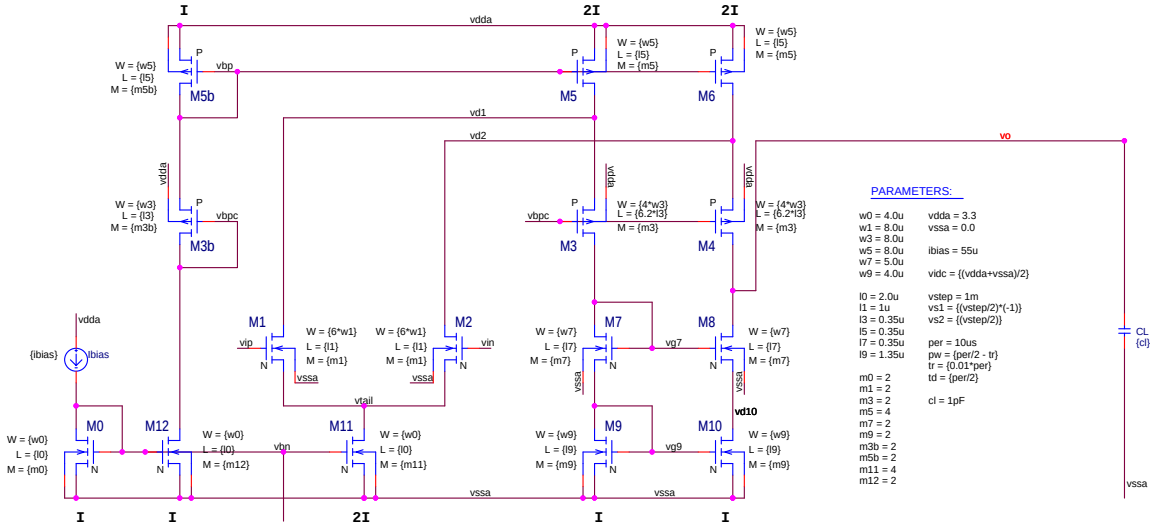
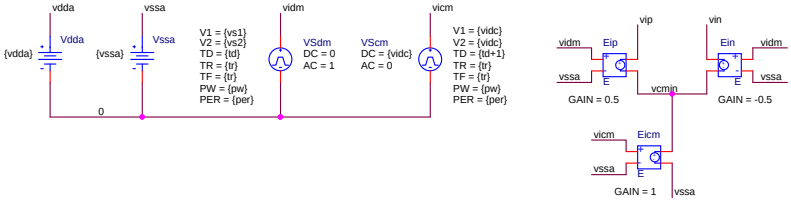

I
2I
2I
vdda
W = {w5}
L = {l5}
M = {m5b}
P
vbp
M5b
W = {w5}
L = {l5}
M = {m5}
M5
M6
vd1
vd2
vo
vdda
W = {w3}
L = {l3}
M = {m3b}
vbpc
M3b
W = {4*w3}
L = {6.2*l3}
M = {m3}
M3
M4
CL
{cl}
PARAMETERS:
w0 = 4.0u
w1 = 8.0u
w3 = 8.0u
w5 = 8.0u
w7 = 5.0u
w9 = 4.0u
l0 = 2.0u
l1 = 1u
l3 = 0.35u
l5 = 0.35u
l7 = 0.35u
l9 = 1.35u
m0 = 2
m1 = 2
m3 = 2
m5 = 4
m7 = 2
m9 = 2
m3b = 2
m5b = 2
m11 = 4
m12 = 2
vdda = 3.3
vssa = 0.0
ibias = 55u
vidc = {(vdda+vssa)/2}
vstep = 1m
vs1 = {(vstep/2)*(-1)}
vs2 = {(vstep/2)}
per = 10us
pw = {per/2 - tr}
tr = {0.01*per}
td = {per/2}
cl = 1pF
{ibias}
Ibias
M0
M12
M11
M1
M2
M7
M8
M9
M10
W = {w0}
L = {l0}
M = {m0}
W = {w0}
L = {l0}
M = {m12}
W = {w0}
L = {l0}
M = {m11}
W = {6*w1}
L = {l1}
M = {m1}
W = {6*w1}
L = {l1}
M = {m1}
W = {w7}
L = {l7}
M = {m7}
W = {w7}
L = {l7}
M = {m7}
W = {w9}
L = {l9}
M = {m9}
W = {w9}
L = {l9}
M = {m9}
vip
vin
vg7
vg9
vtail
vbn
vssa
vd10
N


vdda
vssa
vidm
vicm
{vdda}
Vdda
{vssa}
Vssa
V1 = {vs1}
V2 = {vs2}
TD = {td}
TR = {tr}
TF = {tf}
PW = {pw}
PER = {per}
VSdm
DC = 0
AC = 1
VScm
DC = {vidc}
AC = 0
V1 = {vidc}
V2 = {vidc}
TD = {td+1}
TR = {tr}
TF = {tf}
PW = {pw}
PER = {per}
0

vip
vin
vidm
Eip
vssa
E
GAIN = 0.5
vcmin
Ein
GAIN = -0.5
vicm
Eicm
GAIN = 1