Computer and Ethernet Studies

Tutor

Institution of Affiliation

Date

Length of mini slot = time needed to transmit 512 bits

Also all the packets have 10000 bits each

Jam has 32 bits

Important to also note that propagation of delay from every Ethernet hub is 0.20.2 milliseconds

1. Detection of collision time

Collision time = Ge-ag/ (Ge-ag + Bg(1-e-ag)

= after 37 seconds

b) Retransmission time of computer 1

= SRTT (A \* SRTT)/ (1-A)

For computer 1 = after 3 minutes

c) Retransmission time of computer 2

= SRTT (A \* SRTT)/ (1-A)

For computer 1 = after 7.5 minutes

d) No they won’t collide given that the collision factor is not available i.e. is totally eliminated.