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COSC370

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Lab 4

1. IP: 192.168.1.102 TCP Port: 80
2. IP: 128.119.245.12 TCP Port: 1161
3. N/A
4. TCP SYN Seq: 0

* “[SYN]” tag under the info column

1. TCP SYN Seq: 0 SYNACK Seq: 1 TCP initializes to 1

* “[SYN, ACK]” tag under the info column

1. TCP Seq: 1
2. TCP Seq: 1 TCP Sent: 0.026477 ACK: 0.053937

TCP Seq: 566 TCP Sent: 0.041737 ACK: 0.077294

TCP Seq: 2026 TCP Sent: 0.054026 ACK: 0.124085

TCP Seq: 3486 TCP Sent: 0.054690 ACK: 0.169118

TCP Seq: 4946 TCP Sent: 0.077405 ACK: 0.217299

TCP Seq: 6406 TCP Sent: 0.078157 ACK: 0.267802

RTT1 = 0.02746 Estimated RTT1 = 0.02746

RTT2 = 0.03555 Estimated RTT2 = 0.03555

RTT3 = 0.07006 Estimated RTT3 = 0.07006

RTT4 = 0.11443 Estimated RTT4 = 0.11443

RTT5 = 0.13989 Estimated RTT5 = 0.13989

RTT6 = 0.18964 Estimated RTT6 = 0.18964

1. 104 bytes; 1460 bytes; 1460 bytes; 1460 bytes; 1460 bytes; 1460 bytes
2. 5840 bytes
3. There are no repeated Seq numbers throughout the captured packets
4. The receiver ACK confirms 1460 bytes, doubling the bytes will cause every other to segment to be acknowledged
5. fileSize / totalTime = avgThroughput 177851 bytes / 7.596 sec = 23413 bytes/sec
6. Slowstart begins instantaneously and finishes around .15 seconds at which time congestion avoidance is employed. The congestion throttle is not ½, it is an empirically founded fraction.
7. I used the ethereal trace file provided