```
Program:
set ns [new Simulator]
$ns rtproto DV
#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 [$ns node]
set n4 [$ns node]
set n5 [$ns node]
set n6 [$ns node]
#Create links between the nodes
$ns duplex-link $n0 $n1 10Mb 10ms DropTail
$ns duplex-link $n1 $n2 10Mb 10ms DropTail
$ns duplex-link $n2 $n3 10Mb 10ms DropTail
$ns duplex-link $n3 $n4 10Mb 10ms DropTail
$ns duplex-link $n3 $n0 10Mb 10ms DropTail
$ns duplex-link $n0 $n4 10Mb 10ms DropTail
$ns duplex-link $n4 $n2 10Mb 10ms DropTail
$ns duplex-link $n1 $n4 10Mb 10ms DropTail
$ns duplex-link $n4 $n3 10Mb 10ms DropTail
$ns duplex-link $n4 $n5 10Mb 10ms DropTail
$ns duplex-link $n3 $n5 10Mb 10ms DropTail
$ns duplex-link $n4 $n6 10Mb 10ms DropTail
$ns duplex-link $n3 $n6 10Mb 10ms DropTail
#Give node position (for NAM)
$ns duplex-link-op $n0 $n1 orient right
$ns duplex-link-op $n1 $n2 orient down
$ns duplex-link-op $n2 $n3 orient left
$ns duplex-link-op $n3 $n0 orient right
$ns duplex-link-op $n0 $n4 orient right-down
$ns duplex-link-op $n4 $n2 orient right-down
```

\$ns duplex-link-op \$n1 \$n4 orient left-down \$ns duplex-link-op \$n4 \$n3 orient left-down \$ns duplex-link-op \$n4 \$n5 orient left-down \$ns duplex-link-op \$n3 \$n5 orient left-down \$ns duplex-link-op \$n4 \$n6 orient left-down \$ns duplex-link-op \$n3 \$n6 orient left-down

#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 \$n5 \$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 \$ftp set packet_size_1000 \$ftp set rate 1mb

\$ns at 1.0 "\$ftp start" \$ns rtmodel-at 2.0 down \$n1 \$ n2 \$ns rtmodel-at 3.0 up \$n1 \$ n2 \$ns at 4.0 "\$ftp stop"

\$ns at 5.0 "finish"

#Run the simulation \$ns run

output:



