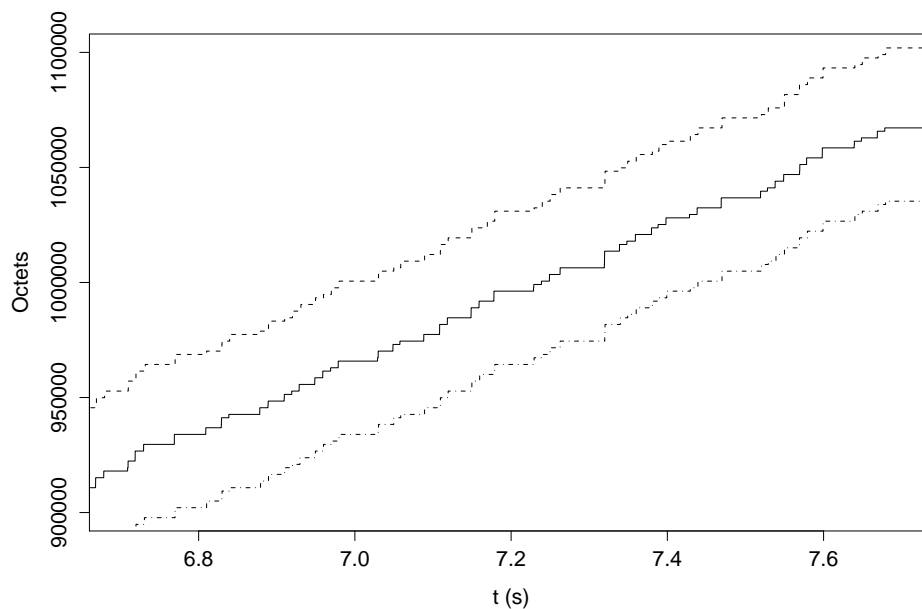# Computer Networks
TCP

1 TCP congestion window

Figure 1:

1. These 3 lines represent the ACK progress, the SEQ progess and SEQ+WIN progress of a TCP transfer. Which is which?

2. Draw the congestion window at time 7s, draw the RTT at the same instant.

3. What is the throughput?

2 Detailed TCP behavior

We consider the TCP sequence represented in figure 2.

1. Complete this sequence assuming that host B does not send any data

Figure 2:

2. Why does B send only one ACK at R1?

3. What would occur if ACK at R2 is lost?

4. What happens after R3 (ACKs are no more represented after this point)?

    (a) With fast retransmit
    (b) Without?