

Cadence Use tips:

## 1. File transfer (download manual of Cadence)?

I would suggest use SSH secure file transfer, which can be downloaded at <http://www.ssh.com/support/downloads/secureshellwks/non-commercial.html>

It is a free software and easy to use. You could change file permissions, add new directory, upload and download files.

It is especially useful when you want to download manuals, which are located at `/space/cadence/doc/`. You could find a whole bunch of folders there, which are named after different tools Cadence has. For example, if you want to know more details about spectre, you probably need to look at folder of spectreuser. The manuals list all the details, but it is sometimes too completed that you need to spend a lot of time to read through the whole manual. I would suggest to just google the keyword you would like to learn about. A lot of universities list tutorials and examples online, which I found are easier to learn than just read the whole manual. Here I found this listing a lot of tutorials online: <http://www.ece.osu.edu/cadence/cdsTutorials.html>.

Paras has offered to help get Adobe installed in wally, therefore you would directly open pdf file using Xwindow. Before that, you would still need to download the file into your PC to view it.

You can't delete an unemptied folder using this software, but you could do it using shell window. Just type `rm -r directory_name`.

## 2. How are Cadence libraries saved (where to find your work)?

When a new Cadence library is created, the data is stored in a new directory with the same name as the library. This directory is created in the current working directory, the directory you were in when you started Cadence with `icfb&`. Cadence stores all files associated with this library, such as cellviews, schematics, and symbols, inside this one directory.

## 3. What if Cadence crashes (recover your work or unlock cellviews)?

First, please save your work from time to time.

When Cadence seems to hung, so that it seems that you cannot do anything on any Cadence window, before closing Cadence do the following:

-Look at the mouse pointer. If it is not showing a clock when you are on Cadence windows, make sure that there is not any small pop-up window hidden and waiting for you to enter a certain parameter.

-Be patient. Some Cadence procedures take some time (usually less than 3-4 minutes).

If you have decided that Cadence is really hung and it's time to close it, write the following from the shell window:

```
kill -HUP <your icfb process number>
```

You could type `ps` to get your icfb process number. It will give Cadence a break to save all files in a certain way (creating a `panic.log` file).

What if Cadence crashes? Usually you will have in your Cadence working directory some new files:

-A **core** file. Remove it. Type `rm core`.

Then try to open your cellviews.

-If the cellviews don't have the more recent changes, please refer to **panic.log** in your Cadence working directory, you will get there the instructions to recover such file.

For example:

Cellview (loopgain schematic) from lib (ThirdOrder) is saved in the panic file (/nfs/guille/analog1/k/kaj/AMI/ThirdOrder/loopgain/schematic/sch.cd-)

To recover do:

```
dbOpenPanicCellView("ThirdOrder" "loopgain" "schematic")
```

Just paste the last line into the bottom text input box of the ICFB window. It should respond with some sort of cryptic success message. Then simply open the cellview and hopefully most of your work will be restored.

-If the cellviews cannot be open for editing. They are edit locked. Try the following:

Type *clsAdminTool* and you'll get a > prompt.

Type *ale full\_path\_to\_your\_library\_directory*. You should get a list of existing locks in the library.

You could type *are full\_path\_to\_your\_library\_directory* to release all the locks in the library or

type *asre full\_path\_to\_the\_locked\_file* to release the lock on a particular file.

#### **4. How to share files within group?**

Create the library as usual. Set the permissions so that everyone can access the library and read the library's files. Type *chmod 711 your\_library\_directory*. Have your teammates use Cadence library path editor to add your library to their library manager using the same library name and path that you used. Then your teammates can reference or copy your Cadence files. Remember, if your library referenced other libraries you made, you will need to share those as well.