gf180mcu_osu_sc_gp9t3v3_TT_25C.ccs Library

Cell Groups
GF180MCU_OSU_SC_GP9T3V3__ADDF_1
GF180MCU_OSU_SC_GP9T3V3__ADDH_1
GF180MCU_OSU_SC_GP9T3V3__AND2_1
GF180MCU_OSU_SC_GP9T3V3__ANT
GF180MCU_OSU_SC_GP9T3V3__AOI21_1
GF180MCU_OSU_SC_GP9T3V3__AOI22_1
GF180MCU_OSU_SC_GP9T3V3__BUF_16
GF180MCU_OSU_SC_GP9T3V3__BUF_1
GF180MCU_OSU_SC_GP9T3V3__BUF_2
GF180MCU_OSU_SC_GP9T3V3__BUF_4
GF180MCU_OSU_SC_GP9T3V3__BUF_8
GF180MCU_OSU_SC_GP9T3V3__CLKBUF_16
GF180MCU_OSU_SC_GP9T3V3__CLKBUF_1
GF180MCU_OSU_SC_GP9T3V3__CLKBUF_2
GF180MCU_OSU_SC_GP9T3V3__CLKBUF_4
GF180MCU_OSU_SC_GP9T3V3__CLKBUF_8
GF180MCU_OSU_SC_GP9T3V3__CLKINV_16
GF180MCU_OSU_SC_GP9T3V3__CLKINV_1
GF180MCU_OSU_SC_GP9T3V3__CLKINV_2
GF180MCU_OSU_SC_GP9T3V3__CLKINV_4
GF180MCU_OSU_SC_GP9T3V3__CLKINV_8
GF180MCU_OSU_SC_GP9T3V3__DECAP_1
GF180MCU_OSU_SC_GP9T3V3__DFFN_1

GF180MCU_OSU_SC_GP9T3V3__DFFSR_1
GF180MCU_OSU_SC_GP9T3V3__DFF_1
GF180MCU_OSU_SC_GP9T3V3__DLATN_1
GF180MCU_OSU_SC_GP9T3V3__DLAT_1
GF180MCU_OSU_SC_GP9T3V3__INV_16
GF180MCU_OSU_SC_GP9T3V3__INV_1
GF180MCU_OSU_SC_GP9T3V3__INV_2
GF180MCU_OSU_SC_GP9T3V3__INV_4
GF180MCU_OSU_SC_GP9T3V3__INV_8
GF180MCU_OSU_SC_GP9T3V3__MUX2_1
GF180MCU_OSU_SC_GP9T3V3__NAND2_1
GF180MCU_OSU_SC_GP9T3V3__NOR2_1
GF180MCU_OSU_SC_GP9T3V3__OAI21_1
GF180MCU_OSU_SC_GP9T3V3__OAI22_1
GF180MCU_OSU_SC_GP9T3V3__OAI31_1
GF180MCU_OSU_SC_GP9T3V3__OR2_1
GF180MCU_OSU_SC_GP9T3V3__TBUF_1
GF180MCU_OSU_SC_GP9T3V3__TIEH
GF180MCU_OSU_SC_GP9T3V3__TIEL
GF180MCU_OSU_SC_GP9T3V3__TINV_1
GF180MCU_OSU_SC_GP9T3V3__XNOR2_1
GF180MCU_OSU_SC_GP9T3V3__XOR2_1

GF180MCU_OSU_SC_GP9T3V3__ADDF_1

Truth Table

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

Footprint

Cell Name	Area
gf180mcu_osu_sc_gp9t3v3__addf_1	88.90000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)	
	A	B	CI	CO	S
gf180mcu_osu_sc_gp9t3v3__addf_1	0.01543	0.01458	0.01139	1.55550	1.54990

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
gf180mcu_osu_sc_gp9t3v3__addf_1	0.00000	0.00434	0.00459

Delay Information

Delay(ns) to CO rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		First	**Mid**	**Last**
gf180mcu_osu_sc_gp9t3v3__addf_1	**A->CO (RR)**	0.20585	0.69708	7.28378
	B->CO (RR)	0.21739	0.80653	7.77863
	CI->CO (RR)	0.19557	0.74488	7.27903

Delay(ns) to CO falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		First	**Mid**	**Last**
gf180mcu_osu_sc_gp9t3v3__addf_1	**A->CO (FF)**	0.23716	0.87562	8.06347
	B->CO (FF)	0.22283	0.98240	8.62006
	CI->CO (FF)	0.18799	0.95206	8.30552

Delay(ns) to S rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		First	**Mid**	**Last**
gf180mcu_osu_sc_gp9t3v3__addf_1	**A->S (-R)**	0.41926	1.03203	8.51167
	B->S (-R)	0.40253	1.16425	9.24794
	CI->S (-R)	0.36765	1.08439	8.80527

Delay(ns) to S falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		First	**Mid**	**Last**
gf180mcu_osu_sc_gp9t3v3__addf_1	**A->S (-F)**	0.24727	1.06331	9.07279
	B->S (-F)	0.29334	1.01143	8.75645
	CI->S (-F)	0.31546	0.93878	8.32990

Power Information

Internal switching power(pJ) to CO rising :

Cell Name	Input	Power(pJ)		
		first	**mid**	**last**
	A	0.04887	0.07881	0.36336
	A	0.08870	0.11843	0.40215
	B	0.04926	0.07537	0.32916
gf180mcu_osu_sc_gp9t3v3__addf_1	B	0.08995	0.11667	0.37056
	CI	0.03598	0.06575	0.28970
	CI	0.07624	0.10309	0.32645

Internal switching power(pJ) to CO falling :

Cell Name	Input	Power(pJ)		
		first	**mid**	**last**
	A	0.10044	0.13016	0.41358
	A	0.06316	0.09294	0.37677
	B	0.08219	0.10990	0.36674
gf180mcu_osu_sc_gp9t3v3__addf_1	B	0.04008	0.06796	0.32534
	CI	0.07598	0.10643	0.33568
	CI	0.04283	0.07338	0.30256

Internal switching power(pJ) to S rising :

Cell Name	Input	Power(pJ)		
		first	**mid**	**last**
	A	0.02661	0.06920	0.48450
	A	0.11051	0.15362	0.56919
	B	0.03099	0.08080	0.53361
gf180mcu_osu_sc_gp9t3v3__addf_1	B	0.11235	0.16171	0.61361
	CI	0.04272	0.09607	0.60594
	CI	0.11962	0.17269	0.68256

Internal switching power(pJ) to S falling :

Cell Name	Input	Power(pJ)		
		first	**mid**	**last**
gf180mcu_osu_sc_gp9t3v3__addf_1	**A**	0.10615	0.15186	0.57105
	A	0.01921	0.06505	0.48432
	B	0.10833	0.15763	0.61211
	B	0.03144	0.08092	0.53586
	CI	0.11726	0.17157	0.68970
	CI	0.05203	0.10650	0.62457

GF180MCU_OSU_SC_GP9T3V3__ADDH_1

Truth Table

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

Footprint

Cell Name	Area
gf180mcu_osu_sc_gp9t3v3__addh_1	54.61000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)	
	A	B	CO	S
gf180mcu_osu_sc_gp9t3v3__addh_1	0.00767	0.00696	1.55628	1.55391

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
gf180mcu_osu_sc_gp9t3v3__addh_1	0.00000	0.00347	0.00375

Delay Information

Delay(ns) to CO rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		First	**Mid**	**Last**
gf180mcu_osu_sc_gp9t3v3__addh_1	**A->CO (RR)**	0.15467	0.64985	7.36131
	B->CO (RR)	0.14895	0.72422	7.77640

Delay(ns) to CO falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		First	**Mid**	**Last**
gf180mcu_osu_sc_gp9t3v3__addh_1	**A->CO (FF)**	0.13279	0.75995	7.69113
	B->CO (FF)	0.12077	0.69463	7.25277

Delay(ns) to S rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			First	**Mid**	**Last**
gf180mcu_osu_sc_gp9t3v3__addh_1	**A->S (RR)**	**!B**	0.16270	0.71195	7.61725
	A->S (FR)	**B**	0.23655	0.87707	8.21953
	B->S (RR)	**!A**	0.13015	0.60051	6.99760
	B->S (FR)	**A**	0.25391	0.83110	7.75826

Delay(ns) to S falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			First	**Mid**	**Last**
gf180mcu_osu_sc_gp9t3v3__addh_1	**A->S (FF)**	**!B**	0.17120	0.73500	7.50836
	A->S (RF)	**B**	0.25202	0.67477	6.32892
	B->S (FF)	**!A**	0.14725	0.81531	8.02549
	B->S (RF)	**A**	0.24585	0.75724	6.87221

Power Information

Internal switching power(pJ) to CO rising :

Cell Name	Input	Power(pJ)		
		first	**mid**	**last**
gf180mcu_osu_sc_gp9t3v3__addh_1	**A**	0.04299	0.08223	0.37997
	A	0.06130	0.10052	0.39863
	B	0.04770	0.08520	0.35632
	B	0.05977	0.09719	0.36746

Internal switching power(pJ) to CO falling :

Cell Name	Input	Power(pJ)		
		first	**mid**	**last**
gf180mcu_osu_sc_gp9t3v3__addh_1	**A**	0.06008	0.10355	0.40474
	A	0.04178	0.08525	0.38649
	B	0.05943	0.09650	0.36742
	B	0.04816	0.08534	0.35620

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

Cell Name	Input	When	Power(pJ)		
			first	**mid**	**last**
gf180mcu_osu_sc_gp9t3v3__addh_1	**A**	**B**	0.06012	0.10349	0.40495
	A	**B**	0.04182	0.08524	0.38660
	A	**!B**	0.02997	0.09205	0.56649
	A	**!B**	0.08213	0.14414	0.61727
	B	**A**	0.05948	0.09652	0.36600
	B	**A**	0.04820	0.08530	0.35454
	B	**!A**	0.02096	0.07904	0.49045
	B	**!A**	0.05887	0.11686	0.52826

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

Cell Name	Input	When	Power(pJ)		
			first	mid	last
gf180mcu_osu_sc_gp9t3v3__addh_1	A	B	0.04297	0.08214	0.37910
	A	B	0.06128	0.10039	0.39736
	A	!B	0.07202	0.13255	0.60704
	A	!B	0.01999	0.08077	0.55544
	B	A	0.04768	0.08502	0.35536
	B	A	0.05975	0.09696	0.36669
	B	!A	0.06365	0.12211	0.53310
	B	!A	0.02516	0.08378	0.49494

GF180MCU_OSU_SC_GP9T3V3__AND2_1

Truth Table

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

Footprint

Cell Name	Area
gf180mcu_osu_sc_gp9t3v3__and2_1	26.03500

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
gf180mcu_osu_sc_gp9t3v3__and2_1	0.00404	0.00402	1.54145

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
gf180mcu_osu_sc_gp9t3v3__and2_1	0.00000	0.00146	0.00208

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		First	**Mid**	**Last**
gf180mcu_osu_sc_gp9t3v3__and2_1	**A->Y (RR)**	0.12091	0.65220	7.58095
	B->Y (RR)	0.12636	0.58968	7.19291

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		First	**Mid**	**Last**
gf180mcu_osu_sc_gp9t3v3__and2_1	**A->Y (FF)**	0.10143	0.62890	7.06633
	B->Y (FF)	0.11392	0.70107	7.52062

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		first	**mid**	**last**
gf180mcu_osu_sc_gp9t3v3__and2_1	A	0.02791	0.10203	0.60303
	A	0.05101	0.12515	0.62618
	B	0.02663	0.10507	0.66141
	B	0.05501	0.13318	0.68909

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		first	**mid**	**last**
gf180mcu_osu_sc_gp9t3v3__and2_1	A	0.04428	0.11969	0.62096
	A	0.02100	0.09659	0.60403
	B	0.05603	0.13811	0.69514
	B	0.02773	0.11005	0.66733

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

Cell Name	When	Power(pJ)		
		first	**mid**	**last**
gf180mcu_osu_sc_gp9t3v3__and2_1	(!B * !Y)	-0.01400	-0.01412	-0.01413
	(!B * !Y)	0.00187	0.00189	0.00178

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

Cell Name	When	Power(pJ)		
		first	**mid**	**last**
gf180mcu_osu_sc_gp9t3v3__and2_1	(!B * !Y)	0.01420	0.01431	0.01418
	(!B * !Y)	-0.00176	-0.00177	-0.00175

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

Cell Name	When	Power(pJ)		
		first	mid	last
gf180mcu_osu_sc_gp9t3v3__and2_1	**(!A * !Y)**	-0.01352	-0.01360	-0.01352
	(!A * !Y)	0.00648	0.00654	0.00646

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

Cell Name	When	Power(pJ)		
		first	mid	last
gf180mcu_osu_sc_gp9t3v3__and2_1	**(!A * !Y)**	0.01358	0.01367	0.01355
	(!A * !Y)	-0.00640	-0.00652	-0.00646

GF180MCU_OSU_SC_GP9T3V3__ANT

Truth Table

INPUT
A
x

Footprint

Cell Name	Area
gf180mcu_osu_sc_gp9t3v3__ant	13.97000

Pin Capacitance Information

Cell Name	Pin Cap(pf)
	A
gf180mcu_osu_sc_gp9t3v3__ant	0.60857

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
gf180mcu_osu_sc_gp9t3v3__ant	0.00000	649761.00000	1299520.00000

Passive Power Information

Passive power(pJ) for A rising :

Cell Name	Power(pJ)		
	first	**mid**	**last**
gf180mcu_osu_sc_gp9t3v3__ant	0.01252	0.46754	3.31665
	0.00936	0.00933	0.00929

Passive power(pJ) for A falling :

Cell Name	Power(pJ)		
	first	**mid**	**last**
gf180mcu_osu_sc_gp9t3v3__ant	11.26950	10.25630	3.82852
	-0.00936	-0.00933	-0.00929

GF180MCU_OSU_SC_GP9T3V3__AOI21_1

Truth Table

INPUT			OUTPUT
A0	A1	B	Y
0	x	0	1
x	x	1	0
1	0	0	1
1	1	x	0

Footprint

Cell Name	Area
gf180mcu_osu_sc_gp9t3v3__aoi21_1	24.76500

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B	Y
gf180mcu_osu_sc_gp9t3v3__aoi21_1	0.00395	0.00398	0.00404	0.78130

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
gf180mcu_osu_sc_gp9t3v3__aoi21_1	0.00000	0.00095	0.00180

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		First	Mid	Last
gf180mcu_osu_sc_gp9t3v3__aoi21_1	A0->Y (FR)	0.12548	0.84857	8.60718
	A1->Y (FR)	0.10104	0.81316	8.52901
	B->Y (FR)	0.09169	1.00457	9.87220

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		First	Mid	Last
gf180mcu_osu_sc_gp9t3v3__aoi21_1	A0->Y (RF)	0.09477	0.58210	6.15213
	A1->Y (RF)	0.08832	0.72225	7.33025
	B->Y (RF)	0.04221	0.47554	5.35620

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		first	**mid**	**last**
gf180mcu_osu_sc_gp9t3v3__aoi21_1	A0	0.04812	0.08538	0.28720
	A0	0.01017	0.04724	0.24915
	A1	0.03578	0.07111	0.25783
	A1	0.00294	0.03791	0.22455
	B	0.02638	0.07697	0.30014
	B	0.00387	0.05445	0.27768

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		first	**mid**	**last**
gf180mcu_osu_sc_gp9t3v3__aoi21_1	A0	0.01571	0.05307	0.23767
	A0	0.05345	0.09097	0.27532
	A1	0.01624	0.05172	0.21206
	A1	0.04889	0.08447	0.24502
	B	0.00014	0.04677	0.25198
	B	0.02266	0.06934	0.27849

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

Cell Name	When	Power(pJ)		
		first	**mid**	**last**
gf180mcu_osu_sc_gp9t3v3__aoi21_1	(A1 * B * !Y)	-0.01313	-0.01339	-0.01331
	(A1 * B * !Y)	0.00659	0.00658	0.00651
	(!A1 * B * !Y)	-0.01352	-0.01358	-0.01352
	(!A1 * B * !Y)	0.00649	0.00654	0.00647
	(!A1 * !B * Y)	-0.01351	-0.01352	-0.01352
	(!A1 * !B * Y)	0.00649	0.00646	0.00646

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

Cell Name	When	Power(pJ)		
		first	mid	last
gf180mcu_osu_sc_gp9t3v3__aoi21_1	(A1 * B * !Y)	0.01337	0.01339	0.01331
	(A1 * B * !Y)	-0.00648	-0.00652	-0.00649
	(!A1 * B * !Y)	0.01367	0.01367	0.01355
	(!A1 * B * !Y)	-0.00639	-0.00652	-0.00647
	(!A1 * !B * Y)	0.01358	0.01366	0.01355
	(!A1 * !B * Y)	-0.00639	-0.00646	-0.00646

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

Cell Name	When	Power(pJ)		
		first	mid	last
gf180mcu_osu_sc_gp9t3v3__aoi21_1	(B * !Y)	-0.01315	-0.01339	-0.01333
	(B * !Y)	0.00656	0.00658	0.00651
	(!A0 * !B * Y)	-0.01399	-0.01412	-0.01413
	(!A0 * !B * Y)	0.00187	0.00188	0.00178

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

Cell Name	When	Power(pJ)		
		first	mid	last
gf180mcu_osu_sc_gp9t3v3__aoi21_1	(B * !Y)	0.01337	0.01339	0.01333
	(B * !Y)	-0.00649	-0.00651	-0.00649
	(!A0 * !B * Y)	0.01424	0.01430	0.01418
	(!A0 * !B * Y)	-0.00176	-0.00177	-0.00175

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

Cell Name	When	Power(pJ)		
		first	mid	last
gf180mcu_osu_sc_gp9t3v3__aoi21_1	(A0 * A1 * !Y)	-0.00461	-0.00456	-0.00451
	(A0 * A1 * !Y)	0.00790	0.00786	0.00780

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

Cell Name	When	Power(pJ)		
		first	**mid**	**last**
gf180mcu_osu_sc_gp9t3v3__aoi21_1	**(A0 * A1 * !Y)**	0.00495	0.00497	0.00463
	(A0 * A1 * !Y)	-0.00734	-0.00745	-0.00779

GF180MCU_OSU_SC_GP9T3V3__AOI22_1

Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	Y
0	x	0	x	1
0	x	1	0	1
x	x	1	1	0
1	0	0	x	1
1	0	1	0	1
1	1	x	x	0

Footprint

Cell Name	Area
gf180mcu_osu_sc_gp9t3v3__aoi22_1	34.29000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	B1	Y
gf180mcu_osu_sc_gp9t3v3__aoi22_1	0.00395	0.00398	0.00404	0.00402	0.77202

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
gf180mcu_osu_sc_gp9t3v3__aoi22_1	0.00000	0.00123	0.00180

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		First	**Mid**	**Last**
gf180mcu_osu_sc_gp9t3v3__aoi22_1	**A0->Y (FR)**	0.17213	0.89100	8.57616
	A1->Y (FR)	0.14831	0.85632	8.49813
	B0->Y (FR)	0.10389	0.98572	9.65346
	B1->Y (FR)	0.12623	1.01964	9.71440

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		First	**Mid**	**Last**
gf180mcu_osu_sc_gp9t3v3__aoi22_1	**A0->Y (RF)**	0.13668	0.63055	6.18231
	A1->Y (RF)	0.12991	0.77413	7.35755
	B0->Y (RF)	0.06829	0.68232	7.25666
	B1->Y (RF)	0.07320	0.54700	6.07316

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		first	**mid**	**last**
gf180mcu_osu_sc_gp9t3v3__aoi22_1	A0	0.05781	0.09406	0.30180
	A0	0.01022	0.04639	0.25415
	A1	0.04575	0.07997	0.27119
	A1	0.00309	0.03698	0.22854
	B0	0.02810	0.06829	0.24370
	B0	0.00430	0.04440	0.21941
	B1	0.03957	0.08293	0.27062
	B1	0.01079	0.05417	0.24150

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		first	**mid**	**last**
gf180mcu_osu_sc_gp9t3v3__aoi22_1	A0	0.03098	0.06975	0.27357
	A0	0.07847	0.11725	0.32086
	A1	0.03154	0.06898	0.24727
	A1	0.07376	0.11141	0.28950
	B0	0.00664	0.04533	0.21440
	B0	0.03044	0.06925	0.24098
	B1	0.00547	0.04572	0.23691
	B1	0.03429	0.07470	0.26575

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

Cell Name	When	Power(pJ)		
		first	mid	last
gf180mcu_osu_sc_gp9t3v3__aoi22_1	(A1 * B0 * B1 * !Y)	-0.01304	-0.01331	-0.01331
	(A1 * B0 * B1 * !Y)	0.00654	0.00658	0.00651
	(!A1 * B0 * B1 * !Y)	-0.01354	-0.01355	-0.01352
	(!A1 * B0 * B1 * !Y)	0.00649	0.00647	0.00646
	(!A1 * B0 * !B1 * Y)	-0.01353	-0.01356	-0.01352
	(!A1 * B0 * !B1 * Y)	0.00650	0.00650	0.00648
	(!A1 * !B0 * Y)	-0.01353	-0.01356	-0.01352
	(!A1 * !B0 * Y)	0.00650	0.00650	0.00648

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

Cell Name	When	Power(pJ)		
		first	mid	last
gf180mcu_osu_sc_gp9t3v3__aoi22_1	(A1 * B0 * B1 * !Y)	0.01333	0.01331	0.01331
	(A1 * B0 * B1 * !Y)	-0.00648	-0.00649	-0.00649
	(!A1 * B0 * B1 * !Y)	0.01358	0.01367	0.01355
	(!A1 * B0 * B1 * !Y)	-0.00639	-0.00647	-0.00646
	(!A1 * B0 * !B1 * Y)	0.01358	0.01366	0.01355
	(!A1 * B0 * !B1 * Y)	-0.00641	-0.00650	-0.00647
	(!A1 * !B0 * Y)	0.01358	0.01366	0.01355
	(!A1 * !B0 * Y)	-0.00641	-0.00650	-0.00647

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

Cell Name	When	Power(pJ)		
		first	mid	last
gf180mcu_osu_sc_gp9t3v3__aoi22_1	(B0 * B1 * !Y)	-0.01310	-0.01337	-0.01331
	(B0 * B1 * !Y)	0.00654	0.00658	0.00651
	(!A0 * B0 * !B1 * Y)	-0.01410	-0.01412	-0.01413
	(!A0 * B0 * !B1 * Y)	0.00190	0.00188	0.00178
	(!A0 * !B0 * Y)	-0.01410	-0.01412	-0.01413
	(!A0 * !B0 * Y)	0.00190	0.00188	0.00178

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

Cell Name	When	Power(pJ)		
		first	mid	last
gf180mcu_osu_sc_gp9t3v3__aoi22_1	(B0 * B1 * !Y)	0.01335	0.01337	0.01331
	(B0 * B1 * !Y)	-0.00649	-0.00650	-0.00649
	(!A0 * B0 * !B1 * Y)	0.01422	0.01430	0.01418
	(!A0 * B0 * !B1 * Y)	-0.00175	-0.00177	-0.00175
	(!A0 * !B0 * Y)	0.01422	0.01430	0.01418
	(!A0 * !B0 * Y)	-0.00175	-0.00177	-0.00175

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

Cell Name	When	Power(pJ)		
		first	mid	last
gf180mcu_osu_sc_gp9t3v3__aoi22_1	(A0 * A1 * !Y)	-0.00456	-0.00456	-0.00451
	(A0 * A1 * !Y)	0.00780	0.00786	0.00780
	(!A1 * !B1 * Y)	-0.01407	-0.01403	-0.01414
	(!A1 * !B1 * Y)	0.00189	0.00187	0.00178
	(!A0 * A1 * !B1 * Y)	-0.01407	-0.01403	-0.01414
	(!A0 * A1 * !B1 * Y)	0.00189	0.00187	0.00178

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

Cell Name	When	Power(pJ)		
		first	mid	last
gf180mcu_osu_sc_gp9t3v3__aoi22_1	(A0 * A1 * !Y)	0.00509	0.00511	0.00465
	(A0 * A1 * !Y)	-0.00719	-0.00730	-0.00777
	(!A1 * !B1 * Y)	0.01422	0.01428	0.01417
	(!A1 * !B1 * Y)	-0.00178	-0.00177	-0.00175
	(!A0 * A1 * !B1 * Y)	0.01421	0.01428	0.01417
	(!A0 * A1 * !B1 * Y)	-0.00178	-0.00177	-0.00175

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		first	mid	last
gf180mcu_osu_sc_gp9t3v3__aoi22_1	(A0 * A1 * !Y)	-0.00453	-0.00456	-0.00451
	(A0 * A1 * !Y)	0.00782	0.00785	0.00780
	(!A1 * !B0 * Y)	-0.01351	-0.01359	-0.01352
	(!A1 * !B0 * Y)	0.00645	0.00651	0.00644
	(!A0 * A1 * !B0 * Y)	-0.01351	-0.01359	-0.01352
	(!A0 * A1 * !B0 * Y)	0.00645	0.00651	0.00644

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		first	mid	last
gf180mcu_osu_sc_gp9t3v3__aoi22_1	(A0 * A1 * !Y)	0.00509	0.00510	0.00465
	(A0 * A1 * !Y)	-0.00718	-0.00730	-0.00777
	(!A1 * !B0 * Y)	0.01355	0.01364	0.01354
	(!A1 * !B0 * Y)	-0.00642	-0.00651	-0.00644
	(!A0 * A1 * !B0 * Y)	0.01355	0.01364	0.01354
	(!A0 * A1 * !B0 * Y)	-0.00642	-0.00651	-0.00644

GF180MCU_OSU_SC_GP9T3V3__BUF_16

Truth Table

INPUT	OUTPUT
A	Y
0	0
1	1

Footprint

Cell Name	Area
gf180mcu_osu_sc_gp9t3v3__buf_16	100.33000

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
gf180mcu_osu_sc_gp9t3v3__buf_16	0.00404	24.76612

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
gf180mcu_osu_sc_gp9t3v3__buf_16	0.00000	0.01267	0.01499

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		First	**Mid**	**Last**
gf180mcu_osu_sc_gp9t3v3__buf_16	**A->Y (RR)**	0.33754	0.79801	7.91918

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		First	**Mid**	**Last**
gf180mcu_osu_sc_gp9t3v3__buf_16	**A->Y (FF)**	0.36409	0.97238	8.58056

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		first	**mid**	**last**
gf180mcu_osu_sc_gp9t3v3__buf_16	**A**	0.71260	0.73169	1.14194
	A	0.73444	0.75355	1.14522

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		first	**mid**	**last**
gf180mcu_osu_sc_gp9t3v3__buf_16	**A**	0.78739	0.77302	1.12733
	A	0.76551	0.75116	1.10816

GF180MCU_OSU_SC_GP9T3V3__BUF_1

Truth Table

INPUT	OUTPUT
A	Y
0	0
1	1

Footprint

Cell Name	Area
gf180mcu_osu_sc_gp9t3v3__buf_1	20.32000

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
gf180mcu_osu_sc_gp9t3v3__buf_1	0.00405	1.55566

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
gf180mcu_osu_sc_gp9t3v3__buf_1	0.00000	0.00149	0.00149

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		First	**Mid**	**Last**
gf180mcu_osu_sc_gp9t3v3__buf_1	**A->Y (RR)**	0.08426	0.50781	6.93348

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		First	**Mid**	**Last**
gf180mcu_osu_sc_gp9t3v3__buf_1	**A->Y (FF)**	0.09264	0.66519	7.59185

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		first	mid	last
gf180mcu_osu_sc_gp9t3v3__buf_1	**A**	0.02013	0.10920	0.69832
	A	0.04198	0.13108	0.72018

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		first	mid	last
gf180mcu_osu_sc_gp9t3v3__buf_1	**A**	0.04221	0.13434	0.72073
	A	0.02040	0.11249	0.69903

GF180MCU_OSU_SC_GP9T3V3__BUF_2

Truth Table

INPUT	OUTPUT
A	Y
0	0
1	1

Footprint

Cell Name	Area
gf180mcu_osu_sc_gp9t3v3__buf_2	24.76500

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
gf180mcu_osu_sc_gp9t3v3__buf_2	0.00404	3.10294

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
gf180mcu_osu_sc_gp9t3v3__buf_2	0.00000	0.00224	0.00239

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		First	**Mid**	**Last**
gf180mcu_osu_sc_gp9t3v3__buf_2	**A->Y (RR)**	0.10055	0.47431	7.01509

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		First	**Mid**	**Last**
gf180mcu_osu_sc_gp9t3v3__buf_2	**A->Y (FF)**	0.10963	0.64043	7.67275

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		first	**mid**	**last**
gf180mcu_osu_sc_gp9t3v3__buf_2	**A**	0.04221	0.13201	0.71774
	A	0.06414	0.15388	0.73960

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		first	**mid**	**last**
gf180mcu_osu_sc_gp9t3v3__buf_2	**A**	0.06406	0.15612	0.73814
	A	0.04206	0.13431	0.71640

GF180MCU_OSU_SC_GP9T3V3__BUF_4

Truth Table

INPUT	OUTPUT
A	Y
0	0
1	1

Footprint

Cell Name	Area
gf180mcu_osu_sc_gp9t3v3__buf_4	36.19500

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
gf180mcu_osu_sc_gp9t3v3__buf_4	0.00404	6.15334

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
gf180mcu_osu_sc_gp9t3v3__buf_4	0.00000	0.00373	0.00419

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		First	**Mid**	**Last**
gf180mcu_osu_sc_gp9t3v3__buf_4	**A->Y (RR)**	0.13464	0.50150	7.13109

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		First	**Mid**	**Last**
gf180mcu_osu_sc_gp9t3v3__buf_4	**A->Y (FF)**	0.14592	0.67397	7.79491

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		first	**mid**	**last**
gf180mcu_osu_sc_gp9t3v3__buf_4	**A**	0.09366	0.18701	0.76428
	A	0.11572	0.20872	0.78373

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		first	**mid**	**last**
gf180mcu_osu_sc_gp9t3v3__buf_4	**A**	0.11749	0.21027	0.78112
	A	0.09536	0.18852	0.76264

GF180MCU_OSU_SC_GP9T3V3__BUF_8

Truth Table

INPUT	OUTPUT
A	Y
0	0
1	1

Footprint

Cell Name	Area
gf180mcu_osu_sc_gp9t3v3__buf_8	57.46750

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
gf180mcu_osu_sc_gp9t3v3__buf_8	0.00404	12.28096

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
gf180mcu_osu_sc_gp9t3v3__buf_8	0.00000	0.00671	0.00779

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		First	**Mid**	**Last**
gf180mcu_osu_sc_gp9t3v3__buf_8	**A->Y (RR)**	0.20308	0.60328	7.39814

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		First	**Mid**	**Last**
gf180mcu_osu_sc_gp9t3v3__buf_8	**A->Y (FF)**	0.21924	0.78004	8.06740

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		first	**mid**	**last**
gf180mcu_osu_sc_gp9t3v3__buf_8	**A**	0.23904	0.33421	0.87603
	A	0.26101	0.35591	0.88880

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		first	**mid**	**last**
gf180mcu_osu_sc_gp9t3v3__buf_8	**A**	0.27241	0.35418	0.87944
	A	0.25041	0.33282	0.86069

GF180MCU_OSU_SC_GP9T3V3__CLKBUF_16

Truth Table

INPUT	OUTPUT
A	Y
0	0
1	1

Footprint

Cell Name	Area
gf180mcu_osu_sc_gp9t3v3__clkbuf_16	100.33000

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
gf180mcu_osu_sc_gp9t3v3__clkbuf_16	0.00404	24.76612

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
gf180mcu_osu_sc_gp9t3v3__clkbuf_16	0.00000	0.01267	0.01499

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		First	**Mid**	**Last**
gf180mcu_osu_sc_gp9t3v3__clkbuf_16	**A->Y (RR)**	0.33754	0.79801	7.91918

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		First	**Mid**	**Last**
gf180mcu_osu_sc_gp9t3v3__clkbuf_16	**A->Y (FF)**	0.36409	0.97238	8.58056

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		first	**mid**	**last**
gf180mcu_osu_sc_gp9t3v3__clkbuf_16	**A**	0.71260	0.73169	1.14194
	A	0.73444	0.75355	1.14522

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		first	**mid**	**last**
gf180mcu_osu_sc_gp9t3v3__clkbuf_16	**A**	0.78739	0.77302	1.12733
	A	0.76551	0.75116	1.10816

GF180MCU_OSU_SC_GP9T3V3__CLKBUF_1

Truth Table

INPUT	OUTPUT
A	Y
0	0
1	1

Footprint

Cell Name	Area
gf180mcu_osu_sc_gp9t3v3__clkbuf_1	20.32000

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
gf180mcu_osu_sc_gp9t3v3__clkbuf_1	0.00405	1.55566

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
gf180mcu_osu_sc_gp9t3v3__clkbuf_1	0.00000	0.00149	0.00149

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		First	**Mid**	**Last**
gf180mcu_osu_sc_gp9t3v3__clkbuf_1	**A->Y (RR)**	0.08426	0.50781	6.93348

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		First	**Mid**	**Last**
gf180mcu_osu_sc_gp9t3v3__clkbuf_1	**A->Y (FF)**	0.09264	0.66519	7.59185

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		first	**mid**	**last**
gf180mcu_osu_sc_gp9t3v3__clkbuf_1	**A**	0.02013	0.10920	0.69832
	A	0.04198	0.13108	0.72018

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		first	**mid**	**last**
gf180mcu_osu_sc_gp9t3v3__clkbuf_1	**A**	0.04221	0.13434	0.72073
	A	0.02040	0.11249	0.69903

GF180MCU_OSU_SC_GP9T3V3__CLKBUF_2

Truth Table

INPUT	OUTPUT
A	**Y**
0	**0**
1	**1**

Footprint

Cell Name	Area
gf180mcu_osu_sc_gp9t3v3__clkbuf_2	24.76500

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	**Y**
gf180mcu_osu_sc_gp9t3v3__clkbuf_2	0.00404	3.10294

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
gf180mcu_osu_sc_gp9t3v3__clkbuf_2	0.00000	0.00224	0.00239

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		First	**Mid**	**Last**
gf180mcu_osu_sc_gp9t3v3__clkbuf_2	**A->Y (RR)**	0.10055	0.47431	7.01509

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		First	**Mid**	**Last**
gf180mcu_osu_sc_gp9t3v3__clkbuf_2	**A->Y (FF)**	0.10963	0.64043	7.67275

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		first	**mid**	**last**
gf180mcu_osu_sc_gp9t3v3__clkbuf_2	**A**	0.04221	0.13201	0.71774
	A	0.06414	0.15388	0.73960

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		first	**mid**	**last**
gf180mcu_osu_sc_gp9t3v3__clkbuf_2	**A**	0.06406	0.15612	0.73814
	A	0.04206	0.13431	0.71640

GF180MCU_OSU_SC_GP9T3V3__CLKBUF_4

Truth Table

INPUT	OUTPUT
A	**Y**
0	**0**
1	**1**

Footprint

Cell Name	Area
gf180mcu_osu_sc_gp9t3v3__clkbuf_4	36.19500

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	**Y**
gf180mcu_osu_sc_gp9t3v3__clkbuf_4	0.00404	6.15334

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
gf180mcu_osu_sc_gp9t3v3__clkbuf_4	0.00000	0.00373	0.00419

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		First	**Mid**	**Last**
gf180mcu_osu_sc_gp9t3v3__clkbuf_4	**A->Y (RR)**	0.13464	0.50150	7.13109

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		First	**Mid**	**Last**
gf180mcu_osu_sc_gp9t3v3__clkbuf_4	**A->Y (FF)**	0.14592	0.67397	7.79491

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		first	**mid**	**last**
gf180mcu_osu_sc_gp9t3v3__clkbuf_4	**A**	0.09366	0.18701	0.76428
	A	0.11572	0.20872	0.78373

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		first	**mid**	**last**
gf180mcu_osu_sc_gp9t3v3__clkbuf_4	**A**	0.11749	0.21027	0.78112
	A	0.09536	0.18852	0.76264

GF180MCU_OSU_SC_GP9T3V3__CLKBUF_8

Truth Table

INPUT	OUTPUT
A	**Y**
0	**0**
1	**1**

Footprint

Cell Name	Area
gf180mcu_osu_sc_gp9t3v3__clkbuf_8	57.46750

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	**Y**
gf180mcu_osu_sc_gp9t3v3__clkbuf_8	0.00404	12.28096

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
gf180mcu_osu_sc_gp9t3v3__clkbuf_8	0.00000	0.00671	0.00779

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		First	**Mid**	**Last**
gf180mcu_osu_sc_gp9t3v3__clkbuf_8	**A->Y (RR)**	0.20308	0.60328	7.39814

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		First	**Mid**	**Last**
gf180mcu_osu_sc_gp9t3v3__clkbuf_8	**A->Y (FF)**	0.21924	0.78004	8.06740

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		first	**mid**	**last**
gf180mcu_osu_sc_gp9t3v3__clkbuf_8	**A**	0.23904	0.33421	0.87603
	A	0.26101	0.35591	0.88880

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		first	**mid**	**last**
gf180mcu_osu_sc_gp9t3v3__clkbuf_8	**A**	0.27241	0.35418	0.87944
	A	0.25041	0.33282	0.86069

GF180MCU_OSU_SC_GP9T3V3__CLKINV_16

Truth Table

INPUT	OUTPUT
A	Y
0	1
1	0

Footprint

Cell Name	Area
gf180mcu_osu_sc_gp9t3v3__clkinv_16	95.25000

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
gf180mcu_osu_sc_gp9t3v3__clkinv_16	0.06466	23.87902

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
gf180mcu_osu_sc_gp9t3v3__clkinv_16	0.00000	0.01192	0.01439

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		First	**Mid**	**Last**
gf180mcu_osu_sc_gp9t3v3__clkinv_16	**A->Y (FR)**	0.03956	0.49678	9.96266

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		First	**Mid**	**Last**
gf180mcu_osu_sc_gp9t3v3__clkinv_16	**A->Y (RF)**	0.03092	0.29391	8.47767

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		first	**mid**	**last**
gf180mcu_osu_sc_gp9t3v3__clkinv_16	**A**	0.35769	1.48564	4.08773
	A	0.00871	1.13458	3.73679

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		first	**mid**	**last**
gf180mcu_osu_sc_gp9t3v3__clkinv_16	**A**	0.00391	1.07026	3.39416
	A	0.35279	1.42160	3.74749

GF180MCU_OSU_SC_GP9T3V3__CLKINV_1

Truth Table

INPUT	OUTPUT
A	Y
0	1
1	0

Footprint

Cell Name	Area
gf180mcu_osu_sc_gp9t3v3__clkinv_1	13.97000

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
gf180mcu_osu_sc_gp9t3v3__clkinv_1	0.00404	1.50748

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
gf180mcu_osu_sc_gp9t3v3__clkinv_1	0.00000	0.00075	0.00090

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		First	**Mid**	**Last**
gf180mcu_osu_sc_gp9t3v3__clkinv_1	**A->Y (FR)**	0.04498	0.84197	10.02570

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		First	**Mid**	**Last**
gf180mcu_osu_sc_gp9t3v3__clkinv_1	**A->Y (RF)**	0.03639	0.64312	8.53517

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		first	**mid**	**last**
gf180mcu_osu_sc_gp9t3v3__clkinv_1	**A**	0.02226	0.07404	0.25366
	A	0.00038	0.05208	0.23179

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		first	**mid**	**last**
gf180mcu_osu_sc_gp9t3v3__clkinv_1	**A**	-0.00053	0.04771	0.21052
	A	0.02128	0.06976	0.23249

GF180MCU_OSU_SC_GP9T3V3__CLKINV_2

Truth Table

INPUT	OUTPUT
A	Y
0	1
1	0

Footprint

Cell Name	Area
gf180mcu_osu_sc_gp9t3v3__clkinv_2	20.32000

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
gf180mcu_osu_sc_gp9t3v3__clkinv_2	0.00808	2.98498

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
gf180mcu_osu_sc_gp9t3v3__clkinv_2	0.00000	0.00149	0.00180

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		First	**Mid**	**Last**
gf180mcu_osu_sc_gp9t3v3__clkinv_2	**A->Y (FR)**	0.04172	0.72858	9.96233

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		First	**Mid**	**Last**
gf180mcu_osu_sc_gp9t3v3__clkinv_2	**A->Y (RF)**	0.03307	0.52906	8.47738

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		first	**mid**	**last**
gf180mcu_osu_sc_gp9t3v3__clkinv_2	**A**	0.04475	0.15897	0.51097
	A	0.00091	0.11480	0.46711

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		first	**mid**	**last**
gf180mcu_osu_sc_gp9t3v3__clkinv_2	**A**	-0.00109	0.10609	0.42288
	A	0.04270	0.15004	0.46704

GF180MCU_OSU_SC_GP9T3V3__CLKINV_4

Truth Table

INPUT	OUTPUT
A	Y
0	1
1	0

Footprint

Cell Name	Area
gf180mcu_osu_sc_gp9t3v3__clkinv_4	30.48000

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
gf180mcu_osu_sc_gp9t3v3__clkinv_4	0.01616	5.97048

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
gf180mcu_osu_sc_gp9t3v3__clkinv_4	0.00000	0.00298	0.00360

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		First	**Mid**	**Last**
gf180mcu_osu_sc_gp9t3v3__clkinv_4	**A->Y (FR)**	0.04000	0.63574	9.96289

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		First	**Mid**	**Last**
gf180mcu_osu_sc_gp9t3v3__clkinv_4	**A->Y (RF)**	0.03137	0.43650	8.47788

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		first	**mid**	**last**
gf180mcu_osu_sc_gp9t3v3__clkinv_4	**A**	0.08959	0.33578	1.02191
	A	0.00205	0.24768	0.93418

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		first	**mid**	**last**
gf180mcu_osu_sc_gp9t3v3__clkinv_4	**A**	-0.00200	0.23109	0.84572
	A	0.08550	0.31888	0.93405

GF180MCU_OSU_SC_GP9T3V3__CLKINV_8

Truth Table

INPUT	OUTPUT
A	Y
0	1
1	0

Footprint

Cell Name	Area
gf180mcu_osu_sc_gp9t3v3__clkinv_8	52.07000

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
gf180mcu_osu_sc_gp9t3v3__clkinv_8	0.03232	11.94140

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
gf180mcu_osu_sc_gp9t3v3__clkinv_8	0.00000	0.00596	0.00720

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		First	Mid	Last
gf180mcu_osu_sc_gp9t3v3__clkinv_8	**A->Y (FR)**	0.03912	0.55929	9.96313

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		First	Mid	Last
gf180mcu_osu_sc_gp9t3v3__clkinv_8	**A->Y (RF)**	0.03045	0.35837	8.47809

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		first	**mid**	**last**
gf180mcu_osu_sc_gp9t3v3__clkinv_8	**A**	0.17894	0.70851	2.04380
	A	0.00445	0.53241	1.86833

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		first	**mid**	**last**
gf180mcu_osu_sc_gp9t3v3__clkinv_8	**A**	-0.00375	0.49690	1.69140
	A	0.17077	0.67287	1.86807

GF180MCU_OSU_SC_GP9T3V3__DECAP_1

Footprint

Cell Name	Area
gf180mcu_osu_sc_gp9t3v3__decap_1	13.97000

Pin Capacitance Information
Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
gf180mcu_osu_sc_gp9t3v3__decap_1	0.00000	0.00000	0.00000

GF180MCU_OSU_SC_GP9T3V3__DFFN_1

Truth Table

INPUT		OUTPUT	
D	CLK	Q	QN
0	F	0	1
1	F	1	0
x	x	IQ	IQN

Footprint

Cell Name	Area
gf180mcu_osu_sc_gp9t3v3__dffn_1	98.42500

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)	
	D	CLK	Q	QN
gf180mcu_osu_sc_gp9t3v3__dffn_1	0.00393	0.00405	1.55346	1.56080

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
gf180mcu_osu_sc_gp9t3v3__dffn_1	0.00000	0.00670	0.00720

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		First	**Mid**	**Last**
gf180mcu_osu_sc_gp9t3v3__dffn_1	**CLK->Q (FR)**	0.36265	1.51904	17.95310
	QN->Q (FR)	0.04498	0.85011	10.22050

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		First	**Mid**	**Last**
gf180mcu_osu_sc_gp9t3v3__dffn_1	**CLK->Q (FF)**	0.44375	1.57085	17.66500
	QN->Q (RF)	0.03639	0.65089	8.70942

Delay(ns) to QN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		First	**Mid**	**Last**
gf180mcu_osu_sc_gp9t3v3__dffn_1	**CLK->QN (FR)**	0.40891	1.04648	8.44575

Delay(ns) to QN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		First	**Mid**	**Last**
gf180mcu_osu_sc_gp9t3v3__dffn_1	**CLK->QN (FF)**	0.32445	0.93879	7.71483

Constraint Information

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			first	mid	last
gf180mcu_osu_sc_gp9t3v3__dffn_1	hold	CLK (F)	-0.01800	0.13413	2.01011
	setup	CLK (F)	0.02066	-0.14062	-2.02848

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			first	mid	last
gf180mcu_osu_sc_gp9t3v3__dffn_1	hold	CLK (F)	-0.13072	-0.17523	-0.85072
	setup	CLK (F)	0.14055	0.19037	0.87879

Constraints(ns) for CLK rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			first	mid	last
gf180mcu_osu_sc_gp9t3v3__dffn_1	min_pulse_width	CLK ()	0.16309	1.45630	16.50020
	min_pulse_width	CLK ()	0.17345	1.45630	16.50020

Constraints(ns) for CLK falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			first	mid	last
gf180mcu_osu_sc_gp9t3v3__dffn_1	min_pulse_width	CLK ()	0.18123	1.45630	16.50020
	min_pulse_width	CLK ()	0.19937	1.45630	16.50020

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)		
		first	mid	last
gf180mcu_osu_sc_gp9t3v3__dffn_1	CLK	0.08873	0.14461	0.56027
	CLK	0.07771	0.13398	0.55157

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)		
		first	mid	last
gf180mcu_osu_sc_gp9t3v3__dffn_1	CLK	0.09067	0.14336	0.54613
	CLK	0.07973	0.13217	0.53465

Internal switching power(pJ) to QN rising :

Cell Name	Input	Power(pJ)		
		first	mid	last
gf180mcu_osu_sc_gp9t3v3__dffn_1	CLK	0.09068	0.14334	0.54412
	CLK	0.07974	0.13214	0.53285

Internal switching power(pJ) to QN falling :

Cell Name	Input	Power(pJ)		
		first	mid	last
gf180mcu_osu_sc_gp9t3v3__dffn_1	CLK	0.08864	0.14452	0.55546
	CLK	0.07763	0.13355	0.54614

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

Cell Name	When	Power(pJ)		
		first	mid	last
gf180mcu_osu_sc_gp9t3v3__dffn_1	(CLK * Q * !QN) + (CLK * !Q * QN)	0.05987	0.13585	0.71350
	(CLK * Q * !QN) + (CLK * !Q * QN)	0.08137	0.15740	0.73486
	!CLK	-0.01340	-0.01346	-0.01345
	!CLK	0.00655	0.00649	0.00648

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

Cell Name	When	Power(pJ)		
		first	mid	last
gf180mcu_osu_sc_gp9t3v3__dffn_1	(CLK * Q * !QN) + (CLK * !Q * QN)	0.09188	0.16881	0.74738
	(CLK * Q * !QN) + (CLK * !Q * QN)	0.07038	0.14734	0.72595
	!CLK	0.01361	0.01361	0.01345
	!CLK	-0.00644	-0.00649	-0.00648

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

Cell Name	When	Power(pJ)		
		first	mid	last
gf180mcu_osu_sc_gp9t3v3__dffn_1	(D * Q * !QN)	0.04584	0.13712	0.76361
	(D * Q * !QN)	0.06788	0.15926	0.78563
	(D * !Q * QN)	0.12295	0.21583	0.83745
	(D * !Q * QN)	0.14587	0.23883	0.86039
	(!D * Q * !QN)	0.11967	0.21824	0.88437
	(!D * Q * !QN)	0.14107	0.23984	0.90580
	(!D * !Q * QN)	0.05254	0.14492	0.77131
	(!D * !Q * QN)	0.07438	0.16690	0.79321

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

Cell Name	When	Power(pJ)		
		first	mid	last
gf180mcu_osu_sc_gp9t3v3__dffn_1	(D * Q * !QN)	0.06828	0.16271	0.78851
	(D * Q * !QN)	0.04616	0.14053	0.76653
	(!D * !Q * QN)	0.07493	0.16778	0.79394
	(!D * !Q * QN)	0.05294	0.14588	0.77210

GF180MCU_OSU_SC_GP9T3V3__DFFSR_1

Truth Table

INPUT				OUTPUT	
D	RN	SN	CLK	Q	QN
0	1	1	R	0	1
1	1	1	R	1	0
x	0	x	x	0	1
x	1	0	x	1	0
x	1	1	x	IQ	IQN

Footprint

Cell Name	Area
gf180mcu_osu_sc_gp9t3v3__dffsr_1	130.17500

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)	
	D	RN	SN	CLK	Q	QN
gf180mcu_osu_sc_gp9t3v3__dffsr_1	0.00393	0.00405	0.00802	0.01039	1.54794	1.55977

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
gf180mcu_osu_sc_gp9t3v3__dffsr_1	0.00000	0.00708	0.00862

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		First	Mid	Last
gf180mcu_osu_sc_gp9t3v3__dffsr_1	**CLK->Q (RR)**	0.39152	1.36998	16.45910
	QN->Q (FR)	0.04498	0.84959	10.19690
	RN->Q (RR)	0.28691	1.26458	16.47060
	SN->Q (FR)	0.26970	1.36489	17.32570

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		First	Mid	Last
gf180mcu_osu_sc_gp9t3v3__dffsr_1	**CLK->Q (RF)**	0.44884	1.38495	16.25880
	QN->Q (RF)	0.03639	0.65027	8.68858
	RN->Q (FF)	0.25479	1.37924	17.40650

Delay(ns) to QN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		First	Mid	Last
gf180mcu_osu_sc_gp9t3v3__dffsr_1	**CLK->QN (RR)**	0.41343	0.86099	7.09321
	RN->QN (FR)	0.21980	0.85598	8.24101

Delay(ns) to QN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		First	Mid	Last
gf180mcu_osu_sc_gp9t3v3__dffsr_1	**CLK->QN (RF)**	0.34947	0.79178	6.28325
	RN->QN (RF)	0.24559	0.68577	6.29256
	SN->QN (FF)	0.22847	0.78577	7.14017

Constraint Information

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			first	mid	last
gf180mcu_osu_sc_gp9t3v3__dffsr_1	hold	CLK (R)	-0.15713	-0.13413	0.53527
	setup	CLK (R)	0.17498	0.14711	0.18893

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			first	mid	last
gf180mcu_osu_sc_gp9t3v3__dffsr_1	hold	CLK (R)	-0.24669	-0.61871	-5.11295
	setup	CLK (R)	0.25033	0.62304	5.14531

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			first	mid	last
gf180mcu_osu_sc_gp9t3v3__dffsr_1	hold	CLK (R)	-0.15713	-0.13413	0.53527
	setup	CLK (R)	0.17498	0.14711	0.18893

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			first	mid	last
gf180mcu_osu_sc_gp9t3v3__dffsr_1	hold	CLK (R)	-0.24669	-0.61871	-5.11295
	setup	CLK (R)	0.25033	0.62304	5.14531

Constraints(ns) for RN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			first	mid	last
gf180mcu_osu_sc_gp9t3v3__dffsr_1	recovery	CLK (R)	0.05216	0.04859	1.06403
	removal	CLK (R)	-0.01563	-0.01947	-0.04919
	hold	SN (R)	-0.21059	-0.41752	-0.83190
	setup	SN (R)	0.24963	0.43483	3.52980

Constraints(ns) for RN rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			first	mid	last
gf180mcu_osu_sc_gp9t3v3__dffsr_1	recovery	CLK (R)	0.05216	0.04859	1.06403
	removal	CLK (R)	-0.01563	-0.01947	-0.04919
	hold	SN (R)	-0.21059	-0.41752	-0.83192
	hold	SN (R)	-0.21242	-0.41968	-0.83190
	setup	SN (R)	0.24529	0.43050	3.43412
	setup	SN (R)	0.24963	0.43483	3.52980

Constraints(ns) for RN falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			first	mid	last
gf180mcu_osu_sc_gp9t3v3__dffsr_1	min_pulse_width	RN ()	0.16568	1.45630	16.50020
	min_pulse_width	RN ()	0.16568	1.45630	16.50020

Constraints(ns) for SN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			first	mid	last
gf180mcu_osu_sc_gp9t3v3__dffsr_1	recovery	CLK (R)	0.04145	0.09302	2.68444
	removal	CLK (R)	-0.03673	-0.08870	-0.61887

Constraints(ns) for SN rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			first	mid	last
gf180mcu_osu_sc_gp9t3v3__dffsr_1	recovery	CLK (R)	0.04145	0.09302	2.68444
	removal	CLK (R)	-0.03673	-0.08870	-0.61887

Constraints(ns) for SN falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			first	mid	last
gf180mcu_osu_sc_gp9t3v3__dffsr_1	min_pulse_width	SN ()	0.22788	1.45630	16.50020
	min_pulse_width	SN ()	0.23047	1.45630	16.50020

Constraints(ns) for CLK rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			first	mid	last
gf180mcu_osu_sc_gp9t3v3__dffsr_1	min_pulse_width	CLK ()	0.19678	1.45630	16.50020
	min_pulse_width	CLK ()	0.22010	1.45630	16.50020

Constraints(ns) for CLK falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			first	mid	last
gf180mcu_osu_sc_gp9t3v3__dffsr_1	min_pulse_width	CLK ()	0.24083	1.45630	16.50020
	min_pulse_width	CLK ()	0.21233	1.45630	16.50020

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)		
		first	mid	last
gf180mcu_osu_sc_gp9t3v3__dffsr_1	CLK	0.06467	0.13937	0.65038
	CLK	0.08972	0.16530	0.67768
	RN	0.10502	0.15566	0.55926
	RN	0.12178	0.17262	0.57788
	SN	0.09520	0.15571	0.62143
	SN	0.07891	0.14051	0.60626

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)		
		first	mid	last
gf180mcu_osu_sc_gp9t3v3__dffsr_1	CLK	0.06770	0.11451	0.50899
	CLK	0.09222	0.13887	0.53172
	RN	0.11637	0.17244	0.59300
	RN	0.09957	0.15467	0.57629

Internal switching power(pJ) to QN rising :

Cell Name	Input	Power(pJ)		
		first	mid	last
gf180mcu_osu_sc_gp9t3v3__dffsr_1	CLK	0.06763	0.11443	0.50805
	CLK	0.09215	0.13878	0.53208
	RN	0.11635	0.17181	0.59143
	RN	0.09955	0.15509	0.57434

Internal switching power(pJ) to QN falling :

Cell Name	Input	Power(pJ)		
		first	mid	last
	CLK	0.06458	0.13962	0.64790
	CLK	0.08963	0.16459	0.67511
	RN	0.10495	0.15575	0.55607
gf180mcu_osu_sc_gp9t3v3__dffsr_1	**RN**	0.12171	0.17250	0.57349
	SN	0.09512	0.15609	0.61949
	SN	0.07882	0.13985	0.60344

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

Cell Name	When	Power(pJ)		
		first	mid	last
	CLK	-0.01322	-0.01337	-0.01335
	CLK	0.00655	0.00647	0.00649
	(!CLK * RN * SN * Q * !QN) + (!CLK * RN * SN * !Q * QN)	0.08460	0.15229	0.71637
	(!CLK * RN * SN * Q * !QN) + (!CLK * RN * SN * !Q * QN)	0.11017	0.17788	0.74184
	(!CLK * RN * !SN * Q * !QN)	0.03740	0.10128	0.62199
gf180mcu_osu_sc_gp9t3v3__dffsr_1	**(!CLK * RN * !SN * Q * !QN)**	0.06908	0.13307	0.65351
	(!CLK * !RN * SN * !Q * QN)	0.03715	0.10059	0.62211
	(!CLK * !RN * SN * !Q * QN)	0.06896	0.13235	0.65366
	(!CLK * !RN * !SN * !Q * QN)	0.03740	0.10128	0.62199
	(!CLK * !RN * !SN * !Q * QN)	0.06908	0.13307	0.65351

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

Cell Name	When	Power(pJ)		
		first	mid	last
gf180mcu_osu_sc_gp9t3v3__dffsr_1	CLK	0.01350	0.01350	0.01335
	CLK	-0.00644	-0.00647	-0.00648
	(!CLK * RN * SN * Q * !QN) + (!CLK * RN * SN * !Q * QN)	0.10616	0.17651	0.74263
	(!CLK * RN * SN * Q * !QN) + (!CLK * RN * SN * !Q * QN)	0.08055	0.15087	0.71713
	(!CLK * RN * !SN * Q * !QN)	0.04832	0.11362	0.63649
	(!CLK * RN * !SN * Q * !QN)	0.01674	0.08188	0.60486
	(!CLK * !RN * SN * !Q * QN)	0.04844	0.11347	0.63632
	(!CLK * !RN * SN * !Q * QN)	0.01680	0.08179	0.60475
	(!CLK * !RN * !SN * !Q * QN)	0.04832	0.11362	0.63650
	(!CLK * !RN * !SN * !Q * QN)	0.01674	0.08186	0.60486

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

Cell Name	When	Power(pJ)		
		first	mid	last
gf180mcu_osu_sc_gp9t3v3__dffsr_1	(CLK * SN * !Q * QN) + (!CLK * !D * SN * !Q * QN)	0.00945	0.09340	0.67565
	(CLK * SN * !Q * QN) + (!CLK * !D * SN * !Q * QN)	0.03159	0.11551	0.69779
	(!CLK * D * SN * !Q * QN)	0.05546	0.14345	0.75218
	(!CLK * D * SN * !Q * QN)	0.07230	0.16042	0.76910

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

Cell Name	When	Power(pJ)		
		first	mid	last
gf180mcu_osu_sc_gp9t3v3__dffsr_1	(CLK * SN * !Q * QN) + (!CLK * !D * SN * !Q * QN)	0.03774	0.12507	0.70816
	(CLK * SN * !Q * QN) + (!CLK * !D * SN * !Q * QN)	0.01557	0.10282	0.68608
	(!CLK * D * SN * !Q * QN)	0.07901	0.17019	0.78403
	(!CLK * D * SN * !Q * QN)	0.06214	0.15344	0.76718

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

Cell Name	When	Power(pJ)		
		first	mid	last
gf180mcu_osu_sc_gp9t3v3__dffsr_1	(CLK * RN * Q * !QN) + (!CLK * D * RN * Q * !QN)	-0.02793	-0.02816	-0.02827
	(CLK * RN * Q * !QN) + (!CLK * D * RN * Q * !QN)	0.00386	0.00388	0.00366
	(!RN * !Q * QN)	-0.02694	-0.02702	-0.02698
	(!RN * !Q * QN)	0.01311	0.01316	0.01302
	(!CLK * !D * RN * Q * !QN)	0.02956	0.08801	0.55614
	(!CLK * !D * RN * Q * !QN)	0.06710	0.12577	0.59362

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

Cell Name	When	Power(pJ)		
		first	mid	last
gf180mcu_osu_sc_gp9t3v3__dffsr_1	(CLK * RN * Q * !QN) + (!CLK * D * RN * Q * !QN)	0.02846	0.02860	0.02836
	(CLK * RN * Q * !QN) + (!CLK * D * RN * Q * !QN)	-0.00361	-0.00364	-0.00359
	(!RN * !Q * QN)	0.02707	0.02702	0.02698
	(!RN * !Q * QN)	-0.01298	-0.01298	-0.01298
	(!CLK * !D * RN * Q * !QN)	0.06258	0.11848	0.58926
	(!CLK * !D * RN * Q * !QN)	0.02492	0.08071	0.55161

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

Cell Name	When	Power(pJ)		
		first	mid	last
gf180mcu_osu_sc_gp9t3v3__dffsr_1	(D * RN * Q * !QN)	-0.00022	0.08422	0.66646
	(D * RN * Q * !QN)	0.04664	0.13103	0.71314
	(D * !RN * SN * !Q * QN)	0.03593	0.12442	0.73405
	(D * !RN * SN * !Q * QN)	0.08031	0.16869	0.77671
	(D * !RN * !SN * !Q * QN)	0.03580	0.12436	0.73378
	(D * !RN * !SN * !Q * QN)	0.08025	0.16861	0.77637
	(!D * RN * SN * !Q * QN) + (!D * !RN * !Q * QN)	-0.00083	0.08455	0.66610
	(!D * RN * SN * !Q * QN) + (!D * !RN * !Q * QN)	0.05312	0.13834	0.71997
	(!D * RN * !SN * Q * !QN)	0.02509	0.16620	1.15806
	(!D * RN * !SN * Q * !QN)	0.08159	0.22280	1.21437

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

Cell Name	When	Power(pJ)		
		first	mid	last
gf180mcu_osu_sc_gp9t3v3__dffsr_1	(D * RN * SN * !Q * QN)	0.14915	0.23727	1.00237
	(D * RN * SN * !Q * QN)	0.10132	0.18958	0.95592
	(D * RN * Q * !QN)	0.04729	0.13513	0.71738
	(D * RN * Q * !QN)	0.00048	0.08852	0.67051
	(D * !RN * SN * !Q * QN)	0.09406	0.18881	0.79676
	(D * !RN * SN * !Q * QN)	0.04959	0.14470	0.75327
	(D * !RN * !SN * !Q * QN)	0.09424	0.18910	0.79678
	(D * !RN * !SN * !Q * QN)	0.04977	0.14491	0.75318
	(!D * RN * SN * Q * !QN)	0.13537	0.28452	1.17447
	(!D * RN * SN * Q * !QN)	0.08472	0.23384	1.12334
	(!D * RN * SN * !Q * QN) + (!D * !RN * !Q * QN)	0.05373	0.13922	0.72024
	(!D * RN * SN * !Q * QN) + (!D * !RN * !Q * QN)	-0.00033	0.08498	0.66631
	(!D * RN * !SN * Q * !QN)	0.06924	0.21479	1.20685
	(!D * RN * !SN * Q * !QN)	0.01269	0.15837	1.15038

GF180MCU_OSU_SC_GP9T3V3__DFF_1

Truth Table

INPUT		OUTPUT	
D	CLK	Q	QN
0	R	0	1
1	R	1	0
x	x	IQ	IQN

Footprint

Cell Name	Area
gf180mcu_osu_sc_gp9t3v3__dff_1	92.07500

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)	
	D	CLK	Q	QN
gf180mcu_osu_sc_gp9t3v3__dff_1	0.00393	0.01039	1.56141	1.56075

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
gf180mcu_osu_sc_gp9t3v3__dff_1	0.00000	0.00595	0.00661

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		First	**Mid**	**Last**
gf180mcu_osu_sc_gp9t3v3__dff_1	**CLK->Q (RR)**	0.26942	1.25620	16.48390
	QN->Q (FR)	0.04498	0.85148	10.25460

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		First	**Mid**	**Last**
gf180mcu_osu_sc_gp9t3v3__dff_1	**CLK->Q (RF)**	0.35742	1.28545	16.29670
	QN->Q (RF)	0.03639	0.65226	8.74007

Delay(ns) to QN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		First	**Mid**	**Last**
gf180mcu_osu_sc_gp9t3v3__dff_1	**CLK->QN (RR)**	0.32250	0.75813	6.99720

Delay(ns) to QN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		First	**Mid**	**Last**
gf180mcu_osu_sc_gp9t3v3__dff_1	**CLK->QN (RF)**	0.23125	0.67320	6.16788

Constraint Information

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			first	mid	last
gf180mcu_osu_sc_gp9t3v3__dff_1	hold	CLK (R)	-0.10837	-0.09951	0.55856
	setup	CLK (R)	0.11748	0.10817	0.37404

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			first	mid	last
gf180mcu_osu_sc_gp9t3v3__dff_1	hold	CLK (R)	-0.21621	-0.61006	-5.04240
	setup	CLK (R)	0.21824	0.61222	5.16013

Constraints(ns) for CLK rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			first	mid	last
gf180mcu_osu_sc_gp9t3v3__dff_1	min_pulse_width	CLK ()	0.14754	1.45630	16.50020
	min_pulse_width	CLK ()	0.18123	1.45630	16.50020

Constraints(ns) for CLK falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			first	mid	last
gf180mcu_osu_sc_gp9t3v3__dff_1	min_pulse_width	CLK ()	0.18382	1.45630	16.50020
	min_pulse_width	CLK ()	0.17604	1.45630	16.50020

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)		
		first	**mid**	**last**
gf180mcu_osu_sc_gp9t3v3__dff_1	**CLK**	0.04946	0.12984	0.64377
	CLK	0.07753	0.15803	0.67514

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)		
		first	**mid**	**last**
gf180mcu_osu_sc_gp9t3v3__dff_1	**CLK**	0.05842	0.10745	0.50368
	CLK	0.07991	0.12830	0.52377

Internal switching power(pJ) to QN rising :

Cell Name	Input	Power(pJ)		
		first	**mid**	**last**
gf180mcu_osu_sc_gp9t3v3__dff_1	**CLK**	0.05840	0.10719	0.50270
	CLK	0.07989	0.12852	0.52401

Internal switching power(pJ) to QN falling :

Cell Name	Input	Power(pJ)		
		first	**mid**	**last**
gf180mcu_osu_sc_gp9t3v3__dff_1	**CLK**	0.04937	0.12979	0.64122
	CLK	0.07744	0.15791	0.67139

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

Cell Name	When	Power(pJ)		
		first	mid	last
gf180mcu_osu_sc_gp9t3v3__dff_1	CLK	-0.01322	-0.01338	-0.01335
	CLK	0.00655	0.00647	0.00649
	(!CLK * Q * !QN) + (!CLK * !Q * QN)	0.05982	0.13524	0.71342
	(!CLK * Q * !QN) + (!CLK * !Q * QN)	0.09138	0.16690	0.74479

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

Cell Name	When	Power(pJ)		
		first	mid	last
gf180mcu_osu_sc_gp9t3v3__dff_1	CLK	0.01350	0.01350	0.01335
	CLK	-0.00644	-0.00647	-0.00648
	(!CLK * Q * !QN) + (!CLK * !Q * QN)	0.09185	0.16885	0.74724
	(!CLK * Q * !QN) + (!CLK * !Q * QN)	0.06027	0.13728	0.71567

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

Cell Name	When	Power(pJ)		
		first	mid	last
gf180mcu_osu_sc_gp9t3v3__dff_1	(D * Q * !QN)	-0.00022	0.08422	0.66646
	(D * Q * !QN)	0.04664	0.13102	0.71314
	(!D * !Q * QN)	-0.00083	0.08453	0.66610
	(!D * !Q * QN)	0.05312	0.13836	0.71997

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

Cell Name	When	Power(pJ)		
		first	mid	last
gf180mcu_osu_sc_gp9t3v3__dff_1	(D * Q * !QN)	0.04730	0.13539	0.71738
	(D * Q * !QN)	0.00048	0.08841	0.67051
	(D * !Q * QN)	0.12427	0.21430	0.99209
	(D * !Q * QN)	0.08251	0.17233	0.94983
	(!D * Q * !QN)	0.12089	0.27488	1.16805
	(!D * Q * !QN)	0.06421	0.21785	1.11108
	(!D * !Q * QN)	0.05375	0.13922	0.72024
	(!D * !Q * QN)	-0.00032	0.08498	0.66630

GF180MCU_OSU_SC_GP9T3V3__DLATN_1

Truth Table

INPUT		OUTPUT
D	CLK	Q
0	0	0
x	1	IQ
1	0	1

Footprint

Cell Name	Area
gf180mcu_osu_sc_gp9t3v3__dlatn_1	71.75500

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	D	CLK	Q
gf180mcu_osu_sc_gp9t3v3__dlatn_1	0.00395	0.00404	1.56469

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
gf180mcu_osu_sc_gp9t3v3__dlatn_1	0.00000	0.00487	0.00534

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		First	**Mid**	**Last**
gf180mcu_osu_sc_gp9t3v3__dlatn_1	**CLK->Q (FR)**	0.34347	0.97913	8.41150
	D->Q (RR)	0.29675	0.73072	6.97299

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		First	**Mid**	**Last**
gf180mcu_osu_sc_gp9t3v3__dlatn_1	**CLK->Q (FF)**	0.40078	0.97658	7.65747
	D->Q (FF)	0.32831	0.89660	7.71021

Constraint Information

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			first	**mid**	**last**
gf180mcu_osu_sc_gp9t3v3__dlatn_1	**hold**	**CLK (R)**	-0.11447	-0.17739	-0.64081
	setup	**CLK (R)**	0.12096	0.17956	1.00982

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			first	**mid**	**last**
gf180mcu_osu_sc_gp9t3v3__dlatn_1	**hold**	**CLK (R)**	-0.09933	-0.17307	-1.25025
	setup	**CLK (R)**	0.10645	0.17523	1.26225

Constraints(ns) for CLK falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			first	**mid**	**last**
gf180mcu_osu_sc_gp9t3v3__dlatn_1	**min_pulse_width**	**CLK ()**	0.17086	1.45630	16.50020
	min_pulse_width	**CLK ()**	0.18641	1.45630	16.50020

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)		
		first	mid	last
gf180mcu_osu_sc_gp9t3v3__dlatn_1	CLK	0.15800	0.26367	0.93251
	CLK	0.13689	0.24235	0.91127
	D	0.09616	0.17470	0.76381
	D	0.11758	0.19601	0.78519

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)		
		first	mid	last
gf180mcu_osu_sc_gp9t3v3__dlatn_1	CLK	0.16083	0.25900	0.88284
	CLK	0.13833	0.23702	0.86077
	D	0.12188	0.20029	0.78765
	D	0.10035	0.17908	0.76662

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

Cell Name	When	Power(pJ)		
		first	mid	last
gf180mcu_osu_sc_gp9t3v3__dlatn_1	CLK	-0.01335	-0.01350	-0.01346
	CLK	0.00662	0.00651	0.00649

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

Cell Name	When	Power(pJ)		
		first	mid	last
gf180mcu_osu_sc_gp9t3v3__dlatn_1	CLK	0.01342	0.01361	0.01346
	CLK	-0.00641	-0.00651	-0.00647

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

Cell Name	When	Power(pJ)		
		first	mid	last
gf180mcu_osu_sc_gp9t3v3__dlatn_1	(D * Q)	0.03320	0.12708	0.75302
	(D * Q)	0.05503	0.14896	0.77483
	(!D * !Q)	0.03637	0.13061	0.75694
	(!D * !Q)	0.05836	0.15280	0.77887

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

Cell Name	When	Power(pJ)		
		first	mid	last
gf180mcu_osu_sc_gp9t3v3__dlatn_1	(D * Q)	0.05518	0.15146	0.77647
	(D * Q)	0.03329	0.12958	0.75466
	(!D * !Q)	0.05864	0.15408	0.77925
	(!D * !Q)	0.03658	0.13192	0.75729

GF180MCU_OSU_SC_GP9T3V3__DLAT_1

Truth Table

INPUT		OUTPUT
D	CLK	Q
x	0	IQ
0	1	0
1	1	1

Footprint

Cell Name	Area
gf180mcu_osu_sc_gp9t3v3__dlat_1	60.32500

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	D	CLK	Q
gf180mcu_osu_sc_gp9t3v3__dlat_1	0.00395	0.00812	1.56358

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
gf180mcu_osu_sc_gp9t3v3__dlat_1	0.00000	0.00418	0.00475

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		First	**Mid**	**Last**
gf180mcu_osu_sc_gp9t3v3__dlat_1	**CLK->Q (RR)**	0.26321	0.74398	6.94335
	D->Q (RR)	0.29531	0.73056	6.96558

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		First	**Mid**	**Last**
gf180mcu_osu_sc_gp9t3v3__dlat_1	**CLK->Q (RF)**	0.33278	0.70064	6.22097
	D->Q (FF)	0.32836	0.89642	7.70570

Constraint Information

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			first	**mid**	**last**
gf180mcu_osu_sc_gp9t3v3__dlat_1	**hold**	**CLK (F)**	-0.17417	-0.36560	-2.23157
	setup	**CLK (F)**	0.18181	0.39424	5.47468

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			first	**mid**	**last**
gf180mcu_osu_sc_gp9t3v3__dlat_1	**hold**	**CLK (F)**	-0.15692	-0.19037	0.12822
	setup	**CLK (F)**	0.16091	0.19254	-0.12498

Constraints(ns) for CLK rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			first	**mid**	**last**
gf180mcu_osu_sc_gp9t3v3__dlat_1	**min_pulse_width**	**CLK ()**	0.15013	1.45630	16.50020
	min_pulse_width	**CLK ()**	0.17345	1.45630	16.50020

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)		
		first	**mid**	**last**
gf180mcu_osu_sc_gp9t3v3__dlat_1	**CLK**	0.09253	0.24889	1.13079
	CLK	0.13707	0.29348	1.17570
	D	0.08989	0.16843	0.75443
	D	0.11759	0.19603	0.78214

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)		
		first	**mid**	**last**
gf180mcu_osu_sc_gp9t3v3__dlat_1	**CLK**	0.11208	0.20101	0.81578
	CLK	0.13878	0.22776	0.84295
	D	0.12857	0.20696	0.79445
	D	0.10028	0.17900	0.76670

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

Cell Name	When	Power(pJ)		
		first	**mid**	**last**
gf180mcu_osu_sc_gp9t3v3__dlat_1	**!CLK**	-0.01334	-0.01350	-0.01346
	!CLK	0.00659	0.00649	0.00646

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

Cell Name	When	Power(pJ)		
		first	**mid**	**last**
gf180mcu_osu_sc_gp9t3v3__dlat_1	**!CLK**	0.01344	0.01354	0.01346
	!CLK	-0.00639	-0.00649	-0.00646

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

Cell Name	When	Power(pJ)		
		first	mid	last
gf180mcu_osu_sc_gp9t3v3__dlat_1	(D * Q)	-0.00054	0.08676	0.67099
	(D * Q)	0.03387	0.12148	0.70541
	(!D * !Q)	-0.00068	0.08702	0.67094
	(!D * !Q)	0.03723	0.12494	0.70871

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

Cell Name	When	Power(pJ)		
		first	mid	last
gf180mcu_osu_sc_gp9t3v3__dlat_1	(D * Q)	0.03505	0.12500	0.70878
	(D * Q)	0.00046	0.09045	0.67426
	(!D * !Q)	0.03797	0.12641	0.70996
	(!D * !Q)	-0.00001	0.08839	0.67209

GF180MCU_OSU_SC_GP9T3V3__INV_16

Truth Table

INPUT	OUTPUT
A	Y
0	1
1	0

Footprint

Cell Name	Area
gf180mcu_osu_sc_gp9t3v3__inv_16	95.25000

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
gf180mcu_osu_sc_gp9t3v3__inv_16	0.06466	23.87902

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
gf180mcu_osu_sc_gp9t3v3__inv_16	0.00000	0.01192	0.01439

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		First	**Mid**	**Last**
gf180mcu_osu_sc_gp9t3v3__inv_16	**A->Y (FR)**	0.03956	0.49678	9.96266

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		First	**Mid**	**Last**
gf180mcu_osu_sc_gp9t3v3__inv_16	**A->Y (RF)**	0.03092	0.29391	8.47767

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		first	**mid**	**last**
gf180mcu_osu_sc_gp9t3v3__inv_16	**A**	0.35769	1.48564	4.08773
	A	0.00871	1.13458	3.73679

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		first	**mid**	**last**
gf180mcu_osu_sc_gp9t3v3__inv_16	**A**	0.00391	1.07026	3.39416
	A	0.35279	1.42160	3.74749

GF180MCU_OSU_SC_GP9T3V3__INV_1

Truth Table

INPUT	OUTPUT
A	Y
0	1
1	0

Footprint

Cell Name	Area
gf180mcu_osu_sc_gp9t3v3__inv_1	13.97000

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
gf180mcu_osu_sc_gp9t3v3__inv_1	0.00404	1.50748

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
gf180mcu_osu_sc_gp9t3v3__inv_1	0.00000	0.00075	0.00090

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		First	**Mid**	**Last**
gf180mcu_osu_sc_gp9t3v3__inv_1	**A->Y (FR)**	0.04498	0.84197	10.02570

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		First	**Mid**	**Last**
gf180mcu_osu_sc_gp9t3v3__inv_1	**A->Y (RF)**	0.03639	0.64312	8.53517

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		first	**mid**	**last**
gf180mcu_osu_sc_gp9t3v3__inv_1	**A**	0.02226	0.07404	0.25366
	A	0.00038	0.05208	0.23179

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		first	**mid**	**last**
gf180mcu_osu_sc_gp9t3v3__inv_1	**A**	-0.00053	0.04771	0.21052
	A	0.02128	0.06976	0.23249

GF180MCU_OSU_SC_GP9T3V3__INV_2

Truth Table

INPUT	OUTPUT
A	Y
0	1
1	0

Footprint

Cell Name	Area
gf180mcu_osu_sc_gp9t3v3__inv_2	20.32000

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
gf180mcu_osu_sc_gp9t3v3__inv_2	0.00808	2.98498

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
gf180mcu_osu_sc_gp9t3v3__inv_2	0.00000	0.00149	0.00180

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		First	**Mid**	**Last**
gf180mcu_osu_sc_gp9t3v3__inv_2	**A->Y (FR)**	0.04172	0.72858	9.96233

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		First	**Mid**	**Last**
gf180mcu_osu_sc_gp9t3v3__inv_2	**A->Y (RF)**	0.03307	0.52906	8.47738

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		first	**mid**	**last**
gf180mcu_osu_sc_gp9t3v3__inv_2	**A**	0.04475	0.15897	0.51097
	A	0.00091	0.11480	0.46711

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		first	**mid**	**last**
gf180mcu_osu_sc_gp9t3v3__inv_2	**A**	-0.00109	0.10609	0.42288
	A	0.04270	0.15004	0.46704

GF180MCU_OSU_SC_GP9T3V3__INV_4

Truth Table

INPUT	OUTPUT
A	Y
0	1
1	0

Footprint

Cell Name	Area
gf180mcu_osu_sc_gp9t3v3__inv_4	30.48000

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
gf180mcu_osu_sc_gp9t3v3__inv_4	0.01616	5.97048

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
gf180mcu_osu_sc_gp9t3v3__inv_4	0.00000	0.00298	0.00360

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		First	**Mid**	**Last**
gf180mcu_osu_sc_gp9t3v3__inv_4	**A->Y (FR)**	0.04000	0.63574	9.96289

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		First	**Mid**	**Last**
gf180mcu_osu_sc_gp9t3v3__inv_4	**A->Y (RF)**	0.03137	0.43650	8.47788

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		first	**mid**	**last**
gf180mcu_osu_sc_gp9t3v3__inv_4	**A**	0.08959	0.33578	1.02191
	A	0.00205	0.24768	0.93418

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		first	**mid**	**last**
gf180mcu_osu_sc_gp9t3v3__inv_4	**A**	-0.00200	0.23109	0.84572
	A	0.08550	0.31888	0.93405

GF180MCU_OSU_SC_GP9T3V3__INV_8

Truth Table

INPUT	OUTPUT
A	Y
0	1
1	0

Footprint

Cell Name	Area
gf180mcu_osu_sc_gp9t3v3__inv_8	52.07000

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
gf180mcu_osu_sc_gp9t3v3__inv_8	0.03232	11.94140

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
gf180mcu_osu_sc_gp9t3v3__inv_8	0.00000	0.00596	0.00720

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		First	**Mid**	**Last**
gf180mcu_osu_sc_gp9t3v3__inv_8	**A->Y (FR)**	0.03912	0.55929	9.96313

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		First	**Mid**	**Last**
gf180mcu_osu_sc_gp9t3v3__inv_8	**A->Y (RF)**	0.03045	0.35837	8.47809

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		first	**mid**	**last**
gf180mcu_osu_sc_gp9t3v3__inv_8	**A**	0.17894	0.70851	2.04380
	A	0.00445	0.53241	1.86833

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		first	**mid**	**last**
gf180mcu_osu_sc_gp9t3v3__inv_8	**A**	-0.00375	0.49690	1.69140
	A	0.17077	0.67287	1.86807

GF180MCU_OSU_SC_GP9T3V3__MUX2_1

Truth Table

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

Footprint

Cell Name	Area
gf180mcu_osu_sc_gp9t3v3__mux2_1	32.38500

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	Sel	Y
gf180mcu_osu_sc_gp9t3v3__mux2_1	0.24485	0.24485	0.00808	0.24039

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
gf180mcu_osu_sc_gp9t3v3__mux2_1	0.00000	0.00201	0.00207

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			First	Mid	Last
gf180mcu_osu_sc_gp9t3v3__mux2_1	**A->Y (RR)**	**-**	0.02333	0.10898	0.80157
	B->Y (RR)	**-**	0.02529	0.10981	0.80245
	Sel->Y (RR)	**(!A * B)**	0.07429	0.23298	0.84092
	Sel->Y (FR)	**(A * !B)**	0.05563	0.41382	2.58659

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			First	Mid	Last
gf180mcu_osu_sc_gp9t3v3__mux2_1	**A->Y (FF)**	**-**	0.02811	0.11506	0.84003
	B->Y (FF)	**-**	0.02571	0.11405	0.83896
	Sel->Y (FF)	**(!A * B)**	0.08564	0.41550	2.08689
	Sel->Y (RF)	**(A * !B)**	0.04719	0.24437	1.46441

Power Information

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

Cell Name	Input	When	Power(pJ)		
			first	**mid**	**last**
gf180mcu_osu_sc_gp9t3v3__mux2_1	**A**	**-**	-0.03048	-0.03051	-0.03049
	A	**-**	0.01297	0.01301	0.01300
	B	**-**	-0.02387	-0.02386	-0.02388
	B	**-**	0.02376	0.02377	0.02378
	Sel	**(A * !B)**	0.01192	0.10175	0.68712
	Sel	**(A * !B)**	0.00927	0.09899	0.68458
	Sel	**(!A * B)**	-0.01752	0.06847	0.65235
	Sel	**(!A * B)**	0.05188	0.13862	0.72483

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

Cell Name	Input	When	Power(pJ)		
			first	**mid**	**last**
gf180mcu_osu_sc_gp9t3v3__mux2_1	**A**	**-**	0.03048	0.03051	0.03054
	A	**-**	-0.01297	-0.01301	-0.01300
	B	**-**	0.02387	0.02389	0.02390
	B	**-**	-0.02376	-0.02377	-0.02378
	Sel	**(A * !B)**	0.01619	0.10391	0.68925
	Sel	**(A * !B)**	0.01876	0.10709	0.69450
	Sel	**(!A * B)**	0.06024	0.14739	0.73129
	Sel	**(!A * B)**	-0.00917	0.07800	0.66226

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

Cell Name	When	Power(pJ)		
		first	**mid**	**last**
gf180mcu_osu_sc_gp9t3v3__mux2_1	**(B * Sel * Y) + (!B * Sel * !Y)**	-0.00715	-0.00717	-0.00714
	(B * Sel * Y) + (!B * Sel * !Y)	0.00469	0.00472	0.00470

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

Cell Name	When	Power(pJ)		
		first	**mid**	**last**
gf180mcu_osu_sc_gp9t3v3__mux2_1	(B * Sel * Y) + (!B * Sel * !Y)	0.00720	0.00717	0.00714
	(B * Sel * Y) + (!B * Sel * !Y)	-0.00469	-0.00472	-0.00470

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

Cell Name	When	Power(pJ)		
		first	**mid**	**last**
gf180mcu_osu_sc_gp9t3v3__mux2_1	(A * !Sel * Y) + (!A * !Sel * !Y)	-0.00843	-0.00846	-0.00842
	(A * !Sel * Y) + (!A * !Sel * !Y)	0.00407	0.00409	0.00407

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

Cell Name	When	Power(pJ)		
		first	**mid**	**last**
gf180mcu_osu_sc_gp9t3v3__mux2_1	(A * !Sel * Y) + (!A * !Sel * !Y)	0.00843	0.00846	0.00842
	(A * !Sel * Y) + (!A * !Sel * !Y)	-0.00407	-0.00409	-0.00407

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

Cell Name	When	Power(pJ)		
		first	**mid**	**last**
gf180mcu_osu_sc_gp9t3v3__mux2_1	(A * B * Y)	-0.00072	0.08697	0.67095
	(A * B * Y)	0.03710	0.12490	0.70871
	(!A * !B * !Y)	-0.00068	0.08657	0.67087
	(!A * !B * !Y)	0.03358	0.12111	0.70522

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

Cell Name	When	Power(pJ)		
		first	mid	last
gf180mcu_osu_sc_gp9t3v3__mux2_1	(A * B * Y)	0.03787	0.12605	0.70976
	(A * B * Y)	-0.00007	0.08814	0.67191
	(!A * !B * !Y)	0.03459	0.12426	0.70857
	(!A * !B * !Y)	0.00021	0.08986	0.67424

GF180MCU_OSU_SC_GP9T3V3__NAND2_1

Truth Table

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

Footprint

Cell Name	Area
gf180mcu_osu_sc_gp9t3v3__nand2_1	19.68500

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	**B**	**Y**
gf180mcu_osu_sc_gp9t3v3__nand2_1	0.00404	0.00402	1.04725

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
gf180mcu_osu_sc_gp9t3v3__nand2_1	0.00000	0.00079	0.00118

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		First	**Mid**	**Last**
gf180mcu_osu_sc_gp9t3v3__nand2_1	**A->Y (FR)**	0.05391	0.73458	7.95705
	B->Y (FR)	0.06585	0.76115	7.99777

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		First	**Mid**	**Last**
gf180mcu_osu_sc_gp9t3v3__nand2_1	**A->Y (RF)**	0.06150	0.77694	9.03370
	B->Y (RF)	0.06617	0.63493	7.88183

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		first	mid	last
gf180mcu_osu_sc_gp9t3v3__nand2_1	A	0.02371	0.06746	0.23835
	A	0.00059	0.04432	0.21361
	B	0.03513	0.08287	0.26647
	B	0.00703	0.05453	0.23683

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		first	mid	last
gf180mcu_osu_sc_gp9t3v3__nand2_1	A	0.00588	0.04849	0.21421
	A	0.02905	0.07189	0.23791
	B	0.00459	0.04928	0.23854
	B	0.03280	0.07788	0.26777

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

Cell Name	When	Power(pJ)		
		first	mid	last
gf180mcu_osu_sc_gp9t3v3__nand2_1	(!B * Y)	-0.01402	-0.01412	-0.01414
	(!B * Y)	0.00188	0.00188	0.00178

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

Cell Name	When	Power(pJ)		
		first	mid	last
gf180mcu_osu_sc_gp9t3v3__nand2_1	(!B * Y)	0.01426	0.01431	0.01418
	(!B * Y)	-0.00177	-0.00177	-0.00175

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

Cell Name	When	Power(pJ)		
		first	mid	last
gf180mcu_osu_sc_gp9t3v3__nand2_1	**(!A * Y)**	-0.01352	-0.01358	-0.01352
	(!A * Y)	0.00650	0.00654	0.00648

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

Cell Name	When	Power(pJ)		
		first	mid	last
gf180mcu_osu_sc_gp9t3v3__nand2_1	**(!A * Y)**	0.01367	0.01367	0.01355
	(!A * Y)	-0.00639	-0.00652	-0.00647

GF180MCU_OSU_SC_GP9T3V3__NOR2_1

Truth Table

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

Footprint

Cell Name	Area
gf180mcu_osu_sc_gp9t3v3__nor2_1	20.32000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
gf180mcu_osu_sc_gp9t3v3__nor2_1	0.00398	0.00404	0.78121

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
gf180mcu_osu_sc_gp9t3v3__nor2_1	0.00000	0.00084	0.00180

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		First	**Mid**	**Last**
gf180mcu_osu_sc_gp9t3v3__nor2_1	**A->Y (FR)**	0.09194	0.83618	8.71519
	B->Y (FR)	0.07001	0.97901	9.85004

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		First	**Mid**	**Last**
gf180mcu_osu_sc_gp9t3v3__nor2_1	**A->Y (RF)**	0.05934	0.50696	5.37174
	B->Y (RF)	0.04320	0.46109	5.29400

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		first	**mid**	**last**
gf180mcu_osu_sc_gp9t3v3__nor2_1	**A**	0.03440	0.08071	0.32284
	A	0.00253	0.04853	0.29057
	B	0.02602	0.07081	0.26848
	B	0.00354	0.04821	0.24589

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		first	**mid**	**last**
gf180mcu_osu_sc_gp9t3v3__nor2_1	**A**	0.01134	0.05559	0.25578
	A	0.04303	0.08747	0.29150
	B	0.00064	0.04168	0.21929
	B	0.02314	0.06435	0.24590

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

Cell Name	When	Power(pJ)		
		first	**mid**	**last**
gf180mcu_osu_sc_gp9t3v3__nor2_1	**(B * !Y)**	-0.01310	-0.01344	-0.01336
	(B * !Y)	0.00654	0.00659	0.00651

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

Cell Name	When	Power(pJ)		
		first	**mid**	**last**
gf180mcu_osu_sc_gp9t3v3__nor2_1	**(B * !Y)**	0.01341	0.01344	0.01336
	(B * !Y)	-0.00648	-0.00652	-0.00649

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

Cell Name	When	Power(pJ)		
		first	mid	last
gf180mcu_osu_sc_gp9t3v3__nor2_1	**(A * !Y)**	-0.00461	-0.00456	-0.00451
	(A * !Y)	0.00792	0.00785	0.00780

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

Cell Name	When	Power(pJ)		
		first	mid	last
gf180mcu_osu_sc_gp9t3v3__nor2_1	**(A * !Y)**	0.00488	0.00484	0.00460
	(A * !Y)	-0.00756	-0.00760	-0.00780

GF180MCU_OSU_SC_GP9T3V3__OAI21_1

Truth Table

INPUT			OUTPUT
A0	A1	B	Y
0	0	x	1
x	1	0	1
x	1	1	0
1	x	0	1
1	x	1	0

Footprint

Cell Name	Area
gf180mcu_osu_sc_gp9t3v3__oai21_1	25.40000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B	Y
gf180mcu_osu_sc_gp9t3v3__oai21_1	0.00395	0.00402	0.00404	0.77902

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
gf180mcu_osu_sc_gp9t3v3__oai21_1	0.00000	0.00097	0.00152

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		First	**Mid**	**Last**
gf180mcu_osu_sc_gp9t3v3__oai21_1	**A0->Y (FR)**	0.12840	0.85377	8.59381
	A1->Y (FR)	0.10356	0.99678	9.74633
	B->Y (FR)	0.05358	0.68184	6.75524

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		First	**Mid**	**Last**
gf180mcu_osu_sc_gp9t3v3__oai21_1	**A0->Y (RF)**	0.10041	0.58269	6.13624
	A1->Y (RF)	0.07349	0.53463	6.04630
	B->Y (RF)	0.08984	0.73943	7.41956

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		first	**mid**	**last**
gf180mcu_osu_sc_gp9t3v3__oai21_1	A0	0.04753	0.08644	0.28834
	A0	0.00947	0.04817	0.25008
	A1	0.03846	0.07638	0.23966
	A1	0.00976	0.04758	0.21166
	B	0.02356	0.07591	0.30431
	B	0.00040	0.05241	0.28053

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		first	**mid**	**last**
gf180mcu_osu_sc_gp9t3v3__oai21_1	A0	0.01748	0.05472	0.23887
	A0	0.05552	0.09284	0.27682
	A1	0.00577	0.04052	0.20627
	A1	0.03445	0.06937	0.23499
	B	0.00617	0.05579	0.27437
	B	0.02930	0.07900	0.29751

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

Cell Name	When	Power(pJ)		
		first	**mid**	**last**
gf180mcu_osu_sc_gp9t3v3__oai21_1	(A1 * B * !Y)	-0.01308	-0.01344	-0.01338
	(A1 * B * !Y)	0.00653	0.00659	0.00651
	(A1 * !B * Y)	-0.01314	-0.01344	-0.01336
	(A1 * !B * Y)	0.00651	0.00659	0.00651
	(!A1 * !B * Y)	-0.01352	-0.01357	-0.01352
	(!A1 * !B * Y)	0.00652	0.00648	0.00645

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

Cell Name	When	Power(pJ)		
		first	**mid**	**last**
gf180mcu_osu_sc_gp9t3v3__oai21_1	(A1 * B * !Y)	0.01351	0.01344	0.01338
	(A1 * B * !Y)	-0.00648	-0.00652	-0.00649
	(A1 * !B * Y)	0.01349	0.01344	0.01336
	(A1 * !B * Y)	-0.00650	-0.00653	-0.00649
	(!A1 * !B * Y)	0.01358	0.01366	0.01355
	(!A1 * !B * Y)	-0.00637	-0.00648	-0.00645

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

Cell Name	When	Power(pJ)		
		first	**mid**	**last**
gf180mcu_osu_sc_gp9t3v3__oai21_1	(A0 * B * !Y)	-0.00461	-0.00456	-0.00451
	(A0 * B * !Y)	0.00789	0.00785	0.00780
	(!B * Y)	-0.01311	-0.01342	-0.01331
	(!B * Y)	0.00654	0.00652	0.00651

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

Cell Name	When	Power(pJ)		
		first	**mid**	**last**
gf180mcu_osu_sc_gp9t3v3__oai21_1	(A0 * B * !Y)	0.00488	0.00484	0.00460
	(A0 * B * !Y)	-0.00752	-0.00759	-0.00780
	(!B * Y)	0.01331	0.01344	0.01331
	(!B * Y)	-0.00650	-0.00652	-0.00649

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

Cell Name	When	Power(pJ)		
		first	**mid**	**last**
gf180mcu_osu_sc_gp9t3v3__oai21_1	(!A0 * !A1 * Y)	-0.01396	-0.01405	-0.01413
	(!A0 * !A1 * Y)	0.00194	0.00194	0.00179

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

Cell Name	When	Power(pJ)		
		first	**mid**	**last**
gf180mcu_osu_sc_gp9t3v3__oai21_1	**(!A0 * !A1 * Y)**	0.01413	0.01430	0.01418
	(!A0 * !A1 * Y)	-0.00174	-0.00177	-0.00175

GF180MCU_OSU_SC_GP9T3V3__OAI22_1

Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	Y
0	0	x	x	1
x	1	0	0	1
x	1	x	1	0
x	1	1	x	0
1	x	0	0	1
1	x	x	1	0
1	x	1	x	0

Footprint

Cell Name	Area
gf180mcu_osu_sc_gp9t3v3__oai22_1	34.92500

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	B1	Y
gf180mcu_osu_sc_gp9t3v3__oai22_1	0.00395	0.00403	0.00404	0.00398	0.77583

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
gf180mcu_osu_sc_gp9t3v3__oai22_1	0.00000	0.00127	0.00180

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		First	**Mid**	**Last**
gf180mcu_osu_sc_gp9t3v3__oai22_1	**A0->Y (FR)**	0.15640	0.88670	8.65665
	A1->Y (FR)	0.13137	1.03331	9.80156
	B0->Y (FR)	0.08248	0.97455	9.72787
	B1->Y (FR)	0.10552	0.82925	8.57372

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		First	**Mid**	**Last**
gf180mcu_osu_sc_gp9t3v3__oai22_1	**A0->Y (RF)**	0.14483	0.63104	6.16286
	A1->Y (RF)	0.11483	0.58549	6.07270
	B0->Y (RF)	0.09832	0.71489	7.25722
	B1->Y (RF)	0.12710	0.76378	7.33289

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		first	**mid**	**last**
gf180mcu_osu_sc_gp9t3v3__oai22_1	A0	0.06557	0.10312	0.30651
	A0	0.01787	0.05782	0.27923
	A1	0.05624	0.09395	0.25819
	A1	0.01812	0.05798	0.23772
	B0	0.02755	0.06739	0.24016
	B0	0.00375	0.04353	0.21705
	B1	0.03621	0.07658	0.28807
	B1	0.00293	0.04312	0.25486

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		first	**mid**	**last**
gf180mcu_osu_sc_gp9t3v3__oai22_1	A0	0.01747	0.05469	0.24188
	A0	0.07891	0.11334	0.29841
	A1	0.00581	0.04050	0.20859
	A1	0.05863	0.09046	0.25642
	B0	0.00743	0.04459	0.20599
	B0	0.03125	0.06848	0.23083
	B1	0.01827	0.05783	0.23680
	B1	0.05125	0.09084	0.27068

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

Cell Name	When	Power(pJ)		
		first	mid	last
gf180mcu_osu_sc_gp9t3v3__oai22_1	(A1 * B0 * !Y)	-0.01308	-0.01344	-0.01338
	(A1 * B0 * !Y)	0.00653	0.00659	0.00651
	(A1 * !B0 * B1 * !Y)	-0.01308	-0.01344	-0.01338
	(A1 * !B0 * B1 * !Y)	0.00653	0.00659	0.00651
	(A1 * !B0 * !B1 * Y)	-0.01312	-0.01344	-0.01336
	(A1 * !B0 * !B1 * Y)	0.00649	0.00659	0.00651
	(!A1 * !B0 * !B1 * Y)	-0.01349	-0.01357	-0.01352
	(!A1 * !B0 * !B1 * Y)	0.00645	0.00646	0.00644

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

Cell Name	When	Power(pJ)		
		first	mid	last
gf180mcu_osu_sc_gp9t3v3__oai22_1	(A1 * B0 * !Y)	0.01342	0.01344	0.01338
	(A1 * B0 * !Y)	-0.00648	-0.00652	-0.00649
	(A1 * !B0 * B1 * !Y)	0.01350	0.01344	0.01338
	(A1 * !B0 * B1 * !Y)	-0.00649	-0.00652	-0.00649
	(A1 * !B0 * !B1 * Y)	0.01349	0.01344	0.01336
	(A1 * !B0 * !B1 * Y)	-0.00649	-0.00653	-0.00649
	(!A1 * !B0 * !B1 * Y)	0.01354	0.01360	0.01355
	(!A1 * !B0 * !B1 * Y)	-0.00636	-0.00646	-0.00644

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

Cell Name	When	Power(pJ)		
		first	mid	last
gf180mcu_osu_sc_gp9t3v3__oai22_1	(A0 * B0 * !Y)	-0.00456	-0.00456	-0.00451
	(A0 * B0 * !Y)	0.00785	0.00785	0.00780
	(A0 * !B0 * B1 * !Y)	-0.00461	-0.00456	-0.00451
	(A0 * !B0 * B1 * !Y)	0.00790	0.00785	0.00780
	(!B0 * !B1 * Y)	-0.01309	-0.01339	-0.01328
	(!B0 * !B1 * Y)	0.00653	0.00654	0.00651

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

Cell Name	When	Power(pJ)		
		first	mid	last
gf180mcu_osu_sc_gp9t3v3__oai22_1	(A0 * B0 * !Y)	0.00483	0.00484	0.00460
	(A0 * B0 * !Y)	-0.00747	-0.00759	-0.00780
	(A0 * !B0 * B1 * !Y)	0.00487	0.00484	0.00460
	(A0 * !B0 * B1 * !Y)	-0.00750	-0.00759	-0.00780
	(!B0 * !B1 * Y)	0.01324	0.01339	0.01328
	(!B0 * !B1 * Y)	-0.00646	-0.00654	-0.00649

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

Cell Name	When	Power(pJ)		
		first	mid	last
gf180mcu_osu_sc_gp9t3v3__oai22_1	(A1 * B1 * !Y)	-0.00449	-0.00456	-0.00451
	(A1 * B1 * !Y)	0.00776	0.00786	0.00780
	(A0 * !A1 * B1 * !Y)	-0.00453	-0.00456	-0.00451
	(A0 * !A1 * B1 * !Y)	0.00778	0.00786	0.00779
	(!A0 * !A1 * Y)	-0.01371	-0.01404	-0.01391
	(!A0 * !A1 * Y)	0.00172	0.00173	0.00172

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

Cell Name	When	Power(pJ)		
		first	mid	last
gf180mcu_osu_sc_gp9t3v3__oai22_1	(A1 * B1 * !Y)	0.00482	0.00485	0.00460
	(A1 * B1 * !Y)	-0.00749	-0.00758	-0.00780
	(A0 * !A1 * B1 * !Y)	0.00486	0.00485	0.00460
	(A0 * !A1 * B1 * !Y)	-0.00752	-0.00758	-0.00779
	(!A0 * !A1 * Y)	0.01400	0.01404	0.01391
	(!A0 * !A1 * Y)	-0.00172	-0.00173	-0.00172

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		first	mid	last
gf180mcu_osu_sc_gp9t3v3__oai22_1	(A1 * B0 * !Y)	-0.01314	-0.01347	-0.01336
	(A1 * B0 * !Y)	0.00654	0.00658	0.00651
	(A0 * !A1 * B0 * !Y)	-0.01315	-0.01347	-0.01335
	(A0 * !A1 * B0 * !Y)	0.00655	0.00658	0.00651
	(!A0 * !A1 * Y)	-0.01375	-0.01409	-0.01402
	(!A0 * !A1 * Y)	0.00171	0.00174	0.00172

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		first	mid	last
gf180mcu_osu_sc_gp9t3v3__oai22_1	(A1 * B0 * !Y)	0.01347	0.01351	0.01336
	(A1 * B0 * !Y)	-0.00650	-0.00654	-0.00649
	(A0 * !A1 * B0 * !Y)	0.01346	0.01351	0.01335
	(A0 * !A1 * B0 * !Y)	-0.00650	-0.00653	-0.00649
	(!A0 * !A1 * Y)	0.01408	0.01409	0.01402
	(!A0 * !A1 * Y)	-0.00171	-0.00172	-0.00172

GF180MCU_OSU_SC_GP9T3V3__OAI31_1

Truth Table

INPUT				OUTPUT
A0	A1	A2	B	Y
0	0	0	x	1
0	x	1	0	1
0	x	1	1	0
x	1	x	0	1
x	1	x	1	0
1	x	x	0	1
1	x	x	1	0

Footprint

Cell Name	Area
gf180mcu_osu_sc_gp9t3v3__oai31_1	31.11500

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	A2	B	Y
gf180mcu_osu_sc_gp9t3v3__oai31_1	0.00395	0.00402	0.00395	0.00404	0.52736

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
gf180mcu_osu_sc_gp9t3v3__oai31_1	0.00000	0.00103	0.00216

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		First	**Mid**	**Last**
gf180mcu_osu_sc_gp9t3v3__oai31_1	**A0->Y (FR)**	0.19501	1.03447	8.96826
	A1->Y (FR)	0.13793	1.11756	9.77263
	A2->Y (FR)	0.22160	0.94893	8.21896
	B->Y (FR)	0.05347	0.61238	5.45578

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		First	**Mid**	**Last**
gf180mcu_osu_sc_gp9t3v3__oai31_1	**A0->Y (RF)**	0.10829	0.48084	4.34351
	A1->Y (RF)	0.07891	0.43324	4.25359
	A2->Y (RF)	0.11836	0.51714	4.44466
	B->Y (RF)	0.10307	0.68762	5.76240

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		first	**mid**	**last**
gf180mcu_osu_sc_gp9t3v3__oai31_1	A0	0.05132	0.08226	0.27359
	A0	0.01280	0.04368	0.23486
	A1	0.04210	0.07622	0.24306
	A1	0.01295	0.04697	0.21392
	A2	0.06079	0.09246	0.33351
	A2	0.01280	0.04438	0.28543
	B	0.02351	0.08124	0.36876
	B	0.00035	0.05802	0.34435

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		first	**mid**	**last**
gf180mcu_osu_sc_gp9t3v3__oai31_1	A0	0.01898	0.04904	0.22780
	A0	0.05749	0.08768	0.26747
	A1	0.00610	0.03629	0.19824
	A1	0.03541	0.06554	0.22852
	A2	0.03002	0.06156	0.26133
	A2	0.07745	0.10917	0.31025
	B	0.00626	0.06127	0.33656
	B	0.02939	0.08444	0.36027

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

Cell Name	When	Power(pJ)		
		first	mid	last
gf180mcu_osu_sc_gp9t3v3__oai31_1	(A1 * B * !Y) + (!A1 * A2 * B * !Y)	-0.00839	-0.00849	-0.00845
	(A1 * B * !Y) + (!A1 * A2 * B * !Y)	0.00659	0.00653	0.00650
	(A1 * !B * Y)	-0.00961	-0.00972	-0.00964
	(A1 * !B * Y)	0.00658	0.00654	0.00651
	(!A1 * !B * Y)	-0.01309	-0.01339	-0.01327
	(!A1 * !B * Y)	0.00653	0.00655	0.00651

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

Cell Name	When	Power(pJ)		
		first	mid	last
gf180mcu_osu_sc_gp9t3v3__oai31_1	(A1 * B * !Y) + (!A1 * A2 * B * !Y)	0.00839	0.00849	0.00845
	(A1 * B * !Y) + (!A1 * A2 * B * !Y)	-0.00645	-0.00652	-0.00649
	(A1 * !B * Y)	0.00961	0.00972	0.00964
	(A1 * !B * Y)	-0.00646	-0.00654	-0.00649
	(!A1 * !B * Y)	0.01324	0.01339	0.01327
	(!A1 * !B * Y)	-0.00648	-0.00655	-0.00649

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

Cell Name	When	Power(pJ)		
		first	mid	last
gf180mcu_osu_sc_gp9t3v3__oai31_1	(A0 * B * !Y)	-0.00457	-0.00456	-0.00451
	(A0 * B * !Y)	0.00785	0.00785	0.00780
	(A0 * !B * Y)	-0.01303	-0.01342	-0.01333
	(A0 * !B * Y)	0.00649	0.00652	0.00651
	(!A0 * A2 * B * !Y)	-0.00454	-0.00449	-0.00442
	(!A0 * A2 * B * !Y)	0.00789	0.00785	0.00780
	(!A0 * !B * Y)	-0.01207	-0.01283	-0.01279
	(!A0 * !B * Y)	0.00652	0.00650	0.00651

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

Cell Name	When	Power(pJ)		
		first	mid	last
gf180mcu_osu_sc_gp9t3v3__oai31_1	(A0 * B * !Y)	0.00487	0.00484	0.00460
	(A0 * B * !Y)	-0.00751	-0.00759	-0.00780
	(A0 * !B * Y)	0.01327	0.01345	0.01333
	(A0 * !B * Y)	-0.00646	-0.00652	-0.00649
	(!A0 * A2 * B * !Y)	0.00498	0.00494	0.00442
	(!A0 * A2 * B * !Y)	-0.00698	-0.00709	-0.00775
	(!A0 * !B * Y)	0.01289	0.01283	0.01279
	(!A0 * !B * Y)	-0.00648	-0.00650	-0.00649

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		first	mid	last
gf180mcu_osu_sc_gp9t3v3__oai31_1	(A0 * A1 * B * !Y)	-0.01312	-0.01344	-0.01338
	(A0 * A1 * B * !Y)	0.00649	0.00659	0.00651
	(A0 * !B * Y)	-0.01322	-0.01347	-0.01339
	(A0 * !B * Y)	0.00657	0.00659	0.00651
	(A0 * !A1 * B * !Y) + (!A0 * A1 * B * !Y)	-0.01311	-0.01344	-0.01338
	(A0 * !A1 * B * !Y) + (!A0 * A1 * B * !Y)	0.00649	0.00659	0.00651
	(!A0 * A1 * !B * Y)	-0.01254	-0.01316	-0.01302
	(!A0 * A1 * !B * Y)	0.00659	0.00657	0.00651
	(!A0 * !A1 * !B * Y)	-0.01349	-0.01357	-0.01352
	(!A0 * !A1 * !B * Y)	0.00645	0.00646	0.00644

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		first	mid	last
gf180mcu_osu_sc_gp9t3v3__oai31_1	(A0 * A1 * B * !Y)	0.01351	0.01344	0.01338
	(A0 * A1 * B * !Y)	-0.00649	-0.00652	-0.00649
	(A0 * !B * Y)	0.01351	0.01349	0.01339
	(A0 * !B * Y)	-0.00649	-0.00654	-0.00649
	(A0 * !A1 * B * !Y) + (!A0 * A1 * B * !Y)	0.01350	0.01344	0.01338
	(A0 * !A1 * B * !Y) + (!A0 * A1 * B * !Y)	-0.00649	-0.00652	-0.00649
	(!A0 * A1 * !B * Y)	0.01302	0.01316	0.01302
	(!A0 * A1 * !B * Y)	-0.00650	-0.00653	-0.00649
	(!A0 * !A1 * !B * Y)	0.01355	0.01360	0.01355
	(!A0 * !A1 * !B * Y)	-0.00636	-0.00646	-0.00644

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

Cell Name	When	Power(pJ)		
		first	mid	last
gf180mcu_osu_sc_gp9t3v3__oai31_1	(!A0 * !A1 * !A2 * Y)	-0.01389	-0.01398	-0.01412
	(!A0 * !A1 * !A2 * Y)	0.00200	0.00200	0.00180

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

Cell Name	When	Power(pJ)		
		first	mid	last
gf180mcu_osu_sc_gp9t3v3__oai31_1	(!A0 * !A1 * !A2 * Y)	0.01413	0.01430	0.01418
	(!A0 * !A1 * !A2 * Y)	-0.00174	-0.00177	-0.00175

GF180MCU_OSU_SC_GP9T3V3__OR2_1

Truth Table

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

Footprint

Cell Name	Area
gf180mcu_osu_sc_gp9t3v3__or2_1	24.13000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	**B**	**Y**
gf180mcu_osu_sc_gp9t3v3__or2_1	0.00404	0.00398	1.55634

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
gf180mcu_osu_sc_gp9t3v3__or2_1	0.00000	0.00166	0.00239

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		First	**Mid**	**Last**
gf180mcu_osu_sc_gp9t3v3__or2_1	**A->Y (RR)**	0.09111	0.44583	6.27342
	B->Y (RR)	0.10926	0.54557	6.87422

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		First	**Mid**	**Last**
gf180mcu_osu_sc_gp9t3v3__or2_1	**A->Y (FF)**	0.13197	0.83526	8.44438
	B->Y (FF)	0.15549	0.76444	7.98435

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		first	mid	last
gf180mcu_osu_sc_gp9t3v3__or2_1	A	0.02158	0.08977	0.55597
	A	0.04409	0.11227	0.57669
	B	0.03263	0.10988	0.66201
	B	0.06449	0.14162	0.69352

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		first	mid	last
gf180mcu_osu_sc_gp9t3v3__or2_1	A	0.04804	0.11729	0.57924
	A	0.02543	0.09489	0.55677
	B	0.05681	0.13034	0.68094
	B	0.02480	0.09841	0.64951

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

Cell Name	When	Power(pJ)		
		first	mid	last
gf180mcu_osu_sc_gp9t3v3__or2_1	(B * Y)	-0.00462	-0.00456	-0.00451
	(B * Y)	0.00789	0.00785	0.00780

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

Cell Name	When	Power(pJ)		
		first	mid	last
gf180mcu_osu_sc_gp9t3v3__or2_1	(B * Y)	0.00488	0.00485	0.00460
	(B * Y)	-0.00753	-0.00759	-0.00780

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

Cell Name	When	Power(pJ)		
		first	**mid**	**last**
gf180mcu_osu_sc_gp9t3v3__or2_1	**(A * Y)**	-0.01308	-0.01345	-0.01338
	(A * Y)	0.00653	0.00659	0.00651

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

Cell Name	When	Power(pJ)		
		first	**mid**	**last**
gf180mcu_osu_sc_gp9t3v3__or2_1	**(A * Y)**	0.01349	0.01345	0.01338
	(A * Y)	-0.00649	-0.00652	-0.00649

GF180MCU_OSU_SC_GP9T3V3__TBUF_1

Truth Table

INPUT		OUTPUT
A	EN	Y
-	0	HiZ
0	1	0
1	1	1

Footprint

Cell Name	Area
gf180mcu_osu_sc_gp9t3v3__tbuf_1	33.97250

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	EN	Y
gf180mcu_osu_sc_gp9t3v3__tbuf_1	0.00404	0.00535	0.81673

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
gf180mcu_osu_sc_gp9t3v3__tbuf_1	0.00000	0.00185	0.00205

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		First	**Mid**	**Last**
gf180mcu_osu_sc_gp9t3v3__tbuf_1	**A->Y (RR)**	0.15352	0.65408	6.72708
	EN->Y (FR)	0.07414	0.94139	6.56566
	EN->Y (RR)	0.09251	0.59325	6.81903

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		First	**Mid**	**Last**
gf180mcu_osu_sc_gp9t3v3__tbuf_1	**A->Y (FF)**	0.14131	0.71380	6.35872
	EN->Y (FF)	0.08763	0.94139	6.56566
	EN->Y (RF)	0.03181	0.54661	7.02864

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		first	**mid**	**last**
gf180mcu_osu_sc_gp9t3v3__tbuf_1	**A**	0.04202	0.12906	0.71860
	A	0.05886	0.14576	0.73533
	EN	0.02494	0.11290	0.70635
	EN	0.04825	0.13611	0.72340

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		first	**mid**	**last**
gf180mcu_osu_sc_gp9t3v3__tbuf_1	**A**	0.05400	0.14405	0.72986
	A	0.03722	0.12734	0.71421
	EN	0.02116	0.10928	0.69807
	EN	0.05014	0.13847	0.72745

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

Cell Name	When	Power(pJ)		
		first	**mid**	**last**
gf180mcu_osu_sc_gp9t3v3__tbuf_1	**!EN**	0.01265	0.09898	0.68264
	!EN	0.03471	0.12100	0.70462

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

Cell Name	When	Power(pJ)		
		first	**mid**	**last**
gf180mcu_osu_sc_gp9t3v3__tbuf_1	**!EN**	0.02856	0.11601	0.69971
	!EN	0.00650	0.09400	0.67766

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

Cell Name	When	Power(pJ)		
		first	mid	last
gf180mcu_osu_sc_gp9t3v3__tbuf_1	(A * Y)	0.01159	0.09956	0.68416
	(A * Y)	0.03599	0.12402	0.70862
	(!A * !Y)	0.00417	0.09328	0.67856
	(!A * !Y)	0.03264	0.12163	0.70703

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

Cell Name	When	Power(pJ)		
		first	mid	last
gf180mcu_osu_sc_gp9t3v3__tbuf_1	(A * Y)	0.02324	0.11190	0.69563
	(A * Y)	-0.00122	0.08739	0.67122
	(!A * !Y)	0.02350	0.11463	0.69963
	(!A * !Y)	-0.00495	0.08616	0.67118

GF180MCU_OSU_SC_GP9T3V3__TIEH

Footprint

Cell Name	Area
gf180mcu_osu_sc_gp9t3v3__tieh	13.97000

Pin Capacitance Information

Cell Name	Max Cap(pf)
	Y
gf180mcu_osu_sc_gp9t3v3__tieh	3.44214

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
gf180mcu_osu_sc_gp9t3v3__tieh	0.00000	0.00000	0.00000

GF180MCU_OSU_SC_GP9T3V3__TIEL

Footprint

Cell Name	Area
gf180mcu_osu_sc_gp9t3v3__tiel	13.97000

Pin Capacitance Information

Cell Name	Max Cap(pf)
	Y
gf180mcu_osu_sc_gp9t3v3__tiel	5.16285

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
gf180mcu_osu_sc_gp9t3v3__tiel	0.00000	0.00000	0.00000

GF180MCU_OSU_SC_GP9T3V3__TINV_1

Truth Table

INPUT		OUTPUT
A	EN	Y
0	x	HiZ
1	0	HiZ
1	1	0

Footprint

Cell Name	Area
gf180mcu_osu_sc_gp9t3v3__tinv_1	24.44750

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	EN	Y
gf180mcu_osu_sc_gp9t3v3__tinv_1	0.00395	0.00132	0.79686

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
gf180mcu_osu_sc_gp9t3v3__tinv_1	0.00000	0.00112	0.00144

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		First	**Mid**	**Last**
gf180mcu_osu_sc_gp9t3v3__tinv_1	**A->Y (FR)**	0.11041	0.84099	8.71812
	A->Y (FR)	0.05111	0.94139	6.56566
	EN->Y (FR)	0.05111	0.94139	6.56566
	EN->Y (RR)	-0.03503	-0.70259	-1.60442

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		First	Mid	Last
gf180mcu_osu_sc_gp9t3v3__tinv_1	A->Y (RF)	0.08334	0.57318	6.23215
	A->Y (FF)	0.05111	0.94139	6.56566
	EN->Y (FF)	99999999999999999635896294965248.00000	99999999999999999635896294965248.00000	99999999999999999635896294965248.00000
	EN->Y (RF)	0.06725	0.58134	6.92089

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		first	**mid**	**last**
gf180mcu_osu_sc_gp9t3v3__tinv_1	**A**	0.04241	0.08196	0.28122
	A	0.01577	0.05516	0.25433
	EN	0.01787	0.01782	0.01784
	EN	0.01716	0.01720	0.01717

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		first	mid	last
gf180mcu_osu_sc_gp9t3v3__tinv_1	A	0.01045	0.04889	0.22932
	A	0.03695	0.07565	0.25664
	EN	9999999999999999635896294965248.00000	9999999999999999635896294965248.00000	9999999999999999635896294965248.00000
	EN	9999999999999999635896294965248.00000	9999999999999999635896294965248.00000	9999999999999999635896294965248.00000

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

Cell Name	When	Power(pJ)		
		first	**mid**	**last**
gf180mcu_osu_sc_gp9t3v3__tinv_1	**(EN * !Y)**	0.01678	0.10477	0.62988
	(EN * !Y)	0.03608	0.12422	0.64925
	(!EN * Y)	-0.01224	-0.01312	-0.01324
	(!EN * Y)	0.00800	0.00730	0.00712
	(!EN * !Y)	-0.00310	-0.00141	-0.00136
	(!EN * !Y)	0.01486	0.01632	0.01634

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

Cell Name	When	Power(pJ)		
		first	**mid**	**last**
gf180mcu_osu_sc_gp9t3v3__tinv_1	**(!EN * Y)**	0.01348	0.01366	0.01355
	(!EN * Y)	-0.00636	-0.00653	-0.00647

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

Cell Name	When	Power(pJ)		
		first	mid	last
gf180mcu_osu_sc_gp9t3v3__tinv_1	(A * !Y)	-0.00001	-0.00000	-0.00000
	(A * !Y)	0.00651	0.00654	0.00651
	(!A * Y)	0.00339	0.00339	0.00314
	(!A * Y)	0.00531	0.00525	0.00505

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

Cell Name	When	Power(pJ)		
		first	mid	last
gf180mcu_osu_sc_gp9t3v3__tinv_1	(A * !Y)	0.00039	0.00012	0.00009
	(A * !Y)	-0.00605	-0.00639	-0.00639
	(!A * Y)	0.00063	0.00063	0.00063
	(!A * Y)	-0.00175	-0.00176	-0.00175

GF180MCU_OSU_SC_GP9T3V3__XNOR2_1

Truth Table

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

Footprint

Cell Name	Area
gf180mcu_osu_sc_gp9t3v3__xnor2_1	40.64000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
gf180mcu_osu_sc_gp9t3v3__xnor2_1	0.00806	0.00798	0.78925

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
gf180mcu_osu_sc_gp9t3v3__xnor2_1	0.00000	0.00288	0.00353

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			First	Mid	Last
gf180mcu_osu_sc_gp9t3v3__xnor2_1	**A->Y (RR)**	**B**	0.15057	0.64067	6.49144
	A->Y (FR)	**!B**	0.11222	1.01224	9.84618
	B->Y (RR)	**A**	0.12126	0.62708	6.65943
	B->Y (FR)	**!A**	0.13276	0.86357	8.68525

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			First	Mid	Last
gf180mcu_osu_sc_gp9t3v3__xnor2_1	**A->Y (FF)**	**B**	0.16445	0.75328	6.42840
	A->Y (RF)	**!B**	0.07443	0.53805	6.11426
	B->Y (FF)	**A**	0.12382	0.70322	6.37809
	B->Y (RF)	**!A**	0.10564	0.59747	6.21650

Power Information

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

Cell Name	Input	When	Power(pJ)		
			first	**mid**	**last**
gf180mcu_osu_sc_gp9t3v3__xnor2_1	**A**	**B**	0.03150	0.11820	0.70846
	A	**B**	0.06445	0.15105	0.74078
	A	**!B**	0.06266	0.19071	0.94275
	A	**!B**	0.01841	0.14620	0.89852
	B	**A**	0.01355	0.10133	0.69052
	B	**A**	0.05396	0.14182	0.73084
	B	**!A**	0.07188	0.19987	0.99091
	B	**!A**	0.01824	0.14604	0.93700

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

Cell Name	Input	When	Power(pJ)		
			first	**mid**	**last**
gf180mcu_osu_sc_gp9t3v3__xnor2_1	**A**	**B**	0.07882	0.16839	0.75300
	A	**B**	0.04752	0.13712	0.72262
	A	**!B**	0.02549	0.14696	0.89953
	A	**!B**	0.06906	0.19082	0.94320
	B	**A**	0.06449	0.15440	0.74101
	B	**A**	0.02375	0.11386	0.70118
	B	**!A**	0.03665	0.16184	0.93352
	B	**!A**	0.08960	0.21503	0.98716

GF180MCU_OSU_SC_GP9T3V3__XOR2_1

Truth Table

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

Footprint

Cell Name	Area
gf180mcu_osu_sc_gp9t3v3__xor2_1	42.54500

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
gf180mcu_osu_sc_gp9t3v3__xor2_1	0.00798	0.00801	0.79014

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
gf180mcu_osu_sc_gp9t3v3__xor2_1	0.00000	0.00288	0.00329

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			First	**Mid**	**Last**
gf180mcu_osu_sc_gp9t3v3__xor2_1	**A->Y (RR)**	**!B**	0.12136	0.62747	6.66700
	A->Y (FR)	**B**	0.13483	0.86447	8.69415
	B->Y (RR)	**!A**	0.16005	0.66627	6.70185
	B->Y (FR)	**A**	0.10455	0.81826	8.60272

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			First	**Mid**	**Last**
gf180mcu_osu_sc_gp9t3v3__xor2_1	**A->Y (FF)**	**!B**	0.12378	0.70349	6.38493
	A->Y (RF)	**B**	0.10409	0.59731	6.22156
	B->Y (FF)	**!A**	0.13232	0.69281	6.17699
	B->Y (RF)	**A**	0.09892	0.74032	7.40536

Power Information

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

Cell Name	Input	When	Power(pJ)		
			first	**mid**	**last**
gf180mcu_osu_sc_gp9t3v3__xor2_1	**A**	**B**	0.07710	0.20487	0.99711
	A	**B**	0.02851	0.15619	0.94818
	A	**!B**	0.01211	0.09999	0.68920
	A	**!B**	0.05334	0.14119	0.73024
	B	**A**	0.06408	0.18880	0.96462
	B	**A**	0.02037	0.14493	0.92084
	B	**!A**	0.02804	0.11392	0.70278
	B	**!A**	0.06403	0.15010	0.73883

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

Cell Name	Input	When	Power(pJ)		
			first	**mid**	**last**
gf180mcu_osu_sc_gp9t3v3__xor2_1	**A**	**B**	0.03064	0.15579	0.92722
	A	**B**	0.07986	0.20538	0.97732
	A	**!B**	0.06577	0.15569	0.74265
	A	**!B**	0.02442	0.11450	0.70283
	B	**A**	0.03117	0.15417	0.90318
	B	**A**	0.07544	0.19883	0.94742
	B	**!A**	0.07037	0.16051	0.74752
	B	**!A**	0.03310	0.12339	0.71044