# Create a simulator object

set ns [new Simulator]

# Define different colors for data flows

$ns color 1 Blue

$ns color 2 Red

# Open the nam trace file

set nf [open out.nam w]

$ns namtrace-all $nf

# Create two nodes

set n0 [$ns node]

set n1 [$ns node]

# Create a duplex link between the nodes

$ns duplex-link $n0 $n1 1Mb 10ms DropTail

# Create a UDP agent and attach it to node n0

set udp0 [new Agent/UDP]

$ns attach-agent $n0 $udp0

# Create a Null agent (a sink) and attach it to node n1

set null1 [new Agent/Null]

$ns attach-agent $n1 $null1

# Connect the UDP agent to the Null agent

$ns connect $udp0 $null1

# Create a CBR traffic generator and attach it to the UDP agent

set cbr [new Application/Traffic/CBR]

$cbr set packetSize\_ 500

$cbr set interval\_ 0.005

$cbr attach-agent $udp0

# Schedule the traffic to start at time 0.5 seconds and stop at 4.5 seconds

$ns at 0.5 "$cbr start"

$ns at 4.5 "$cbr stop"

# Schedule the finish procedure to be called after 5 seconds

$ns at 5.0 "finish"

# Define a 'finish' procedure

proc finish {} {

global ns nf

$ns flush-trace

# Close the trace file

close $nf

# Execute nam on the trace file

exec nam out.nam &

exit 0

}

# Run the simulation

$ns run