CIS2460A2

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1.

a) S3 should begin sending at t = 1 mus

b) S1 should begin sending at t = 5.3 mus

c) S3 should finish delivering the first 72 bytes of F1 at 52.2 mus

d) S1 should finish delivering the first 72 bytes of F2 at 56.5 mus

e) S3 will detect a collision and prepare to back off at 15.5 mus

f) S1 will detect a collision and prepare to back off at 11.2 mus

2. The average interarrival time is ~465.5 mus.

3.

a) 24 frames can be sent in 100 slot times

b) Frames in the range {72, 73, …, 1526} will have an average size of ~800 bytes, and at 36 bytes per slot time, about 4 frames can be expected to make it through.

c) No, as an interarrival time of 0 will rarely happen. A random interarrival time will almost always be >0, slowing down the throughput of the sender.