Input:

```
#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 Agent/TCPSink] \$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" \$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

Output:

