

## Pantheon Report

Generated at 2018-07-01 22:54:30 (UTC).

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

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.

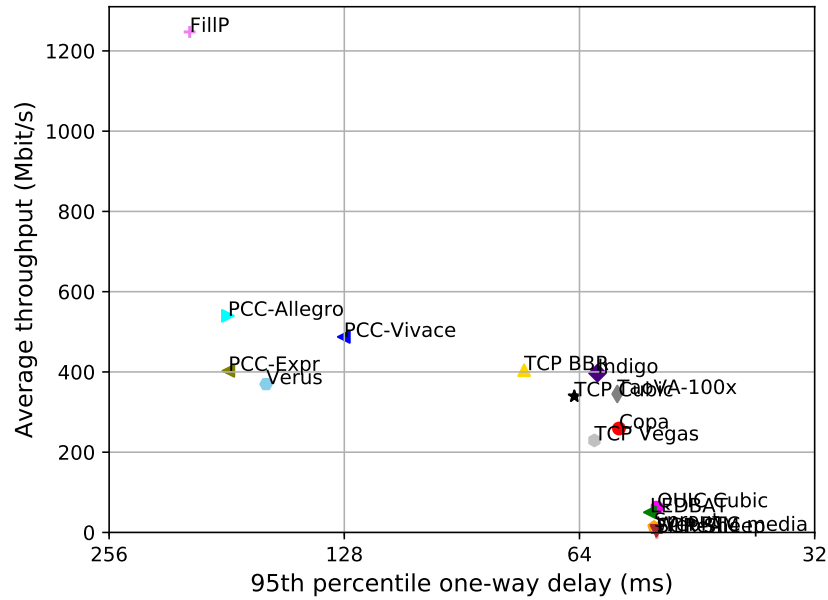
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

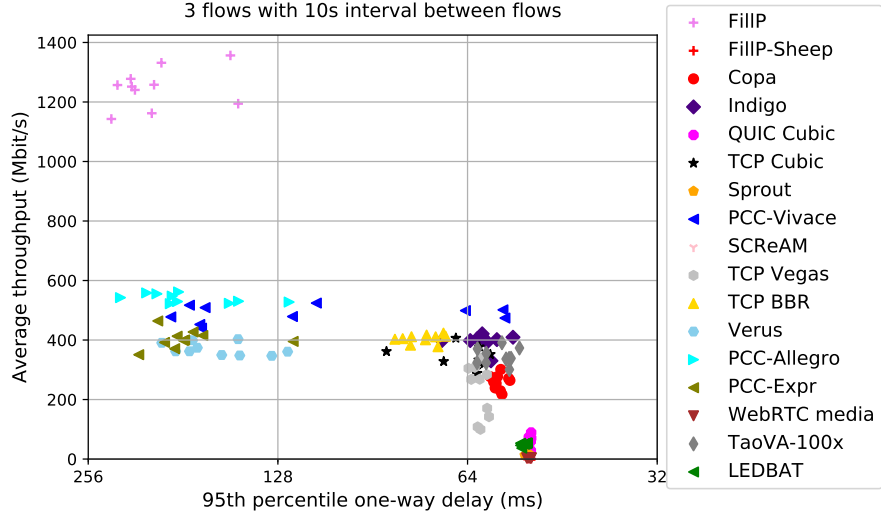
Git summary:

```
branch: master @ 715dc5f09d172e419699f6f17f1cb4c45064f212
third_party/fillp @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/fillp-sheep @ 30060ab034deb3424347f5cc3db86198eac35d2a
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf5e58e562f4
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-quick @ 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 London 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 London 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     | 207.74                 | 202.29 | 186.18 | 73.50                     | 75.40  | 77.65  | 0.04               | 0.07   | 0.20   |
| Copa         | 10     | 138.92                 | 125.44 | 113.01 | 56.35                     | 56.86  | 59.38  | 0.01               | 0.01   | 0.03   |
| TCP Cubic    | 10     | 180.84                 | 196.17 | 83.82  | 63.24                     | 65.20  | 62.92  | 0.06               | 0.06   | 0.12   |
| FillP        | 10     | 664.08                 | 652.05 | 449.40 | 194.96                    | 178.58 | 203.95 | 5.57               | 5.65   | 5.06   |
| FillP-Sheep  | 10     | 0.00                   | 0.00   | 0.00   | 50.89                     | 50.63  | 51.05  | 0.00               | 0.00   | 0.00   |
| Indigo       | 10     | 210.99                 | 203.69 | 157.45 | 59.80                     | 61.08  | 61.61  | 0.02               | 0.03   | 0.05   |
| LEDBAT       | 10     | 32.06                  | 21.81  | 10.96  | 52.10                     | 51.92  | 51.45  | 0.00               | 0.02   | 0.00   |
| PCC-Allegro  | 10     | 489.85                 | 53.12  | 44.54  | 181.56                    | 160.42 | 145.79 | 1.57               | 1.18   | 0.49   |
| PCC-Expr     | 10     | 238.91                 | 211.49 | 69.92  | 185.37                    | 163.65 | 123.76 | 1.87               | 2.21   | 2.86   |
| QUIC Cubic   | 10     | 35.37                  | 30.73  | 21.48  | 50.72                     | 50.95  | 50.79  | 0.00               | 0.00   | 0.00   |
| SCReAM       | 10     | 0.22                   | 0.22   | 0.22   | 50.97                     | 50.88  | 50.82  | 0.00               | 0.00   | 0.00   |
| Sprout       | 10     | 7.14                   | 6.72   | 5.90   | 51.40                     | 51.36  | 51.32  | 0.00               | 0.00   | 0.01   |
| TaoVA-100x   | 10     | 185.19                 | 175.12 | 130.26 | 55.71                     | 58.16  | 57.96  | 0.02               | 0.03   | 0.03   |
| TCP Vegas    | 10     | 125.99                 | 90.66  | 129.46 | 58.56                     | 58.87  | 59.61  | 0.06               | 0.17   | 0.09   |
| Verus        | 10     | 215.99                 | 167.04 | 132.85 | 151.03                    | 162.00 | 190.05 | 0.89               | 0.66   | 1.94   |
| PCC-Vivace   | 10     | 278.59                 | 250.14 | 128.30 | 108.27                    | 113.42 | 72.67  | 0.16               | 0.17   | 0.48   |
| WebRTC media | 10     | 2.08                   | 1.33   | 0.55   | 50.98                     | 50.89  | 50.81  | 0.00               | 0.00   | 0.00   |

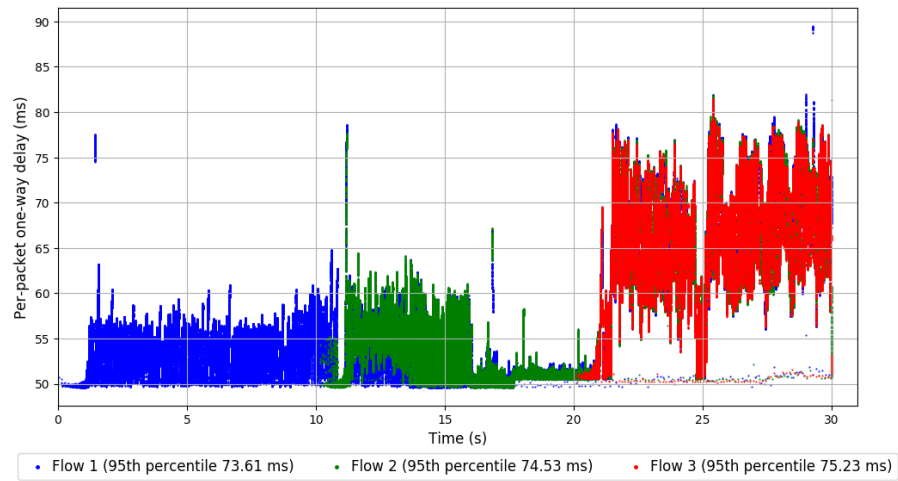
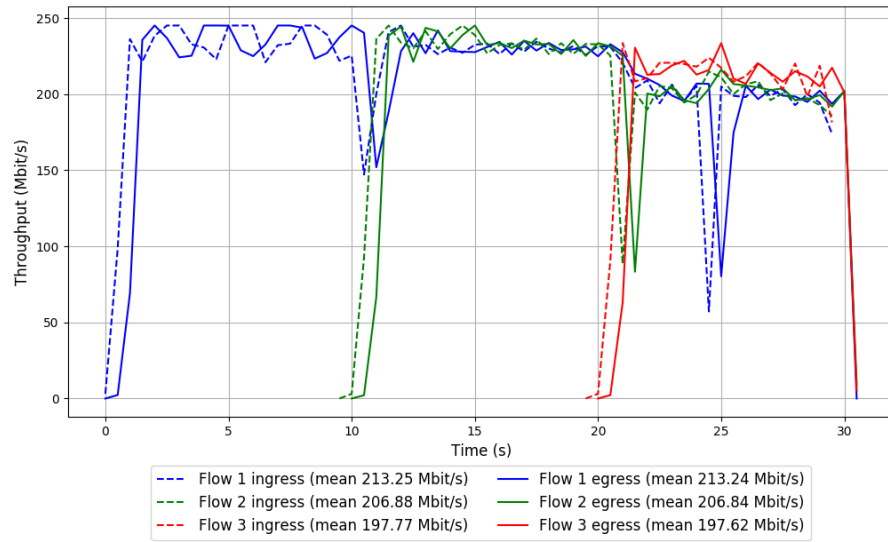
Run 1: Statistics of TCP BBR

Start at: 2018-07-01 16:31:32  
End at: 2018-07-01 16:32:02  
Local clock offset: 0.033 ms  
Remote clock offset: -0.019 ms

# Below is generated by plot.py at 2018-07-01 20:48:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 416.80 Mbit/s  
95th percentile per-packet one-way delay: 74.331 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 213.24 Mbit/s  
95th percentile per-packet one-way delay: 73.612 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 206.84 Mbit/s  
95th percentile per-packet one-way delay: 74.530 ms  
Loss rate: 0.01%  
-- Flow 3:  
Average throughput: 197.62 Mbit/s  
95th percentile per-packet one-way delay: 75.229 ms  
Loss rate: 0.07%



# Run 1: Report of TCP BBR — Data Link

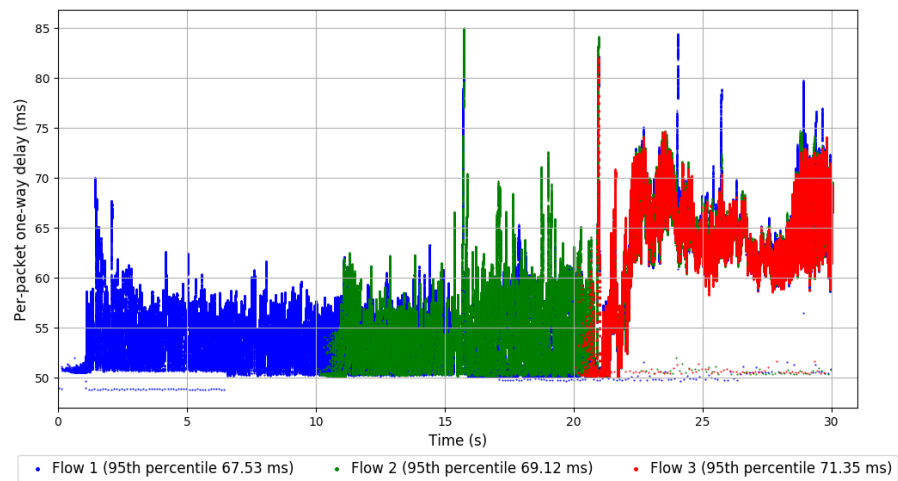
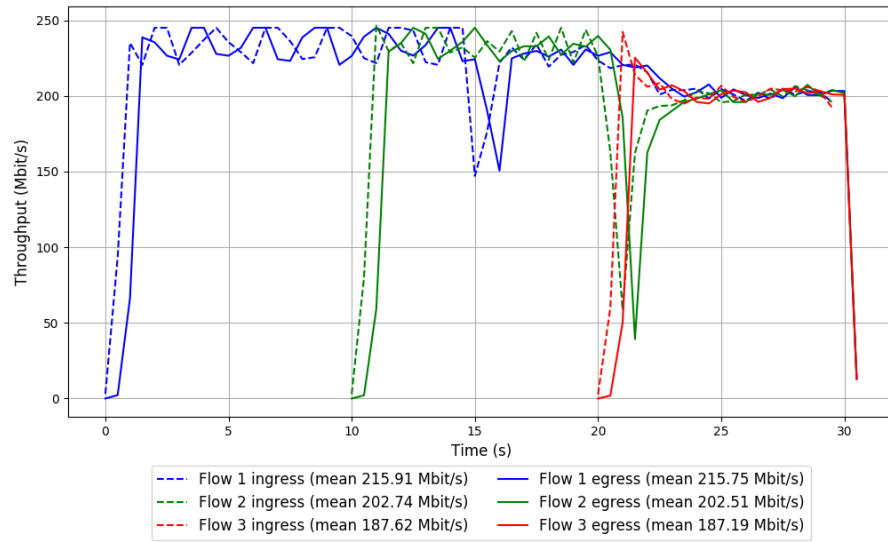


Run 2: Statistics of TCP BBR

Start at: 2018-07-01 16:55:44  
End at: 2018-07-01 16:56:14  
Local clock offset: 0.112 ms  
Remote clock offset: -0.002 ms

# Below is generated by plot.py at 2018-07-01 20:48:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 412.81 Mbit/s  
95th percentile per-packet one-way delay: 69.347 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 215.75 Mbit/s  
95th percentile per-packet one-way delay: 67.527 ms  
Loss rate: 0.05%  
-- Flow 2:  
Average throughput: 202.51 Mbit/s  
95th percentile per-packet one-way delay: 69.117 ms  
Loss rate: 0.08%  
-- Flow 3:  
Average throughput: 187.19 Mbit/s  
95th percentile per-packet one-way delay: 71.349 ms  
Loss rate: 0.25%

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

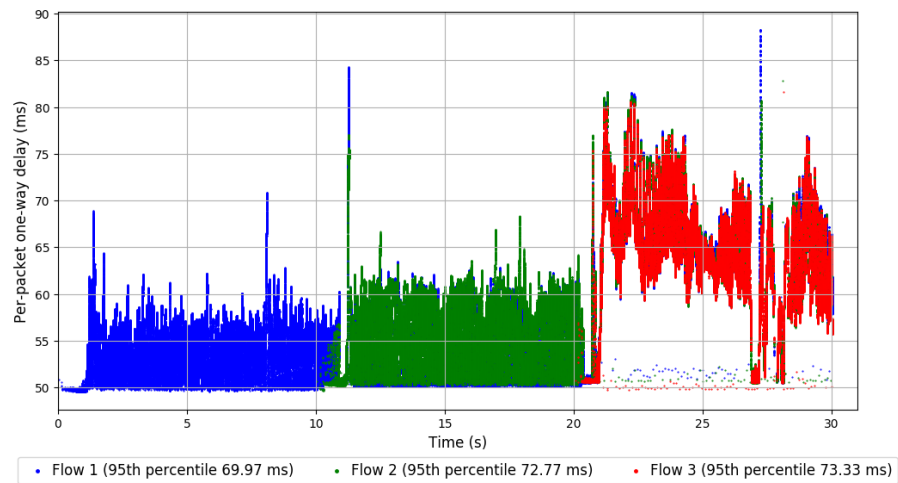
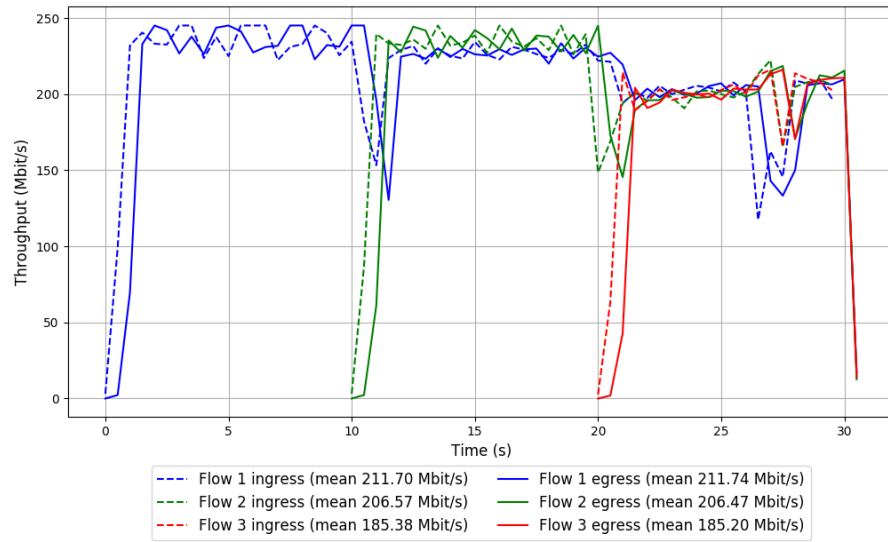


Run 3: Statistics of TCP BBR

Start at: 2018-07-01 17:20:00  
End at: 2018-07-01 17:20:30  
Local clock offset: 0.091 ms  
Remote clock offset: -0.003 ms

# Below is generated by plot.py at 2018-07-01 20:48:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 410.88 Mbit/s  
95th percentile per-packet one-way delay: 71.923 ms  
Loss rate: 0.04%  
-- Flow 1:  
Average throughput: 211.74 Mbit/s  
95th percentile per-packet one-way delay: 69.969 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 206.47 Mbit/s  
95th percentile per-packet one-way delay: 72.771 ms  
Loss rate: 0.05%  
-- Flow 3:  
Average throughput: 185.20 Mbit/s  
95th percentile per-packet one-way delay: 73.327 ms  
Loss rate: 0.09%

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



Run 4: Statistics of TCP BBR

Start at: 2018-07-01 17:43:59

End at: 2018-07-01 17:44:29

Local clock offset: 0.123 ms

Remote clock offset: -0.01 ms

# Below is generated by plot.py at 2018-07-01 20:48:49

# Datalink statistics

-- Total of 3 flows:

Average throughput: 382.76 Mbit/s

95th percentile per-packet one-way delay: 78.839 ms

Loss rate: 0.14%

-- Flow 1:

Average throughput: 192.34 Mbit/s

95th percentile per-packet one-way delay: 77.006 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 197.78 Mbit/s

95th percentile per-packet one-way delay: 78.631 ms

Loss rate: 0.11%

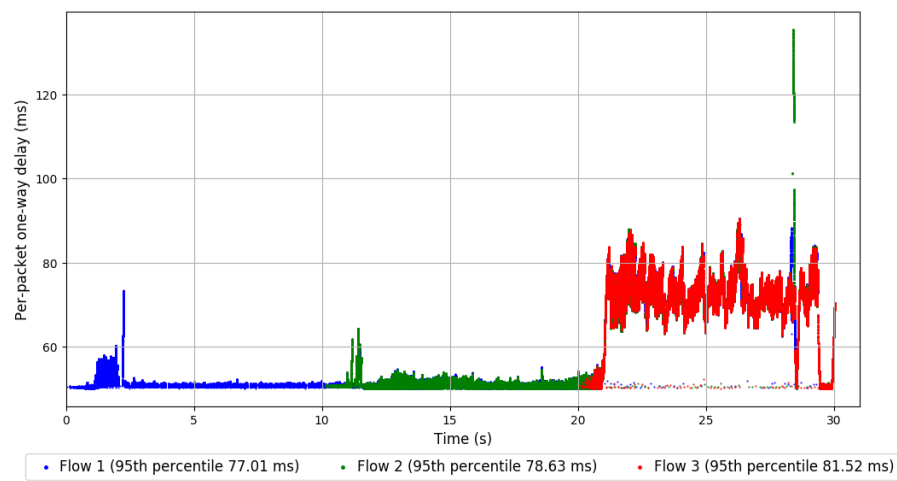
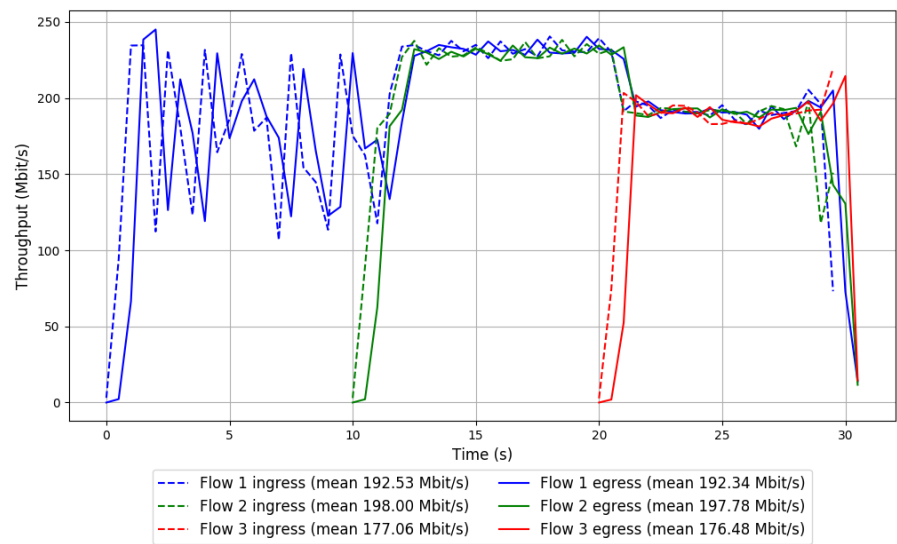
-- Flow 3:

Average throughput: 176.48 Mbit/s

95th percentile per-packet one-way delay: 81.519 ms

Loss rate: 0.32%

Run 4: Report of TCP BBR — Data Link



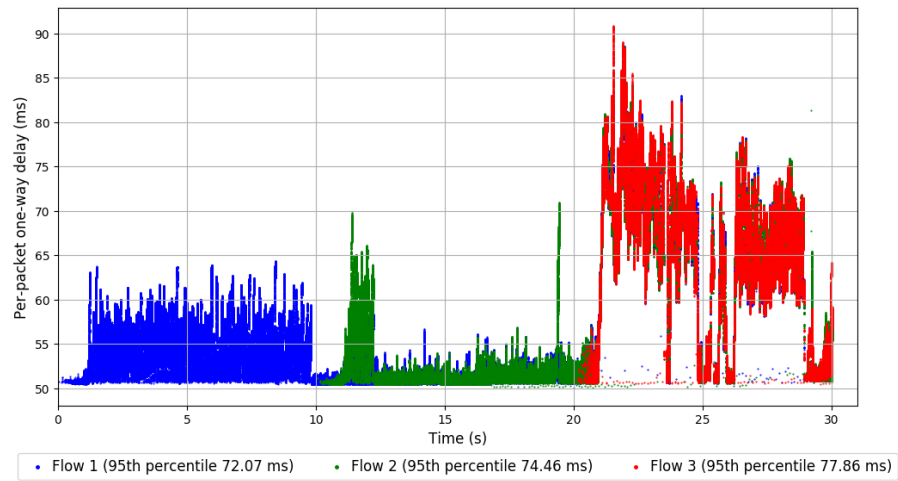
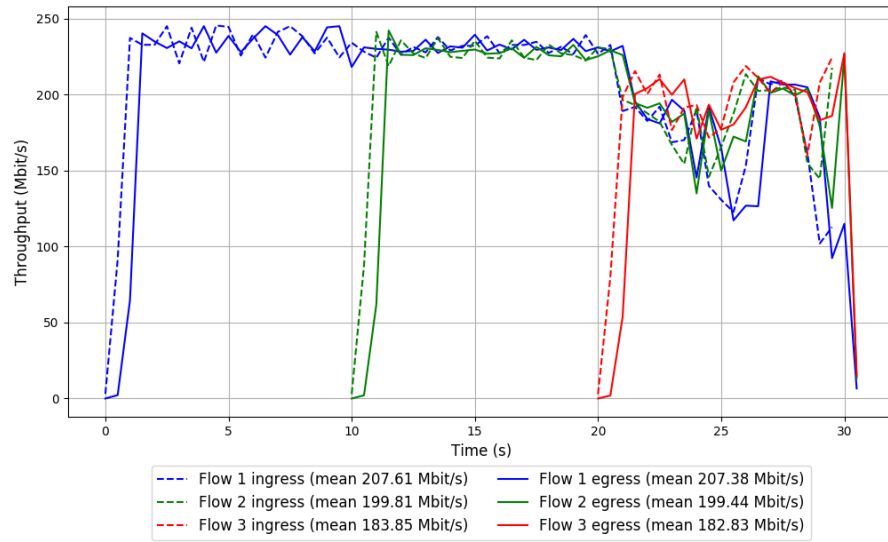
Run 5: Statistics of TCP BBR

Start at: 2018-07-01 18:08:03  
End at: 2018-07-01 18:08:33  
Local clock offset: 0.091 ms  
Remote clock offset: -0.171 ms

# Below is generated by plot.py at 2018-07-01 20:48:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 400.93 Mbit/s  
95th percentile per-packet one-way delay: 74.649 ms  
Loss rate: 0.19%  
-- Flow 1:  
Average throughput: 207.38 Mbit/s  
95th percentile per-packet one-way delay: 72.067 ms  
Loss rate: 0.11%  
-- Flow 2:  
Average throughput: 199.44 Mbit/s  
95th percentile per-packet one-way delay: 74.464 ms  
Loss rate: 0.16%  
-- Flow 3:  
Average throughput: 182.83 Mbit/s  
95th percentile per-packet one-way delay: 77.856 ms  
Loss rate: 0.55%



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



Run 6: Statistics of TCP BBR

Start at: 2018-07-01 18:32:02

End at: 2018-07-01 18:32:32

Local clock offset: 0.023 ms

Remote clock offset: -0.04 ms

# Below is generated by plot.py at 2018-07-01 20:48:49

# Datalink statistics

-- Total of 3 flows:

Average throughput: 402.72 Mbit/s

95th percentile per-packet one-way delay: 83.463 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 209.69 Mbit/s

95th percentile per-packet one-way delay: 80.647 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 200.24 Mbit/s

95th percentile per-packet one-way delay: 82.985 ms

Loss rate: 0.03%

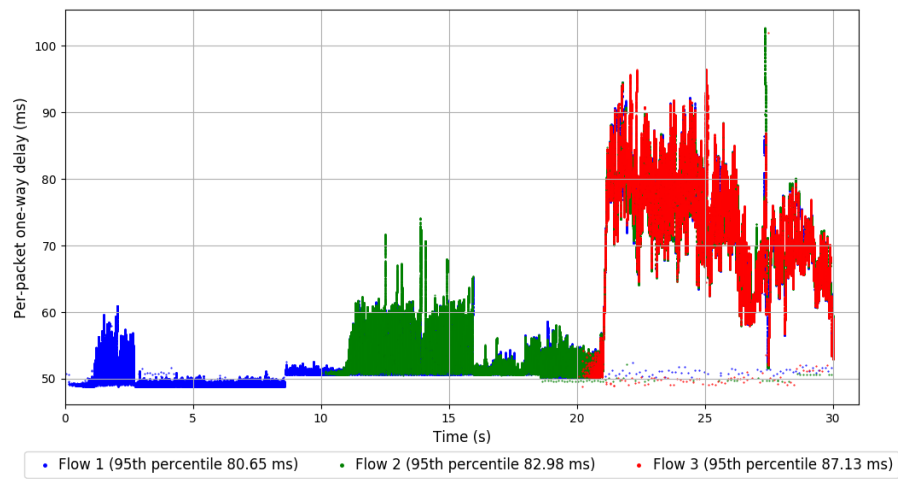
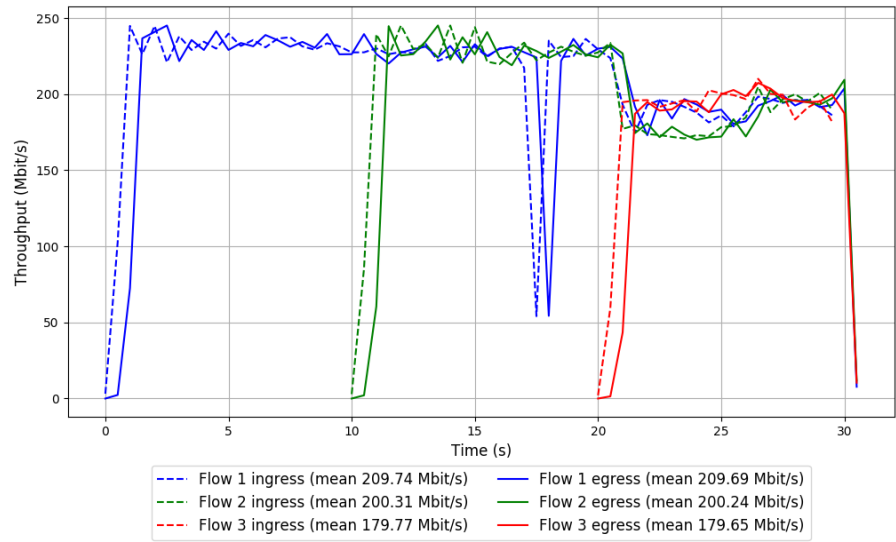
-- Flow 3:

Average throughput: 179.65 Mbit/s

95th percentile per-packet one-way delay: 87.132 ms

Loss rate: 0.05%

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

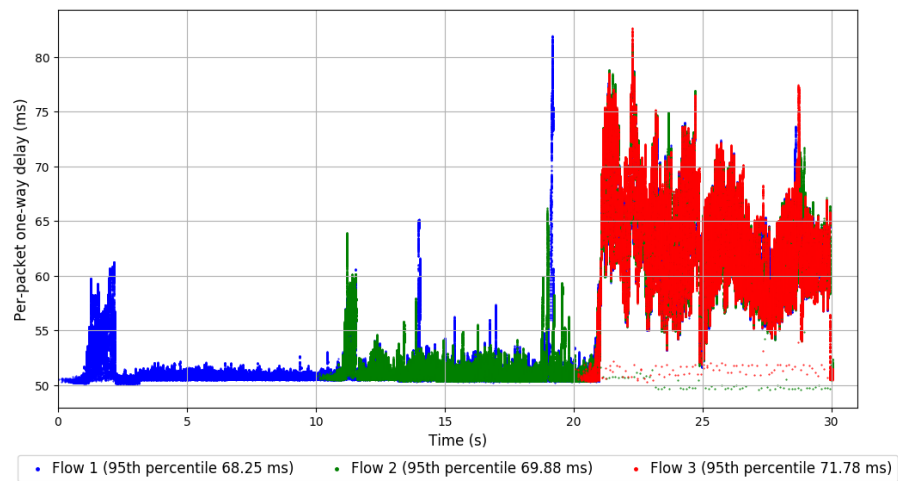
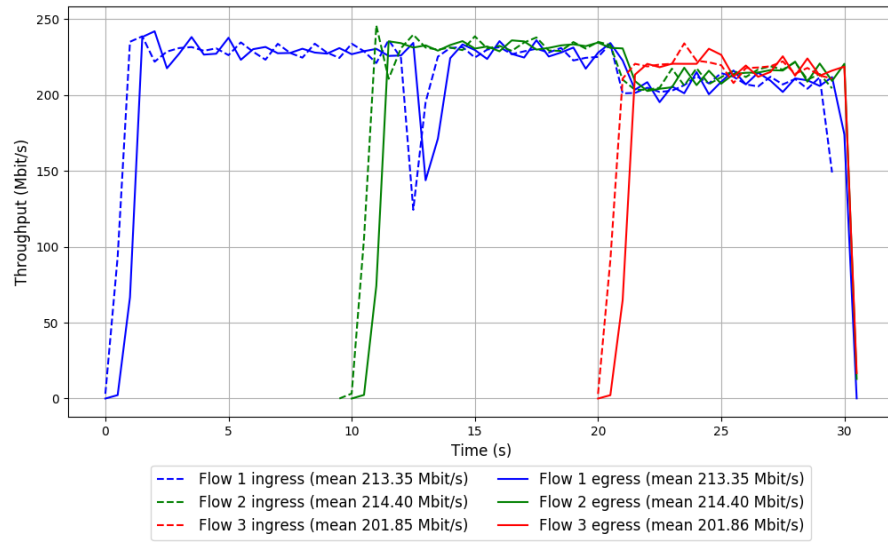


Run 7: Statistics of TCP BBR

Start at: 2018-07-01 18:56:07  
End at: 2018-07-01 18:56:37  
Local clock offset: 0.016 ms  
Remote clock offset: -0.083 ms

# Below is generated by plot.py at 2018-07-01 20:49:00  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 423.32 Mbit/s  
95th percentile per-packet one-way delay: 69.887 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 213.35 Mbit/s  
95th percentile per-packet one-way delay: 68.253 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 214.40 Mbit/s  
95th percentile per-packet one-way delay: 69.881 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 201.86 Mbit/s  
95th percentile per-packet one-way delay: 71.782 ms  
Loss rate: 0.00%

# Run 7: Report of TCP BBR — Data Link

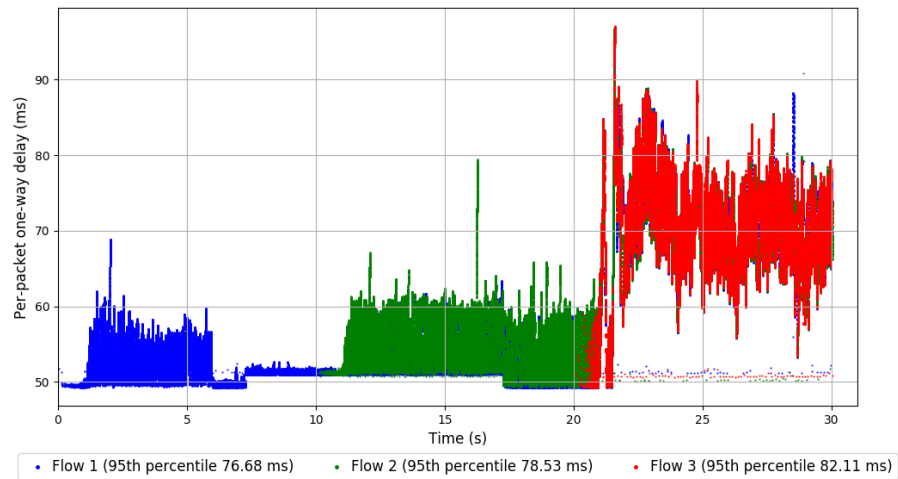
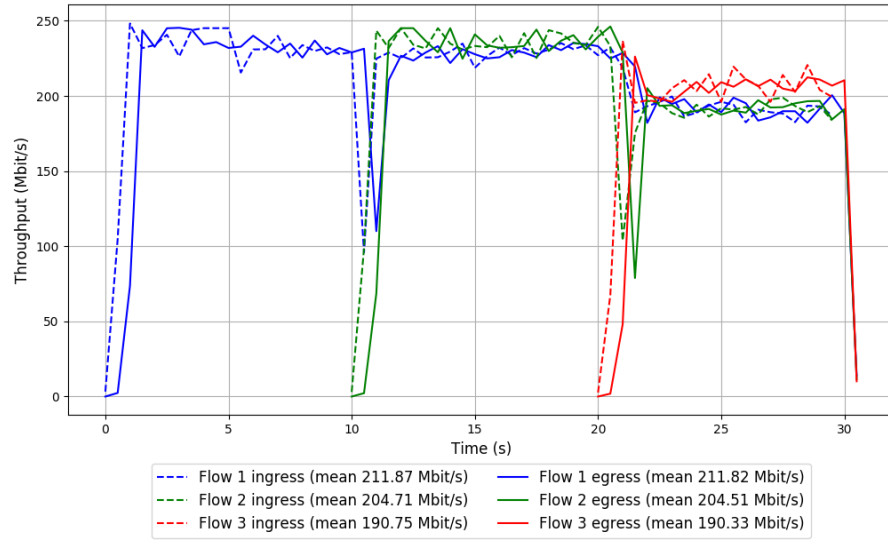


Run 8: Statistics of TCP BBR

Start at: 2018-07-01 19:20:03  
End at: 2018-07-01 19:20:33  
Local clock offset: -0.276 ms  
Remote clock offset: -0.068 ms

# Below is generated by plot.py at 2018-07-01 20:49:00  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 411.15 Mbit/s  
95th percentile per-packet one-way delay: 78.553 ms  
Loss rate: 0.10%  
-- Flow 1:  
Average throughput: 211.82 Mbit/s  
95th percentile per-packet one-way delay: 76.676 ms  
Loss rate: 0.04%  
-- Flow 2:  
Average throughput: 204.51 Mbit/s  
95th percentile per-packet one-way delay: 78.527 ms  
Loss rate: 0.09%  
-- Flow 3:  
Average throughput: 190.33 Mbit/s  
95th percentile per-packet one-way delay: 82.105 ms  
Loss rate: 0.30%

## Run 8: Report of TCP BBR — Data Link



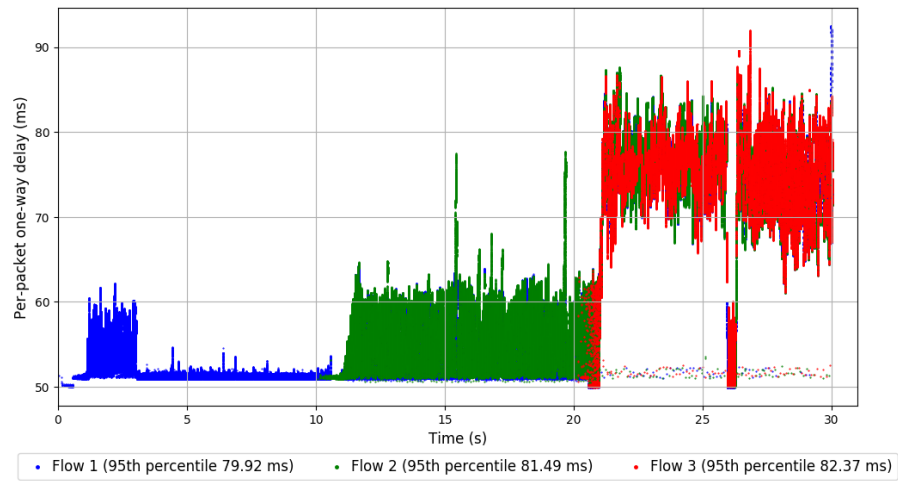
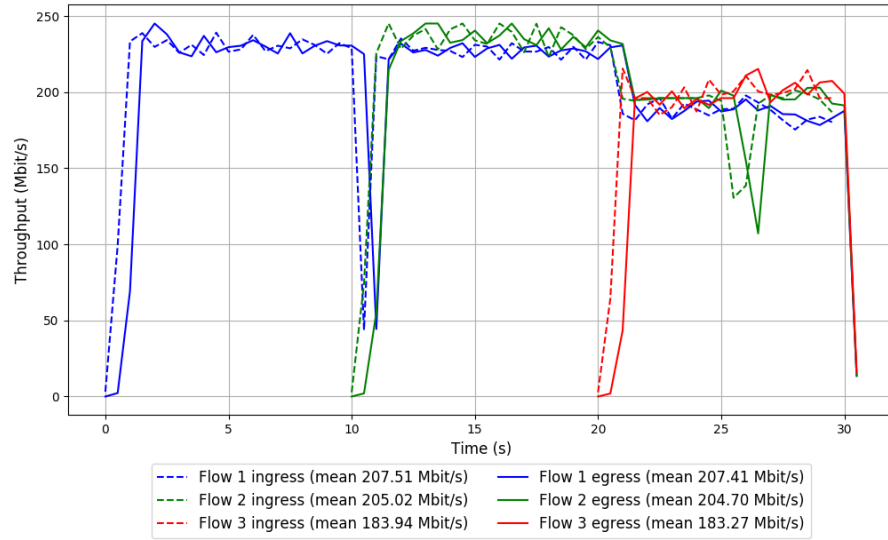
Run 9: Statistics of TCP BBR

Start at: 2018-07-01 19:44:20  
End at: 2018-07-01 19:44:50  
Local clock offset: -0.232 ms  
Remote clock offset: -0.018 ms

# Below is generated by plot.py at 2018-07-01 20:54:46  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 404.75 Mbit/s  
95th percentile per-packet one-way delay: 81.120 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 207.41 Mbit/s  
95th percentile per-packet one-way delay: 79.922 ms  
Loss rate: 0.05%  
-- Flow 2:  
Average throughput: 204.70 Mbit/s  
95th percentile per-packet one-way delay: 81.488 ms  
Loss rate: 0.10%  
-- Flow 3:  
Average throughput: 183.27 Mbit/s  
95th percentile per-packet one-way delay: 82.371 ms  
Loss rate: 0.23%



### Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-07-01 20:08:36

End at: 2018-07-01 20:09:06

Local clock offset: 0.124 ms

Remote clock offset: 0.003 ms

# Below is generated by plot.py at 2018-07-01 20:54:46

# Datalink statistics

-- Total of 3 flows:

Average throughput: 377.56 Mbit/s

95th percentile per-packet one-way delay: 71.292 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 194.71 Mbit/s

95th percentile per-packet one-way delay: 69.291 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 186.00 Mbit/s

95th percentile per-packet one-way delay: 71.564 ms

Loss rate: 0.08%

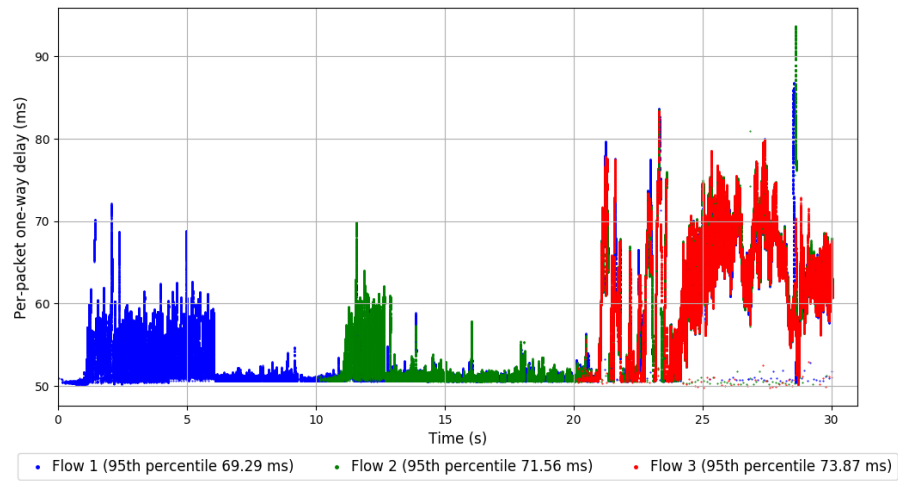
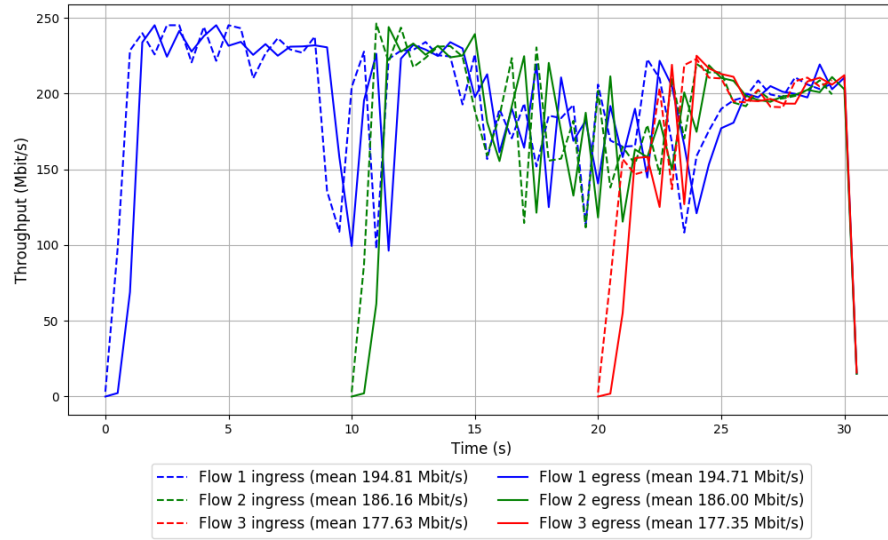
-- Flow 3:

Average throughput: 177.35 Mbit/s

95th percentile per-packet one-way delay: 73.874 ms

Loss rate: 0.15%

# Run 10: Report of TCP BBR — Data Link

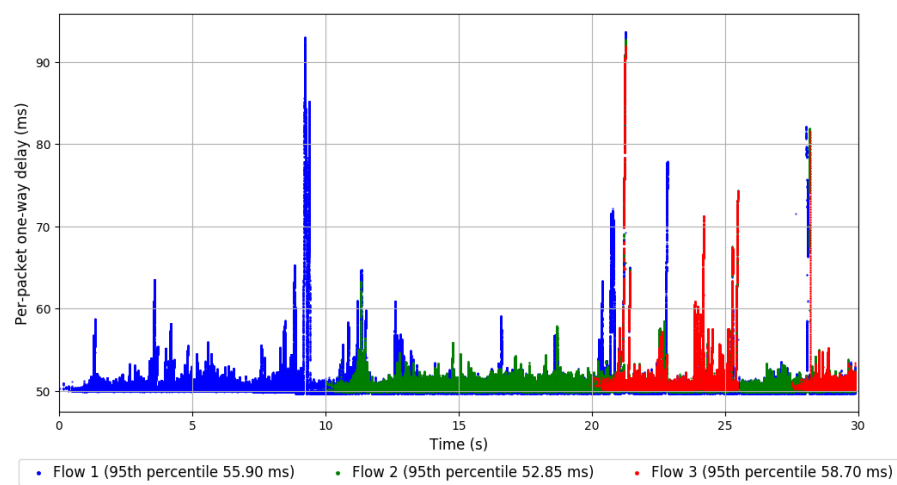
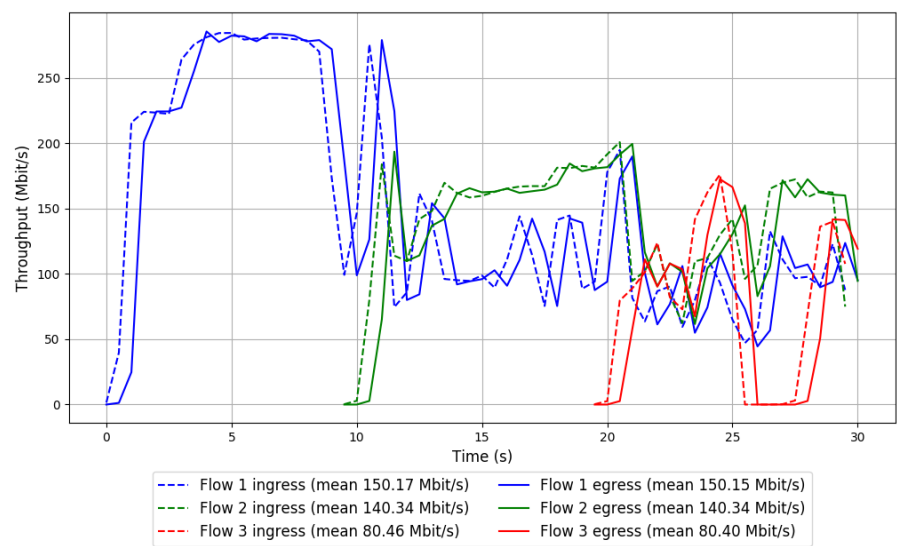


Run 1: Statistics of Copa

Start at: 2018-07-01 16:30:01  
End at: 2018-07-01 16:30:31  
Local clock offset: 0.454 ms  
Remote clock offset: -0.025 ms

# Below is generated by plot.py at 2018-07-01 20:56:21  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 270.92 Mbit/s  
95th percentile per-packet one-way delay: 55.071 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 150.15 Mbit/s  
95th percentile per-packet one-way delay: 55.895 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 140.34 Mbit/s  
95th percentile per-packet one-way delay: 52.855 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 80.40 Mbit/s  
95th percentile per-packet one-way delay: 58.704 ms  
Loss rate: 0.08%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-07-01 16:54:14

End at: 2018-07-01 16:54:44

Local clock offset: -0.253 ms

Remote clock offset: 0.013 ms

# Below is generated by plot.py at 2018-07-01 20:56:21

# Datalink statistics

-- Total of 3 flows:

Average throughput: 259.33 Mbit/s

95th percentile per-packet one-way delay: 58.169 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 135.27 Mbit/s

95th percentile per-packet one-way delay: 58.965 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 124.47 Mbit/s

95th percentile per-packet one-way delay: 57.932 ms

Loss rate: 0.04%

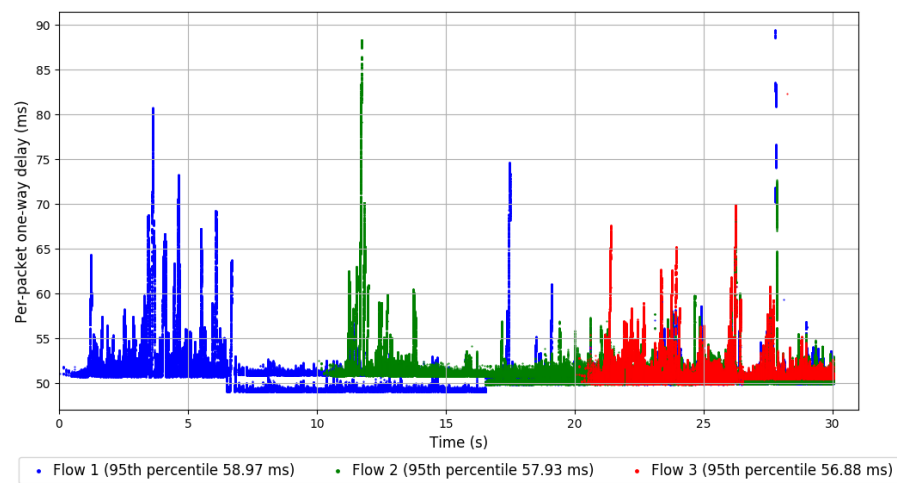
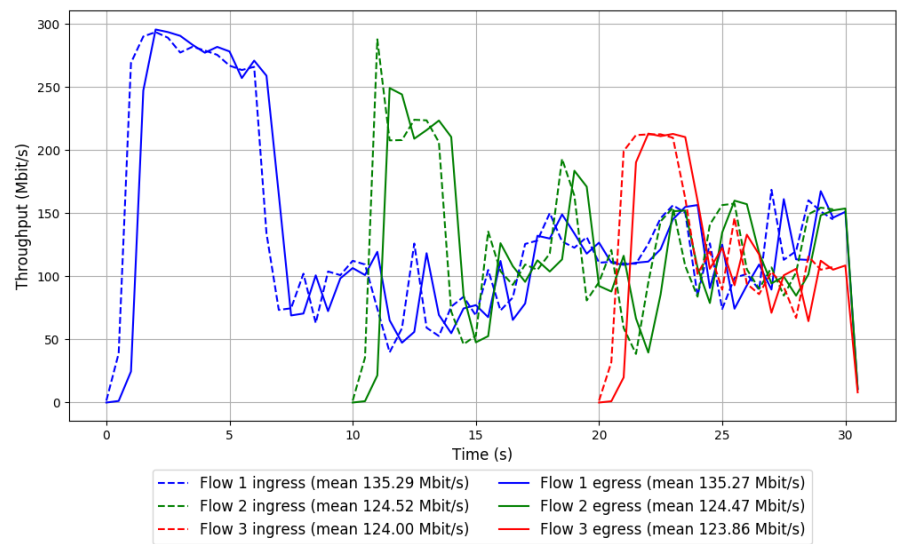
-- Flow 3:

Average throughput: 123.86 Mbit/s

95th percentile per-packet one-way delay: 56.880 ms

Loss rate: 0.11%

Run 2: Report of Copa — Data Link



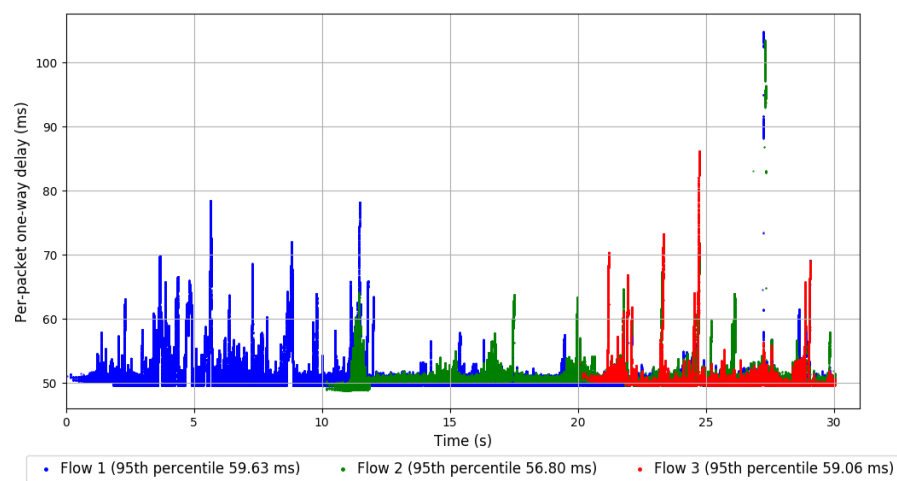
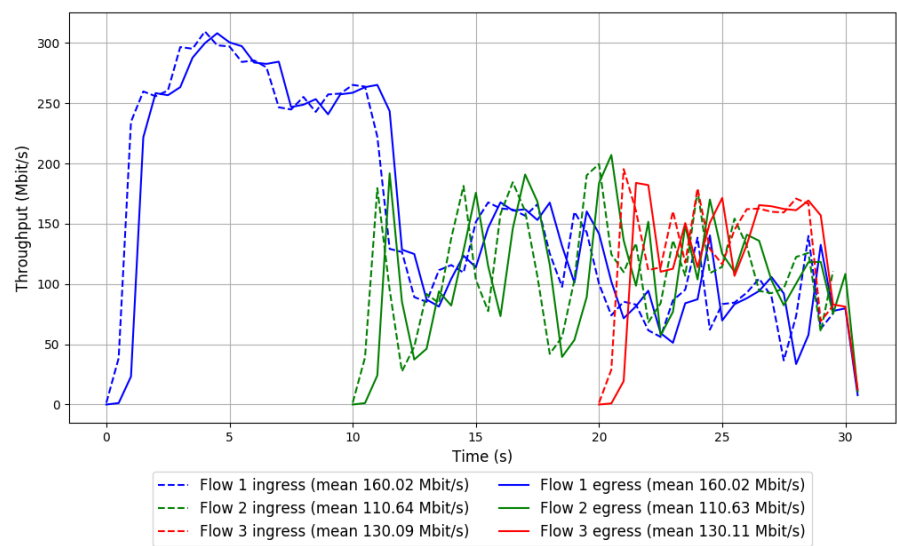
Run 3: Statistics of Copa

Start at: 2018-07-01 17:18:28  
End at: 2018-07-01 17:18:58  
Local clock offset: 0.044 ms  
Remote clock offset: -0.024 ms

# Below is generated by plot.py at 2018-07-01 20:56:52  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 276.94 Mbit/s  
95th percentile per-packet one-way delay: 58.905 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 160.02 Mbit/s  
95th percentile per-packet one-way delay: 59.629 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 110.63 Mbit/s  
95th percentile per-packet one-way delay: 56.799 ms  
Loss rate: 0.01%  
-- Flow 3:  
Average throughput: 130.11 Mbit/s  
95th percentile per-packet one-way delay: 59.059 ms  
Loss rate: 0.01%



Run 3: Report of Copa — Data Link

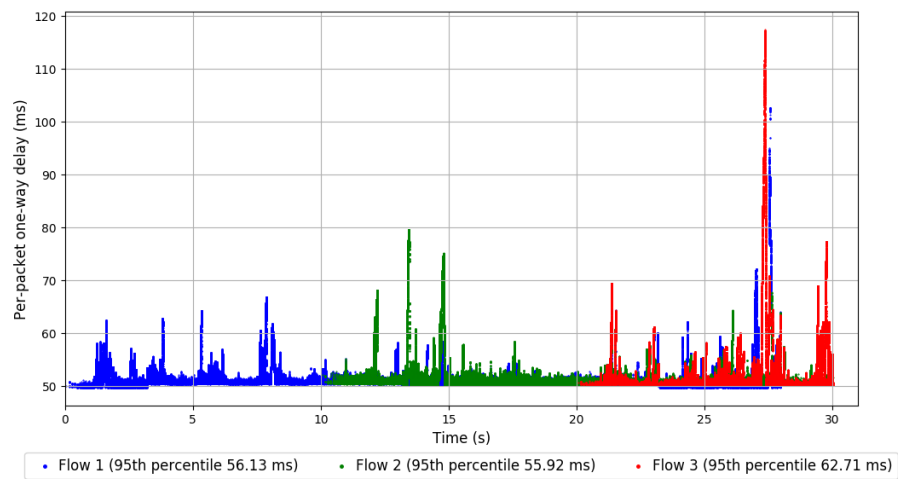
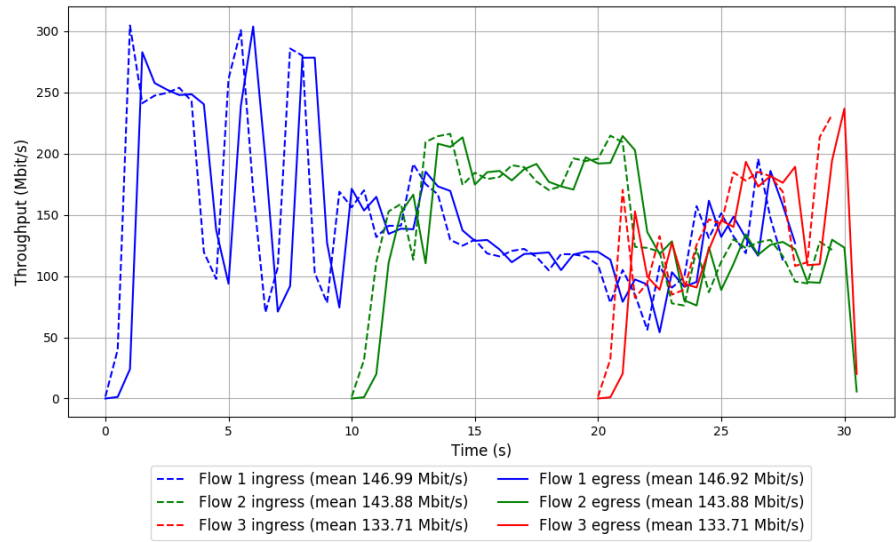


Run 4: Statistics of Copa

Start at: 2018-07-01 17:42:27  
End at: 2018-07-01 17:42:57  
Local clock offset: 0.067 ms  
Remote clock offset: -0.038 ms

# Below is generated by plot.py at 2018-07-01 20:56:52  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 277.07 Mbit/s  
95th percentile per-packet one-way delay: 57.357 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 146.92 Mbit/s  
95th percentile per-packet one-way delay: 56.127 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 143.88 Mbit/s  
95th percentile per-packet one-way delay: 55.918 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 133.71 Mbit/s  
95th percentile per-packet one-way delay: 62.708 ms  
Loss rate: 0.01%

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

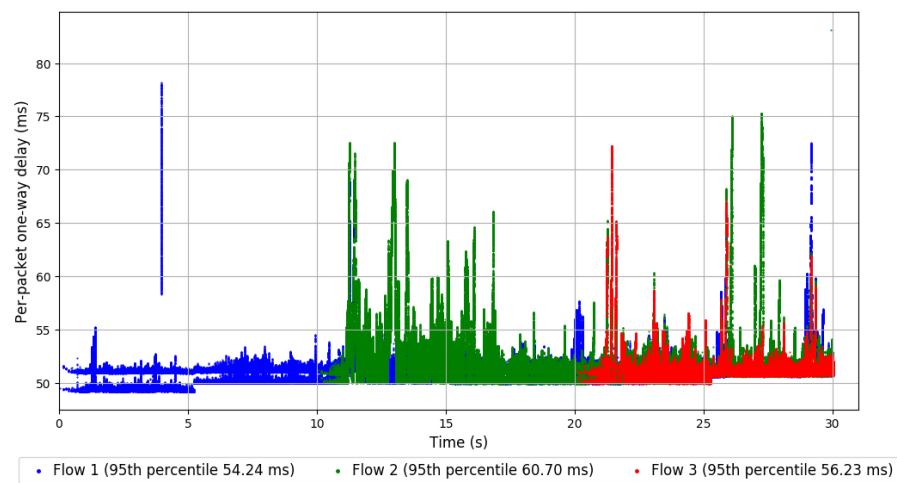
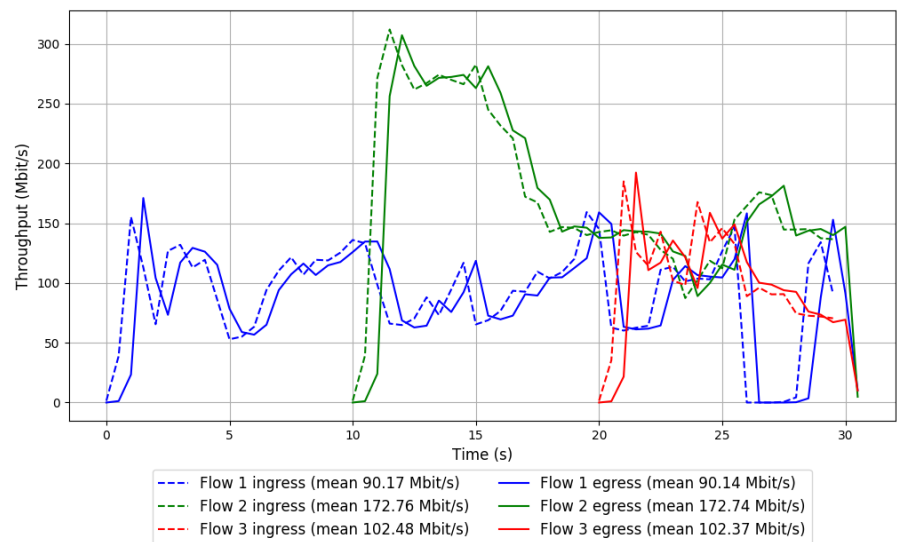


Run 5: Statistics of Copa

Start at: 2018-07-01 18:06:35  
End at: 2018-07-01 18:07:05  
Local clock offset: -0.316 ms  
Remote clock offset: -0.126 ms

# Below is generated by plot.py at 2018-07-01 20:56:52  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 239.10 Mbit/s  
95th percentile per-packet one-way delay: 57.852 ms  
Loss rate: 0.03%  
-- Flow 1:  
Average throughput: 90.14 Mbit/s  
95th percentile per-packet one-way delay: 54.237 ms  
Loss rate: 0.03%  
-- Flow 2:  
Average throughput: 172.74 Mbit/s  
95th percentile per-packet one-way delay: 60.701 ms  
Loss rate: 0.01%  
-- Flow 3:  
Average throughput: 102.37 Mbit/s  
95th percentile per-packet one-way delay: 56.226 ms  
Loss rate: 0.10%

Run 5: Report of Copa — Data Link

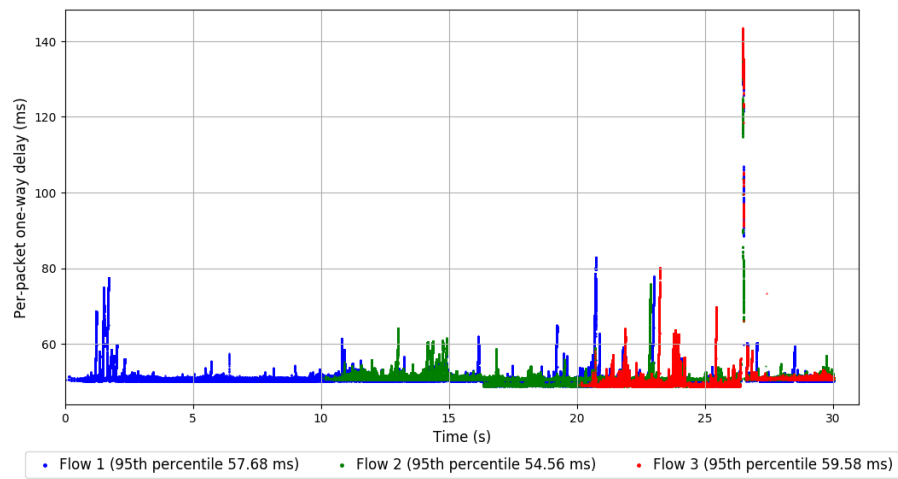
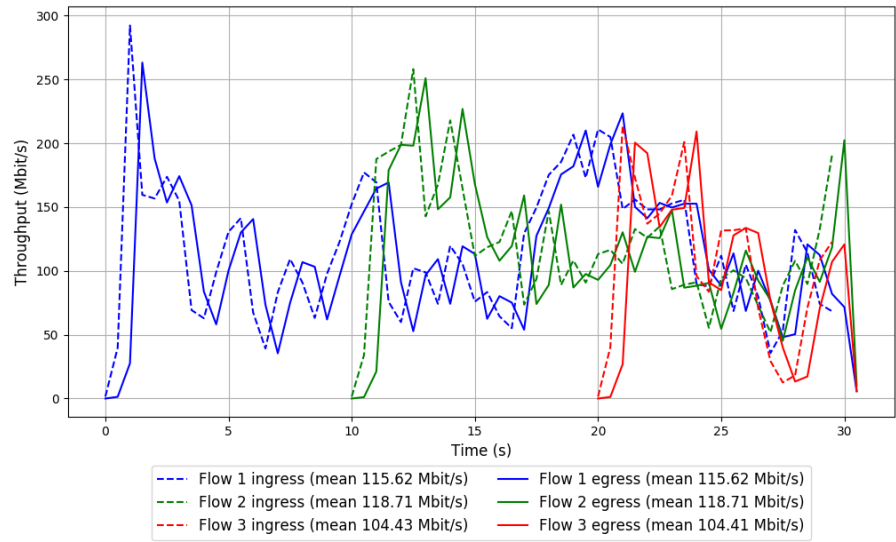


Run 6: Statistics of Copa

Start at: 2018-07-01 18:30:34  
End at: 2018-07-01 18:31:04  
Local clock offset: -0.013 ms  
Remote clock offset: -0.054 ms

```
# Below is generated by plot.py at 2018-07-01 20:56:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 229.38 Mbit/s
95th percentile per-packet one-way delay: 56.761 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 115.62 Mbit/s
95th percentile per-packet one-way delay: 57.677 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 118.71 Mbit/s
95th percentile per-packet one-way delay: 54.560 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 104.41 Mbit/s
95th percentile per-packet one-way delay: 59.576 ms
Loss rate: 0.00%
```

## Run 6: Report of Copa — Data Link



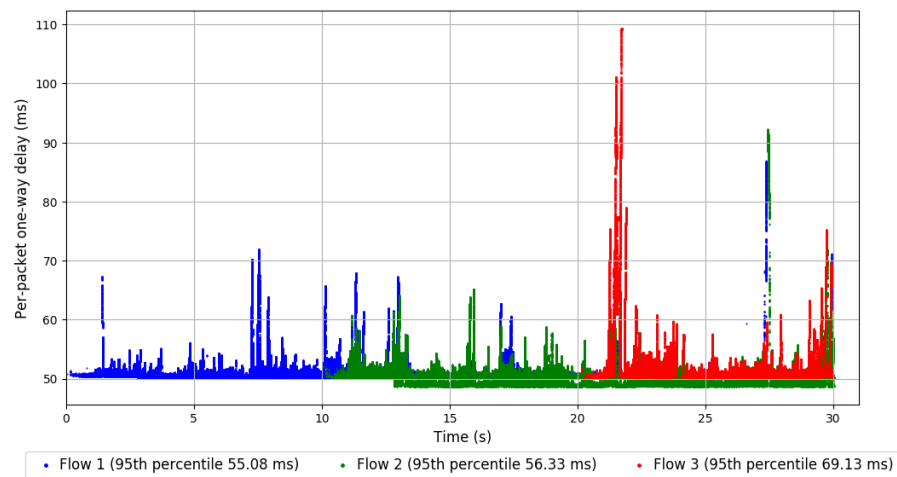
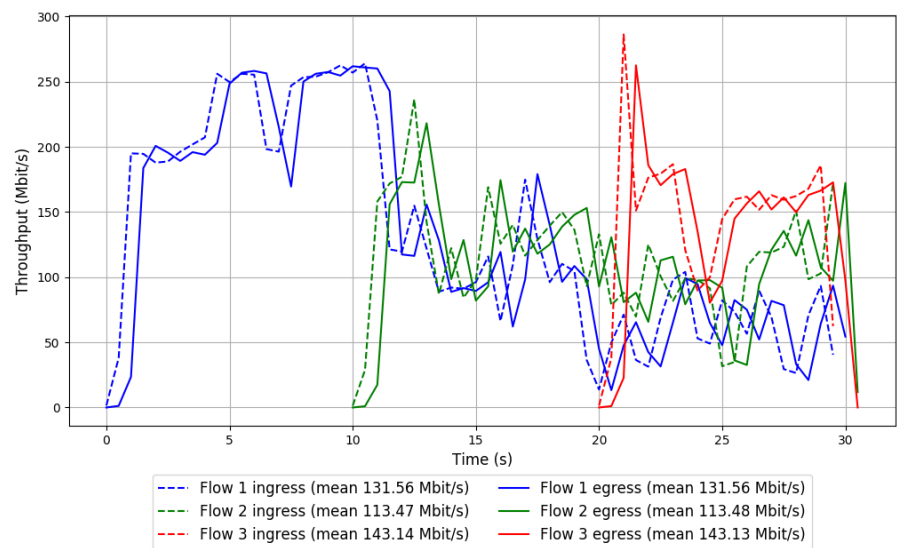
Run 7: Statistics of Copa

Start at: 2018-07-01 18:54:37  
End at: 2018-07-01 18:55:07  
Local clock offset: 0.049 ms  
Remote clock offset: -0.086 ms

# Below is generated by plot.py at 2018-07-01 21:02:15  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 254.42 Mbit/s  
95th percentile per-packet one-way delay: 57.651 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 131.56 Mbit/s  
95th percentile per-packet one-way delay: 55.076 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 113.48 Mbit/s  
95th percentile per-packet one-way delay: 56.334 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 143.13 Mbit/s  
95th percentile per-packet one-way delay: 69.128 ms  
Loss rate: 0.01%



Run 7: Report of Copa — Data Link

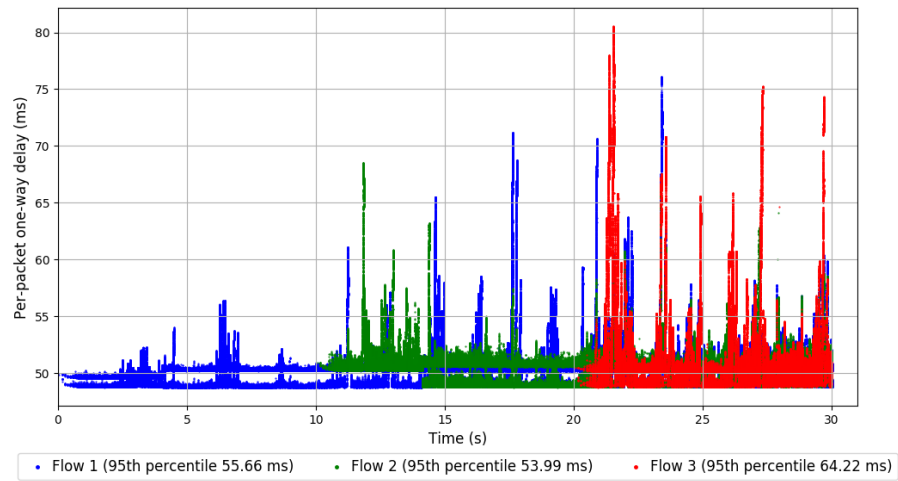
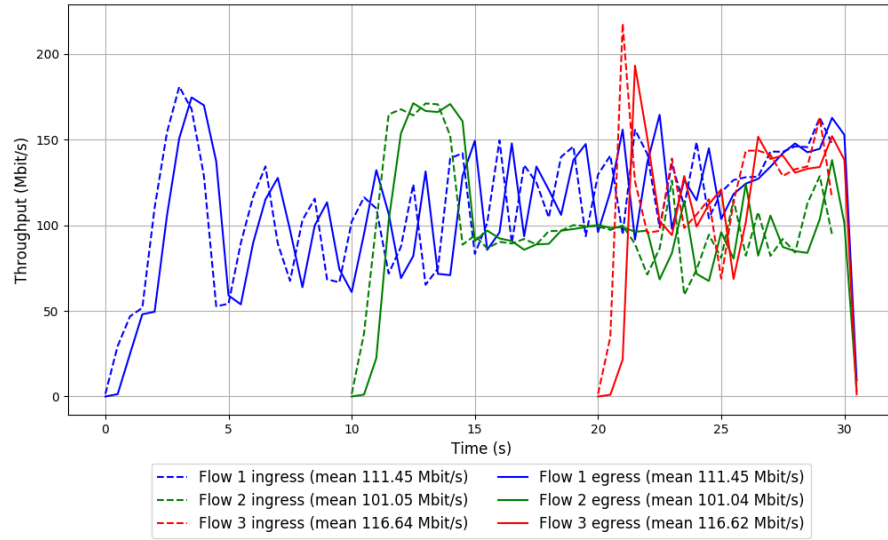


Run 8: Statistics of Copa

Start at: 2018-07-01 19:18:36  
End at: 2018-07-01 19:19:06  
Local clock offset: 0.155 ms  
Remote clock offset: -0.105 ms

# Below is generated by plot.py at 2018-07-01 21:02:15  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 217.31 Mbit/s  
95th percentile per-packet one-way delay: 56.431 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 111.45 Mbit/s  
95th percentile per-packet one-way delay: 55.655 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 101.04 Mbit/s  
95th percentile per-packet one-way delay: 53.991 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 116.62 Mbit/s  
95th percentile per-packet one-way delay: 64.219 ms  
Loss rate: 0.01%

# Run 8: Report of Copa — Data Link

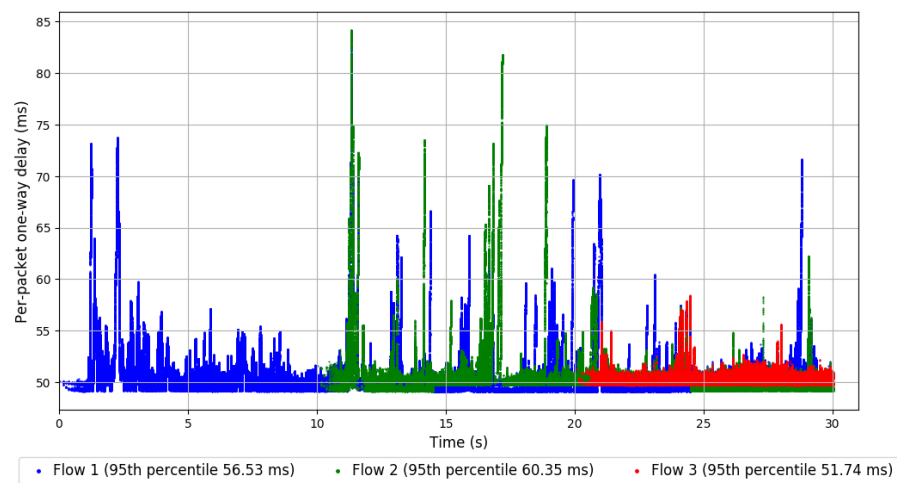
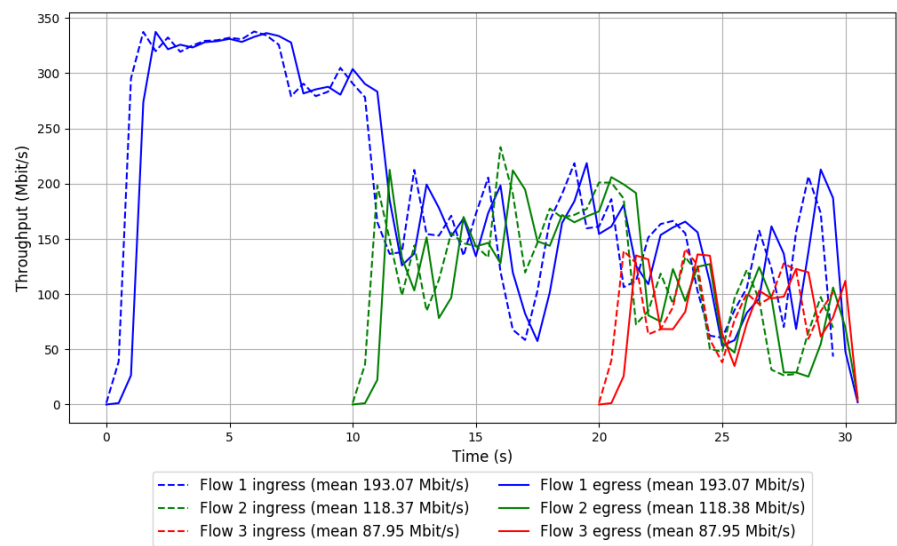


Run 9: Statistics of Copa

Start at: 2018-07-01 19:42:46  
End at: 2018-07-01 19:43:16  
Local clock offset: 0.495 ms  
Remote clock offset: -0.037 ms

# Below is generated by plot.py at 2018-07-01 21:04:37  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 301.18 Mbit/s  
95th percentile per-packet one-way delay: 56.683 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 193.07 Mbit/s  
95th percentile per-packet one-way delay: 56.526 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 118.38 Mbit/s  
95th percentile per-packet one-way delay: 60.353 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 87.95 Mbit/s  
95th percentile per-packet one-way delay: 51.736 ms  
Loss rate: 0.00%

Run 9: Report of Copa — Data Link

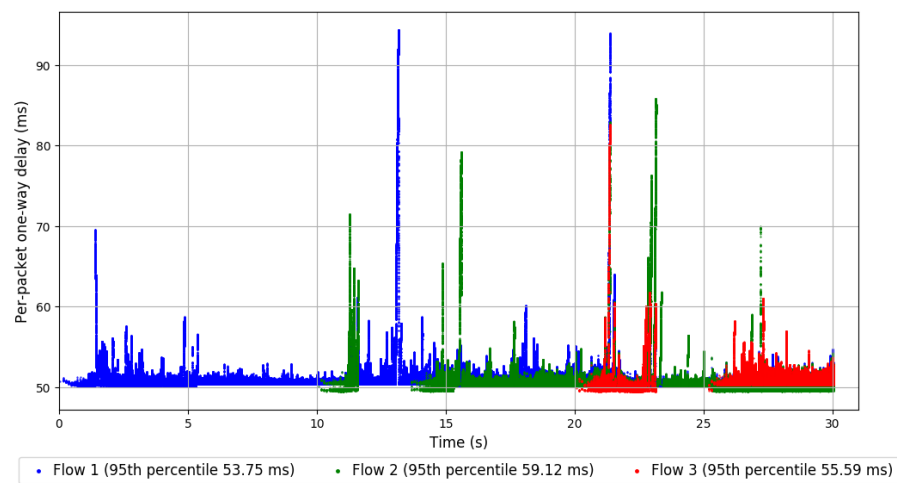
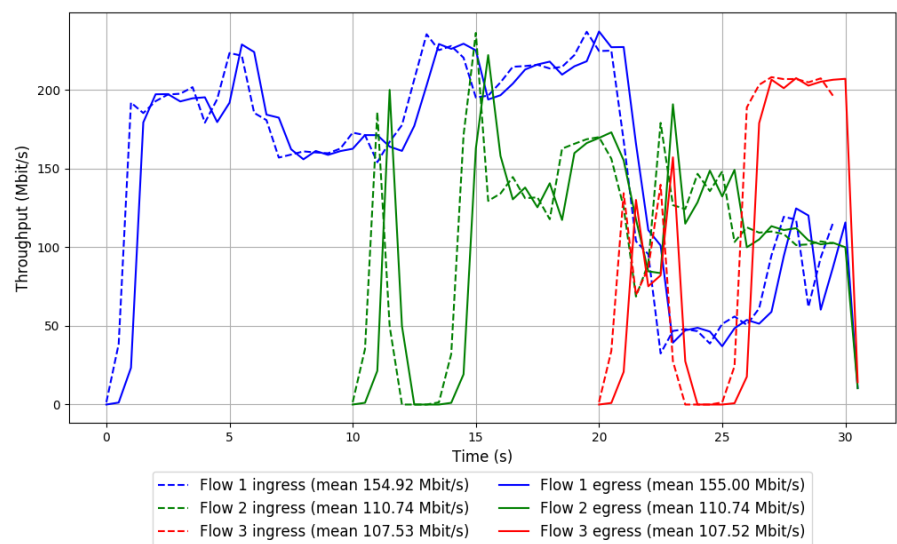


Run 10: Statistics of Copa

Start at: 2018-07-01 20:07:05  
End at: 2018-07-01 20:07:35  
Local clock offset: 0.151 ms  
Remote clock offset: -0.012 ms

# Below is generated by plot.py at 2018-07-01 21:04:37  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 264.44 Mbit/s  
95th percentile per-packet one-way delay: 54.818 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 155.00 Mbit/s  
95th percentile per-packet one-way delay: 53.754 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 110.74 Mbit/s  
95th percentile per-packet one-way delay: 59.115 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 107.52 Mbit/s  
95th percentile per-packet one-way delay: 55.586 ms  
Loss rate: 0.00%

Run 10: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-07-01 16:36:41

End at: 2018-07-01 16:37:11

Local clock offset: 0.071 ms

Remote clock offset: 0.006 ms

# Below is generated by plot.py at 2018-07-01 21:04:37

# Datalink statistics

-- Total of 3 flows:

Average throughput: 325.33 Mbit/s

95th percentile per-packet one-way delay: 61.334 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 170.49 Mbit/s

95th percentile per-packet one-way delay: 59.928 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 229.75 Mbit/s

95th percentile per-packet one-way delay: 62.206 ms

Loss rate: 0.07%

-- Flow 3:

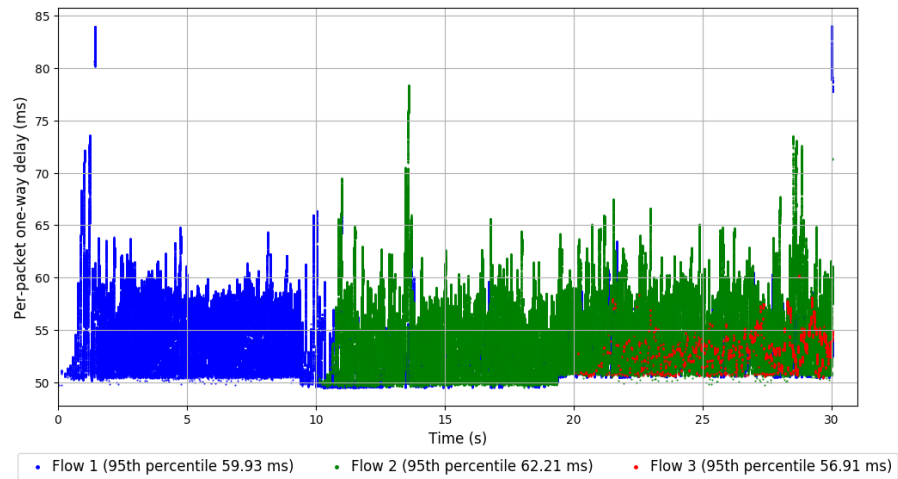
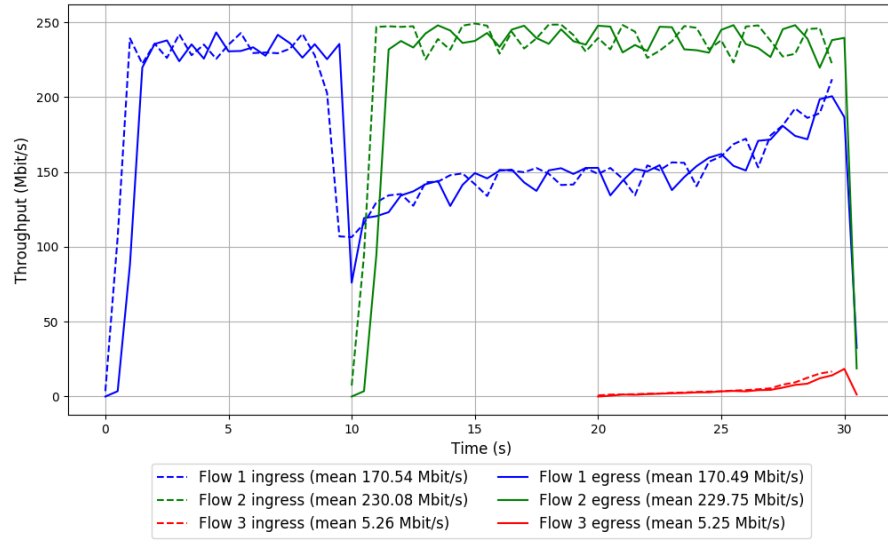
Average throughput: 5.25 Mbit/s

95th percentile per-packet one-way delay: 56.910 ms

Loss rate: 0.16%



# Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-07-01 17:00:48

End at: 2018-07-01 17:01:18

Local clock offset: -0.295 ms

Remote clock offset: 0.007 ms

# Below is generated by plot.py at 2018-07-01 21:04:37

# Datalink statistics

-- Total of 3 flows:

Average throughput: 288.46 Mbit/s

95th percentile per-packet one-way delay: 61.804 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 137.57 Mbit/s

95th percentile per-packet one-way delay: 56.878 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 223.89 Mbit/s

95th percentile per-packet one-way delay: 63.210 ms

Loss rate: 0.05%

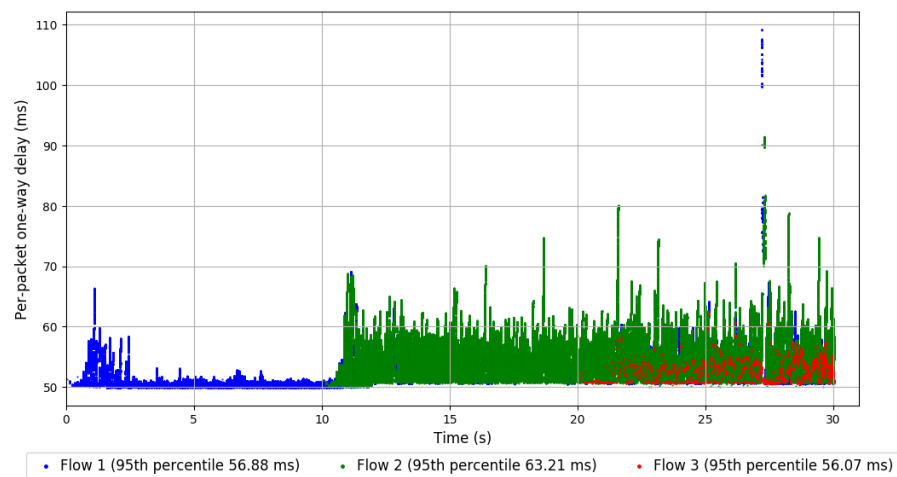
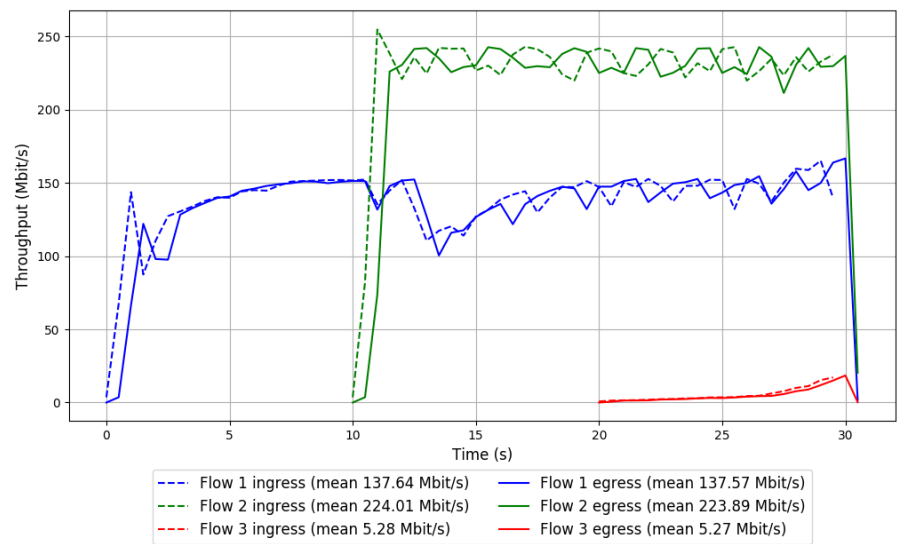
-- Flow 3:

Average throughput: 5.27 Mbit/s

95th percentile per-packet one-way delay: 56.069 ms

Loss rate: 0.16%

Run 2: Report of TCP Cubic — Data Link

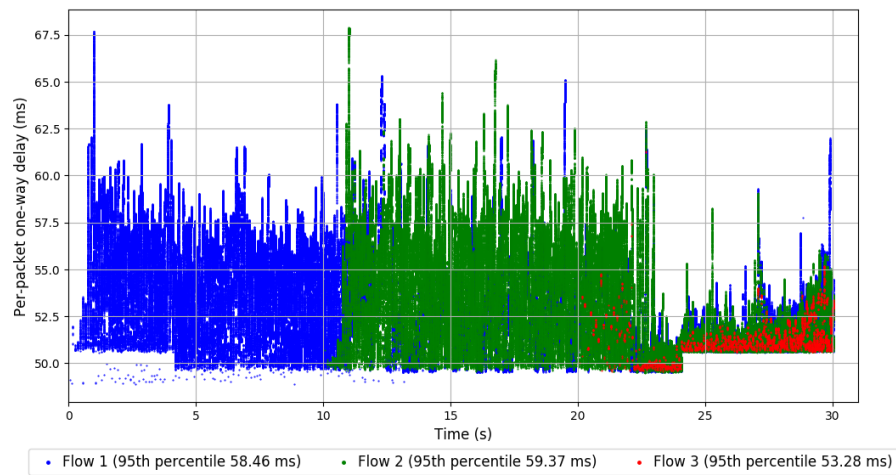
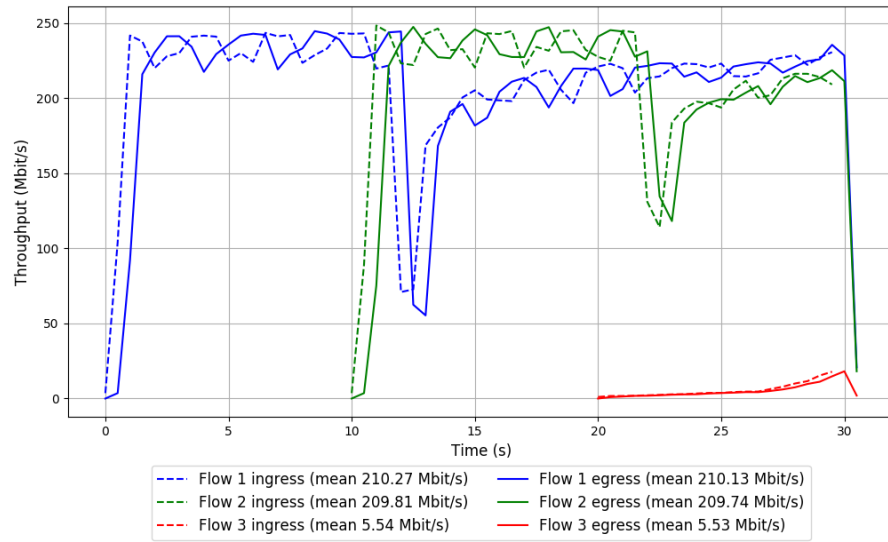


Run 3: Statistics of TCP Cubic

Start at: 2018-07-01 17:25:06  
End at: 2018-07-01 17:25:36  
Local clock offset: 0.092 ms  
Remote clock offset: -0.046 ms

# Below is generated by plot.py at 2018-07-01 21:04:37  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 351.66 Mbit/s  
95th percentile per-packet one-way delay: 58.886 ms  
Loss rate: 0.05%  
-- Flow 1:  
Average throughput: 210.13 Mbit/s  
95th percentile per-packet one-way delay: 58.456 ms  
Loss rate: 0.06%  
-- Flow 2:  
Average throughput: 209.74 Mbit/s  
95th percentile per-packet one-way delay: 59.367 ms  
Loss rate: 0.03%  
-- Flow 3:  
Average throughput: 5.53 Mbit/s  
95th percentile per-packet one-way delay: 53.278 ms  
Loss rate: 0.09%

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

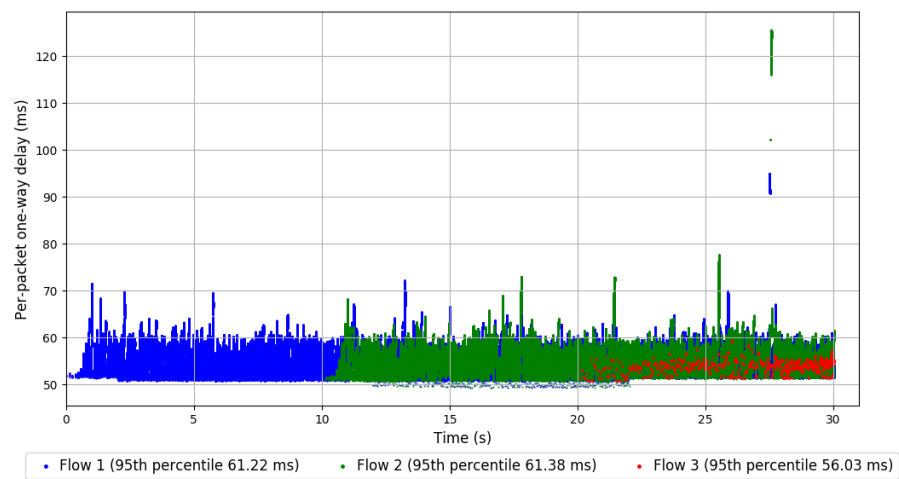
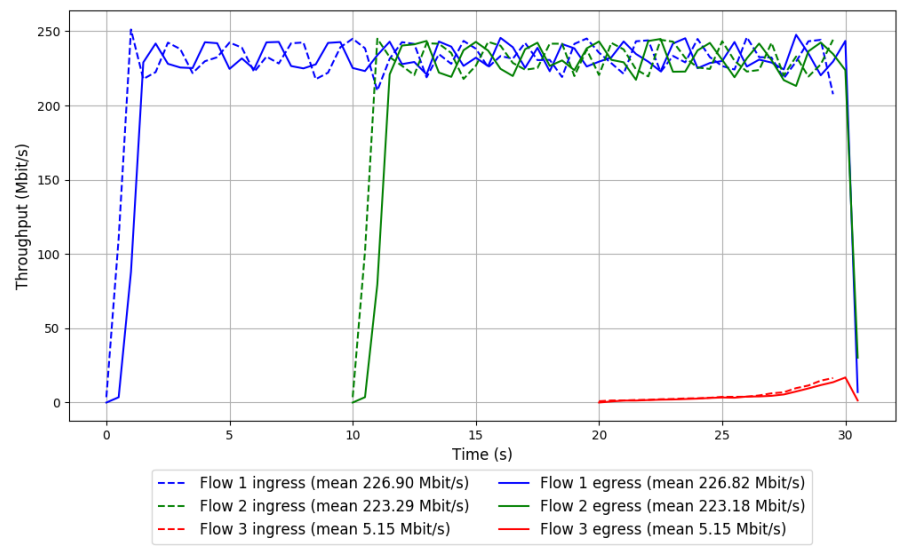


Run 4: Statistics of TCP Cubic

Start at: 2018-07-01 17:49:08  
End at: 2018-07-01 17:49:38  
Local clock offset: -0.286 ms  
Remote clock offset: -0.039 ms

```
# Below is generated by plot.py at 2018-07-01 21:04:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 377.18 Mbit/s
95th percentile per-packet one-way delay: 61.293 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 226.82 Mbit/s
95th percentile per-packet one-way delay: 61.223 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 223.18 Mbit/s
95th percentile per-packet one-way delay: 61.380 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 5.15 Mbit/s
95th percentile per-packet one-way delay: 56.035 ms
Loss rate: 0.12%
```

Run 4: Report of TCP Cubic — Data Link



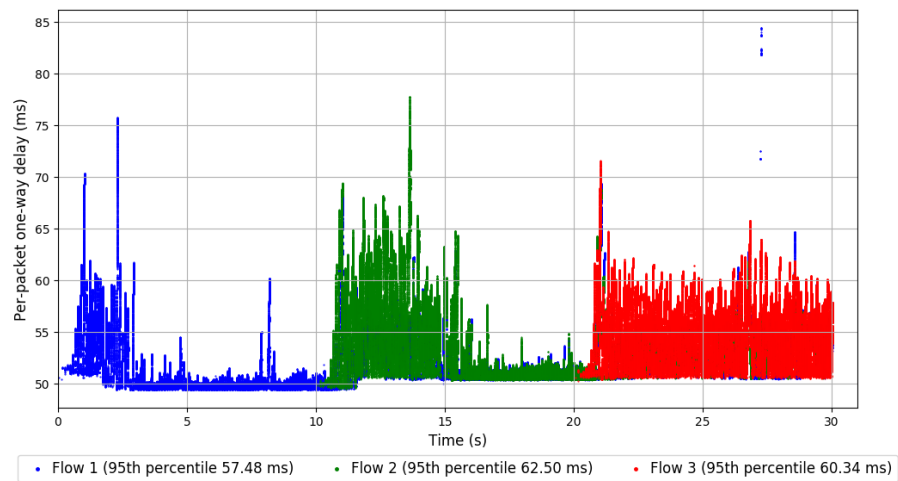
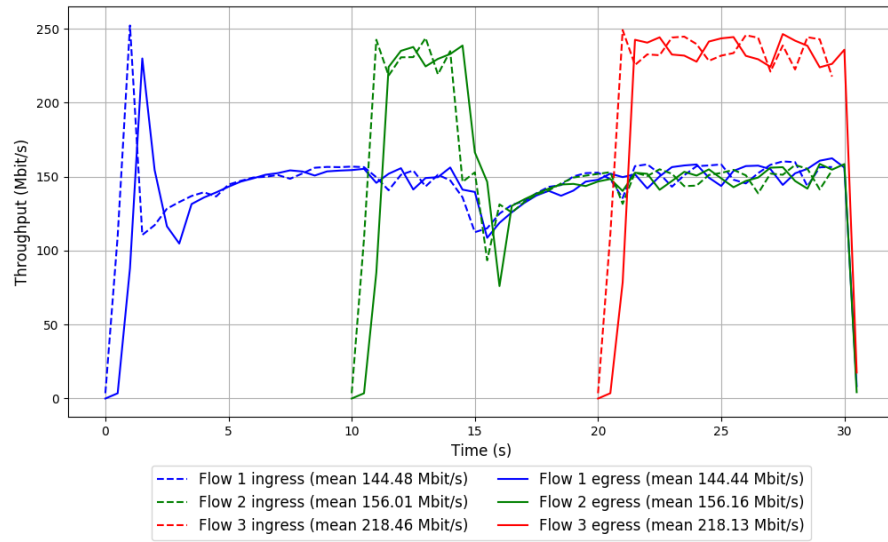
Run 5: Statistics of TCP Cubic

Start at: 2018-07-01 18:13:09  
End at: 2018-07-01 18:13:39  
Local clock offset: 0.123 ms  
Remote clock offset: -0.228 ms

# Below is generated by plot.py at 2018-07-01 21:06:10  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 320.82 Mbit/s  
95th percentile per-packet one-way delay: 60.238 ms  
Loss rate: 0.04%  
-- Flow 1:  
Average throughput: 144.44 Mbit/s  
95th percentile per-packet one-way delay: 57.475 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 156.16 Mbit/s  
95th percentile per-packet one-way delay: 62.504 ms  
Loss rate: 0.01%  
-- Flow 3:  
Average throughput: 218.13 Mbit/s  
95th percentile per-packet one-way delay: 60.343 ms  
Loss rate: 0.14%



# Run 5: Report of TCP Cubic — Data Link

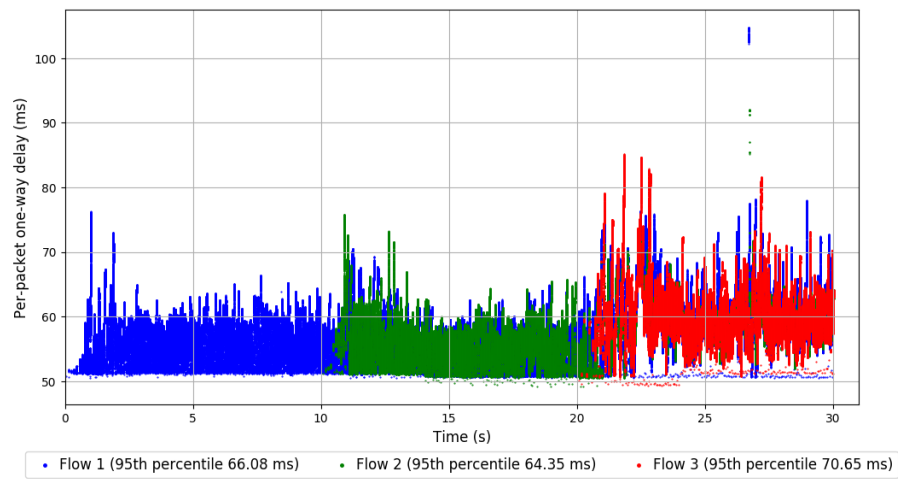
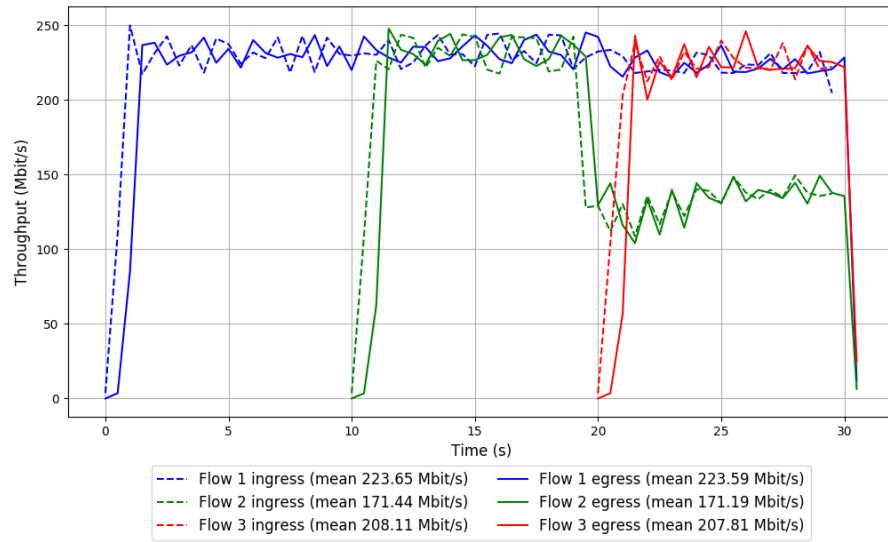


Run 6: Statistics of TCP Cubic

Start at: 2018-07-01 18:37:06  
End at: 2018-07-01 18:37:36  
Local clock offset: -0.318 ms  
Remote clock offset: -0.039 ms

# Below is generated by plot.py at 2018-07-01 21:07:56  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 406.49 Mbit/s  
95th percentile per-packet one-way delay: 66.795 ms  
Loss rate: 0.04%  
-- Flow 1:  
Average throughput: 223.59 Mbit/s  
95th percentile per-packet one-way delay: 66.080 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 171.19 Mbit/s  
95th percentile per-packet one-way delay: 64.346 ms  
Loss rate: 0.14%  
-- Flow 3:  
Average throughput: 207.81 Mbit/s  
95th percentile per-packet one-way delay: 70.647 ms  
Loss rate: 0.00%

# Run 6: Report of TCP Cubic — Data Link

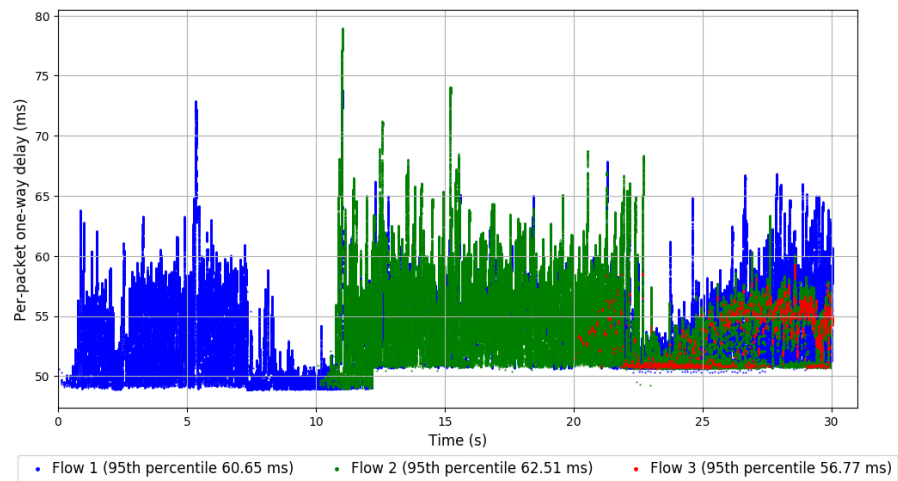
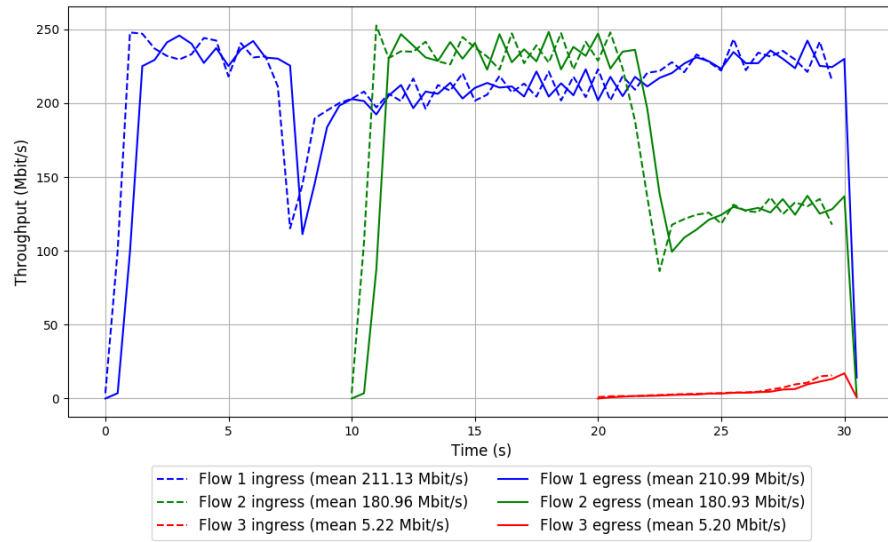


Run 7: Statistics of TCP Cubic

Start at: 2018-07-01 19:01:08  
End at: 2018-07-01 19:01:38  
Local clock offset: 0.054 ms  
Remote clock offset: -0.022 ms

# Below is generated by plot.py at 2018-07-01 21:07:56  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 333.23 Mbit/s  
95th percentile per-packet one-way delay: 61.446 ms  
Loss rate: 0.05%  
-- Flow 1:  
Average throughput: 210.99 Mbit/s  
95th percentile per-packet one-way delay: 60.645 ms  
Loss rate: 0.06%  
-- Flow 2:  
Average throughput: 180.93 Mbit/s  
95th percentile per-packet one-way delay: 62.506 ms  
Loss rate: 0.01%  
-- Flow 3:  
Average throughput: 5.20 Mbit/s  
95th percentile per-packet one-way delay: 56.771 ms  
Loss rate: 0.23%

# Run 7: Report of TCP Cubic — Data Link

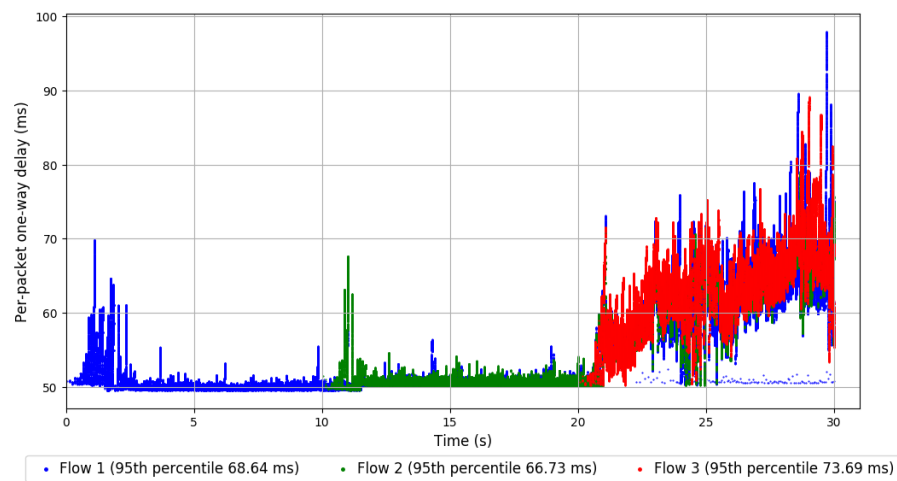
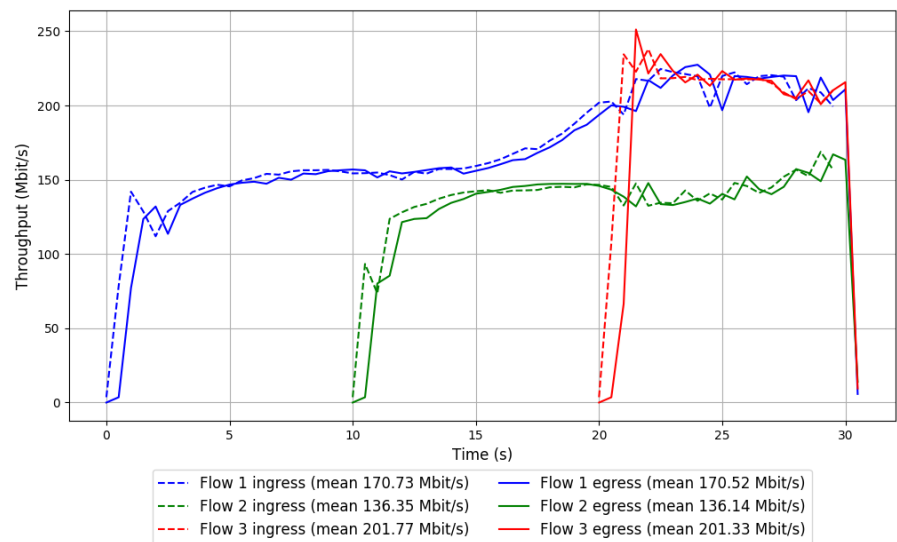


Run 8: Statistics of TCP Cubic

Start at: 2018-07-01 19:25:09  
End at: 2018-07-01 19:25:39  
Local clock offset: 0.176 ms  
Remote clock offset: -0.105 ms

# Below is generated by plot.py at 2018-07-01 21:07:56  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 328.06 Mbit/s  
95th percentile per-packet one-way delay: 69.832 ms  
Loss rate: 0.12%  
-- Flow 1:  
Average throughput: 170.52 Mbit/s  
95th percentile per-packet one-way delay: 68.636 ms  
Loss rate: 0.13%  
-- Flow 2:  
Average throughput: 136.14 Mbit/s  
95th percentile per-packet one-way delay: 66.734 ms  
Loss rate: 0.04%  
-- Flow 3:  
Average throughput: 201.33 Mbit/s  
95th percentile per-packet one-way delay: 73.687 ms  
Loss rate: 0.23%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-07-01 19:49:25

End at: 2018-07-01 19:49:55

Local clock offset: -0.24 ms

Remote clock offset: -0.01 ms

# Below is generated by plot.py at 2018-07-01 21:08:22

# Datalink statistics

-- Total of 3 flows:

Average throughput: 361.62 Mbit/s

95th percentile per-packet one-way delay: 86.069 ms

Loss rate: 0.17%

-- Flow 1:

Average throughput: 164.14 Mbit/s

95th percentile per-packet one-way delay: 84.122 ms

Loss rate: 0.17%

-- Flow 2:

Average throughput: 207.43 Mbit/s

95th percentile per-packet one-way delay: 85.819 ms

Loss rate: 0.24%

-- Flow 3:

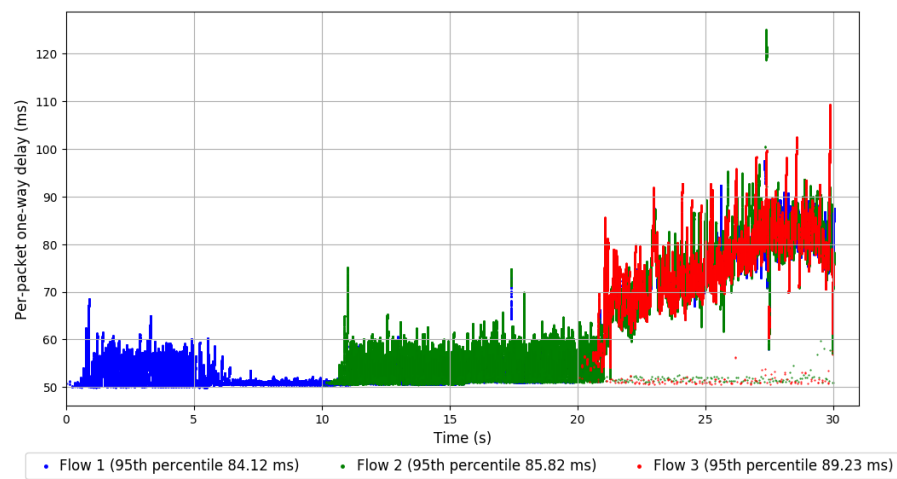
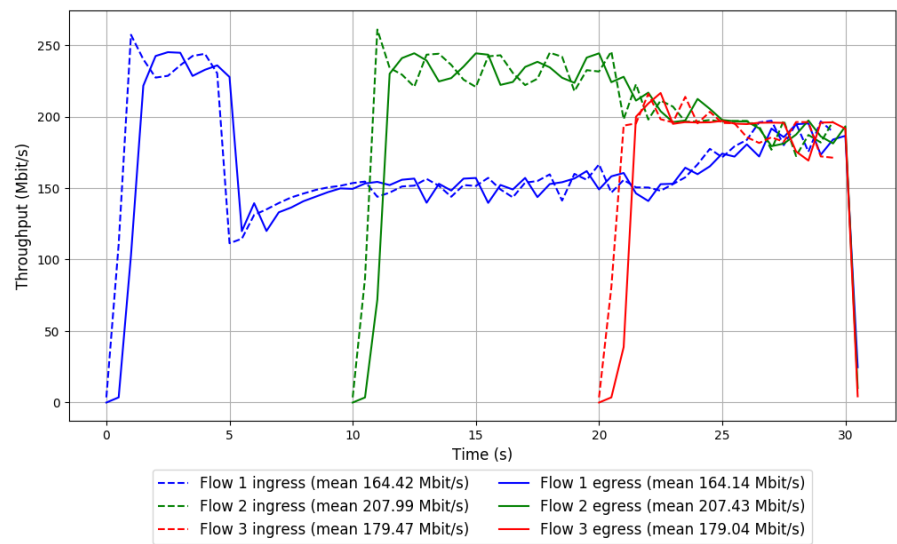
Average throughput: 179.04 Mbit/s

95th percentile per-packet one-way delay: 89.231 ms

Loss rate: 0.00%



Run 9: Report of TCP Cubic — Data Link

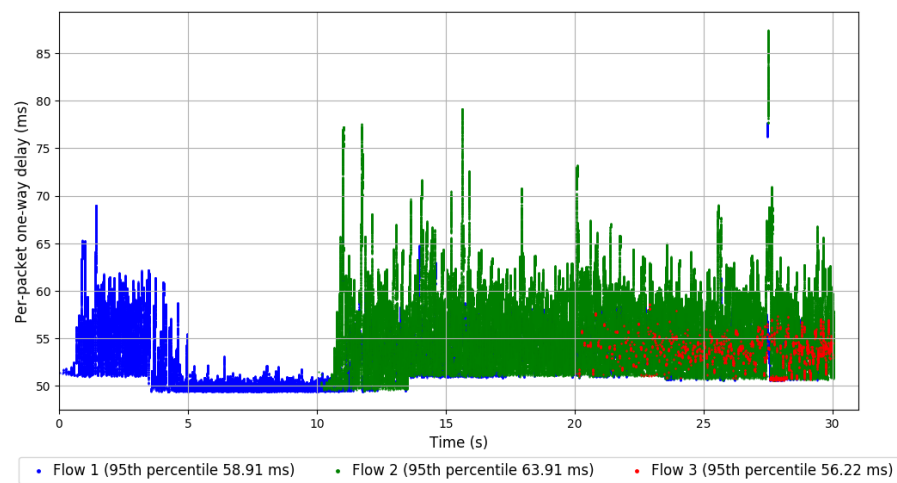
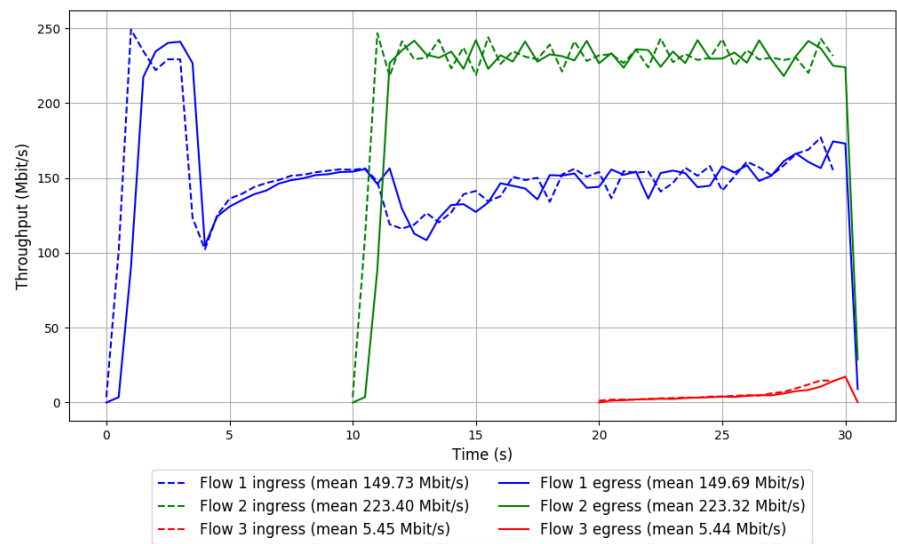


Run 10: Statistics of TCP Cubic

Start at: 2018-07-01 20:13:47  
End at: 2018-07-01 20:14:17  
Local clock offset: -0.257 ms  
Remote clock offset: -0.024 ms

# Below is generated by plot.py at 2018-07-01 21:08:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 300.25 Mbit/s  
95th percentile per-packet one-way delay: 62.099 ms  
Loss rate: 0.03%  
-- Flow 1:  
Average throughput: 149.69 Mbit/s  
95th percentile per-packet one-way delay: 58.910 ms  
Loss rate: 0.03%  
-- Flow 2:  
Average throughput: 223.32 Mbit/s  
95th percentile per-packet one-way delay: 63.914 ms  
Loss rate: 0.03%  
-- Flow 3:  
Average throughput: 5.44 Mbit/s  
95th percentile per-packet one-way delay: 56.220 ms  
Loss rate: 0.02%

Run 10: Report of TCP Cubic — Data Link

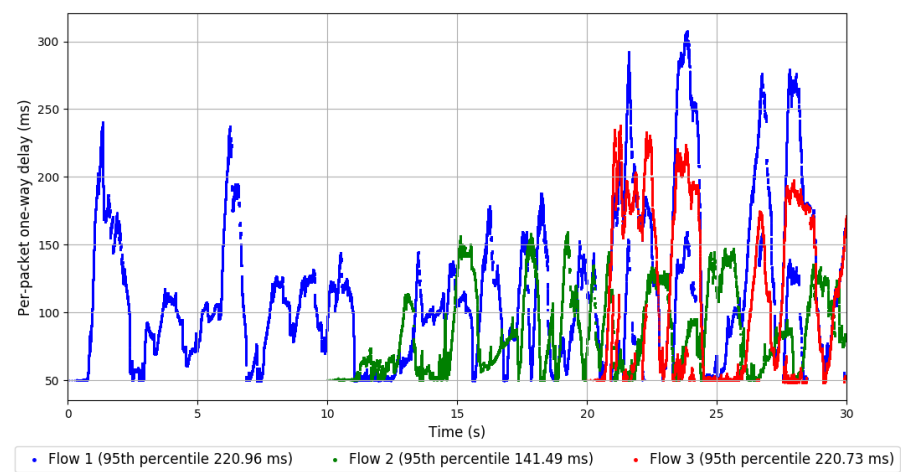
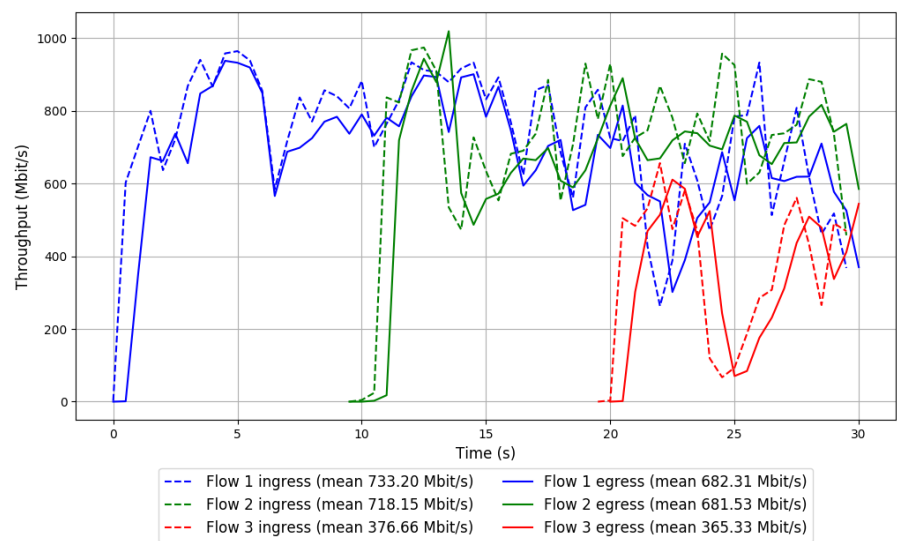


Run 1: Statistics of FillP

Start at: 2018-07-01 16:34:43  
End at: 2018-07-01 16:35:13  
Local clock offset: 0.408 ms  
Remote clock offset: -0.014 ms

# Below is generated by plot.py at 2018-07-01 21:28:04  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1257.92 Mbit/s  
95th percentile per-packet one-way delay: 201.264 ms  
Loss rate: 5.72%  
-- Flow 1:  
Average throughput: 682.31 Mbit/s  
95th percentile per-packet one-way delay: 220.956 ms  
Loss rate: 6.81%  
-- Flow 2:  
Average throughput: 681.53 Mbit/s  
95th percentile per-packet one-way delay: 141.491 ms  
Loss rate: 4.95%  
-- Flow 3:  
Average throughput: 365.33 Mbit/s  
95th percentile per-packet one-way delay: 220.729 ms  
Loss rate: 2.33%

Run 1: Report of FillP — Data Link

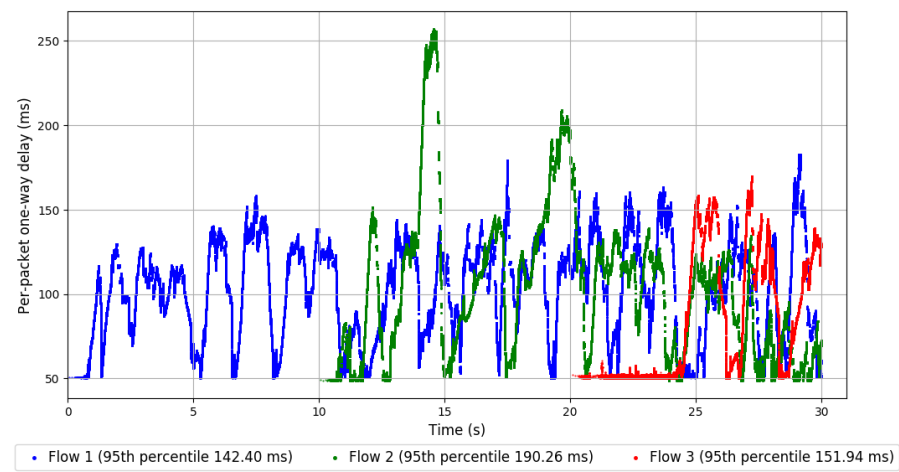
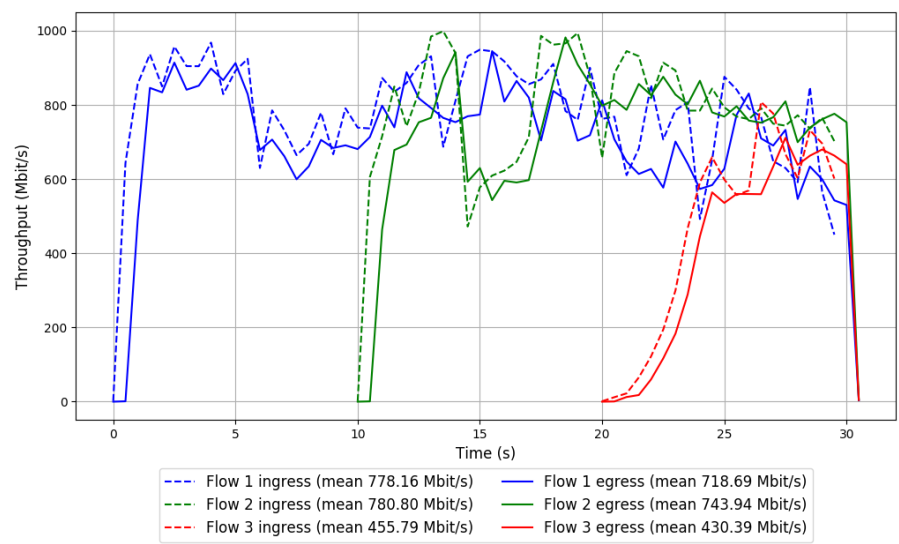


Run 2: Statistics of FillP

Start at: 2018-07-01 16:58:46  
End at: 2018-07-01 16:59:16  
Local clock offset: 0.078 ms  
Remote clock offset: -0.031 ms

# Below is generated by plot.py at 2018-07-01 21:32:04  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1356.46 Mbit/s  
95th percentile per-packet one-way delay: 152.246 ms  
Loss rate: 6.37%  
-- Flow 1:  
Average throughput: 718.69 Mbit/s  
95th percentile per-packet one-way delay: 142.404 ms  
Loss rate: 7.64%  
-- Flow 2:  
Average throughput: 743.94 Mbit/s  
95th percentile per-packet one-way delay: 190.256 ms  
Loss rate: 4.71%  
-- Flow 3:  
Average throughput: 430.39 Mbit/s  
95th percentile per-packet one-way delay: 151.942 ms  
Loss rate: 5.57%

Run 2: Report of FillP — Data Link



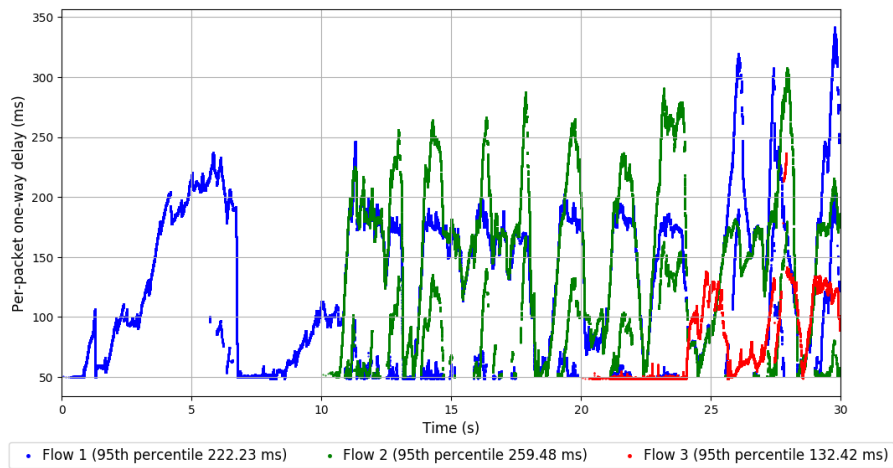
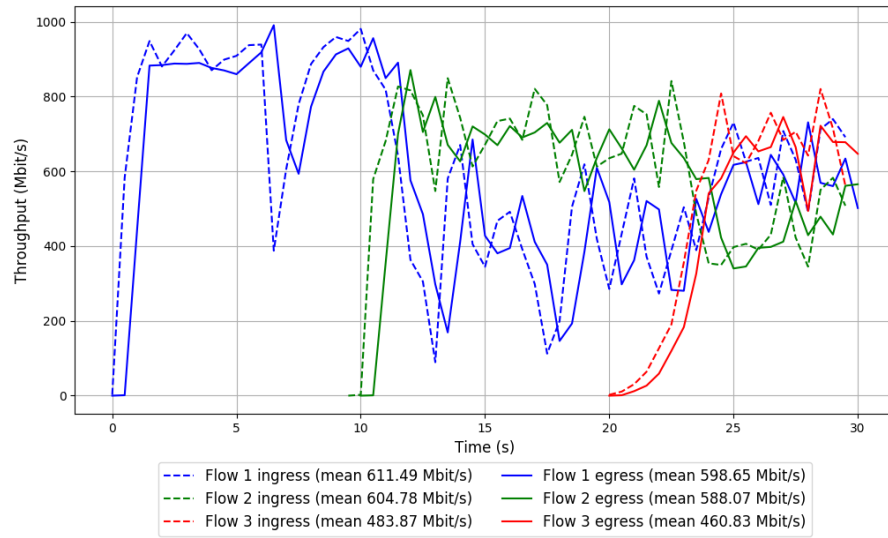
Run 3: Statistics of FillP

Start at: 2018-07-01 17:23:12  
End at: 2018-07-01 17:23:42  
Local clock offset: 0.107 ms  
Remote clock offset: -0.035 ms

# Below is generated by plot.py at 2018-07-01 21:32:04  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1142.89 Mbit/s  
95th percentile per-packet one-way delay: 235.256 ms  
Loss rate: 2.69%  
-- Flow 1:  
Average throughput: 598.65 Mbit/s  
95th percentile per-packet one-way delay: 222.234 ms  
Loss rate: 2.10%  
-- Flow 2:  
Average throughput: 588.07 Mbit/s  
95th percentile per-packet one-way delay: 259.481 ms  
Loss rate: 2.77%  
-- Flow 3:  
Average throughput: 460.83 Mbit/s  
95th percentile per-packet one-way delay: 132.417 ms  
Loss rate: 4.74%



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

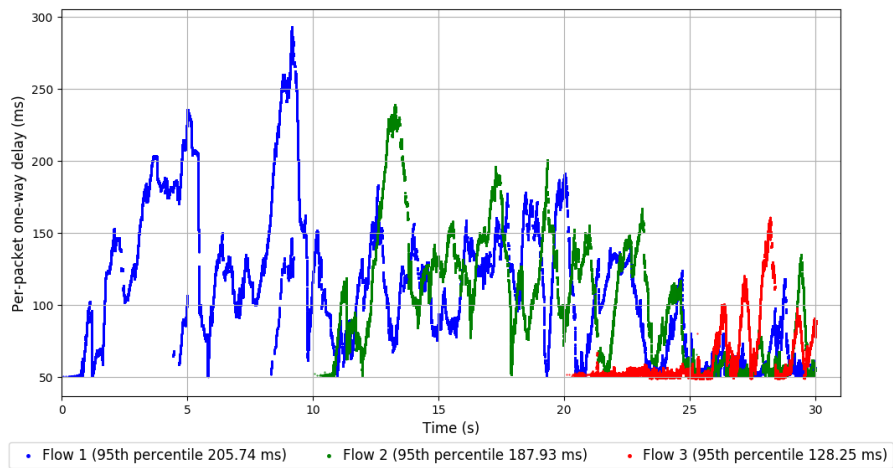
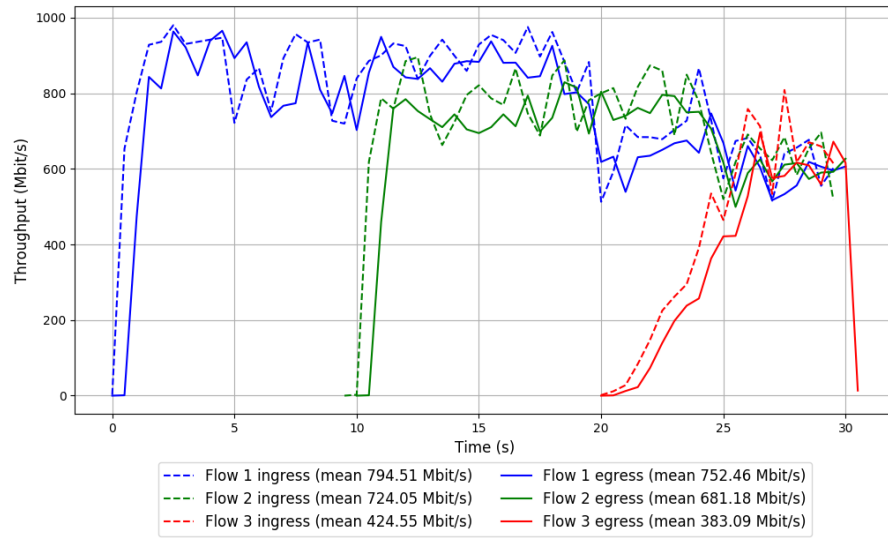


Run 4: Statistics of FillP

Start at: 2018-07-01 17:47:07  
End at: 2018-07-01 17:47:37  
Local clock offset: 0.126 ms  
Remote clock offset: -0.082 ms

# Below is generated by plot.py at 2018-07-01 21:33:30  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1331.71 Mbit/s  
95th percentile per-packet one-way delay: 195.931 ms  
Loss rate: 5.91%  
-- Flow 1:  
Average throughput: 752.46 Mbit/s  
95th percentile per-packet one-way delay: 205.741 ms  
Loss rate: 5.28%  
-- Flow 2:  
Average throughput: 681.18 Mbit/s  
95th percentile per-packet one-way delay: 187.926 ms  
Loss rate: 5.91%  
-- Flow 3:  
Average throughput: 383.09 Mbit/s  
95th percentile per-packet one-way delay: 128.252 ms  
Loss rate: 9.43%

# Run 4: Report of FillP — Data Link

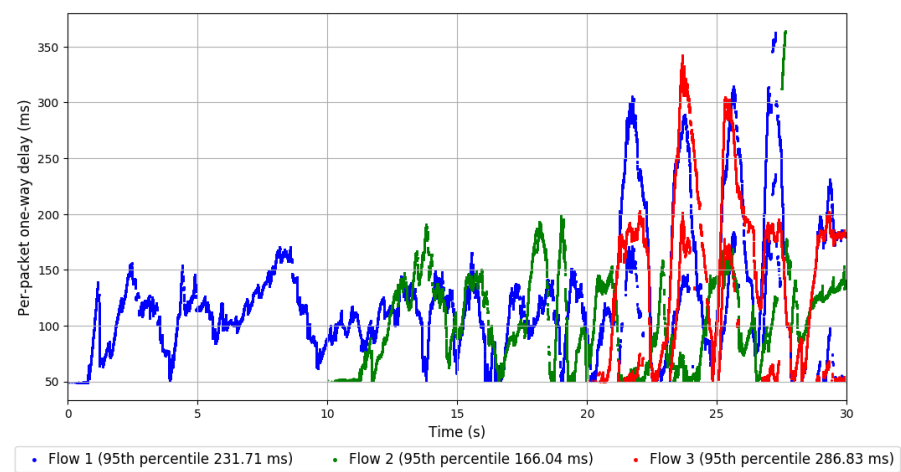
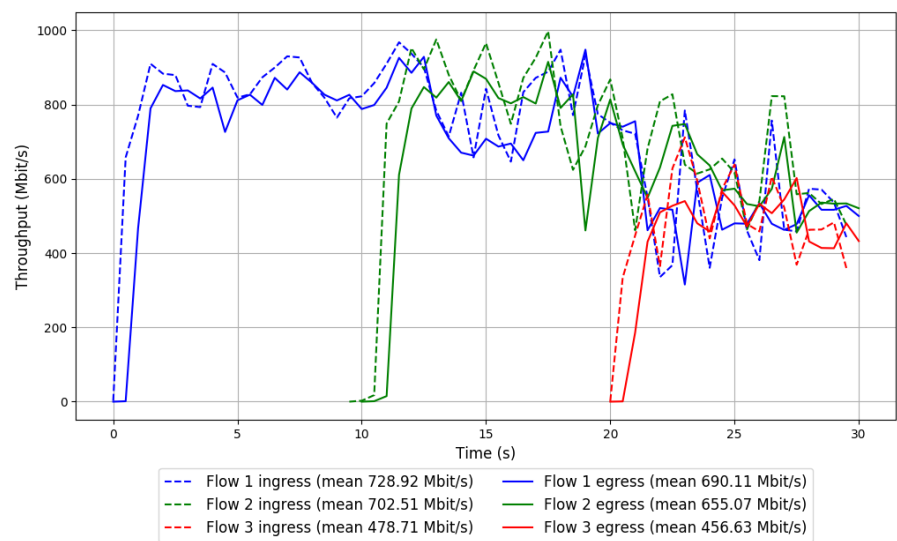


Run 5: Statistics of FillP

Start at: 2018-07-01 18:11:09  
End at: 2018-07-01 18:11:39  
Local clock offset: 0.043 ms  
Remote clock offset: -0.176 ms

# Below is generated by plot.py at 2018-07-01 21:33:30  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1277.79 Mbit/s  
95th percentile per-packet one-way delay: 219.160 ms  
Loss rate: 5.73%  
-- Flow 1:  
Average throughput: 690.11 Mbit/s  
95th percentile per-packet one-way delay: 231.712 ms  
Loss rate: 5.32%  
-- Flow 2:  
Average throughput: 655.07 Mbit/s  
95th percentile per-packet one-way delay: 166.037 ms  
Loss rate: 6.76%  
-- Flow 3:  
Average throughput: 456.63 Mbit/s  
95th percentile per-packet one-way delay: 286.833 ms  
Loss rate: 4.60%

Run 5: Report of FillP — Data Link

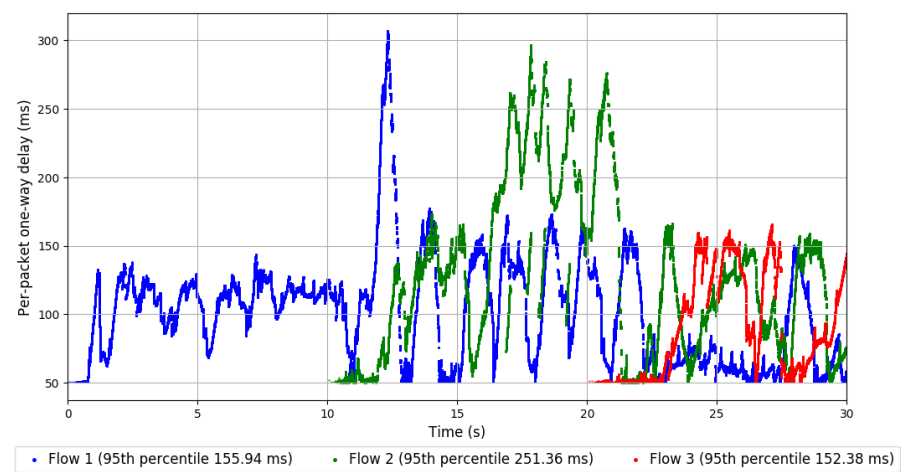
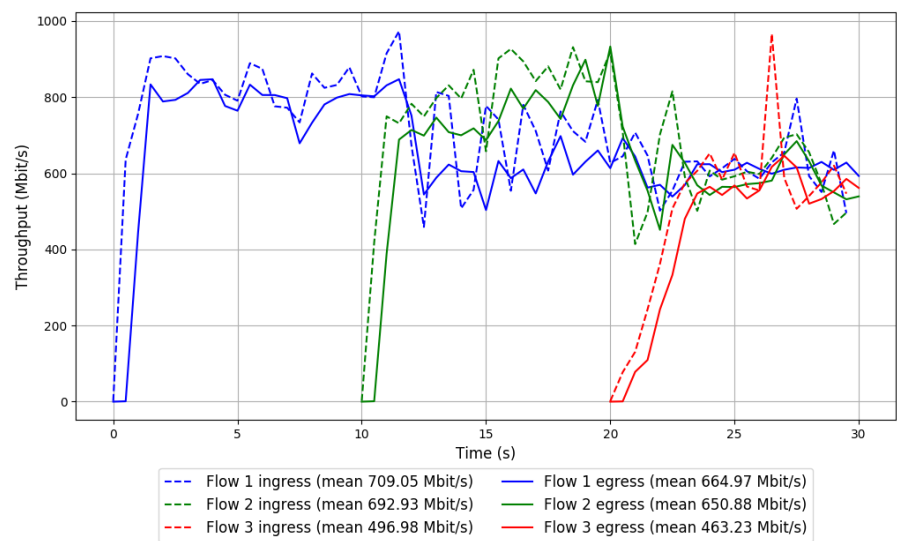


Run 6: Statistics of FillP

Start at: 2018-07-01 18:35:08  
End at: 2018-07-01 18:35:38  
Local clock offset: 0.017 ms  
Remote clock offset: -0.061 ms

# Below is generated by plot.py at 2018-07-01 21:33:30  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1251.64 Mbit/s  
95th percentile per-packet one-way delay: 218.337 ms  
Loss rate: 6.23%  
-- Flow 1:  
Average throughput: 664.97 Mbit/s  
95th percentile per-packet one-way delay: 155.940 ms  
Loss rate: 6.21%  
-- Flow 2:  
Average throughput: 650.88 Mbit/s  
95th percentile per-packet one-way delay: 251.357 ms  
Loss rate: 6.07%  
-- Flow 3:  
Average throughput: 463.23 Mbit/s  
95th percentile per-packet one-way delay: 152.380 ms  
Loss rate: 6.79%

Run 6: Report of FillP — Data Link



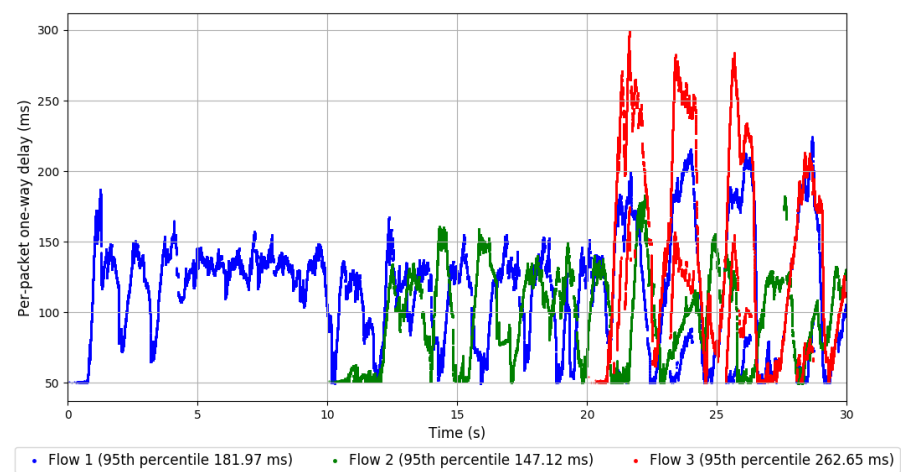
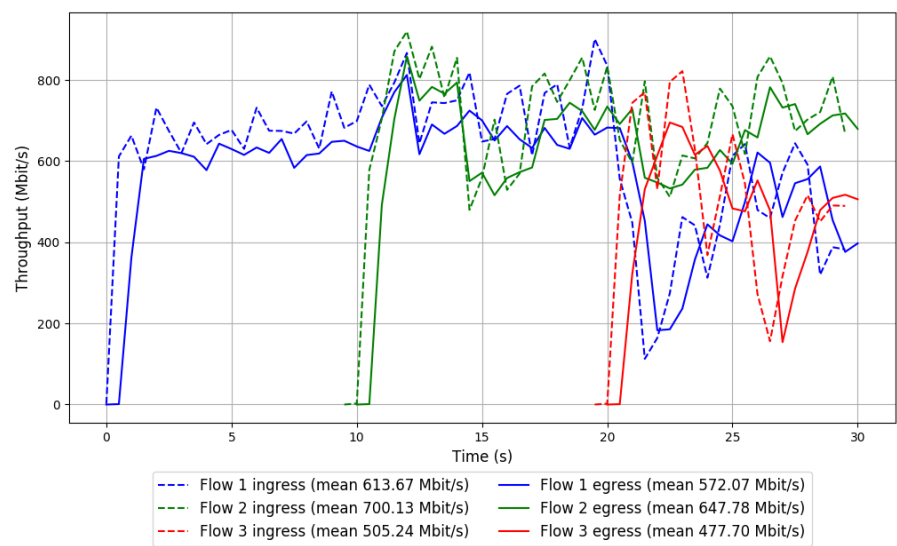
Run 7: Statistics of FillP

Start at: 2018-07-01 18:59:14  
End at: 2018-07-01 18:59:44  
Local clock offset: 0.074 ms  
Remote clock offset: -0.061 ms

# Below is generated by plot.py at 2018-07-01 21:33:30  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1162.12 Mbit/s  
95th percentile per-packet one-way delay: 202.934 ms  
Loss rate: 6.86%  
-- Flow 1:  
Average throughput: 572.07 Mbit/s  
95th percentile per-packet one-way delay: 181.967 ms  
Loss rate: 6.78%  
-- Flow 2:  
Average throughput: 647.78 Mbit/s  
95th percentile per-packet one-way delay: 147.122 ms  
Loss rate: 7.48%  
-- Flow 3:  
Average throughput: 477.70 Mbit/s  
95th percentile per-packet one-way delay: 262.651 ms  
Loss rate: 5.49%



Run 7: Report of FillP — Data Link

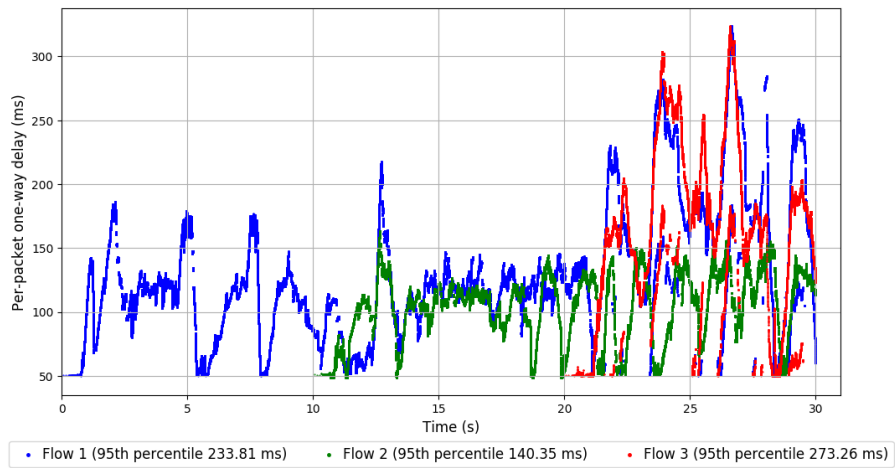
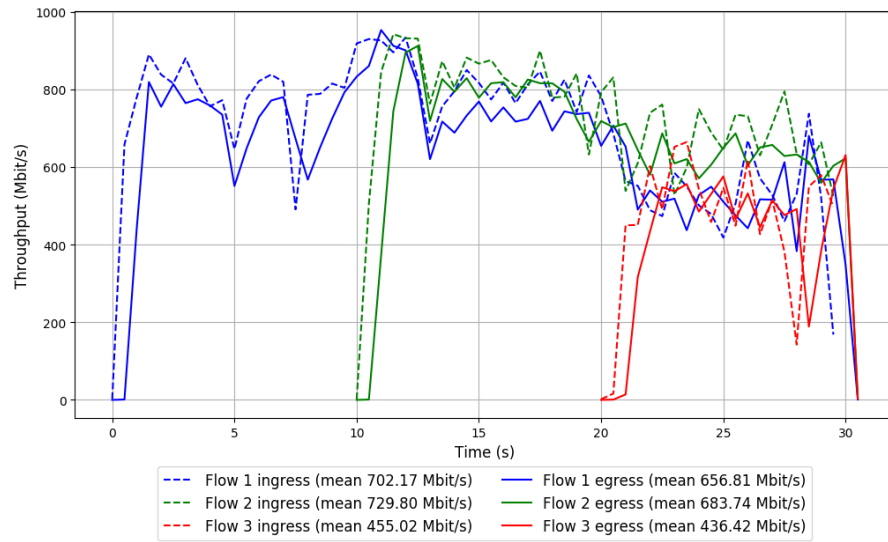


Run 8: Statistics of FillP

Start at: 2018-07-01 19:23:10  
End at: 2018-07-01 19:23:40  
Local clock offset: 0.221 ms  
Remote clock offset: -0.133 ms

# Below is generated by plot.py at 2018-07-01 21:33:52  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1256.93 Mbit/s  
95th percentile per-packet one-way delay: 230.063 ms  
Loss rate: 6.09%  
-- Flow 1:  
Average throughput: 656.81 Mbit/s  
95th percentile per-packet one-way delay: 233.805 ms  
Loss rate: 6.43%  
-- Flow 2:  
Average throughput: 683.74 Mbit/s  
95th percentile per-packet one-way delay: 140.346 ms  
Loss rate: 6.26%  
-- Flow 3:  
Average throughput: 436.42 Mbit/s  
95th percentile per-packet one-way delay: 273.257 ms  
Loss rate: 3.99%

# Run 8: Report of FillP — Data Link

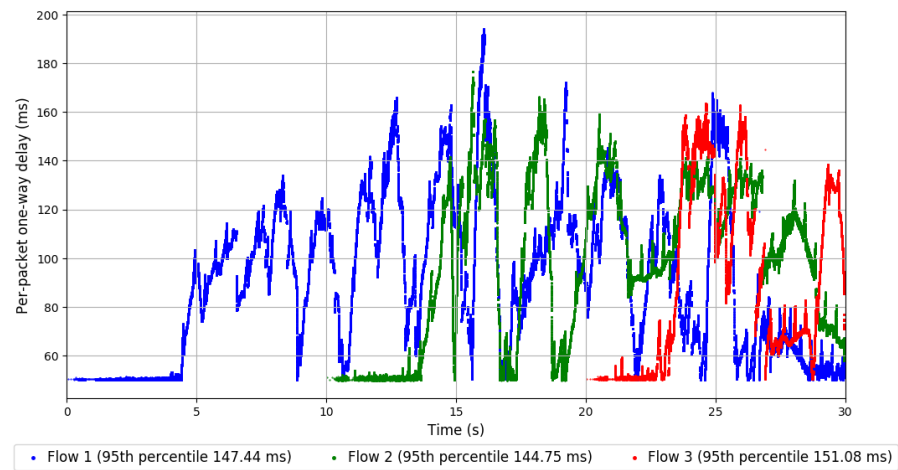
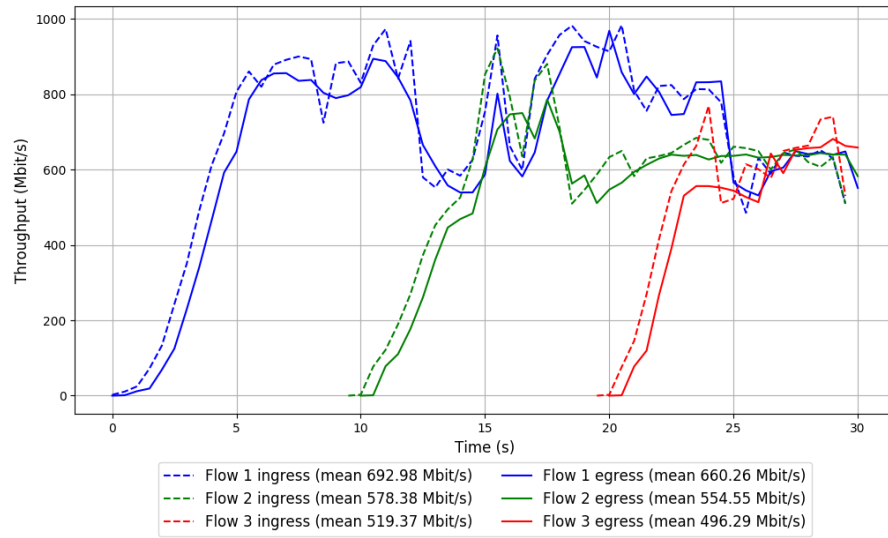


Run 9: Statistics of FillP

Start at: 2018-07-01 19:47:30  
End at: 2018-07-01 19:48:00  
Local clock offset: 0.495 ms  
Remote clock offset: -0.018 ms

# Below is generated by plot.py at 2018-07-01 21:54:27  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1194.33 Mbit/s  
95th percentile per-packet one-way delay: 147.991 ms  
Loss rate: 4.50%  
-- Flow 1:  
Average throughput: 660.26 Mbit/s  
95th percentile per-packet one-way delay: 147.443 ms  
Loss rate: 4.72%  
-- Flow 2:  
Average throughput: 554.55 Mbit/s  
95th percentile per-packet one-way delay: 144.747 ms  
Loss rate: 4.12%  
-- Flow 3:  
Average throughput: 496.29 Mbit/s  
95th percentile per-packet one-way delay: 151.083 ms  
Loss rate: 4.44%

## Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-07-01 20:11:49

End at: 2018-07-01 20:12:19

Local clock offset: 0.158 ms

Remote clock offset: 0.002 ms

# Below is generated by plot.py at 2018-07-01 21:55:15

# Datalink statistics

-- Total of 3 flows:

Average throughput: 1240.52 Mbit/s

95th percentile per-packet one-way delay: 215.830 ms

Loss rate: 5.29%

-- Flow 1:

Average throughput: 644.49 Mbit/s

95th percentile per-packet one-way delay: 207.367 ms

Loss rate: 4.39%

-- Flow 2:

Average throughput: 633.75 Mbit/s

95th percentile per-packet one-way delay: 156.989 ms

Loss rate: 7.45%

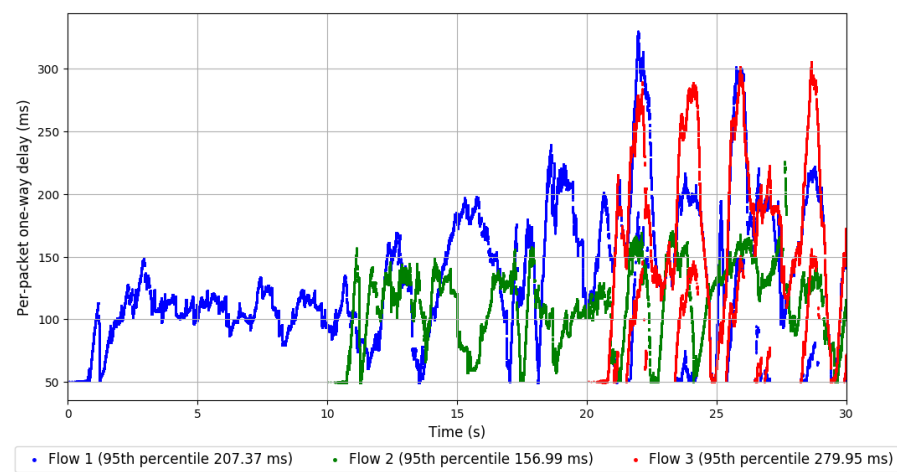
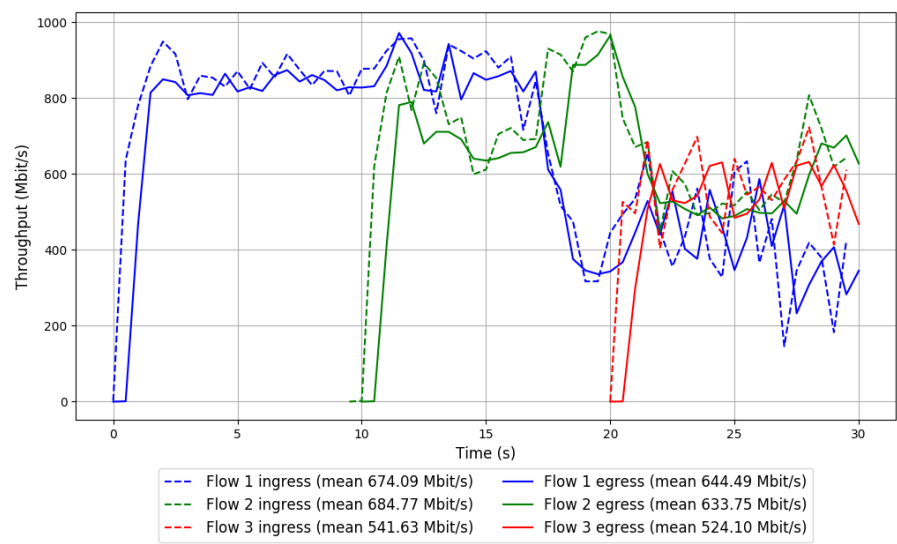
-- Flow 3:

Average throughput: 524.10 Mbit/s

95th percentile per-packet one-way delay: 279.950 ms

Loss rate: 3.22%

Run 10: Report of FillP — Data Link



Run 1: Statistics of FillP-Sheep

Start at: 2018-07-01 16:42:14

End at: 2018-07-01 16:42:44

Local clock offset: 0.069 ms

Remote clock offset: 0.018 ms

# Below is generated by plot.py at 2018-07-01 21:55:15

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 50.981 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 50.897 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 50.962 ms

Loss rate: 0.00%

-- Flow 3:

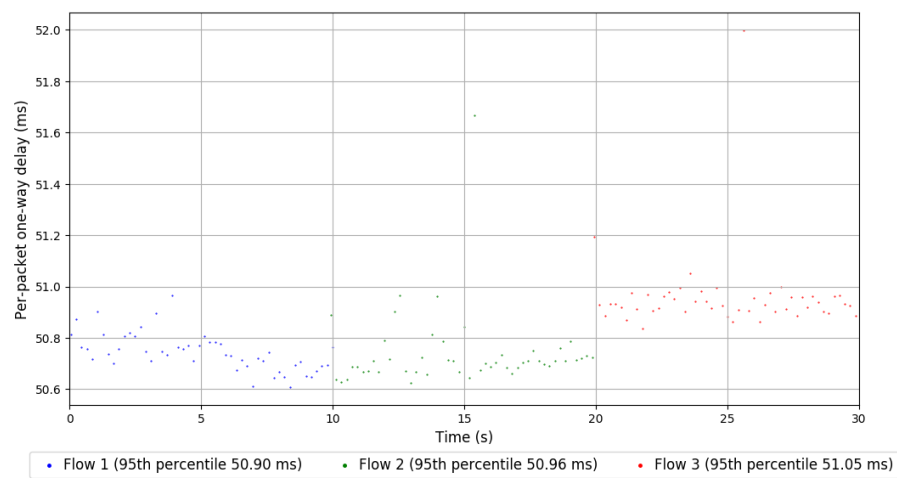
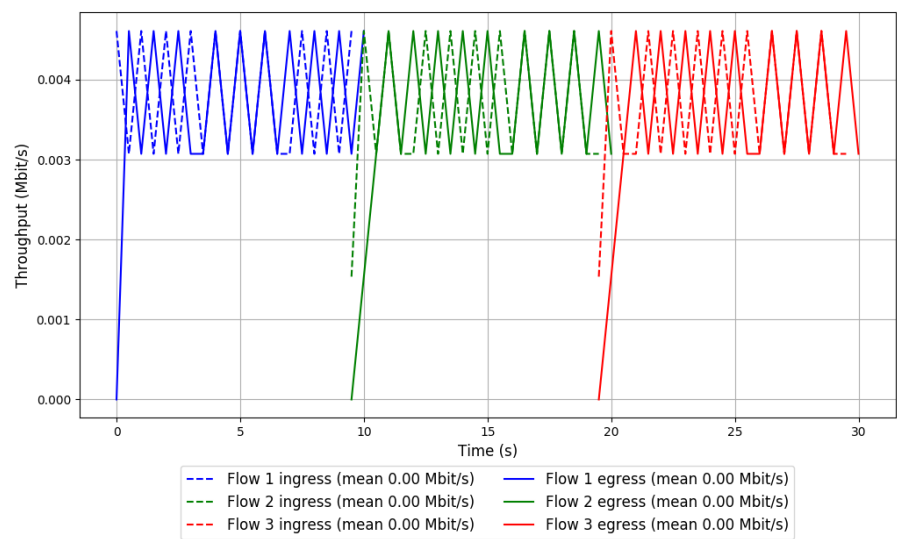
Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 51.052 ms

Loss rate: 0.00%



Run 1: Report of FillP-Sheep — Data Link

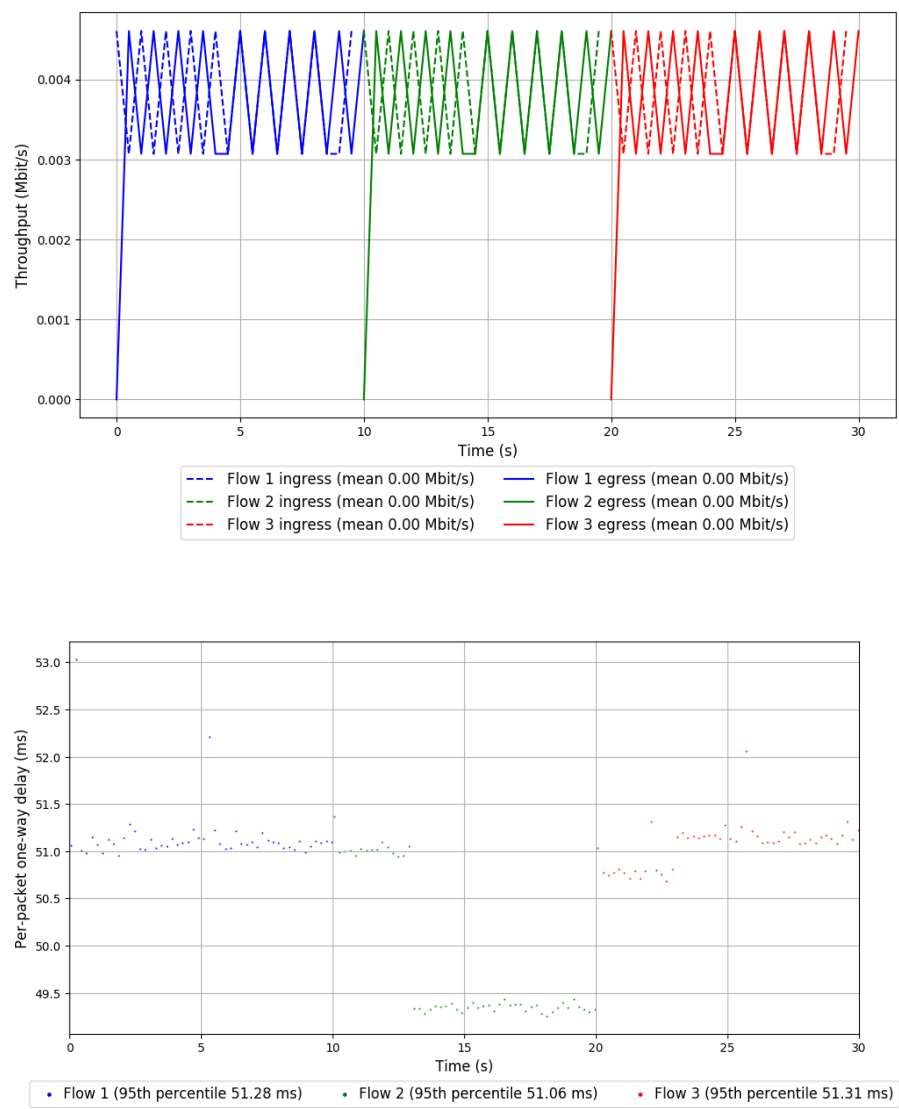


Run 2: Statistics of FillP-Sheep

Start at: 2018-07-01 17:06:27  
End at: 2018-07-01 17:06:57  
Local clock offset: -0.271 ms  
Remote clock offset: -0.008 ms

# Below is generated by plot.py at 2018-07-01 21:55:15  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.00 Mbit/s  
95th percentile per-packet one-way delay: 51.281 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.00 Mbit/s  
95th percentile per-packet one-way delay: 51.283 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.00 Mbit/s  
95th percentile per-packet one-way delay: 51.056 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.00 Mbit/s  
95th percentile per-packet one-way delay: 51.314 ms  
Loss rate: 0.00%

Run 2: Report of FillP-Sheep — Data Link



Run 3: Statistics of FillP-Sheep

Start at: 2018-07-01 17:30:35

End at: 2018-07-01 17:31:05

Local clock offset: 0.133 ms

Remote clock offset: -0.04 ms

# Below is generated by plot.py at 2018-07-01 21:55:15

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 50.836 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 50.963 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 50.836 ms

Loss rate: 0.00%

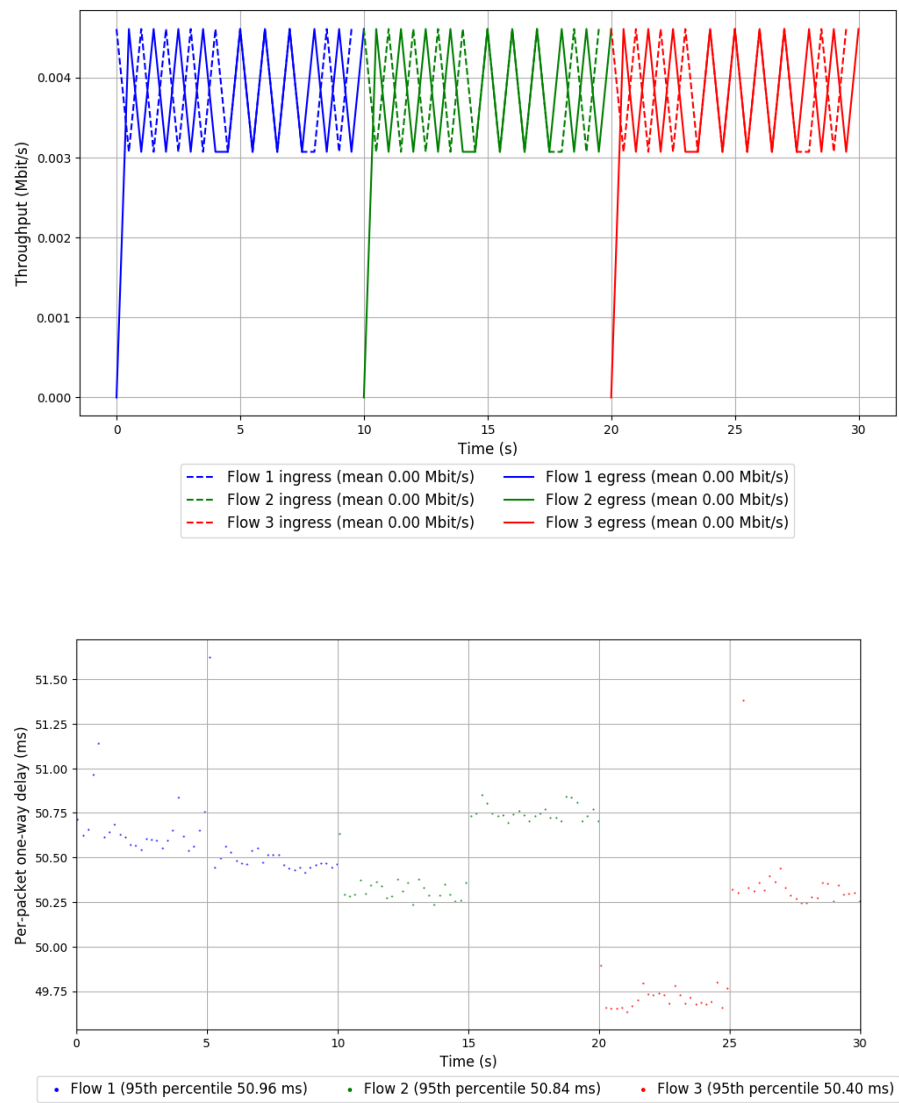
-- Flow 3:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 50.399 ms

Loss rate: 0.00%

Run 3: Report of FillP-Sheep — Data Link

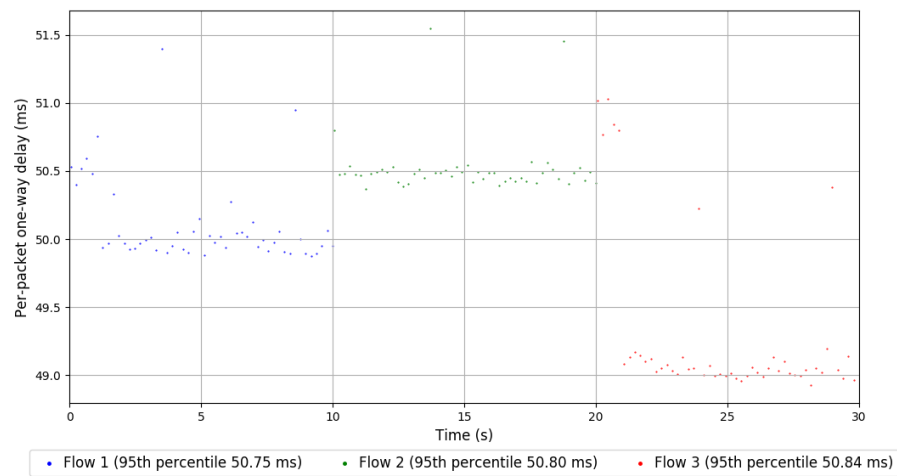
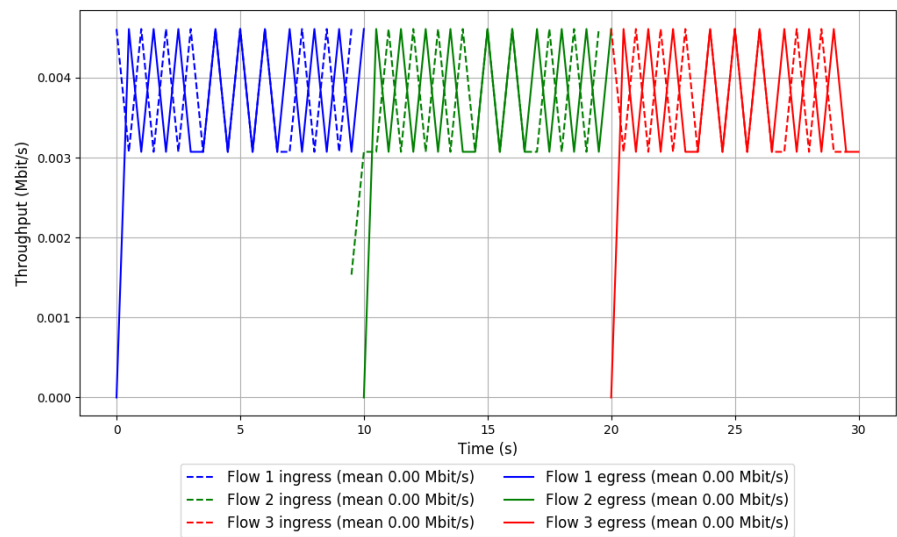


Run 4: Statistics of FillP-Sheep

Start at: 2018-07-01 17:54:39  
End at: 2018-07-01 17:55:09  
Local clock offset: 0.091 ms  
Remote clock offset: -0.104 ms

# Below is generated by plot.py at 2018-07-01 21:55:15  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.00 Mbit/s  
95th percentile per-packet one-way delay: 50.797 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.00 Mbit/s  
95th percentile per-packet one-way delay: 50.754 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.00 Mbit/s  
95th percentile per-packet one-way delay: 50.795 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.00 Mbit/s  
95th percentile per-packet one-way delay: 50.842 ms  
Loss rate: 0.00%

Run 4: Report of FillP-Sheep — Data Link



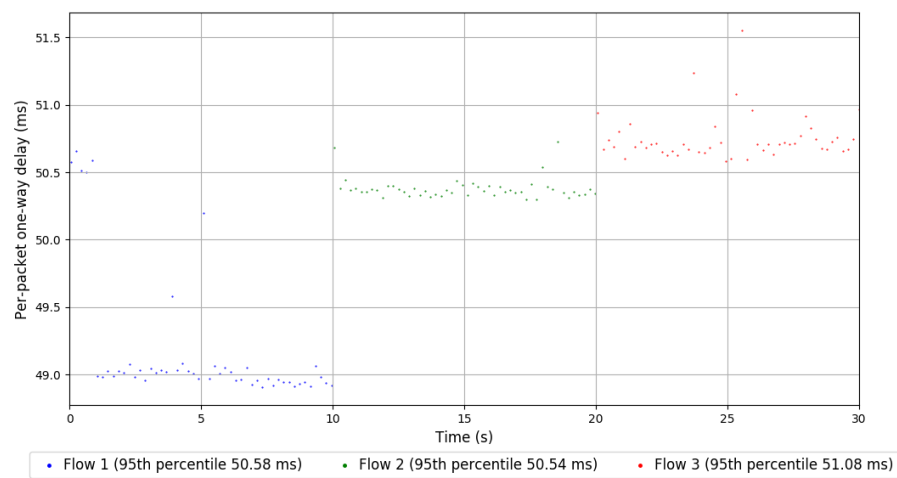
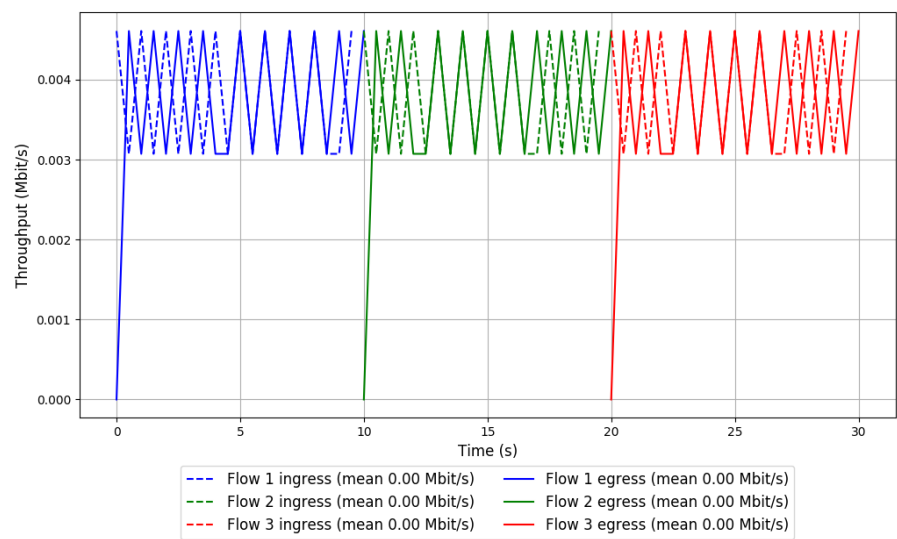
Run 5: Statistics of FillP-Sheep

Start at: 2018-07-01 18:18:39  
End at: 2018-07-01 18:19:09  
Local clock offset: 0.073 ms  
Remote clock offset: -0.198 ms

# Below is generated by plot.py at 2018-07-01 21:55:15  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.00 Mbit/s  
95th percentile per-packet one-way delay: 50.862 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.00 Mbit/s  
95th percentile per-packet one-way delay: 50.575 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.00 Mbit/s  
95th percentile per-packet one-way delay: 50.540 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.00 Mbit/s  
95th percentile per-packet one-way delay: 51.078 ms  
Loss rate: 0.00%



Run 5: Report of FillP-Sheep — Data Link

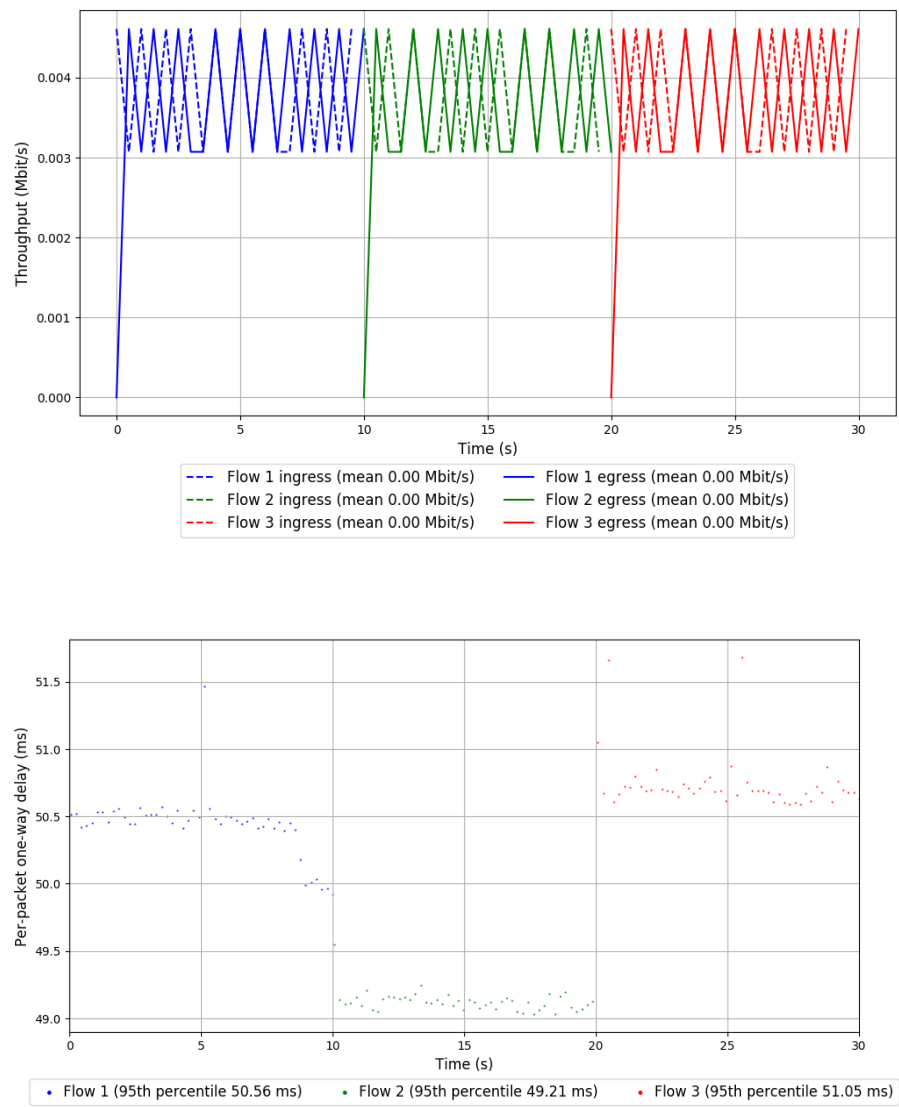


Run 6: Statistics of FillP-Sheep

Start at: 2018-07-01 18:42:41  
End at: 2018-07-01 18:43:11  
Local clock offset: -0.025 ms  
Remote clock offset: -0.004 ms

# Below is generated by plot.py at 2018-07-01 21:55:15  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.00 Mbit/s  
95th percentile per-packet one-way delay: 50.799 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.00 Mbit/s  
95th percentile per-packet one-way delay: 50.564 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.00 Mbit/s  
95th percentile per-packet one-way delay: 49.207 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.00 Mbit/s  
95th percentile per-packet one-way delay: 51.048 ms  
Loss rate: 0.00%

Run 6: Report of FillP-Sheep — Data Link

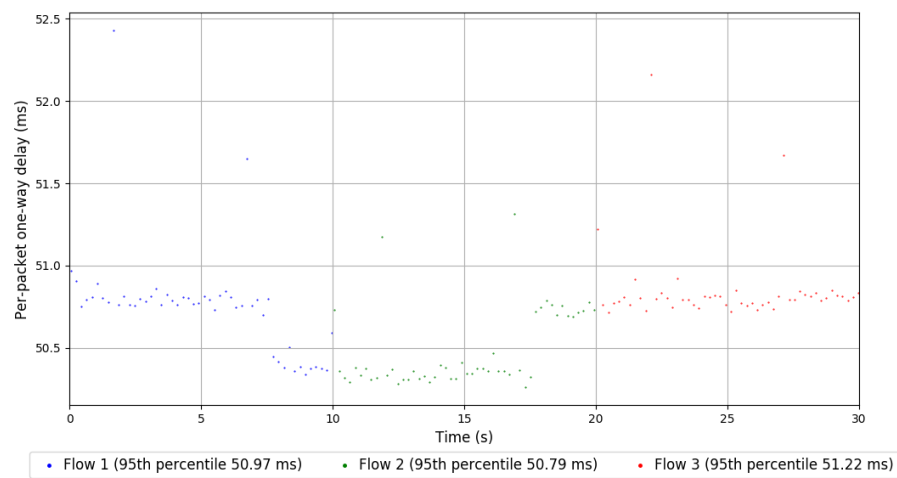
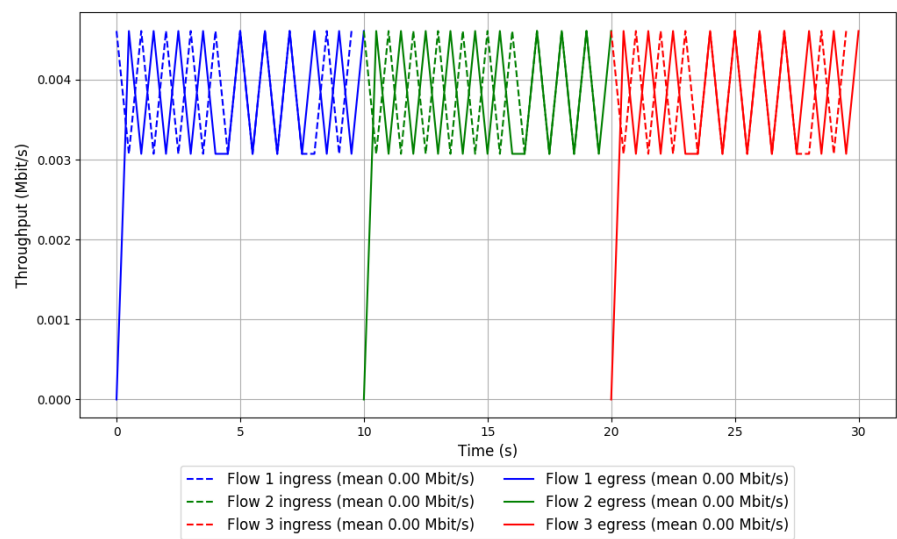


Run 7: Statistics of FillP-Sheep

Start at: 2018-07-01 19:06:42  
End at: 2018-07-01 19:07:12  
Local clock offset: 0.133 ms  
Remote clock offset: -0.097 ms

# Below is generated by plot.py at 2018-07-01 21:55:15  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.00 Mbit/s  
95th percentile per-packet one-way delay: 50.967 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.00 Mbit/s  
95th percentile per-packet one-way delay: 50.967 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.00 Mbit/s  
95th percentile per-packet one-way delay: 50.786 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.00 Mbit/s  
95th percentile per-packet one-way delay: 51.218 ms  
Loss rate: 0.00%

Run 7: Report of FillP-Sheep — Data Link

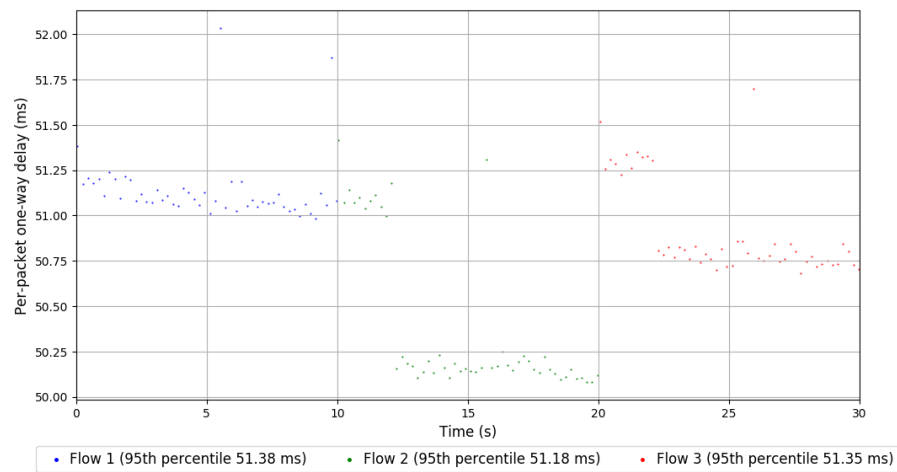
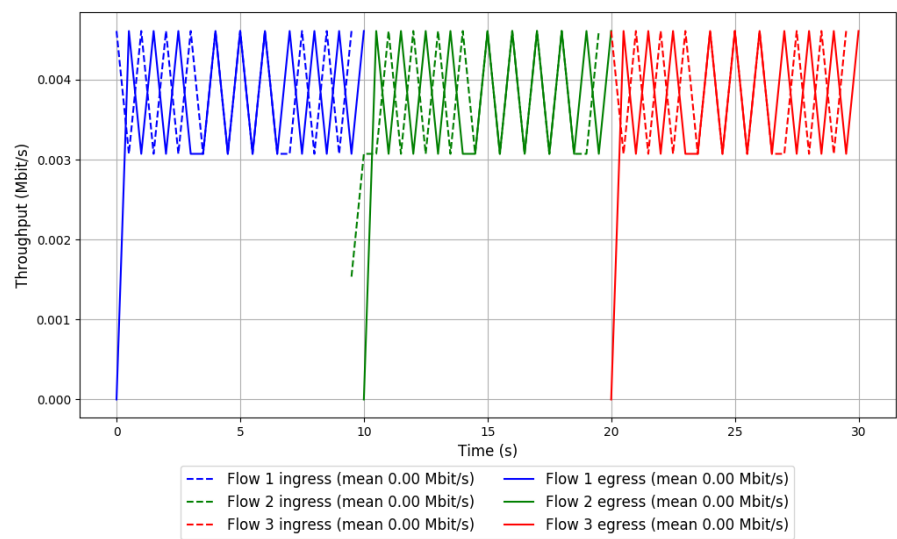


Run 8: Statistics of FillP-Sheep

Start at: 2018-07-01 19:30:48  
End at: 2018-07-01 19:31:18  
Local clock offset: -0.198 ms  
Remote clock offset: -0.038 ms

# Below is generated by plot.py at 2018-07-01 21:55:15  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.00 Mbit/s  
95th percentile per-packet one-way delay: 51.338 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.00 Mbit/s  
95th percentile per-packet one-way delay: 51.382 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.00 Mbit/s  
95th percentile per-packet one-way delay: 51.179 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.00 Mbit/s  
95th percentile per-packet one-way delay: 51.349 ms  
Loss rate: 0.00%

Run 8: Report of FillP-Sheep — Data Link



Run 9: Statistics of FillP-Sheep

Start at: 2018-07-01 19:55:08

End at: 2018-07-01 19:55:38

Local clock offset: 0.113 ms

Remote clock offset: 0.0 ms

# Below is generated by plot.py at 2018-07-01 21:55:15

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 50.834 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 50.859 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 50.061 ms

Loss rate: 0.00%

-- Flow 3:

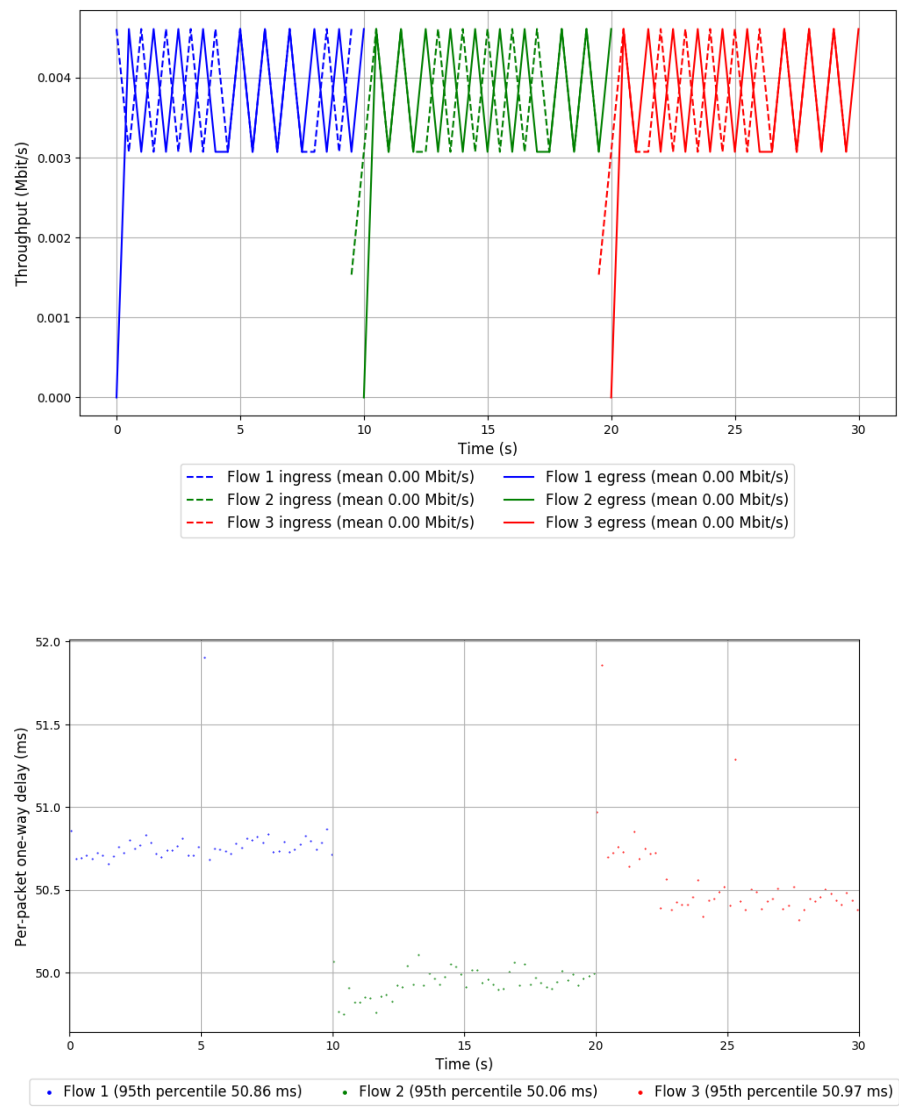
Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 50.972 ms

Loss rate: 0.00%



Run 9: Report of FillP-Sheep — Data Link



Run 10: Statistics of FillP-Sheep

Start at: 2018-07-01 20:19:27

End at: 2018-07-01 20:19:57

Local clock offset: 0.12 ms

Remote clock offset: -0.02 ms

# Below is generated by plot.py at 2018-07-01 21:55:15

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 50.984 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 50.666 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 50.912 ms

Loss rate: 0.00%

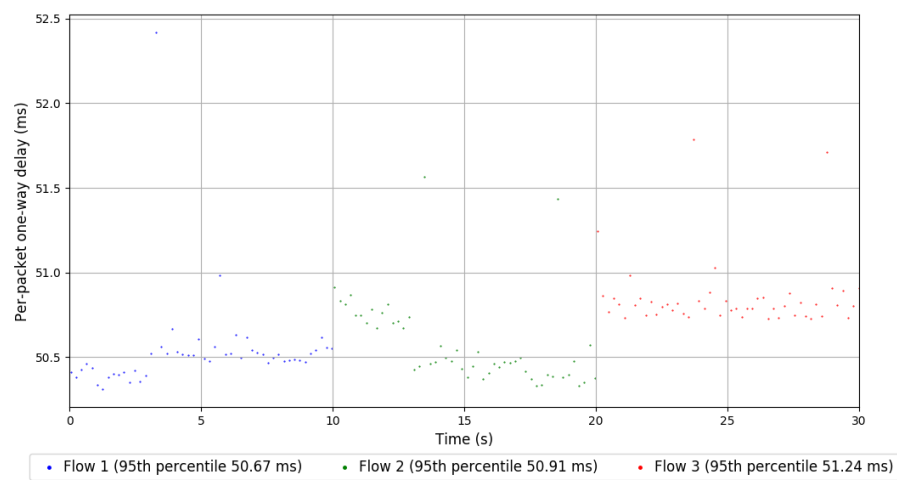
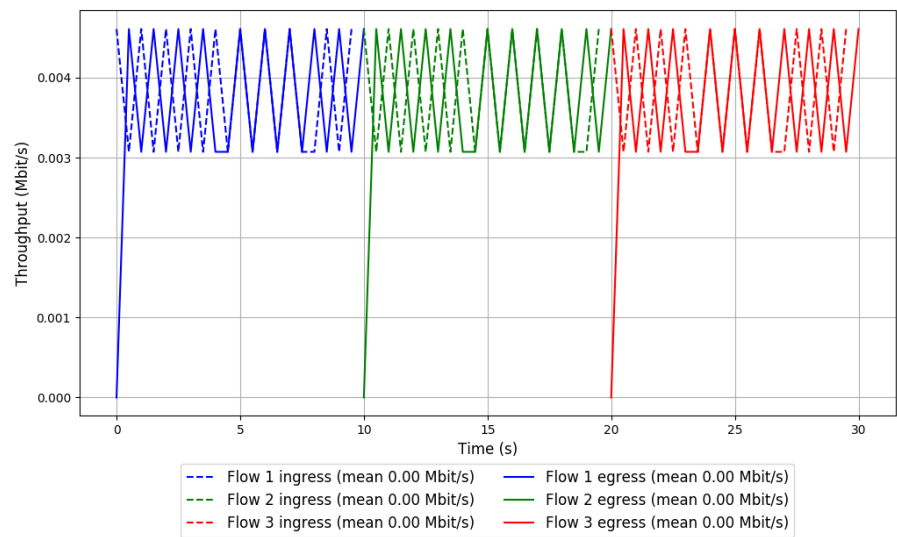
-- Flow 3:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 51.244 ms

Loss rate: 0.00%

Run 10: Report of FillP-Sheep — Data Link

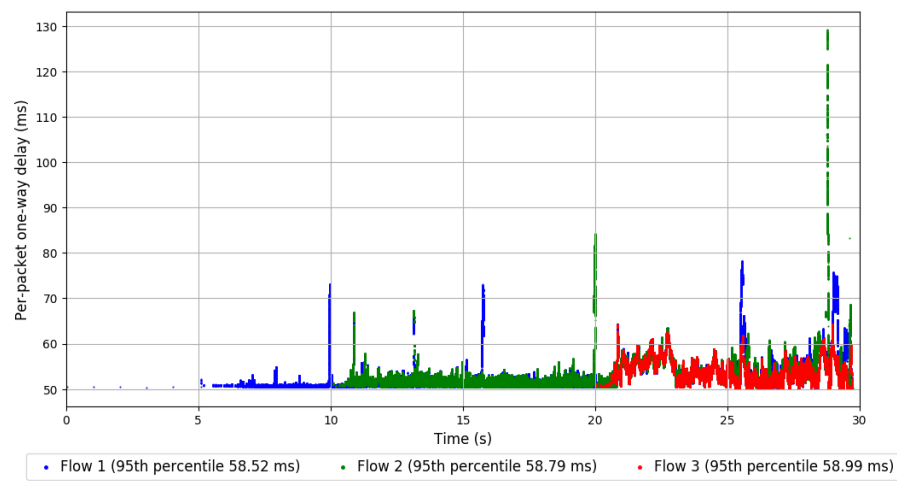
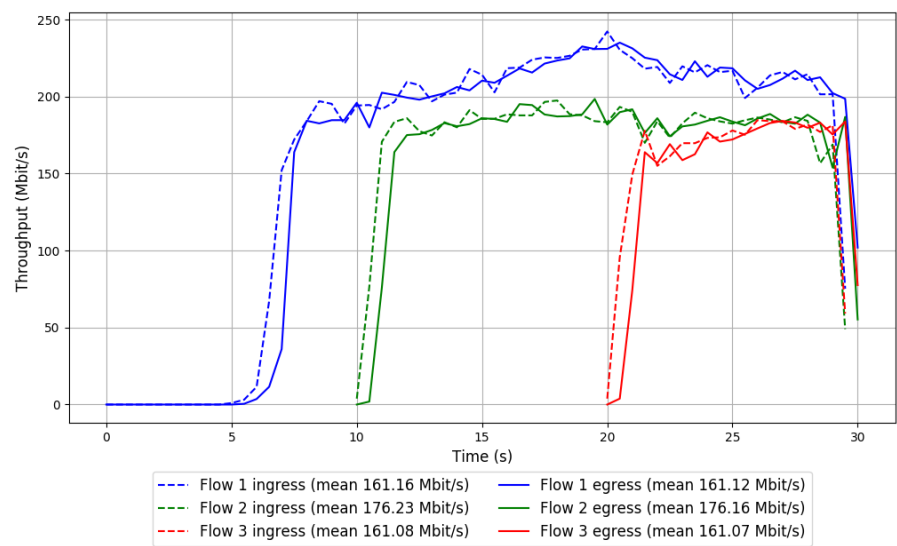


Run 1: Statistics of Indigo

Start at: 2018-07-01 16:25:35  
End at: 2018-07-01 16:26:05  
Local clock offset: 0.047 ms  
Remote clock offset: -0.031 ms

# Below is generated by plot.py at 2018-07-01 21:55:15  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 330.09 Mbit/s  
95th percentile per-packet one-way delay: 58.747 ms  
Loss rate: 0.03%  
-- Flow 1:  
Average throughput: 161.12 Mbit/s  
95th percentile per-packet one-way delay: 58.517 ms  
Loss rate: 0.03%  
-- Flow 2:  
Average throughput: 176.16 Mbit/s  
95th percentile per-packet one-way delay: 58.788 ms  
Loss rate: 0.05%  
-- Flow 3:  
Average throughput: 161.07 Mbit/s  
95th percentile per-packet one-way delay: 58.986 ms  
Loss rate: 0.00%

Run 1: Report of Indigo — Data Link

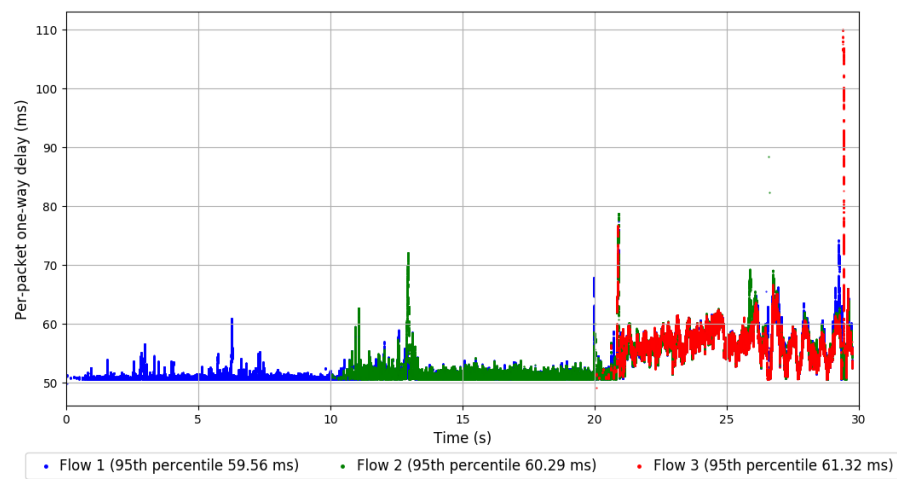
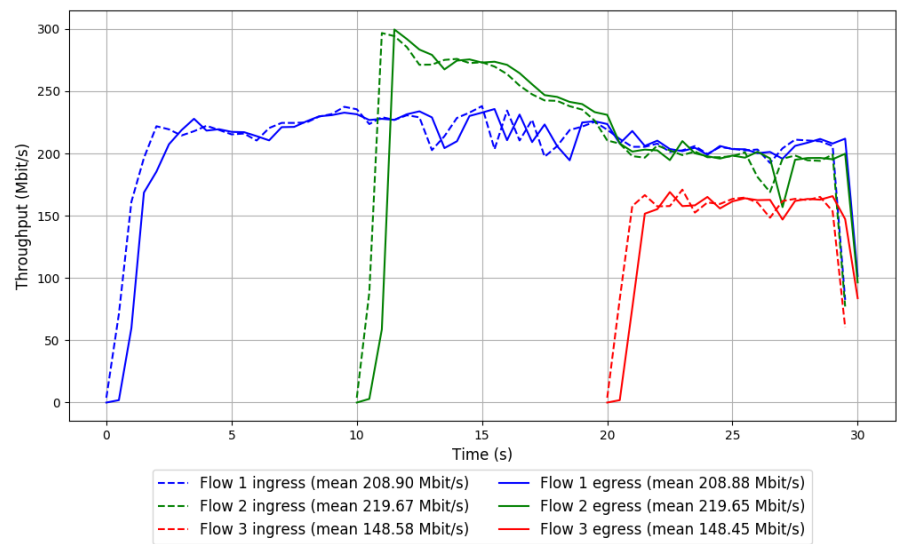


Run 2: Statistics of Indigo

Start at: 2018-07-01 16:49:40  
End at: 2018-07-01 16:50:10  
Local clock offset: 0.065 ms  
Remote clock offset: -0.004 ms

# Below is generated by plot.py at 2018-07-01 21:55:15  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 402.86 Mbit/s  
95th percentile per-packet one-way delay: 60.199 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 208.88 Mbit/s  
95th percentile per-packet one-way delay: 59.556 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 219.65 Mbit/s  
95th percentile per-packet one-way delay: 60.289 ms  
Loss rate: 0.01%  
-- Flow 3:  
Average throughput: 148.45 Mbit/s  
95th percentile per-packet one-way delay: 61.319 ms  
Loss rate: 0.02%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-07-01 17:13:54

End at: 2018-07-01 17:14:24

Local clock offset: 0.456 ms

Remote clock offset: -0.0 ms

# Below is generated by plot.py at 2018-07-01 21:55:15

# Datalink statistics

-- Total of 3 flows:

Average throughput: 401.41 Mbit/s

95th percentile per-packet one-way delay: 57.493 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 212.03 Mbit/s

95th percentile per-packet one-way delay: 57.598 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 203.30 Mbit/s

95th percentile per-packet one-way delay: 58.467 ms

Loss rate: 0.01%

-- Flow 3:

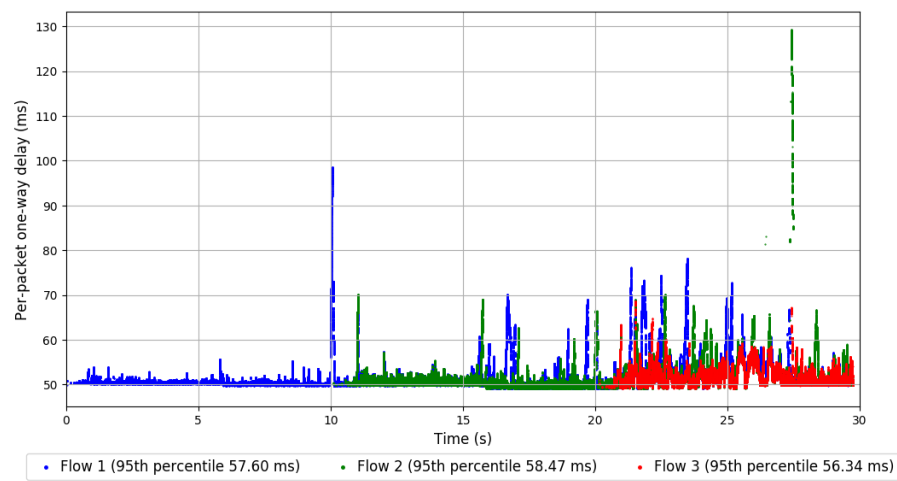
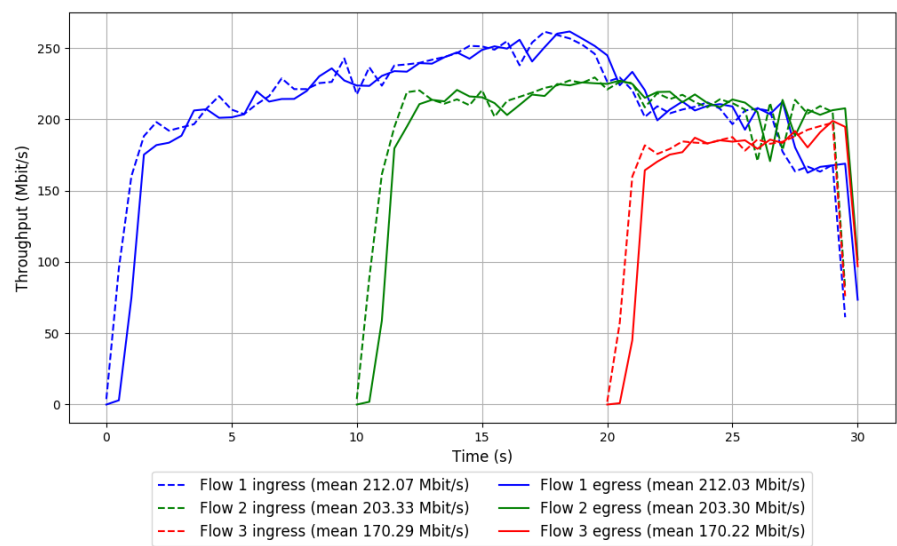
Average throughput: 170.22 Mbit/s

95th percentile per-packet one-way delay: 56.342 ms

Loss rate: 0.02%



Run 3: Report of Indigo — Data Link

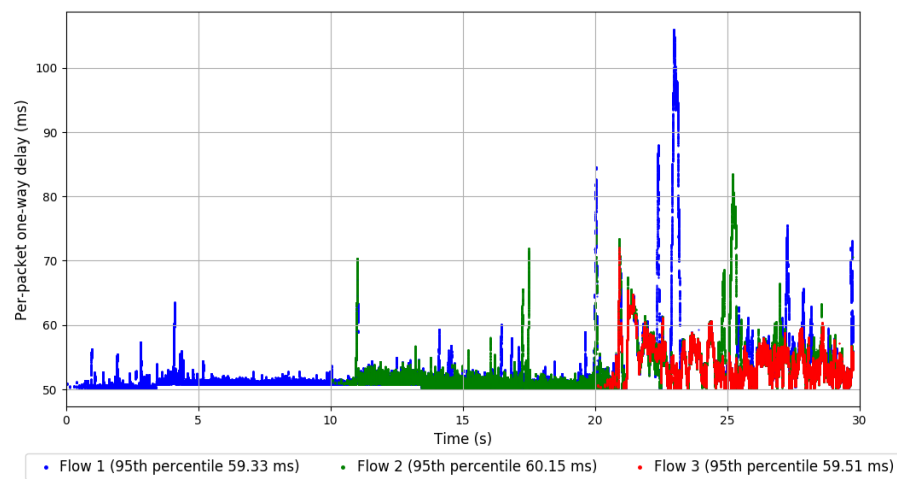
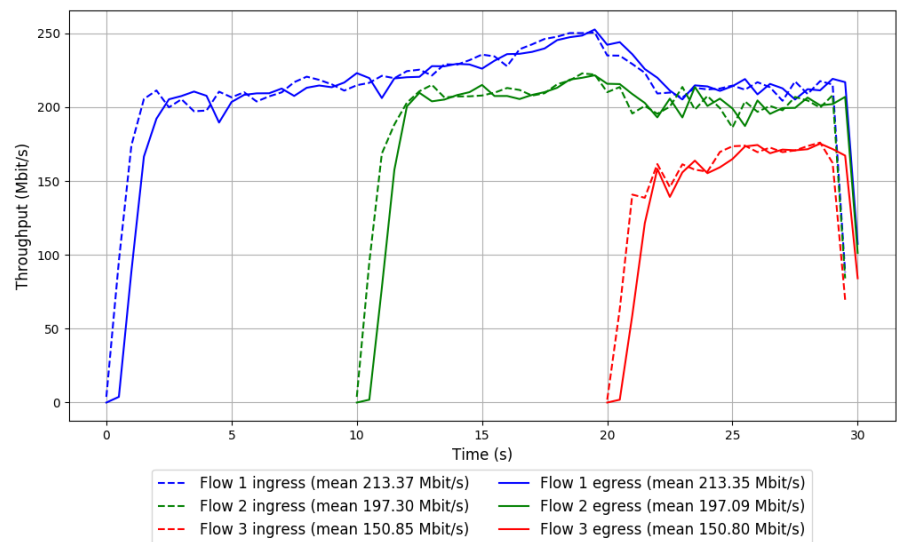


Run 4: Statistics of Indigo

Start at: 2018-07-01 17:37:56  
End at: 2018-07-01 17:38:26  
Local clock offset: 0.107 ms  
Remote clock offset: -0.017 ms

# Below is generated by plot.py at 2018-07-01 21:55:15  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 392.89 Mbit/s  
95th percentile per-packet one-way delay: 59.598 ms  
Loss rate: 0.04%  
-- Flow 1:  
Average throughput: 213.35 Mbit/s  
95th percentile per-packet one-way delay: 59.332 ms  
Loss rate: 0.02%  
-- Flow 2:  
Average throughput: 197.09 Mbit/s  
95th percentile per-packet one-way delay: 60.154 ms  
Loss rate: 0.09%  
-- Flow 3:  
Average throughput: 150.80 Mbit/s  
95th percentile per-packet one-way delay: 59.510 ms  
Loss rate: 0.03%

Run 4: Report of Indigo — Data Link

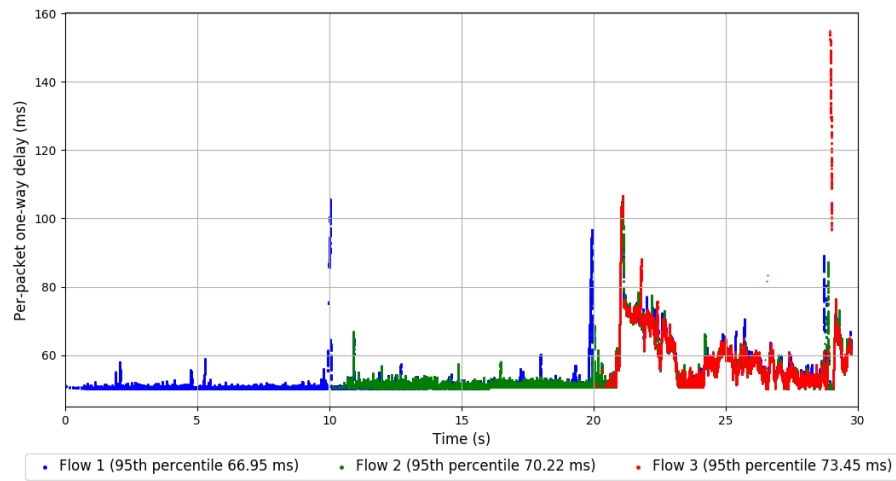
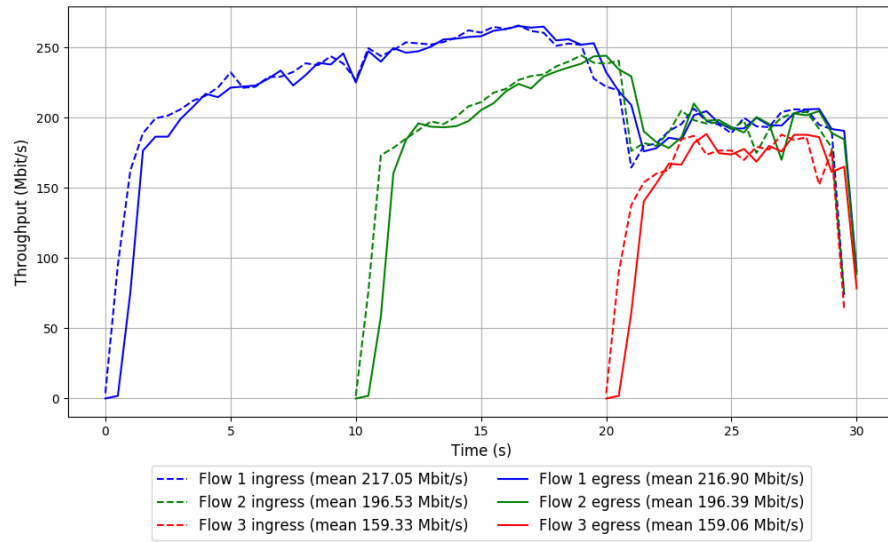


Run 5: Statistics of Indigo

Start at: 2018-07-01 18:02:04  
End at: 2018-07-01 18:02:34  
Local clock offset: 0.055 ms  
Remote clock offset: -0.136 ms

# Below is generated by plot.py at 2018-07-01 21:55:15  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 398.48 Mbit/s  
95th percentile per-packet one-way delay: 70.255 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 216.90 Mbit/s  
95th percentile per-packet one-way delay: 66.952 ms  
Loss rate: 0.07%  
-- Flow 2:  
Average throughput: 196.39 Mbit/s  
95th percentile per-packet one-way delay: 70.222 ms  
Loss rate: 0.07%  
-- Flow 3:  
Average throughput: 159.06 Mbit/s  
95th percentile per-packet one-way delay: 73.453 ms  
Loss rate: 0.20%

## Run 5: Report of Indigo — Data Link

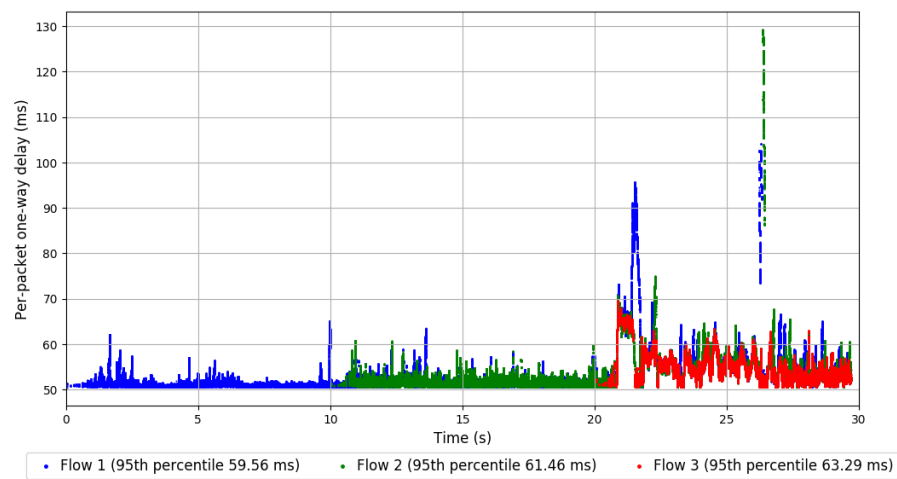
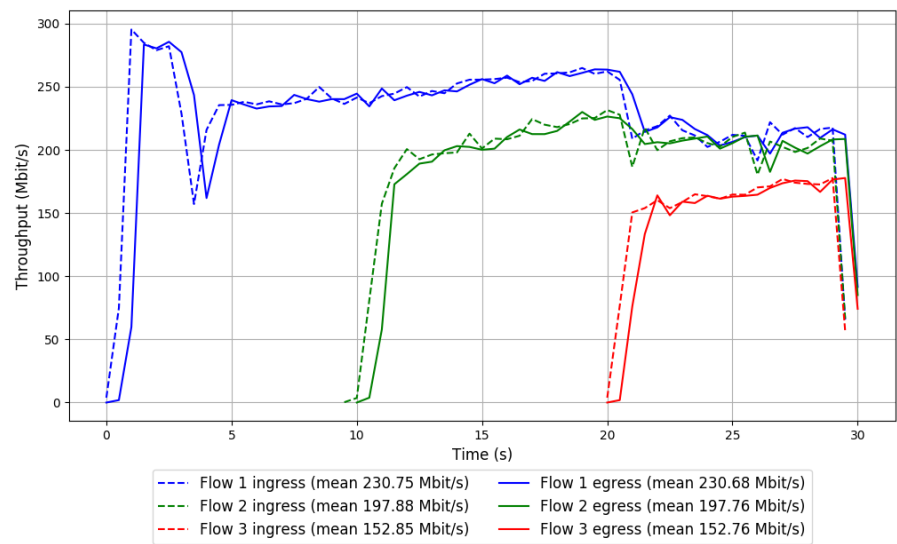


Run 6: Statistics of Indigo

Start at: 2018-07-01 18:26:01  
End at: 2018-07-01 18:26:31  
Local clock offset: 0.022 ms  
Remote clock offset: -0.089 ms

# Below is generated by plot.py at 2018-07-01 21:55:15  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 411.46 Mbit/s  
95th percentile per-packet one-way delay: 60.744 ms  
Loss rate: 0.05%  
-- Flow 1:  
Average throughput: 230.68 Mbit/s  
95th percentile per-packet one-way delay: 59.560 ms  
Loss rate: 0.03%  
-- Flow 2:  
Average throughput: 197.76 Mbit/s  
95th percentile per-packet one-way delay: 61.456 ms  
Loss rate: 0.07%  
-- Flow 3:  
Average throughput: 152.76 Mbit/s  
95th percentile per-packet one-way delay: 63.291 ms  
Loss rate: 0.09%

Run 6: Report of Indigo — Data Link



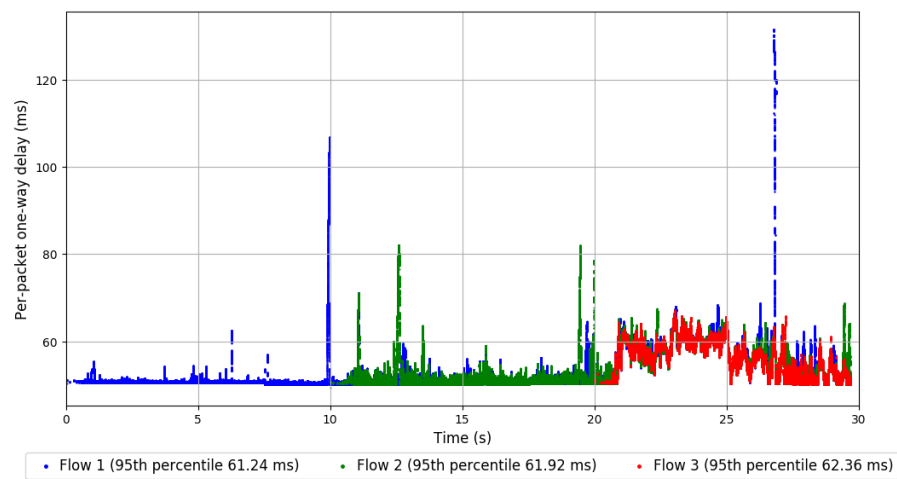
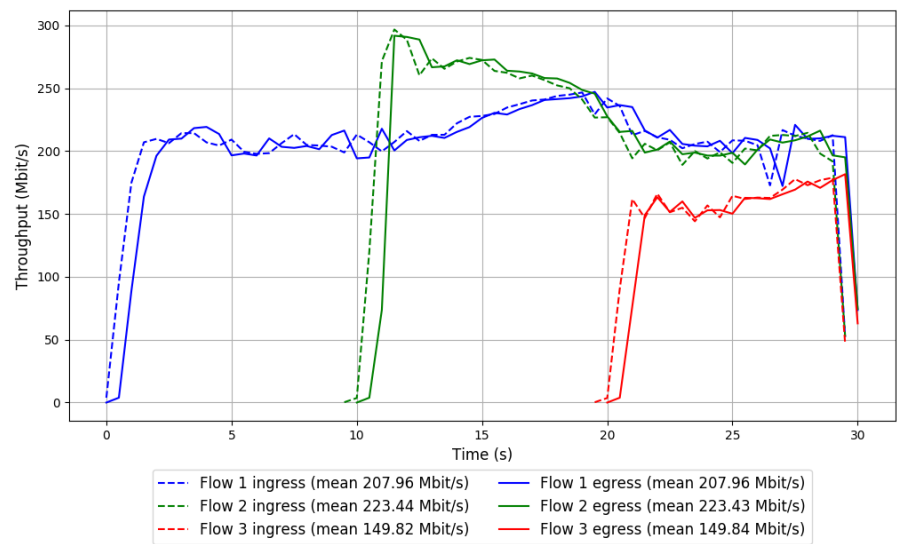
Run 7: Statistics of Indigo

Start at: 2018-07-01 18:50:02  
End at: 2018-07-01 18:50:32  
Local clock offset: 0.018 ms  
Remote clock offset: -0.019 ms

# Below is generated by plot.py at 2018-07-01 21:55:15  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 405.15 Mbit/s  
95th percentile per-packet one-way delay: 61.706 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 207.96 Mbit/s  
95th percentile per-packet one-way delay: 61.236 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 223.43 Mbit/s  
95th percentile per-packet one-way delay: 61.918 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 149.84 Mbit/s  
95th percentile per-packet one-way delay: 62.360 ms  
Loss rate: 0.00%



Run 7: Report of Indigo — Data Link

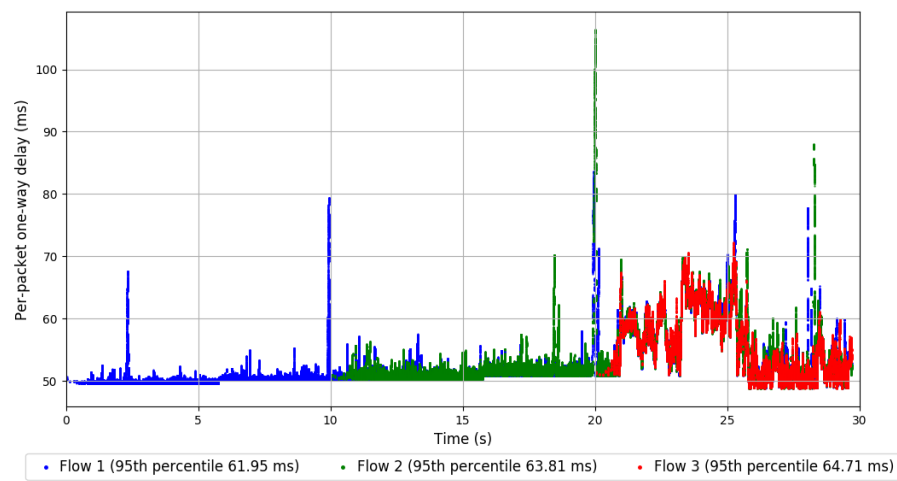
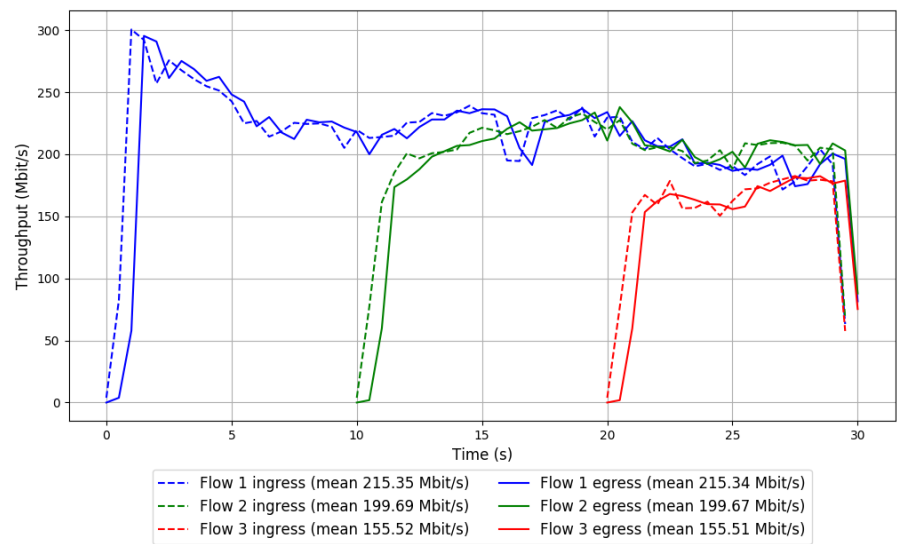


Run 8: Statistics of Indigo

Start at: 2018-07-01 19:14:04  
End at: 2018-07-01 19:14:34  
Local clock offset: 0.143 ms  
Remote clock offset: -0.099 ms

# Below is generated by plot.py at 2018-07-01 21:55:15  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 398.25 Mbit/s  
95th percentile per-packet one-way delay: 63.367 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 215.34 Mbit/s  
95th percentile per-packet one-way delay: 61.946 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 199.67 Mbit/s  
95th percentile per-packet one-way delay: 63.814 ms  
Loss rate: 0.02%  
-- Flow 3:  
Average throughput: 155.51 Mbit/s  
95th percentile per-packet one-way delay: 64.709 ms  
Loss rate: 0.03%

Run 8: Report of Indigo — Data Link

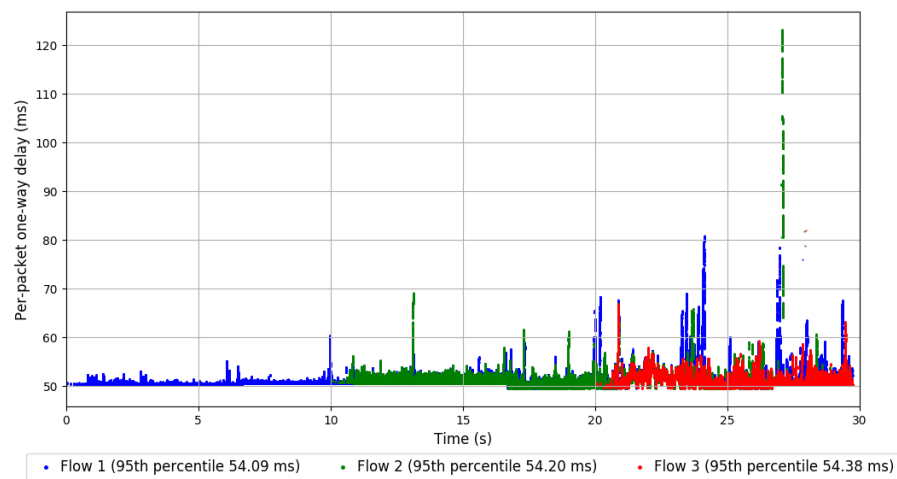
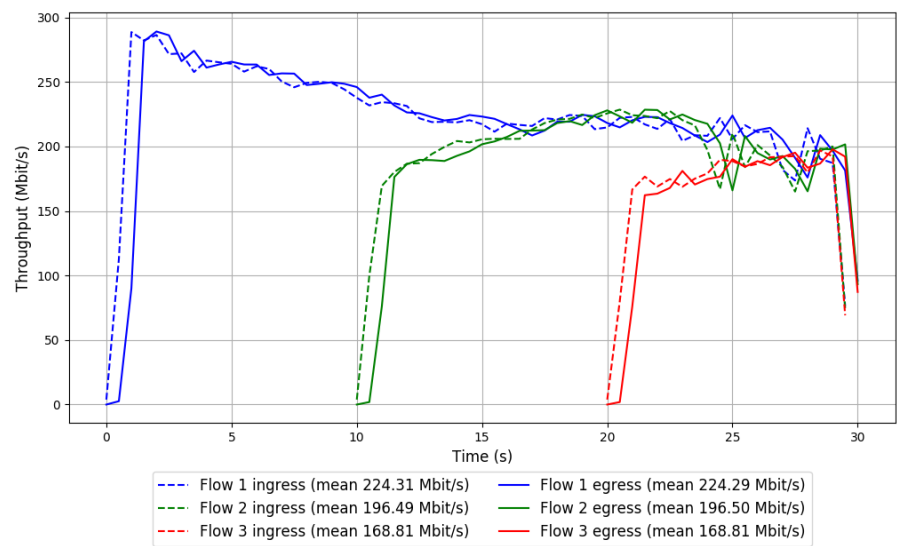


Run 9: Statistics of Indigo

Start at: 2018-07-01 19:38:13  
End at: 2018-07-01 19:38:43  
Local clock offset: 0.103 ms  
Remote clock offset: -0.036 ms

# Below is generated by plot.py at 2018-07-01 21:55:15  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 409.36 Mbit/s  
95th percentile per-packet one-way delay: 54.205 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 224.29 Mbit/s  
95th percentile per-packet one-way delay: 54.095 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 196.50 Mbit/s  
95th percentile per-packet one-way delay: 54.197 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 168.81 Mbit/s  
95th percentile per-packet one-way delay: 54.384 ms  
Loss rate: 0.01%

Run 9: Report of Indigo — Data Link

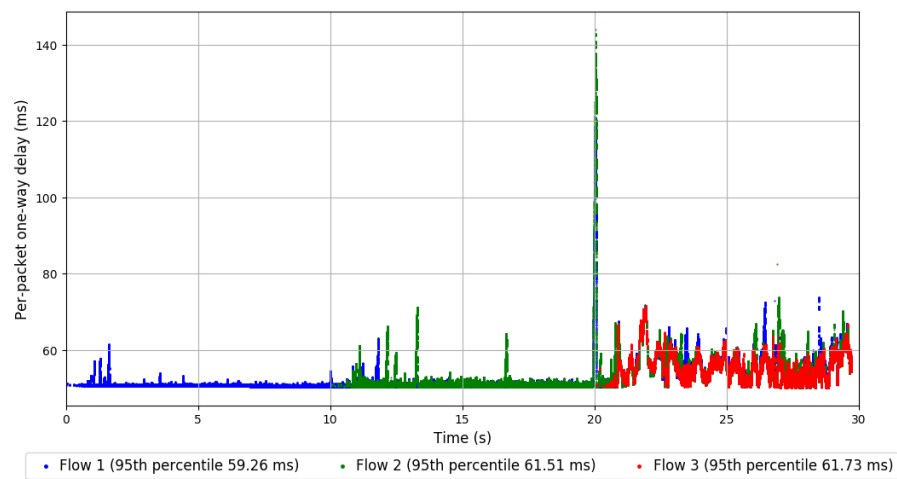
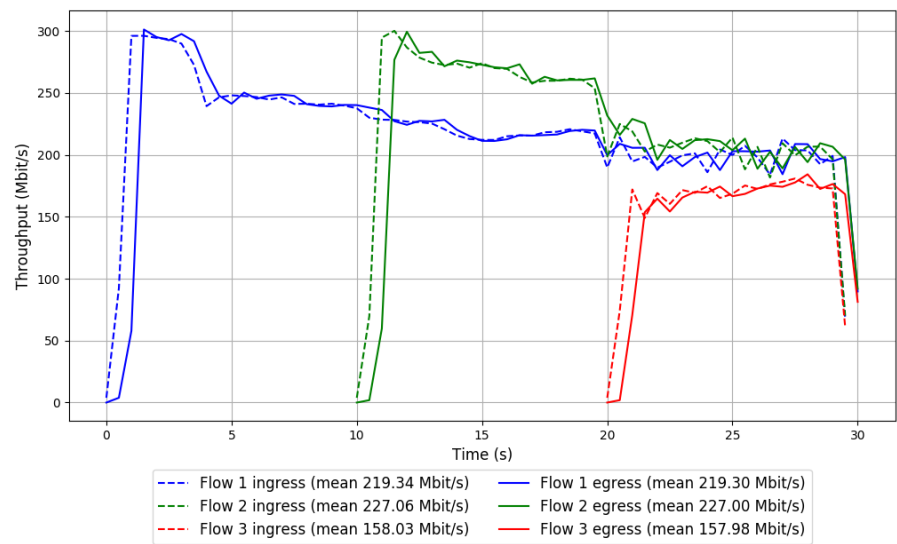


Run 10: Statistics of Indigo

Start at: 2018-07-01 20:02:33  
End at: 2018-07-01 20:03:03  
Local clock offset: 0.149 ms  
Remote clock offset: -0.008 ms

# Below is generated by plot.py at 2018-07-01 21:55:15  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 420.96 Mbit/s  
95th percentile per-packet one-way delay: 60.655 ms  
Loss rate: 0.03%  
-- Flow 1:  
Average throughput: 219.30 Mbit/s  
95th percentile per-packet one-way delay: 59.257 ms  
Loss rate: 0.02%  
-- Flow 2:  
Average throughput: 227.00 Mbit/s  
95th percentile per-packet one-way delay: 61.513 ms  
Loss rate: 0.02%  
-- Flow 3:  
Average throughput: 157.98 Mbit/s  
95th percentile per-packet one-way delay: 61.733 ms  
Loss rate: 0.06%

Run 10: Report of Indigo — Data Link



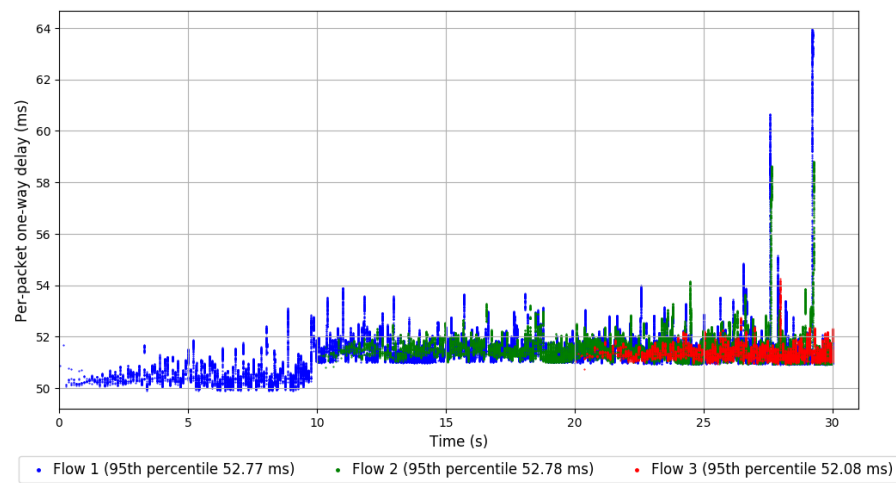
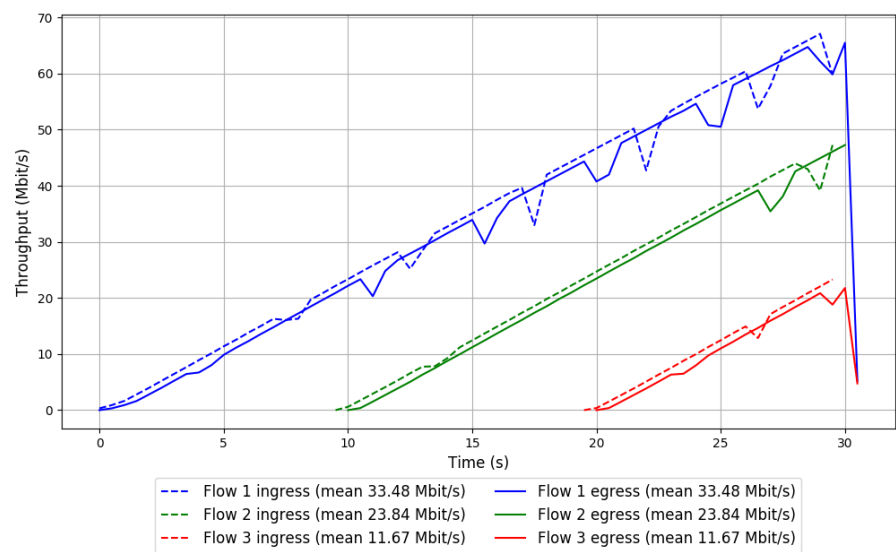
```
Run 1: Statistics of LEDBAT

Start at: 2018-07-01 16:44:30
End at: 2018-07-01 16:45:00
Local clock offset: -0.314 ms
Remote clock offset: 0.006 ms

# Below is generated by plot.py at 2018-07-01 21:55:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 53.22 Mbit/s
95th percentile per-packet one-way delay: 52.730 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 33.48 Mbit/s
95th percentile per-packet one-way delay: 52.770 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 23.84 Mbit/s
95th percentile per-packet one-way delay: 52.780 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 11.67 Mbit/s
95th percentile per-packet one-way delay: 52.081 ms
Loss rate: 0.00%
```



Run 1: Report of LEDBAT — Data Link

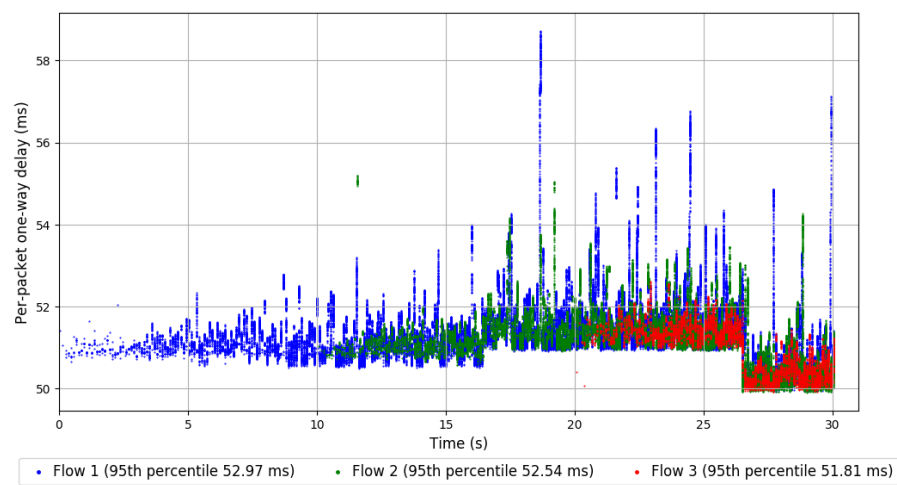
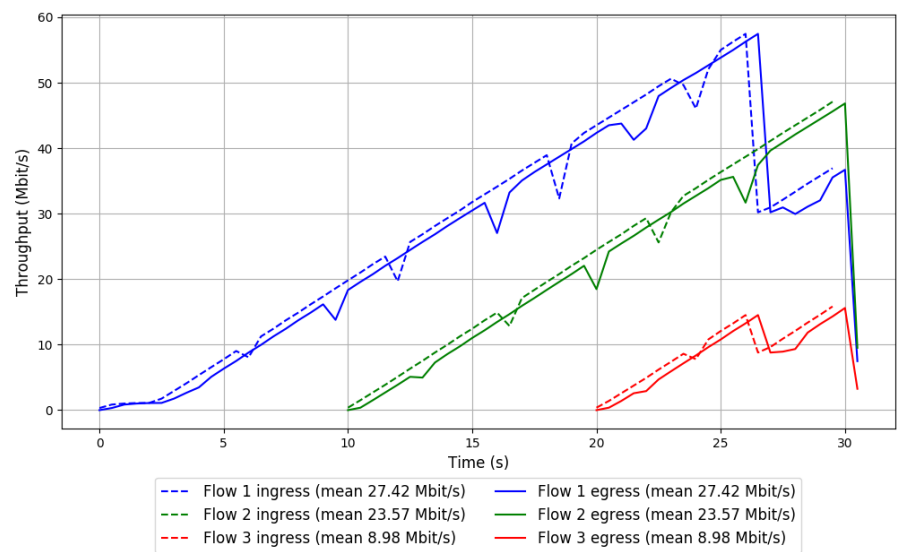


Run 2: Statistics of LEDBAT

Start at: 2018-07-01 17:08:44  
End at: 2018-07-01 17:09:14  
Local clock offset: -0.325 ms  
Remote clock offset: -0.001 ms

# Below is generated by plot.py at 2018-07-01 21:55:15  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 46.10 Mbit/s  
95th percentile per-packet one-way delay: 52.734 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 27.42 Mbit/s  
95th percentile per-packet one-way delay: 52.967 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 23.57 Mbit/s  
95th percentile per-packet one-way delay: 52.541 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 8.98 Mbit/s  
95th percentile per-packet one-way delay: 51.814 ms  
Loss rate: 0.00%

Run 2: Report of LEDBAT — Data Link

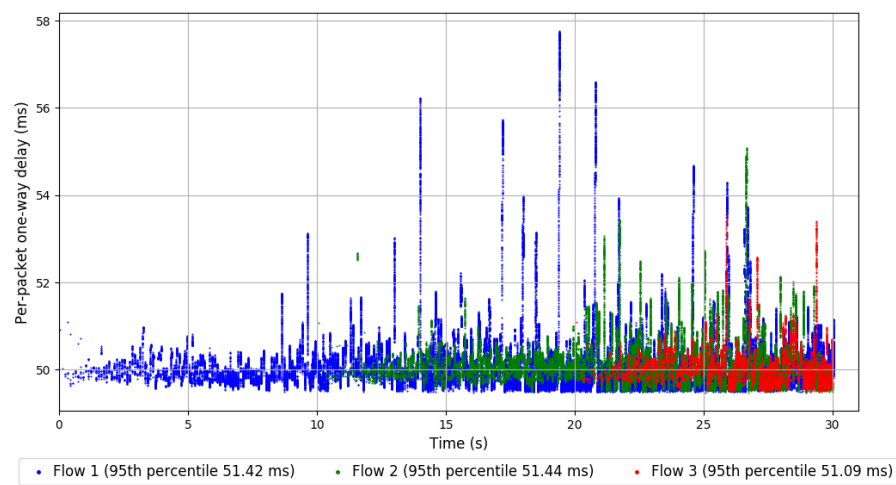
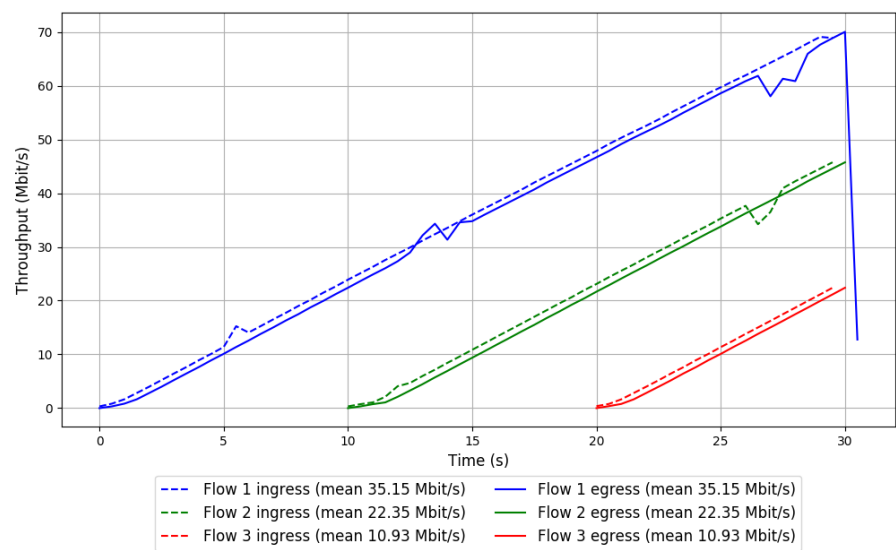


Run 3: Statistics of LEDBAT

Start at: 2018-07-01 17:32:52  
End at: 2018-07-01 17:33:22  
Local clock offset: 0.111 ms  
Remote clock offset: -0.041 ms

# Below is generated by plot.py at 2018-07-01 21:55:15  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 53.62 Mbit/s  
95th percentile per-packet one-way delay: 51.416 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 35.15 Mbit/s  
95th percentile per-packet one-way delay: 51.425 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 22.35 Mbit/s  
95th percentile per-packet one-way delay: 51.437 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 10.93 Mbit/s  
95th percentile per-packet one-way delay: 51.087 ms  
Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link

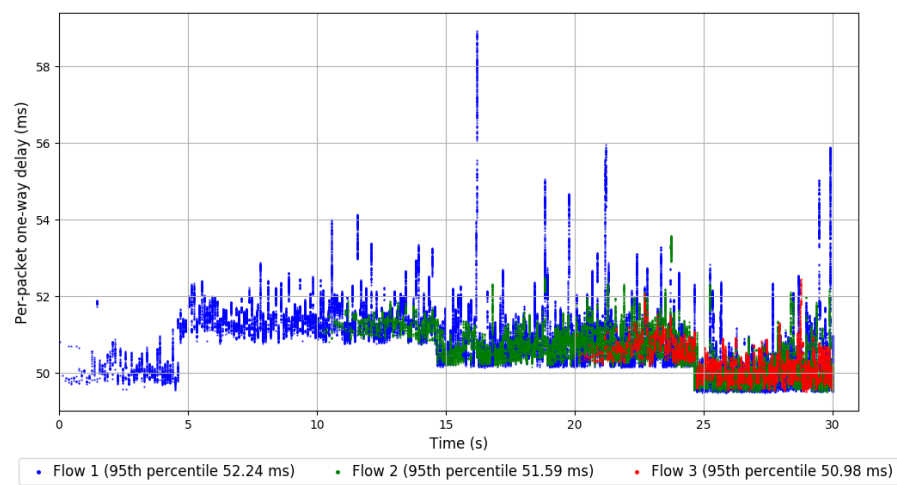
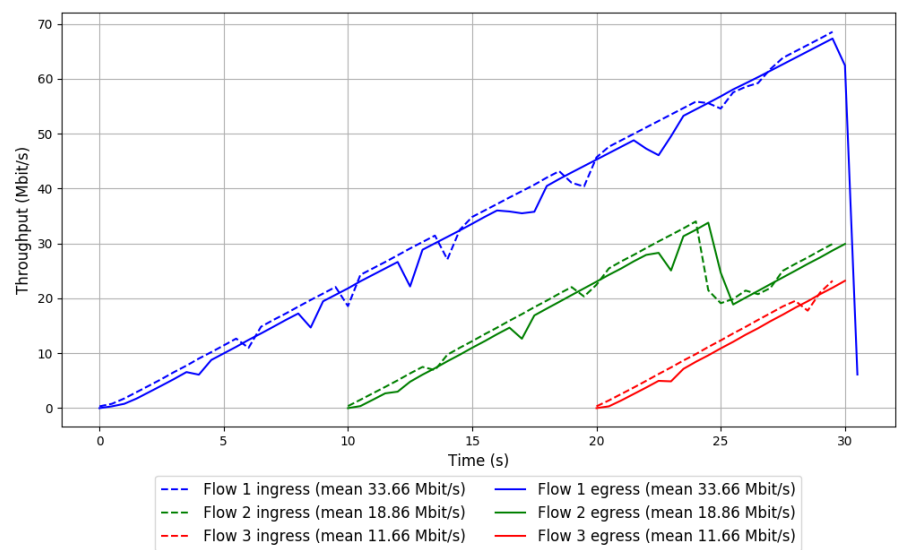


Run 4: Statistics of LEDBAT

Start at: 2018-07-01 17:56:56  
End at: 2018-07-01 17:57:26  
Local clock offset: 0.071 ms  
Remote clock offset: -0.131 ms

# Below is generated by plot.py at 2018-07-01 21:55:15  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 50.05 Mbit/s  
95th percentile per-packet one-way delay: 52.023 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 33.66 Mbit/s  
95th percentile per-packet one-way delay: 52.238 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 18.86 Mbit/s  
95th percentile per-packet one-way delay: 51.586 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 11.66 Mbit/s  
95th percentile per-packet one-way delay: 50.977 ms  
Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link



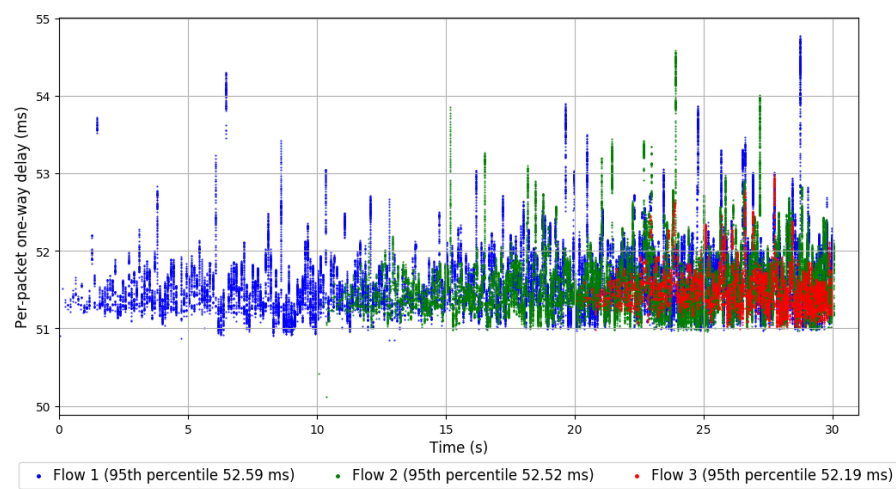
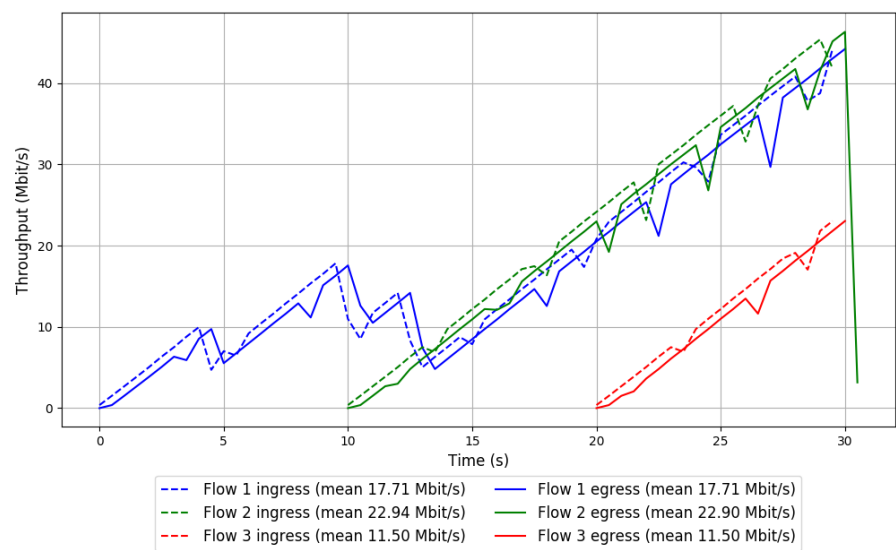
Run 5: Statistics of LEDBAT

Start at: 2018-07-01 18:20:56  
End at: 2018-07-01 18:21:26  
Local clock offset: -0.321 ms  
Remote clock offset: -0.126 ms

# Below is generated by plot.py at 2018-07-01 21:55:15  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 36.73 Mbit/s  
95th percentile per-packet one-way delay: 52.506 ms  
Loss rate: 0.07%  
-- Flow 1:  
Average throughput: 17.71 Mbit/s  
95th percentile per-packet one-way delay: 52.586 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 22.90 Mbit/s  
95th percentile per-packet one-way delay: 52.517 ms  
Loss rate: 0.17%  
-- Flow 3:  
Average throughput: 11.50 Mbit/s  
95th percentile per-packet one-way delay: 52.190 ms  
Loss rate: 0.00%



Run 5: Report of LEDBAT — Data Link

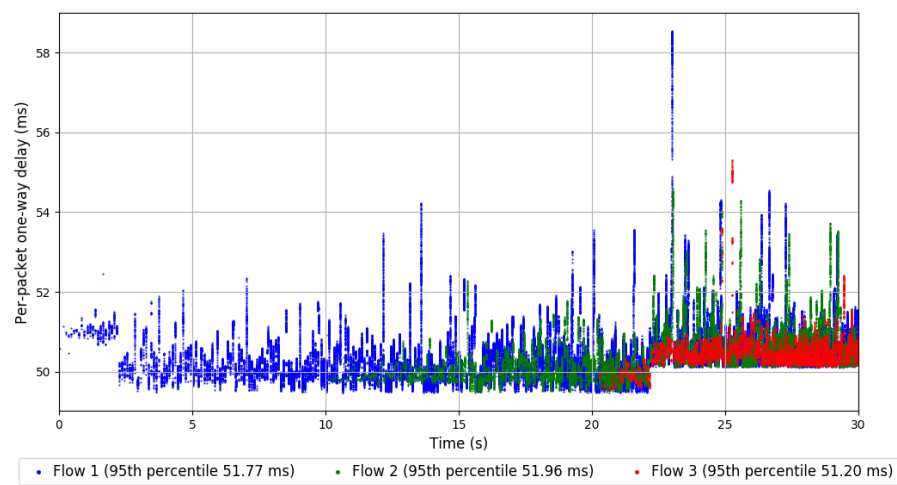
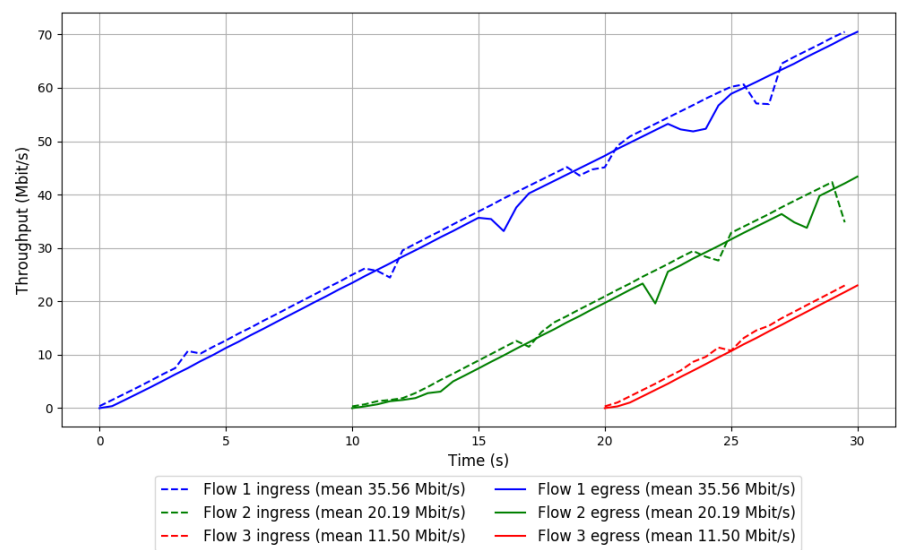


Run 6: Statistics of LEDBAT

Start at: 2018-07-01 18:44:58  
End at: 2018-07-01 18:45:28  
Local clock offset: 0.014 ms  
Remote clock offset: -0.048 ms

# Below is generated by plot.py at 2018-07-01 21:55:15  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 52.77 Mbit/s  
95th percentile per-packet one-way delay: 51.807 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 35.56 Mbit/s  
95th percentile per-packet one-way delay: 51.769 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 20.19 Mbit/s  
95th percentile per-packet one-way delay: 51.964 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 11.50 Mbit/s  
95th percentile per-packet one-way delay: 51.197 ms  
Loss rate: 0.00%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-07-01 19:08:59

End at: 2018-07-01 19:09:29

Local clock offset: 0.151 ms

Remote clock offset: -0.08 ms

# Below is generated by plot.py at 2018-07-01 21:55:15

# Datalink statistics

-- Total of 3 flows:

Average throughput: 53.94 Mbit/s

95th percentile per-packet one-way delay: 51.595 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 34.71 Mbit/s

95th percentile per-packet one-way delay: 51.766 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 23.27 Mbit/s

95th percentile per-packet one-way delay: 51.390 ms

Loss rate: 0.00%

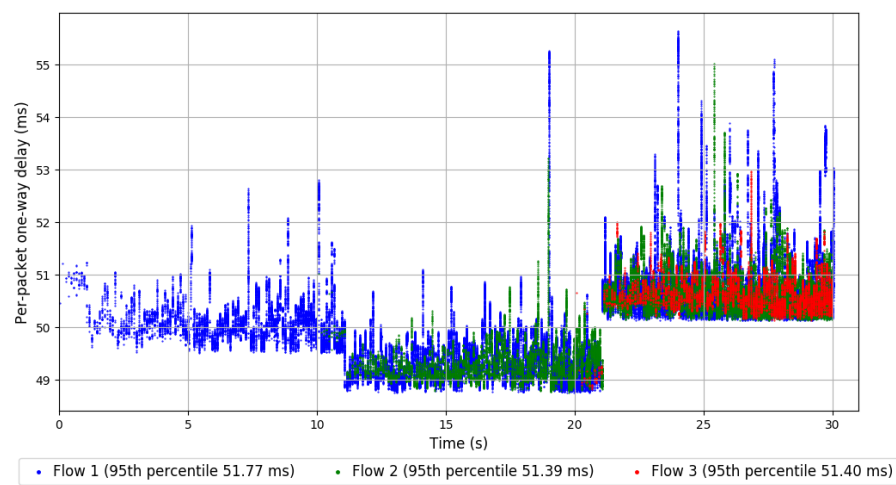
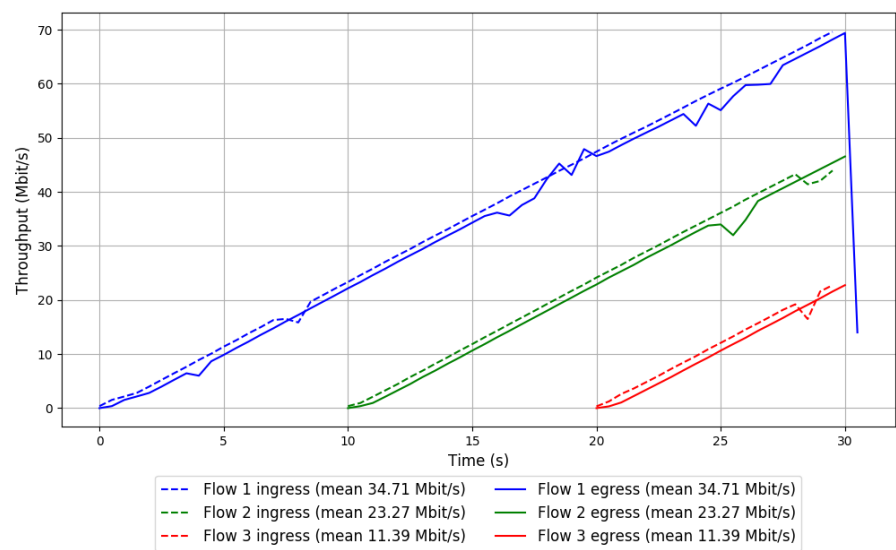
-- Flow 3:

Average throughput: 11.39 Mbit/s

95th percentile per-packet one-way delay: 51.400 ms

Loss rate: 0.00%

Run 7: Report of LEDBAT — Data Link

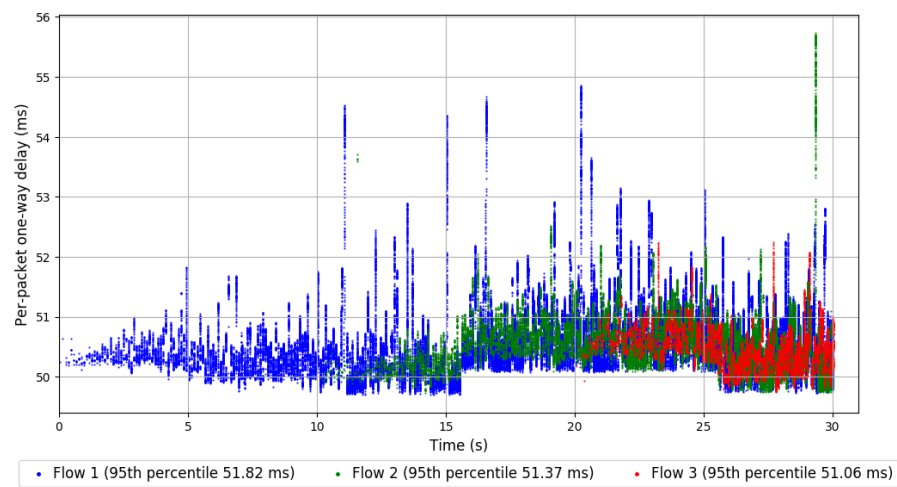
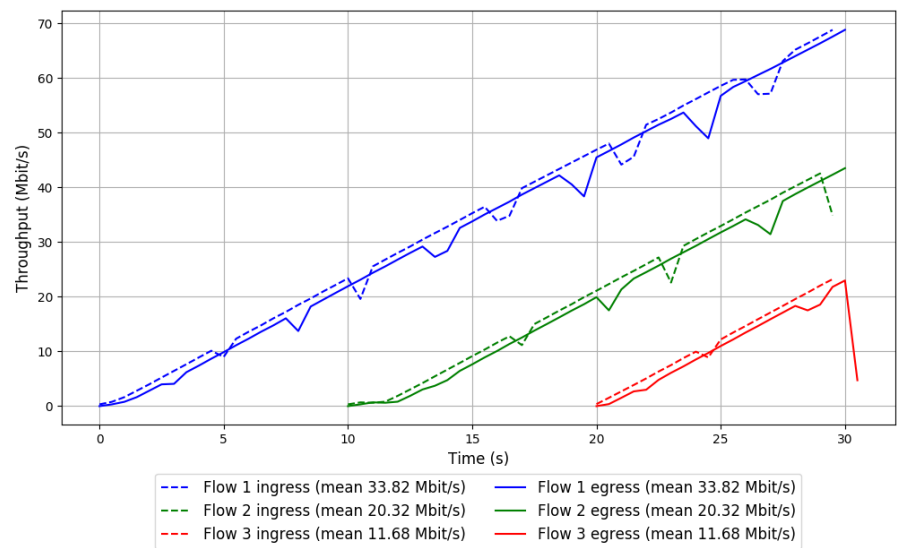


Run 8: Statistics of LEDBAT

Start at: 2018-07-01 19:33:05  
End at: 2018-07-01 19:33:35  
Local clock offset: 0.533 ms  
Remote clock offset: -0.069 ms

# Below is generated by plot.py at 2018-07-01 21:55:15  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 51.16 Mbit/s  
95th percentile per-packet one-way delay: 51.673 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 33.82 Mbit/s  
95th percentile per-packet one-way delay: 51.821 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 20.32 Mbit/s  
95th percentile per-packet one-way delay: 51.374 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 11.68 Mbit/s  
95th percentile per-packet one-way delay: 51.064 ms  
Loss rate: 0.00%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-07-01 19:57:24

End at: 2018-07-01 19:57:54

Local clock offset: 0.113 ms

Remote clock offset: -0.02 ms

# Below is generated by plot.py at 2018-07-01 21:55:15

# Datalink statistics

-- Total of 3 flows:

Average throughput: 50.55 Mbit/s

95th percentile per-packet one-way delay: 51.961 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 34.22 Mbit/s

95th percentile per-packet one-way delay: 52.009 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 20.35 Mbit/s

95th percentile per-packet one-way delay: 51.977 ms

Loss rate: 0.00%

-- Flow 3:

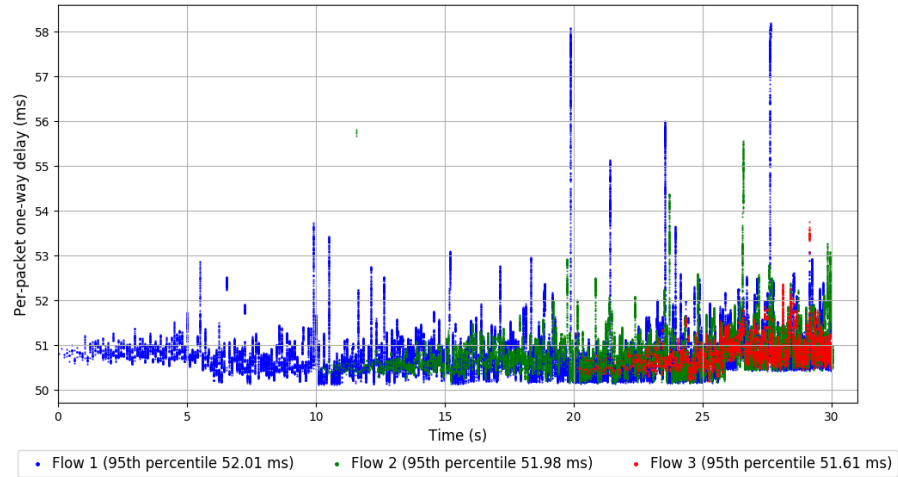
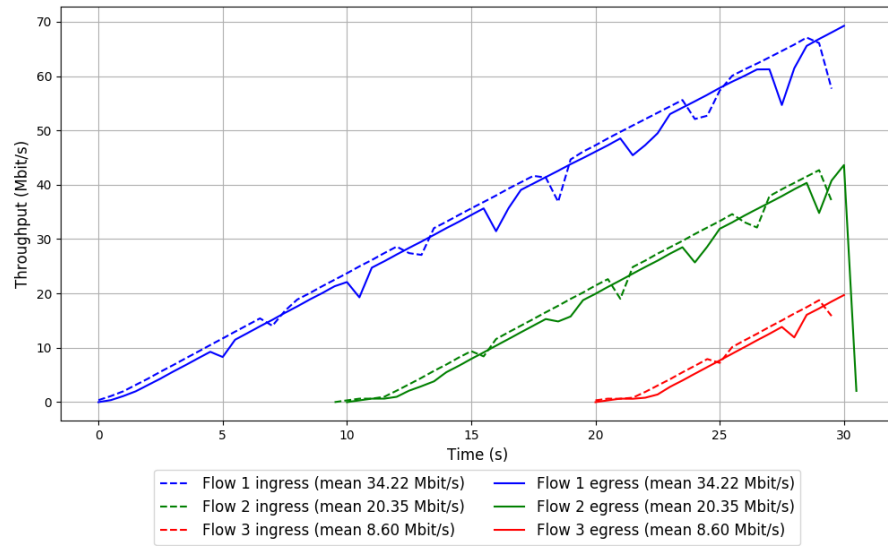
Average throughput: 8.60 Mbit/s

95th percentile per-packet one-way delay: 51.612 ms

Loss rate: 0.00%



## Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-07-01 20:21:44

End at: 2018-07-01 20:22:14

Local clock offset: 0.203 ms

Remote clock offset: 0.011 ms

# Below is generated by plot.py at 2018-07-01 21:55:15

# Datalink statistics

-- Total of 3 flows:

Average throughput: 53.67 Mbit/s

95th percentile per-packet one-way delay: 51.626 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 34.88 Mbit/s

95th percentile per-packet one-way delay: 51.681 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 22.44 Mbit/s

95th percentile per-packet one-way delay: 51.589 ms

Loss rate: 0.00%

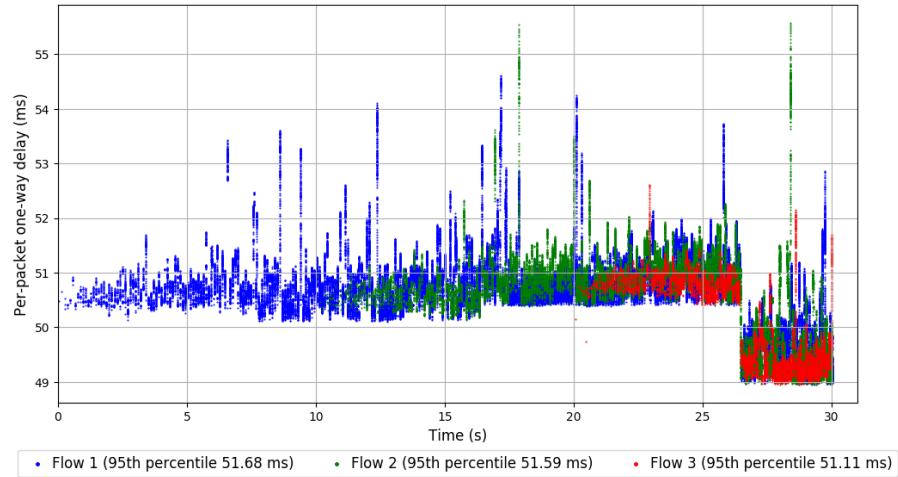
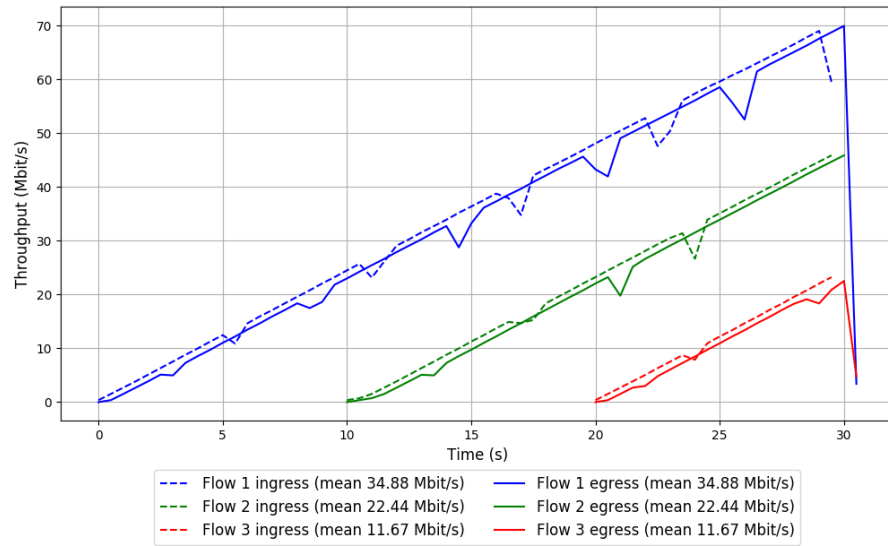
-- Flow 3:

Average throughput: 11.67 Mbit/s

95th percentile per-packet one-way delay: 51.109 ms

Loss rate: 0.00%

# Run 10: Report of LEDBAT — Data Link

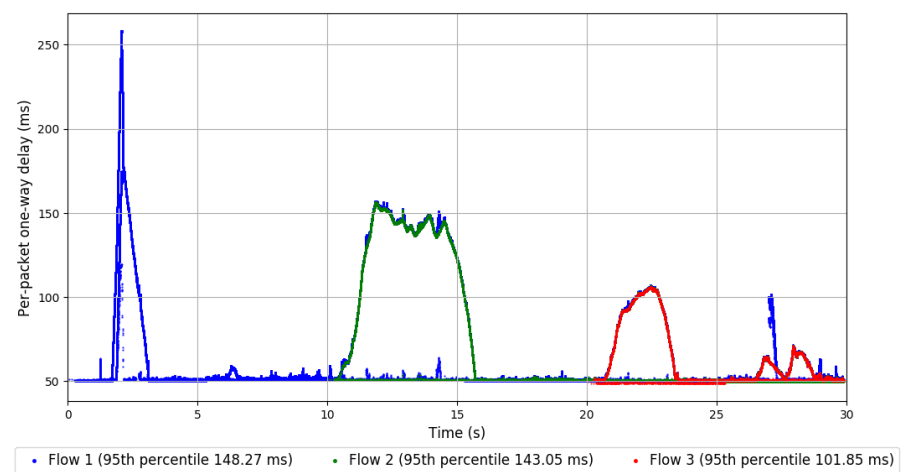
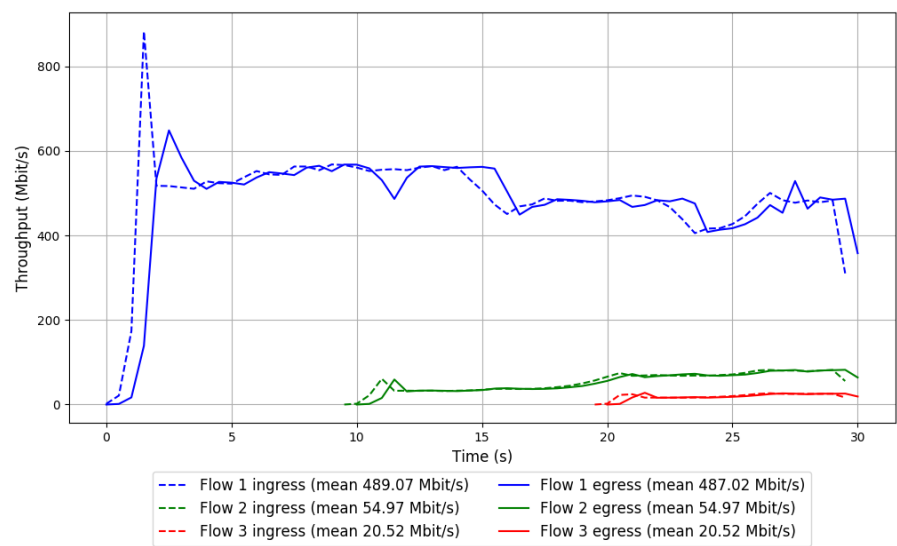


```
Run 1: Statistics of PCC-Allegro

Start at: 2018-07-01 16:28:35
End at: 2018-07-01 16:29:05
Local clock offset: 0.057 ms
Remote clock offset: -0.025 ms

# Below is generated by plot.py at 2018-07-01 21:55:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 530.35 Mbit/s
95th percentile per-packet one-way delay: 147.800 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 487.02 Mbit/s
95th percentile per-packet one-way delay: 148.267 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 54.97 Mbit/s
95th percentile per-packet one-way delay: 143.051 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 20.52 Mbit/s
95th percentile per-packet one-way delay: 101.851 ms
Loss rate: 0.00%
```

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-07-01 16:52:47

End at: 2018-07-01 16:53:17

Local clock offset: 0.058 ms

Remote clock offset: 0.01 ms

# Below is generated by plot.py at 2018-07-01 21:55:15

# Datalink statistics

-- Total of 3 flows:

Average throughput: 529.41 Mbit/s

95th percentile per-packet one-way delay: 184.736 ms

Loss rate: 2.16%

-- Flow 1:

Average throughput: 466.10 Mbit/s

95th percentile per-packet one-way delay: 184.817 ms

Loss rate: 2.26%

-- Flow 2:

Average throughput: 65.77 Mbit/s

95th percentile per-packet one-way delay: 180.677 ms

Loss rate: 1.63%

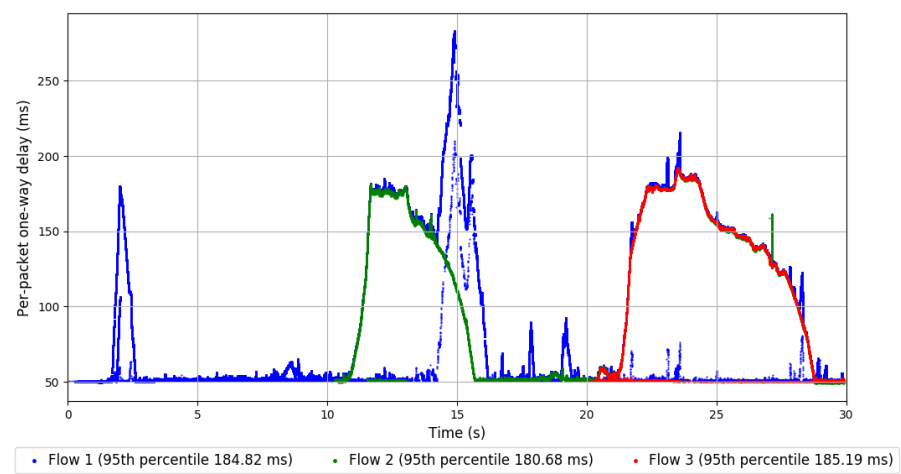
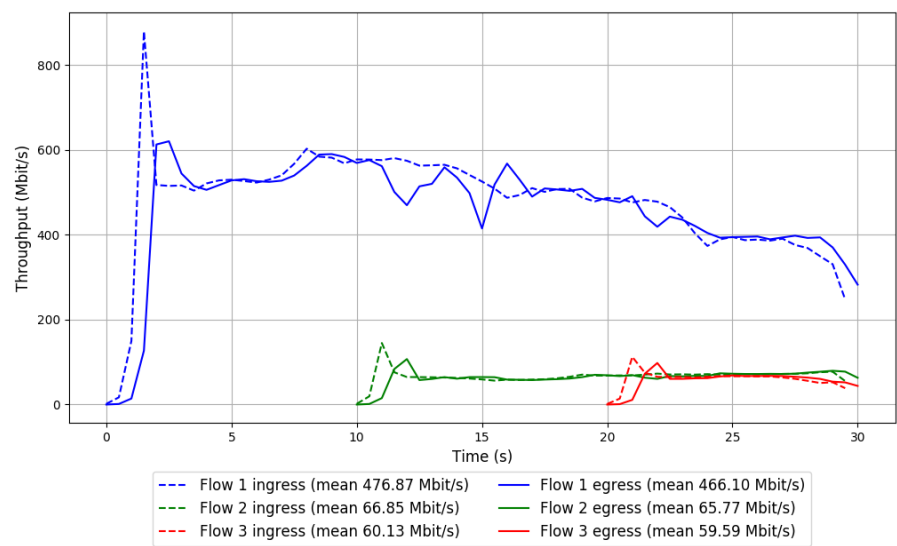
-- Flow 3:

Average throughput: 59.59 Mbit/s

95th percentile per-packet one-way delay: 185.190 ms

Loss rate: 0.91%

Run 2: Report of PCC-Allegro — Data Link



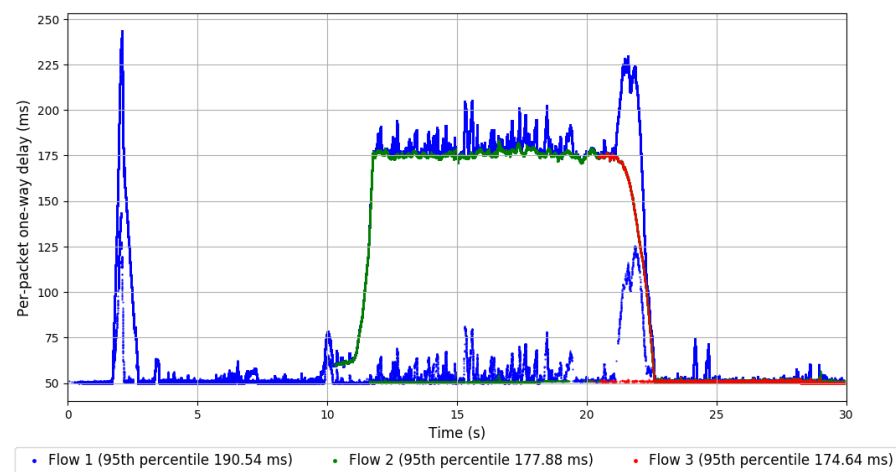
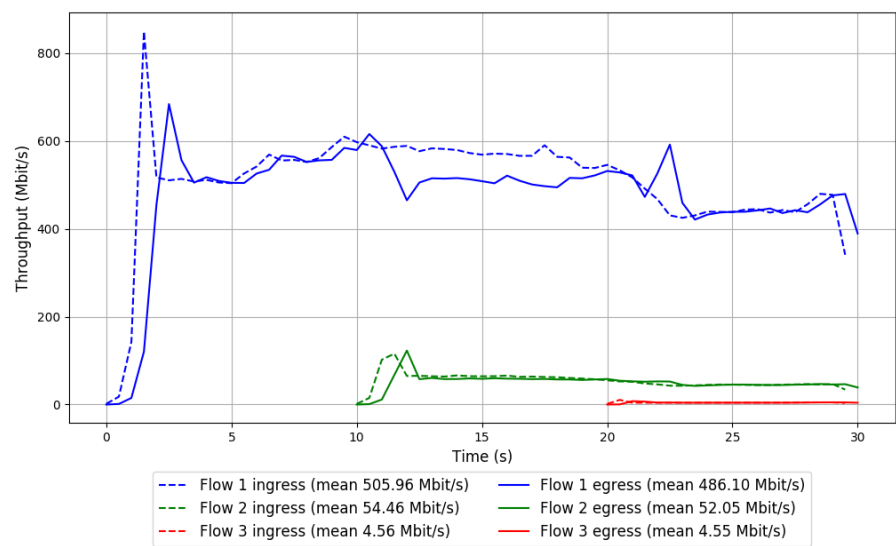
Run 3: Statistics of PCC-Allegro

Start at: 2018-07-01 17:17:02  
End at: 2018-07-01 17:17:32  
Local clock offset: -0.285 ms  
Remote clock offset: -0.002 ms

# Below is generated by plot.py at 2018-07-01 21:55:15  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 522.17 Mbit/s  
95th percentile per-packet one-way delay: 189.660 ms  
Loss rate: 3.95%  
-- Flow 1:  
Average throughput: 486.10 Mbit/s  
95th percentile per-packet one-way delay: 190.538 ms  
Loss rate: 3.93%  
-- Flow 2:  
Average throughput: 52.05 Mbit/s  
95th percentile per-packet one-way delay: 177.881 ms  
Loss rate: 4.48%  
-- Flow 3:  
Average throughput: 4.55 Mbit/s  
95th percentile per-packet one-way delay: 174.639 ms  
Loss rate: 0.16%



Run 3: Report of PCC-Allegro — Data Link

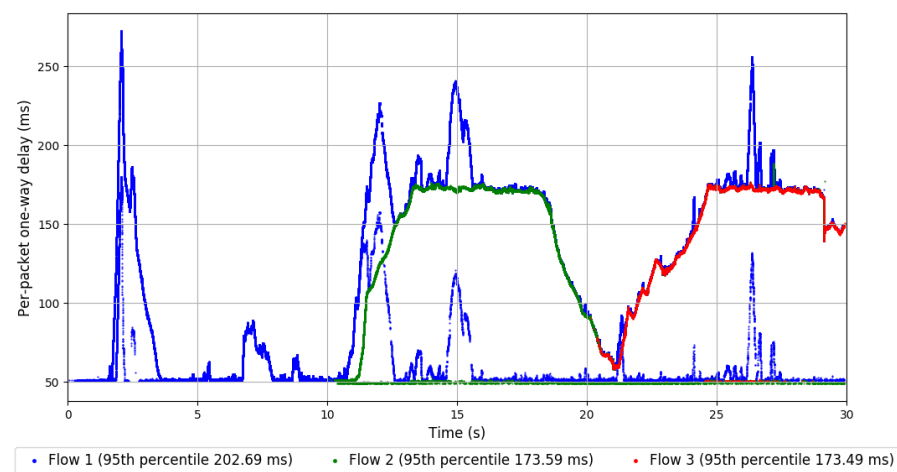
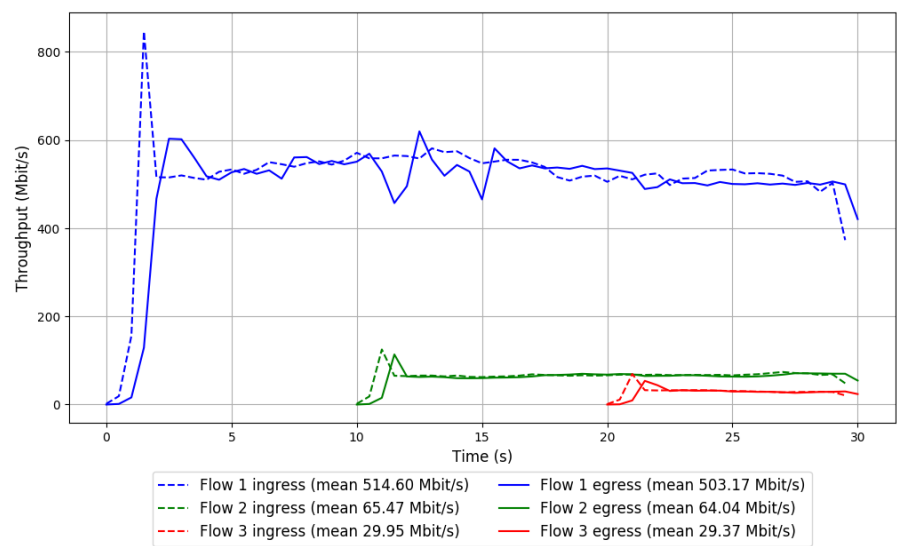


Run 4: Statistics of PCC-Allegro

Start at: 2018-07-01 17:41:00  
End at: 2018-07-01 17:41:30  
Local clock offset: -0.26 ms  
Remote clock offset: -0.024 ms

# Below is generated by plot.py at 2018-07-01 21:55:15  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 555.34 Mbit/s  
95th percentile per-packet one-way delay: 199.141 ms  
Loss rate: 2.22%  
-- Flow 1:  
Average throughput: 503.17 Mbit/s  
95th percentile per-packet one-way delay: 202.686 ms  
Loss rate: 2.22%  
-- Flow 2:  
Average throughput: 64.04 Mbit/s  
95th percentile per-packet one-way delay: 173.586 ms  
Loss rate: 2.19%  
-- Flow 3:  
Average throughput: 29.37 Mbit/s  
95th percentile per-packet one-way delay: 173.492 ms  
Loss rate: 2.33%

Run 4: Report of PCC-Allegro — Data Link

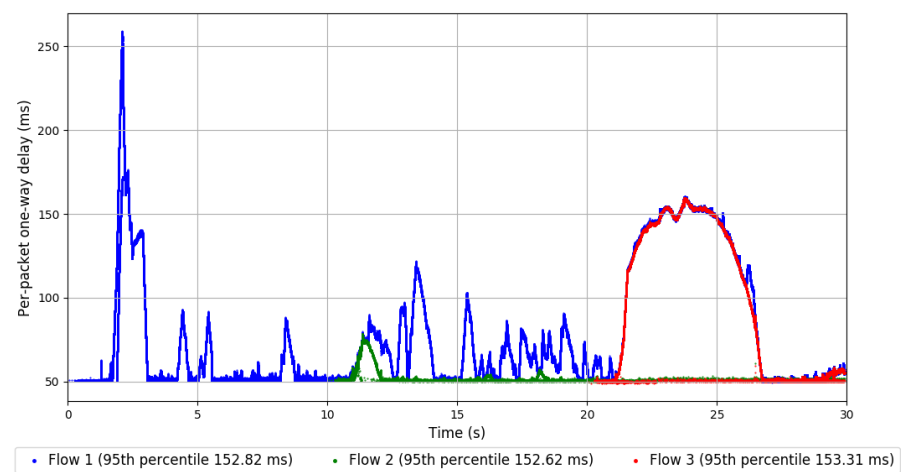
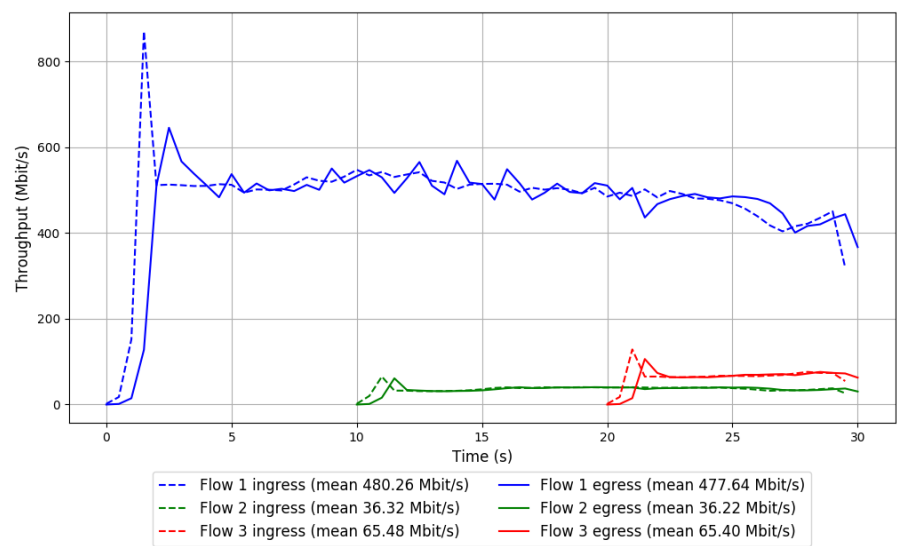


Run 5: Statistics of PCC-Allegro

Start at: 2018-07-01 18:05:07  
End at: 2018-07-01 18:05:37  
Local clock offset: 0.103 ms  
Remote clock offset: -0.132 ms

# Below is generated by plot.py at 2018-07-01 21:55:21  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 523.29 Mbit/s  
95th percentile per-packet one-way delay: 152.865 ms  
Loss rate: 0.51%  
-- Flow 1:  
Average throughput: 477.64 Mbit/s  
95th percentile per-packet one-way delay: 152.824 ms  
Loss rate: 0.54%  
-- Flow 2:  
Average throughput: 36.22 Mbit/s  
95th percentile per-packet one-way delay: 152.624 ms  
Loss rate: 0.28%  
-- Flow 3:  
Average throughput: 65.40 Mbit/s  
95th percentile per-packet one-way delay: 153.311 ms  
Loss rate: 0.08%

Run 5: Report of PCC-Allegro — Data Link

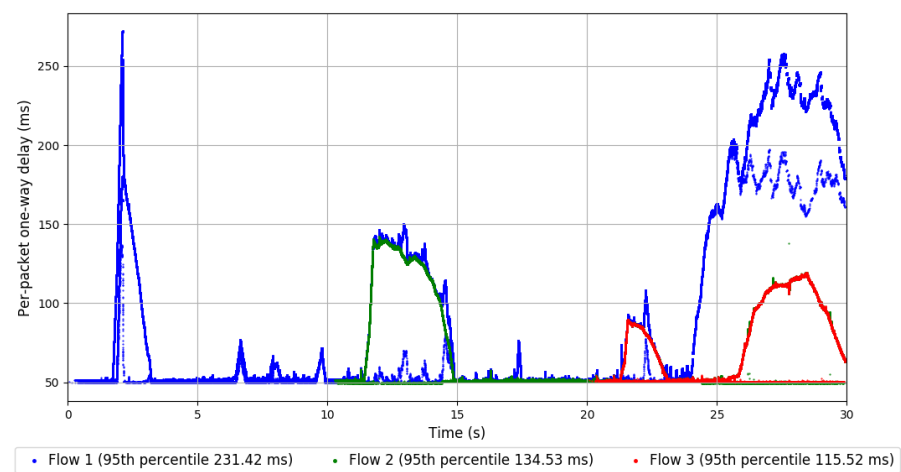
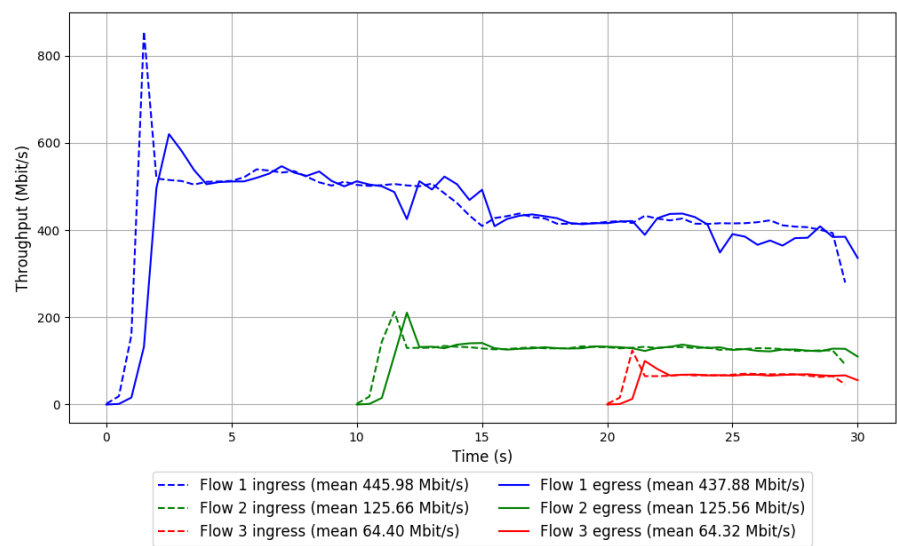


Run 6: Statistics of PCC-Allegro

Start at: 2018-07-01 18:29:06  
End at: 2018-07-01 18:29:36  
Local clock offset: -0.295 ms  
Remote clock offset: -0.035 ms

# Below is generated by plot.py at 2018-07-01 21:55:53  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 542.52 Mbit/s  
95th percentile per-packet one-way delay: 227.517 ms  
Loss rate: 1.47%  
-- Flow 1:  
Average throughput: 437.88 Mbit/s  
95th percentile per-packet one-way delay: 231.420 ms  
Loss rate: 1.80%  
-- Flow 2:  
Average throughput: 125.56 Mbit/s  
95th percentile per-packet one-way delay: 134.531 ms  
Loss rate: 0.06%  
-- Flow 3:  
Average throughput: 64.32 Mbit/s  
95th percentile per-packet one-way delay: 115.524 ms  
Loss rate: 0.12%

Run 6: Report of PCC-Allegro — Data Link



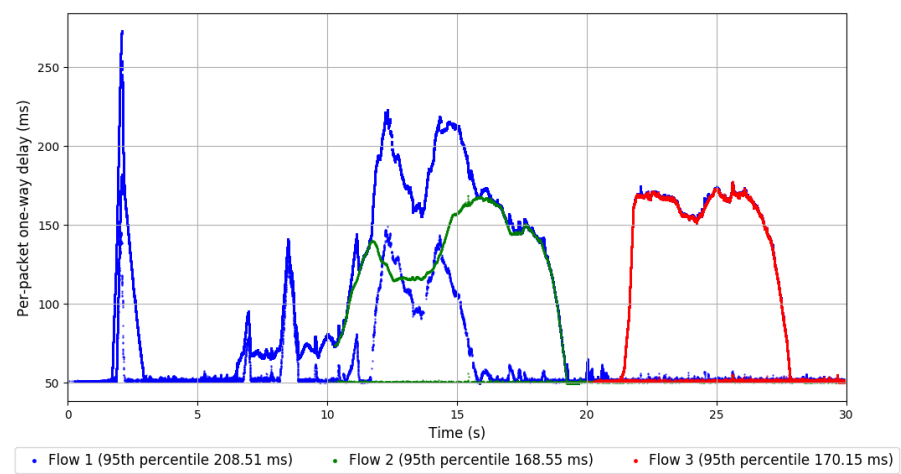
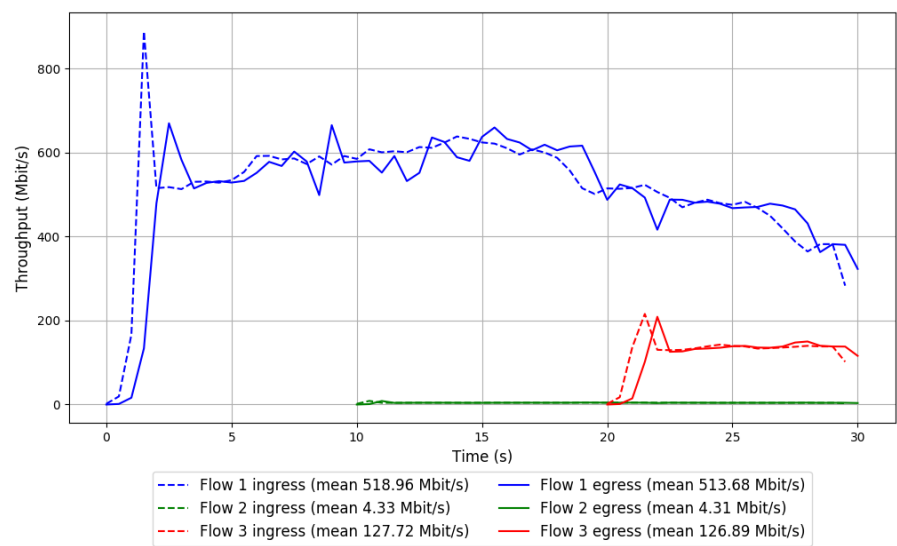
Run 7: Statistics of PCC-Allegro

Start at: 2018-07-01 18:53:10  
End at: 2018-07-01 18:53:40  
Local clock offset: -0.009 ms  
Remote clock offset: -0.015 ms

# Below is generated by plot.py at 2018-07-01 22:01:57  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 558.36 Mbit/s  
95th percentile per-packet one-way delay: 206.752 ms  
Loss rate: 0.99%  
-- Flow 1:  
Average throughput: 513.68 Mbit/s  
95th percentile per-packet one-way delay: 208.510 ms  
Loss rate: 1.02%  
-- Flow 2:  
Average throughput: 4.31 Mbit/s  
95th percentile per-packet one-way delay: 168.550 ms  
Loss rate: 0.32%  
-- Flow 3:  
Average throughput: 126.89 Mbit/s  
95th percentile per-packet one-way delay: 170.147 ms  
Loss rate: 0.65%



Run 7: Report of PCC-Allegro — Data Link

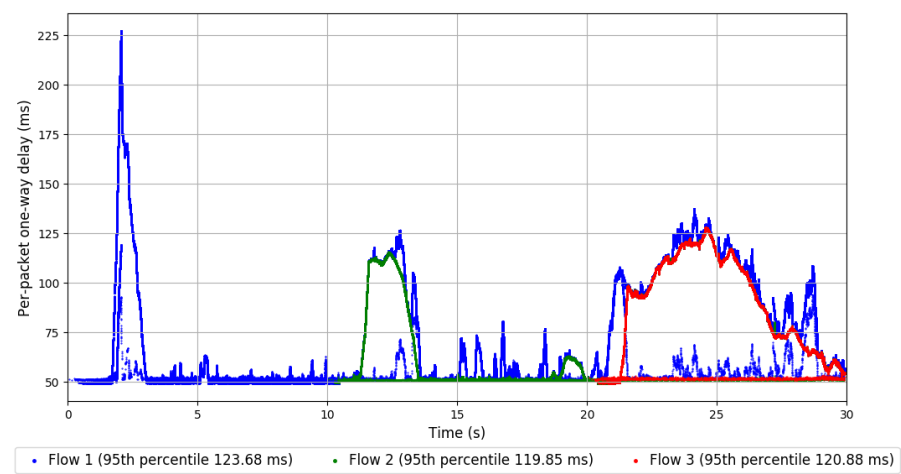
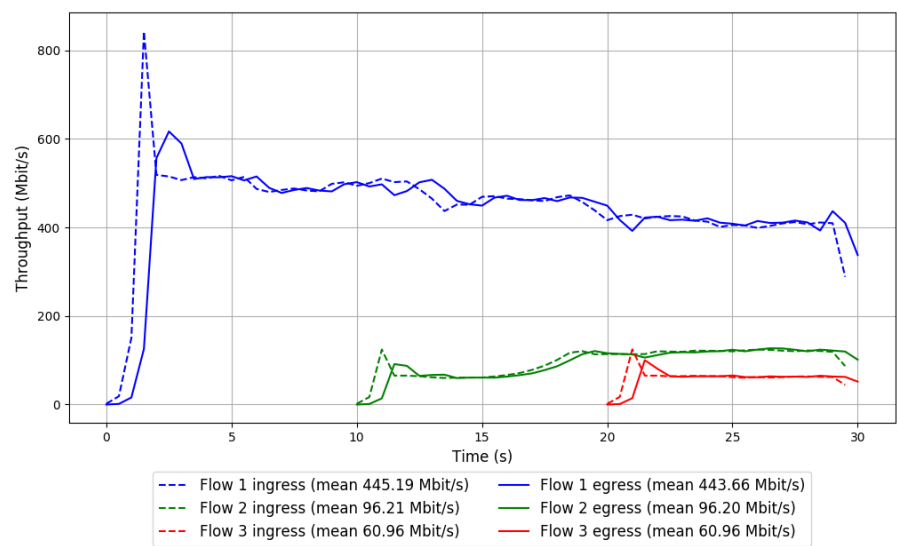


Run 8: Statistics of PCC-Allegro

Start at: 2018-07-01 19:17:10  
End at: 2018-07-01 19:17:40  
Local clock offset: -0.2 ms  
Remote clock offset: -0.071 ms

```
# Below is generated by plot.py at 2018-07-01 22:01:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 527.66 Mbit/s
95th percentile per-packet one-way delay: 122.831 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 443.66 Mbit/s
95th percentile per-packet one-way delay: 123.678 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 96.20 Mbit/s
95th percentile per-packet one-way delay: 119.847 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 60.96 Mbit/s
95th percentile per-packet one-way delay: 120.877 ms
Loss rate: 0.00%
```

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-07-01 19:41:19

End at: 2018-07-01 19:41:49

Local clock offset: 0.148 ms

Remote clock offset: 0.028 ms

# Below is generated by plot.py at 2018-07-01 22:02:16

# Datalink statistics

-- Total of 3 flows:

Average throughput: 561.60 Mbit/s

95th percentile per-packet one-way delay: 184.004 ms

Loss rate: 1.40%

-- Flow 1:

Average throughput: 547.57 Mbit/s

95th percentile per-packet one-way delay: 184.130 ms

Loss rate: 1.42%

-- Flow 2:

Average throughput: 16.43 Mbit/s

95th percentile per-packet one-way delay: 175.530 ms

Loss rate: 1.03%

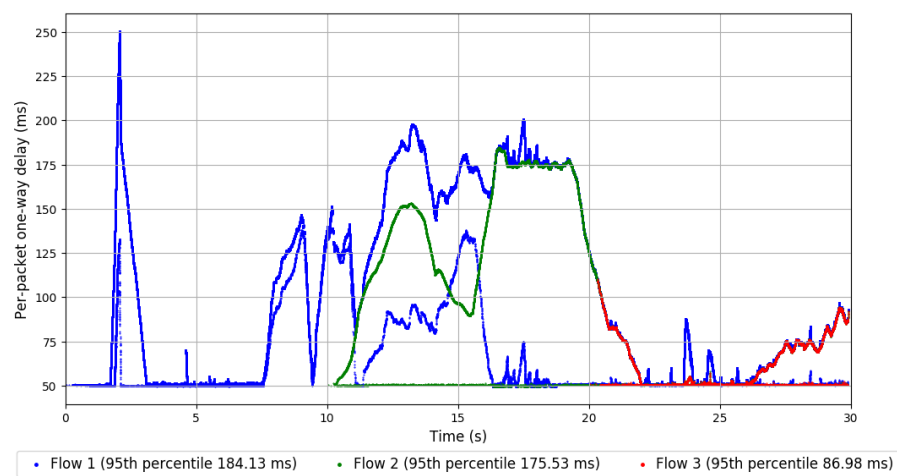
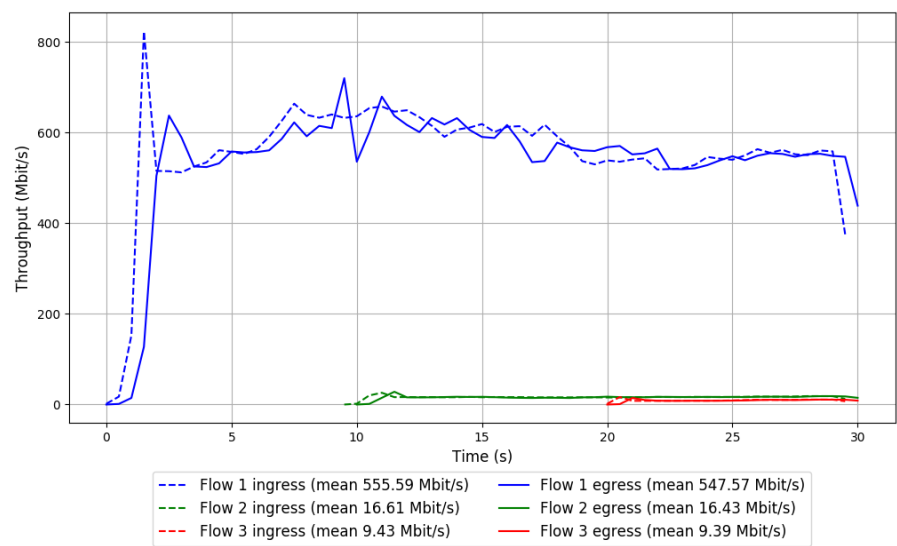
-- Flow 3:

Average throughput: 9.39 Mbit/s

95th percentile per-packet one-way delay: 86.979 ms

Loss rate: 0.34%

Run 9: Report of PCC-Allegro — Data Link



Run 10: Statistics of PCC-Allegro

Start at: 2018-07-01 20:05:38

End at: 2018-07-01 20:06:08

Local clock offset: 0.175 ms

Remote clock offset: 0.004 ms

# Below is generated by plot.py at 2018-07-01 22:02:24

# Datalink statistics

-- Total of 3 flows:

Average throughput: 547.58 Mbit/s

95th percentile per-packet one-way delay: 188.334 ms

Loss rate: 1.73%

-- Flow 1:

Average throughput: 535.70 Mbit/s

95th percentile per-packet one-way delay: 188.736 ms

Loss rate: 1.73%

-- Flow 2:

Average throughput: 15.69 Mbit/s

95th percentile per-packet one-way delay: 177.960 ms

Loss rate: 1.83%

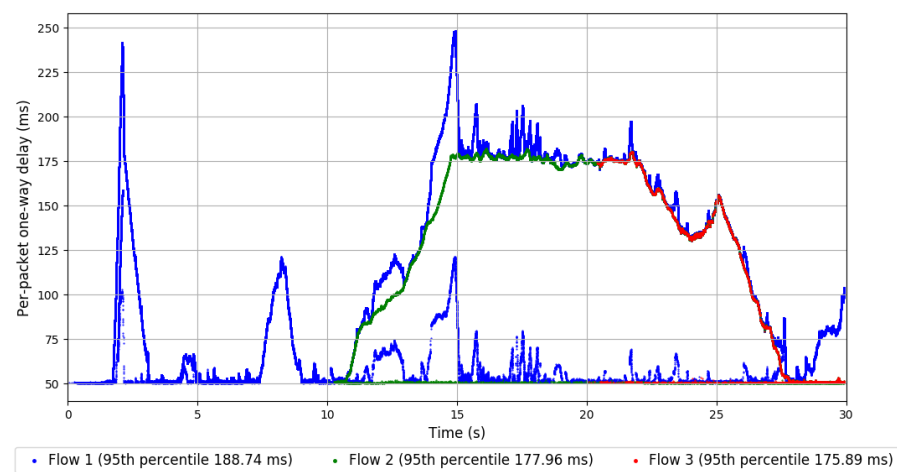
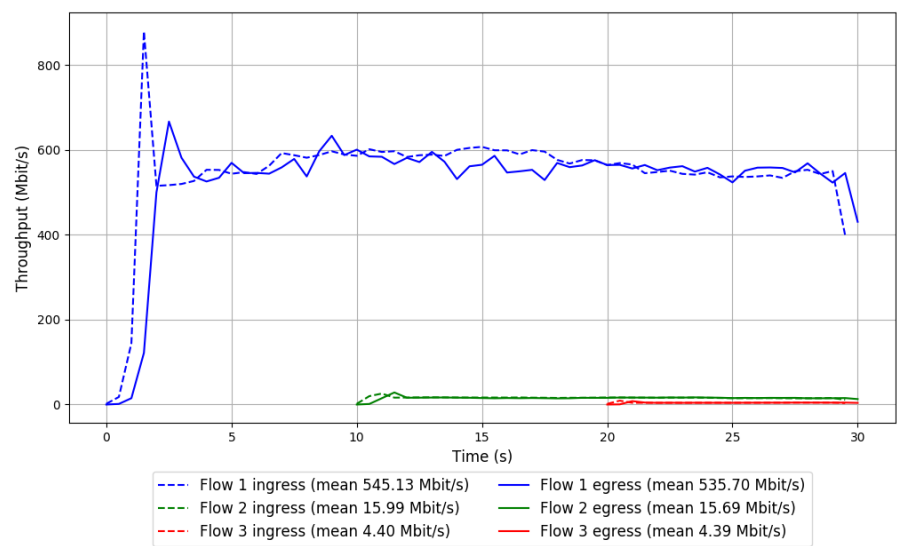
-- Flow 3:

Average throughput: 4.39 Mbit/s

95th percentile per-packet one-way delay: 175.887 ms

Loss rate: 0.30%

Run 10: Report of PCC-Allegro — Data Link



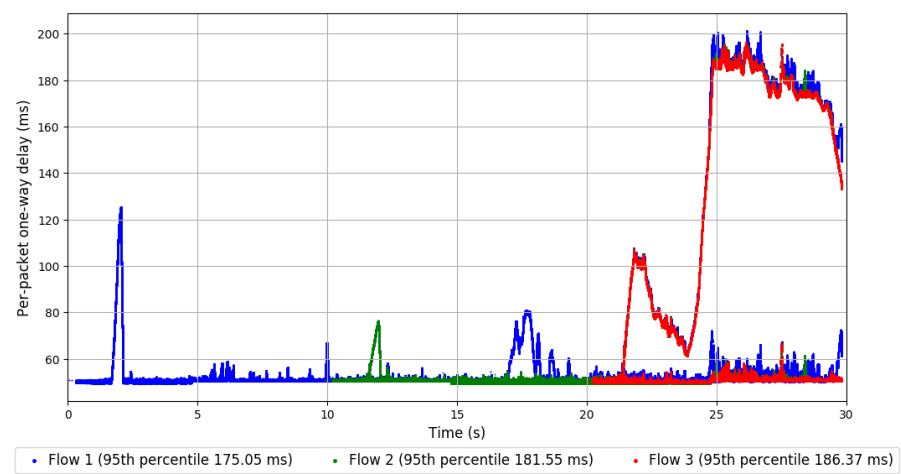
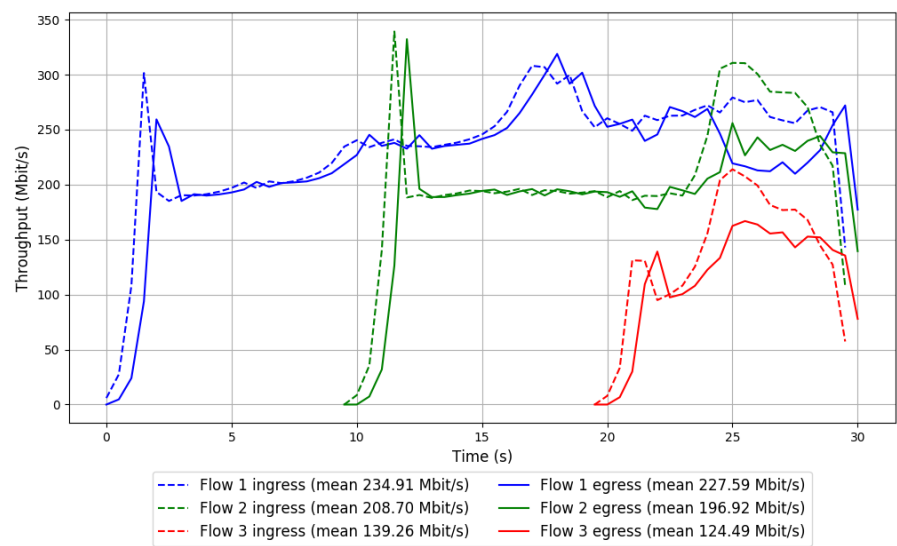
```
Run 1: Statistics of PCC-Expr

Start at: 2018-07-01 16:23:55
End at: 2018-07-01 16:24:25
Local clock offset: 0.016 ms
Remote clock offset: 0.014 ms

# Below is generated by plot.py at 2018-07-01 22:07:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 400.27 Mbit/s
95th percentile per-packet one-way delay: 179.995 ms
Loss rate: 4.77%
-- Flow 1:
Average throughput: 227.59 Mbit/s
95th percentile per-packet one-way delay: 175.052 ms
Loss rate: 3.11%
-- Flow 2:
Average throughput: 196.92 Mbit/s
95th percentile per-packet one-way delay: 181.554 ms
Loss rate: 5.64%
-- Flow 3:
Average throughput: 124.49 Mbit/s
95th percentile per-packet one-way delay: 186.373 ms
Loss rate: 10.60%
```



Run 1: Report of PCC-Expr — Data Link

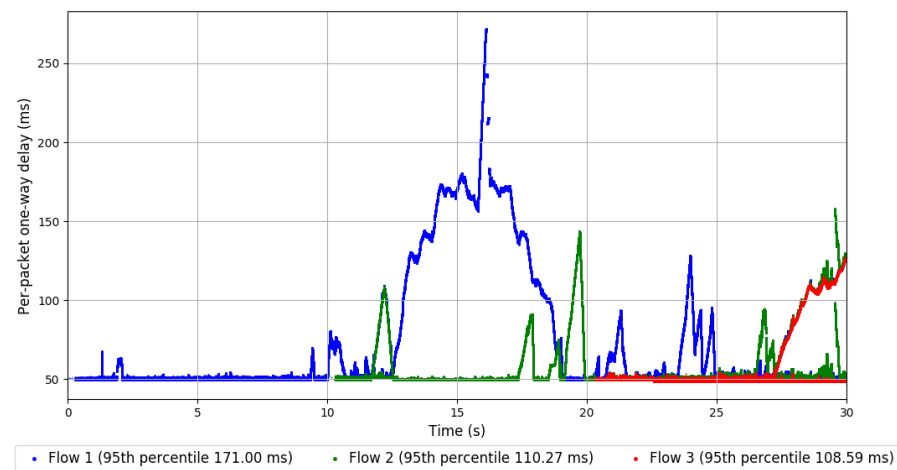
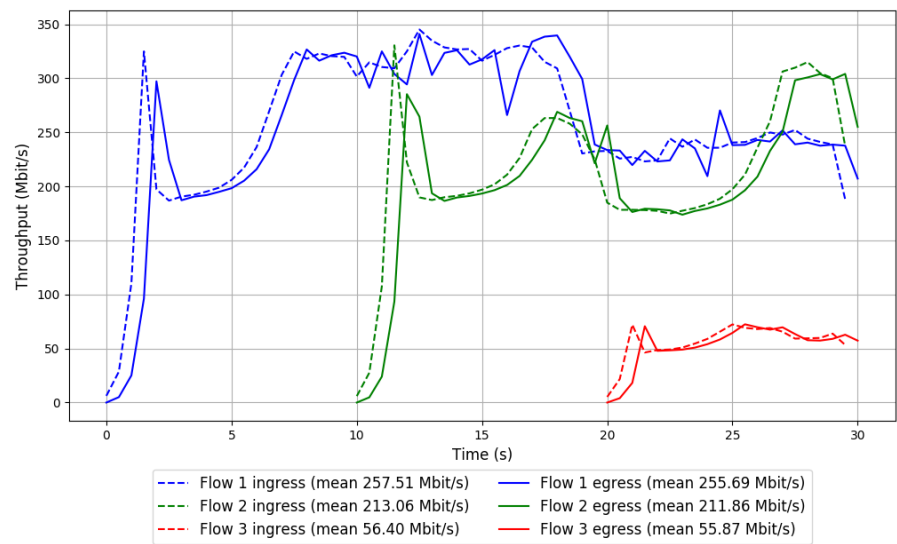


```
Run 2: Statistics of PCC-Expr

Start at: 2018-07-01 16:47:57
End at: 2018-07-01 16:48:27
Local clock offset: 0.097 ms
Remote clock offset: 0.025 ms

# Below is generated by plot.py at 2018-07-01 22:07:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 415.04 Mbit/s
95th percentile per-packet one-way delay: 168.415 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 255.69 Mbit/s
95th percentile per-packet one-way delay: 170.999 ms
Loss rate: 0.70%
-- Flow 2:
Average throughput: 211.86 Mbit/s
95th percentile per-packet one-way delay: 110.271 ms
Loss rate: 0.56%
-- Flow 3:
Average throughput: 55.87 Mbit/s
95th percentile per-packet one-way delay: 108.586 ms
Loss rate: 0.91%
```

Run 2: Report of PCC-Expr — Data Link

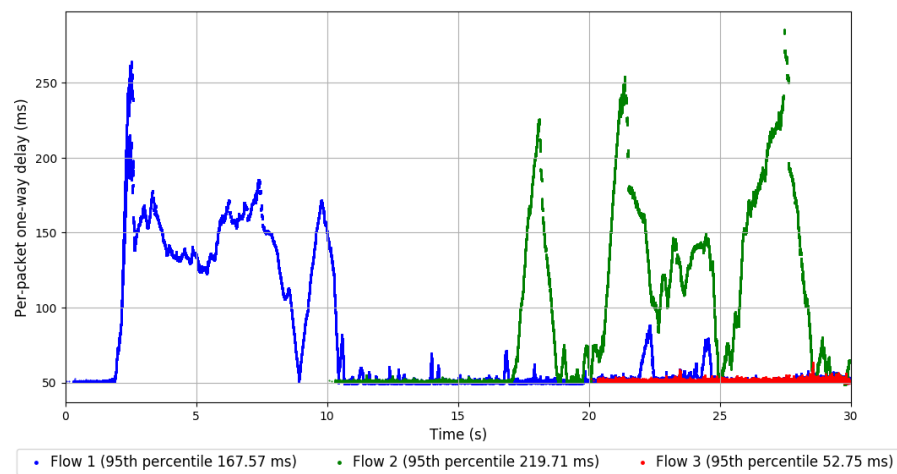
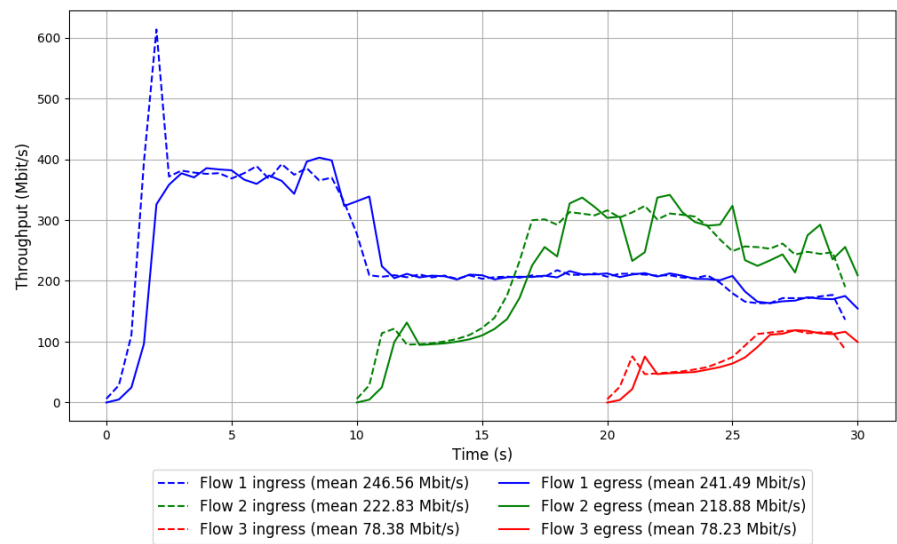


Run 3: Statistics of PCC-Expr

Start at: 2018-07-01 17:12:10  
End at: 2018-07-01 17:12:40  
Local clock offset: 0.119 ms  
Remote clock offset: -0.045 ms

# Below is generated by plot.py at 2018-07-01 22:07:34  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 412.85 Mbit/s  
95th percentile per-packet one-way delay: 184.994 ms  
Loss rate: 1.84%  
-- Flow 1:  
Average throughput: 241.49 Mbit/s  
95th percentile per-packet one-way delay: 167.572 ms  
Loss rate: 2.05%  
-- Flow 2:  
Average throughput: 218.88 Mbit/s  
95th percentile per-packet one-way delay: 219.706 ms  
Loss rate: 1.77%  
-- Flow 3:  
Average throughput: 78.23 Mbit/s  
95th percentile per-packet one-way delay: 52.753 ms  
Loss rate: 0.22%

Run 3: Report of PCC-Expr — Data Link

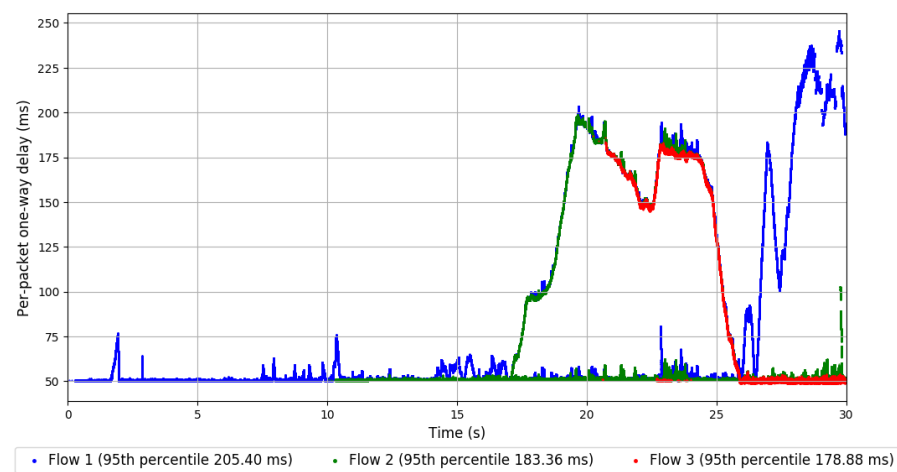
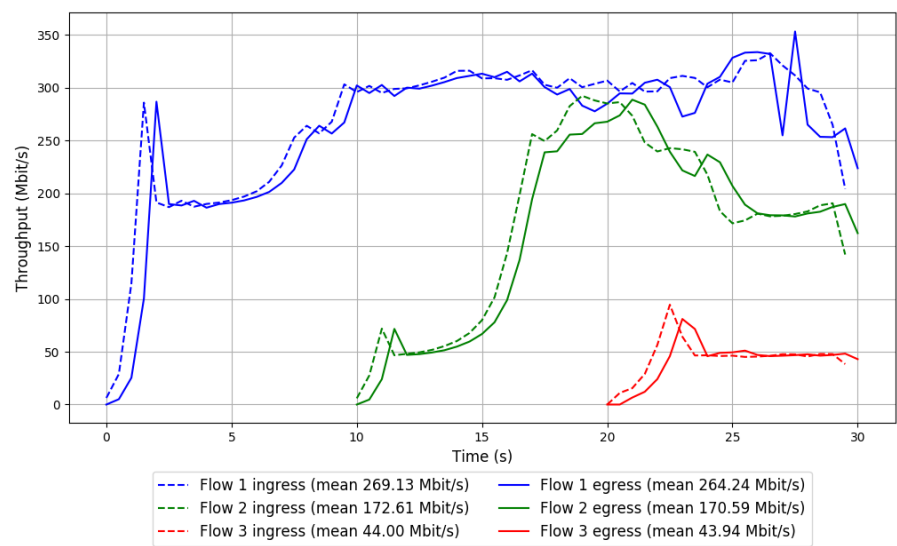


Run 4: Statistics of PCC-Expr

Start at: 2018-07-01 17:36:19  
End at: 2018-07-01 17:36:49  
Local clock offset: 0.074 ms  
Remote clock offset: -0.041 ms

# Below is generated by plot.py at 2018-07-01 22:07:40  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 391.97 Mbit/s  
95th percentile per-packet one-way delay: 193.709 ms  
Loss rate: 1.63%  
-- Flow 1:  
Average throughput: 264.24 Mbit/s  
95th percentile per-packet one-way delay: 205.395 ms  
Loss rate: 1.82%  
-- Flow 2:  
Average throughput: 170.59 Mbit/s  
95th percentile per-packet one-way delay: 183.357 ms  
Loss rate: 1.19%  
-- Flow 3:  
Average throughput: 43.94 Mbit/s  
95th percentile per-packet one-way delay: 178.875 ms  
Loss rate: 1.52%

Run 4: Report of PCC-Expr — Data Link



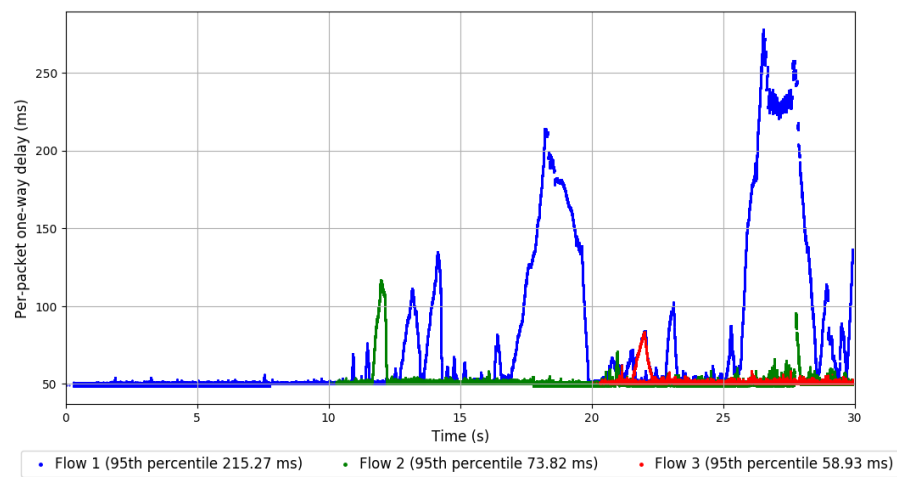
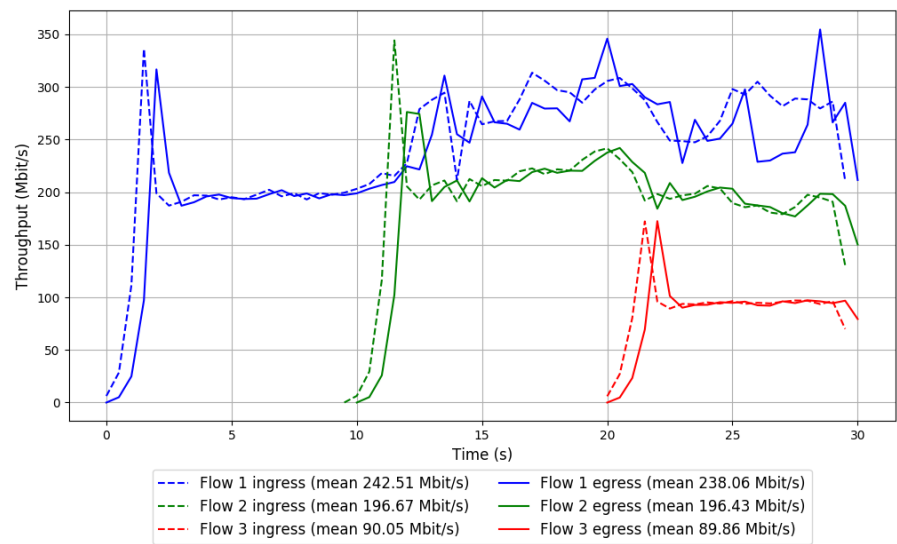
Run 5: Statistics of PCC-Expr

Start at: 2018-07-01 18:00:22  
End at: 2018-07-01 18:00:52  
Local clock offset: 0.097 ms  
Remote clock offset: -0.126 ms

# Below is generated by plot.py at 2018-07-01 22:15:02  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 398.43 Mbit/s  
95th percentile per-packet one-way delay: 180.800 ms  
Loss rate: 1.15%  
-- Flow 1:  
Average throughput: 238.06 Mbit/s  
95th percentile per-packet one-way delay: 215.266 ms  
Loss rate: 1.83%  
-- Flow 2:  
Average throughput: 196.43 Mbit/s  
95th percentile per-packet one-way delay: 73.819 ms  
Loss rate: 0.12%  
-- Flow 3:  
Average throughput: 89.86 Mbit/s  
95th percentile per-packet one-way delay: 58.929 ms  
Loss rate: 0.22%



Run 5: Report of PCC-Expr — Data Link

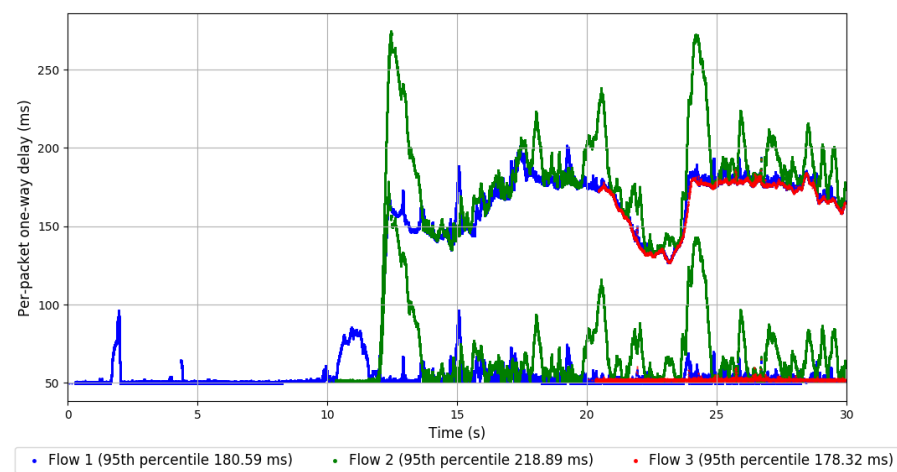
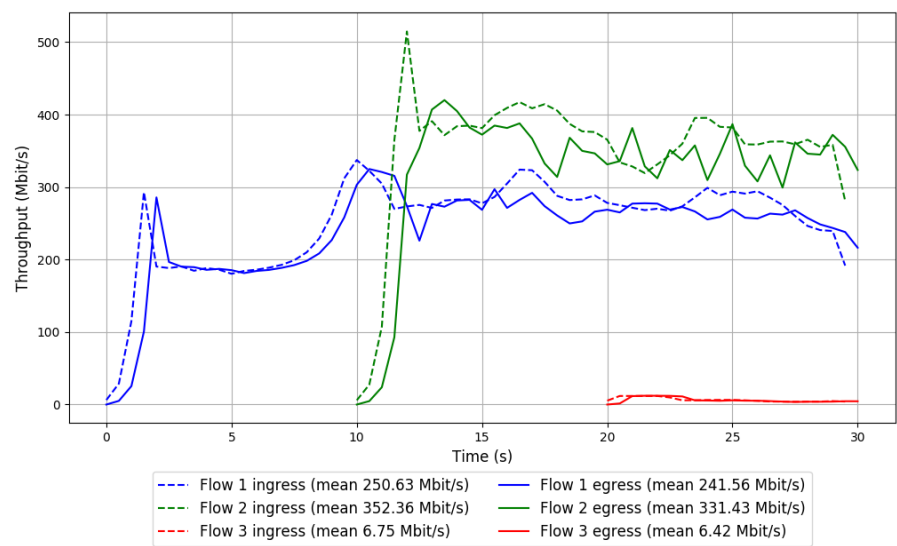


Run 6: Statistics of PCC-Expr

Start at: 2018-07-01 18:24:22  
End at: 2018-07-01 18:24:52  
Local clock offset: 0.028 ms  
Remote clock offset: -0.121 ms

# Below is generated by plot.py at 2018-07-01 22:18:19  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 464.08 Mbit/s  
95th percentile per-packet one-way delay: 198.565 ms  
Loss rate: 4.74%  
-- Flow 1:  
Average throughput: 241.56 Mbit/s  
95th percentile per-packet one-way delay: 180.595 ms  
Loss rate: 3.62%  
-- Flow 2:  
Average throughput: 331.43 Mbit/s  
95th percentile per-packet one-way delay: 218.894 ms  
Loss rate: 5.95%  
-- Flow 3:  
Average throughput: 6.42 Mbit/s  
95th percentile per-packet one-way delay: 178.321 ms  
Loss rate: 4.82%

Run 6: Report of PCC-Expr — Data Link

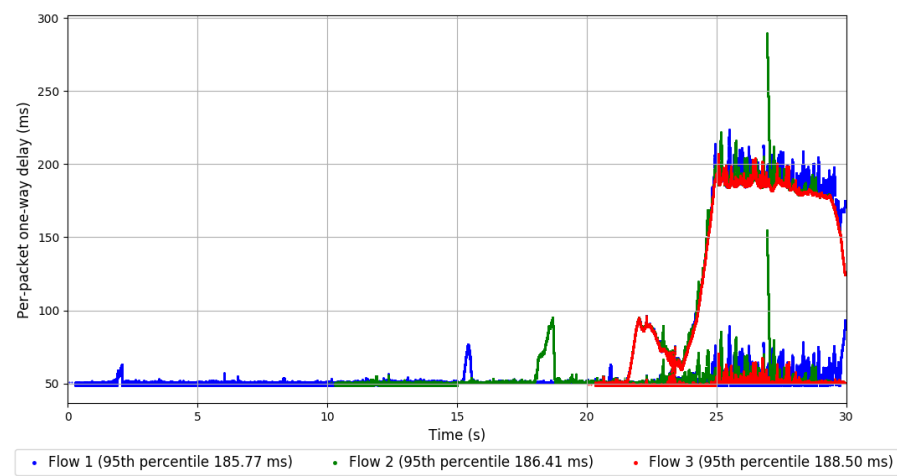
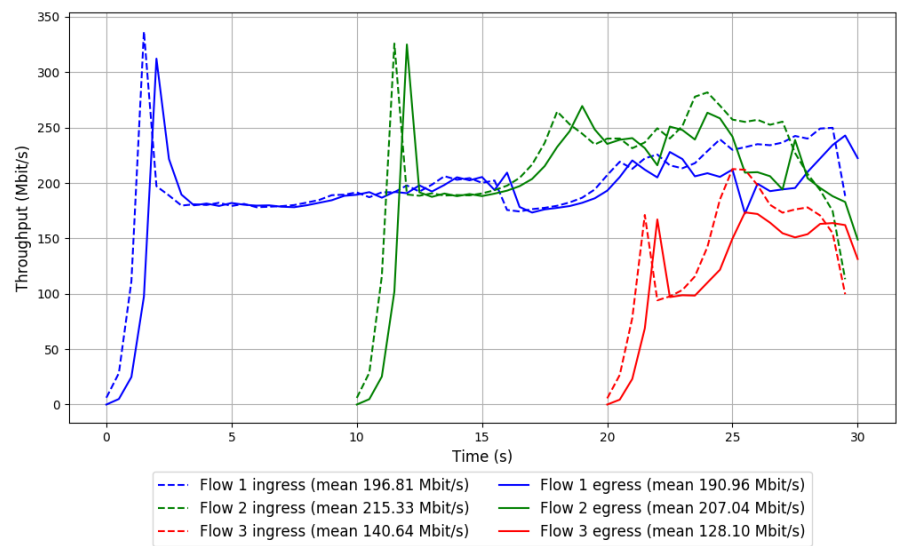


Run 7: Statistics of PCC-Expr

Start at: 2018-07-01 18:48:25  
End at: 2018-07-01 18:48:55  
Local clock offset: 0.038 ms  
Remote clock offset: -0.019 ms

# Below is generated by plot.py at 2018-07-01 22:18:19  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 370.92 Mbit/s  
95th percentile per-packet one-way delay: 186.677 ms  
Loss rate: 4.01%  
-- Flow 1:  
Average throughput: 190.96 Mbit/s  
95th percentile per-packet one-way delay: 185.768 ms  
Loss rate: 2.97%  
-- Flow 2:  
Average throughput: 207.04 Mbit/s  
95th percentile per-packet one-way delay: 186.408 ms  
Loss rate: 3.84%  
-- Flow 3:  
Average throughput: 128.10 Mbit/s  
95th percentile per-packet one-way delay: 188.504 ms  
Loss rate: 8.89%

Run 7: Report of PCC-Expr — Data Link

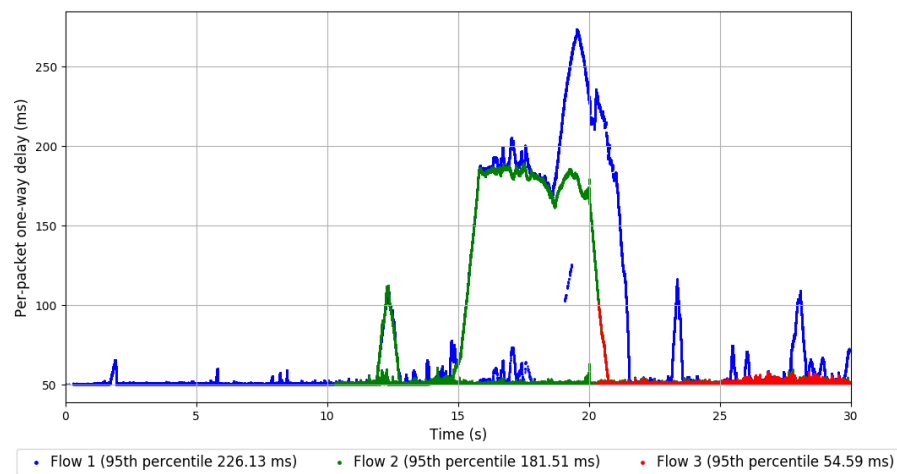
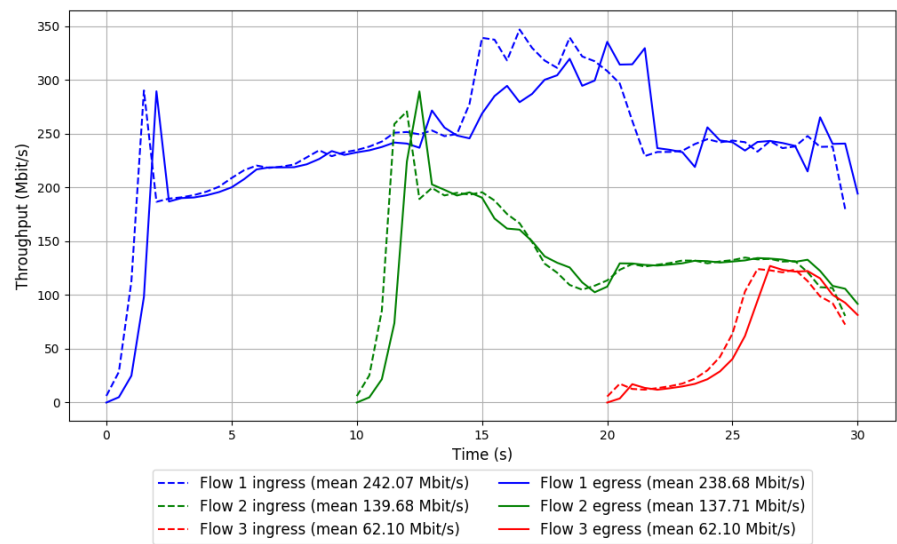


Run 8: Statistics of PCC-Expr

Start at: 2018-07-01 19:12:26  
End at: 2018-07-01 19:12:56  
Local clock offset: 0.097 ms  
Remote clock offset: -0.111 ms

# Below is generated by plot.py at 2018-07-01 22:18:19  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 350.76 Mbit/s  
95th percentile per-packet one-way delay: 212.867 ms  
Loss rate: 1.32%  
-- Flow 1:  
Average throughput: 238.68 Mbit/s  
95th percentile per-packet one-way delay: 226.132 ms  
Loss rate: 1.40%  
-- Flow 2:  
Average throughput: 137.71 Mbit/s  
95th percentile per-packet one-way delay: 181.509 ms  
Loss rate: 1.41%  
-- Flow 3:  
Average throughput: 62.10 Mbit/s  
95th percentile per-packet one-way delay: 54.585 ms  
Loss rate: 0.01%

Run 8: Report of PCC-Expr — Data Link



Run 9: Statistics of PCC-Expr

Start at: 2018-07-01 19:36:32

End at: 2018-07-01 19:37:02

Local clock offset: 0.175 ms

Remote clock offset: 0.009 ms

# Below is generated by plot.py at 2018-07-01 22:20:43

# Datalink statistics

-- Total of 3 flows:

Average throughput: 427.06 Mbit/s

95th percentile per-packet one-way delay: 174.517 ms

Loss rate: 0.95%

-- Flow 1:

Average throughput: 254.63 Mbit/s

95th percentile per-packet one-way delay: 168.980 ms

Loss rate: 0.55%

-- Flow 2:

Average throughput: 255.24 Mbit/s

95th percentile per-packet one-way delay: 179.268 ms

Loss rate: 1.54%

-- Flow 3:

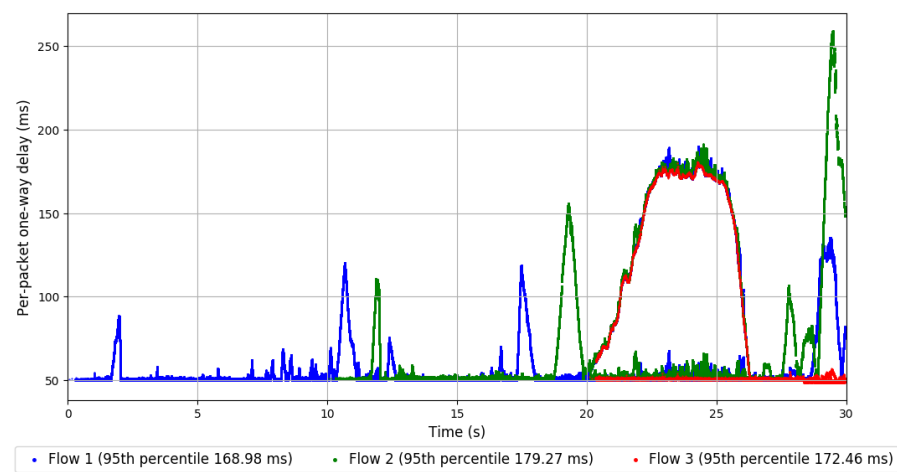
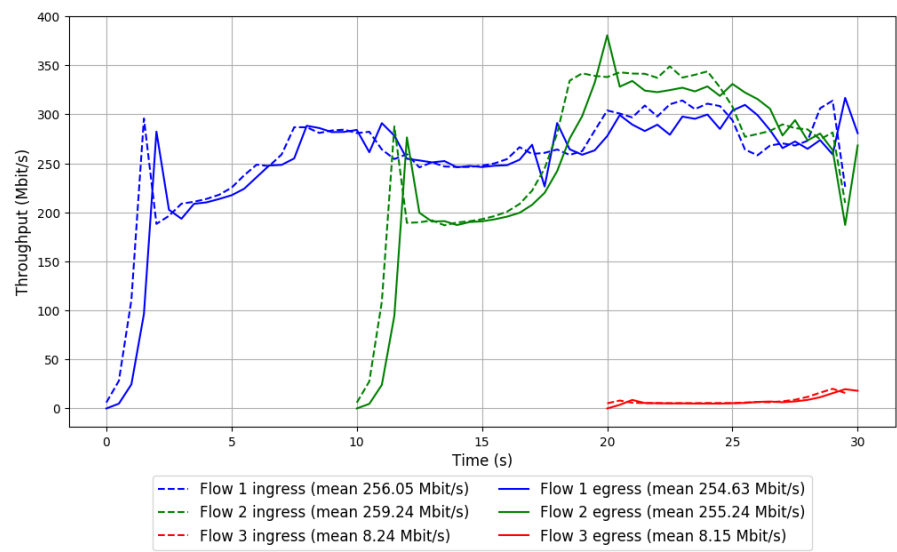
Average throughput: 8.15 Mbit/s

95th percentile per-packet one-way delay: 172.461 ms

Loss rate: 1.11%



Run 9: Report of PCC-Expr — Data Link



Run 10: Statistics of PCC-Expr

Start at: 2018-07-01 20:00:51

End at: 2018-07-01 20:01:21

Local clock offset: 0.12 ms

Remote clock offset: 0.001 ms

# Below is generated by plot.py at 2018-07-01 22:20:43

# Datalink statistics

-- Total of 3 flows:

Average throughput: 395.39 Mbit/s

95th percentile per-packet one-way delay: 121.063 ms

Loss rate: 0.43%

-- Flow 1:

Average throughput: 236.19 Mbit/s

95th percentile per-packet one-way delay: 157.986 ms

Loss rate: 0.62%

-- Flow 2:

Average throughput: 188.77 Mbit/s

95th percentile per-packet one-way delay: 101.707 ms

Loss rate: 0.11%

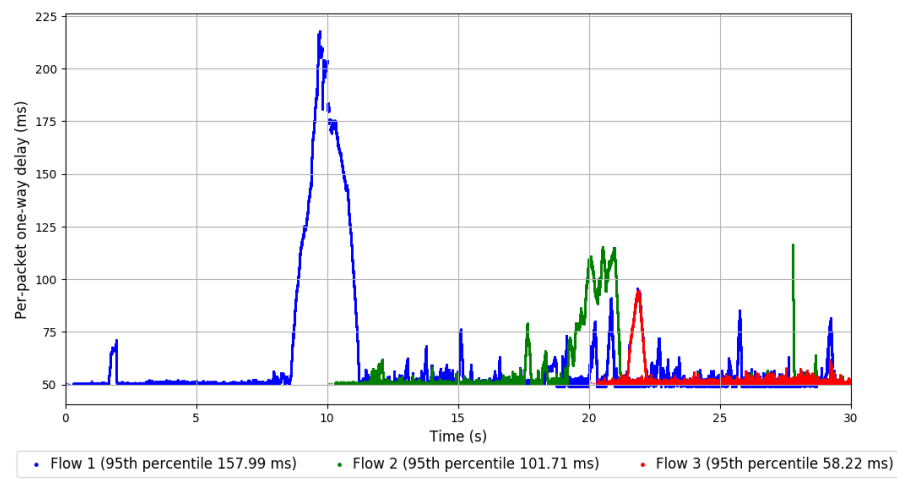
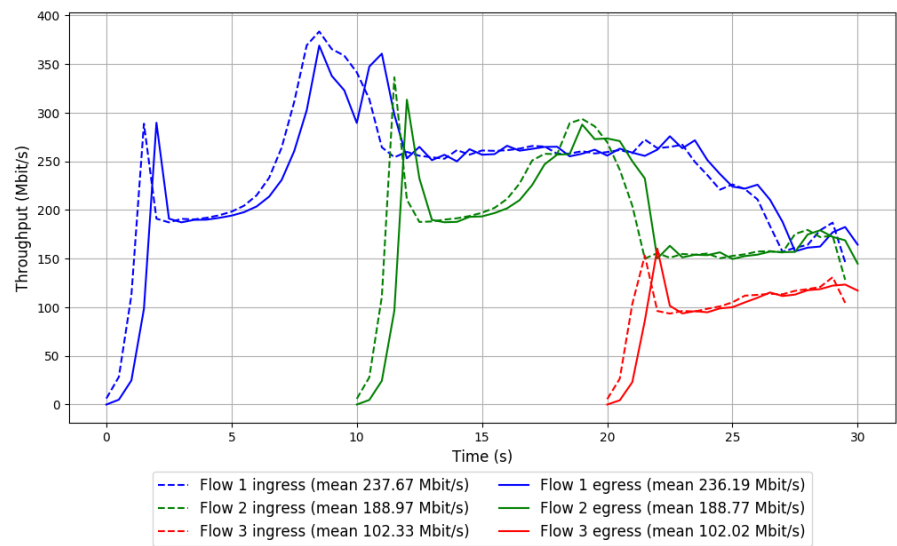
-- Flow 3:

Average throughput: 102.02 Mbit/s

95th percentile per-packet one-way delay: 58.215 ms

Loss rate: 0.30%

Run 10: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2018-07-01 16:39:42

End at: 2018-07-01 16:40:12

Local clock offset: -0.346 ms

Remote clock offset: 0.004 ms

# Below is generated by plot.py at 2018-07-01 22:20:43

# Datalink statistics

-- Total of 3 flows:

Average throughput: 40.37 Mbit/s

95th percentile per-packet one-way delay: 51.122 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 50.081 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 50.22 Mbit/s

95th percentile per-packet one-way delay: 51.125 ms

Loss rate: 0.01%

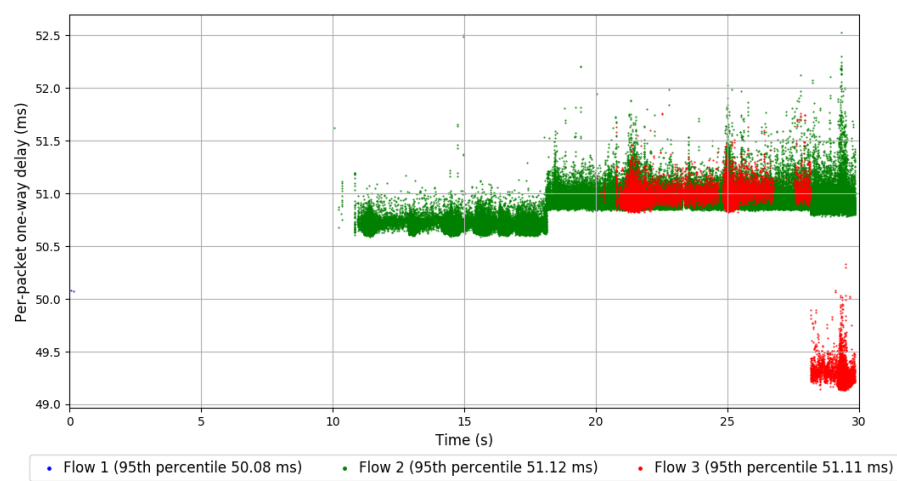
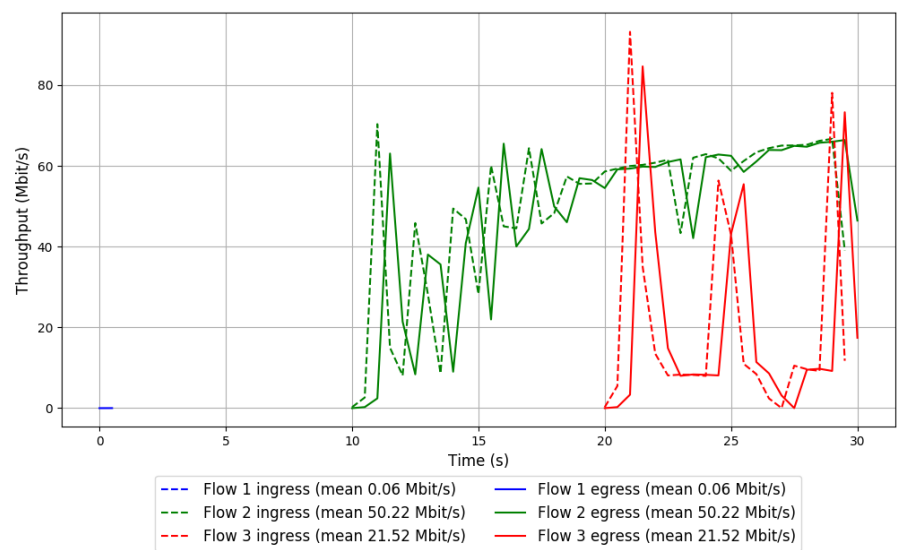
-- Flow 3:

Average throughput: 21.52 Mbit/s

95th percentile per-packet one-way delay: 51.111 ms

Loss rate: 0.00%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-07-01 17:03:53

End at: 2018-07-01 17:04:23

Local clock offset: 0.098 ms

Remote clock offset: -0.02 ms

# Below is generated by plot.py at 2018-07-01 22:20:43

# Datalink statistics

-- Total of 3 flows:

Average throughput: 89.25 Mbit/s

95th percentile per-packet one-way delay: 50.726 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 64.20 Mbit/s

95th percentile per-packet one-way delay: 50.670 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 27.40 Mbit/s

95th percentile per-packet one-way delay: 50.857 ms

Loss rate: 0.00%

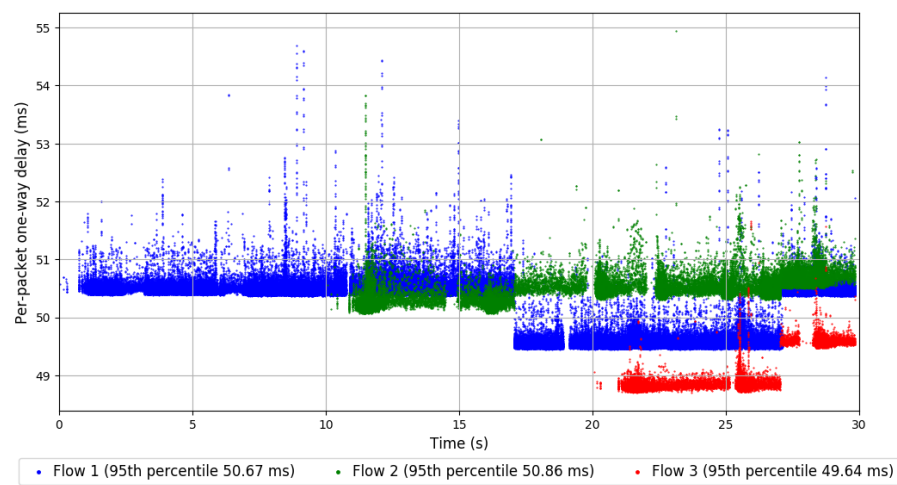
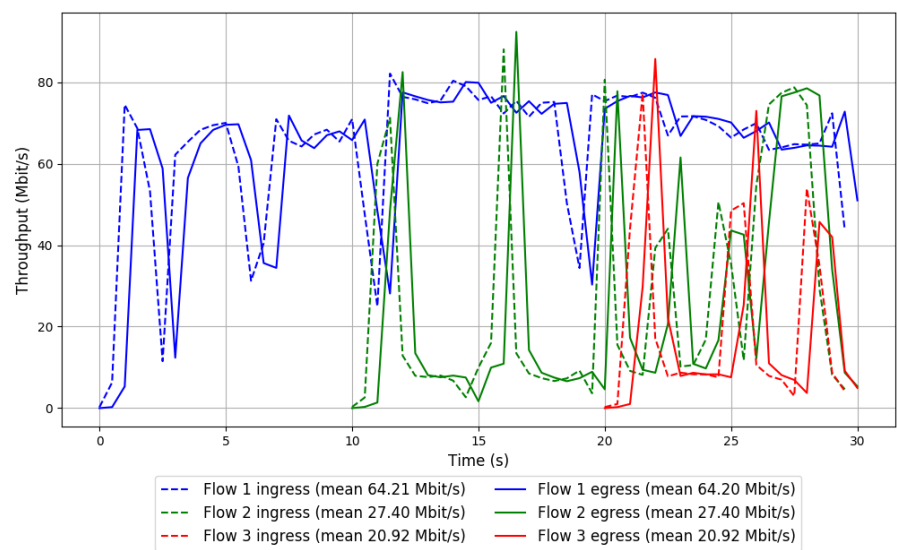
-- Flow 3:

Average throughput: 20.92 Mbit/s

95th percentile per-packet one-way delay: 49.638 ms

Loss rate: 0.00%

Run 2: Report of QUIC Cubic — Data Link



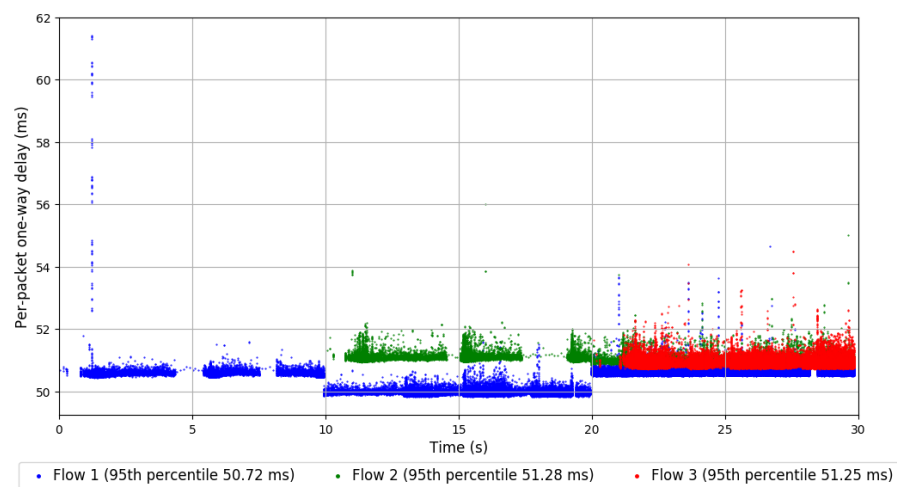
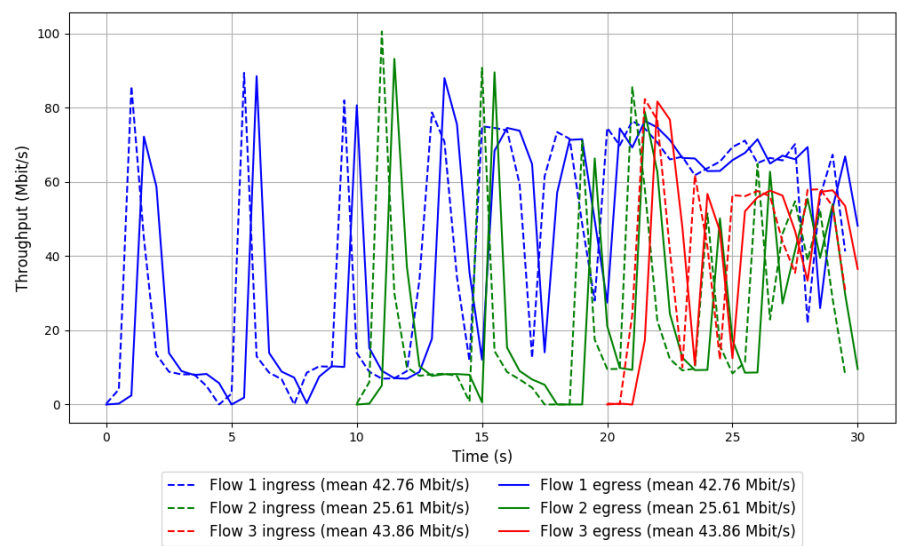
Run 3: Statistics of QUIC Cubic

Start at: 2018-07-01 17:28:10  
End at: 2018-07-01 17:28:40  
Local clock offset: -0.257 ms  
Remote clock offset: -0.052 ms

# Below is generated by plot.py at 2018-07-01 22:20:43  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 74.16 Mbit/s  
95th percentile per-packet one-way delay: 51.142 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 42.76 Mbit/s  
95th percentile per-packet one-way delay: 50.715 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 25.61 Mbit/s  
95th percentile per-packet one-way delay: 51.279 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 43.86 Mbit/s  
95th percentile per-packet one-way delay: 51.249 ms  
Loss rate: 0.00%



Run 3: Report of QUIC Cubic — Data Link

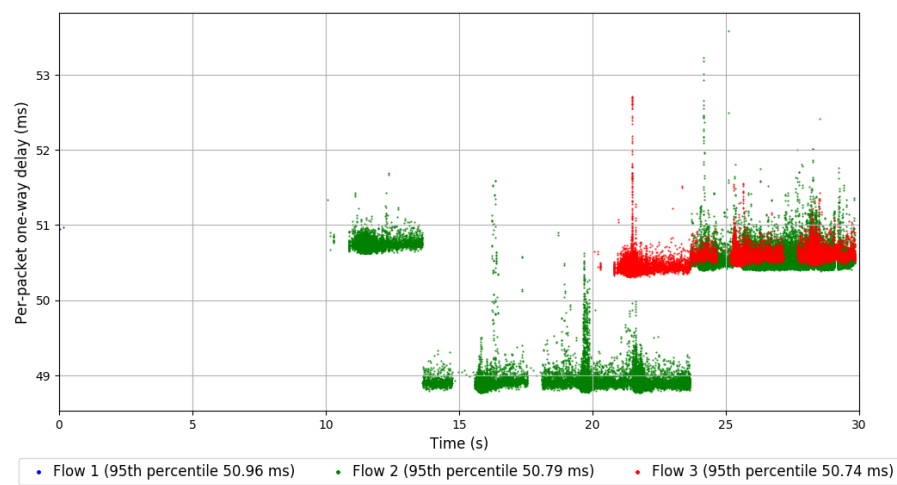
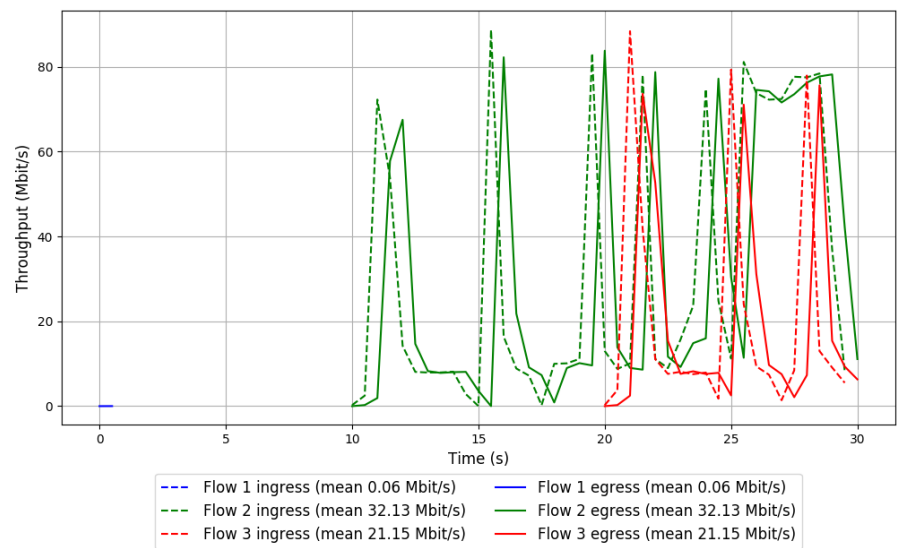


Run 4: Statistics of QUIC Cubic

Start at: 2018-07-01 17:52:16  
End at: 2018-07-01 17:52:46  
Local clock offset: 0.062 ms  
Remote clock offset: -0.104 ms

# Below is generated by plot.py at 2018-07-01 22:20:43  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 28.27 Mbit/s  
95th percentile per-packet one-way delay: 50.778 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.06 Mbit/s  
95th percentile per-packet one-way delay: 50.964 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 32.13 Mbit/s  
95th percentile per-packet one-way delay: 50.787 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 21.15 Mbit/s  
95th percentile per-packet one-way delay: 50.738 ms  
Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link

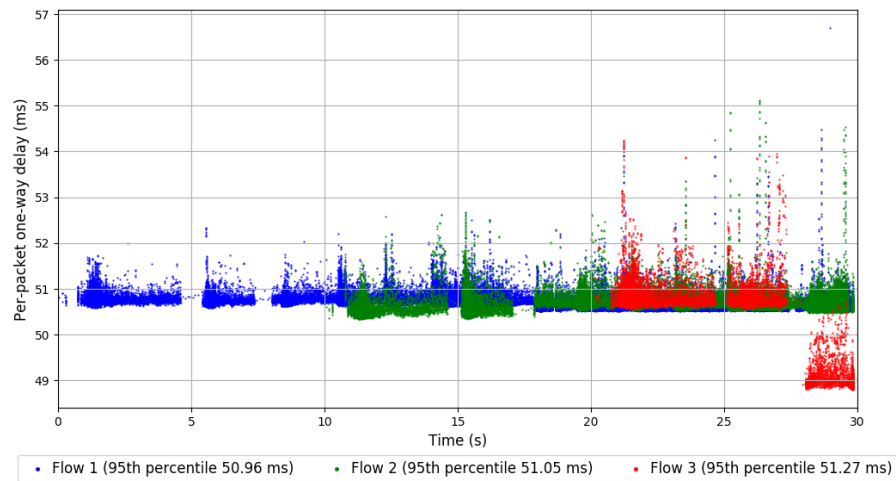
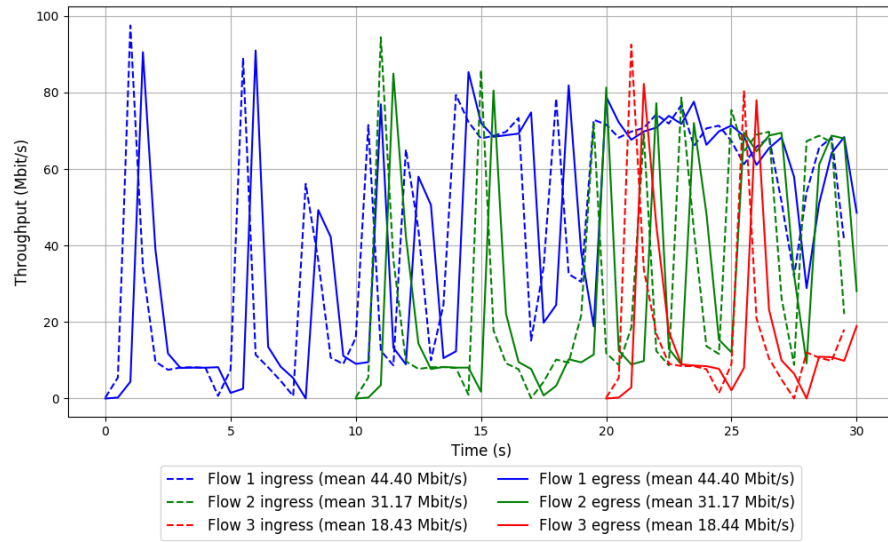


Run 5: Statistics of QUIC Cubic

Start at: 2018-07-01 18:16:12  
End at: 2018-07-01 18:16:42  
Local clock offset: 0.044 ms  
Remote clock offset: -0.169 ms

# Below is generated by plot.py at 2018-07-01 22:20:43  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 71.14 Mbit/s  
95th percentile per-packet one-way delay: 51.010 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 44.40 Mbit/s  
95th percentile per-packet one-way delay: 50.958 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 31.17 Mbit/s  
95th percentile per-packet one-way delay: 51.045 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 18.44 Mbit/s  
95th percentile per-packet one-way delay: 51.274 ms  
Loss rate: 0.00%

## Run 5: Report of QUIC Cubic — Data Link

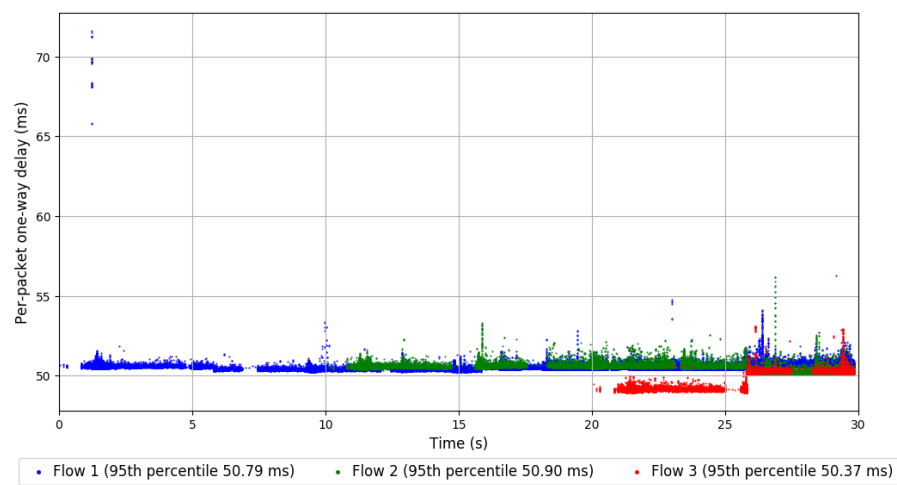
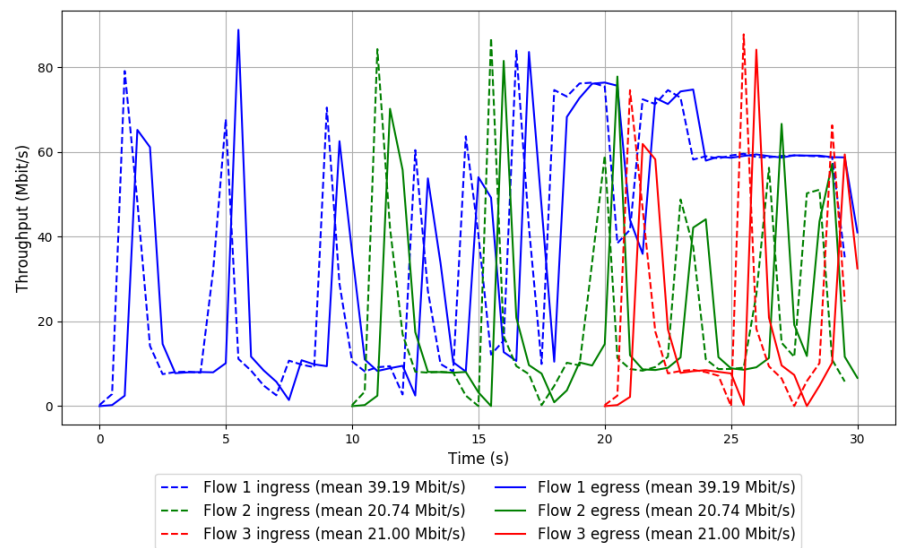


Run 6: Statistics of QUIC Cubic

Start at: 2018-07-01 18:40:14  
End at: 2018-07-01 18:40:44  
Local clock offset: 0.035 ms  
Remote clock offset: -0.048 ms

# Below is generated by plot.py at 2018-07-01 22:20:43  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 59.85 Mbit/s  
95th percentile per-packet one-way delay: 50.798 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 39.19 Mbit/s  
95th percentile per-packet one-way delay: 50.789 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 20.74 Mbit/s  
95th percentile per-packet one-way delay: 50.895 ms  
Loss rate: 0.01%  
-- Flow 3:  
Average throughput: 21.00 Mbit/s  
95th percentile per-packet one-way delay: 50.368 ms  
Loss rate: 0.00%

Run 6: Report of QUIC Cubic — Data Link



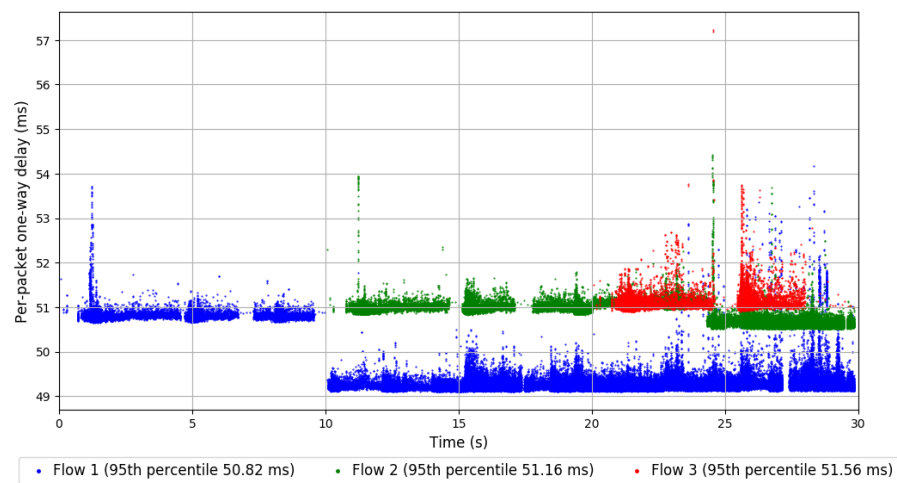
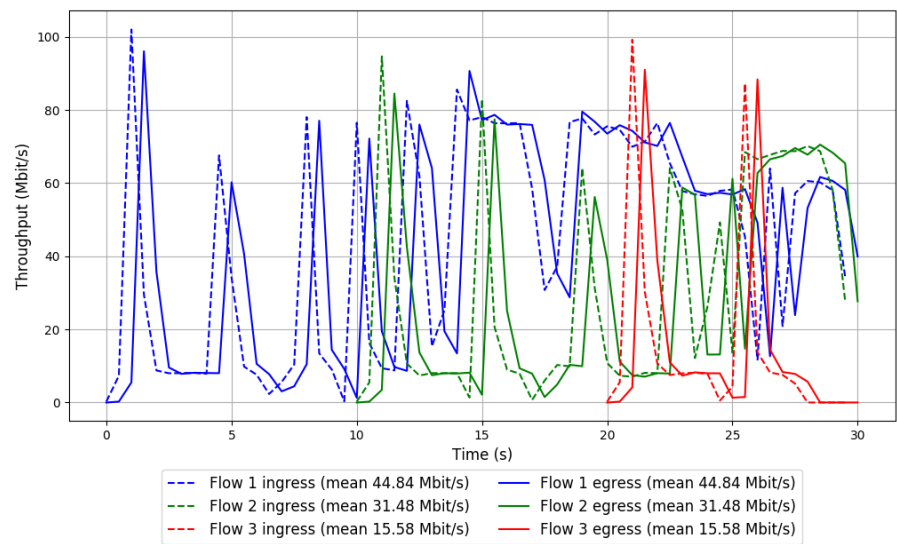
Run 7: Statistics of QUIC Cubic

Start at: 2018-07-01 19:04:10  
End at: 2018-07-01 19:04:40  
Local clock offset: -0.259 ms  
Remote clock offset: -0.073 ms

# Below is generated by plot.py at 2018-07-01 22:20:43  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 70.85 Mbit/s  
95th percentile per-packet one-way delay: 51.133 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 44.84 Mbit/s  
95th percentile per-packet one-way delay: 50.822 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 31.48 Mbit/s  
95th percentile per-packet one-way delay: 51.155 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 15.58 Mbit/s  
95th percentile per-packet one-way delay: 51.563 ms  
Loss rate: 0.00%



Run 7: Report of QUIC Cubic — Data Link

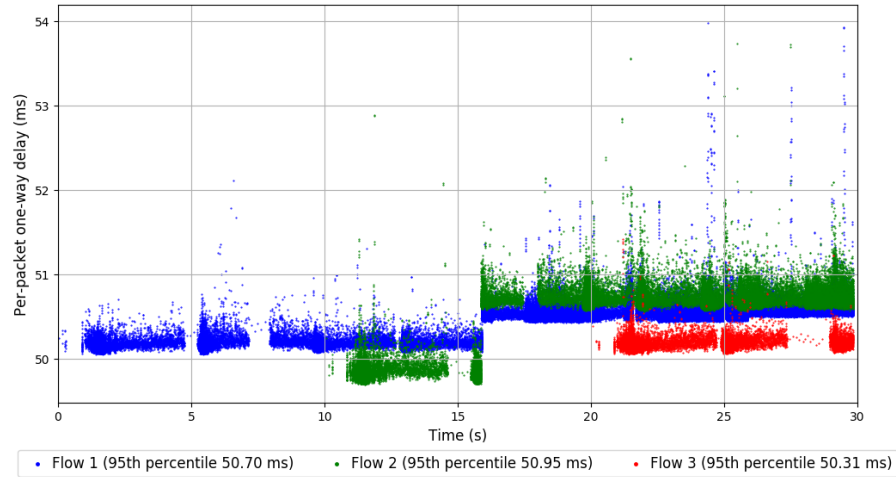
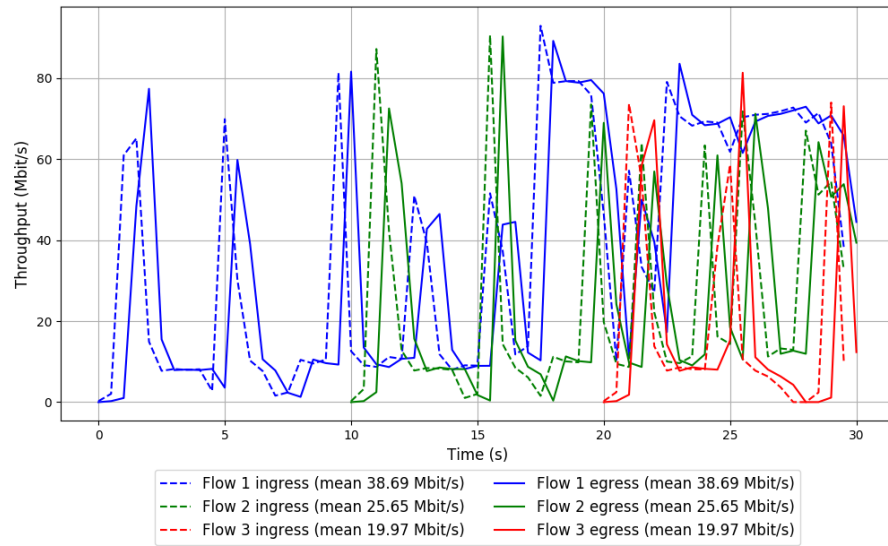


Run 8: Statistics of QUIC Cubic

Start at: 2018-07-01 19:28:14  
End at: 2018-07-01 19:28:44  
Local clock offset: 0.171 ms  
Remote clock offset: -0.152 ms

# Below is generated by plot.py at 2018-07-01 22:20:43  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 62.27 Mbit/s  
95th percentile per-packet one-way delay: 50.818 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 38.69 Mbit/s  
95th percentile per-packet one-way delay: 50.696 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 25.65 Mbit/s  
95th percentile per-packet one-way delay: 50.948 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 19.97 Mbit/s  
95th percentile per-packet one-way delay: 50.315 ms  
Loss rate: 0.00%

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



Run 9: Statistics of QUIC Cubic

Start at: 2018-07-01 19:52:33

End at: 2018-07-01 19:53:03

Local clock offset: 0.109 ms

Remote clock offset: 0.038 ms

# Below is generated by plot.py at 2018-07-01 22:20:43

# Datalink statistics

-- Total of 3 flows:

Average throughput: 70.36 Mbit/s

95th percentile per-packet one-way delay: 50.714 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 41.66 Mbit/s

95th percentile per-packet one-way delay: 50.611 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 34.94 Mbit/s

95th percentile per-packet one-way delay: 50.745 ms

Loss rate: 0.00%

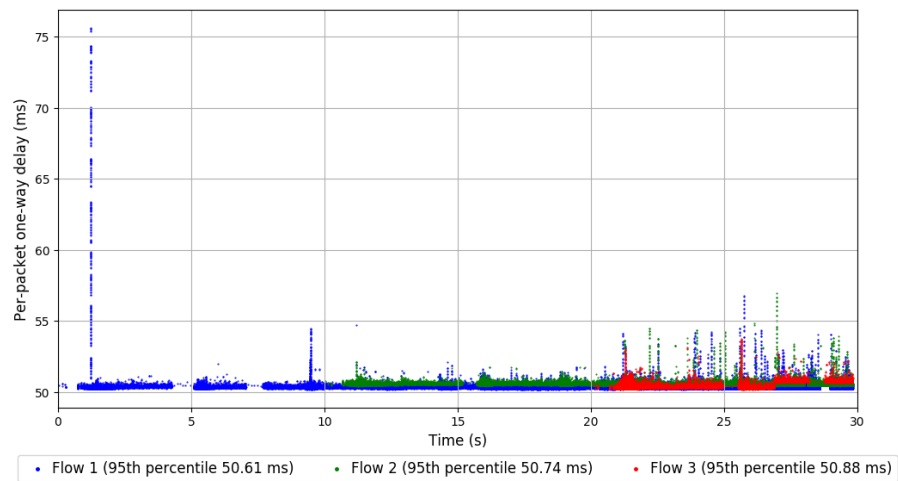
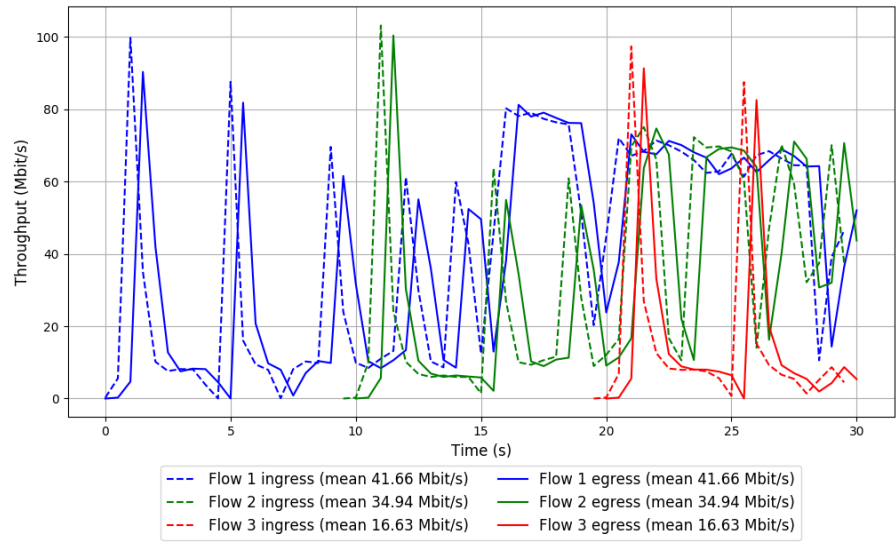
-- Flow 3:

Average throughput: 16.63 Mbit/s

95th percentile per-packet one-way delay: 50.878 ms

Loss rate: 0.00%

# Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-07-01 20:16:51

End at: 2018-07-01 20:17:21

Local clock offset: 0.148 ms

Remote clock offset: 0.009 ms

# Below is generated by plot.py at 2018-07-01 22:20:43

# Datalink statistics

-- Total of 3 flows:

Average throughput: 61.52 Mbit/s

95th percentile per-packet one-way delay: 50.820 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 37.84 Mbit/s

95th percentile per-packet one-way delay: 50.852 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 27.98 Mbit/s

95th percentile per-packet one-way delay: 50.660 ms

Loss rate: 0.00%

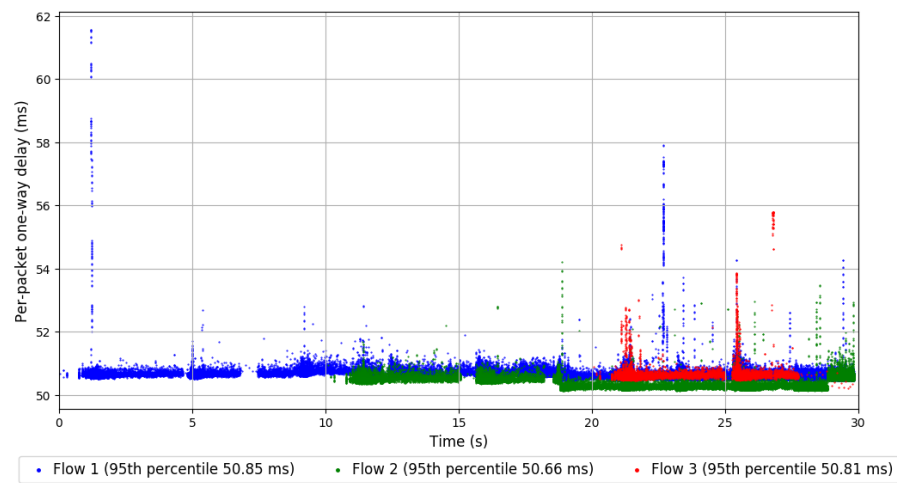
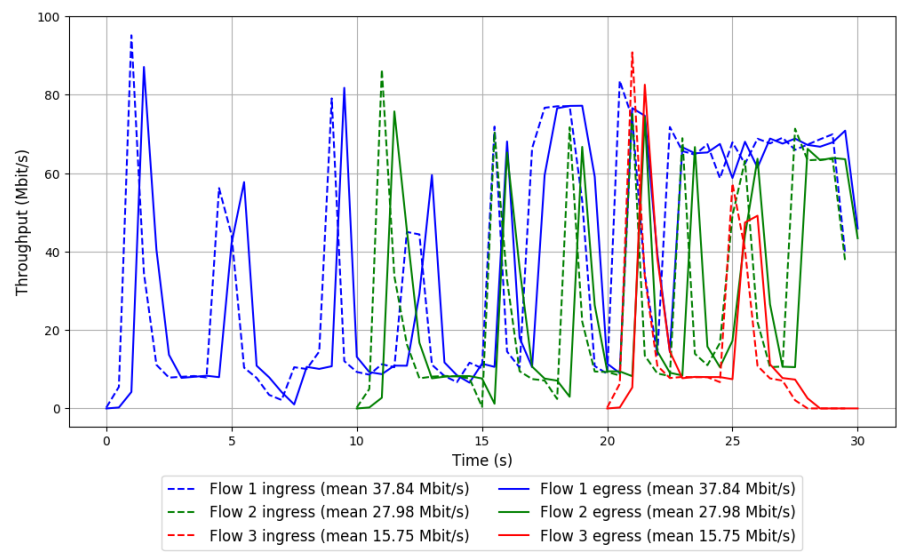
-- Flow 3:

Average throughput: 15.75 Mbit/s

95th percentile per-packet one-way delay: 50.815 ms

Loss rate: 0.00%

Run 10: Report of QUIC Cubic — Data Link



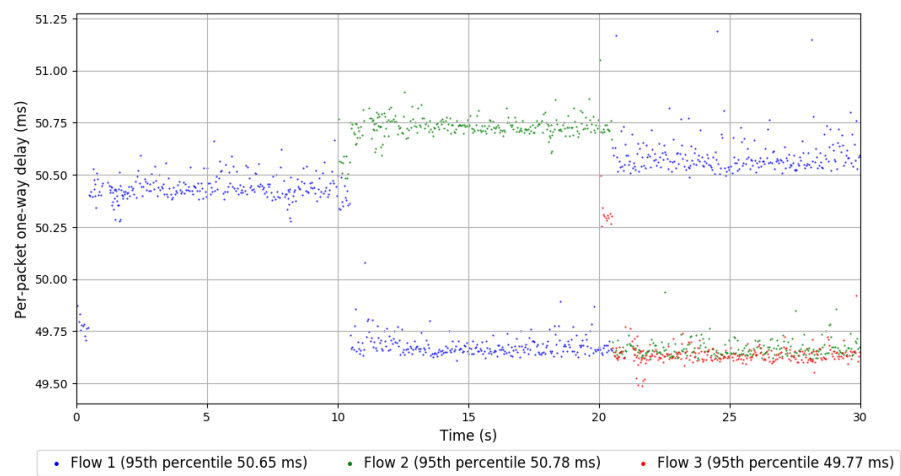
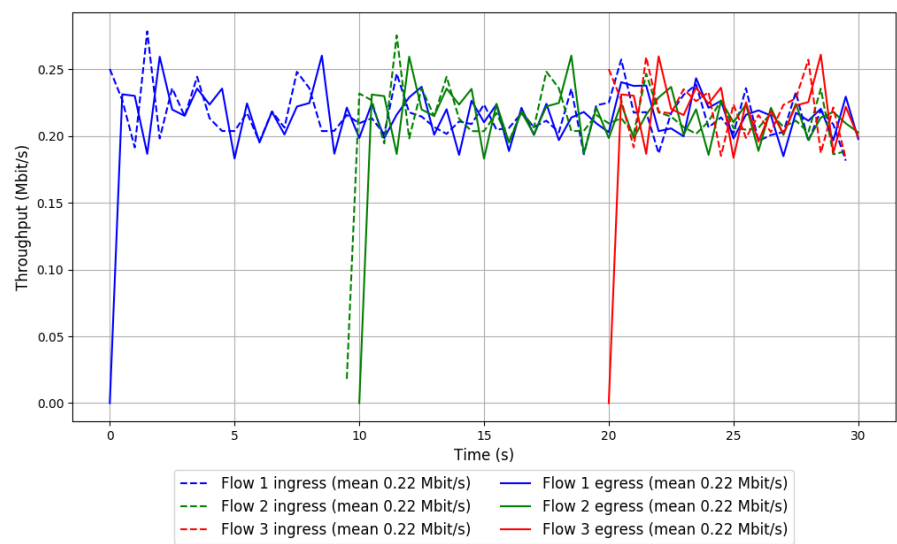
```
Run 1: Statistics of SReAM

Start at: 2018-07-01 16:46:50
End at: 2018-07-01 16:47:20
Local clock offset: 0.043 ms
Remote clock offset: -0.036 ms

# Below is generated by plot.py at 2018-07-01 22:20:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 50.756 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.645 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.780 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 49.771 ms
Loss rate: 0.00%
```



Run 1: Report of SReAM — Data Link

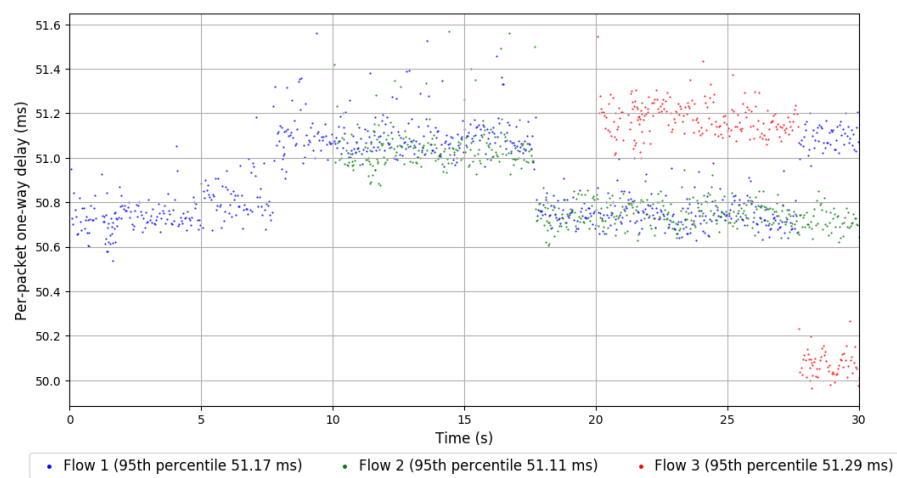
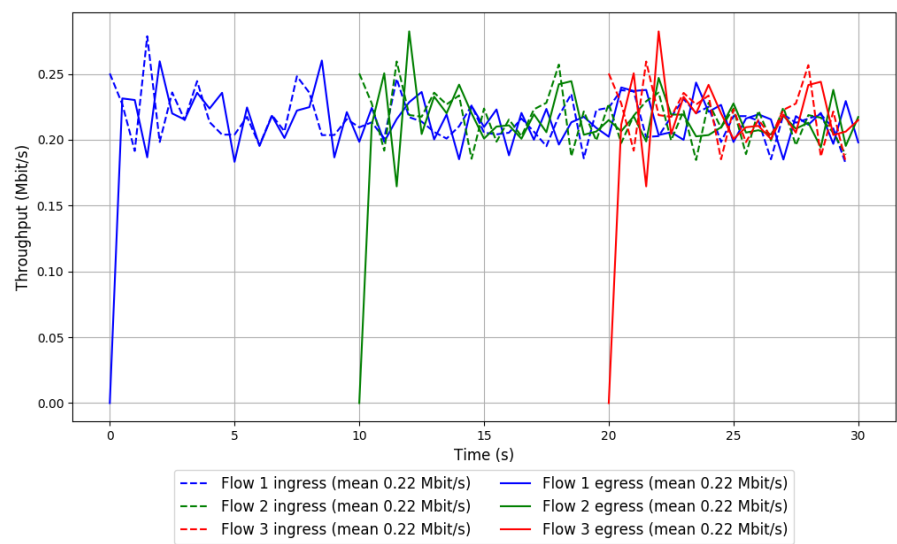


Run 2: Statistics of SReAM

Start at: 2018-07-01 17:11:02  
End at: 2018-07-01 17:11:32  
Local clock offset: -0.257 ms  
Remote clock offset: -0.011 ms

# Below is generated by plot.py at 2018-07-01 22:20:43  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 51.231 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 51.172 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 51.108 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 51.286 ms  
Loss rate: 0.00%

Run 2: Report of SReAM — Data Link

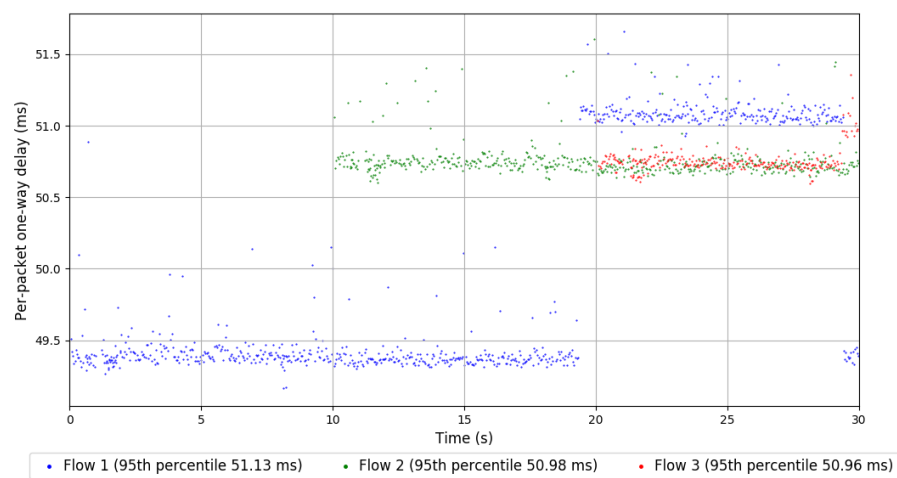
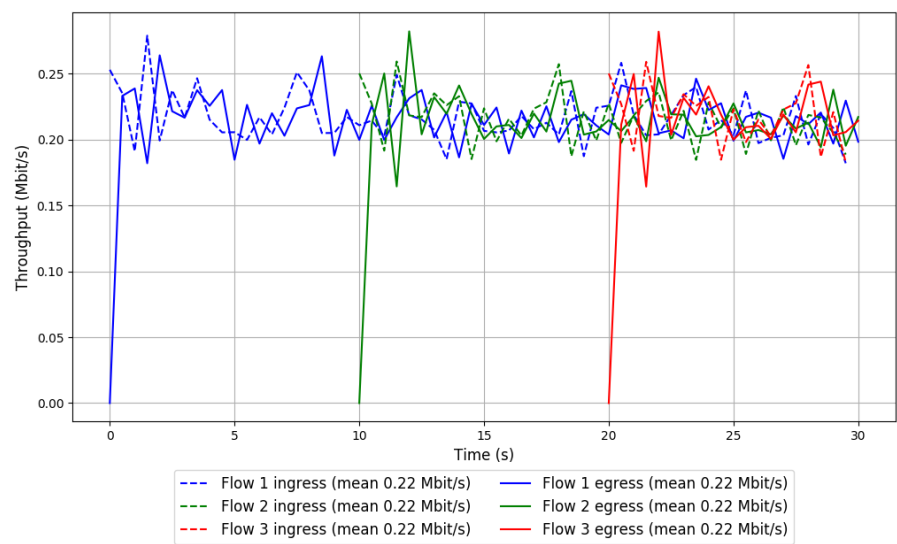


Run 3: Statistics of SReAM

Start at: 2018-07-01 17:35:11  
End at: 2018-07-01 17:35:41  
Local clock offset: -0.286 ms  
Remote clock offset: -0.024 ms

# Below is generated by plot.py at 2018-07-01 22:20:43  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 51.114 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 51.133 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 50.982 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 50.962 ms  
Loss rate: 0.00%

Run 3: Report of SReAM — Data Link

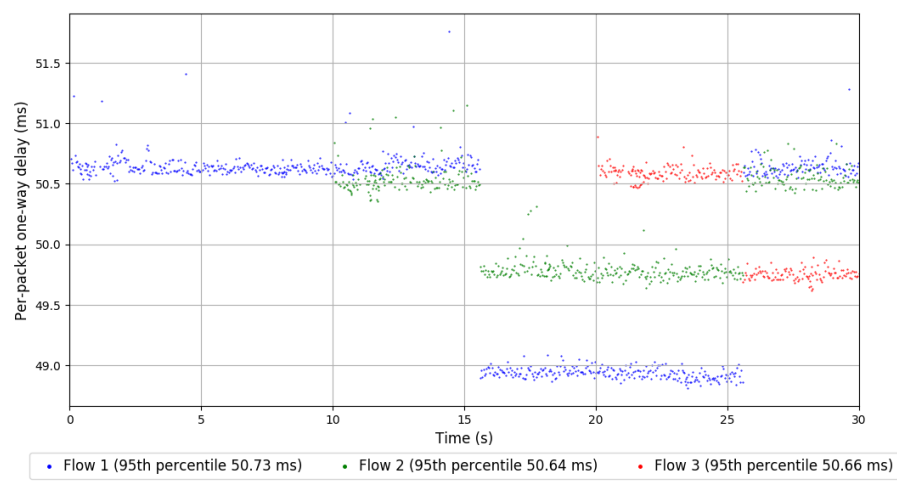
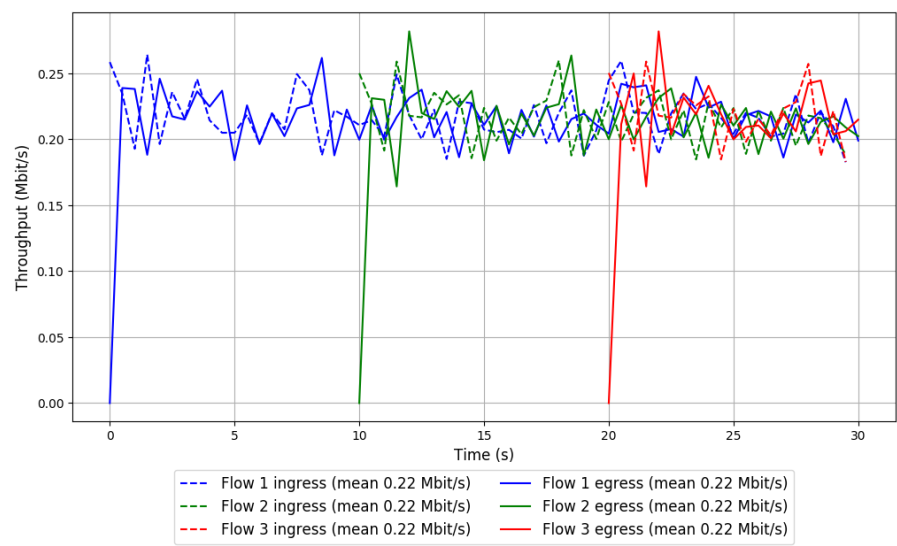


Run 4: Statistics of SReAM

Start at: 2018-07-01 17:59:15  
End at: 2018-07-01 17:59:45  
Local clock offset: 0.088 ms  
Remote clock offset: -0.141 ms

# Below is generated by plot.py at 2018-07-01 22:20:43  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.44 Mbit/s  
95th percentile per-packet one-way delay: 50.700 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 50.726 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 50.639 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 50.655 ms  
Loss rate: 0.00%

Run 4: Report of SCReAM — Data Link



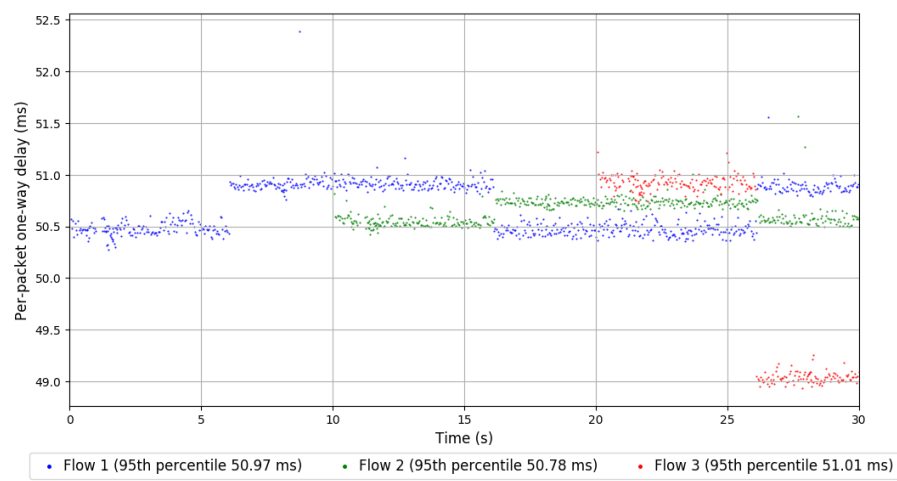
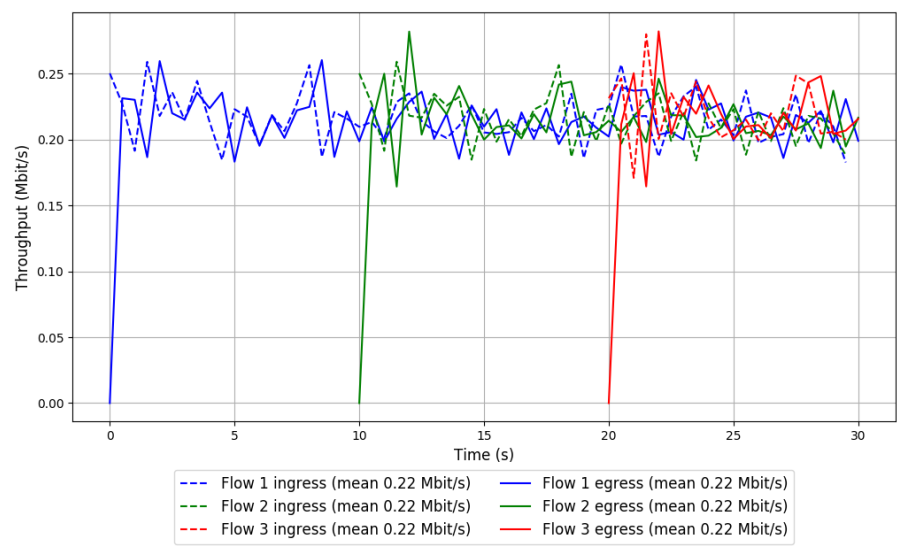
Run 5: Statistics of SReAM

Start at: 2018-07-01 18:23:14  
End at: 2018-07-01 18:23:44  
Local clock offset: 0.012 ms  
Remote clock offset: -0.095 ms

# Below is generated by plot.py at 2018-07-01 22:20:43  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 50.969 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 50.968 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 50.780 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 51.009 ms  
Loss rate: 0.00%



Run 5: Report of SReAM — Data Link



Run 6: Statistics of SReAM

Start at: 2018-07-01 18:47:17

End at: 2018-07-01 18:47:47

Local clock offset: -0.356 ms

Remote clock offset: 0.042 ms

# Below is generated by plot.py at 2018-07-01 22:20:43

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 51.222 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 51.227 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 51.230 ms

Loss rate: 0.00%

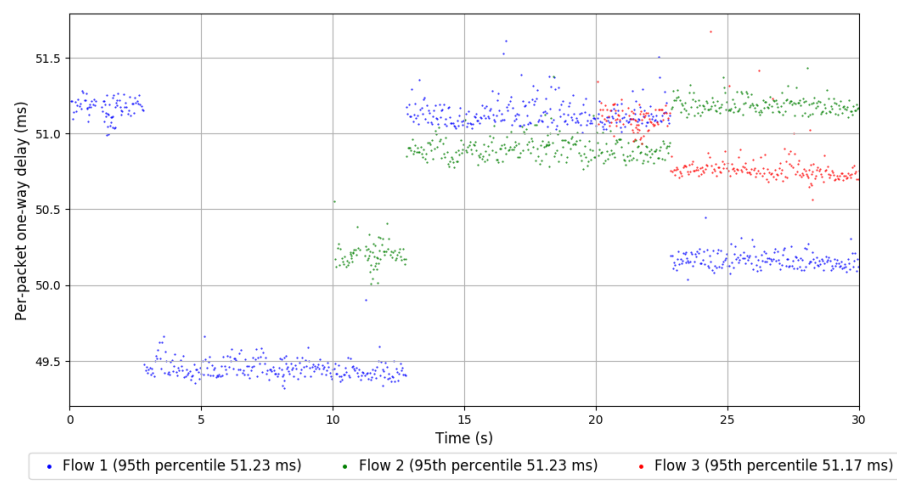
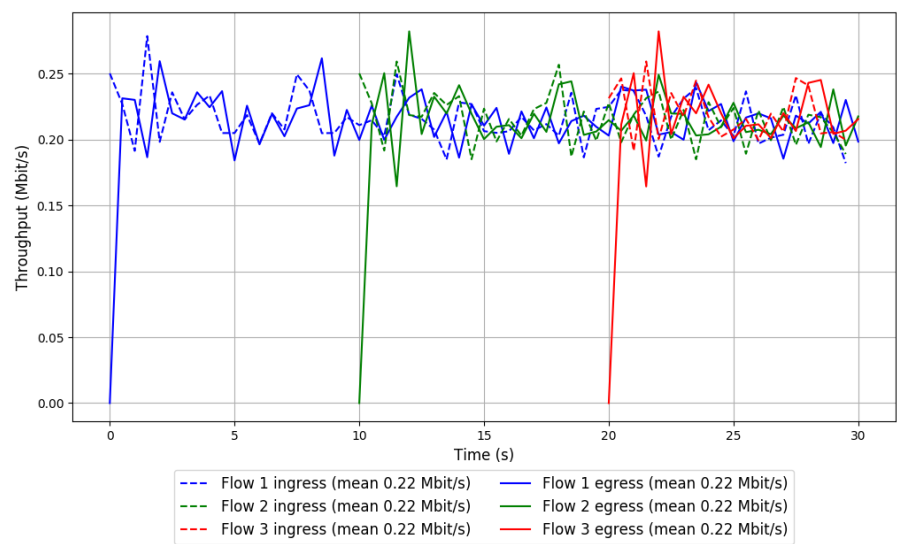
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 51.168 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link

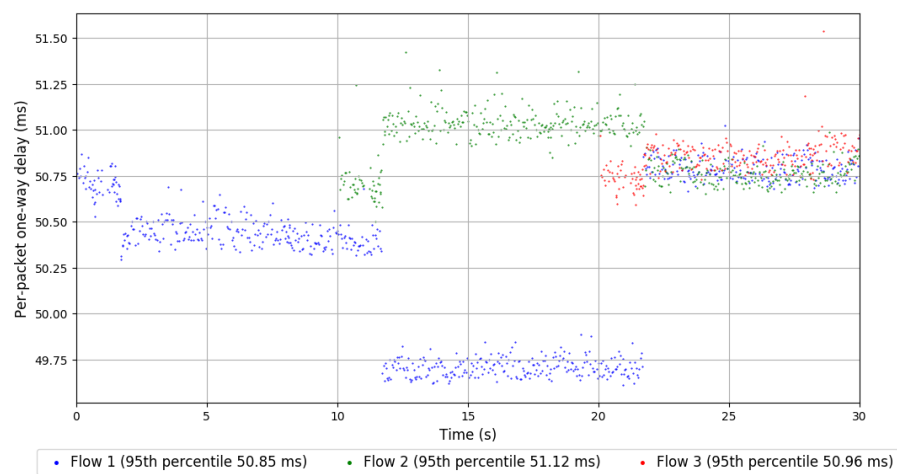
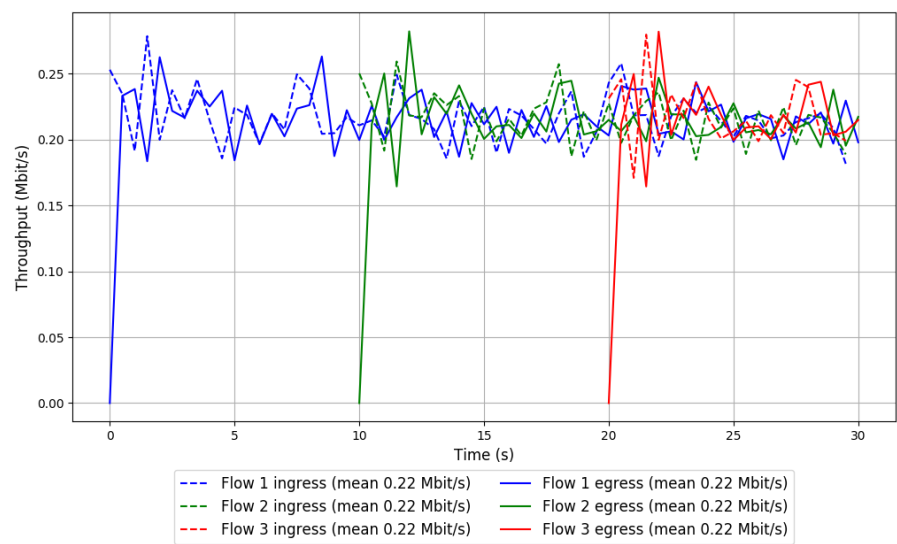


Run 7: Statistics of SReAM

Start at: 2018-07-01 19:11:18  
End at: 2018-07-01 19:11:48  
Local clock offset: 0.131 ms  
Remote clock offset: -0.139 ms

# Below is generated by plot.py at 2018-07-01 22:20:43  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 51.059 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 50.851 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 51.123 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 50.964 ms  
Loss rate: 0.00%

Run 7: Report of SReAM — Data Link

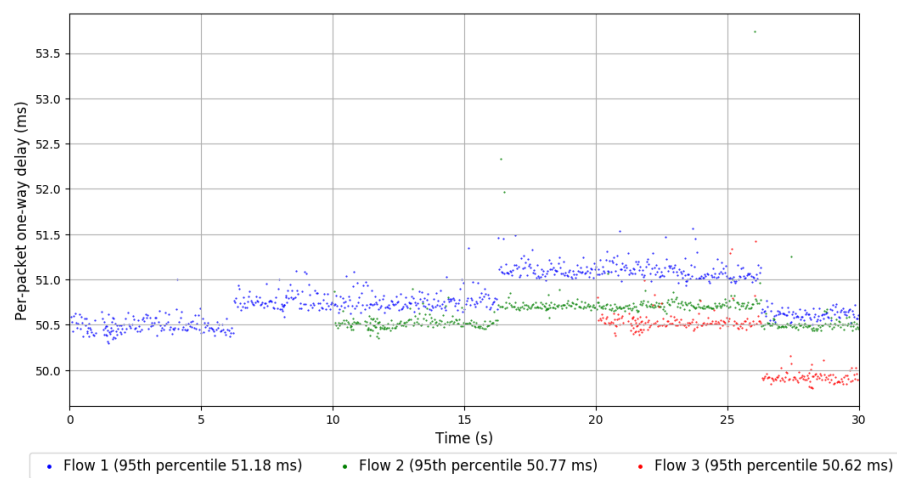
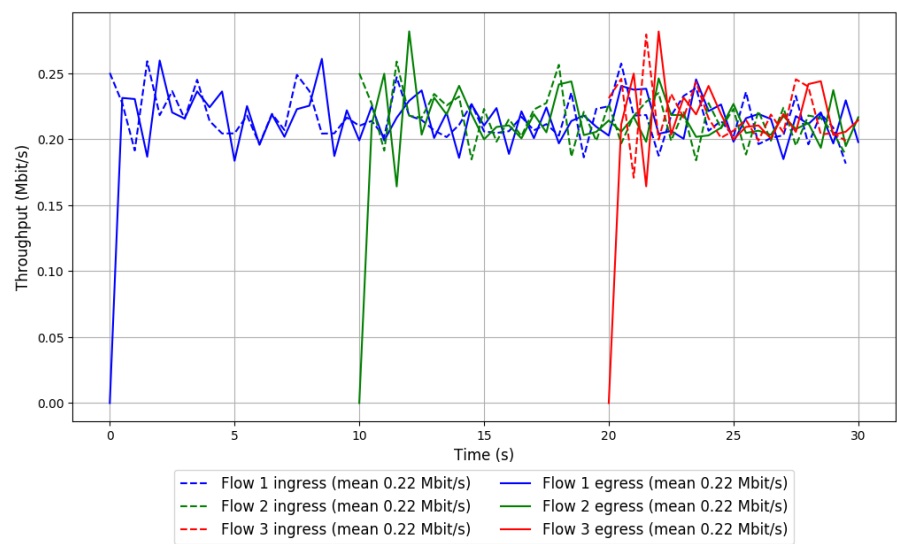


Run 8: Statistics of SReAM

Start at: 2018-07-01 19:35:24  
End at: 2018-07-01 19:35:54  
Local clock offset: 0.098 ms  
Remote clock offset: -0.051 ms

# Below is generated by plot.py at 2018-07-01 22:20:43  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 51.130 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 51.177 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 50.775 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 50.625 ms  
Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SReAM

Start at: 2018-07-01 19:59:44

End at: 2018-07-01 20:00:14

Local clock offset: 0.152 ms

Remote clock offset: 0.005 ms

# Below is generated by plot.py at 2018-07-01 22:20:43

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 51.047 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 51.100 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.798 ms

Loss rate: 0.00%

-- Flow 3:

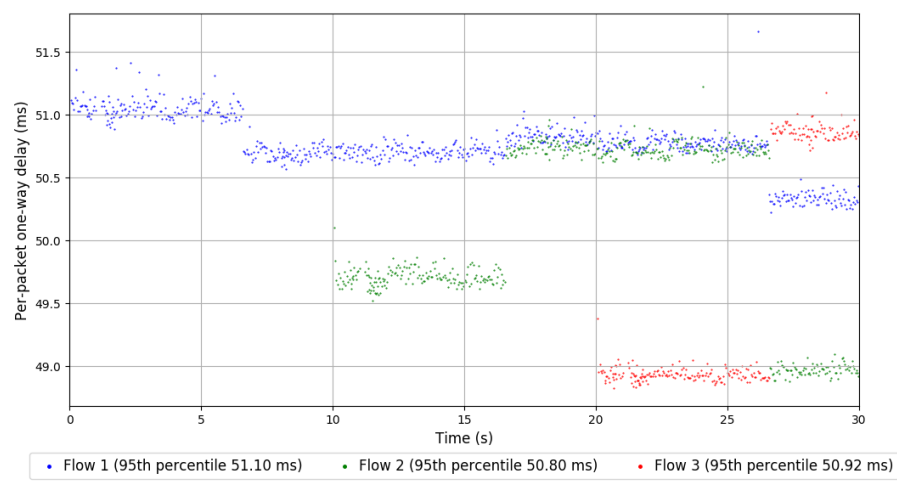
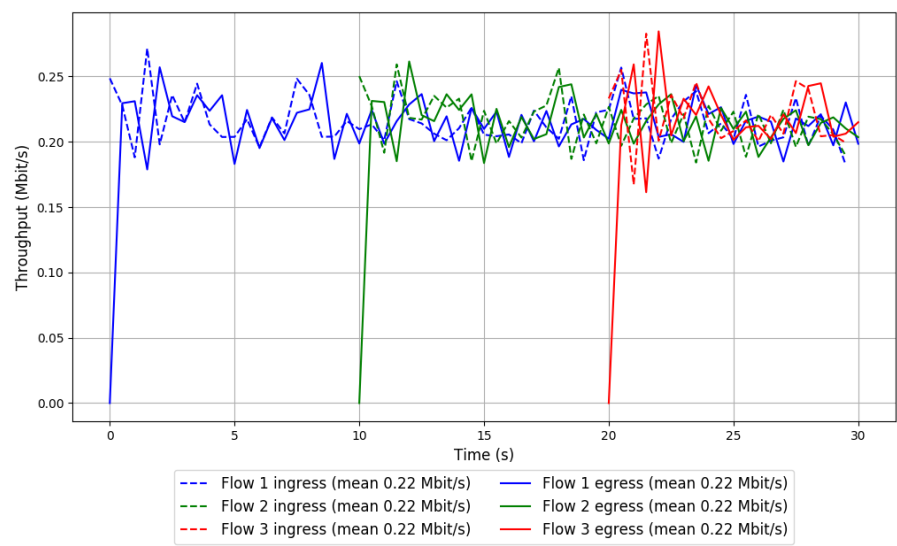
Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.917 ms

Loss rate: 0.00%



Run 9: Report of SReAM — Data Link

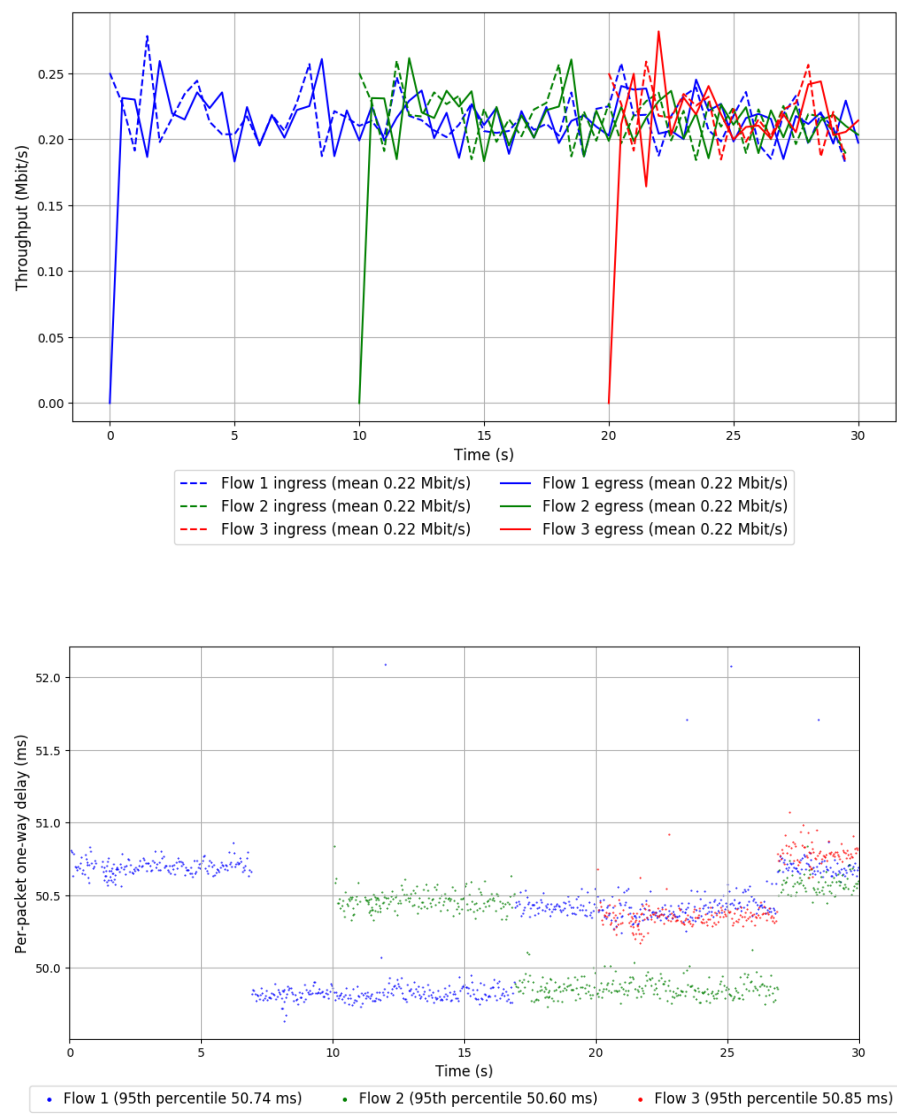


Run 10: Statistics of SReAM

Start at: 2018-07-01 20:24:03  
End at: 2018-07-01 20:24:33  
Local clock offset: 0.145 ms  
Remote clock offset: -0.004 ms

# Below is generated by plot.py at 2018-07-01 22:20:43  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 50.771 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 50.744 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 50.599 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 50.847 ms  
Loss rate: 0.00%

Run 10: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2018-07-01 16:43:21

End at: 2018-07-01 16:43:51

Local clock offset: 0.431 ms

Remote clock offset: 0.005 ms

# Below is generated by plot.py at 2018-07-01 22:20:43

# Datalink statistics

-- Total of 3 flows:

Average throughput: 13.78 Mbit/s

95th percentile per-packet one-way delay: 50.998 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 7.00 Mbit/s

95th percentile per-packet one-way delay: 51.067 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 6.92 Mbit/s

95th percentile per-packet one-way delay: 50.908 ms

Loss rate: 0.00%

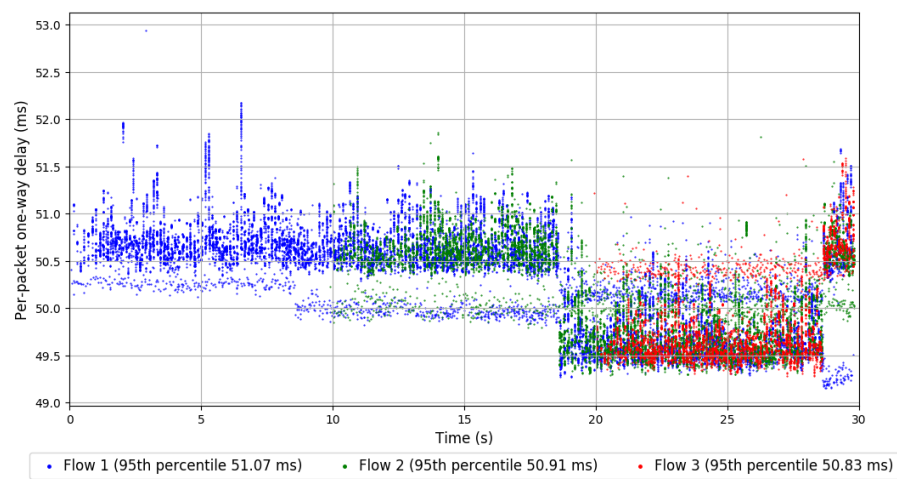
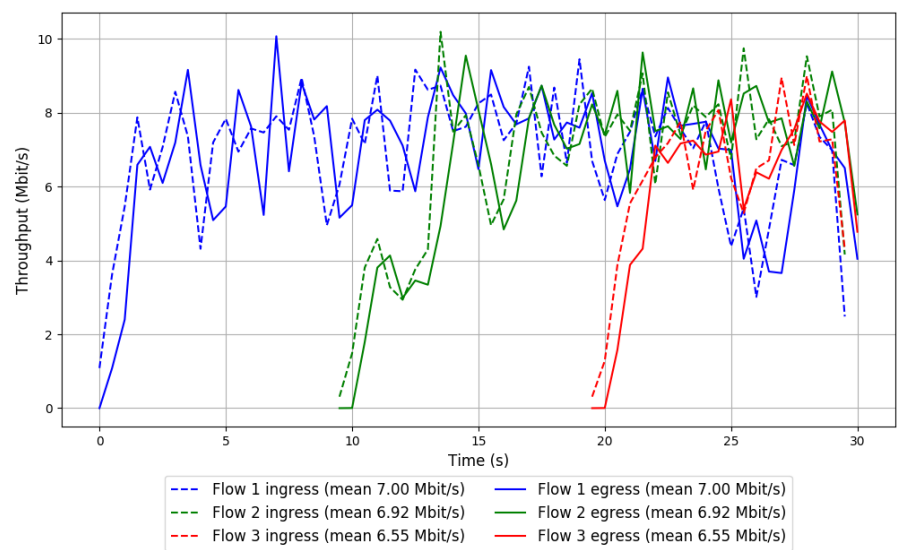
-- Flow 3:

Average throughput: 6.55 Mbit/s

95th percentile per-packet one-way delay: 50.825 ms

Loss rate: 0.00%

Run 1: Report of Sprout — Data Link

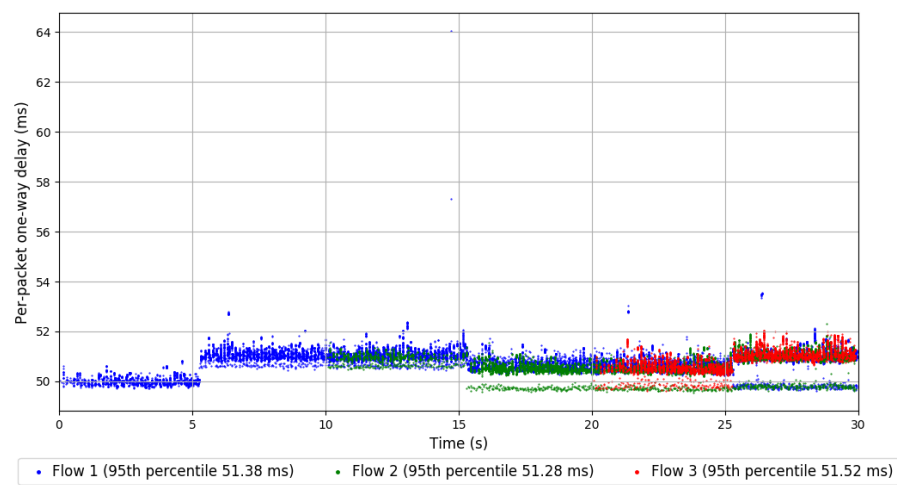
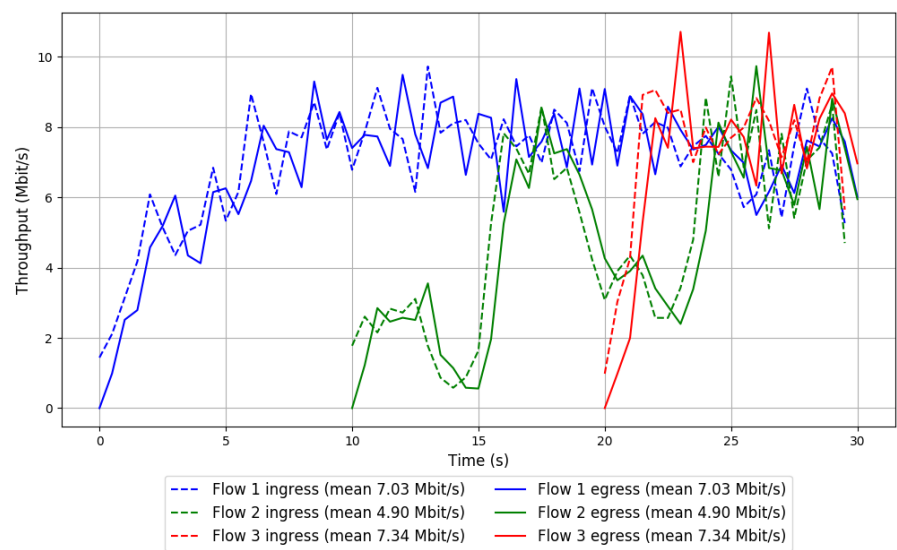


Run 2: Statistics of Sprout

Start at: 2018-07-01 17:07:35  
End at: 2018-07-01 17:08:05  
Local clock offset: 0.098 ms  
Remote clock offset: 0.043 ms

```
# Below is generated by plot.py at 2018-07-01 22:20:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.70 Mbit/s
95th percentile per-packet one-way delay: 51.381 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.03 Mbit/s
95th percentile per-packet one-way delay: 51.382 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 4.90 Mbit/s
95th percentile per-packet one-way delay: 51.277 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 7.34 Mbit/s
95th percentile per-packet one-way delay: 51.515 ms
Loss rate: 0.00%
```

Run 2: Report of Sprout — Data Link



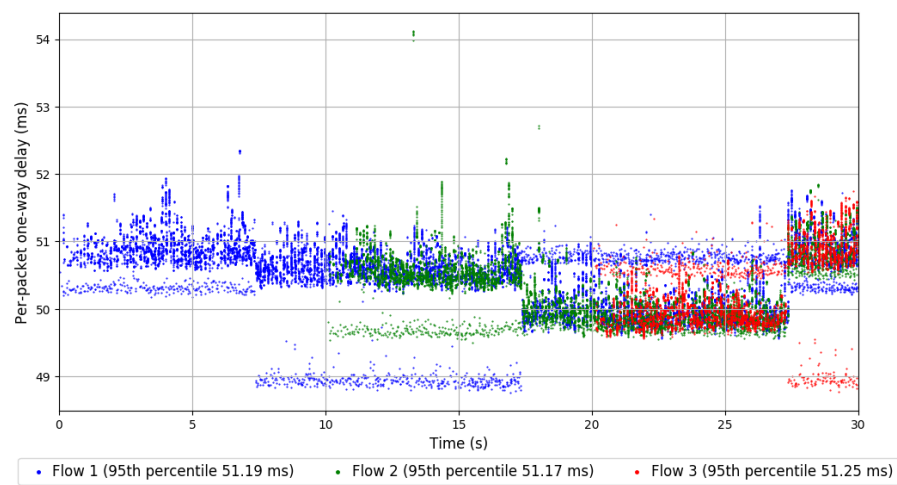
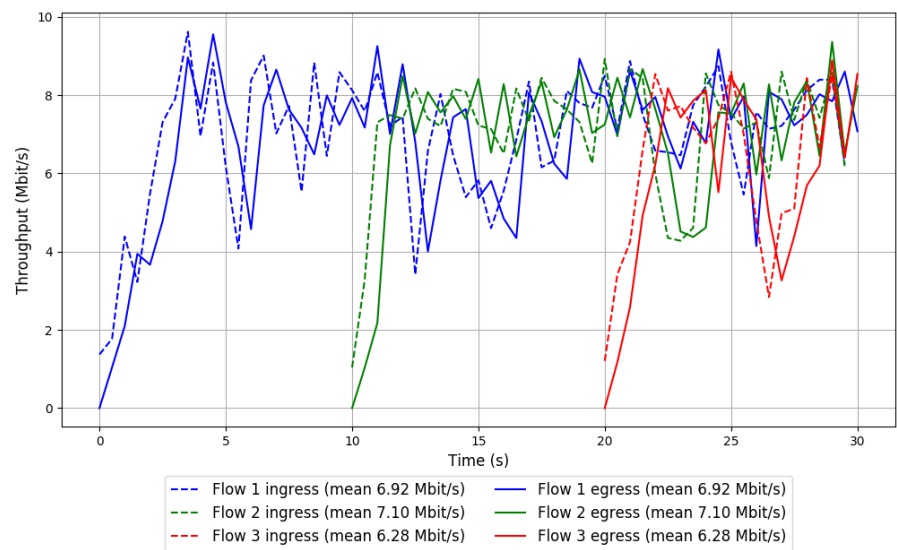
Run 3: Statistics of Sprout

Start at: 2018-07-01 17:31:43  
End at: 2018-07-01 17:32:13  
Local clock offset: 0.109 ms  
Remote clock offset: -0.023 ms

# Below is generated by plot.py at 2018-07-01 22:20:43  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 13.72 Mbit/s  
95th percentile per-packet one-way delay: 51.197 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 6.92 Mbit/s  
95th percentile per-packet one-way delay: 51.192 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 7.10 Mbit/s  
95th percentile per-packet one-way delay: 51.171 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 6.28 Mbit/s  
95th percentile per-packet one-way delay: 51.254 ms  
Loss rate: 0.00%



Run 3: Report of Sprout — Data Link

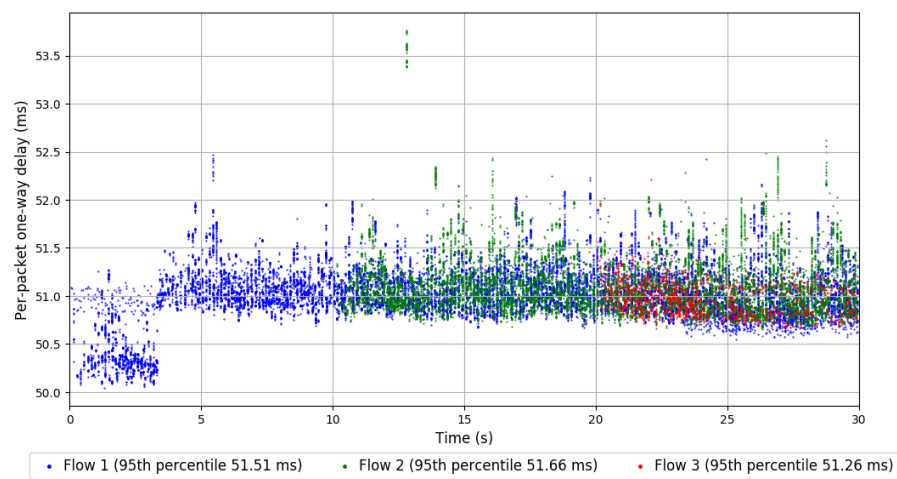
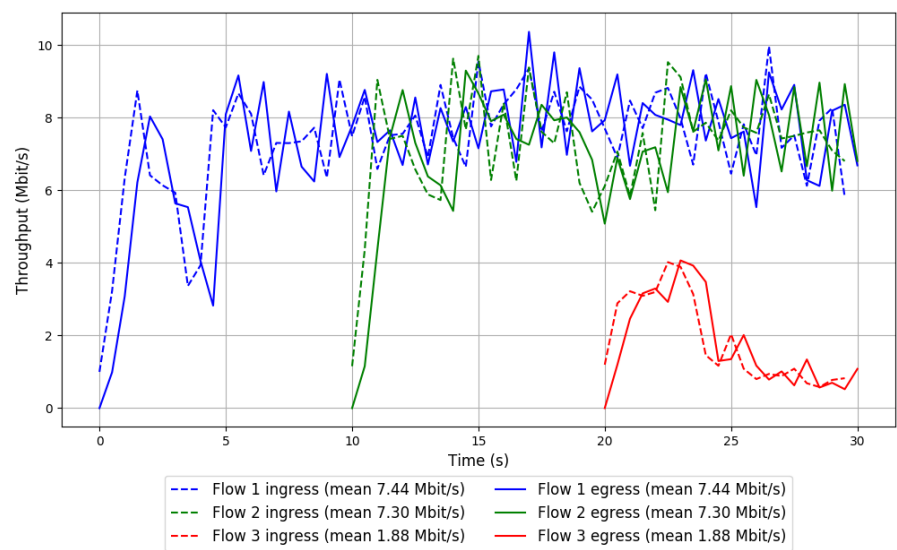


#### Run 4: Statistics of Sprout

Start at: 2018-07-01 17:55:47  
End at: 2018-07-01 17:56:17  
Local clock offset: -0.288 ms  
Remote clock offset: -0.086 ms

```
# Below is generated by plot.py at 2018-07-01 22:20:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.91 Mbit/s
95th percentile per-packet one-way delay: 51.563 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.44 Mbit/s
95th percentile per-packet one-way delay: 51.514 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 7.30 Mbit/s
95th percentile per-packet one-way delay: 51.659 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 1.88 Mbit/s
95th percentile per-packet one-way delay: 51.259 ms
Loss rate: 0.00%
```

Run 4: Report of Sprout — Data Link

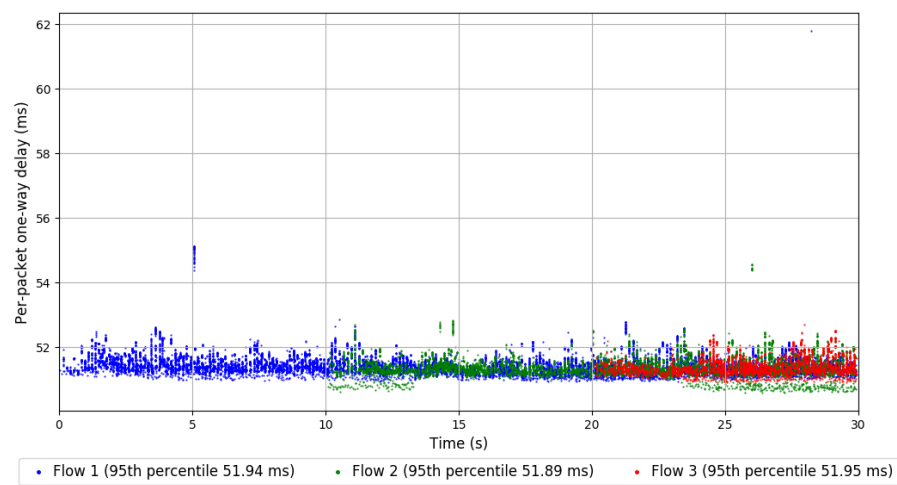
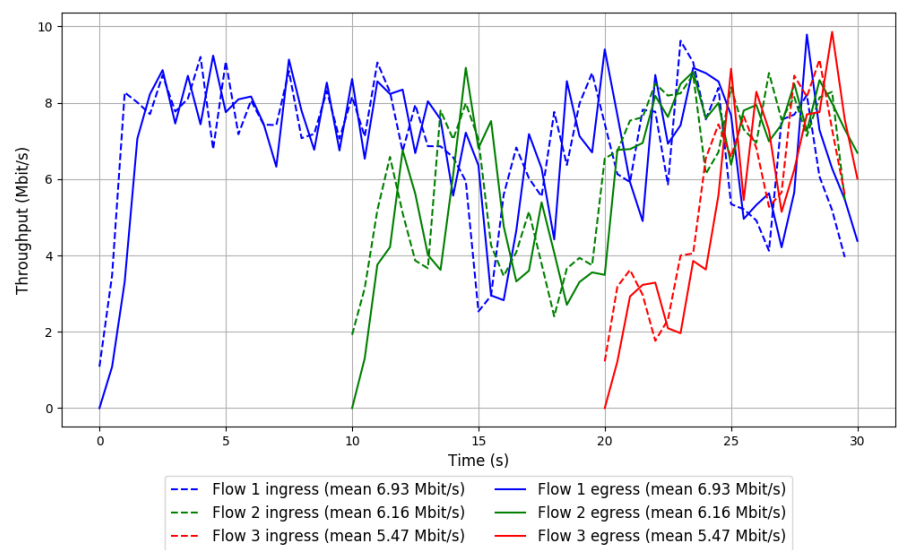


Run 5: Statistics of Sprout

Start at: 2018-07-01 18:19:47  
End at: 2018-07-01 18:20:17  
Local clock offset: -0.302 ms  
Remote clock offset: -0.137 ms

# Below is generated by plot.py at 2018-07-01 22:20:43  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 12.83 Mbit/s  
95th percentile per-packet one-way delay: 51.927 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 6.93 Mbit/s  
95th percentile per-packet one-way delay: 51.941 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 6.16 Mbit/s  
95th percentile per-packet one-way delay: 51.892 ms  
Loss rate: 0.01%  
-- Flow 3:  
Average throughput: 5.47 Mbit/s  
95th percentile per-packet one-way delay: 51.953 ms  
Loss rate: 0.00%

Run 5: Report of Sprout — Data Link

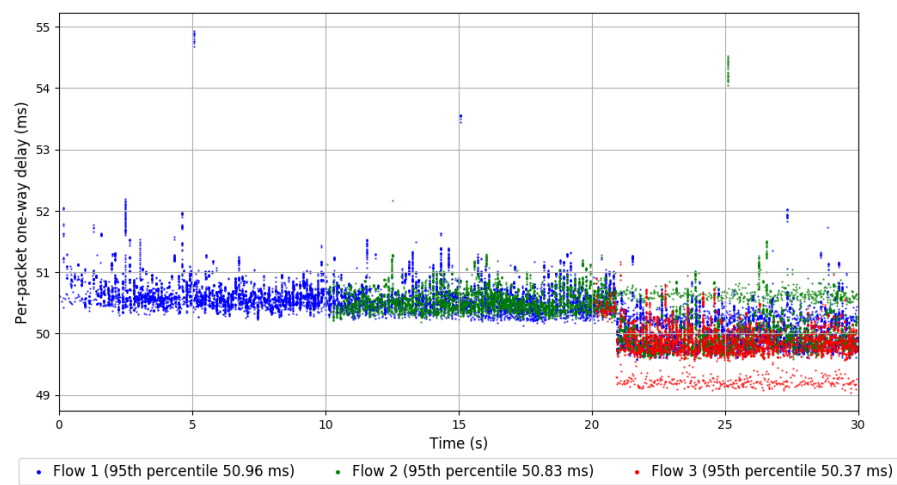
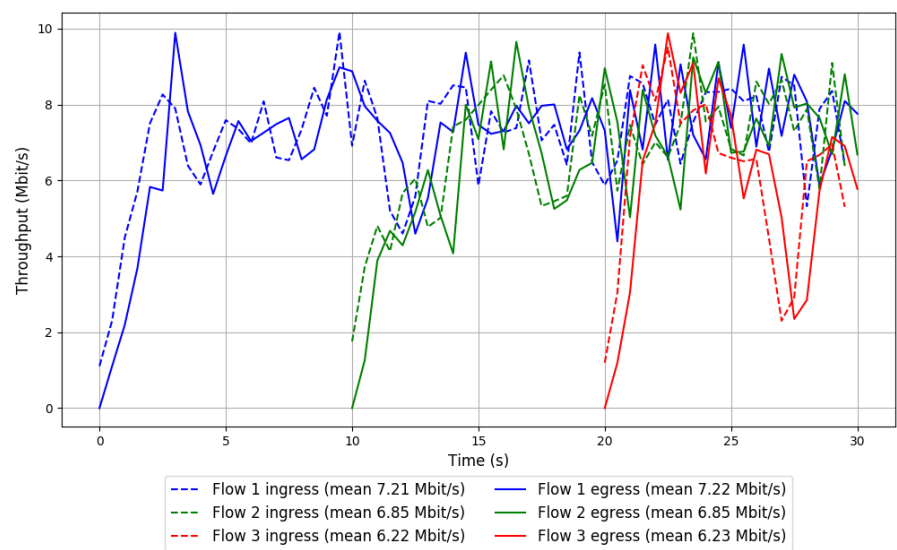


Run 6: Statistics of Sprout

Start at: 2018-07-01 18:43:49  
End at: 2018-07-01 18:44:19  
Local clock offset: 0.015 ms  
Remote clock offset: -0.029 ms

# Below is generated by plot.py at 2018-07-01 22:20:43  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 13.82 Mbit/s  
95th percentile per-packet one-way delay: 50.883 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 7.22 Mbit/s  
95th percentile per-packet one-way delay: 50.964 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 6.85 Mbit/s  
95th percentile per-packet one-way delay: 50.828 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 6.23 Mbit/s  
95th percentile per-packet one-way delay: 50.371 ms  
Loss rate: 0.00%

Run 6: Report of Sprout — Data Link



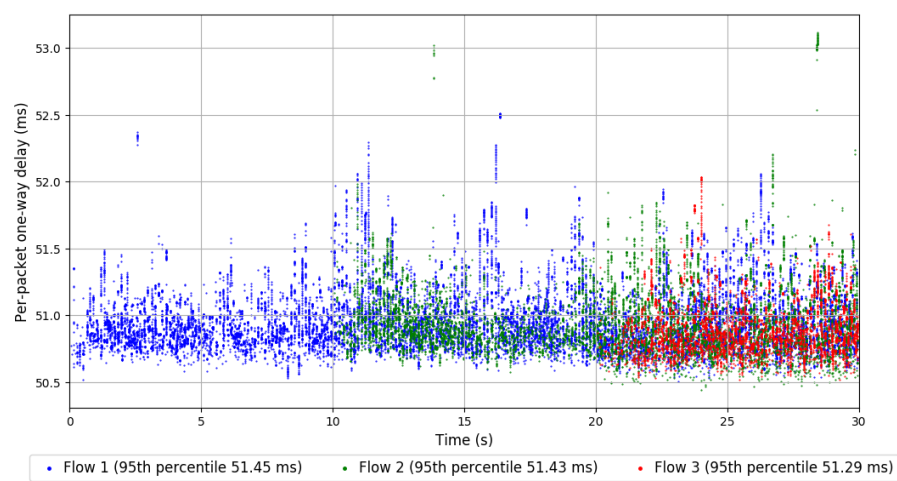
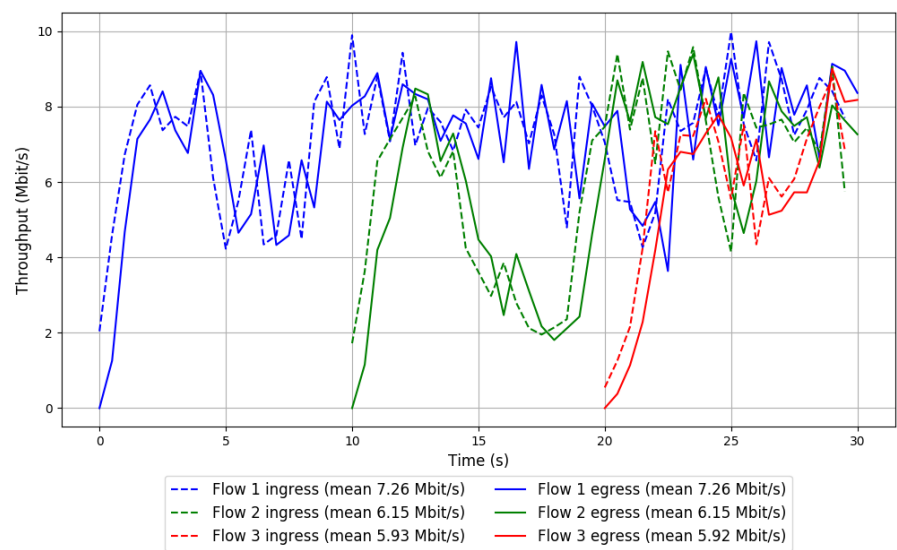
Run 7: Statistics of Sprout

Start at: 2018-07-01 19:07:50  
End at: 2018-07-01 19:08:20  
Local clock offset: 0.133 ms  
Remote clock offset: -0.106 ms

# Below is generated by plot.py at 2018-07-01 22:20:43  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 13.31 Mbit/s  
95th percentile per-packet one-way delay: 51.419 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 7.26 Mbit/s  
95th percentile per-packet one-way delay: 51.448 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 6.15 Mbit/s  
95th percentile per-packet one-way delay: 51.431 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 5.92 Mbit/s  
95th percentile per-packet one-way delay: 51.288 ms  
Loss rate: 0.14%



Run 7: Report of Sprout — Data Link

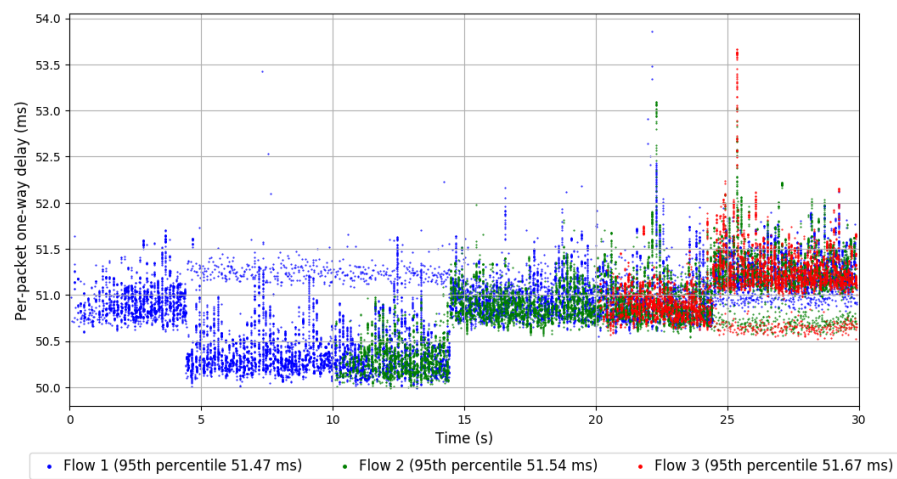
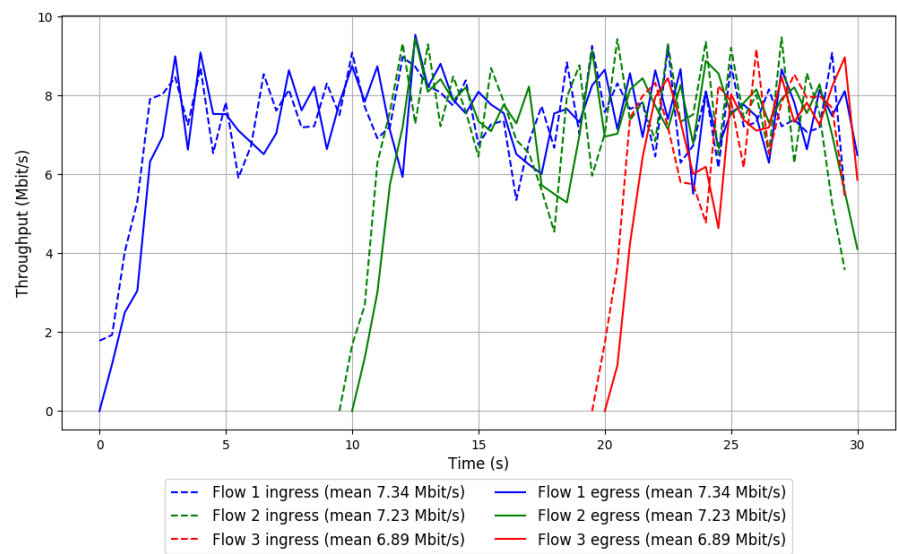


Run 8: Statistics of Sprout

Start at: 2018-07-01 19:31:56  
End at: 2018-07-01 19:32:26  
Local clock offset: -0.212 ms  
Remote clock offset: -0.058 ms

# Below is generated by plot.py at 2018-07-01 22:20:44  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 14.42 Mbit/s  
95th percentile per-packet one-way delay: 51.532 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 7.34 Mbit/s  
95th percentile per-packet one-way delay: 51.472 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 7.23 Mbit/s  
95th percentile per-packet one-way delay: 51.544 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 6.89 Mbit/s  
95th percentile per-packet one-way delay: 51.666 ms  
Loss rate: 0.00%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-07-01 19:56:16

End at: 2018-07-01 19:56:46

Local clock offset: -0.28 ms

Remote clock offset: 0.006 ms

# Below is generated by plot.py at 2018-07-01 22:20:44

# Datalink statistics

-- Total of 3 flows:

Average throughput: 13.63 Mbit/s

95th percentile per-packet one-way delay: 51.662 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 7.15 Mbit/s

95th percentile per-packet one-way delay: 51.665 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 7.19 Mbit/s

95th percentile per-packet one-way delay: 51.610 ms

Loss rate: 0.00%

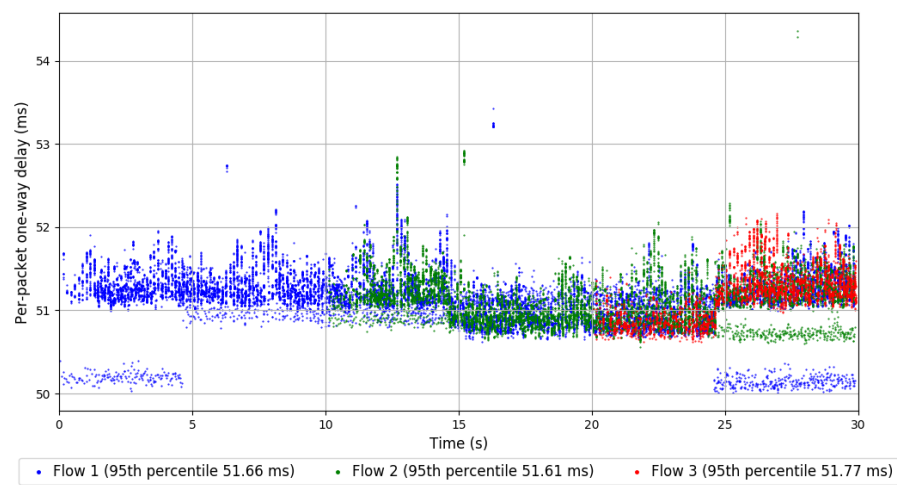
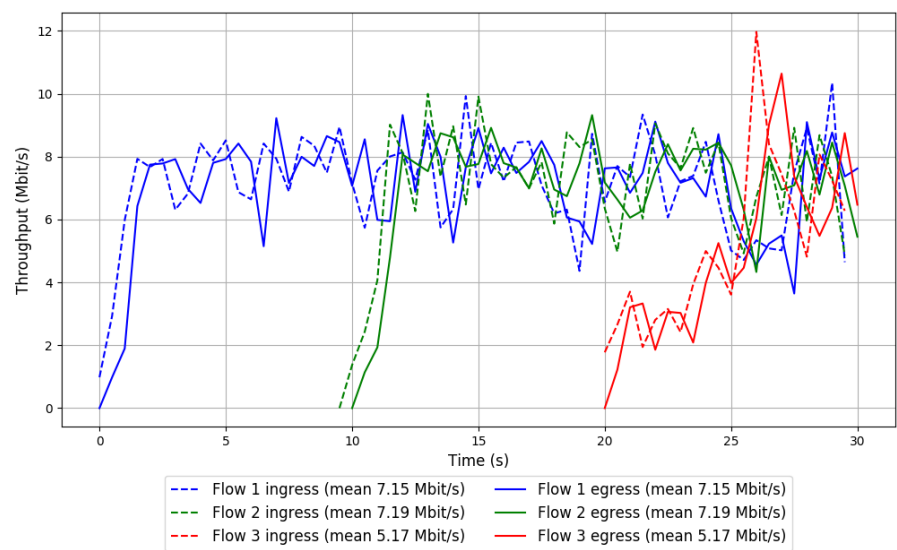
-- Flow 3:

Average throughput: 5.17 Mbit/s

95th percentile per-packet one-way delay: 51.767 ms

Loss rate: 0.00%

Run 9: Report of Sprout — Data Link

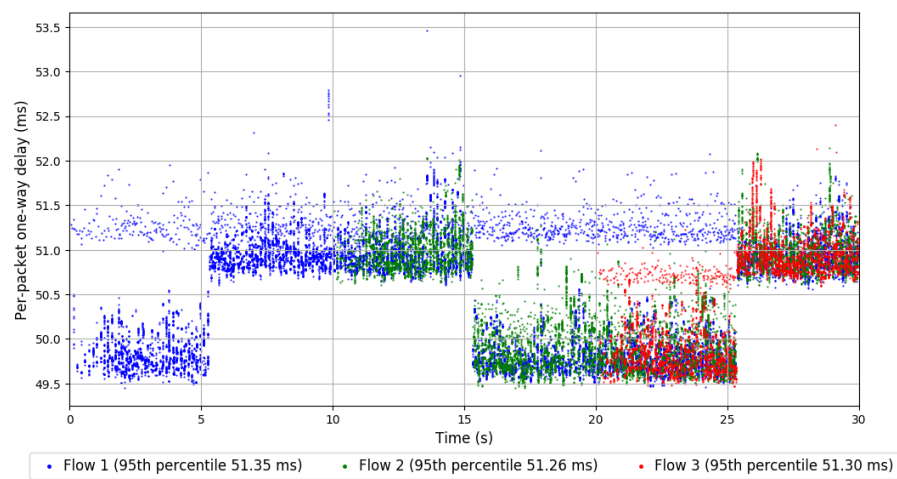
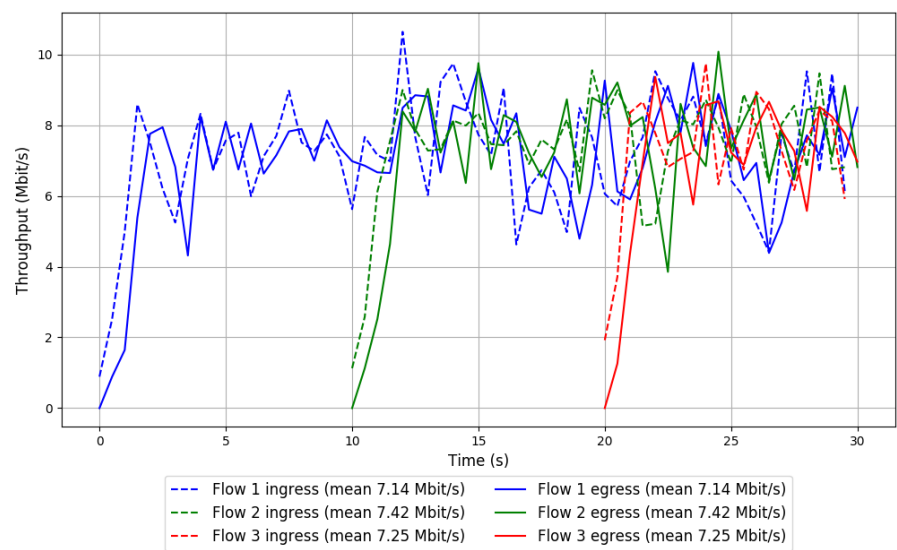


Run 10: Statistics of Sprout

Start at: 2018-07-01 20:20:35  
End at: 2018-07-01 20:21:05  
Local clock offset: -0.226 ms  
Remote clock offset: -0.017 ms

# Below is generated by plot.py at 2018-07-01 22:20:44  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 14.46 Mbit/s  
95th percentile per-packet one-way delay: 51.309 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 7.14 Mbit/s  
95th percentile per-packet one-way delay: 51.346 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 7.42 Mbit/s  
95th percentile per-packet one-way delay: 51.263 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 7.25 Mbit/s  
95th percentile per-packet one-way delay: 51.295 ms  
Loss rate: 0.00%

Run 10: Report of Sprout — Data Link



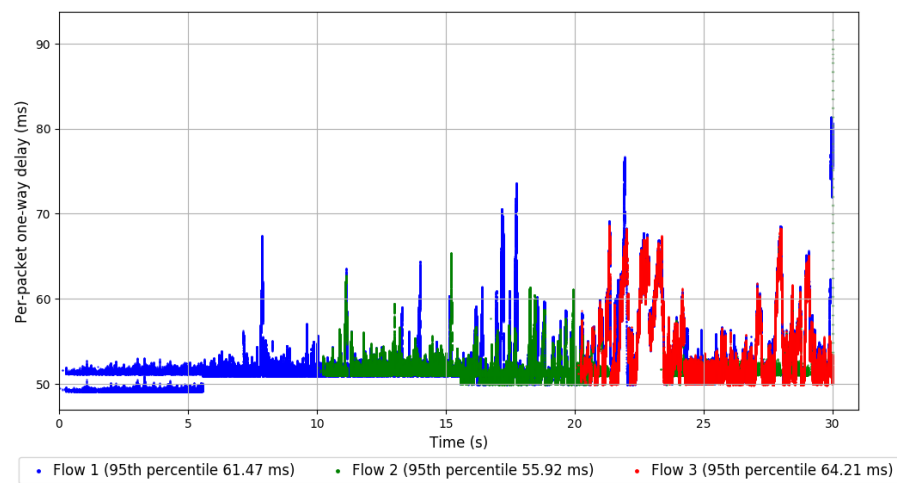
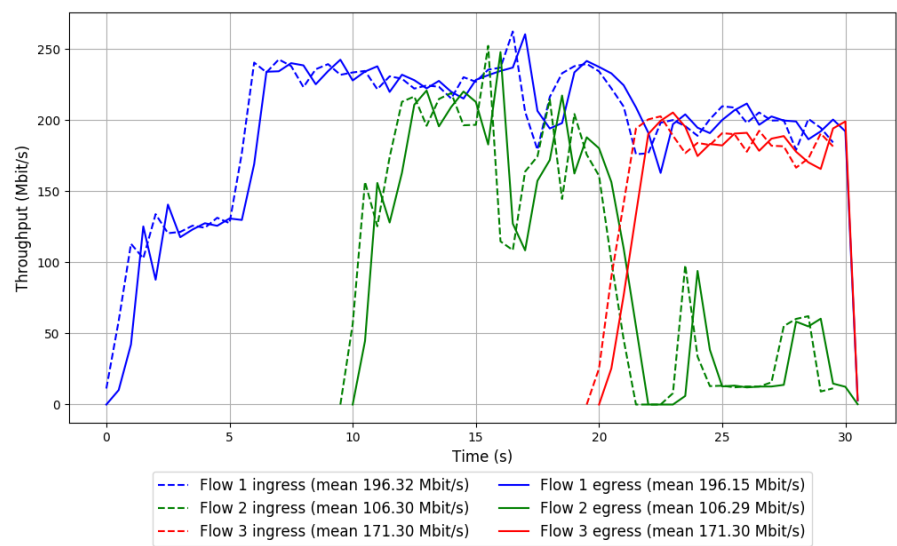
Run 1: Statistics of TaoVA-100x

Start at: 2018-07-01 16:33:05  
End at: 2018-07-01 16:33:35  
Local clock offset: -0.328 ms  
Remote clock offset: -0.022 ms

# Below is generated by plot.py at 2018-07-01 22:24:57  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 324.00 Mbit/s  
95th percentile per-packet one-way delay: 61.812 ms  
Loss rate: 0.05%  
-- Flow 1:  
Average throughput: 196.15 Mbit/s  
95th percentile per-packet one-way delay: 61.474 ms  
Loss rate: 0.08%  
-- Flow 2:  
Average throughput: 106.29 Mbit/s  
95th percentile per-packet one-way delay: 55.916 ms  
Loss rate: 0.01%  
-- Flow 3:  
Average throughput: 171.30 Mbit/s  
95th percentile per-packet one-way delay: 64.210 ms  
Loss rate: 0.01%



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



Run 2: Statistics of TaoVA-100x

Start at: 2018-07-01 16:57:11

End at: 2018-07-01 16:57:41

Local clock offset: -0.263 ms

Remote clock offset: 0.004 ms

# Below is generated by plot.py at 2018-07-01 22:25:01

# Datalink statistics

-- Total of 3 flows:

Average throughput: 323.37 Mbit/s

95th percentile per-packet one-way delay: 59.788 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 189.73 Mbit/s

95th percentile per-packet one-way delay: 56.998 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 188.50 Mbit/s

95th percentile per-packet one-way delay: 65.207 ms

Loss rate: 0.00%

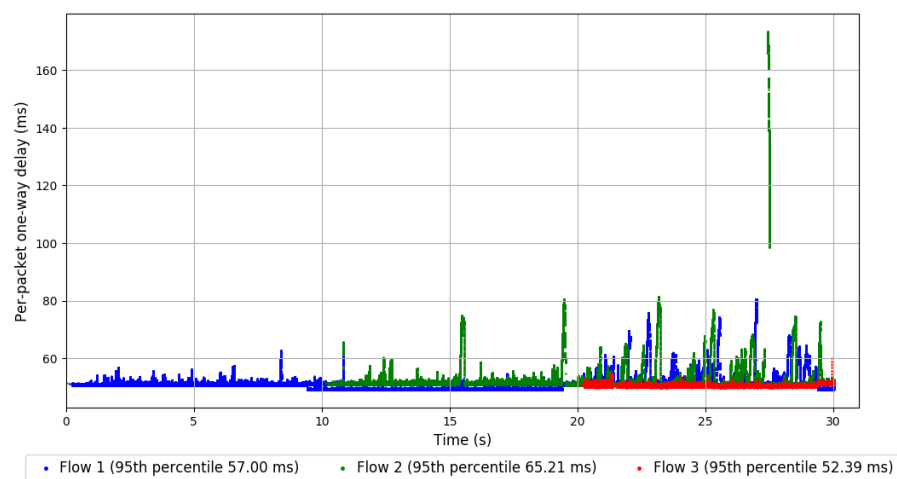
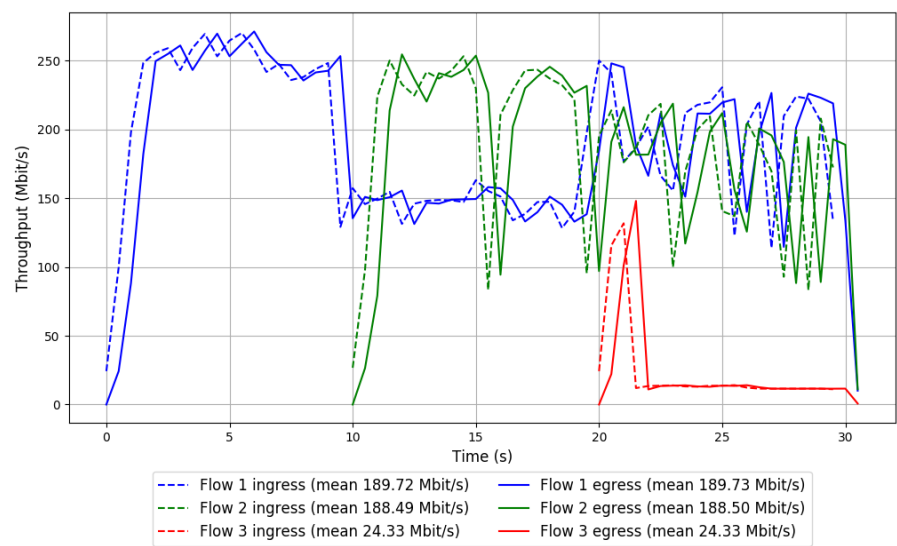
-- Flow 3:

Average throughput: 24.33 Mbit/s

95th percentile per-packet one-way delay: 52.394 ms

Loss rate: 0.00%

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

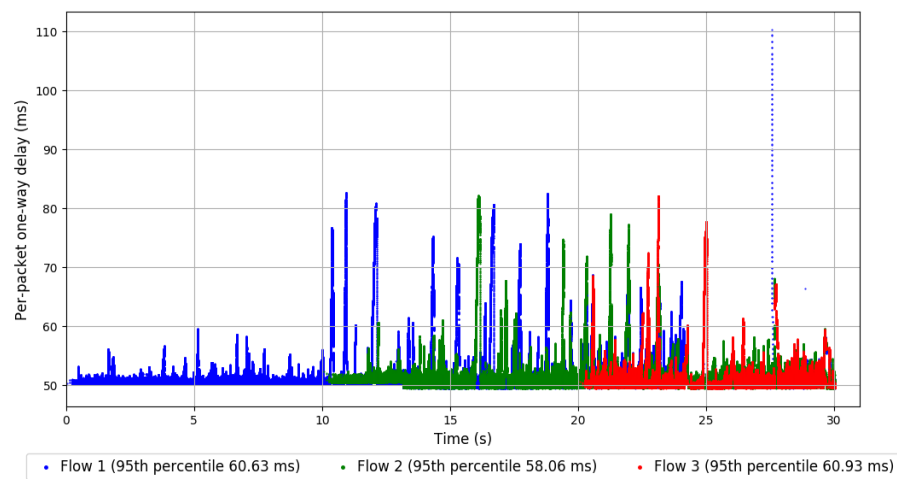
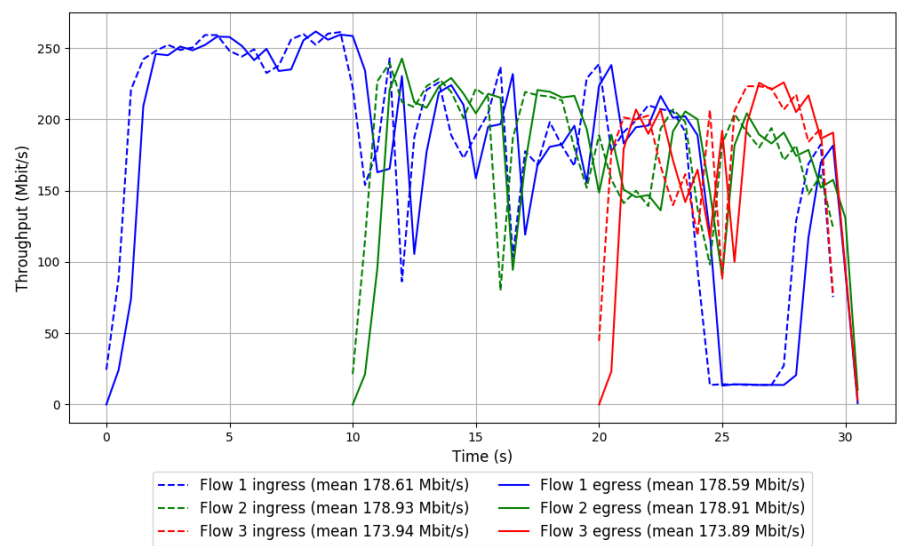


Run 3: Statistics of TaoVA-100x

Start at: 2018-07-01 17:21:27  
End at: 2018-07-01 17:21:57  
Local clock offset: 0.1 ms  
Remote clock offset: -0.023 ms

# Below is generated by plot.py at 2018-07-01 22:26:01  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 355.41 Mbit/s  
95th percentile per-packet one-way delay: 59.761 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 178.59 Mbit/s  
95th percentile per-packet one-way delay: 60.627 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 178.91 Mbit/s  
95th percentile per-packet one-way delay: 58.060 ms  
Loss rate: 0.02%  
-- Flow 3:  
Average throughput: 173.89 Mbit/s  
95th percentile per-packet one-way delay: 60.932 ms  
Loss rate: 0.03%

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

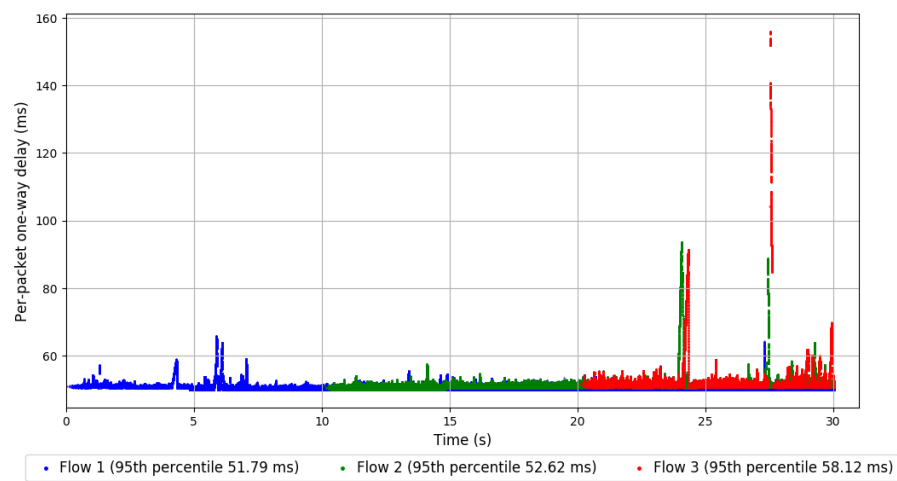
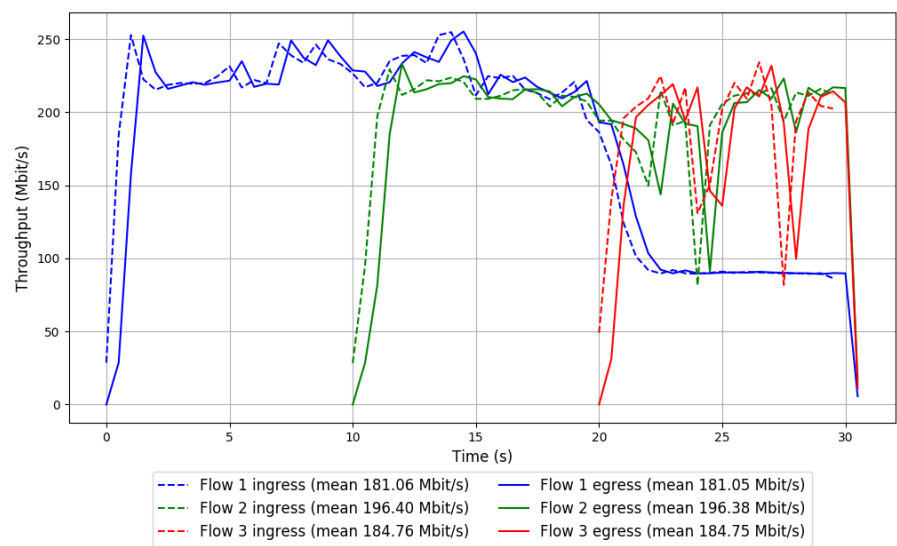


Run 4: Statistics of TaoVA-100x

Start at: 2018-07-01 17:45:25  
End at: 2018-07-01 17:45:55  
Local clock offset: -0.249 ms  
Remote clock offset: -0.029 ms

# Below is generated by plot.py at 2018-07-01 22:26:46  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 373.25 Mbit/s  
95th percentile per-packet one-way delay: 52.941 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 181.05 Mbit/s  
95th percentile per-packet one-way delay: 51.794 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 196.38 Mbit/s  
95th percentile per-packet one-way delay: 52.623 ms  
Loss rate: 0.01%  
-- Flow 3:  
Average throughput: 184.75 Mbit/s  
95th percentile per-packet one-way delay: 58.125 ms  
Loss rate: 0.01%

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



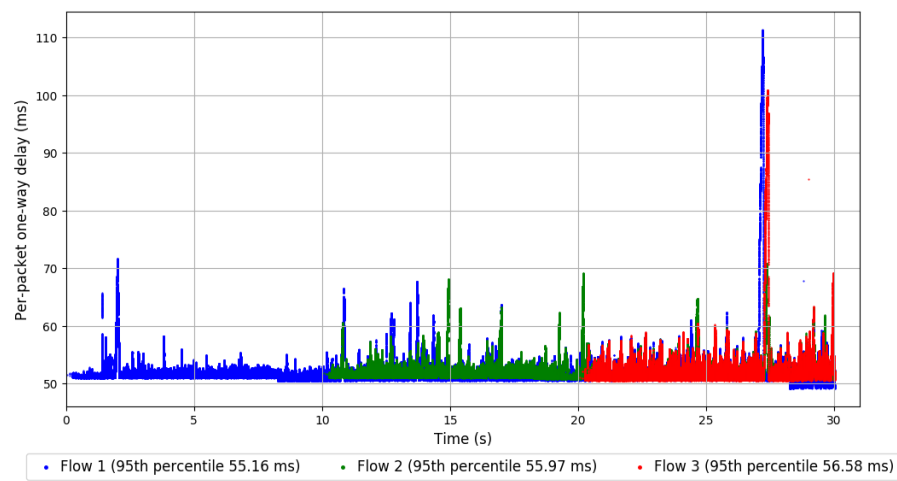
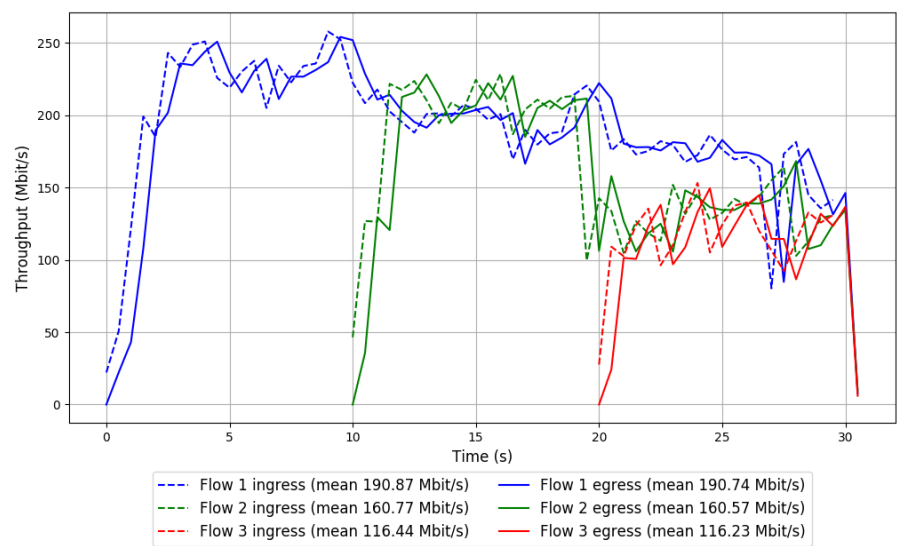
Run 5: Statistics of TaoVA-100x

Start at: 2018-07-01 18:09:32  
End at: 2018-07-01 18:10:02  
Local clock offset: -0.325 ms  
Remote clock offset: -0.163 ms

# Below is generated by plot.py at 2018-07-01 22:26:46  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 336.31 Mbit/s  
95th percentile per-packet one-way delay: 55.590 ms  
Loss rate: 0.10%  
-- Flow 1:  
Average throughput: 190.74 Mbit/s  
95th percentile per-packet one-way delay: 55.159 ms  
Loss rate: 0.07%  
-- Flow 2:  
Average throughput: 160.57 Mbit/s  
95th percentile per-packet one-way delay: 55.972 ms  
Loss rate: 0.12%  
-- Flow 3:  
Average throughput: 116.23 Mbit/s  
95th percentile per-packet one-way delay: 56.576 ms  
Loss rate: 0.18%



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

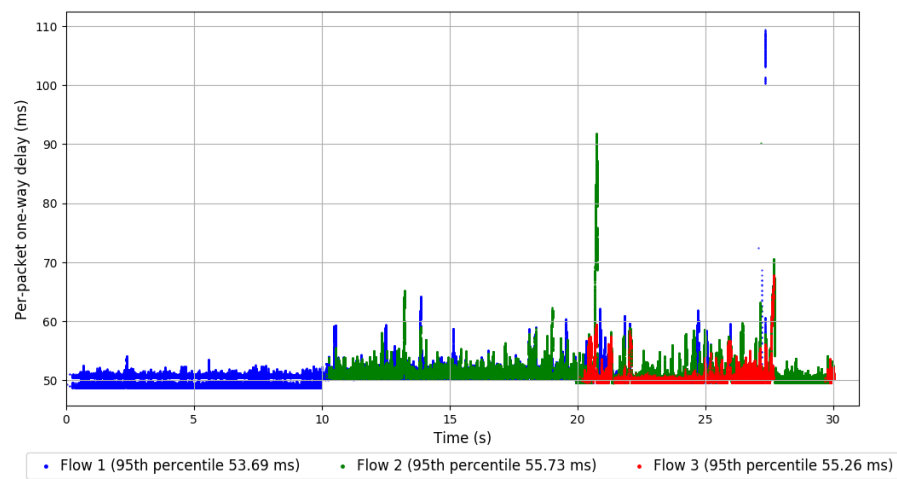
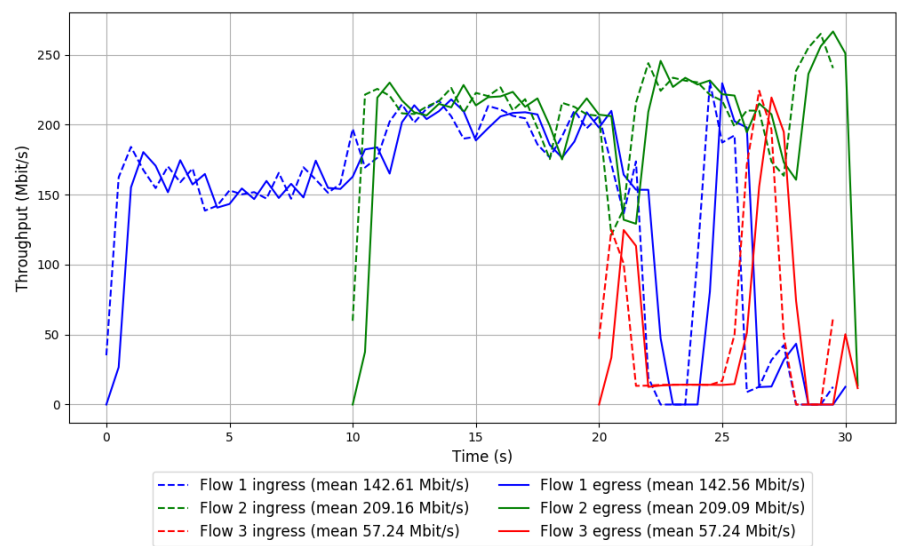


Run 6: Statistics of TaoVA-100x

Start at: 2018-07-01 18:33:30  
End at: 2018-07-01 18:34:00  
Local clock offset: 0.026 ms  
Remote clock offset: -0.093 ms

# Below is generated by plot.py at 2018-07-01 22:28:01  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 300.73 Mbit/s  
95th percentile per-packet one-way delay: 54.923 ms  
Loss rate: 0.03%  
-- Flow 1:  
Average throughput: 142.56 Mbit/s  
95th percentile per-packet one-way delay: 53.692 ms  
Loss rate: 0.03%  
-- Flow 2:  
Average throughput: 209.09 Mbit/s  
95th percentile per-packet one-way delay: 55.729 ms  
Loss rate: 0.03%  
-- Flow 3:  
Average throughput: 57.24 Mbit/s  
95th percentile per-packet one-way delay: 55.260 ms  
Loss rate: 0.00%

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

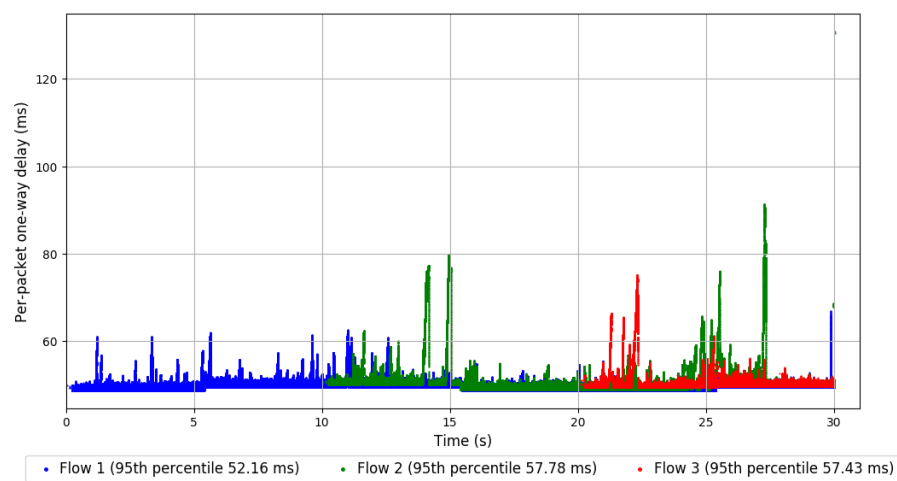
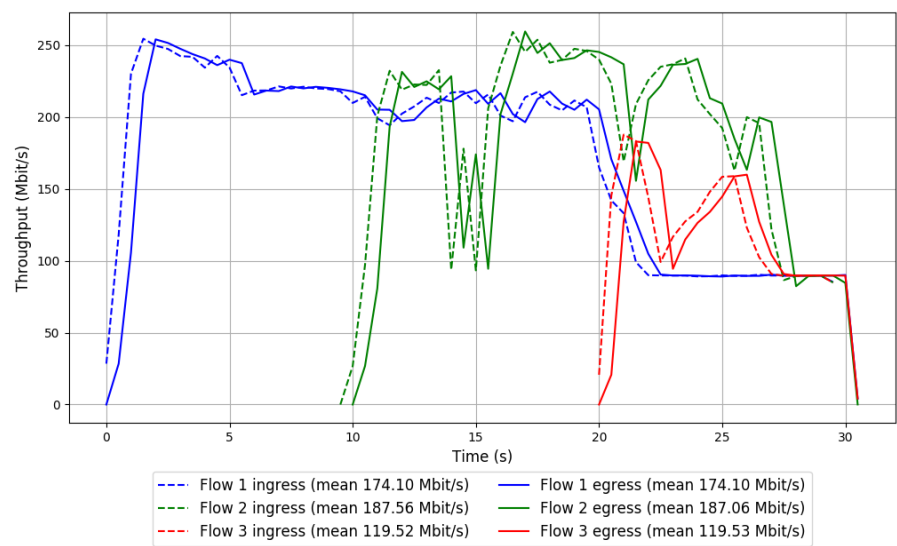


Run 7: Statistics of TaoVA-100x

Start at: 2018-07-01 18:57:35  
End at: 2018-07-01 18:58:05  
Local clock offset: 0.039 ms  
Remote clock offset: -0.069 ms

# Below is generated by plot.py at 2018-07-01 22:31:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 338.43 Mbit/s  
95th percentile per-packet one-way delay: 54.589 ms  
Loss rate: 0.05%  
-- Flow 1:  
Average throughput: 174.10 Mbit/s  
95th percentile per-packet one-way delay: 52.155 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 187.06 Mbit/s  
95th percentile per-packet one-way delay: 57.777 ms  
Loss rate: 0.12%  
-- Flow 3:  
Average throughput: 119.53 Mbit/s  
95th percentile per-packet one-way delay: 57.427 ms  
Loss rate: 0.00%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-07-01 19:21:32

End at: 2018-07-01 19:22:02

Local clock offset: 0.182 ms

Remote clock offset: -0.09 ms

# Below is generated by plot.py at 2018-07-01 22:32:05

# Datalink statistics

-- Total of 3 flows:

Average throughput: 338.12 Mbit/s

95th percentile per-packet one-way delay: 54.982 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 208.36 Mbit/s

95th percentile per-packet one-way delay: 54.373 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 141.59 Mbit/s

95th percentile per-packet one-way delay: 56.291 ms

Loss rate: 0.02%

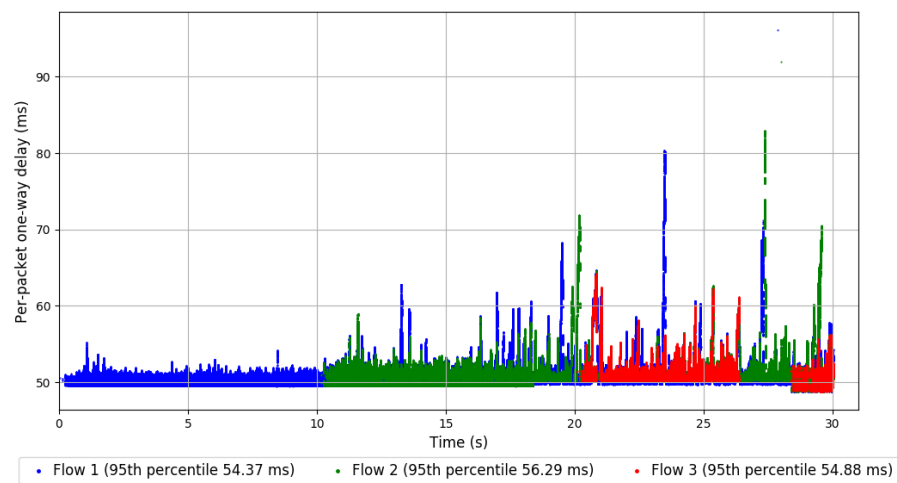
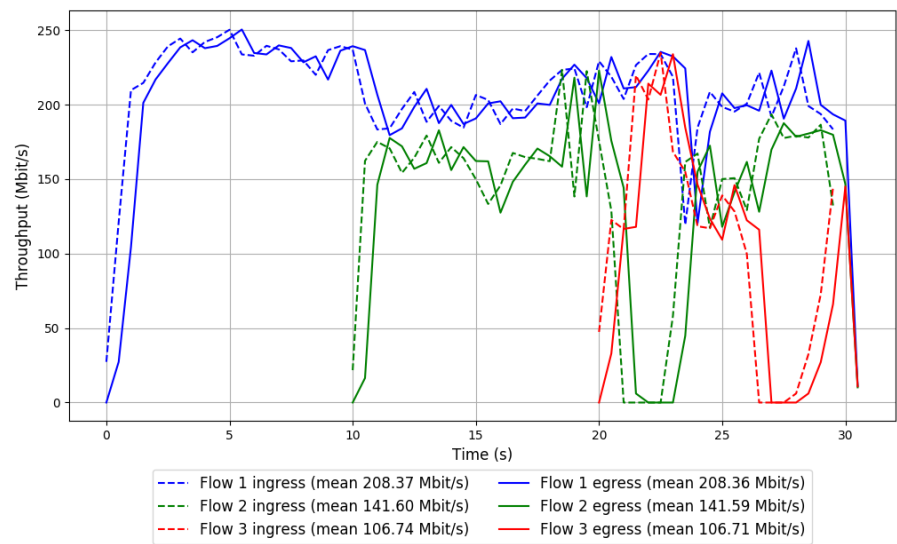
-- Flow 3:

Average throughput: 106.71 Mbit/s

95th percentile per-packet one-way delay: 54.883 ms

Loss rate: 0.03%

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



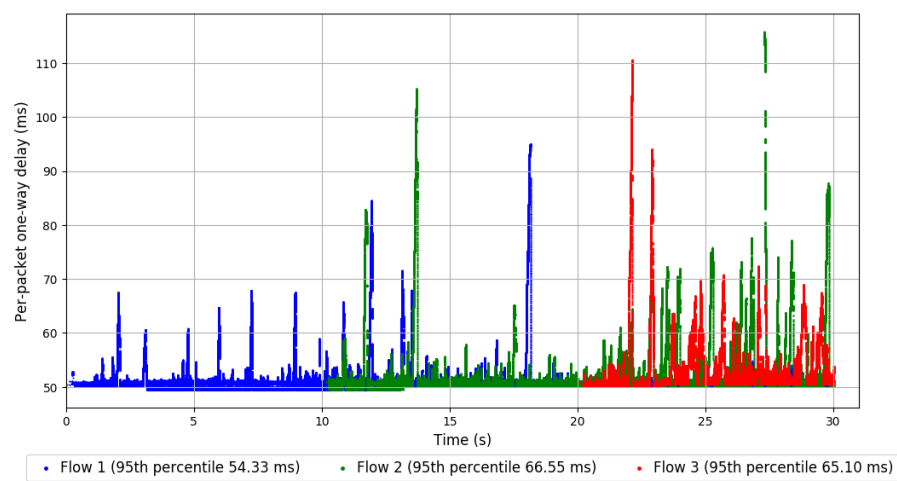
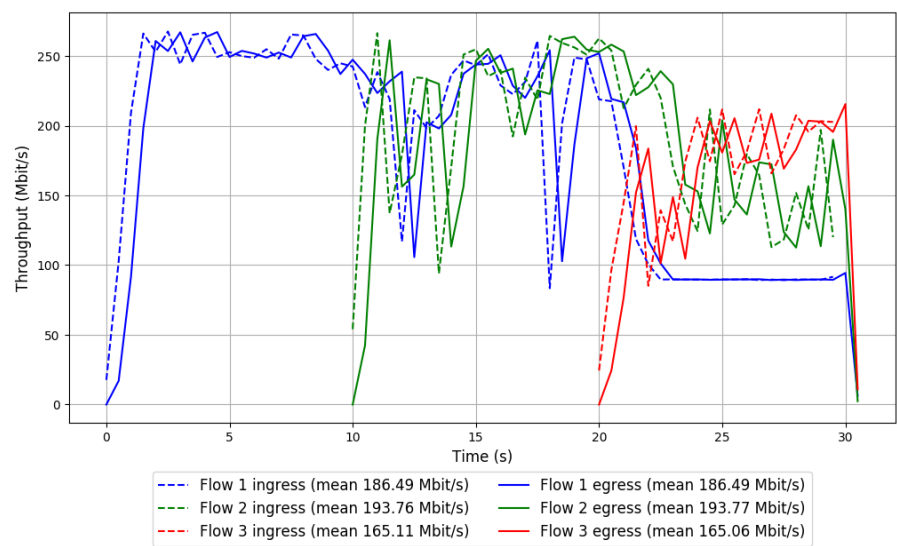
Run 9: Statistics of TaoVA-100x

Start at: 2018-07-01 19:45:47  
End at: 2018-07-01 19:46:17  
Local clock offset: 0.134 ms  
Remote clock offset: -0.015 ms

# Below is generated by plot.py at 2018-07-01 22:36:40  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 370.41 Mbit/s  
95th percentile per-packet one-way delay: 61.726 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 186.49 Mbit/s  
95th percentile per-packet one-way delay: 54.329 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 193.77 Mbit/s  
95th percentile per-packet one-way delay: 66.553 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 165.06 Mbit/s  
95th percentile per-packet one-way delay: 65.098 ms  
Loss rate: 0.03%



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



Run 10: Statistics of TaoVA-100x

Start at: 2018-07-01 20:10:05

End at: 2018-07-01 20:10:35

Local clock offset: -0.194 ms

Remote clock offset: 0.059 ms

# Below is generated by plot.py at 2018-07-01 22:37:20

# Datalink statistics

-- Total of 3 flows:

Average throughput: 390.93 Mbit/s

95th percentile per-packet one-way delay: 56.435 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 204.10 Mbit/s

95th percentile per-packet one-way delay: 56.547 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 189.02 Mbit/s

95th percentile per-packet one-way delay: 57.502 ms

Loss rate: 0.02%

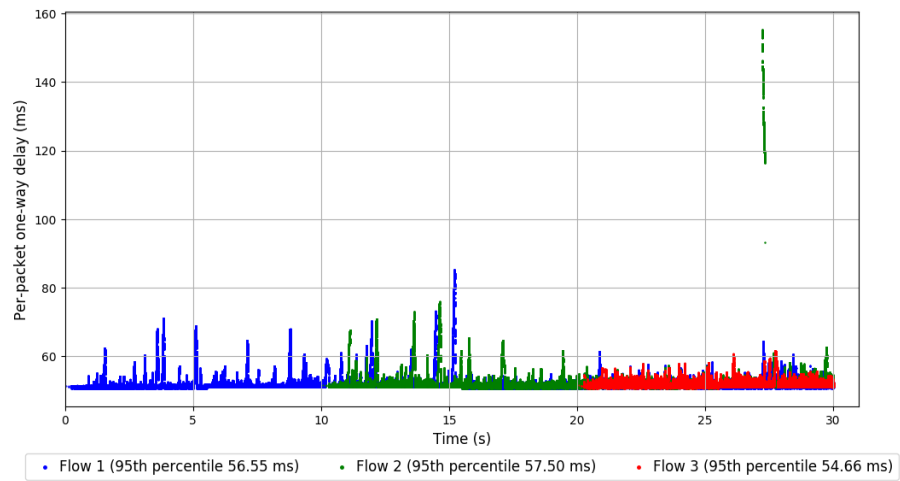
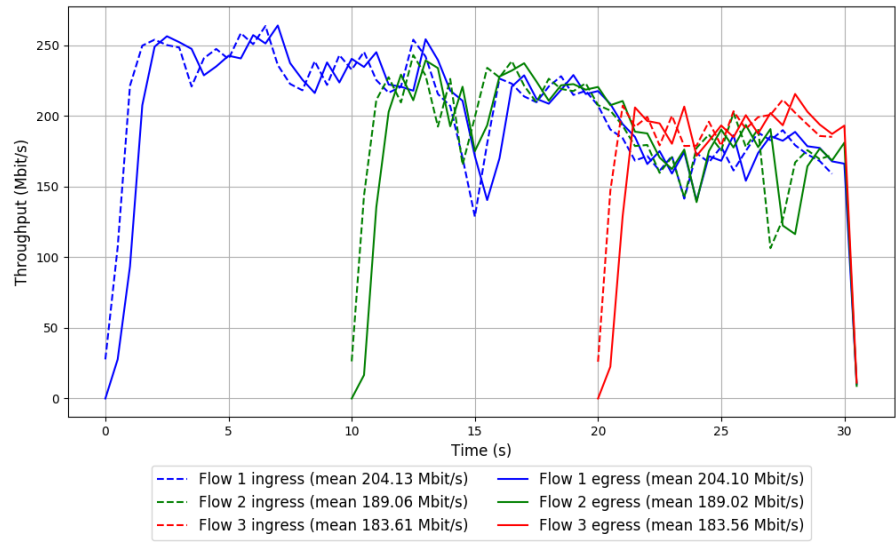
-- Flow 3:

Average throughput: 183.56 Mbit/s

95th percentile per-packet one-way delay: 54.664 ms

Loss rate: 0.03%

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

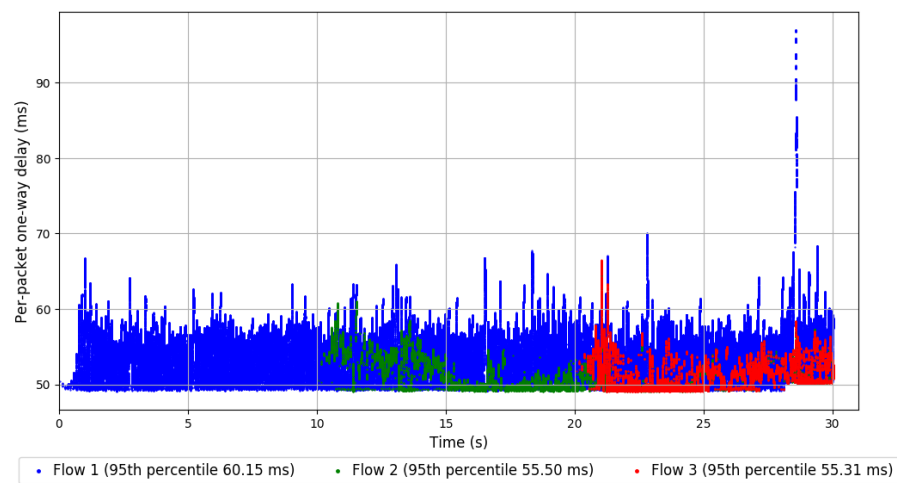
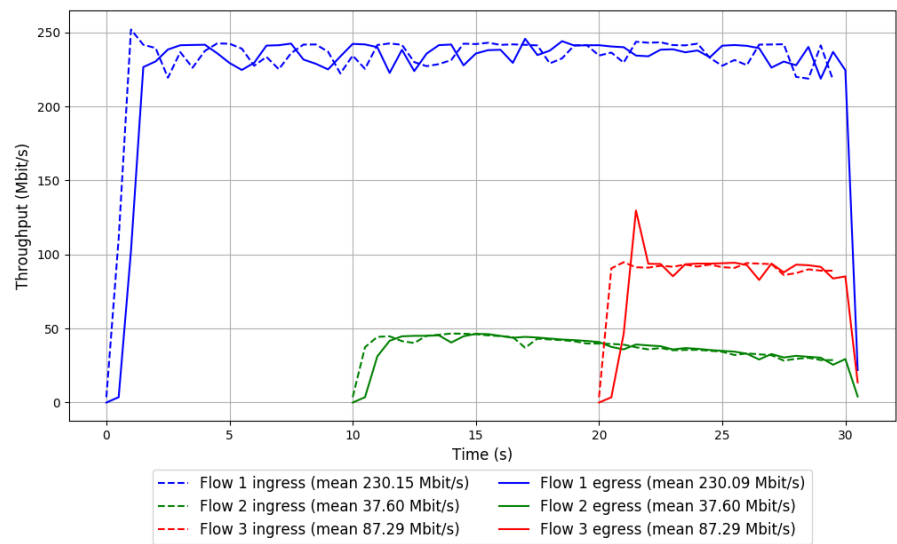


Run 1: Statistics of TCP Vegas

Start at: 2018-07-01 16:40:52  
End at: 2018-07-01 16:41:22  
Local clock offset: 0.444 ms  
Remote clock offset: -0.056 ms

# Below is generated by plot.py at 2018-07-01 22:37:20  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 284.07 Mbit/s  
95th percentile per-packet one-way delay: 59.626 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 230.09 Mbit/s  
95th percentile per-packet one-way delay: 60.153 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 37.60 Mbit/s  
95th percentile per-packet one-way delay: 55.499 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 87.29 Mbit/s  
95th percentile per-packet one-way delay: 55.307 ms  
Loss rate: 0.00%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-07-01 17:05:06

End at: 2018-07-01 17:05:36

Local clock offset: 0.09 ms

Remote clock offset: 0.029 ms

# Below is generated by plot.py at 2018-07-01 22:37:20

# Datalink statistics

-- Total of 3 flows:

Average throughput: 267.78 Mbit/s

95th percentile per-packet one-way delay: 63.139 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 78.87 Mbit/s

95th percentile per-packet one-way delay: 58.042 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 175.46 Mbit/s

95th percentile per-packet one-way delay: 63.325 ms

Loss rate: 0.00%

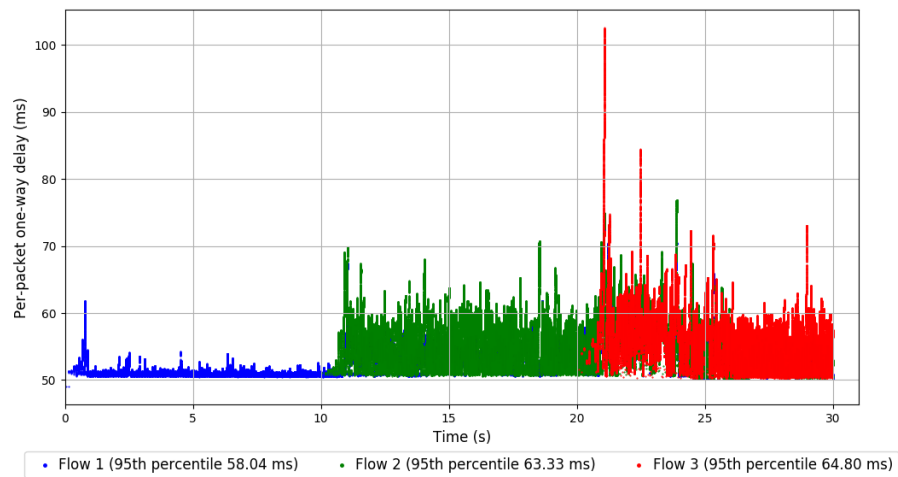
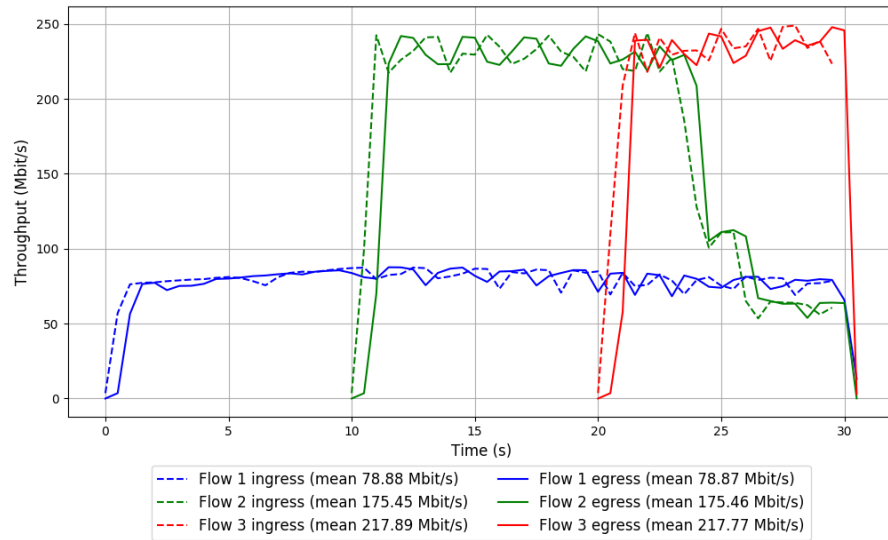
-- Flow 3:

Average throughput: 217.77 Mbit/s

95th percentile per-packet one-way delay: 64.797 ms

Loss rate: 0.00%

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



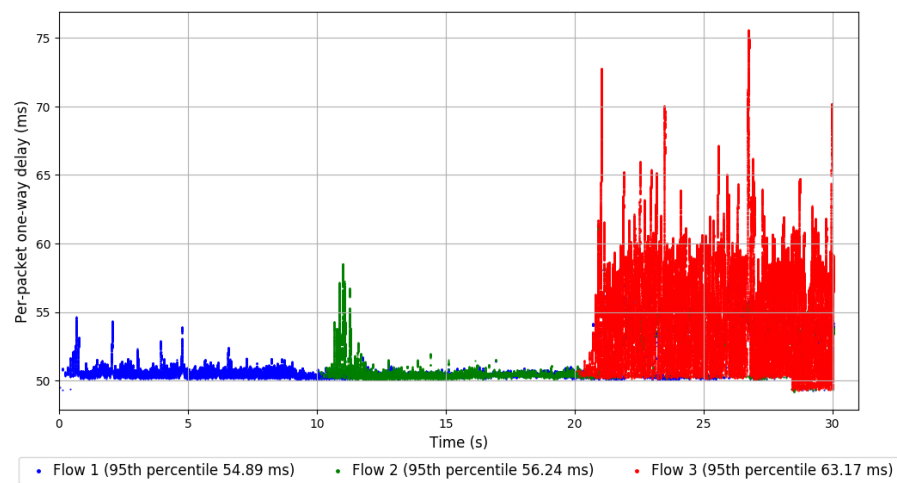
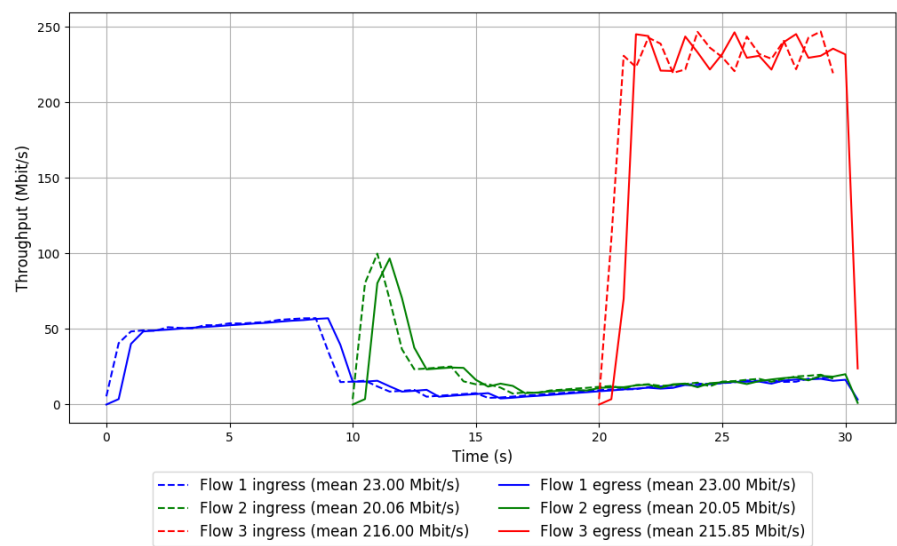
Run 3: Statistics of TCP Vegas

Start at: 2018-07-01 17:29:22  
End at: 2018-07-01 17:29:52  
Local clock offset: 0.502 ms  
Remote clock offset: -0.037 ms

# Below is generated by plot.py at 2018-07-01 22:37:20  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 108.04 Mbit/s  
95th percentile per-packet one-way delay: 61.678 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 23.00 Mbit/s  
95th percentile per-packet one-way delay: 54.887 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 20.05 Mbit/s  
95th percentile per-packet one-way delay: 56.245 ms  
Loss rate: 0.01%  
-- Flow 3:  
Average throughput: 215.85 Mbit/s  
95th percentile per-packet one-way delay: 63.168 ms  
Loss rate: 0.00%



Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-07-01 17:53:26

End at: 2018-07-01 17:53:56

Local clock offset: -0.325 ms

Remote clock offset: -0.13 ms

# Below is generated by plot.py at 2018-07-01 22:37:20

# Datalink statistics

-- Total of 3 flows:

Average throughput: 99.82 Mbit/s

95th percentile per-packet one-way delay: 61.053 ms

Loss rate: 0.24%

-- Flow 1:

Average throughput: 52.31 Mbit/s

95th percentile per-packet one-way delay: 60.542 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 29.59 Mbit/s

95th percentile per-packet one-way delay: 55.661 ms

Loss rate: 0.25%

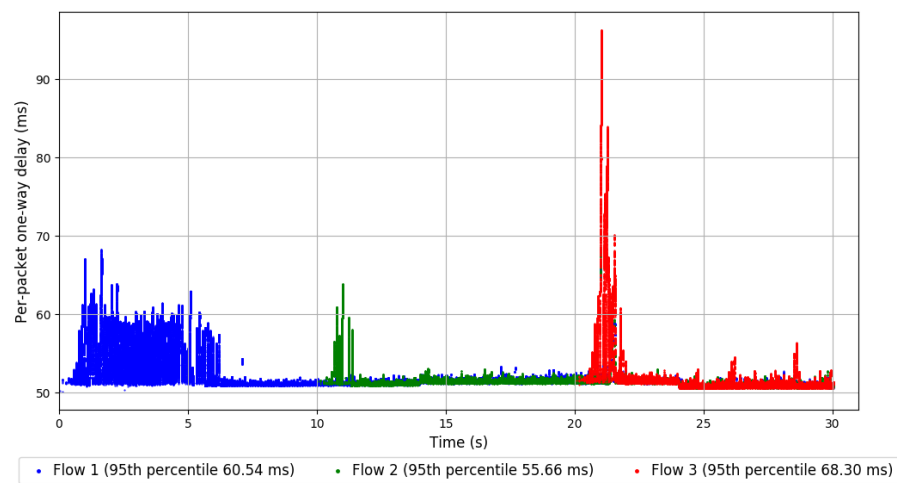
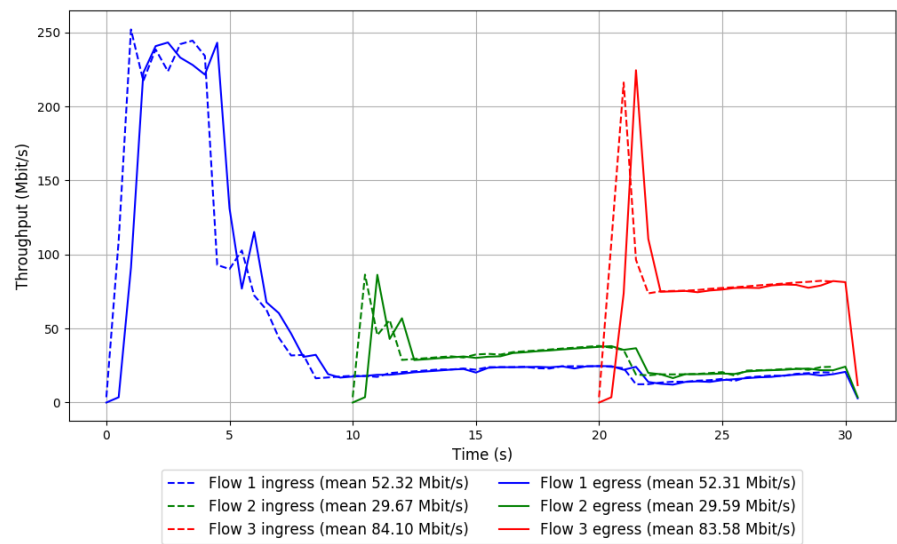
-- Flow 3:

Average throughput: 83.58 Mbit/s

95th percentile per-packet one-way delay: 68.295 ms

Loss rate: 0.62%

Run 4: Report of TCP Vegas — Data Link

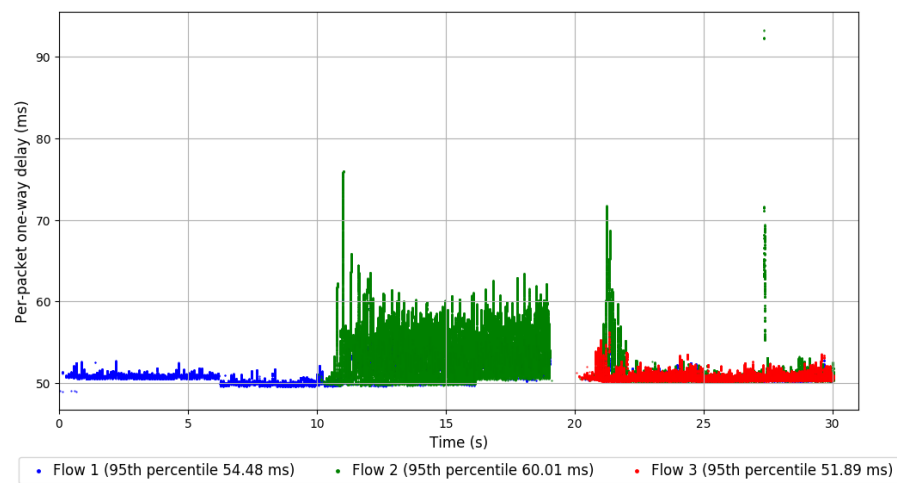
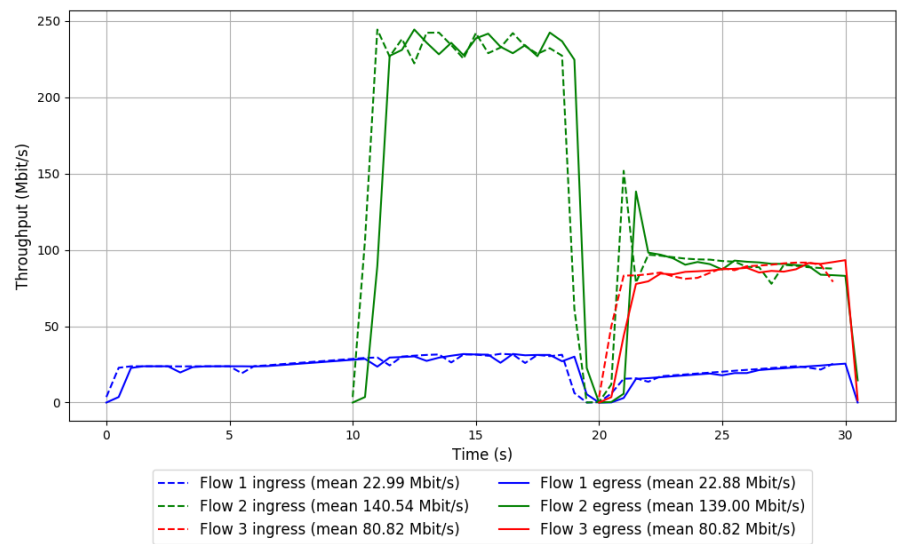


Run 5: Statistics of TCP Vegas

Start at: 2018-07-01 18:17:24  
End at: 2018-07-01 18:17:54  
Local clock offset: 0.055 ms  
Remote clock offset: -0.156 ms

# Below is generated by plot.py at 2018-07-01 22:37:20  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 142.28 Mbit/s  
95th percentile per-packet one-way delay: 59.176 ms  
Loss rate: 0.78%  
-- Flow 1:  
Average throughput: 22.88 Mbit/s  
95th percentile per-packet one-way delay: 54.478 ms  
Loss rate: 0.45%  
-- Flow 2:  
Average throughput: 139.00 Mbit/s  
95th percentile per-packet one-way delay: 60.009 ms  
Loss rate: 1.09%  
-- Flow 3:  
Average throughput: 80.82 Mbit/s  
95th percentile per-packet one-way delay: 51.886 ms  
Loss rate: 0.00%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-07-01 18:41:25

End at: 2018-07-01 18:41:55

Local clock offset: -0.332 ms

Remote clock offset: 0.002 ms

# Below is generated by plot.py at 2018-07-01 22:37:20

# Datalink statistics

-- Total of 3 flows:

Average throughput: 170.70 Mbit/s

95th percentile per-packet one-way delay: 59.572 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 49.02 Mbit/s

95th percentile per-packet one-way delay: 54.739 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 106.19 Mbit/s

95th percentile per-packet one-way delay: 57.085 ms

Loss rate: 0.04%

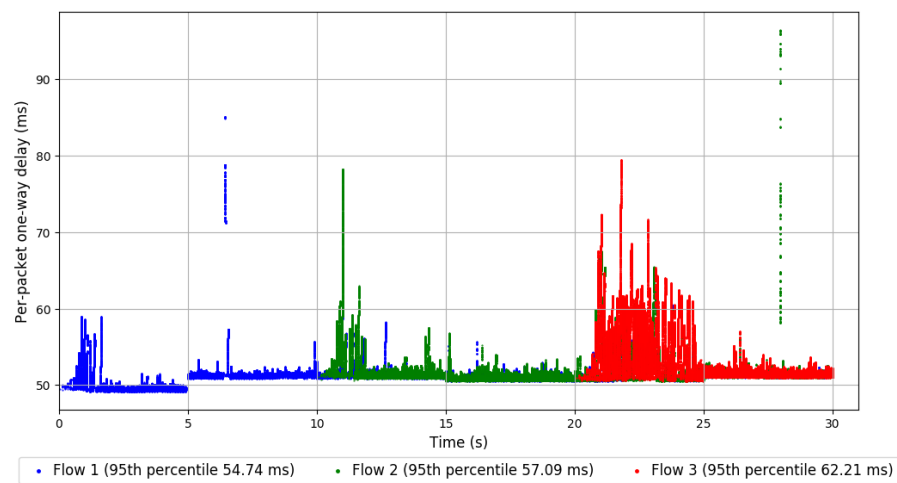
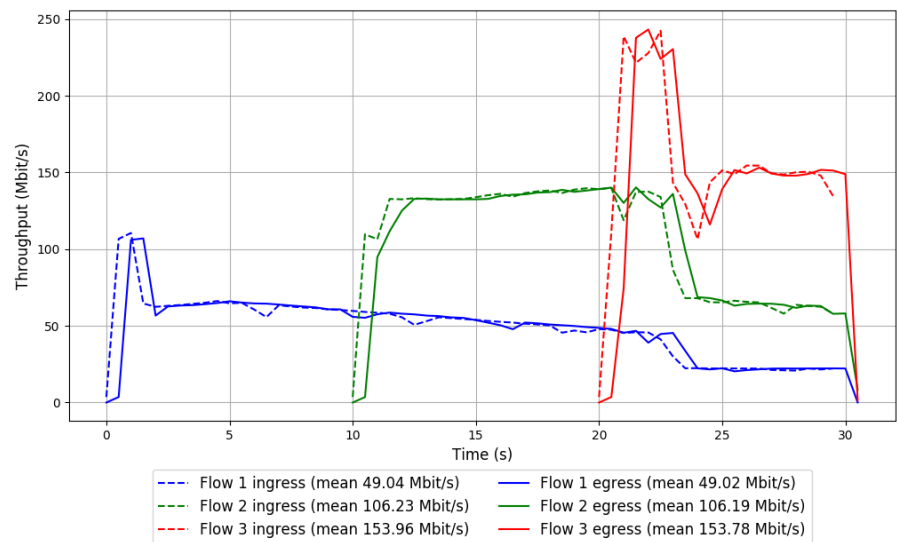
-- Flow 3:

Average throughput: 153.78 Mbit/s

95th percentile per-packet one-way delay: 62.211 ms

Loss rate: 0.10%

Run 6: Report of TCP Vegas — Data Link



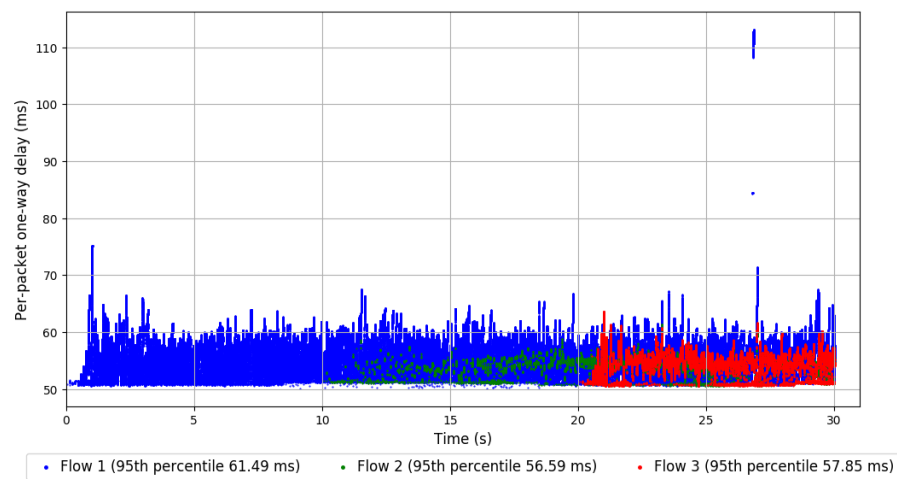
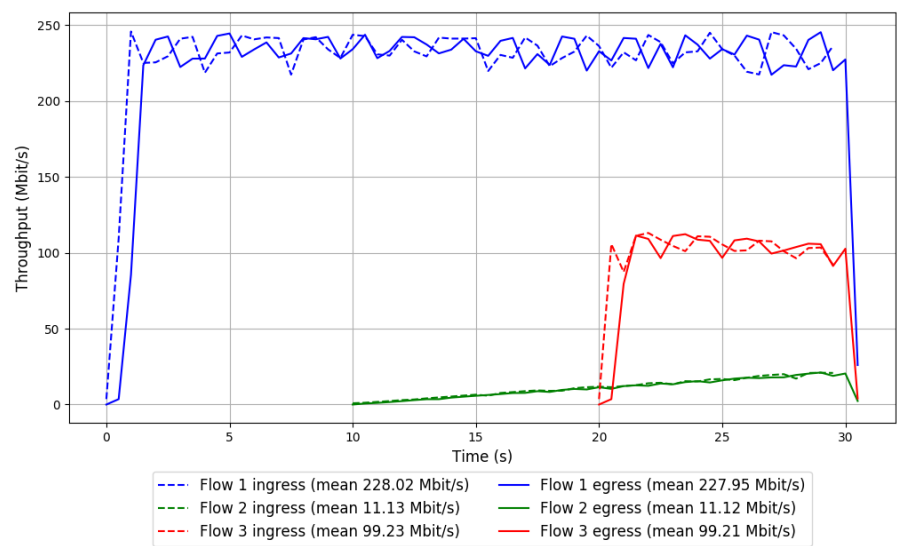
Run 7: Statistics of TCP Vegas

Start at: 2018-07-01 19:05:22  
End at: 2018-07-01 19:05:52  
Local clock offset: -0.223 ms  
Remote clock offset: -0.033 ms

# Below is generated by plot.py at 2018-07-01 22:37:20  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 268.29 Mbit/s  
95th percentile per-packet one-way delay: 61.219 ms  
Loss rate: 0.03%  
-- Flow 1:  
Average throughput: 227.95 Mbit/s  
95th percentile per-packet one-way delay: 61.488 ms  
Loss rate: 0.03%  
-- Flow 2:  
Average throughput: 11.12 Mbit/s  
95th percentile per-packet one-way delay: 56.588 ms  
Loss rate: 0.15%  
-- Flow 3:  
Average throughput: 99.21 Mbit/s  
95th percentile per-packet one-way delay: 57.848 ms  
Loss rate: 0.03%



Run 7: Report of TCP Vegas — Data Link

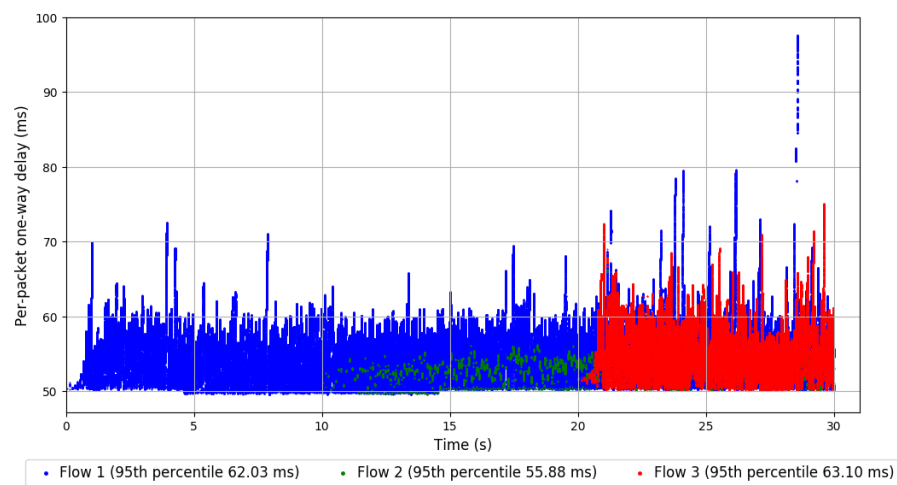
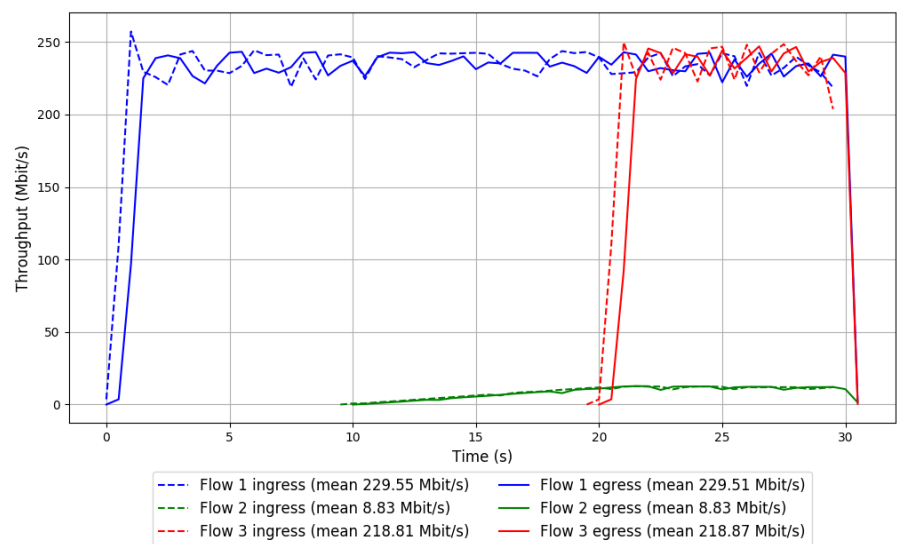


Run 8: Statistics of TCP Vegas

Start at: 2018-07-01 19:29:26  
End at: 2018-07-01 19:29:56  
Local clock offset: 0.214 ms  
Remote clock offset: -0.103 ms

# Below is generated by plot.py at 2018-07-01 22:37:20  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 308.14 Mbit/s  
95th percentile per-packet one-way delay: 62.312 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 229.51 Mbit/s  
95th percentile per-packet one-way delay: 62.032 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 8.83 Mbit/s  
95th percentile per-packet one-way delay: 55.876 ms  
Loss rate: 0.05%  
-- Flow 3:  
Average throughput: 218.87 Mbit/s  
95th percentile per-packet one-way delay: 63.097 ms  
Loss rate: 0.02%

Run 8: Report of TCP Vegas — Data Link

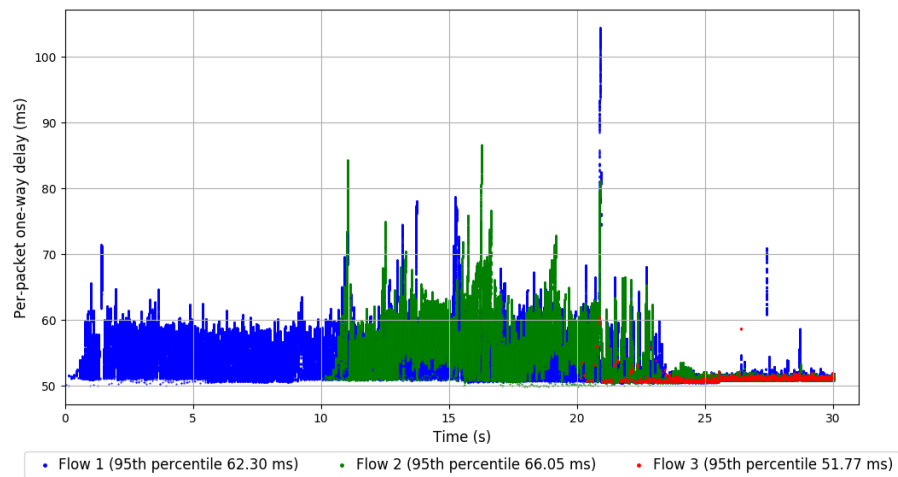
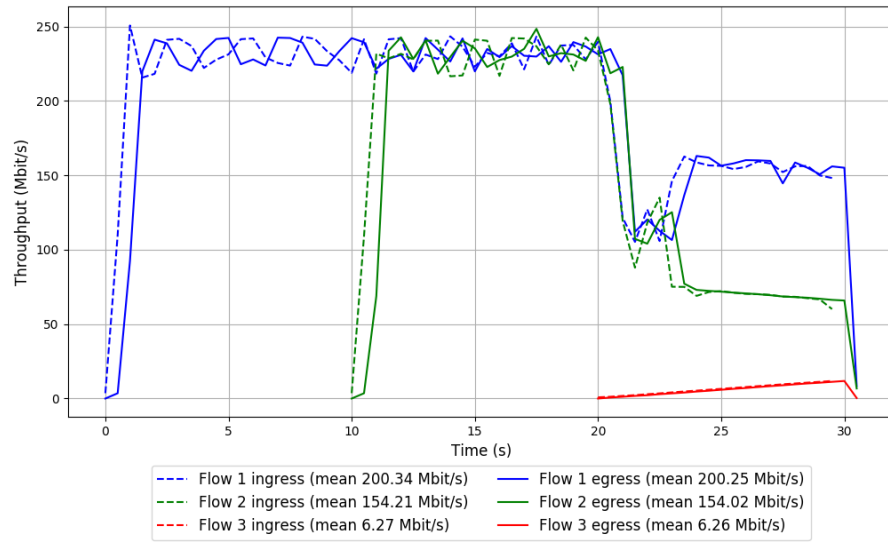


Run 9: Statistics of TCP Vegas

Start at: 2018-07-01 19:53:45  
End at: 2018-07-01 19:54:15  
Local clock offset: -0.226 ms  
Remote clock offset: -0.007 ms

# Below is generated by plot.py at 2018-07-01 22:37:20  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 304.92 Mbit/s  
95th percentile per-packet one-way delay: 63.782 ms  
Loss rate: 0.07%  
-- Flow 1:  
Average throughput: 200.25 Mbit/s  
95th percentile per-packet one-way delay: 62.296 ms  
Loss rate: 0.05%  
-- Flow 2:  
Average throughput: 154.02 Mbit/s  
95th percentile per-packet one-way delay: 66.047 ms  
Loss rate: 0.12%  
-- Flow 3:  
Average throughput: 6.26 Mbit/s  
95th percentile per-packet one-way delay: 51.775 ms  
Loss rate: 0.10%

### Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-07-01 20:18:03

End at: 2018-07-01 20:18:33

Local clock offset: 0.13 ms

Remote clock offset: 0.007 ms

# Below is generated by plot.py at 2018-07-01 22:37:36

# Datalink statistics

-- Total of 3 flows:

Average throughput: 339.28 Mbit/s

95th percentile per-packet one-way delay: 60.947 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 145.99 Mbit/s

95th percentile per-packet one-way delay: 56.903 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 224.75 Mbit/s

95th percentile per-packet one-way delay: 62.393 ms

Loss rate: 0.00%

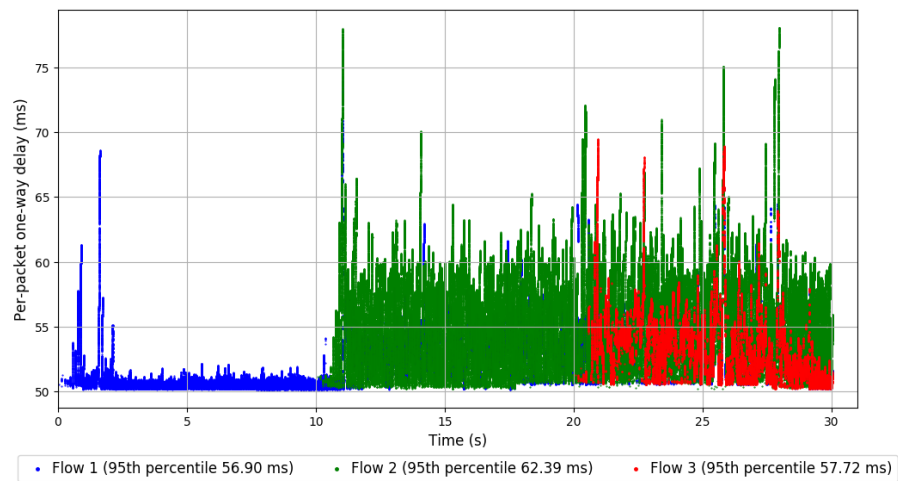
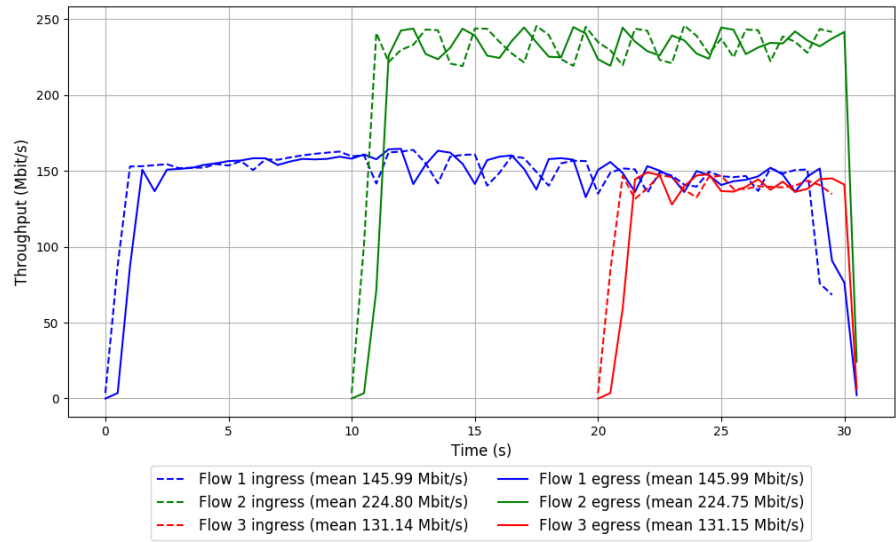
-- Flow 3:

Average throughput: 131.15 Mbit/s

95th percentile per-packet one-way delay: 57.715 ms

Loss rate: 0.00%

# Run 10: Report of TCP Vegas — Data Link



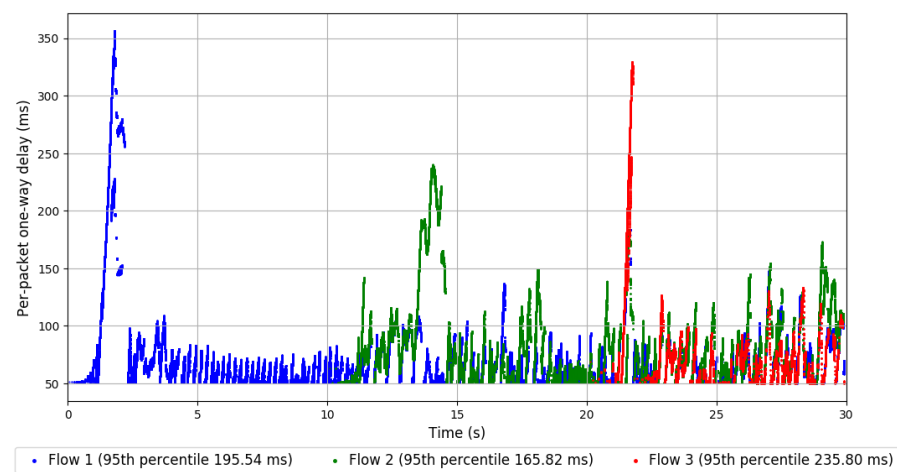
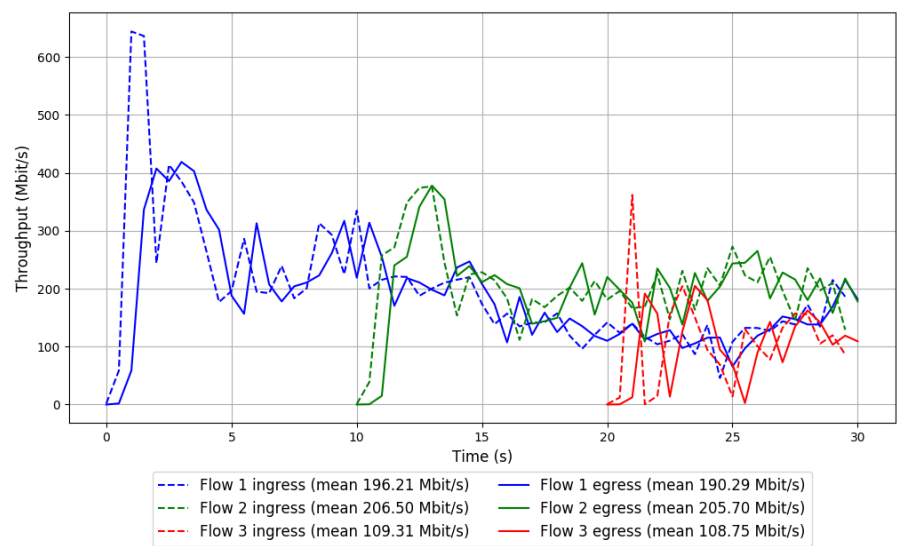
Run 1: Statistics of Verus

Start at: 2018-07-01 16:27:03  
End at: 2018-07-01 16:27:33  
Local clock offset: 0.083 ms  
Remote clock offset: -0.018 ms

# Below is generated by plot.py at 2018-07-01 22:38:45  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 362.22 Mbit/s  
95th percentile per-packet one-way delay: 176.816 ms  
Loss rate: 1.73%  
-- Flow 1:  
Average throughput: 190.29 Mbit/s  
95th percentile per-packet one-way delay: 195.537 ms  
Loss rate: 3.02%  
-- Flow 2:  
Average throughput: 205.70 Mbit/s  
95th percentile per-packet one-way delay: 165.817 ms  
Loss rate: 0.16%  
-- Flow 3:  
Average throughput: 108.75 Mbit/s  
95th percentile per-packet one-way delay: 235.798 ms  
Loss rate: 0.69%



Run 1: Report of Verus — Data Link

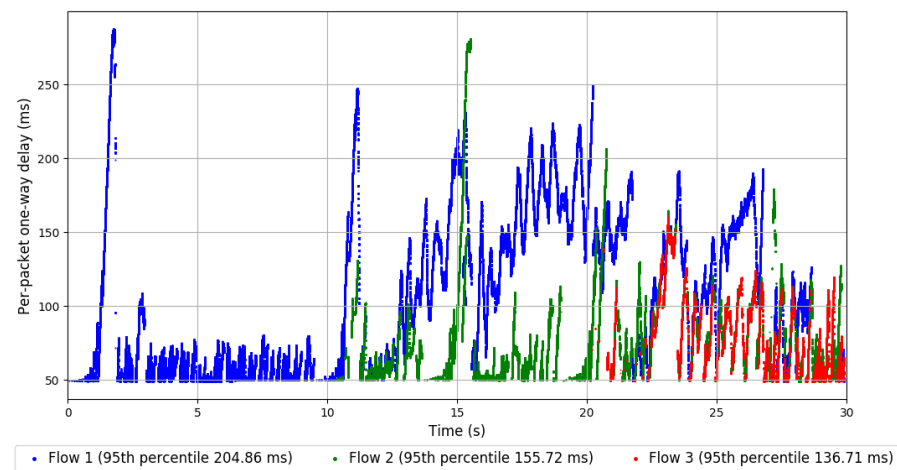
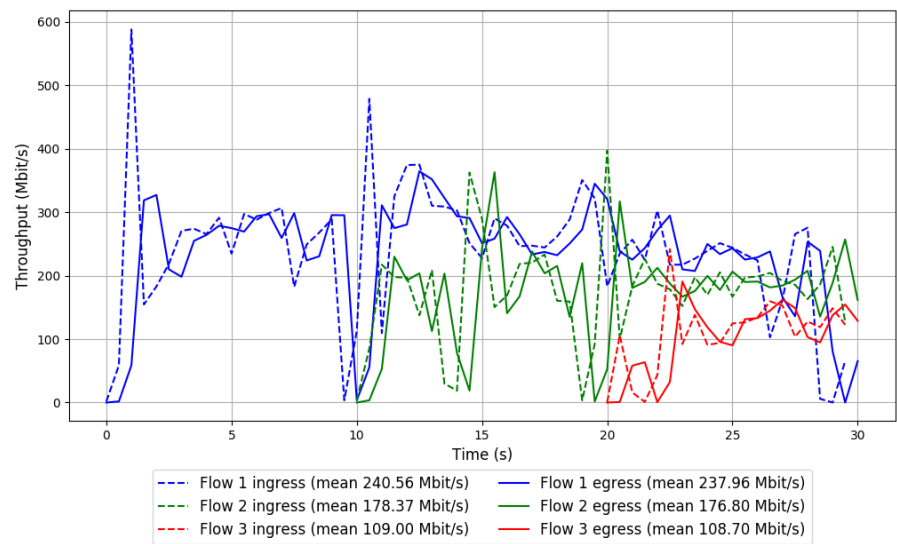


Run 2: Statistics of Verus

Start at: 2018-07-01 16:51:14  
End at: 2018-07-01 16:51:44  
Local clock offset: 0.492 ms  
Remote clock offset: 0.009 ms

# Below is generated by plot.py at 2018-07-01 22:40:06  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 390.61 Mbit/s  
95th percentile per-packet one-way delay: 195.676 ms  
Loss rate: 0.85%  
-- Flow 1:  
Average throughput: 237.96 Mbit/s  
95th percentile per-packet one-way delay: 204.864 ms  
Loss rate: 1.08%  
-- Flow 2:  
Average throughput: 176.80 Mbit/s  
95th percentile per-packet one-way delay: 155.719 ms  
Loss rate: 0.55%  
-- Flow 3:  
Average throughput: 108.70 Mbit/s  
95th percentile per-packet one-way delay: 136.711 ms  
Loss rate: 0.29%

Run 2: Report of Verus — Data Link

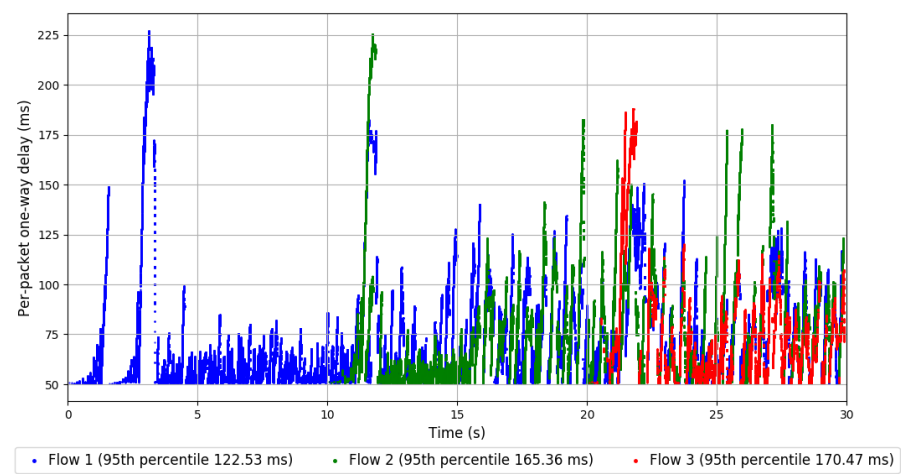
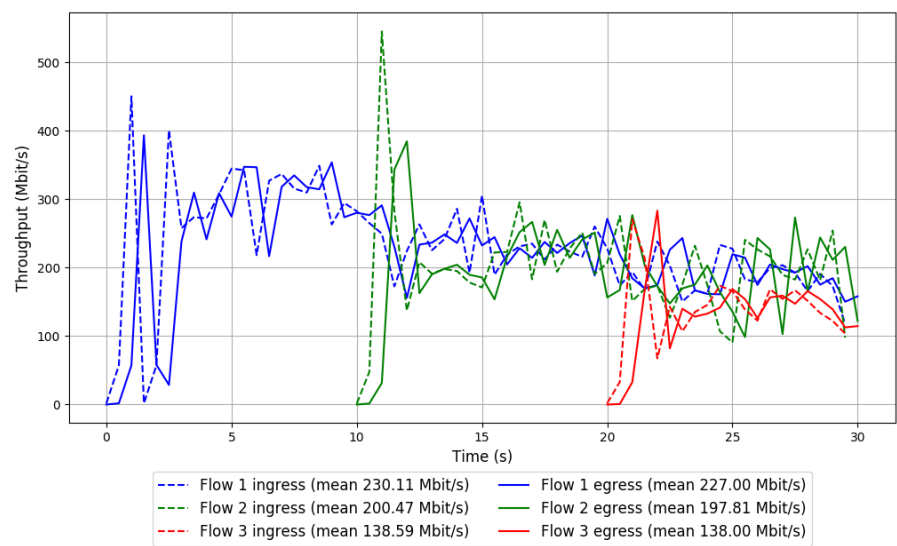


Run 3: Statistics of Verus

Start at: 2018-07-01 17:15:28  
End at: 2018-07-01 17:15:58  
Local clock offset: 0.064 ms  
Remote clock offset: -0.026 ms

# Below is generated by plot.py at 2018-07-01 22:41:46  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 402.92 Mbit/s  
95th percentile per-packet one-way delay: 148.044 ms  
Loss rate: 1.00%  
-- Flow 1:  
Average throughput: 227.00 Mbit/s  
95th percentile per-packet one-way delay: 122.530 ms  
Loss rate: 1.13%  
-- Flow 2:  
Average throughput: 197.81 Mbit/s  
95th percentile per-packet one-way delay: 165.360 ms  
Loss rate: 0.97%  
-- Flow 3:  
Average throughput: 138.00 Mbit/s  
95th percentile per-packet one-way delay: 170.471 ms  
Loss rate: 0.41%

Run 3: Report of Verus — Data Link

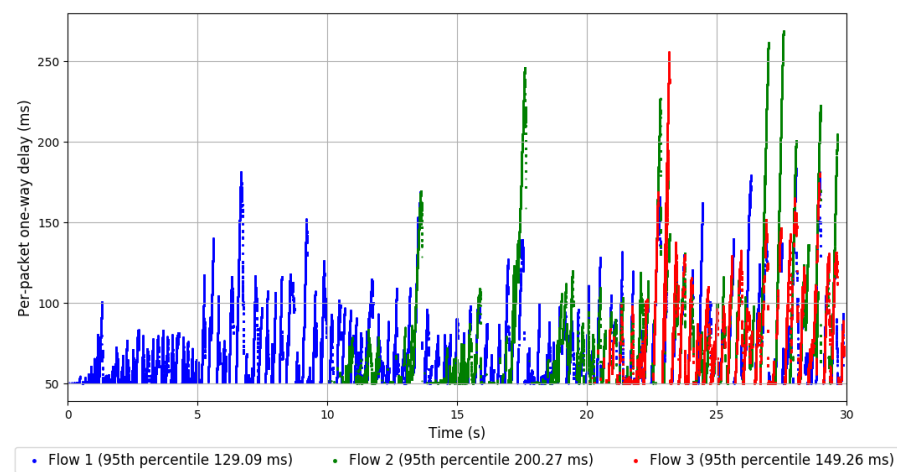
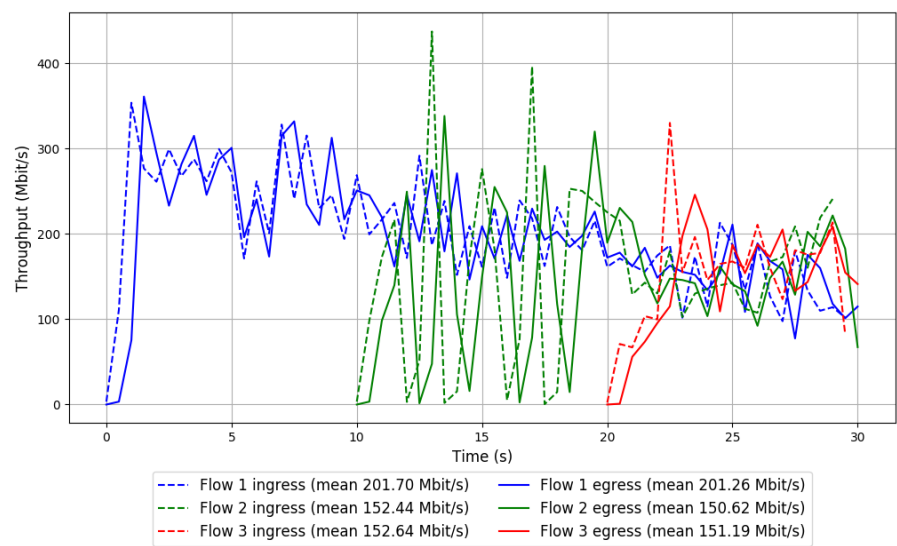


Run 4: Statistics of Verus

Start at: 2018-07-01 17:39:29  
End at: 2018-07-01 17:39:59  
Local clock offset: 0.082 ms  
Remote clock offset: -0.015 ms

# Below is generated by plot.py at 2018-07-01 22:41:46  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 349.65 Mbit/s  
95th percentile per-packet one-way delay: 157.154 ms  
Loss rate: 0.33%  
-- Flow 1:  
Average throughput: 201.26 Mbit/s  
95th percentile per-packet one-way delay: 129.095 ms  
Loss rate: 0.18%  
-- Flow 2:  
Average throughput: 150.62 Mbit/s  
95th percentile per-packet one-way delay: 200.269 ms  
Loss rate: 0.42%  
-- Flow 3:  
Average throughput: 151.19 Mbit/s  
95th percentile per-packet one-way delay: 149.257 ms  
Loss rate: 0.72%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-07-01 18:03:37

End at: 2018-07-01 18:04:07

Local clock offset: 0.099 ms

Remote clock offset: -0.14 ms

# Below is generated by plot.py at 2018-07-01 22:42:30

# Datalink statistics

-- Total of 3 flows:

Average throughput: 348.08 Mbit/s

95th percentile per-packet one-way delay: 147.143 ms

Loss rate: 0.20%

-- Flow 1:

Average throughput: 201.16 Mbit/s

95th percentile per-packet one-way delay: 134.625 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 154.00 Mbit/s

95th percentile per-packet one-way delay: 162.390 ms

Loss rate: 0.40%

-- Flow 3:

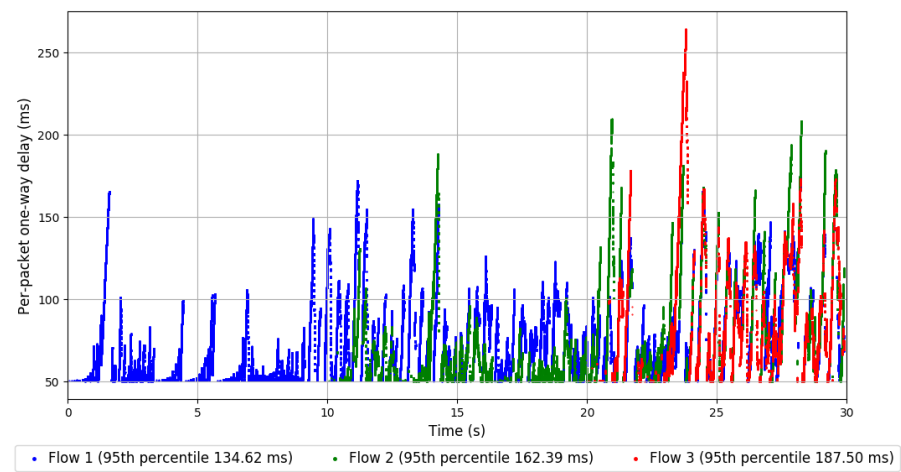
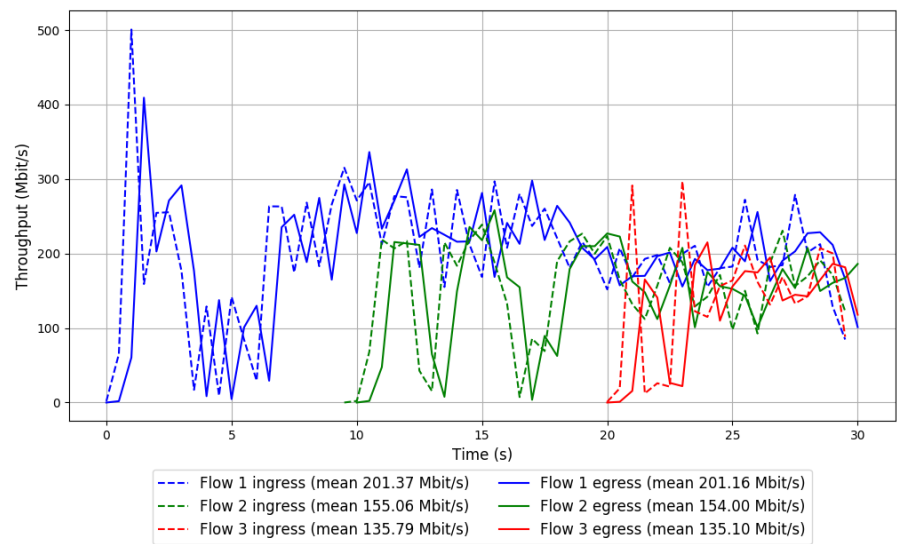
Average throughput: 135.10 Mbit/s

95th percentile per-packet one-way delay: 187.501 ms

Loss rate: 0.50%



Run 5: Report of Verus — Data Link

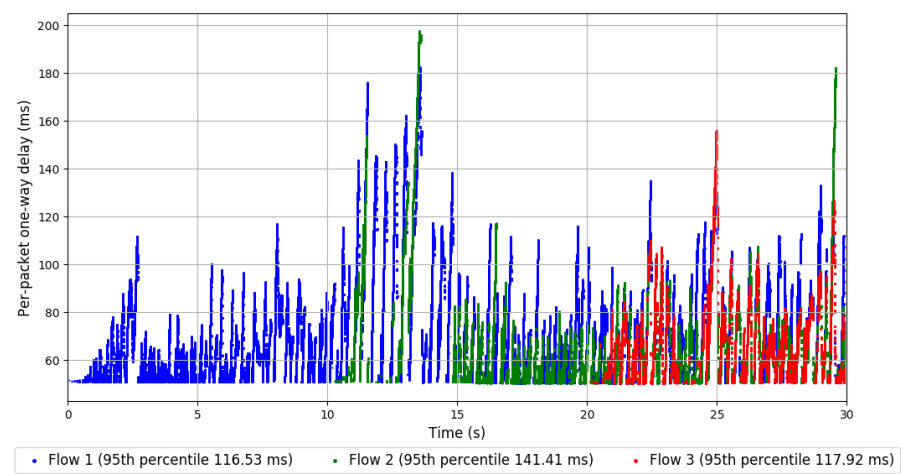
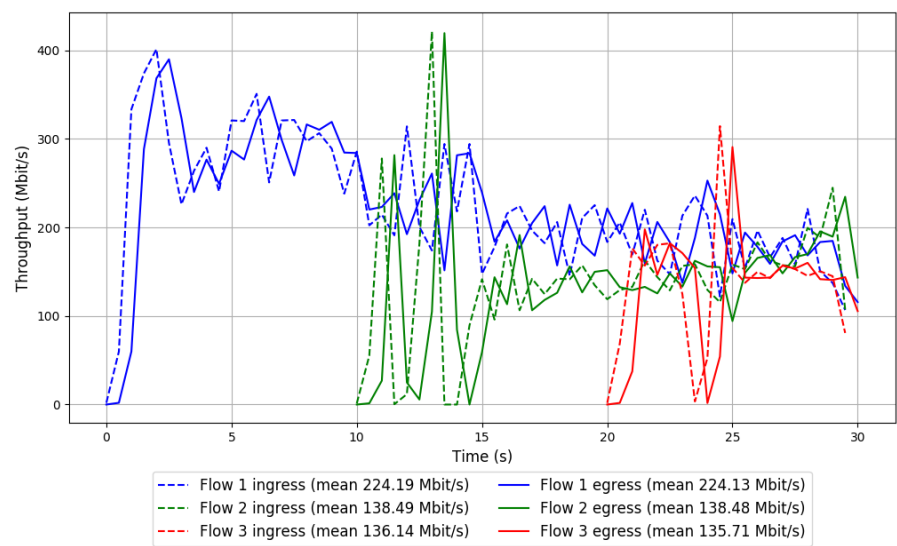


Run 6: Statistics of Verus

Start at: 2018-07-01 18:27:35  
End at: 2018-07-01 18:28:05  
Local clock offset: 0.047 ms  
Remote clock offset: -0.092 ms

```
# Below is generated by plot.py at 2018-07-01 22:42:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 360.84 Mbit/s
95th percentile per-packet one-way delay: 123.513 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 224.13 Mbit/s
95th percentile per-packet one-way delay: 116.533 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 138.48 Mbit/s
95th percentile per-packet one-way delay: 141.415 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 135.71 Mbit/s
95th percentile per-packet one-way delay: 117.920 ms
Loss rate: 0.31%
```

Run 6: Report of Verus — Data Link

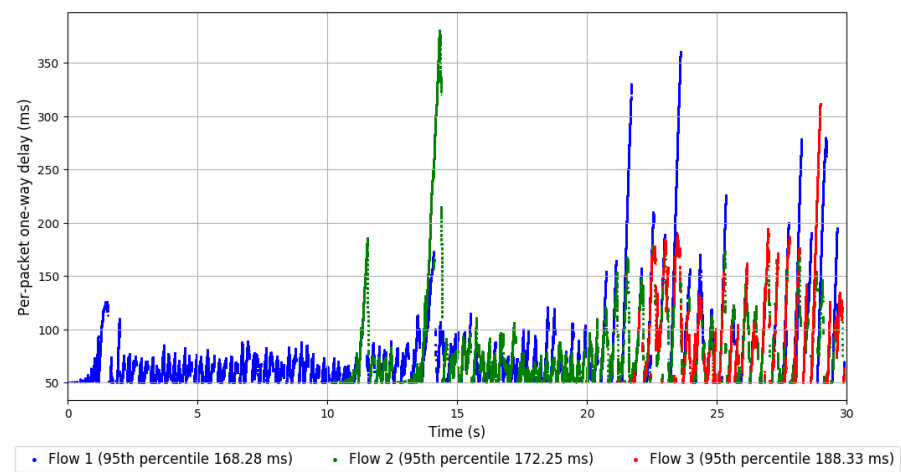
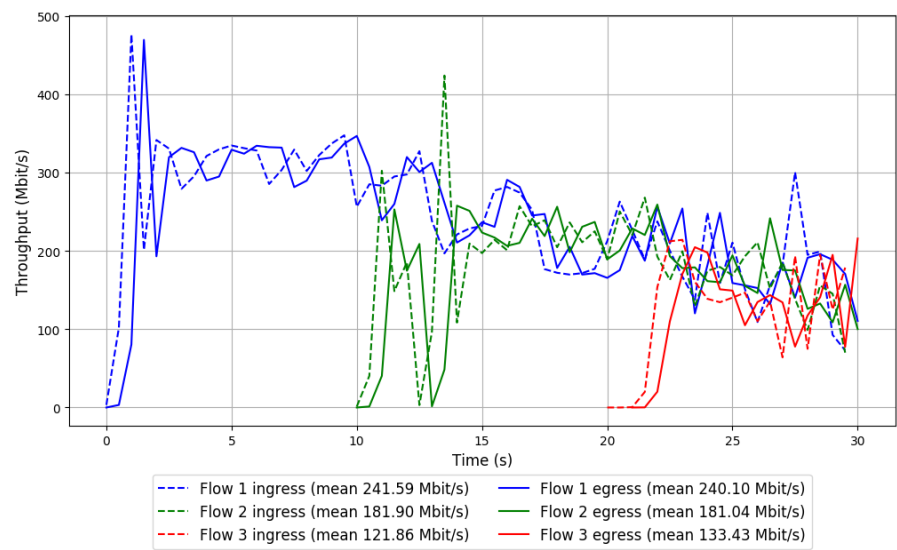


Run 7: Statistics of Verus

Start at: 2018-07-01 18:51:36  
End at: 2018-07-01 18:52:06  
Local clock offset: -0.348 ms  
Remote clock offset: -0.003 ms

# Below is generated by plot.py at 2018-07-01 22:44:13  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 399.24 Mbit/s  
95th percentile per-packet one-way delay: 174.826 ms  
Loss rate: 0.85%  
-- Flow 1:  
Average throughput: 240.10 Mbit/s  
95th percentile per-packet one-way delay: 168.276 ms  
Loss rate: 0.61%  
-- Flow 2:  
Average throughput: 181.04 Mbit/s  
95th percentile per-packet one-way delay: 172.245 ms  
Loss rate: 0.88%  
-- Flow 3:  
Average throughput: 133.43 Mbit/s  
95th percentile per-packet one-way delay: 188.329 ms  
Loss rate: 2.18%

Run 7: Report of Verus — Data Link

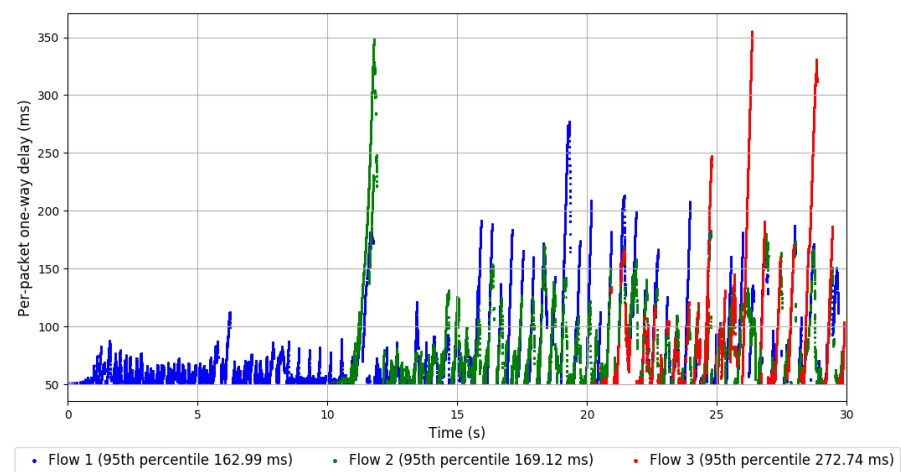
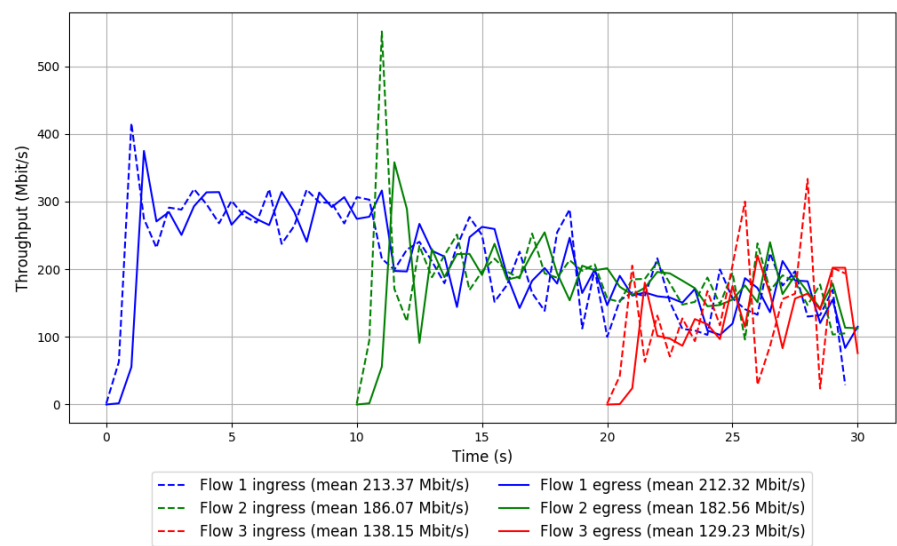


Run 8: Statistics of Verus

Start at: 2018-07-01 19:15:37  
End at: 2018-07-01 19:16:07  
Local clock offset: -0.286 ms  
Remote clock offset: -0.095 ms

# Below is generated by plot.py at 2018-07-01 22:44:13  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 374.11 Mbit/s  
95th percentile per-packet one-way delay: 171.821 ms  
Loss rate: 1.55%  
-- Flow 1:  
Average throughput: 212.32 Mbit/s  
95th percentile per-packet one-way delay: 162.993 ms  
Loss rate: 0.29%  
-- Flow 2:  
Average throughput: 182.56 Mbit/s  
95th percentile per-packet one-way delay: 169.125 ms  
Loss rate: 1.79%  
-- Flow 3:  
Average throughput: 129.23 Mbit/s  
95th percentile per-packet one-way delay: 272.740 ms  
Loss rate: 6.77%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-07-01 19:39:47

End at: 2018-07-01 19:40:17

Local clock offset: 0.133 ms

Remote clock offset: 0.026 ms

# Below is generated by plot.py at 2018-07-01 22:45:12

# Datalink statistics

-- Total of 3 flows:

Average throughput: 362.09 Mbit/s

95th percentile per-packet one-way delay: 185.993 ms

Loss rate: 2.32%

-- Flow 1:

Average throughput: 227.67 Mbit/s

95th percentile per-packet one-way delay: 139.087 ms

Loss rate: 1.53%

-- Flow 2:

Average throughput: 112.74 Mbit/s

95th percentile per-packet one-way delay: 167.139 ms

Loss rate: 1.09%

-- Flow 3:

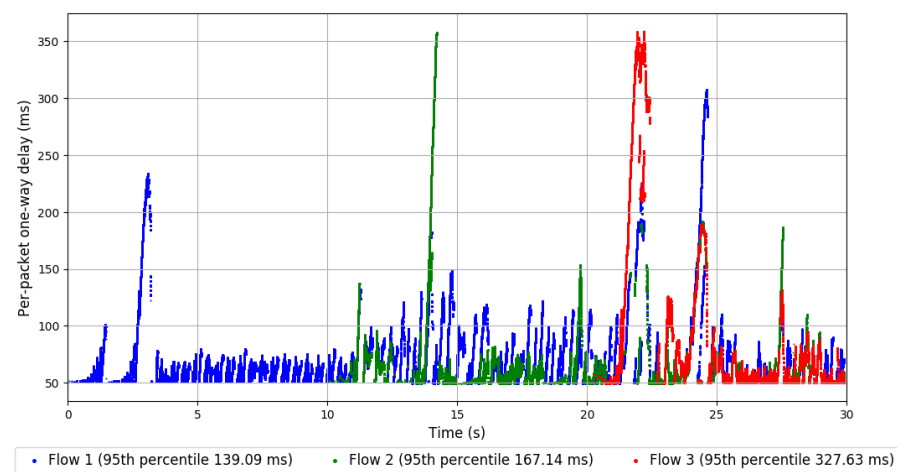
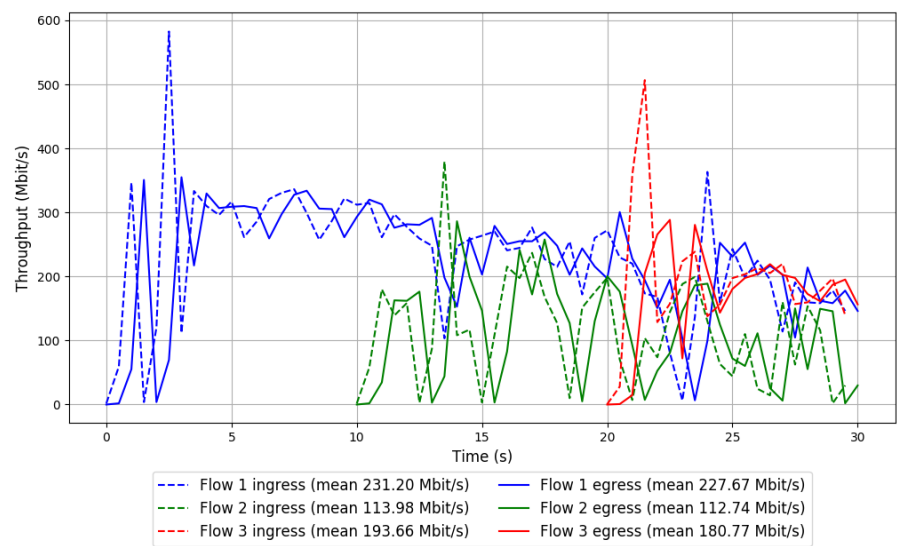
Average throughput: 180.77 Mbit/s

95th percentile per-packet one-way delay: 327.627 ms

Loss rate: 6.65%



Run 9: Report of Verus — Data Link

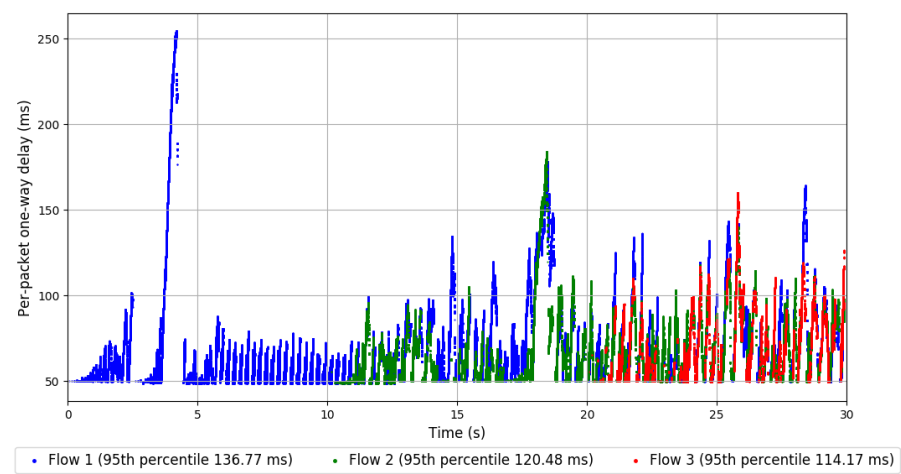
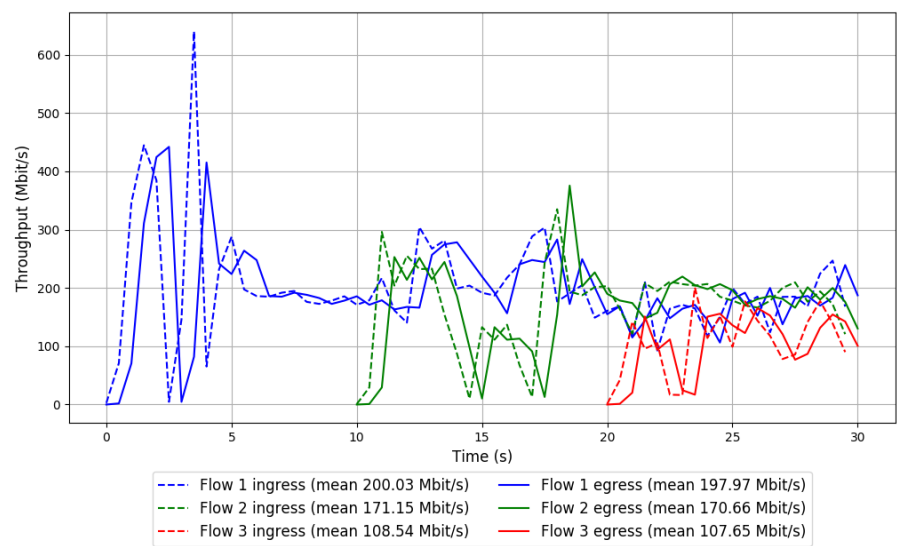


Run 10: Statistics of Verus

Start at: 2018-07-01 20:04:07  
End at: 2018-07-01 20:04:37  
Local clock offset: 0.494 ms  
Remote clock offset: -0.016 ms

# Below is generated by plot.py at 2018-07-01 22:46:07  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 346.86 Mbit/s  
95th percentile per-packet one-way delay: 130.881 ms  
Loss rate: 0.78%  
-- Flow 1:  
Average throughput: 197.97 Mbit/s  
95th percentile per-packet one-way delay: 136.768 ms  
Loss rate: 1.03%  
-- Flow 2:  
Average throughput: 170.66 Mbit/s  
95th percentile per-packet one-way delay: 120.481 ms  
Loss rate: 0.29%  
-- Flow 3:  
Average throughput: 107.65 Mbit/s  
95th percentile per-packet one-way delay: 114.170 ms  
Loss rate: 0.88%

Run 10: Report of Verus — Data Link

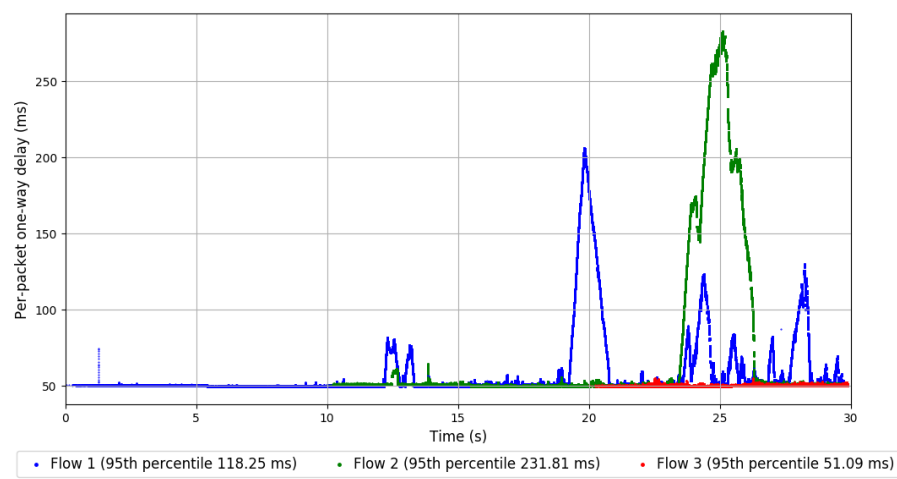
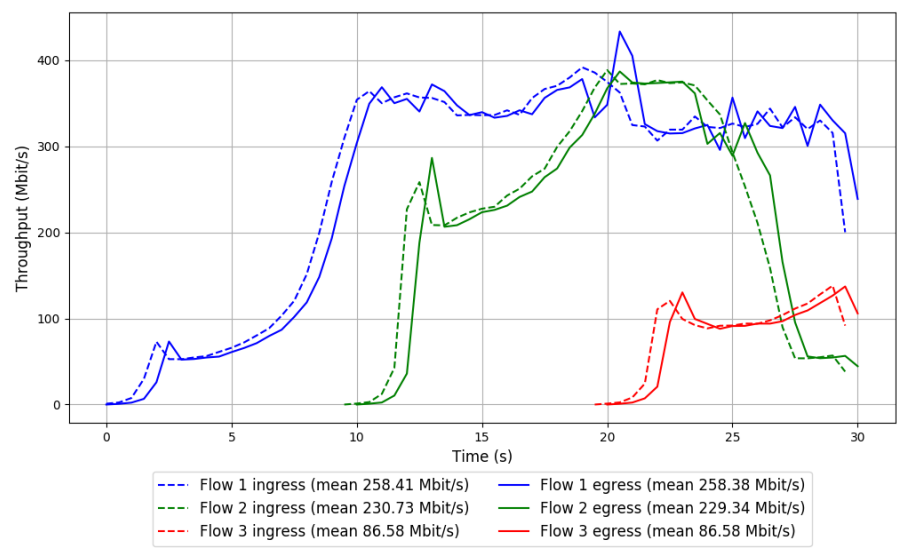


Run 1: Statistics of PCC-Vivace

Start at: 2018-07-01 16:38:05  
End at: 2018-07-01 16:38:35  
Local clock offset: 0.068 ms  
Remote clock offset: -0.036 ms

# Below is generated by plot.py at 2018-07-01 22:49:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 439.79 Mbit/s  
95th percentile per-packet one-way delay: 169.214 ms  
Loss rate: 0.22%  
-- Flow 1:  
Average throughput: 258.38 Mbit/s  
95th percentile per-packet one-way delay: 118.251 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 229.34 Mbit/s  
95th percentile per-packet one-way delay: 231.813 ms  
Loss rate: 0.60%  
-- Flow 3:  
Average throughput: 86.58 Mbit/s  
95th percentile per-packet one-way delay: 51.091 ms  
Loss rate: 0.00%

Run 1: Report of PCC-Vivace — Data Link

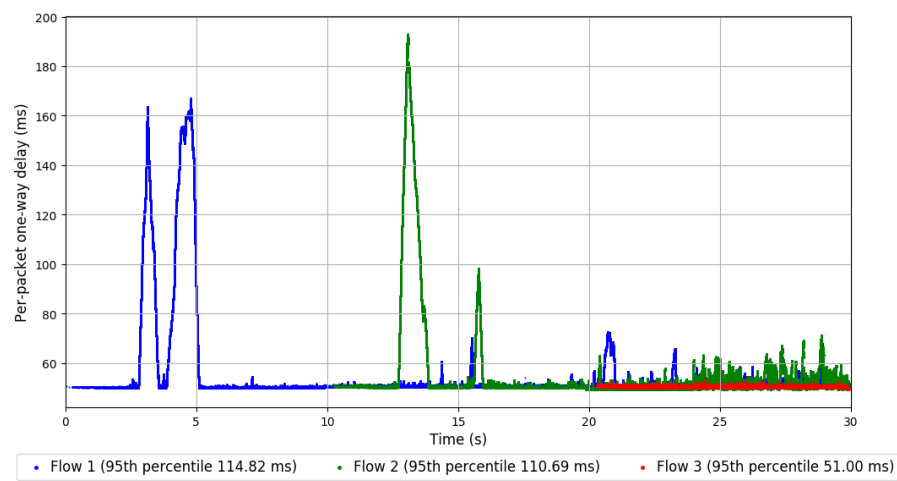
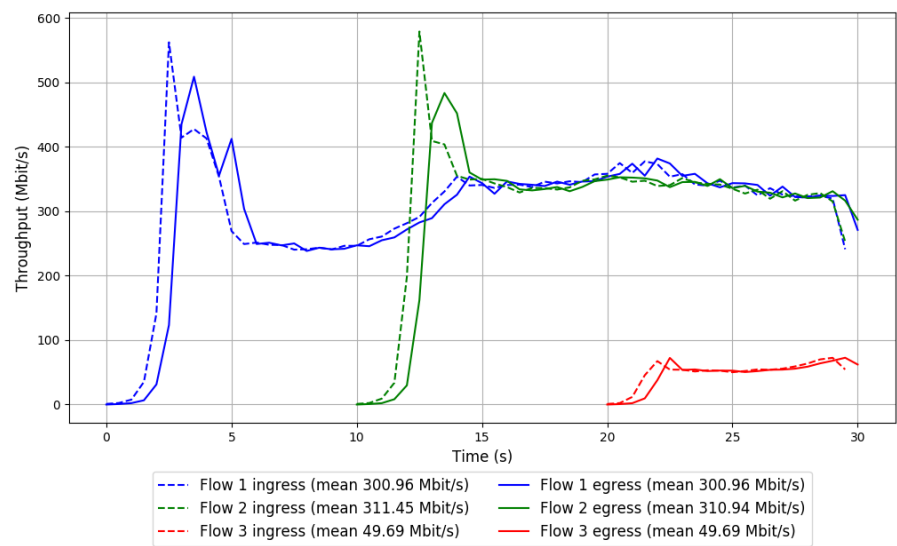


Run 2: Statistics of PCC-Vivace

Start at: 2018-07-01 17:02:10  
End at: 2018-07-01 17:02:40  
Local clock offset: 0.13 ms  
Remote clock offset: -0.004 ms

# Below is generated by plot.py at 2018-07-01 22:51:07  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 524.18 Mbit/s  
95th percentile per-packet one-way delay: 111.230 ms  
Loss rate: 0.06%  
-- Flow 1:  
Average throughput: 300.96 Mbit/s  
95th percentile per-packet one-way delay: 114.824 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 310.94 Mbit/s  
95th percentile per-packet one-way delay: 110.688 ms  
Loss rate: 0.16%  
-- Flow 3:  
Average throughput: 49.69 Mbit/s  
95th percentile per-packet one-way delay: 50.996 ms  
Loss rate: 0.00%

Run 2: Report of PCC-Vivace — Data Link



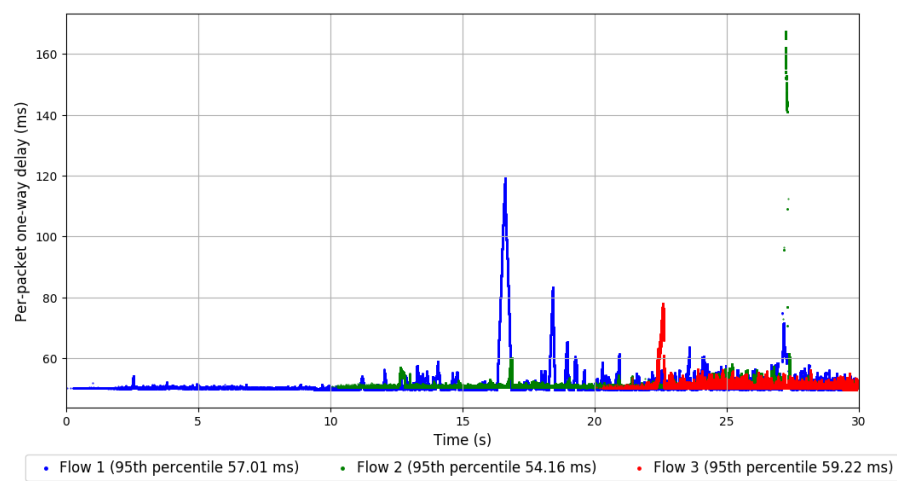
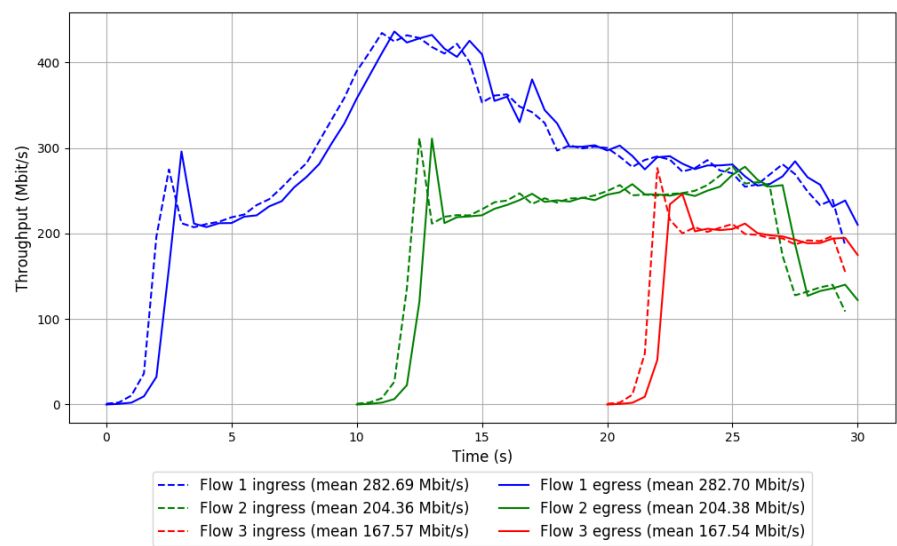
Run 3: Statistics of PCC-Vivace

Start at: 2018-07-01 17:26:31  
End at: 2018-07-01 17:27:01  
Local clock offset: 0.489 ms  
Remote clock offset: -0.061 ms

# Below is generated by plot.py at 2018-07-01 22:51:07  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 473.85 Mbit/s  
95th percentile per-packet one-way delay: 55.834 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 282.70 Mbit/s  
95th percentile per-packet one-way delay: 57.008 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 204.38 Mbit/s  
95th percentile per-packet one-way delay: 54.159 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 167.54 Mbit/s  
95th percentile per-packet one-way delay: 59.222 ms  
Loss rate: 0.04%



Run 3: Report of PCC-Vivace — Data Link

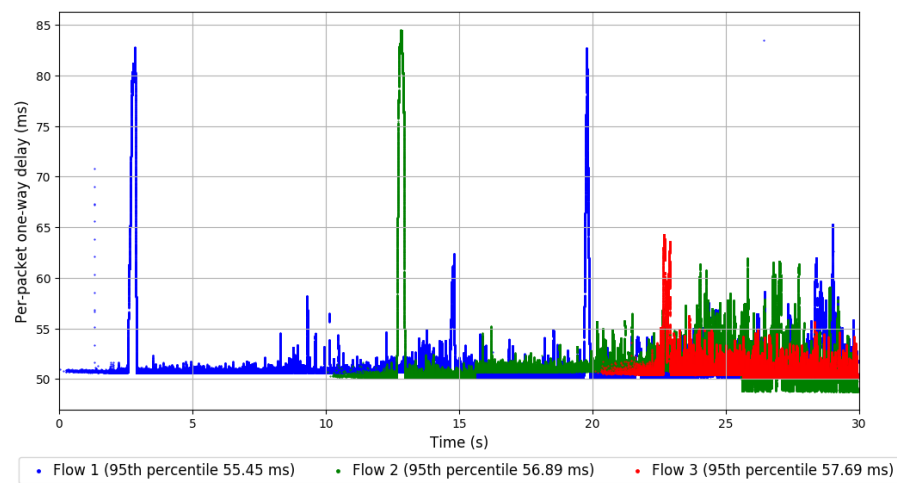
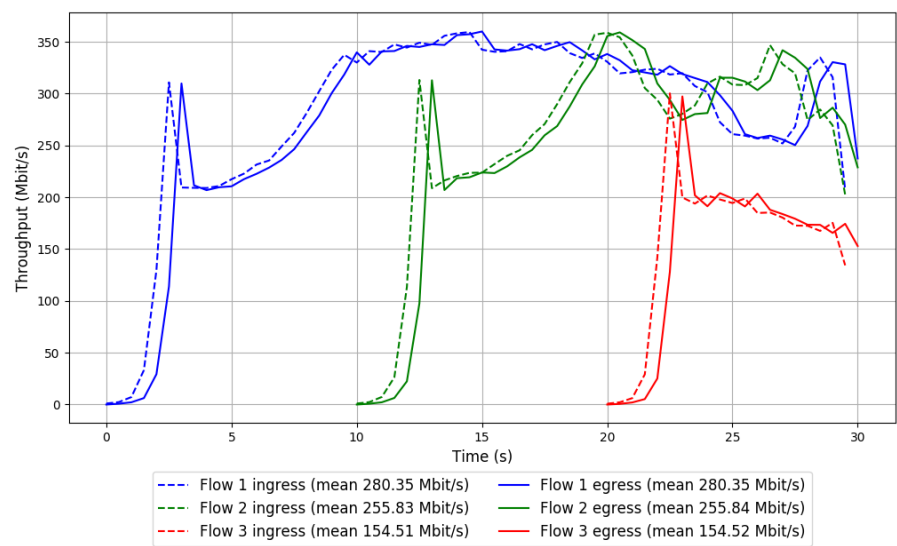


Run 4: Statistics of PCC-Vivace

Start at: 2018-07-01 17:50:34  
End at: 2018-07-01 17:51:04  
Local clock offset: 0.071 ms  
Remote clock offset: -0.106 ms

# Below is generated by plot.py at 2018-07-01 22:51:45  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 501.38 Mbit/s  
95th percentile per-packet one-way delay: 56.241 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 280.35 Mbit/s  
95th percentile per-packet one-way delay: 55.448 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 255.84 Mbit/s  
95th percentile per-packet one-way delay: 56.887 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 154.52 Mbit/s  
95th percentile per-packet one-way delay: 57.694 ms  
Loss rate: 0.00%

Run 4: Report of PCC-Vivace — Data Link

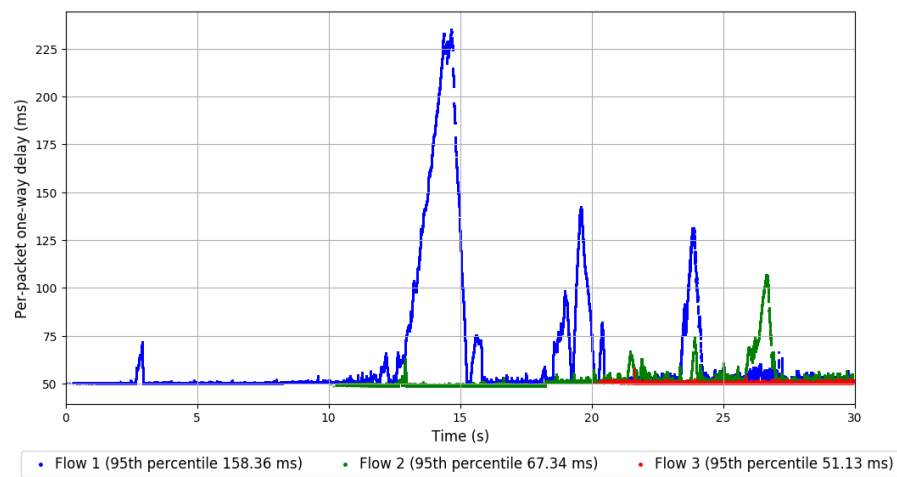
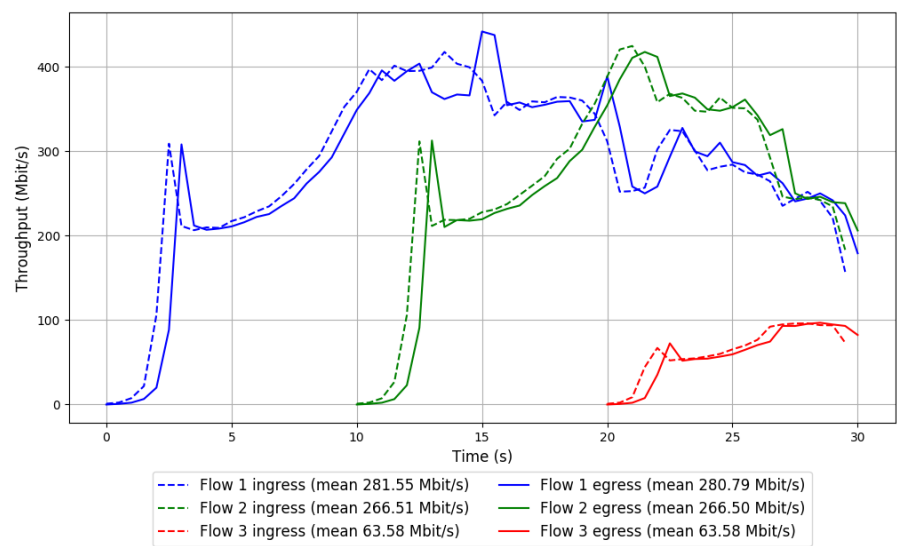


Run 5: Statistics of PCC-Vivace

Start at: 2018-07-01 18:14:32  
End at: 2018-07-01 18:15:02  
Local clock offset: 0.076 ms  
Remote clock offset: -0.146 ms

# Below is generated by plot.py at 2018-07-01 22:52:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 478.99 Mbit/s  
95th percentile per-packet one-way delay: 121.377 ms  
Loss rate: 0.16%  
-- Flow 1:  
Average throughput: 280.79 Mbit/s  
95th percentile per-packet one-way delay: 158.359 ms  
Loss rate: 0.27%  
-- Flow 2:  
Average throughput: 266.50 Mbit/s  
95th percentile per-packet one-way delay: 67.336 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 63.58 Mbit/s  
95th percentile per-packet one-way delay: 51.129 ms  
Loss rate: 0.00%

Run 5: Report of PCC-Vivace — Data Link

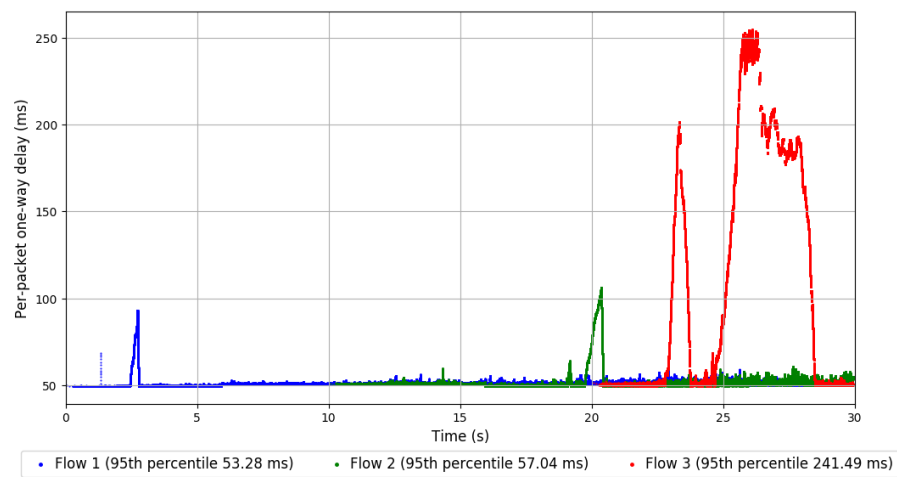
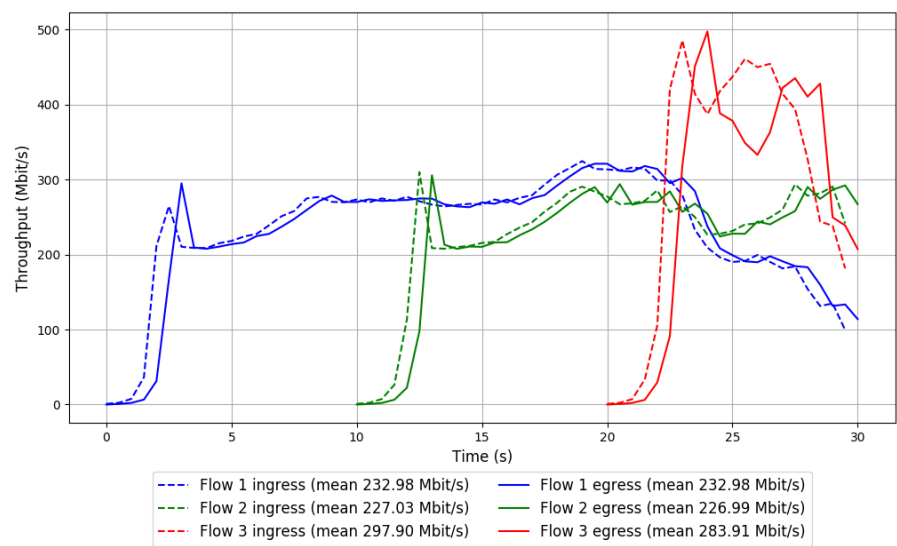


Run 6: Statistics of PCC-Vivace

Start at: 2018-07-01 18:38:34  
End at: 2018-07-01 18:39:04  
Local clock offset: -0.024 ms  
Remote clock offset: -0.027 ms

```
# Below is generated by plot.py at 2018-07-01 22:52:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 477.63 Mbit/s
95th percentile per-packet one-way delay: 189.331 ms
Loss rate: 0.97%
-- Flow 1:
Average throughput: 232.98 Mbit/s
95th percentile per-packet one-way delay: 53.282 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 226.99 Mbit/s
95th percentile per-packet one-way delay: 57.037 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 283.91 Mbit/s
95th percentile per-packet one-way delay: 241.491 ms
Loss rate: 4.71%
```

Run 6: Report of PCC-Vivace — Data Link



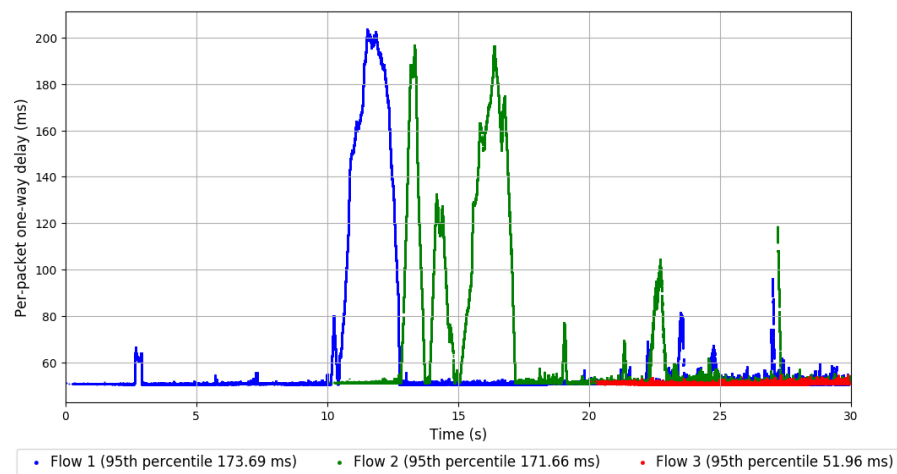
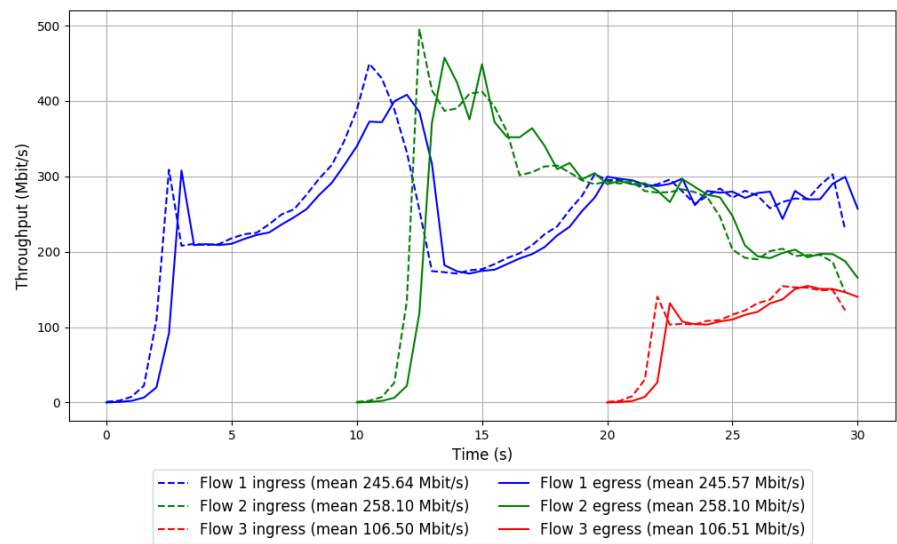
Run 7: Statistics of PCC-Vivace

Start at: 2018-07-01 19:02:32  
End at: 2018-07-01 19:03:02  
Local clock offset: -0.261 ms  
Remote clock offset: -0.072 ms

# Below is generated by plot.py at 2018-07-01 22:53:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 452.32 Mbit/s  
95th percentile per-packet one-way delay: 170.296 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 245.57 Mbit/s  
95th percentile per-packet one-way delay: 173.690 ms  
Loss rate: 0.03%  
-- Flow 2:  
Average throughput: 258.10 Mbit/s  
95th percentile per-packet one-way delay: 171.663 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 106.51 Mbit/s  
95th percentile per-packet one-way delay: 51.962 ms  
Loss rate: 0.00%



Run 7: Report of PCC-Vivace — Data Link

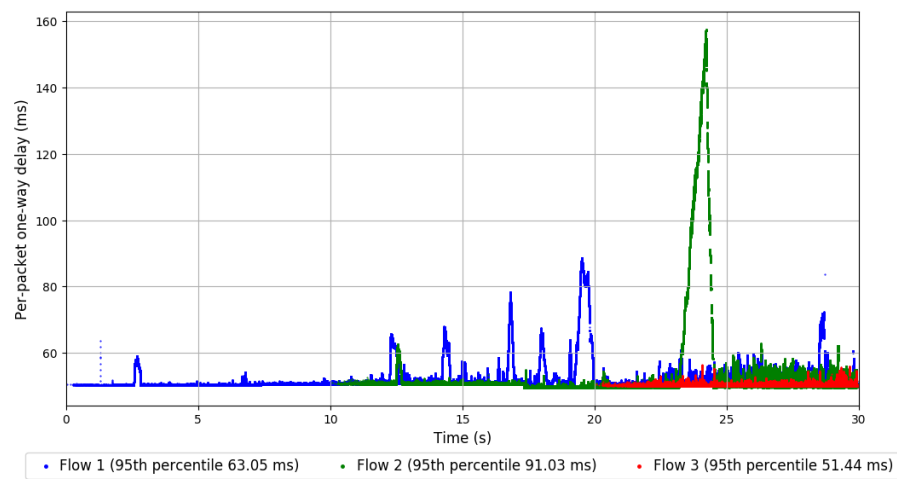
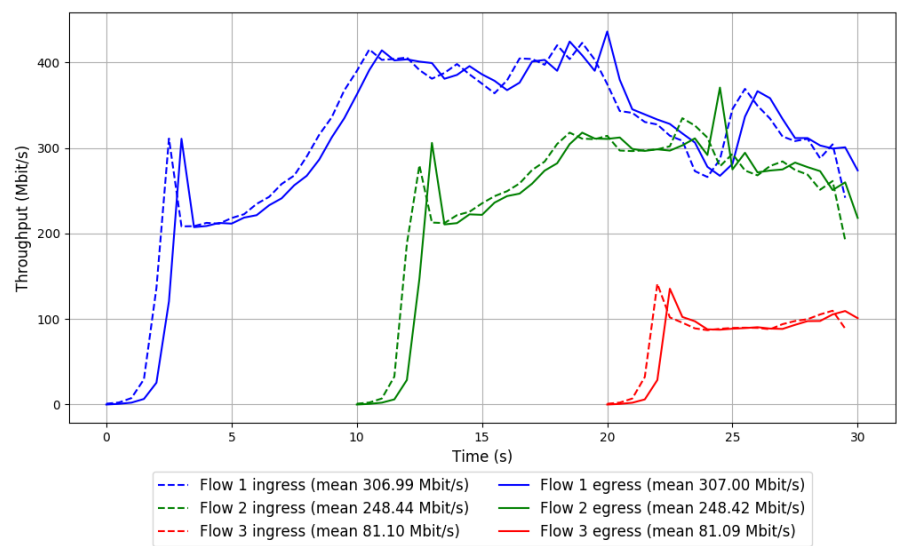


Run 8: Statistics of PCC-Vivace

Start at: 2018-07-01 19:26:33  
End at: 2018-07-01 19:27:03  
Local clock offset: 0.202 ms  
Remote clock offset: -0.127 ms

# Below is generated by plot.py at 2018-07-01 22:53:34  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 498.93 Mbit/s  
95th percentile per-packet one-way delay: 64.511 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 307.00 Mbit/s  
95th percentile per-packet one-way delay: 63.045 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 248.42 Mbit/s  
95th percentile per-packet one-way delay: 91.035 ms  
Loss rate: 0.01%  
-- Flow 3:  
Average throughput: 81.09 Mbit/s  
95th percentile per-packet one-way delay: 51.440 ms  
Loss rate: 0.01%

Run 8: Report of PCC-Vivace — Data Link

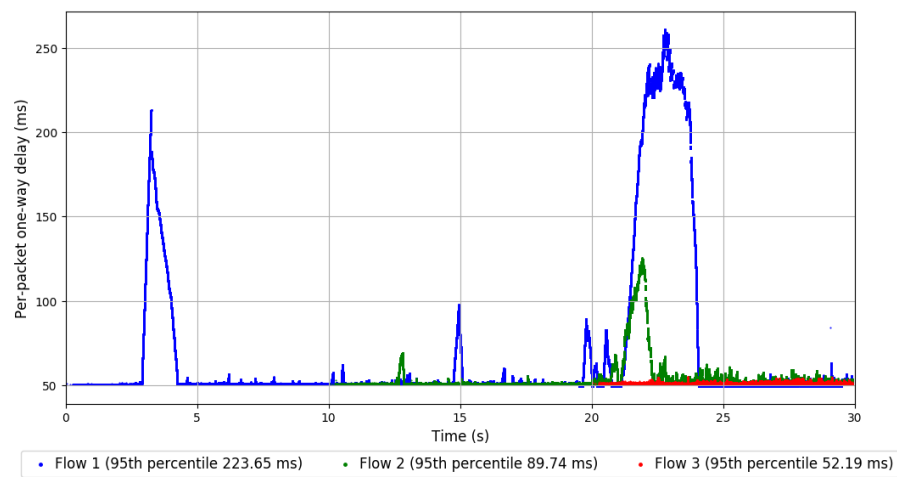
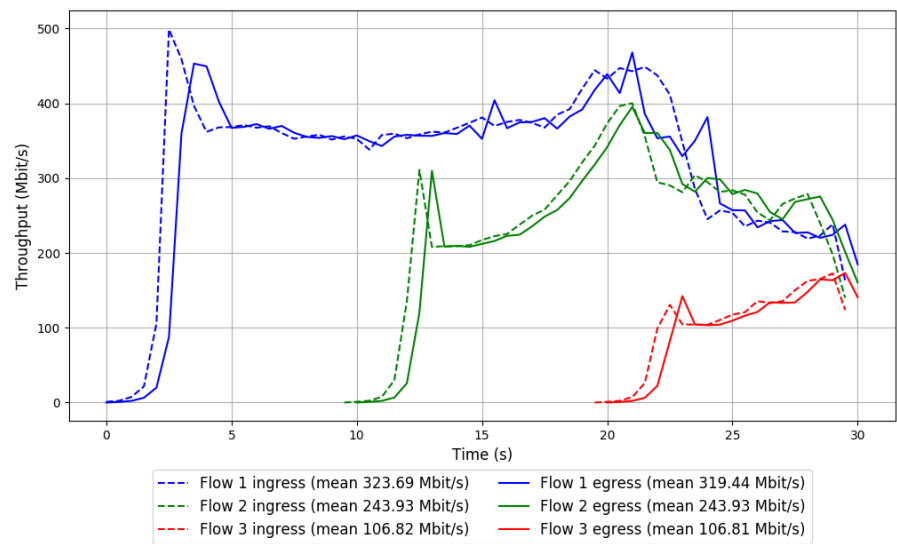


Run 9: Statistics of PCC-Vivace

Start at: 2018-07-01 19:50:51  
End at: 2018-07-01 19:51:21  
Local clock offset: 0.129 ms  
Remote clock offset: -0.002 ms

# Below is generated by plot.py at 2018-07-01 22:54:16  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 517.06 Mbit/s  
95th percentile per-packet one-way delay: 176.869 ms  
Loss rate: 0.82%  
-- Flow 1:  
Average throughput: 319.44 Mbit/s  
95th percentile per-packet one-way delay: 223.647 ms  
Loss rate: 1.31%  
-- Flow 2:  
Average throughput: 243.93 Mbit/s  
95th percentile per-packet one-way delay: 89.736 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 106.81 Mbit/s  
95th percentile per-packet one-way delay: 52.188 ms  
Loss rate: 0.00%

Run 9: Report of PCC-Vivace — Data Link

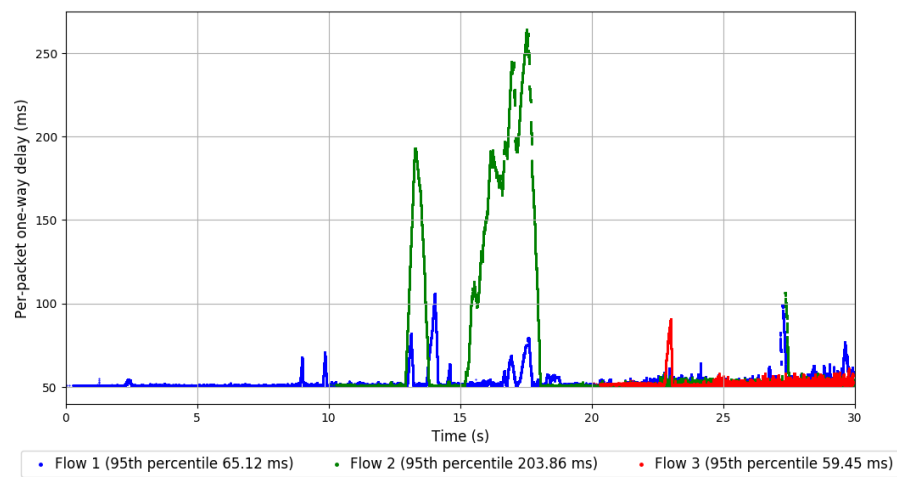
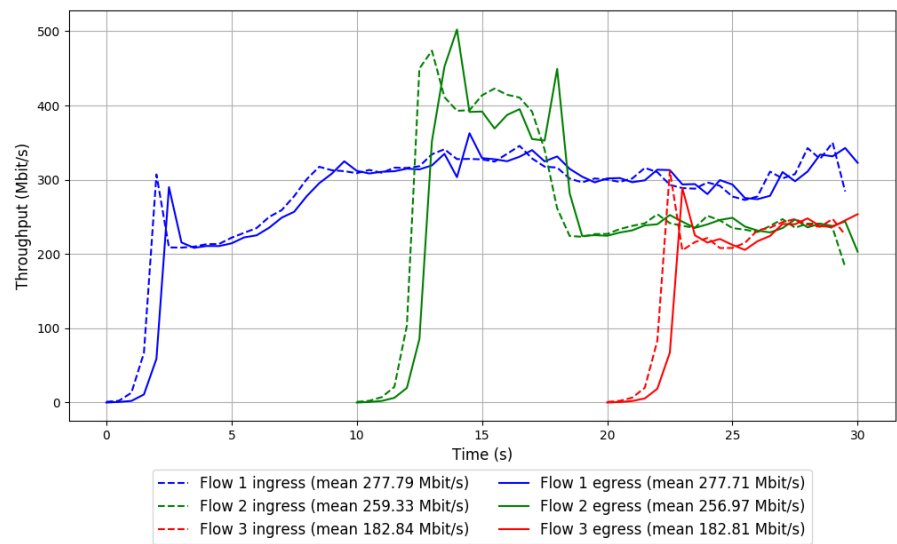


Run 10: Statistics of PCC-Vivace

Start at: 2018-07-01 20:15:09  
End at: 2018-07-01 20:15:39  
Local clock offset: -0.222 ms  
Remote clock offset: -0.002 ms

# Below is generated by plot.py at 2018-07-01 22:54:26  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 508.89 Mbit/s  
95th percentile per-packet one-way delay: 167.016 ms  
Loss rate: 0.32%  
-- Flow 1:  
Average throughput: 277.71 Mbit/s  
95th percentile per-packet one-way delay: 65.118 ms  
Loss rate: 0.02%  
-- Flow 2:  
Average throughput: 256.97 Mbit/s  
95th percentile per-packet one-way delay: 203.863 ms  
Loss rate: 0.91%  
-- Flow 3:  
Average throughput: 182.81 Mbit/s  
95th percentile per-packet one-way delay: 59.451 ms  
Loss rate: 0.02%

Run 10: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

Start at: 2018-07-01 16:45:42

End at: 2018-07-01 16:46:12

Local clock offset: 0.089 ms

Remote clock offset: 0.037 ms

# Below is generated by plot.py at 2018-07-01 22:54:26

# Datalink statistics

-- Total of 3 flows:

Average throughput: 4.35 Mbit/s

95th percentile per-packet one-way delay: 50.958 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 50.910 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.52 Mbit/s

95th percentile per-packet one-way delay: 51.063 ms

Loss rate: 0.00%

-- Flow 3:

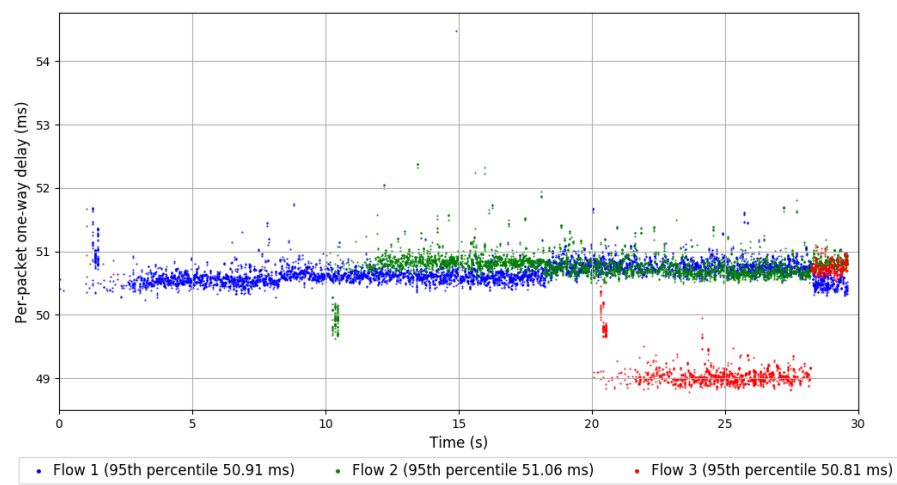
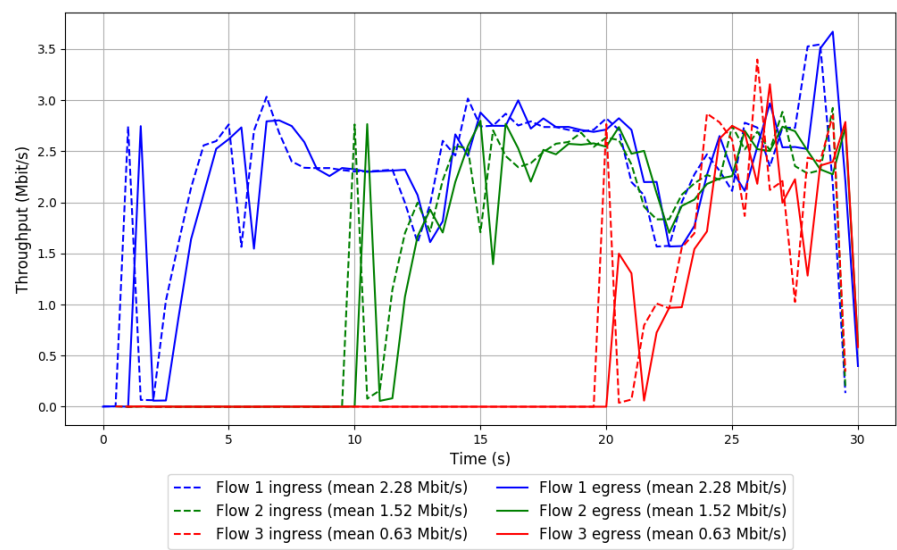
Average throughput: 0.63 Mbit/s

95th percentile per-packet one-way delay: 50.806 ms

Loss rate: 0.00%



Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-07-01 17:09:54

End at: 2018-07-01 17:10:24

Local clock offset: -0.27 ms

Remote clock offset: 0.013 ms

# Below is generated by plot.py at 2018-07-01 22:54:26

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.92 Mbit/s

95th percentile per-packet one-way delay: 51.235 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.08 Mbit/s

95th percentile per-packet one-way delay: 51.097 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.31 Mbit/s

95th percentile per-packet one-way delay: 51.185 ms

Loss rate: 0.00%

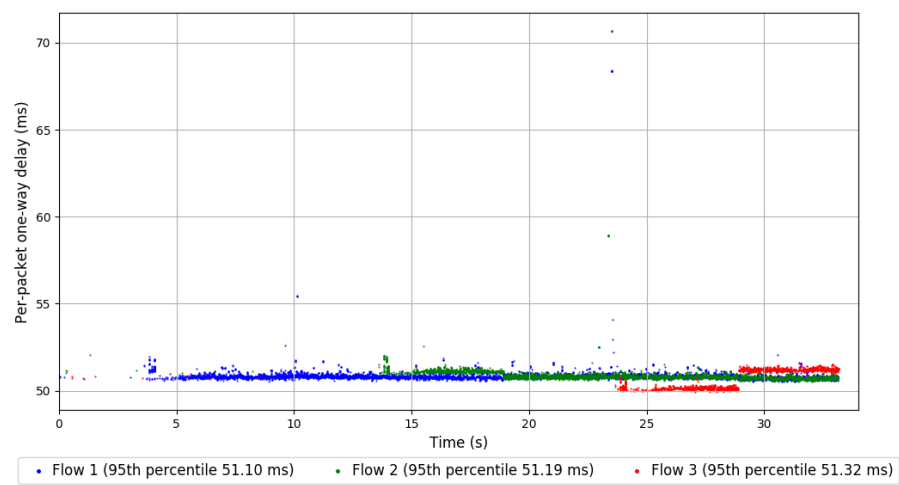
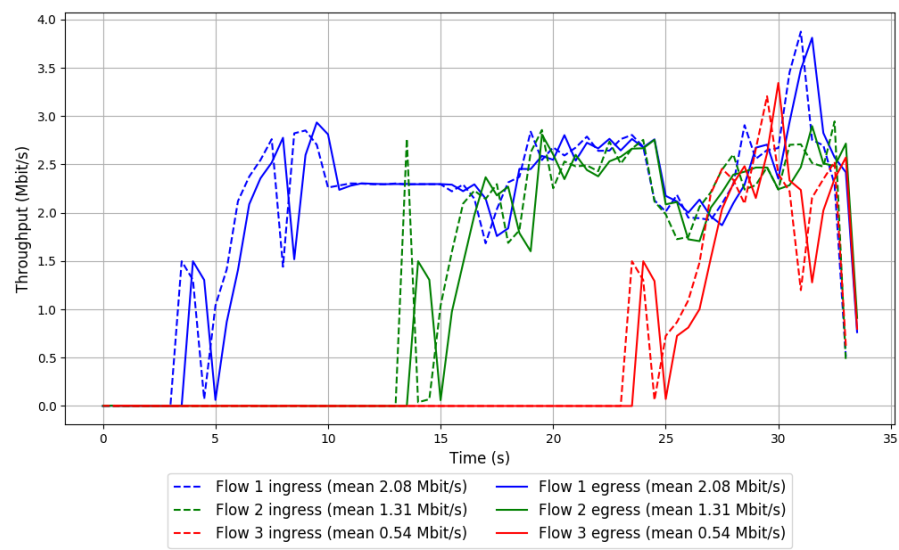
-- Flow 3:

Average throughput: 0.54 Mbit/s

95th percentile per-packet one-way delay: 51.318 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link

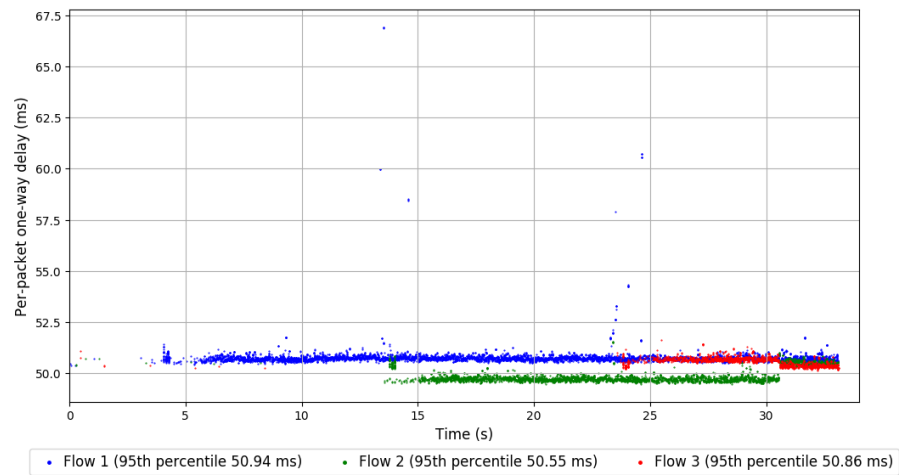
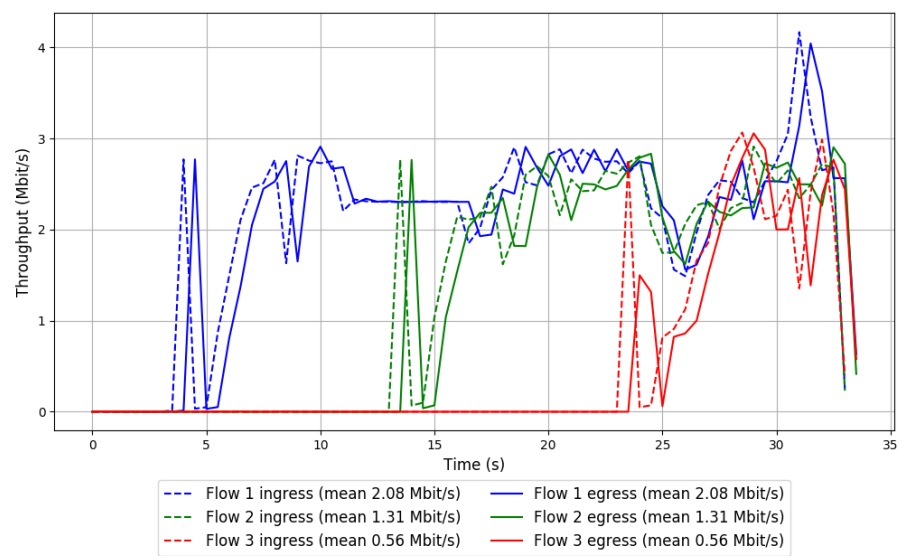


Run 3: Statistics of WebRTC media

Start at: 2018-07-01 17:34:03  
End at: 2018-07-01 17:34:33  
Local clock offset: 0.094 ms  
Remote clock offset: -0.074 ms

# Below is generated by plot.py at 2018-07-01 22:54:26  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 3.93 Mbit/s  
95th percentile per-packet one-way delay: 50.896 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 2.08 Mbit/s  
95th percentile per-packet one-way delay: 50.940 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 1.31 Mbit/s  
95th percentile per-packet one-way delay: 50.551 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.56 Mbit/s  
95th percentile per-packet one-way delay: 50.857 ms  
Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link

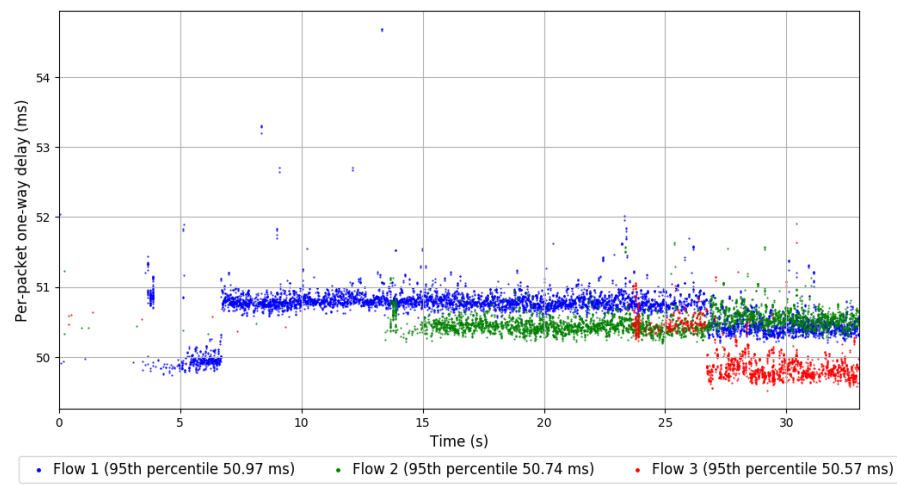
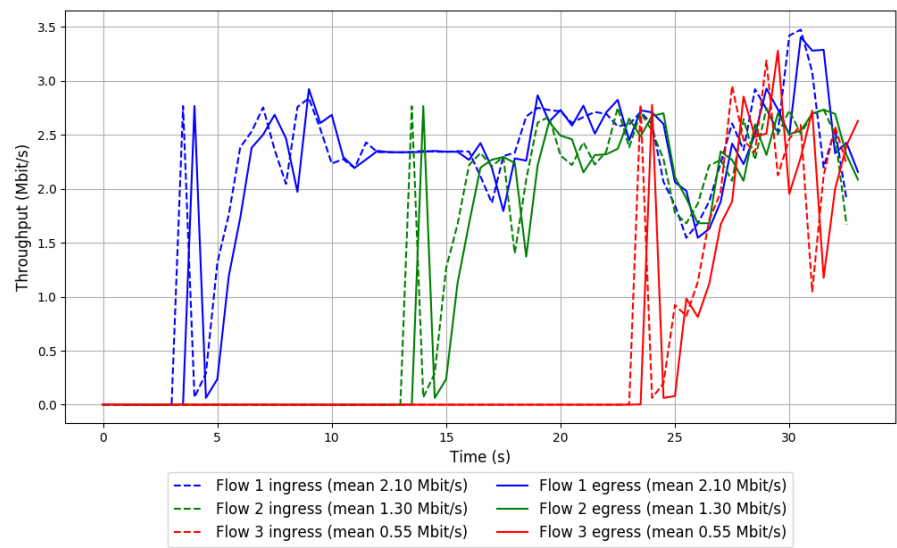


Run 4: Statistics of WebRTC media

Start at: 2018-07-01 17:58:06  
End at: 2018-07-01 17:58:36  
Local clock offset: 0.068 ms  
Remote clock offset: -0.103 ms

# Below is generated by plot.py at 2018-07-01 22:54:26  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 3.93 Mbit/s  
95th percentile per-packet one-way delay: 50.924 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 2.10 Mbit/s  
95th percentile per-packet one-way delay: 50.967 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 1.30 Mbit/s  
95th percentile per-packet one-way delay: 50.742 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.55 Mbit/s  
95th percentile per-packet one-way delay: 50.568 ms  
Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



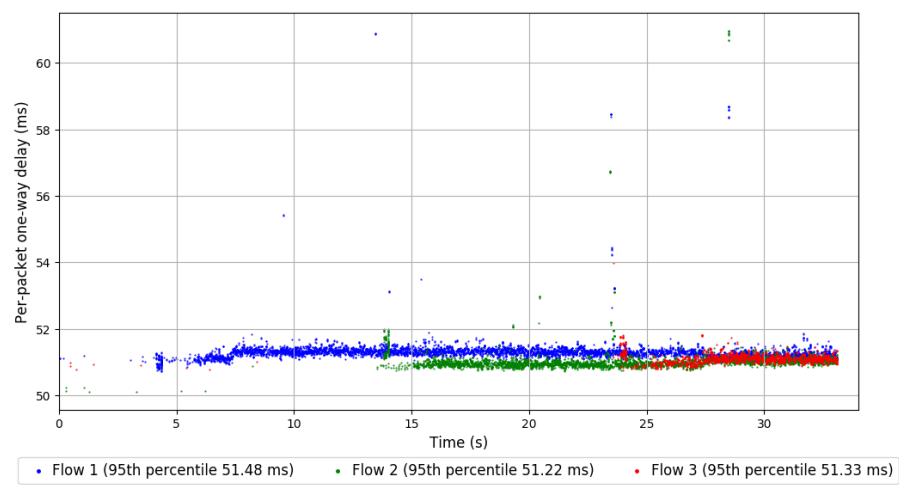
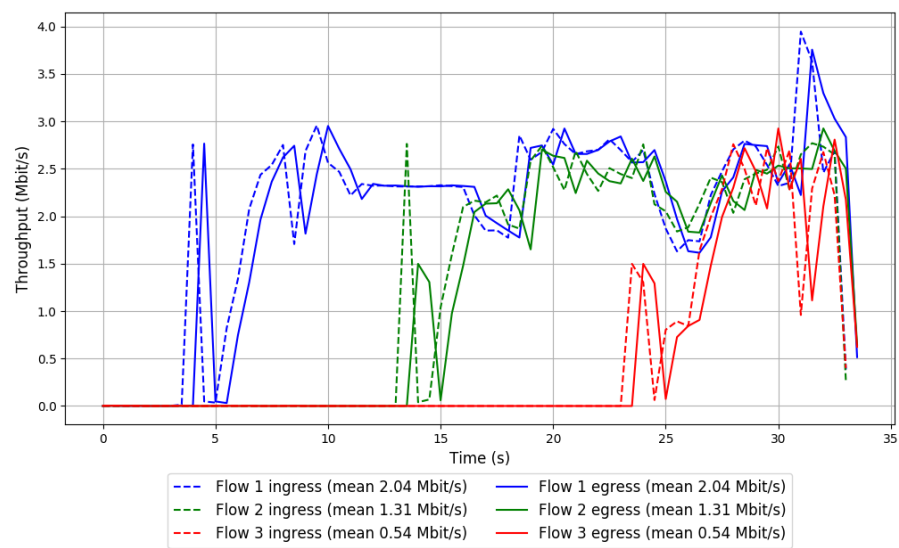
Run 5: Statistics of WebRTC media

Start at: 2018-07-01 18:22:06  
End at: 2018-07-01 18:22:36  
Local clock offset: -0.307 ms  
Remote clock offset: -0.107 ms

# Below is generated by plot.py at 2018-07-01 22:54:26  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 3.87 Mbit/s  
95th percentile per-packet one-way delay: 51.445 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 2.04 Mbit/s  
95th percentile per-packet one-way delay: 51.477 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 1.31 Mbit/s  
95th percentile per-packet one-way delay: 51.219 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.54 Mbit/s  
95th percentile per-packet one-way delay: 51.328 ms  
Loss rate: 0.00%



Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-07-01 18:46:09

End at: 2018-07-01 18:46:39

Local clock offset: 0.024 ms

Remote clock offset: 0.027 ms

# Below is generated by plot.py at 2018-07-01 22:54:26

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.84 Mbit/s

95th percentile per-packet one-way delay: 50.728 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.05 Mbit/s

95th percentile per-packet one-way delay: 50.781 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.28 Mbit/s

95th percentile per-packet one-way delay: 50.177 ms

Loss rate: 0.00%

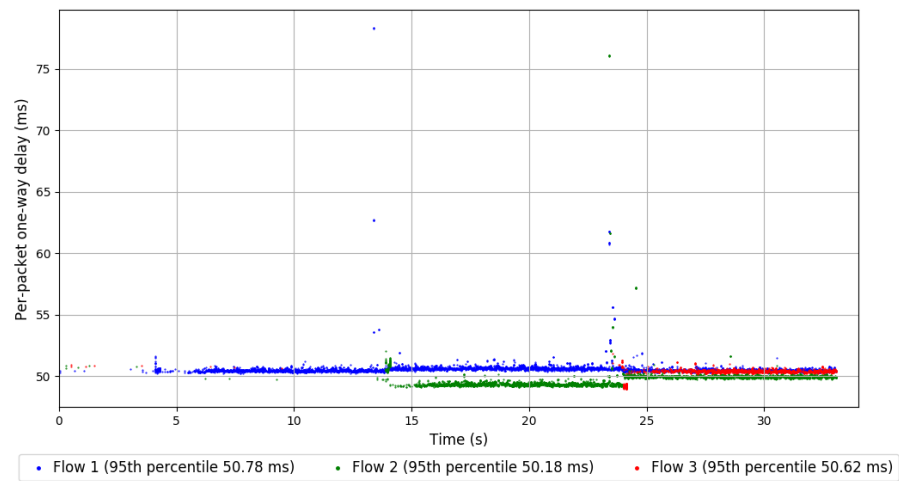
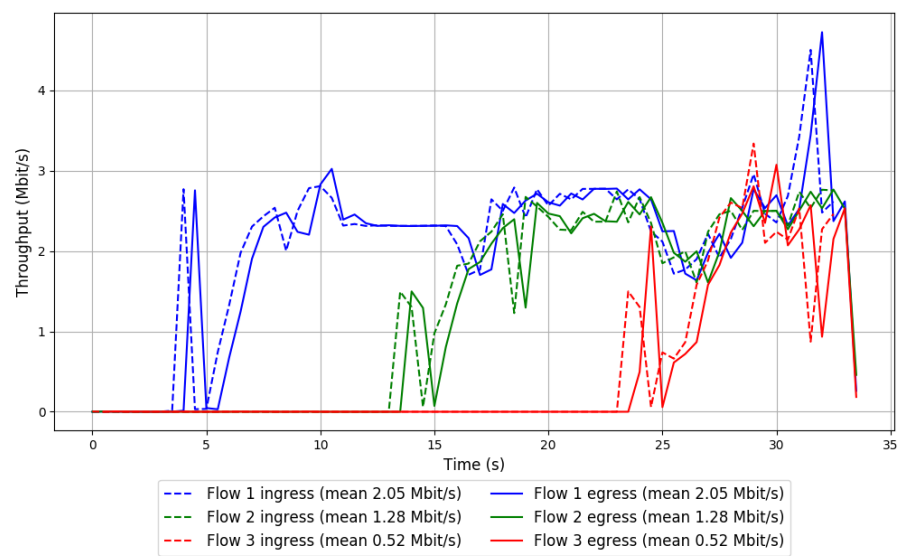
-- Flow 3:

Average throughput: 0.52 Mbit/s

95th percentile per-packet one-way delay: 50.616 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link

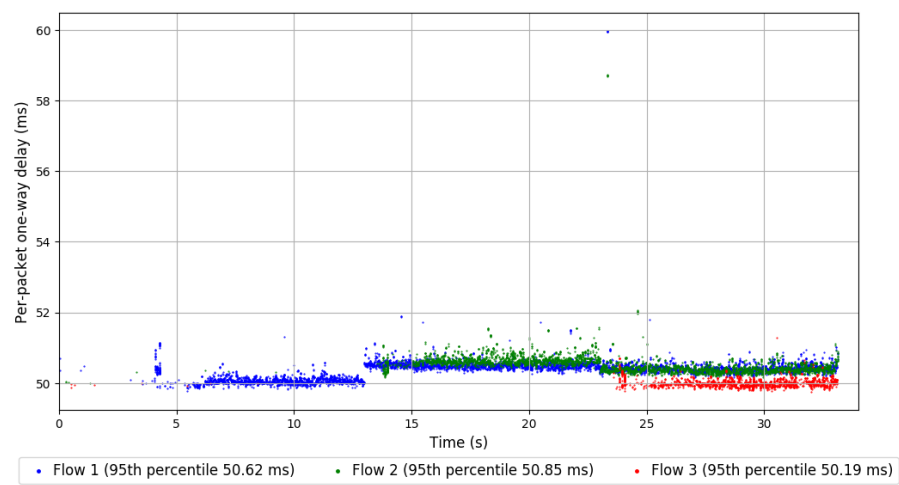
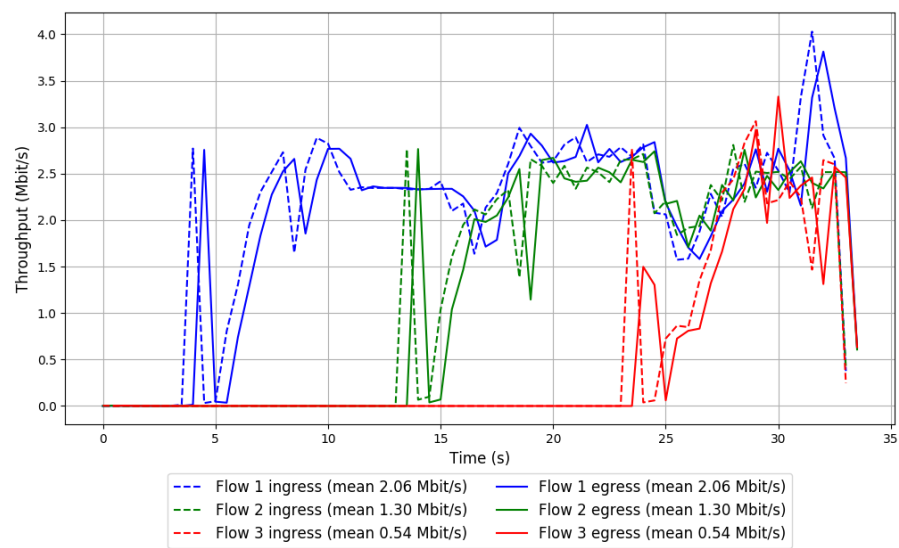


Run 7: Statistics of WebRTC media

Start at: 2018-07-01 19:10:10  
End at: 2018-07-01 19:10:40  
Local clock offset: 0.529 ms  
Remote clock offset: -0.085 ms

# Below is generated by plot.py at 2018-07-01 22:54:26  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 3.88 Mbit/s  
95th percentile per-packet one-way delay: 50.710 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 2.06 Mbit/s  
95th percentile per-packet one-way delay: 50.625 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 1.30 Mbit/s  
95th percentile per-packet one-way delay: 50.846 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.54 Mbit/s  
95th percentile per-packet one-way delay: 50.194 ms  
Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link

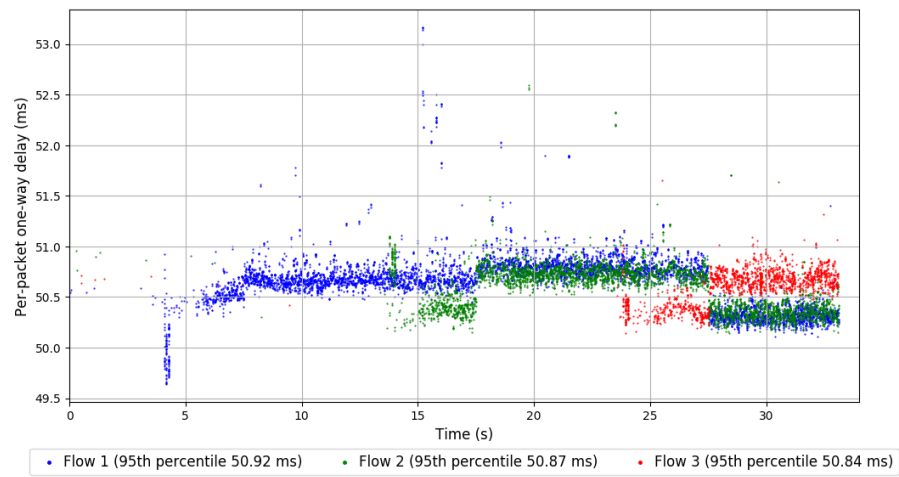
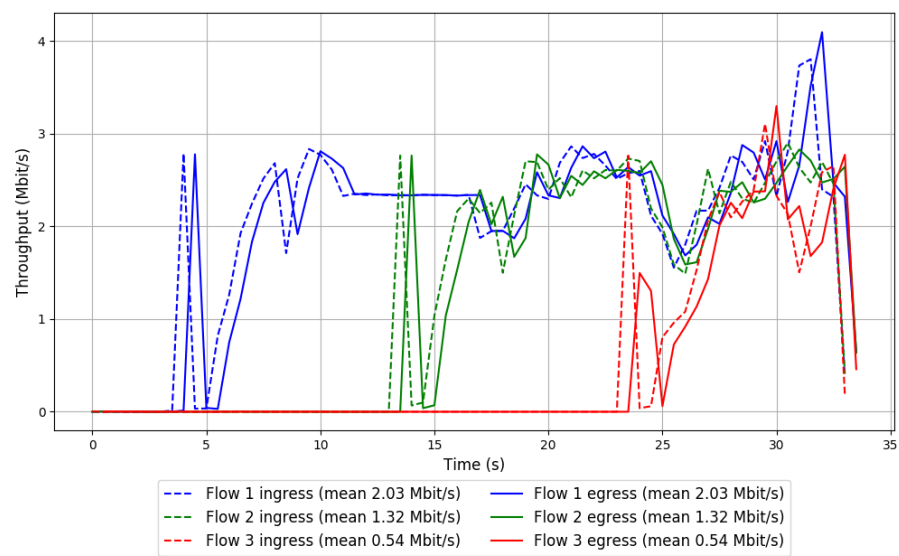


Run 8: Statistics of WebRTC media

Start at: 2018-07-01 19:34:16  
End at: 2018-07-01 19:34:46  
Local clock offset: 0.138 ms  
Remote clock offset: -0.068 ms

# Below is generated by plot.py at 2018-07-01 22:54:26  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 3.86 Mbit/s  
95th percentile per-packet one-way delay: 50.895 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 2.03 Mbit/s  
95th percentile per-packet one-way delay: 50.925 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 1.32 Mbit/s  
95th percentile per-packet one-way delay: 50.865 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.54 Mbit/s  
95th percentile per-packet one-way delay: 50.843 ms  
Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-07-01 19:58:35

End at: 2018-07-01 19:59:05

Local clock offset: 0.2 ms

Remote clock offset: 0.009 ms

# Below is generated by plot.py at 2018-07-01 22:54:26

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.88 Mbit/s

95th percentile per-packet one-way delay: 50.782 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.04 Mbit/s

95th percentile per-packet one-way delay: 50.501 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.30 Mbit/s

95th percentile per-packet one-way delay: 50.842 ms

Loss rate: 0.00%

-- Flow 3:

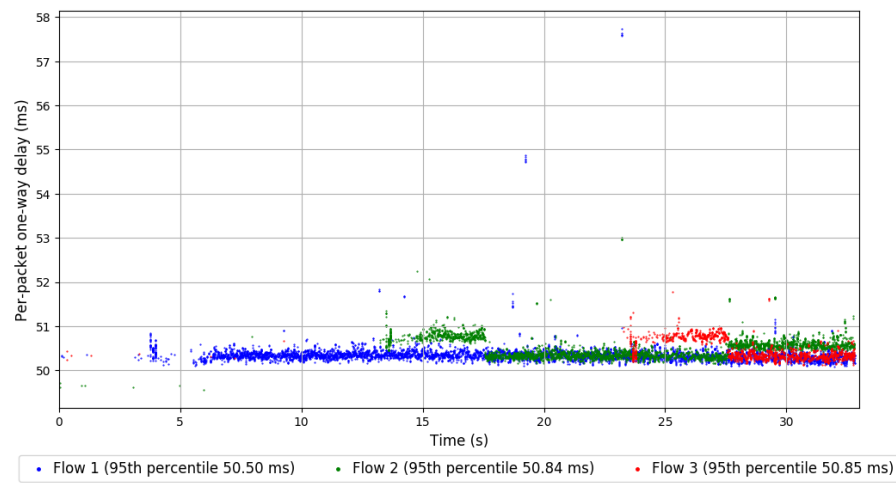
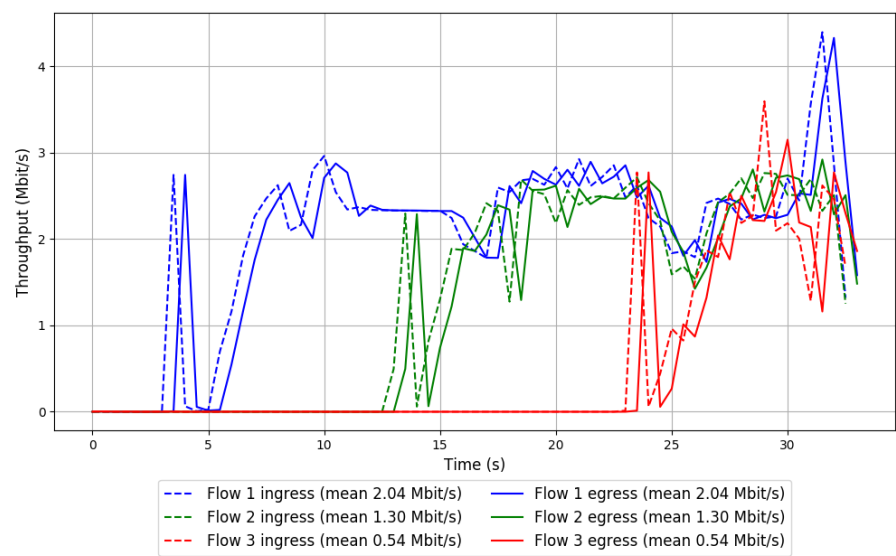
Average throughput: 0.54 Mbit/s

95th percentile per-packet one-way delay: 50.855 ms

Loss rate: 0.00%



Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-07-01 20:22:55  
End at: 2018-07-01 20:23:25  
Local clock offset: -0.248 ms  
Remote clock offset: -0.003 ms

# Below is generated by plot.py at 2018-07-01 22:54:26  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 3.90 Mbit/s  
95th percentile per-packet one-way delay: 51.556 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 2.09 Mbit/s  
95th percentile per-packet one-way delay: 51.606 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 1.31 Mbit/s  
95th percentile per-packet one-way delay: 51.371 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.52 Mbit/s  
95th percentile per-packet one-way delay: 50.758 ms  
Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

