1. htop, top, ps can show all the processes on Linux

2. killall -u i56087 kills all processes invoked by the user.

3. qstat -u i56087 -s r | wc -l : count the number of running jobs.

4. find /usr -name "libprofiler.so" will search for the file named "libprofiler.so" in the directory of /usr.

5. Today I succeeded in installing the latest TeXlive outside Linux machine template onto my home space. It was done step by step from the internet, and the key is not to select auto install, but interactive install which allows you to choose the place where TeXlive will be installed. After installation, created a shell script pdflatex.sh in .local/bin since this directory is on the path, and inside the script, added $1 to let it auto read the argument in the command line. Happy.

6. Linux show directory size: du -sh /home/i56087/TeXLive

7. Seems that in Linux, if you have a custom shell script s.sh file that is not in $PATH, then you should do: source s.sh.

8. Read arguments in the command line in shell script: $1, $2 .. or $@ for all.

9. echo 'something' | command to execute: this format is to feed 'something' if the command to execute later demands some input.

10. Install a package to a specific location:

sudo dnf --installroot=/home/i56087 --releasever=/ install python39-devel

Note that --releasever=/ is mandatory. And the above command will install all dependencies to the directory that contains python39-devel.

11. Move many files to a directory (recycleBin): sudo mv -t recycleBin bin boot Chrome  dataShare dev etc  home lib lib64 media mnt opt proc  root run sbin srv sys   tmp  usr var xrdp

12.  Install python development package: sudo yum install python39-devel

13. ldd: check out the dependent libraries.

14. file: check file type.

15. nm: show all the symbols in an executable.

16. qstat -j jobID | grep error  : show the error when linux cluster jobs are in eqw state.

17. cd - : this returns the last directory you were in.

18. Use rsync to synchronize two directories!

rsync --progress -r -u -t -p ../figure /finance\_develop/commonSpace/combineEPs

-r: recursive, -u: only copy new files and keep all the old ones up-to-date, -t: keep the timestamp, -p: keep the read/write privilege. –progress: show the progress. By default, rsync does not delete existing files in the destination folder even if it finds the same files do not exist anymore in the source folder.