

SSN College of Engineering, Kalavakkam
Department of Computer Science and Engineering
V Semester - CSE 'A'
UCS1511 NETWORKS LAB

Exercise 9: Simulation of congestion control algorithms

AIM: Write tcl script to simulate the different congestion control algorithms

Algorithm:

1. Write tcl script to simulate:
 - i. Create 3 nodes and the links between the nodes as
 - a. 0 → 1 10Mb 10 ms duplex link
 - b. 1 → 2 2Mb 10 ms duplex link
 - ii. Align the nodes properly
 - iii. Setup a TCP/Tahoe connection over 0 and 2 and its flow id, window size, packet
 - iv. Show the simulation in network animator and in trace file.
2. Write tcl script to simulate:
 - i. Create 3 nodes and the links between the nodes as
 - a. 0 → 1 10Mb 10 ms duplex link
 - b. 1 → 2 2Mb 10 ms duplex link
 - ii. Align the nodes properly
 - iii. Setup a TCP/Reno connection over 0 and 2 and mention the same flow id, window size, packet used for TCP/Tahoe
 - iv. Show the simulation in network animator and in trace file.

Analyze the two different congestion control algorithms.