

4

Implement three nodes point to point network with duplex links between them set queue-size vary the bandwidth and find the number of packets dropped.

```

set ns[new Simulator]
set na[open progs. nam w]
$ns namtrace -all $na
set nt[open progs. tr w]
$ns trace -all $nt
set n0[$ns node]
set n1[$ns node]
set n2[$ns node]
$ns duplex-link $n0 $n1 100Mb 100ms DropTail
$ns queue-limit $n0 $n1 10
$ns duplex-link $n1 $n2 100Mb 100ms DropTail
$ns queue-limit $n1 $n2 10
set tcp[new Agent/TCP]
$ns attach-agent $n0 $tcp
set cbr[new Application/Traffic/CBR]
$cbr attach-agent $tcp
set sink[new Agent/TCP Sink]
$ns attach-agent $n2 $sink
$ns commit $tcp $sink
proc End {} {
    global ns na nt
    $ns flush-trace
    close $na
    close $nt
    exec nam progs. nam &
    exit 0
}

```

3

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Experiment No. 4

\$no at 0.0 "\$ are stored"
\$no at 50.0 "End"
\$no sum

prog. awk

```
BEGIN {count = 0;}
```

```
{
```

```
  if ($1 == 'd')  
    count ++;
```

```
}
```

```
END {
```

```
  printf("Number of packets dropped is: %d\n",  
         count);
```

```
}
```