NETWORK PROGRAMMING ASSIGNMENT2P1 Design Document

This is a custom-made file system to store large files on multiple systems.

Date Submitted: November 17,2019

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Deliverables included: Client.c, fileNameServer.c fileDataServer.c, run.sh, server address

To run a particular file (file.c): bash run.sh file

Server_address contains the ip address of the fileNameServer

Working of the Code:

- Since the fileNameServer is the main controller, it is run first (bash run.sh fileNameServer).
- Then, all the fileDataServers are run which connect to the fileNameServer (run fileDataServers by running bash run.sh fileDataServer)
- Lastly, Client is run (bash run.sh Client)

Assumption: fileDataServers remain online throughout Client's run and no further connections are accepted after Client is run.

Commands-

- 1. Is Is will list all the directory and file names in the current working directory. Syntax Is
- mkdir Make a directory with name specified Syntax - mkdir dirname
- 3. cd Change the current working directory Syntax cd dirname
- 4. tobigfs Transfers a local file (not directory) to our custom file system (saved with the same name in current working directory)
 - Syntax tobigfs path/filename Creates filename in bigfs
- 5. rm To remove a particular file in the current working directory

 Svntax rm filename Should be in cwd
- 6. cat Display the contents of a file in the current working directory Syntax cat filename Should be in cwd

- 7. mv Move a file from one location to another Syntax - mv source_path destination_path For renaming a file, mv fileName newFileName
- 8. cp Copy a file from one location to another Syntax cp sourcePath destinationPath
- 9. frombigfs Transfer a file from bigfs to local system Syntax frombigfs filepath