



What is the end-to-end packet delay in this store-and-forward subnet?

Assume:

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All links: 2.5 km; C = 100Mbps; propagation speed = 200m/microsec.
queueing delay = processing delay =0; packet size = 1000 bytes
Solution:
endtoend packet delay = 4 (equal hops) x link delay
link delay = PROC + QD + TRANS + PROP = 0 + 0 + transmission time +
           propagation delay
                  1000 bytes 8 \times 10^3 bits
transmission time = -----= 8 \times 10^{-5} = 80 microseconds.
                   100 Mbps
                                   10^8 \, \mathrm{bps}
                 2500 m
prop delay = ----- = 12.5 microseconds
              200 m/ microsec
link delay = 92.5 microseconds
End-to-end subnet delay = 4 \times 92.5 = 370 microseconds
```