Bookmarks

- Pre-course Materials
- Topic 1: Course Overview
- Topic 2: The Link Layer
- Topic 3: The Network Layer
- Topic 4: Routing
- Topic 5: The Transport Layer
- **Topic 6: Reliable Transfer Protocols**





## 6.2 QUIZ QUESTION 1 (1/1 point)

Suppose that we have a connection using the stop and wait protocol. Assume that the round trip time is constant at 1 second and the retransmission time out is set to 1.1 seconds.

If there are no packet losses, what is the throughput of this connection? Give your answer to two decimal places (e.g. 2.45).

1.00 packets per second ✔ **Answer:** 1

1.00

**EXPLANATION**

RTT = 1 sec

Throughput = 1.00 (packets per second)

*You have used 1 of 3 submissions*

**6.1 Stop-and-Wait Protocol**
Week 3 Quiz due Feb 15, 2016 at 15:30 UTC

**6.2 Throughput of Stop-and-Wait**
Week 3 Quiz due Feb 15, 2016 at 15:30 UTC

**6.3 Sliding Window Protocol**
Week 3 Quiz due Feb 15, 2016 at 15:30 UTC

**6.4 Lab 3: Transport Layer**
Lab due Feb 15, 2016 at 15:30 UTC

MATLAB download and tutorials

## 6.2 QUIZ QUESTION 2 (1 point possible)

Suppose that we have a connection using the stop and wait protocol. Assume that the round trip time is constant at 1 second and the retransmission time out is set to 1.1 seconds.

If the round trip segment loss probability is 0.1, what is the throughput of this connection? Give your answer to two decimal places.

0.22 packets per second ✖ **Answer:** 0.89

$0.22$

**EXPLANATION**

RTT = 1 sec

RTO = 1.1 sec

L = 0.1

T = TRR + (L/(1-L)) * RTO = 1+(0.1/0.9)*1.1 = 1.12 sec

Throughput = 1/T = 0.89 (packets per second)

*You have used 3 of 3 submissions*