

## Pantheon Report

Generated at 2018-07-20 14:18:20 (UTC).

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

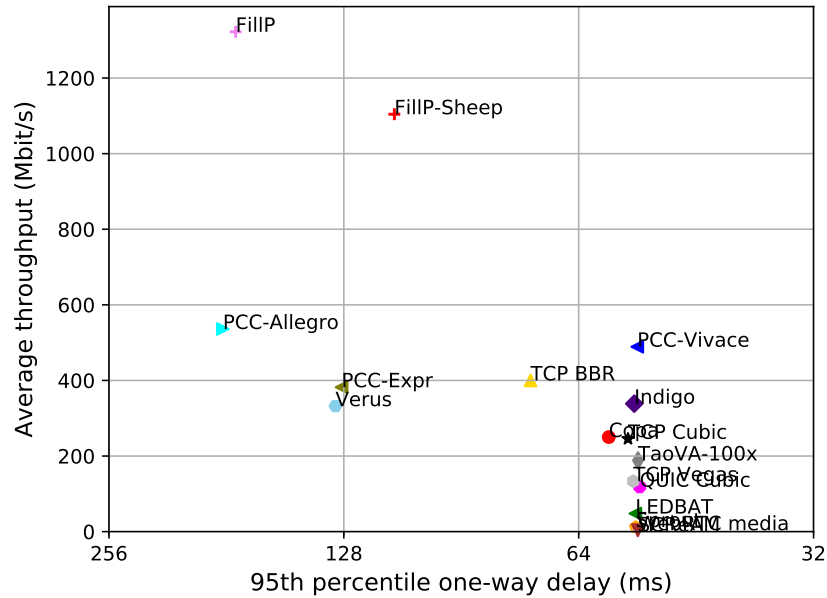
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

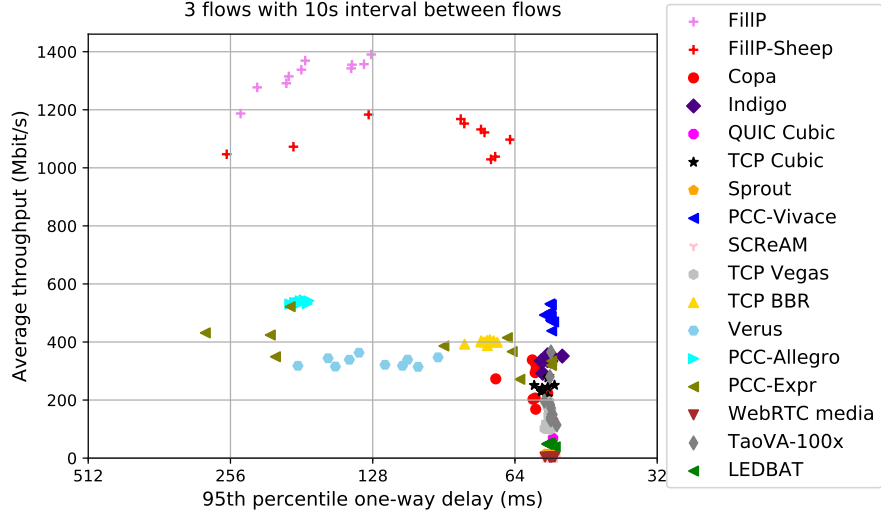
Git summary:

```
branch: master @ f7befc2d8410f41949e0ad8143a9aab40bab7edb
third_party/fillp @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/fillp-sheep @ daed0c84f98531712514b2231f43ec6901114ffe
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 Sydney to GCE Tokyo, 10 runs of 30s each per scheme  
 3 flows with 10s interval between flows (mean of all runs by scheme)



test from GCE Sydney to GCE Tokyo, 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     | 206.03                 | 197.45 | 188.54 | 71.93                     | 73.85  | 76.25  | 0.05               | 0.07   | 0.14   |
| Copa         | 10     | 158.51                 | 90.13  | 102.34 | 59.02                     | 55.89  | 59.70  | 0.01               | 0.02   | 0.04   |
| TCP Cubic    | 10     | 138.74                 | 137.34 | 46.12  | 55.32                     | 55.37  | 53.84  | 0.00               | 0.00   | 0.09   |
| FillP        | 10     | 711.13                 | 643.73 | 552.27 | 169.59                    | 185.26 | 116.98 | 1.51               | 1.20   | 0.37   |
| FillP-Sheep  | 10     | 592.52                 | 541.10 | 459.15 | 111.68                    | 105.40 | 75.31  | 0.04               | 0.04   | 0.10   |
| Indigo       | 10     | 180.61                 | 169.46 | 140.09 | 54.00                     | 54.32  | 54.97  | 0.00               | 0.00   | 0.01   |
| LEDBAT       | 10     | 31.19                  | 20.06  | 10.12  | 54.15                     | 53.97  | 53.35  | 0.00               | 0.00   | 0.00   |
| PCC-Allegro  | 10     | 495.40                 | 50.76  | 21.27  | 182.91                    | 182.98 | 156.28 | 1.44               | 1.29   | 1.09   |
| PCC-Expr     | 10     | 266.05                 | 149.26 | 50.42  | 134.08                    | 96.31  | 94.09  | 3.75               | 1.97   | 2.25   |
| QUIC Cubic   | 10     | 60.87                  | 60.53  | 53.99  | 52.75                     | 52.79  | 52.50  | 0.00               | 0.00   | 0.01   |
| SCReAM       | 10     | 0.21                   | 0.21   | 0.22   | 53.35                     | 52.74  | 53.09  | 0.00               | 0.00   | 0.00   |
| Sprout       | 10     | 6.78                   | 5.88   | 4.47   | 54.08                     | 54.05  | 54.33  | 0.00               | 0.00   | 0.26   |
| TaoVA-100x   | 10     | 101.13                 | 108.89 | 103.66 | 53.62                     | 53.75  | 53.84  | 0.00               | 0.01   | 0.04   |
| TCP Vegas    | 10     | 64.27                  | 74.91  | 58.15  | 54.36                     | 54.25  | 54.18  | 0.00               | 0.00   | 0.04   |
| Verus        | 10     | 192.81                 | 159.60 | 104.14 | 122.16                    | 131.08 | 145.50 | 0.35               | 0.46   | 1.02   |
| PCC-Vivace   | 10     | 291.20                 | 255.88 | 84.07  | 53.44                     | 54.06  | 53.23  | 0.00               | 0.00   | 0.01   |
| WebRTC media | 10     | 2.04                   | 1.29   | 0.52   | 52.42                     | 52.53  | 53.43  | 0.00               | 0.00   | 0.00   |

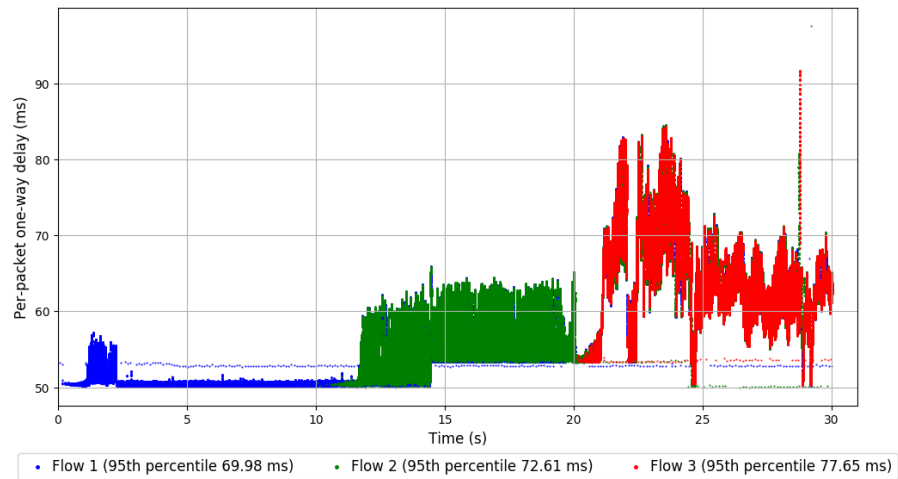
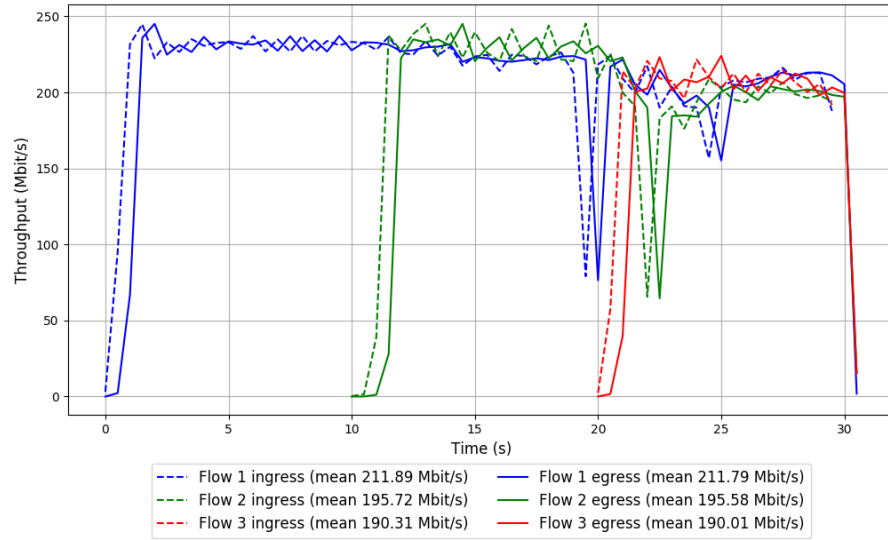
Run 1: Statistics of TCP BBR

Start at: 2018-07-20 07:26:12  
End at: 2018-07-20 07:26:42  
Local clock offset: -0.143 ms  
Remote clock offset: -0.199 ms

# Below is generated by plot.py at 2018-07-20 11:40:46  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 405.22 Mbit/s  
95th percentile per-packet one-way delay: 73.340 ms  
Loss rate: 0.06%  
-- Flow 1:  
Average throughput: 211.79 Mbit/s  
95th percentile per-packet one-way delay: 69.982 ms  
Loss rate: 0.05%  
-- Flow 2:  
Average throughput: 195.58 Mbit/s  
95th percentile per-packet one-way delay: 72.610 ms  
Loss rate: 0.01%  
-- Flow 3:  
Average throughput: 190.01 Mbit/s  
95th percentile per-packet one-way delay: 77.647 ms  
Loss rate: 0.17%



## Run 1: Report of TCP BBR — Data Link

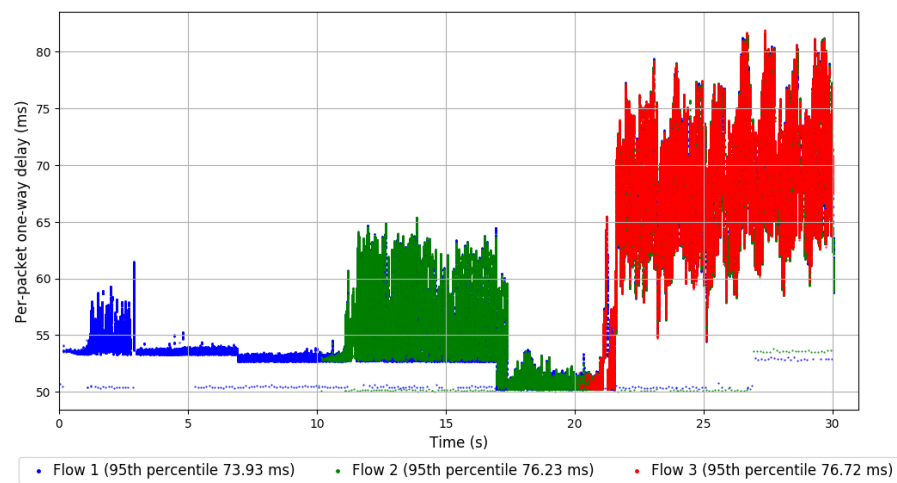
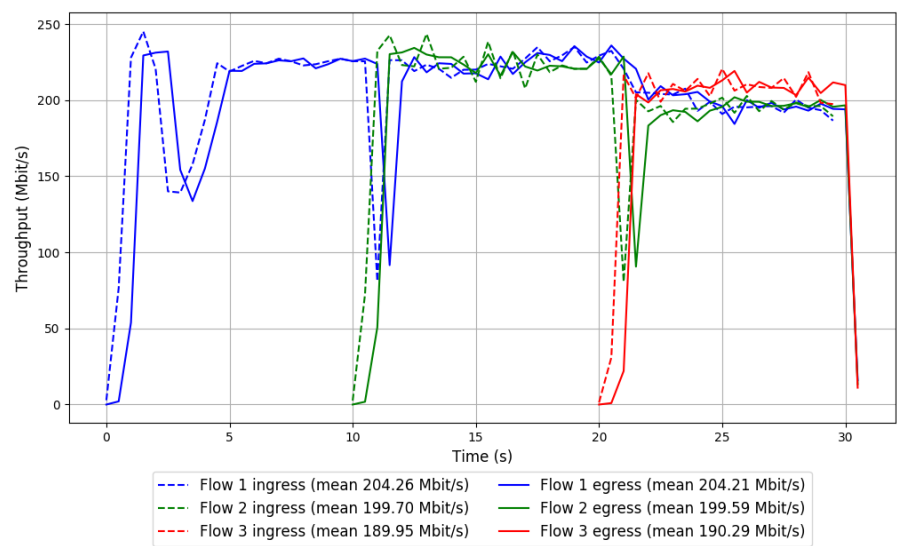


Run 2: Statistics of TCP BBR

Start at: 2018-07-20 07:51:20  
End at: 2018-07-20 07:51:50  
Local clock offset: -0.035 ms  
Remote clock offset: -0.163 ms

# Below is generated by plot.py at 2018-07-20 11:40:46  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 400.17 Mbit/s  
95th percentile per-packet one-way delay: 75.551 ms  
Loss rate: 0.04%  
-- Flow 1:  
Average throughput: 204.21 Mbit/s  
95th percentile per-packet one-way delay: 73.929 ms  
Loss rate: 0.03%  
-- Flow 2:  
Average throughput: 199.59 Mbit/s  
95th percentile per-packet one-way delay: 76.228 ms  
Loss rate: 0.06%  
-- Flow 3:  
Average throughput: 190.29 Mbit/s  
95th percentile per-packet one-way delay: 76.722 ms  
Loss rate: 0.04%

Run 2: Report of TCP BBR — Data Link

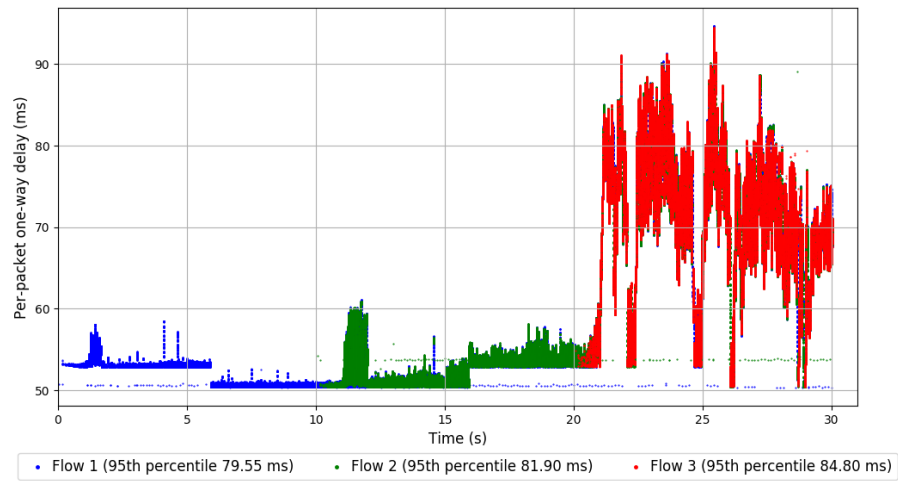
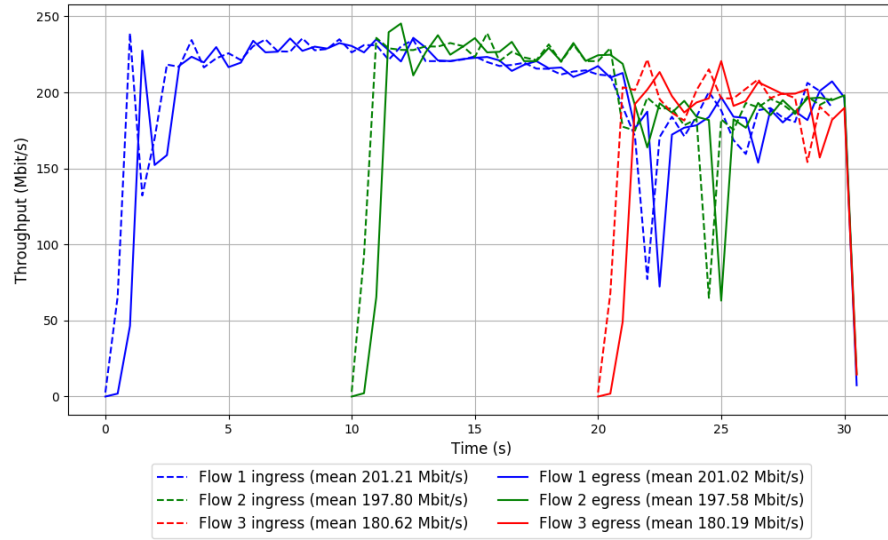


Run 3: Statistics of TCP BBR

Start at: 2018-07-20 08:16:11  
End at: 2018-07-20 08:16:41  
Local clock offset: -0.013 ms  
Remote clock offset: -0.057 ms

# Below is generated by plot.py at 2018-07-20 11:40:46  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 392.56 Mbit/s  
95th percentile per-packet one-way delay: 81.796 ms  
Loss rate: 0.11%  
-- Flow 1:  
Average throughput: 201.02 Mbit/s  
95th percentile per-packet one-way delay: 79.553 ms  
Loss rate: 0.09%  
-- Flow 2:  
Average throughput: 197.58 Mbit/s  
95th percentile per-packet one-way delay: 81.897 ms  
Loss rate: 0.08%  
-- Flow 3:  
Average throughput: 180.19 Mbit/s  
95th percentile per-packet one-way delay: 84.801 ms  
Loss rate: 0.24%

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



Run 4: Statistics of TCP BBR

Start at: 2018-07-20 08:41:20

End at: 2018-07-20 08:41:50

Local clock offset: 0.21 ms

Remote clock offset: -1.41 ms

# Below is generated by plot.py at 2018-07-20 11:40:46

# Datalink statistics

-- Total of 3 flows:

Average throughput: 388.20 Mbit/s

95th percentile per-packet one-way delay: 73.215 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 203.71 Mbit/s

95th percentile per-packet one-way delay: 71.294 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 189.74 Mbit/s

95th percentile per-packet one-way delay: 73.266 ms

Loss rate: 0.06%

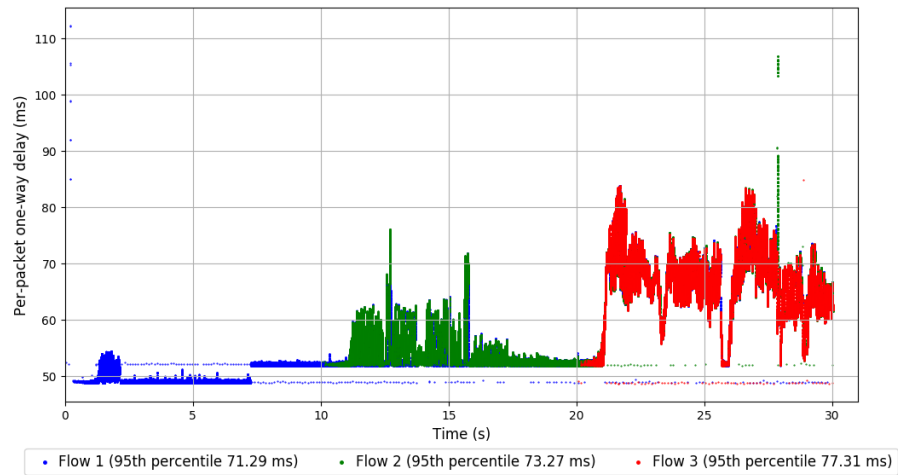
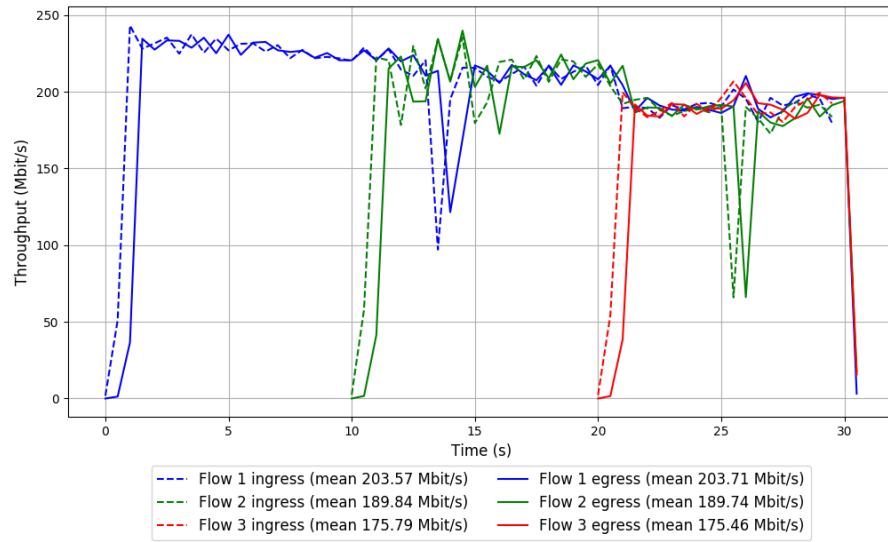
-- Flow 3:

Average throughput: 175.46 Mbit/s

95th percentile per-packet one-way delay: 77.309 ms

Loss rate: 0.15%

# Run 4: Report of TCP BBR — Data Link



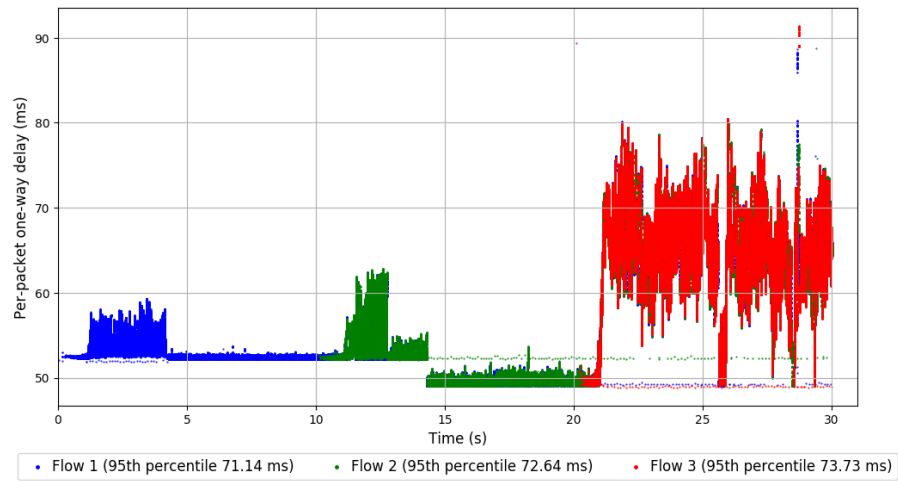
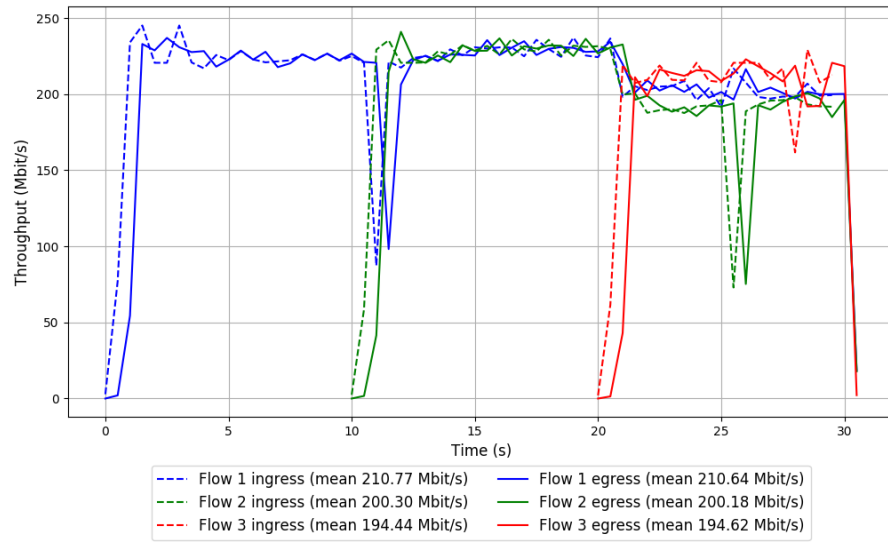
Run 5: Statistics of TCP BBR

Start at: 2018-07-20 09:06:02  
End at: 2018-07-20 09:06:32  
Local clock offset: 0.112 ms  
Remote clock offset: -1.194 ms

# Below is generated by plot.py at 2018-07-20 11:40:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 408.30 Mbit/s  
95th percentile per-packet one-way delay: 72.344 ms  
Loss rate: 0.10%  
-- Flow 1:  
Average throughput: 210.64 Mbit/s  
95th percentile per-packet one-way delay: 71.135 ms  
Loss rate: 0.07%  
-- Flow 2:  
Average throughput: 200.18 Mbit/s  
95th percentile per-packet one-way delay: 72.637 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 194.62 Mbit/s  
95th percentile per-packet one-way delay: 73.726 ms  
Loss rate: 0.43%



# Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-07-20 09:31:20

End at: 2018-07-20 09:31:50

Local clock offset: -0.008 ms

Remote clock offset: 0.081 ms

# Below is generated by plot.py at 2018-07-20 11:40:49

# Datalink statistics

-- Total of 3 flows:

Average throughput: 400.01 Mbit/s

95th percentile per-packet one-way delay: 74.317 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 198.75 Mbit/s

95th percentile per-packet one-way delay: 73.180 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 206.22 Mbit/s

95th percentile per-packet one-way delay: 74.034 ms

Loss rate: 0.05%

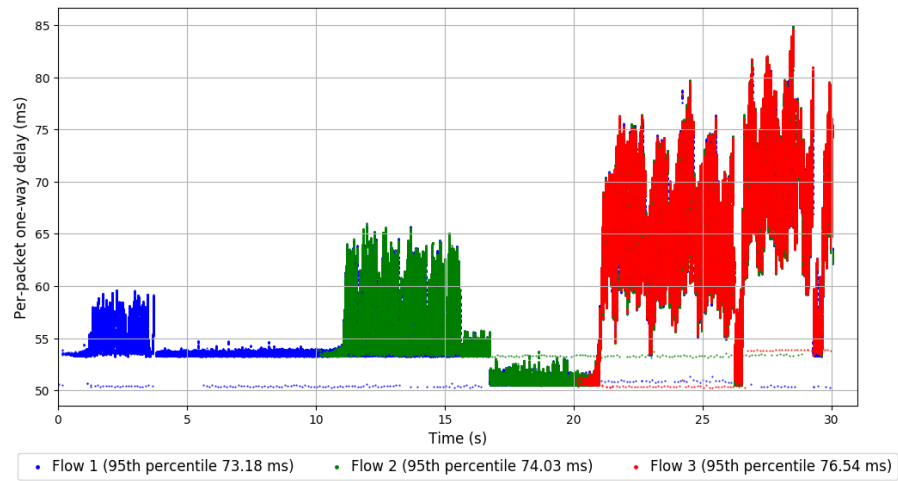
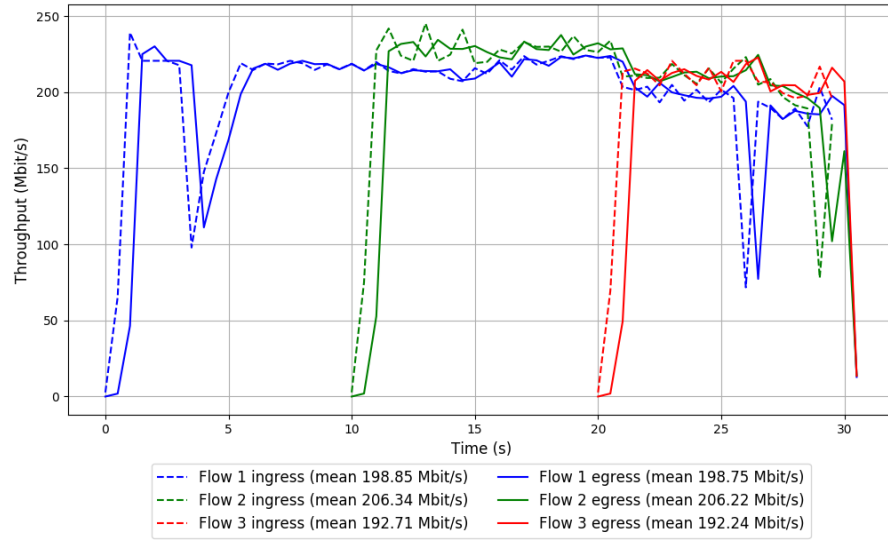
-- Flow 3:

Average throughput: 192.24 Mbit/s

95th percentile per-packet one-way delay: 76.542 ms

Loss rate: 0.00%

# Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-07-20 09:56:28

End at: 2018-07-20 09:56:58

Local clock offset: -0.164 ms

Remote clock offset: 0.039 ms

# Below is generated by plot.py at 2018-07-20 11:40:49

# Datalink statistics

-- Total of 3 flows:

Average throughput: 399.32 Mbit/s

95th percentile per-packet one-way delay: 71.014 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 207.57 Mbit/s

95th percentile per-packet one-way delay: 69.431 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 194.50 Mbit/s

95th percentile per-packet one-way delay: 70.994 ms

Loss rate: 0.09%

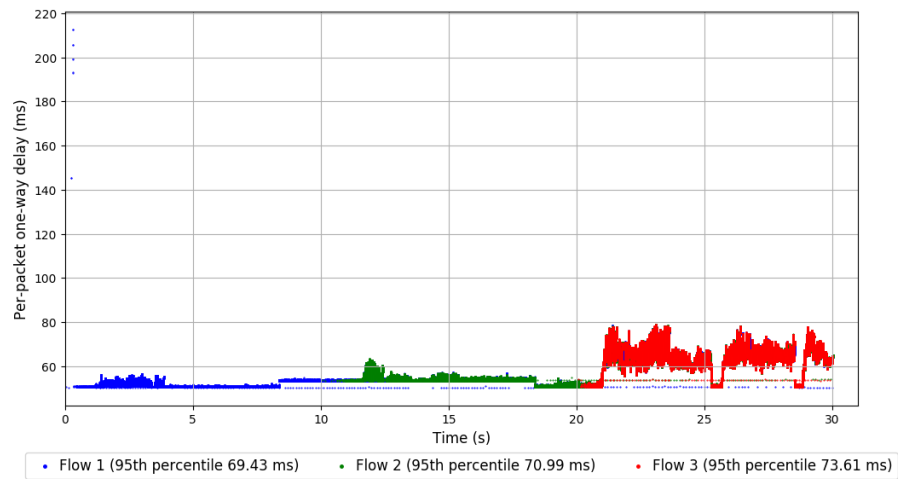
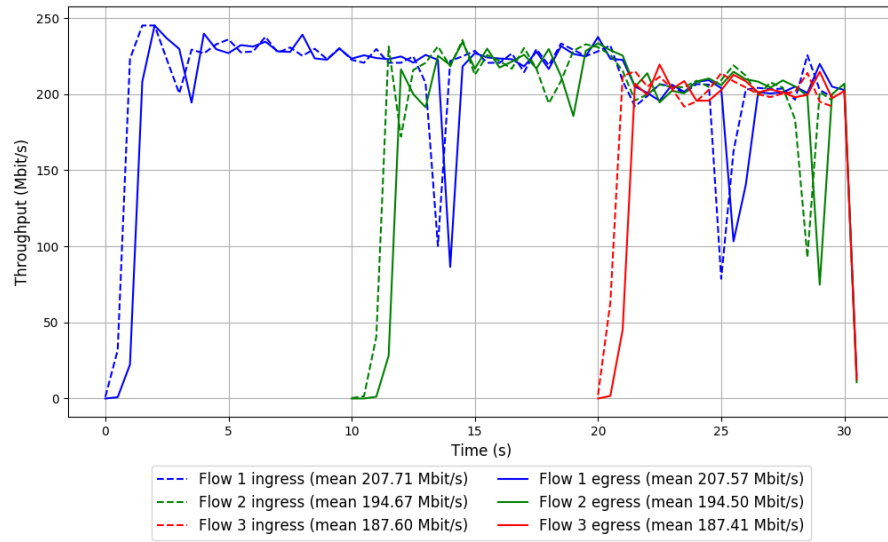
-- Flow 3:

Average throughput: 187.41 Mbit/s

95th percentile per-packet one-way delay: 73.608 ms

Loss rate: 0.00%

## Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-07-20 10:21:25

End at: 2018-07-20 10:21:55

Local clock offset: -0.211 ms

Remote clock offset: 0.072 ms

# Below is generated by plot.py at 2018-07-20 11:40:49

# Datalink statistics

-- Total of 3 flows:

Average throughput: 404.09 Mbit/s

95th percentile per-packet one-way delay: 71.035 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 211.42 Mbit/s

95th percentile per-packet one-way delay: 68.468 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 194.36 Mbit/s

95th percentile per-packet one-way delay: 71.253 ms

Loss rate: 0.05%

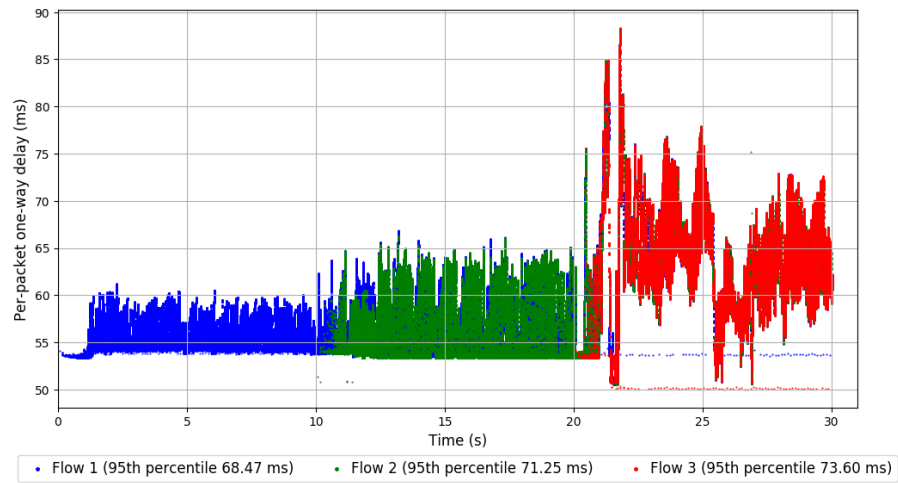
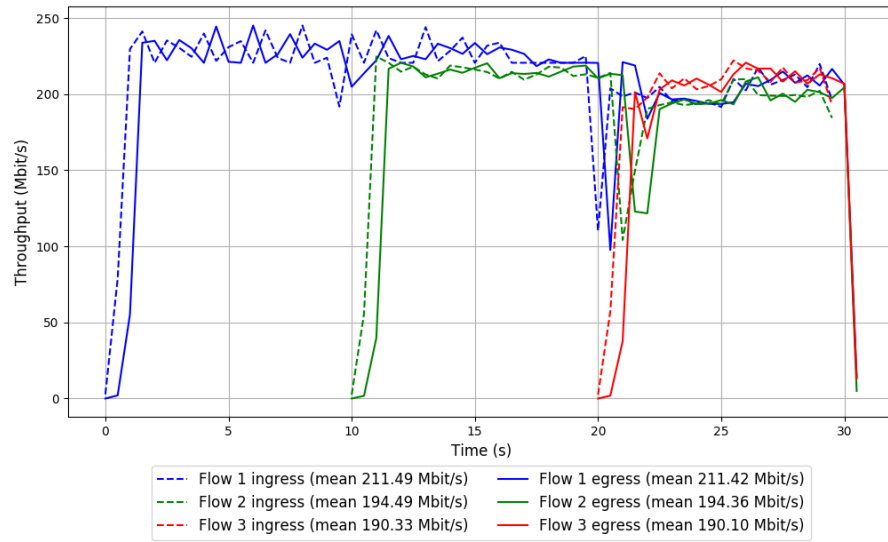
-- Flow 3:

Average throughput: 190.10 Mbit/s

95th percentile per-packet one-way delay: 73.603 ms

Loss rate: 0.11%

# Run 8: Report of TCP BBR — Data Link



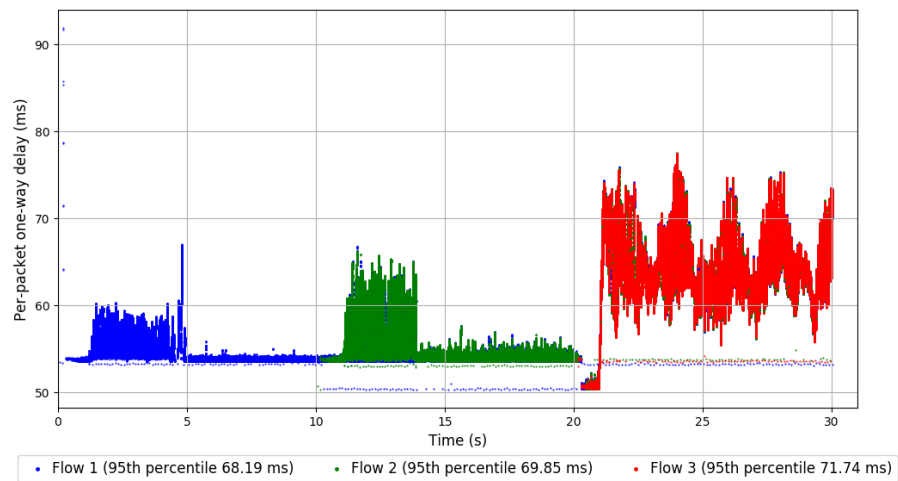
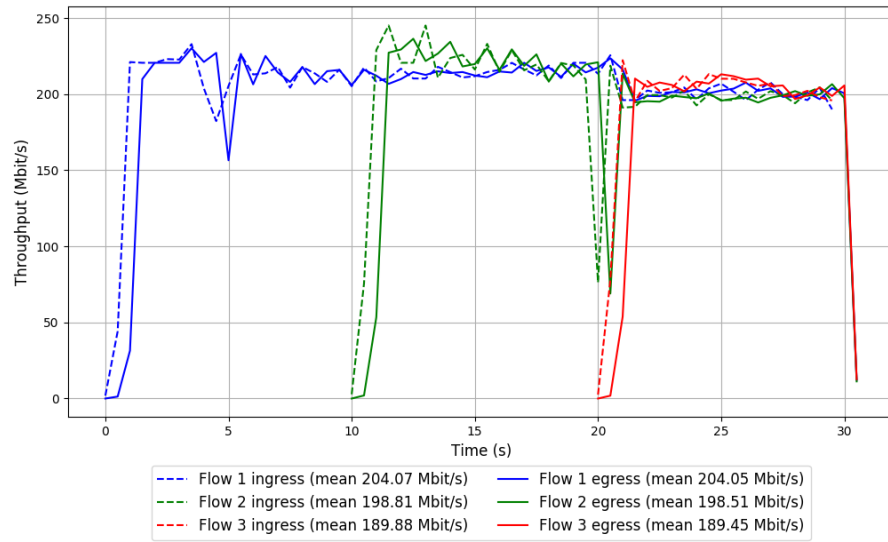
Run 9: Statistics of TCP BBR

Start at: 2018-07-20 10:46:17  
End at: 2018-07-20 10:46:47  
Local clock offset: -0.037 ms  
Remote clock offset: -0.098 ms

# Below is generated by plot.py at 2018-07-20 11:46:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 399.24 Mbit/s  
95th percentile per-packet one-way delay: 69.756 ms  
Loss rate: 0.06%  
-- Flow 1:  
Average throughput: 204.05 Mbit/s  
95th percentile per-packet one-way delay: 68.187 ms  
Loss rate: 0.02%  
-- Flow 2:  
Average throughput: 198.51 Mbit/s  
95th percentile per-packet one-way delay: 69.850 ms  
Loss rate: 0.14%  
-- Flow 3:  
Average throughput: 189.45 Mbit/s  
95th percentile per-packet one-way delay: 71.739 ms  
Loss rate: 0.06%



# Run 9: Report of TCP BBR — Data Link

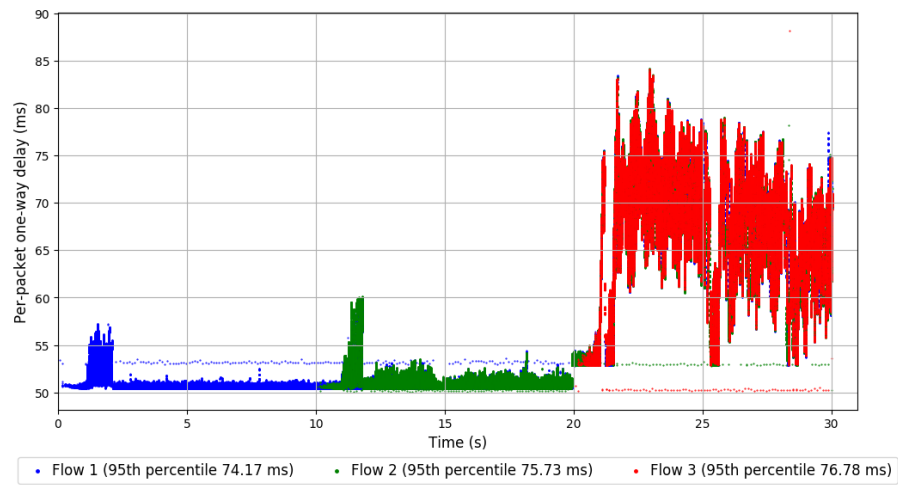
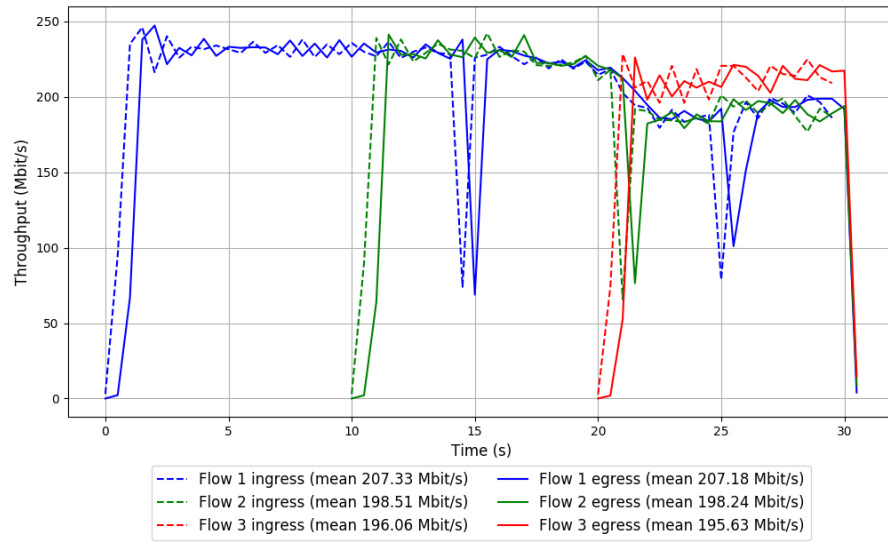


Run 10: Statistics of TCP BBR

Start at: 2018-07-20 11:11:07  
End at: 2018-07-20 11:11:37  
Local clock offset: -0.007 ms  
Remote clock offset: -0.061 ms

# Below is generated by plot.py at 2018-07-20 11:47:03  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 404.23 Mbit/s  
95th percentile per-packet one-way delay: 75.418 ms  
Loss rate: 0.12%  
-- Flow 1:  
Average throughput: 207.18 Mbit/s  
95th percentile per-packet one-way delay: 74.174 ms  
Loss rate: 0.08%  
-- Flow 2:  
Average throughput: 198.24 Mbit/s  
95th percentile per-packet one-way delay: 75.731 ms  
Loss rate: 0.13%  
-- Flow 3:  
Average throughput: 195.63 Mbit/s  
95th percentile per-packet one-way delay: 76.779 ms  
Loss rate: 0.20%

# Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2018-07-20 07:13:39

End at: 2018-07-20 07:14:09

Local clock offset: -0.12 ms

Remote clock offset: 0.085 ms

# Below is generated by plot.py at 2018-07-20 11:47:03

# Datalink statistics

-- Total of 3 flows:

Average throughput: 206.83 Mbit/s

95th percentile per-packet one-way delay: 57.991 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 114.66 Mbit/s

95th percentile per-packet one-way delay: 57.497 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 98.22 Mbit/s

95th percentile per-packet one-way delay: 59.207 ms

Loss rate: 0.00%

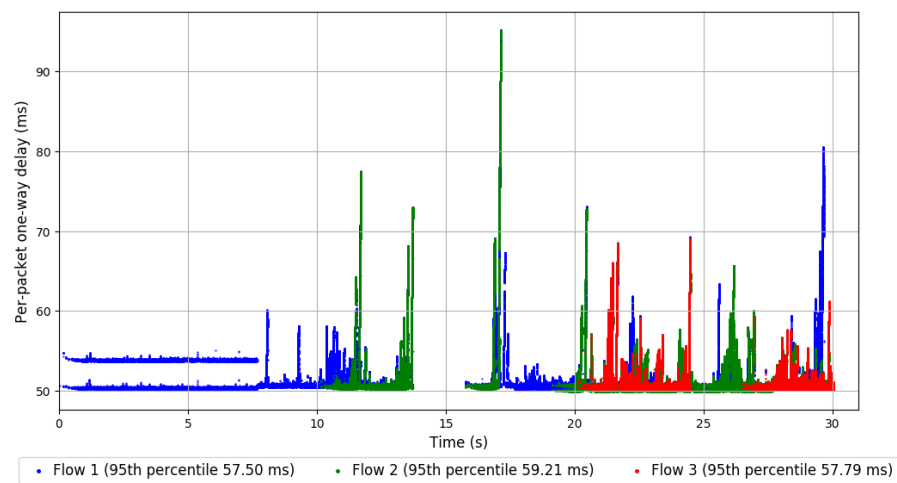
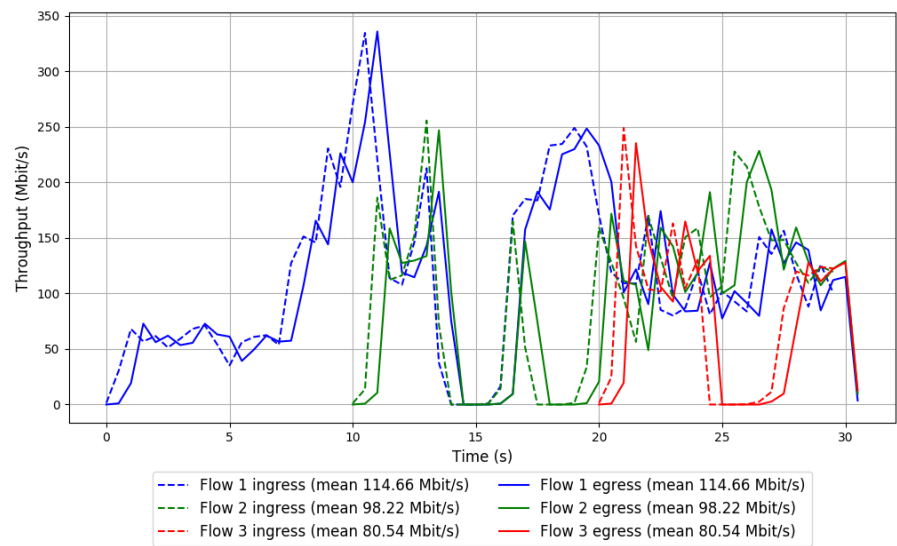
-- Flow 3:

Average throughput: 80.54 Mbit/s

95th percentile per-packet one-way delay: 57.786 ms

Loss rate: 0.00%

Run 1: Report of Copa — Data Link

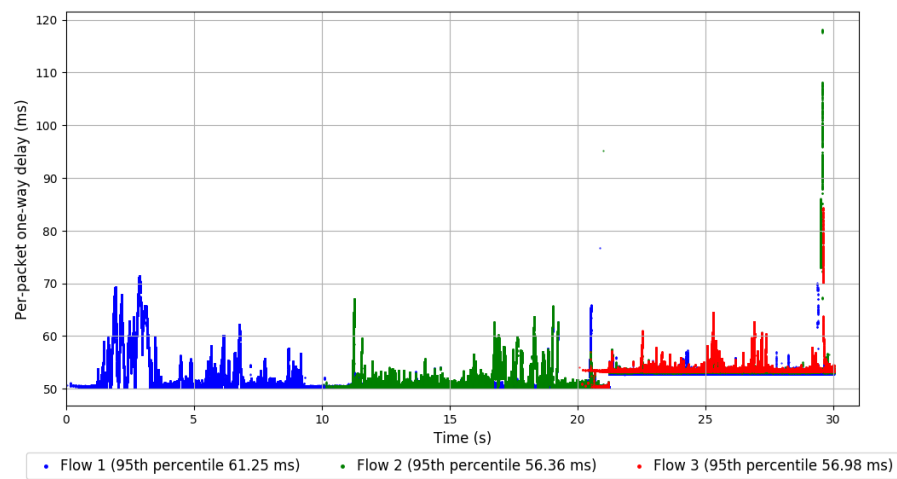
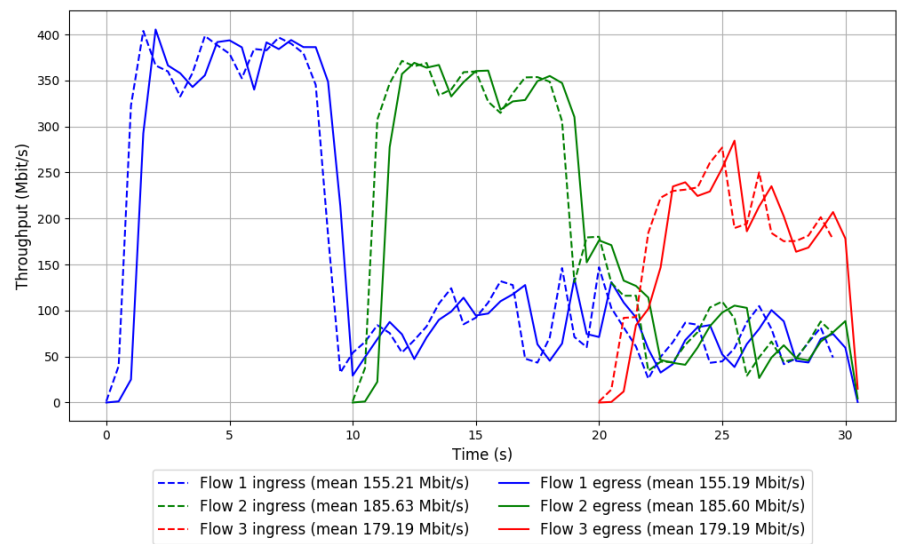


Run 2: Statistics of Copa

Start at: 2018-07-20 07:38:36  
End at: 2018-07-20 07:39:06  
Local clock offset: -0.005 ms  
Remote clock offset: -0.039 ms

# Below is generated by plot.py at 2018-07-20 11:51:20  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 338.32 Mbit/s  
95th percentile per-packet one-way delay: 58.802 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 155.19 Mbit/s  
95th percentile per-packet one-way delay: 61.249 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 185.60 Mbit/s  
95th percentile per-packet one-way delay: 56.364 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 179.19 Mbit/s  
95th percentile per-packet one-way delay: 56.976 ms  
Loss rate: 0.00%

Run 2: Report of Copa — Data Link



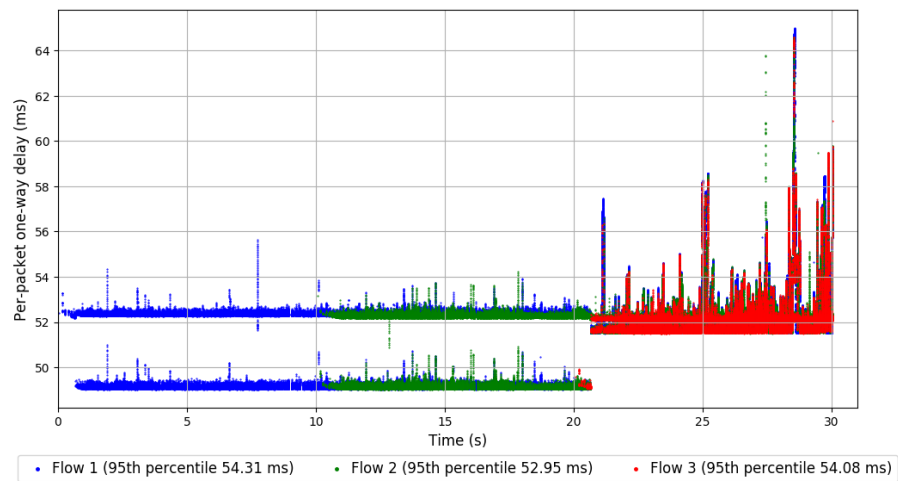
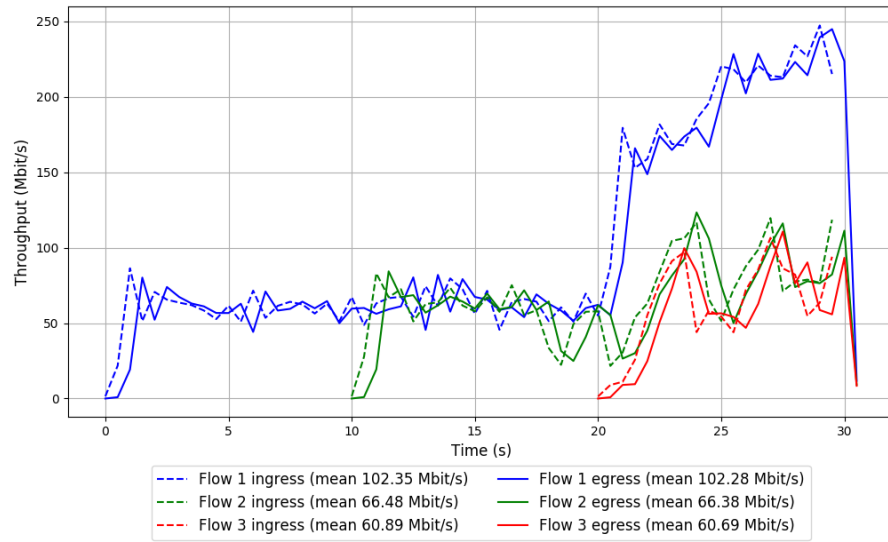
Run 3: Statistics of Copa

Start at: 2018-07-20 08:03:36  
End at: 2018-07-20 08:04:06  
Local clock offset: -0.152 ms  
Remote clock offset: -1.466 ms

# Below is generated by plot.py at 2018-07-20 11:51:20  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 166.65 Mbit/s  
95th percentile per-packet one-way delay: 54.001 ms  
Loss rate: 0.11%  
-- Flow 1:  
Average throughput: 102.28 Mbit/s  
95th percentile per-packet one-way delay: 54.306 ms  
Loss rate: 0.06%  
-- Flow 2:  
Average throughput: 66.38 Mbit/s  
95th percentile per-packet one-way delay: 52.947 ms  
Loss rate: 0.15%  
-- Flow 3:  
Average throughput: 60.69 Mbit/s  
95th percentile per-packet one-way delay: 54.079 ms  
Loss rate: 0.27%



### Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-07-20 08:28:30

End at: 2018-07-20 08:29:00

Local clock offset: -0.066 ms

Remote clock offset: -0.2 ms

# Below is generated by plot.py at 2018-07-20 11:51:20

# Datalink statistics

-- Total of 3 flows:

Average throughput: 322.22 Mbit/s

95th percentile per-packet one-way delay: 57.802 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 205.78 Mbit/s

95th percentile per-packet one-way delay: 58.899 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 100.76 Mbit/s

95th percentile per-packet one-way delay: 54.051 ms

Loss rate: 0.00%

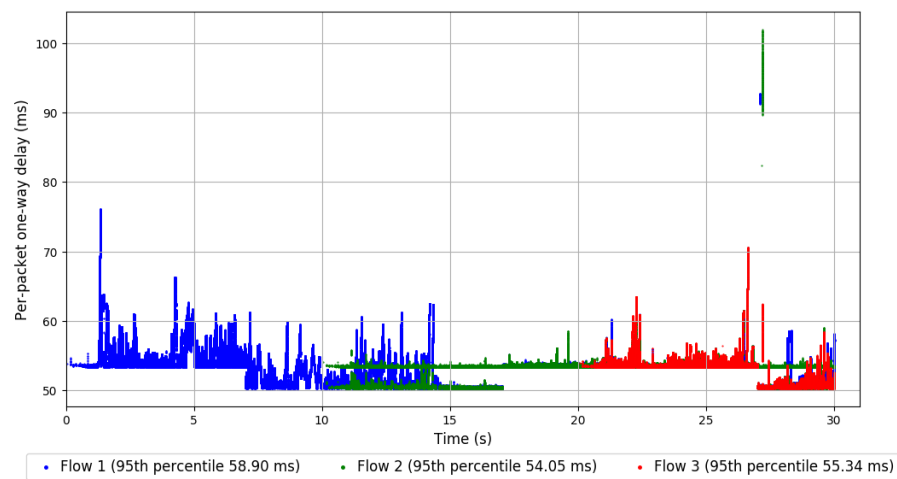
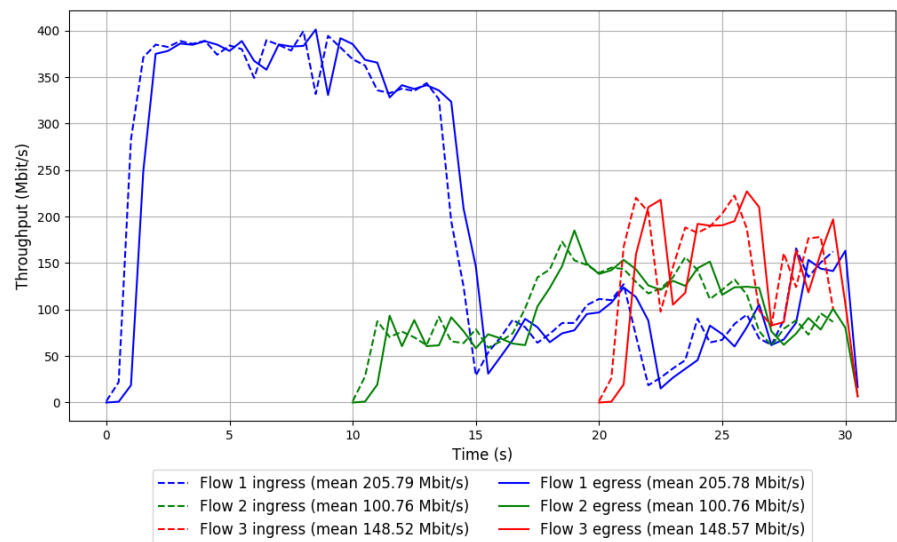
-- Flow 3:

Average throughput: 148.57 Mbit/s

95th percentile per-packet one-way delay: 55.336 ms

Loss rate: 0.00%

Run 4: Report of Copa — Data Link

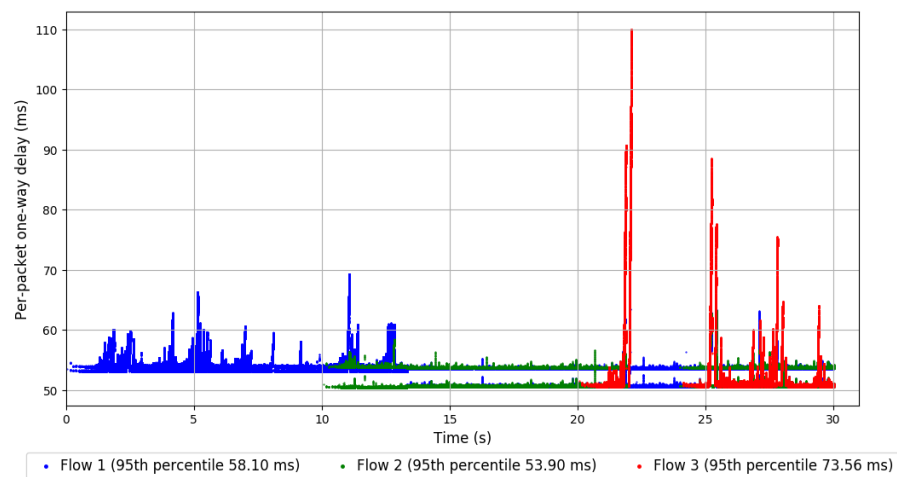
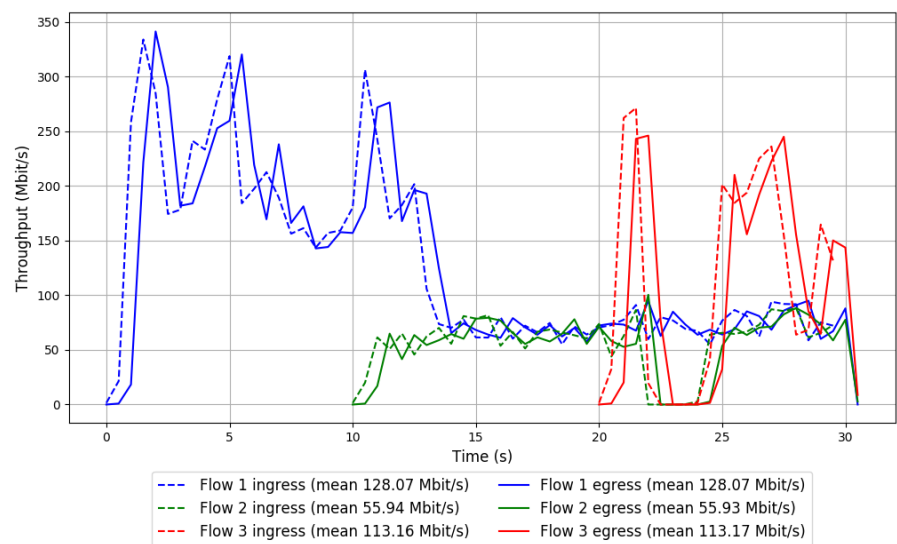


Run 5: Statistics of Copa

Start at: 2018-07-20 08:53:23  
End at: 2018-07-20 08:53:53  
Local clock offset: -0.206 ms  
Remote clock offset: -0.039 ms

# Below is generated by plot.py at 2018-07-20 11:51:20  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 202.81 Mbit/s  
95th percentile per-packet one-way delay: 58.620 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 128.07 Mbit/s  
95th percentile per-packet one-way delay: 58.105 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 55.93 Mbit/s  
95th percentile per-packet one-way delay: 53.901 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 113.17 Mbit/s  
95th percentile per-packet one-way delay: 73.565 ms  
Loss rate: 0.00%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-07-20 09:18:32

End at: 2018-07-20 09:19:02

Local clock offset: -0.044 ms

Remote clock offset: -0.07 ms

# Below is generated by plot.py at 2018-07-20 11:51:21

# Datalink statistics

-- Total of 3 flows:

Average throughput: 294.46 Mbit/s

95th percentile per-packet one-way delay: 57.992 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 170.61 Mbit/s

95th percentile per-packet one-way delay: 57.618 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 156.18 Mbit/s

95th percentile per-packet one-way delay: 58.666 ms

Loss rate: 0.03%

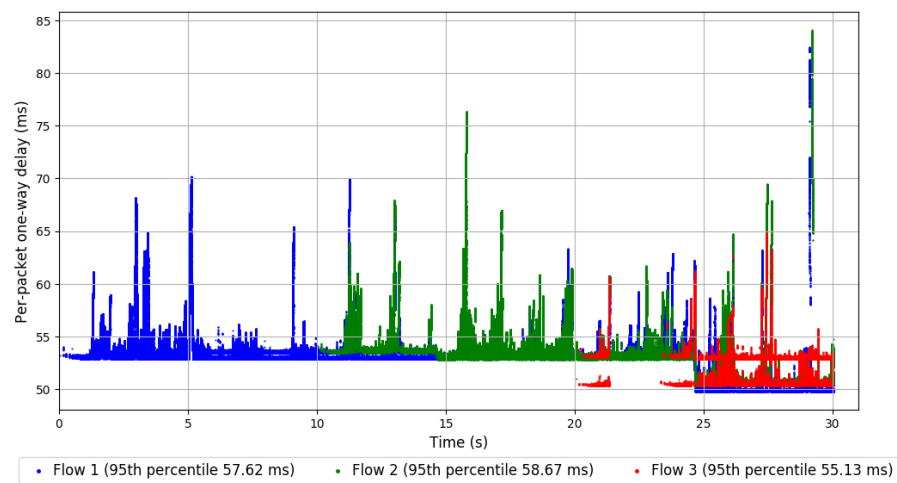
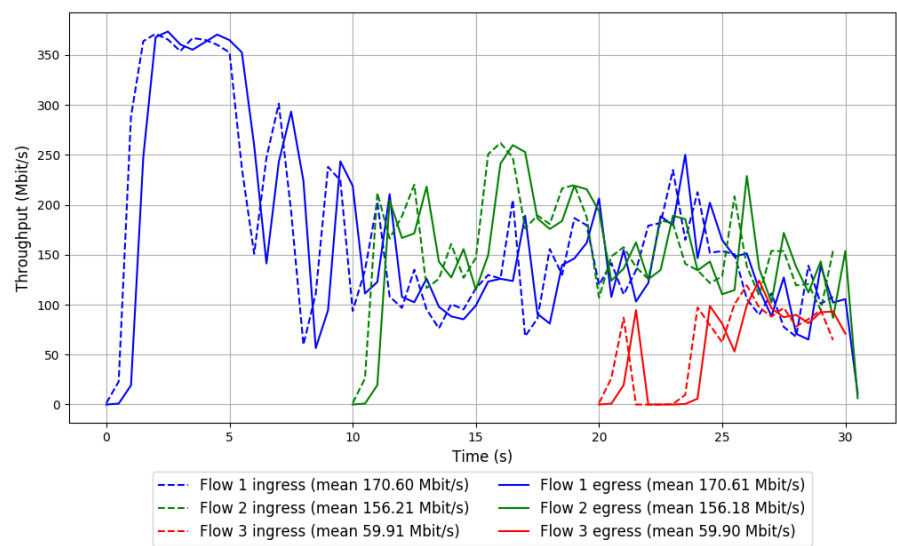
-- Flow 3:

Average throughput: 59.90 Mbit/s

95th percentile per-packet one-way delay: 55.135 ms

Loss rate: 0.00%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-07-20 09:43:51

End at: 2018-07-20 09:44:21

Local clock offset: 0.107 ms

Remote clock offset: 0.201 ms

# Below is generated by plot.py at 2018-07-20 11:51:21

# Datalink statistics

-- Total of 3 flows:

Average throughput: 168.34 Mbit/s

95th percentile per-packet one-way delay: 57.844 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 87.15 Mbit/s

95th percentile per-packet one-way delay: 56.708 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 62.18 Mbit/s

95th percentile per-packet one-way delay: 53.428 ms

Loss rate: 0.00%

-- Flow 3:

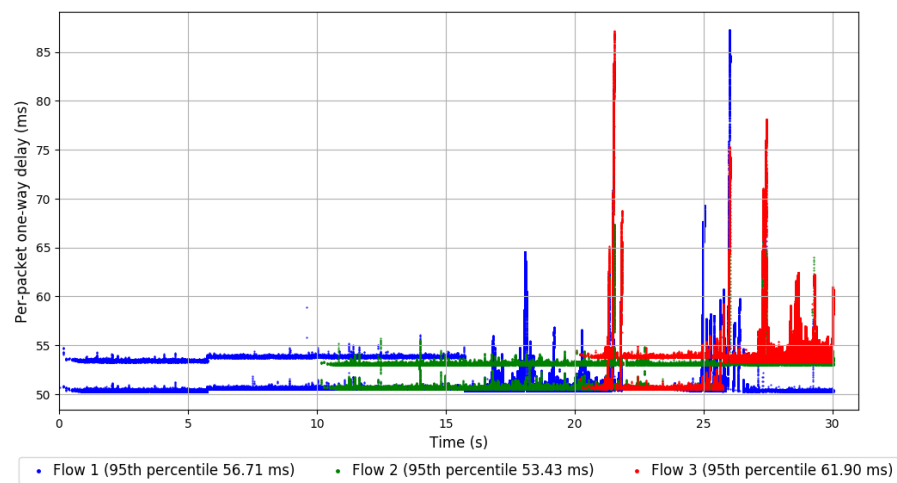
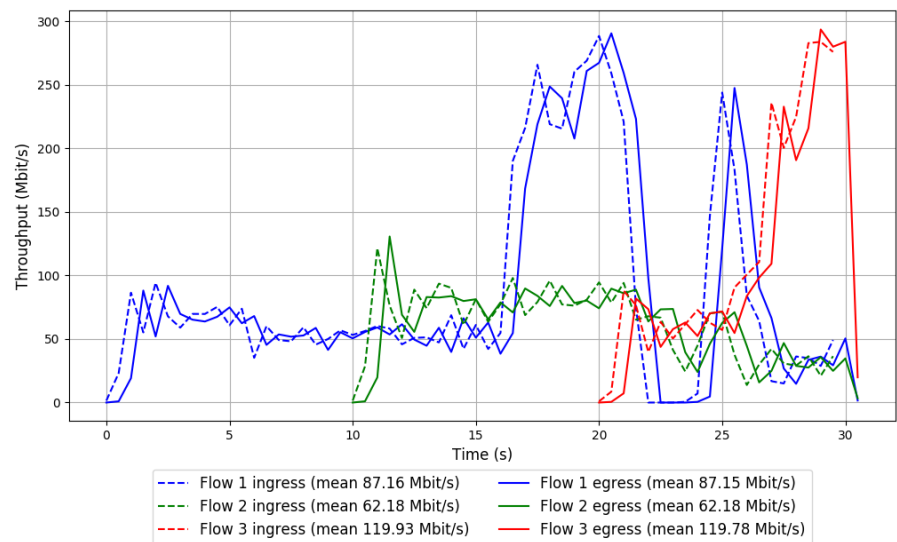
Average throughput: 119.78 Mbit/s

95th percentile per-packet one-way delay: 61.902 ms

Loss rate: 0.14%



Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-07-20 10:08:39

End at: 2018-07-20 10:09:09

Local clock offset: 0.125 ms

Remote clock offset: 0.139 ms

# Below is generated by plot.py at 2018-07-20 11:56:14

# Datalink statistics

-- Total of 3 flows:

Average throughput: 273.00 Mbit/s

95th percentile per-packet one-way delay: 70.274 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 205.57 Mbit/s

95th percentile per-packet one-way delay: 72.819 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 37.41 Mbit/s

95th percentile per-packet one-way delay: 61.574 ms

Loss rate: 0.00%

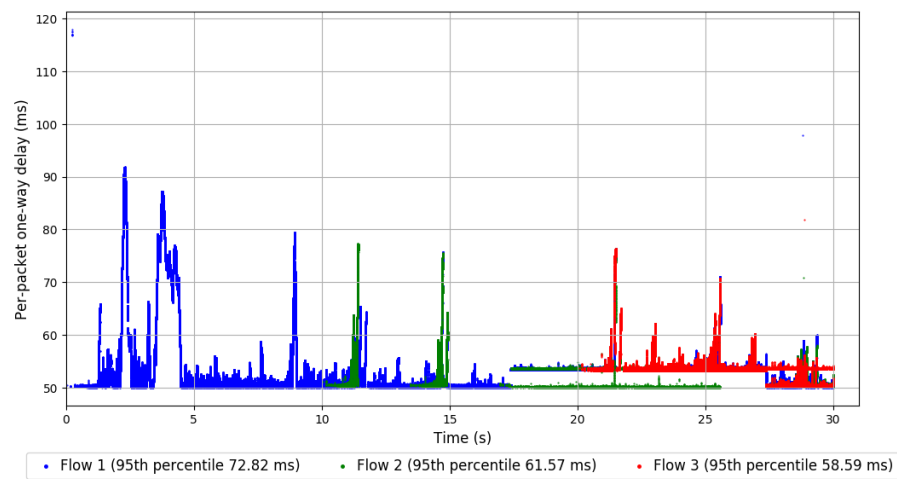
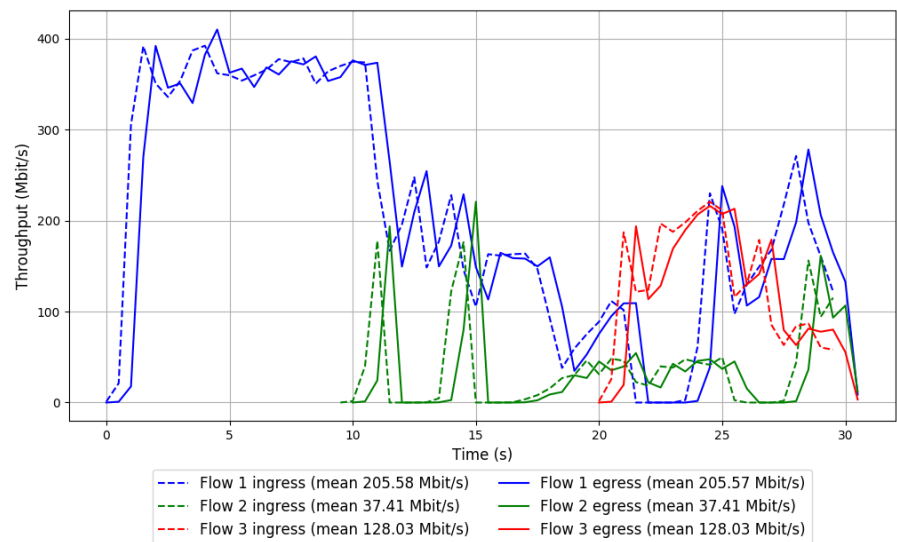
-- Flow 3:

Average throughput: 128.03 Mbit/s

95th percentile per-packet one-way delay: 58.591 ms

Loss rate: 0.00%

Run 8: Report of Copa — Data Link

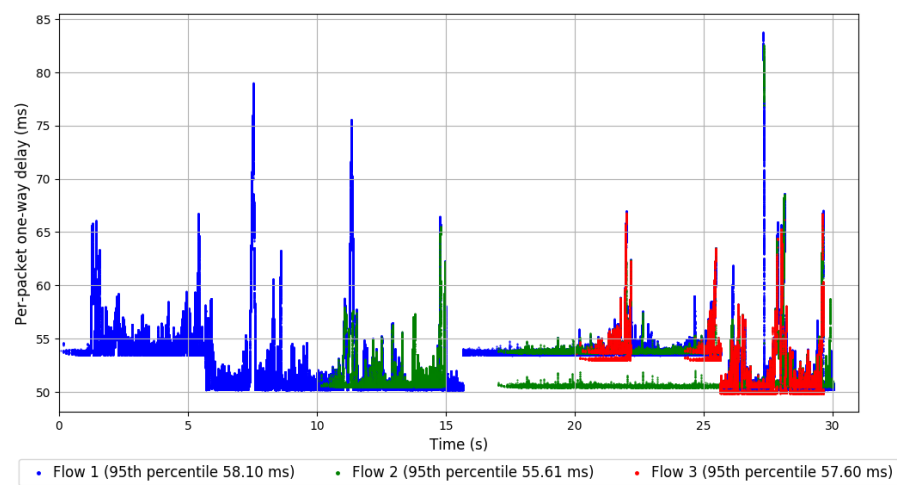
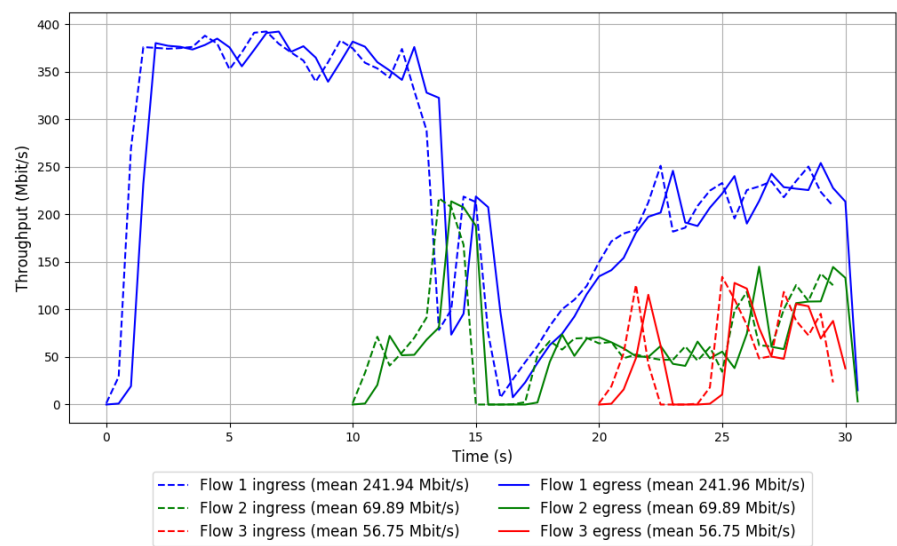


Run 9: Statistics of Copa

Start at: 2018-07-20 10:33:31  
End at: 2018-07-20 10:34:01  
Local clock offset: -0.18 ms  
Remote clock offset: -0.079 ms

# Below is generated by plot.py at 2018-07-20 11:57:16  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 306.61 Mbit/s  
95th percentile per-packet one-way delay: 57.706 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 241.96 Mbit/s  
95th percentile per-packet one-way delay: 58.096 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 69.89 Mbit/s  
95th percentile per-packet one-way delay: 55.610 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 56.75 Mbit/s  
95th percentile per-packet one-way delay: 57.596 ms  
Loss rate: 0.00%

Run 9: Report of Copa — Data Link

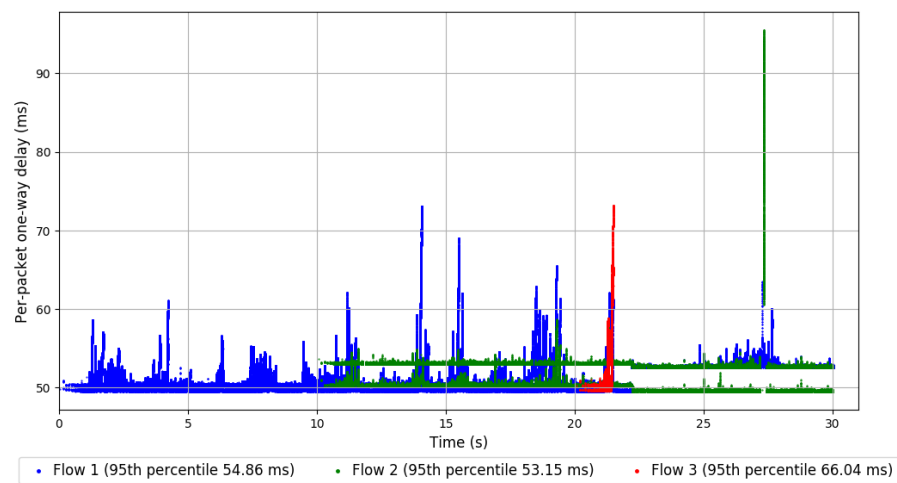
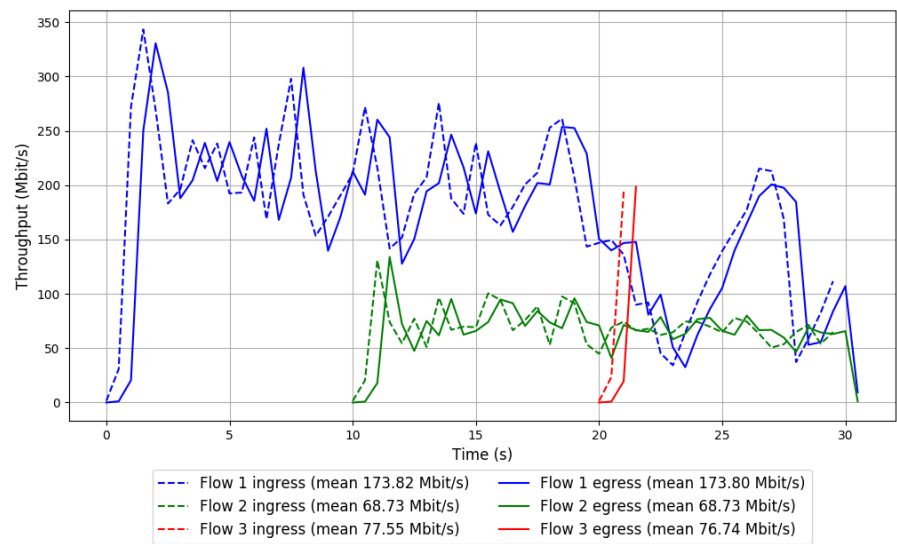


Run 10: Statistics of Copa

Start at: 2018-07-20 10:58:25  
End at: 2018-07-20 10:58:55  
Local clock offset: 0.055 ms  
Remote clock offset: -0.314 ms

# Below is generated by plot.py at 2018-07-20 11:57:16  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 223.16 Mbit/s  
95th percentile per-packet one-way delay: 54.547 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 173.80 Mbit/s  
95th percentile per-packet one-way delay: 54.856 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 68.73 Mbit/s  
95th percentile per-packet one-way delay: 53.149 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 76.74 Mbit/s  
95th percentile per-packet one-way delay: 66.043 ms  
Loss rate: 0.00%

Run 10: Report of Copa — Data Link



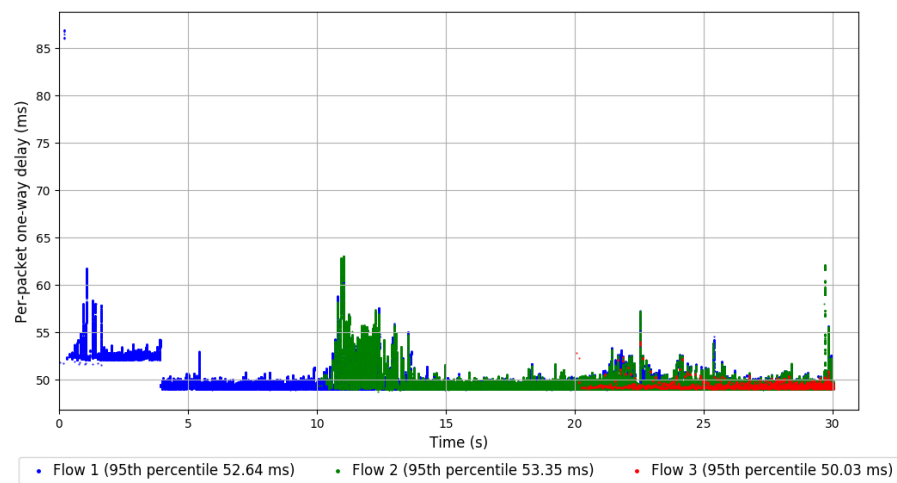
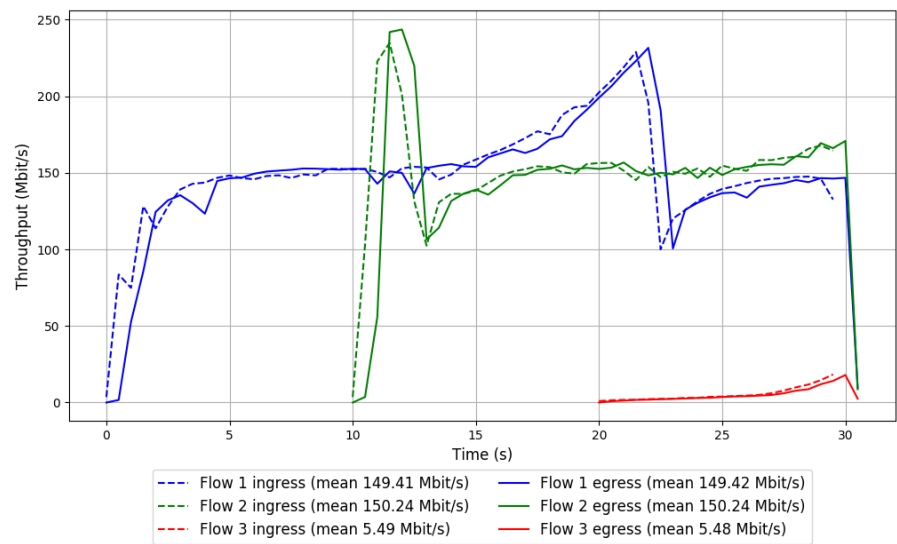
Run 1: Statistics of TCP Cubic

Start at: 2018-07-20 07:23:43  
End at: 2018-07-20 07:24:13  
Local clock offset: -0.11 ms  
Remote clock offset: -1.416 ms

# Below is generated by plot.py at 2018-07-20 11:57:16  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 251.34 Mbit/s  
95th percentile per-packet one-way delay: 52.781 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 149.42 Mbit/s  
95th percentile per-packet one-way delay: 52.639 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 150.24 Mbit/s  
95th percentile per-packet one-way delay: 53.353 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 5.48 Mbit/s  
95th percentile per-packet one-way delay: 50.028 ms  
Loss rate: 0.11%



Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-07-20 07:48:51

End at: 2018-07-20 07:49:21

Local clock offset: -0.166 ms

Remote clock offset: 1.334 ms

# Below is generated by plot.py at 2018-07-20 11:57:16

# Datalink statistics

-- Total of 3 flows:

Average throughput: 230.59 Mbit/s

95th percentile per-packet one-way delay: 56.314 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 140.83 Mbit/s

95th percentile per-packet one-way delay: 56.249 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 132.30 Mbit/s

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

Loss rate: 0.00%

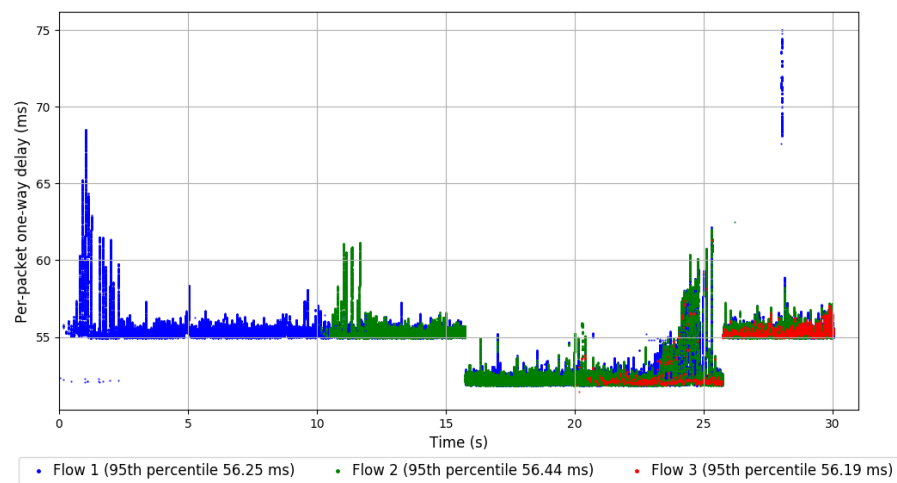
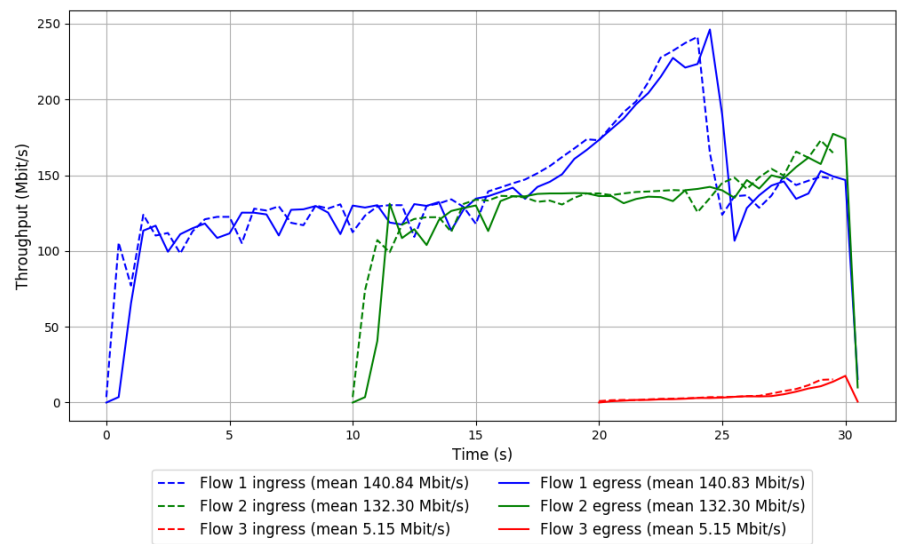
-- Flow 3:

Average throughput: 5.15 Mbit/s

95th percentile per-packet one-way delay: 56.185 ms

Loss rate: 0.12%

Run 2: Report of TCP Cubic — Data Link

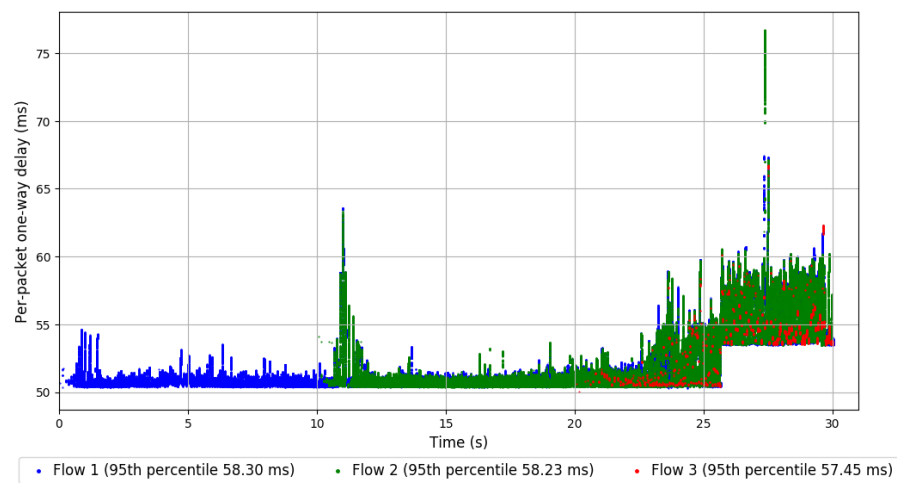
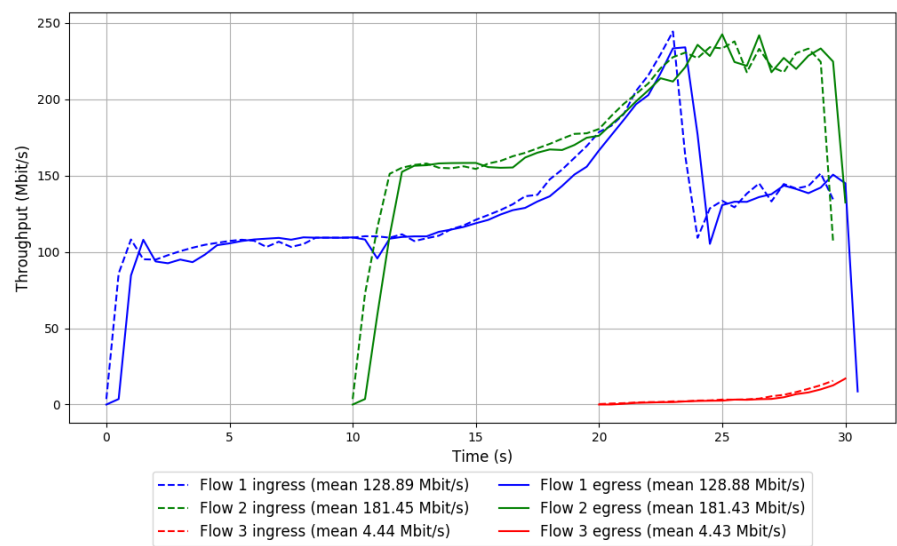


Run 3: Statistics of TCP Cubic

Start at: 2018-07-20 08:13:41  
End at: 2018-07-20 08:14:11  
Local clock offset: -0.073 ms  
Remote clock offset: -0.096 ms

# Below is generated by plot.py at 2018-07-20 11:57:16  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 250.78 Mbit/s  
95th percentile per-packet one-way delay: 58.261 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 128.88 Mbit/s  
95th percentile per-packet one-way delay: 58.299 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 181.43 Mbit/s  
95th percentile per-packet one-way delay: 58.226 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 4.43 Mbit/s  
95th percentile per-packet one-way delay: 57.454 ms  
Loss rate: 0.27%

Run 3: Report of TCP Cubic — Data Link

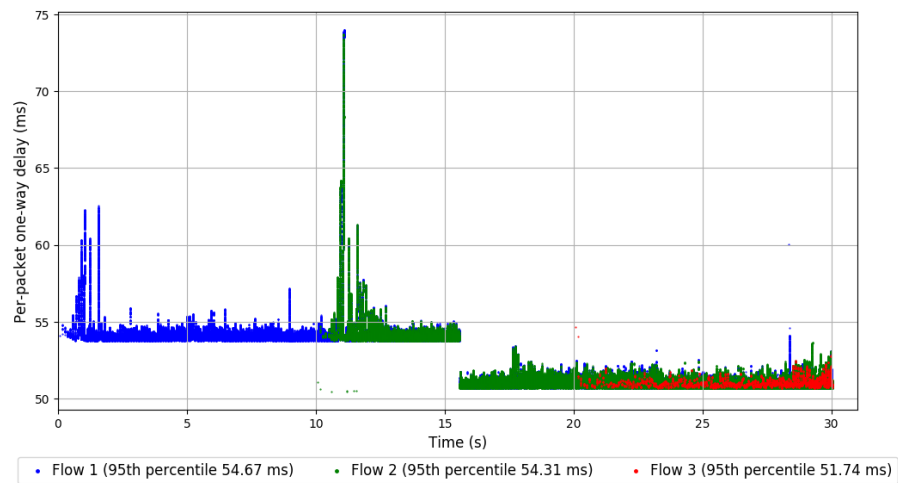
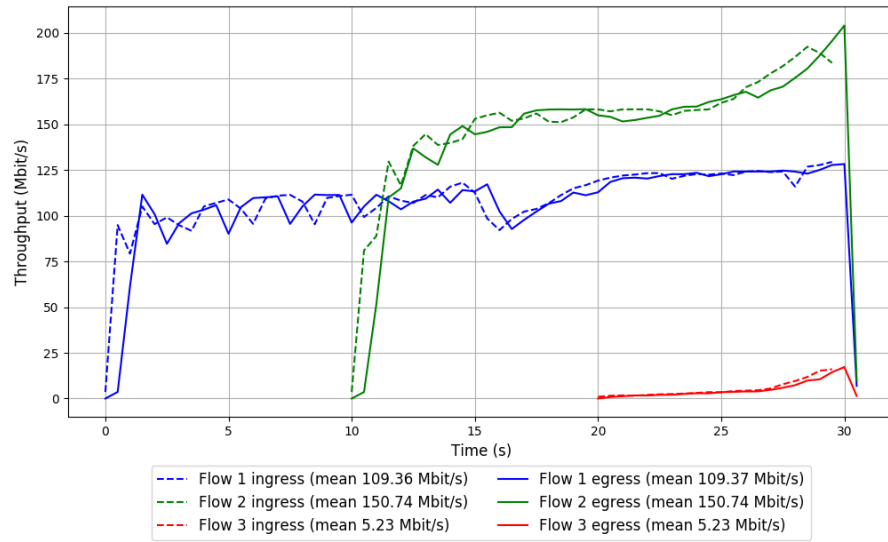


Run 4: Statistics of TCP Cubic

Start at: 2018-07-20 08:38:51  
End at: 2018-07-20 08:39:21  
Local clock offset: -0.287 ms  
Remote clock offset: -0.088 ms

# Below is generated by plot.py at 2018-07-20 11:57:16  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 211.50 Mbit/s  
95th percentile per-packet one-way delay: 54.531 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 109.37 Mbit/s  
95th percentile per-packet one-way delay: 54.672 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 150.74 Mbit/s  
95th percentile per-packet one-way delay: 54.307 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 5.23 Mbit/s  
95th percentile per-packet one-way delay: 51.745 ms  
Loss rate: 0.12%

# Run 4: Report of TCP Cubic — Data Link



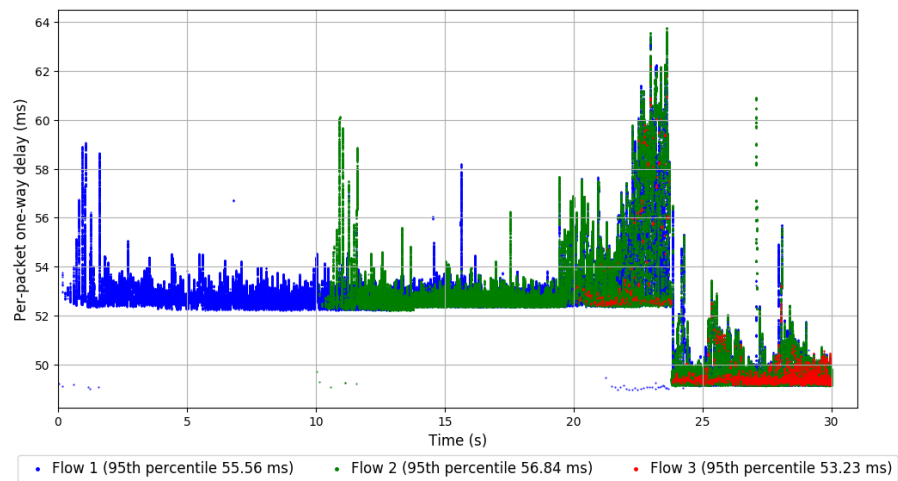
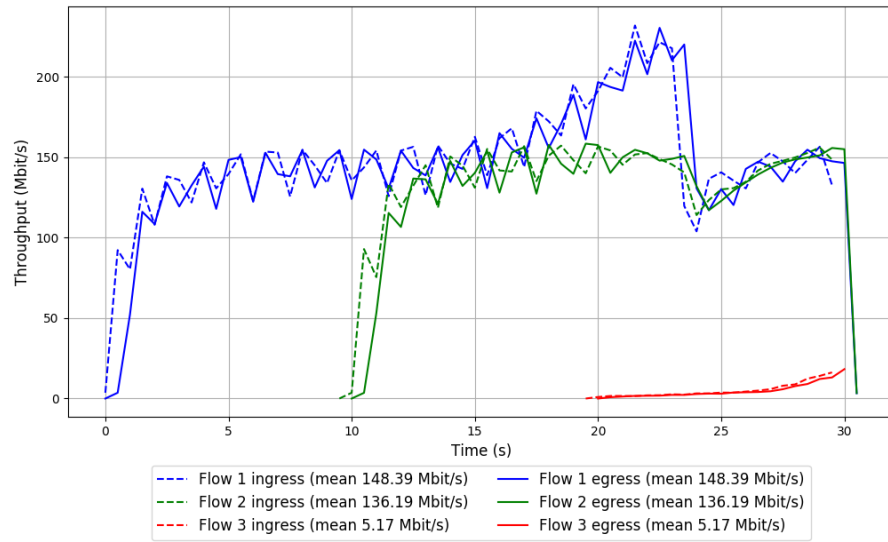
Run 5: Statistics of TCP Cubic

Start at: 2018-07-20 09:03:33  
End at: 2018-07-20 09:04:03  
Local clock offset: -0.207 ms  
Remote clock offset: -1.421 ms

# Below is generated by plot.py at 2018-07-20 11:57:16  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 240.91 Mbit/s  
95th percentile per-packet one-way delay: 56.054 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 148.39 Mbit/s  
95th percentile per-packet one-way delay: 55.557 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 136.19 Mbit/s  
95th percentile per-packet one-way delay: 56.840 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 5.17 Mbit/s  
95th percentile per-packet one-way delay: 53.233 ms  
Loss rate: 0.12%



# Run 5: Report of TCP Cubic — Data Link

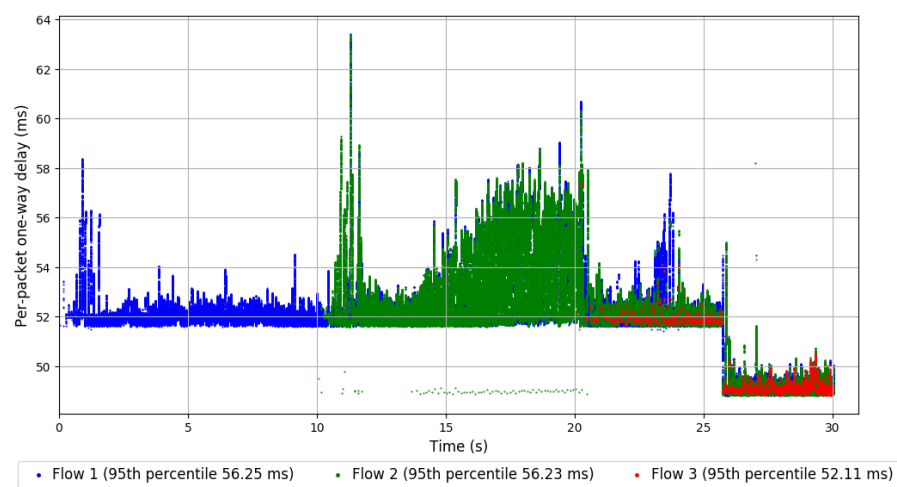
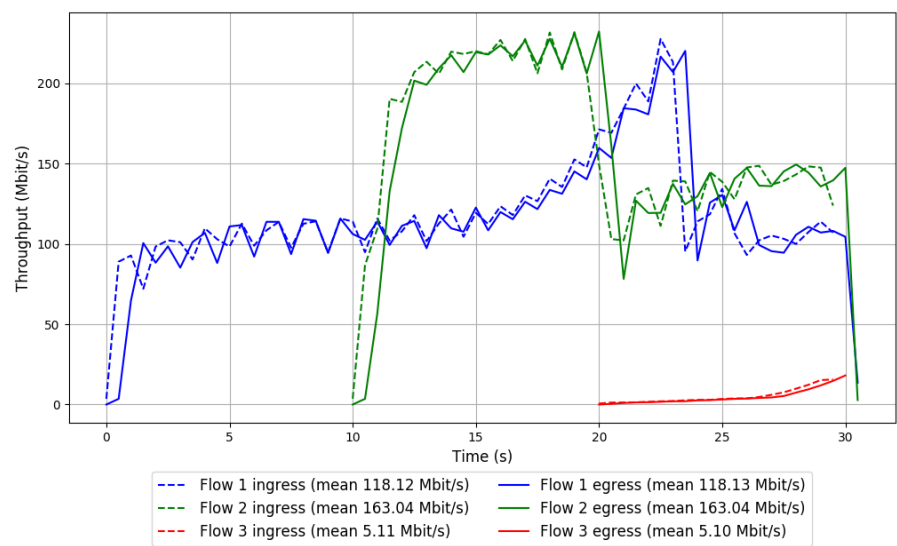


Run 6: Statistics of TCP Cubic

Start at: 2018-07-20 09:28:51  
End at: 2018-07-20 09:29:21  
Local clock offset: 0.182 ms  
Remote clock offset: -1.387 ms

# Below is generated by plot.py at 2018-07-20 11:57:16  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 228.40 Mbit/s  
95th percentile per-packet one-way delay: 56.230 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 118.13 Mbit/s  
95th percentile per-packet one-way delay: 56.250 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 163.04 Mbit/s  
95th percentile per-packet one-way delay: 56.227 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 5.10 Mbit/s  
95th percentile per-packet one-way delay: 52.106 ms  
Loss rate: 0.19%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-07-20 09:53:57

End at: 2018-07-20 09:54:27

Local clock offset: 0.069 ms

Remote clock offset: 0.143 ms

# Below is generated by plot.py at 2018-07-20 11:59:34

# Datalink statistics

-- Total of 3 flows:

Average throughput: 282.06 Mbit/s

95th percentile per-packet one-way delay: 54.194 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 147.36 Mbit/s

95th percentile per-packet one-way delay: 54.083 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 146.35 Mbit/s

95th percentile per-packet one-way delay: 54.394 ms

Loss rate: 0.00%

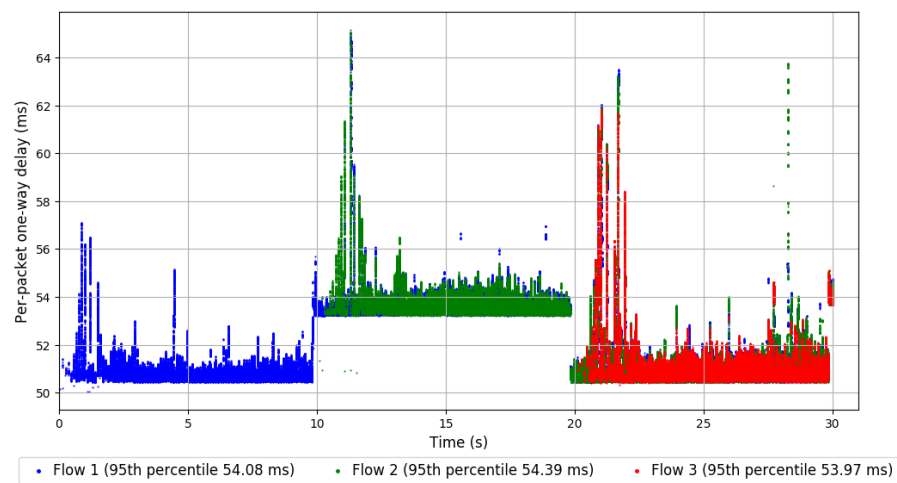
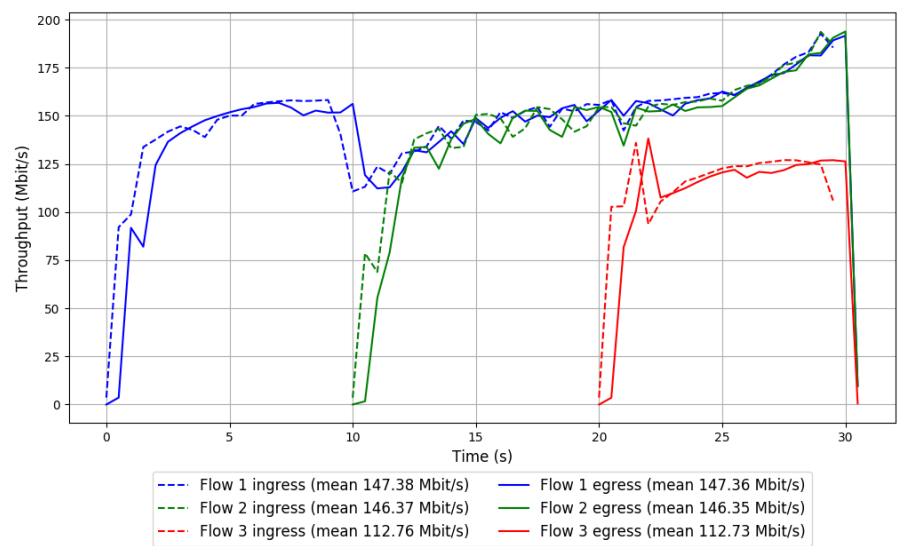
-- Flow 3:

Average throughput: 112.73 Mbit/s

95th percentile per-packet one-way delay: 53.974 ms

Loss rate: 0.00%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-07-20 10:18:56

End at: 2018-07-20 10:19:26

Local clock offset: 0.064 ms

Remote clock offset: 0.032 ms

# Below is generated by plot.py at 2018-07-20 11:59:34

# Datalink statistics

-- Total of 3 flows:

Average throughput: 237.34 Mbit/s

95th percentile per-packet one-way delay: 55.890 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 172.00 Mbit/s

95th percentile per-packet one-way delay: 55.523 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 51.36 Mbit/s

95th percentile per-packet one-way delay: 56.202 ms

Loss rate: 0.01%

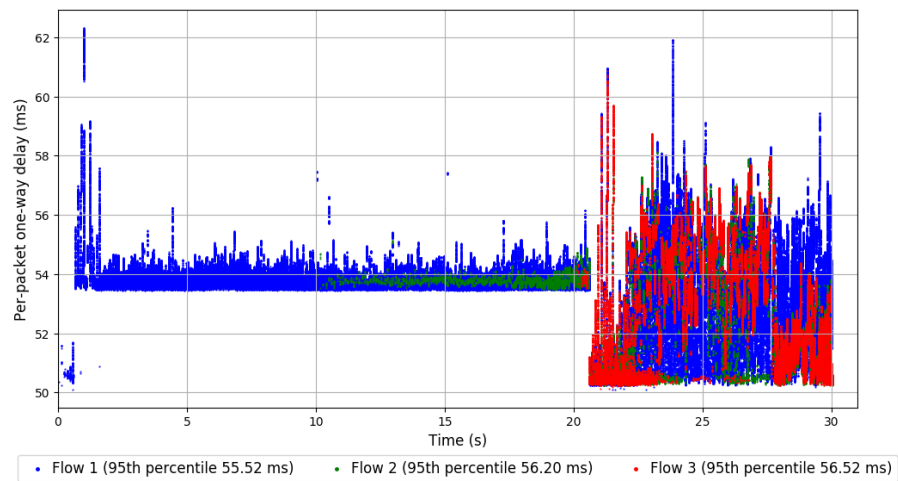
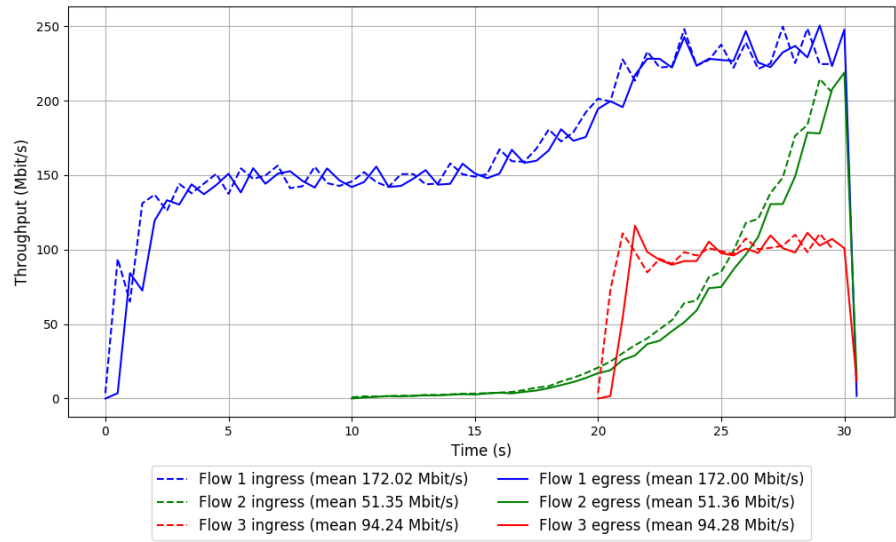
-- Flow 3:

Average throughput: 94.28 Mbit/s

95th percentile per-packet one-way delay: 56.517 ms

Loss rate: 0.00%

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



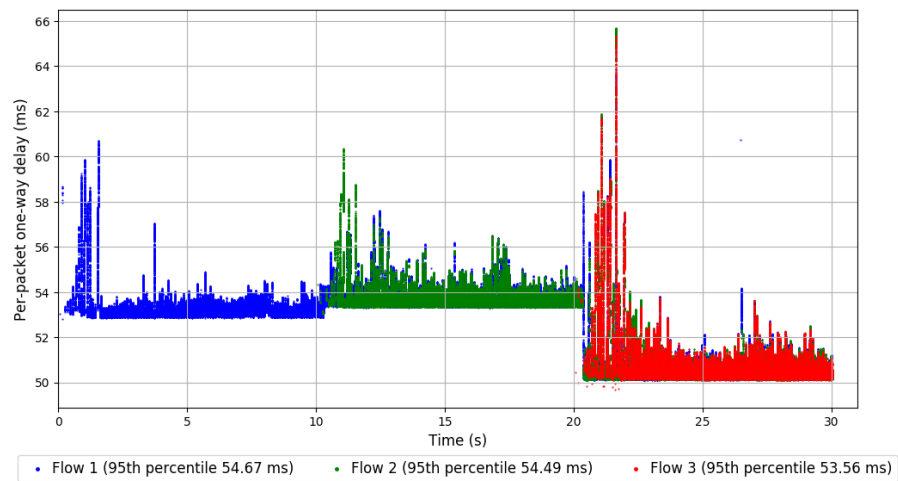
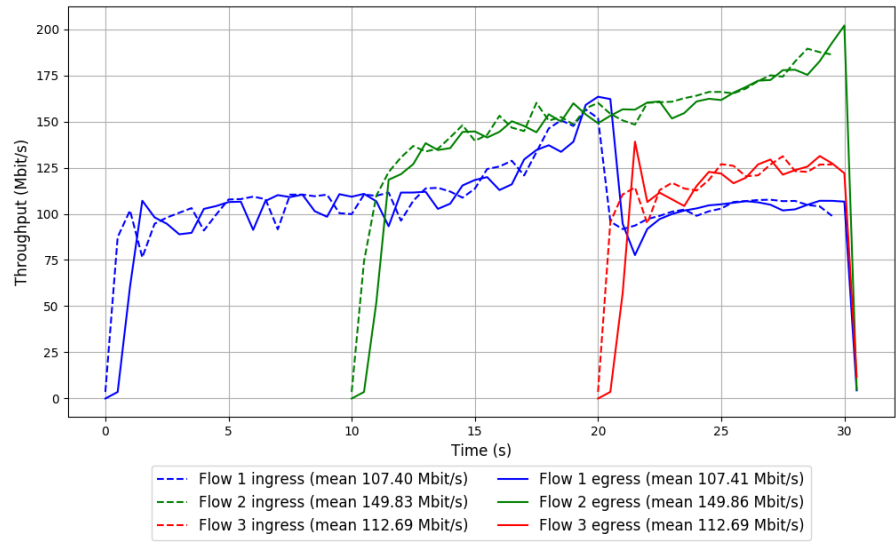
Run 9: Statistics of TCP Cubic

Start at: 2018-07-20 10:43:46  
End at: 2018-07-20 10:44:16  
Local clock offset: 0.131 ms  
Remote clock offset: -0.168 ms

# Below is generated by plot.py at 2018-07-20 11:59:34  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 244.66 Mbit/s  
95th percentile per-packet one-way delay: 54.554 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 107.41 Mbit/s  
95th percentile per-packet one-way delay: 54.668 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 149.86 Mbit/s  
95th percentile per-packet one-way delay: 54.487 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 112.69 Mbit/s  
95th percentile per-packet one-way delay: 53.558 ms  
Loss rate: 0.00%



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



Run 10: Statistics of TCP Cubic

Start at: 2018-07-20 11:08:35

End at: 2018-07-20 11:09:05

Local clock offset: -0.153 ms

Remote clock offset: 0.022 ms

# Below is generated by plot.py at 2018-07-20 12:00:19

# Datalink statistics

-- Total of 3 flows:

Average throughput: 276.97 Mbit/s

95th percentile per-packet one-way delay: 54.508 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 165.56 Mbit/s

95th percentile per-packet one-way delay: 55.237 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 111.87 Mbit/s

95th percentile per-packet one-way delay: 53.193 ms

Loss rate: 0.00%

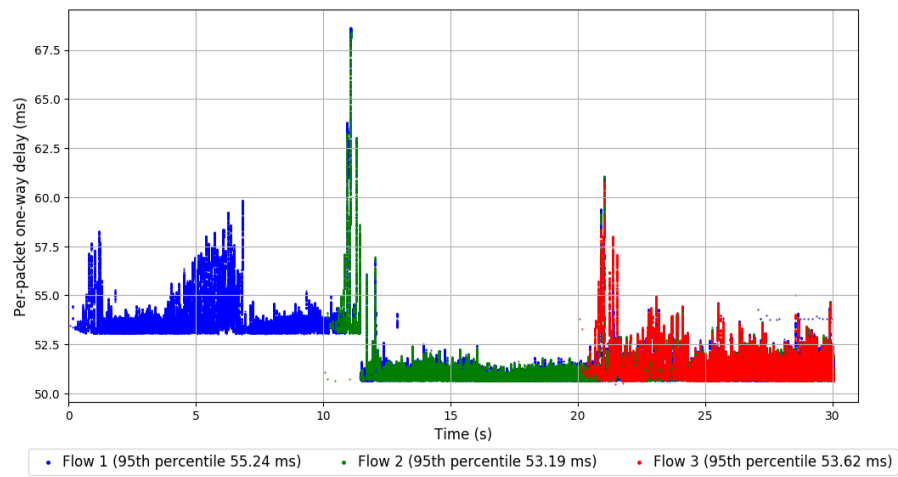
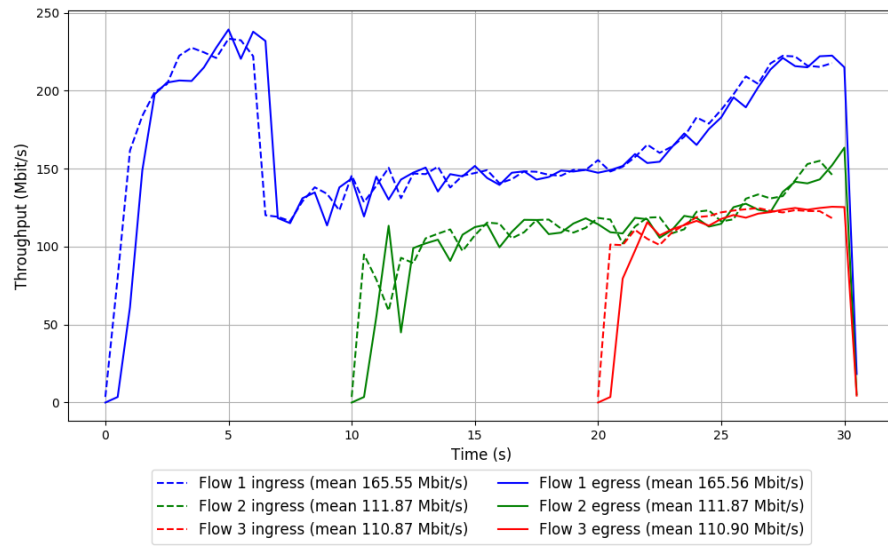
-- Flow 3:

Average throughput: 110.90 Mbit/s

95th percentile per-packet one-way delay: 53.625 ms

Loss rate: 0.00%

# Run 10: Report of TCP Cubic — Data Link

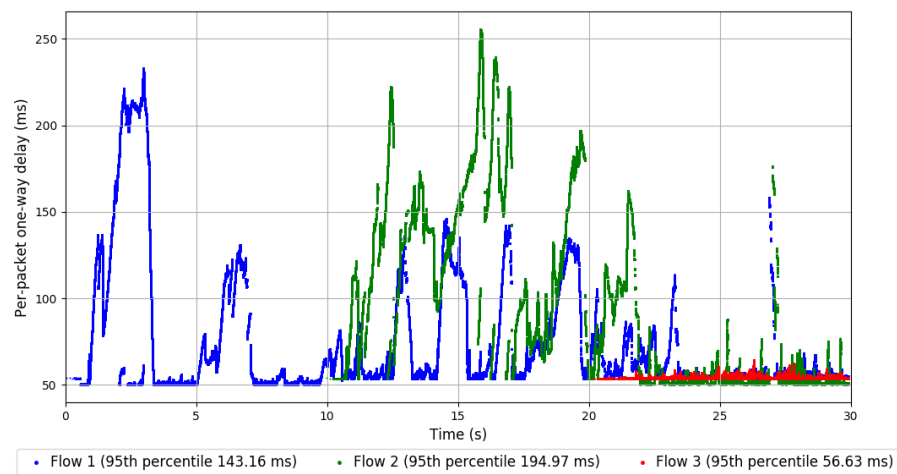
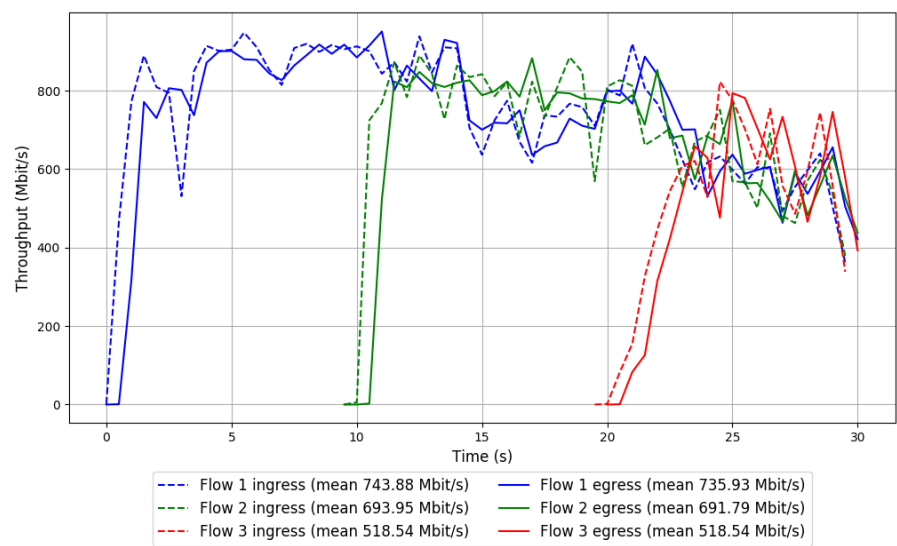


Run 1: Statistics of FillP

Start at: 2018-07-20 07:15:06  
End at: 2018-07-20 07:15:36  
Local clock offset: 0.089 ms  
Remote clock offset: -0.148 ms

# Below is generated by plot.py at 2018-07-20 12:25:10  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1369.19 Mbit/s  
95th percentile per-packet one-way delay: 177.845 ms  
Loss rate: 0.69%  
-- Flow 1:  
Average throughput: 735.93 Mbit/s  
95th percentile per-packet one-way delay: 143.160 ms  
Loss rate: 1.07%  
-- Flow 2:  
Average throughput: 691.79 Mbit/s  
95th percentile per-packet one-way delay: 194.968 ms  
Loss rate: 0.33%  
-- Flow 3:  
Average throughput: 518.54 Mbit/s  
95th percentile per-packet one-way delay: 56.633 ms  
Loss rate: 0.00%

Run 1: Report of FillP — Data Link

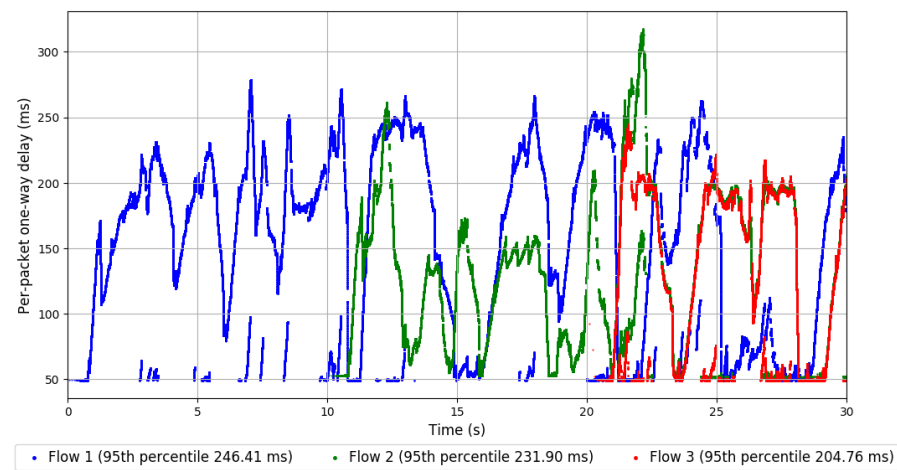
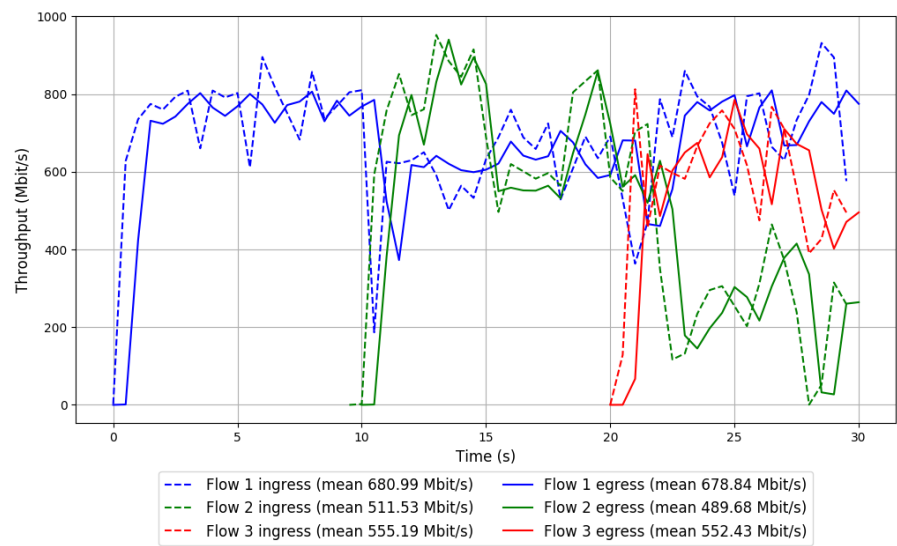


Run 2: Statistics of FillP

Start at: 2018-07-20 07:40:15  
End at: 2018-07-20 07:40:45  
Local clock offset: -0.103 ms  
Remote clock offset: -1.341 ms

# Below is generated by plot.py at 2018-07-20 12:25:10  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1187.15 Mbit/s  
95th percentile per-packet one-way delay: 243.655 ms  
Loss rate: 1.64%  
-- Flow 1:  
Average throughput: 678.84 Mbit/s  
95th percentile per-packet one-way delay: 246.406 ms  
Loss rate: 0.39%  
-- Flow 2:  
Average throughput: 489.68 Mbit/s  
95th percentile per-packet one-way delay: 231.902 ms  
Loss rate: 4.39%  
-- Flow 3:  
Average throughput: 552.43 Mbit/s  
95th percentile per-packet one-way delay: 204.762 ms  
Loss rate: 1.16%

Run 2: Report of FillP — Data Link



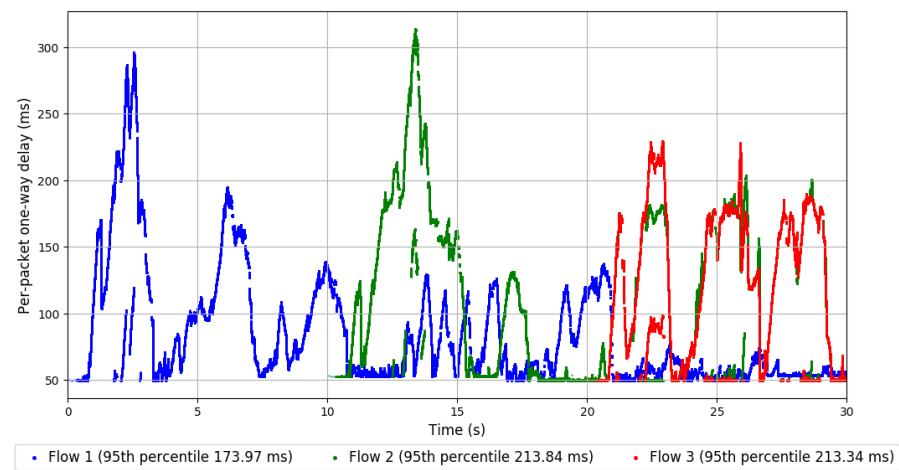
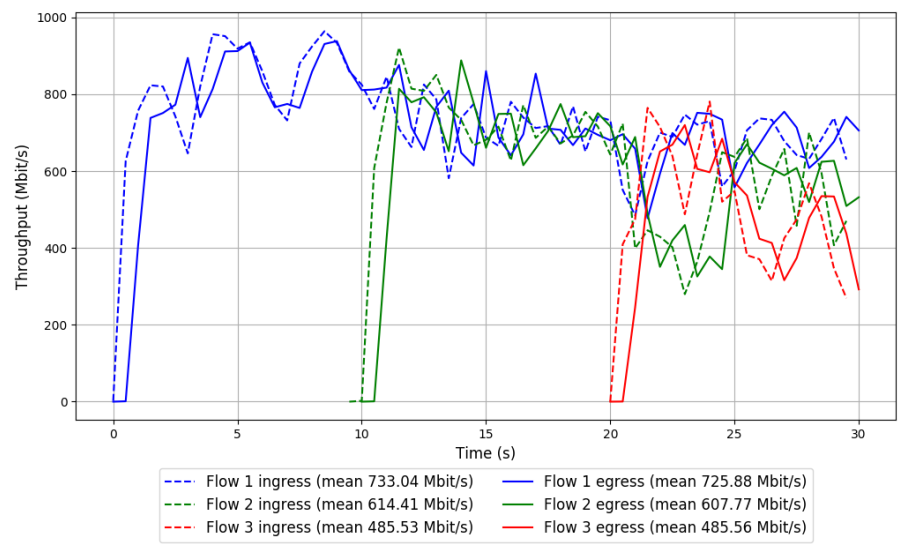
Run 3: Statistics of FillP

Start at: 2018-07-20 08:05:00  
End at: 2018-07-20 08:05:30  
Local clock offset: -0.107 ms  
Remote clock offset: -0.443 ms

# Below is generated by plot.py at 2018-07-20 12:25:10  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1291.31 Mbit/s  
95th percentile per-packet one-way delay: 194.954 ms  
Loss rate: 0.89%  
-- Flow 1:  
Average throughput: 725.88 Mbit/s  
95th percentile per-packet one-way delay: 173.966 ms  
Loss rate: 0.96%  
-- Flow 2:  
Average throughput: 607.77 Mbit/s  
95th percentile per-packet one-way delay: 213.838 ms  
Loss rate: 1.10%  
-- Flow 3:  
Average throughput: 485.56 Mbit/s  
95th percentile per-packet one-way delay: 213.341 ms  
Loss rate: 0.00%



Run 3: Report of FillP — Data Link

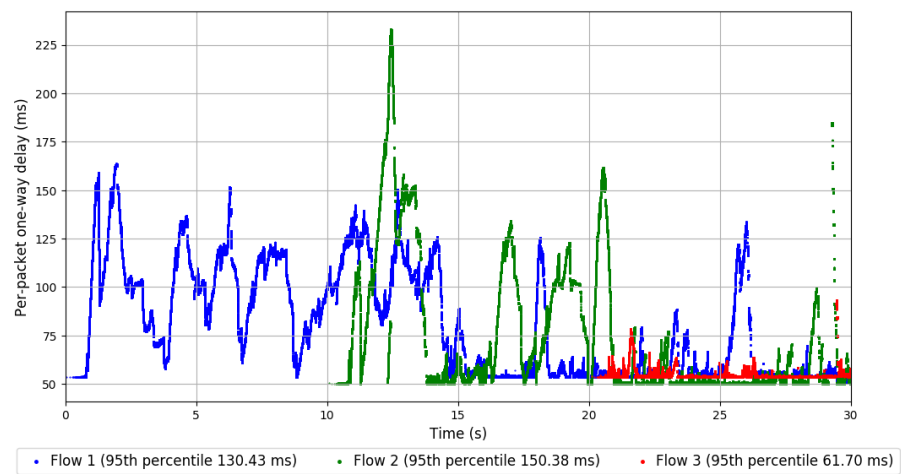
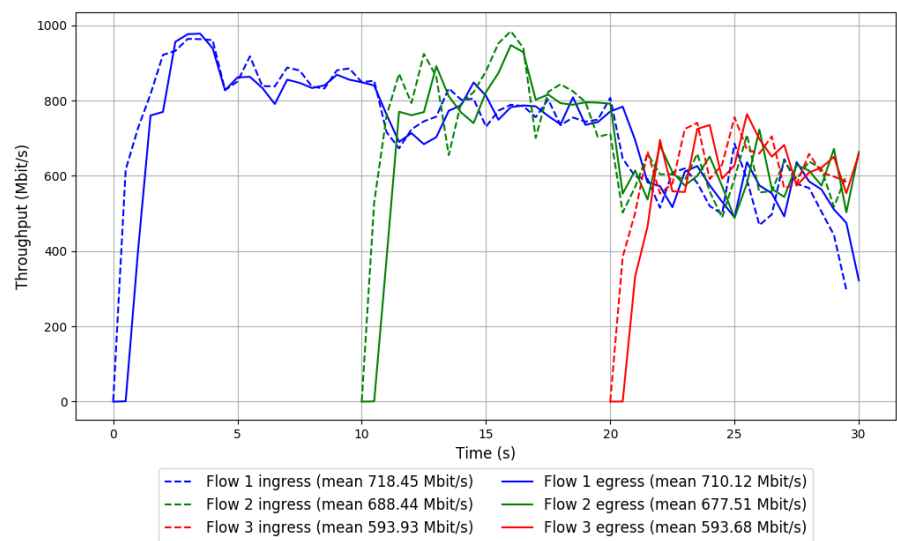


Run 4: Statistics of FillP

Start at: 2018-07-20 08:30:07  
End at: 2018-07-20 08:30:37  
Local clock offset: -0.27 ms  
Remote clock offset: -0.015 ms

# Below is generated by plot.py at 2018-07-20 12:26:09  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1357.08 Mbit/s  
95th percentile per-packet one-way delay: 133.563 ms  
Loss rate: 1.15%  
-- Flow 1:  
Average throughput: 710.12 Mbit/s  
95th percentile per-packet one-way delay: 130.432 ms  
Loss rate: 1.17%  
-- Flow 2:  
Average throughput: 677.51 Mbit/s  
95th percentile per-packet one-way delay: 150.377 ms  
Loss rate: 1.59%  
-- Flow 3:  
Average throughput: 593.68 Mbit/s  
95th percentile per-packet one-way delay: 61.698 ms  
Loss rate: 0.04%

Run 4: Report of FillP — Data Link

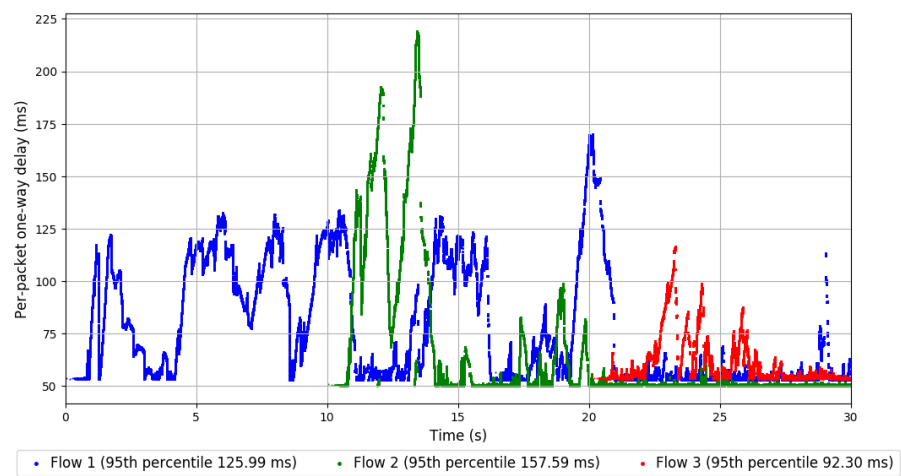
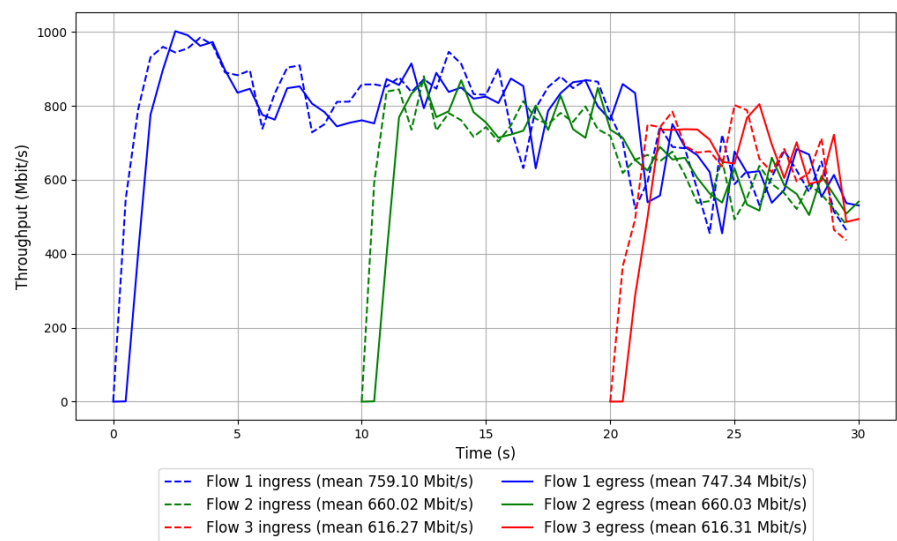


Run 5: Statistics of FillP

Start at: 2018-07-20 08:54:49  
End at: 2018-07-20 08:55:19  
Local clock offset: -0.034 ms  
Remote clock offset: -0.163 ms

# Below is generated by plot.py at 2018-07-20 12:28:32  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1390.45 Mbit/s  
95th percentile per-packet one-way delay: 128.907 ms  
Loss rate: 0.84%  
-- Flow 1:  
Average throughput: 747.34 Mbit/s  
95th percentile per-packet one-way delay: 125.986 ms  
Loss rate: 1.55%  
-- Flow 2:  
Average throughput: 660.03 Mbit/s  
95th percentile per-packet one-way delay: 157.594 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 616.31 Mbit/s  
95th percentile per-packet one-way delay: 92.296 ms  
Loss rate: 0.00%

Run 5: Report of FillP — Data Link

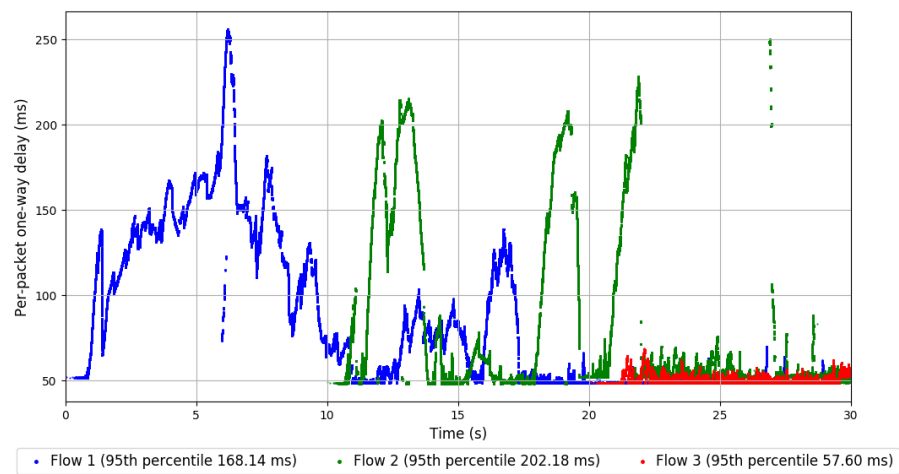
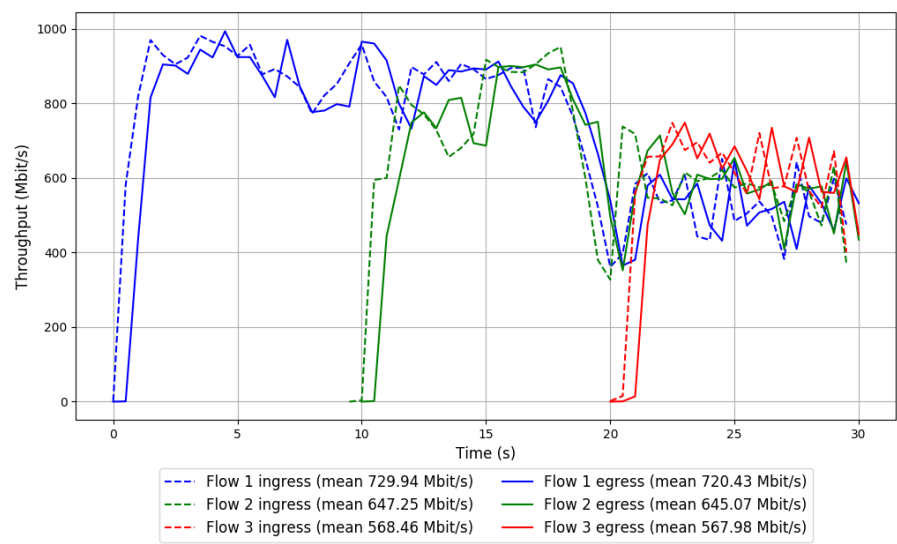


Run 6: Statistics of FillP

Start at: 2018-07-20 09:20:07  
End at: 2018-07-20 09:20:37  
Local clock offset: 0.106 ms  
Remote clock offset: -1.522 ms

# Below is generated by plot.py at 2018-07-20 12:28:32  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1338.03 Mbit/s  
95th percentile per-packet one-way delay: 181.234 ms  
Loss rate: 0.81%  
-- Flow 1:  
Average throughput: 720.43 Mbit/s  
95th percentile per-packet one-way delay: 168.143 ms  
Loss rate: 1.30%  
-- Flow 2:  
Average throughput: 645.07 Mbit/s  
95th percentile per-packet one-way delay: 202.178 ms  
Loss rate: 0.32%  
-- Flow 3:  
Average throughput: 567.98 Mbit/s  
95th percentile per-packet one-way delay: 57.600 ms  
Loss rate: 0.00%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-07-20 09:45:15

End at: 2018-07-20 09:45:45

Local clock offset: -0.14 ms

Remote clock offset: 0.044 ms

# Below is generated by plot.py at 2018-07-20 12:28:32

# Datalink statistics

-- Total of 3 flows:

Average throughput: 1342.61 Mbit/s

95th percentile per-packet one-way delay: 142.141 ms

Loss rate: 2.29%

-- Flow 1:

Average throughput: 735.80 Mbit/s

95th percentile per-packet one-way delay: 139.336 ms

Loss rate: 2.42%

-- Flow 2:

Average throughput: 649.96 Mbit/s

95th percentile per-packet one-way delay: 157.681 ms

Loss rate: 2.18%

-- Flow 3:

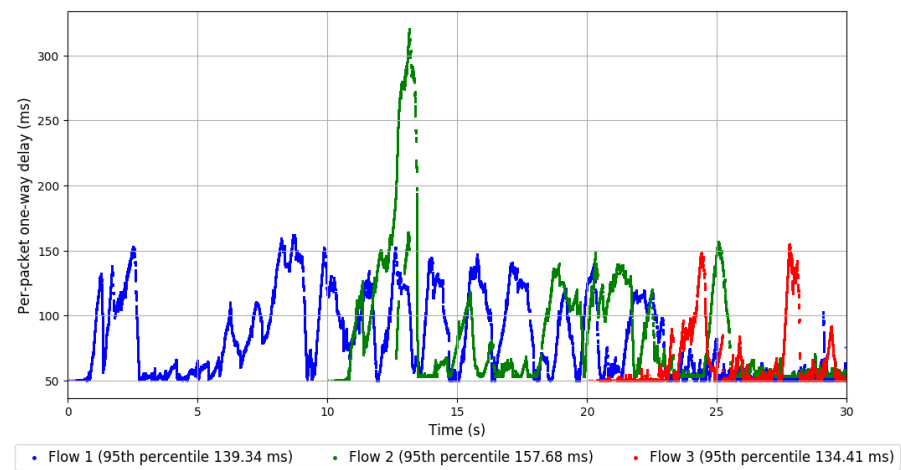
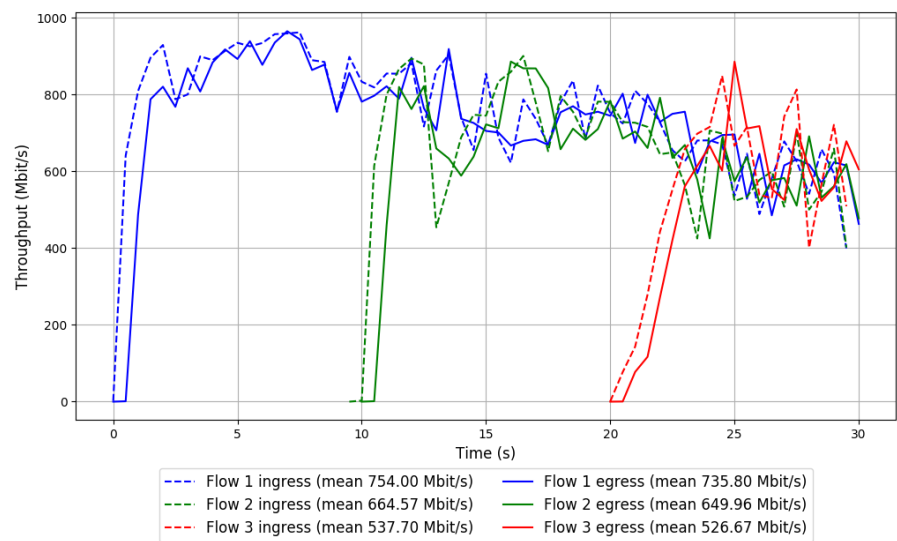
Average throughput: 526.67 Mbit/s

95th percentile per-packet one-way delay: 134.412 ms

Loss rate: 2.03%



Run 7: Report of FillP — Data Link

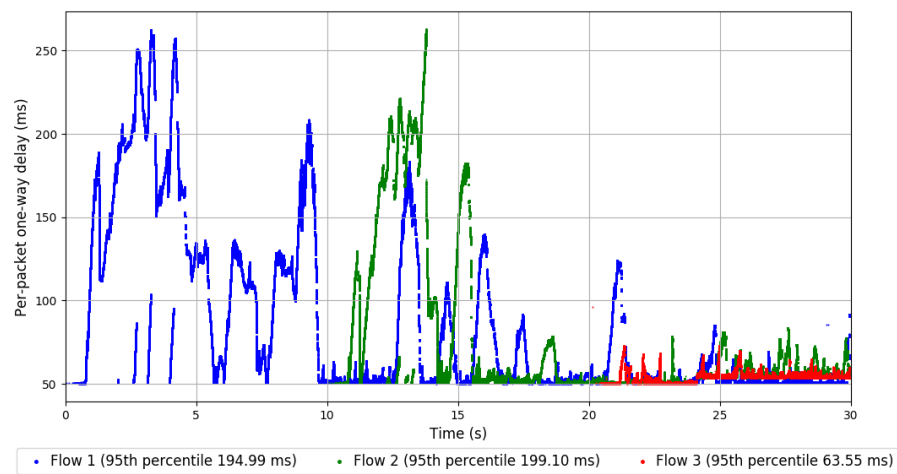
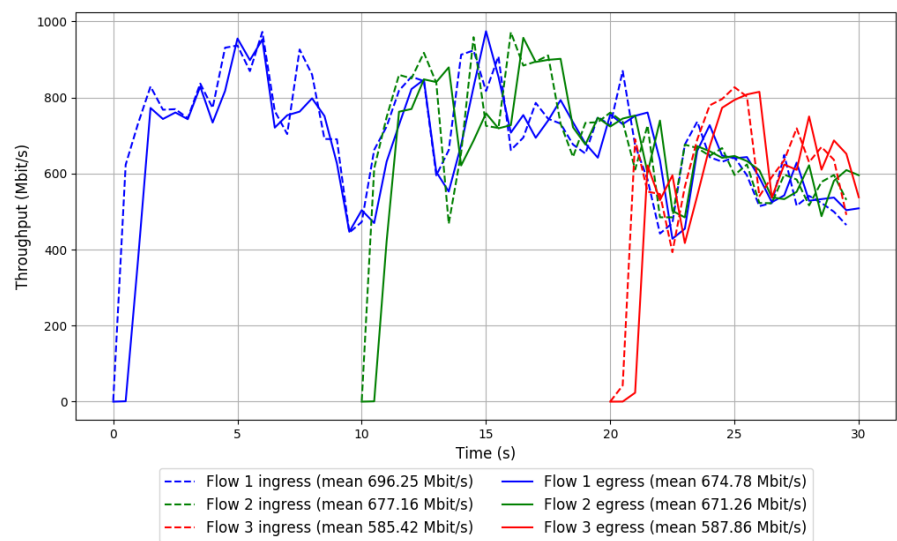


Run 8: Statistics of FillP

Start at: 2018-07-20 10:10:13  
End at: 2018-07-20 10:10:43  
Local clock offset: -0.213 ms  
Remote clock offset: -0.113 ms

# Below is generated by plot.py at 2018-07-20 12:28:37  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1315.04 Mbit/s  
95th percentile per-packet one-way delay: 192.684 ms  
Loss rate: 1.87%  
-- Flow 1:  
Average throughput: 674.78 Mbit/s  
95th percentile per-packet one-way delay: 194.990 ms  
Loss rate: 3.05%  
-- Flow 2:  
Average throughput: 671.26 Mbit/s  
95th percentile per-packet one-way delay: 199.104 ms  
Loss rate: 0.85%  
-- Flow 3:  
Average throughput: 587.86 Mbit/s  
95th percentile per-packet one-way delay: 63.552 ms  
Loss rate: 0.00%

Run 8: Report of FillP — Data Link

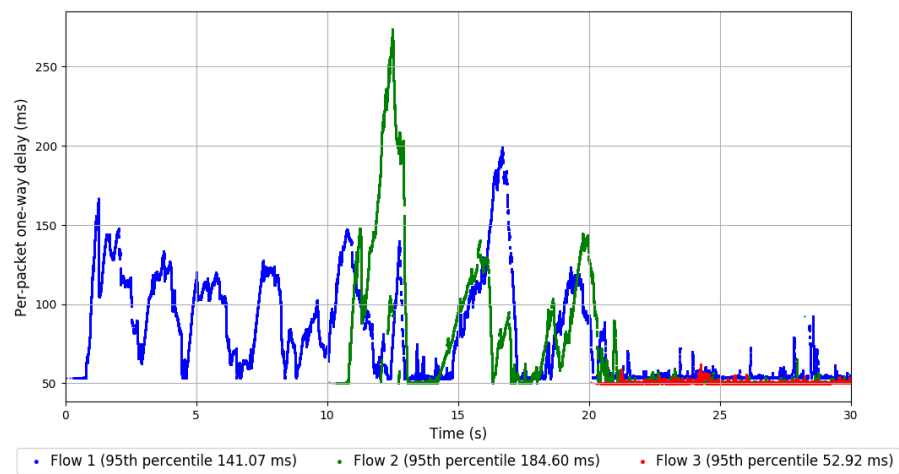
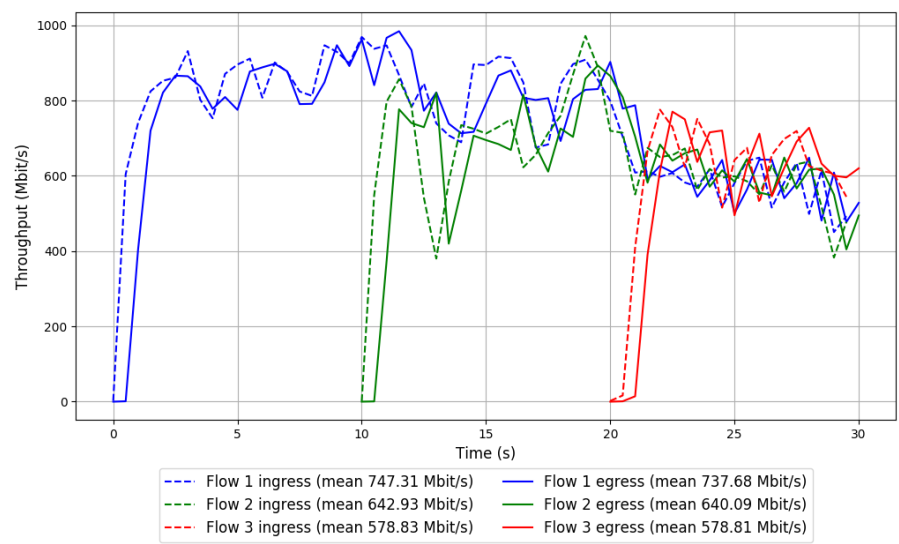


Run 9: Statistics of FillP

Start at: 2018-07-20 10:35:08  
End at: 2018-07-20 10:35:38  
Local clock offset: -0.027 ms  
Remote clock offset: -0.104 ms

# Below is generated by plot.py at 2018-07-20 12:51:44  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1355.32 Mbit/s  
95th percentile per-packet one-way delay: 141.612 ms  
Loss rate: 0.84%  
-- Flow 1:  
Average throughput: 737.68 Mbit/s  
95th percentile per-packet one-way delay: 141.067 ms  
Loss rate: 1.29%  
-- Flow 2:  
Average throughput: 640.09 Mbit/s  
95th percentile per-packet one-way delay: 184.596 ms  
Loss rate: 0.44%  
-- Flow 3:  
Average throughput: 578.81 Mbit/s  
95th percentile per-packet one-way delay: 52.917 ms  
Loss rate: 0.00%

Run 9: Report of FillP — Data Link

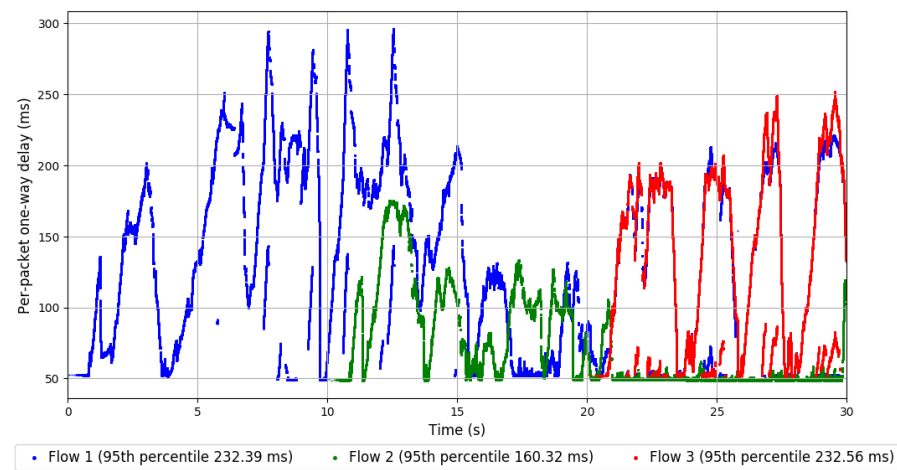
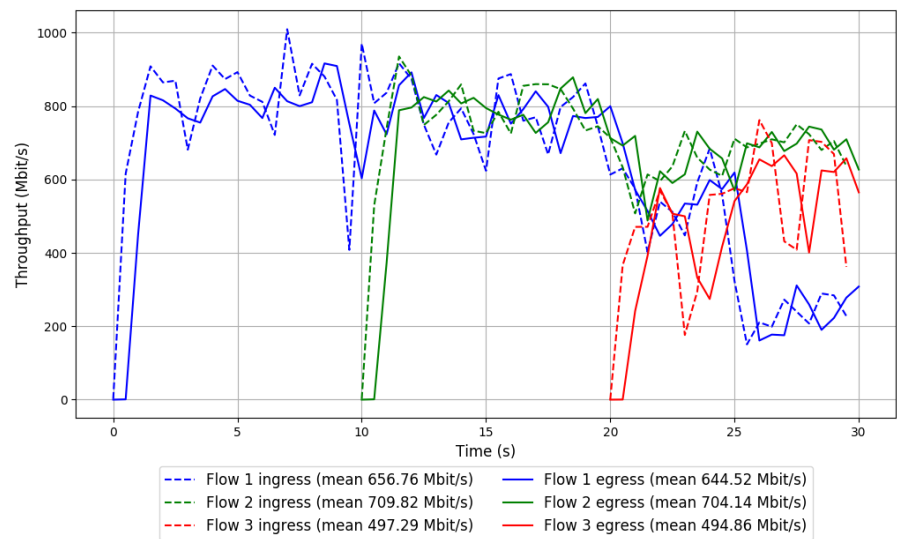


Run 10: Statistics of FillP

Start at: 2018-07-20 10:59:53  
End at: 2018-07-20 11:00:23  
Local clock offset: -0.163 ms  
Remote clock offset: -1.464 ms

# Below is generated by plot.py at 2018-07-20 12:51:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1277.15 Mbit/s  
95th percentile per-packet one-way delay: 224.701 ms  
Loss rate: 1.29%  
-- Flow 1:  
Average throughput: 644.52 Mbit/s  
95th percentile per-packet one-way delay: 232.389 ms  
Loss rate: 1.86%  
-- Flow 2:  
Average throughput: 704.14 Mbit/s  
95th percentile per-packet one-way delay: 160.324 ms  
Loss rate: 0.78%  
-- Flow 3:  
Average throughput: 494.86 Mbit/s  
95th percentile per-packet one-way delay: 232.556 ms  
Loss rate: 0.49%

Run 10: Report of FillP — Data Link



Run 1: Statistics of FillP-Sheep

Start at: 2018-07-20 07:27:43

End at: 2018-07-20 07:28:13

Local clock offset: -0.32 ms

Remote clock offset: -1.22 ms

# Below is generated by plot.py at 2018-07-20 12:51:51

# Datalink statistics

-- Total of 3 flows:

Average throughput: 1046.77 Mbit/s

95th percentile per-packet one-way delay: 260.736 ms

Loss rate: 0.19%

-- Flow 1:

Average throughput: 543.40 Mbit/s

95th percentile per-packet one-way delay: 264.403 ms

Loss rate: 0.17%

-- Flow 2:

Average throughput: 477.30 Mbit/s

95th percentile per-packet one-way delay: 264.727 ms

Loss rate: 0.33%

-- Flow 3:

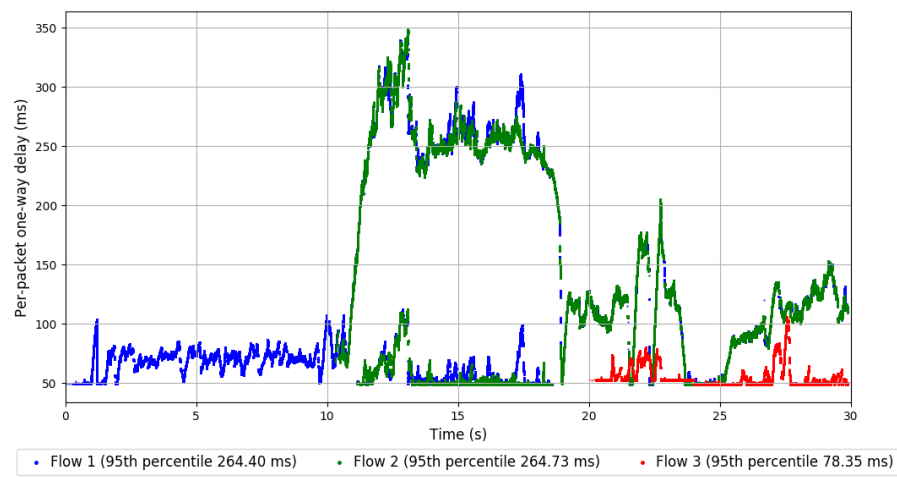
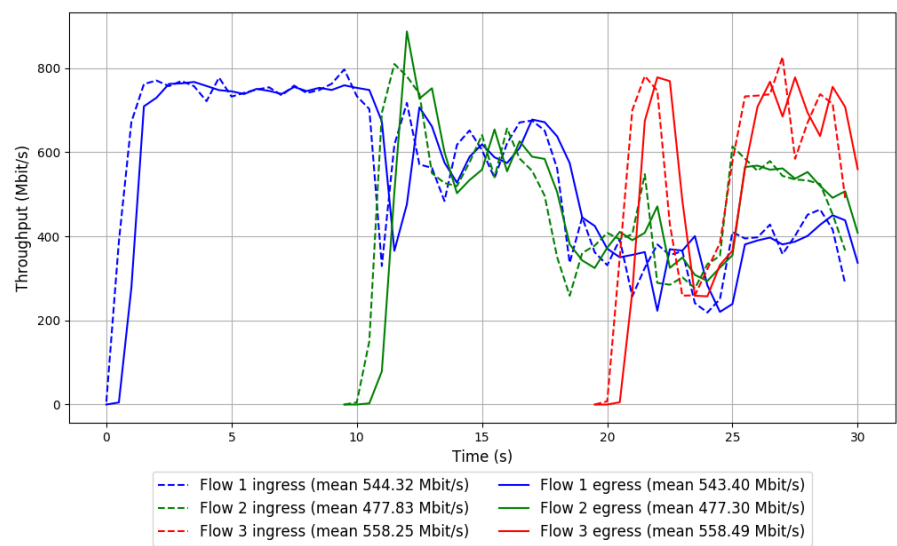
Average throughput: 558.49 Mbit/s

95th percentile per-packet one-way delay: 78.347 ms

Loss rate: 0.00%



Run 1: Report of FillP-Sheep — Data Link

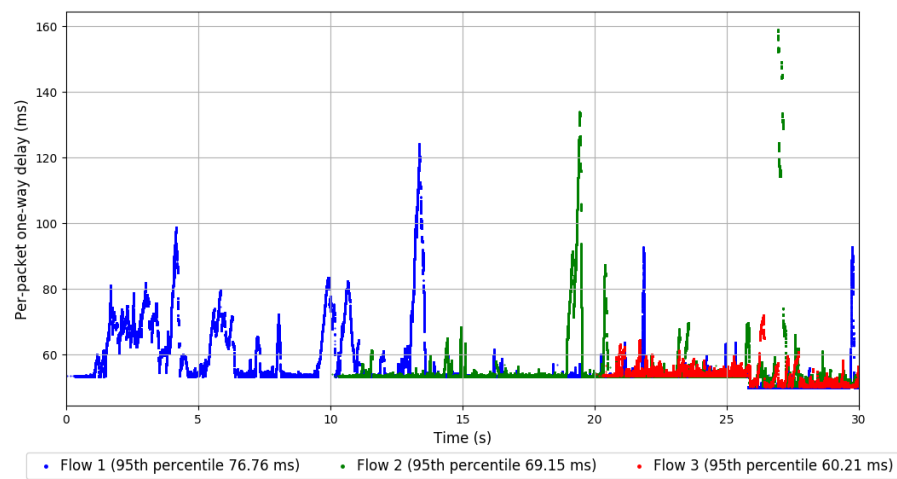
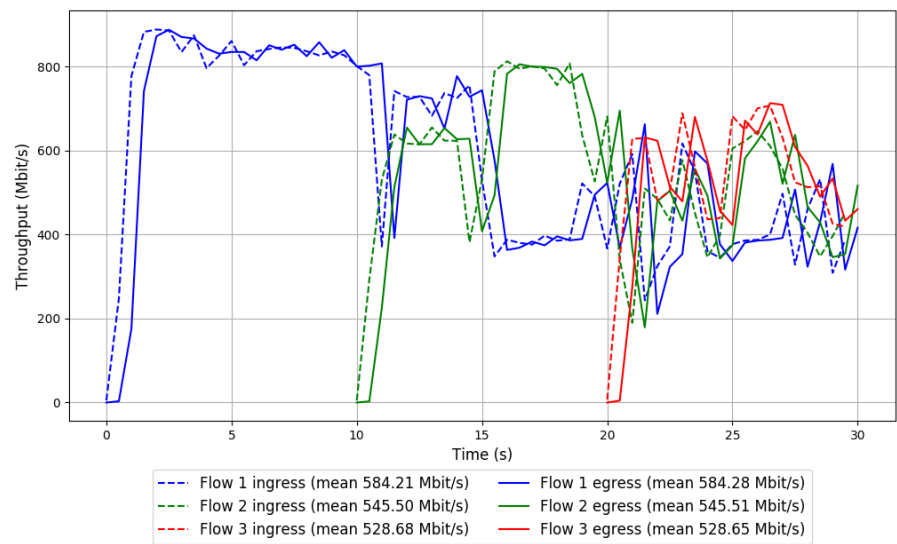


Run 2: Statistics of FillP-Sheep

Start at: 2018-07-20 07:52:51  
End at: 2018-07-20 07:53:21  
Local clock offset: -0.035 ms  
Remote clock offset: -0.005 ms

# Below is generated by plot.py at 2018-07-20 12:51:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1122.04 Mbit/s  
95th percentile per-packet one-way delay: 74.233 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 584.28 Mbit/s  
95th percentile per-packet one-way delay: 76.764 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 545.51 Mbit/s  
95th percentile per-packet one-way delay: 69.153 ms  
Loss rate: 0.02%  
-- Flow 3:  
Average throughput: 528.65 Mbit/s  
95th percentile per-packet one-way delay: 60.208 ms  
Loss rate: 0.01%

Run 2: Report of FillP-Sheep — Data Link



Run 3: Statistics of FillP-Sheep

Start at: 2018-07-20 08:17:42

End at: 2018-07-20 08:18:12

Local clock offset: -0.011 ms

Remote clock offset: 1.282 ms

# Below is generated by plot.py at 2018-07-20 12:52:58

# Datalink statistics

-- Total of 3 flows:

Average throughput: 1132.25 Mbit/s

95th percentile per-packet one-way delay: 75.517 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 603.39 Mbit/s

95th percentile per-packet one-way delay: 79.912 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 554.33 Mbit/s

95th percentile per-packet one-way delay: 70.725 ms

Loss rate: 0.00%

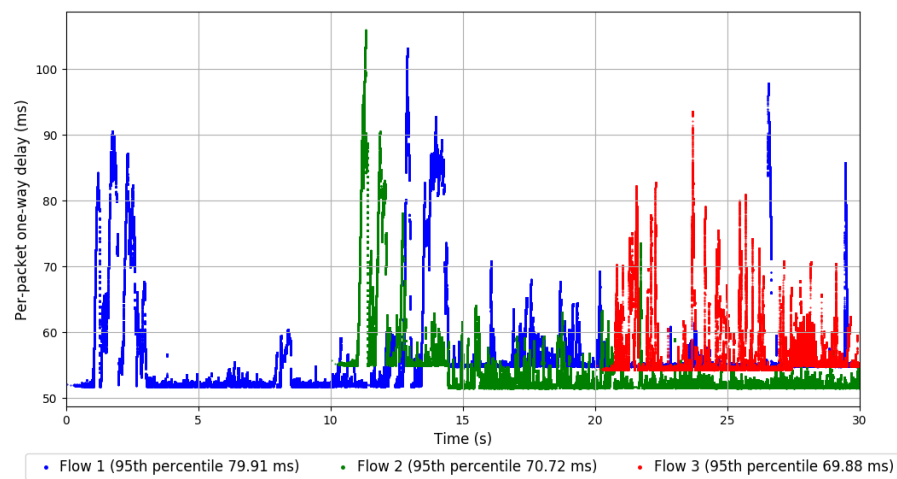
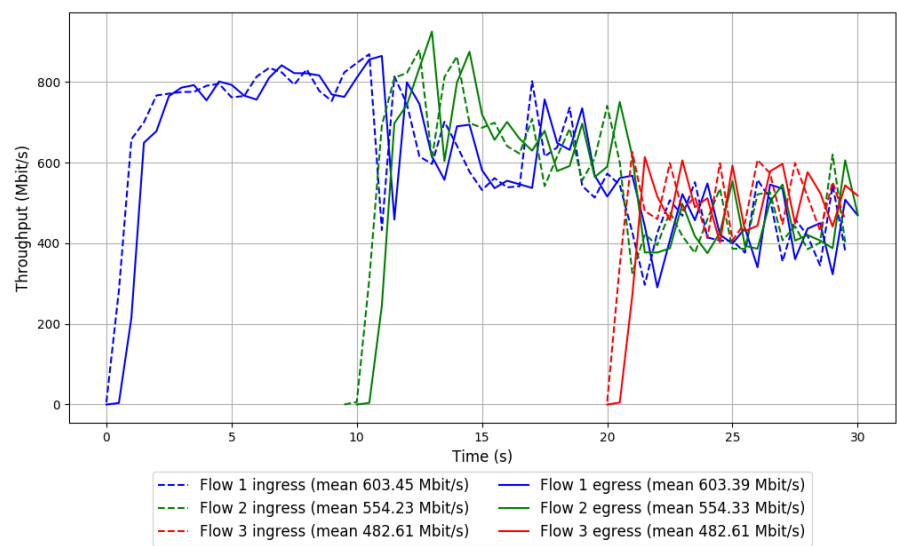
-- Flow 3:

Average throughput: 482.61 Mbit/s

95th percentile per-packet one-way delay: 69.876 ms

Loss rate: 0.00%

Run 3: Report of FillP-Sheep — Data Link

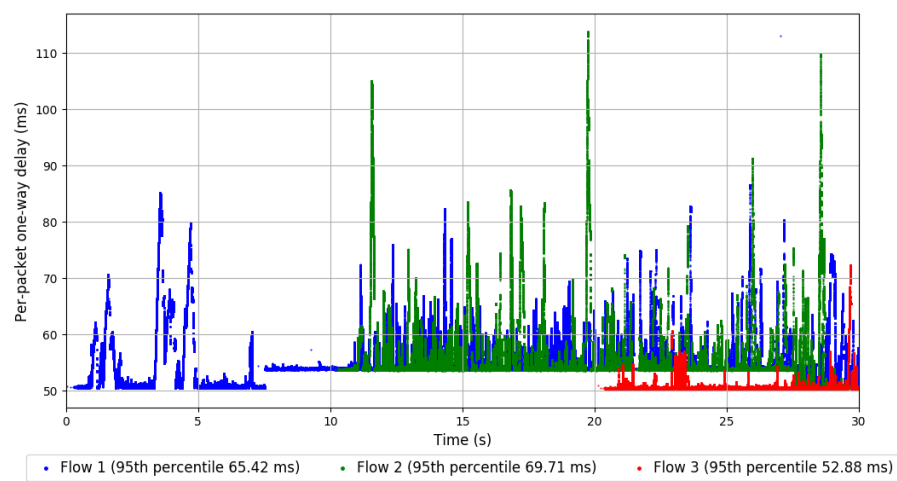
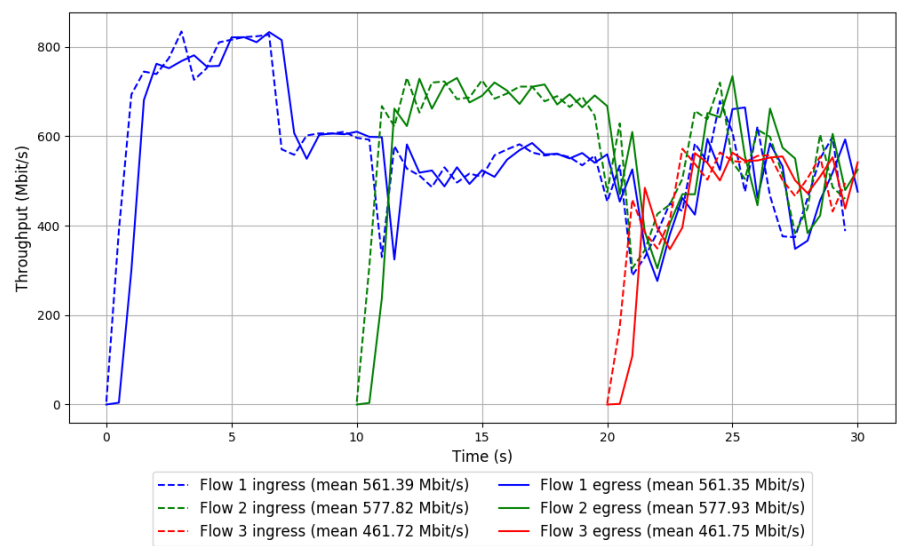


Run 4: Statistics of FillP-Sheep

Start at: 2018-07-20 08:42:49  
End at: 2018-07-20 08:43:19  
Local clock offset: -0.242 ms  
Remote clock offset: -0.164 ms

# Below is generated by plot.py at 2018-07-20 12:52:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1097.23 Mbit/s  
95th percentile per-packet one-way delay: 65.542 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 561.35 Mbit/s  
95th percentile per-packet one-way delay: 65.425 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 577.93 Mbit/s  
95th percentile per-packet one-way delay: 69.713 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 461.75 Mbit/s  
95th percentile per-packet one-way delay: 52.884 ms  
Loss rate: 0.00%

Run 4: Report of FillP-Sheep — Data Link



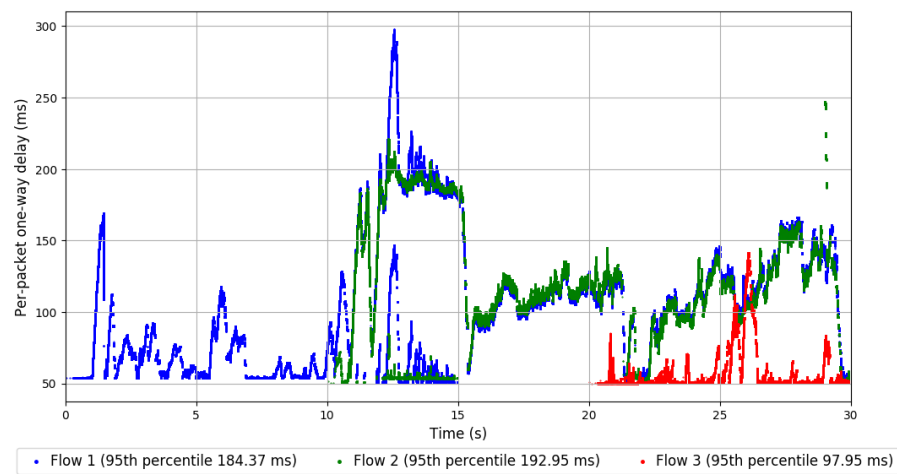
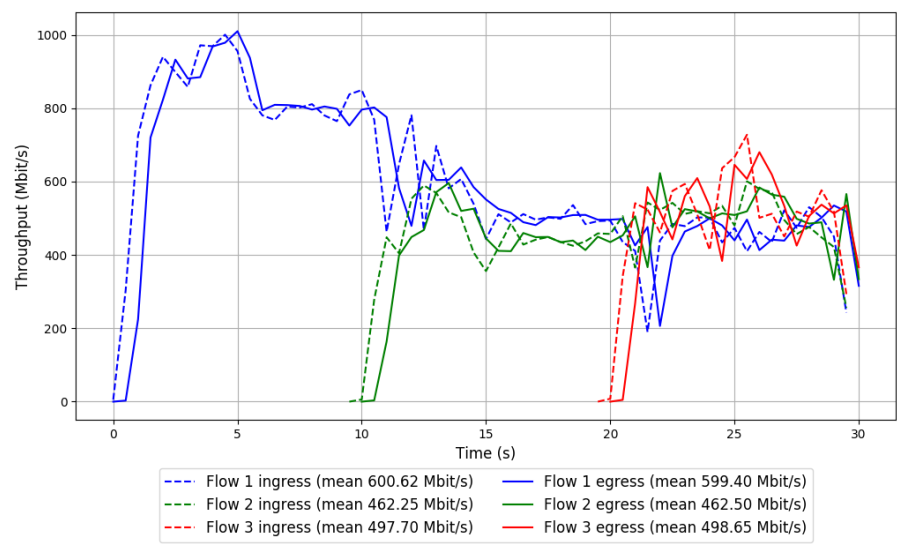
Run 5: Statistics of FillP-Sheep

Start at: 2018-07-20 09:07:35  
End at: 2018-07-20 09:08:05  
Local clock offset: -0.289 ms  
Remote clock offset: -0.203 ms

# Below is generated by plot.py at 2018-07-20 12:52:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1072.69 Mbit/s  
95th percentile per-packet one-way delay: 188.353 ms  
Loss rate: 0.13%  
-- Flow 1:  
Average throughput: 599.40 Mbit/s  
95th percentile per-packet one-way delay: 184.370 ms  
Loss rate: 0.24%  
-- Flow 2:  
Average throughput: 462.50 Mbit/s  
95th percentile per-packet one-way delay: 192.947 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 498.65 Mbit/s  
95th percentile per-packet one-way delay: 97.952 ms  
Loss rate: 0.00%



Run 5: Report of FillP-Sheep — Data Link

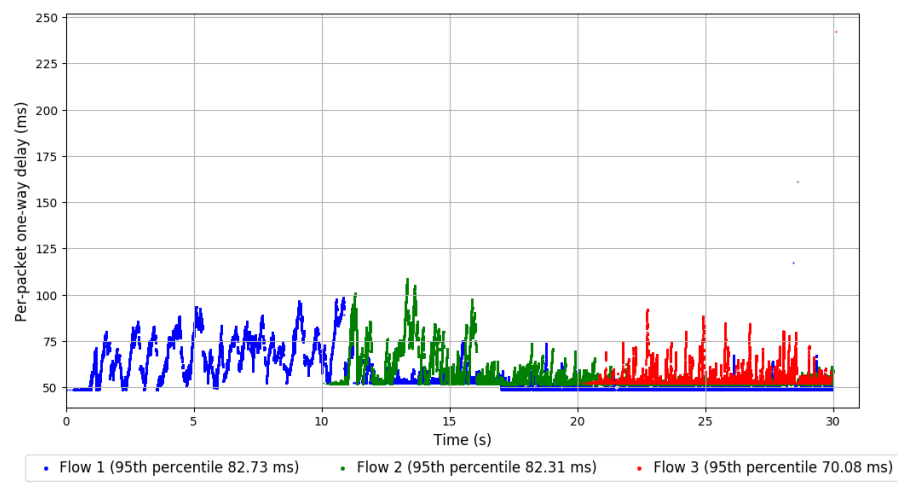
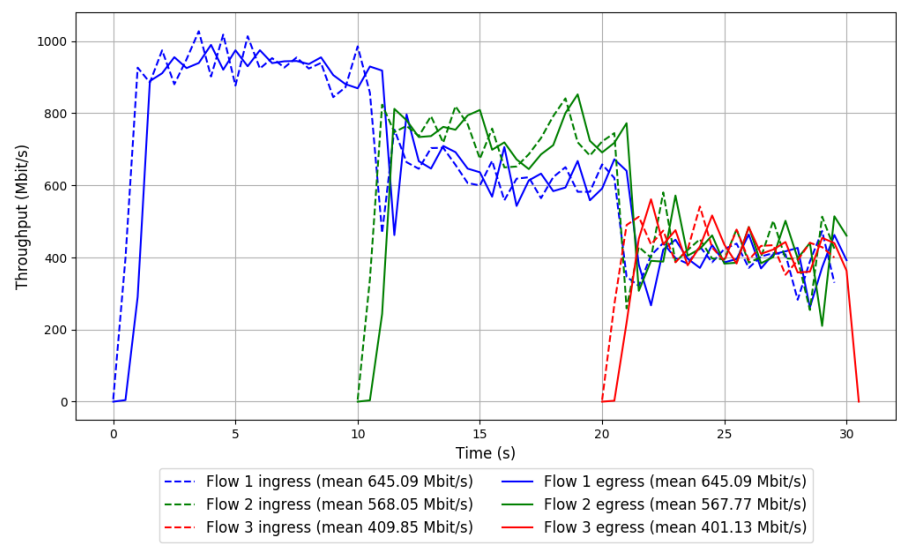


Run 6: Statistics of FillP-Sheep

Start at: 2018-07-20 09:32:50  
End at: 2018-07-20 09:33:20  
Local clock offset: -0.059 ms  
Remote clock offset: -1.405 ms

# Below is generated by plot.py at 2018-07-20 12:54:31  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1152.40 Mbit/s  
95th percentile per-packet one-way delay: 81.924 ms  
Loss rate: 0.12%  
-- Flow 1:  
Average throughput: 645.09 Mbit/s  
95th percentile per-packet one-way delay: 82.733 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 567.77 Mbit/s  
95th percentile per-packet one-way delay: 82.305 ms  
Loss rate: 0.03%  
-- Flow 3:  
Average throughput: 401.13 Mbit/s  
95th percentile per-packet one-way delay: 70.084 ms  
Loss rate: 0.98%

Run 6: Report of FillP-Sheep — Data Link



Run 7: Statistics of FillP-Sheep

Start at: 2018-07-20 09:57:59

End at: 2018-07-20 09:58:29

Local clock offset: 0.0 ms

Remote clock offset: 0.108 ms

# Below is generated by plot.py at 2018-07-20 13:12:19

# Datalink statistics

-- Total of 3 flows:

Average throughput: 1038.57 Mbit/s

95th percentile per-packet one-way delay: 70.468 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 546.72 Mbit/s

95th percentile per-packet one-way delay: 61.488 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 507.45 Mbit/s

95th percentile per-packet one-way delay: 84.279 ms

Loss rate: 0.00%

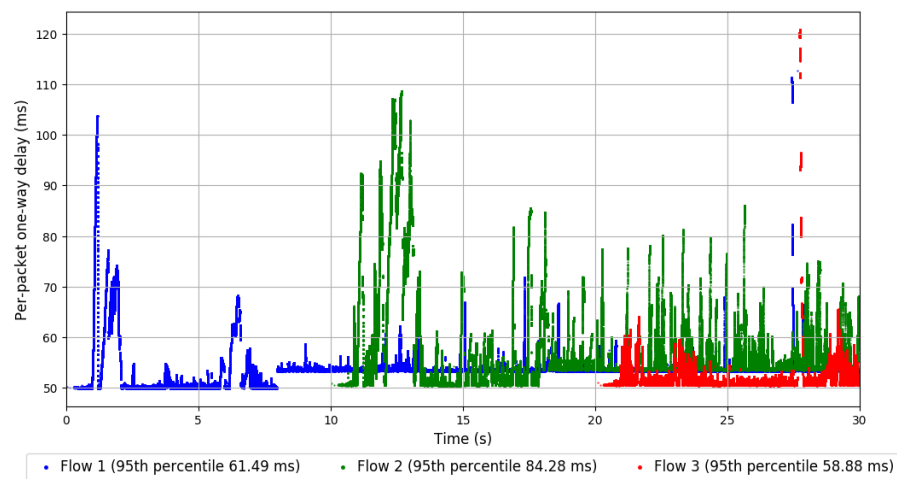
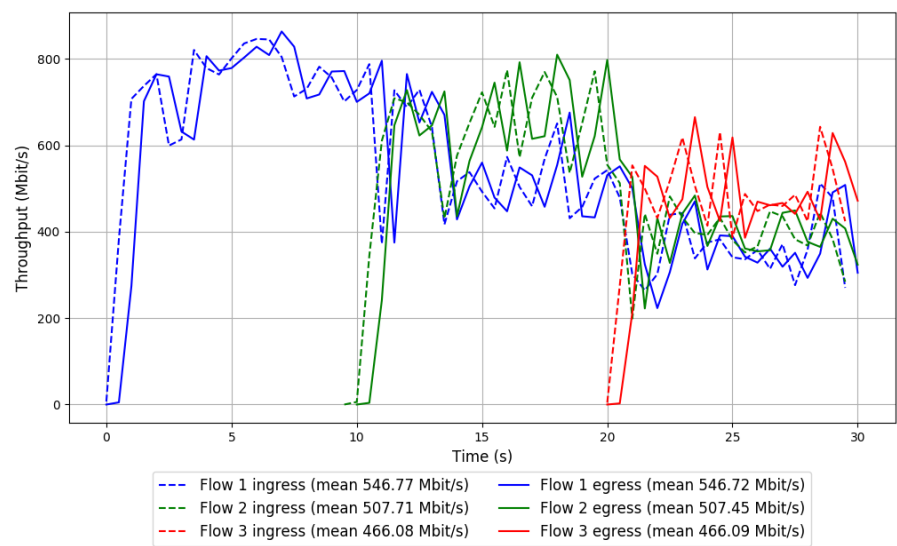
-- Flow 3:

Average throughput: 466.09 Mbit/s

95th percentile per-packet one-way delay: 58.878 ms

Loss rate: 0.00%

Run 7: Report of FillP-Sheep — Data Link



Run 8: Statistics of FillP-Sheep

Start at: 2018-07-20 10:22:54

End at: 2018-07-20 10:23:24

Local clock offset: -0.097 ms

Remote clock offset: 0.13 ms

# Below is generated by plot.py at 2018-07-20 13:16:42

# Datalink statistics

-- Total of 3 flows:

Average throughput: 1183.43 Mbit/s

95th percentile per-packet one-way delay: 130.552 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 636.18 Mbit/s

95th percentile per-packet one-way delay: 131.674 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 632.26 Mbit/s

95th percentile per-packet one-way delay: 91.199 ms

Loss rate: 0.05%

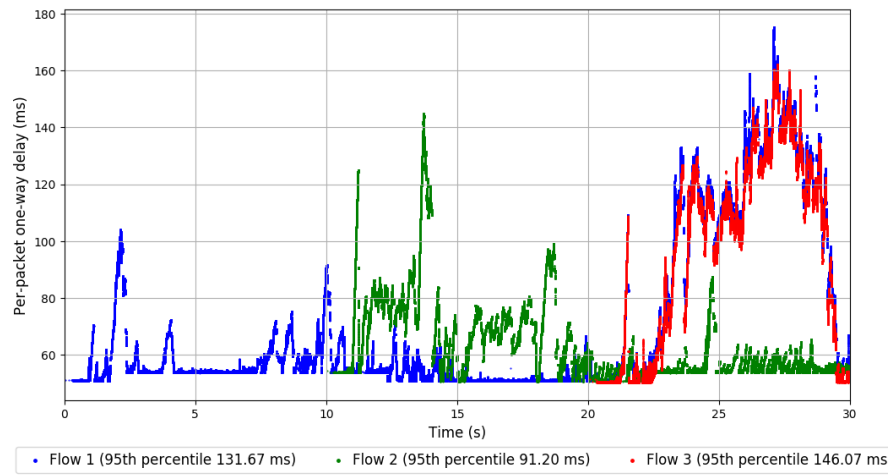
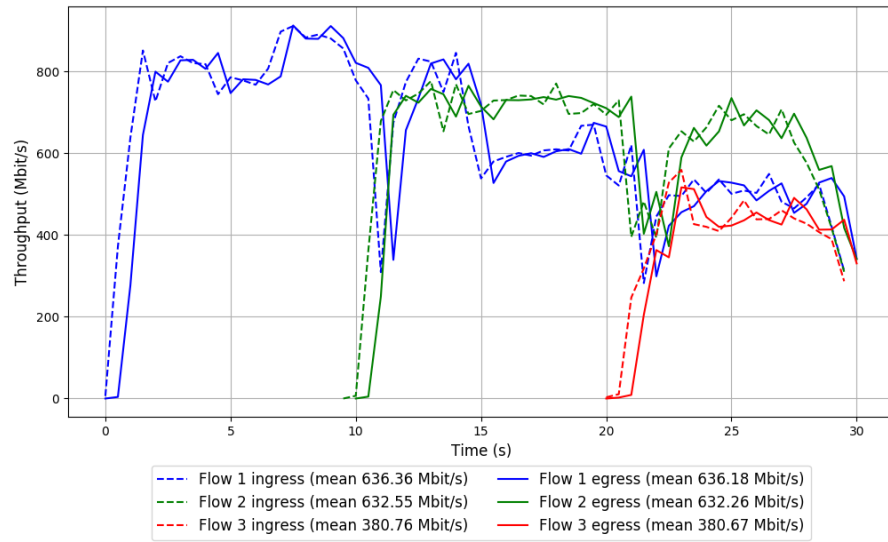
-- Flow 3:

Average throughput: 380.67 Mbit/s

95th percentile per-packet one-way delay: 146.071 ms

Loss rate: 0.00%

## Run 8: Report of FillP-Sheep — Data Link



Run 9: Statistics of FillP-Sheep

Start at: 2018-07-20 10:47:46

End at: 2018-07-20 10:48:16

Local clock offset: 0.022 ms

Remote clock offset: 0.134 ms

# Below is generated by plot.py at 2018-07-20 13:19:24

# Datalink statistics

-- Total of 3 flows:

Average throughput: 1168.04 Mbit/s

95th percentile per-packet one-way delay: 83.346 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 625.22 Mbit/s

95th percentile per-packet one-way delay: 91.547 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 587.76 Mbit/s

95th percentile per-packet one-way delay: 72.936 ms

Loss rate: 0.00%

-- Flow 3:

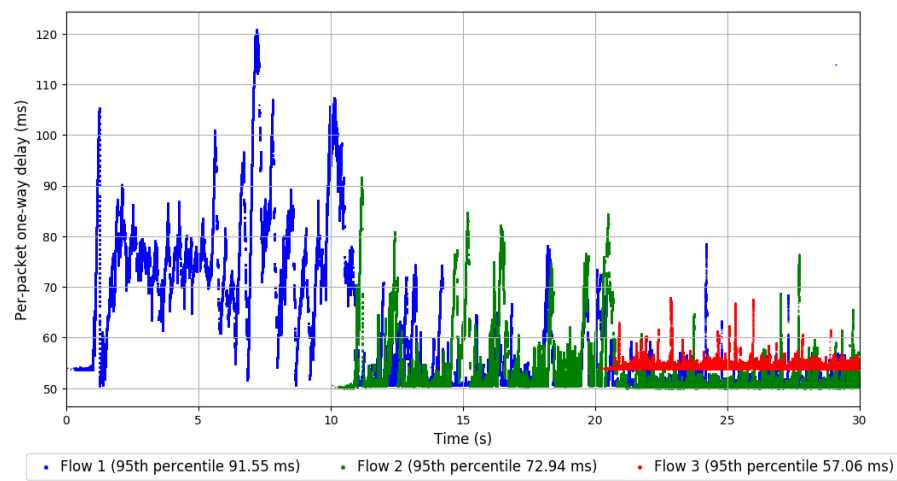
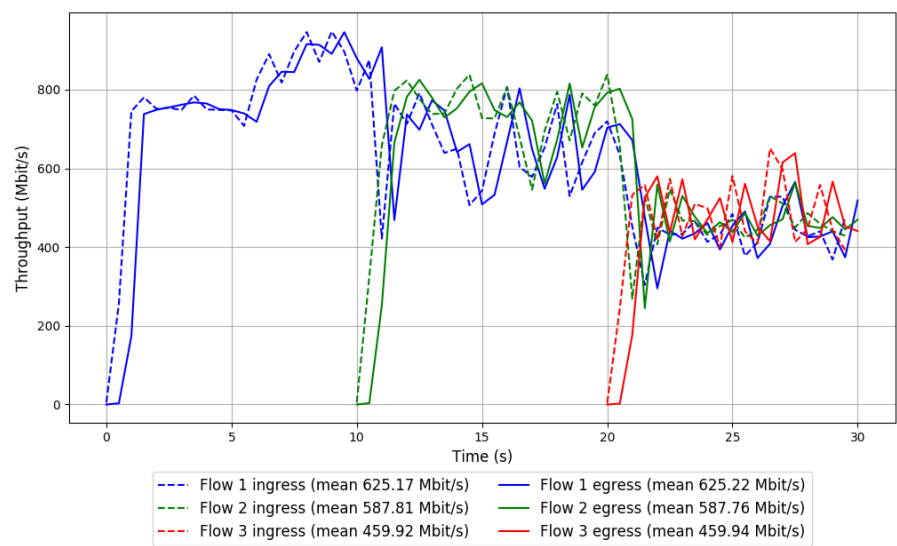
Average throughput: 459.94 Mbit/s

95th percentile per-packet one-way delay: 57.065 ms

Loss rate: 0.00%



Run 9: Report of FillP-Sheep — Data Link

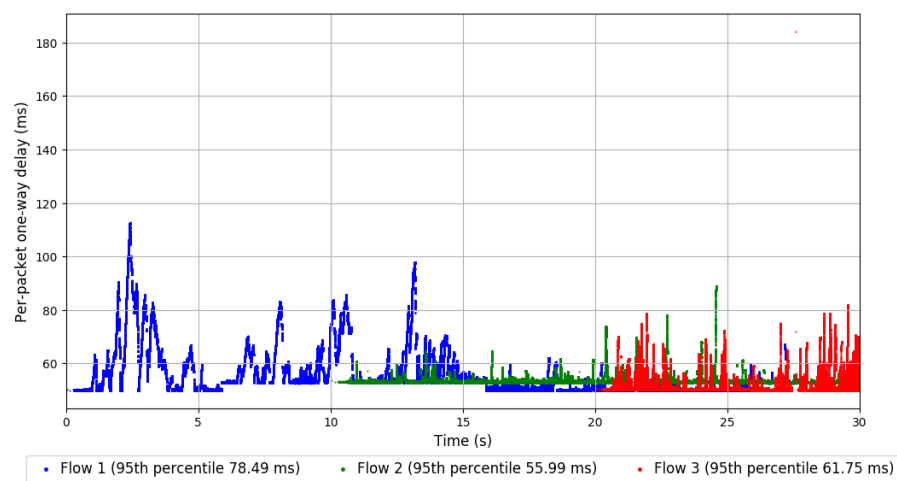
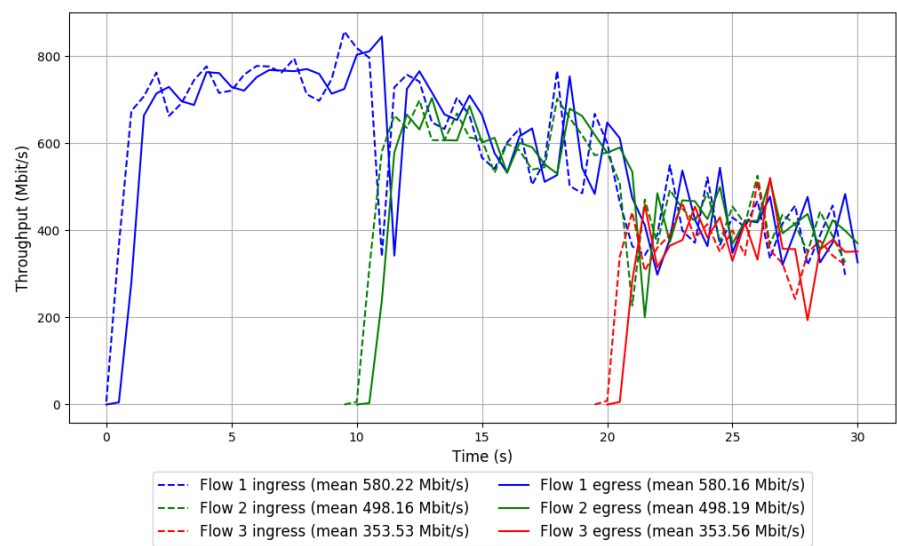


Run 10: Statistics of FillP-Sheep

Start at: 2018-07-20 11:12:41  
End at: 2018-07-20 11:13:11  
Local clock offset: -0.02 ms  
Remote clock offset: -0.312 ms

# Below is generated by plot.py at 2018-07-20 13:19:24  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1029.15 Mbit/s  
95th percentile per-packet one-way delay: 71.951 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 580.16 Mbit/s  
95th percentile per-packet one-way delay: 78.490 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 498.19 Mbit/s  
95th percentile per-packet one-way delay: 55.986 ms  
Loss rate: 0.01%  
-- Flow 3:  
Average throughput: 353.56 Mbit/s  
95th percentile per-packet one-way delay: 61.746 ms  
Loss rate: 0.00%

Run 10: Report of FillP-Sheep — Data Link

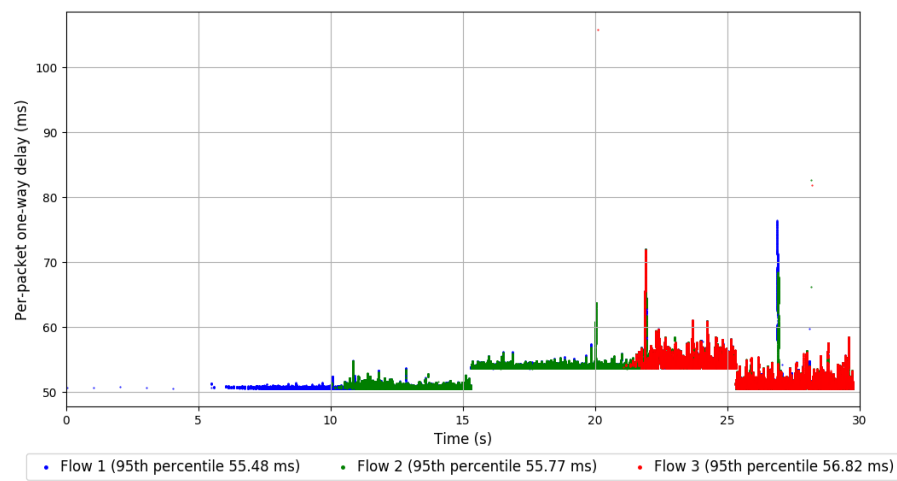
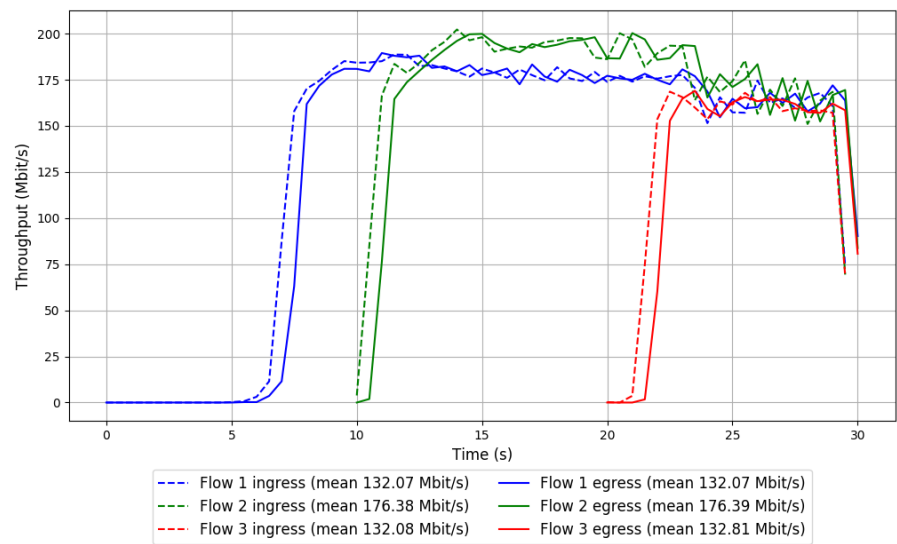


Run 1: Statistics of Indigo

Start at: 2018-07-20 07:29:41  
End at: 2018-07-20 07:30:11  
Local clock offset: -0.303 ms  
Remote clock offset: -0.054 ms

# Below is generated by plot.py at 2018-07-20 13:19:24  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 292.14 Mbit/s  
95th percentile per-packet one-way delay: 55.891 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 132.07 Mbit/s  
95th percentile per-packet one-way delay: 55.480 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 176.39 Mbit/s  
95th percentile per-packet one-way delay: 55.771 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 132.81 Mbit/s  
95th percentile per-packet one-way delay: 56.817 ms  
Loss rate: 0.01%

Run 1: Report of Indigo — Data Link

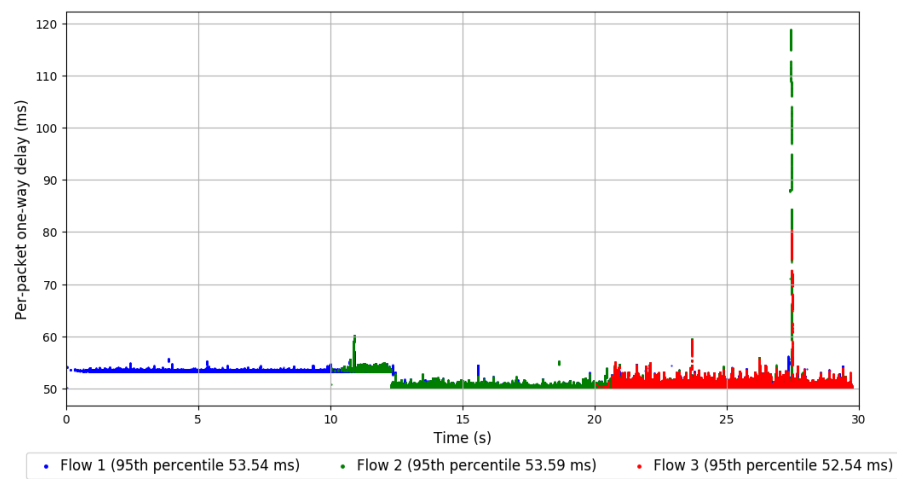
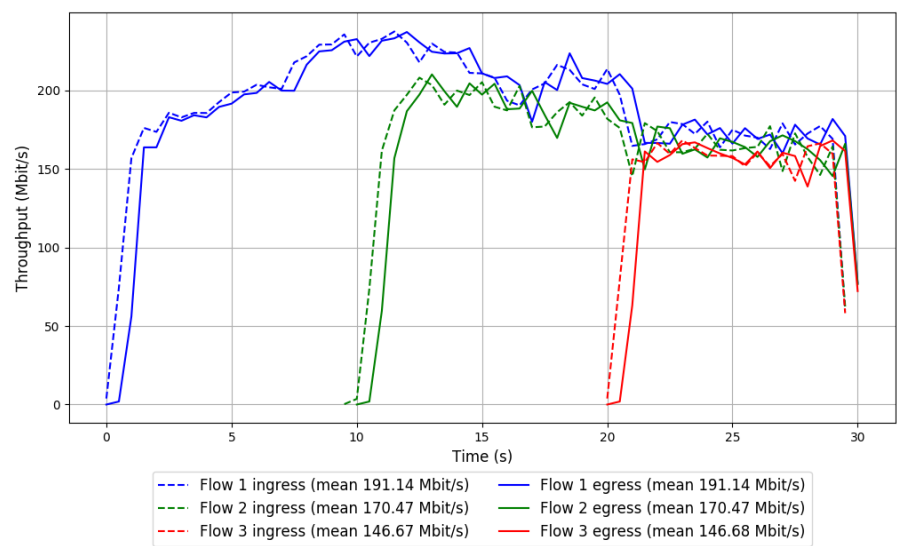


Run 2: Statistics of Indigo

Start at: 2018-07-20 07:54:54  
End at: 2018-07-20 07:55:24  
Local clock offset: -0.077 ms  
Remote clock offset: -0.212 ms

# Below is generated by plot.py at 2018-07-20 13:19:24  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 352.10 Mbit/s  
95th percentile per-packet one-way delay: 53.532 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 191.14 Mbit/s  
95th percentile per-packet one-way delay: 53.541 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 170.47 Mbit/s  
95th percentile per-packet one-way delay: 53.595 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 146.68 Mbit/s  
95th percentile per-packet one-way delay: 52.536 ms  
Loss rate: 0.00%

Run 2: Report of Indigo — Data Link



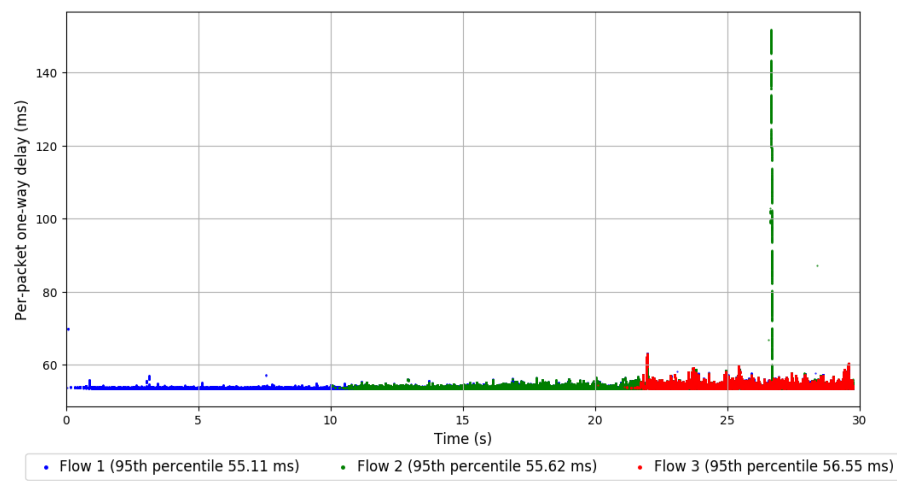
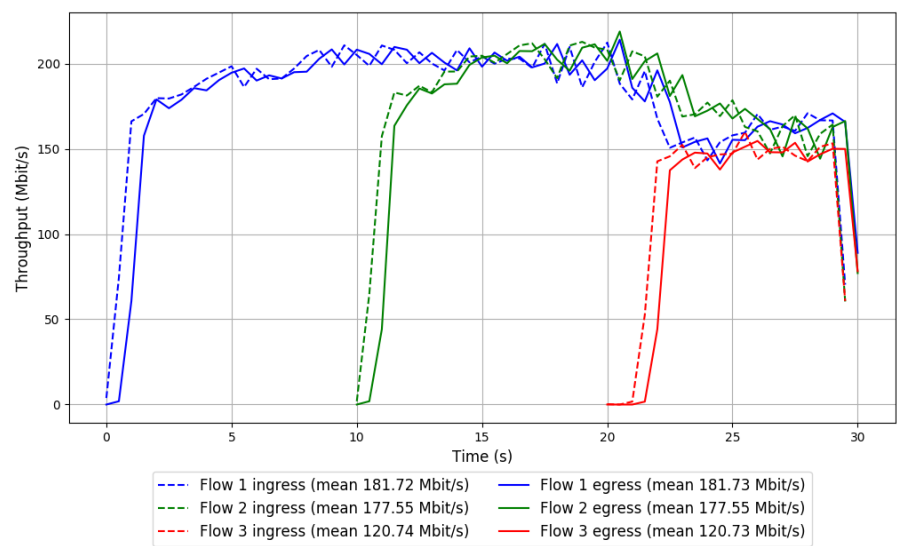
Run 3: Statistics of Indigo

Start at: 2018-07-20 08:19:45  
End at: 2018-07-20 08:20:15  
Local clock offset: -0.143 ms  
Remote clock offset: -0.007 ms

# Below is generated by plot.py at 2018-07-20 13:19:24  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 338.61 Mbit/s  
95th percentile per-packet one-way delay: 55.524 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 181.73 Mbit/s  
95th percentile per-packet one-way delay: 55.108 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 177.55 Mbit/s  
95th percentile per-packet one-way delay: 55.625 ms  
Loss rate: 0.02%  
-- Flow 3:  
Average throughput: 120.73 Mbit/s  
95th percentile per-packet one-way delay: 56.552 ms  
Loss rate: 0.04%



Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-07-20 08:44:46

End at: 2018-07-20 08:45:16

Local clock offset: 0.005 ms

Remote clock offset: 0.074 ms

# Below is generated by plot.py at 2018-07-20 13:19:24

# Datalink statistics

-- Total of 3 flows:

Average throughput: 334.76 Mbit/s

95th percentile per-packet one-way delay: 56.319 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 174.51 Mbit/s

95th percentile per-packet one-way delay: 55.548 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 169.32 Mbit/s

95th percentile per-packet one-way delay: 56.586 ms

Loss rate: 0.00%

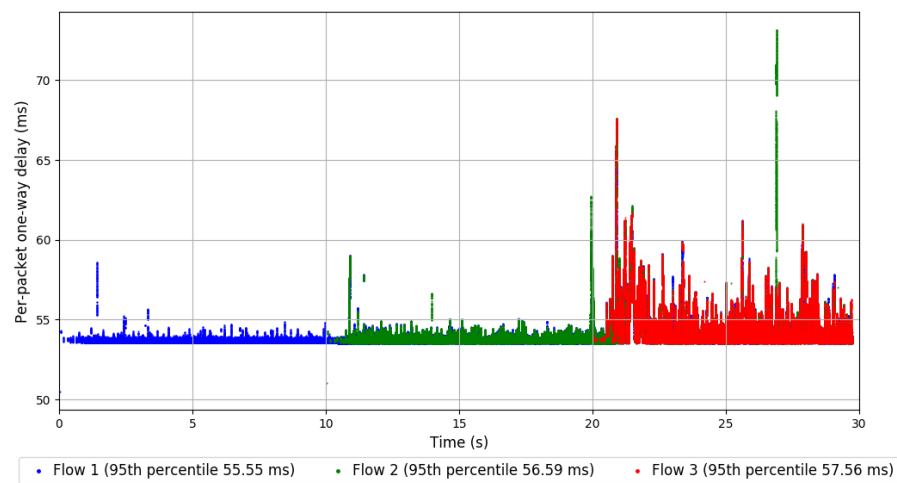
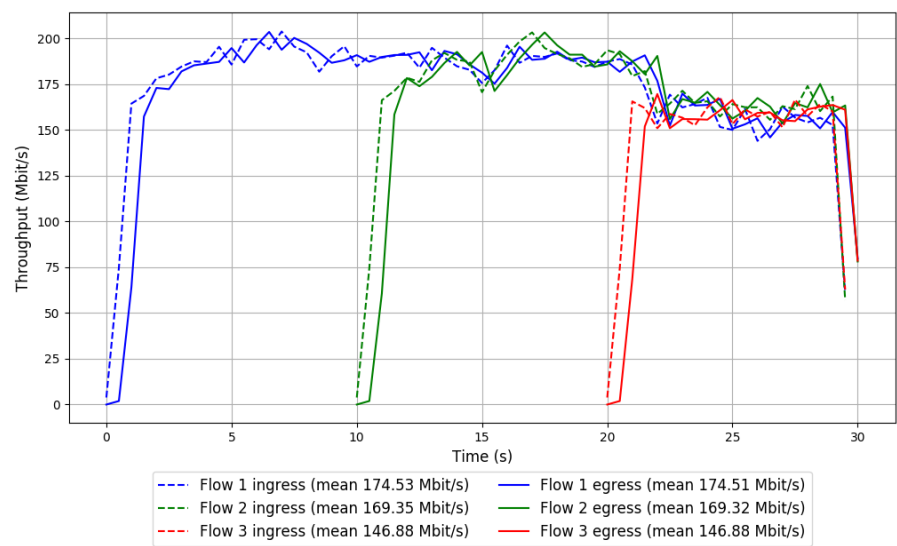
-- Flow 3:

Average throughput: 146.88 Mbit/s

95th percentile per-packet one-way delay: 57.559 ms

Loss rate: 0.00%

Run 4: Report of Indigo — Data Link

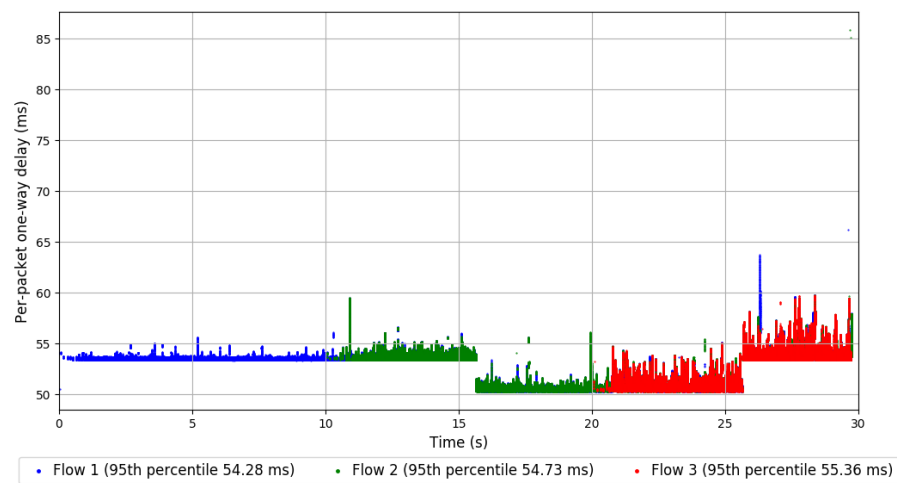
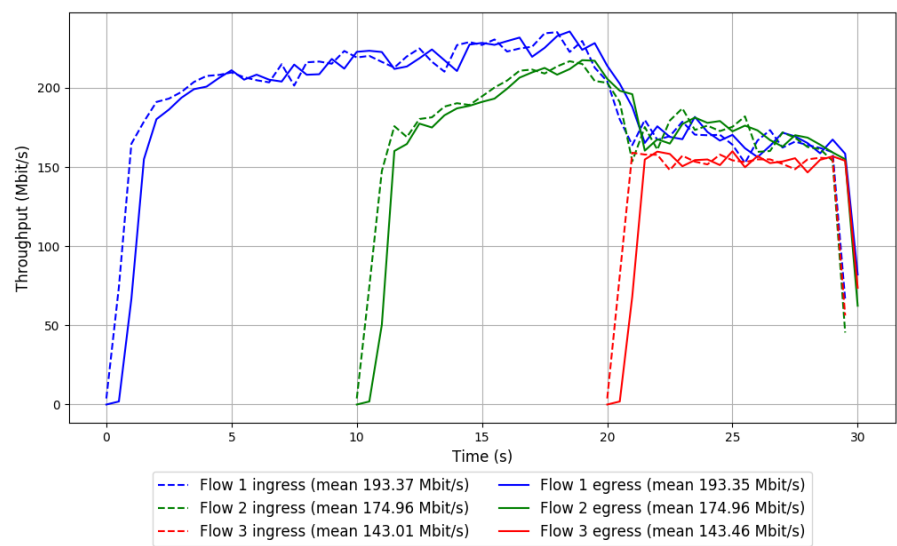


Run 5: Statistics of Indigo

Start at: 2018-07-20 09:09:41  
End at: 2018-07-20 09:10:11  
Local clock offset: -0.074 ms  
Remote clock offset: -0.139 ms

# Below is generated by plot.py at 2018-07-20 13:19:24  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 355.96 Mbit/s  
95th percentile per-packet one-way delay: 54.587 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 193.35 Mbit/s  
95th percentile per-packet one-way delay: 54.280 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 174.96 Mbit/s  
95th percentile per-packet one-way delay: 54.734 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 143.46 Mbit/s  
95th percentile per-packet one-way delay: 55.357 ms  
Loss rate: 0.00%

Run 5: Report of Indigo — Data Link

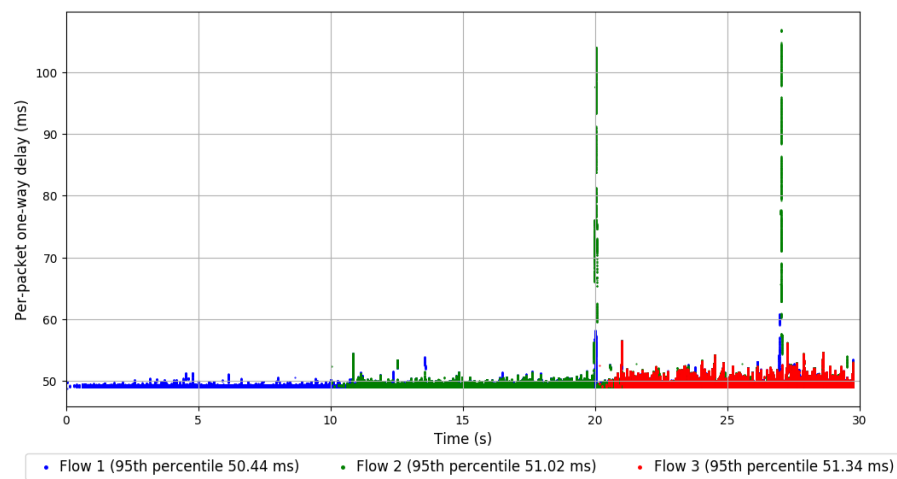
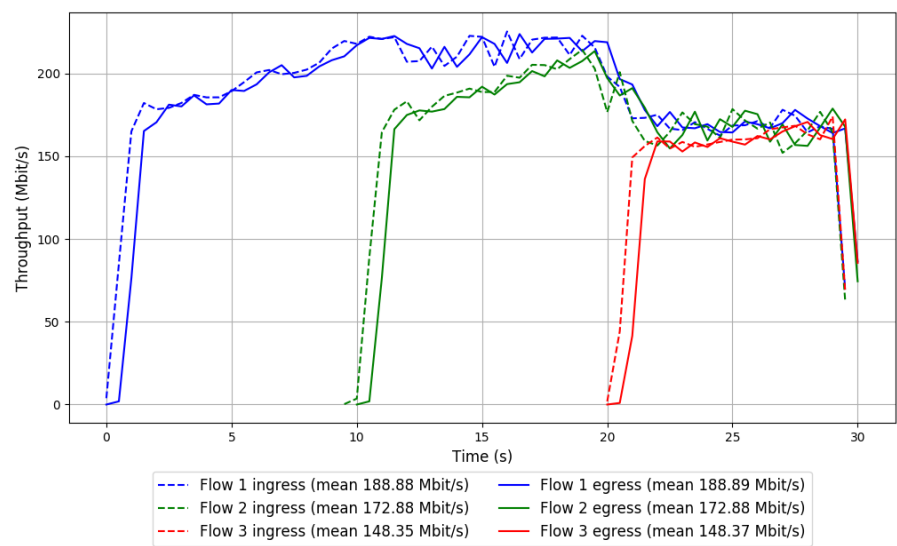


Run 6: Statistics of Indigo

Start at: 2018-07-20 09:34:48  
End at: 2018-07-20 09:35:18  
Local clock offset: 0.116 ms  
Remote clock offset: -1.222 ms

# Below is generated by plot.py at 2018-07-20 13:19:24  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 351.48 Mbit/s  
95th percentile per-packet one-way delay: 50.818 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 188.89 Mbit/s  
95th percentile per-packet one-way delay: 50.441 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 172.88 Mbit/s  
95th percentile per-packet one-way delay: 51.017 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 148.37 Mbit/s  
95th percentile per-packet one-way delay: 51.335 ms  
Loss rate: 0.00%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2018-07-20 09:59:51

End at: 2018-07-20 10:00:21

Local clock offset: 0.012 ms

Remote clock offset: 0.185 ms

# Below is generated by plot.py at 2018-07-20 13:19:25

# Datalink statistics

-- Total of 3 flows:

Average throughput: 354.04 Mbit/s

95th percentile per-packet one-way delay: 54.298 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 191.69 Mbit/s

95th percentile per-packet one-way delay: 54.083 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 170.38 Mbit/s

95th percentile per-packet one-way delay: 54.395 ms

Loss rate: 0.00%

-- Flow 3:

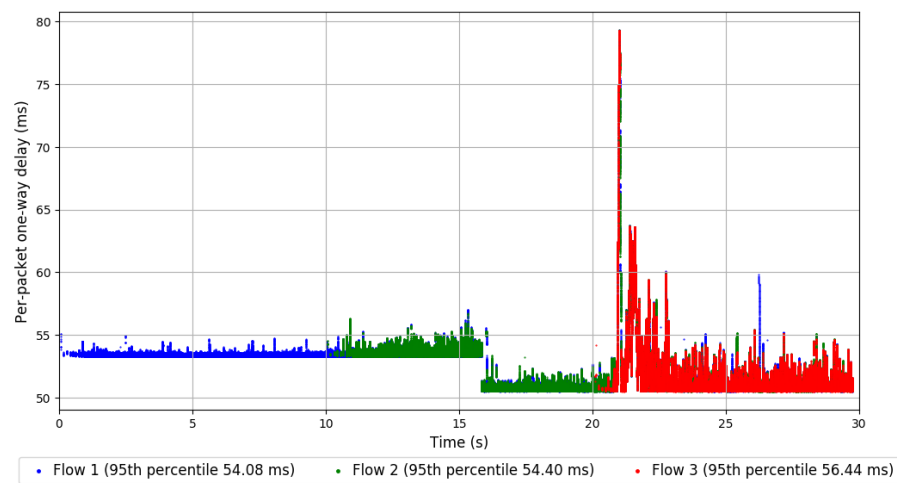
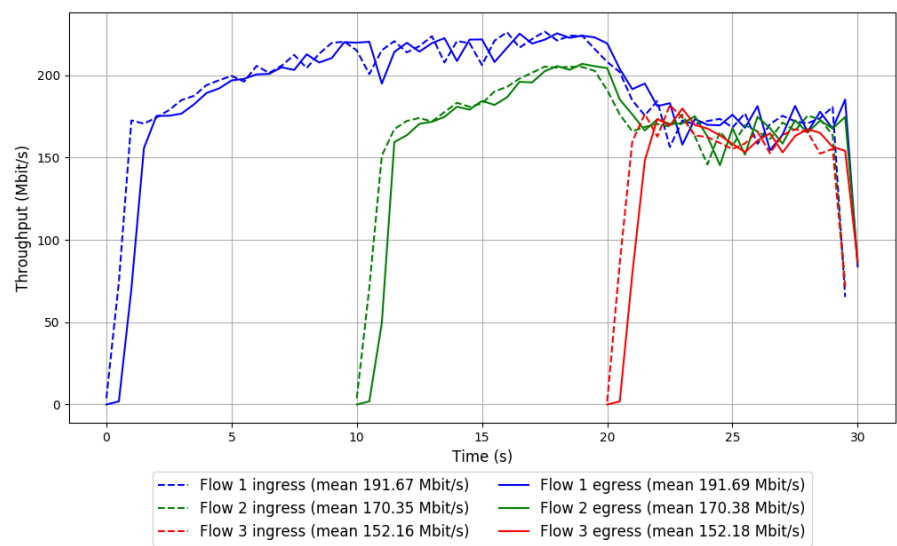
Average throughput: 152.18 Mbit/s

95th percentile per-packet one-way delay: 56.441 ms

Loss rate: 0.00%



Run 7: Report of Indigo — Data Link

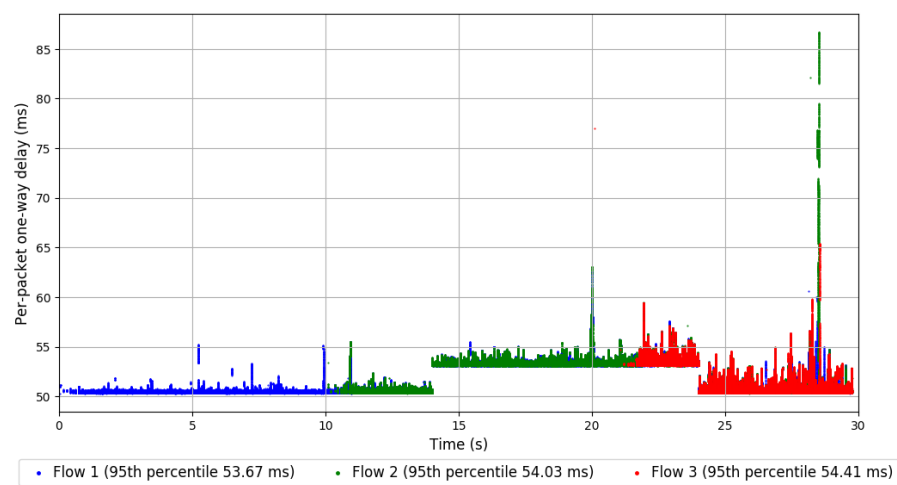
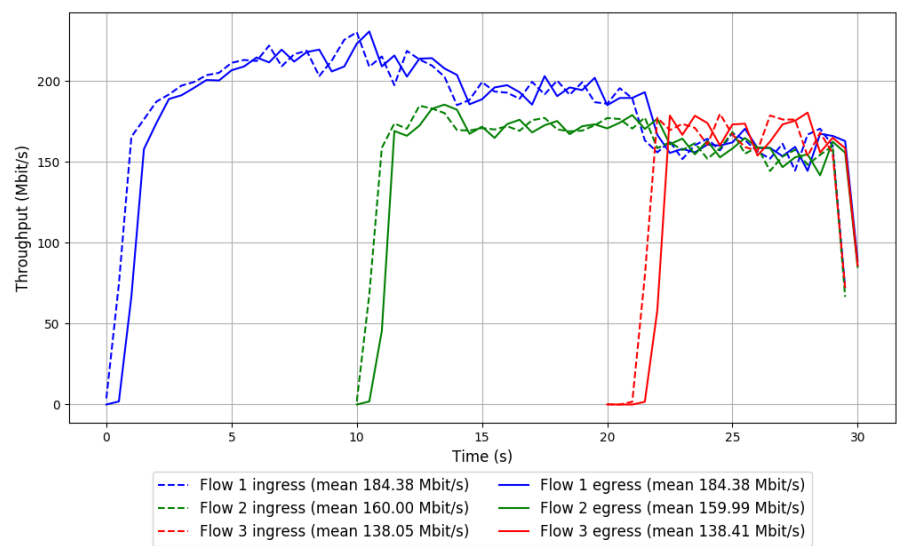


Run 8: Statistics of Indigo

Start at: 2018-07-20 10:24:53  
End at: 2018-07-20 10:25:23  
Local clock offset: -0.192 ms  
Remote clock offset: -0.136 ms

# Below is generated by plot.py at 2018-07-20 13:19:25  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 335.23 Mbit/s  
95th percentile per-packet one-way delay: 53.897 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 184.38 Mbit/s  
95th percentile per-packet one-way delay: 53.675 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 159.99 Mbit/s  
95th percentile per-packet one-way delay: 54.032 ms  
Loss rate: 0.01%  
-- Flow 3:  
Average throughput: 138.41 Mbit/s  
95th percentile per-packet one-way delay: 54.405 ms  
Loss rate: 0.02%

Run 8: Report of Indigo — Data Link

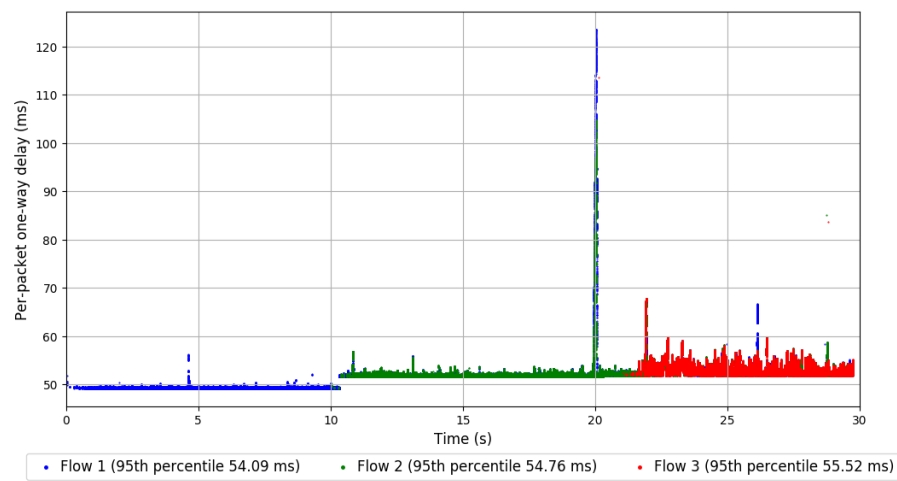
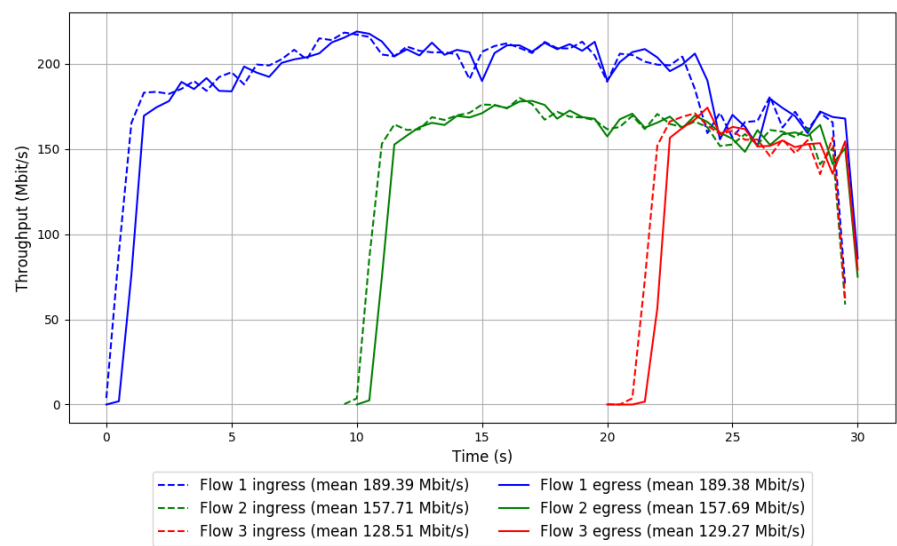


Run 9: Statistics of Indigo

Start at: 2018-07-20 10:49:46  
End at: 2018-07-20 10:50:16  
Local clock offset: -0.168 ms  
Remote clock offset: -1.436 ms

# Below is generated by plot.py at 2018-07-20 13:19:25  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 335.87 Mbit/s  
95th percentile per-packet one-way delay: 54.628 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 189.38 Mbit/s  
95th percentile per-packet one-way delay: 54.087 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 157.69 Mbit/s  
95th percentile per-packet one-way delay: 54.757 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 129.27 Mbit/s  
95th percentile per-packet one-way delay: 55.515 ms  
Loss rate: 0.01%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-07-20 11:14:36

End at: 2018-07-20 11:15:06

Local clock offset: -0.297 ms

Remote clock offset: 0.119 ms

# Below is generated by plot.py at 2018-07-20 13:19:25

# Datalink statistics

-- Total of 3 flows:

Average throughput: 334.58 Mbit/s

95th percentile per-packet one-way delay: 53.719 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 178.98 Mbit/s

95th percentile per-packet one-way delay: 53.751 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 164.94 Mbit/s

95th percentile per-packet one-way delay: 52.691 ms

Loss rate: 0.00%

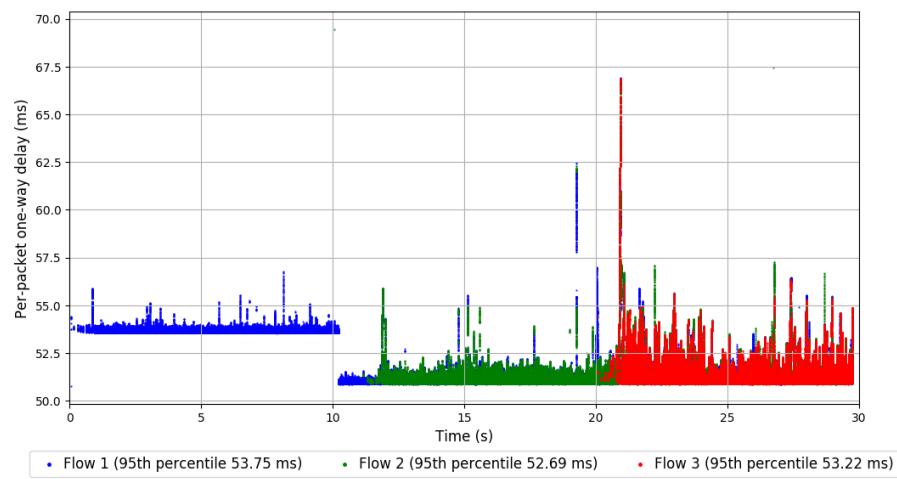
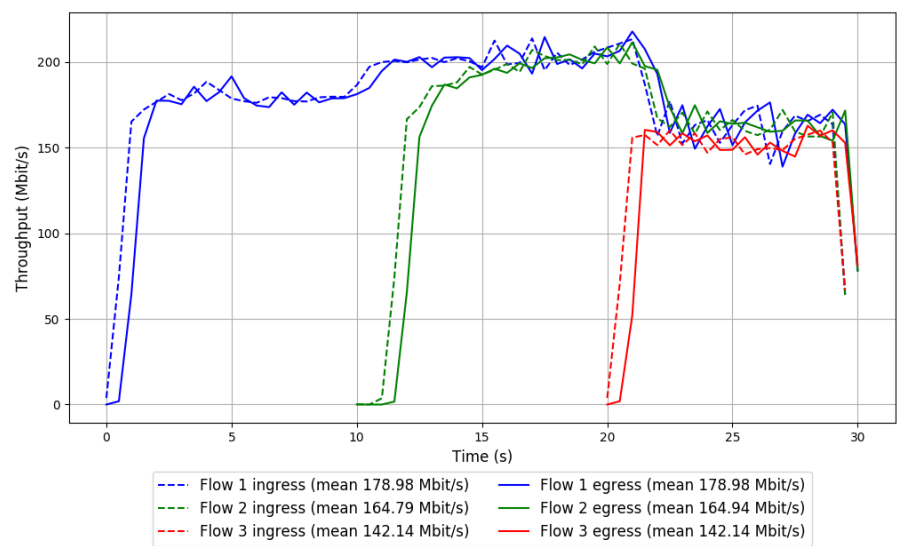
-- Flow 3:

Average throughput: 142.14 Mbit/s

95th percentile per-packet one-way delay: 53.219 ms

Loss rate: 0.00%

Run 10: Report of Indigo — Data Link



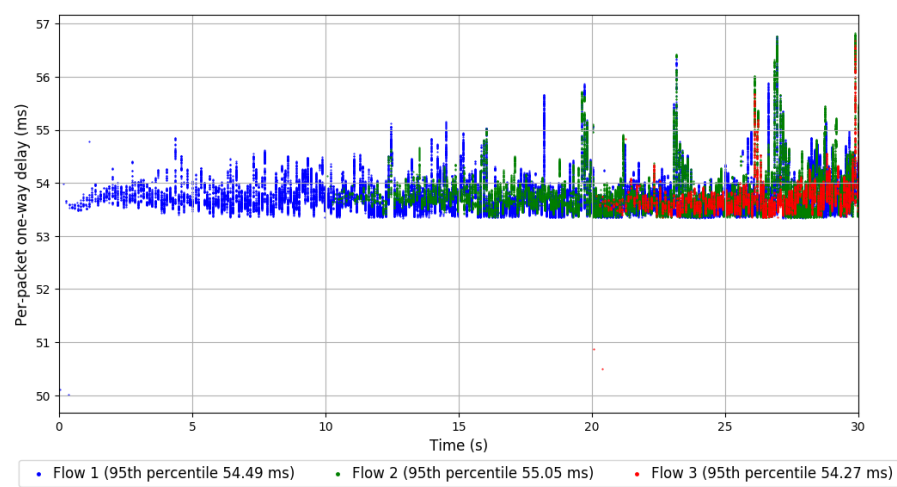
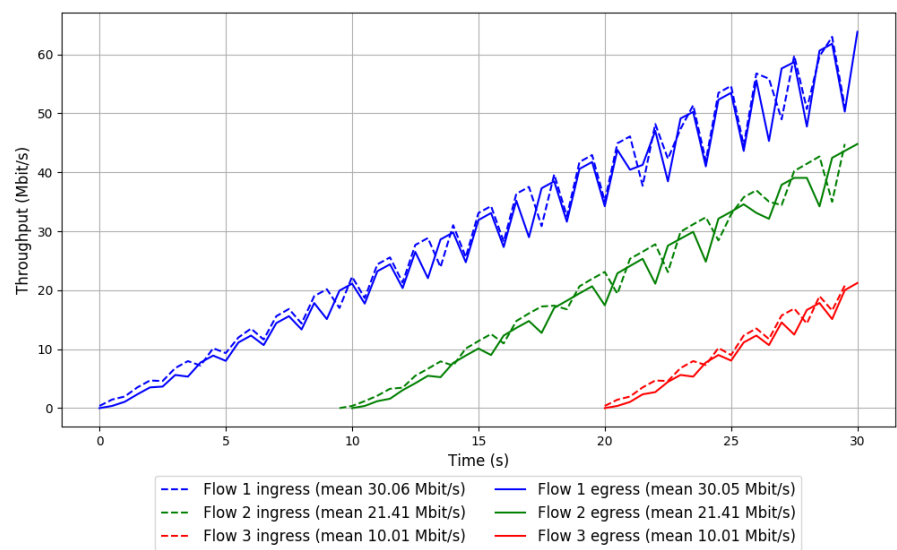
Run 1: Statistics of LEDBAT

Start at: 2018-07-20 07:17:12  
End at: 2018-07-20 07:17:42  
Local clock offset: -0.2 ms  
Remote clock offset: -0.217 ms

# Below is generated by plot.py at 2018-07-20 13:19:25  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 47.60 Mbit/s  
95th percentile per-packet one-way delay: 54.613 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 30.05 Mbit/s  
95th percentile per-packet one-way delay: 54.489 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 21.41 Mbit/s  
95th percentile per-packet one-way delay: 55.052 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 10.01 Mbit/s  
95th percentile per-packet one-way delay: 54.268 ms  
Loss rate: 0.00%



Run 1: Report of LEDBAT — Data Link

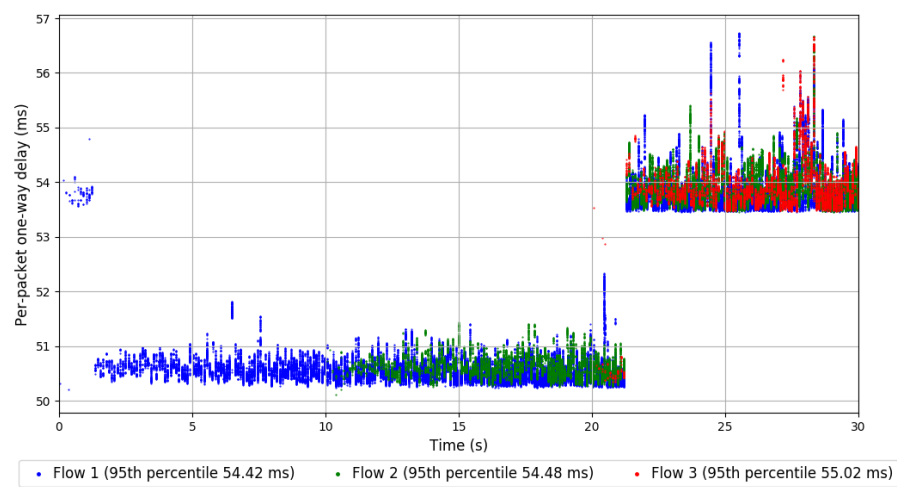
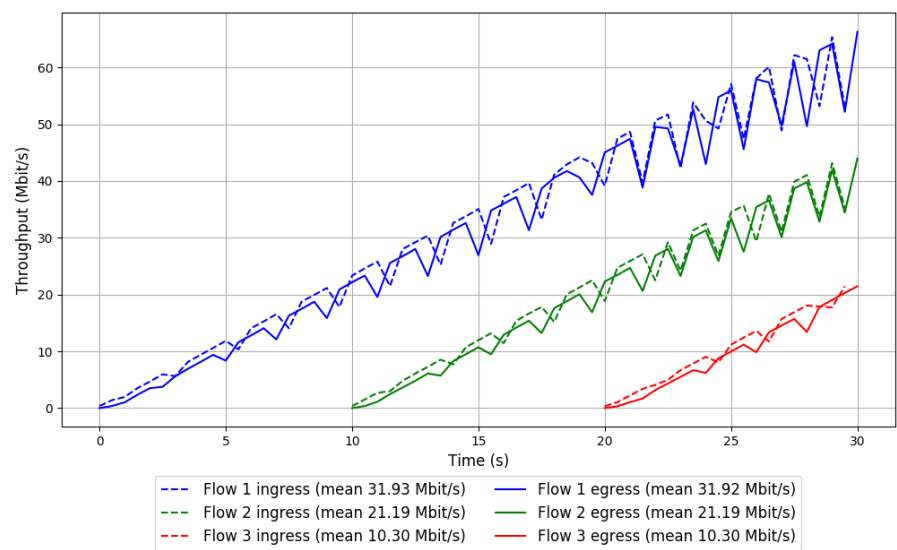


Run 2: Statistics of LEDBAT

Start at: 2018-07-20 07:42:15  
End at: 2018-07-20 07:42:45  
Local clock offset: -0.002 ms  
Remote clock offset: -0.088 ms

# Below is generated by plot.py at 2018-07-20 13:19:25  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 49.36 Mbit/s  
95th percentile per-packet one-way delay: 54.501 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 31.92 Mbit/s  
95th percentile per-packet one-way delay: 54.421 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 21.19 Mbit/s  
95th percentile per-packet one-way delay: 54.478 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 10.30 Mbit/s  
95th percentile per-packet one-way delay: 55.021 ms  
Loss rate: 0.00%

Run 2: Report of LEDBAT — Data Link

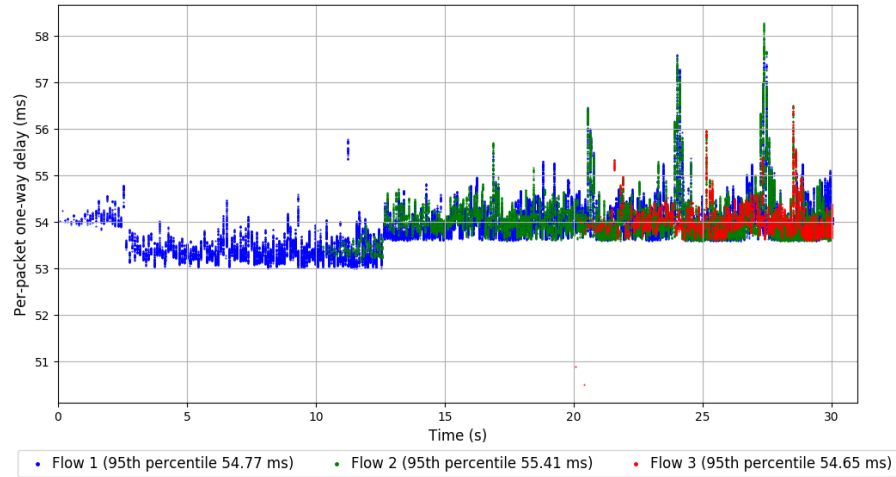
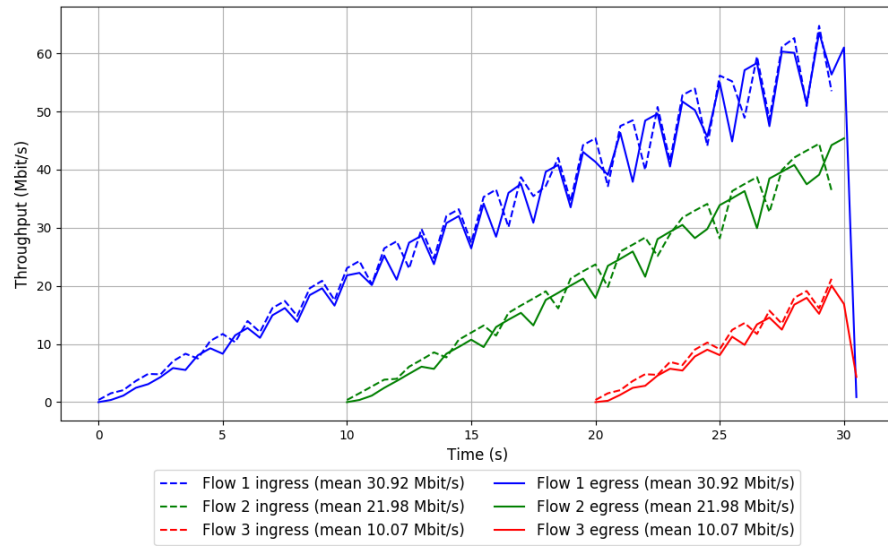


Run 3: Statistics of LEDBAT

Start at: 2018-07-20 08:07:04  
End at: 2018-07-20 08:07:34  
Local clock offset: -0.309 ms  
Remote clock offset: -0.174 ms

# Below is generated by plot.py at 2018-07-20 13:19:25  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 48.86 Mbit/s  
95th percentile per-packet one-way delay: 54.870 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 30.92 Mbit/s  
95th percentile per-packet one-way delay: 54.771 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 21.98 Mbit/s  
95th percentile per-packet one-way delay: 55.407 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 10.07 Mbit/s  
95th percentile per-packet one-way delay: 54.647 ms  
Loss rate: 0.00%

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

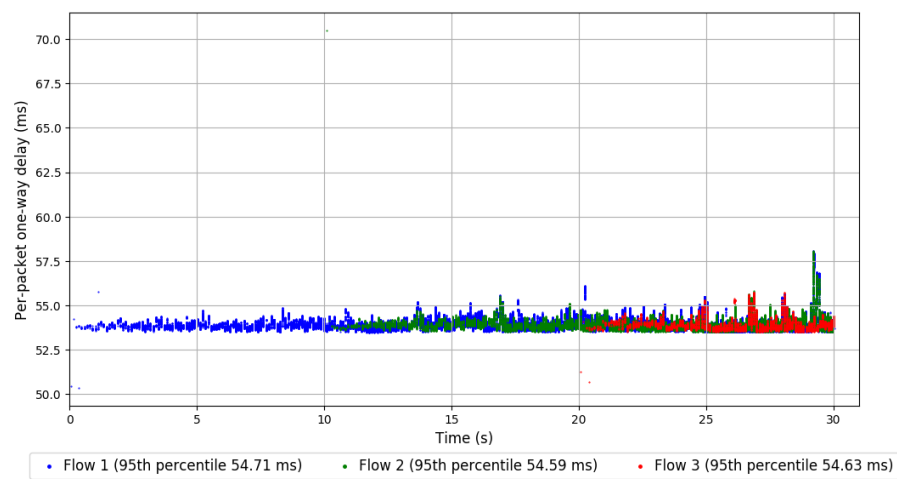
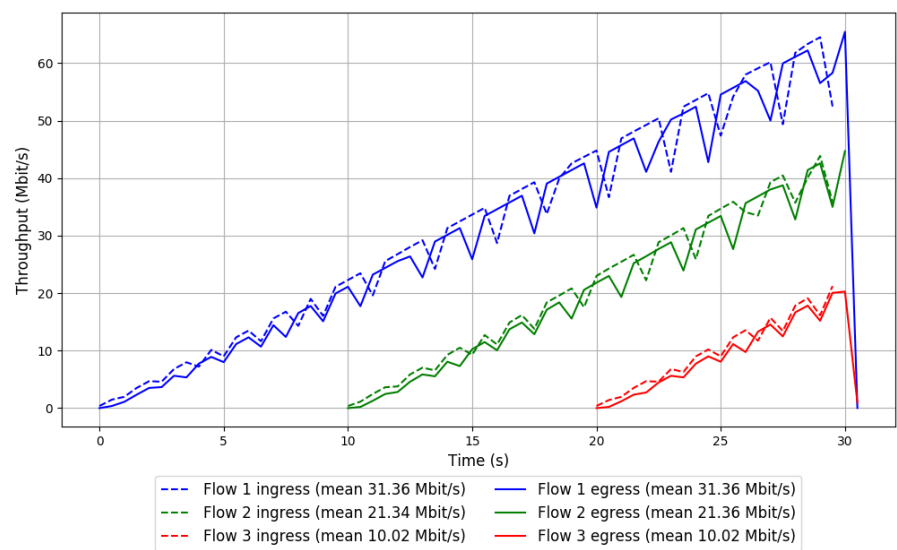


Run 4: Statistics of LEDBAT

Start at: 2018-07-20 08:32:14  
End at: 2018-07-20 08:32:44  
Local clock offset: -0.044 ms  
Remote clock offset: -0.054 ms

# Below is generated by plot.py at 2018-07-20 13:19:25  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 48.84 Mbit/s  
95th percentile per-packet one-way delay: 54.683 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 31.36 Mbit/s  
95th percentile per-packet one-way delay: 54.708 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 21.36 Mbit/s  
95th percentile per-packet one-way delay: 54.586 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 10.02 Mbit/s  
95th percentile per-packet one-way delay: 54.629 ms  
Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-07-20 08:56:57

End at: 2018-07-20 08:57:27

Local clock offset: -0.104 ms

Remote clock offset: 0.033 ms

# Below is generated by plot.py at 2018-07-20 13:19:25

# Datalink statistics

-- Total of 3 flows:

Average throughput: 51.70 Mbit/s

95th percentile per-packet one-way delay: 53.902 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 33.98 Mbit/s

95th percentile per-packet one-way delay: 54.037 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 21.53 Mbit/s

95th percentile per-packet one-way delay: 51.710 ms

Loss rate: 0.00%

-- Flow 3:

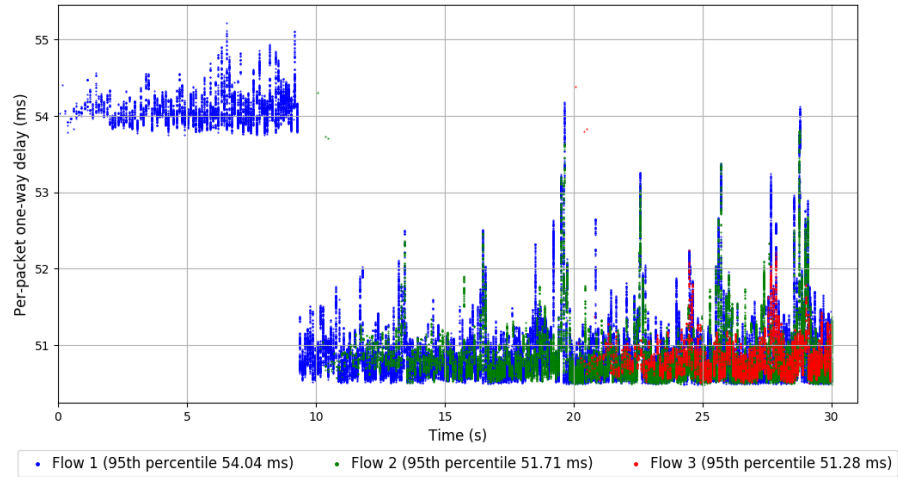
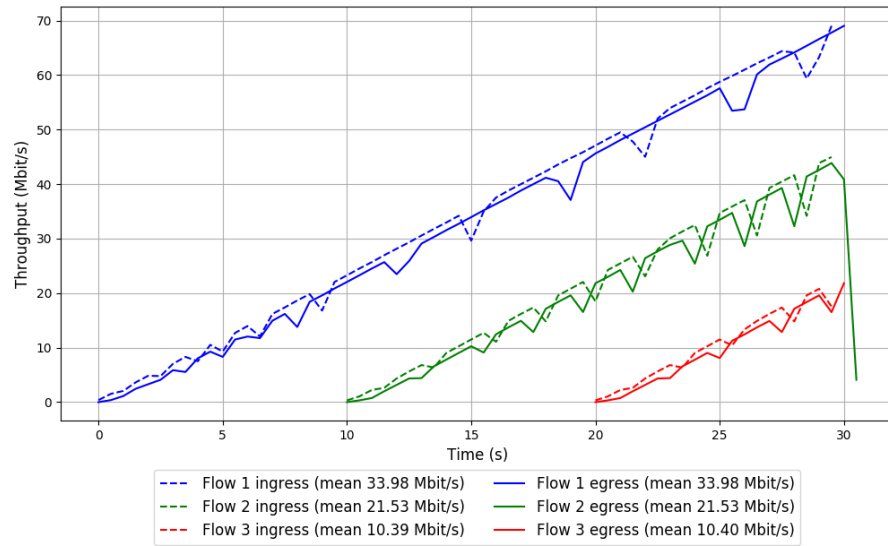
Average throughput: 10.40 Mbit/s

95th percentile per-packet one-way delay: 51.280 ms

Loss rate: 0.00%



## Run 5: Report of LEDBAT — Data Link

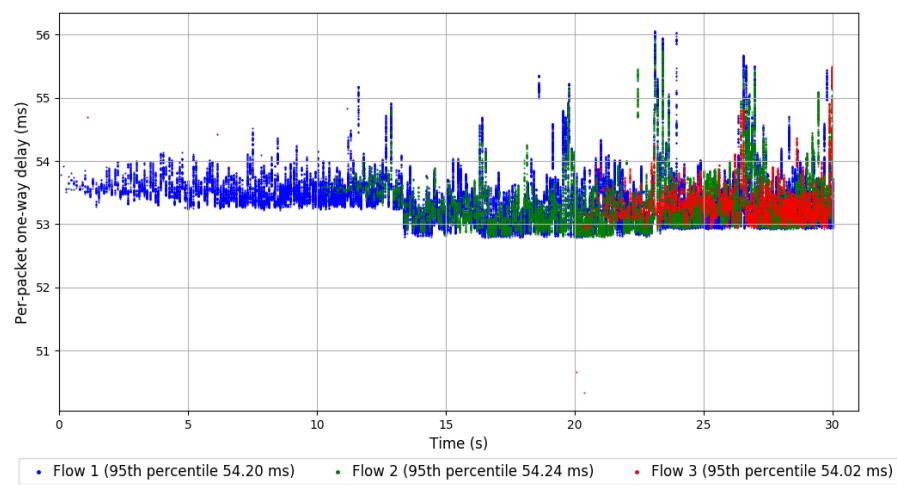
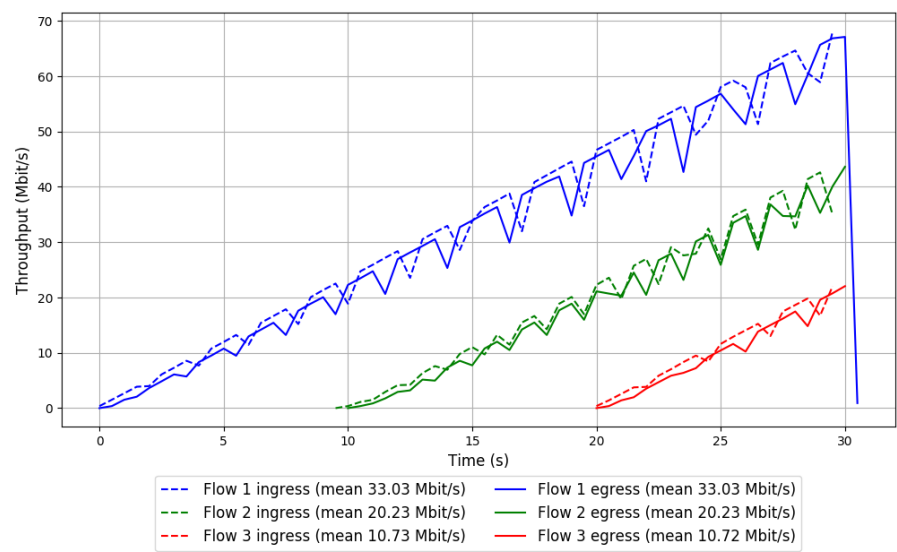


Run 6: Statistics of LEDBAT

Start at: 2018-07-20 09:22:13  
End at: 2018-07-20 09:22:43  
Local clock offset: 0.1 ms  
Remote clock offset: -0.138 ms

# Below is generated by plot.py at 2018-07-20 13:19:25  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 50.04 Mbit/s  
95th percentile per-packet one-way delay: 54.200 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 33.03 Mbit/s  
95th percentile per-packet one-way delay: 54.205 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 20.23 Mbit/s  
95th percentile per-packet one-way delay: 54.242 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 10.72 Mbit/s  
95th percentile per-packet one-way delay: 54.023 ms  
Loss rate: 0.00%

Run 6: Report of LEDBAT — Data Link

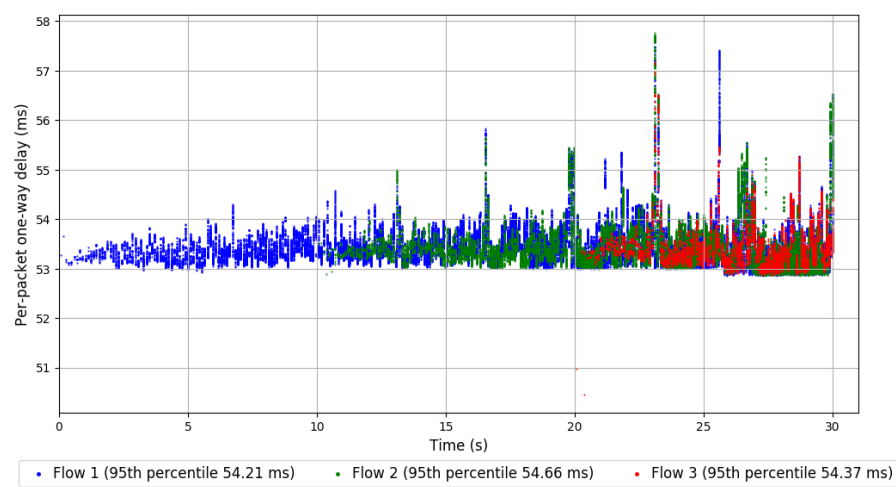
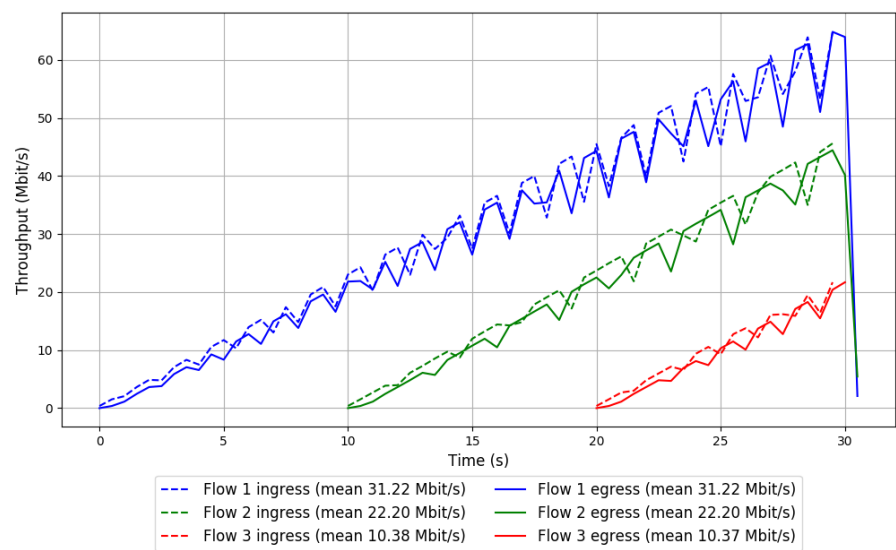


Run 7: Statistics of LEDBAT

Start at: 2018-07-20 09:47:21  
End at: 2018-07-20 09:47:51  
Local clock offset: 0.051 ms  
Remote clock offset: -0.137 ms

# Below is generated by plot.py at 2018-07-20 13:19:25  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 49.44 Mbit/s  
95th percentile per-packet one-way delay: 54.348 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 31.22 Mbit/s  
95th percentile per-packet one-way delay: 54.211 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 22.20 Mbit/s  
95th percentile per-packet one-way delay: 54.661 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 10.37 Mbit/s  
95th percentile per-packet one-way delay: 54.366 ms  
Loss rate: 0.00%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-07-20 10:12:20

End at: 2018-07-20 10:12:50

Local clock offset: -0.243 ms

Remote clock offset: 0.023 ms

# Below is generated by plot.py at 2018-07-20 13:19:25

# Datalink statistics

-- Total of 3 flows:

Average throughput: 50.73 Mbit/s

95th percentile per-packet one-way delay: 54.293 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 32.41 Mbit/s

95th percentile per-packet one-way delay: 54.367 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 22.30 Mbit/s

95th percentile per-packet one-way delay: 54.121 ms

Loss rate: 0.00%

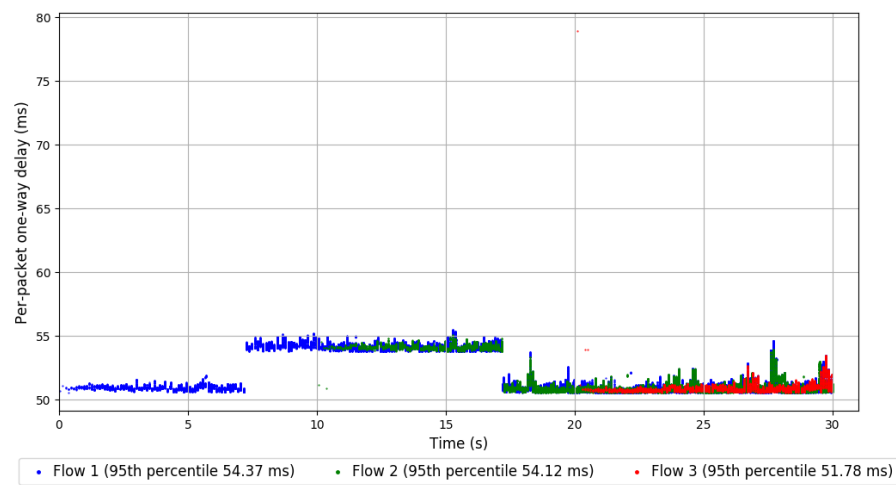
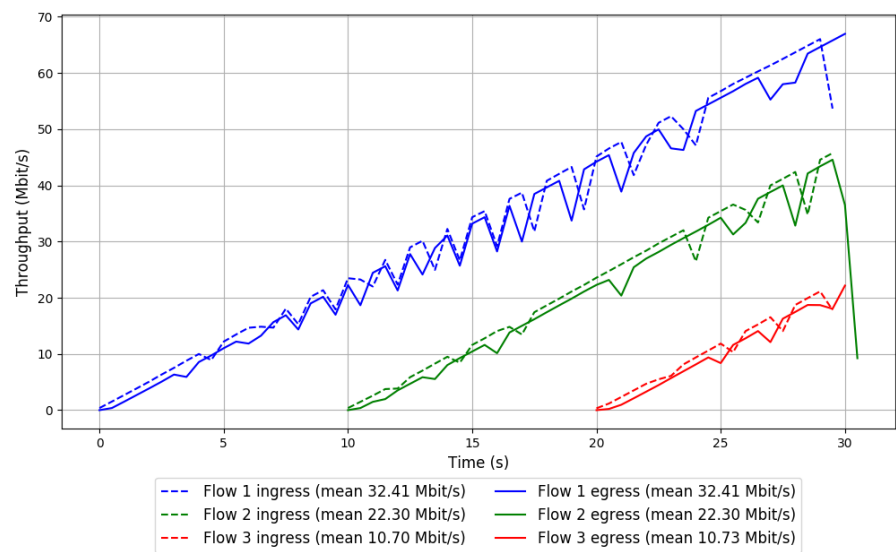
-- Flow 3:

Average throughput: 10.73 Mbit/s

95th percentile per-packet one-way delay: 51.783 ms

Loss rate: 0.00%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-07-20 10:37:13

End at: 2018-07-20 10:37:43

Local clock offset: 0.119 ms

Remote clock offset: -1.39 ms

# Below is generated by plot.py at 2018-07-20 13:19:25

# Datalink statistics

-- Total of 3 flows:

Average throughput: 39.03 Mbit/s

95th percentile per-packet one-way delay: 52.603 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 32.10 Mbit/s

95th percentile per-packet one-way delay: 52.662 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 6.82 Mbit/s

95th percentile per-packet one-way delay: 52.200 ms

Loss rate: 0.00%

-- Flow 3:

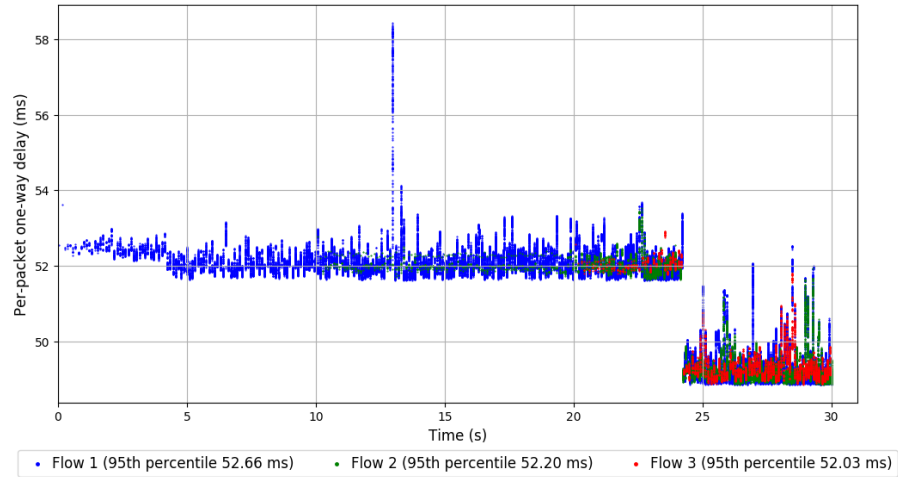
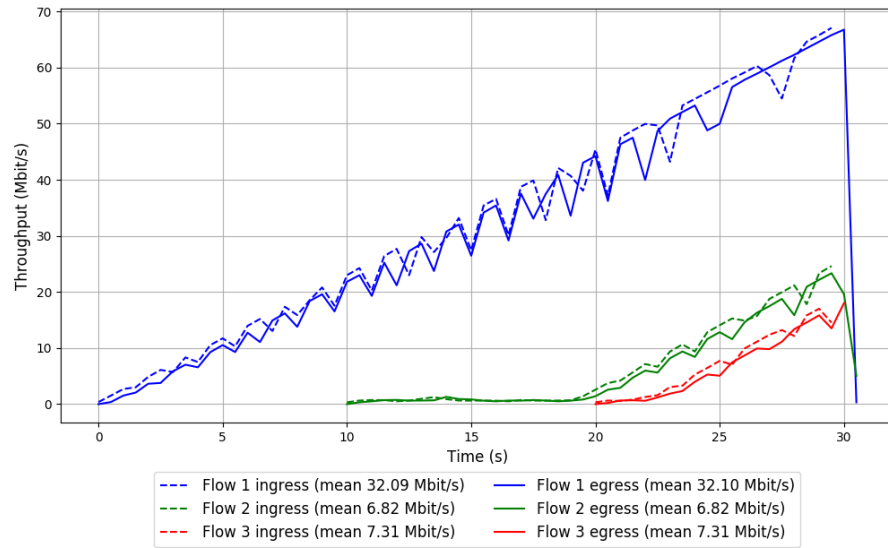
Average throughput: 7.31 Mbit/s

95th percentile per-packet one-way delay: 52.032 ms

Loss rate: 0.00%



## Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-07-20 11:01:57

End at: 2018-07-20 11:02:27

Local clock offset: 0.026 ms

Remote clock offset: -0.17 ms

# Below is generated by plot.py at 2018-07-20 13:19:25

# Datalink statistics

-- Total of 3 flows:

Average throughput: 42.99 Mbit/s

95th percentile per-packet one-way delay: 53.481 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 24.90 Mbit/s

95th percentile per-packet one-way delay: 53.606 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 21.61 Mbit/s

95th percentile per-packet one-way delay: 53.235 ms

Loss rate: 0.00%

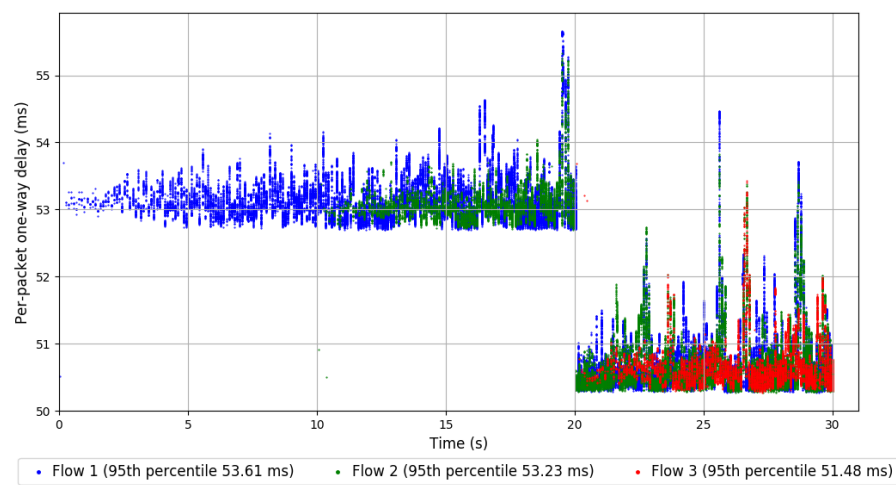
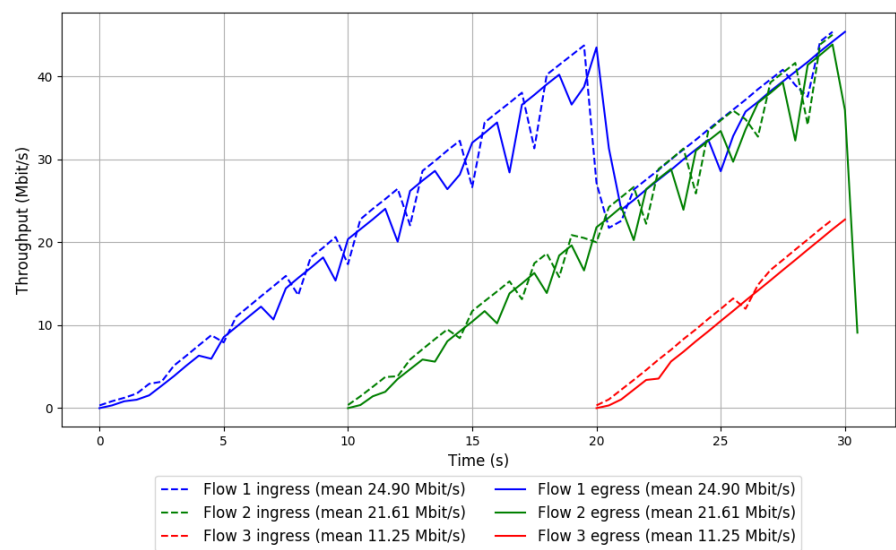
-- Flow 3:

Average throughput: 11.25 Mbit/s

95th percentile per-packet one-way delay: 51.479 ms

Loss rate: 0.00%

Run 10: Report of LEDBAT — Data Link

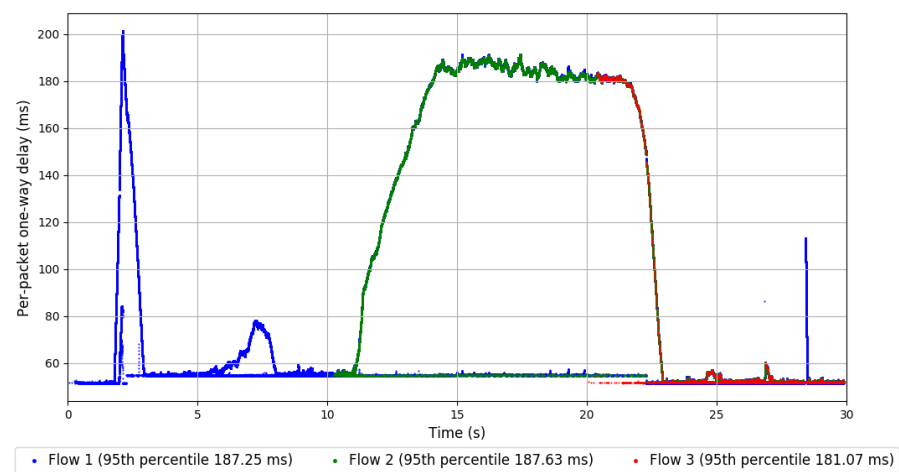
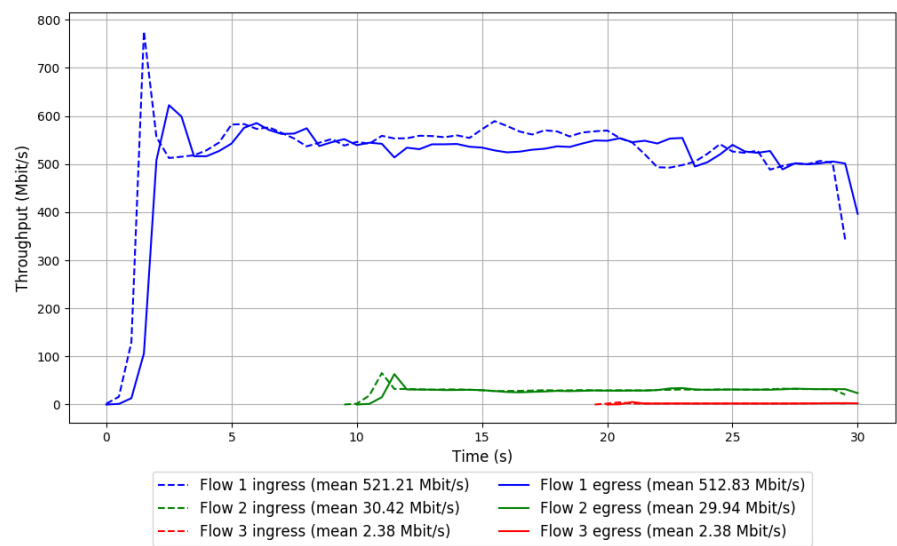


```
Run 1: Statistics of PCC-Allegro

Start at: 2018-07-20 07:20:44
End at: 2018-07-20 07:21:14
Local clock offset: 0.055 ms
Remote clock offset: 1.282 ms

# Below is generated by plot.py at 2018-07-20 13:21:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 533.54 Mbit/s
95th percentile per-packet one-way delay: 187.263 ms
Loss rate: 1.61%
-- Flow 1:
Average throughput: 512.83 Mbit/s
95th percentile per-packet one-way delay: 187.251 ms
Loss rate: 1.61%
-- Flow 2:
Average throughput: 29.94 Mbit/s
95th percentile per-packet one-way delay: 187.628 ms
Loss rate: 1.59%
-- Flow 3:
Average throughput: 2.38 Mbit/s
95th percentile per-packet one-way delay: 181.068 ms
Loss rate: 0.26%
```

Run 1: Report of PCC-Allegro — Data Link

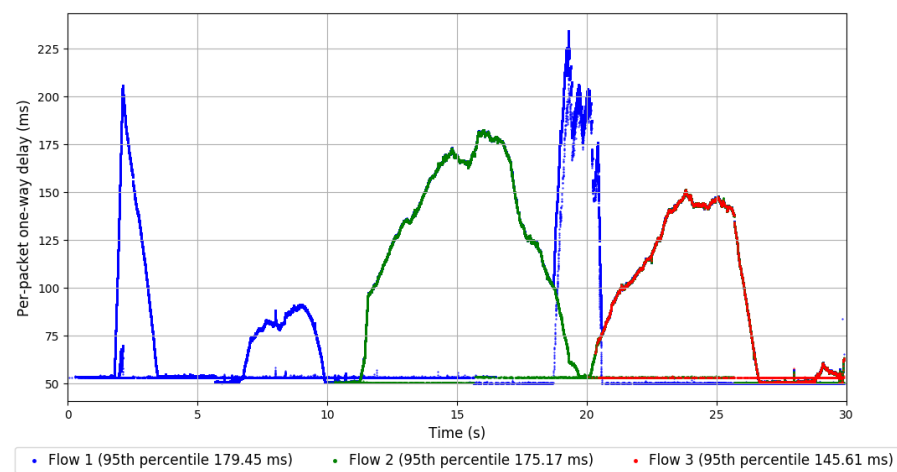
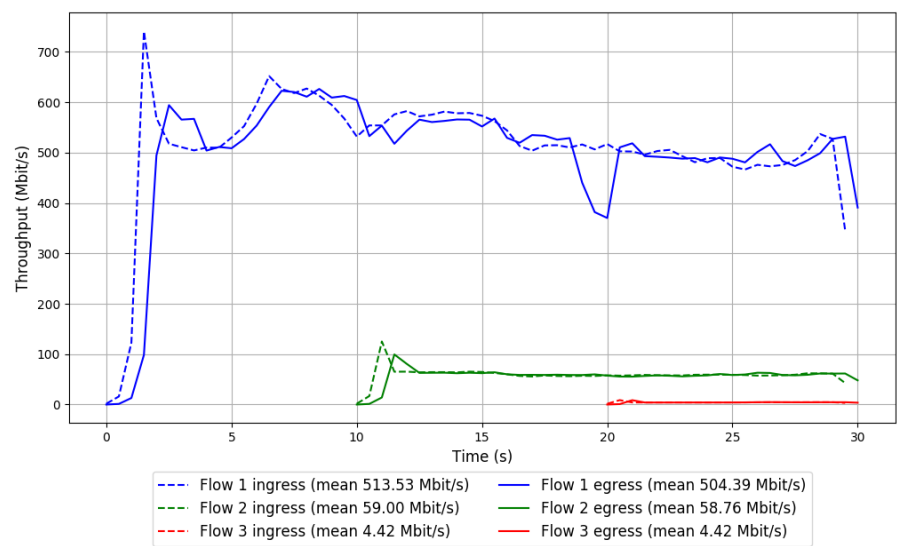


Run 2: Statistics of PCC-Allegro

Start at: 2018-07-20 07:45:51  
End at: 2018-07-20 07:46:21  
Local clock offset: -0.056 ms  
Remote clock offset: -0.002 ms

# Below is generated by plot.py at 2018-07-20 13:21:14  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 544.91 Mbit/s  
95th percentile per-packet one-way delay: 178.871 ms  
Loss rate: 1.68%  
-- Flow 1:  
Average throughput: 504.39 Mbit/s  
95th percentile per-packet one-way delay: 179.454 ms  
Loss rate: 1.78%  
-- Flow 2:  
Average throughput: 58.76 Mbit/s  
95th percentile per-packet one-way delay: 175.166 ms  
Loss rate: 0.40%  
-- Flow 3:  
Average throughput: 4.42 Mbit/s  
95th percentile per-packet one-way delay: 145.614 ms  
Loss rate: 0.14%

Run 2: Report of PCC-Allegro — Data Link



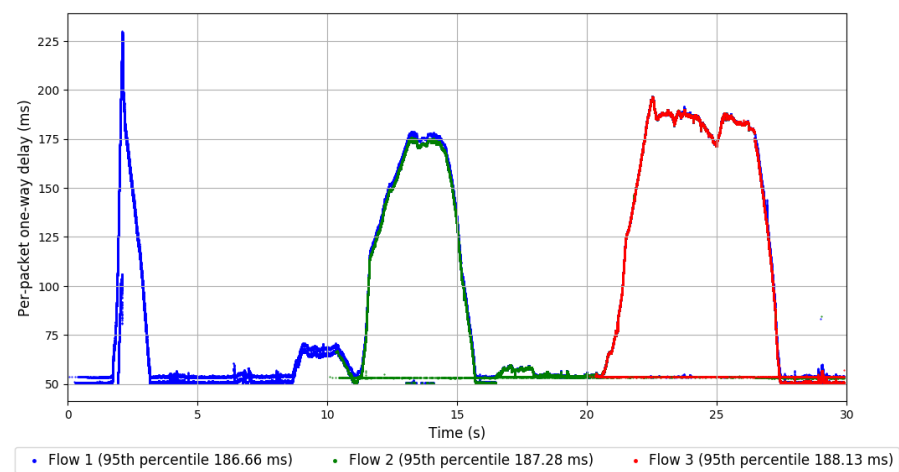
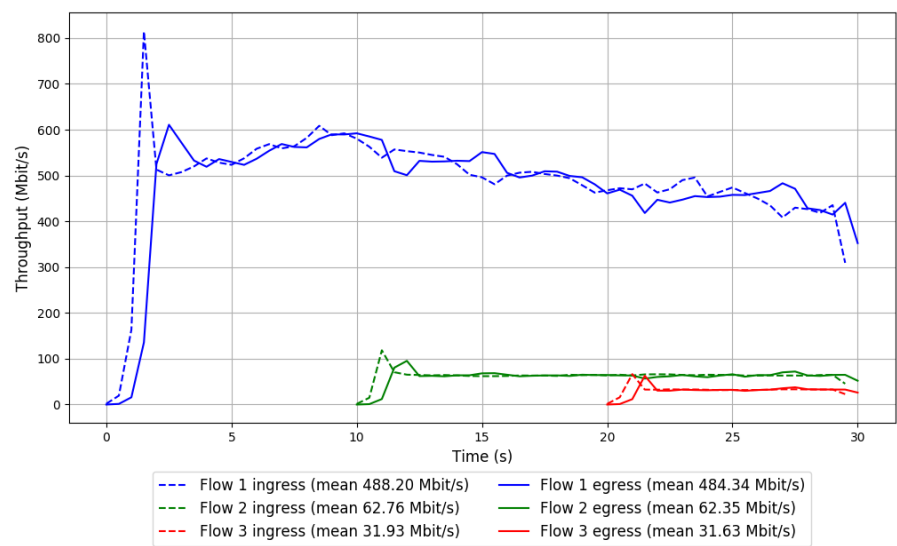
Run 3: Statistics of PCC-Allegro

Start at: 2018-07-20 08:10:40  
End at: 2018-07-20 08:11:10  
Local clock offset: -0.006 ms  
Remote clock offset: -0.085 ms

# Below is generated by plot.py at 2018-07-20 13:21:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 536.08 Mbit/s  
95th percentile per-packet one-way delay: 186.866 ms  
Loss rate: 0.79%  
-- Flow 1:  
Average throughput: 484.34 Mbit/s  
95th percentile per-packet one-way delay: 186.664 ms  
Loss rate: 0.79%  
-- Flow 2:  
Average throughput: 62.35 Mbit/s  
95th percentile per-packet one-way delay: 187.283 ms  
Loss rate: 0.67%  
-- Flow 3:  
Average throughput: 31.63 Mbit/s  
95th percentile per-packet one-way delay: 188.131 ms  
Loss rate: 0.92%



Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-07-20 08:35:50

End at: 2018-07-20 08:36:20

Local clock offset: 0.068 ms

Remote clock offset: -0.11 ms

# Below is generated by plot.py at 2018-07-20 13:21:39

# Datalink statistics

-- Total of 3 flows:

Average throughput: 533.47 Mbit/s

95th percentile per-packet one-way delay: 182.771 ms

Loss rate: 1.35%

-- Flow 1:

Average throughput: 466.58 Mbit/s

95th percentile per-packet one-way delay: 182.795 ms

Loss rate: 1.38%

-- Flow 2:

Average throughput: 68.36 Mbit/s

95th percentile per-packet one-way delay: 183.245 ms

Loss rate: 1.68%

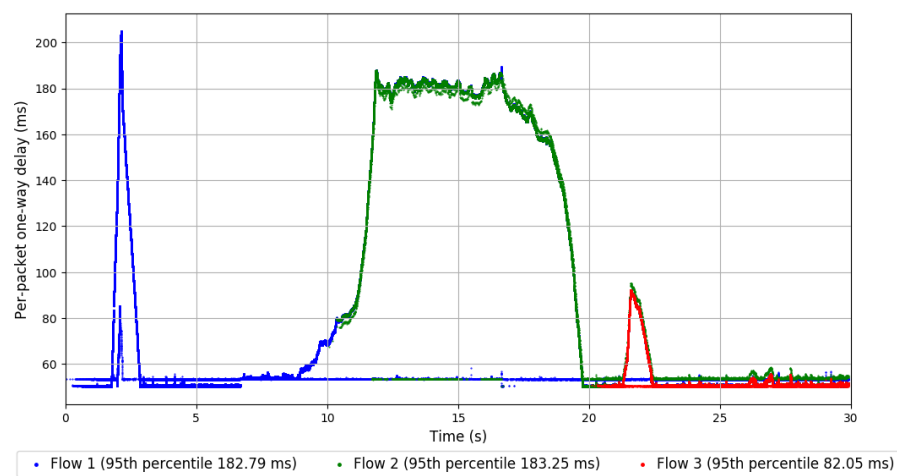
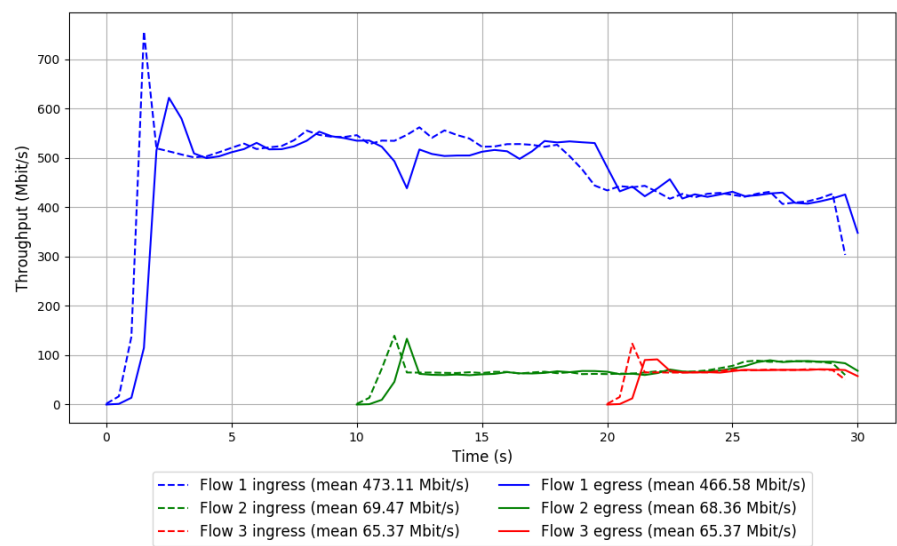
-- Flow 3:

Average throughput: 65.37 Mbit/s

95th percentile per-packet one-way delay: 82.053 ms

Loss rate: 0.00%

Run 4: Report of PCC-Allegro — Data Link

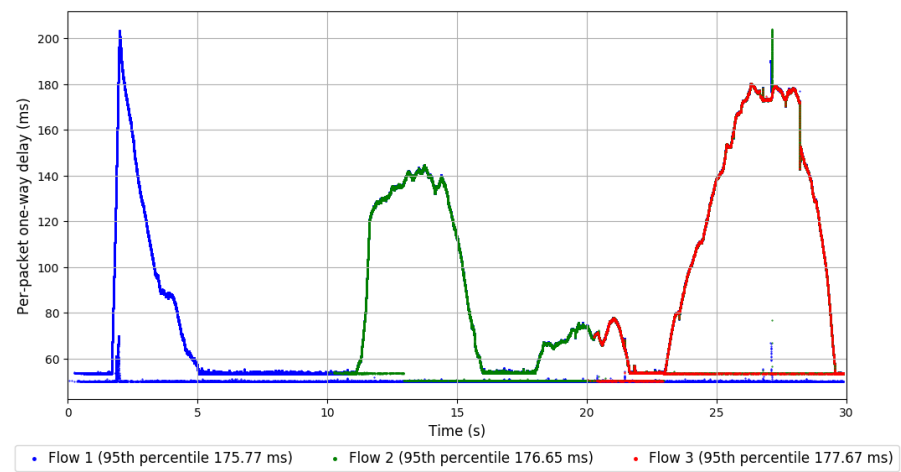
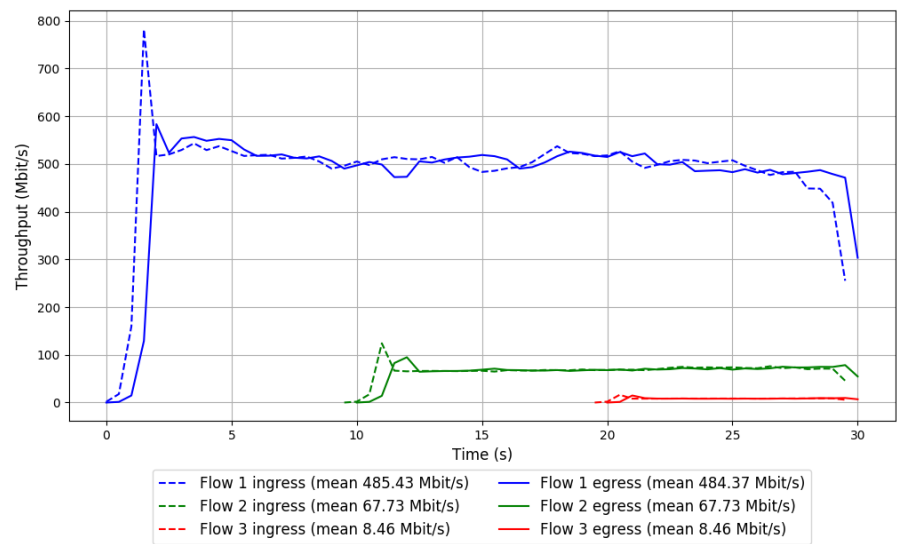


Run 5: Statistics of PCC-Allegro

Start at: 2018-07-20 09:00:34  
End at: 2018-07-20 09:01:04  
Local clock offset: -0.137 ms  
Remote clock offset: -0.135 ms

# Below is generated by plot.py at 2018-07-20 13:22:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 532.23 Mbit/s  
95th percentile per-packet one-way delay: 176.077 ms  
Loss rate: 0.20%  
-- Flow 1:  
Average throughput: 484.37 Mbit/s  
95th percentile per-packet one-way delay: 175.773 ms  
Loss rate: 0.22%  
-- Flow 2:  
Average throughput: 67.73 Mbit/s  
95th percentile per-packet one-way delay: 176.652 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 8.46 Mbit/s  
95th percentile per-packet one-way delay: 177.672 ms  
Loss rate: 0.00%

Run 5: Report of PCC-Allegro — Data Link



Run 6: Statistics of PCC-Allegro

Start at: 2018-07-20 09:25:49

End at: 2018-07-20 09:26:19

Local clock offset: 0.052 ms

Remote clock offset: 0.005 ms

# Below is generated by plot.py at 2018-07-20 13:26:09

# Datalink statistics

-- Total of 3 flows:

Average throughput: 541.96 Mbit/s

95th percentile per-packet one-way delay: 174.777 ms

Loss rate: 0.88%

-- Flow 1:

Average throughput: 504.45 Mbit/s

95th percentile per-packet one-way delay: 174.688 ms

Loss rate: 0.89%

-- Flow 2:

Average throughput: 41.57 Mbit/s

95th percentile per-packet one-way delay: 175.251 ms

Loss rate: 0.63%

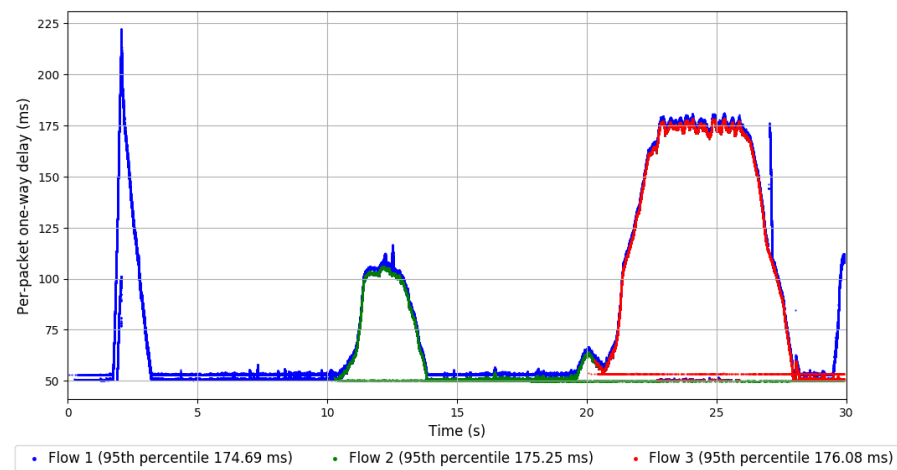
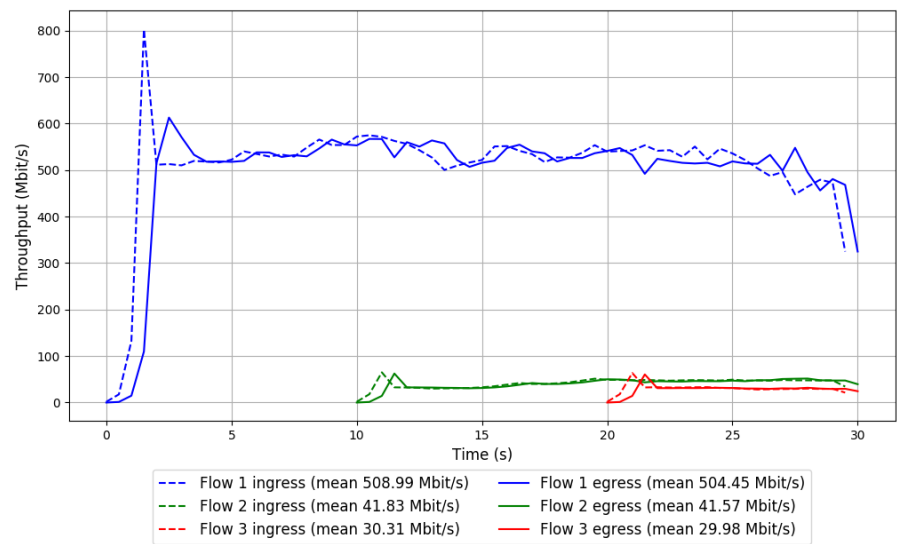
-- Flow 3:

Average throughput: 29.98 Mbit/s

95th percentile per-packet one-way delay: 176.078 ms

Loss rate: 1.07%

Run 6: Report of PCC-Allegro — Data Link



Run 7: Statistics of PCC-Allegro

Start at: 2018-07-20 09:50:57

End at: 2018-07-20 09:51:27

Local clock offset: 0.179 ms

Remote clock offset: 0.141 ms

# Below is generated by plot.py at 2018-07-20 13:28:16

# Datalink statistics

-- Total of 3 flows:

Average throughput: 541.81 Mbit/s

95th percentile per-packet one-way delay: 182.204 ms

Loss rate: 0.79%

-- Flow 1:

Average throughput: 528.15 Mbit/s

95th percentile per-packet one-way delay: 182.204 ms

Loss rate: 0.79%

-- Flow 2:

Average throughput: 18.97 Mbit/s

95th percentile per-packet one-way delay: 182.398 ms

Loss rate: 0.76%

-- Flow 3:

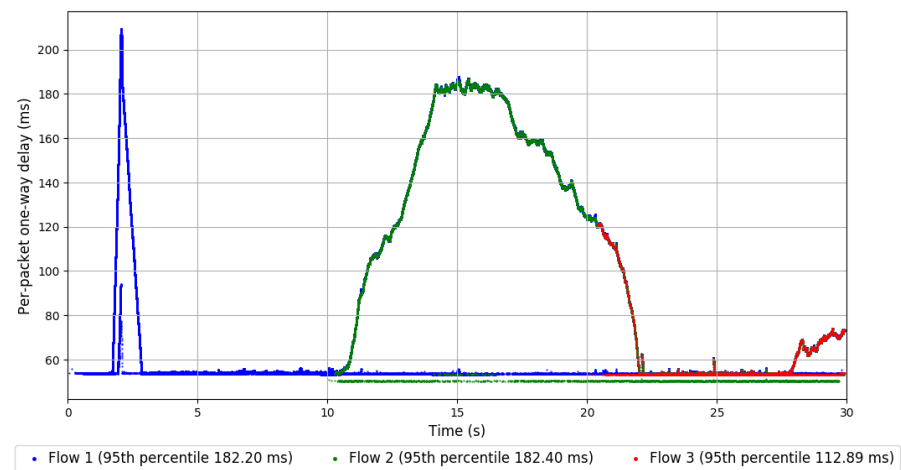
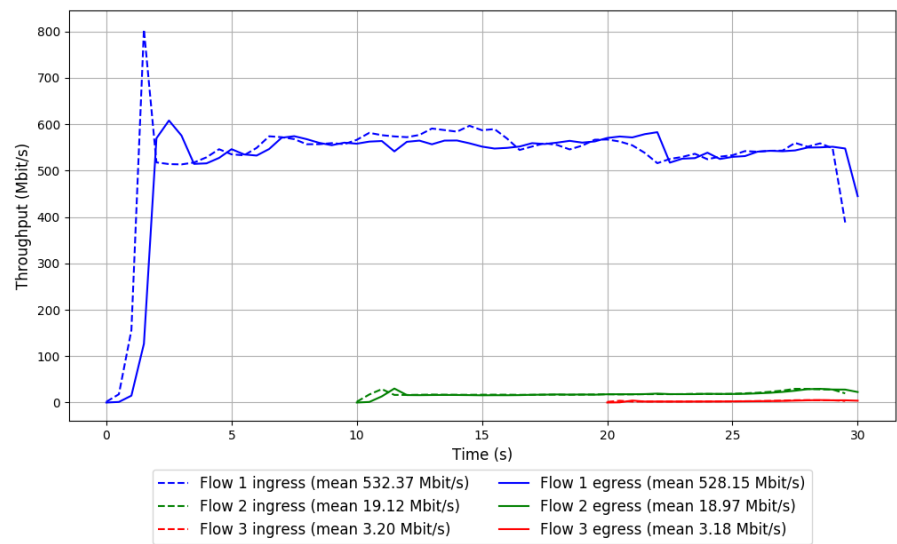
Average throughput: 3.18 Mbit/s

95th percentile per-packet one-way delay: 112.889 ms

Loss rate: 0.53%



Run 7: Report of PCC-Allegro — Data Link

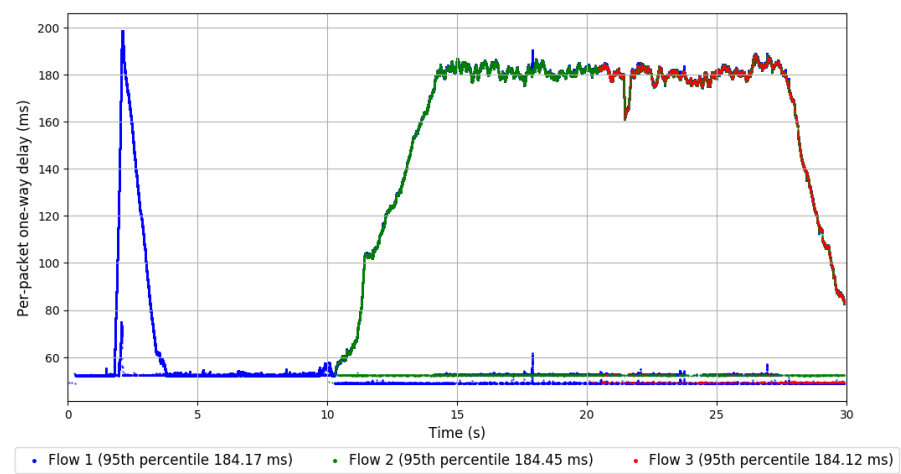
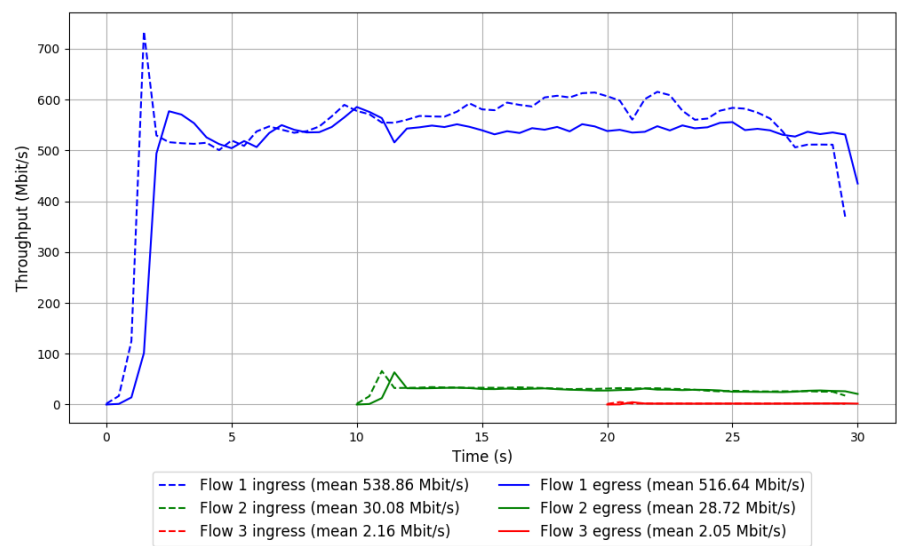


Run 8: Statistics of PCC-Allegro

Start at: 2018-07-20 10:15:56  
End at: 2018-07-20 10:16:26  
Local clock offset: -0.187 ms  
Remote clock offset: -1.332 ms

# Below is generated by plot.py at 2018-07-20 13:29:35  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 536.36 Mbit/s  
95th percentile per-packet one-way delay: 184.178 ms  
Loss rate: 4.13%  
-- Flow 1:  
Average throughput: 516.64 Mbit/s  
95th percentile per-packet one-way delay: 184.167 ms  
Loss rate: 4.11%  
-- Flow 2:  
Average throughput: 28.72 Mbit/s  
95th percentile per-packet one-way delay: 184.446 ms  
Loss rate: 4.52%  
-- Flow 3:  
Average throughput: 2.05 Mbit/s  
95th percentile per-packet one-way delay: 184.124 ms  
Loss rate: 4.76%

Run 8: Report of PCC-Allegro — Data Link

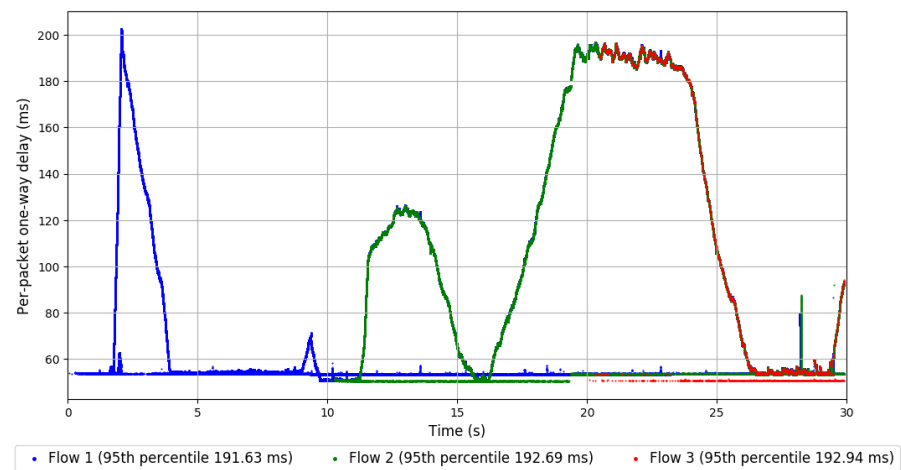
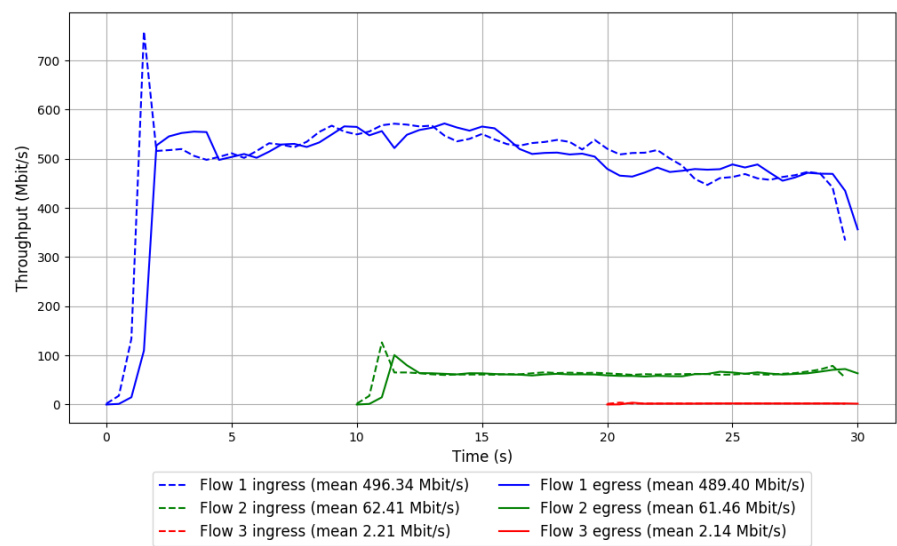


Run 9: Statistics of PCC-Allegro

Start at: 2018-07-20 10:40:47  
End at: 2018-07-20 10:41:17  
Local clock offset: -0.151 ms  
Remote clock offset: -0.029 ms

# Below is generated by plot.py at 2018-07-20 13:30:45  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 530.94 Mbit/s  
95th percentile per-packet one-way delay: 191.711 ms  
Loss rate: 1.41%  
-- Flow 1:  
Average throughput: 489.40 Mbit/s  
95th percentile per-packet one-way delay: 191.635 ms  
Loss rate: 1.40%  
-- Flow 2:  
Average throughput: 61.46 Mbit/s  
95th percentile per-packet one-way delay: 192.687 ms  
Loss rate: 1.50%  
-- Flow 3:  
Average throughput: 2.14 Mbit/s  
95th percentile per-packet one-way delay: 192.935 ms  
Loss rate: 3.21%

Run 9: Report of PCC-Allegro — Data Link



Run 10: Statistics of PCC-Allegro

Start at: 2018-07-20 11:05:33

End at: 2018-07-20 11:06:03

Local clock offset: 0.067 ms

Remote clock offset: 0.117 ms

# Below is generated by plot.py at 2018-07-20 13:30:54

# Datalink statistics

-- Total of 3 flows:

Average throughput: 529.87 Mbit/s

95th percentile per-packet one-way delay: 184.259 ms

Loss rate: 1.38%

-- Flow 1:

Average throughput: 462.83 Mbit/s

95th percentile per-packet one-way delay: 184.448 ms

Loss rate: 1.46%

-- Flow 2:

Average throughput: 69.71 Mbit/s

95th percentile per-packet one-way delay: 185.044 ms

Loss rate: 1.17%

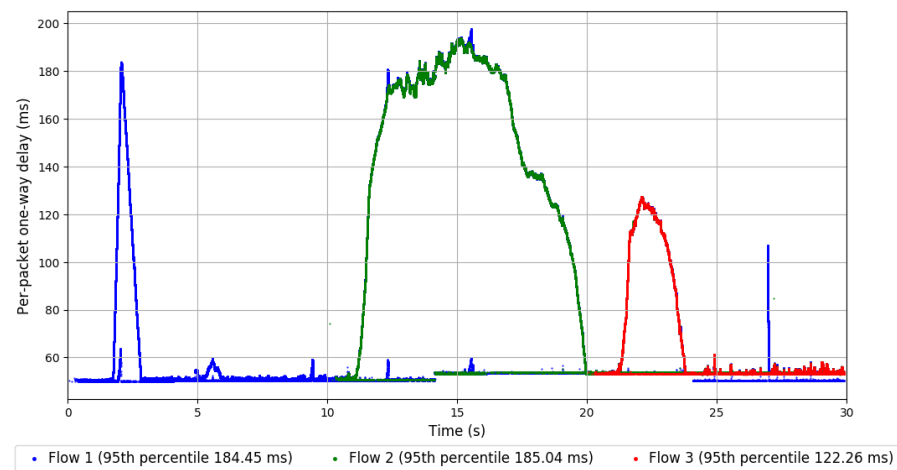
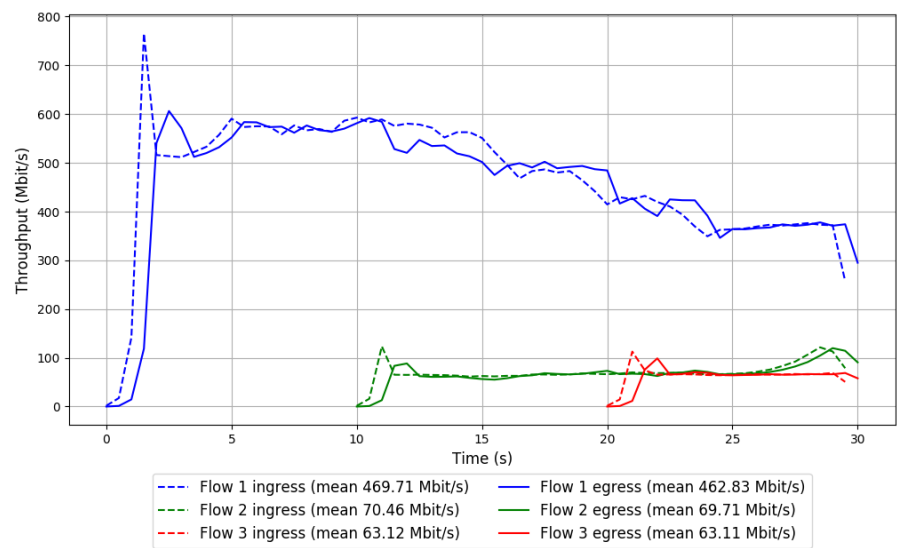
-- Flow 3:

Average throughput: 63.11 Mbit/s

95th percentile per-packet one-way delay: 122.264 ms

Loss rate: 0.02%

Run 10: Report of PCC-Allegro — Data Link



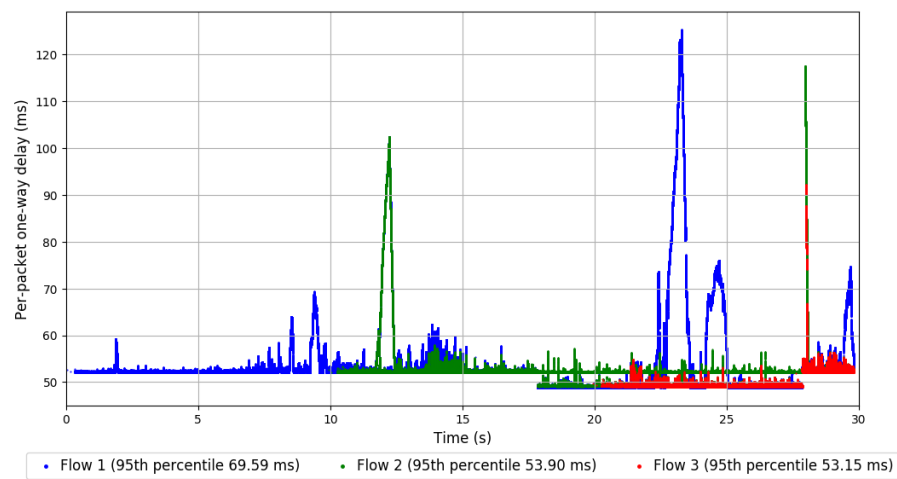
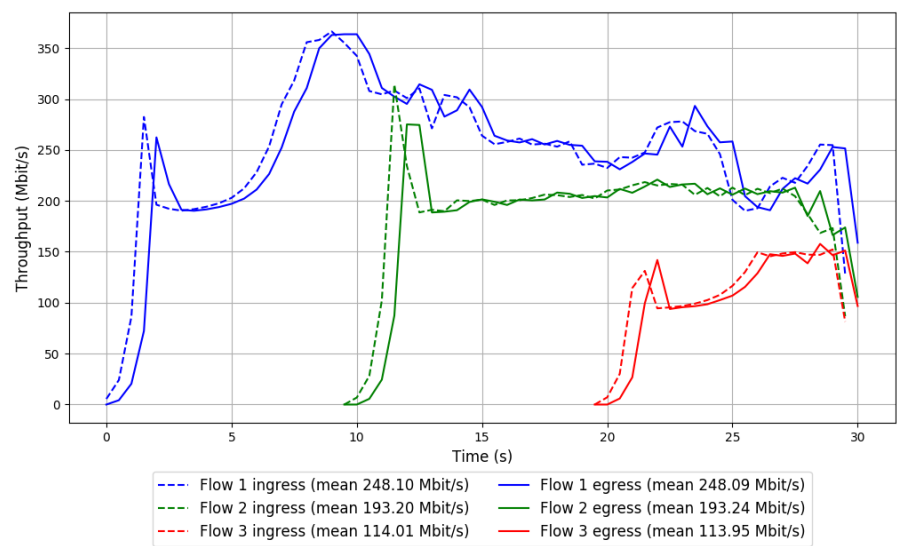
```
Run 1: Statistics of PCC-Expr

Start at: 2018-07-20 07:10:09
End at: 2018-07-20 07:10:39
Local clock offset: -0.021 ms
Remote clock offset: -1.245 ms

# Below is generated by plot.py at 2018-07-20 13:35:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 414.81 Mbit/s
95th percentile per-packet one-way delay: 66.436 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 248.09 Mbit/s
95th percentile per-packet one-way delay: 69.586 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 193.24 Mbit/s
95th percentile per-packet one-way delay: 53.897 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 113.95 Mbit/s
95th percentile per-packet one-way delay: 53.148 ms
Loss rate: 0.05%
```



Run 1: Report of PCC-Expr — Data Link

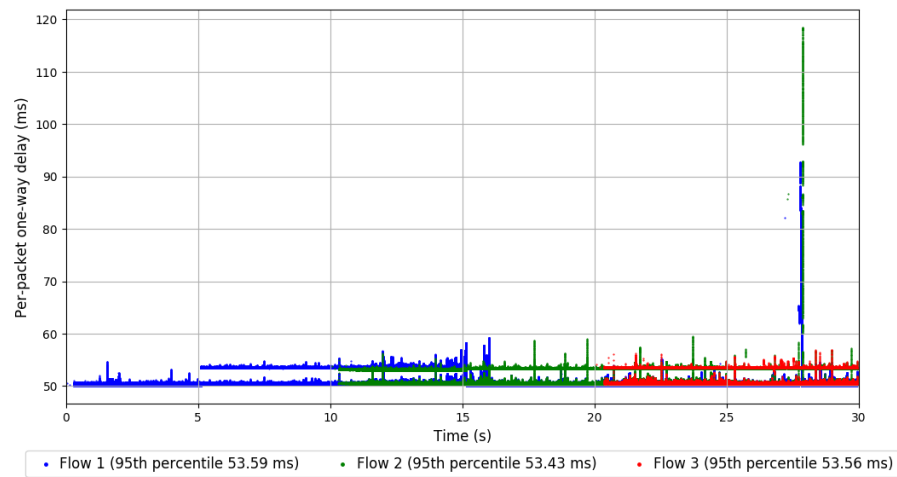
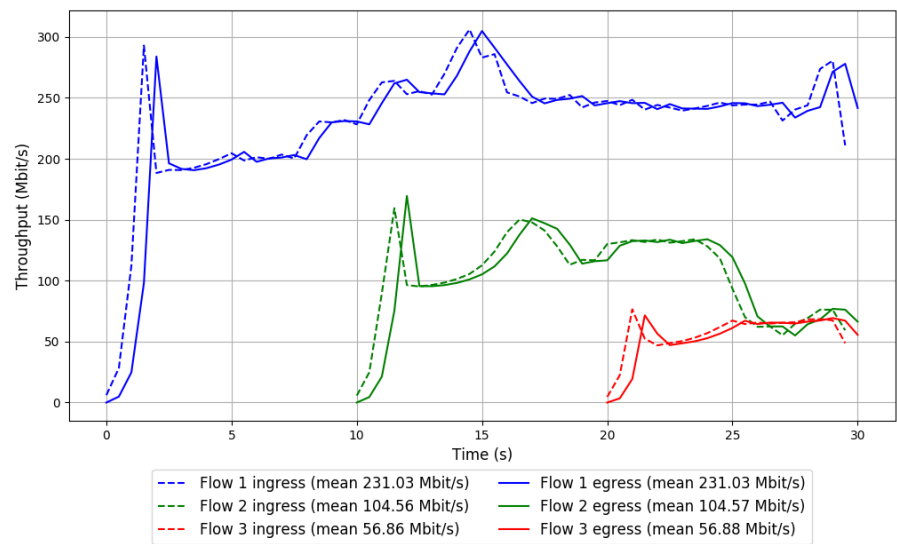


```
Run 2: Statistics of PCC-Expr

Start at: 2018-07-20 07:35:12
End at: 2018-07-20 07:35:42
Local clock offset: -0.132 ms
Remote clock offset: -0.02 ms

# Below is generated by plot.py at 2018-07-20 13:35:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 319.31 Mbit/s
95th percentile per-packet one-way delay: 53.570 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 231.03 Mbit/s
95th percentile per-packet one-way delay: 53.588 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 104.57 Mbit/s
95th percentile per-packet one-way delay: 53.427 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 56.88 Mbit/s
95th percentile per-packet one-way delay: 53.565 ms
Loss rate: 0.00%
```

Run 2: Report of PCC-Expr — Data Link

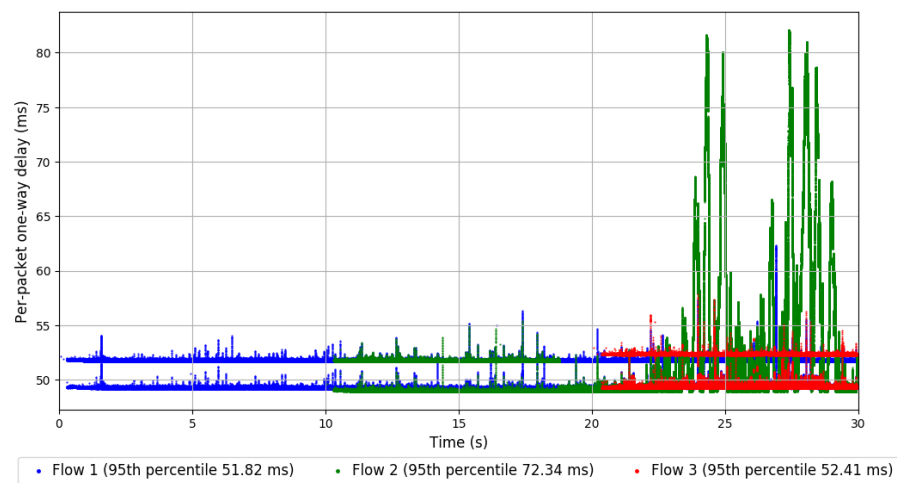
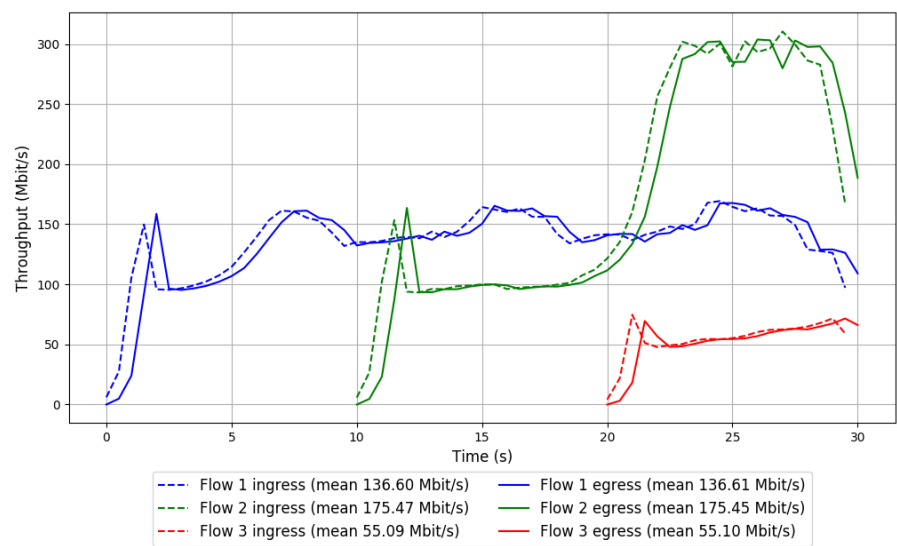


Run 3: Statistics of PCC-Expr

Start at: 2018-07-20 08:00:18  
End at: 2018-07-20 08:00:48  
Local clock offset: -0.206 ms  
Remote clock offset: -1.381 ms

# Below is generated by plot.py at 2018-07-20 13:35:38  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 271.47 Mbit/s  
95th percentile per-packet one-way delay: 62.496 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 136.61 Mbit/s  
95th percentile per-packet one-way delay: 51.819 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 175.45 Mbit/s  
95th percentile per-packet one-way delay: 72.342 ms  
Loss rate: 0.01%  
-- Flow 3:  
Average throughput: 55.10 Mbit/s  
95th percentile per-packet one-way delay: 52.408 ms  
Loss rate: 0.00%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2018-07-20 08:25:06

End at: 2018-07-20 08:25:36

Local clock offset: 0.09 ms

Remote clock offset: 0.136 ms

# Below is generated by plot.py at 2018-07-20 13:37:31

# Datalink statistics

-- Total of 3 flows:

Average throughput: 334.55 Mbit/s

95th percentile per-packet one-way delay: 53.529 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 186.67 Mbit/s

95th percentile per-packet one-way delay: 53.566 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 196.05 Mbit/s

95th percentile per-packet one-way delay: 51.564 ms

Loss rate: 0.00%

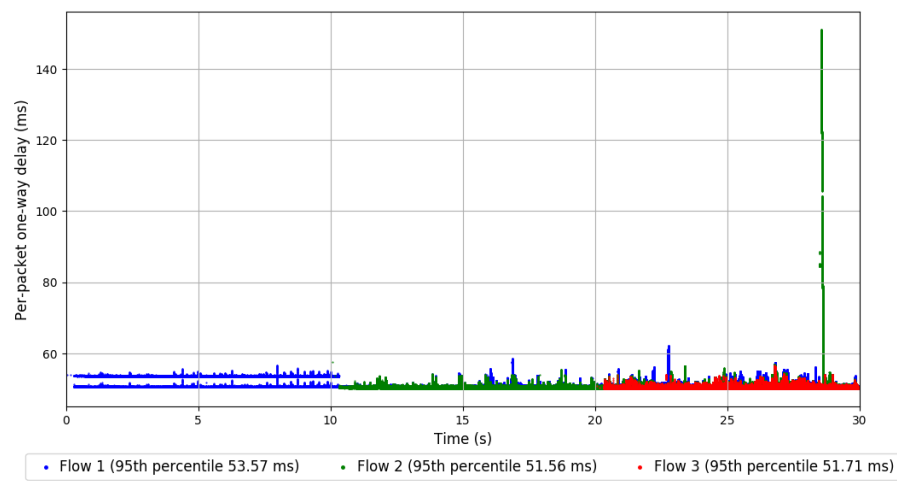
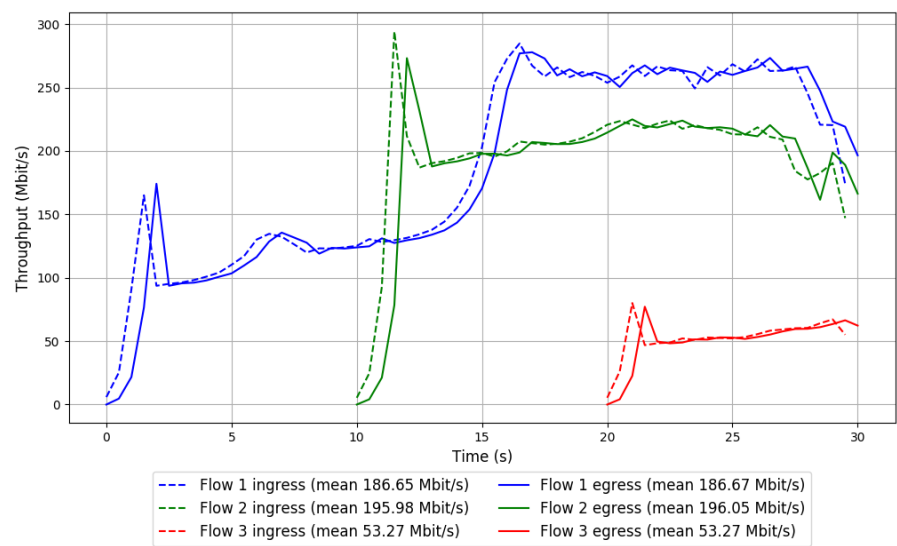
-- Flow 3:

Average throughput: 53.27 Mbit/s

95th percentile per-packet one-way delay: 51.713 ms

Loss rate: 0.00%

Run 4: Report of PCC-Expr — Data Link



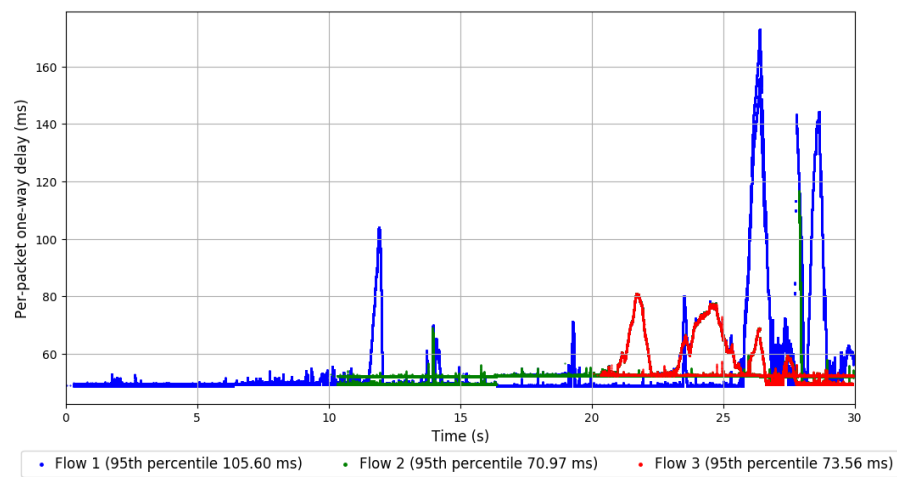
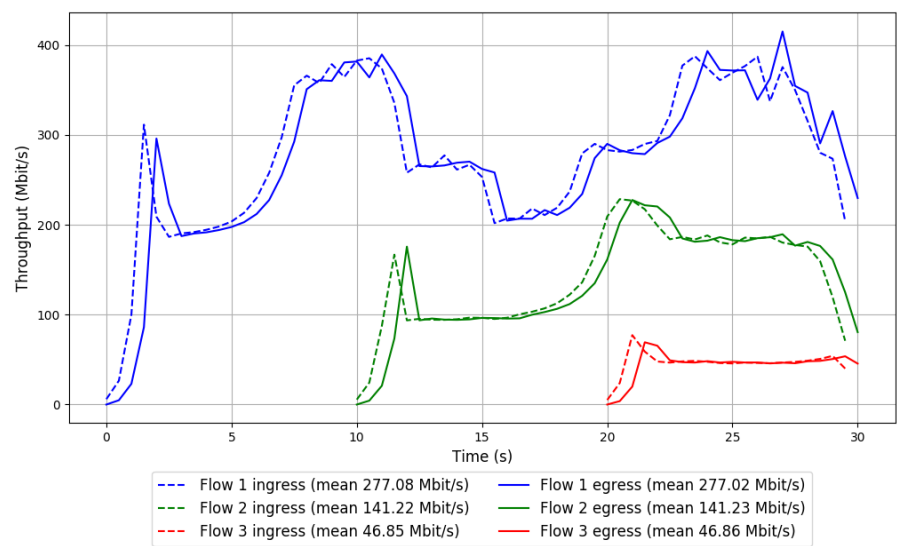
Run 5: Statistics of PCC-Expr

Start at: 2018-07-20 08:50:00  
End at: 2018-07-20 08:50:30  
Local clock offset: -0.173 ms  
Remote clock offset: -1.259 ms

# Below is generated by plot.py at 2018-07-20 13:41:14  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 386.35 Mbit/s  
95th percentile per-packet one-way delay: 90.505 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 277.02 Mbit/s  
95th percentile per-packet one-way delay: 105.600 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 141.23 Mbit/s  
95th percentile per-packet one-way delay: 70.975 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 46.86 Mbit/s  
95th percentile per-packet one-way delay: 73.559 ms  
Loss rate: 0.00%



Run 5: Report of PCC-Expr — Data Link

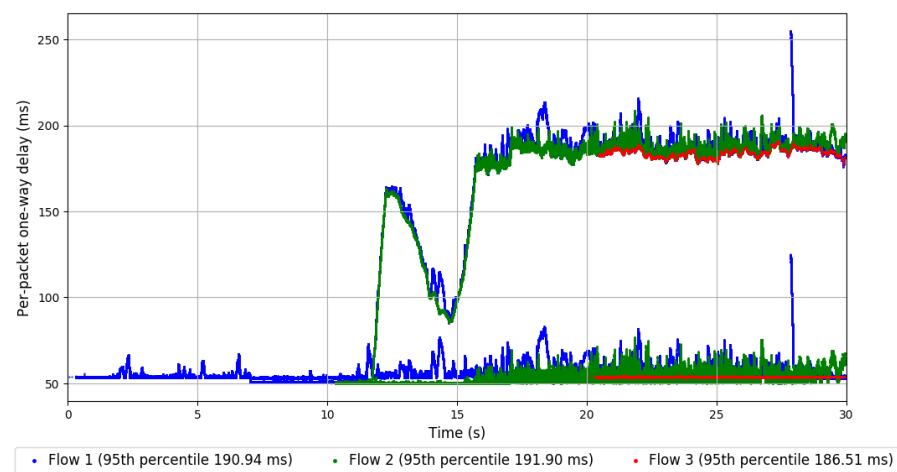
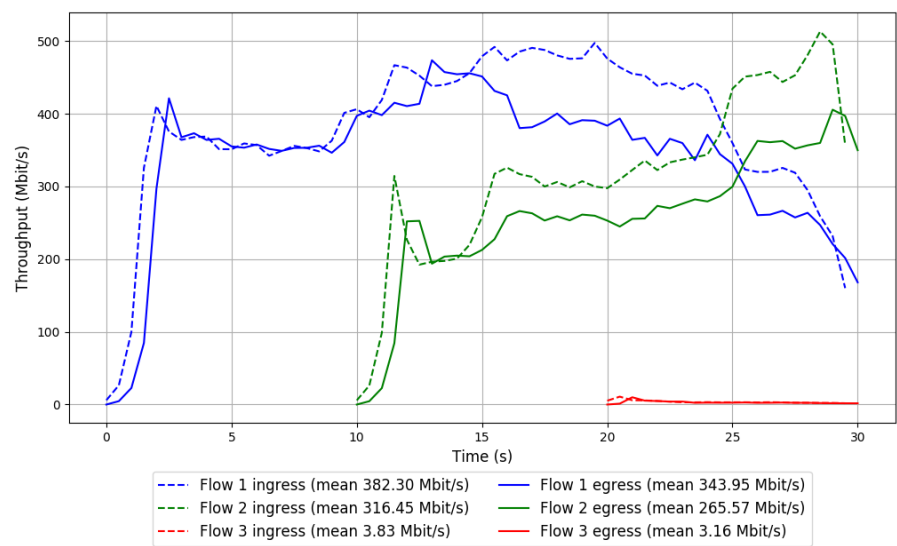


Run 6: Statistics of PCC-Expr

Start at: 2018-07-20 09:15:00  
End at: 2018-07-20 09:15:30  
Local clock offset: -0.031 ms  
Remote clock offset: -0.026 ms

# Below is generated by plot.py at 2018-07-20 13:49:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 521.67 Mbit/s  
95th percentile per-packet one-way delay: 191.402 ms  
Loss rate: 12.18%  
-- Flow 1:  
Average throughput: 343.95 Mbit/s  
95th percentile per-packet one-way delay: 190.939 ms  
Loss rate: 10.03%  
-- Flow 2:  
Average throughput: 265.57 Mbit/s  
95th percentile per-packet one-way delay: 191.895 ms  
Loss rate: 16.06%  
-- Flow 3:  
Average throughput: 3.16 Mbit/s  
95th percentile per-packet one-way delay: 186.506 ms  
Loss rate: 17.59%

Run 6: Report of PCC-Expr — Data Link



Run 7: Statistics of PCC-Expr

Start at: 2018-07-20 09:40:26

End at: 2018-07-20 09:40:56

Local clock offset: 0.032 ms

Remote clock offset: 0.081 ms

# Below is generated by plot.py at 2018-07-20 13:49:49

# Datalink statistics

-- Total of 3 flows:

Average throughput: 431.44 Mbit/s

95th percentile per-packet one-way delay: 289.446 ms

Loss rate: 14.80%

-- Flow 1:

Average throughput: 345.50 Mbit/s

95th percentile per-packet one-way delay: 292.624 ms

Loss rate: 17.37%

-- Flow 2:

Average throughput: 125.40 Mbit/s

95th percentile per-packet one-way delay: 177.773 ms

Loss rate: 2.60%

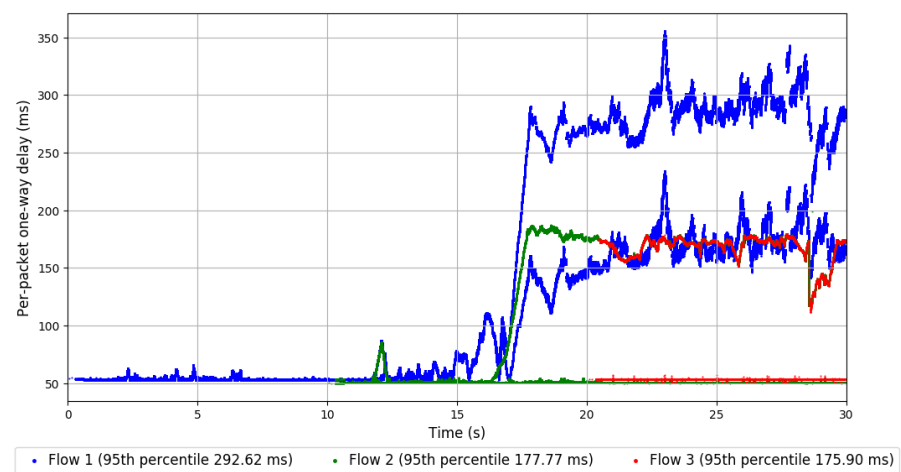
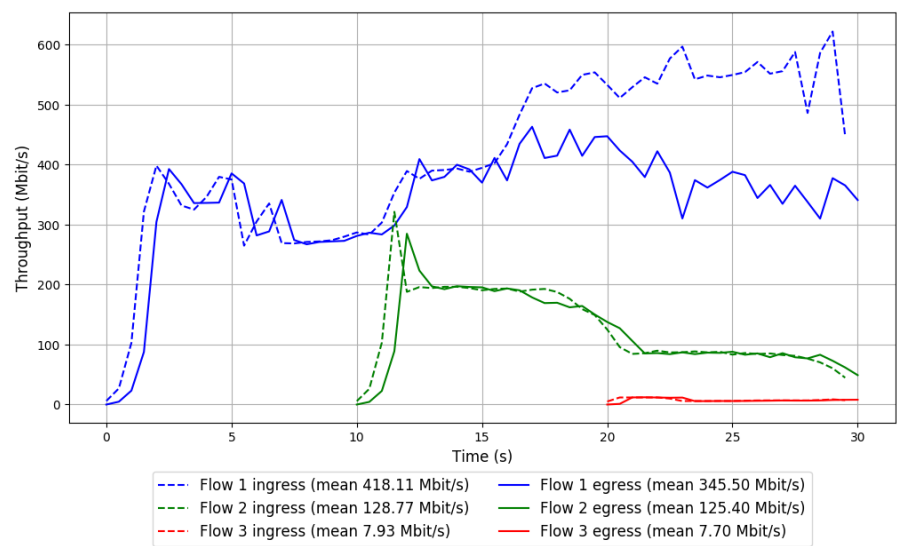
-- Flow 3:

Average throughput: 7.70 Mbit/s

95th percentile per-packet one-way delay: 175.901 ms

Loss rate: 2.88%

Run 7: Report of PCC-Expr — Data Link

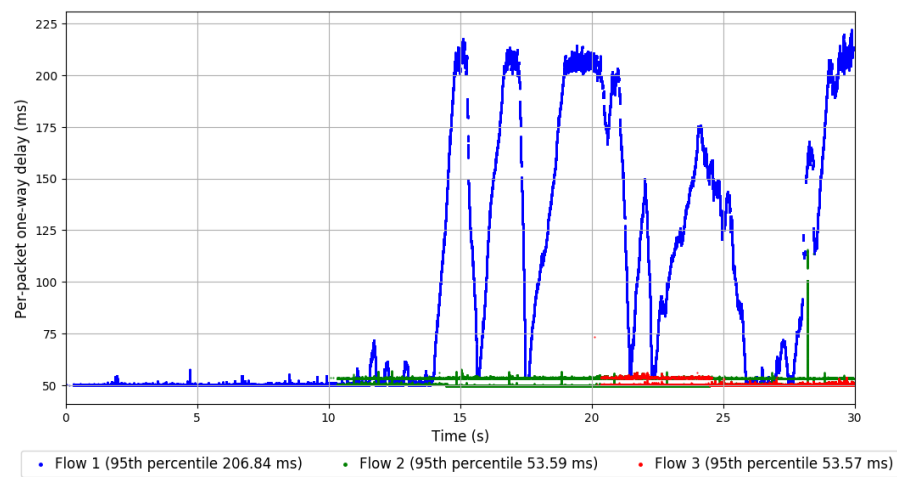
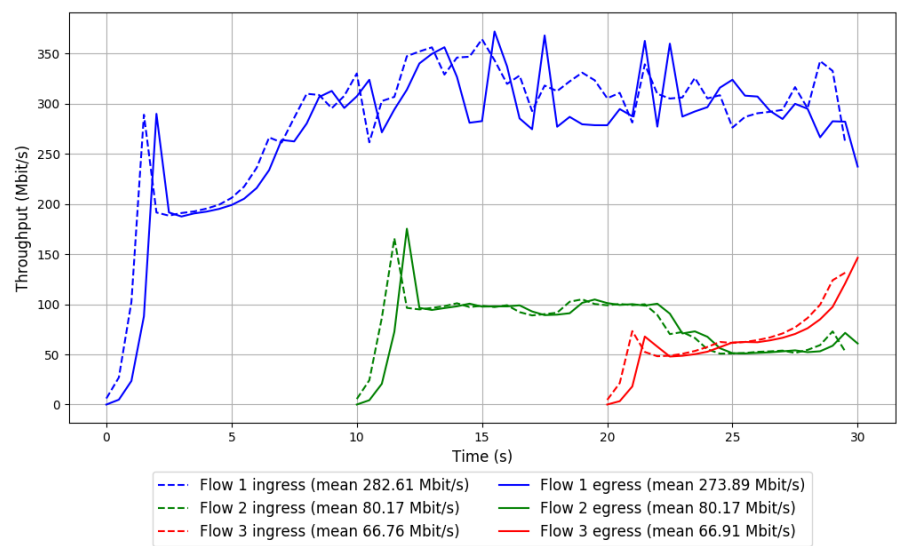


Run 8: Statistics of PCC-Expr

Start at: 2018-07-20 10:05:12  
End at: 2018-07-20 10:05:42  
Local clock offset: 0.057 ms  
Remote clock offset: -0.063 ms

# Below is generated by plot.py at 2018-07-20 13:49:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 349.20 Mbit/s  
95th percentile per-packet one-way delay: 205.648 ms  
Loss rate: 2.43%  
-- Flow 1:  
Average throughput: 273.89 Mbit/s  
95th percentile per-packet one-way delay: 206.845 ms  
Loss rate: 3.07%  
-- Flow 2:  
Average throughput: 80.17 Mbit/s  
95th percentile per-packet one-way delay: 53.595 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 66.91 Mbit/s  
95th percentile per-packet one-way delay: 53.568 ms  
Loss rate: 0.00%

Run 8: Report of PCC-Expr — Data Link



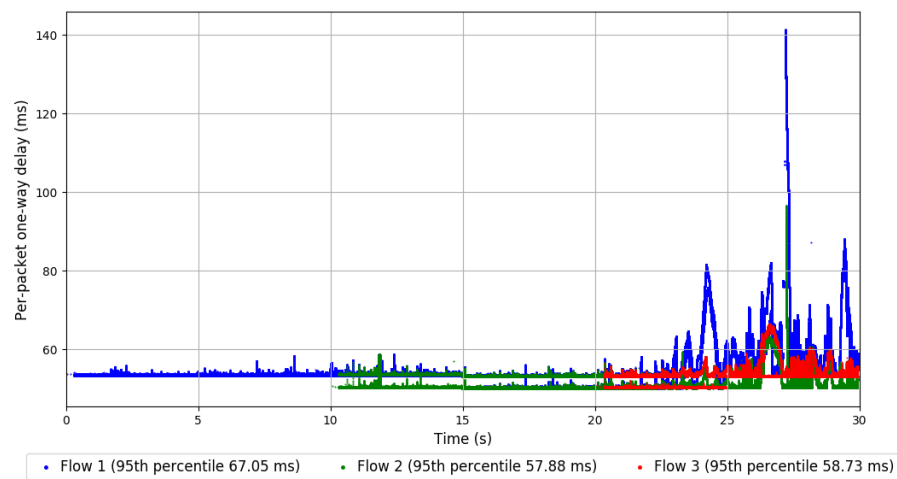
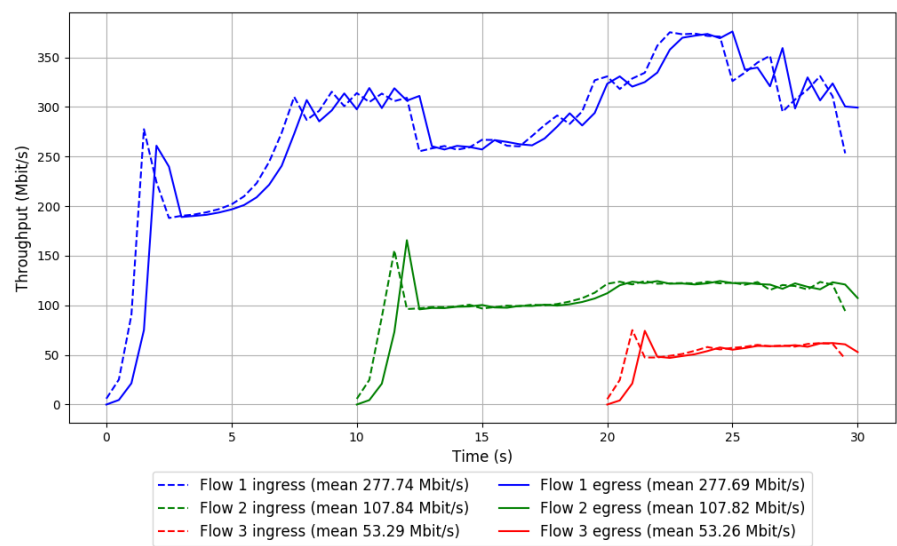
Run 9: Statistics of PCC-Expr

Start at: 2018-07-20 10:30:12  
End at: 2018-07-20 10:30:42  
Local clock offset: -0.088 ms  
Remote clock offset: -0.101 ms

# Below is generated by plot.py at 2018-07-20 13:49:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 366.97 Mbit/s  
95th percentile per-packet one-way delay: 64.869 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 277.69 Mbit/s  
95th percentile per-packet one-way delay: 67.050 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 107.82 Mbit/s  
95th percentile per-packet one-way delay: 57.883 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 53.26 Mbit/s  
95th percentile per-packet one-way delay: 58.727 ms  
Loss rate: 0.00%



Run 9: Report of PCC-Expr — Data Link



Run 10: Statistics of PCC-Expr

Start at: 2018-07-20 10:55:02

End at: 2018-07-20 10:55:32

Local clock offset: 0.111 ms

Remote clock offset: 0.081 ms

# Below is generated by plot.py at 2018-07-20 13:49:49

# Datalink statistics

-- Total of 3 flows:

Average throughput: 424.10 Mbit/s

95th percentile per-packet one-way delay: 210.860 ms

Loss rate: 5.94%

-- Flow 1:

Average throughput: 340.02 Mbit/s

95th percentile per-packet one-way delay: 249.158 ms

Loss rate: 7.04%

-- Flow 2:

Average throughput: 103.08 Mbit/s

95th percentile per-packet one-way delay: 179.791 ms

Loss rate: 1.07%

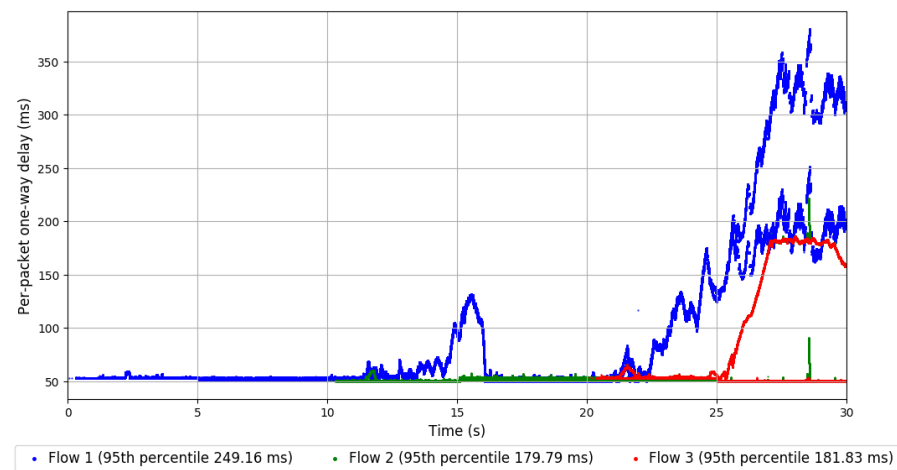
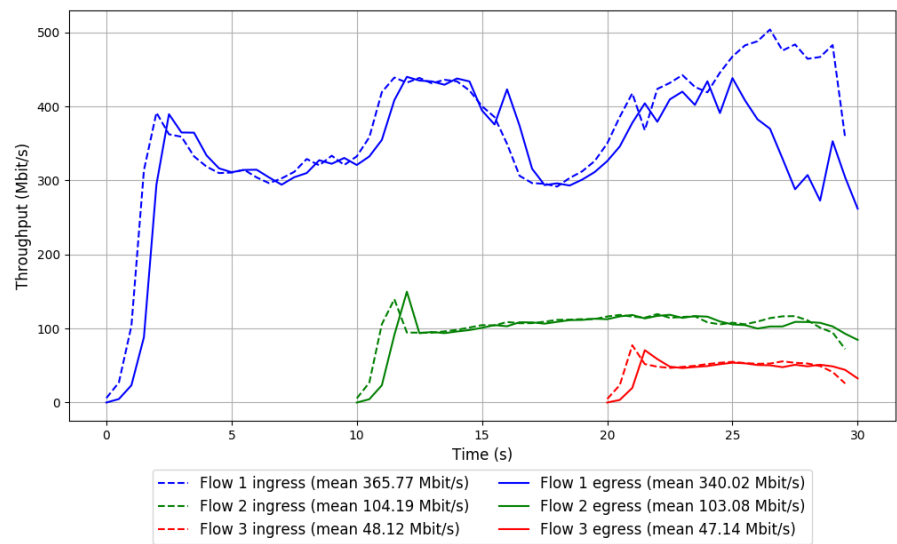
-- Flow 3:

Average throughput: 47.14 Mbit/s

95th percentile per-packet one-way delay: 181.832 ms

Loss rate: 2.01%

Run 10: Report of PCC-Expr — Data Link

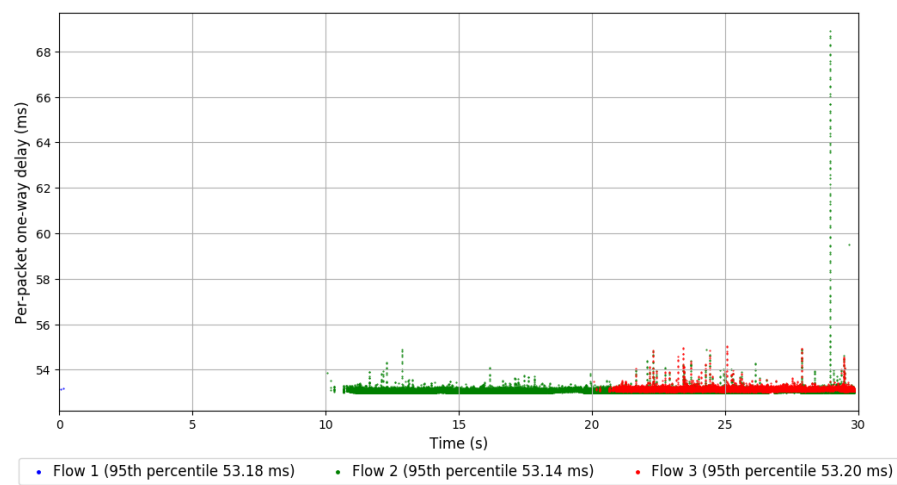
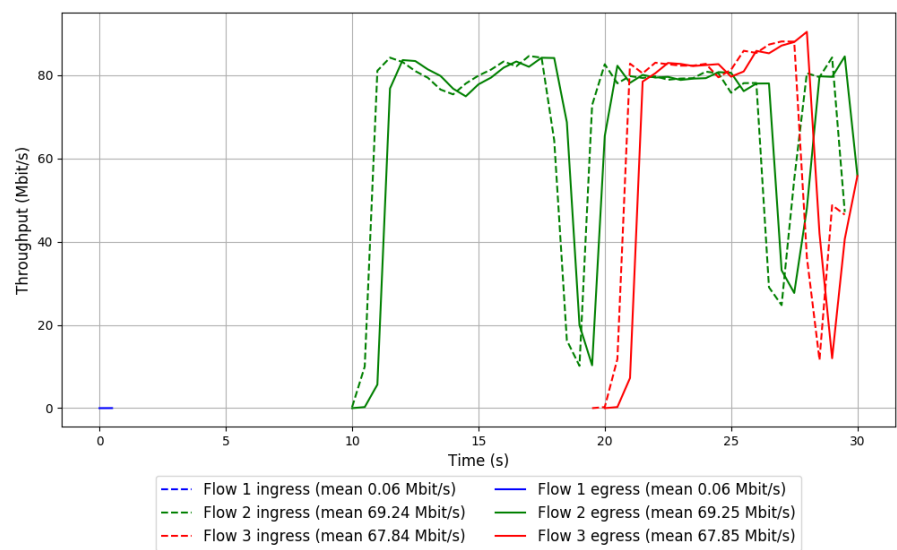


Run 1: Statistics of QUIC Cubic

Start at: 2018-07-20 07:19:32  
End at: 2018-07-20 07:20:02  
Local clock offset: -0.004 ms  
Remote clock offset: -0.357 ms

# Below is generated by plot.py at 2018-07-20 13:49:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 68.27 Mbit/s  
95th percentile per-packet one-way delay: 53.171 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.06 Mbit/s  
95th percentile per-packet one-way delay: 53.176 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 69.25 Mbit/s  
95th percentile per-packet one-way delay: 53.144 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 67.85 Mbit/s  
95th percentile per-packet one-way delay: 53.199 ms  
Loss rate: 0.00%

Run 1: Report of QUIC Cubic — Data Link

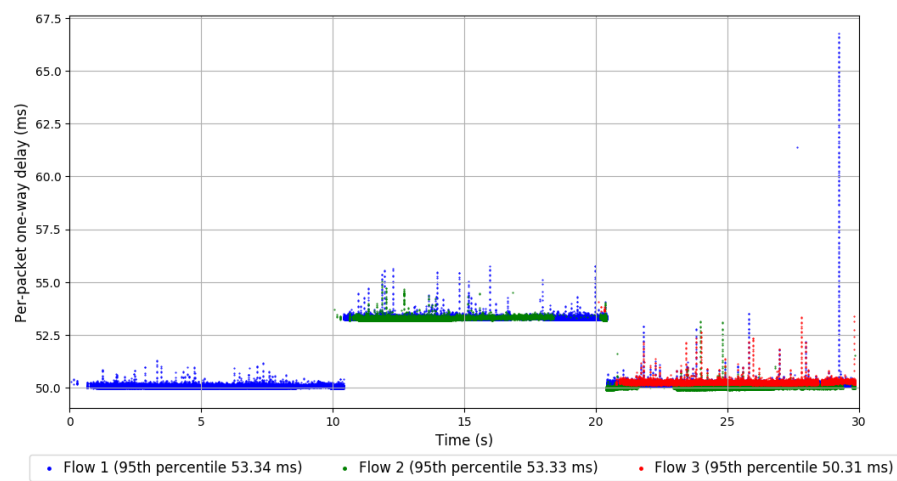
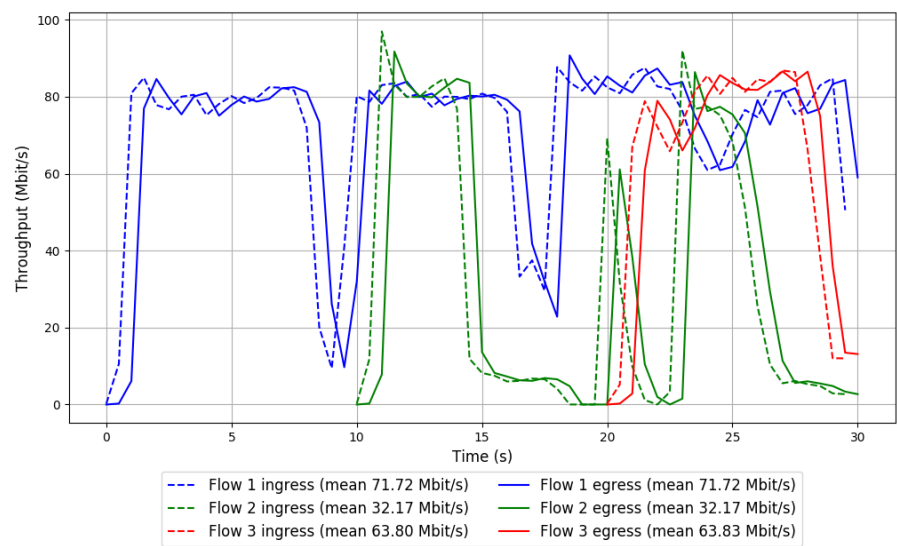


Run 2: Statistics of QUIC Cubic

Start at: 2018-07-20 07:44:36  
End at: 2018-07-20 07:45:06  
Local clock offset: -0.249 ms  
Remote clock offset: -0.102 ms

# Below is generated by plot.py at 2018-07-20 13:49:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 114.00 Mbit/s  
95th percentile per-packet one-way delay: 53.328 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 71.72 Mbit/s  
95th percentile per-packet one-way delay: 53.339 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 32.17 Mbit/s  
95th percentile per-packet one-way delay: 53.325 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 63.83 Mbit/s  
95th percentile per-packet one-way delay: 50.311 ms  
Loss rate: 0.00%

Run 2: Report of QUIC Cubic — Data Link



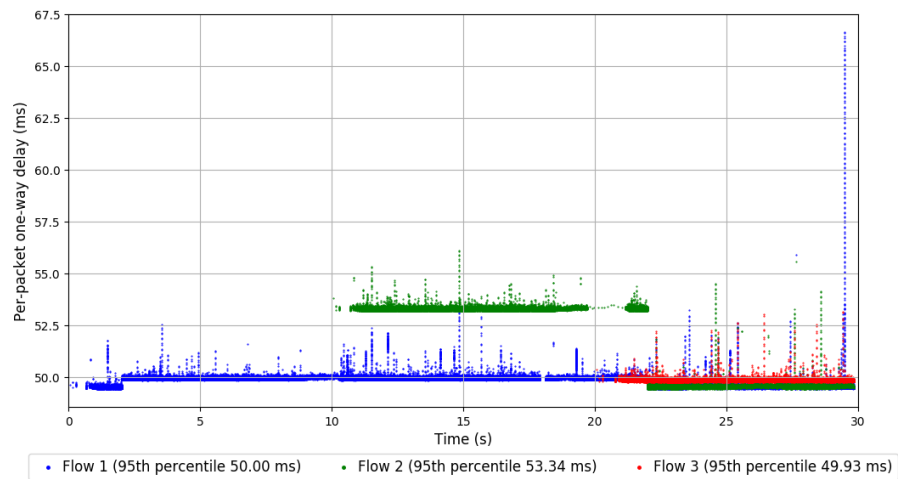
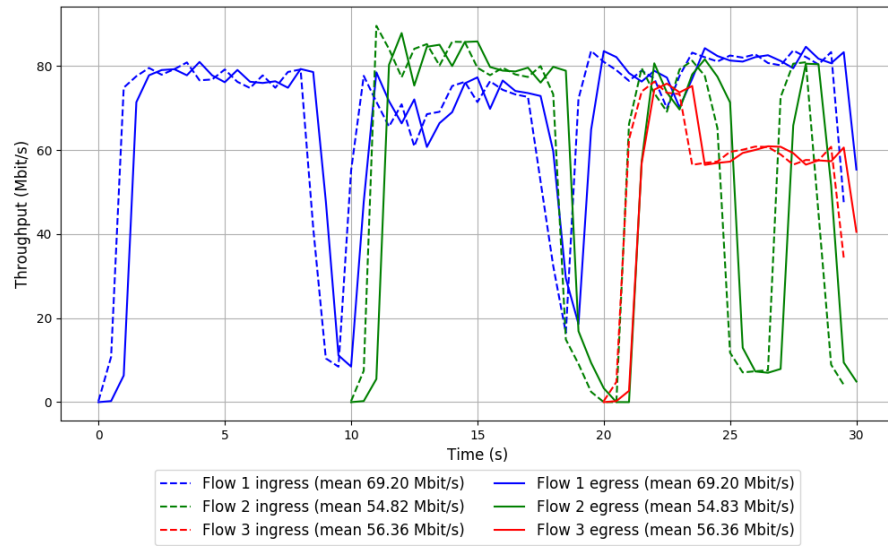
Run 3: Statistics of QUIC Cubic

Start at: 2018-07-20 08:09:25  
End at: 2018-07-20 08:09:55  
Local clock offset: 0.02 ms  
Remote clock offset: -0.361 ms

# Below is generated by plot.py at 2018-07-20 13:49:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 124.10 Mbit/s  
95th percentile per-packet one-way delay: 53.288 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 69.20 Mbit/s  
95th percentile per-packet one-way delay: 49.996 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 54.83 Mbit/s  
95th percentile per-packet one-way delay: 53.344 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 56.36 Mbit/s  
95th percentile per-packet one-way delay: 49.926 ms  
Loss rate: 0.00%



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



Run 4: Statistics of QUIC Cubic

Start at: 2018-07-20 08:34:34

End at: 2018-07-20 08:35:04

Local clock offset: -0.028 ms

Remote clock offset: 0.069 ms

# Below is generated by plot.py at 2018-07-20 13:49:49

# Datalink statistics

-- Total of 3 flows:

Average throughput: 130.68 Mbit/s

95th percentile per-packet one-way delay: 53.636 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 70.16 Mbit/s

95th percentile per-packet one-way delay: 50.694 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 67.14 Mbit/s

95th percentile per-packet one-way delay: 50.699 ms

Loss rate: 0.00%

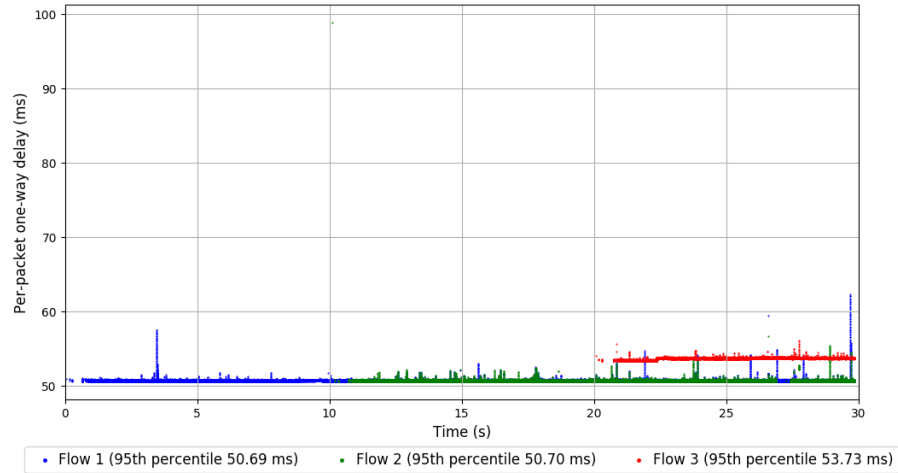
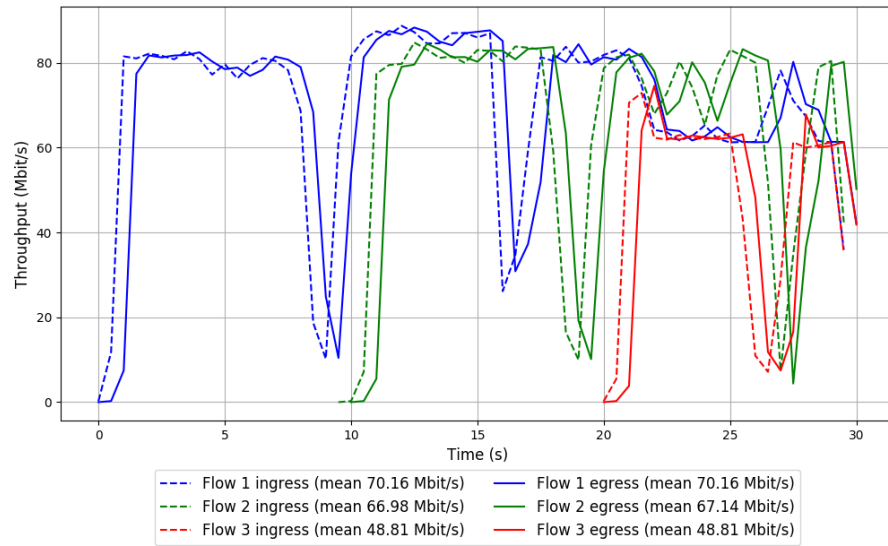
-- Flow 3:

Average throughput: 48.81 Mbit/s

95th percentile per-packet one-way delay: 53.725 ms

Loss rate: 0.00%

#### Run 4: Report of QUIC Cubic — Data Link

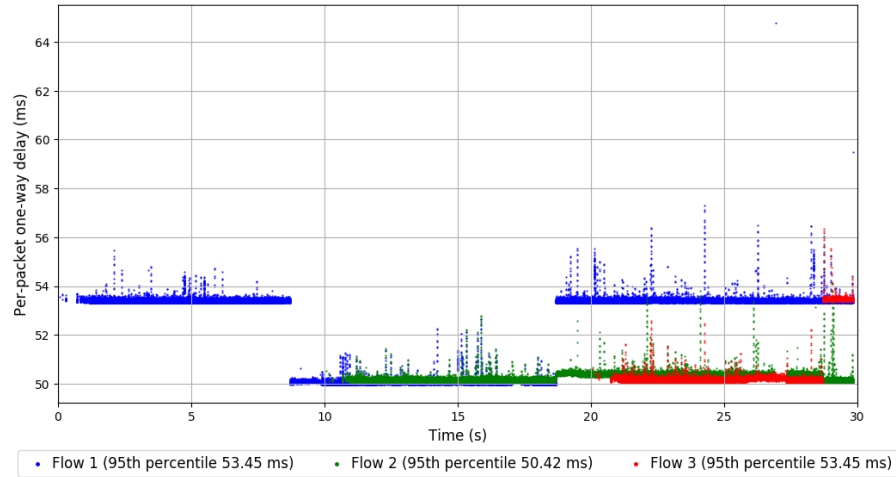
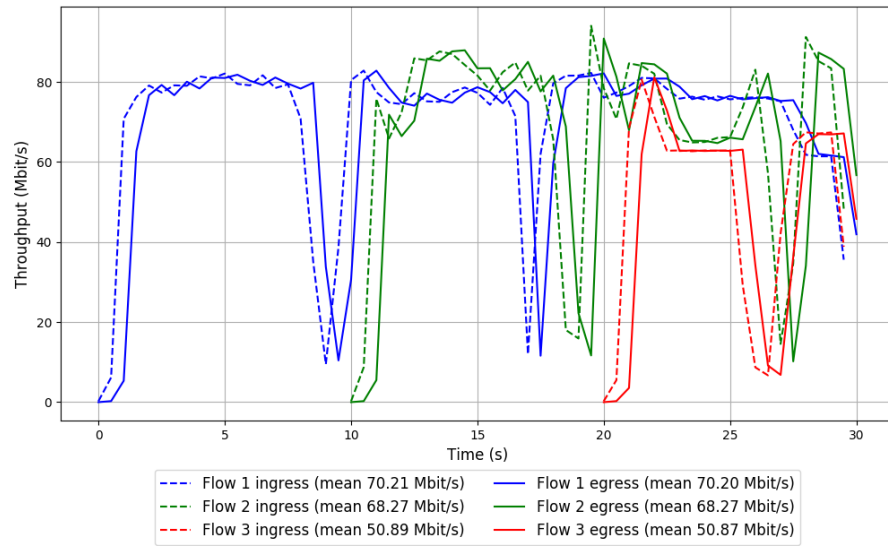


Run 5: Statistics of QUIC Cubic

Start at: 2018-07-20 08:59:18  
End at: 2018-07-20 08:59:48  
Local clock offset: 0.015 ms  
Remote clock offset: -0.039 ms

# Below is generated by plot.py at 2018-07-20 13:49:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 132.23 Mbit/s  
95th percentile per-packet one-way delay: 53.435 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 70.20 Mbit/s  
95th percentile per-packet one-way delay: 53.451 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 68.27 Mbit/s  
95th percentile per-packet one-way delay: 50.425 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 50.87 Mbit/s  
95th percentile per-packet one-way delay: 53.448 ms  
Loss rate: 0.03%

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

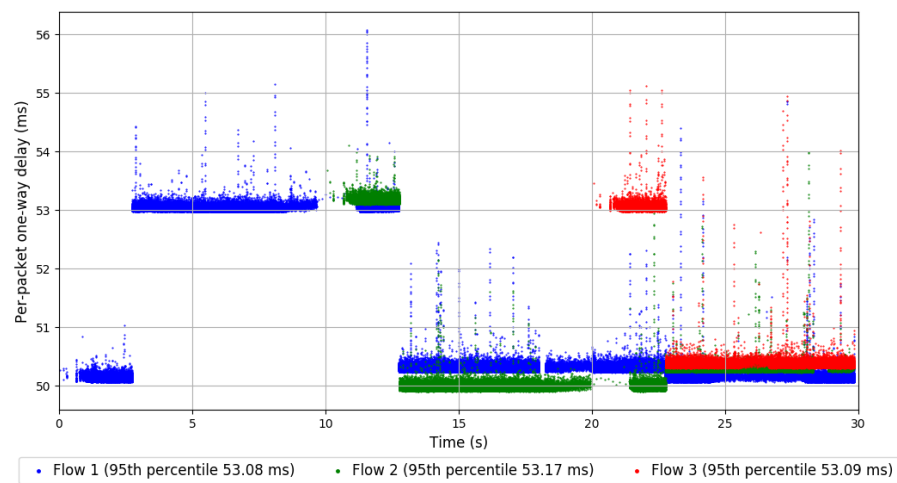
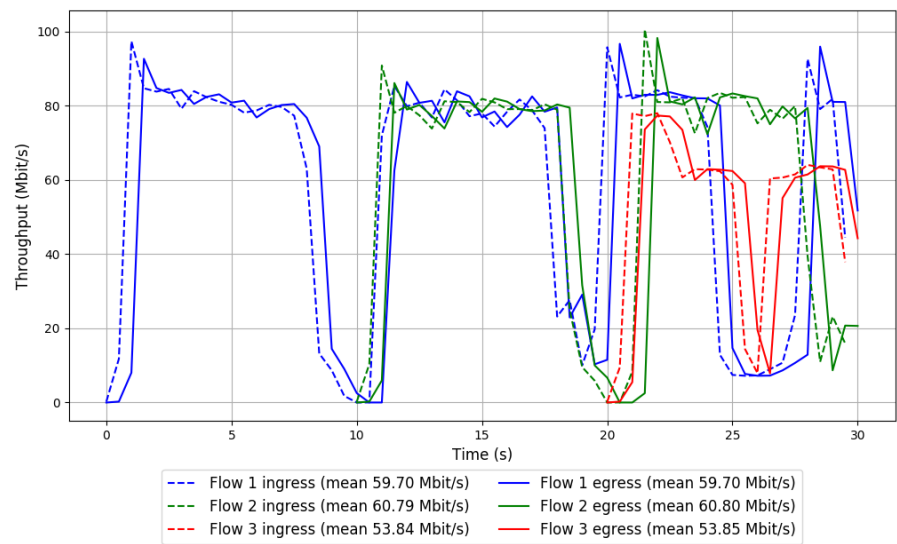


Run 6: Statistics of QUIC Cubic

Start at: 2018-07-20 09:24:34  
End at: 2018-07-20 09:25:04  
Local clock offset: -0.045 ms  
Remote clock offset: -0.193 ms

# Below is generated by plot.py at 2018-07-20 13:49:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 117.75 Mbit/s  
95th percentile per-packet one-way delay: 53.122 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 59.70 Mbit/s  
95th percentile per-packet one-way delay: 53.081 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 60.80 Mbit/s  
95th percentile per-packet one-way delay: 53.175 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 53.85 Mbit/s  
95th percentile per-packet one-way delay: 53.093 ms  
Loss rate: 0.00%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-07-20 09:49:41

End at: 2018-07-20 09:50:11

Local clock offset: 0.113 ms

Remote clock offset: 0.045 ms

# Below is generated by plot.py at 2018-07-20 13:49:49

# Datalink statistics

-- Total of 3 flows:

Average throughput: 129.73 Mbit/s

95th percentile per-packet one-way delay: 53.671 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 68.42 Mbit/s

95th percentile per-packet one-way delay: 53.558 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 66.48 Mbit/s

95th percentile per-packet one-way delay: 53.710 ms

Loss rate: 0.00%

-- Flow 3:

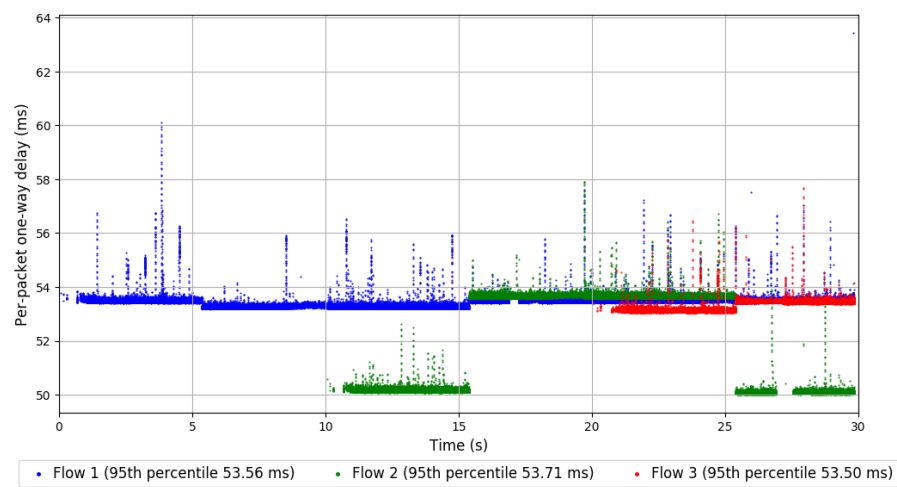
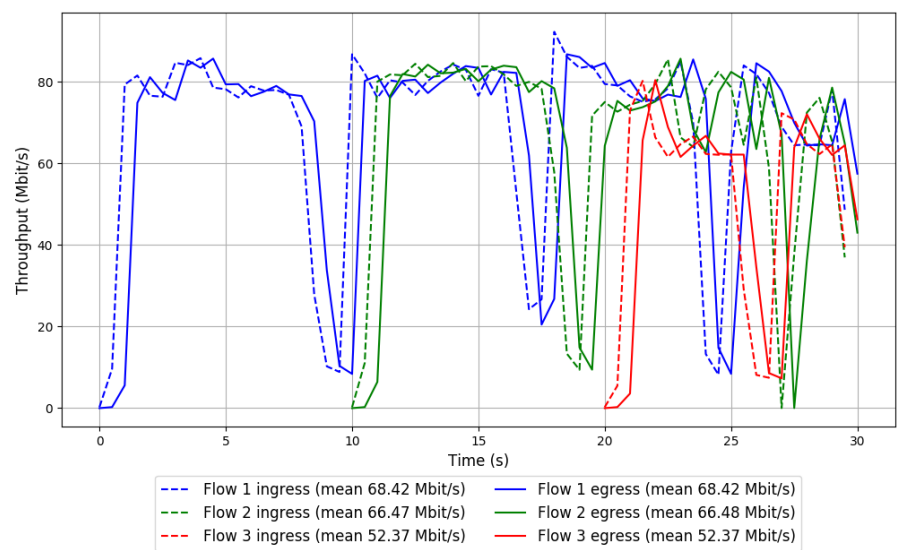
Average throughput: 52.37 Mbit/s

95th percentile per-packet one-way delay: 53.504 ms

Loss rate: 0.03%



Run 7: Report of QUIC Cubic — Data Link

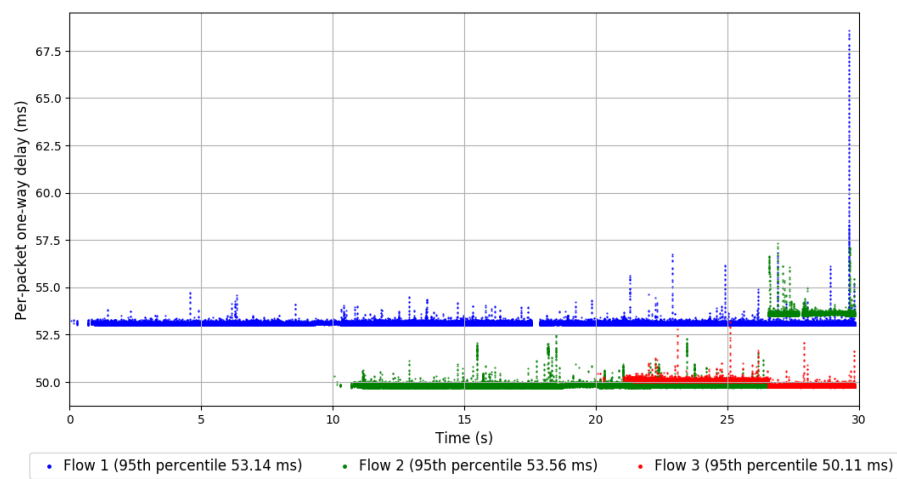
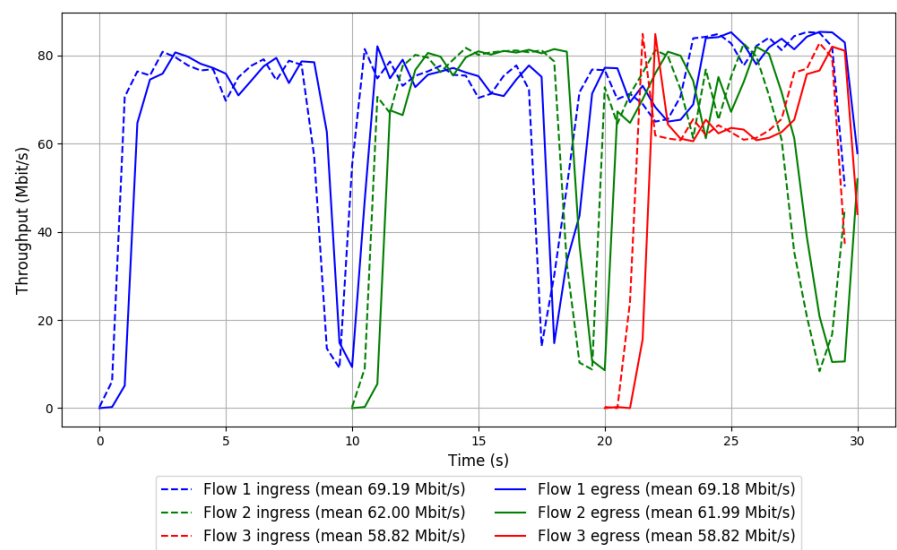


Run 8: Statistics of QUIC Cubic

Start at: 2018-07-20 10:14:40  
End at: 2018-07-20 10:15:10  
Local clock offset: -0.218 ms  
Remote clock offset: -0.237 ms

# Below is generated by plot.py at 2018-07-20 13:49:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 129.68 Mbit/s  
95th percentile per-packet one-way delay: 53.165 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 69.18 Mbit/s  
95th percentile per-packet one-way delay: 53.143 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 61.99 Mbit/s  
95th percentile per-packet one-way delay: 53.562 ms  
Loss rate: 0.01%  
-- Flow 3:  
Average throughput: 58.82 Mbit/s  
95th percentile per-packet one-way delay: 50.114 ms  
Loss rate: 0.00%

Run 8: Report of QUIC Cubic — Data Link

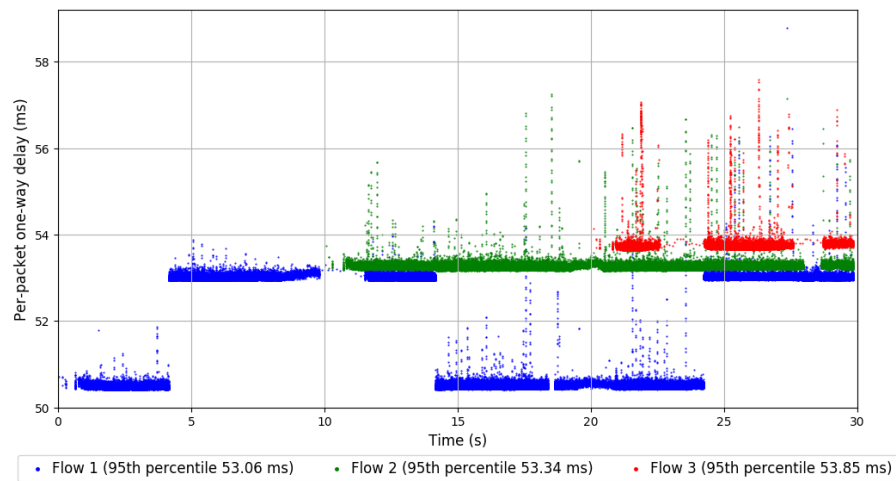
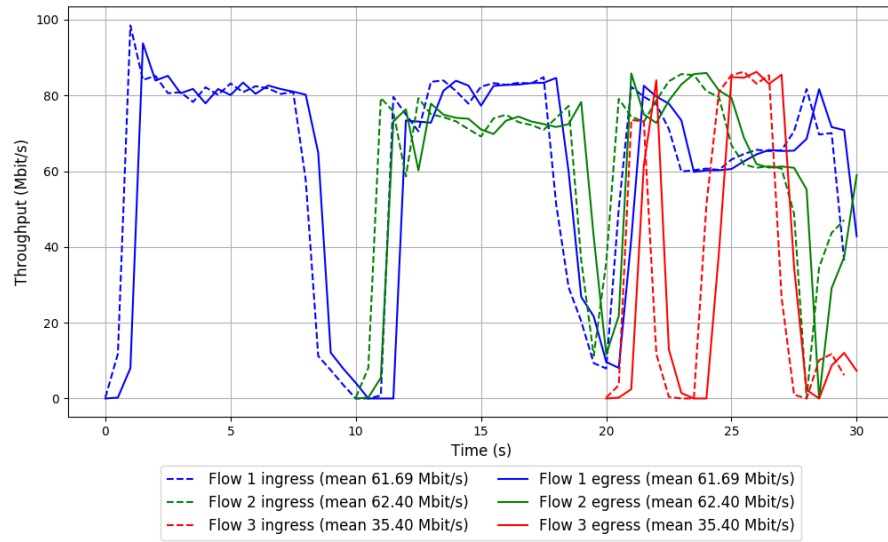


Run 9: Statistics of QUIC Cubic

Start at: 2018-07-20 10:39:32  
End at: 2018-07-20 10:40:02  
Local clock offset: -0.105 ms  
Remote clock offset: -0.063 ms

# Below is generated by plot.py at 2018-07-20 13:49:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 114.72 Mbit/s  
95th percentile per-packet one-way delay: 53.722 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 61.69 Mbit/s  
95th percentile per-packet one-way delay: 53.064 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 62.40 Mbit/s  
95th percentile per-packet one-way delay: 53.343 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 35.40 Mbit/s  
95th percentile per-packet one-way delay: 53.846 ms  
Loss rate: 0.00%

# Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-07-20 11:04:17

End at: 2018-07-20 11:04:47

Local clock offset: -0.233 ms

Remote clock offset: -0.08 ms

# Below is generated by plot.py at 2018-07-20 13:49:49

# Datalink statistics

-- Total of 3 flows:

Average throughput: 126.56 Mbit/s

95th percentile per-packet one-way delay: 53.979 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 68.42 Mbit/s

95th percentile per-packet one-way delay: 54.002 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 61.96 Mbit/s

95th percentile per-packet one-way delay: 53.202 ms

Loss rate: 0.00%

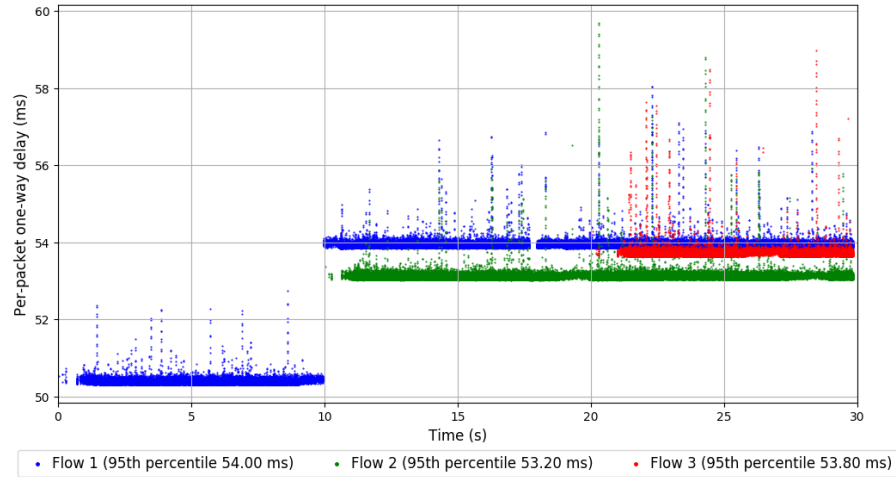
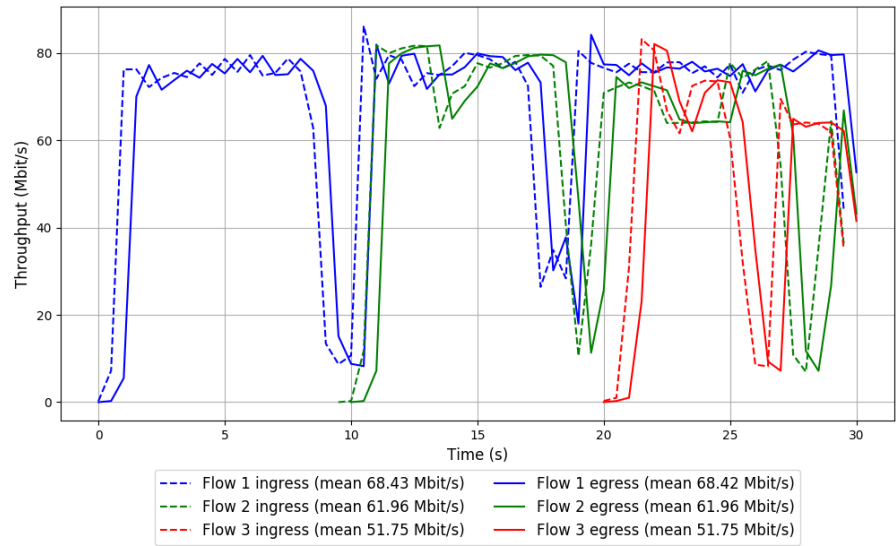
-- Flow 3:

Average throughput: 51.75 Mbit/s

95th percentile per-packet one-way delay: 53.802 ms

Loss rate: 0.00%

# Run 10: Report of QUIC Cubic — Data Link



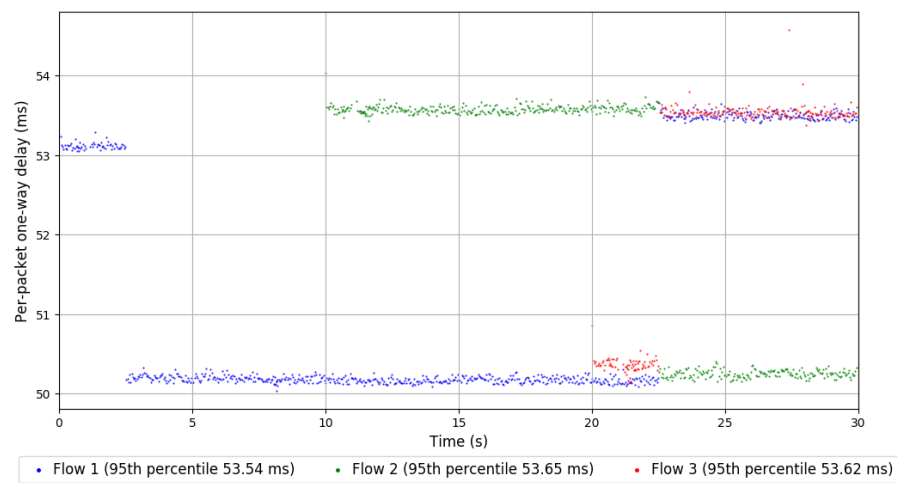
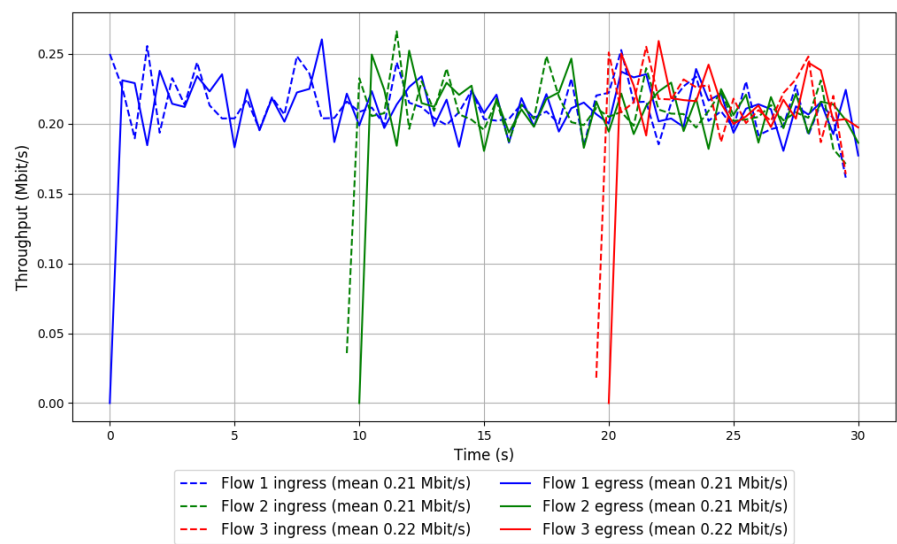
Run 1: Statistics of SReAM

Start at: 2018-07-20 07:25:04  
End at: 2018-07-20 07:25:34  
Local clock offset: -0.121 ms  
Remote clock offset: -0.184 ms

# Below is generated by plot.py at 2018-07-20 13:49:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 53.615 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 53.540 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 53.649 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 53.617 ms  
Loss rate: 0.00%



Run 1: Report of SReAM — Data Link



Run 2: Statistics of SReAM

Start at: 2018-07-20 07:50:12

End at: 2018-07-20 07:50:42

Local clock offset: -0.326 ms

Remote clock offset: 1.378 ms

# Below is generated by plot.py at 2018-07-20 13:49:49

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 55.622 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 55.559 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 54.943 ms

Loss rate: 0.00%

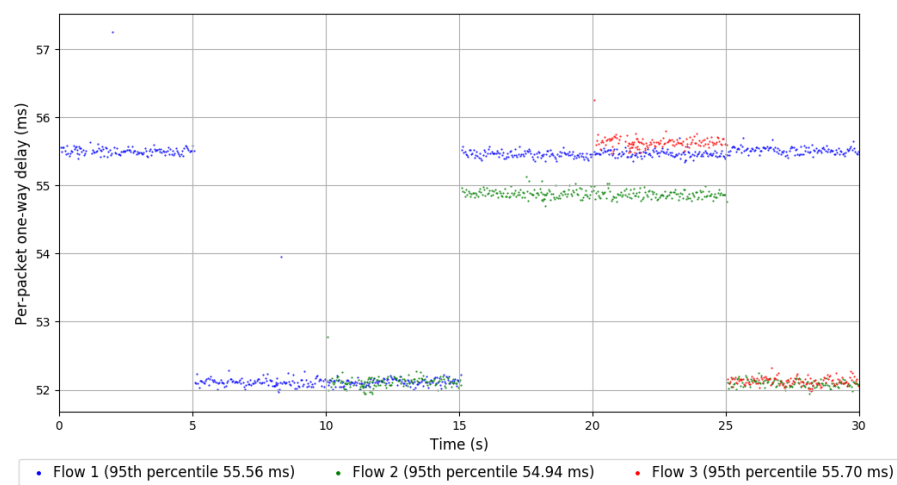
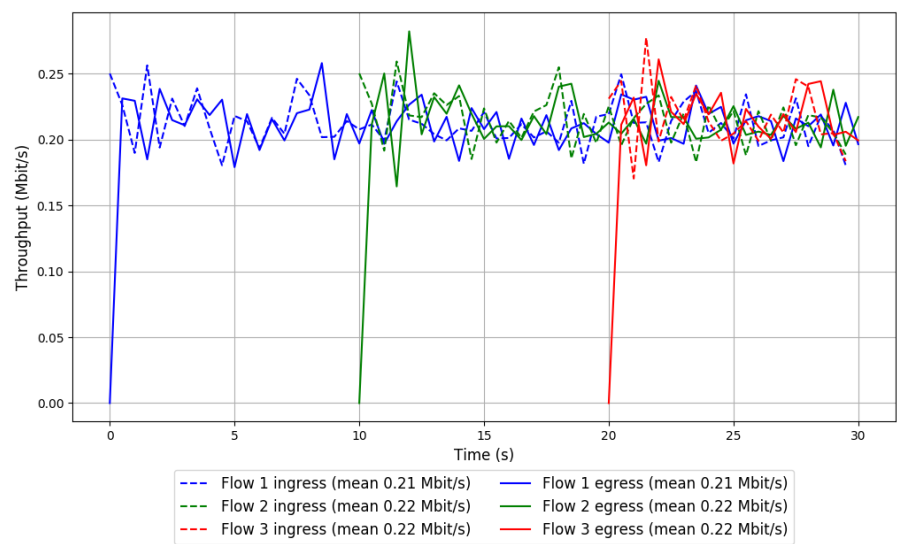
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 55.703 ms

Loss rate: 0.00%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SReAM

Start at: 2018-07-20 08:15:03

End at: 2018-07-20 08:15:33

Local clock offset: -0.017 ms

Remote clock offset: 0.942 ms

# Below is generated by plot.py at 2018-07-20 13:49:49

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 54.891 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 54.920 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 51.481 ms

Loss rate: 0.00%

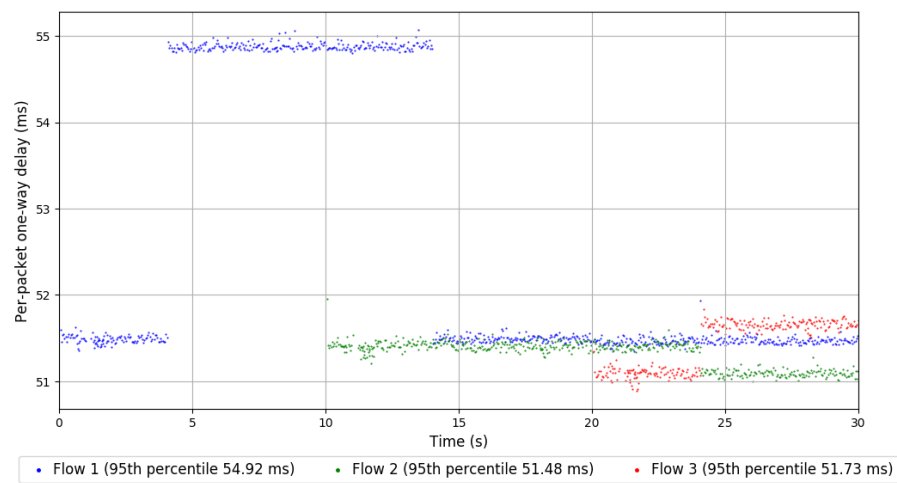
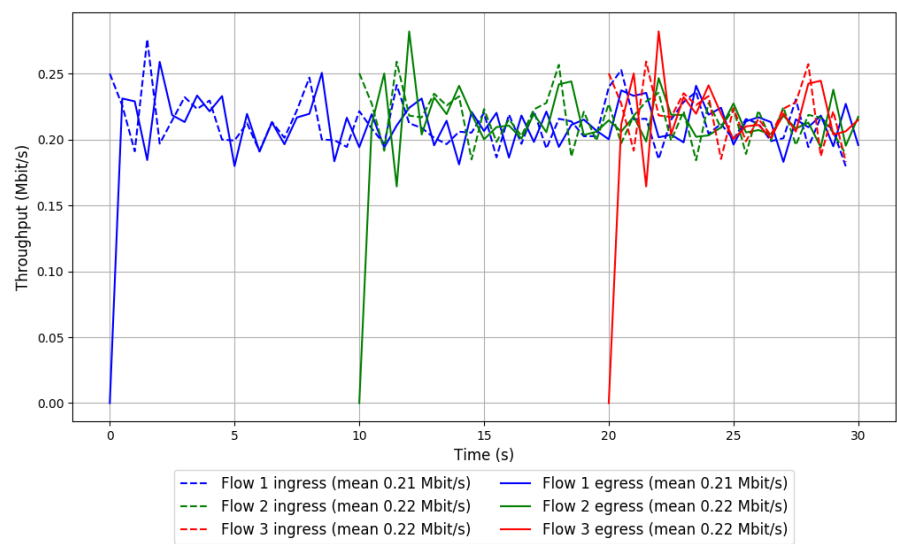
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 51.727 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SReAM

Start at: 2018-07-20 08:40:11

End at: 2018-07-20 08:40:41

Local clock offset: 0.179 ms

Remote clock offset: -1.41 ms

# Below is generated by plot.py at 2018-07-20 13:49:49

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 52.209 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 48.878 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 49.311 ms

Loss rate: 0.00%

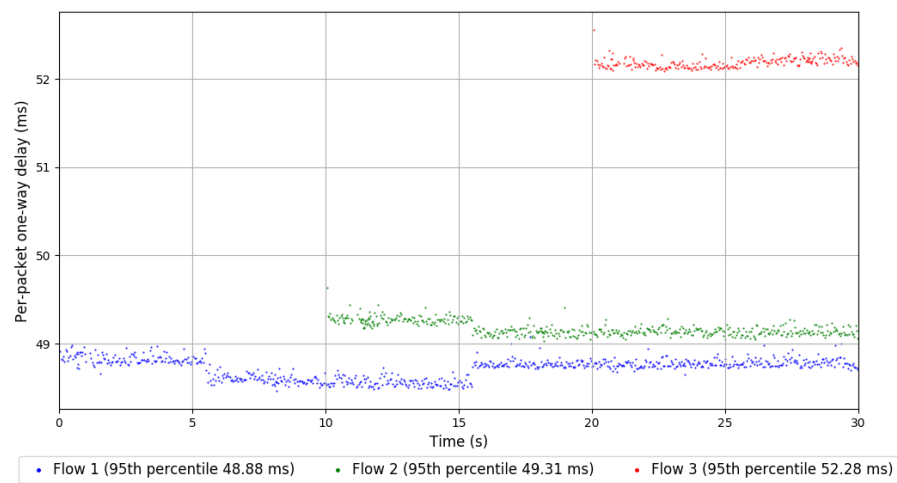
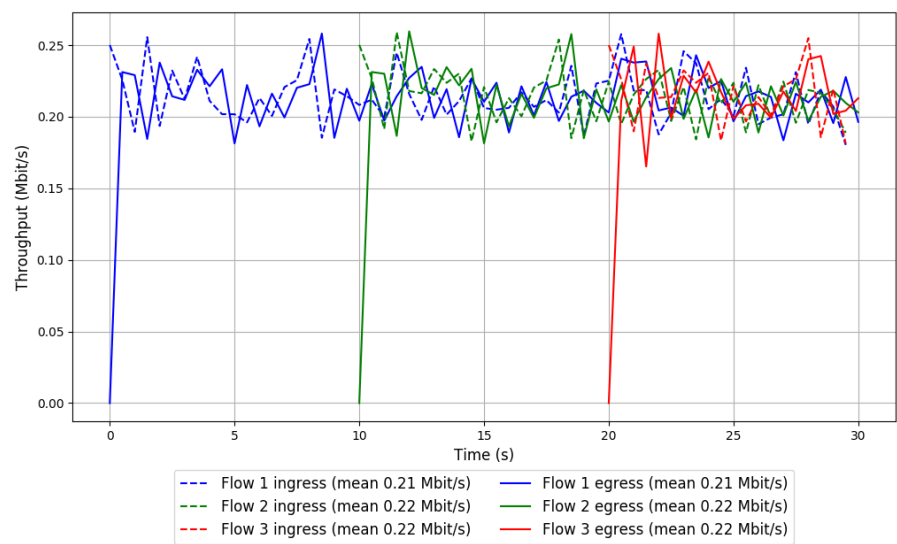
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 52.284 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



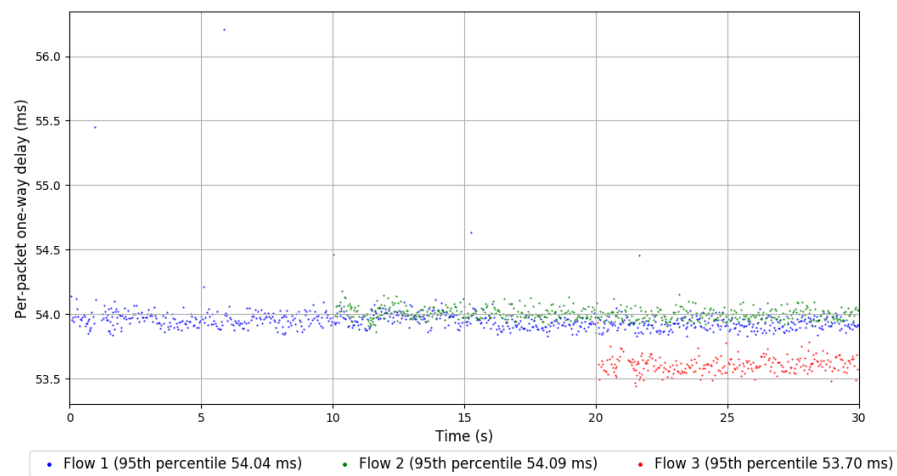
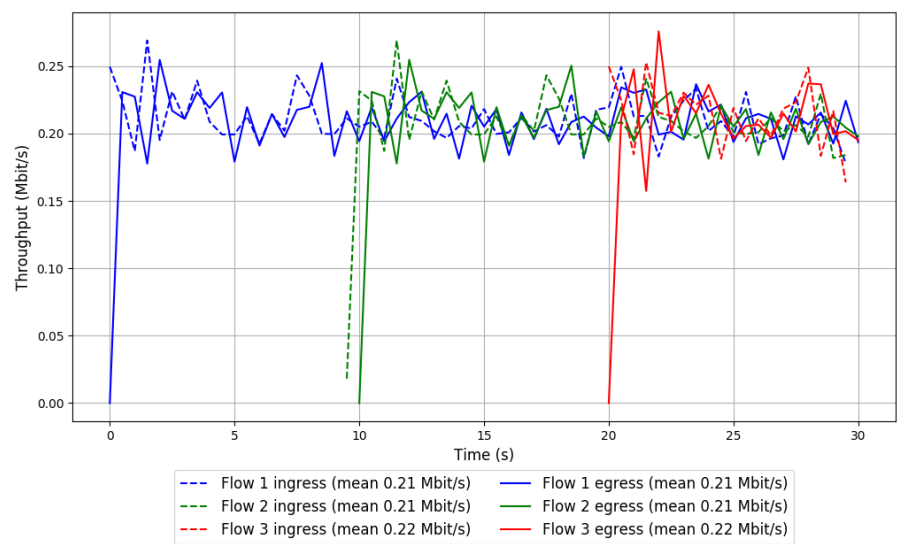
Run 5: Statistics of SReAM

Start at: 2018-07-20 09:04:54  
End at: 2018-07-20 09:05:24  
Local clock offset: -0.216 ms  
Remote clock offset: -0.024 ms

# Below is generated by plot.py at 2018-07-20 13:49:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.42 Mbit/s  
95th percentile per-packet one-way delay: 54.064 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 54.038 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 54.087 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 53.698 ms  
Loss rate: 0.00%



Run 5: Report of SCReAM — Data Link

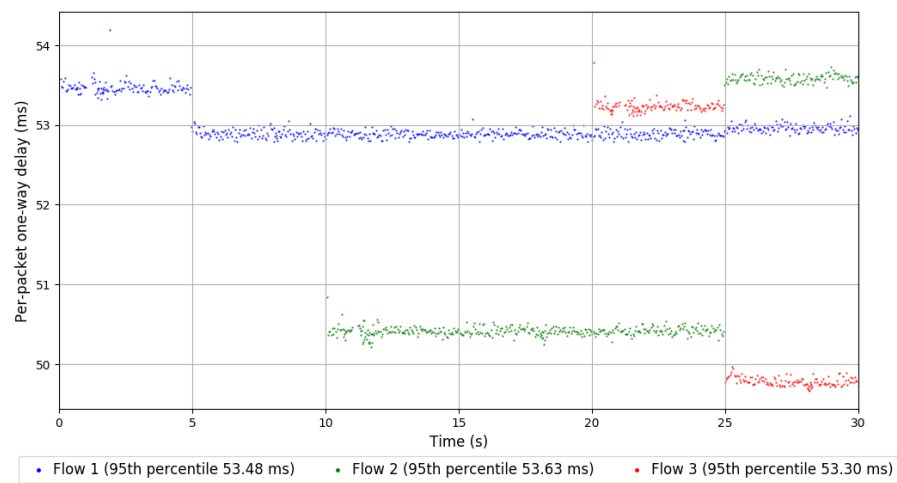
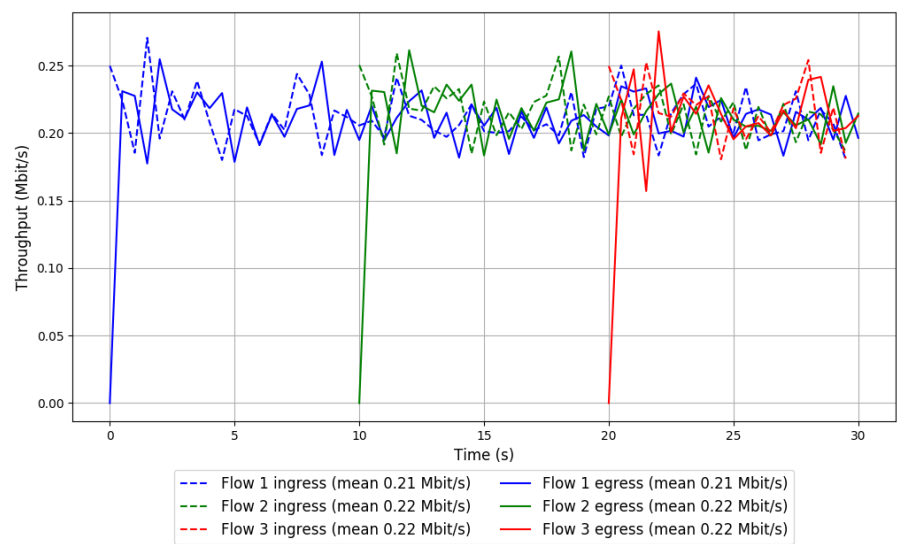


Run 6: Statistics of SReAM

Start at: 2018-07-20 09:30:12  
End at: 2018-07-20 09:30:42  
Local clock offset: 0.156 ms  
Remote clock offset: -0.122 ms

# Below is generated by plot.py at 2018-07-20 13:49:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 53.577 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 53.481 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 53.626 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 53.305 ms  
Loss rate: 0.00%

Run 6: Report of SReAM — Data Link

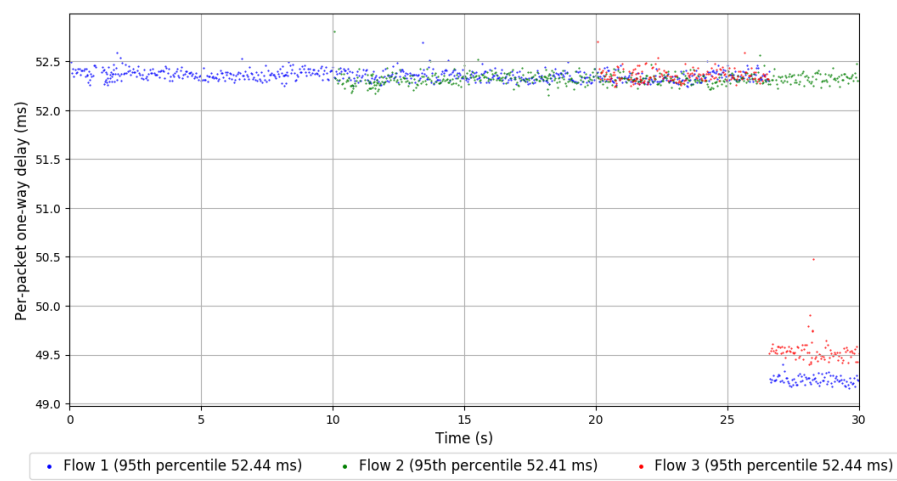
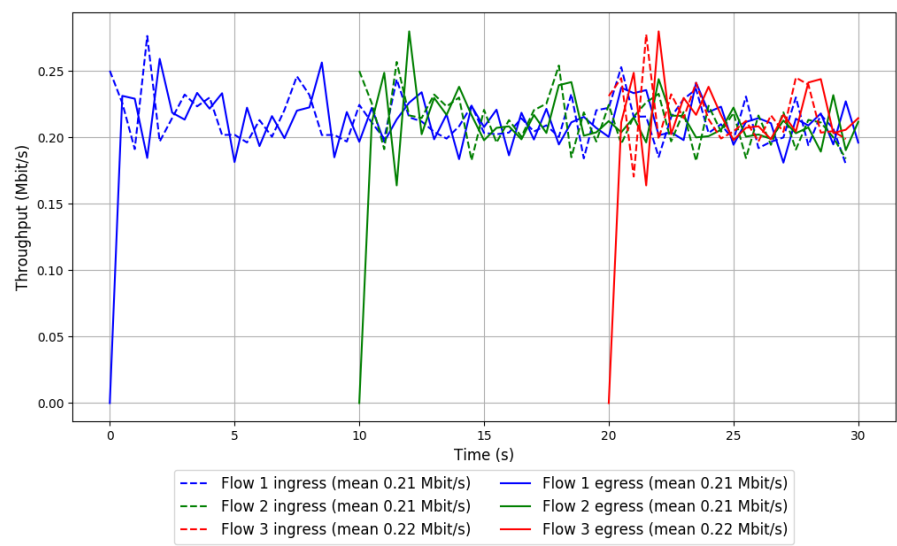


Run 7: Statistics of SReAM

Start at: 2018-07-20 09:55:20  
End at: 2018-07-20 09:55:50  
Local clock offset: 0.019 ms  
Remote clock offset: -1.357 ms

# Below is generated by plot.py at 2018-07-20 13:49:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 52.432 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 52.439 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 52.410 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 52.442 ms  
Loss rate: 0.00%

Run 7: Report of SReAM — Data Link

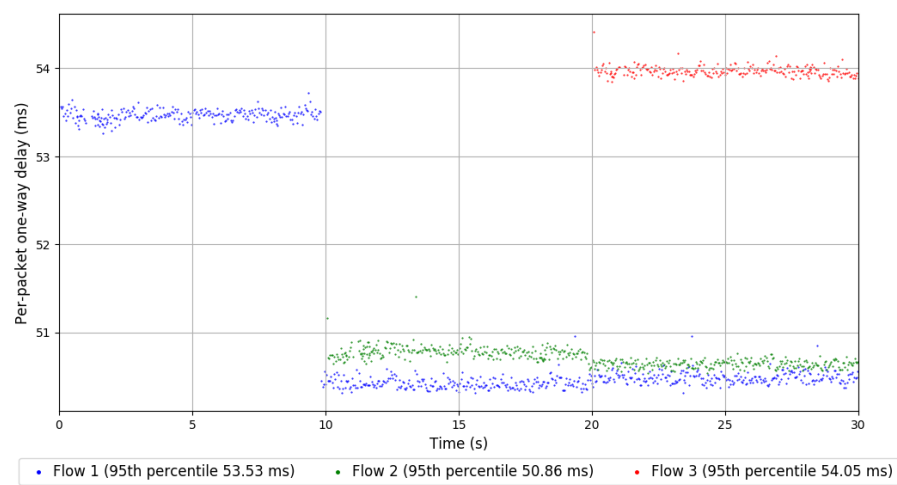
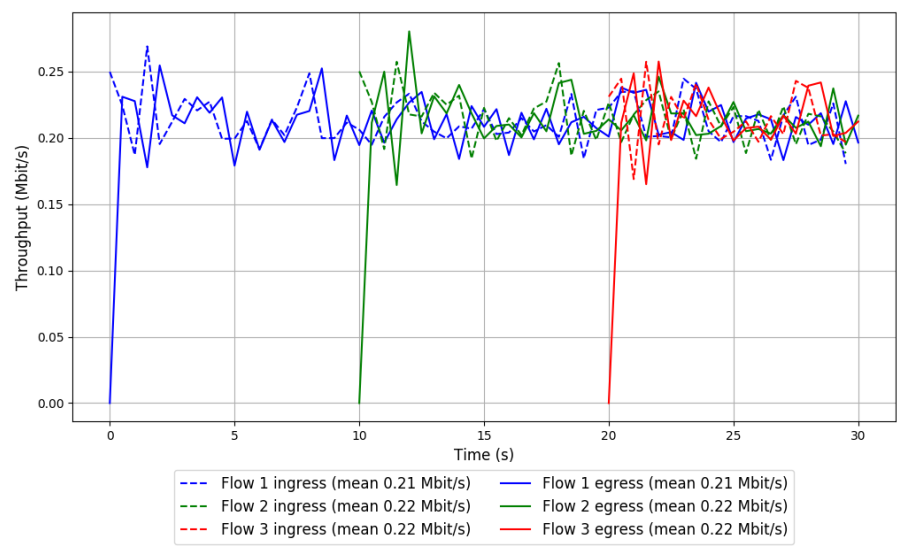


Run 8: Statistics of SReAM

Start at: 2018-07-20 10:20:17  
End at: 2018-07-20 10:20:47  
Local clock offset: -0.18 ms  
Remote clock offset: -0.005 ms

# Below is generated by plot.py at 2018-07-20 13:49:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 53.991 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 53.531 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 50.857 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 54.052 ms  
Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



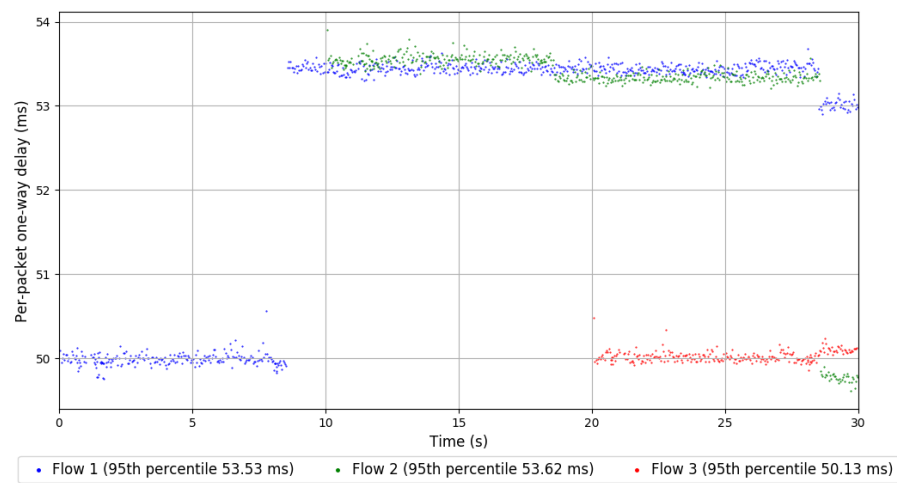
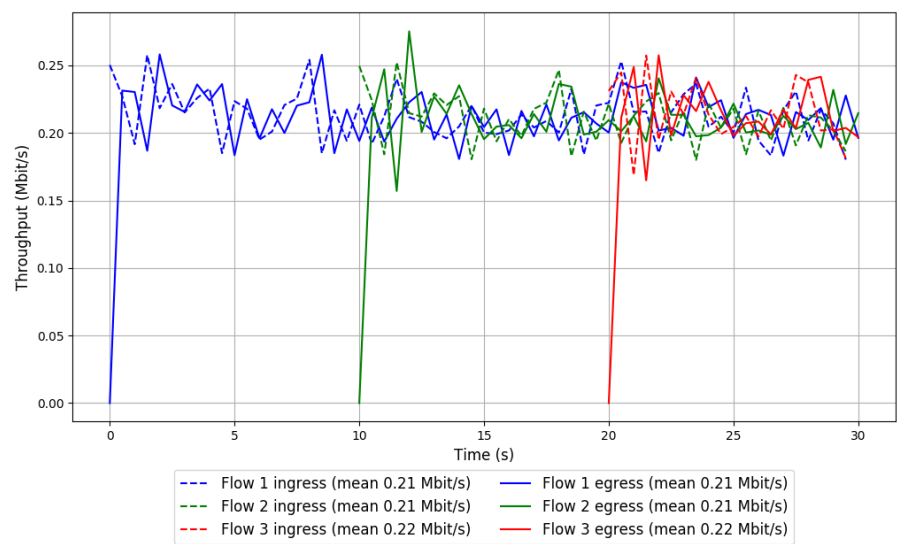
Run 9: Statistics of SReAM

Start at: 2018-07-20 10:45:08  
End at: 2018-07-20 10:45:38  
Local clock offset: 0.225 ms  
Remote clock offset: -0.186 ms

# Below is generated by plot.py at 2018-07-20 13:49:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 53.579 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 53.528 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 53.624 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 50.131 ms  
Loss rate: 0.00%



Run 9: Report of SReAM — Data Link

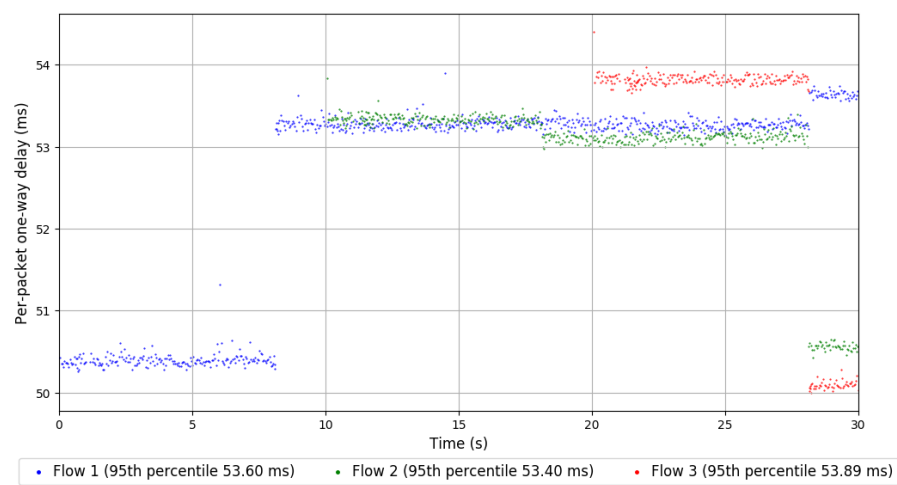
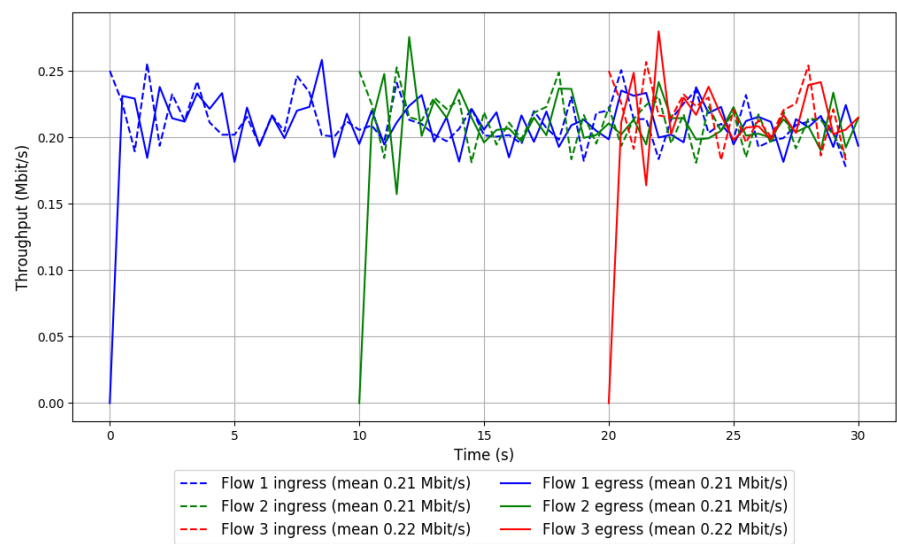


Run 10: Statistics of SReAM

Start at: 2018-07-20 11:09:59  
End at: 2018-07-20 11:10:29  
Local clock offset: 0.103 ms  
Remote clock offset: -0.008 ms

# Below is generated by plot.py at 2018-07-20 13:49:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 53.845 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 53.603 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 53.397 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 53.892 ms  
Loss rate: 0.00%

Run 10: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2018-07-20 07:07:45

End at: 2018-07-20 07:08:15

Local clock offset: 0.16 ms

Remote clock offset: 1.293 ms

# Below is generated by plot.py at 2018-07-20 13:49:49

# Datalink statistics

-- Total of 3 flows:

Average throughput: 13.94 Mbit/s

95th percentile per-packet one-way delay: 55.342 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 6.85 Mbit/s

95th percentile per-packet one-way delay: 55.346 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 7.25 Mbit/s

95th percentile per-packet one-way delay: 55.259 ms

Loss rate: 0.00%

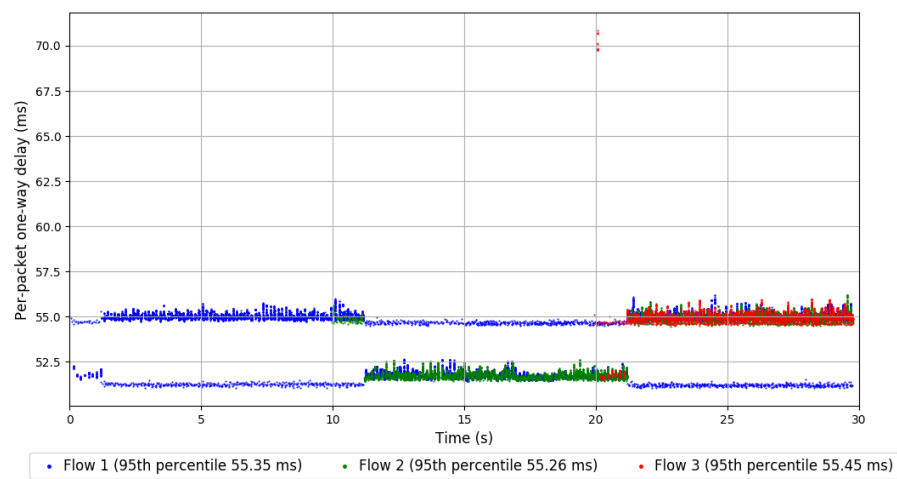
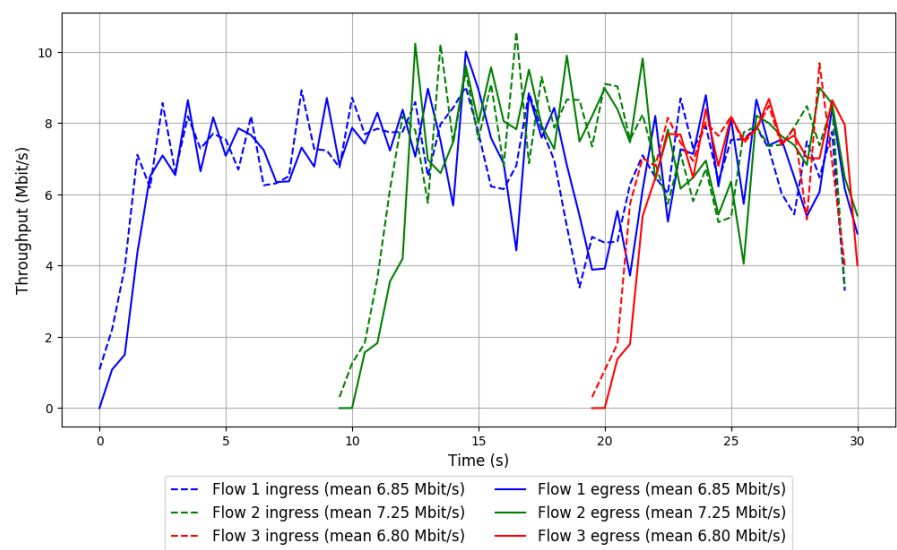
-- Flow 3:

Average throughput: 6.80 Mbit/s

95th percentile per-packet one-way delay: 55.454 ms

Loss rate: 0.00%

Run 1: Report of Sprout — Data Link

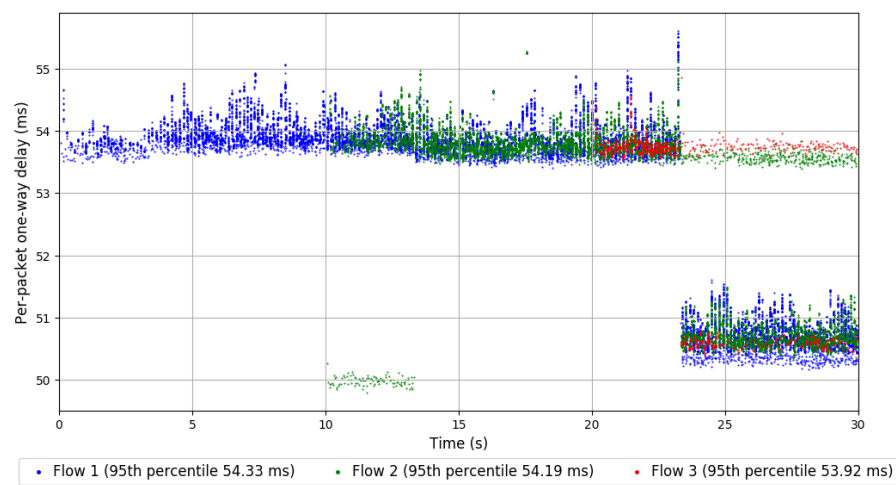
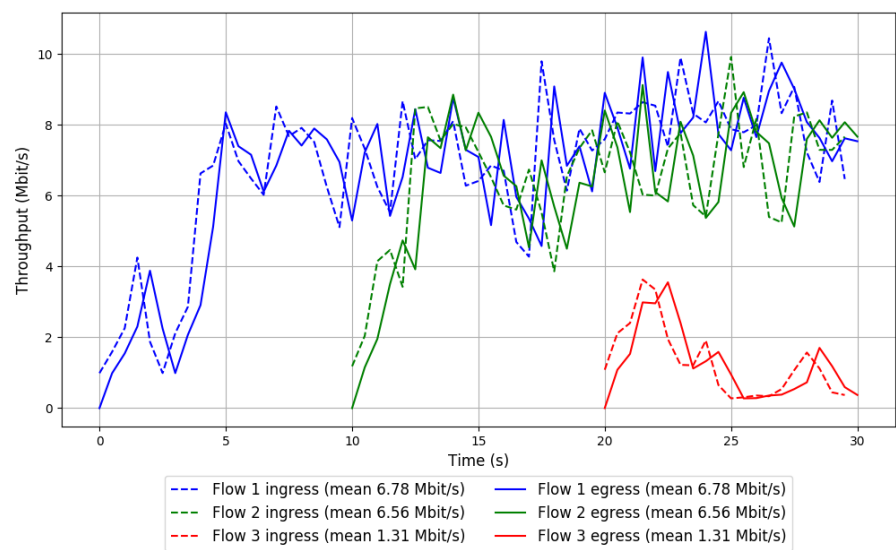


Run 2: Statistics of Sprout

Start at: 2018-07-20 07:32:43  
End at: 2018-07-20 07:33:13  
Local clock offset: -0.07 ms  
Remote clock offset: -0.054 ms

# Below is generated by plot.py at 2018-07-20 13:49:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 11.57 Mbit/s  
95th percentile per-packet one-way delay: 54.264 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 6.78 Mbit/s  
95th percentile per-packet one-way delay: 54.329 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 6.56 Mbit/s  
95th percentile per-packet one-way delay: 54.185 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 1.31 Mbit/s  
95th percentile per-packet one-way delay: 53.920 ms  
Loss rate: 0.00%

Run 2: Report of Sprout — Data Link



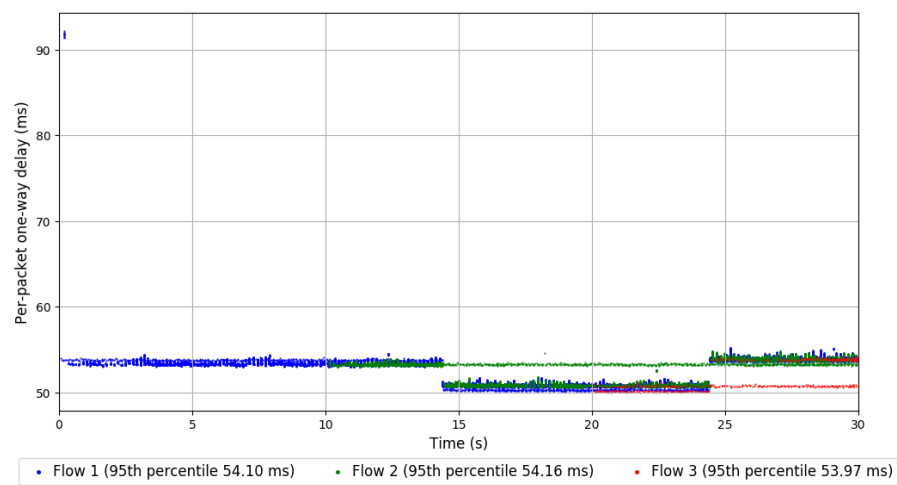
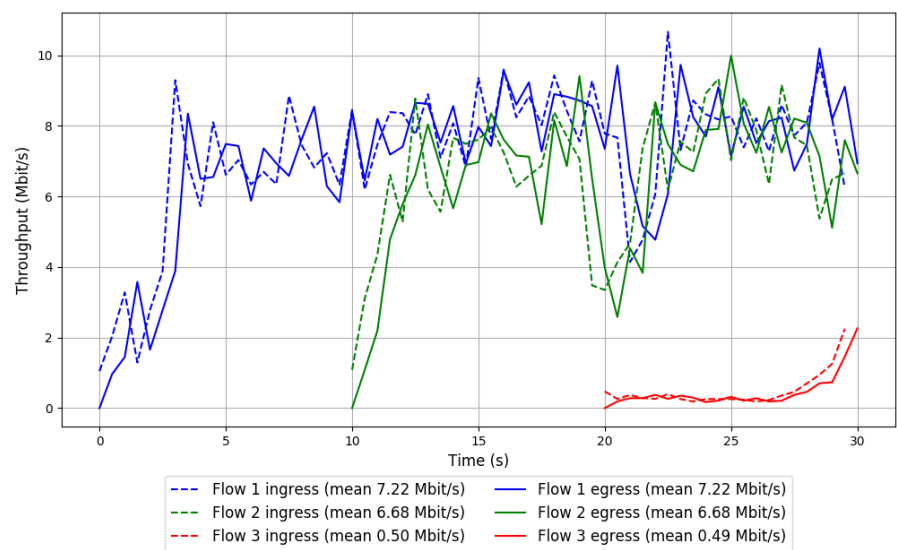
### Run 3: Statistics of Sprout

Start at: 2018-07-20 07:57:52  
End at: 2018-07-20 07:58:22  
Local clock offset: -0.282 ms  
Remote clock offset: -0.188 ms

```
# Below is generated by plot.py at 2018-07-20 13:49:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 11.82 Mbit/s
95th percentile per-packet one-way delay: 54.114 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 7.22 Mbit/s
95th percentile per-packet one-way delay: 54.098 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 6.68 Mbit/s
95th percentile per-packet one-way delay: 54.158 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.49 Mbit/s
95th percentile per-packet one-way delay: 53.973 ms
Loss rate: 2.63%
```



Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-07-20 08:22:42

End at: 2018-07-20 08:23:12

Local clock offset: -0.087 ms

Remote clock offset: 1.214 ms

# Below is generated by plot.py at 2018-07-20 13:49:49

# Datalink statistics

-- Total of 3 flows:

Average throughput: 11.51 Mbit/s

95th percentile per-packet one-way delay: 52.613 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 5.75 Mbit/s

95th percentile per-packet one-way delay: 52.514 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 6.24 Mbit/s

95th percentile per-packet one-way delay: 52.588 ms

Loss rate: 0.00%

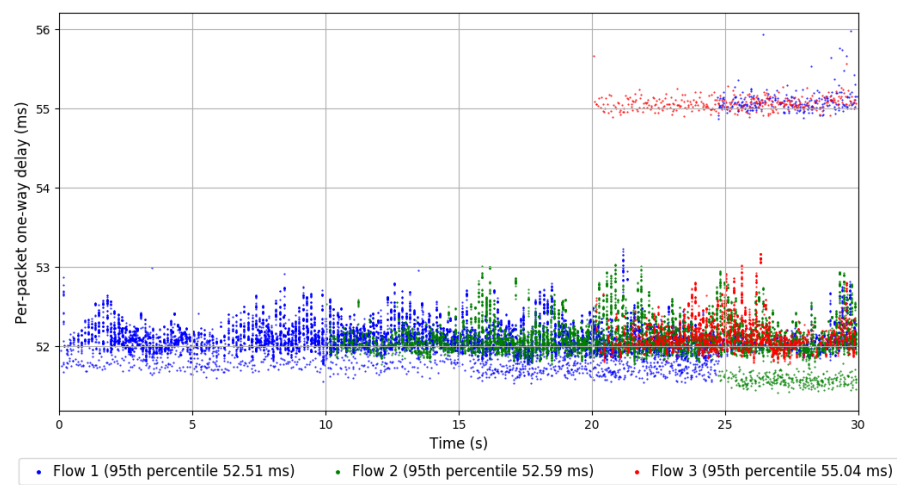
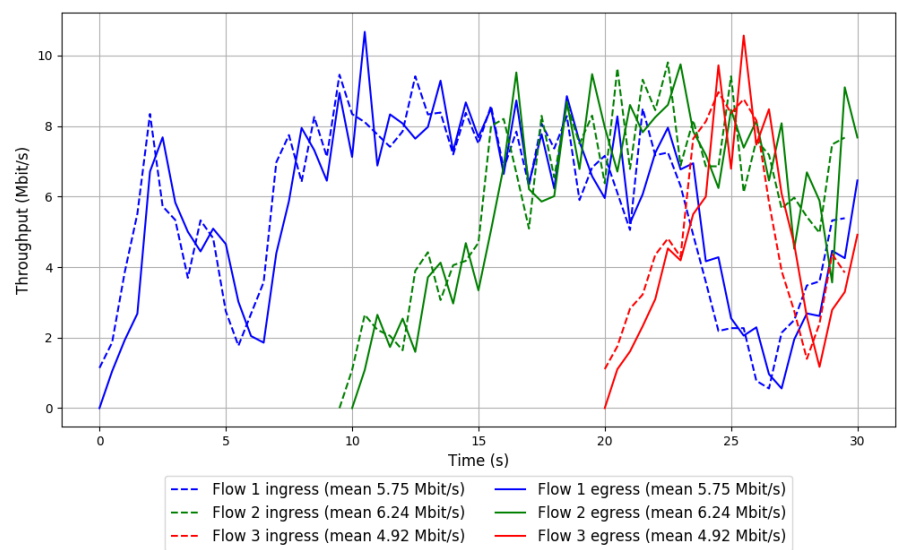
-- Flow 3:

Average throughput: 4.92 Mbit/s

95th percentile per-packet one-way delay: 55.042 ms

Loss rate: 0.00%

Run 4: Report of Sprout — Data Link

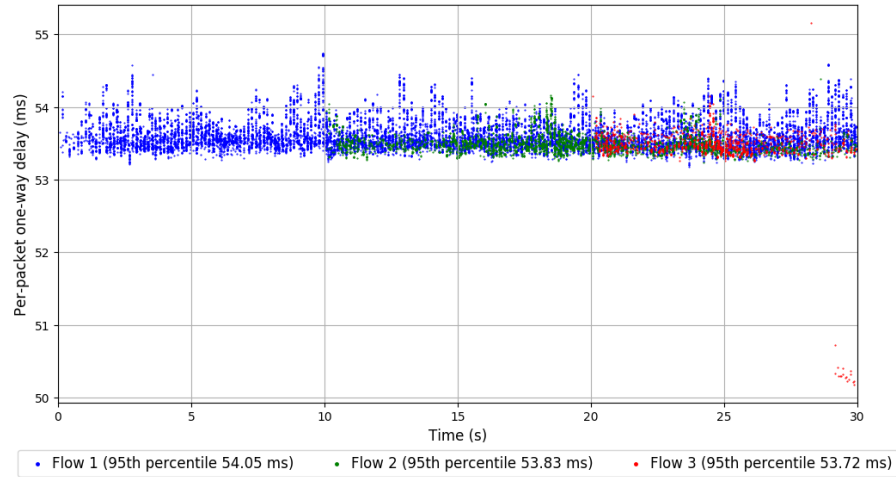
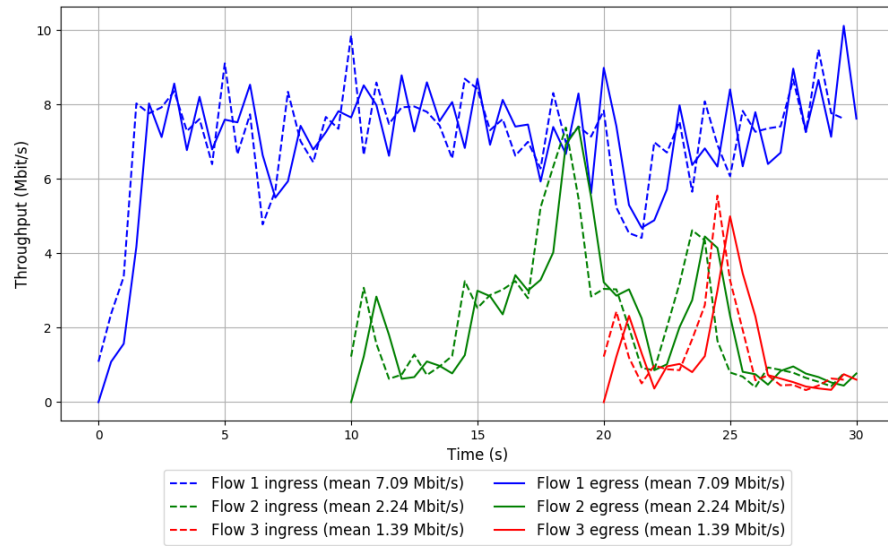


Run 5: Statistics of Sprout

Start at: 2018-07-20 08:47:38  
End at: 2018-07-20 08:48:08  
Local clock offset: 0.079 ms  
Remote clock offset: -0.186 ms

```
# Below is generated by plot.py at 2018-07-20 13:49:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 9.04 Mbit/s
95th percentile per-packet one-way delay: 54.000 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.09 Mbit/s
95th percentile per-packet one-way delay: 54.047 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 2.24 Mbit/s
95th percentile per-packet one-way delay: 53.826 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 1.39 Mbit/s
95th percentile per-packet one-way delay: 53.719 ms
Loss rate: 0.00%
```

## Run 5: Report of Sprout — Data Link

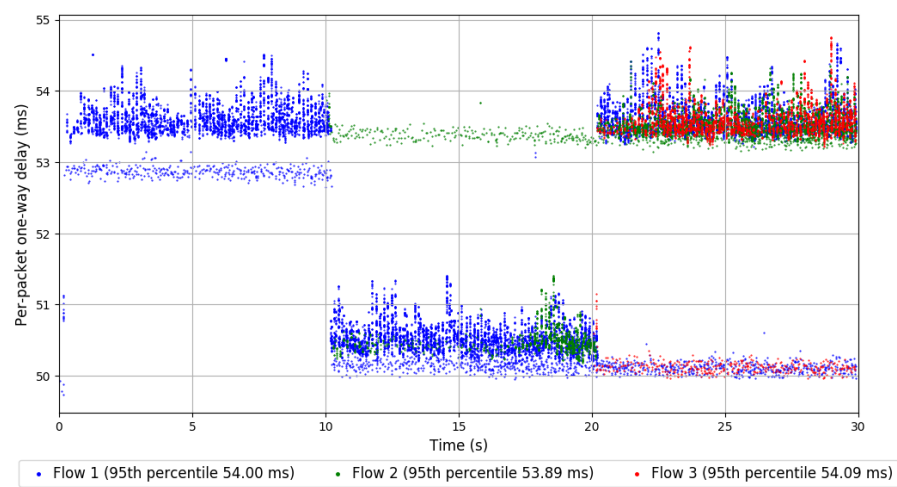
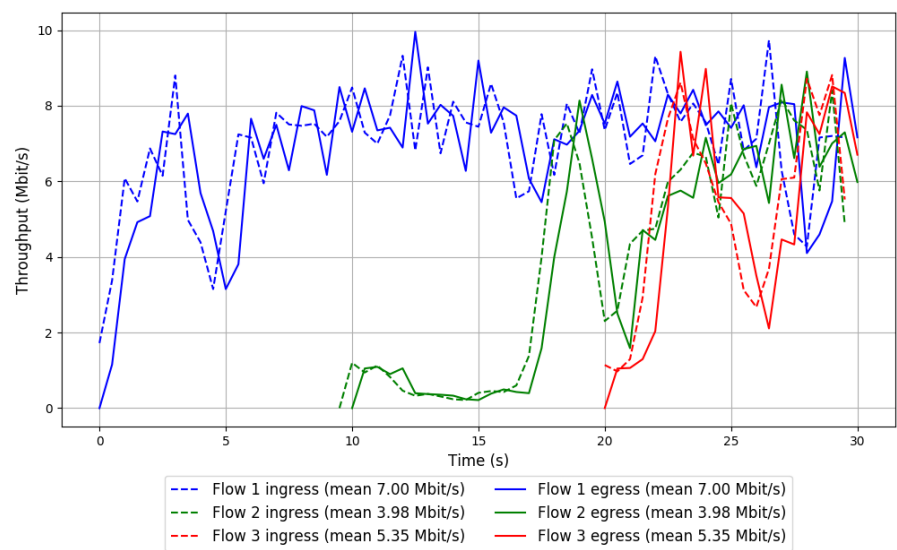


Run 6: Statistics of Sprout

Start at: 2018-07-20 09:12:36  
End at: 2018-07-20 09:13:06  
Local clock offset: 0.039 ms  
Remote clock offset: -0.201 ms

```
# Below is generated by plot.py at 2018-07-20 13:49:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 11.41 Mbit/s
95th percentile per-packet one-way delay: 53.986 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.00 Mbit/s
95th percentile per-packet one-way delay: 54.001 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 3.98 Mbit/s
95th percentile per-packet one-way delay: 53.887 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 5.35 Mbit/s
95th percentile per-packet one-way delay: 54.086 ms
Loss rate: 0.00%
```

Run 6: Report of Sprout — Data Link



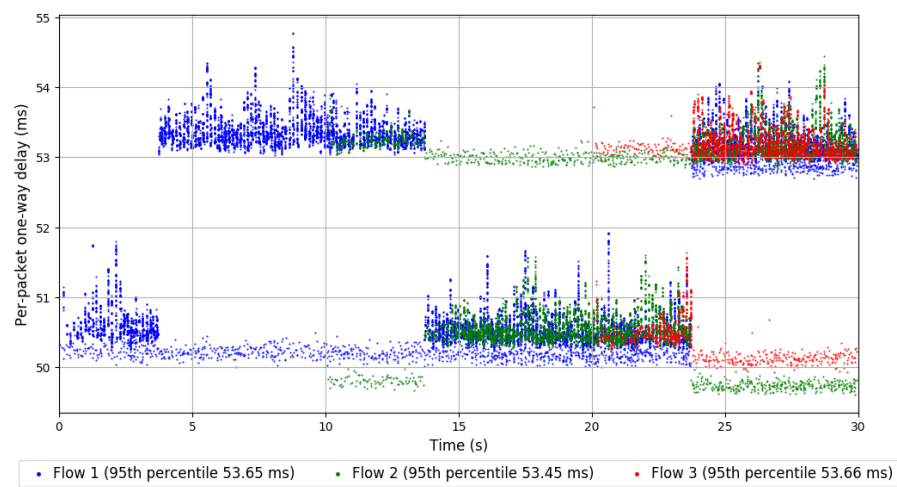
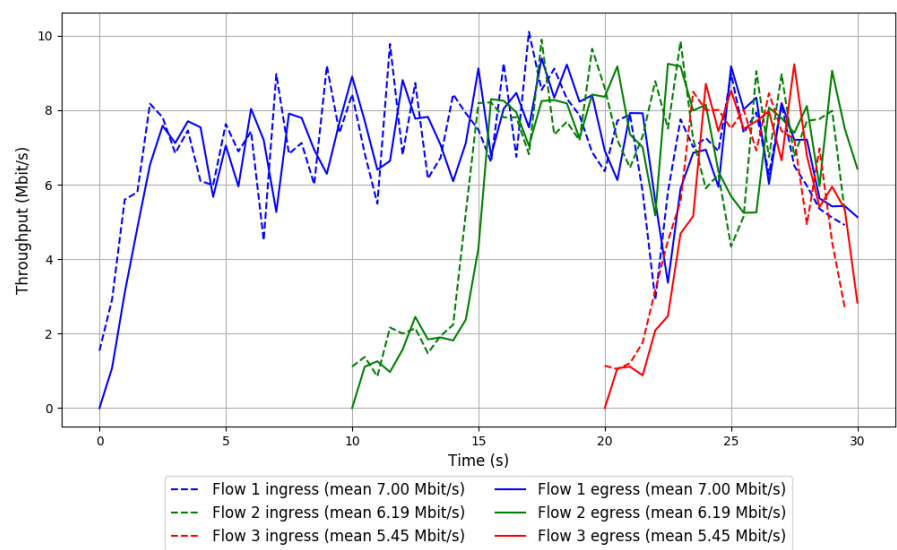
Run 7: Statistics of Sprout

Start at: 2018-07-20 09:38:03  
End at: 2018-07-20 09:38:33  
Local clock offset: 0.107 ms  
Remote clock offset: -0.135 ms

# Below is generated by plot.py at 2018-07-20 13:49:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 12.91 Mbit/s  
95th percentile per-packet one-way delay: 53.609 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 7.00 Mbit/s  
95th percentile per-packet one-way delay: 53.654 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 6.19 Mbit/s  
95th percentile per-packet one-way delay: 53.454 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 5.45 Mbit/s  
95th percentile per-packet one-way delay: 53.664 ms  
Loss rate: 0.00%



Run 7: Report of Sprout — Data Link

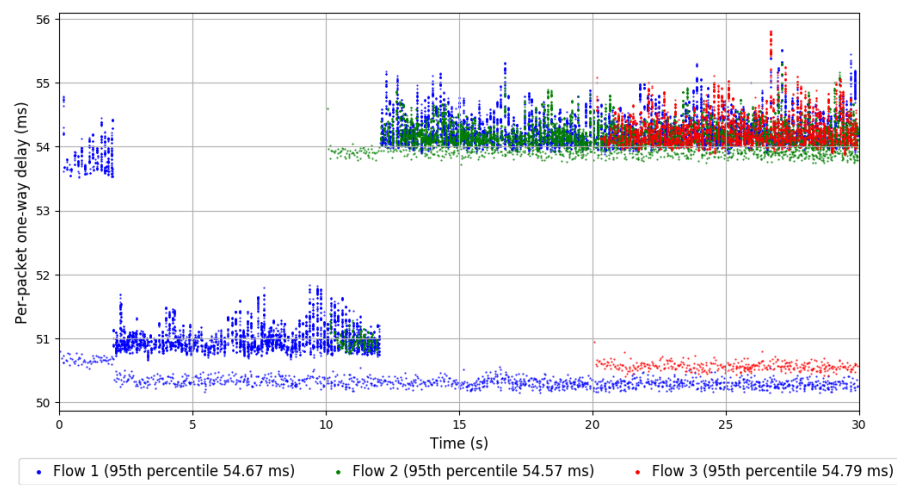
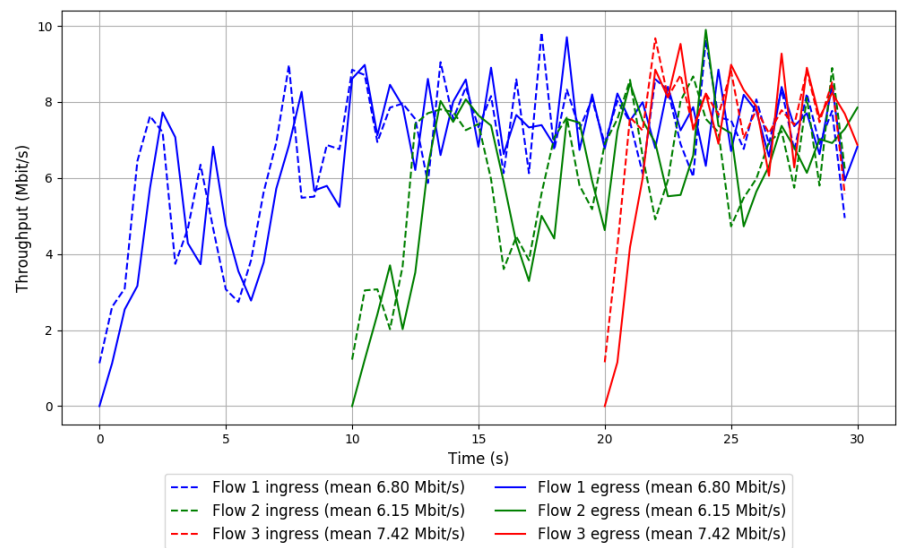


Run 8: Statistics of Sprout

Start at: 2018-07-20 10:02:45  
End at: 2018-07-20 10:03:15  
Local clock offset: -0.257 ms  
Remote clock offset: 0.058 ms

```
# Below is generated by plot.py at 2018-07-20 13:49:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 13.33 Mbit/s
95th percentile per-packet one-way delay: 54.661 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 6.80 Mbit/s
95th percentile per-packet one-way delay: 54.666 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 6.15 Mbit/s
95th percentile per-packet one-way delay: 54.568 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 7.42 Mbit/s
95th percentile per-packet one-way delay: 54.794 ms
Loss rate: 0.00%
```

Run 8: Report of Sprout — Data Link

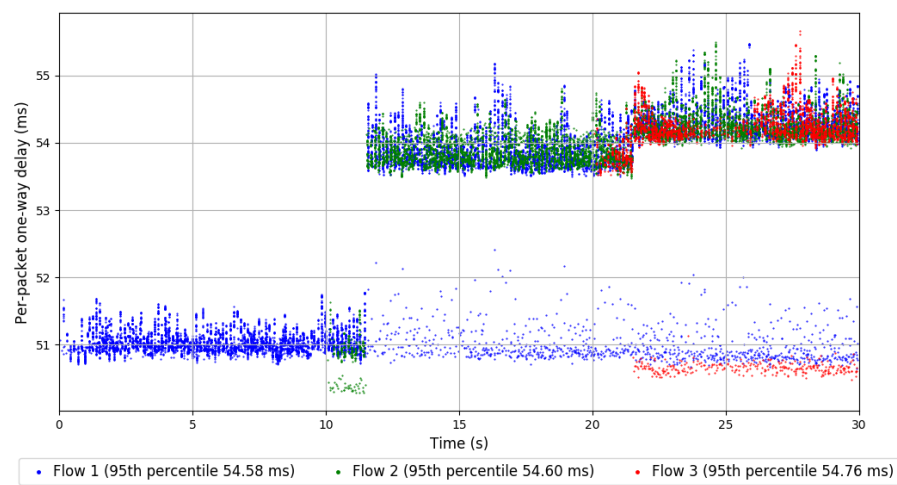
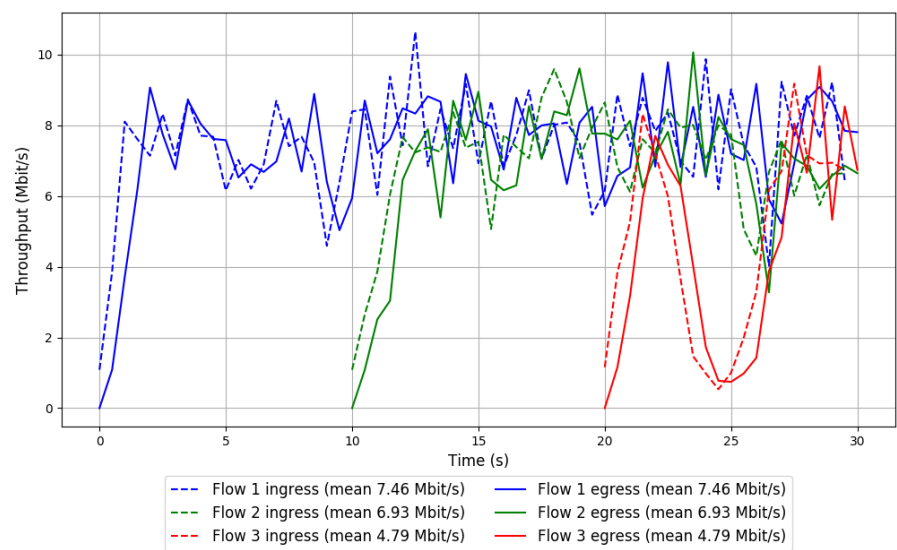


Run 9: Statistics of Sprout

Start at: 2018-07-20 10:27:45  
End at: 2018-07-20 10:28:15  
Local clock offset: -0.339 ms  
Remote clock offset: -0.002 ms

# Below is generated by plot.py at 2018-07-20 13:49:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 13.64 Mbit/s  
95th percentile per-packet one-way delay: 54.610 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 7.46 Mbit/s  
95th percentile per-packet one-way delay: 54.579 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 6.93 Mbit/s  
95th percentile per-packet one-way delay: 54.601 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 4.79 Mbit/s  
95th percentile per-packet one-way delay: 54.756 ms  
Loss rate: 0.00%

Run 9: Report of Sprout — Data Link

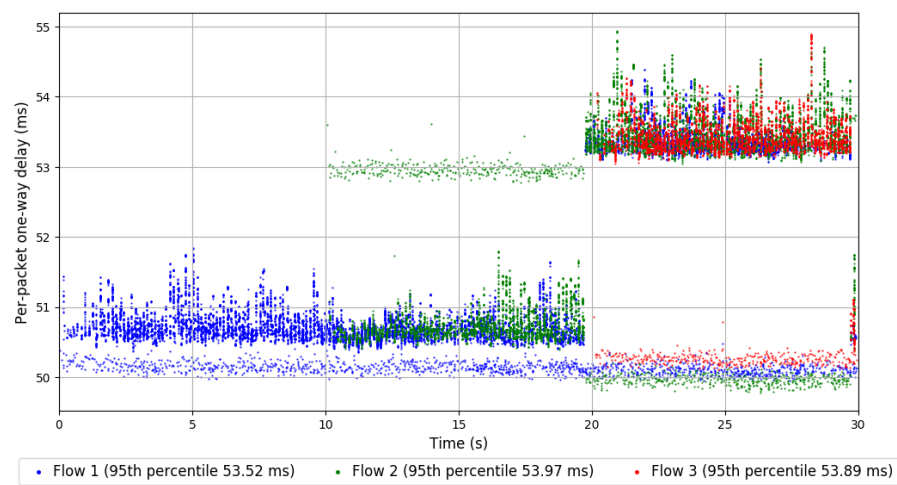
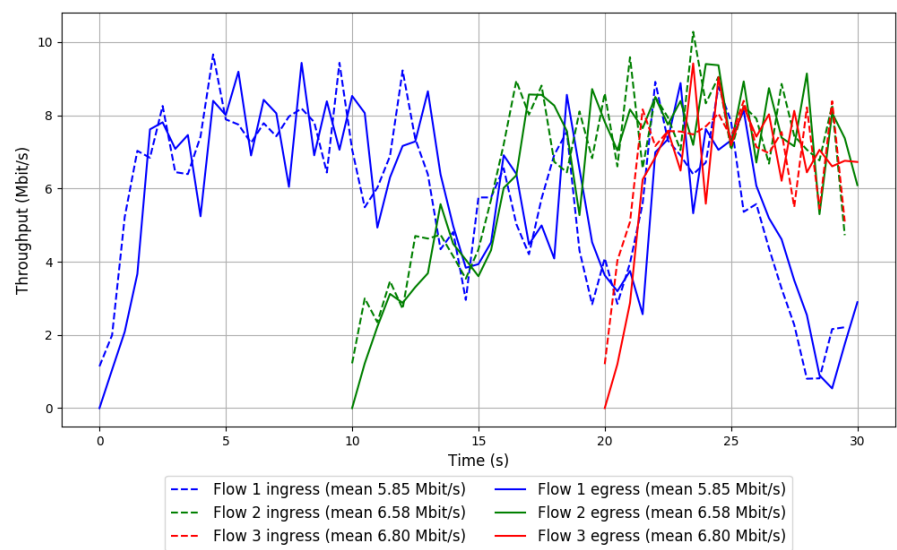


Run 10: Statistics of Sprout

Start at: 2018-07-20 10:52:37  
End at: 2018-07-20 10:53:07  
Local clock offset: -0.052 ms  
Remote clock offset: -0.205 ms

# Below is generated by plot.py at 2018-07-20 13:49:50  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 12.46 Mbit/s  
95th percentile per-packet one-way delay: 53.827 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 5.85 Mbit/s  
95th percentile per-packet one-way delay: 53.520 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 6.58 Mbit/s  
95th percentile per-packet one-way delay: 53.971 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 6.80 Mbit/s  
95th percentile per-packet one-way delay: 53.888 ms  
Loss rate: 0.00%

Run 10: Report of Sprout — Data Link



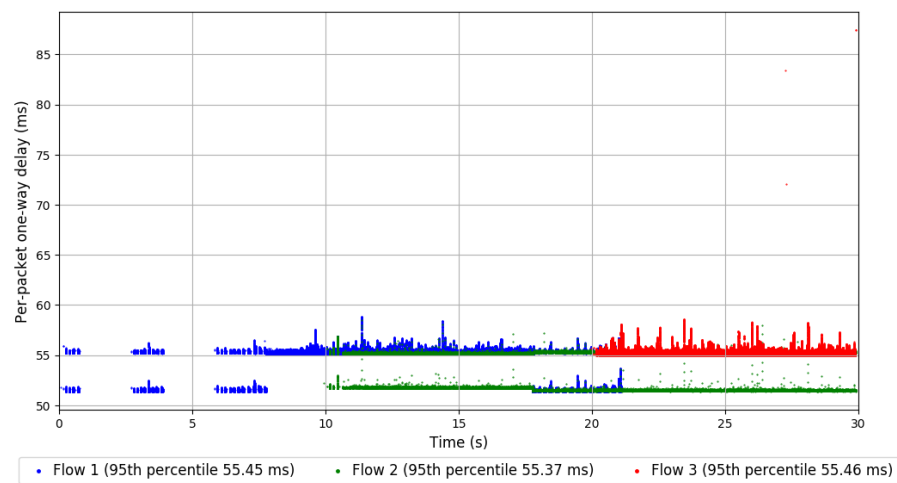
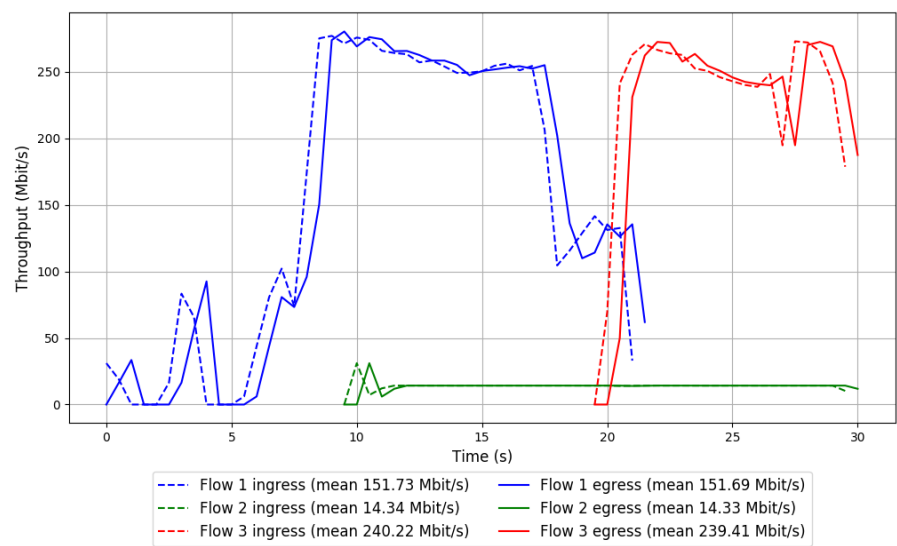
```
Run 1: Statistics of TaoVA-100x

Start at: 2018-07-20 07:06:19
End at: 2018-07-20 07:06:49
Local clock offset: -0.303 ms
Remote clock offset: 1.366 ms

# Below is generated by plot.py at 2018-07-20 13:53:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 196.35 Mbit/s
95th percentile per-packet one-way delay: 55.451 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 151.69 Mbit/s
95th percentile per-packet one-way delay: 55.453 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 14.33 Mbit/s
95th percentile per-packet one-way delay: 55.372 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 239.41 Mbit/s
95th percentile per-packet one-way delay: 55.458 ms
Loss rate: 0.33%
```



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

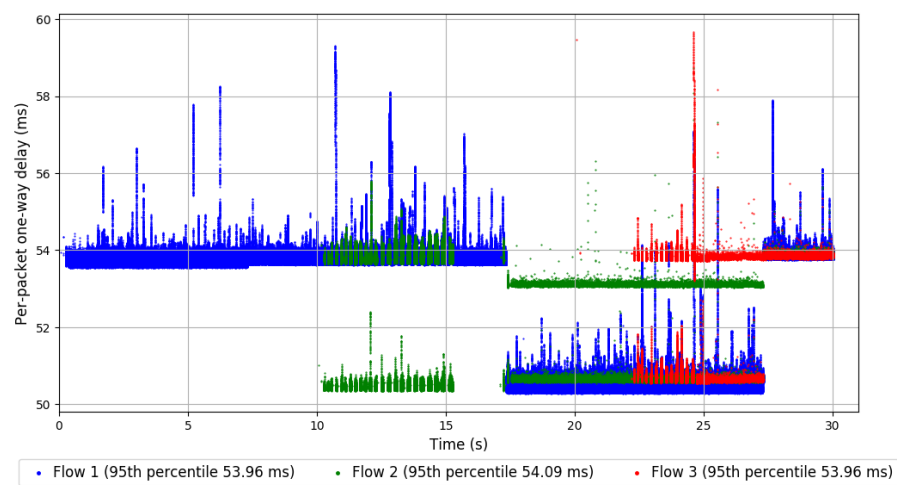
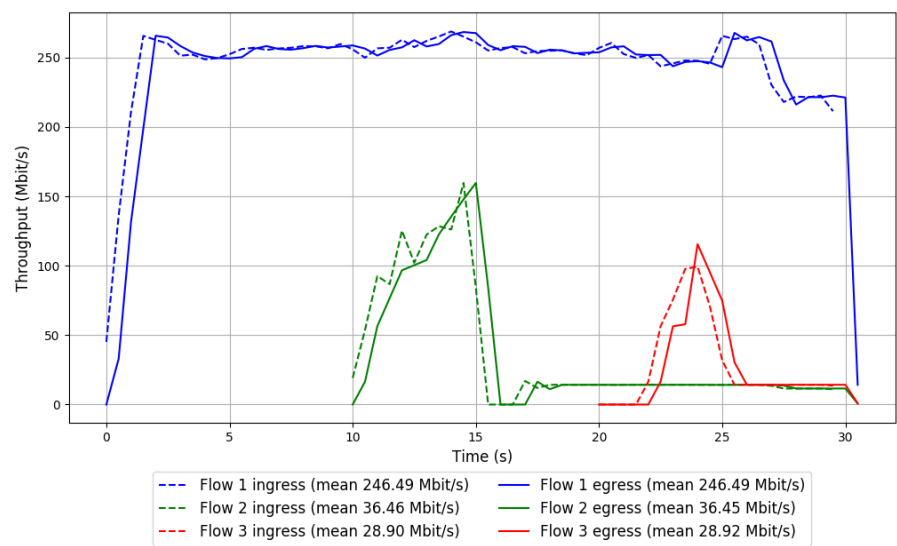


```
Run 2: Statistics of TaoVA-100x

Start at: 2018-07-20 07:31:09
End at: 2018-07-20 07:31:39
Local clock offset: -0.238 ms
Remote clock offset: 0.021 ms

# Below is generated by plot.py at 2018-07-20 13:56:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 280.37 Mbit/s
95th percentile per-packet one-way delay: 53.975 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 246.49 Mbit/s
95th percentile per-packet one-way delay: 53.963 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 36.45 Mbit/s
95th percentile per-packet one-way delay: 54.093 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 28.92 Mbit/s
95th percentile per-packet one-way delay: 53.959 ms
Loss rate: 0.01%
```

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-07-20 07:56:27

End at: 2018-07-20 07:56:57

Local clock offset: -0.019 ms

Remote clock offset: 0.076 ms

# Below is generated by plot.py at 2018-07-20 13:56:40

# Datalink statistics

-- Total of 3 flows:

Average throughput: 182.54 Mbit/s

95th percentile per-packet one-way delay: 53.841 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 13.37 Mbit/s

95th percentile per-packet one-way delay: 53.734 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 247.10 Mbit/s

95th percentile per-packet one-way delay: 53.847 ms

Loss rate: 0.00%

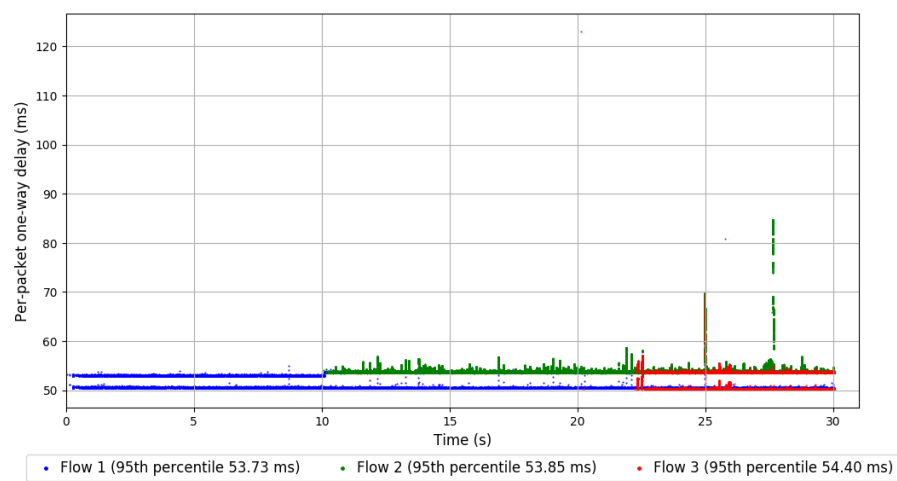
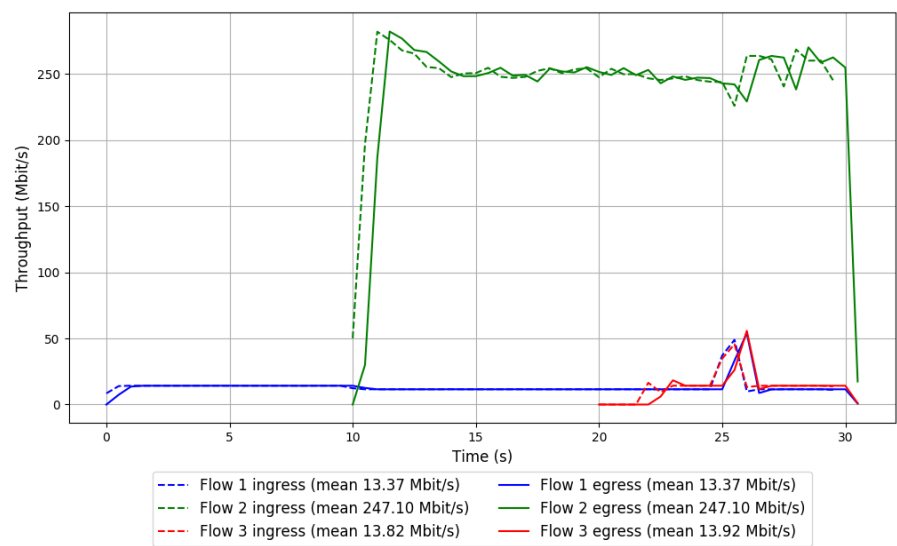
-- Flow 3:

Average throughput: 13.92 Mbit/s

95th percentile per-packet one-way delay: 54.397 ms

Loss rate: 0.02%

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

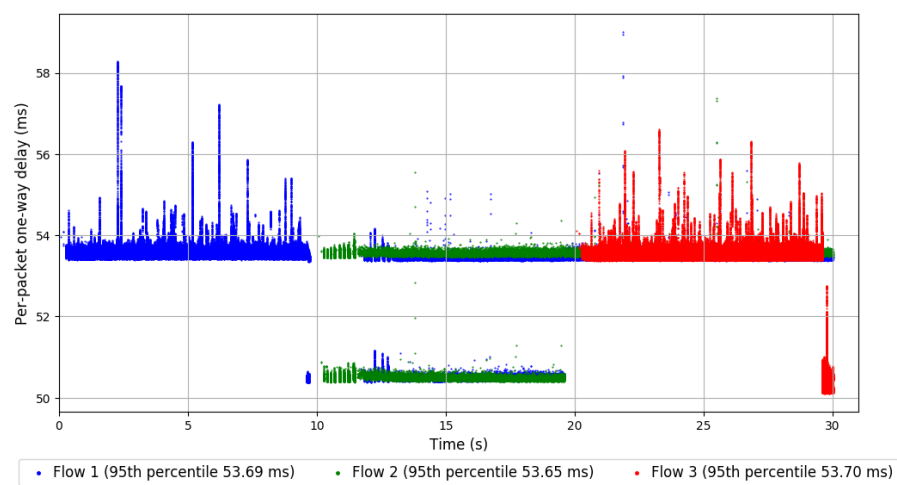
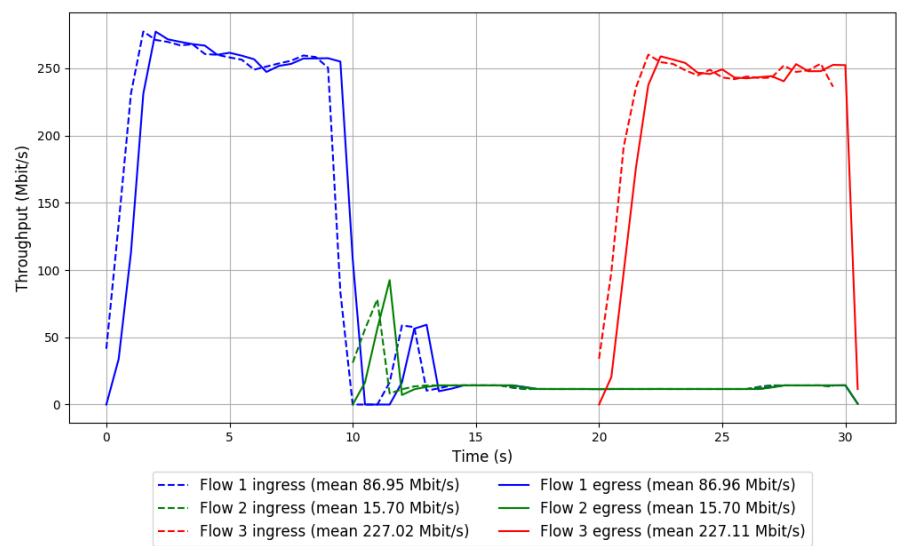


Run 4: Statistics of TaoVA-100x

Start at: 2018-07-20 08:21:17  
End at: 2018-07-20 08:21:47  
Local clock offset: -0.157 ms  
Remote clock offset: -0.209 ms

# Below is generated by plot.py at 2018-07-20 13:56:40  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 172.87 Mbit/s  
95th percentile per-packet one-way delay: 53.689 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 86.96 Mbit/s  
95th percentile per-packet one-way delay: 53.686 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 15.70 Mbit/s  
95th percentile per-packet one-way delay: 53.653 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 227.11 Mbit/s  
95th percentile per-packet one-way delay: 53.700 ms  
Loss rate: 0.00%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-07-20 08:46:18

End at: 2018-07-20 08:46:48

Local clock offset: 0.02 ms

Remote clock offset: -0.04 ms

# Below is generated by plot.py at 2018-07-20 13:56:40

# Datalink statistics

-- Total of 3 flows:

Average throughput: 131.43 Mbit/s

95th percentile per-packet one-way delay: 53.778 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 24.76 Mbit/s

95th percentile per-packet one-way delay: 53.614 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 232.14 Mbit/s

95th percentile per-packet one-way delay: 53.743 ms

Loss rate: 0.00%

-- Flow 3:

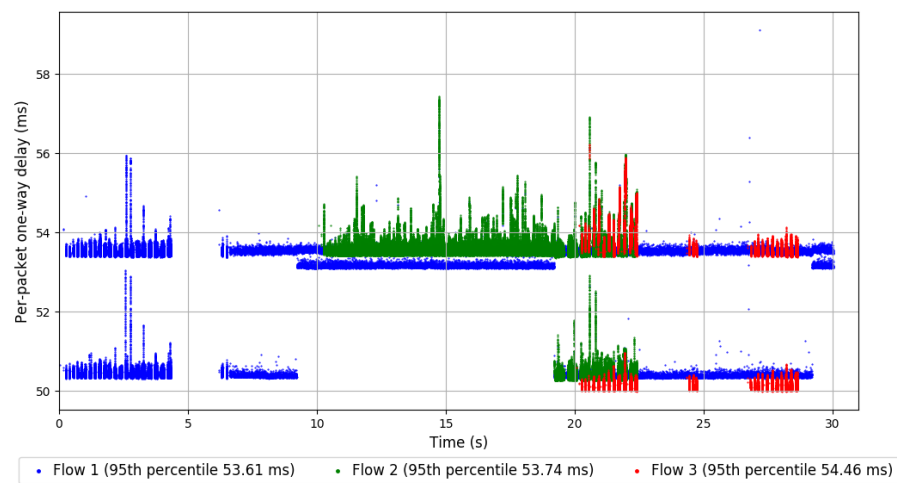
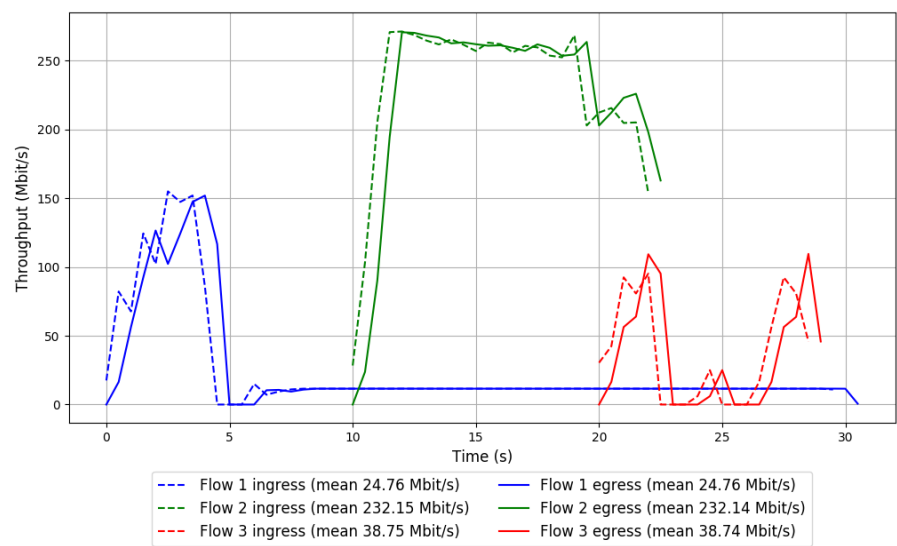
Average throughput: 38.74 Mbit/s

95th percentile per-packet one-way delay: 54.459 ms

Loss rate: 0.00%



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

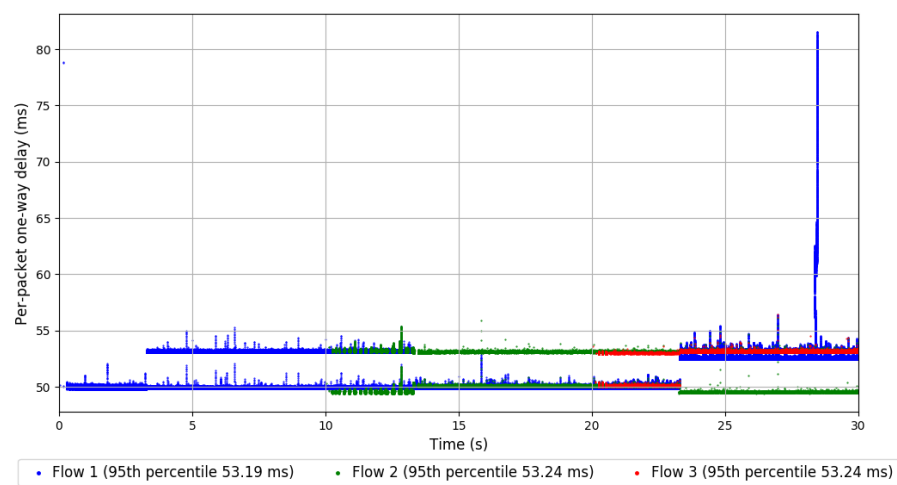
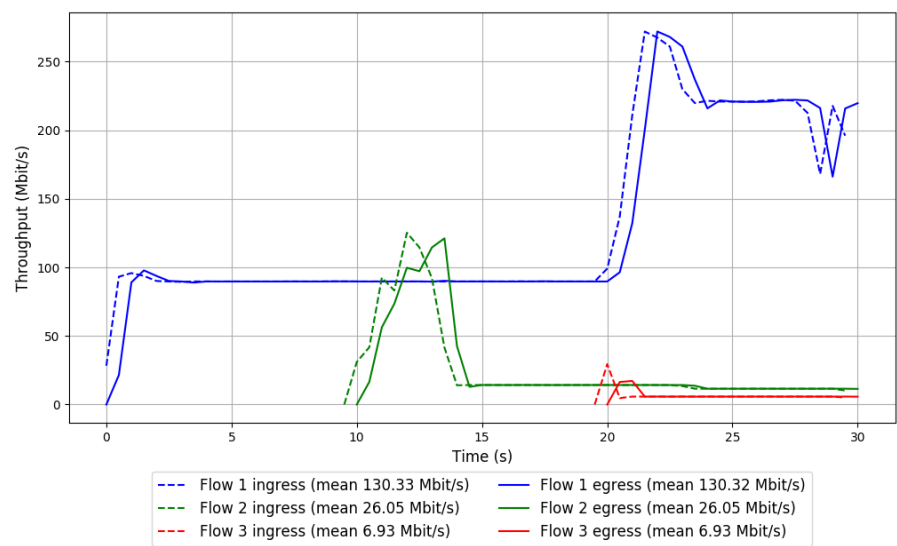


Run 6: Statistics of TaoVA-100x

Start at: 2018-07-20 09:11:13  
End at: 2018-07-20 09:11:43  
Local clock offset: 0.082 ms  
Remote clock offset: -0.297 ms

# Below is generated by plot.py at 2018-07-20 13:56:40  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 149.99 Mbit/s  
95th percentile per-packet one-way delay: 53.201 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 130.32 Mbit/s  
95th percentile per-packet one-way delay: 53.190 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 26.05 Mbit/s  
95th percentile per-packet one-way delay: 53.239 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 6.93 Mbit/s  
95th percentile per-packet one-way delay: 53.236 ms  
Loss rate: 0.00%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-07-20 09:36:20

End at: 2018-07-20 09:36:50

Local clock offset: -0.187 ms

Remote clock offset: 0.103 ms

# Below is generated by plot.py at 2018-07-20 14:01:37

# Datalink statistics

-- Total of 3 flows:

Average throughput: 365.65 Mbit/s

95th percentile per-packet one-way delay: 53.703 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 215.82 Mbit/s

95th percentile per-packet one-way delay: 53.636 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 156.40 Mbit/s

95th percentile per-packet one-way delay: 53.832 ms

Loss rate: 0.00%

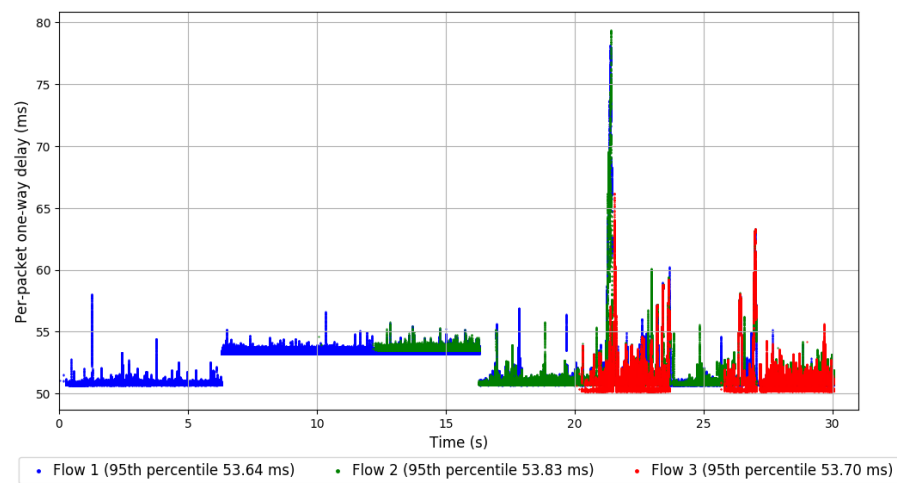
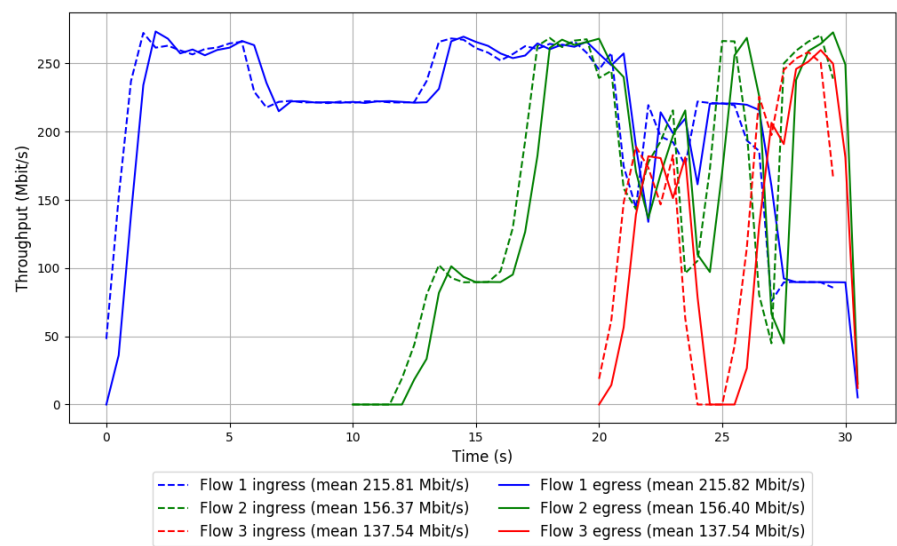
-- Flow 3:

Average throughput: 137.54 Mbit/s

95th percentile per-packet one-way delay: 53.696 ms

Loss rate: 0.00%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-07-20 10:01:23

End at: 2018-07-20 10:01:53

Local clock offset: 0.094 ms

Remote clock offset: 0.136 ms

# Below is generated by plot.py at 2018-07-20 14:01:37

# Datalink statistics

-- Total of 3 flows:

Average throughput: 139.94 Mbit/s

95th percentile per-packet one-way delay: 53.803 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 14.99 Mbit/s

95th percentile per-packet one-way delay: 53.514 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 94.45 Mbit/s

95th percentile per-packet one-way delay: 53.853 ms

Loss rate: 0.00%

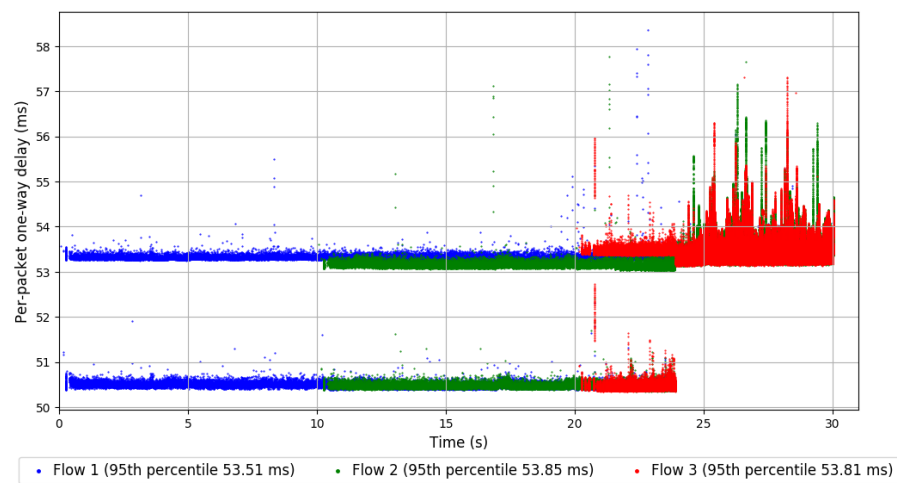
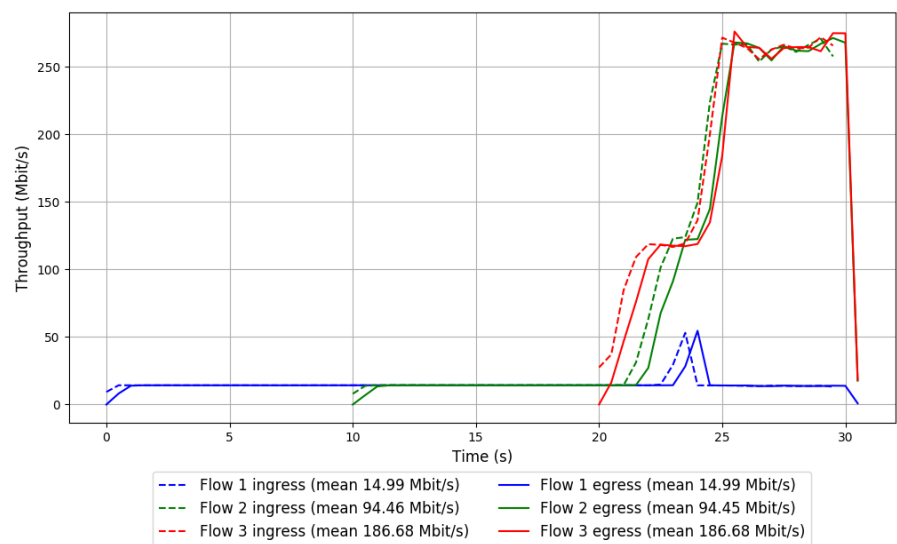
-- Flow 3:

Average throughput: 186.68 Mbit/s

95th percentile per-packet one-way delay: 53.807 ms

Loss rate: 0.00%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-07-20 10:26:24

End at: 2018-07-20 10:26:54

Local clock offset: 0.1 ms

Remote clock offset: 0.02 ms

# Below is generated by plot.py at 2018-07-20 14:01:37

# Datalink statistics

-- Total of 3 flows:

Average throughput: 149.88 Mbit/s

95th percentile per-packet one-way delay: 53.600 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 112.76 Mbit/s

95th percentile per-packet one-way delay: 53.487 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 150.71 Mbit/s

95th percentile per-packet one-way delay: 53.602 ms

Loss rate: 0.05%

-- Flow 3:

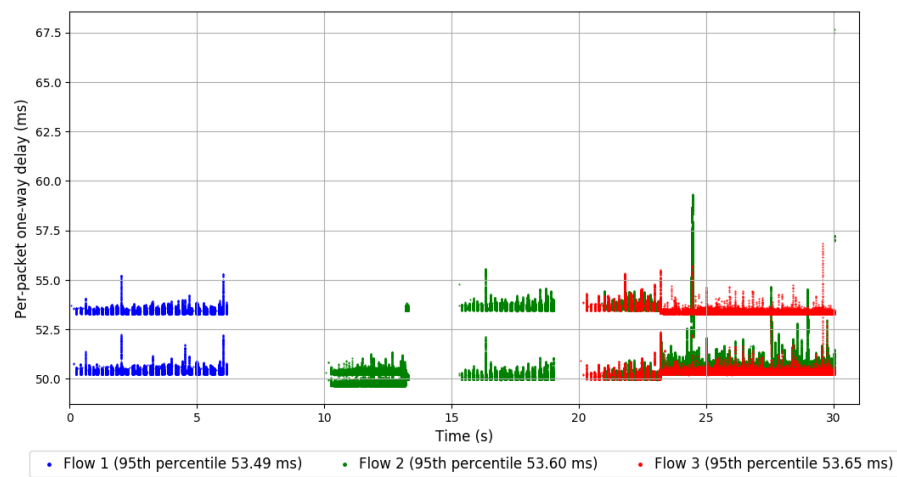
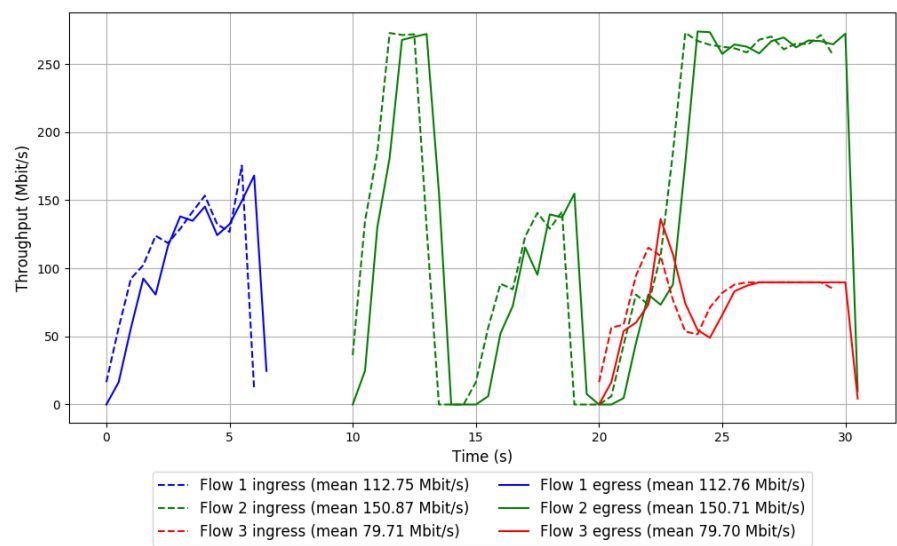
Average throughput: 79.70 Mbit/s

95th percentile per-packet one-way delay: 53.648 ms

Loss rate: 0.00%



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

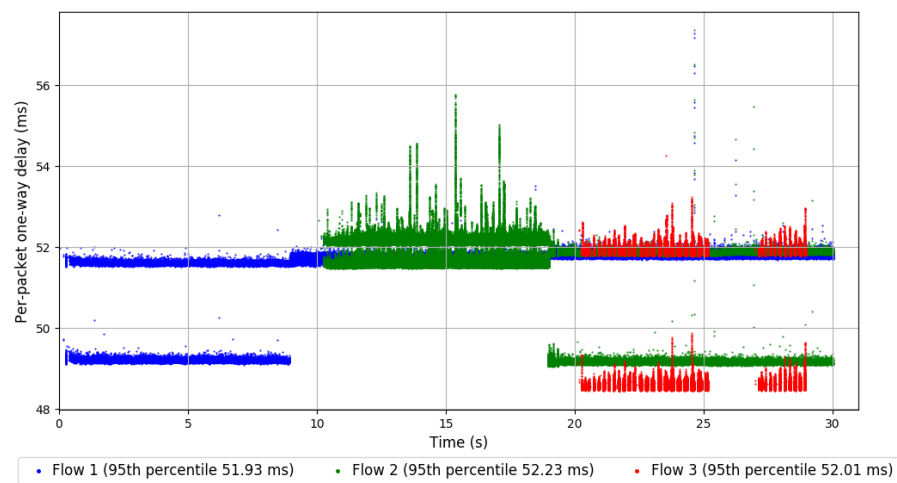
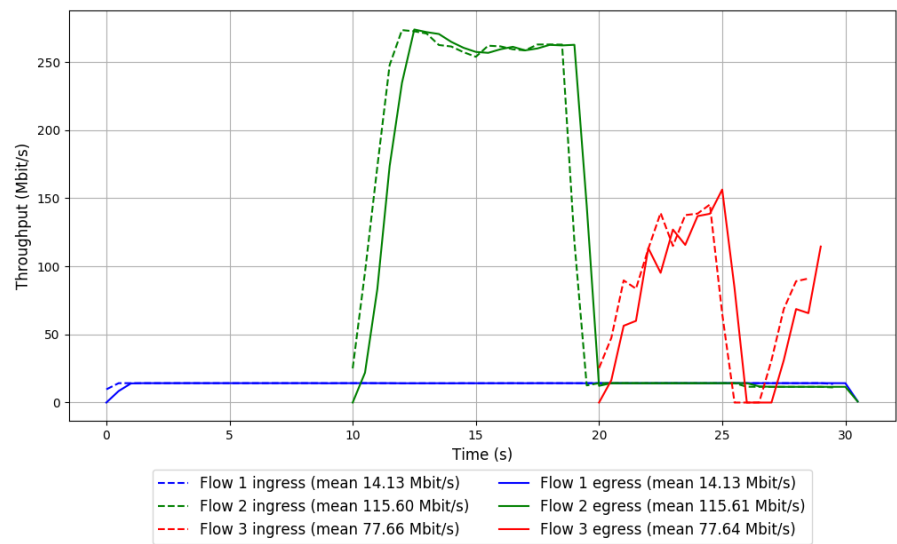


Run 10: Statistics of TaoVA-100x

Start at: 2018-07-20 10:51:18  
End at: 2018-07-20 10:51:48  
Local clock offset: 0.03 ms  
Remote clock offset: -1.381 ms

# Below is generated by plot.py at 2018-07-20 14:01:37  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 114.15 Mbit/s  
95th percentile per-packet one-way delay: 52.208 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 14.13 Mbit/s  
95th percentile per-packet one-way delay: 51.931 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 115.61 Mbit/s  
95th percentile per-packet one-way delay: 52.230 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 77.64 Mbit/s  
95th percentile per-packet one-way delay: 52.008 ms  
Loss rate: 0.00%

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

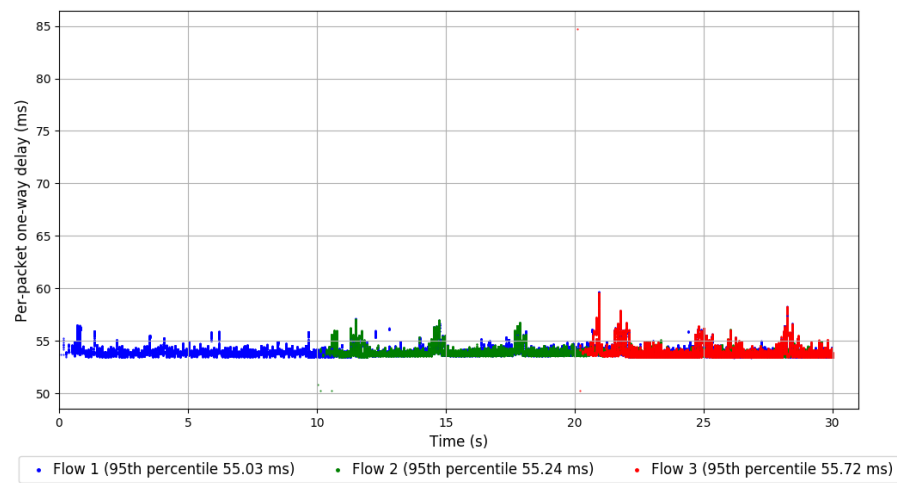
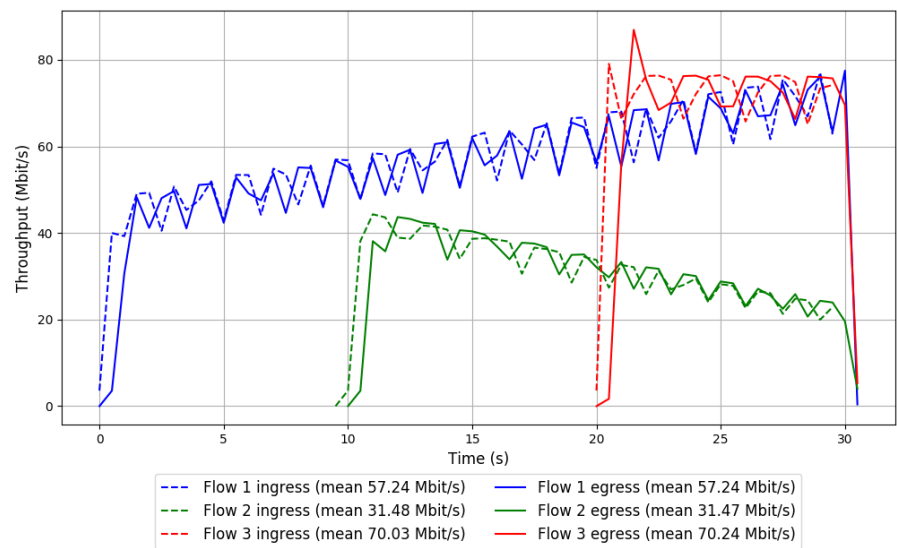


Run 1: Statistics of TCP Vegas

Start at: 2018-07-20 07:08:55  
End at: 2018-07-20 07:09:25  
Local clock offset: -0.17 ms  
Remote clock offset: -0.114 ms

# Below is generated by plot.py at 2018-07-20 14:01:37  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 101.48 Mbit/s  
95th percentile per-packet one-way delay: 55.272 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 57.24 Mbit/s  
95th percentile per-packet one-way delay: 55.034 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 31.47 Mbit/s  
95th percentile per-packet one-way delay: 55.243 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 70.24 Mbit/s  
95th percentile per-packet one-way delay: 55.719 ms  
Loss rate: 0.00%

Run 1: Report of TCP Vegas — Data Link

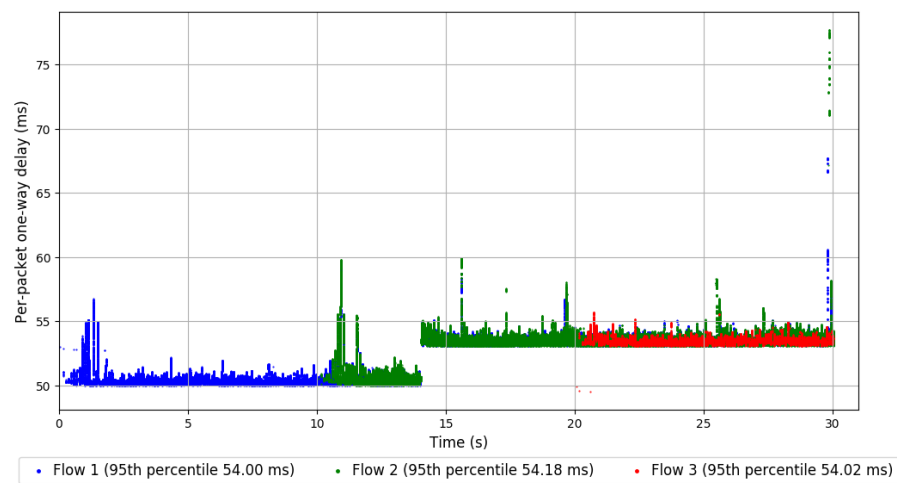
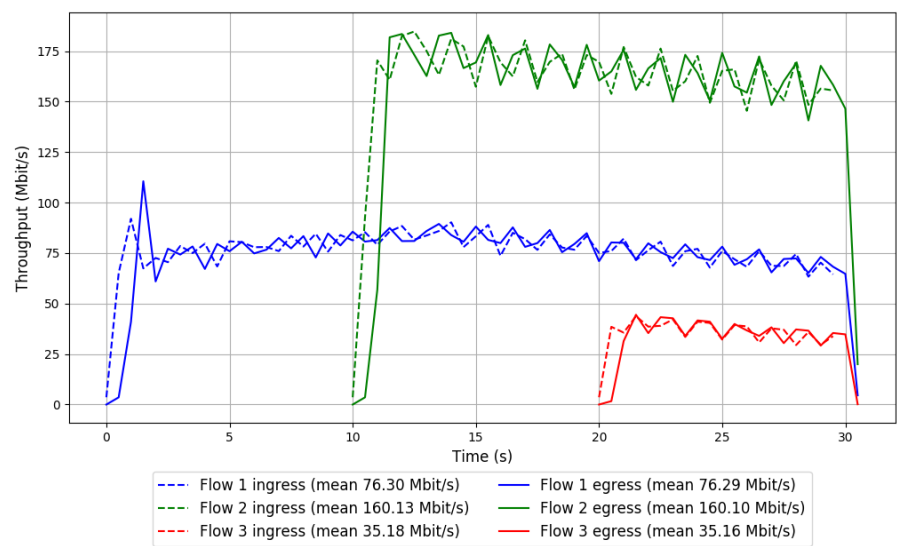


Run 2: Statistics of TCP Vegas

Start at: 2018-07-20 07:33:53  
End at: 2018-07-20 07:34:23  
Local clock offset: -0.104 ms  
Remote clock offset: -0.411 ms

# Below is generated by plot.py at 2018-07-20 14:01:37  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 194.63 Mbit/s  
95th percentile per-packet one-way delay: 54.106 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 76.29 Mbit/s  
95th percentile per-packet one-way delay: 53.996 ms  
Loss rate: 0.02%  
-- Flow 2:  
Average throughput: 160.10 Mbit/s  
95th percentile per-packet one-way delay: 54.183 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 35.16 Mbit/s  
95th percentile per-packet one-way delay: 54.018 ms  
Loss rate: 0.00%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-07-20 07:59:01

End at: 2018-07-20 07:59:31

Local clock offset: -0.1 ms

Remote clock offset: 0.013 ms

# Below is generated by plot.py at 2018-07-20 14:01:37

# Datalink statistics

-- Total of 3 flows:

Average throughput: 147.03 Mbit/s

95th percentile per-packet one-way delay: 54.400 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 69.90 Mbit/s

95th percentile per-packet one-way delay: 54.390 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 81.10 Mbit/s

95th percentile per-packet one-way delay: 54.458 ms

Loss rate: 0.00%

-- Flow 3:

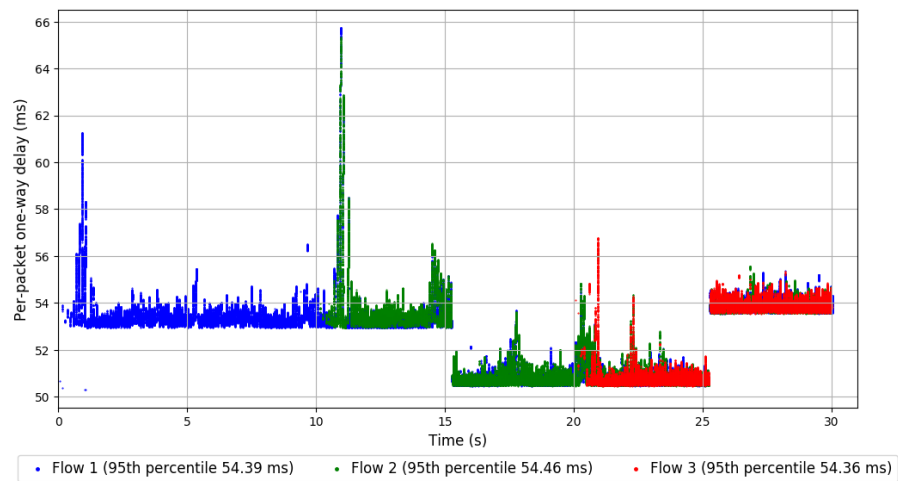
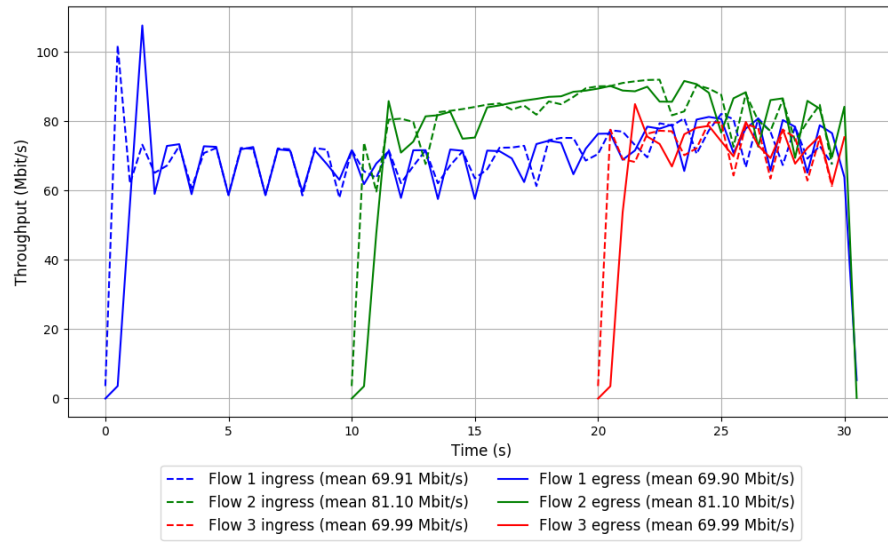
Average throughput: 69.99 Mbit/s

95th percentile per-packet one-way delay: 54.358 ms

Loss rate: 0.00%



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

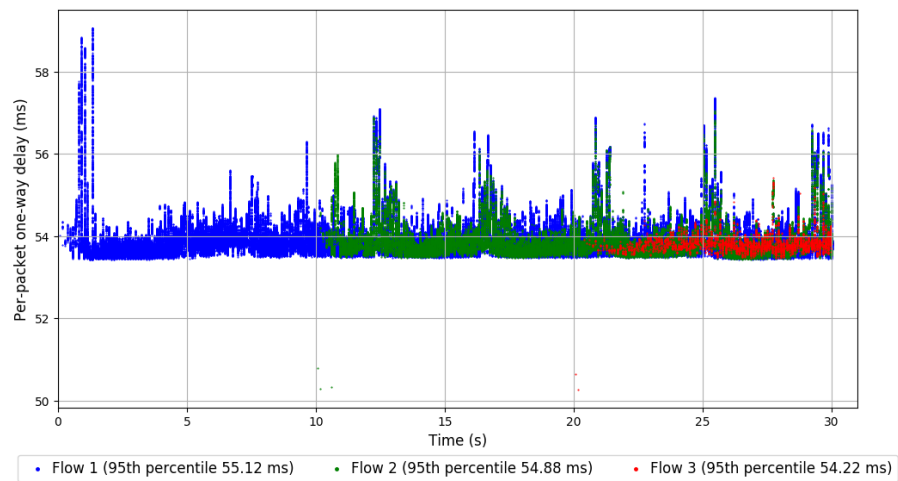
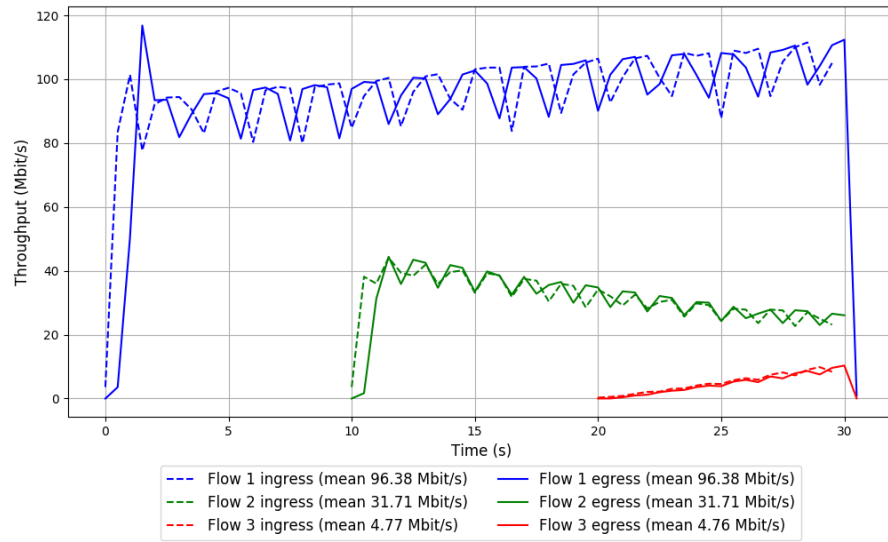


Run 4: Statistics of TCP Vegas

Start at: 2018-07-20 08:23:51  
End at: 2018-07-20 08:24:21  
Local clock offset: -0.091 ms  
Remote clock offset: -0.124 ms

# Below is generated by plot.py at 2018-07-20 14:01:37  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 119.04 Mbit/s  
95th percentile per-packet one-way delay: 55.050 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 96.38 Mbit/s  
95th percentile per-packet one-way delay: 55.121 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 31.71 Mbit/s  
95th percentile per-packet one-way delay: 54.881 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 4.76 Mbit/s  
95th percentile per-packet one-way delay: 54.221 ms  
Loss rate: 0.25%

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



Run 5: Statistics of TCP Vegas

Start at: 2018-07-20 08:48:47

End at: 2018-07-20 08:49:17

Local clock offset: -0.132 ms

Remote clock offset: -0.19 ms

# Below is generated by plot.py at 2018-07-20 14:01:37

# Datalink statistics

-- Total of 3 flows:

Average throughput: 97.91 Mbit/s

95th percentile per-packet one-way delay: 53.880 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 61.37 Mbit/s

95th percentile per-packet one-way delay: 53.997 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 12.11 Mbit/s

95th percentile per-packet one-way delay: 51.493 ms

Loss rate: 0.00%

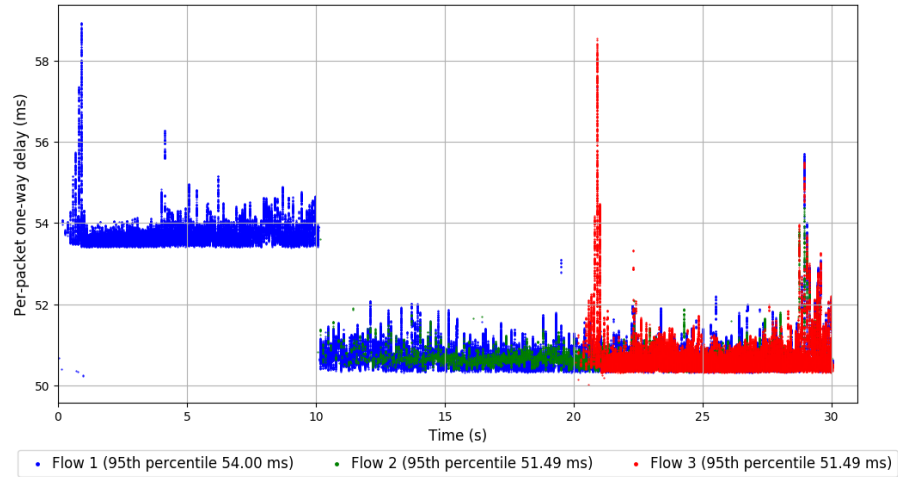
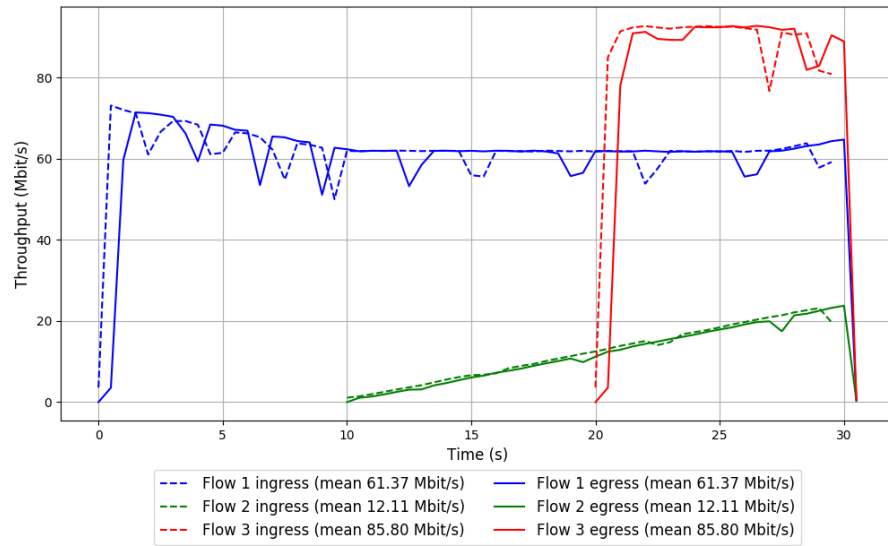
-- Flow 3:

Average throughput: 85.80 Mbit/s

95th percentile per-packet one-way delay: 51.487 ms

Loss rate: 0.00%

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



Run 6: Statistics of TCP Vegas

Start at: 2018-07-20 09:13:46

End at: 2018-07-20 09:14:16

Local clock offset: 0.074 ms

Remote clock offset: 0.003 ms

# Below is generated by plot.py at 2018-07-20 14:01:37

# Datalink statistics

-- Total of 3 flows:

Average throughput: 101.67 Mbit/s

95th percentile per-packet one-way delay: 54.453 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 22.15 Mbit/s

95th percentile per-packet one-way delay: 54.319 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 64.20 Mbit/s

95th percentile per-packet one-way delay: 54.231 ms

Loss rate: 0.00%

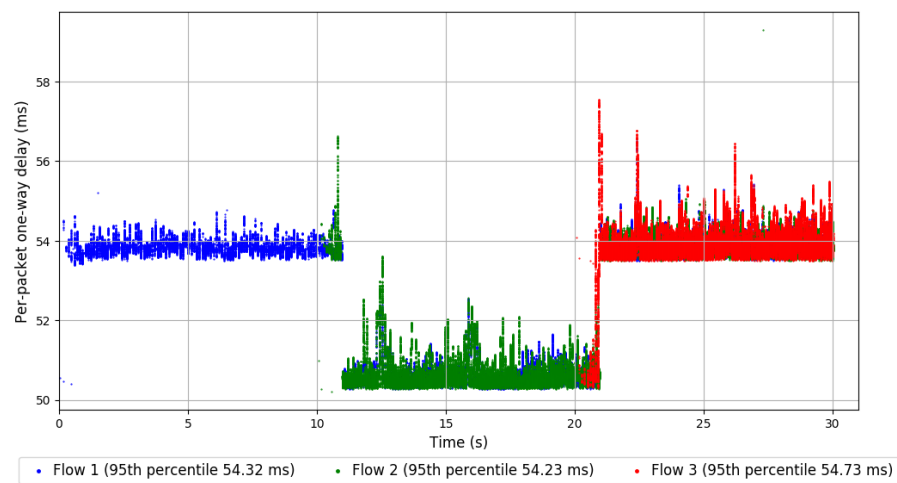
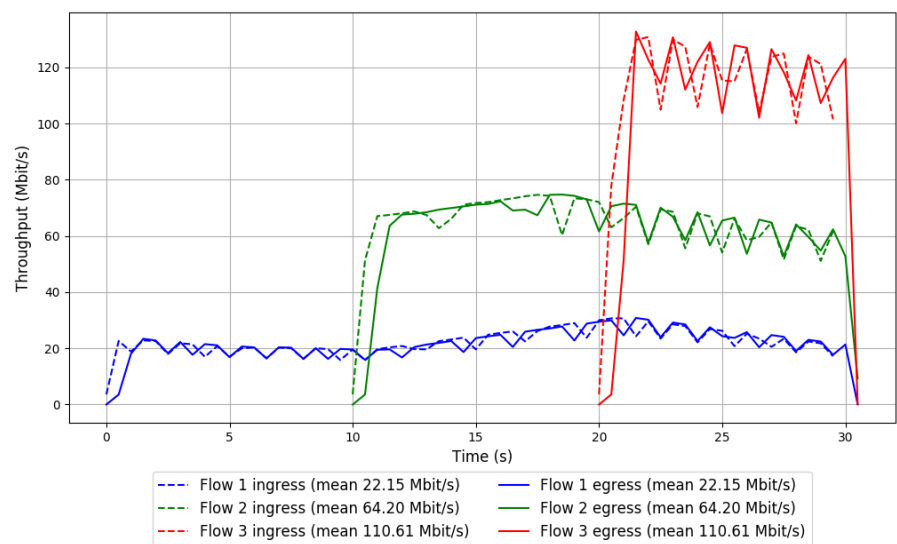
-- Flow 3:

Average throughput: 110.61 Mbit/s

95th percentile per-packet one-way delay: 54.734 ms

Loss rate: 0.00%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-07-20 09:39:12

End at: 2018-07-20 09:39:42

Local clock offset: 0.052 ms

Remote clock offset: 1.413 ms

# Below is generated by plot.py at 2018-07-20 14:01:38

# Datalink statistics

-- Total of 3 flows:

Average throughput: 101.59 Mbit/s

95th percentile per-packet one-way delay: 55.408 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 30.88 Mbit/s

95th percentile per-packet one-way delay: 55.156 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 73.64 Mbit/s

95th percentile per-packet one-way delay: 55.239 ms

Loss rate: 0.00%

-- Flow 3:

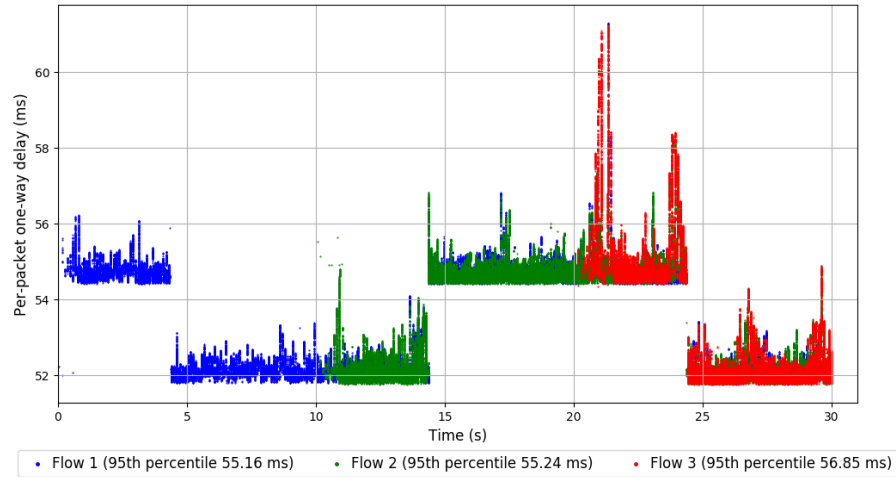
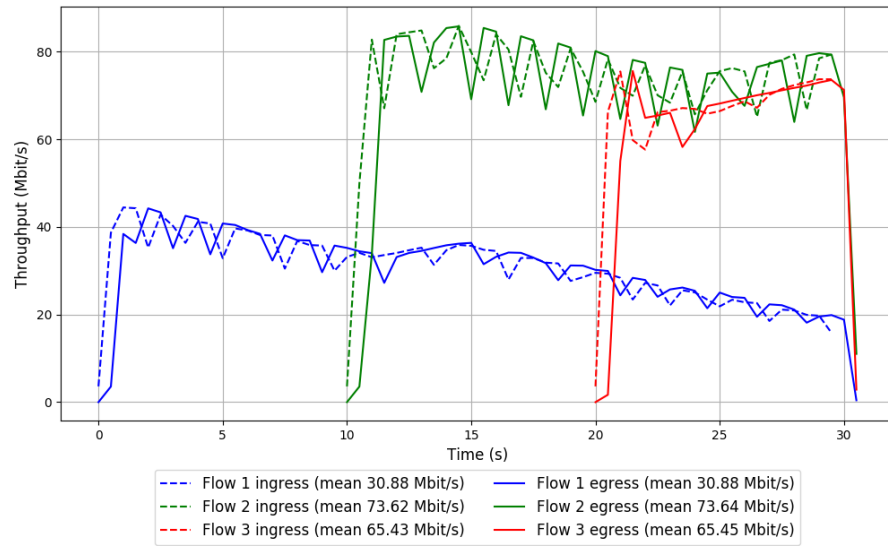
Average throughput: 65.45 Mbit/s

95th percentile per-packet one-way delay: 56.852 ms

Loss rate: 0.00%



# Run 7: Report of TCP Vegas — Data Link

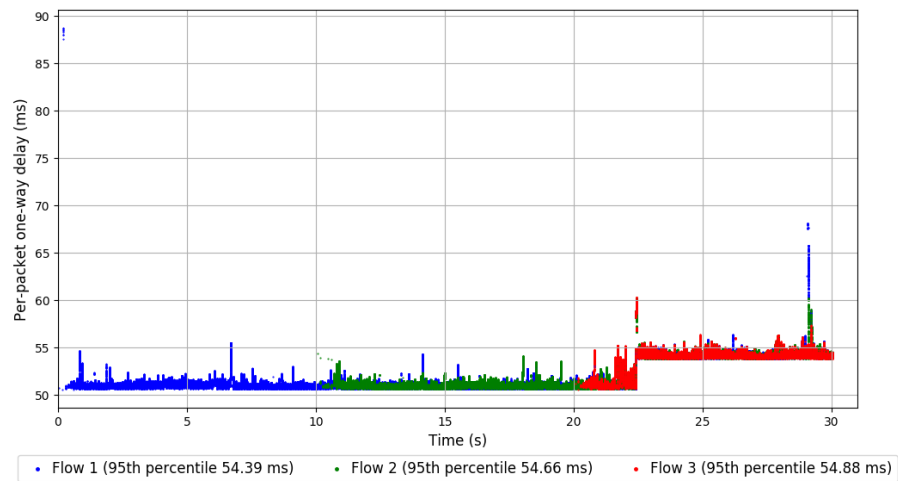
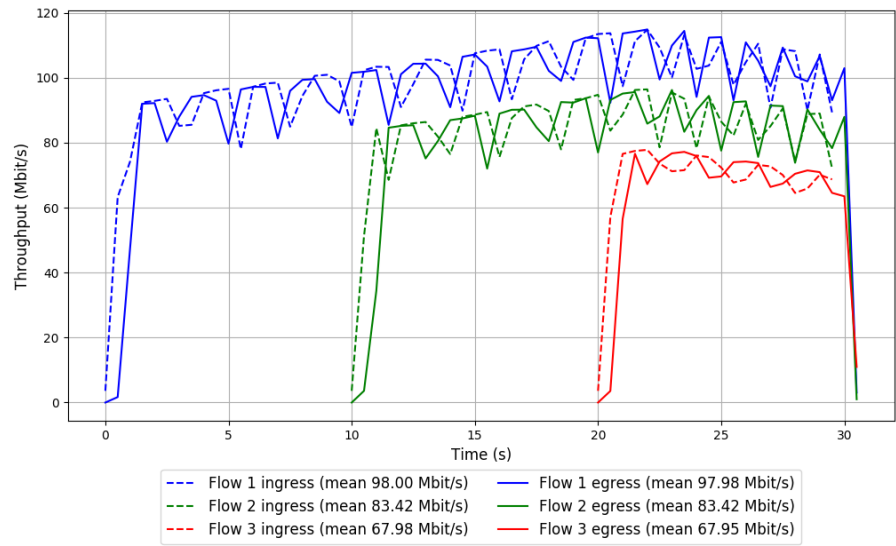


Run 8: Statistics of TCP Vegas

Start at: 2018-07-20 10:03:54  
End at: 2018-07-20 10:04:24  
Local clock offset: -0.213 ms  
Remote clock offset: 0.097 ms

# Below is generated by plot.py at 2018-07-20 14:01:38  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 176.13 Mbit/s  
95th percentile per-packet one-way delay: 54.573 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 97.98 Mbit/s  
95th percentile per-packet one-way delay: 54.393 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 83.42 Mbit/s  
95th percentile per-packet one-way delay: 54.664 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 67.95 Mbit/s  
95th percentile per-packet one-way delay: 54.880 ms  
Loss rate: 0.00%

# Run 8: Report of TCP Vegas — Data Link

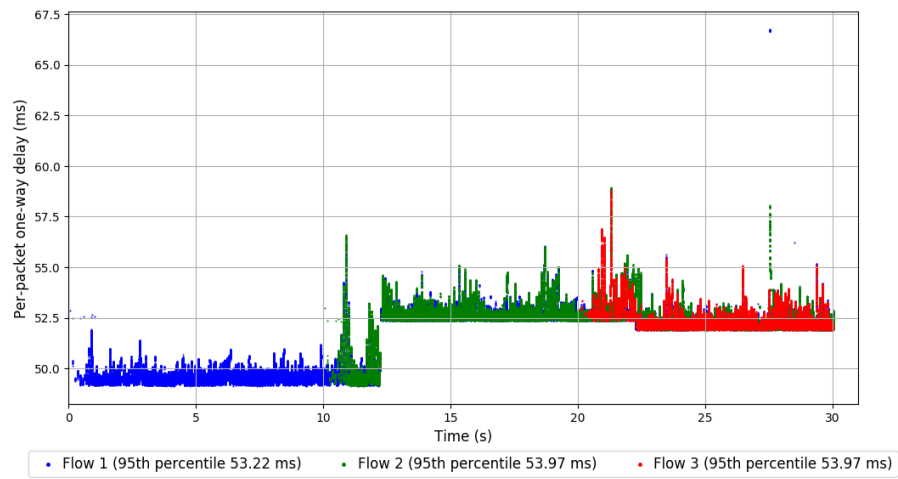
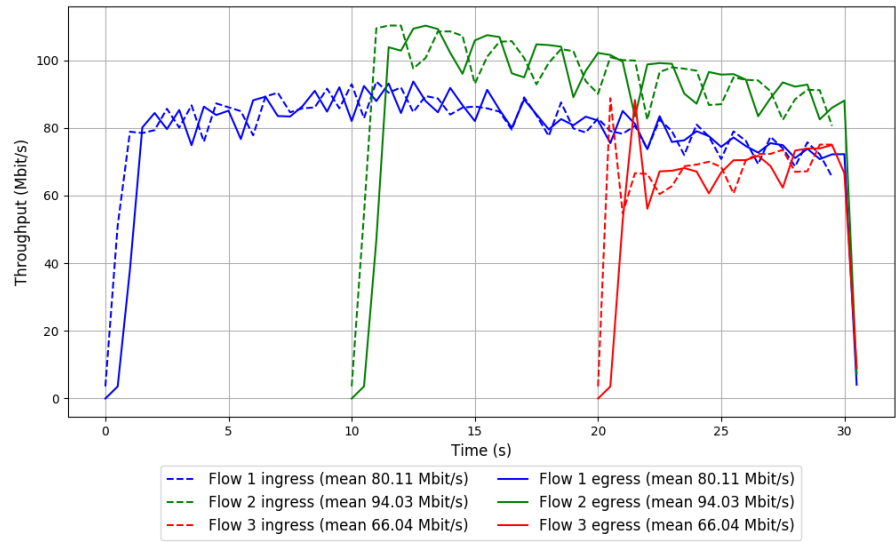


Run 9: Statistics of TCP Vegas

Start at: 2018-07-20 10:28:55  
End at: 2018-07-20 10:29:25  
Local clock offset: -0.128 ms  
Remote clock offset: -1.309 ms

# Below is generated by plot.py at 2018-07-20 14:01:38  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 164.61 Mbit/s  
95th percentile per-packet one-way delay: 53.629 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 80.11 Mbit/s  
95th percentile per-packet one-way delay: 53.222 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 94.03 Mbit/s  
95th percentile per-packet one-way delay: 53.969 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 66.04 Mbit/s  
95th percentile per-packet one-way delay: 53.967 ms  
Loss rate: 0.00%

# Run 9: Report of TCP Vegas — Data Link

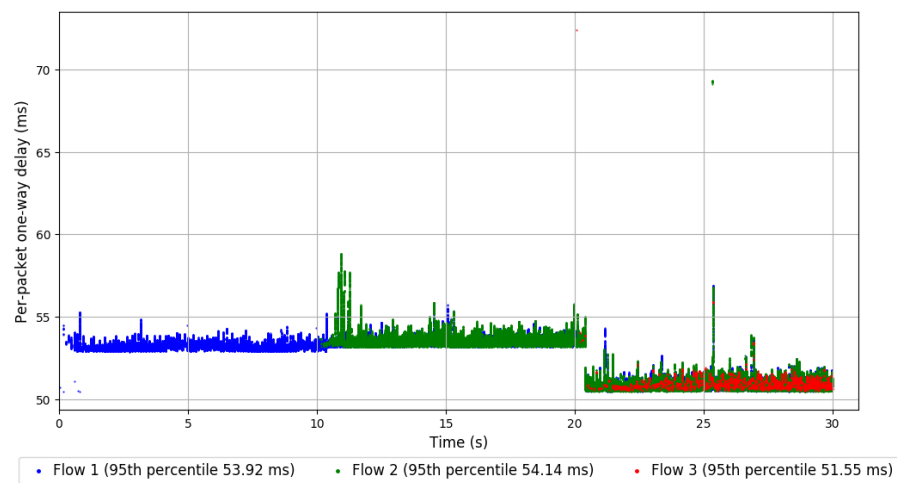
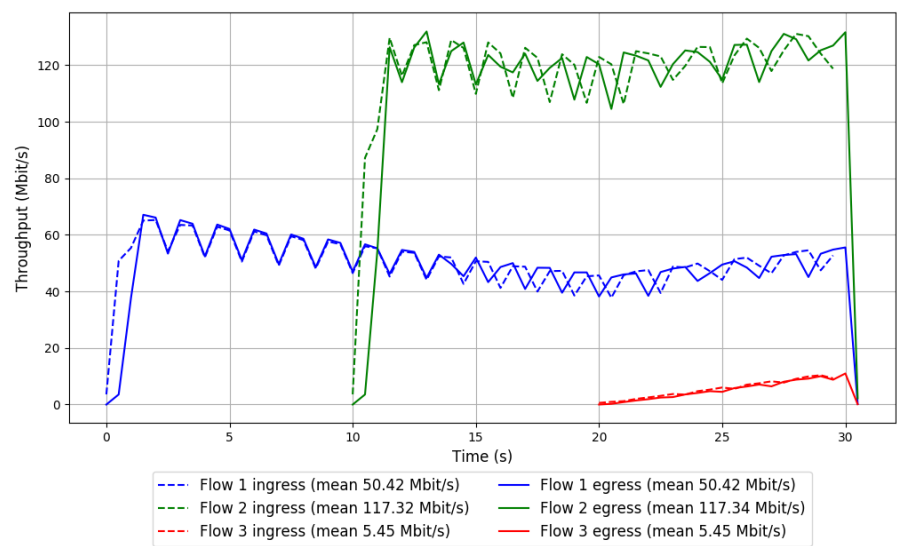


Run 10: Statistics of TCP Vegas

Start at: 2018-07-20 10:53:46  
End at: 2018-07-20 10:54:16  
Local clock offset: -0.031 ms  
Remote clock offset: -0.028 ms

# Below is generated by plot.py at 2018-07-20 14:01:38  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 130.36 Mbit/s  
95th percentile per-packet one-way delay: 54.049 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 50.42 Mbit/s  
95th percentile per-packet one-way delay: 53.924 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 117.34 Mbit/s  
95th percentile per-packet one-way delay: 54.140 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 5.45 Mbit/s  
95th percentile per-packet one-way delay: 51.547 ms  
Loss rate: 0.18%

Run 10: Report of TCP Vegas — Data Link



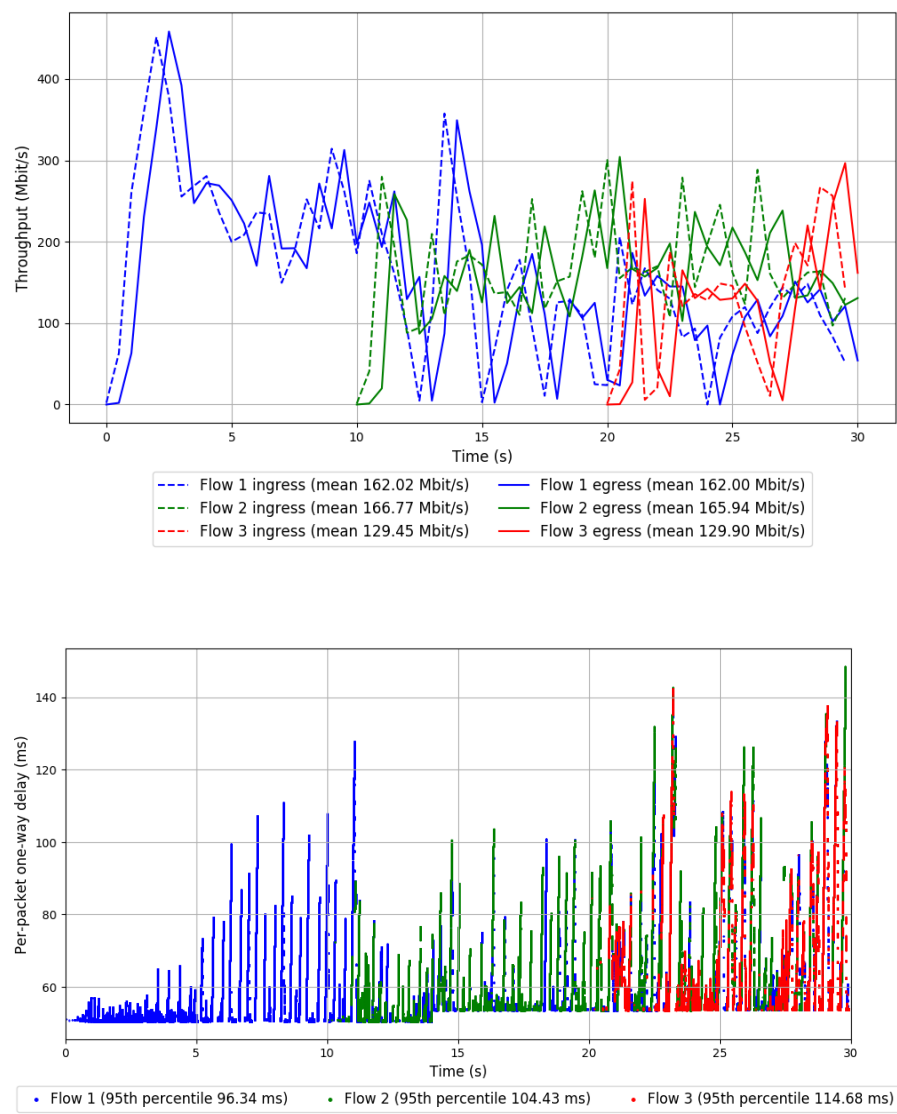
Run 1: Statistics of Verus

Start at: 2018-07-20 07:22:13  
End at: 2018-07-20 07:22:43  
Local clock offset: -0.33 ms  
Remote clock offset: -0.188 ms

# Below is generated by plot.py at 2018-07-20 14:02:57  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 314.42 Mbit/s  
95th percentile per-packet one-way delay: 102.607 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 162.00 Mbit/s  
95th percentile per-packet one-way delay: 96.338 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 165.94 Mbit/s  
95th percentile per-packet one-way delay: 104.432 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 129.90 Mbit/s  
95th percentile per-packet one-way delay: 114.678 ms  
Loss rate: 0.00%



Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-07-20 07:47:19

End at: 2018-07-20 07:47:49

Local clock offset: -0.033 ms

Remote clock offset: 0.13 ms

# Below is generated by plot.py at 2018-07-20 14:03:27

# Datalink statistics

-- Total of 3 flows:

Average throughput: 338.98 Mbit/s

95th percentile per-packet one-way delay: 143.419 ms

Loss rate: 0.86%

-- Flow 1:

Average throughput: 217.61 Mbit/s

95th percentile per-packet one-way delay: 137.171 ms

Loss rate: 0.54%

-- Flow 2:

Average throughput: 143.60 Mbit/s

95th percentile per-packet one-way delay: 141.857 ms

Loss rate: 1.00%

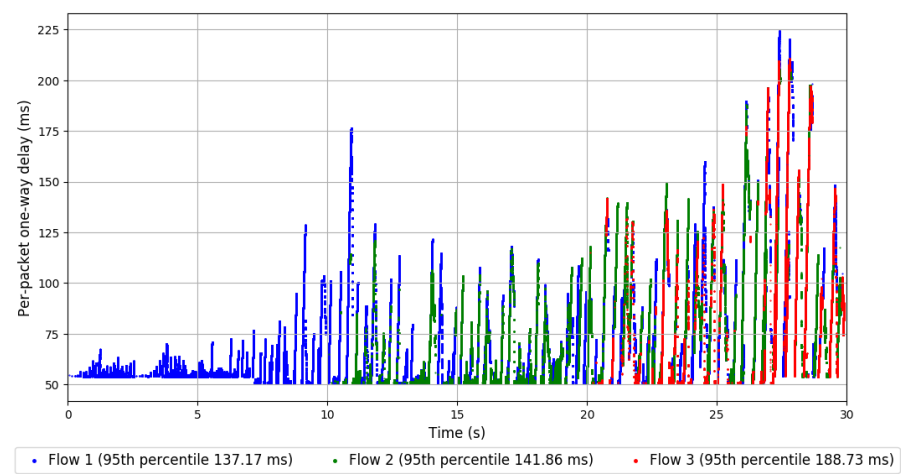
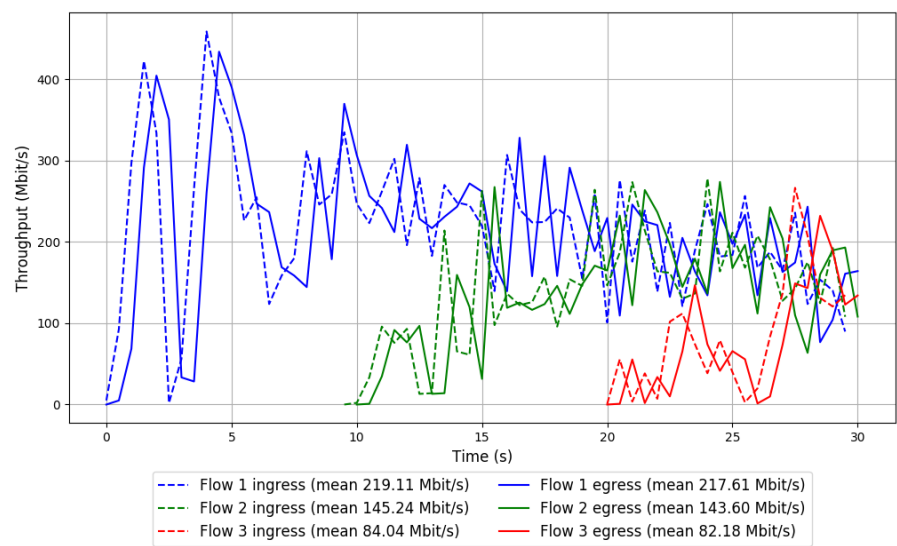
-- Flow 3:

Average throughput: 82.18 Mbit/s

95th percentile per-packet one-way delay: 188.729 ms

Loss rate: 2.87%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-07-20 08:12:09

End at: 2018-07-20 08:12:39

Local clock offset: -0.025 ms

Remote clock offset: -0.13 ms

# Below is generated by plot.py at 2018-07-20 14:04:39

# Datalink statistics

-- Total of 3 flows:

Average throughput: 344.01 Mbit/s

95th percentile per-packet one-way delay: 159.114 ms

Loss rate: 0.27%

-- Flow 1:

Average throughput: 171.70 Mbit/s

95th percentile per-packet one-way delay: 133.455 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 226.08 Mbit/s

95th percentile per-packet one-way delay: 173.100 ms

Loss rate: 0.25%

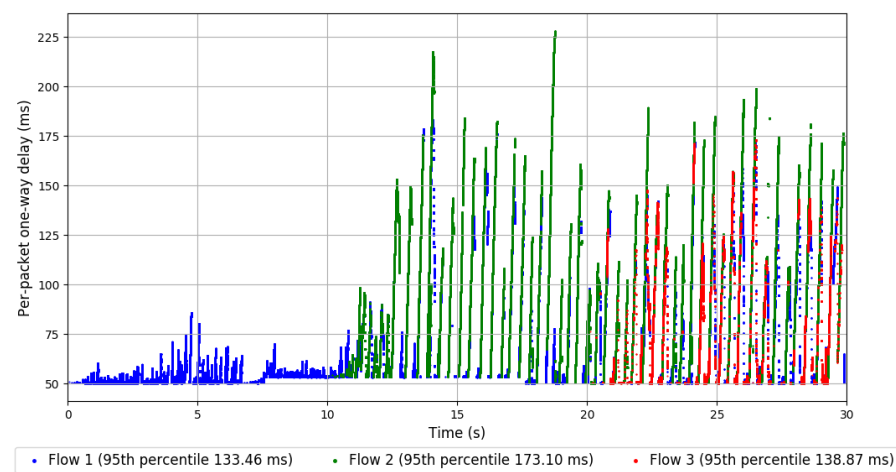
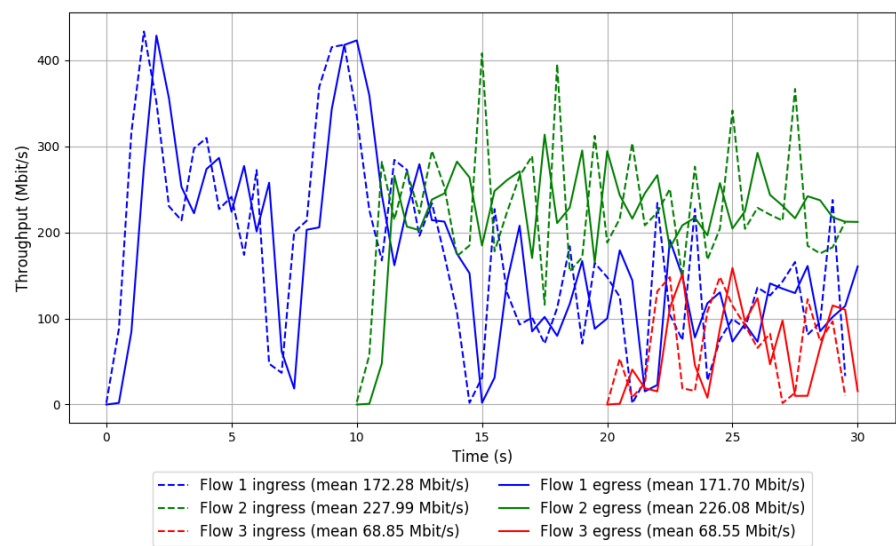
-- Flow 3:

Average throughput: 68.55 Mbit/s

95th percentile per-packet one-way delay: 138.865 ms

Loss rate: 0.01%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-07-20 08:37:19

End at: 2018-07-20 08:37:49

Local clock offset: -0.077 ms

Remote clock offset: 1.341 ms

# Below is generated by plot.py at 2018-07-20 14:04:47

# Datalink statistics

-- Total of 3 flows:

Average throughput: 339.17 Mbit/s

95th percentile per-packet one-way delay: 107.978 ms

Loss rate: 0.30%

-- Flow 1:

Average throughput: 175.25 Mbit/s

95th percentile per-packet one-way delay: 99.723 ms

Loss rate: 0.29%

-- Flow 2:

Average throughput: 175.62 Mbit/s

95th percentile per-packet one-way delay: 109.626 ms

Loss rate: 0.13%

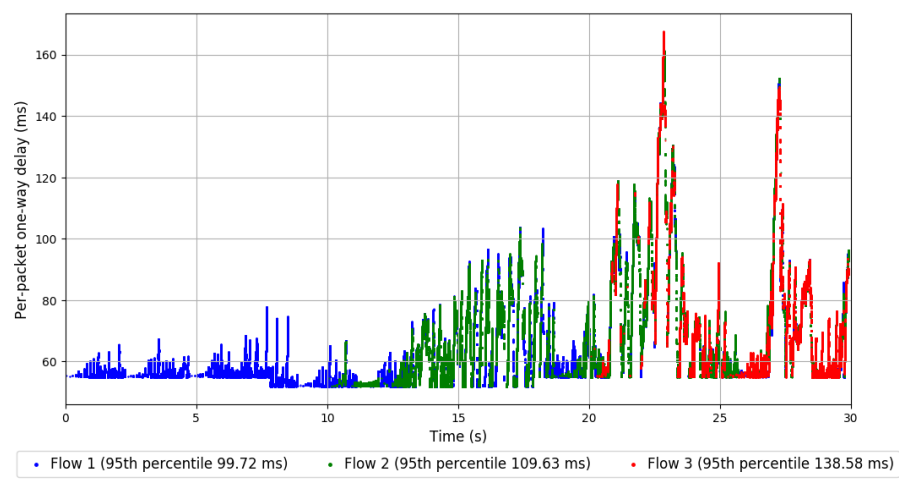
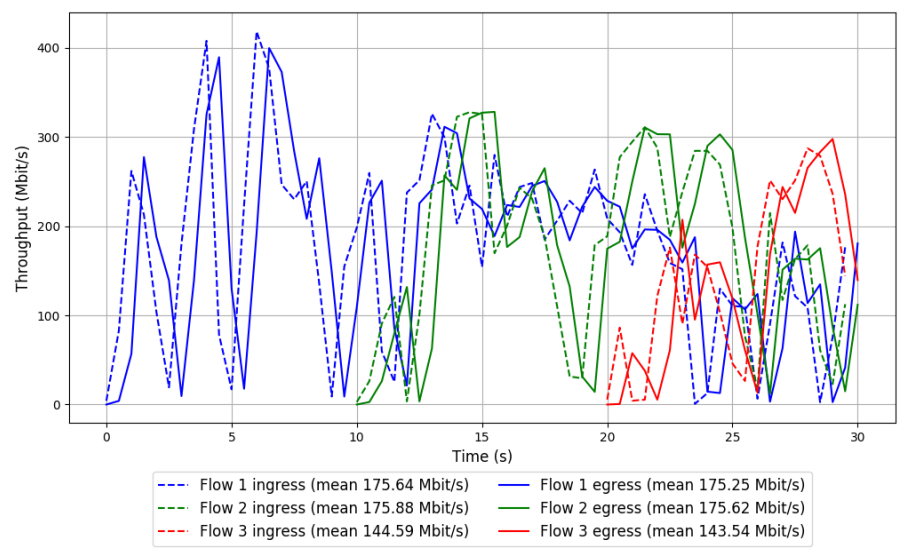
-- Flow 3:

Average throughput: 143.54 Mbit/s

95th percentile per-packet one-way delay: 138.584 ms

Loss rate: 0.75%

Run 4: Report of Verus — Data Link



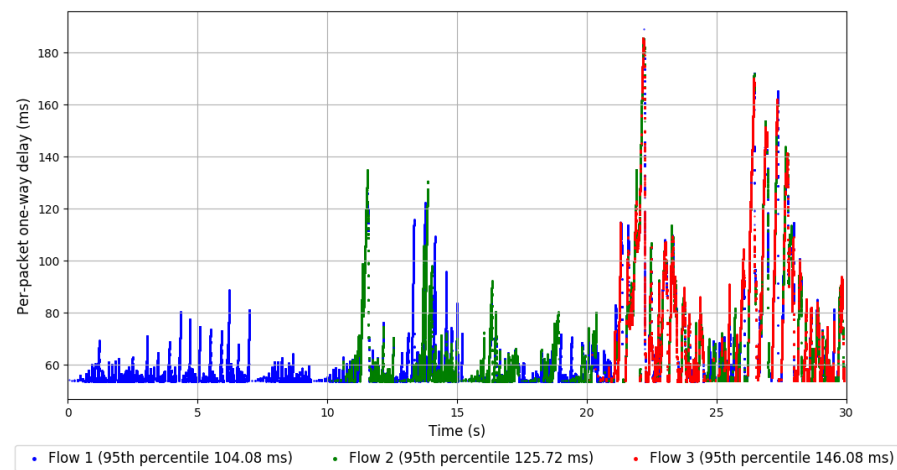
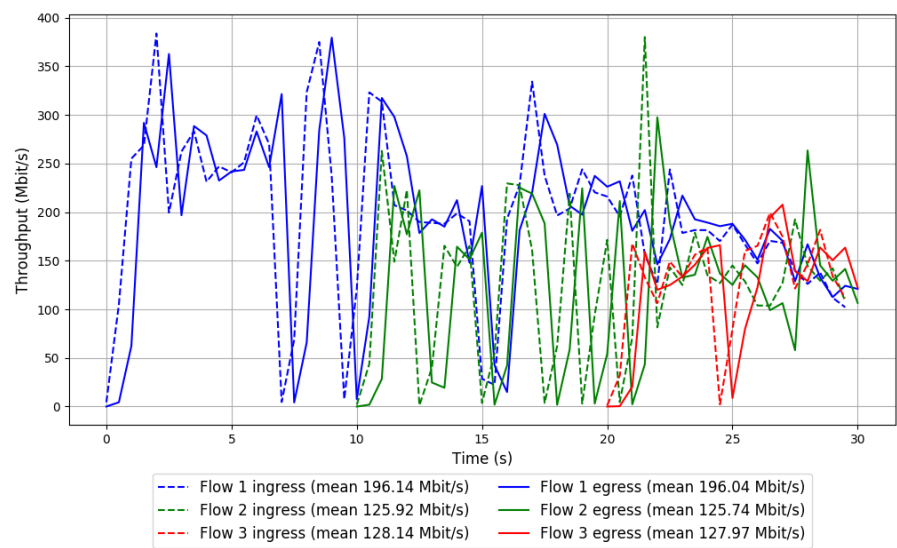
Run 5: Statistics of Verus

Start at: 2018-07-20 09:02:02  
End at: 2018-07-20 09:02:32  
Local clock offset: -0.095 ms  
Remote clock offset: 0.167 ms

# Below is generated by plot.py at 2018-07-20 14:05:17  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 321.47 Mbit/s  
95th percentile per-packet one-way delay: 120.548 ms  
Loss rate: 0.07%  
-- Flow 1:  
Average throughput: 196.04 Mbit/s  
95th percentile per-packet one-way delay: 104.080 ms  
Loss rate: 0.03%  
-- Flow 2:  
Average throughput: 125.74 Mbit/s  
95th percentile per-packet one-way delay: 125.721 ms  
Loss rate: 0.14%  
-- Flow 3:  
Average throughput: 127.97 Mbit/s  
95th percentile per-packet one-way delay: 146.078 ms  
Loss rate: 0.12%



Run 5: Report of Verus — Data Link

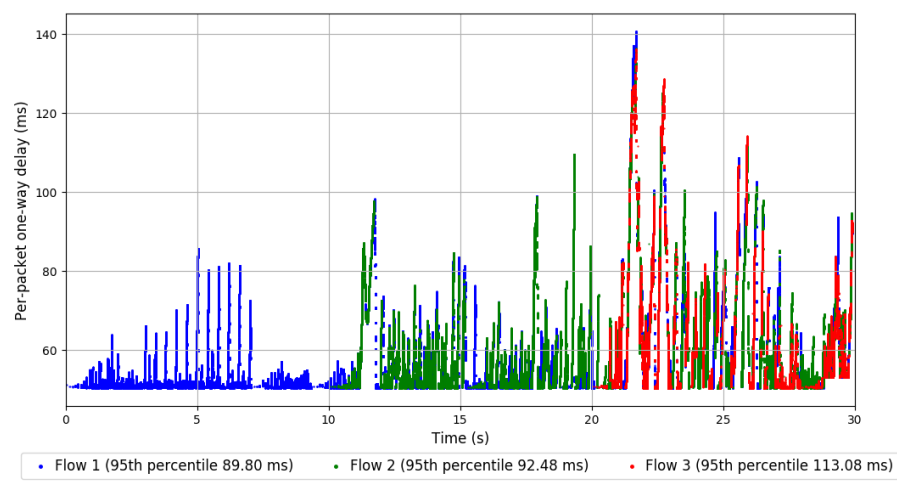
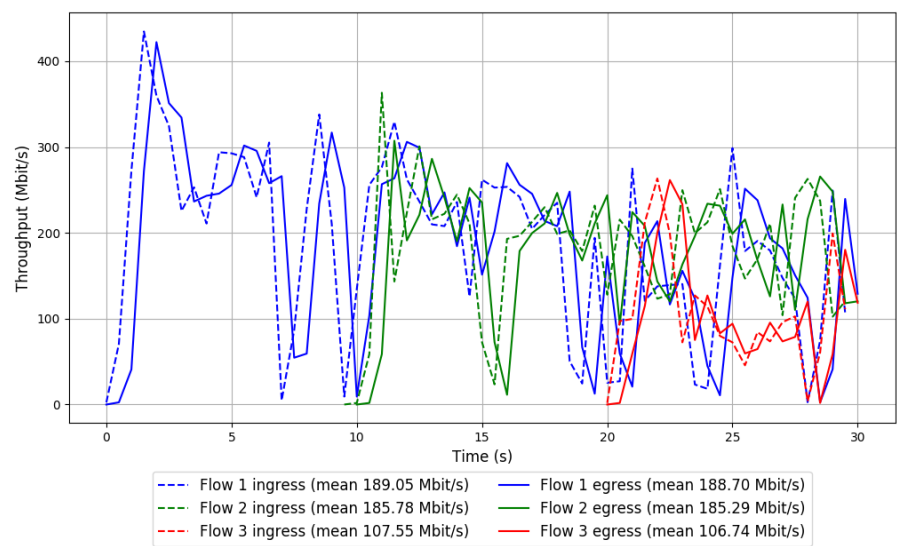


Run 6: Statistics of Verus

Start at: 2018-07-20 09:27:18  
End at: 2018-07-20 09:27:48  
Local clock offset: -0.056 ms  
Remote clock offset: -0.086 ms

# Below is generated by plot.py at 2018-07-20 14:06:06  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 347.12 Mbit/s  
95th percentile per-packet one-way delay: 93.102 ms  
Loss rate: 0.23%  
-- Flow 1:  
Average throughput: 188.70 Mbit/s  
95th percentile per-packet one-way delay: 89.796 ms  
Loss rate: 0.18%  
-- Flow 2:  
Average throughput: 185.29 Mbit/s  
95th percentile per-packet one-way delay: 92.484 ms  
Loss rate: 0.15%  
-- Flow 3:  
Average throughput: 106.74 Mbit/s  
95th percentile per-packet one-way delay: 113.083 ms  
Loss rate: 0.73%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-07-20 09:52:26

End at: 2018-07-20 09:52:56

Local clock offset: -0.007 ms

Remote clock offset: 0.108 ms

# Below is generated by plot.py at 2018-07-20 14:06:06

# Datalink statistics

-- Total of 3 flows:

Average throughput: 318.23 Mbit/s

95th percentile per-packet one-way delay: 110.707 ms

Loss rate: 0.61%

-- Flow 1:

Average throughput: 178.98 Mbit/s

95th percentile per-packet one-way delay: 102.714 ms

Loss rate: 0.50%

-- Flow 2:

Average throughput: 141.06 Mbit/s

95th percentile per-packet one-way delay: 111.408 ms

Loss rate: 0.57%

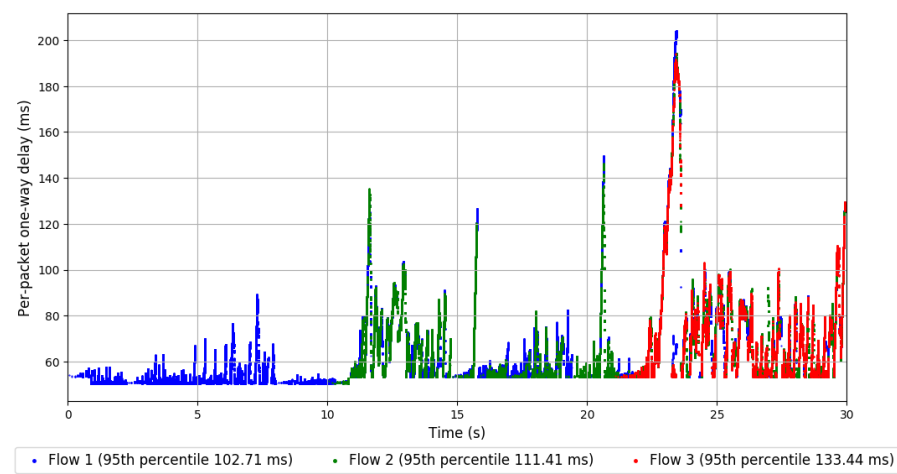
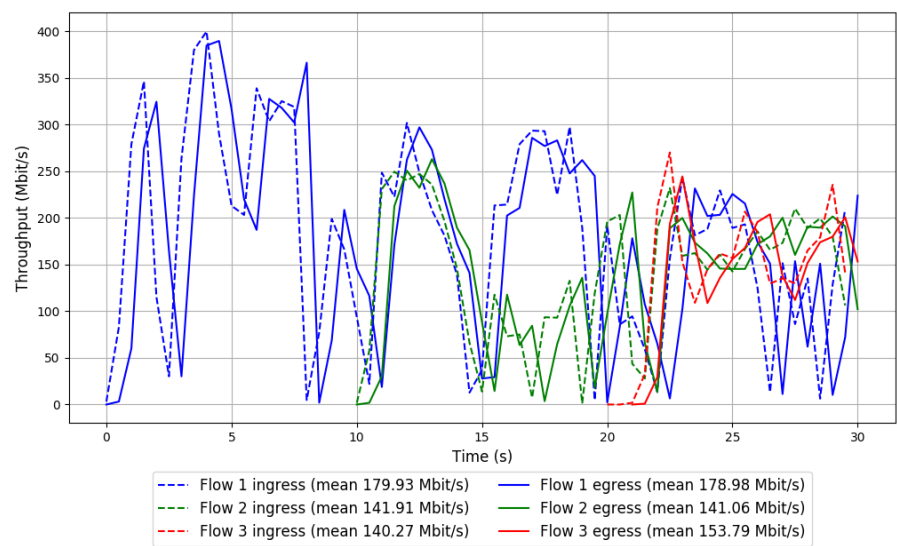
-- Flow 3:

Average throughput: 153.79 Mbit/s

95th percentile per-packet one-way delay: 133.445 ms

Loss rate: 1.11%

Run 7: Report of Verus — Data Link

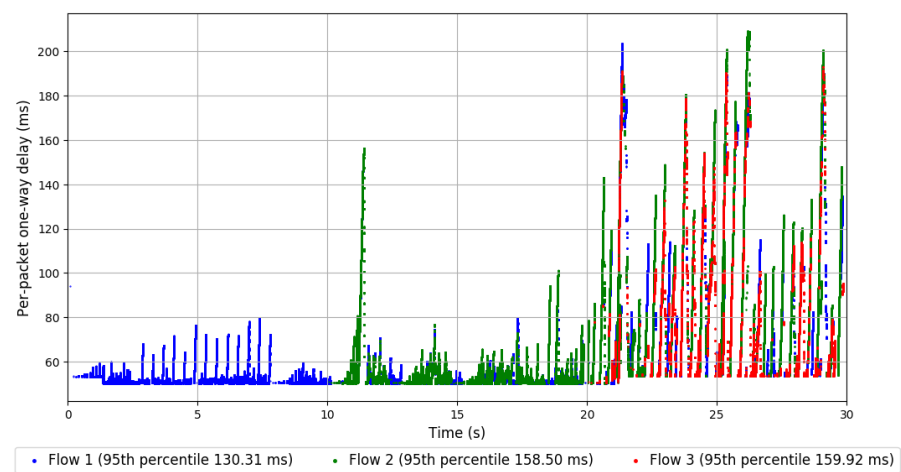
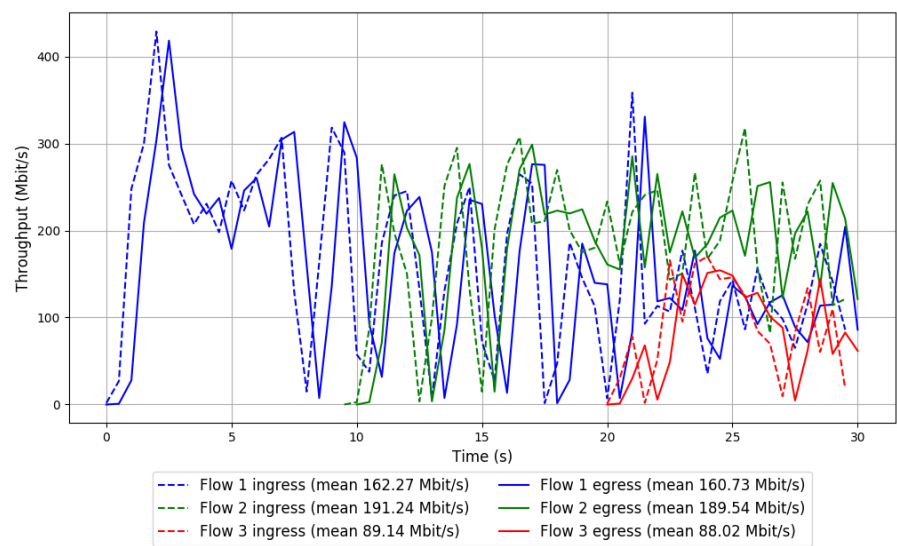


Run 8: Statistics of Verus

Start at: 2018-07-20 10:17:25  
End at: 2018-07-20 10:17:55  
Local clock offset: -0.024 ms  
Remote clock offset: -0.084 ms

# Below is generated by plot.py at 2018-07-20 14:07:35  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 315.43 Mbit/s  
95th percentile per-packet one-way delay: 153.508 ms  
Loss rate: 0.65%  
-- Flow 1:  
Average throughput: 160.73 Mbit/s  
95th percentile per-packet one-way delay: 130.307 ms  
Loss rate: 0.82%  
-- Flow 2:  
Average throughput: 189.54 Mbit/s  
95th percentile per-packet one-way delay: 158.496 ms  
Loss rate: 0.40%  
-- Flow 3:  
Average throughput: 88.02 Mbit/s  
95th percentile per-packet one-way delay: 159.917 ms  
Loss rate: 0.81%

Run 8: Report of Verus — Data Link



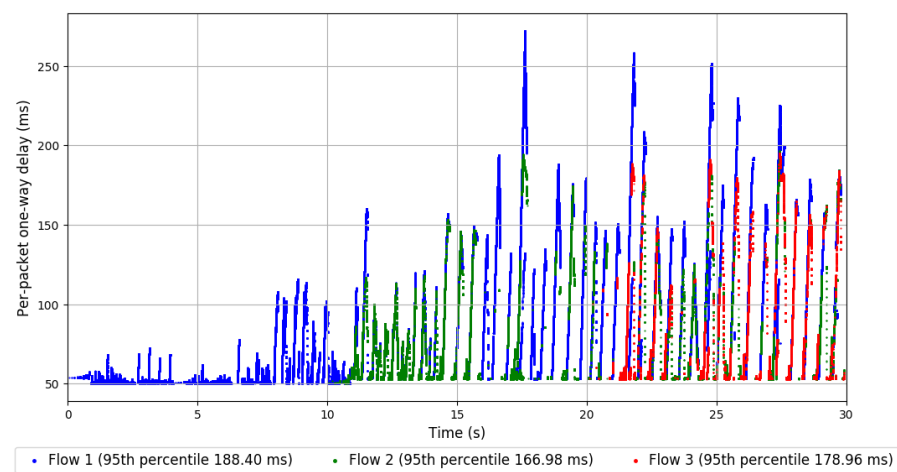
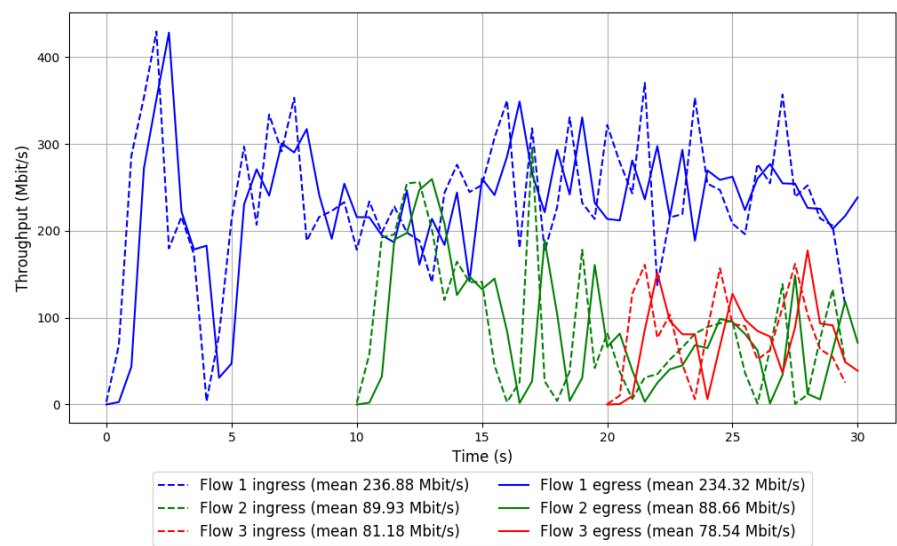
Run 9: Statistics of Verus

Start at: 2018-07-20 10:42:16  
End at: 2018-07-20 10:42:46  
Local clock offset: -0.01 ms  
Remote clock offset: -0.159 ms

# Below is generated by plot.py at 2018-07-20 14:08:41  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 318.09 Mbit/s  
95th percentile per-packet one-way delay: 184.268 ms  
Loss rate: 1.04%  
-- Flow 1:  
Average throughput: 234.32 Mbit/s  
95th percentile per-packet one-way delay: 188.399 ms  
Loss rate: 0.70%  
-- Flow 2:  
Average throughput: 88.66 Mbit/s  
95th percentile per-packet one-way delay: 166.981 ms  
Loss rate: 1.40%  
-- Flow 3:  
Average throughput: 78.54 Mbit/s  
95th percentile per-packet one-way delay: 178.963 ms  
Loss rate: 3.23%



Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

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

End at: 2018-07-20 11:07:31

Local clock offset: -0.05 ms

Remote clock offset: 0.046 ms

# Below is generated by plot.py at 2018-07-20 14:09:41

# Datalink statistics

-- Total of 3 flows:

Average throughput: 363.09 Mbit/s

95th percentile per-packet one-way delay: 136.830 ms

Loss rate: 0.26%

-- Flow 1:

Average throughput: 242.77 Mbit/s

95th percentile per-packet one-way delay: 139.645 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 154.51 Mbit/s

95th percentile per-packet one-way delay: 126.685 ms

Loss rate: 0.58%

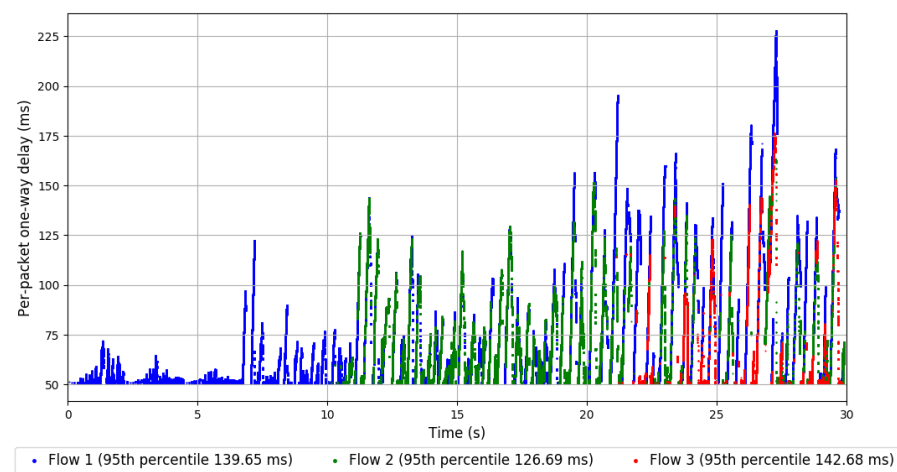
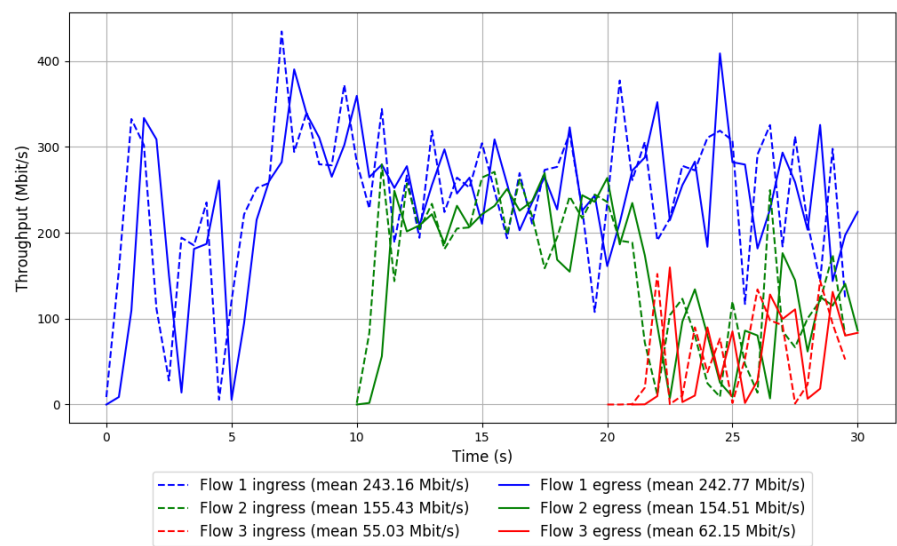
-- Flow 3:

Average throughput: 62.15 Mbit/s

95th percentile per-packet one-way delay: 142.675 ms

Loss rate: 0.60%

Run 10: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2018-07-20 07:11:53

End at: 2018-07-20 07:12:23

Local clock offset: -0.069 ms

Remote clock offset: -0.12 ms

# Below is generated by plot.py at 2018-07-20 14:14:13

# Datalink statistics

-- Total of 3 flows:

Average throughput: 527.88 Mbit/s

95th percentile per-packet one-way delay: 53.616 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 330.79 Mbit/s

95th percentile per-packet one-way delay: 53.561 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 268.71 Mbit/s

95th percentile per-packet one-way delay: 53.639 ms

Loss rate: 0.00%

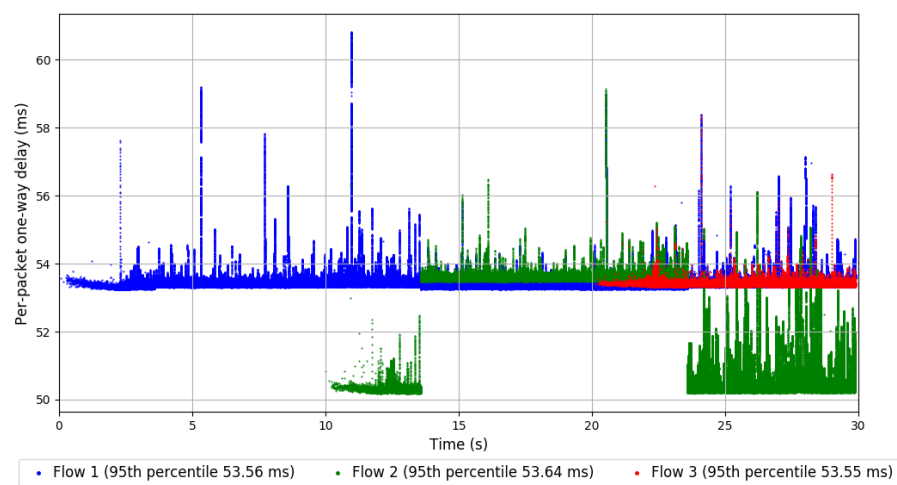
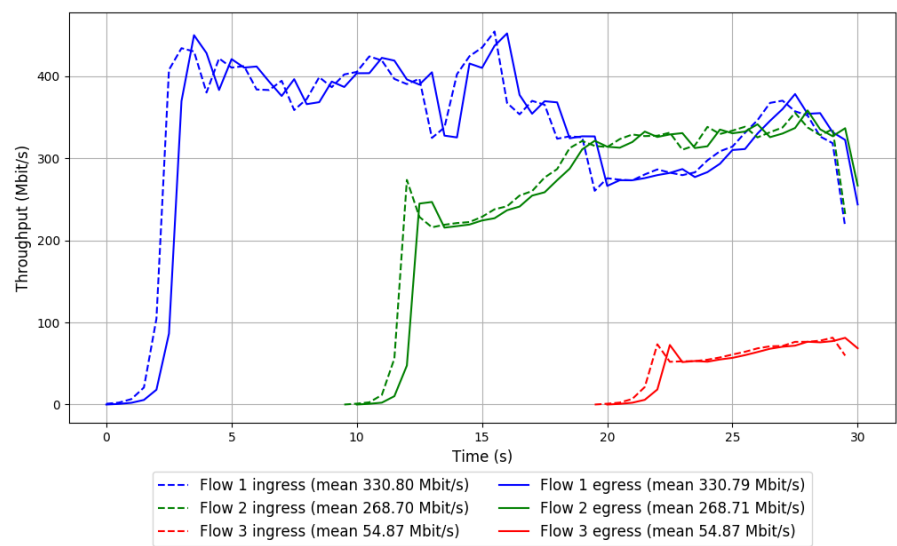
-- Flow 3:

Average throughput: 54.87 Mbit/s

95th percentile per-packet one-way delay: 53.553 ms

Loss rate: 0.02%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2018-07-20 07:36:48

End at: 2018-07-20 07:37:18

Local clock offset: -0.168 ms

Remote clock offset: 0.019 ms

# Below is generated by plot.py at 2018-07-20 14:14:39

# Datalink statistics

-- Total of 3 flows:

Average throughput: 531.29 Mbit/s

95th percentile per-packet one-way delay: 53.972 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 308.10 Mbit/s

95th percentile per-packet one-way delay: 54.041 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 252.70 Mbit/s

95th percentile per-packet one-way delay: 53.869 ms

Loss rate: 0.00%

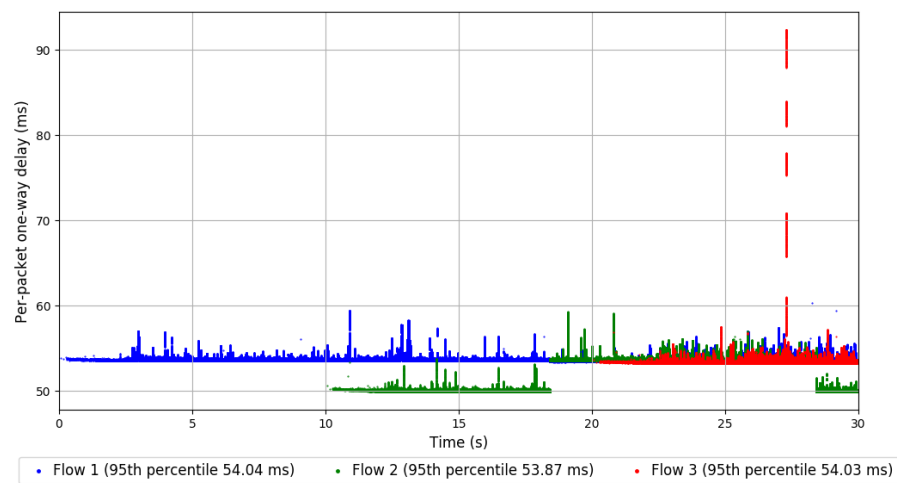
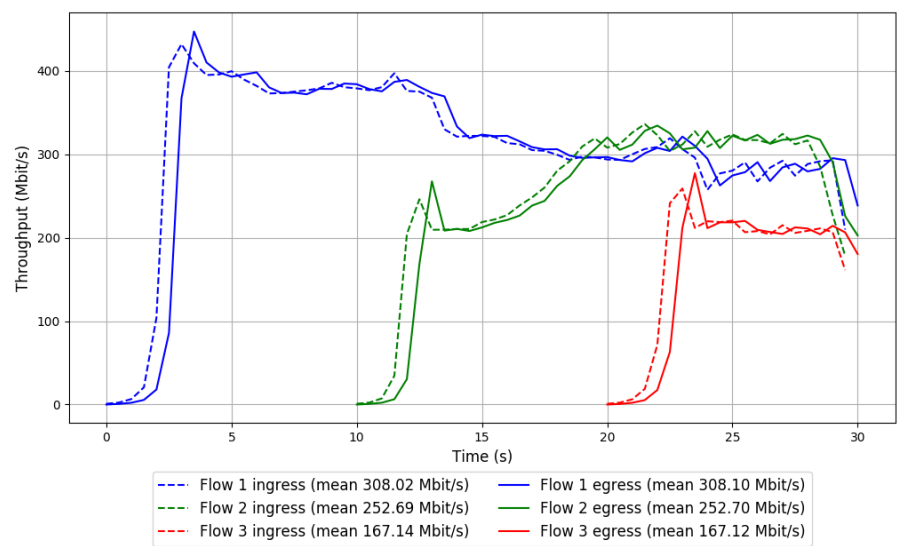
-- Flow 3:

Average throughput: 167.12 Mbit/s

95th percentile per-packet one-way delay: 54.030 ms

Loss rate: 0.05%

Run 2: Report of PCC-Vivace — Data Link



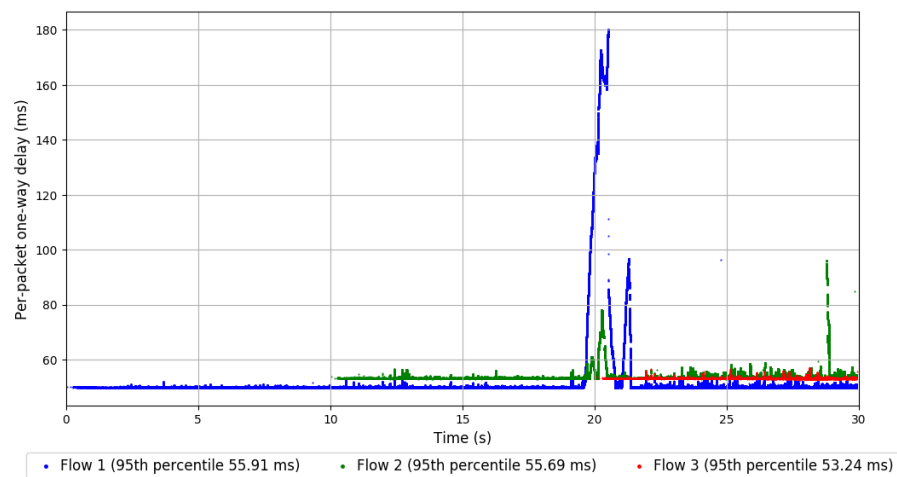
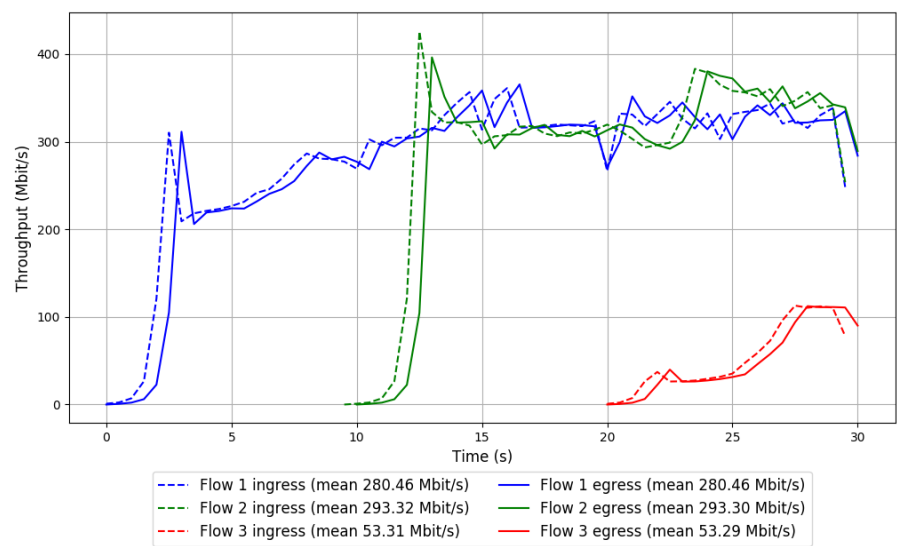
Run 3: Statistics of PCC-Vivace

Start at: 2018-07-20 08:01:52  
End at: 2018-07-20 08:02:22  
Local clock offset: -0.059 ms  
Remote clock offset: -0.427 ms

# Below is generated by plot.py at 2018-07-20 14:14:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 493.04 Mbit/s  
95th percentile per-packet one-way delay: 55.449 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 280.46 Mbit/s  
95th percentile per-packet one-way delay: 55.907 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 293.30 Mbit/s  
95th percentile per-packet one-way delay: 55.691 ms  
Loss rate: 0.02%  
-- Flow 3:  
Average throughput: 53.29 Mbit/s  
95th percentile per-packet one-way delay: 53.238 ms  
Loss rate: 0.03%



Run 3: Report of PCC-Vivace — Data Link

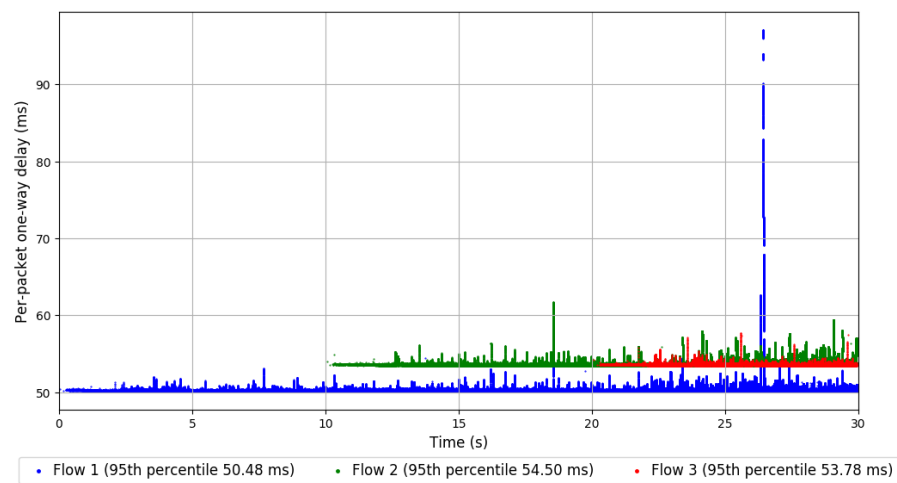
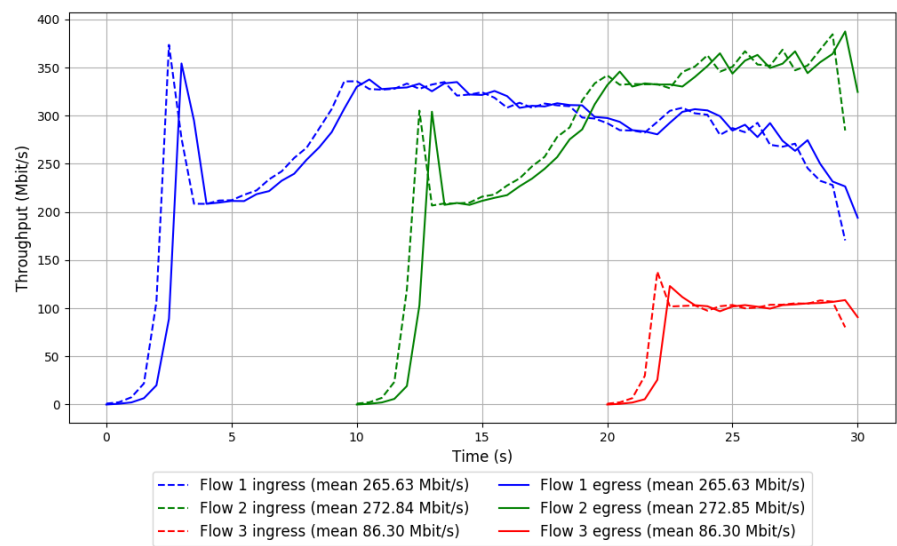


Run 4: Statistics of PCC-Vivace

Start at: 2018-07-20 08:26:47  
End at: 2018-07-20 08:27:17  
Local clock offset: -0.075 ms  
Remote clock offset: -0.085 ms

# Below is generated by plot.py at 2018-07-20 14:14:43  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 475.48 Mbit/s  
95th percentile per-packet one-way delay: 53.823 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 265.63 Mbit/s  
95th percentile per-packet one-way delay: 50.477 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 272.85 Mbit/s  
95th percentile per-packet one-way delay: 54.500 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 86.30 Mbit/s  
95th percentile per-packet one-way delay: 53.776 ms  
Loss rate: 0.00%

Run 4: Report of PCC-Vivace — Data Link

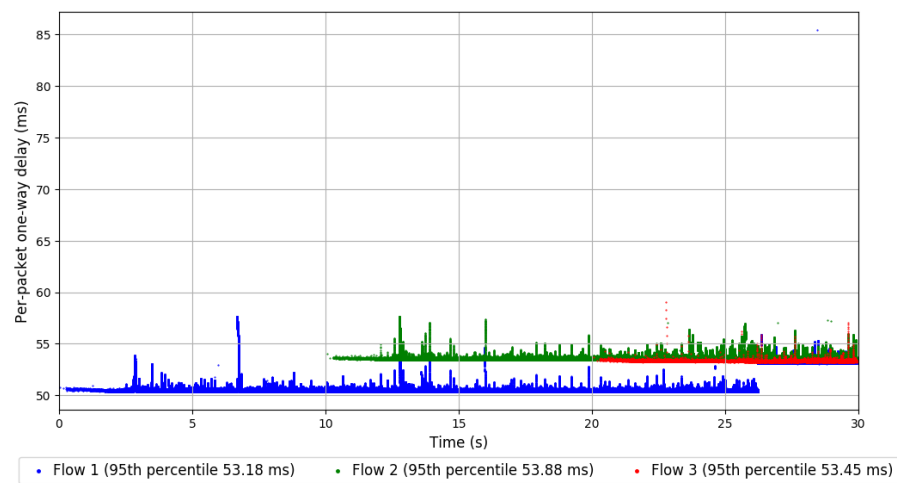
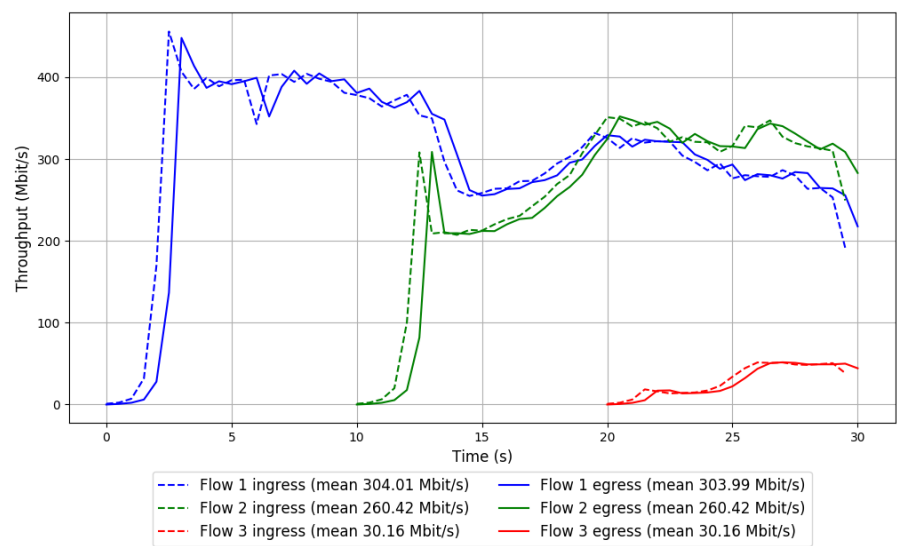


Run 5: Statistics of PCC-Vivace

Start at: 2018-07-20 08:51:40  
End at: 2018-07-20 08:52:10  
Local clock offset: -0.036 ms  
Remote clock offset: -0.056 ms

# Below is generated by plot.py at 2018-07-20 14:15:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 487.10 Mbit/s  
95th percentile per-packet one-way delay: 53.644 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 303.99 Mbit/s  
95th percentile per-packet one-way delay: 53.181 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 260.42 Mbit/s  
95th percentile per-packet one-way delay: 53.881 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 30.16 Mbit/s  
95th percentile per-packet one-way delay: 53.450 ms  
Loss rate: 0.00%

Run 5: Report of PCC-Vivace — Data Link



Run 6: Statistics of PCC-Vivace

Start at: 2018-07-20 09:16:48

End at: 2018-07-20 09:17:18

Local clock offset: -0.029 ms

Remote clock offset: 0.199 ms

# Below is generated by plot.py at 2018-07-20 14:16:48

# Datalink statistics

-- Total of 3 flows:

Average throughput: 503.13 Mbit/s

95th percentile per-packet one-way delay: 54.012 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 314.02 Mbit/s

95th percentile per-packet one-way delay: 53.661 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 259.33 Mbit/s

95th percentile per-packet one-way delay: 54.646 ms

Loss rate: 0.01%

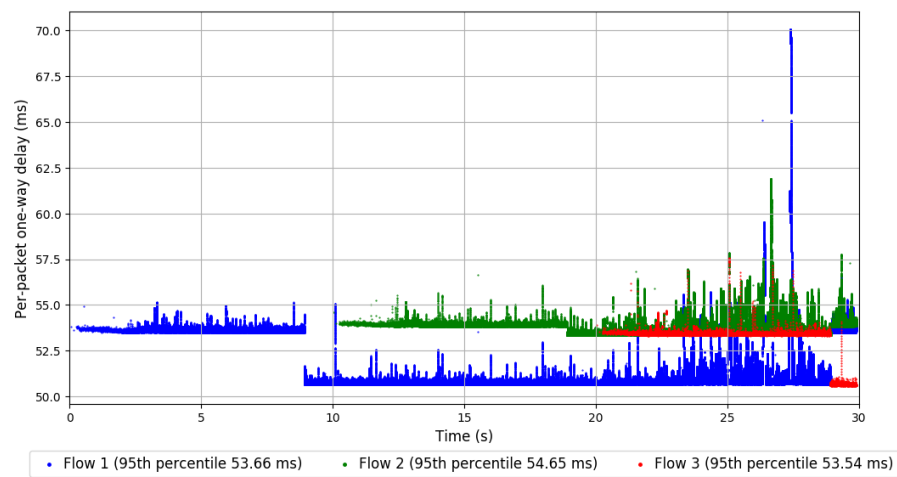
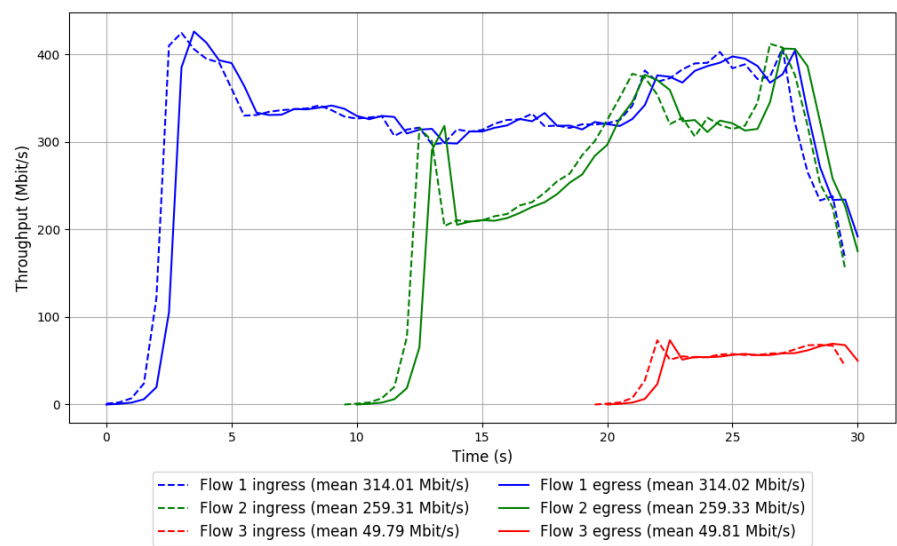
-- Flow 3:

Average throughput: 49.81 Mbit/s

95th percentile per-packet one-way delay: 53.536 ms

Loss rate: 0.00%

Run 6: Report of PCC-Vivace — Data Link



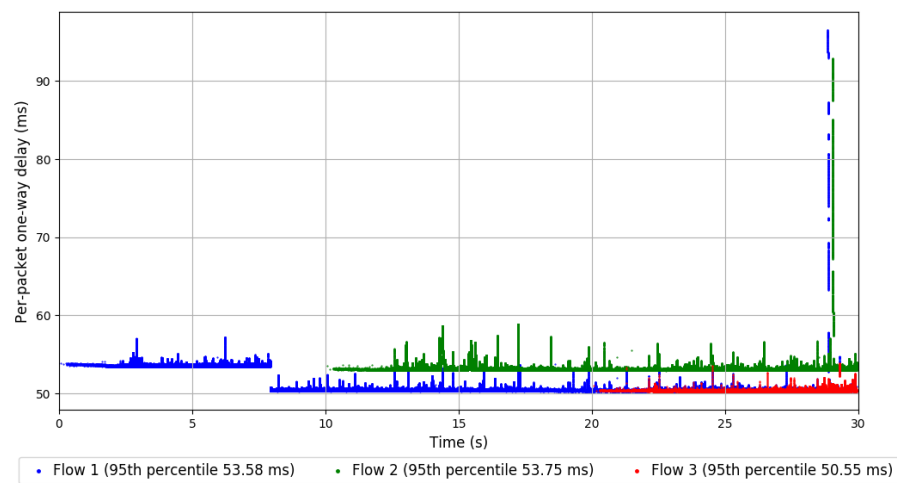
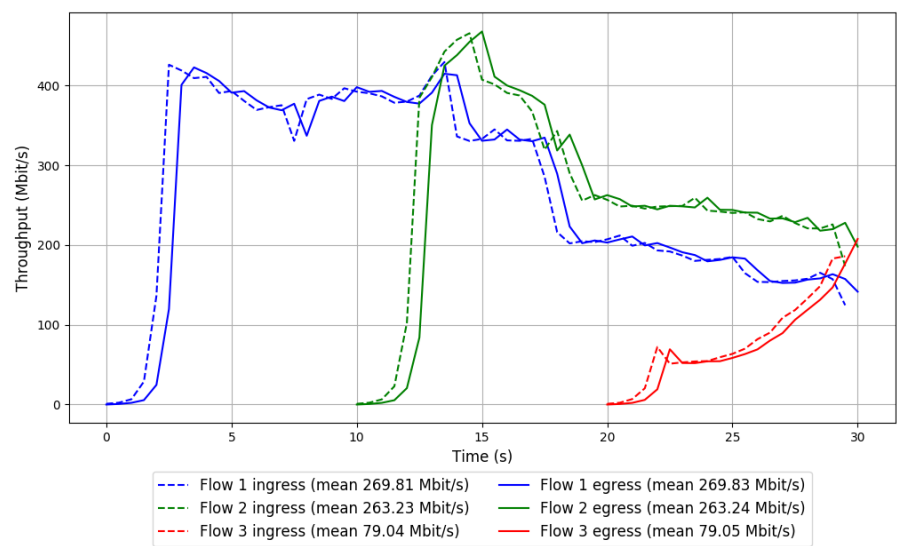
Run 7: Statistics of PCC-Vivace

Start at: 2018-07-20 09:42:09  
End at: 2018-07-20 09:42:39  
Local clock offset: 0.101 ms  
Remote clock offset: -0.108 ms

# Below is generated by plot.py at 2018-07-20 14:16:57  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 470.95 Mbit/s  
95th percentile per-packet one-way delay: 53.581 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 269.83 Mbit/s  
95th percentile per-packet one-way delay: 53.581 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 263.24 Mbit/s  
95th percentile per-packet one-way delay: 53.749 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 79.05 Mbit/s  
95th percentile per-packet one-way delay: 50.547 ms  
Loss rate: 0.00%



Run 7: Report of PCC-Vivace — Data Link



Run 8: Statistics of PCC-Vivace

Start at: 2018-07-20 10:06:55

End at: 2018-07-20 10:07:25

Local clock offset: -0.04 ms

Remote clock offset: 0.264 ms

# Below is generated by plot.py at 2018-07-20 14:17:25

# Datalink statistics

-- Total of 3 flows:

Average throughput: 494.96 Mbit/s

95th percentile per-packet one-way delay: 53.811 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 297.93 Mbit/s

95th percentile per-packet one-way delay: 53.662 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 261.59 Mbit/s

95th percentile per-packet one-way delay: 53.911 ms

Loss rate: 0.00%

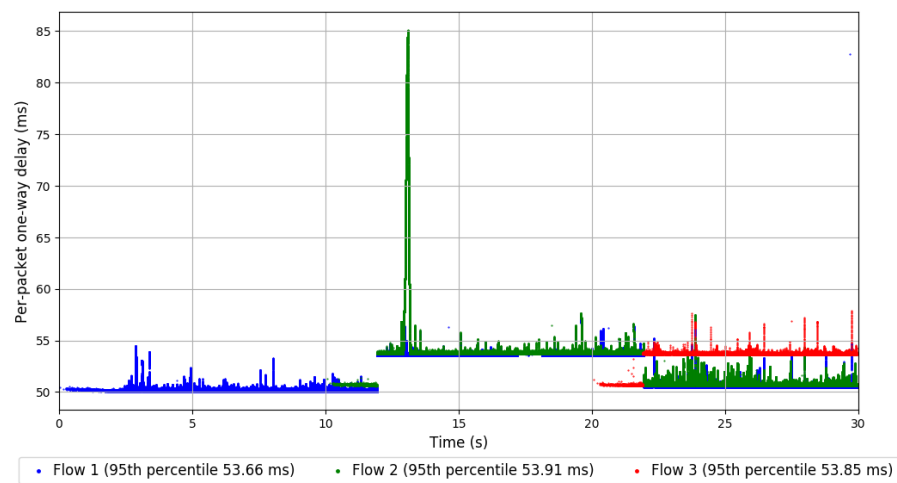
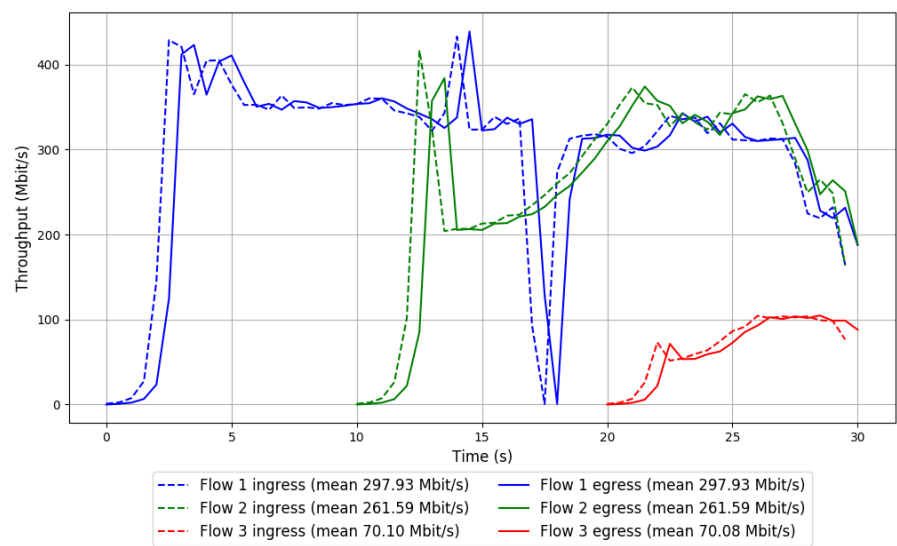
-- Flow 3:

Average throughput: 70.08 Mbit/s

95th percentile per-packet one-way delay: 53.854 ms

Loss rate: 0.00%

Run 8: Report of PCC-Vivace — Data Link

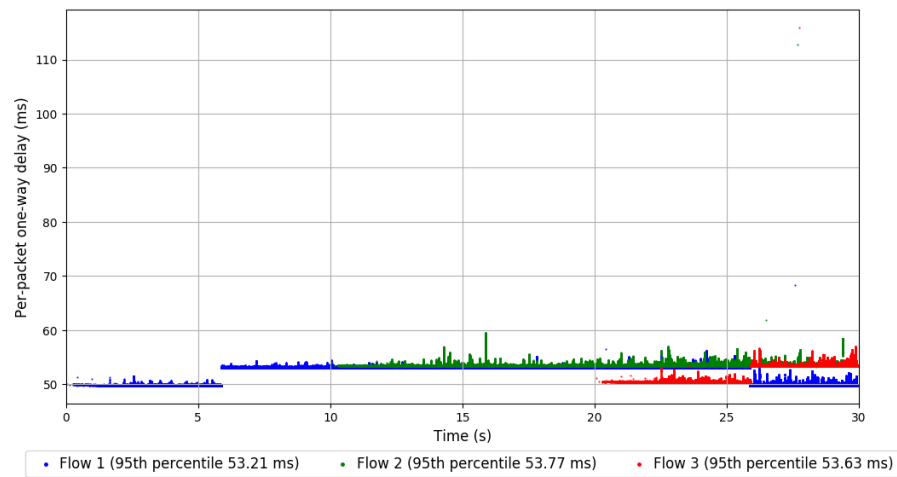
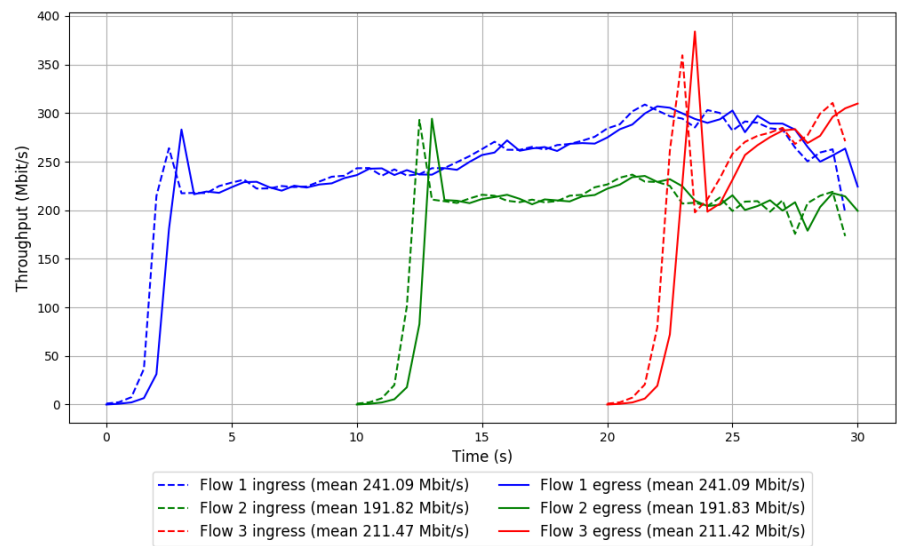


Run 9: Statistics of PCC-Vivace

Start at: 2018-07-20 10:31:51  
End at: 2018-07-20 10:32:21  
Local clock offset: -0.07 ms  
Remote clock offset: -0.155 ms

# Below is generated by plot.py at 2018-07-20 14:18:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 438.36 Mbit/s  
95th percentile per-packet one-way delay: 53.532 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 241.09 Mbit/s  
95th percentile per-packet one-way delay: 53.214 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 191.83 Mbit/s  
95th percentile per-packet one-way delay: 53.771 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 211.42 Mbit/s  
95th percentile per-packet one-way delay: 53.631 ms  
Loss rate: 0.00%

Run 9: Report of PCC-Vivace — Data Link

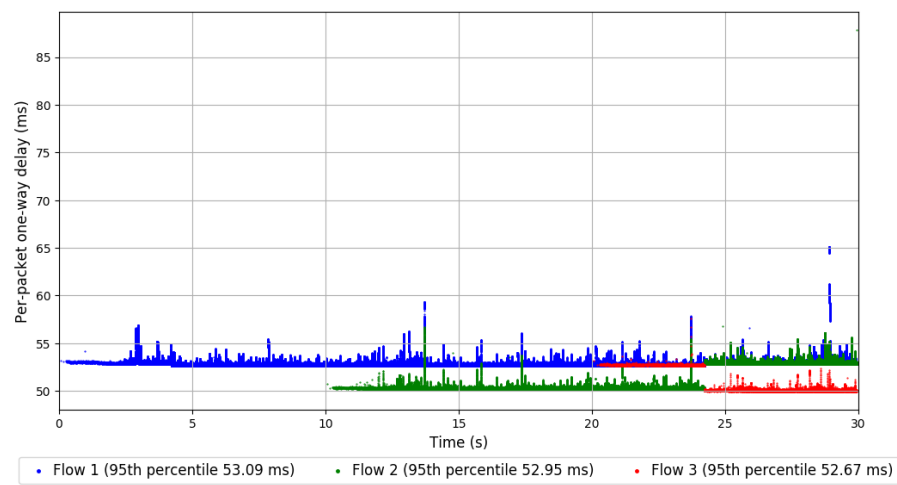
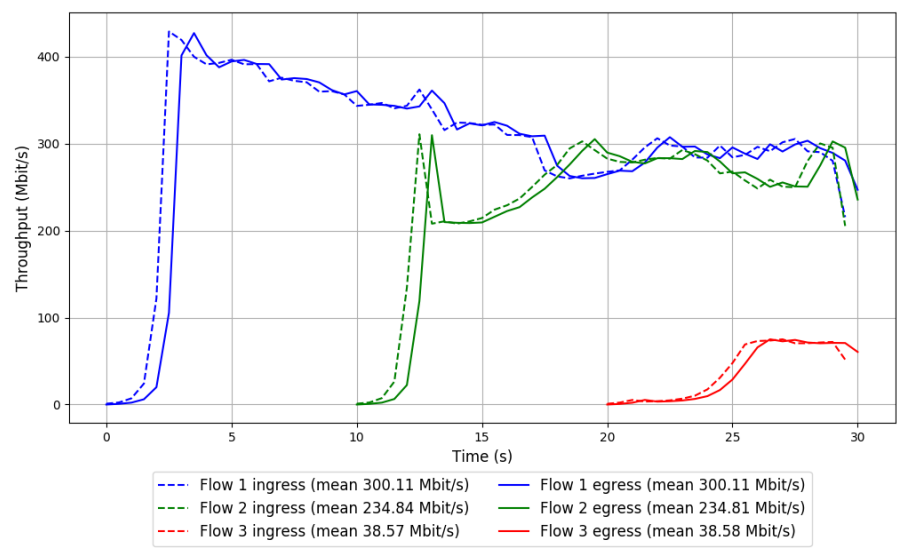


Run 10: Statistics of PCC-Vivace

Start at: 2018-07-20 10:56:42  
End at: 2018-07-20 10:57:12  
Local clock offset: 0.038 ms  
Remote clock offset: -0.248 ms

# Below is generated by plot.py at 2018-07-20 14:18:14  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 469.00 Mbit/s  
95th percentile per-packet one-way delay: 53.017 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 300.11 Mbit/s  
95th percentile per-packet one-way delay: 53.090 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 234.81 Mbit/s  
95th percentile per-packet one-way delay: 52.946 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 38.58 Mbit/s  
95th percentile per-packet one-way delay: 52.675 ms  
Loss rate: 0.00%

Run 10: Report of PCC-Vivace — Data Link



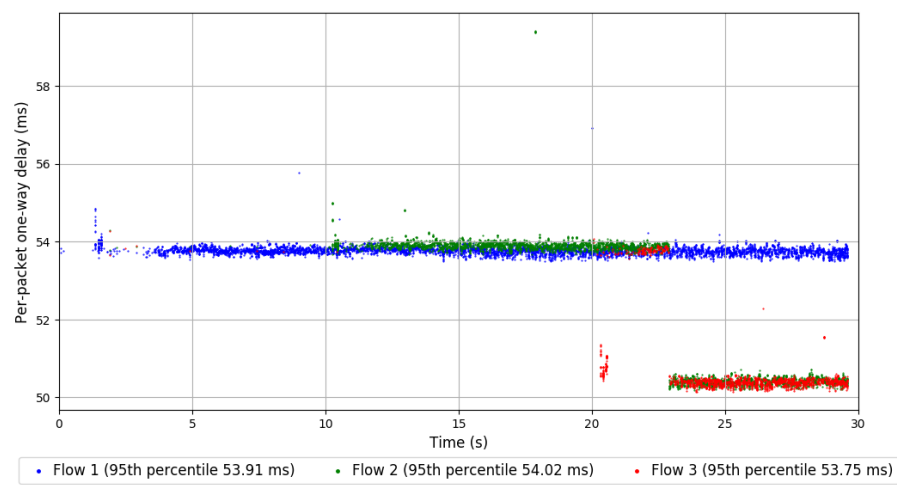
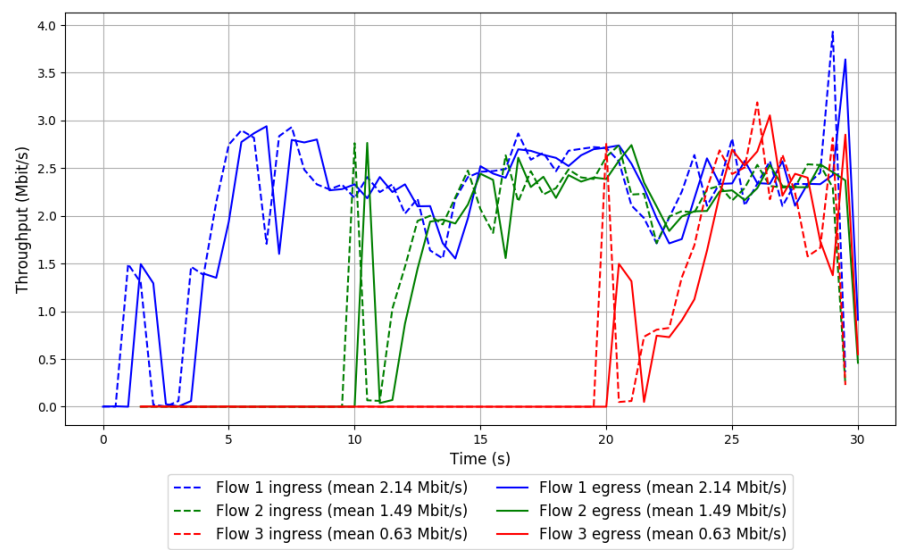
Run 1: Statistics of WebRTC media

Start at: 2018-07-20 07:18:23  
End at: 2018-07-20 07:18:53  
Local clock offset: -0.278 ms  
Remote clock offset: -0.136 ms

# Below is generated by plot.py at 2018-07-20 14:18:14  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 4.12 Mbit/s  
95th percentile per-packet one-way delay: 53.974 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 2.14 Mbit/s  
95th percentile per-packet one-way delay: 53.914 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 1.49 Mbit/s  
95th percentile per-packet one-way delay: 54.018 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.63 Mbit/s  
95th percentile per-packet one-way delay: 53.751 ms  
Loss rate: 0.00%



Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-07-20 07:43:27

End at: 2018-07-20 07:43:57

Local clock offset: -0.123 ms

Remote clock offset: 0.13 ms

# Below is generated by plot.py at 2018-07-20 14:18:14

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.85 Mbit/s

95th percentile per-packet one-way delay: 53.964 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.07 Mbit/s

95th percentile per-packet one-way delay: 50.495 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.26 Mbit/s

95th percentile per-packet one-way delay: 50.876 ms

Loss rate: 0.00%

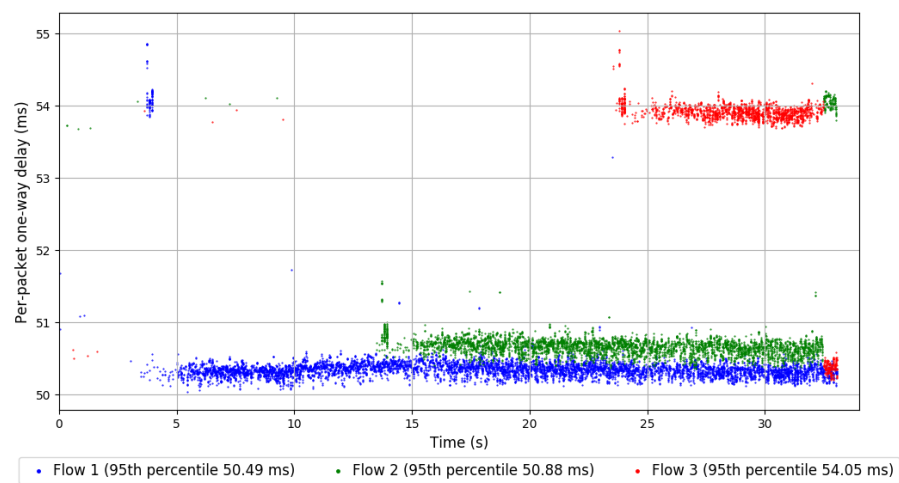
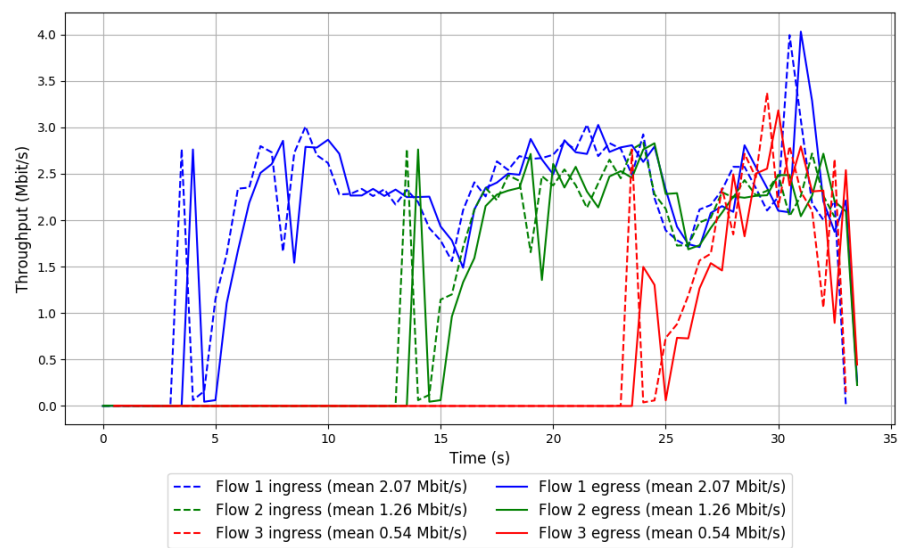
-- Flow 3:

Average throughput: 0.54 Mbit/s

95th percentile per-packet one-way delay: 54.055 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-07-20 08:08:16

End at: 2018-07-20 08:08:46

Local clock offset: -0.153 ms

Remote clock offset: 1.238 ms

# Below is generated by plot.py at 2018-07-20 14:18:14

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.75 Mbit/s

95th percentile per-packet one-way delay: 55.253 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.99 Mbit/s

95th percentile per-packet one-way delay: 54.651 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.26 Mbit/s

95th percentile per-packet one-way delay: 55.304 ms

Loss rate: 0.00%

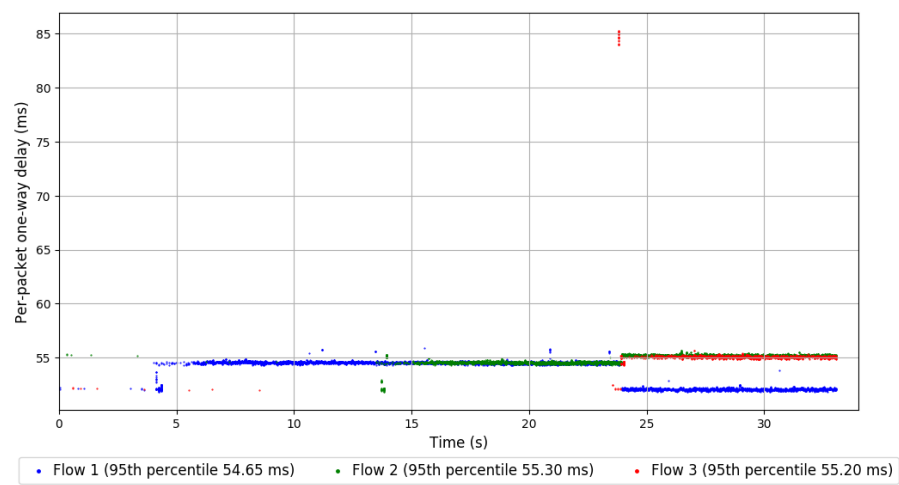
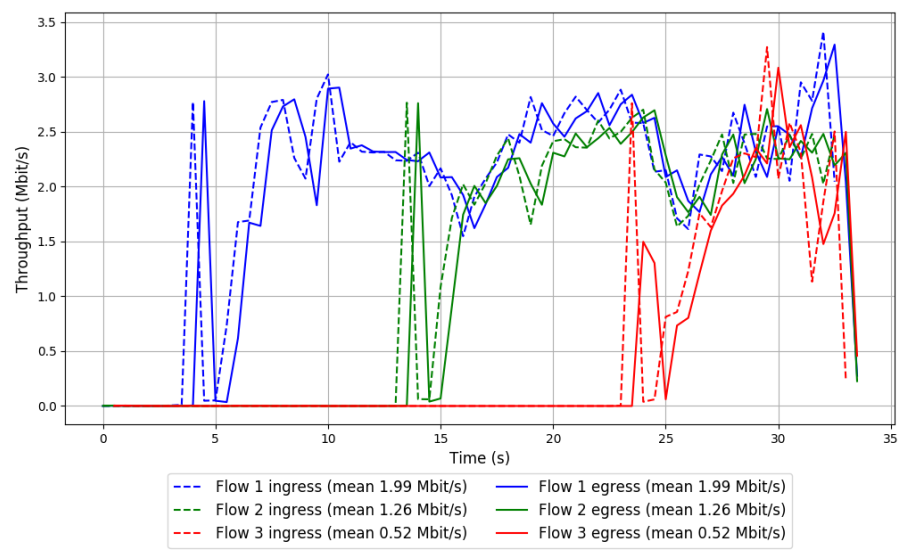
-- Flow 3:

Average throughput: 0.52 Mbit/s

95th percentile per-packet one-way delay: 55.205 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link

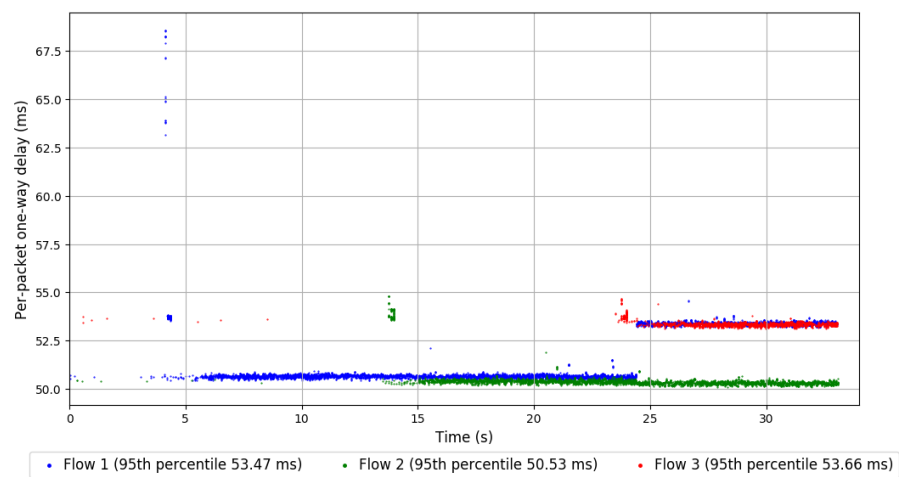
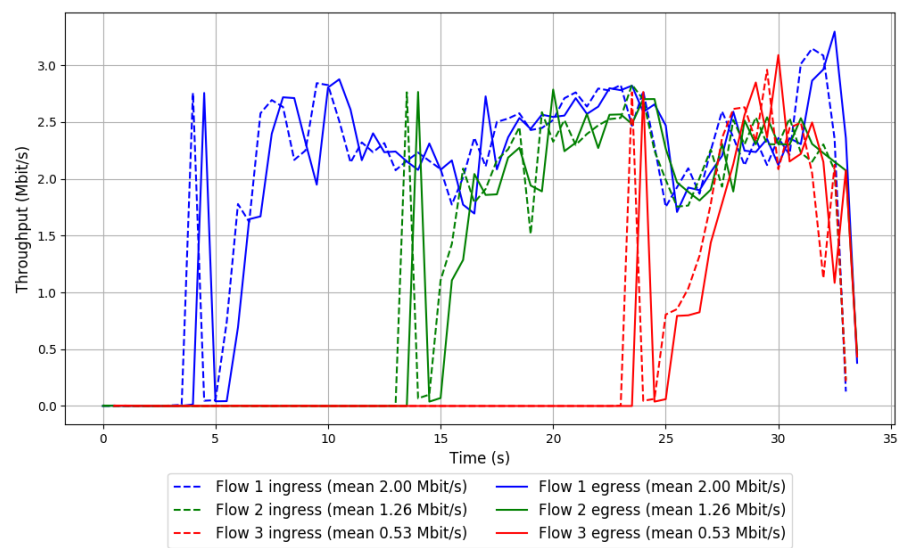


Run 4: Statistics of WebRTC media

Start at: 2018-07-20 08:33:25  
End at: 2018-07-20 08:33:55  
Local clock offset: -0.055 ms  
Remote clock offset: -0.098 ms

# Below is generated by plot.py at 2018-07-20 14:18:14  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 3.76 Mbit/s  
95th percentile per-packet one-way delay: 53.469 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 2.00 Mbit/s  
95th percentile per-packet one-way delay: 53.471 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 1.26 Mbit/s  
95th percentile per-packet one-way delay: 50.535 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.53 Mbit/s  
95th percentile per-packet one-way delay: 53.661 ms  
Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



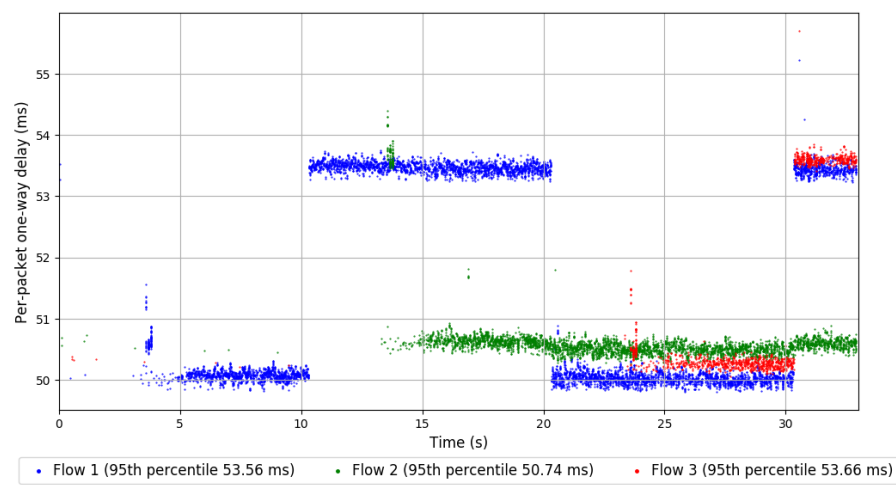
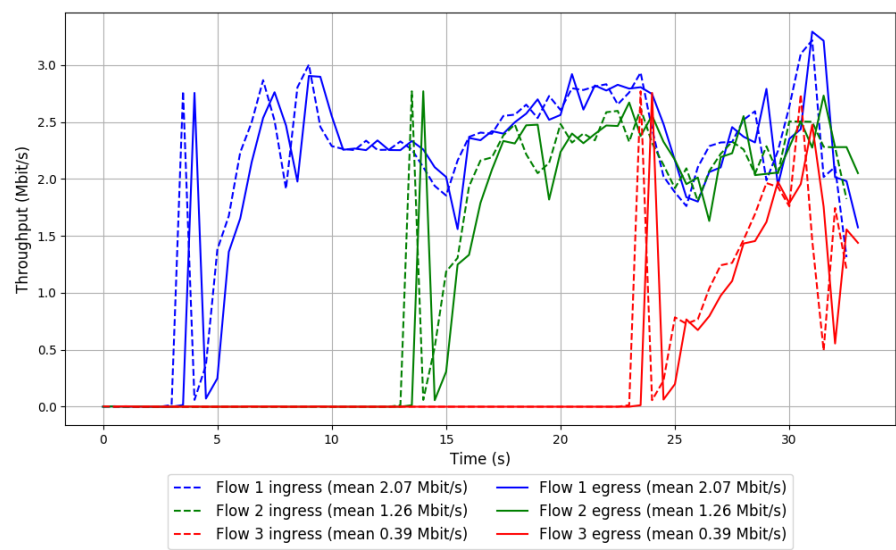
Run 5: Statistics of WebRTC media

Start at: 2018-07-20 08:58:09  
End at: 2018-07-20 08:58:39  
Local clock offset: 0.014 ms  
Remote clock offset: -0.042 ms

# Below is generated by plot.py at 2018-07-20 14:18:14  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 3.71 Mbit/s  
95th percentile per-packet one-way delay: 53.573 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 2.07 Mbit/s  
95th percentile per-packet one-way delay: 53.564 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 1.26 Mbit/s  
95th percentile per-packet one-way delay: 50.744 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.39 Mbit/s  
95th percentile per-packet one-way delay: 53.659 ms  
Loss rate: 0.00%



Run 5: Report of WebRTC media — Data Link

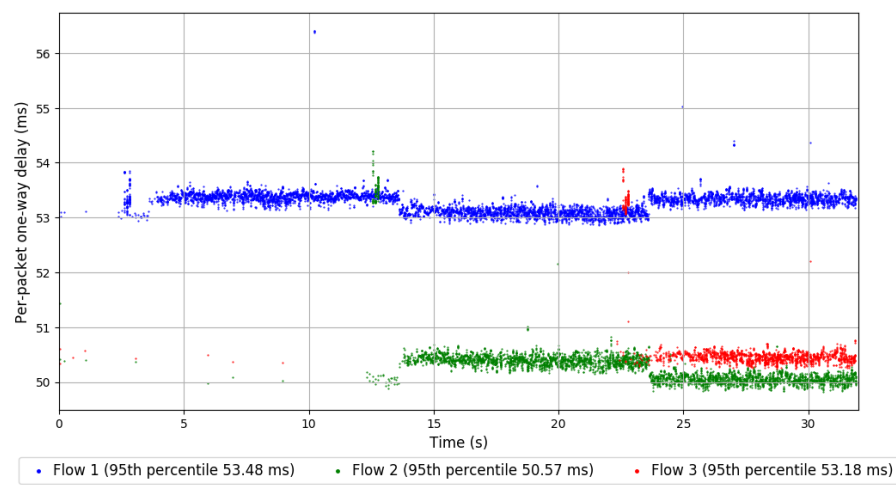
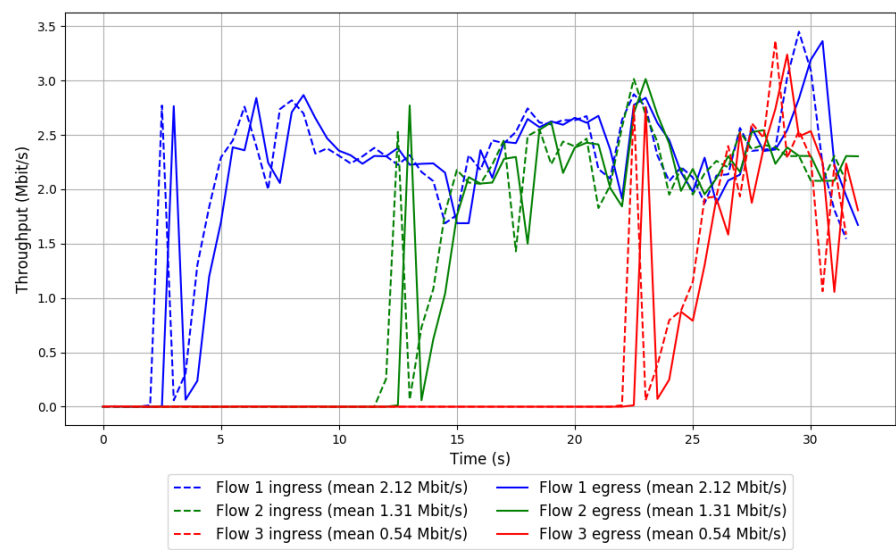


Run 6: Statistics of WebRTC media

Start at: 2018-07-20 09:23:25  
End at: 2018-07-20 09:23:55  
Local clock offset: -0.096 ms  
Remote clock offset: -0.115 ms

# Below is generated by plot.py at 2018-07-20 14:18:14  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 3.97 Mbit/s  
95th percentile per-packet one-way delay: 53.455 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 2.12 Mbit/s  
95th percentile per-packet one-way delay: 53.482 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 1.31 Mbit/s  
95th percentile per-packet one-way delay: 50.566 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.54 Mbit/s  
95th percentile per-packet one-way delay: 53.183 ms  
Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link

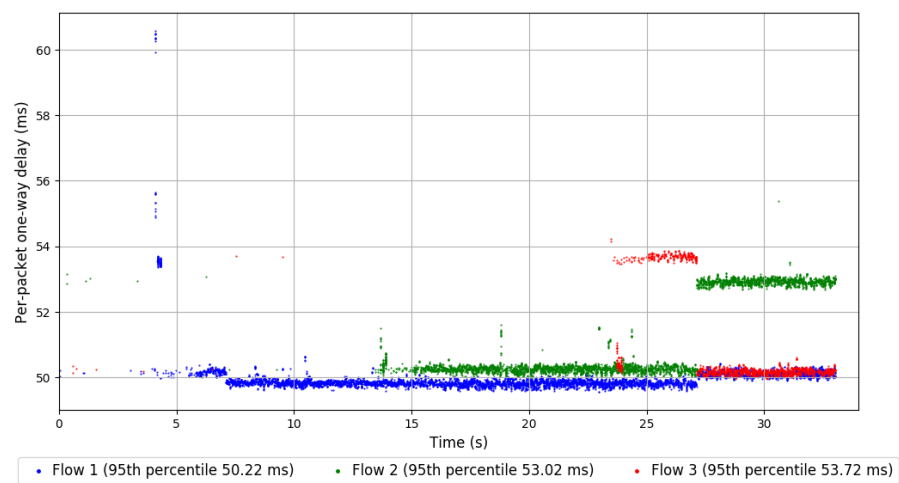
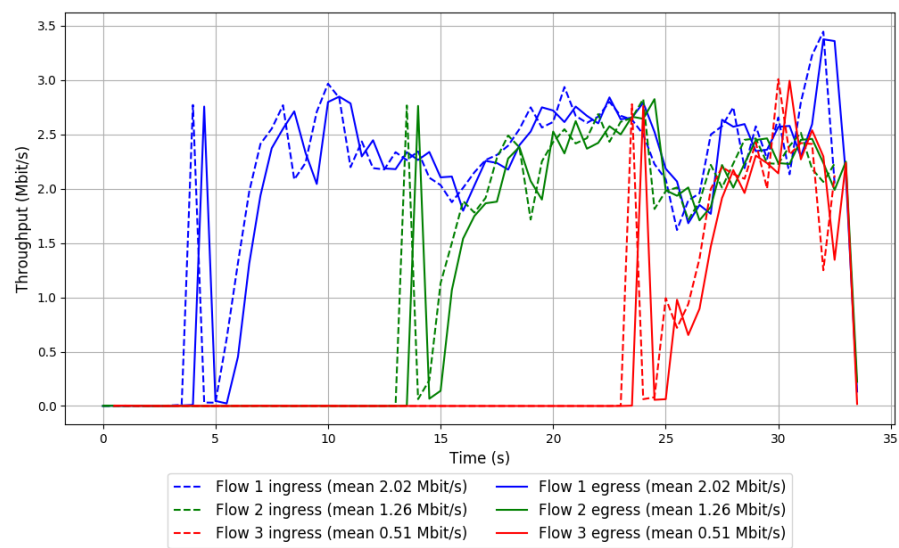


Run 7: Statistics of WebRTC media

Start at: 2018-07-20 09:48:33  
End at: 2018-07-20 09:49:03  
Local clock offset: 0.195 ms  
Remote clock offset: -0.112 ms

# Below is generated by plot.py at 2018-07-20 14:18:15  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 3.77 Mbit/s  
95th percentile per-packet one-way delay: 53.007 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 2.02 Mbit/s  
95th percentile per-packet one-way delay: 50.224 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 1.26 Mbit/s  
95th percentile per-packet one-way delay: 53.017 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.51 Mbit/s  
95th percentile per-packet one-way delay: 53.715 ms  
Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-07-20 10:13:31

End at: 2018-07-20 10:14:01

Local clock offset: -0.38 ms

Remote clock offset: 0.237 ms

# Below is generated by plot.py at 2018-07-20 14:18:15

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.81 Mbit/s

95th percentile per-packet one-way delay: 53.990 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.02 Mbit/s

95th percentile per-packet one-way delay: 51.170 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.28 Mbit/s

95th percentile per-packet one-way delay: 53.945 ms

Loss rate: 0.00%

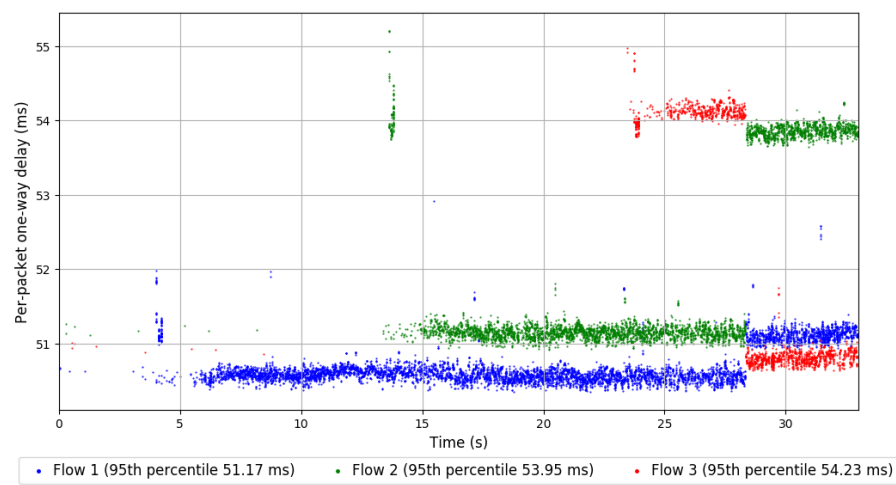
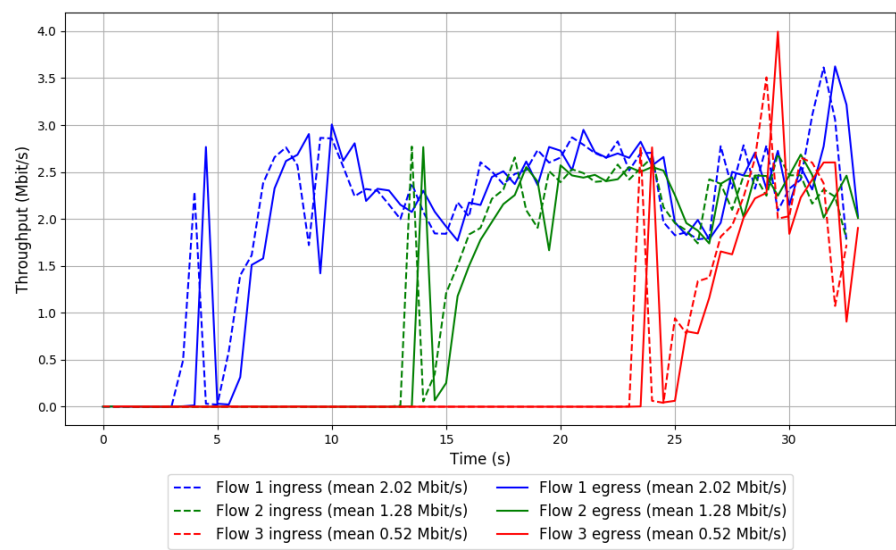
-- Flow 3:

Average throughput: 0.52 Mbit/s

95th percentile per-packet one-way delay: 54.226 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



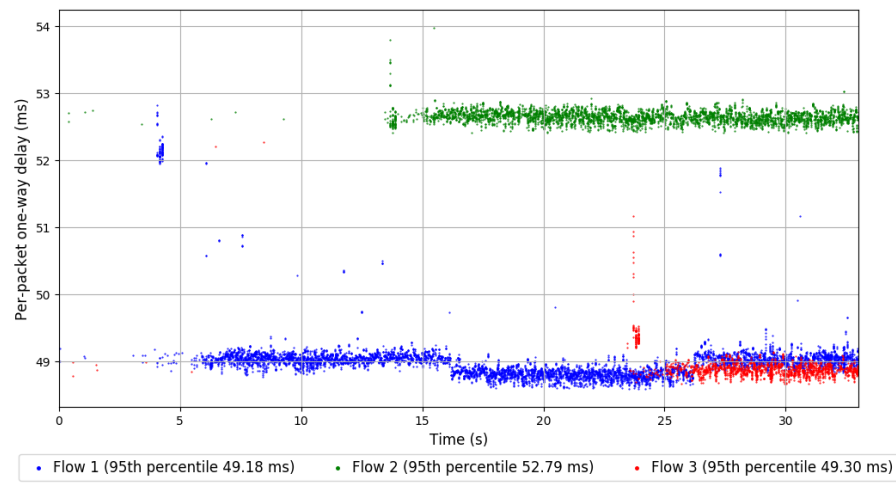
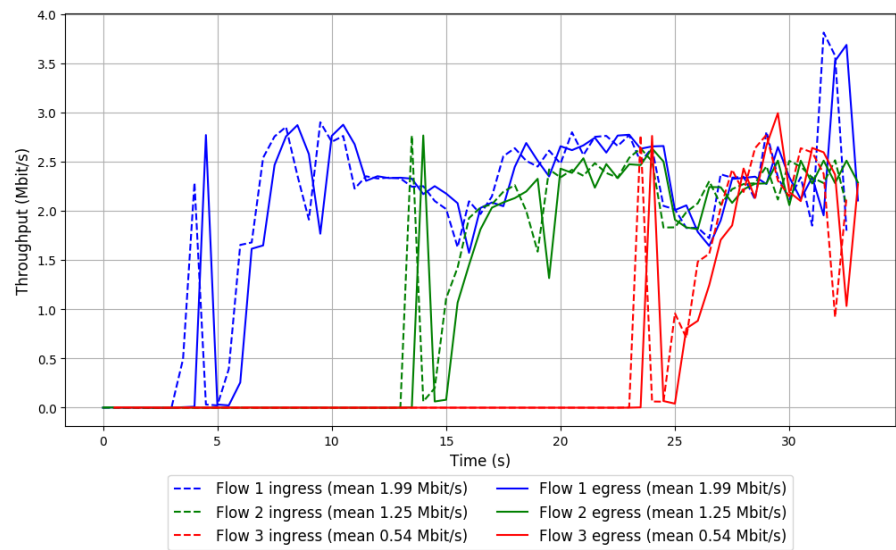
Run 9: Statistics of WebRTC media

Start at: 2018-07-20 10:38:24  
End at: 2018-07-20 10:38:54  
Local clock offset: -0.13 ms  
Remote clock offset: -1.374 ms

# Below is generated by plot.py at 2018-07-20 14:18:15  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 3.76 Mbit/s  
95th percentile per-packet one-way delay: 52.735 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 1.99 Mbit/s  
95th percentile per-packet one-way delay: 49.183 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 1.25 Mbit/s  
95th percentile per-packet one-way delay: 52.786 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.54 Mbit/s  
95th percentile per-packet one-way delay: 49.304 ms  
Loss rate: 0.00%



Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-07-20 11:03:08

End at: 2018-07-20 11:03:38

Local clock offset: 0.028 ms

Remote clock offset: 0.162 ms

# Below is generated by plot.py at 2018-07-20 14:18:15

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.77 Mbit/s

95th percentile per-packet one-way delay: 54.021 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.02 Mbit/s

95th percentile per-packet one-way delay: 54.050 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.25 Mbit/s

95th percentile per-packet one-way delay: 53.485 ms

Loss rate: 0.00%

-- Flow 3:

Average throughput: 0.52 Mbit/s

95th percentile per-packet one-way delay: 53.522 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

