set ns [new Simulator]

set tf [open 3.tr w]

$ns trace-all $tf

set nf [open 3.nam w]

$ns namtrace-all $nf

set cwind [open win3.tr w]

$ns rtproto DV

set n0 [$ns node]

set n1 [$ns node]

set n2 [$ns node]

set n3 [$ns node]

set n4 [$ns node]

set n5 [$ns node]

$ns duplex-link $n0 $n1 1Mb 10ms DropTail

$ns duplex-link $n1 $n4 1Mb 10ms DropTail

$ns duplex-link $n4 $n5 1Mb 10ms DropTail

$ns duplex-link $n5 $n3 1Mb 10ms DropTail

$ns duplex-link $n3 $n2 1Mb 10ms DropTail

$ns duplex-link $n2 $n0 1Mb 10ms DropTail

$ns queue-limit $n1 $n4 10

$ns queue-limit $n2 $n3 10

set tcp0 [new Agent/TCP]

$ns attach-agent $n0 $tcp0

set sink0 [new Agent/TCPSink]

$ns attach-agent $n4 $sink0

$ns connect $tcp0 $sink0

set ftp0 [new Application/FTP]

$ftp0 attach-agent $tcp0

$tcp0 set fid\_ 1

$ns rtmodel-at 1.0 down $n1 $n4

$ns rtmodel-at 3.0 up $n1 $n4$ns at 0.1 "$ftp0 start"

proc plotWindow {tcpSource file} {

global ns

set time 0.01

set now [$ns now]

set cwnd [$tcpSource set cwnd\_]

puts $file "$now $cwnd"

$ns at [expr $now+$time] "plotWindow $tcpSource $file" }

$ns at 1.0 "plotWindow $tcp0 $cwind"

proc finish {} {

global ns tf nf cwind

$ns flush-trace

close $tf

close $nf

puts "running nam..."

exec xgraph win3.tr &

exec nam 3.nam &

exit 0

}

$ns at 12.0 "finish"

$ns run