LTspice 24.1.0 for Windows

Circuit: C:\Users\asus\Downloads\230108080_Shubh_OTA.net

Start Time: Tue Apr 22 21:59:52 2025

Ignoring BSIM parameter XL

Ignoring BSIM parameter XW

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Ignoring BSIM parameter XW

solver = Normal

Maximum thread count: 4

tnom = 27

temp = 27

method = trap

Warning: Pd = 0 is less than W.

Warning: Ps = 0 is less than W.

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Direct Newton iteration failed to find .op point. (Use ".option noopiter" to skip.)

Starting Gmin stepping

Gmin = 10

Gmin = 1.07374

Gmin = 0.115292

Gmin = 0.0123794

Gmin = 0.00132923

Gmin = 0.000142725

Gmin = 1.5325e-05

Gmin = 1.6455e-06

Gmin = 1.76685e-07

Gmin = 1.89714e-08

Gmin = 2.03704e-09

Gmin = 2.18725e-10

Gmin = 2.34854e-11

Gmin = 2.52173e-12

Gmin = 2.70769e-13

Gmin = 0

Gmin stepping succeeded in finding the operating point.

Semiconductor Device Operating Points:

--- BSIM3 MOSFETS ---

Name:	M1	M2	M0	M6	M7
Model:	cmosn	cmosn	cmosn	cmosn	cmosn
Id:	2.13e-05	2.13e-05	4.26e-05	2.45e-05	4.25e-06
Vgs:	4.78e-01	4.78e-01	5.02e-01	5.02e-01	5.02e-01
Vds:	4.90e-01	4.85e-01	4.22e-01	9.00e-01	5.02e-01
Vbs:	0.00e+00	0.00e+00	0.00e+00	0.00e+00	0.00e+00
Vth:	4.12e-01	4.12e-01	4.13e-01	4.10e-01	4.12e-01
Vdsat:	7.29e-02	7.29e-02	8.54e-02	8.67e-02	8.57e-02
Gm:	4.03e-04	4.03e-04	7.27e-04	4.12e-04	7.21e-05
Gds:	2.90e-06	2.91e-06	5.75e-06	2.62e-06	5.31e-07
Gmb	1.16e-04	1.16e-04	2.08e-04	1.18e-04	2.07e-05
Cbd:	0.00e+00	0.00e+00	0.00e+00	0.00e+00	0.00e+00

Cbs: 0.00e+00   0.00e+00   0.00e+00   0.00e+00   0.00e+00

Cgsov: 2.22e-14   2.22e-14   2.88e-14   1.56e-14   2.80e-15

Cgdov: 2.22e-14   2.22e-14   2.88e-14   1.56e-14   2.80e-15

Cgbov: 8.66e-19   8.66e-19   8.66e-19   8.66e-19   8.66e-19

dQgdVgb: 1.93e-13   1.93e-13   2.60e-13   1.41e-13   2.53e-14

dQgdVdb: -2.18e-14 -2.18e-14 -2.82e-14 -1.53e-14 -2.74e-15

dQgdVsb: -1.55e-13 -1.55e-13 -2.14e-13 -1.17e-13 -2.08e-14

dQddVgb: -7.88e-14 -7.88e-14 -1.08e-13 -5.85e-14 -1.05e-14

dQddVdb: 2.20e-14   2.20e-14   2.85e-14   1.54e-14   2.77e-15

dQddVsb: 7.49e-14   7.49e-14   1.04e-13   5.68e-14   1.01e-14

dQbdVgb: -3.54e-14 -3.54e-14 -4.44e-14 -2.42e-14 -4.33e-15

dQbdVdb: 3.04e-17   2.93e-17 -4.22e-18   4.18e-17   3.20e-18

dQbdVsb: -1.69e-14 -1.69e-14 -2.34e-14 -1.27e-14 -2.25e-15

Name: M3   M4   M5

Model: cmosp   cmosp   cmosp

Id: 2.13e-05   2.13e-05   2.45e-05

Vgs: 0.00e+00   5.36e-03   7.10e-03

Vds: 8.88e-01   8.93e-01   9.00e-01

Vbs: 8.88e-01   8.93e-01   9.00e-01

Vth: -4.20e-01 -4.20e-01 -4.20e-01

Vdsat: -3.53e-01 -3.53e-01 -3.57e-01

Gm: 8.28e-05   8.28e-05   9.40e-05

Gds: 1.05e-06   1.05e-06   1.19e-06

Gmb   2.66e-05   2.66e-05   3.02e-05

Cbd: 0.00e+00   0.00e+00   0.00e+00

Cbs: 0.00e+00   0.00e+00   0.00e+00

Cgsov: 2.03e-15   2.03e-15   2.29e-15

Cgdov: 2.03e-15   2.03e-15   2.29e-15

Cgbov: 8.41e-19   8.41e-19   8.41e-19

dQgdVgb: 2.29e-14   2.29e-14   2.58e-14

dQgdVdb: -2.00e-15 -2.00e-15 -2.25e-15

dQgdVsb: -2.05e-14 -2.05e-14 -2.30e-14

dQddVgb: -9.60e-15 -9.60e-15 -1.08e-14

dQddVdb: 2.02e-15   2.02e-15   2.27e-15

dQddVsb: 9.96e-15   9.96e-15   1.12e-14

dQbdVgb: -3.70e-15 -3.70e-15 -4.15e-15

dQbdVdb: -4.31e-18 -4.11e-18 -4.55e-18

dQbdVsb: -1.50e-15 -1.50e-15 -1.69e-15

Total elapsed time: 0.292 seconds.

Files loaded:

C:\Users\asus\Downloads\230108080_Shubh_OTA.net

C:\Users\asus\AppData\Local\LTspice\lib\cmp\standard.mos

C:\Users\asus\OneDrive\Documents\LTspice\tsmc018.lib