```
set ns [new Simulator]

set traceFile [open out.tr w]

$ns trace-all $traceFile

set namFile [open out.nam w]

$ns namtrace-all $namFile

$ns at time "event"

$ns at 12.0 "exit 0"

proc finish {} {

global ns traceFile namFile

$ns flush-trace

close $traceFile

close $namFile

exec nam out.nam &

exit 0 }

$ns at 12.0 "finish"

$ns run

set n0 [$ns node]

for {set i 1} {$i < = $nodeNb} {incr i} {

set n($i) [$ns node] }

$ns simplex-link/duplex-link $n0 $n1

"bandwidth"Mb "delay"ms "queue_type"

$ns queue-limit $n0 $n1 20

set tcp [new Agent/TCP]

$ns attach-agent $n(0) $tcp

set sink [new Agent/TCPSink]

$ns attach-agent $n(1) $sink

$ns connect $tcp $sink

set udp [new Agent/UDP]

 $ns attach-agent $n(0) $udp

set null [new Agent/Null]

 $ns attach-agent $n(1) $null
```

```
$ns connect $udp $null

set ftp [new Application/FTP]

$ftp attach-agent $tcp

set cbr [new Application/Traffic/CBR]

$cbr attach-agent $udp

$ns at 10.0 "$cbr start"

$ns at 20.0 "$cbr stop"
```