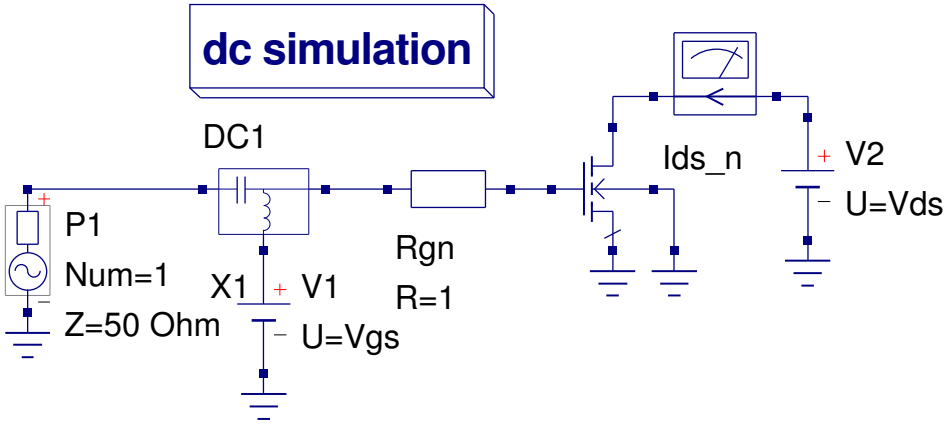

EKV26nMOS1
LEVEL=1
L=10e-6
W=10e-6
Cox=3.45e-3
Vto=0.6
Gamma=0.71
Phi=0.97
Kp=50e-6
Theta=50e-3
Cgso=1.5e-10
Cgdo=1.5e-10
Cgbo=4.0e-10
Cj0=300e-15

Parameter sweep

SW1
Sim=SW2
Type=lin
Param=Vds
Start=0
Stop=3
Points=31

Parameter sweep

SW2
Sim=SP1
Type=lin
Param=Vgs
Start=-2
Stop=2
Points=201

S parameter simulation

SP1
Type=const
Values=[1 MHz]

Equation

Eqn1
y=stoy(S)
L=10e-6
W=10e-6
Cox=3.45e-3
Cg=imag(y[1,1])/Omega
Cgpl=PlotVs(Cg/(Cox*W*L), Vds, Vgs)
Rg=PlotVs((real(y[1,1])/(Omega*Omega*Cg*Cg)), Vds, Vgs)
Cg_2D=PlotVs(Cg, Vgs)
Omega=2*pi*frequency