Server

* Pentru a rula: python server.py
* Argumente:

1. Protocol: udp/tcp, daca lipseste -> udp

* Ex: python server.py tcp

Client

* Pentru a rula: python client.py
* Argumente:

1. Protocol: udp/tcp, daca lipseste -> udp
2. Mecanism: stop-and-wait/streaming, daca lipseste -> stop-and-wait
3. Dimesiunea totala a transmisiunii in mb, daca lipseste -> 100
4. Dimensiunea unui mesaj in bytes, daca lipseste -> 10000

* Ex: python client.py tcp streaming 500 2500

Testare locala:

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Dimensiune mb | Protocol | Mecanism | Timp transmisie | Client:  Messages sent | Client:  Bytes sent | Server:  Messages received | Server:  Bytes received |
| 100 | Udp | Stop-and-wait | 0.73 | 10300 | 102400000 | 10300 | 102400000 |
| 1000 | Udp | Stop-and-wait | 7.23 | 103000 | 1024000000 | 103000 | 1024000000 |
| 100 | Udp | Streaming | 0.08 | 10300 | 102400000 | 8683 | 86328000 |
| 1000 | Udp | Streaming | 0.91 | 103000 | 1024000000 | 81262 | 807928000 |
| 100 | Tcp | Stop-and-wait | 0.52 | 10300 | 102400000 | 10300 | 102400000 |
| 1000 | Tcp | Stop-and-wait | 5.16 | 103000 | 1024000000 | 103000 | 1024000000 |
| 100 | Tcp | Streaming | 0.13 | 10300 | 102400000 | 7056 | 102400000 |
| 1000 | Tcp | Streaming | 1.49 | 103000 | 1024000000 | 86084 | 1024000000 |

Testare remote:

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Dimensiune mb | Protocol | Mecanism | Timp transmisie | Client:  Messages sent | Client:  Bytes sent | Server:  Messages received | Server:  Bytes received |
| 100 | Tcp | Streaming | 120 | 10300 | 102400000 | 13431 | 102400000 |
| 100 | Tcp | Stop-and-wait | 350 | 10300 | 102400000 | 10300 | 102400000 |
| 100 | Udp | Streaming | 13 | 10300 | 102400000 | 10143 | 100842000 |
| 100 | Udp | Stop-and-wait | 601 | 10323 | 102630000 | 10305 | 102440000 |