set ns [new Simulator]  
  
#Open a new file for NAMTRACE  
set nf [open out.nam w]  
$ns namtrace-all $nf  
  
#Open a new file to log TRACE  
set tf [open out.tr w]  
$ns trace-all $tf  
  
#Body of the 'finish' procedure  
proc finish {} {  
 global ns nf tf  
 $ns flush-trace  
 close $nf  
 close $tf  
 exec nam out.nam &  
 exit 0  
}  
  
#Create Nodes  
set n0 [$ns node]  
set n1 [$ns node]  
set n2 [$ns node]  
set n3 [$ns node]  
  
#Create Links between Nodes   
$ns duplex-link $n0 $n2 1Mb 10ms DropTail  
$ns duplex-link $n1 $n2 1Mb 10ms DropTail  
$ns duplex-link $n2 $n3 1Mb 10ms DropTail  
  
#Set the queue limit - default is 50 packets  
$ns queue-limit $n0 $n2 50  
$ns queue-limit $n1 $n2 50  
$ns queue-limit $n2 $n3 50  
  
#Create TCP Agent between node 0 and node 3  
set tcp0 [new Agent/TCP]  
$ns attach-agent $n0 $tcp0  
set sink0 [new Agent/TCPSink]  
$ns attach-agent $n3 $sink0  
$ns connect $tcp0 $sink0  
  
#Create FTP Application for TCP Agent  
set ftp0 [new Application/FTP]  
$ftp0 attach-agent $tcp0  
  
#Specify TCP packet size  
Agent/TCP set packetSize\_ 1000  
  
#Create UDP Agent between node 1 and node 3   
set udp0 [new Agent/UDP]  
$ns attach-agent $n1 $udp0  
set null0 [new Agent/Null]   
$ns attach-agent $n3 $null0  
$ns connect $udp0 $null0  
  
#Create CBR Application for UDP Agent  
set cbr0 [new Application/Traffic/CBR]  
$cbr0 set packetSize\_ 500  
$cbr0 set interval\_ 0.005  
$cbr0 attach-agent $udp0  
  
#Start and Stop FTP Traffic  
$ns at 0.75 "$ftp0 start"  
$ns at 4.75 "$ftp0 stop"  
  
#Start and Stop CBR traffic  
$ns at 0.5 "$cbr0 start"  
$ns at 4.5 "$cbr0 stop"  
  
#Stop the simulation  
$ns at 5.0 "finish"  
  
#Run the simulation  
$ns run