

## Pantheon Report

Generated at 2018-08-12 05:12:00 (UTC).

Data path: GCE Tokyo Ethernet (*remote*) → GCE Iowa Ethernet (*local*).

Repeated the test of 17 congestion control schemes 10 times.

Each test lasted for 30 seconds running 3 flows with 10-second interval between two flows.

NTP offsets were measured against `time.google.com` and have been applied to correct the timestamps in logs.

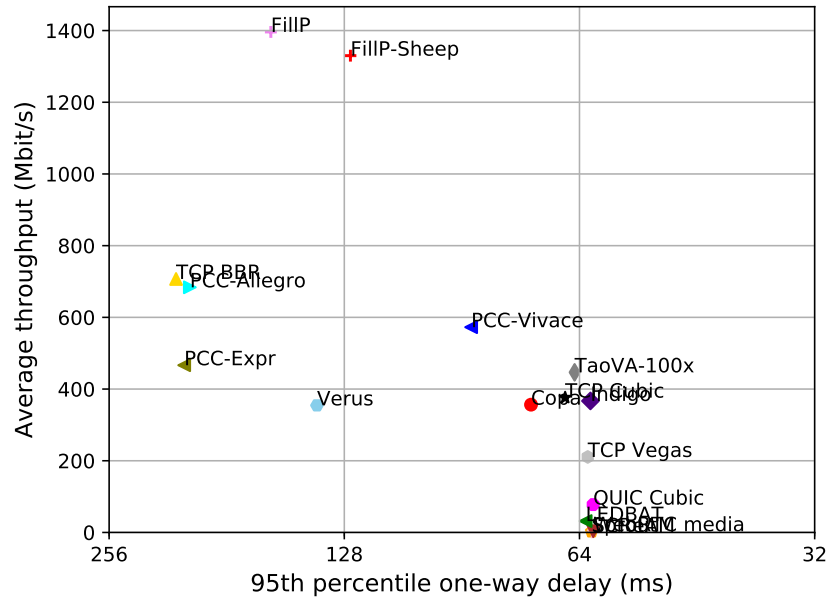
### System info:

```
Linux 4.15.0-1014-gcp
net.core.default_qdisc = fq_codel
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

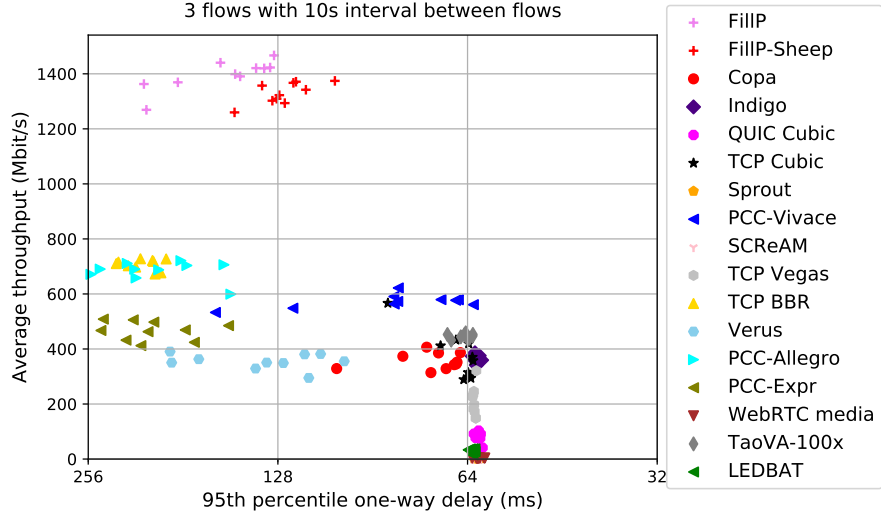
### Git summary:

```
branch: master @ 7719b900495aa706f8452ab7d4a94dd562e9296e
third_party/fillp @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/fillp-sheep @ daed0c84f98531712514b2231f43ec6901114ffe
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdfef58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ 6f038ed31259d366f9840f65b82cbe8f464b1b39
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
```

test from GCE Tokyo to GCE Iowa, 10 runs of 30s each per scheme  
 3 flows with 10s interval between flows (mean of all runs by scheme)



test from GCE Tokyo to GCE Iowa, 10 runs of 30s each per scheme  
 3 flows with 10s interval between flows



| scheme       | # runs | mean avg tput (Mbit/s) |        |        | mean 95th-%ile delay (ms) |        |        | mean loss rate (%) |        |        |
|--------------|--------|------------------------|--------|--------|---------------------------|--------|--------|--------------------|--------|--------|
|              |        | flow 1                 | flow 2 | flow 3 | flow 1                    | flow 2 | flow 3 | flow 1             | flow 2 | flow 3 |
| TCP BBR      | 10     | 421.29                 | 351.53 | 158.19 | 208.84                    | 209.32 | 151.68 | 3.88               | 4.33   | 7.47   |
| Copa         | 10     | 192.66                 | 157.63 | 179.13 | 65.50                     | 75.46  | 81.24  | 0.37               | 0.46   | 1.24   |
| TCP Cubic    | 10     | 267.36                 | 112.71 | 102.49 | 68.28                     | 64.83  | 66.24  | 0.64               | 1.93   | 3.02   |
| FillP        | 10     | 734.75                 | 701.11 | 595.60 | 150.67                    | 158.21 | 147.90 | 3.78               | 3.36   | 3.71   |
| FillP-Sheep  | 10     | 709.12                 | 660.12 | 555.73 | 126.87                    | 123.07 | 106.86 | 1.03               | 1.23   | 1.61   |
| Indigo       | 10     | 196.85                 | 179.32 | 155.19 | 61.85                     | 62.10  | 62.10  | 0.41               | 0.62   | 1.49   |
| LEDBAT       | 10     | 21.07                  | 12.82  | 6.80   | 62.89                     | 62.78  | 62.49  | 0.88               | 1.48   | 2.73   |
| PCC-Allegro  | 10     | 503.37                 | 251.51 | 41.51  | 207.60                    | 144.43 | 129.20 | 5.44               | 2.12   | 2.27   |
| PCC-Expr     | 10     | 286.67                 | 222.43 | 98.42  | 201.55                    | 150.17 | 71.75  | 3.55               | 2.28   | 1.66   |
| QUIC Cubic   | 10     | 41.79                  | 41.84  | 24.21  | 61.46                     | 61.43  | 61.36  | 0.51               | 1.16   | 1.32   |
| SCReAM       | 10     | 0.22                   | 0.22   | 0.22   | 61.66                     | 61.50  | 61.40  | 0.38               | 0.61   | 1.12   |
| Sprout       | 10     | 0.85                   | 0.83   | 2.10   | 61.76                     | 61.66  | 61.76  | 0.43               | 0.55   | 0.97   |
| TaoVA-100x   | 10     | 229.91                 | 223.10 | 207.85 | 63.93                     | 65.27  | 67.26  | 0.41               | 0.64   | 1.34   |
| TCP Vegas    | 10     | 110.22                 | 95.20  | 112.78 | 62.25                     | 62.18  | 63.73  | 0.43               | 0.66   | 1.75   |
| Verus        | 10     | 193.77                 | 179.23 | 128.39 | 134.91                    | 129.83 | 130.02 | 1.25               | 0.97   | 2.76   |
| PCC-Vivace   | 10     | 340.75                 | 290.00 | 120.58 | 82.25                     | 113.15 | 62.21  | 0.40               | 0.84   | 1.71   |
| WebRTC media | 10     | 1.86                   | 1.18   | 0.47   | 61.48                     | 61.36  | 61.38  | 0.51               | 0.80   | 1.32   |

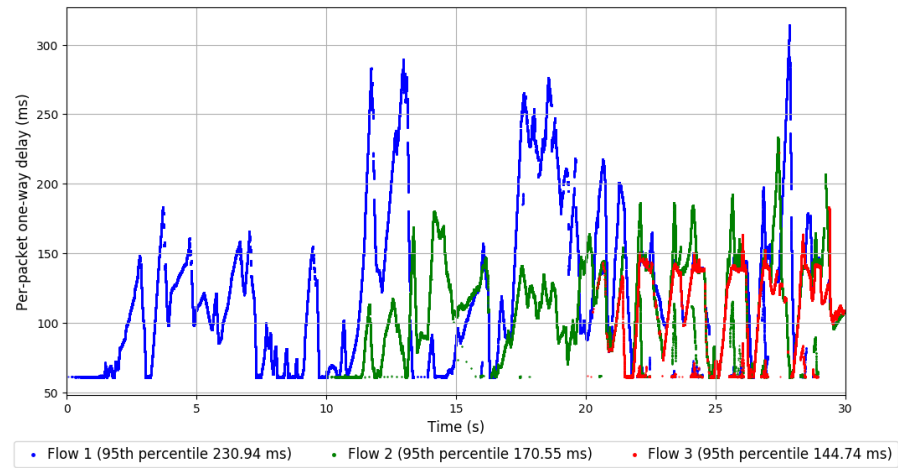
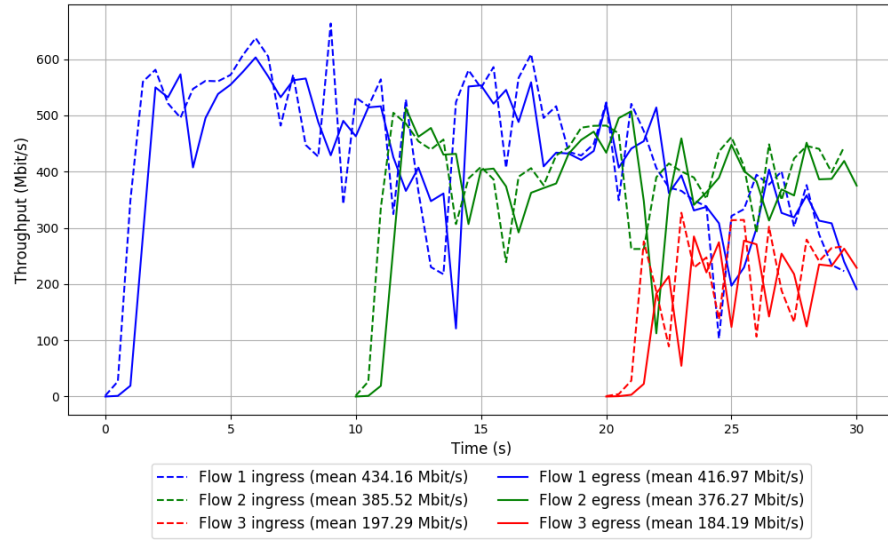
Run 1: Statistics of TCP BBR

Start at: 2018-08-11 20:54:05  
End at: 2018-08-11 20:54:35  
Local clock offset: 0.127 ms  
Remote clock offset: -0.081 ms

# Below is generated by plot.py at 2018-08-12 01:51:38  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 727.94 Mbit/s  
95th percentile per-packet one-way delay: 211.524 ms  
Loss rate: 4.20%  
-- Flow 1:  
Average throughput: 416.97 Mbit/s  
95th percentile per-packet one-way delay: 230.941 ms  
Loss rate: 4.35%  
-- Flow 2:  
Average throughput: 376.27 Mbit/s  
95th percentile per-packet one-way delay: 170.546 ms  
Loss rate: 3.01%  
-- Flow 3:  
Average throughput: 184.19 Mbit/s  
95th percentile per-packet one-way delay: 144.737 ms  
Loss rate: 7.80%



# Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-08-11 21:20:43

End at: 2018-08-11 21:21:13

Local clock offset: 0.089 ms

Remote clock offset: 1.113 ms

# Below is generated by plot.py at 2018-08-12 01:51:38

# Datalink statistics

-- Total of 3 flows:

Average throughput: 672.53 Mbit/s

95th percentile per-packet one-way delay: 200.485 ms

Loss rate: 5.24%

-- Flow 1:

Average throughput: 426.56 Mbit/s

95th percentile per-packet one-way delay: 202.160 ms

Loss rate: 5.18%

-- Flow 2:

Average throughput: 289.35 Mbit/s

95th percentile per-packet one-way delay: 200.796 ms

Loss rate: 4.50%

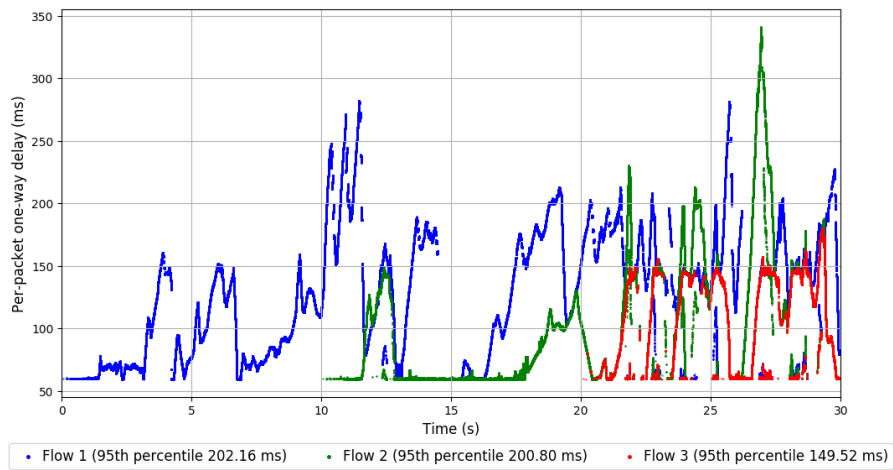
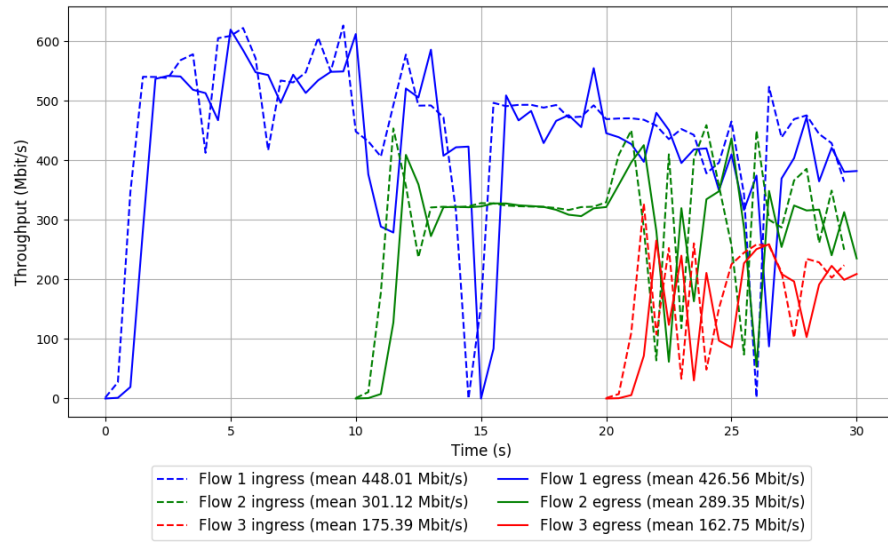
-- Flow 3:

Average throughput: 162.75 Mbit/s

95th percentile per-packet one-way delay: 149.521 ms

Loss rate: 8.35%

## Run 2: Report of TCP BBR — Data Link

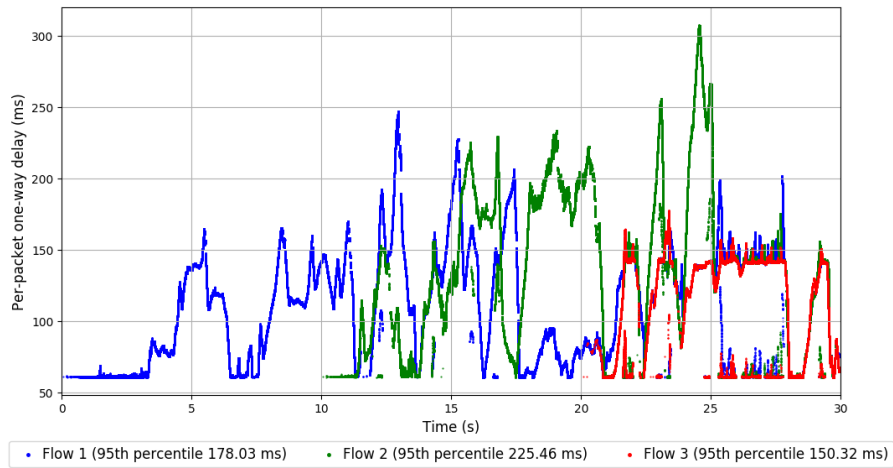
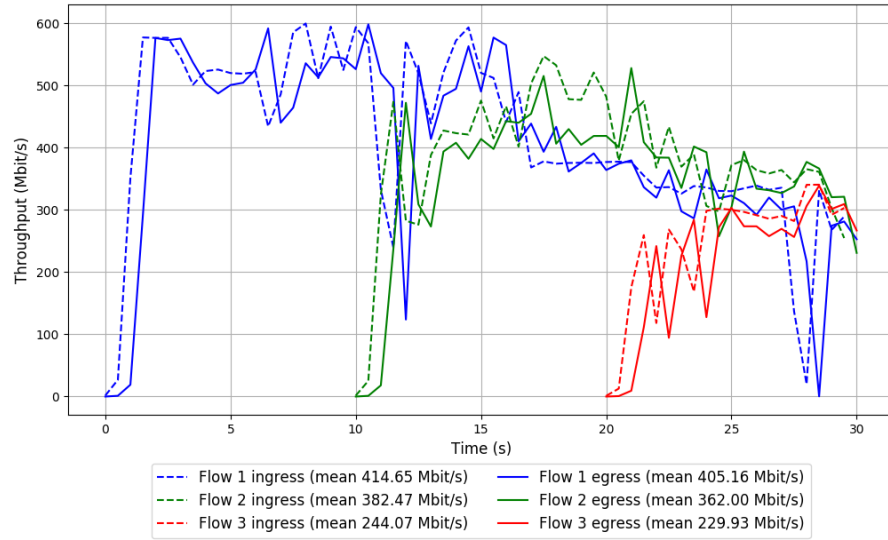


Run 3: Statistics of TCP BBR

Start at: 2018-08-11 21:47:29  
End at: 2018-08-11 21:47:59  
Local clock offset: -0.126 ms  
Remote clock offset: -0.088 ms

# Below is generated by plot.py at 2018-08-12 01:51:38  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 721.58 Mbit/s  
95th percentile per-packet one-way delay: 202.402 ms  
Loss rate: 4.25%  
-- Flow 1:  
Average throughput: 405.16 Mbit/s  
95th percentile per-packet one-way delay: 178.025 ms  
Loss rate: 2.69%  
-- Flow 2:  
Average throughput: 362.00 Mbit/s  
95th percentile per-packet one-way delay: 225.462 ms  
Loss rate: 5.93%  
-- Flow 3:  
Average throughput: 229.93 Mbit/s  
95th percentile per-packet one-way delay: 150.323 ms  
Loss rate: 6.97%

### Run 3: Report of TCP BBR — Data Link

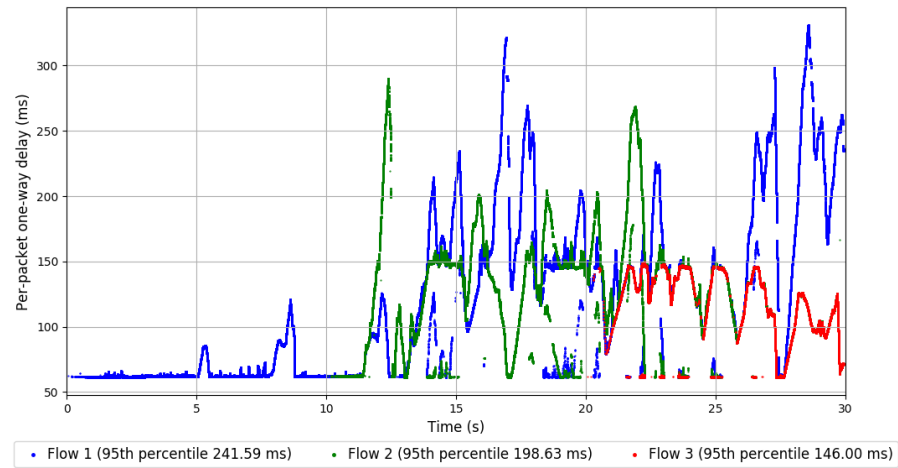
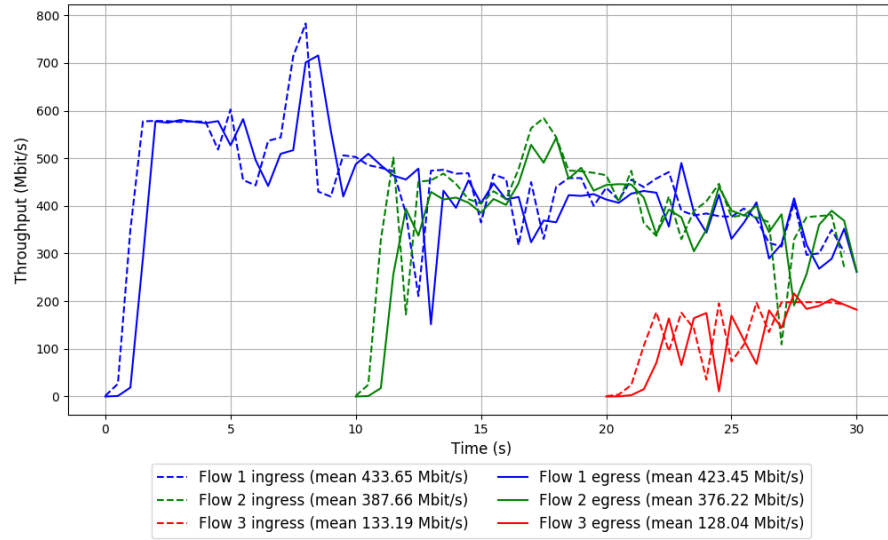


Run 4: Statistics of TCP BBR

Start at: 2018-08-11 22:14:22  
End at: 2018-08-11 22:14:52  
Local clock offset: -0.041 ms  
Remote clock offset: -0.689 ms

# Below is generated by plot.py at 2018-08-12 01:51:38  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 715.78 Mbit/s  
95th percentile per-packet one-way delay: 229.249 ms  
Loss rate: 3.17%  
-- Flow 1:  
Average throughput: 423.45 Mbit/s  
95th percentile per-packet one-way delay: 241.589 ms  
Loss rate: 2.75%  
-- Flow 2:  
Average throughput: 376.22 Mbit/s  
95th percentile per-packet one-way delay: 198.634 ms  
Loss rate: 3.55%  
-- Flow 3:  
Average throughput: 128.04 Mbit/s  
95th percentile per-packet one-way delay: 145.995 ms  
Loss rate: 5.05%

#### Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-08-11 22:41:20

End at: 2018-08-11 22:41:50

Local clock offset: -0.004 ms

Remote clock offset: -0.26 ms

# Below is generated by plot.py at 2018-08-12 01:51:38

# Datalink statistics

-- Total of 3 flows:

Average throughput: 718.46 Mbit/s

95th percentile per-packet one-way delay: 201.760 ms

Loss rate: 3.08%

-- Flow 1:

Average throughput: 442.79 Mbit/s

95th percentile per-packet one-way delay: 176.027 ms

Loss rate: 2.72%

-- Flow 2:

Average throughput: 361.28 Mbit/s

95th percentile per-packet one-way delay: 218.631 ms

Loss rate: 3.56%

-- Flow 3:

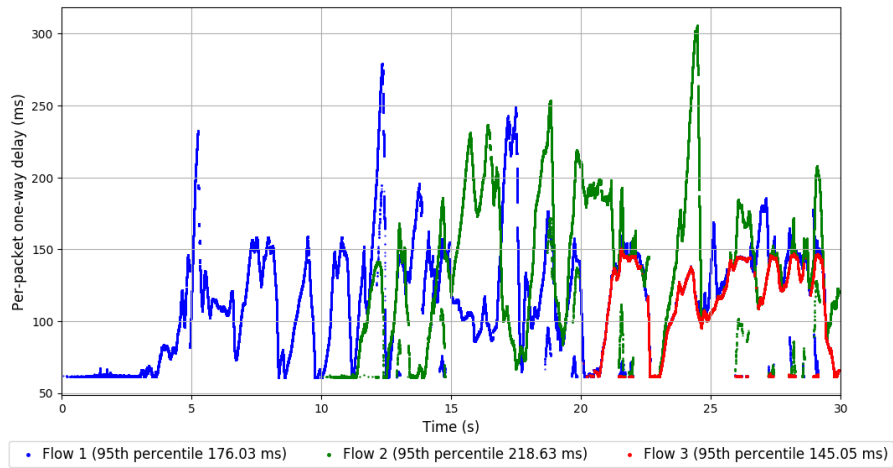
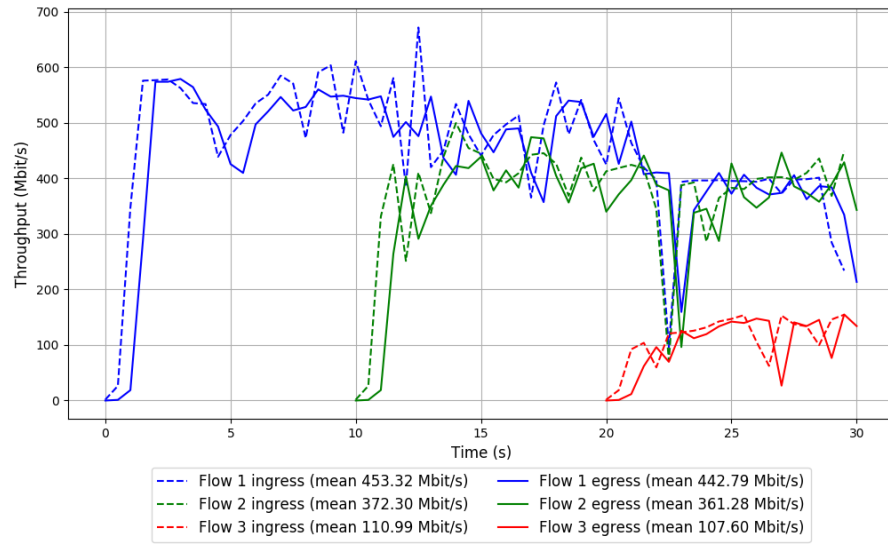
Average throughput: 107.60 Mbit/s

95th percentile per-packet one-way delay: 145.053 ms

Loss rate: 4.34%



# Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-08-11 23:08:19

End at: 2018-08-11 23:08:49

Local clock offset: -0.065 ms

Remote clock offset: 0.214 ms

# Below is generated by plot.py at 2018-08-12 01:51:38

# Datalink statistics

-- Total of 3 flows:

Average throughput: 727.27 Mbit/s

95th percentile per-packet one-way delay: 192.541 ms

Loss rate: 3.95%

-- Flow 1:

Average throughput: 416.62 Mbit/s

95th percentile per-packet one-way delay: 184.643 ms

Loss rate: 2.75%

-- Flow 2:

Average throughput: 340.26 Mbit/s

95th percentile per-packet one-way delay: 233.925 ms

Loss rate: 4.73%

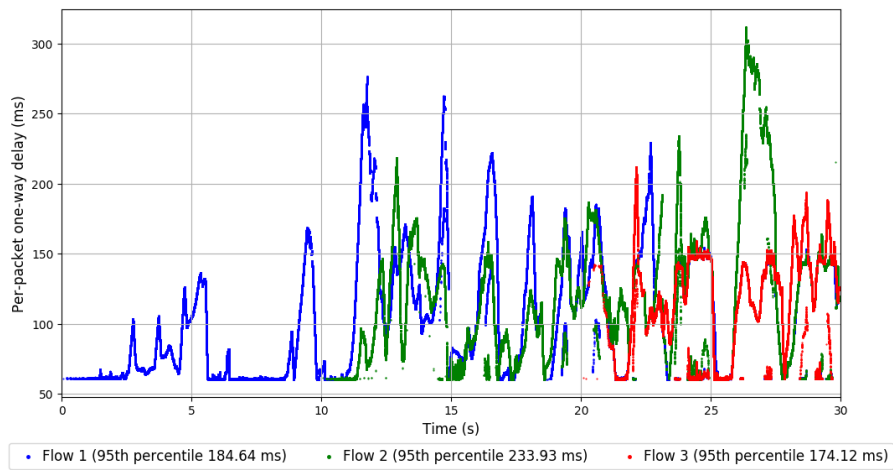
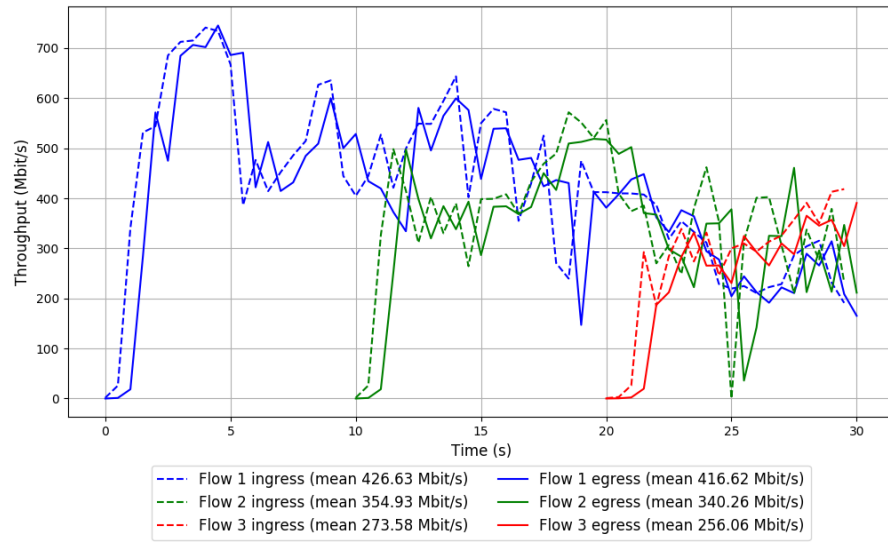
-- Flow 3:

Average throughput: 256.06 Mbit/s

95th percentile per-packet one-way delay: 174.121 ms

Loss rate: 7.56%

## Run 6: Report of TCP BBR — Data Link

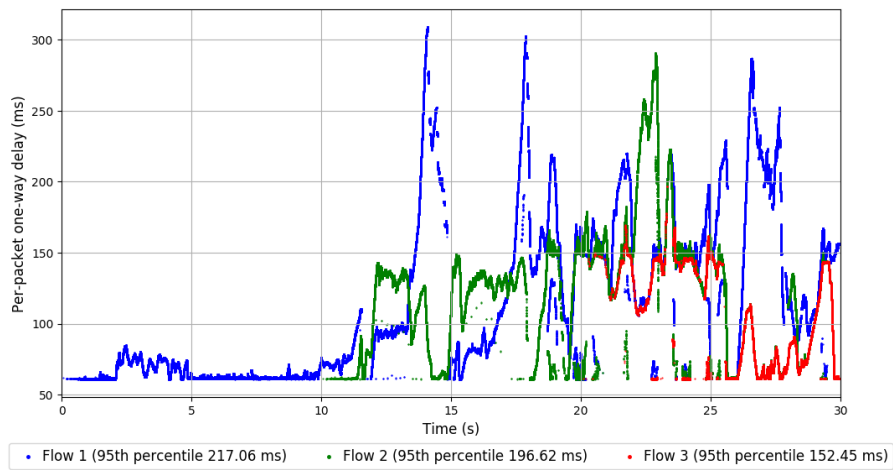
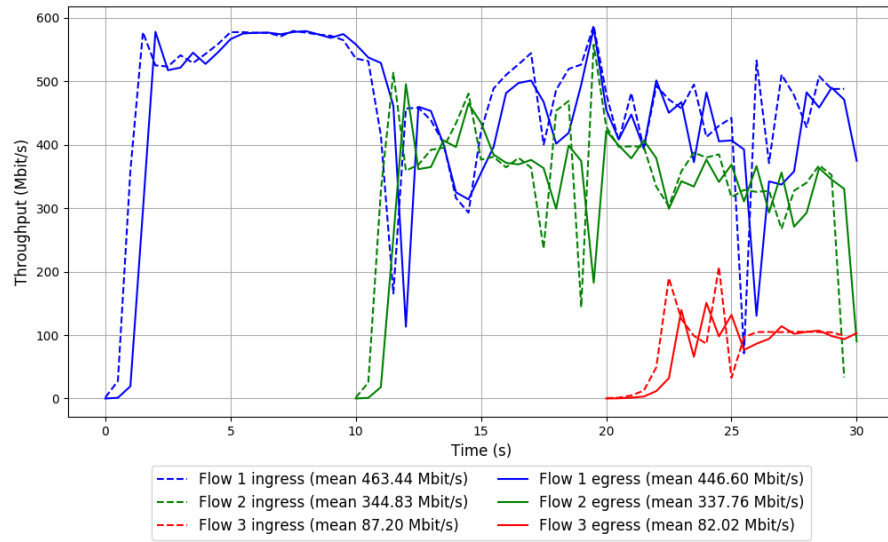


Run 7: Statistics of TCP BBR

Start at: 2018-08-11 23:35:10  
End at: 2018-08-11 23:35:40  
Local clock offset: -0.012 ms  
Remote clock offset: -0.036 ms

# Below is generated by plot.py at 2018-08-12 01:51:38  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 697.69 Mbit/s  
95th percentile per-packet one-way delay: 215.277 ms  
Loss rate: 3.78%  
-- Flow 1:  
Average throughput: 446.60 Mbit/s  
95th percentile per-packet one-way delay: 217.057 ms  
Loss rate: 4.03%  
-- Flow 2:  
Average throughput: 337.76 Mbit/s  
95th percentile per-packet one-way delay: 196.624 ms  
Loss rate: 2.85%  
-- Flow 3:  
Average throughput: 82.02 Mbit/s  
95th percentile per-packet one-way delay: 152.446 ms  
Loss rate: 7.10%

# Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-08-12 00:01:56

End at: 2018-08-12 00:02:26

Local clock offset: -0.056 ms

Remote clock offset: 0.747 ms

# Below is generated by plot.py at 2018-08-12 01:51:38

# Datalink statistics

-- Total of 3 flows:

Average throughput: 702.50 Mbit/s

95th percentile per-packet one-way delay: 221.114 ms

Loss rate: 5.80%

-- Flow 1:

Average throughput: 399.52 Mbit/s

95th percentile per-packet one-way delay: 222.851 ms

Loss rate: 6.05%

-- Flow 2:

Average throughput: 331.09 Mbit/s

95th percentile per-packet one-way delay: 223.783 ms

Loss rate: 4.14%

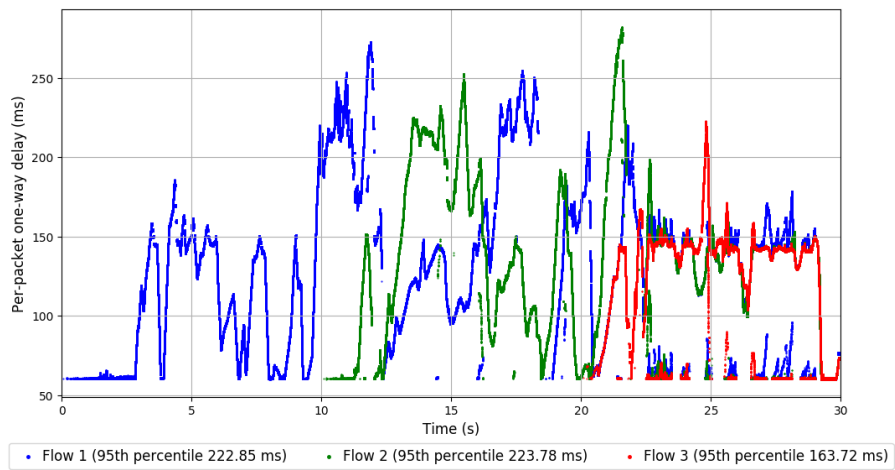
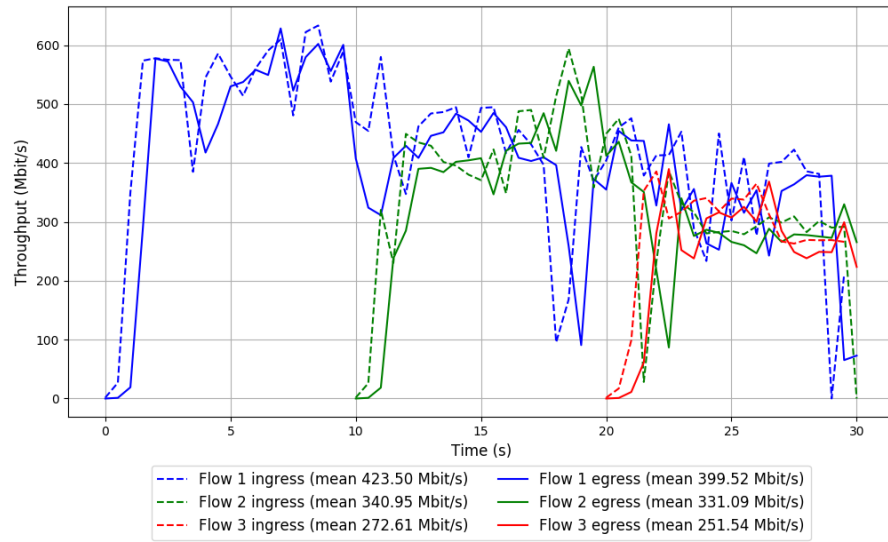
-- Flow 3:

Average throughput: 251.54 Mbit/s

95th percentile per-packet one-way delay: 163.723 ms

Loss rate: 8.86%

# Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-08-12 00:28:47

End at: 2018-08-12 00:29:17

Local clock offset: -0.045 ms

Remote clock offset: -0.12 ms

# Below is generated by plot.py at 2018-08-12 02:03:03

# Datalink statistics

-- Total of 3 flows:

Average throughput: 676.74 Mbit/s

95th percentile per-packet one-way delay: 196.292 ms

Loss rate: 5.72%

-- Flow 1:

Average throughput: 399.92 Mbit/s

95th percentile per-packet one-way delay: 199.844 ms

Loss rate: 4.69%

-- Flow 2:

Average throughput: 355.42 Mbit/s

95th percentile per-packet one-way delay: 197.272 ms

Loss rate: 5.95%

-- Flow 3:

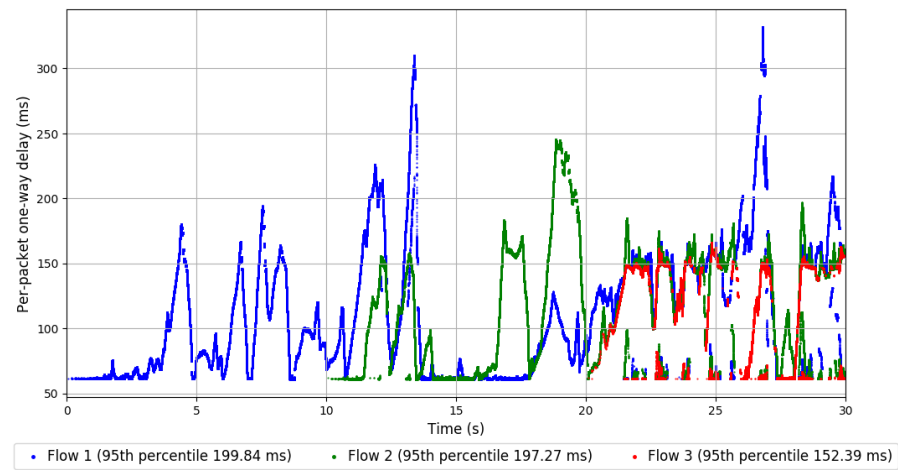
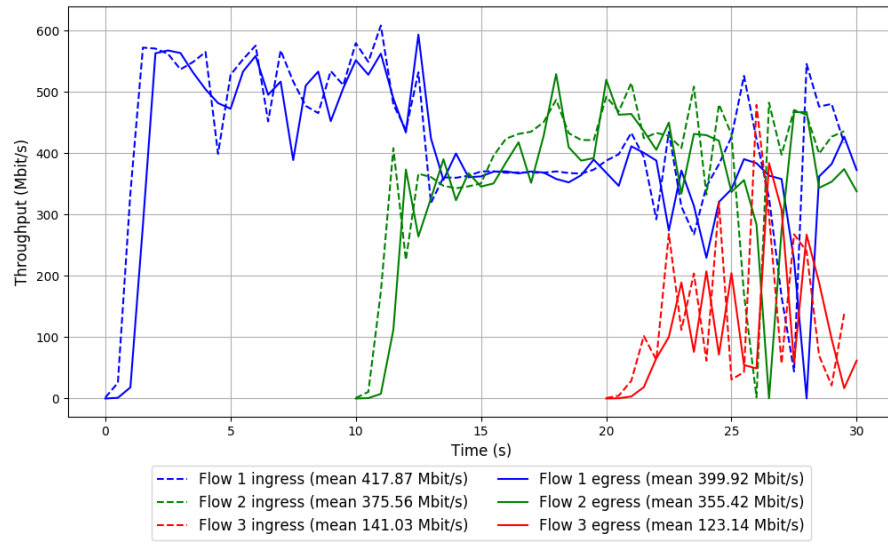
Average throughput: 123.14 Mbit/s

95th percentile per-packet one-way delay: 152.392 ms

Loss rate: 13.76%



# Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-08-12 00:55:21

End at: 2018-08-12 00:55:51

Local clock offset: -0.074 ms

Remote clock offset: 0.098 ms

# Below is generated by plot.py at 2018-08-12 02:03:56

# Datalink statistics

-- Total of 3 flows:

Average throughput: 710.34 Mbit/s

95th percentile per-packet one-way delay: 231.017 ms

Loss rate: 4.20%

-- Flow 1:

Average throughput: 435.35 Mbit/s

95th percentile per-packet one-way delay: 235.232 ms

Loss rate: 3.63%

-- Flow 2:

Average throughput: 385.69 Mbit/s

95th percentile per-packet one-way delay: 227.576 ms

Loss rate: 5.08%

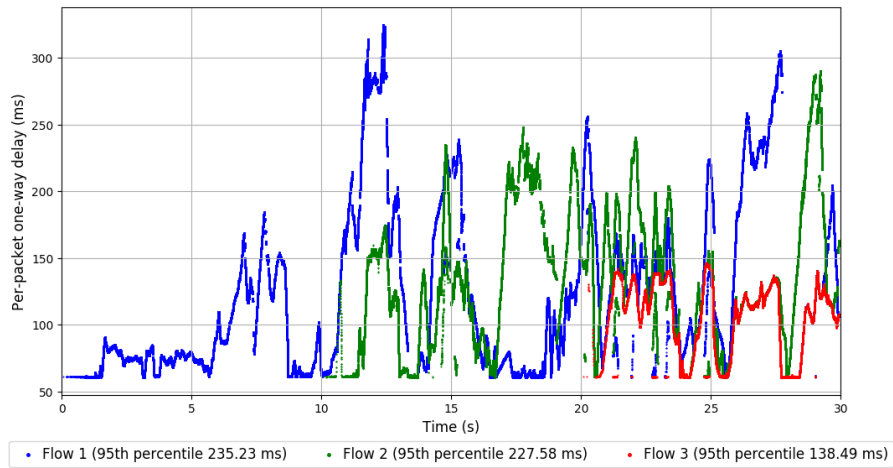
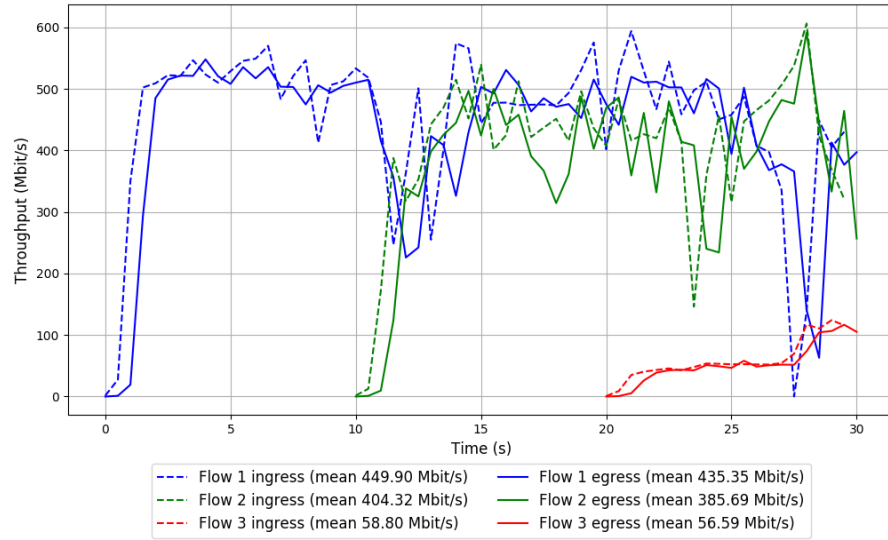
-- Flow 3:

Average throughput: 56.59 Mbit/s

95th percentile per-packet one-way delay: 138.487 ms

Loss rate: 4.94%

# Run 10: Report of TCP BBR — Data Link

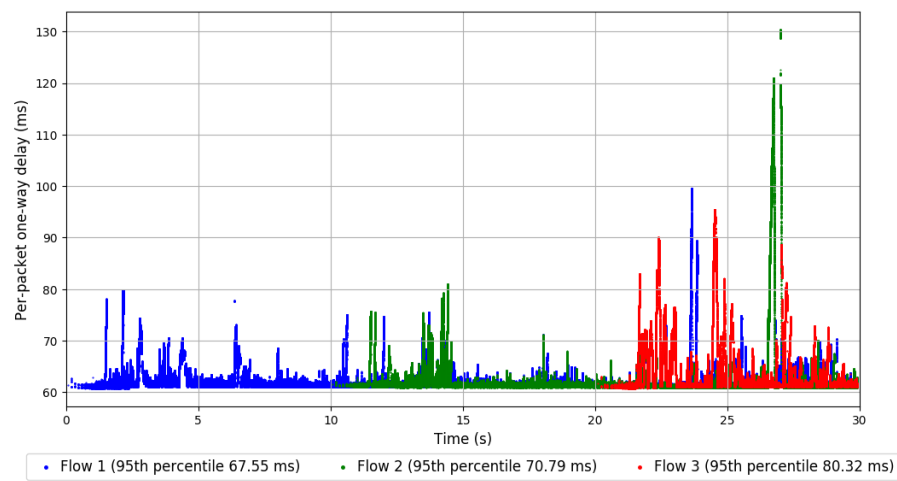
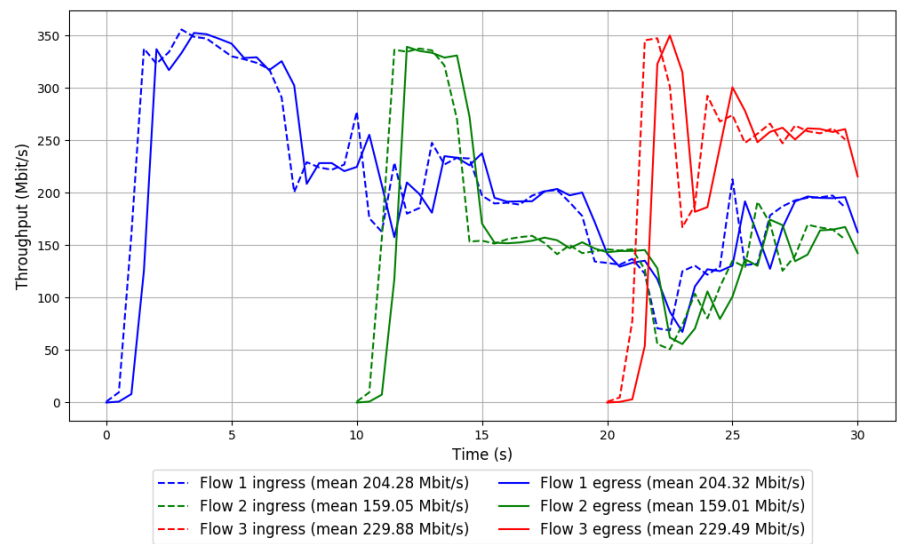


Run 1: Statistics of Copa

Start at: 2018-08-11 20:47:32  
End at: 2018-08-11 20:48:02  
Local clock offset: 0.056 ms  
Remote clock offset: -0.231 ms

# Below is generated by plot.py at 2018-08-12 02:03:56  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 385.56 Mbit/s  
95th percentile per-packet one-way delay: 71.163 ms  
Loss rate: 0.66%  
-- Flow 1:  
Average throughput: 204.32 Mbit/s  
95th percentile per-packet one-way delay: 67.552 ms  
Loss rate: 0.39%  
-- Flow 2:  
Average throughput: 159.01 Mbit/s  
95th percentile per-packet one-way delay: 70.789 ms  
Loss rate: 0.64%  
-- Flow 3:  
Average throughput: 229.49 Mbit/s  
95th percentile per-packet one-way delay: 80.323 ms  
Loss rate: 1.40%

Run 1: Report of Copa — Data Link

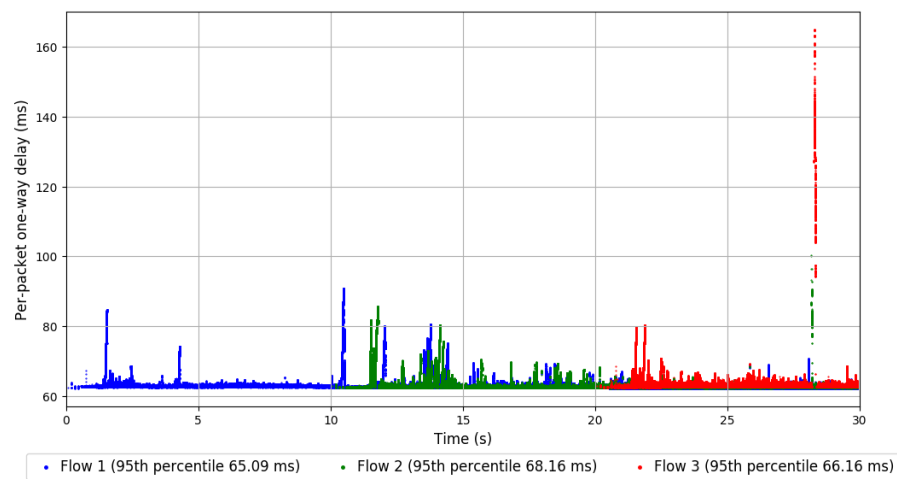
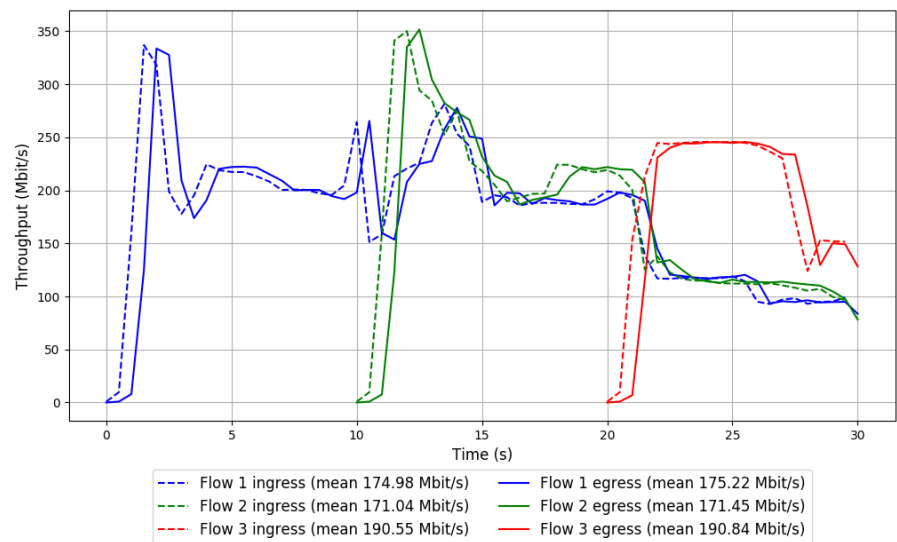


Run 2: Statistics of Copa

Start at: 2018-08-11 21:14:14  
End at: 2018-08-11 21:14:44  
Local clock offset: 0.049 ms  
Remote clock offset: -1.536 ms

# Below is generated by plot.py at 2018-08-12 02:03:56  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 352.11 Mbit/s  
95th percentile per-packet one-way delay: 66.503 ms  
Loss rate: 0.45%  
-- Flow 1:  
Average throughput: 175.22 Mbit/s  
95th percentile per-packet one-way delay: 65.086 ms  
Loss rate: 0.27%  
-- Flow 2:  
Average throughput: 171.45 Mbit/s  
95th percentile per-packet one-way delay: 68.159 ms  
Loss rate: 0.37%  
-- Flow 3:  
Average throughput: 190.84 Mbit/s  
95th percentile per-packet one-way delay: 66.160 ms  
Loss rate: 1.08%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-08-11 21:40:55

End at: 2018-08-11 21:41:25

Local clock offset: -0.1 ms

Remote clock offset: 0.177 ms

# Below is generated by plot.py at 2018-08-12 02:03:56

# Datalink statistics

-- Total of 3 flows:

Average throughput: 328.83 Mbit/s

95th percentile per-packet one-way delay: 103.258 ms

Loss rate: 0.48%

-- Flow 1:

Average throughput: 179.12 Mbit/s

95th percentile per-packet one-way delay: 62.626 ms

Loss rate: 0.24%

-- Flow 2:

Average throughput: 142.52 Mbit/s

95th percentile per-packet one-way delay: 117.240 ms

Loss rate: 0.43%

-- Flow 3:

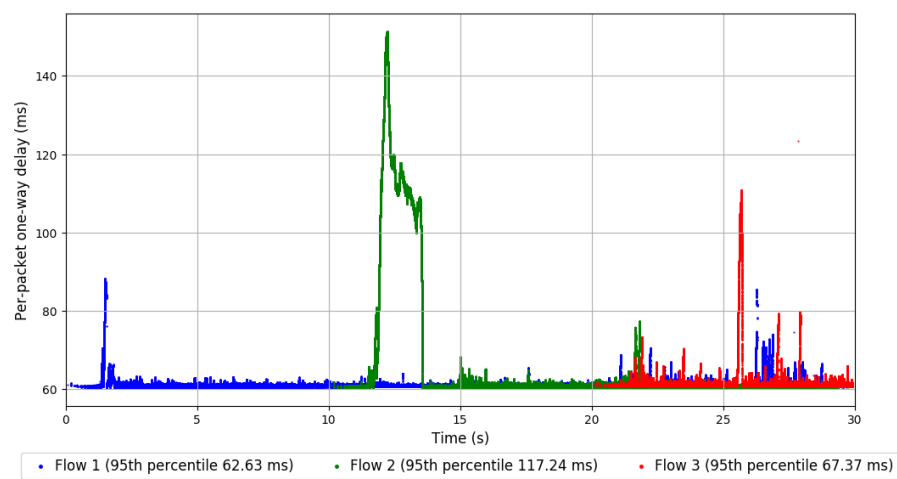
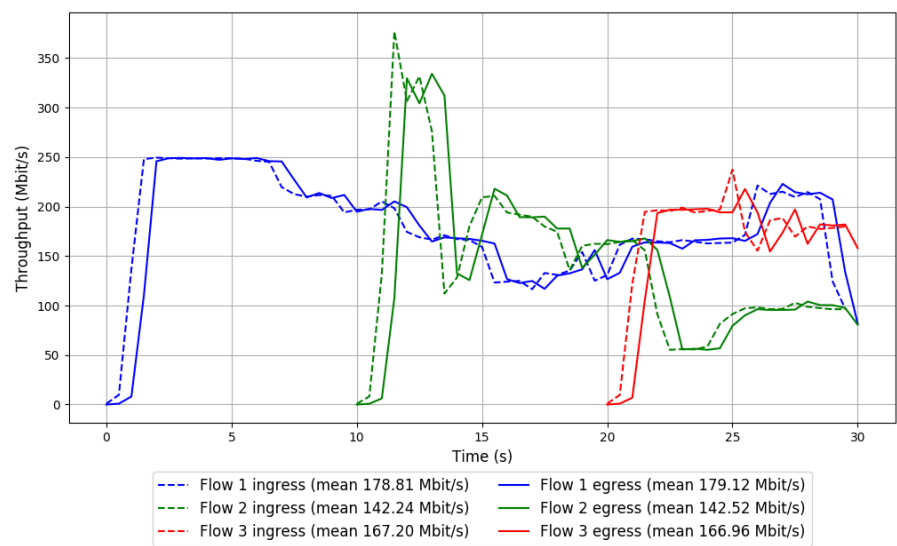
Average throughput: 166.96 Mbit/s

95th percentile per-packet one-way delay: 67.368 ms

Loss rate: 1.37%



Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-08-11 22:07:34

End at: 2018-08-11 22:08:04

Local clock offset: -0.073 ms

Remote clock offset: 0.129 ms

# Below is generated by plot.py at 2018-08-12 02:03:56

# Datalink statistics

-- Total of 3 flows:

Average throughput: 343.03 Mbit/s

95th percentile per-packet one-way delay: 67.192 ms

Loss rate: 0.52%

-- Flow 1:

Average throughput: 153.61 Mbit/s

95th percentile per-packet one-way delay: 62.580 ms

Loss rate: 0.34%

-- Flow 2:

Average throughput: 177.55 Mbit/s

95th percentile per-packet one-way delay: 71.989 ms

Loss rate: 0.25%

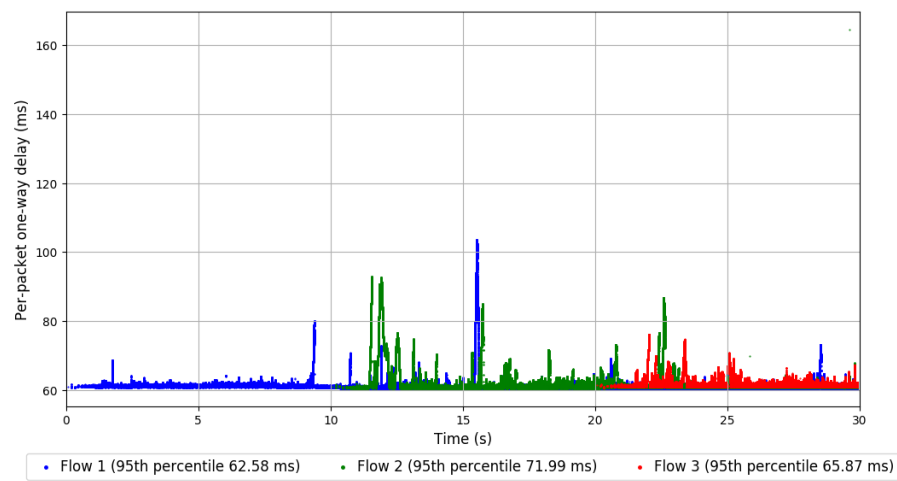
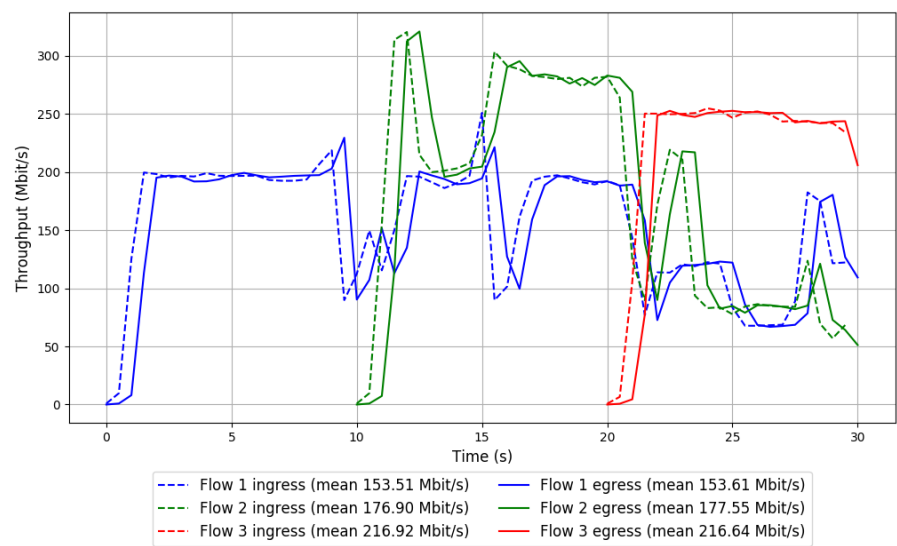
-- Flow 3:

Average throughput: 216.64 Mbit/s

95th percentile per-packet one-way delay: 65.871 ms

Loss rate: 1.36%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-08-11 22:34:41

End at: 2018-08-11 22:35:11

Local clock offset: -0.024 ms

Remote clock offset: 0.034 ms

# Below is generated by plot.py at 2018-08-12 02:03:56

# Datalink statistics

-- Total of 3 flows:

Average throughput: 373.49 Mbit/s

95th percentile per-packet one-way delay: 81.071 ms

Loss rate: 0.54%

-- Flow 1:

Average throughput: 196.34 Mbit/s

95th percentile per-packet one-way delay: 65.837 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 191.76 Mbit/s

95th percentile per-packet one-way delay: 86.853 ms

Loss rate: 0.43%

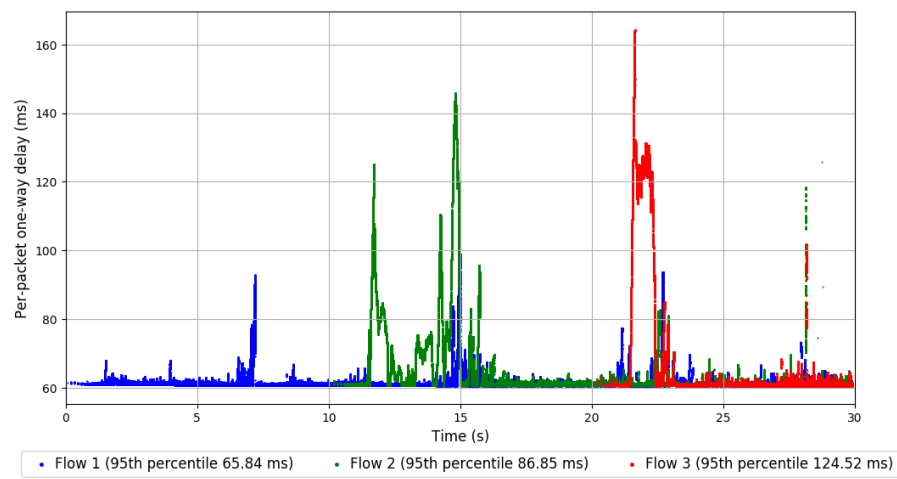
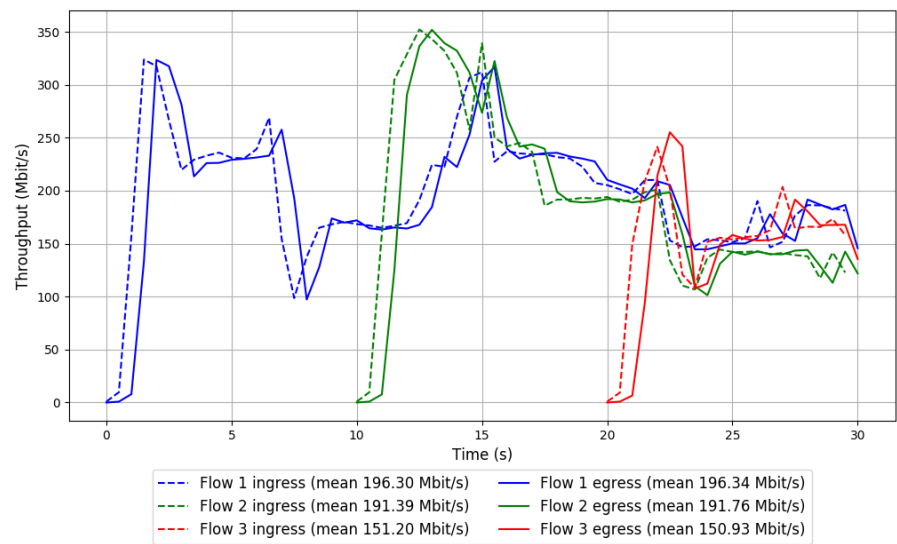
-- Flow 3:

Average throughput: 150.93 Mbit/s

95th percentile per-packet one-way delay: 124.518 ms

Loss rate: 1.41%

Run 5: Report of Copa — Data Link

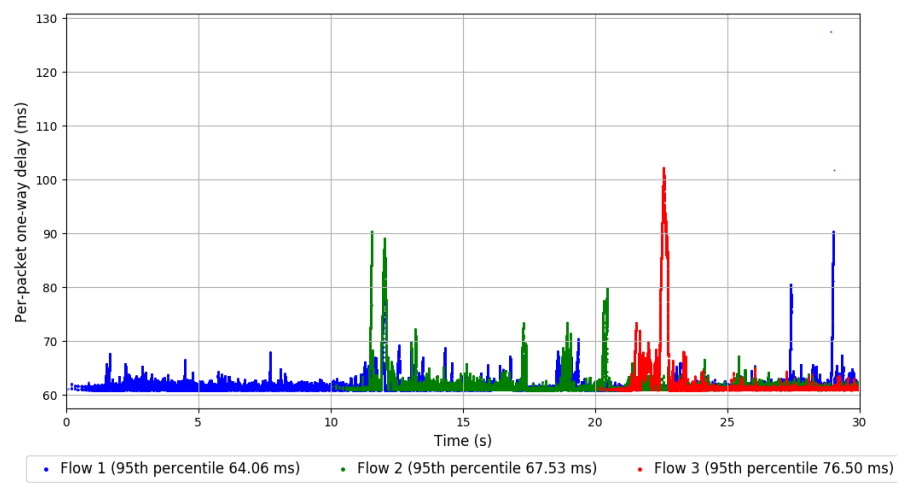
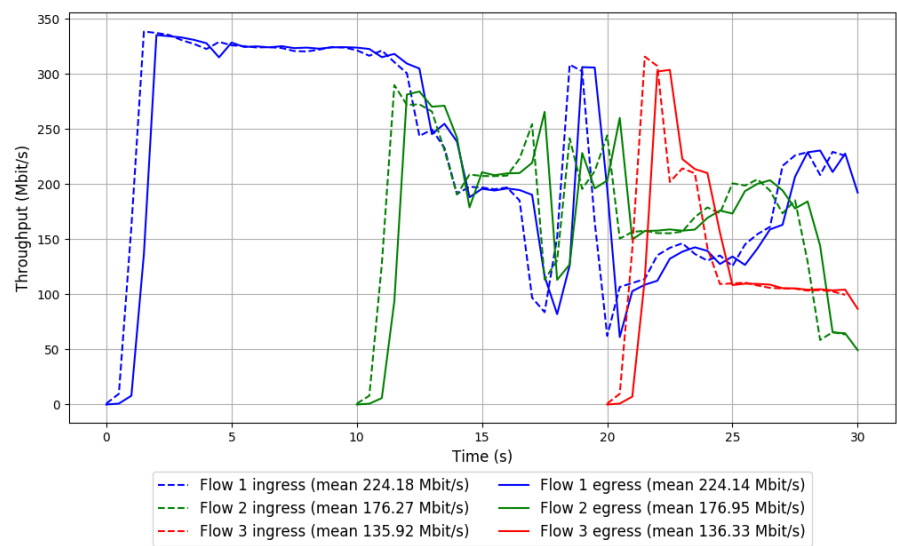


Run 6: Statistics of Copa

Start at: 2018-08-11 23:01:41  
End at: 2018-08-11 23:02:11  
Local clock offset: -0.042 ms  
Remote clock offset: -0.182 ms

# Below is generated by plot.py at 2018-08-12 02:04:23  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 386.60 Mbit/s  
95th percentile per-packet one-way delay: 65.698 ms  
Loss rate: 0.43%  
-- Flow 1:  
Average throughput: 224.14 Mbit/s  
95th percentile per-packet one-way delay: 64.055 ms  
Loss rate: 0.43%  
-- Flow 2:  
Average throughput: 176.95 Mbit/s  
95th percentile per-packet one-way delay: 67.532 ms  
Loss rate: 0.23%  
-- Flow 3:  
Average throughput: 136.33 Mbit/s  
95th percentile per-packet one-way delay: 76.503 ms  
Loss rate: 0.93%

Run 6: Report of Copa — Data Link



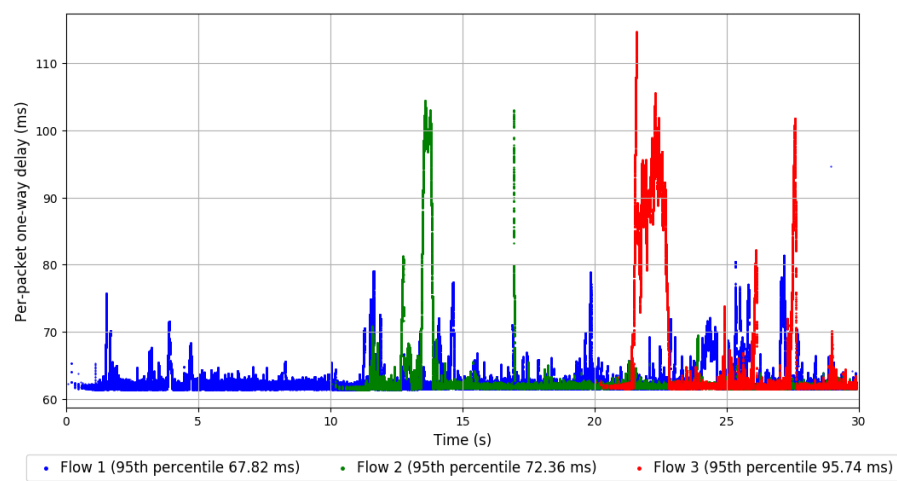
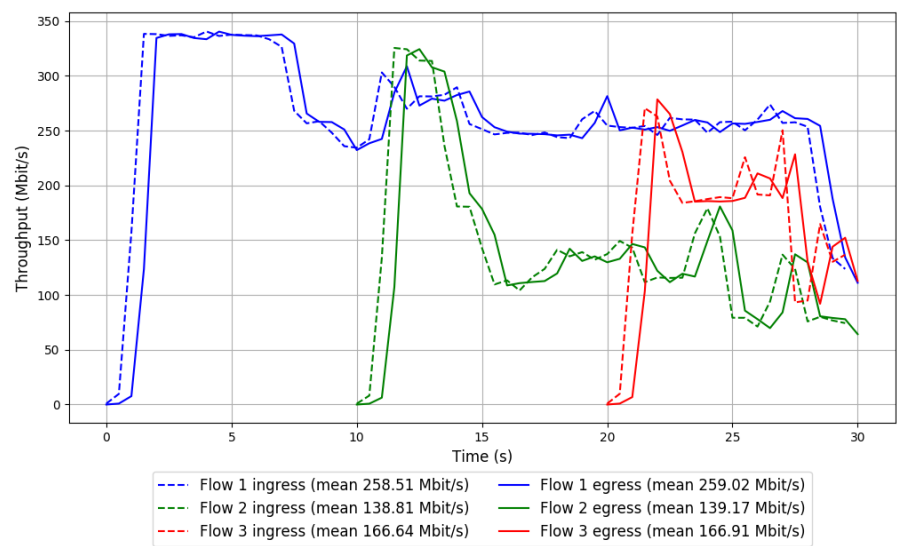
Run 7: Statistics of Copa

Start at: 2018-08-11 23:28:31  
End at: 2018-08-11 23:29:01  
Local clock offset: 0.014 ms  
Remote clock offset: -0.584 ms

# Below is generated by plot.py at 2018-08-12 02:16:03  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 406.50 Mbit/s  
95th percentile per-packet one-way delay: 74.307 ms  
Loss rate: 0.36%  
-- Flow 1:  
Average throughput: 259.02 Mbit/s  
95th percentile per-packet one-way delay: 67.816 ms  
Loss rate: 0.21%  
-- Flow 2:  
Average throughput: 139.17 Mbit/s  
95th percentile per-packet one-way delay: 72.362 ms  
Loss rate: 0.36%  
-- Flow 3:  
Average throughput: 166.91 Mbit/s  
95th percentile per-packet one-way delay: 95.740 ms  
Loss rate: 1.08%



Run 7: Report of Copa — Data Link

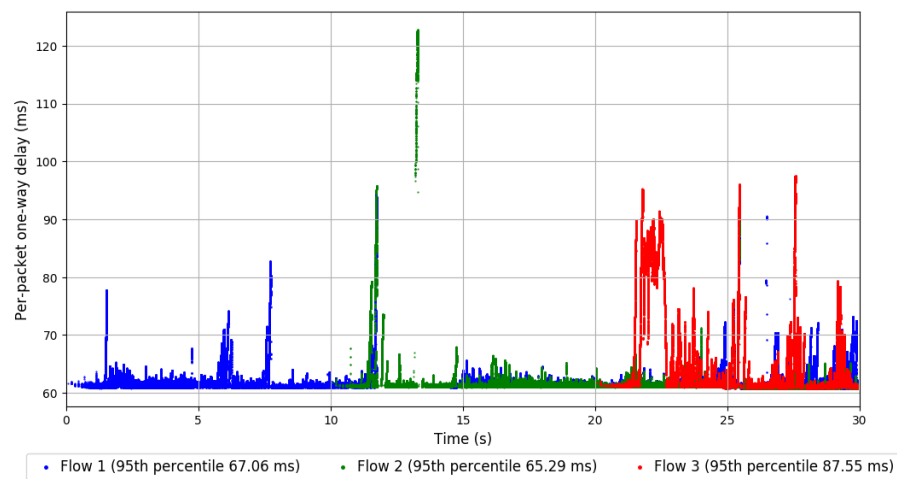
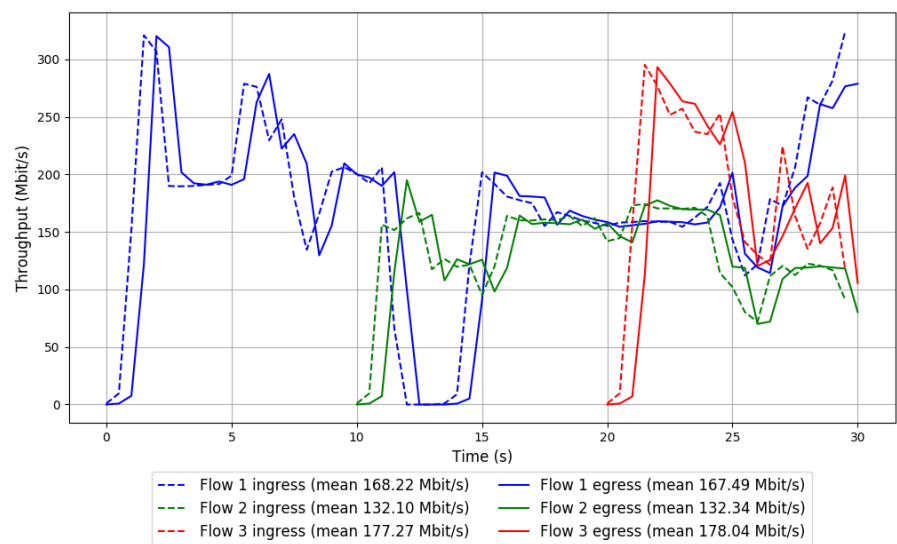


Run 8: Statistics of Copa

Start at: 2018-08-11 23:55:20  
End at: 2018-08-11 23:55:50  
Local clock offset: -0.076 ms  
Remote clock offset: -0.127 ms

# Below is generated by plot.py at 2018-08-12 02:16:03  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 314.14 Mbit/s  
95th percentile per-packet one-way delay: 73.168 ms  
Loss rate: 0.72%  
-- Flow 1:  
Average throughput: 167.49 Mbit/s  
95th percentile per-packet one-way delay: 67.057 ms  
Loss rate: 0.84%  
-- Flow 2:  
Average throughput: 132.34 Mbit/s  
95th percentile per-packet one-way delay: 65.292 ms  
Loss rate: 0.44%  
-- Flow 3:  
Average throughput: 178.04 Mbit/s  
95th percentile per-packet one-way delay: 87.551 ms  
Loss rate: 0.80%

Run 8: Report of Copa — Data Link

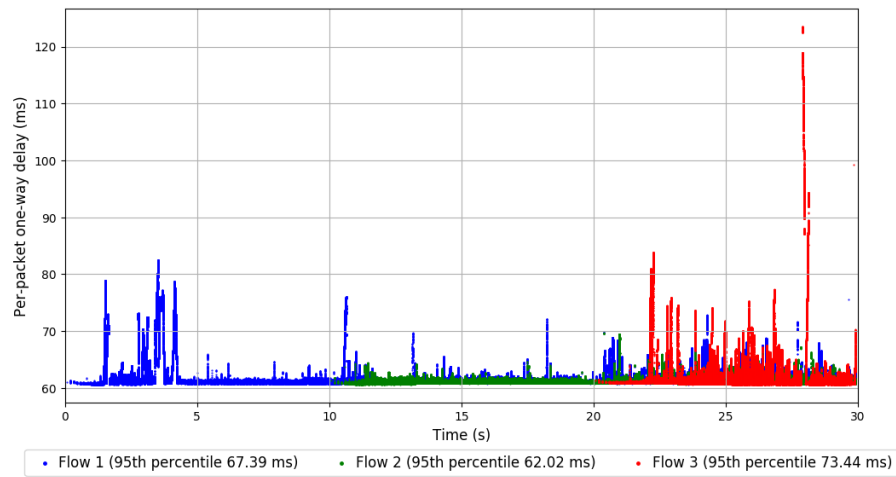
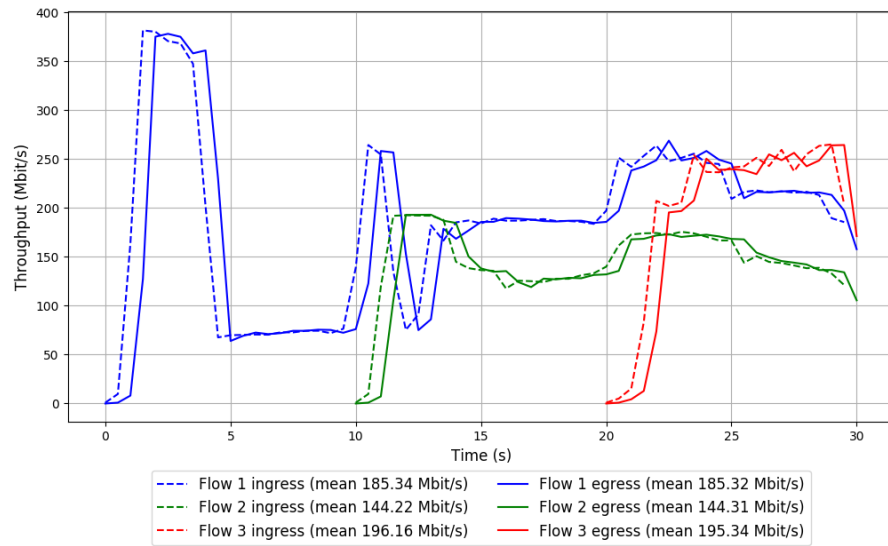


Run 9: Statistics of Copa

Start at: 2018-08-12 00:22:12  
End at: 2018-08-12 00:22:42  
Local clock offset: -0.088 ms  
Remote clock offset: -0.032 ms

# Below is generated by plot.py at 2018-08-12 02:16:03  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 345.60 Mbit/s  
95th percentile per-packet one-way delay: 66.704 ms  
Loss rate: 0.69%  
-- Flow 1:  
Average throughput: 185.32 Mbit/s  
95th percentile per-packet one-way delay: 67.394 ms  
Loss rate: 0.42%  
-- Flow 2:  
Average throughput: 144.31 Mbit/s  
95th percentile per-packet one-way delay: 62.023 ms  
Loss rate: 0.54%  
-- Flow 3:  
Average throughput: 195.34 Mbit/s  
95th percentile per-packet one-way delay: 73.444 ms  
Loss rate: 1.65%

## Run 9: Report of Copa — Data Link

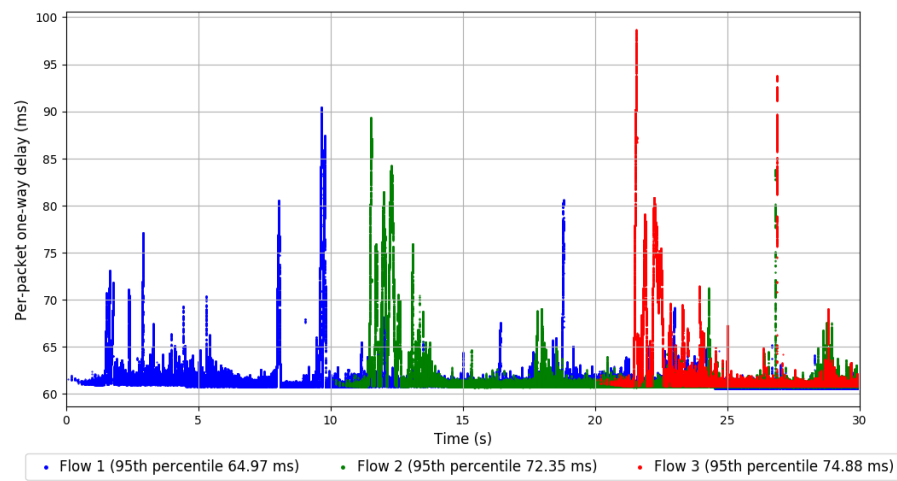
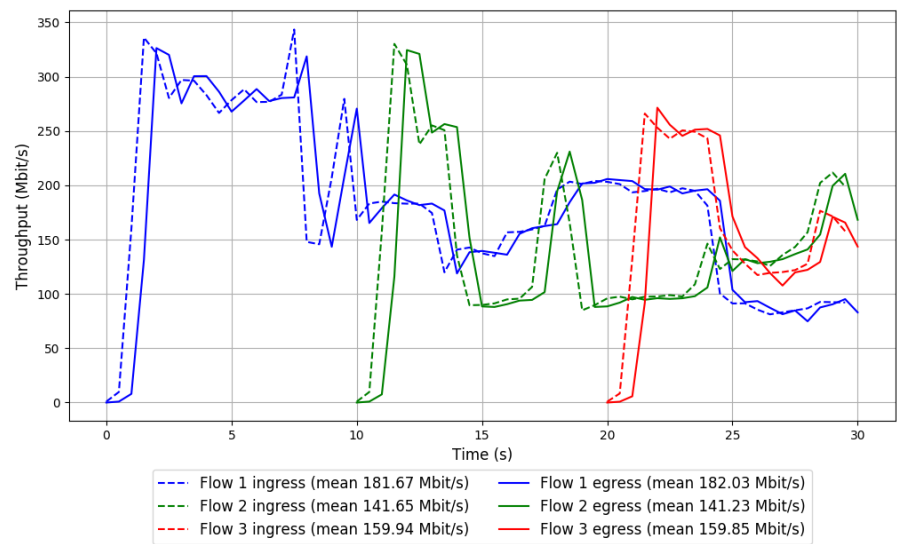


Run 10: Statistics of Copa

Start at: 2018-08-12 00:48:50  
End at: 2018-08-12 00:49:20  
Local clock offset: -0.091 ms  
Remote clock offset: -0.067 ms

# Below is generated by plot.py at 2018-08-12 02:16:03  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 328.58 Mbit/s  
95th percentile per-packet one-way delay: 69.217 ms  
Loss rate: 0.59%  
-- Flow 1:  
Average throughput: 182.03 Mbit/s  
95th percentile per-packet one-way delay: 64.968 ms  
Loss rate: 0.21%  
-- Flow 2:  
Average throughput: 141.23 Mbit/s  
95th percentile per-packet one-way delay: 72.347 ms  
Loss rate: 0.91%  
-- Flow 3:  
Average throughput: 159.85 Mbit/s  
95th percentile per-packet one-way delay: 74.880 ms  
Loss rate: 1.29%

Run 10: Report of Copa — Data Link



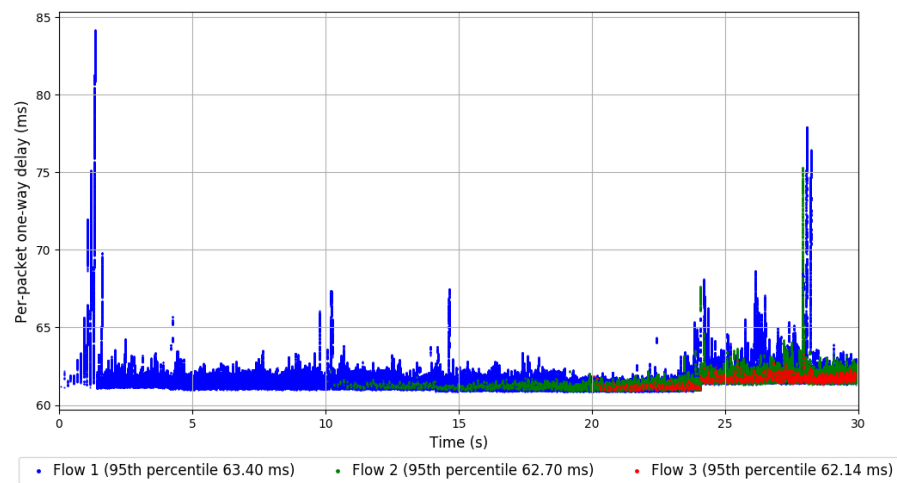
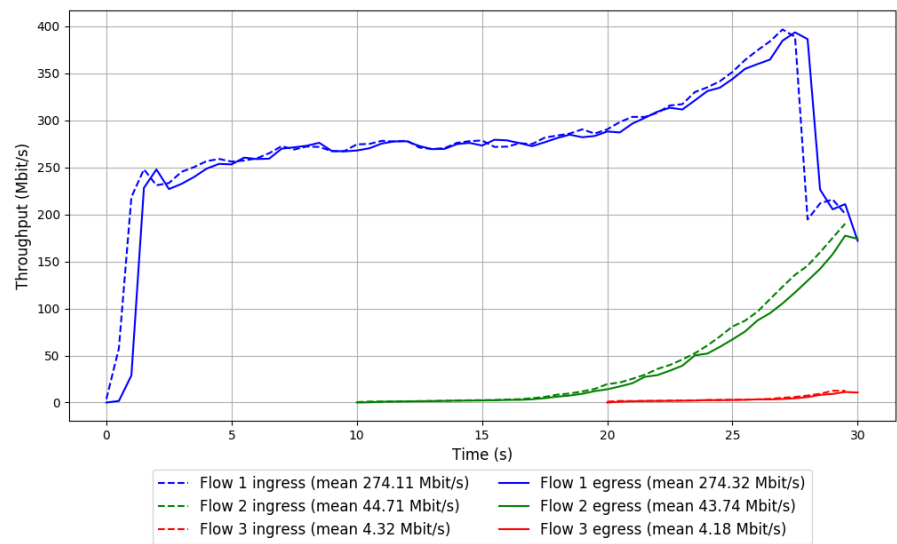
Run 1: Statistics of TCP Cubic

Start at: 2018-08-11 20:50:51  
End at: 2018-08-11 20:51:21  
Local clock offset: 0.112 ms  
Remote clock offset: -0.266 ms

# Below is generated by plot.py at 2018-08-12 02:16:03  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 304.76 Mbit/s  
95th percentile per-packet one-way delay: 63.299 ms  
Loss rate: 0.59%  
-- Flow 1:  
Average throughput: 274.32 Mbit/s  
95th percentile per-packet one-way delay: 63.404 ms  
Loss rate: 0.33%  
-- Flow 2:  
Average throughput: 43.74 Mbit/s  
95th percentile per-packet one-way delay: 62.702 ms  
Loss rate: 2.76%  
-- Flow 3:  
Average throughput: 4.18 Mbit/s  
95th percentile per-packet one-way delay: 62.138 ms  
Loss rate: 4.36%



Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-08-11 21:17:25

End at: 2018-08-11 21:17:55

Local clock offset: 0.055 ms

Remote clock offset: -0.26 ms

# Below is generated by plot.py at 2018-08-12 02:16:03

# Datalink statistics

-- Total of 3 flows:

Average throughput: 357.67 Mbit/s

95th percentile per-packet one-way delay: 62.723 ms

Loss rate: 0.76%

-- Flow 1:

Average throughput: 327.35 Mbit/s

95th percentile per-packet one-way delay: 62.718 ms

Loss rate: 0.57%

-- Flow 2:

Average throughput: 43.64 Mbit/s

95th percentile per-packet one-way delay: 62.822 ms

Loss rate: 2.75%

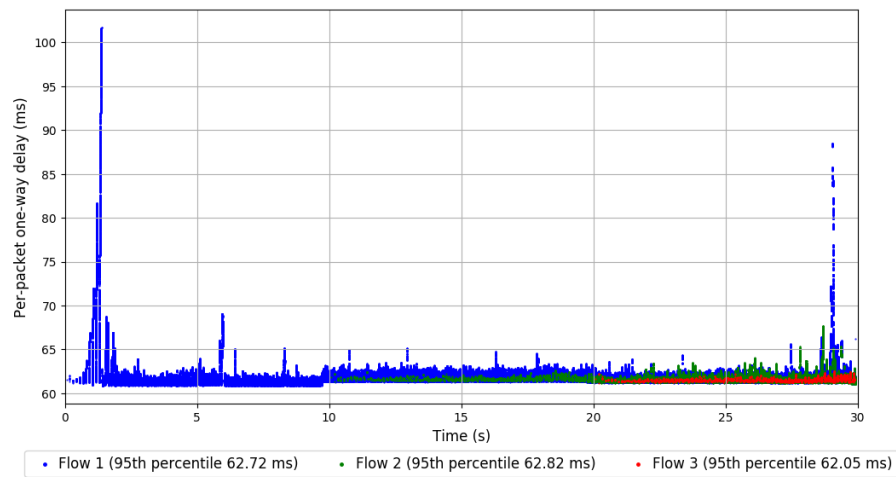
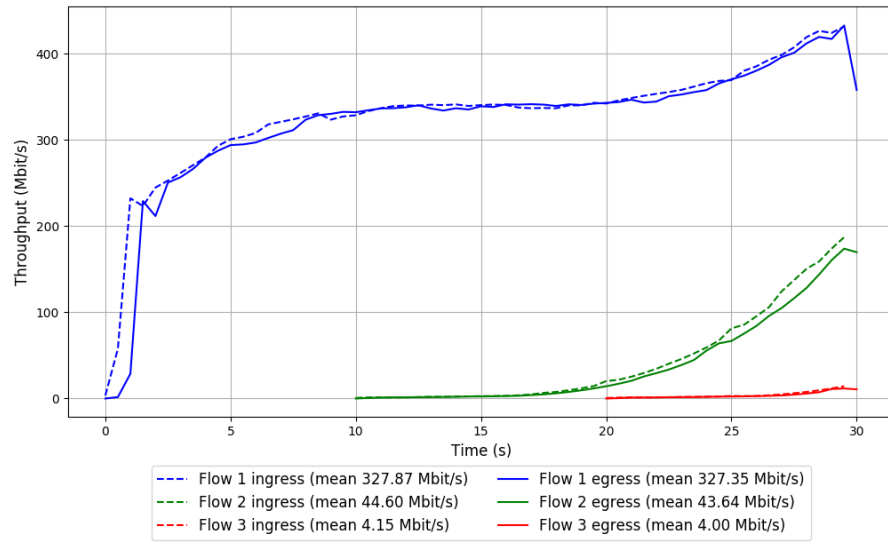
-- Flow 3:

Average throughput: 4.00 Mbit/s

95th percentile per-packet one-way delay: 62.055 ms

Loss rate: 4.80%

## Run 2: Report of TCP Cubic — Data Link

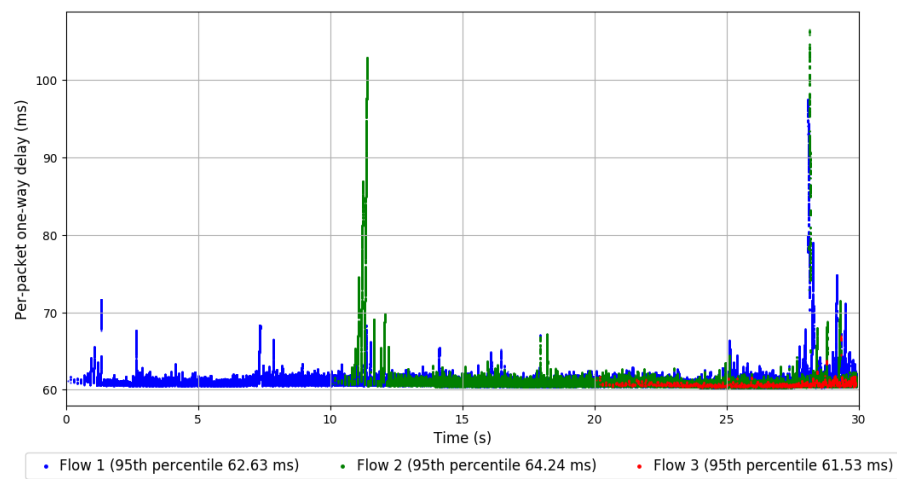
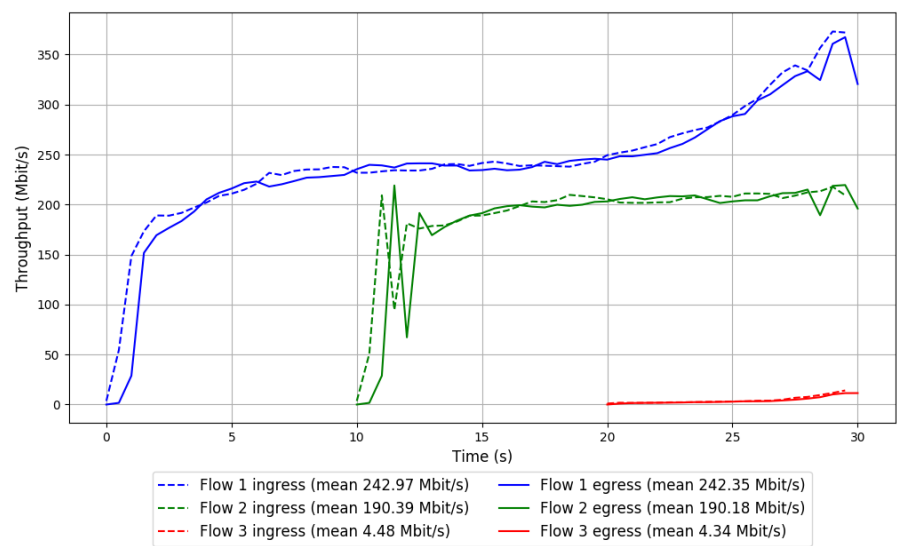


Run 3: Statistics of TCP Cubic

Start at: 2018-08-11 21:44:11  
End at: 2018-08-11 21:44:41  
Local clock offset: -0.025 ms  
Remote clock offset: 0.379 ms

# Below is generated by plot.py at 2018-08-12 02:16:03  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 370.26 Mbit/s  
95th percentile per-packet one-way delay: 62.873 ms  
Loss rate: 0.70%  
-- Flow 1:  
Average throughput: 242.35 Mbit/s  
95th percentile per-packet one-way delay: 62.635 ms  
Loss rate: 0.66%  
-- Flow 2:  
Average throughput: 190.18 Mbit/s  
95th percentile per-packet one-way delay: 64.236 ms  
Loss rate: 0.72%  
-- Flow 3:  
Average throughput: 4.34 Mbit/s  
95th percentile per-packet one-way delay: 61.528 ms  
Loss rate: 4.25%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-08-11 22:10:52

End at: 2018-08-11 22:11:22

Local clock offset: -0.023 ms

Remote clock offset: 0.067 ms

# Below is generated by plot.py at 2018-08-12 02:16:03

# Datalink statistics

-- Total of 3 flows:

Average throughput: 566.58 Mbit/s

95th percentile per-packet one-way delay: 85.629 ms

Loss rate: 0.69%

-- Flow 1:

Average throughput: 438.29 Mbit/s

95th percentile per-packet one-way delay: 85.373 ms

Loss rate: 0.47%

-- Flow 2:

Average throughput: 41.82 Mbit/s

95th percentile per-packet one-way delay: 77.547 ms

Loss rate: 2.87%

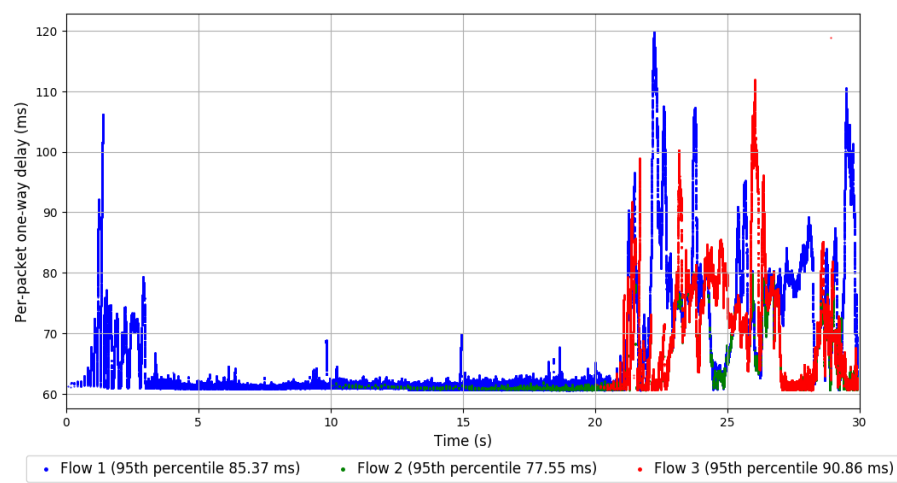
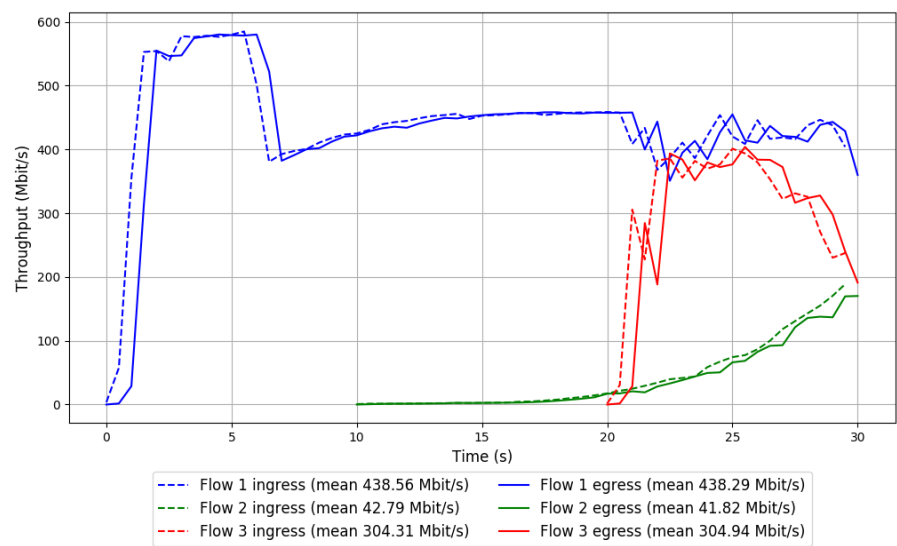
-- Flow 3:

Average throughput: 304.94 Mbit/s

95th percentile per-packet one-way delay: 90.856 ms

Loss rate: 1.02%

Run 4: Report of TCP Cubic — Data Link



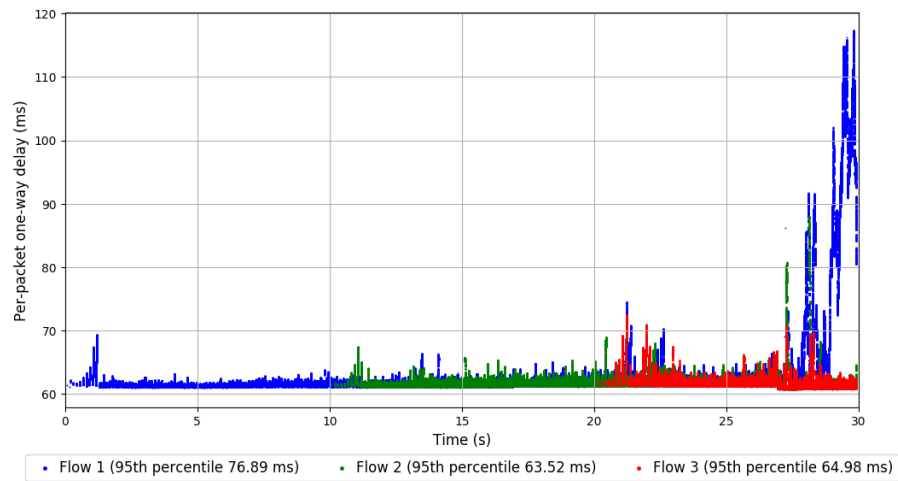
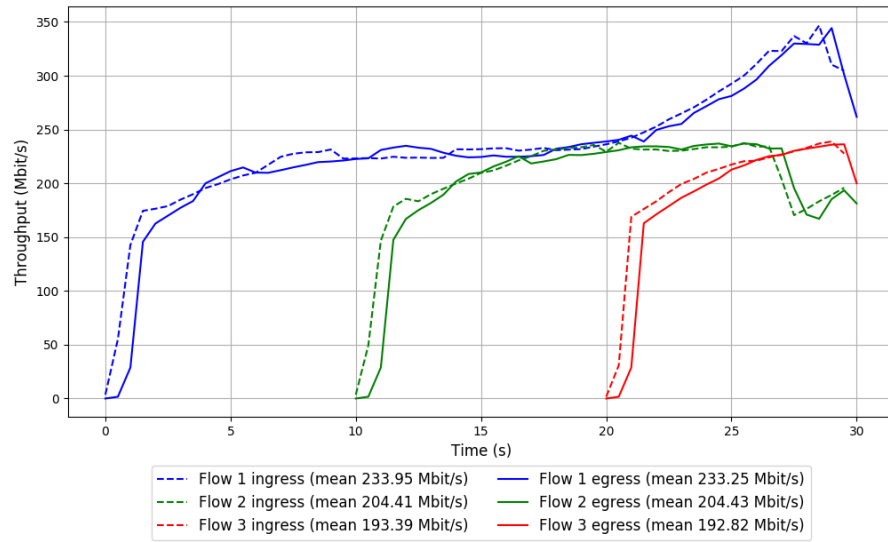
Run 5: Statistics of TCP Cubic

Start at: 2018-08-11 22:37:58  
End at: 2018-08-11 22:38:28  
Local clock offset: 0.011 ms  
Remote clock offset: -0.048 ms

# Below is generated by plot.py at 2018-08-12 02:17:24  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 432.71 Mbit/s  
95th percentile per-packet one-way delay: 66.775 ms  
Loss rate: 0.79%  
-- Flow 1:  
Average throughput: 233.25 Mbit/s  
95th percentile per-packet one-way delay: 76.895 ms  
Loss rate: 0.70%  
-- Flow 2:  
Average throughput: 204.43 Mbit/s  
95th percentile per-packet one-way delay: 63.516 ms  
Loss rate: 0.61%  
-- Flow 3:  
Average throughput: 192.82 Mbit/s  
95th percentile per-packet one-way delay: 64.980 ms  
Loss rate: 1.52%



# Run 5: Report of TCP Cubic — Data Link

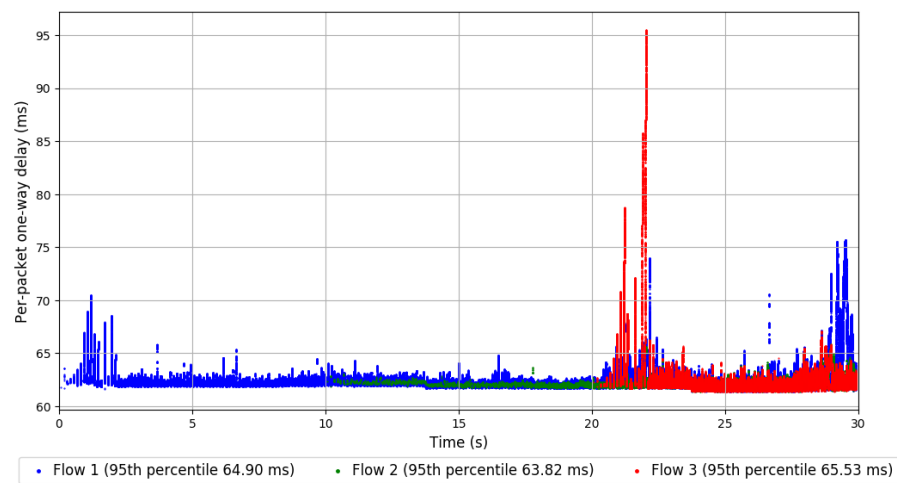
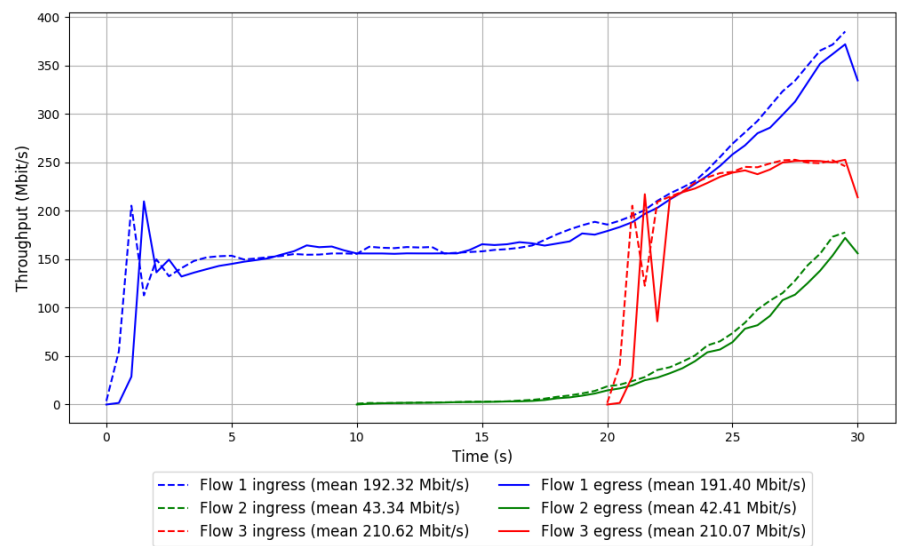


Run 6: Statistics of TCP Cubic

Start at: 2018-08-11 23:05:01  
End at: 2018-08-11 23:05:31  
Local clock offset: -0.084 ms  
Remote clock offset: -0.793 ms

# Below is generated by plot.py at 2018-08-12 02:17:24  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 288.86 Mbit/s  
95th percentile per-packet one-way delay: 64.885 ms  
Loss rate: 1.22%  
-- Flow 1:  
Average throughput: 191.40 Mbit/s  
95th percentile per-packet one-way delay: 64.896 ms  
Loss rate: 0.88%  
-- Flow 2:  
Average throughput: 42.41 Mbit/s  
95th percentile per-packet one-way delay: 63.819 ms  
Loss rate: 2.76%  
-- Flow 3:  
Average throughput: 210.07 Mbit/s  
95th percentile per-packet one-way delay: 65.534 ms  
Loss rate: 1.49%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-08-11 23:31:53

End at: 2018-08-11 23:32:23

Local clock offset: 0.045 ms

Remote clock offset: 0.111 ms

# Below is generated by plot.py at 2018-08-12 02:17:24

# Datalink statistics

-- Total of 3 flows:

Average throughput: 294.01 Mbit/s

95th percentile per-packet one-way delay: 63.232 ms

Loss rate: 0.86%

-- Flow 1:

Average throughput: 220.88 Mbit/s

95th percentile per-packet one-way delay: 63.058 ms

Loss rate: 0.50%

-- Flow 2:

Average throughput: 43.67 Mbit/s

95th percentile per-packet one-way delay: 62.456 ms

Loss rate: 2.75%

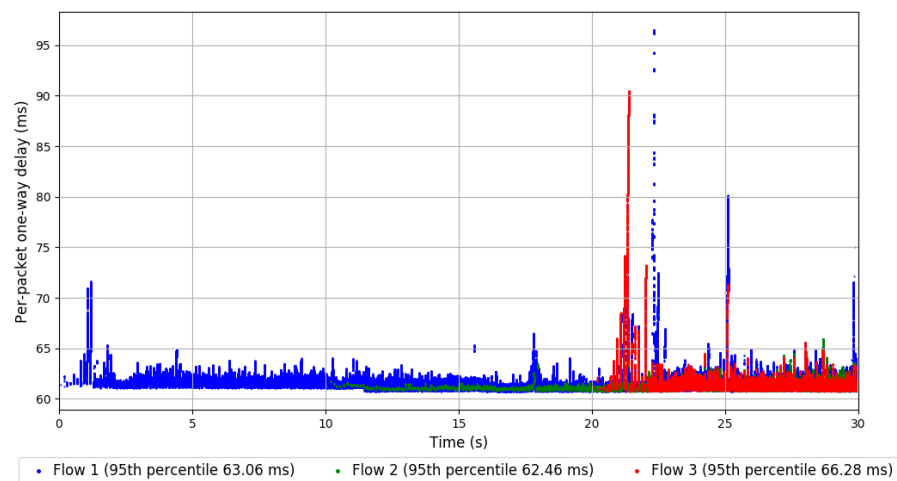
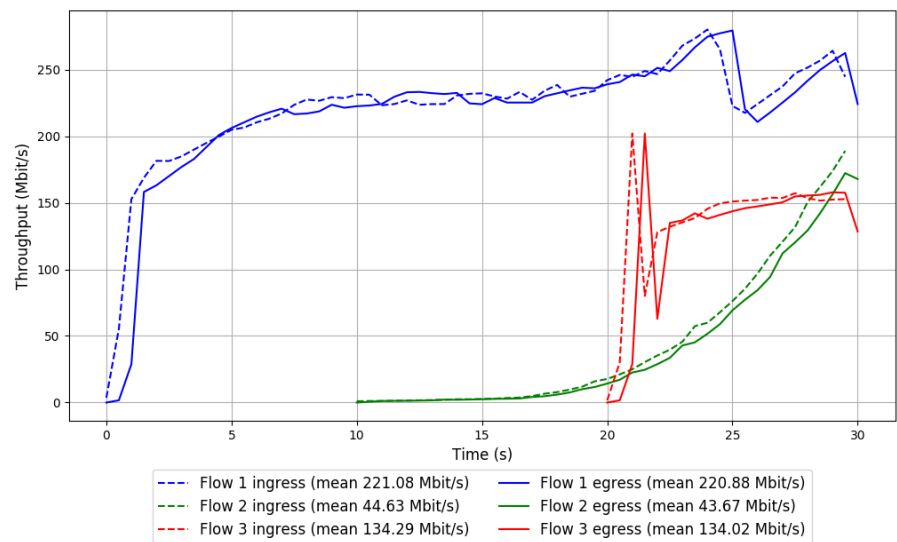
-- Flow 3:

Average throughput: 134.02 Mbit/s

95th percentile per-packet one-way delay: 66.275 ms

Loss rate: 1.43%

Run 7: Report of TCP Cubic — Data Link

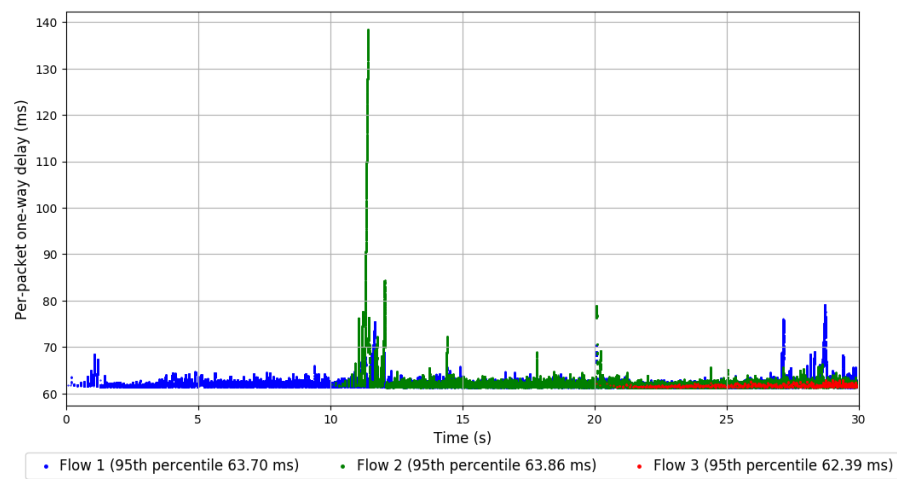
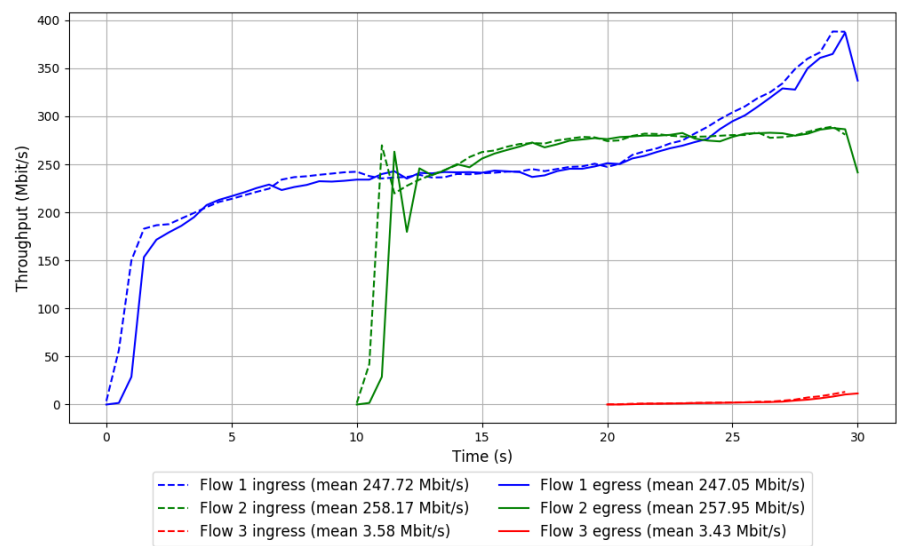


Run 8: Statistics of TCP Cubic

Start at: 2018-08-11 23:58:33  
End at: 2018-08-11 23:59:03  
Local clock offset: -0.037 ms  
Remote clock offset: -0.532 ms

# Below is generated by plot.py at 2018-08-12 02:20:42  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 419.64 Mbit/s  
95th percentile per-packet one-way delay: 63.730 ms  
Loss rate: 0.70%  
-- Flow 1:  
Average throughput: 247.05 Mbit/s  
95th percentile per-packet one-way delay: 63.695 ms  
Loss rate: 0.68%  
-- Flow 2:  
Average throughput: 257.95 Mbit/s  
95th percentile per-packet one-way delay: 63.859 ms  
Loss rate: 0.69%  
-- Flow 3:  
Average throughput: 3.43 Mbit/s  
95th percentile per-packet one-way delay: 62.393 ms  
Loss rate: 5.36%

Run 8: Report of TCP Cubic — Data Link



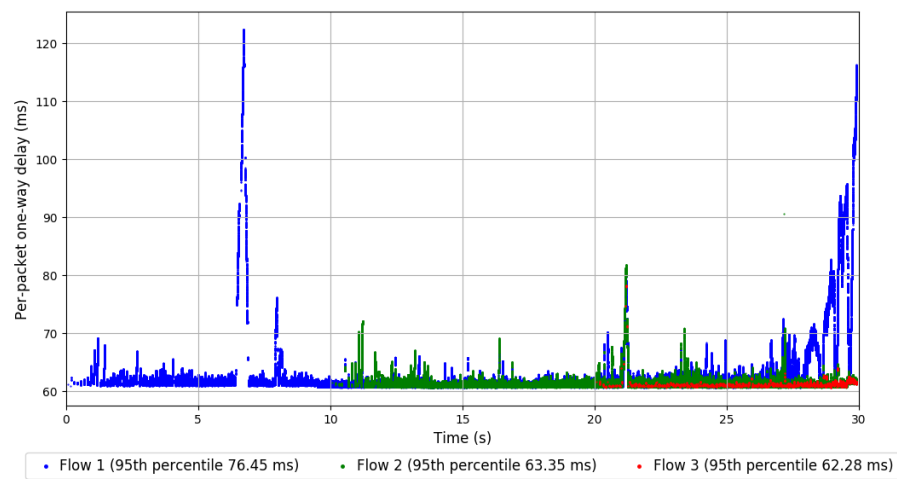
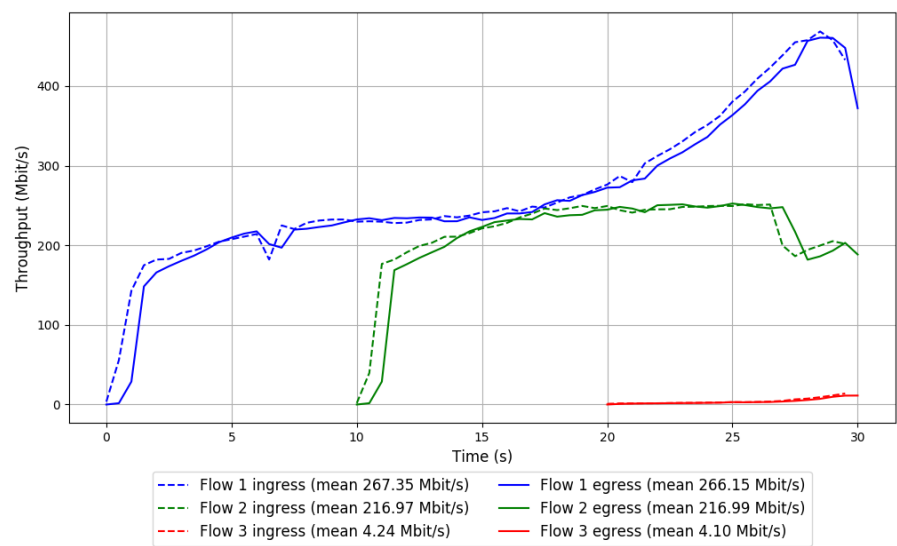
Run 9: Statistics of TCP Cubic

Start at: 2018-08-12 00:25:25  
End at: 2018-08-12 00:25:55  
Local clock offset: -0.032 ms  
Remote clock offset: -0.026 ms

# Below is generated by plot.py at 2018-08-12 02:21:15  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 411.76 Mbit/s  
95th percentile per-packet one-way delay: 70.634 ms  
Loss rate: 0.78%  
-- Flow 1:  
Average throughput: 266.15 Mbit/s  
95th percentile per-packet one-way delay: 76.455 ms  
Loss rate: 0.86%  
-- Flow 2:  
Average throughput: 216.99 Mbit/s  
95th percentile per-packet one-way delay: 63.346 ms  
Loss rate: 0.60%  
-- Flow 3:  
Average throughput: 4.10 Mbit/s  
95th percentile per-packet one-way delay: 62.281 ms  
Loss rate: 4.47%



Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-08-12 00:52:04

End at: 2018-08-12 00:52:35

Local clock offset: -0.04 ms

Remote clock offset: -0.12 ms

# Below is generated by plot.py at 2018-08-12 02:21:15

# Datalink statistics

-- Total of 3 flows:

Average throughput: 314.42 Mbit/s

95th percentile per-packet one-way delay: 63.853 ms

Loss rate: 1.04%

-- Flow 1:

Average throughput: 232.59 Mbit/s

95th percentile per-packet one-way delay: 63.645 ms

Loss rate: 0.71%

-- Flow 2:

Average throughput: 42.32 Mbit/s

95th percentile per-packet one-way delay: 63.986 ms

Loss rate: 2.75%

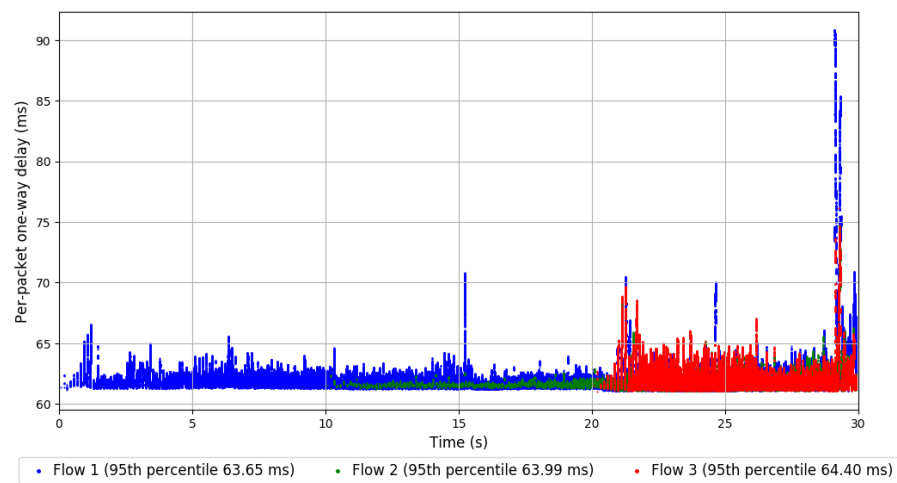
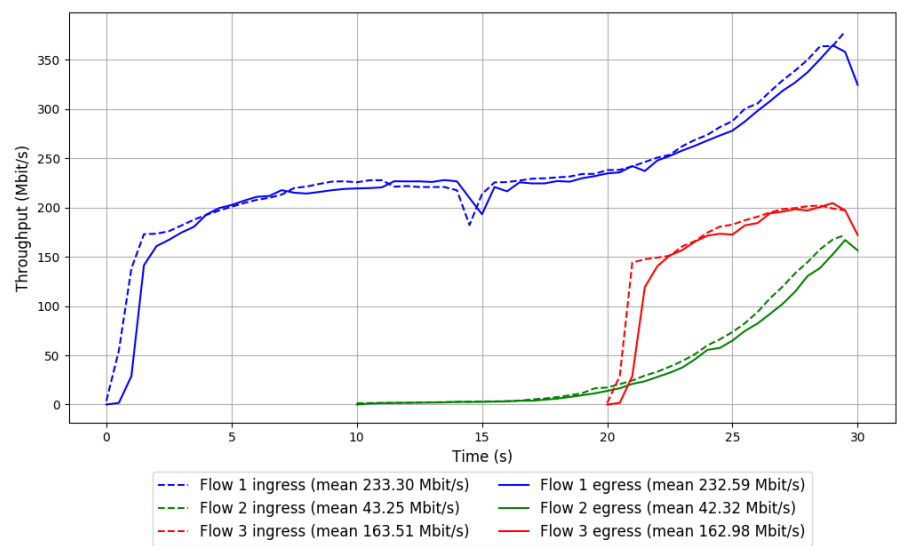
-- Flow 3:

Average throughput: 162.98 Mbit/s

95th percentile per-packet one-way delay: 64.399 ms

Loss rate: 1.55%

Run 10: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2018-08-11 21:07:31

End at: 2018-08-11 21:08:01

Local clock offset: 0.034 ms

Remote clock offset: 1.152 ms

# Below is generated by plot.py at 2018-08-12 02:46:28

# Datalink statistics

-- Total of 3 flows:

Average throughput: 1422.88 Mbit/s

95th percentile per-packet one-way delay: 131.680 ms

Loss rate: 2.89%

-- Flow 1:

Average throughput: 743.61 Mbit/s

95th percentile per-packet one-way delay: 135.408 ms

Loss rate: 3.53%

-- Flow 2:

Average throughput: 717.12 Mbit/s

95th percentile per-packet one-way delay: 125.039 ms

Loss rate: 1.58%

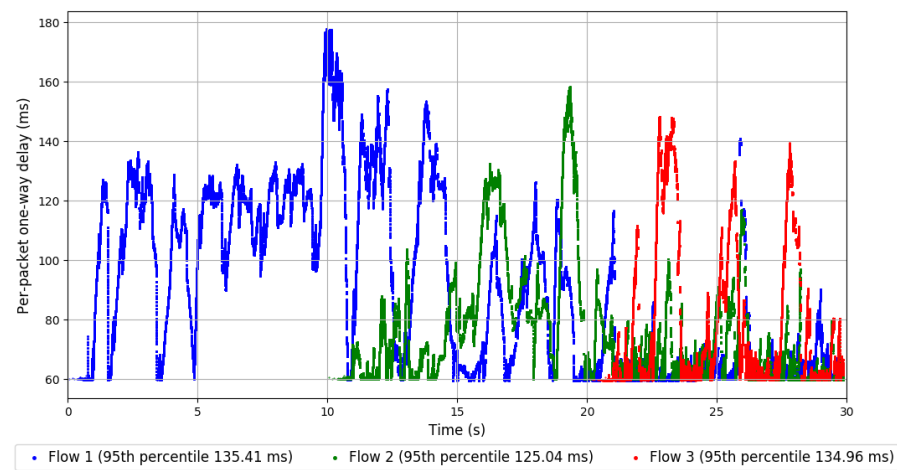
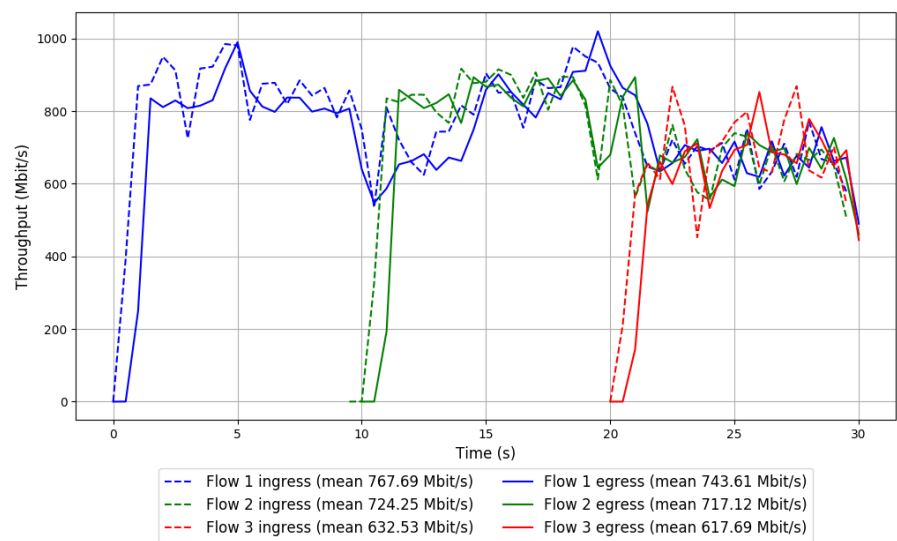
-- Flow 3:

Average throughput: 617.69 Mbit/s

95th percentile per-packet one-way delay: 134.956 ms

Loss rate: 3.55%

Run 1: Report of FillP — Data Link

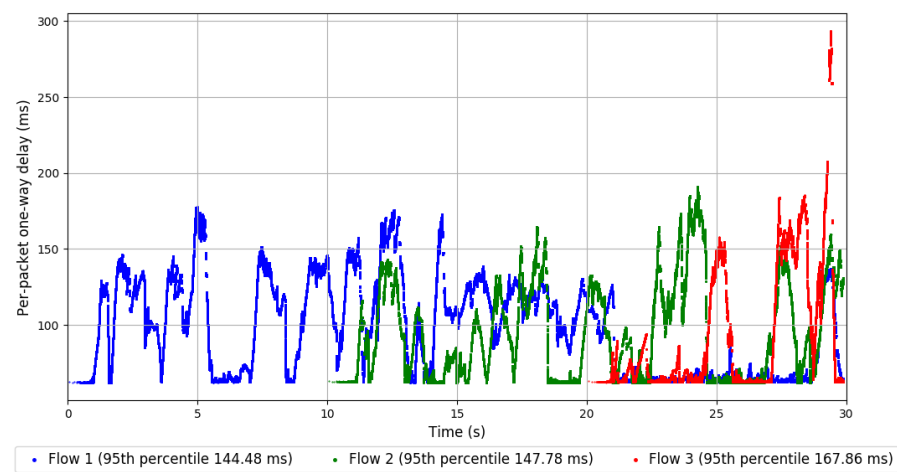
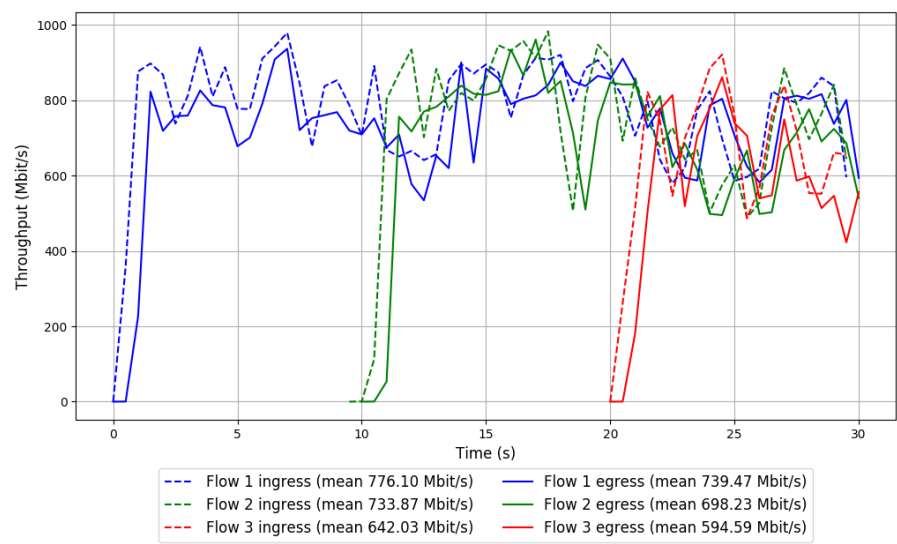


Run 2: Statistics of FillP

Start at: 2018-08-11 21:34:11  
End at: 2018-08-11 21:34:41  
Local clock offset: 0.042 ms  
Remote clock offset: -1.471 ms

# Below is generated by plot.py at 2018-08-12 02:46:48  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1398.96 Mbit/s  
95th percentile per-packet one-way delay: 149.644 ms  
Loss rate: 5.72%  
-- Flow 1:  
Average throughput: 739.47 Mbit/s  
95th percentile per-packet one-way delay: 144.479 ms  
Loss rate: 5.11%  
-- Flow 2:  
Average throughput: 698.23 Mbit/s  
95th percentile per-packet one-way delay: 147.782 ms  
Loss rate: 5.44%  
-- Flow 3:  
Average throughput: 594.59 Mbit/s  
95th percentile per-packet one-way delay: 167.861 ms  
Loss rate: 8.54%

Run 2: Report of FillP — Data Link



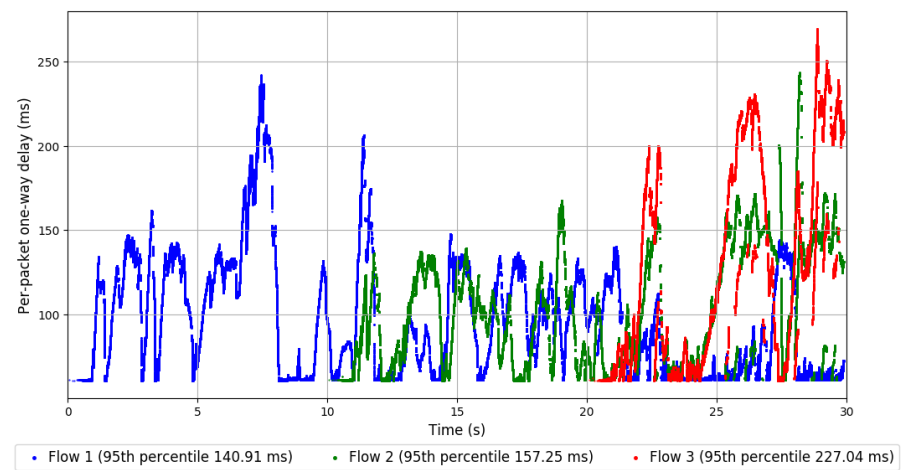
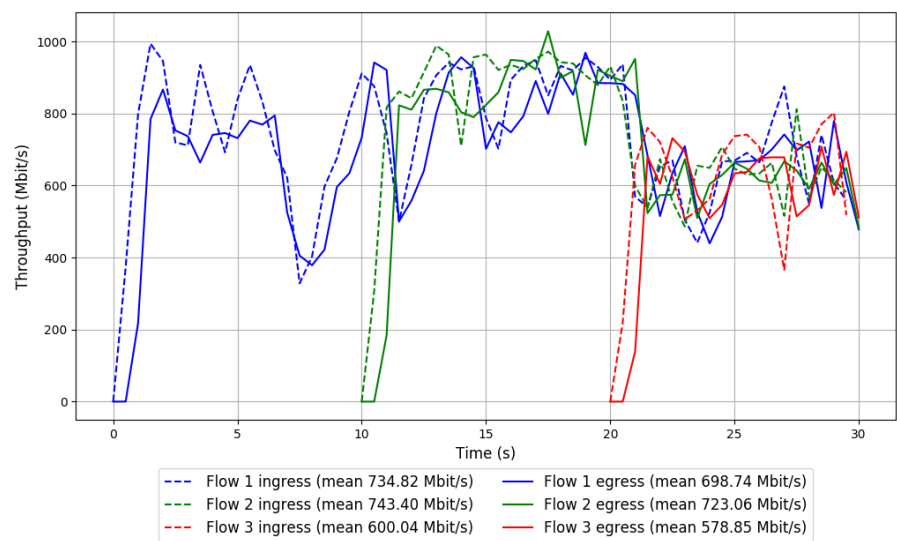
Run 3: Statistics of FillP

Start at: 2018-08-11 22:00:56  
End at: 2018-08-11 22:01:26  
Local clock offset: -0.094 ms  
Remote clock offset: -0.296 ms

# Below is generated by plot.py at 2018-08-12 02:46:48  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1369.08 Mbit/s  
95th percentile per-packet one-way delay: 184.489 ms  
Loss rate: 4.54%  
-- Flow 1:  
Average throughput: 698.74 Mbit/s  
95th percentile per-packet one-way delay: 140.905 ms  
Loss rate: 5.30%  
-- Flow 2:  
Average throughput: 723.06 Mbit/s  
95th percentile per-packet one-way delay: 157.252 ms  
Loss rate: 3.34%  
-- Flow 3:  
Average throughput: 578.85 Mbit/s  
95th percentile per-packet one-way delay: 227.040 ms  
Loss rate: 4.74%



Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-08-11 22:27:55

End at: 2018-08-11 22:28:25

Local clock offset: -0.021 ms

Remote clock offset: -0.25 ms

# Below is generated by plot.py at 2018-08-12 02:47:44

# Datalink statistics

-- Total of 3 flows:

Average throughput: 1420.75 Mbit/s

95th percentile per-packet one-way delay: 138.607 ms

Loss rate: 3.31%

-- Flow 1:

Average throughput: 713.42 Mbit/s

95th percentile per-packet one-way delay: 143.229 ms

Loss rate: 4.06%

-- Flow 2:

Average throughput: 754.75 Mbit/s

95th percentile per-packet one-way delay: 137.301 ms

Loss rate: 2.31%

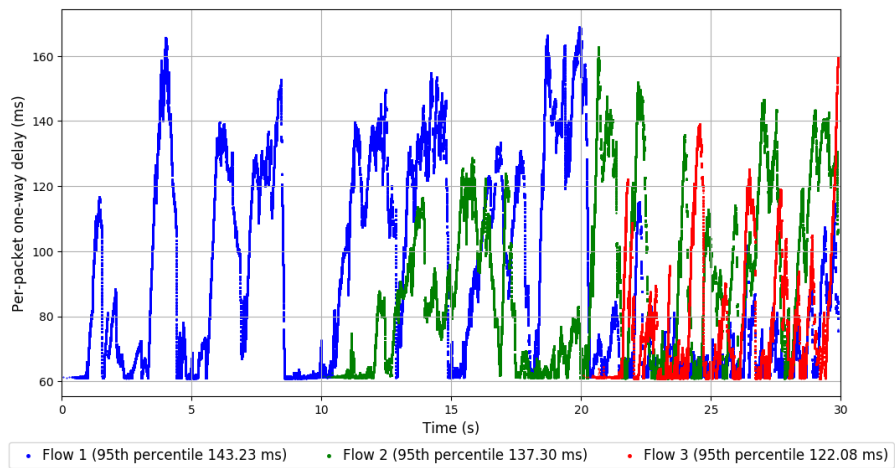
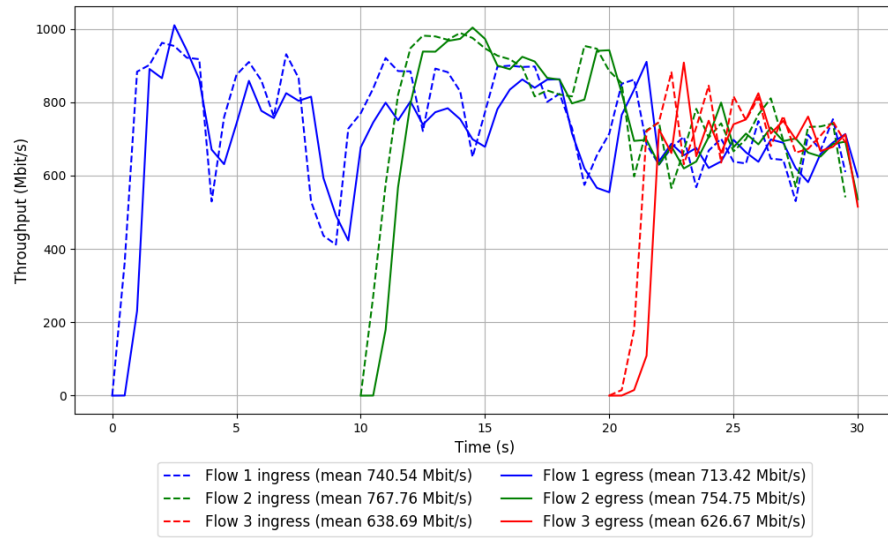
-- Flow 3:

Average throughput: 626.67 Mbit/s

95th percentile per-packet one-way delay: 122.077 ms

Loss rate: 3.10%

#### Run 4: Report of FillP — Data Link

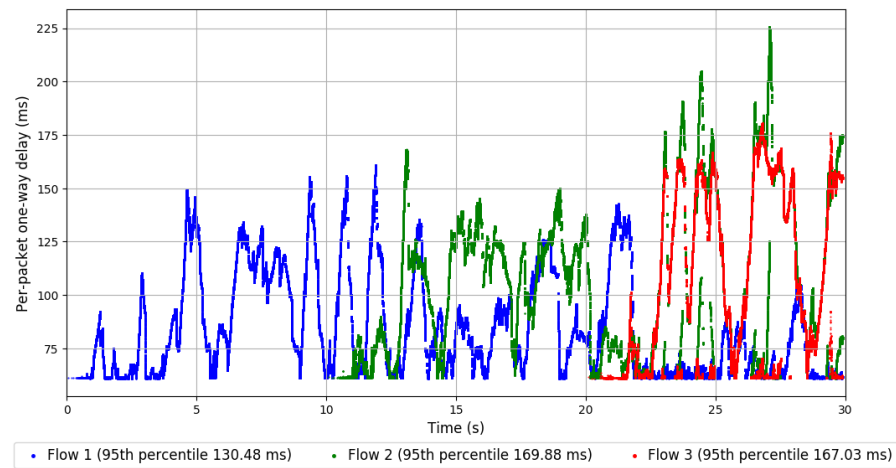
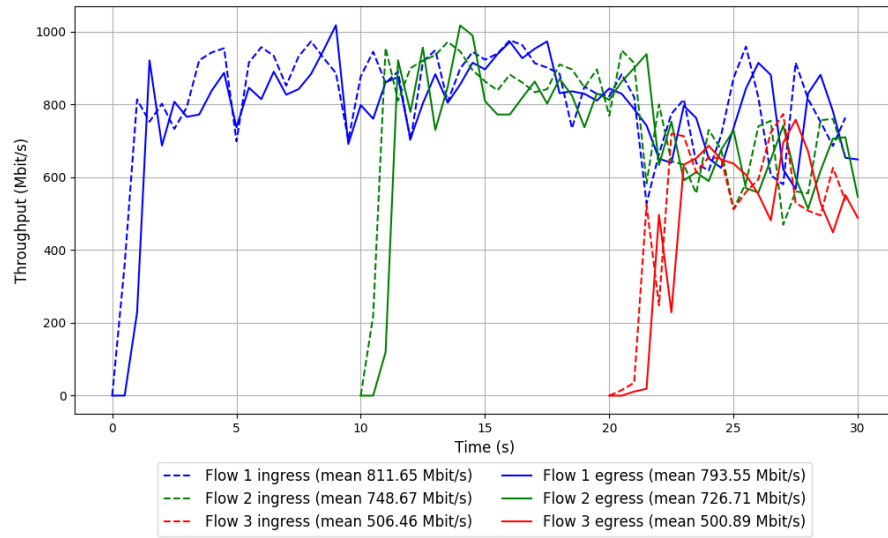


Run 5: Statistics of FillP

Start at: 2018-08-11 22:54:53  
End at: 2018-08-11 22:55:23  
Local clock offset: -0.031 ms  
Remote clock offset: -0.105 ms

# Below is generated by plot.py at 2018-08-12 02:49:41  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1440.34 Mbit/s  
95th percentile per-packet one-way delay: 157.884 ms  
Loss rate: 2.90%  
-- Flow 1:  
Average throughput: 793.55 Mbit/s  
95th percentile per-packet one-way delay: 130.484 ms  
Loss rate: 2.63%  
-- Flow 2:  
Average throughput: 726.71 Mbit/s  
95th percentile per-packet one-way delay: 169.875 ms  
Loss rate: 3.54%  
-- Flow 3:  
Average throughput: 500.89 Mbit/s  
95th percentile per-packet one-way delay: 167.027 ms  
Loss rate: 2.33%

# Run 5: Report of FillP — Data Link

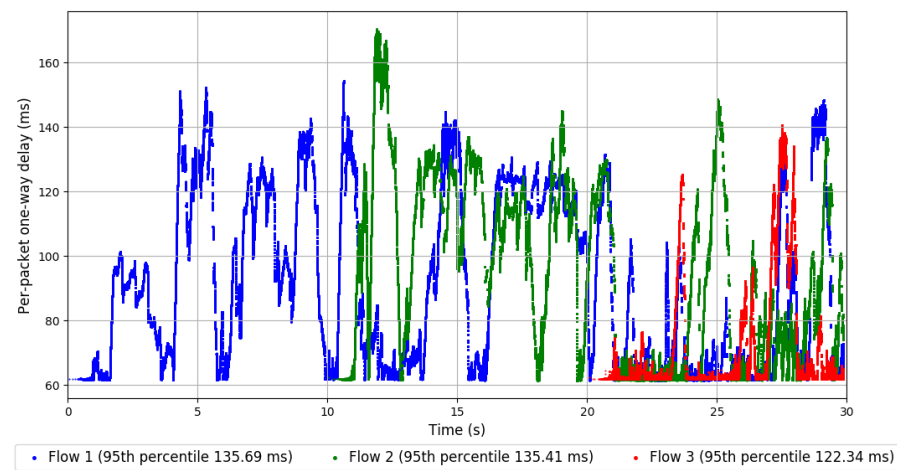
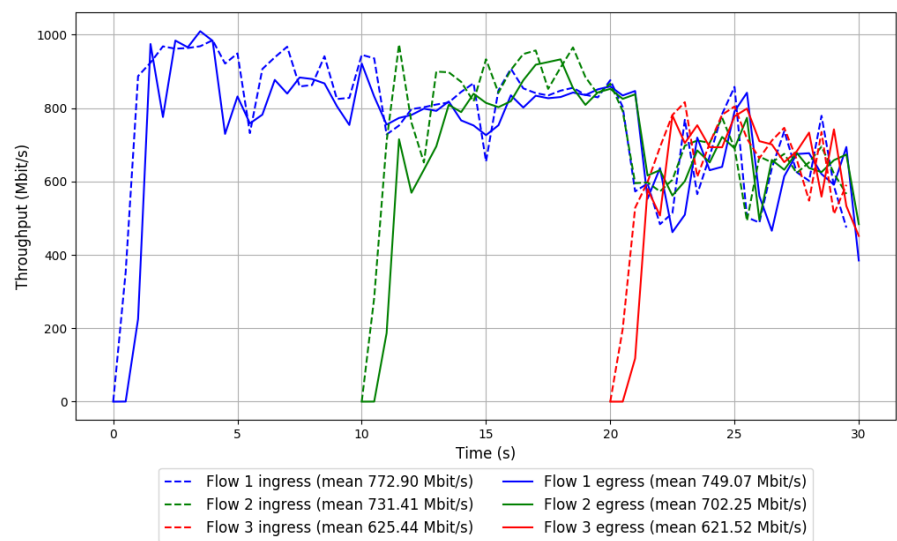


Run 6: Statistics of FillP

Start at: 2018-08-11 23:21:49  
End at: 2018-08-11 23:22:19  
Local clock offset: 0.023 ms  
Remote clock offset: -0.575 ms

# Below is generated by plot.py at 2018-08-12 02:51:36  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1419.80 Mbit/s  
95th percentile per-packet one-way delay: 134.566 ms  
Loss rate: 3.62%  
-- Flow 1:  
Average throughput: 749.07 Mbit/s  
95th percentile per-packet one-way delay: 135.691 ms  
Loss rate: 3.48%  
-- Flow 2:  
Average throughput: 702.25 Mbit/s  
95th percentile per-packet one-way delay: 135.406 ms  
Loss rate: 4.58%  
-- Flow 3:  
Average throughput: 621.52 Mbit/s  
95th percentile per-packet one-way delay: 122.344 ms  
Loss rate: 1.87%

Run 6: Report of FillP — Data Link



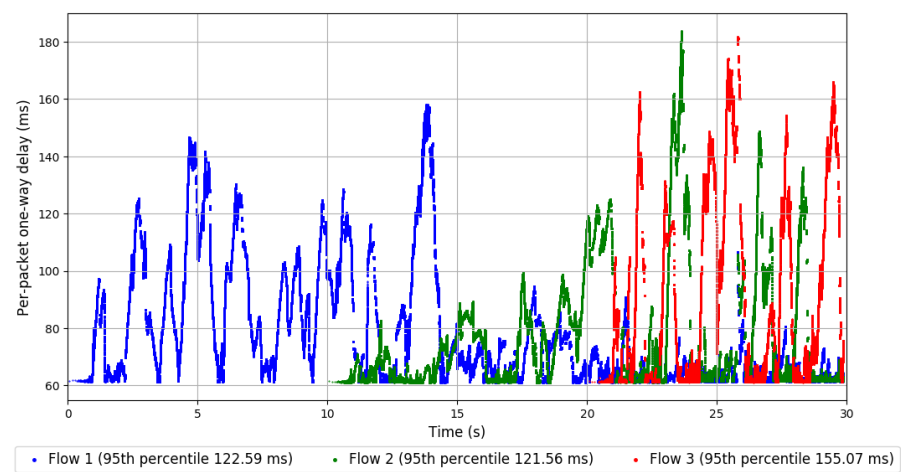
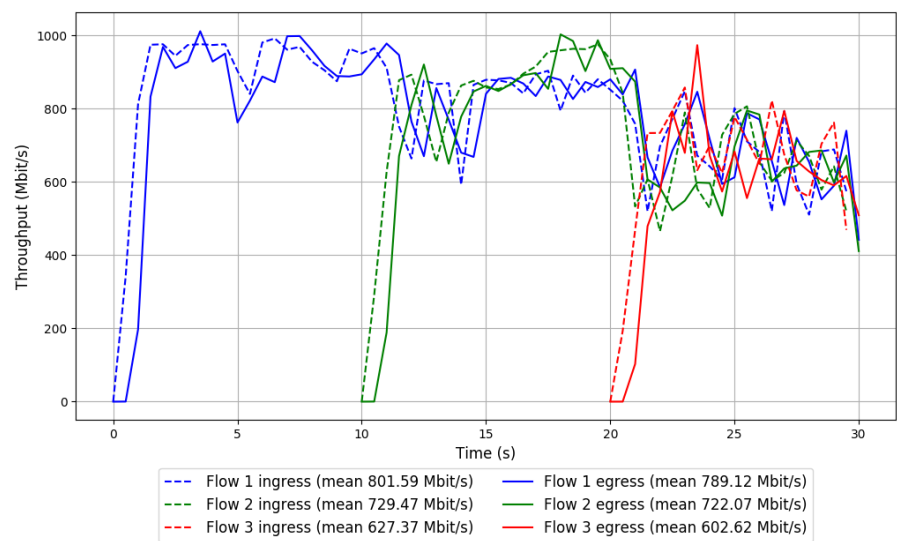
Run 7: Statistics of FillP

Start at: 2018-08-11 23:48:34  
End at: 2018-08-11 23:49:04  
Local clock offset: 0.006 ms  
Remote clock offset: -0.156 ms

# Below is generated by plot.py at 2018-08-12 02:53:28  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1466.81 Mbit/s  
95th percentile per-packet one-way delay: 129.812 ms  
Loss rate: 2.30%  
-- Flow 1:  
Average throughput: 789.12 Mbit/s  
95th percentile per-packet one-way delay: 122.594 ms  
Loss rate: 1.97%  
-- Flow 2:  
Average throughput: 722.07 Mbit/s  
95th percentile per-packet one-way delay: 121.555 ms  
Loss rate: 1.63%  
-- Flow 3:  
Average throughput: 602.62 Mbit/s  
95th percentile per-packet one-way delay: 155.068 ms  
Loss rate: 5.12%



Run 7: Report of FillP — Data Link

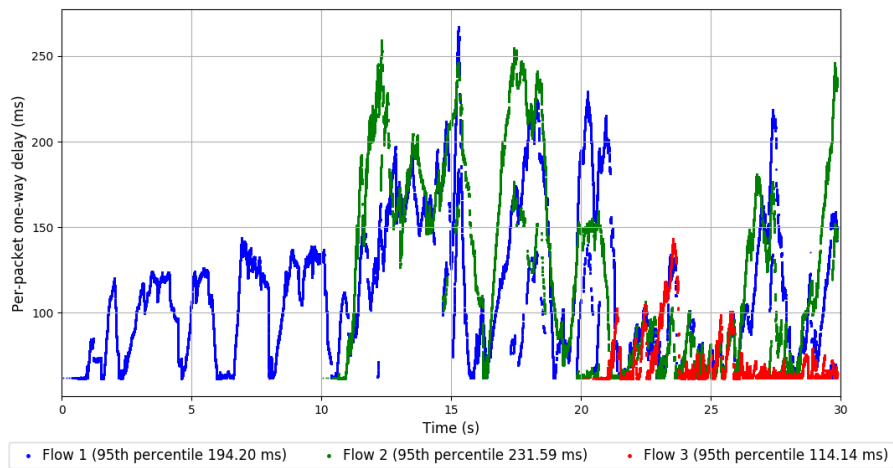
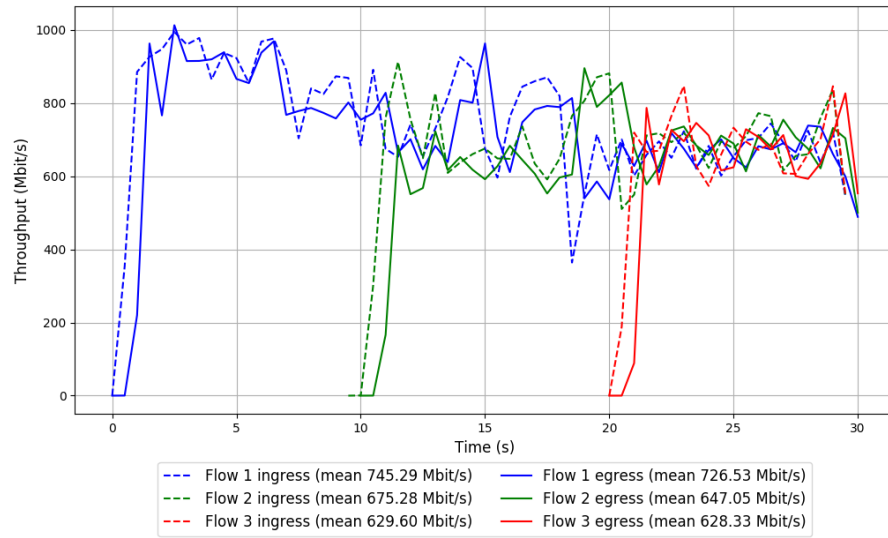


Run 8: Statistics of FillP

Start at: 2018-08-12 00:15:29  
End at: 2018-08-12 00:15:59  
Local clock offset: -0.066 ms  
Remote clock offset: -0.728 ms

# Below is generated by plot.py at 2018-08-12 02:53:28  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1362.88 Mbit/s  
95th percentile per-packet one-way delay: 208.861 ms  
Loss rate: 3.26%  
-- Flow 1:  
Average throughput: 726.53 Mbit/s  
95th percentile per-packet one-way delay: 194.198 ms  
Loss rate: 2.92%  
-- Flow 2:  
Average throughput: 647.05 Mbit/s  
95th percentile per-packet one-way delay: 231.590 ms  
Loss rate: 4.76%  
-- Flow 3:  
Average throughput: 628.33 Mbit/s  
95th percentile per-packet one-way delay: 114.145 ms  
Loss rate: 1.26%

## Run 8: Report of FillP — Data Link

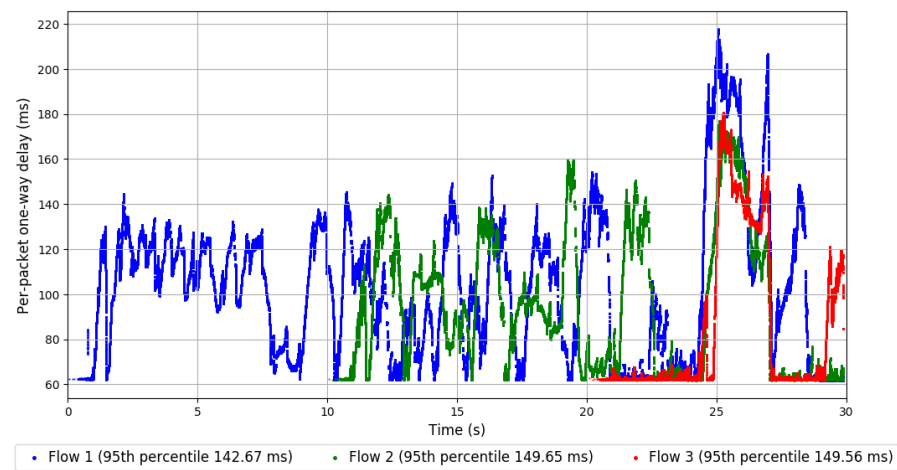
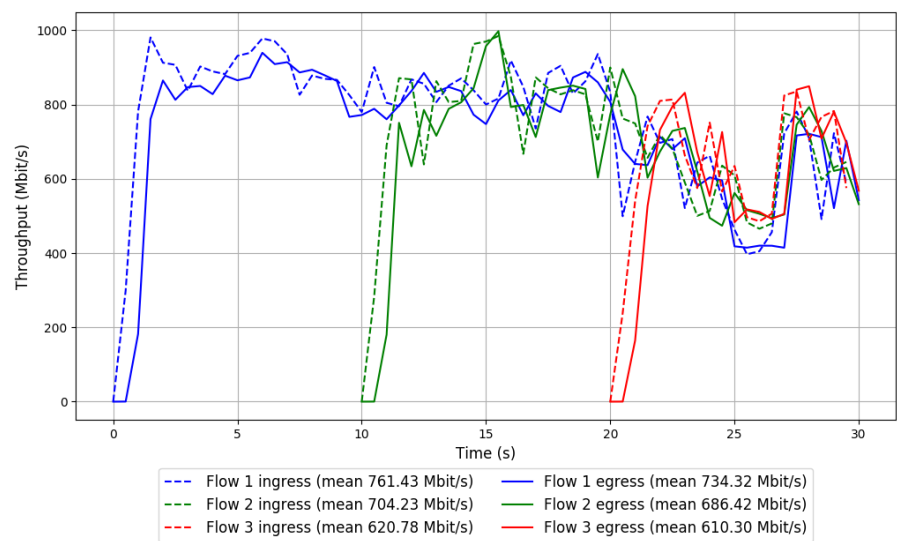


Run 9: Statistics of FillP

Start at: 2018-08-12 00:42:06  
End at: 2018-08-12 00:42:36  
Local clock offset: -0.033 ms  
Remote clock offset: -0.981 ms

# Below is generated by plot.py at 2018-08-12 03:17:34  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1390.65 Mbit/s  
95th percentile per-packet one-way delay: 146.934 ms  
Loss rate: 3.53%  
-- Flow 1:  
Average throughput: 734.32 Mbit/s  
95th percentile per-packet one-way delay: 142.667 ms  
Loss rate: 3.93%  
-- Flow 2:  
Average throughput: 686.42 Mbit/s  
95th percentile per-packet one-way delay: 149.647 ms  
Loss rate: 3.13%  
-- Flow 3:  
Average throughput: 610.30 Mbit/s  
95th percentile per-packet one-way delay: 149.565 ms  
Loss rate: 2.91%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-08-12 01:08:40

End at: 2018-08-12 01:09:10

Local clock offset: -0.058 ms

Remote clock offset: 0.022 ms

# Below is generated by plot.py at 2018-08-12 03:17:34

# Datalink statistics

-- Total of 3 flows:

Average throughput: 1269.11 Mbit/s

95th percentile per-packet one-way delay: 206.954 ms

Loss rate: 4.18%

-- Flow 1:

Average throughput: 659.72 Mbit/s

95th percentile per-packet one-way delay: 217.065 ms

Loss rate: 4.90%

-- Flow 2:

Average throughput: 633.42 Mbit/s

95th percentile per-packet one-way delay: 206.630 ms

Loss rate: 3.25%

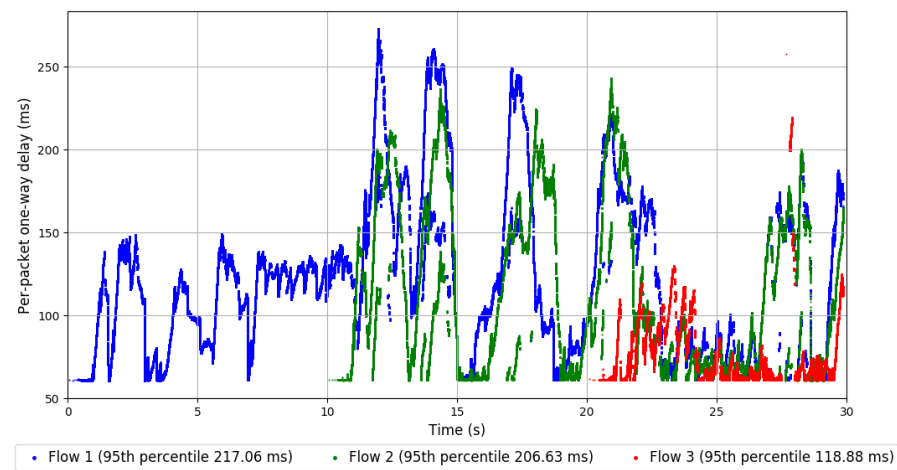
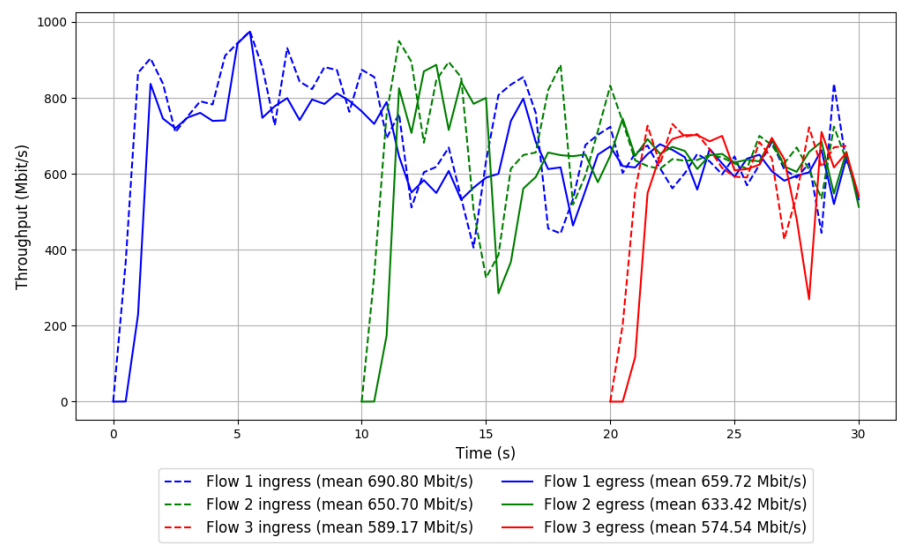
-- Flow 3:

Average throughput: 574.54 Mbit/s

95th percentile per-packet one-way delay: 118.875 ms

Loss rate: 3.70%

Run 10: Report of FillP — Data Link



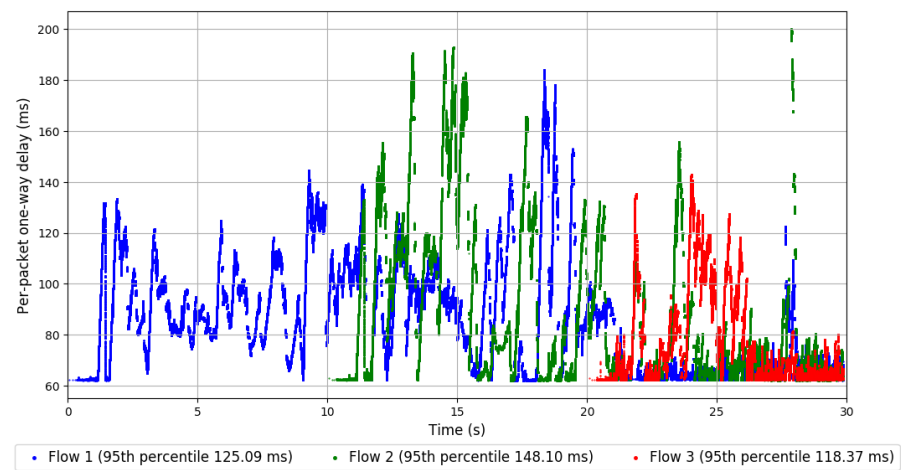
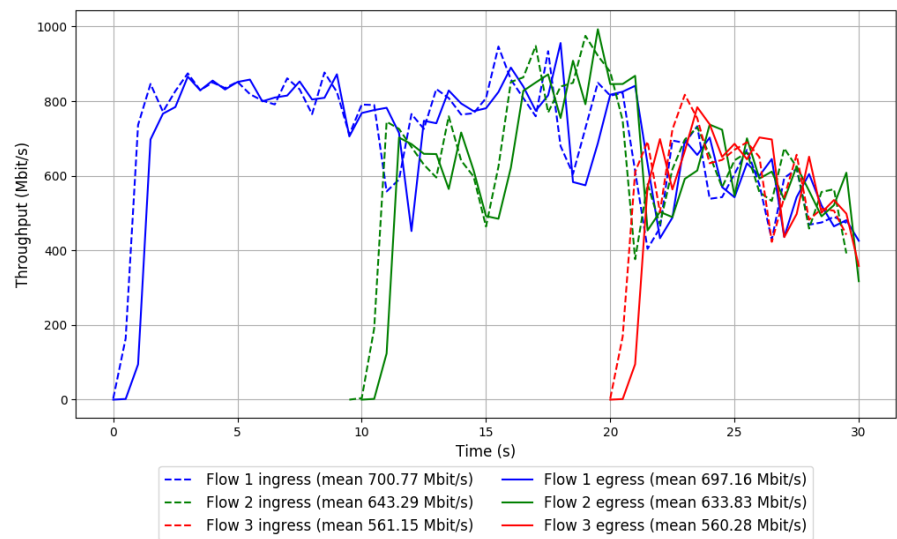
Run 1: Statistics of FillP-Sheep

Start at: 2018-08-11 21:05:28  
End at: 2018-08-11 21:05:58  
Local clock offset: 0.046 ms  
Remote clock offset: -1.358 ms

# Below is generated by plot.py at 2018-08-12 03:17:34  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1302.33 Mbit/s  
95th percentile per-packet one-way delay: 130.615 ms  
Loss rate: 1.37%  
-- Flow 1:  
Average throughput: 697.16 Mbit/s  
95th percentile per-packet one-way delay: 125.087 ms  
Loss rate: 0.92%  
-- Flow 2:  
Average throughput: 633.83 Mbit/s  
95th percentile per-packet one-way delay: 148.101 ms  
Loss rate: 2.14%  
-- Flow 3:  
Average throughput: 560.28 Mbit/s  
95th percentile per-packet one-way delay: 118.367 ms  
Loss rate: 1.32%



Run 1: Report of FillP-Sheep — Data Link

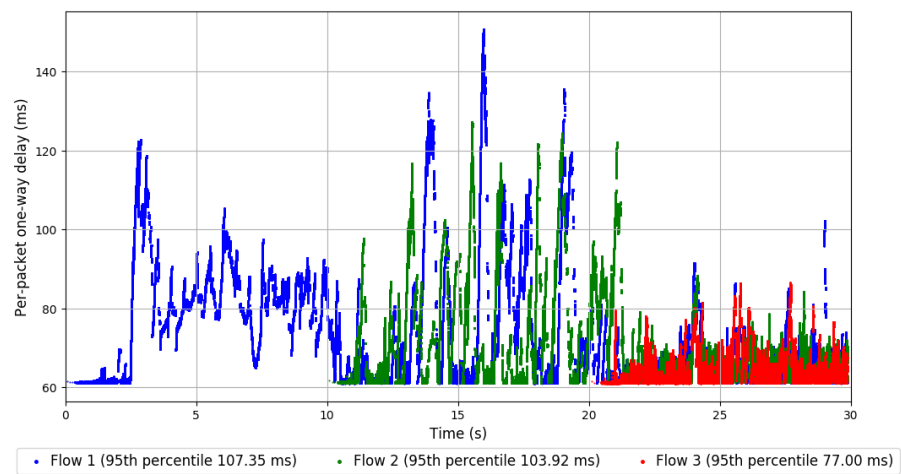
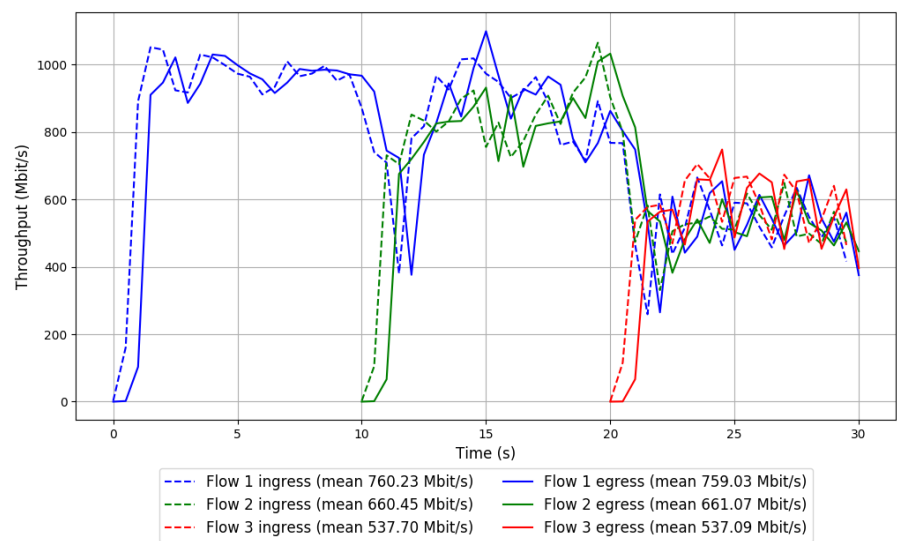


Run 2: Statistics of FillP-Sheep

Start at: 2018-08-11 21:32:05  
End at: 2018-08-11 21:32:35  
Local clock offset: -0.017 ms  
Remote clock offset: -0.171 ms

# Below is generated by plot.py at 2018-08-12 03:18:38  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1374.29 Mbit/s  
95th percentile per-packet one-way delay: 103.927 ms  
Loss rate: 0.63%  
-- Flow 1:  
Average throughput: 759.03 Mbit/s  
95th percentile per-packet one-way delay: 107.351 ms  
Loss rate: 0.51%  
-- Flow 2:  
Average throughput: 661.07 Mbit/s  
95th percentile per-packet one-way delay: 103.916 ms  
Loss rate: 0.53%  
-- Flow 3:  
Average throughput: 537.09 Mbit/s  
95th percentile per-packet one-way delay: 77.002 ms  
Loss rate: 1.37%

Run 2: Report of FillP-Sheep — Data Link

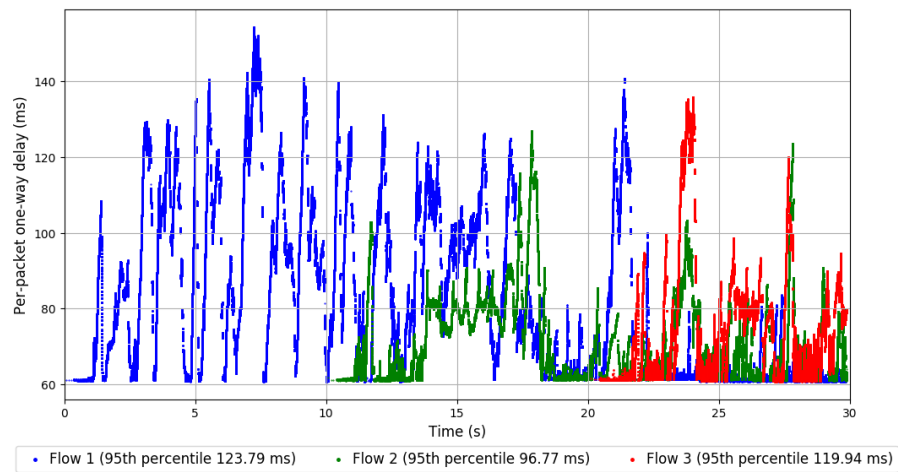
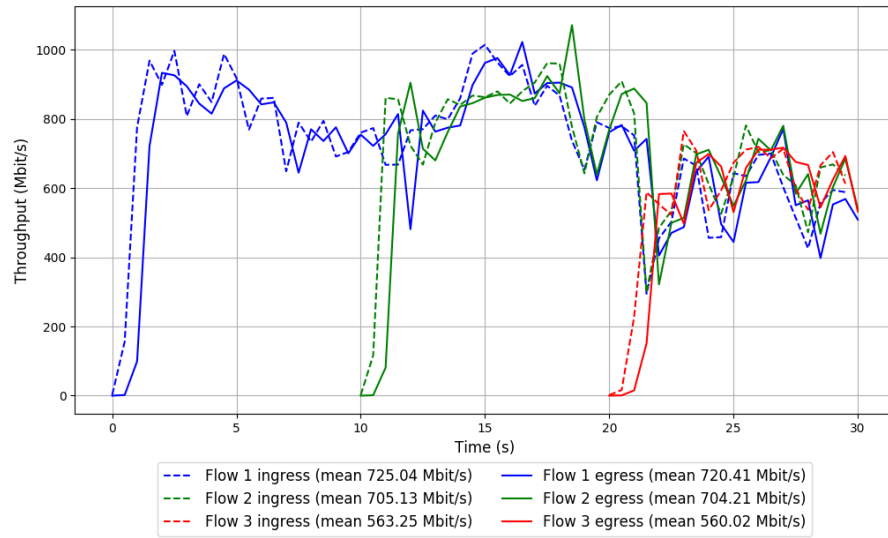


Run 3: Statistics of FillP-Sheep

Start at: 2018-08-11 21:58:50  
End at: 2018-08-11 21:59:20  
Local clock offset: -0.12 ms  
Remote clock offset: -0.135 ms

# Below is generated by plot.py at 2018-08-12 03:20:20  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1371.29 Mbit/s  
95th percentile per-packet one-way delay: 119.806 ms  
Loss rate: 1.07%  
-- Flow 1:  
Average throughput: 720.41 Mbit/s  
95th percentile per-packet one-way delay: 123.790 ms  
Loss rate: 1.07%  
-- Flow 2:  
Average throughput: 704.21 Mbit/s  
95th percentile per-packet one-way delay: 96.774 ms  
Loss rate: 0.76%  
-- Flow 3:  
Average throughput: 560.02 Mbit/s  
95th percentile per-packet one-way delay: 119.939 ms  
Loss rate: 1.83%

### Run 3: Report of FillP-Sheep — Data Link

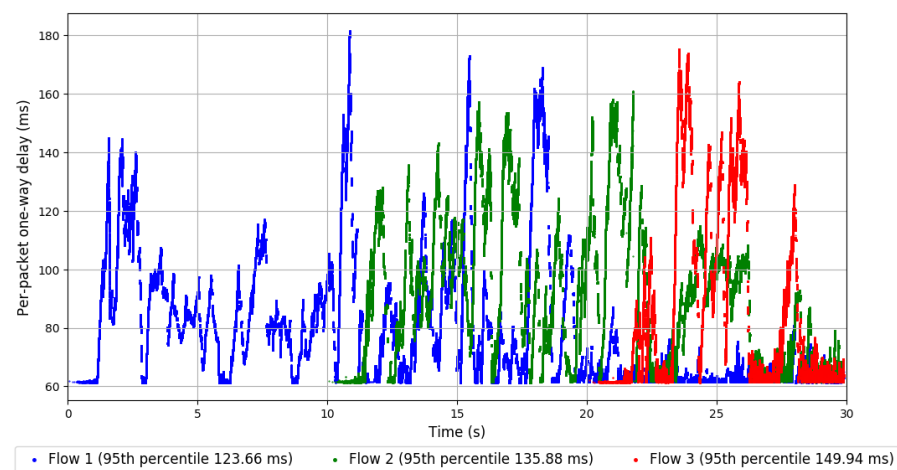
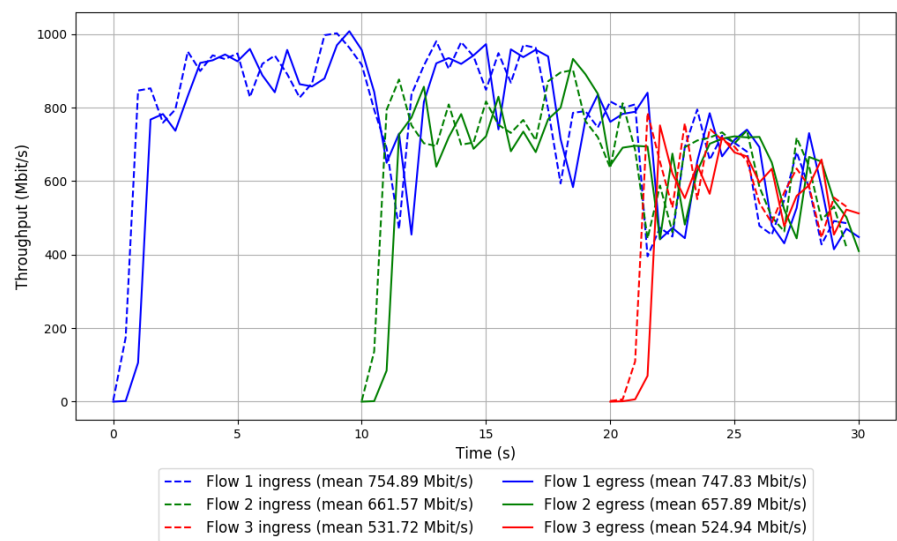


Run 4: Statistics of FillP-Sheep

Start at: 2018-08-11 22:25:49  
End at: 2018-08-11 22:26:19  
Local clock offset: 0.013 ms  
Remote clock offset: -0.614 ms

# Below is generated by plot.py at 2018-08-12 03:22:06  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1357.17 Mbit/s  
95th percentile per-packet one-way delay: 135.608 ms  
Loss rate: 1.43%  
-- Flow 1:  
Average throughput: 747.83 Mbit/s  
95th percentile per-packet one-way delay: 123.664 ms  
Loss rate: 1.34%  
-- Flow 2:  
Average throughput: 657.89 Mbit/s  
95th percentile per-packet one-way delay: 135.881 ms  
Loss rate: 1.17%  
-- Flow 3:  
Average throughput: 524.94 Mbit/s  
95th percentile per-packet one-way delay: 149.939 ms  
Loss rate: 2.50%

Run 4: Report of FillP-Sheep — Data Link



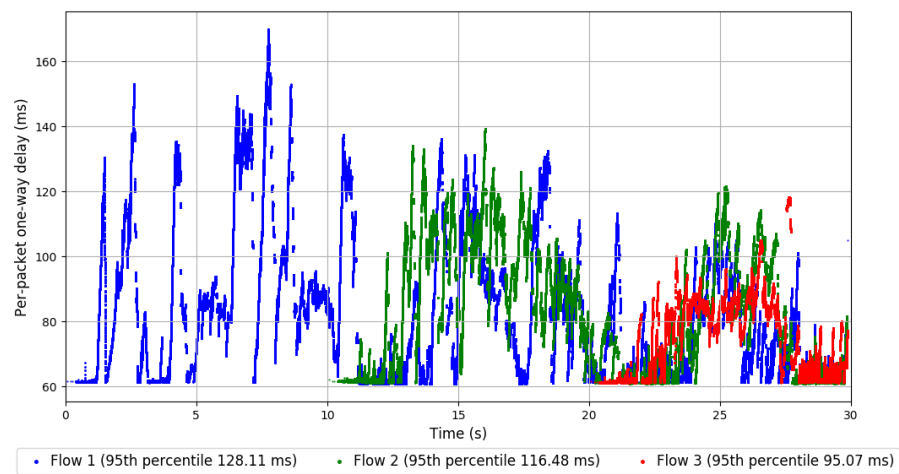
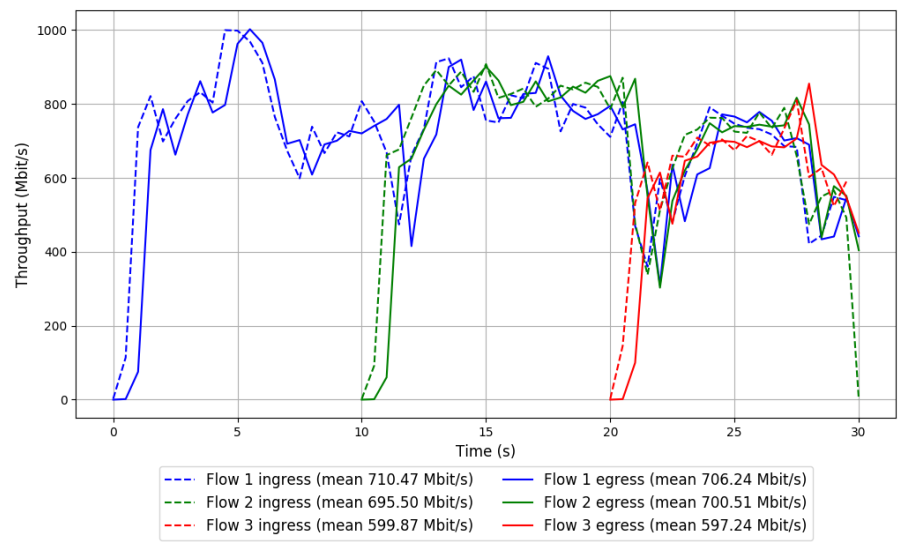
Run 5: Statistics of FillP-Sheep

Start at: 2018-08-11 22:52:45  
End at: 2018-08-11 22:53:15  
Local clock offset: -0.076 ms  
Remote clock offset: -0.286 ms

# Below is generated by plot.py at 2018-08-12 03:22:59  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1367.22 Mbit/s  
95th percentile per-packet one-way delay: 120.957 ms  
Loss rate: 1.04%  
-- Flow 1:  
Average throughput: 706.24 Mbit/s  
95th percentile per-packet one-way delay: 128.114 ms  
Loss rate: 0.98%  
-- Flow 2:  
Average throughput: 700.51 Mbit/s  
95th percentile per-packet one-way delay: 116.485 ms  
Loss rate: 0.85%  
-- Flow 3:  
Average throughput: 597.24 Mbit/s  
95th percentile per-packet one-way delay: 95.074 ms  
Loss rate: 1.68%



Run 5: Report of FillP-Sheep — Data Link



Run 6: Statistics of FillP-Sheep

Start at: 2018-08-11 23:19:44

End at: 2018-08-11 23:20:14

Local clock offset: -0.009 ms

Remote clock offset: 0.257 ms

# Below is generated by plot.py at 2018-08-12 03:23:36

# Datalink statistics

-- Total of 3 flows:

Average throughput: 1322.30 Mbit/s

95th percentile per-packet one-way delay: 127.321 ms

Loss rate: 1.02%

-- Flow 1:

Average throughput: 697.65 Mbit/s

95th percentile per-packet one-way delay: 130.794 ms

Loss rate: 0.85%

-- Flow 2:

Average throughput: 678.91 Mbit/s

95th percentile per-packet one-way delay: 115.206 ms

Loss rate: 1.15%

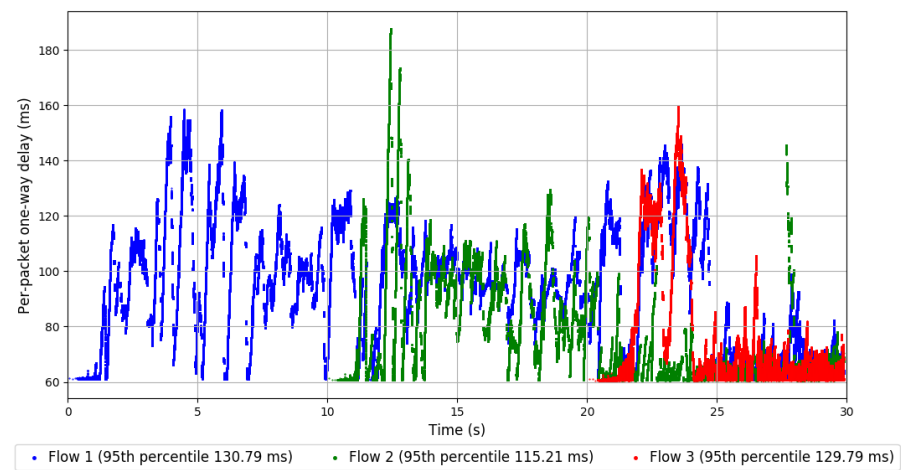
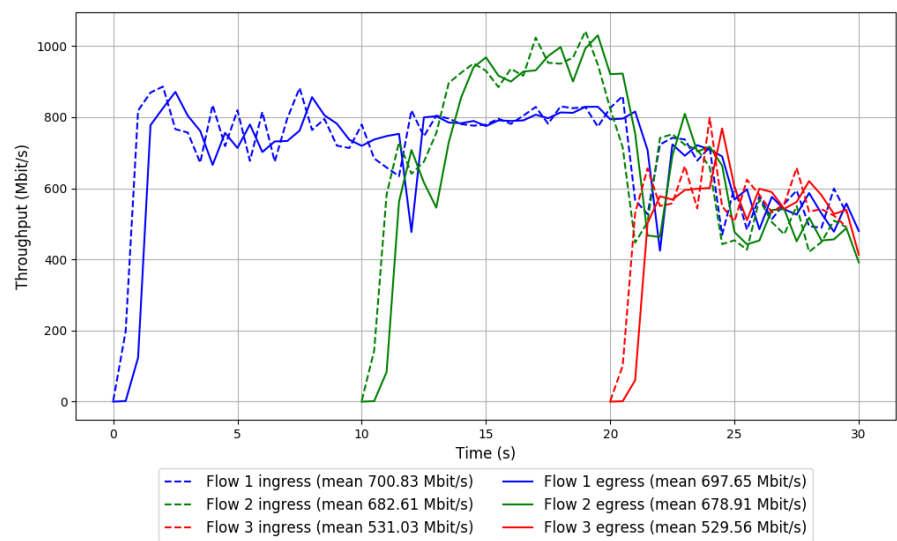
-- Flow 3:

Average throughput: 529.56 Mbit/s

95th percentile per-packet one-way delay: 129.787 ms

Loss rate: 1.35%

Run 6: Report of FillP-Sheep — Data Link

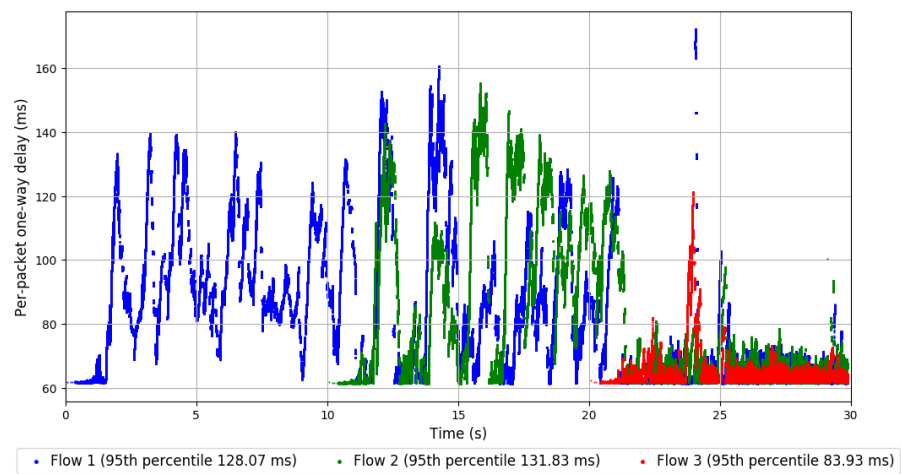
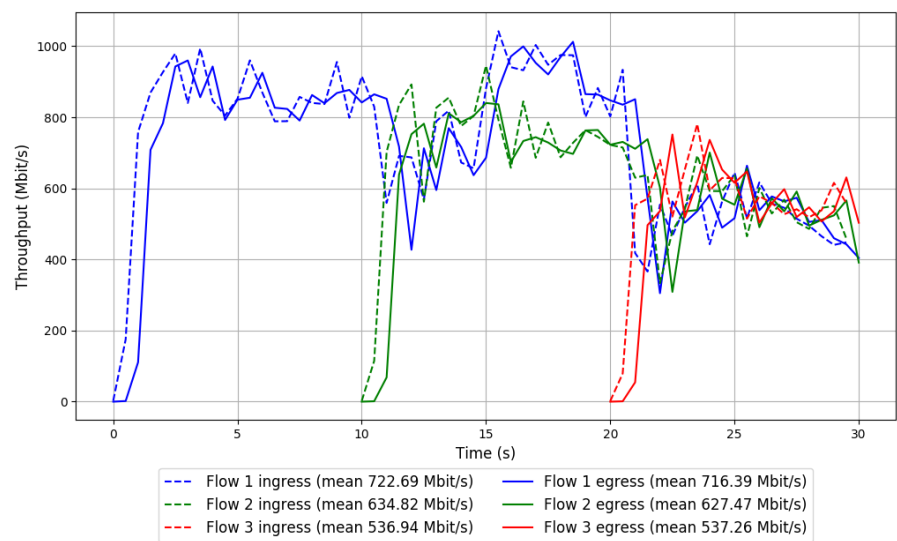


Run 7: Statistics of FillP-Sheep

Start at: 2018-08-11 23:46:30  
End at: 2018-08-11 23:47:00  
Local clock offset: 0.014 ms  
Remote clock offset: -0.388 ms

# Below is generated by plot.py at 2018-08-12 03:45:55  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1309.58 Mbit/s  
95th percentile per-packet one-way delay: 128.550 ms  
Loss rate: 1.41%  
-- Flow 1:  
Average throughput: 716.39 Mbit/s  
95th percentile per-packet one-way delay: 128.075 ms  
Loss rate: 1.28%  
-- Flow 2:  
Average throughput: 627.47 Mbit/s  
95th percentile per-packet one-way delay: 131.830 ms  
Loss rate: 1.78%  
-- Flow 3:  
Average throughput: 537.26 Mbit/s  
95th percentile per-packet one-way delay: 83.933 ms  
Loss rate: 1.07%

Run 7: Report of FillP-Sheep — Data Link



Run 8: Statistics of FillP-Sheep

Start at: 2018-08-12 00:13:22

End at: 2018-08-12 00:13:52

Local clock offset: -0.032 ms

Remote clock offset: 0.739 ms

# Below is generated by plot.py at 2018-08-12 03:47:10

# Datalink statistics

-- Total of 3 flows:

Average throughput: 1342.14 Mbit/s

95th percentile per-packet one-way delay: 115.542 ms

Loss rate: 0.75%

-- Flow 1:

Average throughput: 712.09 Mbit/s

95th percentile per-packet one-way delay: 120.606 ms

Loss rate: 0.53%

-- Flow 2:

Average throughput: 662.03 Mbit/s

95th percentile per-packet one-way delay: 102.083 ms

Loss rate: 0.98%

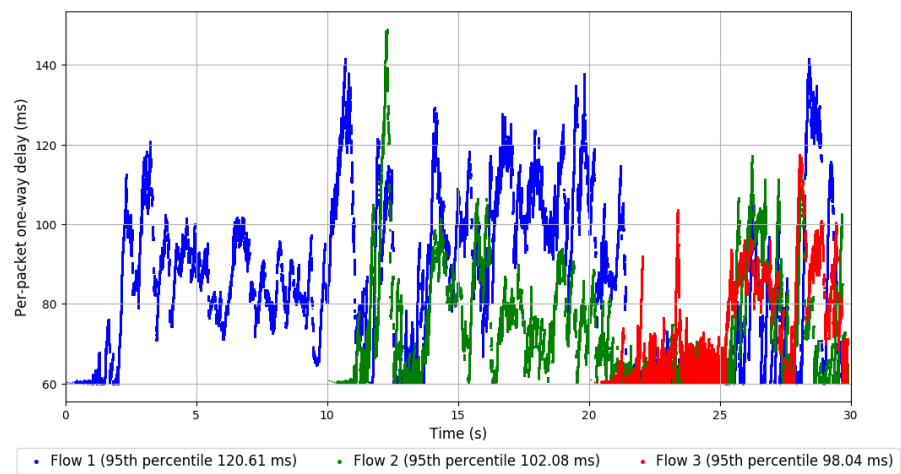
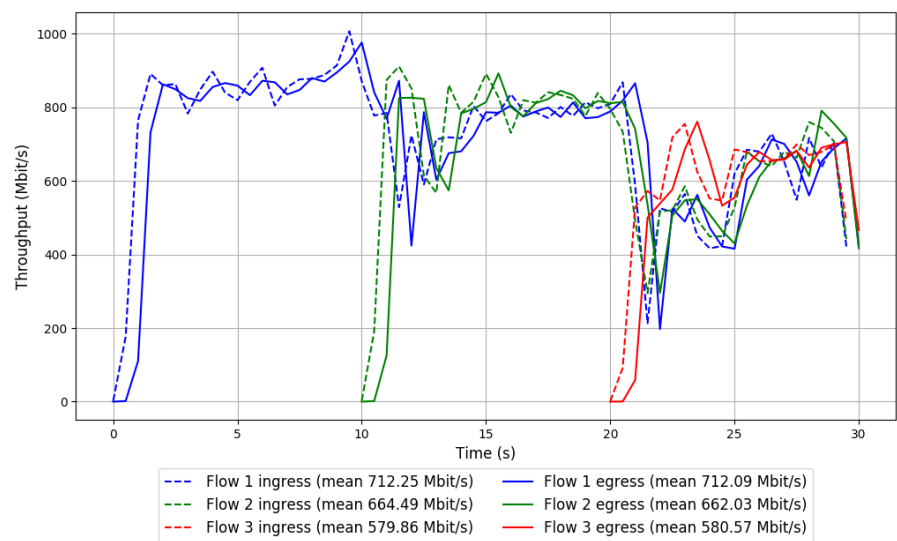
-- Flow 3:

Average throughput: 580.57 Mbit/s

95th percentile per-packet one-way delay: 98.037 ms

Loss rate: 1.07%

Run 8: Report of FillP-Sheep — Data Link



Run 9: Statistics of FillP-Sheep

Start at: 2018-08-12 00:40:03

End at: 2018-08-12 00:40:33

Local clock offset: -0.062 ms

Remote clock offset: 0.253 ms

# Below is generated by plot.py at 2018-08-12 03:47:10

# Datalink statistics

-- Total of 3 flows:

Average throughput: 1259.82 Mbit/s

95th percentile per-packet one-way delay: 149.966 ms

Loss rate: 1.66%

-- Flow 1:

Average throughput: 660.44 Mbit/s

95th percentile per-packet one-way delay: 152.628 ms

Loss rate: 1.68%

-- Flow 2:

Average throughput: 613.23 Mbit/s

95th percentile per-packet one-way delay: 160.442 ms

Loss rate: 1.37%

-- Flow 3:

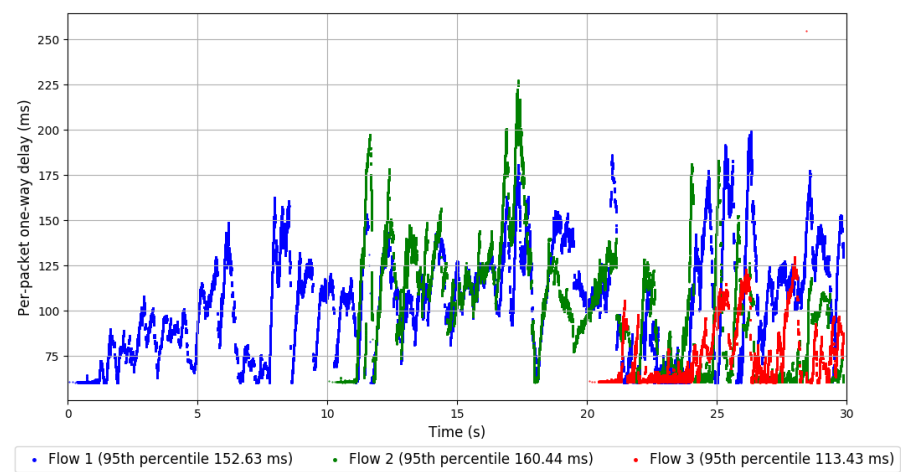
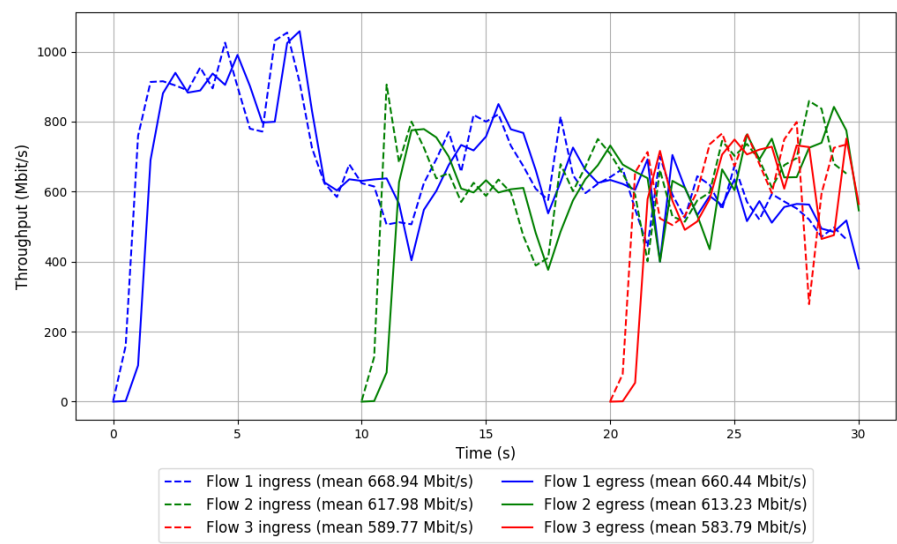
Average throughput: 583.79 Mbit/s

95th percentile per-packet one-way delay: 113.426 ms

Loss rate: 2.25%



Run 9: Report of FillP-Sheep — Data Link

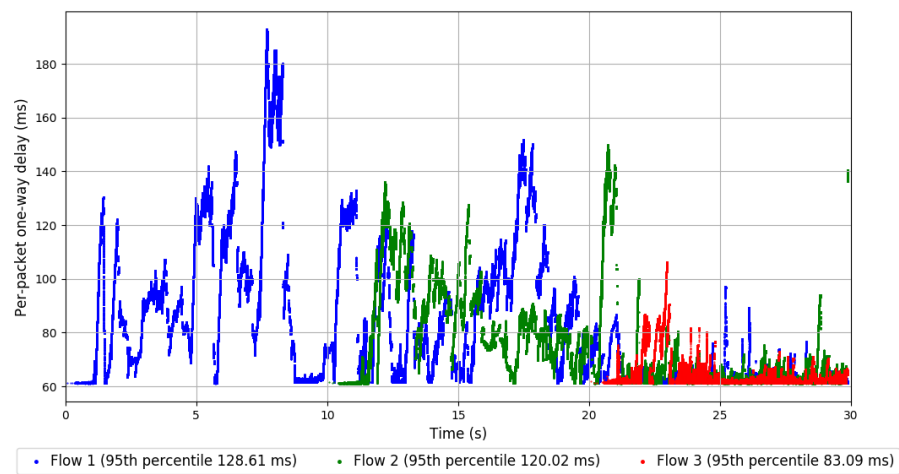
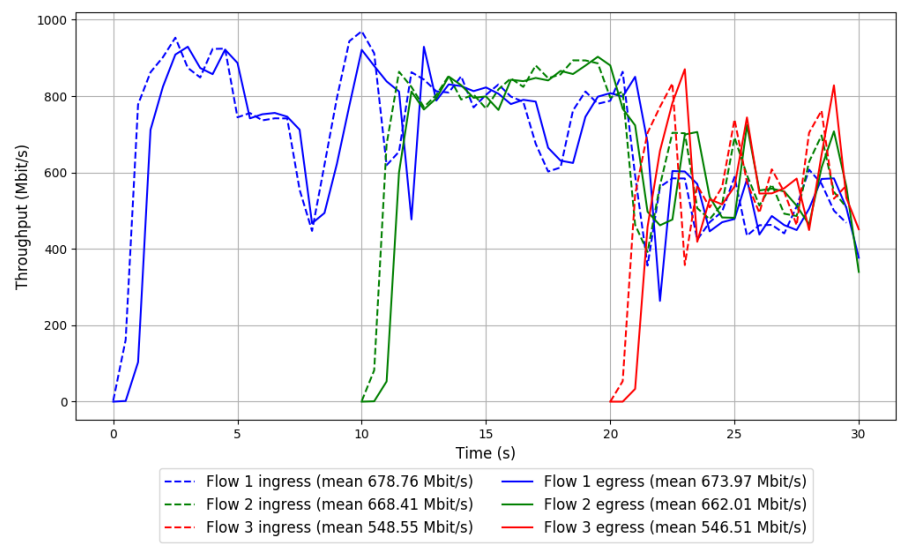


Run 10: Statistics of FillP-Sheep

Start at: 2018-08-12 01:06:36  
End at: 2018-08-12 01:07:06  
Local clock offset: -0.128 ms  
Remote clock offset: -0.266 ms

# Below is generated by plot.py at 2018-08-12 03:48:27  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1293.53 Mbit/s  
95th percentile per-packet one-way delay: 124.815 ms  
Loss rate: 1.33%  
-- Flow 1:  
Average throughput: 673.97 Mbit/s  
95th percentile per-packet one-way delay: 128.609 ms  
Loss rate: 1.12%  
-- Flow 2:  
Average throughput: 662.01 Mbit/s  
95th percentile per-packet one-way delay: 120.018 ms  
Loss rate: 1.54%  
-- Flow 3:  
Average throughput: 546.51 Mbit/s  
95th percentile per-packet one-way delay: 83.090 ms  
Loss rate: 1.62%

Run 10: Report of FillP-Sheep — Data Link

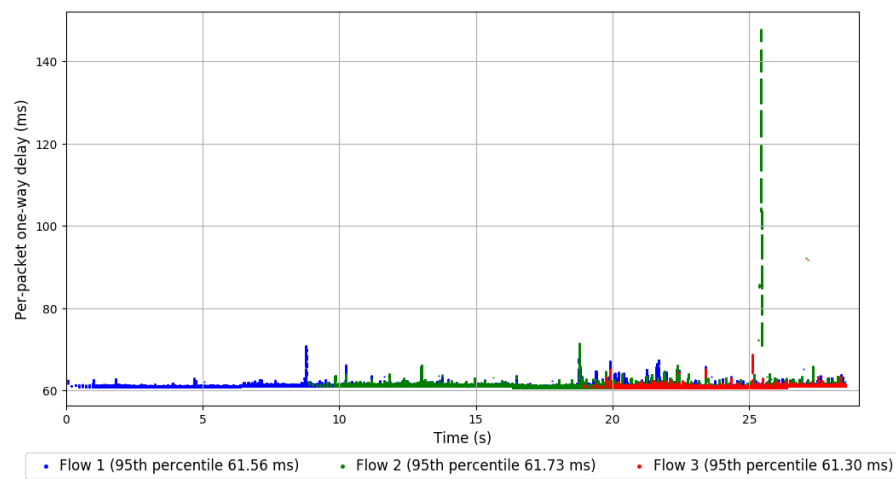
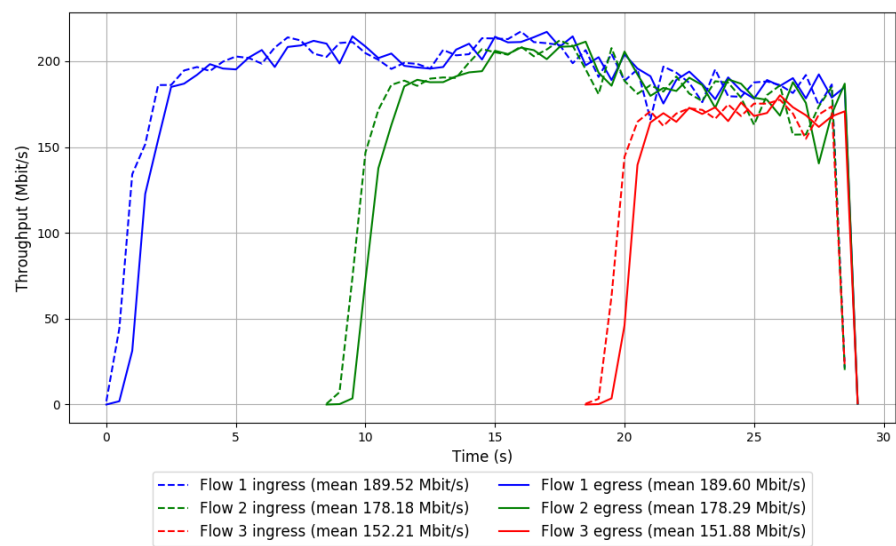


```
Run 1: Statistics of Indigo

Start at: 2018-08-11 20:55:57
End at: 2018-08-11 20:56:27
Local clock offset: 0.109 ms
Remote clock offset: -0.084 ms

# Below is generated by plot.py at 2018-08-12 03:48:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 363.64 Mbit/s
95th percentile per-packet one-way delay: 61.577 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 189.60 Mbit/s
95th percentile per-packet one-way delay: 61.561 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 178.29 Mbit/s
95th percentile per-packet one-way delay: 61.734 ms
Loss rate: 0.56%
-- Flow 3:
Average throughput: 151.88 Mbit/s
95th percentile per-packet one-way delay: 61.301 ms
Loss rate: 1.48%
```

Run 1: Report of Indigo — Data Link

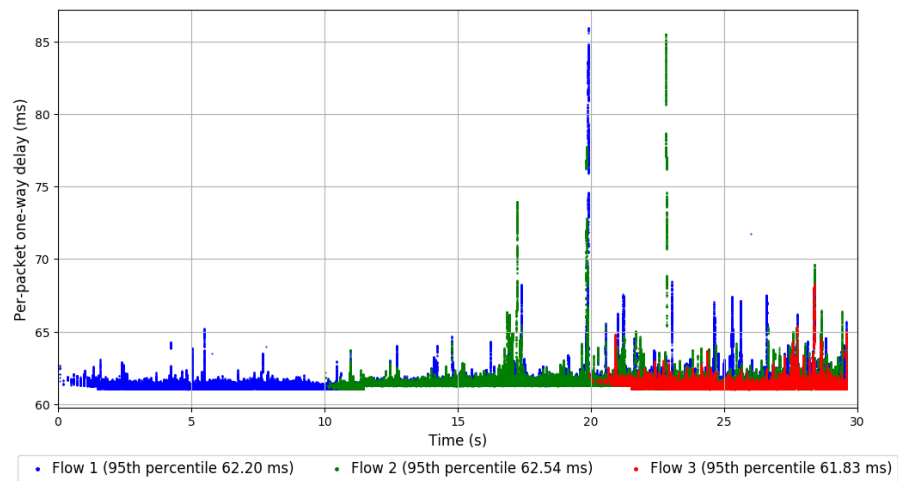
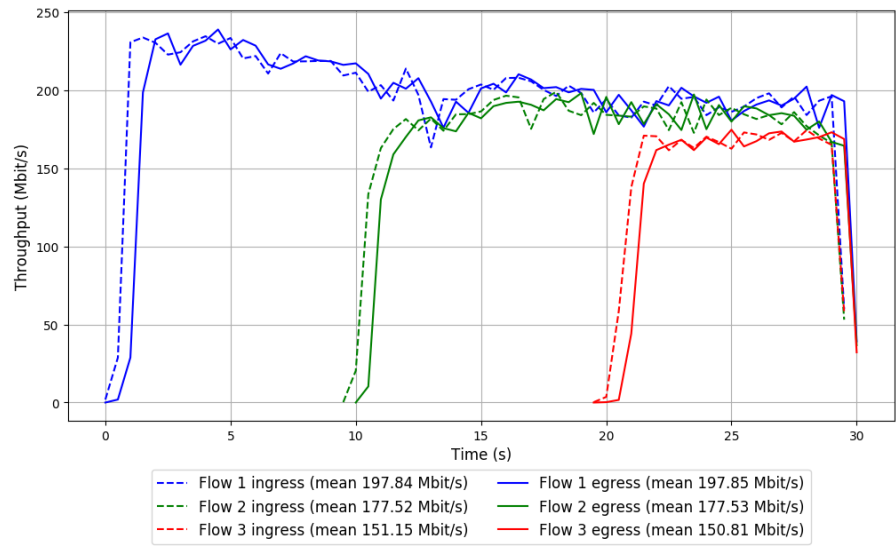


Run 2: Statistics of Indigo

Start at: 2018-08-11 21:22:33  
End at: 2018-08-11 21:23:03  
Local clock offset: 0.067 ms  
Remote clock offset: -0.488 ms

# Below is generated by plot.py at 2018-08-12 03:48:27  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 364.72 Mbit/s  
95th percentile per-packet one-way delay: 62.250 ms  
Loss rate: 0.62%  
-- Flow 1:  
Average throughput: 197.85 Mbit/s  
95th percentile per-packet one-way delay: 62.197 ms  
Loss rate: 0.41%  
-- Flow 2:  
Average throughput: 177.53 Mbit/s  
95th percentile per-packet one-way delay: 62.542 ms  
Loss rate: 0.63%  
-- Flow 3:  
Average throughput: 150.81 Mbit/s  
95th percentile per-packet one-way delay: 61.828 ms  
Loss rate: 1.47%

## Run 2: Report of Indigo — Data Link



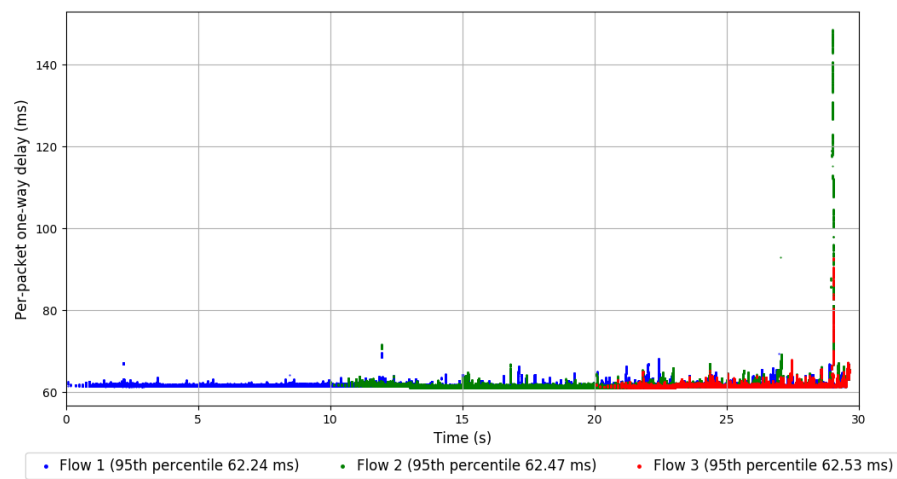
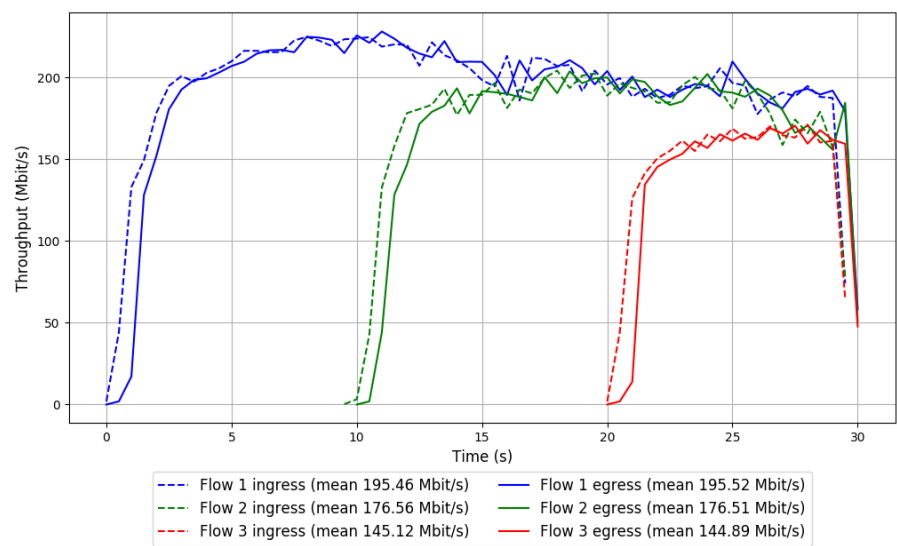
Run 3: Statistics of Indigo

Start at: 2018-08-11 21:49:21  
End at: 2018-08-11 21:49:51  
Local clock offset: -0.14 ms  
Remote clock offset: -0.628 ms

# Below is generated by plot.py at 2018-08-12 03:48:27  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 359.50 Mbit/s  
95th percentile per-packet one-way delay: 62.348 ms  
Loss rate: 0.60%  
-- Flow 1:  
Average throughput: 195.52 Mbit/s  
95th percentile per-packet one-way delay: 62.238 ms  
Loss rate: 0.38%  
-- Flow 2:  
Average throughput: 176.51 Mbit/s  
95th percentile per-packet one-way delay: 62.469 ms  
Loss rate: 0.65%  
-- Flow 3:  
Average throughput: 144.89 Mbit/s  
95th percentile per-packet one-way delay: 62.532 ms  
Loss rate: 1.41%



Run 3: Report of Indigo — Data Link

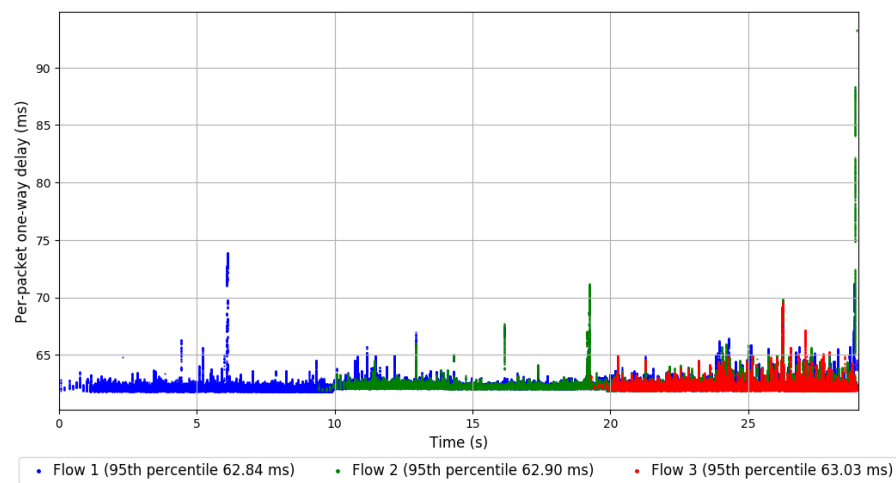
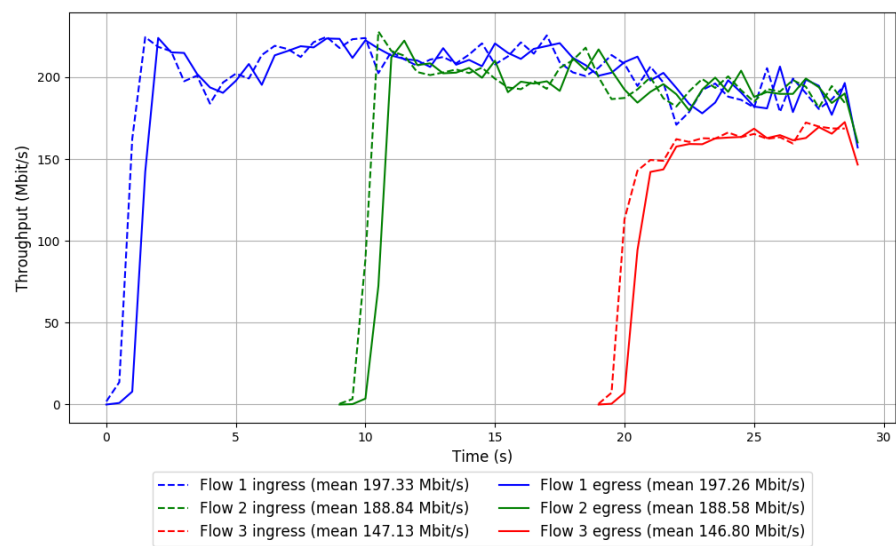


Run 4: Statistics of Indigo

Start at: 2018-08-11 22:16:14  
End at: 2018-08-11 22:16:44  
Local clock offset: -0.004 ms  
Remote clock offset: -0.912 ms

# Below is generated by plot.py at 2018-08-12 03:48:27  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 373.69 Mbit/s  
95th percentile per-packet one-way delay: 62.889 ms  
Loss rate: 0.66%  
-- Flow 1:  
Average throughput: 197.26 Mbit/s  
95th percentile per-packet one-way delay: 62.844 ms  
Loss rate: 0.45%  
-- Flow 2:  
Average throughput: 188.58 Mbit/s  
95th percentile per-packet one-way delay: 62.895 ms  
Loss rate: 0.68%  
-- Flow 3:  
Average throughput: 146.80 Mbit/s  
95th percentile per-packet one-way delay: 63.031 ms  
Loss rate: 1.47%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-08-11 22:43:11

End at: 2018-08-11 22:43:41

Local clock offset: -0.054 ms

Remote clock offset: 0.572 ms

# Below is generated by plot.py at 2018-08-12 03:48:27

# Datalink statistics

-- Total of 3 flows:

Average throughput: 375.75 Mbit/s

95th percentile per-packet one-way delay: 61.323 ms

Loss rate: 0.65%

-- Flow 1:

Average throughput: 206.12 Mbit/s

95th percentile per-packet one-way delay: 61.188 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 181.66 Mbit/s

95th percentile per-packet one-way delay: 61.445 ms

Loss rate: 0.70%

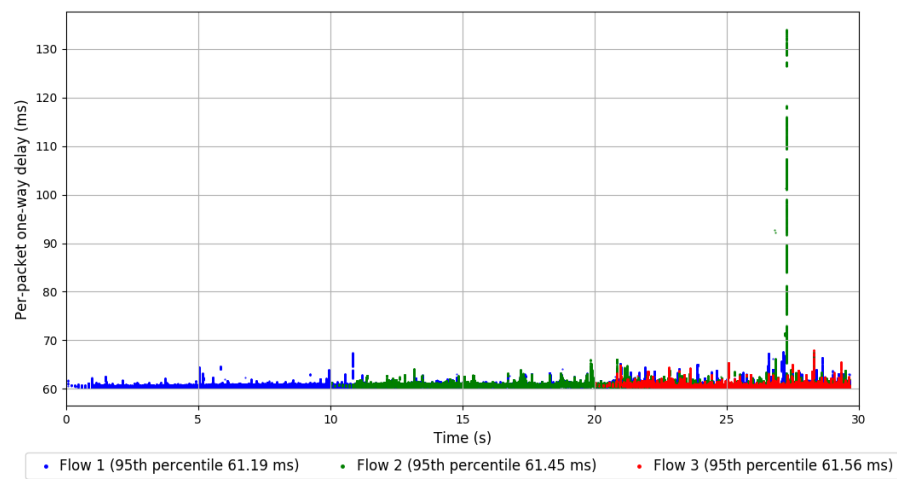
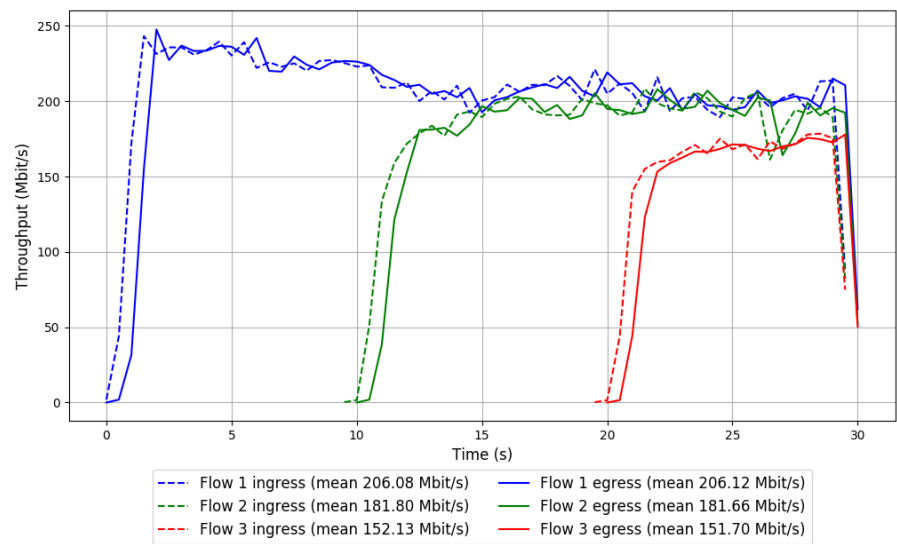
-- Flow 3:

Average throughput: 151.70 Mbit/s

95th percentile per-packet one-way delay: 61.560 ms

Loss rate: 1.54%

Run 5: Report of Indigo — Data Link

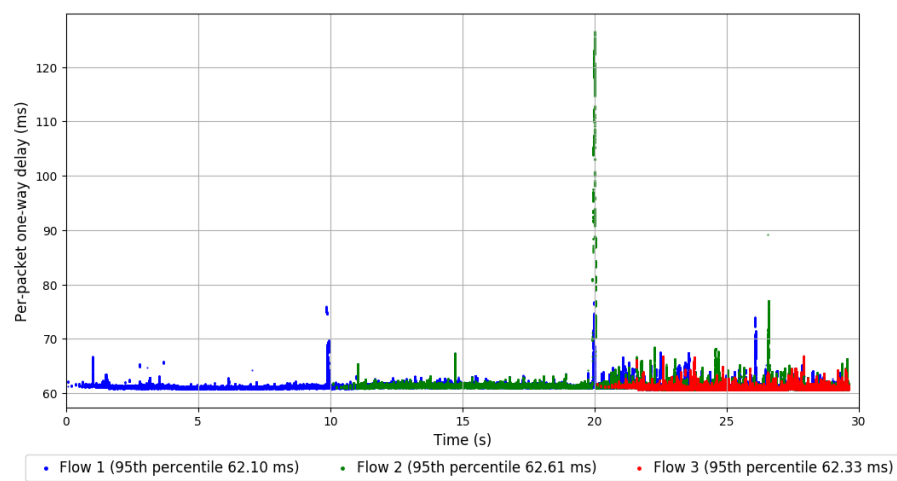
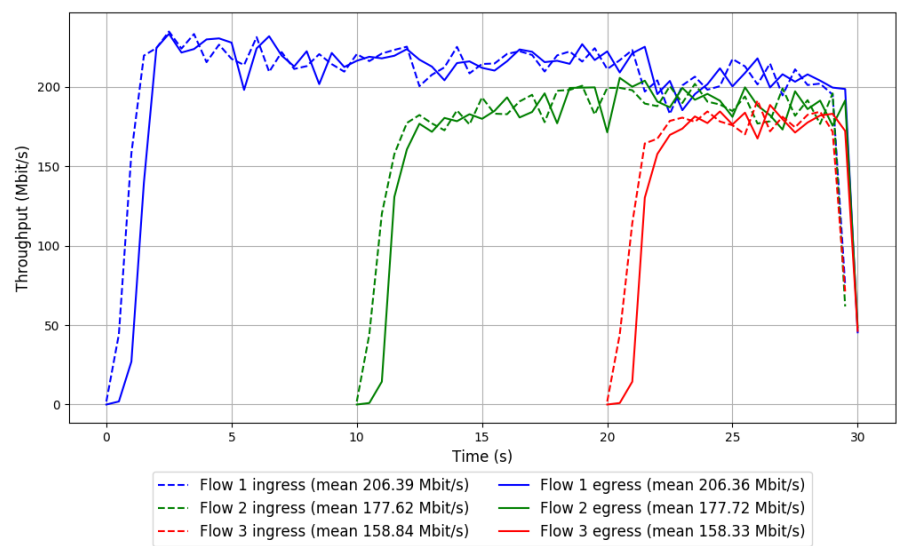


Run 6: Statistics of Indigo

Start at: 2018-08-11 23:10:13  
End at: 2018-08-11 23:10:43  
Local clock offset: -0.015 ms  
Remote clock offset: -0.012 ms

# Below is generated by plot.py at 2018-08-12 03:48:27  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 374.78 Mbit/s  
95th percentile per-packet one-way delay: 62.292 ms  
Loss rate: 0.63%  
-- Flow 1:  
Average throughput: 206.36 Mbit/s  
95th percentile per-packet one-way delay: 62.097 ms  
Loss rate: 0.43%  
-- Flow 2:  
Average throughput: 177.72 Mbit/s  
95th percentile per-packet one-way delay: 62.611 ms  
Loss rate: 0.57%  
-- Flow 3:  
Average throughput: 158.33 Mbit/s  
95th percentile per-packet one-way delay: 62.326 ms  
Loss rate: 1.59%

Run 6: Report of Indigo — Data Link



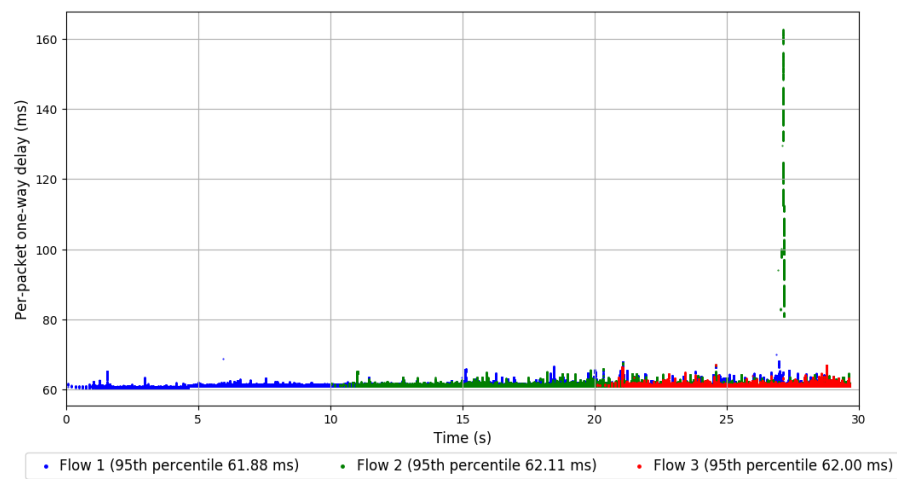
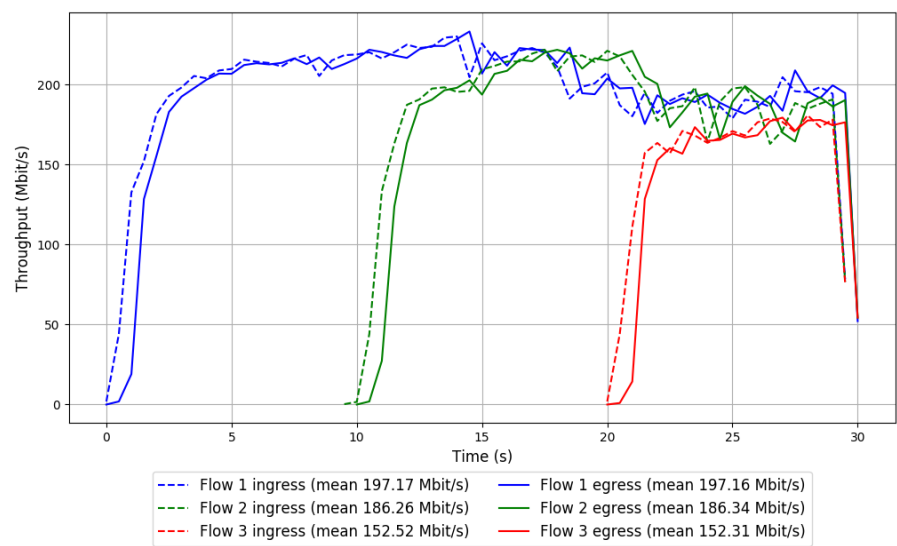
Run 7: Statistics of Indigo

Start at: 2018-08-11 23:37:00  
End at: 2018-08-11 23:37:30  
Local clock offset: -0.005 ms  
Remote clock offset: 0.226 ms

# Below is generated by plot.py at 2018-08-12 03:48:27  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 369.82 Mbit/s  
95th percentile per-packet one-way delay: 61.978 ms  
Loss rate: 0.62%  
-- Flow 1:  
Average throughput: 197.16 Mbit/s  
95th percentile per-packet one-way delay: 61.878 ms  
Loss rate: 0.42%  
-- Flow 2:  
Average throughput: 186.34 Mbit/s  
95th percentile per-packet one-way delay: 62.109 ms  
Loss rate: 0.60%  
-- Flow 3:  
Average throughput: 152.31 Mbit/s  
95th percentile per-packet one-way delay: 62.002 ms  
Loss rate: 1.46%



Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2018-08-12 00:03:49

End at: 2018-08-12 00:04:19

Local clock offset: -0.02 ms

Remote clock offset: 0.805 ms

# Below is generated by plot.py at 2018-08-12 03:48:27

# Datalink statistics

-- Total of 3 flows:

Average throughput: 359.48 Mbit/s

95th percentile per-packet one-way delay: 60.787 ms

Loss rate: 0.59%

-- Flow 1:

Average throughput: 191.09 Mbit/s

95th percentile per-packet one-way delay: 60.714 ms

Loss rate: 0.34%

-- Flow 2:

Average throughput: 173.89 Mbit/s

95th percentile per-packet one-way delay: 60.884 ms

Loss rate: 0.58%

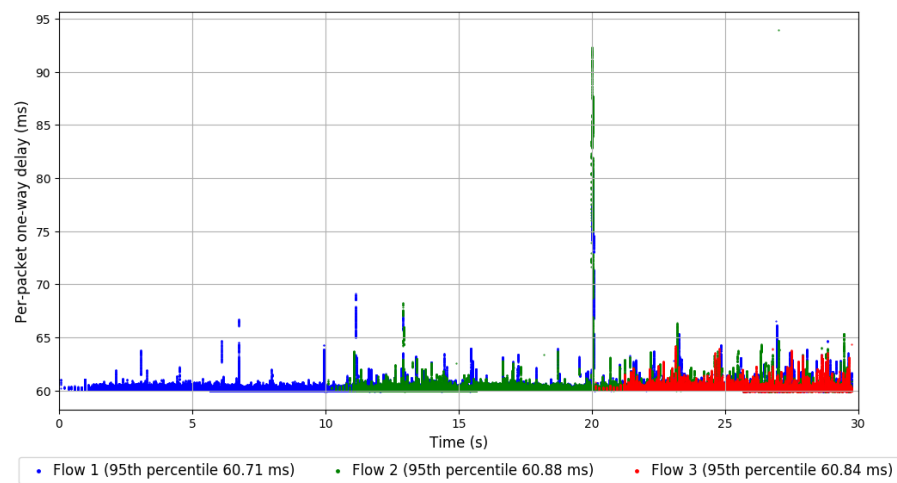
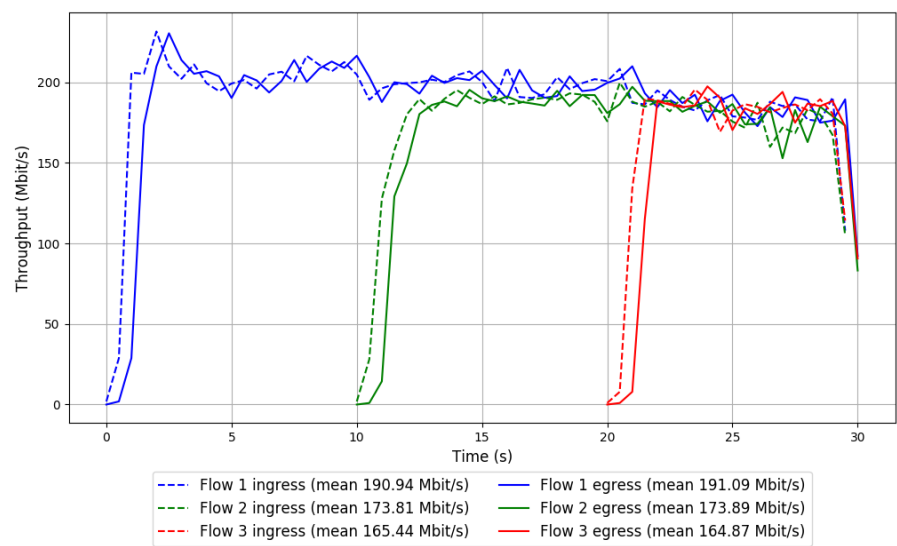
-- Flow 3:

Average throughput: 164.87 Mbit/s

95th percentile per-packet one-way delay: 60.842 ms

Loss rate: 1.53%

Run 8: Report of Indigo — Data Link

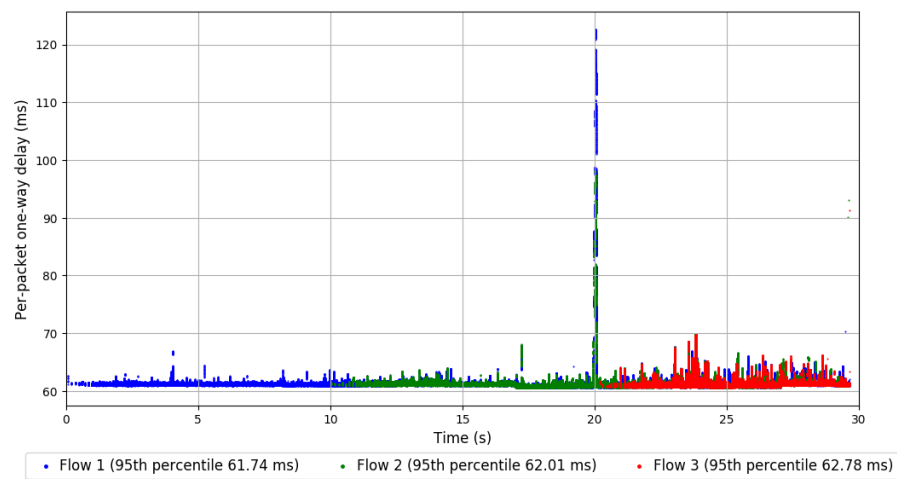
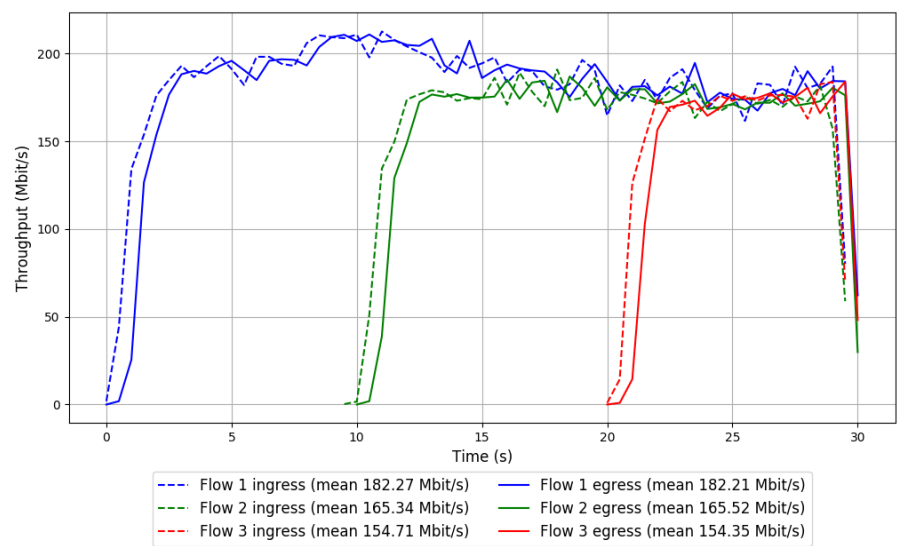


Run 9: Statistics of Indigo

Start at: 2018-08-12 00:30:38  
End at: 2018-08-12 00:31:08  
Local clock offset: -0.107 ms  
Remote clock offset: -0.025 ms

# Below is generated by plot.py at 2018-08-12 03:48:28  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 341.27 Mbit/s  
95th percentile per-packet one-way delay: 61.974 ms  
Loss rate: 0.61%  
-- Flow 1:  
Average throughput: 182.21 Mbit/s  
95th percentile per-packet one-way delay: 61.739 ms  
Loss rate: 0.44%  
-- Flow 2:  
Average throughput: 165.52 Mbit/s  
95th percentile per-packet one-way delay: 62.014 ms  
Loss rate: 0.51%  
-- Flow 3:  
Average throughput: 154.35 Mbit/s  
95th percentile per-packet one-way delay: 62.779 ms  
Loss rate: 1.46%

Run 9: Report of Indigo — Data Link

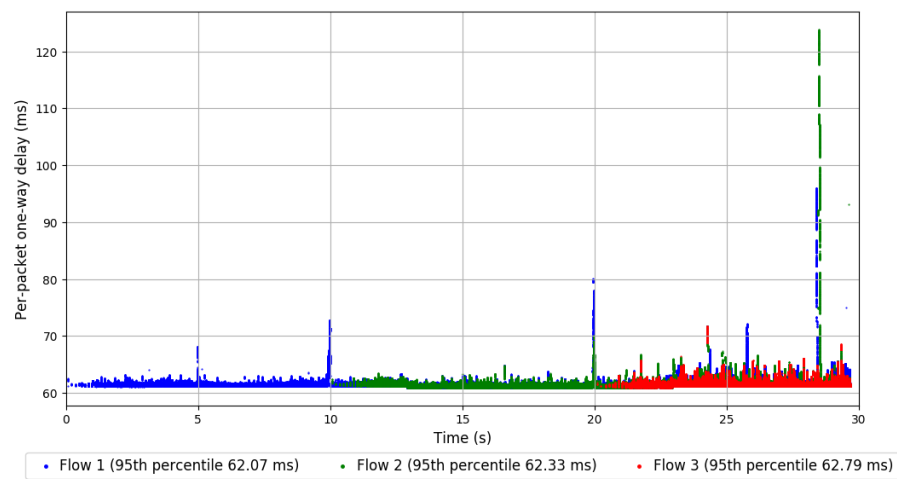
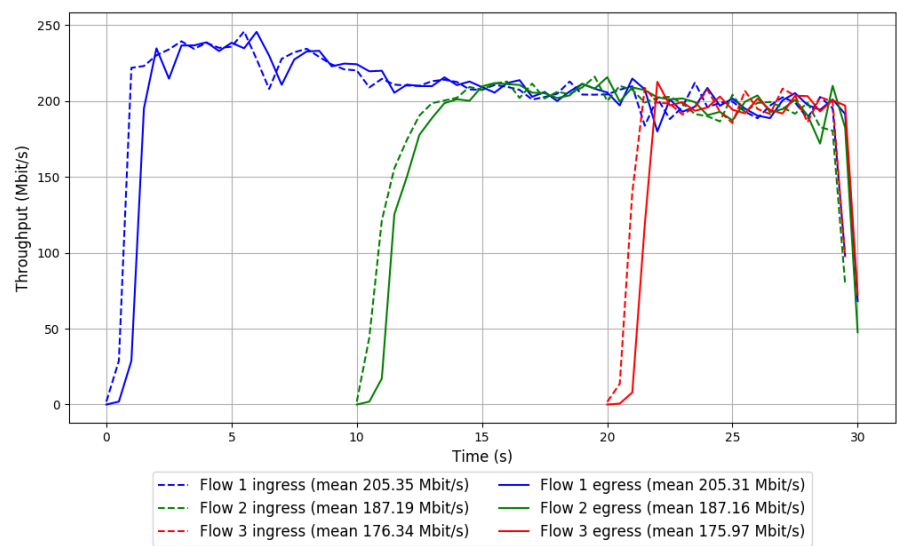


Run 10: Statistics of Indigo

Start at: 2018-08-12 00:57:12  
End at: 2018-08-12 00:57:42  
Local clock offset: -0.042 ms  
Remote clock offset: -0.082 ms

# Below is generated by plot.py at 2018-08-12 03:48:28  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 386.07 Mbit/s  
95th percentile per-packet one-way delay: 62.287 ms  
Loss rate: 0.68%  
-- Flow 1:  
Average throughput: 205.31 Mbit/s  
95th percentile per-packet one-way delay: 62.071 ms  
Loss rate: 0.43%  
-- Flow 2:  
Average throughput: 187.16 Mbit/s  
95th percentile per-packet one-way delay: 62.330 ms  
Loss rate: 0.71%  
-- Flow 3:  
Average throughput: 175.97 Mbit/s  
95th percentile per-packet one-way delay: 62.789 ms  
Loss rate: 1.50%

Run 10: Report of Indigo — Data Link



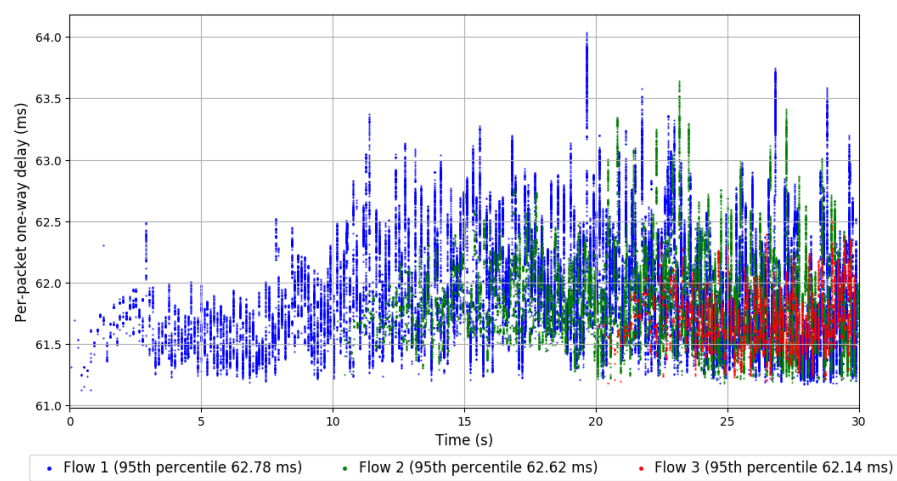
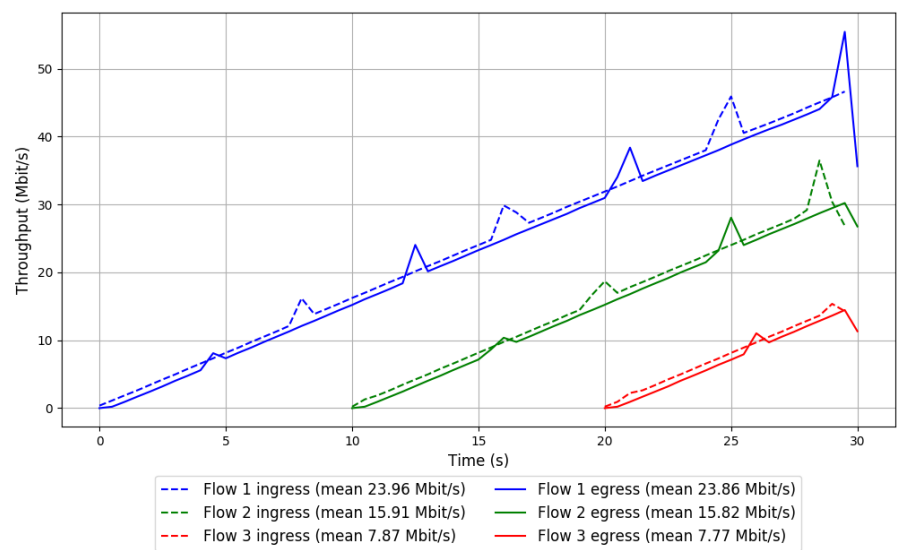
```
Run 1: Statistics of LEDBAT

Start at: 2018-08-11 20:58:44
End at: 2018-08-11 20:59:14
Local clock offset: 0.061 ms
Remote clock offset: -0.238 ms

# Below is generated by plot.py at 2018-08-12 03:48:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 36.86 Mbit/s
95th percentile per-packet one-way delay: 62.735 ms
Loss rate: 1.05%
-- Flow 1:
Average throughput: 23.86 Mbit/s
95th percentile per-packet one-way delay: 62.782 ms
Loss rate: 0.82%
-- Flow 2:
Average throughput: 15.82 Mbit/s
95th percentile per-packet one-way delay: 62.624 ms
Loss rate: 1.22%
-- Flow 3:
Average throughput: 7.77 Mbit/s
95th percentile per-packet one-way delay: 62.139 ms
Loss rate: 2.50%
```



Run 1: Report of LEDBAT — Data Link

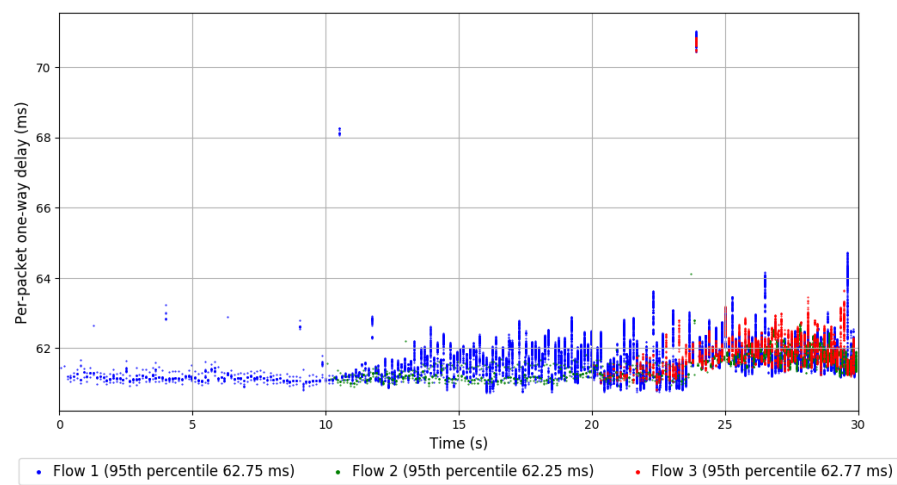
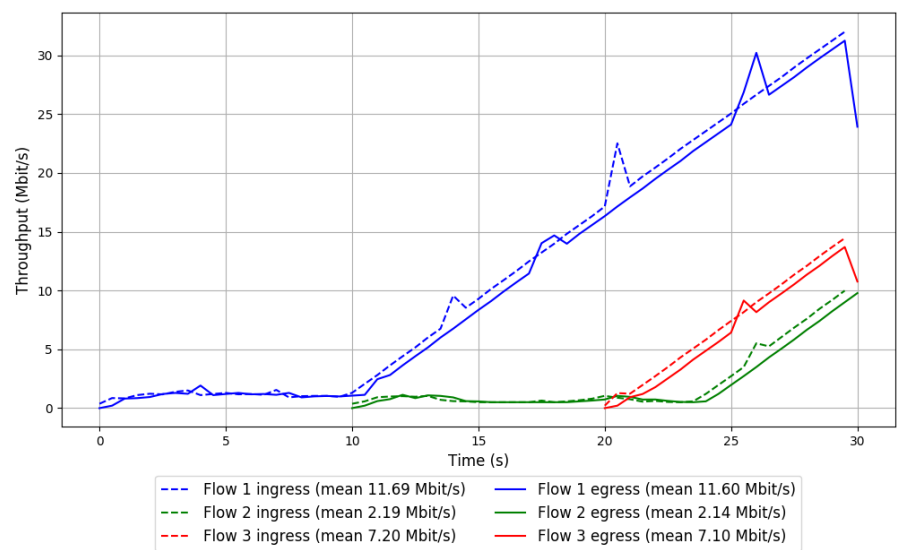


Run 2: Statistics of LEDBAT

Start at: 2018-08-11 21:25:21  
End at: 2018-08-11 21:25:51  
Local clock offset: 0.131 ms  
Remote clock offset: -0.095 ms

# Below is generated by plot.py at 2018-08-12 03:48:28  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 15.32 Mbit/s  
95th percentile per-packet one-way delay: 62.712 ms  
Loss rate: 1.54%  
-- Flow 1:  
Average throughput: 11.60 Mbit/s  
95th percentile per-packet one-way delay: 62.750 ms  
Loss rate: 1.15%  
-- Flow 2:  
Average throughput: 2.14 Mbit/s  
95th percentile per-packet one-way delay: 62.251 ms  
Loss rate: 2.96%  
-- Flow 3:  
Average throughput: 7.10 Mbit/s  
95th percentile per-packet one-way delay: 62.775 ms  
Loss rate: 2.59%

Run 2: Report of LEDBAT — Data Link

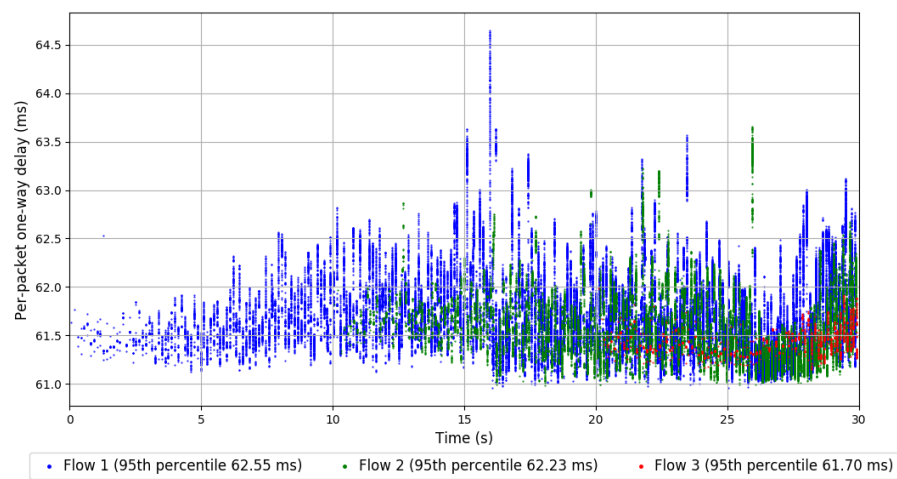
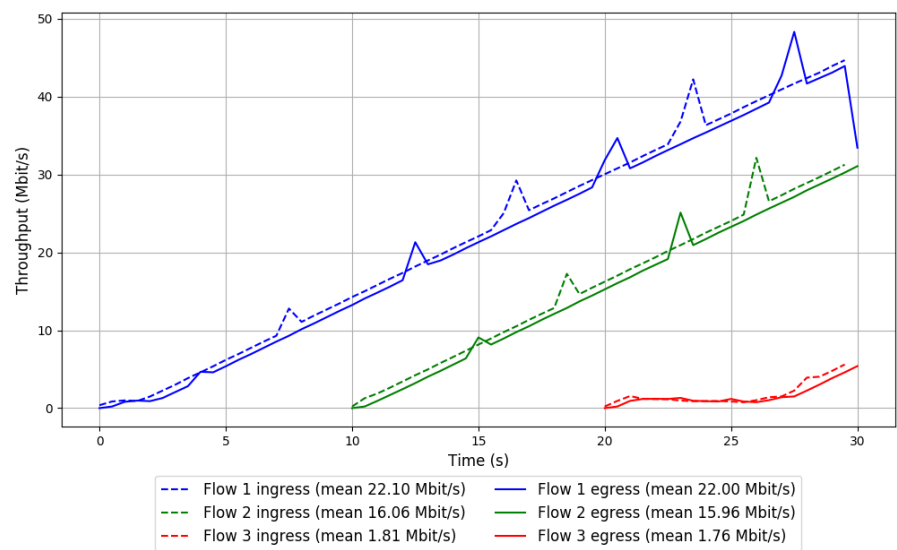


Run 3: Statistics of LEDBAT

Start at: 2018-08-11 21:52:09  
End at: 2018-08-11 21:52:39  
Local clock offset: -0.015 ms  
Remote clock offset: -0.309 ms

# Below is generated by plot.py at 2018-08-12 03:48:28  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 33.12 Mbit/s  
95th percentile per-packet one-way delay: 62.492 ms  
Loss rate: 1.03%  
-- Flow 1:  
Average throughput: 22.00 Mbit/s  
95th percentile per-packet one-way delay: 62.555 ms  
Loss rate: 0.85%  
-- Flow 2:  
Average throughput: 15.96 Mbit/s  
95th percentile per-packet one-way delay: 62.235 ms  
Loss rate: 1.23%  
-- Flow 3:  
Average throughput: 1.76 Mbit/s  
95th percentile per-packet one-way delay: 61.705 ms  
Loss rate: 4.10%

Run 3: Report of LEDBAT — Data Link

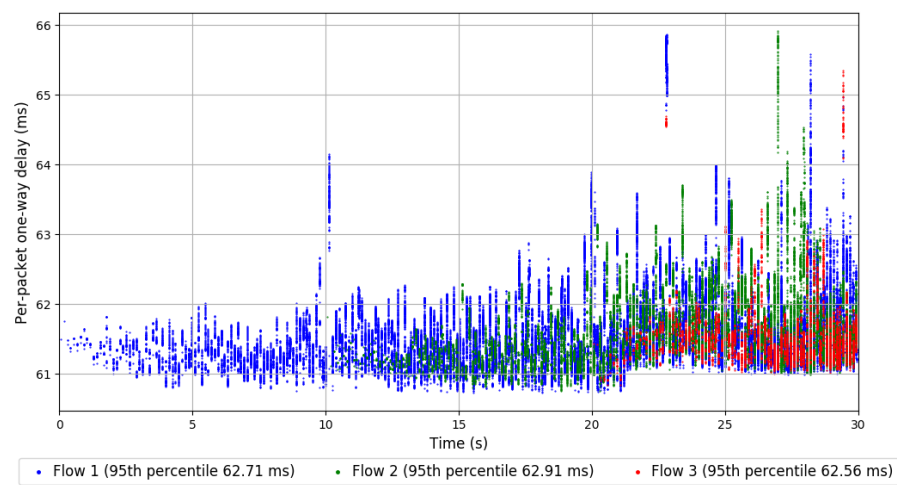
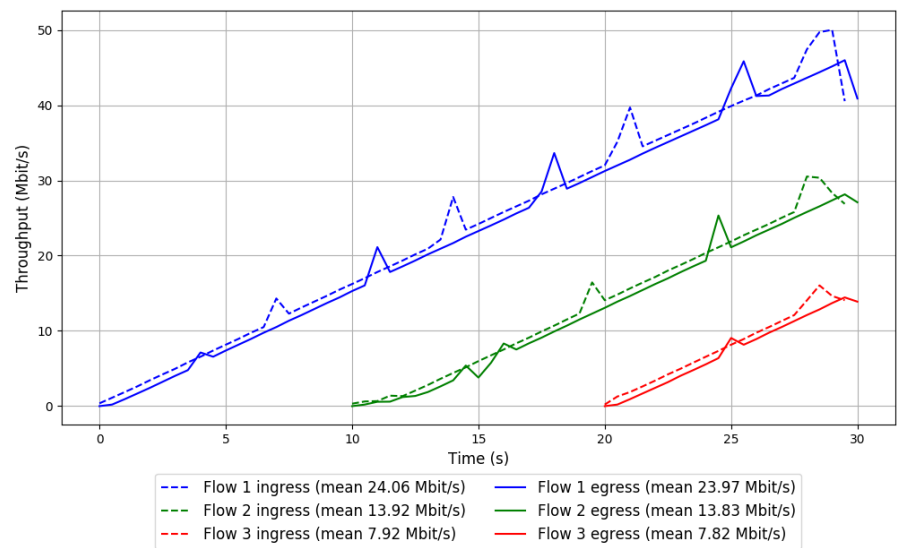


Run 4: Statistics of LEDBAT

Start at: 2018-08-11 22:19:04  
End at: 2018-08-11 22:19:34  
Local clock offset: -0.019 ms  
Remote clock offset: -0.044 ms

# Below is generated by plot.py at 2018-08-12 03:48:28  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 35.74 Mbit/s  
95th percentile per-packet one-way delay: 62.735 ms  
Loss rate: 1.03%  
-- Flow 1:  
Average throughput: 23.97 Mbit/s  
95th percentile per-packet one-way delay: 62.710 ms  
Loss rate: 0.78%  
-- Flow 2:  
Average throughput: 13.83 Mbit/s  
95th percentile per-packet one-way delay: 62.909 ms  
Loss rate: 1.25%  
-- Flow 3:  
Average throughput: 7.82 Mbit/s  
95th percentile per-packet one-way delay: 62.556 ms  
Loss rate: 2.48%

Run 4: Report of LEDBAT — Data Link



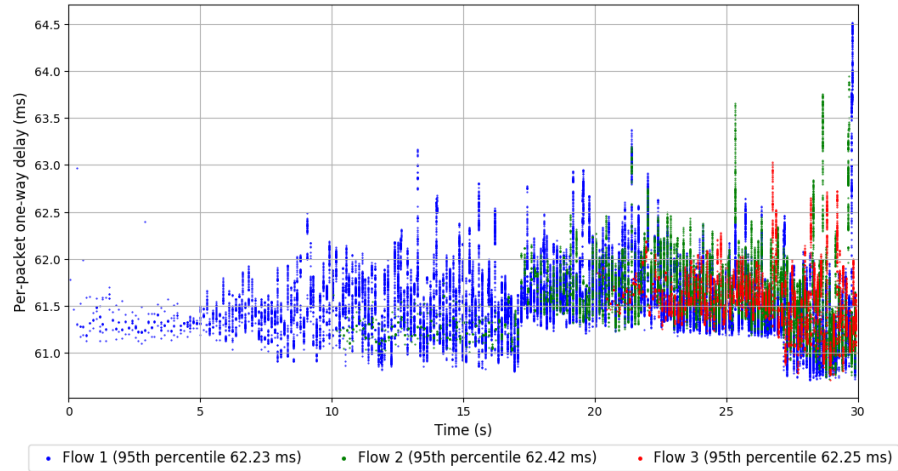
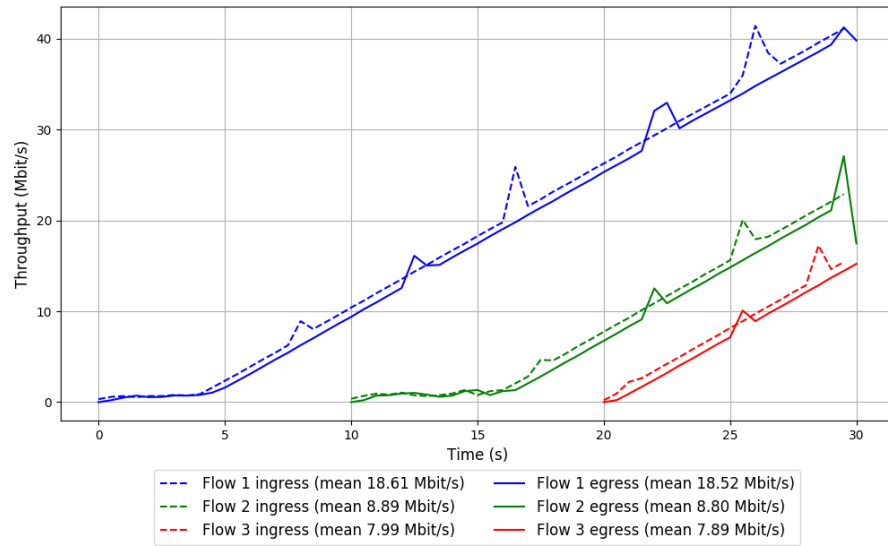
Run 5: Statistics of LEDBAT

Start at: 2018-08-11 22:45:58  
End at: 2018-08-11 22:46:28  
Local clock offset: -0.054 ms  
Remote clock offset: -0.117 ms

# Below is generated by plot.py at 2018-08-12 03:48:28  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 26.94 Mbit/s  
95th percentile per-packet one-way delay: 62.267 ms  
Loss rate: 1.23%  
-- Flow 1:  
Average throughput: 18.52 Mbit/s  
95th percentile per-packet one-way delay: 62.231 ms  
Loss rate: 0.93%  
-- Flow 2:  
Average throughput: 8.80 Mbit/s  
95th percentile per-packet one-way delay: 62.418 ms  
Loss rate: 1.63%  
-- Flow 3:  
Average throughput: 7.89 Mbit/s  
95th percentile per-packet one-way delay: 62.250 ms  
Loss rate: 2.48%



# Run 5: Report of LEDBAT — Data Link

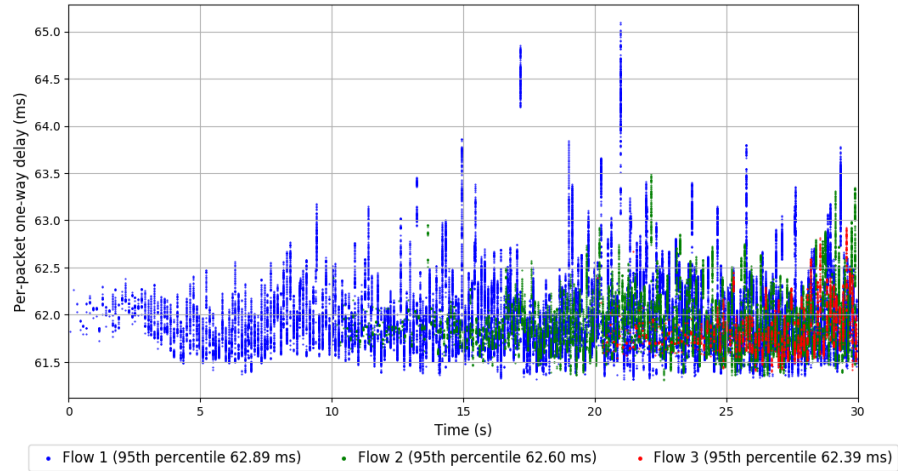
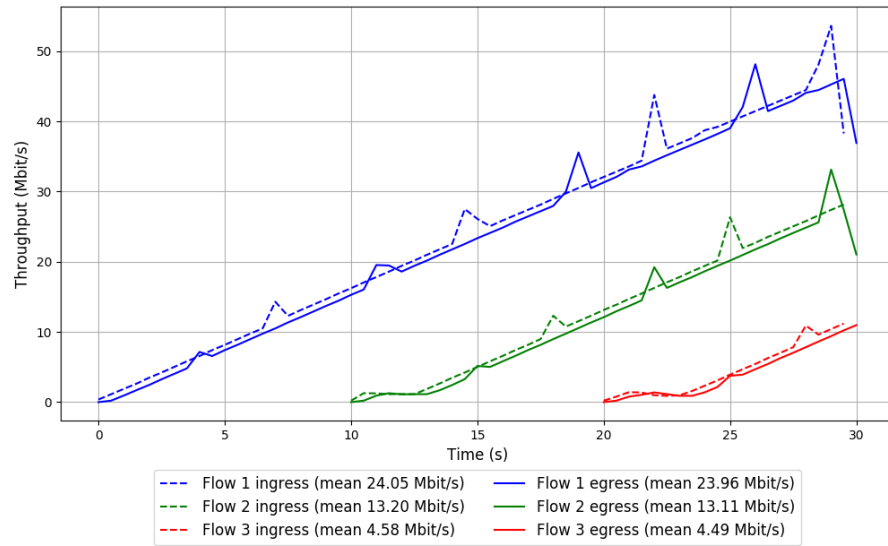


Run 6: Statistics of LEDBAT

Start at: 2018-08-11 23:13:01  
End at: 2018-08-11 23:13:31  
Local clock offset: -0.037 ms  
Remote clock offset: -0.626 ms

# Below is generated by plot.py at 2018-08-12 03:48:28  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 34.12 Mbit/s  
95th percentile per-packet one-way delay: 62.770 ms  
Loss rate: 1.05%  
-- Flow 1:  
Average throughput: 23.96 Mbit/s  
95th percentile per-packet one-way delay: 62.891 ms  
Loss rate: 0.81%  
-- Flow 2:  
Average throughput: 13.11 Mbit/s  
95th percentile per-packet one-way delay: 62.604 ms  
Loss rate: 1.35%  
-- Flow 3:  
Average throughput: 4.49 Mbit/s  
95th percentile per-packet one-way delay: 62.386 ms  
Loss rate: 3.17%

## Run 6: Report of LEDBAT — Data Link

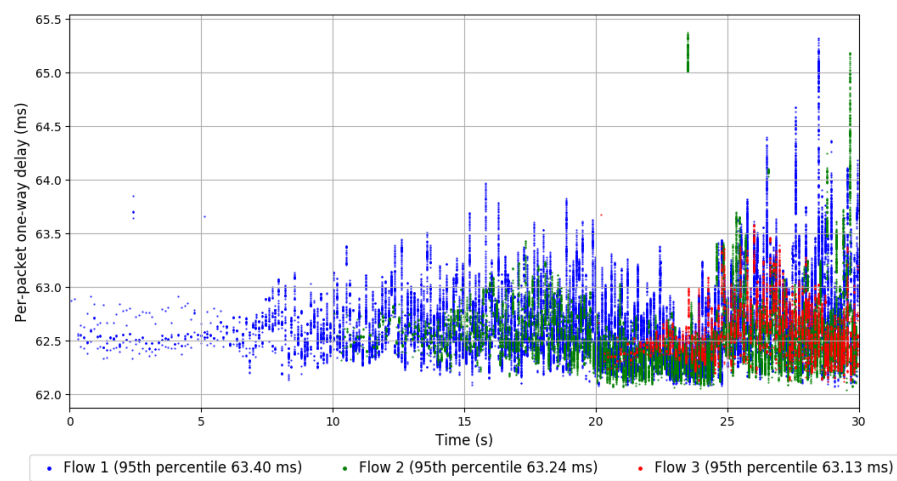
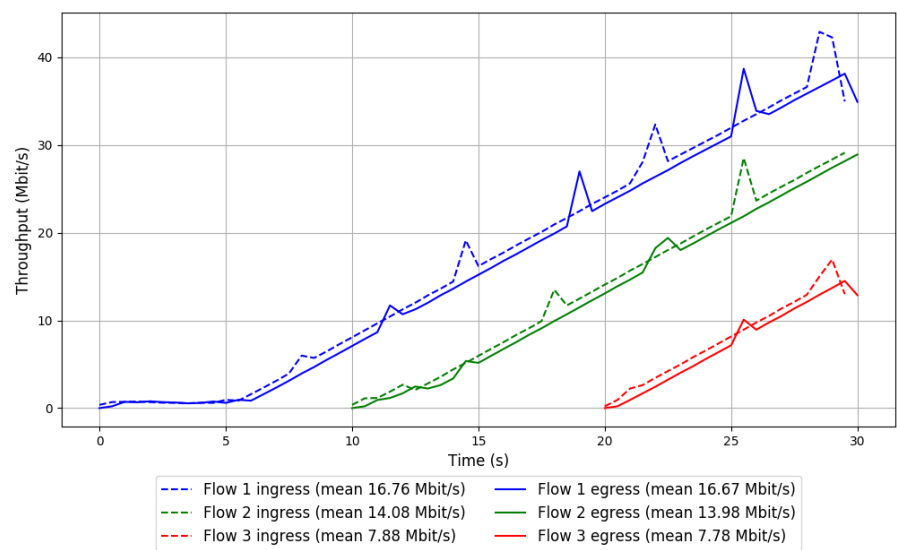


Run 7: Statistics of LEDBAT

Start at: 2018-08-11 23:39:49  
End at: 2018-08-11 23:40:19  
Local clock offset: 0.003 ms  
Remote clock offset: -1.244 ms

# Below is generated by plot.py at 2018-08-12 03:48:28  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 28.51 Mbit/s  
95th percentile per-packet one-way delay: 63.351 ms  
Loss rate: 1.22%  
-- Flow 1:  
Average throughput: 16.67 Mbit/s  
95th percentile per-packet one-way delay: 63.404 ms  
Loss rate: 0.97%  
-- Flow 2:  
Average throughput: 13.98 Mbit/s  
95th percentile per-packet one-way delay: 63.236 ms  
Loss rate: 1.31%  
-- Flow 3:  
Average throughput: 7.78 Mbit/s  
95th percentile per-packet one-way delay: 63.130 ms  
Loss rate: 2.46%

Run 7: Report of LEDBAT — Data Link

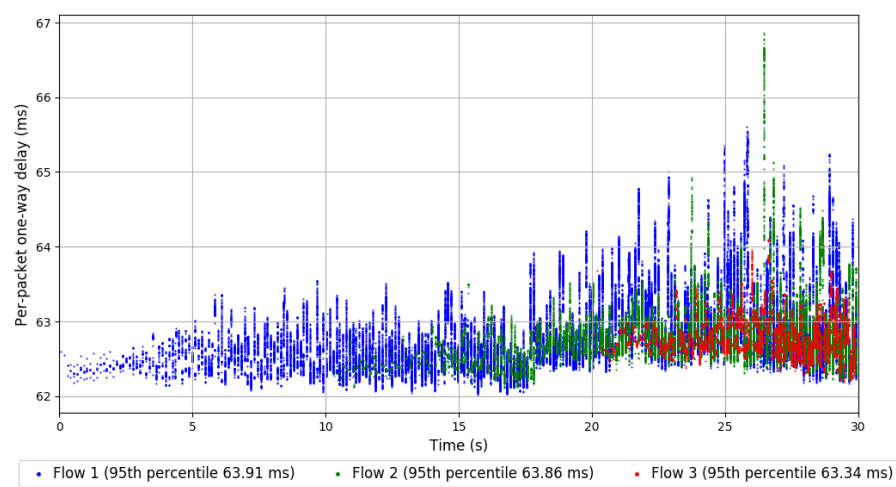
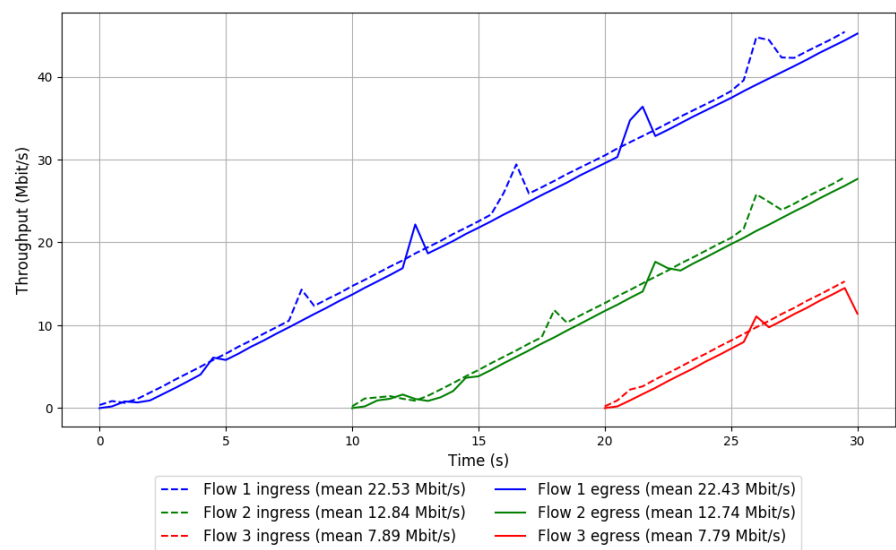


Run 8: Statistics of LEDBAT

Start at: 2018-08-12 00:06:37  
End at: 2018-08-12 00:07:07  
Local clock offset: 0.013 ms  
Remote clock offset: -1.204 ms

# Below is generated by plot.py at 2018-08-12 03:48:28  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 33.44 Mbit/s  
95th percentile per-packet one-way delay: 63.860 ms  
Loss rate: 1.11%  
-- Flow 1:  
Average throughput: 22.43 Mbit/s  
95th percentile per-packet one-way delay: 63.907 ms  
Loss rate: 0.85%  
-- Flow 2:  
Average throughput: 12.74 Mbit/s  
95th percentile per-packet one-way delay: 63.863 ms  
Loss rate: 1.37%  
-- Flow 3:  
Average throughput: 7.79 Mbit/s  
95th percentile per-packet one-way delay: 63.340 ms  
Loss rate: 2.50%

Run 8: Report of LEDBAT — Data Link



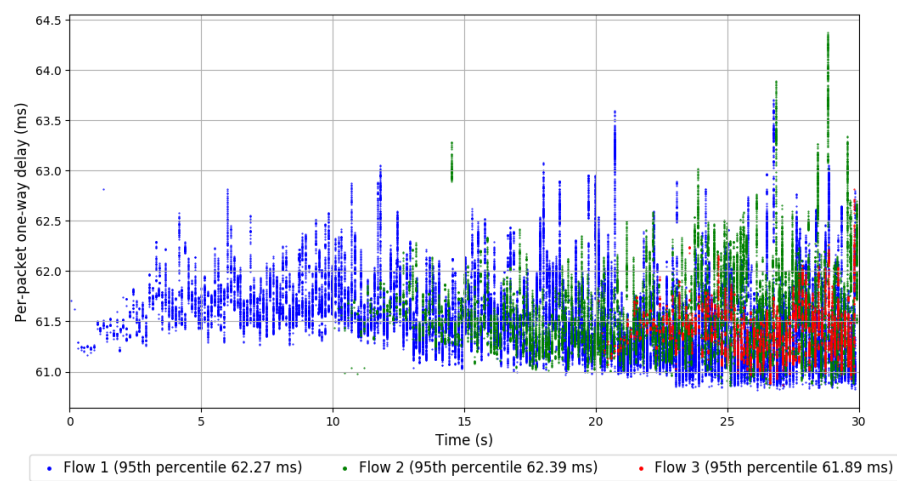
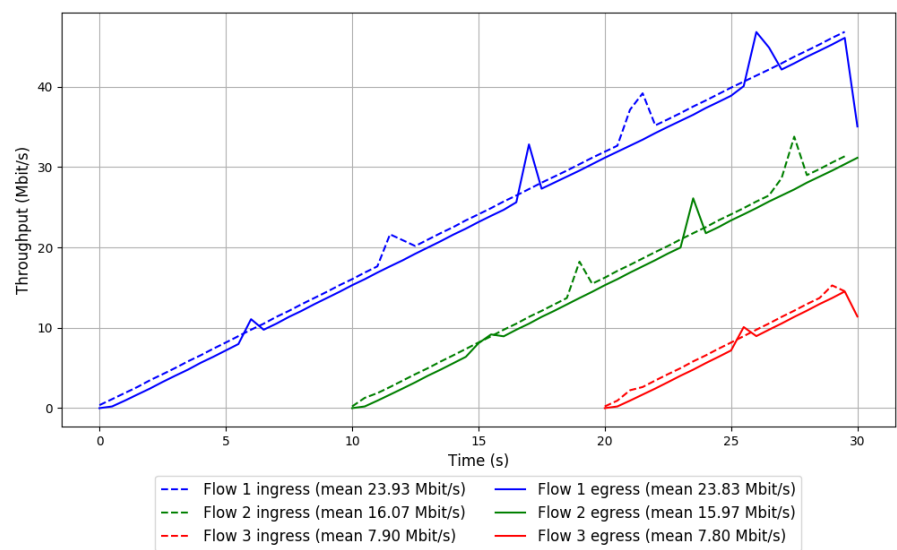
Run 9: Statistics of LEDBAT

Start at: 2018-08-12 00:33:22  
End at: 2018-08-12 00:33:52  
Local clock offset: -0.106 ms  
Remote clock offset: -0.121 ms

# Below is generated by plot.py at 2018-08-12 03:48:28  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 36.93 Mbit/s  
95th percentile per-packet one-way delay: 62.291 ms  
Loss rate: 1.06%  
-- Flow 1:  
Average throughput: 23.83 Mbit/s  
95th percentile per-packet one-way delay: 62.274 ms  
Loss rate: 0.82%  
-- Flow 2:  
Average throughput: 15.97 Mbit/s  
95th percentile per-packet one-way delay: 62.393 ms  
Loss rate: 1.23%  
-- Flow 3:  
Average throughput: 7.80 Mbit/s  
95th percentile per-packet one-way delay: 61.888 ms  
Loss rate: 2.50%



Run 9: Report of LEDBAT — Data Link

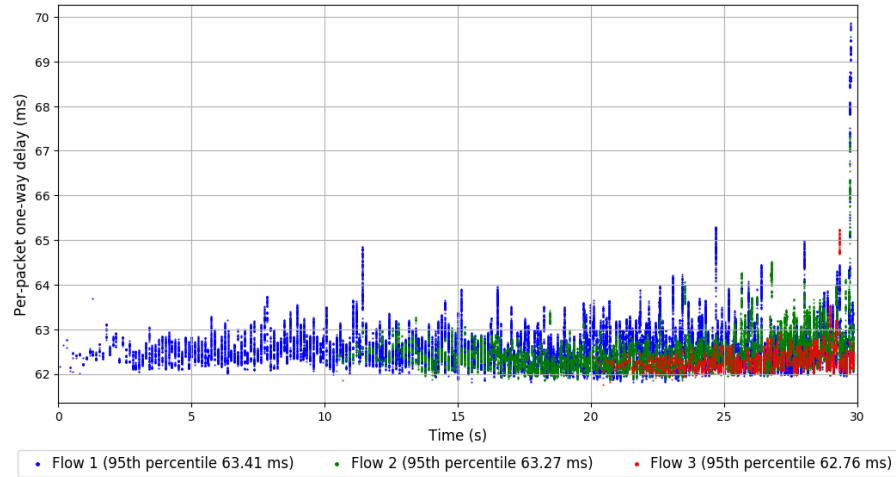
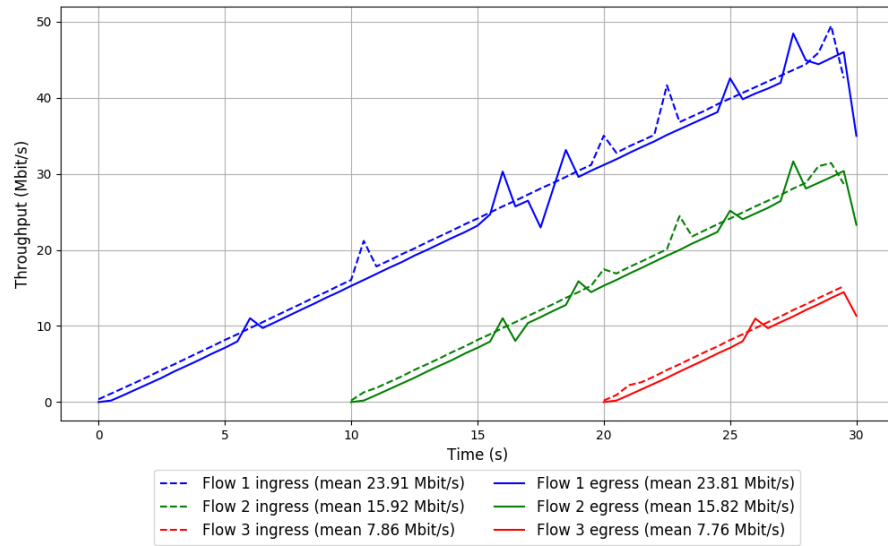


Run 10: Statistics of LEDBAT

Start at: 2018-08-12 01:00:01  
End at: 2018-08-12 01:00:31  
Local clock offset: -0.069 ms  
Remote clock offset: -0.868 ms

# Below is generated by plot.py at 2018-08-12 03:48:28  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 36.85 Mbit/s  
95th percentile per-packet one-way delay: 63.340 ms  
Loss rate: 1.06%  
-- Flow 1:  
Average throughput: 23.81 Mbit/s  
95th percentile per-packet one-way delay: 63.414 ms  
Loss rate: 0.82%  
-- Flow 2:  
Average throughput: 15.82 Mbit/s  
95th percentile per-packet one-way delay: 63.270 ms  
Loss rate: 1.24%  
-- Flow 3:  
Average throughput: 7.76 Mbit/s  
95th percentile per-packet one-way delay: 62.759 ms  
Loss rate: 2.51%

# Run 10: Report of LEDBAT — Data Link

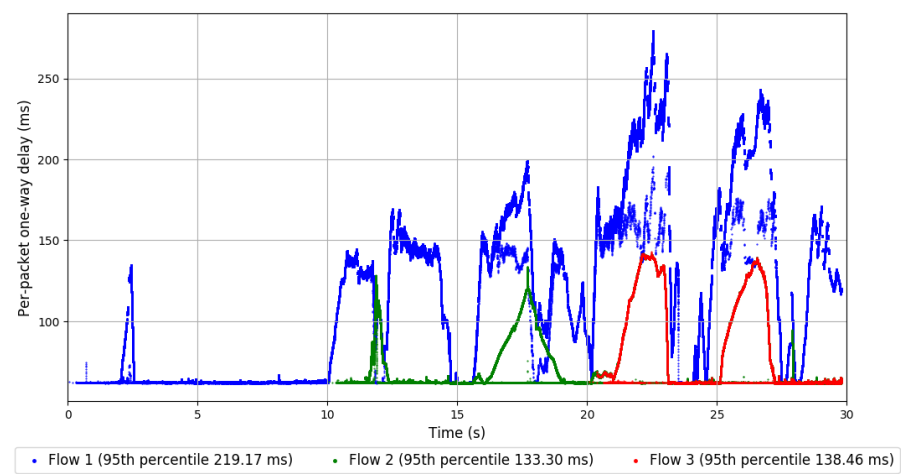
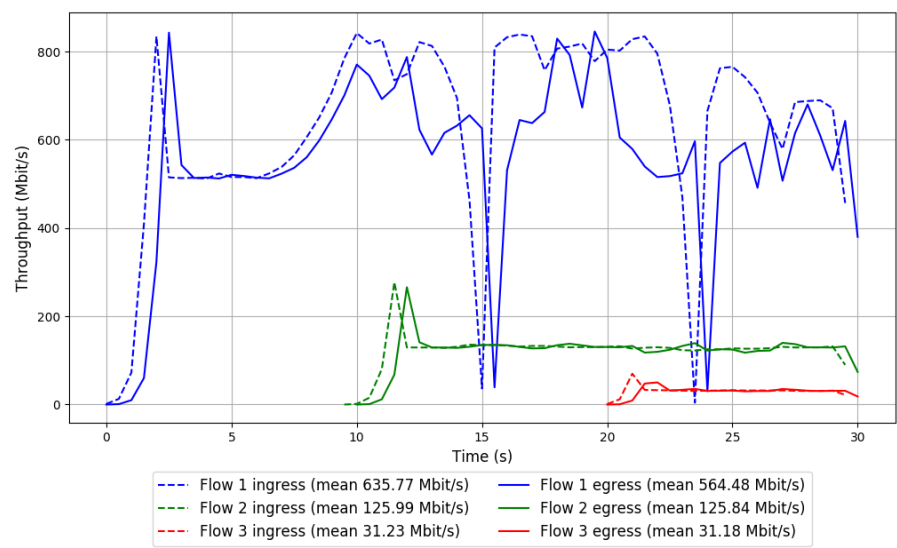


Run 1: Statistics of PCC-Allegro

Start at: 2018-08-11 21:09:40  
End at: 2018-08-11 21:10:10  
Local clock offset: 0.14 ms  
Remote clock offset: -0.892 ms

# Below is generated by plot.py at 2018-08-12 03:53:21  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 658.14 Mbit/s  
95th percentile per-packet one-way delay: 214.913 ms  
Loss rate: 10.19%  
-- Flow 1:  
Average throughput: 564.48 Mbit/s  
95th percentile per-packet one-way delay: 219.166 ms  
Loss rate: 11.58%  
-- Flow 2:  
Average throughput: 125.84 Mbit/s  
95th percentile per-packet one-way delay: 133.300 ms  
Loss rate: 0.74%  
-- Flow 3:  
Average throughput: 31.18 Mbit/s  
95th percentile per-packet one-way delay: 138.461 ms  
Loss rate: 1.41%

Run 1: Report of PCC-Allegro — Data Link

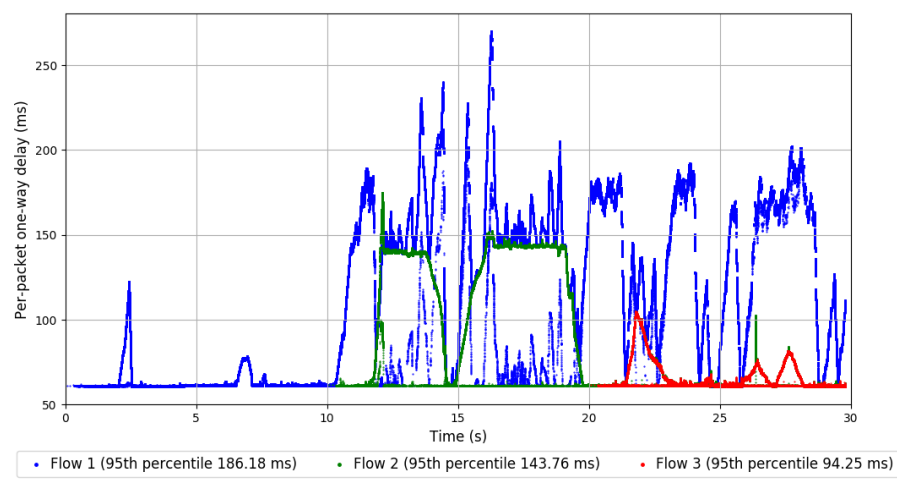
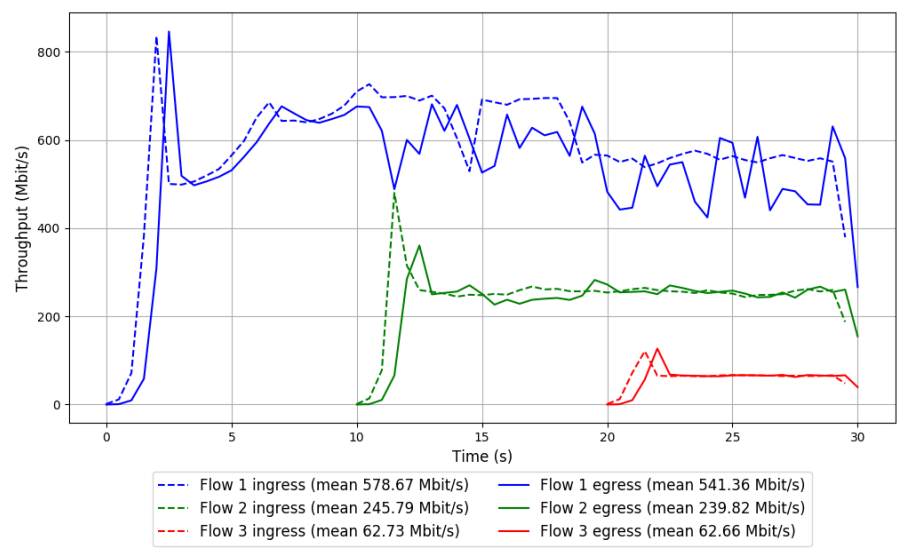


Run 2: Statistics of PCC-Allegro

Start at: 2018-08-11 21:36:20  
End at: 2018-08-11 21:36:50  
Local clock offset: -0.034 ms  
Remote clock offset: -0.075 ms

# Below is generated by plot.py at 2018-08-12 03:54:09  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 720.94 Mbit/s  
95th percentile per-packet one-way delay: 182.420 ms  
Loss rate: 5.88%  
-- Flow 1:  
Average throughput: 541.36 Mbit/s  
95th percentile per-packet one-way delay: 186.184 ms  
Loss rate: 6.84%  
-- Flow 2:  
Average throughput: 239.82 Mbit/s  
95th percentile per-packet one-way delay: 143.757 ms  
Loss rate: 3.05%  
-- Flow 3:  
Average throughput: 62.66 Mbit/s  
95th percentile per-packet one-way delay: 94.247 ms  
Loss rate: 1.35%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-08-11 22:03:03

End at: 2018-08-11 22:03:34

Local clock offset: -0.088 ms

Remote clock offset: 1.126 ms

# Below is generated by plot.py at 2018-08-12 03:54:09

# Datalink statistics

-- Total of 3 flows:

Average throughput: 687.60 Mbit/s

95th percentile per-packet one-way delay: 197.859 ms

Loss rate: 5.07%

-- Flow 1:

Average throughput: 514.85 Mbit/s

95th percentile per-packet one-way delay: 202.311 ms

Loss rate: 6.12%

-- Flow 2:

Average throughput: 245.12 Mbit/s

95th percentile per-packet one-way delay: 144.128 ms

Loss rate: 1.84%

-- Flow 3:

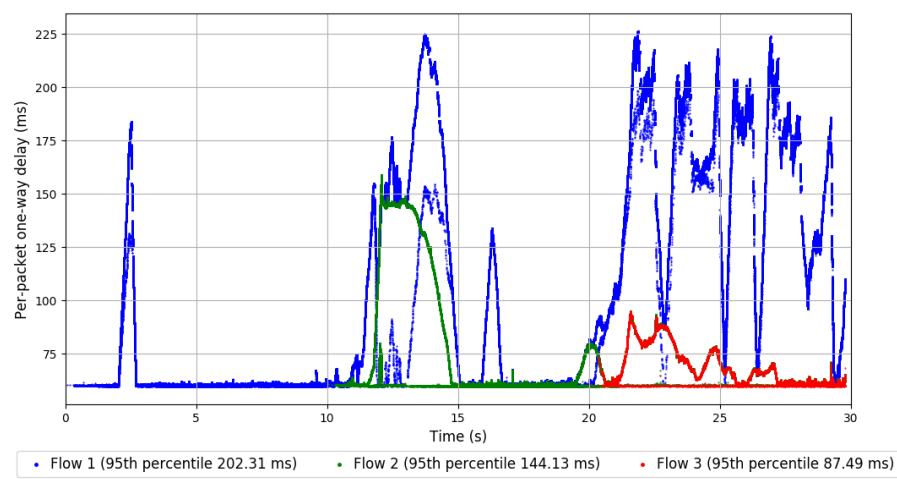
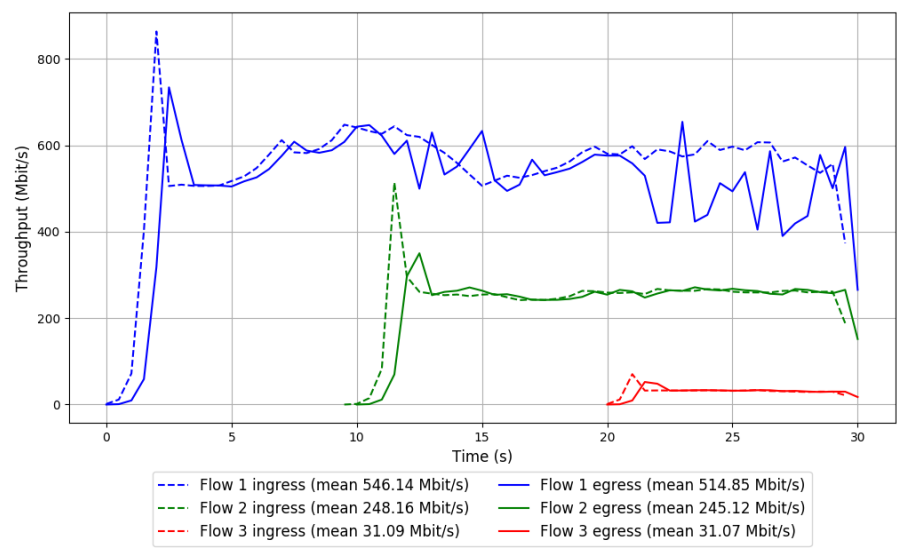
Average throughput: 31.07 Mbit/s

95th percentile per-packet one-way delay: 87.490 ms

Loss rate: 1.26%



Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-08-11 22:30:05

End at: 2018-08-11 22:30:35

Local clock offset: 0.01 ms

Remote clock offset: 1.236 ms

# Below is generated by plot.py at 2018-08-12 03:57:25

# Datalink statistics

-- Total of 3 flows:

Average throughput: 710.76 Mbit/s

95th percentile per-packet one-way delay: 221.965 ms

Loss rate: 5.83%

-- Flow 1:

Average throughput: 538.30 Mbit/s

95th percentile per-packet one-way delay: 226.887 ms

Loss rate: 6.80%

-- Flow 2:

Average throughput: 244.78 Mbit/s

95th percentile per-packet one-way delay: 142.771 ms

Loss rate: 2.61%

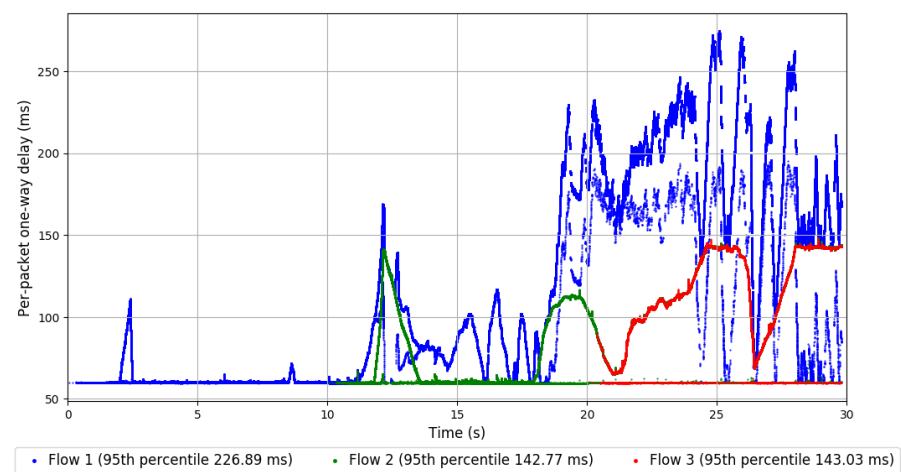
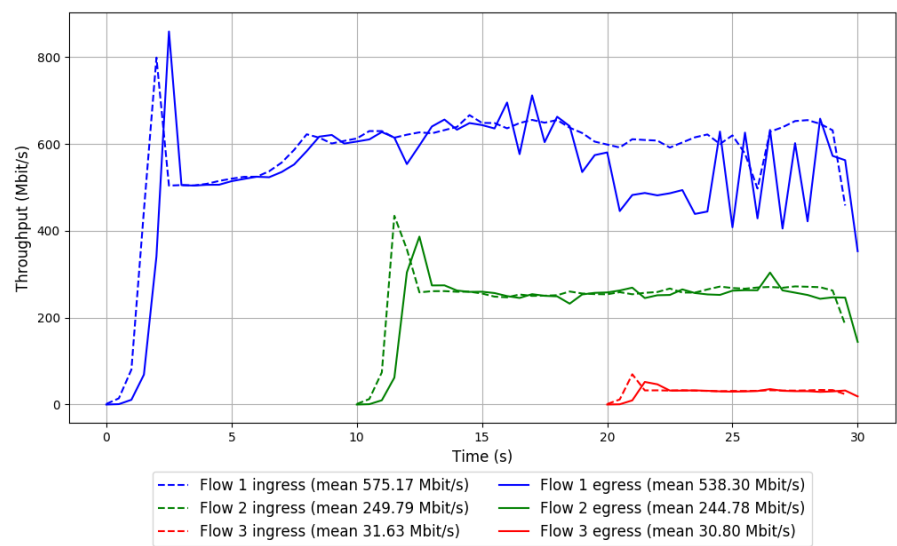
-- Flow 3:

Average throughput: 30.80 Mbit/s

95th percentile per-packet one-way delay: 143.033 ms

Loss rate: 3.83%

Run 4: Report of PCC-Allegro — Data Link

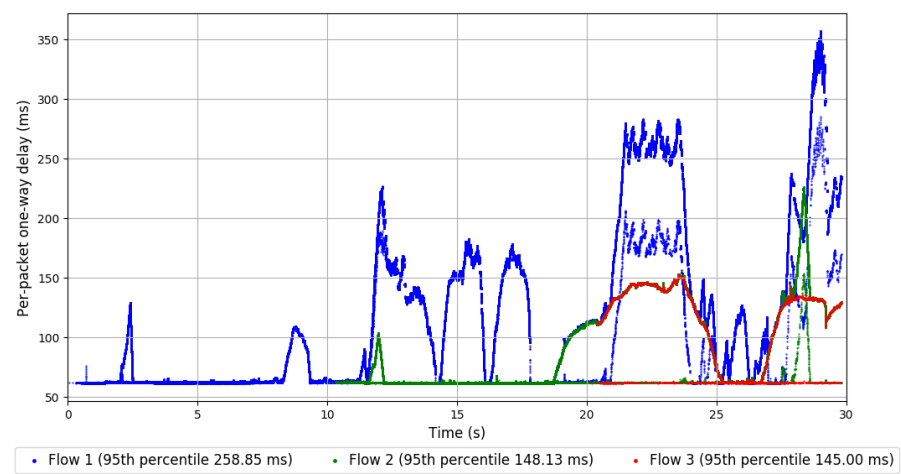
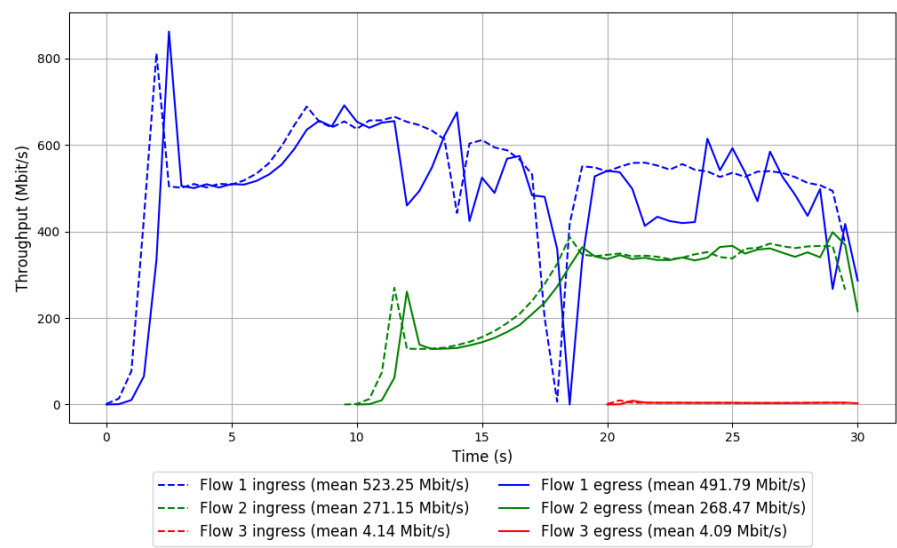


Run 5: Statistics of PCC-Allegro

Start at: 2018-08-11 22:57:03  
End at: 2018-08-11 22:57:33  
Local clock offset: -0.025 ms  
Remote clock offset: -0.753 ms

# Below is generated by plot.py at 2018-08-12 03:59:06  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 671.32 Mbit/s  
95th percentile per-packet one-way delay: 253.462 ms  
Loss rate: 5.16%  
-- Flow 1:  
Average throughput: 491.79 Mbit/s  
95th percentile per-packet one-way delay: 258.853 ms  
Loss rate: 6.40%  
-- Flow 2:  
Average throughput: 268.47 Mbit/s  
95th percentile per-packet one-way delay: 148.135 ms  
Loss rate: 1.60%  
-- Flow 3:  
Average throughput: 4.09 Mbit/s  
95th percentile per-packet one-way delay: 145.004 ms  
Loss rate: 2.62%

Run 5: Report of PCC-Allegro — Data Link



Run 6: Statistics of PCC-Allegro

Start at: 2018-08-11 23:23:58

End at: 2018-08-11 23:24:28

Local clock offset: -0.069 ms

Remote clock offset: -0.47 ms

# Below is generated by plot.py at 2018-08-12 04:00:24

# Datalink statistics

-- Total of 3 flows:

Average throughput: 690.35 Mbit/s

95th percentile per-packet one-way delay: 245.026 ms

Loss rate: 3.92%

-- Flow 1:

Average throughput: 481.28 Mbit/s

95th percentile per-packet one-way delay: 252.480 ms

Loss rate: 4.77%

-- Flow 2:

Average throughput: 255.10 Mbit/s

95th percentile per-packet one-way delay: 141.489 ms

Loss rate: 1.66%

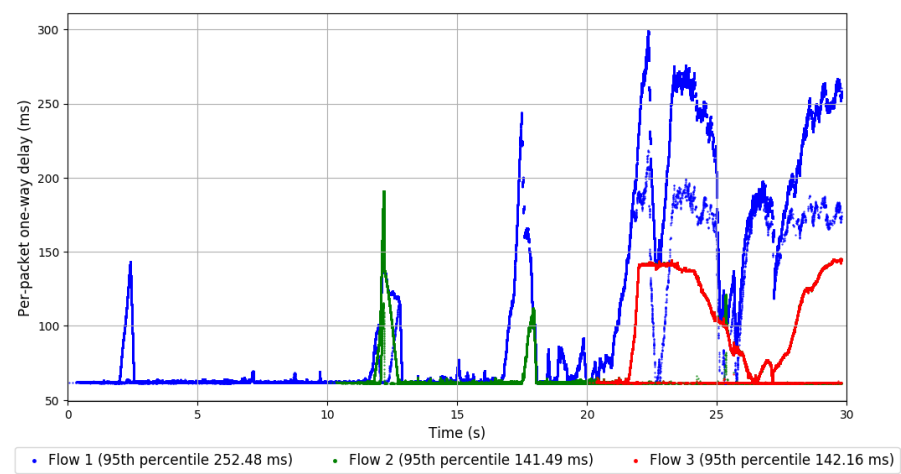
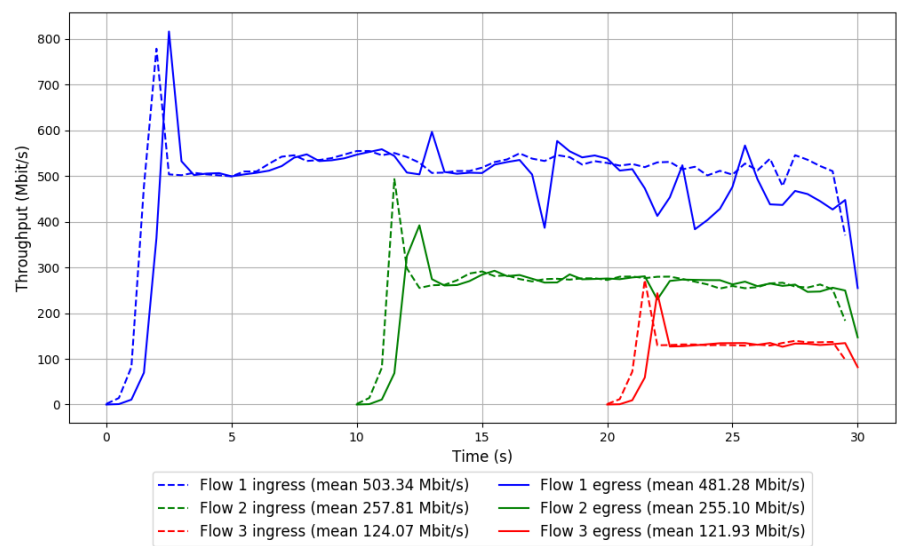
-- Flow 3:

Average throughput: 121.93 Mbit/s

95th percentile per-packet one-way delay: 142.165 ms

Loss rate: 2.95%

Run 6: Report of PCC-Allegro — Data Link



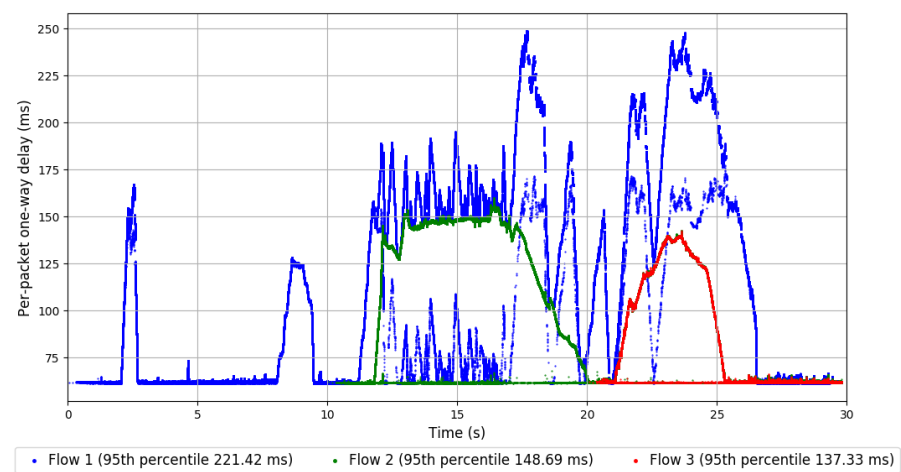
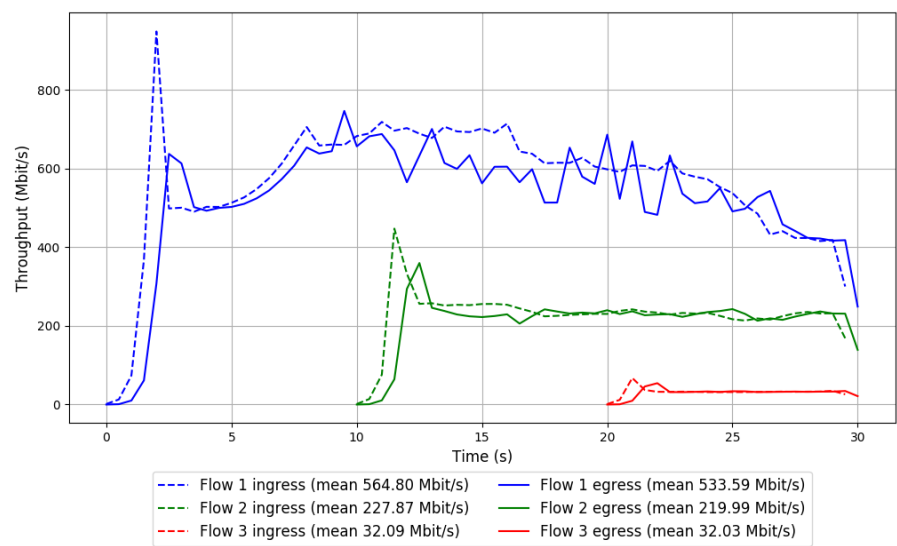
Run 7: Statistics of PCC-Allegro

Start at: 2018-08-11 23:50:45  
End at: 2018-08-11 23:51:15  
Local clock offset: -0.044 ms  
Remote clock offset: -0.621 ms

# Below is generated by plot.py at 2018-08-12 04:00:38  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 689.98 Mbit/s  
95th percentile per-packet one-way delay: 215.953 ms  
Loss rate: 5.46%  
-- Flow 1:  
Average throughput: 533.59 Mbit/s  
95th percentile per-packet one-way delay: 221.424 ms  
Loss rate: 5.92%  
-- Flow 2:  
Average throughput: 219.99 Mbit/s  
95th percentile per-packet one-way delay: 148.690 ms  
Loss rate: 4.06%  
-- Flow 3:  
Average throughput: 32.03 Mbit/s  
95th percentile per-packet one-way delay: 137.330 ms  
Loss rate: 1.44%



Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-08-12 00:17:36

End at: 2018-08-12 00:18:06

Local clock offset: -0.09 ms

Remote clock offset: 0.069 ms

# Below is generated by plot.py at 2018-08-12 04:02:22

# Datalink statistics

-- Total of 3 flows:

Average throughput: 706.13 Mbit/s

95th percentile per-packet one-way delay: 155.865 ms

Loss rate: 1.95%

-- Flow 1:

Average throughput: 491.41 Mbit/s

95th percentile per-packet one-way delay: 166.185 ms

Loss rate: 1.88%

-- Flow 2:

Average throughput: 307.36 Mbit/s

95th percentile per-packet one-way delay: 144.606 ms

Loss rate: 2.08%

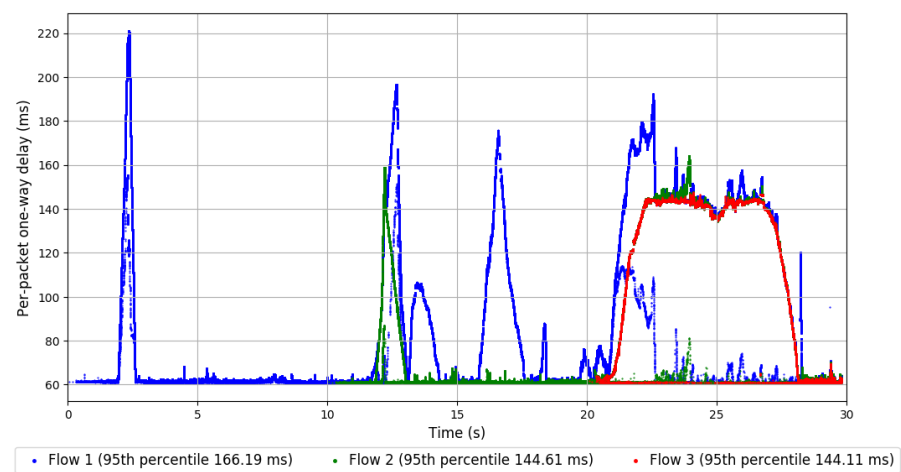
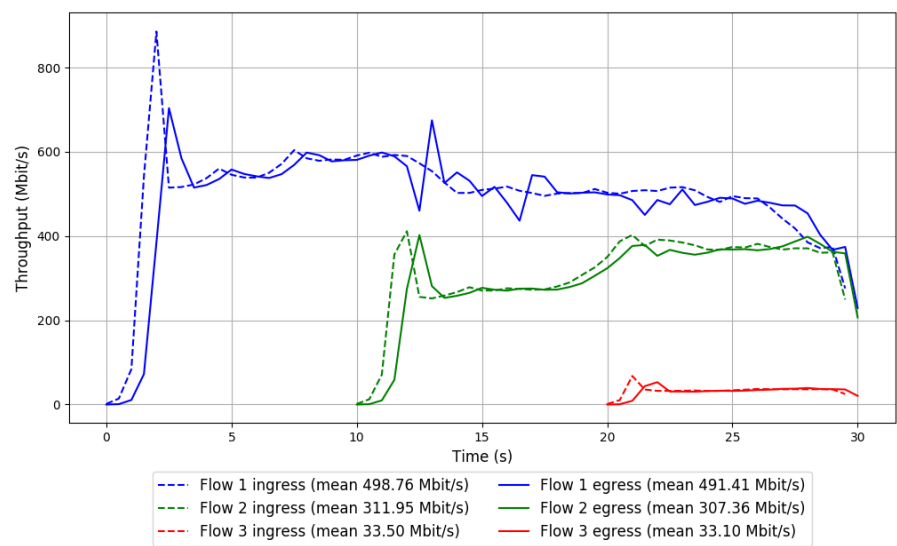
-- Flow 3:

Average throughput: 33.10 Mbit/s

95th percentile per-packet one-way delay: 144.110 ms

Loss rate: 2.44%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-08-12 00:44:15

End at: 2018-08-12 00:44:45

Local clock offset: -0.032 ms

Remote clock offset: 0.514 ms

# Below is generated by plot.py at 2018-08-12 04:06:41

# Datalink statistics

-- Total of 3 flows:

Average throughput: 703.43 Mbit/s

95th percentile per-packet one-way delay: 178.484 ms

Loss rate: 2.98%

-- Flow 1:

Average throughput: 523.21 Mbit/s

95th percentile per-packet one-way delay: 187.728 ms

Loss rate: 3.25%

-- Flow 2:

Average throughput: 268.31 Mbit/s

95th percentile per-packet one-way delay: 145.694 ms

Loss rate: 2.18%

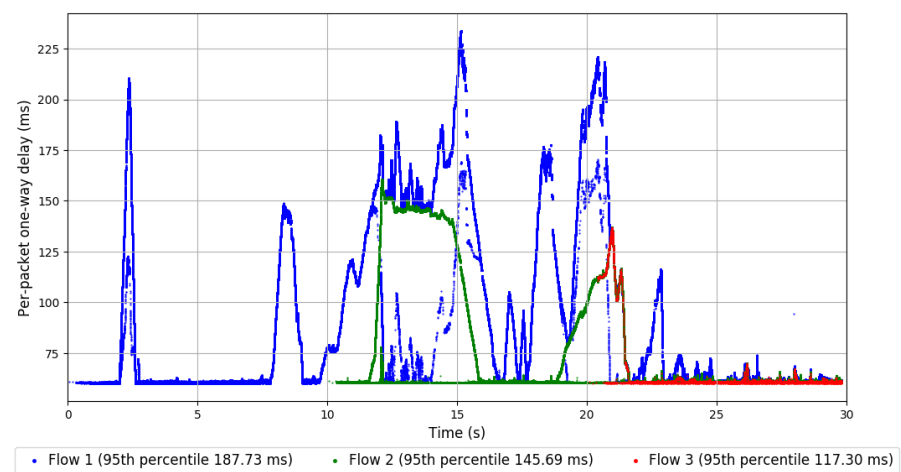
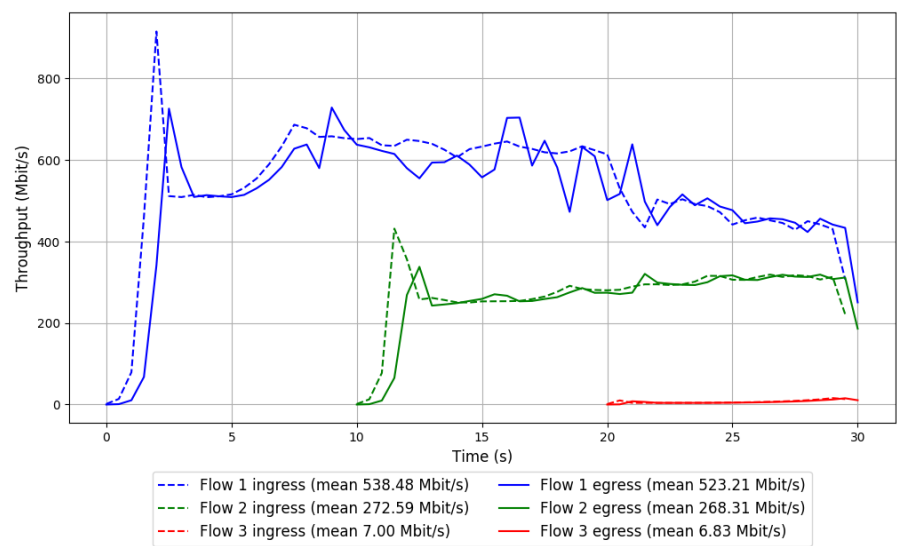
-- Flow 3:

Average throughput: 6.83 Mbit/s

95th percentile per-packet one-way delay: 117.297 ms

Loss rate: 3.61%

Run 9: Report of PCC-Allegro — Data Link

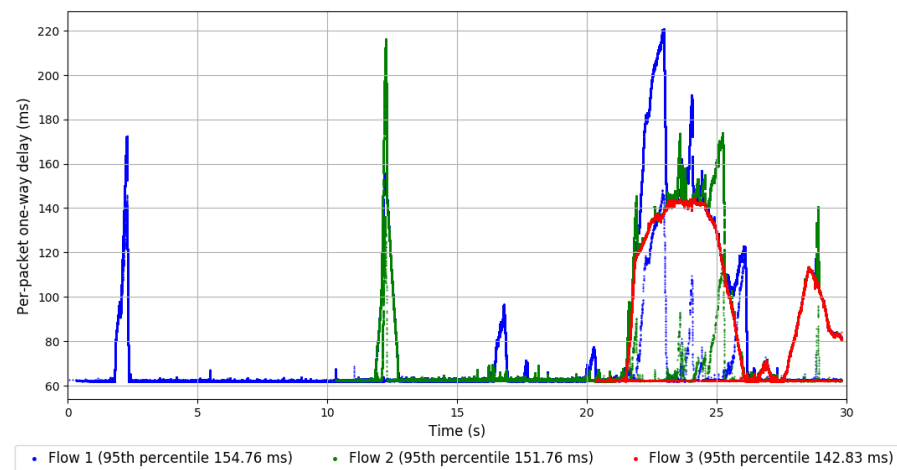
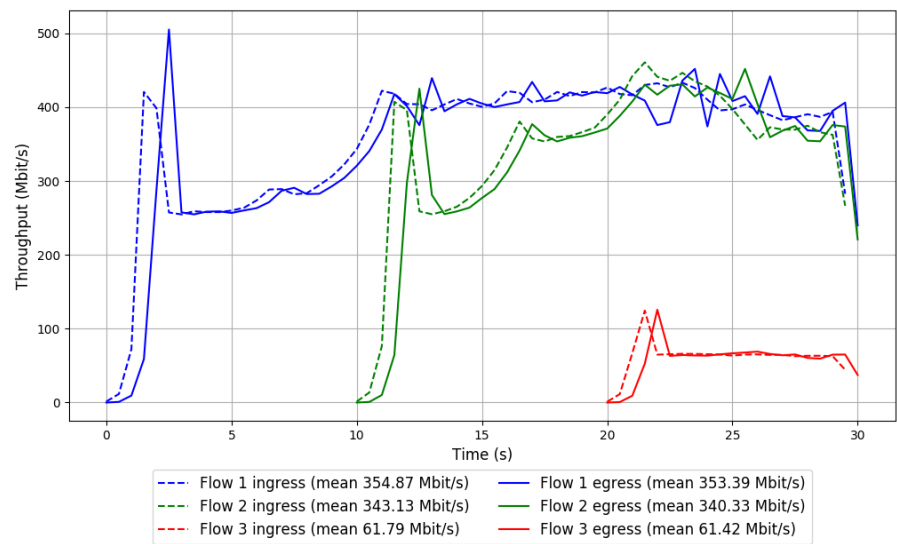


Run 10: Statistics of PCC-Allegro

Start at: 2018-08-12 01:10:44  
End at: 2018-08-12 01:11:14  
Local clock offset: -0.063 ms  
Remote clock offset: -1.338 ms

# Below is generated by plot.py at 2018-08-12 04:06:41  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 599.24 Mbit/s  
95th percentile per-packet one-way delay: 151.979 ms  
Loss rate: 1.10%  
-- Flow 1:  
Average throughput: 353.39 Mbit/s  
95th percentile per-packet one-way delay: 154.765 ms  
Loss rate: 0.85%  
-- Flow 2:  
Average throughput: 340.33 Mbit/s  
95th percentile per-packet one-way delay: 151.762 ms  
Loss rate: 1.43%  
-- Flow 3:  
Average throughput: 61.42 Mbit/s  
95th percentile per-packet one-way delay: 142.834 ms  
Loss rate: 1.82%

Run 10: Report of PCC-Allegro — Data Link



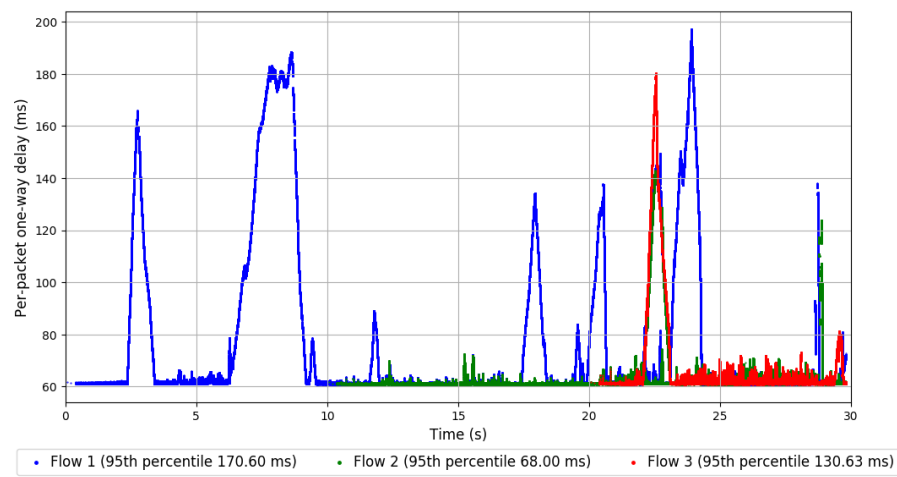
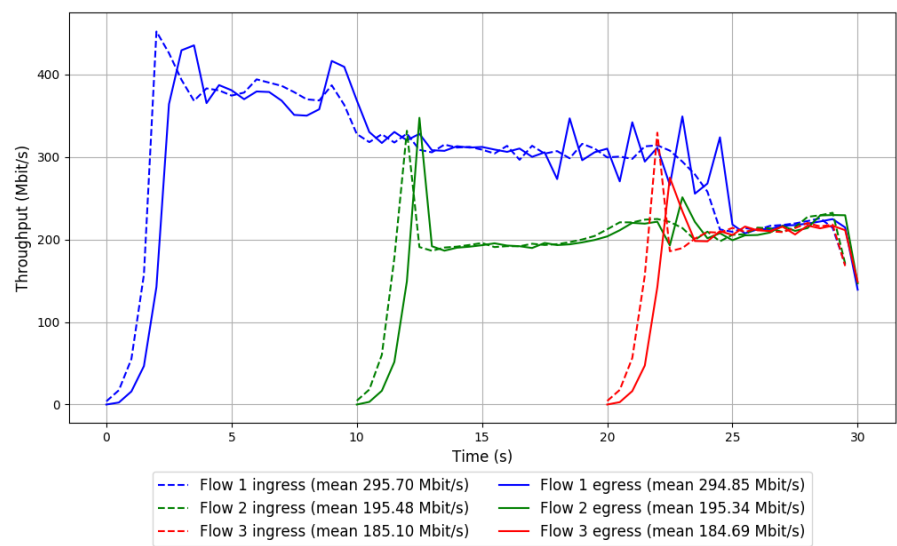
```
Run 1: Statistics of PCC-Expr

Start at: 2018-08-11 21:02:25
End at: 2018-08-11 21:02:55
Local clock offset: 0.077 ms
Remote clock offset: -0.206 ms

# Below is generated by plot.py at 2018-08-12 04:11:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 484.91 Mbit/s
95th percentile per-packet one-way delay: 153.315 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 294.85 Mbit/s
95th percentile per-packet one-way delay: 170.599 ms
Loss rate: 0.70%
-- Flow 2:
Average throughput: 195.34 Mbit/s
95th percentile per-packet one-way delay: 67.997 ms
Loss rate: 0.69%
-- Flow 3:
Average throughput: 184.69 Mbit/s
95th percentile per-packet one-way delay: 130.635 ms
Loss rate: 1.47%
```



Run 1: Report of PCC-Expr — Data Link

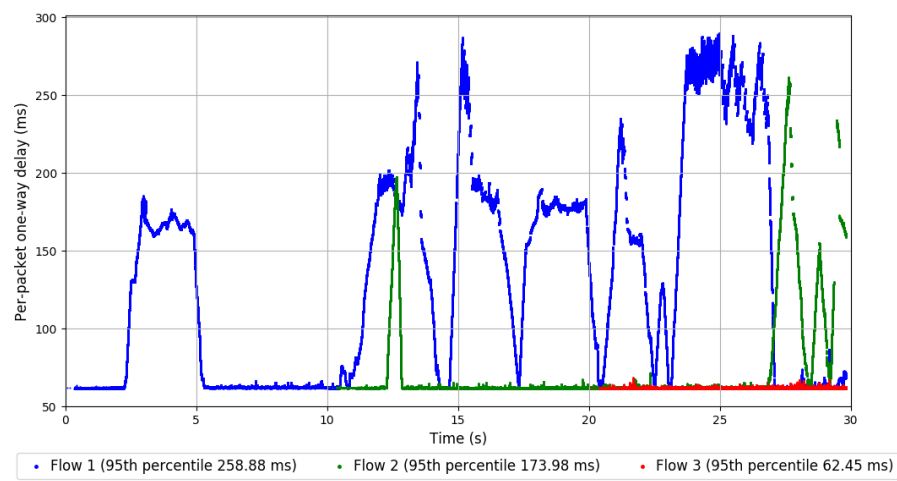
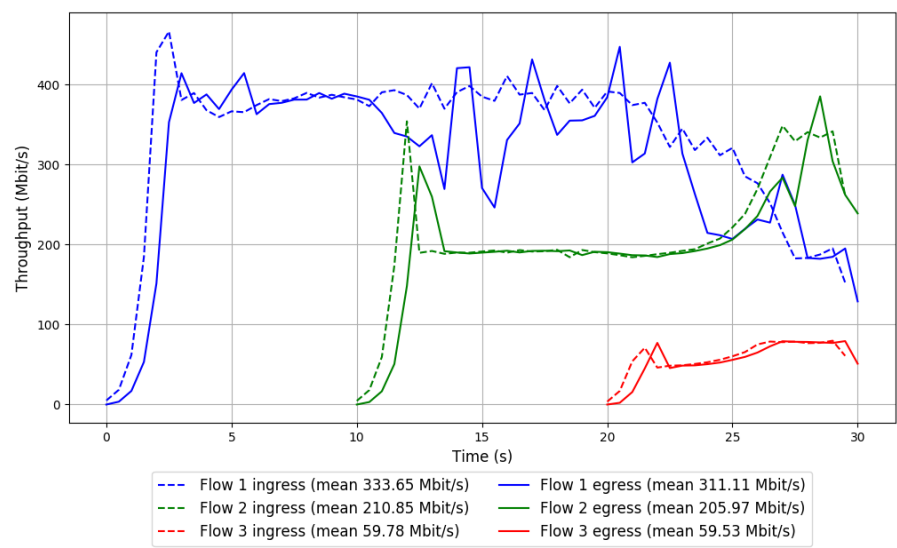


```
Run 2: Statistics of PCC-Expr

Start at: 2018-08-11 21:29:02
End at: 2018-08-11 21:29:32
Local clock offset: 0.022 ms
Remote clock offset: -0.68 ms

# Below is generated by plot.py at 2018-08-12 04:13:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 467.25 Mbit/s
95th percentile per-packet one-way delay: 244.408 ms
Loss rate: 5.73%
-- Flow 1:
Average throughput: 311.11 Mbit/s
95th percentile per-packet one-way delay: 258.875 ms
Loss rate: 7.14%
-- Flow 2:
Average throughput: 205.97 Mbit/s
95th percentile per-packet one-way delay: 173.981 ms
Loss rate: 2.93%
-- Flow 3:
Average throughput: 59.53 Mbit/s
95th percentile per-packet one-way delay: 62.448 ms
Loss rate: 1.66%
```

Run 2: Report of PCC-Expr — Data Link

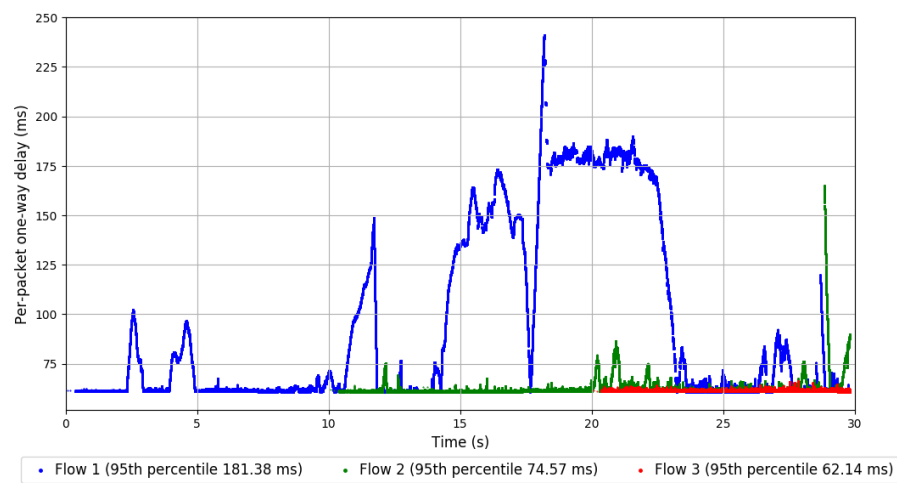
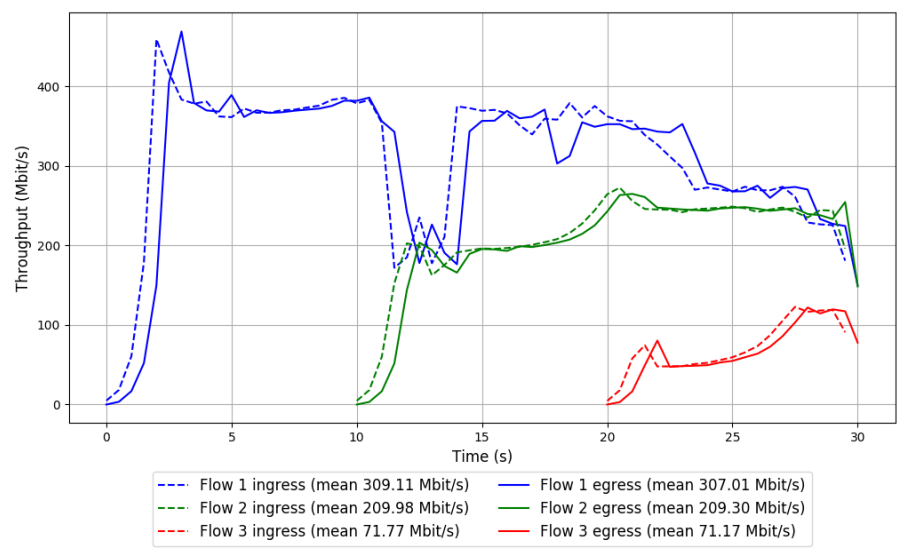


Run 3: Statistics of PCC-Expr

Start at: 2018-08-11 21:55:47  
End at: 2018-08-11 21:56:17  
Local clock offset: -0.093 ms  
Remote clock offset: -0.182 ms

# Below is generated by plot.py at 2018-08-12 04:15:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 469.20 Mbit/s  
95th percentile per-packet one-way delay: 179.575 ms  
Loss rate: 1.10%  
-- Flow 1:  
Average throughput: 307.01 Mbit/s  
95th percentile per-packet one-way delay: 181.378 ms  
Loss rate: 1.09%  
-- Flow 2:  
Average throughput: 209.30 Mbit/s  
95th percentile per-packet one-way delay: 74.573 ms  
Loss rate: 0.94%  
-- Flow 3:  
Average throughput: 71.17 Mbit/s  
95th percentile per-packet one-way delay: 62.136 ms  
Loss rate: 2.09%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2018-08-11 22:22:49

End at: 2018-08-11 22:23:19

Local clock offset: 0.001 ms

Remote clock offset: 0.09 ms

# Below is generated by plot.py at 2018-08-12 04:16:05

# Datalink statistics

-- Total of 3 flows:

Average throughput: 432.10 Mbit/s

95th percentile per-packet one-way delay: 223.014 ms

Loss rate: 1.81%

-- Flow 1:

Average throughput: 256.33 Mbit/s

95th percentile per-packet one-way delay: 116.179 ms

Loss rate: 0.42%

-- Flow 2:

Average throughput: 219.61 Mbit/s

95th percentile per-packet one-way delay: 247.437 ms

Loss rate: 4.23%

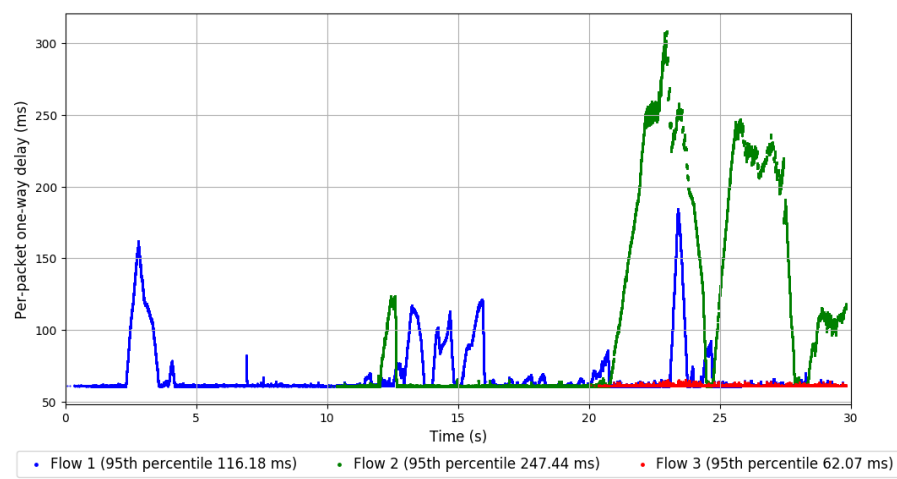
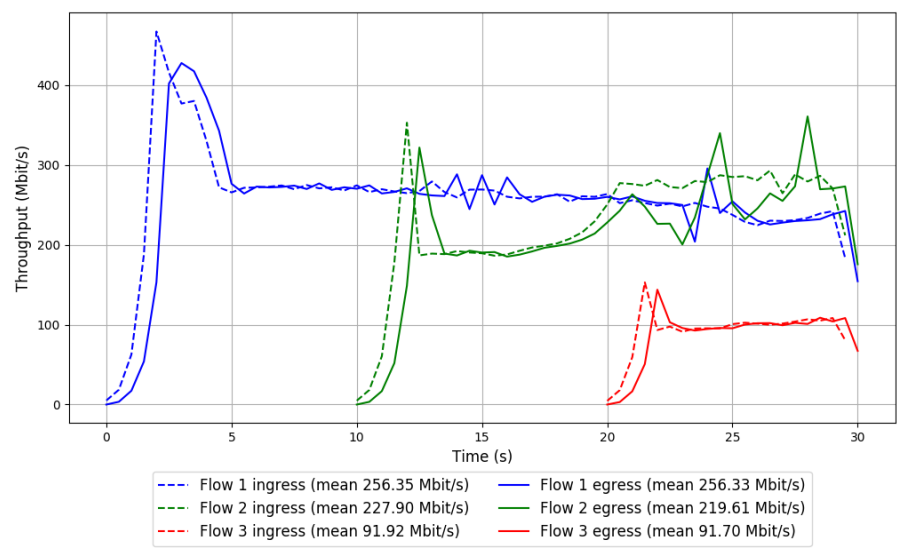
-- Flow 3:

Average throughput: 91.70 Mbit/s

95th percentile per-packet one-way delay: 62.068 ms

Loss rate: 1.49%

Run 4: Report of PCC-Expr — Data Link



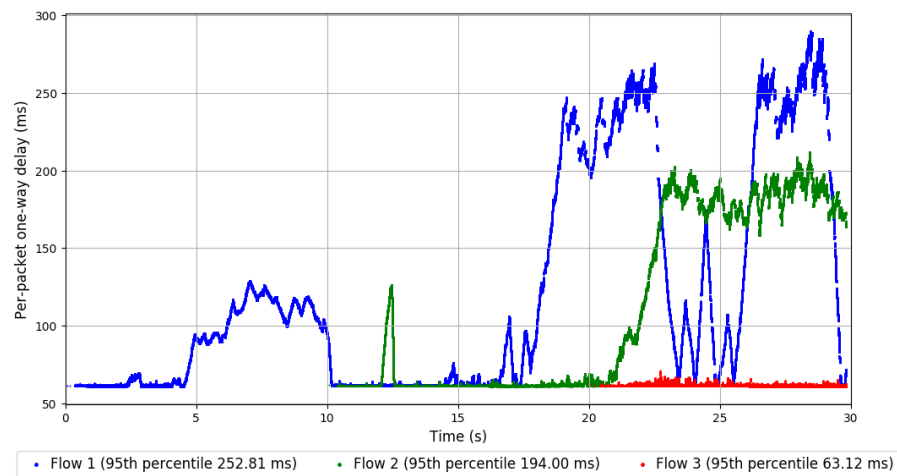
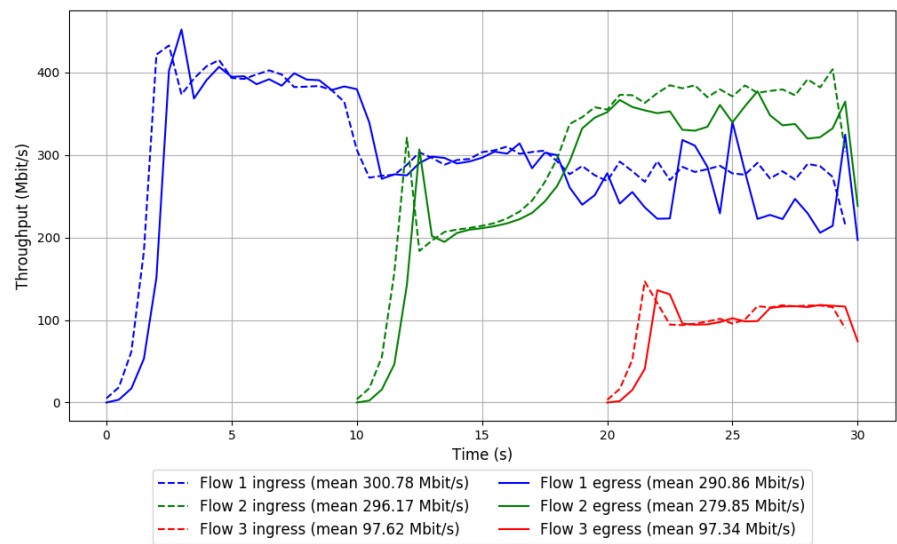
Run 5: Statistics of PCC-Expr

Start at: 2018-08-11 22:49:39  
End at: 2018-08-11 22:50:09  
Local clock offset: -0.07 ms  
Remote clock offset: -0.379 ms

# Below is generated by plot.py at 2018-08-12 04:19:09  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 508.47 Mbit/s  
95th percentile per-packet one-way delay: 242.304 ms  
Loss rate: 4.46%  
-- Flow 1:  
Average throughput: 290.86 Mbit/s  
95th percentile per-packet one-way delay: 252.810 ms  
Loss rate: 3.70%  
-- Flow 2:  
Average throughput: 279.85 Mbit/s  
95th percentile per-packet one-way delay: 194.004 ms  
Loss rate: 6.10%  
-- Flow 3:  
Average throughput: 97.34 Mbit/s  
95th percentile per-packet one-way delay: 63.123 ms  
Loss rate: 1.54%



Run 5: Report of PCC-Expr — Data Link

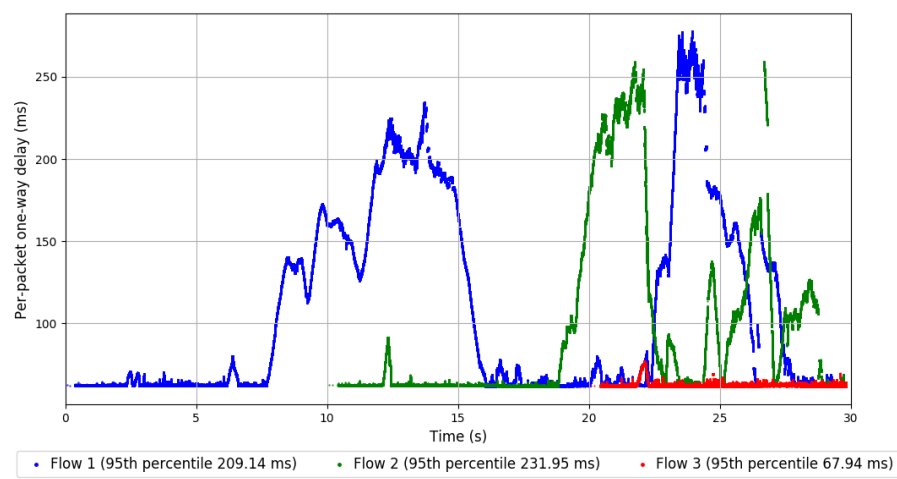
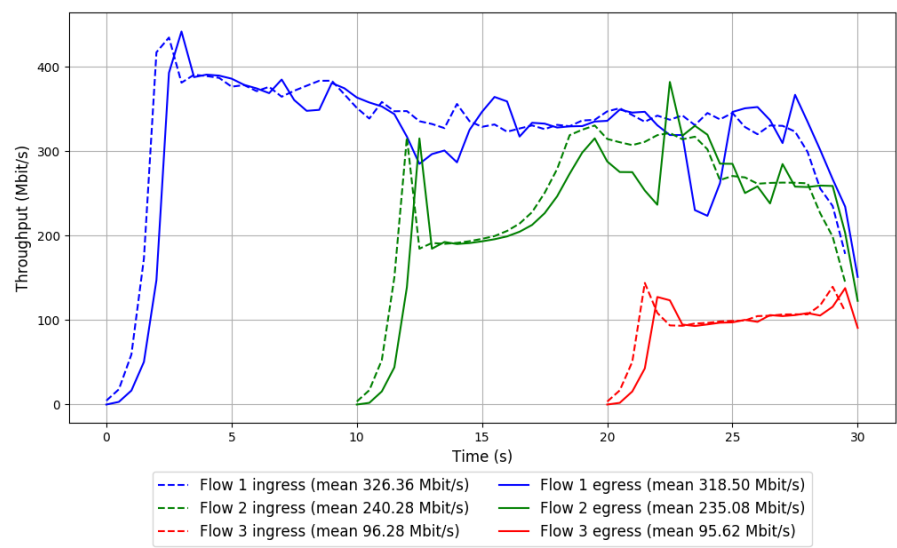


Run 6: Statistics of PCC-Expr

Start at: 2018-08-11 23:16:38  
End at: 2018-08-11 23:17:08  
Local clock offset: 0.057 ms  
Remote clock offset: -0.722 ms

# Below is generated by plot.py at 2018-08-12 04:21:01  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 505.78 Mbit/s  
95th percentile per-packet one-way delay: 217.199 ms  
Loss rate: 2.74%  
-- Flow 1:  
Average throughput: 318.50 Mbit/s  
95th percentile per-packet one-way delay: 209.144 ms  
Loss rate: 2.81%  
-- Flow 2:  
Average throughput: 235.08 Mbit/s  
95th percentile per-packet one-way delay: 231.946 ms  
Loss rate: 2.77%  
-- Flow 3:  
Average throughput: 95.62 Mbit/s  
95th percentile per-packet one-way delay: 67.936 ms  
Loss rate: 1.92%

Run 6: Report of PCC-Expr — Data Link

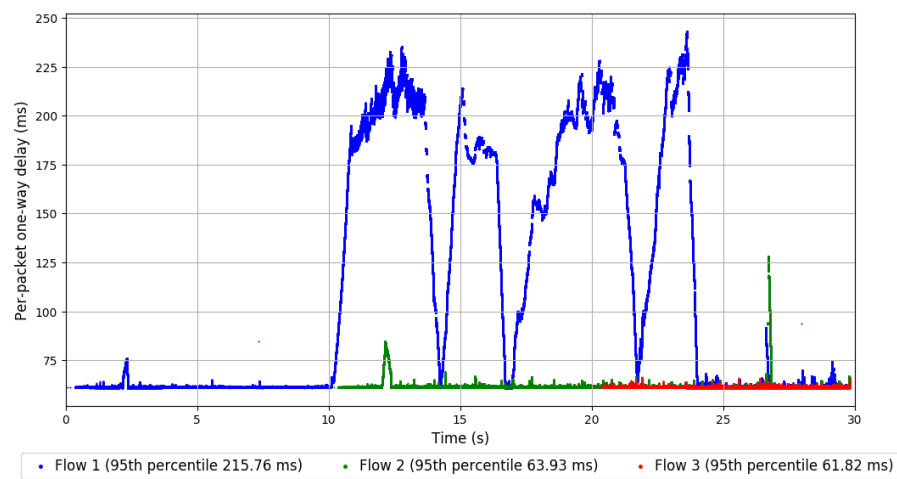
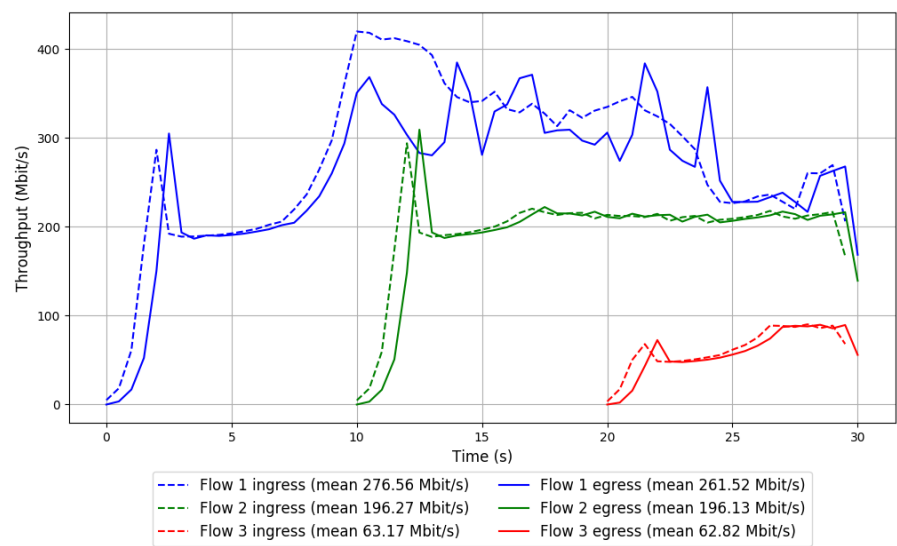


Run 7: Statistics of PCC-Expr

Start at: 2018-08-11 23:43:31  
End at: 2018-08-11 23:44:01  
Local clock offset: -0.022 ms  
Remote clock offset: -0.028 ms

# Below is generated by plot.py at 2018-08-12 04:21:01  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 412.25 Mbit/s  
95th percentile per-packet one-way delay: 211.196 ms  
Loss rate: 4.07%  
-- Flow 1:  
Average throughput: 261.52 Mbit/s  
95th percentile per-packet one-way delay: 215.765 ms  
Loss rate: 5.83%  
-- Flow 2:  
Average throughput: 196.13 Mbit/s  
95th percentile per-packet one-way delay: 63.927 ms  
Loss rate: 0.70%  
-- Flow 3:  
Average throughput: 62.82 Mbit/s  
95th percentile per-packet one-way delay: 61.821 ms  
Loss rate: 1.84%

Run 7: Report of PCC-Expr — Data Link



Run 8: Statistics of PCC-Expr

Start at: 2018-08-12 00:10:16

End at: 2018-08-12 00:10:46

Local clock offset: -0.003 ms

Remote clock offset: 1.074 ms

# Below is generated by plot.py at 2018-08-12 04:25:40

# Datalink statistics

-- Total of 3 flows:

Average throughput: 497.60 Mbit/s

95th percentile per-packet one-way delay: 201.438 ms

Loss rate: 3.05%

-- Flow 1:

Average throughput: 282.91 Mbit/s

95th percentile per-packet one-way delay: 213.329 ms

Loss rate: 3.66%

-- Flow 2:

Average throughput: 227.40 Mbit/s

95th percentile per-packet one-way delay: 187.529 ms

Loss rate: 2.49%

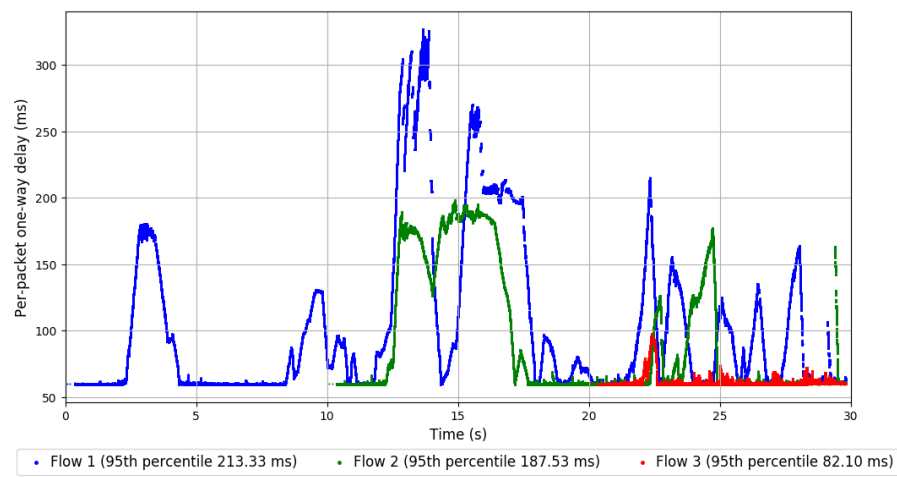
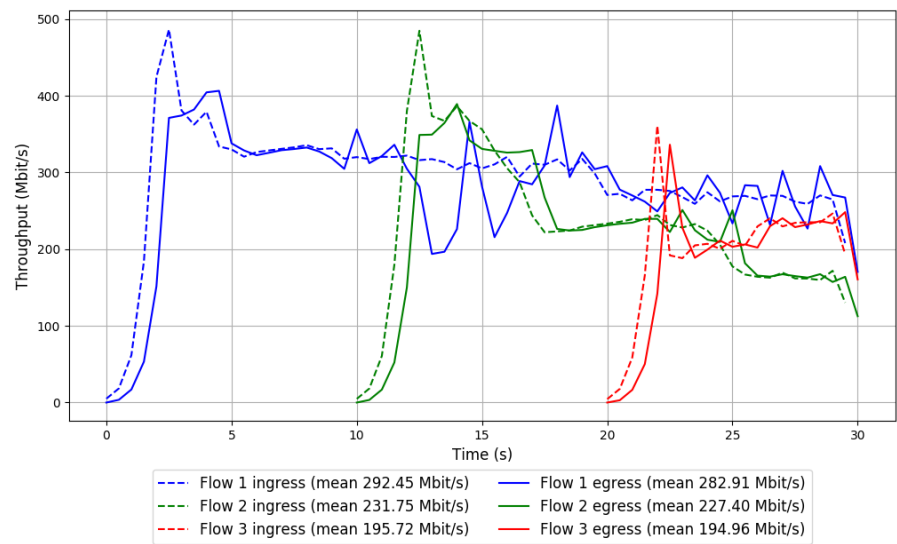
-- Flow 3:

Average throughput: 194.96 Mbit/s

95th percentile per-packet one-way delay: 82.098 ms

Loss rate: 1.62%

Run 8: Report of PCC-Expr — Data Link



Run 9: Statistics of PCC-Expr

Start at: 2018-08-12 00:37:01

End at: 2018-08-12 00:37:31

Local clock offset: -0.09 ms

Remote clock offset: 1.116 ms

# Below is generated by plot.py at 2018-08-12 04:28:34

# Datalink statistics

-- Total of 3 flows:

Average throughput: 462.89 Mbit/s

95th percentile per-packet one-way delay: 205.761 ms

Loss rate: 6.39%

-- Flow 1:

Average throughput: 303.55 Mbit/s

95th percentile per-packet one-way delay: 210.909 ms

Loss rate: 8.92%

-- Flow 2:

Average throughput: 224.96 Mbit/s

95th percentile per-packet one-way delay: 119.935 ms

Loss rate: 1.10%

-- Flow 3:

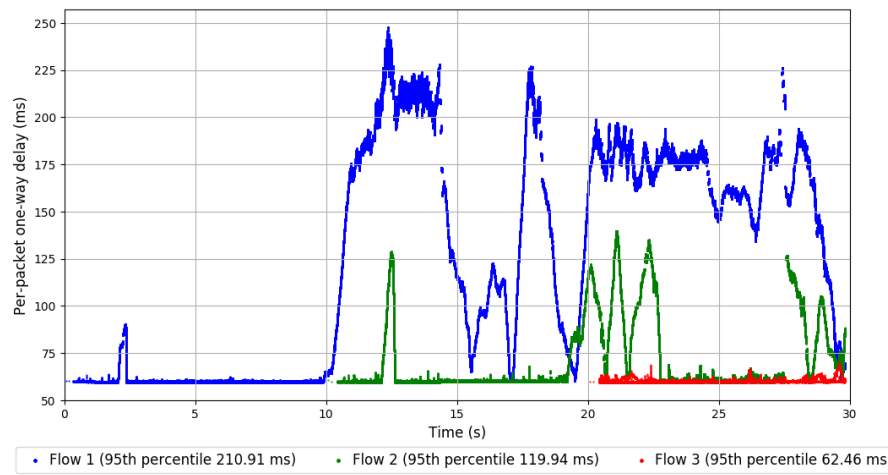
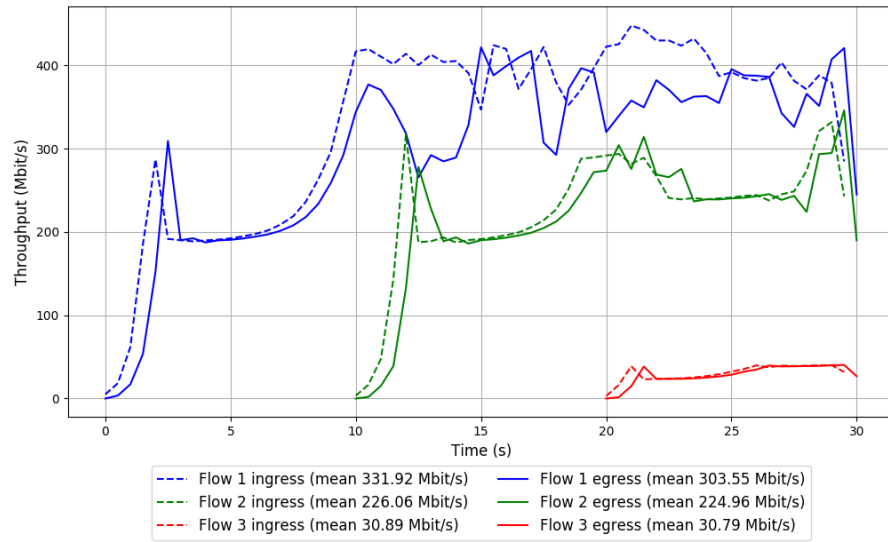
Average throughput: 30.79 Mbit/s

95th percentile per-packet one-way delay: 62.458 ms

Loss rate: 1.60%



# Run 9: Report of PCC-Expr — Data Link

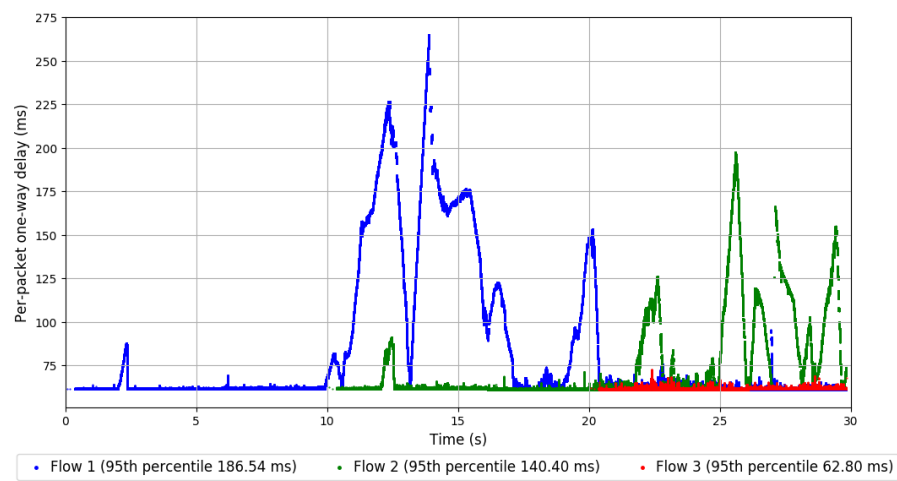
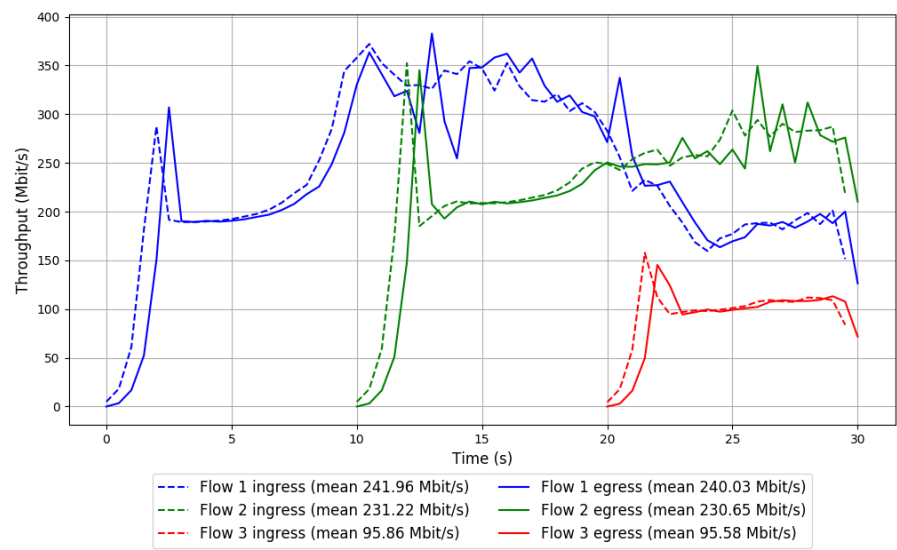


Run 10: Statistics of PCC-Expr

Start at: 2018-08-12 01:03:39  
End at: 2018-08-12 01:04:09  
Local clock offset: -0.025 ms  
Remote clock offset: -0.568 ms

# Below is generated by plot.py at 2018-08-12 04:28:56  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 424.20 Mbit/s  
95th percentile per-packet one-way delay: 173.720 ms  
Loss rate: 1.10%  
-- Flow 1:  
Average throughput: 240.03 Mbit/s  
95th percentile per-packet one-way delay: 186.543 ms  
Loss rate: 1.20%  
-- Flow 2:  
Average throughput: 230.65 Mbit/s  
95th percentile per-packet one-way delay: 140.399 ms  
Loss rate: 0.87%  
-- Flow 3:  
Average throughput: 95.58 Mbit/s  
95th percentile per-packet one-way delay: 62.803 ms  
Loss rate: 1.41%

Run 10: Report of PCC-Expr — Data Link

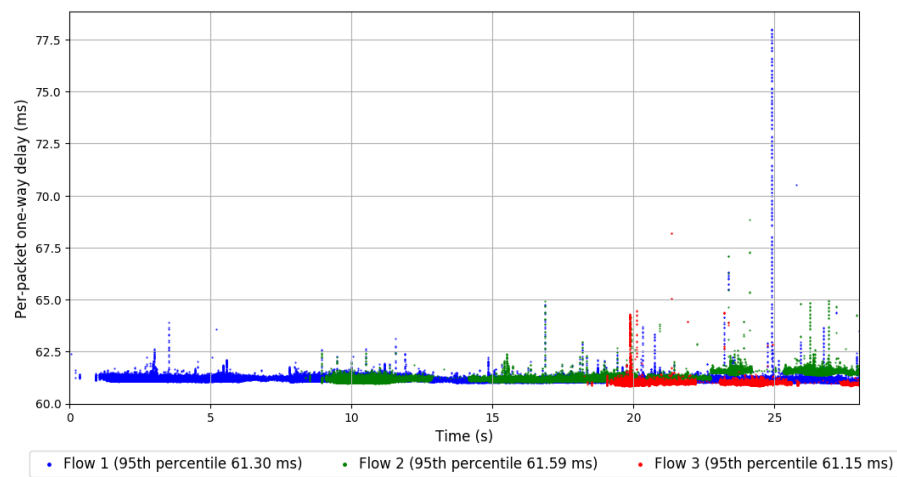
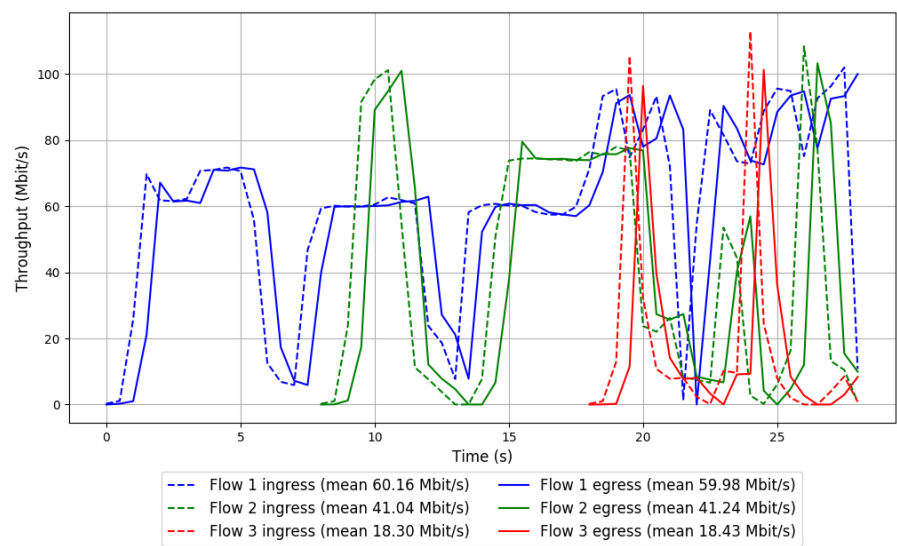


Run 1: Statistics of QUIC Cubic

Start at: 2018-08-11 20:57:30  
End at: 2018-08-11 20:58:00  
Local clock offset: 0.076 ms  
Remote clock offset: -0.142 ms

# Below is generated by plot.py at 2018-08-12 04:28:56  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.58 Mbit/s  
95th percentile per-packet one-way delay: 61.490 ms  
Loss rate: 0.55%  
-- Flow 1:  
Average throughput: 59.98 Mbit/s  
95th percentile per-packet one-way delay: 61.302 ms  
Loss rate: 0.74%  
-- Flow 2:  
Average throughput: 41.24 Mbit/s  
95th percentile per-packet one-way delay: 61.588 ms  
Loss rate: 0.15%  
-- Flow 3:  
Average throughput: 18.43 Mbit/s  
95th percentile per-packet one-way delay: 61.145 ms  
Loss rate: 0.57%

Run 1: Report of QUIC Cubic — Data Link

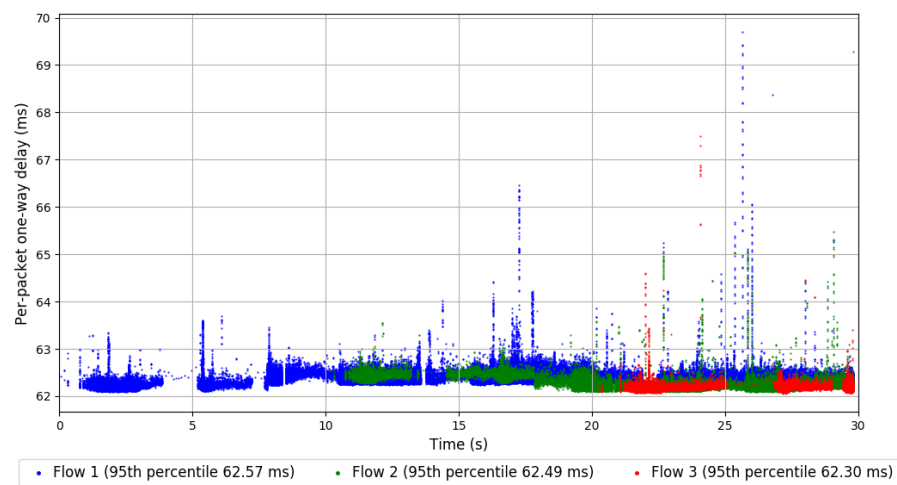
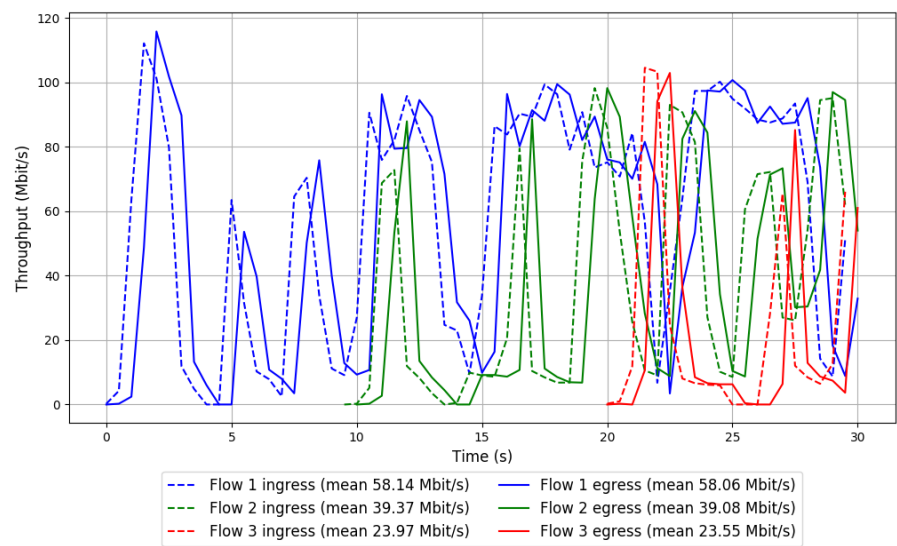


Run 2: Statistics of QUIC Cubic

Start at: 2018-08-11 21:24:07  
End at: 2018-08-11 21:24:37  
Local clock offset: 0.083 ms  
Remote clock offset: -1.386 ms

# Below is generated by plot.py at 2018-08-12 04:28:56  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 91.71 Mbit/s  
95th percentile per-packet one-way delay: 62.540 ms  
Loss rate: 0.97%  
-- Flow 1:  
Average throughput: 58.06 Mbit/s  
95th percentile per-packet one-way delay: 62.566 ms  
Loss rate: 0.56%  
-- Flow 2:  
Average throughput: 39.08 Mbit/s  
95th percentile per-packet one-way delay: 62.492 ms  
Loss rate: 1.29%  
-- Flow 3:  
Average throughput: 23.55 Mbit/s  
95th percentile per-packet one-way delay: 62.300 ms  
Loss rate: 2.97%

Run 2: Report of QUIC Cubic — Data Link



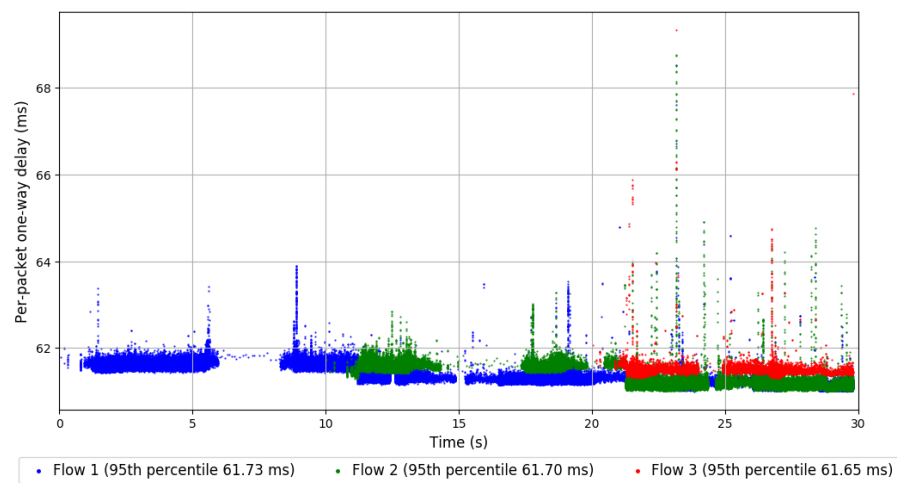
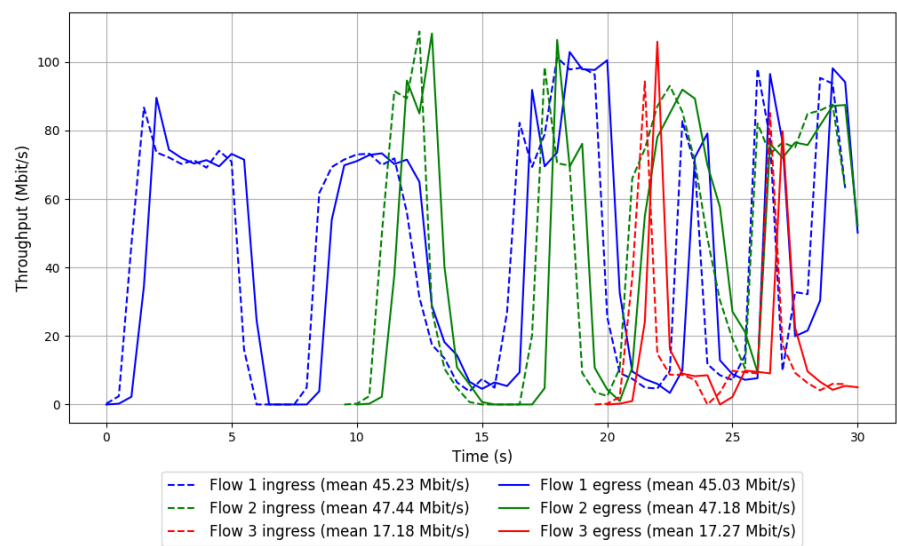
Run 3: Statistics of QUIC Cubic

Start at: 2018-08-11 21:50:55  
End at: 2018-08-11 21:51:25  
Local clock offset: -0.045 ms  
Remote clock offset: -0.397 ms

# Below is generated by plot.py at 2018-08-12 04:28:56  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 82.02 Mbit/s  
95th percentile per-packet one-way delay: 61.719 ms  
Loss rate: 0.95%  
-- Flow 1:  
Average throughput: 45.03 Mbit/s  
95th percentile per-packet one-way delay: 61.730 ms  
Loss rate: 0.85%  
-- Flow 2:  
Average throughput: 47.18 Mbit/s  
95th percentile per-packet one-way delay: 61.704 ms  
Loss rate: 1.16%  
-- Flow 3:  
Average throughput: 17.27 Mbit/s  
95th percentile per-packet one-way delay: 61.652 ms  
Loss rate: 0.59%



Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-08-11 22:17:49

End at: 2018-08-11 22:18:19

Local clock offset: -0.045 ms

Remote clock offset: 0.001 ms

# Below is generated by plot.py at 2018-08-12 04:28:56

# Datalink statistics

-- Total of 3 flows:

Average throughput: 103.24 Mbit/s

95th percentile per-packet one-way delay: 61.459 ms

Loss rate: 0.84%

-- Flow 1:

Average throughput: 55.52 Mbit/s

95th percentile per-packet one-way delay: 61.250 ms

Loss rate: 0.56%

-- Flow 2:

Average throughput: 48.22 Mbit/s

95th percentile per-packet one-way delay: 61.190 ms

Loss rate: 0.85%

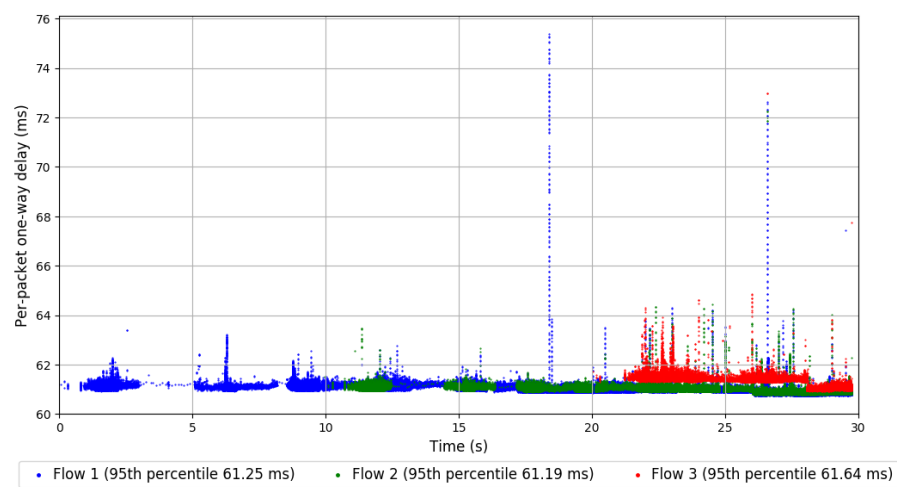
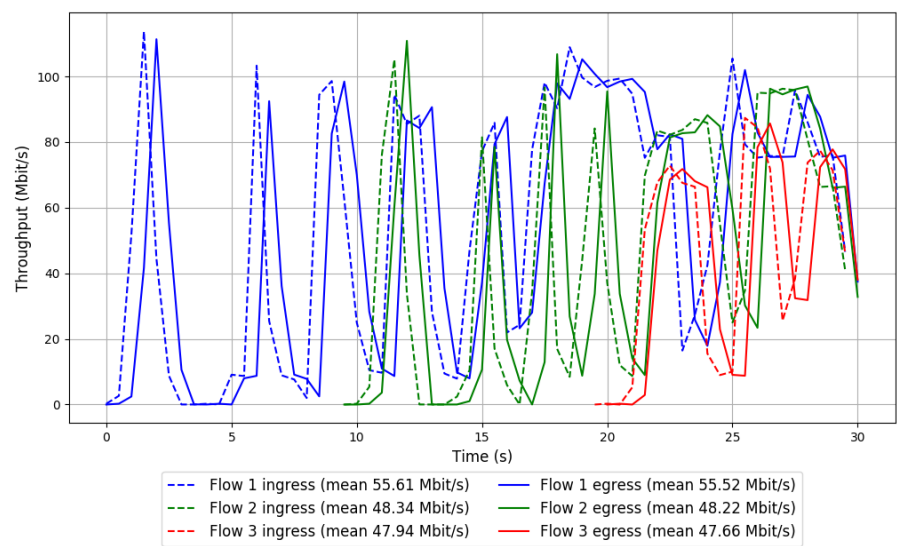
-- Flow 3:

Average throughput: 47.66 Mbit/s

95th percentile per-packet one-way delay: 61.639 ms

Loss rate: 1.78%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-08-11 22:44:46

End at: 2018-08-11 22:45:16

Local clock offset: -0.047 ms

Remote clock offset: 0.606 ms

# Below is generated by plot.py at 2018-08-12 04:28:56

# Datalink statistics

-- Total of 3 flows:

Average throughput: 41.21 Mbit/s

95th percentile per-packet one-way delay: 60.584 ms

Loss rate: 1.16%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 60.755 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 50.98 Mbit/s

95th percentile per-packet one-way delay: 60.595 ms

Loss rate: 1.16%

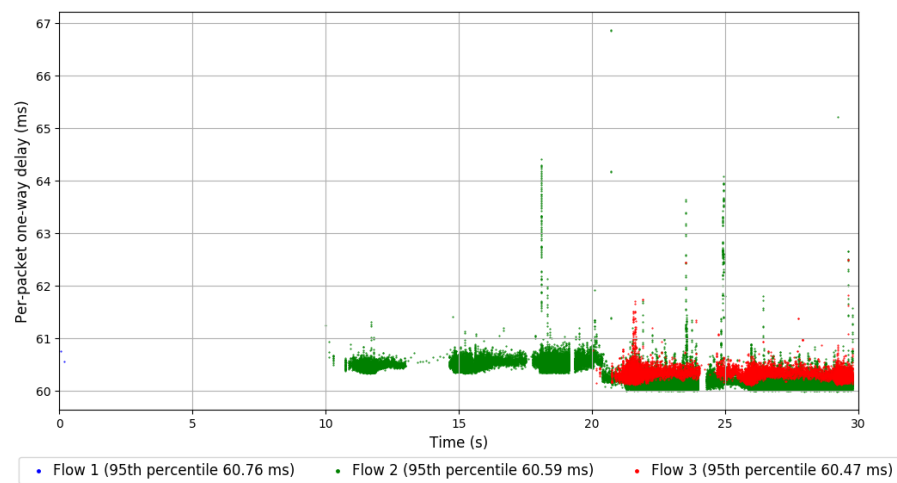
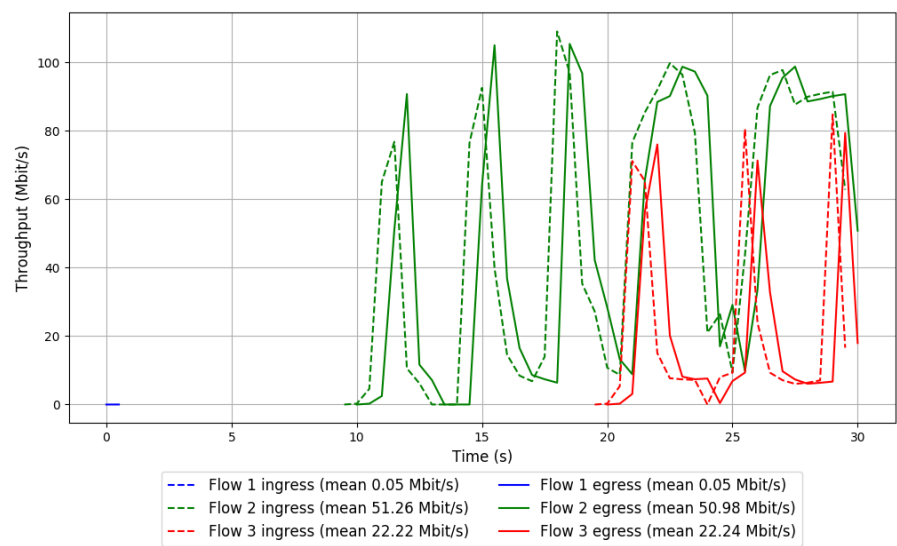
-- Flow 3:

Average throughput: 22.24 Mbit/s

95th percentile per-packet one-way delay: 60.469 ms

Loss rate: 1.16%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-08-11 23:11:48

End at: 2018-08-11 23:12:18

Local clock offset: -0.085 ms

Remote clock offset: 0.07 ms

# Below is generated by plot.py at 2018-08-12 04:28:56

# Datalink statistics

-- Total of 3 flows:

Average throughput: 75.52 Mbit/s

95th percentile per-packet one-way delay: 61.117 ms

Loss rate: 0.93%

-- Flow 1:

Average throughput: 44.37 Mbit/s

95th percentile per-packet one-way delay: 61.131 ms

Loss rate: 0.72%

-- Flow 2:

Average throughput: 38.39 Mbit/s

95th percentile per-packet one-way delay: 61.091 ms

Loss rate: 1.50%

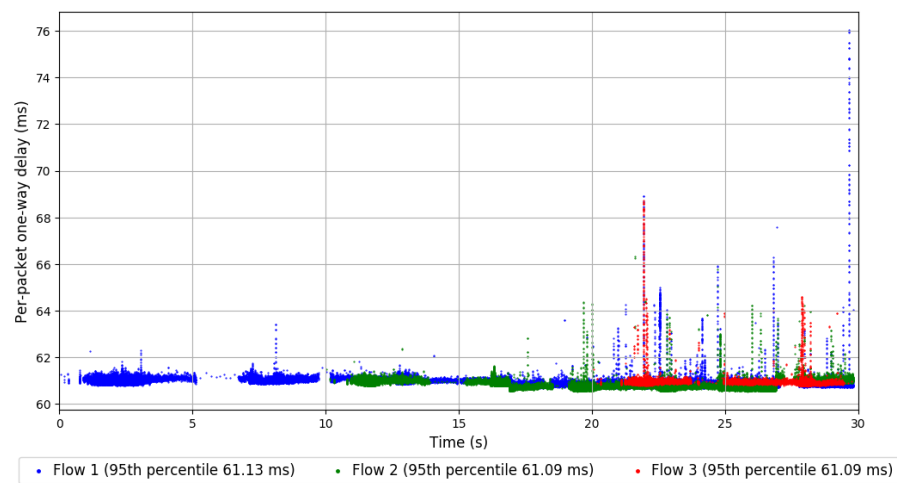
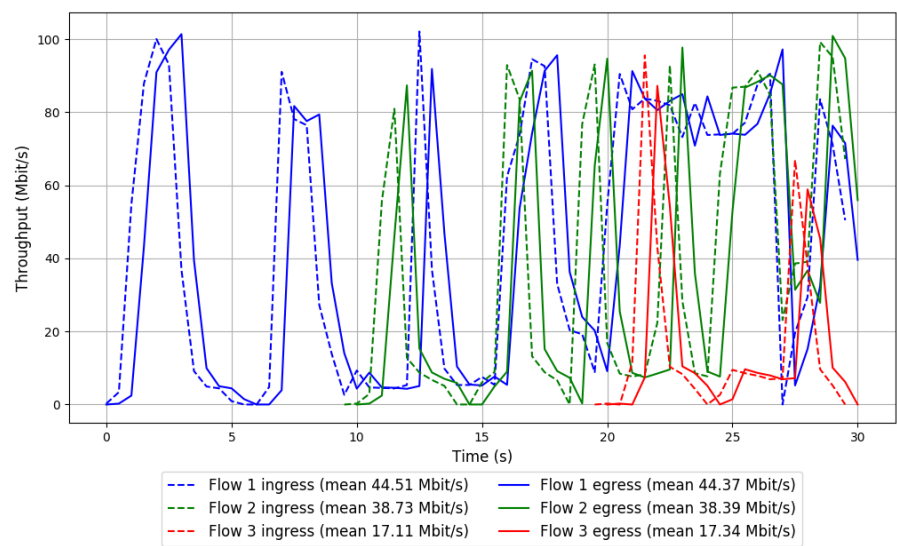
-- Flow 3:

Average throughput: 17.34 Mbit/s

95th percentile per-packet one-way delay: 61.086 ms

Loss rate: 0.00%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-08-11 23:38:35

End at: 2018-08-11 23:39:05

Local clock offset: 0.061 ms

Remote clock offset: 0.503 ms

# Below is generated by plot.py at 2018-08-12 04:28:56

# Datalink statistics

-- Total of 3 flows:

Average throughput: 91.51 Mbit/s

95th percentile per-packet one-way delay: 61.000 ms

Loss rate: 0.85%

-- Flow 1:

Average throughput: 53.00 Mbit/s

95th percentile per-packet one-way delay: 61.028 ms

Loss rate: 0.58%

-- Flow 2:

Average throughput: 48.50 Mbit/s

95th percentile per-packet one-way delay: 60.788 ms

Loss rate: 1.20%

-- Flow 3:

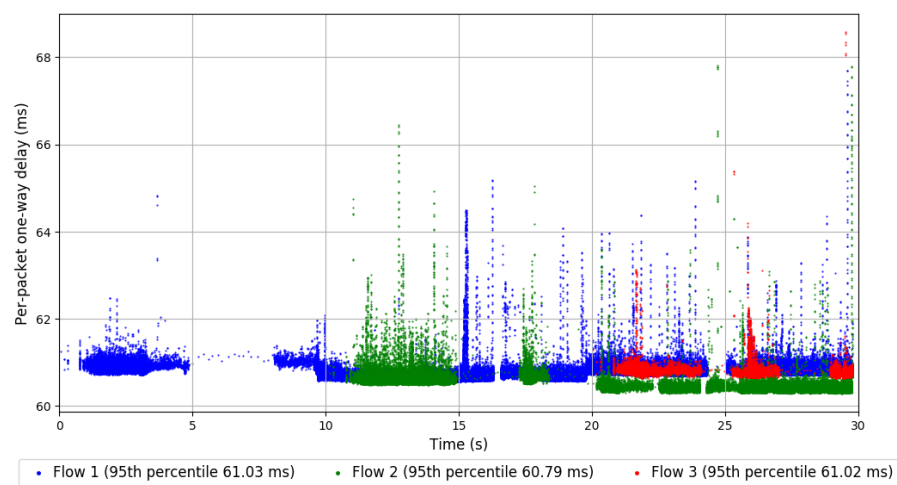
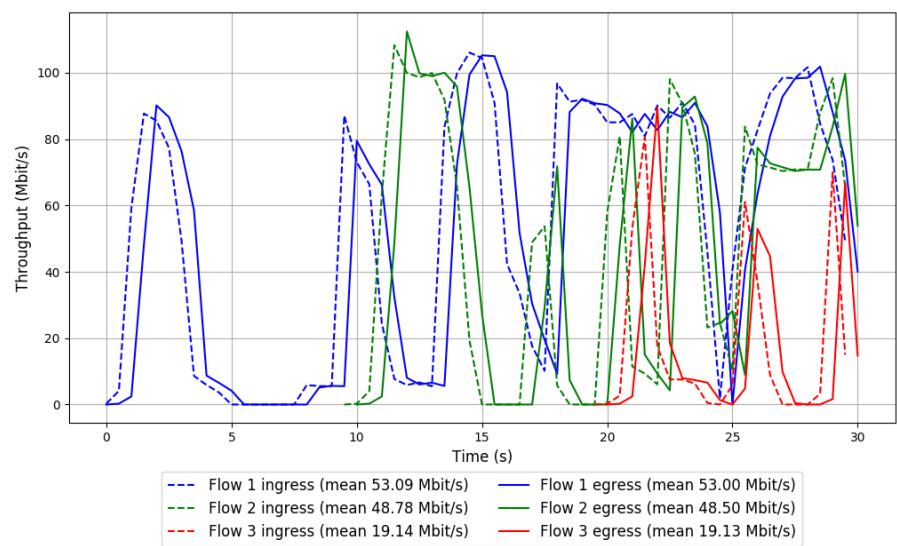
Average throughput: 19.13 Mbit/s

95th percentile per-packet one-way delay: 61.022 ms

Loss rate: 1.33%



Run 7: Report of QUIC Cubic — Data Link

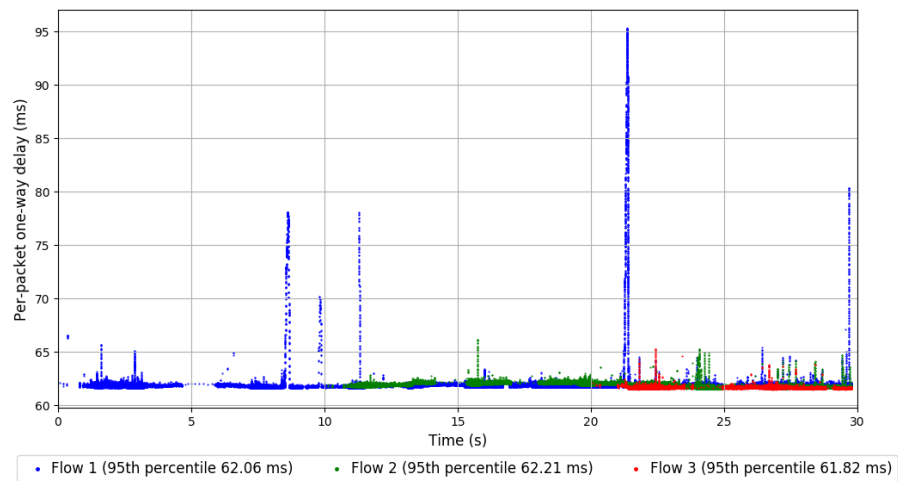
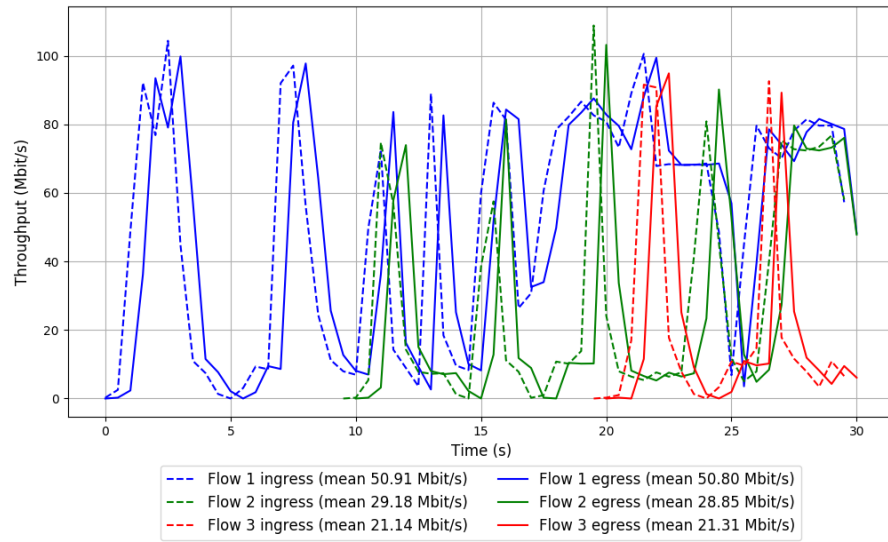


Run 8: Statistics of QUIC Cubic

Start at: 2018-08-12 00:05:23  
End at: 2018-08-12 00:05:53  
Local clock offset: -0.055 ms  
Remote clock offset: -0.716 ms

# Below is generated by plot.py at 2018-08-12 04:28:56  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 76.96 Mbit/s  
95th percentile per-packet one-way delay: 62.130 ms  
Loss rate: 0.89%  
-- Flow 1:  
Average throughput: 50.80 Mbit/s  
95th percentile per-packet one-way delay: 62.060 ms  
Loss rate: 0.64%  
-- Flow 2:  
Average throughput: 28.85 Mbit/s  
95th percentile per-packet one-way delay: 62.207 ms  
Loss rate: 1.72%  
-- Flow 3:  
Average throughput: 21.31 Mbit/s  
95th percentile per-packet one-way delay: 61.820 ms  
Loss rate: 0.44%

## Run 8: Report of QUIC Cubic — Data Link

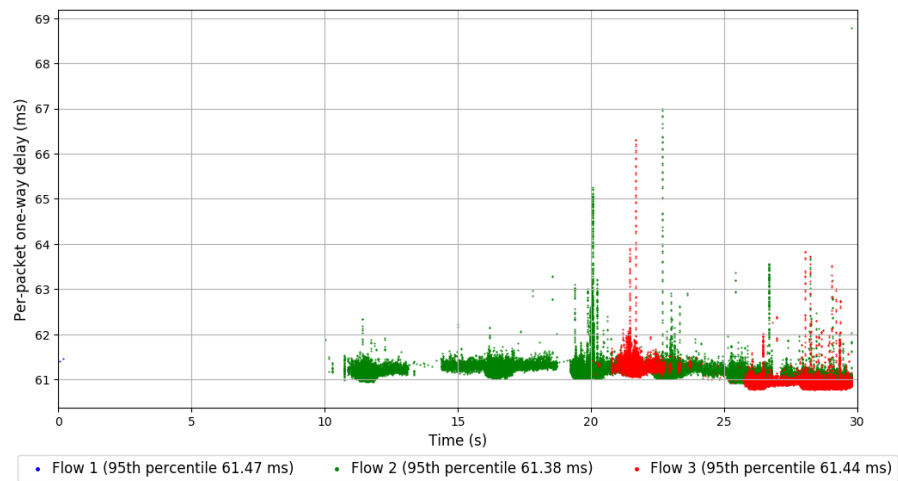
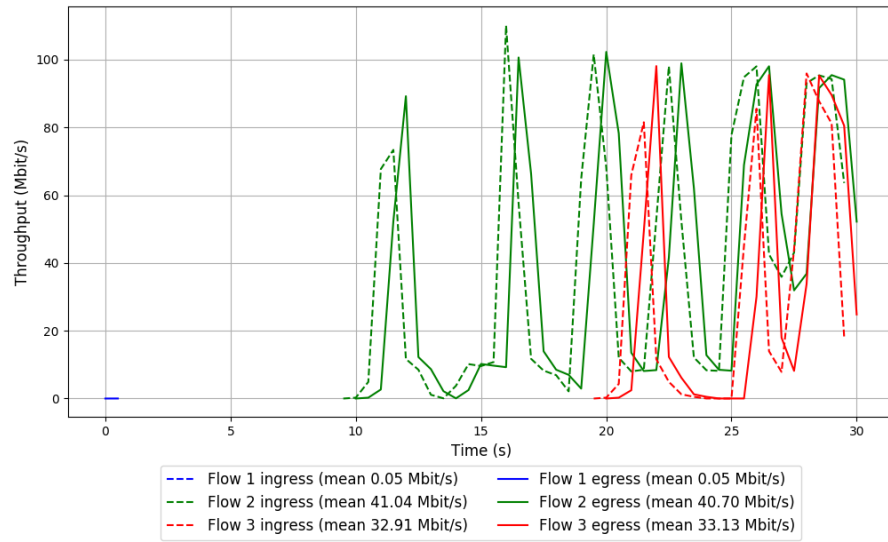


Run 9: Statistics of QUIC Cubic

Start at: 2018-08-12 00:32:11  
End at: 2018-08-12 00:32:41  
Local clock offset: -0.074 ms  
Remote clock offset: -0.193 ms

# Below is generated by plot.py at 2018-08-12 04:28:56  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 37.93 Mbit/s  
95th percentile per-packet one-way delay: 61.396 ms  
Loss rate: 1.18%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 61.465 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 40.70 Mbit/s  
95th percentile per-packet one-way delay: 61.382 ms  
Loss rate: 1.42%  
-- Flow 3:  
Average throughput: 33.13 Mbit/s  
95th percentile per-packet one-way delay: 61.435 ms  
Loss rate: 0.58%

## Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-08-12 00:58:48

End at: 2018-08-12 00:59:18

Local clock offset: -0.026 ms

Remote clock offset: 0.054 ms

# Below is generated by plot.py at 2018-08-12 04:28:56

# Datalink statistics

-- Total of 3 flows:

Average throughput: 81.62 Mbit/s

95th percentile per-packet one-way delay: 61.293 ms

Loss rate: 0.97%

-- Flow 1:

Average throughput: 51.00 Mbit/s

95th percentile per-packet one-way delay: 61.319 ms

Loss rate: 0.47%

-- Flow 2:

Average throughput: 35.23 Mbit/s

95th percentile per-packet one-way delay: 61.237 ms

Loss rate: 1.17%

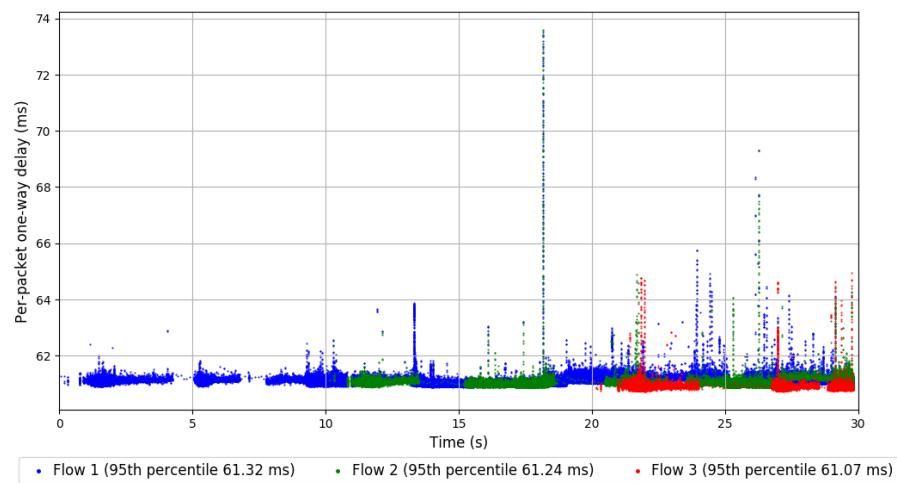
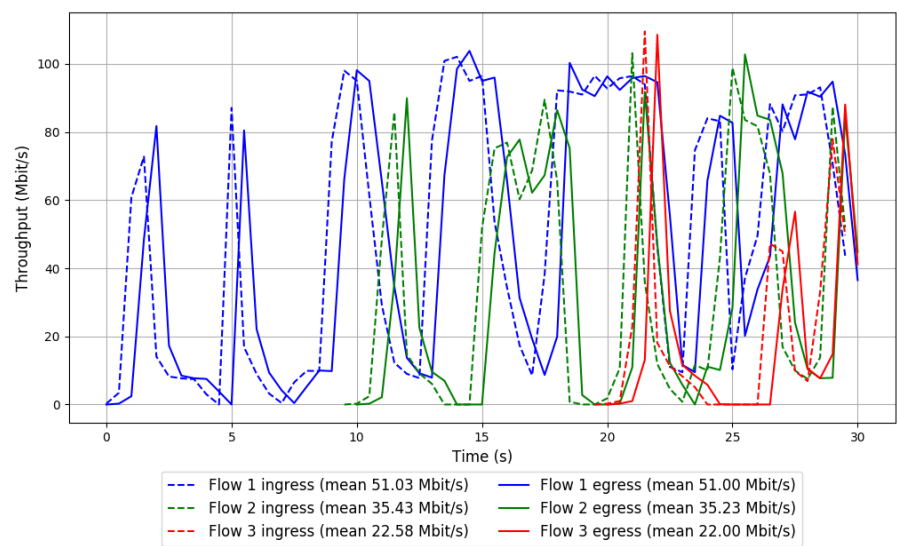
-- Flow 3:

Average throughput: 22.00 Mbit/s

95th percentile per-packet one-way delay: 61.073 ms

Loss rate: 3.76%

Run 10: Report of QUIC Cubic — Data Link



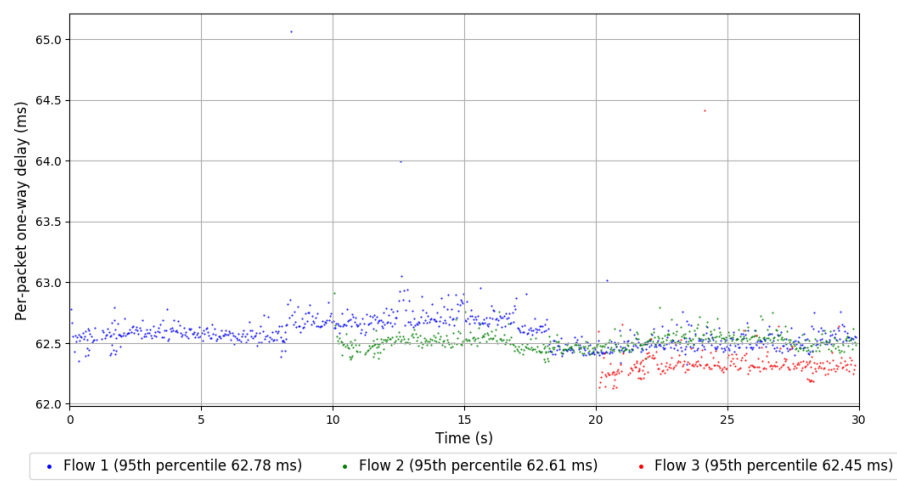
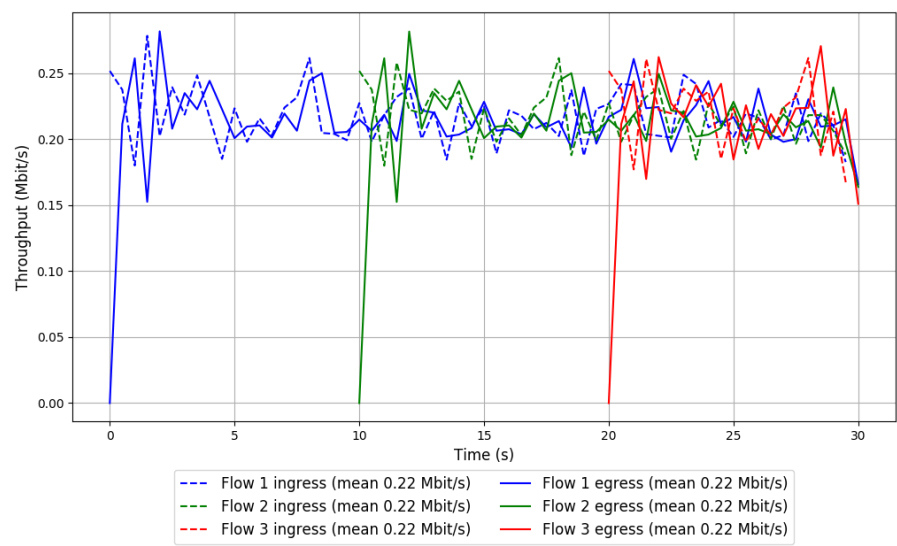
```
Run 1: Statistics of SReAM

Start at: 2018-08-11 21:01:16
End at: 2018-08-11 21:01:46
Local clock offset: 0.037 ms
Remote clock offset: -1.371 ms

# Below is generated by plot.py at 2018-08-12 04:28:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 62.729 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 62.776 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 62.609 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 62.454 ms
Loss rate: 1.10%
```



Run 1: Report of SReAM — Data Link

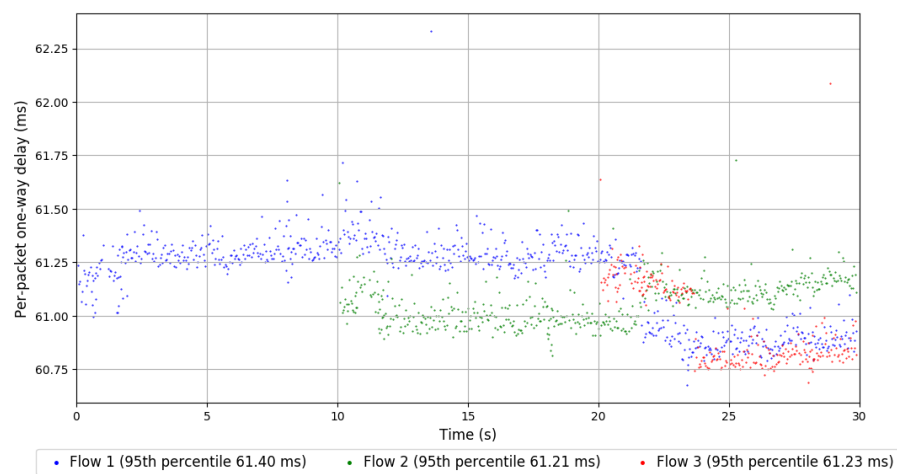
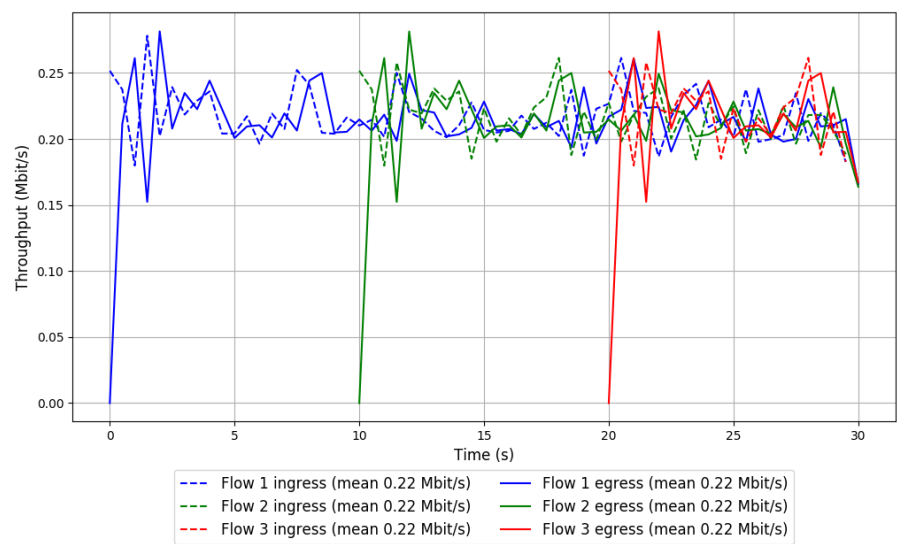


```
Run 2: Statistics of SReAM

Start at: 2018-08-11 21:27:53
End at: 2018-08-11 21:28:23
Local clock offset: 0.075 ms
Remote clock offset: 0.043 ms

# Below is generated by plot.py at 2018-08-12 04:28:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 61.374 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 61.402 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 61.208 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 61.232 ms
Loss rate: 1.08%
```

Run 2: Report of SReAM — Data Link

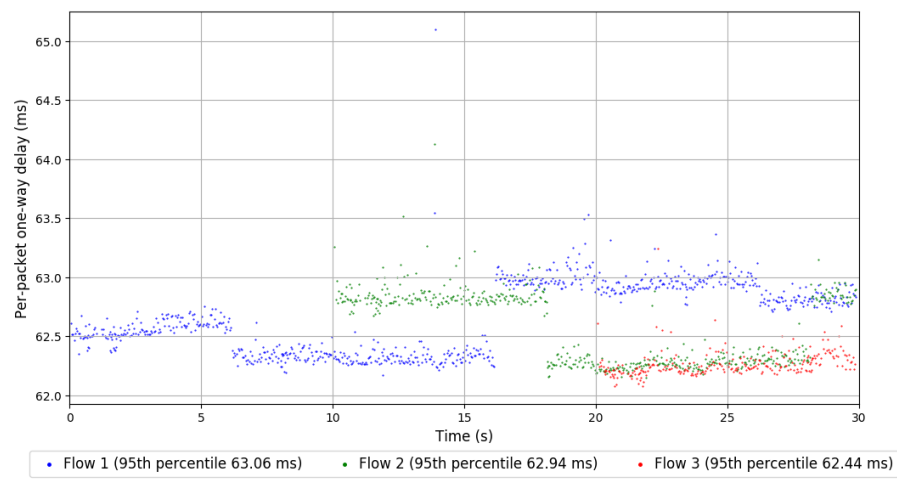
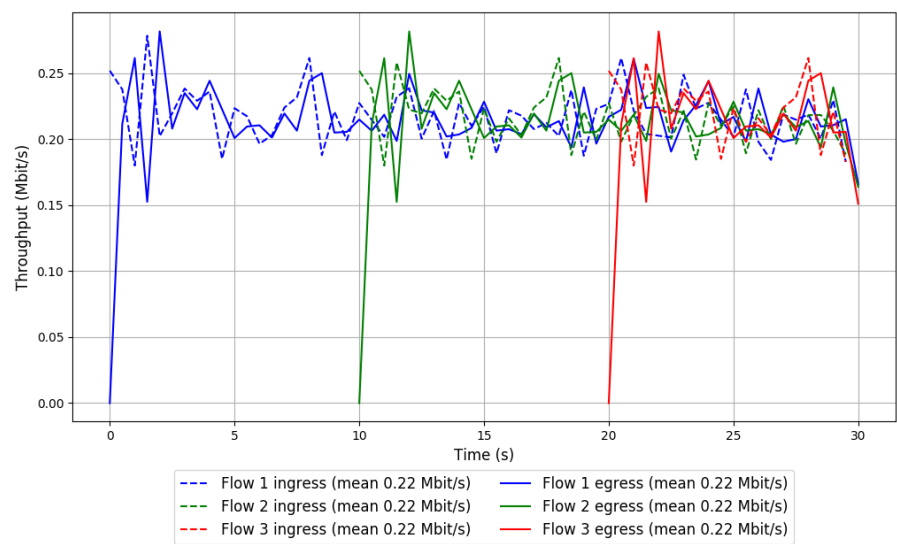


Run 3: Statistics of SReAM

Start at: 2018-08-11 21:54:39  
End at: 2018-08-11 21:55:09  
Local clock offset: -0.119 ms  
Remote clock offset: -1.453 ms

# Below is generated by plot.py at 2018-08-12 04:28:56  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 63.013 ms  
Loss rate: 0.64%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 63.056 ms  
Loss rate: 0.38%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 62.943 ms  
Loss rate: 0.61%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 62.441 ms  
Loss rate: 1.45%

Run 3: Report of SReAM — Data Link

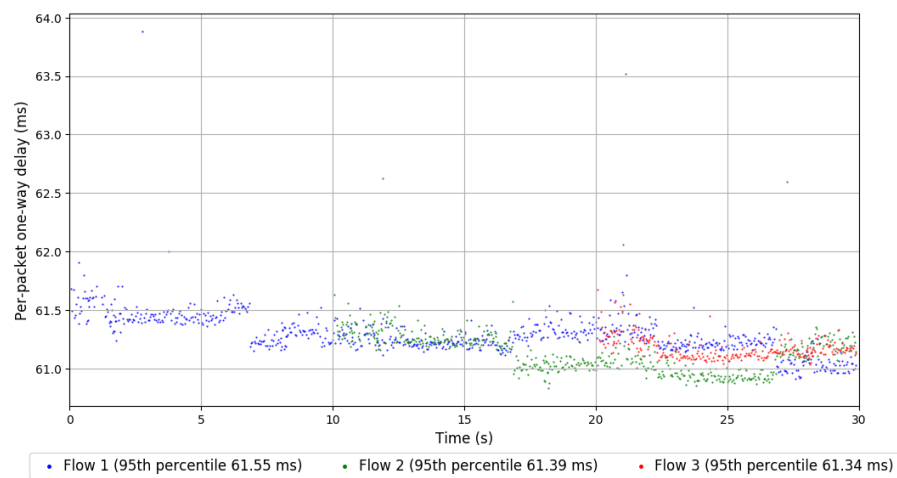
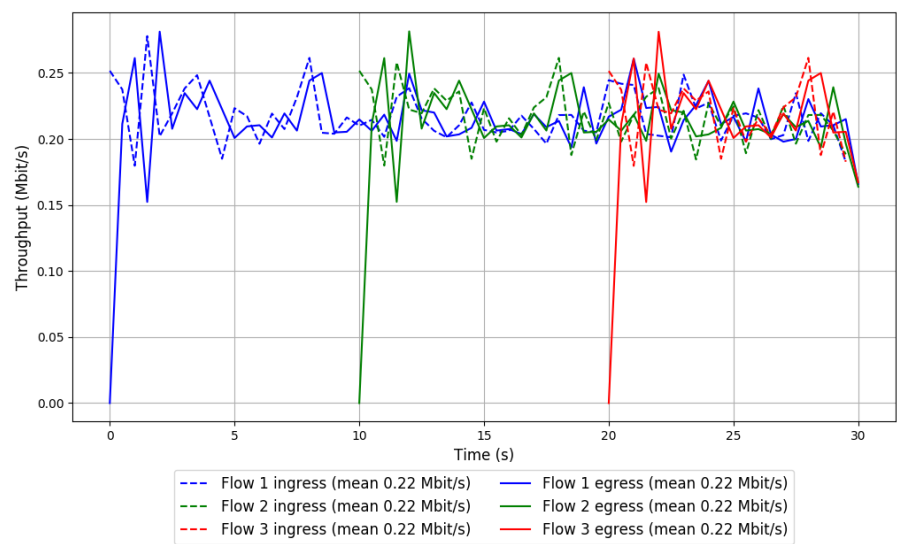


Run 4: Statistics of SReAM

Start at: 2018-08-11 22:21:40  
End at: 2018-08-11 22:22:10  
Local clock offset: -0.069 ms  
Remote clock offset: -0.119 ms

# Below is generated by plot.py at 2018-08-12 04:28:56  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.44 Mbit/s  
95th percentile per-packet one-way delay: 61.507 ms  
Loss rate: 0.57%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 61.554 ms  
Loss rate: 0.38%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 61.387 ms  
Loss rate: 0.61%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 61.337 ms  
Loss rate: 1.08%

Run 4: Report of SReAM — Data Link



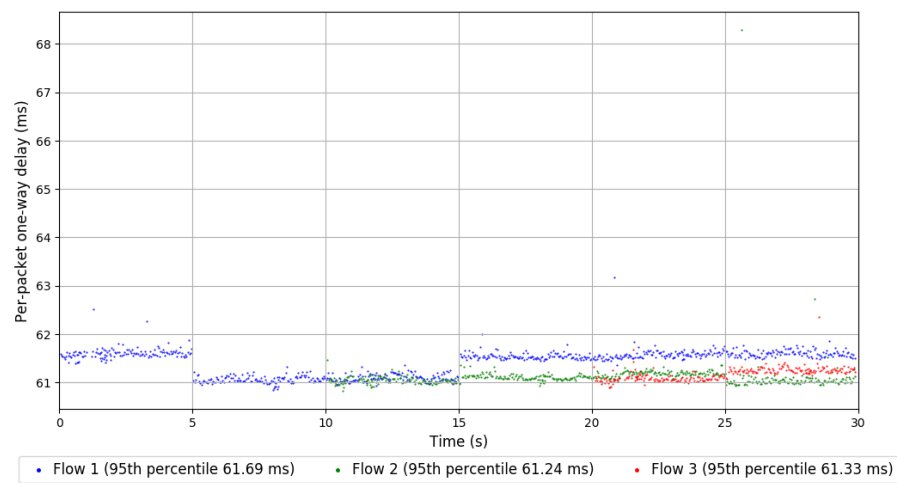
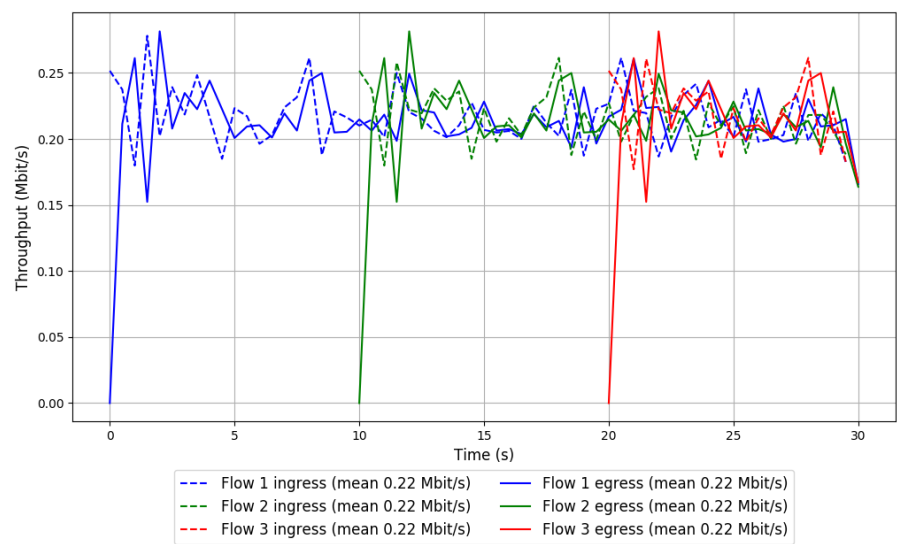
Run 5: Statistics of SReAM

Start at: 2018-08-11 22:48:30  
End at: 2018-08-11 22:49:00  
Local clock offset: -0.034 ms  
Remote clock offset: -0.062 ms

# Below is generated by plot.py at 2018-08-12 04:28:56  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.44 Mbit/s  
95th percentile per-packet one-way delay: 61.649 ms  
Loss rate: 0.57%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 61.691 ms  
Loss rate: 0.38%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 61.239 ms  
Loss rate: 0.61%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 61.326 ms  
Loss rate: 1.08%



Run 5: Report of SCReAM — Data Link



Run 6: Statistics of SReAM

Start at: 2018-08-11 23:15:29

End at: 2018-08-11 23:15:59

Local clock offset: -0.017 ms

Remote clock offset: 0.384 ms

# Below is generated by plot.py at 2018-08-12 04:28:56

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 61.296 ms

Loss rate: 0.57%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 61.343 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 61.120 ms

Loss rate: 0.61%

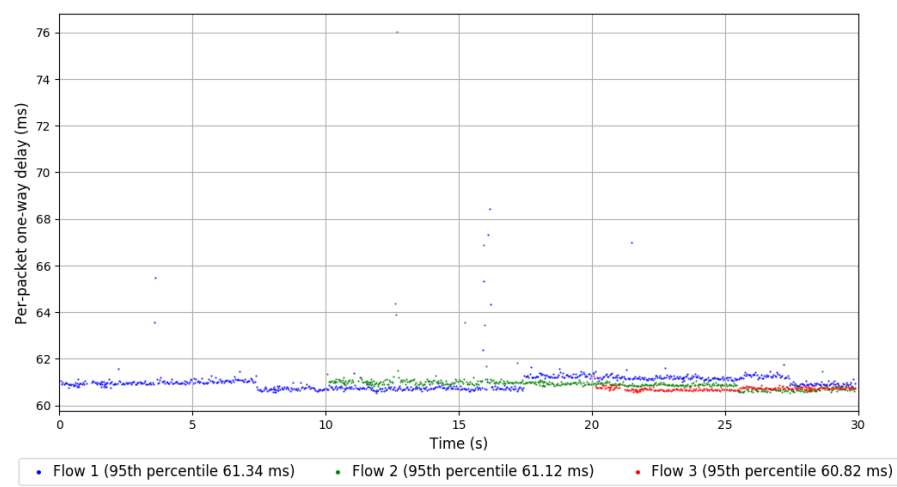
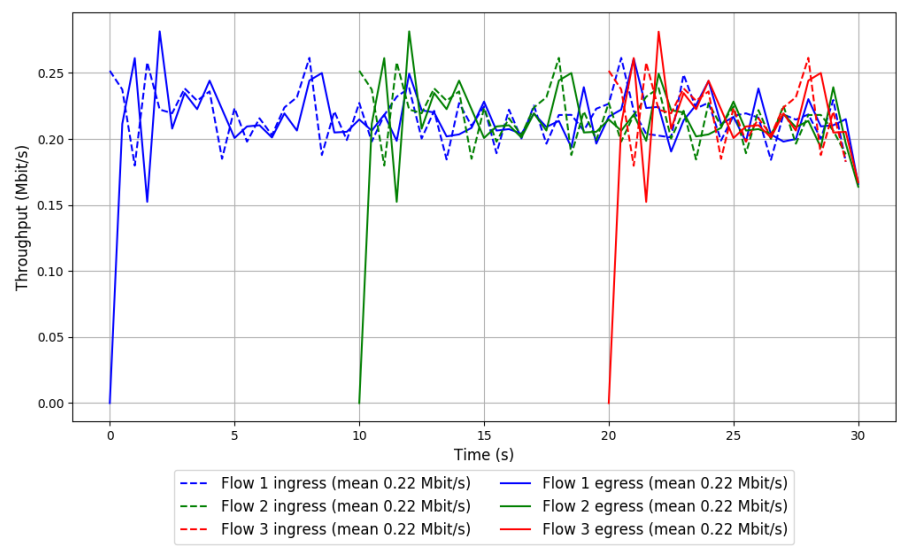
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 60.819 ms

Loss rate: 1.08%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SReAM

Start at: 2018-08-11 23:42:22

End at: 2018-08-11 23:42:52

Local clock offset: -0.035 ms

Remote clock offset: 0.251 ms

# Below is generated by plot.py at 2018-08-12 04:28:56

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 61.309 ms

Loss rate: 0.57%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 61.314 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 61.314 ms

Loss rate: 0.61%

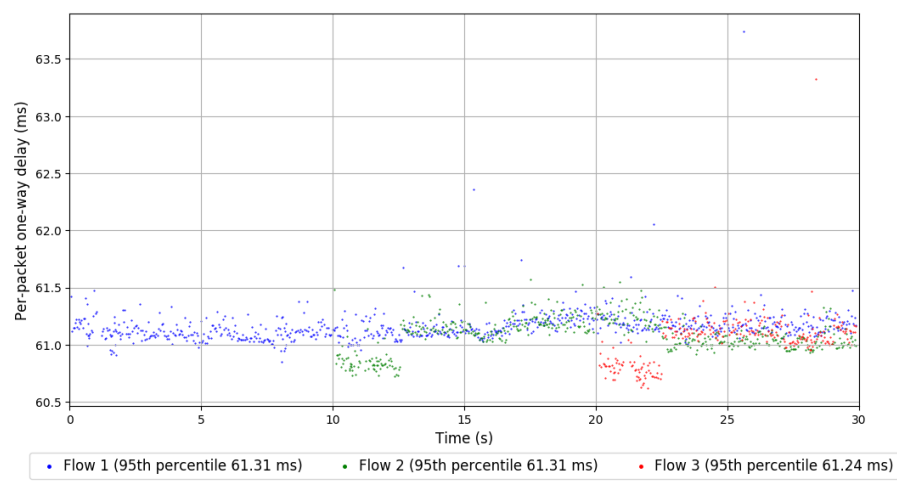
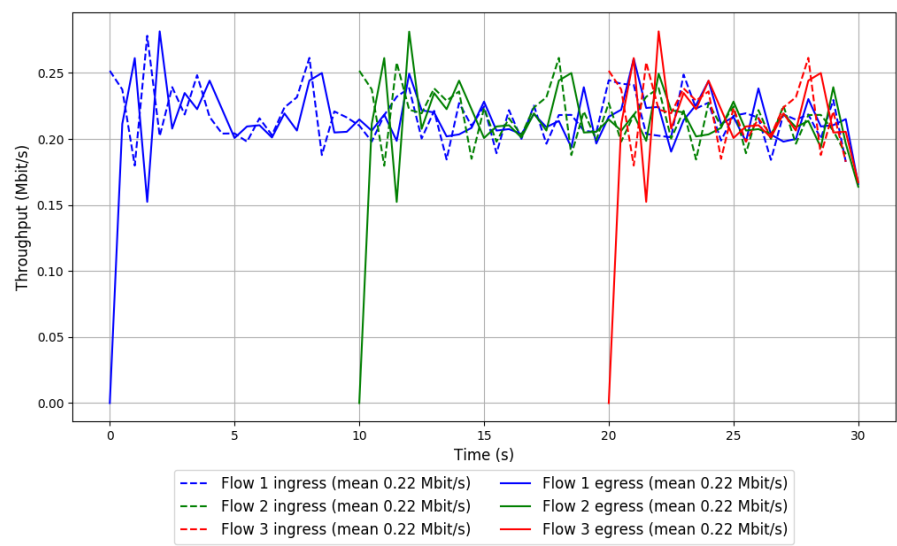
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 61.243 ms

Loss rate: 1.08%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SReAM

Start at: 2018-08-12 00:09:08

End at: 2018-08-12 00:09:38

Local clock offset: -0.059 ms

Remote clock offset: 0.727 ms

# Below is generated by plot.py at 2018-08-12 04:28:56

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 60.925 ms

Loss rate: 0.57%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 61.018 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 60.700 ms

Loss rate: 0.61%

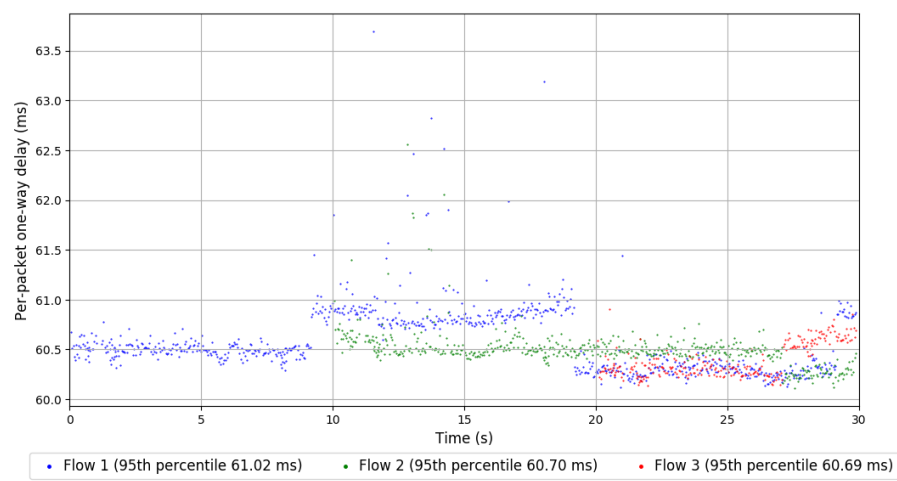
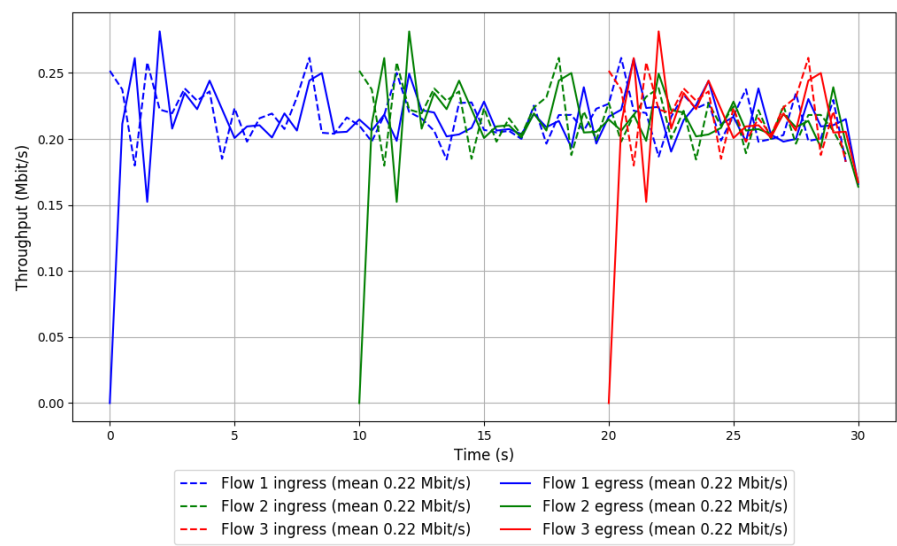
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 60.688 ms

Loss rate: 1.08%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SReAM

Start at: 2018-08-12 00:35:52

End at: 2018-08-12 00:36:22

Local clock offset: -0.071 ms

Remote clock offset: 0.501 ms

# Below is generated by plot.py at 2018-08-12 04:28:56

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 61.031 ms

Loss rate: 0.58%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 61.074 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 60.888 ms

Loss rate: 0.61%

-- Flow 3:

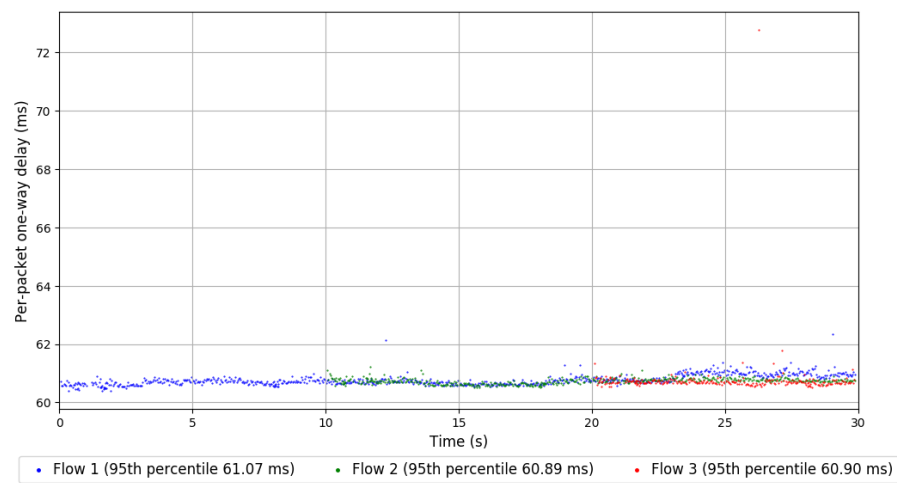
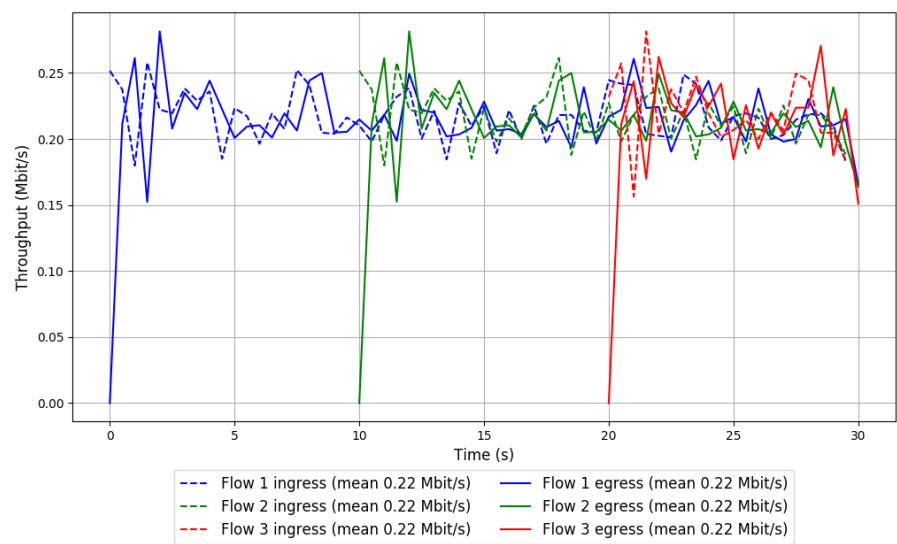
Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 60.897 ms

Loss rate: 1.10%



Run 9: Report of SCReAM — Data Link

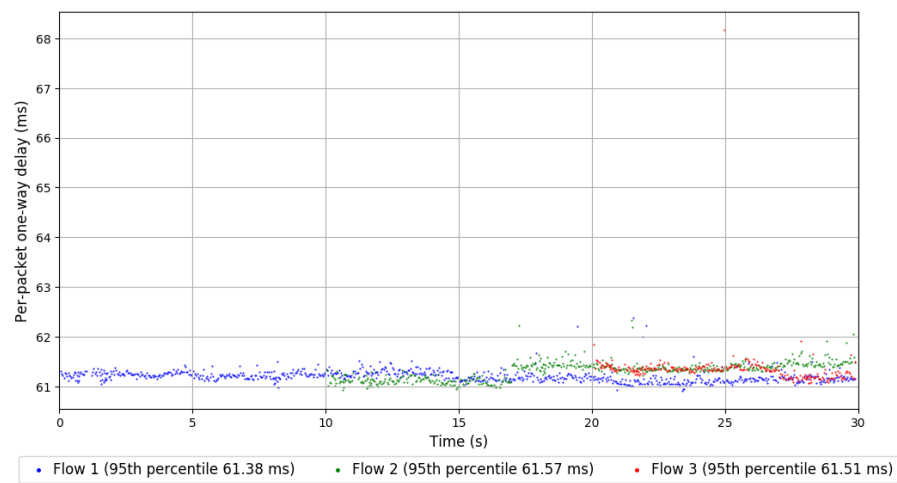
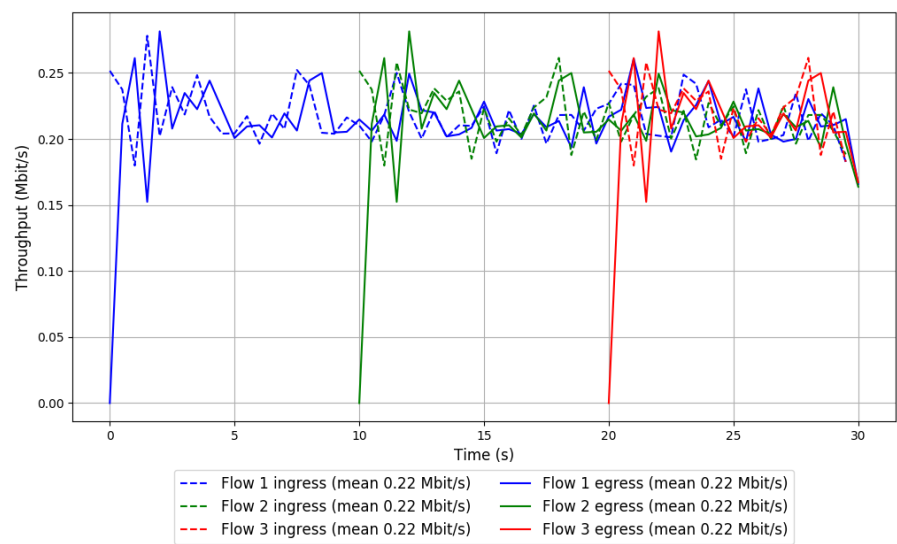


Run 10: Statistics of SReAM

Start at: 2018-08-12 01:02:30  
End at: 2018-08-12 01:03:00  
Local clock offset: -0.074 ms  
Remote clock offset: -0.045 ms

# Below is generated by plot.py at 2018-08-12 04:28:56  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.44 Mbit/s  
95th percentile per-packet one-way delay: 61.497 ms  
Loss rate: 0.57%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 61.375 ms  
Loss rate: 0.38%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 61.569 ms  
Loss rate: 0.61%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 61.513 ms  
Loss rate: 1.08%

Run 10: Report of SReAM — Data Link

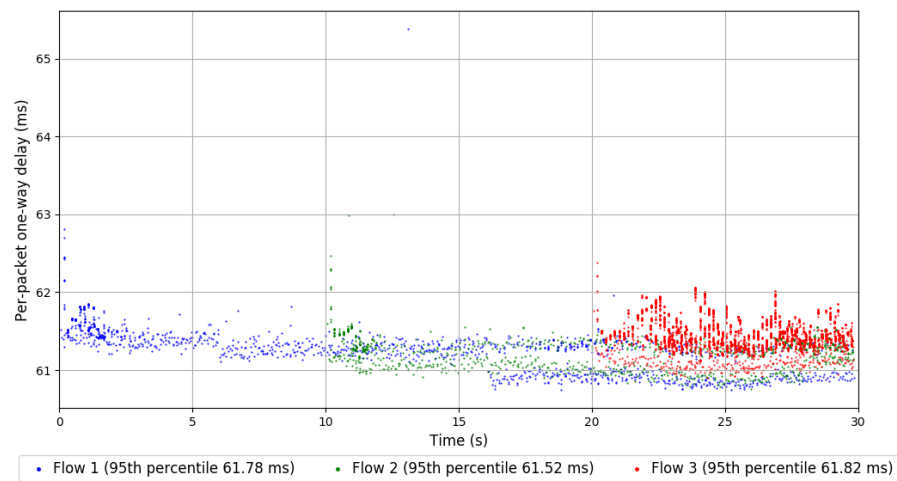
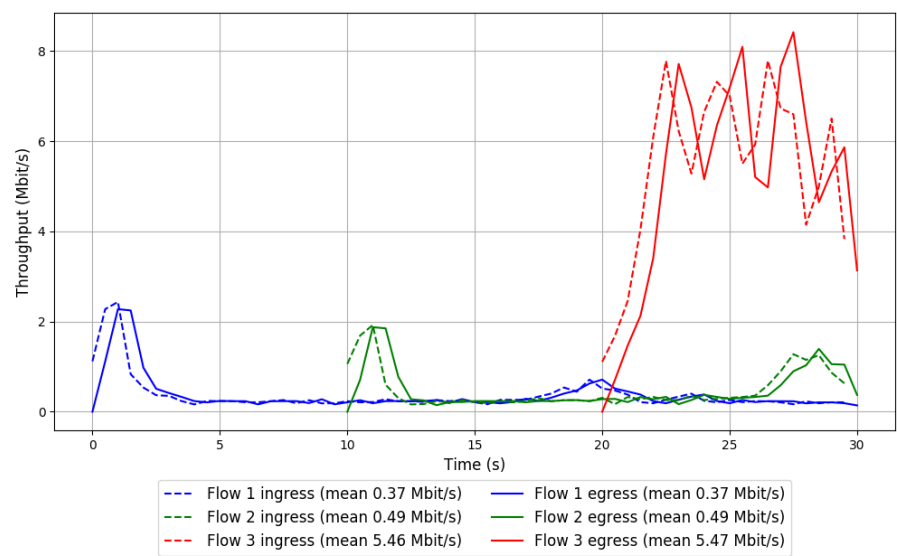


Run 1: Statistics of Sprout

Start at: 2018-08-11 21:04:19  
End at: 2018-08-11 21:04:49  
Local clock offset: 0.052 ms  
Remote clock offset: -0.111 ms

# Below is generated by plot.py at 2018-08-12 04:28:56  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 2.48 Mbit/s  
95th percentile per-packet one-way delay: 61.791 ms  
Loss rate: 1.14%  
-- Flow 1:  
Average throughput: 0.37 Mbit/s  
95th percentile per-packet one-way delay: 61.779 ms  
Loss rate: 0.42%  
-- Flow 2:  
Average throughput: 0.49 Mbit/s  
95th percentile per-packet one-way delay: 61.522 ms  
Loss rate: 1.43%  
-- Flow 3:  
Average throughput: 5.47 Mbit/s  
95th percentile per-packet one-way delay: 61.817 ms  
Loss rate: 1.24%

Run 1: Report of Sprout — Data Link

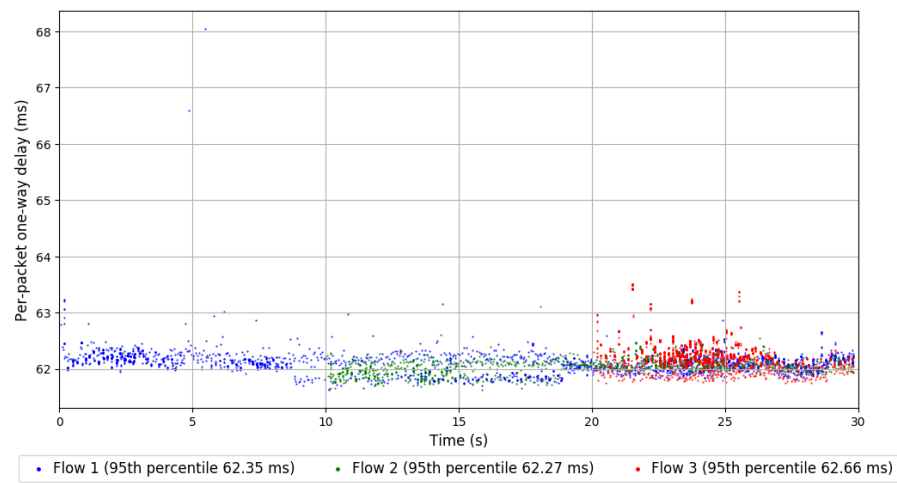
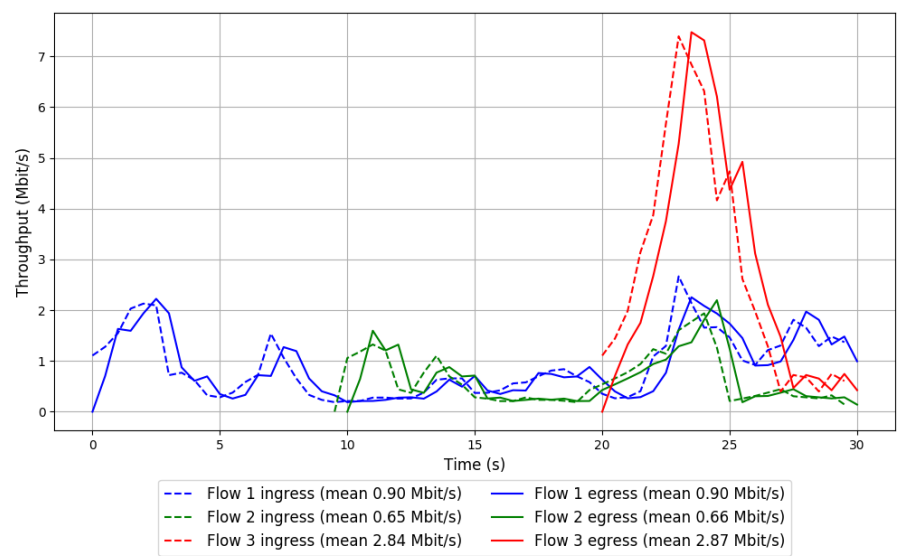


Run 2: Statistics of Sprout

Start at: 2018-08-11 21:30:56  
End at: 2018-08-11 21:31:26  
Local clock offset: 0.01 ms  
Remote clock offset: -0.913 ms

# Below is generated by plot.py at 2018-08-12 04:28:57  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 2.27 Mbit/s  
95th percentile per-packet one-way delay: 62.487 ms  
Loss rate: 0.45%  
-- Flow 1:  
Average throughput: 0.90 Mbit/s  
95th percentile per-packet one-way delay: 62.347 ms  
Loss rate: 0.70%  
-- Flow 2:  
Average throughput: 0.66 Mbit/s  
95th percentile per-packet one-way delay: 62.274 ms  
Loss rate: 0.17%  
-- Flow 3:  
Average throughput: 2.87 Mbit/s  
95th percentile per-packet one-way delay: 62.659 ms  
Loss rate: 0.33%

Run 2: Report of Sprout — Data Link



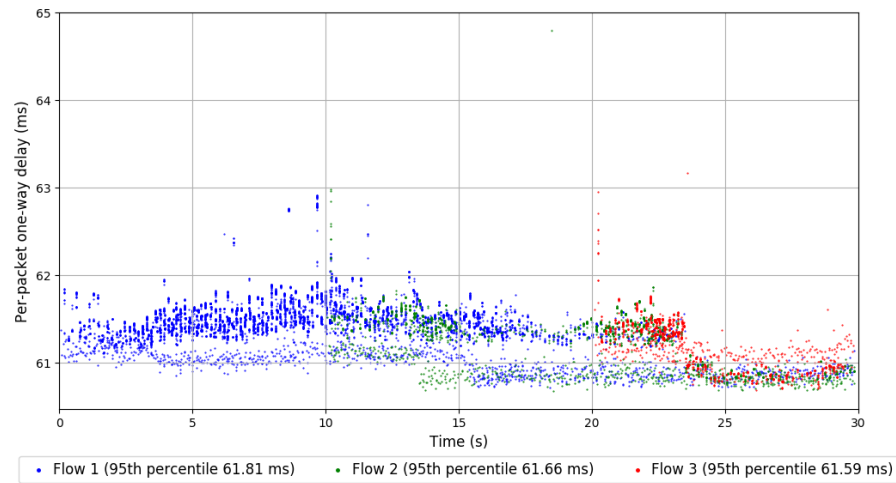
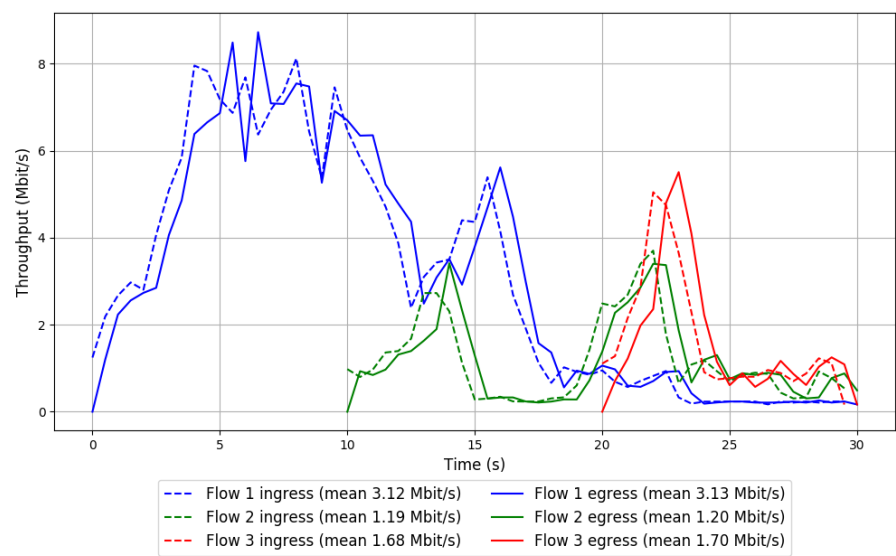
### Run 3: Statistics of Sprout

Start at: 2018-08-11 21:57:41  
End at: 2018-08-11 21:58:11  
Local clock offset: -0.083 ms  
Remote clock offset: -0.026 ms

```
# Below is generated by plot.py at 2018-08-12 04:28:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.48 Mbit/s
95th percentile per-packet one-way delay: 61.775 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 3.13 Mbit/s
95th percentile per-packet one-way delay: 61.809 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 1.20 Mbit/s
95th percentile per-packet one-way delay: 61.655 ms
Loss rate: 0.20%
-- Flow 3:
Average throughput: 1.70 Mbit/s
95th percentile per-packet one-way delay: 61.591 ms
Loss rate: 0.14%
```



Run 3: Report of Sprout — Data Link

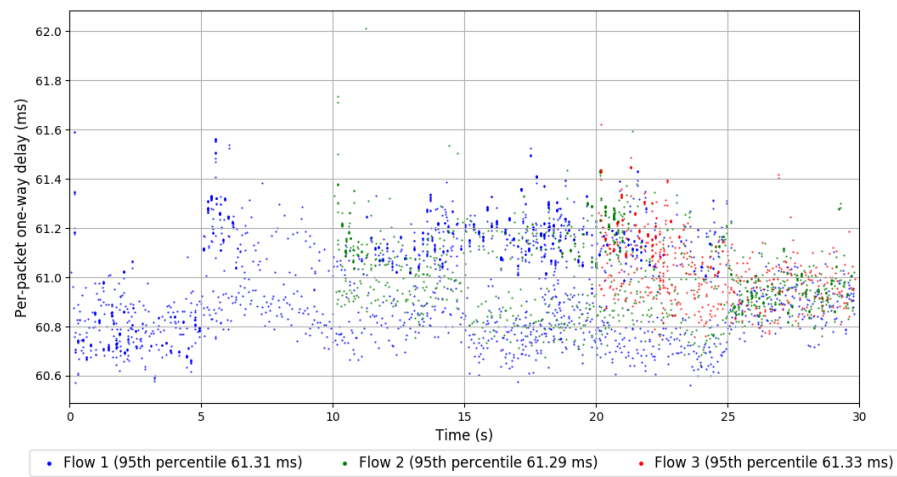
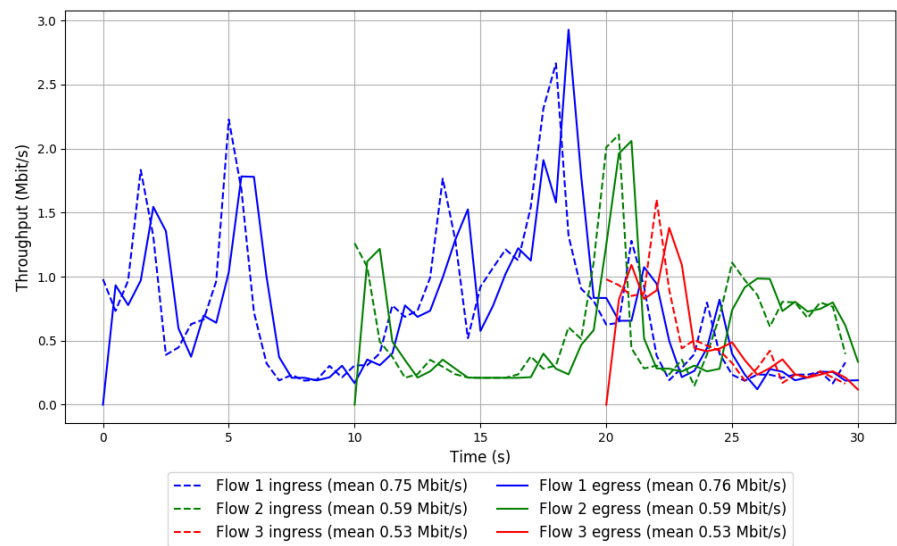


#### Run 4: Statistics of Sprout

Start at: 2018-08-11 22:24:40  
End at: 2018-08-11 22:25:10  
Local clock offset: -0.025 ms  
Remote clock offset: 0.264 ms

```
# Below is generated by plot.py at 2018-08-12 04:28:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.32 Mbit/s
95th percentile per-packet one-way delay: 61.308 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 0.76 Mbit/s
95th percentile per-packet one-way delay: 61.314 ms
Loss rate: 0.31%
-- Flow 2:
Average throughput: 0.59 Mbit/s
95th percentile per-packet one-way delay: 61.289 ms
Loss rate: 0.89%
-- Flow 3:
Average throughput: 0.53 Mbit/s
95th percentile per-packet one-way delay: 61.332 ms
Loss rate: 0.45%
```

Run 4: Report of Sprout — Data Link

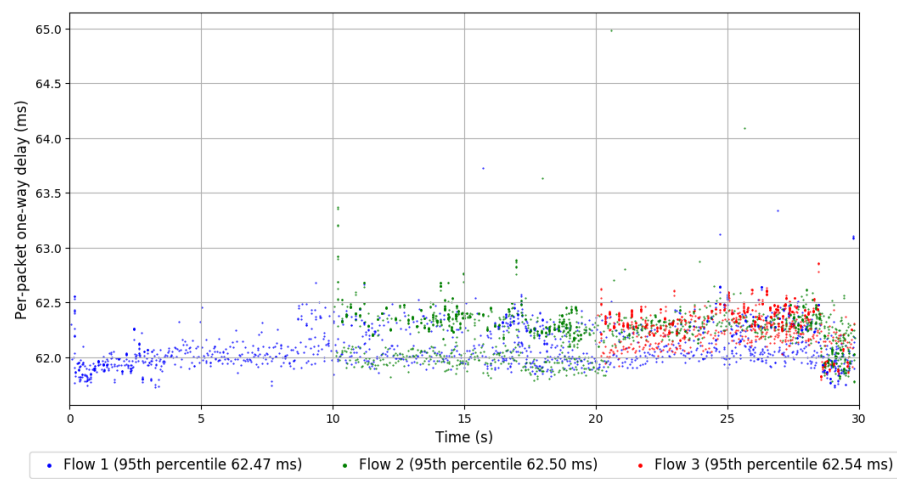
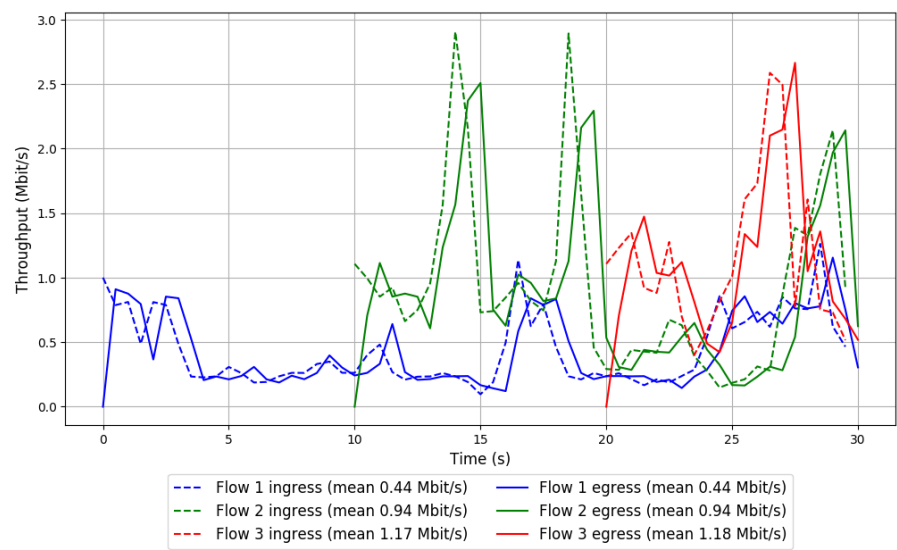


Run 5: Statistics of Sprout

Start at: 2018-08-11 22:51:36  
End at: 2018-08-11 22:52:06  
Local clock offset: -0.02 ms  
Remote clock offset: -0.908 ms

# Below is generated by plot.py at 2018-08-12 04:28:57  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1.44 Mbit/s  
95th percentile per-packet one-way delay: 62.493 ms  
Loss rate: 0.83%  
-- Flow 1:  
Average throughput: 0.44 Mbit/s  
95th percentile per-packet one-way delay: 62.471 ms  
Loss rate: 0.70%  
-- Flow 2:  
Average throughput: 0.94 Mbit/s  
95th percentile per-packet one-way delay: 62.502 ms  
Loss rate: 0.80%  
-- Flow 3:  
Average throughput: 1.18 Mbit/s  
95th percentile per-packet one-way delay: 62.539 ms  
Loss rate: 1.00%

Run 5: Report of Sprout — Data Link

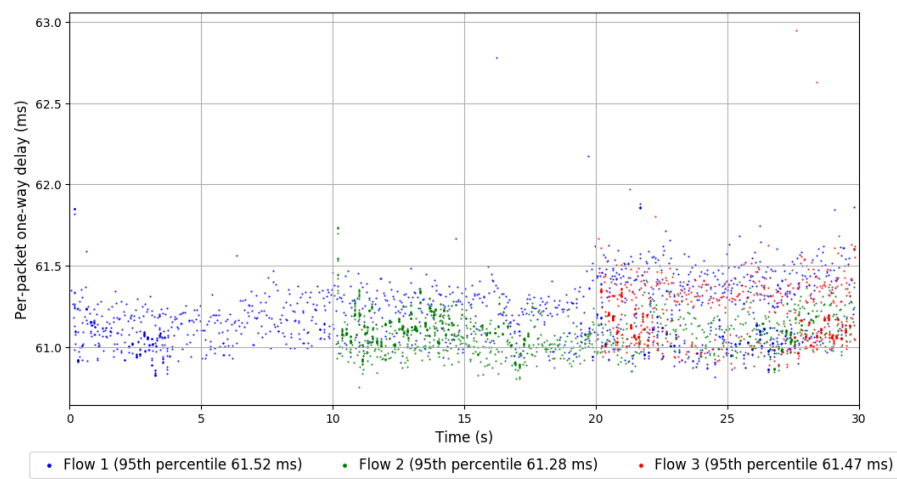
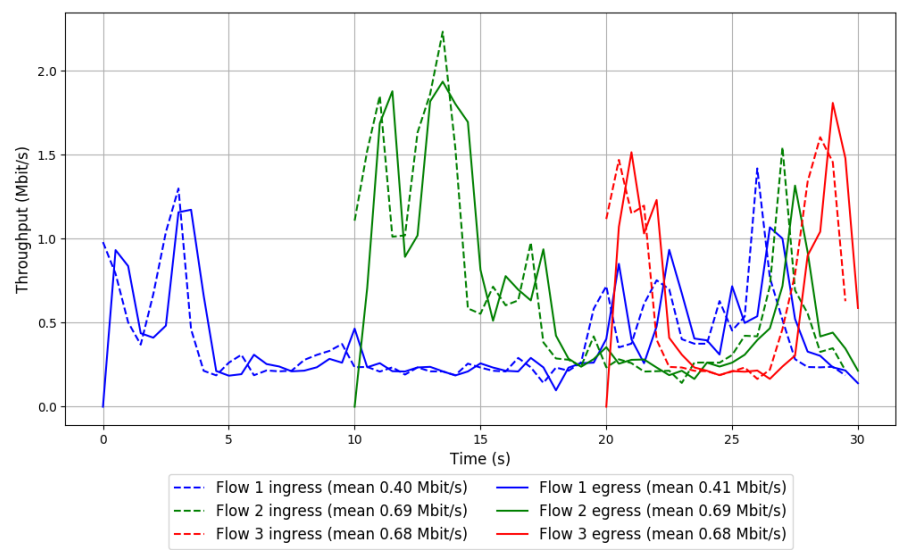


Run 6: Statistics of Sprout

Start at: 2018-08-11 23:18:35  
End at: 2018-08-11 23:19:05  
Local clock offset: -0.074 ms  
Remote clock offset: -0.024 ms

# Below is generated by plot.py at 2018-08-12 04:28:57  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1.09 Mbit/s  
95th percentile per-packet one-way delay: 61.461 ms  
Loss rate: 0.40%  
-- Flow 1:  
Average throughput: 0.41 Mbit/s  
95th percentile per-packet one-way delay: 61.516 ms  
Loss rate: 0.29%  
-- Flow 2:  
Average throughput: 0.69 Mbit/s  
95th percentile per-packet one-way delay: 61.277 ms  
Loss rate: 0.10%  
-- Flow 3:  
Average throughput: 0.68 Mbit/s  
95th percentile per-packet one-way delay: 61.472 ms  
Loss rate: 1.18%

Run 6: Report of Sprout — Data Link



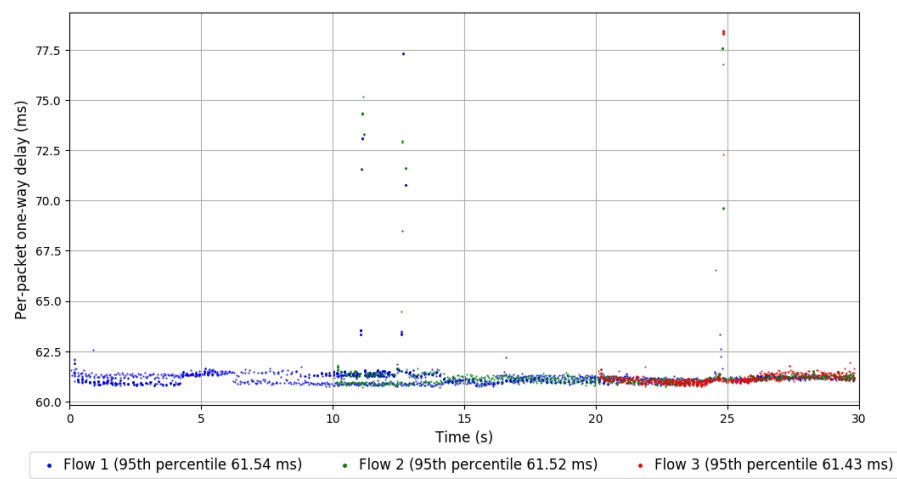
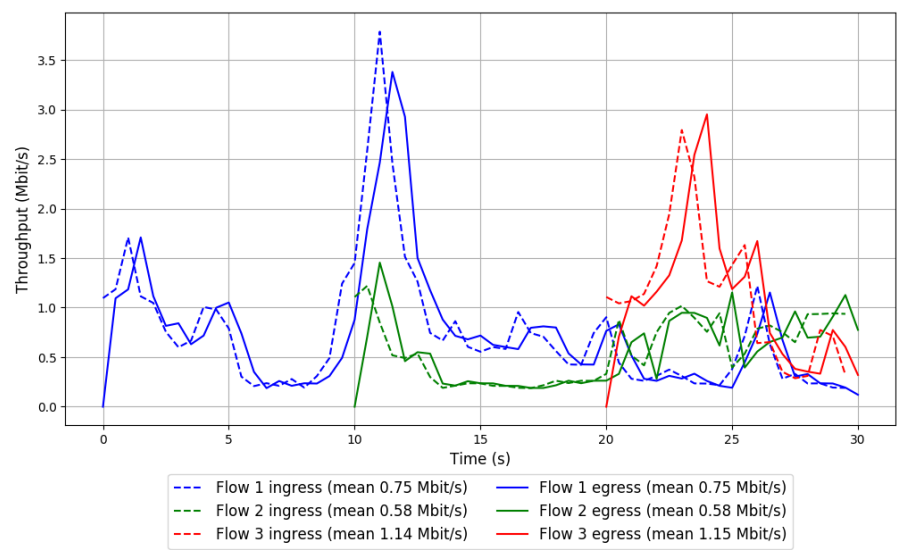
Run 7: Statistics of Sprout

Start at: 2018-08-11 23:45:21  
End at: 2018-08-11 23:45:51  
Local clock offset: -0.026 ms  
Remote clock offset: 0.108 ms

# Below is generated by plot.py at 2018-08-12 04:28:57  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1.51 Mbit/s  
95th percentile per-packet one-way delay: 61.526 ms  
Loss rate: 0.47%  
-- Flow 1:  
Average throughput: 0.75 Mbit/s  
95th percentile per-packet one-way delay: 61.541 ms  
Loss rate: 0.16%  
-- Flow 2:  
Average throughput: 0.58 Mbit/s  
95th percentile per-packet one-way delay: 61.519 ms  
Loss rate: 1.01%  
-- Flow 3:  
Average throughput: 1.15 Mbit/s  
95th percentile per-packet one-way delay: 61.431 ms  
Loss rate: 0.51%



Run 7: Report of Sprout — Data Link

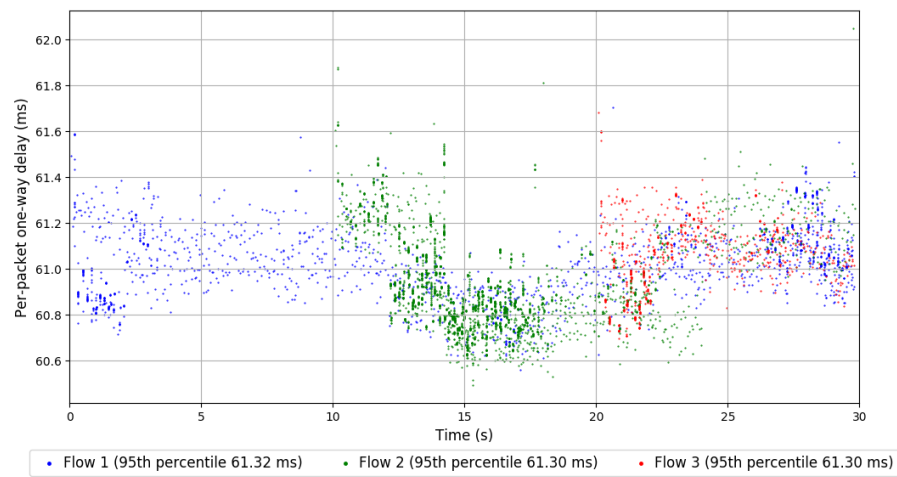
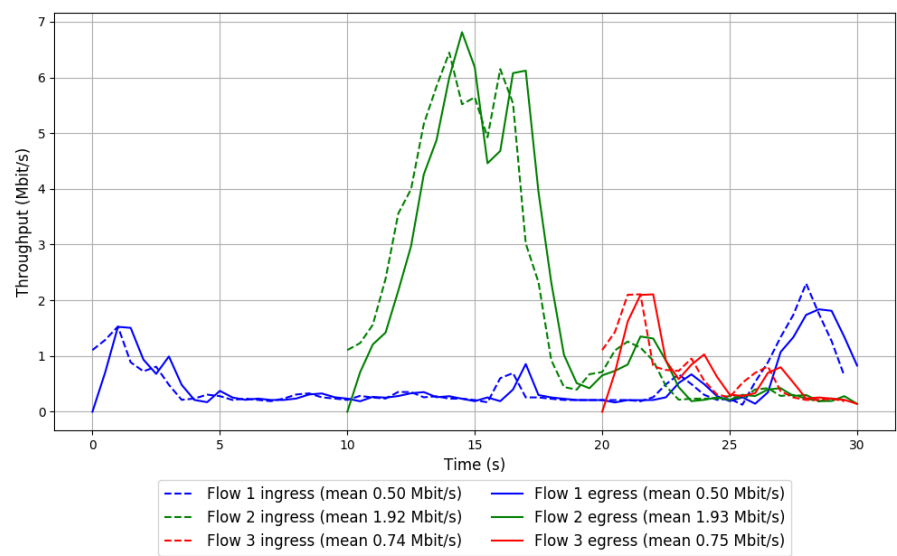


Run 8: Statistics of Sprout

Start at: 2018-08-12 00:12:13  
End at: 2018-08-12 00:12:43  
Local clock offset: -0.029 ms  
Remote clock offset: 0.267 ms

```
# Below is generated by plot.py at 2018-08-12 04:28:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 2.02 Mbit/s
95th percentile per-packet one-way delay: 61.309 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 0.50 Mbit/s
95th percentile per-packet one-way delay: 61.318 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 1.93 Mbit/s
95th percentile per-packet one-way delay: 61.303 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 0.75 Mbit/s
95th percentile per-packet one-way delay: 61.303 ms
Loss rate: 0.48%
```

Run 8: Report of Sprout — Data Link

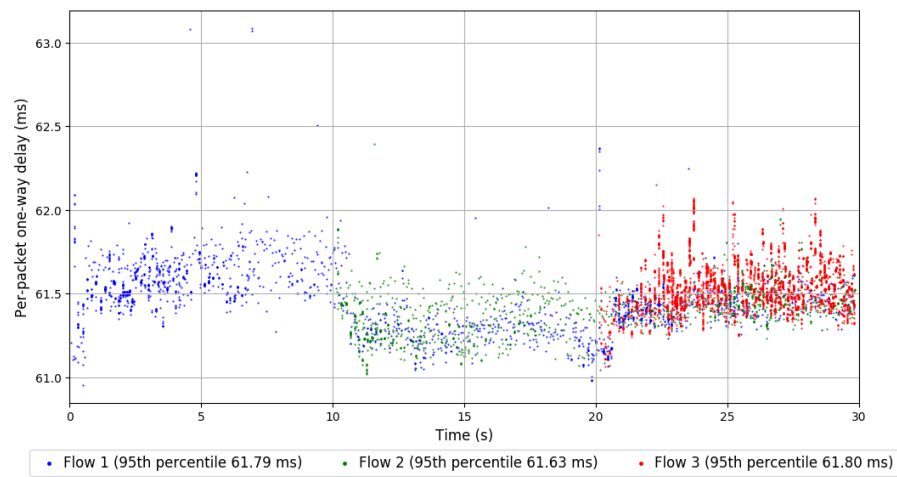
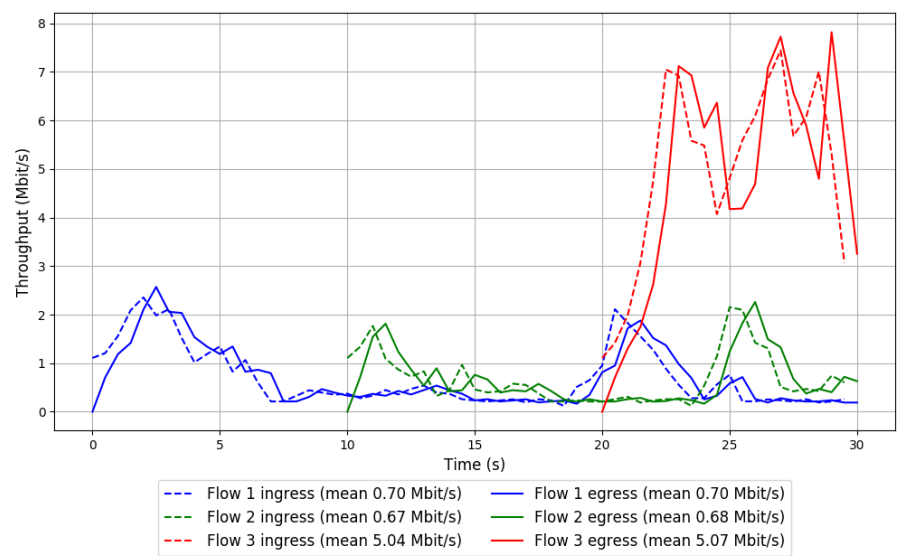


Run 9: Statistics of Sprout

Start at: 2018-08-12 00:38:54  
End at: 2018-08-12 00:39:24  
Local clock offset: -0.091 ms  
Remote clock offset: -0.296 ms

```
# Below is generated by plot.py at 2018-08-12 04:28:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 2.81 Mbit/s
95th percentile per-packet one-way delay: 61.791 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 0.70 Mbit/s
95th percentile per-packet one-way delay: 61.793 ms
Loss rate: 0.22%
-- Flow 2:
Average throughput: 0.68 Mbit/s
95th percentile per-packet one-way delay: 61.631 ms
Loss rate: 0.26%
-- Flow 3:
Average throughput: 5.07 Mbit/s
95th percentile per-packet one-way delay: 61.805 ms
Loss rate: 0.69%
```

Run 9: Report of Sprout — Data Link

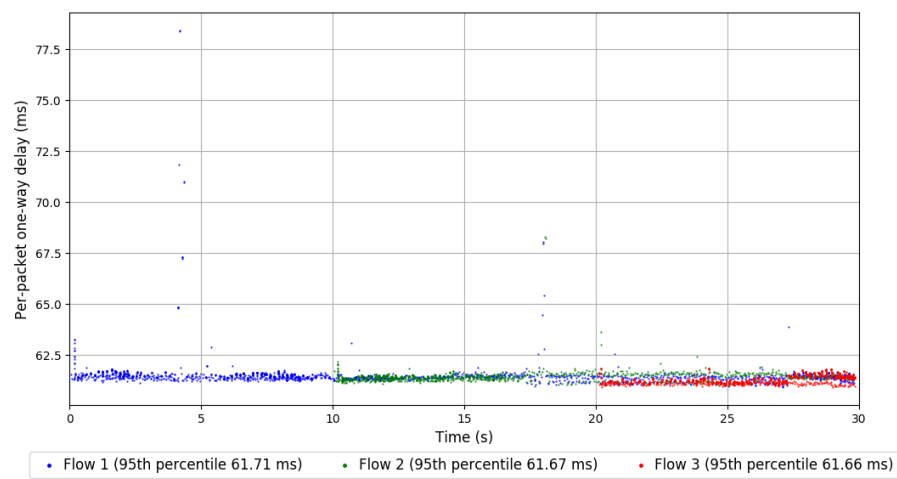
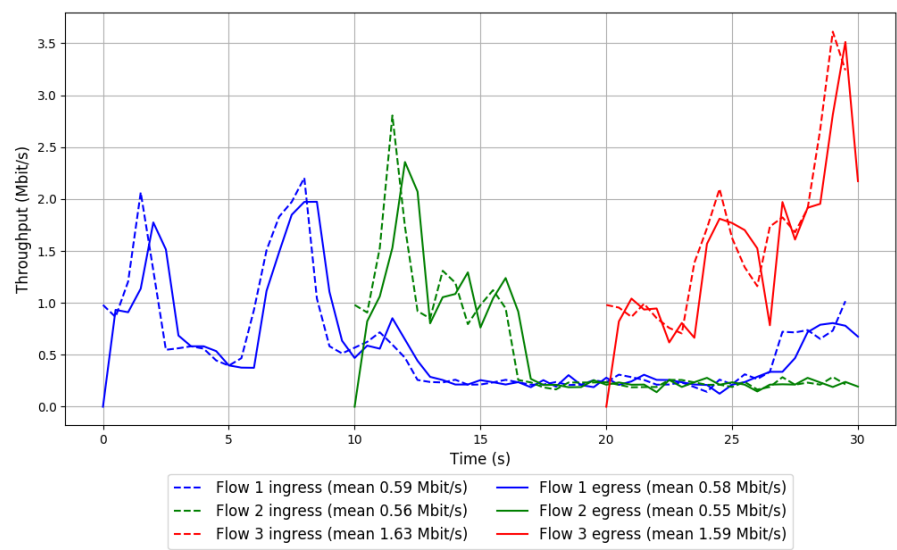


Run 10: Statistics of Sprout

Start at: 2018-08-12 01:05:27  
End at: 2018-08-12 01:05:57  
Local clock offset: -0.045 ms  
Remote clock offset: -0.17 ms

# Below is generated by plot.py at 2018-08-12 04:28:57  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1.47 Mbit/s  
95th percentile per-packet one-way delay: 61.689 ms  
Loss rate: 1.82%  
-- Flow 1:  
Average throughput: 0.58 Mbit/s  
95th percentile per-packet one-way delay: 61.711 ms  
Loss rate: 0.98%  
-- Flow 2:  
Average throughput: 0.55 Mbit/s  
95th percentile per-packet one-way delay: 61.670 ms  
Loss rate: 0.53%  
-- Flow 3:  
Average throughput: 1.59 Mbit/s  
95th percentile per-packet one-way delay: 61.665 ms  
Loss rate: 3.64%

Run 10: Report of Sprout — Data Link



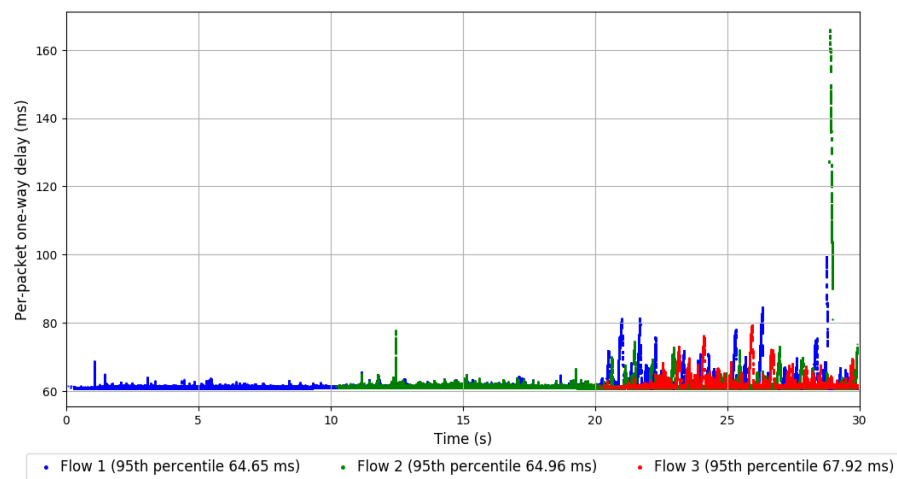
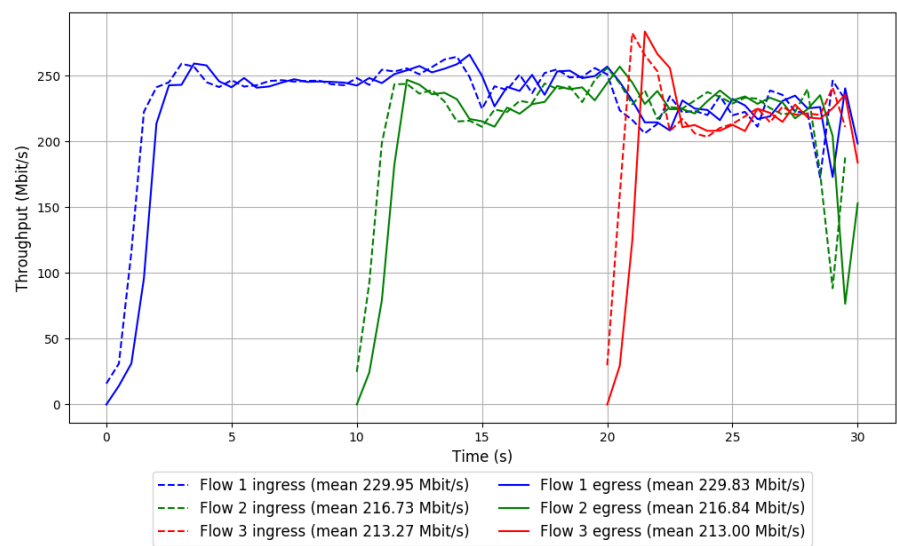
```
Run 1: Statistics of TaoVA-100x

Start at: 2018-08-11 20:52:15
End at: 2018-08-11 20:52:45
Local clock offset: 0.1 ms
Remote clock offset: -0.185 ms

# Below is generated by plot.py at 2018-08-12 04:37:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 444.18 Mbit/s
95th percentile per-packet one-way delay: 65.601 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 229.83 Mbit/s
95th percentile per-packet one-way delay: 64.649 ms
Loss rate: 0.46%
-- Flow 2:
Average throughput: 216.84 Mbit/s
95th percentile per-packet one-way delay: 64.958 ms
Loss rate: 0.56%
-- Flow 3:
Average throughput: 213.00 Mbit/s
95th percentile per-packet one-way delay: 67.921 ms
Loss rate: 1.37%
```



Run 1: Report of TaoVA-100x — Data Link



Run 2: Statistics of TaoVA-100x

Start at: 2018-08-11 21:18:52

End at: 2018-08-11 21:19:22

Local clock offset: 0.069 ms

Remote clock offset: 0.583 ms

# Below is generated by plot.py at 2018-08-12 04:37:38

# Datalink statistics

-- Total of 3 flows:

Average throughput: 452.91 Mbit/s

95th percentile per-packet one-way delay: 62.759 ms

Loss rate: 0.62%

-- Flow 1:

Average throughput: 234.84 Mbit/s

95th percentile per-packet one-way delay: 62.115 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 220.17 Mbit/s

95th percentile per-packet one-way delay: 63.233 ms

Loss rate: 0.59%

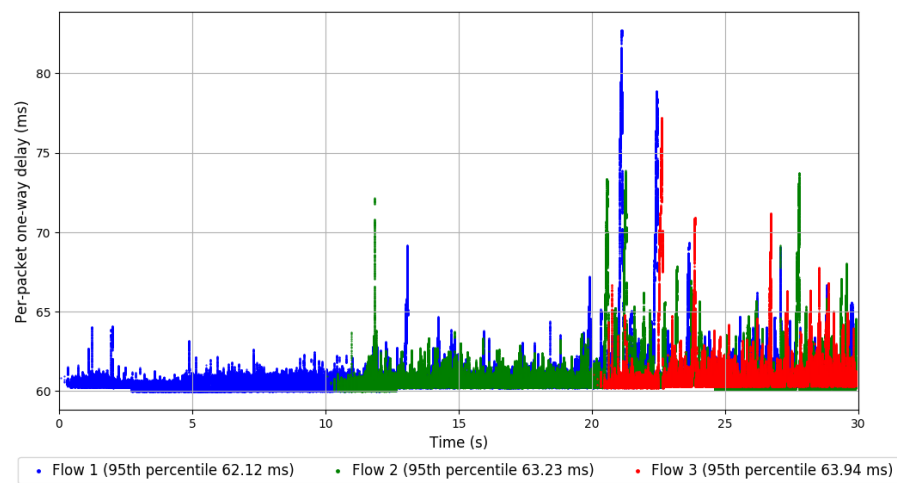
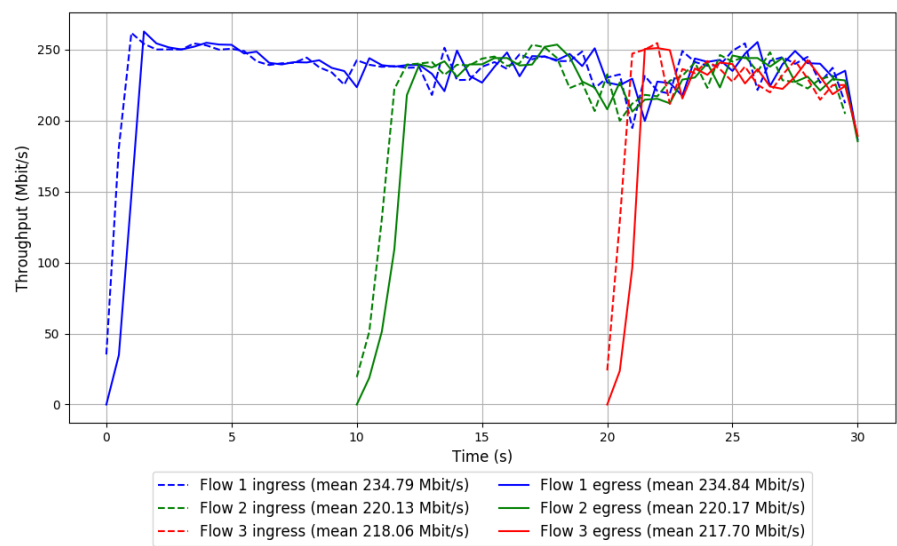
-- Flow 3:

Average throughput: 217.70 Mbit/s

95th percentile per-packet one-way delay: 63.938 ms

Loss rate: 1.42%

Run 2: Report of TaoVA-100x — Data Link



Run 3: Statistics of TaoVA-100x

Start at: 2018-08-11 21:45:39

End at: 2018-08-11 21:46:09

Local clock offset: -0.13 ms

Remote clock offset: -1.32 ms

# Below is generated by plot.py at 2018-08-12 04:37:38

# Datalink statistics

-- Total of 3 flows:

Average throughput: 432.18 Mbit/s

95th percentile per-packet one-way delay: 67.931 ms

Loss rate: 0.62%

-- Flow 1:

Average throughput: 219.21 Mbit/s

95th percentile per-packet one-way delay: 66.648 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 210.01 Mbit/s

95th percentile per-packet one-way delay: 69.265 ms

Loss rate: 0.72%

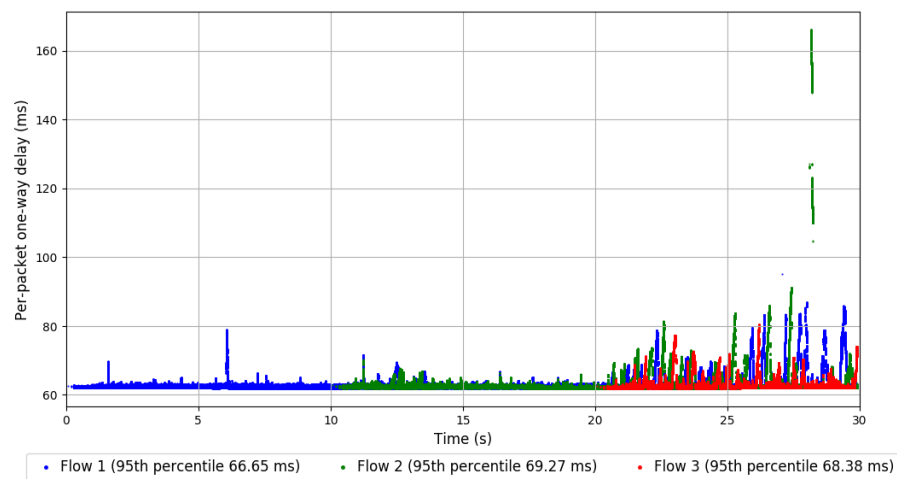
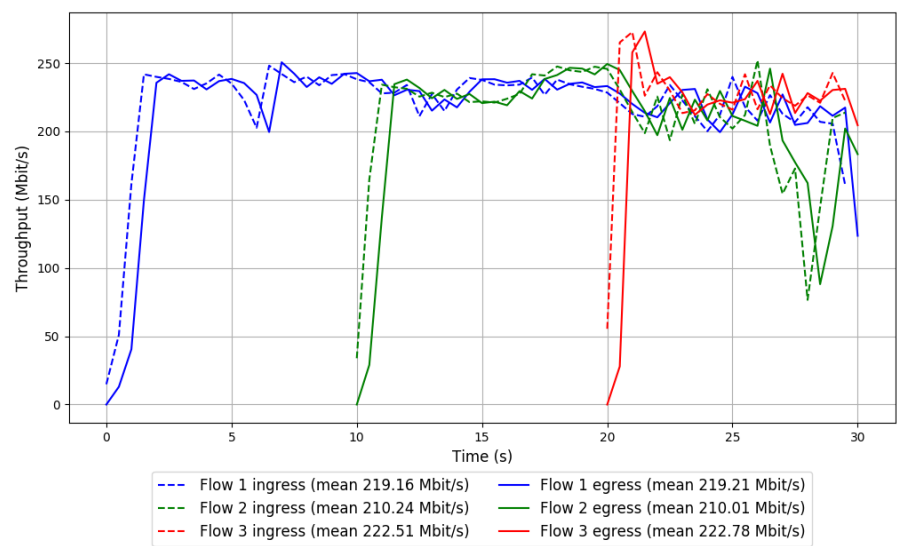
-- Flow 3:

Average throughput: 222.78 Mbit/s

95th percentile per-packet one-way delay: 68.382 ms

Loss rate: 1.12%

Run 3: Report of TaoVA-100x — Data Link

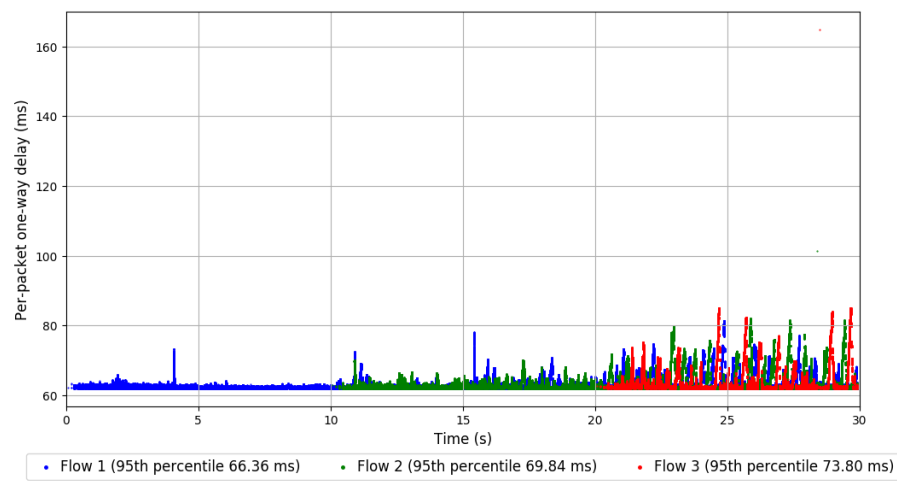
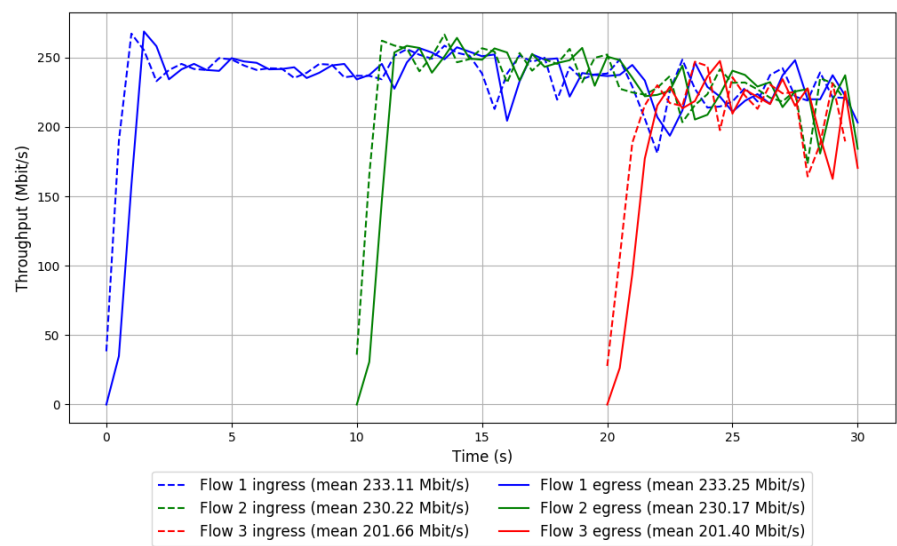


Run 4: Statistics of TaoVA-100x

Start at: 2018-08-11 22:12:30  
End at: 2018-08-11 22:13:00  
Local clock offset: -0.073 ms  
Remote clock offset: -1.409 ms

# Below is generated by plot.py at 2018-08-12 04:38:01  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 452.59 Mbit/s  
95th percentile per-packet one-way delay: 68.878 ms  
Loss rate: 0.58%  
-- Flow 1:  
Average throughput: 233.25 Mbit/s  
95th percentile per-packet one-way delay: 66.363 ms  
Loss rate: 0.35%  
-- Flow 2:  
Average throughput: 230.17 Mbit/s  
95th percentile per-packet one-way delay: 69.836 ms  
Loss rate: 0.64%  
-- Flow 3:  
Average throughput: 201.40 Mbit/s  
95th percentile per-packet one-way delay: 73.804 ms  
Loss rate: 1.28%

Run 4: Report of TaoVA-100x — Data Link



Run 5: Statistics of TaoVA-100x

Start at: 2018-08-11 22:39:30

End at: 2018-08-11 22:40:00

Local clock offset: 0.031 ms

Remote clock offset: 0.618 ms

# Below is generated by plot.py at 2018-08-12 04:38:22

# Datalink statistics

-- Total of 3 flows:

Average throughput: 447.44 Mbit/s

95th percentile per-packet one-way delay: 62.786 ms

Loss rate: 0.75%

-- Flow 1:

Average throughput: 231.37 Mbit/s

95th percentile per-packet one-way delay: 62.117 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 225.97 Mbit/s

95th percentile per-packet one-way delay: 63.168 ms

Loss rate: 0.66%

-- Flow 3:

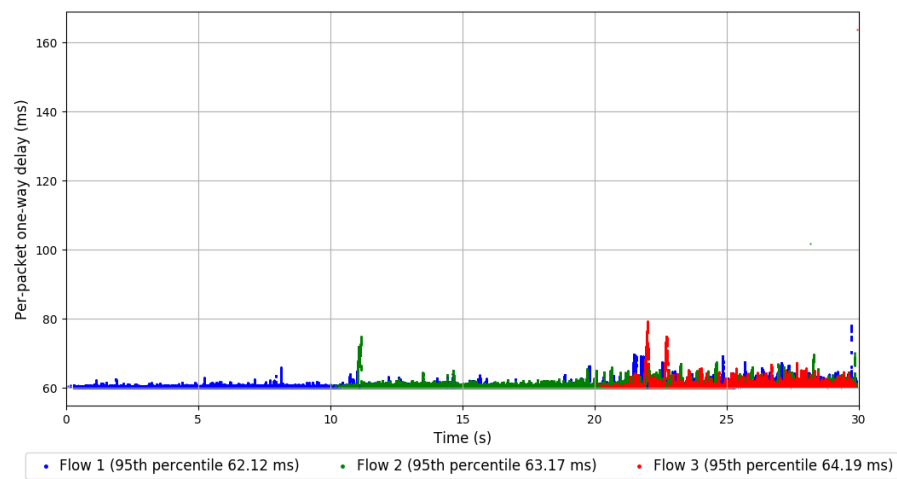
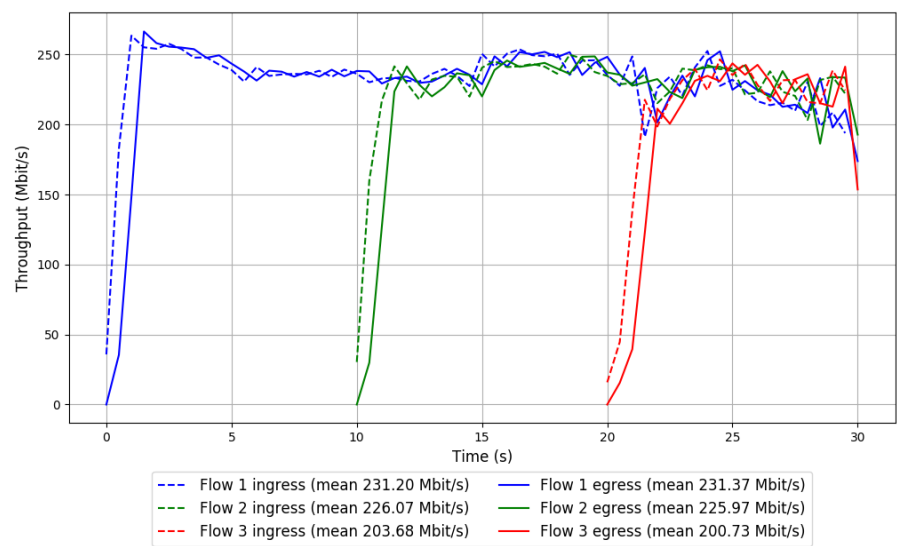
Average throughput: 200.73 Mbit/s

95th percentile per-packet one-way delay: 64.186 ms

Loss rate: 2.37%



Run 5: Report of TaoVA-100x — Data Link

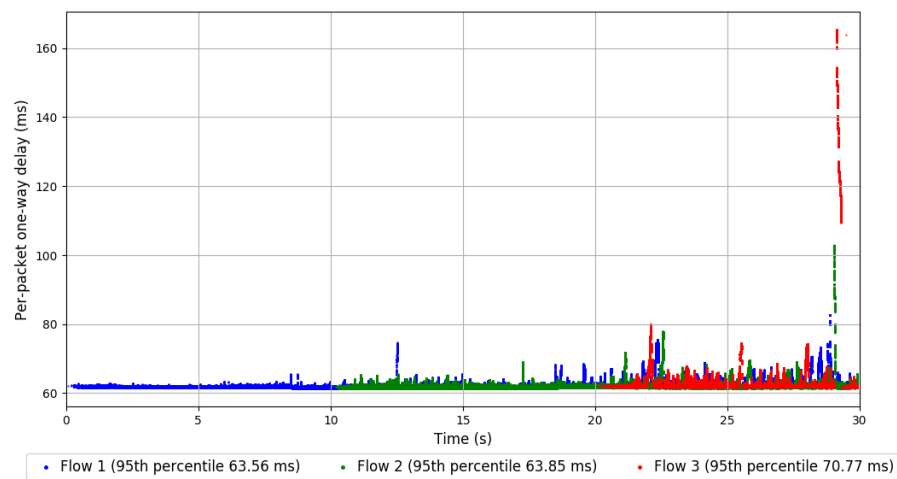
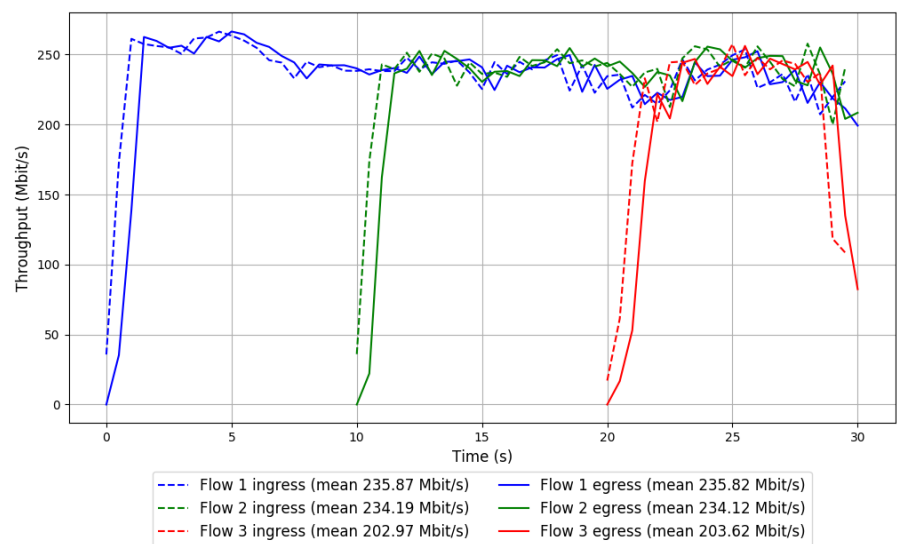


Run 6: Statistics of TaoVA-100x

Start at: 2018-08-11 23:06:26  
End at: 2018-08-11 23:06:56  
Local clock offset: -0.063 ms  
Remote clock offset: -0.706 ms

# Below is generated by plot.py at 2018-08-12 04:41:50  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 458.56 Mbit/s  
95th percentile per-packet one-way delay: 64.441 ms  
Loss rate: 0.58%  
-- Flow 1:  
Average throughput: 235.82 Mbit/s  
95th percentile per-packet one-way delay: 63.562 ms  
Loss rate: 0.43%  
-- Flow 2:  
Average throughput: 234.12 Mbit/s  
95th percentile per-packet one-way delay: 63.851 ms  
Loss rate: 0.64%  
-- Flow 3:  
Average throughput: 203.62 Mbit/s  
95th percentile per-packet one-way delay: 70.767 ms  
Loss rate: 0.92%

Run 6: Report of TaoVA-100x — Data Link

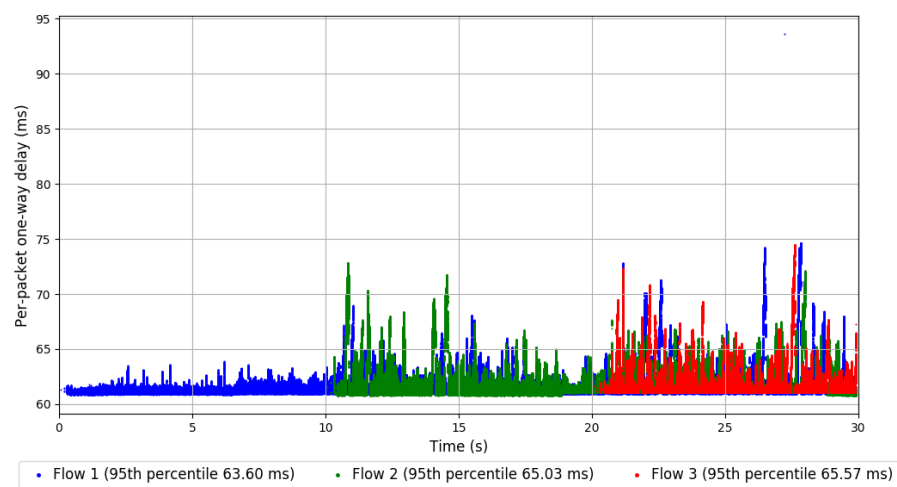
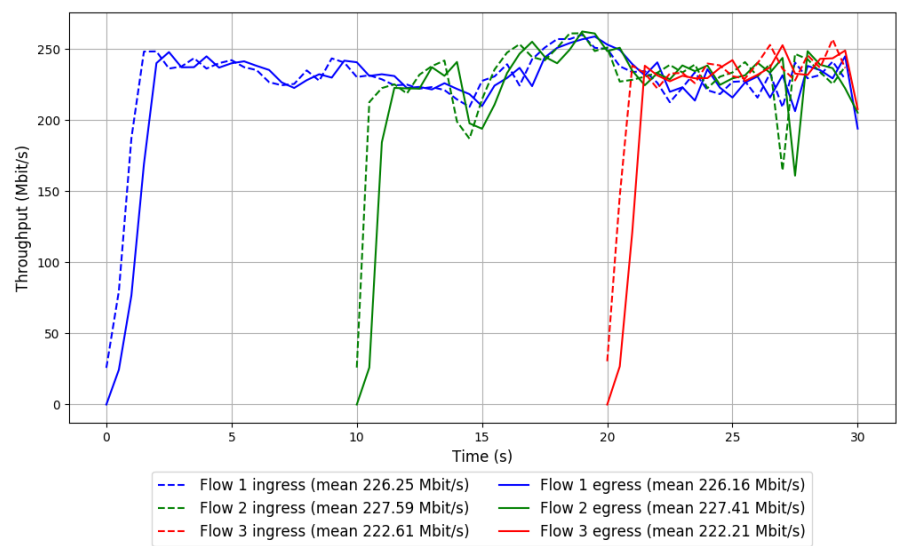


Run 7: Statistics of TaoVA-100x

Start at: 2018-08-11 23:33:18  
End at: 2018-08-11 23:33:48  
Local clock offset: 0.012 ms  
Remote clock offset: -0.044 ms

# Below is generated by plot.py at 2018-08-12 04:44:55  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 450.53 Mbit/s  
95th percentile per-packet one-way delay: 64.578 ms  
Loss rate: 0.69%  
-- Flow 1:  
Average throughput: 226.16 Mbit/s  
95th percentile per-packet one-way delay: 63.598 ms  
Loss rate: 0.45%  
-- Flow 2:  
Average throughput: 227.41 Mbit/s  
95th percentile per-packet one-way delay: 65.027 ms  
Loss rate: 0.69%  
-- Flow 3:  
Average throughput: 222.21 Mbit/s  
95th percentile per-packet one-way delay: 65.571 ms  
Loss rate: 1.41%

Run 7: Report of TaoVA-100x — Data Link

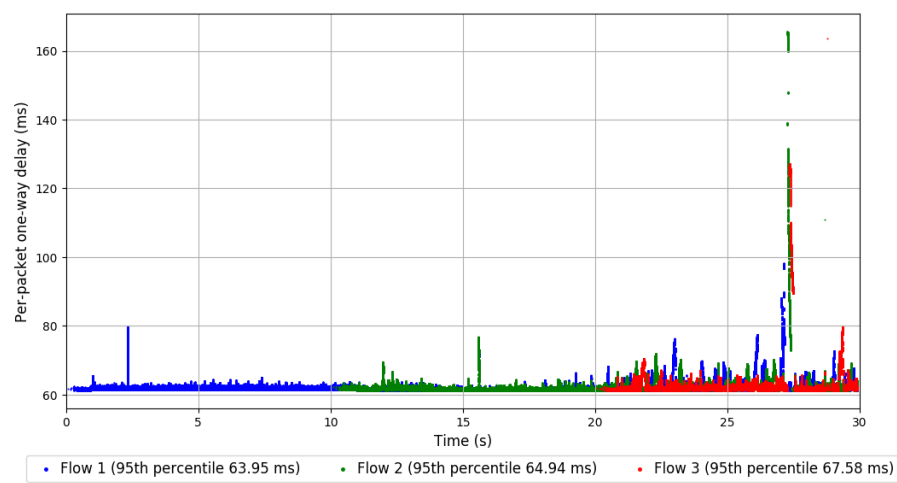
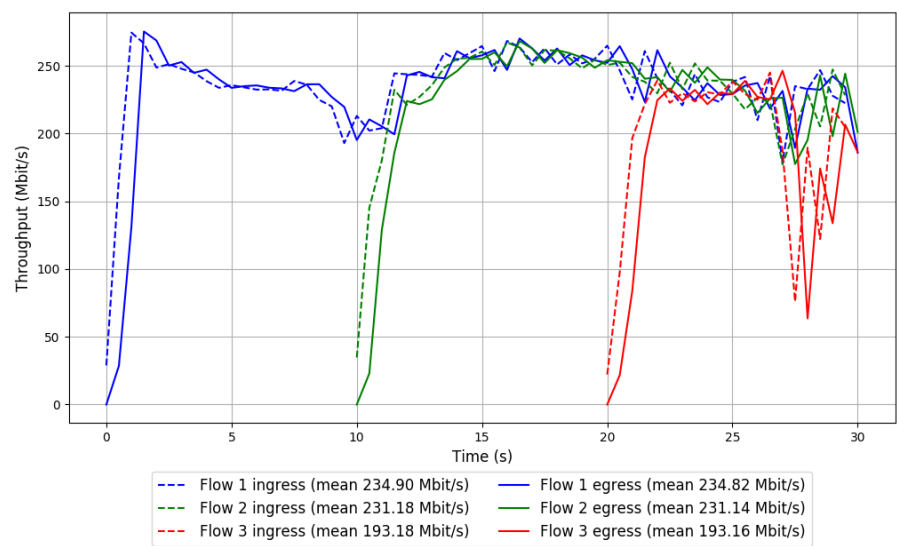


Run 8: Statistics of TaoVA-100x

Start at: 2018-08-12 00:00:04  
End at: 2018-08-12 00:00:34  
Local clock offset: -0.049 ms  
Remote clock offset: -0.499 ms

# Below is generated by plot.py at 2018-08-12 04:45:09  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 451.99 Mbit/s  
95th percentile per-packet one-way delay: 64.740 ms  
Loss rate: 0.62%  
-- Flow 1:  
Average throughput: 234.82 Mbit/s  
95th percentile per-packet one-way delay: 63.953 ms  
Loss rate: 0.44%  
-- Flow 2:  
Average throughput: 231.14 Mbit/s  
95th percentile per-packet one-way delay: 64.943 ms  
Loss rate: 0.64%  
-- Flow 3:  
Average throughput: 193.16 Mbit/s  
95th percentile per-packet one-way delay: 67.578 ms  
Loss rate: 1.26%

Run 8: Report of TaoVA-100x — Data Link



Run 9: Statistics of TaoVA-100x

Start at: 2018-08-12 00:26:57

End at: 2018-08-12 00:27:27

Local clock offset: -0.107 ms

Remote clock offset: 0.053 ms

# Below is generated by plot.py at 2018-08-12 04:52:35

# Datalink statistics

-- Total of 3 flows:

Average throughput: 439.05 Mbit/s

95th percentile per-packet one-way delay: 63.559 ms

Loss rate: 0.60%

-- Flow 1:

Average throughput: 228.08 Mbit/s

95th percentile per-packet one-way delay: 62.999 ms

Loss rate: 0.44%

-- Flow 2:

Average throughput: 216.97 Mbit/s

95th percentile per-packet one-way delay: 64.571 ms

Loss rate: 0.62%

-- Flow 3:

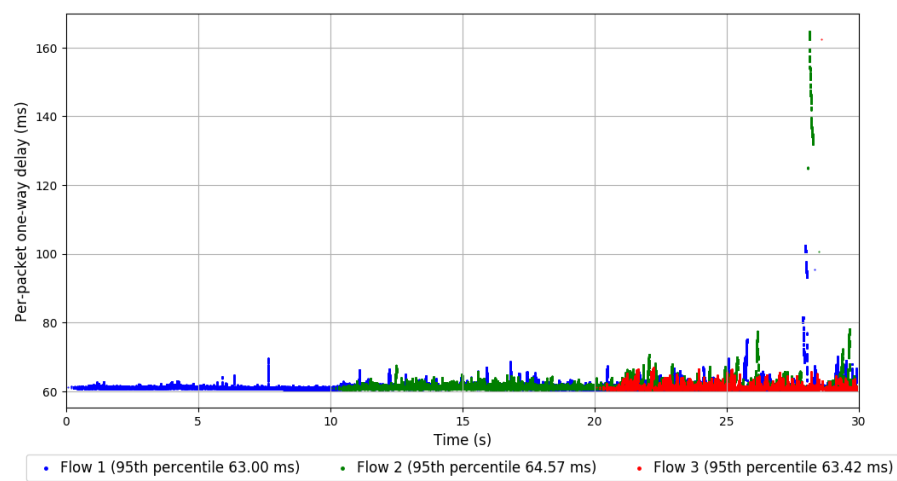
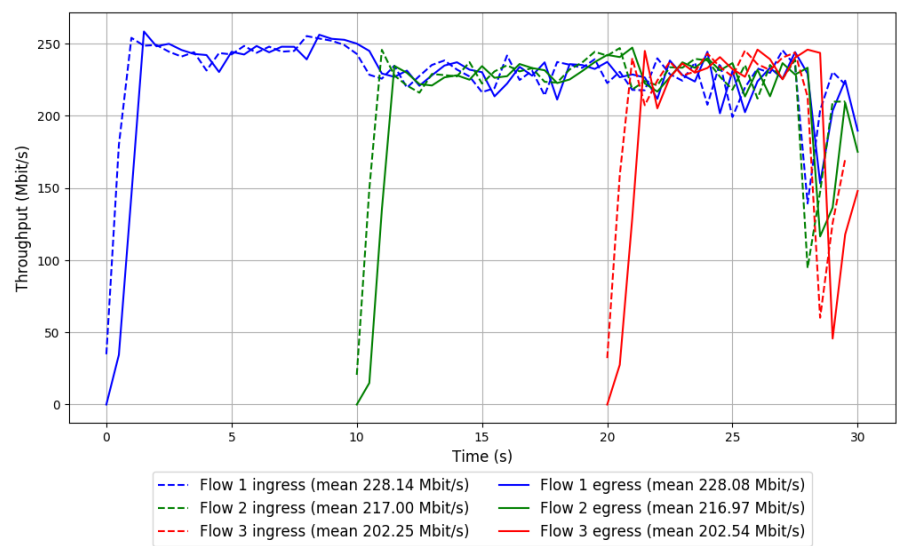
Average throughput: 202.54 Mbit/s

95th percentile per-packet one-way delay: 63.419 ms

Loss rate: 1.10%



Run 9: Report of TaoVA-100x — Data Link



Run 10: Statistics of TaoVA-100x

Start at: 2018-08-12 00:53:30

End at: 2018-08-12 00:54:00

Local clock offset: -0.052 ms

Remote clock offset: 0.327 ms

# Below is generated by plot.py at 2018-08-12 04:52:45

# Datalink statistics

-- Total of 3 flows:

Average throughput: 437.01 Mbit/s

95th percentile per-packet one-way delay: 63.990 ms

Loss rate: 0.62%

-- Flow 1:

Average throughput: 225.72 Mbit/s

95th percentile per-packet one-way delay: 63.309 ms

Loss rate: 0.44%

-- Flow 2:

Average throughput: 218.18 Mbit/s

95th percentile per-packet one-way delay: 63.866 ms

Loss rate: 0.64%

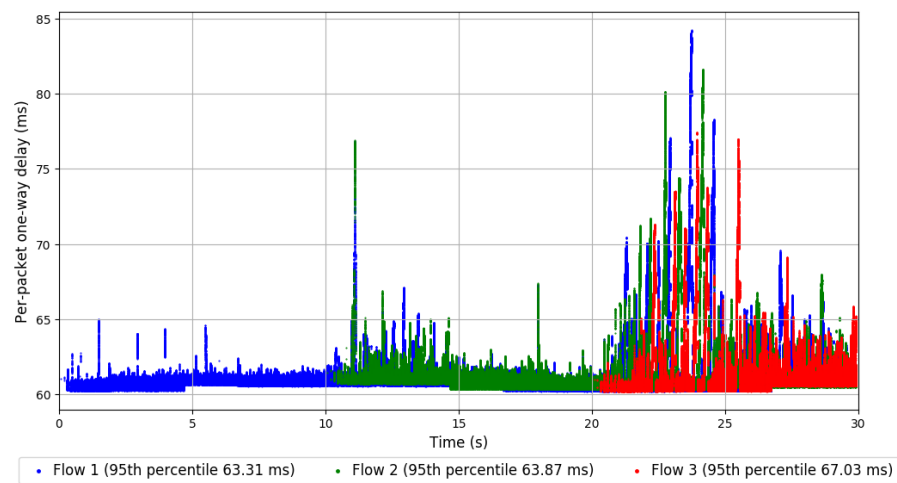
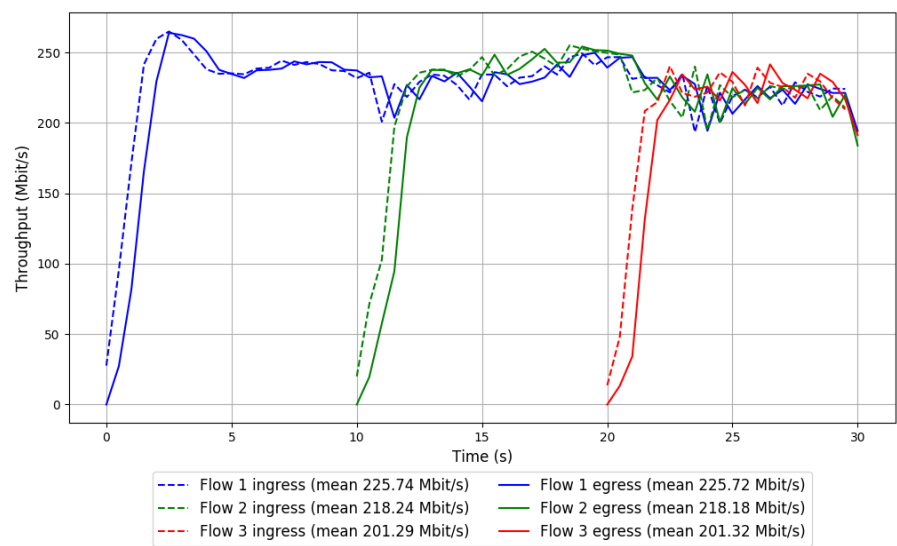
-- Flow 3:

Average throughput: 201.32 Mbit/s

95th percentile per-packet one-way delay: 67.028 ms

Loss rate: 1.19%

Run 10: Report of TaoVA-100x — Data Link

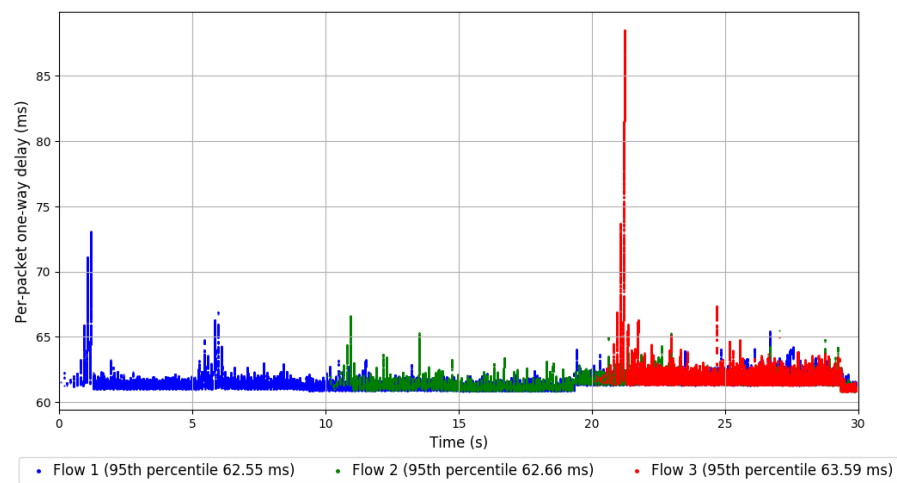
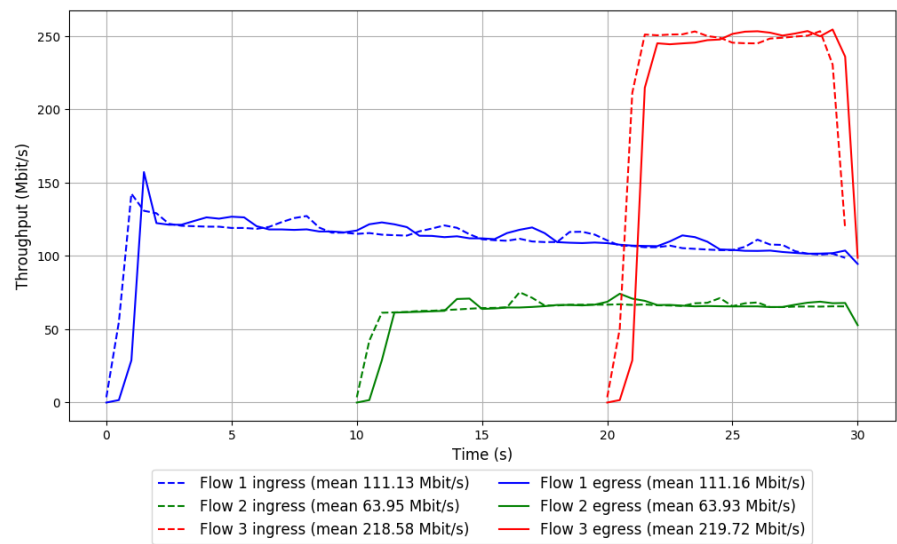


Run 1: Statistics of TCP Vegas

Start at: 2018-08-11 20:59:55  
End at: 2018-08-11 21:00:25  
Local clock offset: 0.037 ms  
Remote clock offset: -0.238 ms

# Below is generated by plot.py at 2018-08-12 04:52:45  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 226.06 Mbit/s  
95th percentile per-packet one-way delay: 62.885 ms  
Loss rate: 0.53%  
-- Flow 1:  
Average throughput: 111.16 Mbit/s  
95th percentile per-packet one-way delay: 62.548 ms  
Loss rate: 0.38%  
-- Flow 2:  
Average throughput: 63.93 Mbit/s  
95th percentile per-packet one-way delay: 62.665 ms  
Loss rate: 0.64%  
-- Flow 3:  
Average throughput: 219.72 Mbit/s  
95th percentile per-packet one-way delay: 63.587 ms  
Loss rate: 0.71%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-08-11 21:26:31

End at: 2018-08-11 21:27:01

Local clock offset: 0.093 ms

Remote clock offset: 0.731 ms

# Below is generated by plot.py at 2018-08-12 04:52:45

# Datalink statistics

-- Total of 3 flows:

Average throughput: 245.91 Mbit/s

95th percentile per-packet one-way delay: 62.533 ms

Loss rate: 0.75%

-- Flow 1:

Average throughput: 131.49 Mbit/s

95th percentile per-packet one-way delay: 61.611 ms

Loss rate: 0.45%

-- Flow 2:

Average throughput: 67.42 Mbit/s

95th percentile per-packet one-way delay: 61.339 ms

Loss rate: 0.70%

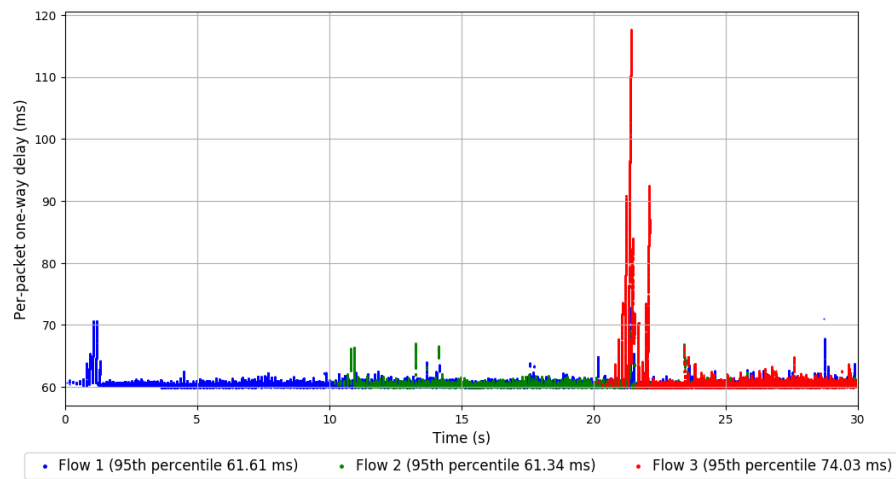
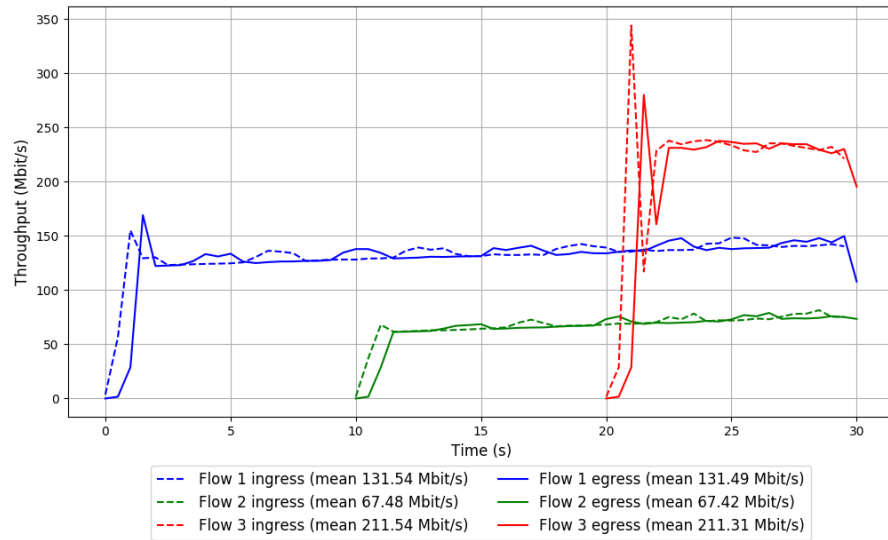
-- Flow 3:

Average throughput: 211.31 Mbit/s

95th percentile per-packet one-way delay: 74.029 ms

Loss rate: 1.34%

## Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-08-11 21:53:20

End at: 2018-08-11 21:53:50

Local clock offset: -0.062 ms

Remote clock offset: 0.618 ms

# Below is generated by plot.py at 2018-08-12 04:52:45

# Datalink statistics

-- Total of 3 flows:

Average throughput: 182.22 Mbit/s

95th percentile per-packet one-way delay: 62.636 ms

Loss rate: 0.89%

-- Flow 1:

Average throughput: 63.29 Mbit/s

95th percentile per-packet one-way delay: 61.738 ms

Loss rate: 0.44%

-- Flow 2:

Average throughput: 66.77 Mbit/s

95th percentile per-packet one-way delay: 62.058 ms

Loss rate: 0.69%

-- Flow 3:

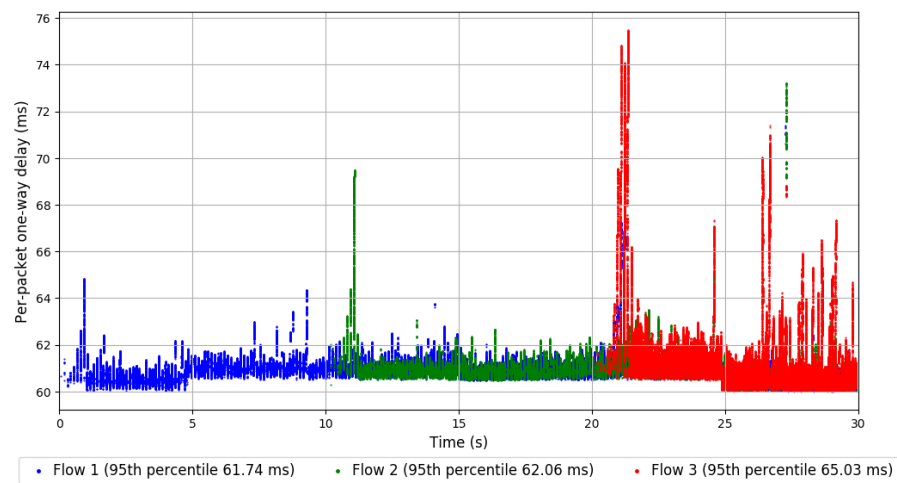
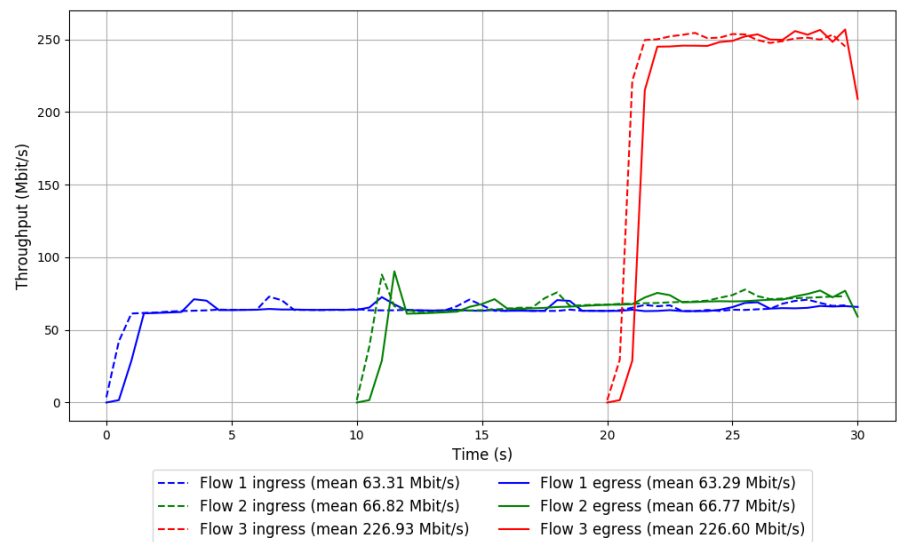
Average throughput: 226.60 Mbit/s

95th percentile per-packet one-way delay: 65.035 ms

Loss rate: 1.38%



Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-08-11 22:20:15

End at: 2018-08-11 22:20:45

Local clock offset: -0.0 ms

Remote clock offset: 0.57 ms

# Below is generated by plot.py at 2018-08-12 04:52:45

# Datalink statistics

-- Total of 3 flows:

Average throughput: 320.99 Mbit/s

95th percentile per-packet one-way delay: 61.981 ms

Loss rate: 0.48%

-- Flow 1:

Average throughput: 246.49 Mbit/s

95th percentile per-packet one-way delay: 62.154 ms

Loss rate: 0.42%

-- Flow 2:

Average throughput: 110.00 Mbit/s

95th percentile per-packet one-way delay: 61.498 ms

Loss rate: 0.63%

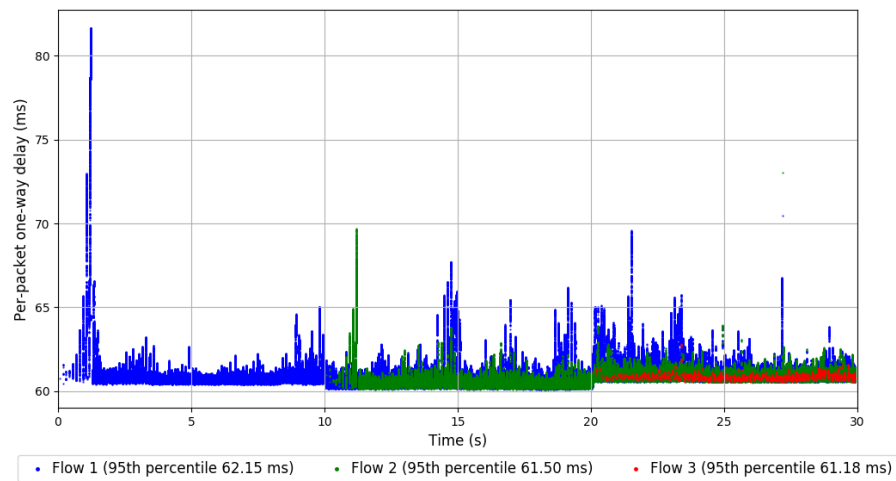
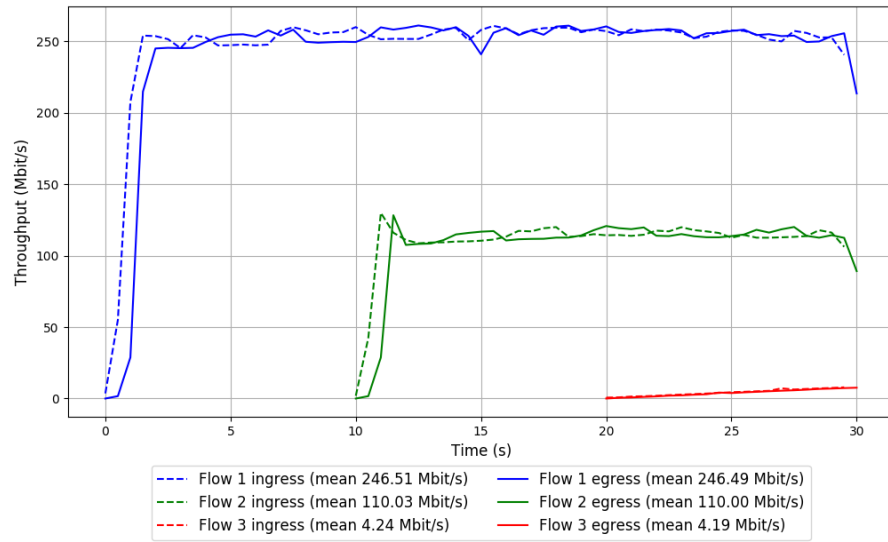
-- Flow 3:

Average throughput: 4.19 Mbit/s

95th percentile per-packet one-way delay: 61.182 ms

Loss rate: 2.53%

#### Run 4: Report of TCP Vegas — Data Link

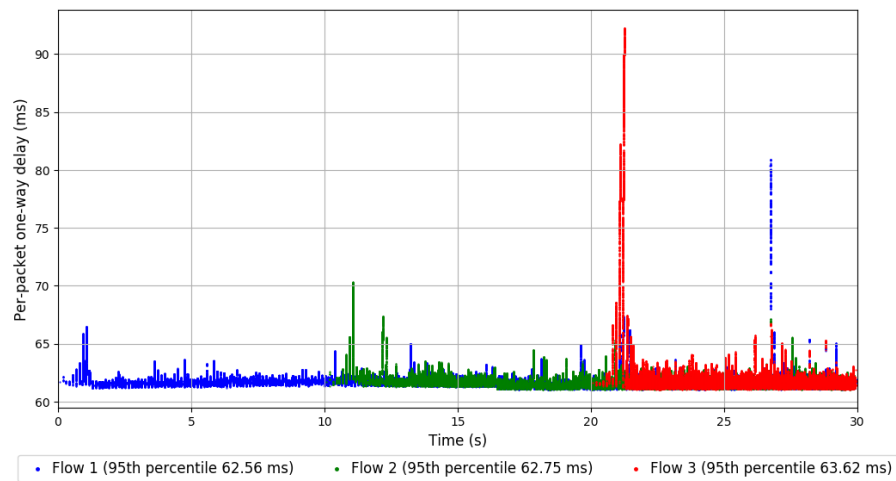
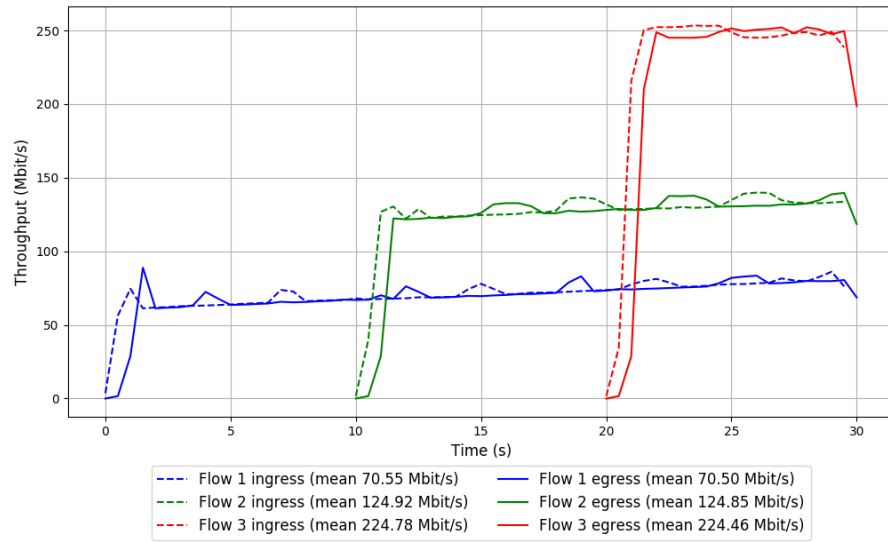


Run 5: Statistics of TCP Vegas

Start at: 2018-08-11 22:47:08  
End at: 2018-08-11 22:47:38  
Local clock offset: -0.04 ms  
Remote clock offset: -0.208 ms

# Below is generated by plot.py at 2018-08-12 04:52:45  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 227.36 Mbit/s  
95th percentile per-packet one-way delay: 62.878 ms  
Loss rate: 0.84%  
-- Flow 1:  
Average throughput: 70.50 Mbit/s  
95th percentile per-packet one-way delay: 62.564 ms  
Loss rate: 0.48%  
-- Flow 2:  
Average throughput: 124.85 Mbit/s  
95th percentile per-packet one-way delay: 62.753 ms  
Loss rate: 0.67%  
-- Flow 3:  
Average throughput: 224.46 Mbit/s  
95th percentile per-packet one-way delay: 63.618 ms  
Loss rate: 1.36%

## Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-08-11 23:14:12

End at: 2018-08-11 23:14:42

Local clock offset: -0.062 ms

Remote clock offset: 0.309 ms

# Below is generated by plot.py at 2018-08-12 04:52:45

# Datalink statistics

-- Total of 3 flows:

Average throughput: 148.74 Mbit/s

95th percentile per-packet one-way delay: 62.143 ms

Loss rate: 0.58%

-- Flow 1:

Average throughput: 64.82 Mbit/s

95th percentile per-packet one-way delay: 62.259 ms

Loss rate: 0.44%

-- Flow 2:

Average throughput: 124.34 Mbit/s

95th percentile per-packet one-way delay: 62.036 ms

Loss rate: 0.65%

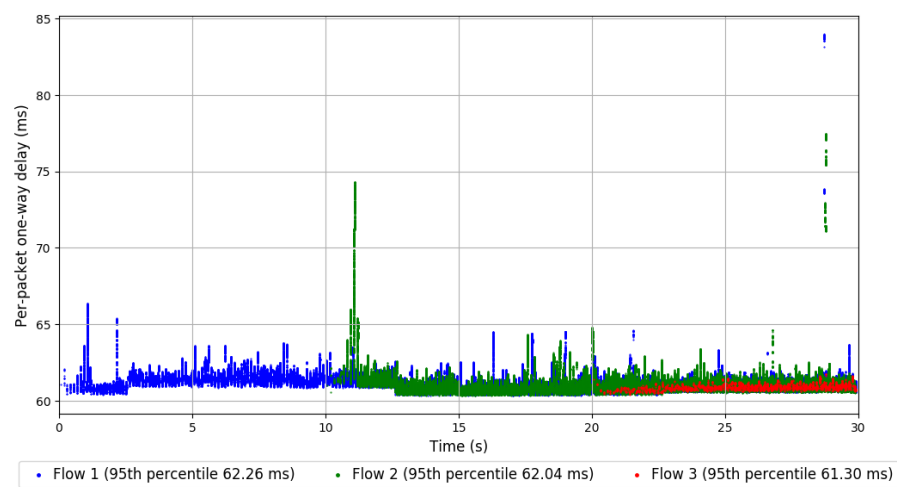
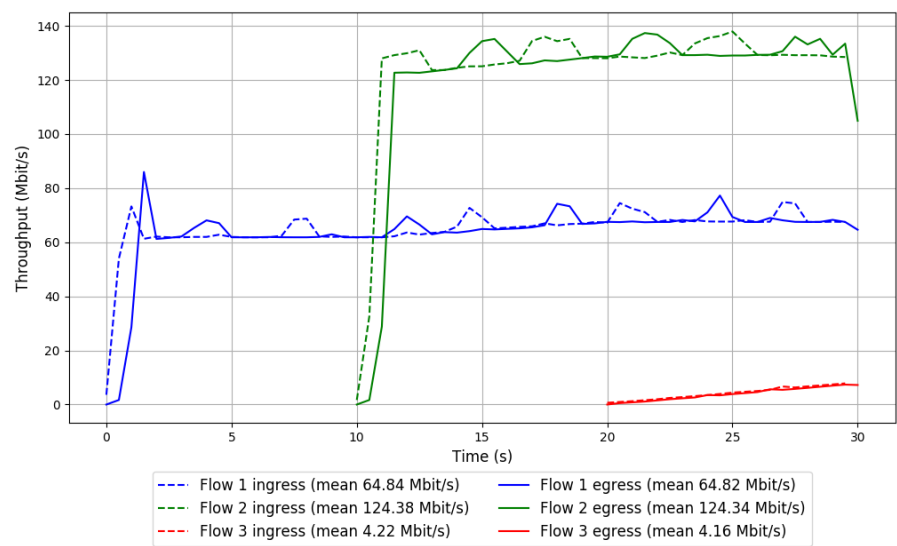
-- Flow 3:

Average throughput: 4.16 Mbit/s

95th percentile per-packet one-way delay: 61.296 ms

Loss rate: 2.55%

Run 6: Report of TCP Vegas — Data Link



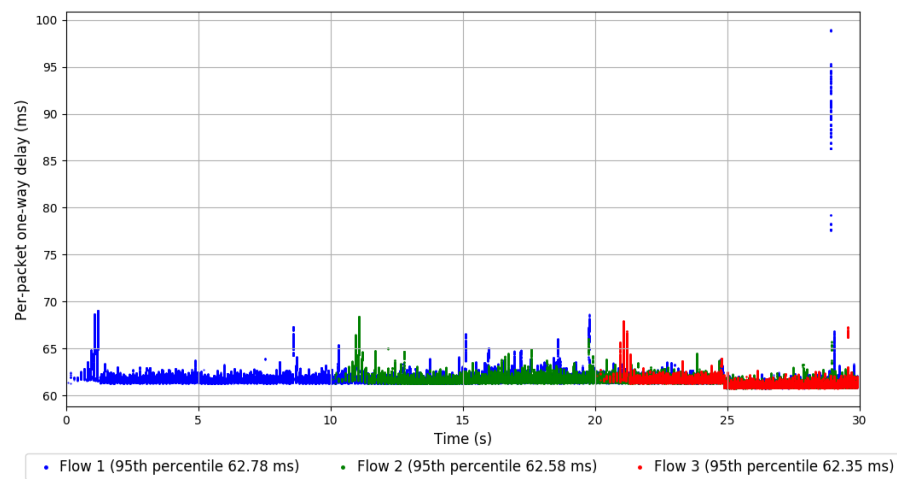
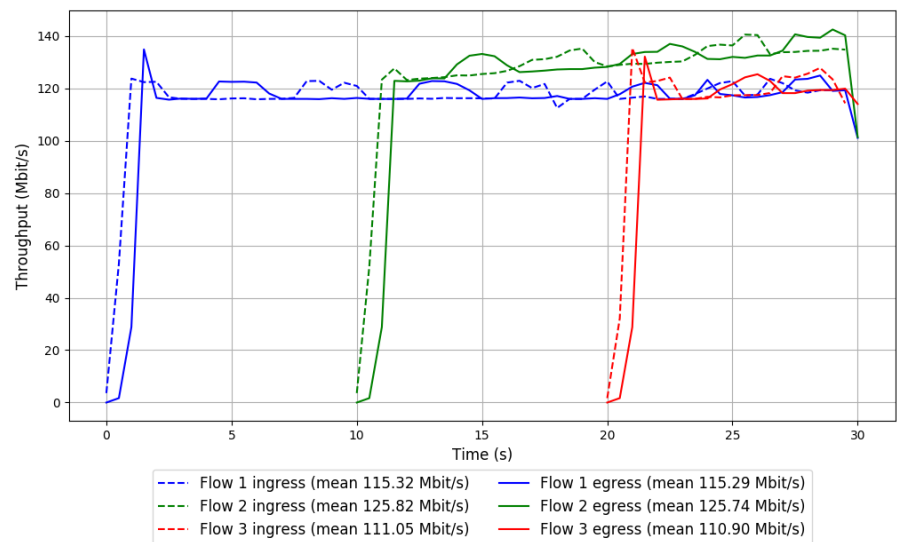
Run 7: Statistics of TCP Vegas

Start at: 2018-08-11 23:41:00  
End at: 2018-08-11 23:41:30  
Local clock offset: -0.011 ms  
Remote clock offset: -0.018 ms

# Below is generated by plot.py at 2018-08-12 04:52:45  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 235.31 Mbit/s  
95th percentile per-packet one-way delay: 62.667 ms  
Loss rate: 0.67%  
-- Flow 1:  
Average throughput: 115.29 Mbit/s  
95th percentile per-packet one-way delay: 62.782 ms  
Loss rate: 0.43%  
-- Flow 2:  
Average throughput: 125.74 Mbit/s  
95th percentile per-packet one-way delay: 62.575 ms  
Loss rate: 0.68%  
-- Flow 3:  
Average throughput: 110.90 Mbit/s  
95th percentile per-packet one-way delay: 62.354 ms  
Loss rate: 1.36%



Run 7: Report of TCP Vegas — Data Link

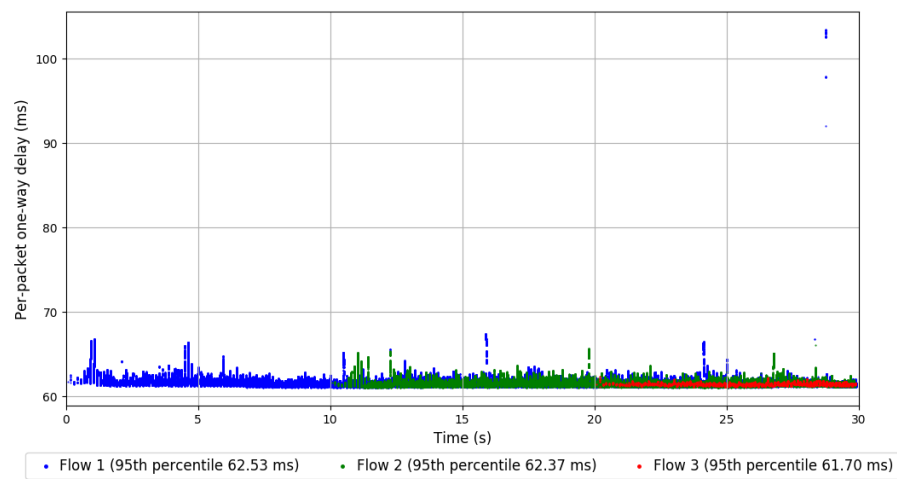
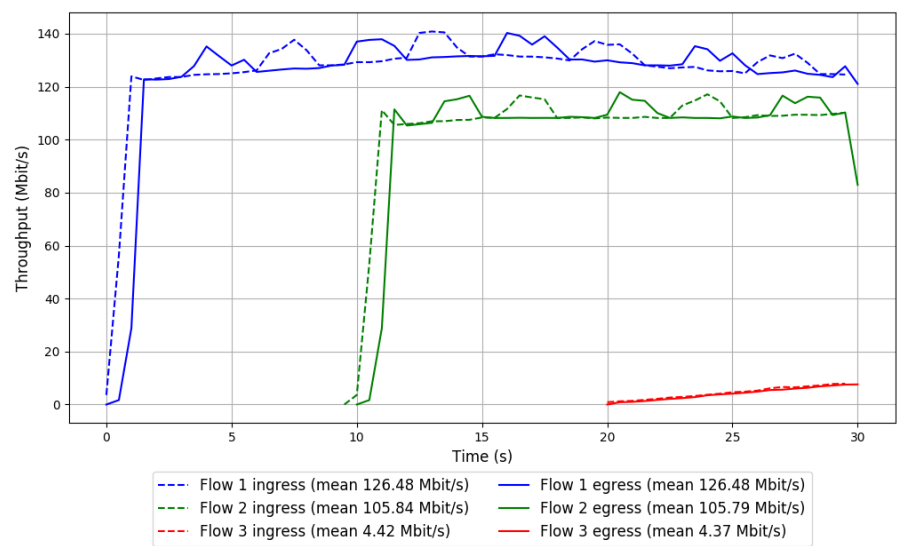


Run 8: Statistics of TCP Vegas

Start at: 2018-08-12 00:07:48  
End at: 2018-08-12 00:08:18  
Local clock offset: -0.092 ms  
Remote clock offset: -0.254 ms

# Below is generated by plot.py at 2018-08-12 04:52:45  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 198.22 Mbit/s  
95th percentile per-packet one-way delay: 62.468 ms  
Loss rate: 0.51%  
-- Flow 1:  
Average throughput: 126.48 Mbit/s  
95th percentile per-packet one-way delay: 62.527 ms  
Loss rate: 0.41%  
-- Flow 2:  
Average throughput: 105.79 Mbit/s  
95th percentile per-packet one-way delay: 62.369 ms  
Loss rate: 0.65%  
-- Flow 3:  
Average throughput: 4.37 Mbit/s  
95th percentile per-packet one-way delay: 61.705 ms  
Loss rate: 2.32%

Run 8: Report of TCP Vegas — Data Link

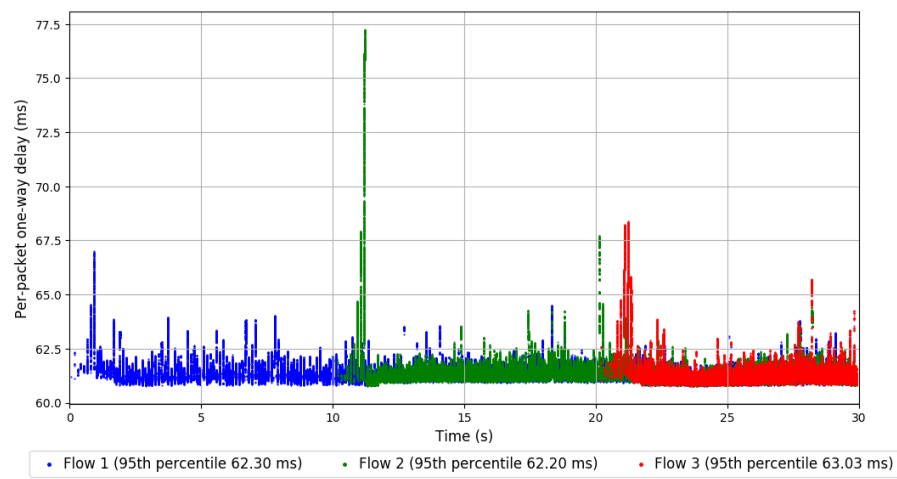
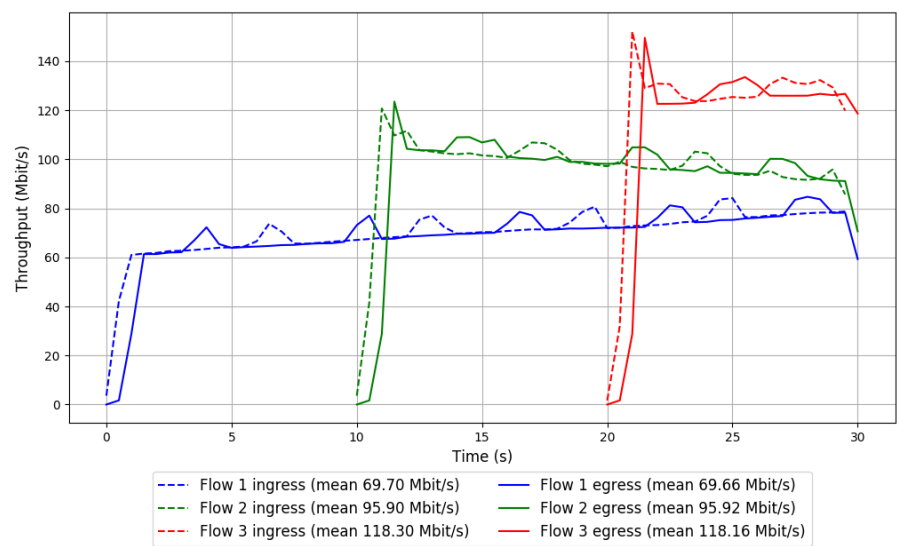


Run 9: Statistics of TCP Vegas

Start at: 2018-08-12 00:34:33  
End at: 2018-08-12 00:35:03  
Local clock offset: -0.056 ms  
Remote clock offset: -0.163 ms

# Below is generated by plot.py at 2018-08-12 04:52:45  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 172.32 Mbit/s  
95th percentile per-packet one-way delay: 62.352 ms  
Loss rate: 0.71%  
-- Flow 1:  
Average throughput: 69.66 Mbit/s  
95th percentile per-packet one-way delay: 62.299 ms  
Loss rate: 0.47%  
-- Flow 2:  
Average throughput: 95.92 Mbit/s  
95th percentile per-packet one-way delay: 62.197 ms  
Loss rate: 0.59%  
-- Flow 3:  
Average throughput: 118.16 Mbit/s  
95th percentile per-packet one-way delay: 63.028 ms  
Loss rate: 1.34%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-08-12 01:01:13

End at: 2018-08-12 01:01:43

Local clock offset: -0.004 ms

Remote clock offset: 0.197 ms

# Below is generated by plot.py at 2018-08-12 04:52:45

# Datalink statistics

-- Total of 3 flows:

Average throughput: 148.94 Mbit/s

95th percentile per-packet one-way delay: 62.074 ms

Loss rate: 0.49%

-- Flow 1:

Average throughput: 102.97 Mbit/s

95th percentile per-packet one-way delay: 61.999 ms

Loss rate: 0.37%

-- Flow 2:

Average throughput: 67.20 Mbit/s

95th percentile per-packet one-way delay: 62.283 ms

Loss rate: 0.68%

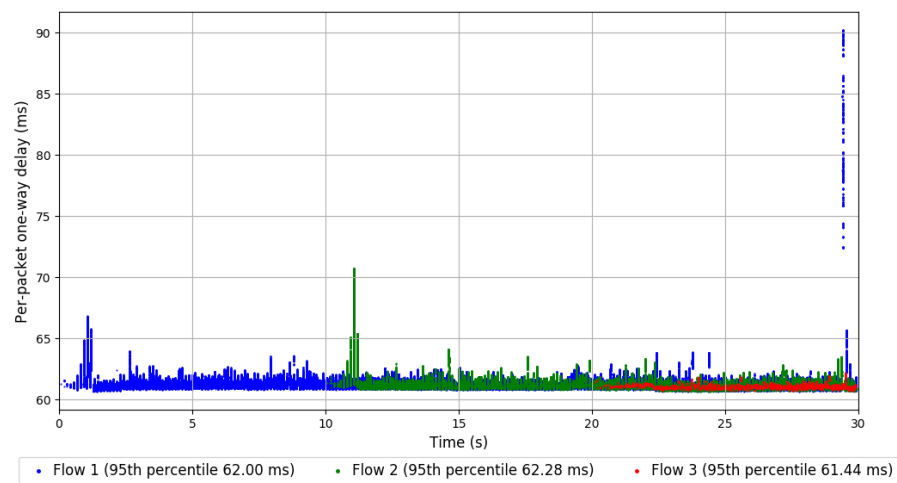
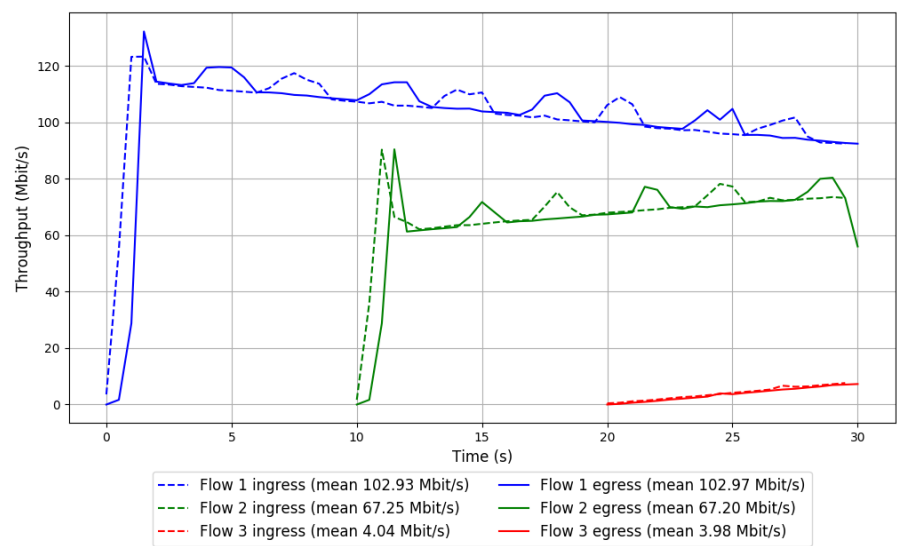
-- Flow 3:

Average throughput: 3.98 Mbit/s

95th percentile per-packet one-way delay: 61.440 ms

Loss rate: 2.63%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-08-11 20:49:17

End at: 2018-08-11 20:49:47

Local clock offset: 0.111 ms

Remote clock offset: 0.588 ms

# Below is generated by plot.py at 2018-08-12 04:53:26

# Datalink statistics

-- Total of 3 flows:

Average throughput: 348.92 Mbit/s

95th percentile per-packet one-way delay: 125.466 ms

Loss rate: 1.70%

-- Flow 1:

Average throughput: 179.99 Mbit/s

95th percentile per-packet one-way delay: 145.791 ms

Loss rate: 2.88%

-- Flow 2:

Average throughput: 216.78 Mbit/s

95th percentile per-packet one-way delay: 120.209 ms

Loss rate: 0.43%

-- Flow 3:

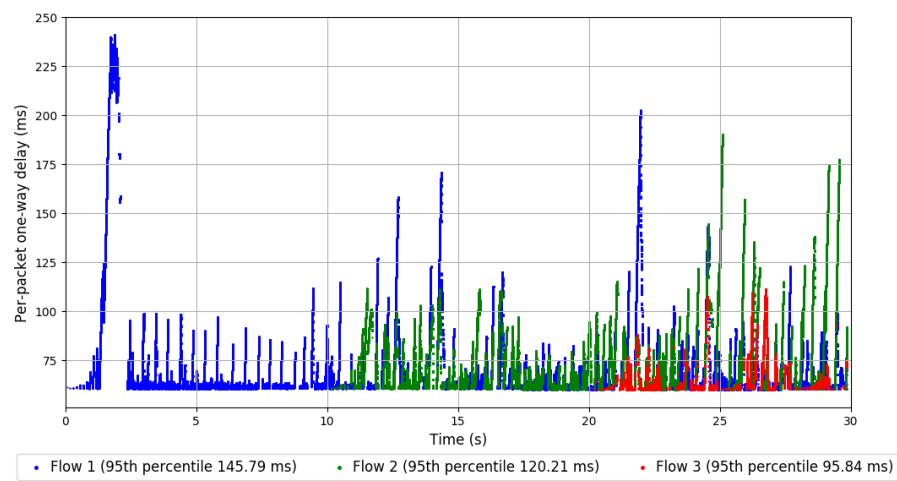
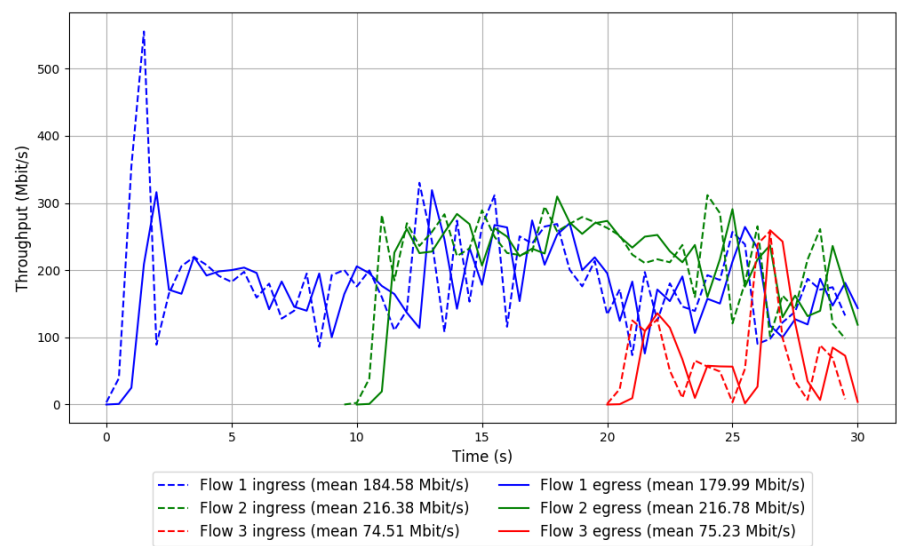
Average throughput: 75.23 Mbit/s

95th percentile per-packet one-way delay: 95.841 ms

Loss rate: 0.28%



Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-08-11 21:15:56

End at: 2018-08-11 21:16:26

Local clock offset: 0.086 ms

Remote clock offset: 0.614 ms

# Below is generated by plot.py at 2018-08-12 04:53:26

# Datalink statistics

-- Total of 3 flows:

Average throughput: 294.87 Mbit/s

95th percentile per-packet one-way delay: 114.330 ms

Loss rate: 1.25%

-- Flow 1:

Average throughput: 125.85 Mbit/s

95th percentile per-packet one-way delay: 113.530 ms

Loss rate: 0.22%

-- Flow 2:

Average throughput: 181.37 Mbit/s

95th percentile per-packet one-way delay: 96.400 ms

Loss rate: 0.57%

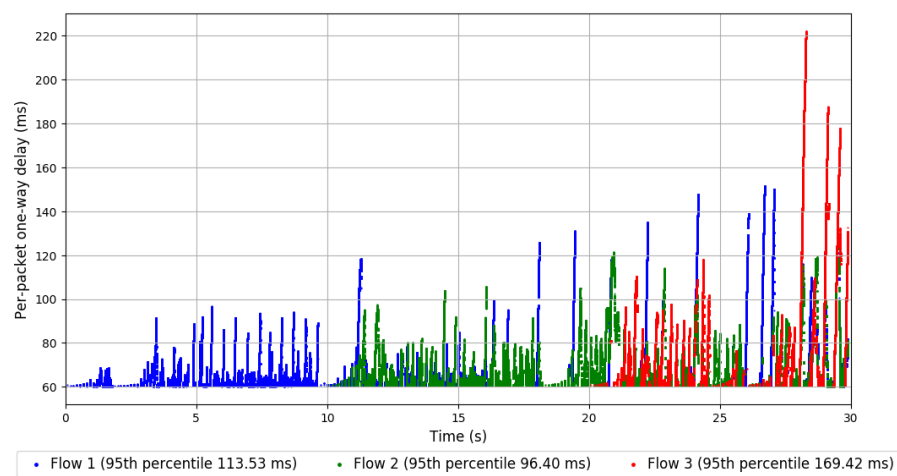
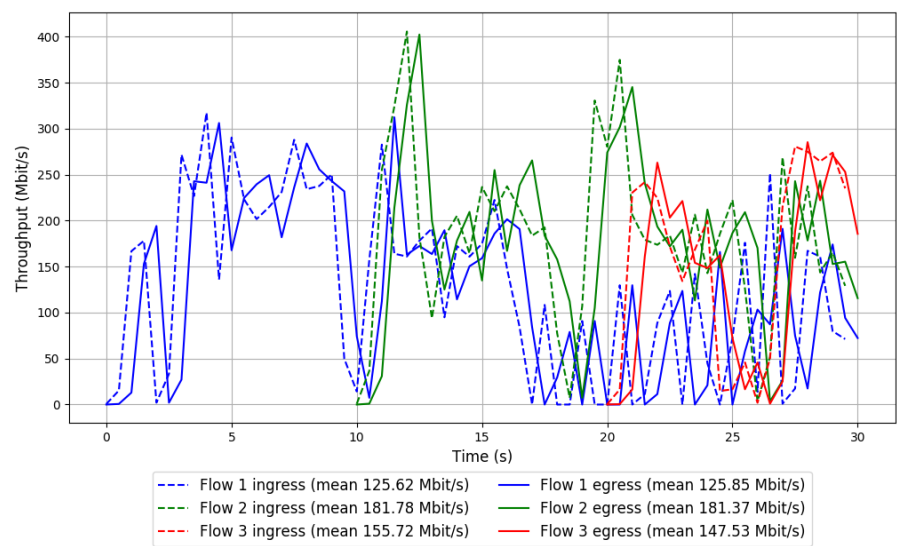
-- Flow 3:

Average throughput: 147.53 Mbit/s

95th percentile per-packet one-way delay: 169.417 ms

Loss rate: 5.38%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-08-11 21:42:36

End at: 2018-08-11 21:43:06

Local clock offset: -0.05 ms

Remote clock offset: -0.12 ms

# Below is generated by plot.py at 2018-08-12 04:55:34

# Datalink statistics

-- Total of 3 flows:

Average throughput: 380.53 Mbit/s

95th percentile per-packet one-way delay: 116.077 ms

Loss rate: 0.68%

-- Flow 1:

Average throughput: 223.79 Mbit/s

95th percentile per-packet one-way delay: 112.896 ms

Loss rate: 0.32%

-- Flow 2:

Average throughput: 155.55 Mbit/s

95th percentile per-packet one-way delay: 102.046 ms

Loss rate: 0.78%

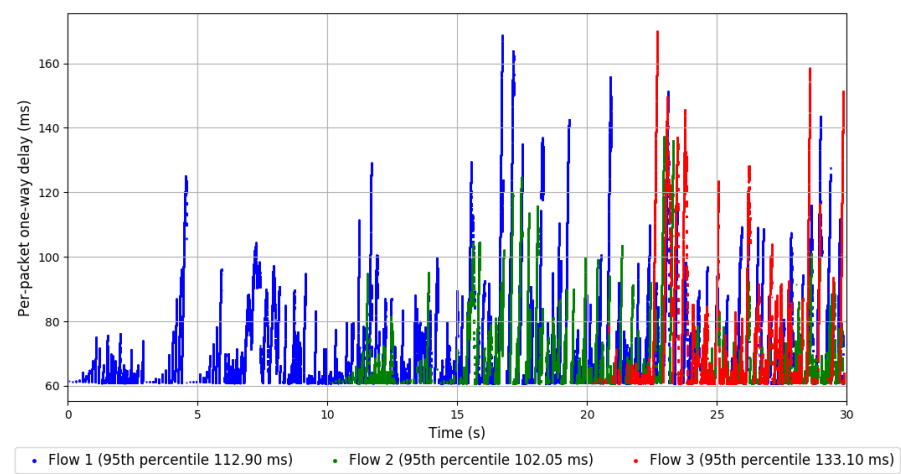
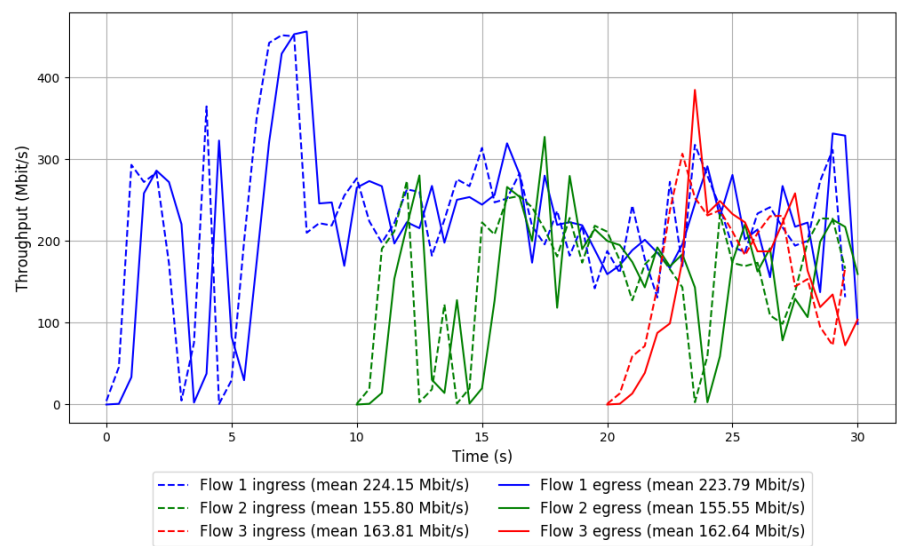
-- Flow 3:

Average throughput: 162.64 Mbit/s

95th percentile per-packet one-way delay: 133.102 ms

Loss rate: 1.95%

Run 3: Report of Verus — Data Link

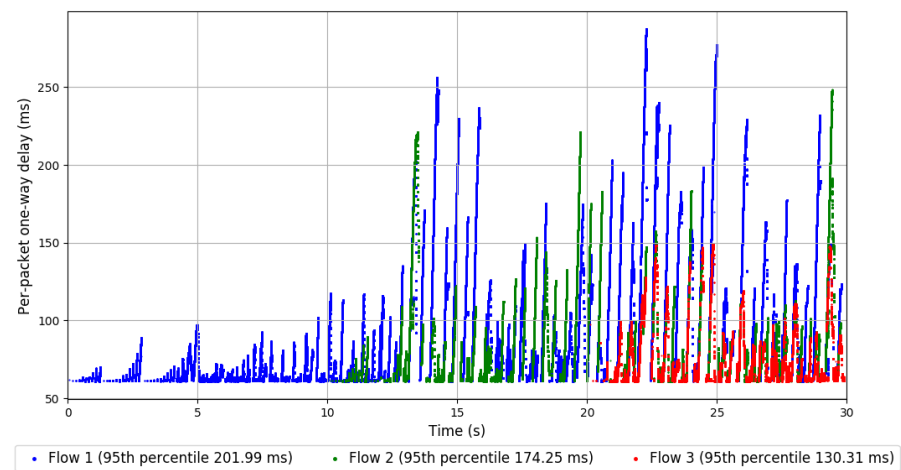
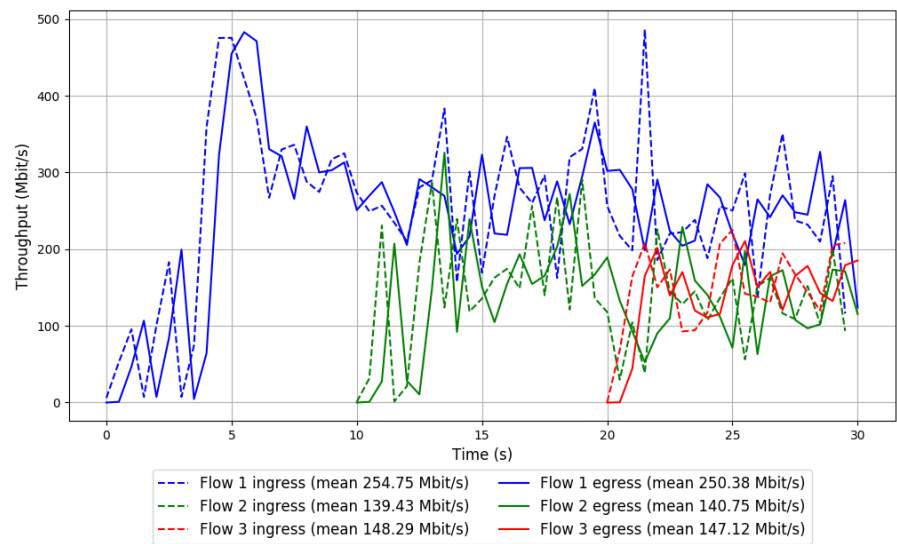


Run 4: Statistics of Verus

Start at: 2018-08-11 22:09:16  
End at: 2018-08-11 22:09:46  
Local clock offset: -0.05 ms  
Remote clock offset: -0.232 ms

# Below is generated by plot.py at 2018-08-12 04:55:53  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 390.57 Mbit/s  
95th percentile per-packet one-way delay: 189.805 ms  
Loss rate: 1.33%  
-- Flow 1:  
Average throughput: 250.38 Mbit/s  
95th percentile per-packet one-way delay: 201.992 ms  
Loss rate: 1.51%  
-- Flow 2:  
Average throughput: 140.75 Mbit/s  
95th percentile per-packet one-way delay: 174.252 ms  
Loss rate: 0.25%  
-- Flow 3:  
Average throughput: 147.12 Mbit/s  
95th percentile per-packet one-way delay: 130.315 ms  
Loss rate: 2.38%

Run 4: Report of Verus — Data Link



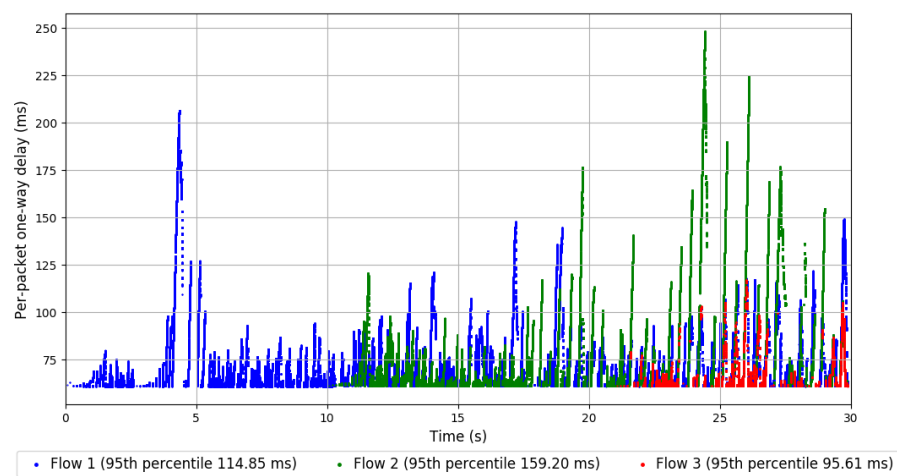
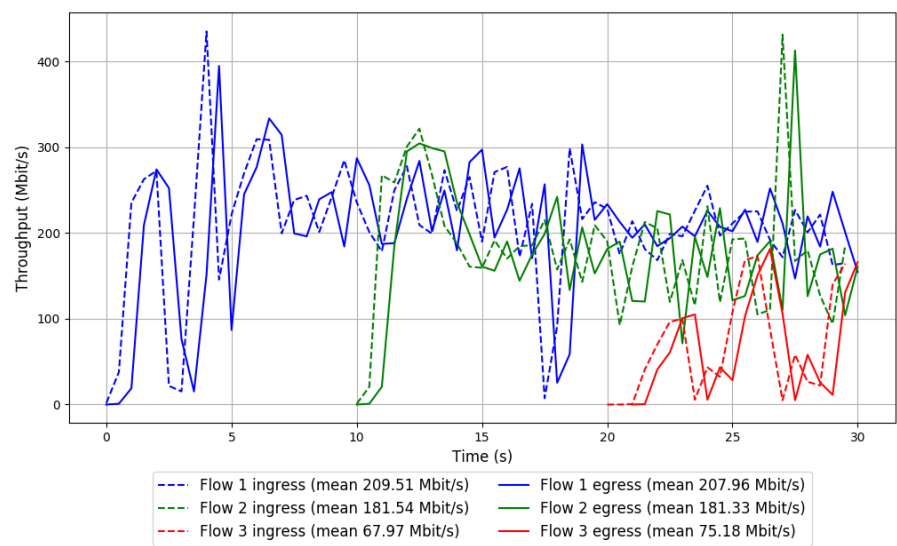
Run 5: Statistics of Verus

Start at: 2018-08-11 22:36:25  
End at: 2018-08-11 22:36:55  
Local clock offset: -0.022 ms  
Remote clock offset: -0.093 ms

# Below is generated by plot.py at 2018-08-12 04:55:53  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 350.60 Mbit/s  
95th percentile per-packet one-way delay: 133.344 ms  
Loss rate: 0.76%  
-- Flow 1:  
Average throughput: 207.96 Mbit/s  
95th percentile per-packet one-way delay: 114.850 ms  
Loss rate: 0.93%  
-- Flow 2:  
Average throughput: 181.33 Mbit/s  
95th percentile per-packet one-way delay: 159.198 ms  
Loss rate: 0.35%  
-- Flow 3:  
Average throughput: 75.18 Mbit/s  
95th percentile per-packet one-way delay: 95.609 ms  
Loss rate: 1.42%



Run 5: Report of Verus — Data Link

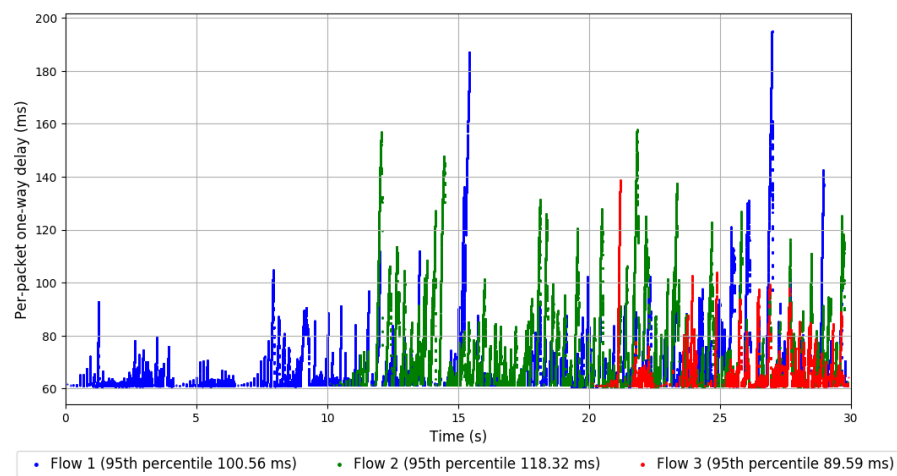
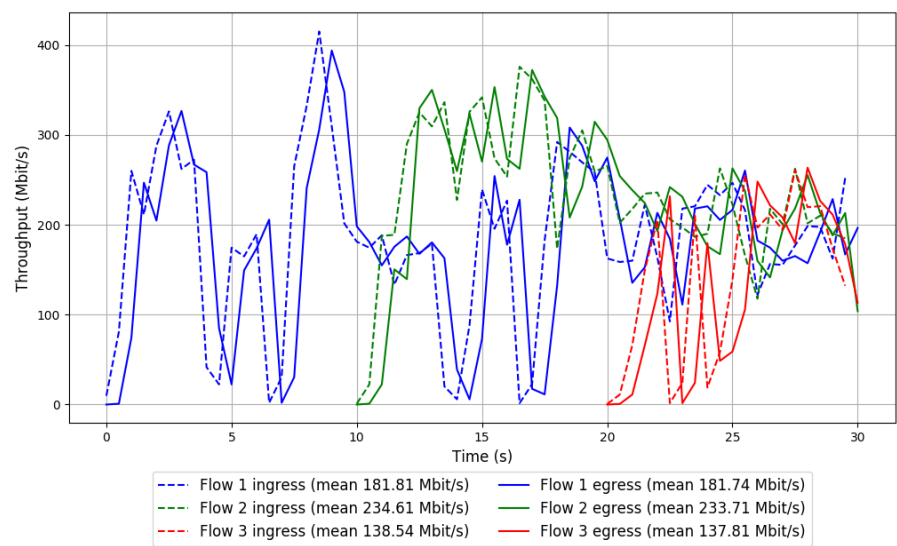


Run 6: Statistics of Verus

Start at: 2018-08-11 23:03:26  
End at: 2018-08-11 23:03:56  
Local clock offset: -0.07 ms  
Remote clock offset: -0.179 ms

# Below is generated by plot.py at 2018-08-12 04:56:20  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 381.86 Mbit/s  
95th percentile per-packet one-way delay: 109.487 ms  
Loss rate: 0.86%  
-- Flow 1:  
Average throughput: 181.74 Mbit/s  
95th percentile per-packet one-way delay: 100.563 ms  
Loss rate: 0.51%  
-- Flow 2:  
Average throughput: 233.71 Mbit/s  
95th percentile per-packet one-way delay: 118.317 ms  
Loss rate: 1.01%  
-- Flow 3:  
Average throughput: 137.81 Mbit/s  
95th percentile per-packet one-way delay: 89.594 ms  
Loss rate: 1.74%

Run 6: Report of Verus — Data Link

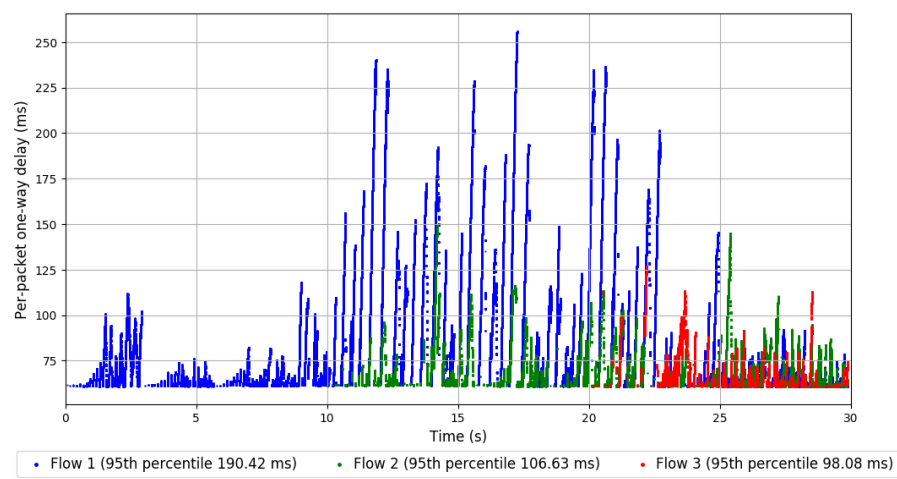
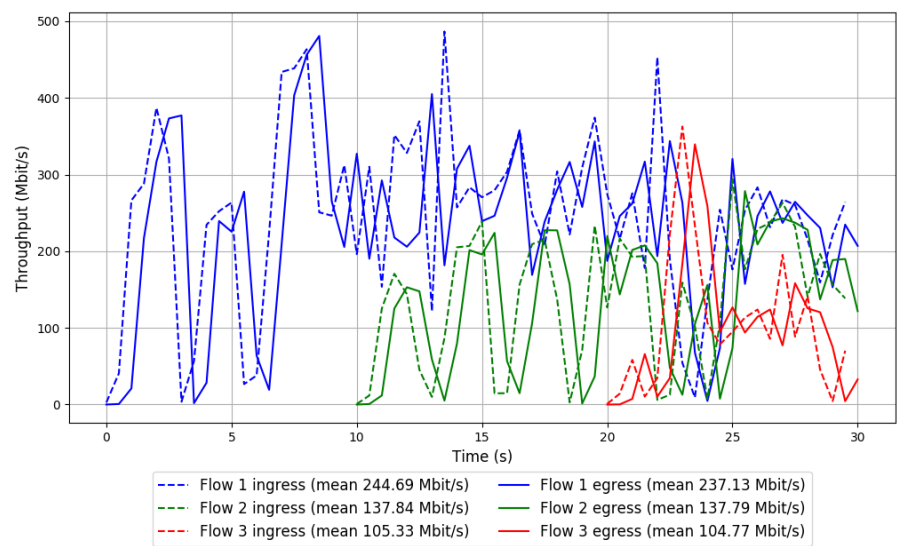


Run 7: Statistics of Verus

Start at: 2018-08-11 23:30:19  
End at: 2018-08-11 23:30:49  
Local clock offset: 0.052 ms  
Remote clock offset: -0.019 ms

# Below is generated by plot.py at 2018-08-12 04:59:38  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 362.97 Mbit/s  
95th percentile per-packet one-way delay: 170.904 ms  
Loss rate: 2.58%  
-- Flow 1:  
Average throughput: 237.13 Mbit/s  
95th percentile per-packet one-way delay: 190.422 ms  
Loss rate: 3.49%  
-- Flow 2:  
Average throughput: 137.79 Mbit/s  
95th percentile per-packet one-way delay: 106.634 ms  
Loss rate: 0.44%  
-- Flow 3:  
Average throughput: 104.77 Mbit/s  
95th percentile per-packet one-way delay: 98.084 ms  
Loss rate: 1.80%

Run 7: Report of Verus — Data Link

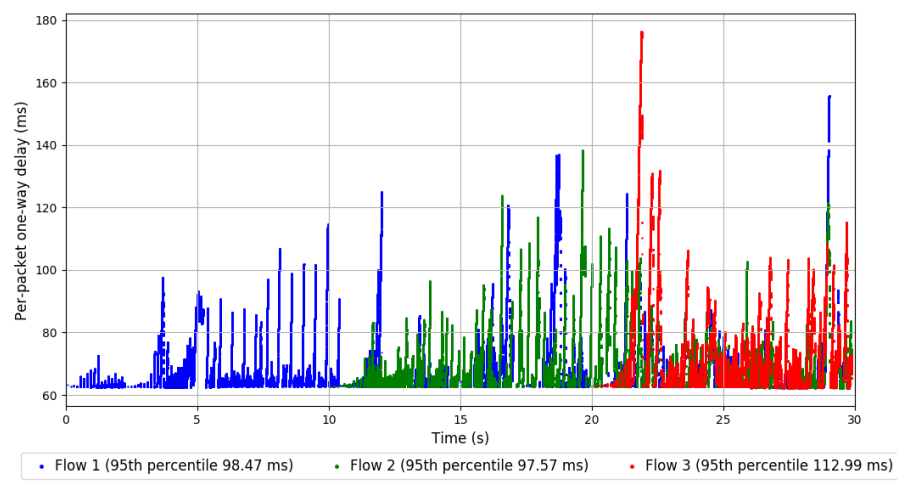
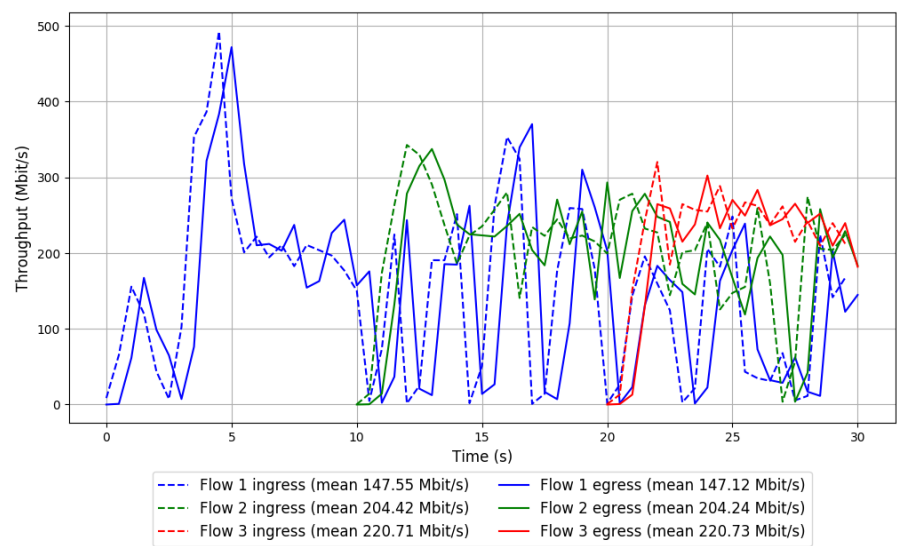


Run 8: Statistics of Verus

Start at: 2018-08-11 23:56:59  
End at: 2018-08-11 23:57:29  
Local clock offset: 0.038 ms  
Remote clock offset: -1.224 ms

# Below is generated by plot.py at 2018-08-12 04:59:41  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 355.30 Mbit/s  
95th percentile per-packet one-way delay: 100.443 ms  
Loss rate: 0.71%  
-- Flow 1:  
Average throughput: 147.12 Mbit/s  
95th percentile per-packet one-way delay: 98.472 ms  
Loss rate: 0.71%  
-- Flow 2:  
Average throughput: 204.24 Mbit/s  
95th percentile per-packet one-way delay: 97.574 ms  
Loss rate: 0.72%  
-- Flow 3:  
Average throughput: 220.73 Mbit/s  
95th percentile per-packet one-way delay: 112.986 ms  
Loss rate: 0.70%

Run 8: Report of Verus — Data Link



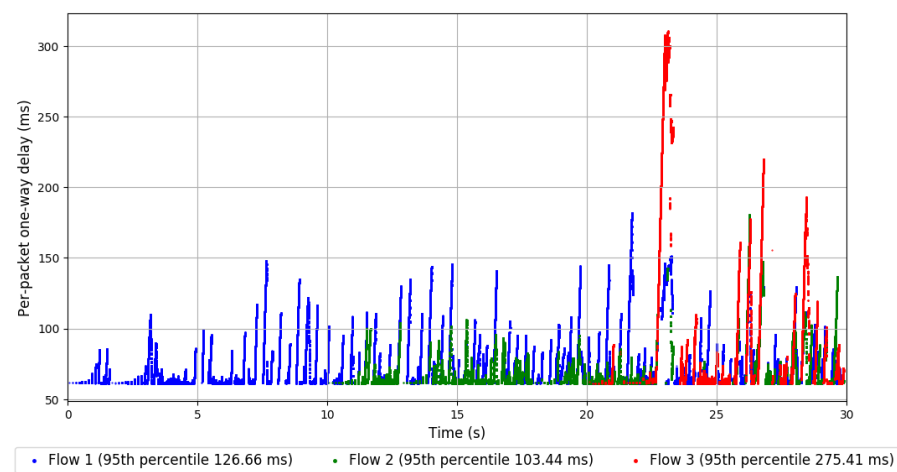
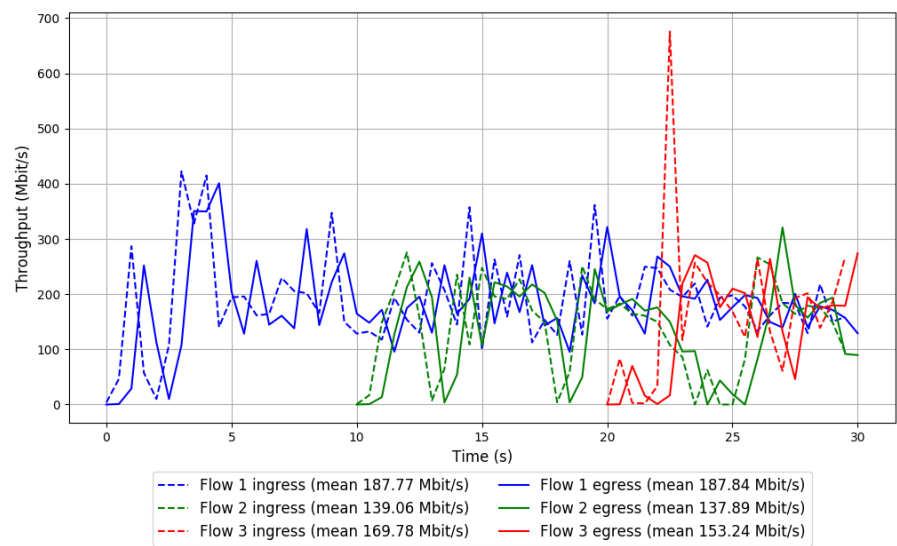
Run 9: Statistics of Verus

Start at: 2018-08-12 00:23:53  
End at: 2018-08-12 00:24:23  
Local clock offset: -0.038 ms  
Remote clock offset: -0.285 ms

# Below is generated by plot.py at 2018-08-12 04:59:41  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 329.02 Mbit/s  
95th percentile per-packet one-way delay: 138.869 ms  
Loss rate: 2.44%  
-- Flow 1:  
Average throughput: 187.84 Mbit/s  
95th percentile per-packet one-way delay: 126.657 ms  
Loss rate: 0.78%  
-- Flow 2:  
Average throughput: 137.89 Mbit/s  
95th percentile per-packet one-way delay: 103.440 ms  
Loss rate: 1.46%  
-- Flow 3:  
Average throughput: 153.24 Mbit/s  
95th percentile per-packet one-way delay: 275.413 ms  
Loss rate: 9.67%



Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-08-12 00:50:31

End at: 2018-08-12 00:51:01

Local clock offset: -0.062 ms

Remote clock offset: 0.253 ms

# Below is generated by plot.py at 2018-08-12 04:59:56

# Datalink statistics

-- Total of 3 flows:

Average throughput: 350.31 Mbit/s

95th percentile per-packet one-way delay: 188.706 ms

Loss rate: 2.20%

-- Flow 1:

Average throughput: 195.93 Mbit/s

95th percentile per-packet one-way delay: 143.966 ms

Loss rate: 1.16%

-- Flow 2:

Average throughput: 202.90 Mbit/s

95th percentile per-packet one-way delay: 220.244 ms

Loss rate: 3.65%

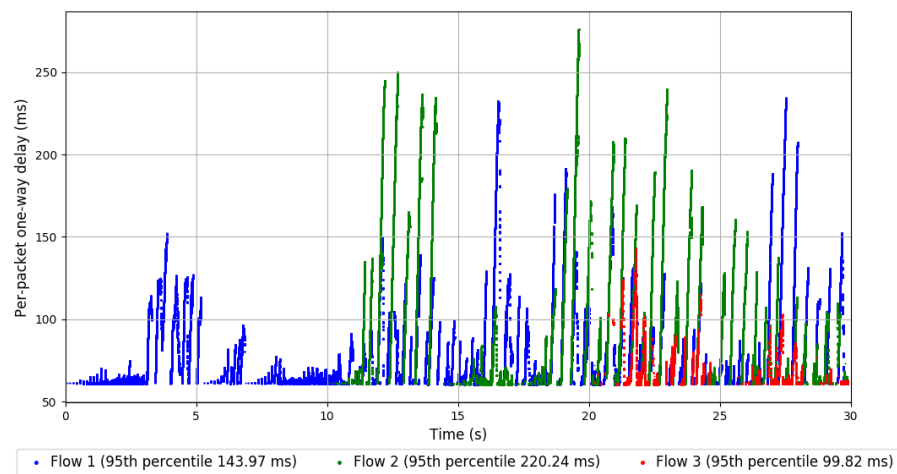
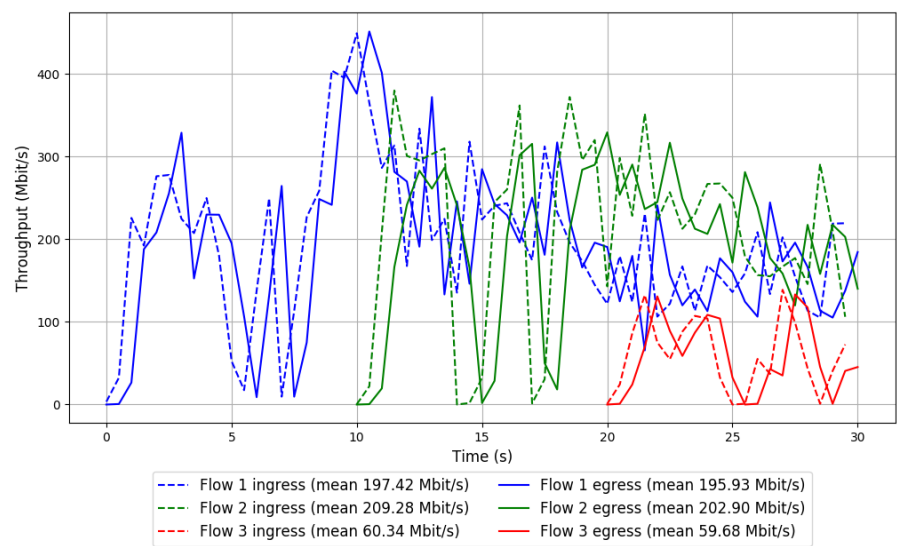
-- Flow 3:

Average throughput: 59.68 Mbit/s

95th percentile per-packet one-way delay: 99.820 ms

Loss rate: 2.29%

Run 10: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2018-08-11 20:44:35

End at: 2018-08-11 20:45:05

Local clock offset: 0.134 ms

Remote clock offset: -0.08 ms

# Below is generated by plot.py at 2018-08-12 05:06:07

# Datalink statistics

-- Total of 3 flows:

Average throughput: 563.46 Mbit/s

95th percentile per-packet one-way delay: 83.677 ms

Loss rate: 0.77%

-- Flow 1:

Average throughput: 363.66 Mbit/s

95th percentile per-packet one-way delay: 77.767 ms

Loss rate: 0.36%

-- Flow 2:

Average throughput: 251.76 Mbit/s

95th percentile per-packet one-way delay: 113.481 ms

Loss rate: 1.43%

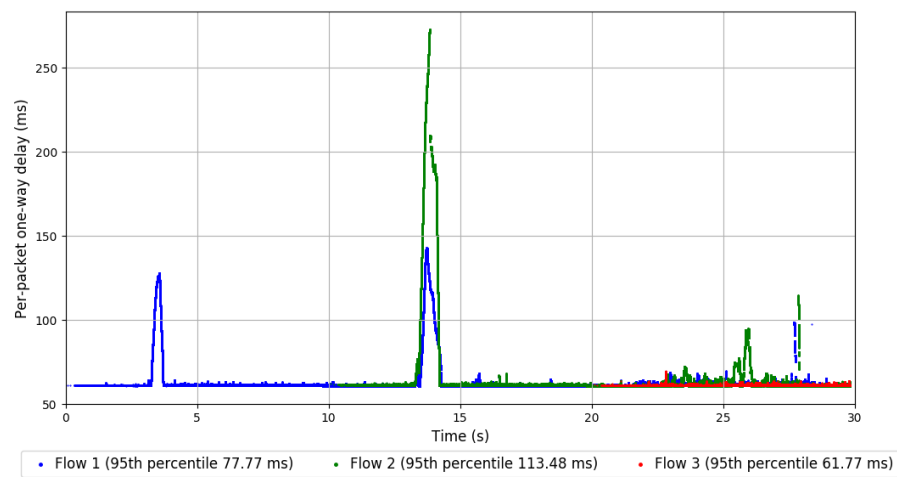
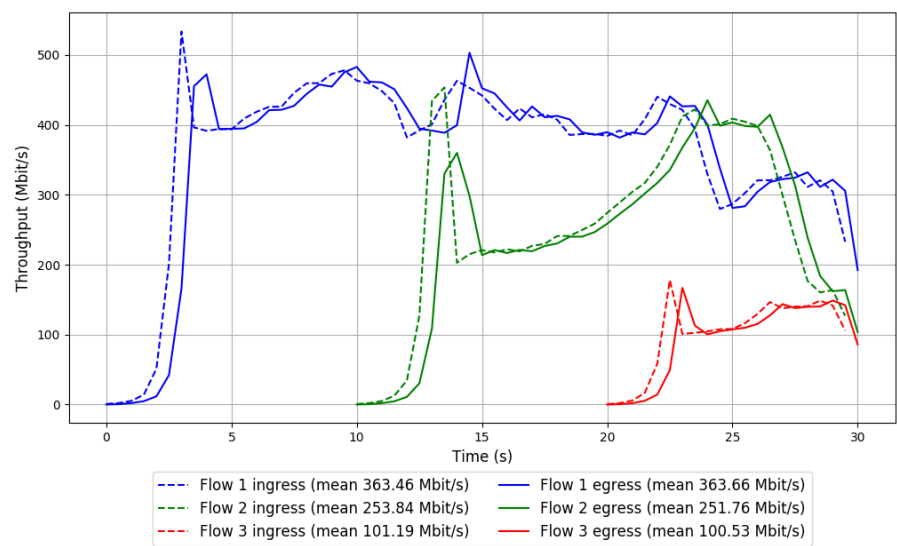
-- Flow 3:

Average throughput: 100.53 Mbit/s

95th percentile per-packet one-way delay: 61.766 ms

Loss rate: 1.90%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2018-08-11 21:11:15

End at: 2018-08-11 21:11:45

Local clock offset: 0.049 ms

Remote clock offset: 0.642 ms

# Below is generated by plot.py at 2018-08-12 05:06:38

# Datalink statistics

-- Total of 3 flows:

Average throughput: 590.62 Mbit/s

95th percentile per-packet one-way delay: 83.796 ms

Loss rate: 0.46%

-- Flow 1:

Average throughput: 357.93 Mbit/s

95th percentile per-packet one-way delay: 70.451 ms

Loss rate: 0.50%

-- Flow 2:

Average throughput: 338.27 Mbit/s

95th percentile per-packet one-way delay: 115.254 ms

Loss rate: 0.34%

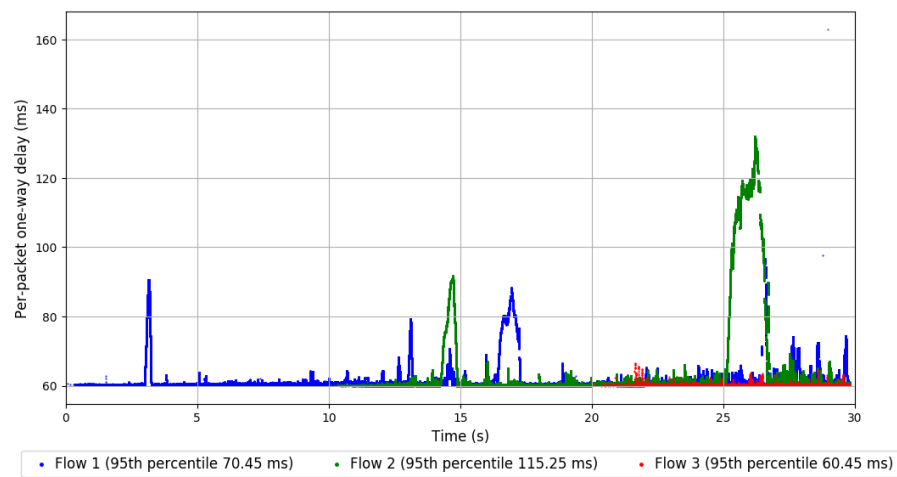
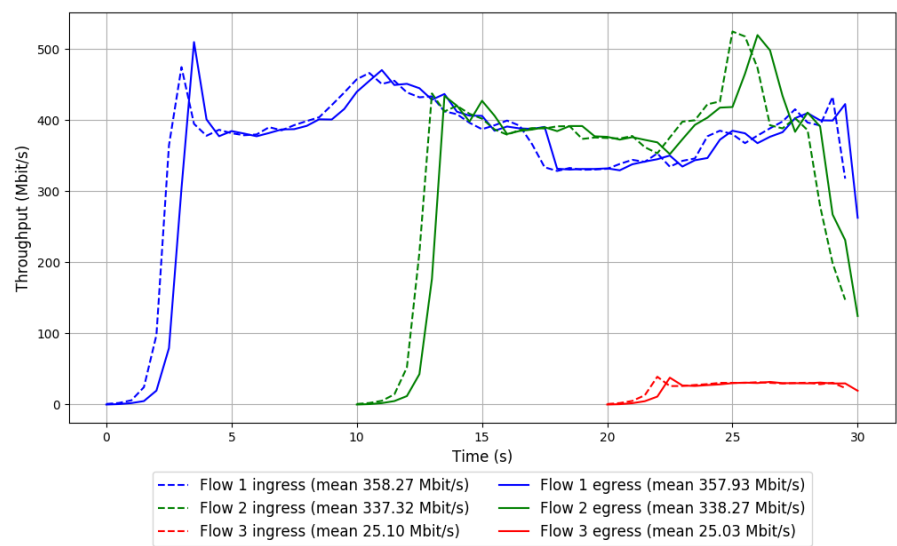
-- Flow 3:

Average throughput: 25.03 Mbit/s

95th percentile per-packet one-way delay: 60.448 ms

Loss rate: 1.53%

Run 2: Report of PCC-Vivace — Data Link



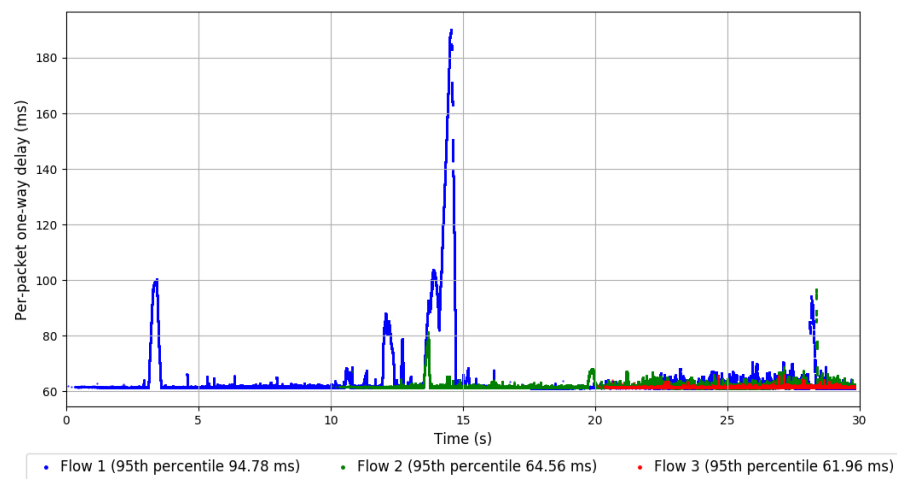
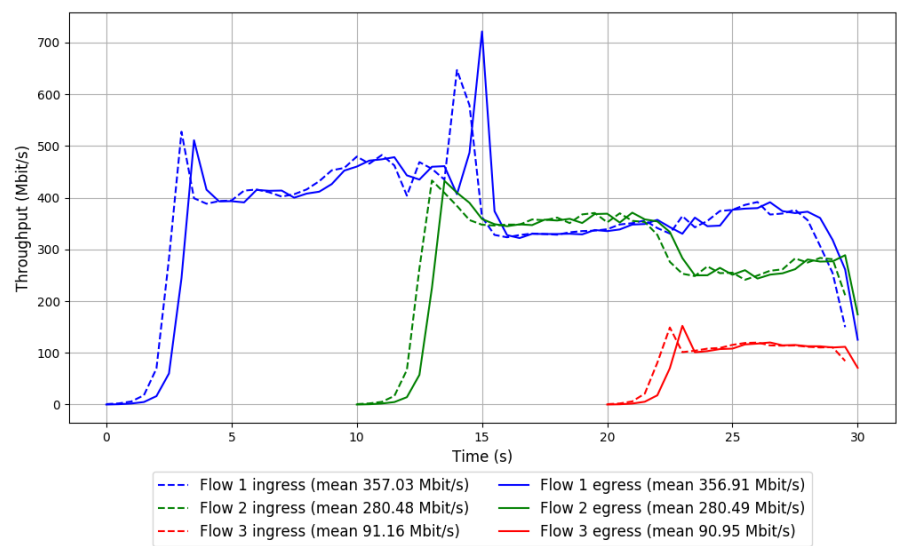
Run 3: Statistics of PCC-Vivace

Start at: 2018-08-11 21:37:57  
End at: 2018-08-11 21:38:27  
Local clock offset: -0.07 ms  
Remote clock offset: -0.455 ms

# Below is generated by plot.py at 2018-08-12 05:06:44  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 572.79 Mbit/s  
95th percentile per-packet one-way delay: 82.599 ms  
Loss rate: 0.56%  
-- Flow 1:  
Average throughput: 356.91 Mbit/s  
95th percentile per-packet one-way delay: 94.779 ms  
Loss rate: 0.45%  
-- Flow 2:  
Average throughput: 280.49 Mbit/s  
95th percentile per-packet one-way delay: 64.562 ms  
Loss rate: 0.62%  
-- Flow 3:  
Average throughput: 90.95 Mbit/s  
95th percentile per-packet one-way delay: 61.964 ms  
Loss rate: 1.49%



Run 3: Report of PCC-Vivace — Data Link

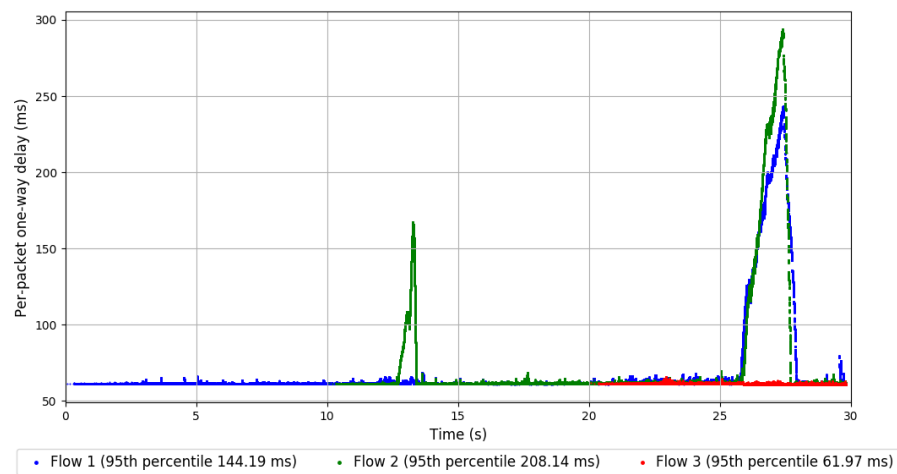
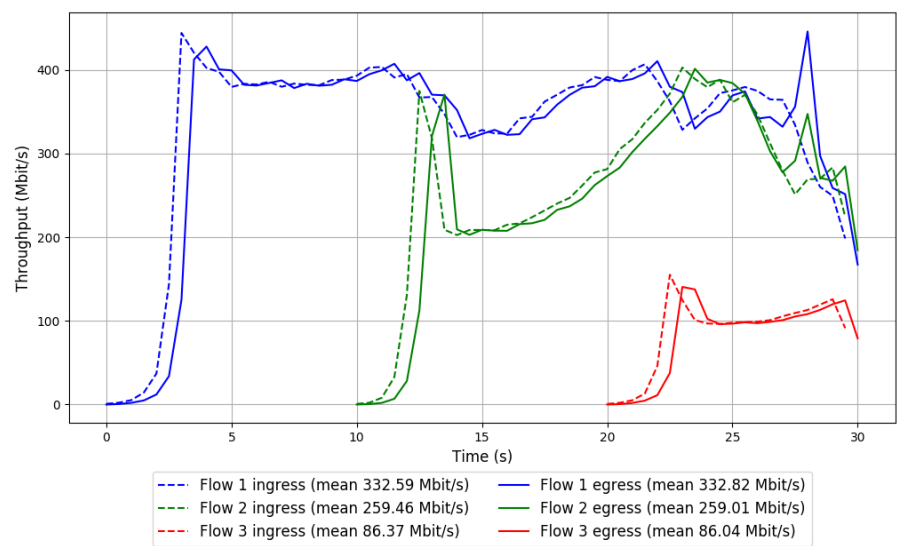


Run 4: Statistics of PCC-Vivace

Start at: 2018-08-11 22:04:39  
End at: 2018-08-11 22:05:09  
Local clock offset: -0.089 ms  
Remote clock offset: -0.038 ms

# Below is generated by plot.py at 2018-08-12 05:06:44  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 532.81 Mbit/s  
95th percentile per-packet one-way delay: 160.858 ms  
Loss rate: 0.55%  
-- Flow 1:  
Average throughput: 332.82 Mbit/s  
95th percentile per-packet one-way delay: 144.191 ms  
Loss rate: 0.34%  
-- Flow 2:  
Average throughput: 259.01 Mbit/s  
95th percentile per-packet one-way delay: 208.143 ms  
Loss rate: 0.78%  
-- Flow 3:  
Average throughput: 86.04 Mbit/s  
95th percentile per-packet one-way delay: 61.968 ms  
Loss rate: 1.62%

Run 4: Report of PCC-Vivace — Data Link

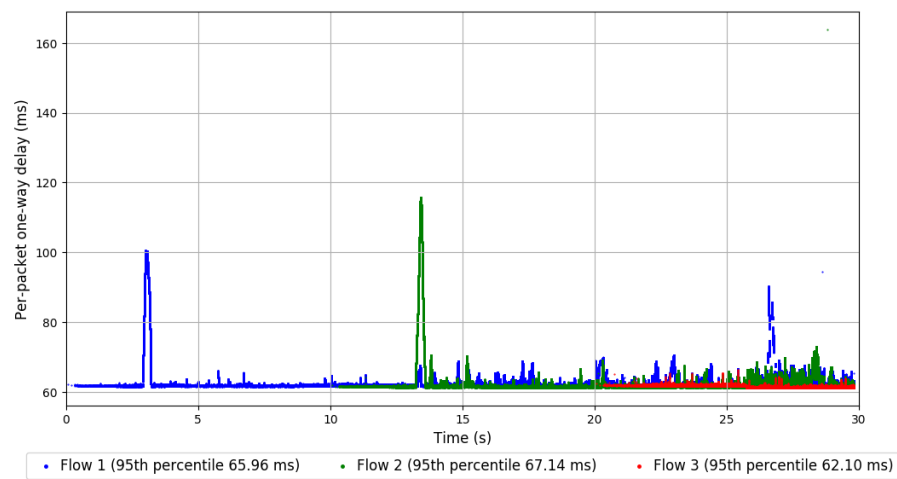
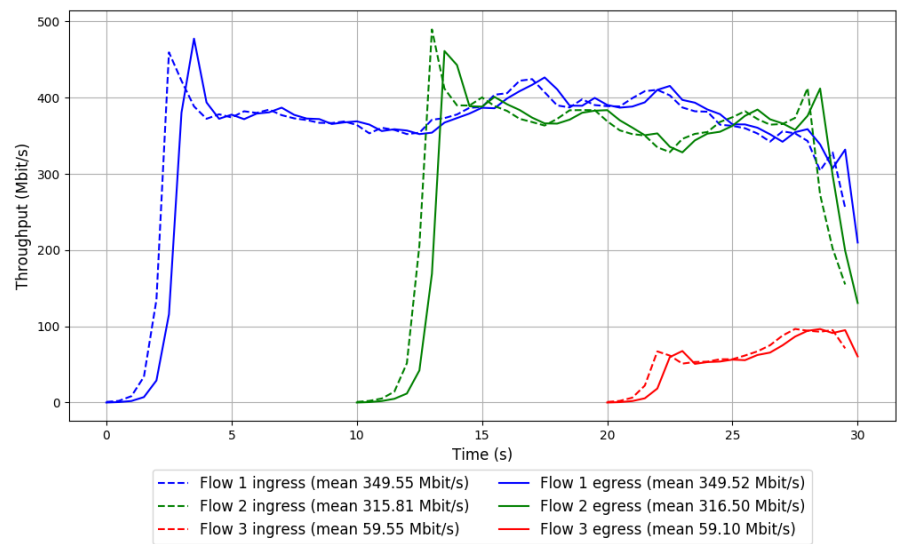


Run 5: Statistics of PCC-Vivace

Start at: 2018-08-11 22:31:41  
End at: 2018-08-11 22:32:11  
Local clock offset: 0.055 ms  
Remote clock offset: -0.619 ms

# Below is generated by plot.py at 2018-08-12 05:10:20  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 578.87 Mbit/s  
95th percentile per-packet one-way delay: 66.197 ms  
Loss rate: 0.46%  
-- Flow 1:  
Average throughput: 349.52 Mbit/s  
95th percentile per-packet one-way delay: 65.961 ms  
Loss rate: 0.41%  
-- Flow 2:  
Average throughput: 316.50 Mbit/s  
95th percentile per-packet one-way delay: 67.141 ms  
Loss rate: 0.40%  
-- Flow 3:  
Average throughput: 59.10 Mbit/s  
95th percentile per-packet one-way delay: 62.104 ms  
Loss rate: 2.00%

Run 5: Report of PCC-Vivace — Data Link

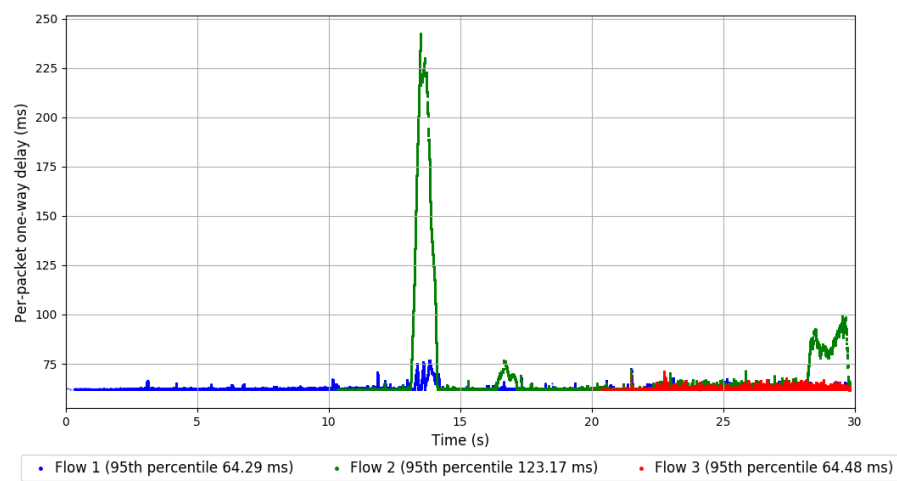
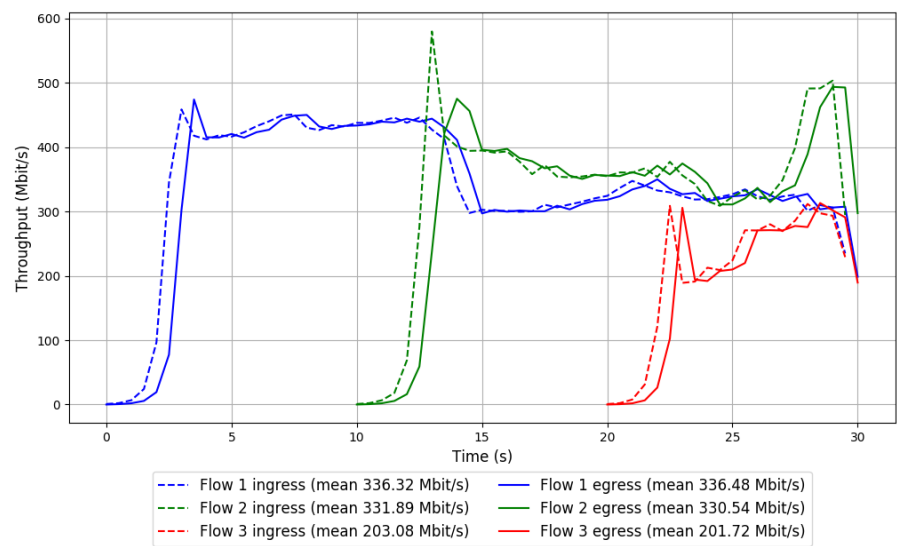


Run 6: Statistics of PCC-Vivace

Start at: 2018-08-11 22:58:38  
End at: 2018-08-11 22:59:08  
Local clock offset: -0.037 ms  
Remote clock offset: -0.777 ms

# Below is generated by plot.py at 2018-08-12 05:10:40  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 621.81 Mbit/s  
95th percentile per-packet one-way delay: 82.445 ms  
Loss rate: 0.77%  
-- Flow 1:  
Average throughput: 336.48 Mbit/s  
95th percentile per-packet one-way delay: 64.288 ms  
Loss rate: 0.37%  
-- Flow 2:  
Average throughput: 330.54 Mbit/s  
95th percentile per-packet one-way delay: 123.168 ms  
Loss rate: 1.02%  
-- Flow 3:  
Average throughput: 201.72 Mbit/s  
95th percentile per-packet one-way delay: 64.479 ms  
Loss rate: 1.94%

Run 6: Report of PCC-Vivace — Data Link



Run 7: Statistics of PCC-Vivace

Start at: 2018-08-11 23:25:34

End at: 2018-08-11 23:26:04

Local clock offset: -0.057 ms

Remote clock offset: 0.729 ms

# Below is generated by plot.py at 2018-08-12 05:10:40

# Datalink statistics

-- Total of 3 flows:

Average throughput: 548.13 Mbit/s

95th percentile per-packet one-way delay: 121.184 ms

Loss rate: 1.00%

-- Flow 1:

Average throughput: 314.10 Mbit/s

95th percentile per-packet one-way delay: 103.687 ms

Loss rate: 0.37%

-- Flow 2:

Average throughput: 276.57 Mbit/s

95th percentile per-packet one-way delay: 226.511 ms

Loss rate: 1.94%

-- Flow 3:

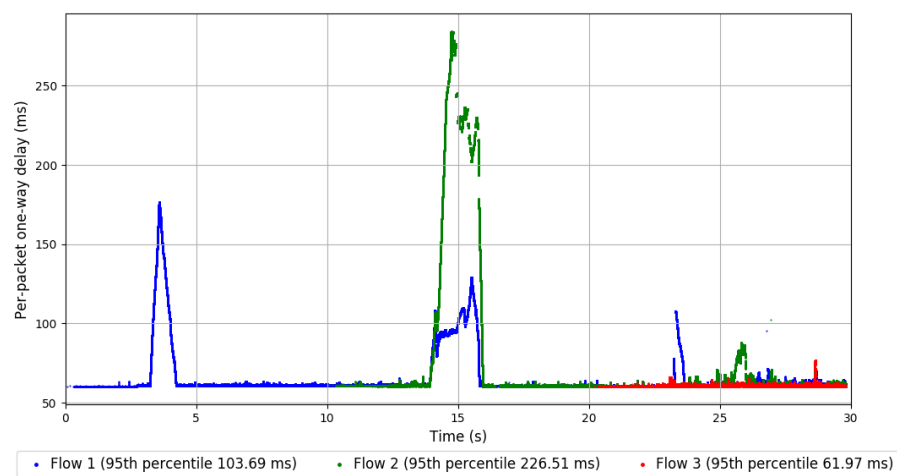
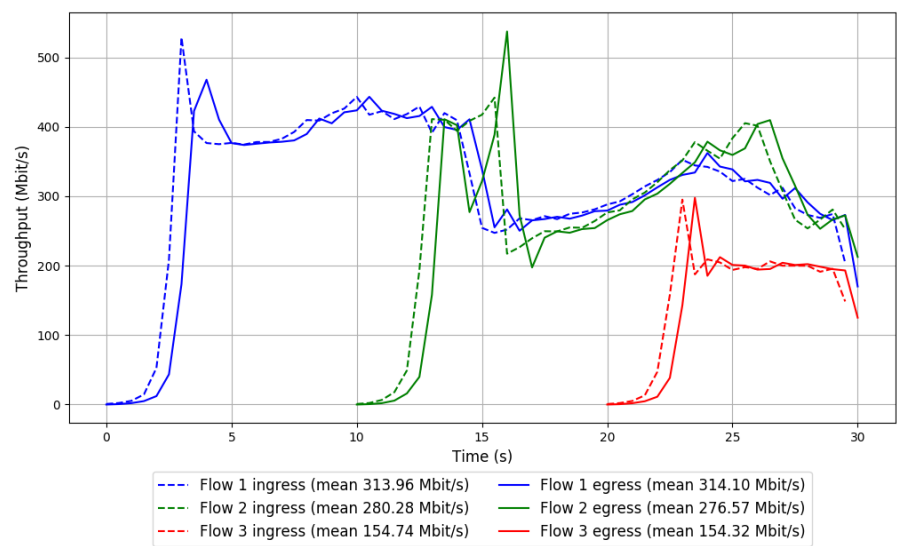
Average throughput: 154.32 Mbit/s

95th percentile per-packet one-way delay: 61.966 ms

Loss rate: 1.52%



Run 7: Report of PCC-Vivace — Data Link



Run 8: Statistics of PCC-Vivace

Start at: 2018-08-11 23:52:21

End at: 2018-08-11 23:52:51

Local clock offset: -0.016 ms

Remote clock offset: 0.753 ms

# Below is generated by plot.py at 2018-08-12 05:10:40

# Datalink statistics

-- Total of 3 flows:

Average throughput: 577.07 Mbit/s

95th percentile per-packet one-way delay: 66.855 ms

Loss rate: 0.64%

-- Flow 1:

Average throughput: 351.24 Mbit/s

95th percentile per-packet one-way delay: 74.036 ms

Loss rate: 0.49%

-- Flow 2:

Average throughput: 262.61 Mbit/s

95th percentile per-packet one-way delay: 64.915 ms

Loss rate: 0.61%

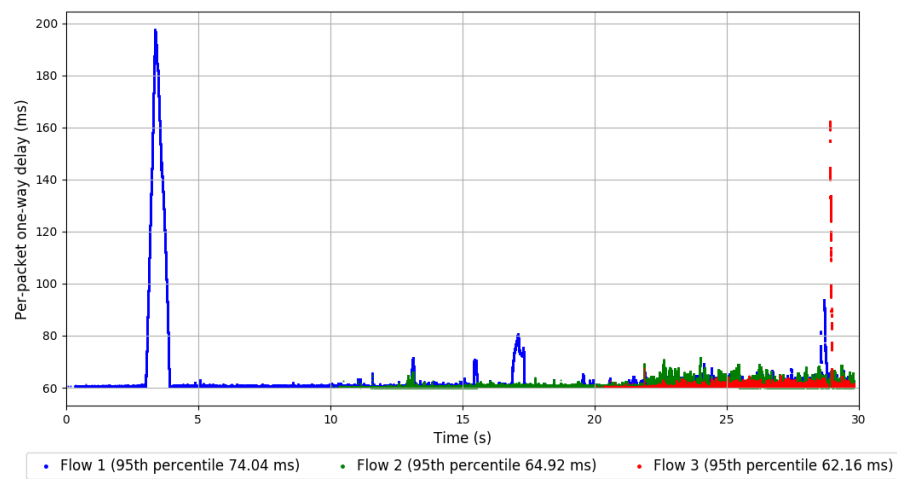
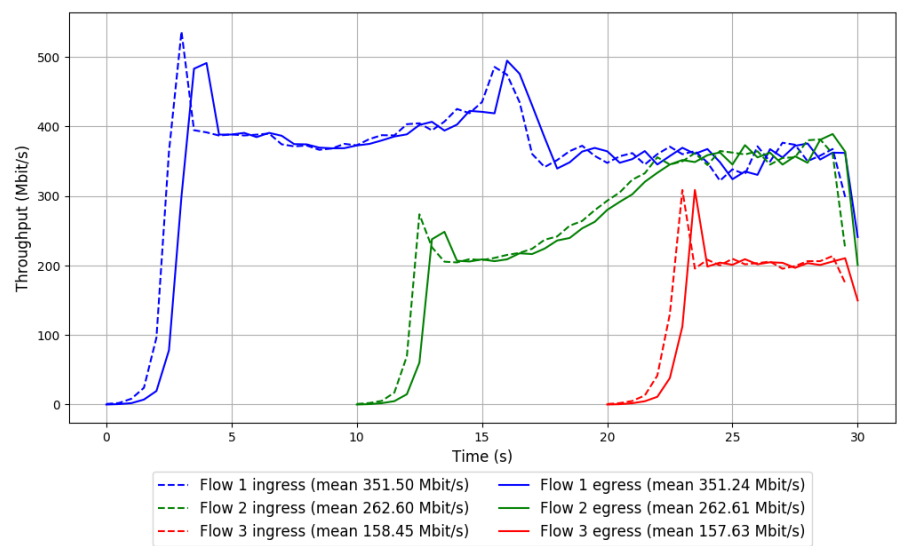
-- Flow 3:

Average throughput: 157.63 Mbit/s

95th percentile per-packet one-way delay: 62.155 ms

Loss rate: 1.76%

Run 8: Report of PCC-Vivace — Data Link



Run 9: Statistics of PCC-Vivace

Start at: 2018-08-12 00:19:13

End at: 2018-08-12 00:19:43

Local clock offset: -0.012 ms

Remote clock offset: 0.784 ms

# Below is generated by plot.py at 2018-08-12 05:11:50

# Datalink statistics

-- Total of 3 flows:

Average throughput: 561.04 Mbit/s

95th percentile per-packet one-way delay: 62.664 ms

Loss rate: 0.48%

-- Flow 1:

Average throughput: 325.09 Mbit/s

95th percentile per-packet one-way delay: 62.622 ms

Loss rate: 0.23%

-- Flow 2:

Average throughput: 271.62 Mbit/s

95th percentile per-packet one-way delay: 62.670 ms

Loss rate: 0.57%

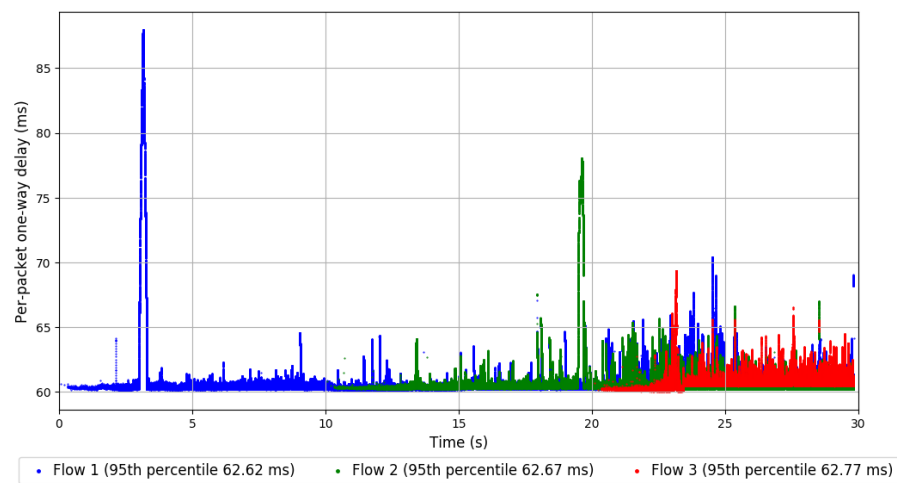
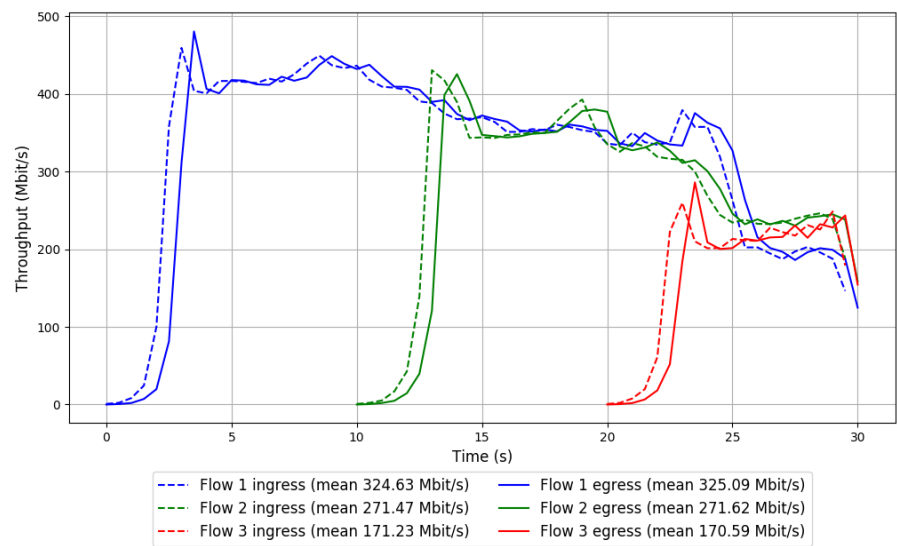
-- Flow 3:

Average throughput: 170.59 Mbit/s

95th percentile per-packet one-way delay: 62.766 ms

Loss rate: 1.61%

Run 9: Report of PCC-Vivace — Data Link

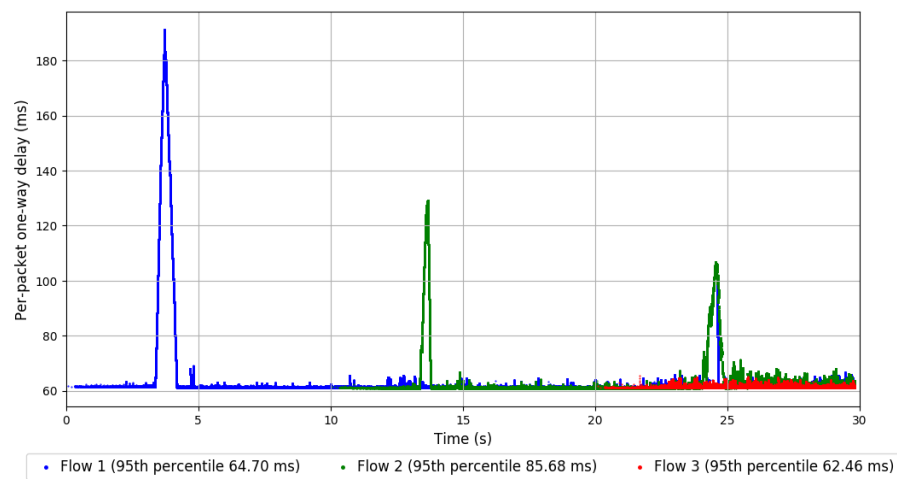
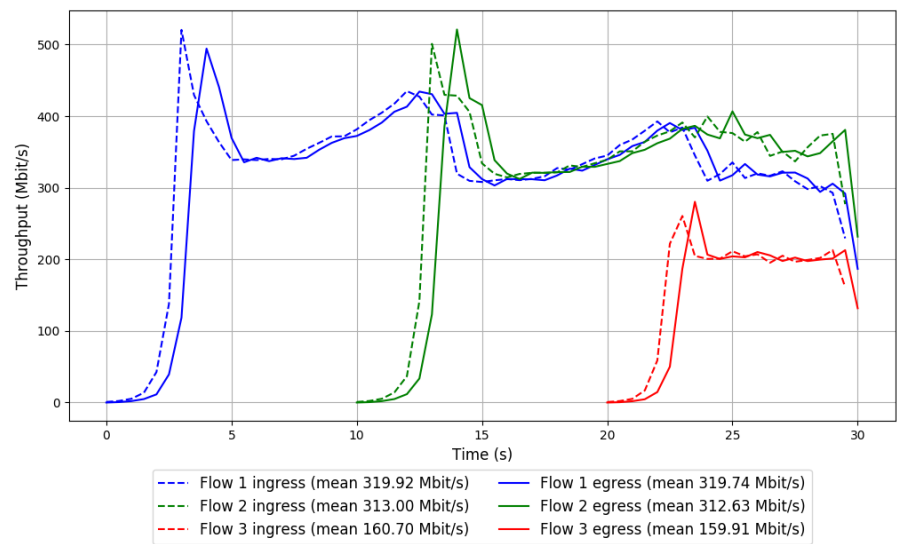


Run 10: Statistics of PCC-Vivace

Start at: 2018-08-12 00:45:51  
End at: 2018-08-12 00:46:21  
Local clock offset: -0.001 ms  
Remote clock offset: -0.118 ms

# Below is generated by plot.py at 2018-08-12 05:11:54  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 579.47 Mbit/s  
95th percentile per-packet one-way delay: 70.529 ms  
Loss rate: 0.68%  
-- Flow 1:  
Average throughput: 319.74 Mbit/s  
95th percentile per-packet one-way delay: 64.699 ms  
Loss rate: 0.46%  
-- Flow 2:  
Average throughput: 312.63 Mbit/s  
95th percentile per-packet one-way delay: 85.682 ms  
Loss rate: 0.74%  
-- Flow 3:  
Average throughput: 159.91 Mbit/s  
95th percentile per-packet one-way delay: 62.461 ms  
Loss rate: 1.74%

Run 10: Report of PCC-Vivace — Data Link



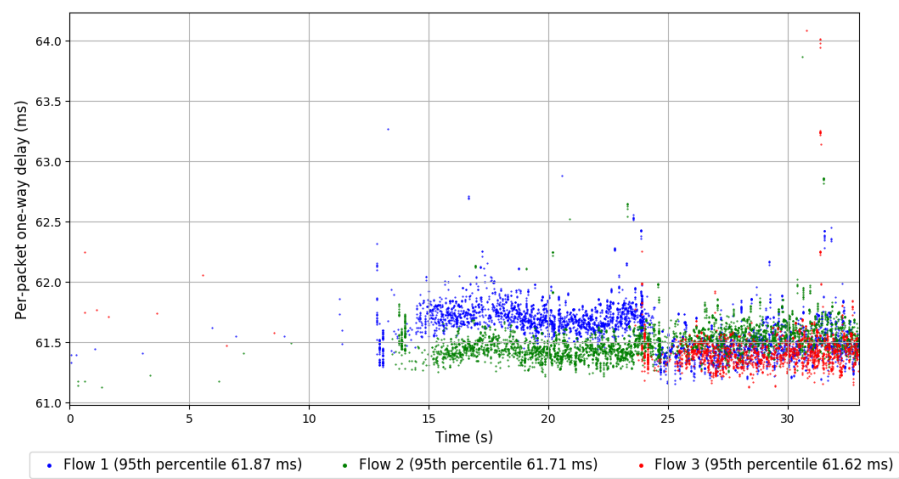
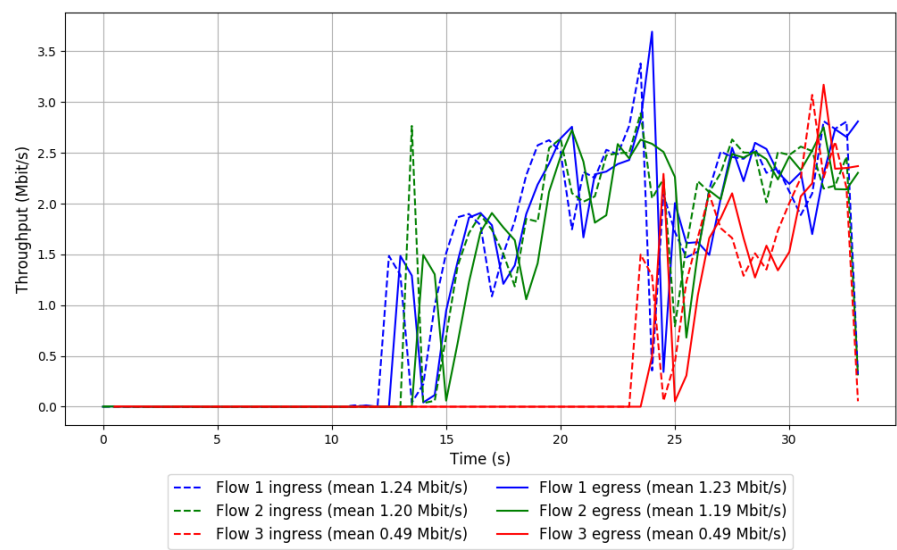
Run 1: Statistics of WebRTC media

Start at: 2018-08-11 20:46:23  
End at: 2018-08-11 20:46:53  
Local clock offset: 0.12 ms  
Remote clock offset: -0.258 ms

# Below is generated by plot.py at 2018-08-12 05:11:54  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 2.89 Mbit/s  
95th percentile per-packet one-way delay: 61.815 ms  
Loss rate: 0.85%  
-- Flow 1:  
Average throughput: 1.23 Mbit/s  
95th percentile per-packet one-way delay: 61.869 ms  
Loss rate: 0.86%  
-- Flow 2:  
Average throughput: 1.19 Mbit/s  
95th percentile per-packet one-way delay: 61.711 ms  
Loss rate: 0.89%  
-- Flow 3:  
Average throughput: 0.49 Mbit/s  
95th percentile per-packet one-way delay: 61.619 ms  
Loss rate: 0.72%



Run 1: Report of WebRTC media — Data Link

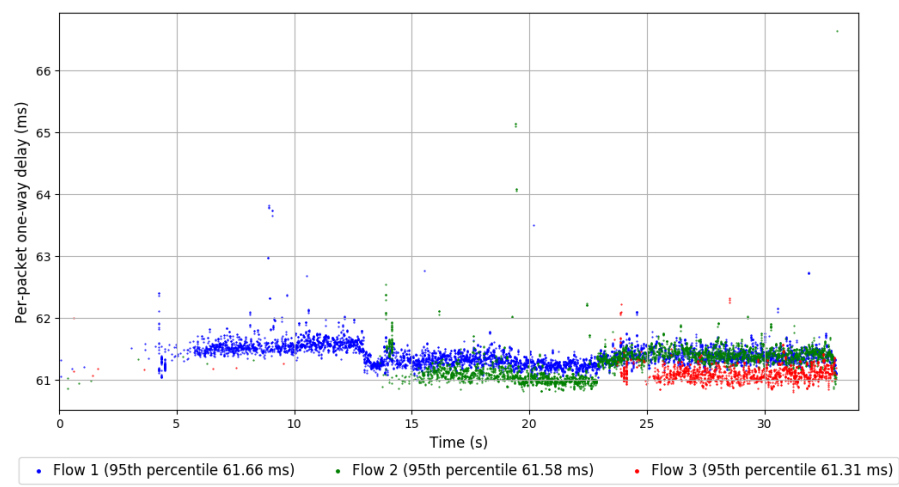
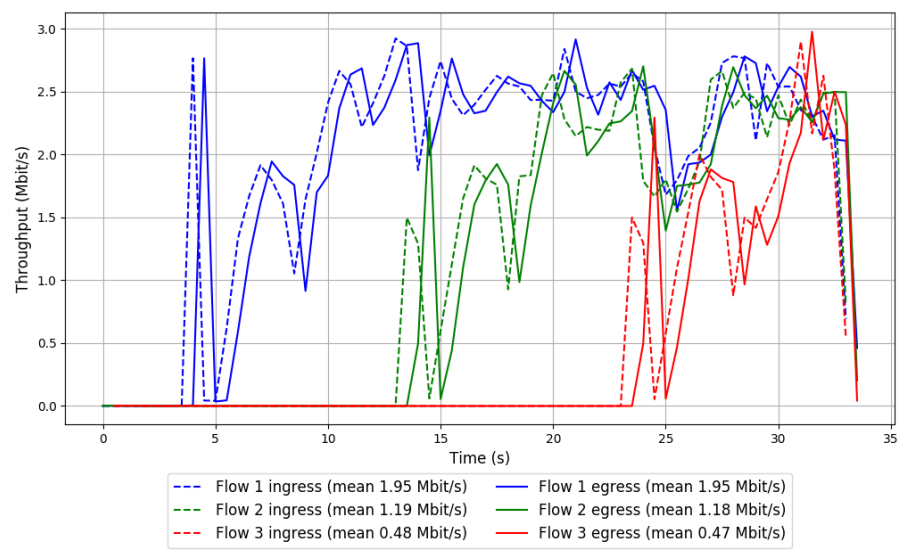


Run 2: Statistics of WebRTC media

Start at: 2018-08-11 21:13:05  
End at: 2018-08-11 21:13:35  
Local clock offset: 0.077 ms  
Remote clock offset: -0.126 ms

# Below is generated by plot.py at 2018-08-12 05:11:54  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 3.58 Mbit/s  
95th percentile per-packet one-way delay: 61.627 ms  
Loss rate: 0.75%  
-- Flow 1:  
Average throughput: 1.95 Mbit/s  
95th percentile per-packet one-way delay: 61.661 ms  
Loss rate: 0.36%  
-- Flow 2:  
Average throughput: 1.18 Mbit/s  
95th percentile per-packet one-way delay: 61.583 ms  
Loss rate: 1.01%  
-- Flow 3:  
Average throughput: 0.47 Mbit/s  
95th percentile per-packet one-way delay: 61.306 ms  
Loss rate: 1.70%

Run 2: Report of WebRTC media — Data Link

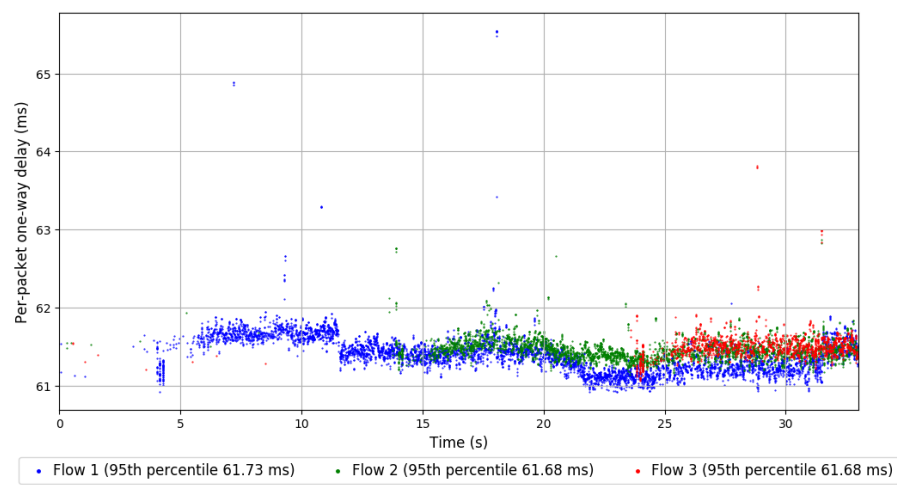
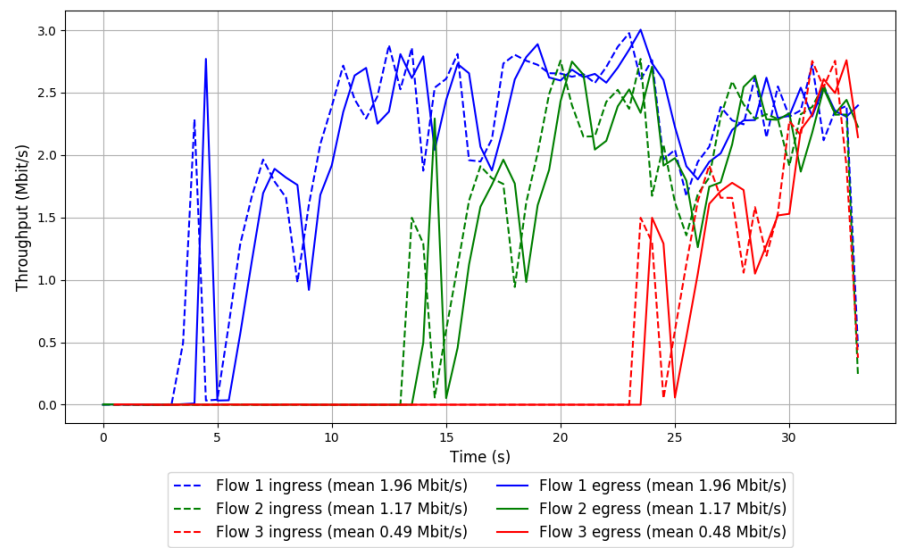


Run 3: Statistics of WebRTC media

Start at: 2018-08-11 21:39:46  
End at: 2018-08-11 21:40:16  
Local clock offset: -0.098 ms  
Remote clock offset: -0.311 ms

# Below is generated by plot.py at 2018-08-12 05:11:54  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 3.59 Mbit/s  
95th percentile per-packet one-way delay: 61.712 ms  
Loss rate: 0.74%  
-- Flow 1:  
Average throughput: 1.96 Mbit/s  
95th percentile per-packet one-way delay: 61.732 ms  
Loss rate: 0.53%  
-- Flow 2:  
Average throughput: 1.17 Mbit/s  
95th percentile per-packet one-way delay: 61.678 ms  
Loss rate: 0.88%  
-- Flow 3:  
Average throughput: 0.48 Mbit/s  
95th percentile per-packet one-way delay: 61.676 ms  
Loss rate: 1.27%

Run 3: Report of WebRTC media — Data Link

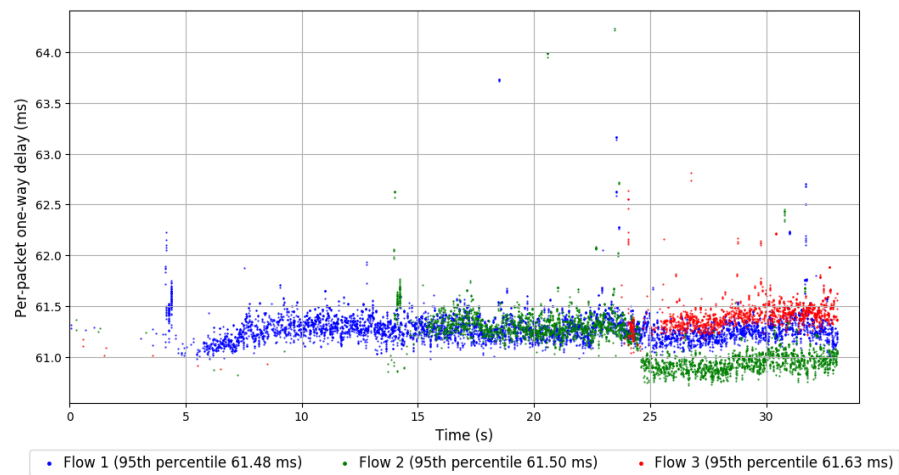
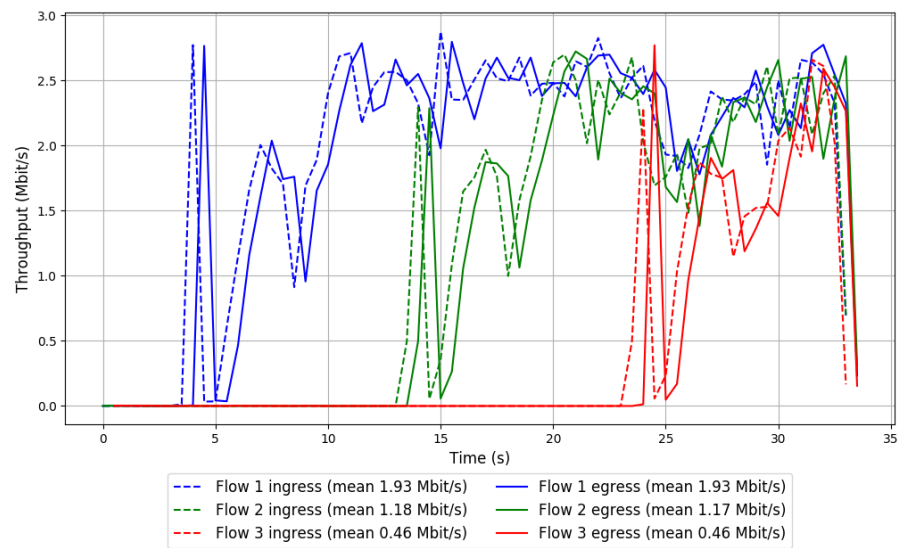


Run 4: Statistics of WebRTC media

Start at: 2018-08-11 22:06:25  
End at: 2018-08-11 22:06:55  
Local clock offset: -0.056 ms  
Remote clock offset: -0.052 ms

```
# Below is generated by plot.py at 2018-08-12 05:11:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.55 Mbit/s
95th percentile per-packet one-way delay: 61.514 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 1.93 Mbit/s
95th percentile per-packet one-way delay: 61.475 ms
Loss rate: 0.54%
-- Flow 2:
Average throughput: 1.17 Mbit/s
95th percentile per-packet one-way delay: 61.497 ms
Loss rate: 0.90%
-- Flow 3:
Average throughput: 0.46 Mbit/s
95th percentile per-packet one-way delay: 61.627 ms
Loss rate: 0.55%
```

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-08-11 22:33:32

End at: 2018-08-11 22:34:02

Local clock offset: 0.05 ms

Remote clock offset: 1.276 ms

# Below is generated by plot.py at 2018-08-12 05:11:54

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.61 Mbit/s

95th percentile per-packet one-way delay: 60.231 ms

Loss rate: 0.68%

-- Flow 1:

Average throughput: 1.95 Mbit/s

95th percentile per-packet one-way delay: 60.246 ms

Loss rate: 0.64%

-- Flow 2:

Average throughput: 1.19 Mbit/s

95th percentile per-packet one-way delay: 60.225 ms

Loss rate: 0.76%

-- Flow 3:

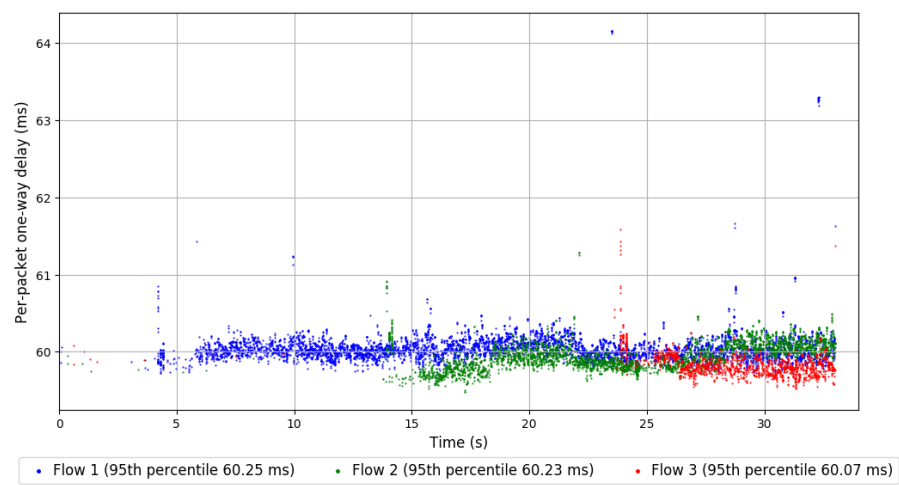
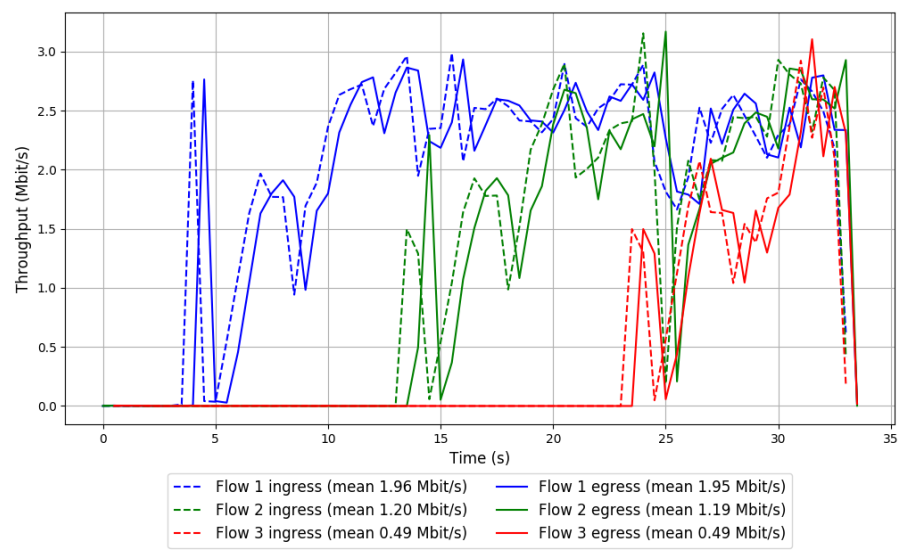
Average throughput: 0.49 Mbit/s

95th percentile per-packet one-way delay: 60.074 ms

Loss rate: 0.63%



Run 5: Report of WebRTC media — Data Link

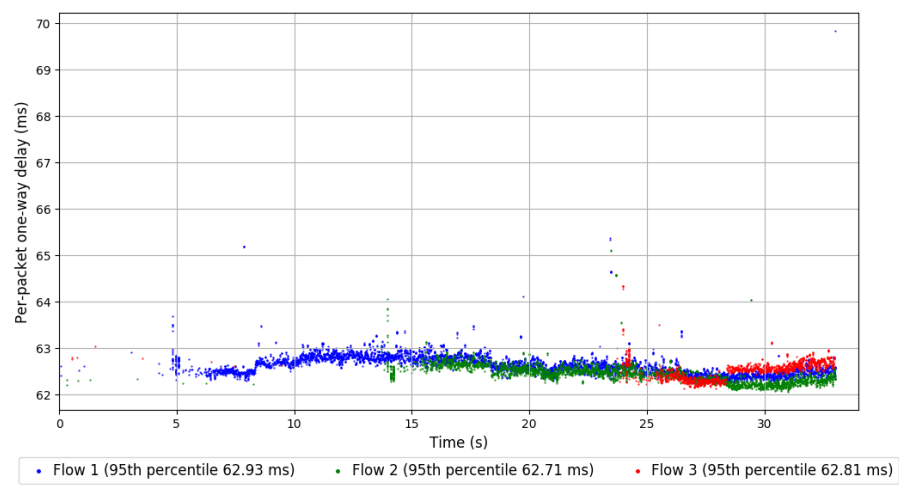
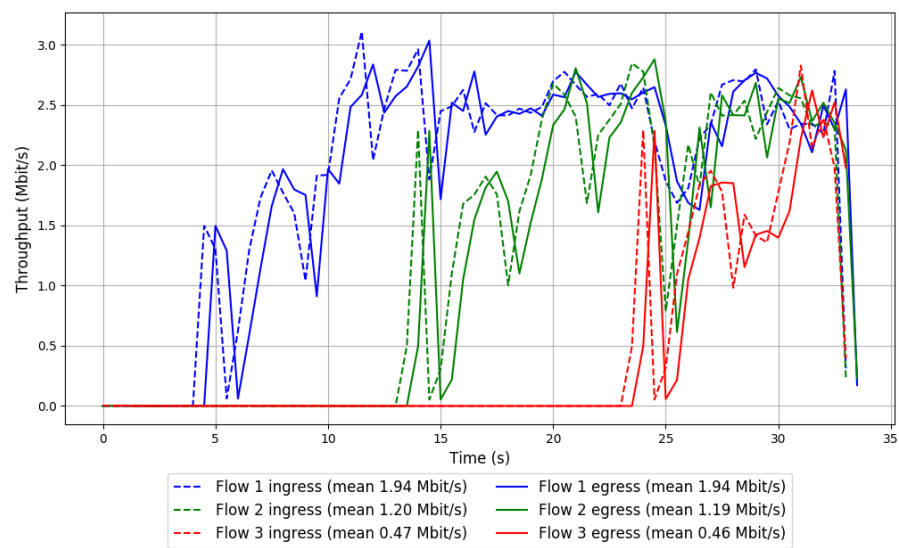


Run 6: Statistics of WebRTC media

Start at: 2018-08-11 23:00:32  
End at: 2018-08-11 23:01:02  
Local clock offset: -0.042 ms  
Remote clock offset: -1.292 ms

# Below is generated by plot.py at 2018-08-12 05:11:54  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 3.57 Mbit/s  
95th percentile per-packet one-way delay: 62.891 ms  
Loss rate: 0.68%  
-- Flow 1:  
Average throughput: 1.94 Mbit/s  
95th percentile per-packet one-way delay: 62.933 ms  
Loss rate: 0.41%  
-- Flow 2:  
Average throughput: 1.19 Mbit/s  
95th percentile per-packet one-way delay: 62.714 ms  
Loss rate: 0.54%  
-- Flow 3:  
Average throughput: 0.46 Mbit/s  
95th percentile per-packet one-way delay: 62.810 ms  
Loss rate: 2.17%

Run 6: Report of WebRTC media — Data Link

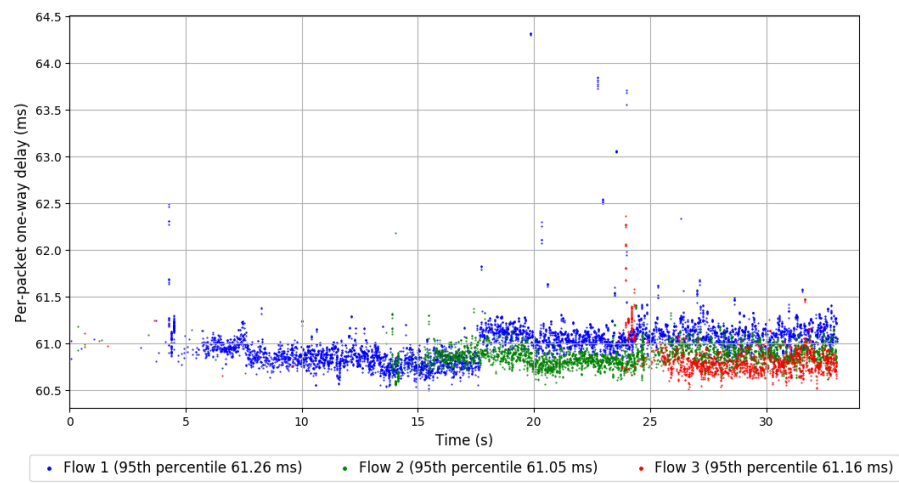
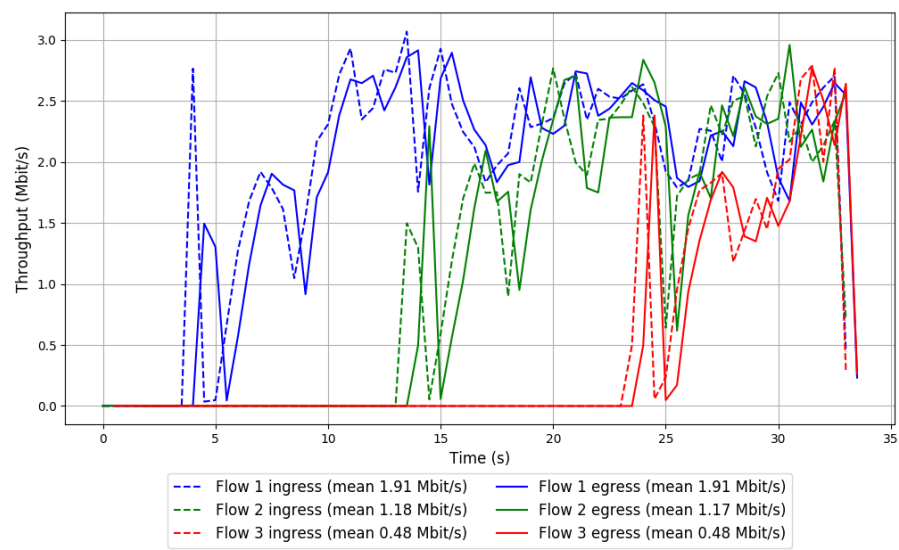


Run 7: Statistics of WebRTC media

Start at: 2018-08-11 23:27:22  
End at: 2018-08-11 23:27:52  
Local clock offset: -0.024 ms  
Remote clock offset: 0.311 ms

# Below is generated by plot.py at 2018-08-12 05:11:54  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 3.54 Mbit/s  
95th percentile per-packet one-way delay: 61.218 ms  
Loss rate: 0.73%  
-- Flow 1:  
Average throughput: 1.91 Mbit/s  
95th percentile per-packet one-way delay: 61.257 ms  
Loss rate: 0.47%  
-- Flow 2:  
Average throughput: 1.17 Mbit/s  
95th percentile per-packet one-way delay: 61.053 ms  
Loss rate: 0.91%  
-- Flow 3:  
Average throughput: 0.48 Mbit/s  
95th percentile per-packet one-way delay: 61.165 ms  
Loss rate: 1.35%

Run 7: Report of WebRTC media — Data Link

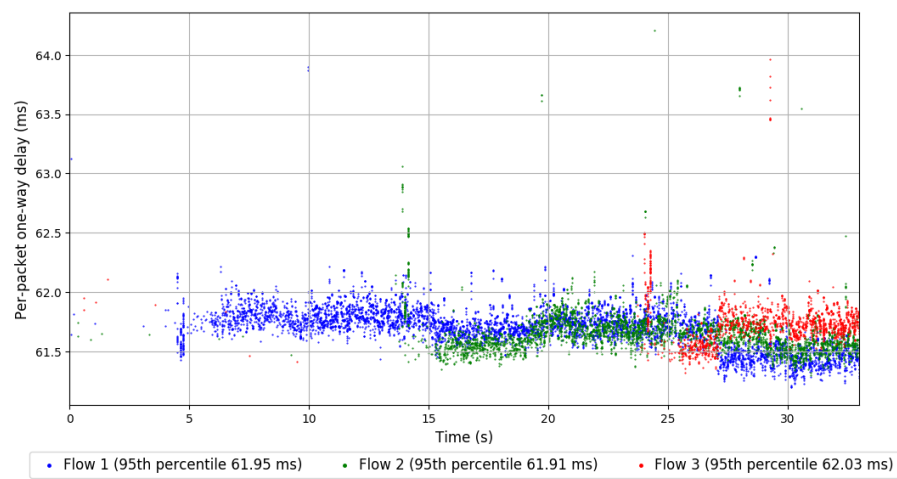
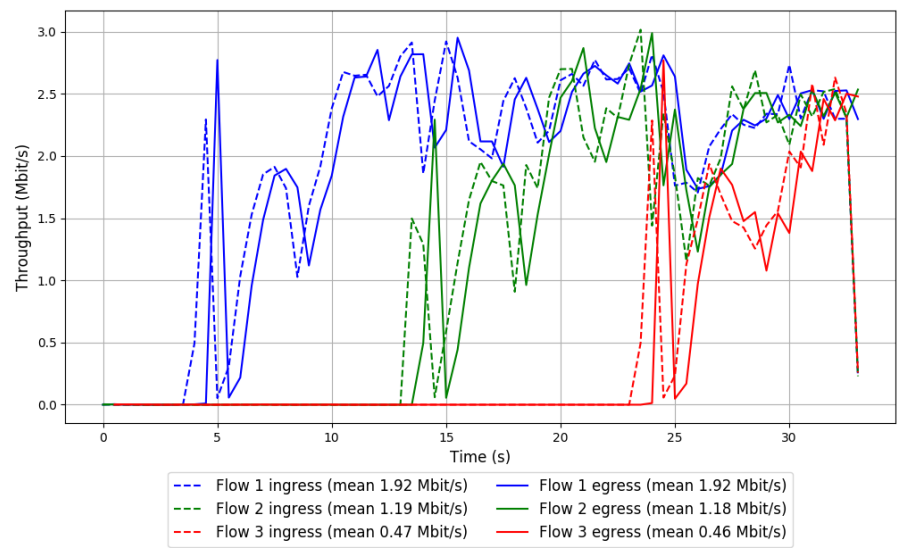


Run 8: Statistics of WebRTC media

Start at: 2018-08-11 23:54:11  
End at: 2018-08-11 23:54:41  
Local clock offset: -0.015 ms  
Remote clock offset: -0.42 ms

# Below is generated by plot.py at 2018-08-12 05:11:54  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 3.55 Mbit/s  
95th percentile per-packet one-way delay: 61.950 ms  
Loss rate: 0.61%  
-- Flow 1:  
Average throughput: 1.92 Mbit/s  
95th percentile per-packet one-way delay: 61.948 ms  
Loss rate: 0.36%  
-- Flow 2:  
Average throughput: 1.18 Mbit/s  
95th percentile per-packet one-way delay: 61.909 ms  
Loss rate: 0.59%  
-- Flow 3:  
Average throughput: 0.46 Mbit/s  
95th percentile per-packet one-way delay: 62.027 ms  
Loss rate: 1.70%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-08-12 00:21:02

End at: 2018-08-12 00:21:32

Local clock offset: -0.087 ms

Remote clock offset: 1.498 ms

# Below is generated by plot.py at 2018-08-12 05:11:54

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.55 Mbit/s

95th percentile per-packet one-way delay: 60.089 ms

Loss rate: 0.66%

-- Flow 1:

Average throughput: 1.92 Mbit/s

95th percentile per-packet one-way delay: 60.127 ms

Loss rate: 0.55%

-- Flow 2:

Average throughput: 1.18 Mbit/s

95th percentile per-packet one-way delay: 59.888 ms

Loss rate: 0.61%

-- Flow 3:

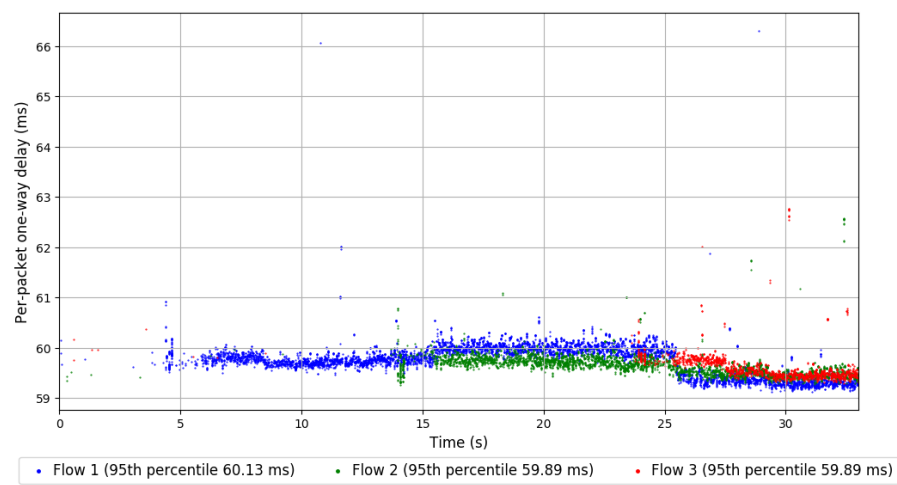
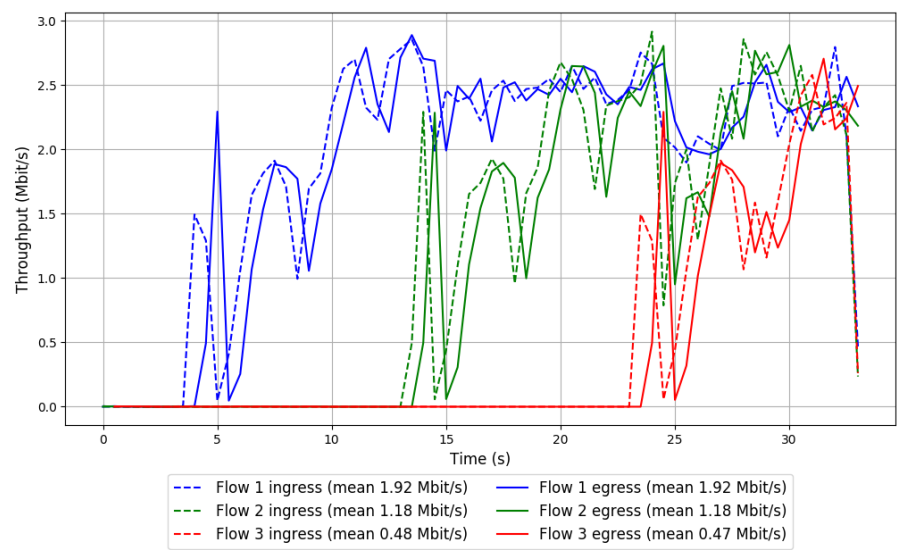
Average throughput: 0.47 Mbit/s

95th percentile per-packet one-way delay: 59.888 ms

Loss rate: 1.27%



Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-08-12 00:47:41  
End at: 2018-08-12 00:48:11  
Local clock offset: -0.043 ms  
Remote clock offset: -0.123 ms

# Below is generated by plot.py at 2018-08-12 05:11:54  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 3.52 Mbit/s  
95th percentile per-packet one-way delay: 61.555 ms  
Loss rate: 0.73%  
-- Flow 1:  
Average throughput: 1.93 Mbit/s  
95th percentile per-packet one-way delay: 61.576 ms  
Loss rate: 0.37%  
-- Flow 2:  
Average throughput: 1.17 Mbit/s  
95th percentile per-packet one-way delay: 61.337 ms  
Loss rate: 0.91%  
-- Flow 3:  
Average throughput: 0.44 Mbit/s  
95th percentile per-packet one-way delay: 61.583 ms  
Loss rate: 1.80%

Run 10: Report of WebRTC media — Data Link

