WRITEUP

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1 Testing

1. Basic testing listed in various posts on piazza.
2. COMMANDS USED
    a. curl localhost:[portnum]/filename
    b. curl -T local_file localhost:[portnum]/filename
    c. curl -I localhost:[portnum]/filename

2 Questions

1. Most of the code is there for error handling. Since errors can occur for much of the socket creation process as well as the message handling process, a lot of error handling takes place to ensure a working program.

2. The errors that we needed to handle for requests are Bad Request, Forbidden, Not Found, and Internal Server Error. The response codes were 400, 403, 404, and 500 respectively. Generally speaking, invalid file names resulted in a 400 bad request, errors when opening a file would result in a 403 forbidden or a 404 not found depending on the errno value, and general read/write errors result in a 500 internal server error.

3. If connection is terminated early, the implementation just “puts” whatever has been read from the local file into the created or truncated file.

4. Since HTTP is a text based protocol, endianness doesn’t matter to us in regards to sending and receiving files. Even if there is a endian issue regarding the files, these problems are dealt with by the programs that process the files, not the protocol for send/recv.