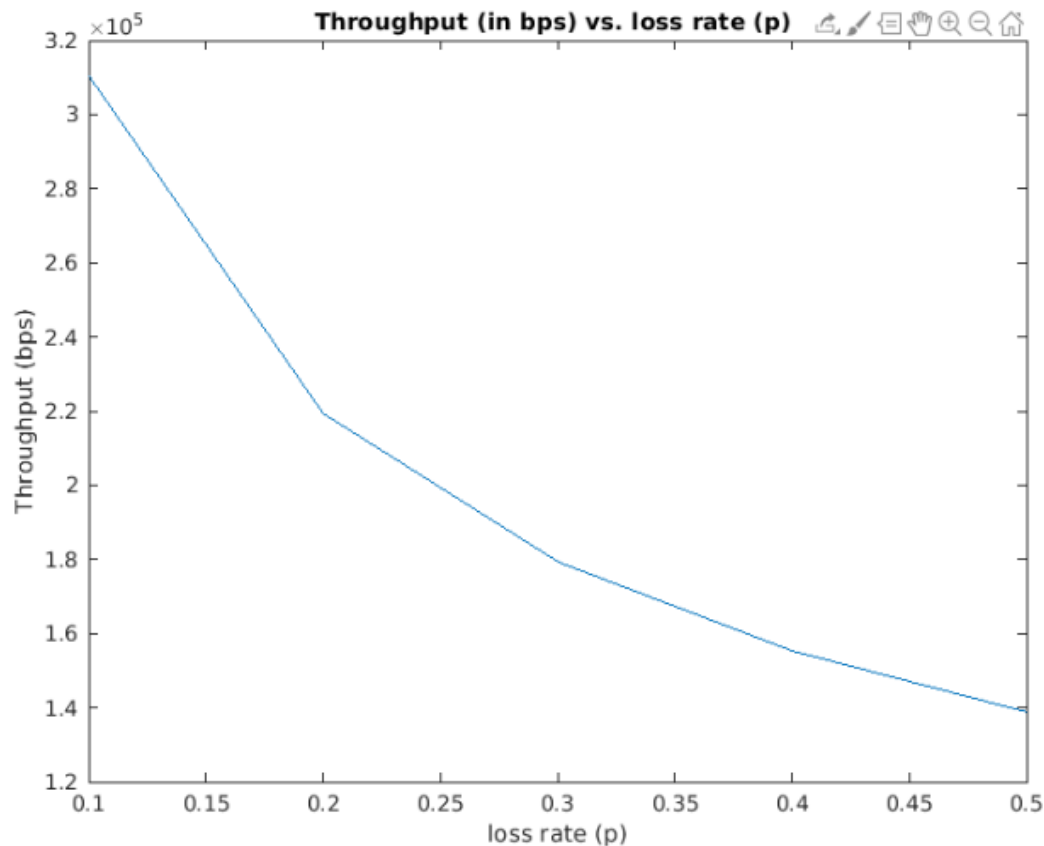Bayram Muradov/ 21503664

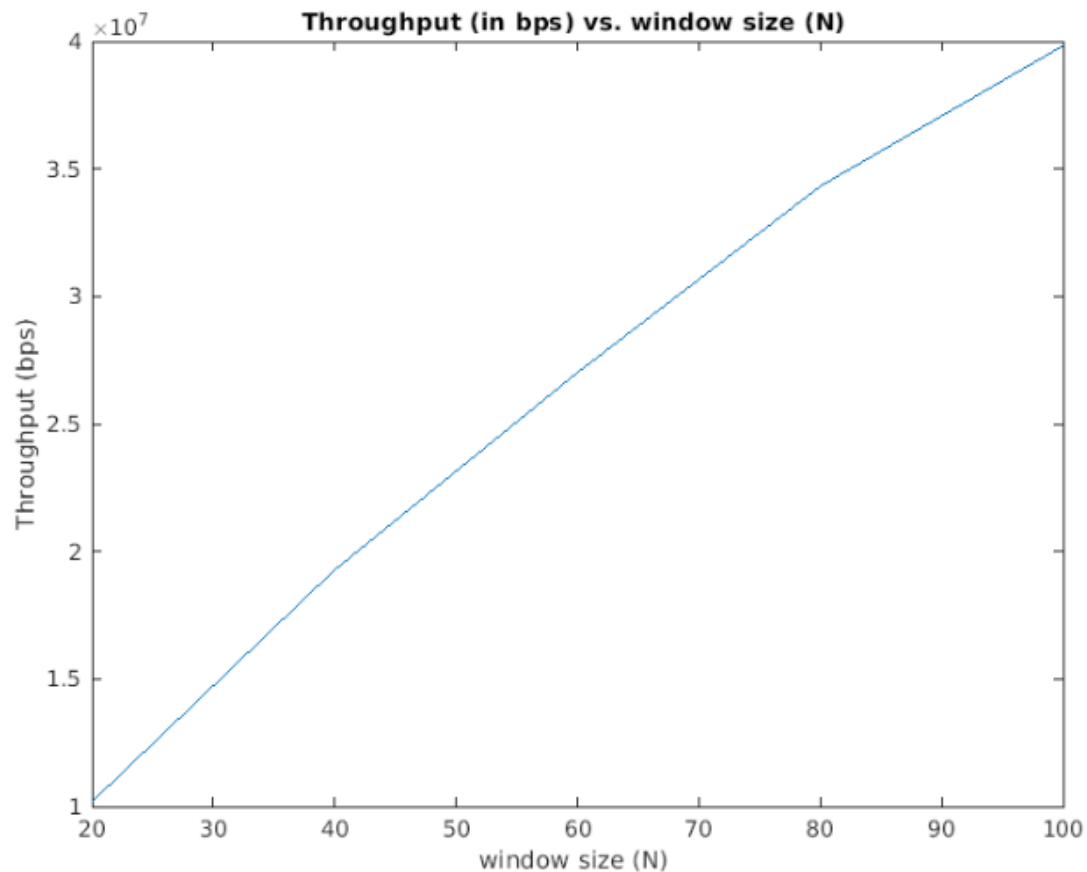Waqar Ahmed/ 21503753

CS 421 Computer Networks

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- The graph of throughput against the loss rate is given below.

The higher the loss, the smaller the throughput will be. This is because the loss packets are needed to be retransmitted. Hence, decreasing the throughput. From the graph above, it can be seen that the throughput Is decreasing with an increase in the loss rate. However, the exactness of how much is throughput is decreasing with loss rate is unknown.

- The graph of throughput against the window size is given below.

Throughput (in bps) vs. window size (N)

The throughput is increased by increasing the window size. This is because the utilization is proportional to window size i.e more packets are sent in one RTT for higher window size. From our graph, it can be seen increasing the window size increases the throughput. Again, for the given parameters, the actual relationship is unknow. However, from the graph it can infer that the relationship between the throughput and window size is approximately linear.