NGSPICE

```
.temp 27
.ic v(v_vout)=0
.control

tran 0.005u 15u uic
plot v_ena v_out

let vout_limit=0.8*0.99
meas tran tcross WHEN v(v_out)=vout_limit
let vena_limit=0.5*1.5
meas tran tstart WHEN v(v_ena)=vena_limit
let tsettle=tcross-tstart
print tsettle

.endc
```
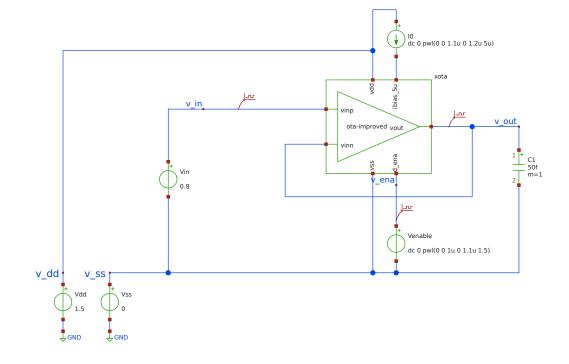
I0
dc 0 pwl(0 0 1.1u 0 1.2u 5u)

xota

v_in

vdd    ibias_5u

vinp

ota-improved  vout

vinn

vss    ena

v_ena

v_out

C1
50f
m=1

Vin

0.8

Venable
dc 0 pwl(0 0 1u 0 1.1u 1.5)

v_dd      v_ss

Vdd       Vss

1.5       0

GND       GND

simulate          annotate OP

MODEL2

```
.lib cornerRES.lib res_typ
```

MODEL1

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

XSCHEM