

# 15-441: Computer Networks

## Homework 2 Solution

Assigned: September 25, 2002.  
Due: October 7, 2002 in class.

In this homework you will test your understanding of the TCP concepts taught in class including flow control, congestion control, and reliability.

You must solve the homework individually. Make sure you provide all your answers in the space provided in the end. For full credit, show your work in clearly readable writing. Points will be deducted for unreadable answers. The following notation should be used for all the calculations.

Parameter	Description	Units
$MSS$	Maximum Segment Size	bytes/packet
$W$	Window Size	packets
$W * MSS$	Window Size	bytes
$RTT$	Round trip time	seconds
$X$ or $B$	Throughput	bits/sec
$\rho$	Utilization	dimensionless percentage
$L$	Loss rate	dimensionless proportion/probability

Table 1: Notation of parameters to be used throughout the assignment

## 1 TCP Basics

### 1. True or False?

- (a) Host A is sending a large file to host B over a TCP connection. Assume host B has no data to send to host A. Host B will not send acknowledgments to host A because host B cannot piggyback the acknowledgments on data.

**Answer:** FALSE. Piggybacking is an optimization that is used when both sides have to send data to each other so that the receiver, instead of sending two packets i.e., an ACK and a data packet, it just sends one. When the receiver (B) does not have any data to send, it will still send an ACK with the sequence number field containing the next sequence of data it is supposed to send.

- (b) The size of the TCP `RecvWindow` never changes throughout the duration of the connection.

**Answer:** FALSE. `RecvWindow` is used to give the sender an idea of how much free buffer space is available at the receiver. Thus as the amount of unacknowledged TCP data varies the `RecvWindow` also changes.

- (c) Suppose host A is sending a large file to host B over a TCP connection. The number of unacknowledged bytes that A sends cannot exceed the size of the advertised receiver buffer.

**Answer:** TRUE. TCP is not permitted to overflow the allocated receiver buffer. Hence when the sender can not send any more data `RecvWindow` would be 0 and hence all the buffer would have unacknowledged data.

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**Liyong Dong**



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