

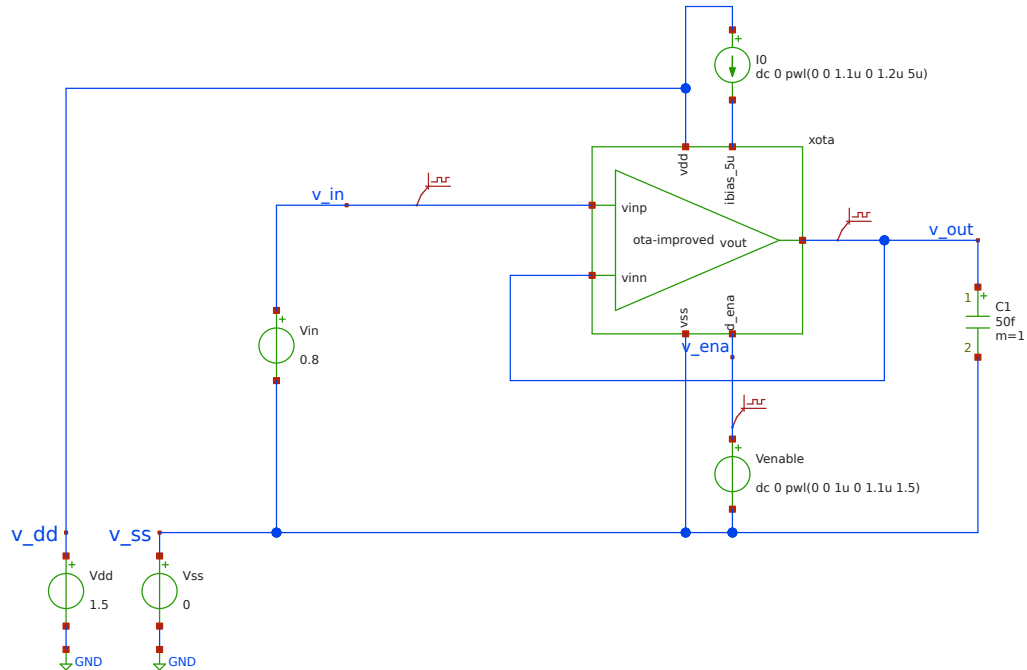
## NGSPICE

```
.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
```



## MODEL2

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

## MODEL1

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

➡ simulate

➡ annotate OP