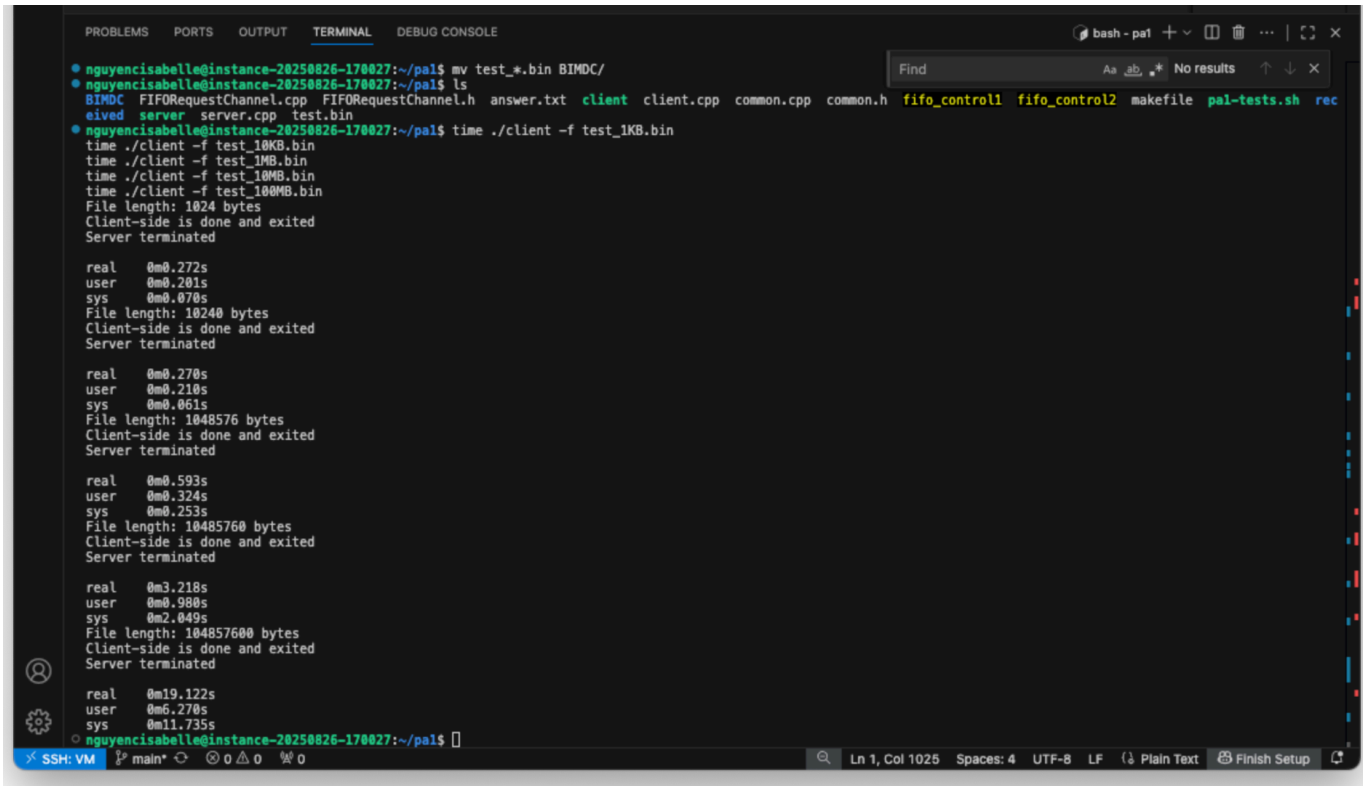
Lab 1 Report CSCE 313 - Isabelle Nguyen

File size	File length	Time taken to transfer
1 KB	1024 bytes	0.272 sec
10 KB	10240 bytes	0.270 sec
1 MB	1048576 bytes	0.593 sec
10 MB	10485760 bytes	3.218 sec
100 MB	104857600 bytes	19.122 sec

The trend between file size vs time taken to transfer makes sense. Bigger files have more bytes, so they would take a longer time to transfer all of those bytes. This is demonstrated by the time difference for the 1 MB and 100 MB files: 0.593 sec vs 19.122 sec.
The main bottleneck that prevents the code from transferring faster is the fact that the client transfers a max of 256 bytes at a time. The 100 MB file takes much longer because the client needs to transfer 104857600 bytes at a rate of 256 bytes per transfer.