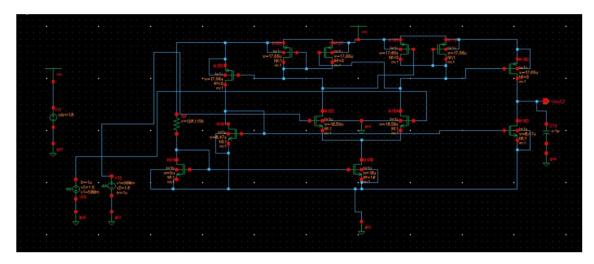
Comparator with hysteresis(Technology – UMC 180)

Schematic:



Plots:

Varying the common mode voltage Vcm

Vin:

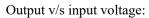


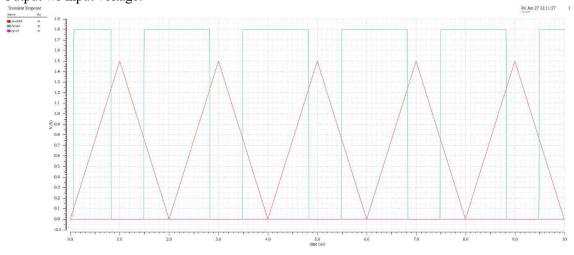
1.Simulating at 27oC, VDD = 1.8 V, and TT corner

Hysteresis plot:

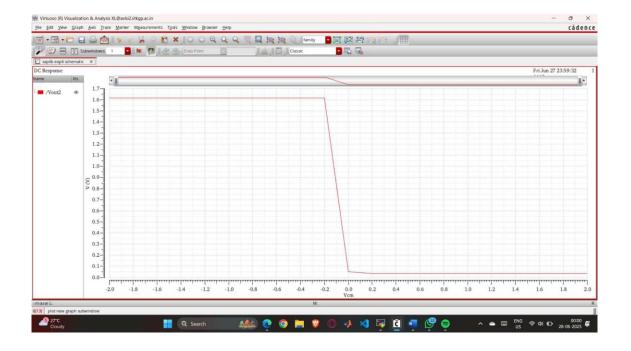


Vhys=188.4303mV at 27 degree Celcius, TT corner, Vdd=1.8V,Vcm=1V





2. Simulating at 125oC, VDD = 1.62 V, and SS corner, Vcm=1V Hysteresis plot:



3. Simulating at -40oC, VDD = 1.98 V, FF corner, Vcm=1V

Hysteresis plot:

