

Basic UNIX Commands

III M.S (SE) OS Lab (Jul '09 – Nov '09)

▪ UTILITY COMMANDS

➤ CAL

Print the calendar

cal 1998	all months of the year
cal 12 1998	december month of 1998

➤ DATE

Print System date (date can be changed by system administrator)

Options:- d (day of a month), y(2 digits of an year), H,M,S (hour, minutes and seconds)

date system date with time

date +%m print month number

date +%h print month name

date +"%m %h" name and number

date -u universal time

date +%r 12 hr time

➤ WHO

Details about login users

Options:- am I (about user)

who am i

➤ TTY

Know the terminal name. Unix treats terminals in multiuser as files in device directory.

tty

➤ TIME

To calculate the time taken by a command

time sort -o 1.c 2.c

time shows real(elapsed time),user(execution time), sys

time(time by os to do the operation)

▪ FILE SYSTEM COMMANDS

➤ LS

Listing files

ls -x (display files in many columns)

ls -a hidden files

ls -f shows / for directory, * for exe file

ls -r list in reverse order

ls -R recursive listing

l (long listing) i (inode number) t (modification time) u (access time)

➤ CP

Copy the contents of one file to another

cp t1.txt t2.txt

cp -i s1.doc s2.doc prompts an alert message

cp -r copying directory structures

➤ RM

Remove a file from the directory

rm filename

rm -i filename interactive remove

rm -f filename forcibly remove a file

rm -r directory name delete a directory with contents

➤ MV

Move a file to another(rename)

Move a file from one directory to another

➤ WC

Count of lines ,words, bytes in file

cat <filename> |wc (all)

cat <filename> |wc -l (only lines)

cat <filename> |wc -c

VI Editor Commands

Cursor Movement Commands:

Esc h	Move the cursor left by one character
Esc j	Move the cursor down by one line
Esc k	Move the cursor up by one line
Esc l	Move the cursor right by one character
Esc ^ d	Scroll the screen down by 12 lines
Esc ^ u	Scroll the screen up by 12 lines
Esc ^ b	Scroll the screen up by 24 lines
Esc ^ f	Scroll the screen down by 24 lines
Esc \$	Move the cursor to the end of a line

Insert and Replace Commands:

Esc a	Append to the right of the cursor
Esc A	Append at the end of the line
Esc I	Insert at cursor position
Esc o	Insert a blank line below the current
Esc O	Insert a blank line above the current
Esc rx	Replace character at current cursor

Word Movement Commands:

Esc w	Move to next word
Esc b	Move backward to previous word
Esc e	Move to the end of the word

Deletion and Modification Commands:

Esc dw	Delete Word
Esc dd	Delete line
Esc cw	Change word
Esc cc	Change line
Esc C	Change rest of the line from current
Esc D	Delete rest of the line from current cursor
Esc J	Join lines
Esc x	Delete char at current cursor position
Esc u	Undo last change
Esc U	Restore last change

Pattern Finding Commands:

/pattern	Find the next line containing the pattern
Esc n	Find the next occurrence of the pattern
?pattern	Find the previous line containing the pattern

Block Operation Commands:

Esc yy	Yank current line into buffer
Esc nyy	Yank n lines into buffer
Esc p	Put back yanked text after the cursor
Esc P	Put back yanked text before cursor
Esc ndd	Delete n lines from current cursor
Esc n>>	Shift n lines by one tab position to right
Esc n<<	Shift n lines by one tab position to left

Saving and Exiting From Vi:

ESC : w	Save all changes made
: wq	Save all changes and quit from vi
: @	Quit
: q!	Quit without saving
: !command	Execute Unix command

Unix Commands:

C	COMPILE C PROGRAMS CC [OPT] FILES. -c Produce only object files. -o out file Produce an output object file by the name out file.
Cat	CAT FILE Display the file contents.
Ls	List the contents of the directory.
g++	Compile c++ programs