

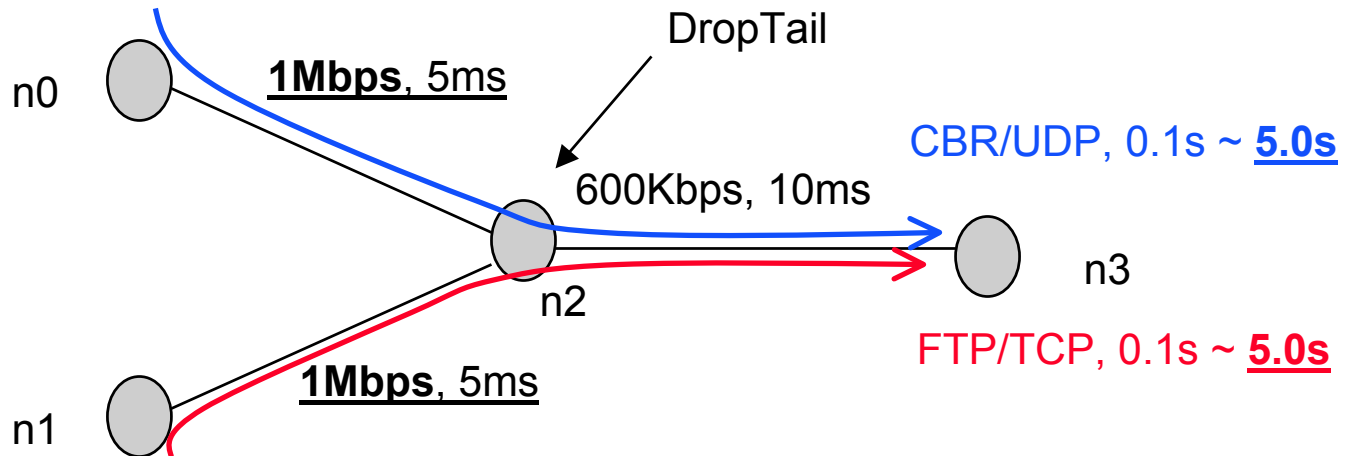
TCP Performance: what to measure?

- Average Performance
 - Throughput (goodput) measured at receiver → FTP;
 - Average end-to-end delay → TELNET.

- Dynamic Performance
 - Bottleneck utilization, queue length;
 - TCP source congestion window, sequence number
 - Throughput/Goodput;
 - Delays, delay jitter.

Assignment #3

- TCP Dynamics



- Sequence number vs. Time at n1;
- Throughput vs. Time at n1 (RateVersusTime in GraphTool);
- Queue length vs. Time at n2;
- Num of dropped packets at n2.

Submission

- Write ns2 script to measure TCP (it is a TCP Tahoe) performance.
- Submissions:
 - Ns2 simulation script;
 - All the required graphs and statistics.
- Due this coming Next Sunday Sept 22 11:55pm

Note

- If you want to work on your own machine, you need to install [ns-allinone-2.1b5\(or 7-old\)](#) and [graph tool](#).
- Example graph tool code:
 - On your machine's directory
~/ns/ns-allinone-2.1b7/graph_v6.0.4/examples/
 - Downloadable at <http://networks.ecse.rpi.edu/~harrisod>
which works with ns-2.1b5 (recommended) or ns-2.1b7-old