

Assignment - 4

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Part 1

We selected the value of our duration as 1000 because we tried several values of duration and 1000 best fitted our graphs and was also enough to send all the packets and reach steady state.

TCP Hybla:

TCP Hybla flow 171.20.2.1 to 171.20.6.1

Maximum throughput = 2040.967717 kbps

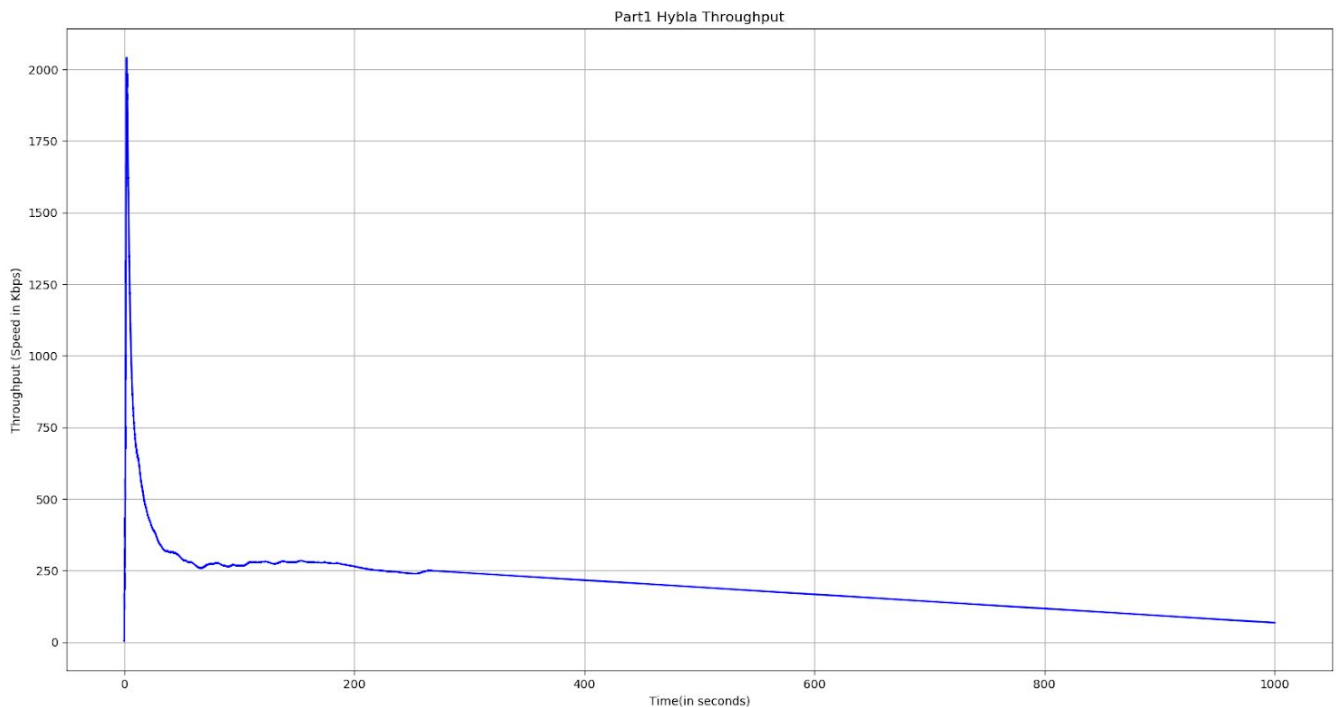
Total Packets transmitted = 1000000

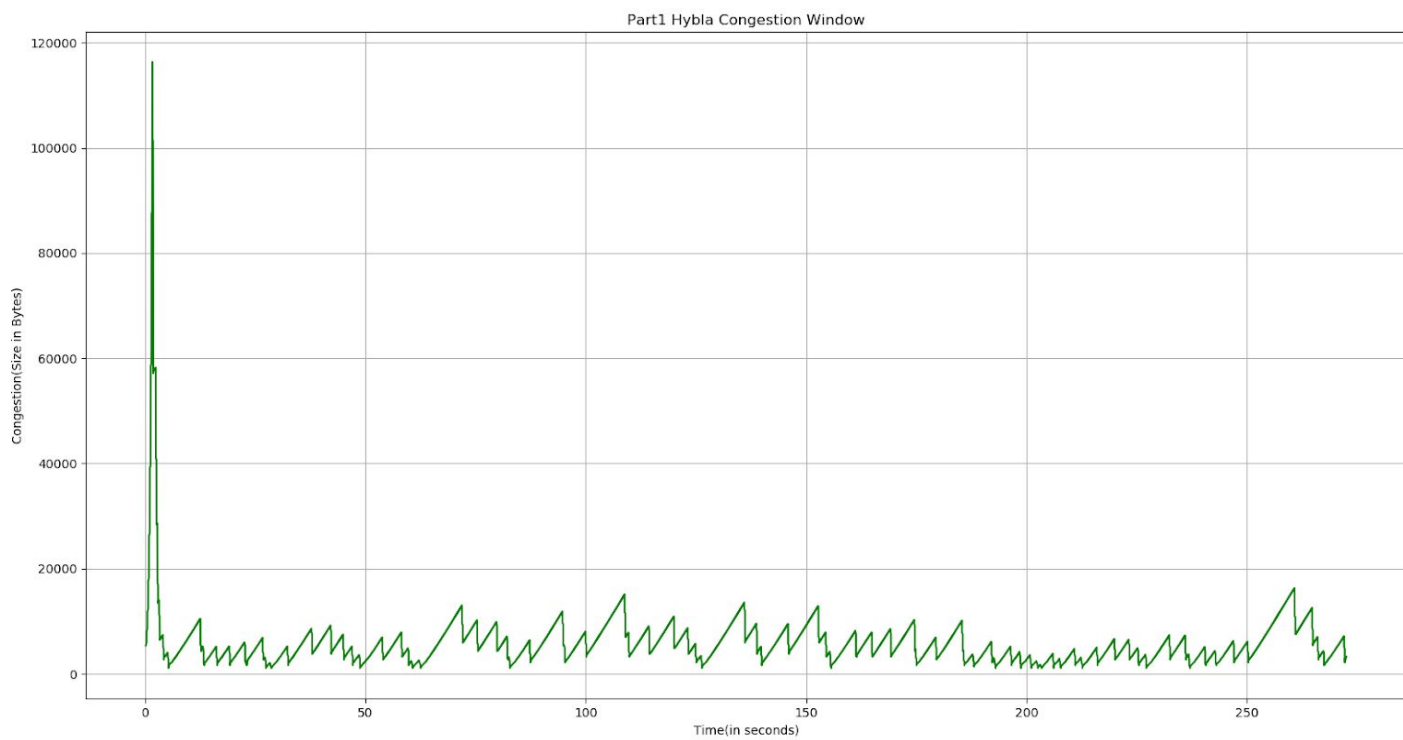
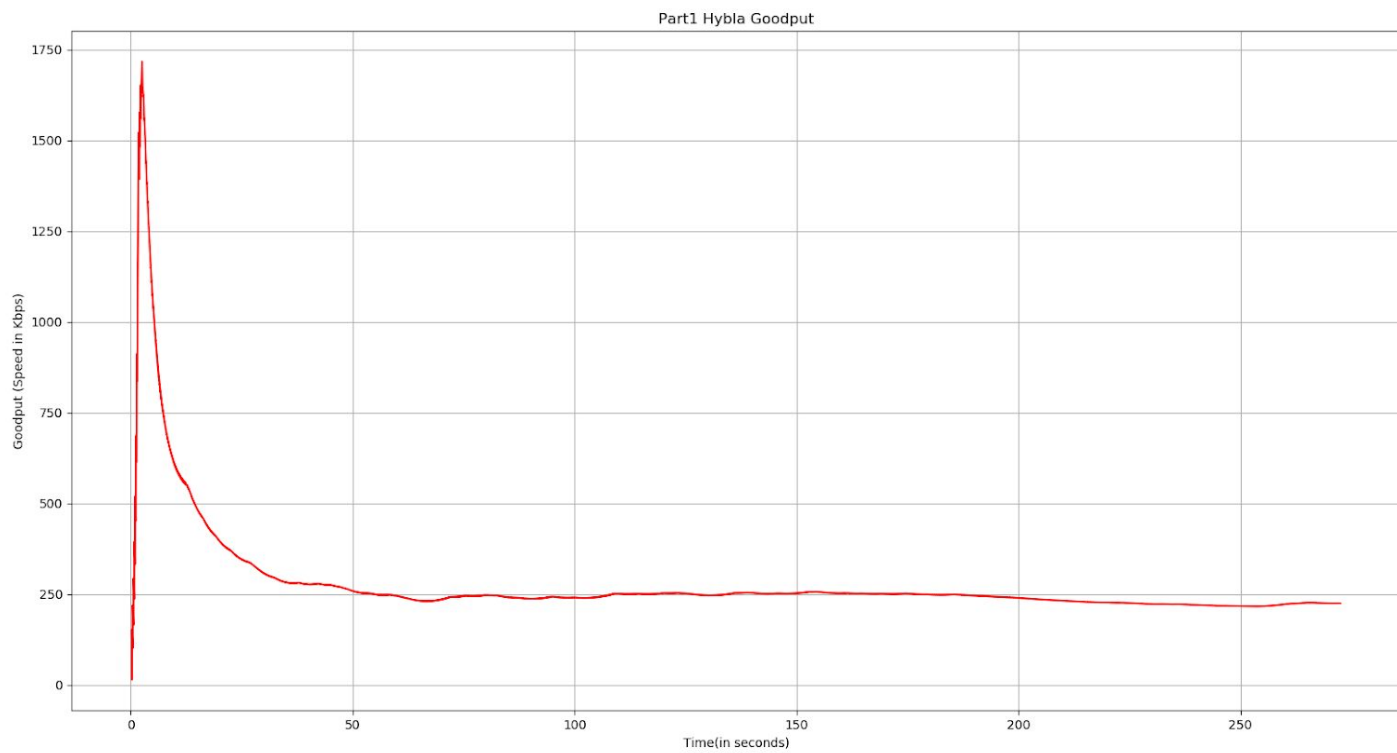
Packets Successfully Transferred = 999908

Total Packet Lost = 92

Packet Lost due to buffer overflow = 0

Packet Lost due to Congestion = 92





TCP Westwood:

TCP Westwood flow 171.20.2.1 to 171.20.6.1

Maximum throughput(in kbps) = 254.627030

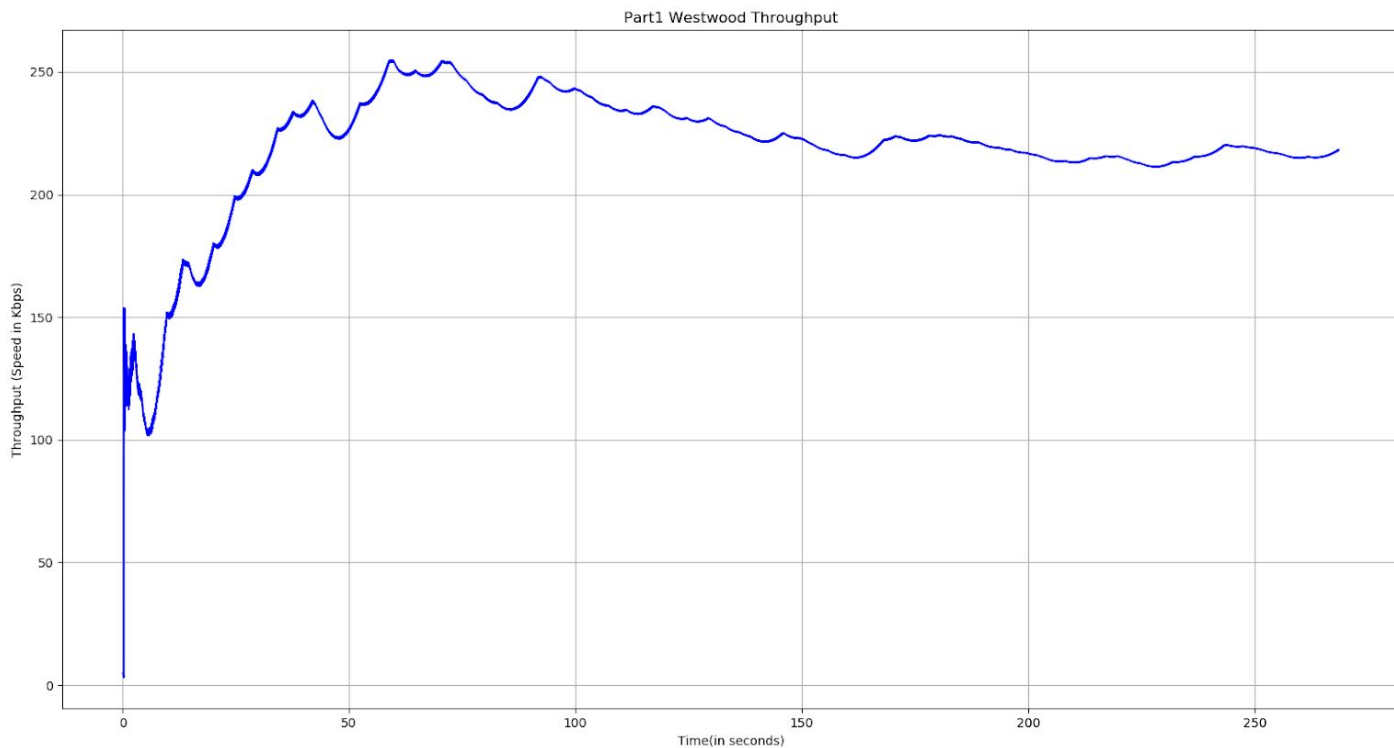
Total Packets transmitted = 1000000

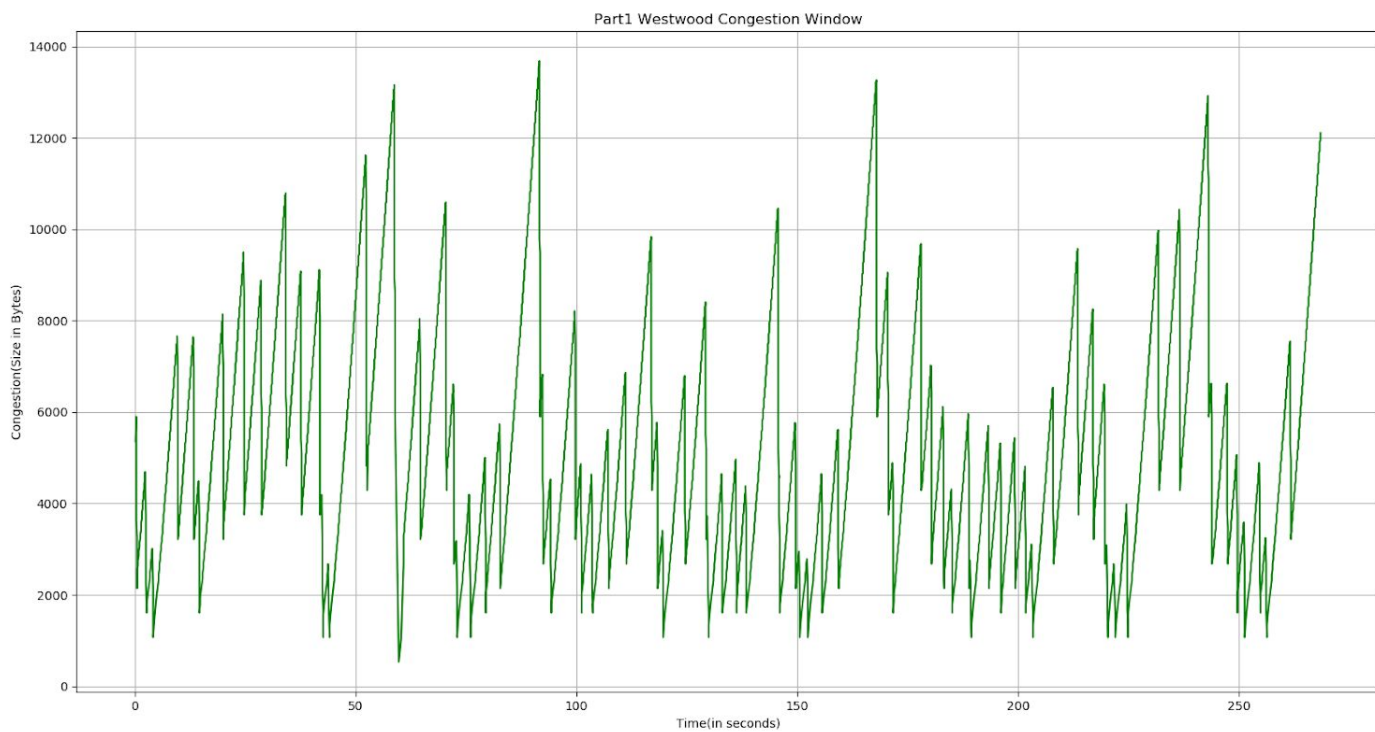
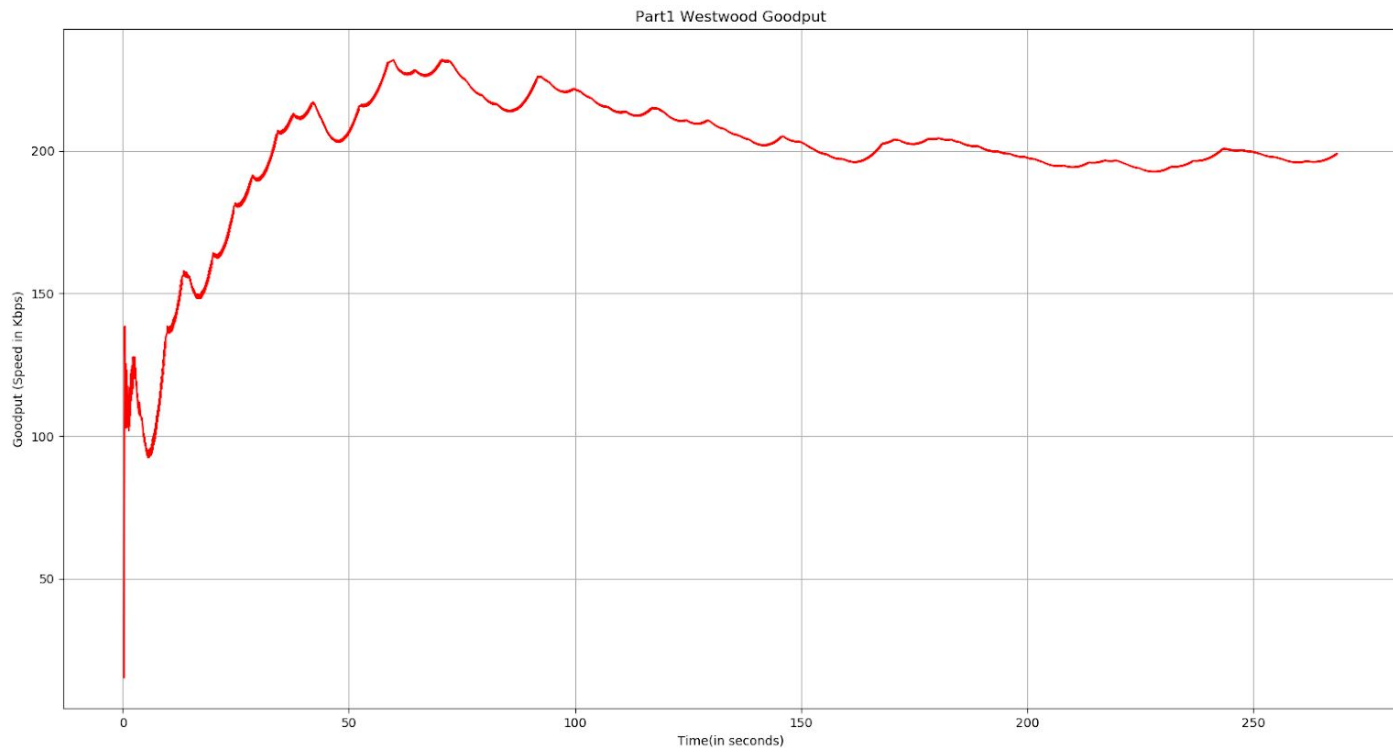
Packets Successfully Transferred = 999918

Total Packet Lost = 82

Packet Lost due to buffer overflow = 0

Packet Lost due to Congestion = 82





TCP Yeah :

TCP Yeah flow - 171.20.1.1 to 171.20.5.1

Maximum throughput = 564.776743 kbps

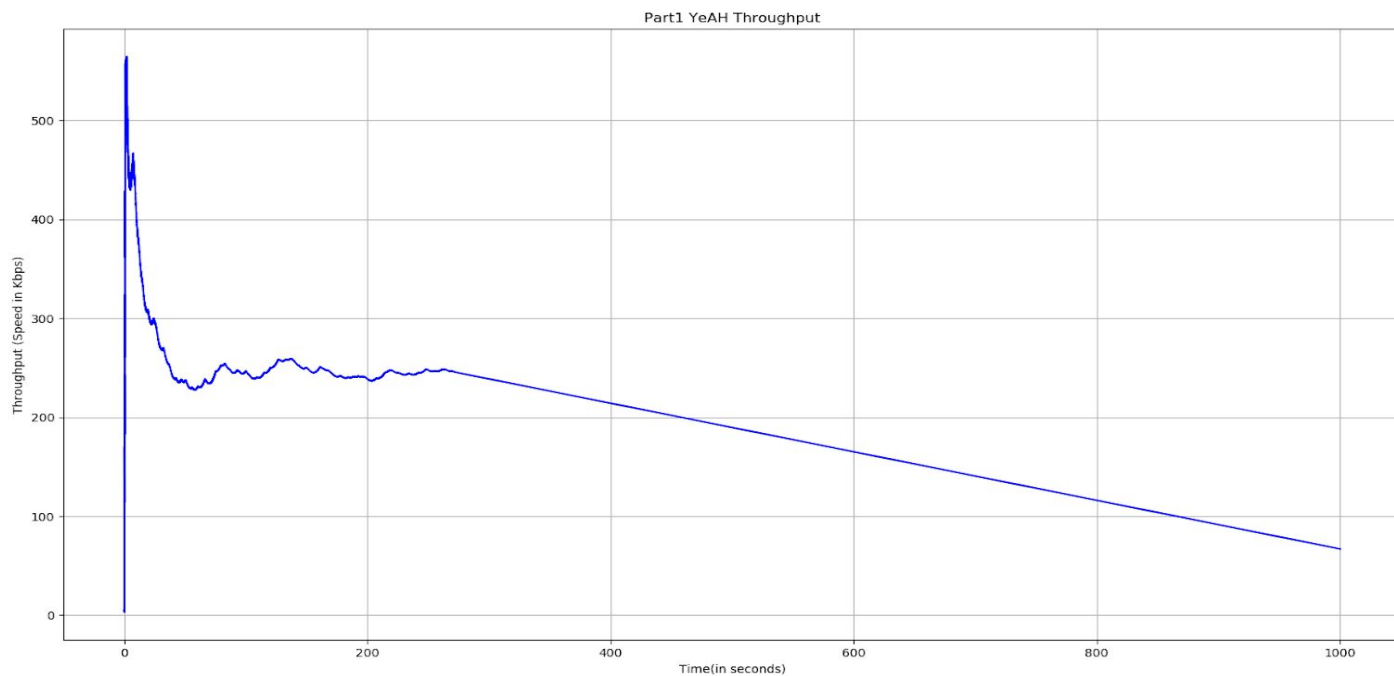
Total Packets transmitted = 1000000

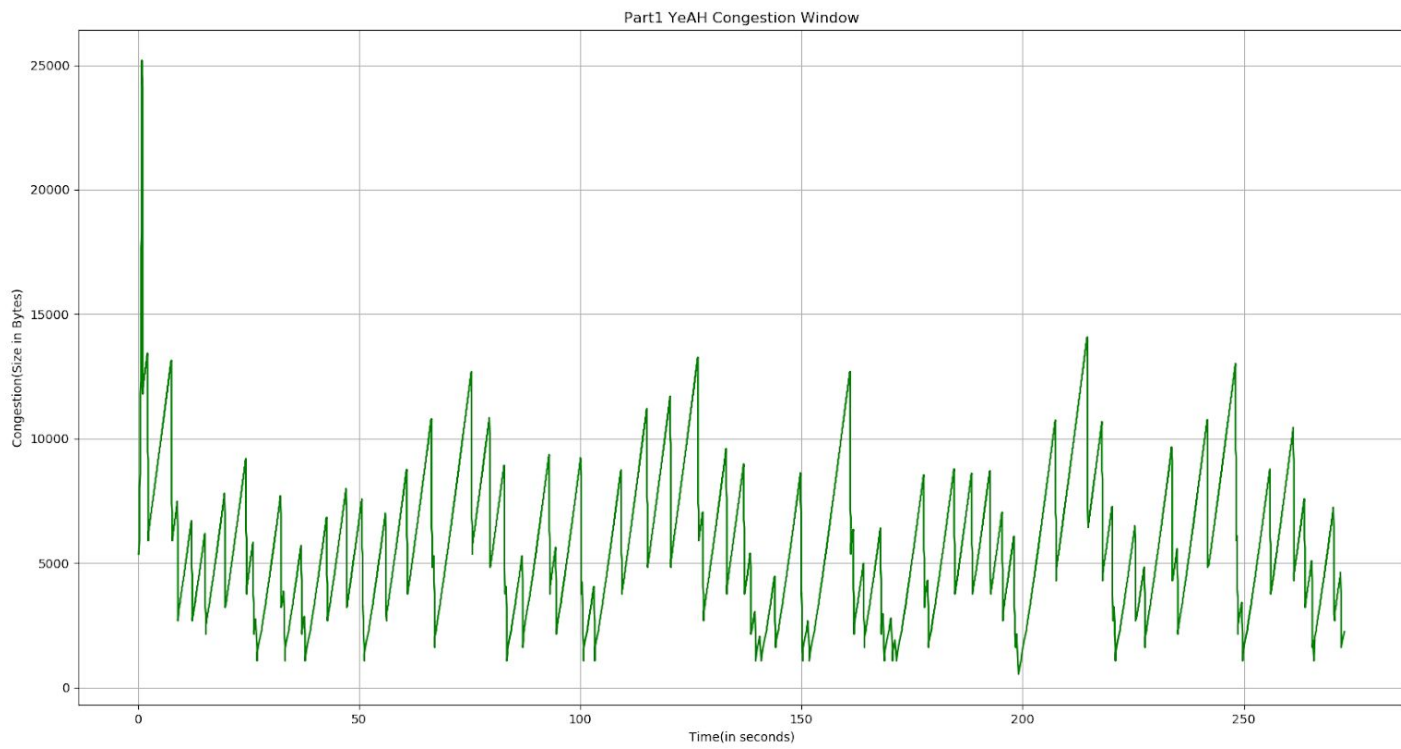
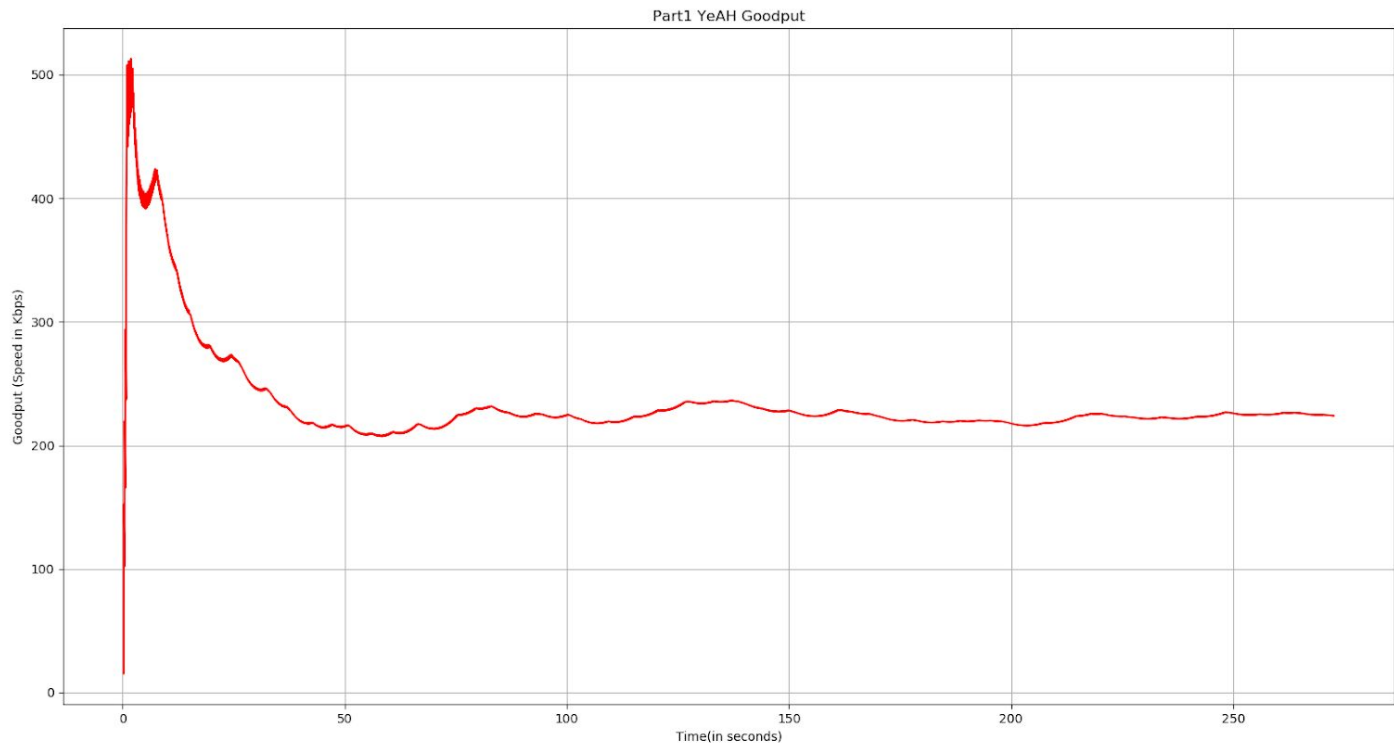
Packets Successfully Transferred = 999915

Total Packet Lost = 85

Packet Lost due to buffer overflow = 0

Packet Lost due to Congestion = 85





Part 2

TCP Hybla:

TCP Hybla flow = 171.20.2.1 to 171.20.6.1

Maximum throughput(in kbps) = 200.755038

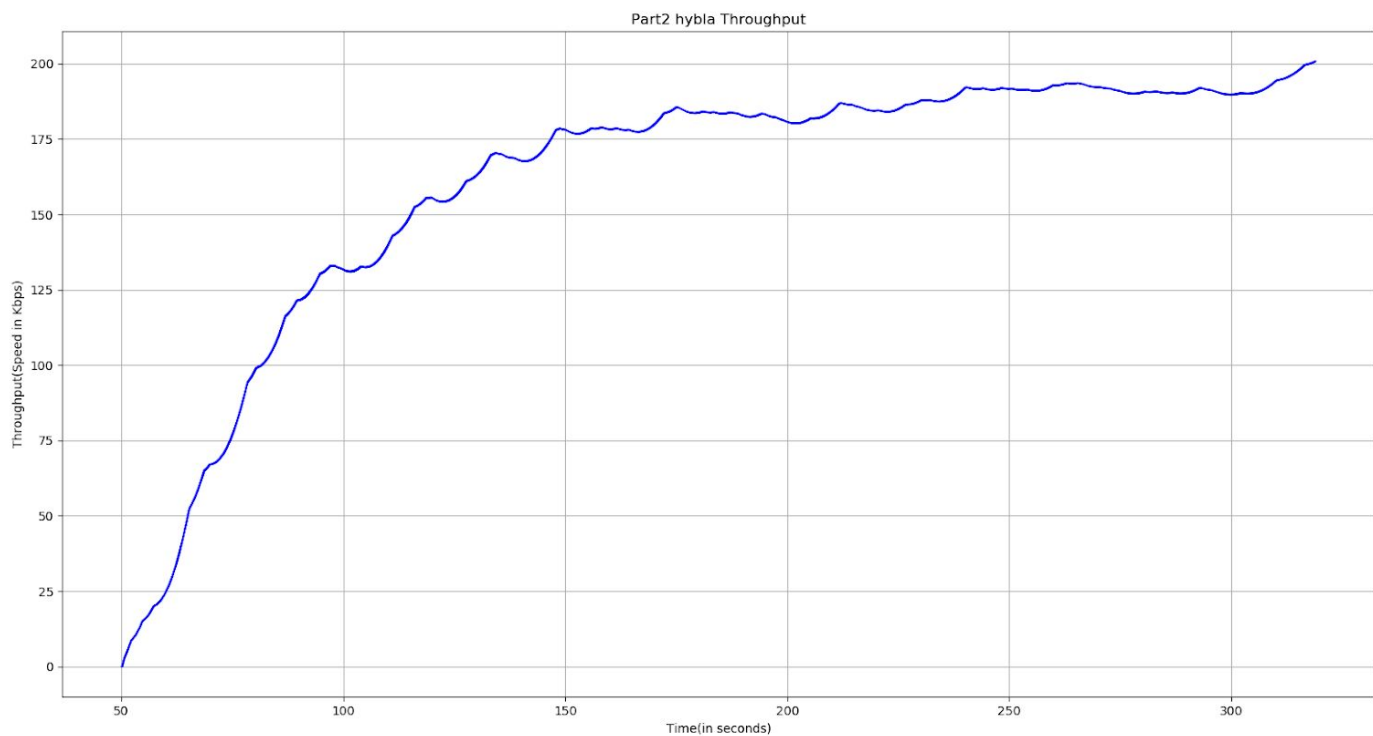
Total Packets transmitted = 1000000

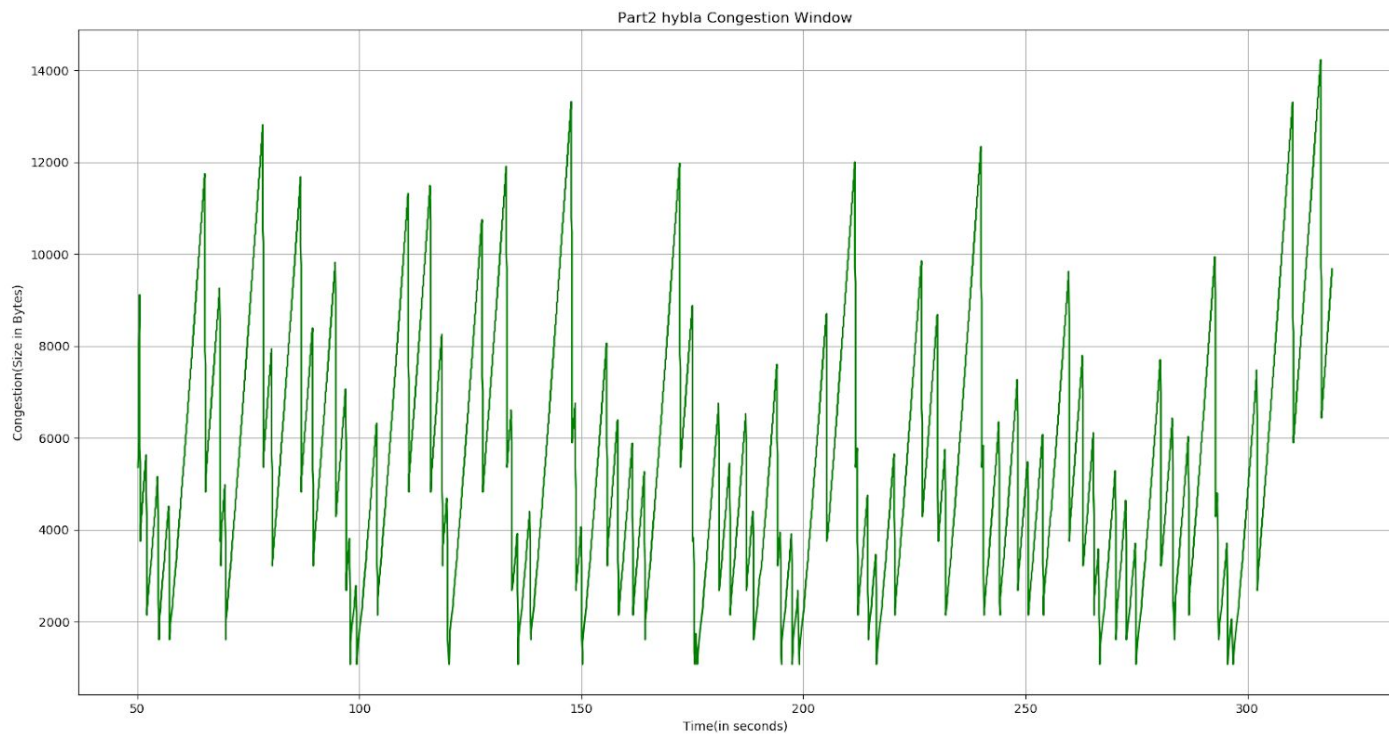
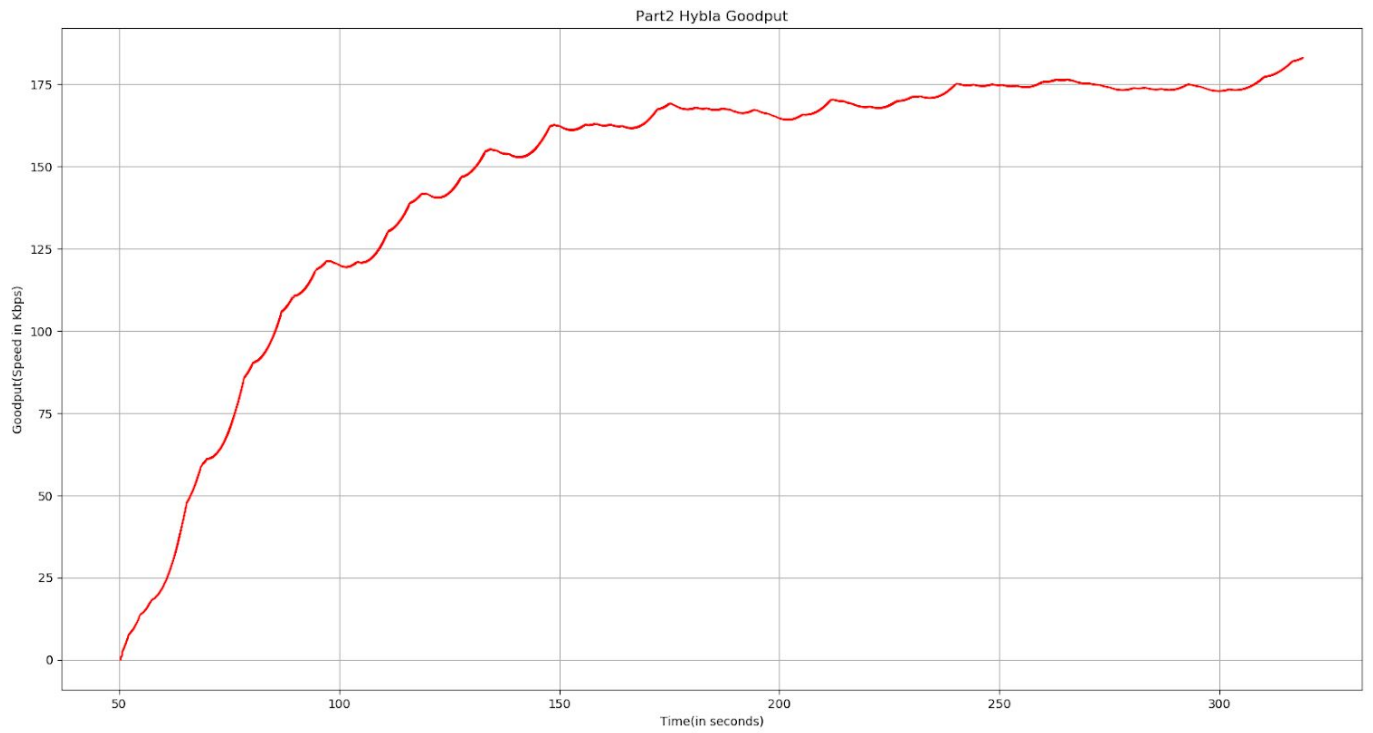
Packets Successfully Transferred = 999914

Total Packet Lost = 86

Packet Lost due to buffer overflow = 0

Packet Lost due to Congestion = 86





TCP Westwood:

TCP Hybla flow - 171.20.2.1 to 171.20.6.1

Maximum throughput(in kbps) = 222.029580

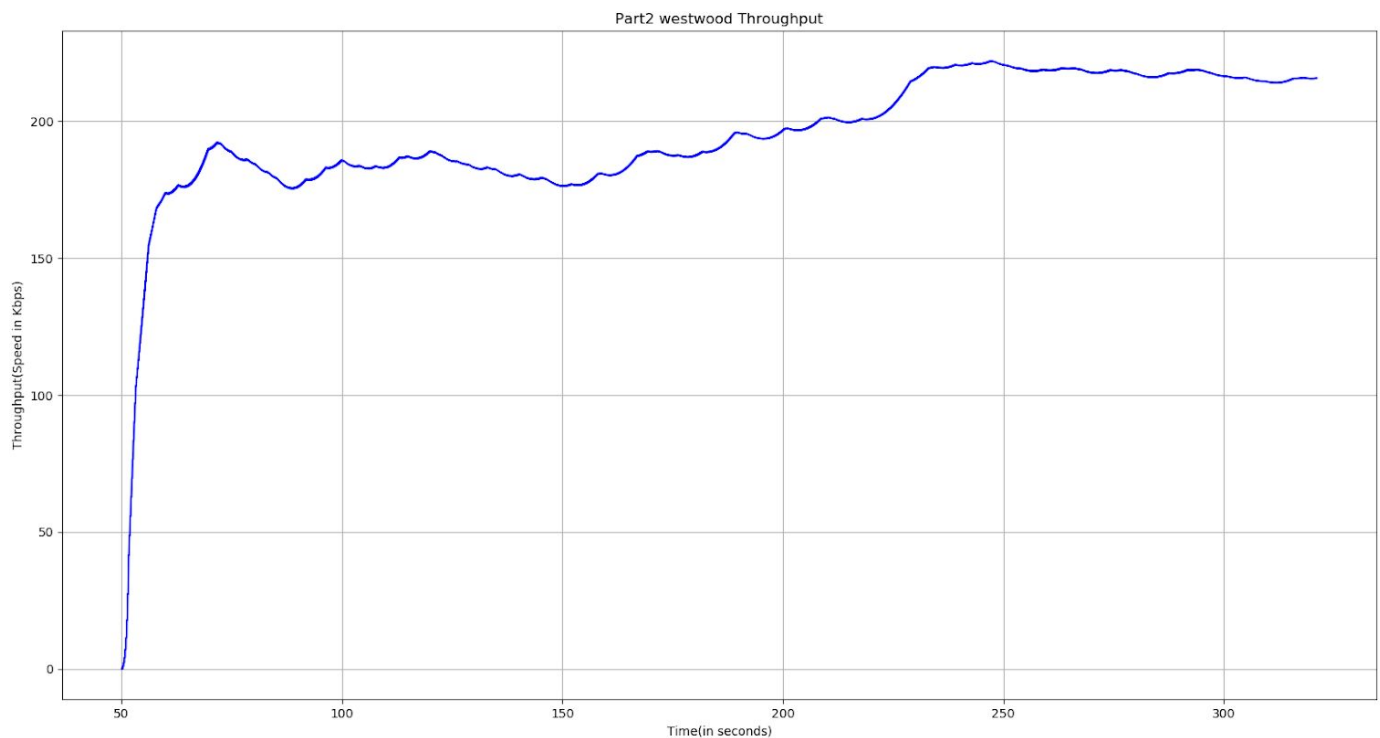
Total Packets transmitted = 1000000

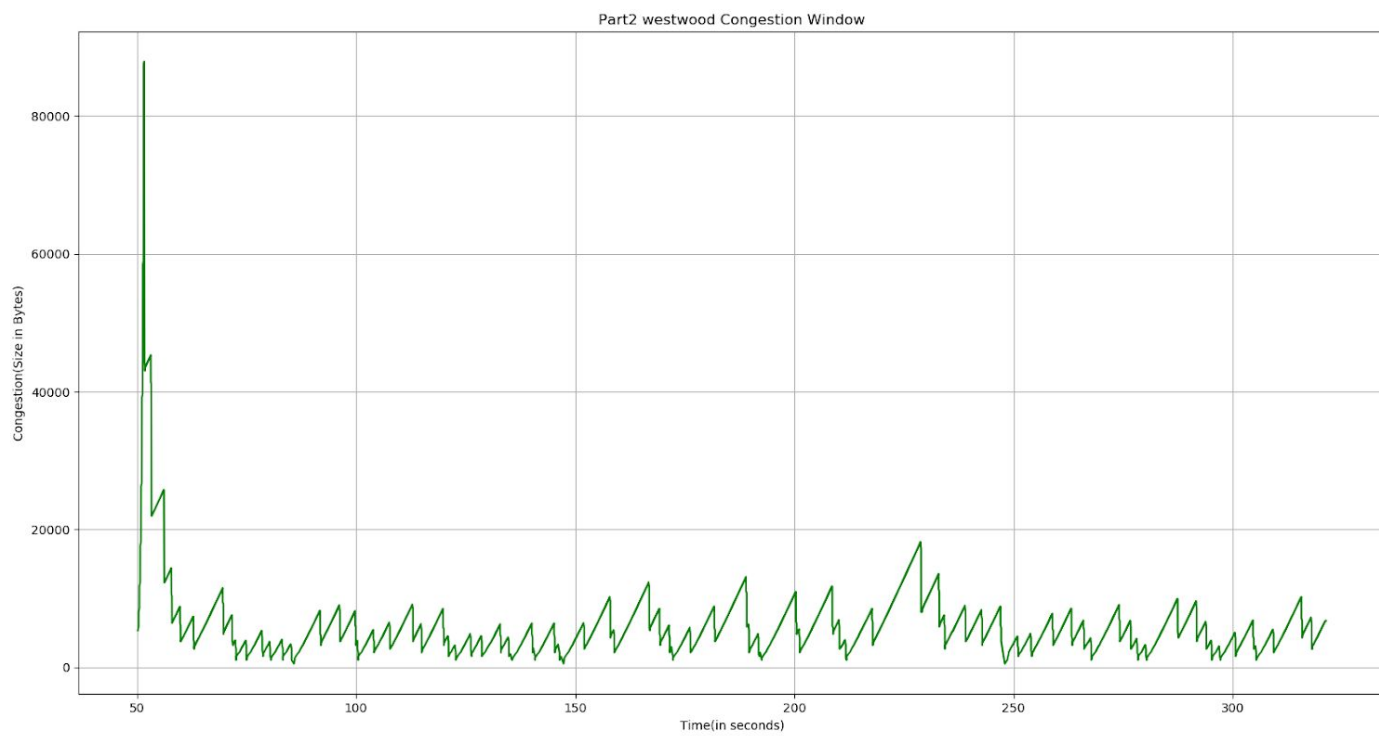
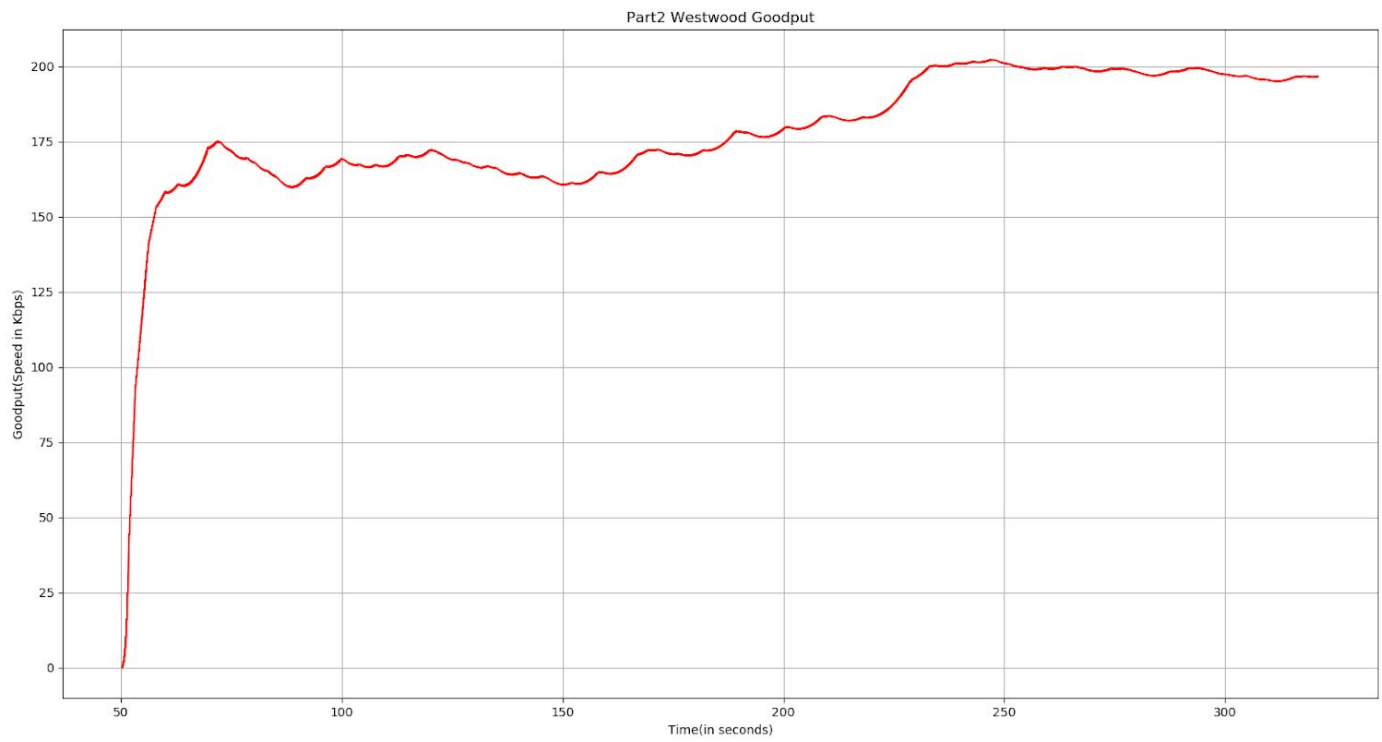
Packets Successfully Transferred = 999908

Total Packet Lost = 92

Packet Lost due to buffer overflow = 0

Packet Lost due to Congestion = 92





TCP Yeah:

TCP Yeah flow - 171.20.1.1 to 171.20.5.1

Maximum throughput(in kbps) = 564.776743

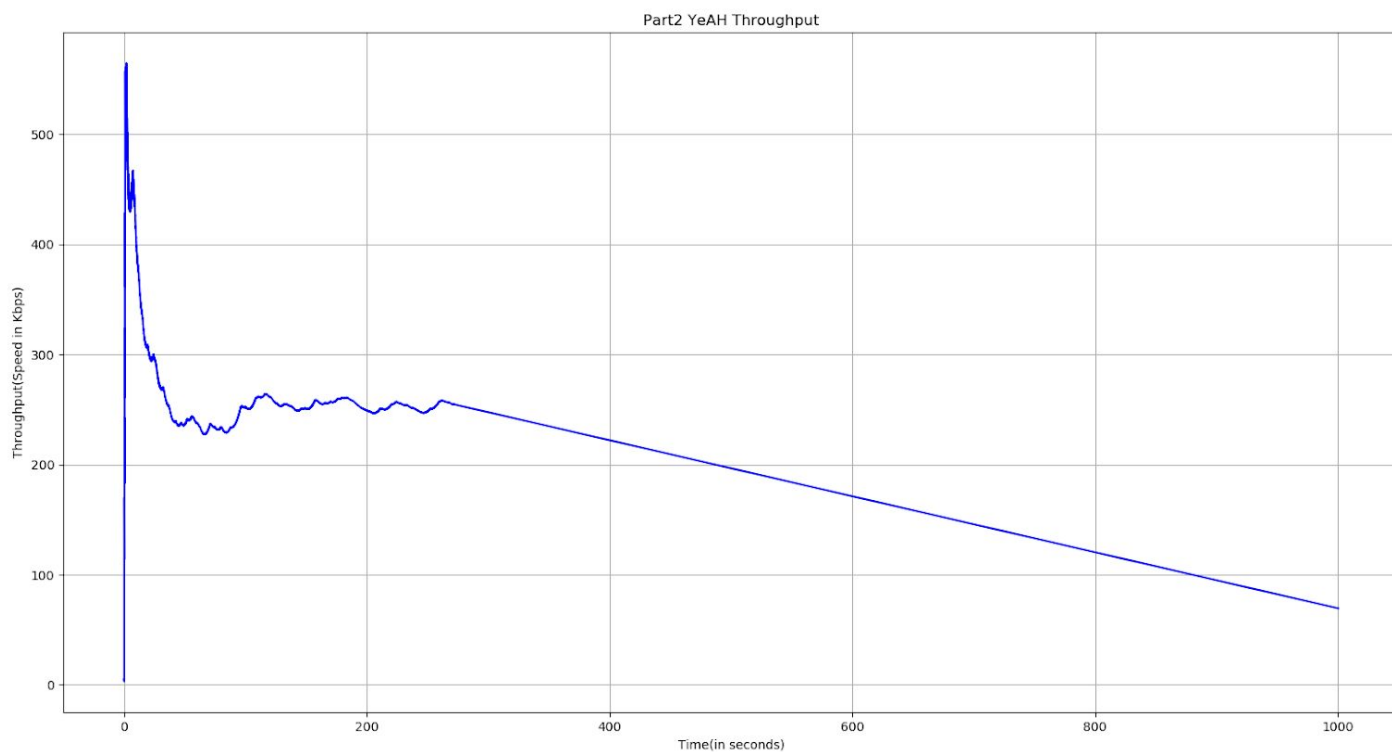
Total Packets transmitted = 1000000

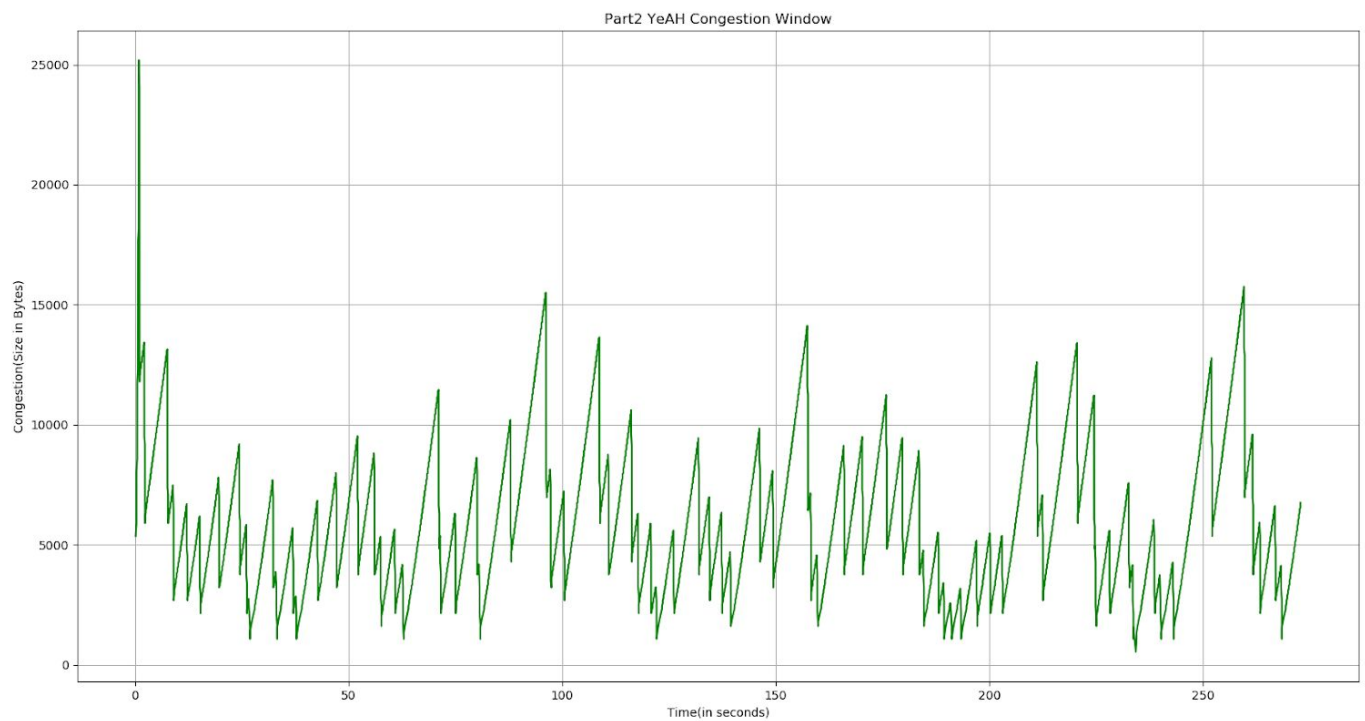
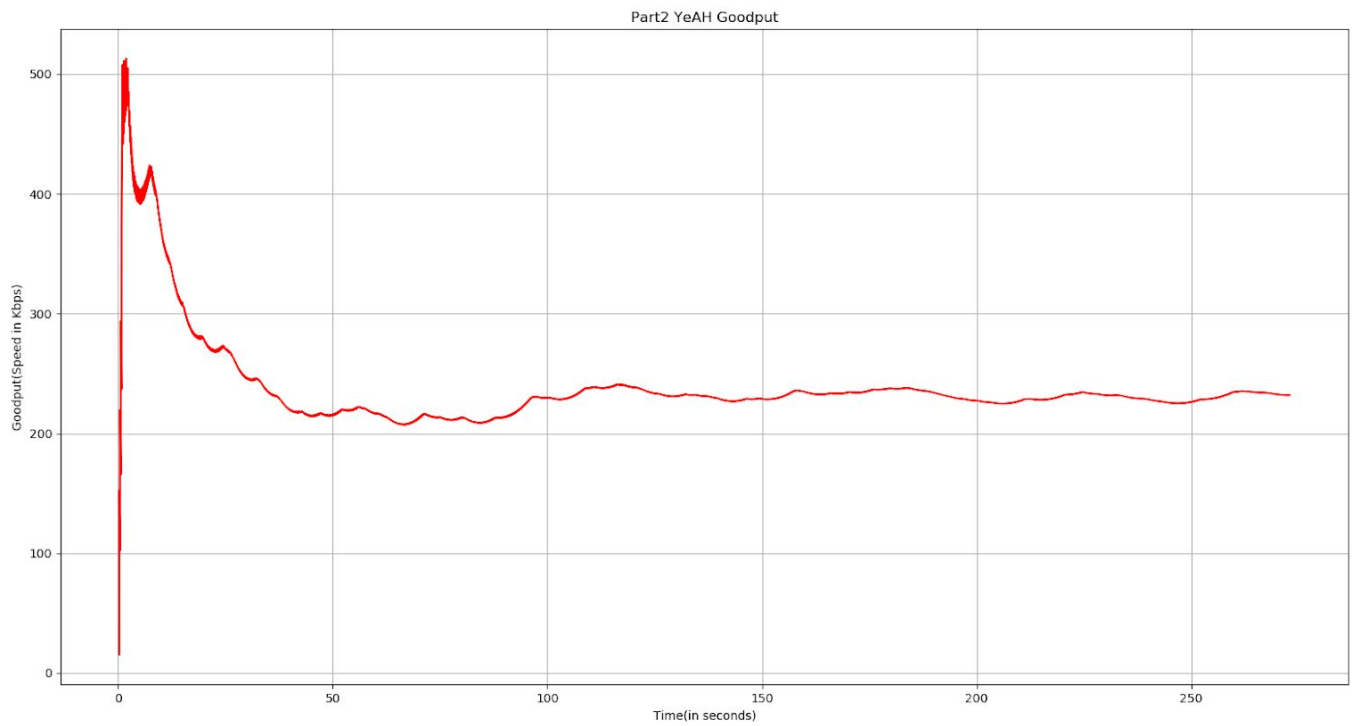
Packets Successfully Transferred = 999921

Total Packet Lost = 79

Packet Lost due to buffer overflow = 0

Packet Lost due to Congestion = 79





Note - All the observed data is in the zip file and all the graphs are plotted above using the data