

Test:

For testing the code, I use the -v for curl to display all message curl send and receive. For me, I created two files one is bigger than the buffer. Another one is smaller than the buffer. First send the file to server, and I use the write function to display the header server read and then display the information parse out from header. Then I check the file we send, if the file has all we receive, and the message of request is same with the size of file we receive. So, the test is worked.

Then just use the same way to test the big file.

For test get request, I use the same way as testing PUT. The different is I have to check is the message of content length send to costumer is what we send.

Question:

1. all the error message will be been handling when we parse the message, I simply put an if condition to get all the error message. Generally, I spend about three hours to handle the problem.

2. operation is PUT or GET:

- send a message(invalid) to client and start over the loop for nest request.

- File name is not 27 character or have / in it:

- Send a message(forbidden) to client and start over the loop for nest request.

- If read or write return -1 when reading or writing socket

- Send a message(network error) to client and start over the loop for nest request.

3. my program will start over the loop for nest request.

4. It is important, because the client and server are independent, when the server sending or receive message, they need to know how to arrange the file we received, which is the reason why we have htons() in startup code.