

Networks Lab 9 | Dabin Lee

1. What is the normal time required to download the webpage on h1 from h2?

The normal time required to download the webpage on h1 from h2 is 1 second at the speed of 172KB/s.

2. What was your initial expectation for the congestion window size over time?

3. After starting iperf on h1, did you observe something interesting in the ping RTT?

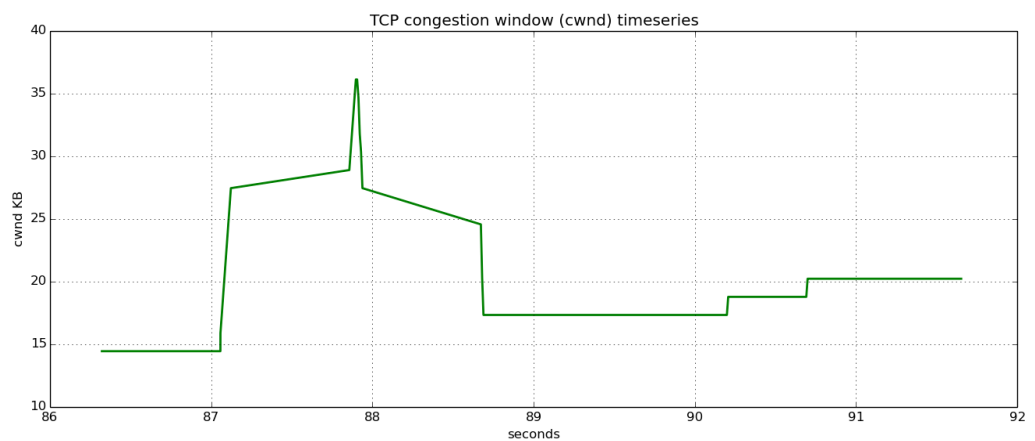
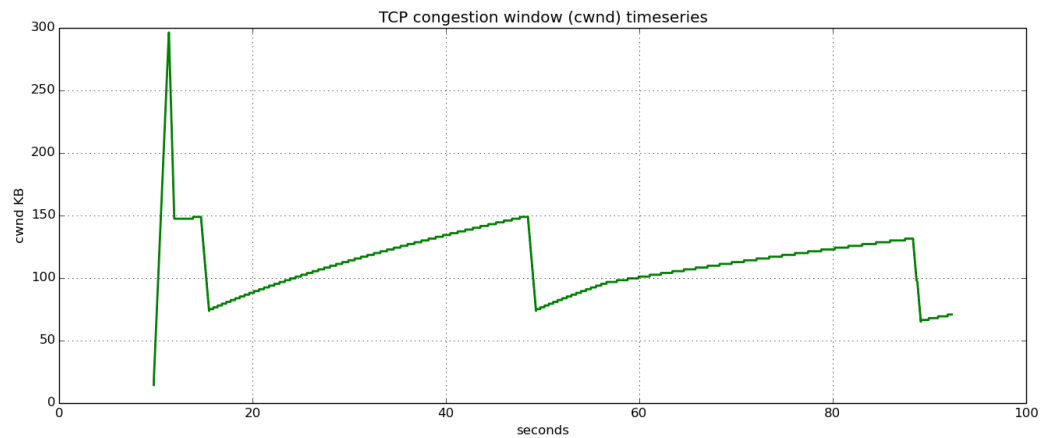
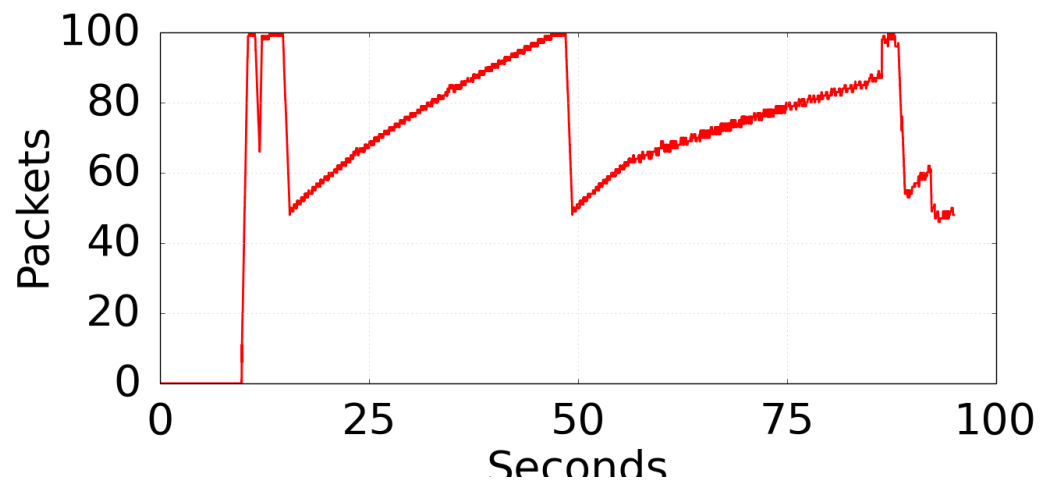
The average ping RTT without running iperf was 30ms. After running iperf on h1, the average ping RTT was 700ms. After running iperf on h1, the ping RTT increased.

4. After starting iperf on h1, why does the web page take so much longer to download?

With iperf running on h1, the traffic from iperf increases delay in the processing of the web page packets. Since the packets are processed in First-Come-First-Served basis, the packets before the wget traffic have to be processed first in order to process wget traffic and this is the main cause of the delay.

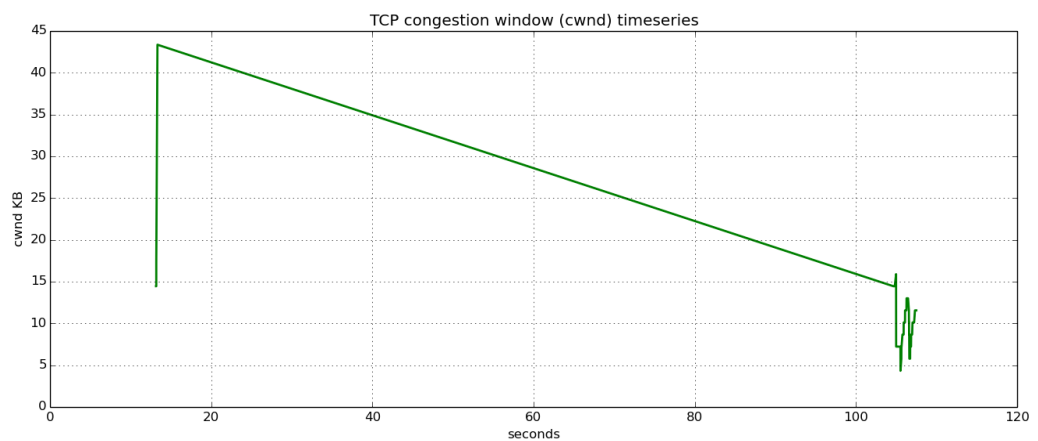
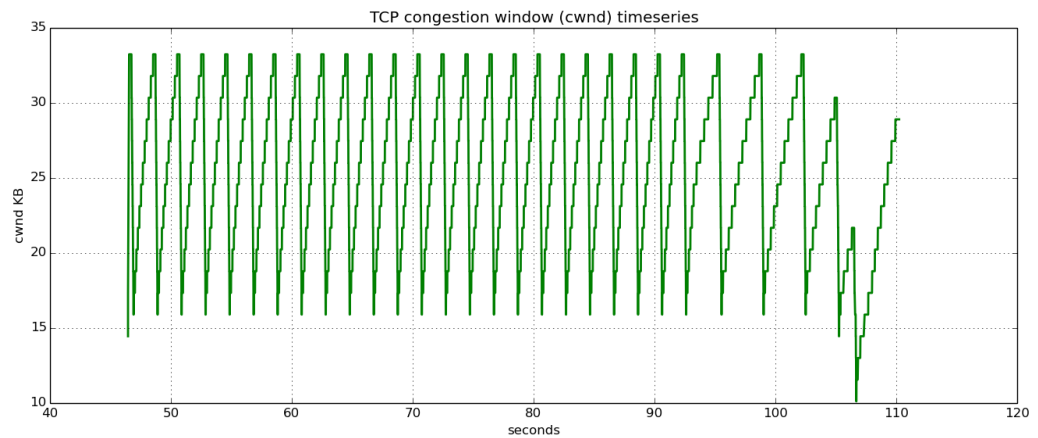
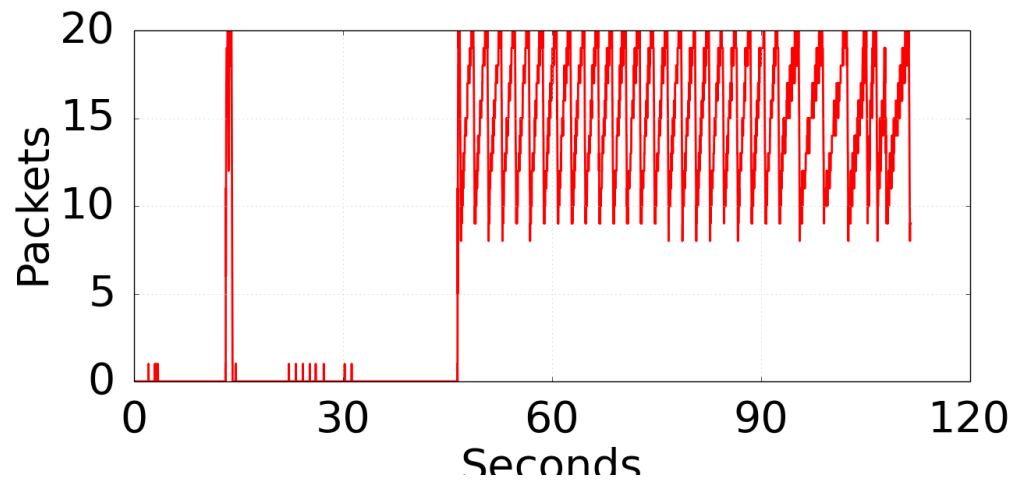
5. Please provide the figures for the first experiment (with qlen 100 and only one queue)

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6. Please provide the figures for the second experiment (with qlen 20 and only one queue)
 - a. Please comment on what you can see in the figures, and what is different (and why)

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7. Please provide the figures for the third experiment (with qlen 100 and two queues)
 - a. Please comment on what you can see in the figures, and what is different (and why)

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