

Assignment 3: Implement p-persistent CSMA and CSMA/CD.

Submission due: 18th -22nd February 2019

In this assignment, you have to implement p-persistent CSMA with exponential backoff and additive backoff. Measure the performance parameters like throughput (i.e., average amount of data bits successfully transmitted per unit time) and forwarding delay (i.e., average end-to-end delay, including the queuing delay and the transmission delay) experienced by the CSMA frames (IEEE 802.3). Plot the comparison graphs for throughput and forwarding delay by varying p. State your observations on the impact of different data rates for exponential/additive backoff along with p-persistent CSMA.