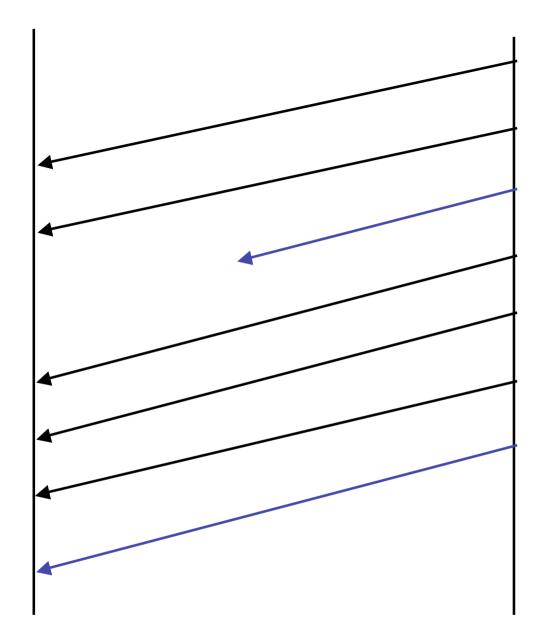
Assignment I

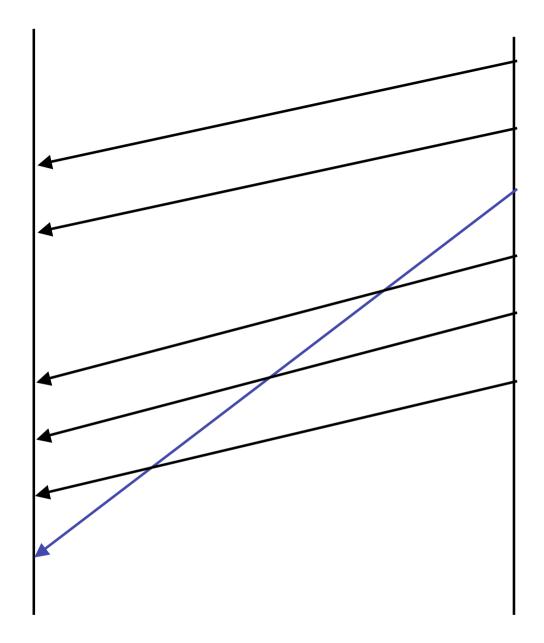
Collect Traces

- Compute Throughput/Loss
- **Compare Different Scenaric**

low to tell if a packet is los eceiver's TCP trace?



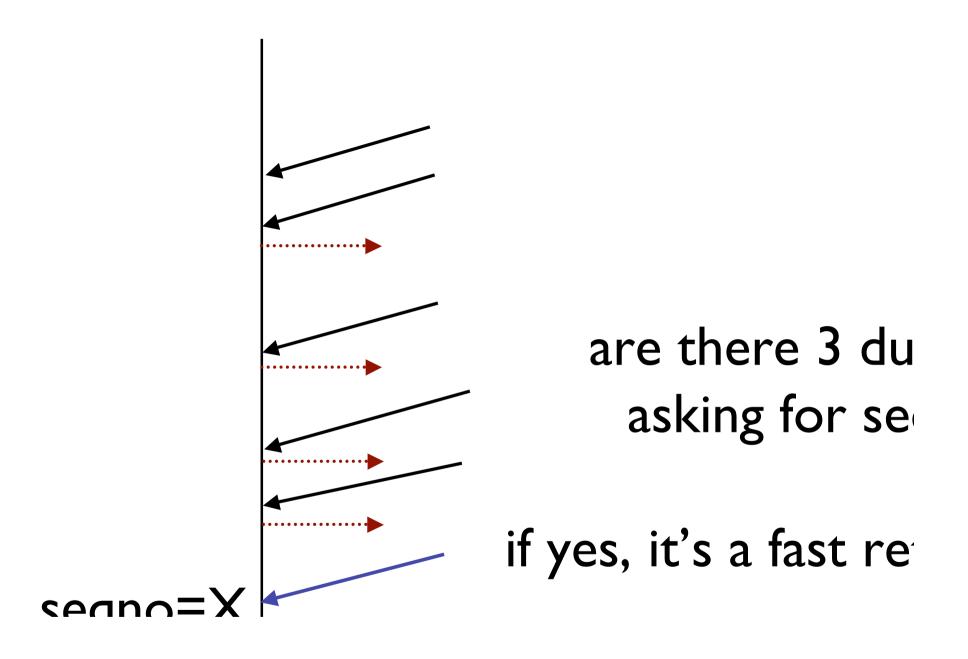
A lost packet + retransmission lead out-of-order pack (most of the time

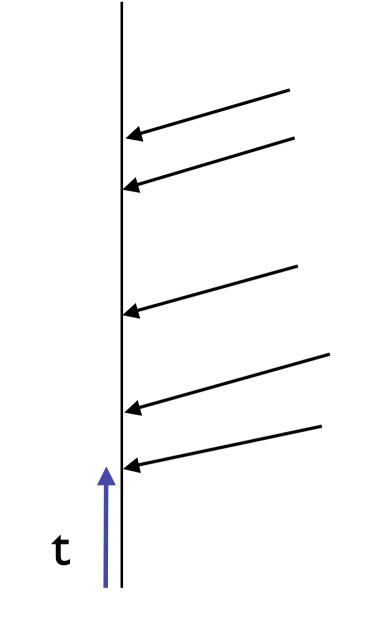


out-of-order pack does not imply loss+retransmissid

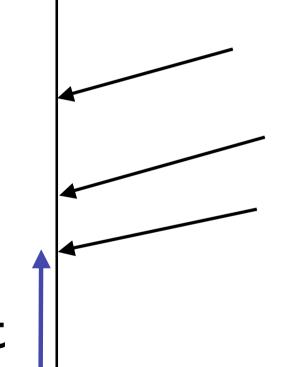
what trigger retransmission?

timeout or 3 dup A



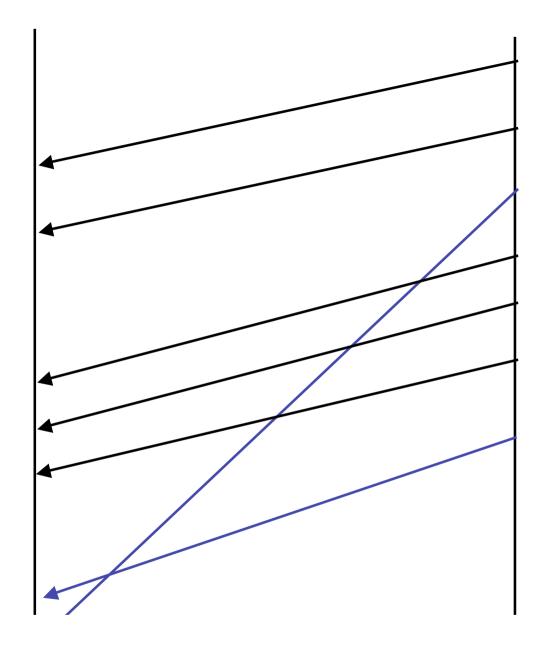


If not, is t large

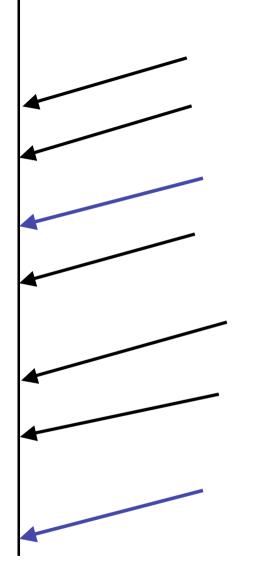


if t is large (>=3ms in V the packet is a retransm it's an out-of-order

A lost packet leads retransmission

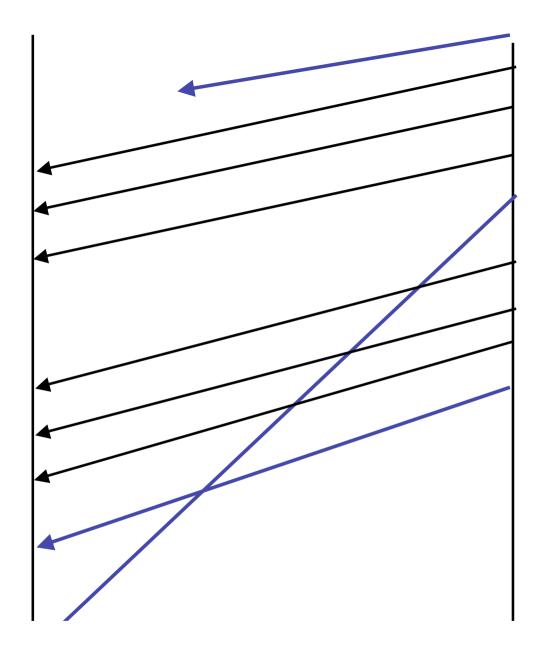


But retransmission (not imply packet k



did we receive and packet with same s

if yes, the packet is I



OK, we have to st somewhere..

Loss packets: retransmitted pack without duplicate

upper or lower bouing the actual loss rat

Some lost packets ar counted

Some counted packe ot lost (just out-of-c

Other Methods

Count number of ti windows is halve

Use TCP throughp Equation

Collect Traces

- Compute Throughput/Loss
- **Compare Different Scenaric**

The Expected Wired > Wireless Strong Signal > Weak Sig NUSOPEN > NUS Evening > Day (at work) Day > Evening (at home)

The Unexpected Wireless@SG is excelle (~DSL, 350kbps, no loss)

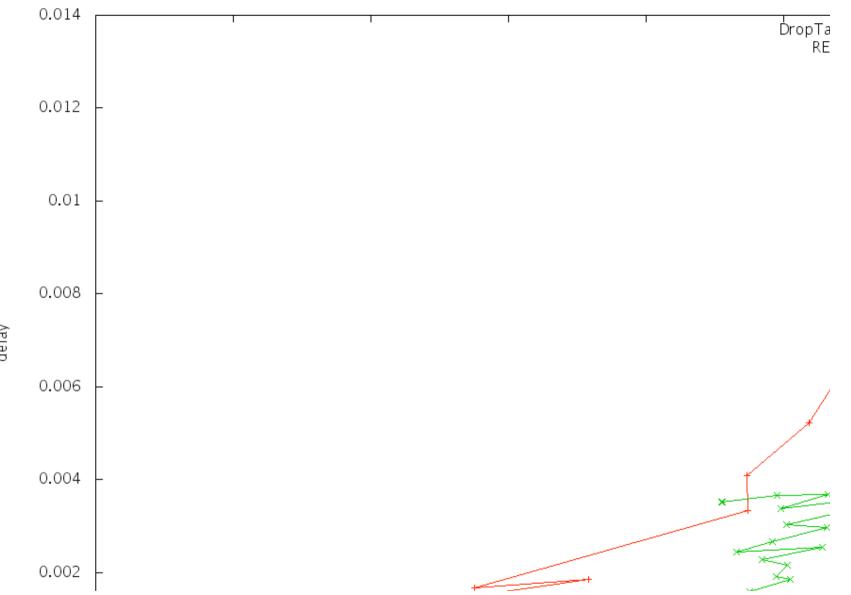
Boon Lay Hostel not too g (40 kbps, 10% loss)

I²R off-peak I 500kbps

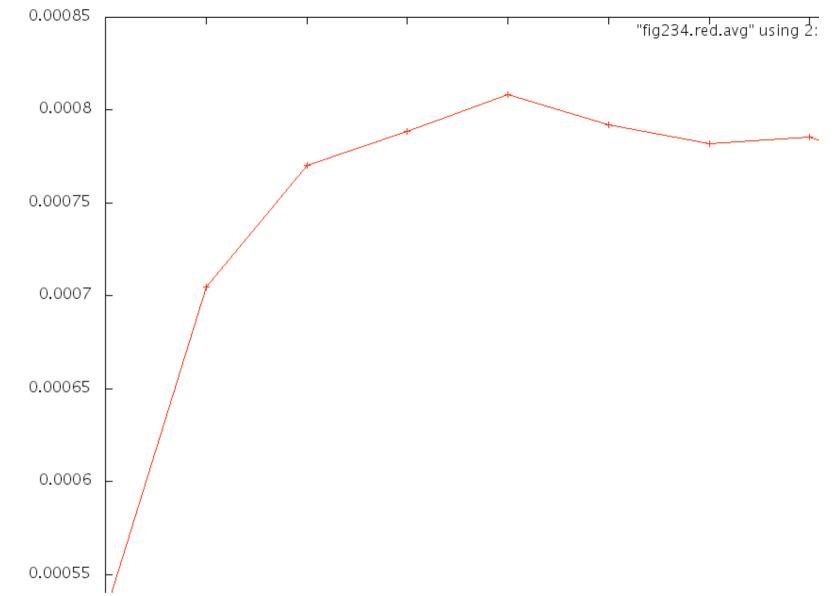
Interesting Finding NUS VPN uses small W_r RTT is as small as 2ms (bu Faster "slow start"? ate: ime: uration: ocation: pen Book: nswer Book: 07/12/2007 7:30 PM 2 h SR3A/B

Final Exam Remind Bring the paper of the pap

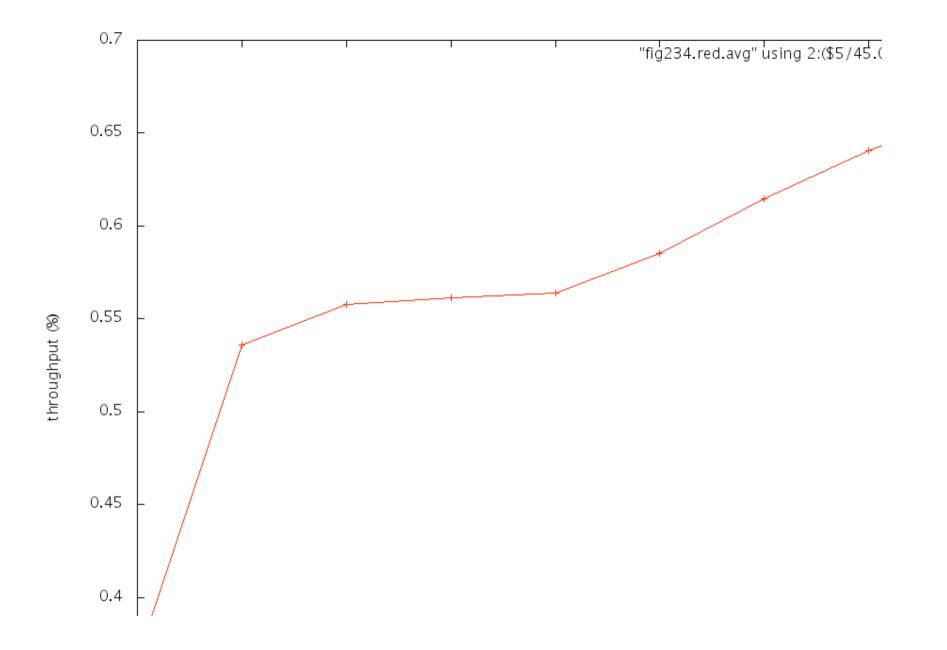
Assignment 2



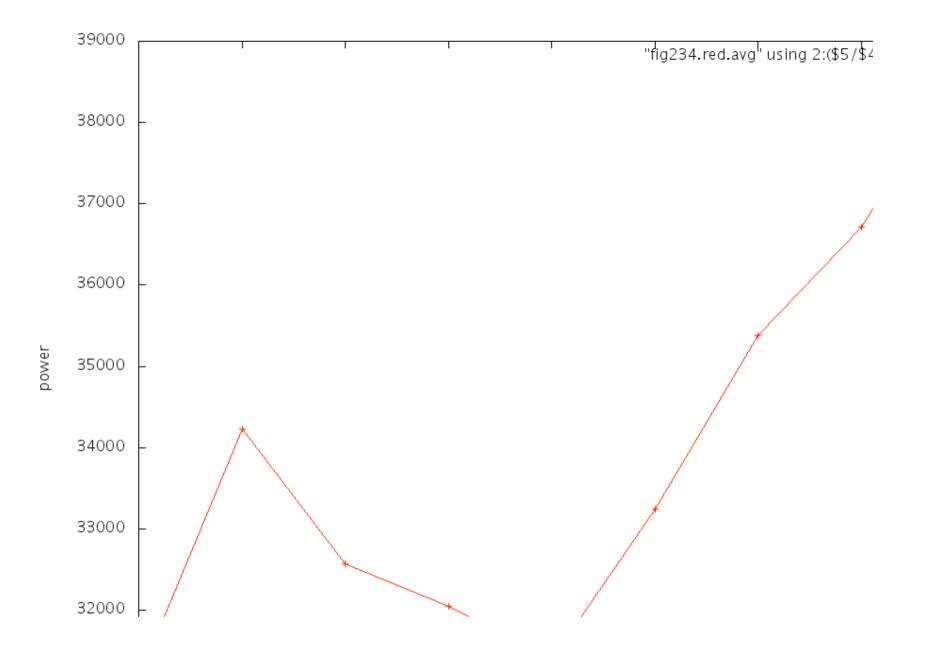
delay

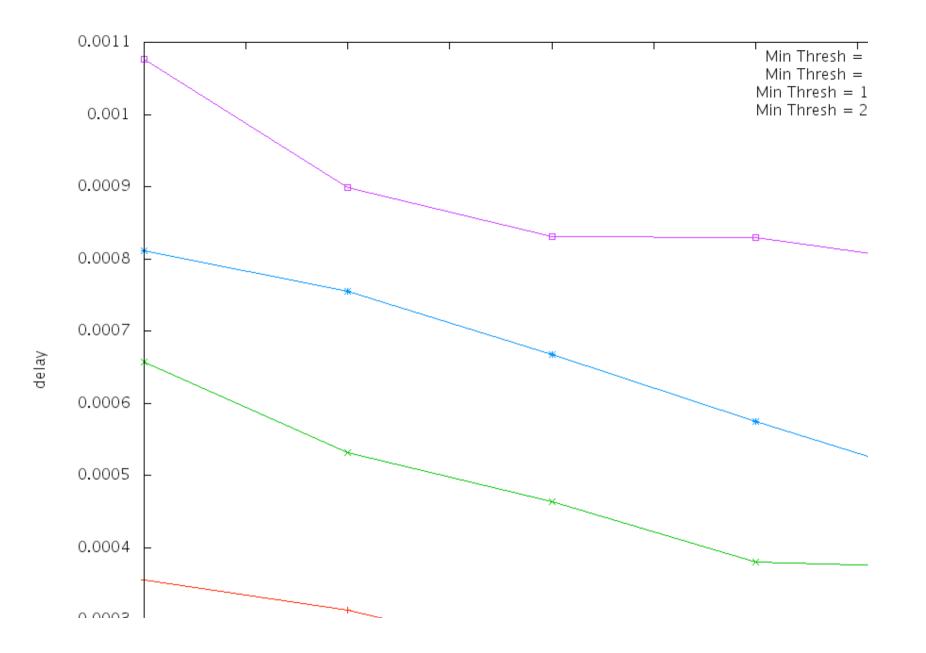


delay



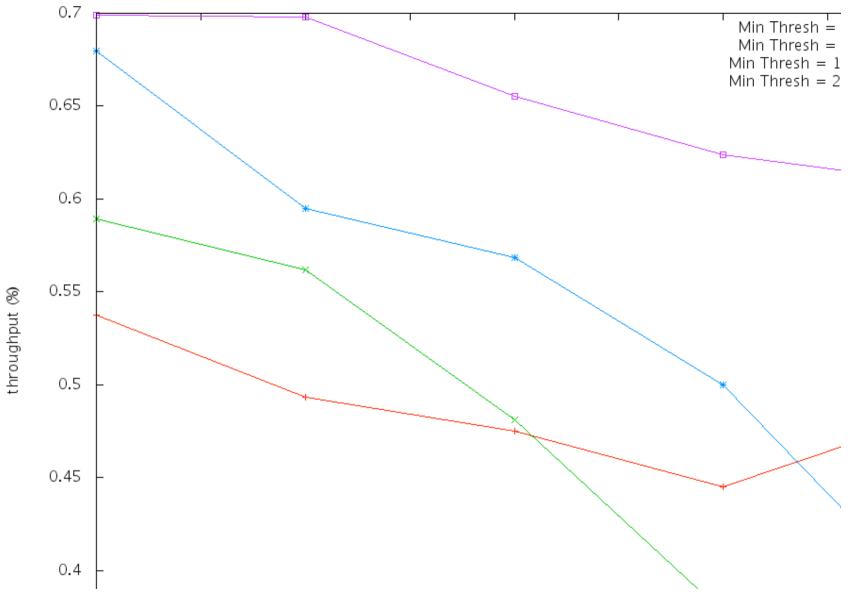
Max threshold increa drop probability redu queue length increas

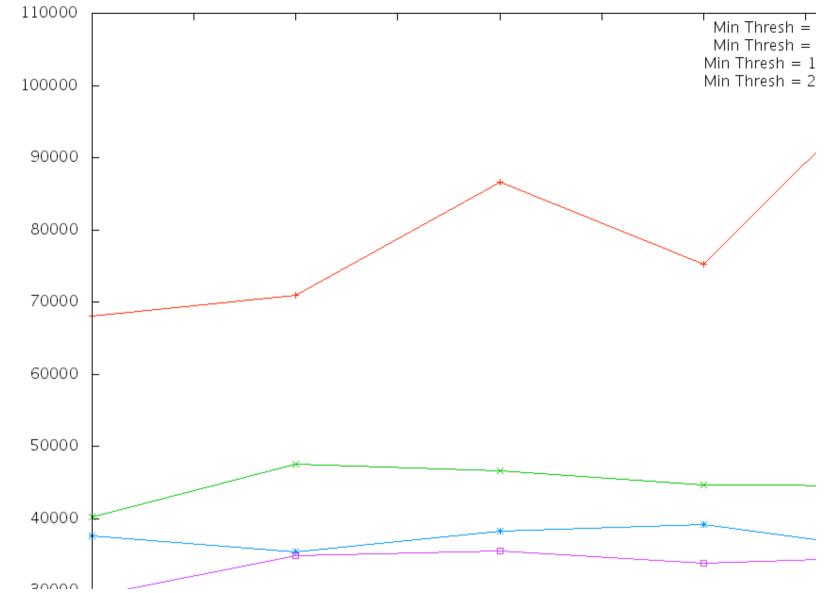




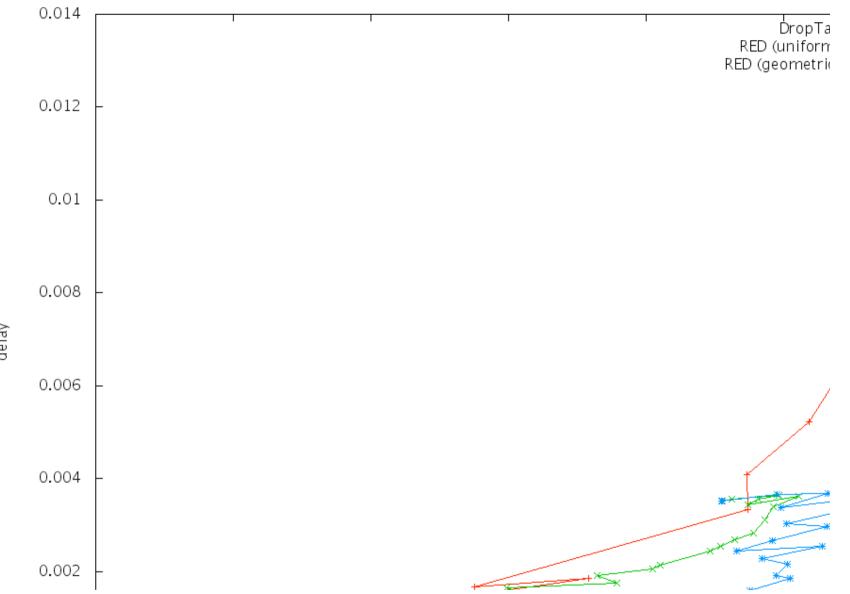
Min threshold increas queue length increas

Q weight increases avg Q length fluctuat drop more





power



delay

