Homework 1

Measurement of data transfers using UDP and TCP

The following result have been obtained by comparing the UDP and TCP transmission times in different scenarios of binary data transmission, determined by the size of sent data in bytes, with a message size of 32203 bytes.

The application uses a client server architecture, and given a property, can switch between the UDP and TCP transport protocols.

UDP and TCP

While the TCP is simply a matter of connecting to the given address and port and receiving the data from the server, the UDP stop-and-wait mechanism will send a message only when the client initiates the session and sends the ACK (acknowledged) message to the server.

Results