CSA - 0735

Assignment

Unit - 4

Computer Networks.

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Given:

Devices = 200

Handshake size per device = 500 bytes

Network rate = 1 Mbps

1. What is total handshake data size?

Ans: Each device sends 500 bytes.

Total data = 200 devices × 500 bytes = 100000, bytes.

Convert to bits

100000 bytes × 8 = 800,000 bits.

Total handshake data = 800,000 bits.

2. If network rate = 1 Mbps, how long to complete handshake?

Network speed = 1 Mbps = 1,000,000 bits/sec.

Time = Total data / Network rate

= 800,1000 bits / 1000000 bits/sec = 0.8 seconds.

Total time = 0.8 seconds.

What is the time per device.?

Total time = 0.8 seconds

Devices = 200

Time per device = 0.8/200 = 0.004 seconds = 4 milliseconds.

Time per device = 4ms.