Introduction

This document provides step-by-step instructions for setting up your ECE 418 class directory to use the Cadence design tools. It also shows the steps you will have to complete each time you want to run Cadence after the initial setup.

How to Setup Cadence for the First Time

Initial Setup

- Login to one of the UNIX machines in EB 1307/EB2200/EB1328 using your egr account.
- Right click on the desktop and press Utilities/Terminal to get a command prompt window.
- Change to your ECE 418 directory by typing the following in the command prompt
  \texttt{cd /egr/courses/personal/ece418/\langle username\rangle} (space after \texttt{cd})
- Create a directory called \texttt{cadence} by typing \texttt{mkdir cadence}.
  \texttt{\textcolor{red}{o this is an optional step that will keep all of your cadence files in a subdirectory of your class directory. you can skip this step and keep all files at the root level if you prefer, but the rest of this document assumes you have created a 'cadence' subdirectory.}}
- Go to the directory ‘cadence’ by typing \texttt{cd cadence}.
- Type \texttt{source \$SOFT/cadence} (case sensitive)
  \texttt{\textcolor{red}{o this command sets up your directory to work with Cadence, installing some necessary files and linking to appropriate network files.}}
- Type \texttt{icfb&}
  \texttt{\textcolor{red}{o the ‘&’ is not required but will allow you to continue using the command prompt window even while Cadence is running.}}

The \texttt{icfb} command will invoke the Cadence session. Two windows will open. The small window is known as Command Interpreter Window (CIW) which will be present throughout your session. The other window is known as Library Manager which keeps track of all the design work that you do.

In the Library Manager window you will see the following libraries:

- NCSU\_Analog\_Parts
- NCSU\_Digital\_Parts
- cdsDefTechLib
- basic

If the libraries above do not appear in your Library Manager window please consult a TA.
Exiting Cadence
This completes the initial setup for Cadence. If you plan to continue using Cadence (e.g., to do an assignment) skip this step. Otherwise, to exit Cadence select

File->Exit

in the CIW (Command Interpreter Window).

What to Do Each Time You Run Cadence

After the initial setup, each time you run Cadence you need to first complete the following steps:

- Login to one of the UNIX machines in EB1307/EB2200/EB1328 using your egr account.
- Right click on the desktop and press Utilities/Terminal to get a command prompt window.
- Change to your ECE 418 directory by typing the following in the command prompt

  cd /egr/courses/personal/ece418/<username>  

  (space after cd)
- Type source $SOFT/cadence (case sensitive)
- Type icfb& to launch the Cadence tool.

Additional Resources

The class website has links to several sources for additional information, including some detailed information from Cadence manuals. If you are not experienced with UNIX and need some information on basic UNIX commands, the class website also has a link to DECS UNIX help page.