TFWC rate-based timer test
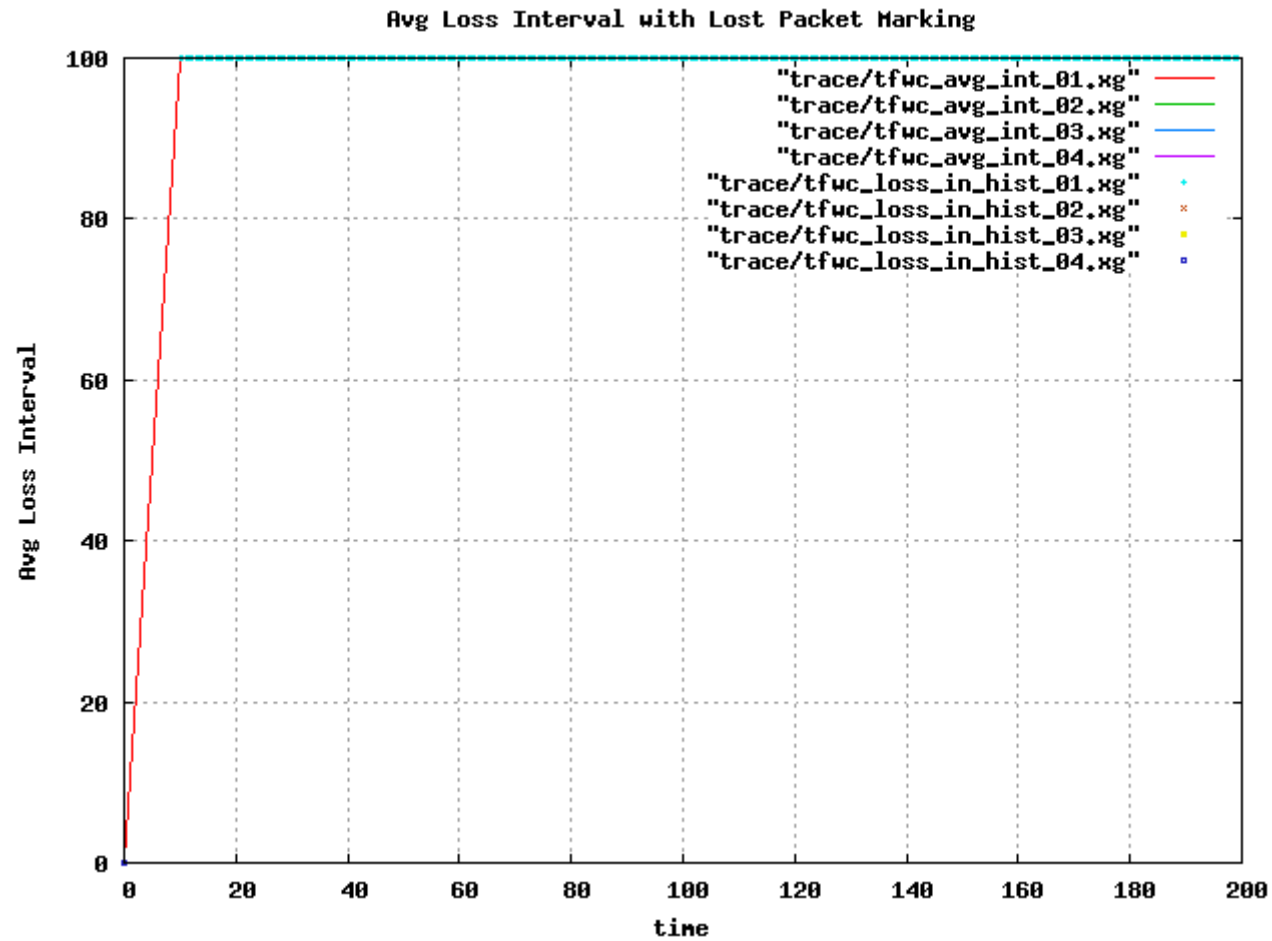
- Manipulate loss rate (periodic)

  – 1 packet out of 100

- Large bottleneck link speed and buffer size

  – 15Mbps with 50 packets (FIFO)
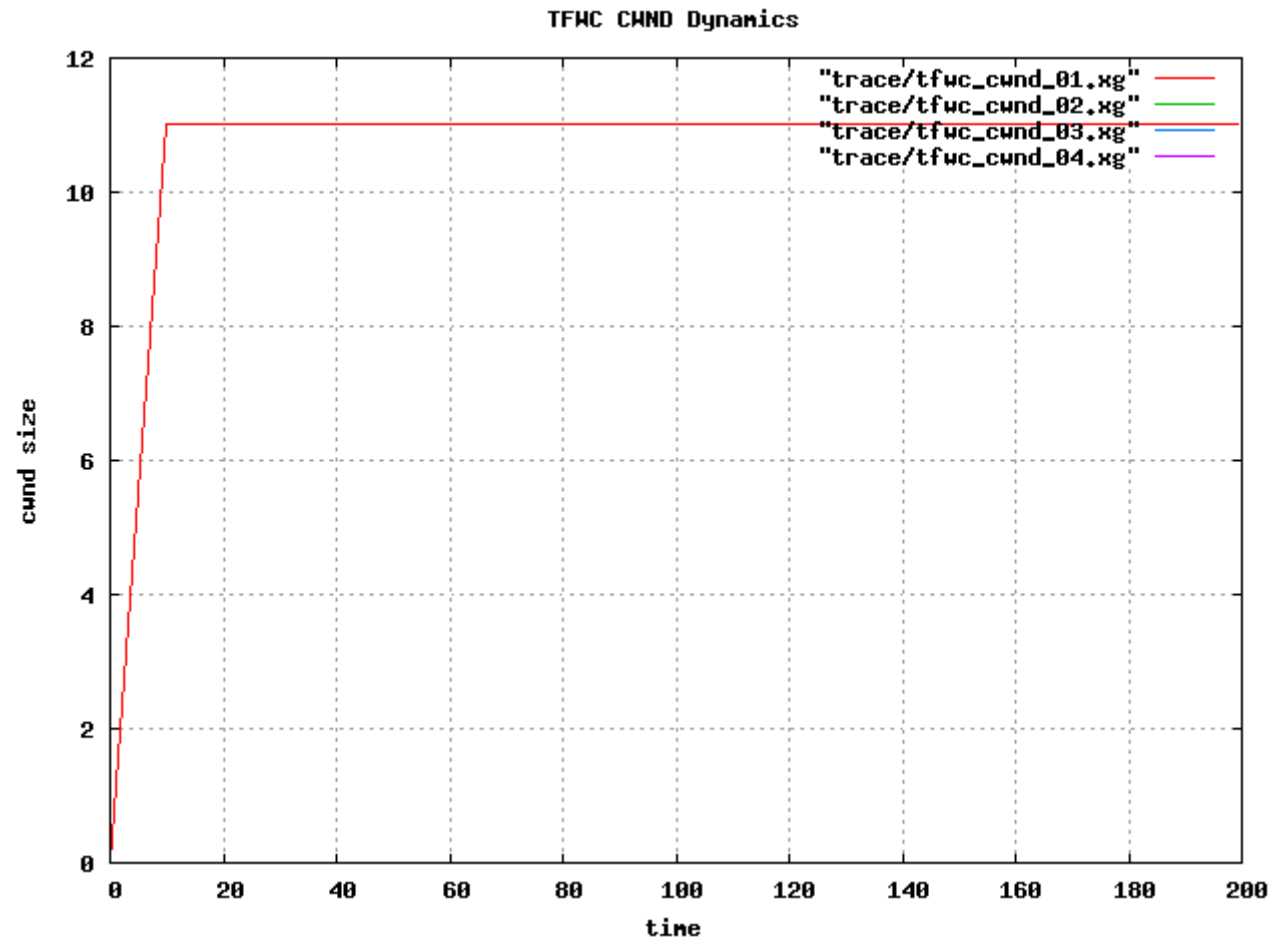

<u>Always send a packet based on the rate-based timer</u>

Hand Calculation

- loss interval = 100

- p = 1 / (loss interval) = 1/100 = 0.01

- window =~ 1/sqrt(p) =~ 10

  - f(p) = sqrt(2/3 * p) + 12 * P * (1 + 32p^2) * sqrt(3/8 * p) =~0.089
  - window = 1/f(p) =~ 11

ALI

Avg Loss Interval with Lost Packet Marking

CWND

TFWC CWND Dynamics

"trace/tfwc_cwnd_01.xg"
"trace/tfwc_cwnd_02.xg"
"trace/tfwc_cwnd_03.xg"
"trace/tfwc_cwnd_04.xg"

Throughput

Aggregated Throughput (TFWCs)