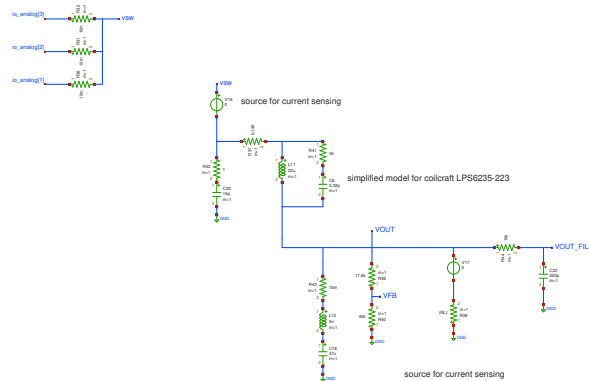
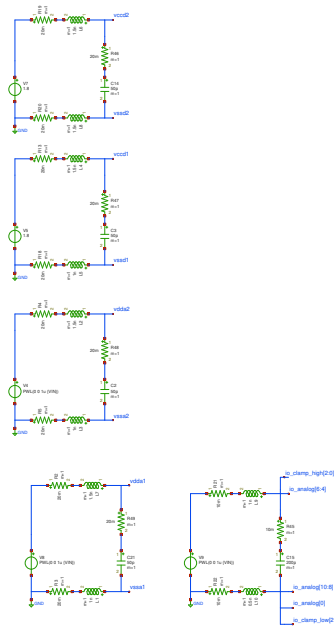
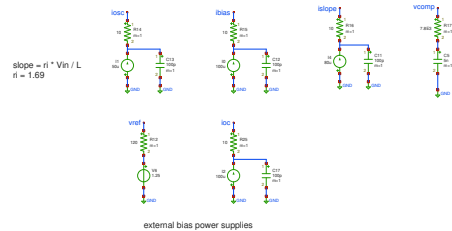
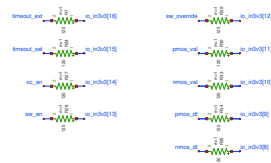
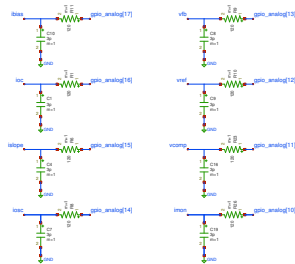
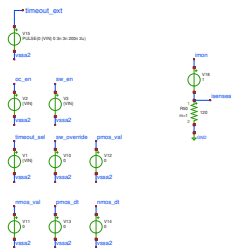


## I/O Pad Emulation



```

.param VIN = 3.3
.param RL = 20
.option temp=70

param mc_mn_switch=0
.lib iuser/share/pdk/sky130/lib/tech/ingspice/sky130.lib spice t
.include iuser/share/pdk/sky130/lib/refs/sky130_id_sc_hvl/spice/sky130_id_sc_hvl.spice

.control
save all
tran 40n 40u
write analog_wrapper_1b.raw
.endc

```