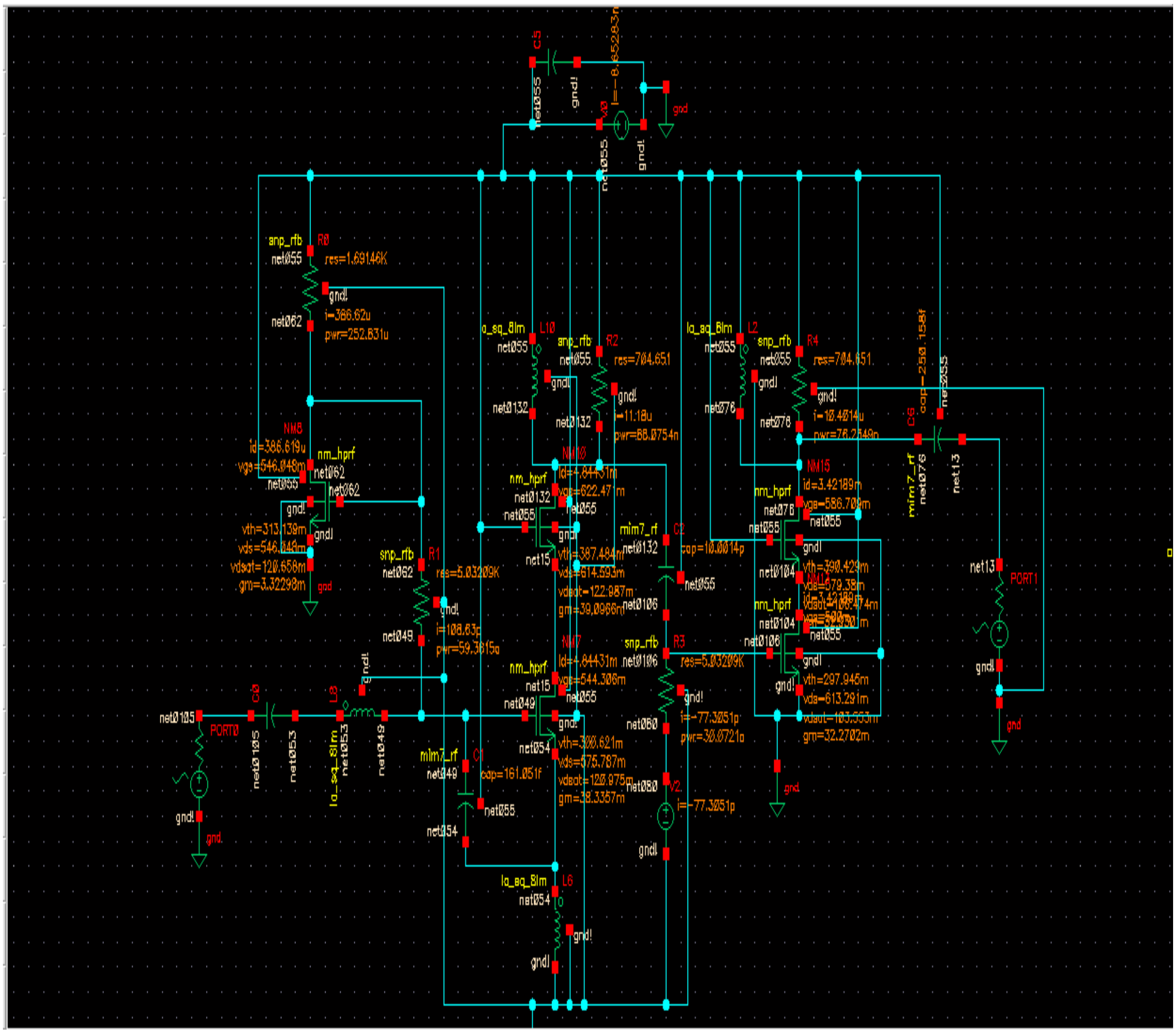
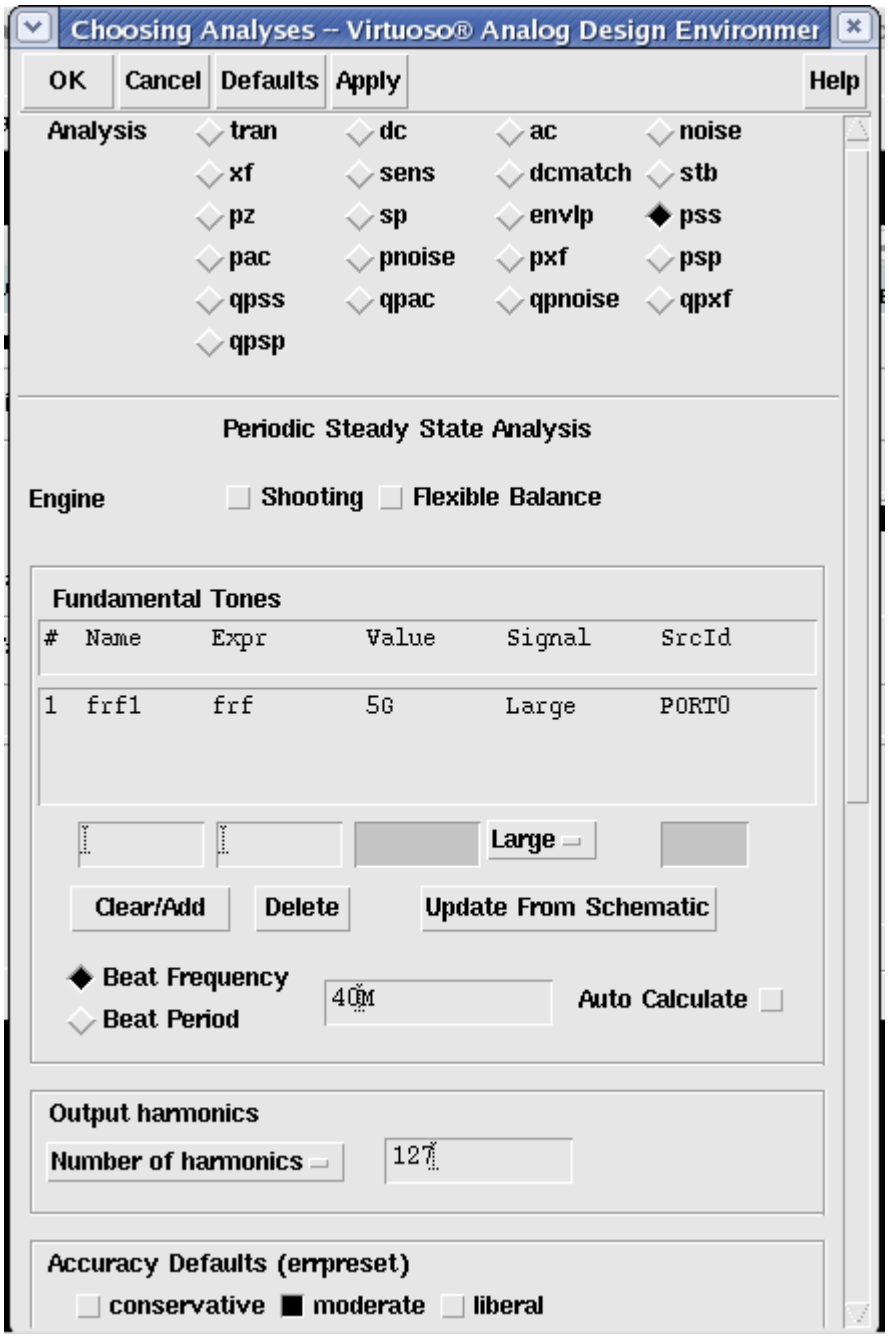
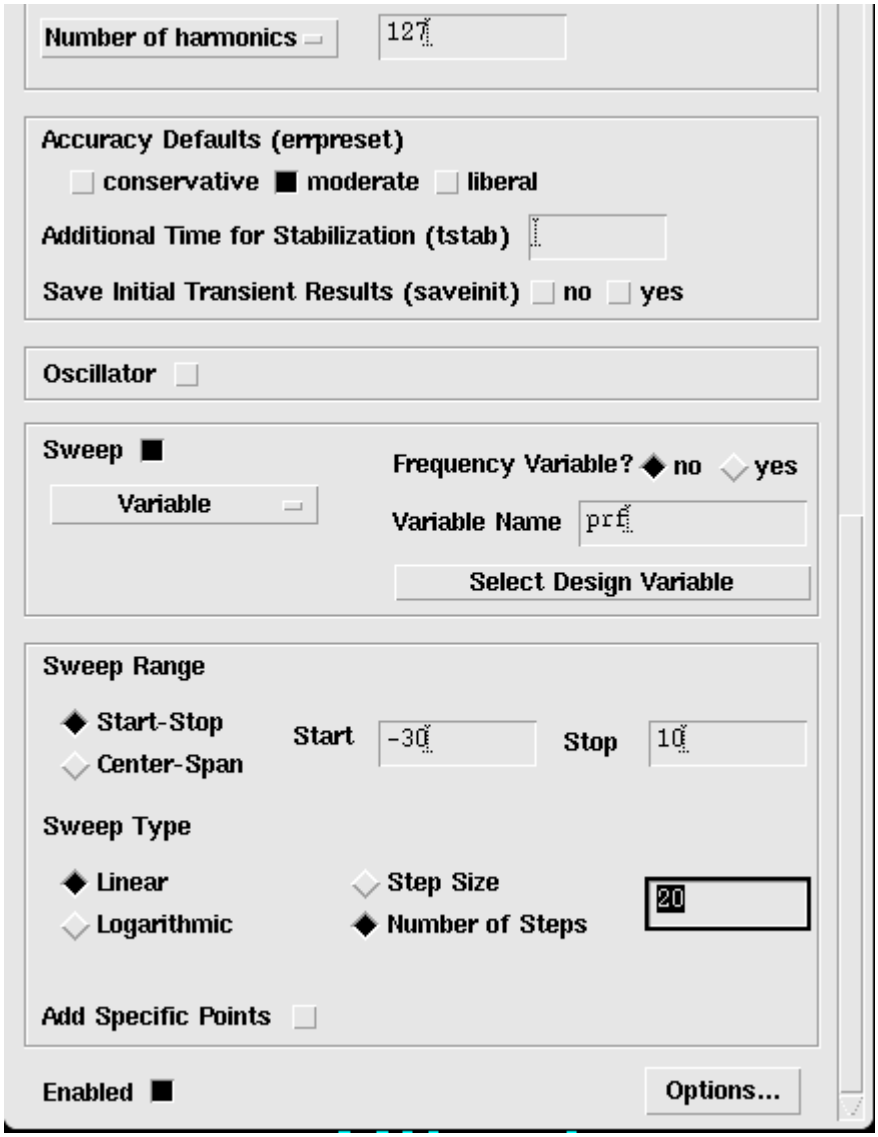
Schematic

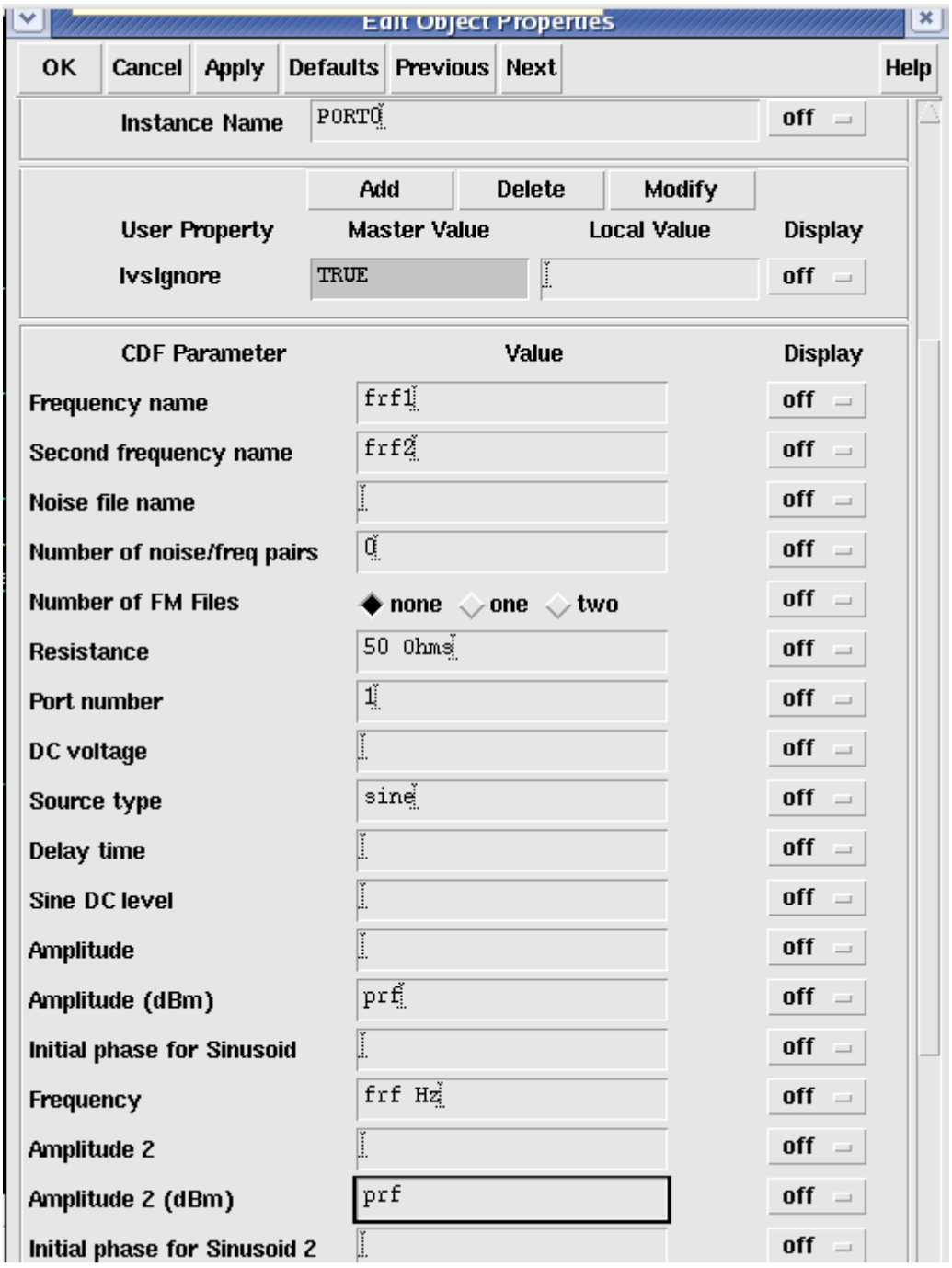


Setting for PSS Analyses




Number of harmonics
127
Accuracy Defaults (errpreset)
conservative
moderate
liberal
Additional Time for Stabilization (tstab)
Save Initial Transient Results (saveinit)
no
yes
Oscillator
Sweep
Variable
Frequency Variable?
no
yes
Variable Name
prf
Select Design Variable
Sweep Range
Start-Stop
Center-Span
Start
-30
Stop
10
Sweep Type
Linear
Logarithmic
Step Size
Number of Steps
20
Add Specific Points
Enabled
Options...

Setting for RF voltage source



Simulation log

```
File                                                                 Help

Command line:
    /cadence/MMSIM60USR2/tools.lnx86/spectre/bin/32bit/spectre -env  \
        artist5.1.0 +escchars +log ../psf/spectre.out +inter=mpsc  \
        +mpssession=spectre3_18291_22 -format sst2 -raw ../psf  \
        +lqtimeout 900 -maxw 5 -maxn 5 input.scs
spectre pid = 4746

Loading /cadence/MMSIM60USR2/tools.lnx86/cmi/lib/4.0/libinfineon_sh.so ...
Loading /cadence/MMSIM60USR2/tools.lnx86/cmi/lib/4.0/libnortel_sh.so ...
Loading /cadence/MMSIM60USR2/tools.lnx86/cmi/lib/4.0/libphilips_sh.so ...
Loading /cadence/MMSIM60USR2/tools.lnx86/cmi/lib/4.0/libsparam_sh.so ...
Loading /cadence/MMSIM60USR2/tools.lnx86/cmi/lib/4.0/libstmodels_sh.so ...
spectre (ver. 6.0.2.119 -- 10 Nov 2005).
Includes RSA BSAFE(R) Cryptographic or Security Protocol Software from RSA Security, Inc.

Simulating `input.scs' on CEDECUSMEE at 11:01:49 AM, Sat May 3, 2014.
Using new Spectre Parser.
Auto-loading AHDL component.
Finished loading AHDL component in 0 s (elapsed).
Installed AHDL simulation interface.
Opening directory input.ahdlSimDB/ (770)
Opening directory input.ahdlSimDB/input.ahdlcmi/ (770)
Installed compiled interface for bsource_1.
Installed compiled interface for bsource_2.
Installed compiled interface for bsource_3.
Installed compiled interface for bsource_4.
Installed compiled interface for bsource_5.
Installed compiled interface for bsource_6.
Installed compiled interface for bsource_7.
Installed compiled interface for bsource_8.
Installed compiled interface for bsource_9.

Circuit inventory:
              nodes 112
          equations 166
     ahdl simulator 1
              bsim4 5
          bsource_2 57
          capacitor 153
              diode 5
           inductor 22
               port 2
           resistor 37
            vsource 2

Entering remote command mode using MPSC service (spectre, ipi, v0.0, spectre3 18291 22, ).
********************************************
Sweep Analysis `sweeppss': prf = (-30 -> 10)
********************************************

+++++++++++++++++++++++++
sweeppss: prf = -30 (0 %)
+++++++++++++++++++++++++

*****************************************************************
Periodic Steady-State Analysis `sweeppss-000_pss': fund = 40 MHz
*****************************************************************

=========================================
`sweeppss-000_pss': time = (0 s -> 25 ns)
=========================================
Important parameter values in tstab integration:
    start = 0 s
    outputstart = 0 s
    stop = 25 ns
    period = 25 ns
    step = 25 ps
    maxstep = 1 ns
    ic = all
    skipdc = no
    reltol = 1e-03
    abstol(I) = 1 pA
    abstol(V) = 1 uV
    temp = 27 C
    tnom = 27 C
    tempeffects = all
    method = traponly
    lteratio = 3.5
    relref = sigglobal
    cmin = 0 F
    gmin = 1 pS
    maxrsd = 0 Ohm
    mos_method = s
    mos_vres = 50 mV


Warning from spectre at time = 485.867 ps during periodic steady state analysis `sweeppss-000_pss', during Sweep analysis `sweeppss'.
    NM10.main: Vgs has exceeded the oxide breakdown voltage of `vbox' = 2.28 V.
Warning from spectre at time = 486.192 ps during periodic steady state analysis `sweeppss-000_pss', during Sweep analysis `sweeppss'.
    NM7.main: Vgs has exceeded the oxide breakdown voltage of `vbox' = 2.28 V.
Warning from spectre at time = 486.357 ps during periodic steady state analysis `sweeppss-000_pss', during Sweep analysis `sweeppss'.
```

```
Warning from spectre at time = 485.867 ps during periodic steady state analysis `sweeppss-000_pss', during Sweep analysis `sweeppss'.
    NM10.main: Vgs has exceeded the oxide breakdown voltage of `vbox' = 2.28 V.
Warning from spectre at time = 486.192 ps during periodic steady state analysis `sweeppss-000_pss', during Sweep analysis `sweeppss'.
    NM7.main: Vgs has exceeded the oxide breakdown voltage of `vbox' = 2.28 V.
Warning from spectre at time = 486.357 ps during periodic steady state analysis `sweeppss-000_pss', during Sweep analysis `sweeppss'.
    Minimum time step used.  Solution might be in error.
Warning from spectre at time = 486.358 ps during periodic steady state analysis `sweeppss-000_pss', during Sweep analysis `sweeppss'.
    Convergence difficulties resulted in error requirements being unsatisfied.
Warning from spectre at time = 486.451 ps during periodic steady state analysis `sweeppss-000_pss', during Sweep analysis `sweeppss'.
    NM7.main: Vgd has exceeded the oxide breakdown voltage of `vbox' = 2.28 V.
Notice from spectre at time = 486.487 ps during periodic steady state analysis `sweeppss-000_pss', during Sweep analysis `sweeppss'.
    NM7.main: Device leaves the gate-drain oxide breakdown region.
Warning from spectre at time = 486.496 ps during periodic steady state analysis `sweeppss-000_pss', during Sweep analysis `sweeppss'.
    NM7.main: Vgd has exceeded the oxide breakdown voltage of `vbox' = 2.28 V.
Notice from spectre at time = 486.51 ps during periodic steady state analysis `sweeppss-000_pss', during Sweep analysis `sweeppss'.
    NM7.main: Device leaves the gate-drain oxide breakdown region.
Warning from spectre at time = 486.522 ps during periodic steady state analysis `sweeppss-000_pss', during Sweep analysis `sweeppss'.
    NM7.main: Vgd has exceeded the oxide breakdown voltage of `vbox' = 2.28 V.
Notice from spectre at time = 486.531 ps during periodic steady state analysis `sweeppss-000_pss', during Sweep analysis `sweeppss'.
    NM7.main: Device leaves the gate-drain oxide breakdown region.
Warning from spectre at time = 486.532 ps during periodic steady state analysis `sweeppss-000_pss', during Sweep analysis `sweeppss'.
    NM7.main: Vgd has exceeded the oxide breakdown voltage of `vbox' = 2.28 V.
Notice from spectre at time = 486.534 ps during periodic steady state analysis `sweeppss-000_pss', during Sweep analysis `sweeppss'.
    NM7.main: Device leaves the gate-drain oxide breakdown region.
        Further occurrences of this warning will be suppressed.
Warning from spectre at time = 486.536 ps during periodic steady state analysis `sweeppss-000_pss', during Sweep analysis `sweeppss'.
    NM7.main: Vgd has exceeded the oxide breakdown voltage of `vbox' = 2.28 V.
        Further occurrences of this warning will be suppressed.
Notice from spectre at time = 486.538 ps during periodic steady state analysis `sweeppss-000_pss', during Sweep analysis `sweeppss'.
    NM7.main: Device leaves the gate-drain oxide breakdown region.
        Further occurrences of this notice will be suppressed.
Warning from spectre at time = 486.975 ps during periodic steady state analysis `sweeppss-000_pss', during Sweep analysis `sweeppss'.
    Convergence difficulties resulted in error requirements being unsatisfied.
Warning from spectre at time = 486.975 ps during periodic steady state analysis `sweeppss-000_pss', during Sweep analysis `sweeppss'.
    Convergence difficulties resulted in error requirements being unsatisfied.
Warning from spectre at time = 486.976 ps during periodic steady state analysis `sweeppss-000_pss', during Sweep analysis `sweeppss'.
    Convergence difficulties resulted in error requirements being unsatisfied.
        Further occurrences of this warning will be suppressed.
Warning from spectre at time = 486.977 ps during periodic steady state analysis `sweeppss-000_pss', during Sweep analysis `sweeppss'.
    Convergence difficulties resulted in error requirements being unsatisfied.
        Further occurrences of this warning will be suppressed.
Warning from spectre at time = 503.644 ps during periodic steady state analysis `sweeppss-000_pss', during Sweep analysis `sweeppss'.
    Sweep iteration for `prf' = -30 terminated prematurely because of following error(s):
Error found by spectre at time = 503.644 ps during periodic steady state analysis `sweeppss-000_pss', during Sweep analysis `sweeppss'.
    Matrix is singular (detected at `nm7.main:int_g').
```


```
Warning from spectre at time = 485.867 ps during periodic steady state analysis `sweeppss-000_pss', during Sweep analysis `sweeppss'.
    NM10.main: Vgs has exceeded the oxide breakdown voltage of `vbox' = 2.28 V.
Warning from spectre at time = 486.192 ps during periodic steady state analysis `sweeppss-000_pss', during Sweep analysis `sweeppss'.
    NM7.main: Vgs has exceeded the oxide breakdown voltage of `vbox' = 2.28 V.
Warning from spectre at time = 486.357 ps during periodic steady state analysis `sweeppss-000_pss', during Sweep analysis `sweeppss'.
    Minimum time step used.  Solution might be in error.
Warning from spectre at time = 486.358 ps during periodic steady state analysis `sweeppss-000_pss', during Sweep analysis `sweeppss'.
    Convergence difficulties resulted in error requirements being unsatisfied.
Warning from spectre at time = 486.451 ps during periodic steady state analysis `sweeppss-000_pss', during Sweep analysis `sweeppss'.
    NM7.main: Vgd has exceeded the oxide breakdown voltage of `vbox' = 2.28 V.
Notice from spectre at time = 486.487 ps during periodic steady state analysis `sweeppss-000_pss', during Sweep analysis `sweeppss'.
    NM7.main: Device leaves the gate-drain oxide breakdown region.
Warning from spectre at time = 486.496 ps during periodic steady state analysis `sweeppss-000_pss', during Sweep analysis `sweeppss'.
    NM7.main: Vgd has exceeded the oxide breakdown voltage of `vbox' = 2.28 V.
Notice from spectre at time = 486.51 ps during periodic steady state analysis `sweeppss-000_pss', during Sweep analysis `sweeppss'.
    NM7.main: Device leaves the gate-drain oxide breakdown region.
Warning from spectre at time = 486.522 ps during periodic steady state analysis `sweeppss-000_pss', during Sweep analysis `sweeppss'.
    NM7.main: Vgd has exceeded the oxide breakdown voltage of `vbox' = 2.28 V.
Notice from spectre at time = 486.531 ps during periodic steady state analysis `sweeppss-000_pss', during Sweep analysis `sweeppss'.
    NM7.main: Device leaves the gate-drain oxide breakdown region.
Warning from spectre at time = 486.532 ps during periodic steady state analysis `sweeppss-000_pss', during Sweep analysis `sweeppss'.
    NM7.main: Vgd has exceeded the oxide breakdown voltage of `vbox' = 2.28 V.
Notice from spectre at time = 486.534 ps during periodic steady state analysis `sweeppss-000_pss', during Sweep analysis `sweeppss'.
    NM7.main: Device leaves the gate-drain oxide breakdown region.
        Further occurrences of this warning will be suppressed.
Warning from spectre at time = 486.536 ps during periodic steady state analysis `sweeppss-000_pss', during Sweep analysis `sweeppss'.
    NM7.main: Vgd has exceeded the oxide breakdown voltage of `vbox' = 2.28 V.
        Further occurrences of this warning will be suppressed.
Notice from spectre at time = 486.538 ps during periodic steady state analysis `sweeppss-000_pss', during Sweep analysis `sweeppss'.
    NM7.main: Device leaves the gate-drain oxide breakdown region.
        Further occurrences of this notice will be suppressed.
Warning from spectre at time = 486.975 ps during periodic steady state analysis `sweeppss-000_pss', during Sweep analysis `sweeppss'.
    Convergence difficulties resulted in error requirements being unsatisfied.
Warning from spectre at time = 486.975 ps during periodic steady state analysis `sweeppss-000_pss', during Sweep analysis `sweeppss'.
    Convergence difficulties resulted in error requirements being unsatisfied.
Warning from spectre at time = 486.976 ps during periodic steady state analysis `sweeppss-000_pss', during Sweep analysis `sweeppss'.
    Convergence difficulties resulted in error requirements being unsatisfied.
        Further occurrences of this warning will be suppressed.
Warning from spectre at time = 486.977 ps during periodic steady state analysis `sweeppss-000_pss', during Sweep analysis `sweeppss'.
    Convergence difficulties resulted in error requirements being unsatisfied.
        Further occurrences of this warning will be suppressed.
Warning from spectre at time = 503.644 ps during periodic steady state analysis `sweeppss-000_pss', during Sweep analysis `sweeppss'.
    Sweep iteration for `prf' = -30 terminated prematurely because of following error(s):
Error found by spectre at time = 503.644 ps during periodic steady state analysis `sweeppss-000_pss', during Sweep analysis `sweeppss'.
    Matrix is singular (detected at `nm7.main:int_g').
```

```
Solution at last successful step (at 486.977 ps), and last Newton iteration (at 503.644 ps):
               V(net13): 214.123 mV       29.0122 kV
               V(net15): 13.9267 V        -17.6607 kV
              V(net049): 19.3767 V        11.6157 kV
              V(net053): 5.6826 V         11.0859 kV
              V(net054): 22.8473 V        -6.56623 kV
              V(net055): 1.2 V            1.2 V
              V(net062): 545.839 mV       245.883 mV
              V(net076): 1.62839 V        1.55982 V
              V(net080): 500 mV           500 mV
             V(net0104): 772.28 mV        1.74351 V
             V(net0105): 5.13655 V        11.0864 kV
             V(net0106): 1.11172 V        11.0454 kV
             V(net0132): 4.25333 V        -6.97914 kV
          V(R0_1__sil_0): 981.949 mV      -19.4731 V
          V(R0_2__sil_0): 763.894 mV      20.894 V
          V(R1_1__sil_0): 545.388 mV      -12.466 V
          V(R1_2__sil_0): 545.032 mV      -13.7582 V
          V(R1_3__sil_0): 544.919 mV      10.408 V
          V(R1_4__sil_0): 545.34 mV       -7.40798 V
          V(R1_5__sil_0): 547.348 mV      1.921 V
          V(R1_6__sil_0): 559.46 mV       12.2607 V
          V(R1_7__sil_0): 664.765 mV      11.4244 V
          V(R1_8__sil_0): 1.54839 V       -11.0083 kV
          V(R2_1__sil_0): 1.21052 V       20.1238 V
          V(R2_2__sil_0): 1.22194 V       -2.29982 V
          V(R2_3__sil_0): 1.23521 V       -2.25726 V
          V(R2_4__sil_0): 1.2514 V        -2.22491 V
          V(R2_5__sil_0): 1.27175 V       -2.20266 V
          V(R2_6__sil_0): 1.29772 V       -4.99149 V
          V(R2_7__sil_0): 1.33112 V       8.09834 V
          V(R2_8__sil_0): 1.37418 V       -41.5568 V
          V(R2_9__sil_0): 1.42968 V       -39.5131 V
         V(R2_10__sil_0): 1.50112 V       45.8603 V
         V(R2_11__sil_0): 1.59298 V       37.1262 V
         V(R2_12__sil_0): 1.71106 V       4.04696 V
         V(R2_13__sil_0): 1.86315 V       -1.76954 V
         V(R2_14__sil_0): 2.06006 V       1.92022 V
         V(R2_15__sil_0): 2.31797 V       3.19744 V
         V(R2_16__sil_0): 2.66357 V       32.1555 V
         V(R2_17__sil_0): 3.15071 V       -13.3563 kV
          V(R3_1__sil_0): 513.707 mV      -11.0015 kV
          V(R3_2__sil_0): 495.494 mV      -11.0006 kV
          V(R3_3__sil_0): 509.249 mV      8.29348 V
          V(R3_4__sil_0): 515.598 mV      -9.74647 V
          V(R3_5__sil_0): 515.658 mV      17.328 V
          V(R3_2__sil_0): 495.494 mV      -11.0006 kV
          V(R3_3__sil_0): 509.249 mV      8.29348 V
          V(R3_4__sil_0): 515.598 mV      -9.74647 V
          V(R3_5__sil_0): 515.658 mV      17.328 V
          V(R3_6__sil_0): 512.591 mV      -15.2372 V
          V(R3_7__sil_0): 508.439 mV      4.15405 V
          V(R3_8__sil_0): 504.162 mV      1.90051 V
          V(R4_1__sil_0): 1.22079 V       7.32353 V
          V(R4_2__sil_0): 1.24162 V       4.57356 V
          V(R4_3__sil_0): 1.26255 V       -21.2035 V
          V(R4_4__sil_0): 1.28363 V       296.187 mV
          V(R4_5__sil_0): 1.3049 V        5.83147 V
          V(R4_6__sil_0): 1.32642 V       3.7132 V
          V(R4_7__sil_0): 1.34823 V       -126.35 V
          V(R4_8__sil_0): 1.3704 V        -126.843 V
          V(R4_9__sil_0): 1.39299 V       -115.474 V
         V(R4_10__sil_0): 1.41607 V       -90.1292 V
         V(R4_11__sil_0): 1.43969 V       -37.6748 V
         V(R4_12__sil_0): 1.46395 V       51.4761 V
         V(R4_13__sil_0): 1.48893 V       171.433 V
         V(R4_14__sil_0): 1.51471 V       283.428 V
         V(R4_15__sil_0): 1.54142 V       1.96414 V
         V(R4_16__sil_0): 1.56917 V       3.17688 V
         V(R4_17__sil_0): 1.5981 V        -6.06316 kV
                 I(V0:p): -4.85854 A      476.406 MA
                 I(V2:p): 7.44472 uA      2.46247 mA
                 V(C1.b): 19.363 V        11.8527 kV
                 V(C1.c): 19.6091 V       11.8524 kV
                 V(C1.d): 22.6767 V       12.0082 kV
                 V(C1.e): 22.9358 V       12.0027 kV
                 V(C1.g): 4.32075 V       11.1407 kV
                 V(C2.b): 2.37212 V       11.093 kV
                 V(C2.c): 2.35954 V       11.0919 kV
                 V(C2.d): 1.65732 V       11.089 kV
                 V(C2.e): 1.65272 V       11.0887 kV
                 V(C2.g): 1.24697 V       11.0072 kV
                 V(C6.b): 1.62839 V       29.0583 kV
                 V(C6.c): 1.62619 V       29.0582 kV
                 V(C6.d): 216.312 mV      29.0124 kV
                 V(C6.e): 214.125 mV      29.0123 kV
                 V(C6.g): 1.20684 V       29.0334 kV
            I(c1.ls1:1): -472.201 mA      -313.468 MA
            I(c1.ls2:1): -497.132 mA      -314.576 MA
            I(c2.ls1:1): 152.596 mA       -3.53284 GA
            I(c2.ls2:1): 55.7584 mA       -2.38345 GA
            I(c6.ls1:1): 4.31292 mA       67.9653 MA
```

```
         V(R3_2__sil_0): 495.494 mV       -11.0006 kV
         V(R3_3__sil_0): 509.249 mV       8.29348 V
         V(R3_4__sil_0): 515.598 mV       -9.74647 V
         V(R3_5__sil_0): 515.658 mV       17.328 V
         V(R3_6__sil_0): 512.591 mV       -15.2372 V
         V(R3_7__sil_0): 508.439 mV       4.15405 V
         V(R3_8__sil_0): 504.162 mV       1.90051 V
         V(R4_1__sil_0): 1.22079 V        7.32353 V
         V(R4_2__sil_0): 1.24162 V        4.57356 V
         V(R4_3__sil_0): 1.26255 V        -21.2035 V
         V(R4_4__sil_0): 1.28363 V        296.187 mV
         V(R4_5__sil_0): 1.3049 V         5.83147 V
         V(R4_6__sil_0): 1.32642 V        3.7132 V
         V(R4_7__sil_0): 1.34823 V        -126.35 V
         V(R4_8__sil_0): 1.3704 V         -126.843 V
         V(R4_9__sil_0): 1.39299 V        -115.474 V
        V(R4_10__sil_0): 1.41607 V        -90.1292 V
        V(R4_11__sil_0): 1.43969 V        -37.6748 V
        V(R4_12__sil_0): 1.46395 V        51.4761 V
        V(R4_13__sil_0): 1.48893 V        171.433 V
        V(R4_14__sil_0): 1.51471 V        283.428 V
        V(R4_15__sil_0): 1.54142 V        1.96414 V
        V(R4_16__sil_0): 1.56917 V        3.17688 V
        V(R4_17__sil_0): 1.5981 V         -6.06316 kV
               I(V0:p): -4.85854 A        476.406 MA
               I(V2:p): 7.44472 uA        2.46247 mA
               V(C1.b): 19.363 V          11.8527 kV
               V(C1.c): 19.6091 V         11.8524 kV
               V(C1.d): 22.6767 V         12.0082 kV
               V(C1.e): 22.9358 V         12.0027 kV
               V(C1.g): 4.32075 V         11.1407 kV
               V(C2.b): 2.37212 V         11.093 kV
               V(C2.c): 2.35954 V         11.0919 kV
               V(C2.d): 1.65732 V         11.089 kV
               V(C2.e): 1.65272 V         11.0887 kV
               V(C2.g): 1.24697 V         11.0072 kV
               V(C6.b): 1.62839 V         29.0583 kV
               V(C6.c): 1.62619 V         29.0582 kV
               V(C6.d): 216.312 mV        29.0124 kV
               V(C6.e): 214.125 mV        29.0123 kV
               V(C6.g): 1.20684 V         29.0334 kV
           I(c1.ls1:1): -472.201 mA       -313.468 MA
           I(c1.ls2:1): -497.132 mA       -314.576 MA
           I(c2.ls1:1): 152.596 mA        -3.53284 GA
           I(c2.ls2:1): 55.7584 mA        -2.38345 GA
           I(c6.ls1:1): 4.31292 mA        67.9653 MA
```

I(c6.ls2:1):	4.28246 mA	67.5146 MA
V(L2.a1):	1.41671 V	29.0414 kV
V(L2.a2):	1.63777 V	29.0584 kV
V(L2.c1):	1.41471 V	29.0415 kV
V(L2.c2):	1.63612 V	29.0585 kV
V(L2.t1):	1.40683 V	29.0412 kV
V(L2.tsub1):	0 V	0 V
V(L2.tsub2):	219.64 mV	29.0104 kV
V(L2.tsub3):	115.567 mV	29.0035 kV
V(L6.a1):	502.203 V	39.1189 kV
V(L6.a2):	-450.204 mV	11.0084 kV
V(L6.c1):	501.734 V	39.0926 kV
V(L6.c2):	43.0249 mV	11.0024 kV
V(L6.t1):	501.773 V	39.0948 kV
V(L6.tsub1):	2.81257 V	12.0777 kV
V(L6.tsub2):	0 V	0 V
V(L6.tsub3):	548.838 V	-21.2436 kV
V(L8.a1):	1.1736 V	11.0359 kV
V(L8.a2):	19.3521 V	11.6143 kV
V(L8.c1):	1.16739 V	11.0356 kV
V(L8.c2):	19.3766 V	11.6156 kV
V(L8.t1):	1.16721 V	11.0356 kV
V(L8.tsub1):	2.23111 V	11.0413 kV
V(L8.tsub2):	10.4194 V	11.3316 kV
V(L8.tsub3):	307.186 mV	11.0169 kV
V(L10.a1):	1.19195 V	11.0063 kV
V(L10.a2):	4.25398 V	17.9796 kV
V(L10.c1):	1.19234 V	11.0063 kV
V(L10.c2):	4.25666 V	17.9796 kV
V(L10.t1):	1.18902 V	11.0063 kV
V(L10.tsub1):	0 V	0 V
V(L10.tsub2):	1.26416 V	13.9473 kV
V(L10.tsub3):	-4.27199 mV	11.0015 kV
I(l2.lp1:1):	3.12153 mA	-4.47412 MA
I(l2.lp2:1):	3.05956 mA	-5.20695 MA
I(l2.ls1:1):	8.40764 mA	-44.7814 MA
I(l2.ls2:1):	-8.07296 mA	52.1163 MA
I(l6.lp1:1):	-349.558 mA	495.396 MA
I(l6.lp2:1):	385.047 mA	495.396 MA
I(l6.ls1:1):	-1.80707 A	495.396 MA
I(l6.ls2:1):	-1.91028 A	-495.396 MA
I(l8.lp1:1):	69.822 uA	-273.793 MA
I(l8.lp2:1):	-54.8857 uA	-274.766 MA
I(l8.ls1:1):	3.48265 mA	-306.015 MA
I(l8.ls2:1):	13.1913 mA	315.753 MA
I(l10.lp1:1):	1.64243 mA	-276.815 MA

```
            I(l8.lp2:1): -54.8857 uA      -274.766 MA
            I(l8.ls1:1): 3.48265 mA       -306.015 MA
            I(l8.ls2:1): 13.1913 mA       315.753 MA
           I(l10.lp1:1): 1.64243 mA       -276.815 MA
           I(l10.lp2:1): 1.64919 mA       -278.088 MA
           I(l10.ls1:1): 3.78121 mA       -348.928 MA
           I(l10.ls2:1): -2.12471 mA      364.121 MA
      V(rm7.dsub:int_a): 1.22523 nV       1.22524 nV
     V(rm7.main:dbnode): 14.1878 V        -5.99017 kV
     V(rm7.main:gmnode): 18.6483 V        23.4553 kV
      V(rm7.main:int_b): 1.26367 kV       -19.3652 TV
      V(rm7.main:int_g): 18.1603 V        -86.7699 kV
     V(rm7.main:sbnode): 19.2286 V        9.49779 kV
      V(rm8.dsub:int_a): 16.6965 nV       16.6965 nV
     V(rm8.main:dbnode): 2.11872 uV       -29.6011 mV
     V(rm8.main:gmnode): 545.839 mV       232.556 mV
      V(rm8.main:int_b): 785.247 nV       -11.4776 mV
      V(rm8.main:int_g): 545.838 mV       845.853 mV
     V(rm8.main:sbnode): 616.468 nV       -10.7213 mV
     V(rm10.dsub:int_a): 1.22523 nV       1.22524 nV
    V(rm10.main:dbnode): 4.75582 V        -6.97579 kV
    V(rm10.main:gmnode): 4.56221 V        22.9793 kV
     V(rm10.main:int_b): 5.03774 V        14.229 kV
     V(rm10.main:int_g): 5.10224 V        -8.44358 kV
    V(rm10.main:sbnode): 10.3615 V        -17.6604 kV
     V(rm13.dsub:int_a): 1.08912 nV       1.08912 nV
    V(rm13.main:dbnode): 80.3886 mV       745.703 mV
    V(rm13.main:gmnode): 829.212 mV       11.0264 kV
     V(rm13.main:int_b): 59.8453 mV       -727.619 kV
     V(rm13.main:int_g): 726.027 mV       6.97879 V
    V(rm13.main:sbnode): 33.0094 mV       60.043 mV
     V(rm15.dsub:int_a): 1.08912 nV       1.08912 nV
    V(rm15.main:dbnode): 131.964 mV       1.90982 V
    V(rm15.main:gmnode): 1.22536 V        -17.0137 kV
     V(rm15.main:int_b): 128.753 mV       29.0211 kV
     V(rm15.main:int_g): 1.23736 V        1.08678 V
    V(rm15.main:sbnode): 153.033 mV       1.90982 V

Analysis `sweeppss-000_pss' terminated prematurely due to error.

Warning from spectre during periodic steady state analysis `sweeppss-000_pss', during Sweep analysis `sweeppss'.
    4 warnings suppressed.


++++++++++++++++++++++++++
sweeppss: prf = -28 (5 %)
++++++++++++++++++++++++++
```