

Write Up Assignment 2

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Testing:

I used curl to test, using get, put with content length, and as well as some requests that would fail like incorrect filenames and forbidden or non-existent files. I used two main files to test with: one was a file with Hello World, the other was the entire script of Macbeth, written three times.

Questions:

Running both the servers with the four files, all 4MiB in size, the two servers seem to take around the same amount of time, with the multi threaded only being slightly faster. I assume that this is happening because of two reasons. One being that these files are still not large enough to see a significant difference, and that multithreading only optimizes at a larger scale. The second being that I have no optimized reading and writing from a file, and so my program is only as fast as its slowest part which is reading from a file. To remove this bottleneck, I could try to add threads that work together to read the file and send the buffer to the client.