A Better Open

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Design:

The design of this program is relatively simple. Since the entire premise of the project is only writing open and close on a different machine, the bulk of the work was in establishing a connection to the desired remote machine and being able to successfully send commands to the machine in order to open files on said machine.

The program first establishes a connection to the remote machine. It performs various checks to make to sure the connection is valid and allows for transmission of data. Once a connection is established and its validity is verified, the commands to perform remote reads and writes can be called.

When a netread or netwrite command is called, the data for the call is passed into the buffer, and then sent to the remote machine. The remote machine performs the specified action, and then passes the result of the command into the buffer which is then read by the host computer.

Since this project is not reinventing the wheel, this project is relatively simple design wise, the difficult part of the project came from properly establishing the connection and an effective implementation of the buffer.