

Cadence Schematic Analysis

1. Logon to linus.
2. Bring up Virtuoso
3. Open Library -> Cell -> Schematic (the analog opamp from previous tutorial)
4. Put in power supplies and signals:
 - a. Put 1 ohm resistor from non-inverting node to ground. (Not Vss!)
 - b. Place ac source from inverting node to ground (mag $1e-3$ V)
 - c. Place Vdd! and Vss! (+2.5 V and -2.5V, respectively)
 - d. Put in constant current source (arrow down on extreme left dangling node)
5. Launch ADE_L
6. Setup -> simulator
 - Choose Spectre
 - Project Directory ~/cadence/simulation
 - O local
 - OK
7. Setup -> Model libraries
 - Click football shape under Section
 - Goto ~/cadence/models/spectre/ami06N.m and ami06P.m
 - Highlight and Open
 - Will come up in Model File Window
 - OK
8. Analysis ->Choose ->ac
 - Start-Stop 100 10000
 - OK
9. Outputs -> to be plotted -> select on schematic
 - Left click line (not node!)
 - Hit Esc.
10. Simulation -> List and Run (Should have a gain of ~1000)