```
set val(stop) 25.0; #time of simulator end

#create ns object
set ns  [new Simulator]

#open the ns trace file
set tracefile [open p2.tr w];
$ns trace-all $tracefile;

#open the nam file
set namfile [open p2.nam w];
$ns namtrace-all $namfile;

set n0 [$ns node]
set n1 [$ns node]
set n2 [$ns node]
set n3 [$ns node]
set n4 [$ns node]
set n5 [$ns node]
set n6 [$ns node]

#create labels for nodes

$n0 label "UDP SOURCE";
$n1 label "ONE"
$n2 label "TWO"
$n3 label "THREE"
$n4 label "FOUR"
$n5 label "FIVE"
$n6 label "UDP DESTINATION"

#give shapes to nodes

$n0 shape hexagon;
$n1 shape circle;
$n2 shape square;
$n3 shape square;
```

```
$n4 shape square;
$n5 shape square;
$n6 shape circle;

#give colors to nodes
$n0 color red;
$n1 color blue;
$n2 color blue;
$n3 color blue;
$n4 color blue;
$n5 color blue;
$n6 color black;

set lan [ $ns newLan "$n0 $n1 $n2 $n3 $n4 $n5 $n6" 1.0Mb 40ms LL
Queue|DropTail Mac|802_3 Channel ];

#setup 1 UDP connection
set udp1 [new Agent/UDP];
$ns attach-agent $n0 $udp1;
$udp1 set packetSize_ 1000;

set null2 [new Agent/Null];
$ns attach-agent $n6 $null2;

#connect source to destination
$ns connect $udp1 $null2;

#setup  cbr application over udp connection

set cbr1 [new Application/Traffic/CBR];
$cbr1 attach-agent $udp1;

#set interval
$cbr1 set interval_ 0.1;

#assign flow id
$ns color 1 red;
```

```
$udp1 set fid_ 1;

$ns at 0.1 "$cbr1 start";
$ns at 24.9 "$cbr1 stop";

#define a procedure
proc finish {} {
        global ns tracefile namfile;
        $ns flush-trace;
        close $tracefile;
        close $namfile;
        exec nam p2.nam &;
        exit 0;
}
$ns at $val(stop) "finish";
$ns run
```