

```

set ns [new Simulator]
set nf [open lab1.nam w]
$ns namtrace-all $nf
set tf [open lab1.tr w]
$ns trace-all $tf

proc finish {} {
    global ns nf tf
    $ns flush-trace
    close $nf
    close $tf
    exec nam lab1.nam &
    exit 0
}

set n0 [$ns node]
set n1 [$ns node]
set n2 [$ns node]

$ns duplex-link $n0 $n1 10mb 300ms DropTail
$ns duplex-link $n1 $n2 1mb 300ms DropTail

$ns queue-limit $n0 $n1 10
$ns queue-limit $n1 $n2 5

set udp0 [new Agent/UDP]
$ns attach-agent $n0 $udp0
set null2 [new Agent/Null]
$ns attach-agent $n2 $null2

set cbr0 [new Application/Traffic/CBR]
$cbr0 attach-agent $udp0

$cbr0 set packetSize_ 500
$cbr0 set interval_ 0.0005

```

```
$ns connect $udp0 $null2
```

```
$ns at 0.1 "$cbr0 start"
```

```
$ns at 4.9 "$cbr0 stop"
```

```
$ns at 5.0 "finish"
```

```
$ns run
```

AWK FILE

```
BEGIN {
```

```
count = 0;
```

```
}
```

```
{
```

```
if($1 == "d"){
```

```
count++;
```

```
}
```

```
}
```

```
END {
```

```
printf("The no. of packets dropped is %d\n",count);
```

```
}
```