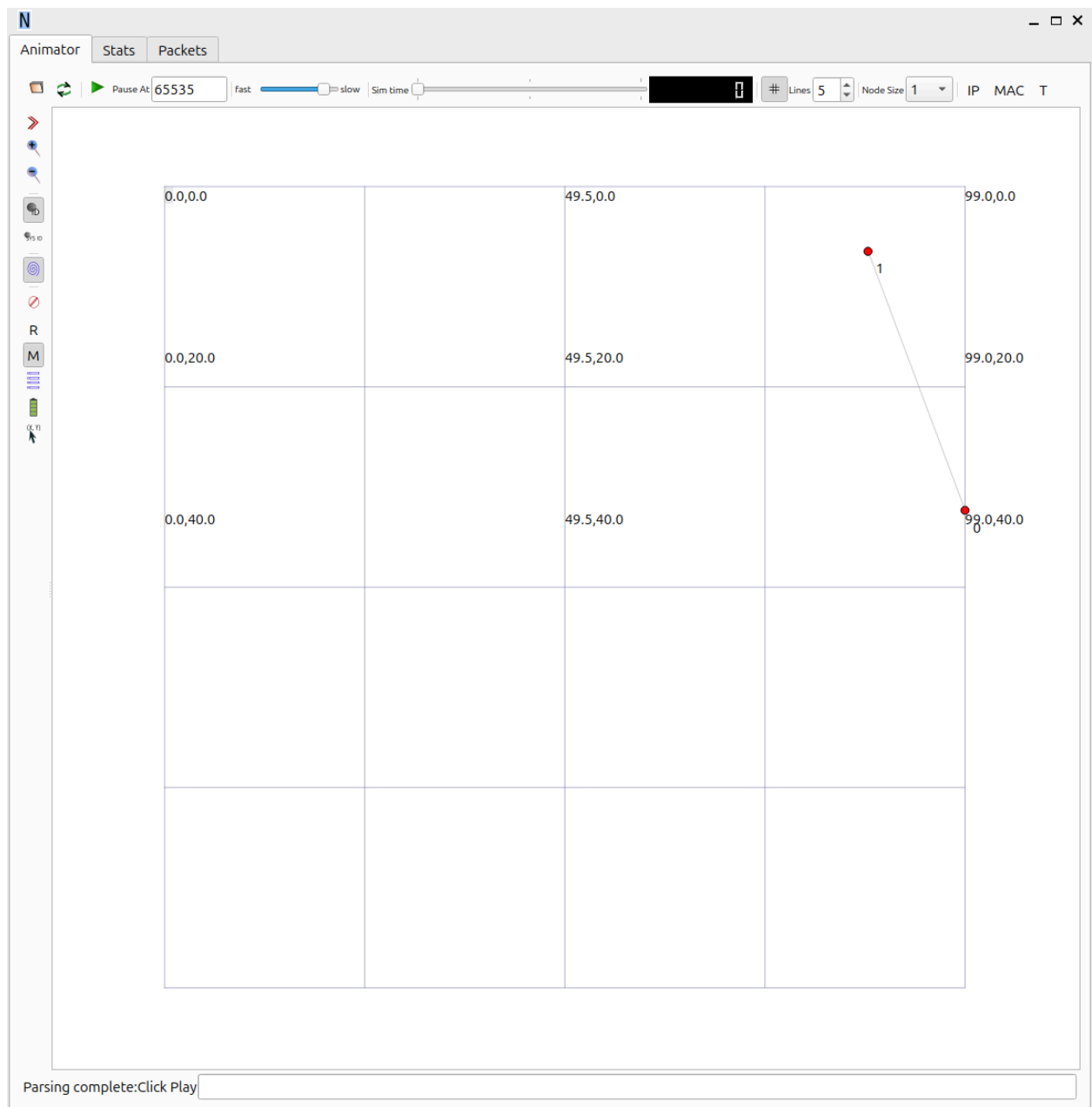


CS 315 : Computer Networks Lab
Assignment - 13
NS-3

Ayush Mallick
CS22BT008

Part-1



N

Animator

Stats

Packets

IP-MAC

Sim Time

Font Size 10

FlowMon file

RemainingEnergy

Nodes 0:1

Show Table

All

None

0

1

2

Node:0

IP: 10.1.1.1
127.0.0.1

IPv6: ::1

MAC: 00:00:00:00:00:01

Other Node:1
Other Node IP:10.1.1.2
Other Node MAC:
00:00:00:00:00:02
Info:
Δ

Node:0

IP: 10.1.1.1
127.0.0.1

IPv6: ::1

MAC: 00:00:00:00:00:0Δ

Node:1

IP: 127.0.0.1
10.1.1.2

IPv6: ::1

MAC: 00:00:00:00:00:02

Other Node:0
Other Node IP:10.1.1.1
Other Node MAC:
00:00:00:00:00:01
Info:
Δ

Node:1

IP: 127.0.0.1
10.1.1.2

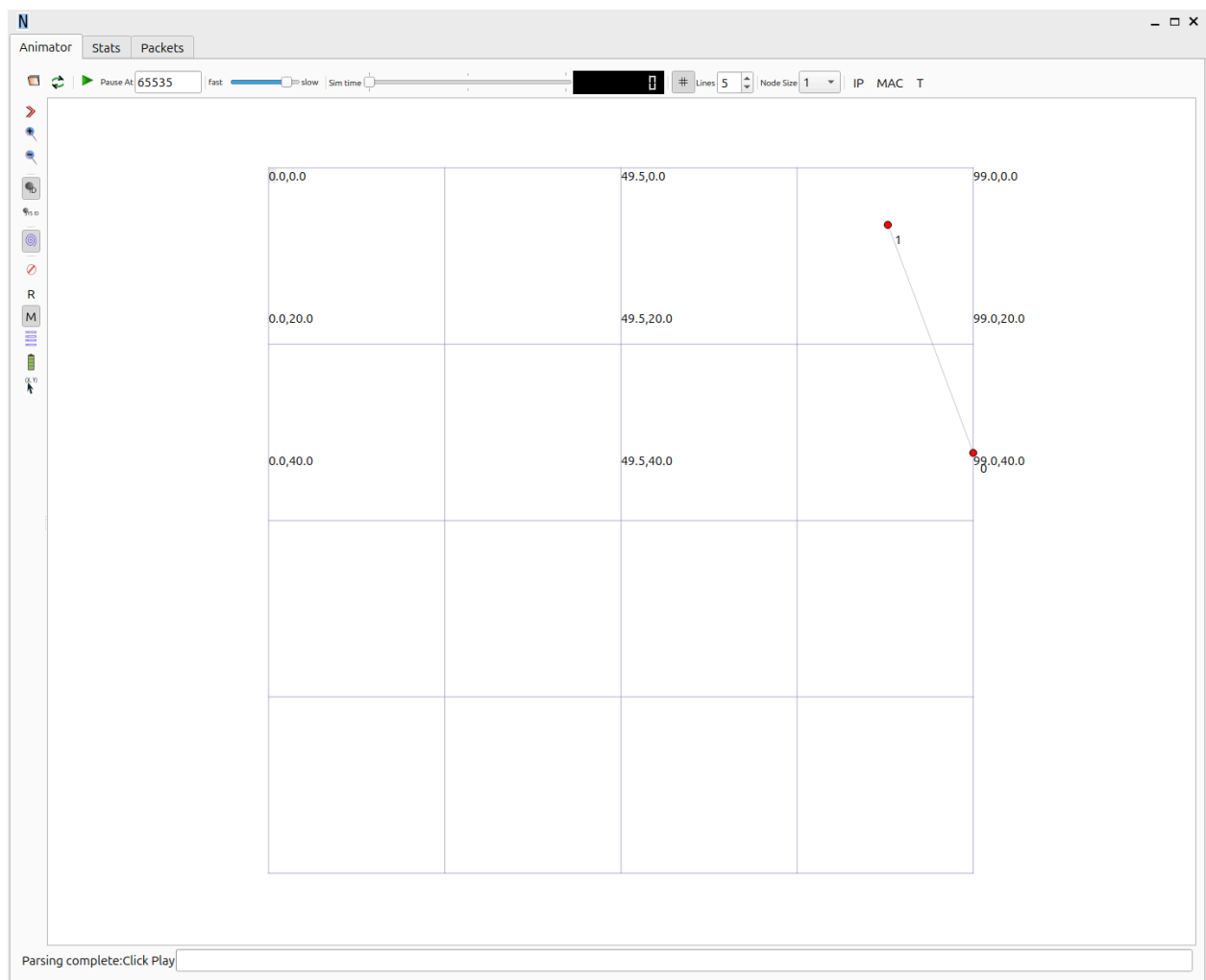
IPv6: ::1

MAC: 00:00:00:00:00:0Δ

Parsing Complete

Part-2

```
ayushm@ayushm-predator:~/ns-allinone-3.36.1/ns-3.36.1$ python3 flowmon-parse-results.py flow-monitor-results.xml
Reading XML file . done.
FlowID: 1 (UDP 10.1.1.1/49153 --> 10.1.1.2/9)
TX bitrate: None
RX bitrate: None
Mean Delay: 3.69 ms
Packet Loss Ratio: 0.00 %
FlowID: 2 (UDP 10.1.1.2/9 --> 10.1.1.1/49153)
TX bitrate: None
RX bitrate: None
Mean Delay: 3.69 ms
Packet Loss Ratio: 0.00 %
```



N

Animator

Stats

Packets

IP-MAC

Sim Time

Font Size 10

FlowMon file

RemainingEnergy

Nodes 0:1

Show Table

All

None

0

1

Node:0

IP: 10.1.1.1
127.0.0.1

IPv6: ::1

MAC: 00:00:00:00:00:01

Other Node:1
Other Node IP:10.1.1.2
Other Node MAC: 00:00:00:00:00:02
Info: Δ

Node:0

IP: 10.1.1.1
127.0.0.1

IPv6: ::1

MAC: 00:00:00:00:00:0Δ

Node:1

IP: 127.0.0.1
10.1.1.2

IPv6: ::1

MAC: 00:00:00:00:00:02

Other Node:0
Other Node IP:10.1.1.1
Other Node MAC: 00:00:00:00:00:01
Info: Δ

Node:1

IP: 127.0.0.1
10.1.1.2

IPv6: ::1

MAC: 00:00:00:00:00:0Δ

Parsing Complete

N

Animator

Stats

Packets

Flow-monitor

Sim Time

Font Size 10

FlowMon file

RemainingEnergy

Nodes 0:1

Show Table

All

None

0

1

Flow Id:1

=====

UDP 10.1.1.1/49153---->10.1.1.2/9

Tx bitrate:-8.416e+09kbps
Rx bitrate:-8.416e+09kbps
Mean delay:3.6864ms
Packet Loss ratio:0%

timeFirstTxPacket= 2e+09ns
timeFirstRxPacket= 2.00369e+09ns
timeLastTxPacket= 2e+09ns
timeLastRxPacket= 2.00369e+09ns
delaySum= 3.6864e+06ns
jitterSum= 0ns
lastDelay= 3.6864e+06ns
txBytes= 1052
rxBytes= 1052
txPackets= 1
rxPackets= 1
lostPackets= 0
timesForwarded= 0

delayHistogram nBins:4
Index:3 Start:0.003 Width:0.001 Count:1

jitterHistogram nBins:0

packetSizeHistogram nBins:53
Index:52 Start:1040 Width:20 Count:1

flowInterruptionsHistogram nBins:0
Δ

Flow Probes:

Index:0
FlowId:1 Packets:1 Bytes:1052 DelayFromFirstProbeSum:0ns
FlowId:2 Packets:1 Bytes:1052 DelayFromFirstProbeSum:3.6864e+06ns

Index:1

Index:2
FlowId:1 Packets:1 Bytes:1052 DelayFromFirstProbeSum:3.6864e+06ns
FlowId:2 Packets:1 Bytes:1052 DelayFromFirstProbeSum:0ns

Index:3
Δ

Parsing Complete