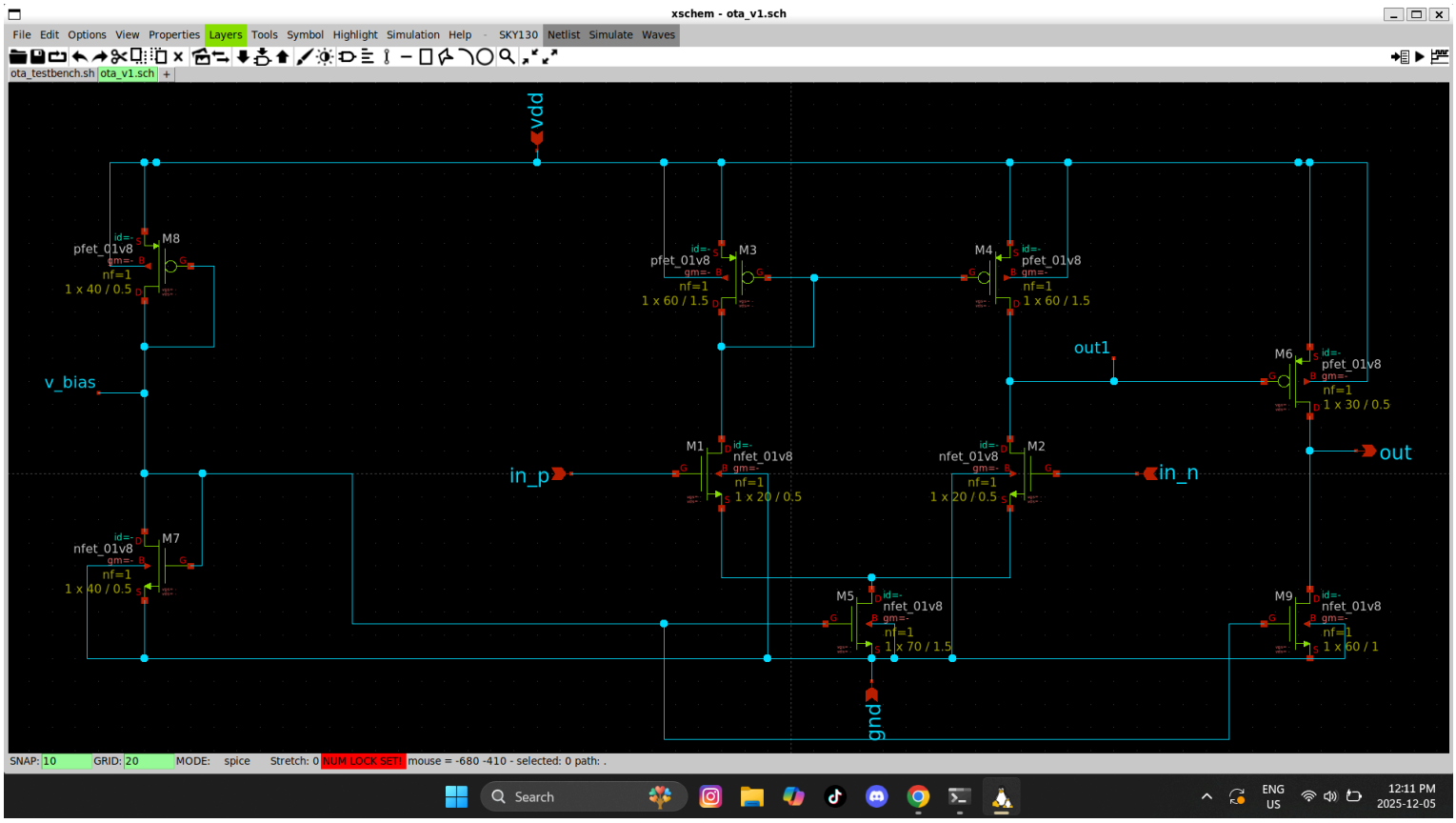
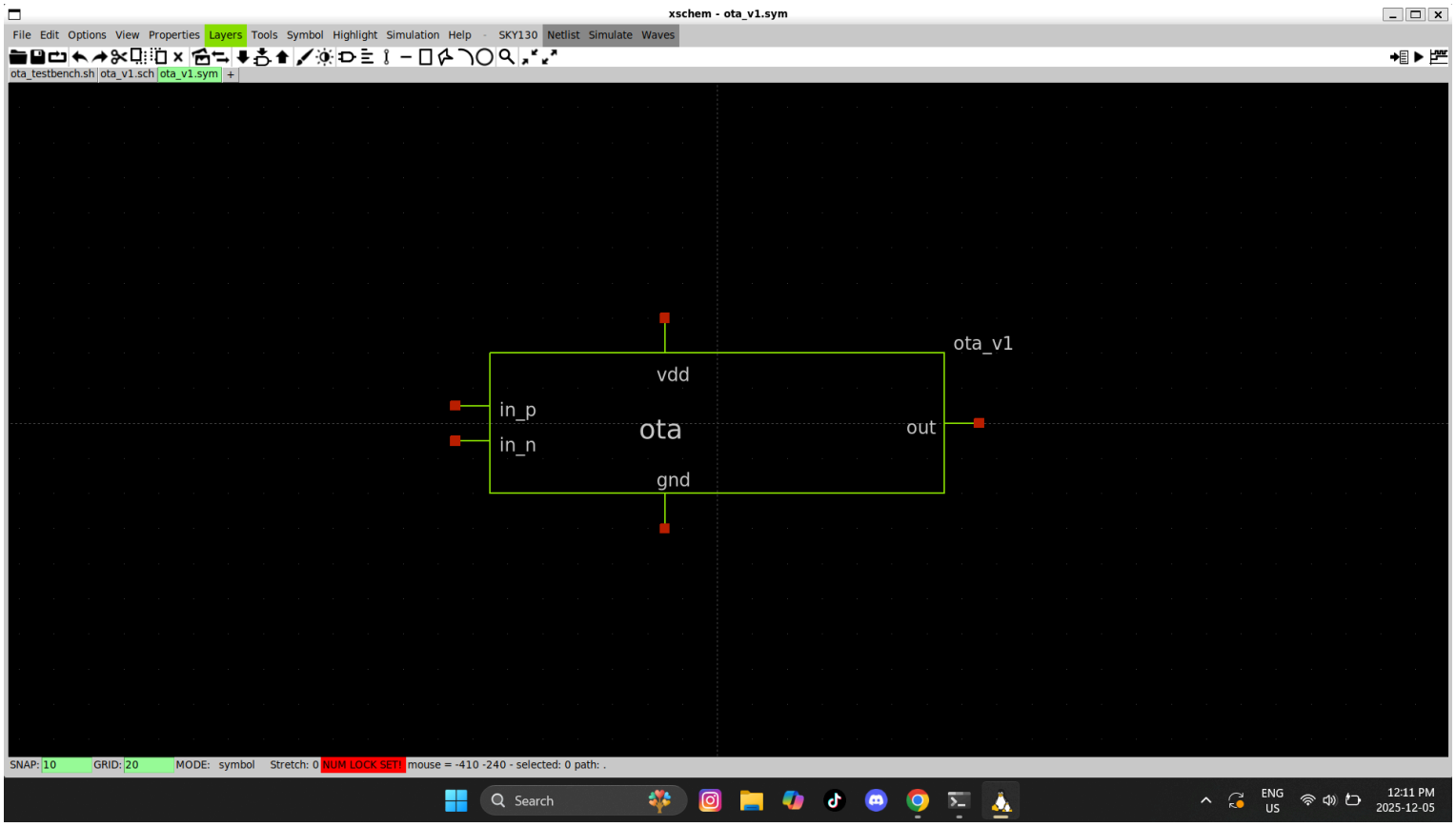
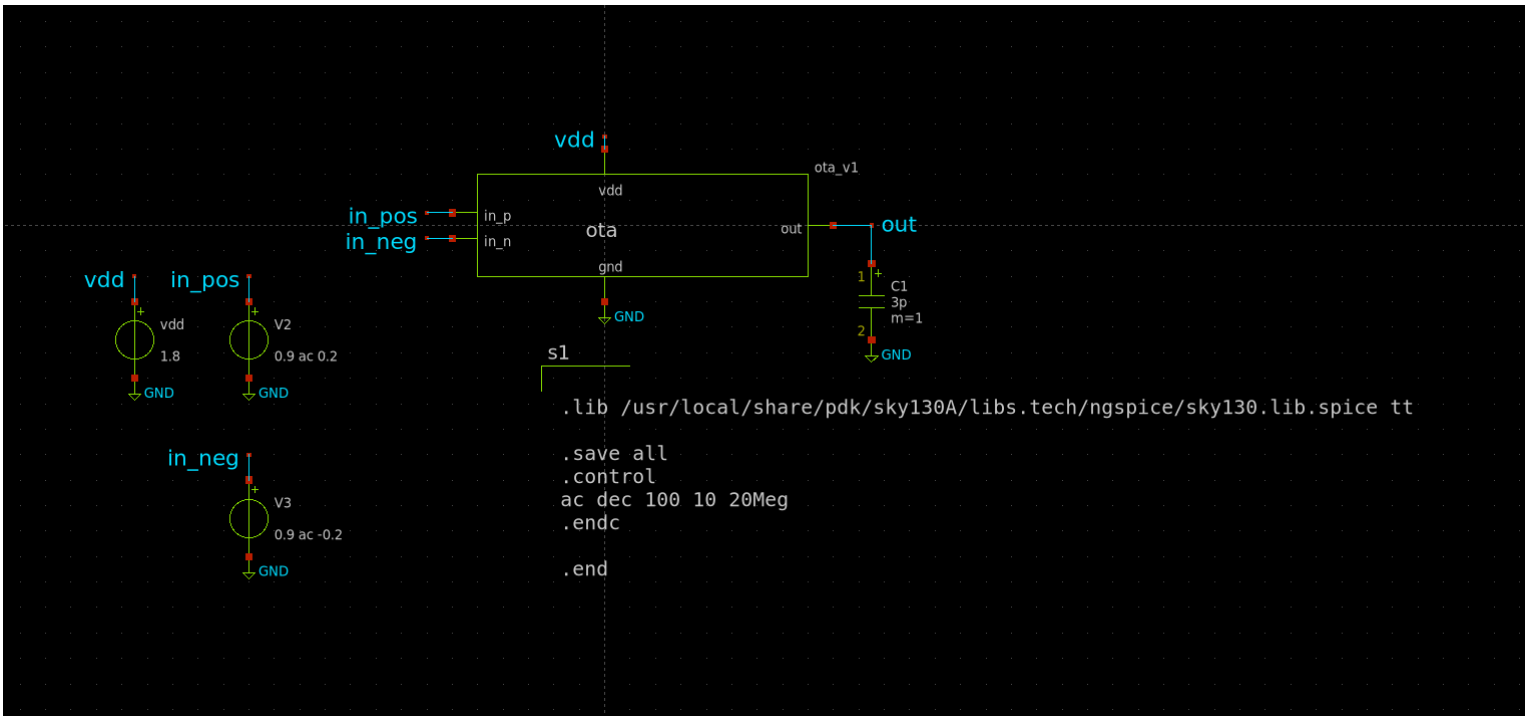
Schematic Block:



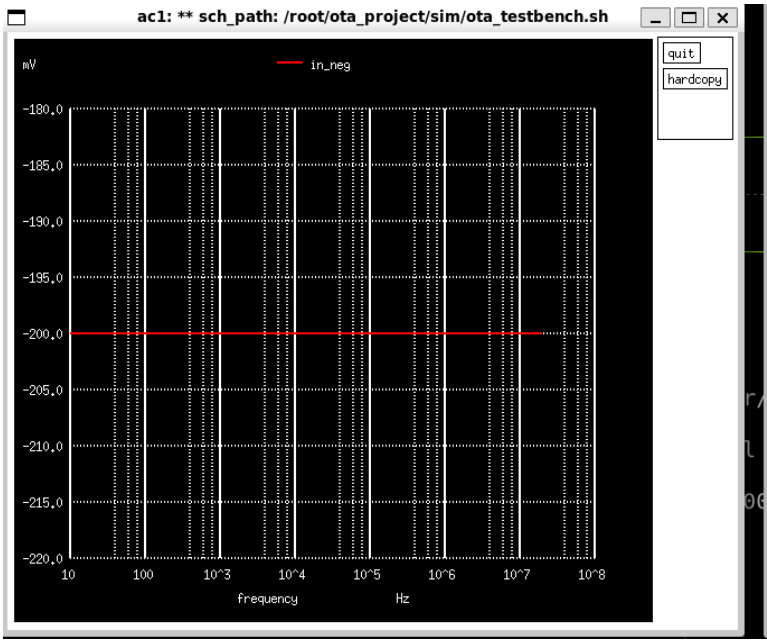
Symbol Block:

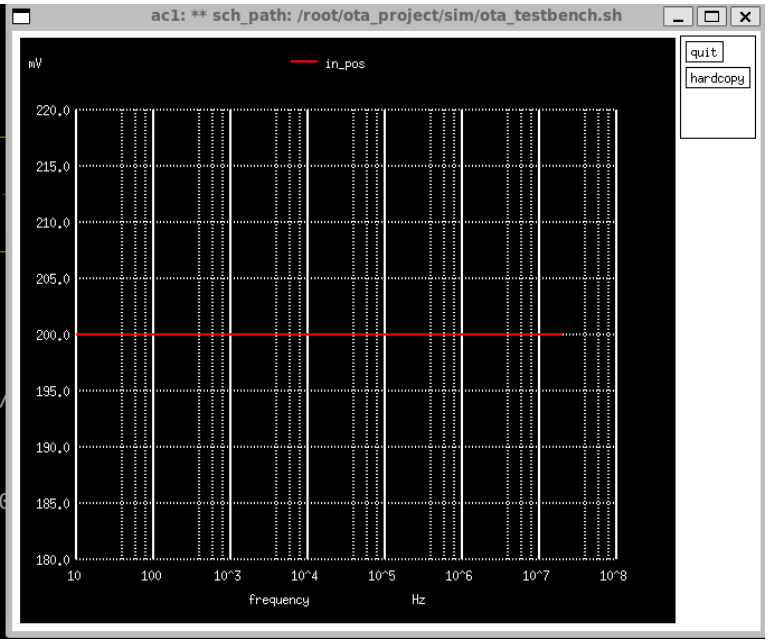


Testbench Block (AC Sweep):

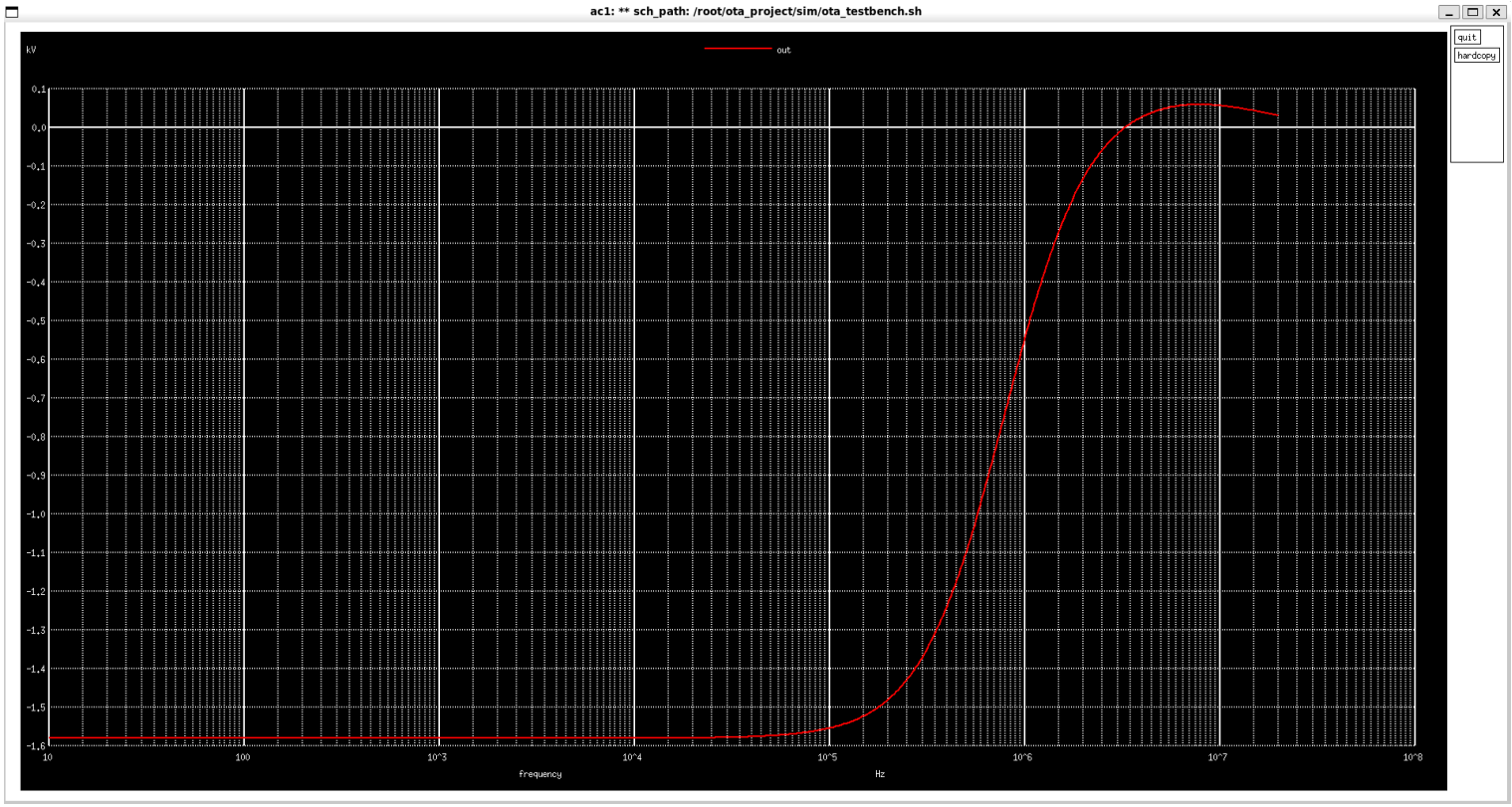


AC Input Signals (AC Sweep):

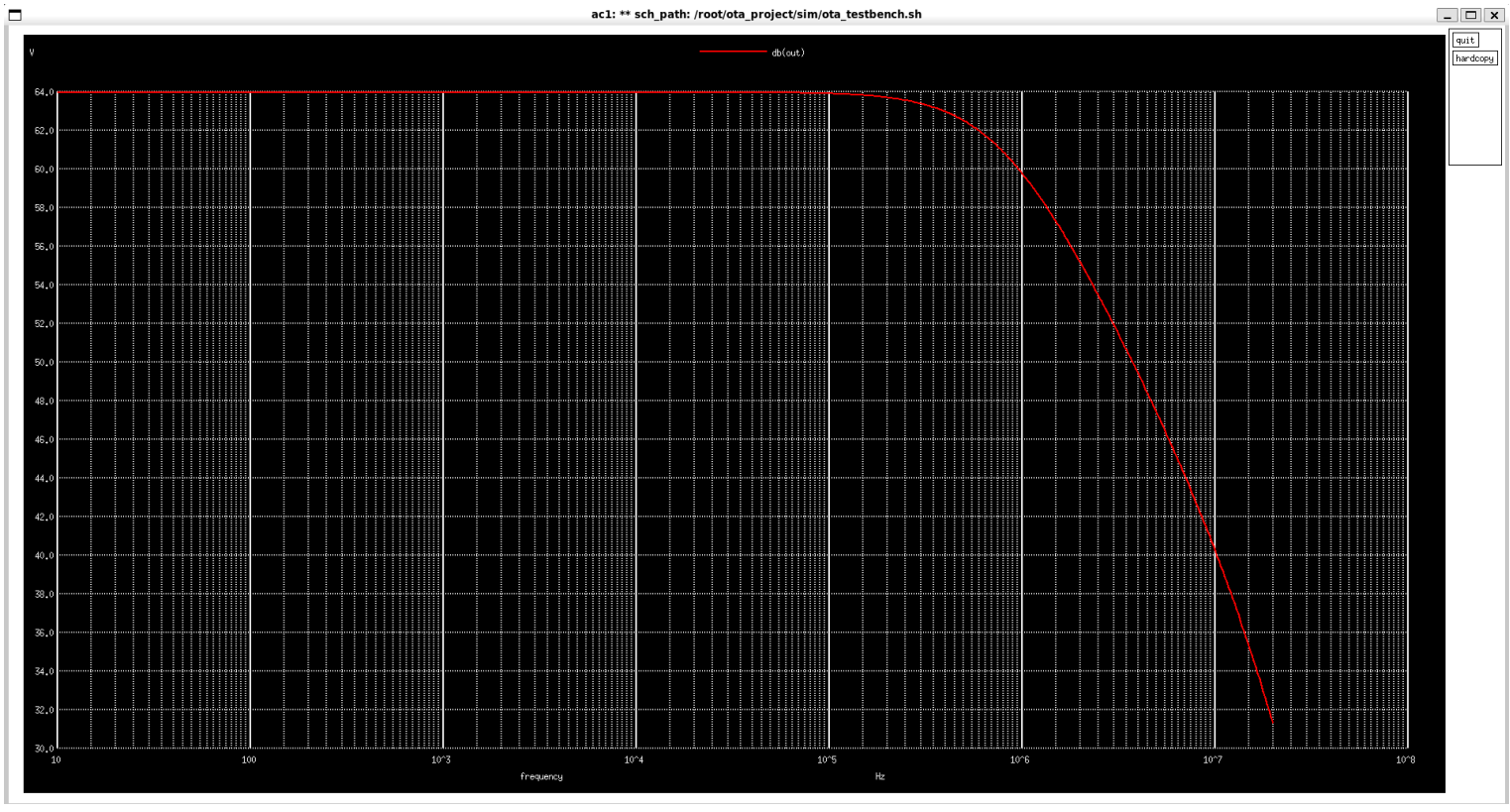




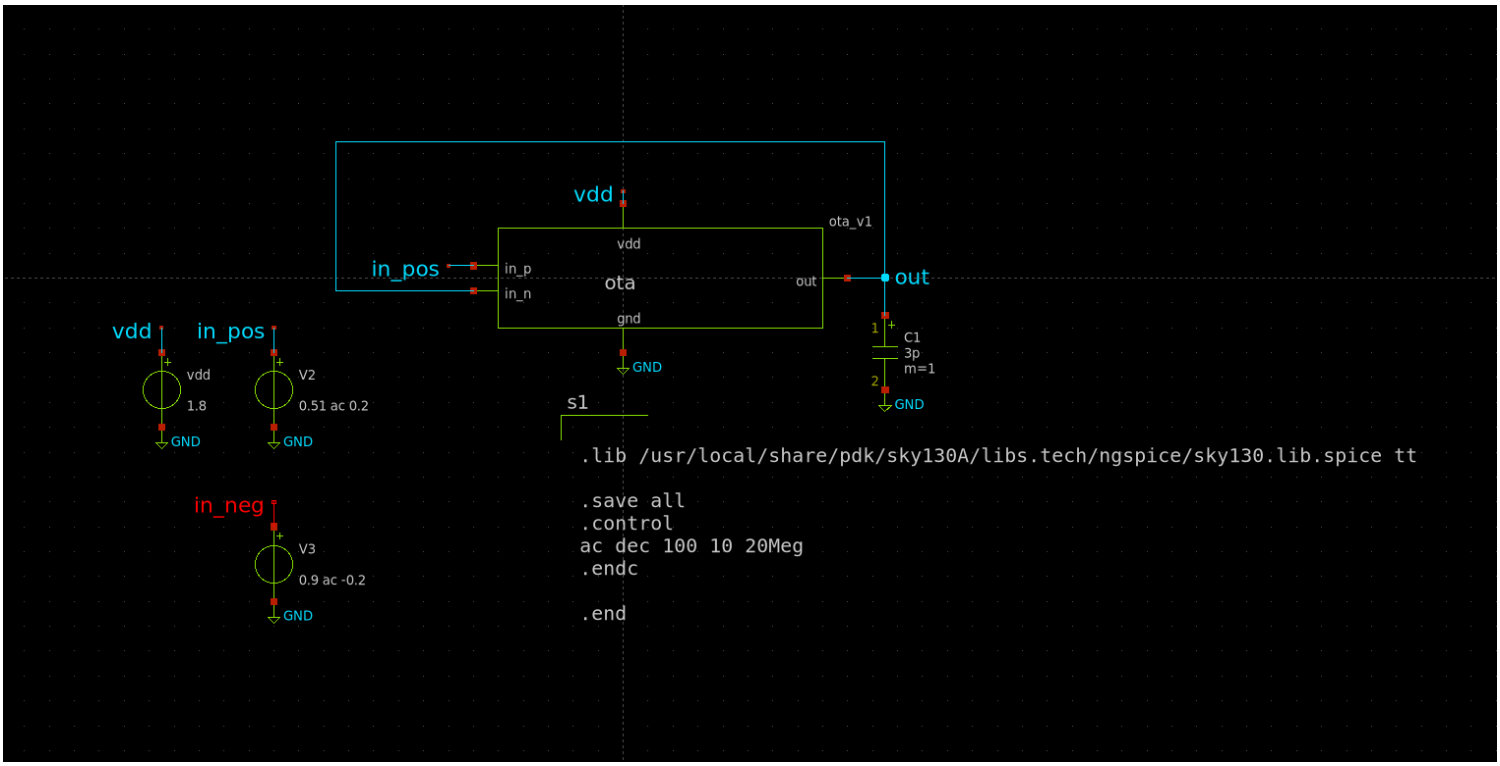
AC Output Signal (AC Sweep):



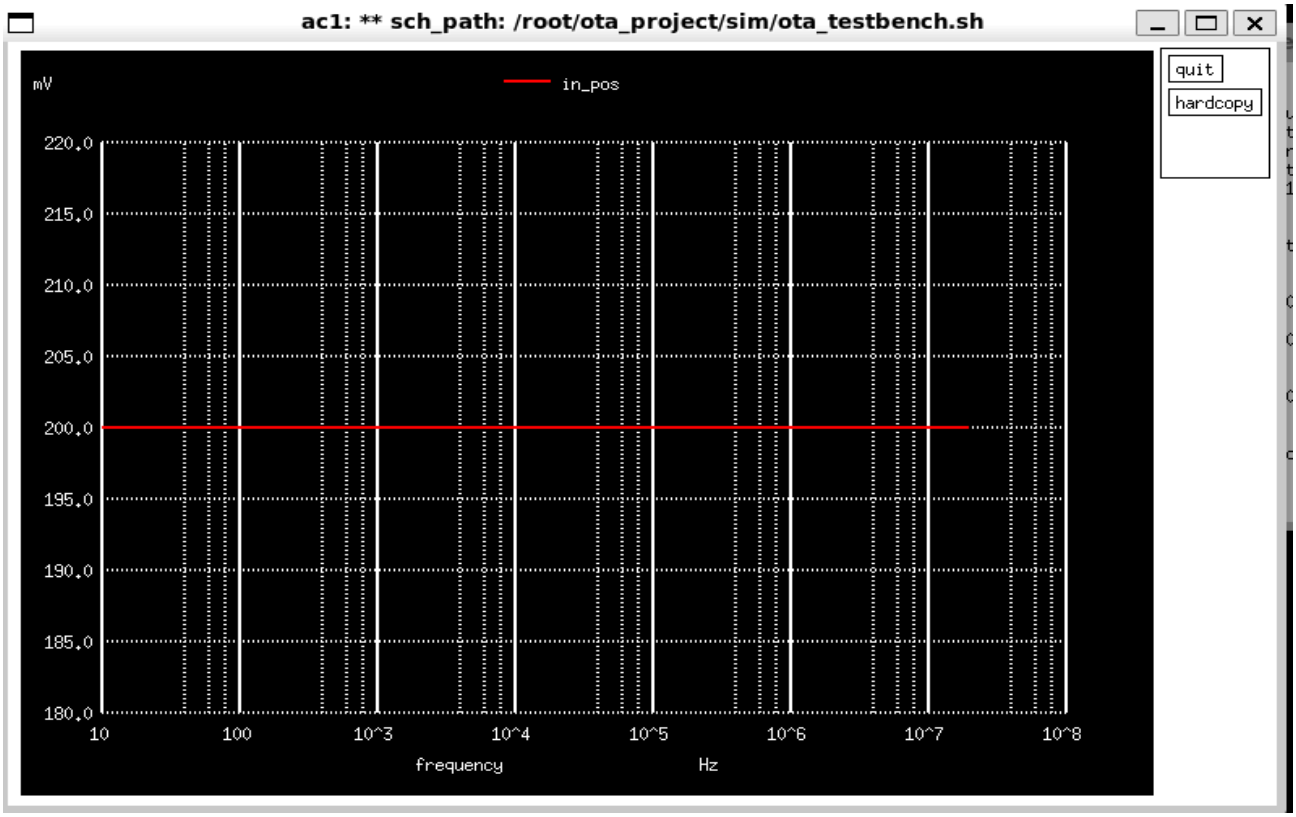
AC Gain[dB] at Output (AC Sweep):



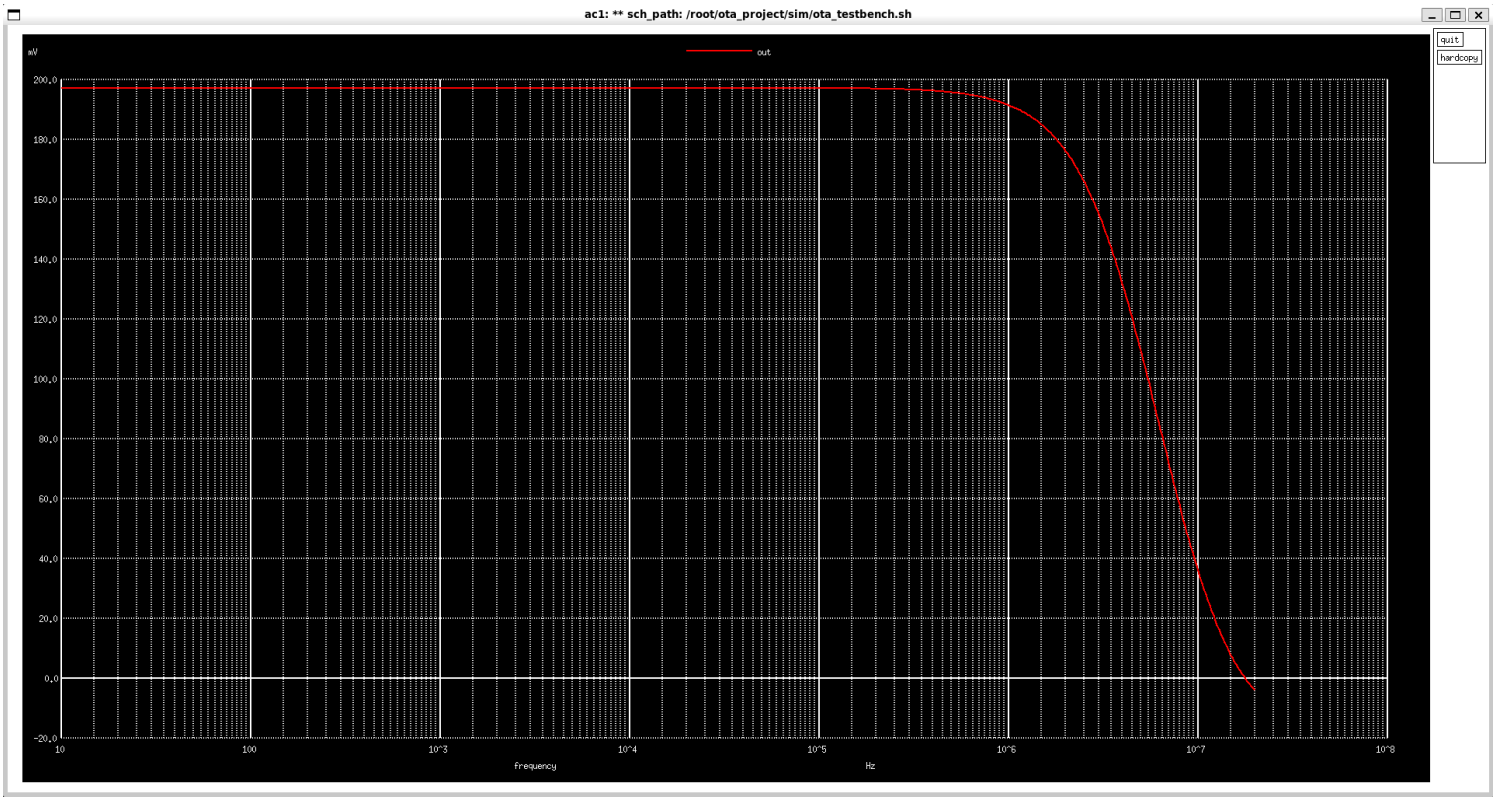
Testbench Block (Unity Feedback Testing):



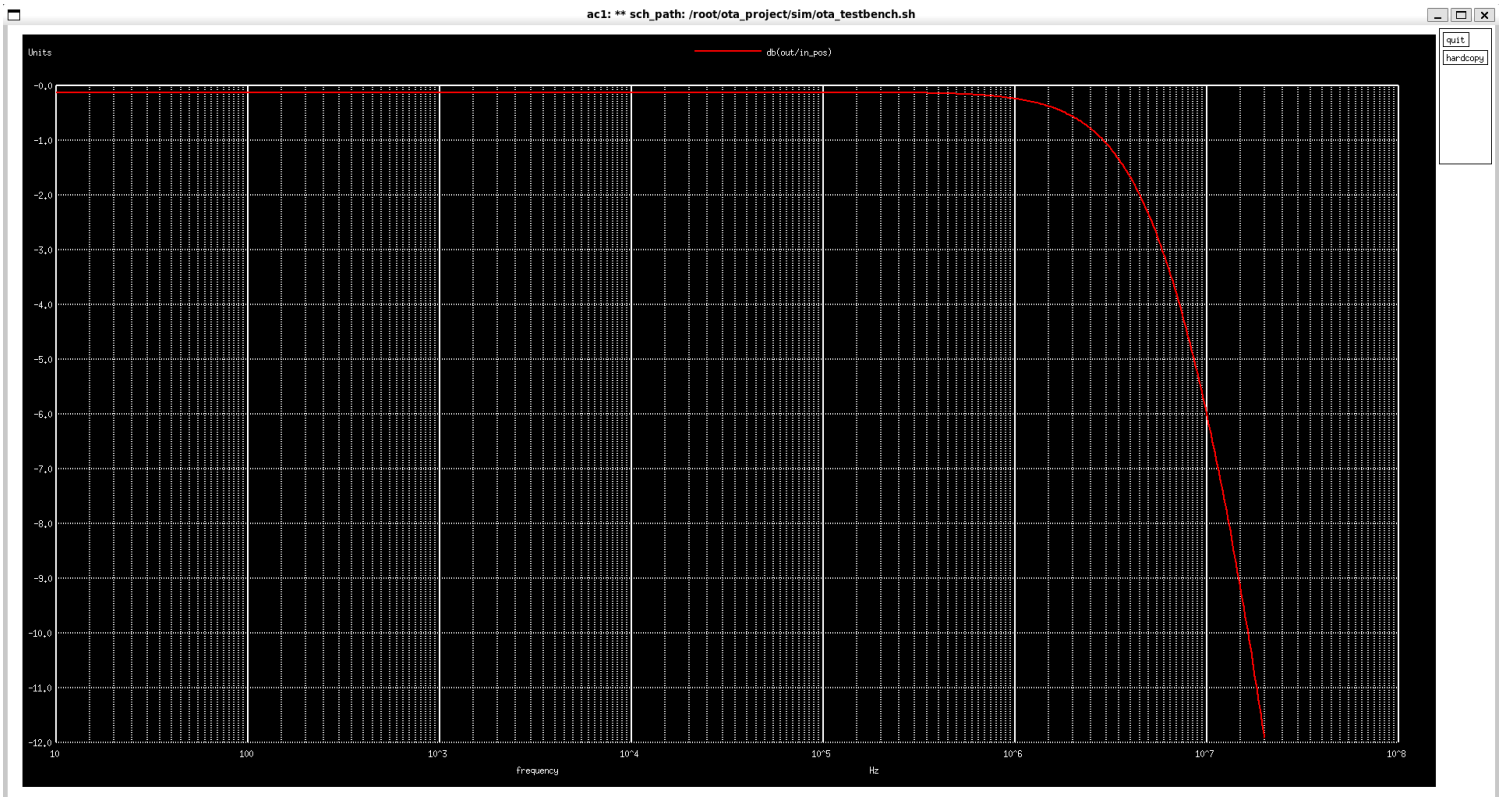
AC Input Signal (Unity Feedback Testing):



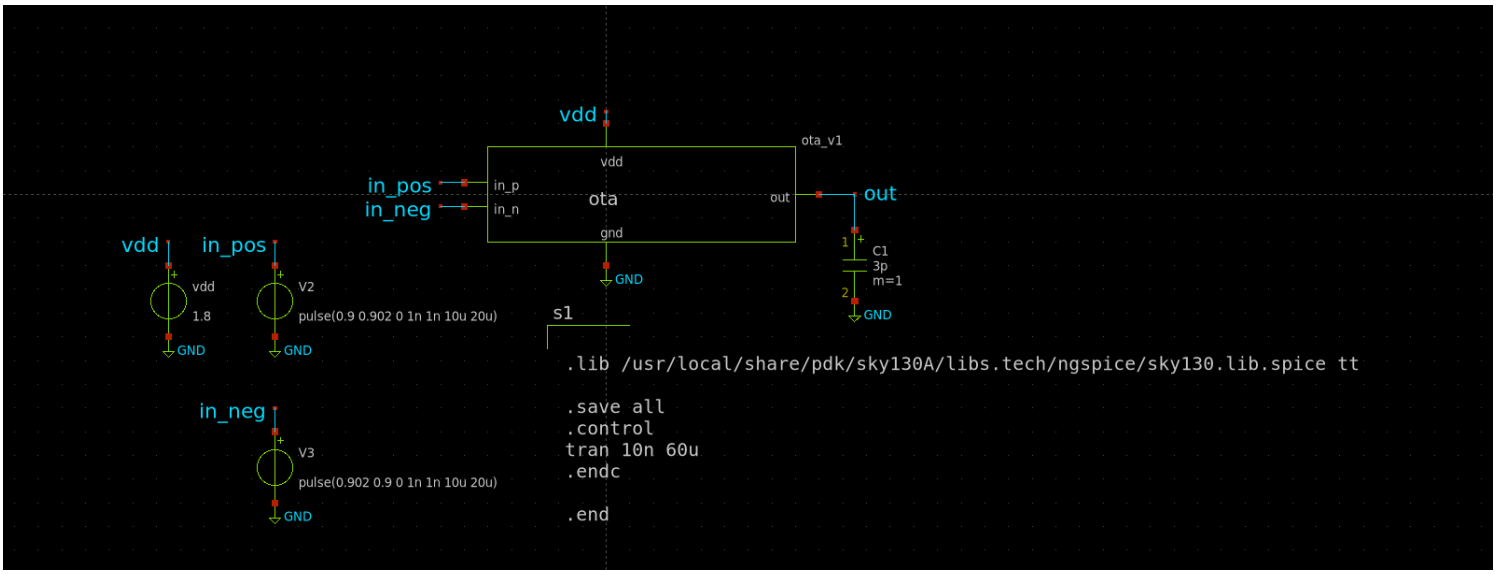
AC Output Signal (Unity Feedback Testing):



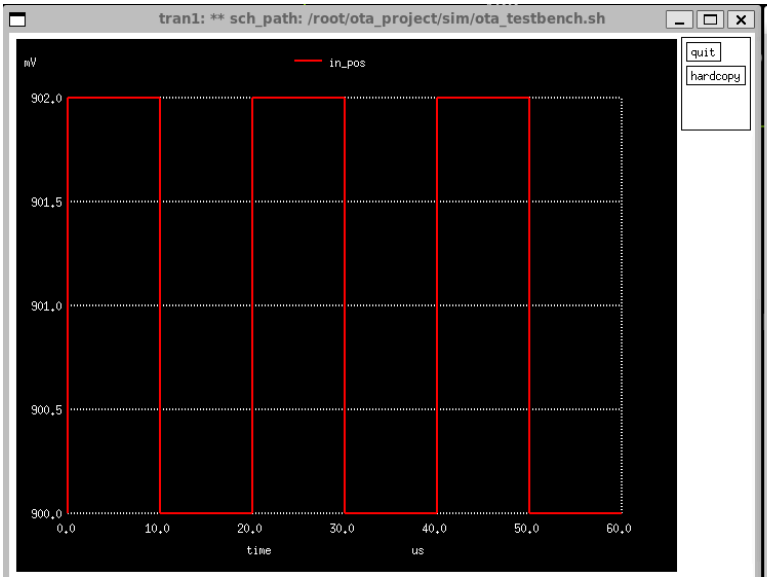
AC Gain[dB] at Output (Unity Feedback Testing):

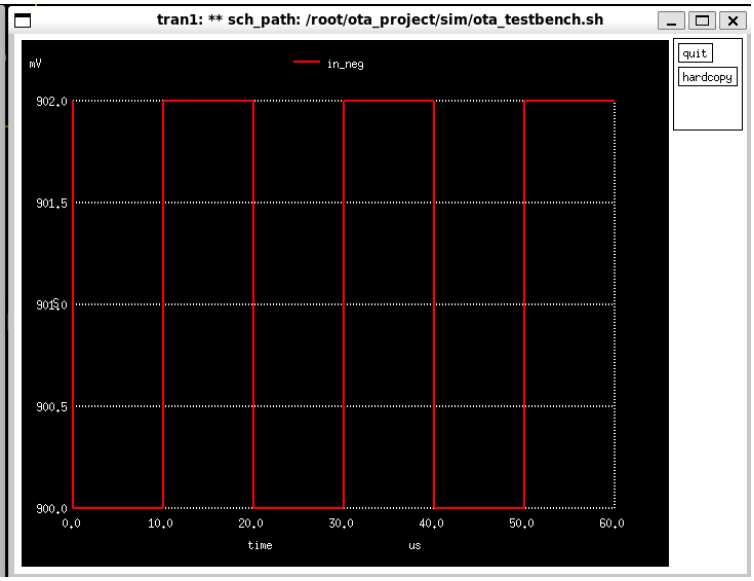


Testbench (DC Transient Analysis):

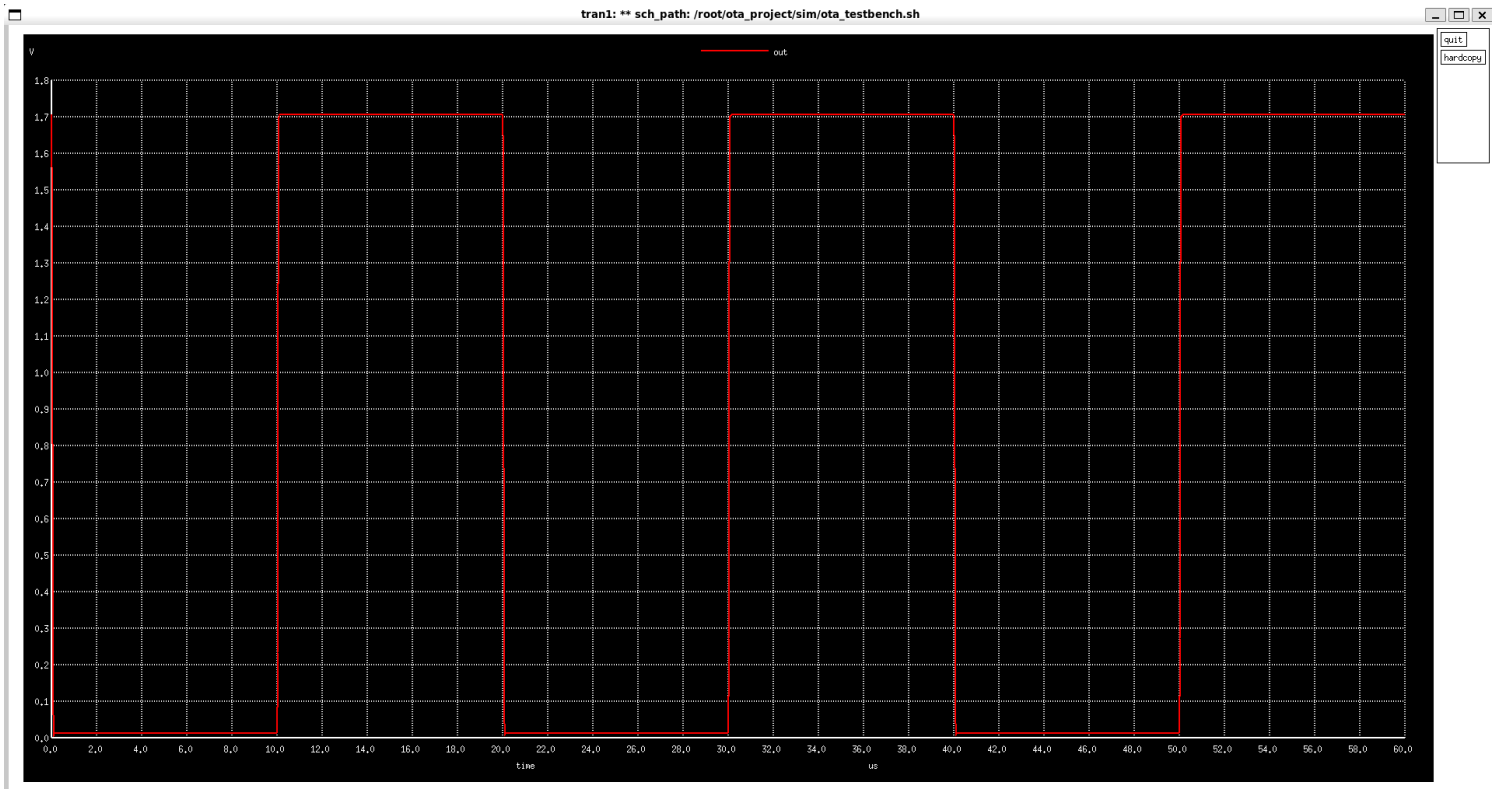


Input Signals (DC Transient Analysis):





Output Signal (DC Transient Analysis):



Coordinates for Slew Rate Calculation (DC Transient Analysis):

```
ota_testbench.spice" -a || sh
in_pos                                0.9
x1.net2                          0.185774
vdd                                  1.8
x1.v_bias                        0.666296
x1.out1                          0.482433
in_neg                              0.902
out                               1.70542
v3#branch                               0
v2#branch                               0
vdd#branch                   -0.000278041

 Reference value :  0.00000e+00

No. of Data Rows : 6082
Doing analysis at TEMP = 27.000000 and TNOM = 27.000000

Warning: v3: no DC value, transient time 0 value used
Warning: v2: no DC value, transient time 0 value used
ngspice 1 -> plot out
ngspice 2 ->
x0 = 1.99655e-05, y0 = 1.69362

x0 = 2.0069e-05, y0 = 0.729787
```

Slew Rate = |(0.729787V - 1.69362V) / (2.0069e-05s - 1.99655e-05s)|
Slew Rate = 9.3124V/us