Phase 2

station 0 station 1 station 2 |-----> Network

each station can send at regular intervals but cannot send simultaneously since collision will occur.

On collision each station will wait a certain amount of time before retransmitting. The time is random. <--- three different algorithms can be used to determine the time

Project parameters

lamdba = arrival rate
N = number of stations

backoff algorithm parameters

Linear

on nth retry k=min(n,1024) 0 < x <= R+1 x is a random int rand() [0, RANDOM] use modulus

Exponential

k = min(n, 10) $0 < x < = 2 ^k + 1$

Random

0 < x < = 5

overall throughput

G EL

Events

Arrival --> time, station number Slot --> time, slot number ts>1 |--> slotevent 1,2,3...

init

- 1. generate arrival for a station
- 2. Generate slot event