



APPENDIX A: UNIX Command Instructions

 Show current path — `pwd`

```
fuelcycle> pwd
/home3/users/xzw/LLC/ThU/Mod_Den/0.7/casmo4
```


 List the files — `ls`

```
fuelcycle> ls
mf.cax mf.inp mf.log mf.out
```


If one screen cannot hold the full contents, there are two ways to see the whole body of the file. One is to make the terminal scrollable. For instance, from MIT server, one can press the CTRL key and the middle key of the mouse together, then set the Xterm to be scrollable. The other is to use redirection which means type the command as

```
fuelcycle> ls | more
```


And in this way when the current screen is full the system will pause for user's input to scroll to next page.

 Display the file contents — `more`

```
fuelcycle> more mf.inp
TTL * Th-U 50%-50%, with 19.5% enrichment of U-235
TFU=900.0 TMO=583.1
FUE 1 9.8299/8.5803 90232=44.0013 92234=0.0686 92238=35.4211 8000=11.9287
PIC 0.4096 0.4178 0.4750 0.7109/'1' 'AIR' 'CAN' 'COO'
COO 0.7
PDE 40.02905
DEP 0 0.1 0.5 1 5 10 20 30 40 50 60 70 80 90 100
STA
END
```

 Copy the files — `cp`


```
fuelcycle> cp mf.inp test.inp
```

 Delete the files — `rm`


```
fuelcycle> rm test.inp
```

 Make a directory — `mkdir`

```
fuelcycle> mkdir test
```


 Delete a directory — `rmdir`

```
fuelcycle> rmdir test
```


 Change directory — `cd`

```
fuelcycle> cd directionary
```

In UNIX, `./` is the current directory and `../` is the root directory.

 Show the current processes — `ps`

```
fuelcycle> ps
  PID TTY          S          TIME CMD
 11278 ttyvd      S +          0:00.15 -sh (sh)
```

 Change the attributes of a file — `chmod`

```
fuelcycle> ls -l oof
-rw-r--r--  1 xzw      users   3969904 Apr 12 20:24 oof
fuelcycle> chmod +x oof
fuelcycle> ls -l oof
-rwxr-xr-x  1 xzw      users   3969904 Apr 12 20:24 oof
```

Originally the file `oof` is not executable, and it is changed to be executable after the 2nd command.

Finally if you want to see the detailed options for those commands, you can type

```
fuelcycle> man command
```

command means the command you want to look up. One of the other tasks is to prepare the input text file. `emacs` is recommended in UNIX instead of the intrinsic UNIX editor `vi`.