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#Create a simulator object
 set ns [new Simulator]
 #Define different colors for data flows (for NAM)
 $ns color 1 Blue
 $ns color 2 Red
 #Open the NAM trace file
 set nf [open out.nam w]
 $ns namtrace-all $nf
 #Define a 'finish' procedure
 proc finish {} {
      global ns nf
      $ns flush-trace
      #Close the NAM trace file
     close $nf
     #Execute NAM on the trace file
      exec nam out.nam &
     exit 0
 #Create four nodes
 set n0 [$ns node]
set n1 [$ns node]
set n2 [$ns node]
set n3 [$ns node]
#Create links between the nodes
$ns duplex-link $n0 $n2 2Mb 10ms DropTail
$ns duplex-link $n1 $n2 2Mb 10ms DropTail
$ns duplex-link $n2 $n3 1.7Mb 20ms DropTail
#Set Queue Size of link (n2-n3) to 10
$ns queue-limit $n2 $n3 10
#Give node position (for NAM)
$ns duplex-link-op $n0 $n2 orient right-down
$ns duplex-link-op $n1 $n2 orient right-up
$ns duplex-link-op $n2 $n3 orient right
#Monitor the queue for link (n2-n3). (for NAM)
$ns duplex-link-op $n2 $n3 queuePos 0.5
#Setup a TCP connection
set tcp [new Agent/TCP]
$tcp set class_2
$ns attach-agent $n0 $tcp
set sink [new A gent/TCPSink]
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\$ns attach-agent \$n3 \$sink \$ns connect \$tcp \$sink \$tcp set fid_ 1

#Setup a FTP over TCP connection set ftp [new Application/FTP] \$ftp attach-agent \$tcp \$ftp set type_ FTP

#Setup a UDP connection set udp [new Agent/UDP] \$ns attach-agent \$n1 \$udp set null [new Agent/Null] \$ns attach-agent \$n3 \$null \$ns connect \$udp \$null \$udp set fid_ 2

#Setup a CBR over UDP connection set cbr [new Application/Traffic/CBR] \$cbr attach-agent \$udp \$cbr set type_ CBR \$cbr set packet_size_ 1000 \$cbr set rate_ 1mb \$cbr set random_ false

#Schedule events for the CBR and FTP agents \$ns at 0.1 "\$cbr start"

\$ns at 1.0 "\$ftp start"

Sins at 1.0 Step start

\$ns at 4.0 "\$ftp stop"

\$ns at 4.5 "\$cbr stop"

#Detach tcp and sink agents (not really necessary)
\$ns at 4.5 "\$ns detach-agent \$n0 \$tcp; \$ns detach-agent \$n3 \$sink"

#Call the finish procedure after 5 seconds of simulation time \$ns at 5.0 "finish"

#Print CBR packet size and interval
puts "CBR packet size = [\$cbr set packet_size_]"
puts "CBR interval = [\$cbr set interval_]"

#Run the simulation \$ns run