#Create Simulator

set ns [new Simulator]

#Open Trace file and NAM file set ntrace [open prog1.tr w]

$ns trace-all $ntrace

set namfile [open prog1.nam w]

$ns namtrace-all $namfile #Finish Procedure

proc Finish {} {

global ns ntrace namfile

#Dump all the trace data and close the files

$ns flush-trace close $ntrace close $namfile

#/Execute the nam animation file exec nam prog1.nam &

exec echo "The number of packets dropped are:" & exec grep -c "^d" prog1.tr &

exit 0

}

#Create 3 nodes set n0 [$ns node] set n1 [$ns node] set n2 [$ns node]

#Create Links between nodes

#You need to modify the bandwidth to observe the variation in packet drop

$ns duplex-link $n0 $n1 0.2Mb 10ms DropTail

$ns duplex-link $n1 $n2 1Mb 10ms DropTail #Set Queue Size

#You can modify the queue length as well to observe the variation in packet drop

$ns queue-limit $n0 $n1 10

$ns queue-limit $n1 $n2 10

#Set up a Transport layer connection.

set udp [new Agent/UDP]

$ns attach-agent $n0 $udp set null [new Agent/Null]

$ns attach-agent $n2 $null

$ns connect $udp $null

set cbr0 [new Application/Traffic/CBR]

$cbr0 set type\_ CBR

$cbr0 set packetSize\_ 100

$cbr0 set rate\_ 1Mb

$cbr0 set random\_ false

$cbr0 attach-agent $udp

$ns at 0.0 "$cbr0 start"

$ns at 5.0 "Finish"

$ns run