

## CPRE 489 Lab 9

### TCP Congestion Control

#### Summary

- Strings can be composed by  $s = \{ 'a', 'b', 'c' \}$ ;
- Short int is 2 bytes
- TCP Tahoe will return cwnd to 1 more often than TCP Reno making it slightly slower
- Timing the returning of ACKs cannot be done with only sleep. Each ACK needs it's own little stopwatch, so that the receiver can keep receiving packets.
- Sockets for C already have a receiver timeout parameter which can be set with a timeval struct. This can be used for the RTO of 3 seconds.
- Bitwise operations need to be masked properly.

#### Exercise

- 1) Run your program with each of the following BER values: 0.0001, 0.001, 0.005, 0.01, and plot the congestion window size vs. RTT curves for each BER value.

Drew 50%

Nina 50%