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Comp 4320

Programming Assignment

1. TCP “StringtoInteger” Client-Server

a.)TCP Client

Graphical user interface, text

Description automatically generated

b.) TCP Server

A screen shot of a computer

Description automatically generated with low confidence

1. UDP “StringtoInteger” Client-Server
2. UDP Client

Text

Description automatically generated

1. UDP Server

Graphical user interface, text

Description automatically generated

Programming Assignment 1 Report

While running TCP, we were able to get the hexadecimal string for every input, but at some points the message received would not show anything and it would be blank. The runtime in ms on the first input was always longer than the rest of the inputs being 8.0+ milliseconds, but after the first and following inputs, the ms decreased until it went to 0 after the first input. After running the Server and Client, the milliseconds always changed from being a long process with the first input, then short process for the rest of the inputs. It did break after the second and third input not showing the receiving, but we ended up fixing it and it does not break at all. It completely runs until we send the message “q”

While running UDP, once we inputted the users message, it went through and it came back as hexadecimal like we wanted. It also showed the time elapsed statistics with the min, max and avg at big values. The user can also input a second message, and it also receives the same statistics, but the time elapsed decreases each time the user inputs the message. The minimum and maximum changes every time the user inputs a message.