

FAX1(data type: typ)

Function

$YC=((A\&B)|(B\&C)|(C\&A))$

$YS=(A^AB^AC)$

Static Power:

When	Static Power [nW]
-	0.364

Port:

Name	Direction
A	INPUT
B	INPUT
C	INPUT
YC	OUTPUT
YS	OUTPUT

Name	Pin Capacitance [pF]	
	Rise	Fall
A	0.122	0.123
B	0.111	0.105
C	0.0787	0.0785

Output Driving Strength

Name	Rise		Fall	
	Strength (sec/F)	Limit (pF)	Strength (sec/F)	Limit (pF)
YC	1.8e+03	0.409	2.21e+03	0.409
YS	1.8e+03	0.411	2.21e+03	0.411

Link To Path

PATH	WHEN
(01A=>01YS)	-

(01A=>10YS)	-
(10A=>01YS)	-
(10A=>10YS)	-
(01A=>01YC)	-
(10A=>10YC)	-
(01B=>01YS)	-
(01B=>10YS)	-
(10B=>01YS)	-
(10B=>10YS)	-
(01B=>01YC)	-
(10B=>10YC)	-
(01C=>01YS)	-
(01C=>10YS)	-
(10C=>01YS)	-
(10C=>10YS)	-
(01C=>01YC)	-
(10C=>10YC)	-

(01A=>01YS)

DELAY [ns]

cl[pF]	0.025	0.05	0.1	0.3	0.6
ts[ns]					
0.06	0.243	0.296	0.39	0.753	1.29
0.18	0.242	0.296	0.391	0.752	1.29
0.42	0.259	0.313	0.407	0.769	1.31
0.6	0.269	0.324	0.421	0.783	1.32
1.2	0.291	0.353	0.457	0.828	1.37

POWER [pJ]

cl[pF]	0.025	0.05	0.1	0.3	0.6
ts[ns]					
0.06	0.00477	-1.17	-1.25	-1.26	-1.27
0.18	-0.0241	-1.17	-1.22	-1.23	-1.24
0.42	-0.399	-0.866	-0.884	-0.905	-0.913
0.6	-0.502	-0.529	-0.556	-0.587	-0.599
1.2	0.792	0.741	0.684	0.61	0.579

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(01A=>10YS)

DELAY [ns]

cl[pF]	0.025	0.05	0.1	0.3	0.6
ts[ns]					
0.06	0.384	0.447	0.562	1.01	1.67
0.18	0.388	0.451	0.567	1.01	1.67
0.42	0.409	0.472	0.588	1.03	1.69
0.6	0.424	0.486	0.601	1.04	1.71
1.2	0.452	0.513	0.628	1.07	1.73

POWER [pJ]

cl[pF]	0.025	0.05	0.1	0.3	0.6
ts[ns]					
0.06	0.0107	0.0107	0.00733	0.00211	-0.000559
0.18	0.0405	0.038	0.0333	0.0269	0.0242
0.42	0.245	0.245	0.235	0.225	0.221
0.6	0.445	0.436	0.422	0.406	0.401
1.2	1.19	1.15	1.12	1.09	1.07

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(10A=>01YS)

DELAY [ns]

cl[pF]	0.025	0.05	0.1	0.3	0.6
ts[ns]					
0.06	0.362	0.411	0.503	0.863	1.4
0.18	0.377	0.428	0.52	0.88	1.42
0.42	0.424	0.473	0.565	0.926	1.47
0.6	0.454	0.504	0.596	0.956	1.5
1.2	0.546	0.595	0.686	1.05	1.59

POWER [pJ]

cl[pF]	0.025	0.05	0.1	0.3	0.6
ts[ns]					
0.06	2.09	2.09	2.08	2.08	2.08
0.18	2.12	2.12	2.11	2.11	2.11
0.42	2.34	2.33	2.32	2.32	2.31
0.6	2.55	2.54	2.52	2.51	2.51
1.2	3.3	3.26	3.24	3.21	3.2

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(10A=>10YS)

DELAY [ns]

cl[pF]	0.025	0.05	0.1	0.3	0.6
ts[ns]					
0.06	0.258	0.322	0.439	0.882	1.54
0.18	0.267	0.331	0.446	0.889	1.55
0.42	0.301	0.365	0.481	0.923	1.58
0.6	0.327	0.394	0.51	0.951	1.61
1.2	0.404	0.477	0.601	1.05	1.71

POWER [pJ]

cl[pF]	0.025	0.05	0.1	0.3	0.6
ts[ns]					
0.06	3.48	3.5	3.5	3.5	3.51
0.18	3.51	3.51	3.51	3.51	3.51
0.42	3.87	3.87	3.86	3.85	3.85
0.6	4.21	4.22	4.2	4.18	4.18
1.2	5.56	5.51	5.47	5.41	5.39

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(01A=>01YC)

DELAY [ns]

cl[pF]	0.025	0.05	0.1	0.3	0.6
ts[ns]					
0.06	0.242	0.296	0.395	0.763	1.3
0.18	0.247	0.301	0.399	0.766	1.31
0.42	0.269	0.323	0.422	0.789	1.33
0.6	0.283	0.338	0.438	0.804	1.34
1.2	0.311	0.371	0.476	0.848	1.39

POWER [pJ]

cl[pF]	0.025	0.05	0.1	0.3	0.6
ts[ns]					
0.06	0.0107	0.0107	0.00733	0.00211	-0.000559
0.18	0.0405	0.038	0.0333	0.0269	0.0242
0.42	0.245	0.245	0.235	0.225	0.221
0.6	0.445	0.436	0.422	0.406	0.401
1.2	1.19	1.15	1.12	1.09	1.07

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(10A=>10YC)

DELAY [ns]

cl[pF]	0.025	0.05	0.1	0.3	0.6
ts[ns]					
0.06	0.269	0.336	0.456	0.901	1.56
0.18	0.285	0.352	0.472	0.916	1.58
0.42	0.334	0.401	0.52	0.962	1.62
0.6	0.368	0.436	0.555	0.998	1.66
1.2	0.469	0.542	0.667	1.11	1.77

POWER [pJ]

cl[pF]	0.025	0.05	0.1	0.3	0.6
ts[ns]					
0.06	2.09	2.09	2.08	2.08	2.08
0.18	2.12	2.12	2.11	2.11	2.11
0.42	2.34	2.33	2.32	2.32	2.31
0.6	2.55	2.54	2.52	2.51	2.51
1.2	3.3	3.26	3.24	3.21	3.2

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(01B=>01YS)

DELAY [ns]

cl[pF]	0.025	0.05	0.1	0.3	0.6
ts[ns]					
0.06	0.242	0.295	0.388	0.75	1.29
0.18	0.251	0.302	0.395	0.756	1.3
0.42	0.269	0.322	0.418	0.78	1.32
0.6	0.279	0.333	0.43	0.794	1.33
1.2	0.301	0.359	0.459	0.832	1.37

POWER [pJ]

cl[pF]	0.025	0.05	0.1	0.3	0.6
ts[ns]					
0.06	-0.335	-0.902	-0.907	-0.913	-0.916
0.18	-0.367	-0.844	-0.853	-0.863	-0.868
0.42	-0.383	-0.541	-0.557	-0.575	-0.582
0.6	-0.225	-0.257	-0.282	-0.308	-0.318
1.2	0.835	0.792	0.739	0.679	0.657

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(01B=>10YS)

DELAY [ns]

cl[pF]	0.025	0.05	0.1	0.3	0.6
ts[ns]					
0.06	0.399	0.462	0.577	1.02	1.68
0.18	0.405	0.469	0.584	1.03	1.69
0.42	0.429	0.491	0.608	1.05	1.71
0.6	0.444	0.506	0.622	1.07	1.73
1.2	0.477	0.539	0.653	1.09	1.76

POWER [pJ]

cl[pF]	0.025	0.05	0.1	0.3	0.6
ts[ns]					
0.06	0.255	0.257	0.255	0.25	0.246
0.18	0.257	0.257	0.253	0.247	0.245
0.42	0.413	0.408	0.402	0.393	0.39
0.6	0.564	0.559	0.547	0.535	0.532
1.2	1.17	1.14	1.11	1.08	1.07

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(10B=>01YS)

DELAY [ns]

cl[pF]	0.025	0.05	0.1	0.3	0.6
ts[ns]					
0.06	0.383	0.433	0.526	0.887	1.43
0.18	0.4	0.452	0.545	0.906	1.45
0.42	0.447	0.498	0.591	0.952	1.49
0.6	0.484	0.533	0.626	0.986	1.53
1.2	0.583	0.632	0.723	1.08	1.62

POWER [pJ]

cl[pF]	0.025	0.05	0.1	0.3	0.6
ts[ns]					
0.06	1.94	1.94	1.94	1.93	1.93
0.18	1.96	1.95	1.95	1.94	1.94
0.42	2.13	2.12	2.11	2.1	2.1
0.6	2.29	2.28	2.27	2.26	2.25
1.2	2.9	2.88	2.86	2.83	2.82

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(10B=>10YS)

DELAY [ns]

cl[pF]	0.025	0.05	0.1	0.3	0.6
ts[ns]					
0.06	0.252	0.316	0.432	0.875	1.54
0.18	0.268	0.331	0.446	0.889	1.55
0.42	0.309	0.373	0.49	0.932	1.59
0.6	0.34	0.405	0.523	0.965	1.63
1.2	0.428	0.499	0.622	1.07	1.73

POWER [pJ]

cl[pF]	0.025	0.05	0.1	0.3	0.6
ts[ns]					
0.06	2.68	2.7	2.7	2.7	2.7
0.18	2.74	2.75	2.75	2.75	2.75
0.42	3.07	3.07	3.06	3.06	3.05
0.6	3.36	3.36	3.35	3.34	3.33
1.2	4.46	4.42	4.4	4.36	4.34

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(01B=>01YC)

DELAY [ns]

cl[pF]	0.025	0.05	0.1	0.3	0.6
ts[ns]					
0.06	0.253	0.307	0.406	0.774	1.31
0.18	0.261	0.315	0.414	0.782	1.32
0.42	0.287	0.343	0.444	0.812	1.35
0.6	0.302	0.358	0.461	0.831	1.37
1.2	0.333	0.393	0.499	0.875	1.42

POWER [pJ]

cl[pF]	0.025	0.05	0.1	0.3	0.6
ts[ns]					
0.06	0.255	0.257	0.255	0.25	0.246
0.18	0.257	0.257	0.253	0.247	0.245
0.42	0.413	0.408	0.402	0.393	0.39
0.6	0.564	0.559	0.547	0.535	0.532
1.2	1.17	1.14	1.11	1.08	1.07

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(10B=>10YC)

DELAY [ns]

cl[pF]	0.025	0.05	0.1	0.3	0.6
ts[ns]					
0.06	0.28	0.348	0.47	0.916	1.58
0.18	0.301	0.37	0.491	0.937	1.6
0.42	0.352	0.423	0.545	0.99	1.65
0.6	0.386	0.458	0.583	1.03	1.69
1.2	0.491	0.566	0.695	1.15	1.81

POWER [pJ]

cl[pF]	0.025	0.05	0.1	0.3	0.6
ts[ns]					
0.06	1.94	1.94	1.94	1.93	1.93
0.18	1.96	1.95	1.95	1.94	1.94
0.42	2.13	2.12	2.11	2.1	2.1
0.6	2.29	2.28	2.27	2.26	2.25
1.2	2.9	2.88	2.86	2.83	2.82

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(01C=>01YS)

DELAY [ns]

cl[pF]	0.025	0.05	0.1	0.3	0.6
ts[ns]					
0.06	0.234	0.286	0.381	0.742	1.28
0.18	0.246	0.298	0.392	0.753	1.29
0.42	0.263	0.317	0.413	0.774	1.31
0.6	0.271	0.327	0.425	0.789	1.33
1.2	0.287	0.346	0.448	0.822	1.36

POWER [pJ]

cl[pF]	0.025	0.05	0.1	0.3	0.6
ts[ns]					
0.06	-0.317	-0.399	-0.403	-0.408	-0.41
0.18	-0.366	-0.369	-0.372	-0.376	-0.378
0.42	-0.132	-0.14	-0.152	-0.161	-0.164
0.6	0.107	0.0904	0.0764	0.0626	0.0585
1.2	1	0.971	0.939	0.907	0.895

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(01C=>10YS)

DELAY [ns]

cl[pF]	0.025	0.05	0.1	0.3	0.6
ts[ns]					
0.06	0.376	0.436	0.549	0.991	1.65
0.18	0.395	0.456	0.569	1.01	1.67
0.42	0.426	0.487	0.6	1.04	1.7
0.6	0.445	0.505	0.619	1.06	1.72
1.2	0.491	0.549	0.662	1.1	1.77

POWER [pJ]

cl[pF]	0.025	0.05	0.1	0.3	0.6
ts[ns]					
0.06	0.47	0.468	0.466	0.465	0.465
0.18	0.494	0.492	0.49	0.488	0.488
0.42	0.632	0.627	0.619	0.613	0.612
0.6	0.766	0.758	0.749	0.739	0.736
1.2	1.31	1.28	1.26	1.23	1.22

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(10C=>01YS)

DELAY [ns]

cl[pF]	0.025	0.05	0.1	0.3	0.6
ts[ns]					
0.06	0.377	0.427	0.519	0.879	1.42
0.18	0.405	0.455	0.548	0.908	1.45
0.42	0.464	0.514	0.607	0.967	1.51
0.6	0.505	0.554	0.646	1.01	1.55
1.2	0.619	0.667	0.759	1.12	1.66

POWER [pJ]

cl[pF]	0.025	0.05	0.1	0.3	0.6
ts[ns]					
0.06	1.64	1.64	1.63	1.62	1.62
0.18	1.67	1.66	1.66	1.65	1.65
0.42	1.84	1.83	1.81	1.8	1.8
0.6	1.98	1.97	1.95	1.94	1.94
1.2	2.52	2.5	2.48	2.45	2.44

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(10C=>10YS)

DELAY [ns]

cl[pF]	0.025	0.05	0.1	0.3	0.6
ts[ns]					
0.06	0.248	0.314	0.432	0.877	1.54
0.18	0.27	0.337	0.455	0.899	1.56
0.42	0.308	0.38	0.501	0.945	1.61
0.6	0.335	0.408	0.532	0.98	1.64
1.2	0.418	0.492	0.622	1.08	1.74

POWER [pJ]

cl[pF]	0.025	0.05	0.1	0.3	0.6
ts[ns]					
0.06	2.1	2.14	2.14	2.14	2.14
0.18	2.18	2.2	2.21	2.2	2.2
0.42	2.49	2.51	2.5	2.49	2.49
0.6	2.7	2.76	2.75	2.74	2.74
1.2	3.7	3.66	3.66	3.63	3.62

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(01C=>01YC)

DELAY [ns]

cl[pF]	0.025	0.05	0.1	0.3	0.6
ts[ns]					
0.06	0.234	0.287	0.387	0.755	1.29
0.18	0.256	0.31	0.409	0.776	1.32
0.42	0.294	0.35	0.45	0.816	1.36
0.6	0.316	0.371	0.473	0.839	1.38
1.2	0.365	0.422	0.527	0.896	1.43

POWER [pJ]

cl[pF]	0.025	0.05	0.1	0.3	0.6
ts[ns]					
0.06	0.47	0.468	0.466	0.465	0.465
0.18	0.494	0.492	0.49	0.488	0.488
0.42	0.632	0.627	0.619	0.613	0.612
0.6	0.766	0.758	0.749	0.739	0.736
1.2	1.31	1.28	1.26	1.23	1.22

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(10C=>10YC)

DELAY [ns]

cl[pF]	0.025	0.05	0.1	0.3	0.6
ts[ns]					
0.06	0.261	0.329	0.451	0.897	1.56
0.18	0.293	0.36	0.481	0.928	1.59
0.42	0.36	0.429	0.55	0.995	1.66
0.6	0.404	0.473	0.595	1.04	1.7
1.2	0.531	0.603	0.727	1.17	1.83

POWER [pJ]

cl[pF]	0.025	0.05	0.1	0.3	0.6
ts[ns]					
0.06	1.64	1.64	1.63	1.62	1.62
0.18	1.67	1.66	1.66	1.65	1.65
0.42	1.84	1.83	1.81	1.8	1.8
0.6	1.98	1.97	1.95	1.94	1.94
1.2	2.52	2.5	2.48	2.45	2.44