CS4375-17800 Fall 2022 Lab Report

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**Lab 1: Introduction to xv6**

Please replace red text with your report text and any tables or figures, names of any accompanying files, etc. Remember to commit all the files for your lab submission, to put the URL for your private xv6 repo in the Teams assignment, to submit the Teams assignment, and to give the instructor, TA, and IA access to your repo.

Task 1. Boot xv6 and explore utilities

Describe your Linux VM setup (e.g., what hardware, what VMM did you use, which Linux flavor and version?)

Wc command : This command let us know different attributes of a file. In the example I used it to rin the README file to see the words , lines and characters of a file.

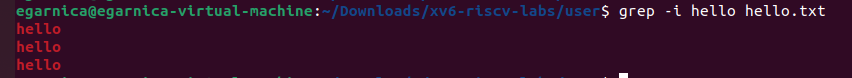


Rm command: this command let us remove files from directories, the command also can use a path to delete the files. In my case I deleted zzz.txt from the suers folder.

Graphical user interface, application

Description automatically generated

Grep command: can be used to search for strings in a file. This can help to search for patterns. In this case I used it to search for the word ”hello” in a file called hello.txt and it printed all the matches.



Task 2.

Text

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In the task two the sleep command was implemented and, the problem that I had was to figure out where the file declared. The issue was that my function wasn’t decaled in the Makefile. After re reading the instruction of the PDF I noticed that that part was skipped

Task 3.

List all the files you added or modified to do this task, along with the purpose of each addition or modification. For example

user/user.h – added getprocs() prototype: int getprocs(struct uproc\*)

user/ps.c – implementation of the ps user command

user/uproc-created to have the getprocs struct

kernel/syscall and user/usys.pl – getprocs was declared

kernel/proc.c – procinfo() was declared and implemented

kernel/sysporc- getprocs() was implemented and called proc info

I ran a lot of issues for the compiling of the task, the program didn’t really run the task 3 since it didn’t compile

I the program keep getting stick in an error, but the files mention was modified, and the code was implemented.

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Task 4.

Due that task 3 was failed task 4 wasn’t complete, but the pseudocode was implemented:

Mktree(int indent,int pid)

If(pid does not have a child){

Print(process)

return

}else if(pid has a child){

For(n children from pid){

Print(process)

Return tree(indent+1,childpid

}

}

**Discussion Question:** Answer the discussion question as well as you can, given what you have learned at this point in the class.