Command Line Reference

File System Navigation

bwd Prints the working directory pathname

ls Lists file and directory names Is -al Displays file type, permissions, links,

size access date and filenames

of all files

cd dirNm Changes to another working directory

current directory parent directory home directory

root directory, directory separator

File System Management

cp fromFile toFile Copies a file or directory my fromFile toFile Renames or moves a file touch fileNm Creates a file or changes file

timestamps

mkdir dirNm Creates a directory rm fileNm Deletes a file

rm -r dirNm Recursively removes a

directory and contents

rm -rf dirNm Recursively removes a

directory and contents without

confirmation

Viewing & Manipulating Files

cat fileNm Displays a text file

head fileNm Displays the beginning of a file tail fileNm Displays the end of a file

less fileNm Displays a text file one page at a time diff file1 file2 Lists the differences between two files sort fileNm Displays the contents of a file in order uniq fileNm Displays the contents of a file without

duplicates

unia file1 file2 Writes the contents of file1 out to file2

without duplicates

wc filel ist Displays the number of lines, words,

and bytes of a file

Help

man cmd Displays the system manual

q (quit), h (help), f (forward), b (backward), g (go to first line), G (go to last line)

Displays utility information info cmd

q (quits), ? (help), n (next), p (previous)

Shortcuts

tab Auto-completes a filename tab tab Cycles through filenames

ctrl-w Deletes a word ctrl-u Deletes a line ctrl-d Log out of Shell

!! Repeats the previous command Cycles through previous commands up arrow

Filename & Pathname expansion

Matches any single character

Matches any character from 0 to many [list] Matches one character from the list [^list] Matches one character NOT in the list {v1,...,vn} Matches any values from the list

Editing & Manipulating Files

cat > fileNm Redirects command line input.

ctrl-d writes it out

nano fileNm Opens a small friendly text editor vim fileNm Opens a programmers text editor

vimtutor Opens a vim tutorial

File Searching

find dirList opt exp Searches for files given some

criteria

grep opt pattern fileList Searches through files for a

strina

File Processing

sed opt command fileList (Stream editor) filters and

transforms text

awk/gawk/mawk A pattern scanning and text

processing language

Miscellaneous Utilities

echo 'text' Displays text

clear Clears the terminal screen date Displays the time and date gcc Compiles c and c++ programs make Keeps a set of programs current open fileList (MacOS) Opens files, directories, and

URLs

Access Root Privileges

su Become a superuser or another user

sudo Executes commands as a superuser or another

user

Access Permissions

File Type

chmod Changes file or directory permissions charp Changes the group associated to a file

Changes the owner of a file chown

Redirection

Pipelines

Compression & Archiving

azip Compresses a file zip Compresses a file

tar Packs and unpacks archives

Location Utilities

Displays the full pathname of a utility which whereis Displays any references to a utility

User & System Information

df Displays disk space usage

echo \$0 Displays the name of the working shell

hostname Displays the system name who Lists the users on the system

Secure Networking

ssh Securely opens a shell on a remote system sftp

Securely transfer files to and from a remote

Securely copies files to and from a remote system scp

Process Management

jobs Lists jobs

Displays process status ps kill Terminates a process by PID killall Terminates a process by name

ctrl-c Sends a TERM signal ctrl-\ Sends a QUIT signal

ctrl-z Suspend

& Sends a process to the background fg Brings a job to the foreground

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