

## Pantheon Report

Generated at 2018-07-10 08:32:39 (UTC).

Data path: AWS California 2 Ethernet (*local*) → Mexico 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.

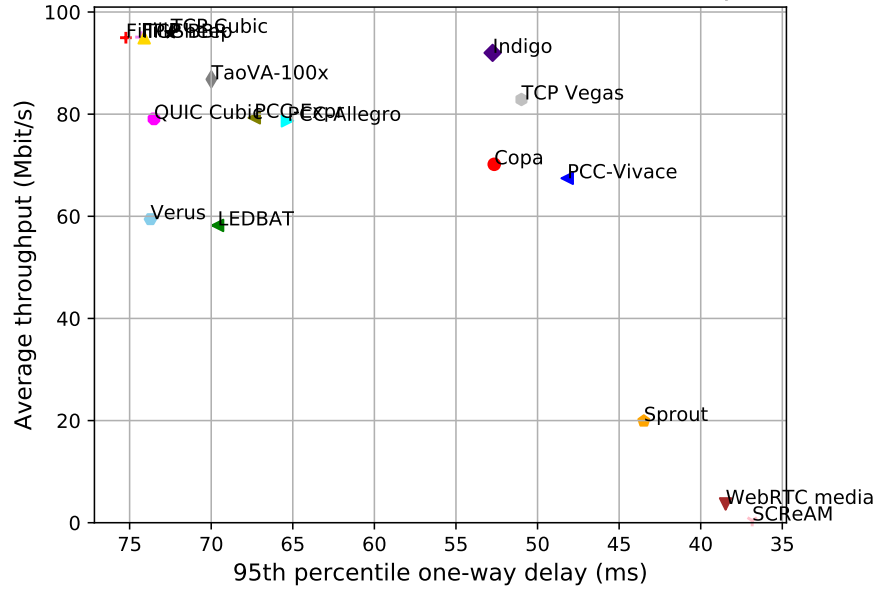
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

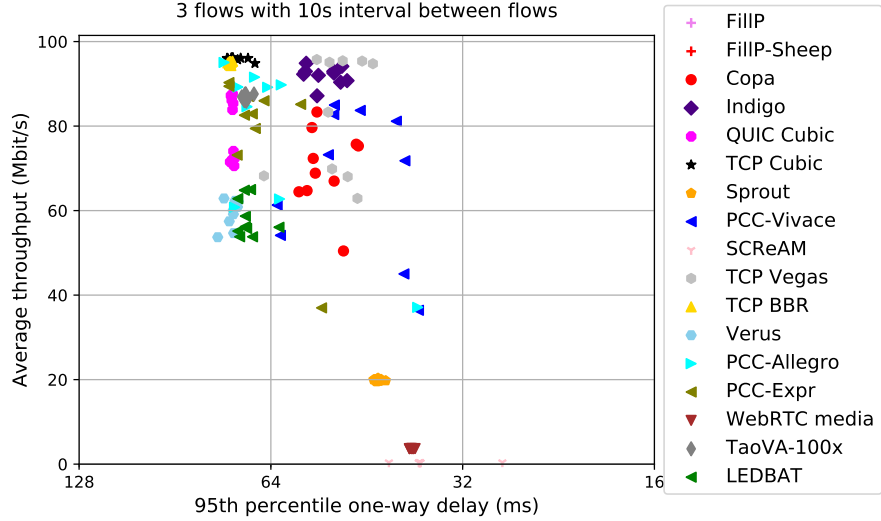
Git summary:

```
branch: master @ 9250dbeec7fb57193cdff1ba8c440b4e16ab30f0
third_party/fillp @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/fillp-sheep @ 37162fe9af85249aeccac061c93e75640ef710b5
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf90c077e64d
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-quirk @ 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 AWS California 2 to Mexico, 10 runs of 30s each per scheme  
 3 flows with 10s interval between flows (mean of all runs by scheme)



test from AWS California 2 to Mexico, 10 runs of 30s each per scheme  
 3 flows with 10s interval between flows





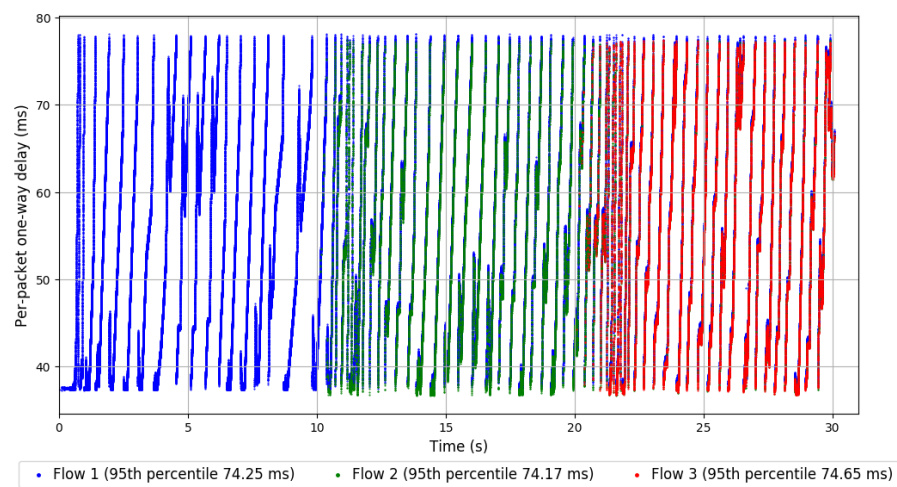
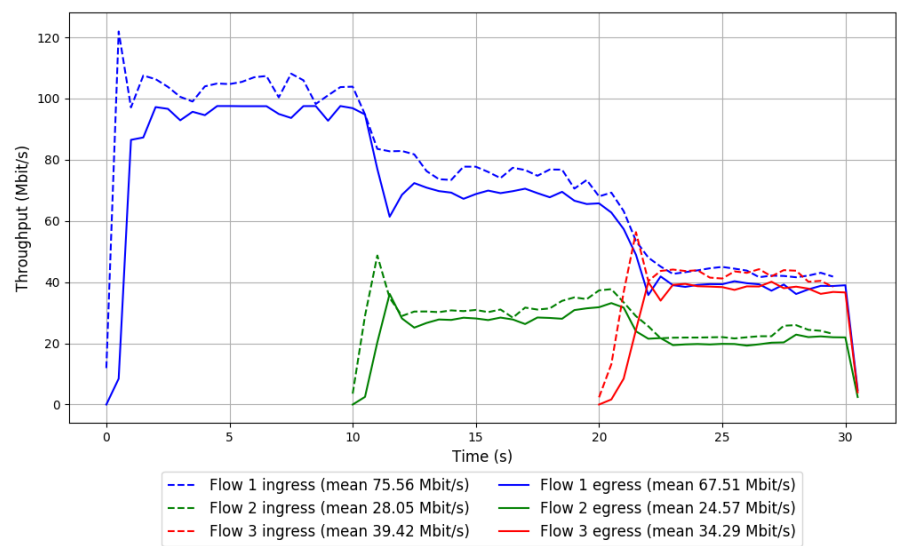
| scheme       | # runs | mean avg tput (Mbit/s) |        |        | mean 95th-%ile delay (ms) |        |        | mean loss rate (%) |        |        |
|--------------|--------|------------------------|--------|--------|---------------------------|--------|--------|--------------------|--------|--------|
|              |        | flow 1                 | flow 2 | flow 3 | flow 1                    | flow 2 | flow 3 | flow 1             | flow 2 | flow 3 |
| TCP BBR      | 10     | 63.19                  | 33.55  | 28.66  | 73.89                     | 74.48  | 74.35  | 9.42               | 11.08  | 11.95  |
| Copa         | 10     | 43.11                  | 28.15  | 25.03  | 54.80                     | 51.13  | 50.34  | 0.70               | 0.28   | 0.11   |
| TCP Cubic    | 10     | 72.97                  | 23.94  | 21.14  | 72.53                     | 72.23  | 70.90  | 0.75               | 0.65   | 0.78   |
| FillP        | 10     | 60.28                  | 38.06  | 28.79  | 73.84                     | 74.79  | 75.09  | 21.68              | 32.34  | 34.60  |
| FillP-Sheep  | 10     | 58.96                  | 38.02  | 32.37  | 75.24                     | 75.13  | 75.51  | 16.01              | 27.42  | 31.88  |
| Indigo       | 10     | 63.87                  | 29.33  | 26.58  | 49.38                     | 54.95  | 58.43  | 0.08               | 0.15   | 0.11   |
| LEDBAT       | 10     | 39.73                  | 20.53  | 14.52  | 69.42                     | 66.77  | 56.47  | 0.18               | 0.20   | 0.16   |
| PCC-Allegro  | 10     | 64.04                  | 16.97  | 10.24  | 64.76                     | 66.25  | 65.15  | 3.67               | 3.52   | 3.91   |
| PCC-Expr     | 10     | 58.53                  | 25.64  | 11.22  | 66.91                     | 67.81  | 70.00  | 3.48               | 3.96   | 3.40   |
| QUIC Cubic   | 10     | 59.57                  | 19.42  | 20.11  | 73.60                     | 73.18  | 73.28  | 3.14               | 1.40   | 1.96   |
| SCReAM       | 10     | 0.22                   | 0.22   | 0.22   | 36.57                     | 36.58  | 36.81  | 0.00               | 0.02   | 0.04   |
| Sprout       | 10     | 10.14                  | 9.90   | 9.67   | 43.33                     | 43.33  | 43.89  | 0.00               | 0.00   | 0.00   |
| TaoVA-100x   | 10     | 51.55                  | 37.89  | 30.24  | 67.24                     | 71.22  | 72.90  | 11.73              | 21.44  | 19.50  |
| TCP Vegas    | 10     | 51.31                  | 40.35  | 14.10  | 49.45                     | 51.79  | 49.55  | 0.20               | 0.17   | 0.00   |
| Verus        | 10     | 38.66                  | 24.96  | 15.27  | 73.37                     | 74.35  | 71.63  | 43.01              | 43.48  | 32.72  |
| PCC-Vivace   | 10     | 52.06                  | 18.43  | 9.47   | 47.25                     | 49.66  | 50.10  | 0.01               | 0.05   | 0.06   |
| WebRTC media | 10     | 1.97                   | 1.27   | 0.45   | 37.85                     | 38.67  | 39.60  | 0.00               | 0.02   | 0.00   |

Run 1: Statistics of TCP BBR

Start at: 2018-07-10 03:39:28  
End at: 2018-07-10 03:39:58  
Local clock offset: 0.521 ms  
Remote clock offset: -0.055 ms

# Below is generated by plot.py at 2018-07-10 08:09:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.29 Mbit/s  
95th percentile per-packet one-way delay: 74.308 ms  
Loss rate: 11.15%  
-- Flow 1:  
Average throughput: 67.51 Mbit/s  
95th percentile per-packet one-way delay: 74.254 ms  
Loss rate: 10.57%  
-- Flow 2:  
Average throughput: 24.57 Mbit/s  
95th percentile per-packet one-way delay: 74.170 ms  
Loss rate: 12.32%  
-- Flow 3:  
Average throughput: 34.29 Mbit/s  
95th percentile per-packet one-way delay: 74.653 ms  
Loss rate: 12.82%

Run 1: Report of TCP BBR — Data Link

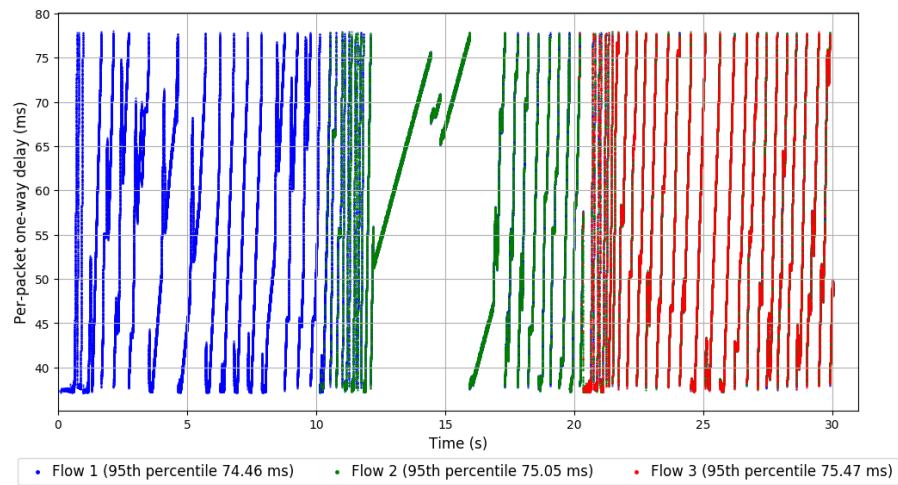
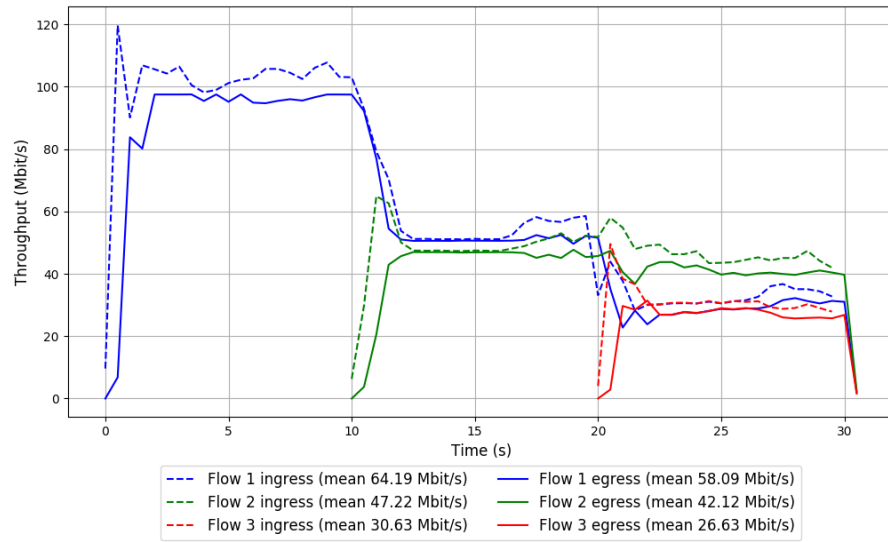


Run 2: Statistics of TCP BBR

Start at: 2018-07-10 04:08:41  
End at: 2018-07-10 04:09:11  
Local clock offset: 0.53 ms  
Remote clock offset: -1.574 ms

# Below is generated by plot.py at 2018-07-10 08:09:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.95 Mbit/s  
95th percentile per-packet one-way delay: 74.756 ms  
Loss rate: 10.24%  
-- Flow 1:  
Average throughput: 58.09 Mbit/s  
95th percentile per-packet one-way delay: 74.457 ms  
Loss rate: 9.47%  
-- Flow 2:  
Average throughput: 42.12 Mbit/s  
95th percentile per-packet one-way delay: 75.051 ms  
Loss rate: 10.86%  
-- Flow 3:  
Average throughput: 26.63 Mbit/s  
95th percentile per-packet one-way delay: 75.469 ms  
Loss rate: 13.18%

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



Run 3: Statistics of TCP BBR

Start at: 2018-07-10 04:37:03

End at: 2018-07-10 04:37:33

Local clock offset: 0.398 ms

Remote clock offset: 2.059 ms

# Below is generated by plot.py at 2018-07-10 08:09:33

# Datalink statistics

-- Total of 3 flows:

Average throughput: 94.54 Mbit/s

95th percentile per-packet one-way delay: 74.283 ms

Loss rate: 10.54%

-- Flow 1:

Average throughput: 65.13 Mbit/s

95th percentile per-packet one-way delay: 74.098 ms

Loss rate: 9.98%

-- Flow 2:

Average throughput: 34.53 Mbit/s

95th percentile per-packet one-way delay: 74.791 ms

Loss rate: 11.88%

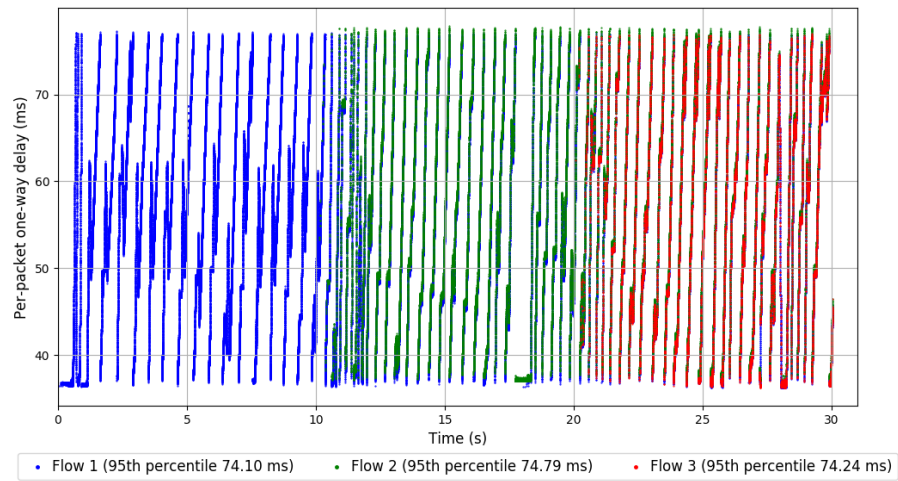
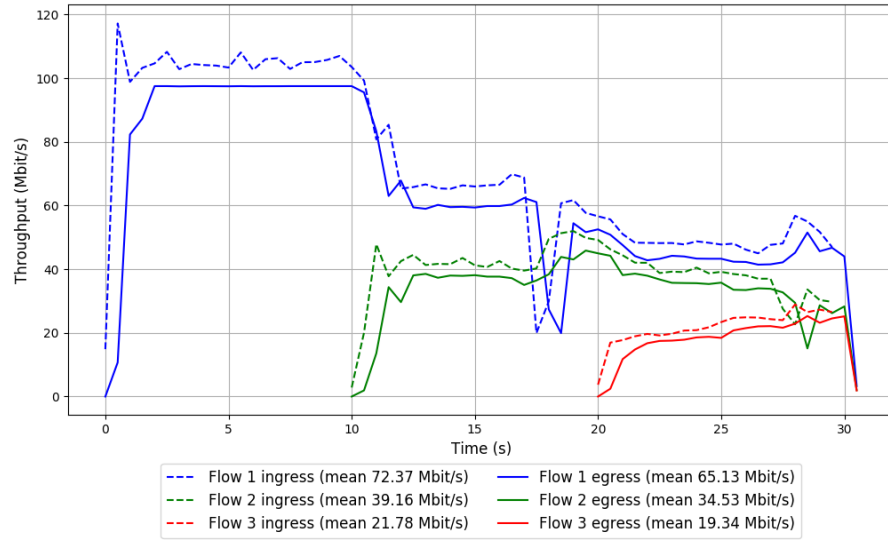
-- Flow 3:

Average throughput: 19.34 Mbit/s

95th percentile per-packet one-way delay: 74.238 ms

Loss rate: 11.32%

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



Run 4: Statistics of TCP BBR

Start at: 2018-07-10 05:04:57

End at: 2018-07-10 05:05:27

Local clock offset: 0.279 ms

Remote clock offset: 6.096 ms

# Below is generated by plot.py at 2018-07-10 08:09:33

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.06 Mbit/s

95th percentile per-packet one-way delay: 73.919 ms

Loss rate: 10.37%

-- Flow 1:

Average throughput: 55.45 Mbit/s

95th percentile per-packet one-way delay: 73.626 ms

Loss rate: 9.37%

-- Flow 2:

Average throughput: 38.69 Mbit/s

95th percentile per-packet one-way delay: 74.282 ms

Loss rate: 10.45%

-- Flow 3:

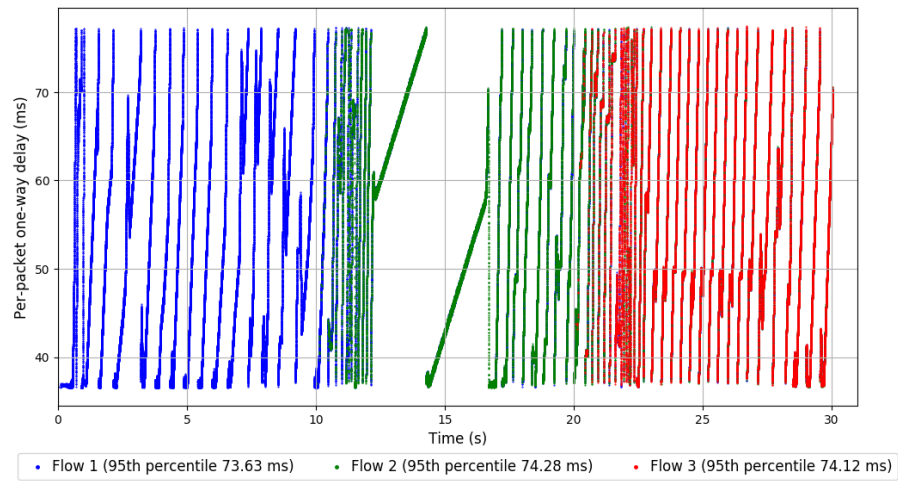
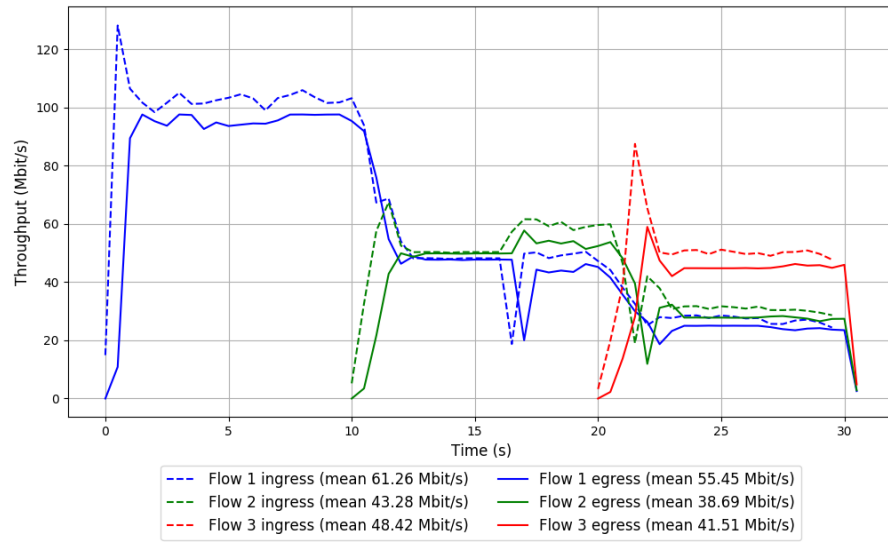
Average throughput: 41.51 Mbit/s

95th percentile per-packet one-way delay: 74.122 ms

Loss rate: 14.05%



# Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-07-10 05:32:40

End at: 2018-07-10 05:33:10

Local clock offset: -0.045 ms

Remote clock offset: 5.109 ms

# Below is generated by plot.py at 2018-07-10 08:09:33

# Datalink statistics

-- Total of 3 flows:

Average throughput: 94.33 Mbit/s

95th percentile per-packet one-way delay: 73.973 ms

Loss rate: 10.83%

-- Flow 1:

Average throughput: 60.69 Mbit/s

95th percentile per-packet one-way delay: 74.093 ms

Loss rate: 10.41%

-- Flow 2:

Average throughput: 42.30 Mbit/s

95th percentile per-packet one-way delay: 73.658 ms

Loss rate: 11.59%

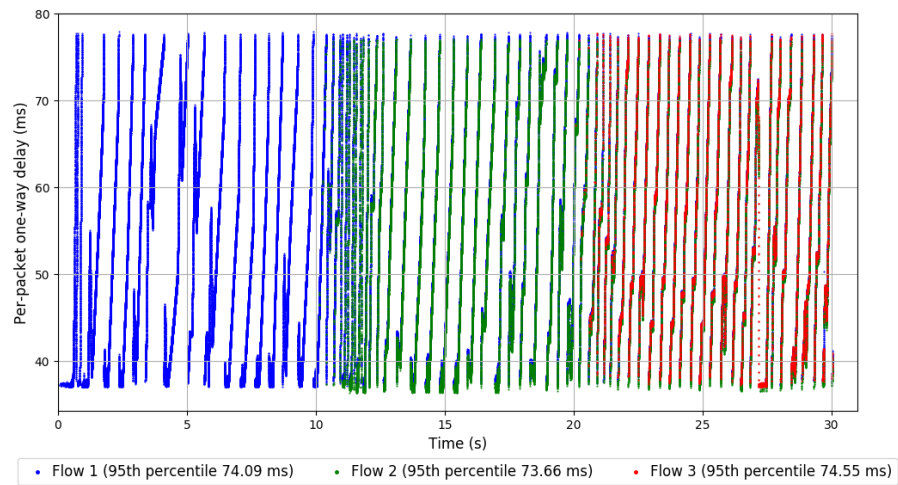
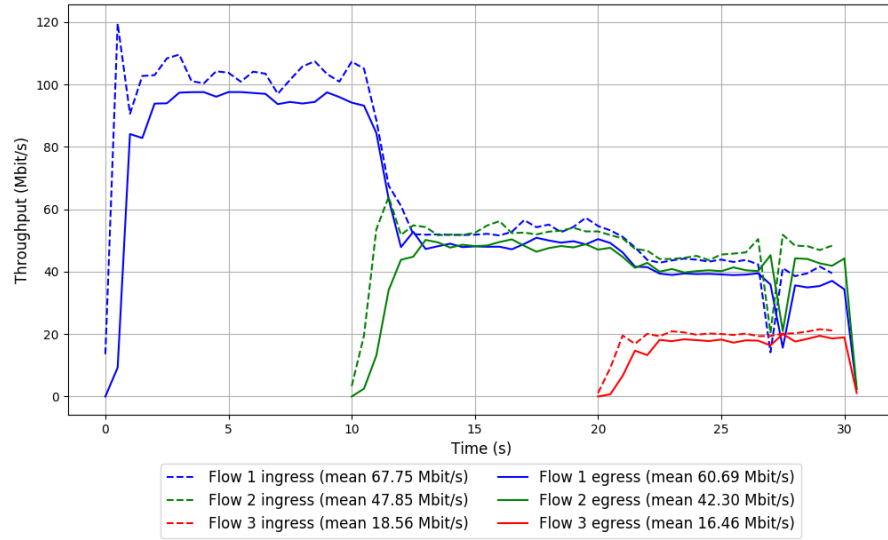
-- Flow 3:

Average throughput: 16.46 Mbit/s

95th percentile per-packet one-way delay: 74.546 ms

Loss rate: 11.55%

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



Run 6: Statistics of TCP BBR

Start at: 2018-07-10 05:59:27

End at: 2018-07-10 05:59:57

Local clock offset: -0.262 ms

Remote clock offset: 1.176 ms

# Below is generated by plot.py at 2018-07-10 08:09:33

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.27 Mbit/s

95th percentile per-packet one-way delay: 74.031 ms

Loss rate: 10.32%

-- Flow 1:

Average throughput: 60.60 Mbit/s

95th percentile per-packet one-way delay: 73.584 ms

Loss rate: 9.56%

-- Flow 2:

Average throughput: 38.83 Mbit/s

95th percentile per-packet one-way delay: 74.789 ms

Loss rate: 11.32%

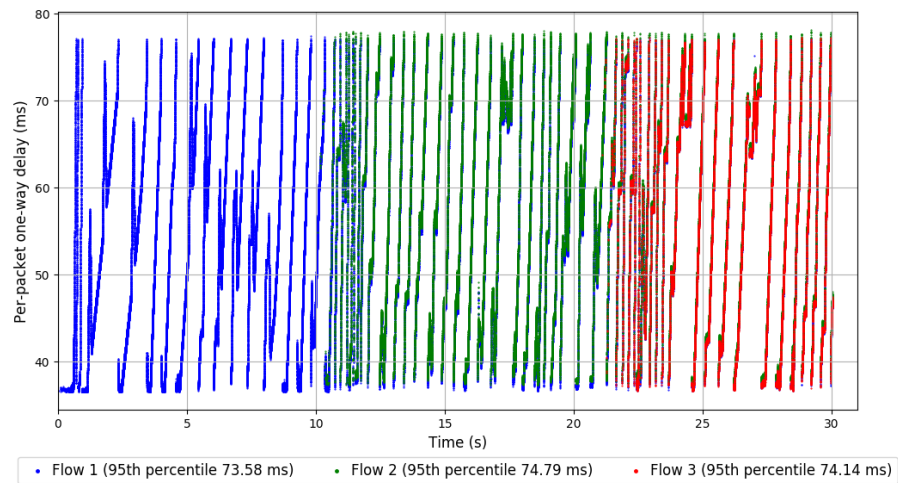
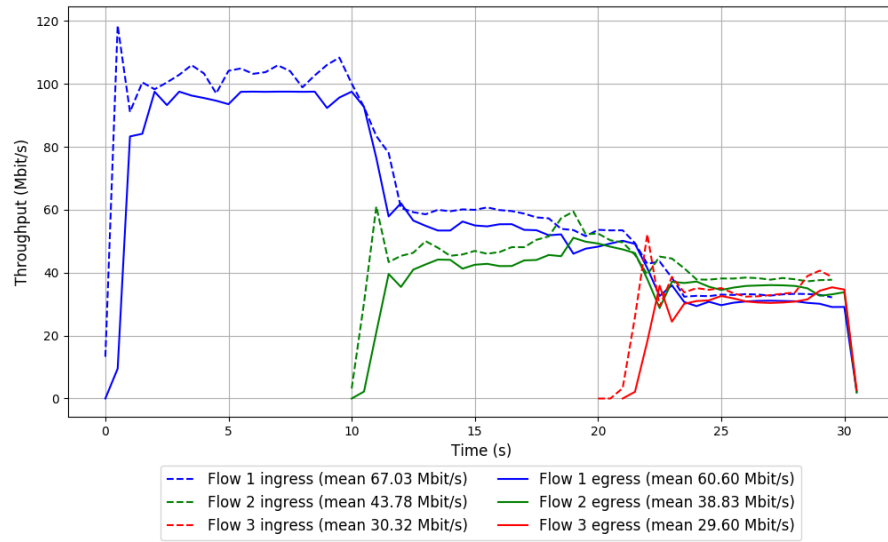
-- Flow 3:

Average throughput: 29.60 Mbit/s

95th percentile per-packet one-way delay: 74.144 ms

Loss rate: 12.51%

# Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-07-10 06:25:51

End at: 2018-07-10 06:26:21

Local clock offset: -0.21 ms

Remote clock offset: 3.784 ms

# Below is generated by plot.py at 2018-07-10 08:09:33

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.32 Mbit/s

95th percentile per-packet one-way delay: 73.510 ms

Loss rate: 11.08%

-- Flow 1:

Average throughput: 66.12 Mbit/s

95th percentile per-packet one-way delay: 73.182 ms

Loss rate: 10.36%

-- Flow 2:

Average throughput: 25.24 Mbit/s

95th percentile per-packet one-way delay: 74.552 ms

Loss rate: 12.67%

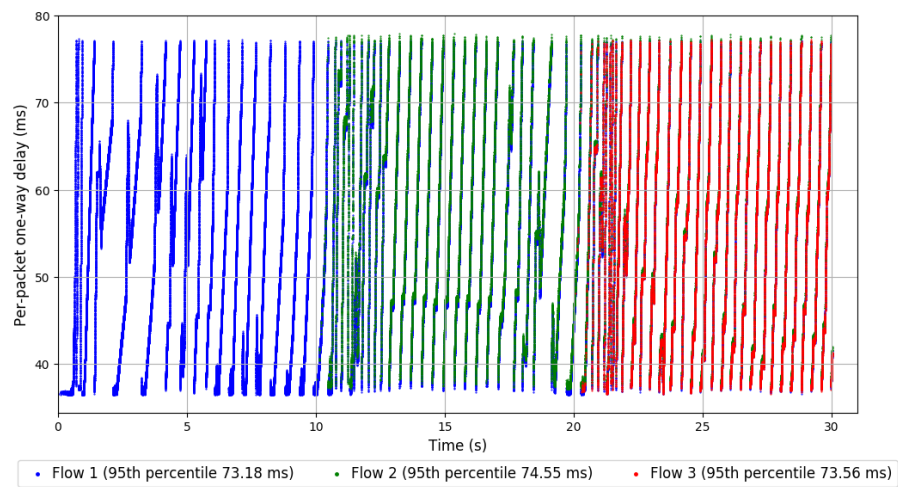
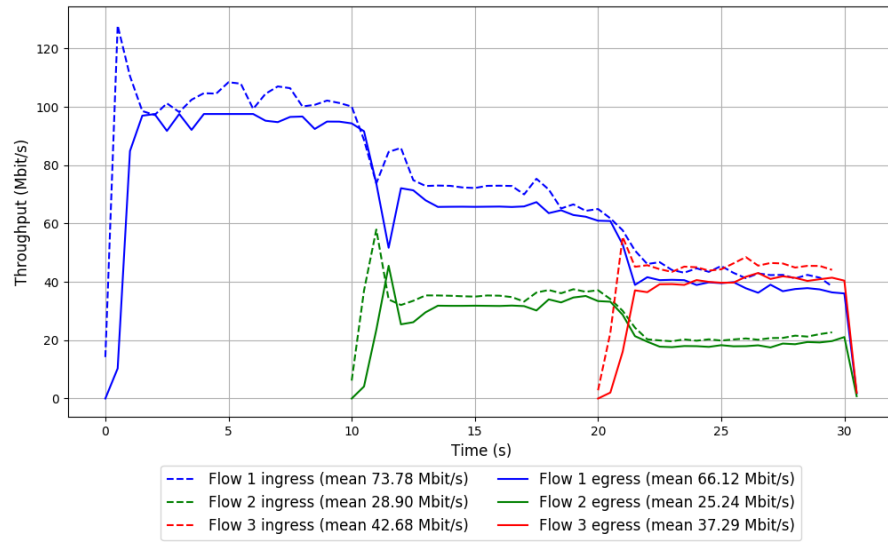
-- Flow 3:

Average throughput: 37.29 Mbit/s

95th percentile per-packet one-way delay: 73.557 ms

Loss rate: 12.67%

# Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-07-10 06:51:12

End at: 2018-07-10 06:51:42

Local clock offset: 0.115 ms

Remote clock offset: 4.324 ms

# Below is generated by plot.py at 2018-07-10 08:09:33

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.11 Mbit/s

95th percentile per-packet one-way delay: 73.908 ms

Loss rate: 8.17%

-- Flow 1:

Average throughput: 68.04 Mbit/s

95th percentile per-packet one-way delay: 73.638 ms

Loss rate: 7.43%

-- Flow 2:

Average throughput: 30.75 Mbit/s

95th percentile per-packet one-way delay: 74.264 ms

Loss rate: 9.53%

-- Flow 3:

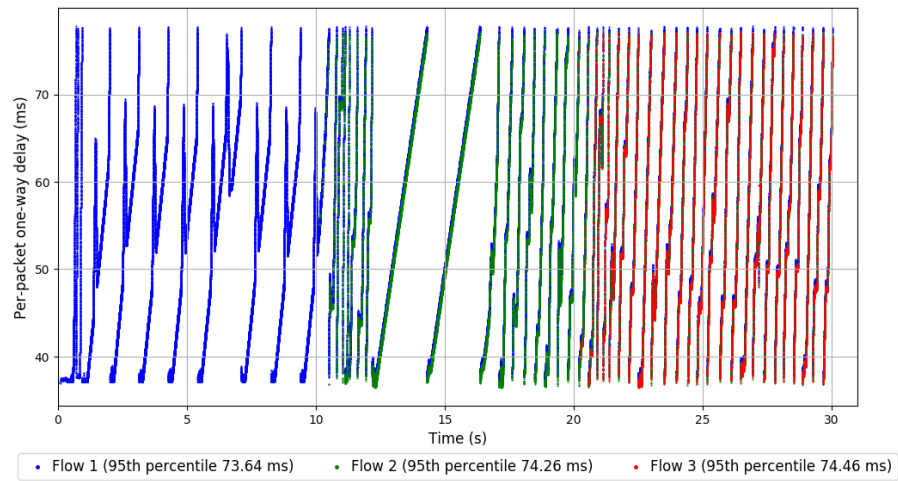
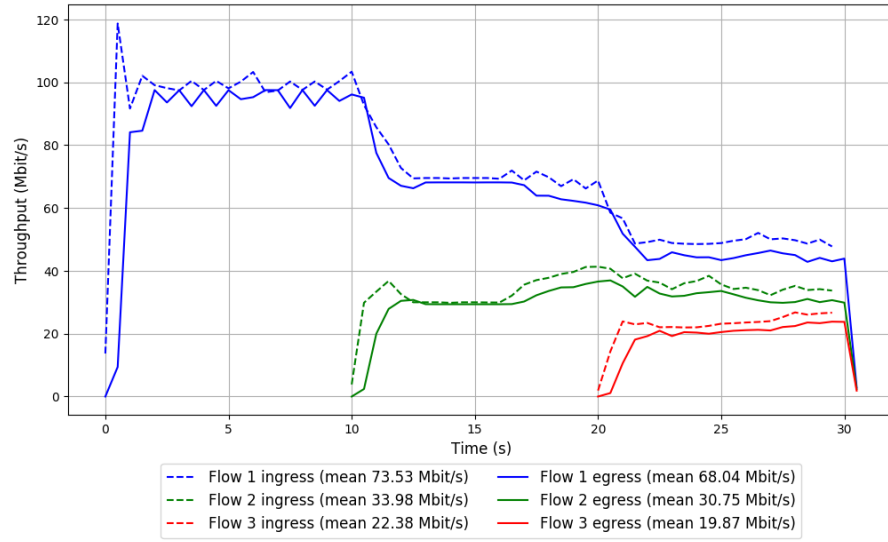
Average throughput: 19.87 Mbit/s

95th percentile per-packet one-way delay: 74.458 ms

Loss rate: 11.32%



# Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-07-10 07:15:53

End at: 2018-07-10 07:16:23

Local clock offset: 0.223 ms

Remote clock offset: 3.936 ms

# Below is generated by plot.py at 2018-07-10 08:10:39

# Datalink statistics

-- Total of 3 flows:

Average throughput: 94.65 Mbit/s

95th percentile per-packet one-way delay: 74.081 ms

Loss rate: 9.43%

-- Flow 1:

Average throughput: 69.05 Mbit/s

95th percentile per-packet one-way delay: 74.010 ms

Loss rate: 8.81%

-- Flow 2:

Average throughput: 24.61 Mbit/s

95th percentile per-packet one-way delay: 74.212 ms

Loss rate: 11.21%

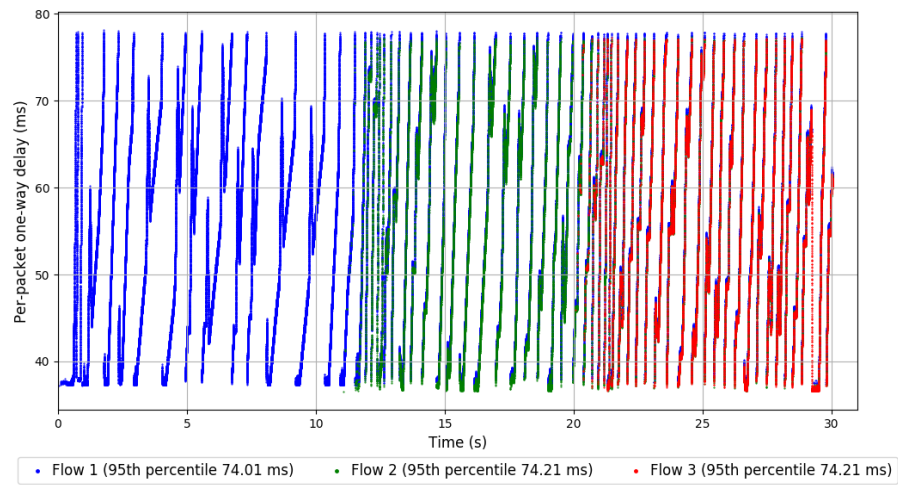
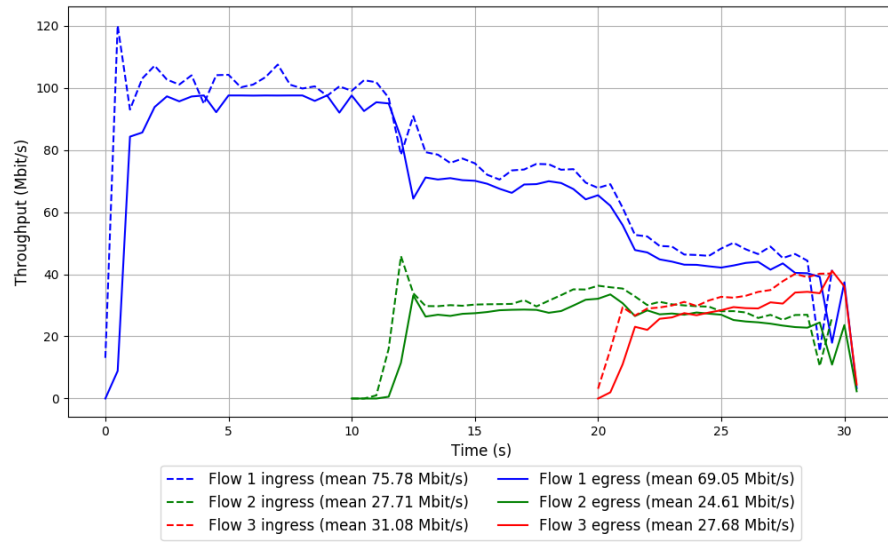
-- Flow 3:

Average throughput: 27.68 Mbit/s

95th percentile per-packet one-way delay: 74.207 ms

Loss rate: 10.81%

# Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-07-10 07:41:32

End at: 2018-07-10 07:42:02

Local clock offset: 0.106 ms

Remote clock offset: 4.246 ms

# Below is generated by plot.py at 2018-07-10 08:10:40

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.03 Mbit/s

95th percentile per-packet one-way delay: 74.289 ms

Loss rate: 8.54%

-- Flow 1:

Average throughput: 61.22 Mbit/s

95th percentile per-packet one-way delay: 73.928 ms

Loss rate: 8.26%

-- Flow 2:

Average throughput: 33.84 Mbit/s

95th percentile per-packet one-way delay: 75.009 ms

Loss rate: 8.94%

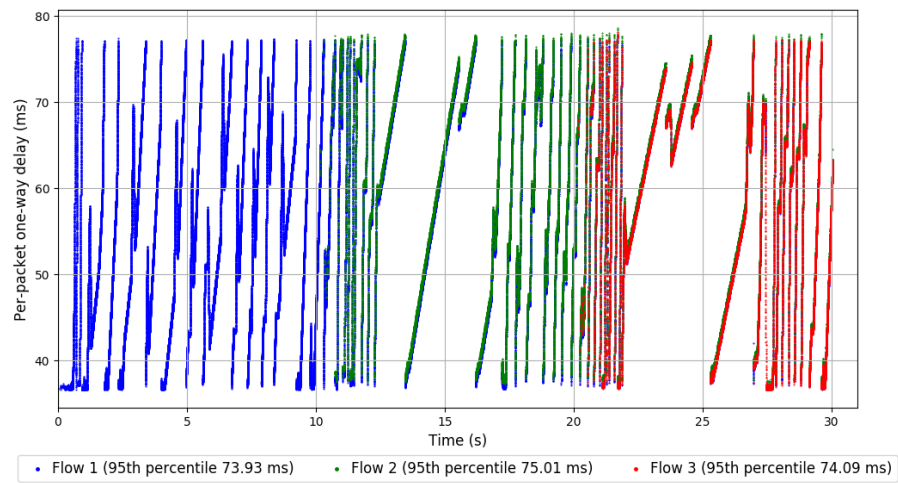
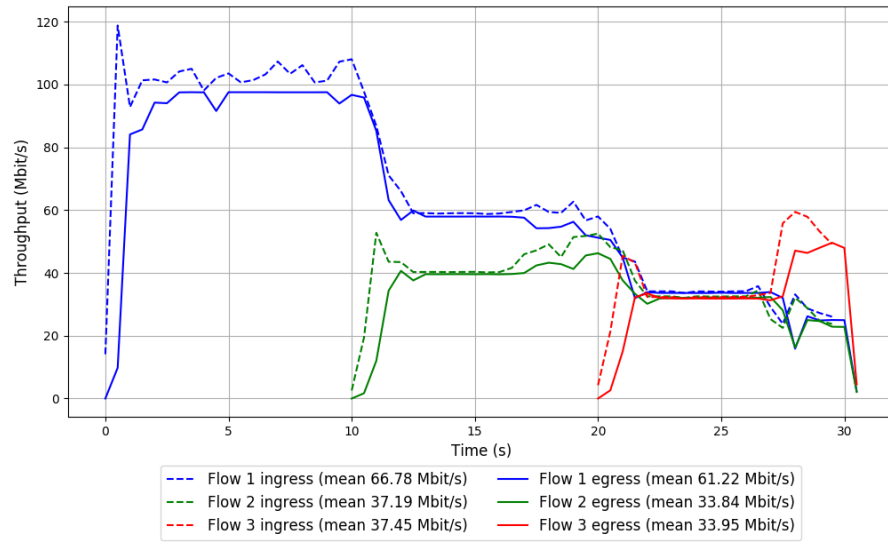
-- Flow 3:

Average throughput: 33.95 Mbit/s

95th percentile per-packet one-way delay: 74.092 ms

Loss rate: 9.26%

# Run 10: Report of TCP BBR — Data Link

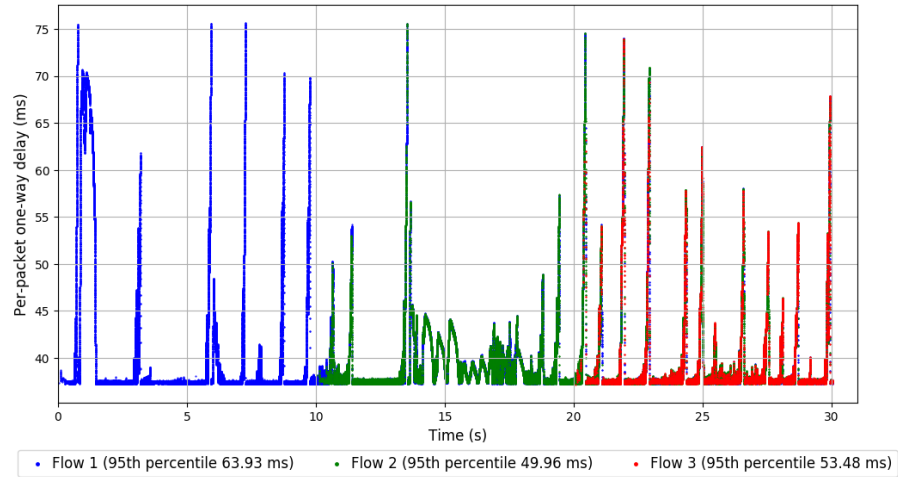
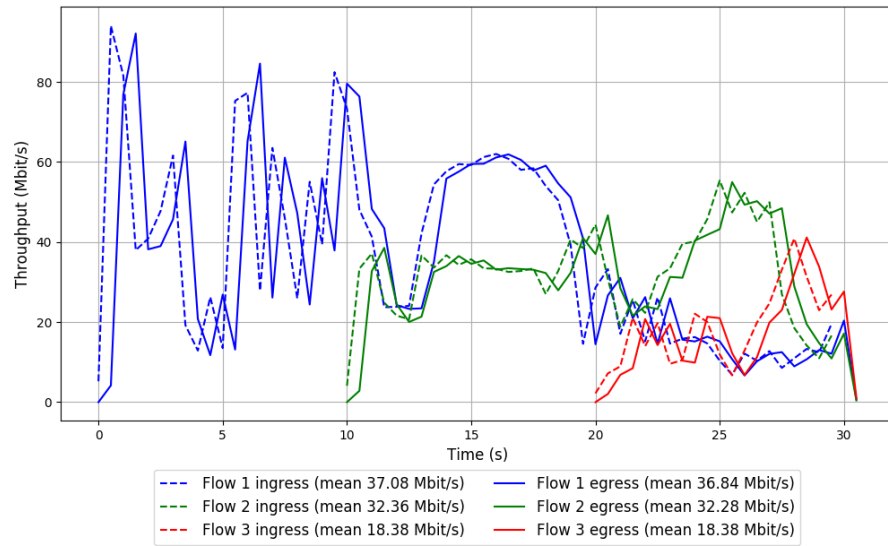


Run 1: Statistics of Copa

Start at: 2018-07-10 03:49:33  
End at: 2018-07-10 03:50:03  
Local clock offset: 0.587 ms  
Remote clock offset: -0.749 ms

# Below is generated by plot.py at 2018-07-10 08:11:00  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 64.45 Mbit/s  
95th percentile per-packet one-way delay: 57.826 ms  
Loss rate: 0.45%  
-- Flow 1:  
Average throughput: 36.84 Mbit/s  
95th percentile per-packet one-way delay: 63.932 ms  
Loss rate: 0.65%  
-- Flow 2:  
Average throughput: 32.28 Mbit/s  
95th percentile per-packet one-way delay: 49.964 ms  
Loss rate: 0.22%  
-- Flow 3:  
Average throughput: 18.38 Mbit/s  
95th percentile per-packet one-way delay: 53.485 ms  
Loss rate: 0.01%

## Run 1: Report of Copa — Data Link



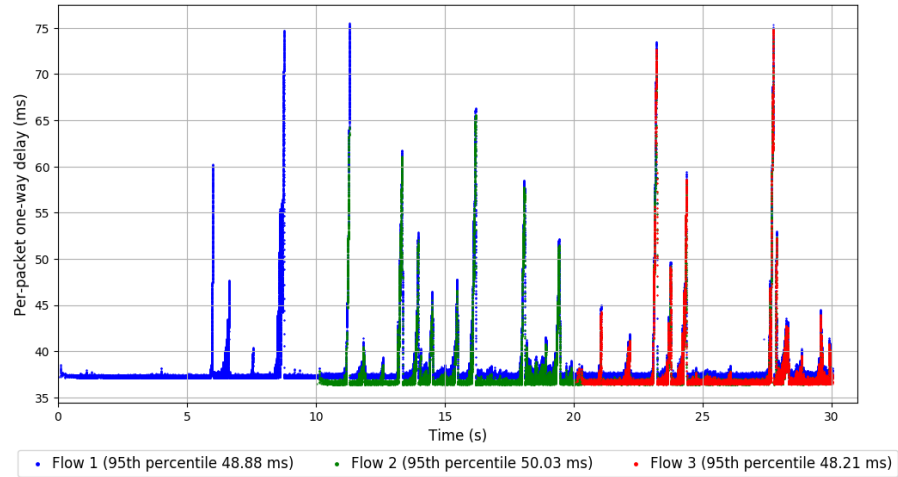
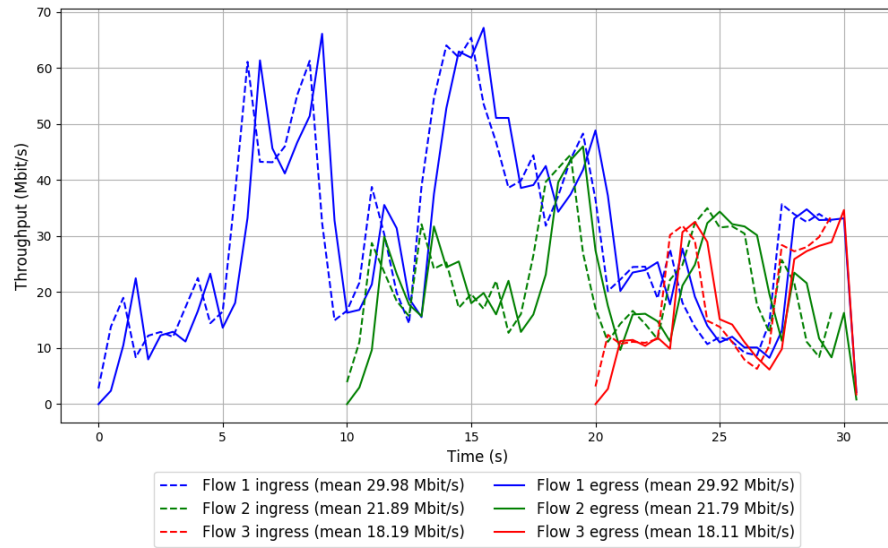
Run 2: Statistics of Copa

Start at: 2018-07-10 04:18:48  
End at: 2018-07-10 04:19:18  
Local clock offset: 0.503 ms  
Remote clock offset: -2.007 ms

# Below is generated by plot.py at 2018-07-10 08:11:00  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 50.45 Mbit/s  
95th percentile per-packet one-way delay: 49.226 ms  
Loss rate: 0.30%  
-- Flow 1:  
Average throughput: 29.92 Mbit/s  
95th percentile per-packet one-way delay: 48.879 ms  
Loss rate: 0.19%  
-- Flow 2:  
Average throughput: 21.79 Mbit/s  
95th percentile per-packet one-way delay: 50.030 ms  
Loss rate: 0.44%  
-- Flow 3:  
Average throughput: 18.11 Mbit/s  
95th percentile per-packet one-way delay: 48.211 ms  
Loss rate: 0.46%



## Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-07-10 04:46:52

End at: 2018-07-10 04:47:22

Local clock offset: 0.272 ms

Remote clock offset: 4.417 ms

# Below is generated by plot.py at 2018-07-10 08:11:05

# Datalink statistics

-- Total of 3 flows:

Average throughput: 66.98 Mbit/s

95th percentile per-packet one-way delay: 50.920 ms

Loss rate: 0.19%

-- Flow 1:

Average throughput: 44.58 Mbit/s

95th percentile per-packet one-way delay: 50.283 ms

Loss rate: 0.23%

-- Flow 2:

Average throughput: 21.49 Mbit/s

95th percentile per-packet one-way delay: 50.621 ms

Loss rate: 0.15%

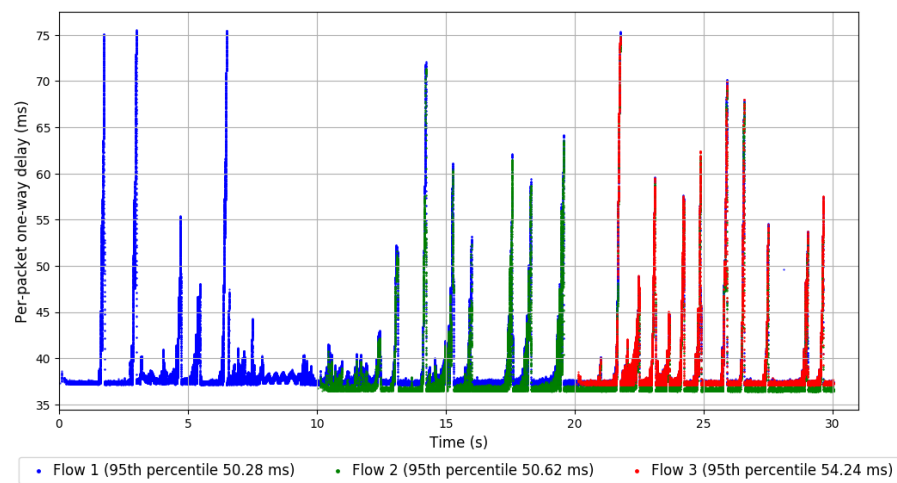
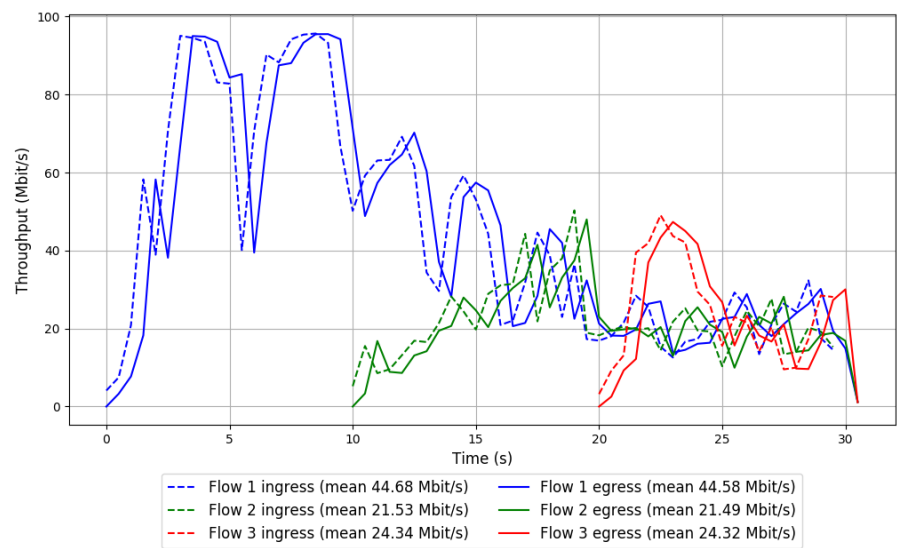
-- Flow 3:

Average throughput: 24.32 Mbit/s

95th percentile per-packet one-way delay: 54.240 ms

Loss rate: 0.06%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-07-10 05:14:42

End at: 2018-07-10 05:15:12

Local clock offset: 0.166 ms

Remote clock offset: 5.032 ms

# Below is generated by plot.py at 2018-07-10 08:11:05

# Datalink statistics

-- Total of 3 flows:

Average throughput: 64.73 Mbit/s

95th percentile per-packet one-way delay: 56.152 ms

Loss rate: 0.28%

-- Flow 1:

Average throughput: 40.53 Mbit/s

95th percentile per-packet one-way delay: 53.380 ms

Loss rate: 0.30%

-- Flow 2:

Average throughput: 27.27 Mbit/s

95th percentile per-packet one-way delay: 61.475 ms

Loss rate: 0.32%

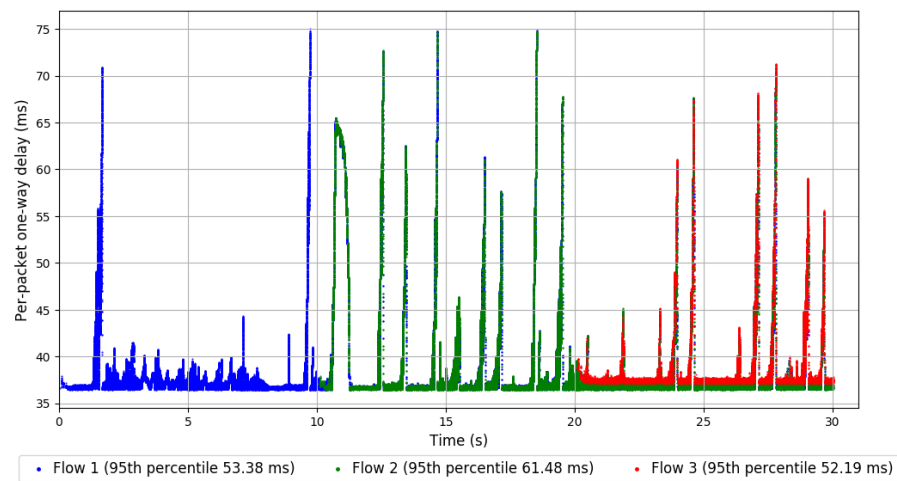
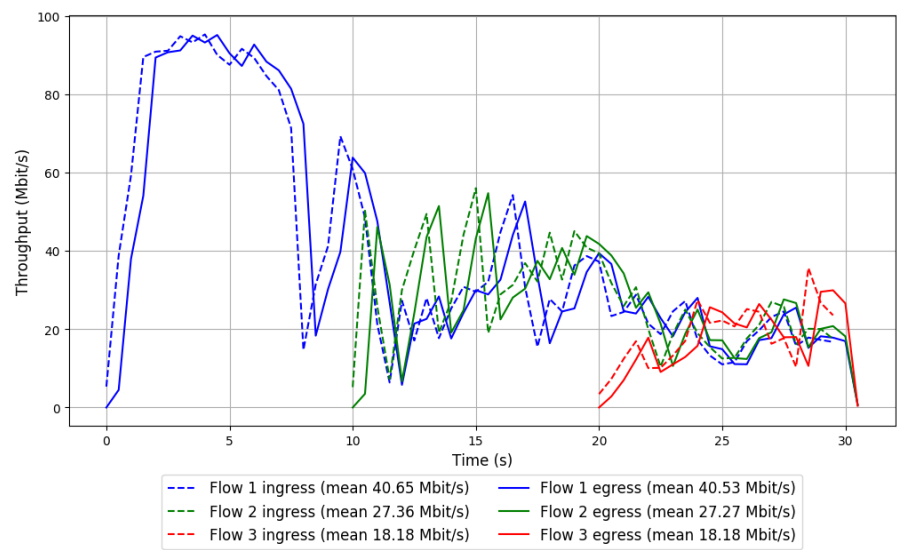
-- Flow 3:

Average throughput: 18.18 Mbit/s

95th percentile per-packet one-way delay: 52.191 ms

Loss rate: 0.01%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-07-10 05:42:09

End at: 2018-07-10 05:42:39

Local clock offset: -0.148 ms

Remote clock offset: 3.434 ms

# Below is generated by plot.py at 2018-07-10 08:11:13

# Datalink statistics

-- Total of 3 flows:

Average throughput: 72.35 Mbit/s

95th percentile per-packet one-way delay: 54.913 ms

Loss rate: 0.42%

-- Flow 1:

Average throughput: 48.49 Mbit/s

95th percentile per-packet one-way delay: 58.851 ms

Loss rate: 0.48%

-- Flow 2:

Average throughput: 22.98 Mbit/s

95th percentile per-packet one-way delay: 50.582 ms

Loss rate: 0.35%

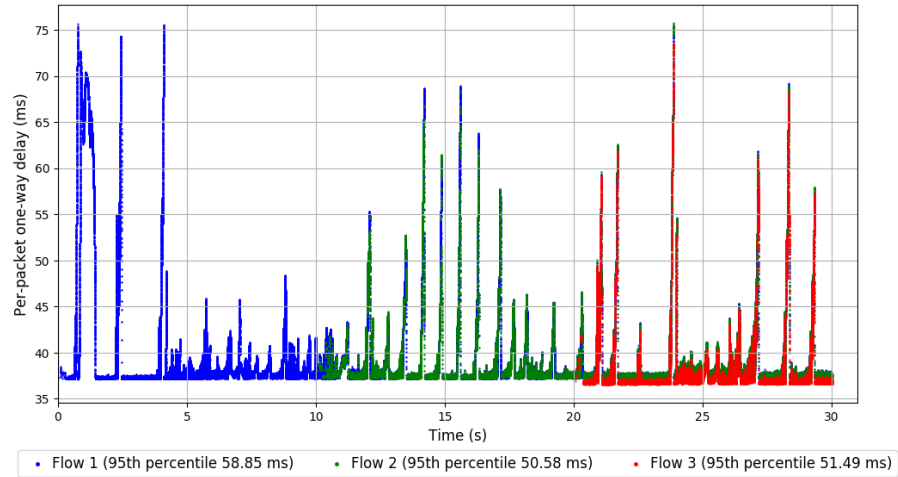
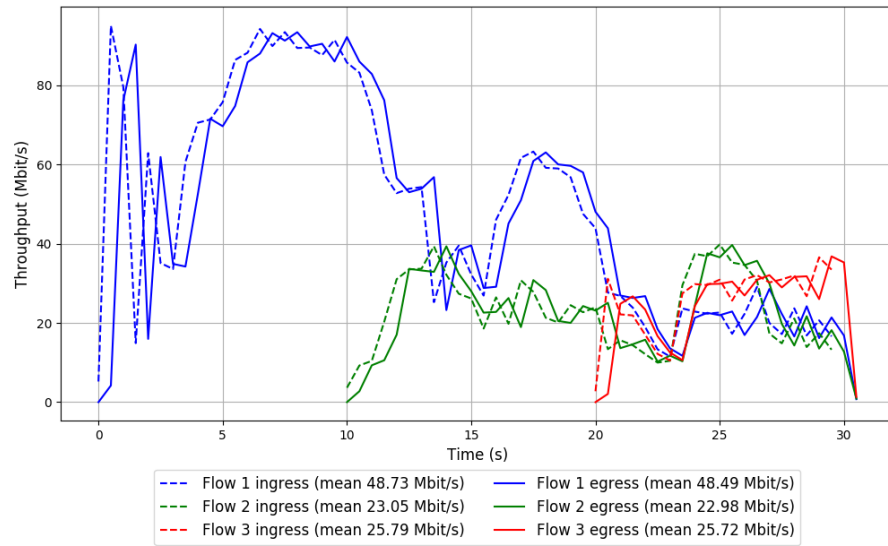
-- Flow 3:

Average throughput: 25.72 Mbit/s

95th percentile per-packet one-way delay: 51.491 ms

Loss rate: 0.25%

## Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-07-10 06:08:49

End at: 2018-07-10 06:09:19

Local clock offset: -0.328 ms

Remote clock offset: 0.806 ms

# Below is generated by plot.py at 2018-07-10 08:11:18

# Datalink statistics

-- Total of 3 flows:

Average throughput: 75.29 Mbit/s

95th percentile per-packet one-way delay: 46.648 ms

Loss rate: 1.04%

-- Flow 1:

Average throughput: 25.50 Mbit/s

95th percentile per-packet one-way delay: 52.648 ms

Loss rate: 2.69%

-- Flow 2:

Average throughput: 67.76 Mbit/s

95th percentile per-packet one-way delay: 44.296 ms

Loss rate: 0.19%

-- Flow 3:

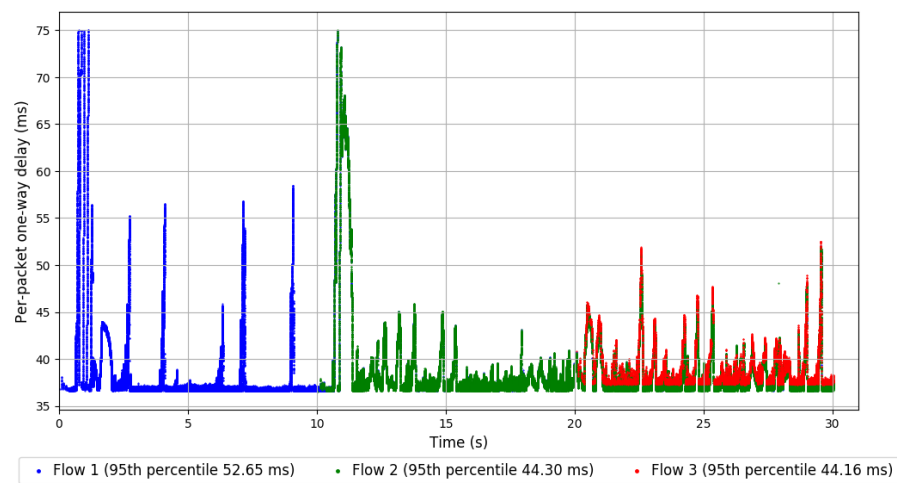
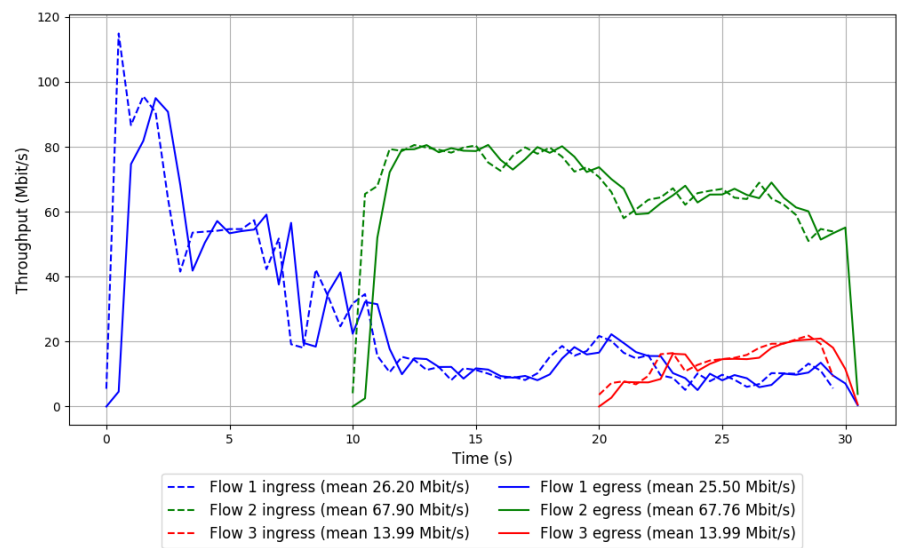
Average throughput: 13.99 Mbit/s

95th percentile per-packet one-way delay: 44.156 ms

Loss rate: 0.00%



Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-07-10 06:35:01

End at: 2018-07-10 06:35:31

Local clock offset: -0.136 ms

Remote clock offset: 4.688 ms

# Below is generated by plot.py at 2018-07-10 08:12:29

# Datalink statistics

-- Total of 3 flows:

Average throughput: 75.71 Mbit/s

95th percentile per-packet one-way delay: 47.009 ms

Loss rate: 0.41%

-- Flow 1:

Average throughput: 49.16 Mbit/s

95th percentile per-packet one-way delay: 48.292 ms

Loss rate: 0.41%

-- Flow 2:

Average throughput: 18.17 Mbit/s

95th percentile per-packet one-way delay: 47.167 ms

Loss rate: 0.55%

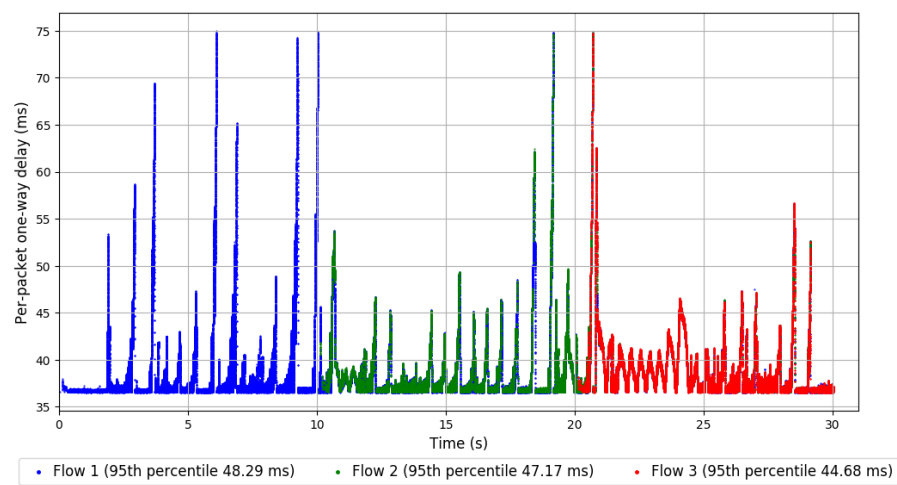
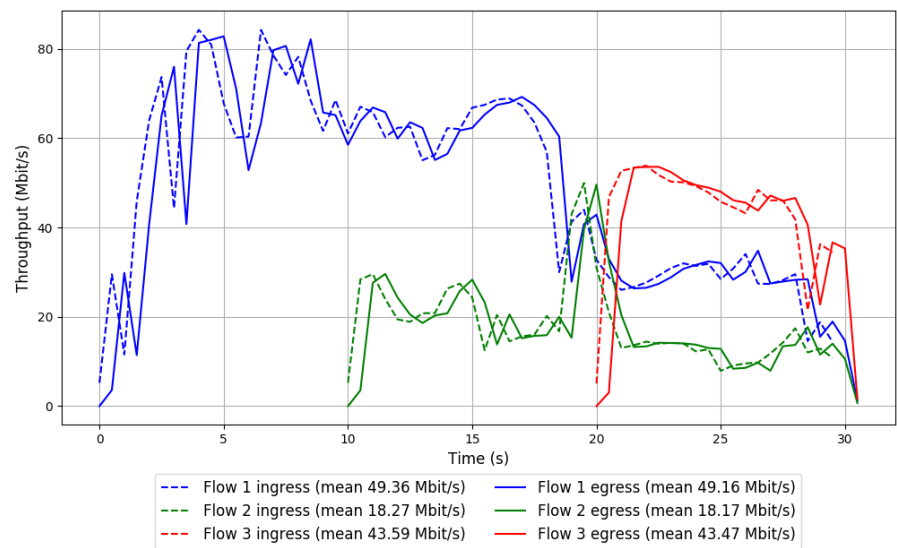
-- Flow 3:

Average throughput: 43.47 Mbit/s

95th percentile per-packet one-way delay: 44.680 ms

Loss rate: 0.30%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-07-10 06:59:25

End at: 2018-07-10 06:59:55

Local clock offset: 0.069 ms

Remote clock offset: 3.82 ms

# Below is generated by plot.py at 2018-07-10 08:12:41

# Datalink statistics

-- Total of 3 flows:

Average throughput: 83.33 Mbit/s

95th percentile per-packet one-way delay: 54.185 ms

Loss rate: 0.86%

-- Flow 1:

Average throughput: 68.81 Mbit/s

95th percentile per-packet one-way delay: 54.813 ms

Loss rate: 1.05%

-- Flow 2:

Average throughput: 13.20 Mbit/s

95th percentile per-packet one-way delay: 48.613 ms

Loss rate: 0.00%

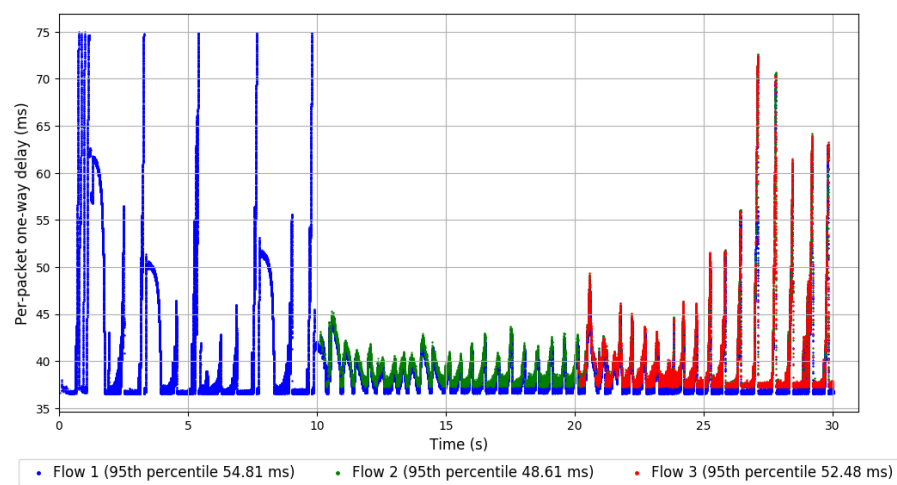
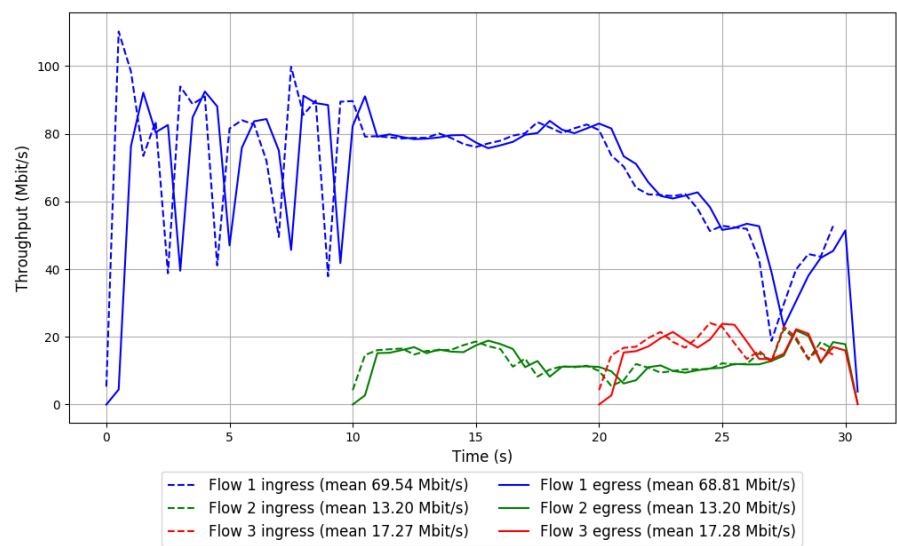
-- Flow 3:

Average throughput: 17.28 Mbit/s

95th percentile per-packet one-way delay: 52.485 ms

Loss rate: 0.00%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-07-10 07:24:34

End at: 2018-07-10 07:25:04

Local clock offset: 0.109 ms

Remote clock offset: 3.959 ms

# Below is generated by plot.py at 2018-07-10 08:12:41

# Datalink statistics

-- Total of 3 flows:

Average throughput: 68.86 Mbit/s

95th percentile per-packet one-way delay: 54.505 ms

Loss rate: 0.53%

-- Flow 1:

Average throughput: 42.01 Mbit/s

95th percentile per-packet one-way delay: 53.699 ms

Loss rate: 0.66%

-- Flow 2:

Average throughput: 29.20 Mbit/s

95th percentile per-packet one-way delay: 56.243 ms

Loss rate: 0.46%

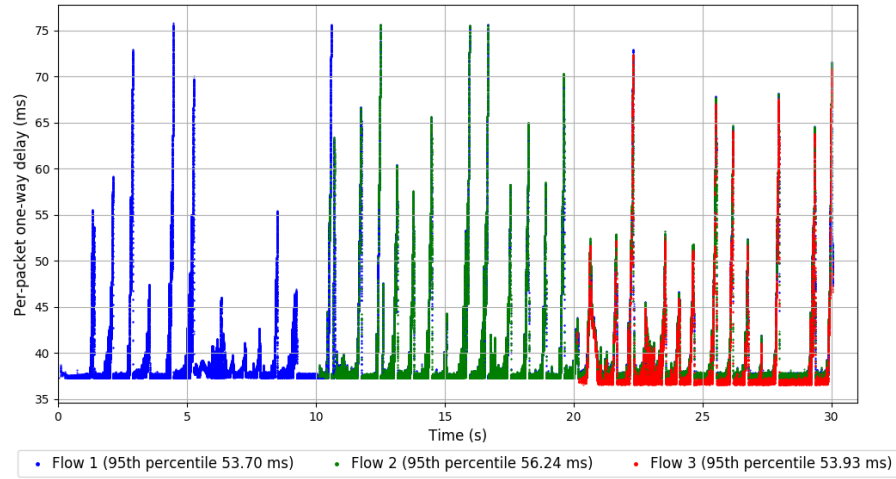
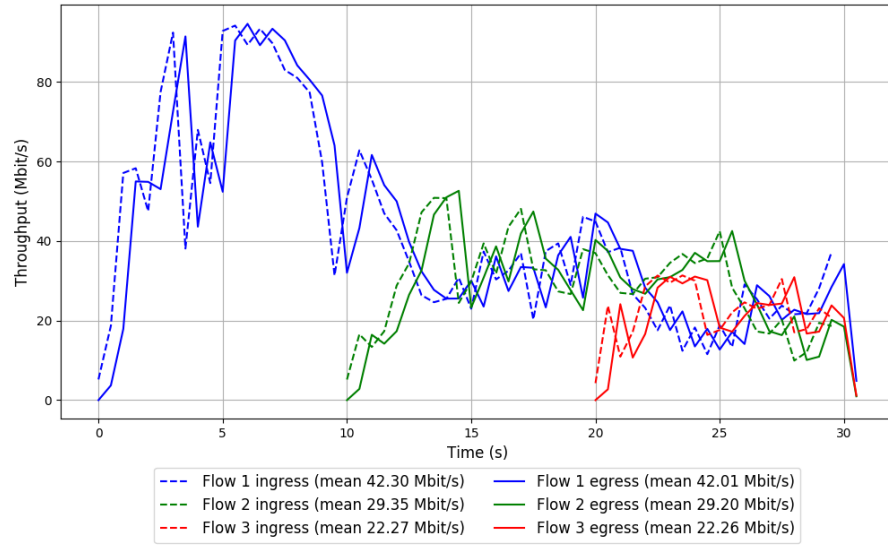
-- Flow 3:

Average throughput: 22.26 Mbit/s

95th percentile per-packet one-way delay: 53.932 ms

Loss rate: 0.00%

# Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-07-10 07:50:19

End at: 2018-07-10 07:50:49

Local clock offset: 0.203 ms

Remote clock offset: 4.496 ms

# Below is generated by plot.py at 2018-07-10 08:12:55

# Datalink statistics

-- Total of 3 flows:

Average throughput: 79.65 Mbit/s

95th percentile per-packet one-way delay: 55.166 ms

Loss rate: 0.20%

-- Flow 1:

Average throughput: 45.28 Mbit/s

95th percentile per-packet one-way delay: 63.188 ms

Loss rate: 0.30%

-- Flow 2:

Average throughput: 27.37 Mbit/s

95th percentile per-packet one-way delay: 52.338 ms

Loss rate: 0.15%

-- Flow 3:

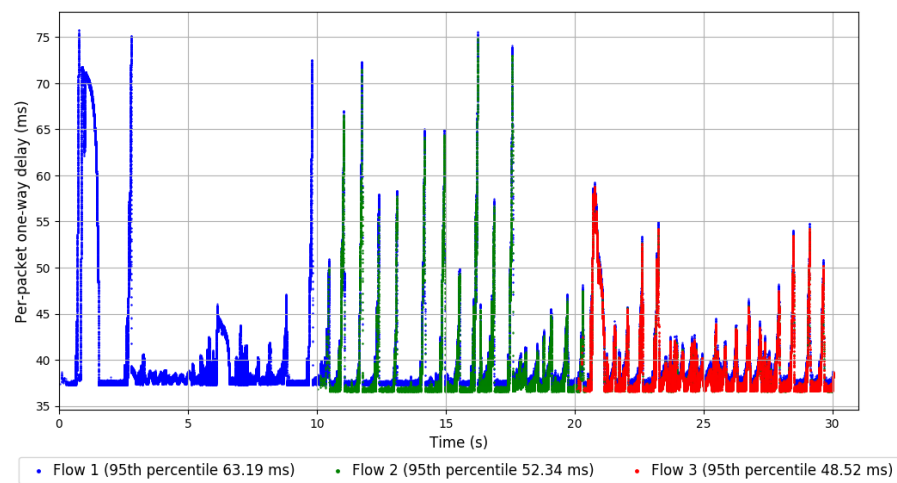
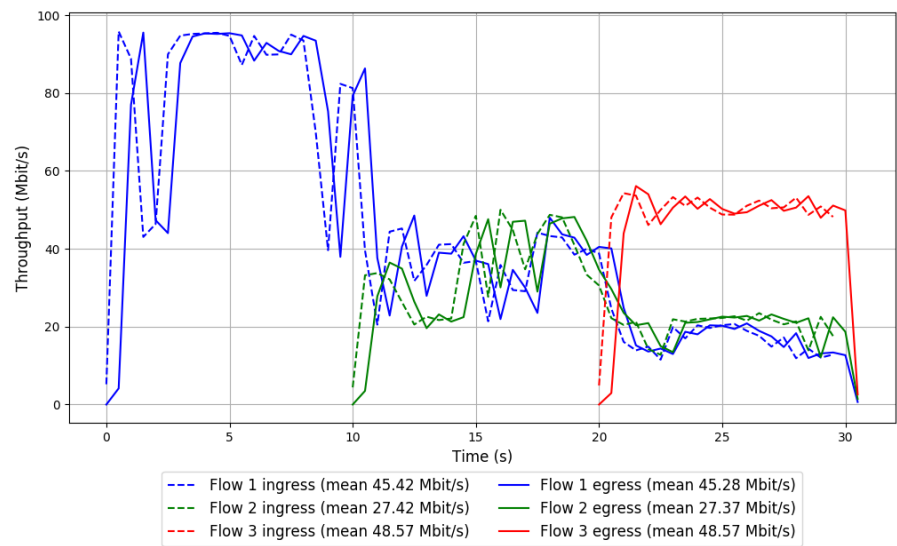
Average throughput: 48.57 Mbit/s

95th percentile per-packet one-way delay: 48.515 ms

Loss rate: 0.00%



Run 10: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-07-10 03:44:42

End at: 2018-07-10 03:45:12

Local clock offset: 0.581 ms

Remote clock offset: -0.55 ms

# Below is generated by plot.py at 2018-07-10 08:12:55

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.72 Mbit/s

95th percentile per-packet one-way delay: 72.172 ms

Loss rate: 0.73%

-- Flow 1:

Average throughput: 72.94 Mbit/s

95th percentile per-packet one-way delay: 72.638 ms

Loss rate: 0.82%

-- Flow 2:

Average throughput: 21.61 Mbit/s

95th percentile per-packet one-way delay: 71.117 ms

Loss rate: 0.48%

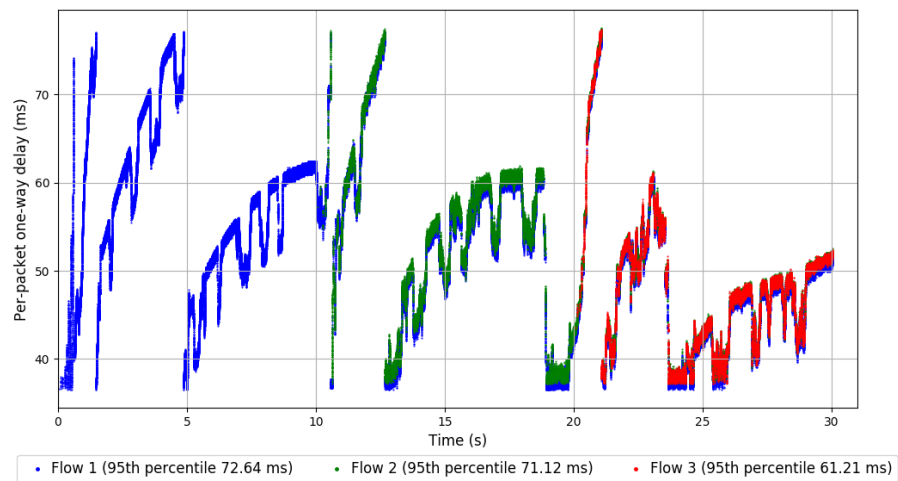
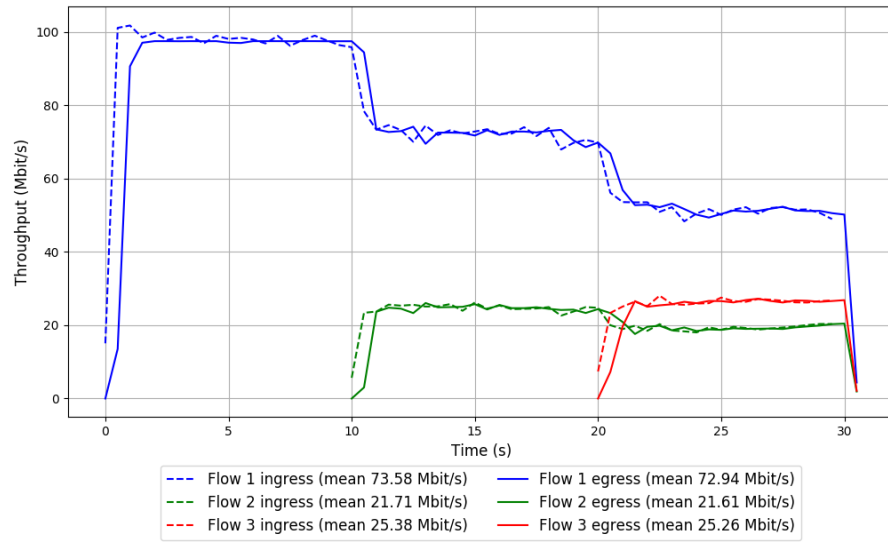
-- Flow 3:

Average throughput: 25.26 Mbit/s

95th percentile per-packet one-way delay: 61.210 ms

Loss rate: 0.40%

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

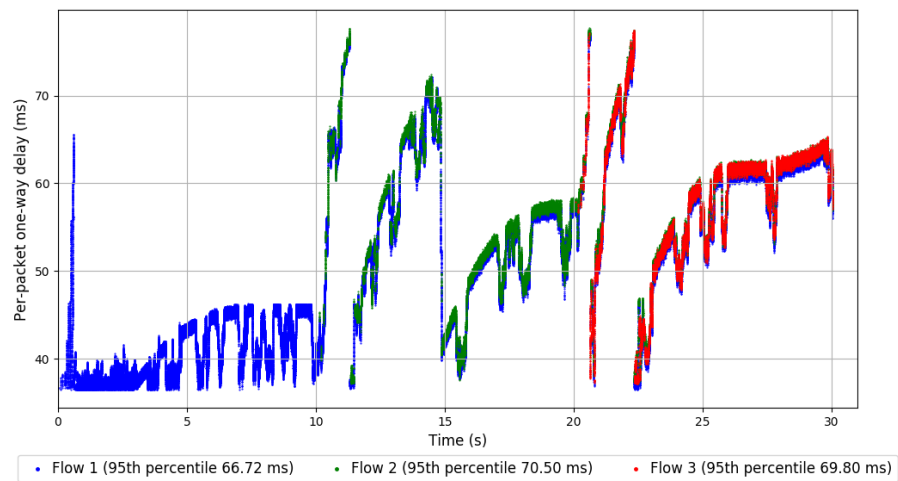
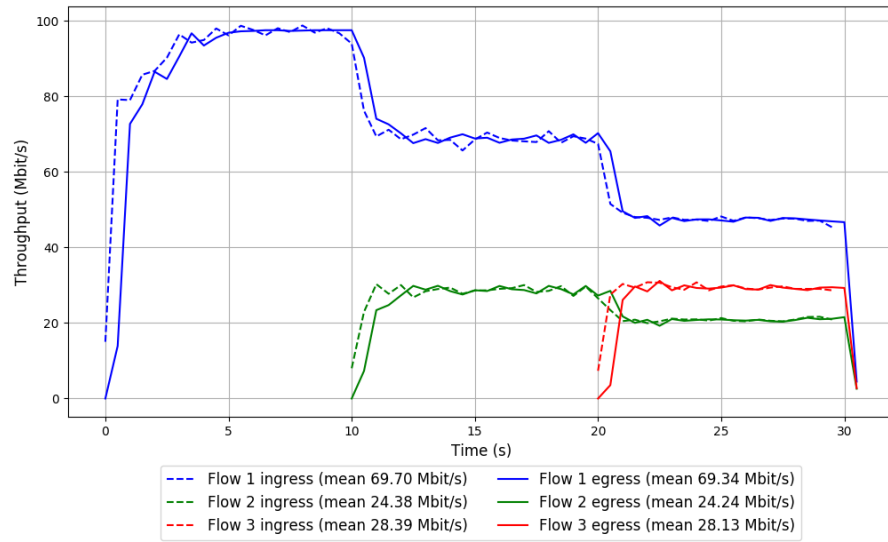


Run 2: Statistics of TCP Cubic

Start at: 2018-07-10 04:13:52  
End at: 2018-07-10 04:14:22  
Local clock offset: 0.519 ms  
Remote clock offset: -1.828 ms

# Below is generated by plot.py at 2018-07-10 08:12:55  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.84 Mbit/s  
95th percentile per-packet one-way delay: 67.791 ms  
Loss rate: 0.50%  
-- Flow 1:  
Average throughput: 69.34 Mbit/s  
95th percentile per-packet one-way delay: 66.721 ms  
Loss rate: 0.44%  
-- Flow 2:  
Average throughput: 24.24 Mbit/s  
95th percentile per-packet one-way delay: 70.503 ms  
Loss rate: 0.49%  
-- Flow 3:  
Average throughput: 28.13 Mbit/s  
95th percentile per-packet one-way delay: 69.797 ms  
Loss rate: 0.92%

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



Run 3: Statistics of TCP Cubic

Start at: 2018-07-10 04:42:11

End at: 2018-07-10 04:42:41

Local clock offset: 0.379 ms

Remote clock offset: 3.565 ms

# Below is generated by plot.py at 2018-07-10 08:12:55

# Datalink statistics

-- Total of 3 flows:

Average throughput: 96.18 Mbit/s

95th percentile per-packet one-way delay: 73.812 ms

Loss rate: 0.68%

-- Flow 1:

Average throughput: 79.17 Mbit/s

95th percentile per-packet one-way delay: 73.802 ms

Loss rate: 0.73%

-- Flow 2:

Average throughput: 21.64 Mbit/s

95th percentile per-packet one-way delay: 73.773 ms

Loss rate: 0.41%

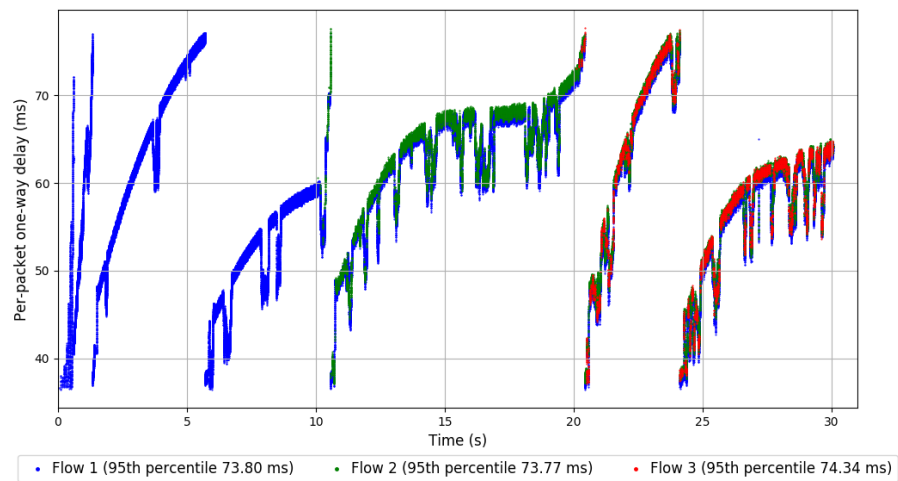
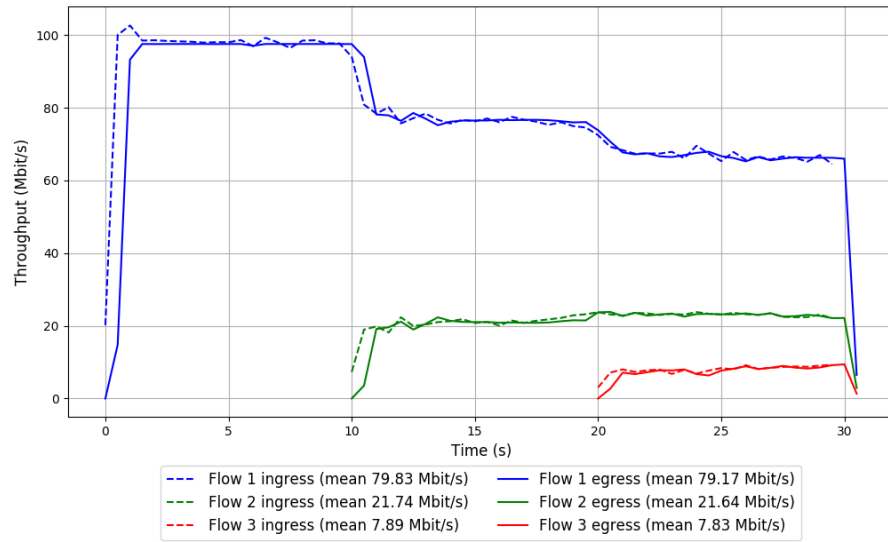
-- Flow 3:

Average throughput: 7.83 Mbit/s

95th percentile per-packet one-way delay: 74.338 ms

Loss rate: 0.82%

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



Run 4: Statistics of TCP Cubic

Start at: 2018-07-10 05:10:03

End at: 2018-07-10 05:10:33

Local clock offset: 0.218 ms

Remote clock offset: 5.295 ms

# Below is generated by plot.py at 2018-07-10 08:12:55

# Datalink statistics

-- Total of 3 flows:

Average throughput: 96.05 Mbit/s

95th percentile per-packet one-way delay: 69.514 ms

Loss rate: 0.70%

-- Flow 1:

Average throughput: 71.58 Mbit/s

95th percentile per-packet one-way delay: 69.751 ms

Loss rate: 0.72%

-- Flow 2:

Average throughput: 24.72 Mbit/s

95th percentile per-packet one-way delay: 68.756 ms

Loss rate: 0.58%

-- Flow 3:

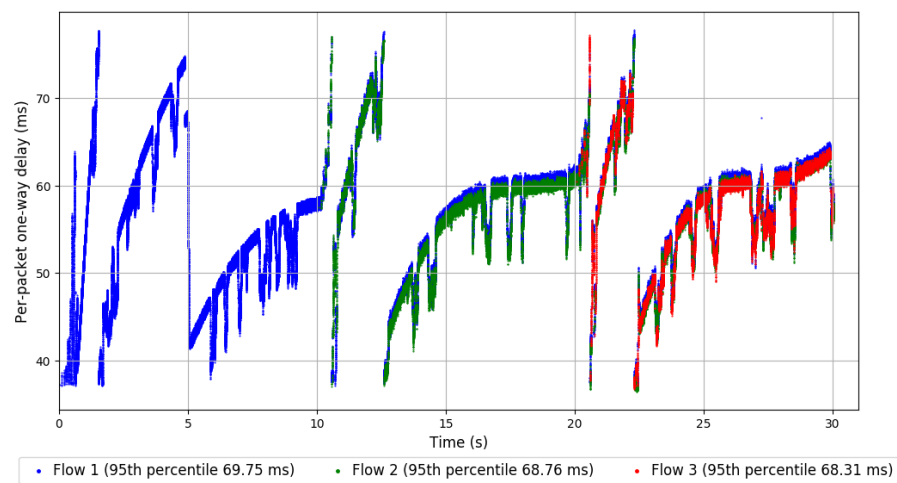
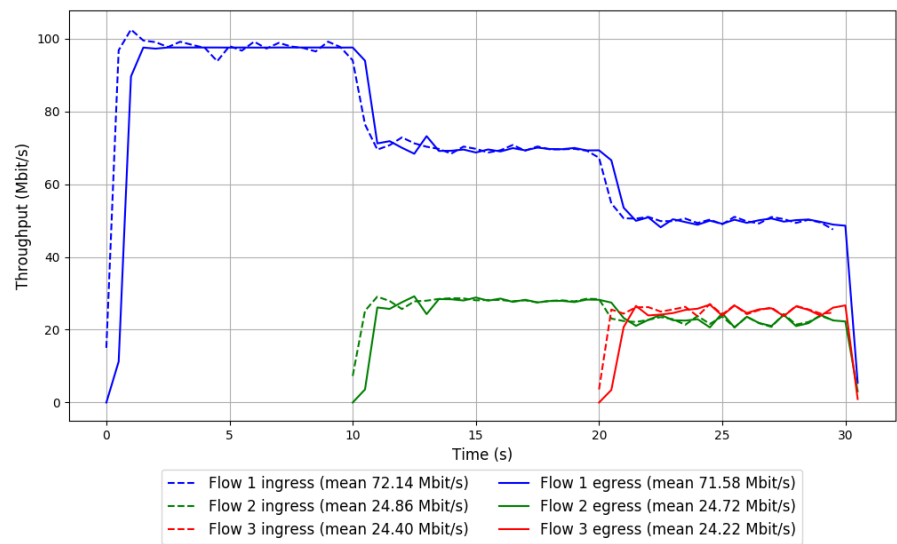
Average throughput: 24.22 Mbit/s

95th percentile per-packet one-way delay: 68.308 ms

Loss rate: 0.80%



Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-07-10 05:37:42

End at: 2018-07-10 05:38:12

Local clock offset: -0.104 ms

Remote clock offset: 5.217 ms

# Below is generated by plot.py at 2018-07-10 08:13:29

# Datalink statistics

-- Total of 3 flows:

Average throughput: 96.16 Mbit/s

95th percentile per-packet one-way delay: 73.405 ms

Loss rate: 0.59%

-- Flow 1:

Average throughput: 80.48 Mbit/s

95th percentile per-packet one-way delay: 73.419 ms

Loss rate: 0.60%

-- Flow 2:

Average throughput: 18.25 Mbit/s

95th percentile per-packet one-way delay: 71.980 ms

Loss rate: 0.34%

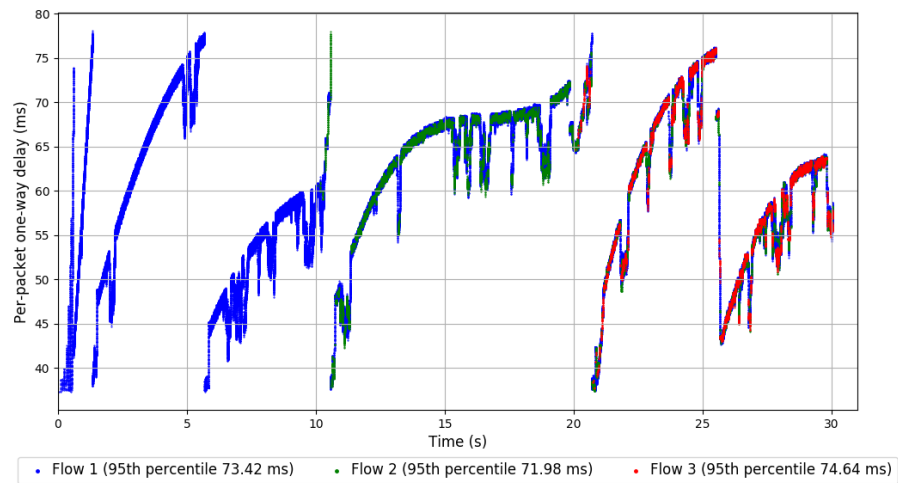
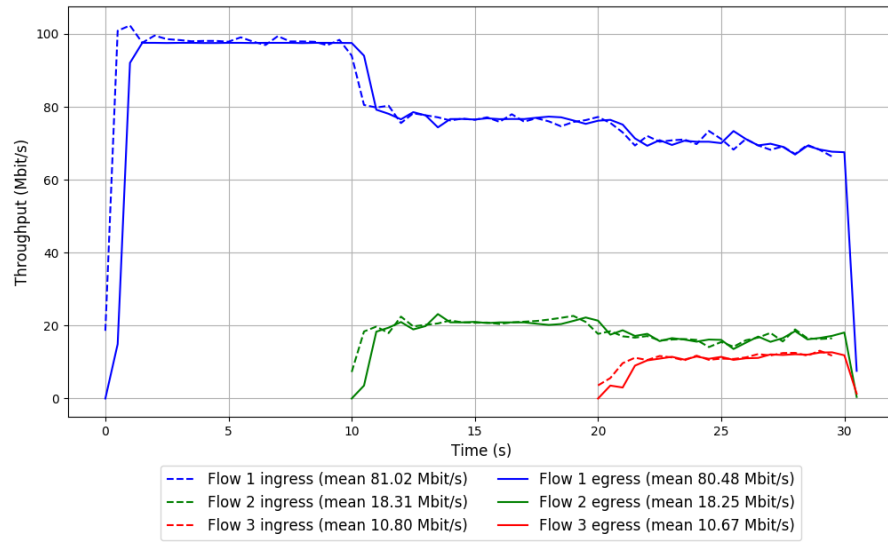
-- Flow 3:

Average throughput: 10.67 Mbit/s

95th percentile per-packet one-way delay: 74.641 ms

Loss rate: 1.25%

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



Run 6: Statistics of TCP Cubic

Start at: 2018-07-10 06:04:13

End at: 2018-07-10 06:04:43

Local clock offset: -0.355 ms

Remote clock offset: 1.005 ms

# Below is generated by plot.py at 2018-07-10 08:13:31

# Datalink statistics

-- Total of 3 flows:

Average throughput: 96.08 Mbit/s

95th percentile per-packet one-way delay: 73.605 ms

Loss rate: 0.82%

-- Flow 1:

Average throughput: 71.76 Mbit/s

95th percentile per-packet one-way delay: 74.095 ms

Loss rate: 0.84%

-- Flow 2:

Average throughput: 23.72 Mbit/s

95th percentile per-packet one-way delay: 73.108 ms

Loss rate: 0.97%

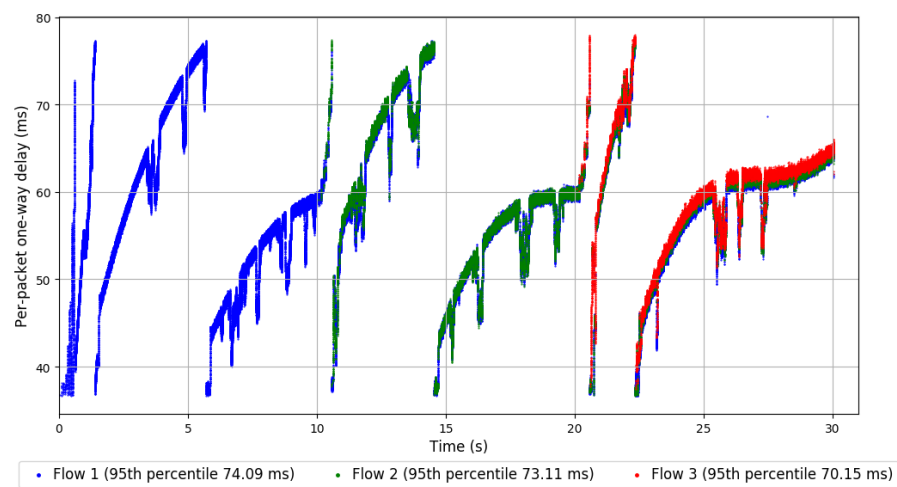
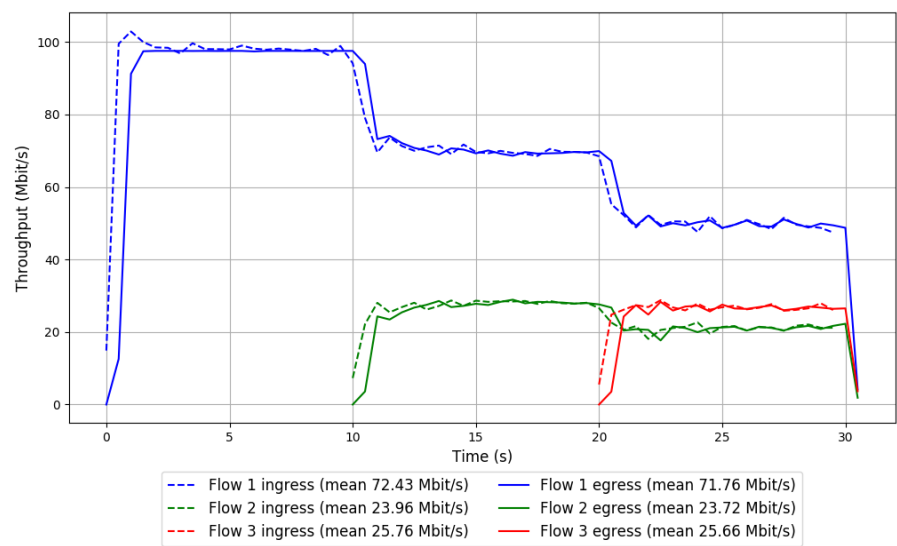
-- Flow 3:

Average throughput: 25.66 Mbit/s

95th percentile per-packet one-way delay: 70.151 ms

Loss rate: 0.36%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-07-10 06:30:38

End at: 2018-07-10 06:31:08

Local clock offset: -0.188 ms

Remote clock offset: 4.388 ms

# Below is generated by plot.py at 2018-07-10 08:13:35

# Datalink statistics

-- Total of 3 flows:

Average throughput: 96.07 Mbit/s

95th percentile per-packet one-way delay: 71.388 ms

Loss rate: 0.75%

-- Flow 1:

Average throughput: 70.27 Mbit/s

95th percentile per-packet one-way delay: 71.165 ms

Loss rate: 0.75%

-- Flow 2:

Average throughput: 27.75 Mbit/s

95th percentile per-packet one-way delay: 71.880 ms

Loss rate: 0.81%

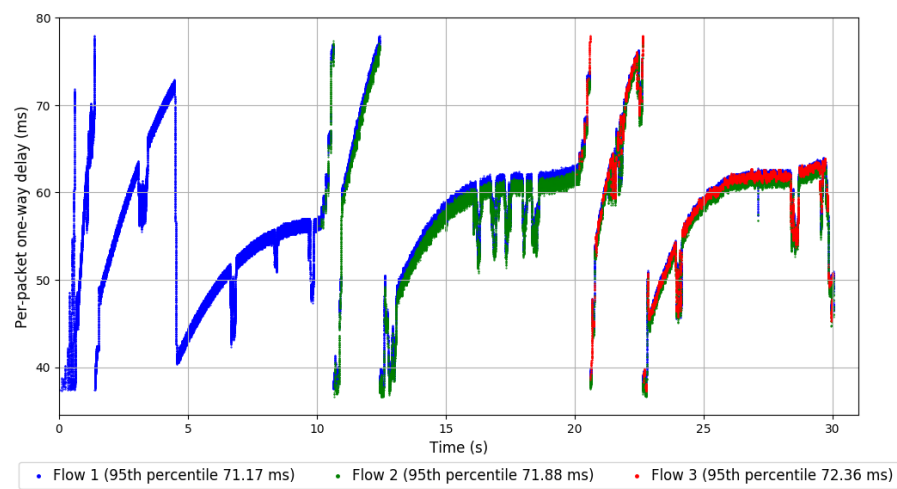
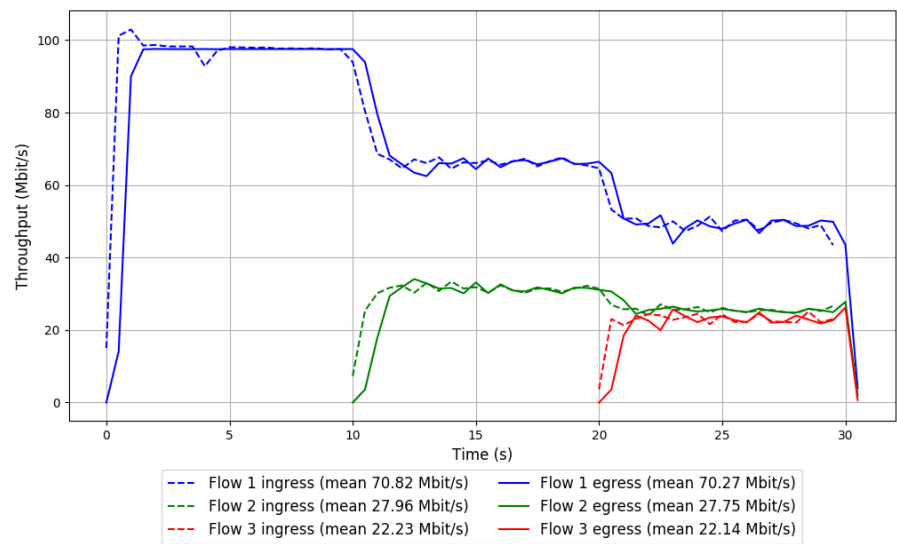
-- Flow 3:

Average throughput: 22.14 Mbit/s

95th percentile per-packet one-way delay: 72.358 ms

Loss rate: 0.54%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-07-10 06:55:24

End at: 2018-07-10 06:55:54

Local clock offset: 0.133 ms

Remote clock offset: 4.067 ms

# Below is generated by plot.py at 2018-07-10 08:13:39

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.93 Mbit/s

95th percentile per-packet one-way delay: 74.718 ms

Loss rate: 0.84%

-- Flow 1:

Average throughput: 71.16 Mbit/s

95th percentile per-packet one-way delay: 74.911 ms

Loss rate: 0.90%

-- Flow 2:

Average throughput: 25.25 Mbit/s

95th percentile per-packet one-way delay: 74.670 ms

Loss rate: 0.38%

-- Flow 3:

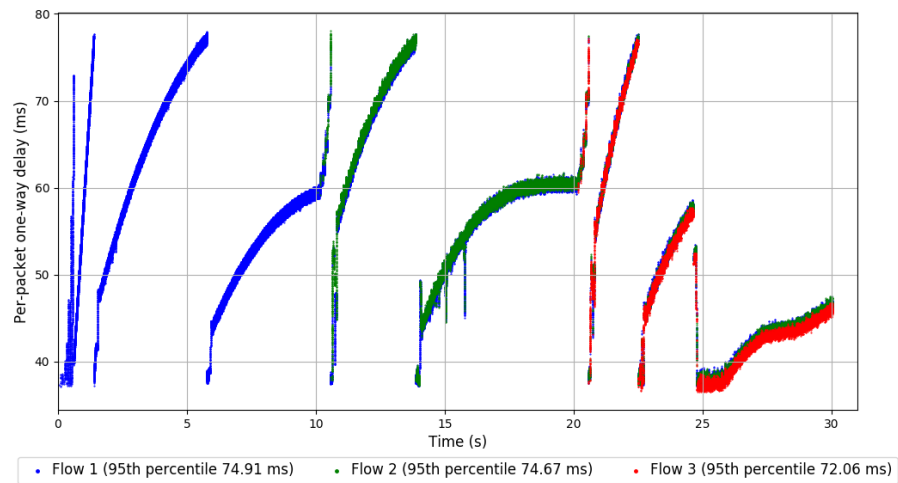
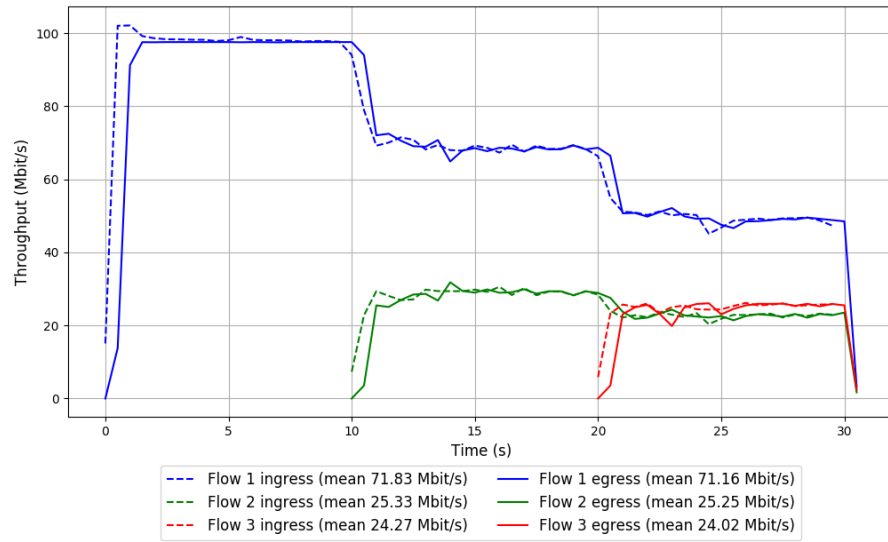
Average throughput: 24.02 Mbit/s

95th percentile per-packet one-way delay: 72.063 ms

Loss rate: 1.19%



# Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

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

End at: 2018-07-10 07:20:51

Local clock offset: 0.213 ms

Remote clock offset: 3.932 ms

# Below is generated by plot.py at 2018-07-10 08:13:41

# Datalink statistics

-- Total of 3 flows:

Average throughput: 96.06 Mbit/s

95th percentile per-packet one-way delay: 74.961 ms

Loss rate: 0.83%

-- Flow 1:

Average throughput: 72.80 Mbit/s

95th percentile per-packet one-way delay: 75.136 ms

Loss rate: 0.81%

-- Flow 2:

Average throughput: 25.60 Mbit/s

95th percentile per-packet one-way delay: 74.452 ms

Loss rate: 0.83%

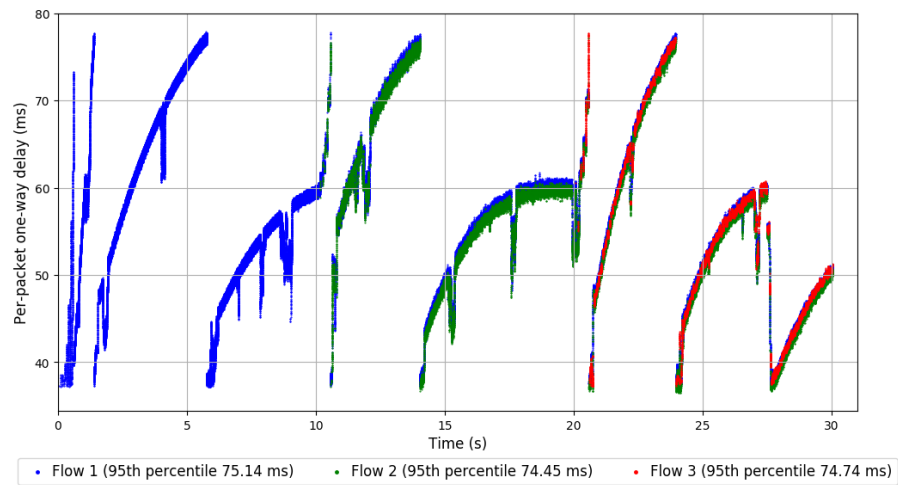
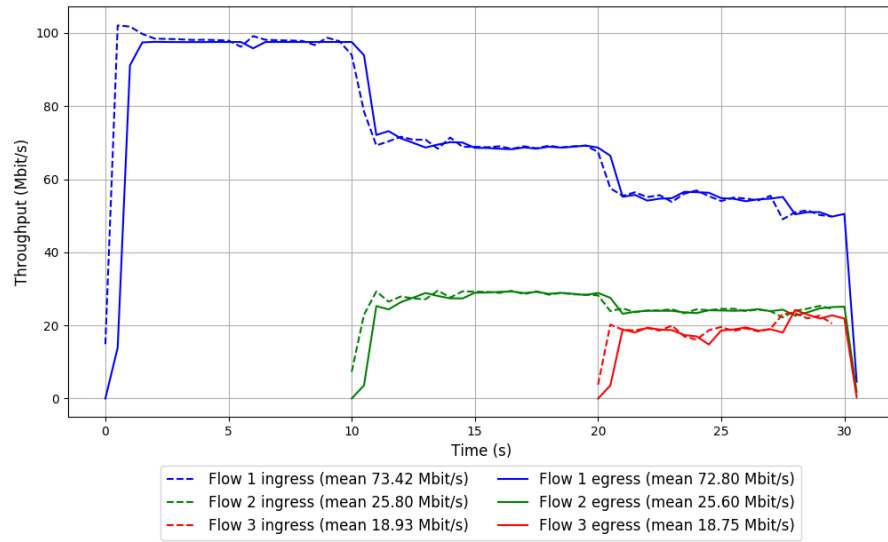
-- Flow 3:

Average throughput: 18.75 Mbit/s

95th percentile per-packet one-way delay: 74.741 ms

Loss rate: 1.06%

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



Run 10: Statistics of TCP Cubic

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

End at: 2018-07-10 07:46:37

Local clock offset: 0.209 ms

Remote clock offset: 4.323 ms

# Below is generated by plot.py at 2018-07-10 08:13:49

# Datalink statistics

-- Total of 3 flows:

Average throughput: 96.15 Mbit/s

95th percentile per-packet one-way delay: 73.451 ms

Loss rate: 0.88%

-- Flow 1:

Average throughput: 70.18 Mbit/s

95th percentile per-packet one-way delay: 73.702 ms

Loss rate: 0.86%

-- Flow 2:

Average throughput: 26.65 Mbit/s

95th percentile per-packet one-way delay: 72.091 ms

Loss rate: 1.18%

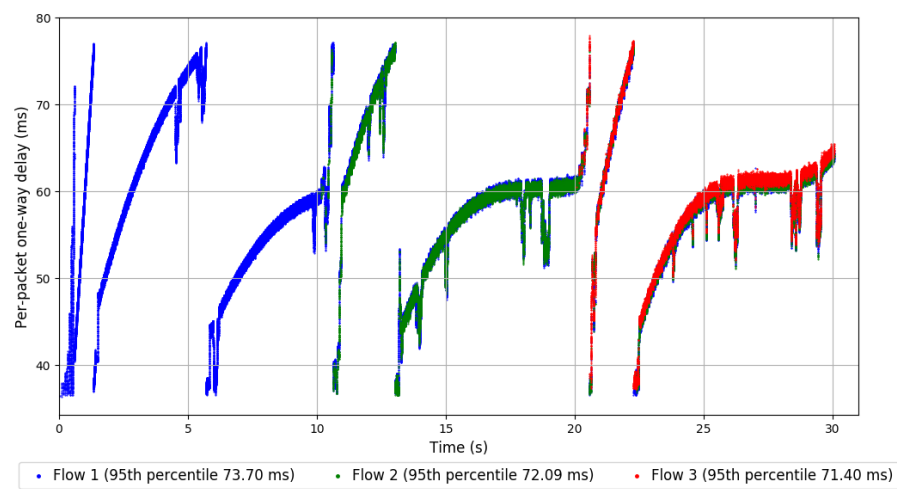
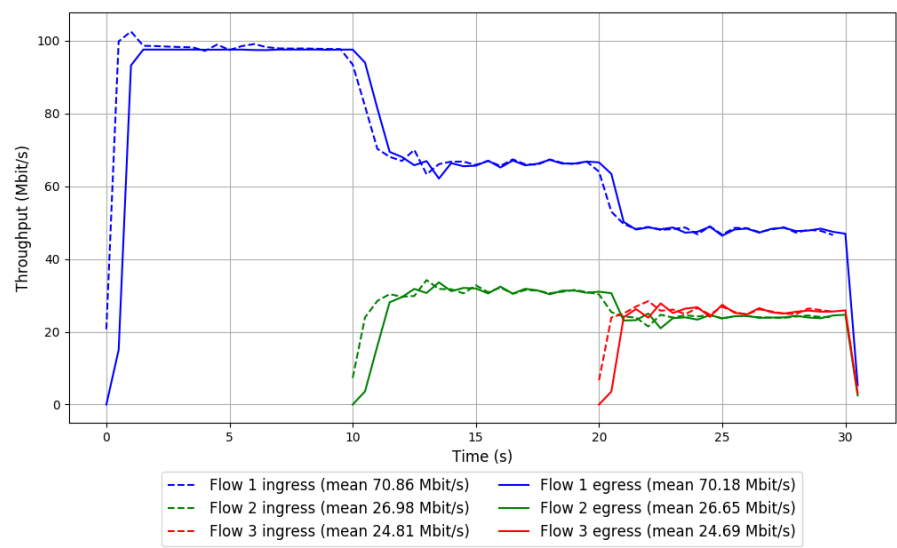
-- Flow 3:

Average throughput: 24.69 Mbit/s

95th percentile per-packet one-way delay: 71.403 ms

Loss rate: 0.42%

Run 10: Report of TCP Cubic — Data Link

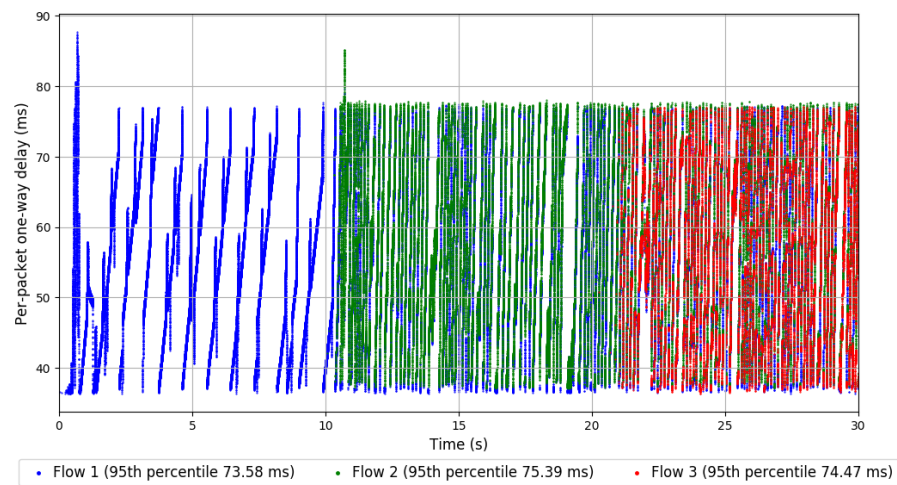
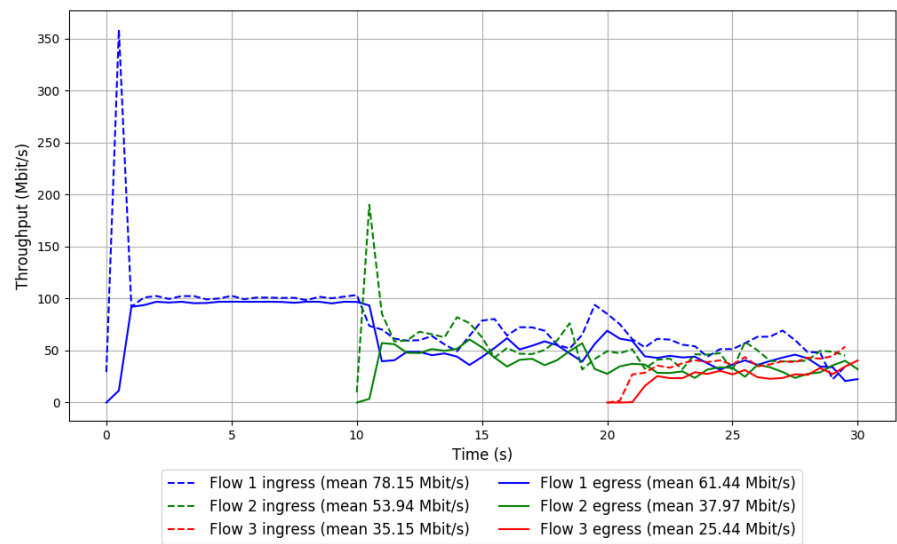


Run 1: Statistics of FillP

Start at: 2018-07-10 03:47:51  
End at: 2018-07-10 03:48:21  
Local clock offset: 0.591 ms  
Remote clock offset: -0.684 ms

# Below is generated by plot.py at 2018-07-10 08:14:17  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.96 Mbit/s  
95th percentile per-packet one-way delay: 74.328 ms  
Loss rate: 24.45%  
-- Flow 1:  
Average throughput: 61.44 Mbit/s  
95th percentile per-packet one-way delay: 73.576 ms  
Loss rate: 21.38%  
-- Flow 2:  
Average throughput: 37.97 Mbit/s  
95th percentile per-packet one-way delay: 75.388 ms  
Loss rate: 29.61%  
-- Flow 3:  
Average throughput: 25.44 Mbit/s  
95th percentile per-packet one-way delay: 74.471 ms  
Loss rate: 29.18%

Run 1: Report of FillP — Data Link



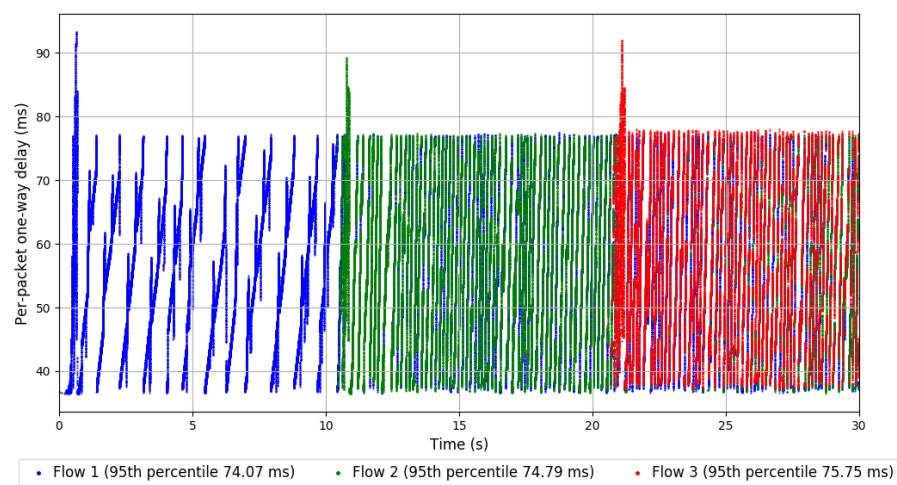
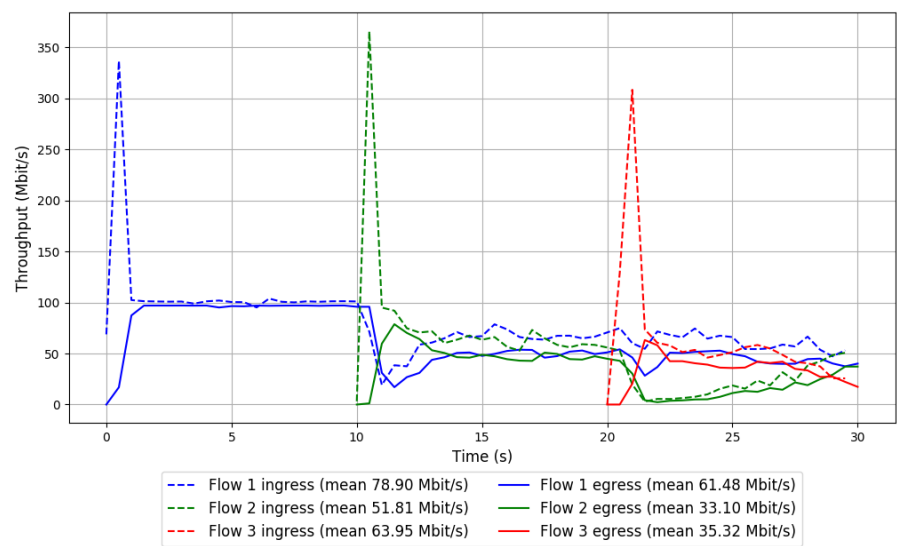
Run 2: Statistics of FillP

Start at: 2018-07-10 04:17:01  
End at: 2018-07-10 04:17:31  
Local clock offset: 0.399 ms  
Remote clock offset: -1.872 ms

# Below is generated by plot.py at 2018-07-10 08:14:37  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.18 Mbit/s  
95th percentile per-packet one-way delay: 74.497 ms  
Loss rate: 29.24%  
-- Flow 1:  
Average throughput: 61.48 Mbit/s  
95th percentile per-packet one-way delay: 74.069 ms  
Loss rate: 22.05%  
-- Flow 2:  
Average throughput: 33.10 Mbit/s  
95th percentile per-packet one-way delay: 74.791 ms  
Loss rate: 36.13%  
-- Flow 3:  
Average throughput: 35.32 Mbit/s  
95th percentile per-packet one-way delay: 75.750 ms  
Loss rate: 44.76%



Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-07-10 04:45:09

End at: 2018-07-10 04:45:39

Local clock offset: 0.297 ms

Remote clock offset: 3.558 ms

# Below is generated by plot.py at 2018-07-10 08:15:07

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.19 Mbit/s

95th percentile per-packet one-way delay: 73.570 ms

Loss rate: 28.92%

-- Flow 1:

Average throughput: 58.94 Mbit/s

95th percentile per-packet one-way delay: 73.214 ms

Loss rate: 22.11%

-- Flow 2:

Average throughput: 37.46 Mbit/s

95th percentile per-packet one-way delay: 73.966 ms

Loss rate: 33.82%

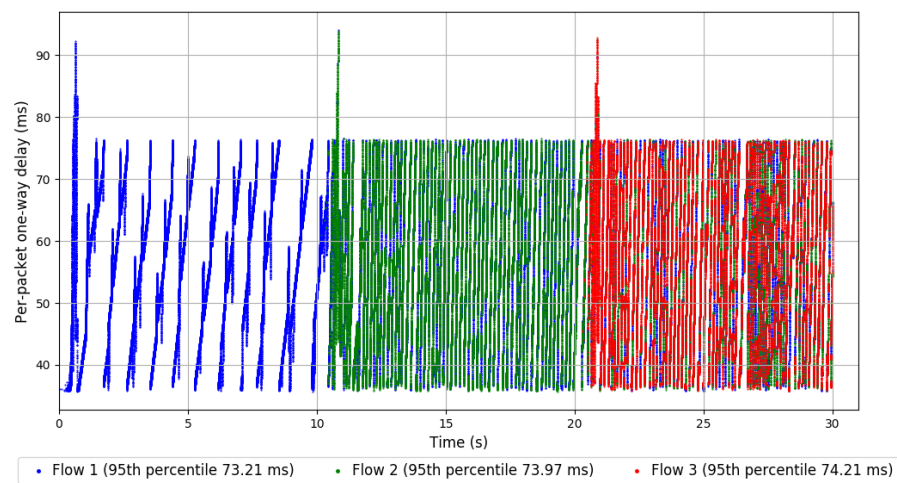
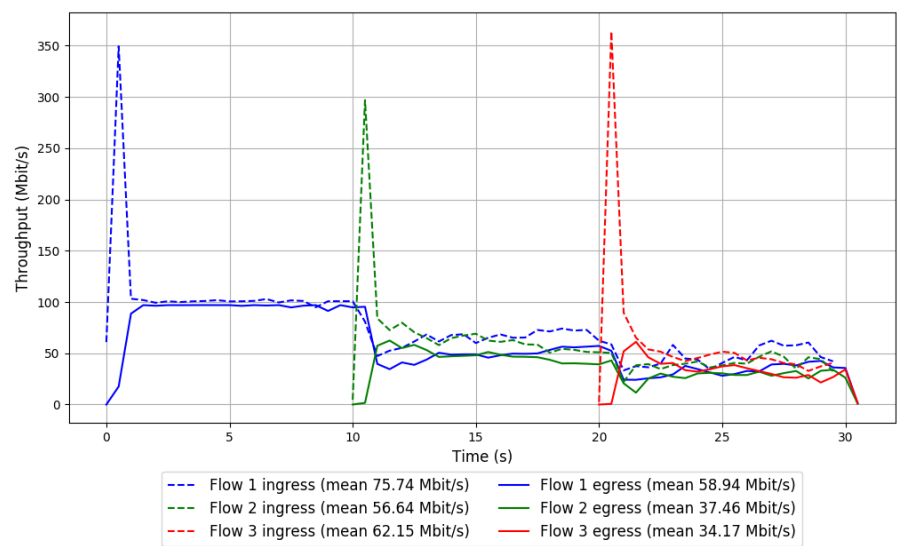
-- Flow 3:

Average throughput: 34.17 Mbit/s

95th percentile per-packet one-way delay: 74.213 ms

Loss rate: 44.97%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-07-10 05:13:05

End at: 2018-07-10 05:13:35

Local clock offset: 0.175 ms

Remote clock offset: 5.029 ms

# Below is generated by plot.py at 2018-07-10 08:15:07

# Datalink statistics

-- Total of 3 flows:

Average throughput: 94.80 Mbit/s

95th percentile per-packet one-way delay: 74.413 ms

Loss rate: 27.72%

-- Flow 1:

Average throughput: 56.69 Mbit/s

95th percentile per-packet one-way delay: 74.136 ms

Loss rate: 20.82%

-- Flow 2:

Average throughput: 39.91 Mbit/s

95th percentile per-packet one-way delay: 74.707 ms

Loss rate: 33.41%

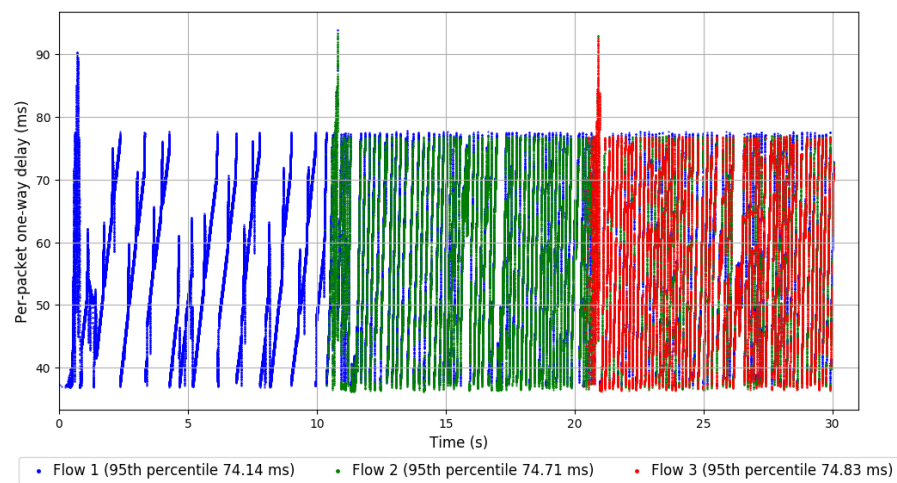
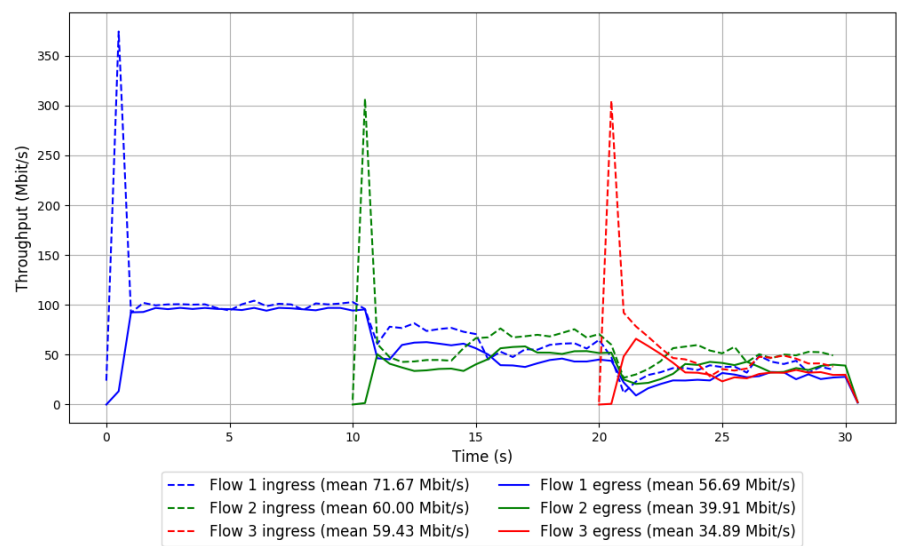
-- Flow 3:

Average throughput: 34.89 Mbit/s

95th percentile per-packet one-way delay: 74.832 ms

Loss rate: 41.27%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-07-10 05:40:38

End at: 2018-07-10 05:41:08

Local clock offset: -0.126 ms

Remote clock offset: 4.052 ms

# Below is generated by plot.py at 2018-07-10 08:15:10

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.03 Mbit/s

95th percentile per-packet one-way delay: 74.222 ms

Loss rate: 24.39%

-- Flow 1:

Average throughput: 61.47 Mbit/s

95th percentile per-packet one-way delay: 73.743 ms

Loss rate: 20.78%

-- Flow 2:

Average throughput: 36.22 Mbit/s

95th percentile per-packet one-way delay: 74.664 ms

Loss rate: 26.36%

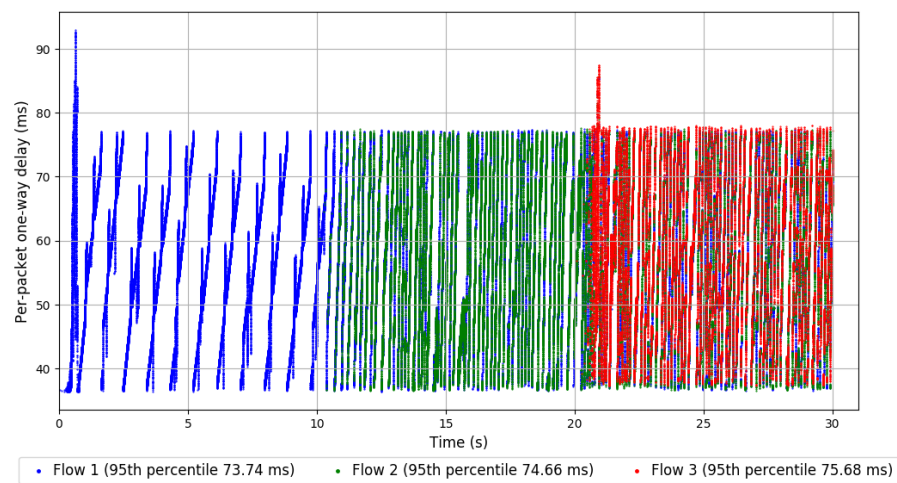
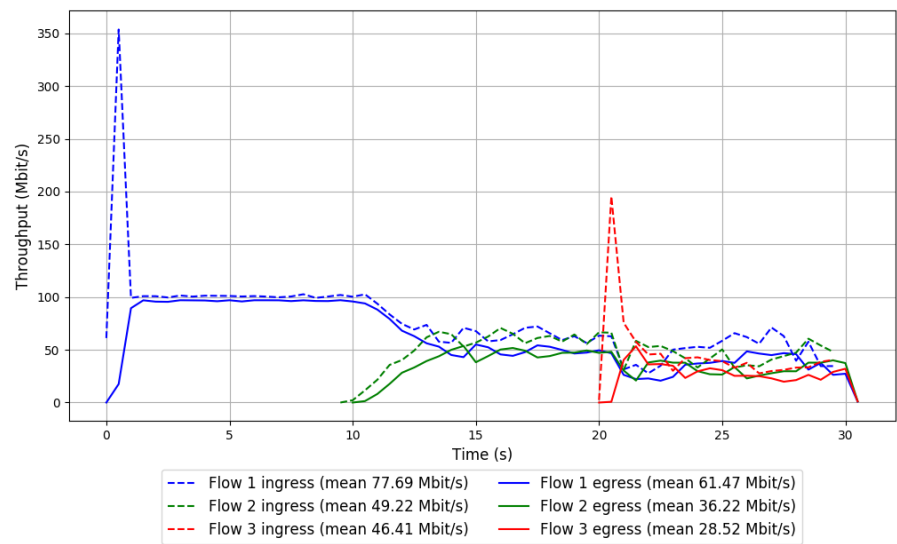
-- Flow 3:

Average throughput: 28.52 Mbit/s

95th percentile per-packet one-way delay: 75.683 ms

Loss rate: 38.43%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-07-10 06:07:11

End at: 2018-07-10 06:07:41

Local clock offset: -0.242 ms

Remote clock offset: 0.949 ms

# Below is generated by plot.py at 2018-07-10 08:15:15

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.15 Mbit/s

95th percentile per-packet one-way delay: 74.696 ms

Loss rate: 26.94%

-- Flow 1:

Average throughput: 58.76 Mbit/s

95th percentile per-packet one-way delay: 74.370 ms

Loss rate: 22.31%

-- Flow 2:

Average throughput: 35.58 Mbit/s

95th percentile per-packet one-way delay: 74.786 ms

Loss rate: 34.61%

-- Flow 3:

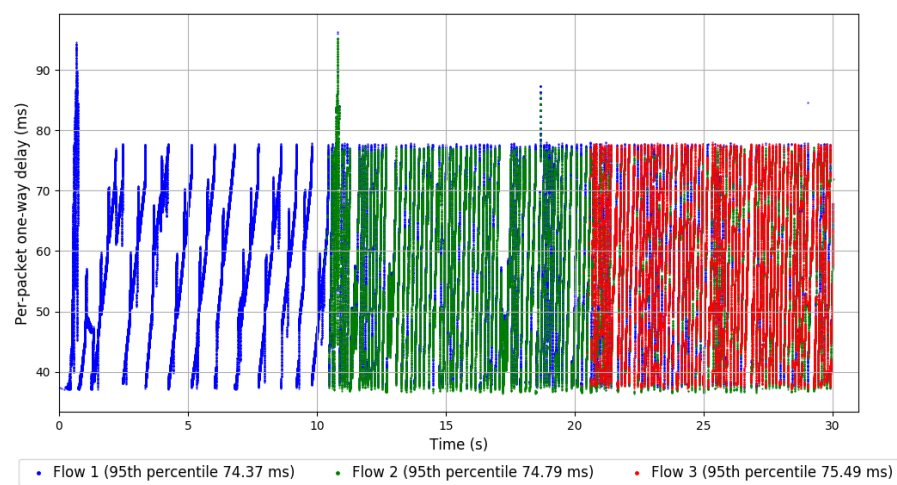
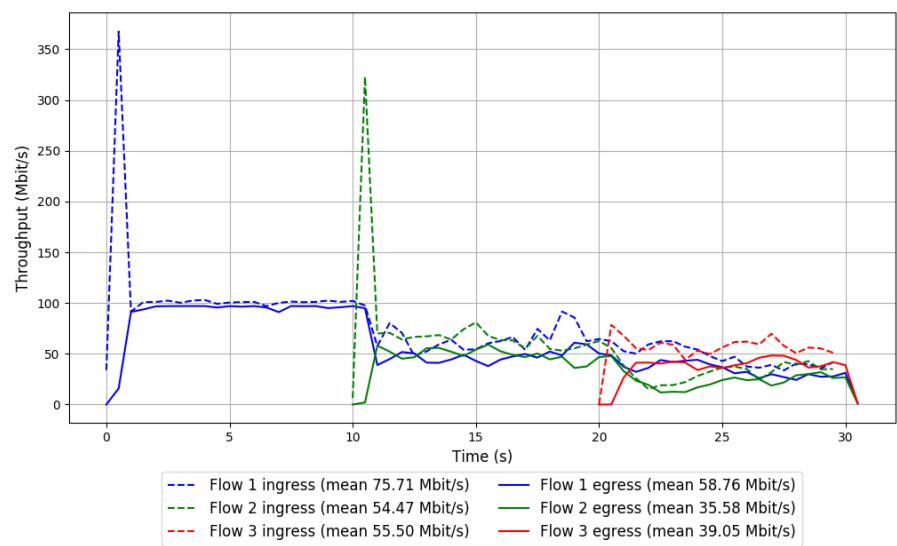
Average throughput: 39.05 Mbit/s

95th percentile per-packet one-way delay: 75.490 ms

Loss rate: 30.83%



Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-07-10 06:33:29

End at: 2018-07-10 06:33:59

Local clock offset: -0.061 ms

Remote clock offset: 4.642 ms

# Below is generated by plot.py at 2018-07-10 08:15:18

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.19 Mbit/s

95th percentile per-packet one-way delay: 74.348 ms

Loss rate: 26.74%

-- Flow 1:

Average throughput: 62.46 Mbit/s

95th percentile per-packet one-way delay: 73.731 ms

Loss rate: 22.36%

-- Flow 2:

Average throughput: 40.93 Mbit/s

95th percentile per-packet one-way delay: 75.399 ms

Loss rate: 34.38%

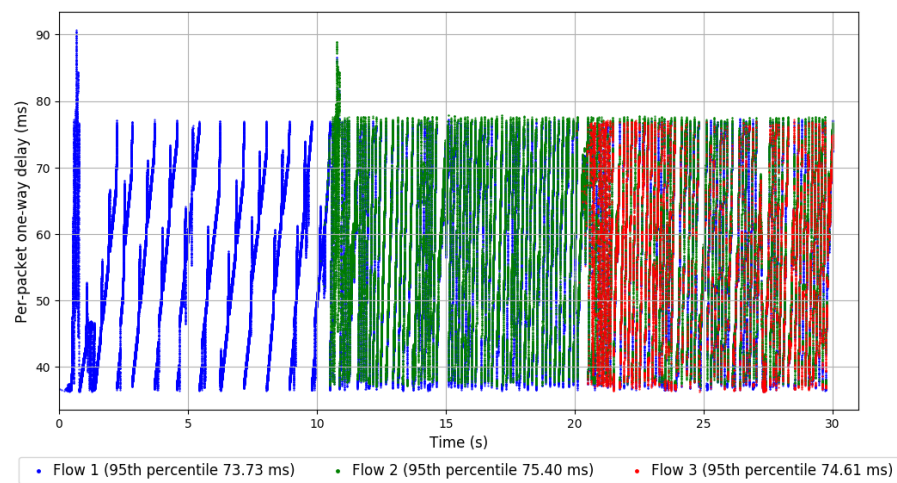
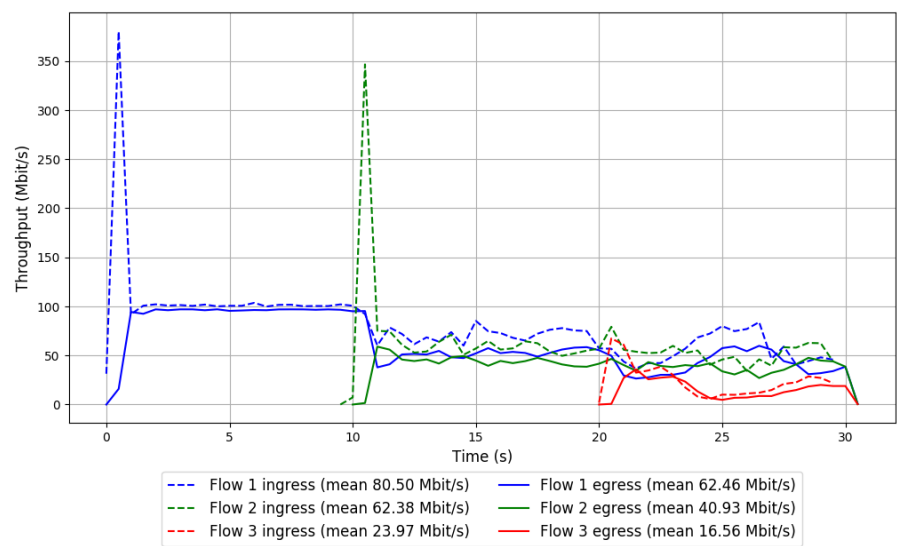
-- Flow 3:

Average throughput: 16.56 Mbit/s

95th percentile per-packet one-way delay: 74.606 ms

Loss rate: 31.07%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-07-10 06:58:03

End at: 2018-07-10 06:58:33

Local clock offset: 0.141 ms

Remote clock offset: 3.827 ms

# Below is generated by plot.py at 2018-07-10 08:15:26

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.27 Mbit/s

95th percentile per-packet one-way delay: 74.468 ms

Loss rate: 24.58%

-- Flow 1:

Average throughput: 59.22 Mbit/s

95th percentile per-packet one-way delay: 74.241 ms

Loss rate: 21.76%

-- Flow 2:

Average throughput: 46.37 Mbit/s

95th percentile per-packet one-way delay: 74.660 ms

Loss rate: 28.89%

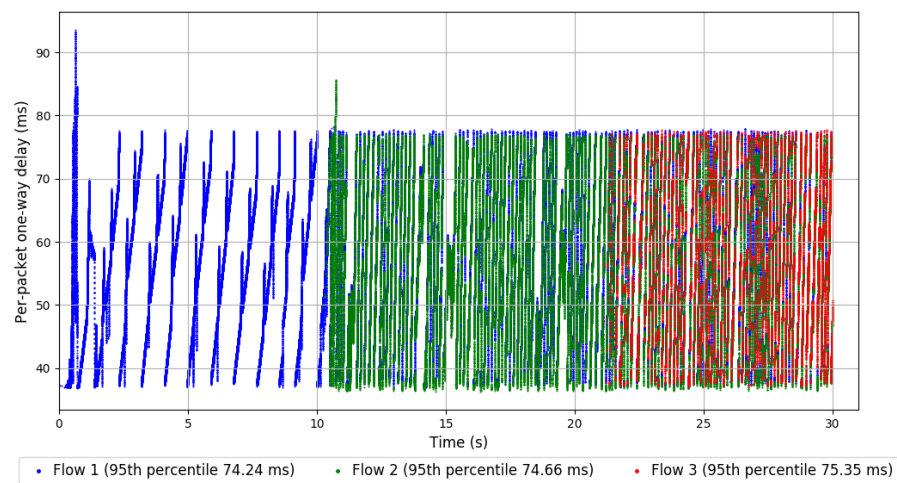
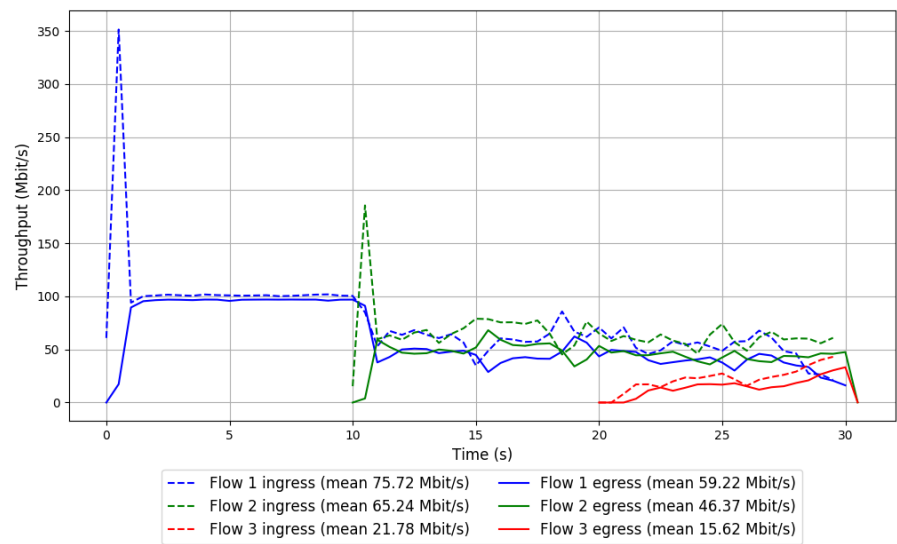
-- Flow 3:

Average throughput: 15.62 Mbit/s

95th percentile per-packet one-way delay: 75.350 ms

Loss rate: 28.23%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

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

End at: 2018-07-10 07:23:37

Local clock offset: 0.217 ms

Remote clock offset: 3.907 ms

# Below is generated by plot.py at 2018-07-10 08:15:57

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.07 Mbit/s

95th percentile per-packet one-way delay: 74.496 ms

Loss rate: 26.18%

-- Flow 1:

Average throughput: 62.97 Mbit/s

95th percentile per-packet one-way delay: 73.725 ms

Loss rate: 21.69%

-- Flow 2:

Average throughput: 35.94 Mbit/s

95th percentile per-packet one-way delay: 75.493 ms

Loss rate: 35.15%

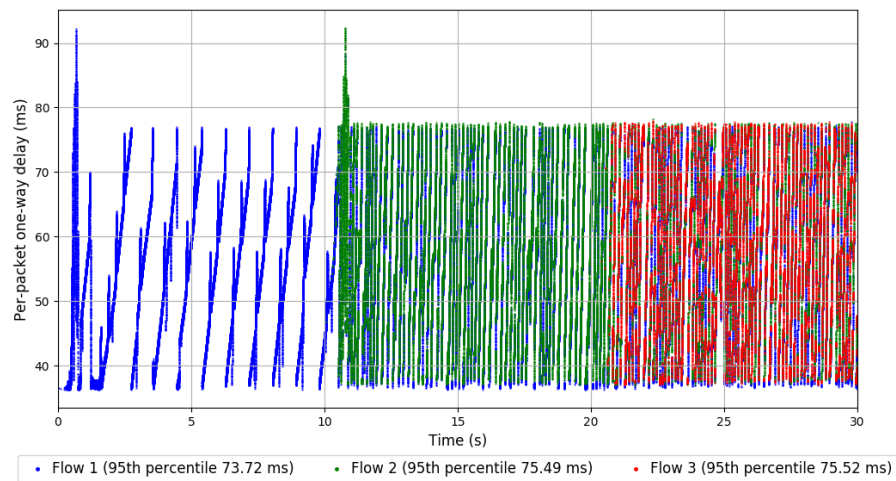
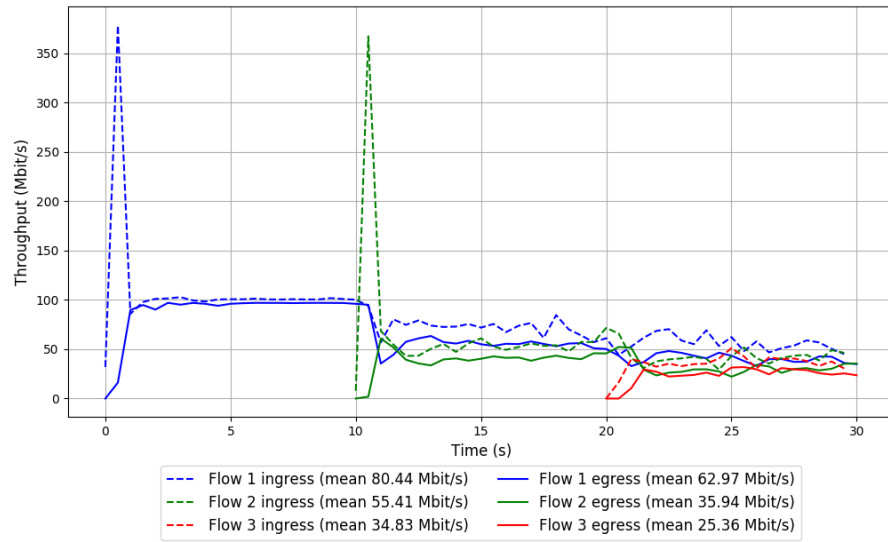
-- Flow 3:

Average throughput: 25.36 Mbit/s

95th percentile per-packet one-way delay: 75.524 ms

Loss rate: 28.82%

# Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-07-10 07:48:53

End at: 2018-07-10 07:49:23

Local clock offset: 0.238 ms

Remote clock offset: 3.805 ms

# Below is generated by plot.py at 2018-07-10 08:16:19

# Datalink statistics

-- Total of 3 flows:

Average throughput: 94.99 Mbit/s

95th percentile per-packet one-way delay: 73.964 ms

Loss rate: 25.05%

-- Flow 1:

Average throughput: 59.38 Mbit/s

95th percentile per-packet one-way delay: 73.565 ms

Loss rate: 21.55%

-- Flow 2:

Average throughput: 37.12 Mbit/s

95th percentile per-packet one-way delay: 74.045 ms

Loss rate: 31.00%

-- Flow 3:

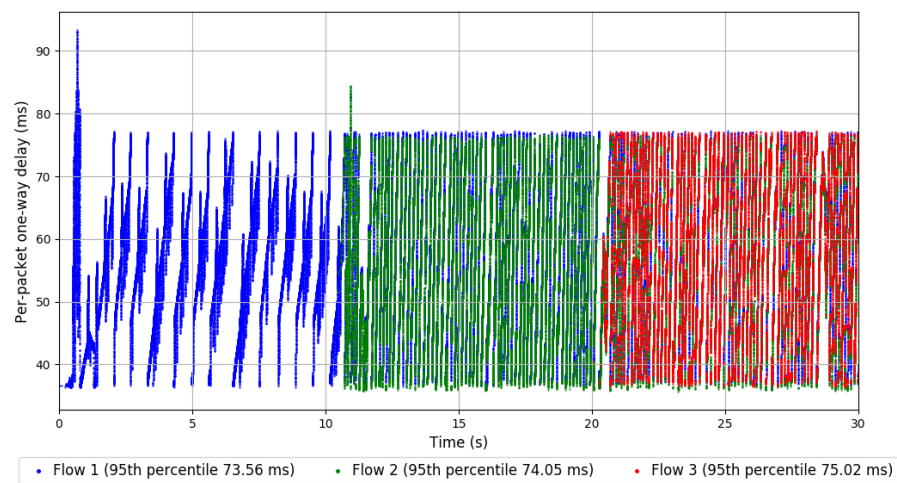
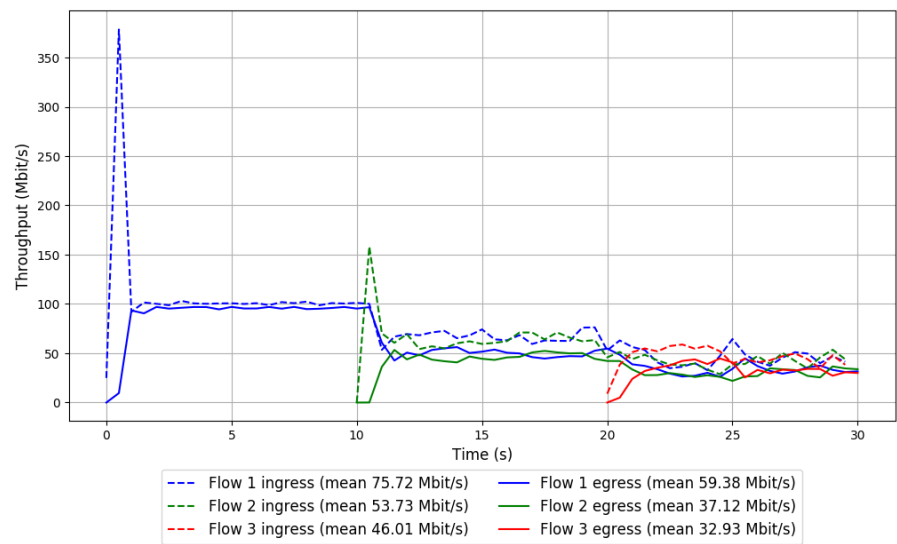
Average throughput: 32.93 Mbit/s

95th percentile per-packet one-way delay: 75.015 ms

Loss rate: 28.44%



Run 10: Report of FillP — Data Link

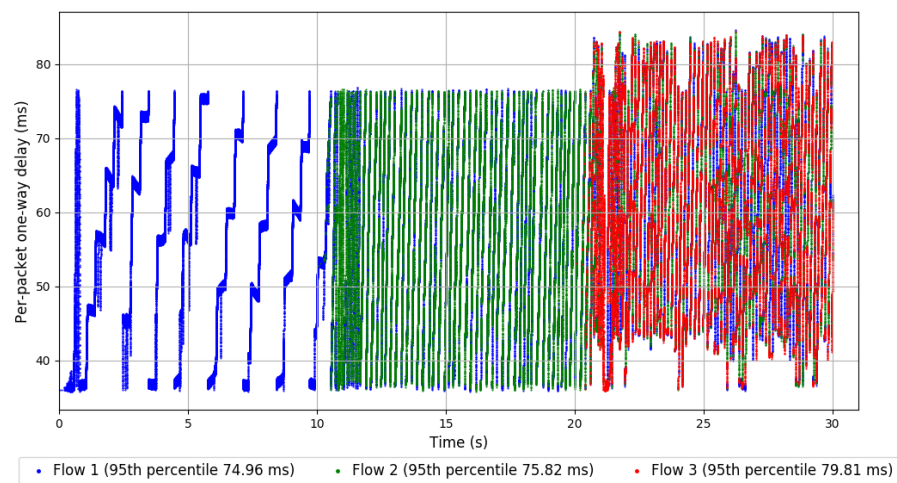
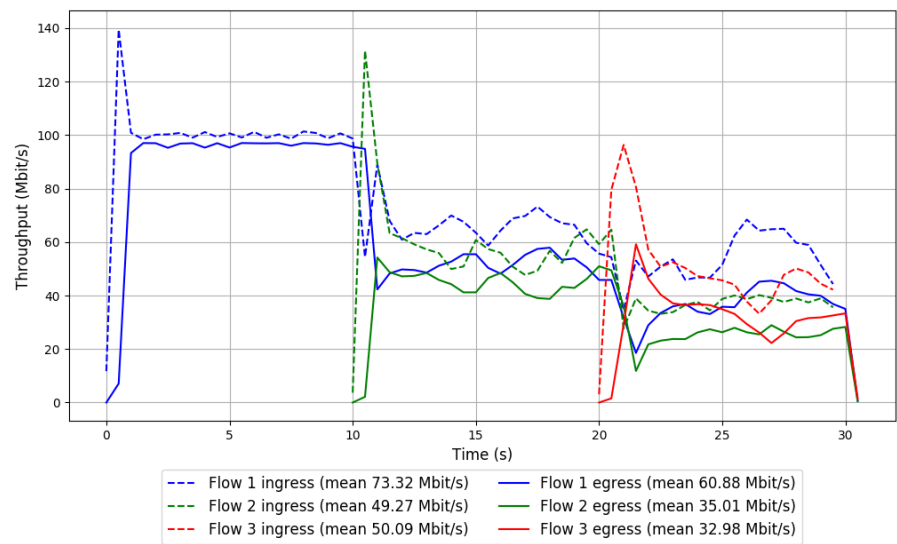


Run 1: Statistics of FillP-Sheep

Start at: 2018-07-10 03:42:55  
End at: 2018-07-10 03:43:25  
Local clock offset: 0.498 ms  
Remote clock offset: -1.036 ms

# Below is generated by plot.py at 2018-07-10 08:16:42  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.12 Mbit/s  
95th percentile per-packet one-way delay: 75.572 ms  
Loss rate: 22.43%  
-- Flow 1:  
Average throughput: 60.88 Mbit/s  
95th percentile per-packet one-way delay: 74.963 ms  
Loss rate: 16.89%  
-- Flow 2:  
Average throughput: 35.01 Mbit/s  
95th percentile per-packet one-way delay: 75.824 ms  
Loss rate: 28.91%  
-- Flow 3:  
Average throughput: 32.98 Mbit/s  
95th percentile per-packet one-way delay: 79.807 ms  
Loss rate: 34.10%

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

Start at: 2018-07-10 04:12:09

End at: 2018-07-10 04:12:39

Local clock offset: 0.525 ms

Remote clock offset: -1.74 ms

# Below is generated by plot.py at 2018-07-10 08:16:42

# Datalink statistics

-- Total of 3 flows:

Average throughput: 94.92 Mbit/s

95th percentile per-packet one-way delay: 74.681 ms

Loss rate: 21.27%

-- Flow 1:

Average throughput: 60.19 Mbit/s

95th percentile per-packet one-way delay: 74.524 ms

Loss rate: 16.46%

-- Flow 2:

Average throughput: 36.51 Mbit/s

95th percentile per-packet one-way delay: 75.153 ms

Loss rate: 27.67%

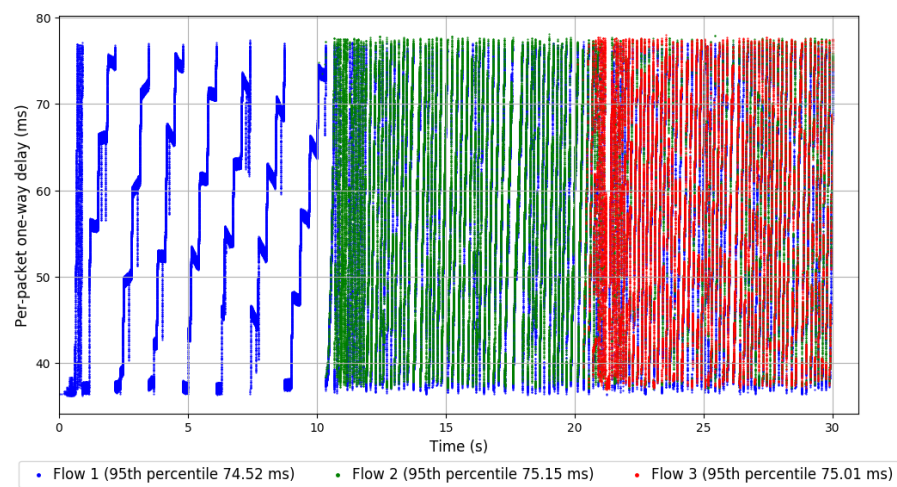
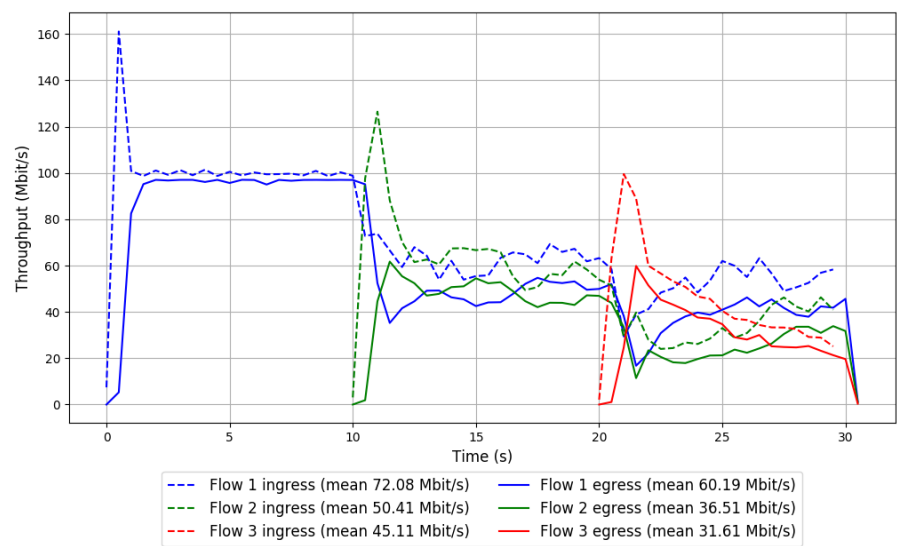
-- Flow 3:

Average throughput: 31.61 Mbit/s

95th percentile per-packet one-way delay: 75.013 ms

Loss rate: 30.10%

Run 2: Report of FillP-Sheep — Data Link



Run 3: Statistics of FillP-Sheep

Start at: 2018-07-10 04:40:37

End at: 2018-07-10 04:41:07

Local clock offset: 0.381 ms

Remote clock offset: 3.101 ms

# Below is generated by plot.py at 2018-07-10 08:16:44

# Datalink statistics

-- Total of 3 flows:

Average throughput: 94.84 Mbit/s

95th percentile per-packet one-way delay: 75.354 ms

Loss rate: 19.06%

-- Flow 1:

Average throughput: 59.22 Mbit/s

95th percentile per-packet one-way delay: 75.713 ms

Loss rate: 14.87%

-- Flow 2:

Average throughput: 38.61 Mbit/s

95th percentile per-packet one-way delay: 75.065 ms

Loss rate: 23.74%

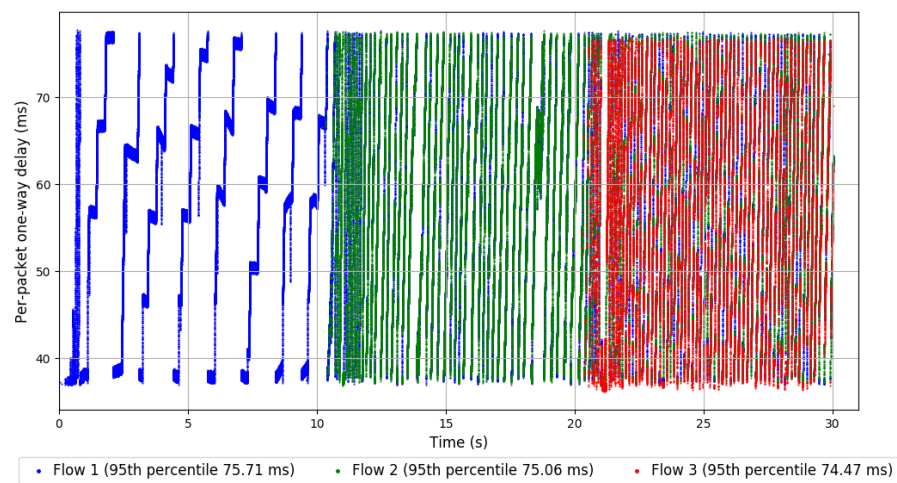
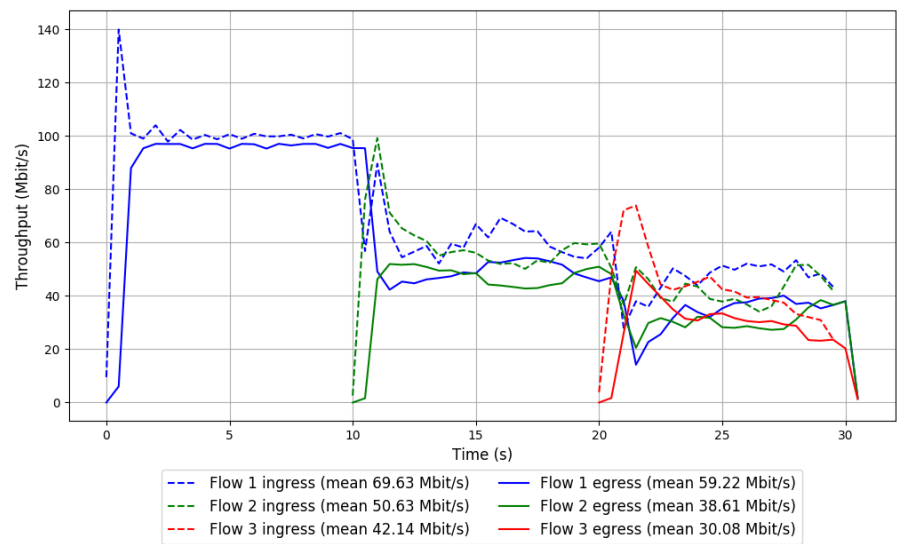
-- Flow 3:

Average throughput: 30.08 Mbit/s

95th percentile per-packet one-way delay: 74.467 ms

Loss rate: 28.65%

Run 3: Report of FillP-Sheep — Data Link



Run 4: Statistics of FillP-Sheep

Start at: 2018-07-10 05:08:25

End at: 2018-07-10 05:08:55

Local clock offset: 0.242 ms

Remote clock offset: 5.469 ms

# Below is generated by plot.py at 2018-07-10 08:16:52

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.03 Mbit/s

95th percentile per-packet one-way delay: 74.411 ms

Loss rate: 21.30%

-- Flow 1:

Average throughput: 56.43 Mbit/s

95th percentile per-packet one-way delay: 74.026 ms

Loss rate: 15.29%

-- Flow 2:

Average throughput: 42.17 Mbit/s

95th percentile per-packet one-way delay: 75.265 ms

Loss rate: 25.59%

-- Flow 3:

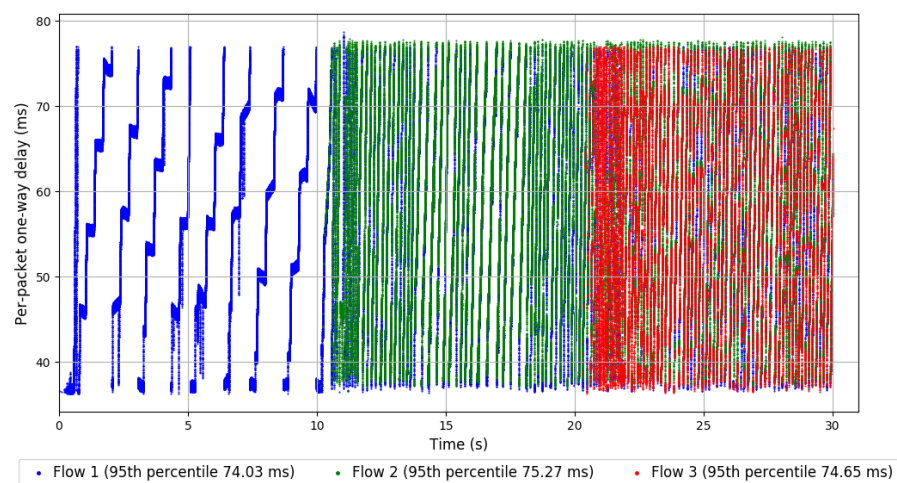
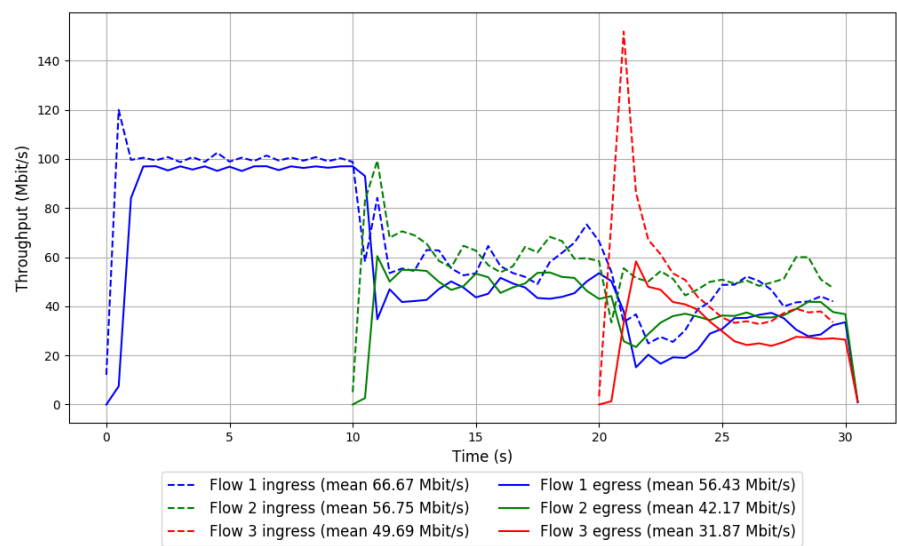
Average throughput: 31.87 Mbit/s

95th percentile per-packet one-way delay: 74.649 ms

Loss rate: 35.84%



Run 4: Report of FillP-Sheep — Data Link



Run 5: Statistics of FillP-Sheep

Start at: 2018-07-10 05:36:04

End at: 2018-07-10 05:36:34

Local clock offset: -0.099 ms

Remote clock offset: 5.311 ms

# Below is generated by plot.py at 2018-07-10 08:16:53

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.09 Mbit/s

95th percentile per-packet one-way delay: 75.204 ms

Loss rate: 21.53%

-- Flow 1:

Average throughput: 61.00 Mbit/s

95th percentile per-packet one-way delay: 75.362 ms

Loss rate: 16.47%

-- Flow 2:

Average throughput: 33.26 Mbit/s

95th percentile per-packet one-way delay: 74.657 ms

Loss rate: 28.09%

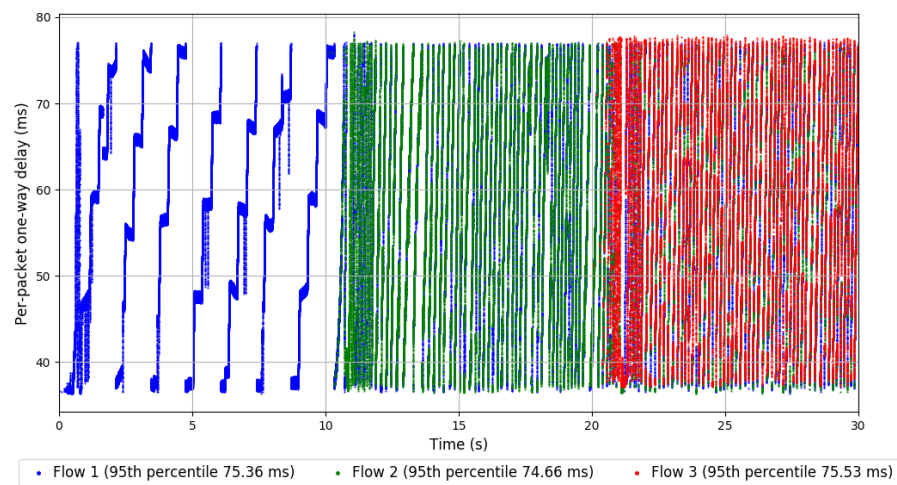
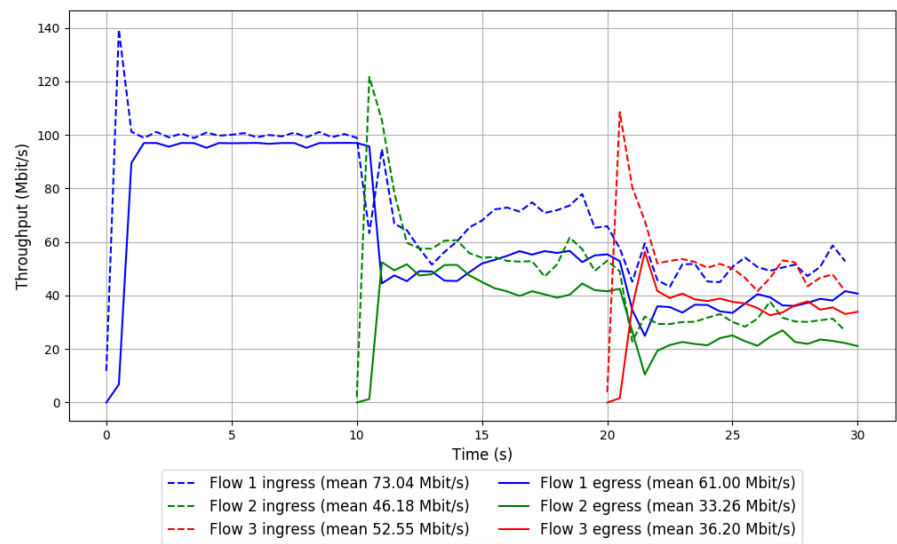
-- Flow 3:

Average throughput: 36.20 Mbit/s

95th percentile per-packet one-way delay: 75.529 ms

Loss rate: 31.19%

Run 5: Report of FillP-Sheep — Data Link



Run 6: Statistics of FillP-Sheep

Start at: 2018-07-10 06:02:42

End at: 2018-07-10 06:03:12

Local clock offset: -0.266 ms

Remote clock offset: 1.044 ms

# Below is generated by plot.py at 2018-07-10 08:17:05

# Datalink statistics

-- Total of 3 flows:

Average throughput: 94.74 Mbit/s

95th percentile per-packet one-way delay: 75.343 ms

Loss rate: 21.56%

-- Flow 1:

Average throughput: 58.26 Mbit/s

95th percentile per-packet one-way delay: 75.522 ms

Loss rate: 16.46%

-- Flow 2:

Average throughput: 37.74 Mbit/s

95th percentile per-packet one-way delay: 74.596 ms

Loss rate: 27.54%

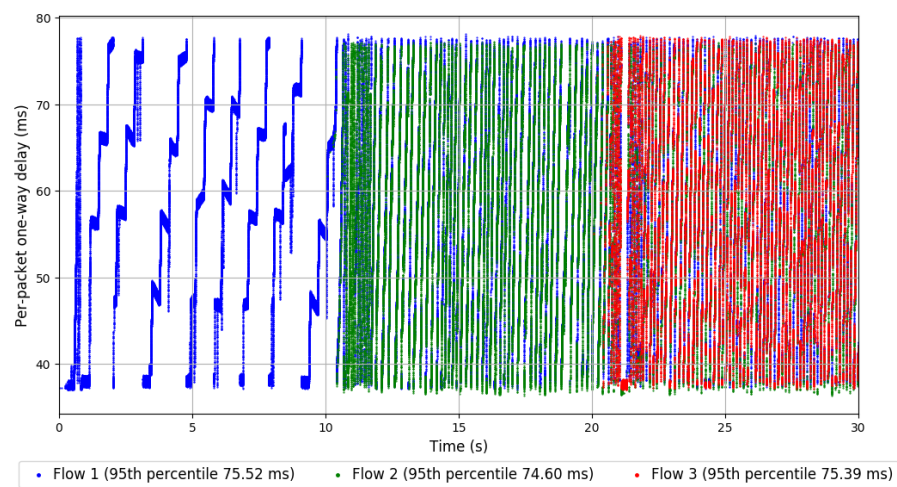
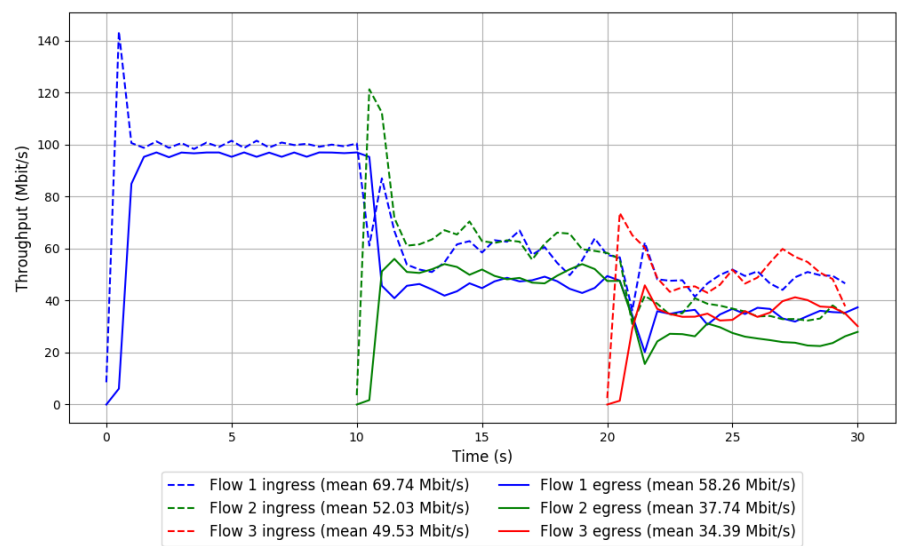
-- Flow 3:

Average throughput: 34.39 Mbit/s

95th percentile per-packet one-way delay: 75.394 ms

Loss rate: 30.65%

Run 6: Report of FillP-Sheep — Data Link



Run 7: Statistics of FillP-Sheep

Start at: 2018-07-10 06:28:58

End at: 2018-07-10 06:29:28

Local clock offset: -0.096 ms

Remote clock offset: 4.16 ms

# Below is generated by plot.py at 2018-07-10 08:17:43

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.12 Mbit/s

95th percentile per-packet one-way delay: 75.318 ms

Loss rate: 22.00%

-- Flow 1:

Average throughput: 61.32 Mbit/s

95th percentile per-packet one-way delay: 75.364 ms

Loss rate: 16.33%

-- Flow 2:

Average throughput: 35.47 Mbit/s

95th percentile per-packet one-way delay: 75.189 ms

Loss rate: 28.86%

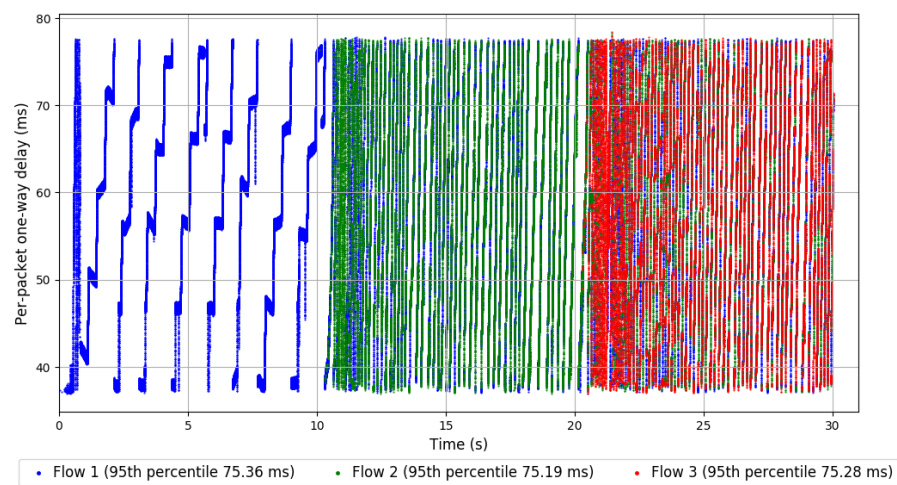
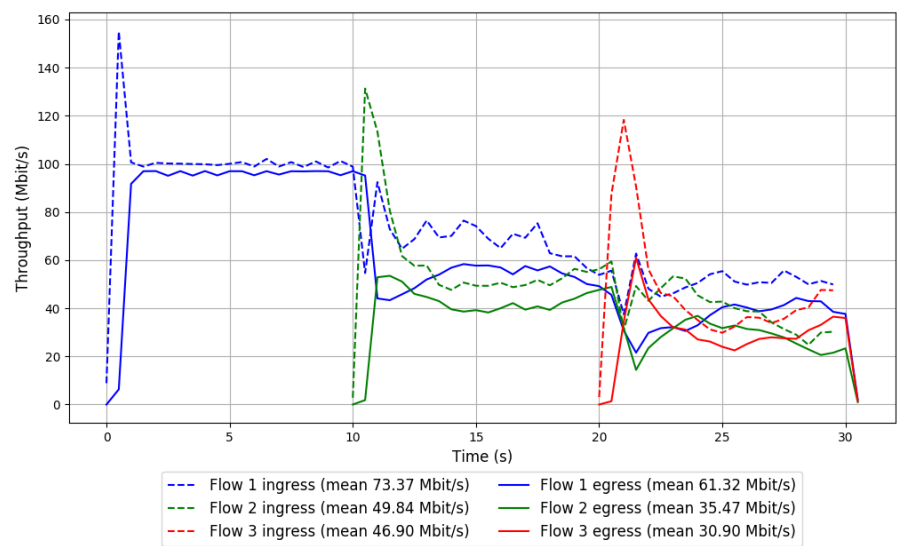
-- Flow 3:

Average throughput: 30.90 Mbit/s

95th percentile per-packet one-way delay: 75.284 ms

Loss rate: 34.12%

Run 7: Report of FillP-Sheep — Data Link



Run 8: Statistics of FillP-Sheep

Start at: 2018-07-10 06:54:02

End at: 2018-07-10 06:54:32

Local clock offset: 0.036 ms

Remote clock offset: 4.073 ms

# Below is generated by plot.py at 2018-07-10 08:18:03

# Datalink statistics

-- Total of 3 flows:

Average throughput: 94.98 Mbit/s

95th percentile per-packet one-way delay: 75.650 ms

Loss rate: 22.53%

-- Flow 1:

Average throughput: 56.94 Mbit/s

95th percentile per-packet one-way delay: 76.113 ms

Loss rate: 16.73%

-- Flow 2:

Average throughput: 41.19 Mbit/s

95th percentile per-packet one-way delay: 74.718 ms

Loss rate: 29.27%

-- Flow 3:

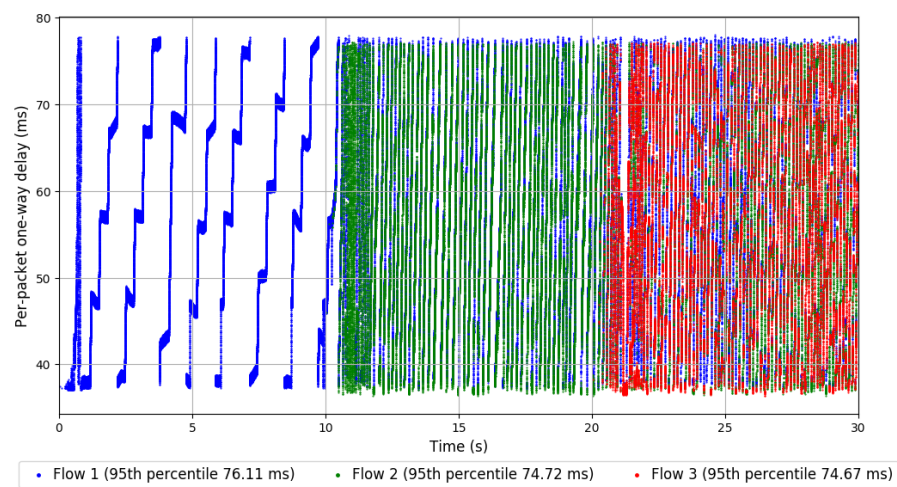
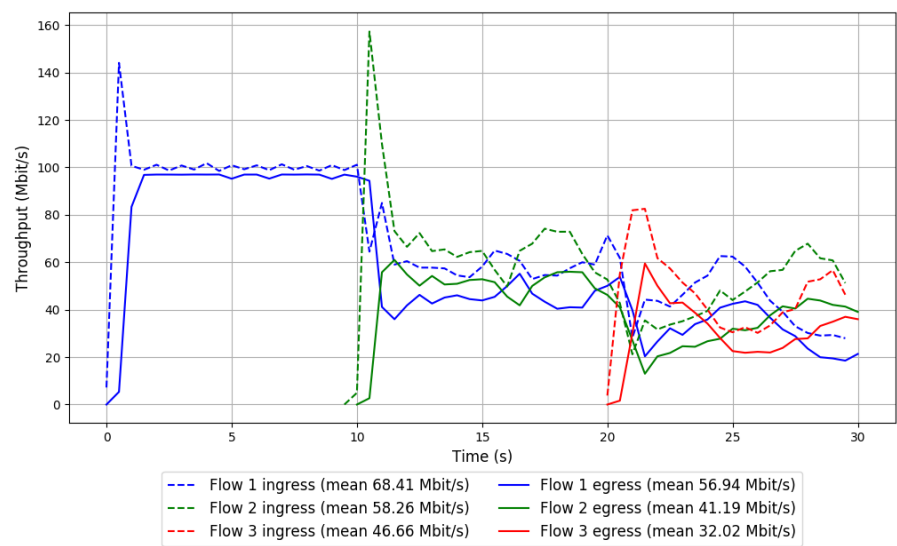
Average throughput: 32.02 Mbit/s

95th percentile per-packet one-way delay: 74.665 ms

Loss rate: 31.28%



Run 8: Report of FillP-Sheep — Data Link



Run 9: Statistics of FillP-Sheep

Start at: 2018-07-10 07:18:48

End at: 2018-07-10 07:19:18

Local clock offset: 0.123 ms

Remote clock offset: 3.974 ms

# Below is generated by plot.py at 2018-07-10 08:18:19

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.08 Mbit/s

95th percentile per-packet one-way delay: 75.289 ms

Loss rate: 21.13%

-- Flow 1:

Average throughput: 57.39 Mbit/s

95th percentile per-packet one-way delay: 75.202 ms

Loss rate: 15.17%

-- Flow 2:

Average throughput: 40.98 Mbit/s

95th percentile per-packet one-way delay: 75.360 ms

Loss rate: 28.12%

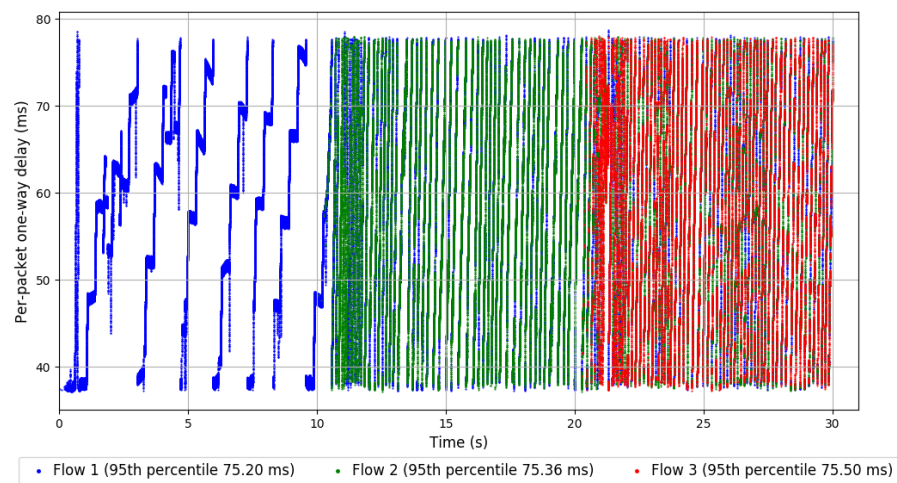
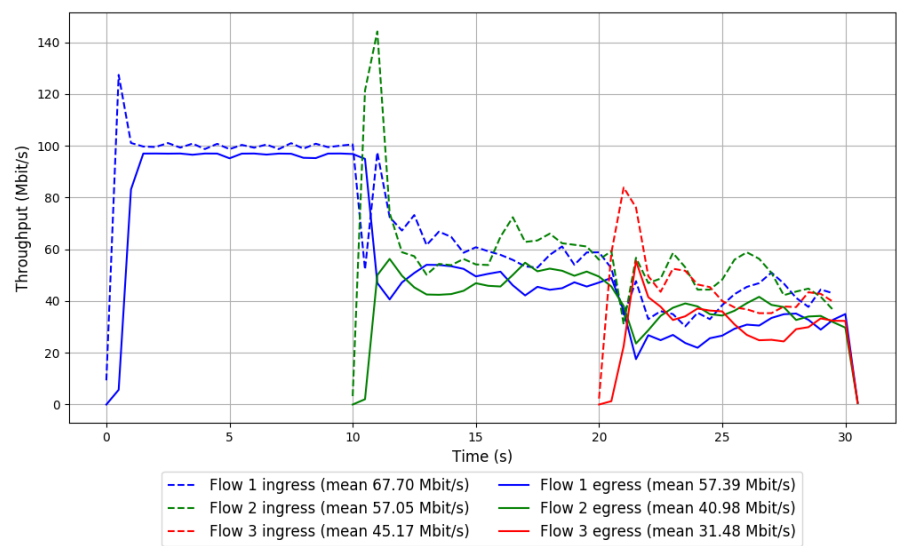
-- Flow 3:

Average throughput: 31.48 Mbit/s

95th percentile per-packet one-way delay: 75.505 ms

Loss rate: 30.33%

Run 9: Report of FillP-Sheep — Data Link



Run 10: Statistics of FillP-Sheep

Start at: 2018-07-10 07:44:36

End at: 2018-07-10 07:45:06

Local clock offset: 0.108 ms

Remote clock offset: 4.309 ms

# Below is generated by plot.py at 2018-07-10 08:18:19

# Datalink statistics

-- Total of 3 flows:

Average throughput: 94.74 Mbit/s

95th percentile per-packet one-way delay: 75.472 ms

Loss rate: 20.97%

-- Flow 1:

Average throughput: 57.93 Mbit/s

95th percentile per-packet one-way delay: 75.582 ms

Loss rate: 15.46%

-- Flow 2:

Average throughput: 39.28 Mbit/s

95th percentile per-packet one-way delay: 75.494 ms

Loss rate: 26.42%

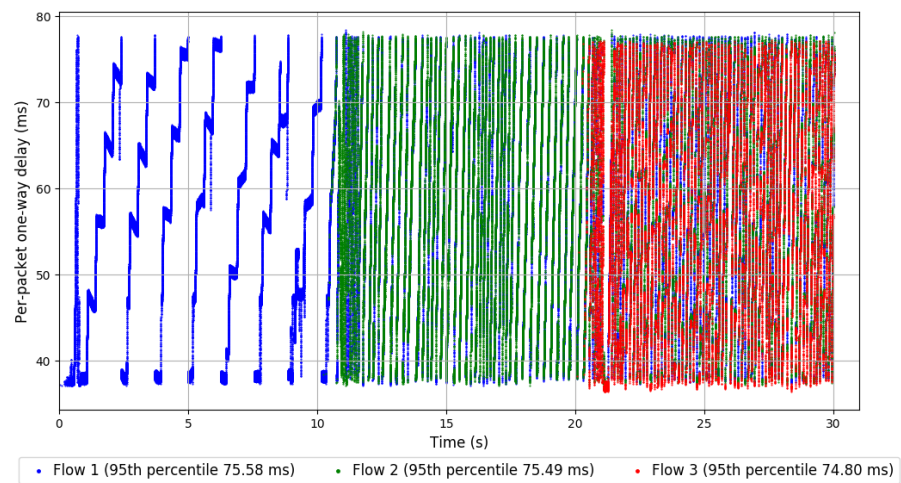
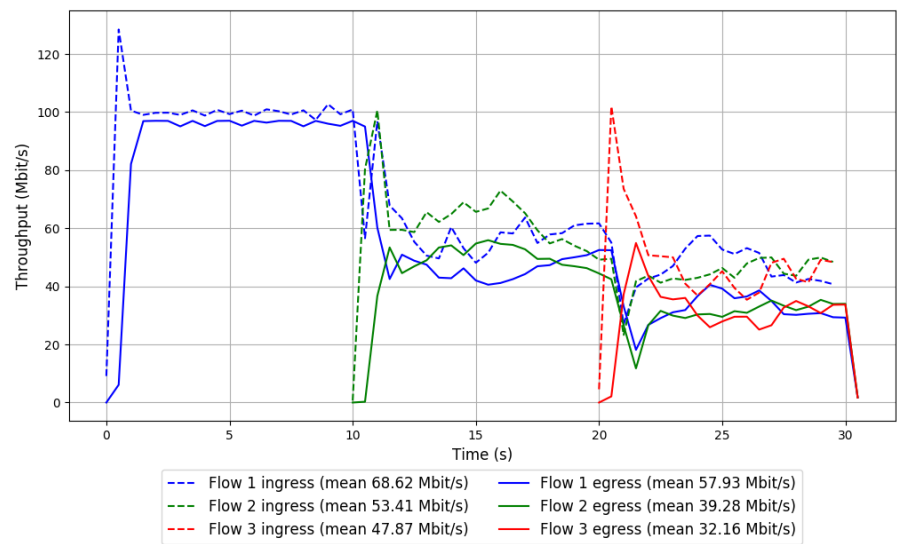
-- Flow 3:

Average throughput: 32.16 Mbit/s

95th percentile per-packet one-way delay: 74.797 ms

Loss rate: 32.57%

Run 10: Report of FillP-Sheep — Data Link

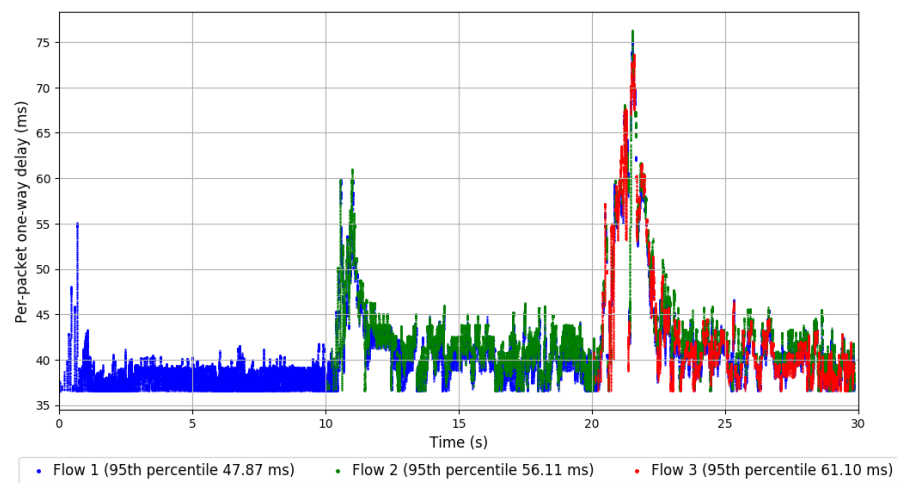
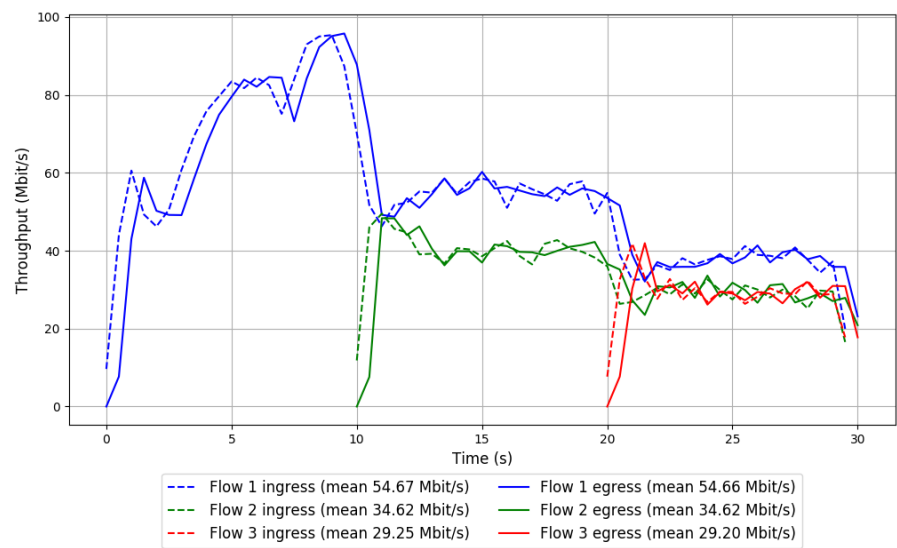


Run 1: Statistics of Indigo

Start at: 2018-07-10 03:51:32  
End at: 2018-07-10 03:52:02  
Local clock offset: 0.56 ms  
Remote clock offset: -0.861 ms

# Below is generated by plot.py at 2018-07-10 08:18:19  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 87.16 Mbit/s  
95th percentile per-packet one-way delay: 54.160 ms  
Loss rate: 0.04%  
-- Flow 1:  
Average throughput: 54.66 Mbit/s  
95th percentile per-packet one-way delay: 47.868 ms  
Loss rate: 0.02%  
-- Flow 2:  
Average throughput: 34.62 Mbit/s  
95th percentile per-packet one-way delay: 56.114 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 29.20 Mbit/s  
95th percentile per-packet one-way delay: 61.104 ms  
Loss rate: 0.20%

Run 1: Report of Indigo — Data Link



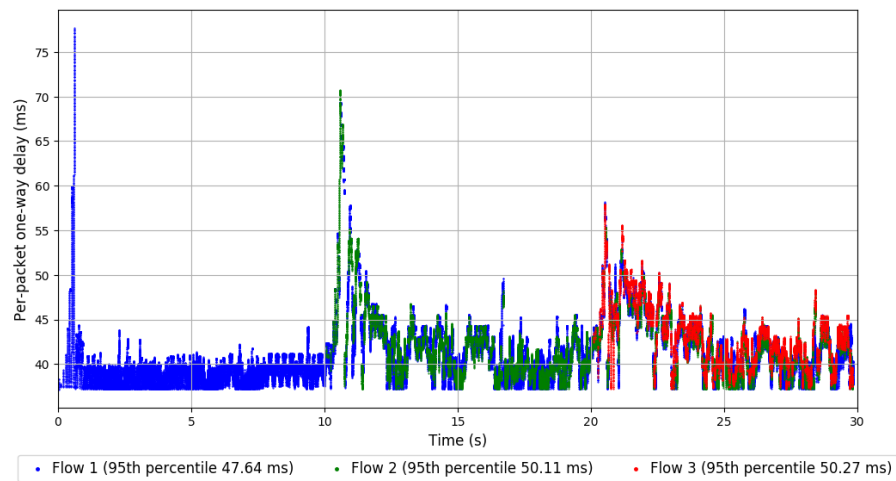
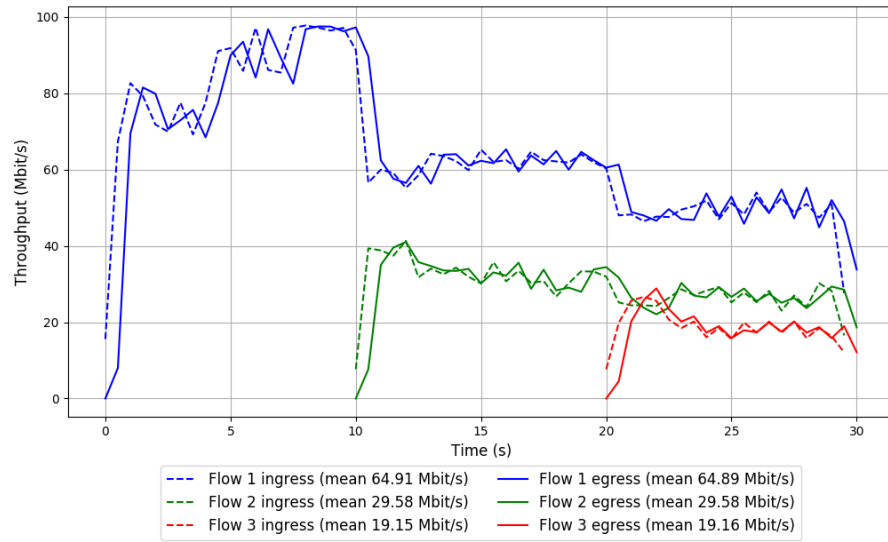
Run 2: Statistics of Indigo

Start at: 2018-07-10 04:20:37  
End at: 2018-07-10 04:21:07  
Local clock offset: 0.474 ms  
Remote clock offset: -1.994 ms

# Below is generated by plot.py at 2018-07-10 08:18:19  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 90.76 Mbit/s  
95th percentile per-packet one-way delay: 48.591 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 64.89 Mbit/s  
95th percentile per-packet one-way delay: 47.640 ms  
Loss rate: 0.02%  
-- Flow 2:  
Average throughput: 29.58 Mbit/s  
95th percentile per-packet one-way delay: 50.114 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 19.16 Mbit/s  
95th percentile per-packet one-way delay: 50.270 ms  
Loss rate: 0.00%



## Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-07-10 04:48:32

End at: 2018-07-10 04:49:02

Local clock offset: 0.372 ms

Remote clock offset: 4.703 ms

# Below is generated by plot.py at 2018-07-10 08:18:20

# Datalink statistics

-- Total of 3 flows:

Average throughput: 92.27 Mbit/s

95th percentile per-packet one-way delay: 56.860 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 64.99 Mbit/s

95th percentile per-packet one-way delay: 54.240 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 25.74 Mbit/s

95th percentile per-packet one-way delay: 58.746 ms

Loss rate: 0.00%

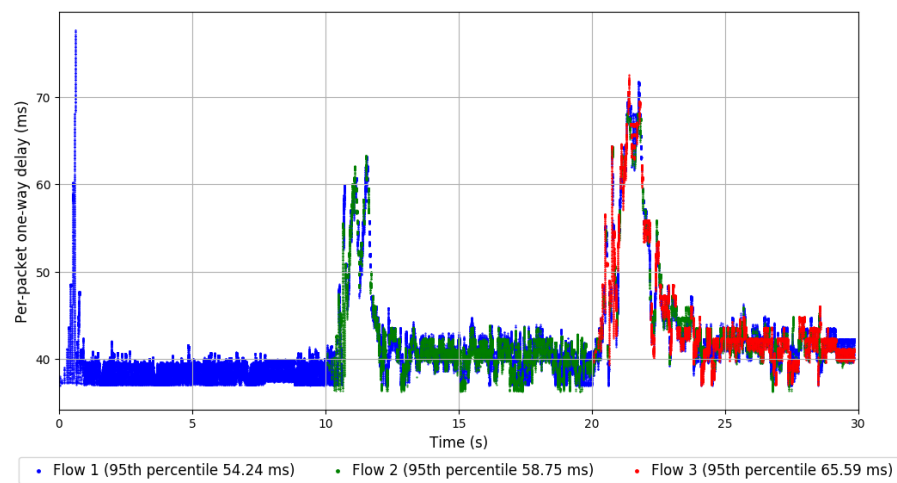
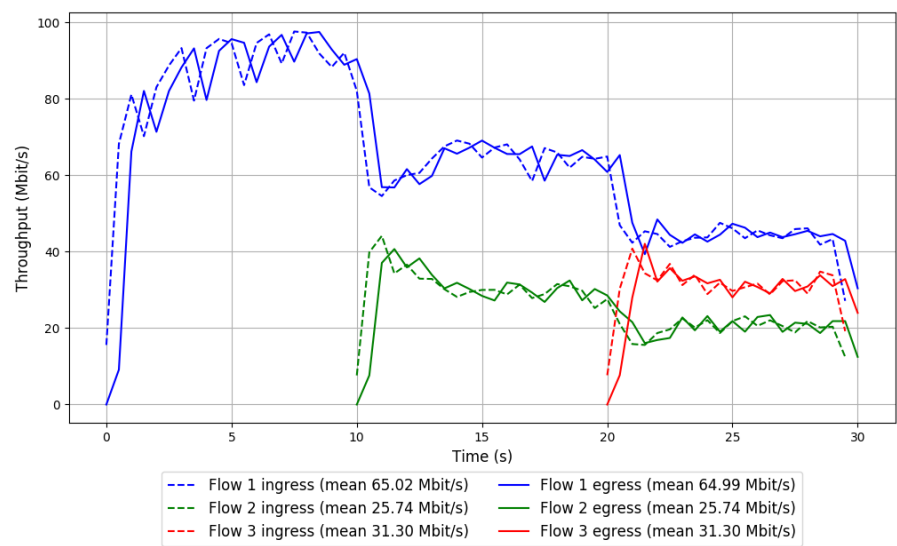
-- Flow 3:

Average throughput: 31.30 Mbit/s

95th percentile per-packet one-way delay: 65.592 ms

Loss rate: 0.00%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-07-10 05:16:30

End at: 2018-07-10 05:17:00

Local clock offset: 0.132 ms

Remote clock offset: 4.927 ms

# Below is generated by plot.py at 2018-07-10 08:18:20

# Datalink statistics

-- Total of 3 flows:

Average throughput: 90.38 Mbit/s

95th percentile per-packet one-way delay: 49.742 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 59.16 Mbit/s

95th percentile per-packet one-way delay: 47.991 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 35.63 Mbit/s

95th percentile per-packet one-way delay: 51.550 ms

Loss rate: 0.02%

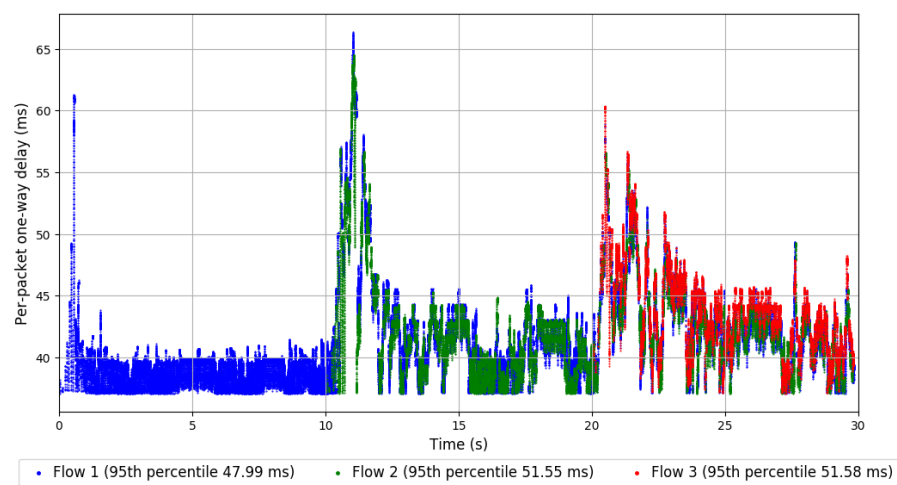
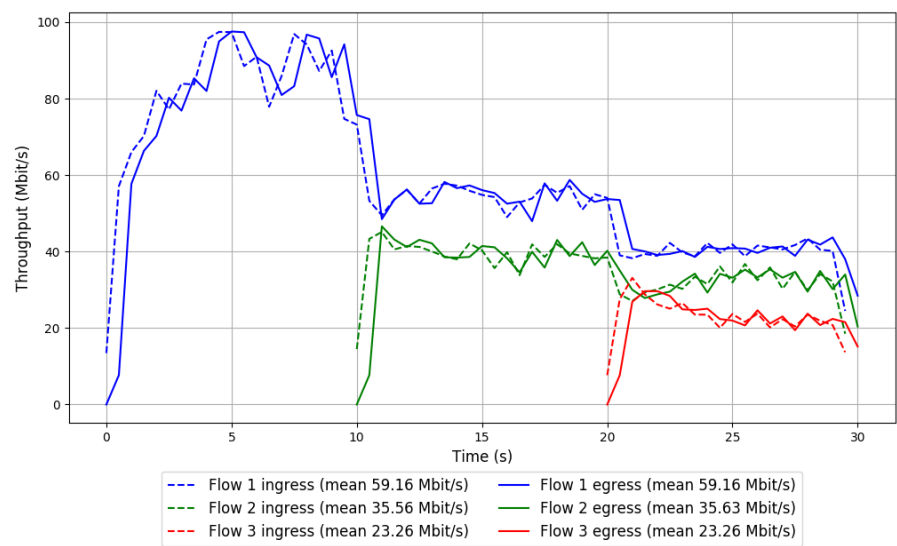
-- Flow 3:

Average throughput: 23.26 Mbit/s

95th percentile per-packet one-way delay: 51.575 ms

Loss rate: 0.00%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-07-10 05:43:55

End at: 2018-07-10 05:44:25

Local clock offset: -0.237 ms

Remote clock offset: 3.025 ms

# Below is generated by plot.py at 2018-07-10 08:19:01

# Datalink statistics

-- Total of 3 flows:

Average throughput: 92.94 Mbit/s

95th percentile per-packet one-way delay: 50.989 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 64.82 Mbit/s

95th percentile per-packet one-way delay: 48.471 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 30.83 Mbit/s

95th percentile per-packet one-way delay: 54.173 ms

Loss rate: 0.53%

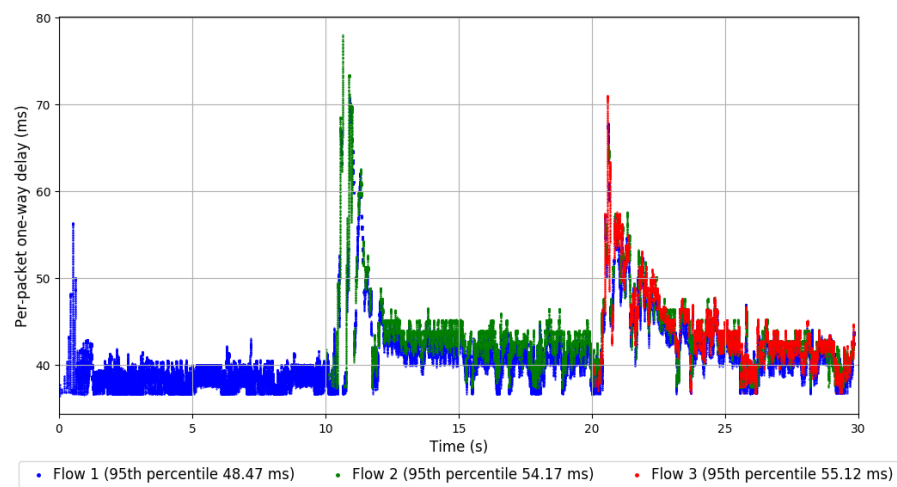
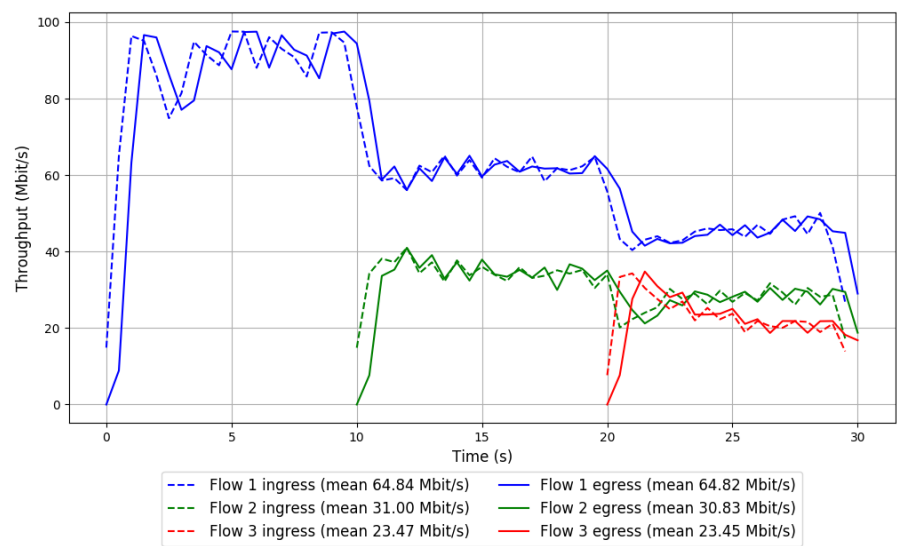
-- Flow 3:

Average throughput: 23.45 Mbit/s

95th percentile per-packet one-way delay: 55.118 ms

Loss rate: 0.00%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2018-07-10 06:10:34

End at: 2018-07-10 06:11:04

Local clock offset: -0.255 ms

Remote clock offset: 0.781 ms

# Below is generated by plot.py at 2018-07-10 08:19:05

# Datalink statistics

-- Total of 3 flows:

Average throughput: 92.56 Mbit/s

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

Loss rate: 0.38%

-- Flow 1:

Average throughput: 65.43 Mbit/s

95th percentile per-packet one-way delay: 48.759 ms

Loss rate: 0.36%

-- Flow 2:

Average throughput: 24.53 Mbit/s

95th percentile per-packet one-way delay: 51.153 ms

Loss rate: 0.38%

-- Flow 3:

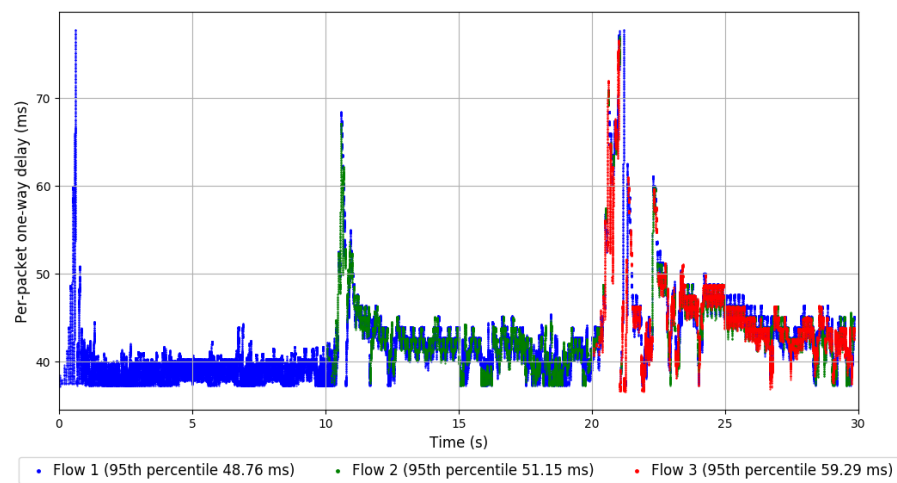
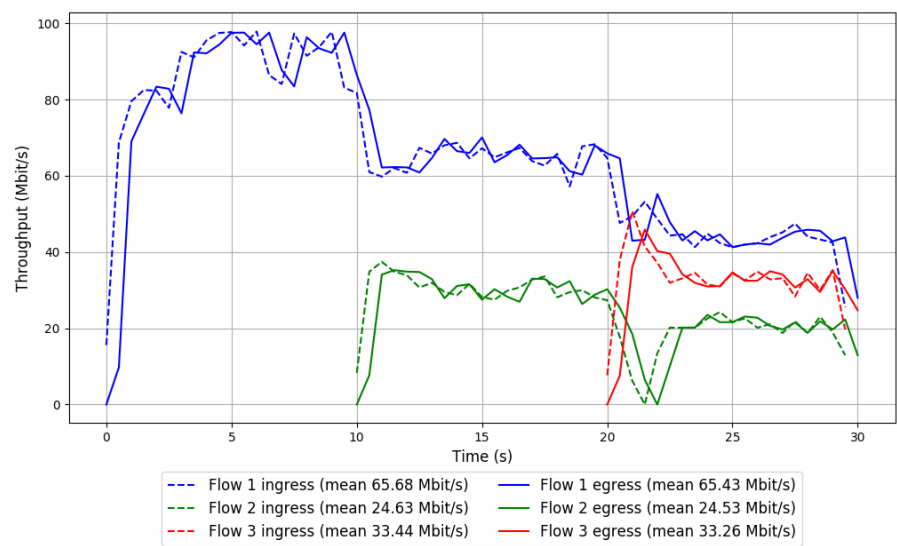
Average throughput: 33.26 Mbit/s

95th percentile per-packet one-way delay: 59.294 ms

Loss rate: 0.51%



Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2018-07-10 06:36:34

End at: 2018-07-10 06:37:04

Local clock offset: -0.024 ms

Remote clock offset: 4.862 ms

# Below is generated by plot.py at 2018-07-10 08:19:17

# Datalink statistics

-- Total of 3 flows:

Average throughput: 92.94 Mbit/s

95th percentile per-packet one-way delay: 56.490 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 63.77 Mbit/s

95th percentile per-packet one-way delay: 51.496 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 27.72 Mbit/s

95th percentile per-packet one-way delay: 58.682 ms

Loss rate: 0.00%

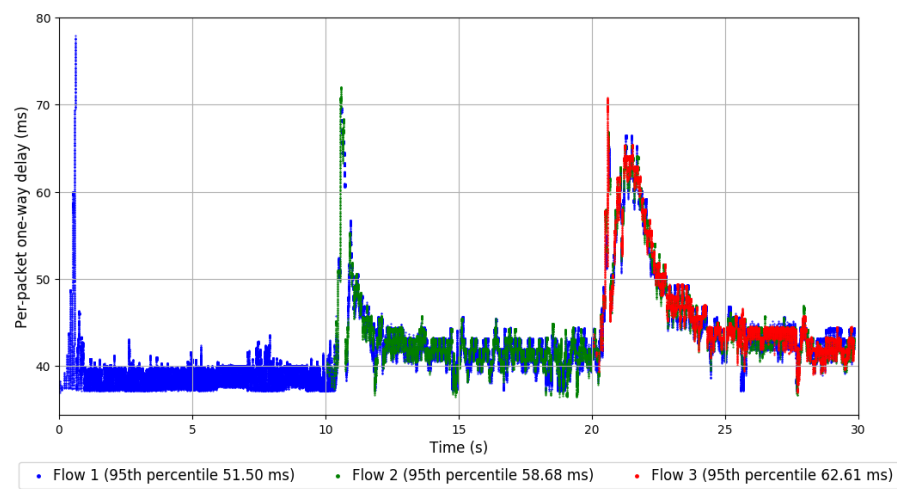
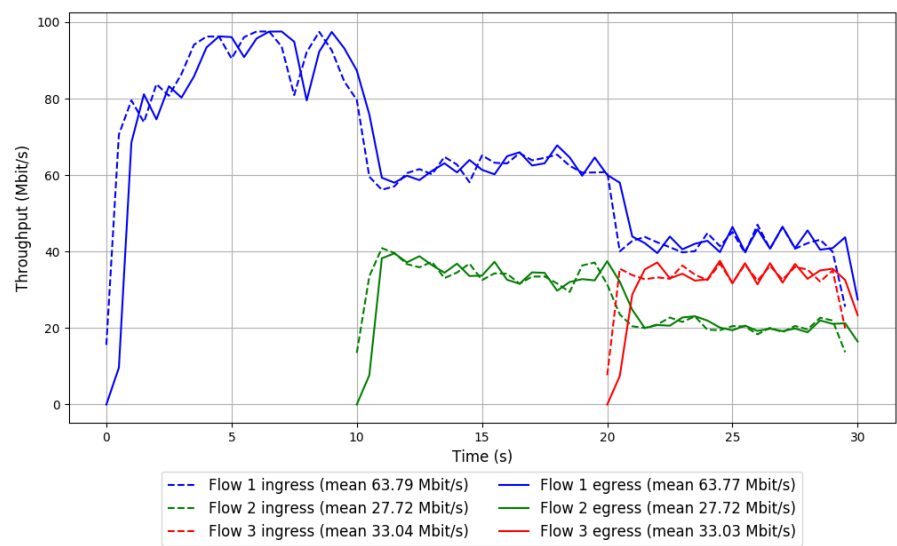
-- Flow 3:

Average throughput: 33.03 Mbit/s

95th percentile per-packet one-way delay: 62.607 ms

Loss rate: 0.00%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2018-07-10 07:00:51

End at: 2018-07-10 07:01:21

Local clock offset: 0.074 ms

Remote clock offset: 3.86 ms

# Below is generated by plot.py at 2018-07-10 08:19:20

# Datalink statistics

-- Total of 3 flows:

Average throughput: 94.87 Mbit/s

95th percentile per-packet one-way delay: 56.323 ms

Loss rate: 0.30%

-- Flow 1:

Average throughput: 65.13 Mbit/s

95th percentile per-packet one-way delay: 51.186 ms

Loss rate: 0.23%

-- Flow 2:

Average throughput: 31.38 Mbit/s

95th percentile per-packet one-way delay: 58.061 ms

Loss rate: 0.52%

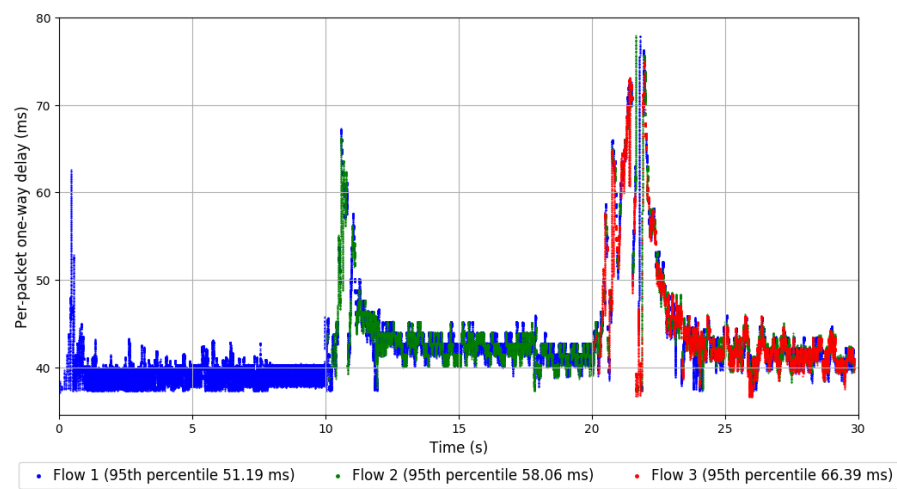
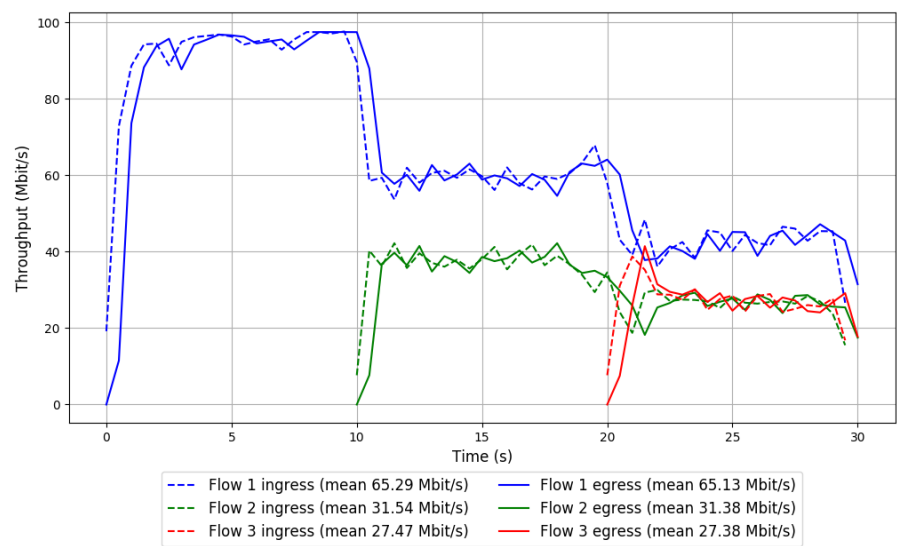
-- Flow 3:

Average throughput: 27.38 Mbit/s

95th percentile per-packet one-way delay: 66.395 ms

Loss rate: 0.36%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2018-07-10 07:26:14

End at: 2018-07-10 07:26:44

Local clock offset: 0.217 ms

Remote clock offset: 4.042 ms

# Below is generated by plot.py at 2018-07-10 08:19:20

# Datalink statistics

-- Total of 3 flows:

Average throughput: 92.01 Mbit/s

95th percentile per-packet one-way delay: 53.901 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 68.22 Mbit/s

95th percentile per-packet one-way delay: 47.775 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 22.73 Mbit/s

95th percentile per-packet one-way delay: 57.098 ms

Loss rate: 0.00%

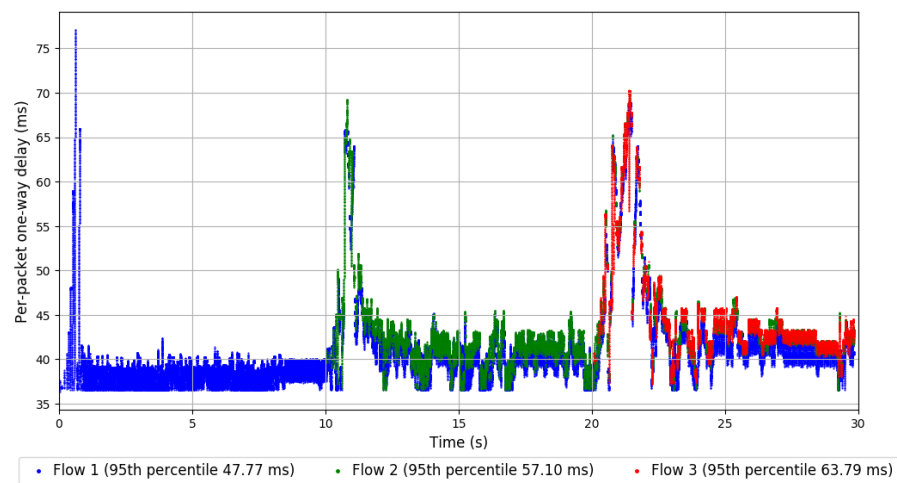
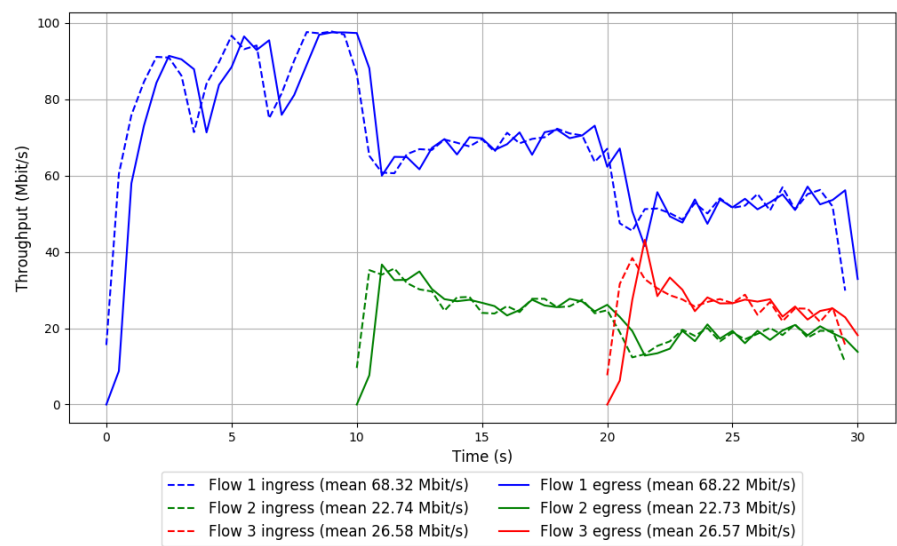
-- Flow 3:

Average throughput: 26.57 Mbit/s

95th percentile per-packet one-way delay: 63.789 ms

Loss rate: 0.00%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-07-10 07:51:54

End at: 2018-07-10 07:52:25

Local clock offset: 0.225 ms

Remote clock offset: 4.435 ms

# Below is generated by plot.py at 2018-07-10 08:19:38

# Datalink statistics

-- Total of 3 flows:

Average throughput: 94.13 Mbit/s

95th percentile per-packet one-way delay: 49.512 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 67.62 Mbit/s

95th percentile per-packet one-way delay: 48.385 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 30.57 Mbit/s

95th percentile per-packet one-way delay: 53.774 ms

Loss rate: 0.00%

-- Flow 3:

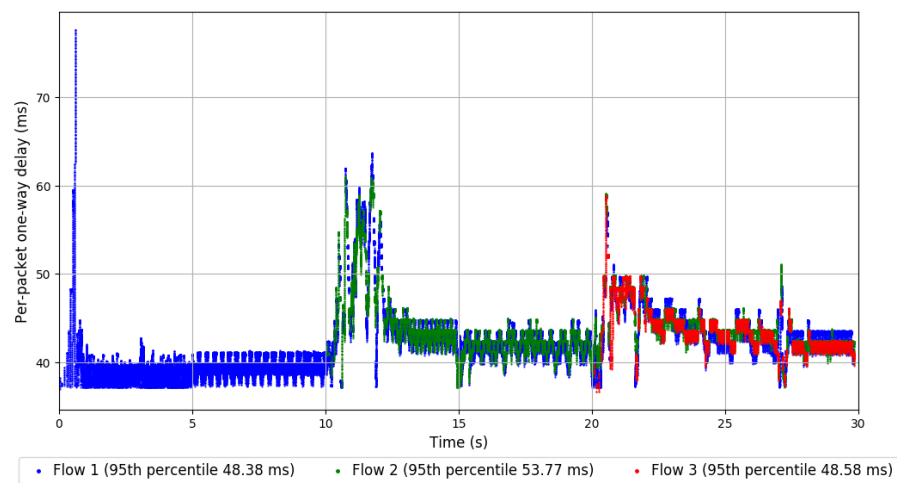
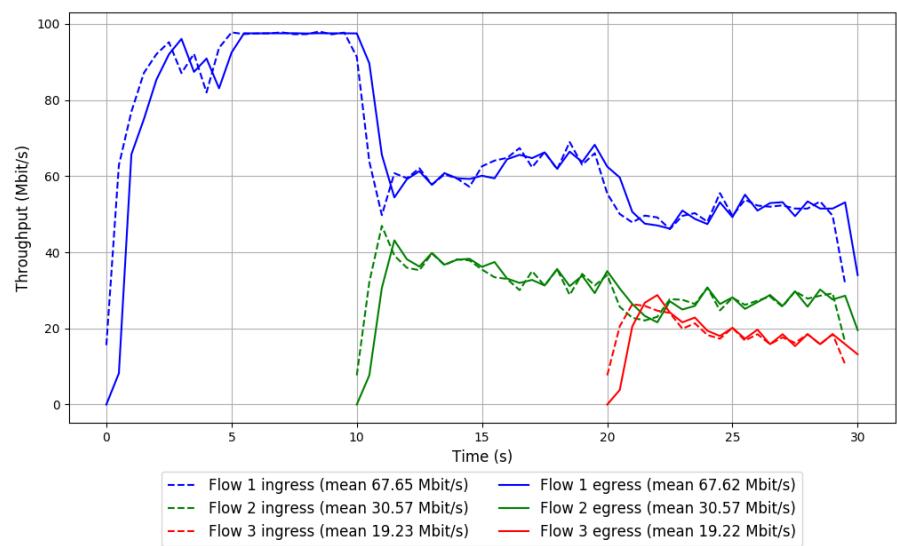
Average throughput: 19.22 Mbit/s

95th percentile per-packet one-way delay: 48.576 ms

Loss rate: 0.00%



Run 10: Report of Indigo — Data Link

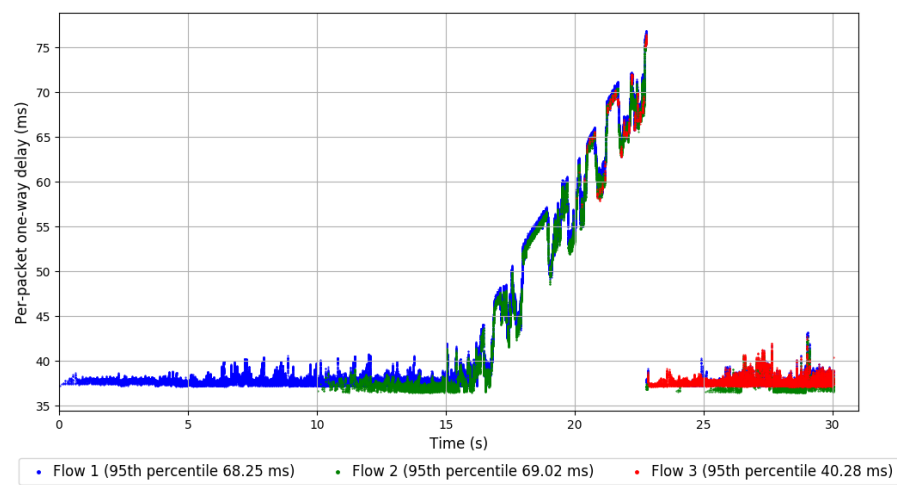
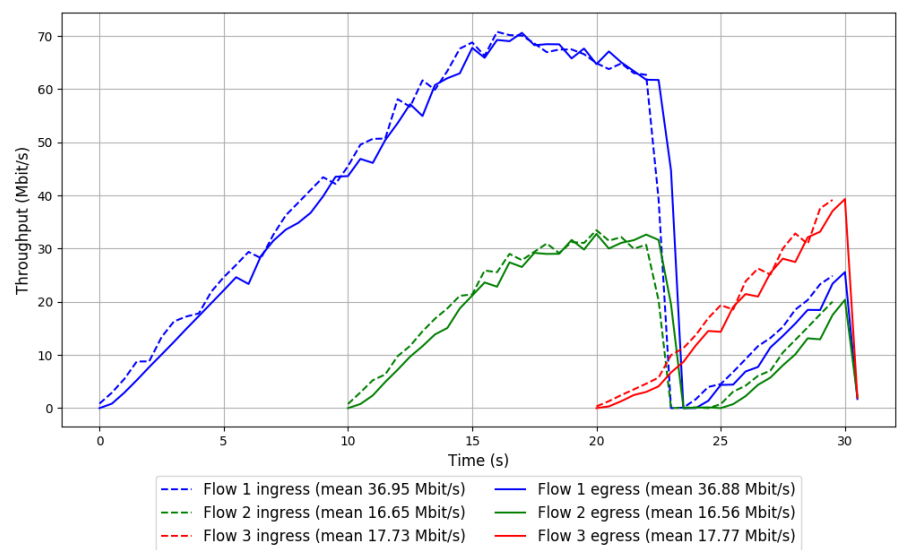


Run 1: Statistics of LEDBAT

Start at: 2018-07-10 04:02:59  
End at: 2018-07-10 04:03:29  
Local clock offset: 0.549 ms  
Remote clock offset: -1.417 ms

# Below is generated by plot.py at 2018-07-10 08:19:38  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 53.80 Mbit/s  
95th percentile per-packet one-way delay: 68.392 ms  
Loss rate: 0.24%  
-- Flow 1:  
Average throughput: 36.88 Mbit/s  
95th percentile per-packet one-way delay: 68.248 ms  
Loss rate: 0.19%  
-- Flow 2:  
Average throughput: 16.56 Mbit/s  
95th percentile per-packet one-way delay: 69.015 ms  
Loss rate: 0.55%  
-- Flow 3:  
Average throughput: 17.77 Mbit/s  
95th percentile per-packet one-way delay: 40.278 ms  
Loss rate: 0.00%

Run 1: Report of LEDBAT — Data Link

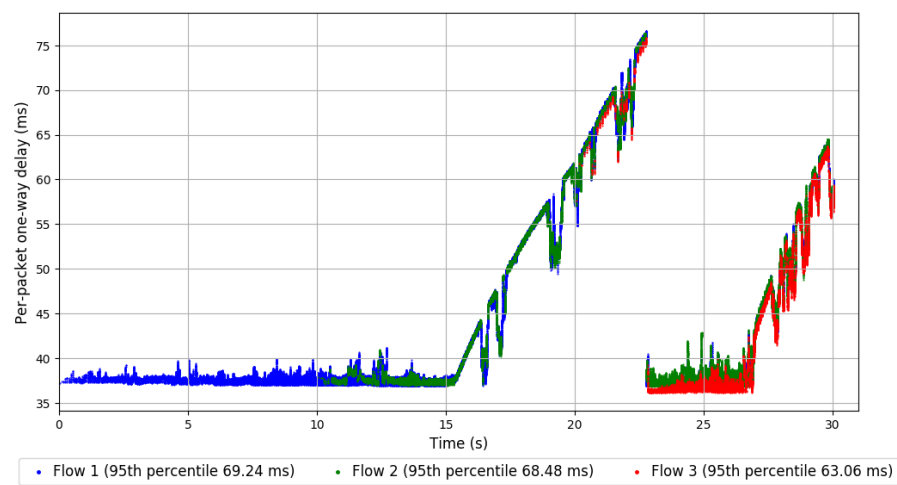
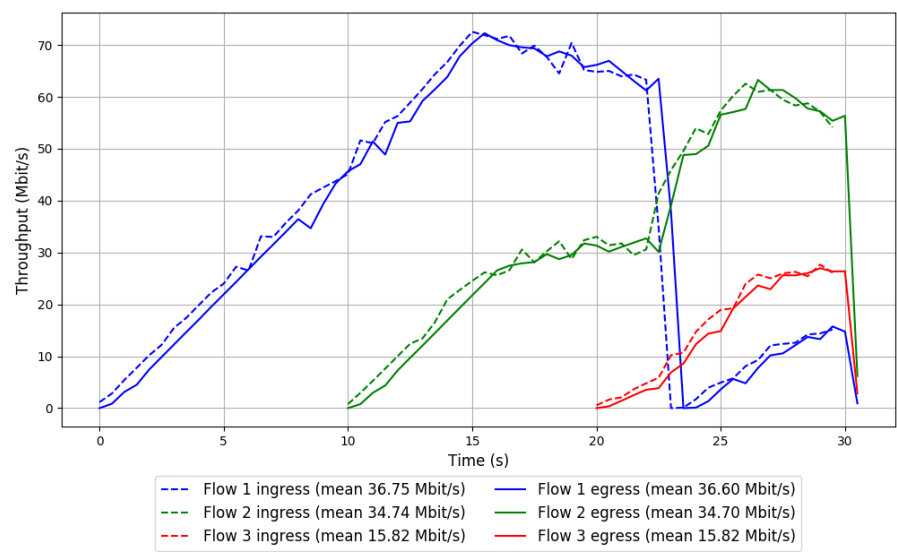


```
Run 2: Statistics of LEDBAT

Start at: 2018-07-10 04:31:31
End at: 2018-07-10 04:32:01
Local clock offset: 0.422 ms
Remote clock offset: -0.607 ms

# Below is generated by plot.py at 2018-07-10 08:19:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 64.98 Mbit/s
95th percentile per-packet one-way delay: 68.889 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 36.60 Mbit/s
95th percentile per-packet one-way delay: 69.239 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 34.70 Mbit/s
95th percentile per-packet one-way delay: 68.485 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 15.82 Mbit/s
95th percentile per-packet one-way delay: 63.062 ms
Loss rate: 0.00%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-07-10 04:59:25

End at: 2018-07-10 04:59:55

Local clock offset: 0.229 ms

Remote clock offset: 5.991 ms

# Below is generated by plot.py at 2018-07-10 08:19:46

# Datalink statistics

-- Total of 3 flows:

Average throughput: 55.78 Mbit/s

95th percentile per-packet one-way delay: 69.871 ms

Loss rate: 0.22%

-- Flow 1:

Average throughput: 38.18 Mbit/s

95th percentile per-packet one-way delay: 69.539 ms

Loss rate: 0.23%

-- Flow 2:

Average throughput: 18.44 Mbit/s

95th percentile per-packet one-way delay: 71.220 ms

Loss rate: 0.27%

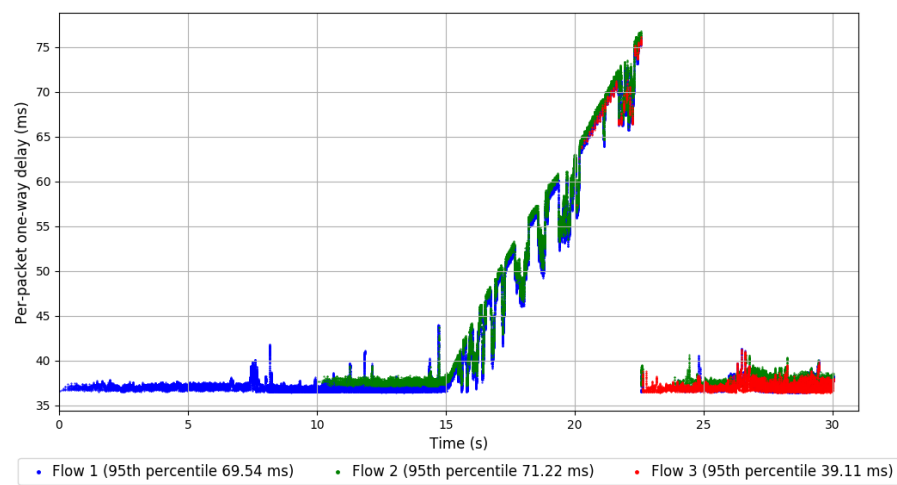
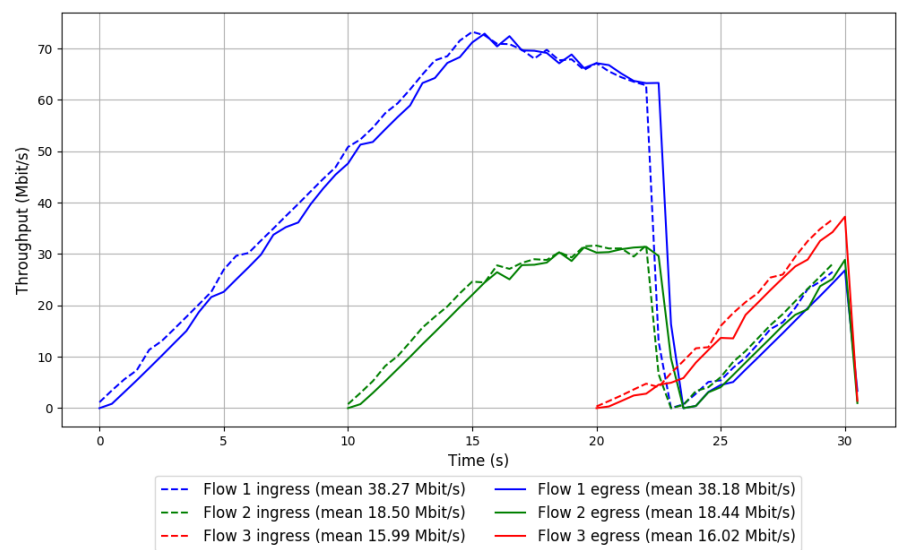
-- Flow 3:

Average throughput: 16.02 Mbit/s

95th percentile per-packet one-way delay: 39.107 ms

Loss rate: 0.01%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-07-10 05:27:22

End at: 2018-07-10 05:27:52

Local clock offset: 0.02 ms

Remote clock offset: 5.057 ms

# Below is generated by plot.py at 2018-07-10 08:19:49

# Datalink statistics

-- Total of 3 flows:

Average throughput: 56.06 Mbit/s

95th percentile per-packet one-way delay: 62.161 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 36.70 Mbit/s

95th percentile per-packet one-way delay: 62.111 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 18.41 Mbit/s

95th percentile per-packet one-way delay: 63.744 ms

Loss rate: 0.09%

-- Flow 3:

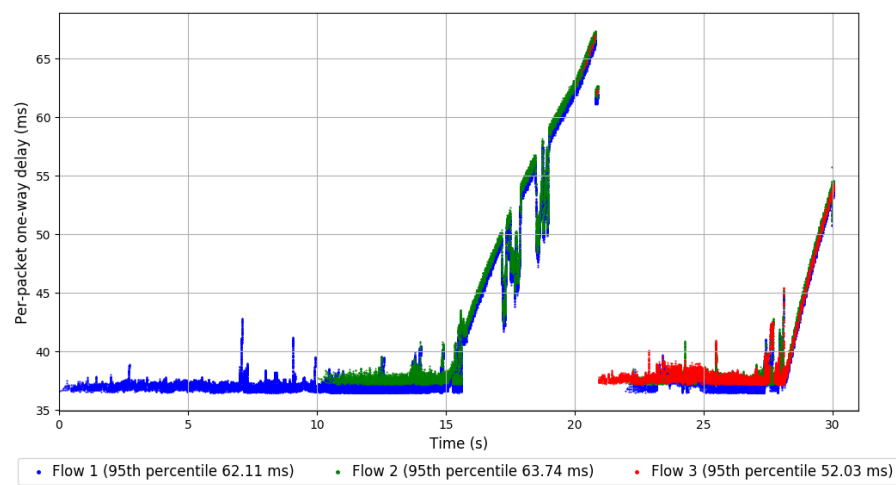
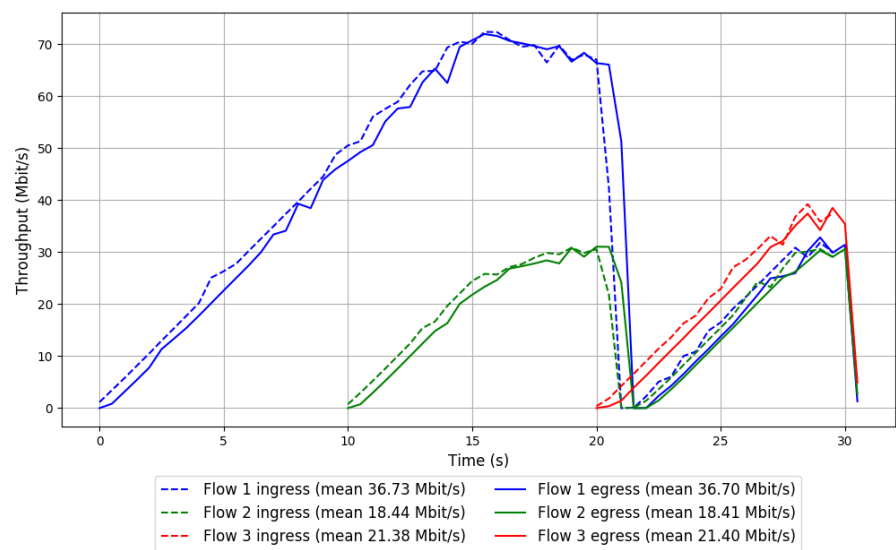
Average throughput: 21.40 Mbit/s

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

Loss rate: 0.00%



Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-07-10 05:54:30

End at: 2018-07-10 05:55:00

Local clock offset: -0.221 ms

Remote clock offset: 1.572 ms

# Below is generated by plot.py at 2018-07-10 08:19:52

# Datalink statistics

-- Total of 3 flows:

Average throughput: 55.16 Mbit/s

95th percentile per-packet one-way delay: 72.140 ms

Loss rate: 0.21%

-- Flow 1:

Average throughput: 37.71 Mbit/s

95th percentile per-packet one-way delay: 71.408 ms

Loss rate: 0.17%

-- Flow 2:

Average throughput: 18.57 Mbit/s

95th percentile per-packet one-way delay: 73.674 ms

Loss rate: 0.41%

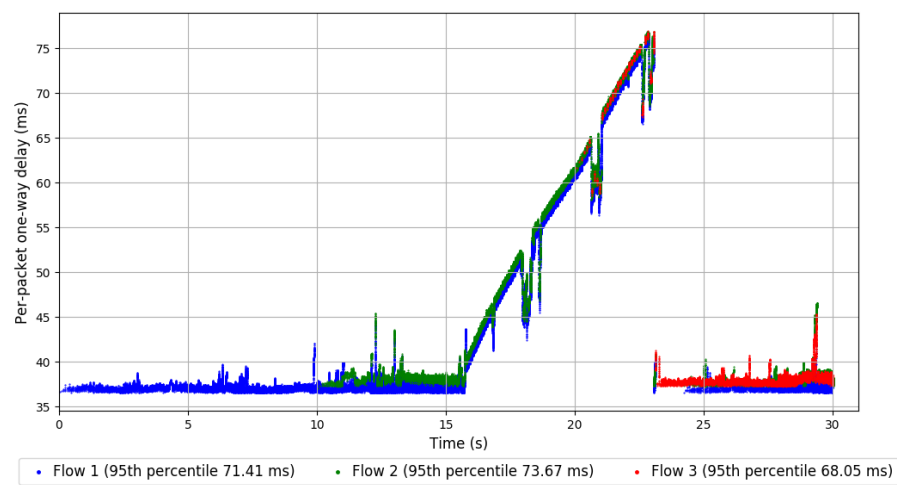
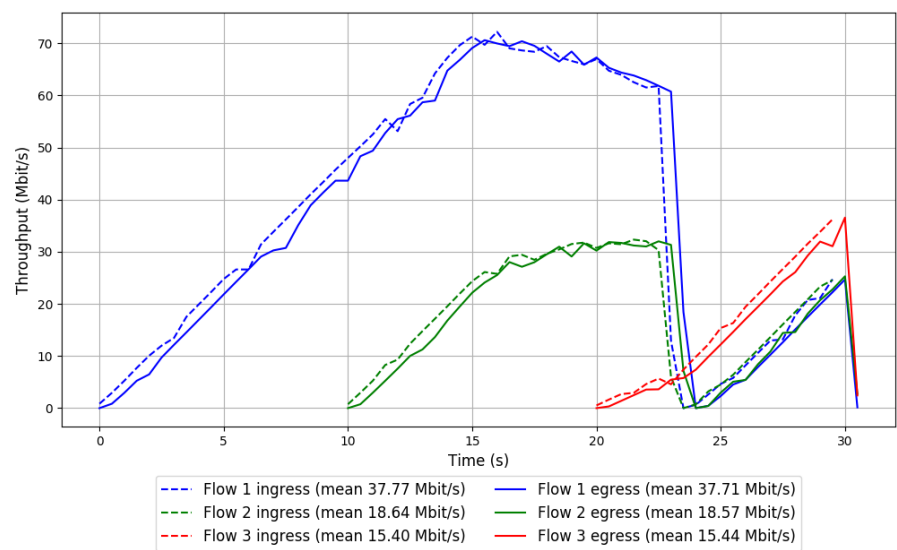
-- Flow 3:

Average throughput: 15.44 Mbit/s

95th percentile per-packet one-way delay: 68.046 ms

Loss rate: 0.01%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-07-10 06:20:58

End at: 2018-07-10 06:21:28

Local clock offset: -0.161 ms

Remote clock offset: 3.206 ms

# Below is generated by plot.py at 2018-07-10 08:20:06

# Datalink statistics

-- Total of 3 flows:

Average throughput: 62.83 Mbit/s

95th percentile per-packet one-way delay: 72.137 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 58.64 Mbit/s

95th percentile per-packet one-way delay: 71.768 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 37.901 ms

Loss rate: 0.00%

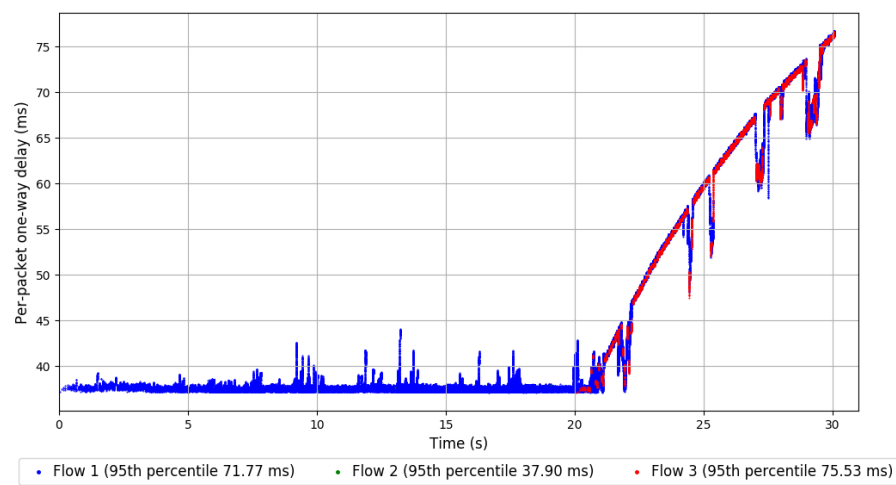
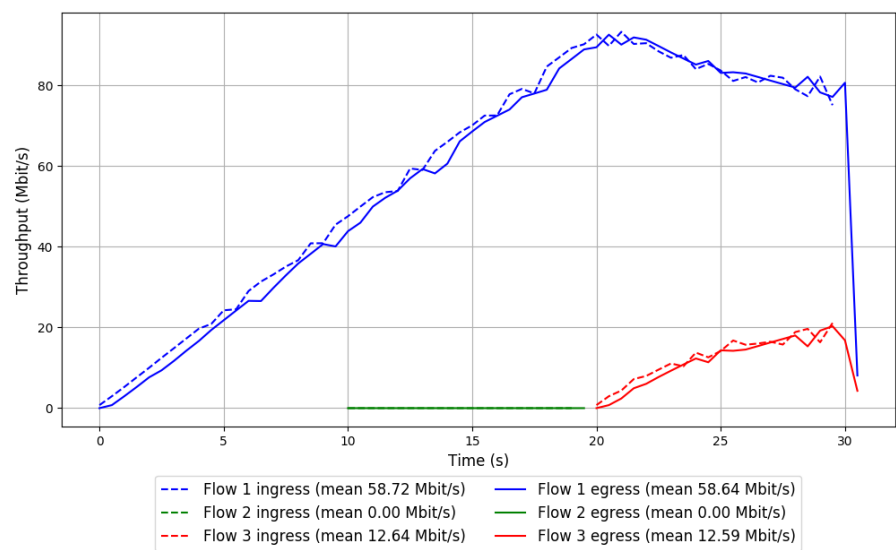
-- Flow 3:

Average throughput: 12.59 Mbit/s

95th percentile per-packet one-way delay: 75.535 ms

Loss rate: 0.00%

Run 6: Report of LEDBAT — Data Link

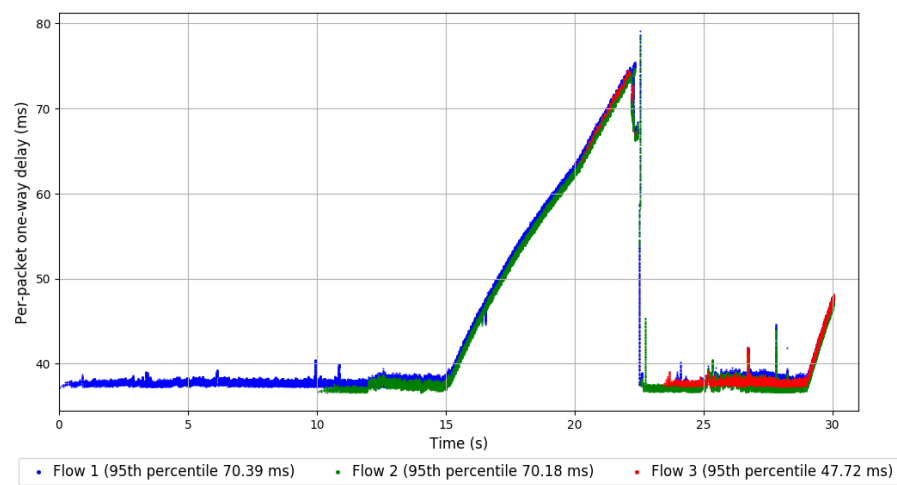
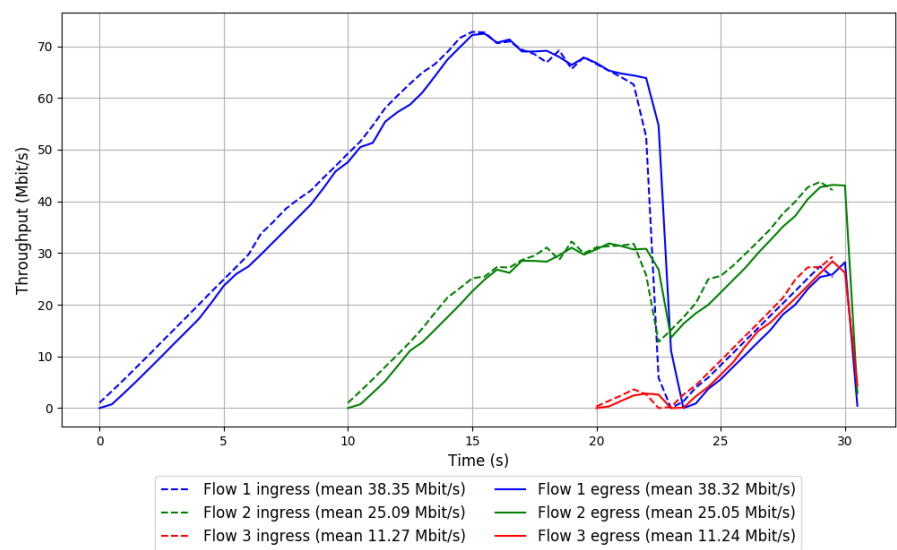


Run 7: Statistics of LEDBAT

Start at: 2018-07-10 06:46:30  
End at: 2018-07-10 06:47:00  
Local clock offset: -0.014 ms  
Remote clock offset: 5.184 ms

# Below is generated by plot.py at 2018-07-10 08:20:06  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 58.70 Mbit/s  
95th percentile per-packet one-way delay: 70.192 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 38.32 Mbit/s  
95th percentile per-packet one-way delay: 70.388 ms  
Loss rate: 0.04%  
-- Flow 2:  
Average throughput: 25.05 Mbit/s  
95th percentile per-packet one-way delay: 70.180 ms  
Loss rate: 0.12%  
-- Flow 3:  
Average throughput: 11.24 Mbit/s  
95th percentile per-packet one-way delay: 47.721 ms  
Loss rate: 0.40%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-07-10 07:11:11

End at: 2018-07-10 07:11:41

Local clock offset: 0.119 ms

Remote clock offset: 3.821 ms

# Below is generated by plot.py at 2018-07-10 08:20:06

# Datalink statistics

-- Total of 3 flows:

Average throughput: 53.80 Mbit/s

95th percentile per-packet one-way delay: 71.659 ms

Loss rate: 0.24%

-- Flow 1:

Average throughput: 38.10 Mbit/s

95th percentile per-packet one-way delay: 70.744 ms

Loss rate: 0.24%

-- Flow 2:

Average throughput: 18.79 Mbit/s

95th percentile per-packet one-way delay: 72.444 ms

Loss rate: 0.18%

-- Flow 3:

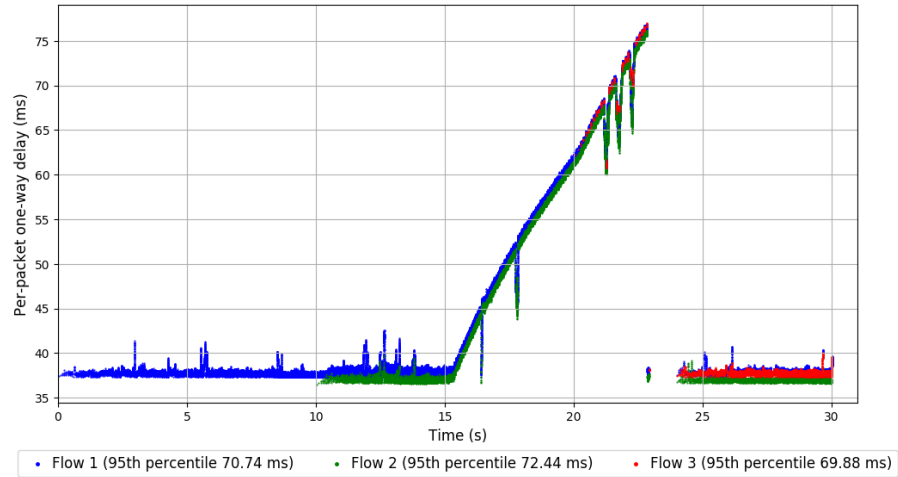
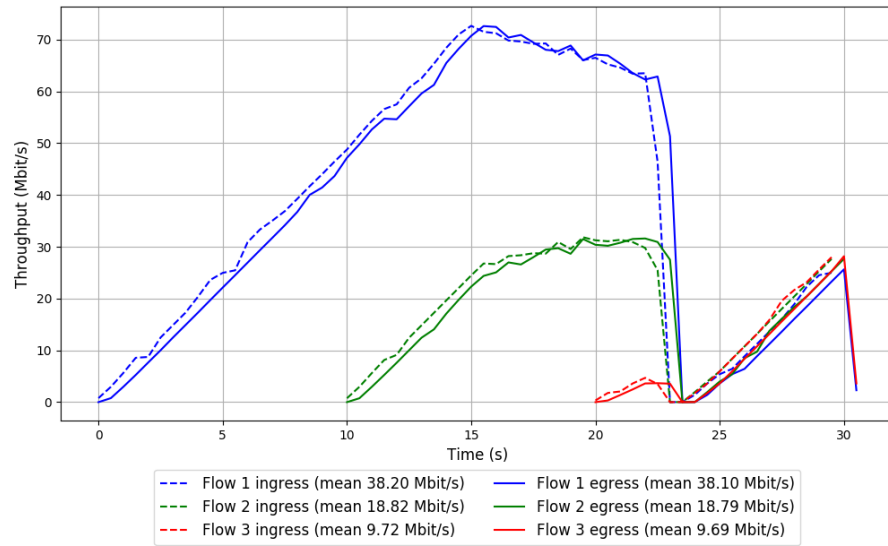
Average throughput: 9.69 Mbit/s

95th percentile per-packet one-way delay: 69.880 ms

Loss rate: 0.50%



# Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-07-10 07:36:33

End at: 2018-07-10 07:37:03

Local clock offset: 0.111 ms

Remote clock offset: 4.276 ms

# Below is generated by plot.py at 2018-07-10 08:20:14

# Datalink statistics

-- Total of 3 flows:

Average throughput: 64.82 Mbit/s

95th percentile per-packet one-way delay: 70.455 ms

Loss rate: 0.20%

-- Flow 1:

Average throughput: 37.63 Mbit/s

95th percentile per-packet one-way delay: 70.797 ms

Loss rate: 0.29%

-- Flow 2:

Average throughput: 36.49 Mbit/s

95th percentile per-packet one-way delay: 69.629 ms

Loss rate: 0.00%

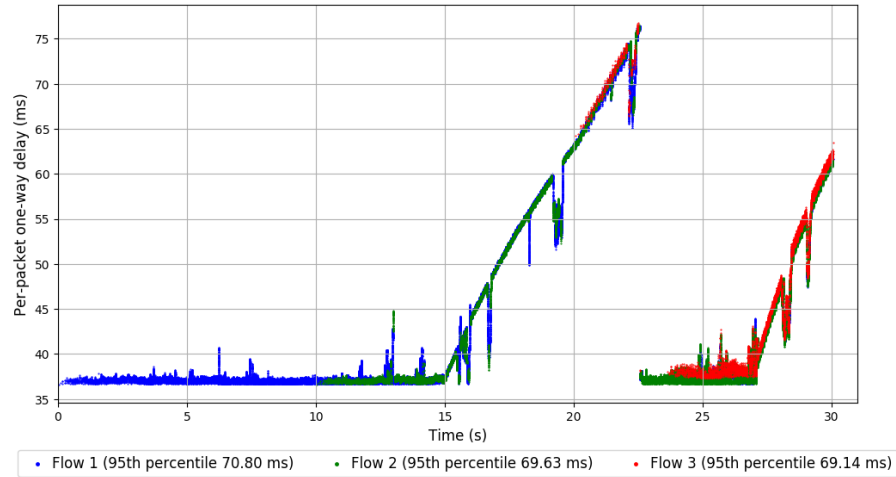
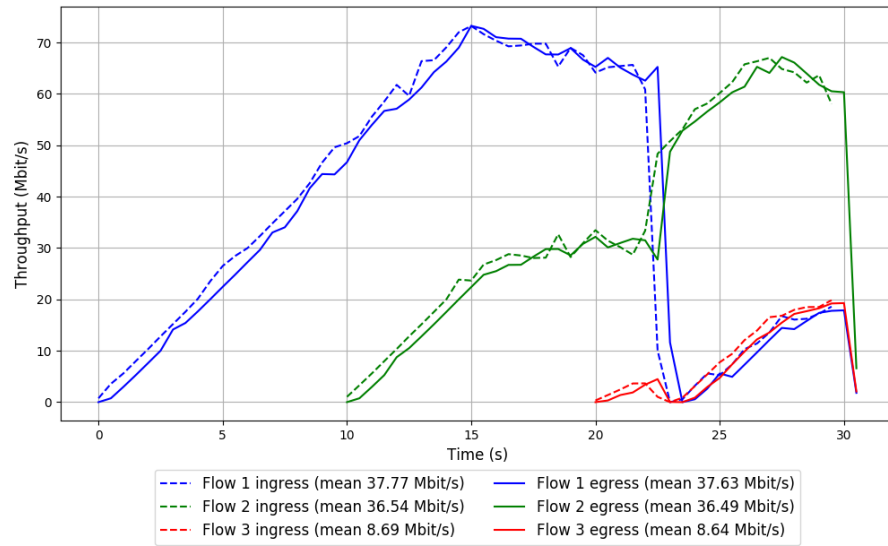
-- Flow 3:

Average throughput: 8.64 Mbit/s

95th percentile per-packet one-way delay: 69.143 ms

Loss rate: 0.60%

# Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-07-10 08:02:37

End at: 2018-07-10 08:03:07

Local clock offset: 0.217 ms

Remote clock offset: 3.057 ms

# Below is generated by plot.py at 2018-07-10 08:20:25

# Datalink statistics

-- Total of 3 flows:

Average throughput: 56.20 Mbit/s

95th percentile per-packet one-way delay: 70.216 ms

Loss rate: 0.23%

-- Flow 1:

Average throughput: 38.52 Mbit/s

95th percentile per-packet one-way delay: 69.943 ms

Loss rate: 0.21%

-- Flow 2:

Average throughput: 18.28 Mbit/s

95th percentile per-packet one-way delay: 71.415 ms

Loss rate: 0.36%

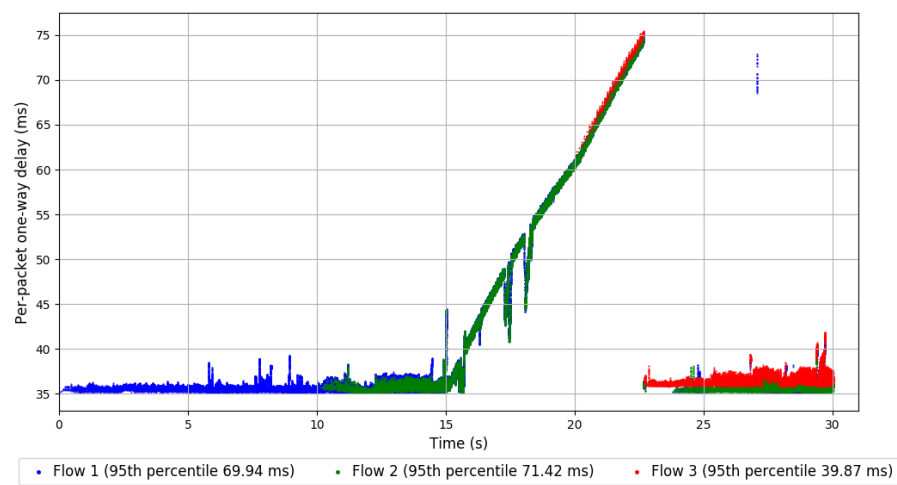
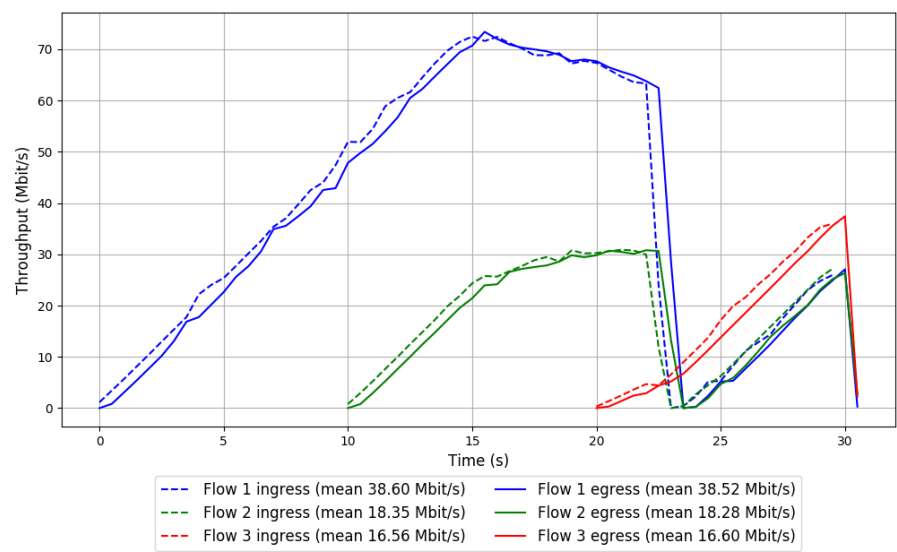
-- Flow 3:

Average throughput: 16.60 Mbit/s

95th percentile per-packet one-way delay: 39.866 ms

Loss rate: 0.06%

Run 10: Report of LEDBAT — Data Link

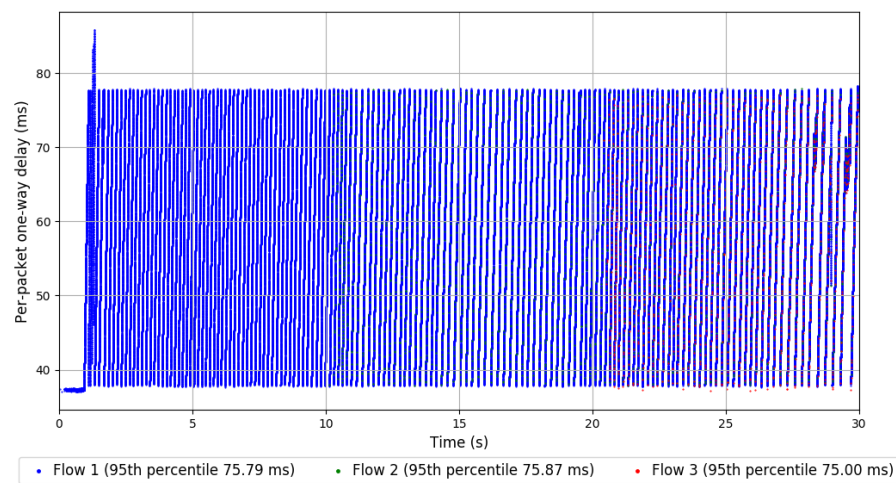
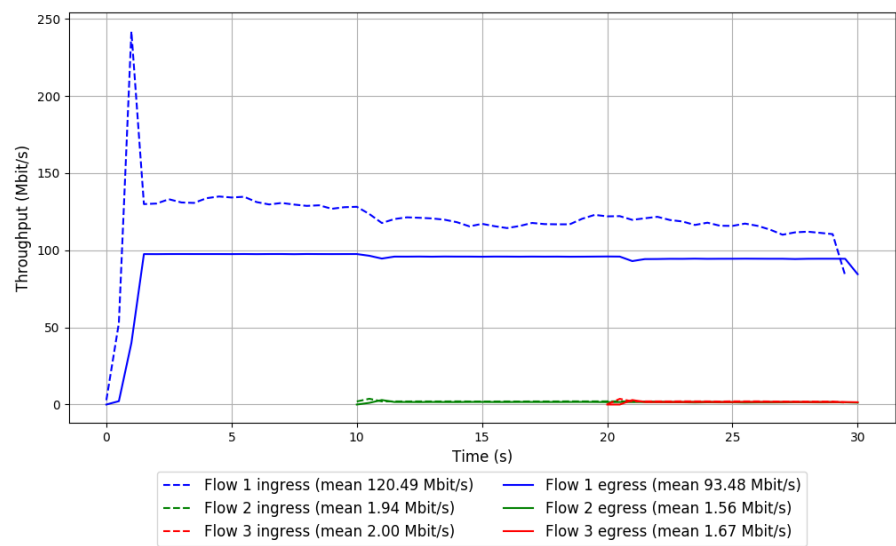


Run 1: Statistics of PCC-Allegro

Start at: 2018-07-10 03:58:18  
End at: 2018-07-10 03:58:48  
Local clock offset: 0.486 ms  
Remote clock offset: -1.239 ms

# Below is generated by plot.py at 2018-07-10 08:21:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.06 Mbit/s  
95th percentile per-packet one-way delay: 75.788 ms  
Loss rate: 22.26%  
-- Flow 1:  
Average throughput: 93.48 Mbit/s  
95th percentile per-packet one-way delay: 75.792 ms  
Loss rate: 22.32%  
-- Flow 2:  
Average throughput: 1.56 Mbit/s  
95th percentile per-packet one-way delay: 75.867 ms  
Loss rate: 19.35%  
-- Flow 3:  
Average throughput: 1.67 Mbit/s  
95th percentile per-packet one-way delay: 75.003 ms  
Loss rate: 18.23%

Run 1: Report of PCC-Allegro — Data Link



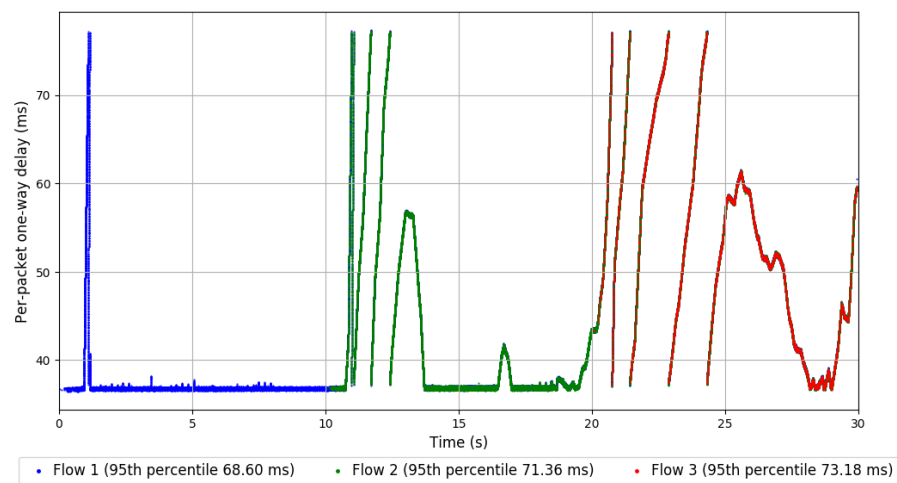
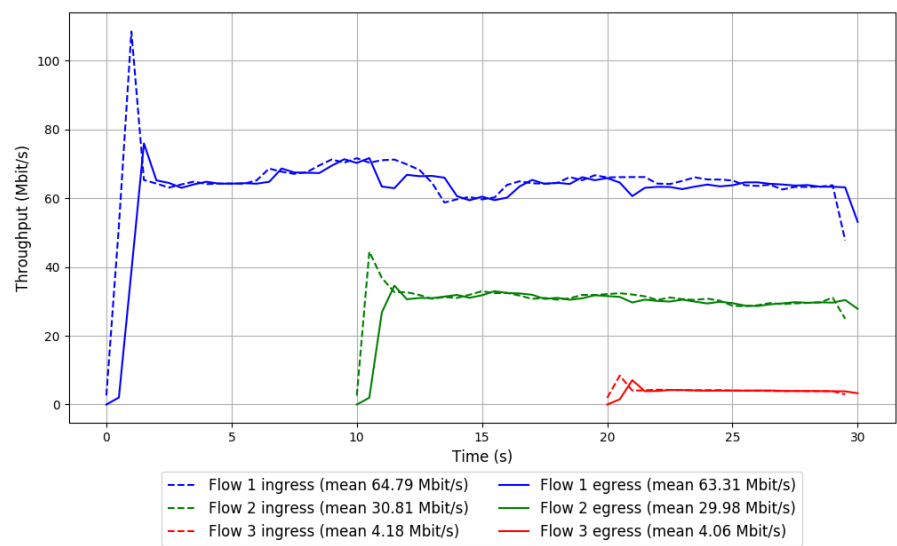
Run 2: Statistics of PCC-Allegro

Start at: 2018-07-10 04:26:53  
End at: 2018-07-10 04:27:23  
Local clock offset: 0.367 ms  
Remote clock offset: -2.874 ms

# Below is generated by plot.py at 2018-07-10 08:21:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 84.59 Mbit/s  
95th percentile per-packet one-way delay: 69.761 ms  
Loss rate: 2.30%  
-- Flow 1:  
Average throughput: 63.31 Mbit/s  
95th percentile per-packet one-way delay: 68.602 ms  
Loss rate: 2.20%  
-- Flow 2:  
Average throughput: 29.98 Mbit/s  
95th percentile per-packet one-way delay: 71.361 ms  
Loss rate: 2.60%  
-- Flow 3:  
Average throughput: 4.06 Mbit/s  
95th percentile per-packet one-way delay: 73.177 ms  
Loss rate: 2.78%



Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-07-10 04:54:43

End at: 2018-07-10 04:55:13

Local clock offset: 0.364 ms

Remote clock offset: 5.7 ms

# Below is generated by plot.py at 2018-07-10 08:21:12

# Datalink statistics

-- Total of 3 flows:

Average throughput: 89.24 Mbit/s

95th percentile per-packet one-way delay: 72.110 ms

Loss rate: 2.38%

-- Flow 1:

Average throughput: 81.26 Mbit/s

95th percentile per-packet one-way delay: 72.122 ms

Loss rate: 2.39%

-- Flow 2:

Average throughput: 7.90 Mbit/s

95th percentile per-packet one-way delay: 71.899 ms

Loss rate: 2.61%

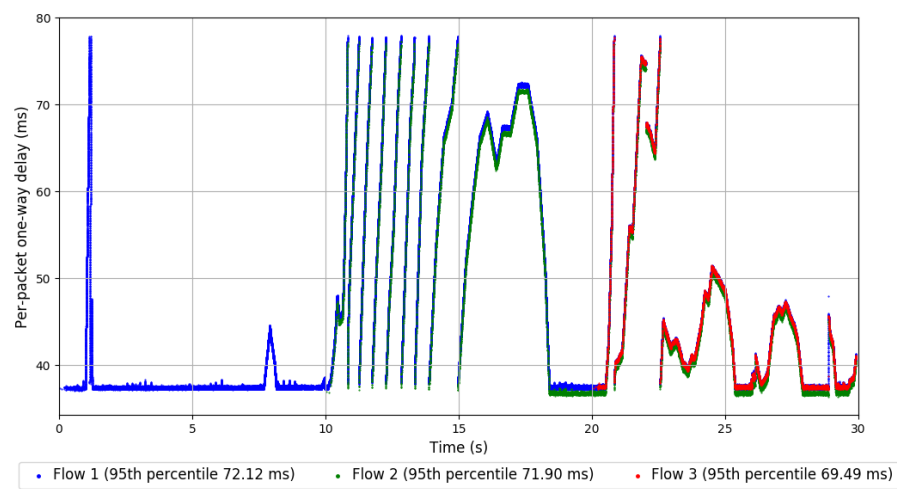
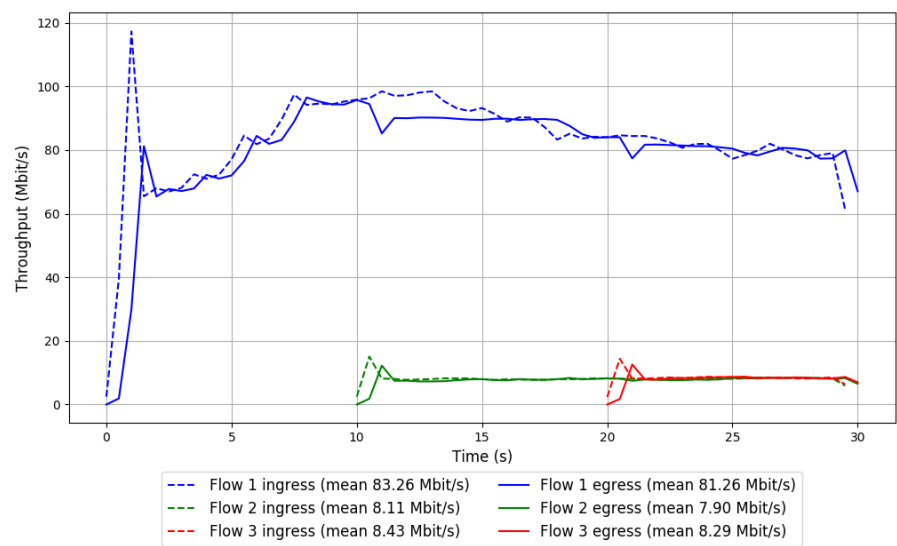
-- Flow 3:

Average throughput: 8.29 Mbit/s

95th percentile per-packet one-way delay: 69.493 ms

Loss rate: 1.53%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-07-10 05:22:53

End at: 2018-07-10 05:23:23

Local clock offset: -0.027 ms

Remote clock offset: 5.03 ms

# Below is generated by plot.py at 2018-07-10 08:21:12

# Datalink statistics

-- Total of 3 flows:

Average throughput: 37.10 Mbit/s

95th percentile per-packet one-way delay: 37.643 ms

Loss rate: 0.55%

-- Flow 1:

Average throughput: 19.68 Mbit/s

95th percentile per-packet one-way delay: 37.636 ms

Loss rate: 0.20%

-- Flow 2:

Average throughput: 9.77 Mbit/s

95th percentile per-packet one-way delay: 37.684 ms

Loss rate: 0.20%

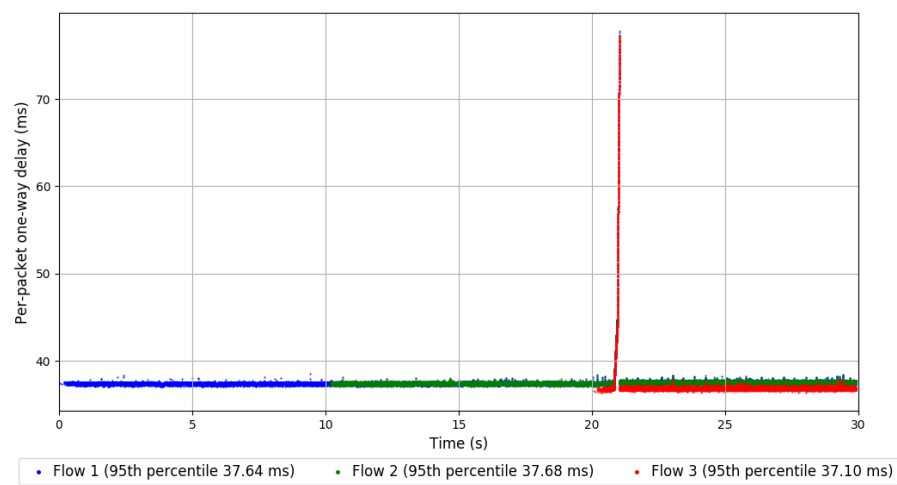
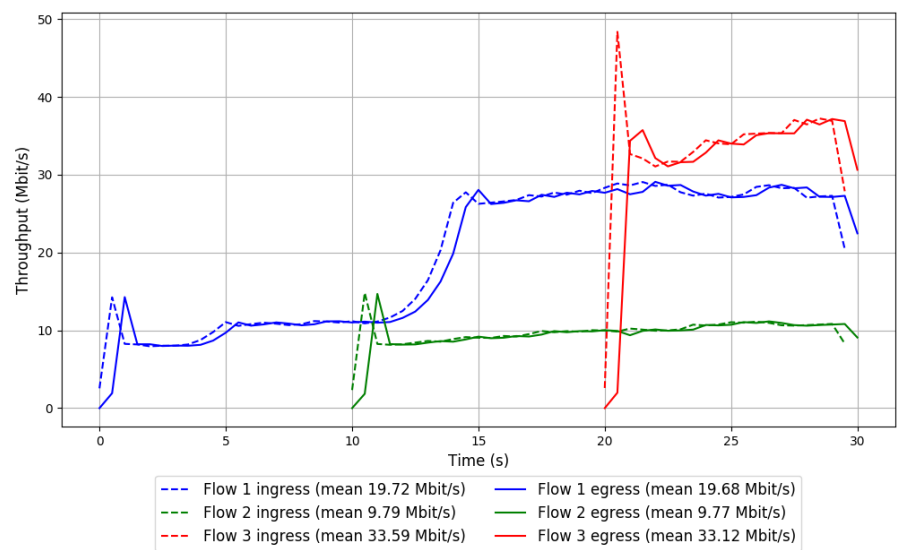
-- Flow 3:

Average throughput: 33.12 Mbit/s

95th percentile per-packet one-way delay: 37.098 ms

Loss rate: 1.38%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-07-10 05:50:09

End at: 2018-07-10 05:50:39

Local clock offset: -0.187 ms

Remote clock offset: 2.043 ms

# Below is generated by plot.py at 2018-07-10 08:21:12

# Datalink statistics

-- Total of 3 flows:

Average throughput: 62.75 Mbit/s

95th percentile per-packet one-way delay: 62.023 ms

Loss rate: 0.22%

-- Flow 1:

Average throughput: 55.54 Mbit/s

95th percentile per-packet one-way delay: 60.990 ms

Loss rate: 0.20%

-- Flow 2:

Average throughput: 3.14 Mbit/s

95th percentile per-packet one-way delay: 62.923 ms

Loss rate: 0.25%

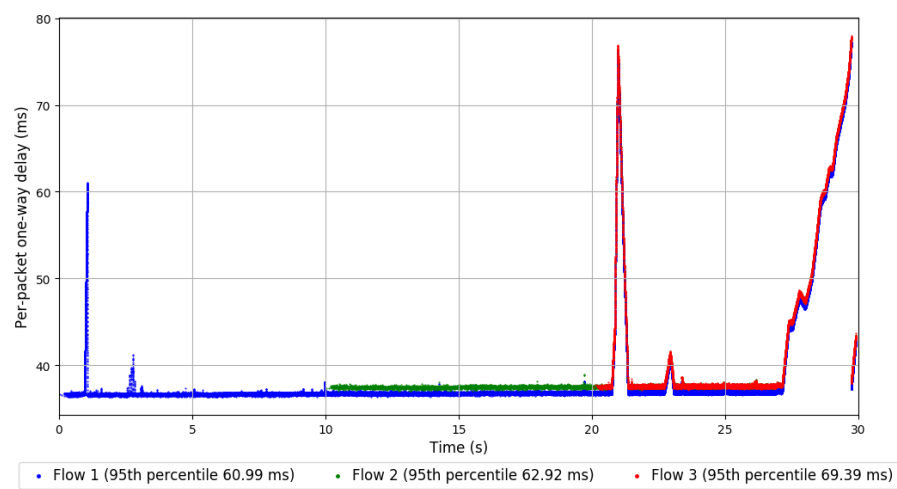
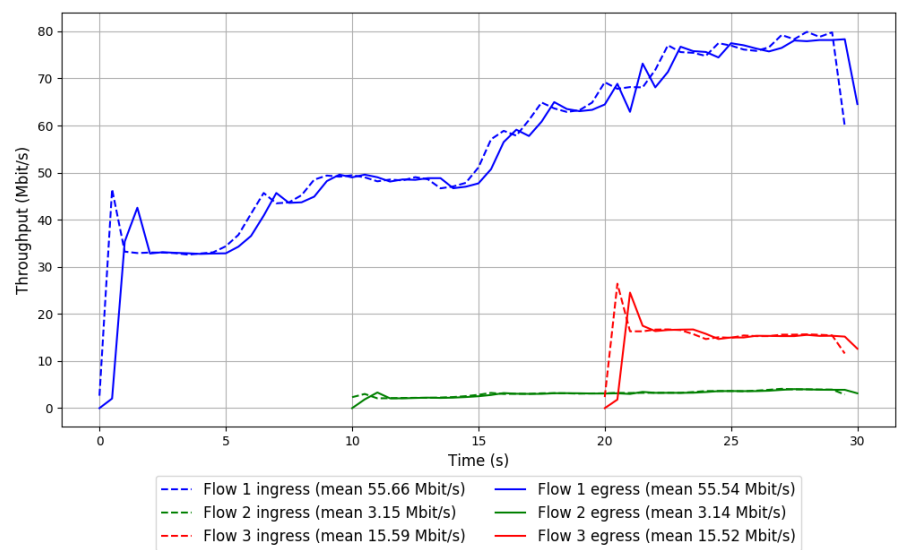
-- Flow 3:

Average throughput: 15.52 Mbit/s

95th percentile per-packet one-way delay: 69.392 ms

Loss rate: 0.42%

Run 5: Report of PCC-Allegro — Data Link



Run 6: Statistics of PCC-Allegro

Start at: 2018-07-10 06:16:39

End at: 2018-07-10 06:17:09

Local clock offset: -0.206 ms

Remote clock offset: 2.27 ms

# Below is generated by plot.py at 2018-07-10 08:21:17

# Datalink statistics

-- Total of 3 flows:

Average throughput: 86.95 Mbit/s

95th percentile per-packet one-way delay: 68.699 ms

Loss rate: 2.17%

-- Flow 1:

Average throughput: 73.09 Mbit/s

95th percentile per-packet one-way delay: 67.385 ms

Loss rate: 2.10%

-- Flow 2:

Average throughput: 17.24 Mbit/s

95th percentile per-packet one-way delay: 70.570 ms

Loss rate: 2.20%

-- Flow 3:

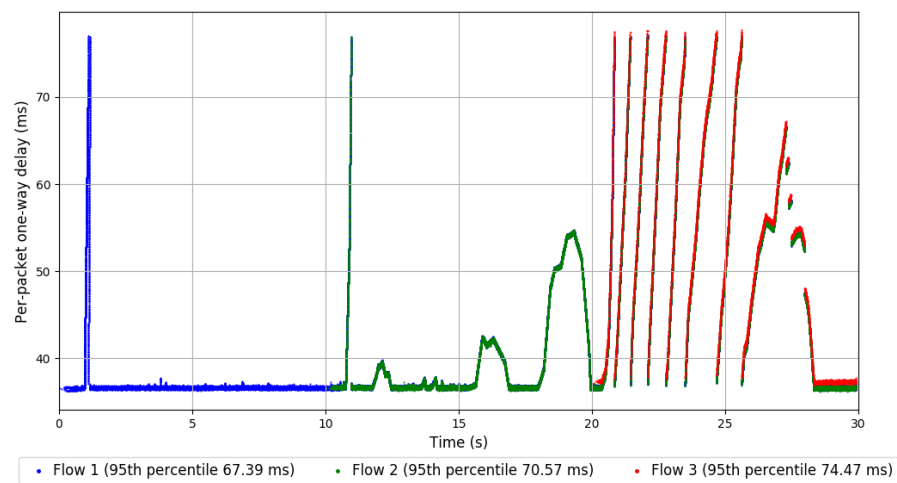
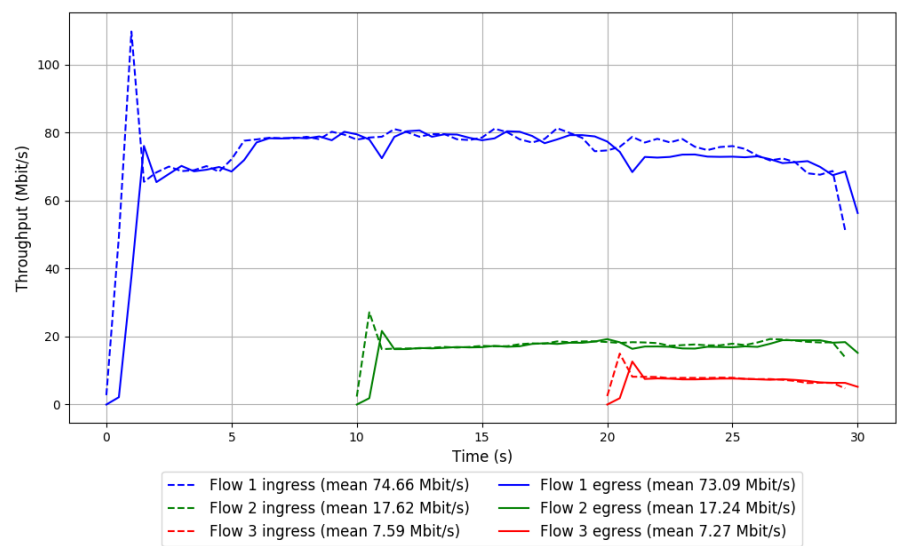
Average throughput: 7.27 Mbit/s

95th percentile per-packet one-way delay: 74.473 ms

Loss rate: 4.23%



Run 6: Report of PCC-Allegro — Data Link



Run 7: Statistics of PCC-Allegro

Start at: 2018-07-10 06:42:21

End at: 2018-07-10 06:42:51

Local clock offset: 0.044 ms

Remote clock offset: 5.232 ms

# Below is generated by plot.py at 2018-07-10 08:21:31

# Datalink statistics

-- Total of 3 flows:

Average throughput: 91.57 Mbit/s

95th percentile per-packet one-way delay: 67.891 ms

Loss rate: 1.73%

-- Flow 1:

Average throughput: 83.23 Mbit/s

95th percentile per-packet one-way delay: 67.467 ms

Loss rate: 1.71%

-- Flow 2:

Average throughput: 8.26 Mbit/s

95th percentile per-packet one-way delay: 69.608 ms

Loss rate: 1.83%

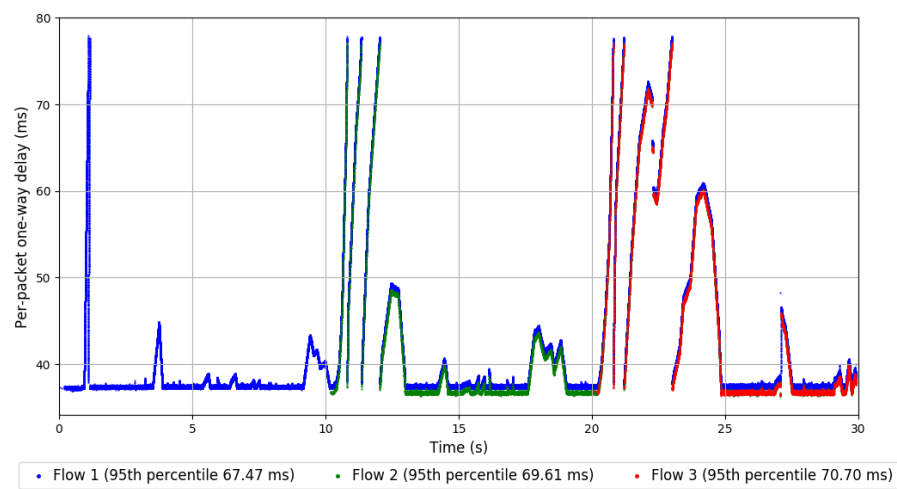
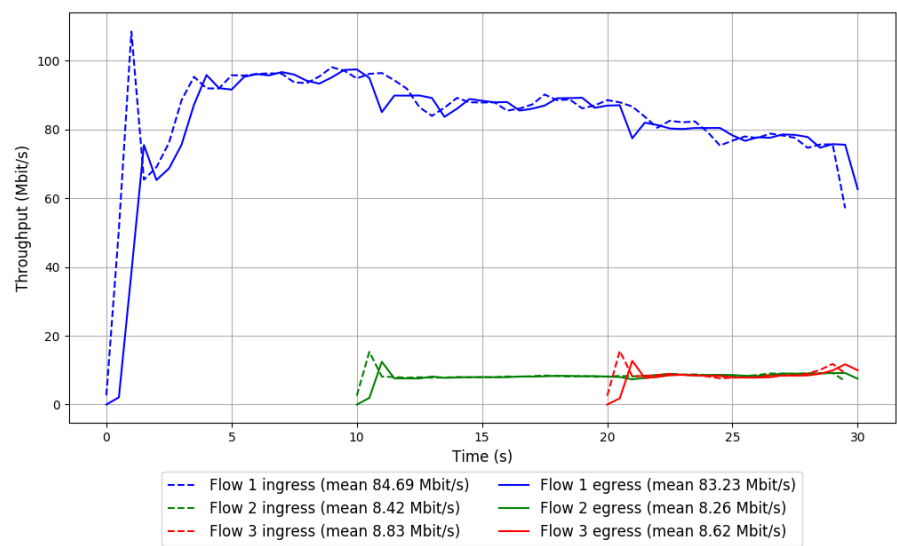
-- Flow 3:

Average throughput: 8.62 Mbit/s

95th percentile per-packet one-way delay: 70.696 ms

Loss rate: 2.34%

Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

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

End at: 2018-07-10 07:07:31

Local clock offset: 0.188 ms

Remote clock offset: 3.82 ms

# Below is generated by plot.py at 2018-07-10 08:21:31

# Datalink statistics

-- Total of 3 flows:

Average throughput: 60.79 Mbit/s

95th percentile per-packet one-way delay: 72.980 ms

Loss rate: 4.50%

-- Flow 1:

Average throughput: 7.56 Mbit/s

95th percentile per-packet one-way delay: 71.379 ms

Loss rate: 2.83%

-- Flow 2:

Average throughput: 72.70 Mbit/s

95th percentile per-packet one-way delay: 72.780 ms

Loss rate: 4.40%

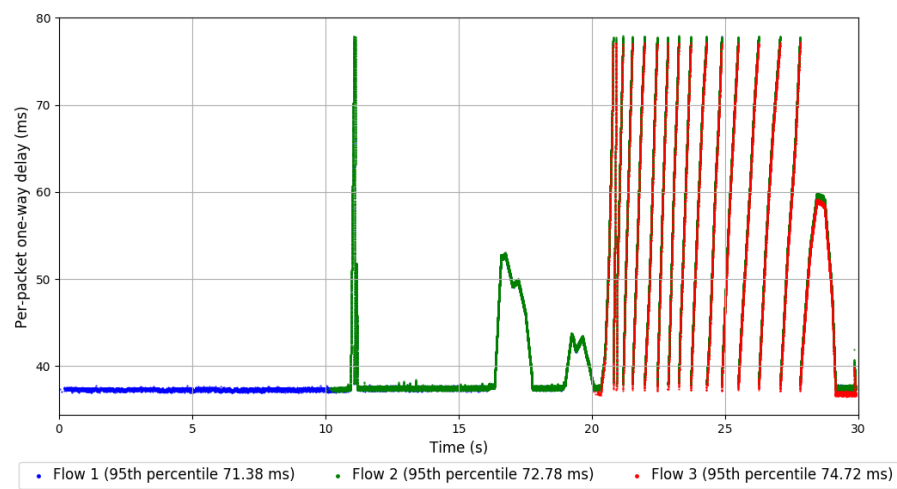
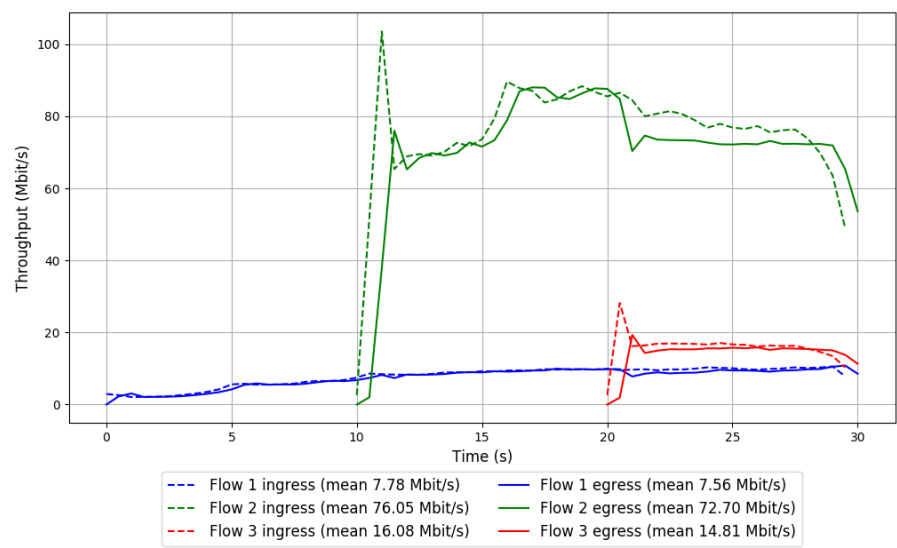
-- Flow 3:

Average throughput: 14.81 Mbit/s

95th percentile per-packet one-way delay: 74.723 ms

Loss rate: 7.87%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-07-10 07:32:15

End at: 2018-07-10 07:32:45

Local clock offset: 0.103 ms

Remote clock offset: 4.017 ms

# Below is generated by plot.py at 2018-07-10 08:21:48

# Datalink statistics

-- Total of 3 flows:

Average throughput: 89.18 Mbit/s

95th percentile per-packet one-way delay: 64.738 ms

Loss rate: 1.08%

-- Flow 1:

Average throughput: 81.48 Mbit/s

95th percentile per-packet one-way delay: 64.717 ms

Loss rate: 1.15%

-- Flow 2:

Average throughput: 9.44 Mbit/s

95th percentile per-packet one-way delay: 66.257 ms

Loss rate: 0.51%

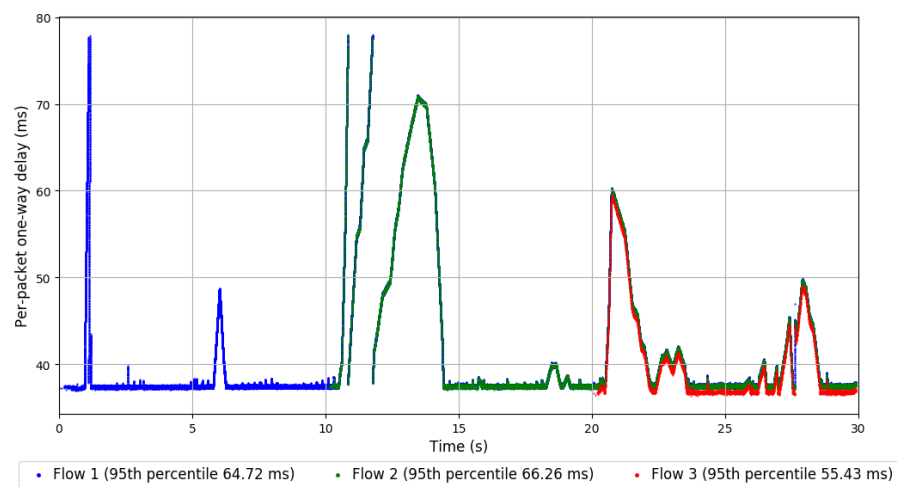
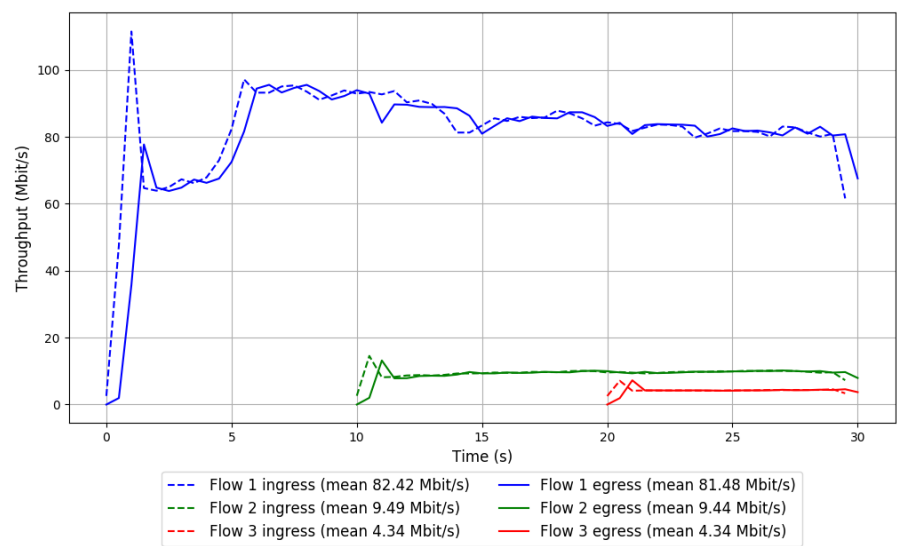
-- Flow 3:

Average throughput: 4.34 Mbit/s

95th percentile per-packet one-way delay: 55.433 ms

Loss rate: 0.00%

Run 9: Report of PCC-Allegro — Data Link



Run 10: Statistics of PCC-Allegro

Start at: 2018-07-10 07:58:20

End at: 2018-07-10 07:58:50

Local clock offset: 0.182 ms

Remote clock offset: 2.954 ms

# Below is generated by plot.py at 2018-07-10 08:22:05

# Datalink statistics

-- Total of 3 flows:

Average throughput: 89.75 Mbit/s

95th percentile per-packet one-way delay: 61.640 ms

Loss rate: 1.55%

-- Flow 1:

Average throughput: 81.74 Mbit/s

95th percentile per-packet one-way delay: 61.489 ms

Loss rate: 1.59%

-- Flow 2:

Average throughput: 9.73 Mbit/s

95th percentile per-packet one-way delay: 63.544 ms

Loss rate: 1.24%

-- Flow 3:

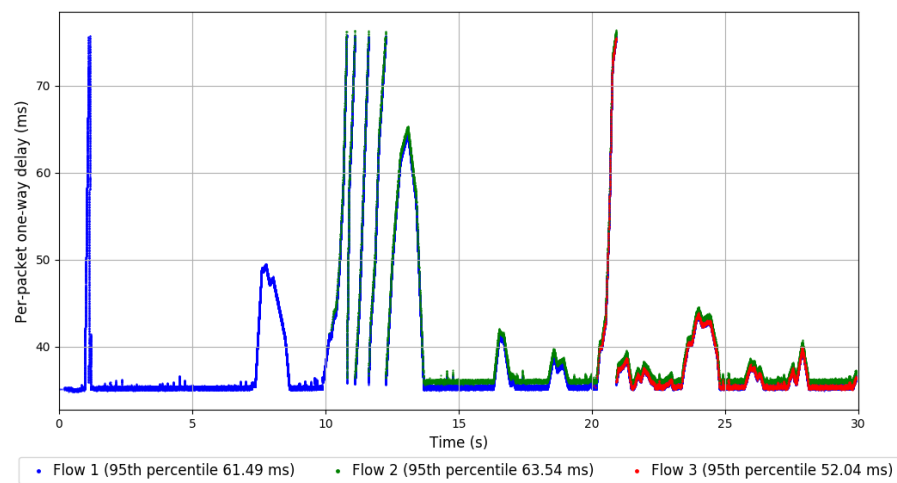
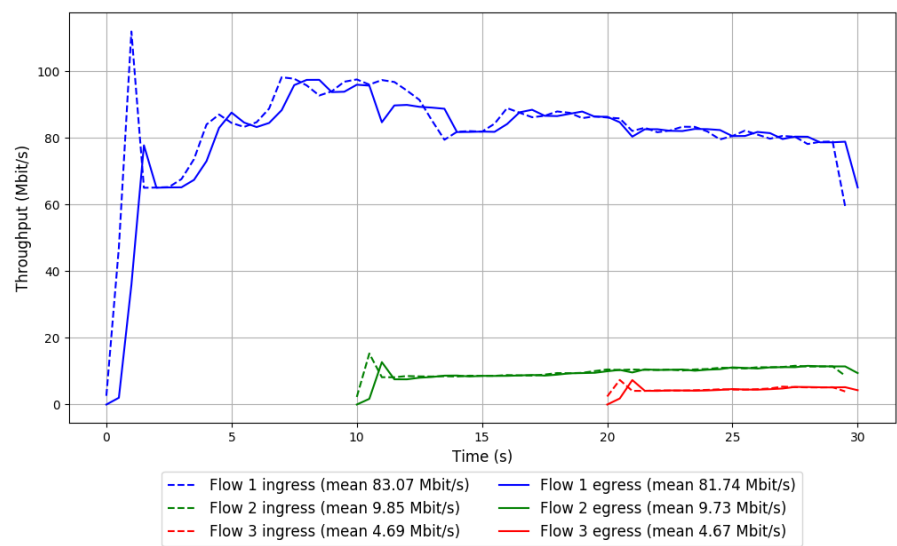
Average throughput: 4.67 Mbit/s

95th percentile per-packet one-way delay: 52.039 ms

Loss rate: 0.36%



Run 10: Report of PCC-Allegro — Data Link

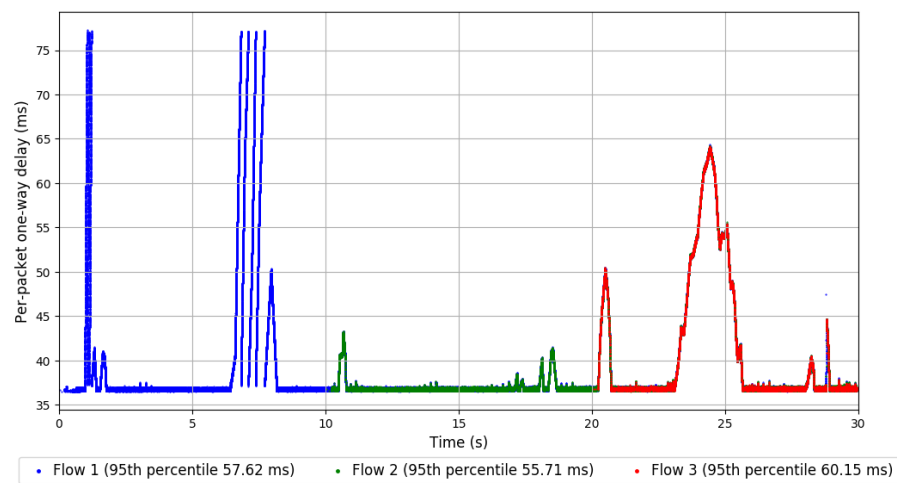
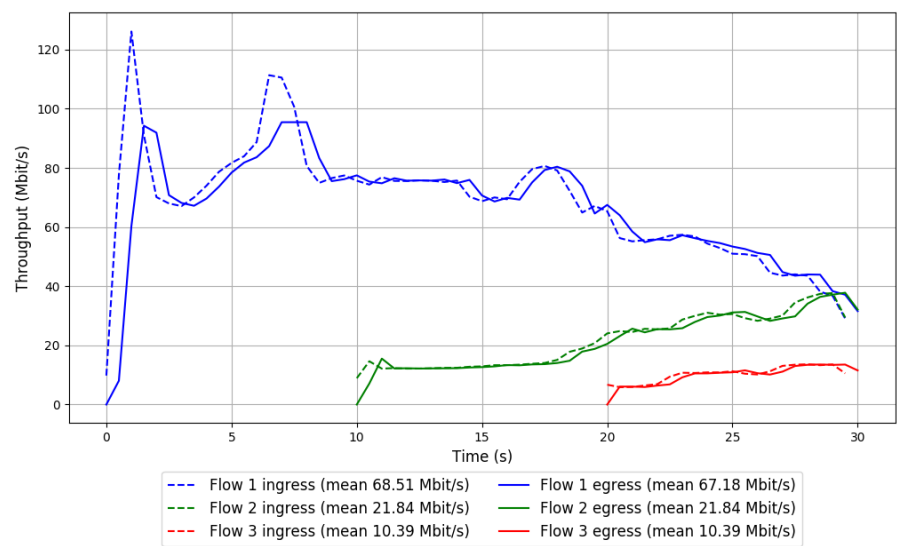


```
Run 1: Statistics of PCC-Expr

Start at: 2018-07-10 03:37:28
End at: 2018-07-10 03:37:58
Local clock offset: 0.604 ms
Remote clock offset: 0.083 ms

# Below is generated by plot.py at 2018-07-10 08:23:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.14 Mbit/s
95th percentile per-packet one-way delay: 57.477 ms
Loss rate: 1.53%
-- Flow 1:
Average throughput: 67.18 Mbit/s
95th percentile per-packet one-way delay: 57.615 ms
Loss rate: 1.94%
-- Flow 2:
Average throughput: 21.84 Mbit/s
95th percentile per-packet one-way delay: 55.710 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 10.39 Mbit/s
95th percentile per-packet one-way delay: 60.154 ms
Loss rate: 0.00%
```

Run 1: Report of PCC-Expr — Data Link

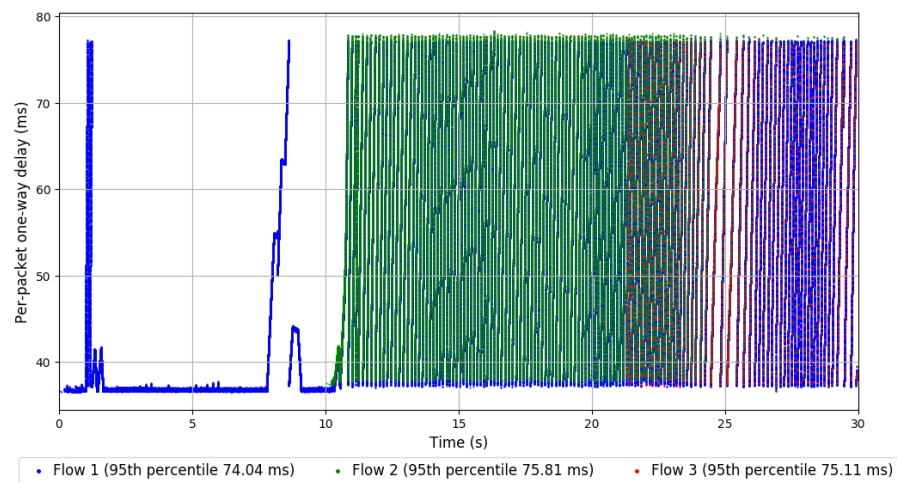
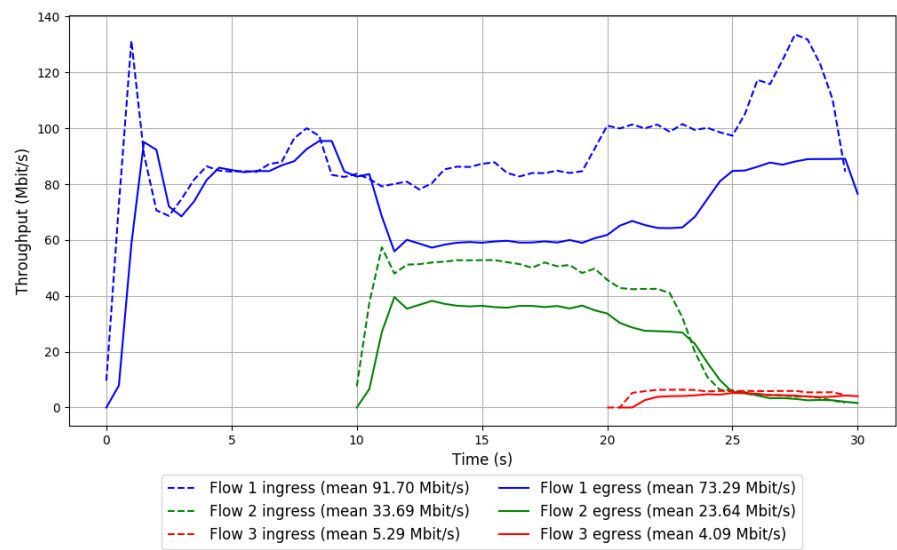


Run 2: Statistics of PCC-Expr

Start at: 2018-07-10 04:06:43  
End at: 2018-07-10 04:07:13  
Local clock offset: 0.461 ms  
Remote clock offset: -1.513 ms

# Below is generated by plot.py at 2018-07-10 08:23:21  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 90.29 Mbit/s  
95th percentile per-packet one-way delay: 74.487 ms  
Loss rate: 22.05%  
-- Flow 1:  
Average throughput: 73.29 Mbit/s  
95th percentile per-packet one-way delay: 74.042 ms  
Loss rate: 20.07%  
-- Flow 2:  
Average throughput: 23.64 Mbit/s  
95th percentile per-packet one-way delay: 75.805 ms  
Loss rate: 29.81%  
-- Flow 3:  
Average throughput: 4.09 Mbit/s  
95th percentile per-packet one-way delay: 75.111 ms  
Loss rate: 26.72%

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2018-07-10 04:35:24

End at: 2018-07-10 04:35:54

Local clock offset: 0.408 ms

Remote clock offset: 1.297 ms

# Below is generated by plot.py at 2018-07-10 08:23:21

# Datalink statistics

-- Total of 3 flows:

Average throughput: 36.98 Mbit/s

95th percentile per-packet one-way delay: 53.292 ms

Loss rate: 0.37%

-- Flow 1:

Average throughput: 18.90 Mbit/s

95th percentile per-packet one-way delay: 51.878 ms

Loss rate: 0.32%

-- Flow 2:

Average throughput: 19.30 Mbit/s

95th percentile per-packet one-way delay: 52.335 ms

Loss rate: 0.35%

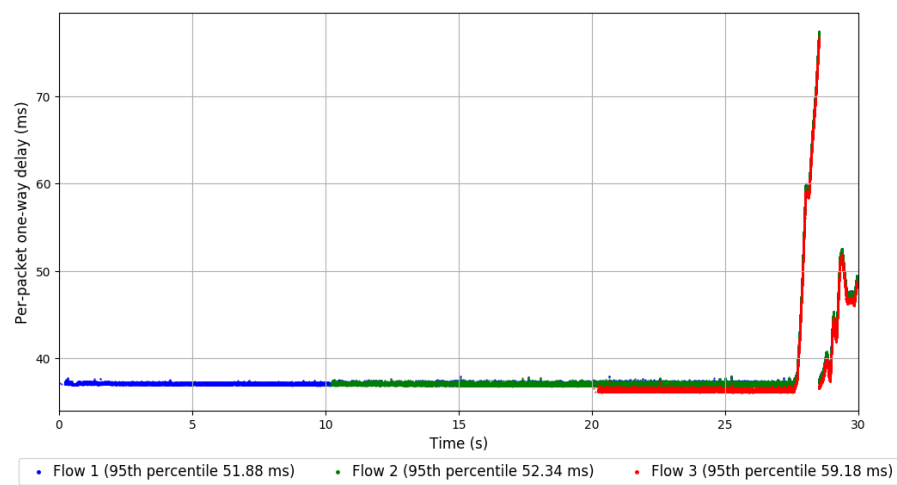
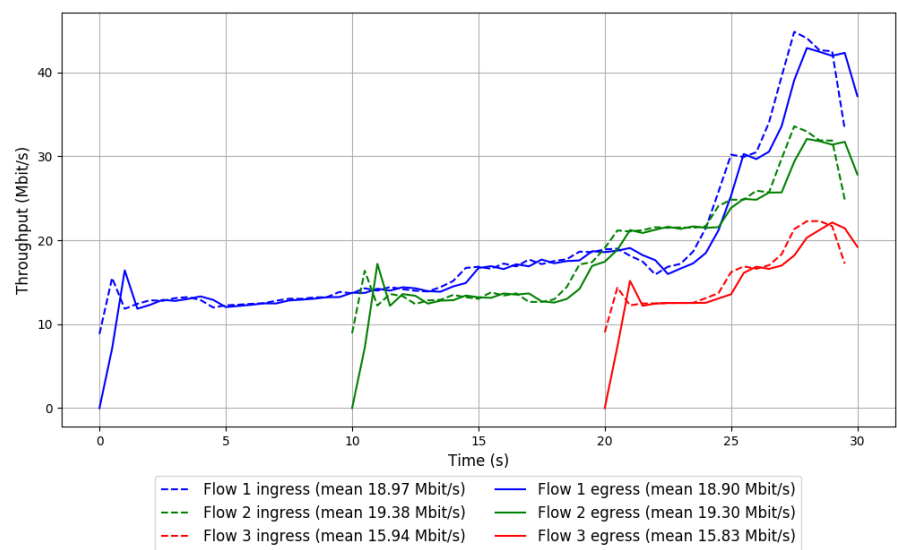
-- Flow 3:

Average throughput: 15.83 Mbit/s

95th percentile per-packet one-way delay: 59.178 ms

Loss rate: 0.60%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2018-07-10 05:03:09

End at: 2018-07-10 05:03:39

Local clock offset: 0.299 ms

Remote clock offset: 6.344 ms

# Below is generated by plot.py at 2018-07-10 08:23:21

# Datalink statistics

-- Total of 3 flows:

Average throughput: 73.13 Mbit/s

95th percentile per-packet one-way delay: 72.307 ms

Loss rate: 2.99%

-- Flow 1:

Average throughput: 30.54 Mbit/s

95th percentile per-packet one-way delay: 71.522 ms

Loss rate: 3.61%

-- Flow 2:

Average throughput: 57.23 Mbit/s

95th percentile per-packet one-way delay: 72.743 ms

Loss rate: 2.83%

-- Flow 3:

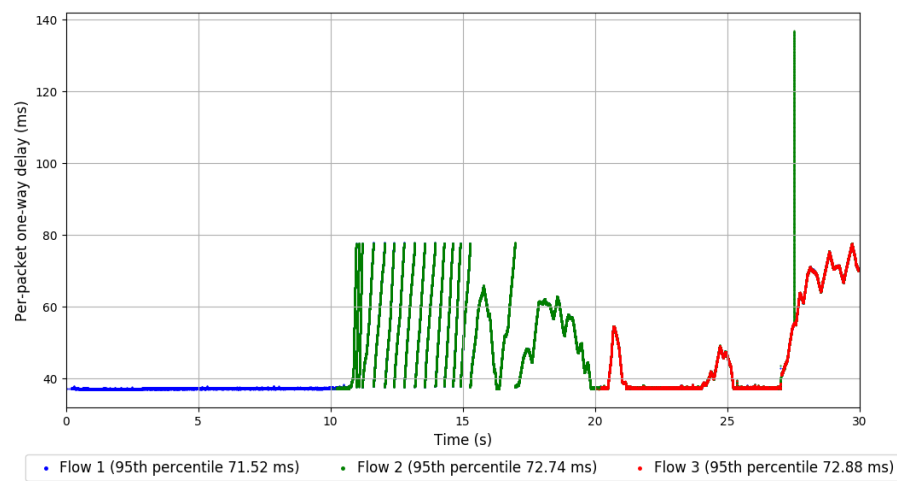
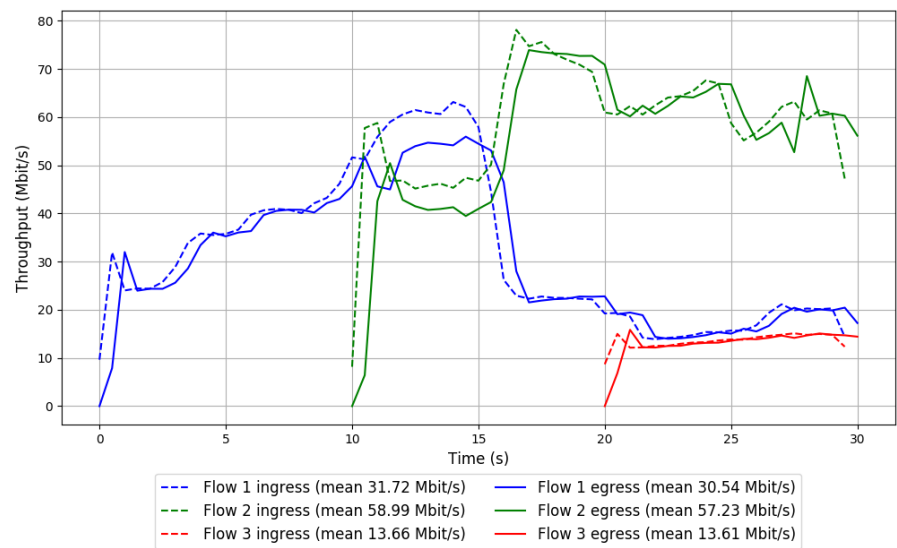
Average throughput: 13.61 Mbit/s

95th percentile per-packet one-way delay: 72.880 ms

Loss rate: 0.01%



Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2018-07-10 05:30:47

End at: 2018-07-10 05:31:17

Local clock offset: -0.121 ms

Remote clock offset: 5.122 ms

# Below is generated by plot.py at 2018-07-10 08:23:21

# Datalink statistics

-- Total of 3 flows:

Average throughput: 87.01 Mbit/s

95th percentile per-packet one-way delay: 69.367 ms

Loss rate: 1.16%

-- Flow 1:

Average throughput: 67.93 Mbit/s

95th percentile per-packet one-way delay: 68.777 ms

Loss rate: 1.31%

-- Flow 2:

Average throughput: 23.39 Mbit/s

95th percentile per-packet one-way delay: 70.652 ms

Loss rate: 0.59%

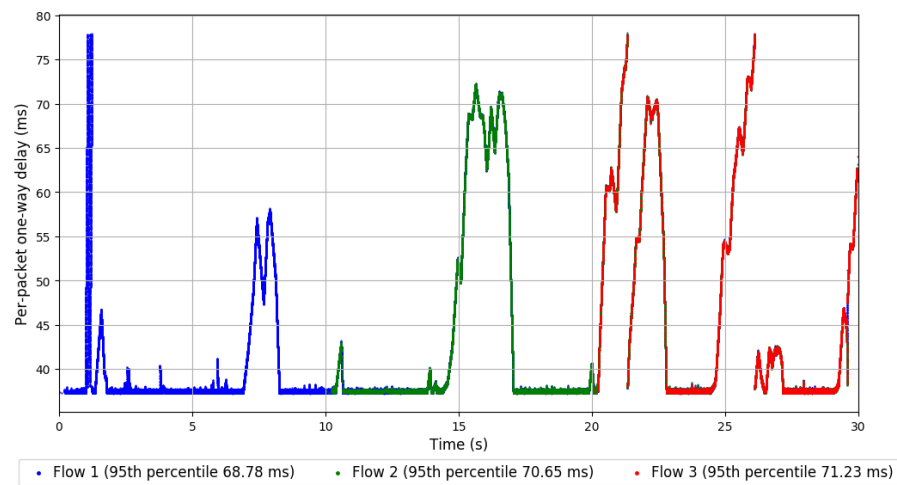
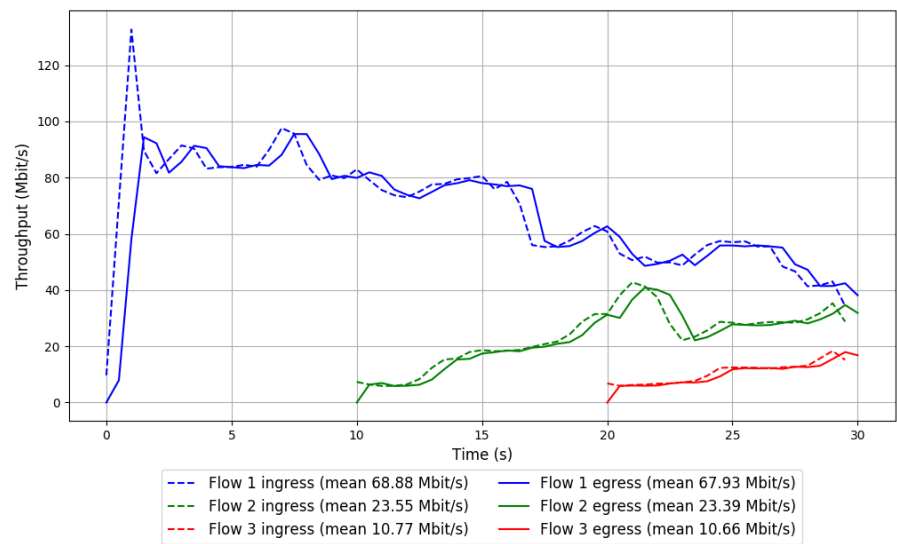
-- Flow 3:

Average throughput: 10.66 Mbit/s

95th percentile per-packet one-way delay: 71.227 ms

Loss rate: 0.73%

Run 5: Report of PCC-Expr — Data Link



Run 6: Statistics of PCC-Expr

Start at: 2018-07-10 05:57:48

End at: 2018-07-10 05:58:18

Local clock offset: -0.239 ms

Remote clock offset: 1.24 ms

# Below is generated by plot.py at 2018-07-10 08:23:23

# Datalink statistics

-- Total of 3 flows:

Average throughput: 79.43 Mbit/s

95th percentile per-packet one-way delay: 67.718 ms

Loss rate: 1.05%

-- Flow 1:

Average throughput: 59.35 Mbit/s

95th percentile per-packet one-way delay: 67.301 ms

Loss rate: 1.02%

-- Flow 2:

Average throughput: 23.72 Mbit/s

95th percentile per-packet one-way delay: 67.986 ms

Loss rate: 1.07%

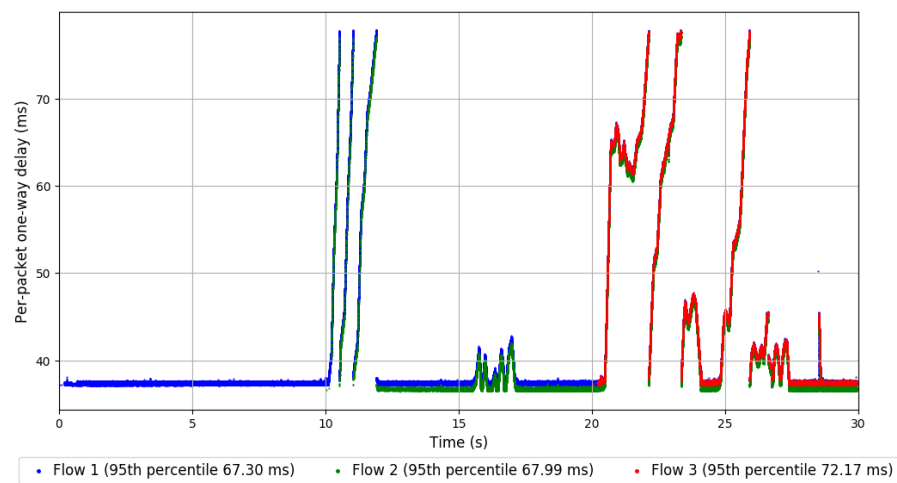
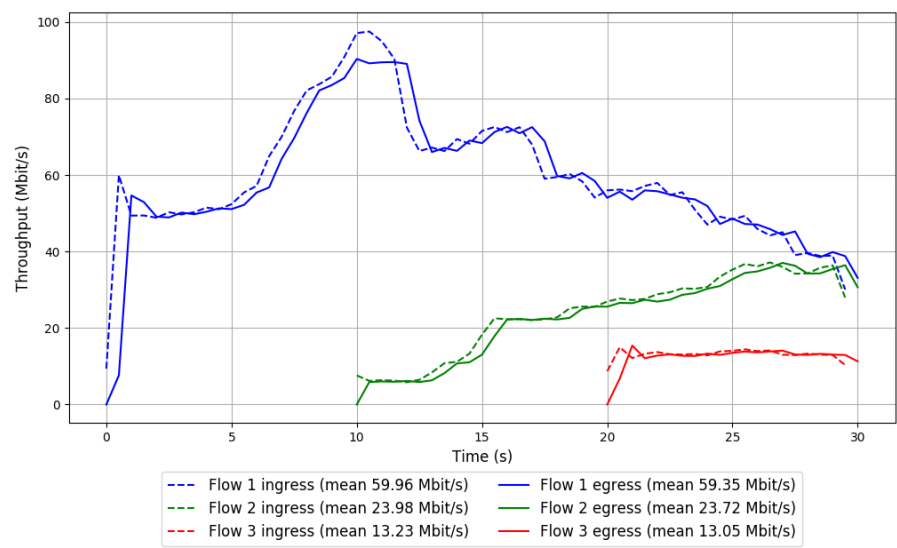
-- Flow 3:

Average throughput: 13.05 Mbit/s

95th percentile per-packet one-way delay: 72.171 ms

Loss rate: 1.37%

Run 6: Report of PCC-Expr — Data Link



Run 7: Statistics of PCC-Expr

Start at: 2018-07-10 06:24:09

End at: 2018-07-10 06:24:39

Local clock offset: -0.153 ms

Remote clock offset: 3.665 ms

# Below is generated by plot.py at 2018-07-10 08:23:50

# Datalink statistics

-- Total of 3 flows:

Average throughput: 82.89 Mbit/s

95th percentile per-packet one-way delay: 68.455 ms

Loss rate: 0.32%

-- Flow 1:

Average throughput: 67.33 Mbit/s

95th percentile per-packet one-way delay: 68.079 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 16.32 Mbit/s

95th percentile per-packet one-way delay: 70.256 ms

Loss rate: 0.50%

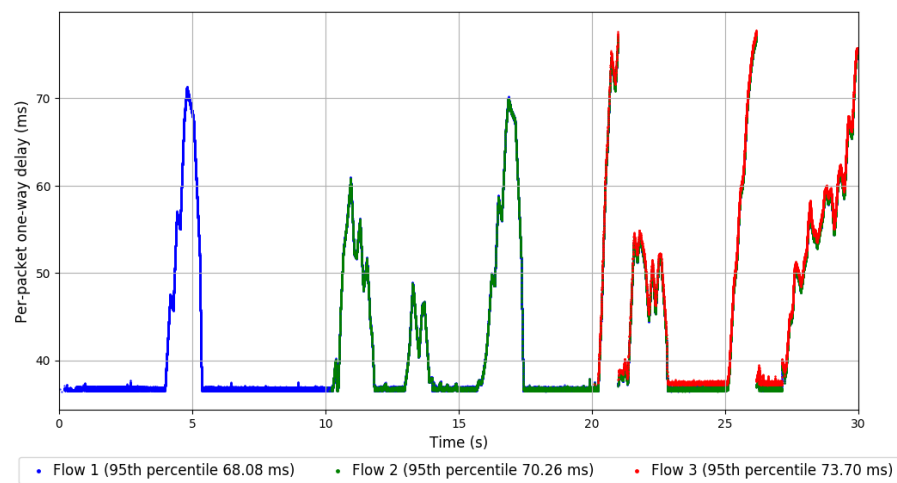
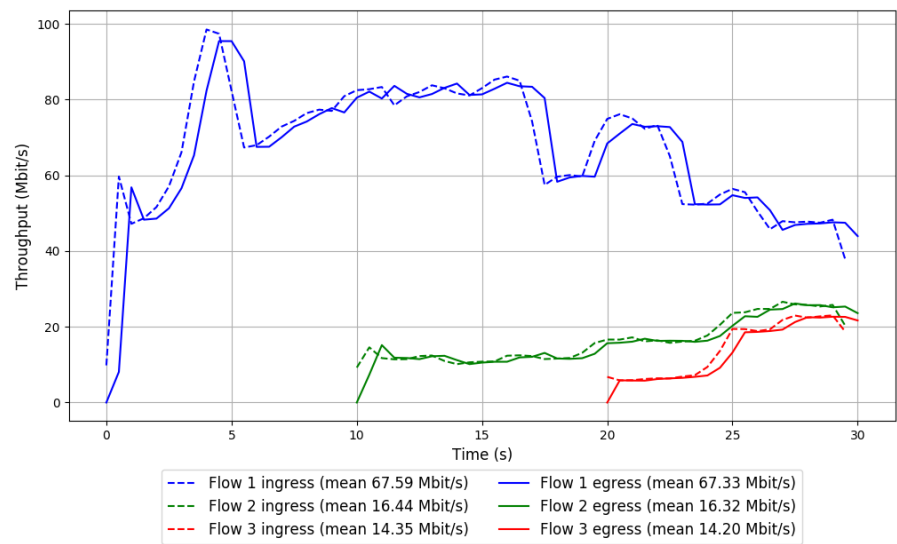
-- Flow 3:

Average throughput: 14.20 Mbit/s

95th percentile per-packet one-way delay: 73.696 ms

Loss rate: 0.69%

Run 7: Report of PCC-Expr — Data Link



Run 8: Statistics of PCC-Expr

Start at: 2018-07-10 06:49:36

End at: 2018-07-10 06:50:06

Local clock offset: 0.003 ms

Remote clock offset: 4.724 ms

# Below is generated by plot.py at 2018-07-10 08:24:14

# Datalink statistics

-- Total of 3 flows:

Average throughput: 89.43 Mbit/s

95th percentile per-packet one-way delay: 74.493 ms

Loss rate: 3.25%

-- Flow 1:

Average throughput: 72.49 Mbit/s

95th percentile per-packet one-way delay: 74.284 ms

Loss rate: 3.59%

-- Flow 2:

Average throughput: 20.13 Mbit/s

95th percentile per-packet one-way delay: 74.495 ms

Loss rate: 1.94%

-- Flow 3:

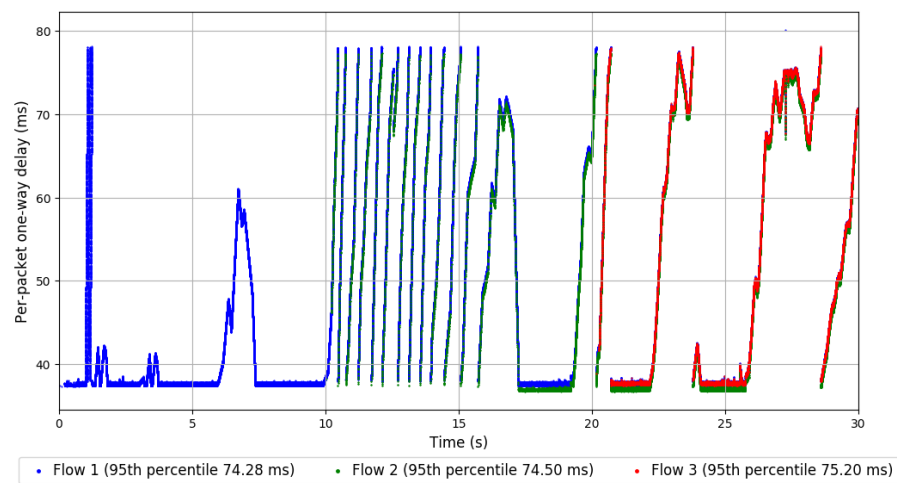
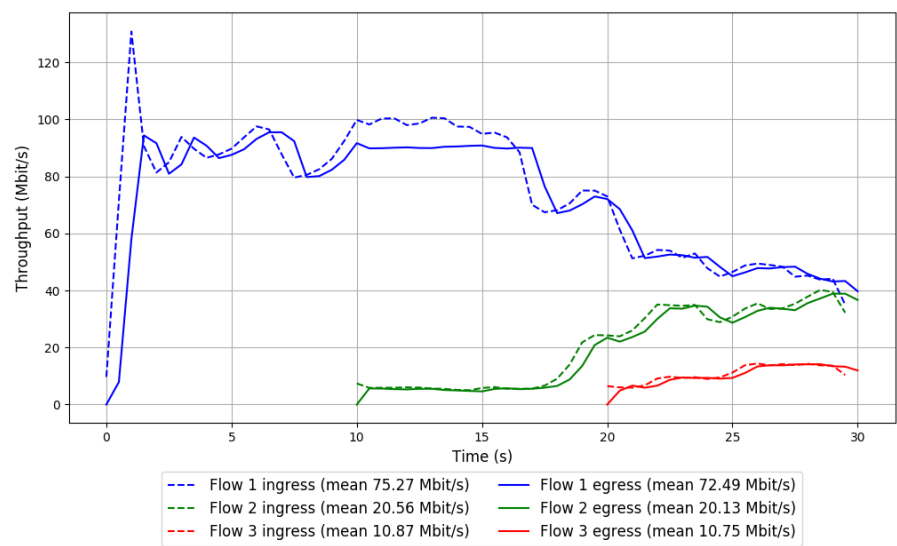
Average throughput: 10.75 Mbit/s

95th percentile per-packet one-way delay: 75.198 ms

Loss rate: 1.09%



Run 8: Report of PCC-Expr — Data Link



Run 9: Statistics of PCC-Expr

Start at: 2018-07-10 07:14:14

End at: 2018-07-10 07:14:44

Local clock offset: 0.218 ms

Remote clock offset: 3.821 ms

# Below is generated by plot.py at 2018-07-10 08:24:14

# Datalink statistics

-- Total of 3 flows:

Average throughput: 82.58 Mbit/s

95th percentile per-packet one-way delay: 70.418 ms

Loss rate: 0.79%

-- Flow 1:

Average throughput: 64.24 Mbit/s

95th percentile per-packet one-way delay: 70.333 ms

Loss rate: 0.72%

-- Flow 2:

Average throughput: 21.72 Mbit/s

95th percentile per-packet one-way delay: 71.390 ms

Loss rate: 1.09%

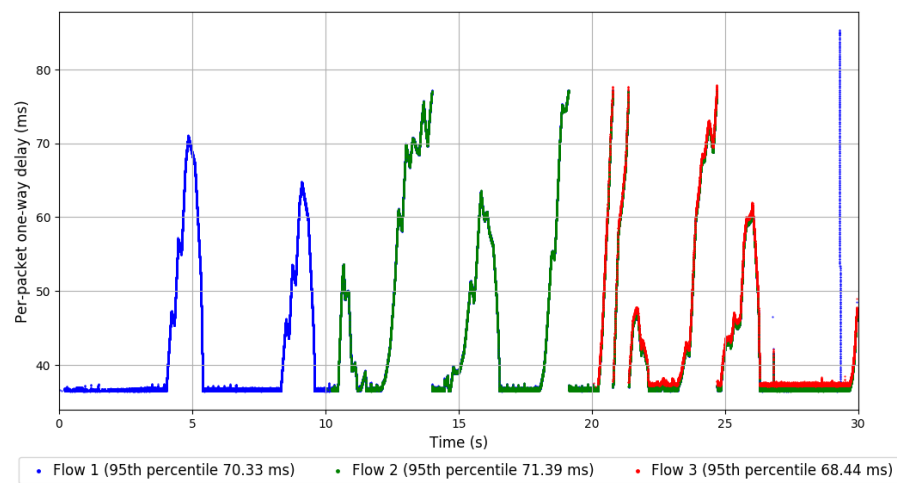
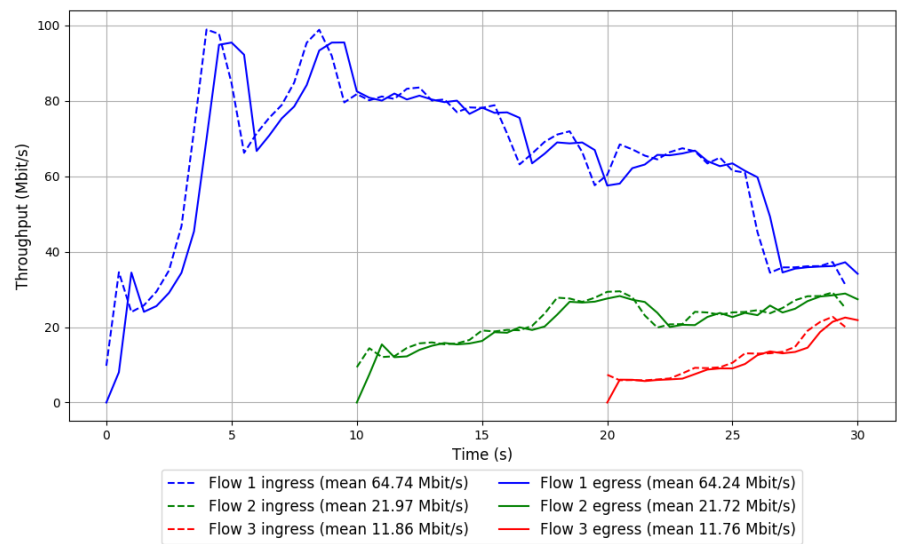
-- Flow 3:

Average throughput: 11.76 Mbit/s

95th percentile per-packet one-way delay: 68.444 ms

Loss rate: 0.69%

Run 9: Report of PCC-Expr — Data Link



Run 10: Statistics of PCC-Expr

Start at: 2018-07-10 07:39:44

End at: 2018-07-10 07:40:14

Local clock offset: 0.192 ms

Remote clock offset: 4.222 ms

# Below is generated by plot.py at 2018-07-10 08:25:17

# Datalink statistics

-- Total of 3 flows:

Average throughput: 86.00 Mbit/s

95th percentile per-packet one-way delay: 65.608 ms

Loss rate: 1.82%

-- Flow 1:

Average throughput: 64.06 Mbit/s

95th percentile per-packet one-way delay: 65.232 ms

Loss rate: 1.95%

-- Flow 2:

Average throughput: 29.08 Mbit/s

95th percentile per-packet one-way delay: 66.687 ms

Loss rate: 1.37%

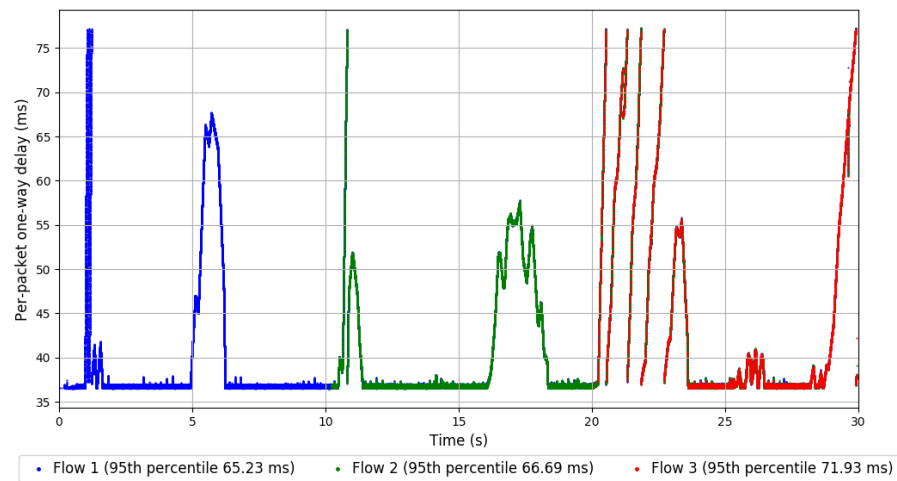
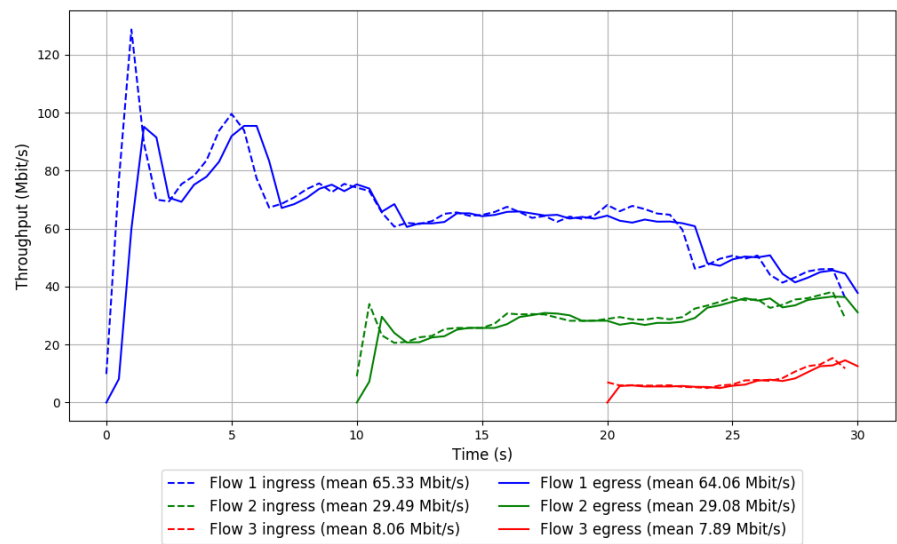
-- Flow 3:

Average throughput: 7.89 Mbit/s

95th percentile per-packet one-way delay: 71.929 ms

Loss rate: 2.06%

Run 10: Report of PCC-Expr — Data Link

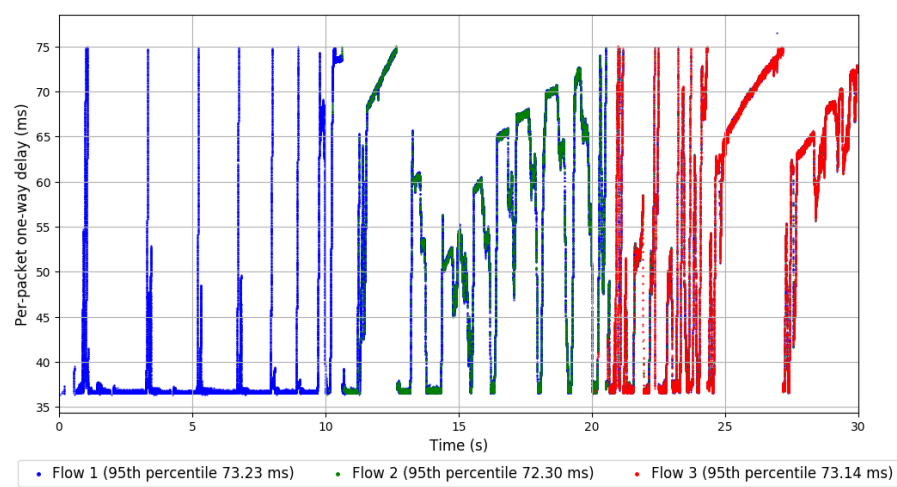
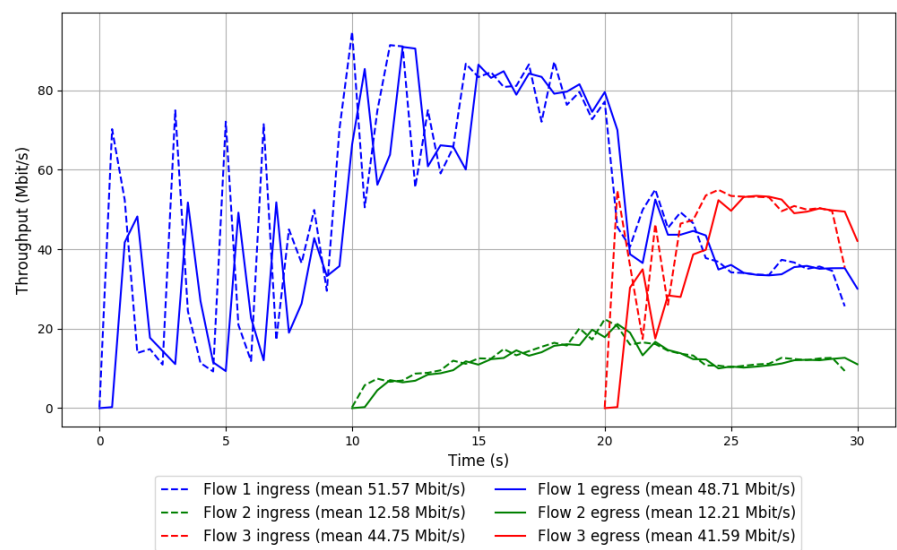


Run 1: Statistics of QUIC Cubic

Start at: 2018-07-10 03:41:16  
End at: 2018-07-10 03:41:46  
Local clock offset: 0.596 ms  
Remote clock offset: -0.216 ms

# Below is generated by plot.py at 2018-07-10 08:25:17  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 70.58 Mbit/s  
95th percentile per-packet one-way delay: 73.097 ms  
Loss rate: 5.39%  
-- Flow 1:  
Average throughput: 48.71 Mbit/s  
95th percentile per-packet one-way delay: 73.226 ms  
Loss rate: 5.44%  
-- Flow 2:  
Average throughput: 12.21 Mbit/s  
95th percentile per-packet one-way delay: 72.298 ms  
Loss rate: 2.72%  
-- Flow 3:  
Average throughput: 41.59 Mbit/s  
95th percentile per-packet one-way delay: 73.142 ms  
Loss rate: 6.71%

Run 1: Report of QUIC Cubic — Data Link



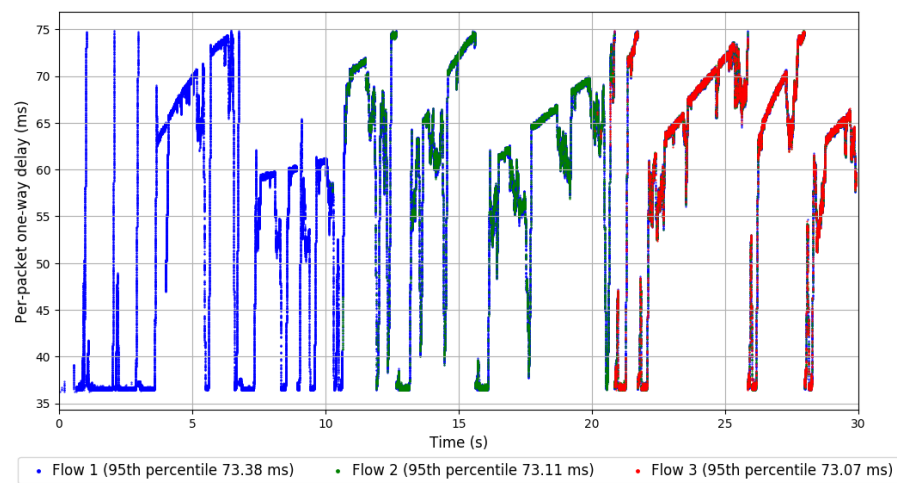
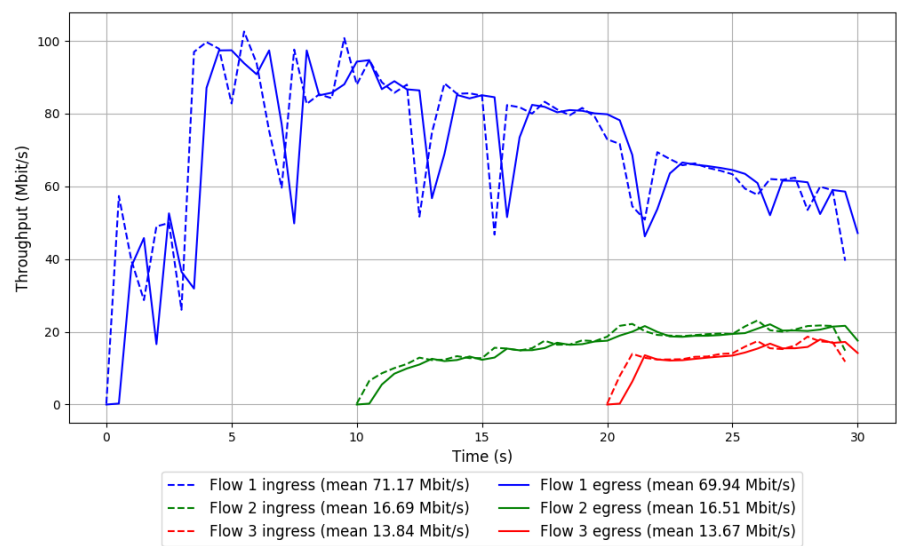
Run 2: Statistics of QUIC Cubic

Start at: 2018-07-10 04:10:27  
End at: 2018-07-10 04:10:57  
Local clock offset: 0.515 ms  
Remote clock offset: -1.698 ms

# Below is generated by plot.py at 2018-07-10 08:25:17  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 85.39 Mbit/s  
95th percentile per-packet one-way delay: 73.351 ms  
Loss rate: 1.56%  
-- Flow 1:  
Average throughput: 69.94 Mbit/s  
95th percentile per-packet one-way delay: 73.383 ms  
Loss rate: 1.65%  
-- Flow 2:  
Average throughput: 16.51 Mbit/s  
95th percentile per-packet one-way delay: 73.115 ms  
Loss rate: 1.08%  
-- Flow 3:  
Average throughput: 13.67 Mbit/s  
95th percentile per-packet one-way delay: 73.072 ms  
Loss rate: 1.25%



Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-07-10 04:38:57

End at: 2018-07-10 04:39:27

Local clock offset: 0.419 ms

Remote clock offset: 2.632 ms

# Below is generated by plot.py at 2018-07-10 08:25:17

# Datalink statistics

-- Total of 3 flows:

Average throughput: 87.24 Mbit/s

95th percentile per-packet one-way delay: 73.932 ms

Loss rate: 2.21%

-- Flow 1:

Average throughput: 57.18 Mbit/s

95th percentile per-packet one-way delay: 74.236 ms

Loss rate: 2.28%

-- Flow 2:

Average throughput: 40.63 Mbit/s

95th percentile per-packet one-way delay: 72.259 ms

Loss rate: 2.19%

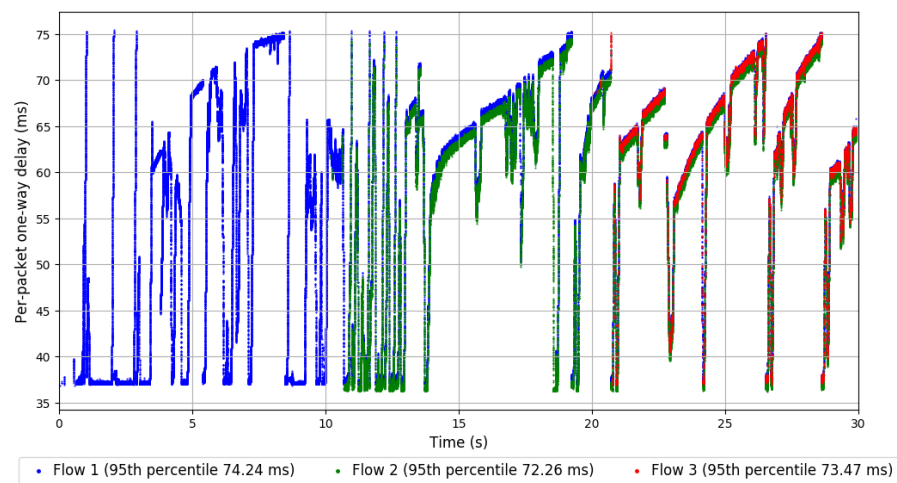
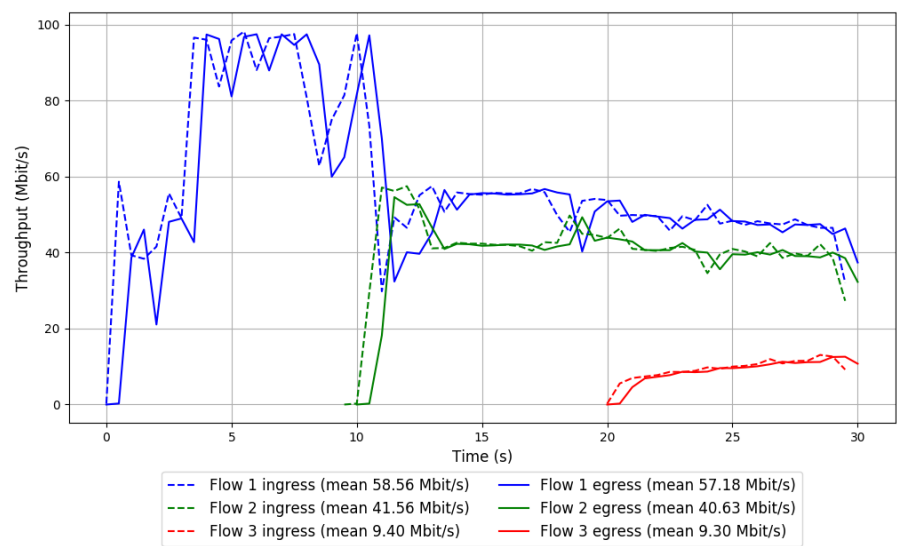
-- Flow 3:

Average throughput: 9.30 Mbit/s

95th percentile per-packet one-way delay: 73.475 ms

Loss rate: 1.09%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-07-10 05:06:45

End at: 2018-07-10 05:07:15

Local clock offset: 0.165 ms

Remote clock offset: 5.776 ms

# Below is generated by plot.py at 2018-07-10 08:25:17

# Datalink statistics

-- Total of 3 flows:

Average throughput: 74.07 Mbit/s

95th percentile per-packet one-way delay: 73.270 ms

Loss rate: 3.08%

-- Flow 1:

Average throughput: 60.35 Mbit/s

95th percentile per-packet one-way delay: 73.147 ms

Loss rate: 3.54%

-- Flow 2:

Average throughput: 15.88 Mbit/s

95th percentile per-packet one-way delay: 73.440 ms

Loss rate: 0.96%

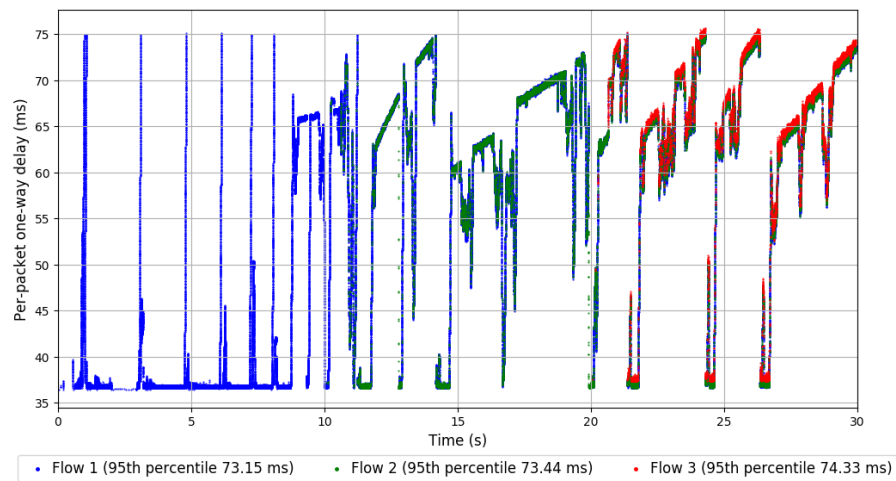
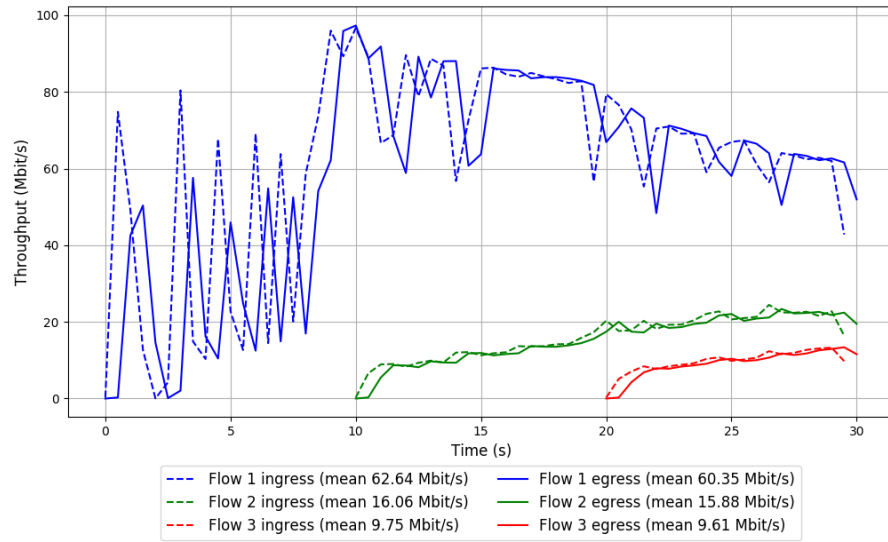
-- Flow 3:

Average throughput: 9.61 Mbit/s

95th percentile per-packet one-way delay: 74.334 ms

Loss rate: 1.08%

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



Run 5: Statistics of QUIC Cubic

Start at: 2018-07-10 05:34:24

End at: 2018-07-10 05:34:54

Local clock offset: -0.068 ms

Remote clock offset: 5.193 ms

# Below is generated by plot.py at 2018-07-10 08:25:17

# Datalink statistics

-- Total of 3 flows:

Average throughput: 83.86 Mbit/s

95th percentile per-packet one-way delay: 73.513 ms

Loss rate: 1.36%

-- Flow 1:

Average throughput: 68.43 Mbit/s

95th percentile per-packet one-way delay: 73.547 ms

Loss rate: 1.46%

-- Flow 2:

Average throughput: 14.63 Mbit/s

95th percentile per-packet one-way delay: 73.454 ms

Loss rate: 0.85%

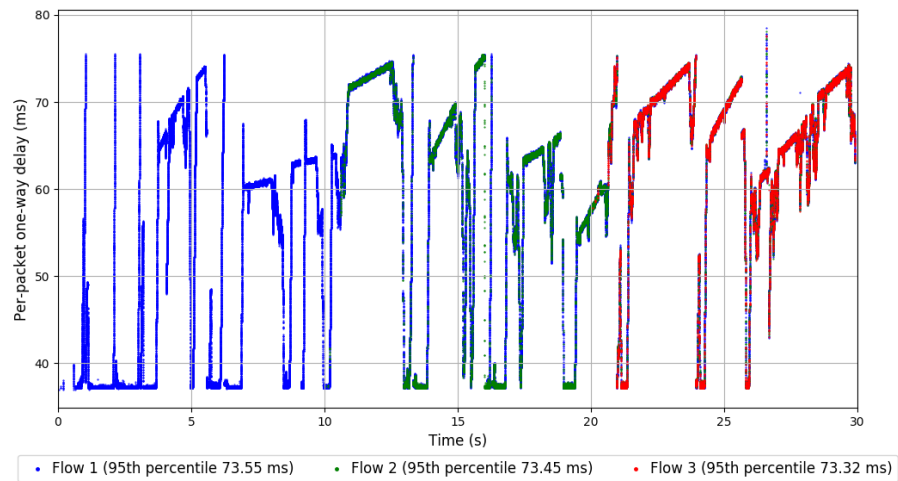
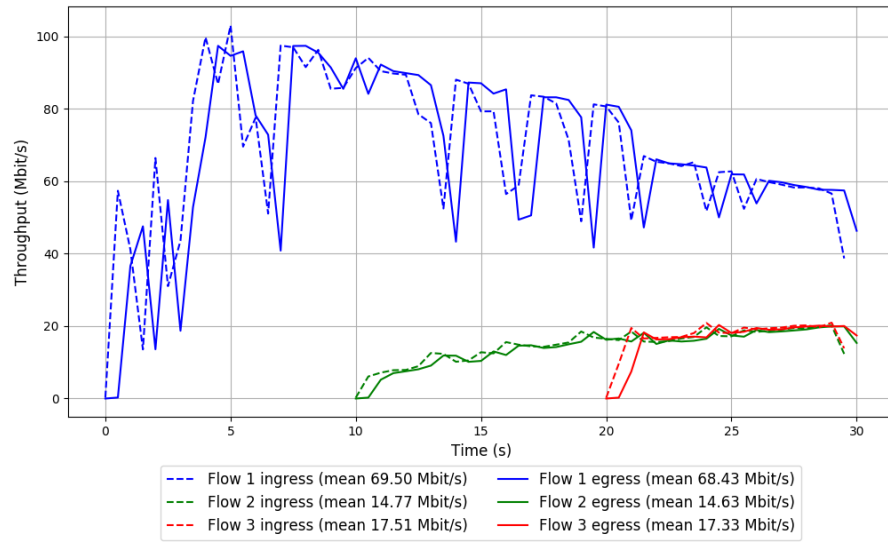
-- Flow 3:

Average throughput: 17.33 Mbit/s

95th percentile per-packet one-way delay: 73.322 ms

Loss rate: 0.97%

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



Run 6: Statistics of QUIC Cubic

Start at: 2018-07-10 06:01:08

End at: 2018-07-10 06:01:38

Local clock offset: -0.342 ms

Remote clock offset: 1.103 ms

# Below is generated by plot.py at 2018-07-10 08:25:24

# Datalink statistics

-- Total of 3 flows:

Average throughput: 86.12 Mbit/s

95th percentile per-packet one-way delay: 73.722 ms

Loss rate: 1.84%

-- Flow 1:

Average throughput: 61.90 Mbit/s

95th percentile per-packet one-way delay: 73.735 ms

Loss rate: 1.94%

-- Flow 2:

Average throughput: 26.39 Mbit/s

95th percentile per-packet one-way delay: 73.372 ms

Loss rate: 1.43%

-- Flow 3:

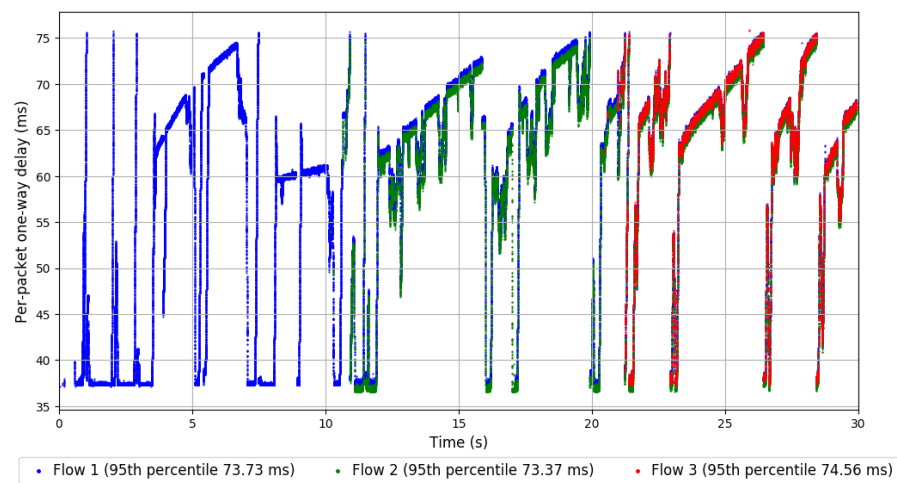
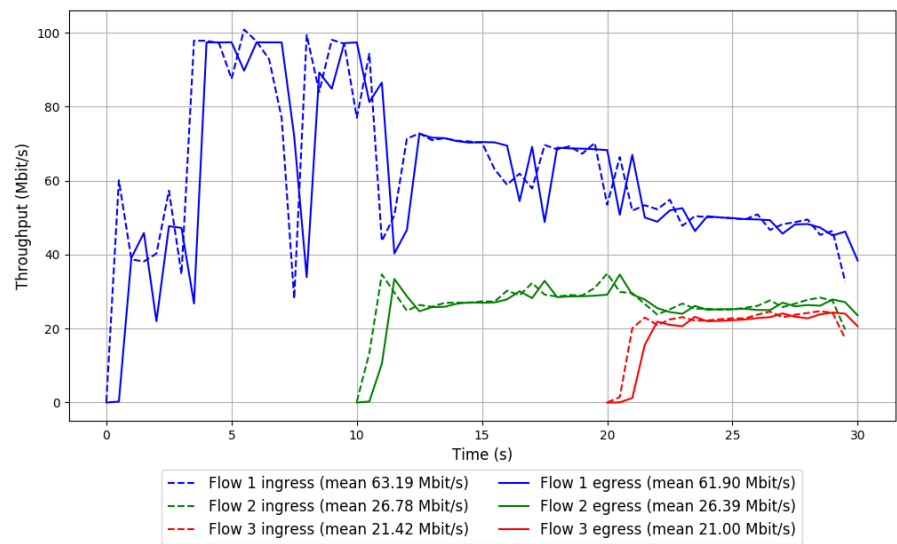
Average throughput: 21.00 Mbit/s

95th percentile per-packet one-way delay: 74.556 ms

Loss rate: 1.95%



Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-07-10 06:27:20

End at: 2018-07-10 06:27:50

Local clock offset: -0.104 ms

Remote clock offset: 3.997 ms

# Below is generated by plot.py at 2018-07-10 08:25:37

# Datalink statistics

-- Total of 3 flows:

Average throughput: 87.57 Mbit/s

95th percentile per-packet one-way delay: 73.481 ms

Loss rate: 1.48%

-- Flow 1:

Average throughput: 65.29 Mbit/s

95th percentile per-packet one-way delay: 73.680 ms

Loss rate: 1.60%

-- Flow 2:

Average throughput: 28.81 Mbit/s

95th percentile per-packet one-way delay: 73.123 ms

Loss rate: 1.19%

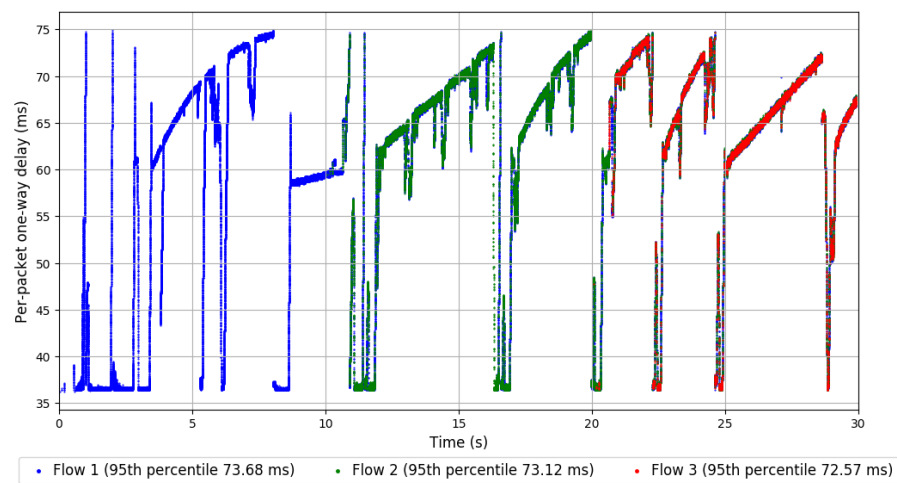
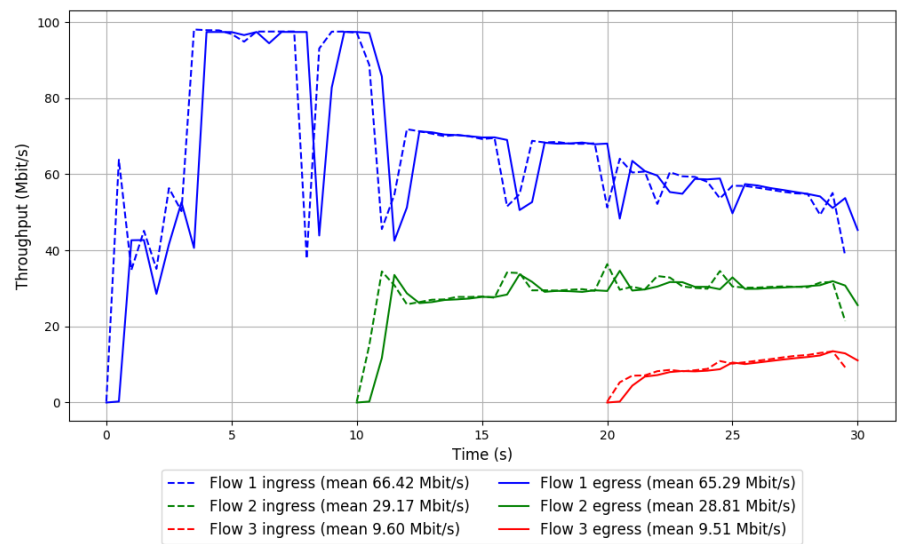
-- Flow 3:

Average throughput: 9.51 Mbit/s

95th percentile per-packet one-way delay: 72.573 ms

Loss rate: 0.73%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-07-10 06:52:41

End at: 2018-07-10 06:53:11

Local clock offset: 0.1 ms

Remote clock offset: 4.219 ms

# Below is generated by plot.py at 2018-07-10 08:25:37

# Datalink statistics

-- Total of 3 flows:

Average throughput: 72.12 Mbit/s

95th percentile per-packet one-way delay: 73.537 ms

Loss rate: 4.23%

-- Flow 1:

Average throughput: 52.97 Mbit/s

95th percentile per-packet one-way delay: 73.776 ms

Loss rate: 4.86%

-- Flow 2:

Average throughput: 11.75 Mbit/s

95th percentile per-packet one-way delay: 72.899 ms

Loss rate: 1.41%

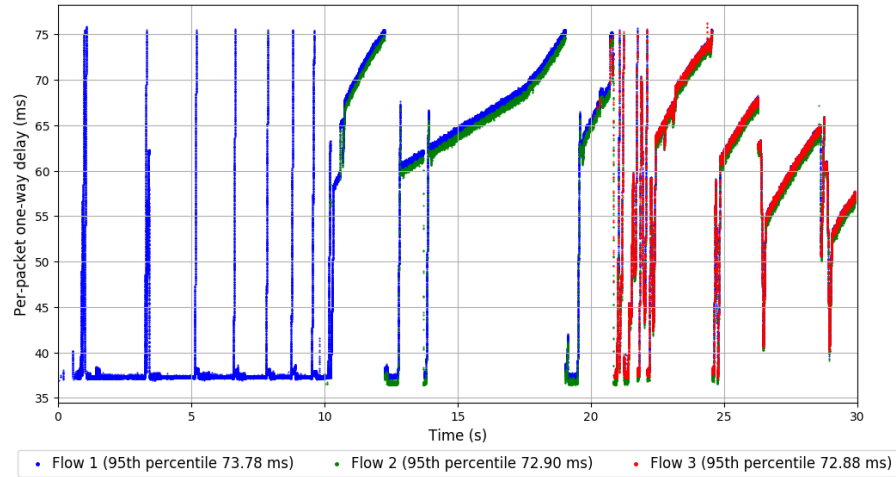
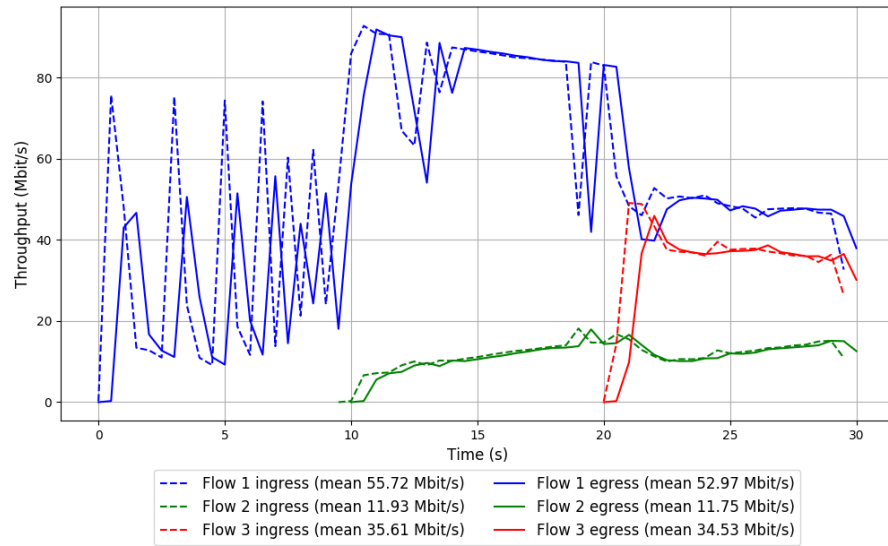
-- Flow 3:

Average throughput: 34.53 Mbit/s

95th percentile per-packet one-way delay: 72.881 ms

Loss rate: 3.14%

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



Run 9: Statistics of QUIC Cubic

Start at: 2018-07-10 07:17:20

End at: 2018-07-10 07:17:50

Local clock offset: 0.195 ms

Remote clock offset: 3.85 ms

# Below is generated by plot.py at 2018-07-10 08:25:42

# Datalink statistics

-- Total of 3 flows:

Average throughput: 72.30 Mbit/s

95th percentile per-packet one-way delay: 73.025 ms

Loss rate: 3.57%

-- Flow 1:

Average throughput: 55.00 Mbit/s

95th percentile per-packet one-way delay: 73.025 ms

Loss rate: 4.31%

-- Flow 2:

Average throughput: 13.41 Mbit/s

95th percentile per-packet one-way delay: 73.639 ms

Loss rate: 1.07%

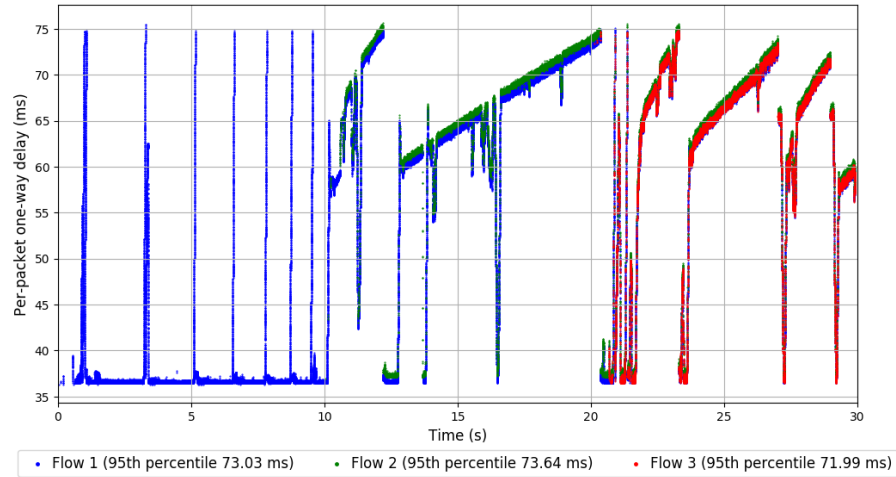
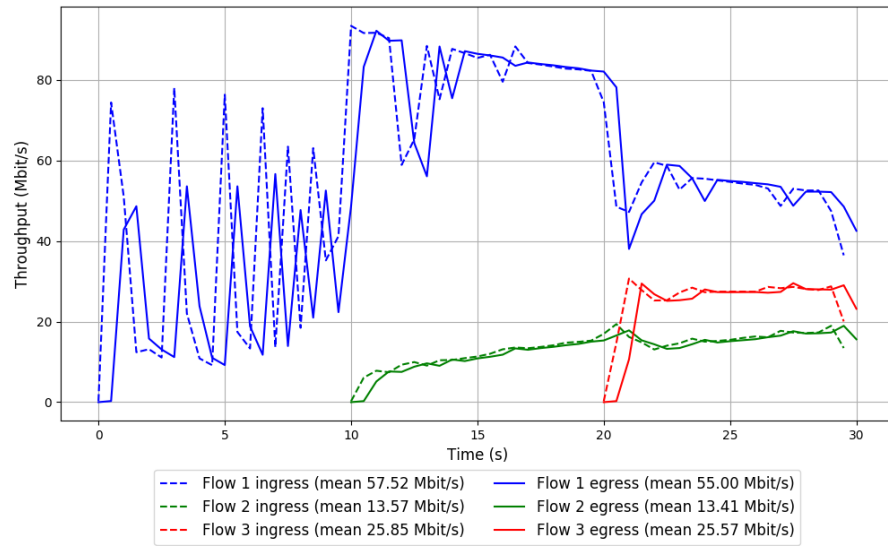
-- Flow 3:

Average throughput: 25.57 Mbit/s

95th percentile per-packet one-way delay: 71.991 ms

Loss rate: 1.22%

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



Run 10: Statistics of QUIC Cubic

Start at: 2018-07-10 07:43:08

End at: 2018-07-10 07:43:38

Local clock offset: 0.199 ms

Remote clock offset: 4.292 ms

# Below is generated by plot.py at 2018-07-10 08:25:49

# Datalink statistics

-- Total of 3 flows:

Average throughput: 71.51 Mbit/s

95th percentile per-packet one-way delay: 74.153 ms

Loss rate: 3.70%

-- Flow 1:

Average throughput: 55.93 Mbit/s

95th percentile per-packet one-way delay: 74.218 ms

Loss rate: 4.35%

-- Flow 2:

Average throughput: 13.95 Mbit/s

95th percentile per-packet one-way delay: 74.245 ms

Loss rate: 1.13%

-- Flow 3:

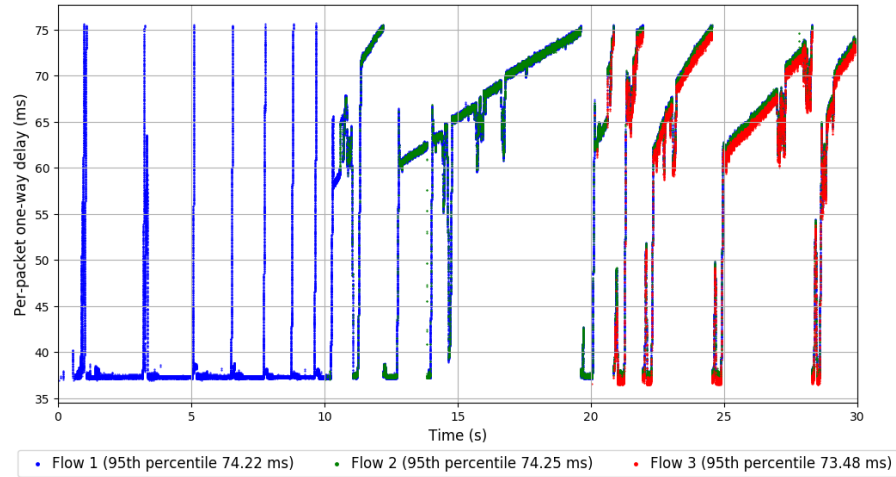
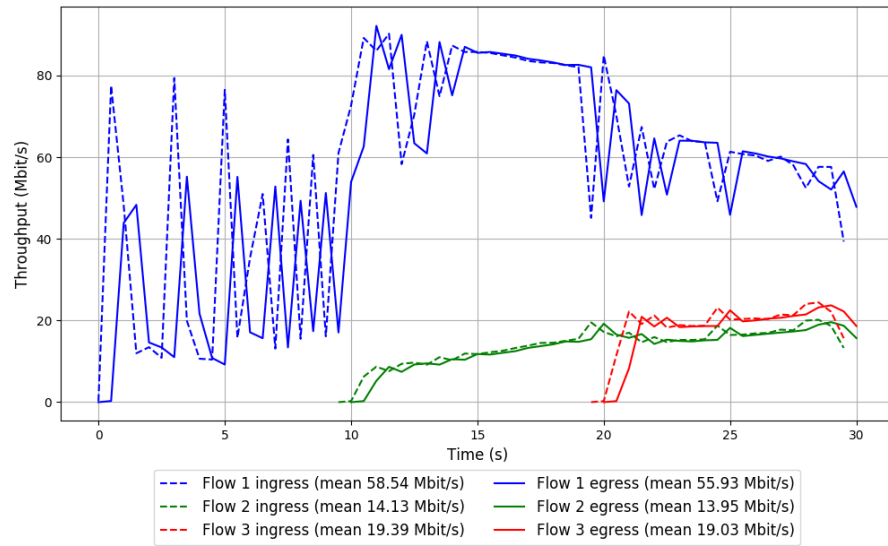
Average throughput: 19.03 Mbit/s

95th percentile per-packet one-way delay: 73.478 ms

Loss rate: 1.50%



# Run 10: Report of QUIC Cubic — Data Link

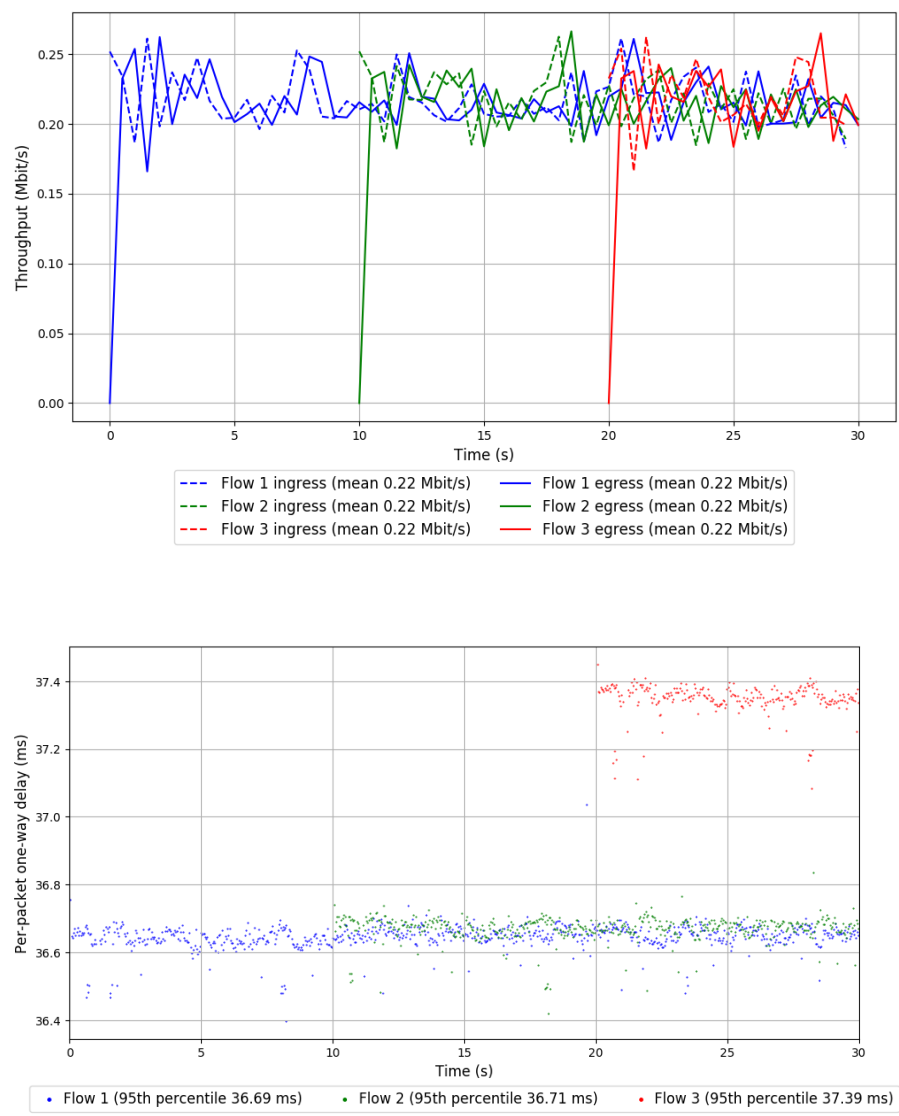


```
Run 1: Statistics of SReAM

Start at: 2018-07-10 03:55:26
End at: 2018-07-10 03:55:56
Local clock offset: 0.575 ms
Remote clock offset: -1.042 ms

# Below is generated by plot.py at 2018-07-10 08:25:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 37.370 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 36.685 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 36.707 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 37.393 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

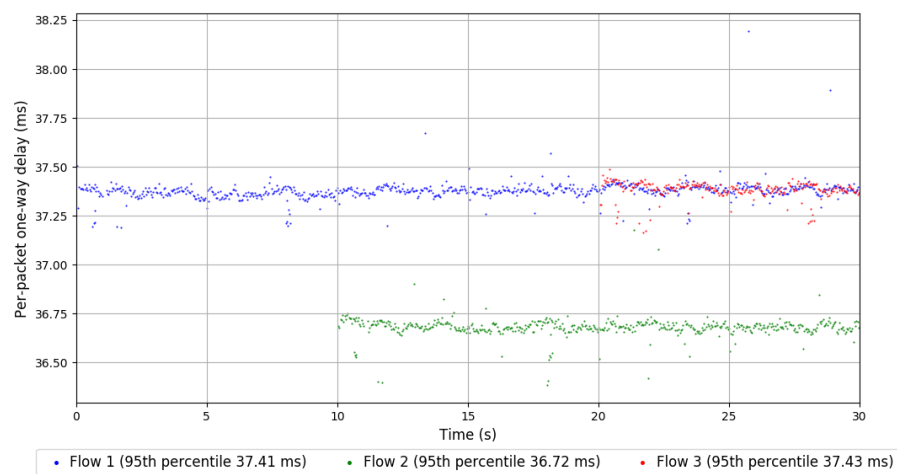
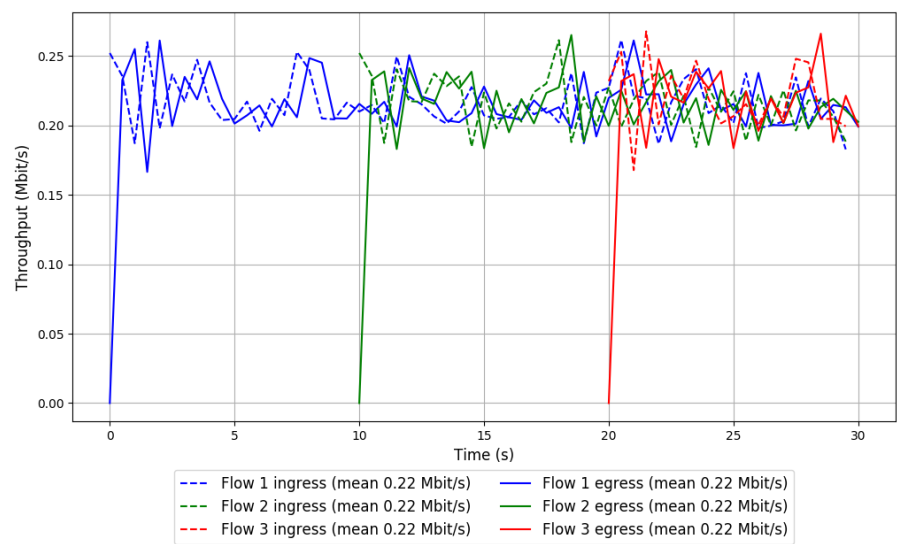


Run 2: Statistics of SReAM

Start at: 2018-07-10 04:23:54  
End at: 2018-07-10 04:24:24  
Local clock offset: 0.38 ms  
Remote clock offset: -2.159 ms

# Below is generated by plot.py at 2018-07-10 08:25:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 37.415 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 37.415 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 36.724 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 37.428 ms  
Loss rate: 0.00%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SReAM

Start at: 2018-07-10 04:51:51

End at: 2018-07-10 04:52:21

Local clock offset: 0.292 ms

Remote clock offset: 5.172 ms

# Below is generated by plot.py at 2018-07-10 08:25:49

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 37.307 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 36.638 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 37.326 ms

Loss rate: 0.00%

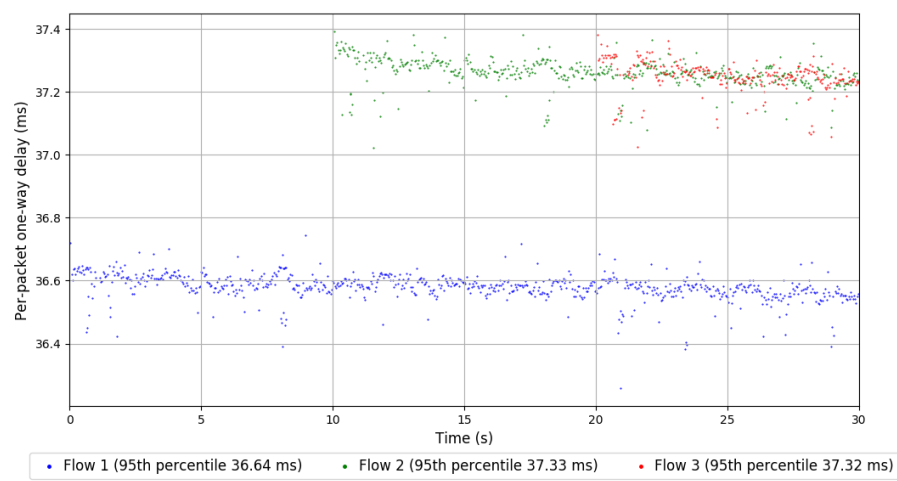
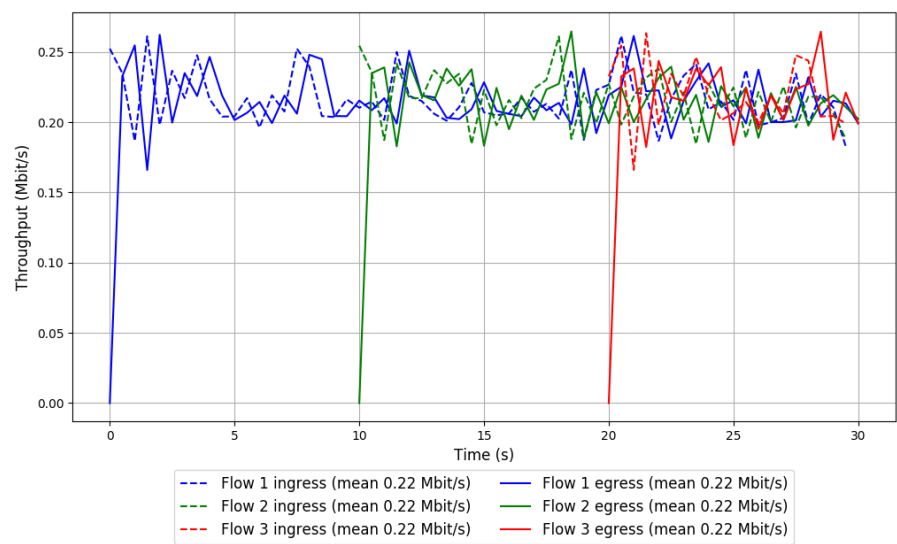
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 37.316 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SReAM

Start at: 2018-07-10 05:19:57

End at: 2018-07-10 05:20:27

Local clock offset: 0.09 ms

Remote clock offset: 4.957 ms

# Below is generated by plot.py at 2018-07-10 08:25:49

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 41.772 ms

Loss rate: 0.14%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 40.933 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: 41.813 ms

Loss rate: 0.23%

-- Flow 3:

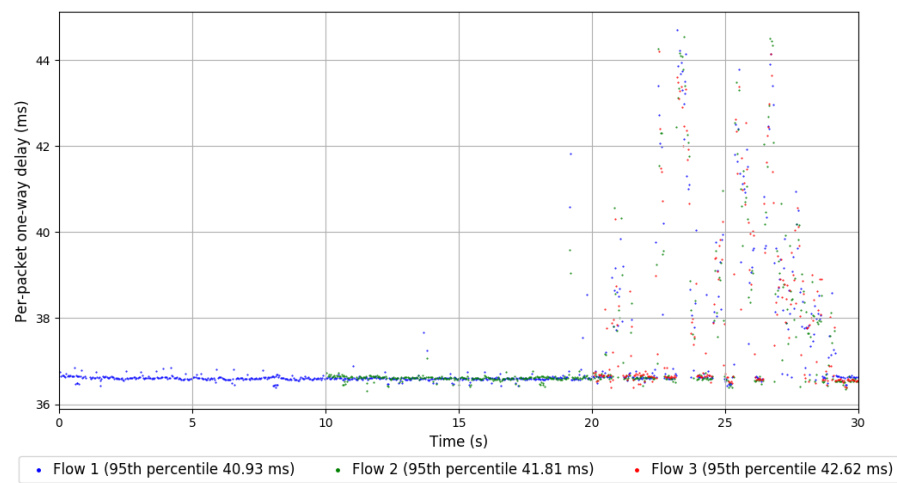
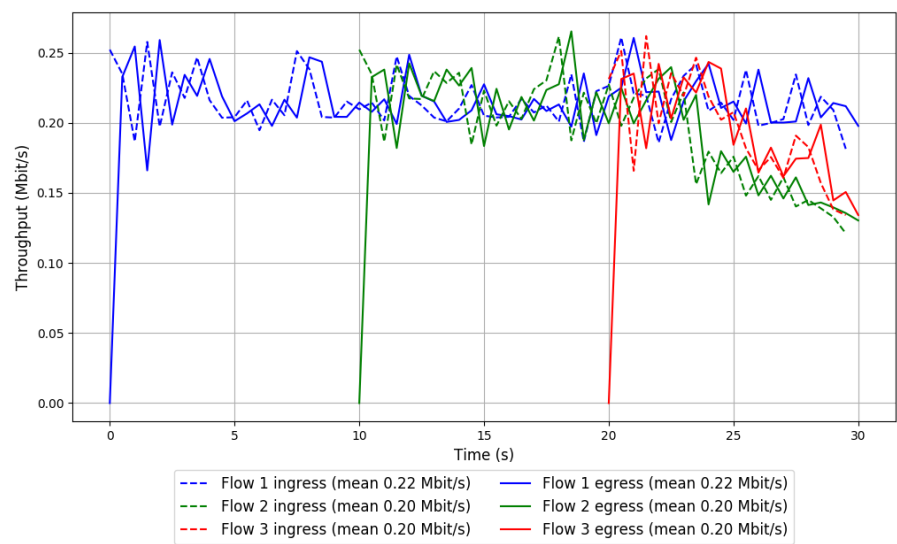
Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: 42.621 ms

Loss rate: 0.42%



Run 4: Report of SReAM — Data Link



Run 5: Statistics of SReAM

Start at: 2018-07-10 05:47:18

End at: 2018-07-10 05:47:48

Local clock offset: -0.188 ms

Remote clock offset: 2.37 ms

# Below is generated by plot.py at 2018-07-10 08:25:49

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 37.442 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 37.435 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 37.437 ms

Loss rate: 0.00%

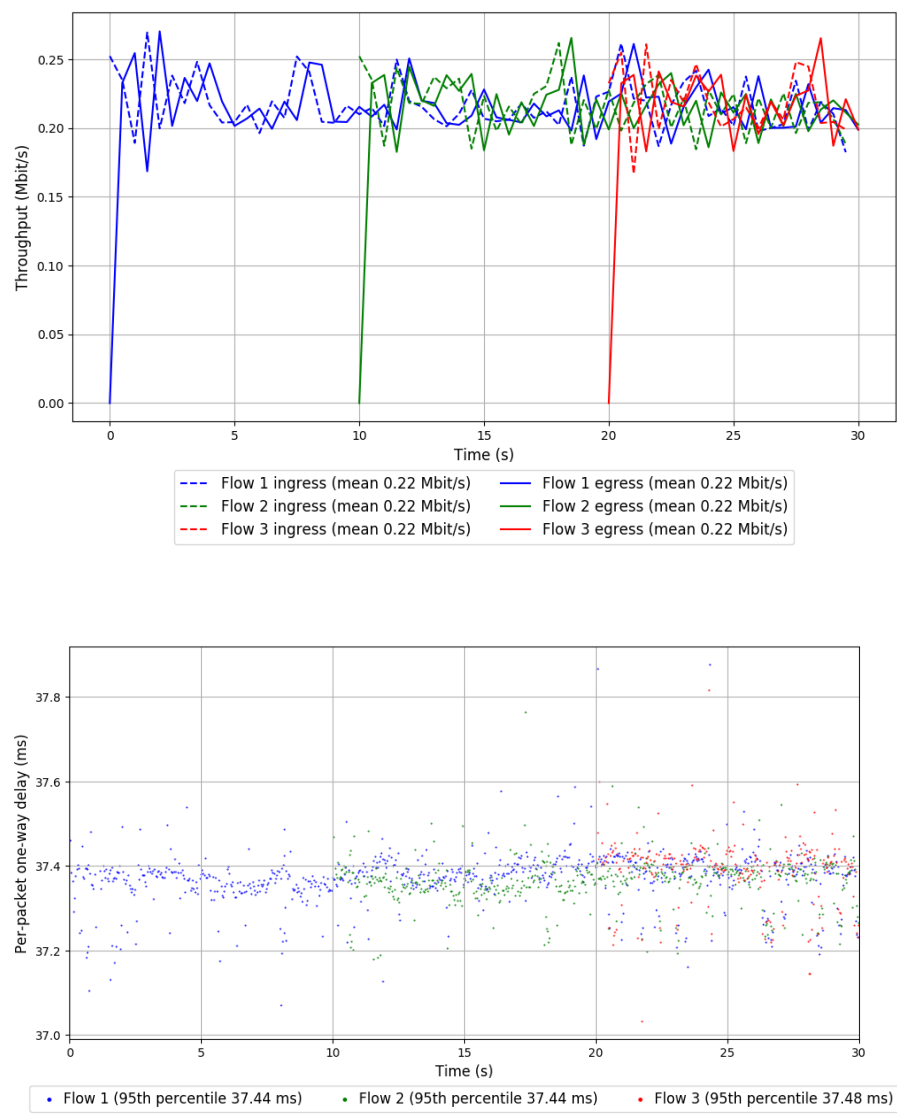
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 37.476 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SReAM

Start at: 2018-07-10 06:13:50

End at: 2018-07-10 06:14:20

Local clock offset: -0.31 ms

Remote clock offset: 1.443 ms

# Below is generated by plot.py at 2018-07-10 08:25:49

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 37.291 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 37.315 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 36.591 ms

Loss rate: 0.00%

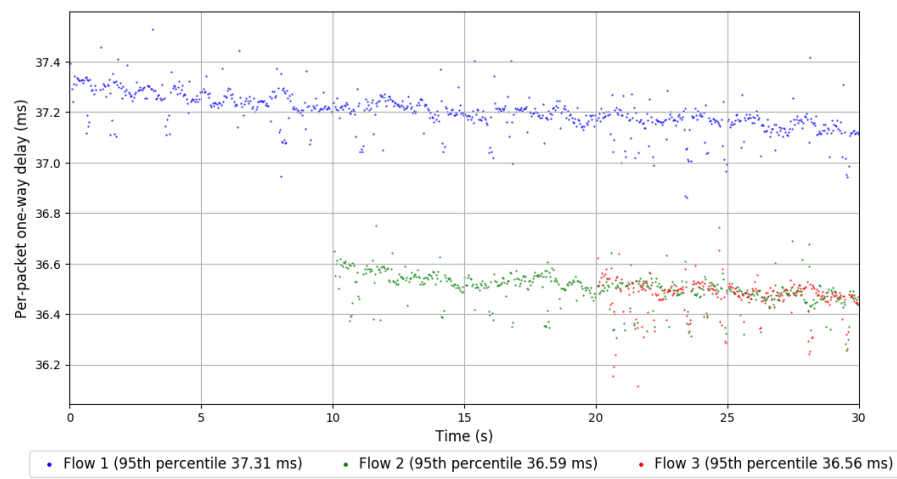
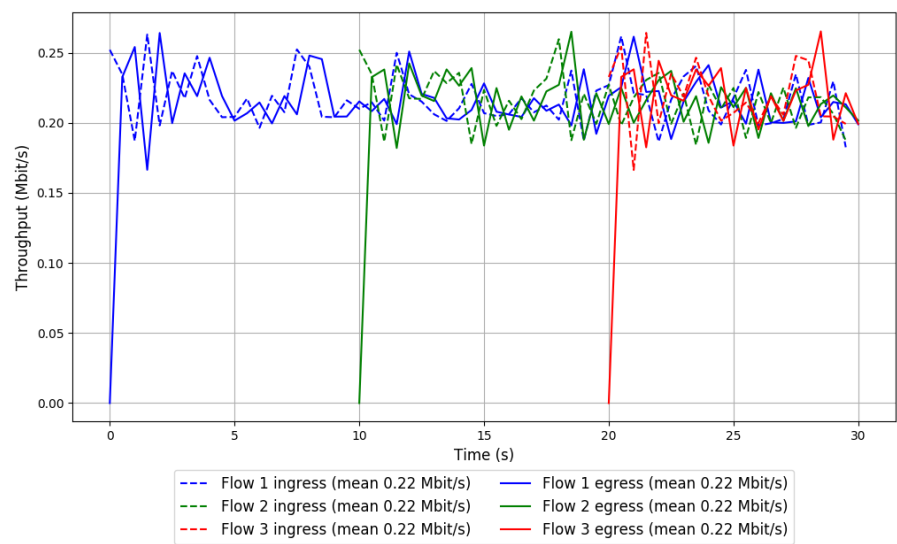
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 36.556 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link

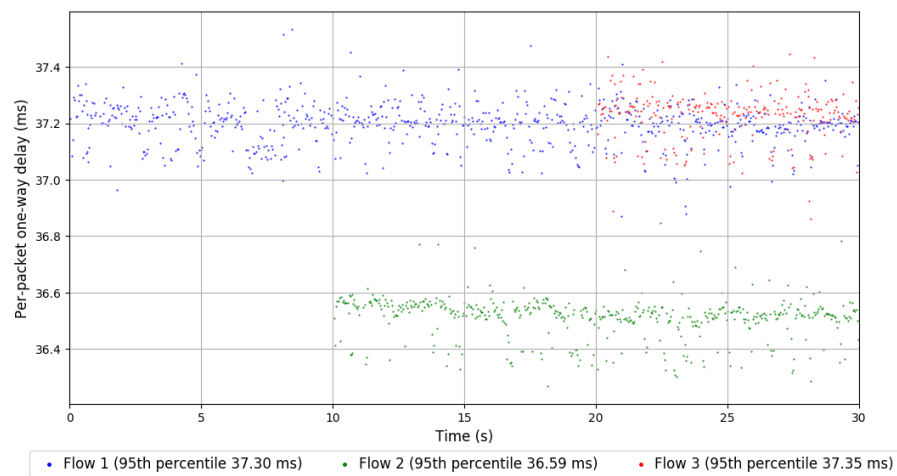
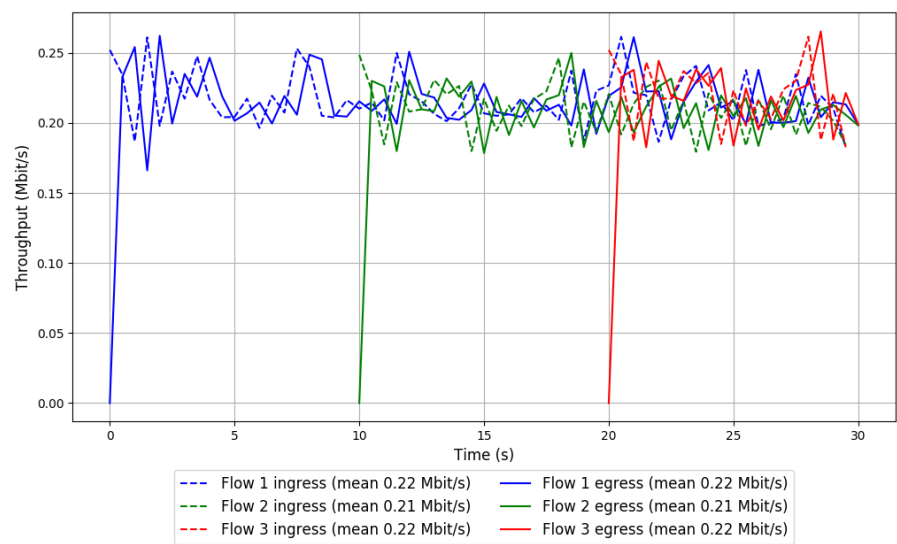


Run 7: Statistics of SReAM

Start at: 2018-07-10 06:39:34  
End at: 2018-07-10 06:40:04  
Local clock offset: -0.003 ms  
Remote clock offset: 4.953 ms

# Below is generated by plot.py at 2018-07-10 08:25:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 37.295 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 37.301 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 36.591 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 37.350 ms  
Loss rate: 0.00%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SReAM

Start at: 2018-07-10 07:04:12

End at: 2018-07-10 07:04:42

Local clock offset: 0.178 ms

Remote clock offset: 3.889 ms

# Below is generated by plot.py at 2018-07-10 08:25:49

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 37.490 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 37.491 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 37.476 ms

Loss rate: 0.00%

-- Flow 3:

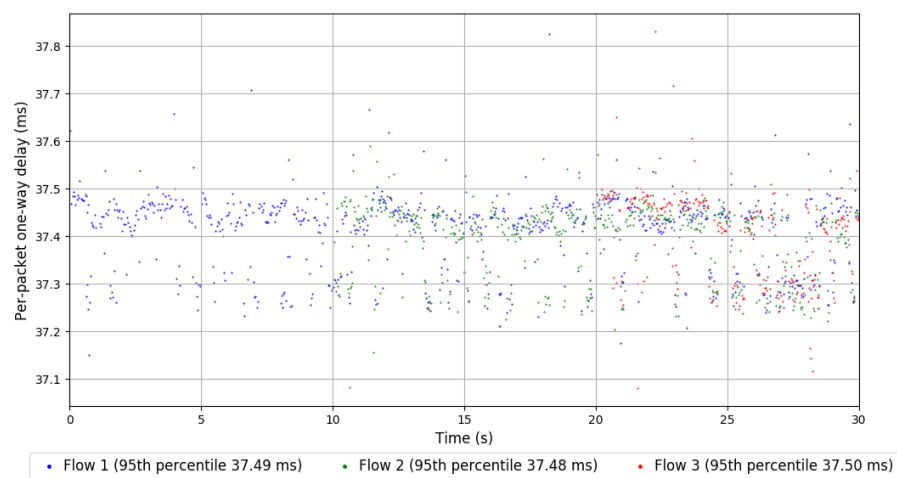
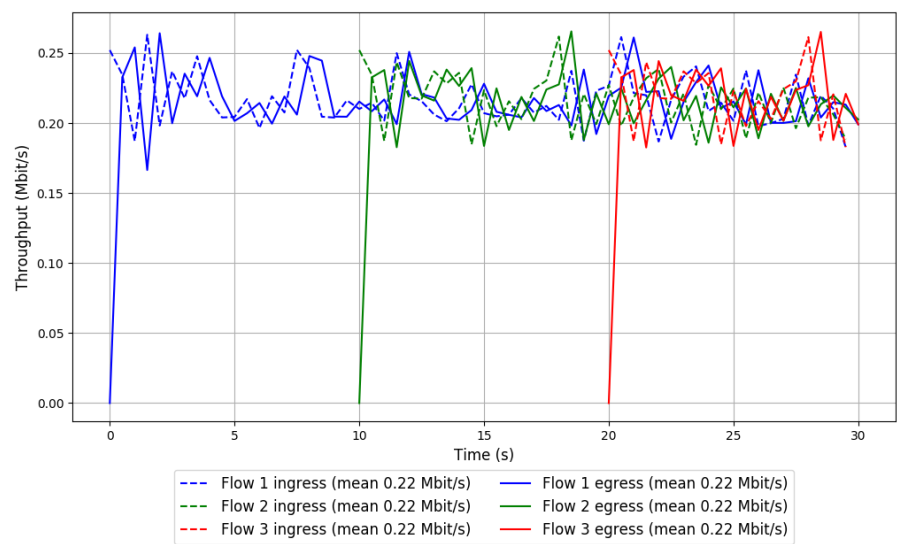
Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 37.498 ms

Loss rate: 0.00%



Run 8: Report of SReAM — Data Link



Run 9: Statistics of SReAM

Start at: 2018-07-10 07:29:27

End at: 2018-07-10 07:29:57

Local clock offset: 0.205 ms

Remote clock offset: 4.069 ms

# Below is generated by plot.py at 2018-07-10 08:25:49

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 37.349 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 36.801 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 37.368 ms

Loss rate: 0.00%

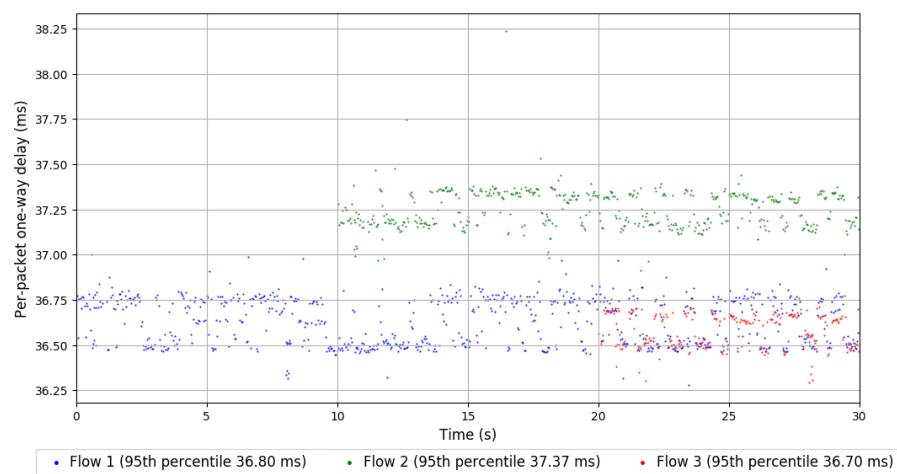
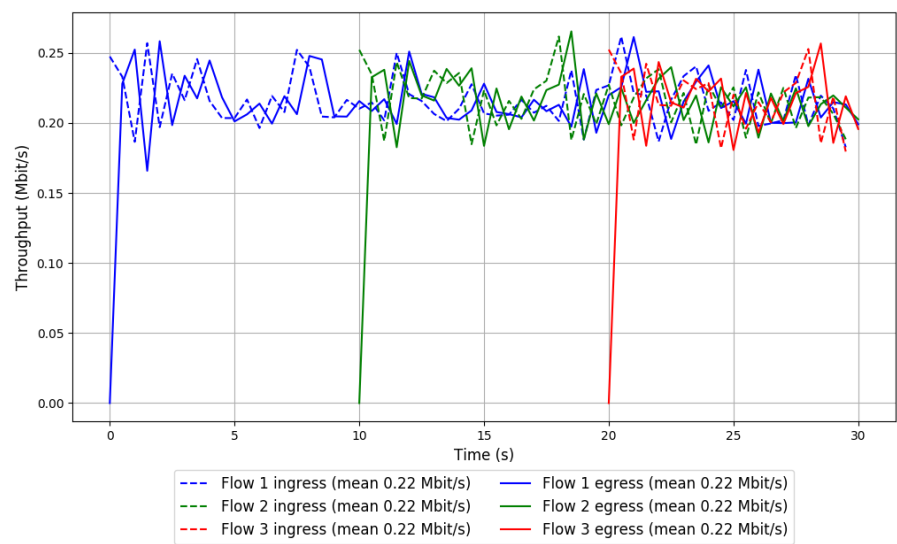
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 36.703 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-07-10 07:54:53

End at: 2018-07-10 07:55:23

Local clock offset: 9.157 ms

Remote clock offset: 4.438 ms

# Below is generated by plot.py at 2018-07-10 08:25:49

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 27.721 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 27.713 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 27.726 ms

Loss rate: 0.00%

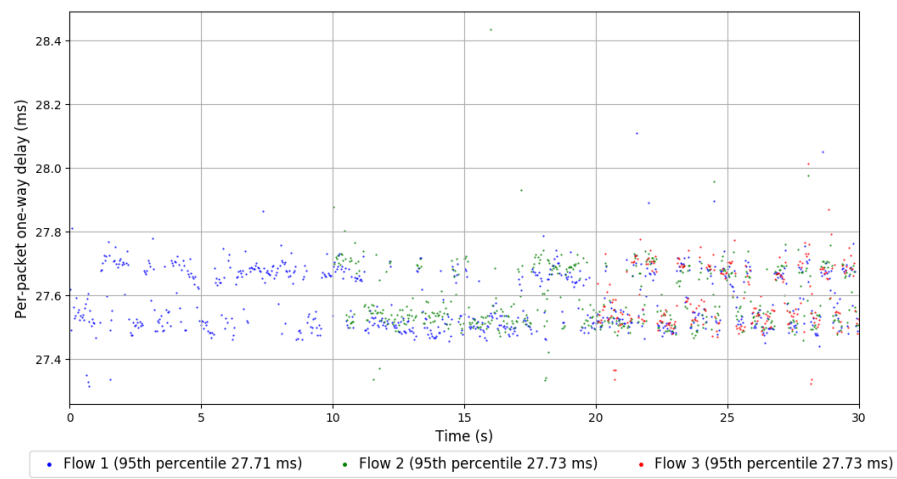
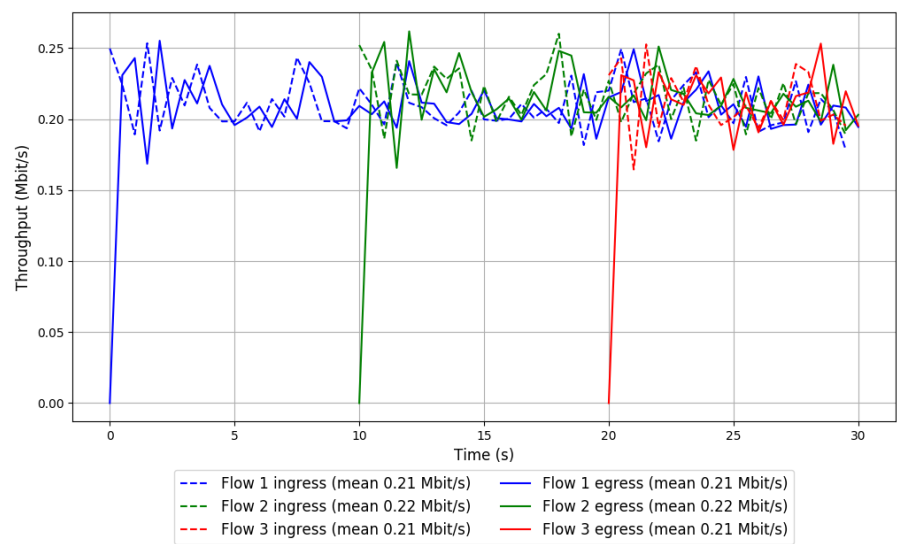
-- Flow 3:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 27.729 ms

Loss rate: 0.00%

Run 10: Report of SReAM — Data Link

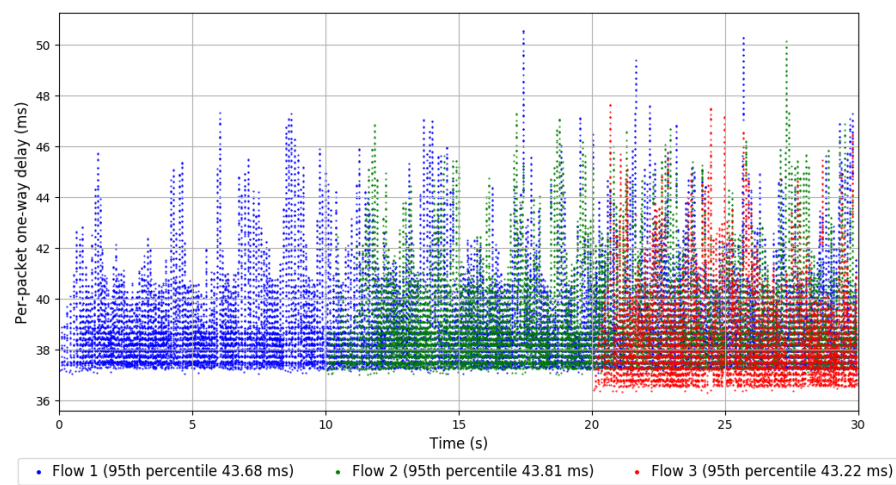
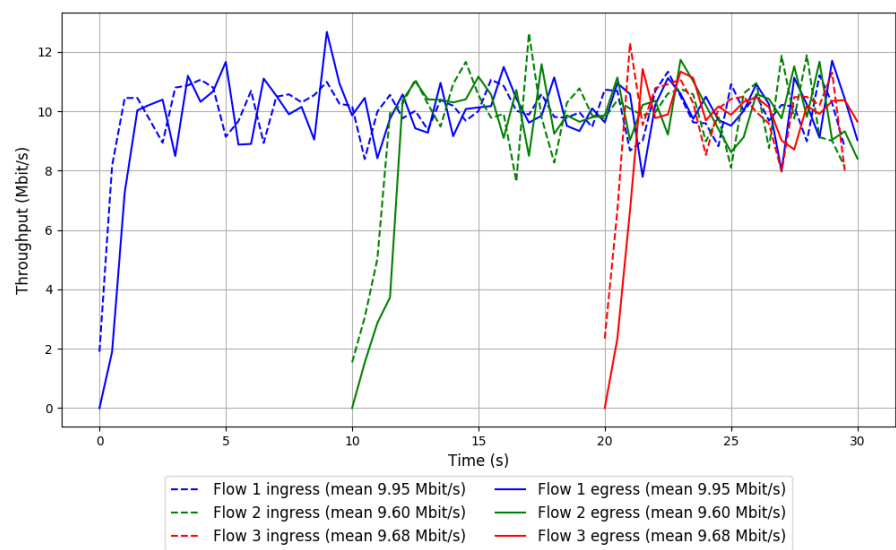


Run 1: Statistics of Sprout

Start at: 2018-07-10 04:01:35  
End at: 2018-07-10 04:02:05  
Local clock offset: 0.565 ms  
Remote clock offset: -1.308 ms

# Below is generated by plot.py at 2018-07-10 08:25:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 19.53 Mbit/s  
95th percentile per-packet one-way delay: 43.667 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 9.95 Mbit/s  
95th percentile per-packet one-way delay: 43.676 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 9.60 Mbit/s  
95th percentile per-packet one-way delay: 43.814 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 9.68 Mbit/s  
95th percentile per-packet one-way delay: 43.217 ms  
Loss rate: 0.00%

Run 1: Report of Sprout — Data Link



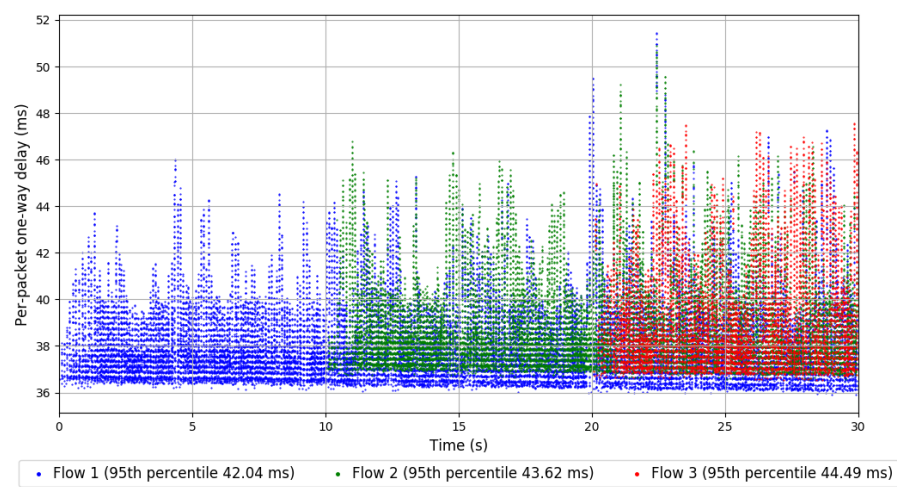
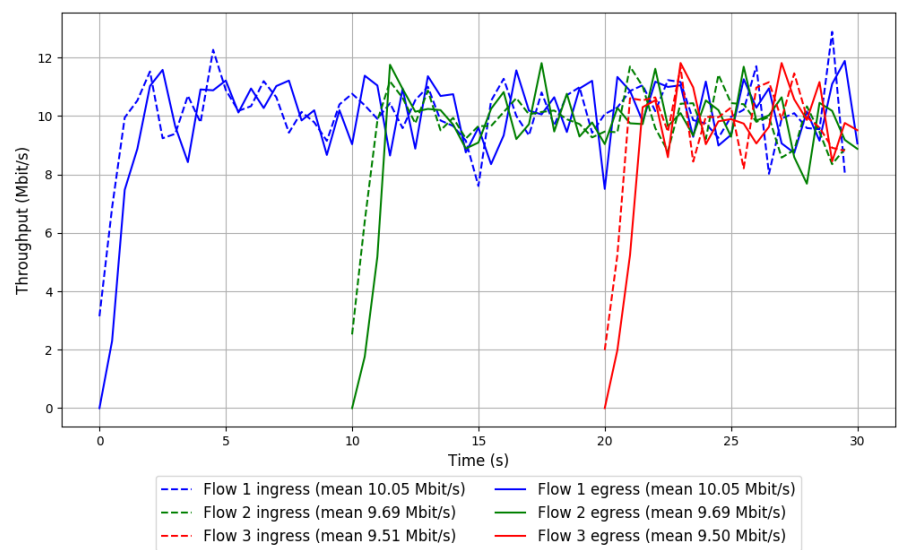
## Run 2: Statistics of Sprout

Start at: 2018-07-10 04:30:06  
End at: 2018-07-10 04:30:36  
Local clock offset: 0.344 ms  
Remote clock offset: -1.694 ms

```
# Below is generated by plot.py at 2018-07-10 08:25:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 19.63 Mbit/s
95th percentile per-packet one-way delay: 43.262 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 10.05 Mbit/s
95th percentile per-packet one-way delay: 42.037 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 9.69 Mbit/s
95th percentile per-packet one-way delay: 43.625 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 9.50 Mbit/s
95th percentile per-packet one-way delay: 44.488 ms
Loss rate: 0.00%
```



Run 2: Report of Sprout — Data Link

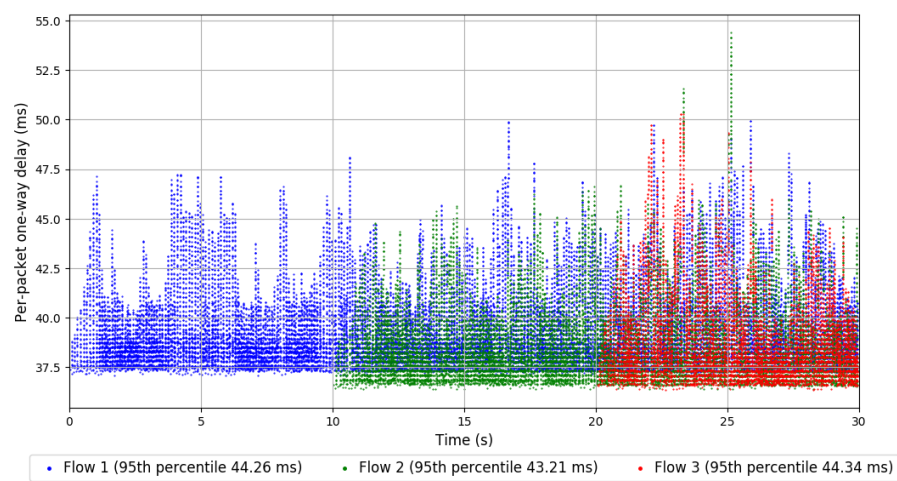
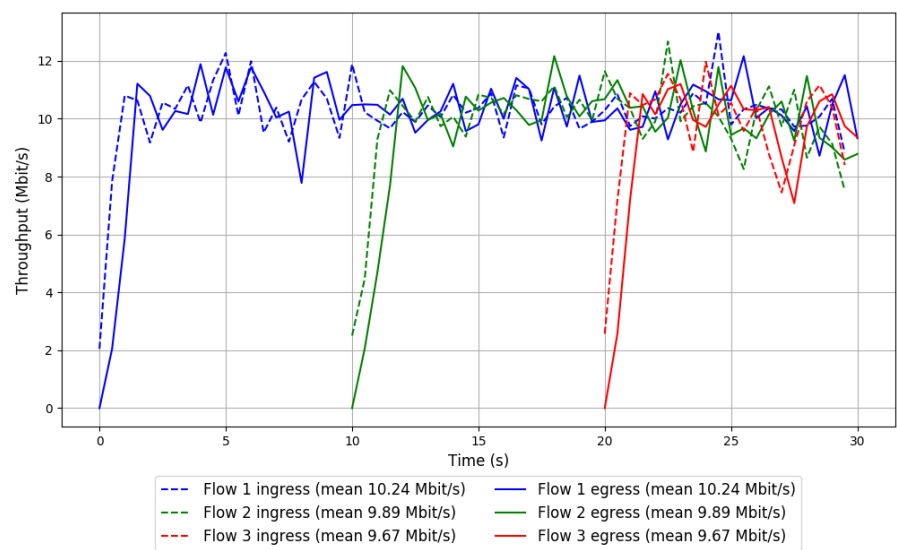


Run 3: Statistics of Sprout

Start at: 2018-07-10 04:58:02  
End at: 2018-07-10 04:58:32  
Local clock offset: 0.261 ms  
Remote clock offset: 5.98 ms

# Below is generated by plot.py at 2018-07-10 08:25:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 20.01 Mbit/s  
95th percentile per-packet one-way delay: 43.994 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 10.24 Mbit/s  
95th percentile per-packet one-way delay: 44.258 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 9.89 Mbit/s  
95th percentile per-packet one-way delay: 43.209 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 9.67 Mbit/s  
95th percentile per-packet one-way delay: 44.339 ms  
Loss rate: 0.00%

Run 3: Report of Sprout — Data Link

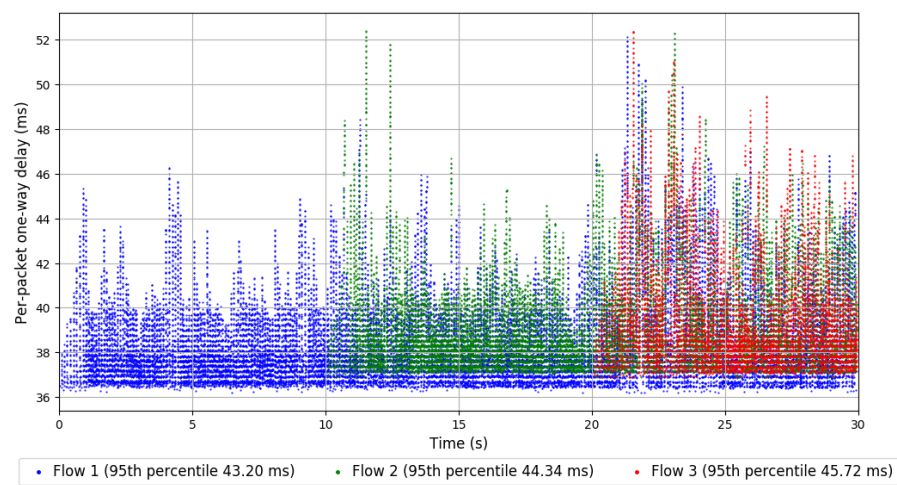
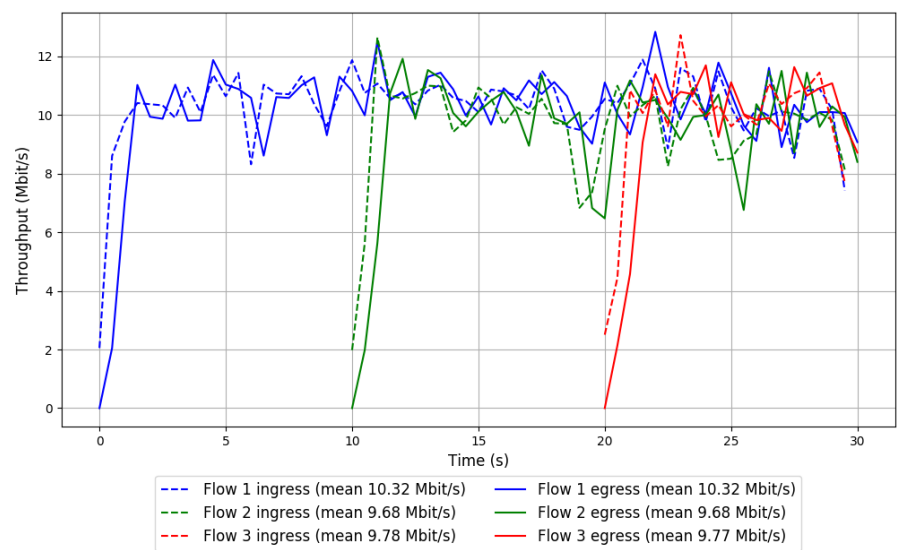


#### Run 4: Statistics of Sprout

Start at: 2018-07-10 05:25:55  
End at: 2018-07-10 05:26:25  
Local clock offset: 0.049 ms  
Remote clock offset: 4.969 ms

```
# Below is generated by plot.py at 2018-07-10 08:25:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 19.98 Mbit/s
95th percentile per-packet one-way delay: 44.136 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 10.32 Mbit/s
95th percentile per-packet one-way delay: 43.200 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 9.68 Mbit/s
95th percentile per-packet one-way delay: 44.338 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 9.77 Mbit/s
95th percentile per-packet one-way delay: 45.715 ms
Loss rate: 0.00%
```

Run 4: Report of Sprout — Data Link

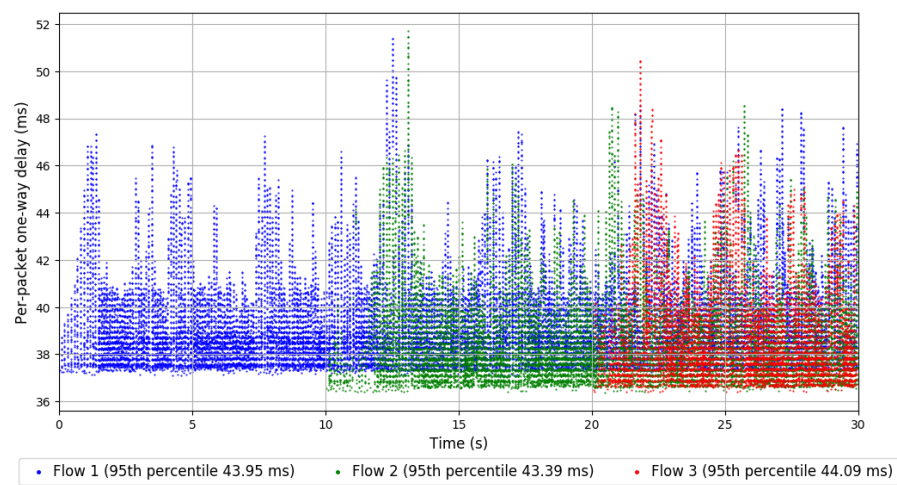
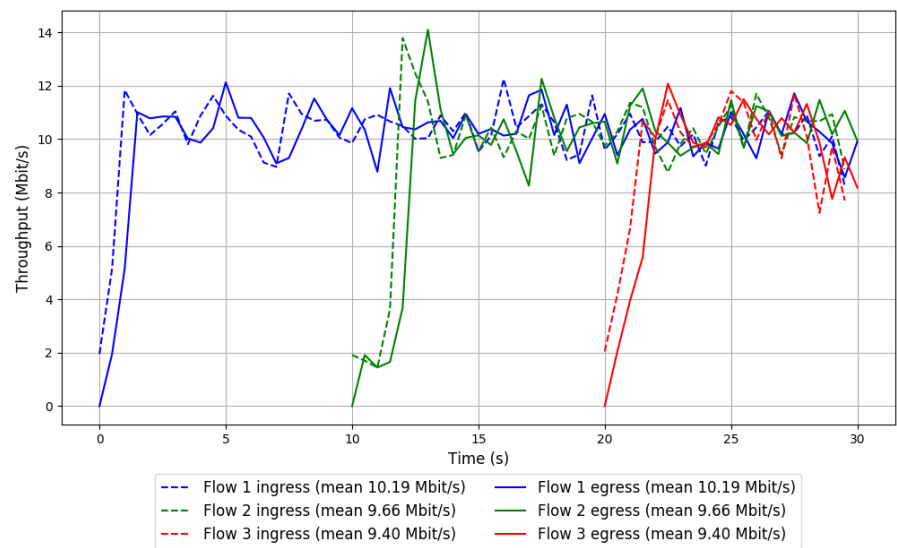


Run 5: Statistics of Sprout

Start at: 2018-07-10 05:53:03  
End at: 2018-07-10 05:53:33  
Local clock offset: -0.216 ms  
Remote clock offset: 1.712 ms

```
# Below is generated by plot.py at 2018-07-10 08:25:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 19.72 Mbit/s
95th percentile per-packet one-way delay: 43.823 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 10.19 Mbit/s
95th percentile per-packet one-way delay: 43.952 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 9.66 Mbit/s
95th percentile per-packet one-way delay: 43.387 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 9.40 Mbit/s
95th percentile per-packet one-way delay: 44.088 ms
Loss rate: 0.00%
```

Run 5: Report of Sprout — Data Link



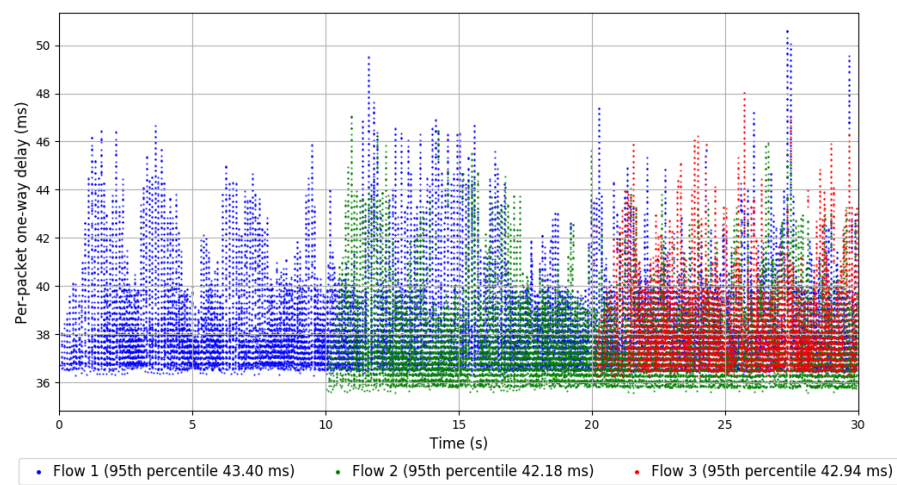
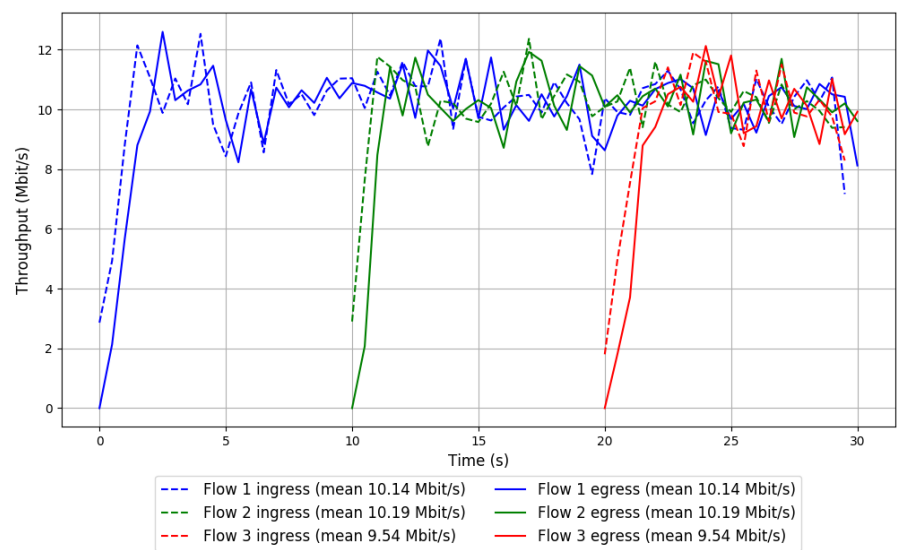
Run 6: Statistics of Sprout

Start at: 2018-07-10 06:19:37  
End at: 2018-07-10 06:20:07  
Local clock offset: -0.261 ms  
Remote clock offset: 2.246 ms

# Below is generated by plot.py at 2018-07-10 08:25:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 20.06 Mbit/s  
95th percentile per-packet one-way delay: 42.959 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 10.14 Mbit/s  
95th percentile per-packet one-way delay: 43.401 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 10.19 Mbit/s  
95th percentile per-packet one-way delay: 42.183 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 9.54 Mbit/s  
95th percentile per-packet one-way delay: 42.935 ms  
Loss rate: 0.00%



Run 6: Report of Sprout — Data Link

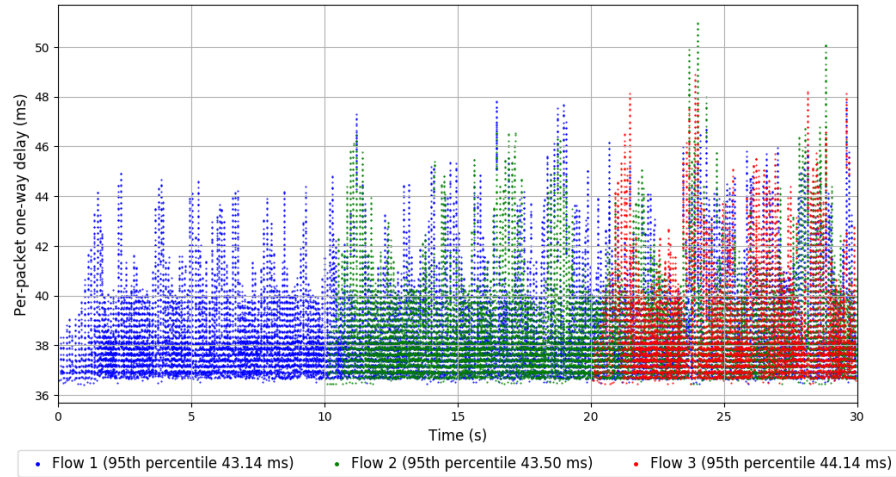
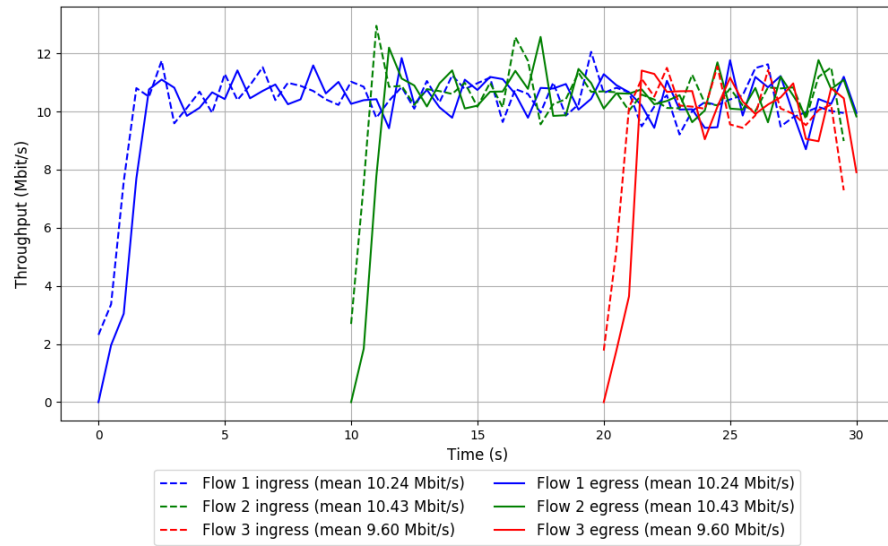


Run 7: Statistics of Sprout

Start at: 2018-07-10 06:45:10  
End at: 2018-07-10 06:45:40  
Local clock offset: -0.034 ms  
Remote clock offset: 5.468 ms

# Below is generated by plot.py at 2018-07-10 08:25:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 20.35 Mbit/s  
95th percentile per-packet one-way delay: 43.438 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 10.24 Mbit/s  
95th percentile per-packet one-way delay: 43.144 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 10.43 Mbit/s  
95th percentile per-packet one-way delay: 43.497 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 9.60 Mbit/s  
95th percentile per-packet one-way delay: 44.142 ms  
Loss rate: 0.00%

## Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-07-10 07:09:51

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

Local clock offset: 0.139 ms

Remote clock offset: 3.755 ms

# Below is generated by plot.py at 2018-07-10 08:25:52

# Datalink statistics

-- Total of 3 flows:

Average throughput: 20.17 Mbit/s

95th percentile per-packet one-way delay: 43.576 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 10.20 Mbit/s

95th percentile per-packet one-way delay: 43.777 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 9.99 Mbit/s

95th percentile per-packet one-way delay: 43.080 ms

Loss rate: 0.00%

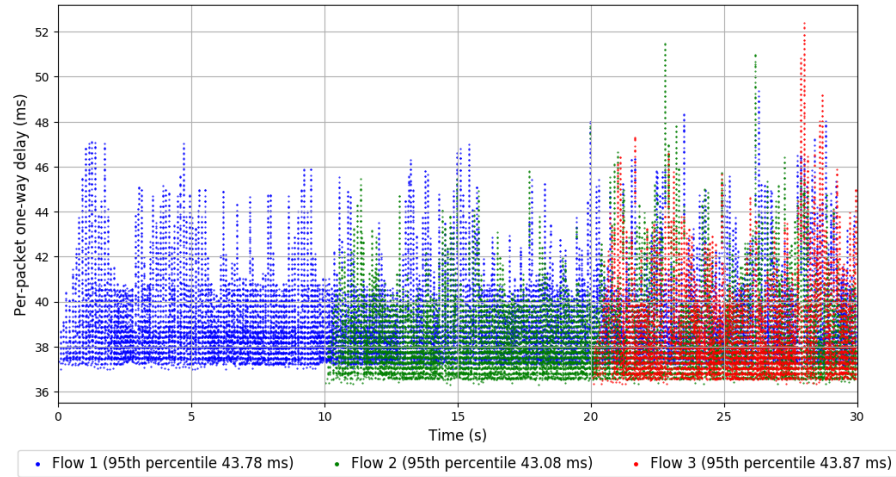
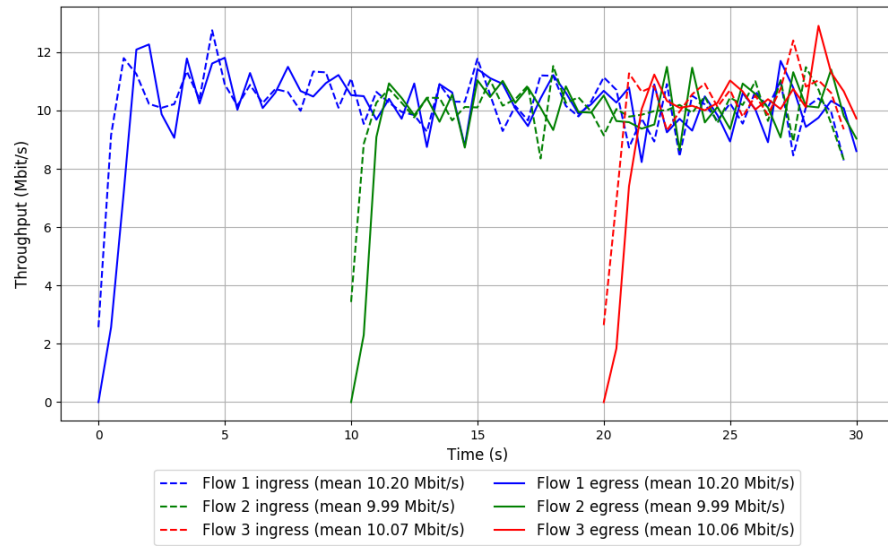
-- Flow 3:

Average throughput: 10.06 Mbit/s

95th percentile per-packet one-way delay: 43.870 ms

Loss rate: 0.00%

## Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-07-10 07:35:13

End at: 2018-07-10 07:35:43

Local clock offset: 0.11 ms

Remote clock offset: 4.056 ms

# Below is generated by plot.py at 2018-07-10 08:25:58

# Datalink statistics

-- Total of 3 flows:

Average throughput: 20.03 Mbit/s

95th percentile per-packet one-way delay: 43.752 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 10.11 Mbit/s

95th percentile per-packet one-way delay: 43.711 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 10.12 Mbit/s

95th percentile per-packet one-way delay: 43.878 ms

Loss rate: 0.00%

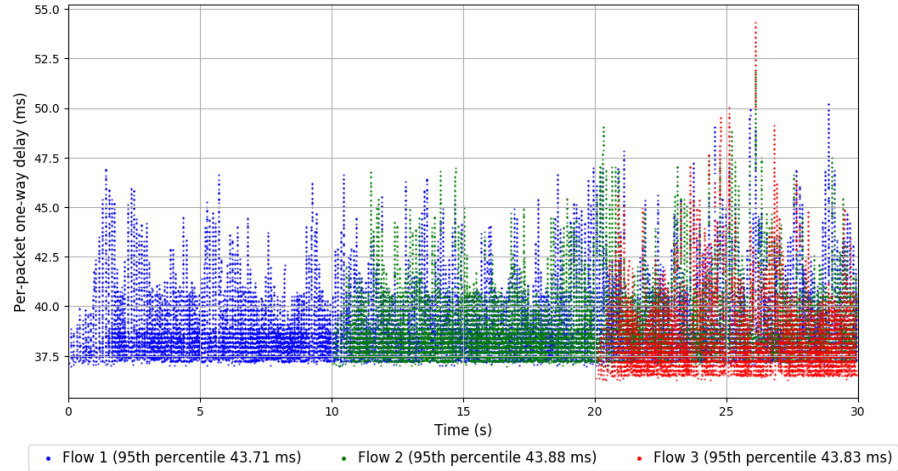
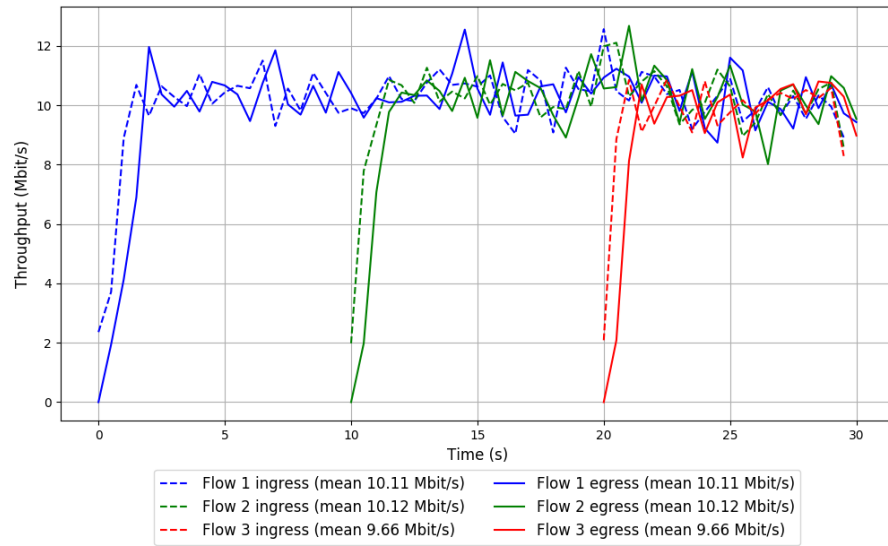
-- Flow 3:

Average throughput: 9.66 Mbit/s

95th percentile per-packet one-way delay: 43.833 ms

Loss rate: 0.00%

## Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-07-10 08:01:15

End at: 2018-07-10 08:01:45

Local clock offset: 0.201 ms

Remote clock offset: 3.018 ms

# Below is generated by plot.py at 2018-07-10 08:25:59

# Datalink statistics

-- Total of 3 flows:

Average throughput: 19.76 Mbit/s

95th percentile per-packet one-way delay: 42.261 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 10.00 Mbit/s

95th percentile per-packet one-way delay: 42.141 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 9.78 Mbit/s

95th percentile per-packet one-way delay: 42.319 ms

Loss rate: 0.00%

-- Flow 3:

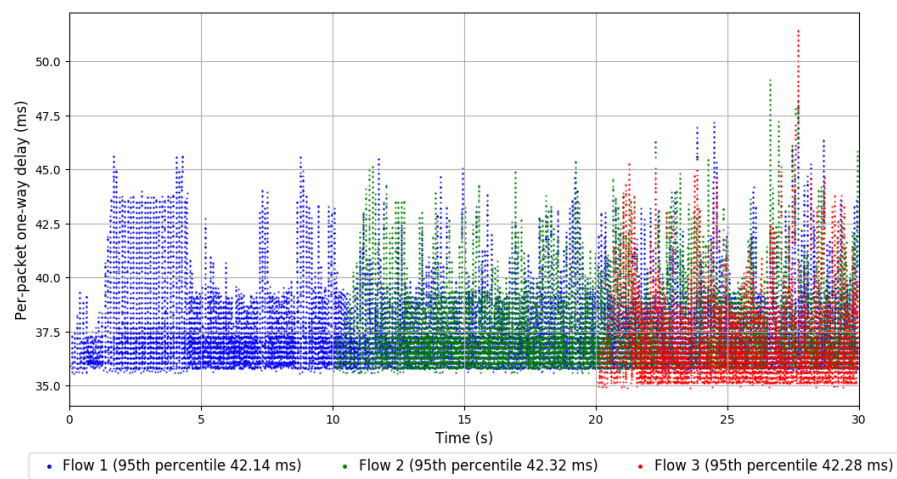
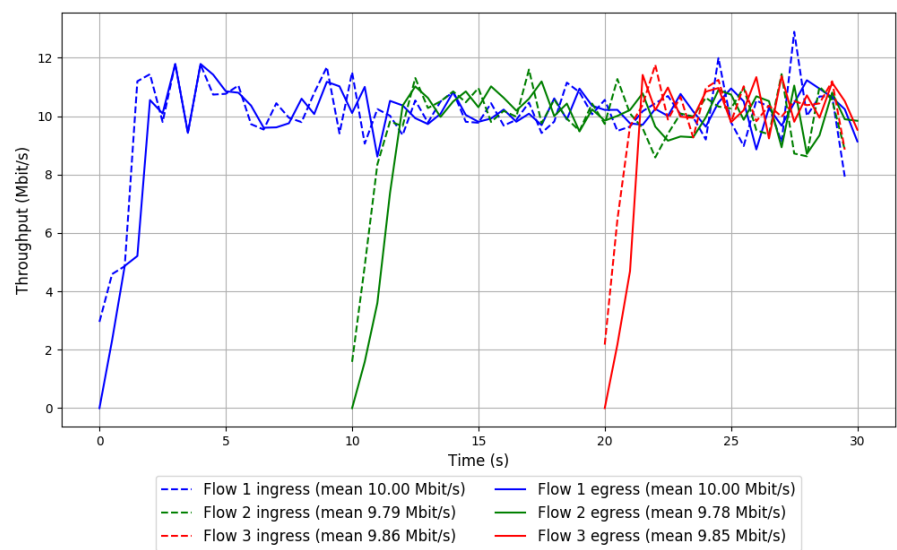
Average throughput: 9.85 Mbit/s

95th percentile per-packet one-way delay: 42.278 ms

Loss rate: 0.00%



Run 10: Report of Sprout — Data Link

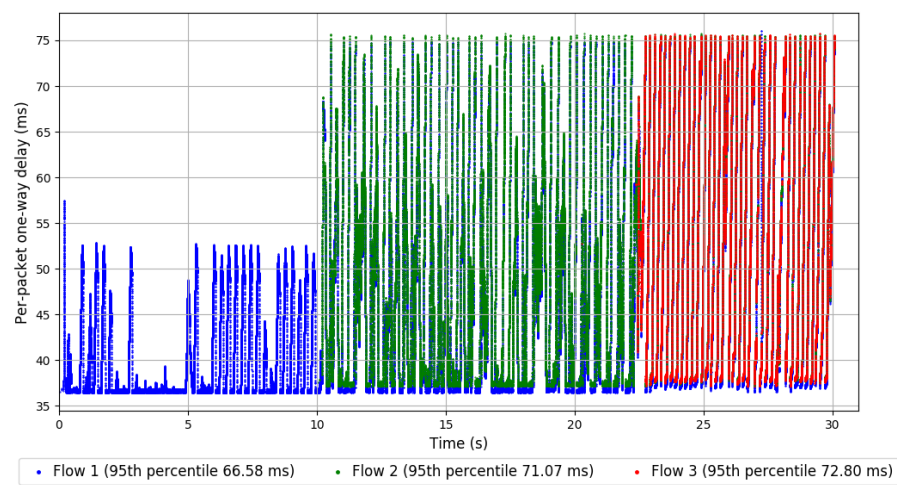
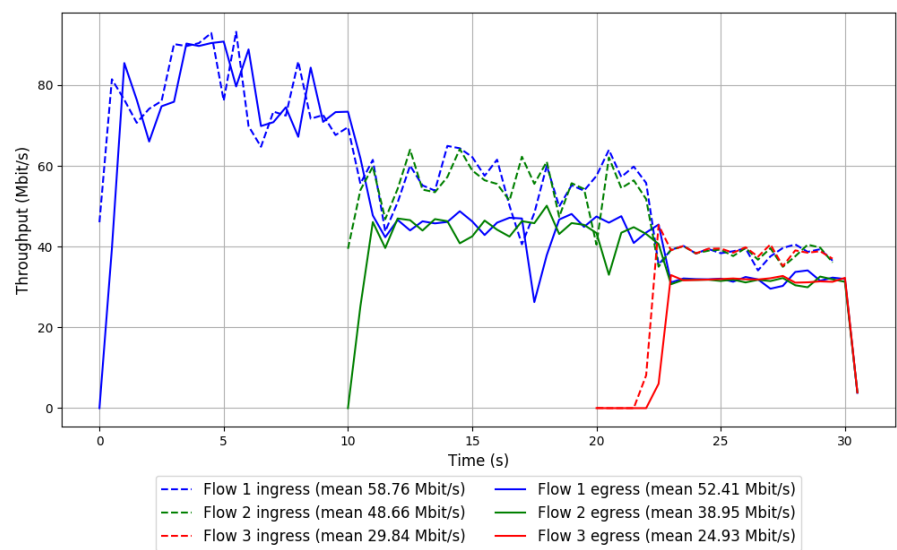


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-07-10 04:04:39
End at: 2018-07-10 04:05:09
Local clock offset: 0.533 ms
Remote clock offset: -1.481 ms

# Below is generated by plot.py at 2018-07-10 08:27:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.50 Mbit/s
95th percentile per-packet one-way delay: 69.571 ms
Loss rate: 14.34%
-- Flow 1:
Average throughput: 52.41 Mbit/s
95th percentile per-packet one-way delay: 66.584 ms
Loss rate: 10.70%
-- Flow 2:
Average throughput: 38.95 Mbit/s
95th percentile per-packet one-way delay: 71.072 ms
Loss rate: 19.83%
-- Flow 3:
Average throughput: 24.93 Mbit/s
95th percentile per-packet one-way delay: 72.797 ms
Loss rate: 17.99%
```

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



Run 2: Statistics of TaoVA-100x

Start at: 2018-07-10 04:33:09

End at: 2018-07-10 04:33:39

Local clock offset: 0.419 ms

Remote clock offset: 0.306 ms

# Below is generated by plot.py at 2018-07-10 08:27:54

# Datalink statistics

-- Total of 3 flows:

Average throughput: 86.85 Mbit/s

95th percentile per-packet one-way delay: 69.803 ms

Loss rate: 15.91%

-- Flow 1:

Average throughput: 51.02 Mbit/s

95th percentile per-packet one-way delay: 67.081 ms

Loss rate: 11.70%

-- Flow 2:

Average throughput: 37.48 Mbit/s

95th percentile per-packet one-way delay: 71.180 ms

Loss rate: 21.74%

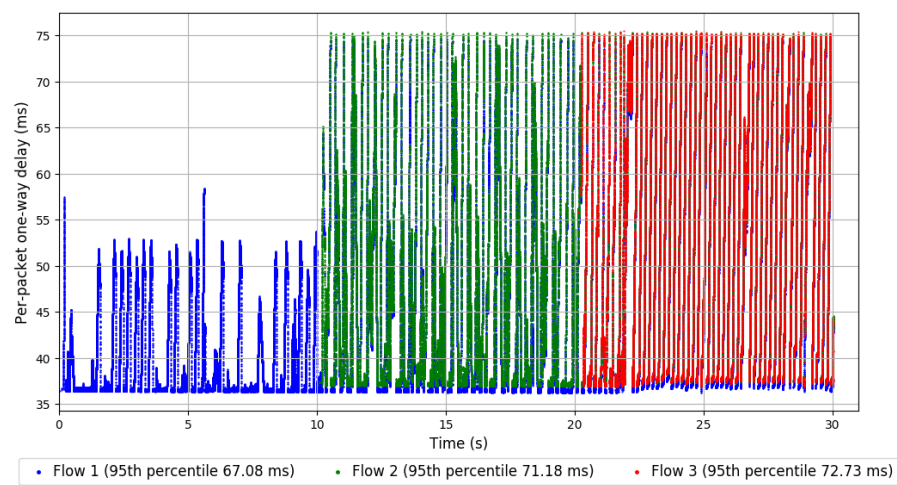
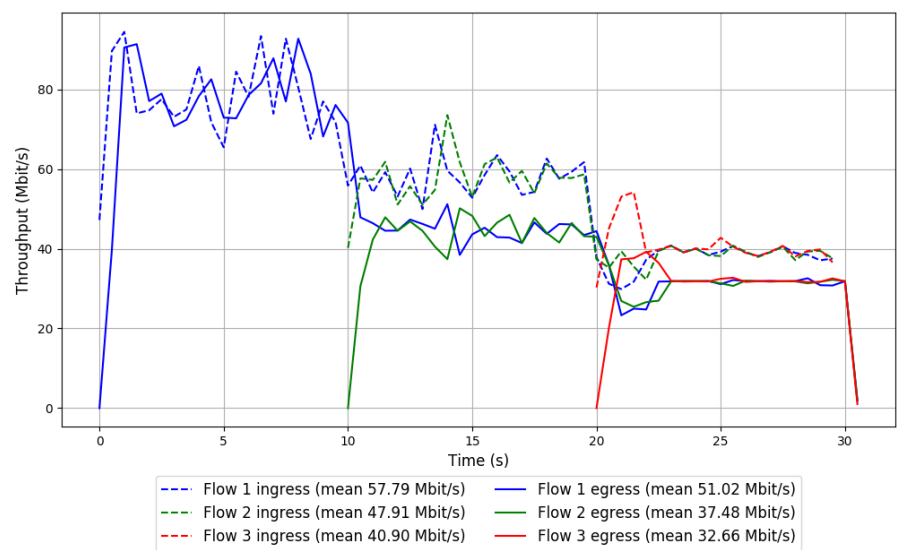
-- Flow 3:

Average throughput: 32.66 Mbit/s

95th percentile per-packet one-way delay: 72.726 ms

Loss rate: 20.16%

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



Run 3: Statistics of TaoVA-100x

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

End at: 2018-07-10 05:01:31

Local clock offset: 0.23 ms

Remote clock offset: 6.226 ms

# Below is generated by plot.py at 2018-07-10 08:27:56

# Datalink statistics

-- Total of 3 flows:

Average throughput: 87.64 Mbit/s

95th percentile per-packet one-way delay: 70.093 ms

Loss rate: 15.38%

-- Flow 1:

Average throughput: 51.36 Mbit/s

95th percentile per-packet one-way delay: 67.992 ms

Loss rate: 11.65%

-- Flow 2:

Average throughput: 38.62 Mbit/s

95th percentile per-packet one-way delay: 70.662 ms

Loss rate: 20.84%

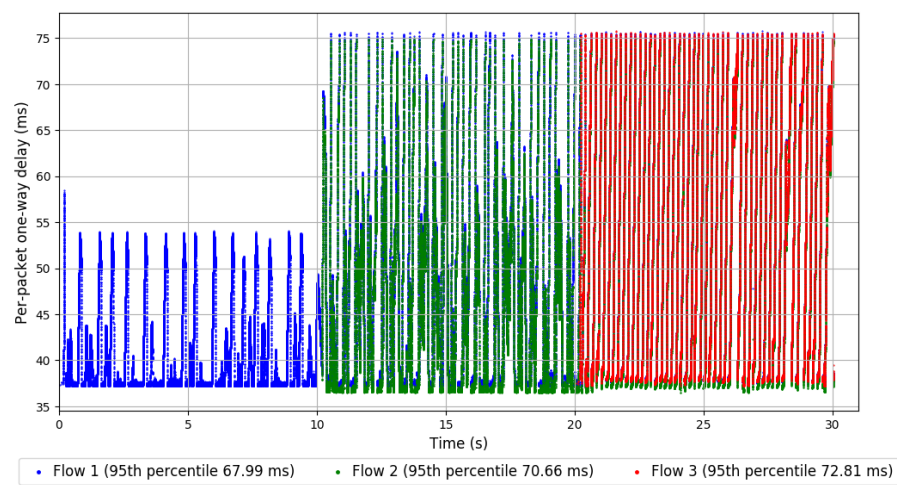
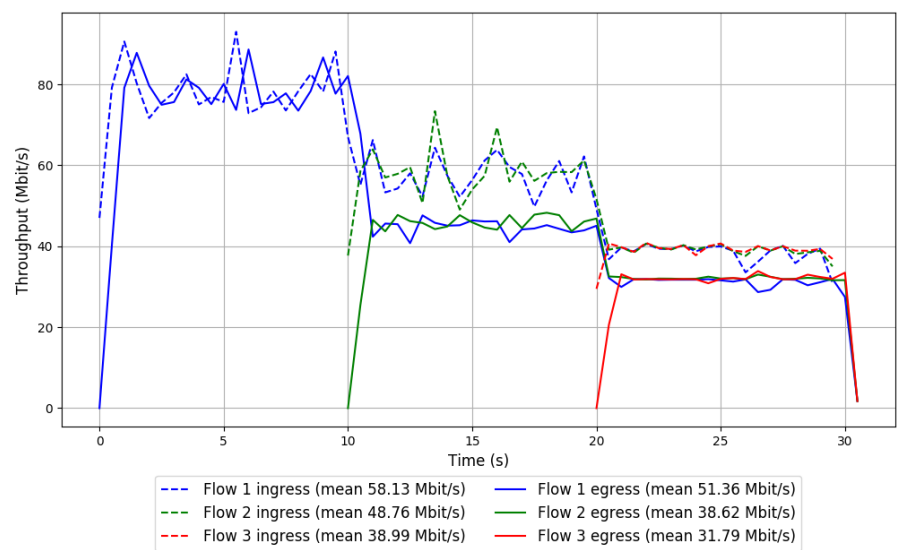
-- Flow 3:

Average throughput: 31.79 Mbit/s

95th percentile per-packet one-way delay: 72.806 ms

Loss rate: 18.45%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-07-10 05:28:57

End at: 2018-07-10 05:29:27

Local clock offset: -0.097 ms

Remote clock offset: 5.037 ms

# Below is generated by plot.py at 2018-07-10 08:27:56

# Datalink statistics

-- Total of 3 flows:

Average throughput: 85.89 Mbit/s

95th percentile per-packet one-way delay: 69.940 ms

Loss rate: 14.24%

-- Flow 1:

Average throughput: 53.10 Mbit/s

95th percentile per-packet one-way delay: 66.371 ms

Loss rate: 9.84%

-- Flow 2:

Average throughput: 33.57 Mbit/s

95th percentile per-packet one-way delay: 72.020 ms

Loss rate: 20.73%

-- Flow 3:

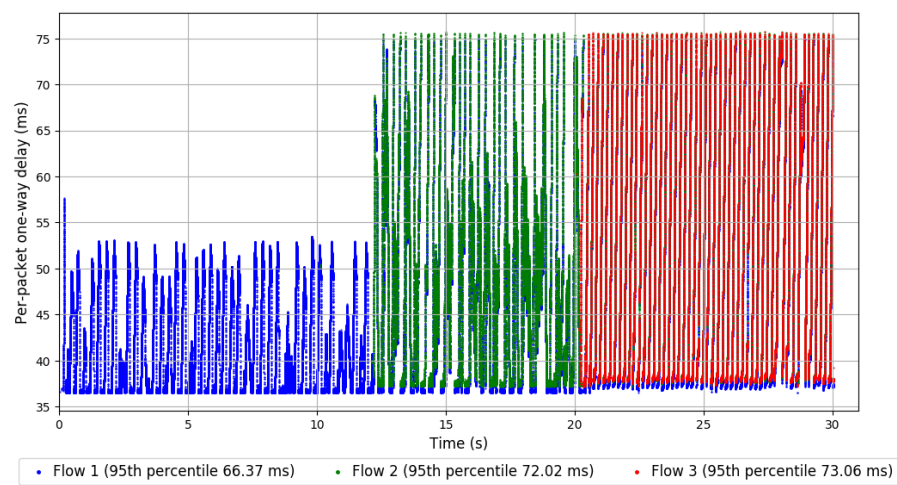
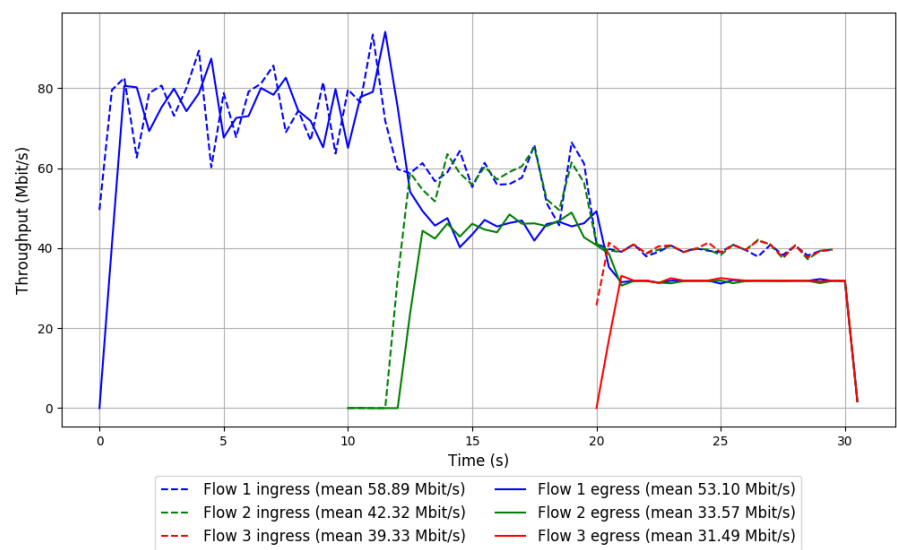
Average throughput: 31.49 Mbit/s

95th percentile per-packet one-way delay: 73.060 ms

Loss rate: 20.10%



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



Run 5: Statistics of TaoVA-100x

Start at: 2018-07-10 05:56:02

End at: 2018-07-10 05:56:32

Local clock offset: -0.318 ms

Remote clock offset: 1.423 ms

# Below is generated by plot.py at 2018-07-10 08:27:58

# Datalink statistics

-- Total of 3 flows:

Average throughput: 86.97 Mbit/s

95th percentile per-packet one-way delay: 70.164 ms

Loss rate: 15.49%

-- Flow 1:

Average throughput: 51.16 Mbit/s

95th percentile per-packet one-way delay: 67.291 ms

Loss rate: 11.60%

-- Flow 2:

Average throughput: 38.05 Mbit/s

95th percentile per-packet one-way delay: 71.850 ms

Loss rate: 20.71%

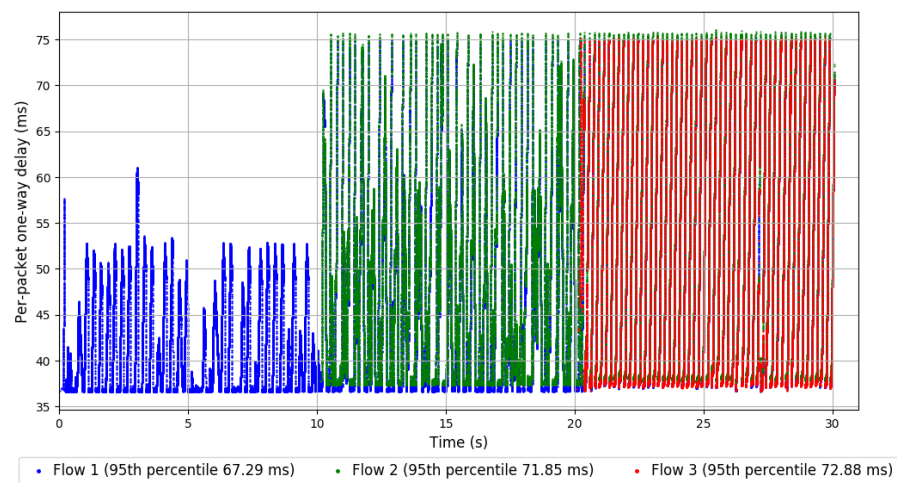
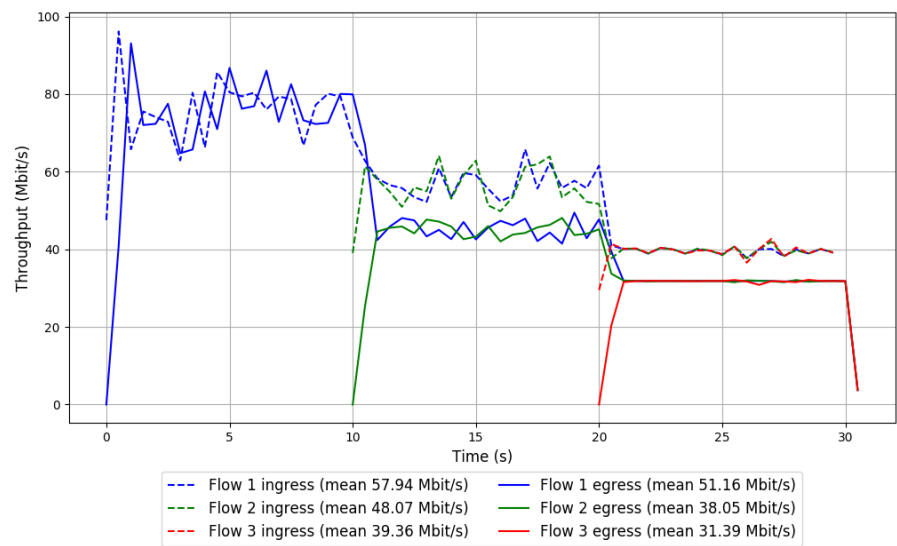
-- Flow 3:

Average throughput: 31.39 Mbit/s

95th percentile per-packet one-way delay: 72.882 ms

Loss rate: 19.98%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-07-10 06:22:31

End at: 2018-07-10 06:23:01

Local clock offset: -0.236 ms

Remote clock offset: 3.351 ms

# Below is generated by plot.py at 2018-07-10 08:28:00

# Datalink statistics

-- Total of 3 flows:

Average throughput: 86.91 Mbit/s

95th percentile per-packet one-way delay: 71.099 ms

Loss rate: 15.55%

-- Flow 1:

Average throughput: 51.03 Mbit/s

95th percentile per-packet one-way delay: 69.071 ms

Loss rate: 11.53%

-- Flow 2:

Average throughput: 38.32 Mbit/s

95th percentile per-packet one-way delay: 71.368 ms

Loss rate: 21.09%

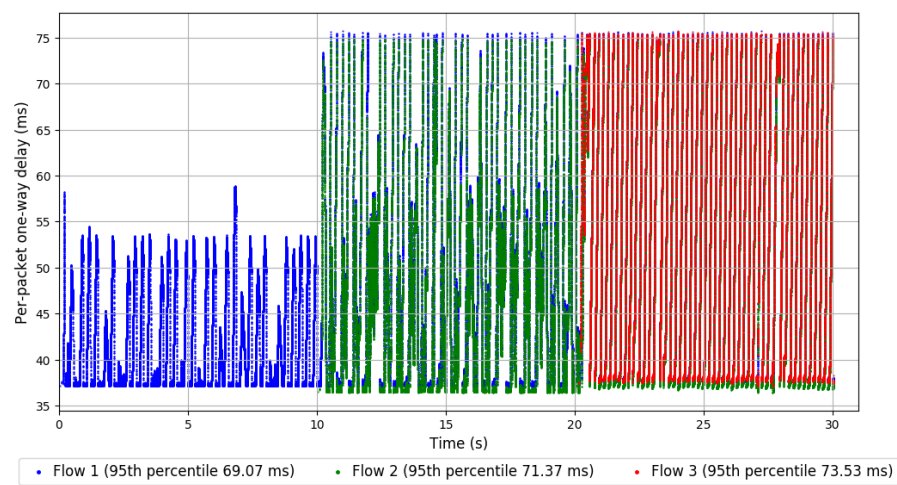
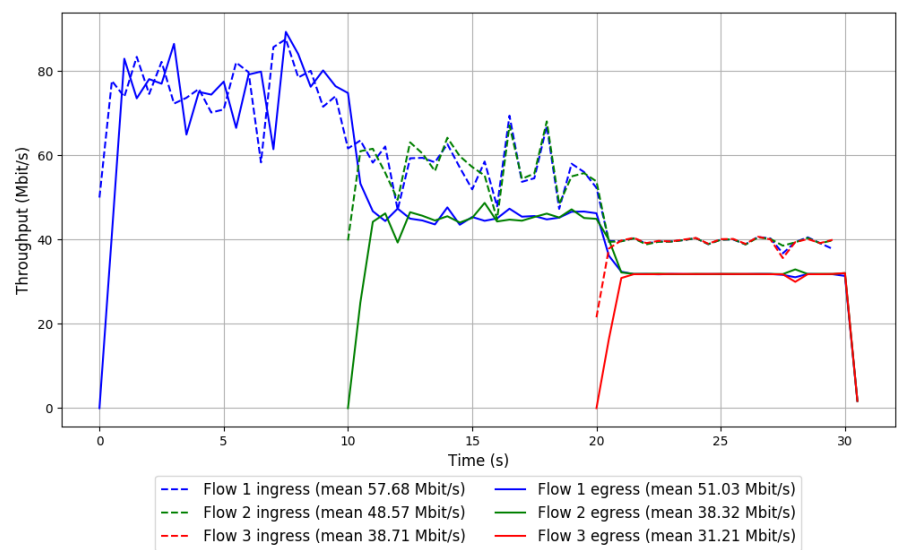
-- Flow 3:

Average throughput: 31.21 Mbit/s

95th percentile per-packet one-way delay: 73.530 ms

Loss rate: 19.66%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-07-10 06:47:58

End at: 2018-07-10 06:48:28

Local clock offset: 0.096 ms

Remote clock offset: 4.926 ms

# Below is generated by plot.py at 2018-07-10 08:28:05

# Datalink statistics

-- Total of 3 flows:

Average throughput: 86.05 Mbit/s

95th percentile per-packet one-way delay: 70.457 ms

Loss rate: 16.86%

-- Flow 1:

Average throughput: 50.13 Mbit/s

95th percentile per-packet one-way delay: 66.911 ms

Loss rate: 12.75%

-- Flow 2:

Average throughput: 38.05 Mbit/s

95th percentile per-packet one-way delay: 71.895 ms

Loss rate: 22.95%

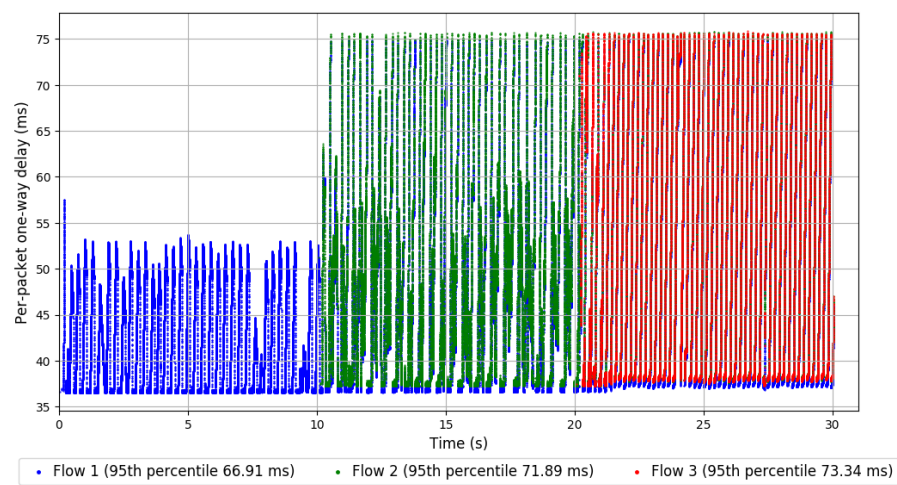
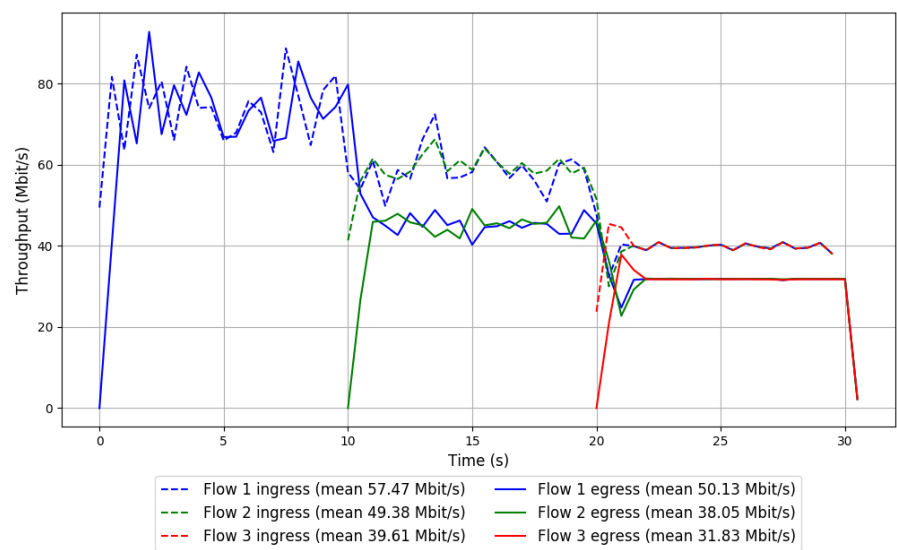
-- Flow 3:

Average throughput: 31.83 Mbit/s

95th percentile per-packet one-way delay: 73.339 ms

Loss rate: 19.58%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-07-10 07:12:34

End at: 2018-07-10 07:13:04

Local clock offset: 0.222 ms

Remote clock offset: 3.899 ms

# Below is generated by plot.py at 2018-07-10 08:28:09

# Datalink statistics

-- Total of 3 flows:

Average throughput: 87.55 Mbit/s

95th percentile per-packet one-way delay: 70.295 ms

Loss rate: 16.27%

-- Flow 1:

Average throughput: 51.65 Mbit/s

95th percentile per-packet one-way delay: 68.024 ms

Loss rate: 12.42%

-- Flow 2:

Average throughput: 38.61 Mbit/s

95th percentile per-packet one-way delay: 71.465 ms

Loss rate: 21.66%

-- Flow 3:

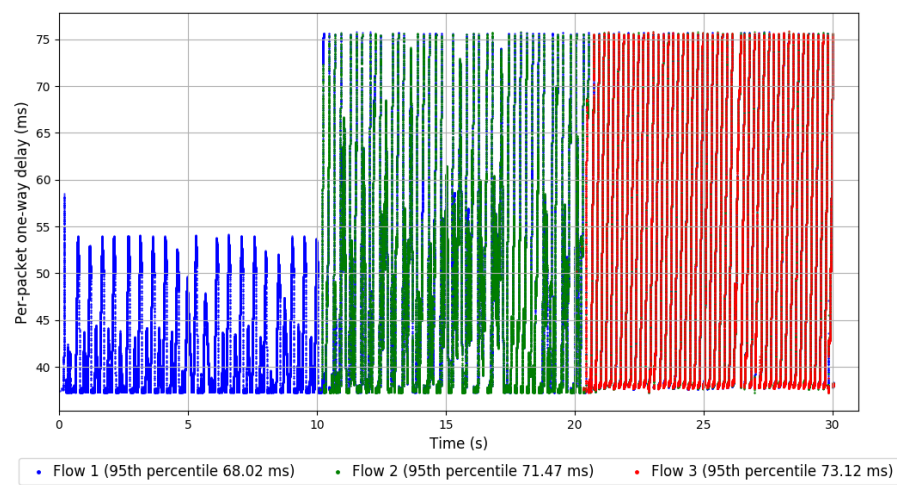
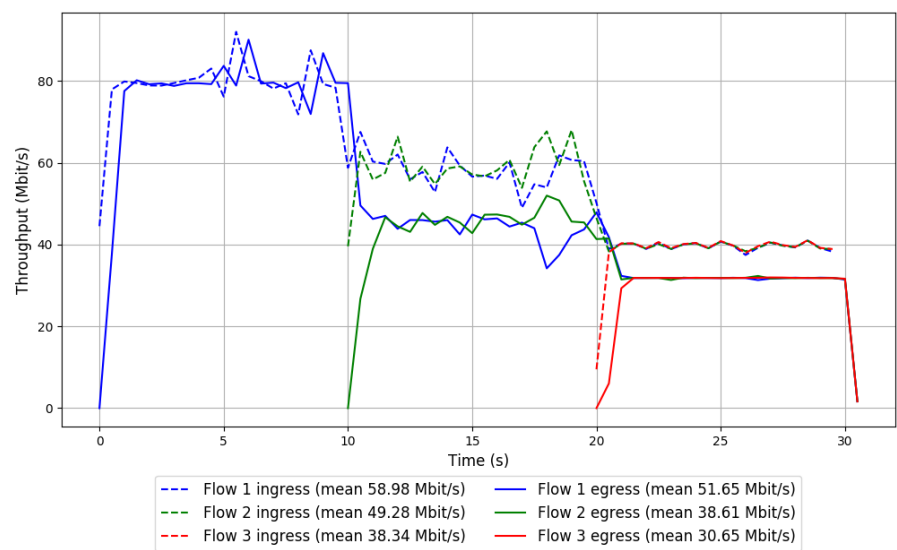
Average throughput: 30.65 Mbit/s

95th percentile per-packet one-way delay: 73.125 ms

Loss rate: 20.15%



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



Run 9: Statistics of TaoVA-100x

Start at: 2018-07-10 07:38:03

End at: 2018-07-10 07:38:33

Local clock offset: 0.197 ms

Remote clock offset: 4.087 ms

# Below is generated by plot.py at 2018-07-10 08:30:04

# Datalink statistics

-- Total of 3 flows:

Average throughput: 86.28 Mbit/s

95th percentile per-packet one-way delay: 70.476 ms

Loss rate: 16.26%

-- Flow 1:

Average throughput: 50.62 Mbit/s

95th percentile per-packet one-way delay: 67.458 ms

Loss rate: 12.22%

-- Flow 2:

Average throughput: 37.86 Mbit/s

95th percentile per-packet one-way delay: 71.798 ms

Loss rate: 22.06%

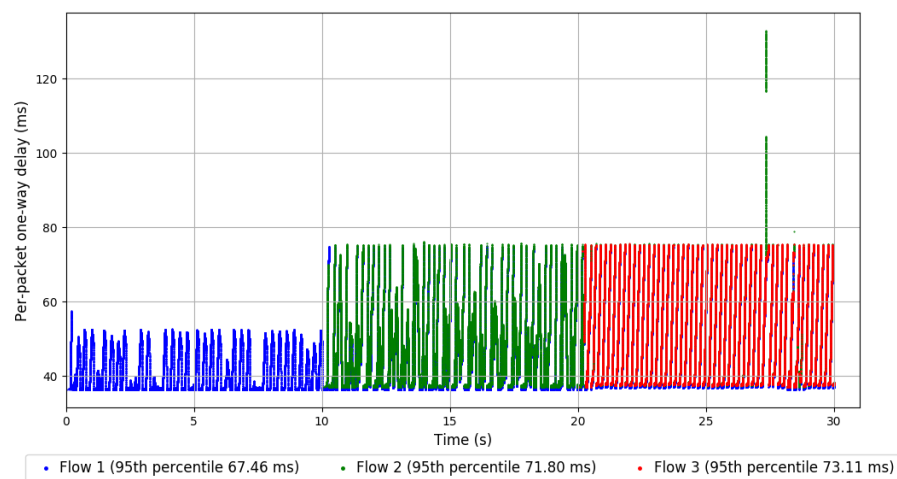
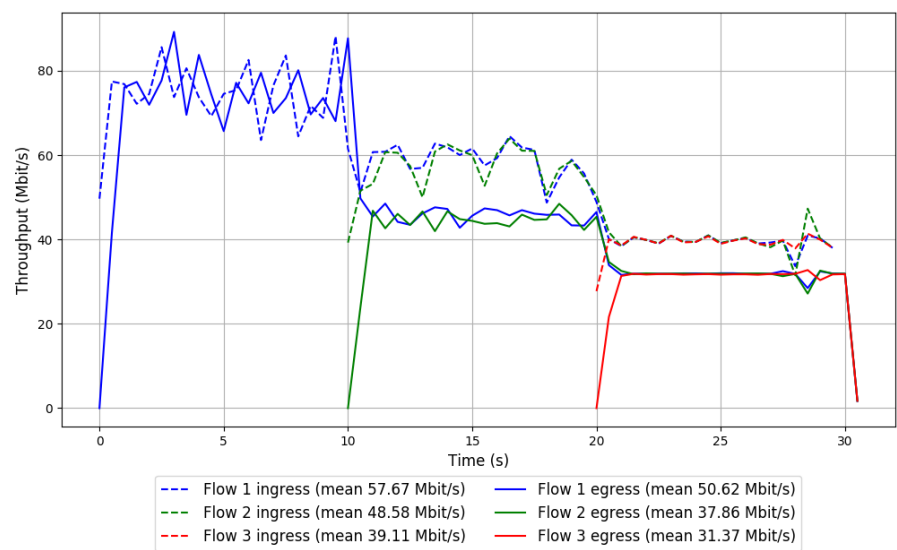
-- Flow 3:

Average throughput: 31.37 Mbit/s

95th percentile per-packet one-way delay: 73.105 ms

Loss rate: 19.77%

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



Run 10: Statistics of TaoVA-100x

Start at: 2018-07-10 08:04:05

End at: 2018-07-10 08:04:35

Local clock offset: 0.224 ms

Remote clock offset: 3.044 ms

# Below is generated by plot.py at 2018-07-10 08:30:10

# Datalink statistics

-- Total of 3 flows:

Average throughput: 87.59 Mbit/s

95th percentile per-packet one-way delay: 68.024 ms

Loss rate: 16.72%

-- Flow 1:

Average throughput: 53.03 Mbit/s

95th percentile per-packet one-way delay: 65.624 ms

Loss rate: 12.92%

-- Flow 2:

Average throughput: 39.34 Mbit/s

95th percentile per-packet one-way delay: 68.875 ms

Loss rate: 22.79%

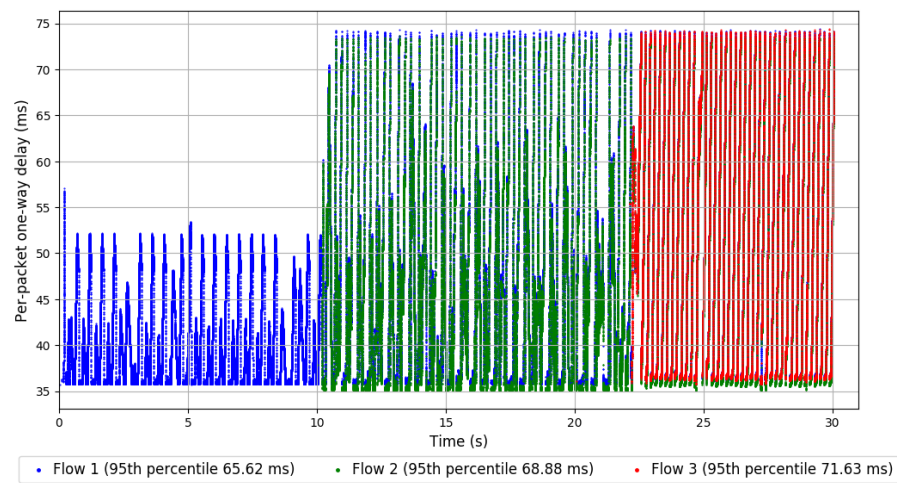
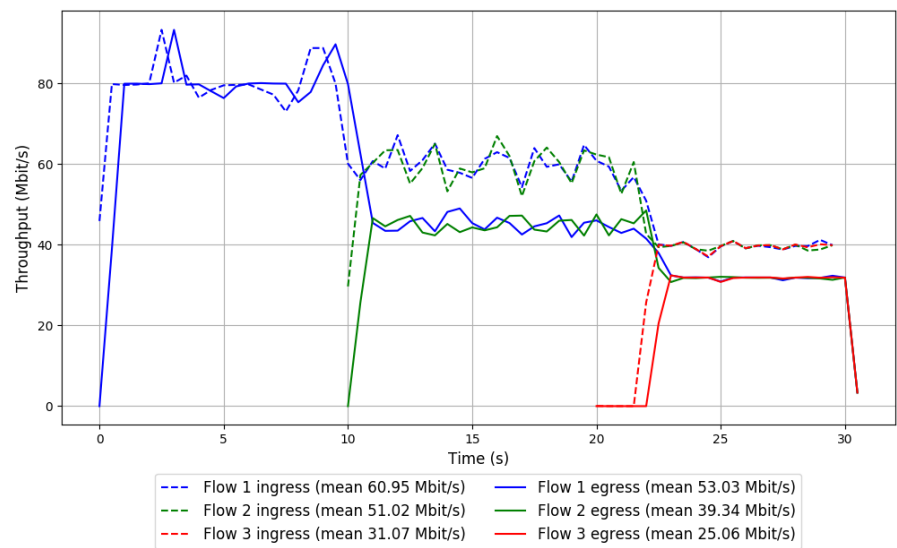
-- Flow 3:

Average throughput: 25.06 Mbit/s

95th percentile per-packet one-way delay: 71.626 ms

Loss rate: 19.15%

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

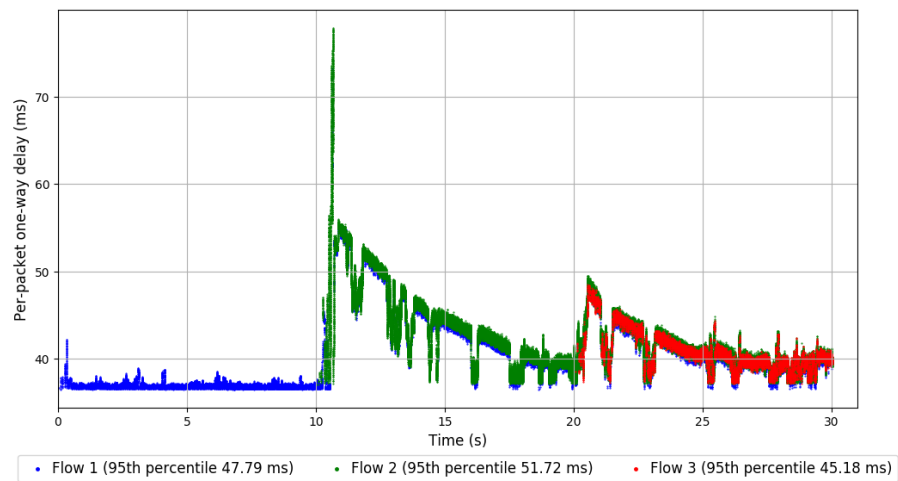
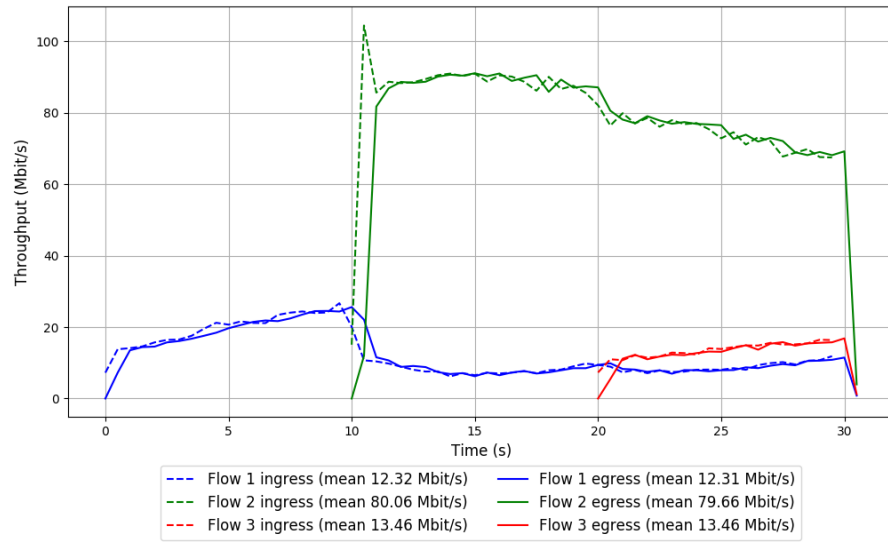


Run 1: Statistics of TCP Vegas

Start at: 2018-07-10 03:59:55  
End at: 2018-07-10 04:00:25  
Local clock offset: 0.585 ms  
Remote clock offset: -1.184 ms

# Below is generated by plot.py at 2018-07-10 08:30:10  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 69.86 Mbit/s  
95th percentile per-packet one-way delay: 51.300 ms  
Loss rate: 0.38%  
-- Flow 1:  
Average throughput: 12.31 Mbit/s  
95th percentile per-packet one-way delay: 47.789 ms  
Loss rate: 0.03%  
-- Flow 2:  
Average throughput: 79.66 Mbit/s  
95th percentile per-packet one-way delay: 51.722 ms  
Loss rate: 0.49%  
-- Flow 3:  
Average throughput: 13.46 Mbit/s  
95th percentile per-packet one-way delay: 45.177 ms  
Loss rate: 0.00%

# Run 1: Report of TCP Vegas — Data Link



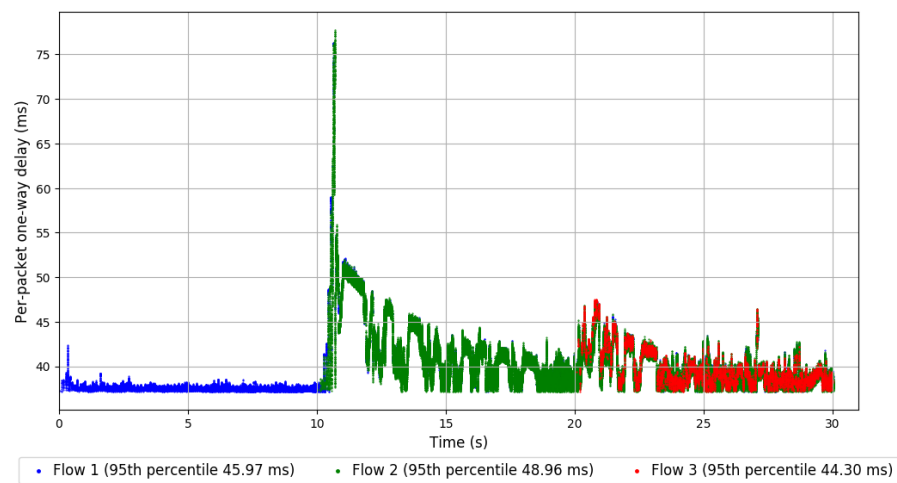
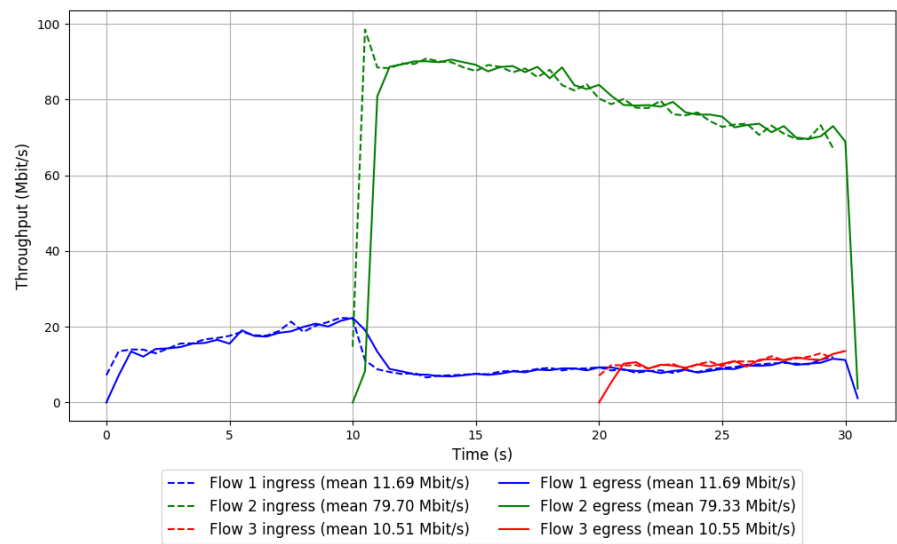
Run 2: Statistics of TCP Vegas

Start at: 2018-07-10 04:28:29  
End at: 2018-07-10 04:28:59  
Local clock offset: 0.448 ms  
Remote clock offset: -2.288 ms

# Below is generated by plot.py at 2018-07-10 08:30:10  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 68.03 Mbit/s  
95th percentile per-packet one-way delay: 48.482 ms  
Loss rate: 0.37%  
-- Flow 1:  
Average throughput: 11.69 Mbit/s  
95th percentile per-packet one-way delay: 45.971 ms  
Loss rate: 0.05%  
-- Flow 2:  
Average throughput: 79.33 Mbit/s  
95th percentile per-packet one-way delay: 48.956 ms  
Loss rate: 0.46%  
-- Flow 3:  
Average throughput: 10.55 Mbit/s  
95th percentile per-packet one-way delay: 44.298 ms  
Loss rate: 0.01%



Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-07-10 04:56:13

End at: 2018-07-10 04:56:43

Local clock offset: 0.362 ms

Remote clock offset: 5.786 ms

# Below is generated by plot.py at 2018-07-10 08:30:10

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.09 Mbit/s

95th percentile per-packet one-way delay: 51.775 ms

Loss rate: 0.28%

-- Flow 1:

Average throughput: 80.83 Mbit/s

95th percentile per-packet one-way delay: 50.355 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 12.67 Mbit/s

95th percentile per-packet one-way delay: 53.388 ms

Loss rate: 0.00%

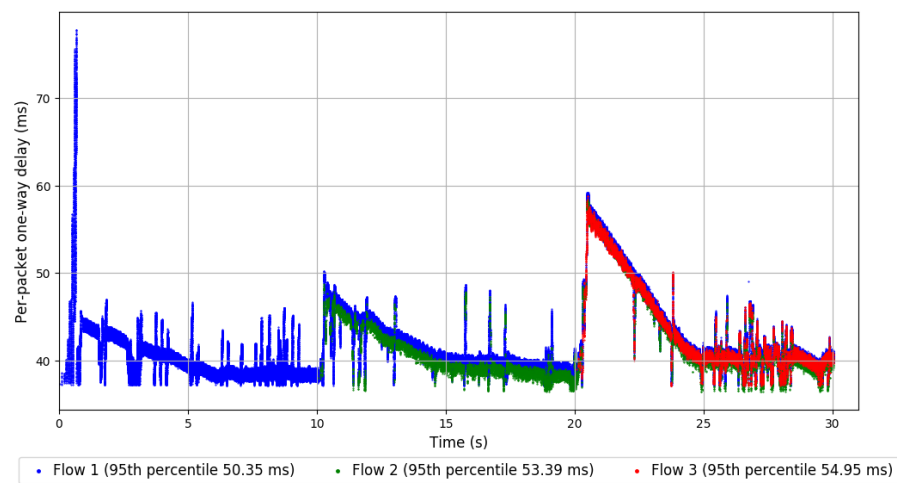
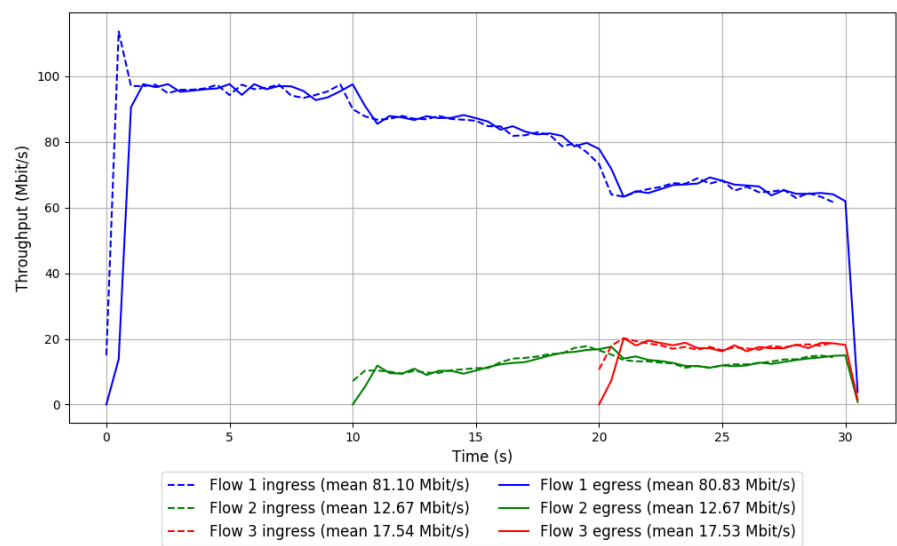
-- Flow 3:

Average throughput: 17.53 Mbit/s

95th percentile per-packet one-way delay: 54.954 ms

Loss rate: 0.02%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-07-10 05:24:16

End at: 2018-07-10 05:24:46

Local clock offset: -0.042 ms

Remote clock offset: 5.041 ms

# Below is generated by plot.py at 2018-07-10 08:30:10

# Datalink statistics

-- Total of 3 flows:

Average throughput: 94.76 Mbit/s

95th percentile per-packet one-way delay: 44.261 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 82.15 Mbit/s

95th percentile per-packet one-way delay: 44.275 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 13.70 Mbit/s

95th percentile per-packet one-way delay: 44.513 ms

Loss rate: 0.00%

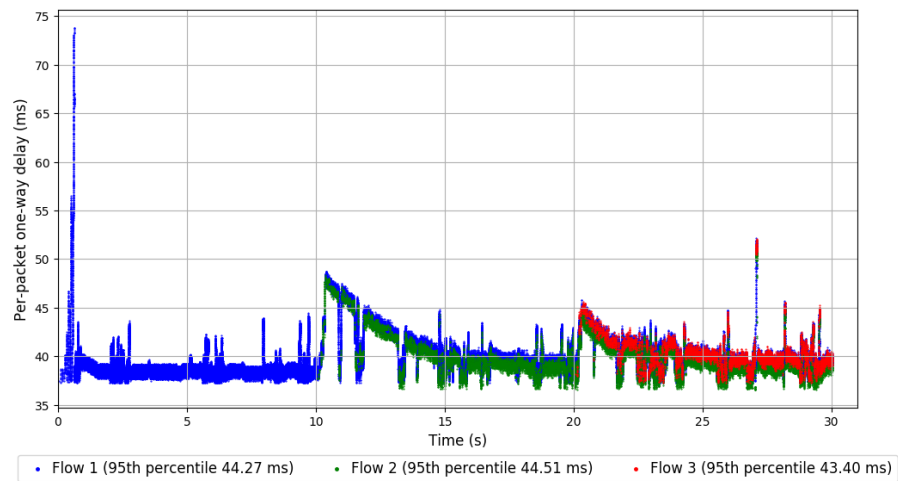
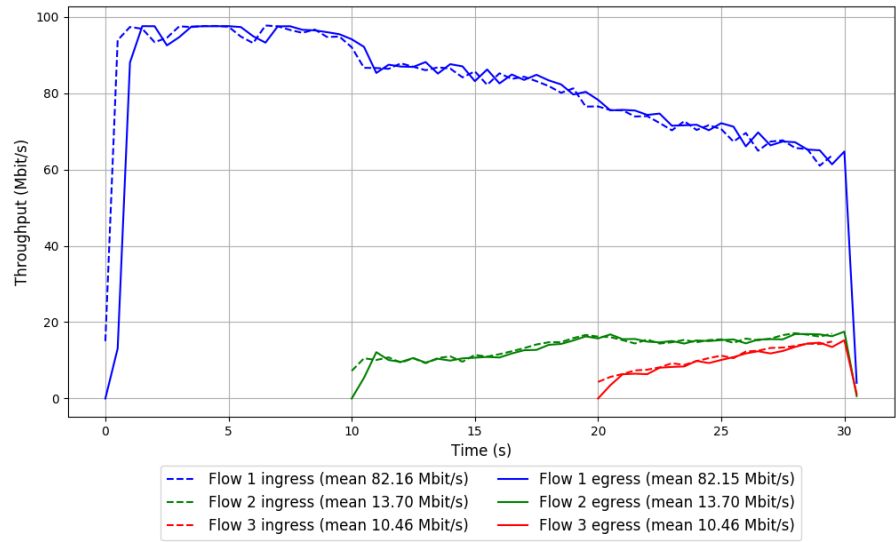
-- Flow 3:

Average throughput: 10.46 Mbit/s

95th percentile per-packet one-way delay: 43.398 ms

Loss rate: 0.01%

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



Run 5: Statistics of TCP Vegas

Start at: 2018-07-10 05:51:36

End at: 2018-07-10 05:52:06

Local clock offset: -0.291 ms

Remote clock offset: 1.803 ms

# Below is generated by plot.py at 2018-07-10 08:30:10

# Datalink statistics

-- Total of 3 flows:

Average throughput: 62.89 Mbit/s

95th percentile per-packet one-way delay: 46.804 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 27.27 Mbit/s

95th percentile per-packet one-way delay: 44.472 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 46.02 Mbit/s

95th percentile per-packet one-way delay: 48.243 ms

Loss rate: 0.05%

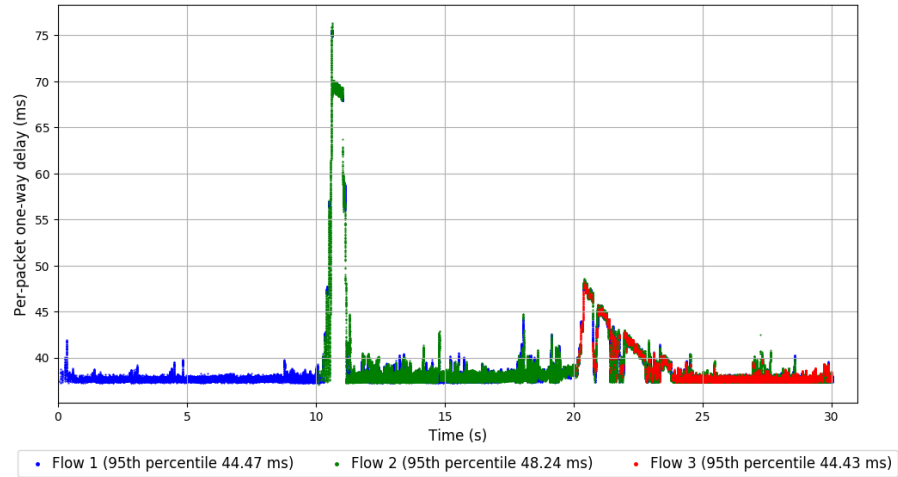
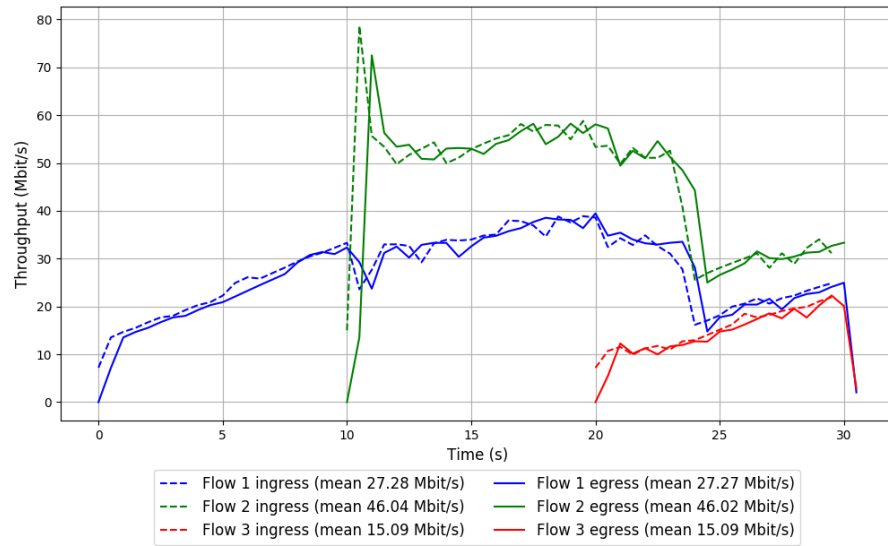
-- Flow 3:

Average throughput: 15.09 Mbit/s

95th percentile per-packet one-way delay: 44.433 ms

Loss rate: 0.00%

# Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-07-10 06:18:07

End at: 2018-07-10 06:18:37

Local clock offset: -0.193 ms

Remote clock offset: 2.603 ms

# Below is generated by plot.py at 2018-07-10 08:30:10

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.38 Mbit/s

95th percentile per-packet one-way delay: 46.017 ms

Loss rate: 0.27%

-- Flow 1:

Average throughput: 81.76 Mbit/s

95th percentile per-packet one-way delay: 46.005 ms

Loss rate: 0.32%

-- Flow 2:

Average throughput: 14.11 Mbit/s

95th percentile per-packet one-way delay: 45.985 ms

Loss rate: 0.01%

-- Flow 3:

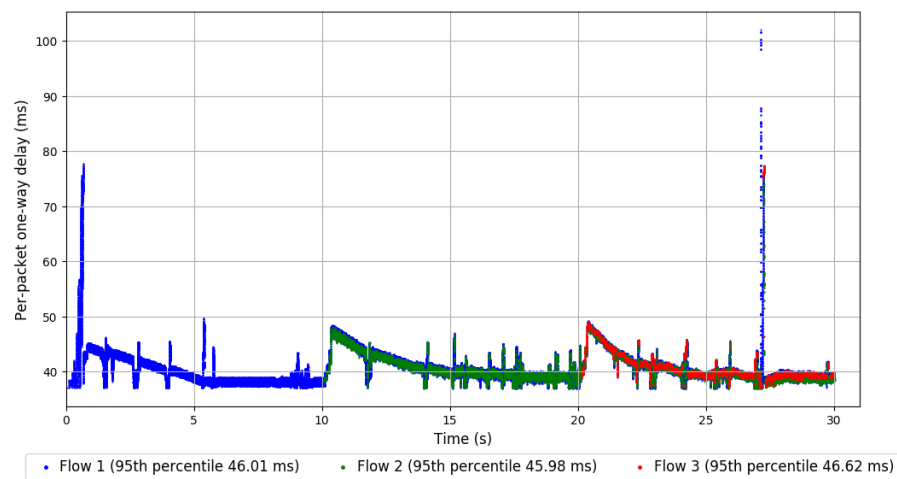
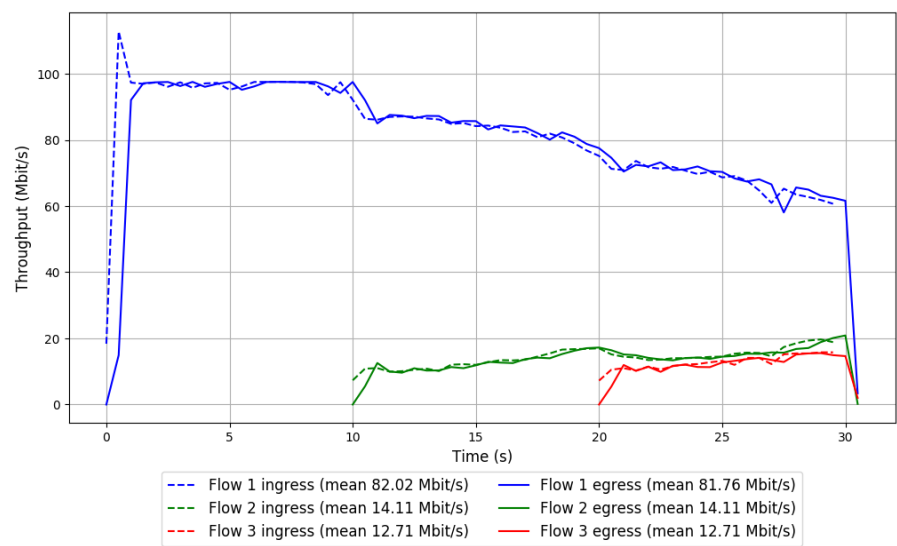
Average throughput: 12.71 Mbit/s

95th percentile per-packet one-way delay: 46.621 ms

Loss rate: 0.00%



Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-07-10 06:43:46

End at: 2018-07-10 06:44:16

Local clock offset: -0.049 ms

Remote clock offset: 5.3 ms

# Below is generated by plot.py at 2018-07-10 08:30:10

# Datalink statistics

-- Total of 3 flows:

Average throughput: 83.30 Mbit/s

95th percentile per-packet one-way delay: 52.025 ms

Loss rate: 0.34%

-- Flow 1:

Average throughput: 51.90 Mbit/s

95th percentile per-packet one-way delay: 51.902 ms

Loss rate: 0.54%

-- Flow 2:

Average throughput: 38.96 Mbit/s

95th percentile per-packet one-way delay: 52.664 ms

Loss rate: 0.00%

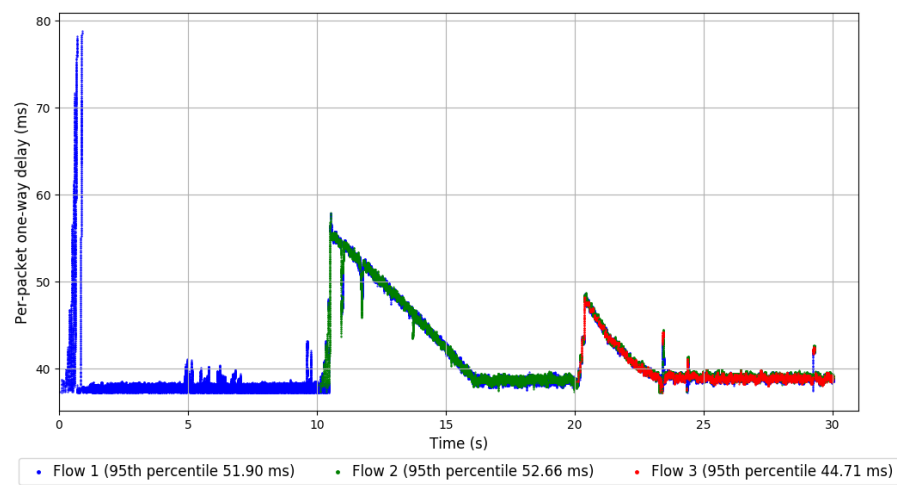
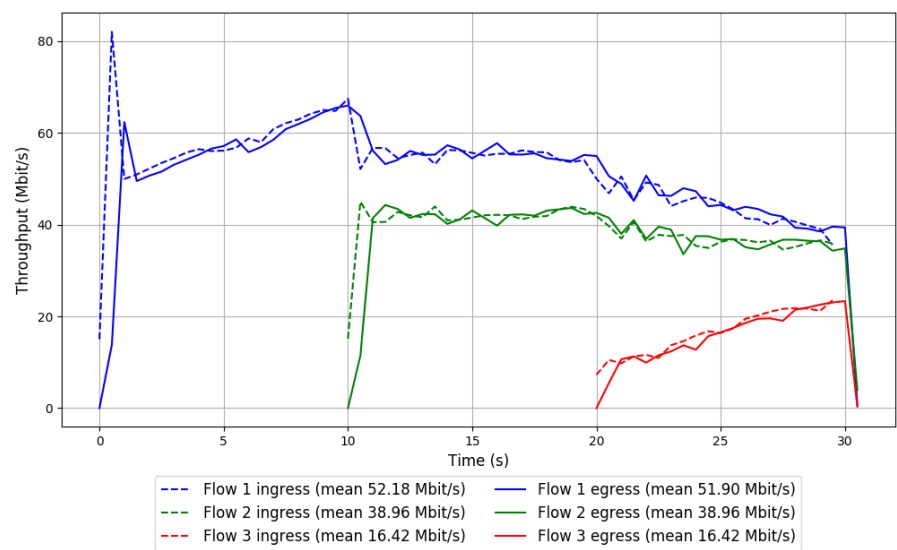
-- Flow 3:

Average throughput: 16.42 Mbit/s

95th percentile per-packet one-way delay: 44.706 ms

Loss rate: 0.00%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-07-10 07:08:25

End at: 2018-07-10 07:08:55

Local clock offset: 0.205 ms

Remote clock offset: 3.719 ms

# Below is generated by plot.py at 2018-07-10 08:30:10

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.75 Mbit/s

95th percentile per-packet one-way delay: 54.211 ms

Loss rate: 0.27%

-- Flow 1:

Average throughput: 78.84 Mbit/s

95th percentile per-packet one-way delay: 53.821 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 16.62 Mbit/s

95th percentile per-packet one-way delay: 54.844 ms

Loss rate: 0.00%

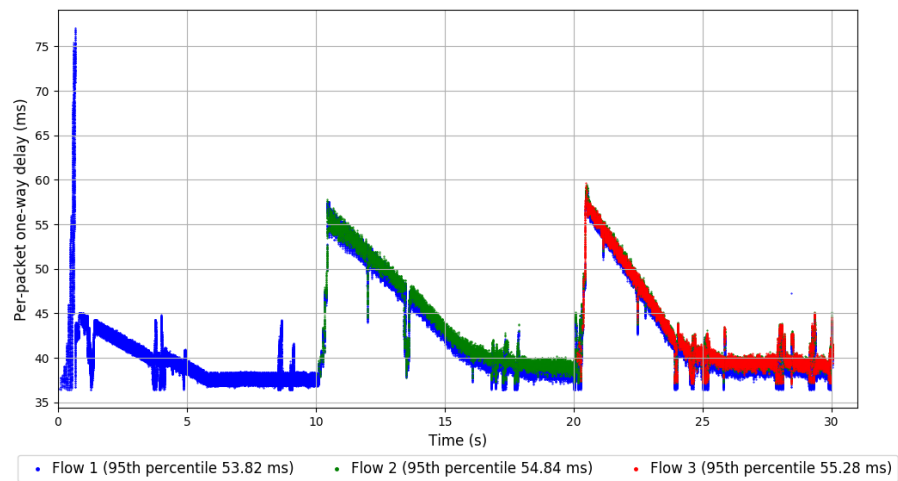
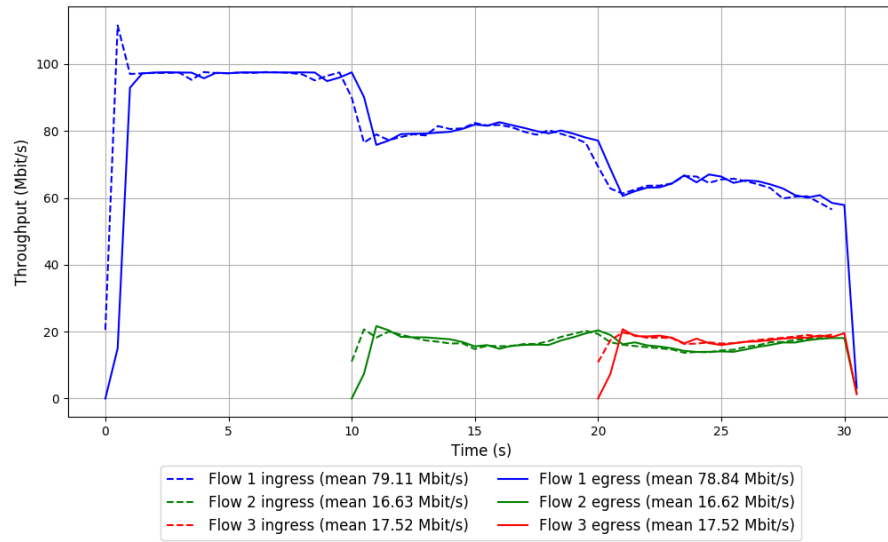
-- Flow 3:

Average throughput: 17.52 Mbit/s

95th percentile per-packet one-way delay: 55.281 ms

Loss rate: 0.00%

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



Run 9: Statistics of TCP Vegas

Start at: 2018-07-10 07:33:45

End at: 2018-07-10 07:34:15

Local clock offset: 0.191 ms

Remote clock offset: 4.199 ms

# Below is generated by plot.py at 2018-07-10 08:30:10

# Datalink statistics

-- Total of 3 flows:

Average throughput: 68.21 Mbit/s

95th percentile per-packet one-way delay: 65.624 ms

Loss rate: 0.60%

-- Flow 1:

Average throughput: 5.90 Mbit/s

95th percentile per-packet one-way delay: 62.188 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 89.25 Mbit/s

95th percentile per-packet one-way delay: 65.832 ms

Loss rate: 0.68%

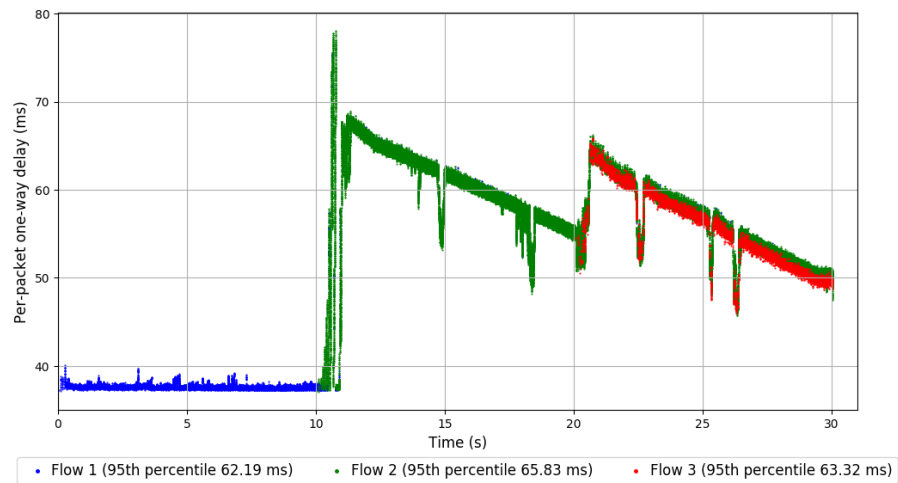
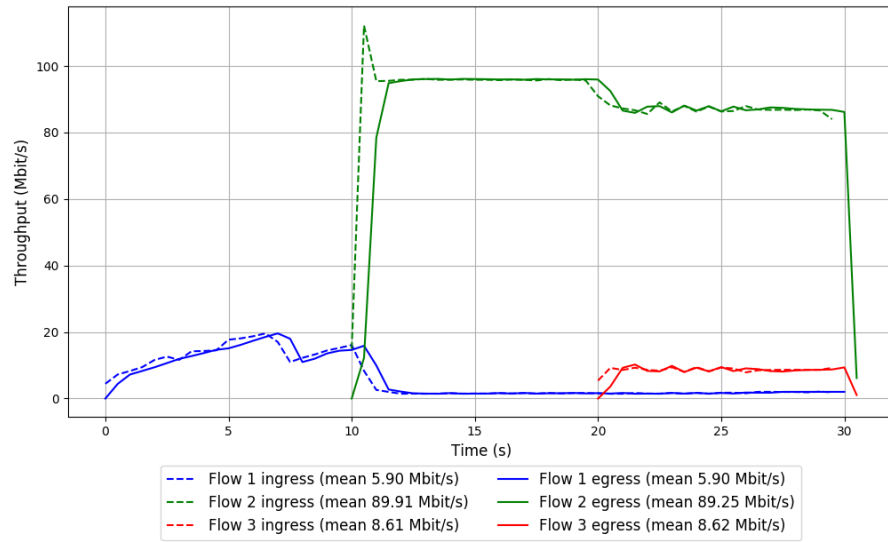
-- Flow 3:

Average throughput: 8.62 Mbit/s

95th percentile per-packet one-way delay: 63.323 ms

Loss rate: 0.00%

# Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-07-10 07:59:46

End at: 2018-07-10 08:00:16

Local clock offset: 0.18 ms

Remote clock offset: 3.072 ms

# Below is generated by plot.py at 2018-07-10 08:30:28

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.45 Mbit/s

95th percentile per-packet one-way delay: 49.365 ms

Loss rate: 0.27%

-- Flow 1:

Average throughput: 80.47 Mbit/s

95th percentile per-packet one-way delay: 47.674 ms

Loss rate: 0.32%

-- Flow 2:

Average throughput: 13.17 Mbit/s

95th percentile per-packet one-way delay: 51.720 ms

Loss rate: 0.00%

-- Flow 3:

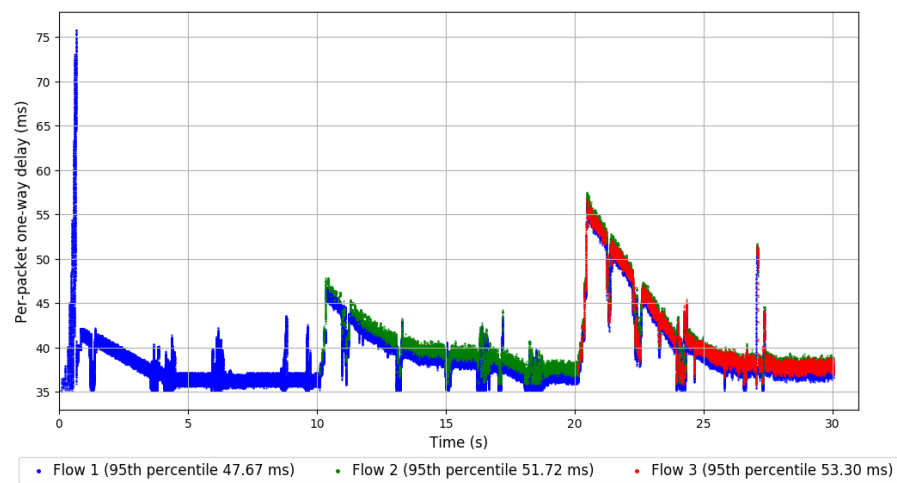
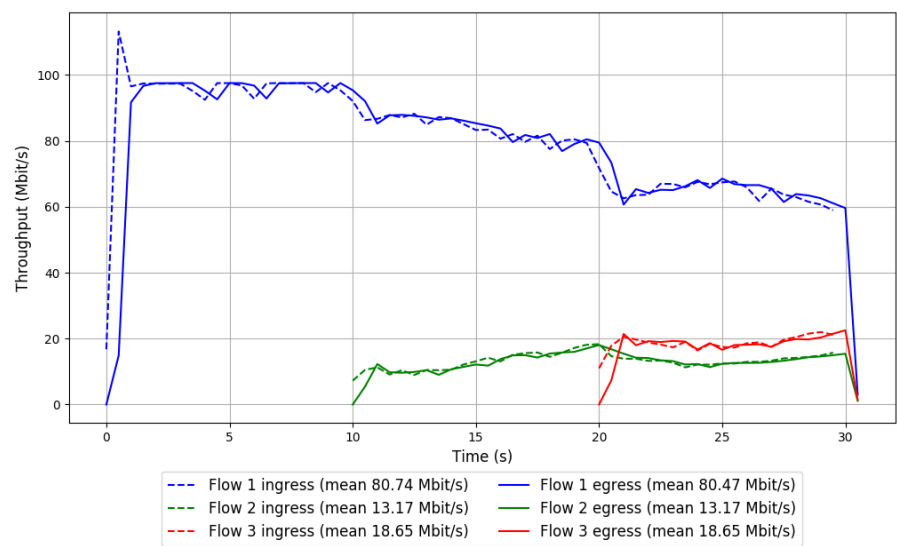
Average throughput: 18.65 Mbit/s

95th percentile per-packet one-way delay: 53.304 ms

Loss rate: 0.00%



Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-07-10 03:56:44

End at: 2018-07-10 03:57:14

Local clock offset: 0.497 ms

Remote clock offset: -1.05 ms

# Below is generated by plot.py at 2018-07-10 08:30:28

# Datalink statistics

-- Total of 3 flows:

Average throughput: 59.15 Mbit/s

95th percentile per-packet one-way delay: 73.273 ms

Loss rate: 36.18%

-- Flow 1:

Average throughput: 35.16 Mbit/s

95th percentile per-packet one-way delay: 72.821 ms

Loss rate: 33.80%

-- Flow 2:

Average throughput: 30.66 Mbit/s

95th percentile per-packet one-way delay: 74.254 ms

Loss rate: 41.37%

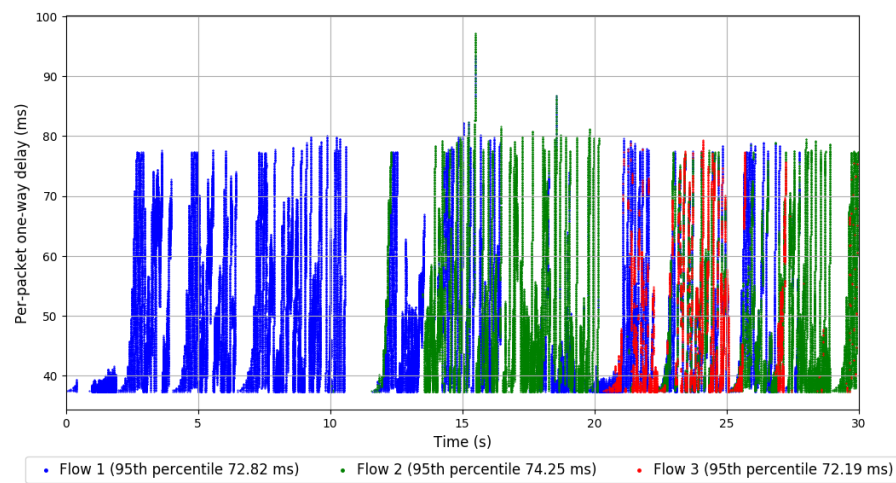
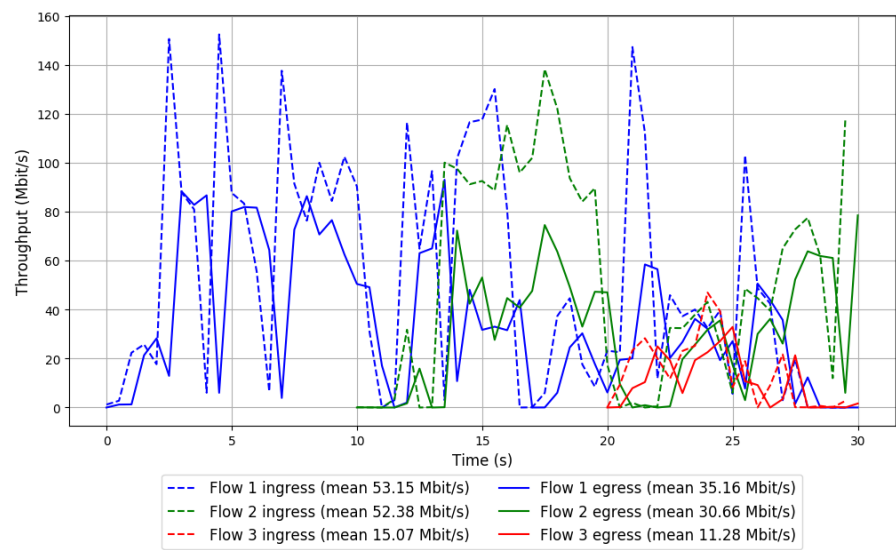
-- Flow 3:

Average throughput: 11.28 Mbit/s

95th percentile per-packet one-way delay: 72.190 ms

Loss rate: 24.88%

Run 1: Report of Verus — Data Link

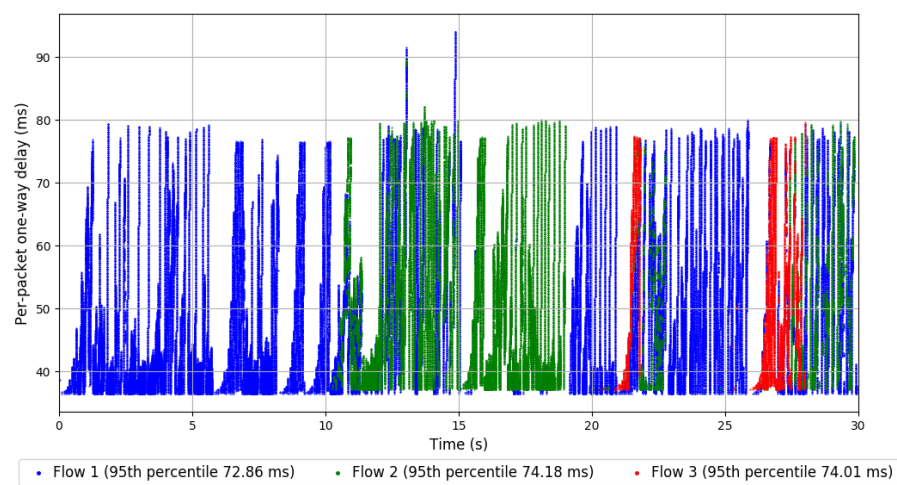
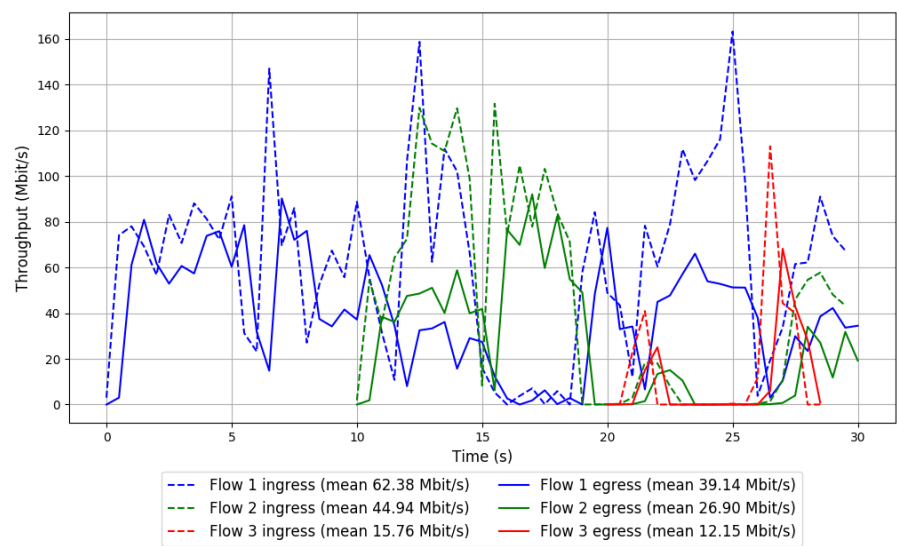


Run 2: Statistics of Verus

Start at: 2018-07-10 04:25:11  
End at: 2018-07-10 04:25:41  
Local clock offset: 0.457 ms  
Remote clock offset: -2.157 ms

# Below is generated by plot.py at 2018-07-10 08:30:28  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 60.06 Mbit/s  
95th percentile per-packet one-way delay: 73.352 ms  
Loss rate: 37.89%  
-- Flow 1:  
Average throughput: 39.14 Mbit/s  
95th percentile per-packet one-way delay: 72.856 ms  
Loss rate: 37.27%  
-- Flow 2:  
Average throughput: 26.90 Mbit/s  
95th percentile per-packet one-way delay: 74.184 ms  
Loss rate: 40.12%  
-- Flow 3:  
Average throughput: 12.15 Mbit/s  
95th percentile per-packet one-way delay: 74.007 ms  
Loss rate: 31.81%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-07-10 04:53:09

End at: 2018-07-10 04:53:39

Local clock offset: 0.288 ms

Remote clock offset: 5.396 ms

# Below is generated by plot.py at 2018-07-10 08:30:40

# Datalink statistics

-- Total of 3 flows:

Average throughput: 54.67 Mbit/s

95th percentile per-packet one-way delay: 73.223 ms

Loss rate: 40.23%

-- Flow 1:

Average throughput: 34.71 Mbit/s

95th percentile per-packet one-way delay: 71.616 ms

Loss rate: 31.68%

-- Flow 2:

Average throughput: 16.06 Mbit/s

95th percentile per-packet one-way delay: 74.531 ms

Loss rate: 43.51%

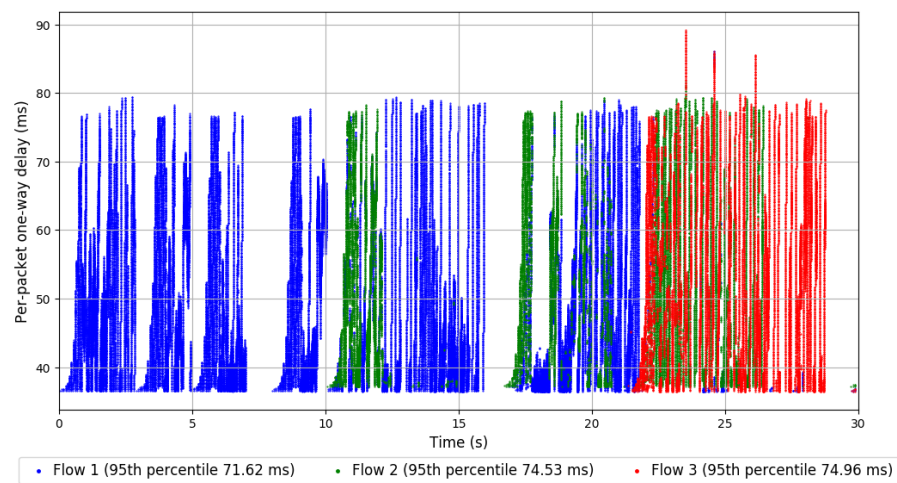
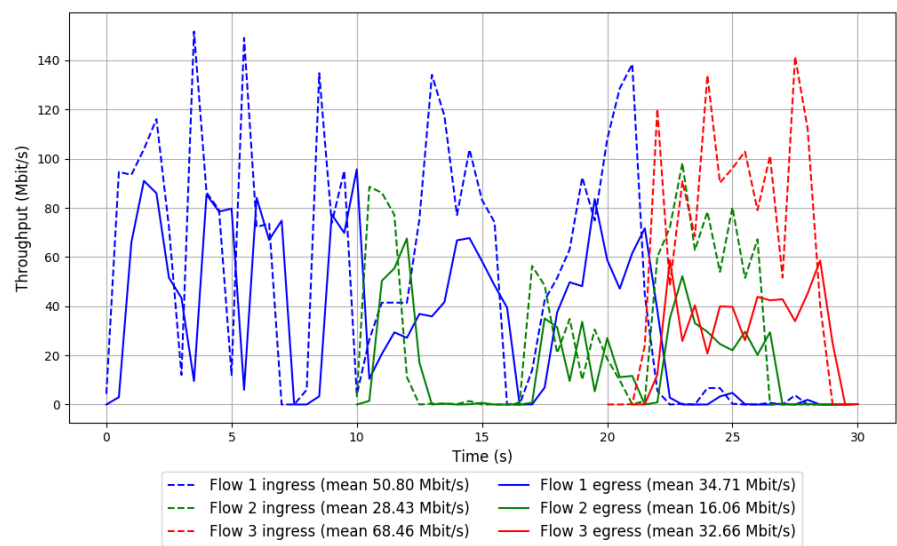
-- Flow 3:

Average throughput: 32.66 Mbit/s

95th percentile per-packet one-way delay: 74.959 ms

Loss rate: 57.32%

Run 3: Report of Verus — Data Link



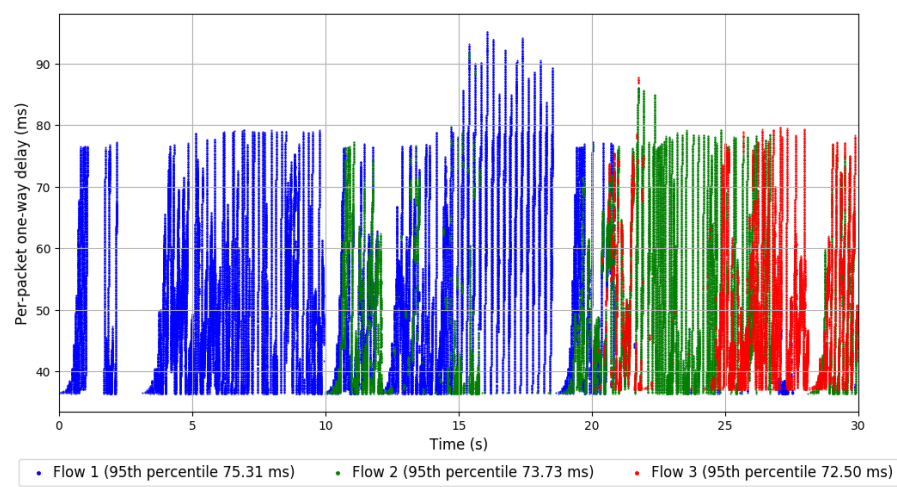
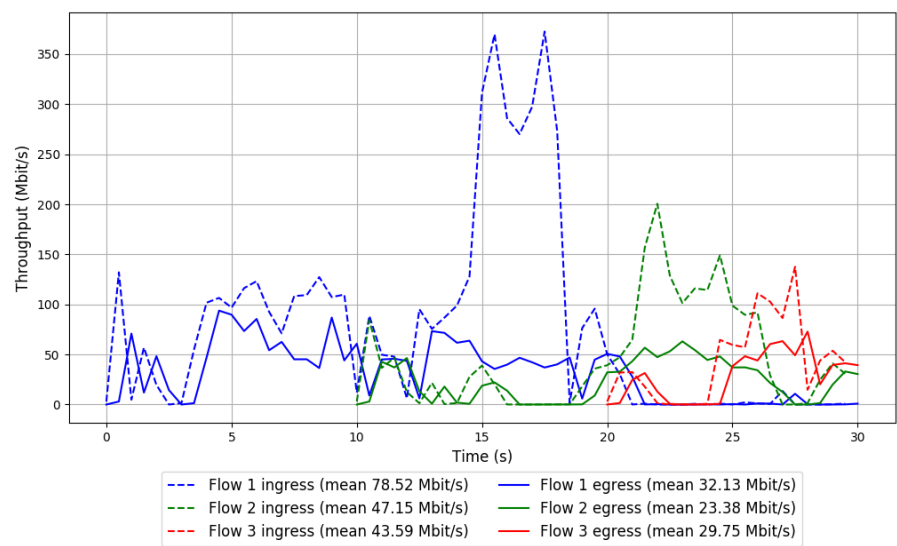
Run 4: Statistics of Verus

Start at: 2018-07-10 05:21:14  
End at: 2018-07-10 05:21:44  
Local clock offset: 0.091 ms  
Remote clock offset: 4.943 ms

# Below is generated by plot.py at 2018-07-10 08:30:53  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 57.46 Mbit/s  
95th percentile per-packet one-way delay: 74.388 ms  
Loss rate: 53.70%  
-- Flow 1:  
Average throughput: 32.13 Mbit/s  
95th percentile per-packet one-way delay: 75.313 ms  
Loss rate: 59.08%  
-- Flow 2:  
Average throughput: 23.38 Mbit/s  
95th percentile per-packet one-way delay: 73.731 ms  
Loss rate: 50.38%  
-- Flow 3:  
Average throughput: 29.75 Mbit/s  
95th percentile per-packet one-way delay: 72.498 ms  
Loss rate: 31.70%



Run 4: Report of Verus — Data Link

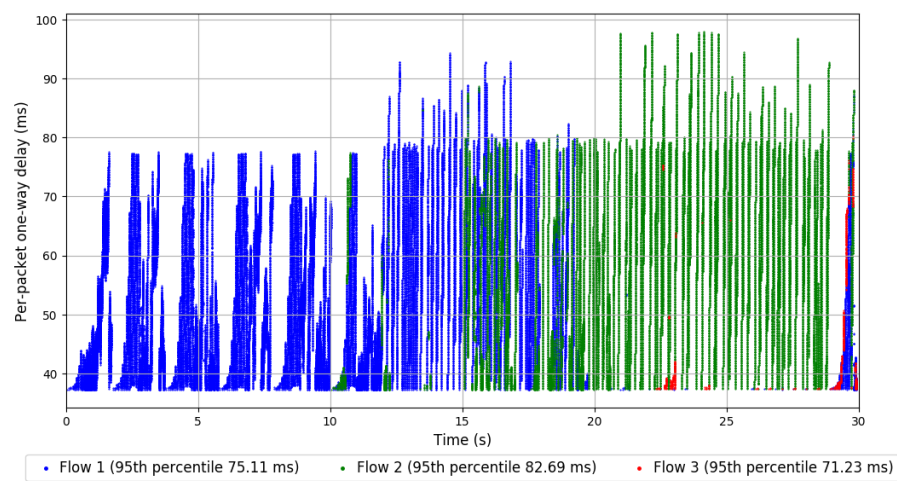
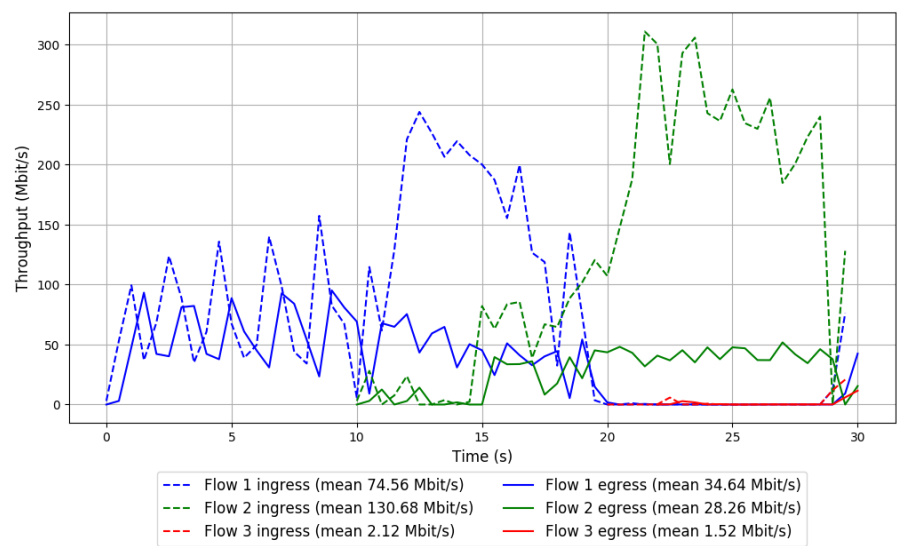


Run 5: Statistics of Verus

Start at: 2018-07-10 05:48:35  
End at: 2018-07-10 05:49:05  
Local clock offset: -0.195 ms  
Remote clock offset: 2.233 ms

# Below is generated by plot.py at 2018-07-10 08:31:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 53.70 Mbit/s  
95th percentile per-packet one-way delay: 77.548 ms  
Loss rate: 66.75%  
-- Flow 1:  
Average throughput: 34.64 Mbit/s  
95th percentile per-packet one-way delay: 75.111 ms  
Loss rate: 53.54%  
-- Flow 2:  
Average throughput: 28.26 Mbit/s  
95th percentile per-packet one-way delay: 82.688 ms  
Loss rate: 78.35%  
-- Flow 3:  
Average throughput: 1.52 Mbit/s  
95th percentile per-packet one-way delay: 71.228 ms  
Loss rate: 43.19%

Run 5: Report of Verus — Data Link

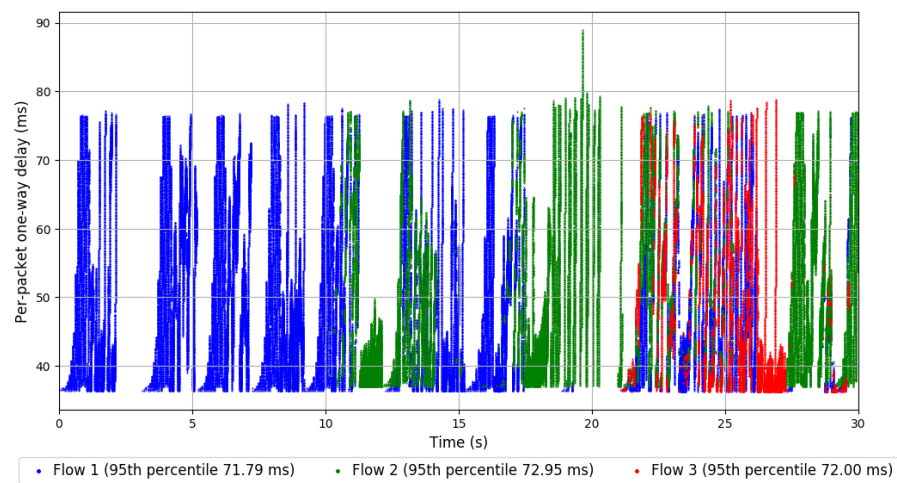
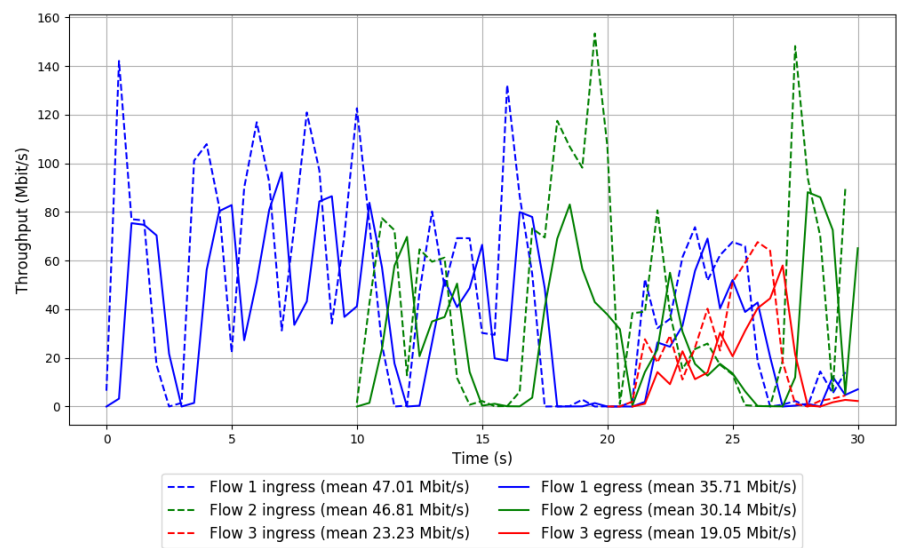


Run 6: Statistics of Verus

Start at: 2018-07-10 06:15:07  
End at: 2018-07-10 06:15:37  
Local clock offset: -0.196 ms  
Remote clock offset: 1.894 ms

# Below is generated by plot.py at 2018-07-10 08:31:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 60.86 Mbit/s  
95th percentile per-packet one-way delay: 72.204 ms  
Loss rate: 28.59%  
-- Flow 1:  
Average throughput: 35.71 Mbit/s  
95th percentile per-packet one-way delay: 71.792 ms  
Loss rate: 24.22%  
-- Flow 2:  
Average throughput: 30.14 Mbit/s  
95th percentile per-packet one-way delay: 72.948 ms  
Loss rate: 35.53%  
-- Flow 3:  
Average throughput: 19.05 Mbit/s  
95th percentile per-packet one-way delay: 71.997 ms  
Loss rate: 27.11%

Run 6: Report of Verus — Data Link

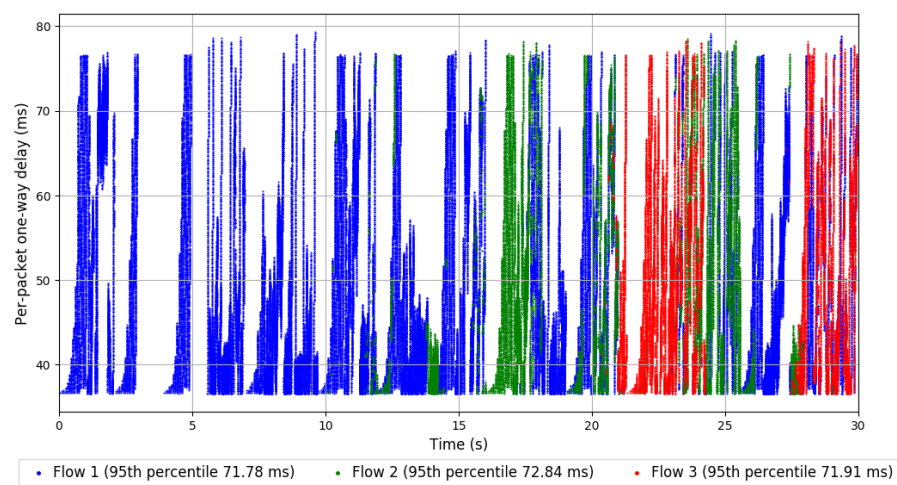
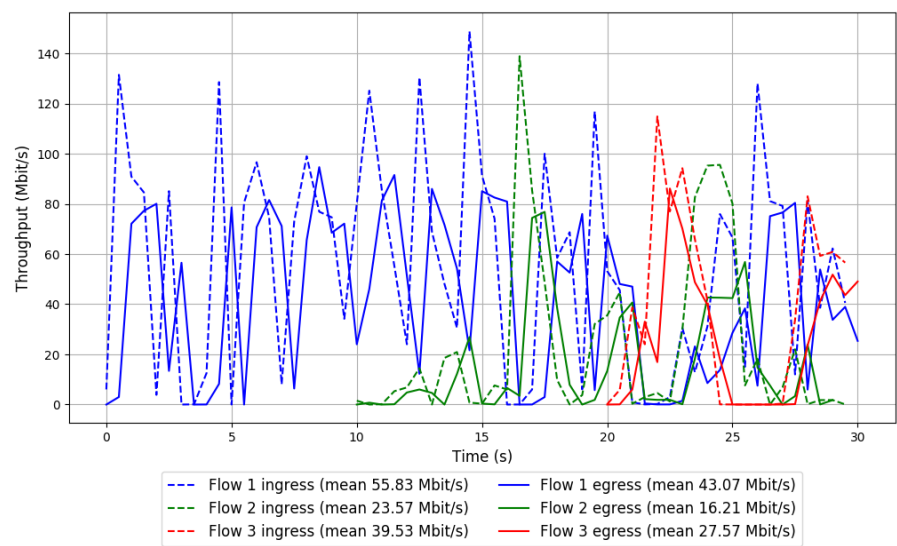


Run 7: Statistics of Verus

Start at: 2018-07-10 06:40:51  
End at: 2018-07-10 06:41:21  
Local clock offset: -0.069 ms  
Remote clock offset: 5.139 ms

# Below is generated by plot.py at 2018-07-10 08:31:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 62.17 Mbit/s  
95th percentile per-packet one-way delay: 72.011 ms  
Loss rate: 25.98%  
-- Flow 1:  
Average throughput: 43.07 Mbit/s  
95th percentile per-packet one-way delay: 71.781 ms  
Loss rate: 22.77%  
-- Flow 2:  
Average throughput: 16.21 Mbit/s  
95th percentile per-packet one-way delay: 72.840 ms  
Loss rate: 34.11%  
-- Flow 3:  
Average throughput: 27.57 Mbit/s  
95th percentile per-packet one-way delay: 71.914 ms  
Loss rate: 30.13%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-07-10 07:05:28

End at: 2018-07-10 07:05:58

Local clock offset: 0.17 ms

Remote clock offset: 3.896 ms

# Below is generated by plot.py at 2018-07-10 08:31:24

# Datalink statistics

-- Total of 3 flows:

Average throughput: 62.87 Mbit/s

95th percentile per-packet one-way delay: 75.816 ms

Loss rate: 64.06%

-- Flow 1:

Average throughput: 49.30 Mbit/s

95th percentile per-packet one-way delay: 77.134 ms

Loss rate: 68.95%

-- Flow 2:

Average throughput: 14.77 Mbit/s

95th percentile per-packet one-way delay: 72.772 ms

Loss rate: 26.54%

-- Flow 3:

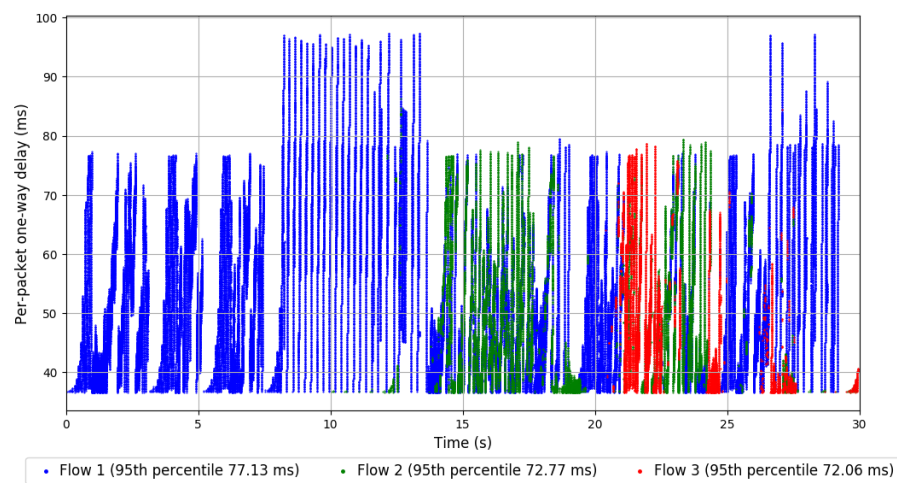
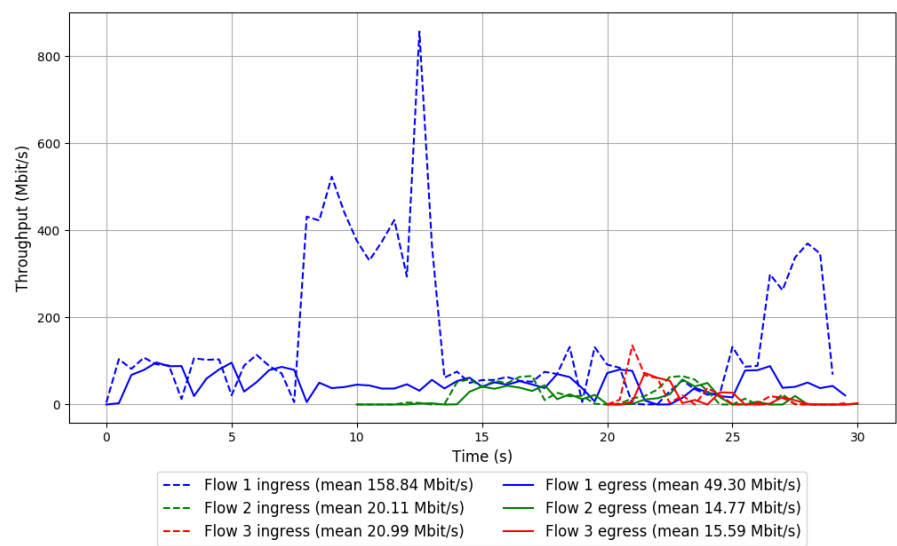
Average throughput: 15.59 Mbit/s

95th percentile per-packet one-way delay: 72.064 ms

Loss rate: 25.91%



Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-07-10 07:30:43

End at: 2018-07-10 07:31:13

Local clock offset: 0.12 ms

Remote clock offset: 4.005 ms

# Below is generated by plot.py at 2018-07-10 08:31:24

# Datalink statistics

-- Total of 3 flows:

Average throughput: 62.32 Mbit/s

95th percentile per-packet one-way delay: 72.839 ms

Loss rate: 36.27%

-- Flow 1:

Average throughput: 43.16 Mbit/s

95th percentile per-packet one-way delay: 73.046 ms

Loss rate: 38.90%

-- Flow 2:

Average throughput: 29.91 Mbit/s

95th percentile per-packet one-way delay: 72.381 ms

Loss rate: 29.13%

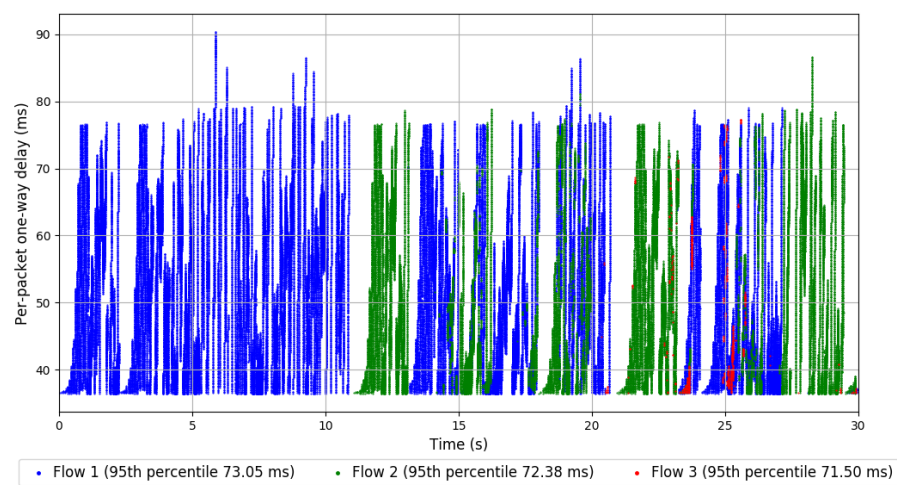
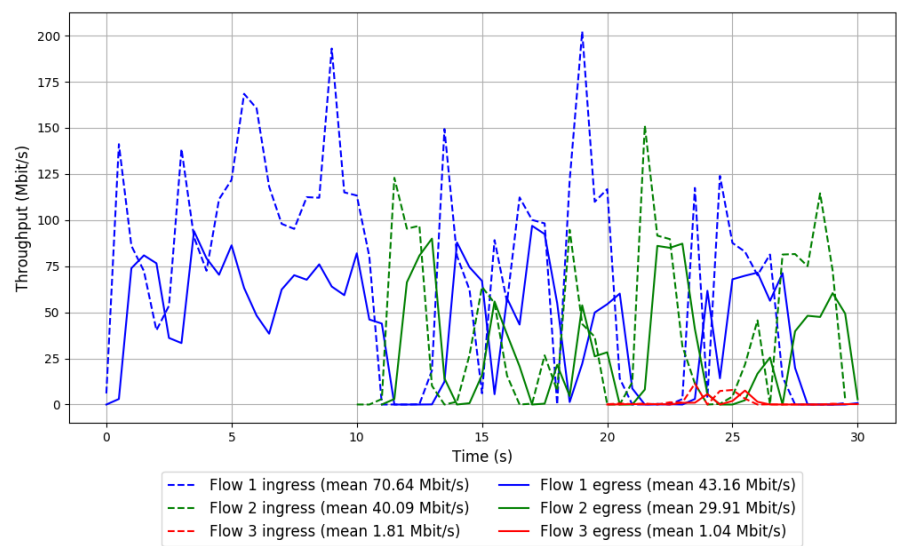
-- Flow 3:

Average throughput: 1.04 Mbit/s

95th percentile per-packet one-way delay: 71.501 ms

Loss rate: 42.46%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-07-10 07:56:52

End at: 2018-07-10 07:57:22

Local clock offset: 8.705 ms

# Below is generated by plot.py at 2018-07-10 08:31:40

# Datalink statistics

-- Total of 3 flows:

Average throughput: 61.14 Mbit/s

95th percentile per-packet one-way delay: 72.595 ms

Loss rate: 58.32%

-- Flow 1:

Average throughput: 39.60 Mbit/s

95th percentile per-packet one-way delay: 72.256 ms

Loss rate: 59.89%

-- Flow 2:

Average throughput: 33.28 Mbit/s

95th percentile per-packet one-way delay: 73.129 ms

Loss rate: 55.76%

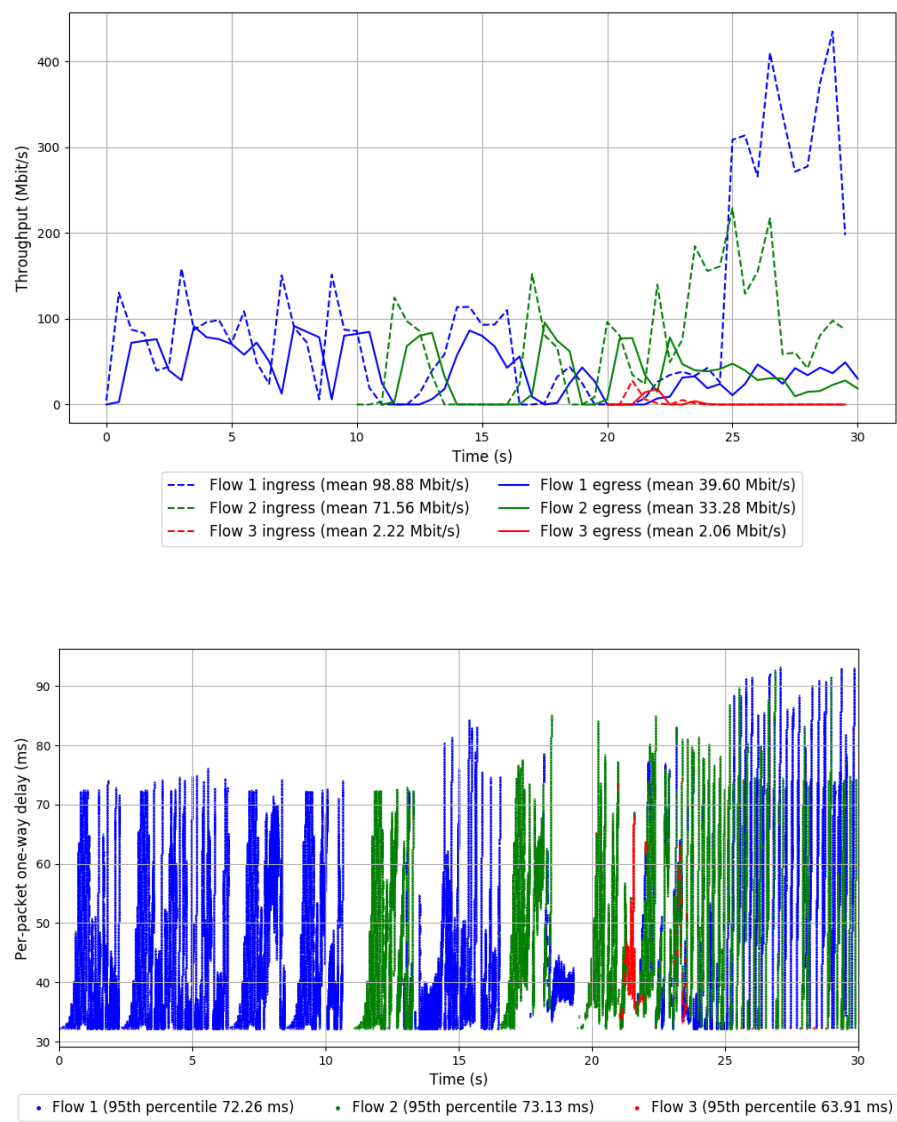
-- Flow 3:

Average throughput: 2.06 Mbit/s

95th percentile per-packet one-way delay: 63.910 ms

Loss rate: 12.71%

Run 10: Report of Verus — Data Link

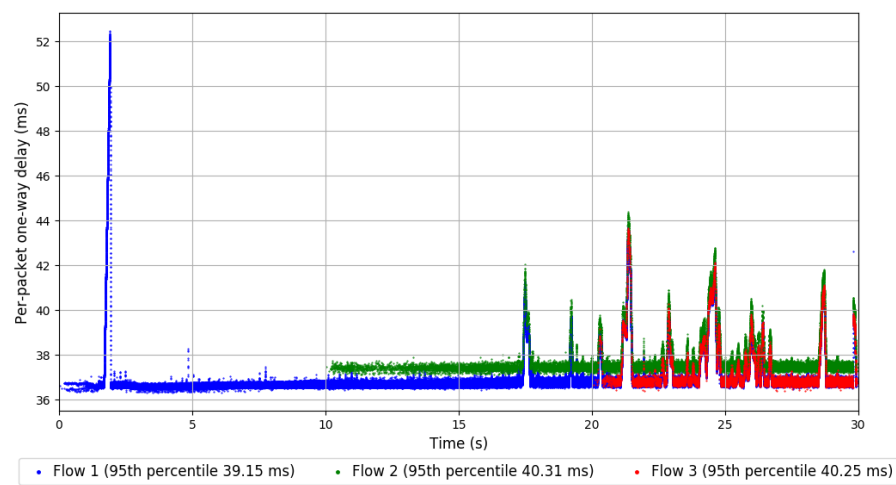
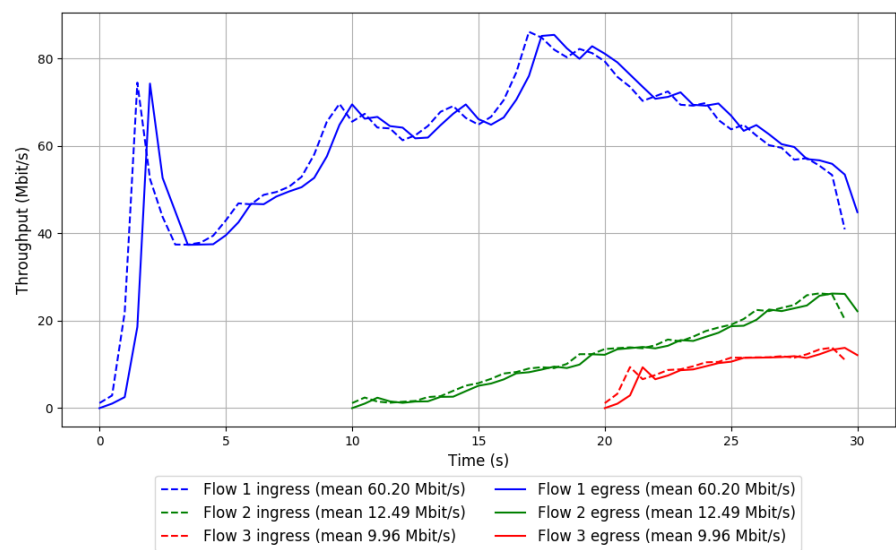


Run 1: Statistics of PCC-Vivace

Start at: 2018-07-10 03:53:25  
End at: 2018-07-10 03:53:55  
Local clock offset: 0.568 ms  
Remote clock offset: -0.938 ms

# Below is generated by plot.py at 2018-07-10 08:31:46  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 71.79 Mbit/s  
95th percentile per-packet one-way delay: 39.430 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 60.20 Mbit/s  
95th percentile per-packet one-way delay: 39.150 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 12.49 Mbit/s  
95th percentile per-packet one-way delay: 40.307 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 9.96 Mbit/s  
95th percentile per-packet one-way delay: 40.248 ms  
Loss rate: 0.00%

Run 1: Report of PCC-Vivace — Data Link



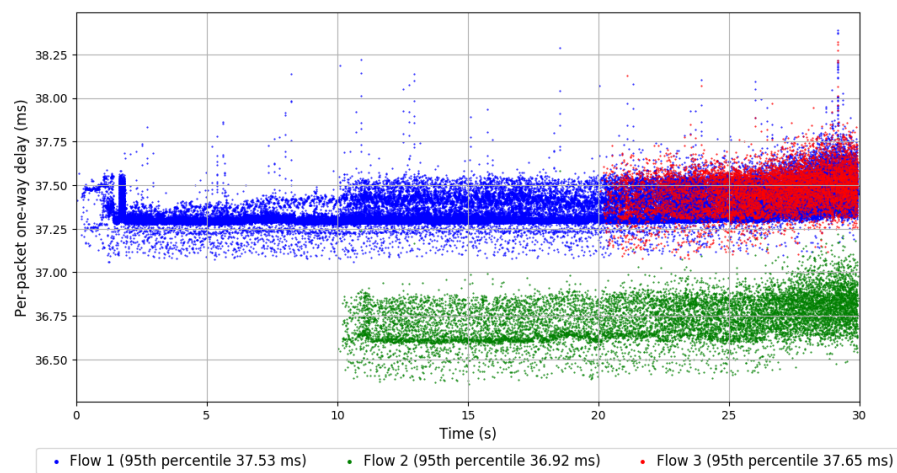
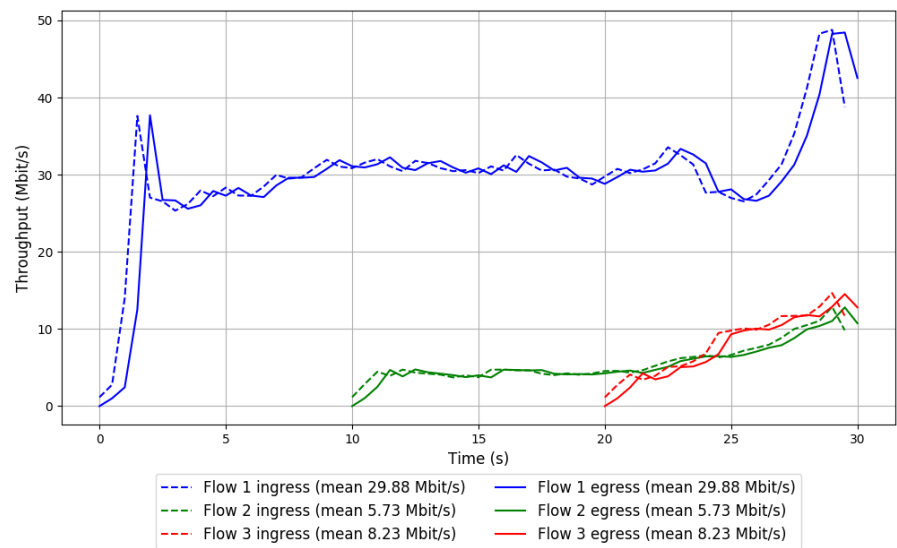
Run 2: Statistics of PCC-Vivace

Start at: 2018-07-10 04:22:25  
End at: 2018-07-10 04:22:55  
Local clock offset: 0.377 ms  
Remote clock offset: -2.038 ms

# Below is generated by plot.py at 2018-07-10 08:31:46  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 36.41 Mbit/s  
95th percentile per-packet one-way delay: 37.547 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 29.88 Mbit/s  
95th percentile per-packet one-way delay: 37.535 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 5.73 Mbit/s  
95th percentile per-packet one-way delay: 36.921 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 8.23 Mbit/s  
95th percentile per-packet one-way delay: 37.654 ms  
Loss rate: 0.00%



Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-07-10 04:50:14

End at: 2018-07-10 04:50:44

Local clock offset: 0.374 ms

Remote clock offset: 4.989 ms

# Below is generated by plot.py at 2018-07-10 08:31:55

# Datalink statistics

-- Total of 3 flows:

Average throughput: 61.31 Mbit/s

95th percentile per-packet one-way delay: 62.576 ms

Loss rate: 0.21%

-- Flow 1:

Average throughput: 44.32 Mbit/s

95th percentile per-packet one-way delay: 61.589 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 21.07 Mbit/s

95th percentile per-packet one-way delay: 66.731 ms

Loss rate: 0.50%

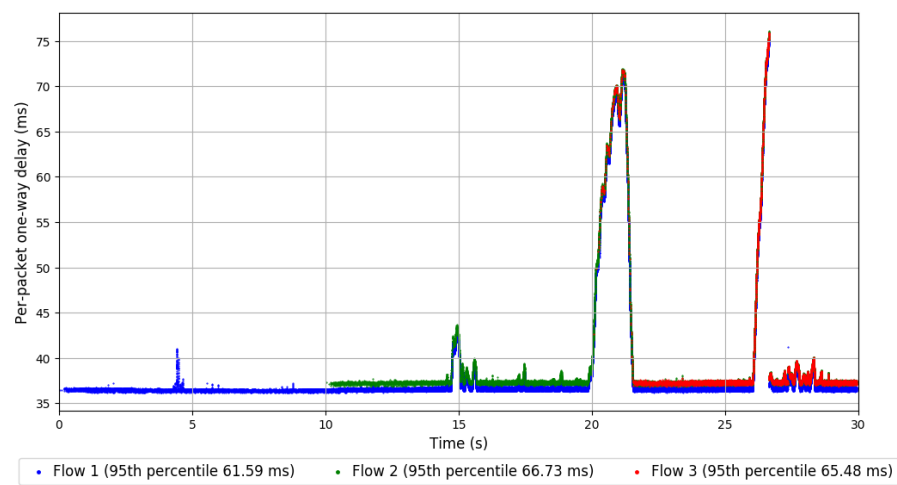
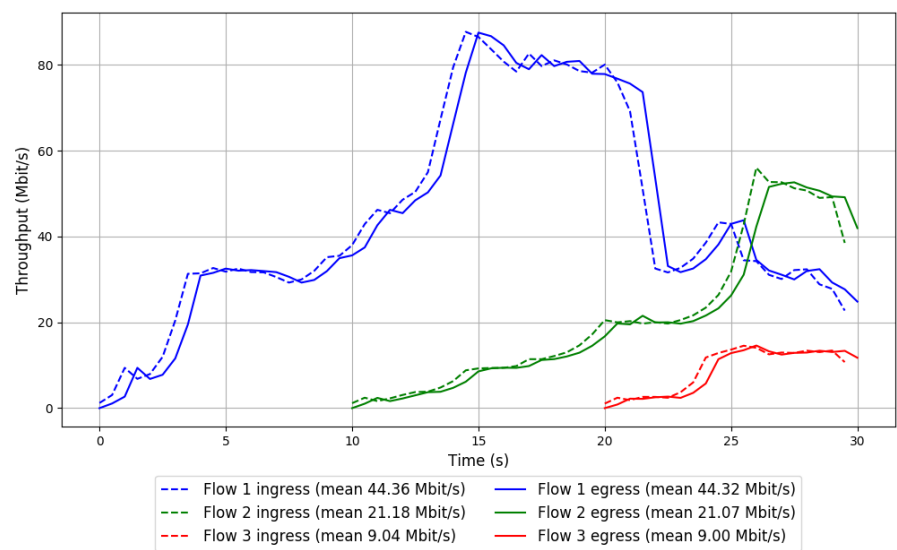
-- Flow 3:

Average throughput: 9.00 Mbit/s

95th percentile per-packet one-way delay: 65.478 ms

Loss rate: 0.55%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2018-07-10 05:18:19

End at: 2018-07-10 05:18:49

Local clock offset: 0.128 ms

Remote clock offset: 4.953 ms

# Below is generated by plot.py at 2018-07-10 08:31:55

# Datalink statistics

-- Total of 3 flows:

Average throughput: 45.01 Mbit/s

95th percentile per-packet one-way delay: 39.570 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 21.49 Mbit/s

95th percentile per-packet one-way delay: 39.216 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 28.23 Mbit/s

95th percentile per-packet one-way delay: 39.599 ms

Loss rate: 0.00%

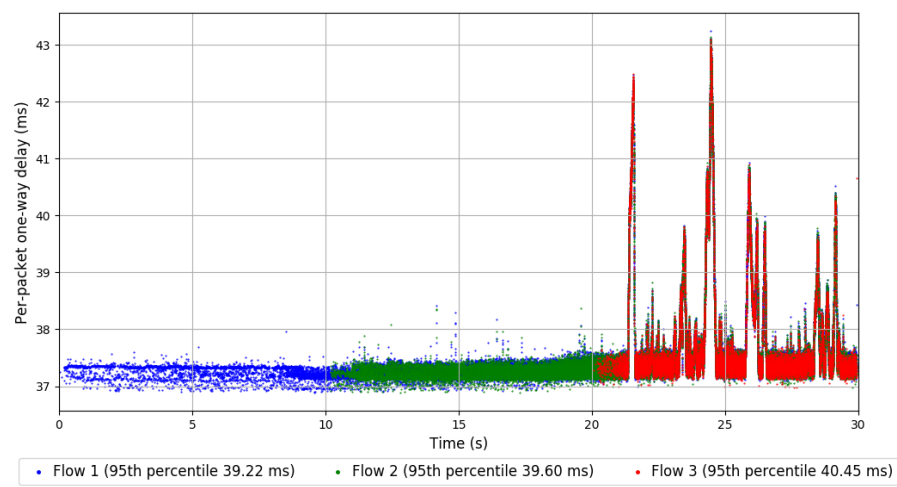
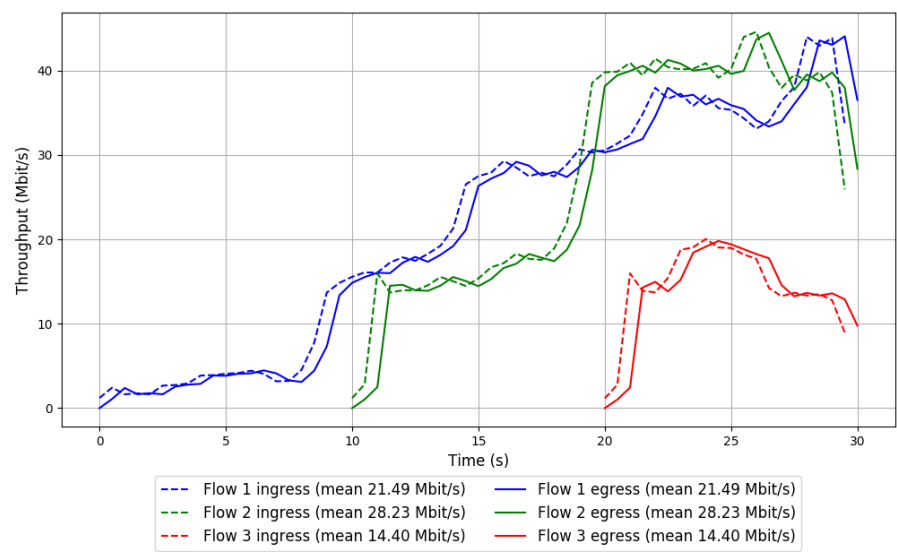
-- Flow 3:

Average throughput: 14.40 Mbit/s

95th percentile per-packet one-way delay: 40.450 ms

Loss rate: 0.00%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2018-07-10 05:45:40

End at: 2018-07-10 05:46:10

Local clock offset: -0.256 ms

Remote clock offset: 2.75 ms

# Below is generated by plot.py at 2018-07-10 08:32:03

# Datalink statistics

-- Total of 3 flows:

Average throughput: 54.14 Mbit/s

95th percentile per-packet one-way delay: 61.837 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 33.95 Mbit/s

95th percentile per-packet one-way delay: 58.177 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 26.72 Mbit/s

95th percentile per-packet one-way delay: 66.537 ms

Loss rate: 0.00%

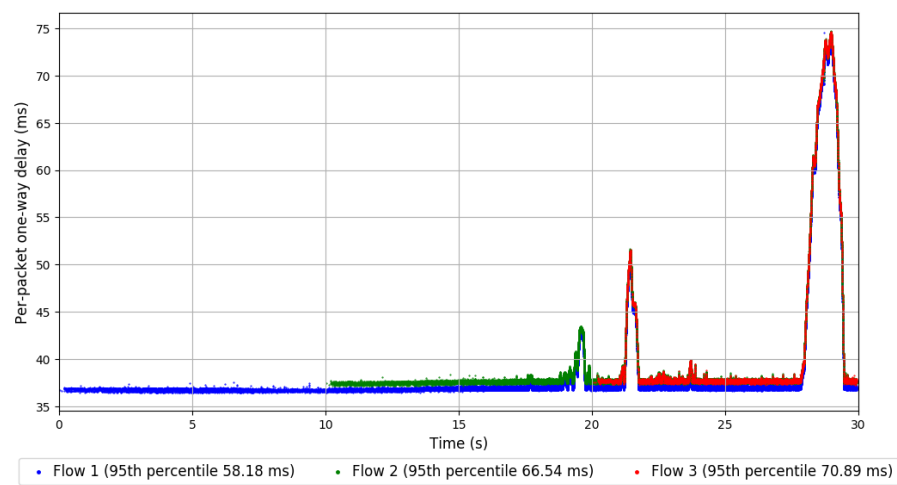
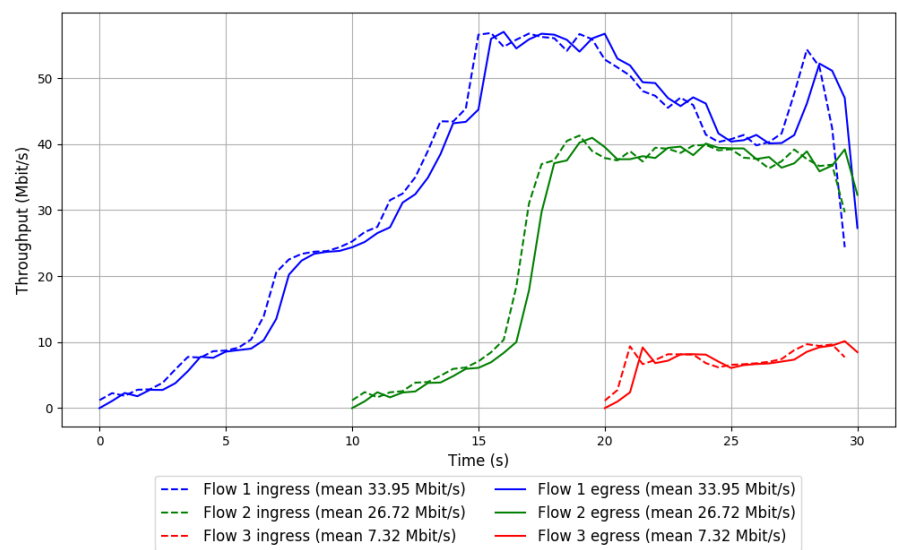
-- Flow 3:

Average throughput: 7.32 Mbit/s

95th percentile per-packet one-way delay: 70.885 ms

Loss rate: 0.00%

Run 5: Report of PCC-Vivace — Data Link



Run 6: Statistics of PCC-Vivace

Start at: 2018-07-10 06:12:12

End at: 2018-07-10 06:12:42

Local clock offset: -0.207 ms

Remote clock offset: 0.841 ms

# Below is generated by plot.py at 2018-07-10 08:32:27

# Datalink statistics

-- Total of 3 flows:

Average throughput: 73.21 Mbit/s

95th percentile per-packet one-way delay: 51.999 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 59.52 Mbit/s

95th percentile per-packet one-way delay: 52.165 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 18.06 Mbit/s

95th percentile per-packet one-way delay: 51.587 ms

Loss rate: 0.00%

-- Flow 3:

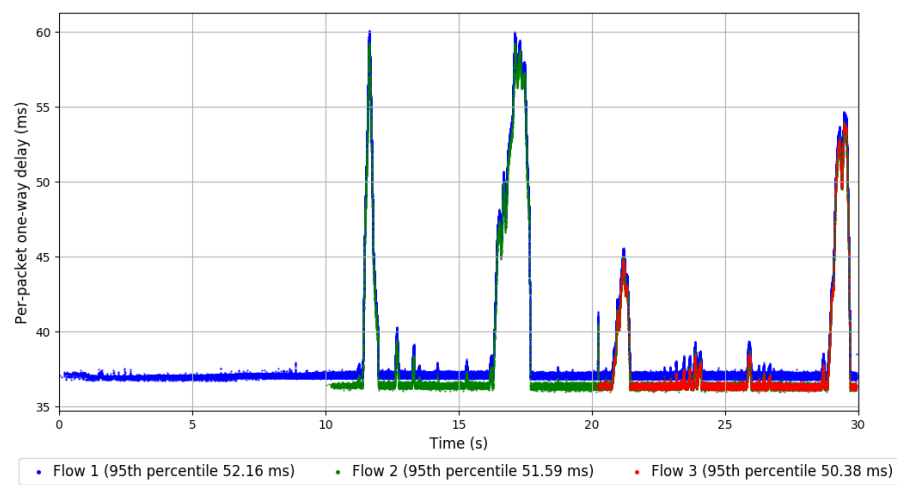
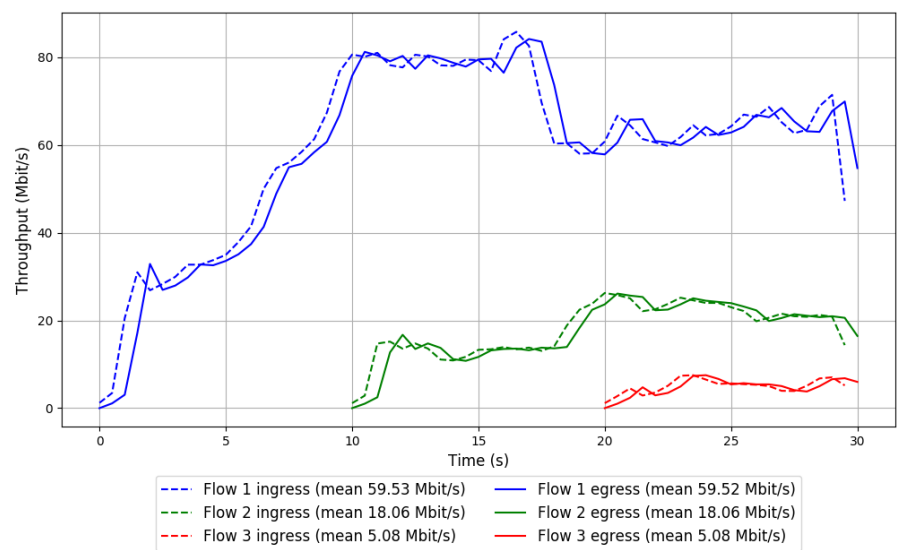
Average throughput: 5.08 Mbit/s

95th percentile per-packet one-way delay: 50.382 ms

Loss rate: 0.00%



Run 6: Report of PCC-Vivace — Data Link



Run 7: Statistics of PCC-Vivace

Start at: 2018-07-10 06:38:07

End at: 2018-07-10 06:38:37

Local clock offset: -0.092 ms

Remote clock offset: 4.863 ms

# Below is generated by plot.py at 2018-07-10 08:32:33

# Datalink statistics

-- Total of 3 flows:

Average throughput: 82.73 Mbit/s

95th percentile per-packet one-way delay: 50.993 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 70.42 Mbit/s

95th percentile per-packet one-way delay: 51.213 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 15.12 Mbit/s

95th percentile per-packet one-way delay: 49.977 ms

Loss rate: 0.01%

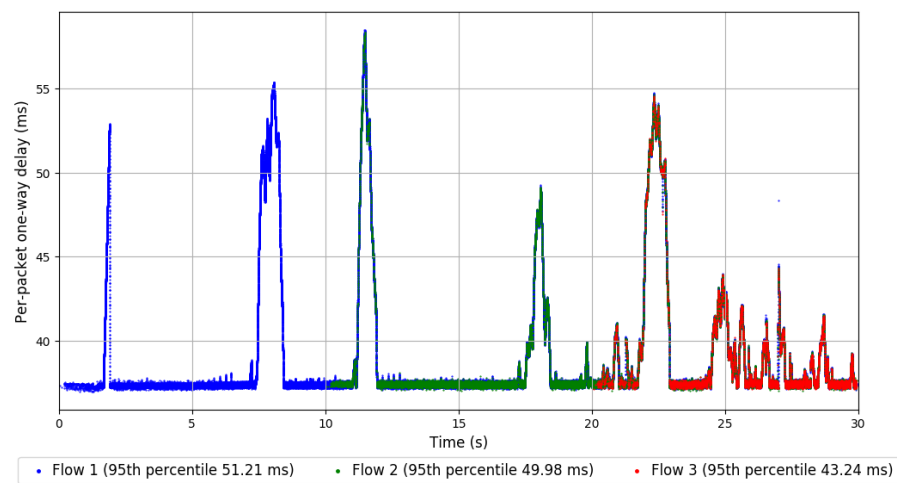
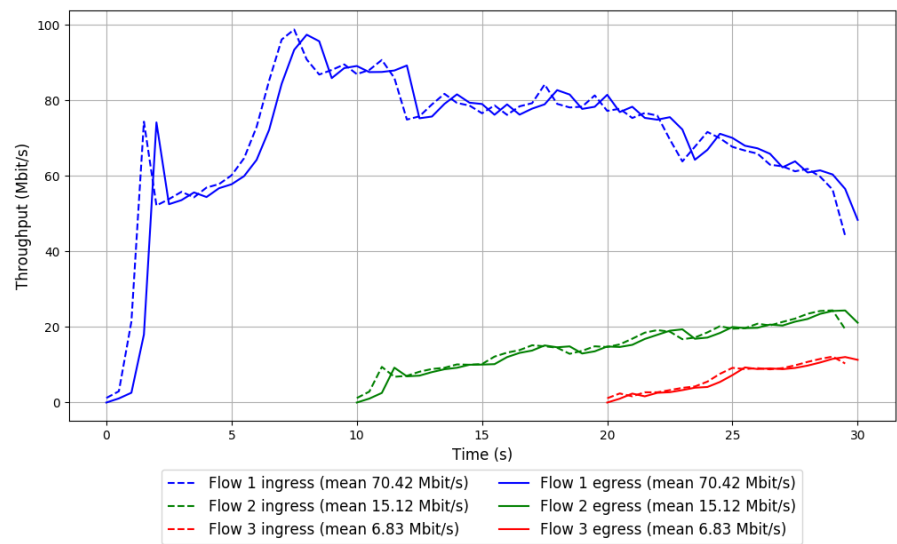
-- Flow 3:

Average throughput: 6.83 Mbit/s

95th percentile per-packet one-way delay: 43.243 ms

Loss rate: 0.02%

Run 7: Report of PCC-Vivace — Data Link



Run 8: Statistics of PCC-Vivace

Start at: 2018-07-10 07:02:28

End at: 2018-07-10 07:02:58

Local clock offset: 0.095 ms

Remote clock offset: 3.862 ms

# Below is generated by plot.py at 2018-07-10 08:32:34

# Datalink statistics

-- Total of 3 flows:

Average throughput: 83.71 Mbit/s

95th percentile per-packet one-way delay: 46.337 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 66.44 Mbit/s

95th percentile per-packet one-way delay: 45.423 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 20.84 Mbit/s

95th percentile per-packet one-way delay: 47.725 ms

Loss rate: 0.00%

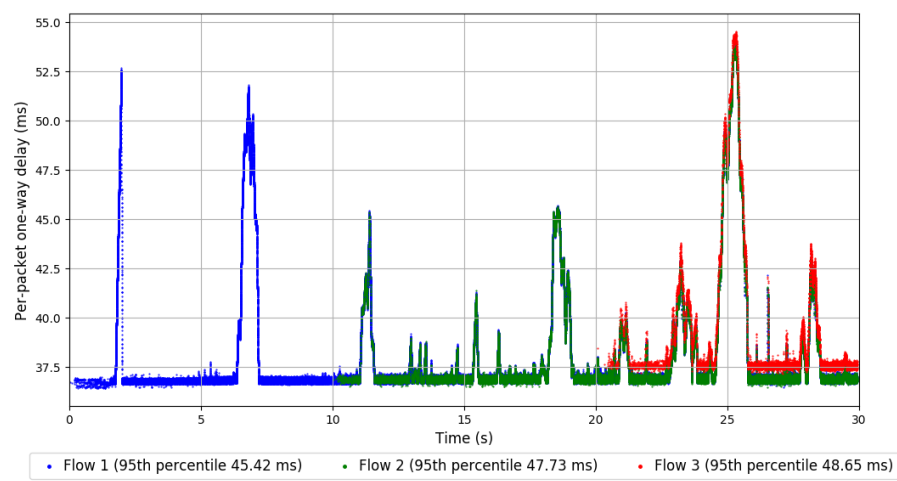
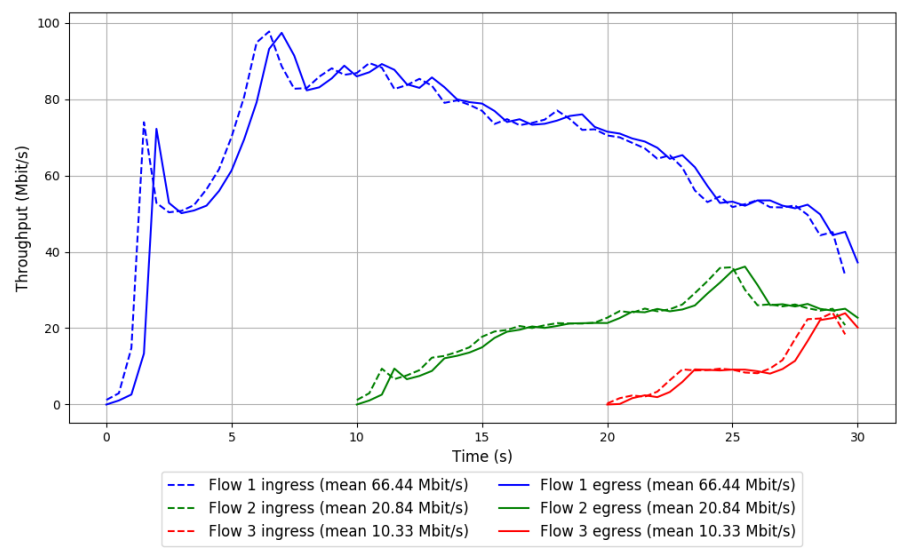
-- Flow 3:

Average throughput: 10.33 Mbit/s

95th percentile per-packet one-way delay: 48.647 ms

Loss rate: 0.01%

Run 8: Report of PCC-Vivace — Data Link



Run 9: Statistics of PCC-Vivace

Start at: 2018-07-10 07:27:52

End at: 2018-07-10 07:28:22

Local clock offset: 0.217 ms

Remote clock offset: 4.081 ms

# Below is generated by plot.py at 2018-07-10 08:32:37

# Datalink statistics

-- Total of 3 flows:

Average throughput: 81.15 Mbit/s

95th percentile per-packet one-way delay: 40.669 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 67.14 Mbit/s

95th percentile per-packet one-way delay: 40.341 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 17.05 Mbit/s

95th percentile per-packet one-way delay: 41.550 ms

Loss rate: 0.01%

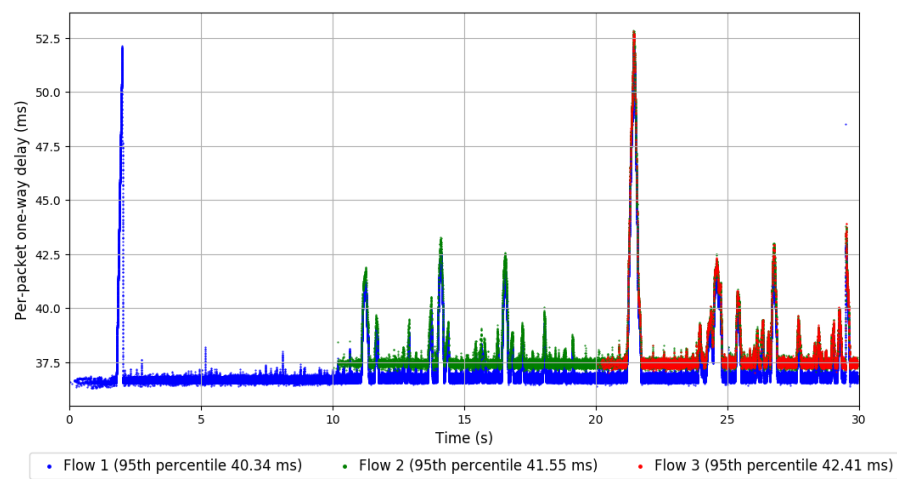
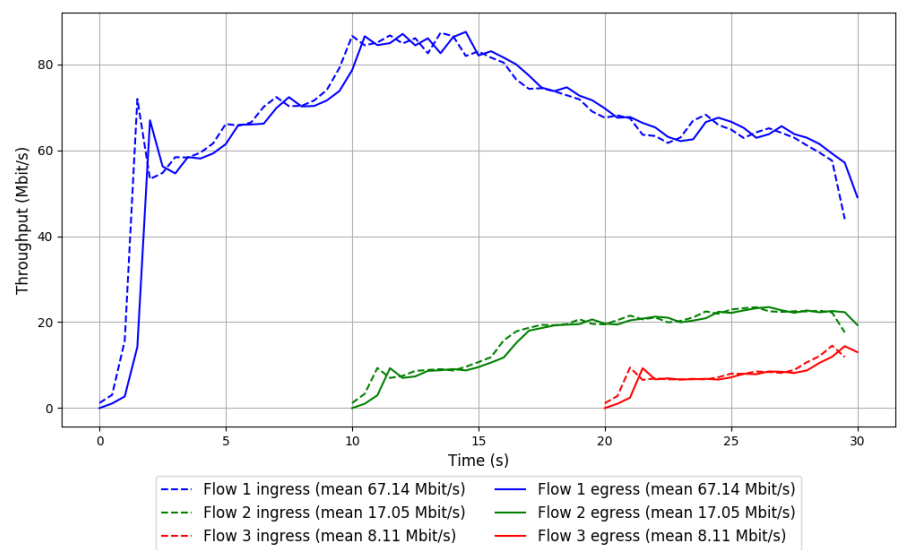
-- Flow 3:

Average throughput: 8.11 Mbit/s

95th percentile per-packet one-way delay: 42.410 ms

Loss rate: 0.00%

Run 9: Report of PCC-Vivace — Data Link



Run 10: Statistics of PCC-Vivace

Start at: 2018-07-10 07:53:23

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

Local clock offset: 0.126 ms

Remote clock offset: 3.87 ms

# Below is generated by plot.py at 2018-07-10 08:32:38

# Datalink statistics

-- Total of 3 flows:

Average throughput: 84.98 Mbit/s

95th percentile per-packet one-way delay: 50.877 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 67.25 Mbit/s

95th percentile per-packet one-way delay: 47.711 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 19.01 Mbit/s

95th percentile per-packet one-way delay: 55.677 ms

Loss rate: 0.01%

-- Flow 3:

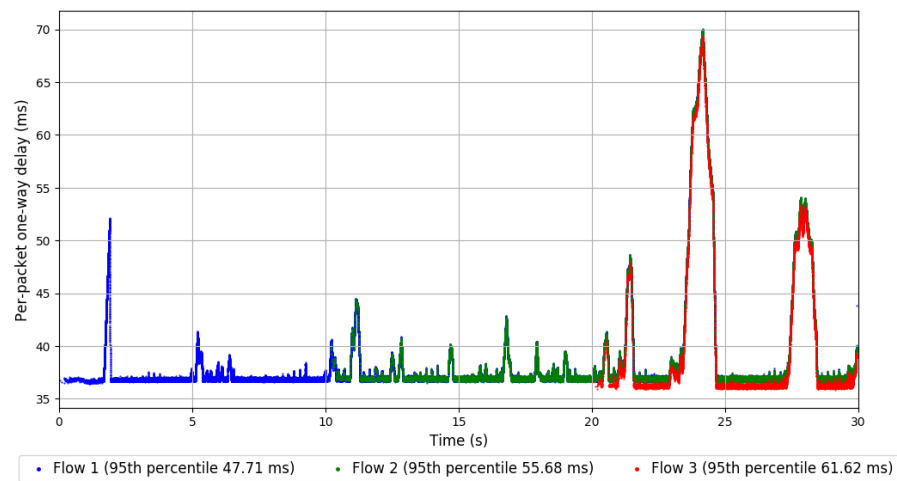
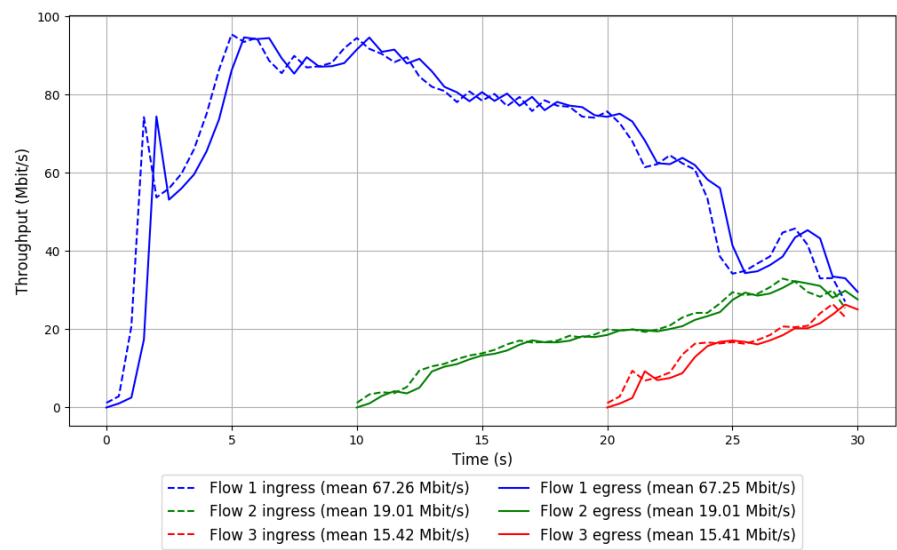
Average throughput: 15.41 Mbit/s

95th percentile per-packet one-way delay: 61.619 ms

Loss rate: 0.00%



Run 10: Report of PCC-Vivace — Data Link

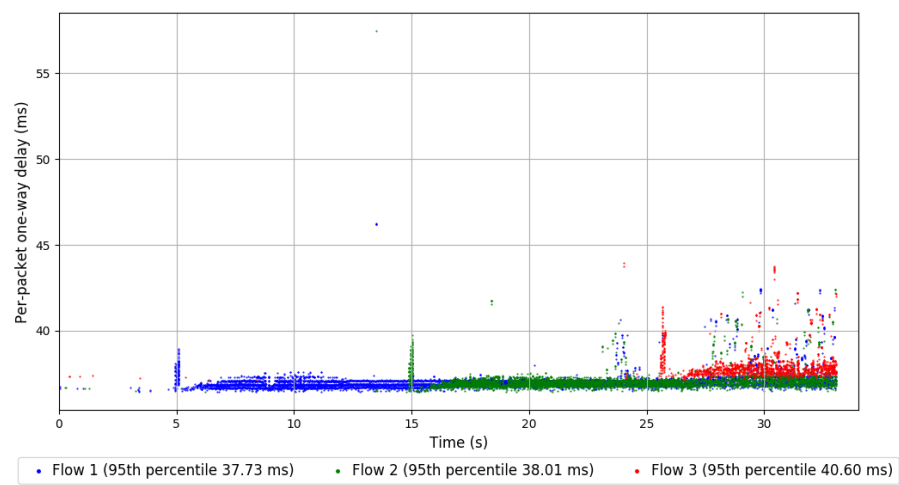
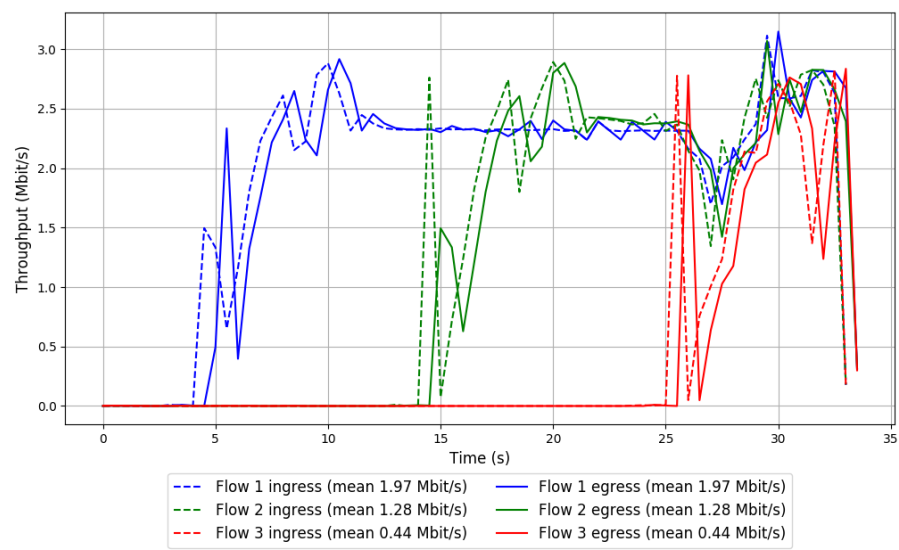


Run 1: Statistics of WebRTC media

Start at: 2018-07-10 03:46:33  
End at: 2018-07-10 03:47:03  
Local clock offset: 0.49 ms  
Remote clock offset: -0.627 ms

# Below is generated by plot.py at 2018-07-10 08:32:38  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 3.67 Mbit/s  
95th percentile per-packet one-way delay: 38.324 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 1.97 Mbit/s  
95th percentile per-packet one-way delay: 37.726 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 1.28 Mbit/s  
95th percentile per-packet one-way delay: 38.008 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.44 Mbit/s  
95th percentile per-packet one-way delay: 40.602 ms  
Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link

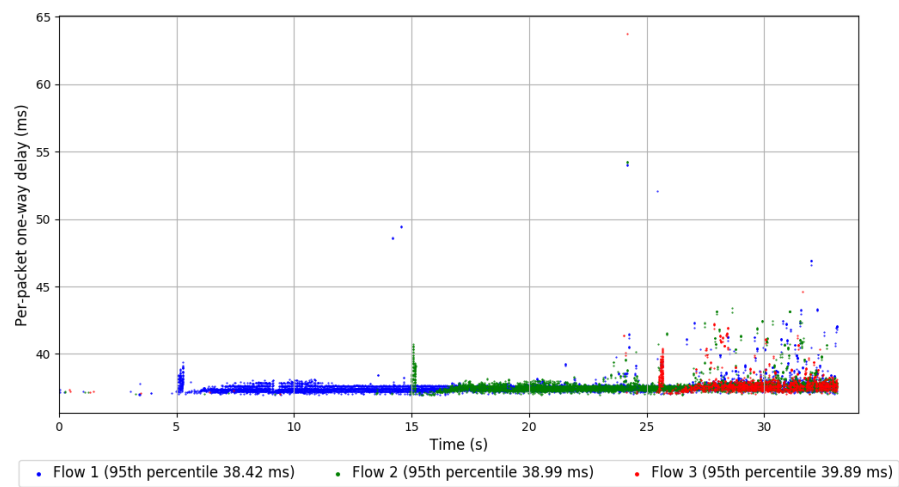
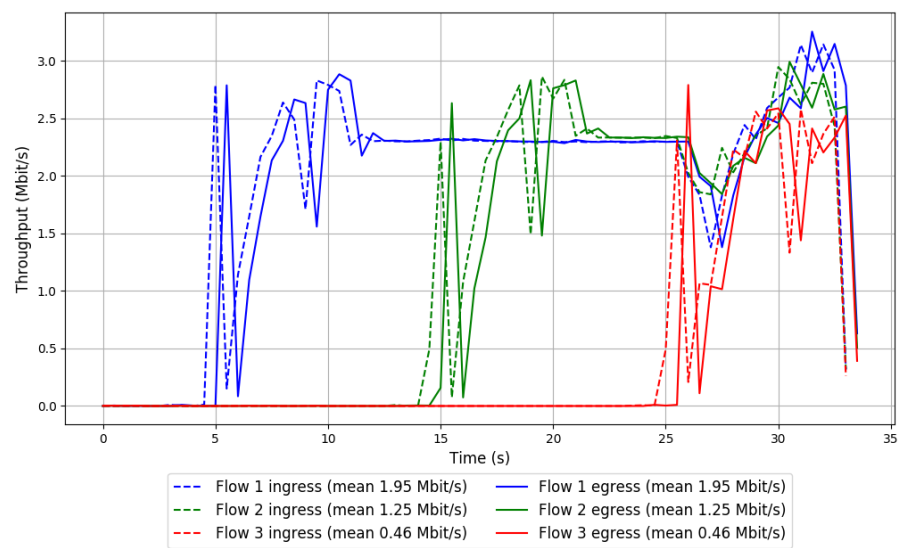


Run 2: Statistics of WebRTC media

Start at: 2018-07-10 04:15:42  
End at: 2018-07-10 04:16:12  
Local clock offset: 0.504 ms  
Remote clock offset: -1.854 ms

# Below is generated by plot.py at 2018-07-10 08:32:38  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 3.65 Mbit/s  
95th percentile per-packet one-way delay: 38.788 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 1.95 Mbit/s  
95th percentile per-packet one-way delay: 38.421 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 1.25 Mbit/s  
95th percentile per-packet one-way delay: 38.987 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.46 Mbit/s  
95th percentile per-packet one-way delay: 39.894 ms  
Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-07-10 04:43:50

End at: 2018-07-10 04:44:20

Local clock offset: 0.394 ms

Remote clock offset: 3.883 ms

# Below is generated by plot.py at 2018-07-10 08:32:38

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.64 Mbit/s

95th percentile per-packet one-way delay: 38.191 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.97 Mbit/s

95th percentile per-packet one-way delay: 37.411 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.25 Mbit/s

95th percentile per-packet one-way delay: 38.424 ms

Loss rate: 0.00%

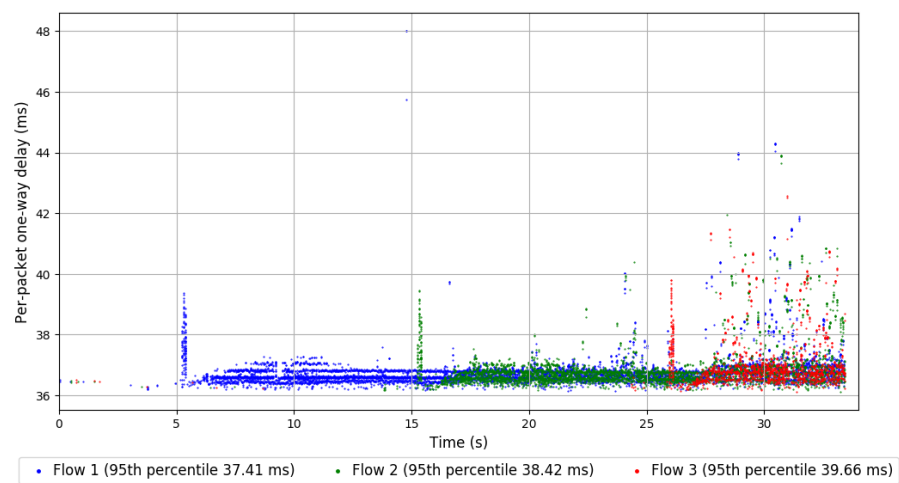
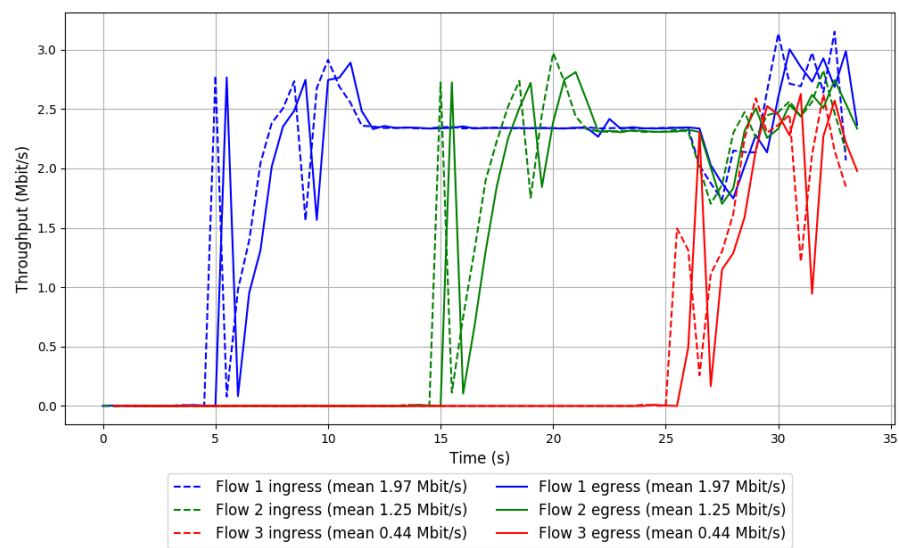
-- Flow 3:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 39.664 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-07-10 05:11:46

End at: 2018-07-10 05:12:16

Local clock offset: 0.187 ms

Remote clock offset: 5.184 ms

# Below is generated by plot.py at 2018-07-10 08:32:38

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.68 Mbit/s

95th percentile per-packet one-way delay: 38.720 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.96 Mbit/s

95th percentile per-packet one-way delay: 38.473 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.28 Mbit/s

95th percentile per-packet one-way delay: 38.755 ms

Loss rate: 0.00%

-- Flow 3:

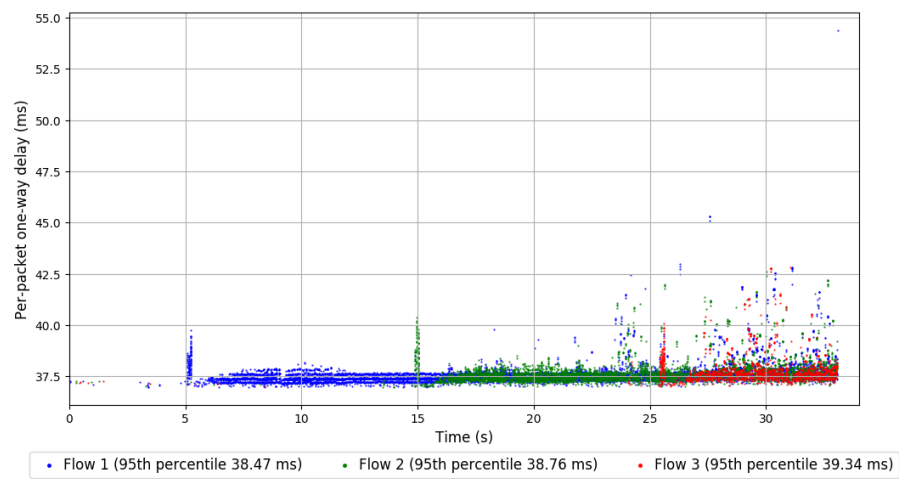
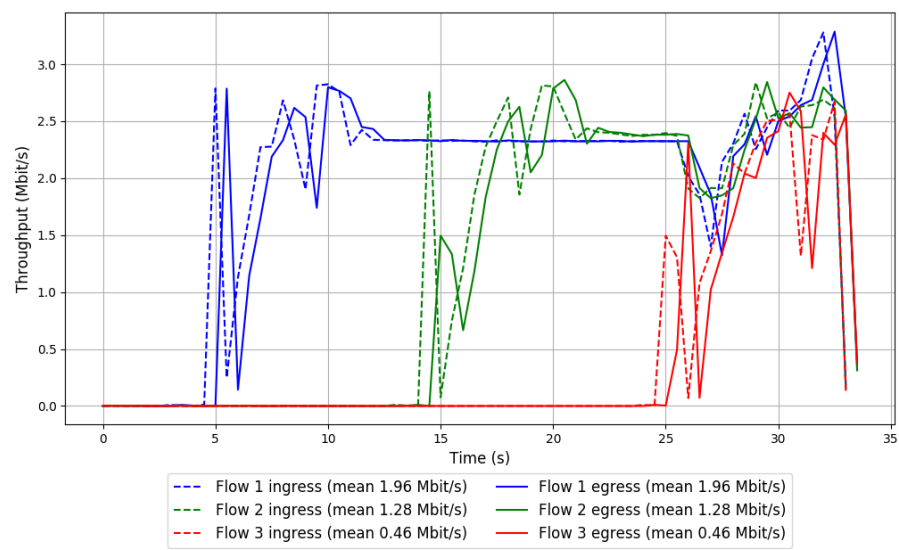
Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: 39.342 ms

Loss rate: 0.00%



Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-07-10 05:39:18

End at: 2018-07-10 05:39:48

Local clock offset: -0.115 ms

Remote clock offset: 4.537 ms

# Below is generated by plot.py at 2018-07-10 08:32:38

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.69 Mbit/s

95th percentile per-packet one-way delay: 38.483 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.98 Mbit/s

95th percentile per-packet one-way delay: 37.694 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.27 Mbit/s

95th percentile per-packet one-way delay: 39.131 ms

Loss rate: 0.00%

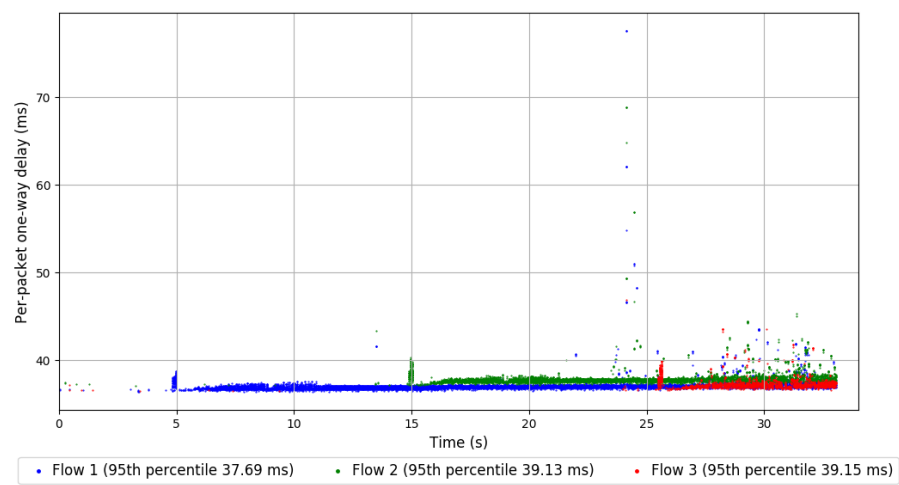
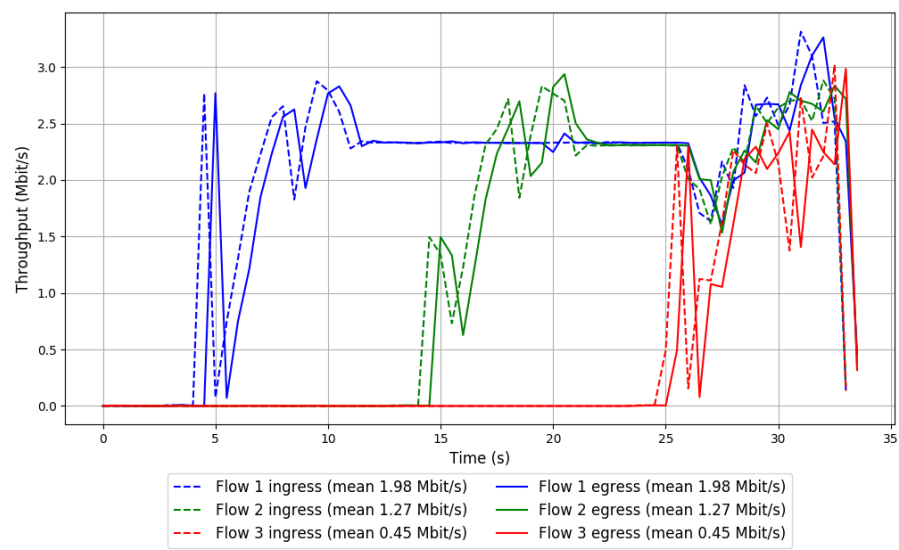
-- Flow 3:

Average throughput: 0.45 Mbit/s

95th percentile per-packet one-way delay: 39.149 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-07-10 06:05:53

End at: 2018-07-10 06:06:23

Local clock offset: -0.257 ms

Remote clock offset: 0.921 ms

# Below is generated by plot.py at 2018-07-10 08:32:38

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.70 Mbit/s

95th percentile per-packet one-way delay: 38.472 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.98 Mbit/s

95th percentile per-packet one-way delay: 37.801 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.29 Mbit/s

95th percentile per-packet one-way delay: 38.271 ms

Loss rate: 0.00%

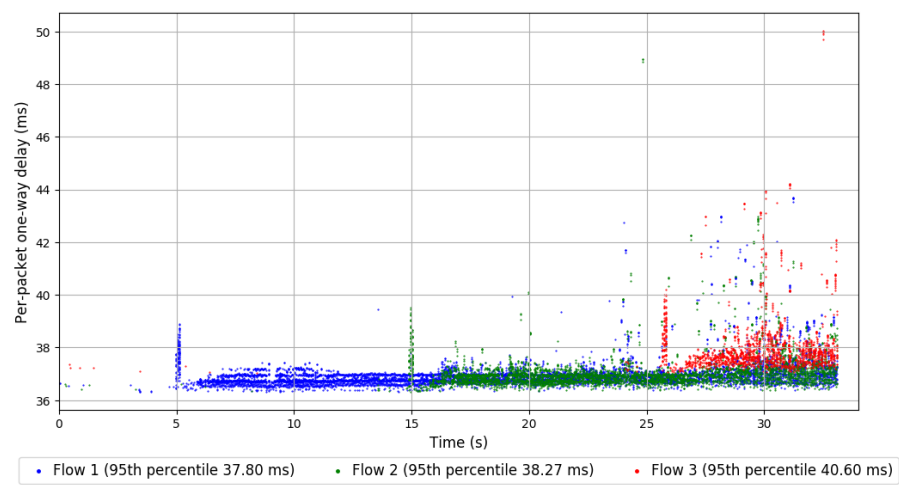
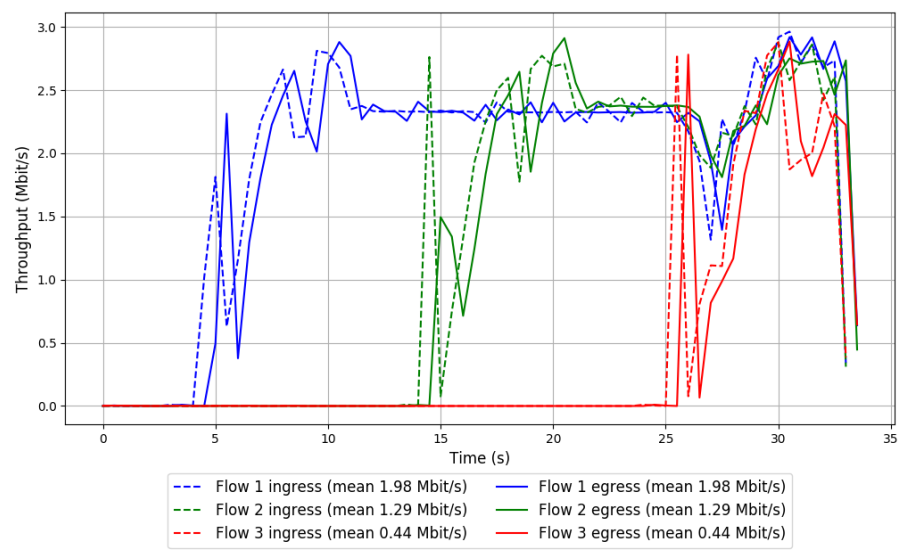
-- Flow 3:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 40.605 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-07-10 06:32:11

End at: 2018-07-10 06:32:41

Local clock offset: -0.068 ms

Remote clock offset: 4.44 ms

# Below is generated by plot.py at 2018-07-10 08:32:38

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.68 Mbit/s

95th percentile per-packet one-way delay: 38.556 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 1.96 Mbit/s

95th percentile per-packet one-way delay: 37.417 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.27 Mbit/s

95th percentile per-packet one-way delay: 39.471 ms

Loss rate: 0.16%

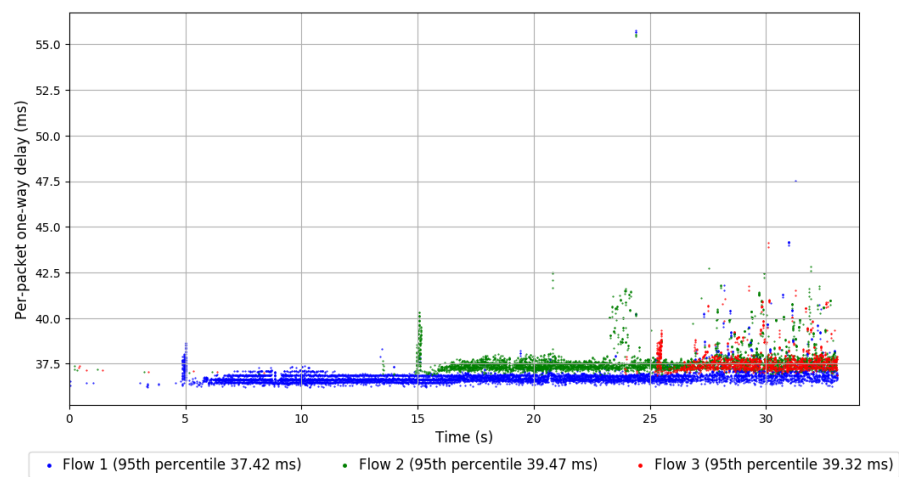
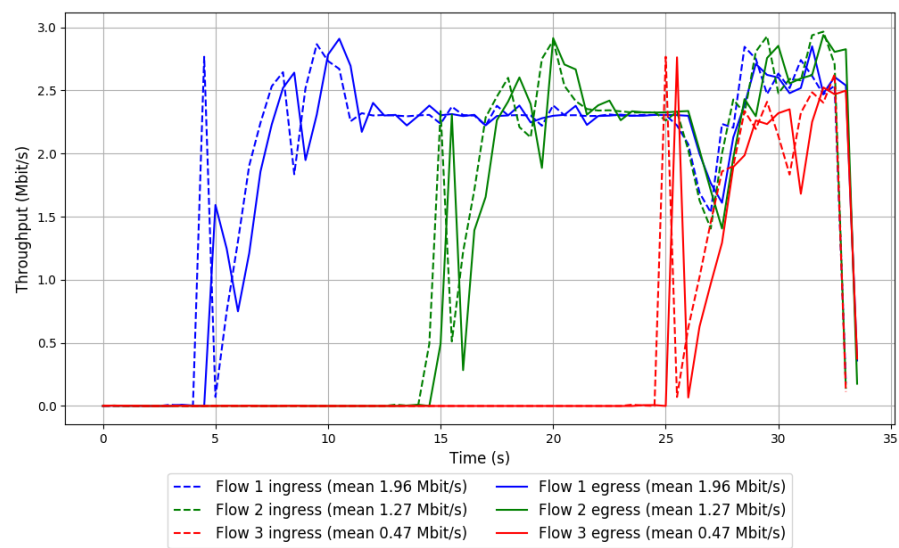
-- Flow 3:

Average throughput: 0.47 Mbit/s

95th percentile per-packet one-way delay: 39.322 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-07-10 06:56:46

End at: 2018-07-10 06:57:16

Local clock offset: 0.14 ms

Remote clock offset: 3.915 ms

# Below is generated by plot.py at 2018-07-10 08:32:38

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.68 Mbit/s

95th percentile per-packet one-way delay: 37.999 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.97 Mbit/s

95th percentile per-packet one-way delay: 37.474 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.27 Mbit/s

95th percentile per-packet one-way delay: 38.625 ms

Loss rate: 0.00%

-- Flow 3:

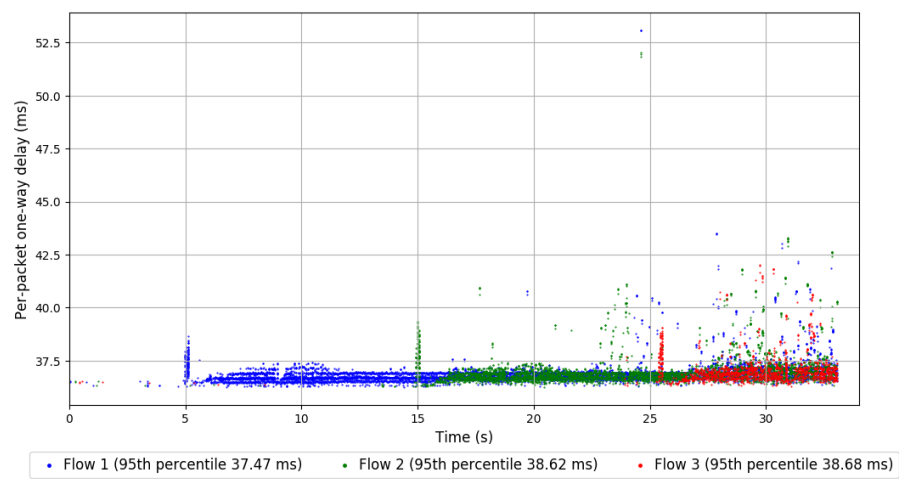
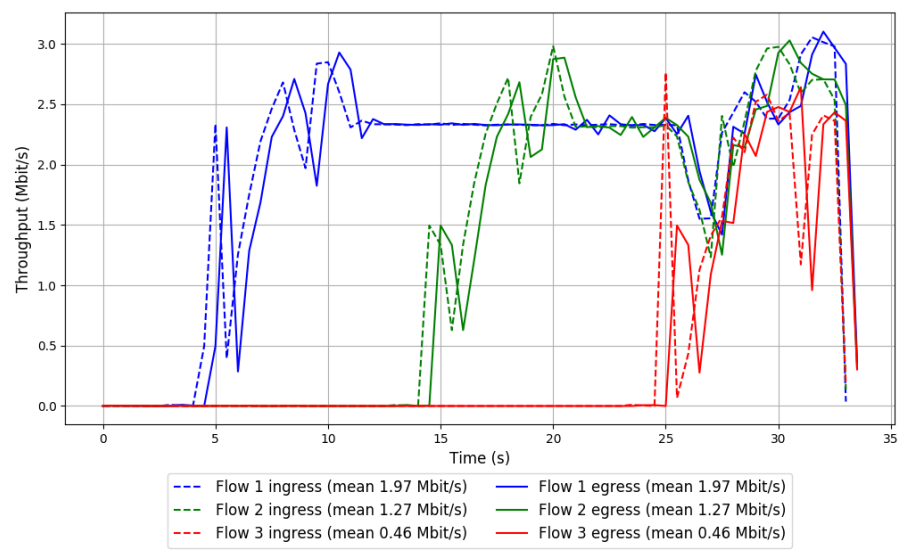
Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: 38.680 ms

Loss rate: 0.00%



Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-07-10 07:21:50

End at: 2018-07-10 07:22:20

Local clock offset: 0.217 ms

Remote clock offset: 4.018 ms

# Below is generated by plot.py at 2018-07-10 08:32:38

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.67 Mbit/s

95th percentile per-packet one-way delay: 38.425 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.96 Mbit/s

95th percentile per-packet one-way delay: 38.344 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.27 Mbit/s

95th percentile per-packet one-way delay: 37.887 ms

Loss rate: 0.00%

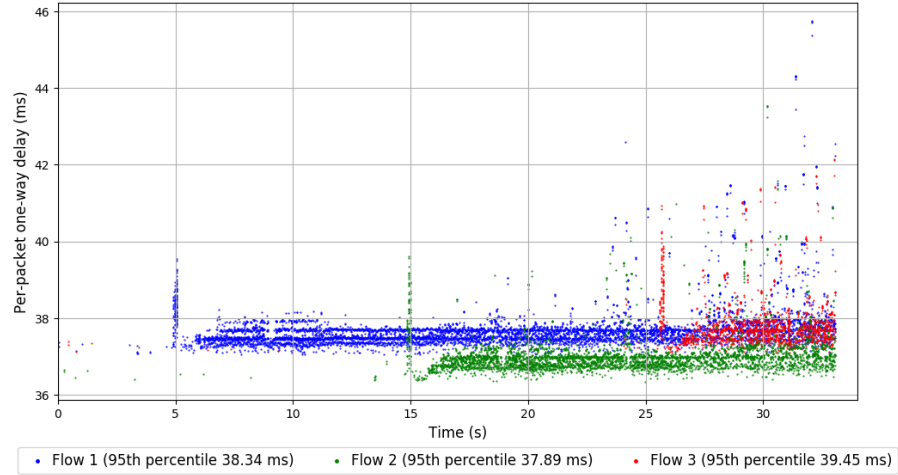
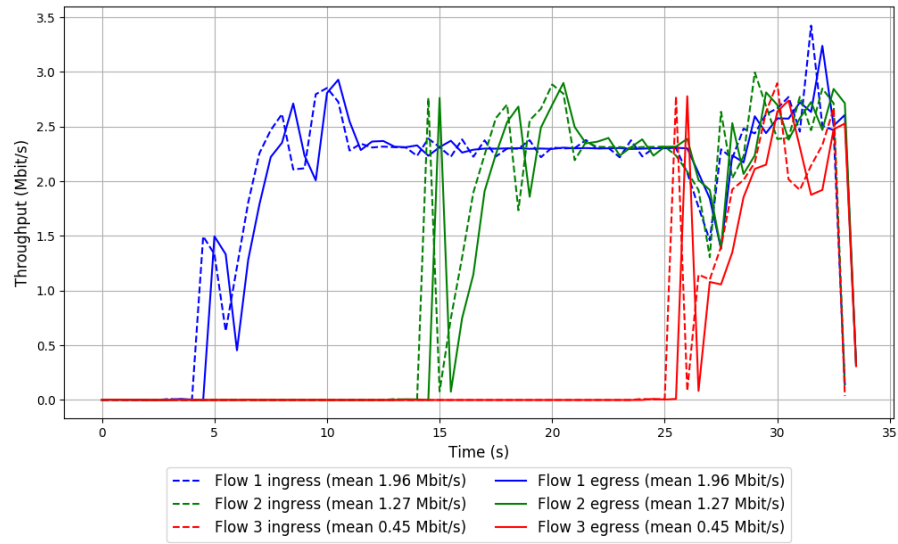
-- Flow 3:

Average throughput: 0.45 Mbit/s

95th percentile per-packet one-way delay: 39.449 ms

Loss rate: 0.00%

### Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-07-10 07:47:35

End at: 2018-07-10 07:48:05

Local clock offset: 0.205 ms

Remote clock offset: 4.361 ms

# Below is generated by plot.py at 2018-07-10 08:32:38

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.68 Mbit/s

95th percentile per-packet one-way delay: 38.785 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.97 Mbit/s

95th percentile per-packet one-way delay: 37.702 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.29 Mbit/s

95th percentile per-packet one-way delay: 39.096 ms

Loss rate: 0.00%

-- Flow 3:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 39.278 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

