14) Download iperf in laptop/phone and make sure they are in same network. Try different iperf commands with tcp, udp, birectional, reverse, multicast, parallel options and analyze the bandwidth and rate of transmission, delay, jitter etc.

Using windows where I run the server and client from the same machine :

TCP:

CLIENT:

```
C:\Users\pavan\Downloads\iperf3.18_64\iperf3.18_64>iperf3 -c 127.0.0.1
onnecting to host 127.0.0.1, port 5201
  5] local 127.0.0.1 port 59738 connected to 127.0.0.1 port 5201
 ID] Interval
                         Transfer
                                      Bitrate
                   sec 3.97 GBytes
  5]
       0.00-1.01
                                      33.7 Gbits/sec
  5]
       1.01-2.01
                   sec 3.90 GBytes
                                      33.5 Gbits/sec
  5]
                                      33.9 Gbits/sec
       2.01-3.01
                   sec 3.95 GBytes
                   sec 3.90 GBytes
                                      33.9 Gbits/sec
  5]
       3.01-4.00
  5]
       4.00-5.00
                   sec 4.15 GBytes
                                      35.7 Gbits/sec
  5]
                                      33.4 Gbits/sec
       5.00-6.01
                   sec 3.91 GBytes
                        4.21 GBytes
                                      35.9 Gbits/sec
  5]
       6.01-7.01
                   sec
                        4.32 GBytes
3.41 GBytes
  5]
       7.01-8.00
                                      37.5 Gbits/sec
                   sec
  5]
       8.00-9.01
                                      29.0 Gbits/sec
                   sec
       9.01-10.01 sec
  5]
                         3.45 GBytes
                                      29.7 Gbits/sec
 ID] Interval
                                      Bitrate
                         Transfer
  5]
       0.00-10.01 sec 39.2 GBytes 33.6 Gbits/sec
                                                                       sender
       0.00-10.01 sec 39.2 GBytes 33.6 Gbits/sec
  5]
                                                                       receiver
iperf Done.
```

Server:

```
C:\Users\pavan\Downloads\iperf3.18_64\iperf3.18_64>iperf3 -s
Server listening on 5201 (test #1)
Accepted connection from 127.0.0.1, port 59737
   5] local 127.0.0.1 port 5201 connected to 127.0.0.1 port 59738
  ID] Interval
                         Transfer
                                      Bitrate
   5]
                  sec 3.97 GBytes 33.7 Gbits/sec
        0.00-1.01
   5]
        1.01-2.01 sec 3.90 GBytes
                                      33.5 Gbits/sec
                    sec
                         3.95 GBytes
                                      33.9 Gbits/sec
   5]
        2.01-3.01
   5]
        3.01-4.00
                    sec
                         3.90 GBytes
                                      33.9 Gbits/sec
                                      35.7 Gbits/sec
   5]
        4.00-5.00
                         4.15 GBytes
                    sec
   5]
                         3.91 GBytes
                                      33.4 Gbits/sec
        5.00-6.01
                    sec
   5]
        6.01-7.01
                         4.21 GBytes
                                      35.9 Gbits/sec
                    sec
   5]
        7.01-8.00
                         4.32 GBytes
                                      37.5 Gbits/sec
                    sec
   5]
        8.00-9.01
                         3.41 GBytes
                                      29.0 Gbits/sec
                    sec
   5]
        9.01-10.01
                         3.45 GBytes
                                      29.7 Gbits/sec
                    sec
                          128 KBytes
   5]
       10.01-10.01
                    sec
                                      3.31 Gbits/sec
                                      Bitrate
  ID] Interval
                         Transfer
        0.00-10.01 sec 39.2 GBytes 33.6 Gbits/sec
   5]
                                                                       receiver
```

UDP:

```
C:\Users\pavan\Downloads\iperf3.18_64\iperf3.18_64>iperf3 -c 127.0.0.1 -u -b 100M Connecting to host 127.0.0.1, port 5201
[ 5] local 127.0.0.1 port 62105 connected to 127.0.0.1 port 5201
  ID]
       Interval
                               Transfer
                                                                  Total Datagrams
                                              Bitrate
          0.00-1.00
                                              98.8 Mbits/sec
   5]
                        sec
                              11.8 MBytes
                                                                  190
    5]
          1.00-2.00
                              11.9 MBytes
                                              99.7 Mbits/sec
                                                                  190
                        sec
    5]
5]
          2.00-3.01
                                                                  193
                              12.1 MBytes
                                               100 Mbits/sec
                        sec
          3.01-4.01
                              11.9
                         sec
                                    MBytes
                                              99.7 Mbits/sec
                                                                  190
    5]
          4.01-5.01
                                               102 Mbits/sec
                        sec
                              12.1 MBytes
                                                                  193
    5]
5]
          5.01-6.01
                              11.8 MBytes
                                              98.3 Mbits/sec
                                                                  190
                        sec
          6.01-7.01
                               11.9
                                    MBytes
                                              99.9 Mbits/sec
                                                                  190
                        sec
    5]
          7.01-8.00
                                               100 Mbits/sec
                              11.9 MBytes
                                                                  190
                        sec
    5]
          8.00-9.01
                              12.1 MBytes
                                              99.9 Mbits/sec
                                                                  193
                         sec
    5]
          9.01-10.02
                        sec
                              12.0 MBytes
                                               100 Mbits/sec
                                                                  191
   ID]
                                              Bitrate
       Interval
                               Transfer
                                                                  Jitter
                                                                              Lost/Total Datagrams
                                                                              0/1910 (0%) sender
147/1910 (7.7%) receiver
          0.00-10.02
                                119 MBytes
                                              99.9 Mbits/sec
    5]
                        sec
                                                                  0.000 ms
          0.00-10.02
                                110 MBytes
    5]
                                              92.2 Mbits/sec
                                                                  0.154 ms
                        sec
iperf Done.
```

```
Server listening on 5201 (test #2)
Accepted connection from 127.0.0.1, port 59753
   5] local 127.0.0.1 port 5201 connected to 127.0.0.1 port 62105
  ID]
      Interval
                            Transfer
                                          Bitrate
                                                            Jitter
                                                                        Lost/Total Datagrams
  5]
        0.00-1.00
                            10.6 MBytes
                                          88.3 Mbits/sec
                                                                       20/189 (11%)
                      sec
                                                            0.120 ms
   5]
        1.00-2.00
                                          90.8 Mbits/sec
                                                            0.139 ms
                                                                        16/189 (8.5%)
                            10.8 MBytes
                      sec
                                                                       14/197 (7.1%)
10/187 (5.3%)
   5]
         2.00-3.01
                      sec
                            11.4 MBytes
                                          95.1 Mbits/sec
                                                            0.058 ms
                                          92.9 Mbits/sec
   5]
        3.01-4.01
                           11.1 MBytes
                                                            0.135 ms
                      sec
                                                                       10/193 (5.2%)
22/189 (12%)
19/191 (9.9%)
   5]
        4.01-5.01
                      sec
                            11.4 MBytes
                                          96.1 Mbits/sec
                                                            0.100 ms
                                          86.9 Mbits/sec
90.4 Mbits/sec
   5]
        5.01-6.01
                            10.4 MBytes
                                                            0.136 ms
                      sec
   5]
        6.01-7.01
                            10.7 MBytes
                                                            0.123 ms
                      sec
   5]
                            10.9 MBytes
         7.01-8.00
                      sec
                                          91.8 Mbits/sec
                                                            0.138 ms
                                                                        15/189 (7.9%)
                                          94.2 Mbits/sec
95.3 Mbits/sec
                                                                       12/194 (6.2%)
   5]
        8.00-9.01
                            11.4 MBytes
                                                            0.125 ms
                      sec
        9.01-10.02
                                                                       9/191 (4.7%)
   5]
                                                            0.151 ms
                            11.4 MBytes
                      sec
   5]
        10.02-10.02
                            64.0 KBytes
                                           523 Mbits/sec
                                                            0.154 ms
                                                                       0/1 (0%)
                      sec
  ID]
      Interval
                            Transfer
                                          Bitrate
                                                            Jitter
                                                                       Lost/Total Datagrams
         0.00-10.02
                             110 MBytes
                                          92.2 Mbits/sec
                                                            0.154 ms
                                                                       147/1910 (7.7%) receiver
                      sec
```

Uses **UDP** instead of TCP.

Sends data at 100 Mbps.

Useful for checking packet loss and jitter.

Bidirectional:

```
C:\Users\pavan\Downloads\iperf3.18_64\iperf3.18_64>iperf3 -c 127.0.0.1 --bidir
Connecting to host 127.0.0.1, port 5201
[ 5] local 127.0.0.1 port 59797 connected to 127.0.0.1 port 5201
   7] local 127.0.0.1 port 59798 connected to 127.0.0.1 port 5201
  ID][Role] Interval
                                               Bitrate
                                 Transfer
   5][TX-C]
               0.00-1.00
                            sec
                                 4.19 GBytes
                                               36.0 Gbits/sec
                           sec 2.75 GBytes
sec 4.16 GBytes
   7][RX-C]
               0.00-1.00
                                               23.6 Gbits/sec
   5][TX-C]
               1.00-2.01
                                               35.4 Gbits/sec
                                 2.87 GBytes
   7][RX-C]
               1.00-2.01
                                               24.4 Gbits/sec
                            sec
               2.01-3.01
   5][TX-C]
                                4.18 GBytes
                                               36.1 Gbits/sec
                            sec
   7][RX-C]
5][TX-C]
               2.01-3.01
                                 2.82 GBytes
                                               24.4 Gbits/sec
                            sec
                                 4.24 GBytes
                                               36.5 Gbits/sec
               3.01-4.00
                            sec
                                2.72 GBytes
4.21 GBytes
   7][RX-C]
               3.01-4.00
                            sec
                                               23.4 Gbits/sec
               4.00-5.00
   5][TX-C]
                                               36.3 Gbits/sec
                            sec
   7][RX-C]
               4.00-5.00
                                 2.74 GBytes
                                               23.6 Gbits/sec
                            sec
   5][TX-C]
               5.00-6.00
                                 4.13 GBytes
                                               35.4 Gbits/sec
                            sec
   7][RX-C]
               5.00-6.00
                            sec
                                 2.80 GBytes
                                               24.0 Gbits/sec
   5][TX-C]
               6.00-7.01
                            sec
                                4.07 GBytes
                                               34.8 Gbits/sec
   7][RX-C]
5][TX-C]
                                 2.85 GBytes
               6.00-7.01
                                               24.4 Gbits/sec
                            sec
               7.01-8.01
                                 4.11 GBytes
                                               35.0 Gbits/sec
                            sec
   7][RX-C]
               7.01-8.01
                                 2.91 GBytes
                                               24.8 Gbits/sec
                            sec
   5][TX-C]
               8.01-9.00
                            sec
                                 2.87 GBytes
                                               24.9 Gbits/sec
   7][RX-C]
               8.01-9.00
                                               21.2 Gbits/sec
                                 2.44 GBytes
                            sec
   5][TX-C]
               9.00-10.01
                            sec
                                 2.94 GBytes
                                               25.0 Gbits/sec
   7][RX-C]
               9.00-10.01
                                 2.92 GBytes
                                               24.8 Gbits/sec
                           sec
  ID][Role] Interval
                                               Bitrate
                                 Transfer
   5][TX-C]
               0.00-10.01
                            sec
                                 39.1 GBytes
                                               33.5 Gbits/sec
                                                                                  sender
   5][TX-C]
               0.00-10.01
                                 39.1 GBytes
                                               33.5 Gbits/sec
                           sec
                                                                                  receiver
   7][RX-C]
               0.00-10.01
                                 27.8 GBytes 23.9 Gbits/sec
                           sec
                                                                                  sender
```

```
Accepted connection from 127.0.0.1, port 59796
   5] local 127.0.0.1 port 5201 connected to 127.0.0.1 port 59797
   8] local 127.0.0.1 port 5201 connected to 127.0.0.1 port 59798
  ID][Role] Interval
                                                 Bitrate
                                   Transfer
   5][RX-S]
               0.00-1.00
                                 4.19 GBytes
                                                 36.0 Gbits/sec
                             sec
  8][TX-S]
5][RX-S]
                            sec 2.75 GBytes 23.6 Gbits/sec sec 4.16 GBytes 35.4 Gbits/sec
               0.00-1.00
               1.00-2.01
               1.00-2.01
   8][TX-S]
                             sec
                                  2.87 GBytes
                                                 24.4 Gbits/sec
                                  4.18 GBytes
2.82 GBytes
   5][RX-S]
               2.01-3.01
                                                 36.1 Gbits/sec
                             sec
               2.01-3.01
   8][TX-S]
                             sec
                                                 24.4 Gbits/sec
   5][RX-S]
               3.01-4.00
                                 4.24 GBytes
                                                 36.5 Gbits/sec
                             sec
  8][TX-S]
5][RX-S]
                                  2.72 GBytes
4.21 GBytes
                                                 23.4 Gbits/sec
               3.01-4.00
                             sec
               4.00-5.00
                             sec
                                                 36.3 Gbits/sec
                                 2.74 GBytes
4.13 GBytes
2.80 GBytes
   8][TX-S]
               4.00-5.00
                                                 23.6 Gbits/sec
                             sec
               5.00-6.00
   5][RX-S]
                                                 35.4 Gbits/sec
                             sec
   8][TX-S]
               5.00-6.00
                             sec
                                                 24.0 Gbits/sec
   5][RX-S]
               6.00-7.01
                                  4.07 GBytes
                                                 34.8 Gbits/sec
                             sec
  8][TX-S]
5][RX-S]
               6.00-7.01
                                  2.85 GBytes
                                                 24.4 Gbits/sec
                             sec
               7.01-8.01
                                  4.11 GBytes
                             sec
                                                 35.0 Gbits/sec
   8][TX-S]
               7.01-8.01
                                  2.91 GBytes
                                                 24.8 Gbits/sec
                             sec
                                  2.87 GBytes
2.44 GBytes
               8.01-9.00
   5][RX-S]
                                                 24.9 Gbits/sec
                             sec
   81[TX-S]
               8.01-9.00
                             sec
                                                 21.2 Gbits/sec
   5][RX-S]
               9.00-10.01
                                  2.94 GBytes
                             sec
                                                 25.0 Gbits/sec
  8][TX-S]
5][RX-S]
                                  2.92 GBytes
               9.00-10.01
                                                 24.8 Gbits/sec
                             sec
              10.01-10.01
                             sec
                                   256 KBytes
                                                 3.76 Gbits/sec
              10.01-10.01
                                                 15.1 Gbits/sec
   8][TX-S]
                                  1.00 MBytes
                             sec
  ID][Role] Interval
                                   Transfer
                                                 Bitrate
   5][RX-S]
               0.00-10.01 sec 39.1 GBytes 33.5 Gbits/sec
                                                                                     receiver
```

REVERSE MODE:

```
C:\Users\pavan\Downloads\iperf3.18_64\iperf3.18_64>iperf3 -c 127.0.0.1 -R
Connecting to host 127.0.0.1, port 5201
Reverse mode, remote host 127.0.0.1 is sending
    5] local 127.0.0.1 port 59834 connected to 127.0.0.1 port 5201
                                               Bitrate
  ID] Interval
                               Transfer
   5]
          0.00-1.00
                               4.03 GBytes
                                               34.6 Gbits/sec
                         sec
   5]
          1.00-2.00
                         sec 4.07 GBytes
                                               35.0 Gbits/sec
          2.00-3.00
    5]
                         sec 4.12 GBytes 35.4 Gbits/sec
          3.00-4.00
    51
                         sec 3.92 GBytes 33.7 Gbits/sec
    5]
          4.00-5.00
                         sec 4.06 GBytes 34.8 Gbits/sec
    5]
          5.00-6.00
                         sec 4.00 GBytes 34.4 Gbits/sec
                              3.88 GBytes 33.3 Gbits/sec
4.10 GBytes 35.3 Gbits/sec
2.79 GBytes 24.0 Gbits/sec
2.96 GBytes 25.4 Gbits/sec
                         sec
    5]
          6.00-7.00
    5]
          7.00-8.00
                         sec
          8.00-9.00
    5]
                         sec
    5]
          9.00-10.00 sec
  ID]
       Interval
                               Transfer
                                               Bitrate
          0.00-10.00 sec 37.9 GBytes 32.6 Gbits/sec 0.00-10.00 sec 37.9 GBytes 32.6 Gbits/sec
   5]
5]
                                                                                        sender
                                                                                        receiver
```

```
 \label{lem:c:span} $$C:\Users\panDownloads\perf3.18_64\leq18_64>iperf3.-c 127_0.0.1-R $$
Connecting to host 127.0.0.1, port 5201
Reverse mode, remote host 127.0.0.1 is sending
[ 5] local 127.0.0.1 port 59834 connected to 127.0.0.1 port 5201
  ID] Interval
                               Transfer
                                               Bitrate
   5]
          0.00-1.00
                                               34.6 Gbits/sec
                        sec 4.03 GBytes
   5]
          1.00-2.00
                        sec 4.07 GBytes
                                               35.0 Gbits/sec
    5]
                              4.12 GBytes
                                               35.4 Gbits/sec
          2.00-3.00
                        sec
                        sec
    5]
          3.00-4.00
                                               33.7 Gbits/sec
                              3.92 GBytes
          4.00-5.00
                         sec 4.06 GBytes 34.8 Gbits/sec
    5]
                        sec 4.00 GBytes 34.4 Gbits/sec
    5]
          5.00-6.00
    5]
          6.00-7.00
                        sec 3.88 GBytes 33.3 Gbits/sec
                        sec 4.10 GBytes 35.3 Gbits/sec
sec 2.79 GBytes 24.0 Gbits/sec
sec 2.96 GBytes 25.4 Gbits/sec
    5]
          7.00-8.00
   5]
          8.00-9.00
          9.00-10.00 sec
    5]
  ID]
                                               Bitrate
       Interval
                               Transfer
                               37.9 GBytes 32.6 Gbits/sec
   5]
          0.00-10.00
                       sec
                                                                                       sender
          0.00-10.00 sec 37.9 GBytes 32.6 Gbits/sec
                                                                                       receiver
```

MULTIPLE PARALLEL STREAMS:

```
C:\Users\pavan\Downloads\iperf3.18_64\iperf3.18_64>iperf3 -c 127.0.0.1 -P 5
Connecting to host 127.0.0.1, port 5201
   5] local 127.0.0.1 port 59843 connected to 127.0.0.1 port 5201
   7] local 127.0.0.1 port 59844 connected to 127.0.0.1 port 5201
   9] local 127.0.0.1 port 59845 connected to 127.0.0.1 port 5201
  11] local 127.0.0.1 port 59846 connected to 127.0.0.1 port 5201
  13] local 127.0.0.1 port 59847 connected to 127.0.0.1 port 5201
  ID] Interval
                                Transfer
                                                Bitrate
                       sec 2.85 GBytes 24.4 Gbits/sec
sec 2.93 GBytes 25.0 Gbits/sec
sec 2.66 GBytes 22.8 Gbits/sec
sec 2.77 GBytes 23.7 Gbits/sec
sec 2.80 GBytes 23.9 Gbits/sec
sec 14.0 GBytes 120 Gbits/sec
         0.00-1.00
   5]
   7]
         0.00-1.00
   9]
         0.00-1.00
  11]
         0.00-1.00
  13]
         0.00-1.00
SUM]
         0.00-1.00
   51
         1.00-2.00
                       sec 2.59 GBytes 22.3 Gbits/sec
                       sec 2.57 GBytes 22.1 Gbits/sec
   7]
         1.00-2.00
                       sec 2.51 GBytes 21.6 Gbits/sec
  9]
         1.00-2.00
  11]
         1.00-2.00
                       sec 2.52 GBytes 21.7 Gbits/sec
 13]
         1.00-2.00
                       sec 2.63 GBytes 22.6 Gbits/sec
[SUM]
         1.00-2.00
                         sec 12.8 GBytes 110 Gbits/sec
   5]
         2.00-3.00
                         sec 2.56 GBytes 21.9 Gbits/sec
                         sec 2.66 GBytes 22.8 Gbits/sec
  7]
         2.00-3.00
                         sec 2.60 GBytes 22.3 Gbits/sec
sec 2.35 GBytes 20.2 Gbits/sec
sec 2.68 GBytes 23.0 Gbits/sec
sec 12.8 GBytes 110 Gbits/sec
  9]
         2.00-3.00
  11]
         2.00-3.00
         2.00-3.00
 13]
[SUM]
         2.00-3.00
                       sec 2.49 GBytes 21.4 Gbits/sec
sec 2.42 GBytes 20.8 Gbits/sec
sec 2.82 GBytes 24.2 Gbits/sec
sec 2.48 GBytes 21.3 Gbits/sec
sec 2.54 GBytes 21.8 Gbits/sec
   5]
         3.00-4.00
   7]
         3.00-4.00
   9]
         3.00-4.00
  11]
         3.00-4.00
  13]
         3.00-4.00
SUM]
         3.00-4.00
                         sec 12.7 GBytes 109 Gbits/sec
   5]
         4.00-5.00
                         sec 2.60 GBytes 22.3 Gbits/sec
   7]
         4.00-5.00
                         sec 2.63 GBytes 22.6 Gbits/sec
  9]
                         sec 2.49 GBytes 21.4 Gbits/sec
         4.00-5.00
  11]
         4.00-5.00
                         sec 2.37 GBytes 20.3 Gbits/sec
 ID] Interval
                            Transfer
                                           Bitrate
        0.00-10.00 sec 25.6 GBytes 21.9 Gbits/sec 0.00-10.00 sec 25.6 GBytes 21.9 Gbits/sec 0.00-10.00 sec 25.5 GBytes 21.9 Gbits/sec
  5]
                                                                               sender
  5]
  7]
7]
                                                                                sender
        0.00-10.00 sec 25.5 GBytes 21.9 Gbits/sec
                                                                               receiver
  9]
        0.00-10.00 sec 25.7 GBytes 22.1 Gbits/sec
                     sec 25.7 GBytes 22.1 Gbits/sec
sec 24.9 GBytes 21.3 Gbits/sec
sec 24.9 GBytes 21.3 Gbits/sec
  9]
                                                                               receiver
        0.00-10.00
        0.00-10.00
0.00-10.00
 11]
                                                                               sender
 11]
                                                                               receiver
 137
        0.00-10.00
                      sec
                            25.3 GBytes 21.8 Gbits/sec
                                                                               sender
 13]
        0.00-10.00
                      sec 25.3 GBytes 21.8 Gbits/sec
                                                                               receiver
SUM]
        0.00-10.00
                                          109 Gbits/sec
                            127 GBytes
                                                                               sender
                      sec
SUMl
        0.00-10.00 sec 127 GBytes
                                          109 Gbits/sec
                                                                               receiver
```

```
Accepted connection from 127.0.0.1, port 59842
  5] local 127.0.0.1 port 5201 connected to 127.0.0.1 port 59843
  8] local 127.0.0.1 port 5201 connected to 127.0.0.1 port 59844
10] local 127.0.0.1 port 5201 connected to 127.0.0.1 port 59845
12] local 127.0.0.1 port 5201 connected to 127.0.0.1 port 59846
14] local 127.0.0.1 port 5201 connected to 127.0.0.1 port 59847
  ID] Interval
                                  Transfer Bitrate
          0.00-1.00
                                                  24.4 Gbits/sec
  5]
                           sec 2.85 GBytes
                          sec 2.93 GBytes 25.0 Gbits/sec
  8]
          0.00-1.00
          0.00-1.00
                          sec 2.66 GBytes 22.8 Gbits/sec
  10]
          0.00-1.00
                         sec 2.77 GBytes 23.7 Gbits/sec
  12]
                        sec 2.80 GBytes 23.9 Gbits/sec
[ 14]
          0.00-1.00
                          sec 14.0 GBytes 120 Gbits/sec
[SUM]
          0.00-1.00
          1.00-2.00 sec 2.59 GBytes 22.3 Gbits/sec
   5]
                        sec 2.57 GBytes 22.1 Gbits/sec
  8]
          1.00-2.00
          1.00-2.00 sec 2.51 GBytes 21.6 Gbits/sec
1.00-2.00 sec 2.52 GBytes 21.7 Gbits/sec
1.00-2.00 sec 2.63 GBytes 22.6 Gbits/sec
1.00-2.00 sec 12.8 GBytes 110 Gbits/sec
  10]
  12]
  14]
[SUM]
          2.00-3.00 sec 2.56 GBytes 21.9 Gbits/sec 2.00-3.00 sec 2.66 GBytes 22.8 Gbits/sec
  5]
  8]
                        sec 2.60 GBytes 22.3 Gbits/sec
          2.00-3.00
  10]
          2.00-3.00 sec 2.35 GBytes 20.2 Gbits/sec
  12]
          2.00-3.00 sec 2.68 GBytes 23.0 Gbits/sec
[ 14]
          2.00-3.00 sec 12.8 GBytes 110 Gbits/sec
[SUM]
  5]
          3.00-4.00 sec 2.49 GBytes 21.4 Gbits/sec
                        sec 2.42 GBytes 20.8 Gbits/sec
  8]
          3.00-4.00
  10]
          3.00-4.00
                           sec 2.82 GBytes 24.2 Gbits/sec
          3.00-4.00 sec 2.48 GBytes 21.3 Gbits/sec 3.00-4.00 sec 2.54 GBytes 21.8 Gbits/sec 3.00-4.00 sec 12.7 GBytes 109 Gbits/sec ------
  12]
  14]
[SUM]
          4.00-5.00 sec 2.60 GBytes 22.3 Gbits/sec 4.00-5.00 sec 2.63 GBytes 22.6 Gbits/sec
    5]
    8]
```