```
# Simulation parameters setup
set val(stop) 6.0 ; # stopping time of the simulation
# Initialization
#Create a ns simulator
set ns [new Simulator]
#Open the NS trace file
set tracefile [open 1.tr w]
$ns trace-all $tracefile
#Open the NAM trace file
set namfile [open 1.nam w]
$ns namtrace-all $namfile
# Nodes Definition
#Create 3 nodes
set n1 [$ns node]
set n2 [$ns node]
set n3 [$ns node]
# Links Definition
#Createlinks between nodes
$ns duplex-link $n1 $n2 1000Kb 60ms DropTail
$ns queue-limit $n1 $n2 14
$ns duplex-link $n2 $n3 500Kb 60ms DropTail
$ns queue-limit $n2 $n3 4
$ns duplex-link-op $n1 $n2 queuePos 0.5
$ns duplex-link-op $n2 $n3 queuePos 0.2
# Agents Definition
#Setup a TCP connection
set tcp0 [new Agent/TCP]
$ns attach-agent $n1 $tcp0
set sink1 [new Agent/TCPSink]
$ns attach-agent $n3 $sink1
$ns connect $tcp0 $sink1
$tcp0 set packetSize_ 1500
# Applications Definition
#Setup a FTP Application over TCP connection
set ftp0 [new Application/FTP]
$ftp0 attach-agent $tcp0
$ns at 0.2 "$ftp0 start"
$ns at 5.0 "$ftp0 stop"
# Termination
#Define a 'finish' procedure
proc finish {} {
global ns tracefile namfile
$ns flush-trace
close $tracefile
```

```
close $namfile
exec nam 1.nam &
exit 0
}
$ns at $val(stop) "$ns nam-end-wireless $val(stop)"
$ns at $val(stop) "finish"
$ns at $val(stop) "puts \"done\" ; $ns halt"
$ns run
```

Awk file

```
BEGIN {
count=0;
total=0;
}
{
event=$1;
if(event=="d") {
count++;
}
}
END {
printf("No of packets dropped : %d\n",count);
}
```