Assignment - 10



Title: Traffic monitor for given topology = using NS2

Problem Statement: : 1 Use Network Simulator 2 to implement traffic monitoring for the given topology analysis of GSTIA and ethernet protocols network routing: shortest path routing.

ABDY: AODY ...

· analysis of congestion control:

· To learn and implement ethernet, CSMA

and routing protocols using MS2.

· To analyze congestion control in TeP

and UDP.

Outcomes.

i to be able to monitor traffice for the given topology, file transfers, etc.

i to be given able to find out shortest route for transferring files.

Requirements.



· Theory: an open! sources. event driver simulator designed specifically for research in icomputer avaganization
-H/W: + H/W: . It is discrete event simulator for substantial to bunch of protocols like TCP, FTP, UDP & HTTP. Steps for monitoring traffic in a givent topology: . Create simulator object . open name trace file . define finish procedure · close trace file execute name of trace file

execute create 4 nodes, link between

them.

erecte TCP sink agent & attach it to

the node

erecte CBR traffic sources at and attach to TCP schedule, event for CBR · research agents.
· call finish procedure
· run the simulation.

CSMA: To minimise chances to of collision and increase performance, CSMA was developed to increase performance. AODN: The AD-HOC an demand vector protocol is both on demand of a table driver protocol. The packet size in ADDY is uniform unlike DSR. Unlike DSDN, there is no need for system - wise broadcast due to local changes Congestion Control, Mez need 2 borsic protokols: - Drop Deletion: AISC reciever to unacknowledge script of packets. If a packet set sent is not acknowledge fast enough, the packet is assumed to be stopped. - Rate Control: If packet are not dropped je no congestion and hence increase the rate by certain amount. Congestion control is essentially required transmission for fare rate with high result utilization and is implemented in HIW layer.

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Conclusion: Thus MS2 is used to the given protocol statements which was successfully implemented. FOR EDUCATIONAL USE

Sundaram