

Unix & Linux commands and tools use in CSE Labs

Checking account details:

Account details can be checked: **acc** or **pp**
Disk quota used: **rquota**
Detailed disk usage: **disk_guess**
Detailed print quota: **priv pquota -v**
IP quota used: **ipq**
Account details on web: https://status.cse.unsw.edu.au/Control_Panel/

Changing brightness on iMac:

Changing background brightness on iMac **priv backlight <value>**, eg: **priv backlight 8**

File management:

List current directory contents: **ls -al**
Remove (delete) a file: **rm -i <fileName>**
Remove a directory: **rm -ir <dirName>**
Copy a file: **cp <fileName> <newFileName>**
Move file or directory: **mv <fileName> <newFileName>**
Display current working directory: **pwd**
Create a directory: **mkdir <dirName>**
Change working directory: **cd <dirName>**
Check a file type: **file <fileName>**
On-line reference manuals: **man <command>**, eg: **man ls**

Manipulating file:

Display the contents of text file(s): **cat <fileName>**
Browse the contents of a txt file per page: **more <fileName>** (press **q** to quit)
Browse the contents of a txt file per line: **less <fileName>**, or **cat <fileName> | less**
Display the first 10 lines(default) of txt files: **head <fileName>**, eg **head -50 myProgram.java**
Display the last 10 lines(default) of txt files: **tail <fileName>**, eg **tail -20 <fileName>**
Convert txt files from DOS to Unix format: **dos2unix <myDOSfile>**
Convert txt files from Unix to DOS format: **unix2dos <myUnixfile>**
Display a bin file: **strings <bin fileName>**, eg: **strings /bin/ls**

Account management:

Change user password: **passwd**
Change file access permissions: **chmod <option> <fileName>**

Compressing files and directories:

Compress a file: **gzip <fileName>** or **zip <fileName>**
Decompress a file: **gunzip <fileName>** or **unzip <fileName>**
Compress a directory: **tar -cvf <archiveName>.tar <dirName>**
Decompress a directory: **tar -xvf <archiveName>.tar**
Tar and zip a directory: **tar -zcf <archiveName>.tar.gz <dirName>**
Untar a .tar.gz or .tgz file: **tar -zxvf <fileName>.tar.gz** or **tar -zxvf <fileName>.tgz**
Decompress files from rar archives: **unrar x <fileName>.rar**

Changing the font size:

Inside an xterm press Ctrl+Button 3 (the right mouse button). The VT fonts menu appears which allows you to change the font size of that xterm.

Calculator and math packages:

Scientific calculator:	xcalc
The MathWorks known as matlab:	matlab
Wolfram Mathematica:	mathematica (licence server wolfram.lic.unsw.edu.au)
Mathematica in text mode:	math (Ctrl-d and quit to exit the interactive mode)
Arbitrary calculator language:	bc (quit to exit the interactive mode)

Word document/spreadsheet:

Word processor:	openoffice
Text editor:	vim, emacs
GNOME spreadsheet application:	gnnumeric
View pdf/ps file:	acroread (or xpdf)/ gv
Convert a file from PS to PDF:	ps2pdf <fileName.ps>
Convert a file from PDF to PS:	pdf2ps <fileName.pdf>
Printing a text file using aps: (for more details about printing please see <i>How To Print From CSE Labs</i> brochure)	aps <option> <fileName> lpr -P<printerName>

Graphical tools:

View an image in .jpg, gif, png, etc...	display/xview <fileName>
Manipulate and paint an image:	gimp, xfig
Convert between image formats, size:	convert
Screen capture (for gnome-session)	gnome-screenshot -i

Using USB stick/CD&DVD drive:

Mount/unmount a USB stick	priv usb mount/ priv usb umount (the USB should be unmounted before physically remove)
Mount/unmount a CD/DVD	priv cdrom mount / priv cdrom umount (the cd/dvd is mounted to /cdrom)
Reject the CD/DVD after unmount	eject
Please refer to <i>Using a USB memory-stick/drive</i> brochure for more detail	

Useful tools:

Use man command to find out:	apropos, cal, clear (ctrl+l), echo, date, du, find, locate, ps, script, top, whereis, who, whoami
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Book commands:

Enter into the booking system:	book
Book a terminal once in the system:	book <start time - finish time><day/ date>
Claim a booked terminal:	claim
Book a terminal using a graphical interface:	tkbook
Book a terminal via web:	https://status.cse.unsw.edu.au/Control_Panel/

CSE Unix Primer

For more details about Linux commands: <http://www.cse.unsw.edu.au/help/doc/primer/>