

#### NGSPICE

```
.temp 27
.control
save all
set filetype=ascii

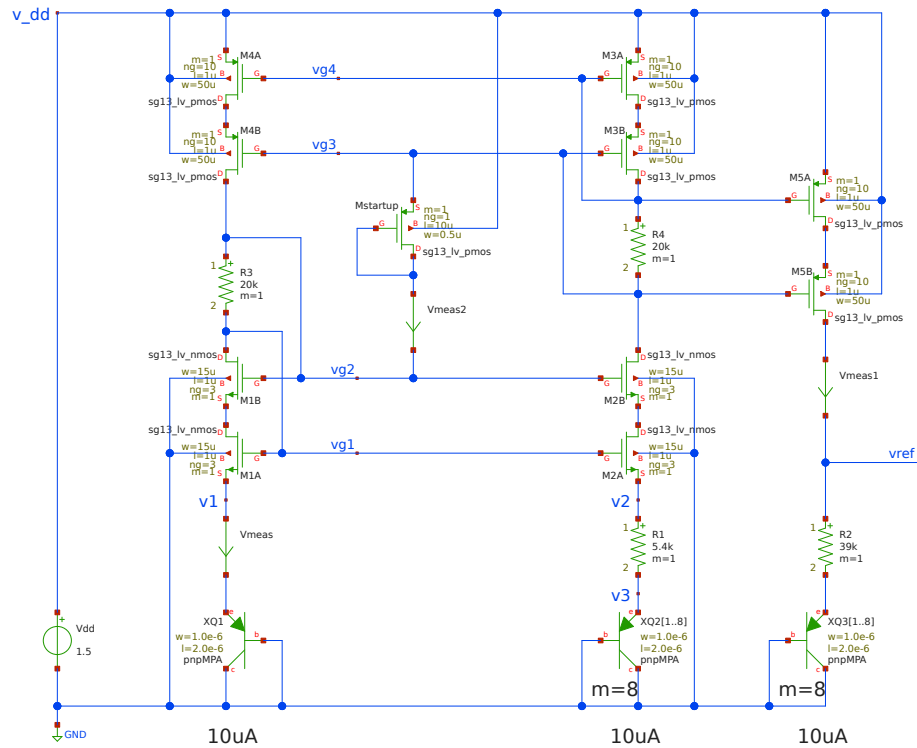
op
write bandgap_simple.raw

dc temp -30 125 1
set appendwrite
write bandgap_simple.raw
plot vref

wrdata bandgap_simple.txt vref
.endc
```

#### MODEL

```
.lib cornerMOSlv.lib mos_tt
.lib cornerHBT.lib hbt_typ
```



→ simulate

→ annotate OP