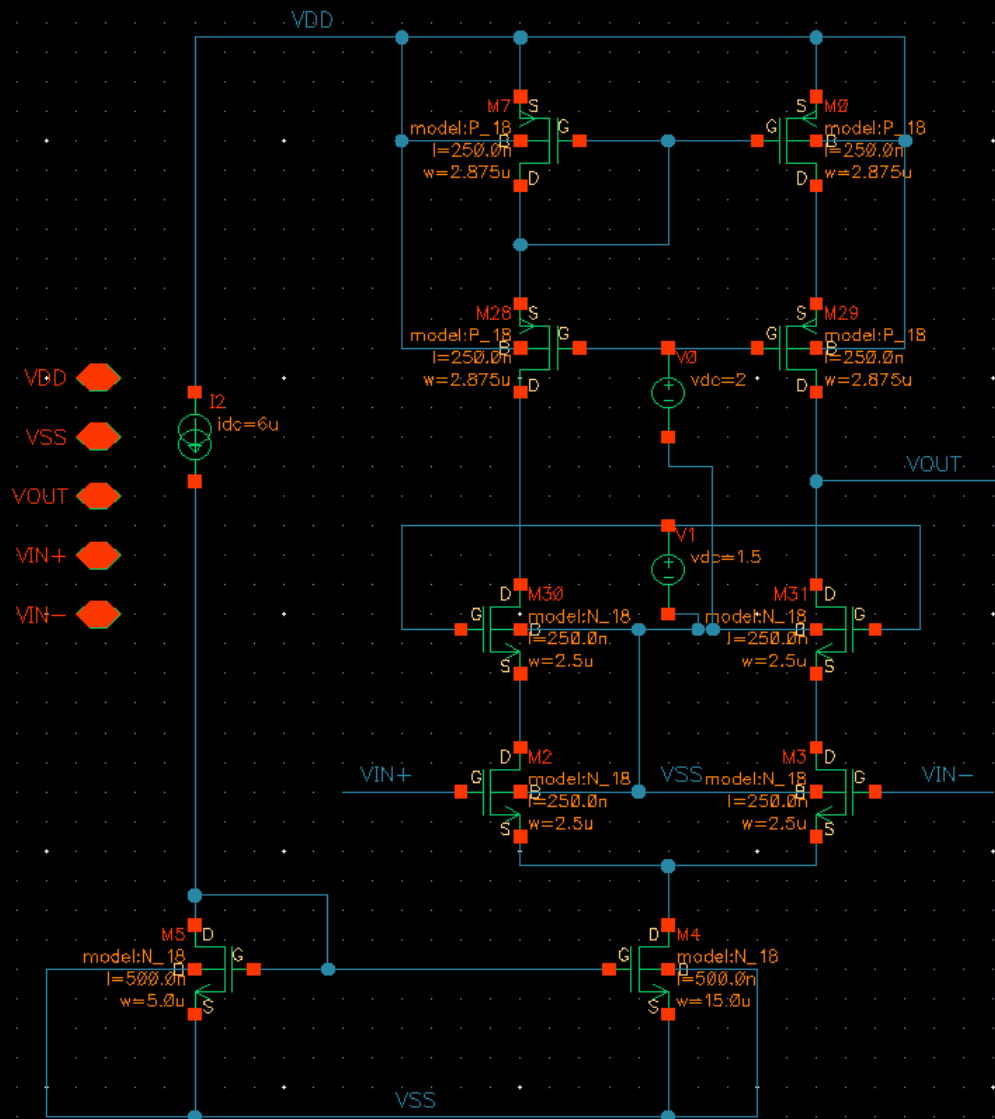


Opamp模擬

411440117

Schematic



```
163.13.132.18 - PuTTY
CIC_Lib      PIPO.SUM.INV  cds.lib      logs_edull131045
INV.calibre.db  _rule.drc      display.drf  model
INV.drc.results ast-graph      libManager.log op-ac-response.grf
INV.drc.summary astlib      libManager.log.1 skill
PIPO.LOG.INV  calibre      libs        sourceMe

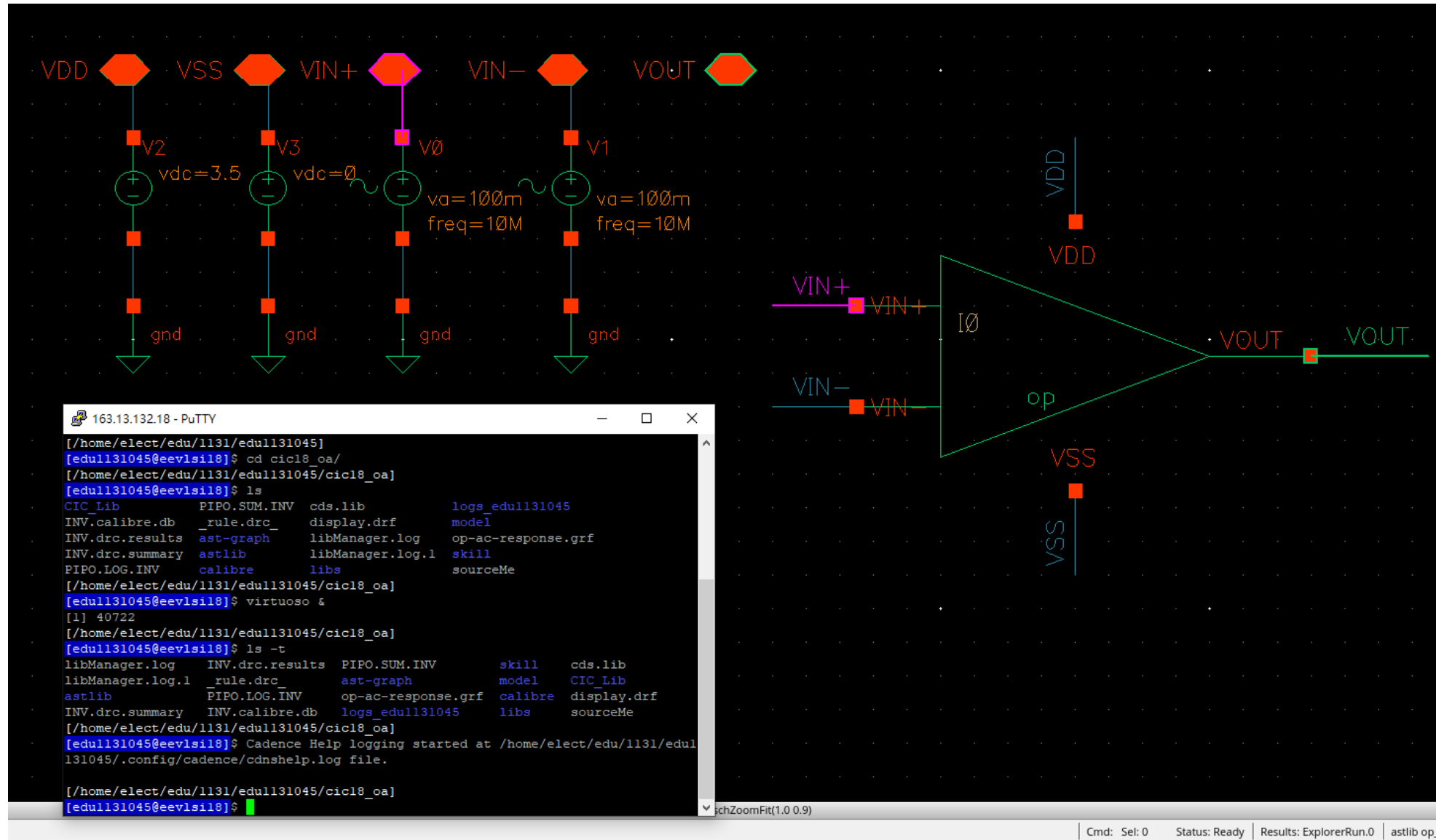
[/home/elect/edu/1131/edull131045/cic18_oa]
[edull131045@eevlsi18]$ virtuoso &
[l] 40722
[/home/elect/edu/1131/edull131045/cic18_oa]
[edull131045@eevlsi18]$ ls -t
libManager.log  INV.drc.results  PIPO.SUM.INV  skill  cds.lib
libManager.log.1 _rule.drc      ast-graph      model  CIC_Lib
astlib          PIPO.LOG.INV    op-ac-response.grf calibre display.drf
INV.drc.summary INV.calibre.db  logs_edull131045 libs   sourceMe

[/home/elect/edu/1131/edull131045/cic18_oa]
[edull131045@eevlsi18]$ Cadence Help logging started at /home/elect/edu/1131/edull131045/.config/cadence/cdnshelp.log file.

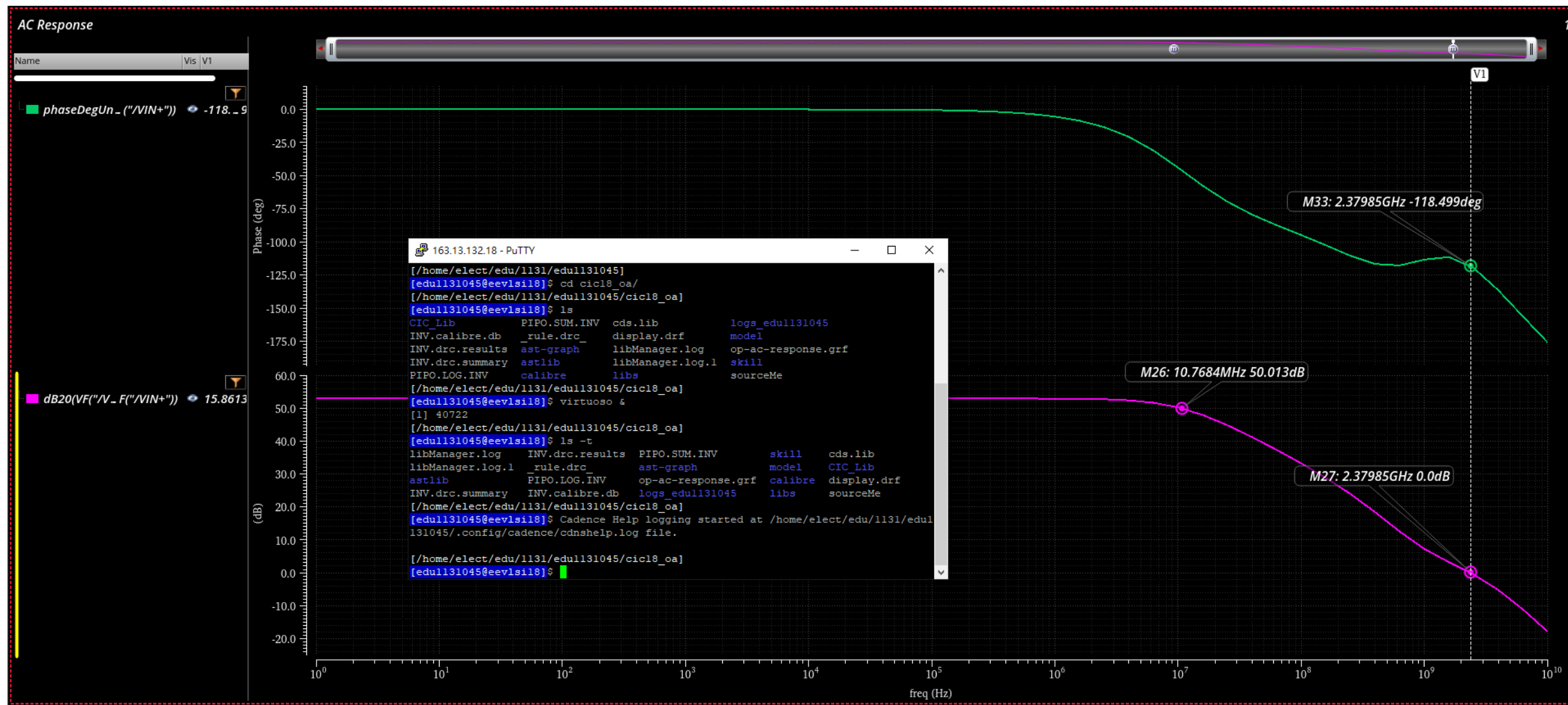
[/home/elect/edu/1131/edull131045/cic18_oa]
[edull131045@eevlsi18]$ Cadence Help logging started at /home/elect/edu/1131/edull131045/.config/cadence/cdnshelp.log file.

[/home/elect/edu/1131/edull131045/cic18_oa]
[edull131045@eevlsi18]$
```

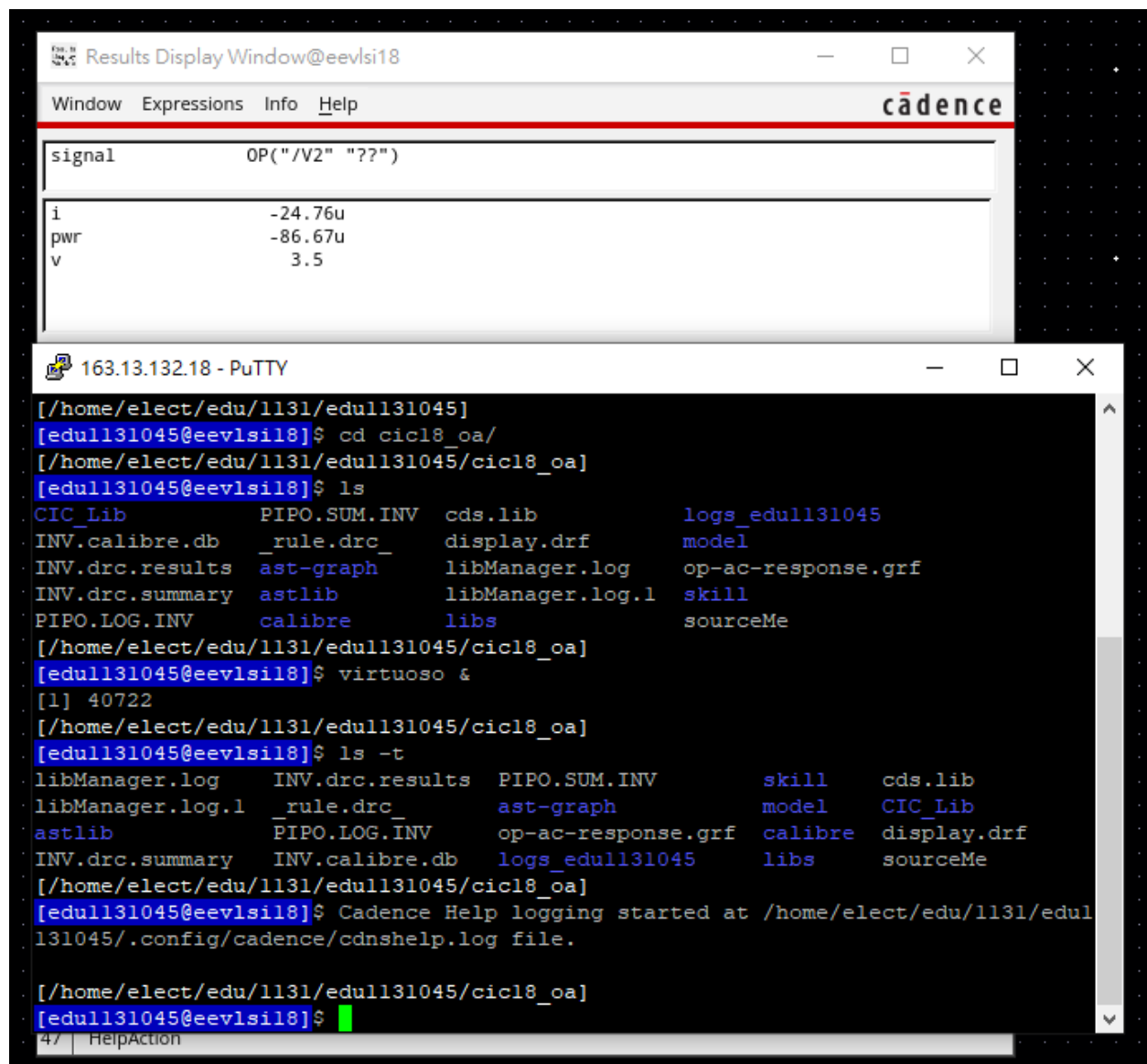
Test Bench



波德圖



功耗



The image shows two overlapping windows. The top window is the 'Results Display Window@eevlsi18' from Cadence, displaying power analysis results for a signal. The bottom window is a PuTTY terminal connected to 163.13.132.18, showing the execution of various commands to navigate the file system and list files.

Results Display Window@eevlsi18

signal	OP("/V2" "??")
i	-24.76u
pwr	-86.67u
v	3.5

163.13.132.18 - PuTTY

```
[/home/elect/edu/1131/edull131045]
[edull131045@eevlsi18]$ cd cic18_oa/
[/home/elect/edu/1131/edull131045/cic18_oa]
[edull131045@eevlsi18]$ ls
CIC_Lib      PIPO.SUM.INV  cds.lib      logs_edull131045
INV.calibre.db  _rule.drc_   display.drf  model
INV.drc.results ast-graph    libManager.log op-ac-response.grf
INV.drc.summary astlib       libManager.log.1 skill
PIPO.LOG.INV   calibre     libs         sourceMe
[/home/elect/edu/1131/edull131045/cic18_oa]
[edull131045@eevlsi18]$ virtuoso &
[1] 40722
[/home/elect/edu/1131/edull131045/cic18_oa]
[edull131045@eevlsi18]$ ls -t
libManager.log  INV.drc.results  PIPO.SUM.INV  skill  cds.lib
libManager.log.1 _rule.drc_      ast-graph     model  CIC_Lib
astlib          PIPO.LOG.INV    op-ac-response.grf calibre display.drf
INV.drc.summary INV.calibre.db  logs_edull131045 libs   sourceMe
[/home/elect/edu/1131/edull131045/cic18_oa]
[edull131045@eevlsi18]$ Cadence Help logging started at /home/elect/edu/1131/edull131045/.config/cadence/cdnshelp.log file.
[/home/elect/edu/1131/edull131045/cic18_oa]
[edull131045@eevlsi18]$
```

規格表

	規格	This work
増益	$\geq 40\text{dB}$	50db
頻寬	$\geq 10\text{M Hz}$	10.7M Hz
Phase Margin	$> 60\text{ degree}$	61.5 degree
功耗	$< 100\text{u W}$	86.67u W