



x=10 m (Outre between A and B B= 106 bitches c = 2×108 m/sec # of data packets = 10000 L1 = 100 bytes = 800 ldts (length of data in each packet sort by A) L2 = 25 byts = 200 bits (length of obtain each padet sont by B) Tracket = Li + L2 + 2x $= \frac{1000 \text{ bHs/sec}}{10^6 \text{ bHs/sec}} + \frac{2 \times 10^5 \text{ m}}{2 \times 10^8 \text{ m/sec}} = \frac{1000 \times 10^6 \text{ sec} + 10^3 \text{ sec}}{10^6 \text{ bHs/sec}} + \frac{2 \times 10^8 \text{ m/sec}}{2 \times 10^8 \text{ m/sec}} = \frac{1 \times 10^3 \text{ sec} + 1 \times 10^3 \text{ sec}}{10^6 \text{ bHs/sec}} = \frac{2 \times 10^3 \text{ sec}}{10^6 \text{ bHs/sec}} = \frac$ Tabl time to transpor 10000 peolods via Stop-and-Ubit = n. Tpocket = 10000 × 2 msec = 20000 msec = 20 sec b) for 100% utilization, minimum undousine for each should be 1st may Whin = Tooker = \[\frac{2 \text{msec}}{800\times 10^3 \text{msec}} = 3 $W_{min} = 1 + 2 \times T_{p} = 1 + \frac{2 \times 0.5 \times 10^{-3} \text{ sec}}{0.8 \times 10^{-3} \text{ sec}} = 2.25 = 3$ Traconission day= Tt = 800 bits = 0.8 x 10 sec Propagation deby= Tp = 10 m = 0.5 x 10 sec