LTspice 24.1.1 for Windows

Circuit: C:\Users\dell\AppData\Local\Microsoft\Windows\INetCache\IE\31R67ITA\DCDesignnewwithR[1].net

Start Time: Thu Apr 24 11:19:26 2025

Ignoring BSIM parameter XL

Ignoring BSIM parameter XW

Ignoring BSIM parameter XL

Ignoring BSIM parameter XW

solver = Normal

Maximum thread count: 16

tnom = 27

temp = 27

method = trap

WARNING: Node nc\_01 is floating.

WARNING: Node n010 is floating.

WARNING: Node n011 is floating.

WARNING: Node nc\_02 is floating.

WARNING: Node nc\_03 is floating.

WARNING: Node n003 is floating.

WARNING: Node n004 is floating.

WARNING: Node n006 is floating.

Warning: Pd = 0 is less than W.

Warning: Ps = 0 is less than W.

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Early termination of direct N-R iteration.

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: M0 M1 M2 M7 M6

Model: cmosn cmosn cmosn cmosn cmosn

Id: 9.38e-05 4.69e-05 4.69e-05 -1.00e-05 9.32e-05

Vgs: 5.84e-01 4.69e-01 4.69e-01 0.00e+00 5.84e-01

Vds: 4.31e-01 7.37e-01 7.37e-01 -5.84e-01 4.07e-01

Vbs: 7.92e-02 6.60e-02 6.60e-02 -4.93e-01 7.70e-02

Vth: 3.89e-01 3.91e-01 3.91e-01 3.83e-01 3.89e-01

Vdsat: 1.48e-01 7.77e-02 7.77e-02 1.50e-01 1.47e-01

Gm: 9.53e-04 8.44e-04 8.44e-04 9.93e-05 9.50e-04

Gds: 1.01e-05 5.50e-06 5.50e-06 8.29e-07 1.08e-05

Gmb 2.40e-04 2.23e-04 2.23e-04 2.47e-05 2.40e-04

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: 1.61e-14 3.98e-14 3.98e-14 1.61e-15 1.61e-14

Cgdov: 1.61e-14 3.98e-14 3.98e-14 1.61e-15 1.61e-14

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

dQgdVgb: 1.51e-13 3.54e-13 3.54e-13 1.52e-14 1.52e-13

dQgdVdb: -1.58e-14 -3.89e-14 -3.89e-14 -1.57e-15 -1.59e-14

dQgdVsb: -1.30e-13 -2.93e-13 -2.93e-13 -1.31e-14 -1.31e-13

dQddVgb: -6.36e-14 -1.45e-13 -1.45e-13 -6.35e-15 -6.37e-14

dQddVdb: 1.60e-14 3.93e-14 3.93e-14 1.59e-15 1.61e-14

dQddVsb: 6.13e-14 1.37e-13 1.37e-13 6.12e-15 6.15e-14

dQbdVgb: -2.44e-14 -6.36e-14 -6.36e-14 -2.46e-15 -2.44e-14

dQbdVdb: -9.03e-17 1.02e-16 1.02e-16 1.86e-19 -1.20e-16

dQbdVsb: -8.27e-15 -2.02e-14 -2.02e-14 -7.38e-16 -8.42e-15

Name: M3 M4 M5

Model: cmosp cmosp cmosp

Id: -4.69e-05 -4.69e-05 -9.32e-05

Vgs: -6.32e-01 -6.32e-01 -6.32e-01

Vds: -6.32e-01 -6.32e-01 -1.39e+00

Vbs: -1.38e-01 -1.38e-01 -1.46e-01

Vth: -3.81e-01 -3.81e-01 -3.76e-01

Vdsat: -1.95e-01 -1.95e-01 -1.98e-01

Gm: 3.56e-04 3.56e-04 6.92e-04

Gds: 3.45e-06 3.45e-06 5.00e-06

Gmb 9.72e-05 9.72e-05 1.87e-04

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

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

Cgsov: 1.43e-14 1.43e-14 2.67e-14

Cgdov: 1.43e-14 1.43e-14 2.67e-14

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

dQgdVgb: 1.62e-13 1.62e-13 3.02e-13

dQgdVdb: -1.41e-14 -1.41e-14 -2.62e-14

dQgdVsb: -1.47e-13 -1.47e-13 -2.74e-13

dQddVgb: -6.74e-14 -6.74e-14 -1.26e-13

dQddVdb: 1.42e-14 1.42e-14 2.64e-14

dQddVsb: 6.82e-14 6.82e-14 1.27e-13

dQbdVgb: -2.68e-14 -2.68e-14 -5.02e-14

dQbdVdb: -3.45e-17 -3.45e-17 5.01e-17

dQbdVsb: -3.80e-15 -3.80e-15 -6.31e-15

Total elapsed time: 0.440 seconds.

Files loaded:

C:\Users\dell\AppData\Local\Microsoft\Windows\INetCache\IE\31R67ITA\DCDesignnewwithR[1].net

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

C:\Users\dell\AppData\Local\LTspice\lib\sub\tsmc018.lib