set ns [new Simulator]

set nf [open 2.nam w]

set tf [open 2.tr w]

set cwind [open win2.tr w]

$ns color 1 Blue$ns color 2 Red

$ns namtrace-all $nf

$ns trace-all $tf

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 $n2 2Mb 2ms DropTail

$ns duplex-link $n2 $n3 0.4Mb 5ms DropTail

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

$ns duplex-link $n3 $n4 2Mb 2ms DropTail

$ns duplex-link $n3 $n5 2Mb 2ms DropTail

$ns queue-limit $n2 $n3 10

set tcp1 [new Agent/TCP]

set sink1 [new Agent/TCPSink]

set ftp1 [new Application/FTP]

$ns attach-agent $n0 $tcp1

$ns attach-agent $n5 $sink1

$ns connect $tcp1 $sink1

$ftp1 attach-agent $tcp1

$ns at 1.2 "$ftp1 start"

set tcp2 [new Agent/TCP]

set sink2 [new Agent/TCPSink]

set telnet1 [new Application/Telnet]

$ns attach-agent $n1 $tcp2

$ns attach-agent $n4 $sink2

$ns connect $tcp2 $sink2

$telnet1 attach-agent $tcp2

$ns at 5.1 "$telnet1 start"

$ns at 5.0 "$ftp1 stop"

$ns at 10.0 "finish"

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 2.0 "plotWindow $tcp1 $cwind"

$ns at 5.5 "plotWindow $tcp2 $cwind"proc finish {} {

global ns tf nf cwind

$ns flush-trace

close $tf

close $nf

#close $cwind

puts "running nam..."

exec nam 2.nam &

exec xgraph win2.tr &

exit 0

}

$ns run