CMPE 156 Assignment 2

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1. System flow chart

Client

Server

1. Data Transformation

Client

Server

TCP three way handshake

Send filename as “char[]” to server to request file size

If the file doesn’t exist, server will return error message

Return flag “1” as file open fail, 0 as succeed. If succeed, send filesize as “int”

End of connection

Client kills all threads

Send client request file segment

Server read file with received parameter and send back to client

Send segment size for each thread as “int”

Send start byte for each thread as “int”

Return flag “1” as file open fail, 0 as succeed

TCP three way handshake

Send file name as char[]

End of connection

Client creates threads

1. Test File:

Unfortunately I spent most of the time fixing the functionality. As a result there is not enough time for me to write a test script. I will just use the test sample provided by Professor Parsa.