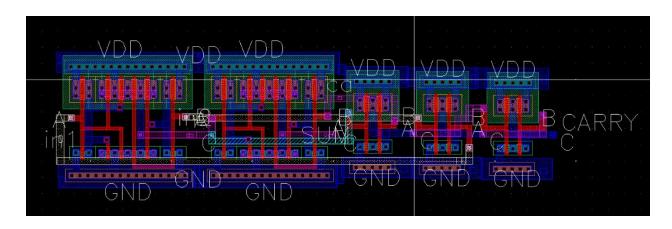
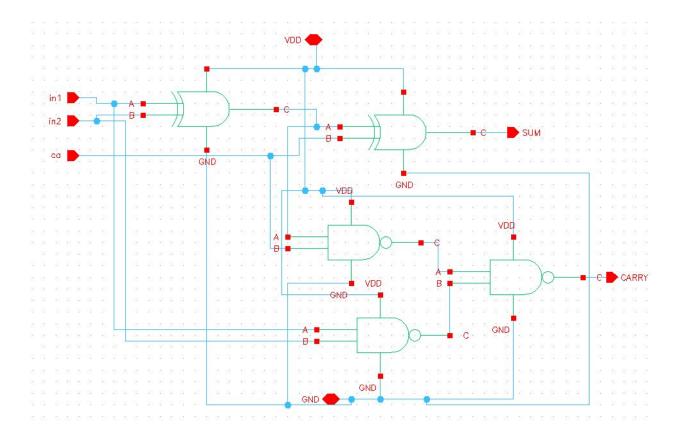
1-bit adder layout



1-bit adder schematic



```
CPU TIME = 00:00:00 TOTAL TIME = 00:00:01
******** Summary of rule violations for cell "1bitadder layout" *******
Total errors found: 0
```

LVS

Net-list summary for /home/ugrads/k/khoadiep/cadence/LVS/schematic/netlist count

Count		
25	nets	
7	terminals	
18	pmos	
18	nmos	

Terminal	corresp	ondence points
N24	N3	CARRY
N18	N1	GND
N19	N5	SUM
N23	N4	VDD
N20	N7	ca
N22	NØ	in1
N21	N9	in2

Devices in the netlist but not in the rules: pcapacitor

Devices in the rules but not in the netlist: cap nfet pfet nmos4 pmos4

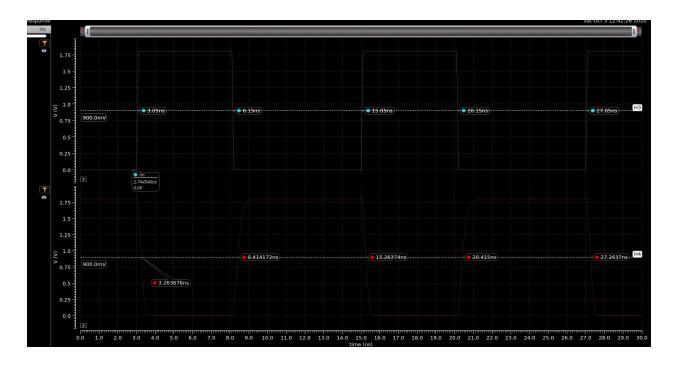
The net-lists match.

	layout	schematic
	instances	
un-matched	0	0
rewired	0	0
size errors	0	0
pruned	0	0
active	36	36
total	36	36
	nets	
un-matched	0	0
merged	0	0
pruned	0	0
active	25	25
total	25	25
	terminals	
un-matched	0	0
matched but		
different type	0	0
total	7	7

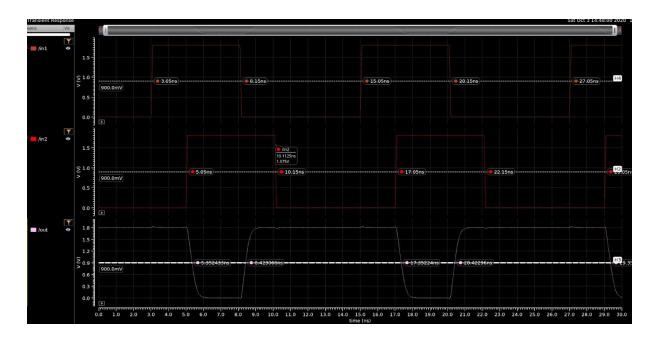
Delays

Gate	Rising Delay (ns)	Falling Delay(ns)	% Error
Inverter	0.234	0.214	8.92857
NAND	0.2924	0.2731	6.84953
XOR	0.423958	0.41072	3.172

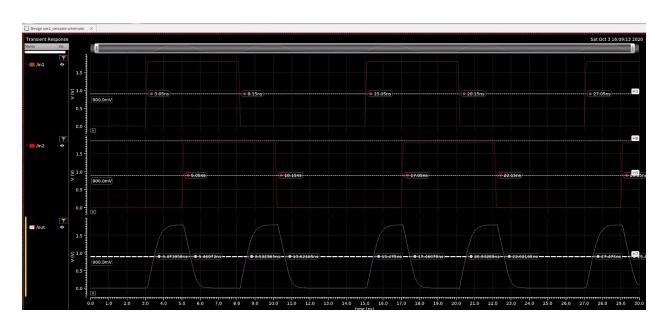
Inverter Waveform



NAND Waveform



XOR Waveform



Full Adder



Power Dissipations

Gate	Voltage Source	Value
Inverter	VDD	-0.00001162
Inverter	in	-0.0000004526
NAND	VDD	-0.0000004116
NAND	in1	-0.0000001804
NAND	in2	-0.0000001671
XOR	VDD	-0.00003639
XOR	in1	-0.000000320
XOR	in2	-0.0000003334
Full Adder	VDD	-0.0001436
Full Adder	A	-0.000004268
Full Adder	В	-0.000000008149
Full Adder	Cin	-0.00000001195

Maximum Frequency



Period: 13ns

Max Frequency: 77 MHz