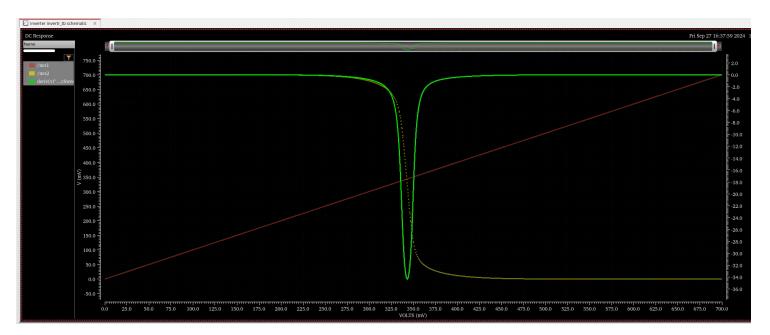
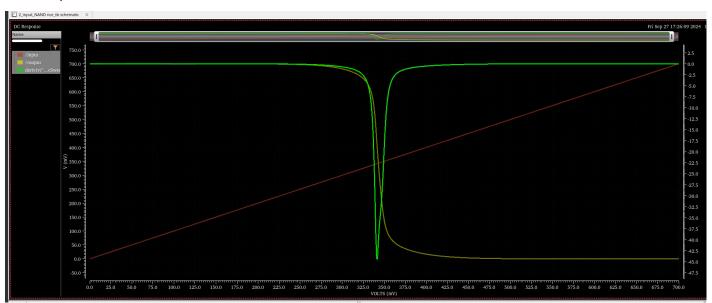
1) INVERTER



Gain at Vin = Vout is -34.324

Threshold voltage 342.6 mV

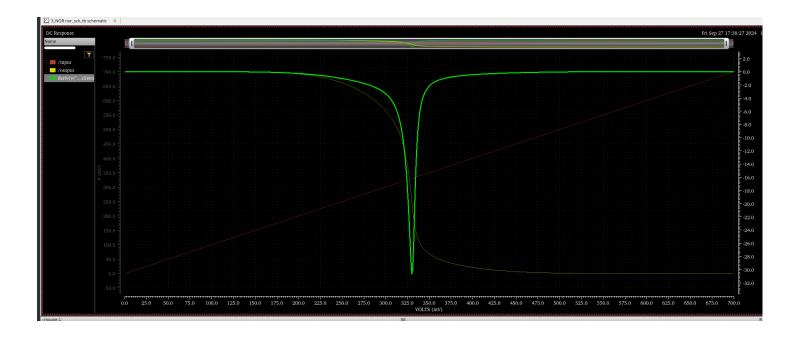
2) NAND



Gain at Vin = Vout is -33.792

Threshold voltage = 348.6 mV

3) 3 input nor

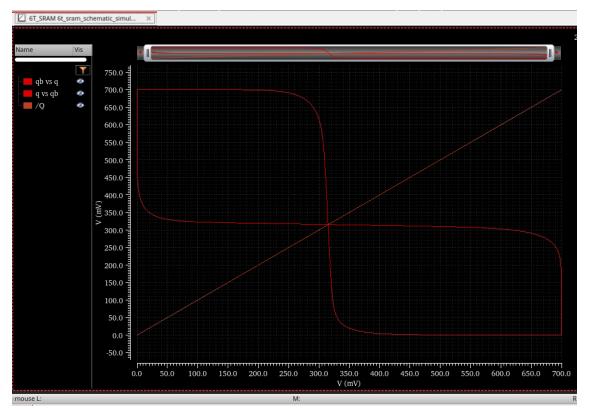


Gain = -55.6

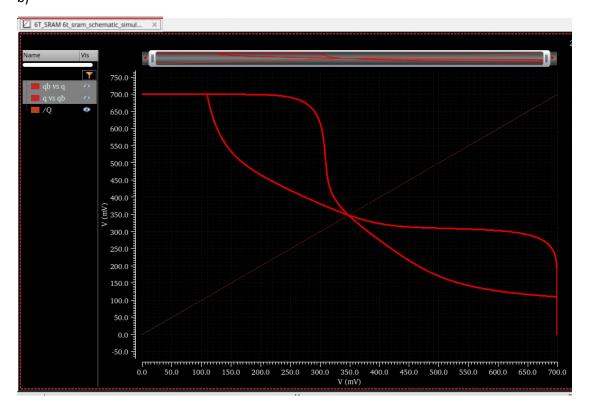
Threshold voltage = 343.2 mV

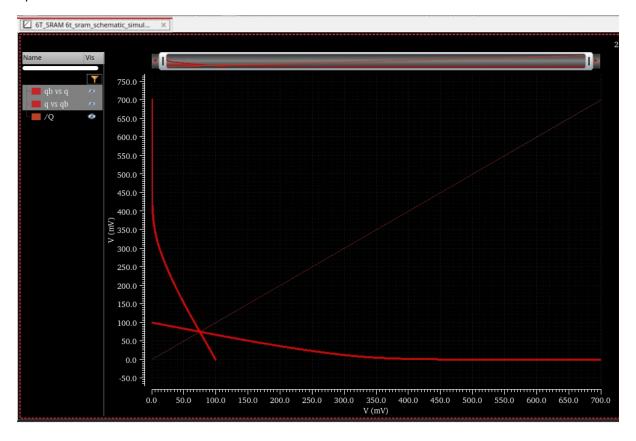
4) SRAM

a)

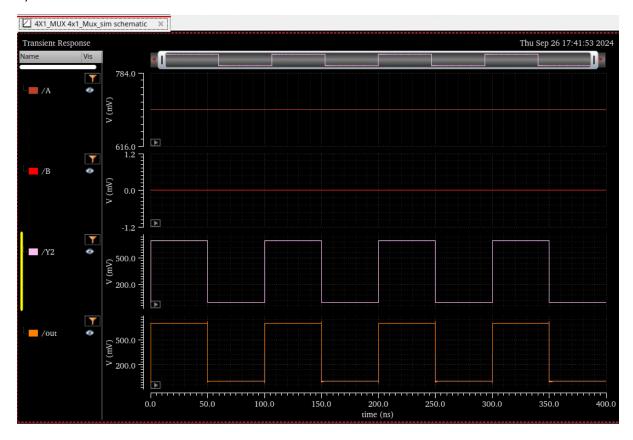


b)





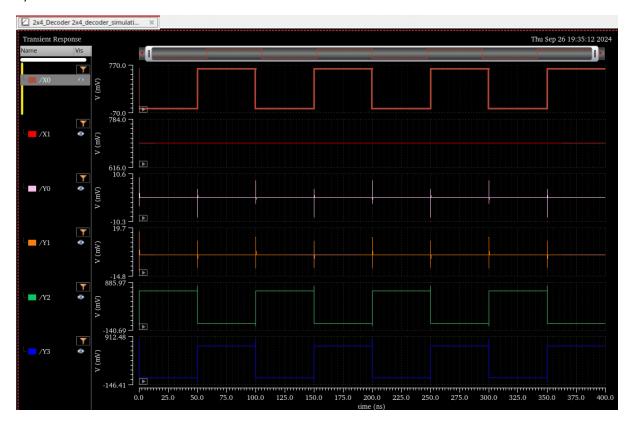
5) 4X1 MUX



Delay (edge1: rising and edge2: falling): 52.11E-9

Delay (edge1: falling and edge2: rising): -47.39E-9

6) 2x4 DECODER



Y3 and Y2 are the only outputs that changes with X0

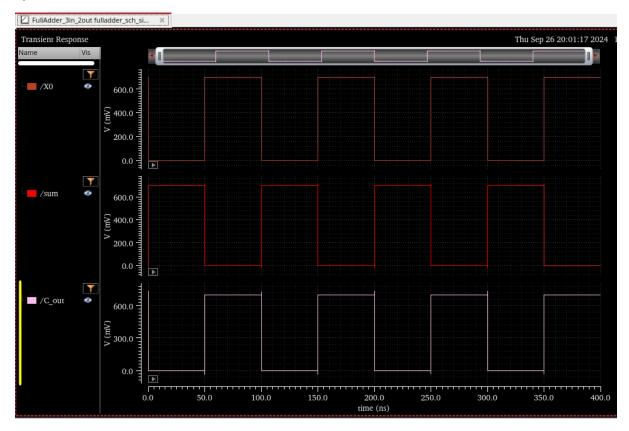
Delay for Y2: Edge type1 rising: 7.221E-12

: Edge type1 falling: 9.354E-12

Delay for Y3: Edge type1 rising: -50.8E-9

: Edge type1 falling: 50.15E-9

7) FULL ADDER



Delay for sum: Edge type1 rising: 27.68E-12

: Edge type1 falling: 21.76E-12

Delay for Co: Edge type1 rising: -49.86E-9

: Edge type1 falling: 51.22E-9