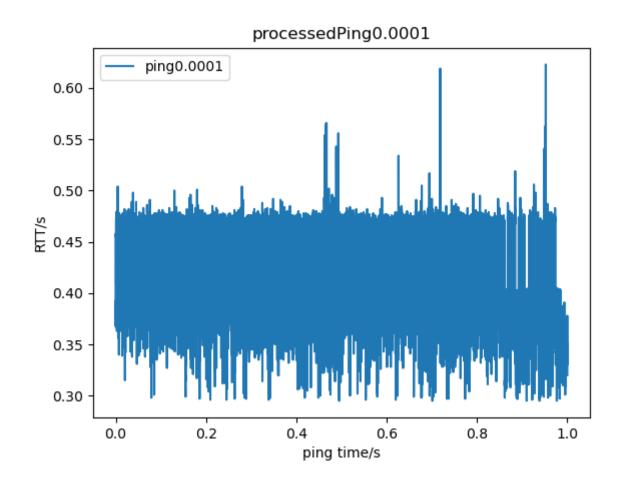
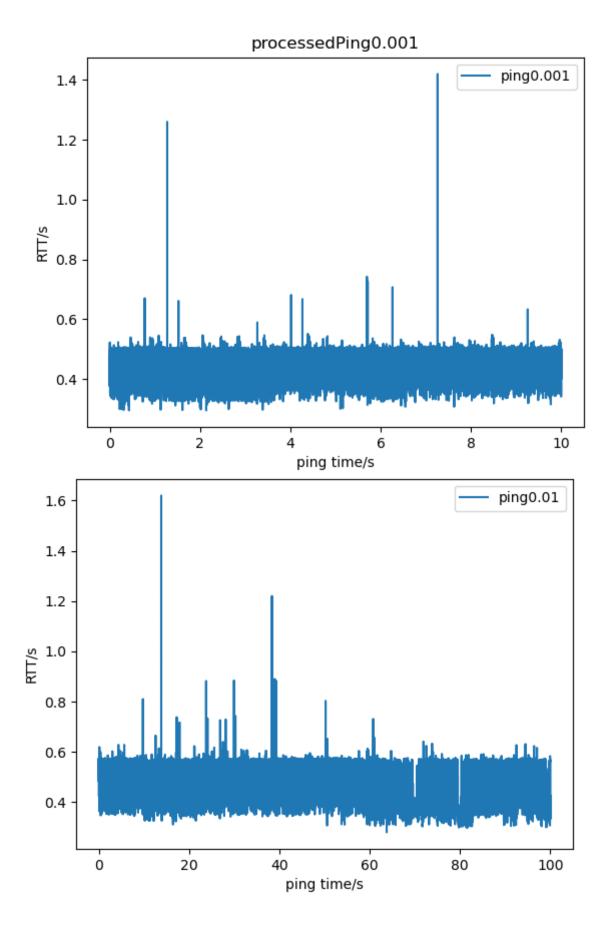
- 1) 10 packets transmitted, 10 received, 0% packet loss, time 1834ms rtt min/avg/max/mdev = 0.359/0.447/0.487/0.045 ms
- 2) 10 packets transmitted, 10 received, 0% packet loss, time 1808ms rtt min/avg/max/mdev = 0.373/0.484/0.621/0.075 ms
- 3)100 packets transmitted, 100 received, 0% packet loss, time 109ms rtt min/avg/max/mdev = 0.331/0.433/0.584/0.059 ms min is shortest for round trip time for a packet, while max is longest, representing best case and worst case latency. Average is calculated over 100 packets
- 4)10000 packet transmitted, 10000 received, 0% packet loss, time 4114ms rtt min/avg/max/mdev = 0.284/0.375/0.707/0.046 ms, ipf/ewma~0.411/0.414ms

5)





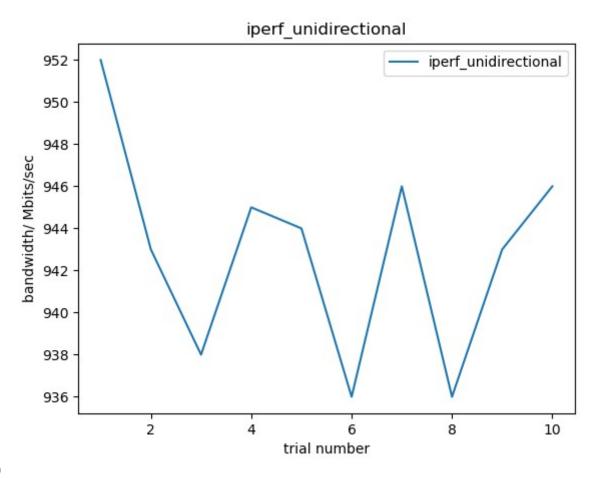
6)When the interval between packets is very short, the network may become congested, leading to increased delays and higher RTT values

The average is the most accurate as it remove the influence of individual fluctuations.

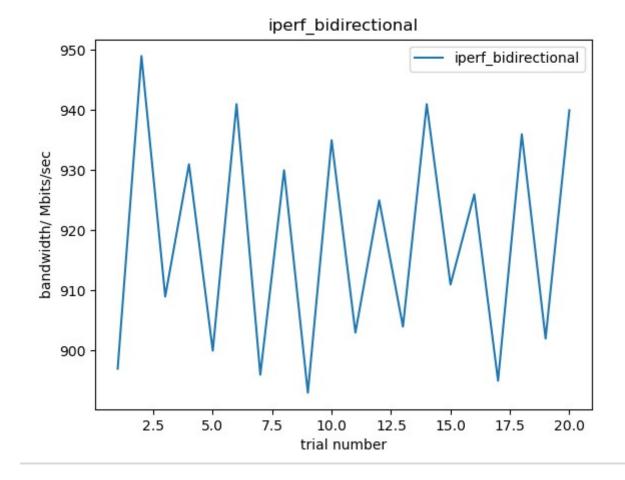
Iperf

1) 0.0000 – 10.0038 sec 1.09Gytes 940Mbits/sec

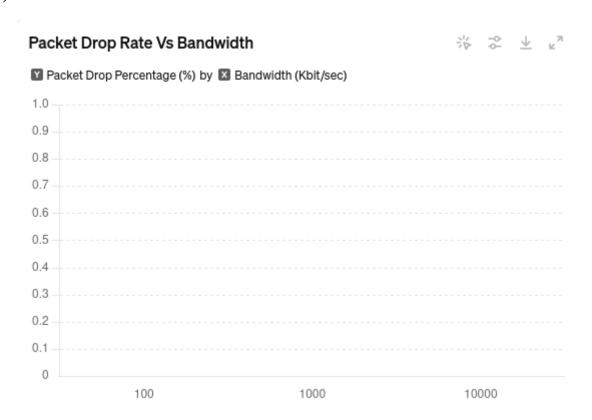
2)



3)



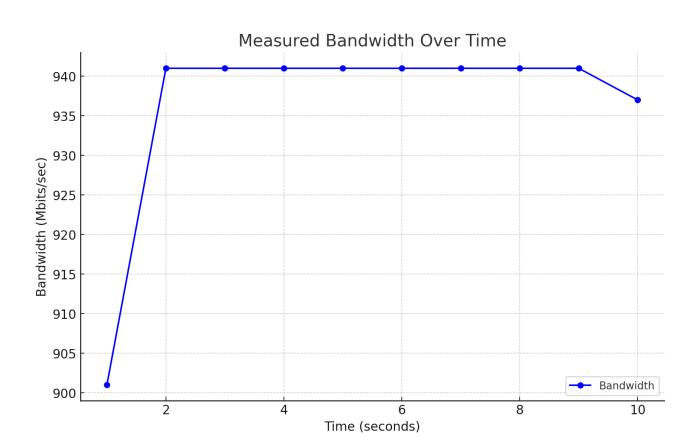




```
local 192.168.10.1 port 45772 connected with 192.168.10.2 port 5001
                 Transfer Bandwidth
  0.0000-5.1748 sec 66.0 KBytes 105 Kbits/sec
  Sent 47 datagrams
  Server Report:
  Interval
                 Transfer Bandwidth
                                                 Jitter Lost/Total Datagrams
 0.0000-5.1744 sec 66.0 KBytes 105 Kbits/sec 0.009 ms 0/46 (0%)
    1] local 192.168.10.1 port 34504 connected with 192.168.10.2 port 5001
 7 [ ID] Interval Transfer
                               Bandwidth
8 [ 1] 0.0000-5.0219 sec 616 KBytes 1.00 Mbits/sec
9 [ 1] Sent 430 datagrams
LO [ 1] Server Report:
11 [ ID] Interval
                      Transfer
                                   Bandwidth
                                                   Jitter
                                                           Lost/Total Datagrams
12 [ 1] 0.0000-5.0215 sec 616 KBytes 1.00 Mbits/sec 0.006 ms 0/429 (0%)
6 [ 1] local 192.168.10.1 port 49715 connected with 192.168.10.2 port 5001
7 [ ID] Interval Transfer Bandwidth
8 [ 1] 0.0000-5.0018 sec 5.97 MBytes 10.0 Mbits/sec
9 [ 1] Sent 4256 datagrams
10 [ 1] Server Report:
                      Transfer
                                  Bandwidth
11 [ ID] Interval
                                                   Jitter
                                                           Lost/Total Datagrams
12 [ 1] 0.0000-5.0015 sec 5.97 MBytes 10.0 Mbits/sec 0.016 ms 0/4255 [0%]
```

iperf3

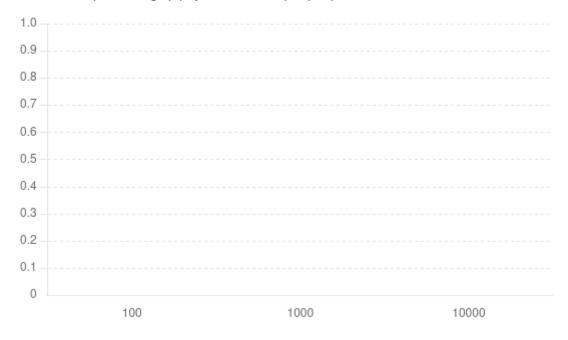
1)



Packet Drop Rate Vs Bandwidth



Y Packet Drop Percentage (%) by Bandwidth (Kbit/sec)



url:https://github.com/Sitaoooo/CWM-ProgNets/tree/a143fdd1670907667b7adbef98ee6f7920b403a1/assignment2