

# PCD HomeWork1

## Raport

Cehan Dan Stefan ISS1

### Commands

- **Client**
    - *pyhton3 client.py PROTOCOL METHOD MSGSIZE*
  - **Server**
    - *python3 server.py PROTOCOL METHOD MSGSIZE*
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- PROTOCOL =     **UDP   | TCP**
  - METHOD     =     **STREAM | STOP**
  - MSGSIZE   =     **1...65535**

### Notifications

- **Each client will send 10 generated files (sizes between 5mb and 100mb)**
- At the end of execution, the client will print: transmission time, number of sent messages,number of bytes sent.
- After each server session, the server will print: used protocol, number of messages read,number of bytes reads

## STATICTIS

### TCP STREAM 2048

*Client1: Total time = 1.623837 ,total messages = 299520 total bytes = 613416960*  
*Client2: Total time = 1.624654 ,total messages = 309760 total bytes = 634388480*  
*Server: Protocol used: TCP, total messages received : 609283, total bytes received:*  
*1247805440*

### TCP STREAM 8192

*Client1: Total time = 0.771814 ,total messages = 71296 total bytes = 584056832*  
*Client2: Total time = 0.640106 ,total messages = 59520 total bytes = 487587840*  
*Server: Protocol used: TCP, total messages received : 131344, total bytes received:*  
*1071644672*

### TCP STOP 2048

*Client1: Total time = 13.817788 ,total messages = 244224 total bytes = 500170752*  
*Client2: Total time = 18.703493 ,total messages = 323072 total bytes = 661651456*  
*Server: Protocol used: TCP, total messages received : 567296, total bytes received:*  
*1161822208*

### TCP STOP 8192

*Client1: Total time = 5.005350 ,total messages = 78336 total bytes = 641728512*  
*Client2: Total time = 4.303071 ,total messages = 66176 total bytes = 542113792*  
*Server: Protocol used: TCP, total messages received : 144512, total bytes received:*  
*1183842304*

### UDP STREAM 2048

*Client1: Total time = 8.351012 ,total messages = 296960 total bytes = 608174080*  
*Client2: Total time = 5.539191 ,total messages = 185856 total bytes = 380633088*  
*Server: Protocol used: UDP, total messages received : 363866, total bytes received:*  
*745197568*

## **UDP STOP 8192**

*Client1: Total time = 73.276556 ,total messages = 76771 total bytes = 628097034*

*Clinet2: Total time = 70.058666 ,total messages = 71773 total bytes = 587202570*

*Server: Protocol used: UDP, total messages received : 148544, total bytes received:  
1215299604*

