

1. It uses TCP. Because;

- The data sent by UDP cannot be throttled.
- YouTube don't use real-time streaming videos, so it doesn't need to use UDP.
- User can stop the video, so reliable transmission is important.
- Also, congestion control and flow control is needed for high quality videos.

2.

Computer's IP address: 144.122.242.67

ceng.metu.edu.tr's IP address: 144.122.171.44

YouTube's IP address: 216.58.206.206

3. Packet Number	Destination Port	Source Port
20083	80	45592
20960	80	45592
21114	80	45592
21115	80	45594
21490	80	45592

4. Packet Number	Sequence Number	ACK Number
19964	0	0
20079	0	1
20080	1	1

5. Packet Number	Sequence Number	Segment Length
21241	4813	5496 bytes
21245	10309	6870 bytes
21247	17179	1374 bytes
21341	18553	1374 bytes
21393	19927	2748 bytes

6. The minimum amount of available buffer space advertised at the received for the entire trace is 28960 bytes.

The receiver window will be extended until the maximum buffer space size 62780 bytes. The sender won't be throttled until the receiver buffer space is become full.