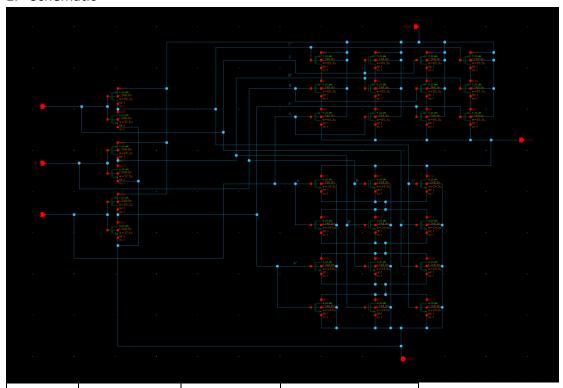
■PART1 XOR

1. Schematic



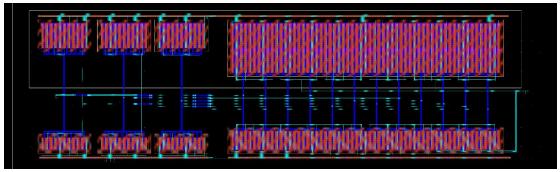
m0	p_33_mm	w=65.28e-6	l=340e-9
m1	p_33_mm	w=65.28e-6	l=340e-9
m2	p_33_mm	w=65.28e-6	l=340e-9
m3	p_33_mm	w=65.28e-6	l=340e-9
m4	p_33_mm	w=65.28e-6	l=340e-9
m5	p_33_mm	w=65.28e-6	l=340e-9
m6	p_33_mm	w=65.28e-6	l=340e-9
m7	p_33_mm	w=65.28e-6	l=340e-9
m8	p_33_mm	w=65.28e-6	l=340e-9
m9	p_33_mm	w=65.28e-6	l=340e-9
m10	p_33_mm	w=65.28e-6	l=340e-9
m11	p_33_mm	w=65.28e-6	l=340e-9
m12	n_33_mm	w=24.5e-6	l=340e-9
m13	n_33_mm	w=24.5e-6	l=340e-9
m14	n_33_mm	w=24.5e-6	l=340e-9
m15	n_33_mm	w=24.5e-6	l=340e-9
m16	n_33_mm	w=24.5e-6	l=340e-9
m17	n_33_mm	w=24.5e-6	l=340e-9
m18	n_33_mm	w=24.5e-6	l=340e-9
m19	n_33_mm	w=24.5e-6	l=340e-9

m20	n_33_mm	w=24.5e-6	l=340e-9
m21	n_33_mm	w=24.5e-6	I=340e-9
m22	n_33_mm	w=24.5e-6	l=340e-9
m23	n_33_mm	w=24.5e-6	I=340e-9
m24	n_33_mm	w=32.64e-6	l=340e-9
m25	p_33_mm	w=65.28e-6	l=340e-9
m26	p_33_mm	w=65.28e-6	l=340e-9
m27	p_33_mm	w=65.28e-6	l=340e-9
m28	n_33_mm	w=32.64e-6	l=340e-9
m29	n_33_mm	w=32.64e-6	I=340e-9

2. Waveform

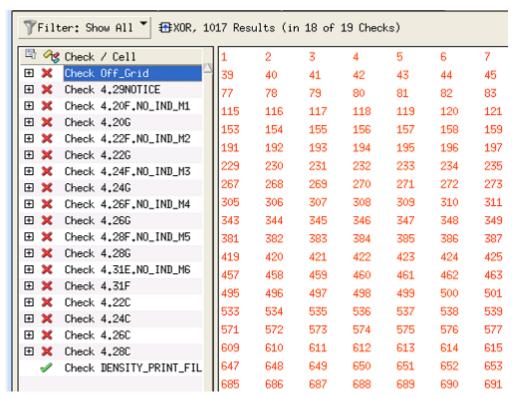


3. layout

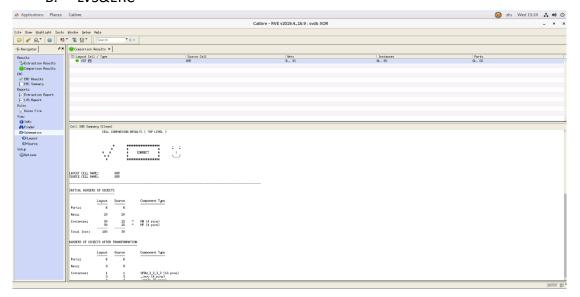


4. DRC & ERC & LVS

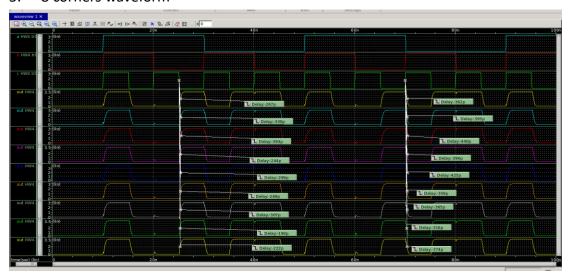
A. DRC



B. LVS&ERC



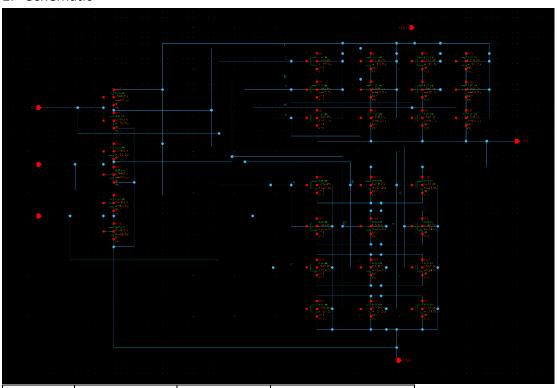
5. 8 corners waveform



mode	VDD	temp	ri	ise	fall			
TT	3.3	25		267	362			
SS	2.97	0		330	395		24%	9%
SS	2.97	75		393	440		47%	22%
SS	3.63	0		244	394		9%	9%
SS	3.63	75		299	425		12%	17%
FF	2.97	0		249	359		7%	1%
FF	2.97	75		307	365		15%	1%
FF	3.63	0		190	316		29%	13%
FF	3.63	75		222	374		17%	3%

■PART2 XNOR

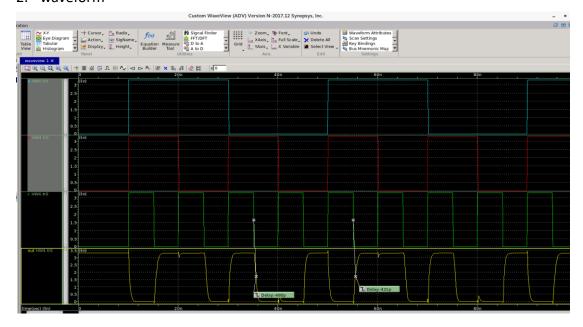
1. Schematic



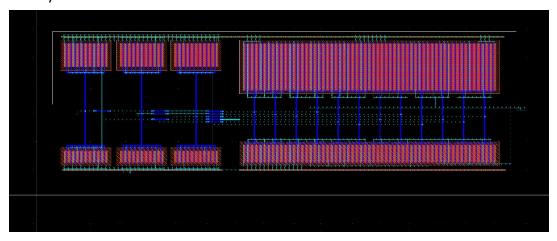
m1 p 33 mm w=65.28e-6 l=340e-9	
m1 p_33_mm w=65.28e-6 l=340e-9	
m2 p_33_mm w=65.28e-6 l=340e-9	
m3 p_33_mm w=65.28e-6 l=340e-9	
m4 p_33_mm w=65.28e-6 l=340e-9	
m5 p_33_mm w=65.28e-6 l=340e-9	
m6 p_33_mm w=65.28e-6 l=340e-9	
m7 p_33_mm w=65.28e-6 l=340e-9	
m8 p_33_mm w=65.28e-6 l=340e-9	
m9 p_33_mm w=65.28e-6 l=340e-9	
m10 p_33_mm w=65.28e-6 l=340e-9	
m11 p_33_mm w=65.28e-6 l=340e-9	
m12 n_33_mm w=24.5e-6 l=340e-9	
m13 n_33_mm w=24.5e-6 l=340e-9	
m14 n_33_mm w=24.5e-6 l=340e-9	
m15	
m16	
m17	
m18	
m19	

m20	n_33_mm	w=24.5e-6	I=340e-9
m21	n_33_mm	w=24.5e-6	I=340e-9
m22	n_33_mm	w=24.5e-6	l=340e-9
m23	n_33_mm	w=24.5e-6	I=340e-9
m24	n_33_mm	w=32.64e-6	I=340e-9
m25	p_33_mm	w=65.28e-6	I=340e-9
m26	p_33_mm	w=65.28e-6	l=340e-9
m27	p_33_mm	w=65.28e-6	I=340e-9
m28	n_33_mm	w=32.64e-6	I=340e-9
m29	n_33_mm	w=32.64e-6	I=340e-9

2. waveform

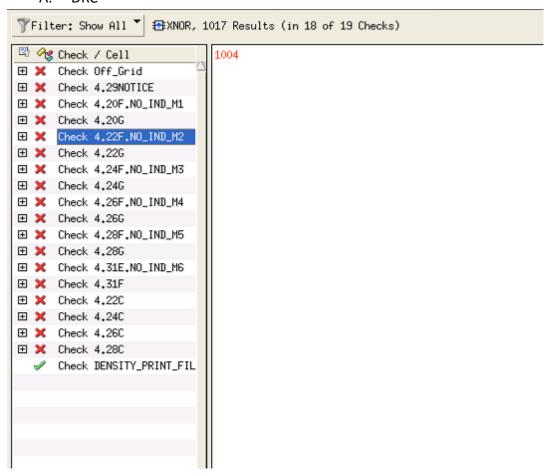


3. Layout

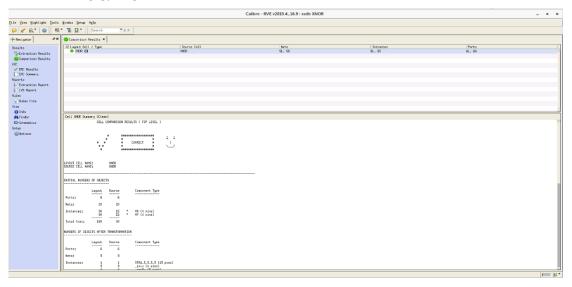


4. DRC & ERC & LVS

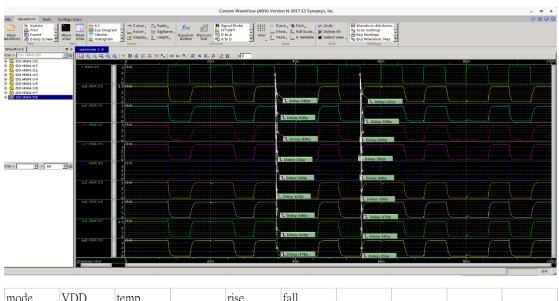
A. DRC



B. LVS & ERC



5. 8 corners waveform



mode	VDD	temp	rise	fall		
TT	3.3	25	421	480		
SS	2.97	0	538	506	28%	5%
SS	2.97	75	640	604	52%	26%
SS	3.63	0	392	501	7%	4%
SS	3.63	75	469	590	11%	23%
FF	2.97	0	399	420	5%	13%
FF	2.97	75	470	489	12%	2%
FF	3.63	0	301	418	29%	13%
FF	3.63	75	355	478	16%	0%