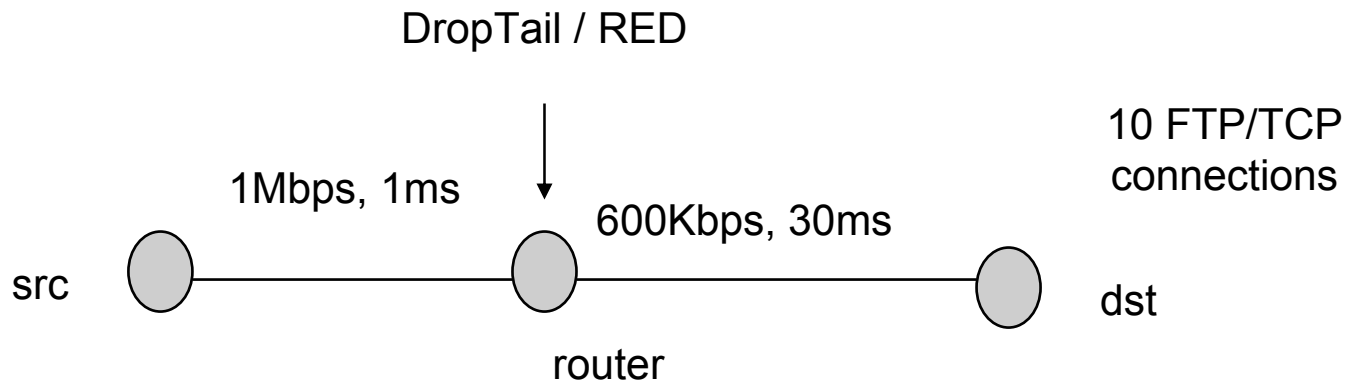


Experiment Design

- Use ExpDesigner to evaluate the influence of several parameters on TCP performance
 - TCP Reno vs. SACK
 - Buffer Size: 50 vs. 500 pkts
 - Segment Size: 100 vs. 1000 bytes
 - Router AQM: DropTail vs. RED
- Suggested performance metrics: goodput, queue length, bottleneck utilization

Assignment #5

- Suppose 10 flows share a single bottleneck
- Generate your own ns script based on the sample code



Code

- Download Tao's ExpDesigner from
 - <http://networks.ecse.rpi.edu/~xiay/lab5/ed.tar>
 - Get-effects.pl is updated (already included in ed.tar)!
- How to use?
 - Untar it into your local machine;
 - Start farmer/worker using "start_system.sh" for only once;
 - Complete the ns-2 simulation script file tcp.tcl;
 - Then "./run", you will get results for a performance matrices.

Submission

- Submissions:
 - Two exercises in last class;
 - Ns2 simulation script;
 - All statistics from exp_designer;
 - Analysis (most important part).
- Due Next Tue Oct 9 11:55pm