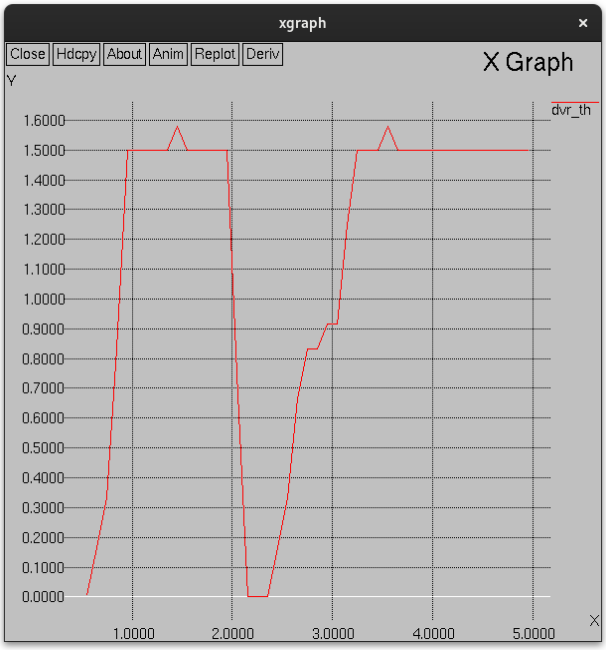
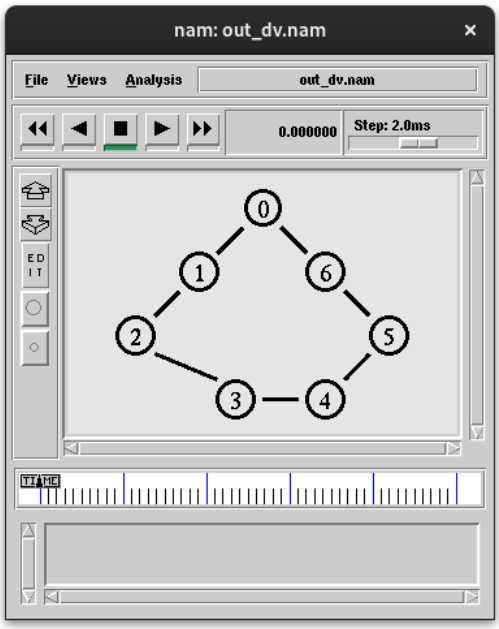
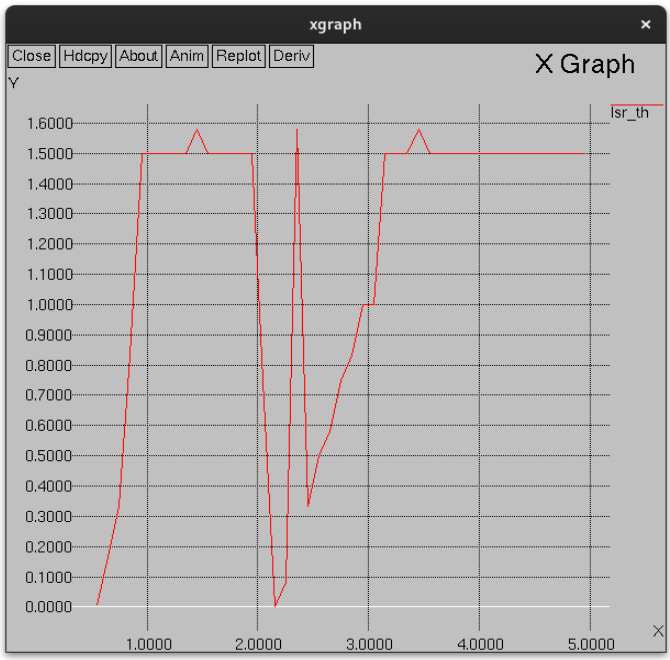
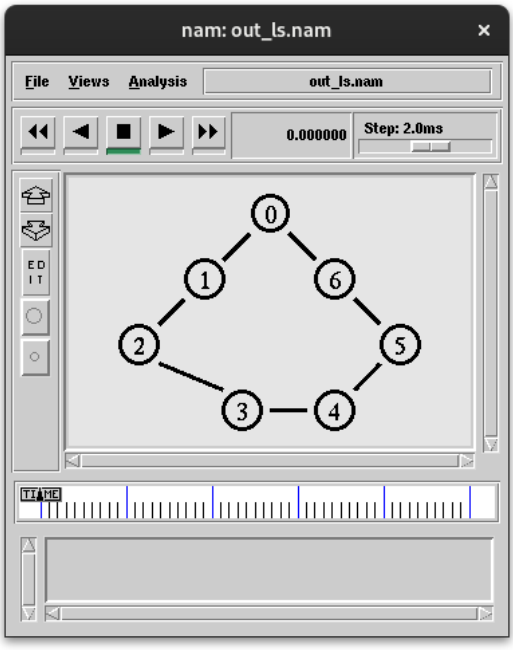
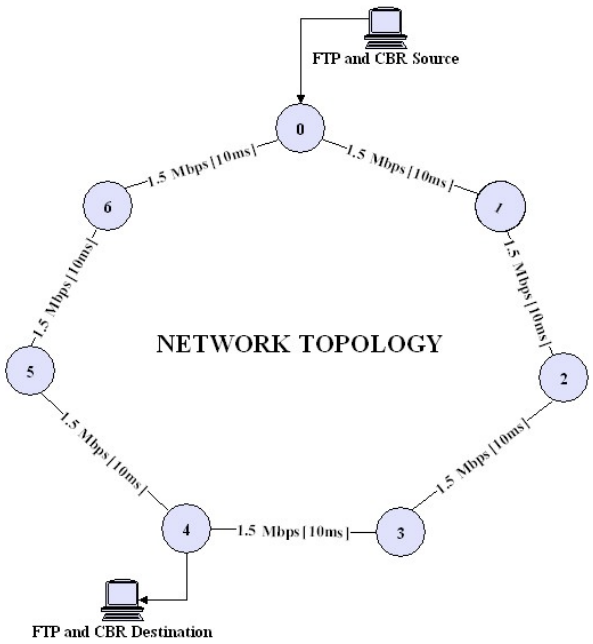

xgraph
Close
Hdcpy
About
Anim
Replot
Deriv
X Graph
Y
dvr_th
1.6000
1.5000
1.4000
1.3000
1.2000
1.1000
1.0000
0.9000
0.8000
0.7000
0.6000
0.5000
0.4000
0.3000
0.2000
0.1000
0.0000
1.0000
2.0000
3.0000
4.0000
5.0000
X


nam: out_dv.nam
File
Views
Analysis
out_dv.nam
0.000000
Step: 2.0ms
EDIT
TIME
0
1
2
3
4
5
6


xgraph
Close
Hdcpy
About
Anim
Replot
Deriv
X Graph
Y
lsr_th
1.6000
1.5000
1.4000
1.3000
1.2000
1.1000
1.0000
0.9000
0.8000
0.7000
0.6000
0.5000
0.4000
0.3000
0.2000
0.1000
0.0000
1.0000
2.0000
3.0000
4.0000
5.0000
X

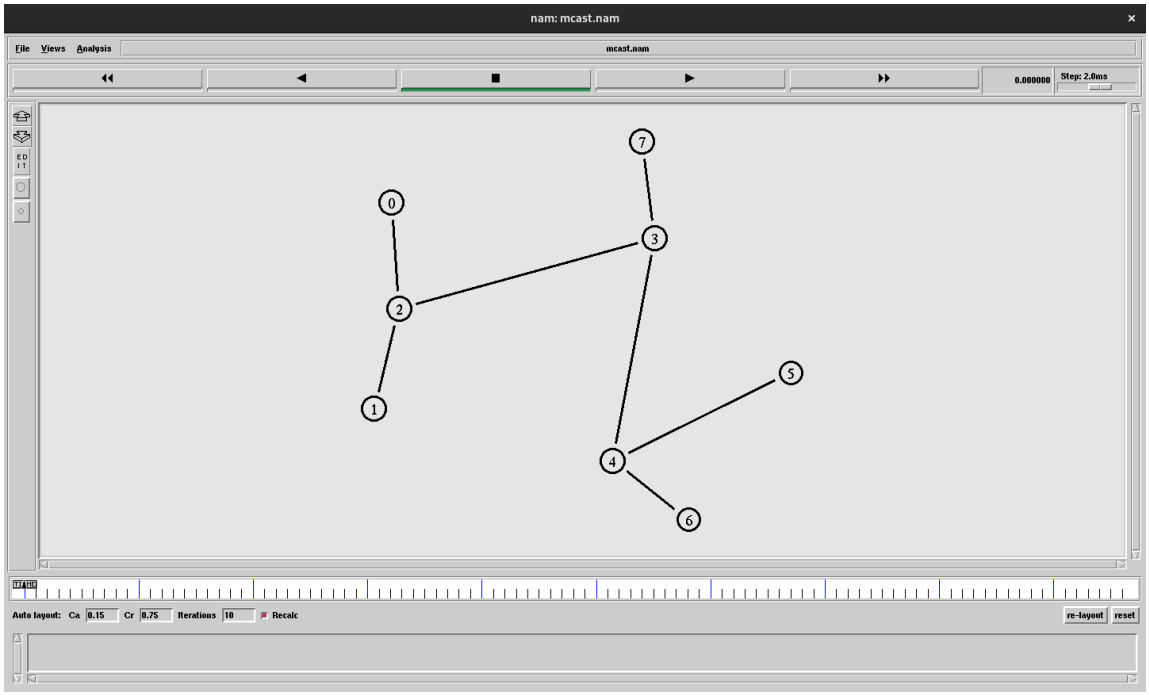

nam: out_ls.nam
File
Views
Analysis
out_ls.nam
0.000000
Step: 2.0ms
EDIT
TIME
0
1
2
3
4
5
6

```
kbdharunkrishna@ns:~/Downloads/exp7
~/Downloads/exp7
➜  exp7 awk -f 'Exp7 - routing_throughput.awk' 'out_ls.tr'
Average Throughput[kbps] = 4031.29
 StartTime=0.50
StopTime=5.00
➜  exp7 awk -f 'Exp7 - routing_throughput.awk' 'out_dv.tr'
Average Throughput[kbps] = 3790.12
 StartTime=0.50
StopTime=5.00
```



The technical characteristics of the network are the following

- All the links will have bandwidth of 1.5 Mbps, delay of 10ms and they will have a DropTail queue
- We will have two types of traffics: FTP Traffic and CBR traffic. The CBR traffic will have rate of 1Mbps and the packet size will be 1000 bytes
  - Use **TCP** for the **FTP** Traffic
  - Use **UDP** for the **CBR** Traffic



kbdharunkrishna@ns:~/Documents/Uni/CN/CN-Lab/8-Multicast-Routing

~/Documents/Uni/CN/CN-Lab/8-Multicast-Routing

```
➜  8-Multicast-Routing awk -f 'analysis.awk' output.tr

Packets received: 2288
Packets dropped: 0
Packets delivery ratio: 100.00%
Throughput for UDP: 3.58 Mbps
Throughput for TCP: 8.35 Mbps
```