# Lab 2 Report

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Using the ls to list the files in order of time I found out the most recent file modified in the lab directory was check.sh, which name I've written into latest-file.info. The directory report, showed up prior to check.sh (since I just modified main.tex and generated main.pdf, but since it is a directory and not a file, I disconsidered it.

#### Command:

ls -1 -t

emacs latest-file.info

#### Disphering output:

From the output I looked at columns 6-9 because 6-8 says when the file was created/last modified and column 9 says the file name.

#### Options used:

- -1 shows more information per file
- -t orders the files by modification time

#### Sources of informtion:

- 1s --help: Found list of options
- https://www.tutorialspoint.com/how-to-list-the-last-five-modified-files-in-linux#: ~:text=Using%201s%20Command&text=The%20%2Dt%20option%20sorts% 20the,modified%20file%20at%20the%20top.: Found on Google

Using  ${\tt ls}$  and  ${\tt wc}$  connected with a pipe ( | ) I listed all items in my lab directory and counted the number of words on that list.

#### Command:

```
ls -A | wc -w
emacs count.info
```

#### Disphering output:

The output showed me the number of words on the list of all items in my lab directory. This number represents how many objects there are on my lab directory.

#### Options used:

- -A instructs 1s to list all items, including hidden files
- -w tells wc to count words

#### Sources of informtion:

• https://kodekloud.com/blog/file-count-in-directory-linux/#:~: text=The%20wc%20command%20stands%20for,number%20of%20files%20and% 20directories: Found on Google

Using whereis I could discover the full path to the 1s library.

Command:

whereis -b ls emacs ls.info

Disphering output:

The output gave me the full path to the binary of the program ls.

Options used:

 $\bullet\,$  -b search only for binaries

Sources of informtion:

• whereis --help: Found list of options

Using find I was able to find all the files with the name "readme.txt" in the whole Linux file systems which I had permission to access.

#### Command:

```
find / -iname "readme.txt" -print 2>/dev/null
emacs find.info
```

#### Disphering output:

The output displayed a list of the paths where there is a file named "readme.txt". It was also not displaying the paths which I didn't have permission granted to access.

#### Options used:

- -iname tells find what is the file name we are looking for, case insensitive
- -print print the full path with the file name on the standard output
- 2>/dev/null tells my shell to redirect the permission denied messages (error messages) to /dev/null, hidding them

#### Sources of informtion:

- man find: Found list of options
- https://www.hostinger.com/tutorials/how-to-use-find-and-locate-commands-in-linux/#:~:text=There%20are%20two%20Linux%20commands,only%20on%20your% 20Linux%20database.: Found on Google
- https://www.cyberciti.biz/faq/bash-find-exclude-all-permission-denied-messages/: Found on Google

Using htop I was able to visualize the live information about running programs, CPU and memory usage.

Command:

htop

emacs taskmanager.info

Disphering output:

The output is a program which displays useful live updated information about your computer, system, and programs, such as CPU and memory usage and running programs. It is a program really similar to Windows' Task Manager.

Sources of informtion:

• https://www.javatpoint.com/linux-task-manager#:~:text=If%20we% 20wish%20for%20a,well%20as%20it%20appears%20good.: Found on Google