set ns [new Simulator]

$ns color 1 Blue

$ns color 2 Red

set tf [open wired.tr w]

$ns trace-all $tf

set nf [open out.nam w]

$ns namtrace-all $nf

proc finish{ } {

global ns nf tf

$ns flush-trace

close $nf

close $tf

exec nam out.nam &

exit 0

}

set n0 [$ns node]

set n1 [$ns node]

set n2 [$ns node]

set n3 [$ns node]

$ns duplex-link $n0 $n2 2Mb 10ms DropTail

$ns duplex-link $n1 $n2 2Mb 10ms DropTail

$ns duplex-link $n2 $n3 2Mb 20ms DropTail

$ns queue-limit $n2 $n3 10

$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

$ns duplex-link-op $n2 $n3 queuePos 0.1

set tcp [new Agent/TCP]

set sink [new Agent/TCPSink]

$tcp set class\_ 2

$ns attach-agent $n0 $tcp

$ns attach-agent $n3 $sink

$ns connect $tcp $sink

$tcp set fid\_ 1

set ftp [new Application/FTP]

$ftp attach-agent $tcp

$ftp set type\_ FTP

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

set cbr [new Application/Traffic/CBR]

$cbr attach-agent $udp

$cbr set type\_ CBR

$cbr set packet\_Size\_ 1000

$cbr set interval\_ 0.005

$cbr set rate\_ 1Mb

$cbr set random\_ false

set udp [new Agent/UDP]

$udp set class\_ 1

$ns attach-agent $n0 $udp

$ns at 0.1 "$cbr start"

$ns at 1.0 "$ftp start"

$ns at 4.0 "$ftp stop"

$ns at 4.5 "$cbr stop"

$ns at 4.5 "$ns detach-agent $n0 $tcp; $ns detach-agent $n3 $sink"

$ns at 5.0 "finish{ }"

puts "CBR packet\_Size=[$cbr set packet\_Size\_]"

puts "CBR interval=[$cbr set interval\_]"

$ns run