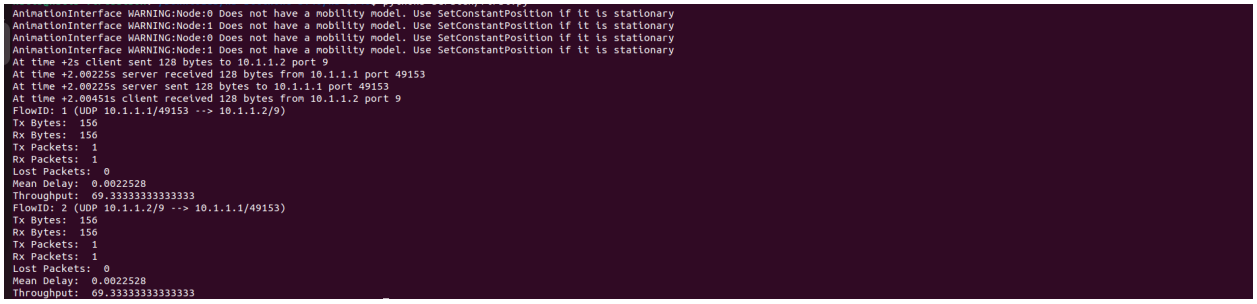
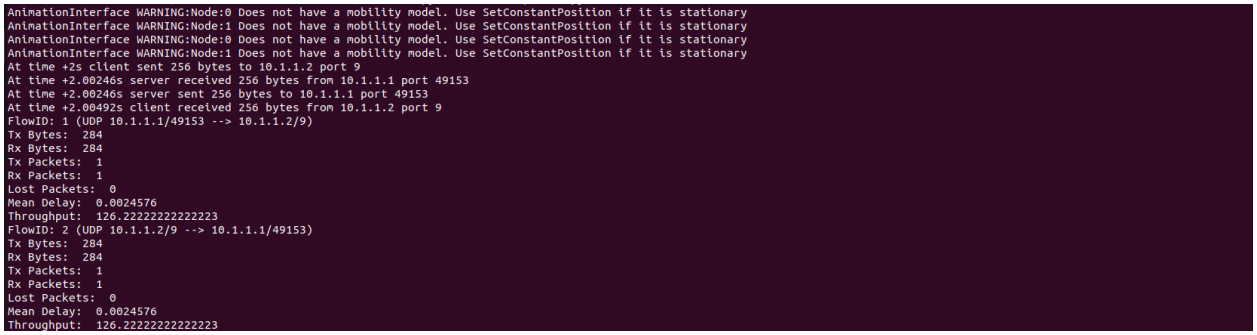
Screenshots of the outputs for different data sizes:

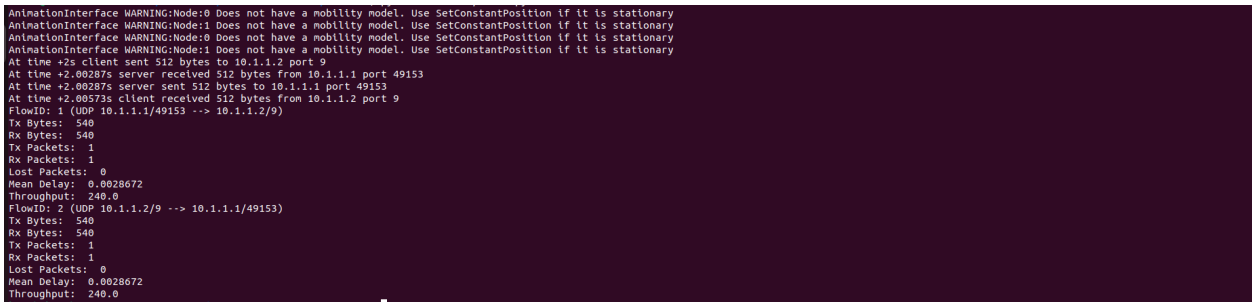
Data packet size: 128 bytes
Throughput: 69.33



Data packet size: 256 bytes
Throughput: 126.22



Data packet size: 512 bytes
Throughput: 240.0



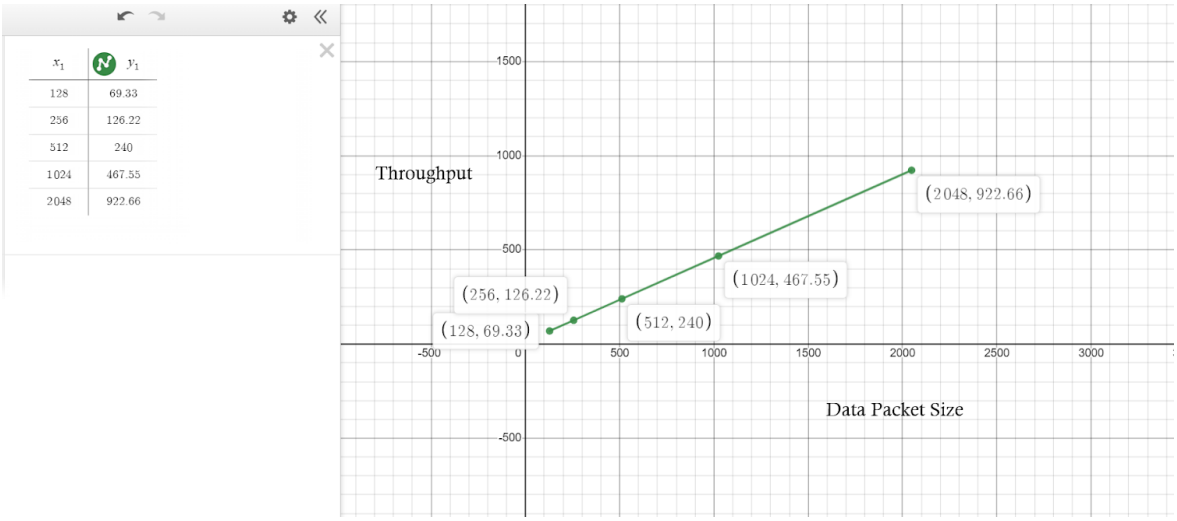
Data packet size: 1024 bytes
Throughput: 467.55

```
AnimationInterface WARNING:Node:0 Does not have a mobility model. Use SetConstantPosition if it is stationary
AnimationInterface WARNING:Node:1 Does not have a mobility model. Use SetConstantPosition if it is stationary
AnimationInterface WARNING:Node:0 Does not have a mobility model. Use SetConstantPosition if it is stationary
AnimationInterface WARNING:Node:1 Does not have a mobility model. Use SetConstantPosition if it is stationary
At time +2s client sent 1024 bytes to 10.1.1.2 port 9
At time +2.00369s server received 1024 bytes from 10.1.1.1 port 49153
At time +2.00369s server sent 1024 bytes to 10.1.1.1 port 49153
At time +2.00737s client received 1024 bytes from 10.1.1.2 port 9
FlowID: 1 (UDP 10.1.1.1/49153 --> 10.1.1.2/9)
Tx Bytes:  1052
Rx Bytes:  1052
Tx Packets:  1
Rx Packets:  1
Lost Packets:  0
Mean Delay:  0.0036864
Throughput:  467.55555555555554
FlowID: 2 (UDP 10.1.1.2/9 --> 10.1.1.1/49153)
Tx Bytes:  1052
Rx Bytes:  1052
Tx Packets:  1
Rx Packets:  1
Lost Packets:  0
Mean Delay:  0.0036864
Throughput:  467.55555555555554
```

Data packet size: 2048 bytes
Throughput: 922.66

```
AnimationInterface WARNING:Node:0 Does not have a mobility model. Use SetConstantPosition if it is stationary
AnimationInterface WARNING:Node:1 Does not have a mobility model. Use SetConstantPosition if it is stationary
AnimationInterface WARNING:Node:0 Does not have a mobility model. Use SetConstantPosition if it is stationary
AnimationInterface WARNING:Node:1 Does not have a mobility model. Use SetConstantPosition if it is stationary
At time +2s client sent 2048 bytes to 10.1.1.2 port 9
At time +2.00536s server received 2048 bytes from 10.1.1.1 port 49153
At time +2.00536s server sent 2048 bytes to 10.1.1.1 port 49153
At time +2.01072s client received 2048 bytes from 10.1.1.2 port 9
FlowID: 1 (UDP 10.1.1.1/49153 --> 10.1.1.2/9)
Tx Bytes:  2076
Rx Bytes:  2076
Tx Packets:  1
Rx Packets:  1
Lost Packets:  0
Mean Delay:  0.00536
Throughput:  922.6666666666666
FlowID: 2 (UDP 10.1.1.2/9 --> 10.1.1.1/49153)
Tx Bytes:  2076
Rx Bytes:  2076
Tx Packets:  1
Rx Packets:  1
Lost Packets:  0
Mean Delay:  0.00536
Throughput:  922.6666666666666
```

Throughput-y axis and Data size-x axis graph:



x_1	y_1
128	69.33
256	126.22
512	240
1024	467.55
2048	922.66

Based on the graph above, it is evident that throughput values rise in tandem with data size. Thus, the relationship is positive and linear.