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#Create a simulator object
set ns [ new Simulator ]
#Open the nam trace file
set tf [ open lab1.tr w ]
$ns trace-all $tf
#Open the nam trace file
set nf [ open lab1.nam w ]
$ns namtrace-all $nf
#Define a 'finish' procedure
proc finish { } {
global ns nf tf
$ns flush-trace
exec nam lab1.nam &
close $tf
close $nf
exit 0
#Creating nodes
set n0 [$ns node]
set n1 [$ns node]
set n2 [$ns node]
set n3 [$ns node]
#Define different colors and labels for data flows
$ns color 1 "red"
$ns color 2 "blue"
$n0 label "Source/udp0"
$n1 label "Source/udp1"
$n2 label "Router"
$n3 label "Destination/Null"
#Create link between nodes
$ns duplex-link $n0 $n2 100Mb 300ms DropTail
$ns duplex-link $n1 $n2 100Mb 300ms DropTail
$ns duplex-link $n2 $n3 1Mb 300ms DropTail
#Set queue size of links
$ns set queue-limit $n0 $n2 50
$ns set queue-limit $n1 $n2 50
$ns set queue-limit $n2 $n3 5
#Setup a UDP connection
set udp0 [new Agent/UDP]
$ns attach-agent $n0 $udp0
\# Create a CBR traffic source and attach it to udp0
set cbr0 [new Application/Traffic/CBR]
$cbr0 set packetSize_ 500
$cbr0 set interval_ 0.005
$cbr0 attach-agent $udp0
#Create a UDP agent and attach it to node n1
set udp1 [new Agent/UDP]
$udp1 set class 2
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\$ns attach-agent \$n1 \$udp1

Create a CBR traffic source and attach it to udp1
set cbr1 [new Application/Traffic/CBR]
\$cbr1 set packetSize_ 500
\$cbr1 set interval_ 0.005
\$cbr1 attach-agent \$udp1

#Create a Null agent (a traffic sink) and attach it to node n3
set null0 [new Agent/Null]
\$ns attach-agent \$n3 \$null0

#Connect the traffic sources with the traffic sink
\$ns connect \$udp0 \$null0
\$ns connect \$udp1 \$null0

#Schedule events for the CBR agents
\$ns at 0.5 "\$cbr0 start"
\$ns at 1.0 "\$cbr1 start"
\$ns at 4.0 "\$cbr1 stop"
\$ns at 4.5 "\$cbr0 stop"

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

#Run the simulation
\$ns run