

**Wireshark Assignment 2**  
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IP Address of the webpage is 144.122.171.44. I filtered the packets according to that IP Address.

1) 1,2 and 3 are the numbers of packets which initiates the first TCP Connection. 1 is SYN, 2 is SYN-ACK, 3 is ACK. Port number used on server side is 80 while port number used on client side is 57664.

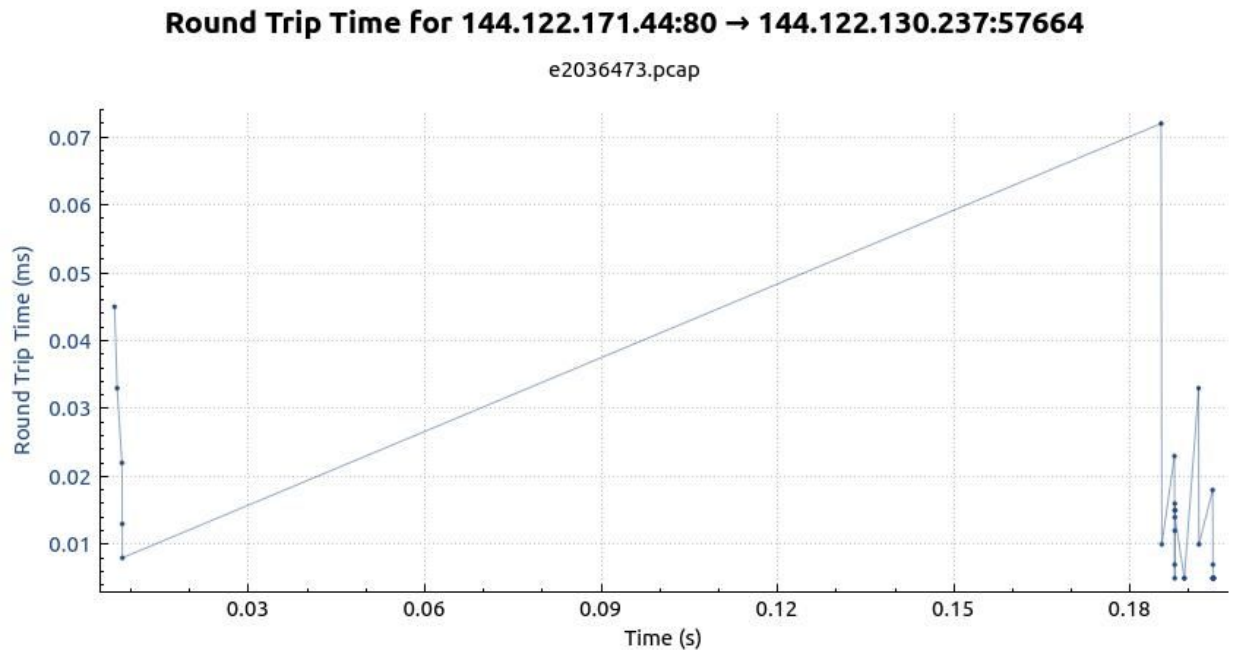
Packet Number	Segment Number	Source Port	Destination Port
1	0	57664	80
2	0	80	57664
3	1	57664	80

2) 21,23,25,27,29 are the numbers of first five packets transferring the “wireshark\_assignment2.png” image data.

Packet Number	Segment Number	ACK Packet Number	ACKed Data
21	6373	22	1374
23	7747	24	1374
25	9121	26	1374
27	10495	28	1374
29	11869	30	1374

3) First TCP Data Packet is packet with number 21. Which has time: 0,185281.  
The last TCP Packet sent by server to client is the packet with number 72. Which has time: 0,194163. So the total time to transfer the wireshark\_assignment2.png is: 0,008882 seconds.

The graph are same for both packet 21 and packet 72 since they respresent the same connection.



4) No, there is no retransmission. I query “tcp.analysis.retransmission” and “tcp.analysis.fast\_retransmission” seperately to the filter and get no corresponding packet.