

## NGSPICE

```
.temp 27
.control
save all
save @n.xml.nsg13_lv_nmos[gm]
save @n.xml.nsg13_lv_nmos[gds]
save @n.xml.nsg13_lv_nmos[vth]
save @n.xml.nsg13_lv_nmos[cgg]
save @n.xml.nsg13_lv_nmos[cgd]
save @n.xml.nsg13_lv_nmos[vdss]
save @n.xml.nsg13_lv_nmos[fug]
save @n.xml.nsg13_lv_nmos[rg]
save @n.xml.nsg13_lv_nmos[sid]
op
write dc_lv_nmos.raw
set appendwrite
dc Vds 0 1.5 0.01 Vgs 0 1.5 0.1
write dc_lv_nmos.raw
quit
.endc
```

gm=?  
gds=?  
vth=?  
vdss(vds\_sat)=?  
cgs=?  
fug(f\_t)=?  
cdg=?  
rg=?  
sid=?



i(vd)



- ➡ simulate
- ➡ load waves
- ➡ annotate OP

## MODEL

```
.lib cornerMOSlv.lib mos_tt
```