

University of Texas at Dallas--Computer Science Program

CS 5348 Operating Systems Concepts Fall 2021

Project 2-Part 2

You need to implement the following commands and the commands are additional commands to your program developed in Project 2-Part 1: Keep in mind that all files are small files. No large files at all for this part of the project. Any reference to v6 in this description refers to the modified v6 file system that you are familiar with in Project-2-Part-1.

(a) cpin externalfile v6-file

Create a new file called v6-file in the v6 file system and fill the contents of the newly created file with the contents of the externalfile. The file externalfile is a file in the native unix machine, the system where your program is being run.

(b) cpout v6-file externalfile

If the v6-file exists, create externalfile and make the externalfile's contents equal to v6-file.

(c) rm v6-file

Delete the file v6-file from the v6 file system.

Remove all the data blocks of the file, free the i-node and remove the directory entry.

(d) mkdir v6dir

create the v6dir. It should have two entries . and ..

(e) cd v6dir

change working directory of the v6 file system to the v6dir

(f) q

Save all changes and quit. Keep in mind that all file names starting with / are absolute path names and those not starting with / are relative to current working directory.

For example the following sequence

```
mkdir /user
```

```
mkdir /user/Venky
```

```
cd /user/Venky
```

```
cpin myfile-in-native-unix f1-in-v6
```

is possible where f1-in-v6 is created in the directory /user/Venky of the v6 file system

Due date: November 19, 2021 11:55 pm.

For planning purposes, there will be one last part to this project.