

VLSI Design Flow: RTL To GDS (NPTEL Course)

Lab Tutorial 1

Objective: To get familiarized with the UNIX environment

Requirement: A UNIX system

If you have a system (such as laptop) with WINDOWS, you can download Windows Subsystem for Linux (WSL) and start working on it. See the following link for more detail:

<https://learn.microsoft.com/en-us/windows/wsl/install>

Basic UNIX commands to start with:

Command	Purpose	Example
ls	Lists files and directories	ls
cd	Change directory	cd [directory_name]
pwd	Outputs the full path name of the current working directory	pwd
mkdir	Make new directory	mkdir [directory_name]
mv	Move/rename files	mv [source_file] [destination_file]
cp	Copy a file or a directory	cp [source_file] [destination_file]
touch	Create an empty file	touch [file_name]
rm	Remove files or directories	rm [file_name]
cat	Reads and shows contents of a file	cat [file_name]
which	Locate the executable file of any command	which [command_name]
man	Display user manual/ man-page of any command	man [command_name]
sudo	Allow user to run commands at system/root level	sudo apt-get update
du	Measure disk space occupied by files or directories	du -h
df	Displays amount of disk space available on file system	df -h
ps	Lists active processes	ps
top	Dynamic real-time view of running system	top
bg	Place a job into the background	bg [job_spec]
fg	Put a background job in foreground	fg [job_spec]
history	Displays list of commands used in the terminal	history
whoami	Displays the username of the current user	whoami

See man pages of the commands for more information. Additionally, there are lots of useful material on internet.