

SETTING UP AND RUNNING CADENCE FOR IBM 130 nm

A. SETUP

To initialize the Cadence Virtuoso environment for IBM8RF on your VLSI account:

- 1) LOG ON TO LINUX, right click on the desktop, go to “Open in Terminal”, and make a terminal window, and then go to your home directory (“~/” means home directory)
> **cd ~/**
- 2) Copy .cshrc and .cdsenv file from the instructor’s account to your home directory (“.” means current directory)
> **cp /home/graduate/zmsaif/.cshrcIBM .cshrcIBM** (creates backup copy)
> **cp .cshrcIBM .cshrc**
> **cp /home/graduate/zmsaif/.cdsenvIBM13 .cdsenvIBM13** (creates backup copy)
> **cp .cdsenvIBM13 .cdsenv**
- 3) Make a working directory “IBM13”
> **mkdir IBM13**
> **cd IBM13**
- 4) Copy .cdsinit, and display.drf files from the instructor’s account (don’t forget the .) to your working directory, check them with “ls -a” (show all files including hidden files)
> **cp /home/graduate/zmsaif/IBM13/.cdsinit .**
> **cp /home/graduate/zmsaif/IBM13/.cdsplotinit .** (doesn’t work yet)
> **cp /home/graduate/zmsaif/IBM13/display.drf .**
> **cp /home/graduate/zmsaif/IBM13/.simrc .**
> **cp /home/graduate/zmsaif/IBM13/lib.defs cds.lib**
> **ls -al**
Find the files in your home directory. If you can’t, copy them again
- 5) AND CREATE YOUR plots, DRC, and LVS DIRECTORIES
> **mkdir plots**
> **mkdir DRC**
> **mkdir LVS**
- 6) CLOSE TERMINAL WINDOW by typing
> **exit** (type over and over until terminal closes)
- 7) LOG OUT of LINUX (left-click your username in the upper-right corner... Quit...)

B. OPERATION (Repeated, each time you log in)

- 1) LOG ON TO LINUX, right click on the desktop, go to “Open in Terminal”.
- 2) OPEN A C-SHELL and GO TO YOUR IBM13 DIRECTORY
 - > **cs**h
 - > **cd**
 - > **cd IBM13**
- 3) LAUNCH CADENCE Virtuoso (& means perform command in background):
 - > **virtuoso &**
- 4) Close the “What’s New” Window by left-clicking the x in the upper-right corner
- 5) Start Library Manager by left-clicking
Tools... Library Manager...
- 6) DO YOUR WORK IN CADENCE ... CLOSE AS MANY WINDOWS AS YOU CAN, THEN EXIT CADENCE from **icfb** window:
File ... Exit ... Yes
- 8) CLOSE TERMINAL WINDOW by typing
 - > **exit** (type over and over until terminal closes)
- 9) LOG OUT of LINUX (left-click your username in the upper-right corner... Quit...)

When you finish working with Cadence you have to close all the programs properly. **Otherwise you will leave a lot of processes running.** So close Cadence, and finally log out of your computer.

The command below will find and remove locked files

```
find . -name '*.cdslck' -exec rm {} \;
```