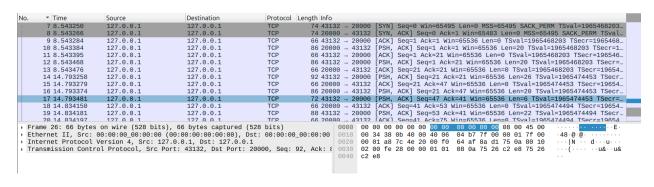
CS39006: Networks Laboratory

TCP SOCKETS

Part-2: Wireshark Analysis

1) What are the source and destination IP addresses and ports?



Source and Destination IP Addresses and Ports:

Source IP Address: 127.0.0.1

Destination IP Address: 127.0.0.1

If packet from server to client

Source Port: 2000

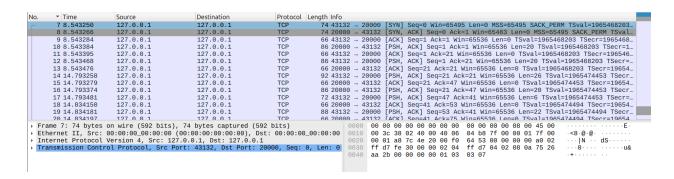
Destination Port: 43132

If packet from client to server

Source Port: 43132

Destination Port: 2000

2) Three-way handshaking procedure and capture all packets exchanged

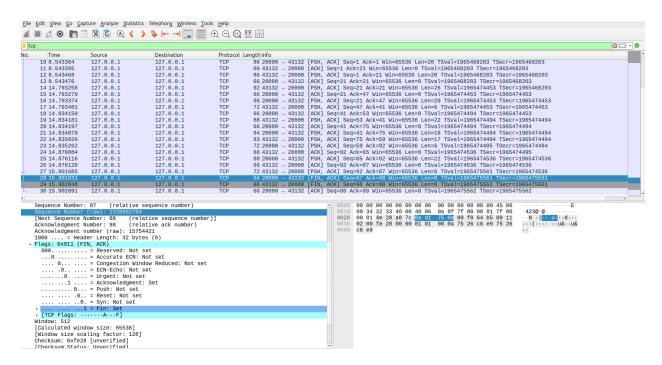


Sequence Number of 1st packet = 15754323

Sequence Number of 2nd packet = 232898707

First three packets are the packets for Three-way Handshaking.

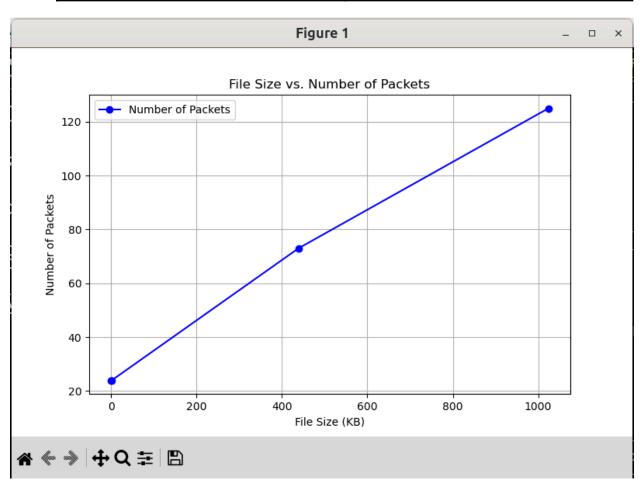
3) connection closure procedure



Last three packets are the packets for Closure Procedure.

4)

File Size	Number of Packets	
13 bytes	24	
2 kB	24	
439 kB	73	
1MB	125	

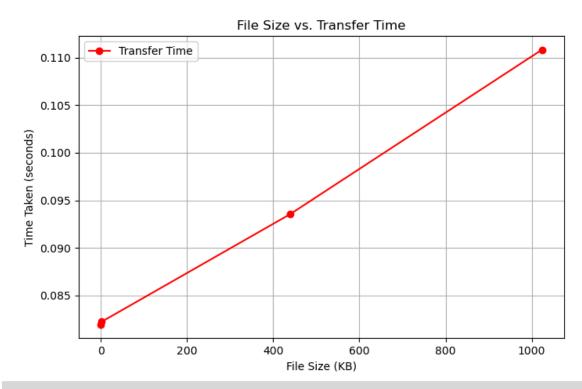


5)

File Size	Start Time	End Time	Total Time
13 bytes	18.865929	18.947889	0.081960
2 kB	21.209978	21.292203	0.082225
439 kB	25.149639	25.243167	0.093528
1MB	25.895709	26.006558	0.110849

Figure 1





6) average size packet exchanged during the data communication \approx 10.0099 kB/Packet