set ns [new Simulator]set tf [open 1.tr w]

$ns trace-all $tf

set nf [open 1.nam w]

$ns namtrace-all $nf

$ns color 1 Blue

$ns color 2 Red

set n0 [$ns node]

set n1 [$ns node]

set n2 [$ns node]

set n3 [$ns node]

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

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

$ns duplex-link $n2 $n3 0.4Mb 10ms DropTail

$ns queue-limit $n2 $n3 5

set udp1 [new Agent/UDP]

$ns attach-agent $n0 $udp1

set null1 [new Agent/Null]

$ns attach-agent $n3 $null1

$ns connect $udp1 $null1

set cbr1 [new Application/Traffic/CBR]

$cbr1 attach-agent $udp1

$ns at 1.1 "$cbr1 start"

set tcp1 [new Agent/TCP]

$ns attach-agent $n1 $tcp1

set sink1 [new Agent/TCPSink]

$ns attach-agent $n3 $sink1

$ns connect $tcp1 $sink1

set ftp1 [new Application/FTP]

$ftp1 attach-agent $tcp1

$ns at 0.1 "$ftp1 start"

$ns at 10.0 "finish"

proc finish {} {

global ns tf nf

$ns flush-trace

close $tf

close $nf

puts "running nam..."

exec nam 1.nam &

exit 0

}$ns run

1.awk:

BEGIN {

tcp\_count=0;

udo\_count=0;

}{

if($1 == "d" && $5 == "tcp")

tcp\_count++;

if($1 == "d" && $5 == "cbr")

udp\_count++;

} END {

printf("TCP %d\n",tcp\_count);

printf("UDP %d\n",udp\_count);

}