Shell Commands (part 3)

CS 3336

echo

Just print out its string parameters. Often used with variable expansion to generate output from a shell script. Example: echo "My home is \$HOME"

• -n Don't automatically print a newline at the end of the output.

env

Report exported environment variables.

grep

Read from files listed on the command line (or stdin) and report lines that match a given pattern. Usage: grep pattern file1 file2 ... Example: grep "printf" test.h test.c

- -v Report only lines that don't match the given pattern.
- -c Don't report matching lines, just print the number of lines that match in each input file.
- -E Interpret pattern as extended regular expression syntax (more on this later)
- -i Ignore case
- -n Prefix each reported match with the line number
- -q Quiet mode. Don't print anything. Just use the exit status to report whether or not a match was found.

find

Recursively search directories to find matching files. By default, just print out matching pathnames. Usage: find path options

- -print Print out each matching path.
- -type f Only report matching files.
- -type d Only report matching directories.
- -mmin -n Report files modified less than n minutes ago.
- -mmin +n Report files modified more than n minutes ago.

- -mtime -n Report files modified less than n days ago.
- -mtime +n Report files modified more than n days ago.
- -exec command; Execute command for each matching file.

stat

Display information about files. Usage: stat options file

- -c '%s' Report size in bytes.
- -c '%U' Report name of the owner.
- -c '%G' Report group ownership of the file.

sort

Sort lines of given file (or stdin) and output them in sorted order. Usage: sort file or sort

- -n Interpret each line as a number and sort by magnitude.
- -r Sort in reverse order.

wc

Report the number of bytes, words and lines in a file.

- ullet -c Just report number of bytes.
- -w Just report the number of words.
- -l Just report the number of lines.

chmod

Change the permissions on a file or directory. Usage: chmod $options\ file$

- +x Add execute permissions.
- -w Remove read permissions.
- **u+w** Add write permissions for the user that owns the file.
- g+r Add read permissions for the group that owns the file.
- **o-x** Remove execute permissions for others (other than the file's owner or group).
- **a+r** Add read permissions for everyone