

Q. What is the total size of the minimum TCP MTU, including TCP and IP overhead but not including data link layer overhead?

A.

bytes

Show Answer 576

Q. Consider the effect of using slow start on a line with a 10-msec round-trip time and no congestion. The receive window is 24 KB and the maximum segment size is 2 KB. How long does it take before the first full window can be sent?

A.

msec

Show Answer

Q. Suppose that the TCP congestion window is set to 18 KB and a timeout occurs. How big will the window be if the next four transmission bursts are all successful? Assume that the maximum segment size is 1 KB.

A.

KB

Show Answer 9

Q. A TCP machine is sending full windows of 65,535 bytes over a 1-Gbps channel that has a 10-msec one-way delay. What is the maximum throughput achievable? What is the line efficiency? (give your answer as xx.x)

maximum throughput:

MB/s

line efficiency:

%

Show Answer 3.3

Show Answer 2.6

Q. In a network that has a maximum TPDU size of 128 bytes, a maximum TPDU lifetime of 30 sec, and an 8-bit sequence number, what is the maximum data rate per connection?

A.

kbps

Show Answer 8.704