

In this problem, you will implement a simple protocol for exchanging files and related information between a file server and a client.

The server must support the following commands received from the client:

- a. `listdir`: Runs the `ls` command in the current working directory on the server, stores the result in a temporary file on the server, sends the temporary file to the client, and deletes the temporary file on the server.
- b. `rmvfile some_file`: Runs the `rm some_file` command in the current working directory on the server.
- c. `getfile some_file`: Sends `some_file` from the current working directory on the server to the client.
- d. `putfile some_file`: Receives `some_file` from the client and creates it in the current working directory on the server.

Note: The server must run on one of the Linux machines in CL115 because it uses the `fork` system call.

The client must support the following commands:

- a. `listdir`: Requests the server to send a directory listing for the current working directory on the server.
- b. `rmvfile some_file`: Requests the server to delete `some_file` from the current working directory on the server.
- c. `getfile some_file`: Requests the server to send `some_file` to the client from the current working directory on the server.
- d. `putfile some_file`: Requests the server to receive `some_file` from the client and store it in the current working directory on the server.
- e. `stop`: Terminates the client.