

## Pantheon Report

Generated at 2018-08-01 11:58:59 (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.

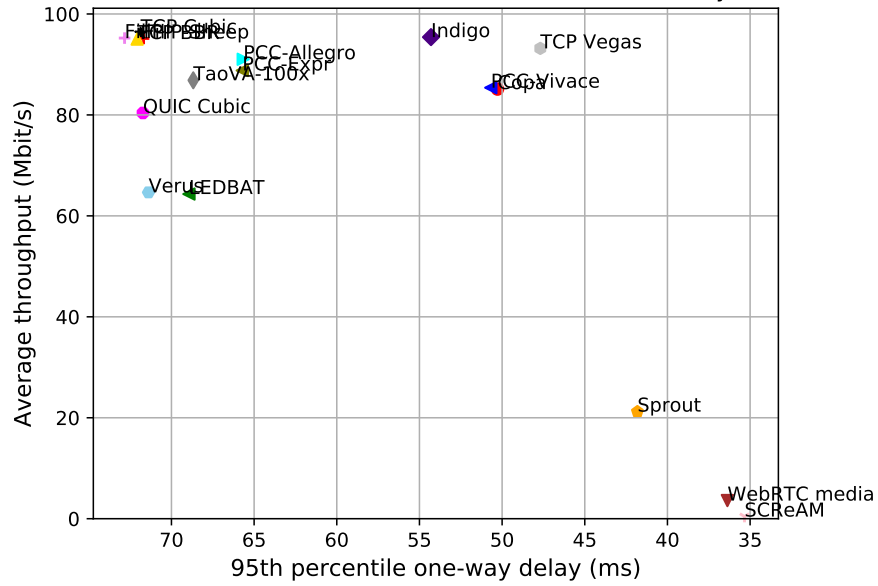
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

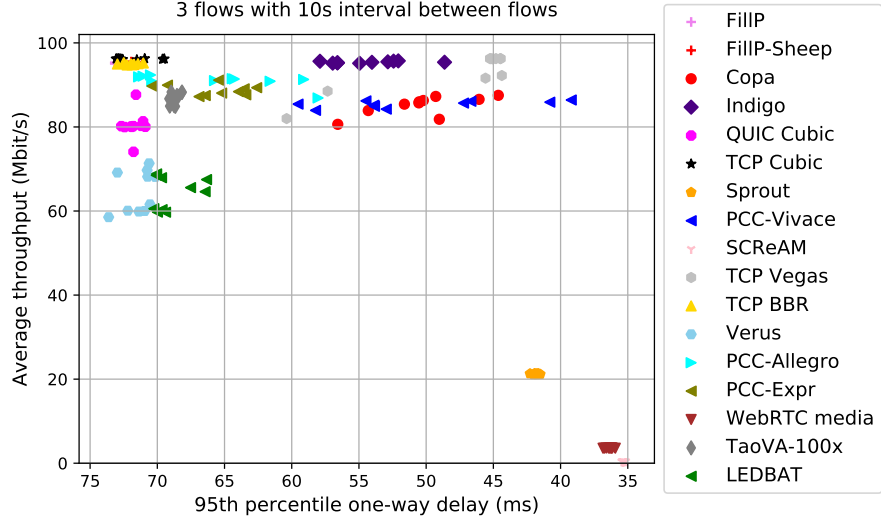
Git summary:

```
branch: master @ 640164b5b17c7c6561fff57729b3b5935d8596ce
third_party/fillp @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/fillp-sheep @ daed0c84f98531712514b2231f43ec6901114ffe
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-quick @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webRTC @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
```

test from 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     | 62.29                  | 32.49  | 33.76  | 71.36                     | 72.79  | 73.02  | 8.03               | 11.02  | 12.31  |
| Copa         | 10     | 63.70                  | 19.84  | 24.62  | 51.22                     | 46.20  | 44.76  | 0.86               | 0.35   | 0.05   |
| TCP Cubic    | 10     | 70.12                  | 27.92  | 22.54  | 71.65                     | 72.28  | 70.77  | 0.73               | 0.64   | 0.76   |
| FillP        | 10     | 60.51                  | 36.80  | 30.88  | 72.32                     | 73.46  | 73.48  | 21.89              | 34.84  | 38.76  |
| FillP-Sheep  | 10     | 58.60                  | 38.71  | 32.88  | 70.27                     | 72.75  | 73.02  | 13.64              | 25.46  | 31.64  |
| Indigo       | 10     | 65.21                  | 30.47  | 30.69  | 50.44                     | 57.03  | 61.82  | 0.27               | 0.47   | 0.93   |
| LEDBAT       | 10     | 40.69                  | 25.80  | 19.67  | 68.42                     | 69.80  | 61.08  | 0.15               | 0.19   | 0.10   |
| PCC-Allegro  | 10     | 81.21                  | 10.01  | 9.57   | 65.22                     | 67.54  | 66.79  | 2.85               | 3.31   | 5.30   |
| PCC-Expr     | 10     | 68.97                  | 23.08  | 13.59  | 64.65                     | 67.41  | 67.81  | 1.55               | 0.94   | 1.13   |
| QUIC Cubic   | 10     | 62.15                  | 21.30  | 12.51  | 71.66                     | 71.89  | 71.67  | 2.92               | 1.08   | 1.12   |
| SCReAM       | 10     | 0.21                   | 0.21   | 0.22   | 35.32                     | 35.34  | 35.32  | 0.00               | 0.00   | 0.00   |
| Sprout       | 10     | 10.71                  | 10.69  | 10.29  | 41.61                     | 41.95  | 42.12  | 0.01               | 0.00   | 0.00   |
| TaoVA-100x   | 10     | 51.15                  | 38.61  | 30.53  | 66.07                     | 69.80  | 71.28  | 12.86              | 22.73  | 19.53  |
| TCP Vegas    | 10     | 70.55                  | 22.39  | 23.28  | 46.72                     | 47.00  | 46.70  | 0.35               | 0.02   | 0.00   |
| Verus        | 10     | 39.21                  | 28.58  | 22.87  | 70.77                     | 71.73  | 71.90  | 28.71              | 39.23  | 41.10  |
| PCC-Vivace   | 10     | 64.27                  | 25.06  | 13.51  | 48.77                     | 52.33  | 50.58  | 0.07               | 0.08   | 0.01   |
| WebRTC media | 10     | 1.93                   | 1.25   | 0.43   | 36.11                     | 36.36  | 37.13  | 0.00               | 0.00   | 0.00   |

Run 1: Statistics of TCP BBR

Start at: 2018-08-01 07:50:35

End at: 2018-08-01 07:51:05

Local clock offset: 0.84 ms

Remote clock offset: 1.773 ms

# Below is generated by plot.py at 2018-08-01 11:35:45

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.16 Mbit/s

95th percentile per-packet one-way delay: 72.472 ms

Loss rate: 8.05%

-- Flow 1:

Average throughput: 67.92 Mbit/s

95th percentile per-packet one-way delay: 72.061 ms

Loss rate: 7.15%

-- Flow 2:

Average throughput: 28.25 Mbit/s

95th percentile per-packet one-way delay: 73.107 ms

Loss rate: 9.60%

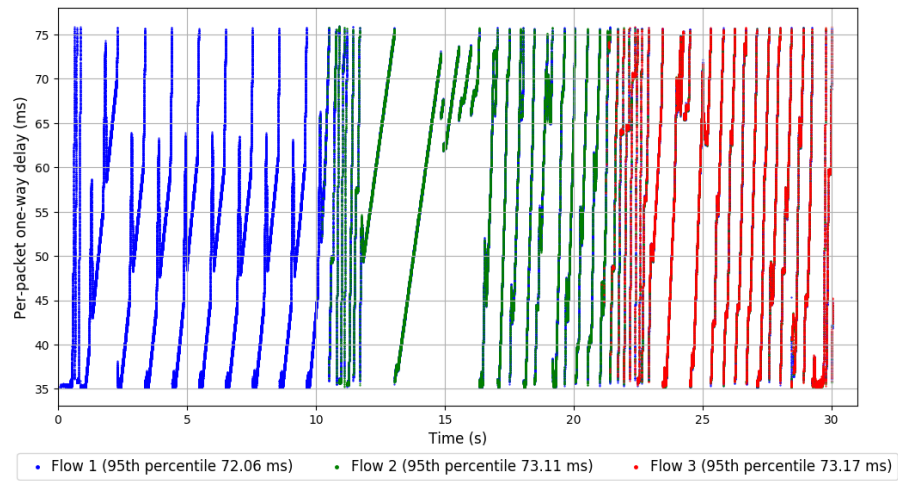
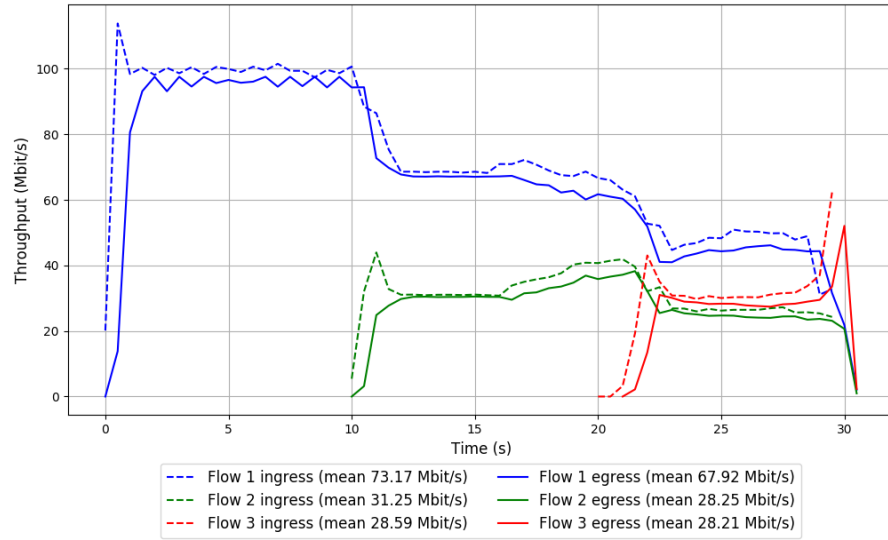
-- Flow 3:

Average throughput: 28.21 Mbit/s

95th percentile per-packet one-way delay: 73.173 ms

Loss rate: 11.53%

# Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-08-01 08:13:26

End at: 2018-08-01 08:13:56

Local clock offset: 0.462 ms

Remote clock offset: 3.966 ms

# Below is generated by plot.py at 2018-08-01 11:35:47

# Datalink statistics

-- Total of 3 flows:

Average throughput: 94.93 Mbit/s

95th percentile per-packet one-way delay: 71.734 ms

Loss rate: 9.94%

-- Flow 1:

Average throughput: 54.21 Mbit/s

95th percentile per-packet one-way delay: 71.025 ms

Loss rate: 8.24%

-- Flow 2:

Average throughput: 43.98 Mbit/s

95th percentile per-packet one-way delay: 72.010 ms

Loss rate: 11.85%

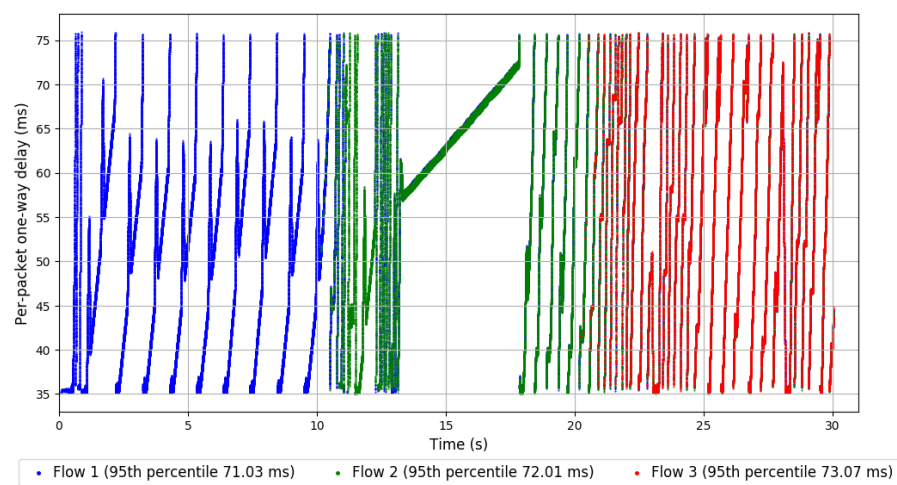
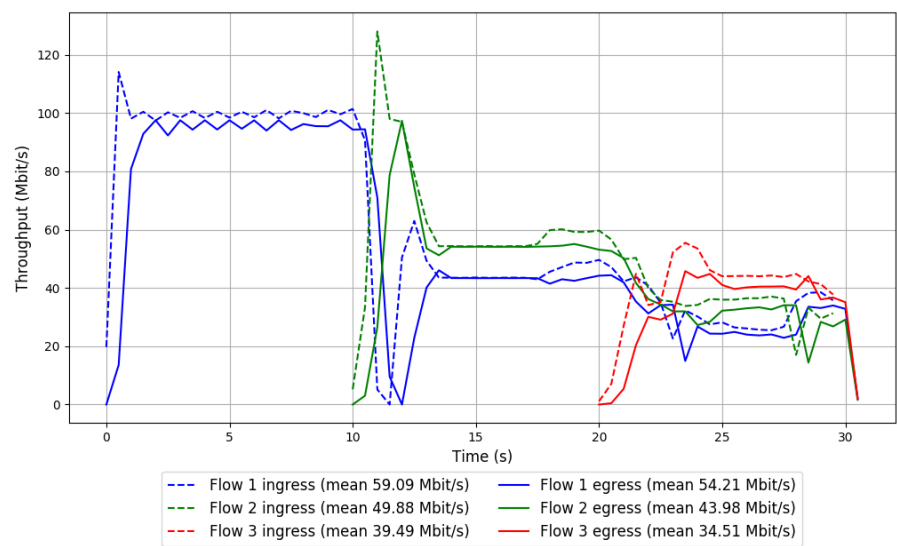
-- Flow 3:

Average throughput: 34.51 Mbit/s

95th percentile per-packet one-way delay: 73.068 ms

Loss rate: 12.80%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

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

End at: 2018-08-01 08:36:50

Local clock offset: 0.362 ms

Remote clock offset: 3.445 ms

# Below is generated by plot.py at 2018-08-01 11:35:47

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.27 Mbit/s

95th percentile per-packet one-way delay: 72.500 ms

Loss rate: 10.50%

-- Flow 1:

Average throughput: 58.89 Mbit/s

95th percentile per-packet one-way delay: 71.613 ms

Loss rate: 8.95%

-- Flow 2:

Average throughput: 43.49 Mbit/s

95th percentile per-packet one-way delay: 73.331 ms

Loss rate: 12.72%

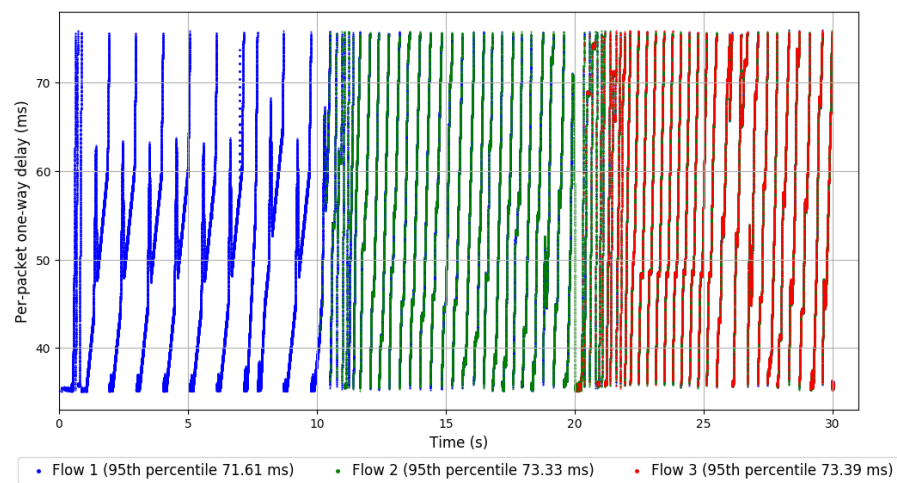
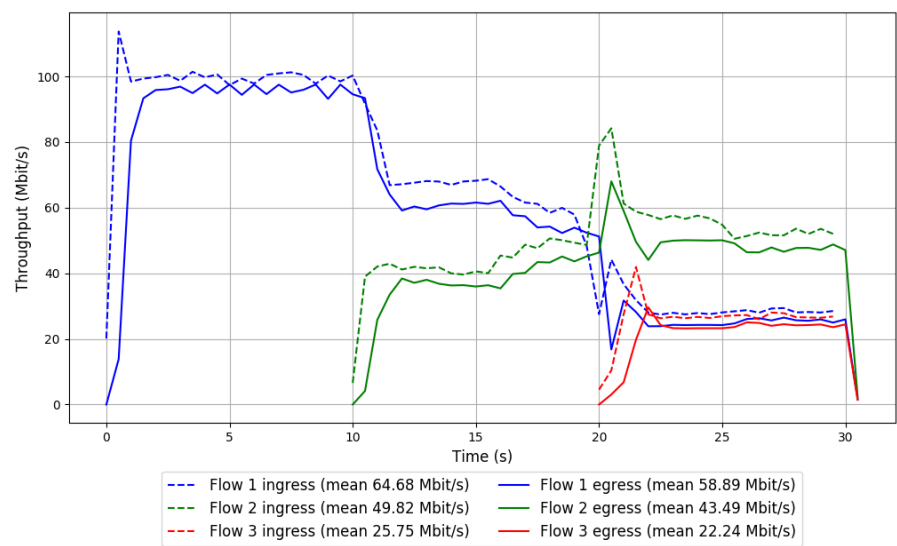
-- Flow 3:

Average throughput: 22.24 Mbit/s

95th percentile per-packet one-way delay: 73.386 ms

Loss rate: 13.64%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-08-01 08:59:17

End at: 2018-08-01 08:59:47

Local clock offset: -1.541 ms

Remote clock offset: 1.688 ms

# Below is generated by plot.py at 2018-08-01 11:35:47

# Datalink statistics

-- Total of 3 flows:

Average throughput: 94.75 Mbit/s

95th percentile per-packet one-way delay: 72.244 ms

Loss rate: 10.38%

-- Flow 1:

Average throughput: 61.73 Mbit/s

95th percentile per-packet one-way delay: 71.516 ms

Loss rate: 8.95%

-- Flow 2:

Average throughput: 35.44 Mbit/s

95th percentile per-packet one-way delay: 73.208 ms

Loss rate: 12.45%

-- Flow 3:

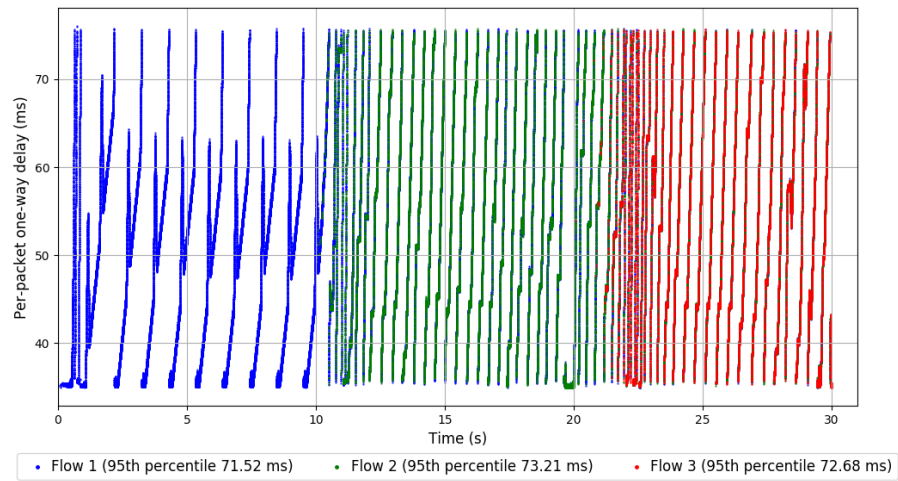
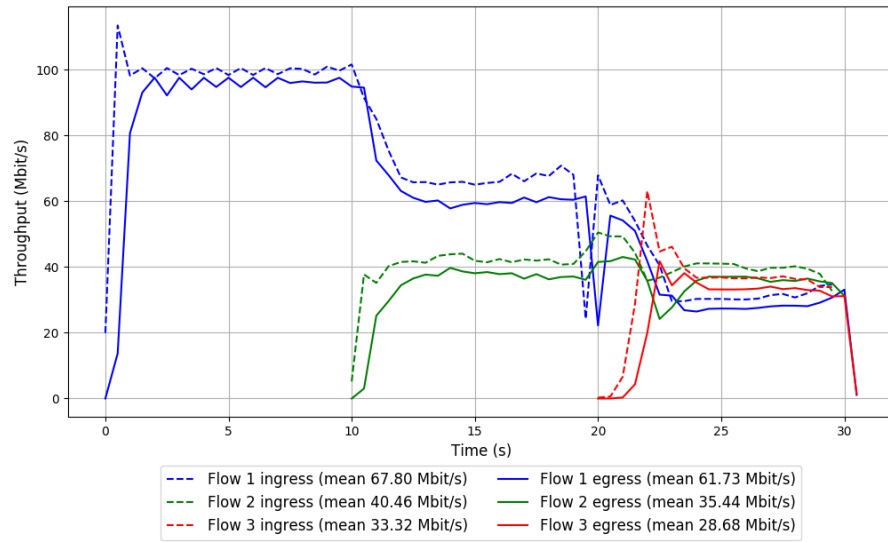
Average throughput: 28.68 Mbit/s

95th percentile per-packet one-way delay: 72.681 ms

Loss rate: 14.08%



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



Run 5: Statistics of TCP BBR

Start at: 2018-08-01 09:22:09

End at: 2018-08-01 09:22:39

Local clock offset: -3.781 ms

Remote clock offset: 2.178 ms

# Below is generated by plot.py at 2018-08-01 11:35:47

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.16 Mbit/s

95th percentile per-packet one-way delay: 72.487 ms

Loss rate: 9.42%

-- Flow 1:

Average throughput: 64.77 Mbit/s

95th percentile per-packet one-way delay: 71.884 ms

Loss rate: 8.27%

-- Flow 2:

Average throughput: 28.70 Mbit/s

95th percentile per-packet one-way delay: 73.299 ms

Loss rate: 11.67%

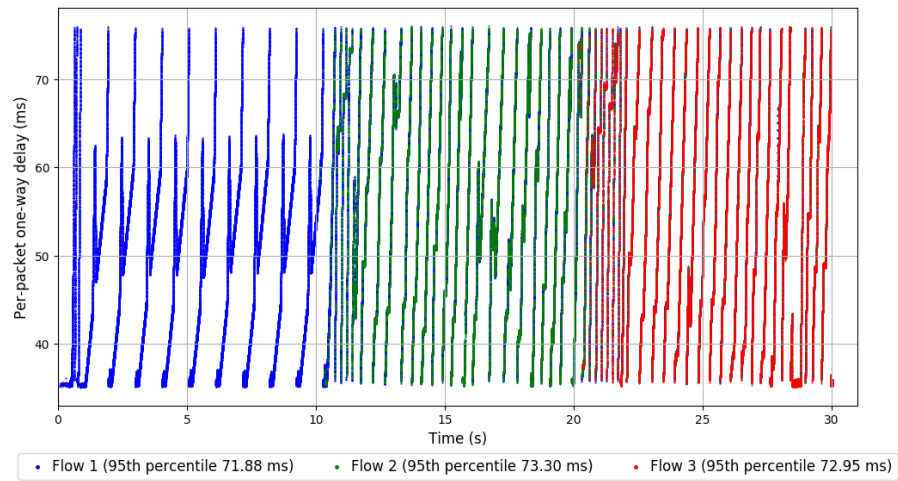
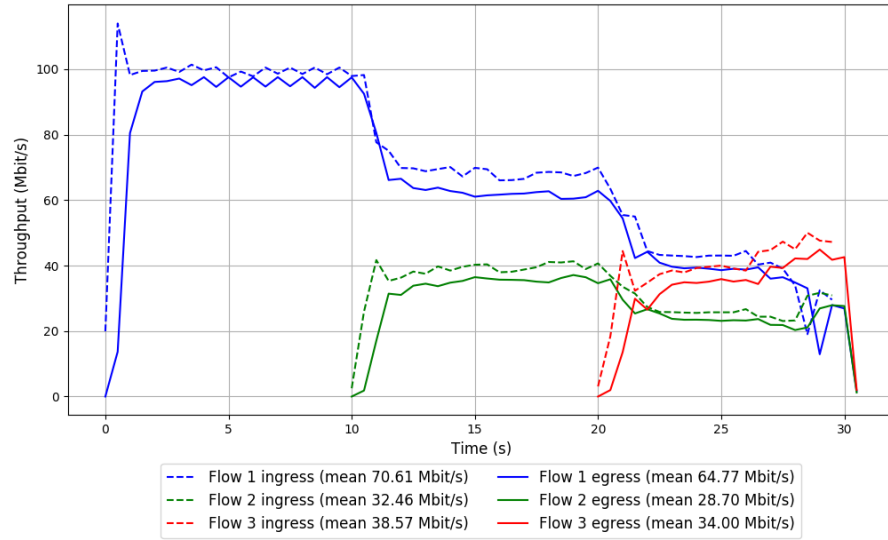
-- Flow 3:

Average throughput: 34.00 Mbit/s

95th percentile per-packet one-way delay: 72.946 ms

Loss rate: 11.95%

# Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-08-01 09:45:05

End at: 2018-08-01 09:45:35

Local clock offset: -3.275 ms

Remote clock offset: 2.073 ms

# Below is generated by plot.py at 2018-08-01 11:35:47

# Datalink statistics

-- Total of 3 flows:

Average throughput: 94.79 Mbit/s

95th percentile per-packet one-way delay: 71.878 ms

Loss rate: 8.20%

-- Flow 1:

Average throughput: 61.75 Mbit/s

95th percentile per-packet one-way delay: 71.289 ms

Loss rate: 7.44%

-- Flow 2:

Average throughput: 24.40 Mbit/s

95th percentile per-packet one-way delay: 72.096 ms

Loss rate: 9.44%

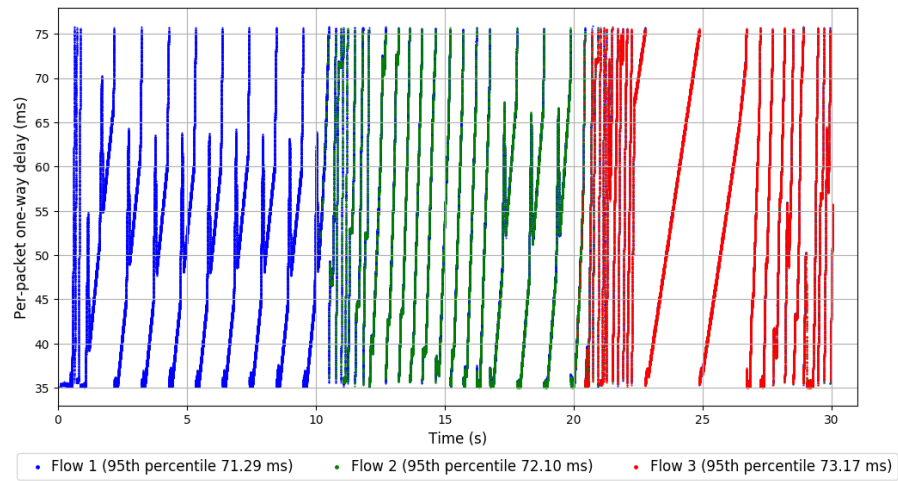
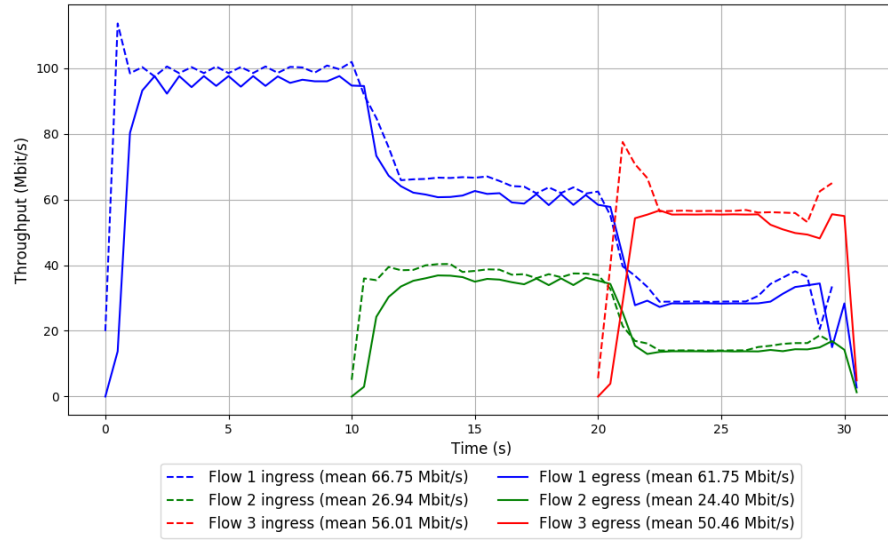
-- Flow 3:

Average throughput: 50.46 Mbit/s

95th percentile per-packet one-way delay: 73.171 ms

Loss rate: 9.74%

# Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

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

End at: 2018-08-01 10:08:40

Local clock offset: -0.046 ms

Remote clock offset: 1.929 ms

# Below is generated by plot.py at 2018-08-01 11:35:47

# Datalink statistics

-- Total of 3 flows:

Average throughput: 94.97 Mbit/s

95th percentile per-packet one-way delay: 72.967 ms

Loss rate: 8.69%

-- Flow 1:

Average throughput: 61.91 Mbit/s

95th percentile per-packet one-way delay: 72.555 ms

Loss rate: 7.75%

-- Flow 2:

Average throughput: 37.15 Mbit/s

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

Loss rate: 10.46%

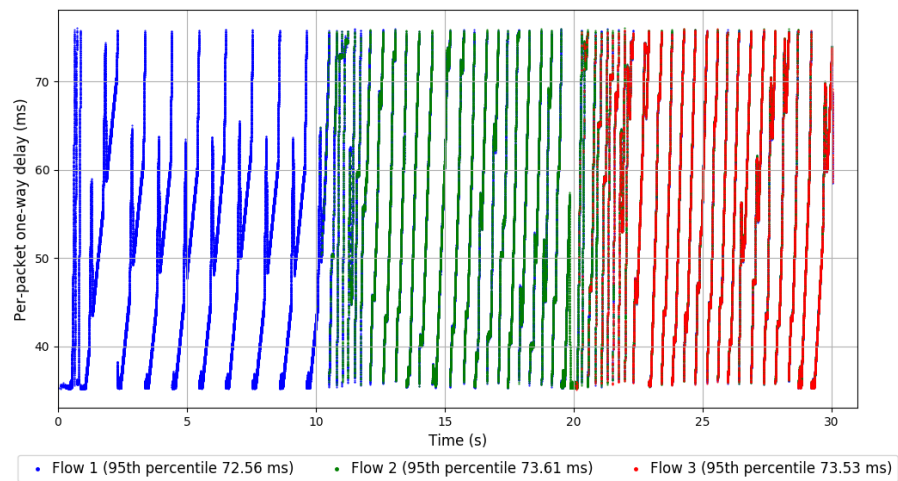
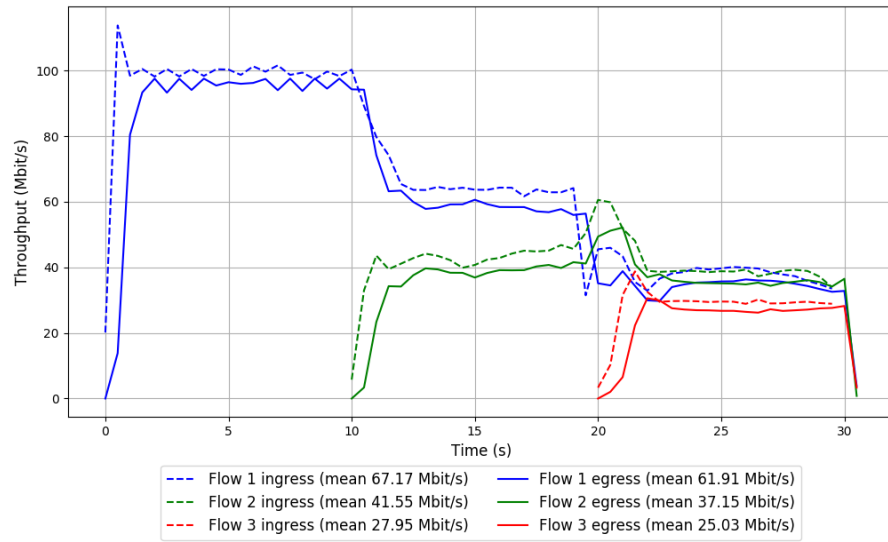
-- Flow 3:

Average throughput: 25.03 Mbit/s

95th percentile per-packet one-way delay: 73.535 ms

Loss rate: 10.22%

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



Run 8: Statistics of TCP BBR

Start at: 2018-08-01 10:31:08

End at: 2018-08-01 10:31:38

Local clock offset: 0.534 ms

Remote clock offset: 1.79 ms

# Below is generated by plot.py at 2018-08-01 11:35:47

# Datalink statistics

-- Total of 3 flows:

Average throughput: 94.99 Mbit/s

95th percentile per-packet one-way delay: 71.976 ms

Loss rate: 9.81%

-- Flow 1:

Average throughput: 61.73 Mbit/s

95th percentile per-packet one-way delay: 71.283 ms

Loss rate: 8.42%

-- Flow 2:

Average throughput: 35.72 Mbit/s

95th percentile per-packet one-way delay: 72.948 ms

Loss rate: 11.89%

-- Flow 3:

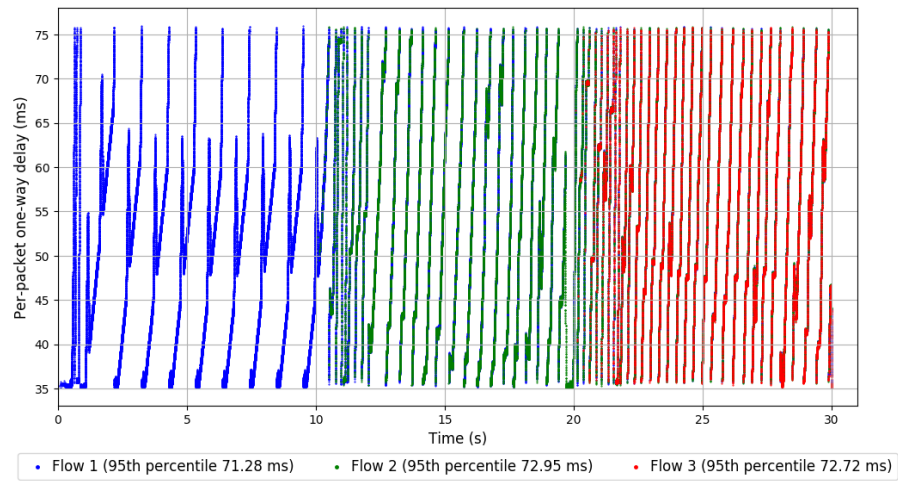
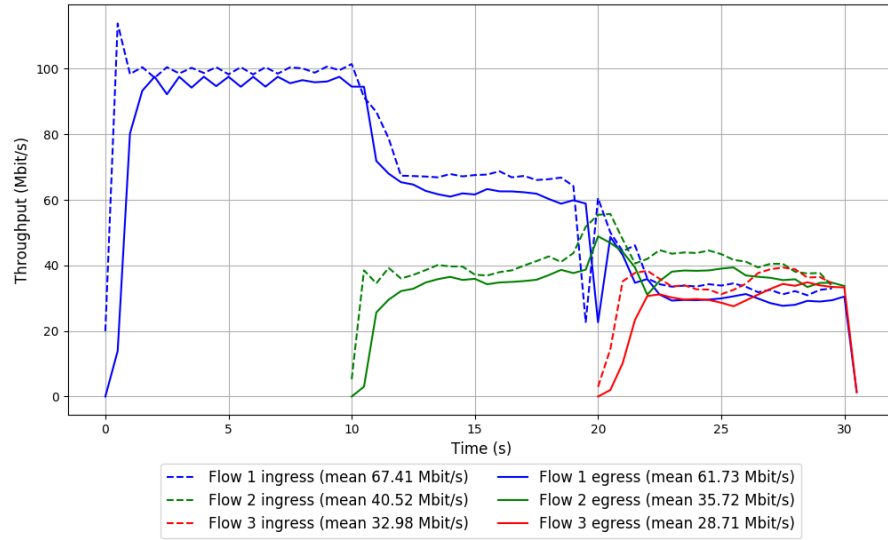
Average throughput: 28.71 Mbit/s

95th percentile per-packet one-way delay: 72.723 ms

Loss rate: 13.23%



# Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-08-01 10:54:02

End at: 2018-08-01 10:54:32

Local clock offset: 0.172 ms

Remote clock offset: 1.727 ms

# Below is generated by plot.py at 2018-08-01 11:36:41

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.05 Mbit/s

95th percentile per-packet one-way delay: 71.437 ms

Loss rate: 8.60%

-- Flow 1:

Average throughput: 68.93 Mbit/s

95th percentile per-packet one-way delay: 70.478 ms

Loss rate: 7.39%

-- Flow 2:

Average throughput: 18.60 Mbit/s

95th percentile per-packet one-way delay: 72.002 ms

Loss rate: 9.65%

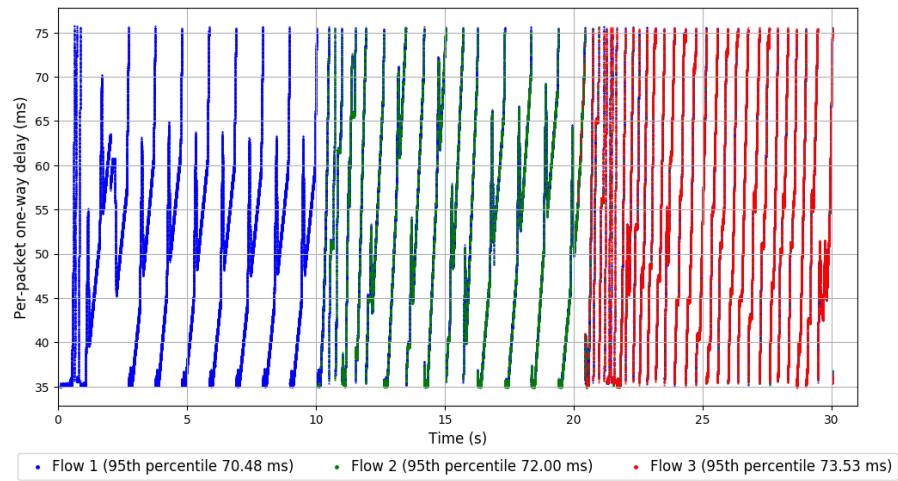
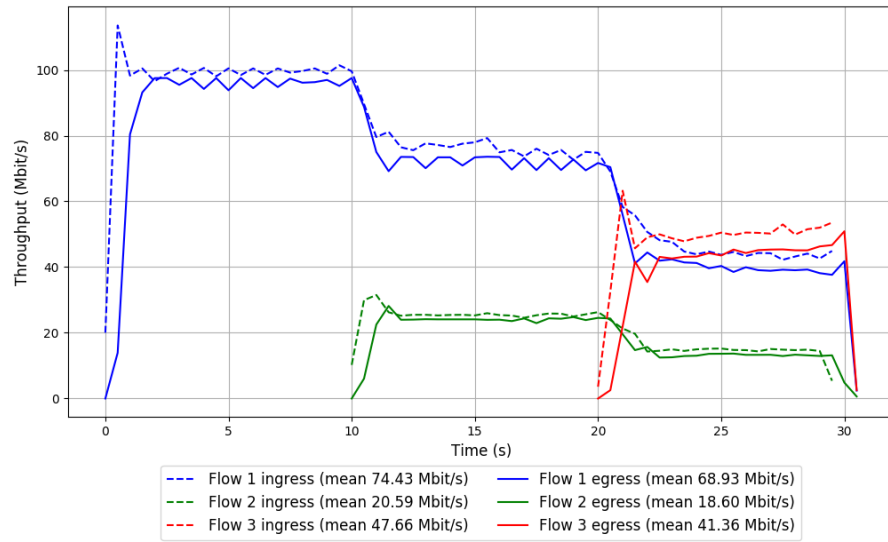
-- Flow 3:

Average throughput: 41.36 Mbit/s

95th percentile per-packet one-way delay: 73.525 ms

Loss rate: 13.36%

# Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-08-01 11:16:55

End at: 2018-08-01 11:17:25

Local clock offset: -3.257 ms

Remote clock offset: 1.852 ms

# Below is generated by plot.py at 2018-08-01 11:36:41

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.22 Mbit/s

95th percentile per-packet one-way delay: 71.040 ms

Loss rate: 9.06%

-- Flow 1:

Average throughput: 61.05 Mbit/s

95th percentile per-packet one-way delay: 69.905 ms

Loss rate: 7.71%

-- Flow 2:

Average throughput: 29.15 Mbit/s

95th percentile per-packet one-way delay: 72.334 ms

Loss rate: 10.45%

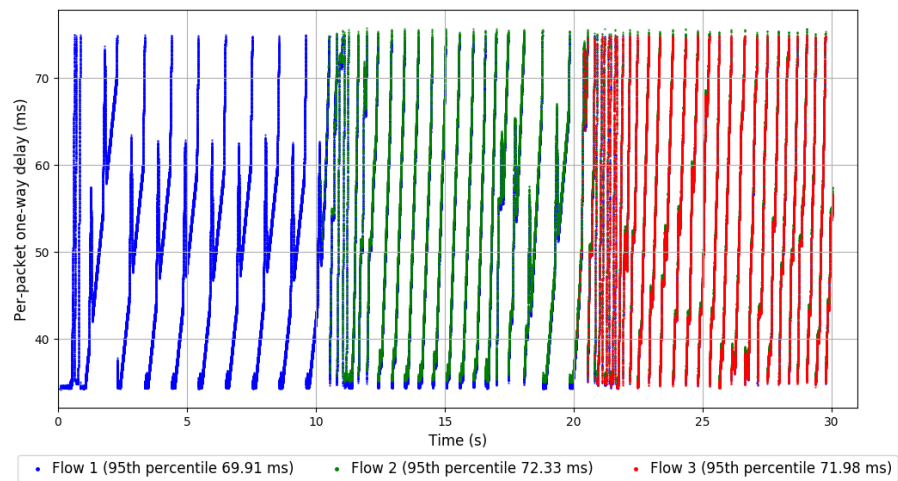
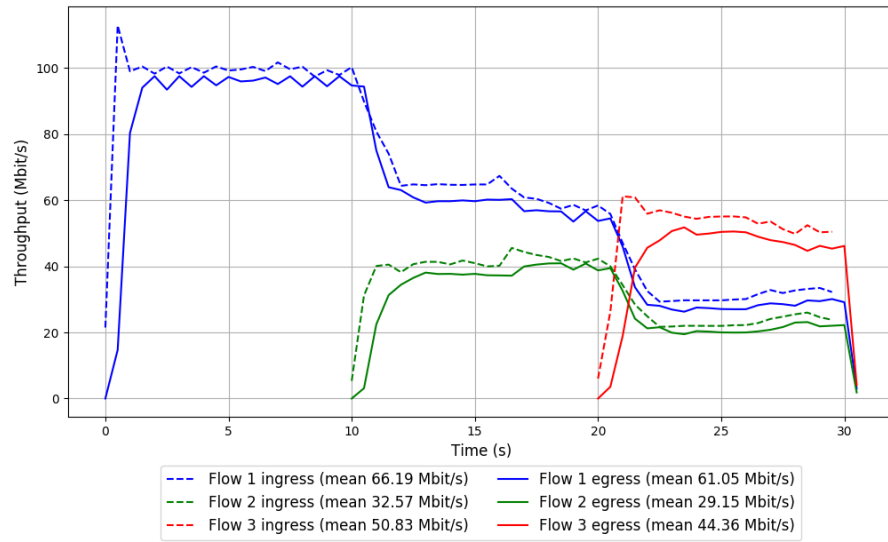
-- Flow 3:

Average throughput: 44.36 Mbit/s

95th percentile per-packet one-way delay: 71.982 ms

Loss rate: 12.58%

# Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2018-08-01 07:53:13

End at: 2018-08-01 07:53:43

Local clock offset: 0.893 ms

Remote clock offset: 1.831 ms

# Below is generated by plot.py at 2018-08-01 11:37:37

# Datalink statistics

-- Total of 3 flows:

Average throughput: 86.56 Mbit/s

95th percentile per-packet one-way delay: 46.062 ms

Loss rate: 0.51%

-- Flow 1:

Average throughput: 60.48 Mbit/s

95th percentile per-packet one-way delay: 46.891 ms

Loss rate: 0.73%

-- Flow 2:

Average throughput: 13.47 Mbit/s

95th percentile per-packet one-way delay: 44.498 ms

Loss rate: 0.00%

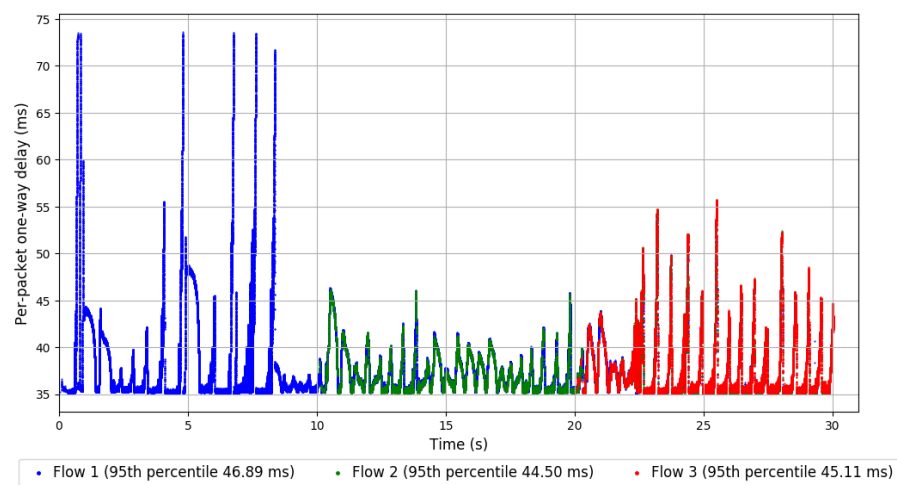
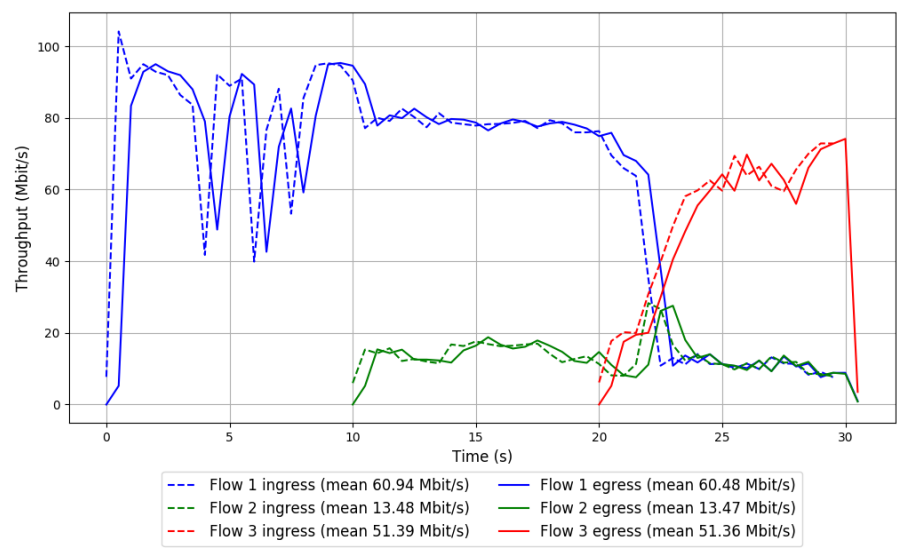
-- Flow 3:

Average throughput: 51.36 Mbit/s

95th percentile per-packet one-way delay: 45.113 ms

Loss rate: 0.00%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-08-01 08:16:05

End at: 2018-08-01 08:16:35

Local clock offset: 0.39 ms

Remote clock offset: 4.101 ms

# Below is generated by plot.py at 2018-08-01 11:37:38

# Datalink statistics

-- Total of 3 flows:

Average throughput: 87.26 Mbit/s

95th percentile per-packet one-way delay: 49.286 ms

Loss rate: 0.47%

-- Flow 1:

Average throughput: 68.55 Mbit/s

95th percentile per-packet one-way delay: 50.545 ms

Loss rate: 0.60%

-- Flow 2:

Average throughput: 22.53 Mbit/s

95th percentile per-packet one-way delay: 41.666 ms

Loss rate: 0.00%

-- Flow 3:

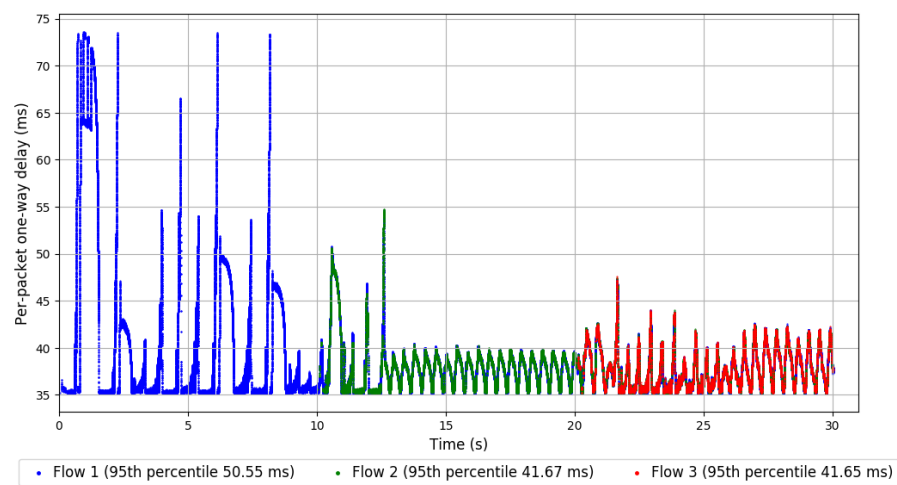
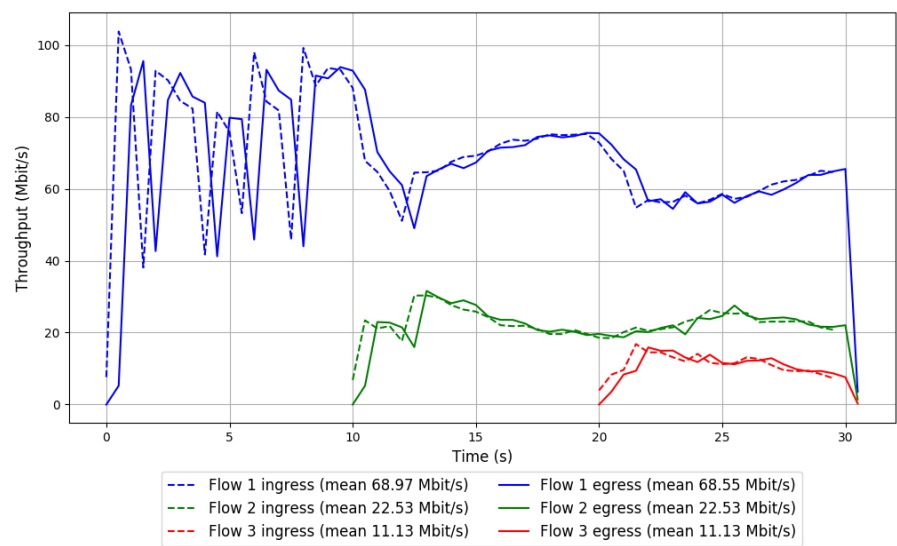
Average throughput: 11.13 Mbit/s

95th percentile per-packet one-way delay: 41.645 ms

Loss rate: 0.00%



Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-08-01 08:38:58

End at: 2018-08-01 08:39:28

Local clock offset: 0.351 ms

Remote clock offset: 2.997 ms

# Below is generated by plot.py at 2018-08-01 11:37:39

# Datalink statistics

-- Total of 3 flows:

Average throughput: 87.52 Mbit/s

95th percentile per-packet one-way delay: 44.631 ms

Loss rate: 0.41%

-- Flow 1:

Average throughput: 75.24 Mbit/s

95th percentile per-packet one-way delay: 44.655 ms

Loss rate: 0.46%

-- Flow 2:

Average throughput: 12.25 Mbit/s

95th percentile per-packet one-way delay: 43.201 ms

Loss rate: 0.06%

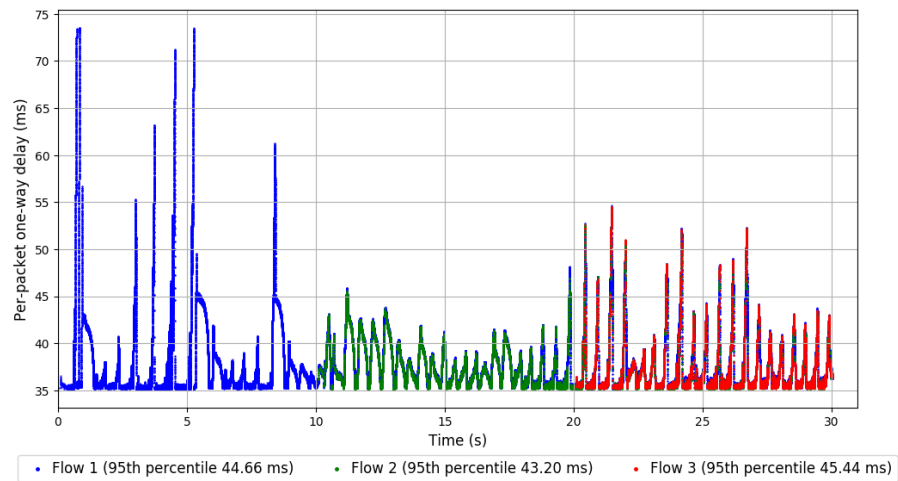
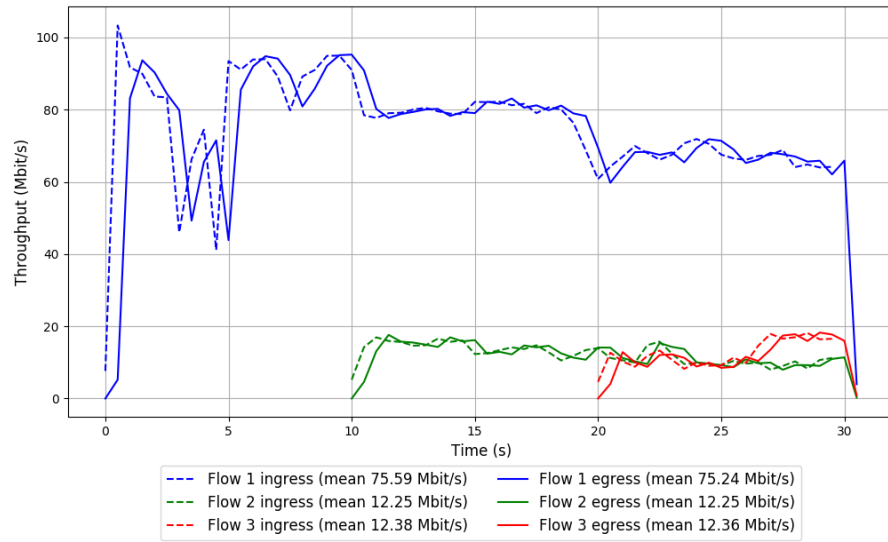
-- Flow 3:

Average throughput: 12.36 Mbit/s

95th percentile per-packet one-way delay: 45.440 ms

Loss rate: 0.10%

### Run 3: Report of Copa — Data Link

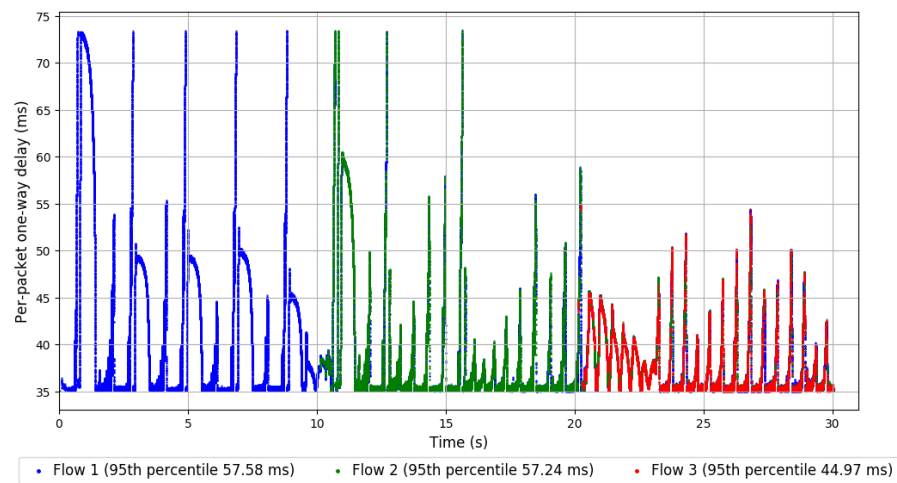
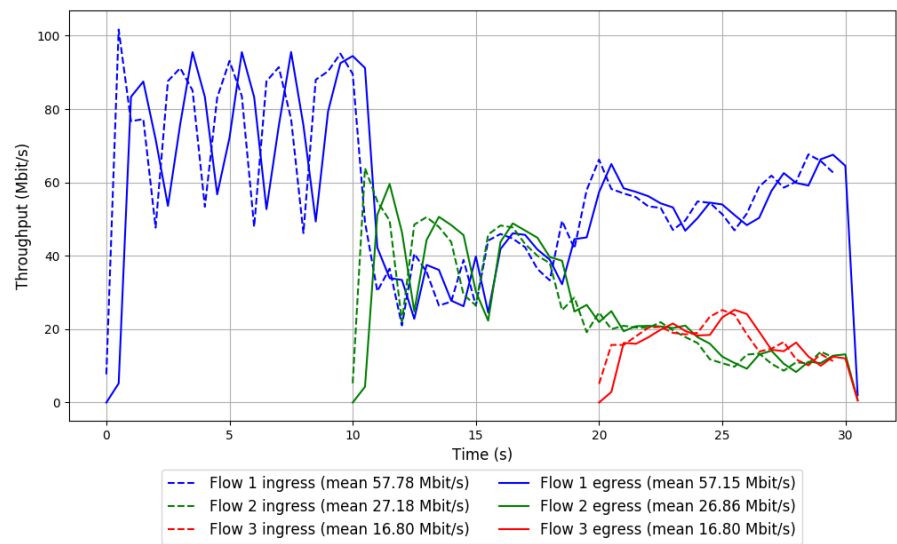


Run 4: Statistics of Copa

Start at: 2018-08-01 09:01:55  
End at: 2018-08-01 09:02:25  
Local clock offset: -2.094 ms  
Remote clock offset: 1.67 ms

# Below is generated by plot.py at 2018-08-01 11:37:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 80.62 Mbit/s  
95th percentile per-packet one-way delay: 56.576 ms  
Loss rate: 1.04%  
-- Flow 1:  
Average throughput: 57.15 Mbit/s  
95th percentile per-packet one-way delay: 57.581 ms  
Loss rate: 1.09%  
-- Flow 2:  
Average throughput: 26.86 Mbit/s  
95th percentile per-packet one-way delay: 57.240 ms  
Loss rate: 1.20%  
-- Flow 3:  
Average throughput: 16.80 Mbit/s  
95th percentile per-packet one-way delay: 44.974 ms  
Loss rate: 0.00%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-08-01 09:24:47

End at: 2018-08-01 09:25:17

Local clock offset: -3.635 ms

Remote clock offset: 2.059 ms

# Below is generated by plot.py at 2018-08-01 11:37:39

# Datalink statistics

-- Total of 3 flows:

Average throughput: 86.30 Mbit/s

95th percentile per-packet one-way delay: 50.211 ms

Loss rate: 0.71%

-- Flow 1:

Average throughput: 53.86 Mbit/s

95th percentile per-packet one-way delay: 56.222 ms

Loss rate: 1.09%

-- Flow 2:

Average throughput: 40.50 Mbit/s

95th percentile per-packet one-way delay: 40.053 ms

Loss rate: 0.10%

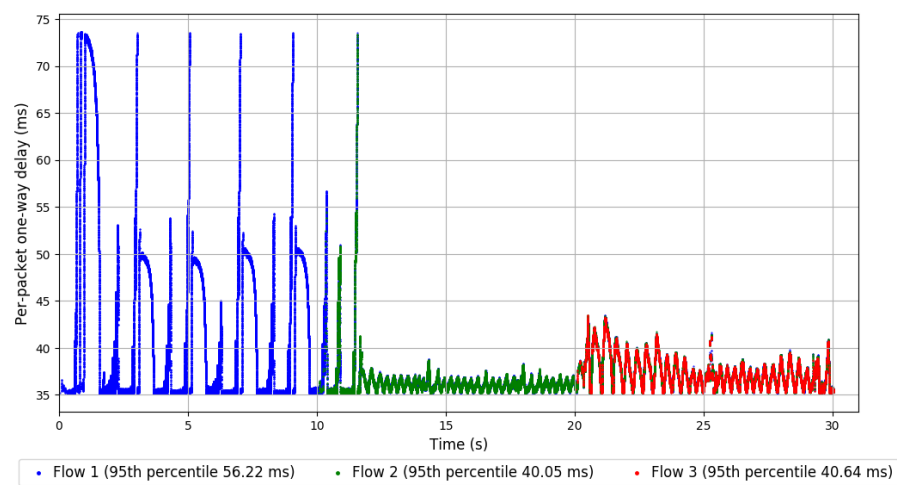
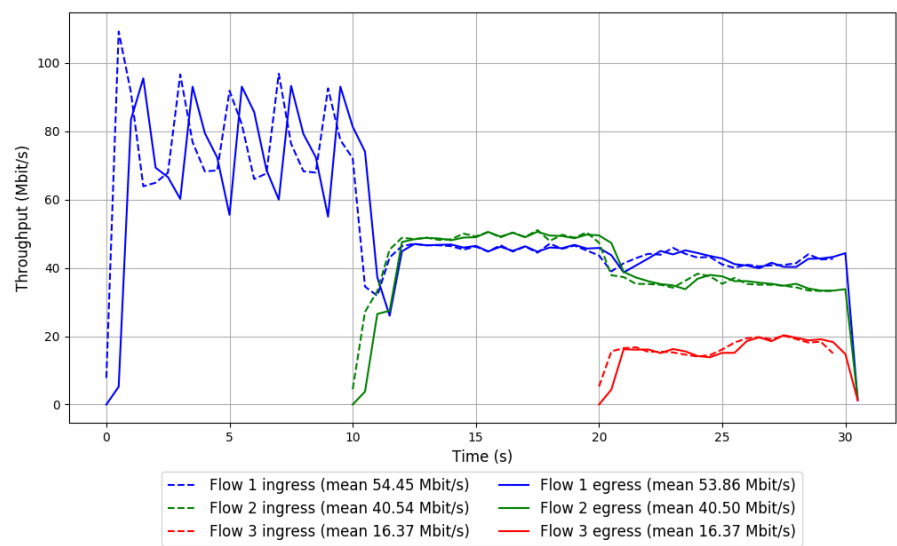
-- Flow 3:

Average throughput: 16.37 Mbit/s

95th percentile per-packet one-way delay: 40.638 ms

Loss rate: 0.00%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-08-01 09:47:43

End at: 2018-08-01 09:48:13

Local clock offset: -3.395 ms

Remote clock offset: 2.127 ms

# Below is generated by plot.py at 2018-08-01 11:37:39

# Datalink statistics

-- Total of 3 flows:

Average throughput: 81.83 Mbit/s

95th percentile per-packet one-way delay: 49.020 ms

Loss rate: 1.04%

-- Flow 1:

Average throughput: 60.46 Mbit/s

95th percentile per-packet one-way delay: 46.607 ms

Loss rate: 1.20%

-- Flow 2:

Average throughput: 20.02 Mbit/s

95th percentile per-packet one-way delay: 52.573 ms

Loss rate: 0.70%

-- Flow 3:

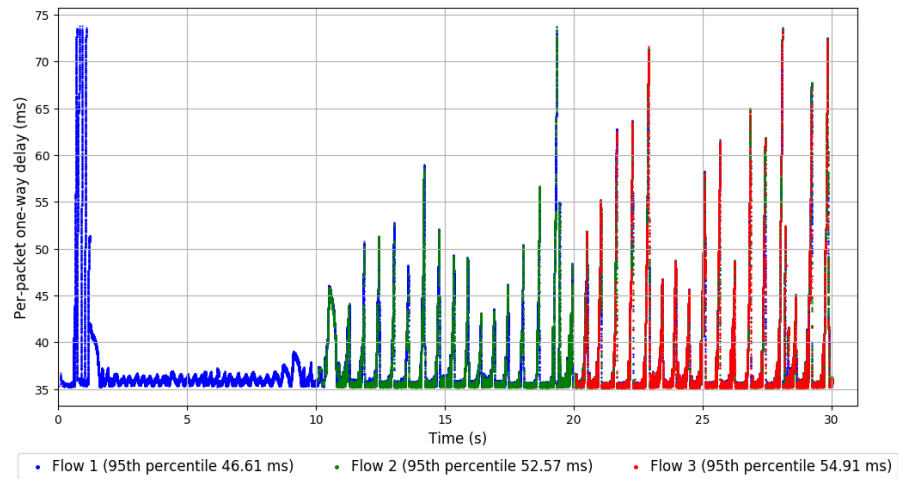
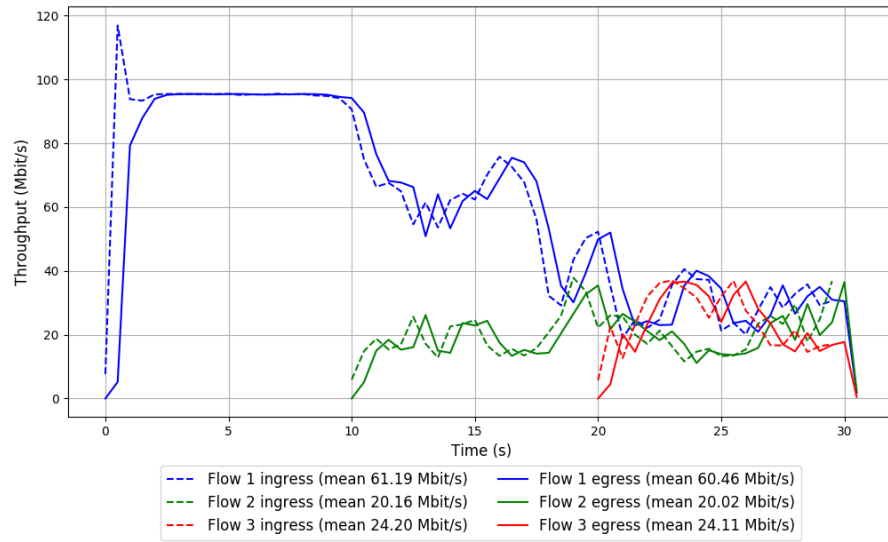
Average throughput: 24.11 Mbit/s

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

Loss rate: 0.38%



## Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-08-01 10:10:49

End at: 2018-08-01 10:11:19

Local clock offset: 0.176 ms

Remote clock offset: 1.885 ms

# Below is generated by plot.py at 2018-08-01 11:38:47

# Datalink statistics

-- Total of 3 flows:

Average throughput: 85.72 Mbit/s

95th percentile per-packet one-way delay: 50.542 ms

Loss rate: 0.53%

-- Flow 1:

Average throughput: 63.84 Mbit/s

95th percentile per-packet one-way delay: 51.567 ms

Loss rate: 0.71%

-- Flow 2:

Average throughput: 23.83 Mbit/s

95th percentile per-packet one-way delay: 41.530 ms

Loss rate: 0.00%

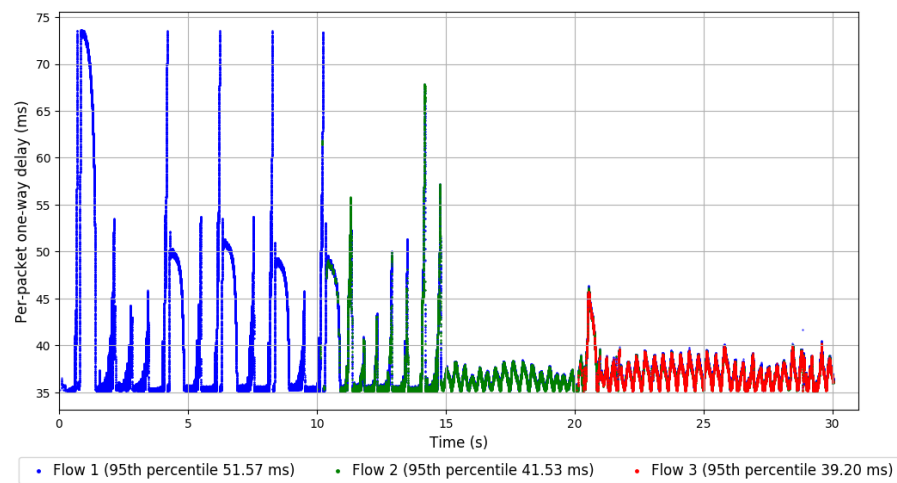
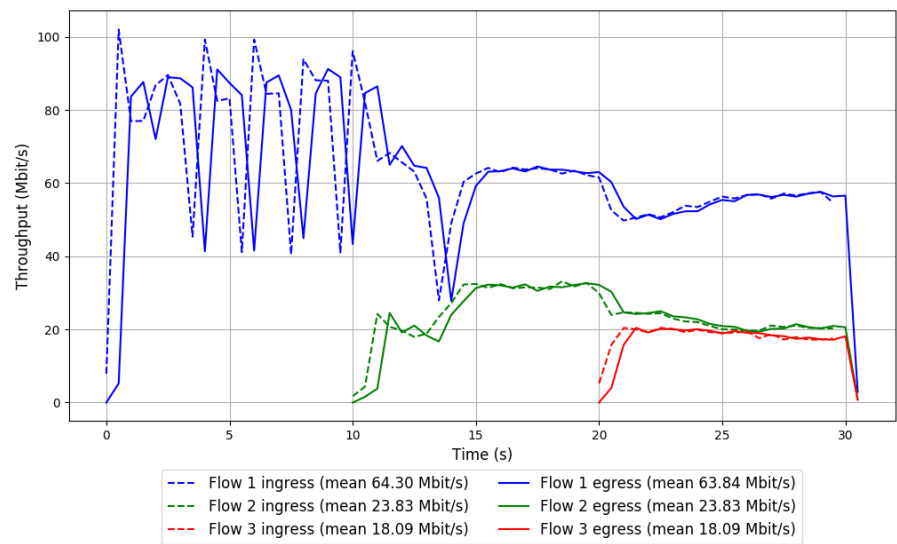
-- Flow 3:

Average throughput: 18.09 Mbit/s

95th percentile per-packet one-way delay: 39.203 ms

Loss rate: 0.00%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-08-01 10:33:46

End at: 2018-08-01 10:34:16

Local clock offset: 0.458 ms

Remote clock offset: 1.735 ms

# Below is generated by plot.py at 2018-08-01 11:38:47

# Datalink statistics

-- Total of 3 flows:

Average throughput: 83.90 Mbit/s

95th percentile per-packet one-way delay: 54.306 ms

Loss rate: 0.84%

-- Flow 1:

Average throughput: 71.41 Mbit/s

95th percentile per-packet one-way delay: 55.185 ms

Loss rate: 0.98%

-- Flow 2:

Average throughput: 12.34 Mbit/s

95th percentile per-packet one-way delay: 45.767 ms

Loss rate: 0.05%

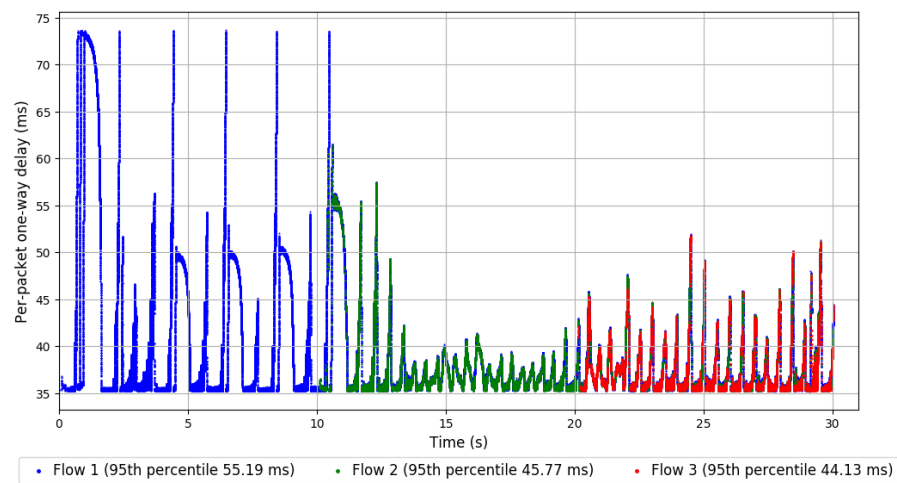
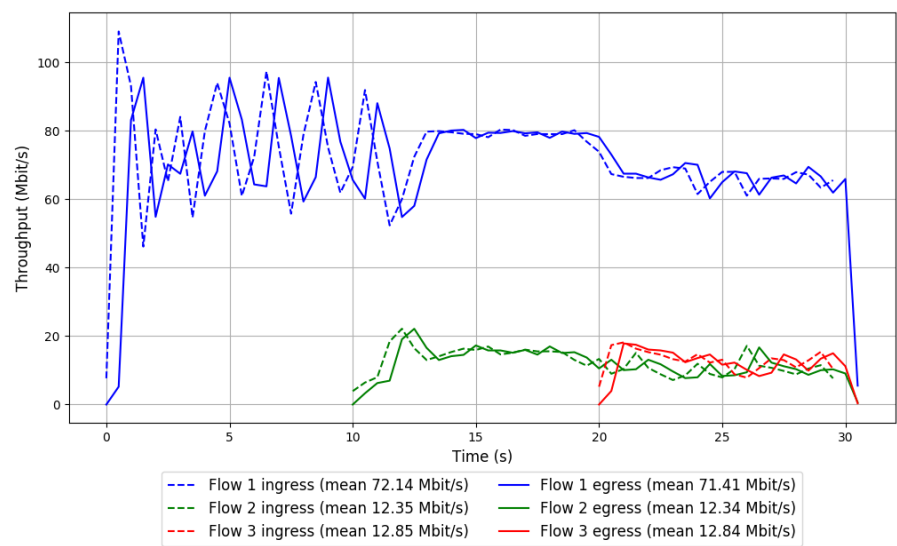
-- Flow 3:

Average throughput: 12.84 Mbit/s

95th percentile per-packet one-way delay: 44.135 ms

Loss rate: 0.00%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-08-01 10:56:40

End at: 2018-08-01 10:57:10

Local clock offset: -0.748 ms

Remote clock offset: 1.635 ms

# Below is generated by plot.py at 2018-08-01 11:39:22

# Datalink statistics

-- Total of 3 flows:

Average throughput: 85.42 Mbit/s

95th percentile per-packet one-way delay: 51.617 ms

Loss rate: 0.89%

-- Flow 1:

Average throughput: 51.21 Mbit/s

95th percentile per-packet one-way delay: 51.721 ms

Loss rate: 1.18%

-- Flow 2:

Average throughput: 15.92 Mbit/s

95th percentile per-packet one-way delay: 53.247 ms

Loss rate: 1.41%

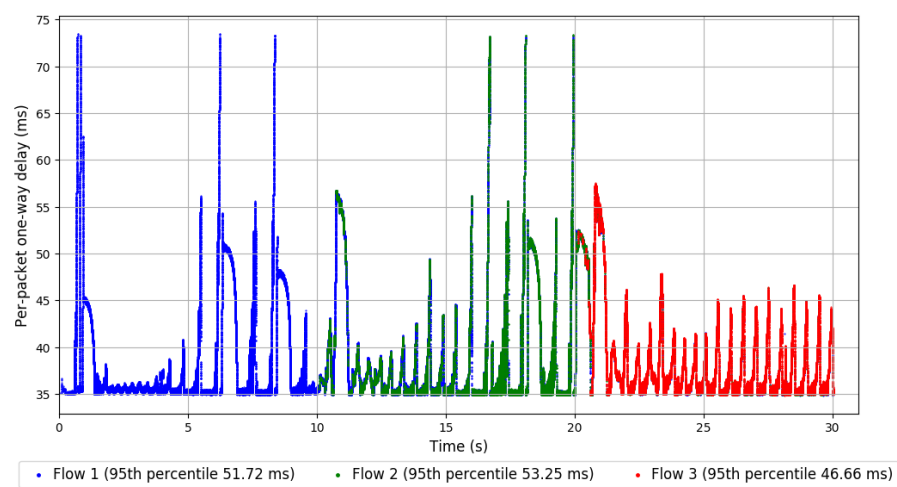
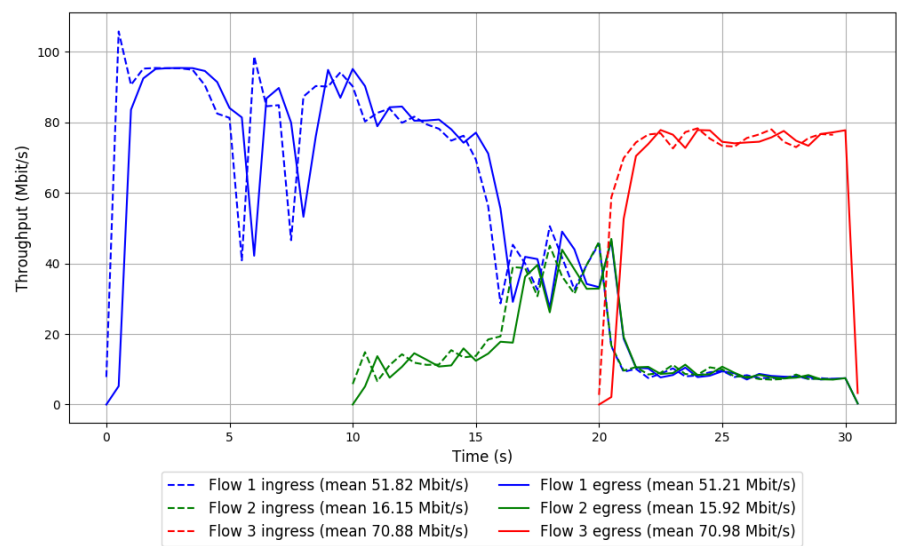
-- Flow 3:

Average throughput: 70.98 Mbit/s

95th percentile per-packet one-way delay: 46.661 ms

Loss rate: 0.00%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-08-01 11:19:34

End at: 2018-08-01 11:20:04

Local clock offset: -3.38 ms

Remote clock offset: 1.97 ms

# Below is generated by plot.py at 2018-08-01 11:39:24

# Datalink statistics

-- Total of 3 flows:

Average throughput: 85.98 Mbit/s

95th percentile per-packet one-way delay: 50.516 ms

Loss rate: 0.48%

-- Flow 1:

Average throughput: 74.79 Mbit/s

95th percentile per-packet one-way delay: 51.269 ms

Loss rate: 0.55%

-- Flow 2:

Average throughput: 10.71 Mbit/s

95th percentile per-packet one-way delay: 42.266 ms

Loss rate: 0.01%

-- Flow 3:

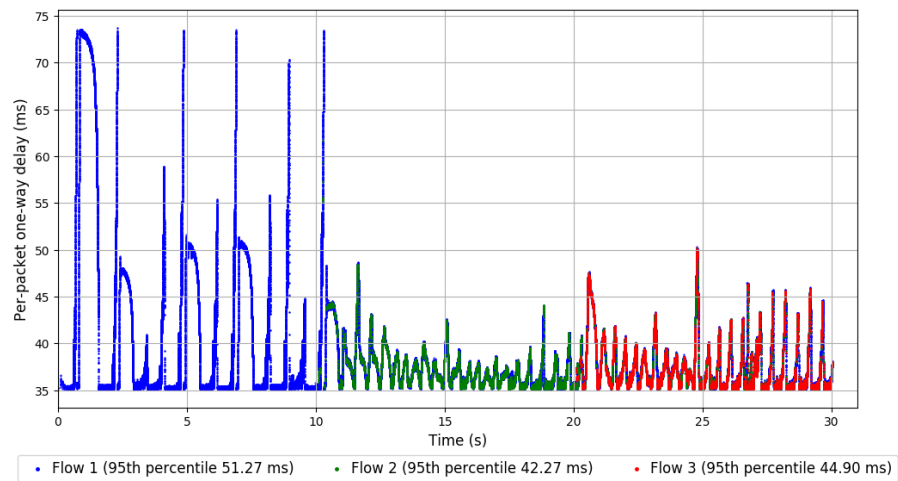
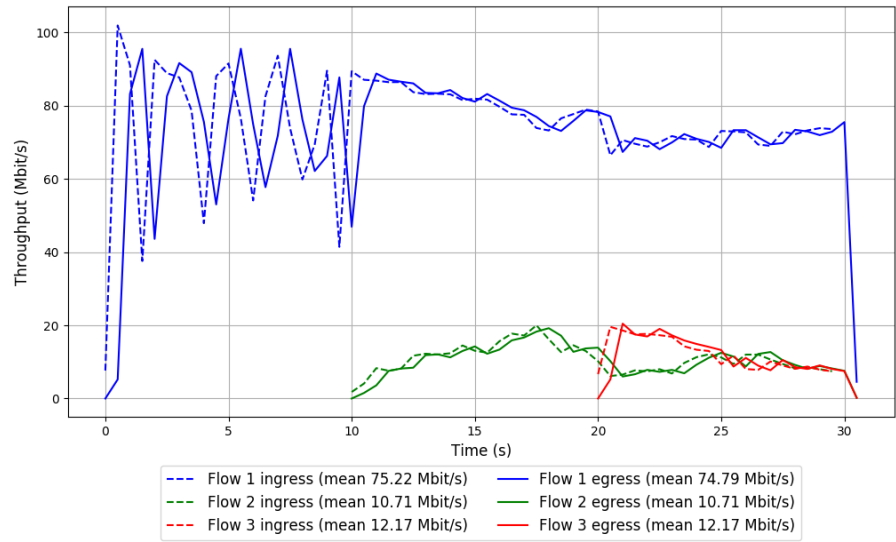
Average throughput: 12.17 Mbit/s

95th percentile per-packet one-way delay: 44.904 ms

Loss rate: 0.00%



## Run 10: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-08-01 07:46:30

End at: 2018-08-01 07:47:00

Local clock offset: 0.705 ms

Remote clock offset: 1.713 ms

# Below is generated by plot.py at 2018-08-01 11:39:24

# Datalink statistics

-- Total of 3 flows:

Average throughput: 96.22 Mbit/s

95th percentile per-packet one-way delay: 72.997 ms

Loss rate: 0.86%

-- Flow 1:

Average throughput: 71.66 Mbit/s

95th percentile per-packet one-way delay: 73.054 ms

Loss rate: 0.96%

-- Flow 2:

Average throughput: 25.47 Mbit/s

95th percentile per-packet one-way delay: 72.966 ms

Loss rate: 0.28%

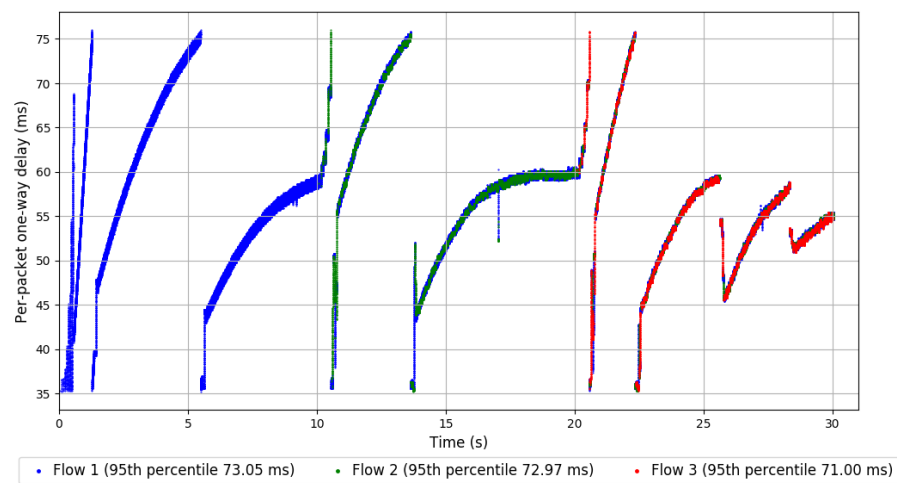
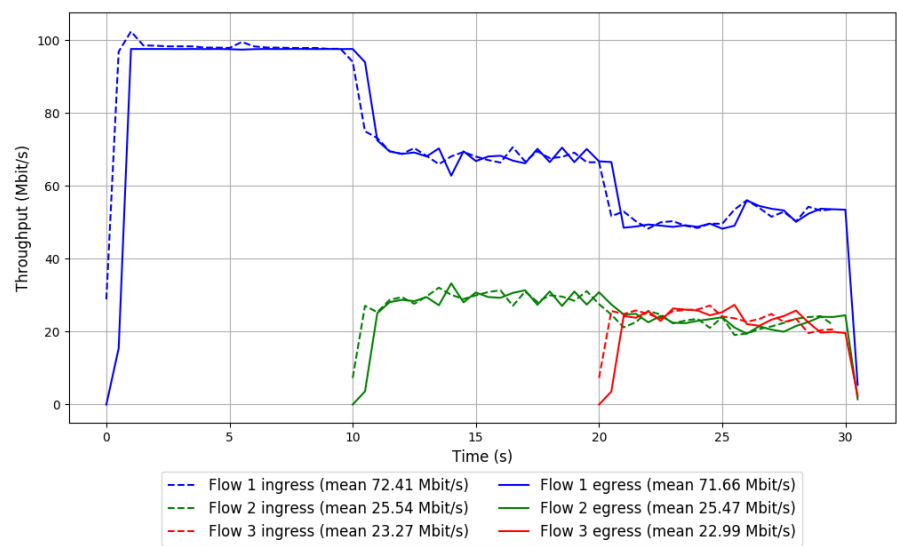
-- Flow 3:

Average throughput: 22.99 Mbit/s

95th percentile per-packet one-way delay: 70.996 ms

Loss rate: 1.25%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-08-01 08:09:21

End at: 2018-08-01 08:09:51

Local clock offset: 0.464 ms

Remote clock offset: 3.649 ms

# Below is generated by plot.py at 2018-08-01 11:39:24

# Datalink statistics

-- Total of 3 flows:

Average throughput: 96.23 Mbit/s

95th percentile per-packet one-way delay: 72.852 ms

Loss rate: 0.83%

-- Flow 1:

Average throughput: 70.13 Mbit/s

95th percentile per-packet one-way delay: 73.064 ms

Loss rate: 0.89%

-- Flow 2:

Average throughput: 27.80 Mbit/s

95th percentile per-packet one-way delay: 72.380 ms

Loss rate: 0.54%

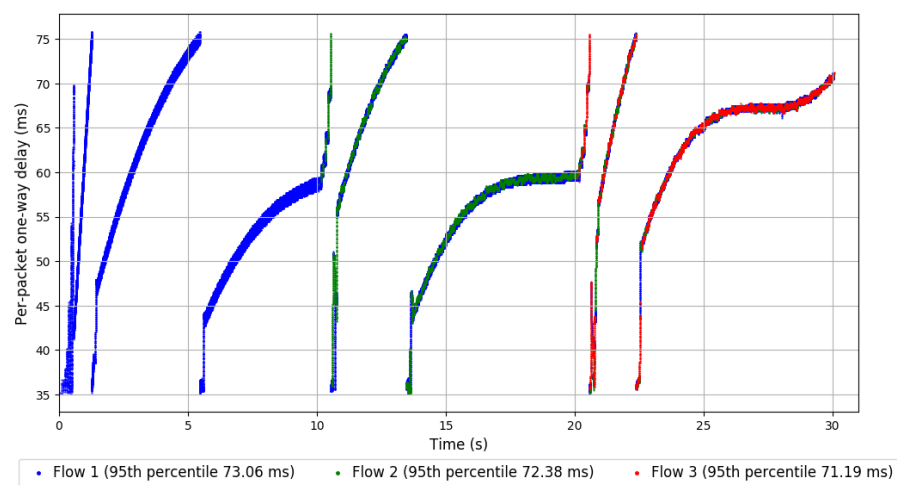
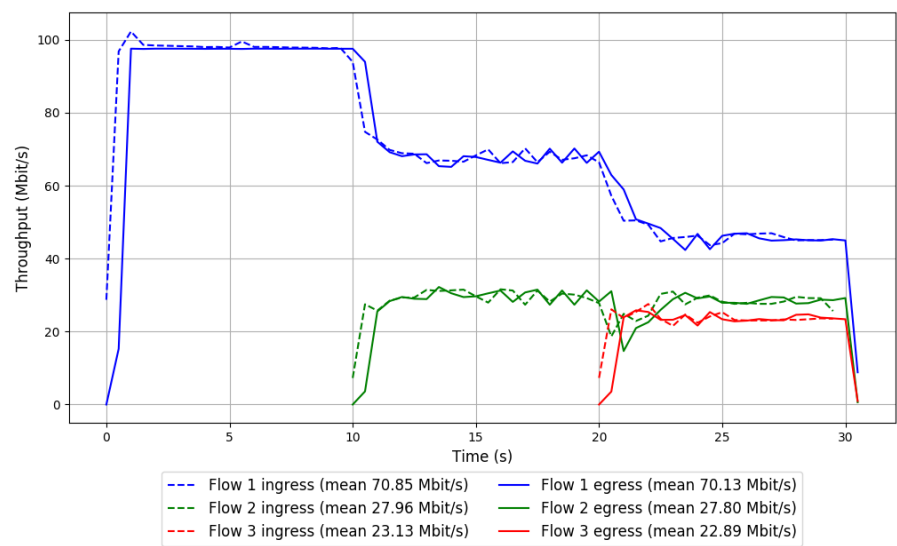
-- Flow 3:

Average throughput: 22.89 Mbit/s

95th percentile per-packet one-way delay: 71.188 ms

Loss rate: 0.95%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-08-01 08:32:14

End at: 2018-08-01 08:32:44

Local clock offset: 0.287 ms

Remote clock offset: 4.461 ms

# Below is generated by plot.py at 2018-08-01 11:39:24

# Datalink statistics

-- Total of 3 flows:

Average throughput: 96.19 Mbit/s

95th percentile per-packet one-way delay: 72.895 ms

Loss rate: 0.83%

-- Flow 1:

Average throughput: 71.20 Mbit/s

95th percentile per-packet one-way delay: 73.095 ms

Loss rate: 0.76%

-- Flow 2:

Average throughput: 24.95 Mbit/s

95th percentile per-packet one-way delay: 72.368 ms

Loss rate: 1.35%

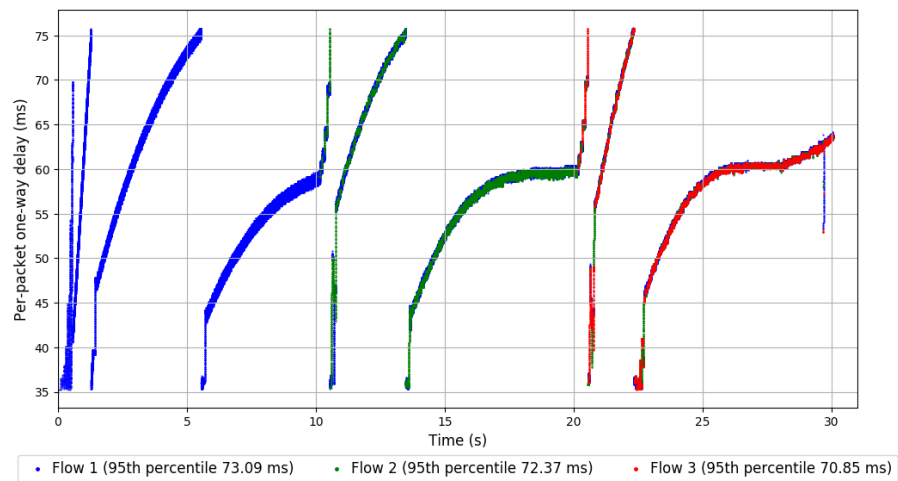
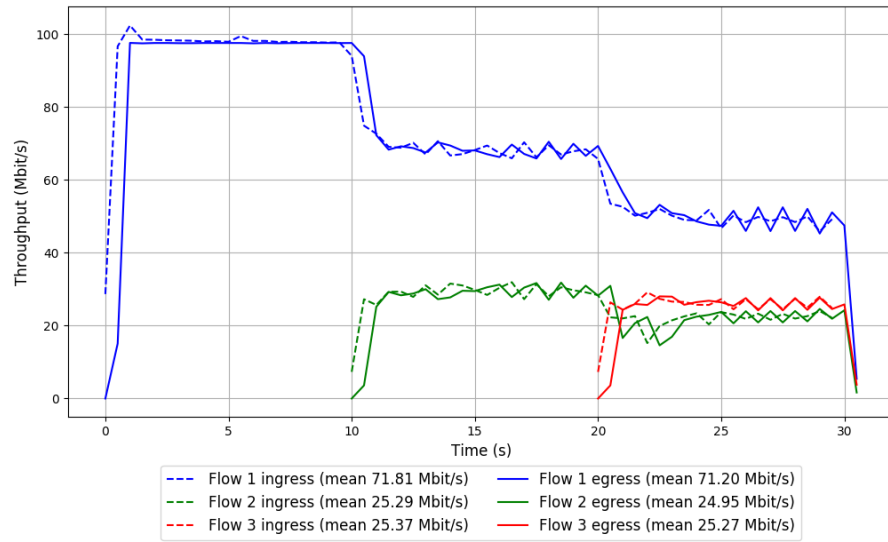
-- Flow 3:

Average throughput: 25.27 Mbit/s

95th percentile per-packet one-way delay: 70.849 ms

Loss rate: 0.37%

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



Run 4: Statistics of TCP Cubic

Start at: 2018-08-01 08:55:10

End at: 2018-08-01 08:55:40

Local clock offset: -0.492 ms

Remote clock offset: 1.791 ms

# Below is generated by plot.py at 2018-08-01 11:39:24

# Datalink statistics

-- Total of 3 flows:

Average throughput: 96.20 Mbit/s

95th percentile per-packet one-way delay: 72.715 ms

Loss rate: 0.82%

-- Flow 1:

Average throughput: 71.10 Mbit/s

95th percentile per-packet one-way delay: 72.863 ms

Loss rate: 0.99%

-- Flow 2:

Average throughput: 25.37 Mbit/s

95th percentile per-packet one-way delay: 72.833 ms

Loss rate: 0.35%

-- Flow 3:

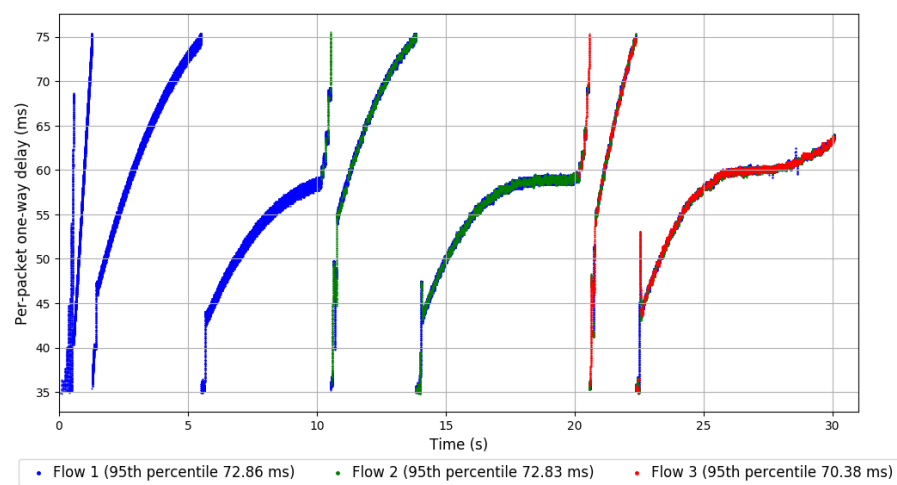
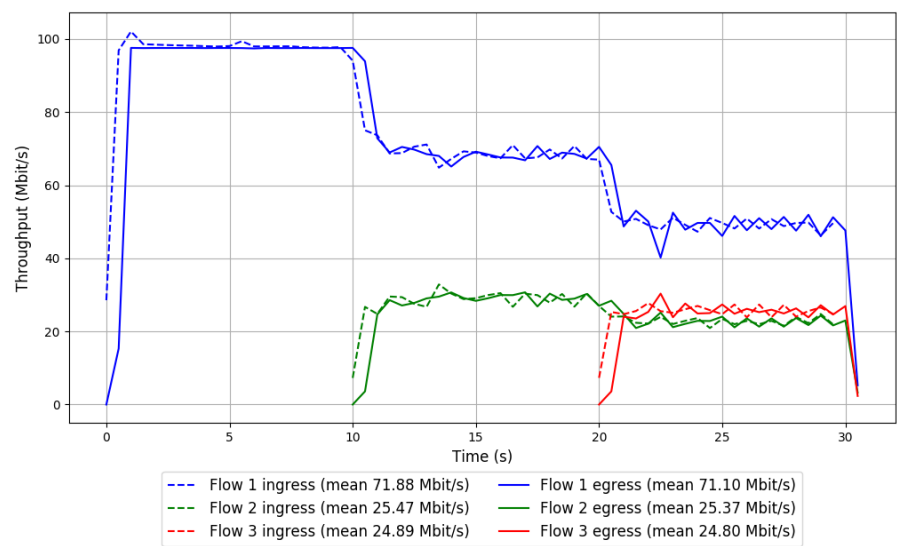
Average throughput: 24.80 Mbit/s

95th percentile per-packet one-way delay: 70.376 ms

Loss rate: 0.31%



Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-08-01 09:18:03

End at: 2018-08-01 09:18:33

Local clock offset: -3.529 ms

Remote clock offset: 2.183 ms

# Below is generated by plot.py at 2018-08-01 11:39:56

# Datalink statistics

-- Total of 3 flows:

Average throughput: 96.20 Mbit/s

95th percentile per-packet one-way delay: 73.067 ms

Loss rate: 0.83%

-- Flow 1:

Average throughput: 71.14 Mbit/s

95th percentile per-packet one-way delay: 73.275 ms

Loss rate: 0.97%

-- Flow 2:

Average throughput: 25.15 Mbit/s

95th percentile per-packet one-way delay: 73.131 ms

Loss rate: 0.53%

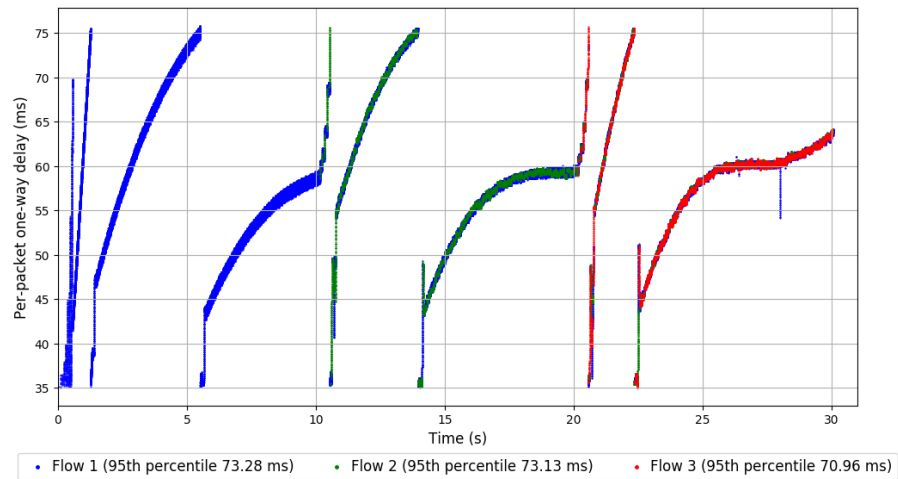
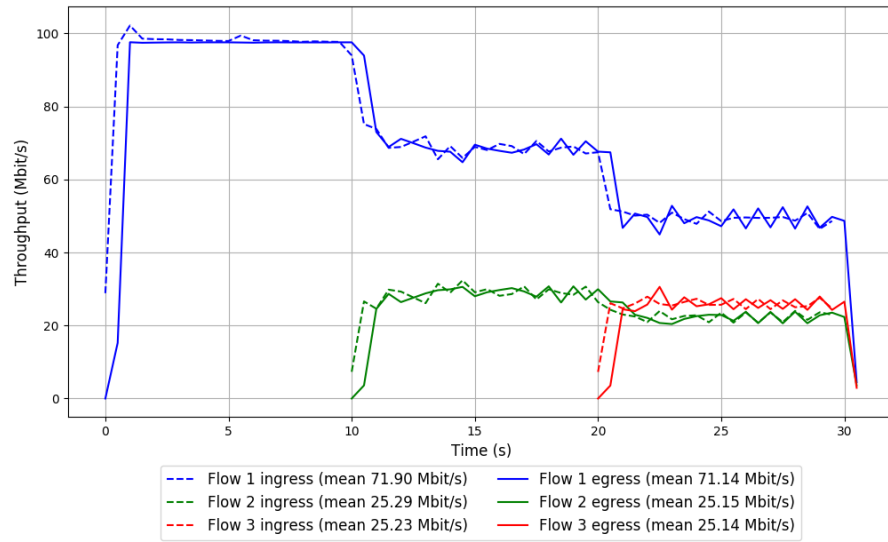
-- Flow 3:

Average throughput: 25.14 Mbit/s

95th percentile per-packet one-way delay: 70.956 ms

Loss rate: 0.29%

# Run 5: Report of TCP Cubic — Data Link

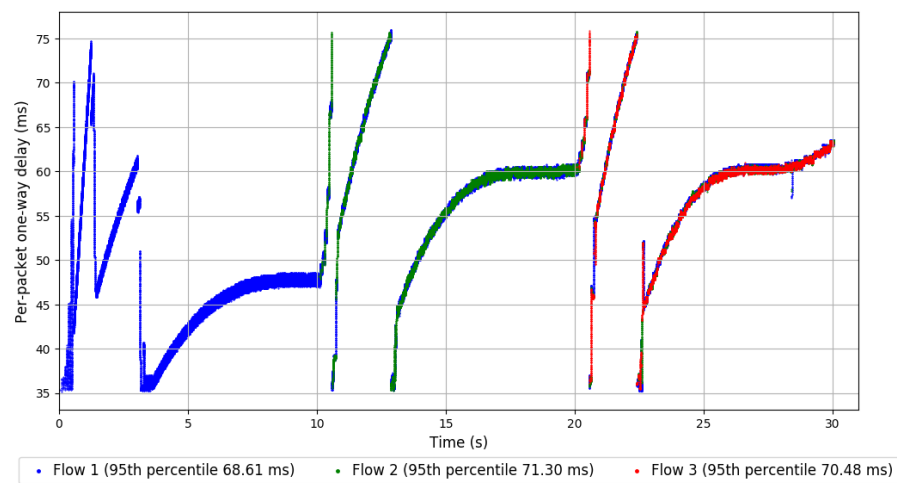
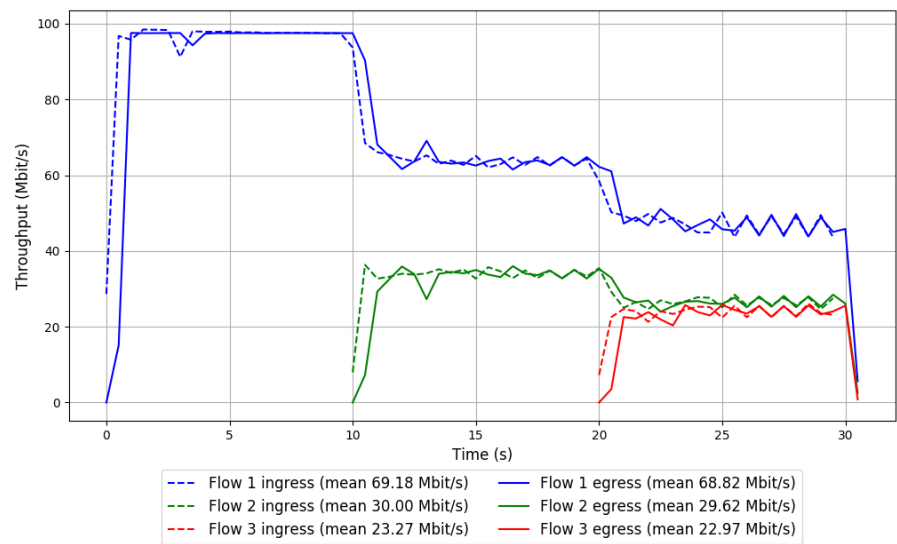


Run 6: Statistics of TCP Cubic

Start at: 2018-08-01 09:40:58  
End at: 2018-08-01 09:41:28  
Local clock offset: -3.328 ms  
Remote clock offset: 2.153 ms

# Below is generated by plot.py at 2018-08-01 11:39:57  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.12 Mbit/s  
95th percentile per-packet one-way delay: 69.613 ms  
Loss rate: 0.65%  
-- Flow 1:  
Average throughput: 68.82 Mbit/s  
95th percentile per-packet one-way delay: 68.612 ms  
Loss rate: 0.43%  
-- Flow 2:  
Average throughput: 29.62 Mbit/s  
95th percentile per-packet one-way delay: 71.303 ms  
Loss rate: 1.17%  
-- Flow 3:  
Average throughput: 22.97 Mbit/s  
95th percentile per-packet one-way delay: 70.482 ms  
Loss rate: 1.26%

Run 6: Report of TCP Cubic — Data Link

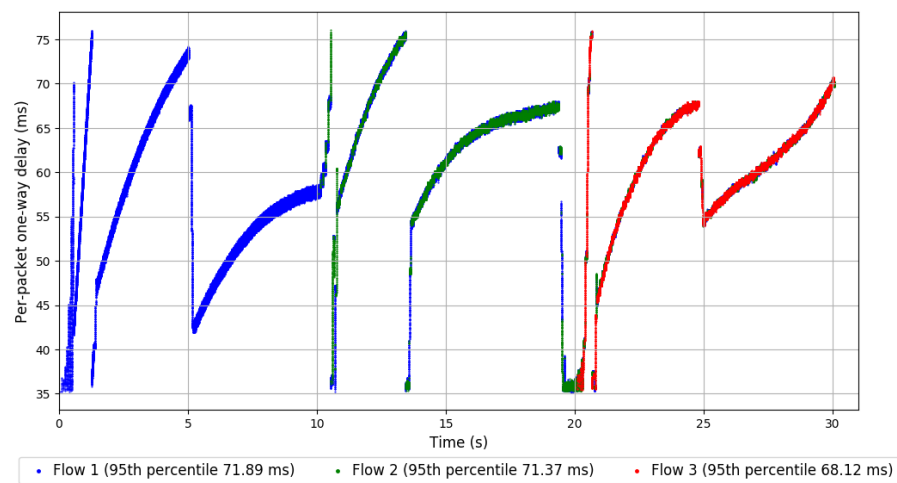
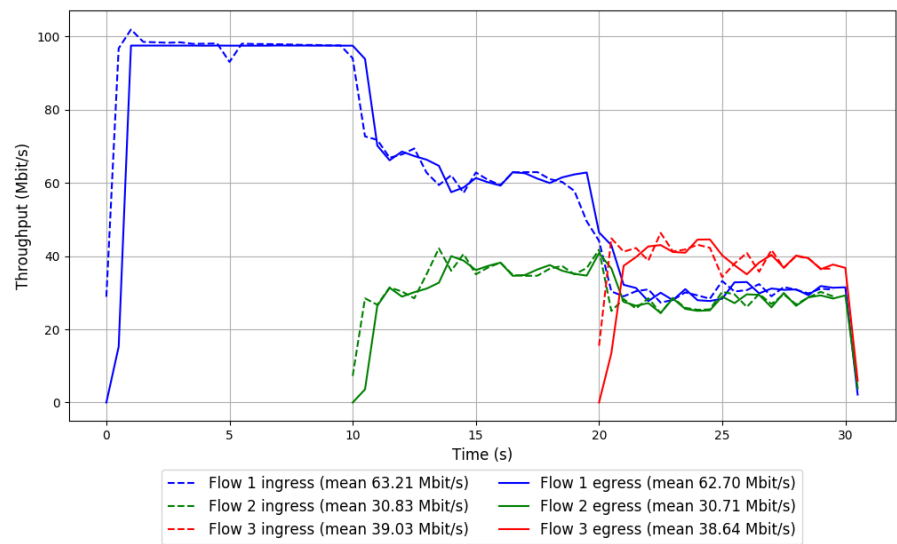


Run 7: Statistics of TCP Cubic

Start at: 2018-08-01 10:04:04  
End at: 2018-08-01 10:04:34  
Local clock offset: -0.496 ms  
Remote clock offset: 1.933 ms

# Below is generated by plot.py at 2018-08-01 11:39:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.00 Mbit/s  
95th percentile per-packet one-way delay: 71.523 ms  
Loss rate: 0.62%  
-- Flow 1:  
Average throughput: 62.70 Mbit/s  
95th percentile per-packet one-way delay: 71.894 ms  
Loss rate: 0.71%  
-- Flow 2:  
Average throughput: 30.71 Mbit/s  
95th percentile per-packet one-way delay: 71.366 ms  
Loss rate: 0.30%  
-- Flow 3:  
Average throughput: 38.64 Mbit/s  
95th percentile per-packet one-way delay: 68.119 ms  
Loss rate: 0.67%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-08-01 10:27:02

End at: 2018-08-01 10:27:32

Local clock offset: 0.617 ms

Remote clock offset: 1.867 ms

# Below is generated by plot.py at 2018-08-01 11:39:59

# Datalink statistics

-- Total of 3 flows:

Average throughput: 96.20 Mbit/s

95th percentile per-packet one-way delay: 69.482 ms

Loss rate: 0.72%

-- Flow 1:

Average throughput: 68.52 Mbit/s

95th percentile per-packet one-way delay: 68.072 ms

Loss rate: 0.71%

-- Flow 2:

Average throughput: 30.18 Mbit/s

95th percentile per-packet one-way delay: 71.173 ms

Loss rate: 0.54%

-- Flow 3:

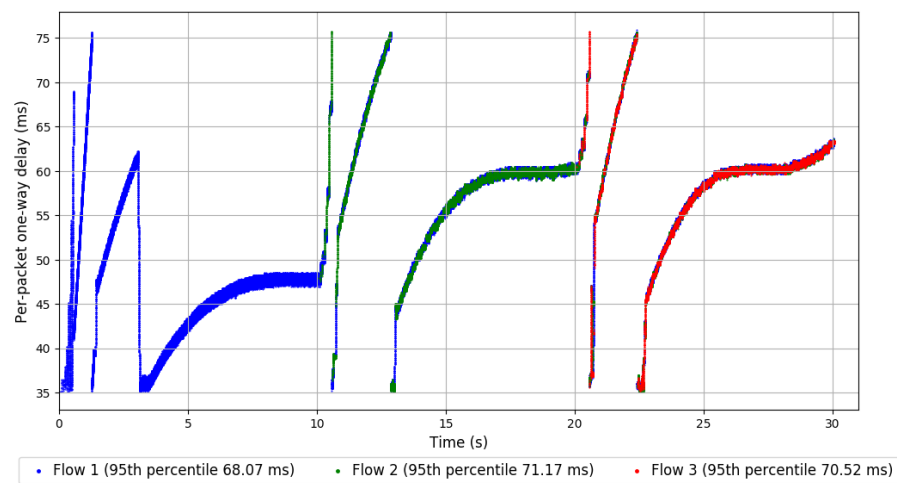
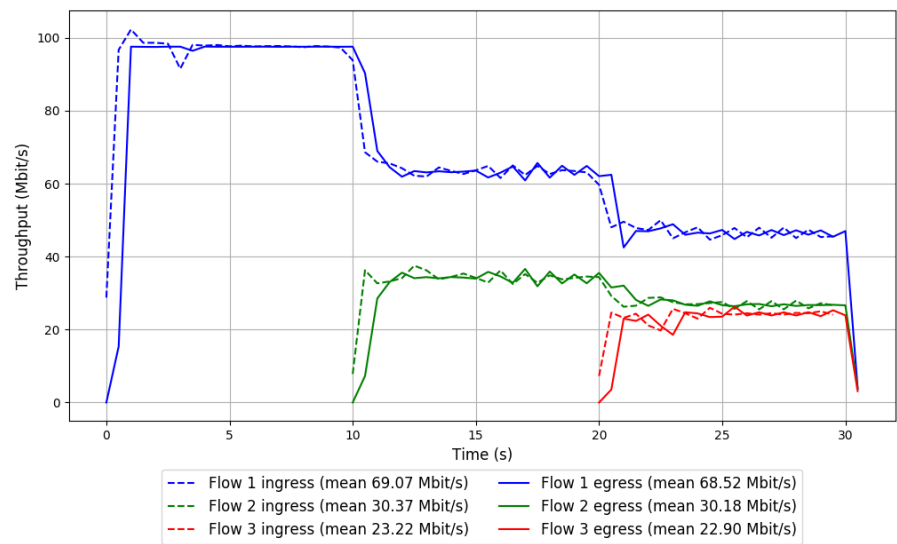
Average throughput: 22.90 Mbit/s

95th percentile per-packet one-way delay: 70.515 ms

Loss rate: 1.37%



Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-08-01 10:49:57

End at: 2018-08-01 10:50:27

Local clock offset: 0.627 ms

Remote clock offset: 1.712 ms

# Below is generated by plot.py at 2018-08-01 11:40:00

# Datalink statistics

-- Total of 3 flows:

Average throughput: 96.09 Mbit/s

95th percentile per-packet one-way delay: 72.578 ms

Loss rate: 0.49%

-- Flow 1:

Average throughput: 77.58 Mbit/s

95th percentile per-packet one-way delay: 72.373 ms

Loss rate: 0.53%

-- Flow 2:

Average throughput: 23.38 Mbit/s

95th percentile per-packet one-way delay: 73.317 ms

Loss rate: 0.33%

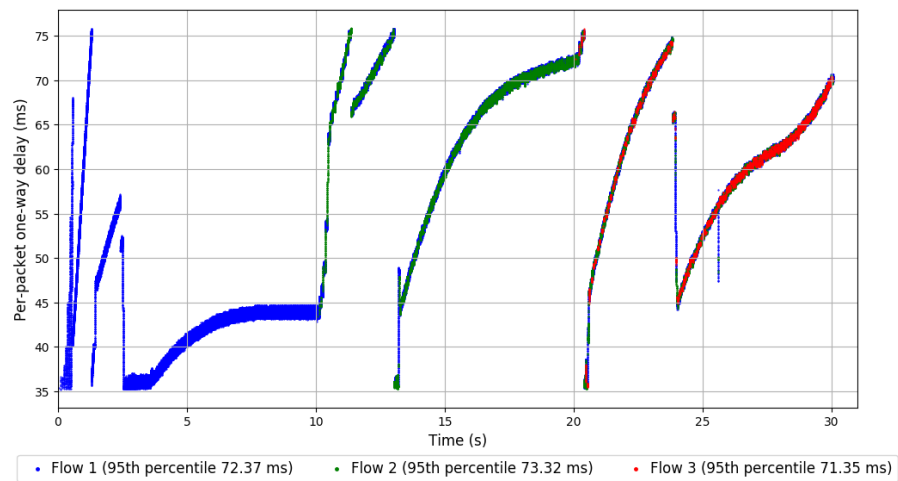
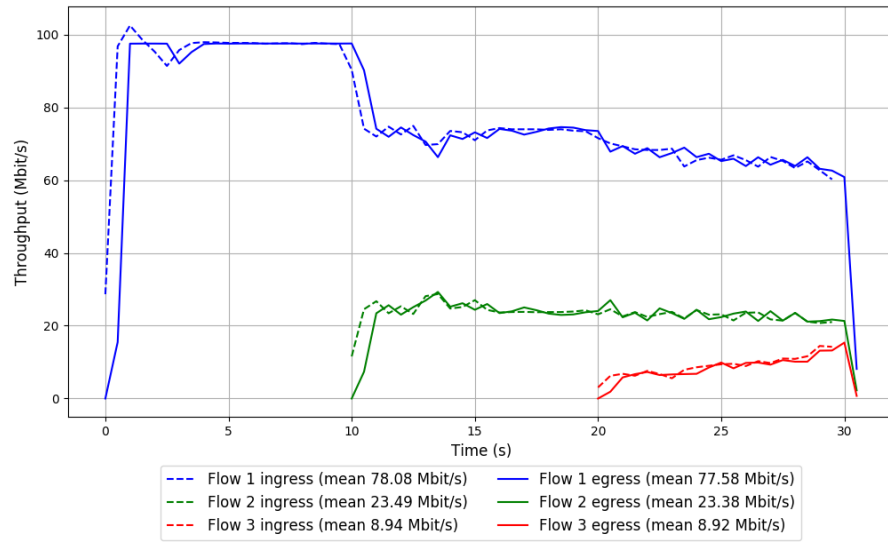
-- Flow 3:

Average throughput: 8.92 Mbit/s

95th percentile per-packet one-way delay: 71.347 ms

Loss rate: 0.32%

# Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-08-01 11:12:48

End at: 2018-08-01 11:13:18

Local clock offset: -3.073 ms

Remote clock offset: 1.805 ms

# Below is generated by plot.py at 2018-08-01 11:40:01

# Datalink statistics

-- Total of 3 flows:

Average throughput: 96.27 Mbit/s

95th percentile per-packet one-way delay: 70.939 ms

Loss rate: 0.54%

-- Flow 1:

Average throughput: 68.33 Mbit/s

95th percentile per-packet one-way delay: 70.162 ms

Loss rate: 0.35%

-- Flow 2:

Average throughput: 36.55 Mbit/s

95th percentile per-packet one-way delay: 71.951 ms

Loss rate: 1.04%

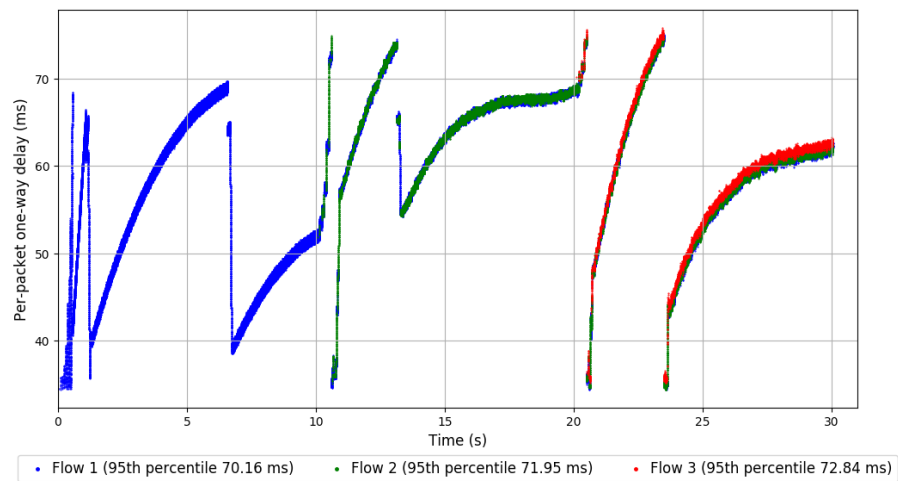
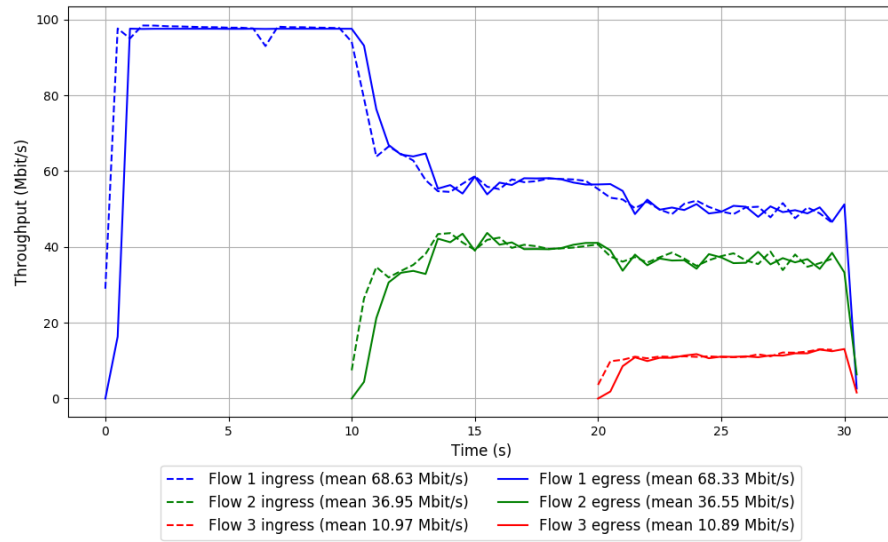
-- Flow 3:

Average throughput: 10.89 Mbit/s

95th percentile per-packet one-way delay: 72.842 ms

Loss rate: 0.81%

# Run 10: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2018-08-01 08:02:40

End at: 2018-08-01 08:03:10

Local clock offset: 0.479 ms

Remote clock offset: 2.923 ms

# Below is generated by plot.py at 2018-08-01 11:40:53

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.17 Mbit/s

95th percentile per-packet one-way delay: 72.680 ms

Loss rate: 27.05%

-- Flow 1:

Average throughput: 60.66 Mbit/s

95th percentile per-packet one-way delay: 72.101 ms

Loss rate: 22.25%

-- Flow 2:

Average throughput: 39.21 Mbit/s

95th percentile per-packet one-way delay: 73.265 ms

Loss rate: 35.13%

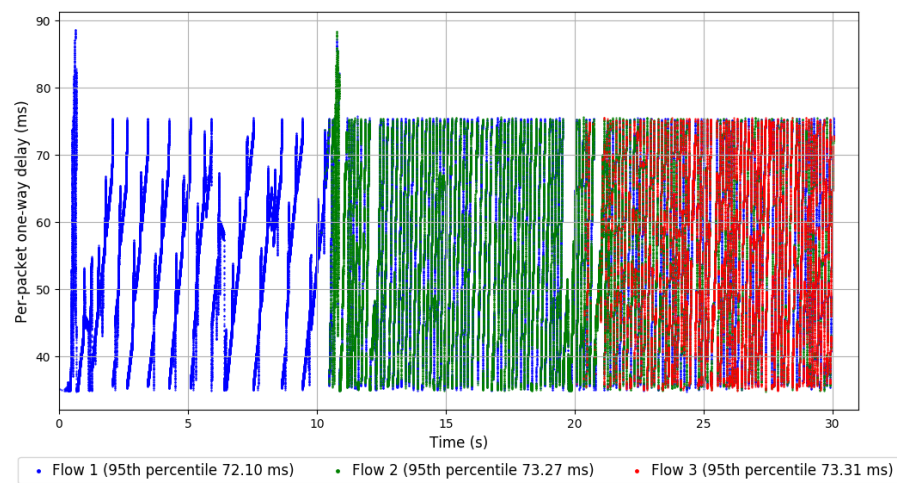
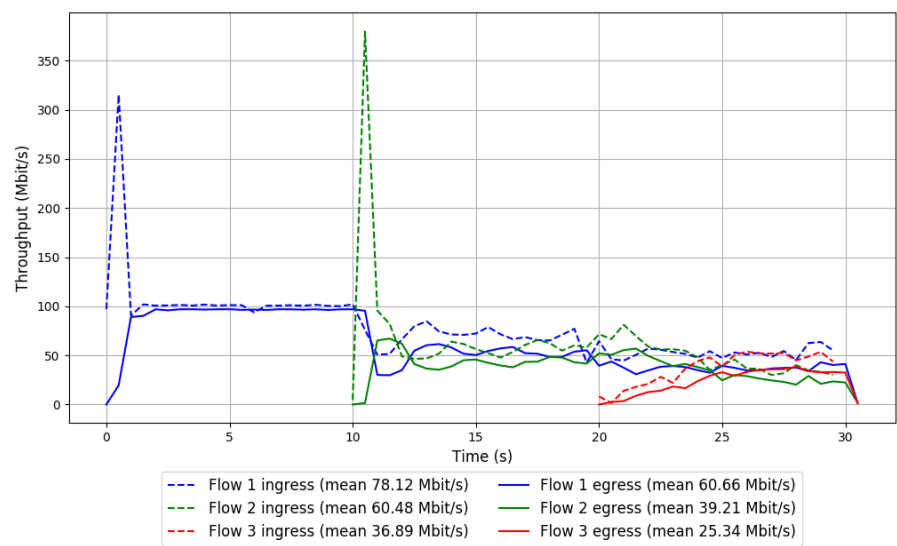
-- Flow 3:

Average throughput: 25.34 Mbit/s

95th percentile per-packet one-way delay: 73.305 ms

Loss rate: 31.09%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-08-01 08:25:31

End at: 2018-08-01 08:26:01

Local clock offset: 0.49 ms

Remote clock offset: 4.791 ms

# Below is generated by plot.py at 2018-08-01 11:41:00

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.24 Mbit/s

95th percentile per-packet one-way delay: 72.783 ms

Loss rate: 28.28%

-- Flow 1:

Average throughput: 61.19 Mbit/s

95th percentile per-packet one-way delay: 72.188 ms

Loss rate: 21.56%

-- Flow 2:

Average throughput: 32.86 Mbit/s

95th percentile per-packet one-way delay: 73.521 ms

Loss rate: 36.55%

-- Flow 3:

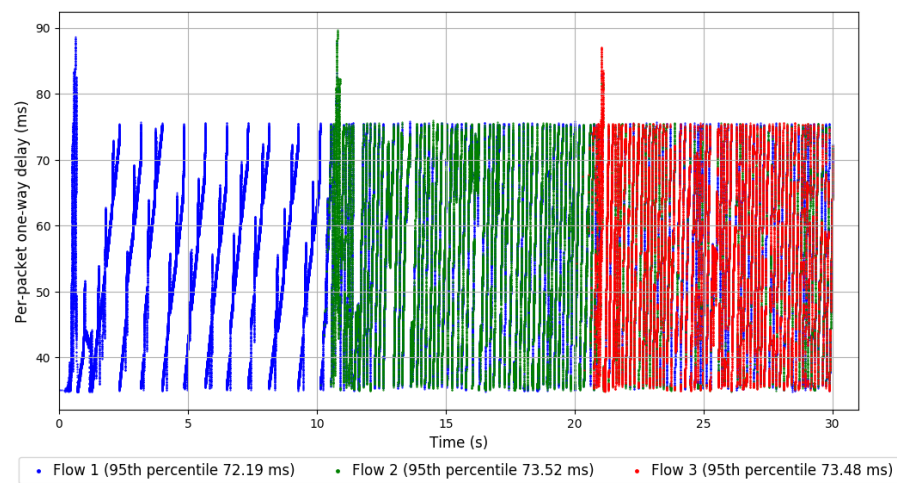
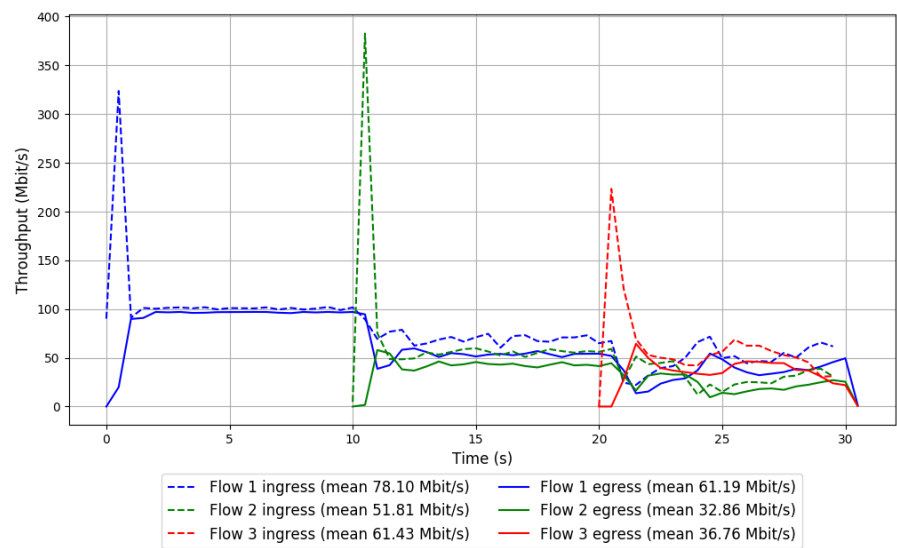
Average throughput: 36.76 Mbit/s

95th percentile per-packet one-way delay: 73.483 ms

Loss rate: 40.05%



Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-08-01 08:48:24

End at: 2018-08-01 08:48:54

Local clock offset: 0.366 ms

Remote clock offset: 2.136 ms

# Below is generated by plot.py at 2018-08-01 11:41:27

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.07 Mbit/s

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

Loss rate: 27.22%

-- Flow 1:

Average throughput: 59.80 Mbit/s

95th percentile per-packet one-way delay: 72.251 ms

Loss rate: 21.96%

-- Flow 2:

Average throughput: 36.83 Mbit/s

95th percentile per-packet one-way delay: 73.532 ms

Loss rate: 35.63%

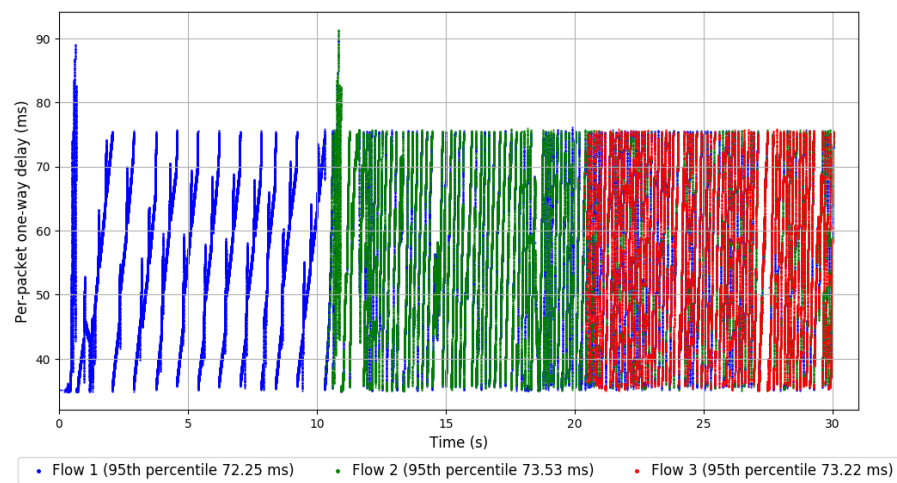
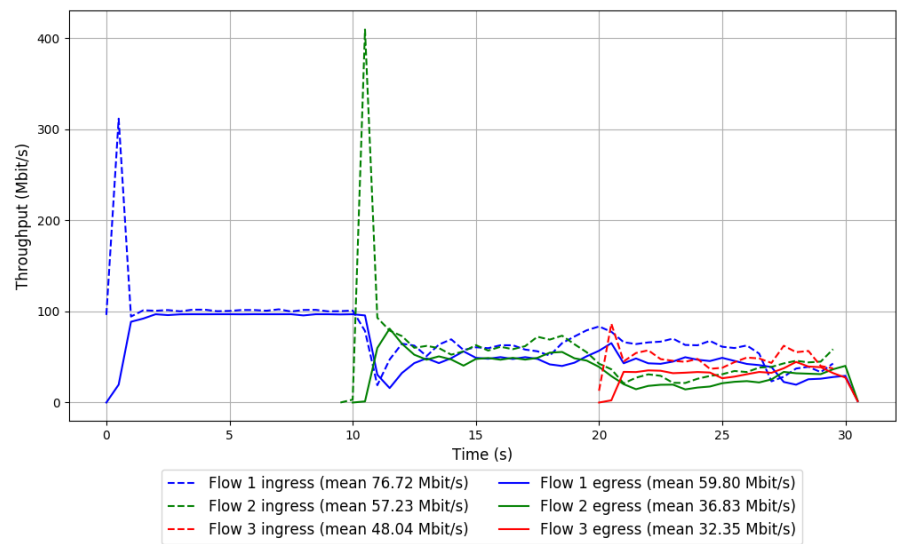
-- Flow 3:

Average throughput: 32.35 Mbit/s

95th percentile per-packet one-way delay: 73.217 ms

Loss rate: 32.44%

Run 3: Report of FillP — Data Link

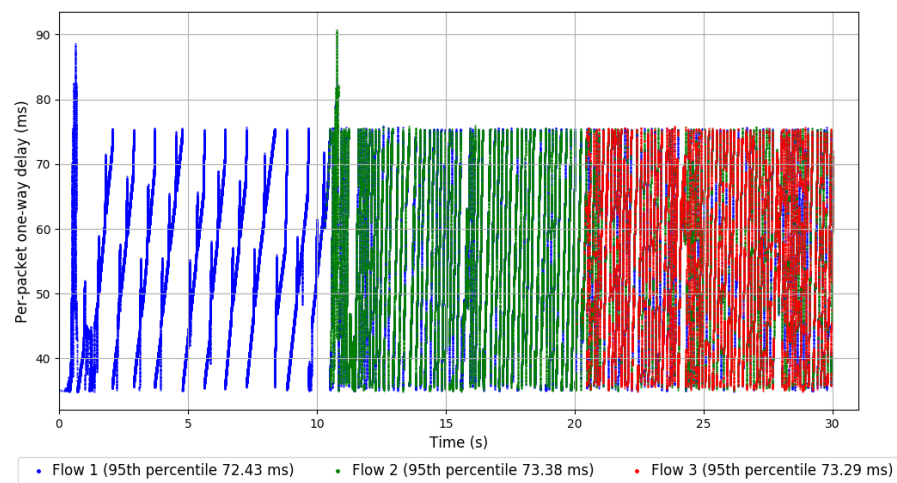
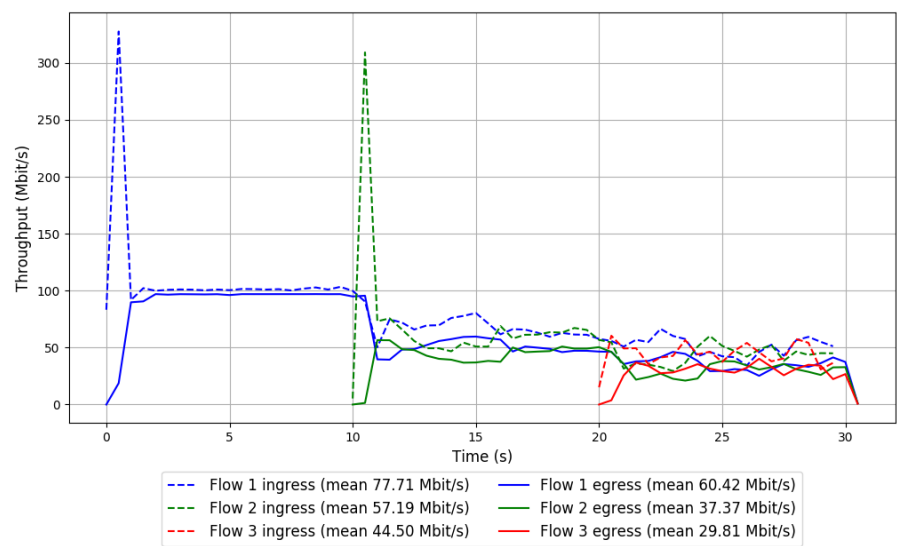


Run 4: Statistics of FillP

Start at: 2018-08-01 09:11:21  
End at: 2018-08-01 09:11:51  
Local clock offset: -3.079 ms  
Remote clock offset: 1.966 ms

# Below is generated by plot.py at 2018-08-01 11:41:28  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.18 Mbit/s  
95th percentile per-packet one-way delay: 72.840 ms  
Loss rate: 27.00%  
-- Flow 1:  
Average throughput: 60.42 Mbit/s  
95th percentile per-packet one-way delay: 72.433 ms  
Loss rate: 22.16%  
-- Flow 2:  
Average throughput: 37.37 Mbit/s  
95th percentile per-packet one-way delay: 73.380 ms  
Loss rate: 34.60%  
-- Flow 3:  
Average throughput: 29.81 Mbit/s  
95th percentile per-packet one-way delay: 73.286 ms  
Loss rate: 32.84%

Run 4: Report of FillP — Data Link

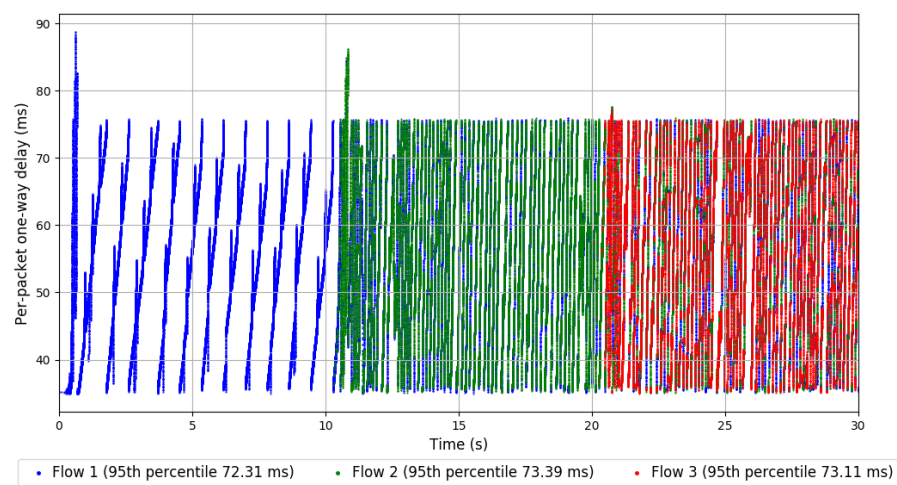
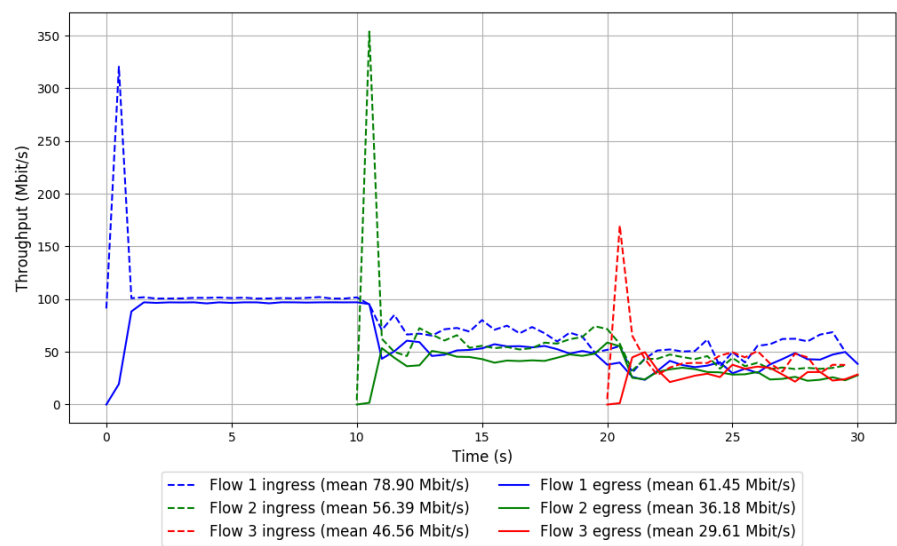


Run 5: Statistics of FillP

Start at: 2018-08-01 09:34:14  
End at: 2018-08-01 09:34:44  
Local clock offset: -3.353 ms  
Remote clock offset: 2.047 ms

# Below is generated by plot.py at 2018-08-01 11:41:30  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.30 Mbit/s  
95th percentile per-packet one-way delay: 72.725 ms  
Loss rate: 27.72%  
-- Flow 1:  
Average throughput: 61.45 Mbit/s  
95th percentile per-packet one-way delay: 72.314 ms  
Loss rate: 22.11%  
-- Flow 2:  
Average throughput: 36.18 Mbit/s  
95th percentile per-packet one-way delay: 73.394 ms  
Loss rate: 35.90%  
-- Flow 3:  
Average throughput: 29.61 Mbit/s  
95th percentile per-packet one-way delay: 73.106 ms  
Loss rate: 36.51%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-08-01 09:57:19

End at: 2018-08-01 09:57:49

Local clock offset: -1.79 ms

Remote clock offset: 1.902 ms

# Below is generated by plot.py at 2018-08-01 11:41:31

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.08 Mbit/s

95th percentile per-packet one-way delay: 73.164 ms

Loss rate: 28.80%

-- Flow 1:

Average throughput: 60.14 Mbit/s

95th percentile per-packet one-way delay: 72.856 ms

Loss rate: 22.32%

-- Flow 2:

Average throughput: 35.91 Mbit/s

95th percentile per-packet one-way delay: 73.532 ms

Loss rate: 36.33%

-- Flow 3:

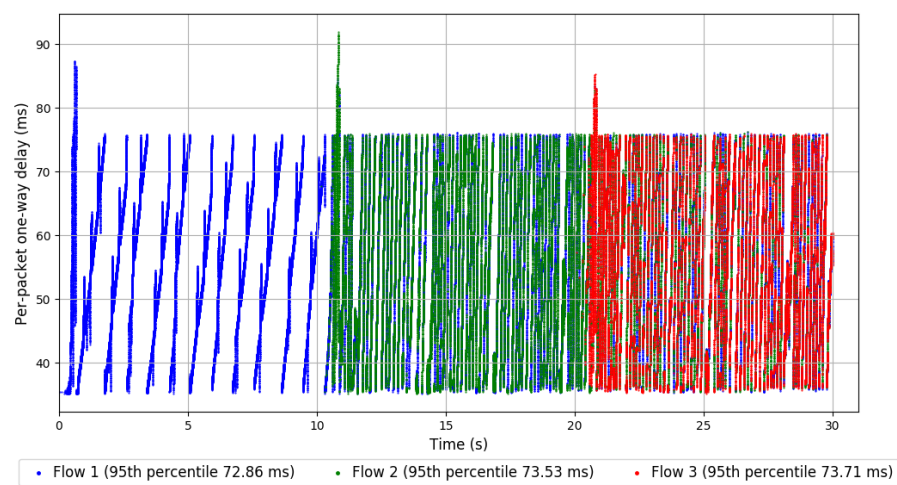
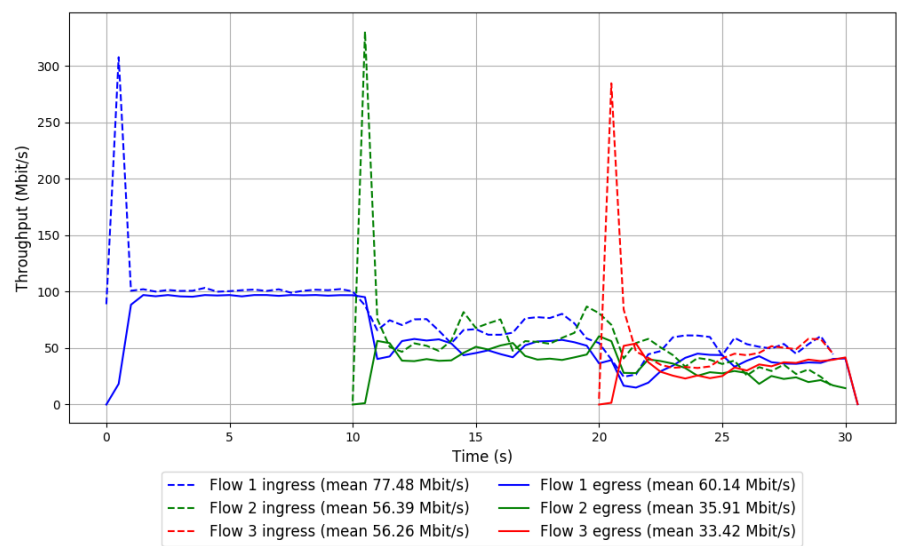
Average throughput: 33.42 Mbit/s

95th percentile per-packet one-way delay: 73.710 ms

Loss rate: 40.59%



Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-08-01 10:20:18

End at: 2018-08-01 10:20:48

Local clock offset: 0.591 ms

Remote clock offset: 1.909 ms

# Below is generated by plot.py at 2018-08-01 11:41:34

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.33 Mbit/s

95th percentile per-packet one-way delay: 72.893 ms

Loss rate: 28.69%

-- Flow 1:

Average throughput: 58.54 Mbit/s

95th percentile per-packet one-way delay: 72.215 ms

Loss rate: 21.01%

-- Flow 2:

Average throughput: 41.04 Mbit/s

95th percentile per-packet one-way delay: 73.437 ms

Loss rate: 34.63%

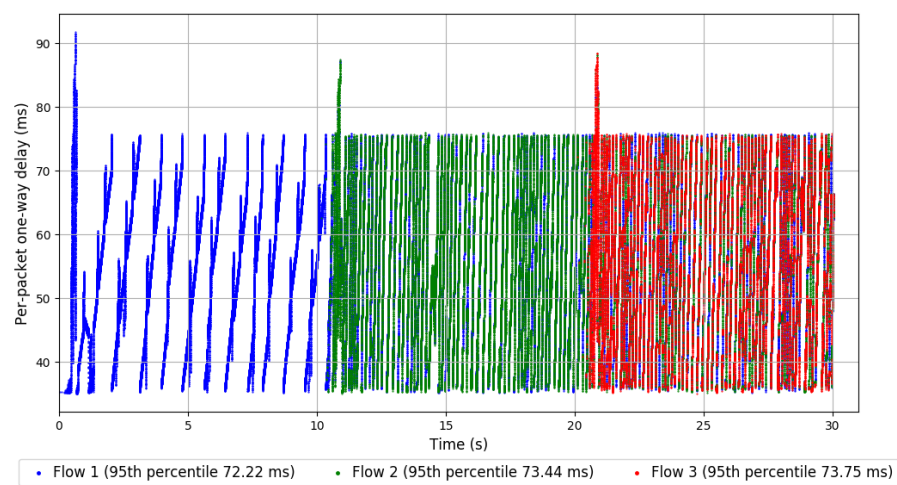
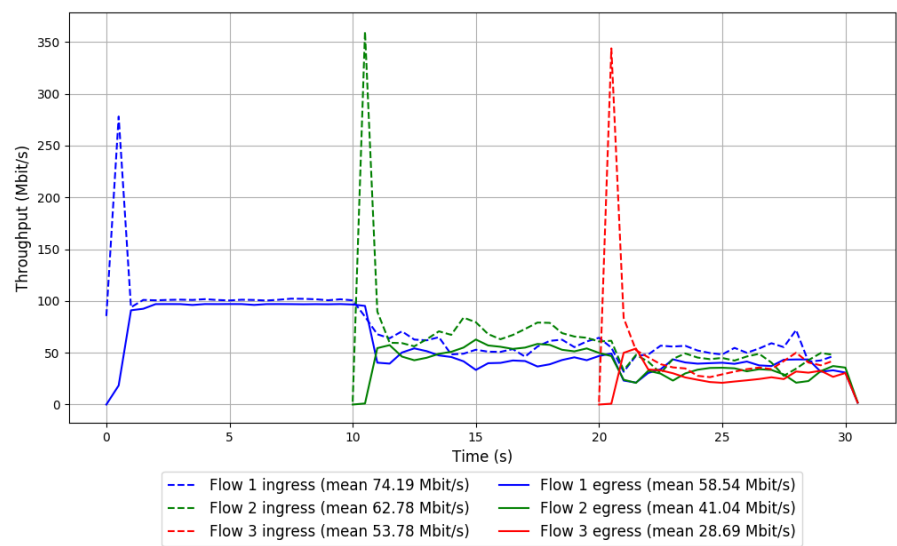
-- Flow 3:

Average throughput: 28.69 Mbit/s

95th percentile per-packet one-way delay: 73.755 ms

Loss rate: 46.68%

Run 7: Report of FillP — Data Link

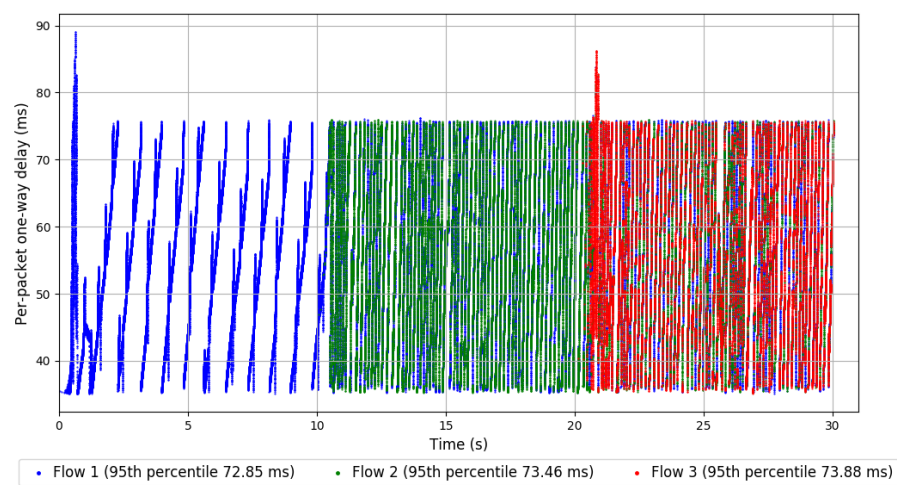
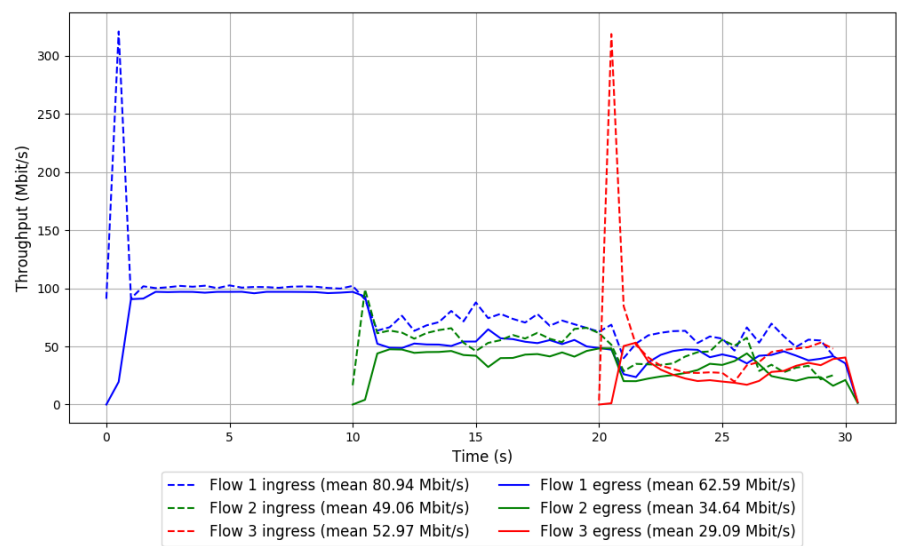


Run 8: Statistics of FillP

Start at: 2018-08-01 10:43:14  
End at: 2018-08-01 10:43:44  
Local clock offset: 0.537 ms  
Remote clock offset: 1.698 ms

# Below is generated by plot.py at 2018-08-01 11:41:34  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.30 Mbit/s  
95th percentile per-packet one-way delay: 73.164 ms  
Loss rate: 27.27%  
-- Flow 1:  
Average throughput: 62.59 Mbit/s  
95th percentile per-packet one-way delay: 72.850 ms  
Loss rate: 22.58%  
-- Flow 2:  
Average throughput: 34.64 Mbit/s  
95th percentile per-packet one-way delay: 73.462 ms  
Loss rate: 29.29%  
-- Flow 3:  
Average throughput: 29.09 Mbit/s  
95th percentile per-packet one-way delay: 73.875 ms  
Loss rate: 45.08%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-08-01 11:06:06

End at: 2018-08-01 11:06:36

Local clock offset: -2.516 ms

Remote clock offset: 1.77 ms

# Below is generated by plot.py at 2018-08-01 11:42:40

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.27 Mbit/s

95th percentile per-packet one-way delay: 72.946 ms

Loss rate: 28.64%

-- Flow 1:

Average throughput: 58.47 Mbit/s

95th percentile per-packet one-way delay: 72.305 ms

Loss rate: 21.79%

-- Flow 2:

Average throughput: 36.82 Mbit/s

95th percentile per-packet one-way delay: 73.652 ms

Loss rate: 35.81%

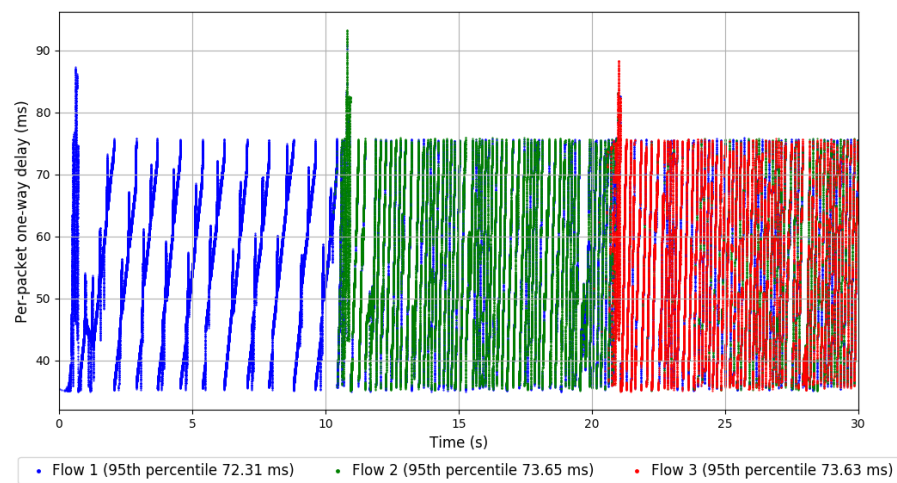
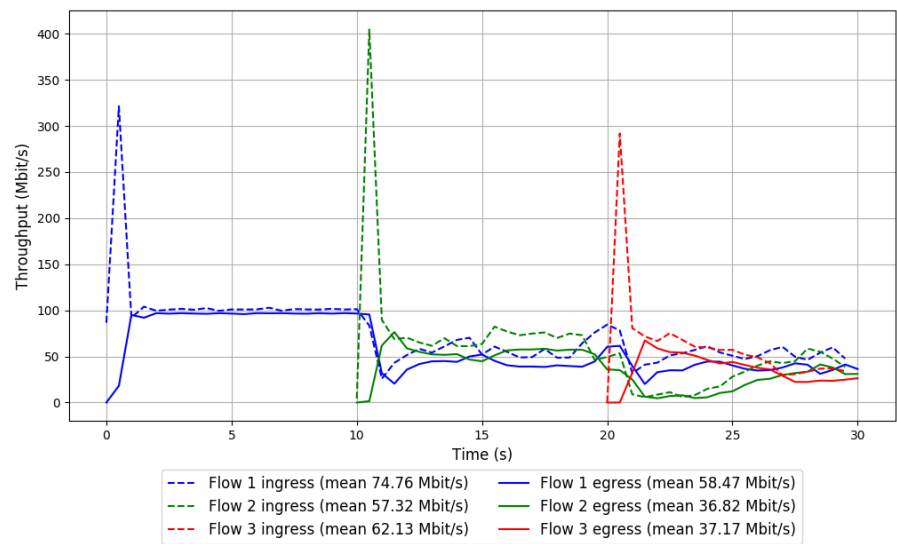
-- Flow 3:

Average throughput: 37.17 Mbit/s

95th percentile per-packet one-way delay: 73.633 ms

Loss rate: 40.24%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-08-01 11:29:04

End at: 2018-08-01 11:29:34

Local clock offset: -3.804 ms

Remote clock offset: 1.725 ms

# Below is generated by plot.py at 2018-08-01 11:42:42

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.31 Mbit/s

95th percentile per-packet one-way delay: 72.354 ms

Loss rate: 27.41%

-- Flow 1:

Average throughput: 61.84 Mbit/s

95th percentile per-packet one-way delay: 71.646 ms

Loss rate: 21.17%

-- Flow 2:

Average throughput: 37.13 Mbit/s

95th percentile per-packet one-way delay: 73.415 ms

Loss rate: 34.48%

-- Flow 3:

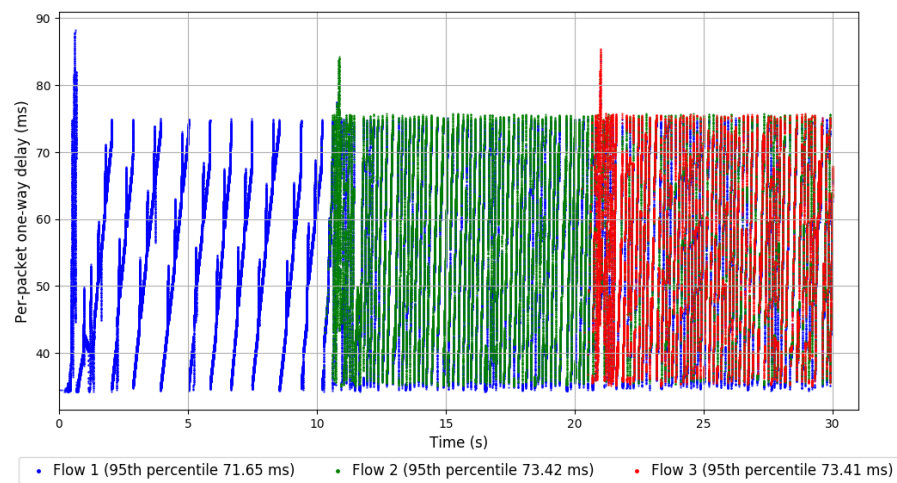
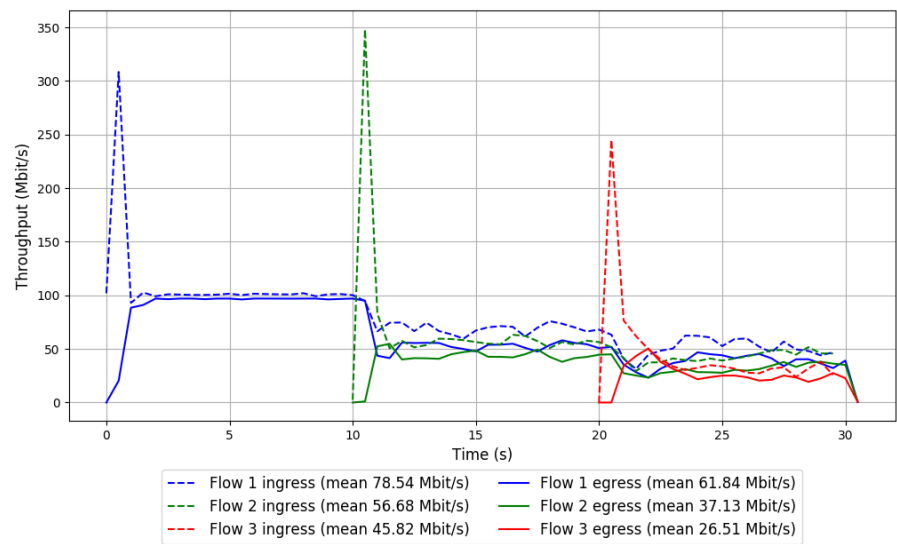
Average throughput: 26.51 Mbit/s

95th percentile per-packet one-way delay: 73.412 ms

Loss rate: 42.11%



Run 10: Report of FillP — Data Link



Run 1: Statistics of FillP-Sheep

Start at: 2018-08-01 07:54:37

End at: 2018-08-01 07:55:07

Local clock offset: 0.796 ms

Remote clock offset: 1.729 ms

# Below is generated by plot.py at 2018-08-01 11:42:59

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.30 Mbit/s

95th percentile per-packet one-way delay: 71.789 ms

Loss rate: 19.87%

-- Flow 1:

Average throughput: 58.17 Mbit/s

95th percentile per-packet one-way delay: 70.706 ms

Loss rate: 13.44%

-- Flow 2:

Average throughput: 40.71 Mbit/s

95th percentile per-packet one-way delay: 72.854 ms

Loss rate: 25.99%

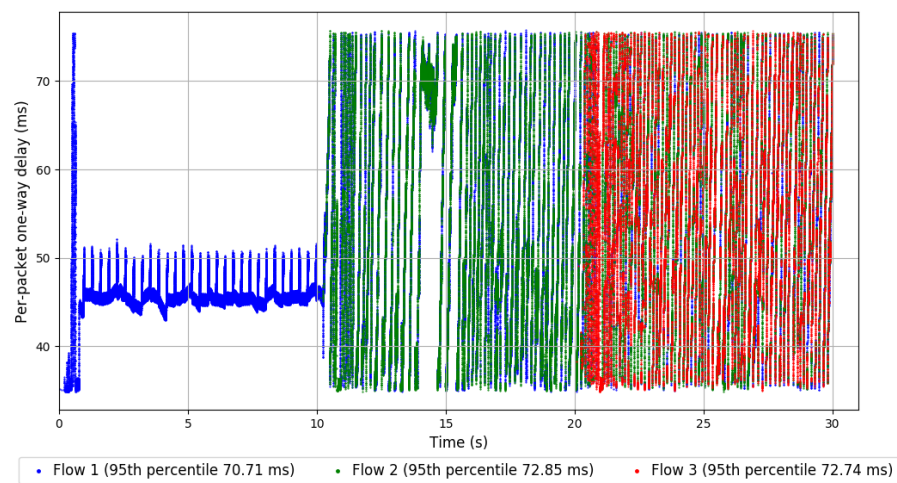
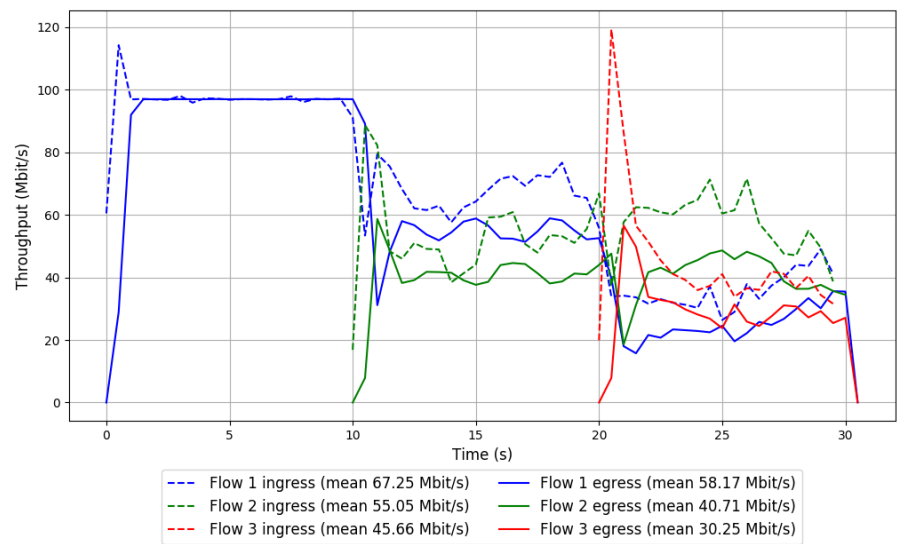
-- Flow 3:

Average throughput: 30.25 Mbit/s

95th percentile per-packet one-way delay: 72.737 ms

Loss rate: 33.62%

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

Start at: 2018-08-01 08:17:28

End at: 2018-08-01 08:17:58

Local clock offset: 0.49 ms

Remote clock offset: 4.199 ms

# Below is generated by plot.py at 2018-08-01 11:42:59

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.15 Mbit/s

95th percentile per-packet one-way delay: 71.748 ms

Loss rate: 18.42%

-- Flow 1:

Average throughput: 60.23 Mbit/s

95th percentile per-packet one-way delay: 70.300 ms

Loss rate: 13.18%

-- Flow 2:

Average throughput: 37.19 Mbit/s

95th percentile per-packet one-way delay: 72.746 ms

Loss rate: 24.95%

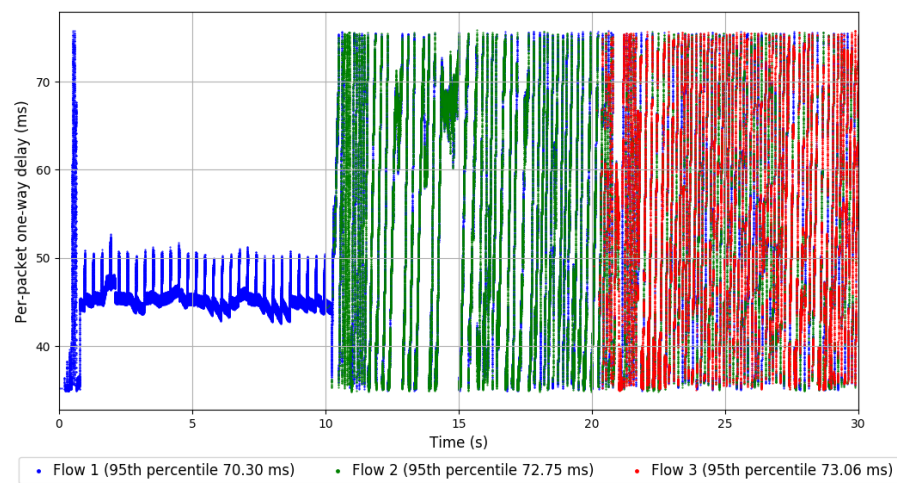
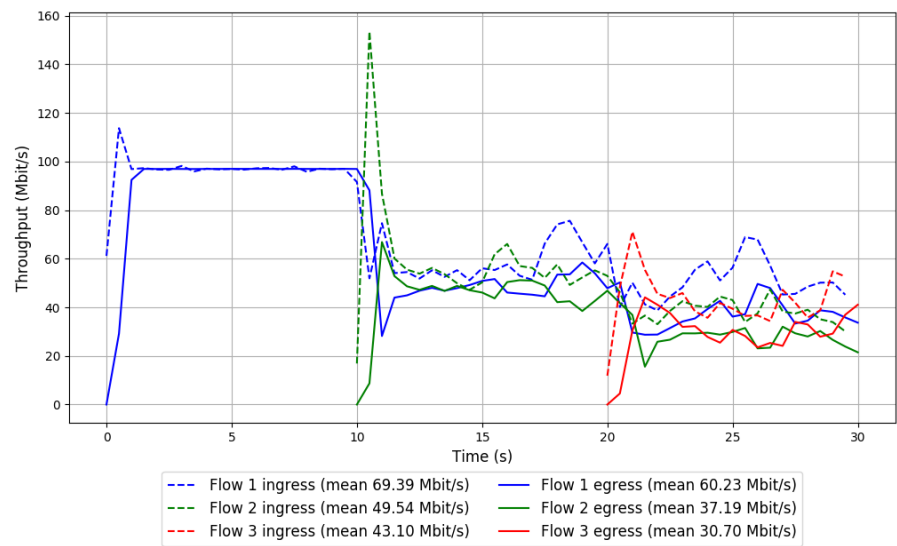
-- Flow 3:

Average throughput: 30.70 Mbit/s

95th percentile per-packet one-way delay: 73.056 ms

Loss rate: 28.80%

Run 2: Report of FillP-Sheep — Data Link



Run 3: Statistics of FillP-Sheep

Start at: 2018-08-01 08:40:22

End at: 2018-08-01 08:40:52

Local clock offset: 0.339 ms

Remote clock offset: 2.855 ms

# Below is generated by plot.py at 2018-08-01 11:43:00

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.08 Mbit/s

95th percentile per-packet one-way delay: 71.877 ms

Loss rate: 19.53%

-- Flow 1:

Average throughput: 61.71 Mbit/s

95th percentile per-packet one-way delay: 70.785 ms

Loss rate: 14.60%

-- Flow 2:

Average throughput: 36.73 Mbit/s

95th percentile per-packet one-way delay: 72.971 ms

Loss rate: 24.83%

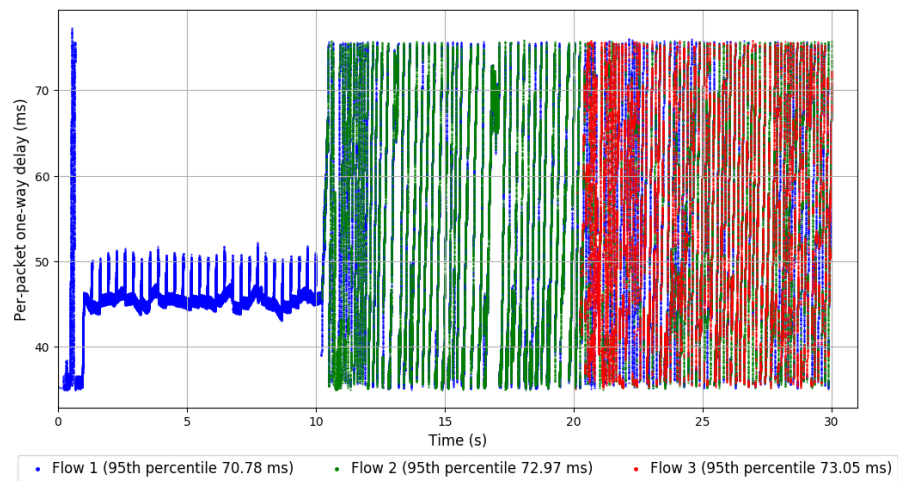
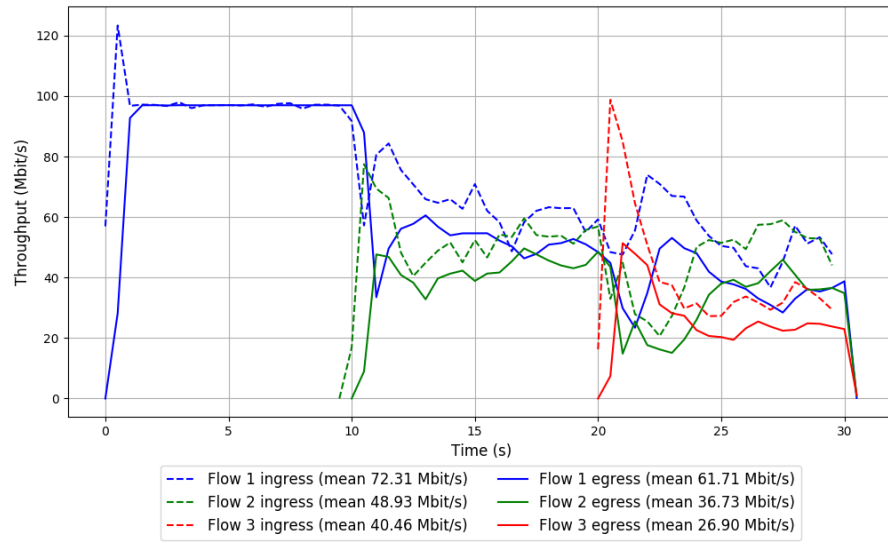
-- Flow 3:

Average throughput: 26.90 Mbit/s

95th percentile per-packet one-way delay: 73.053 ms

Loss rate: 33.29%

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



Run 4: Statistics of FillP-Sheep

Start at: 2018-08-01 09:03:18

End at: 2018-08-01 09:03:48

Local clock offset: -2.294 ms

Remote clock offset: 1.679 ms

# Below is generated by plot.py at 2018-08-01 11:43:01

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.34 Mbit/s

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

Loss rate: 20.76%

-- Flow 1:

Average throughput: 59.49 Mbit/s

95th percentile per-packet one-way delay: 69.924 ms

Loss rate: 15.13%

-- Flow 2:

Average throughput: 37.47 Mbit/s

95th percentile per-packet one-way delay: 72.579 ms

Loss rate: 26.52%

-- Flow 3:

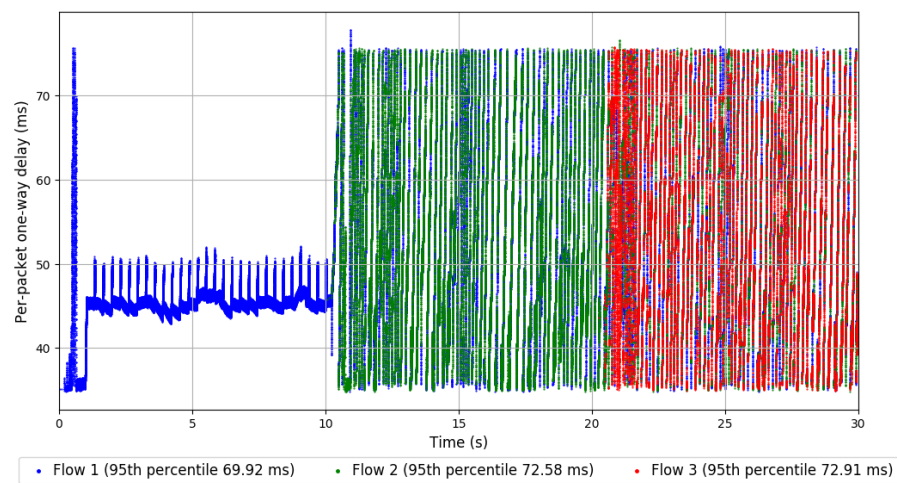
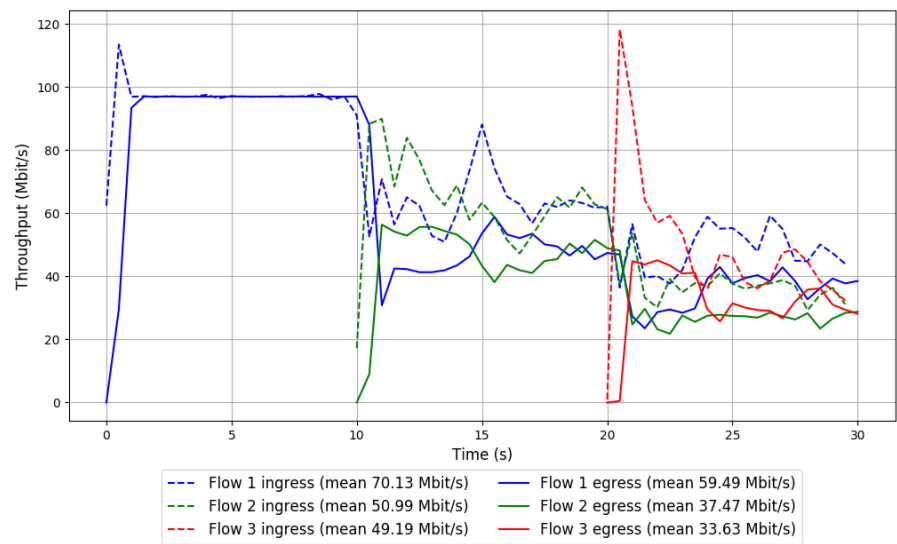
Average throughput: 33.63 Mbit/s

95th percentile per-packet one-way delay: 72.905 ms

Loss rate: 32.98%



Run 4: Report of FillP-Sheep — Data Link



Run 5: Statistics of FillP-Sheep

Start at: 2018-08-01 09:26:10

End at: 2018-08-01 09:26:40

Local clock offset: -3.525 ms

Remote clock offset: 2.061 ms

# Below is generated by plot.py at 2018-08-01 11:43:03

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.02 Mbit/s

95th percentile per-packet one-way delay: 71.793 ms

Loss rate: 20.63%

-- Flow 1:

Average throughput: 58.16 Mbit/s

95th percentile per-packet one-way delay: 70.343 ms

Loss rate: 14.44%

-- Flow 2:

Average throughput: 36.44 Mbit/s

95th percentile per-packet one-way delay: 72.872 ms

Loss rate: 27.44%

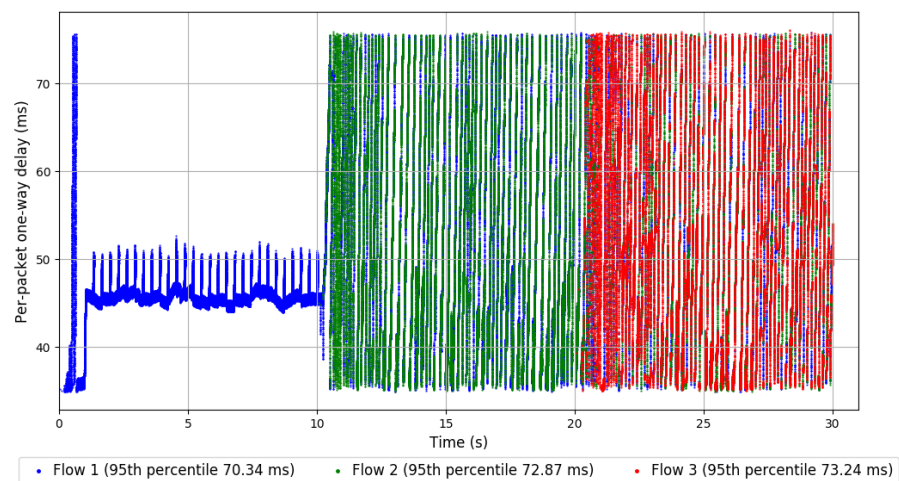
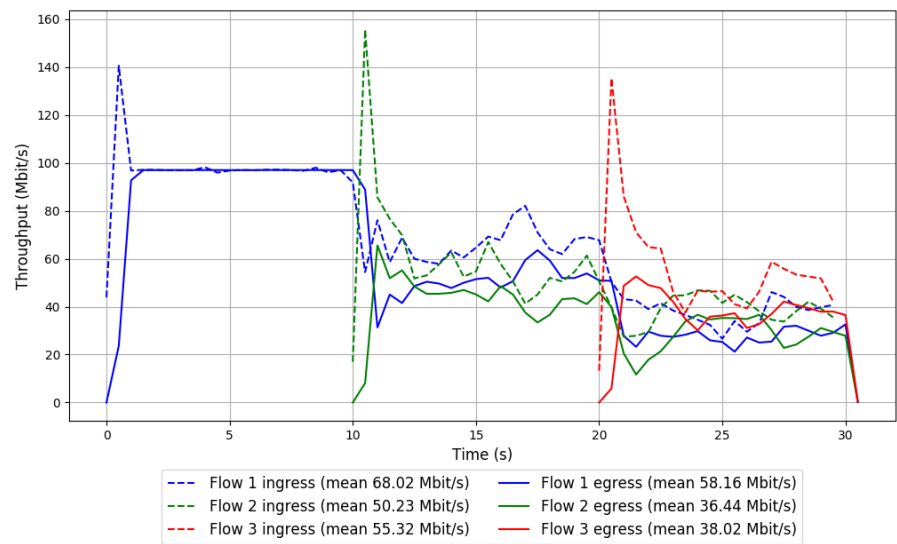
-- Flow 3:

Average throughput: 38.02 Mbit/s

95th percentile per-packet one-way delay: 73.239 ms

Loss rate: 31.18%

Run 5: Report of FillP-Sheep — Data Link



Run 6: Statistics of FillP-Sheep

Start at: 2018-08-01 09:49:15

End at: 2018-08-01 09:49:45

Local clock offset: -3.339 ms

Remote clock offset: 2.071 ms

# Below is generated by plot.py at 2018-08-01 11:43:05

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.55 Mbit/s

95th percentile per-packet one-way delay: 71.938 ms

Loss rate: 19.92%

-- Flow 1:

Average throughput: 56.87 Mbit/s

95th percentile per-packet one-way delay: 70.543 ms

Loss rate: 12.88%

-- Flow 2:

Average throughput: 38.11 Mbit/s

95th percentile per-packet one-way delay: 72.894 ms

Loss rate: 25.68%

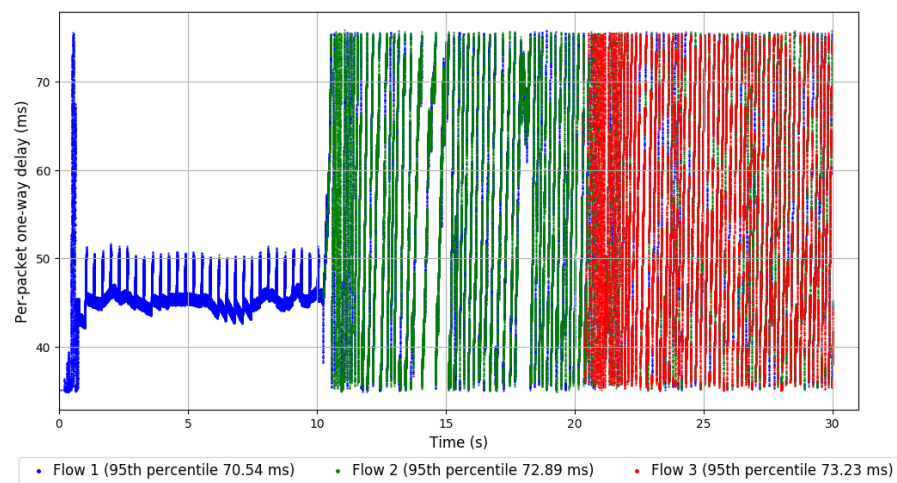
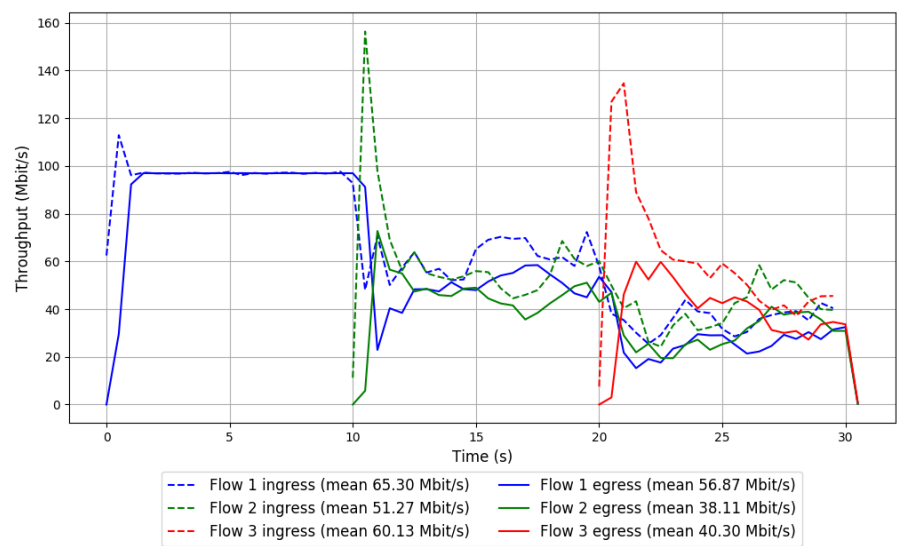
-- Flow 3:

Average throughput: 40.30 Mbit/s

95th percentile per-packet one-way delay: 73.230 ms

Loss rate: 33.14%

Run 6: Report of FillP-Sheep — Data Link

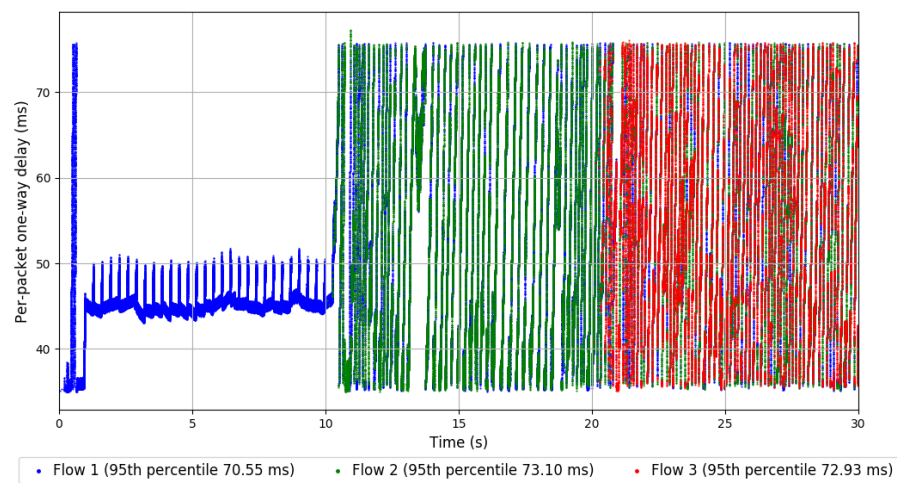
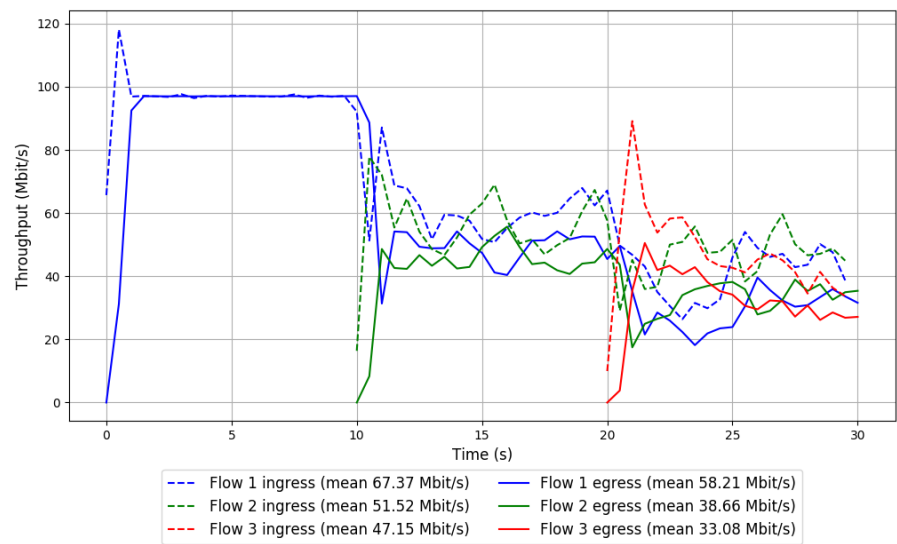


Run 7: Statistics of FillP-Sheep

Start at: 2018-08-01 10:12:13  
End at: 2018-08-01 10:12:43  
Local clock offset: 0.181 ms  
Remote clock offset: 1.913 ms

# Below is generated by plot.py at 2018-08-01 11:44:14  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.90 Mbit/s  
95th percentile per-packet one-way delay: 71.939 ms  
Loss rate: 19.07%  
-- Flow 1:  
Average throughput: 58.21 Mbit/s  
95th percentile per-packet one-way delay: 70.552 ms  
Loss rate: 13.58%  
-- Flow 2:  
Average throughput: 38.66 Mbit/s  
95th percentile per-packet one-way delay: 73.100 ms  
Loss rate: 24.97%  
-- Flow 3:  
Average throughput: 33.08 Mbit/s  
95th percentile per-packet one-way delay: 72.927 ms  
Loss rate: 29.83%

Run 7: Report of FillP-Sheep — Data Link



Run 8: Statistics of FillP-Sheep

Start at: 2018-08-01 10:35:09

End at: 2018-08-01 10:35:39

Local clock offset: 0.537 ms

Remote clock offset: 1.715 ms

# Below is generated by plot.py at 2018-08-01 11:44:16

# Datalink statistics

-- Total of 3 flows:

Average throughput: 94.71 Mbit/s

95th percentile per-packet one-way delay: 71.457 ms

Loss rate: 17.98%

-- Flow 1:

Average throughput: 58.27 Mbit/s

95th percentile per-packet one-way delay: 69.953 ms

Loss rate: 12.32%

-- Flow 2:

Average throughput: 40.20 Mbit/s

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

Loss rate: 23.46%

-- Flow 3:

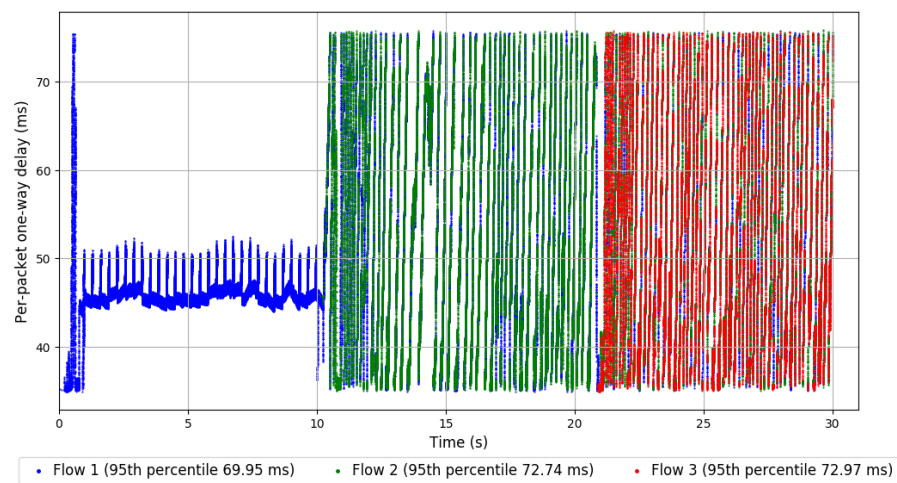
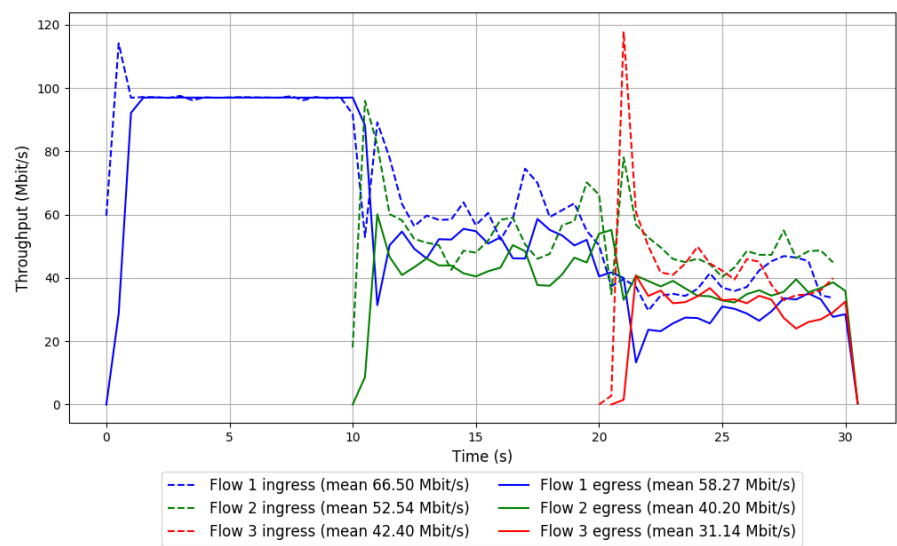
Average throughput: 31.14 Mbit/s

95th percentile per-packet one-way delay: 72.969 ms

Loss rate: 31.12%



Run 8: Report of FillP-Sheep — Data Link



Run 9: Statistics of FillP-Sheep

Start at: 2018-08-01 10:58:03

End at: 2018-08-01 10:58:33

Local clock offset: -1.095 ms

Remote clock offset: 1.732 ms

# Below is generated by plot.py at 2018-08-01 11:44:30

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.37 Mbit/s

95th percentile per-packet one-way delay: 71.782 ms

Loss rate: 18.88%

-- Flow 1:

Average throughput: 57.33 Mbit/s

95th percentile per-packet one-way delay: 70.159 ms

Loss rate: 13.03%

-- Flow 2:

Average throughput: 41.94 Mbit/s

95th percentile per-packet one-way delay: 72.705 ms

Loss rate: 23.82%

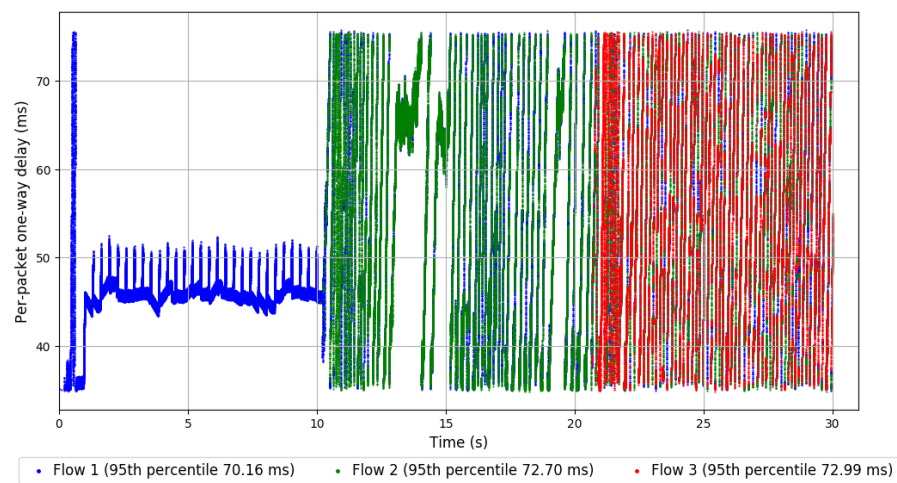
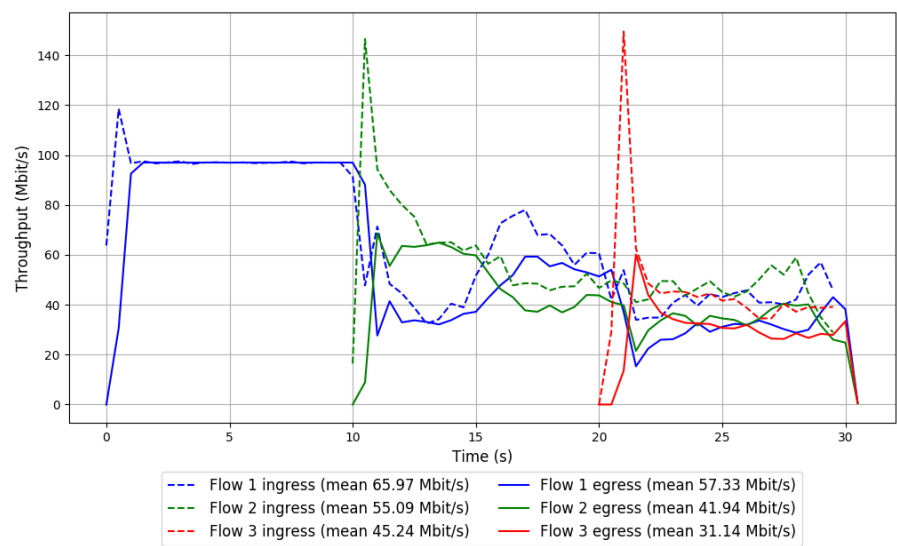
-- Flow 3:

Average throughput: 31.14 Mbit/s

95th percentile per-packet one-way delay: 72.992 ms

Loss rate: 32.53%

Run 9: Report of FillP-Sheep — Data Link



Run 10: Statistics of FillP-Sheep

Start at: 2018-08-01 11:20:59

End at: 2018-08-01 11:21:29

Local clock offset: -3.539 ms

Remote clock offset: 1.945 ms

# Below is generated by plot.py at 2018-08-01 11:44:31

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.09 Mbit/s

95th percentile per-packet one-way delay: 71.134 ms

Loss rate: 19.95%

-- Flow 1:

Average throughput: 57.59 Mbit/s

95th percentile per-packet one-way delay: 69.385 ms

Loss rate: 13.79%

-- Flow 2:

Average throughput: 39.64 Mbit/s

95th percentile per-packet one-way delay: 72.066 ms

Loss rate: 26.95%

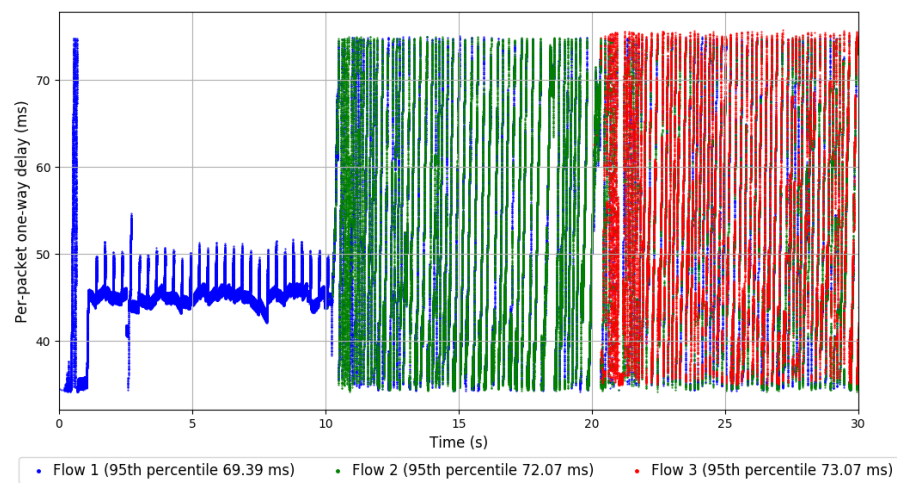
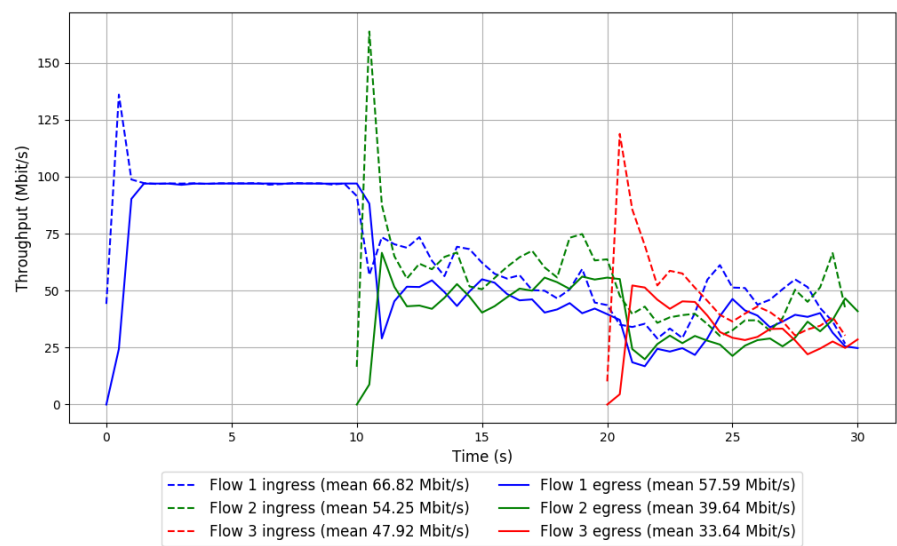
-- Flow 3:

Average throughput: 33.64 Mbit/s

95th percentile per-packet one-way delay: 73.073 ms

Loss rate: 29.94%

Run 10: Report of FillP-Sheep — Data Link

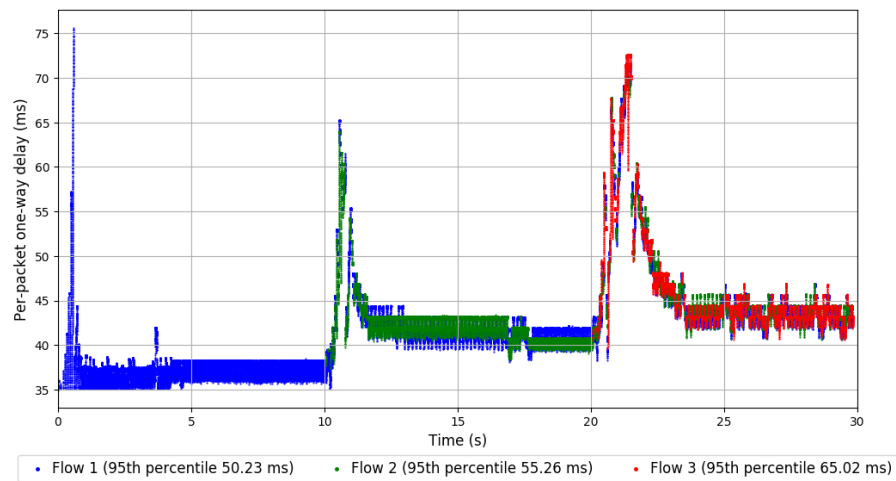
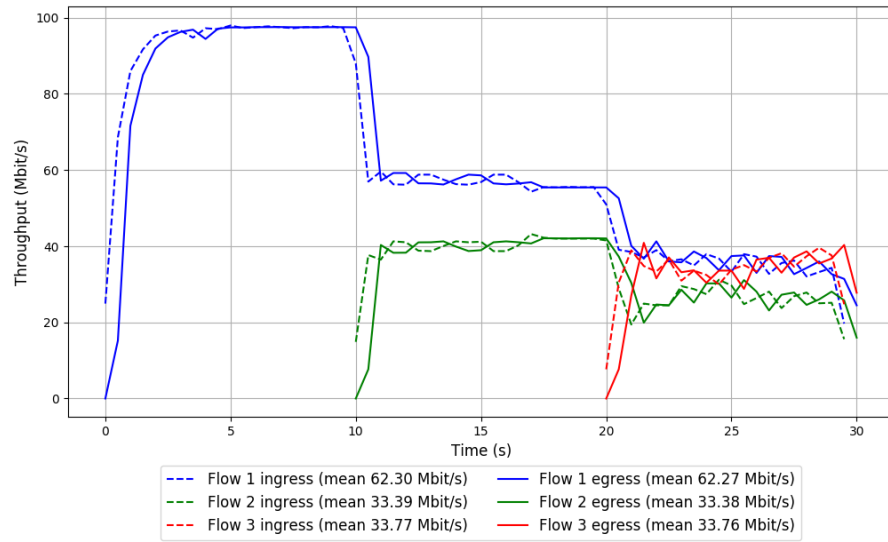


```
Run 1: Statistics of Indigo

Start at: 2018-08-01 07:45:08
End at: 2018-08-01 07:45:38
Local clock offset: 0.784 ms
Remote clock offset: 1.689 ms

# Below is generated by plot.py at 2018-08-01 11:44:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.38 Mbit/s
95th percentile per-packet one-way delay: 54.034 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 62.27 Mbit/s
95th percentile per-packet one-way delay: 50.225 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 33.38 Mbit/s
95th percentile per-packet one-way delay: 55.261 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 33.76 Mbit/s
95th percentile per-packet one-way delay: 65.023 ms
Loss rate: 0.00%
```

## Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

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

End at: 2018-08-01 08:08:29

Local clock offset: 0.452 ms

Remote clock offset: 3.487 ms

# Below is generated by plot.py at 2018-08-01 11:44:31

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.14 Mbit/s

95th percentile per-packet one-way delay: 54.948 ms

Loss rate: 0.51%

-- Flow 1:

Average throughput: 67.67 Mbit/s

95th percentile per-packet one-way delay: 50.496 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 26.60 Mbit/s

95th percentile per-packet one-way delay: 57.062 ms

Loss rate: 0.02%

-- Flow 3:

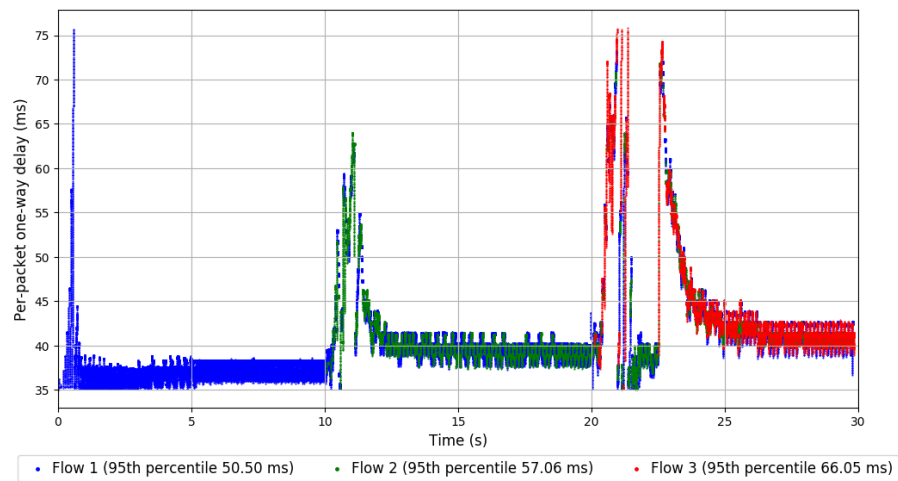
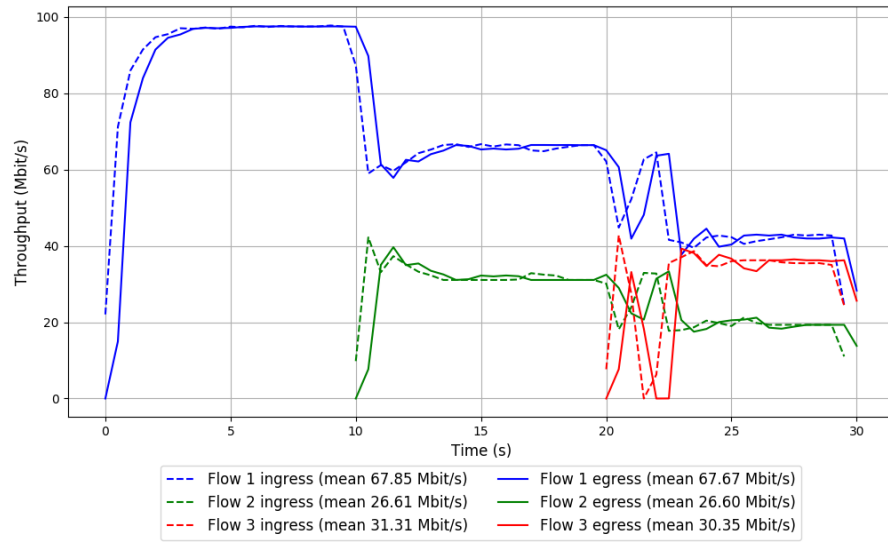
Average throughput: 30.35 Mbit/s

95th percentile per-packet one-way delay: 66.052 ms

Loss rate: 3.07%



## Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-08-01 08:30:52

End at: 2018-08-01 08:31:22

Local clock offset: 0.394 ms

Remote clock offset: 4.966 ms

# Below is generated by plot.py at 2018-08-01 11:44:31

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.27 Mbit/s

95th percentile per-packet one-way delay: 56.595 ms

Loss rate: 0.17%

-- Flow 1:

Average throughput: 61.87 Mbit/s

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

Loss rate: 0.14%

-- Flow 2:

Average throughput: 32.52 Mbit/s

95th percentile per-packet one-way delay: 58.057 ms

Loss rate: 0.34%

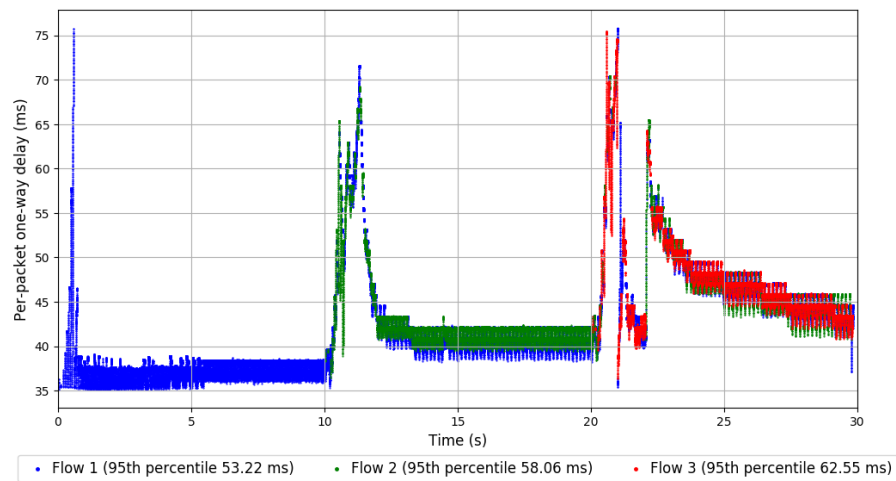
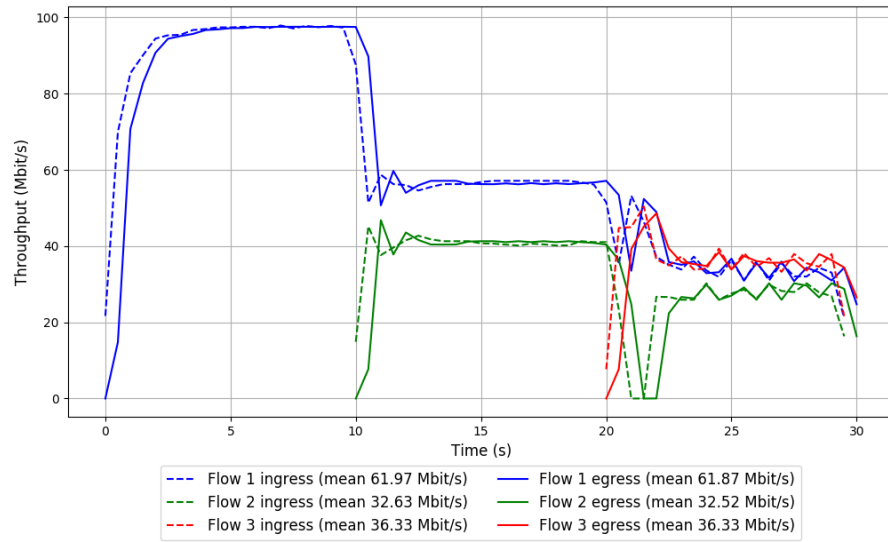
-- Flow 3:

Average throughput: 36.33 Mbit/s

95th percentile per-packet one-way delay: 62.550 ms

Loss rate: 0.00%

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



Run 4: Statistics of Indigo

Start at: 2018-08-01 08:53:47

End at: 2018-08-01 08:54:17

Local clock offset: -0.086 ms

Remote clock offset: 1.894 ms

# Below is generated by plot.py at 2018-08-01 11:44:31

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.18 Mbit/s

95th percentile per-packet one-way delay: 56.952 ms

Loss rate: 1.25%

-- Flow 1:

Average throughput: 63.83 Mbit/s

95th percentile per-packet one-way delay: 49.649 ms

Loss rate: 0.89%

-- Flow 2:

Average throughput: 33.01 Mbit/s

95th percentile per-packet one-way delay: 58.766 ms

Loss rate: 1.33%

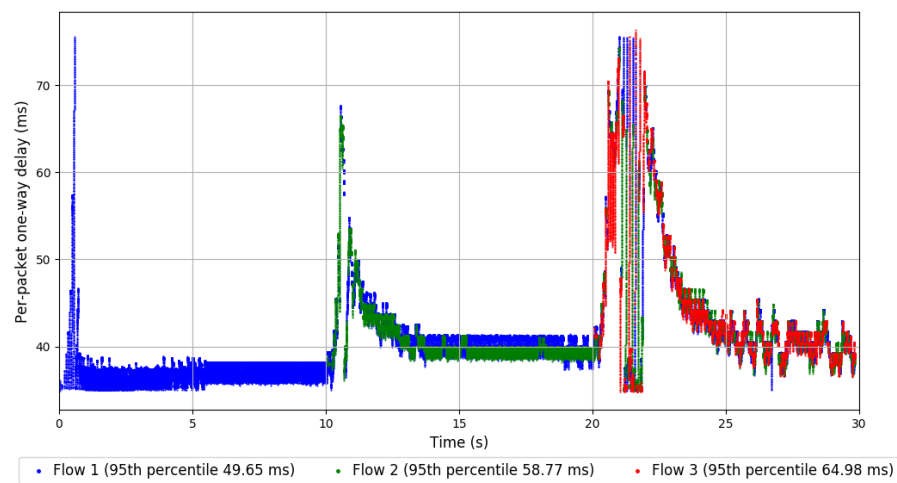
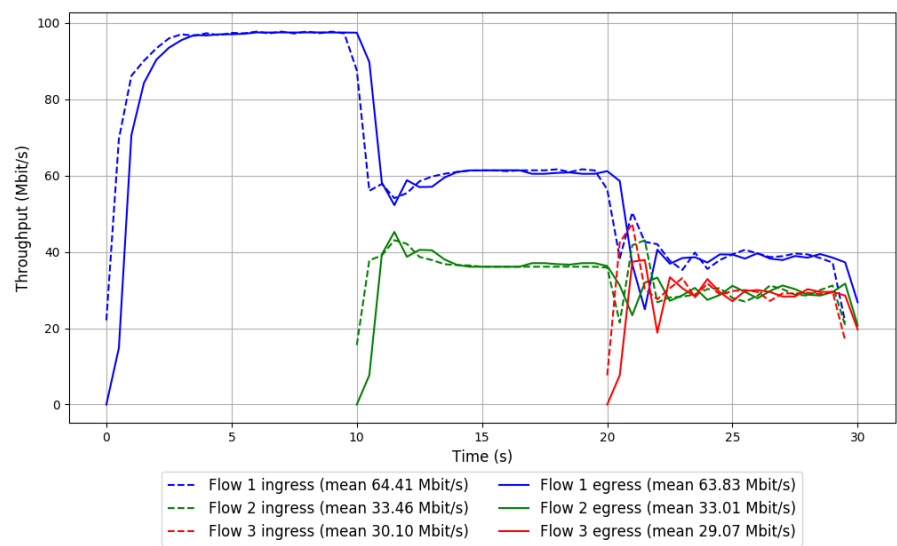
-- Flow 3:

Average throughput: 29.07 Mbit/s

95th percentile per-packet one-way delay: 64.976 ms

Loss rate: 3.43%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-08-01 09:16:41

End at: 2018-08-01 09:17:11

Local clock offset: -3.551 ms

Remote clock offset: 2.137 ms

# Below is generated by plot.py at 2018-08-01 11:45:23

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.63 Mbit/s

95th percentile per-packet one-way delay: 57.900 ms

Loss rate: 0.60%

-- Flow 1:

Average throughput: 68.69 Mbit/s

95th percentile per-packet one-way delay: 54.697 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 26.82 Mbit/s

95th percentile per-packet one-way delay: 61.621 ms

Loss rate: 1.25%

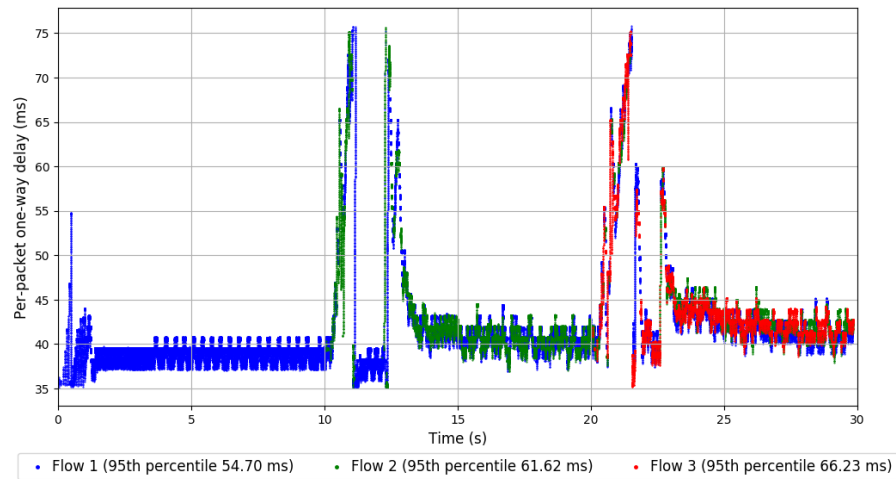
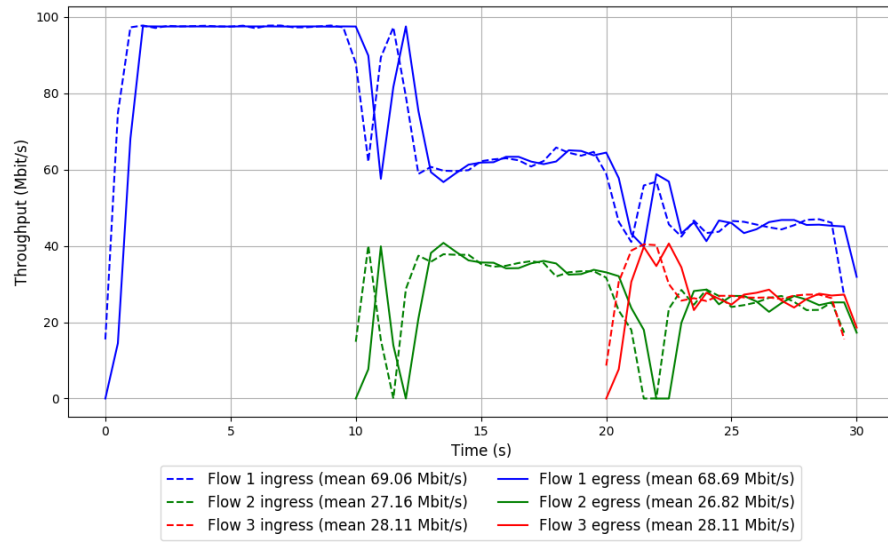
-- Flow 3:

Average throughput: 28.11 Mbit/s

95th percentile per-packet one-way delay: 66.226 ms

Loss rate: 0.00%

## Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2018-08-01 09:39:36

End at: 2018-08-01 09:40:06

Local clock offset: -3.249 ms

Remote clock offset: 2.127 ms

# Below is generated by plot.py at 2018-08-01 11:45:23

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.25 Mbit/s

95th percentile per-packet one-way delay: 56.605 ms

Loss rate: 0.71%

-- Flow 1:

Average throughput: 63.18 Mbit/s

95th percentile per-packet one-way delay: 50.743 ms

Loss rate: 0.61%

-- Flow 2:

Average throughput: 34.27 Mbit/s

95th percentile per-packet one-way delay: 57.898 ms

Loss rate: 0.84%

-- Flow 3:

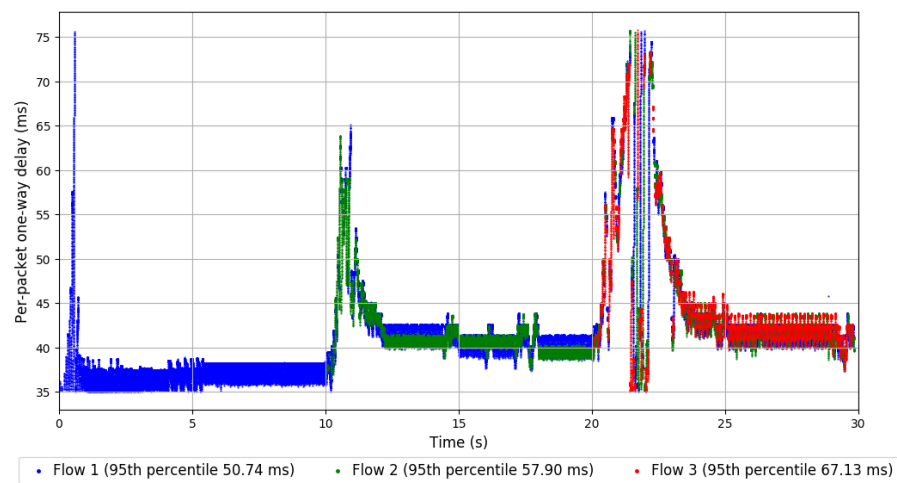
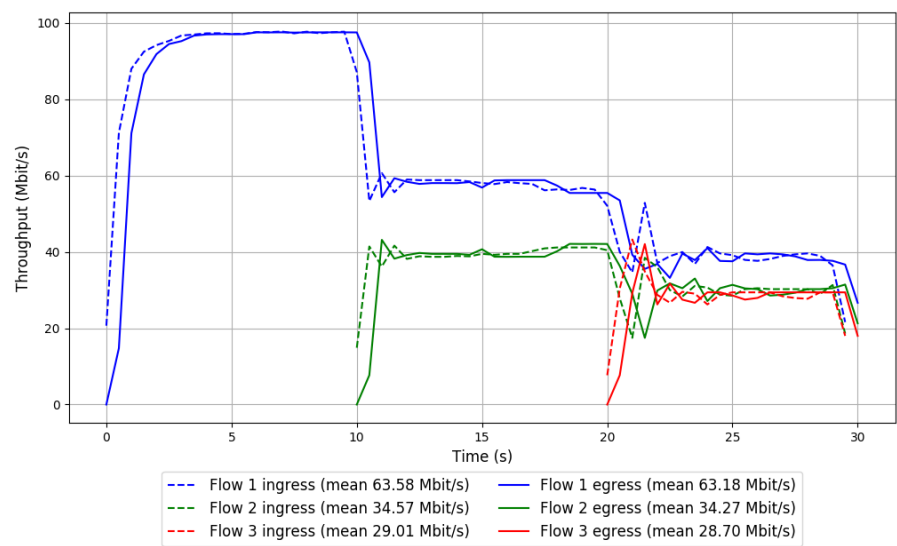
Average throughput: 28.70 Mbit/s

95th percentile per-packet one-way delay: 67.130 ms

Loss rate: 1.06%



Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2018-08-01 10:02:41

End at: 2018-08-01 10:03:11

Local clock offset: -0.71 ms

Remote clock offset: 1.866 ms

# Below is generated by plot.py at 2018-08-01 11:45:25

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.66 Mbit/s

95th percentile per-packet one-way delay: 52.425 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 67.02 Mbit/s

95th percentile per-packet one-way delay: 50.216 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 26.24 Mbit/s

95th percentile per-packet one-way delay: 55.183 ms

Loss rate: 0.00%

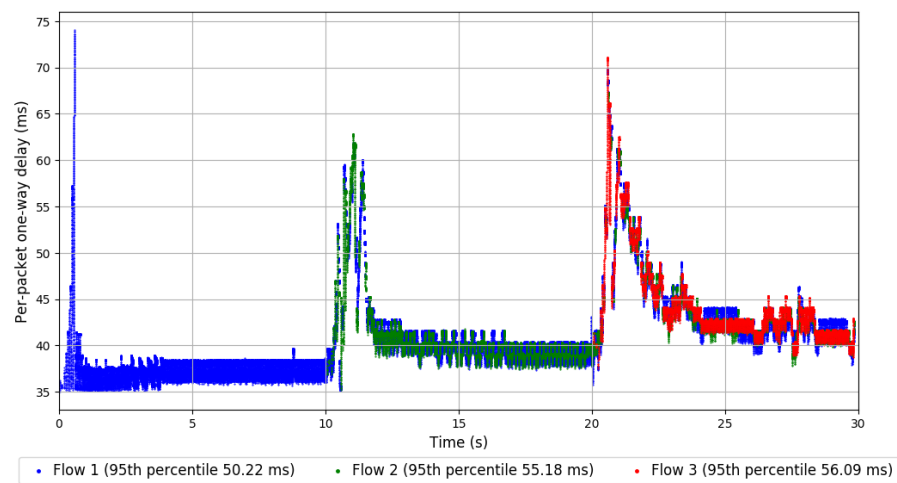
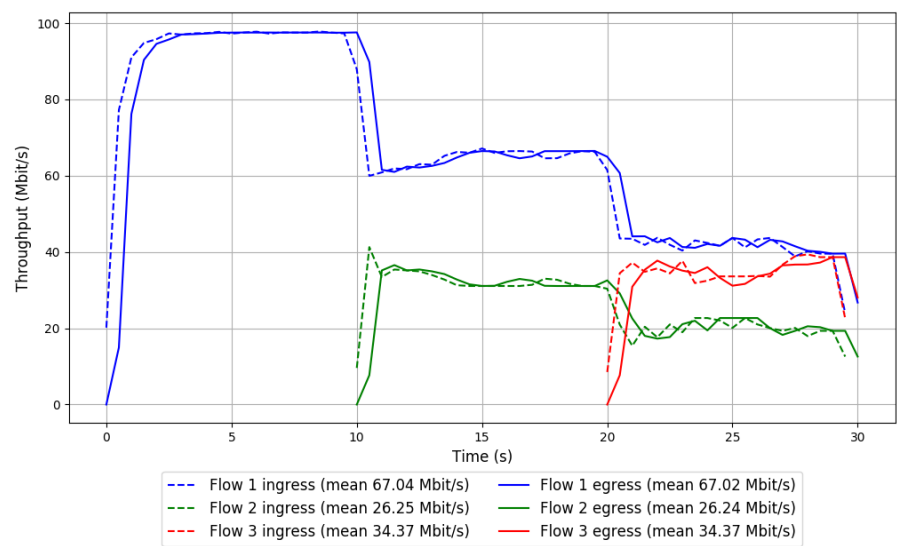
-- Flow 3:

Average throughput: 34.37 Mbit/s

95th percentile per-packet one-way delay: 56.091 ms

Loss rate: 0.00%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2018-08-01 10:25:40

End at: 2018-08-01 10:26:10

Local clock offset: 0.647 ms

Remote clock offset: 1.843 ms

# Below is generated by plot.py at 2018-08-01 11:45:26

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.40 Mbit/s

95th percentile per-packet one-way delay: 48.632 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 64.37 Mbit/s

95th percentile per-packet one-way delay: 47.515 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 35.01 Mbit/s

95th percentile per-packet one-way delay: 55.223 ms

Loss rate: 0.03%

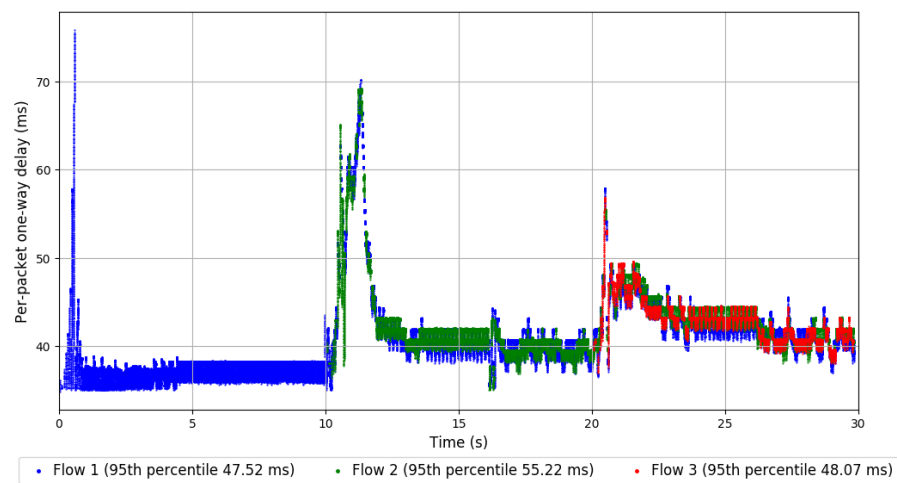
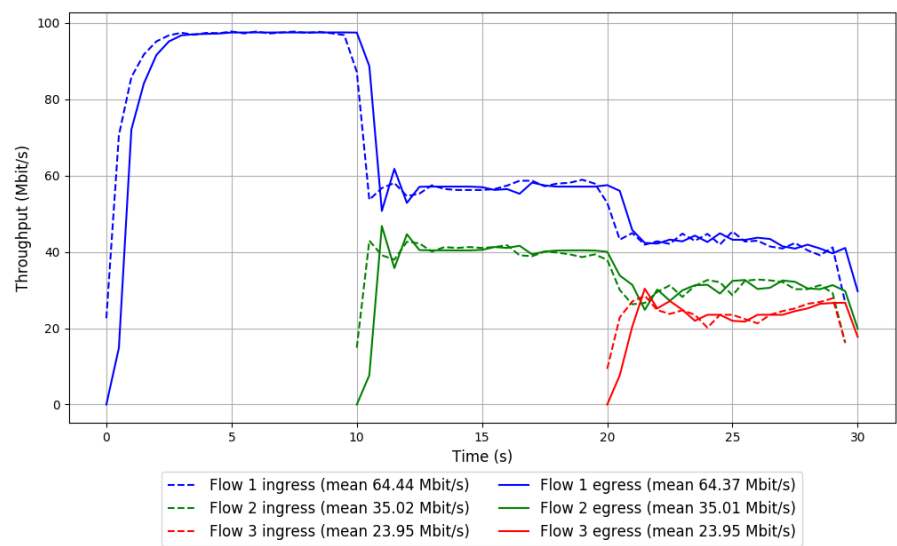
-- Flow 3:

Average throughput: 23.95 Mbit/s

95th percentile per-packet one-way delay: 48.072 ms

Loss rate: 0.00%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2018-08-01 10:48:35

End at: 2018-08-01 10:49:05

Local clock offset: 0.7 ms

Remote clock offset: 1.608 ms

# Below is generated by plot.py at 2018-08-01 11:45:27

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.50 Mbit/s

95th percentile per-packet one-way delay: 52.852 ms

Loss rate: 0.39%

-- Flow 1:

Average throughput: 65.34 Mbit/s

95th percentile per-packet one-way delay: 50.278 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 30.60 Mbit/s

95th percentile per-packet one-way delay: 55.657 ms

Loss rate: 0.55%

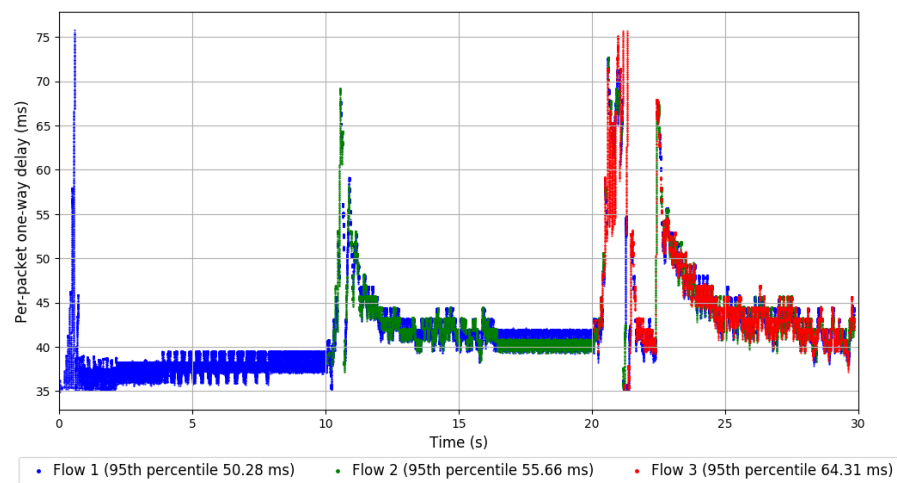
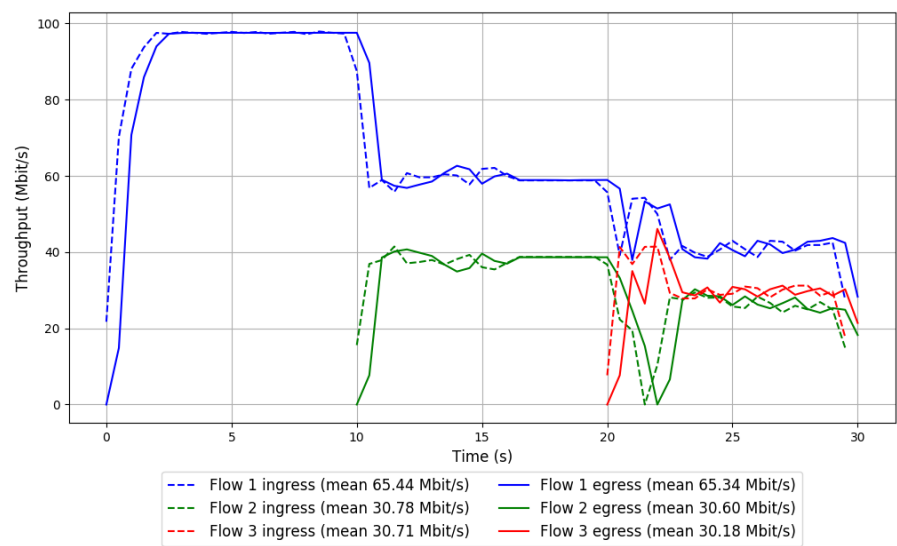
-- Flow 3:

Average throughput: 30.18 Mbit/s

95th percentile per-packet one-way delay: 64.306 ms

Loss rate: 1.74%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-08-01 11:11:26

End at: 2018-08-01 11:11:56

Local clock offset: -2.997 ms

Remote clock offset: 1.78 ms

# Below is generated by plot.py at 2018-08-01 11:45:28

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.72 Mbit/s

95th percentile per-packet one-way delay: 52.072 ms

Loss rate: 0.13%

-- Flow 1:

Average throughput: 67.88 Mbit/s

95th percentile per-packet one-way delay: 47.366 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 26.20 Mbit/s

95th percentile per-packet one-way delay: 55.536 ms

Loss rate: 0.33%

-- Flow 3:

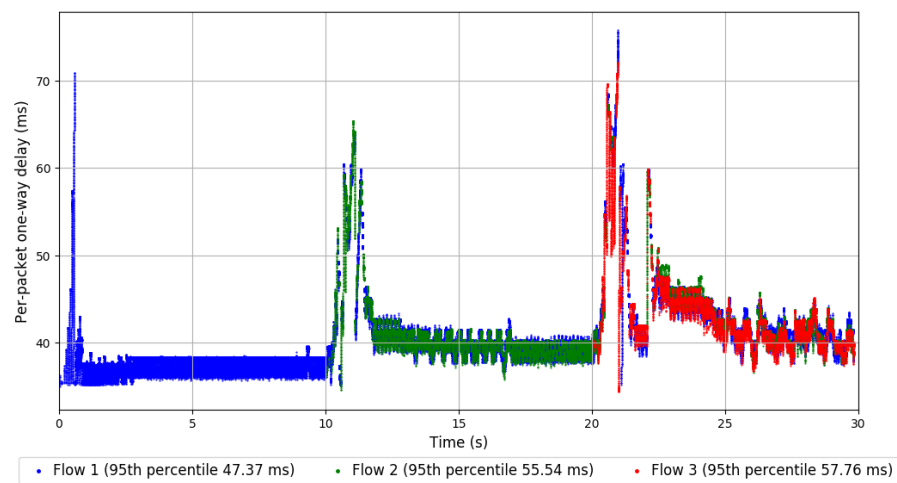
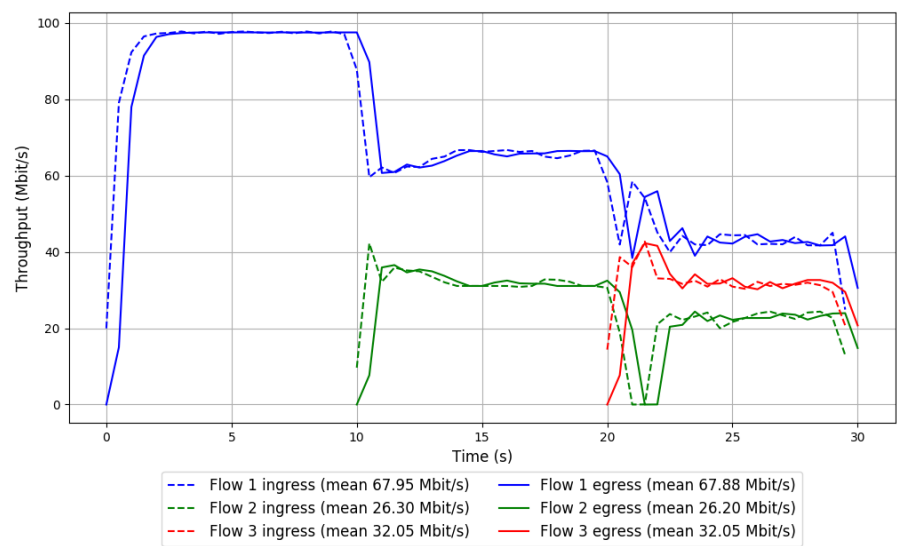
Average throughput: 32.05 Mbit/s

95th percentile per-packet one-way delay: 57.762 ms

Loss rate: 0.00%



Run 10: Report of Indigo — Data Link

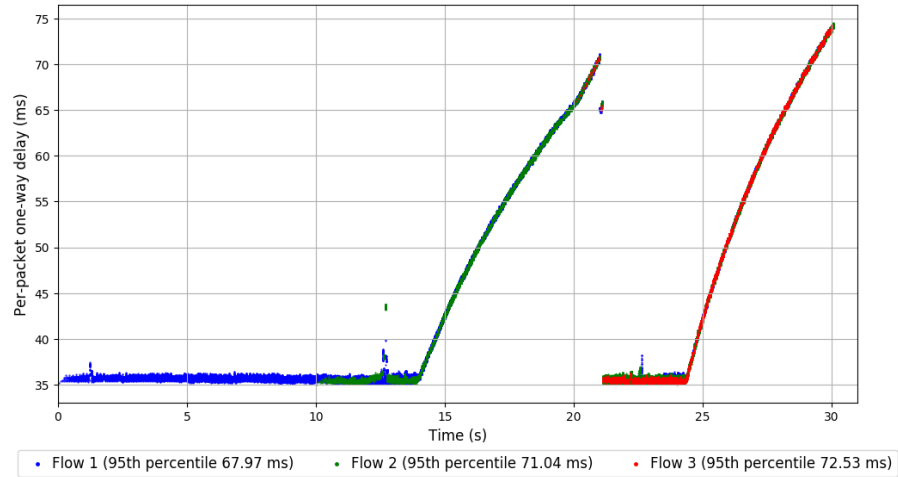
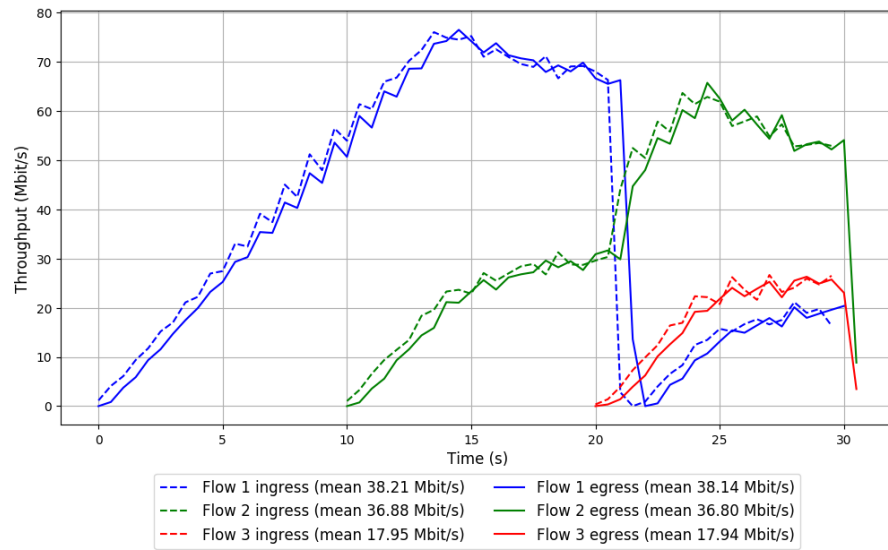


```
Run 1: Statistics of LEDBAT

Start at: 2018-08-01 08:00:00
End at: 2018-08-01 08:00:30
Local clock offset: 0.549 ms
Remote clock offset: 2.553 ms

# Below is generated by plot.py at 2018-08-01 11:45:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 68.51 Mbit/s
95th percentile per-packet one-way delay: 70.081 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 38.14 Mbit/s
95th percentile per-packet one-way delay: 67.971 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 36.80 Mbit/s
95th percentile per-packet one-way delay: 71.036 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 17.94 Mbit/s
95th percentile per-packet one-way delay: 72.533 ms
Loss rate: 0.00%
```

## Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-08-01 08:22:52

End at: 2018-08-01 08:23:22

Local clock offset: 0.555 ms

Remote clock offset: 4.622 ms

# Below is generated by plot.py at 2018-08-01 11:45:28

# Datalink statistics

-- Total of 3 flows:

Average throughput: 60.33 Mbit/s

95th percentile per-packet one-way delay: 69.647 ms

Loss rate: 0.21%

-- Flow 1:

Average throughput: 40.09 Mbit/s

95th percentile per-packet one-way delay: 69.636 ms

Loss rate: 0.20%

-- Flow 2:

Average throughput: 19.13 Mbit/s

95th percentile per-packet one-way delay: 71.134 ms

Loss rate: 0.38%

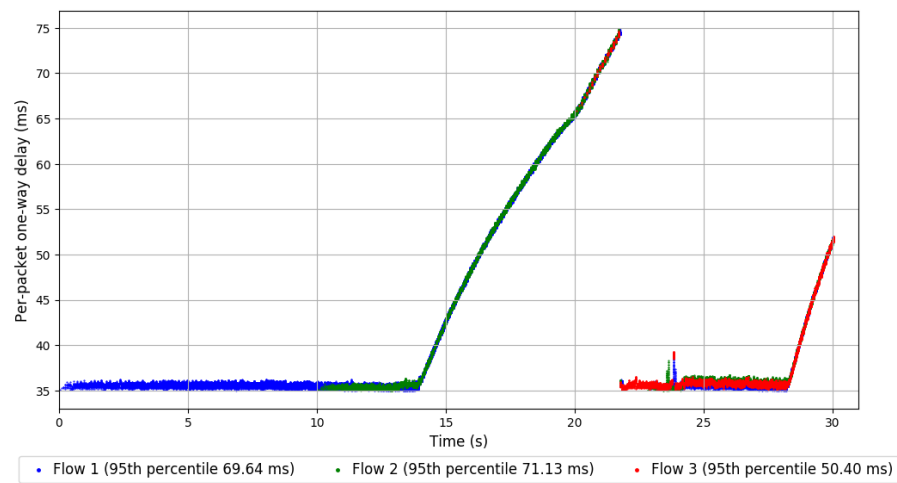
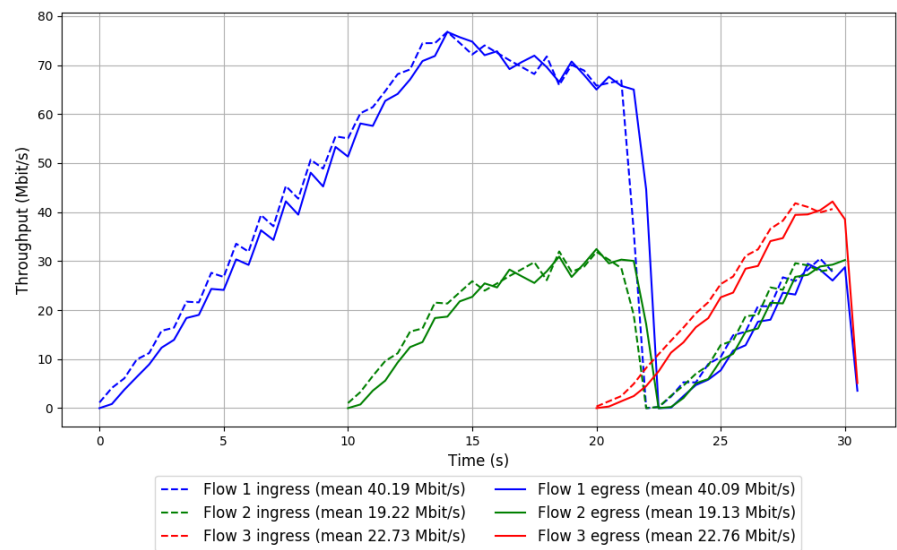
-- Flow 3:

Average throughput: 22.76 Mbit/s

95th percentile per-packet one-way delay: 50.398 ms

Loss rate: 0.00%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-08-01 08:45:45

End at: 2018-08-01 08:46:15

Local clock offset: 0.256 ms

Remote clock offset: 2.313 ms

# Below is generated by plot.py at 2018-08-01 11:46:07

# Datalink statistics

-- Total of 3 flows:

Average throughput: 59.73 Mbit/s

95th percentile per-packet one-way delay: 69.992 ms

Loss rate: 0.21%

-- Flow 1:

Average throughput: 40.27 Mbit/s

95th percentile per-packet one-way delay: 70.006 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 18.95 Mbit/s

95th percentile per-packet one-way delay: 71.247 ms

Loss rate: 0.65%

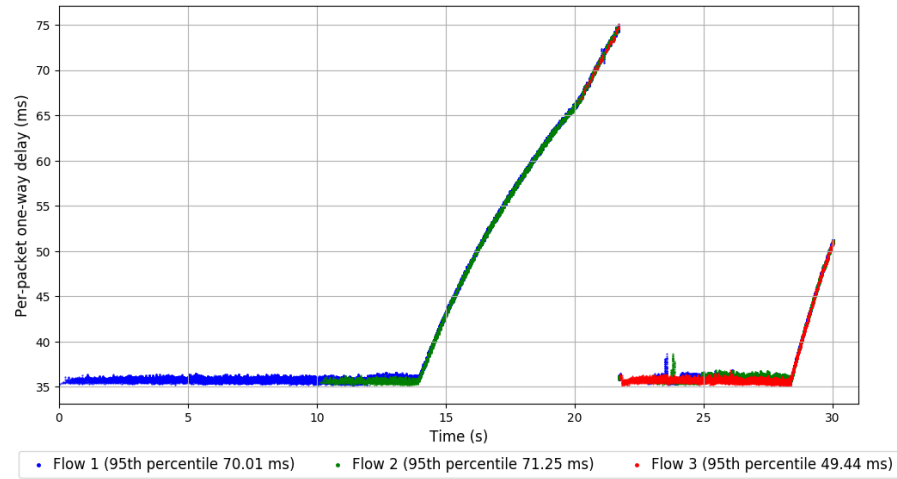
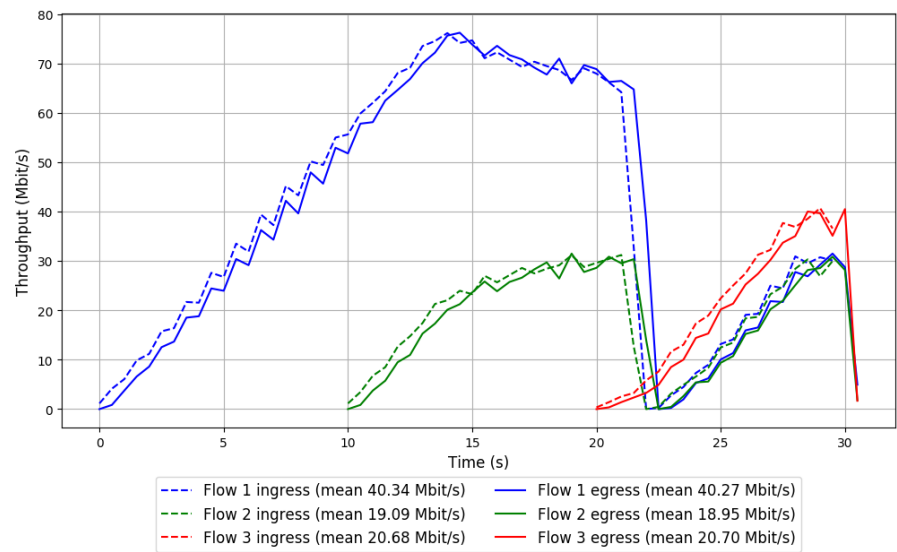
-- Flow 3:

Average throughput: 20.70 Mbit/s

95th percentile per-packet one-way delay: 49.439 ms

Loss rate: 0.05%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-08-01 09:08:41

End at: 2018-08-01 09:09:11

Local clock offset: -2.853 ms

Remote clock offset: 1.852 ms

# Below is generated by plot.py at 2018-08-01 11:46:16

# Datalink statistics

-- Total of 3 flows:

Average throughput: 67.92 Mbit/s

95th percentile per-packet one-way delay: 69.689 ms

Loss rate: 0.21%

-- Flow 1:

Average throughput: 37.60 Mbit/s

95th percentile per-packet one-way delay: 66.118 ms

Loss rate: 0.24%

-- Flow 2:

Average throughput: 37.30 Mbit/s

95th percentile per-packet one-way delay: 71.339 ms

Loss rate: 0.06%

-- Flow 3:

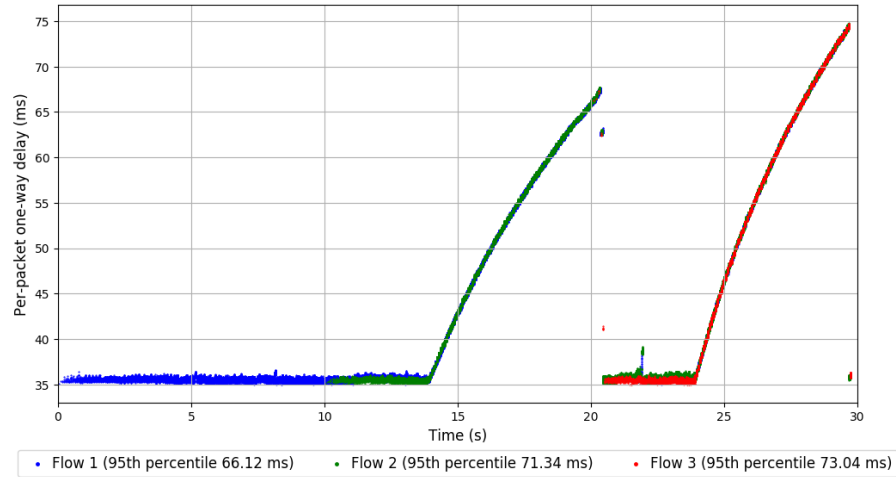
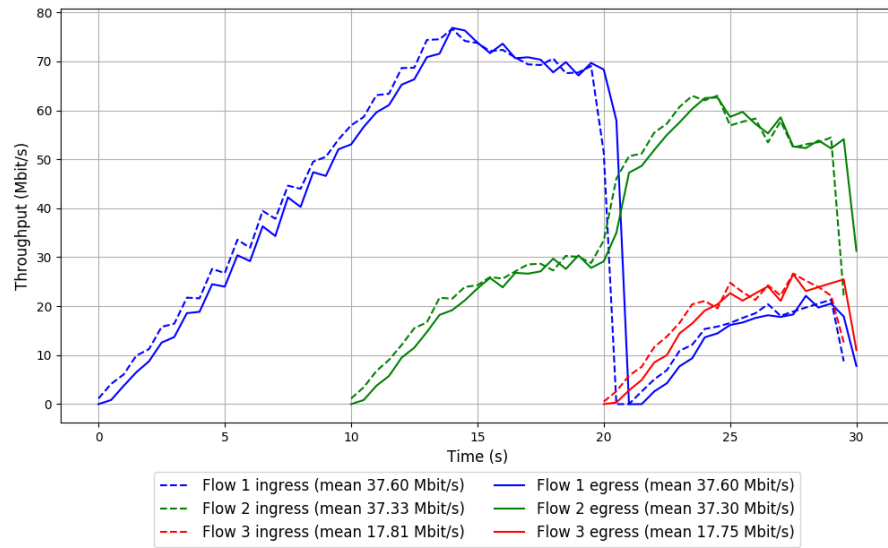
Average throughput: 17.75 Mbit/s

95th percentile per-packet one-way delay: 73.038 ms

Loss rate: 0.67%



# Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-08-01 09:31:33

End at: 2018-08-01 09:32:03

Local clock offset: -3.298 ms

Remote clock offset: 2.059 ms

# Below is generated by plot.py at 2018-08-01 11:46:17

# Datalink statistics

-- Total of 3 flows:

Average throughput: 67.48 Mbit/s

95th percentile per-packet one-way delay: 66.339 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 38.78 Mbit/s

95th percentile per-packet one-way delay: 66.539 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 33.28 Mbit/s

95th percentile per-packet one-way delay: 66.480 ms

Loss rate: 0.07%

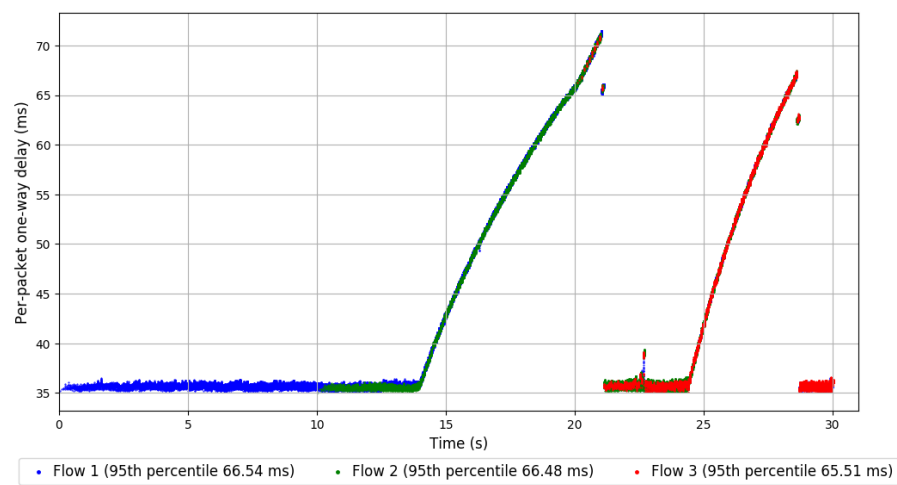
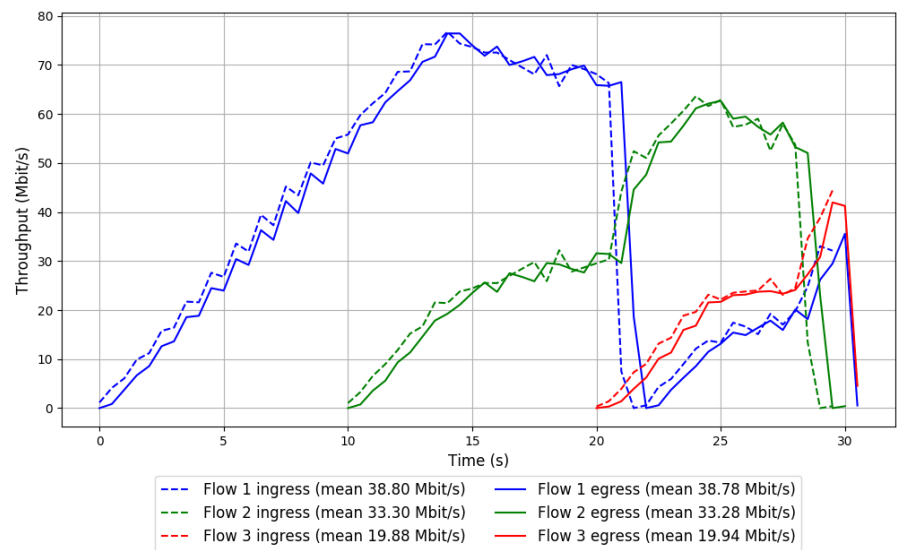
-- Flow 3:

Average throughput: 19.94 Mbit/s

95th percentile per-packet one-way delay: 65.507 ms

Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-08-01 09:54:39

End at: 2018-08-01 09:55:09

Local clock offset: -2.679 ms

Remote clock offset: 1.985 ms

# Below is generated by plot.py at 2018-08-01 11:46:17

# Datalink statistics

-- Total of 3 flows:

Average throughput: 60.56 Mbit/s

95th percentile per-packet one-way delay: 70.262 ms

Loss rate: 0.21%

-- Flow 1:

Average throughput: 40.01 Mbit/s

95th percentile per-packet one-way delay: 70.311 ms

Loss rate: 0.27%

-- Flow 2:

Average throughput: 19.59 Mbit/s

95th percentile per-packet one-way delay: 71.796 ms

Loss rate: 0.16%

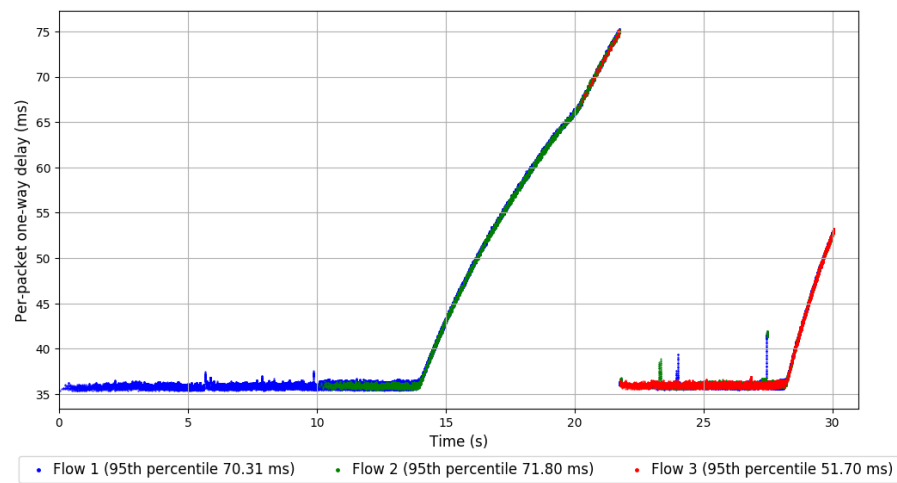
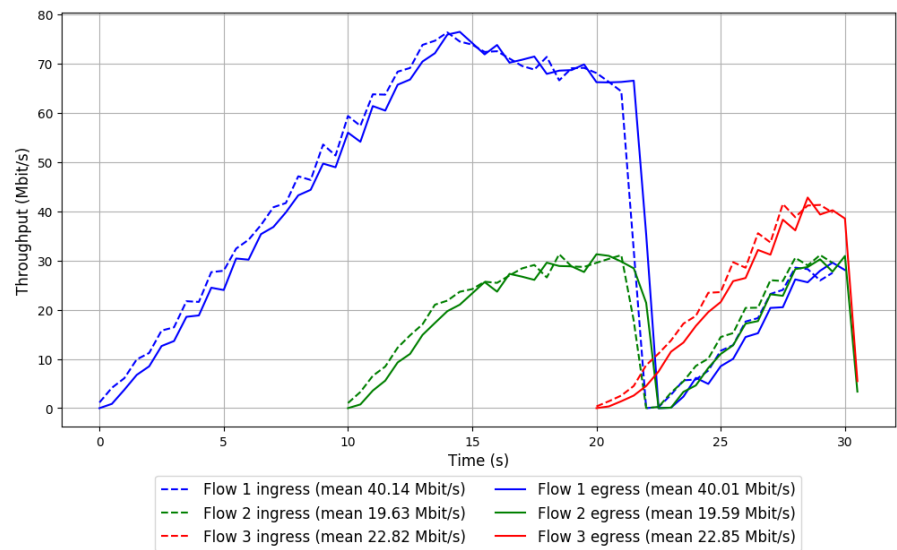
-- Flow 3:

Average throughput: 22.85 Mbit/s

95th percentile per-packet one-way delay: 51.705 ms

Loss rate: 0.00%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-08-01 10:17:37

End at: 2018-08-01 10:18:07

Local clock offset: 0.556 ms

Remote clock offset: 1.95 ms

# Below is generated by plot.py at 2018-08-01 11:46:19

# Datalink statistics

-- Total of 3 flows:

Average throughput: 65.57 Mbit/s

95th percentile per-packet one-way delay: 67.530 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 49.02 Mbit/s

95th percentile per-packet one-way delay: 67.794 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 17.96 Mbit/s

95th percentile per-packet one-way delay: 65.385 ms

Loss rate: 0.15%

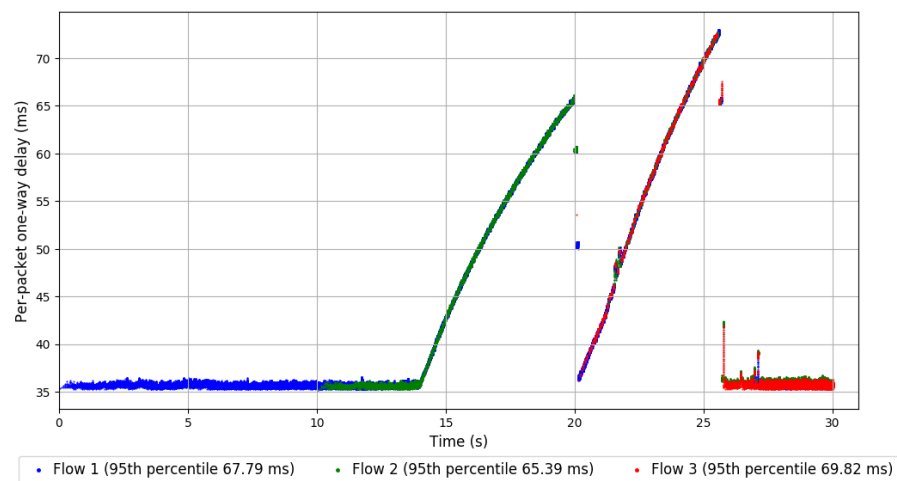
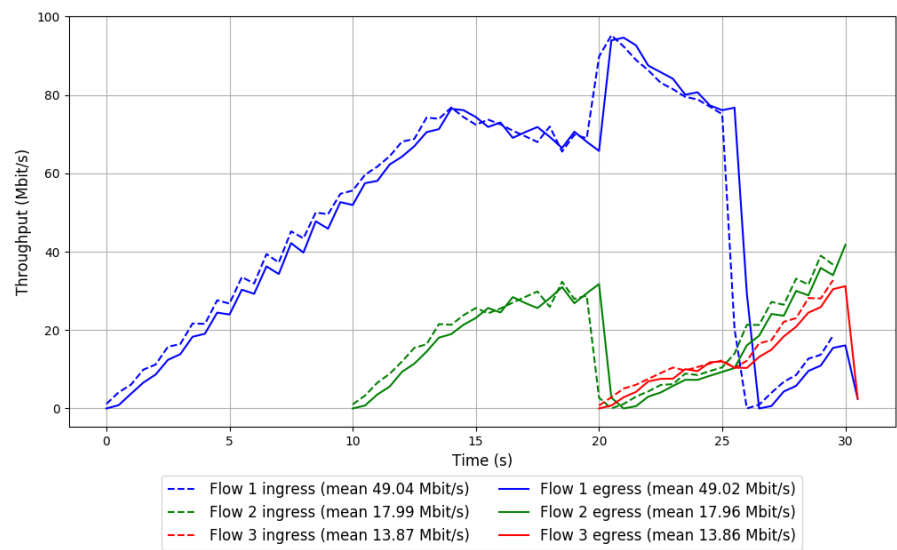
-- Flow 3:

Average throughput: 13.86 Mbit/s

95th percentile per-packet one-way delay: 69.819 ms

Loss rate: 0.24%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-08-01 10:40:33

End at: 2018-08-01 10:41:03

Local clock offset: 0.506 ms

Remote clock offset: 1.681 ms

# Below is generated by plot.py at 2018-08-01 11:46:19

# Datalink statistics

-- Total of 3 flows:

Average throughput: 64.60 Mbit/s

95th percentile per-packet one-way delay: 66.446 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 44.64 Mbit/s

95th percentile per-packet one-way delay: 66.386 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 19.00 Mbit/s

95th percentile per-packet one-way delay: 68.393 ms

Loss rate: 0.15%

-- Flow 3:

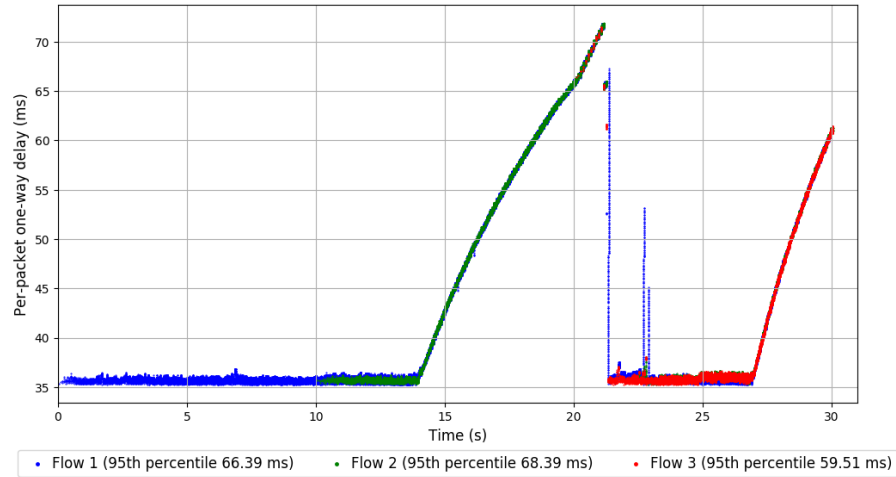
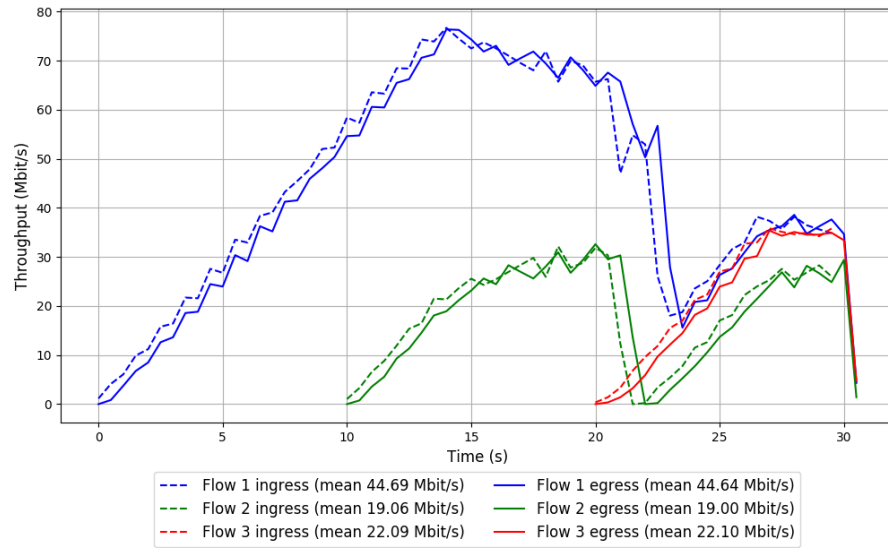
Average throughput: 22.10 Mbit/s

95th percentile per-packet one-way delay: 59.506 ms

Loss rate: 0.00%



# Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-08-01 11:03:26

End at: 2018-08-01 11:03:56

Local clock offset: -2.052 ms

Remote clock offset: 1.692 ms

# Below is generated by plot.py at 2018-08-01 11:46:22

# Datalink statistics

-- Total of 3 flows:

Average throughput: 68.83 Mbit/s

95th percentile per-packet one-way delay: 70.052 ms

Loss rate: 0.18%

-- Flow 1:

Average throughput: 38.54 Mbit/s

95th percentile per-packet one-way delay: 70.063 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 36.58 Mbit/s

95th percentile per-packet one-way delay: 70.100 ms

Loss rate: 0.00%

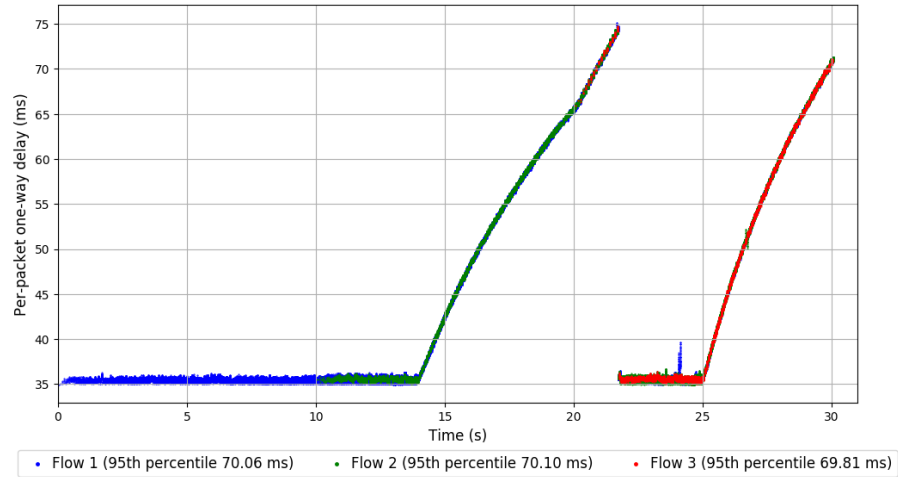
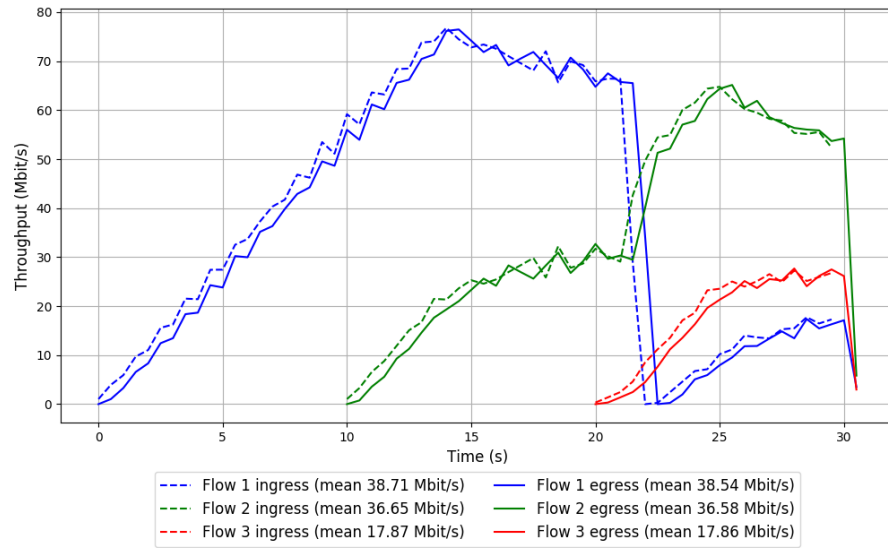
-- Flow 3:

Average throughput: 17.86 Mbit/s

95th percentile per-packet one-way delay: 69.807 ms

Loss rate: 0.00%

## Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-08-01 11:26:23

End at: 2018-08-01 11:26:53

Local clock offset: -3.684 ms

Remote clock offset: 1.757 ms

# Below is generated by plot.py at 2018-08-01 11:46:22

# Datalink statistics

-- Total of 3 flows:

Average throughput: 59.72 Mbit/s

95th percentile per-packet one-way delay: 69.390 ms

Loss rate: 0.21%

-- Flow 1:

Average throughput: 39.84 Mbit/s

95th percentile per-packet one-way delay: 69.379 ms

Loss rate: 0.23%

-- Flow 2:

Average throughput: 19.41 Mbit/s

95th percentile per-packet one-way delay: 71.050 ms

Loss rate: 0.24%

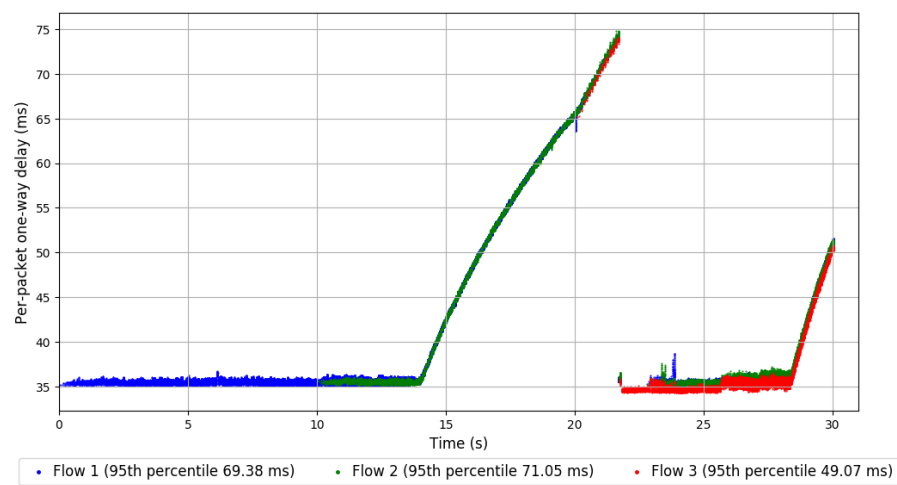
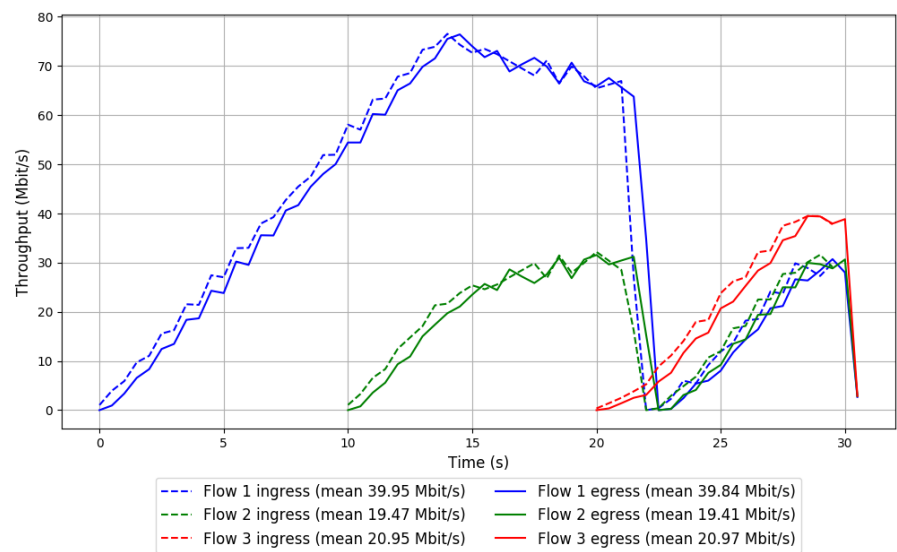
-- Flow 3:

Average throughput: 20.97 Mbit/s

95th percentile per-packet one-way delay: 49.071 ms

Loss rate: 0.04%

Run 10: Report of LEDBAT — Data Link

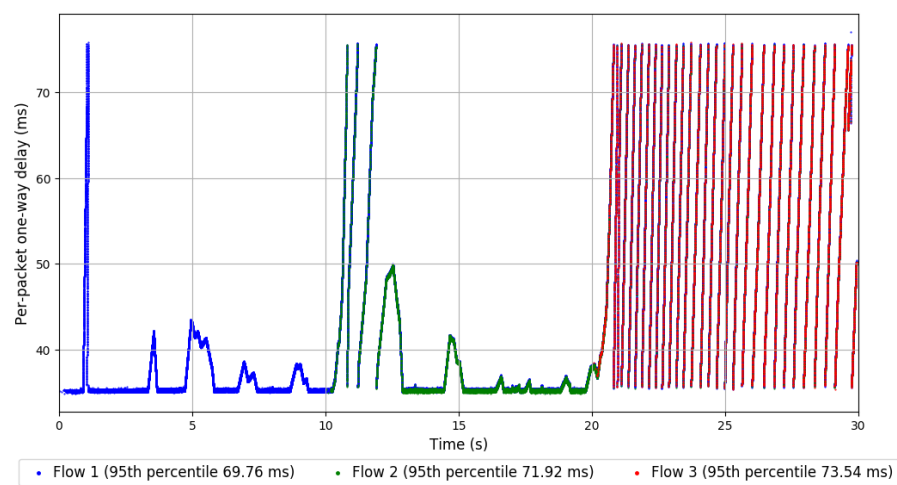
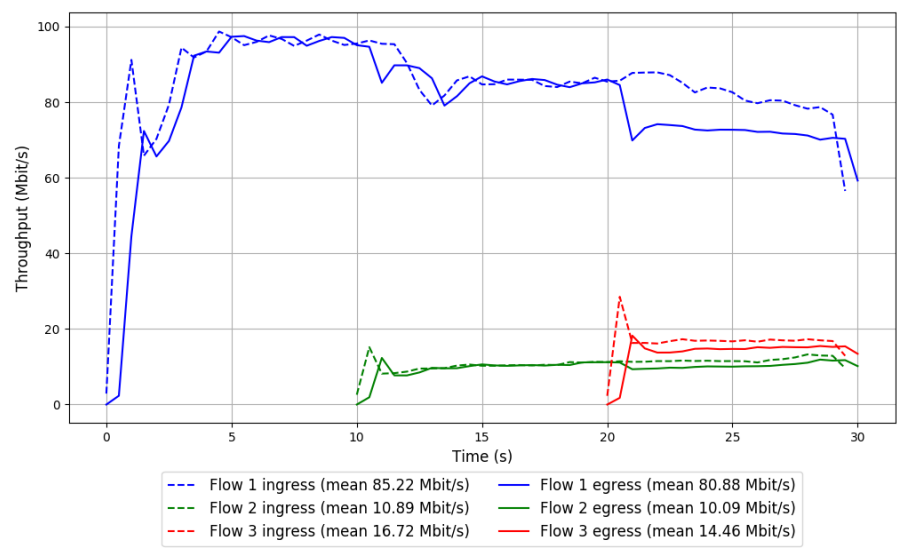


```
Run 1: Statistics of PCC-Allegro

Start at: 2018-08-01 08:01:20
End at: 2018-08-01 08:01:50
Local clock offset: 0.52 ms
Remote clock offset: 2.722 ms

# Below is generated by plot.py at 2018-08-01 11:47:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.37 Mbit/s
95th percentile per-packet one-way delay: 70.507 ms
Loss rate: 5.67%
-- Flow 1:
Average throughput: 80.88 Mbit/s
95th percentile per-packet one-way delay: 69.764 ms
Loss rate: 5.04%
-- Flow 2:
Average throughput: 10.09 Mbit/s
95th percentile per-packet one-way delay: 71.922 ms
Loss rate: 7.22%
-- Flow 3:
Average throughput: 14.46 Mbit/s
95th percentile per-packet one-way delay: 73.542 ms
Loss rate: 13.45%
```

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-08-01 08:24:11

End at: 2018-08-01 08:24:41

Local clock offset: 0.425 ms

Remote clock offset: 4.759 ms

# Below is generated by plot.py at 2018-08-01 11:47:22

# Datalink statistics

-- Total of 3 flows:

Average throughput: 90.88 Mbit/s

95th percentile per-packet one-way delay: 70.410 ms

Loss rate: 6.00%

-- Flow 1:

Average throughput: 83.29 Mbit/s

95th percentile per-packet one-way delay: 69.782 ms

Loss rate: 5.44%

-- Flow 2:

Average throughput: 4.83 Mbit/s

95th percentile per-packet one-way delay: 71.727 ms

Loss rate: 7.20%

-- Flow 3:

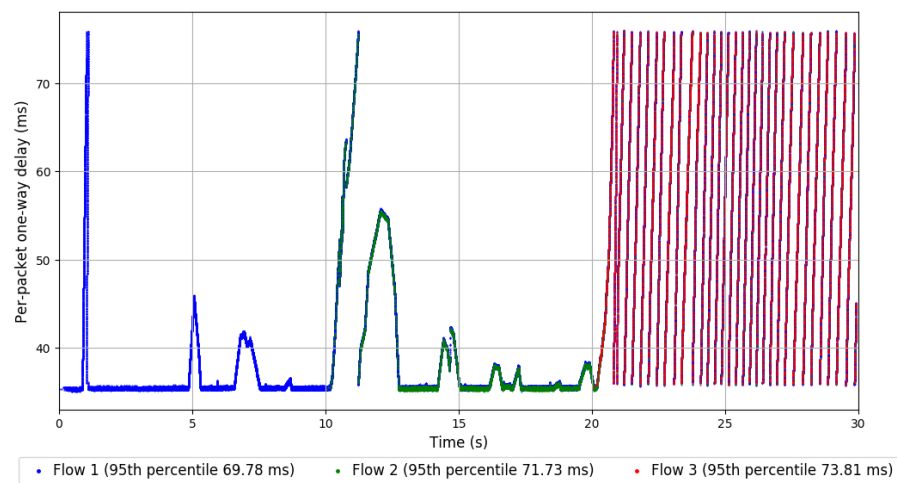
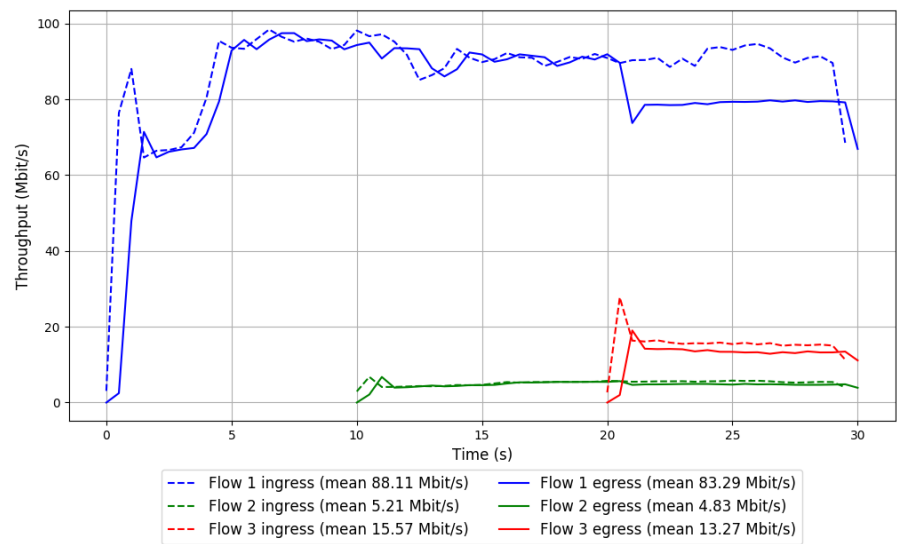
Average throughput: 13.27 Mbit/s

95th percentile per-packet one-way delay: 73.807 ms

Loss rate: 14.69%



Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-08-01 08:47:04

End at: 2018-08-01 08:47:34

Local clock offset: 0.351 ms

Remote clock offset: 2.246 ms

# Below is generated by plot.py at 2018-08-01 11:47:22

# Datalink statistics

-- Total of 3 flows:

Average throughput: 86.90 Mbit/s

95th percentile per-packet one-way delay: 58.039 ms

Loss rate: 1.58%

-- Flow 1:

Average throughput: 77.03 Mbit/s

95th percentile per-packet one-way delay: 57.891 ms

Loss rate: 1.59%

-- Flow 2:

Average throughput: 9.50 Mbit/s

95th percentile per-packet one-way delay: 59.069 ms

Loss rate: 1.41%

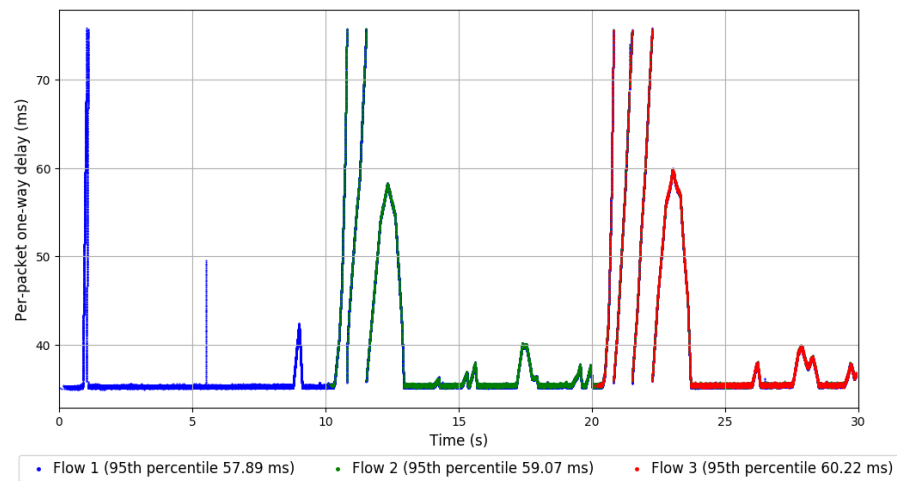
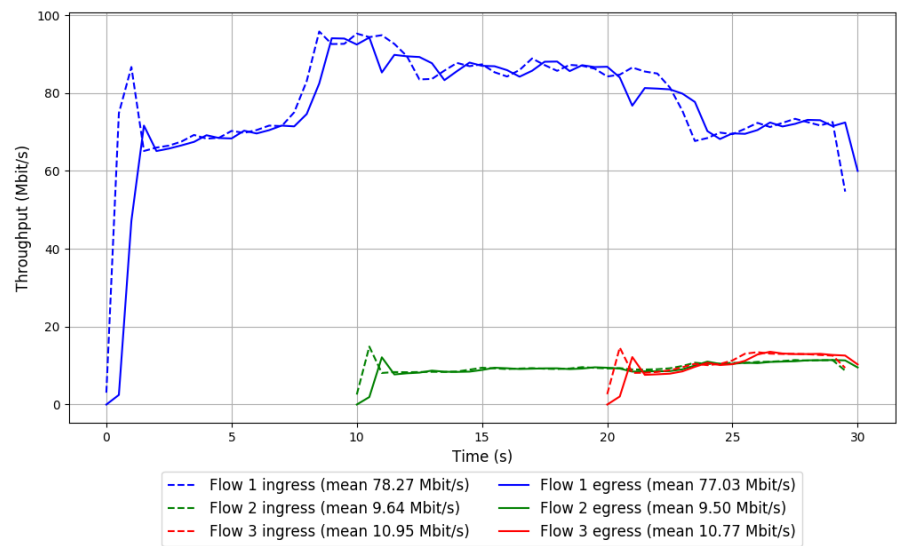
-- Flow 3:

Average throughput: 10.77 Mbit/s

95th percentile per-packet one-way delay: 60.220 ms

Loss rate: 1.68%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-08-01 09:10:01

End at: 2018-08-01 09:10:31

Local clock offset: -2.967 ms

Remote clock offset: 1.892 ms

# Below is generated by plot.py at 2018-08-01 11:47:25

# Datalink statistics

-- Total of 3 flows:

Average throughput: 91.49 Mbit/s

95th percentile per-packet one-way delay: 64.426 ms

Loss rate: 1.18%

-- Flow 1:

Average throughput: 83.19 Mbit/s

95th percentile per-packet one-way delay: 63.768 ms

Loss rate: 1.23%

-- Flow 2:

Average throughput: 10.18 Mbit/s

95th percentile per-packet one-way delay: 68.069 ms

Loss rate: 0.83%

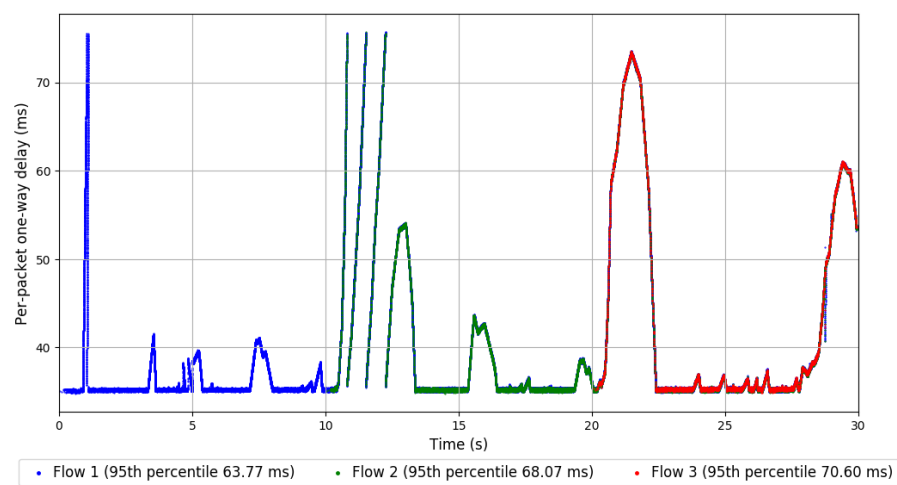
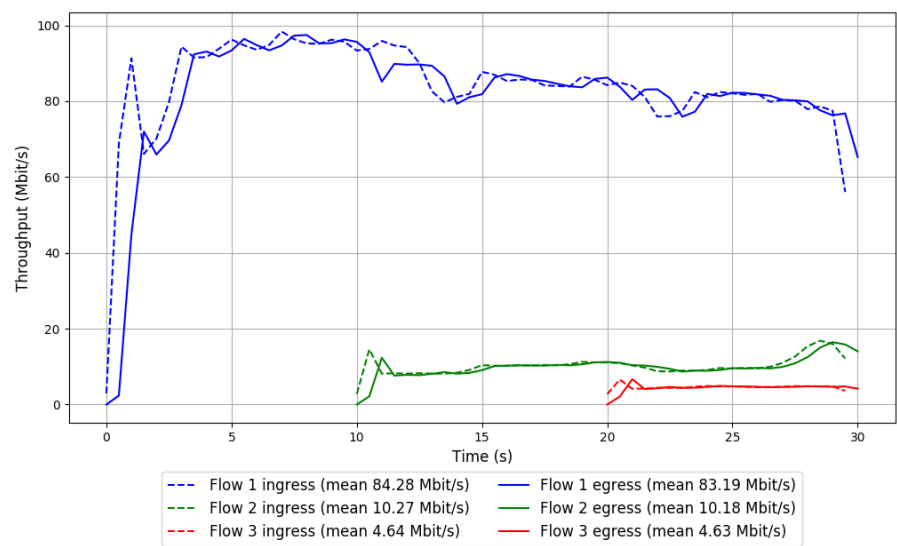
-- Flow 3:

Average throughput: 4.63 Mbit/s

95th percentile per-packet one-way delay: 70.603 ms

Loss rate: 0.00%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-08-01 09:32:53

End at: 2018-08-01 09:33:23

Local clock offset: -3.362 ms

Remote clock offset: 2.051 ms

# Below is generated by plot.py at 2018-08-01 11:47:26

# Datalink statistics

-- Total of 3 flows:

Average throughput: 91.03 Mbit/s

95th percentile per-packet one-way delay: 65.745 ms

Loss rate: 1.85%

-- Flow 1:

Average throughput: 81.03 Mbit/s

95th percentile per-packet one-way delay: 65.833 ms

Loss rate: 1.87%

-- Flow 2:

Average throughput: 10.35 Mbit/s

95th percentile per-packet one-way delay: 67.146 ms

Loss rate: 1.63%

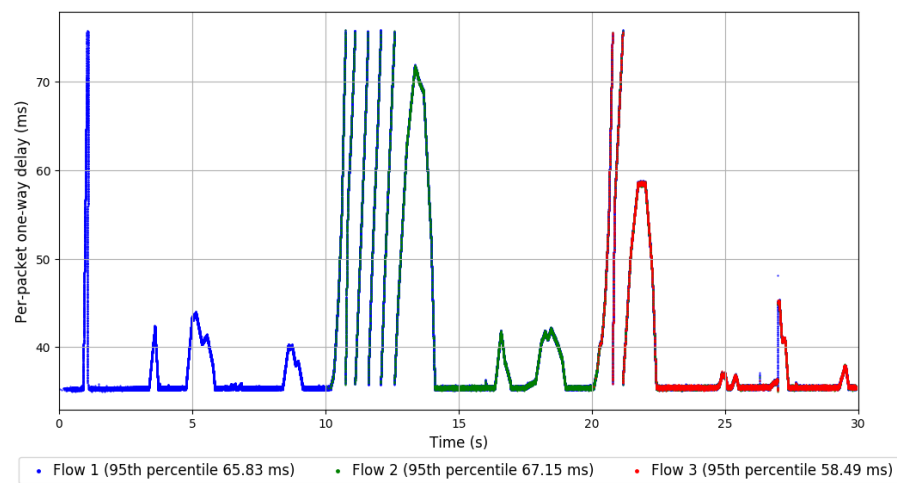
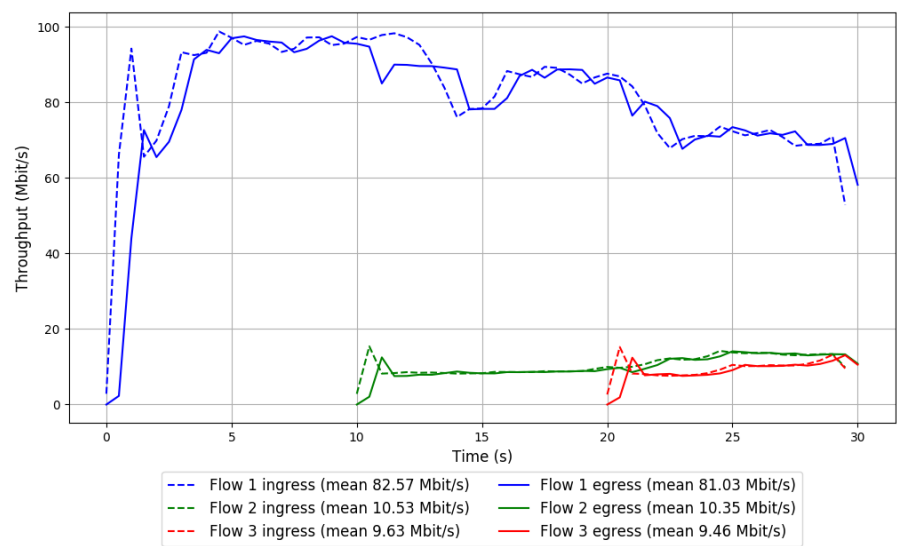
-- Flow 3:

Average throughput: 9.46 Mbit/s

95th percentile per-packet one-way delay: 58.492 ms

Loss rate: 1.71%

Run 5: Report of PCC-Allegro — Data Link



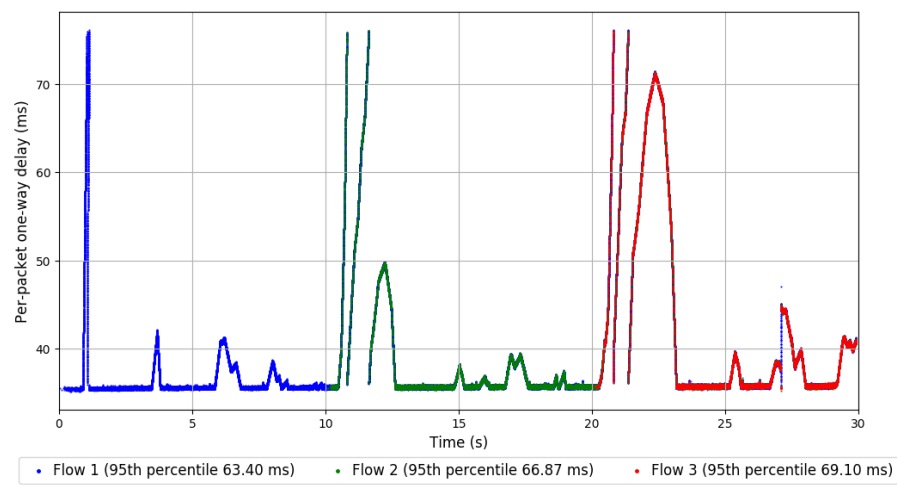
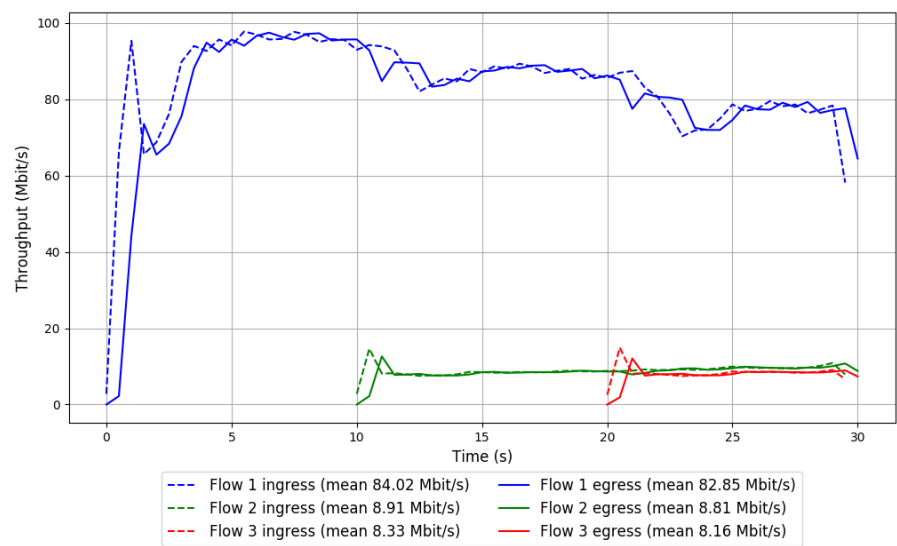
Run 6: Statistics of PCC-Allegro

Start at: 2018-08-01 09:56:00  
End at: 2018-08-01 09:56:30  
Local clock offset: -2.185 ms  
Remote clock offset: 1.981 ms

# Below is generated by plot.py at 2018-08-01 11:47:27  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 91.41 Mbit/s  
95th percentile per-packet one-way delay: 64.273 ms  
Loss rate: 1.37%  
-- Flow 1:  
Average throughput: 82.85 Mbit/s  
95th percentile per-packet one-way delay: 63.404 ms  
Loss rate: 1.37%  
-- Flow 2:  
Average throughput: 8.81 Mbit/s  
95th percentile per-packet one-way delay: 66.867 ms  
Loss rate: 1.11%  
-- Flow 3:  
Average throughput: 8.16 Mbit/s  
95th percentile per-packet one-way delay: 69.100 ms  
Loss rate: 1.98%



Run 6: Report of PCC-Allegro — Data Link



Run 7: Statistics of PCC-Allegro

Start at: 2018-08-01 10:18:58

End at: 2018-08-01 10:19:28

Local clock offset: 0.629 ms

Remote clock offset: 1.911 ms

# Below is generated by plot.py at 2018-08-01 11:47:28

# Datalink statistics

-- Total of 3 flows:

Average throughput: 91.30 Mbit/s

95th percentile per-packet one-way delay: 59.114 ms

Loss rate: 1.80%

-- Flow 1:

Average throughput: 81.74 Mbit/s

95th percentile per-packet one-way delay: 58.988 ms

Loss rate: 1.81%

-- Flow 2:

Average throughput: 10.17 Mbit/s

95th percentile per-packet one-way delay: 61.381 ms

Loss rate: 1.66%

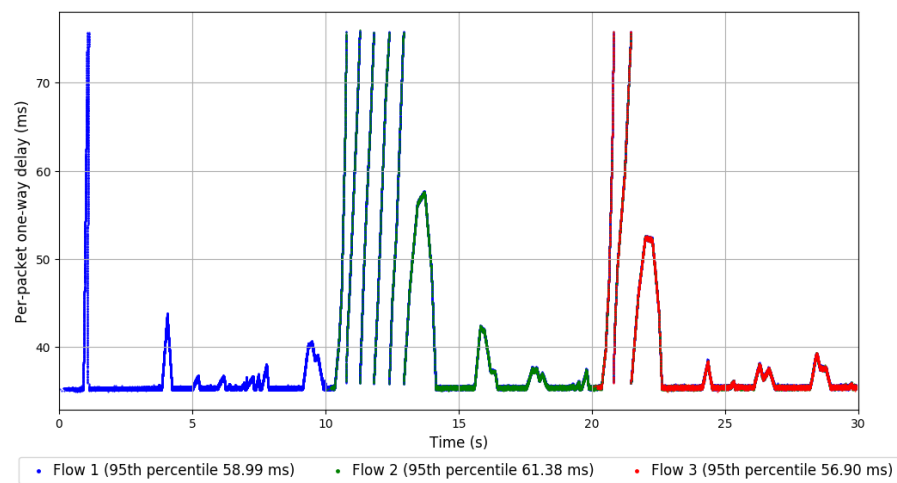
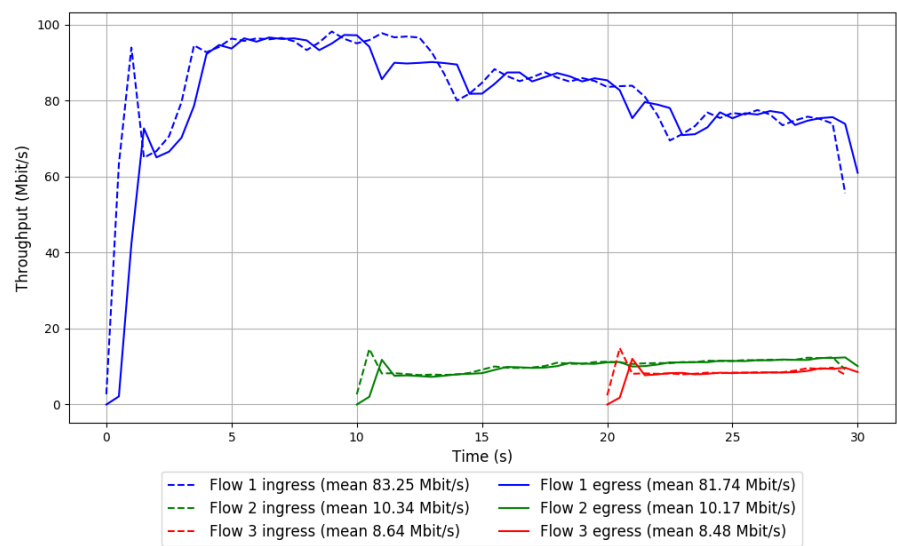
-- Flow 3:

Average throughput: 8.48 Mbit/s

95th percentile per-packet one-way delay: 56.900 ms

Loss rate: 1.89%

Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-08-01 10:41:54

End at: 2018-08-01 10:42:24

Local clock offset: 0.507 ms

Remote clock offset: 1.688 ms

# Below is generated by plot.py at 2018-08-01 11:47:32

# Datalink statistics

-- Total of 3 flows:

Average throughput: 91.91 Mbit/s

95th percentile per-packet one-way delay: 71.392 ms

Loss rate: 4.08%

-- Flow 1:

Average throughput: 78.21 Mbit/s

95th percentile per-packet one-way delay: 70.954 ms

Loss rate: 3.99%

-- Flow 2:

Average throughput: 16.70 Mbit/s

95th percentile per-packet one-way delay: 72.624 ms

Loss rate: 4.66%

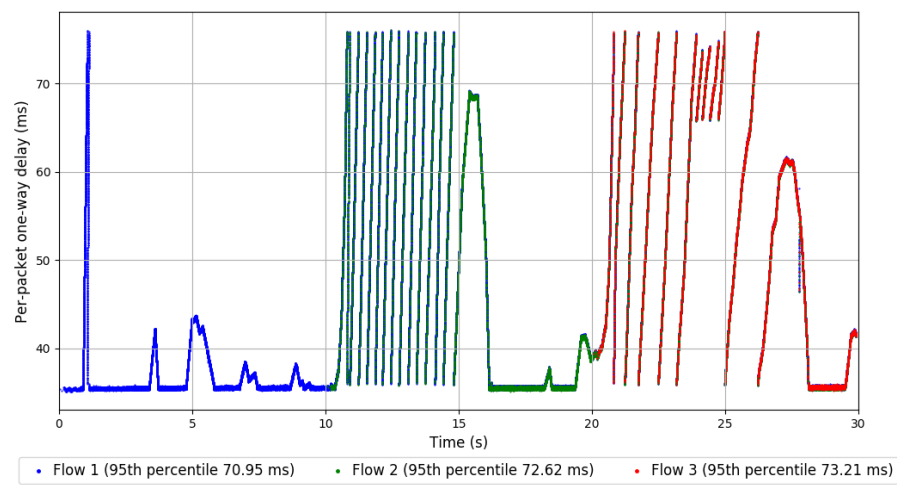
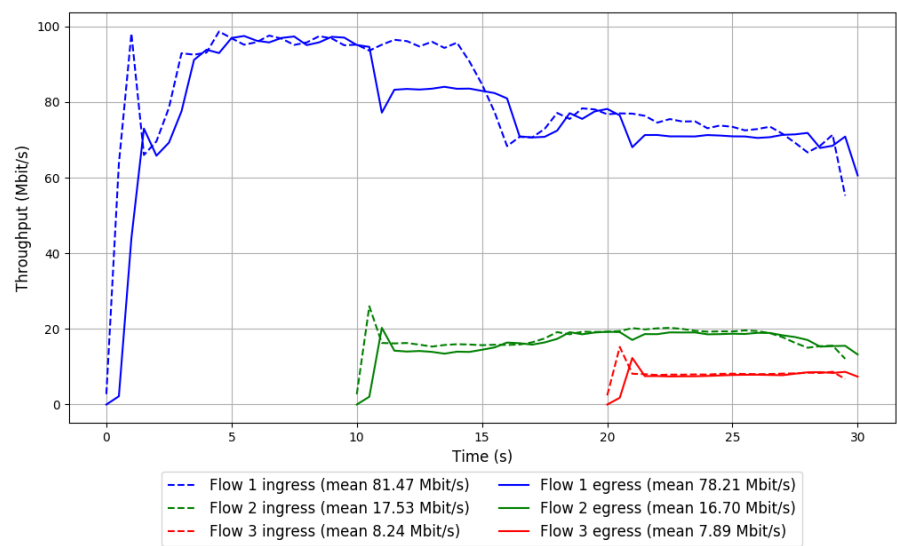
-- Flow 3:

Average throughput: 7.89 Mbit/s

95th percentile per-packet one-way delay: 73.209 ms

Loss rate: 4.27%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-08-01 11:04:46

End at: 2018-08-01 11:05:16

Local clock offset: -2.233 ms

Remote clock offset: 1.748 ms

# Below is generated by plot.py at 2018-08-01 11:48:17

# Datalink statistics

-- Total of 3 flows:

Average throughput: 90.87 Mbit/s

95th percentile per-packet one-way delay: 61.607 ms

Loss rate: 1.42%

-- Flow 1:

Average throughput: 82.33 Mbit/s

95th percentile per-packet one-way delay: 61.230 ms

Loss rate: 1.46%

-- Flow 2:

Average throughput: 10.63 Mbit/s

95th percentile per-packet one-way delay: 65.144 ms

Loss rate: 1.15%

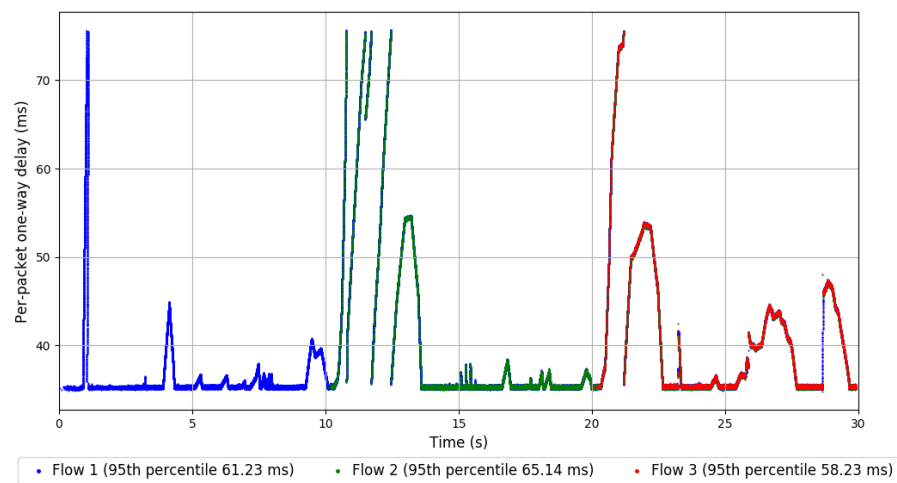
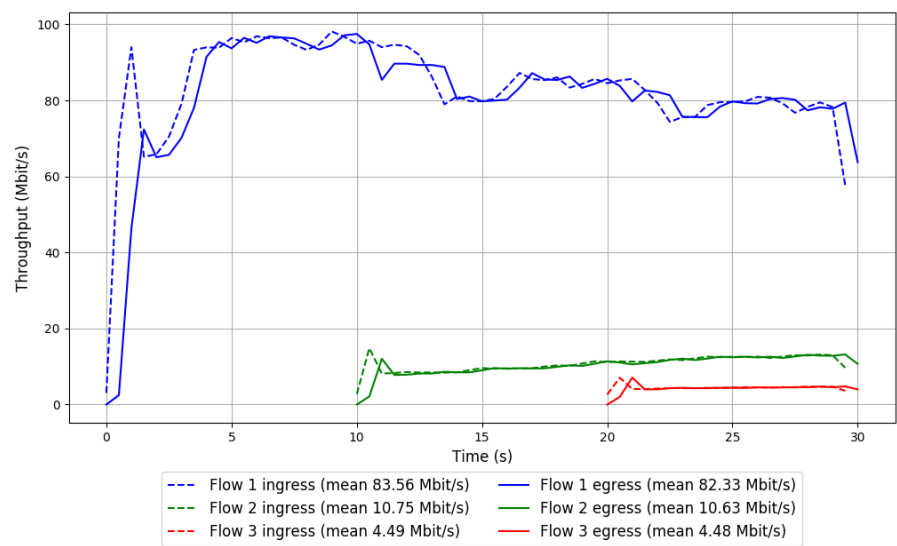
-- Flow 3:

Average throughput: 4.48 Mbit/s

95th percentile per-packet one-way delay: 58.235 ms

Loss rate: 0.36%

Run 9: Report of PCC-Allegro — Data Link



Run 10: Statistics of PCC-Allegro

Start at: 2018-08-01 11:27:43

End at: 2018-08-01 11:28:13

Local clock offset: -3.84 ms

Remote clock offset: 1.775 ms

# Below is generated by plot.py at 2018-08-01 11:48:18

# Datalink statistics

-- Total of 3 flows:

Average throughput: 92.08 Mbit/s

95th percentile per-packet one-way delay: 71.062 ms

Loss rate: 5.25%

-- Flow 1:

Average throughput: 81.53 Mbit/s

95th percentile per-packet one-way delay: 70.619 ms

Loss rate: 4.70%

-- Flow 2:

Average throughput: 8.87 Mbit/s

95th percentile per-packet one-way delay: 71.477 ms

Loss rate: 6.26%

-- Flow 3:

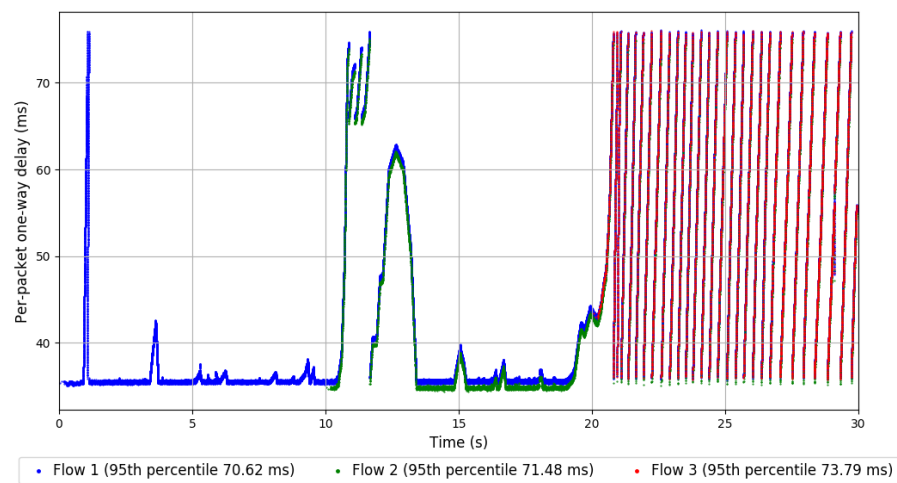
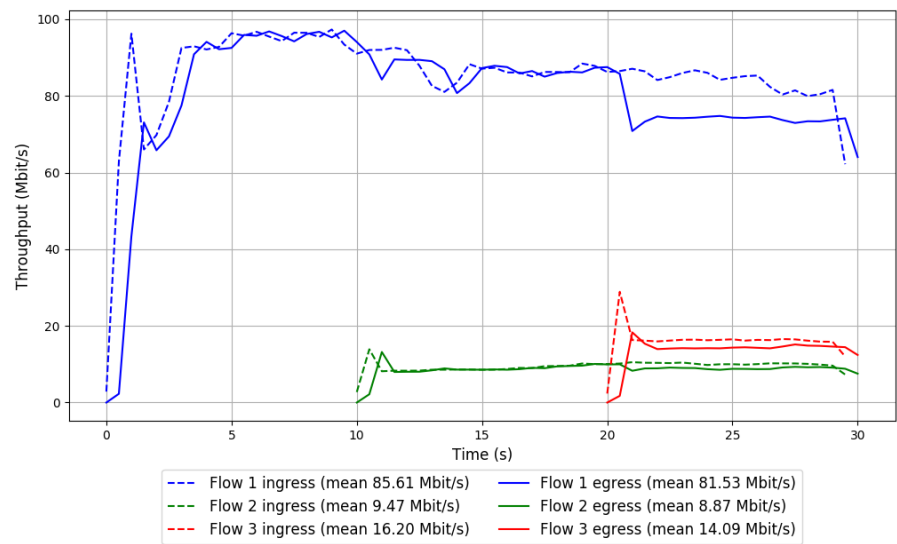
Average throughput: 14.09 Mbit/s

95th percentile per-packet one-way delay: 73.786 ms

Loss rate: 12.95%



Run 10: Report of PCC-Allegro — Data Link

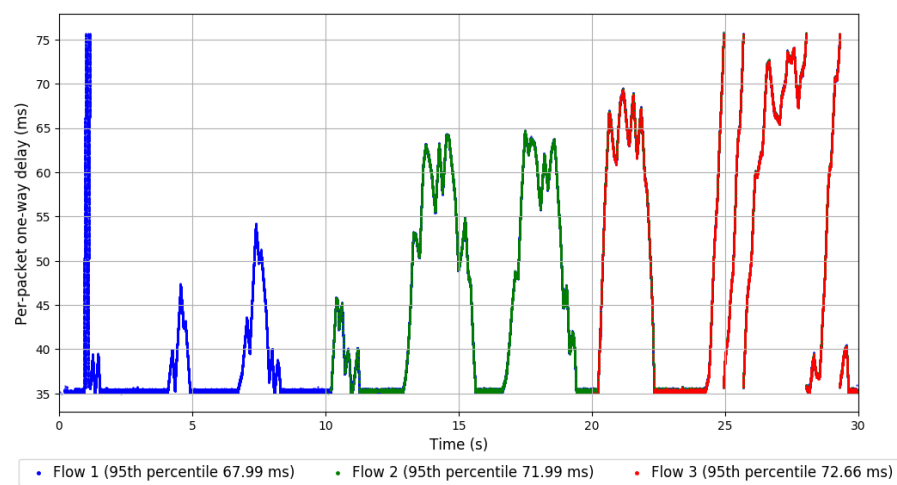
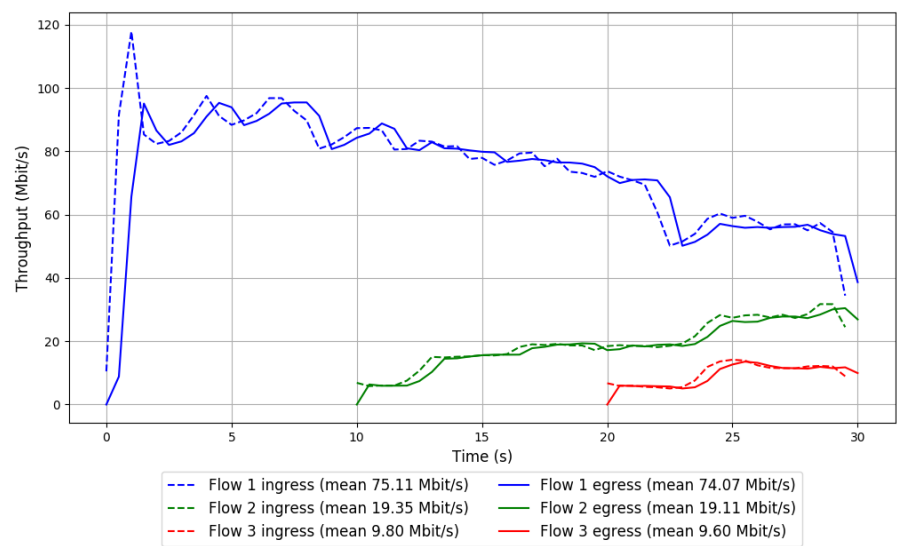


```
Run 1: Statistics of PCC-Expr

Start at: 2018-08-01 07:47:51
End at: 2018-08-01 07:48:21
Local clock offset: 0.838 ms
Remote clock offset: 1.685 ms

# Below is generated by plot.py at 2018-08-01 11:49:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.95 Mbit/s
95th percentile per-packet one-way delay: 69.248 ms
Loss rate: 1.39%
-- Flow 1:
Average throughput: 74.07 Mbit/s
95th percentile per-packet one-way delay: 67.986 ms
Loss rate: 1.39%
-- Flow 2:
Average throughput: 19.11 Mbit/s
95th percentile per-packet one-way delay: 71.989 ms
Loss rate: 1.26%
-- Flow 3:
Average throughput: 9.60 Mbit/s
95th percentile per-packet one-way delay: 72.659 ms
Loss rate: 2.05%
```

Run 1: Report of PCC-Expr — Data Link

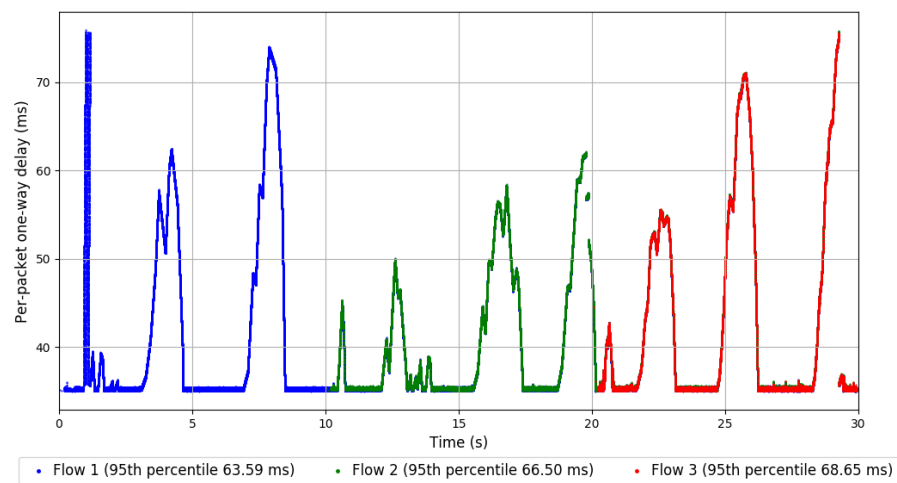
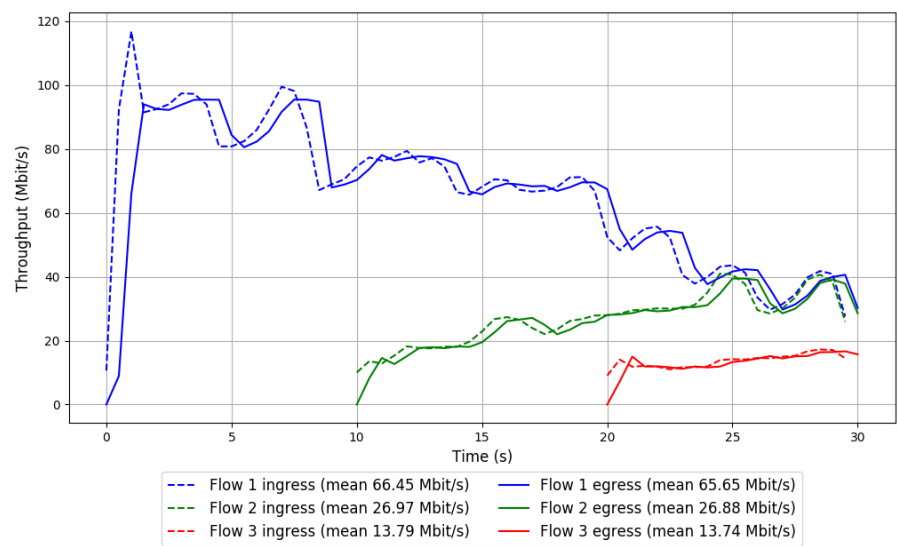


```
Run 2: Statistics of PCC-Expr

Start at: 2018-08-01 08:10:42
End at: 2018-08-01 08:11:12
Local clock offset: 0.454 ms
Remote clock offset: 3.69 ms

# Below is generated by plot.py at 2018-08-01 11:49:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.06 Mbit/s
95th percentile per-packet one-way delay: 65.216 ms
Loss rate: 1.00%
-- Flow 1:
Average throughput: 65.65 Mbit/s
95th percentile per-packet one-way delay: 63.588 ms
Loss rate: 1.21%
-- Flow 2:
Average throughput: 26.88 Mbit/s
95th percentile per-packet one-way delay: 66.496 ms
Loss rate: 0.34%
-- Flow 3:
Average throughput: 13.74 Mbit/s
95th percentile per-packet one-way delay: 68.649 ms
Loss rate: 0.52%
```

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2018-08-01 08:33:35

End at: 2018-08-01 08:34:05

Local clock offset: 0.369 ms

Remote clock offset: 4.12 ms

# Below is generated by plot.py at 2018-08-01 11:49:22

# Datalink statistics

-- Total of 3 flows:

Average throughput: 88.41 Mbit/s

95th percentile per-packet one-way delay: 63.963 ms

Loss rate: 0.96%

-- Flow 1:

Average throughput: 66.03 Mbit/s

95th percentile per-packet one-way delay: 61.132 ms

Loss rate: 1.17%

-- Flow 2:

Average throughput: 26.76 Mbit/s

95th percentile per-packet one-way delay: 65.147 ms

Loss rate: 0.32%

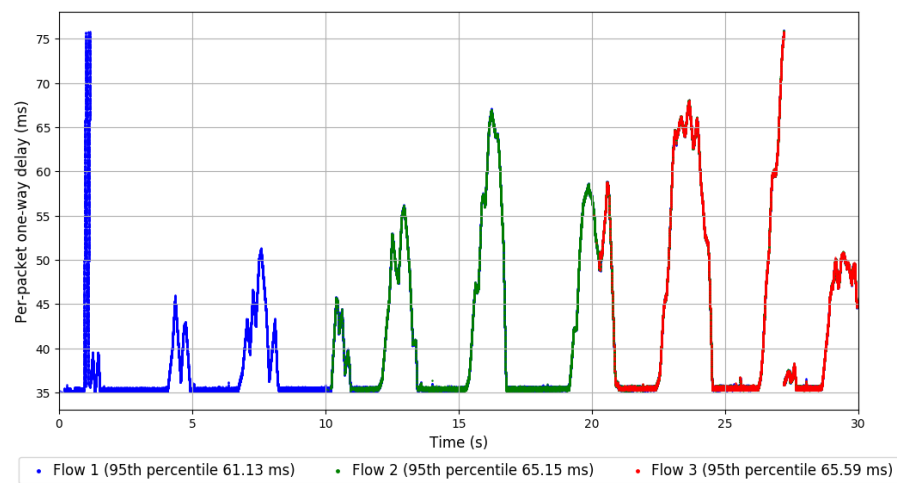
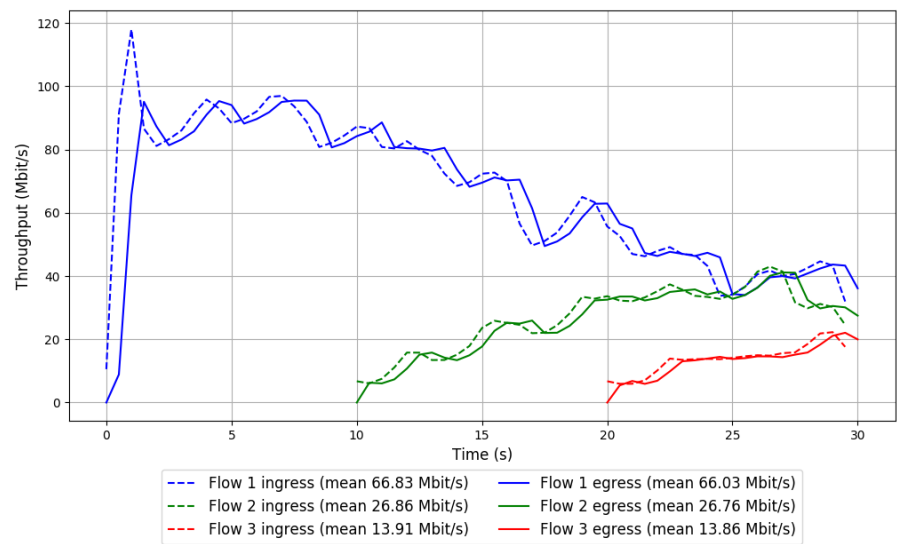
-- Flow 3:

Average throughput: 13.86 Mbit/s

95th percentile per-packet one-way delay: 65.591 ms

Loss rate: 0.45%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2018-08-01 08:56:32

End at: 2018-08-01 08:57:02

Local clock offset: -0.889 ms

Remote clock offset: 1.739 ms

# Below is generated by plot.py at 2018-08-01 11:49:22

# Datalink statistics

-- Total of 3 flows:

Average throughput: 87.65 Mbit/s

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

Loss rate: 1.57%

-- Flow 1:

Average throughput: 68.16 Mbit/s

95th percentile per-packet one-way delay: 63.114 ms

Loss rate: 1.75%

-- Flow 2:

Average throughput: 21.14 Mbit/s

95th percentile per-packet one-way delay: 65.671 ms

Loss rate: 0.98%

-- Flow 3:

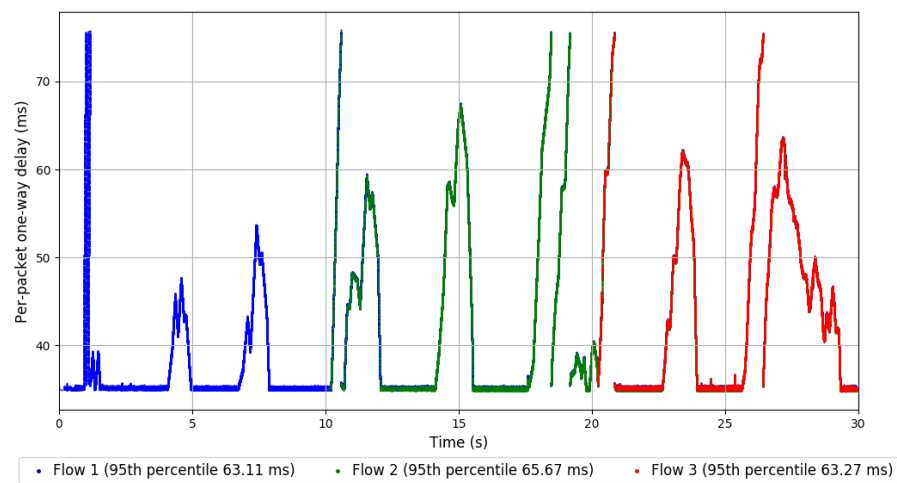
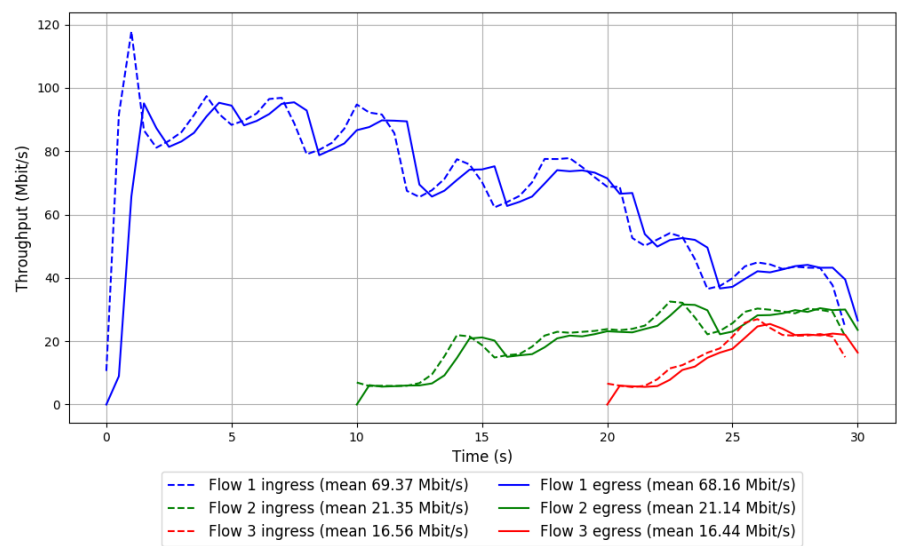
Average throughput: 16.44 Mbit/s

95th percentile per-packet one-way delay: 63.273 ms

Loss rate: 0.77%



Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2018-08-01 09:19:24

End at: 2018-08-01 09:19:54

Local clock offset: -3.713 ms

Remote clock offset: 2.162 ms

# Below is generated by plot.py at 2018-08-01 11:49:22

# Datalink statistics

-- Total of 3 flows:

Average throughput: 87.23 Mbit/s

95th percentile per-packet one-way delay: 66.900 ms

Loss rate: 1.12%

-- Flow 1:

Average throughput: 67.50 Mbit/s

95th percentile per-packet one-way delay: 65.337 ms

Loss rate: 1.33%

-- Flow 2:

Average throughput: 22.82 Mbit/s

95th percentile per-packet one-way delay: 68.705 ms

Loss rate: 0.34%

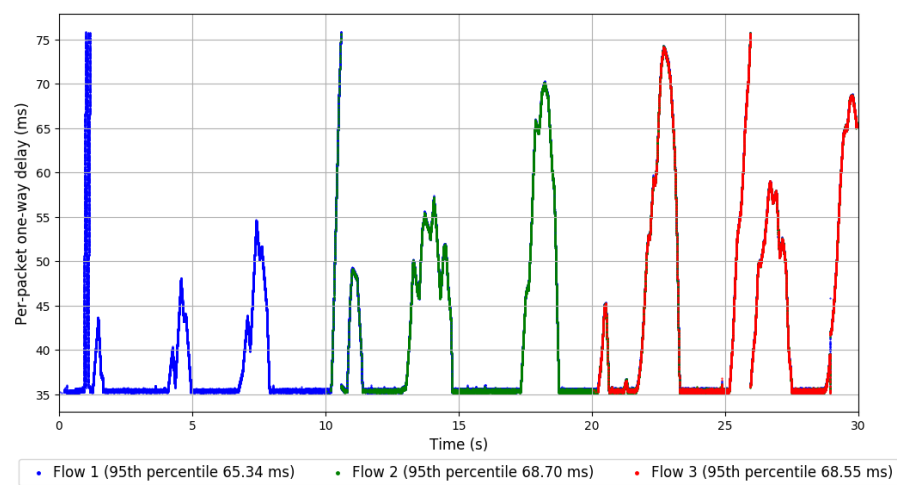
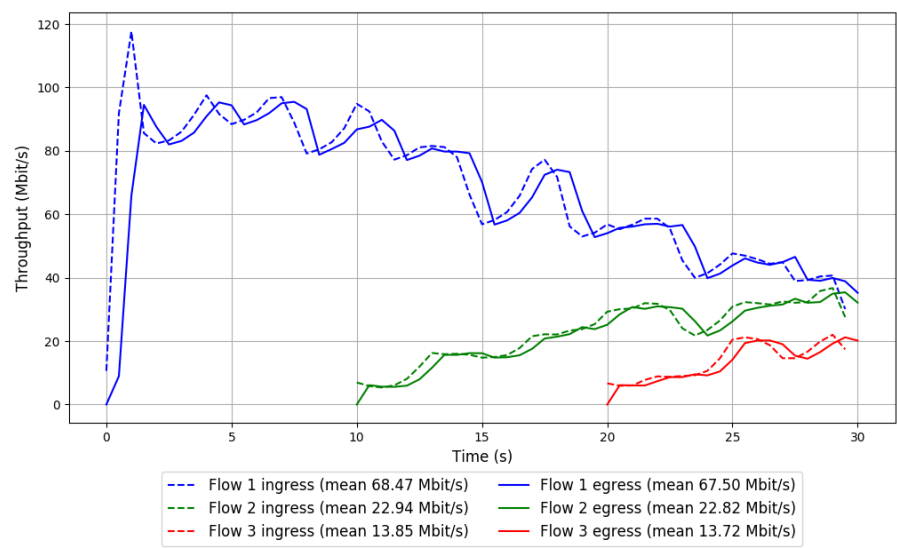
-- Flow 3:

Average throughput: 13.72 Mbit/s

95th percentile per-packet one-way delay: 68.549 ms

Loss rate: 0.63%

Run 5: Report of PCC-Expr — Data Link



Run 6: Statistics of PCC-Expr

Start at: 2018-08-01 09:42:20

End at: 2018-08-01 09:42:50

Local clock offset: -3.338 ms

Remote clock offset: 2.118 ms

# Below is generated by plot.py at 2018-08-01 11:49:27

# Datalink statistics

-- Total of 3 flows:

Average throughput: 87.47 Mbit/s

95th percentile per-packet one-way delay: 66.437 ms

Loss rate: 1.78%

-- Flow 1:

Average throughput: 64.39 Mbit/s

95th percentile per-packet one-way delay: 65.011 ms

Loss rate: 1.80%

-- Flow 2:

Average throughput: 25.05 Mbit/s

95th percentile per-packet one-way delay: 68.489 ms

Loss rate: 1.54%

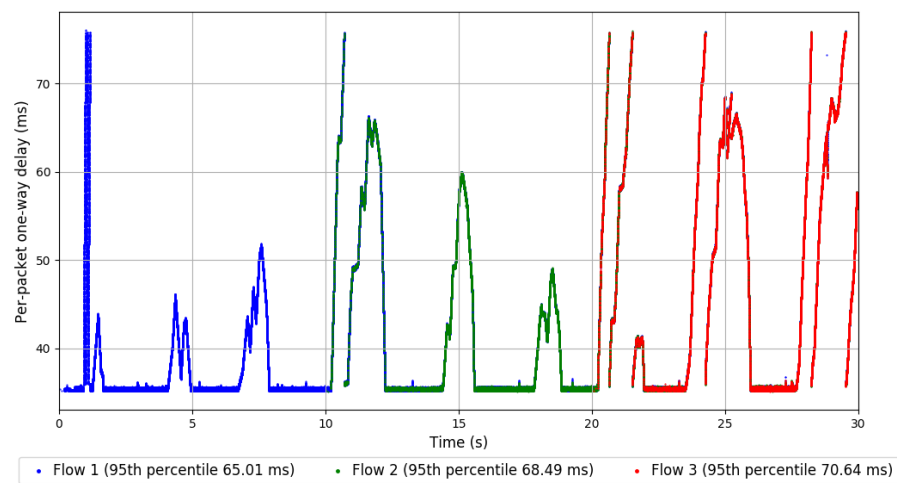
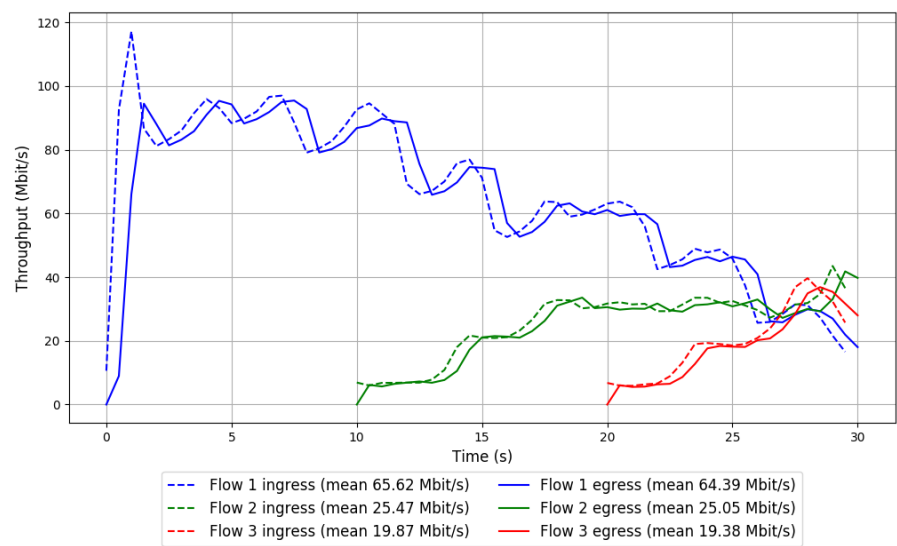
-- Flow 3:

Average throughput: 19.38 Mbit/s

95th percentile per-packet one-way delay: 70.644 ms

Loss rate: 2.26%

Run 6: Report of PCC-Expr — Data Link



Run 7: Statistics of PCC-Expr

Start at: 2018-08-01 10:05:25

End at: 2018-08-01 10:05:55

Local clock offset: -0.346 ms

Remote clock offset: 1.83 ms

# Below is generated by plot.py at 2018-08-01 11:50:27

# Datalink statistics

-- Total of 3 flows:

Average throughput: 89.07 Mbit/s

95th percentile per-packet one-way delay: 63.540 ms

Loss rate: 1.46%

-- Flow 1:

Average throughput: 68.42 Mbit/s

95th percentile per-packet one-way delay: 63.066 ms

Loss rate: 1.52%

-- Flow 2:

Average throughput: 24.72 Mbit/s

95th percentile per-packet one-way delay: 66.276 ms

Loss rate: 1.22%

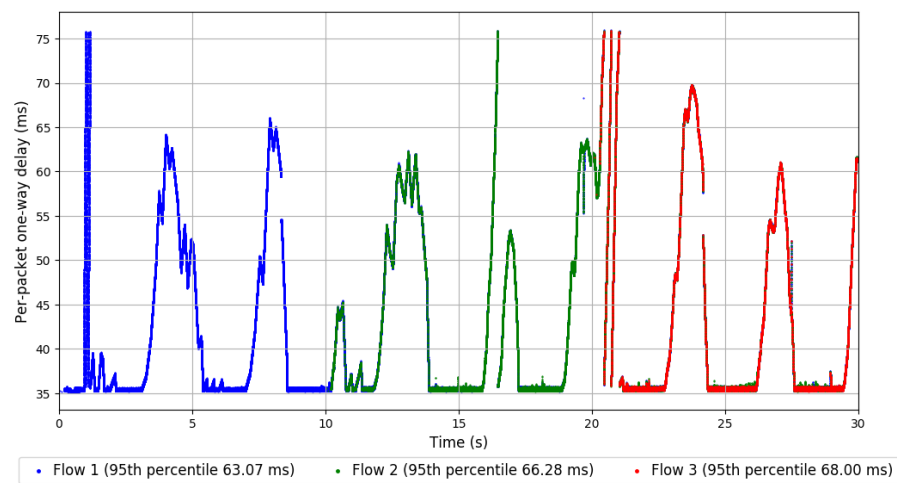
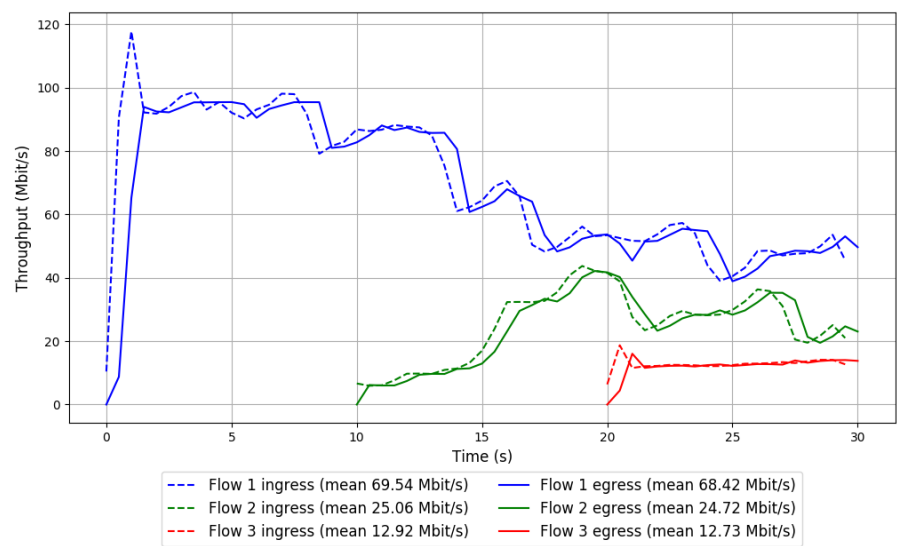
-- Flow 3:

Average throughput: 12.73 Mbit/s

95th percentile per-packet one-way delay: 68.003 ms

Loss rate: 1.52%

Run 7: Report of PCC-Expr — Data Link



Run 8: Statistics of PCC-Expr

Start at: 2018-08-01 10:28:23

End at: 2018-08-01 10:28:53

Local clock offset: 0.502 ms

Remote clock offset: 1.858 ms

# Below is generated by plot.py at 2018-08-01 11:50:32

# Datalink statistics

-- Total of 3 flows:

Average throughput: 89.72 Mbit/s

95th percentile per-packet one-way delay: 70.398 ms

Loss rate: 2.75%

-- Flow 1:

Average throughput: 70.50 Mbit/s

95th percentile per-packet one-way delay: 70.125 ms

Loss rate: 2.85%

-- Flow 2:

Average throughput: 21.63 Mbit/s

95th percentile per-packet one-way delay: 71.456 ms

Loss rate: 2.44%

-- Flow 3:

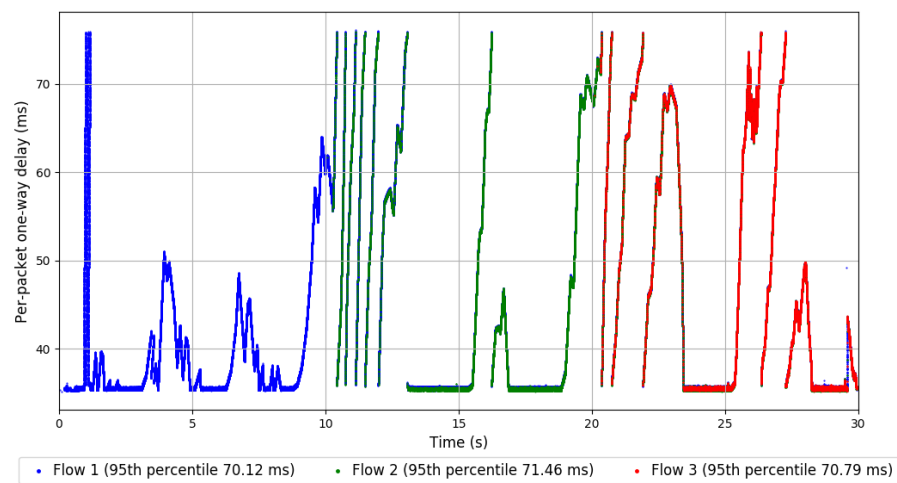
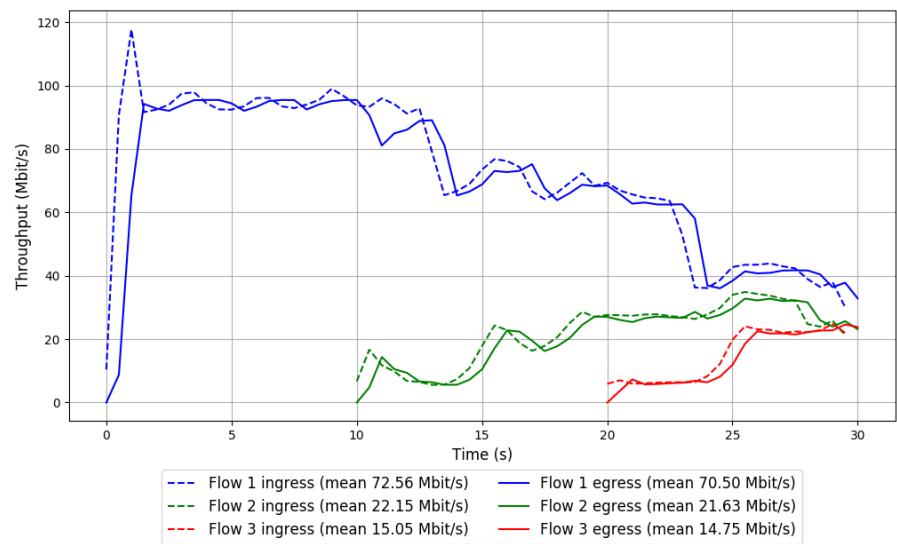
Average throughput: 14.75 Mbit/s

95th percentile per-packet one-way delay: 70.794 ms

Loss rate: 2.30%



Run 8: Report of PCC-Expr — Data Link



Run 9: Statistics of PCC-Expr

Start at: 2018-08-01 10:51:18

End at: 2018-08-01 10:51:48

Local clock offset: 0.749 ms

Remote clock offset: 1.624 ms

# Below is generated by plot.py at 2018-08-01 11:51:30

# Datalink statistics

-- Total of 3 flows:

Average throughput: 91.14 Mbit/s

95th percentile per-packet one-way delay: 65.439 ms

Loss rate: 0.98%

-- Flow 1:

Average throughput: 74.77 Mbit/s

95th percentile per-packet one-way delay: 64.771 ms

Loss rate: 1.13%

-- Flow 2:

Average throughput: 17.33 Mbit/s

95th percentile per-packet one-way delay: 66.380 ms

Loss rate: 0.33%

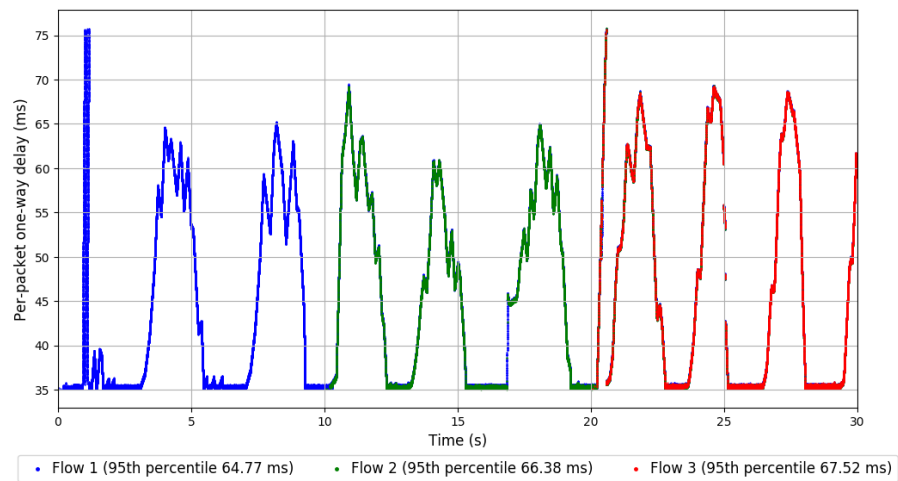
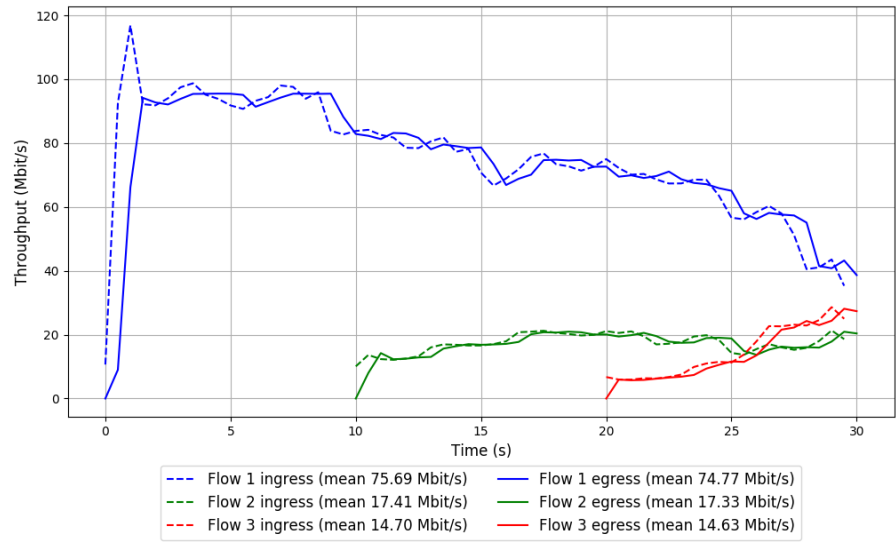
-- Flow 3:

Average throughput: 14.63 Mbit/s

95th percentile per-packet one-way delay: 67.517 ms

Loss rate: 0.26%

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



Run 10: Statistics of PCC-Expr

Start at: 2018-08-01 11:14:09

End at: 2018-08-01 11:14:39

Local clock offset: -3.084 ms

Remote clock offset: 1.85 ms

# Below is generated by plot.py at 2018-08-01 11:51:30

# Datalink statistics

-- Total of 3 flows:

Average throughput: 89.35 Mbit/s

95th percentile per-packet one-way delay: 62.609 ms

Loss rate: 1.24%

-- Flow 1:

Average throughput: 70.18 Mbit/s

95th percentile per-packet one-way delay: 62.403 ms

Loss rate: 1.40%

-- Flow 2:

Average throughput: 25.34 Mbit/s

95th percentile per-packet one-way delay: 63.500 ms

Loss rate: 0.64%

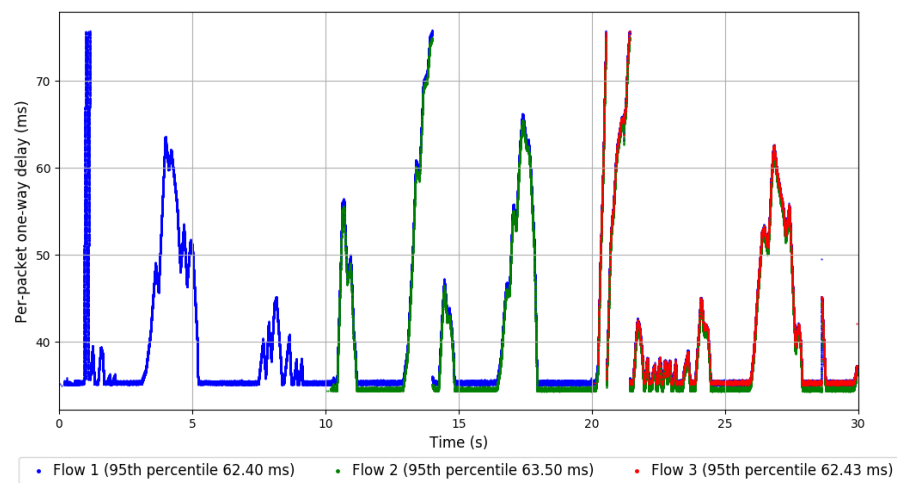
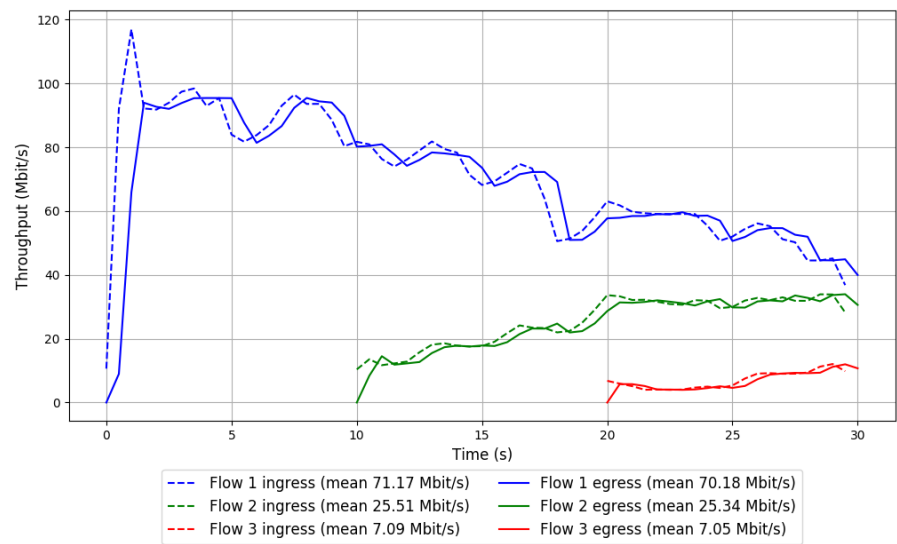
-- Flow 3:

Average throughput: 7.05 Mbit/s

95th percentile per-packet one-way delay: 62.429 ms

Loss rate: 0.58%

Run 10: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2018-08-01 07:58:40

End at: 2018-08-01 07:59:10

Local clock offset: 0.606 ms

Remote clock offset: 2.226 ms

# Below is generated by plot.py at 2018-08-01 11:51:30

# Datalink statistics

-- Total of 3 flows:

Average throughput: 81.34 Mbit/s

95th percentile per-packet one-way delay: 71.060 ms

Loss rate: 2.84%

-- Flow 1:

Average throughput: 48.83 Mbit/s

95th percentile per-packet one-way delay: 70.998 ms

Loss rate: 3.76%

-- Flow 2:

Average throughput: 37.48 Mbit/s

95th percentile per-packet one-way delay: 71.600 ms

Loss rate: 1.72%

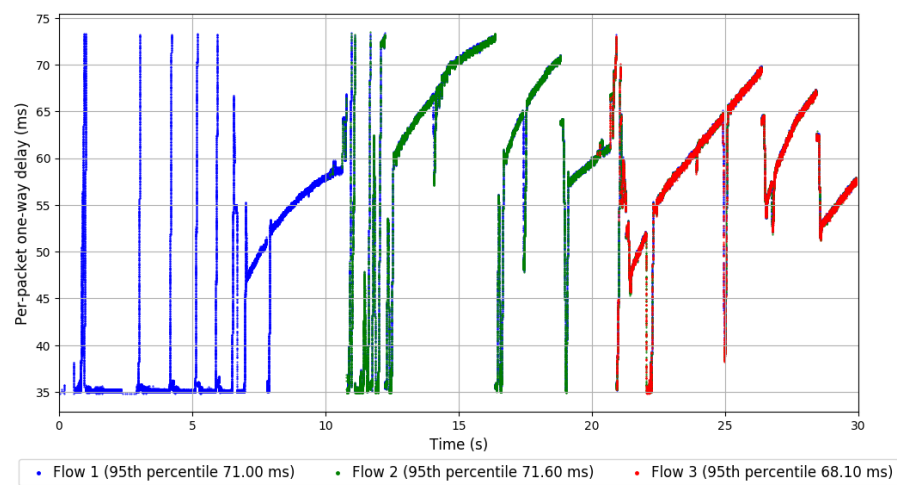
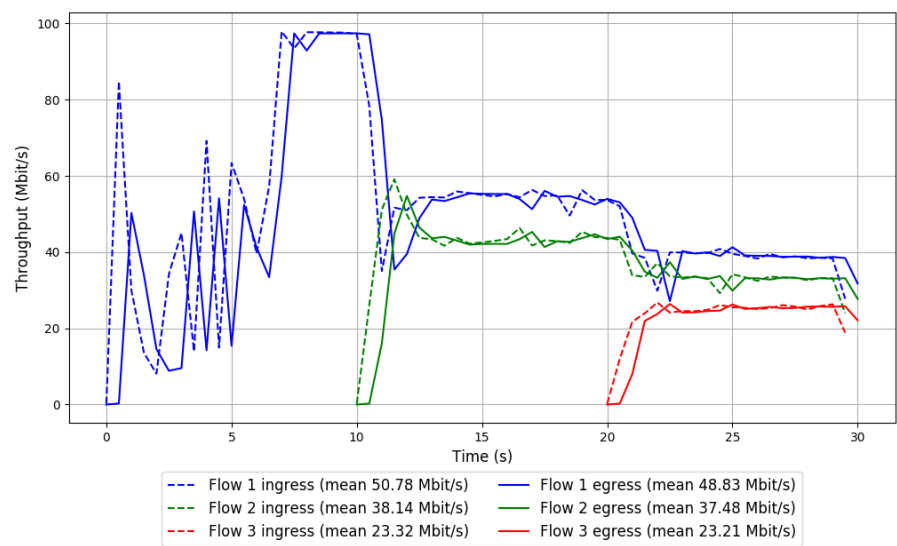
-- Flow 3:

Average throughput: 23.21 Mbit/s

95th percentile per-packet one-way delay: 68.102 ms

Loss rate: 0.47%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-08-01 08:21:31

End at: 2018-08-01 08:22:01

Local clock offset: 0.539 ms

Remote clock offset: 4.56 ms

# Below is generated by plot.py at 2018-08-01 11:51:30

# Datalink statistics

-- Total of 3 flows:

Average throughput: 87.67 Mbit/s

95th percentile per-packet one-way delay: 71.589 ms

Loss rate: 1.63%

-- Flow 1:

Average throughput: 62.93 Mbit/s

95th percentile per-packet one-way delay: 71.387 ms

Loss rate: 1.81%

-- Flow 2:

Average throughput: 25.04 Mbit/s

95th percentile per-packet one-way delay: 71.538 ms

Loss rate: 1.15%

-- Flow 3:

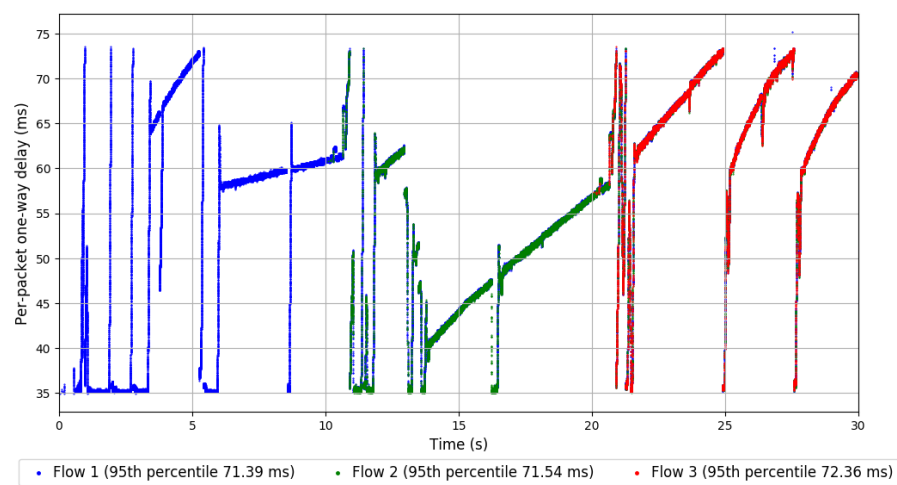
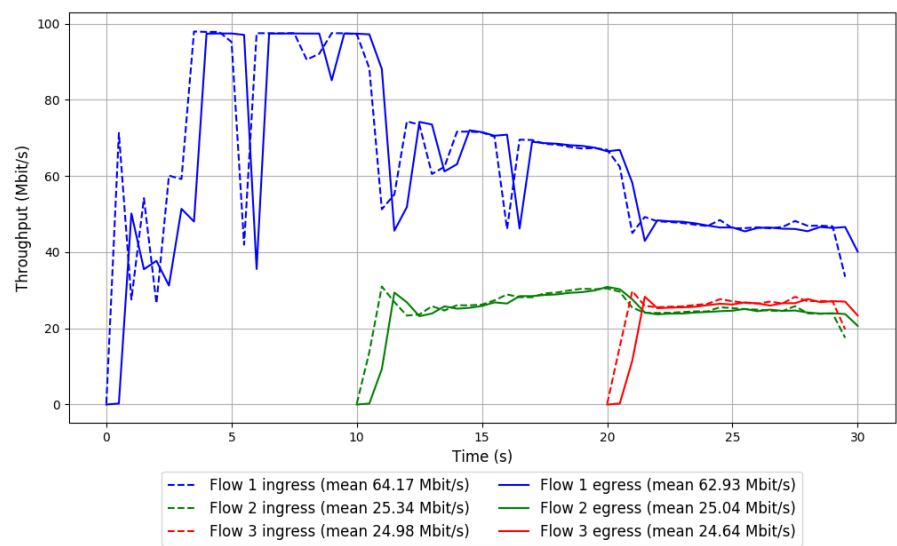
Average throughput: 24.64 Mbit/s

95th percentile per-packet one-way delay: 72.360 ms

Loss rate: 1.25%



Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-08-01 08:44:25

End at: 2018-08-01 08:44:55

Local clock offset: 0.261 ms

Remote clock offset: 2.441 ms

# Below is generated by plot.py at 2018-08-01 11:51:30

# Datalink statistics

-- Total of 3 flows:

Average throughput: 80.05 Mbit/s

95th percentile per-packet one-way delay: 70.891 ms

Loss rate: 2.30%

-- Flow 1:

Average throughput: 63.47 Mbit/s

95th percentile per-packet one-way delay: 70.863 ms

Loss rate: 2.74%

-- Flow 2:

Average throughput: 19.80 Mbit/s

95th percentile per-packet one-way delay: 71.103 ms

Loss rate: 0.64%

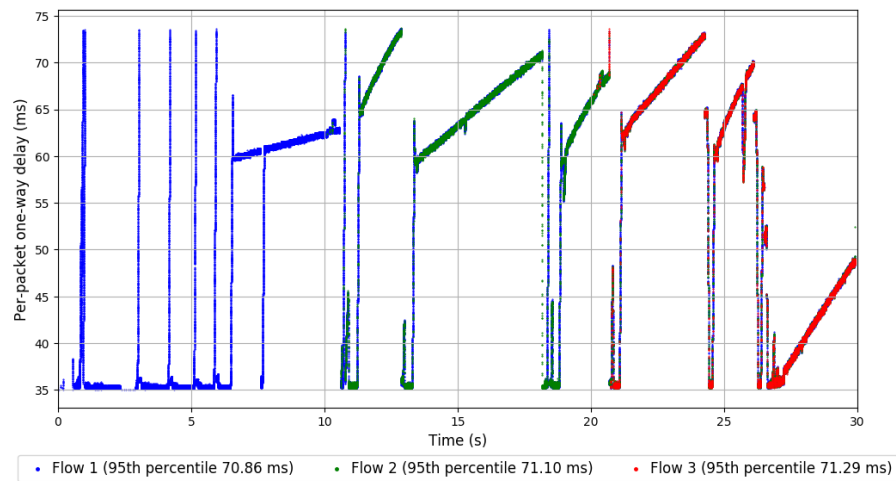
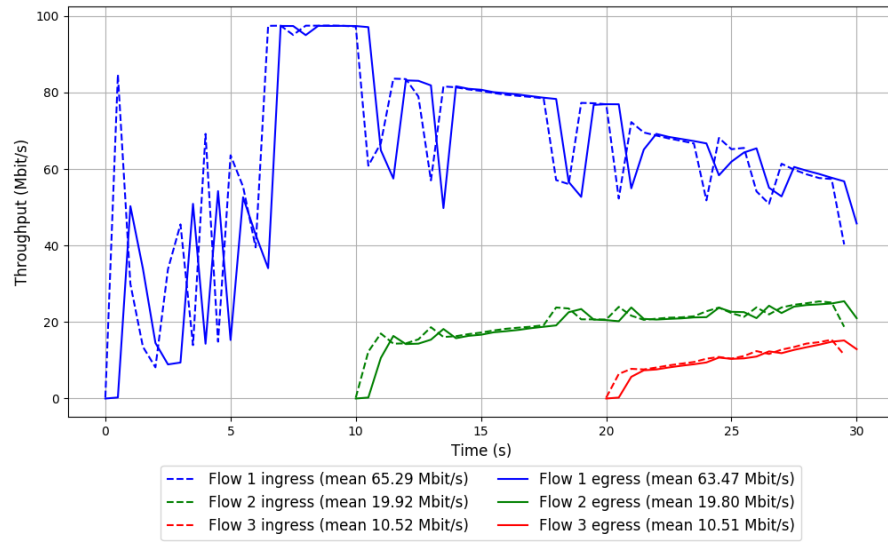
-- Flow 3:

Average throughput: 10.51 Mbit/s

95th percentile per-packet one-way delay: 71.291 ms

Loss rate: 0.30%

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



Run 4: Statistics of QUIC Cubic

Start at: 2018-08-01 09:07:21

End at: 2018-08-01 09:07:51

Local clock offset: -2.796 ms

Remote clock offset: 1.8 ms

# Below is generated by plot.py at 2018-08-01 11:51:30

# Datalink statistics

-- Total of 3 flows:

Average throughput: 79.98 Mbit/s

95th percentile per-packet one-way delay: 72.430 ms

Loss rate: 2.52%

-- Flow 1:

Average throughput: 66.07 Mbit/s

95th percentile per-packet one-way delay: 72.418 ms

Loss rate: 2.80%

-- Flow 2:

Average throughput: 16.32 Mbit/s

95th percentile per-packet one-way delay: 72.468 ms

Loss rate: 1.09%

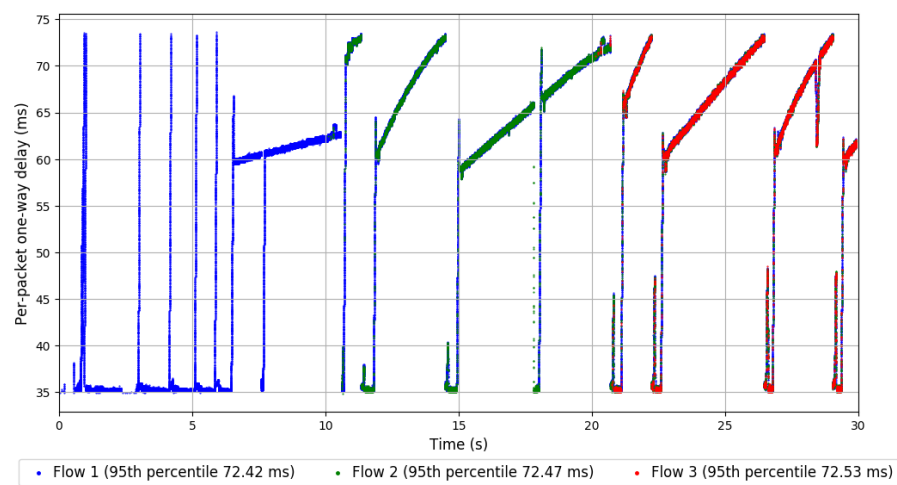
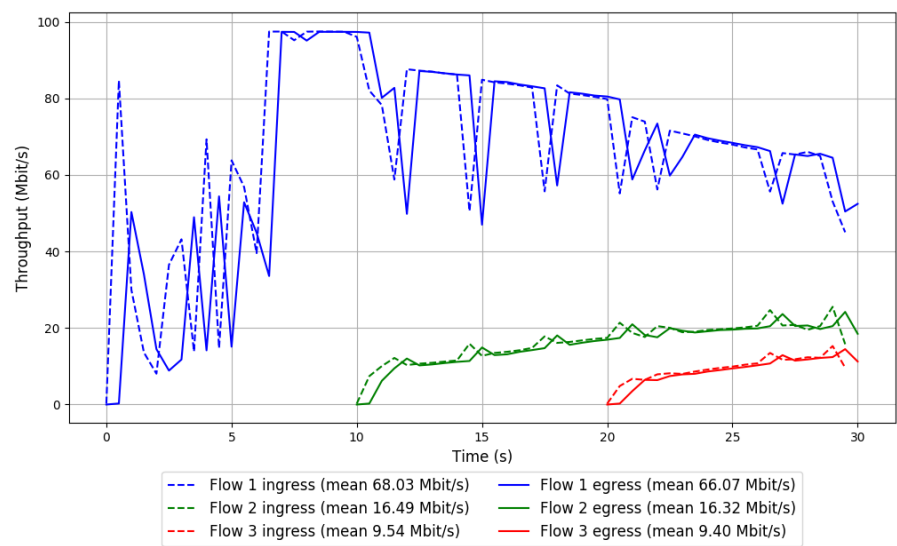
-- Flow 3:

Average throughput: 9.40 Mbit/s

95th percentile per-packet one-way delay: 72.525 ms

Loss rate: 1.62%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-08-01 09:30:13

End at: 2018-08-01 09:30:43

Local clock offset: -3.343 ms

Remote clock offset: 2.055 ms

# Below is generated by plot.py at 2018-08-01 11:51:30

# Datalink statistics

-- Total of 3 flows:

Average throughput: 80.03 Mbit/s

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

Loss rate: 2.28%

-- Flow 1:

Average throughput: 66.06 Mbit/s

95th percentile per-packet one-way delay: 71.917 ms

Loss rate: 2.60%

-- Flow 2:

Average throughput: 16.43 Mbit/s

95th percentile per-packet one-way delay: 71.964 ms

Loss rate: 0.71%

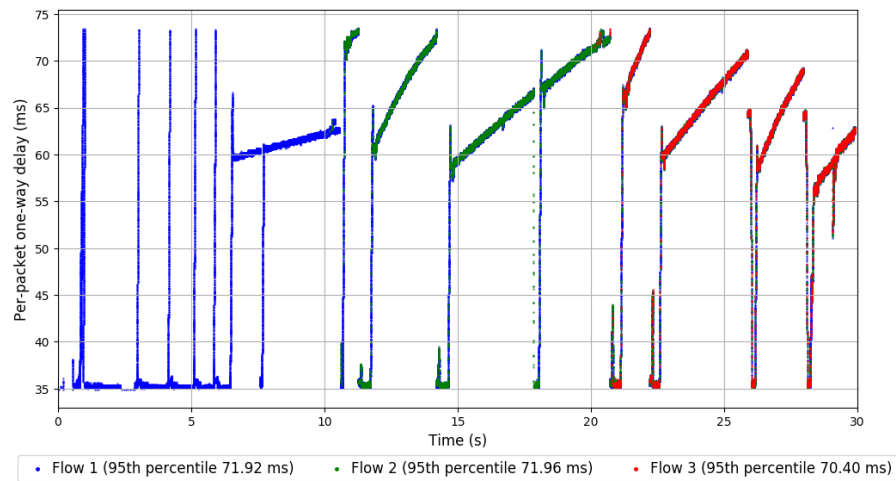
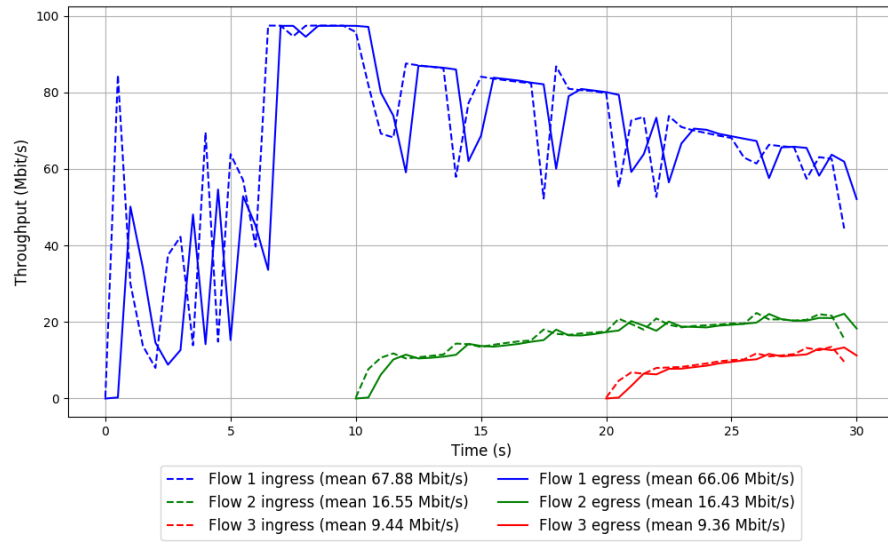
-- Flow 3:

Average throughput: 9.36 Mbit/s

95th percentile per-packet one-way delay: 70.396 ms

Loss rate: 0.91%

# Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-08-01 09:53:18

End at: 2018-08-01 09:53:48

Local clock offset: -3.187 ms

Remote clock offset: 2.043 ms

# Below is generated by plot.py at 2018-08-01 11:51:33

# Datalink statistics

-- Total of 3 flows:

Average throughput: 80.19 Mbit/s

95th percentile per-packet one-way delay: 72.680 ms

Loss rate: 2.40%

-- Flow 1:

Average throughput: 66.56 Mbit/s

95th percentile per-packet one-way delay: 72.662 ms

Loss rate: 2.65%

-- Flow 2:

Average throughput: 16.12 Mbit/s

95th percentile per-packet one-way delay: 72.808 ms

Loss rate: 1.07%

-- Flow 3:

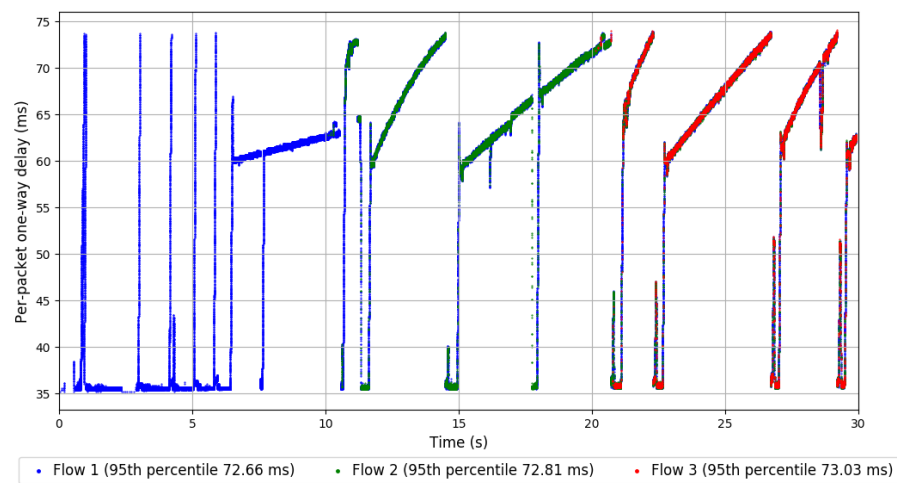
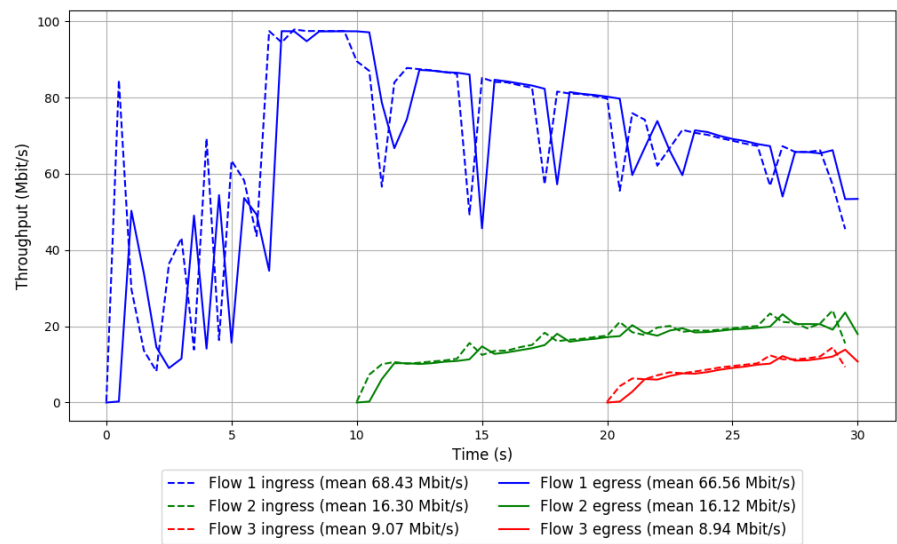
Average throughput: 8.94 Mbit/s

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

Loss rate: 1.63%



Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-08-01 10:16:17

End at: 2018-08-01 10:16:47

Local clock offset: 0.461 ms

Remote clock offset: 1.862 ms

# Below is generated by plot.py at 2018-08-01 11:51:38

# Datalink statistics

-- Total of 3 flows:

Average throughput: 74.09 Mbit/s

95th percentile per-packet one-way delay: 71.771 ms

Loss rate: 3.56%

-- Flow 1:

Average throughput: 54.16 Mbit/s

95th percentile per-packet one-way delay: 71.726 ms

Loss rate: 4.42%

-- Flow 2:

Average throughput: 25.12 Mbit/s

95th percentile per-packet one-way delay: 71.975 ms

Loss rate: 1.16%

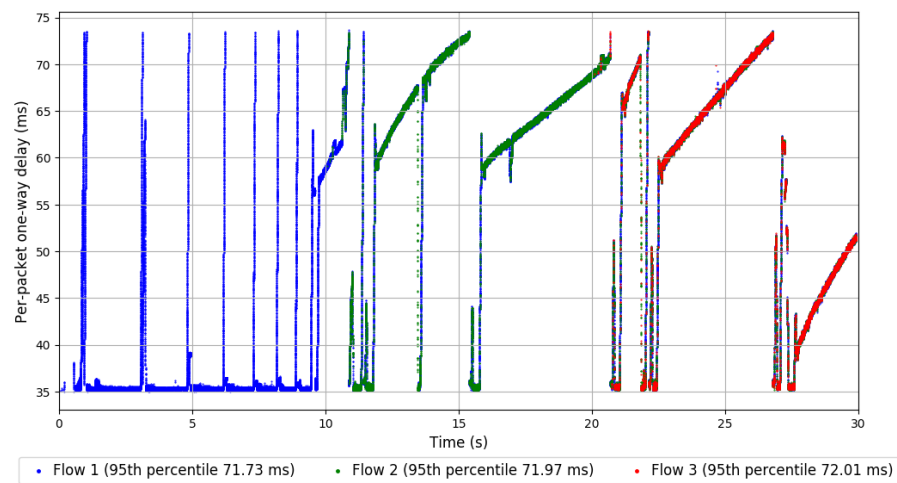
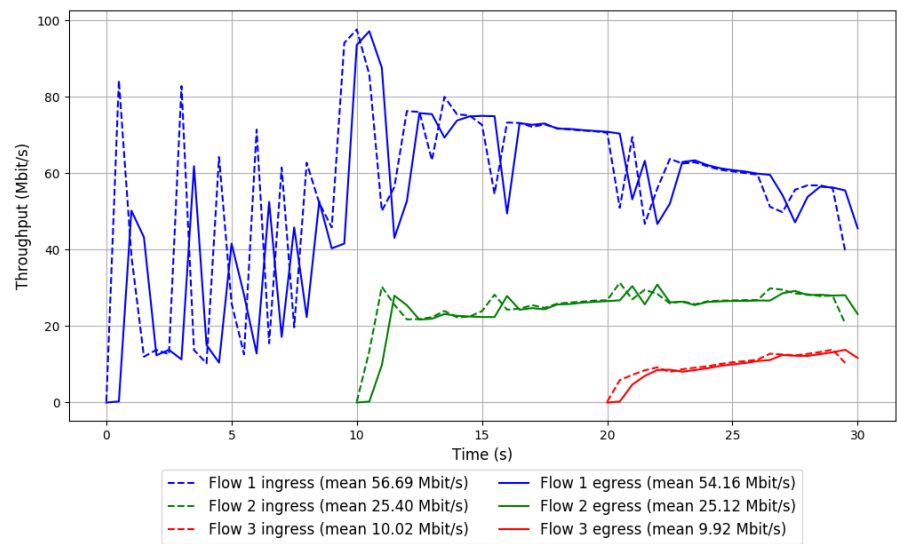
-- Flow 3:

Average throughput: 9.92 Mbit/s

95th percentile per-packet one-way delay: 72.007 ms

Loss rate: 1.13%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-08-01 10:39:12

End at: 2018-08-01 10:39:42

Local clock offset: 0.489 ms

Remote clock offset: 1.702 ms

# Below is generated by plot.py at 2018-08-01 11:51:43

# Datalink statistics

-- Total of 3 flows:

Average throughput: 80.11 Mbit/s

95th percentile per-packet one-way delay: 71.950 ms

Loss rate: 2.57%

-- Flow 1:

Average throughput: 63.02 Mbit/s

95th percentile per-packet one-way delay: 71.799 ms

Loss rate: 2.92%

-- Flow 2:

Average throughput: 20.89 Mbit/s

95th percentile per-packet one-way delay: 72.200 ms

Loss rate: 1.22%

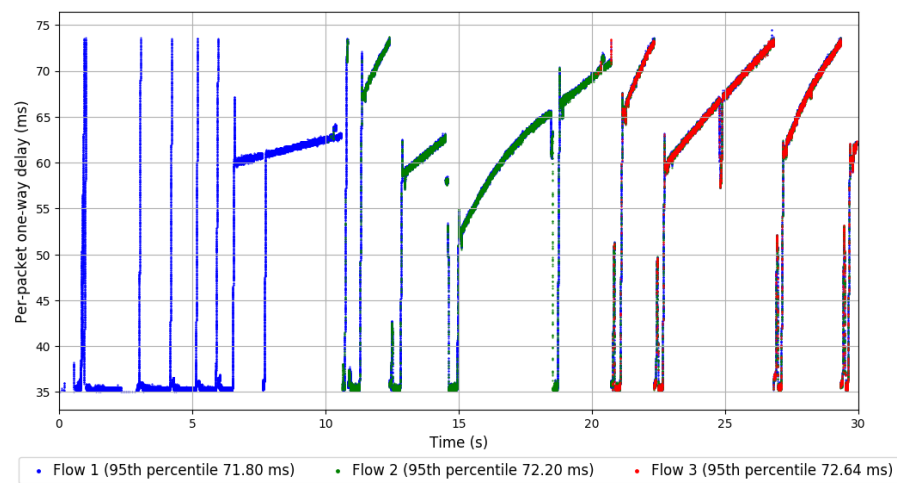
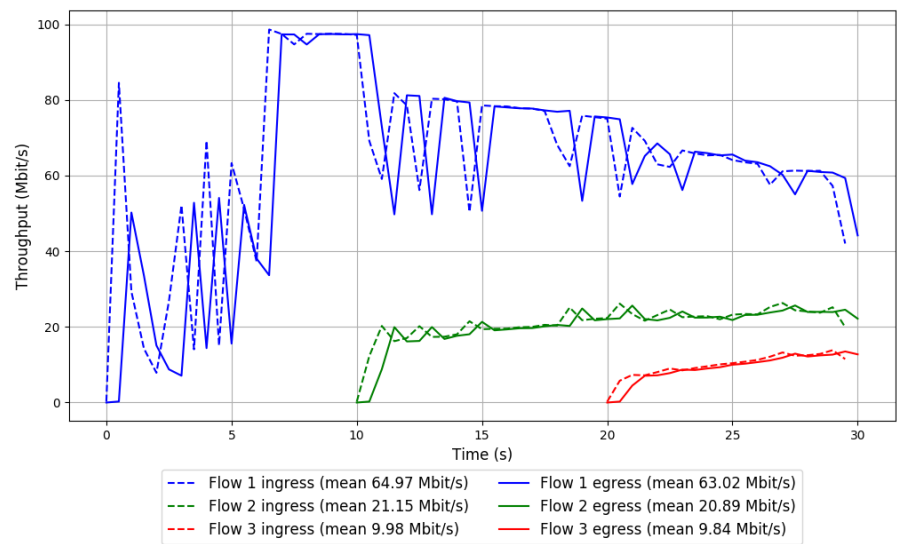
-- Flow 3:

Average throughput: 9.84 Mbit/s

95th percentile per-packet one-way delay: 72.644 ms

Loss rate: 1.50%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-08-01 11:02:05

End at: 2018-08-01 11:02:35

Local clock offset: -1.929 ms

Remote clock offset: 1.727 ms

# Below is generated by plot.py at 2018-08-01 11:51:43

# Datalink statistics

-- Total of 3 flows:

Average throughput: 80.27 Mbit/s

95th percentile per-packet one-way delay: 71.204 ms

Loss rate: 2.38%

-- Flow 1:

Average throughput: 63.77 Mbit/s

95th percentile per-packet one-way delay: 71.082 ms

Loss rate: 2.78%

-- Flow 2:

Average throughput: 19.77 Mbit/s

95th percentile per-packet one-way delay: 71.421 ms

Loss rate: 0.83%

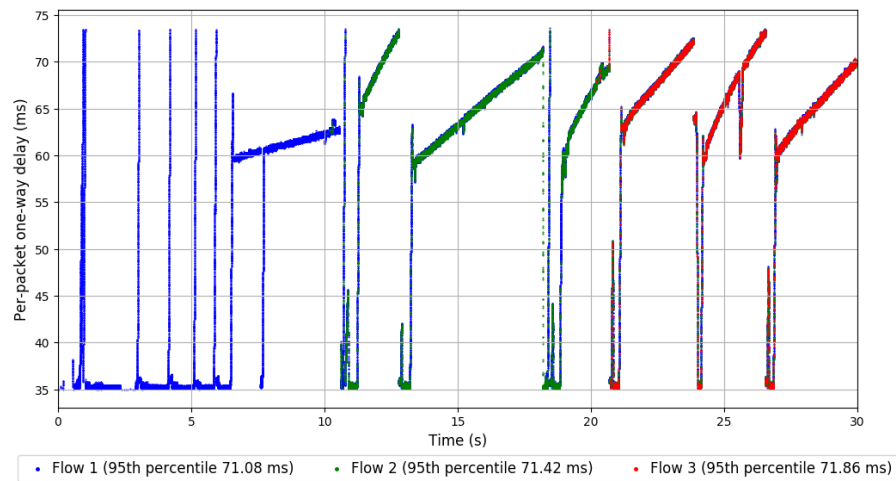
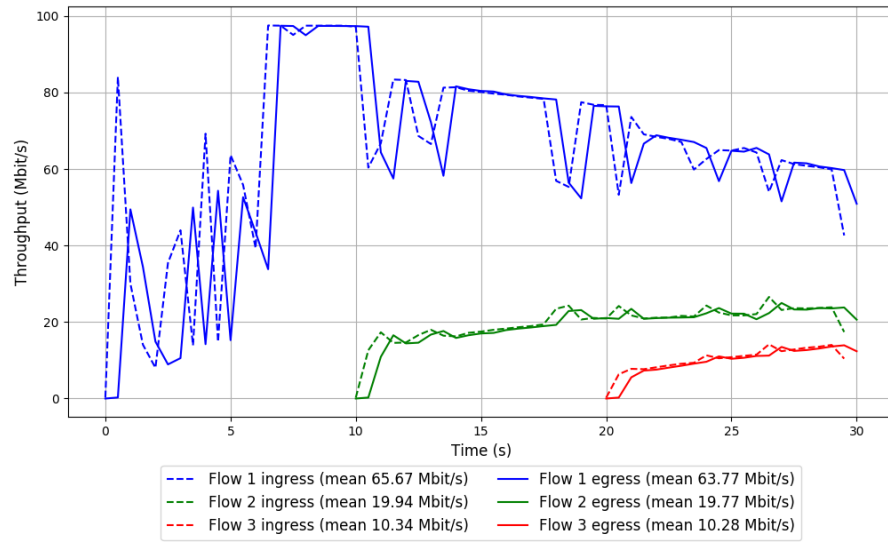
-- Flow 3:

Average throughput: 10.28 Mbit/s

95th percentile per-packet one-way delay: 71.857 ms

Loss rate: 0.58%

# Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-08-01 11:25:02

End at: 2018-08-01 11:25:32

Local clock offset: -3.622 ms

Remote clock offset: 1.854 ms

# Below is generated by plot.py at 2018-08-01 11:51:46

# Datalink statistics

-- Total of 3 flows:

Average throughput: 80.19 Mbit/s

95th percentile per-packet one-way delay: 71.781 ms

Loss rate: 2.51%

-- Flow 1:

Average throughput: 66.61 Mbit/s

95th percentile per-packet one-way delay: 71.760 ms

Loss rate: 2.75%

-- Flow 2:

Average throughput: 16.03 Mbit/s

95th percentile per-packet one-way delay: 71.841 ms

Loss rate: 1.17%

-- Flow 3:

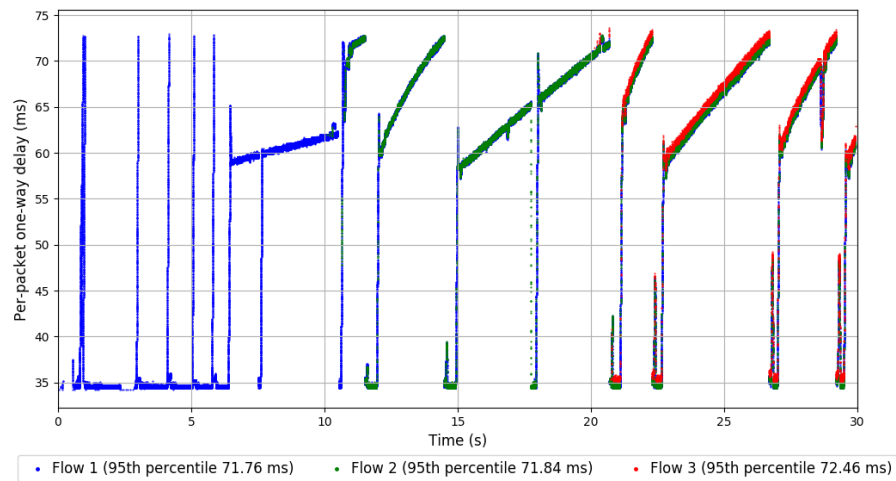
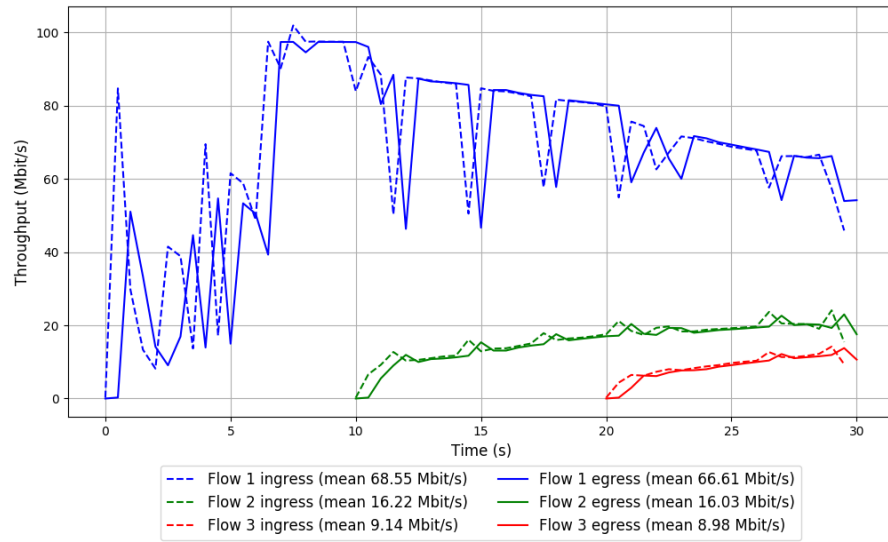
Average throughput: 8.98 Mbit/s

95th percentile per-packet one-way delay: 72.463 ms

Loss rate: 1.79%



# Run 10: Report of QUIC Cubic — Data Link

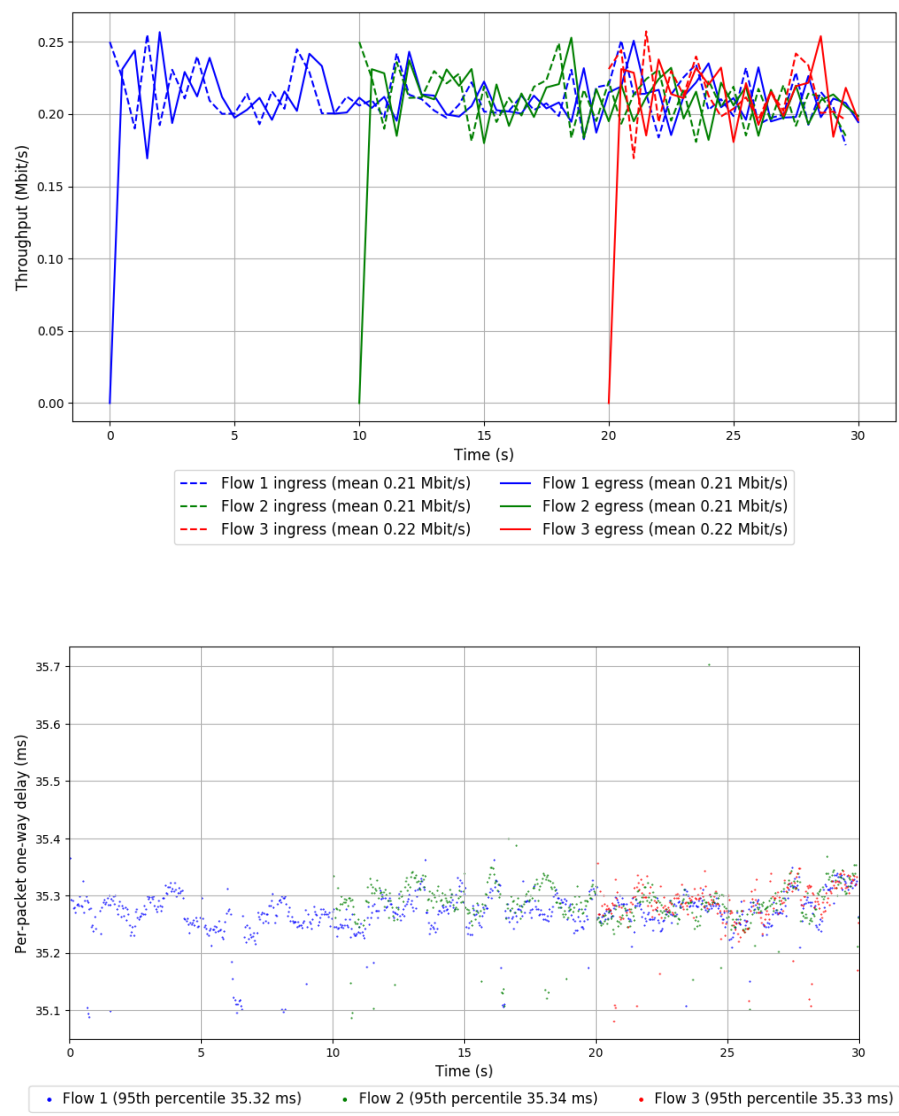


```
Run 1: Statistics of SCReAM

Start at: 2018-08-01 07:43:52
End at: 2018-08-01 07:44:22
Local clock offset: 0.759 ms
Remote clock offset: 1.723 ms

# Below is generated by plot.py at 2018-08-01 11:51:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 35.330 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 35.319 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 35.336 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 35.334 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

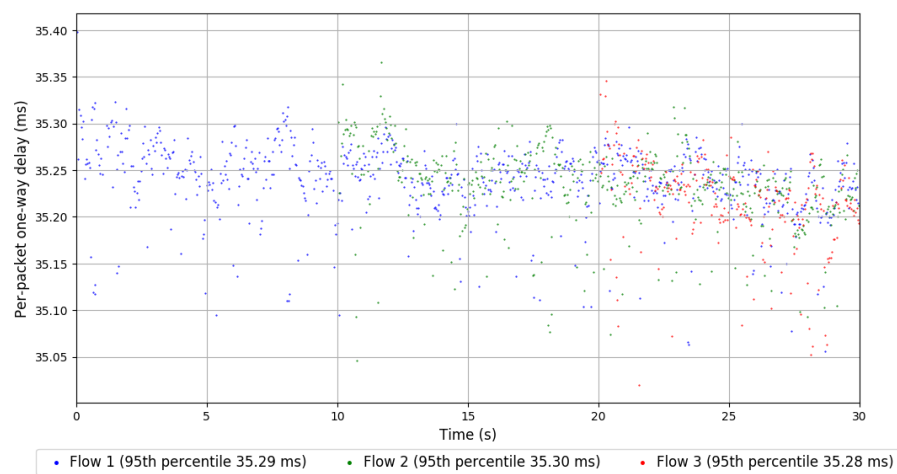
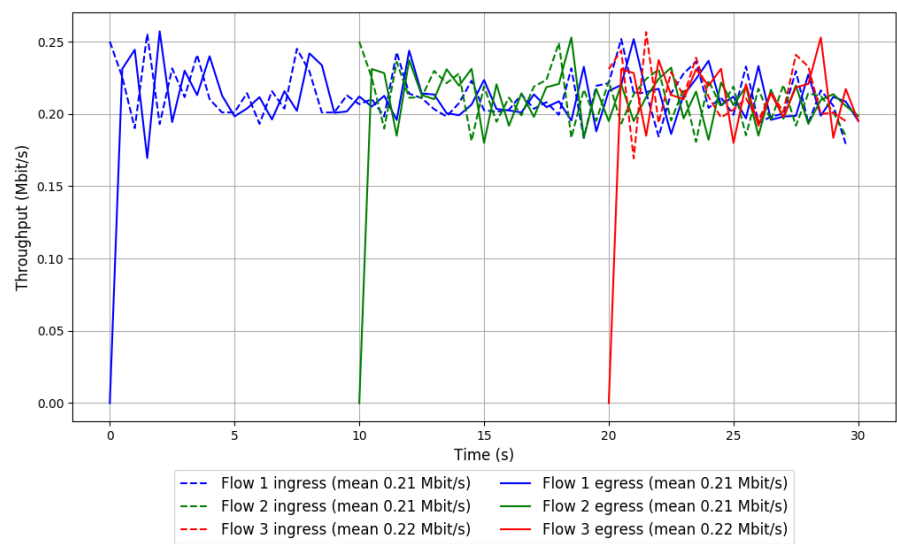


```
Run 2: Statistics of SReAM

Start at: 2018-08-01 08:06:43
End at: 2018-08-01 08:07:13
Local clock offset: 0.429 ms
Remote clock offset: 3.35 ms

# Below is generated by plot.py at 2018-08-01 11:51:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 35.292 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 35.291 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 35.295 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 35.277 ms
Loss rate: 0.00%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-08-01 08:29:35

End at: 2018-08-01 08:30:05

Local clock offset: 0.315 ms

Remote clock offset: 5.045 ms

# Below is generated by plot.py at 2018-08-01 11:51:46

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 35.371 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 35.385 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 35.339 ms

Loss rate: 0.00%

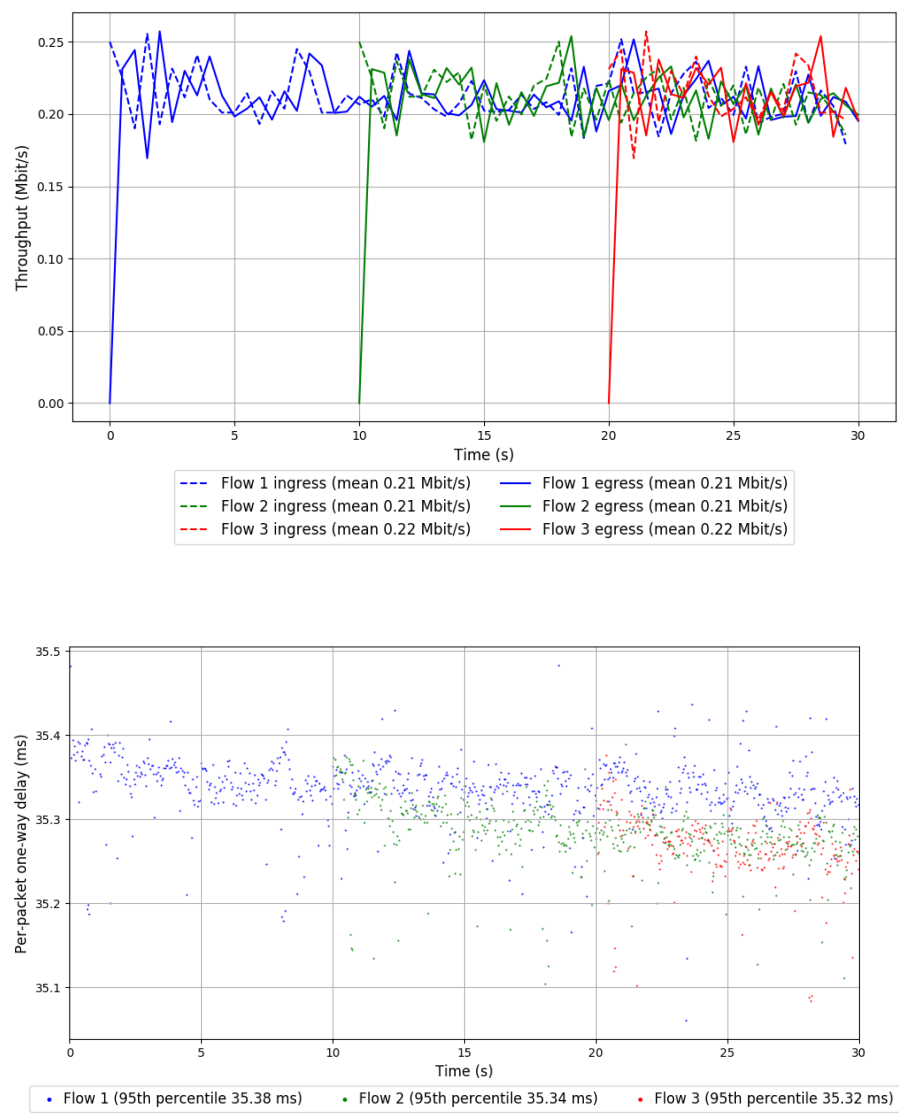
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 35.317 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SReAM

Start at: 2018-08-01 08:52:31

End at: 2018-08-01 08:53:01

Local clock offset: 0.373 ms

Remote clock offset: 1.936 ms

# Below is generated by plot.py at 2018-08-01 11:51:46

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 35.146 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 35.160 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 35.145 ms

Loss rate: 0.00%

-- Flow 3:

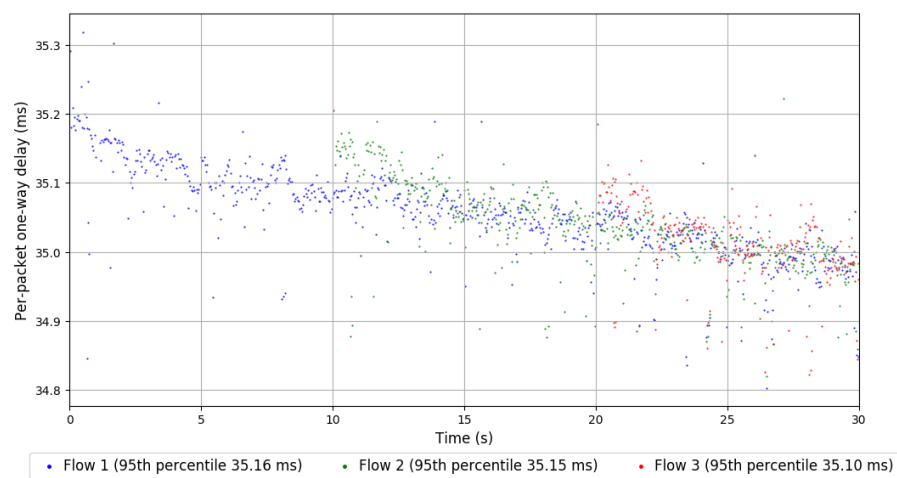
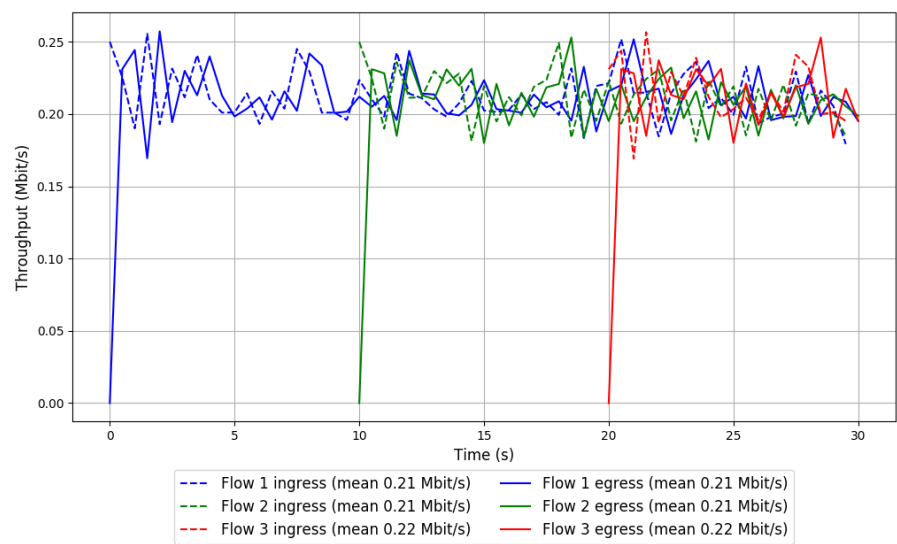
Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 35.096 ms

Loss rate: 0.00%



Run 4: Report of SReAM — Data Link



Run 5: Statistics of SReAM

Start at: 2018-08-01 09:15:25

End at: 2018-08-01 09:15:55

Local clock offset: -3.366 ms

Remote clock offset: 2.224 ms

# Below is generated by plot.py at 2018-08-01 11:51:46

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 35.341 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 35.279 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 35.365 ms

Loss rate: 0.00%

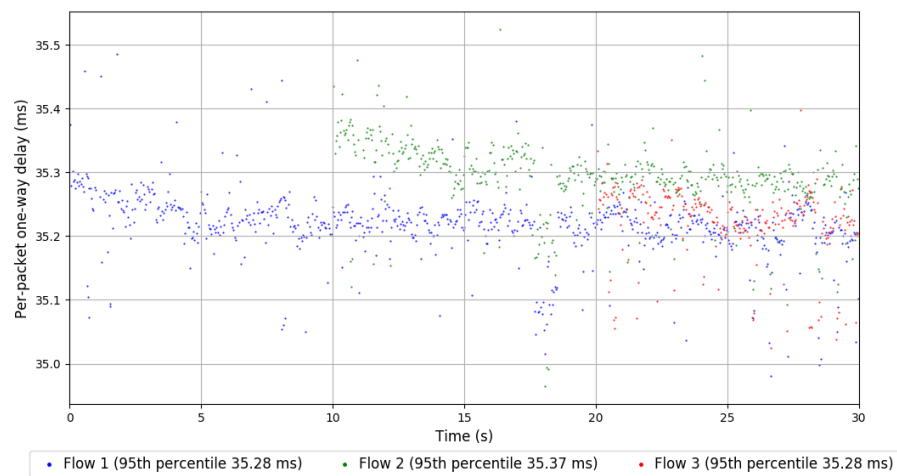
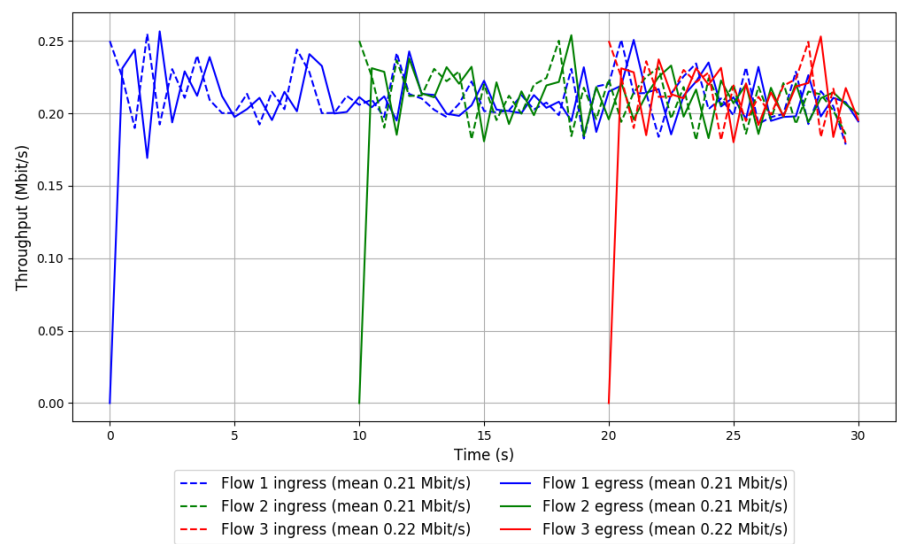
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 35.276 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link

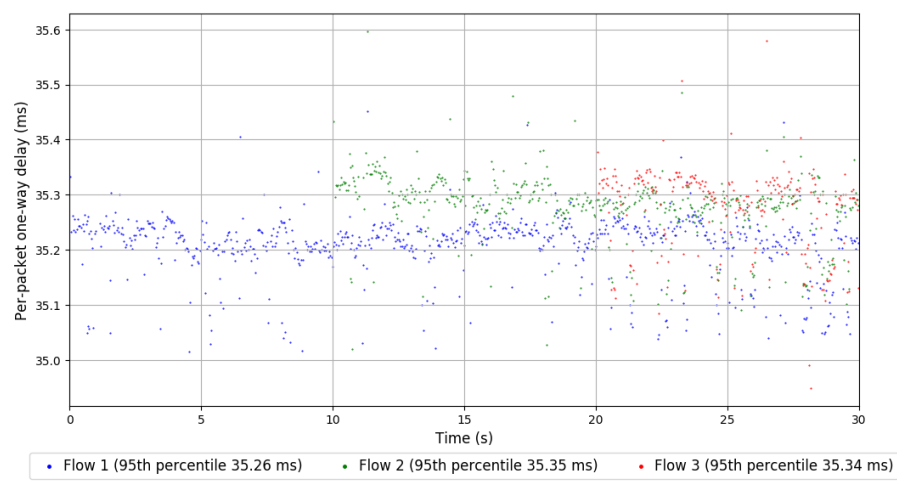
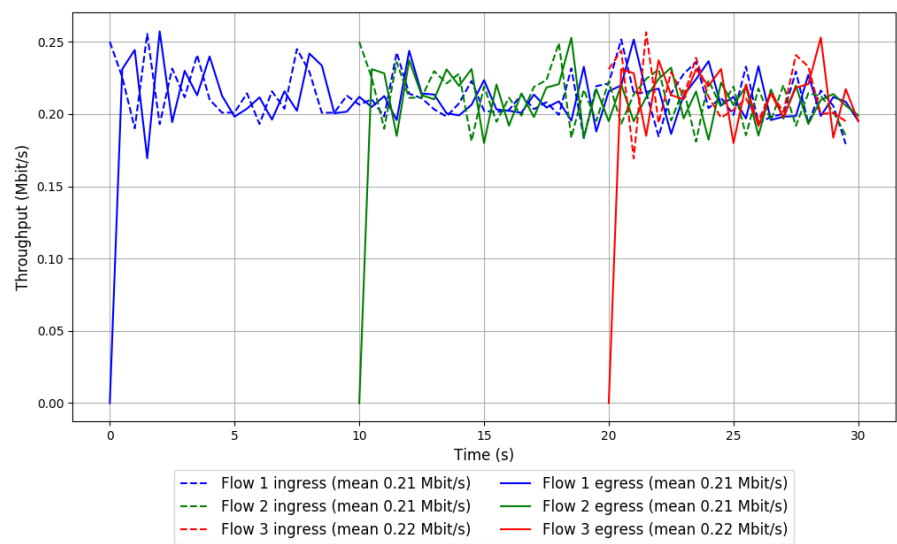


Run 6: Statistics of SReAM

Start at: 2018-08-01 09:38:19  
End at: 2018-08-01 09:38:49  
Local clock offset: -3.229 ms  
Remote clock offset: 2.18 ms

# Below is generated by plot.py at 2018-08-01 11:51:46  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 35.335 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 35.261 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 35.352 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 35.343 ms  
Loss rate: 0.00%

Run 6: Report of SReAM — Data Link

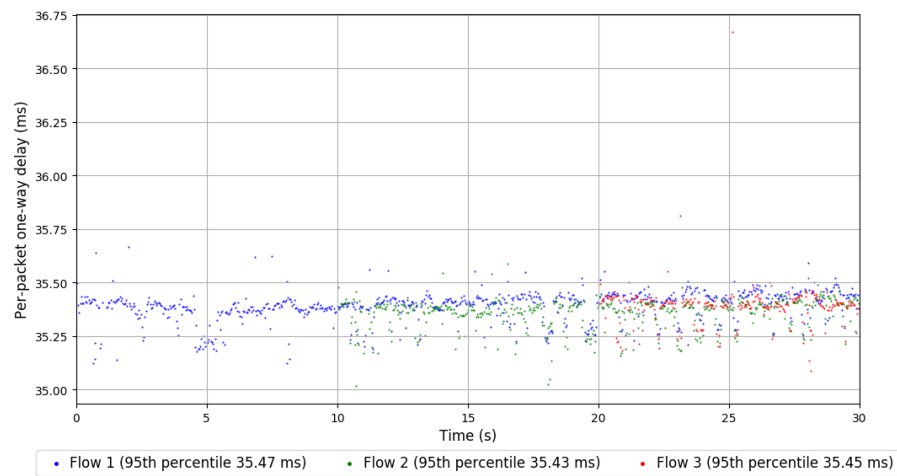
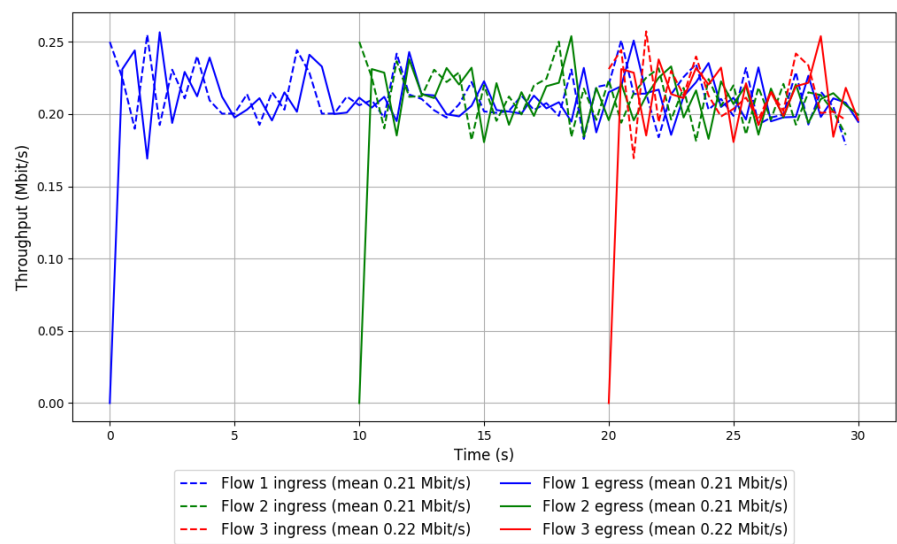


Run 7: Statistics of SReAM

Start at: 2018-08-01 10:01:24  
End at: 2018-08-01 10:01:54  
Local clock offset: -0.903 ms  
Remote clock offset: 1.886 ms

# Below is generated by plot.py at 2018-08-01 11:51:46  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 35.460 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 35.474 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 35.431 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 35.447 ms  
Loss rate: 0.00%

Run 7: Report of SCReAM — Data Link



Run 8: Statistics of SReAM

Start at: 2018-08-01 10:24:23

End at: 2018-08-01 10:24:53

Local clock offset: 0.612 ms

Remote clock offset: 1.845 ms

# Below is generated by plot.py at 2018-08-01 11:51:46

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 35.371 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 35.318 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 35.389 ms

Loss rate: 0.00%

-- Flow 3:

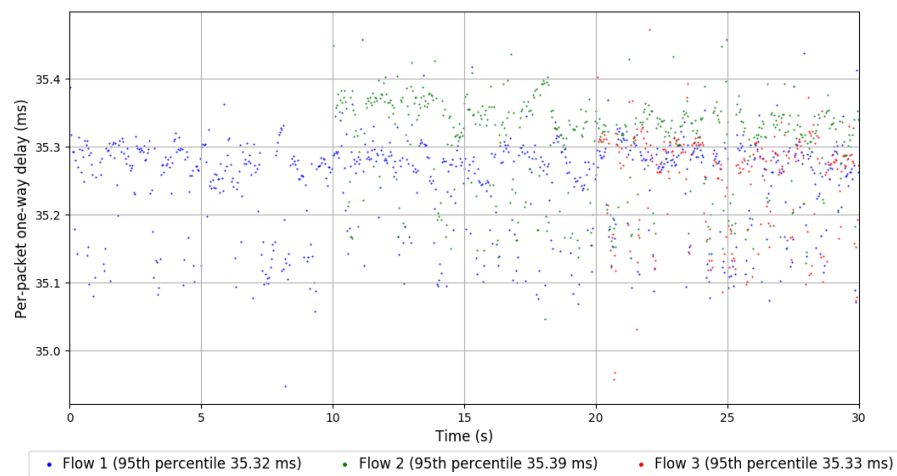
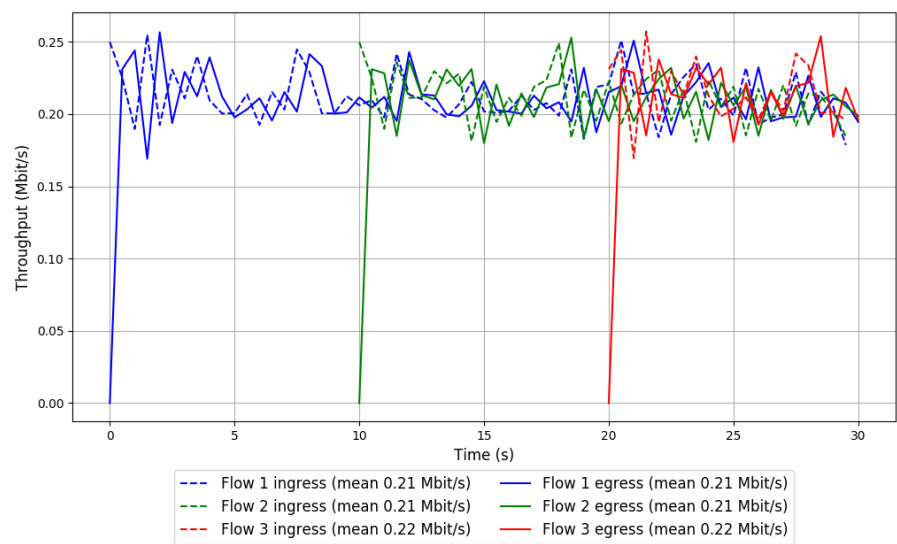
Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 35.326 ms

Loss rate: 0.00%



Run 8: Report of SReAM — Data Link



Run 9: Statistics of SReAM

Start at: 2018-08-01 10:47:18

End at: 2018-08-01 10:47:48

Local clock offset: 0.584 ms

Remote clock offset: 1.58 ms

# Below is generated by plot.py at 2018-08-01 11:51:46

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 35.388 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 35.385 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 35.396 ms

Loss rate: 0.00%

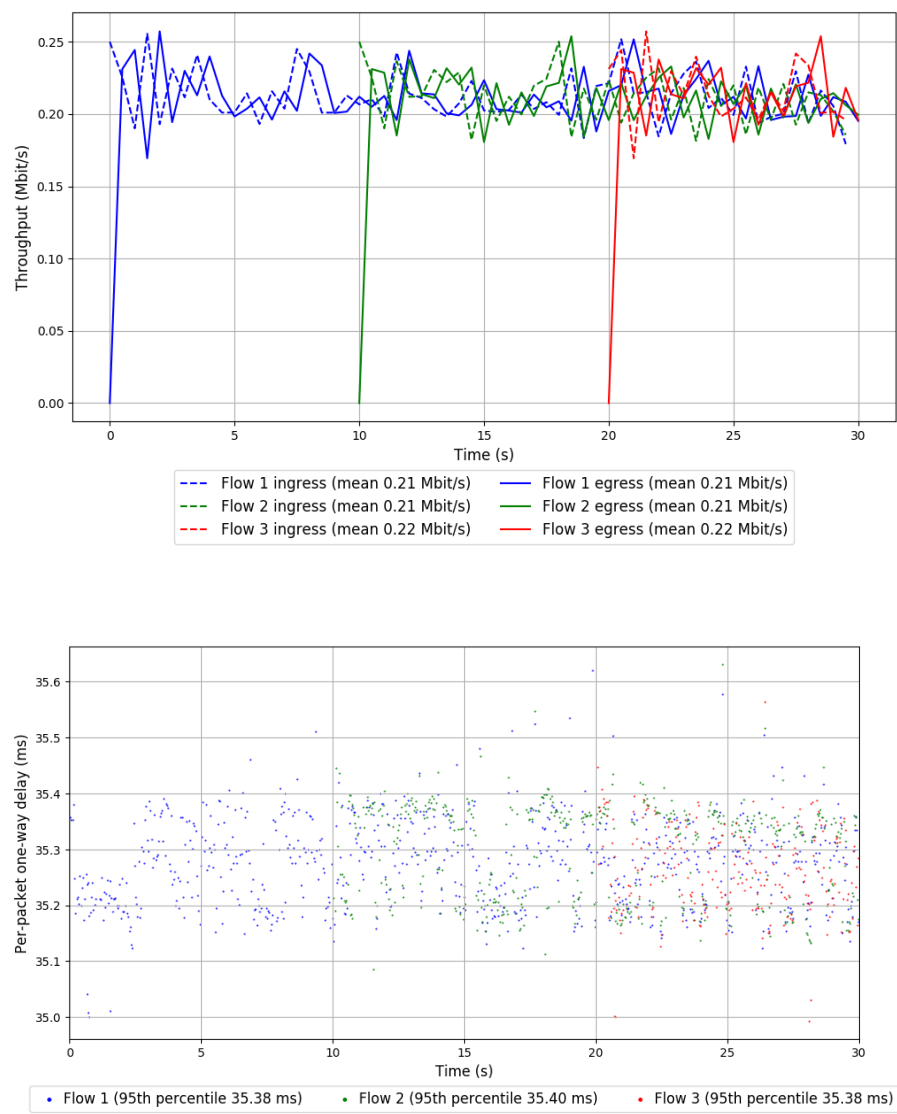
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 35.382 ms

Loss rate: 0.00%

Run 9: Report of SCReAM — Data Link

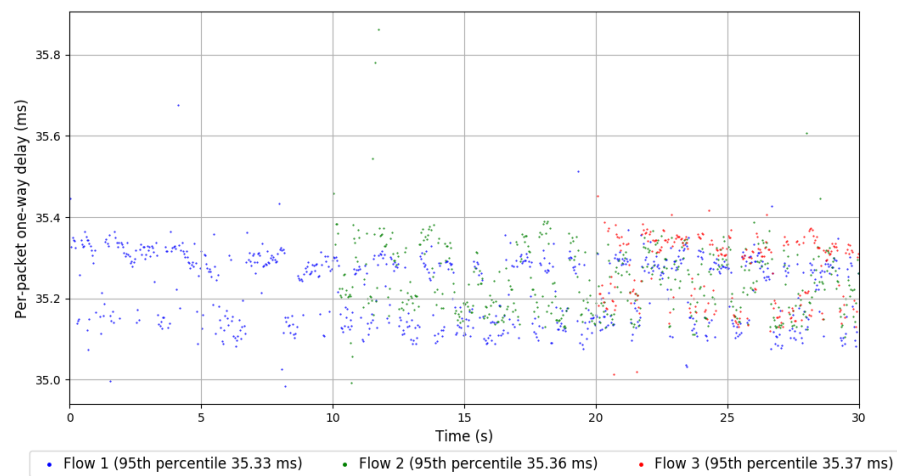
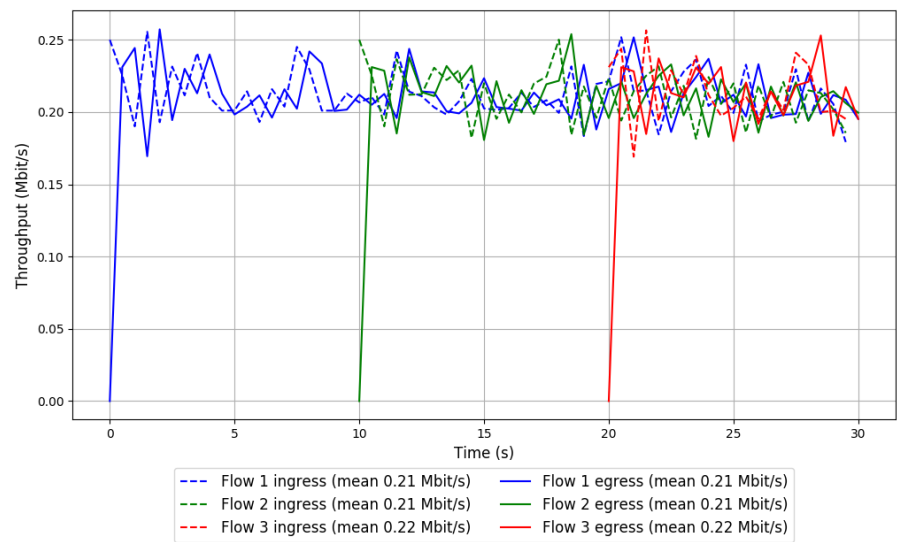


Run 10: Statistics of SReAM

Start at: 2018-08-01 11:10:10  
End at: 2018-08-01 11:10:40  
Local clock offset: -2.899 ms  
Remote clock offset: 1.808 ms

# Below is generated by plot.py at 2018-08-01 11:51:46  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 35.356 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 35.334 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 35.363 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 35.368 ms  
Loss rate: 0.00%

Run 10: Report of SCReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2018-08-01 07:57:22

End at: 2018-08-01 07:57:52

Local clock offset: 0.659 ms

Remote clock offset: 1.926 ms

# Below is generated by plot.py at 2018-08-01 11:51:56

# Datalink statistics

-- Total of 3 flows:

Average throughput: 21.17 Mbit/s

95th percentile per-packet one-way delay: 41.513 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 10.76 Mbit/s

95th percentile per-packet one-way delay: 41.472 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 10.48 Mbit/s

95th percentile per-packet one-way delay: 41.580 ms

Loss rate: 0.00%

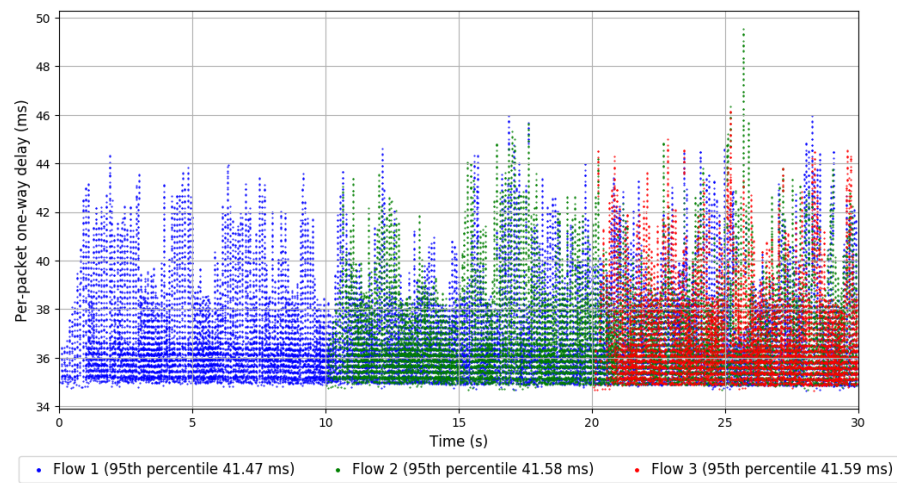
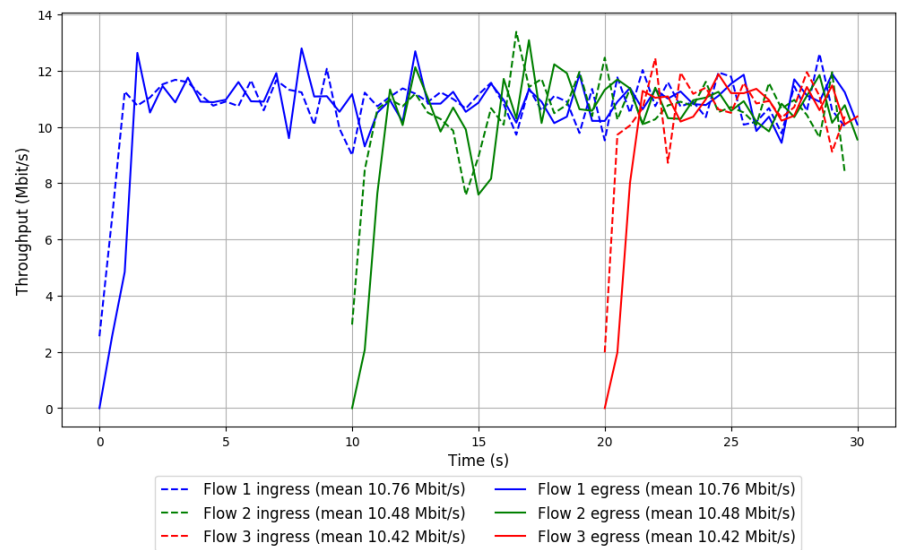
-- Flow 3:

Average throughput: 10.42 Mbit/s

95th percentile per-packet one-way delay: 41.592 ms

Loss rate: 0.00%

Run 1: Report of Sprout — Data Link



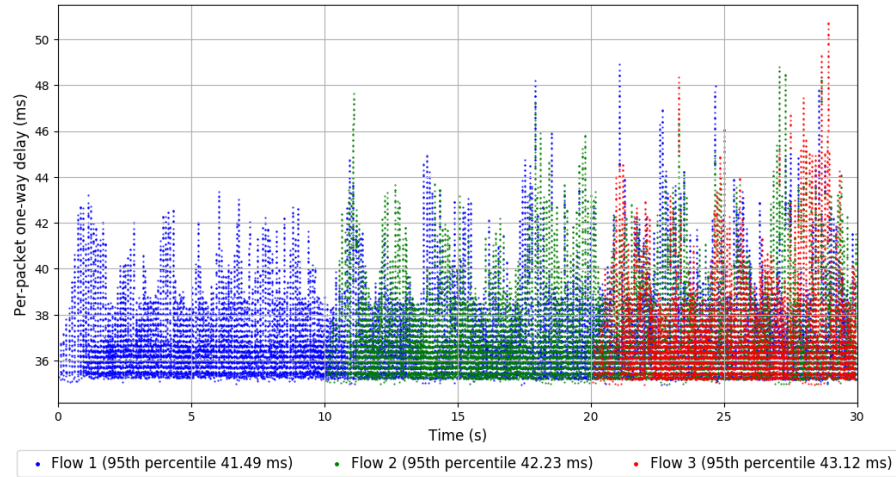
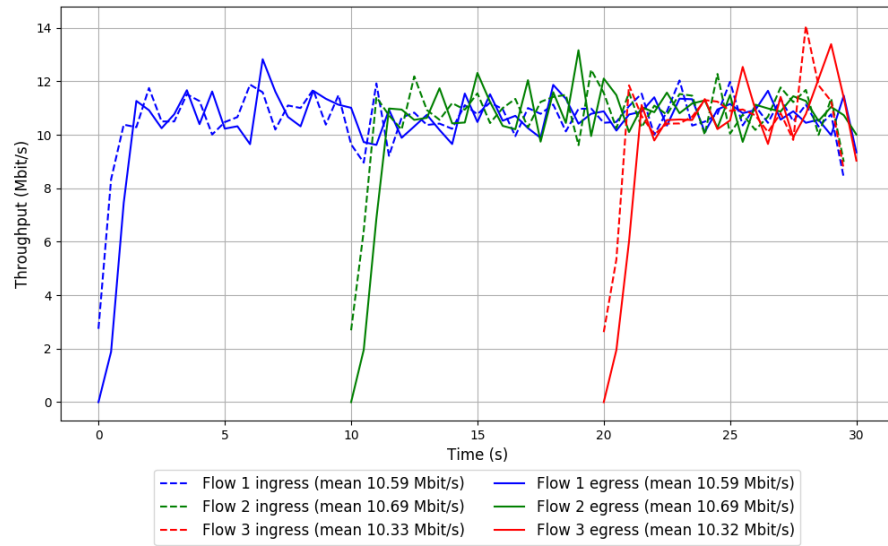
Run 2: Statistics of Sprout

Start at: 2018-08-01 08:20:13  
End at: 2018-08-01 08:20:43  
Local clock offset: 0.518 ms  
Remote clock offset: 4.501 ms

```
# Below is generated by plot.py at 2018-08-01 11:51:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 21.10 Mbit/s
95th percentile per-packet one-way delay: 42.002 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 10.59 Mbit/s
95th percentile per-packet one-way delay: 41.488 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 10.69 Mbit/s
95th percentile per-packet one-way delay: 42.233 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 10.32 Mbit/s
95th percentile per-packet one-way delay: 43.116 ms
Loss rate: 0.00%
```



## Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-08-01 08:43:06

End at: 2018-08-01 08:43:36

Local clock offset: 0.36 ms

Remote clock offset: 2.536 ms

# Below is generated by plot.py at 2018-08-01 11:51:58

# Datalink statistics

-- Total of 3 flows:

Average throughput: 21.32 Mbit/s

95th percentile per-packet one-way delay: 41.651 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 10.60 Mbit/s

95th percentile per-packet one-way delay: 41.362 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 10.80 Mbit/s

95th percentile per-packet one-way delay: 42.120 ms

Loss rate: 0.04%

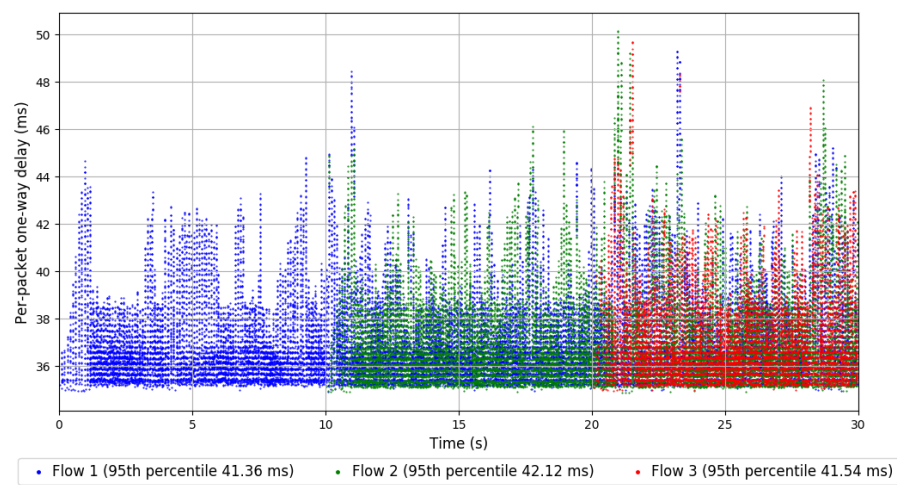
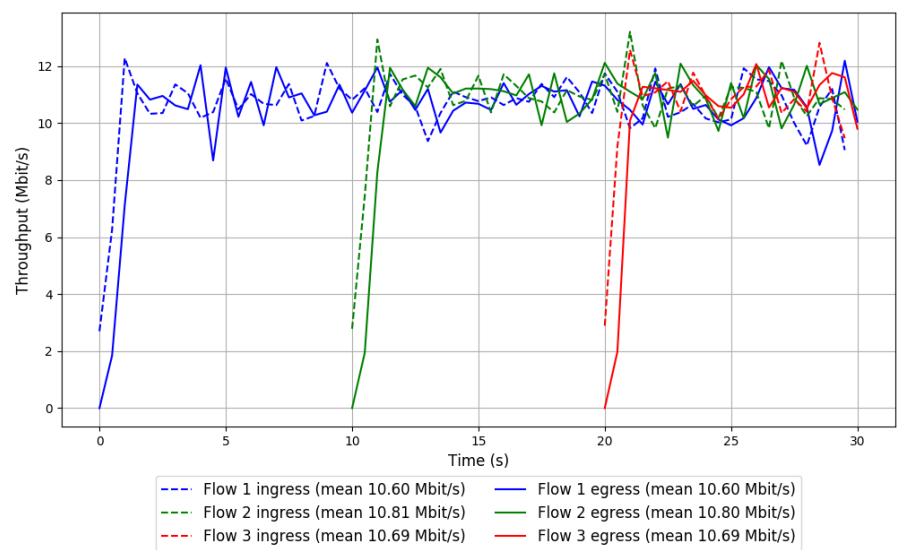
-- Flow 3:

Average throughput: 10.69 Mbit/s

95th percentile per-packet one-way delay: 41.541 ms

Loss rate: 0.00%

Run 3: Report of Sprout — Data Link

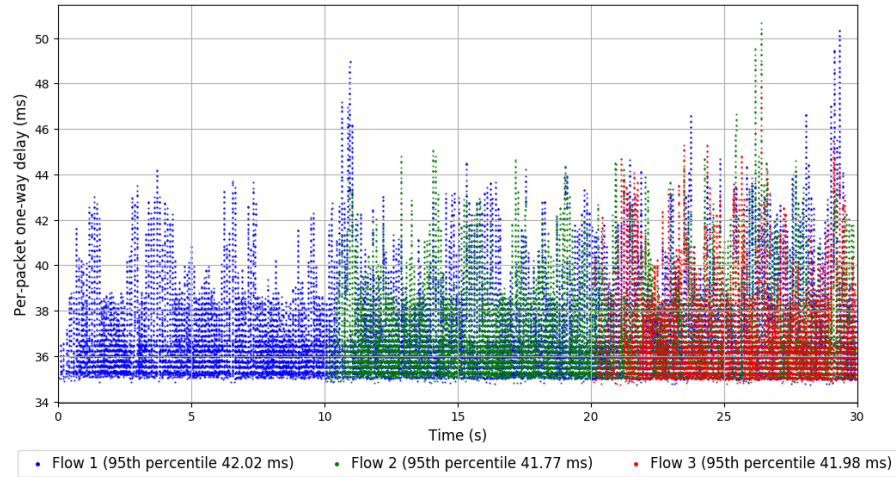
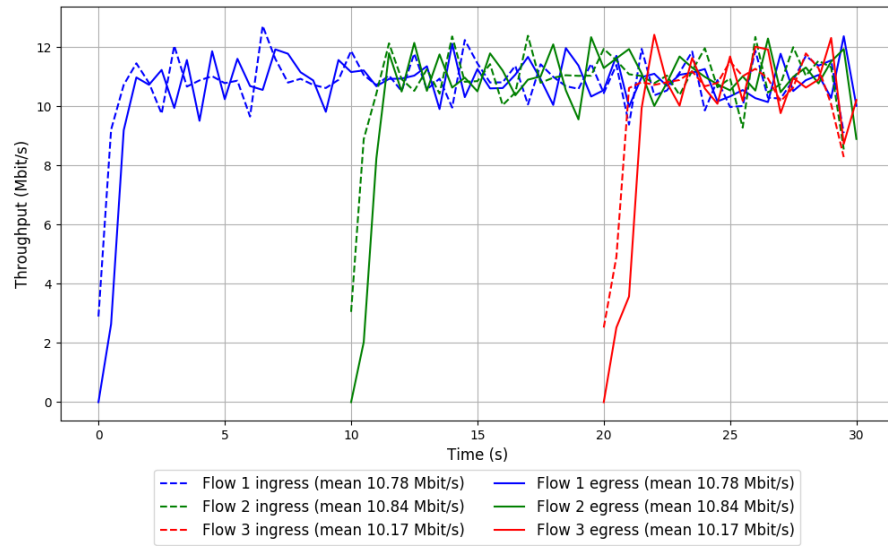


#### Run 4: Statistics of Sprout

Start at: 2018-08-01 09:06:03  
End at: 2018-08-01 09:06:33  
Local clock offset: -2.561 ms  
Remote clock offset: 1.763 ms

```
# Below is generated by plot.py at 2018-08-01 11:51:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 21.34 Mbit/s
95th percentile per-packet one-way delay: 41.936 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 10.78 Mbit/s
95th percentile per-packet one-way delay: 42.015 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 10.84 Mbit/s
95th percentile per-packet one-way delay: 41.774 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 10.17 Mbit/s
95th percentile per-packet one-way delay: 41.978 ms
Loss rate: 0.00%
```

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

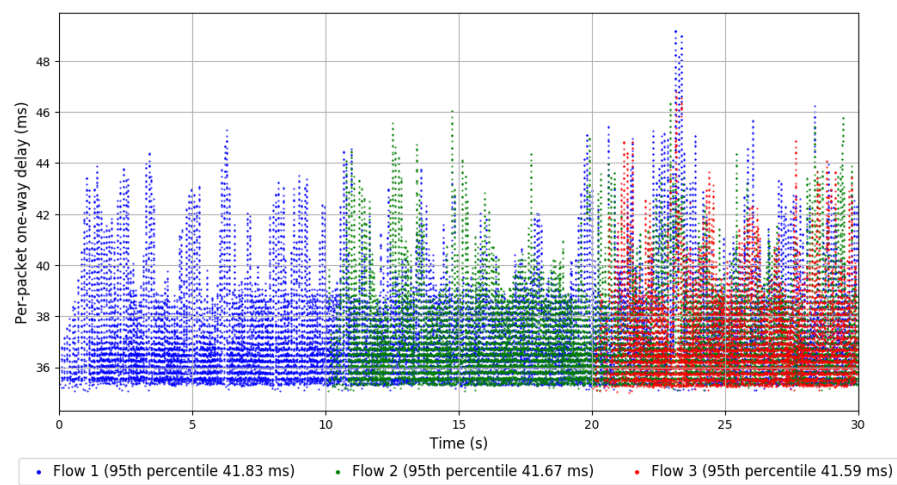
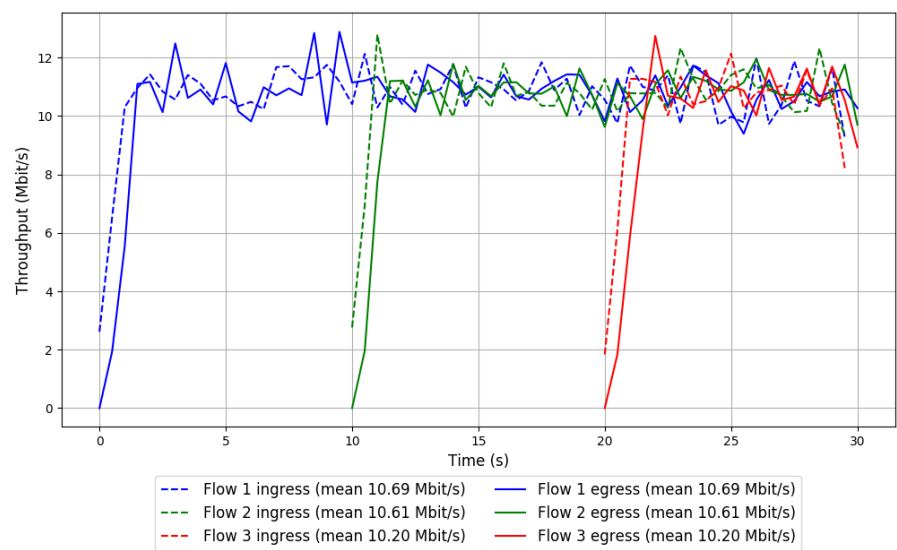


Run 5: Statistics of Sprout

Start at: 2018-08-01 09:28:55  
End at: 2018-08-01 09:29:25  
Local clock offset: -3.478 ms  
Remote clock offset: 2.081 ms

```
# Below is generated by plot.py at 2018-08-01 11:51:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 21.11 Mbit/s
95th percentile per-packet one-way delay: 41.770 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 10.69 Mbit/s
95th percentile per-packet one-way delay: 41.833 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 10.61 Mbit/s
95th percentile per-packet one-way delay: 41.674 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 10.20 Mbit/s
95th percentile per-packet one-way delay: 41.590 ms
Loss rate: 0.00%
```

Run 5: Report of Sprout — Data Link



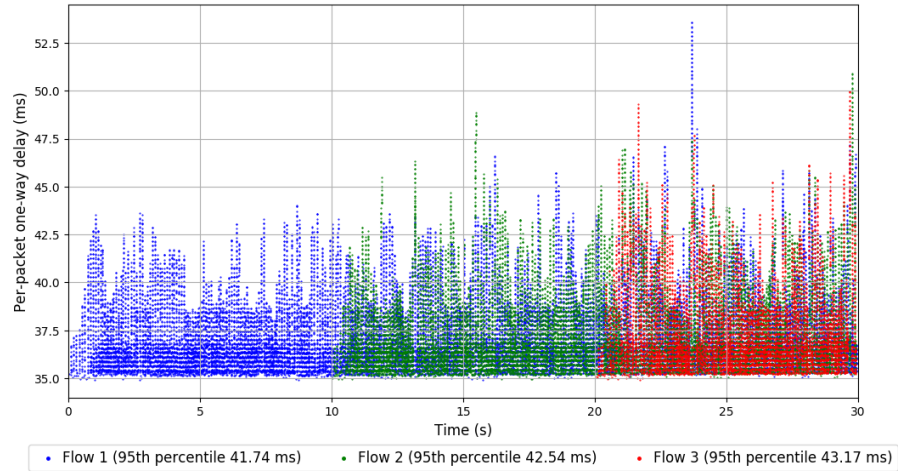
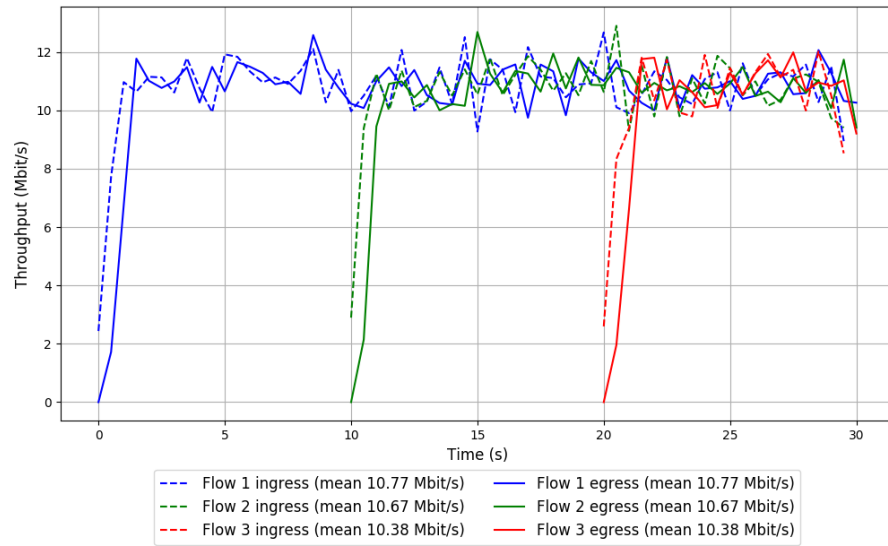
Run 6: Statistics of Sprout

Start at: 2018-08-01 09:52:00  
End at: 2018-08-01 09:52:30  
Local clock offset: -3.379 ms  
Remote clock offset: 2.021 ms

# Below is generated by plot.py at 2018-08-01 11:52:04  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 21.29 Mbit/s  
95th percentile per-packet one-way delay: 42.272 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 10.77 Mbit/s  
95th percentile per-packet one-way delay: 41.737 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 10.67 Mbit/s  
95th percentile per-packet one-way delay: 42.537 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 10.38 Mbit/s  
95th percentile per-packet one-way delay: 43.166 ms  
Loss rate: 0.00%



## Run 6: Report of Sprout — Data Link

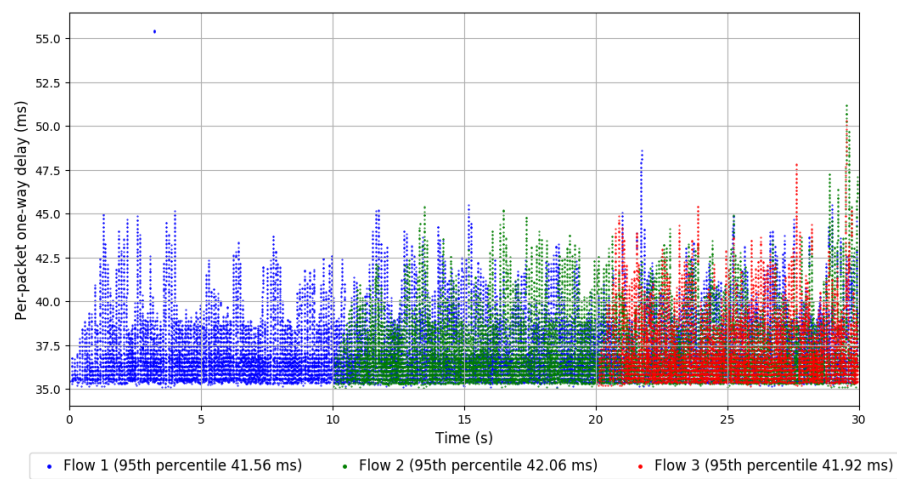
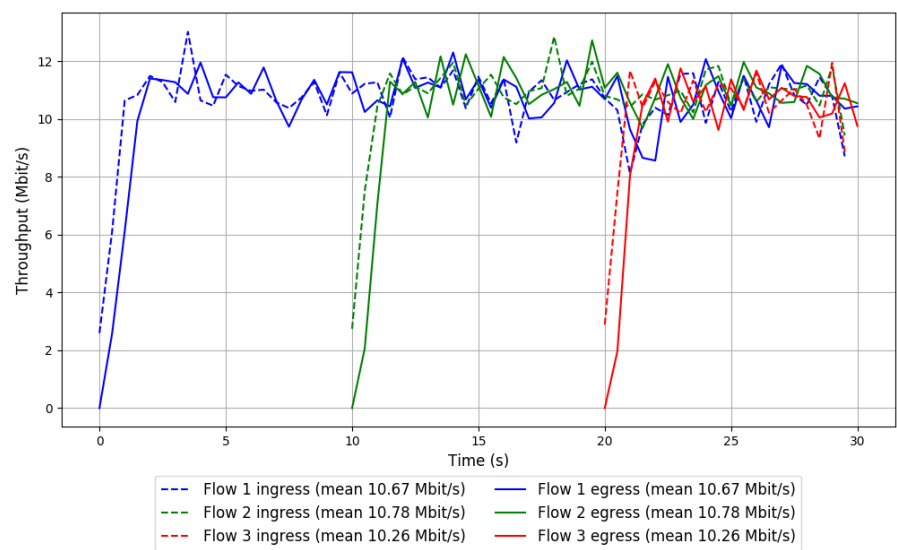


Run 7: Statistics of Sprout

Start at: 2018-08-01 10:14:59  
End at: 2018-08-01 10:15:29  
Local clock offset: 0.347 ms  
Remote clock offset: 1.963 ms

```
# Below is generated by plot.py at 2018-08-01 11:52:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 21.24 Mbit/s
95th percentile per-packet one-way delay: 41.793 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 10.67 Mbit/s
95th percentile per-packet one-way delay: 41.563 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 10.78 Mbit/s
95th percentile per-packet one-way delay: 42.061 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 10.26 Mbit/s
95th percentile per-packet one-way delay: 41.918 ms
Loss rate: 0.00%
```

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-08-01 10:37:55

End at: 2018-08-01 10:38:25

Local clock offset: 0.564 ms

Remote clock offset: 1.676 ms

# Below is generated by plot.py at 2018-08-01 11:52:08

# Datalink statistics

-- Total of 3 flows:

Average throughput: 21.22 Mbit/s

95th percentile per-packet one-way delay: 41.851 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 10.76 Mbit/s

95th percentile per-packet one-way delay: 41.579 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 10.70 Mbit/s

95th percentile per-packet one-way delay: 42.179 ms

Loss rate: 0.00%

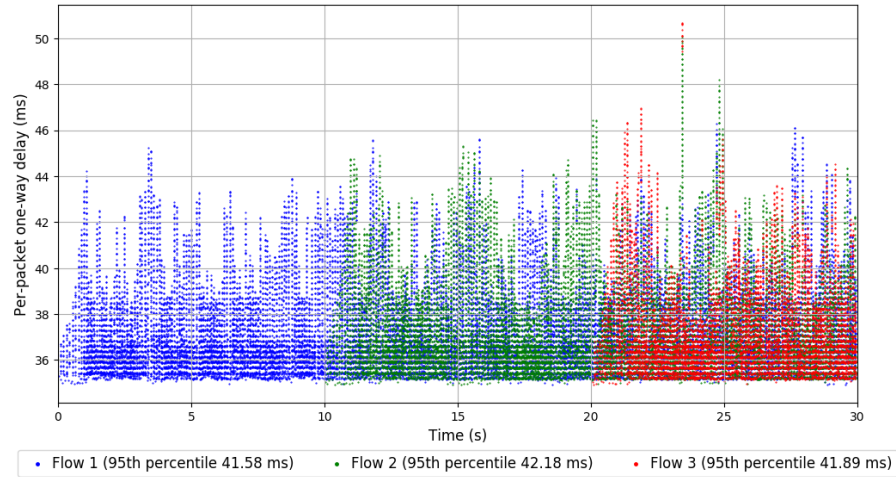
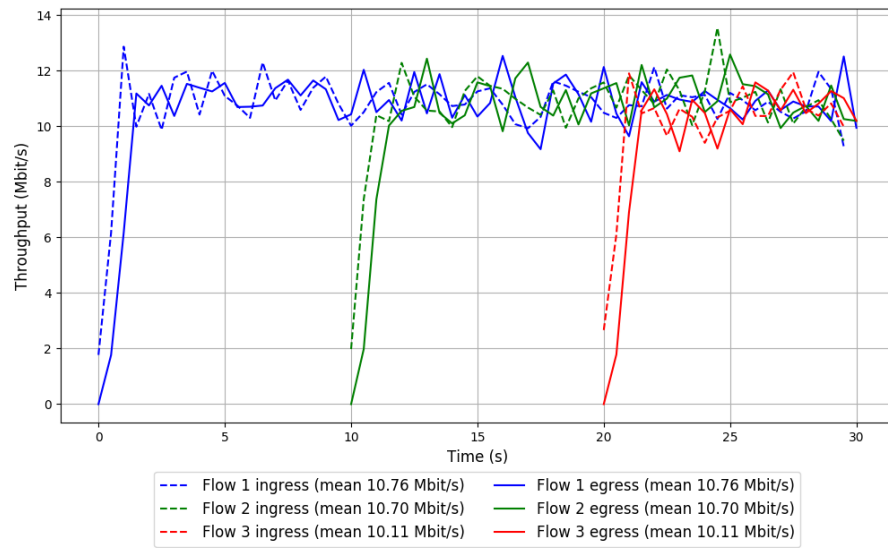
-- Flow 3:

Average throughput: 10.11 Mbit/s

95th percentile per-packet one-way delay: 41.894 ms

Loss rate: 0.00%

## Run 8: Report of Sprout — Data Link

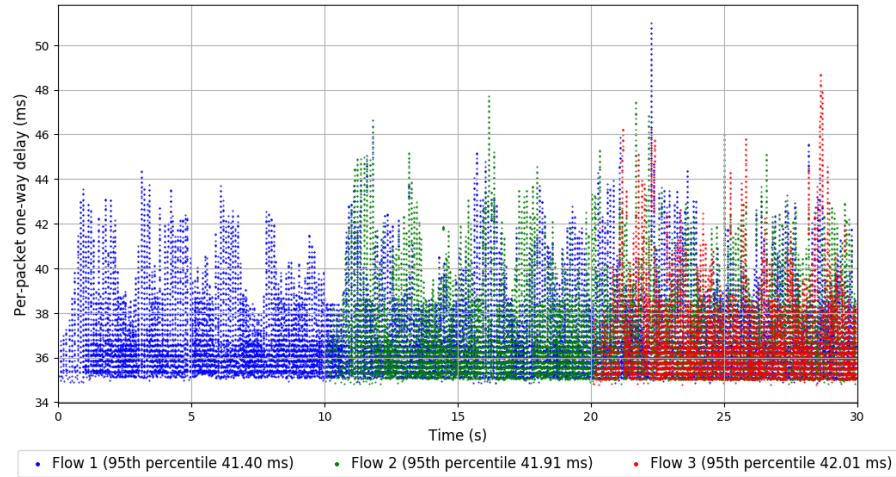
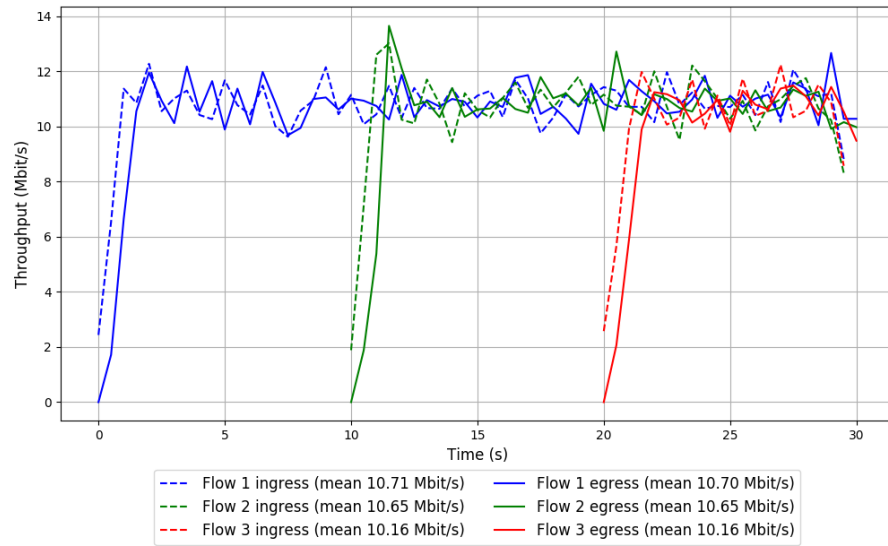


Run 9: Statistics of Sprout

Start at: 2018-08-01 11:00:48  
End at: 2018-08-01 11:01:18  
Local clock offset: -1.637 ms  
Remote clock offset: 1.75 ms

```
# Below is generated by plot.py at 2018-08-01 11:52:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 21.14 Mbit/s
95th percentile per-packet one-way delay: 41.641 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 10.70 Mbit/s
95th percentile per-packet one-way delay: 41.397 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 10.65 Mbit/s
95th percentile per-packet one-way delay: 41.908 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 10.16 Mbit/s
95th percentile per-packet one-way delay: 42.014 ms
Loss rate: 0.00%
```

## Run 9: Report of Sprout — Data Link



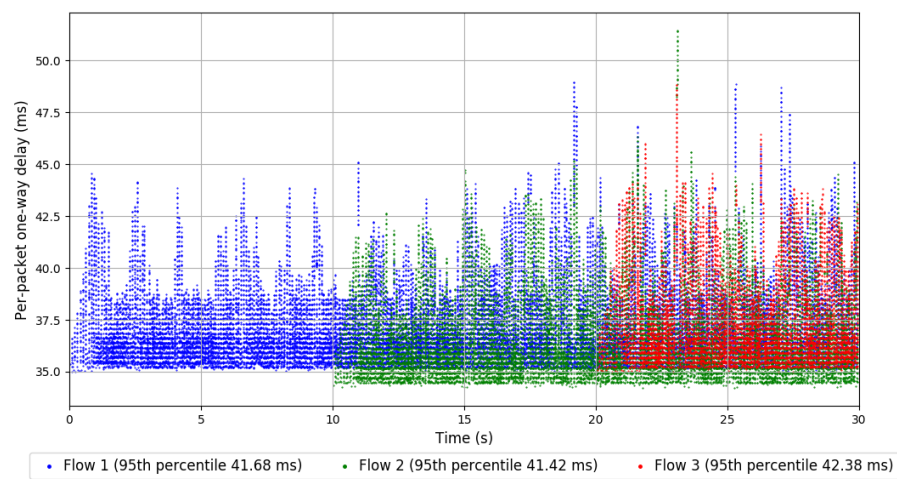
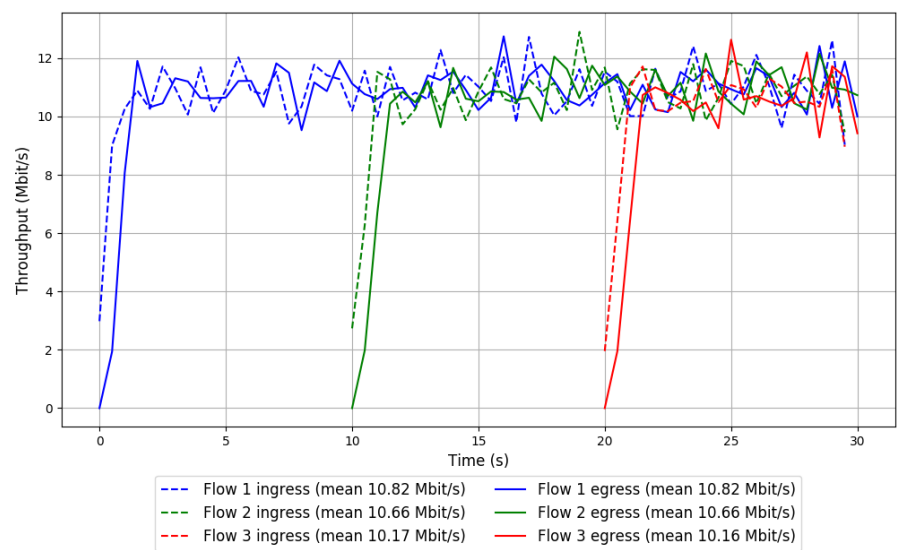
Run 10: Statistics of Sprout

Start at: 2018-08-01 11:23:44  
End at: 2018-08-01 11:24:14  
Local clock offset: -3.592 ms  
Remote clock offset: 1.891 ms

# Below is generated by plot.py at 2018-08-01 11:52:16  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 21.26 Mbit/s  
95th percentile per-packet one-way delay: 41.737 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 10.82 Mbit/s  
95th percentile per-packet one-way delay: 41.676 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 10.66 Mbit/s  
95th percentile per-packet one-way delay: 41.421 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 10.16 Mbit/s  
95th percentile per-packet one-way delay: 42.383 ms  
Loss rate: 0.00%



Run 10: Report of Sprout — Data Link

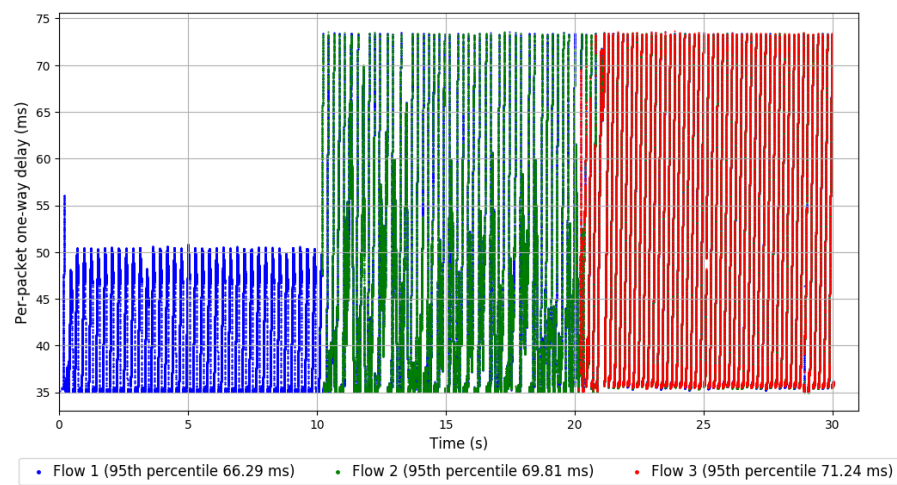
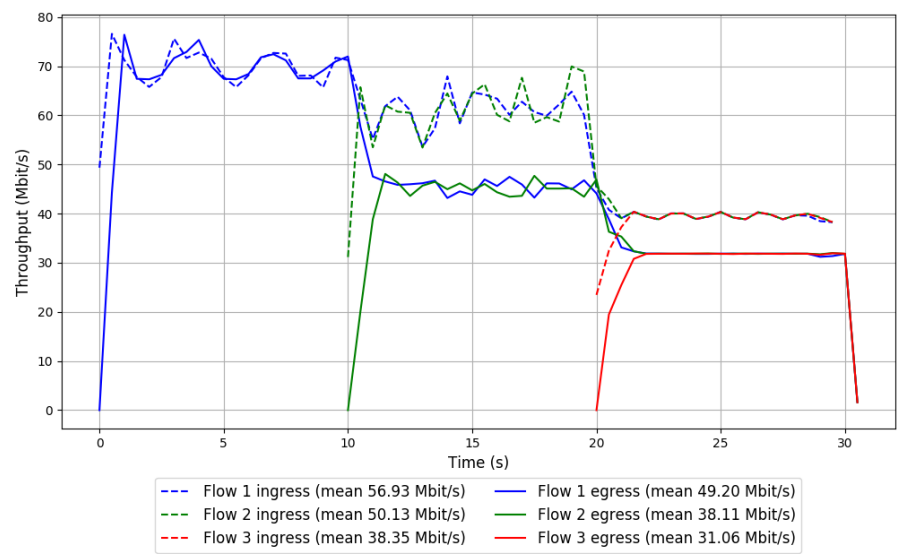


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-08-01 07:55:58
End at: 2018-08-01 07:56:28
Local clock offset: 0.727 ms
Remote clock offset: 1.799 ms

# Below is generated by plot.py at 2018-08-01 11:53:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 84.90 Mbit/s
95th percentile per-packet one-way delay: 68.660 ms
Loss rate: 17.63%
-- Flow 1:
Average throughput: 49.20 Mbit/s
95th percentile per-packet one-way delay: 66.294 ms
Loss rate: 13.57%
-- Flow 2:
Average throughput: 38.11 Mbit/s
95th percentile per-packet one-way delay: 69.813 ms
Loss rate: 23.98%
-- Flow 3:
Average throughput: 31.06 Mbit/s
95th percentile per-packet one-way delay: 71.241 ms
Loss rate: 19.12%
```

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



Run 2: Statistics of TaoVA-100x

Start at: 2018-08-01 08:18:49

End at: 2018-08-01 08:19:19

Local clock offset: 0.42 ms

Remote clock offset: 4.364 ms

# Below is generated by plot.py at 2018-08-01 11:54:00

# Datalink statistics

-- Total of 3 flows:

Average throughput: 88.31 Mbit/s

95th percentile per-packet one-way delay: 68.162 ms

Loss rate: 16.28%

-- Flow 1:

Average throughput: 52.81 Mbit/s

95th percentile per-packet one-way delay: 65.471 ms

Loss rate: 12.35%

-- Flow 2:

Average throughput: 38.87 Mbit/s

95th percentile per-packet one-way delay: 69.438 ms

Loss rate: 22.33%

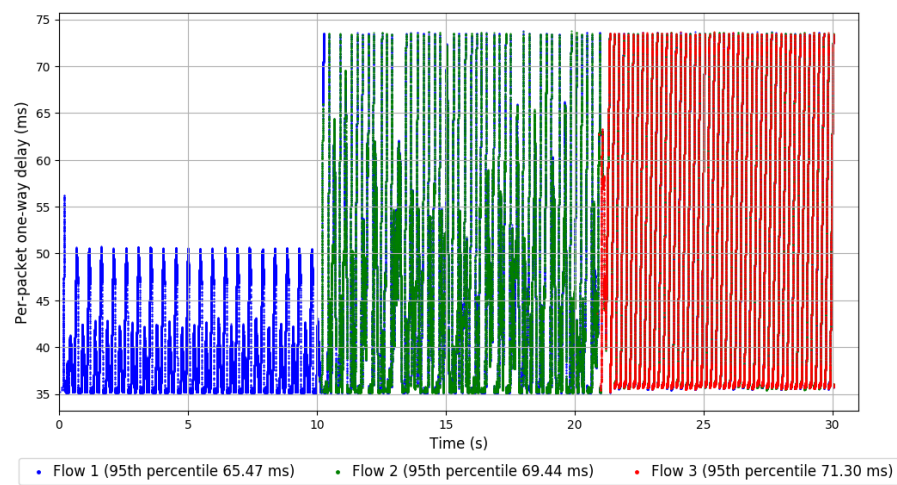
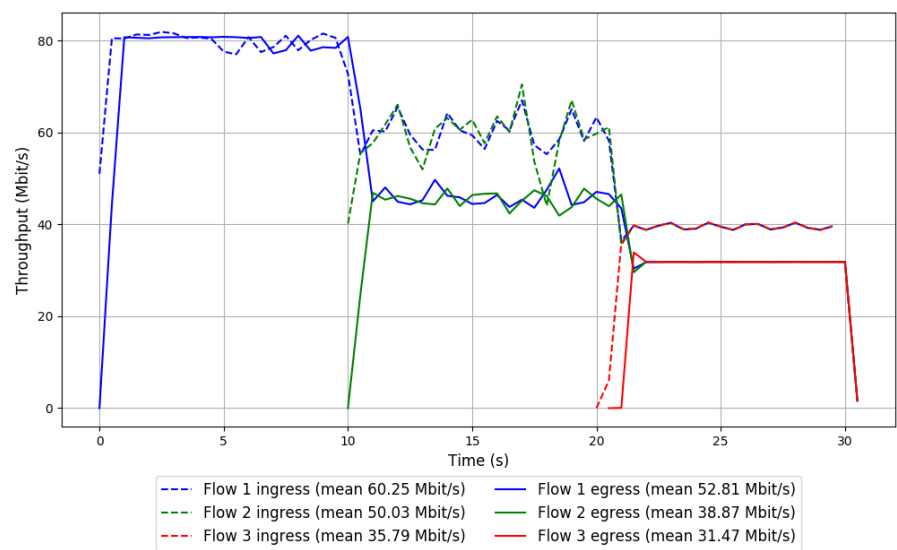
-- Flow 3:

Average throughput: 31.47 Mbit/s

95th percentile per-packet one-way delay: 71.299 ms

Loss rate: 19.21%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-08-01 08:41:43

End at: 2018-08-01 08:42:13

Local clock offset: 0.355 ms

Remote clock offset: 2.783 ms

# Below is generated by plot.py at 2018-08-01 11:54:00

# Datalink statistics

-- Total of 3 flows:

Average throughput: 87.30 Mbit/s

95th percentile per-packet one-way delay: 68.437 ms

Loss rate: 16.51%

-- Flow 1:

Average throughput: 51.53 Mbit/s

95th percentile per-packet one-way delay: 65.649 ms

Loss rate: 12.53%

-- Flow 2:

Average throughput: 38.34 Mbit/s

95th percentile per-packet one-way delay: 69.669 ms

Loss rate: 22.53%

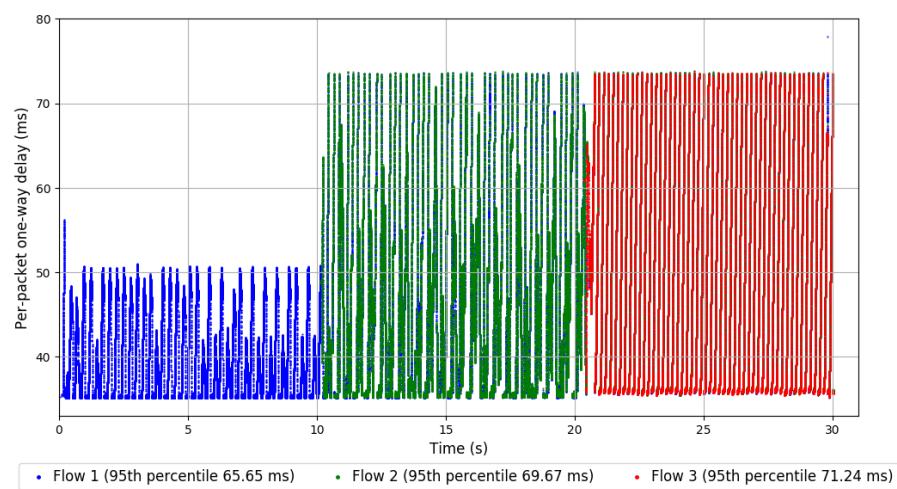
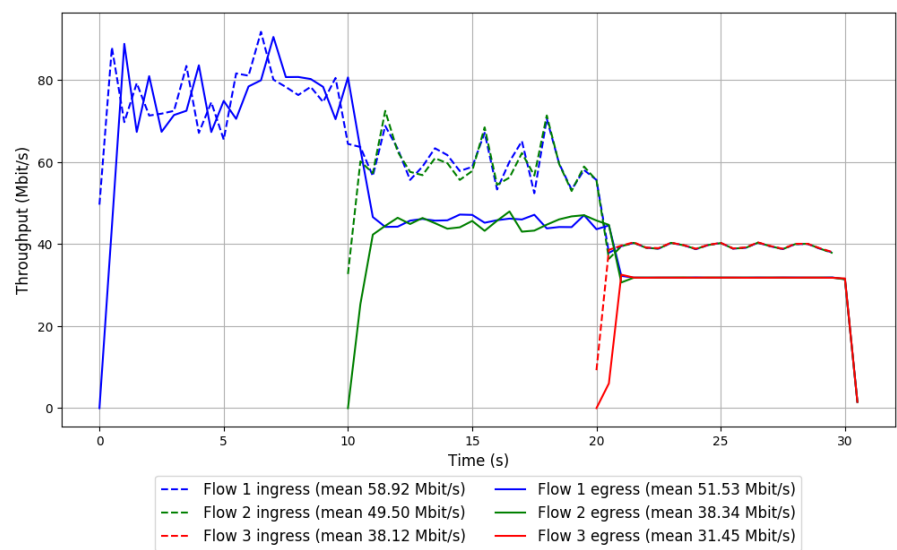
-- Flow 3:

Average throughput: 31.45 Mbit/s

95th percentile per-packet one-way delay: 71.242 ms

Loss rate: 19.32%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-08-01 09:04:39

End at: 2018-08-01 09:05:09

Local clock offset: -2.367 ms

Remote clock offset: 1.698 ms

# Below is generated by plot.py at 2018-08-01 11:54:09

# Datalink statistics

-- Total of 3 flows:

Average throughput: 88.19 Mbit/s

95th percentile per-packet one-way delay: 68.173 ms

Loss rate: 16.68%

-- Flow 1:

Average throughput: 52.65 Mbit/s

95th percentile per-packet one-way delay: 65.283 ms

Loss rate: 12.57%

-- Flow 2:

Average throughput: 38.32 Mbit/s

95th percentile per-packet one-way delay: 69.663 ms

Loss rate: 22.96%

-- Flow 3:

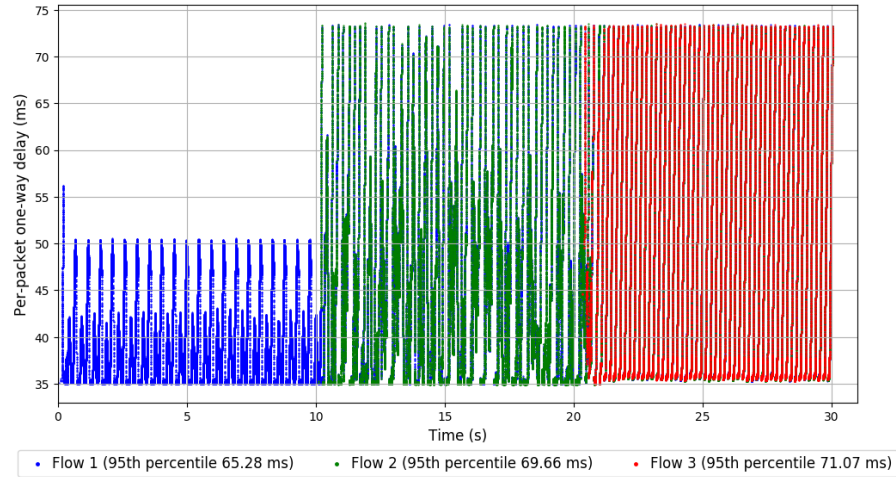
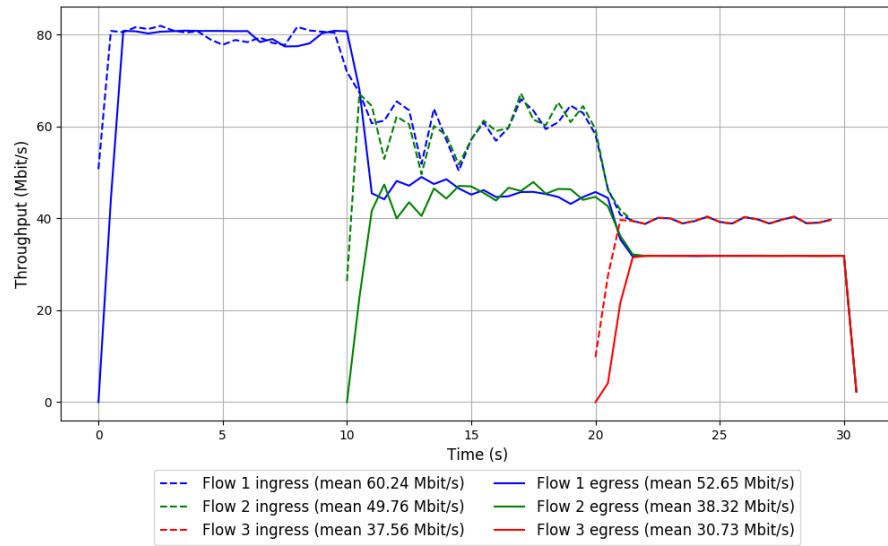
Average throughput: 30.73 Mbit/s

95th percentile per-packet one-way delay: 71.072 ms

Loss rate: 19.78%



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



Run 5: Statistics of TaoVA-100x

Start at: 2018-08-01 09:27:31

End at: 2018-08-01 09:28:01

Local clock offset: -3.441 ms

Remote clock offset: 2.088 ms

# Below is generated by plot.py at 2018-08-01 11:54:09

# Datalink statistics

-- Total of 3 flows:

Average throughput: 84.96 Mbit/s

95th percentile per-packet one-way delay: 69.078 ms

Loss rate: 17.10%

-- Flow 1:

Average throughput: 48.94 Mbit/s

95th percentile per-packet one-way delay: 67.146 ms

Loss rate: 13.27%

-- Flow 2:

Average throughput: 38.34 Mbit/s

95th percentile per-packet one-way delay: 69.933 ms

Loss rate: 22.83%

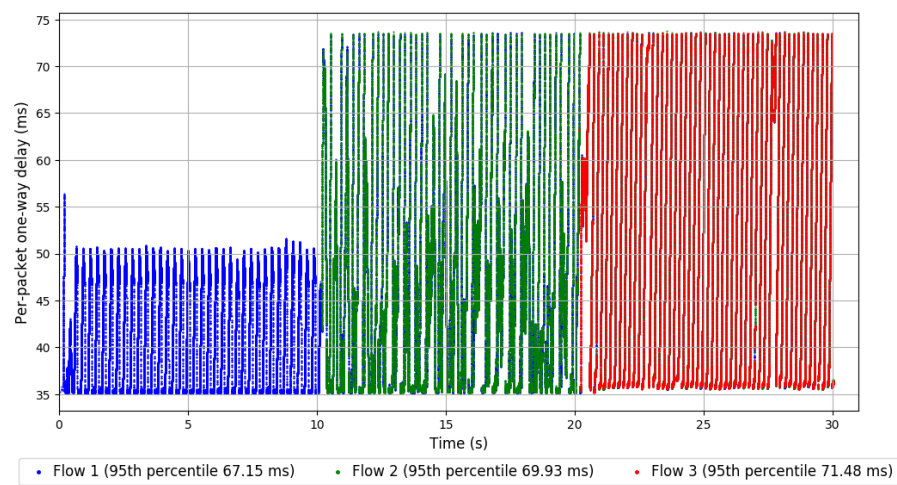
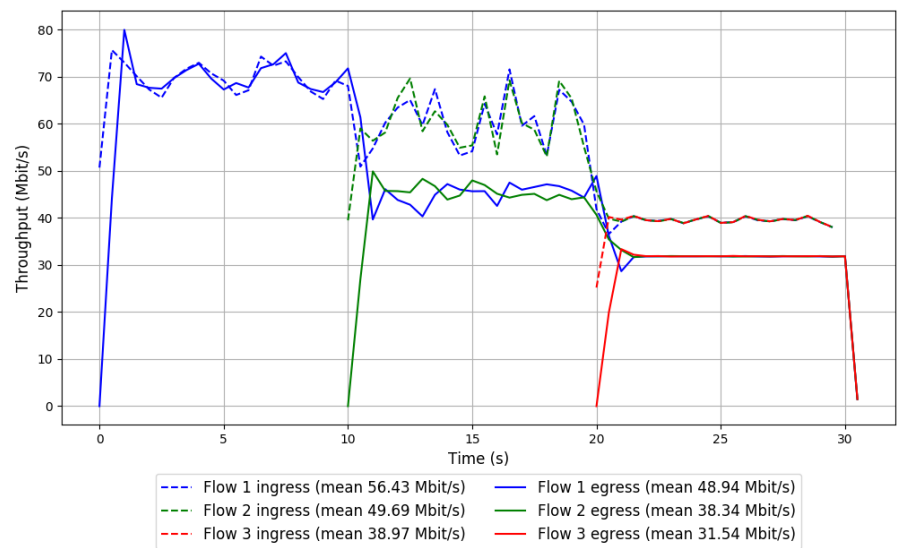
-- Flow 3:

Average throughput: 31.54 Mbit/s

95th percentile per-packet one-way delay: 71.485 ms

Loss rate: 19.15%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-08-01 09:50:36

End at: 2018-08-01 09:51:06

Local clock offset: -3.349 ms

Remote clock offset: 2.103 ms

# Below is generated by plot.py at 2018-08-01 11:54:12

# Datalink statistics

-- Total of 3 flows:

Average throughput: 87.49 Mbit/s

95th percentile per-packet one-way delay: 68.538 ms

Loss rate: 16.84%

-- Flow 1:

Average throughput: 51.43 Mbit/s

95th percentile per-packet one-way delay: 66.073 ms

Loss rate: 12.81%

-- Flow 2:

Average throughput: 38.52 Mbit/s

95th percentile per-packet one-way delay: 69.767 ms

Loss rate: 22.82%

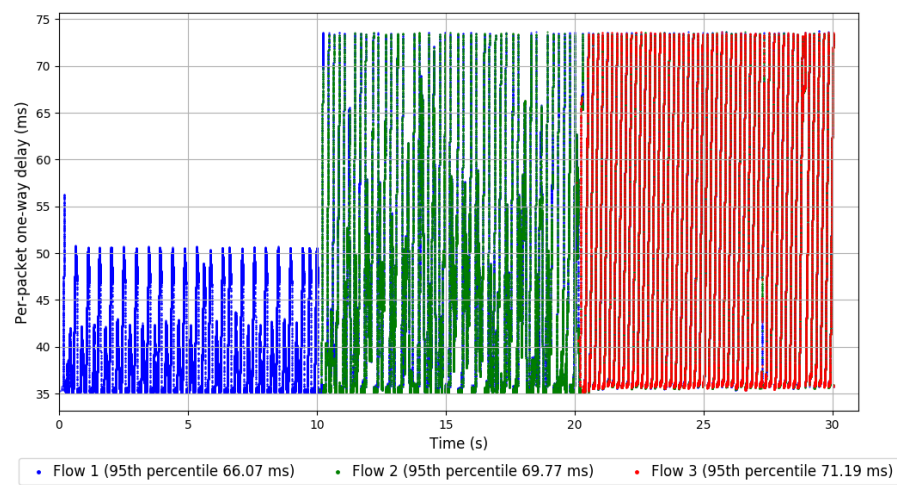
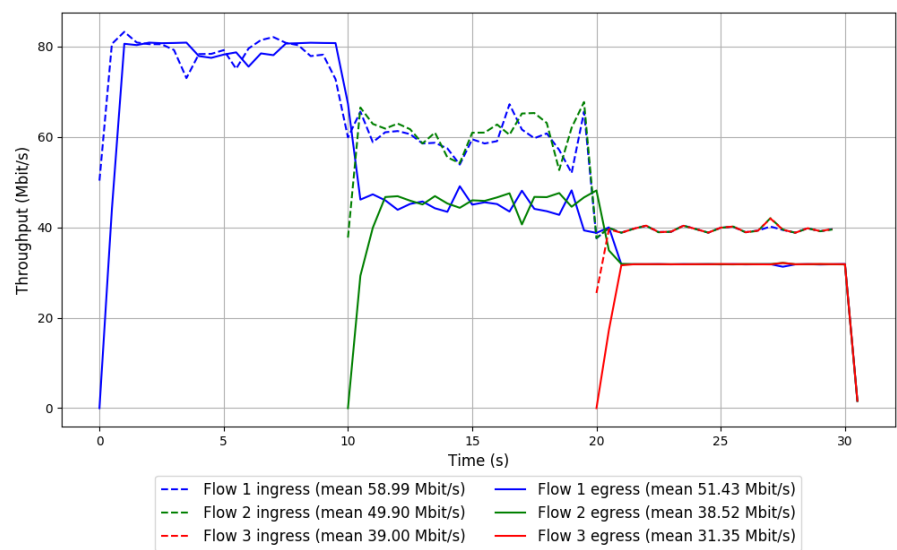
-- Flow 3:

Average throughput: 31.35 Mbit/s

95th percentile per-packet one-way delay: 71.192 ms

Loss rate: 19.79%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-08-01 10:13:34

End at: 2018-08-01 10:14:04

Local clock offset: 0.352 ms

Remote clock offset: 1.91 ms

# Below is generated by plot.py at 2018-08-01 11:54:17

# Datalink statistics

-- Total of 3 flows:

Average throughput: 86.71 Mbit/s

95th percentile per-packet one-way delay: 69.133 ms

Loss rate: 16.63%

-- Flow 1:

Average throughput: 51.94 Mbit/s

95th percentile per-packet one-way delay: 66.288 ms

Loss rate: 12.85%

-- Flow 2:

Average throughput: 39.89 Mbit/s

95th percentile per-packet one-way delay: 69.974 ms

Loss rate: 22.11%

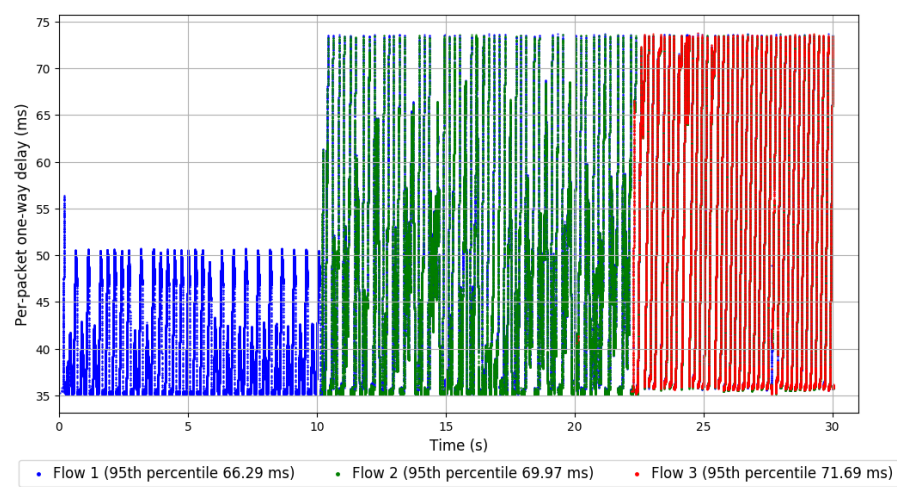
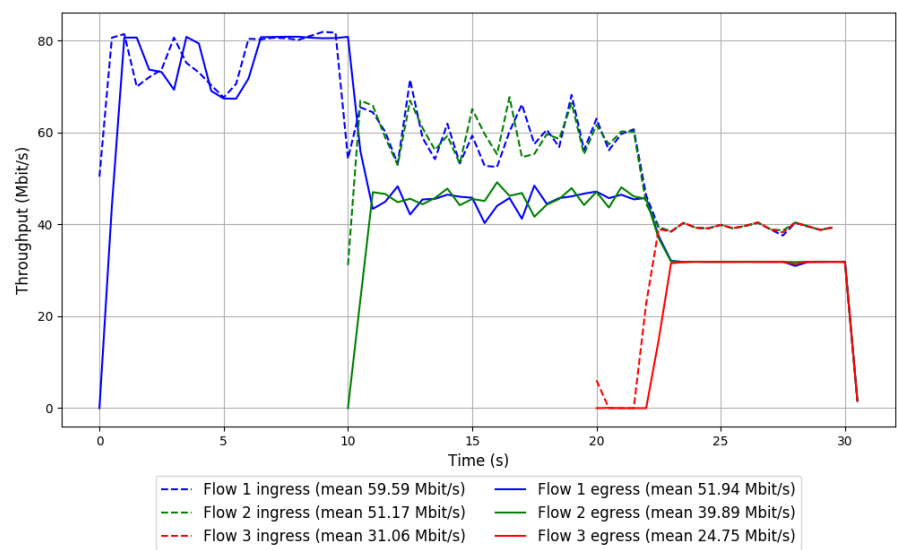
-- Flow 3:

Average throughput: 24.75 Mbit/s

95th percentile per-packet one-way delay: 71.694 ms

Loss rate: 20.37%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-08-01 10:36:30

End at: 2018-08-01 10:37:00

Local clock offset: 0.539 ms

Remote clock offset: 1.764 ms

# Below is generated by plot.py at 2018-08-01 11:54:19

# Datalink statistics

-- Total of 3 flows:

Average throughput: 88.29 Mbit/s

95th percentile per-packet one-way delay: 68.962 ms

Loss rate: 16.02%

-- Flow 1:

Average throughput: 52.14 Mbit/s

95th percentile per-packet one-way delay: 66.126 ms

Loss rate: 12.09%

-- Flow 2:

Average throughput: 38.75 Mbit/s

95th percentile per-packet one-way delay: 70.048 ms

Loss rate: 21.77%

-- Flow 3:

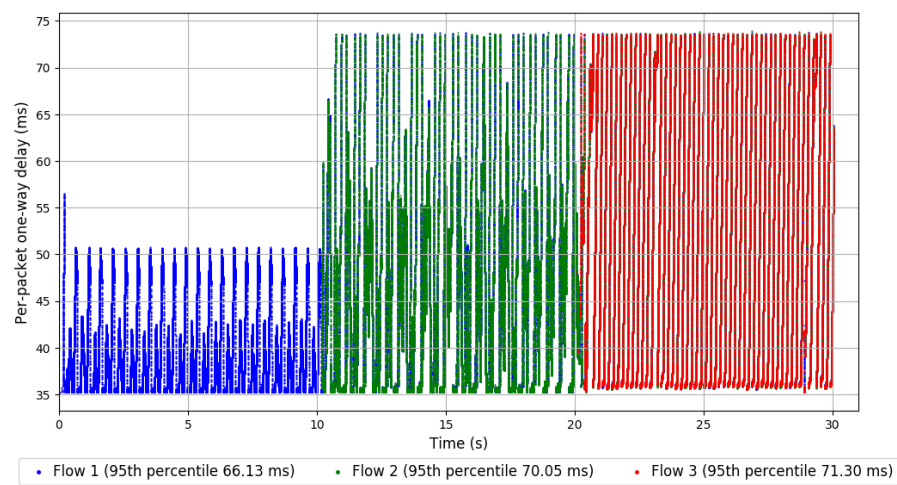
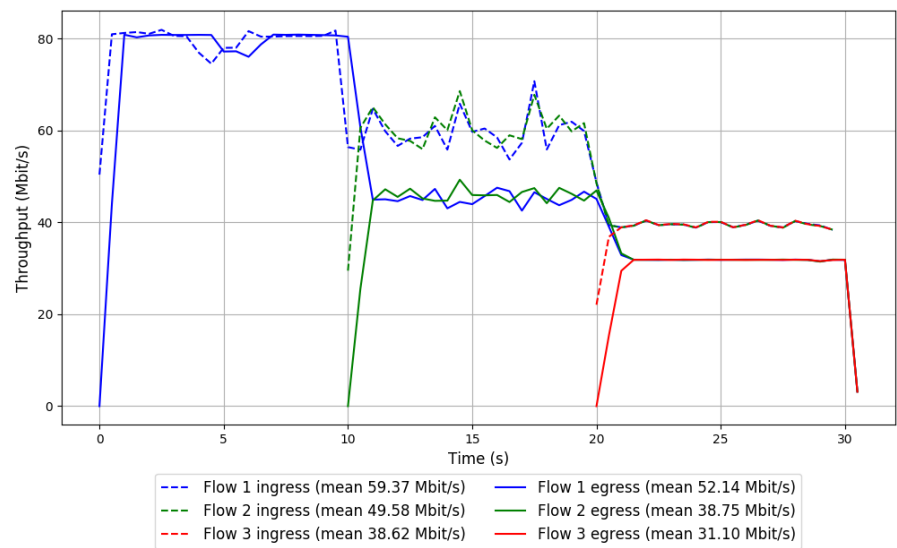
Average throughput: 31.10 Mbit/s

95th percentile per-packet one-way delay: 71.296 ms

Loss rate: 19.36%



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



Run 9: Statistics of TaoVA-100x

Start at: 2018-08-01 10:59:24

End at: 2018-08-01 10:59:54

Local clock offset: -1.305 ms

Remote clock offset: 1.72 ms

# Below is generated by plot.py at 2018-08-01 11:56:09

# Datalink statistics

-- Total of 3 flows:

Average throughput: 87.38 Mbit/s

95th percentile per-packet one-way delay: 68.912 ms

Loss rate: 17.41%

-- Flow 1:

Average throughput: 51.59 Mbit/s

95th percentile per-packet one-way delay: 66.095 ms

Loss rate: 13.40%

-- Flow 2:

Average throughput: 38.75 Mbit/s

95th percentile per-packet one-way delay: 69.895 ms

Loss rate: 23.68%

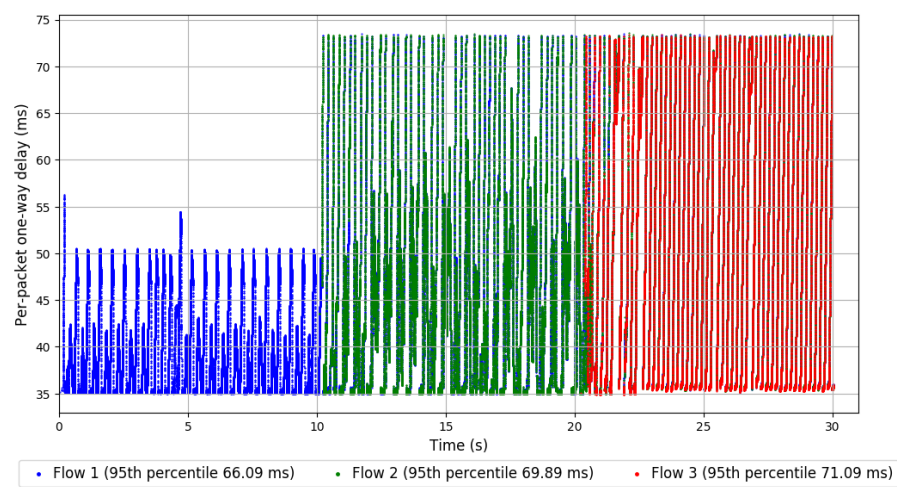
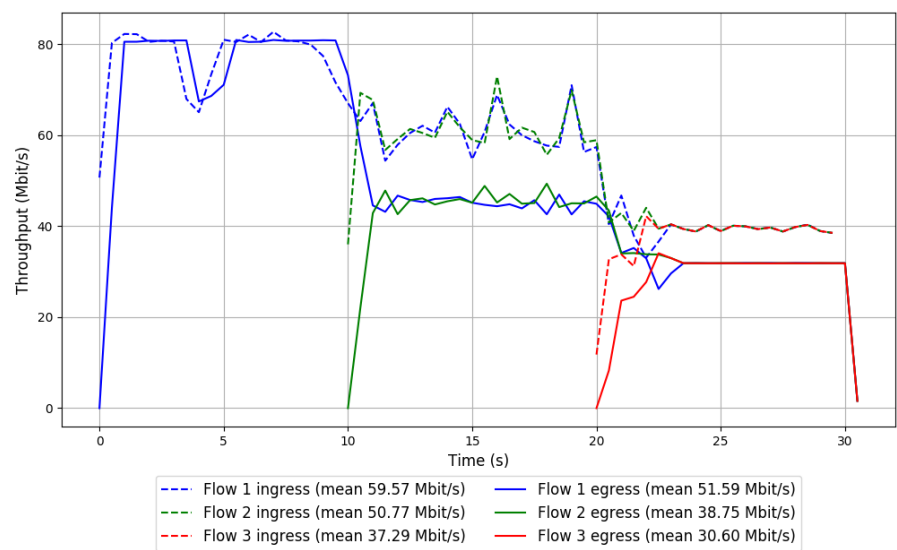
-- Flow 3:

Average throughput: 30.60 Mbit/s

95th percentile per-packet one-way delay: 71.087 ms

Loss rate: 19.59%

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



Run 10: Statistics of TaoVA-100x

Start at: 2018-08-01 11:22:20

End at: 2018-08-01 11:22:50

Local clock offset: -3.519 ms

Remote clock offset: 1.91 ms

# Below is generated by plot.py at 2018-08-01 11:56:09

# Datalink statistics

-- Total of 3 flows:

Average throughput: 85.08 Mbit/s

95th percentile per-packet one-way delay: 68.750 ms

Loss rate: 16.89%

-- Flow 1:

Average throughput: 49.23 Mbit/s

95th percentile per-packet one-way delay: 66.251 ms

Loss rate: 13.15%

-- Flow 2:

Average throughput: 38.22 Mbit/s

95th percentile per-packet one-way delay: 69.814 ms

Loss rate: 22.28%

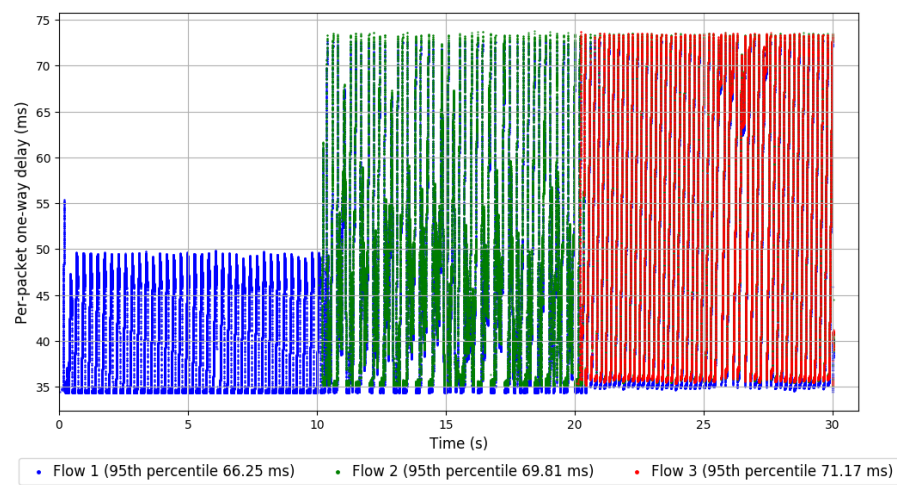
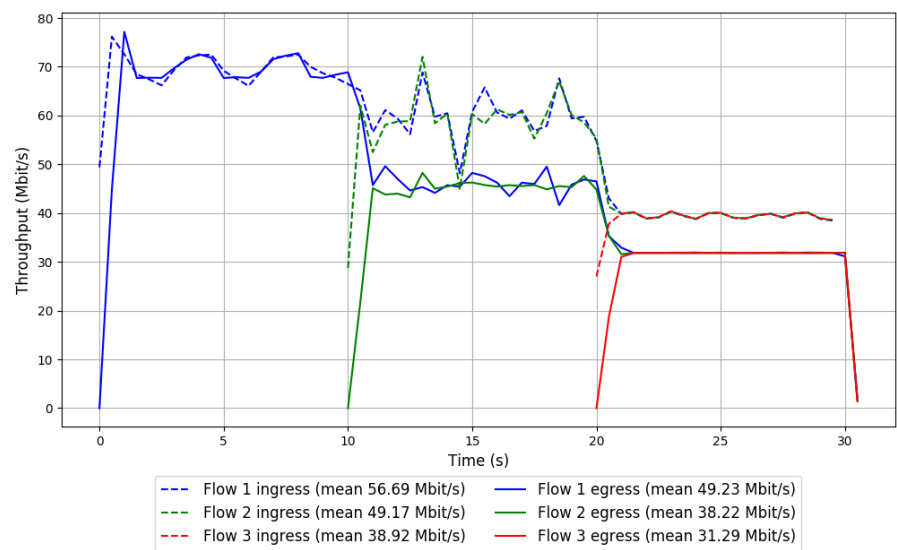
-- Flow 3:

Average throughput: 31.29 Mbit/s

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

Loss rate: 19.58%

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



Run 1: Statistics of TCP Vegas

Start at: 2018-08-01 07:49:14

End at: 2018-08-01 07:49:44

Local clock offset: 0.746 ms

Remote clock offset: 1.775 ms

# Below is generated by plot.py at 2018-08-01 11:56:09

# Datalink statistics

-- Total of 3 flows:

Average throughput: 96.26 Mbit/s

95th percentile per-packet one-way delay: 44.809 ms

Loss rate: 0.27%

-- Flow 1:

Average throughput: 77.75 Mbit/s

95th percentile per-packet one-way delay: 44.834 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 18.58 Mbit/s

95th percentile per-packet one-way delay: 44.193 ms

Loss rate: 0.00%

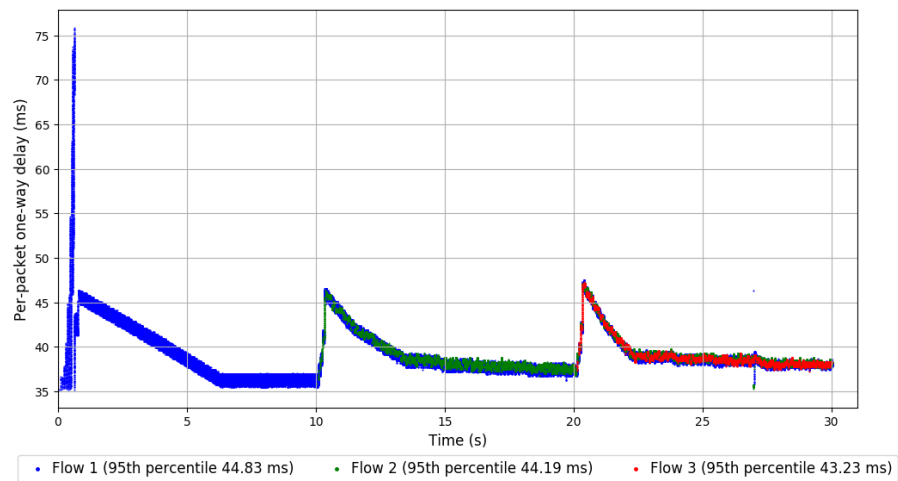
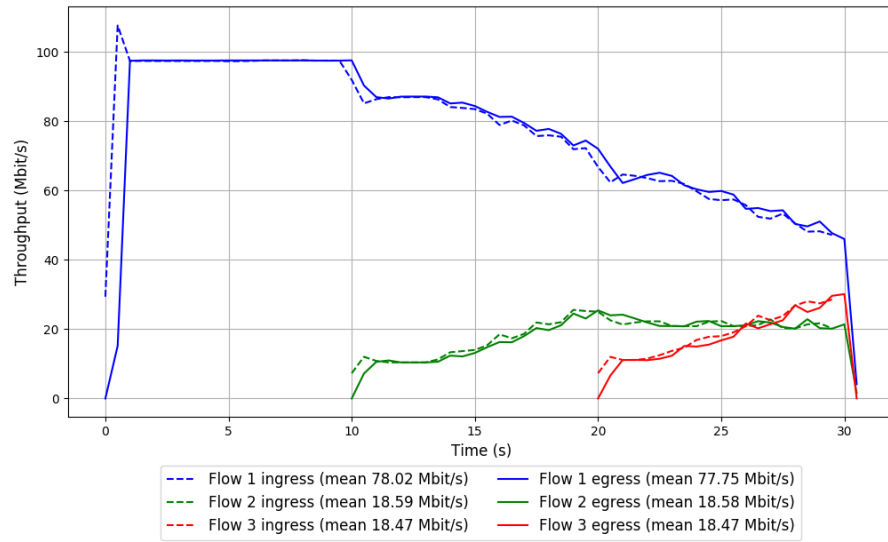
-- Flow 3:

Average throughput: 18.47 Mbit/s

95th percentile per-packet one-way delay: 43.226 ms

Loss rate: 0.00%

# Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-08-01 08:12:05

End at: 2018-08-01 08:12:35

Local clock offset: 0.452 ms

Remote clock offset: 3.825 ms

# Below is generated by plot.py at 2018-08-01 11:56:09

# Datalink statistics

-- Total of 3 flows:

Average throughput: 96.26 Mbit/s

95th percentile per-packet one-way delay: 44.460 ms

Loss rate: 0.27%

-- Flow 1:

Average throughput: 78.01 Mbit/s

95th percentile per-packet one-way delay: 44.499 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 18.39 Mbit/s

95th percentile per-packet one-way delay: 43.737 ms

Loss rate: 0.00%

-- Flow 3:

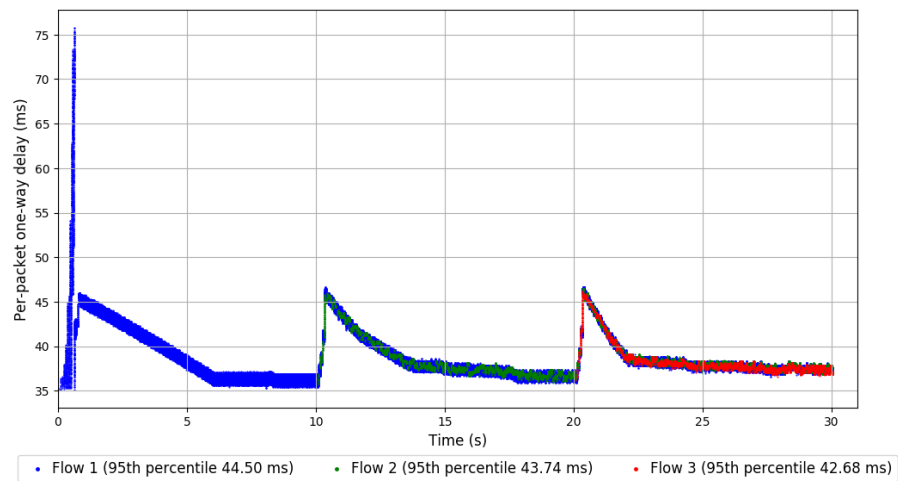
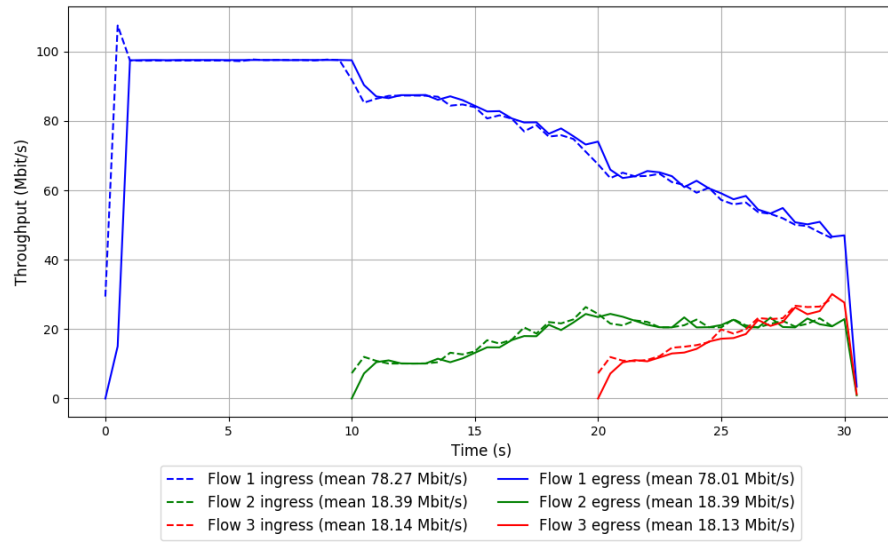
Average throughput: 18.13 Mbit/s

95th percentile per-packet one-way delay: 42.678 ms

Loss rate: 0.00%



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



Run 3: Statistics of TCP Vegas

Start at: 2018-08-01 08:34:59

End at: 2018-08-01 08:35:29

Local clock offset: 0.355 ms

Remote clock offset: 3.703 ms

# Below is generated by plot.py at 2018-08-01 11:56:09

# Datalink statistics

-- Total of 3 flows:

Average throughput: 96.26 Mbit/s

95th percentile per-packet one-way delay: 45.252 ms

Loss rate: 0.27%

-- Flow 1:

Average throughput: 77.42 Mbit/s

95th percentile per-packet one-way delay: 45.440 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 19.00 Mbit/s

95th percentile per-packet one-way delay: 44.543 ms

Loss rate: 0.00%

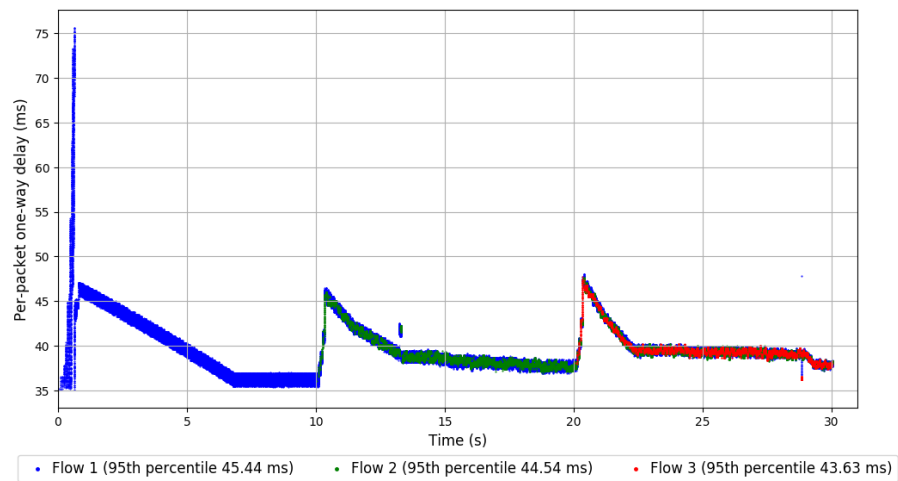
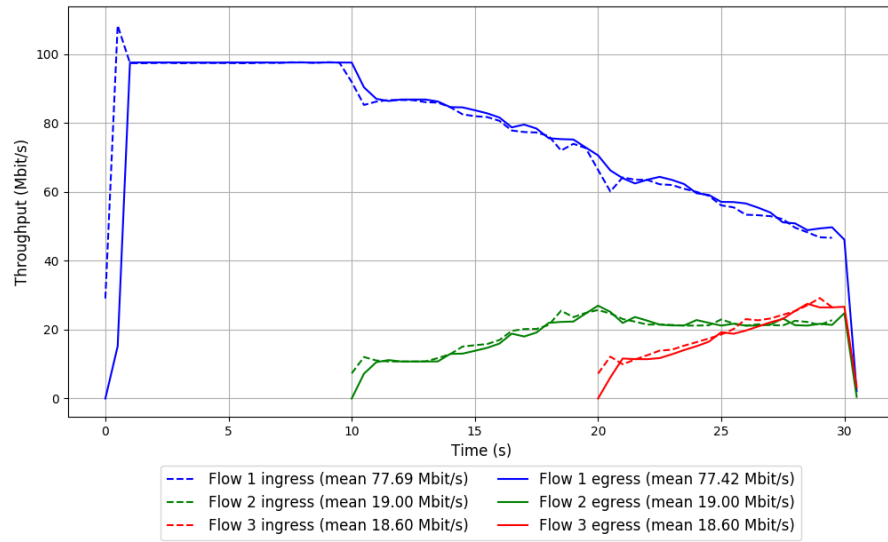
-- Flow 3:

Average throughput: 18.60 Mbit/s

95th percentile per-packet one-way delay: 43.629 ms

Loss rate: 0.00%

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



Run 4: Statistics of TCP Vegas

Start at: 2018-08-01 08:57:56

End at: 2018-08-01 08:58:26

Local clock offset: -1.242 ms

Remote clock offset: 1.767 ms

# Below is generated by plot.py at 2018-08-01 11:56:09

# Datalink statistics

-- Total of 3 flows:

Average throughput: 96.18 Mbit/s

95th percentile per-packet one-way delay: 45.042 ms

Loss rate: 0.27%

-- Flow 1:

Average throughput: 78.02 Mbit/s

95th percentile per-packet one-way delay: 45.241 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 18.46 Mbit/s

95th percentile per-packet one-way delay: 43.672 ms

Loss rate: 0.00%

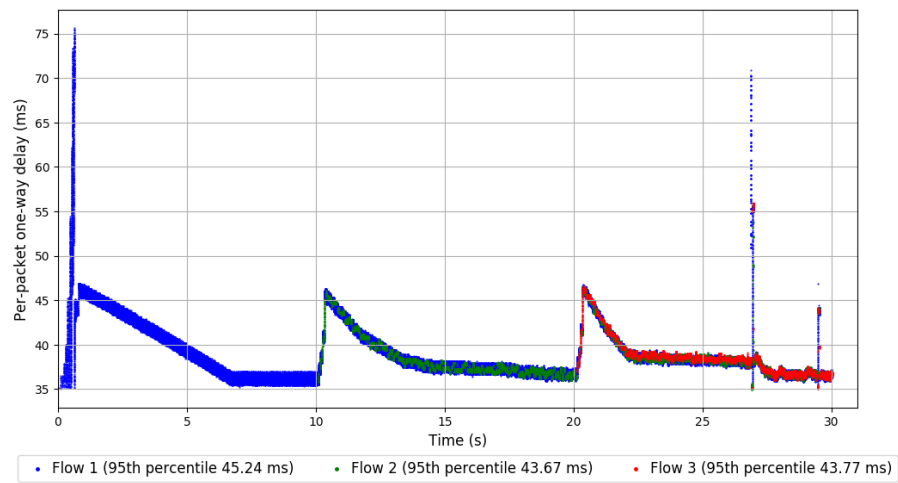
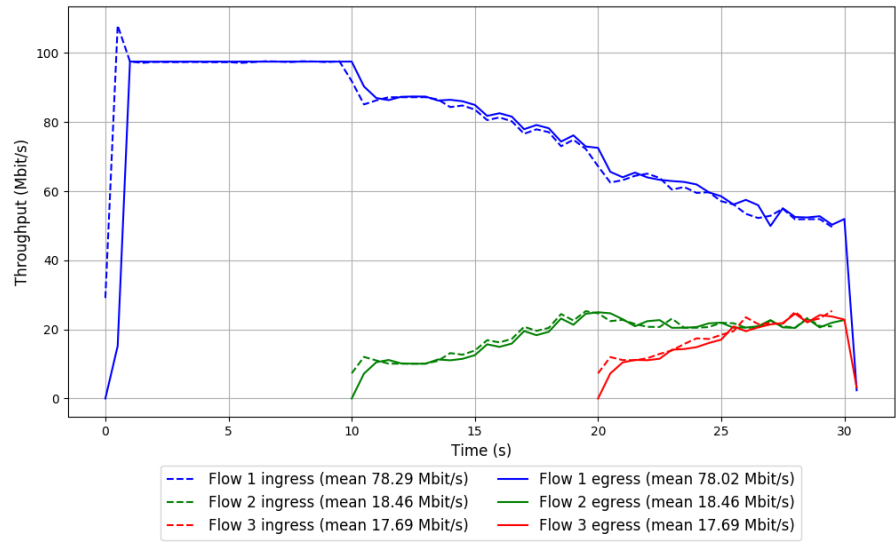
-- Flow 3:

Average throughput: 17.69 Mbit/s

95th percentile per-packet one-way delay: 43.765 ms

Loss rate: 0.00%

# Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-08-01 09:20:48

End at: 2018-08-01 09:21:18

Local clock offset: -3.787 ms

Remote clock offset: 2.114 ms

# Below is generated by plot.py at 2018-08-01 11:56:09

# Datalink statistics

-- Total of 3 flows:

Average throughput: 81.99 Mbit/s

95th percentile per-packet one-way delay: 60.381 ms

Loss rate: 0.52%

-- Flow 1:

Average throughput: 36.67 Mbit/s

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

Loss rate: 1.03%

-- Flow 2:

Average throughput: 47.95 Mbit/s

95th percentile per-packet one-way delay: 60.392 ms

Loss rate: 0.15%

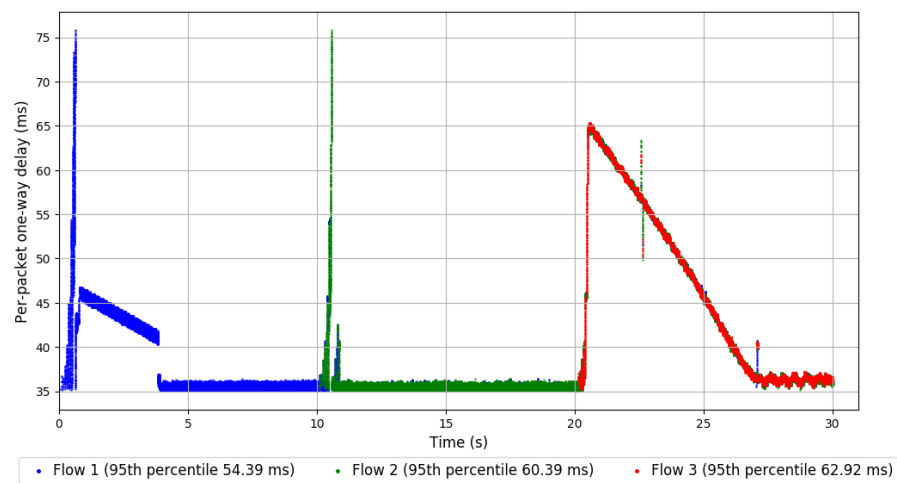
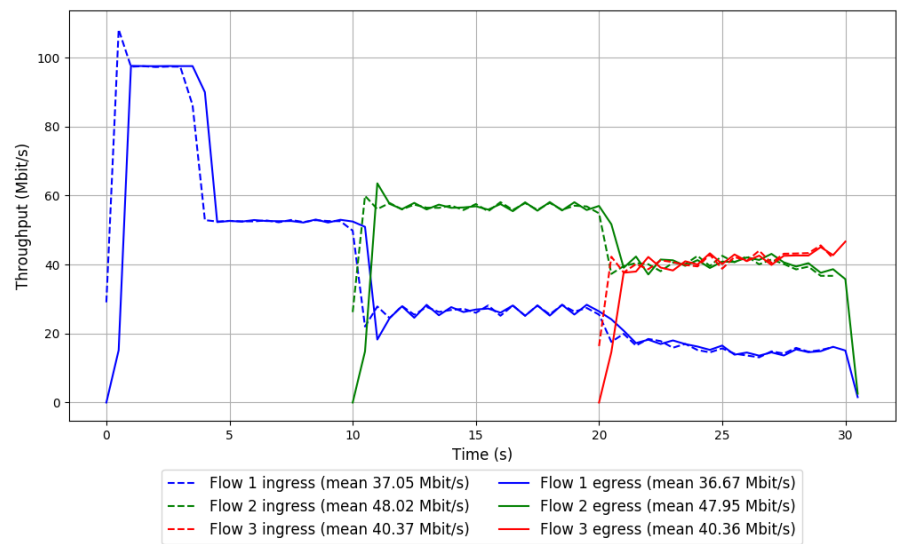
-- Flow 3:

Average throughput: 40.36 Mbit/s

95th percentile per-packet one-way delay: 62.922 ms

Loss rate: 0.00%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-08-01 09:43:44

End at: 2018-08-01 09:44:14

Local clock offset: -3.26 ms

Remote clock offset: 2.094 ms

# Below is generated by plot.py at 2018-08-01 11:56:09

# Datalink statistics

-- Total of 3 flows:

Average throughput: 96.25 Mbit/s

95th percentile per-packet one-way delay: 45.182 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 77.83 Mbit/s

95th percentile per-packet one-way delay: 45.387 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 18.09 Mbit/s

95th percentile per-packet one-way delay: 43.960 ms

Loss rate: 0.00%

-- Flow 3:

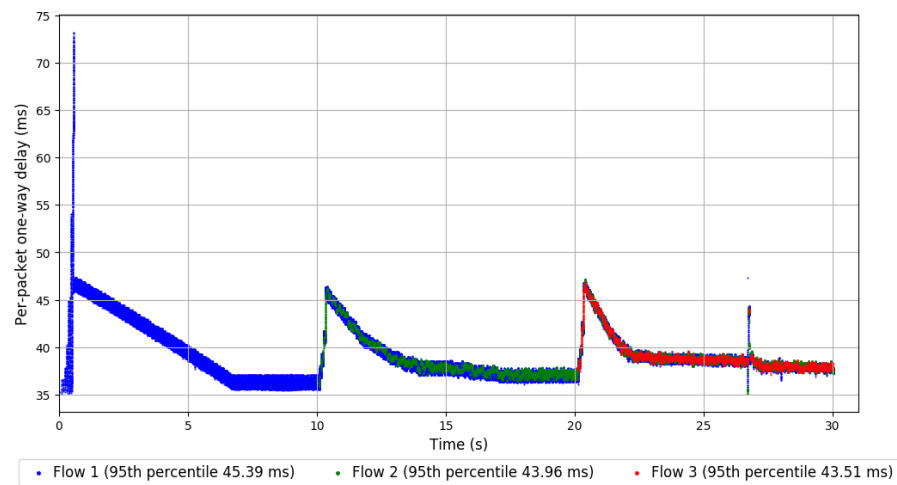
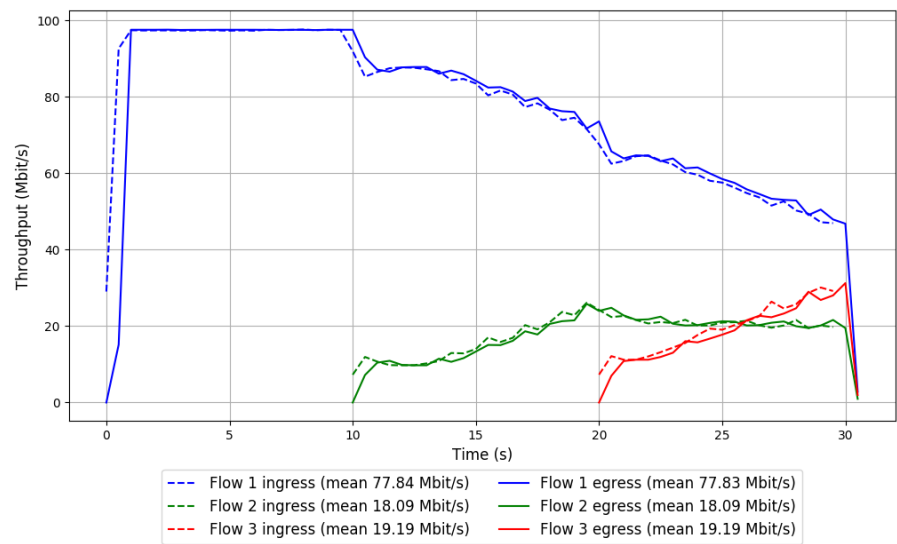
Average throughput: 19.19 Mbit/s

95th percentile per-packet one-way delay: 43.506 ms

Loss rate: 0.00%



Run 6: Report of TCP Vegas — Data Link

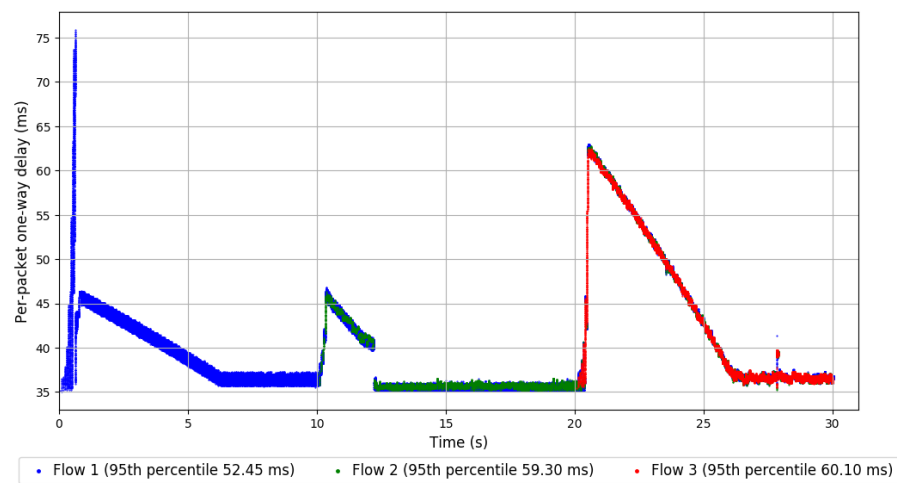
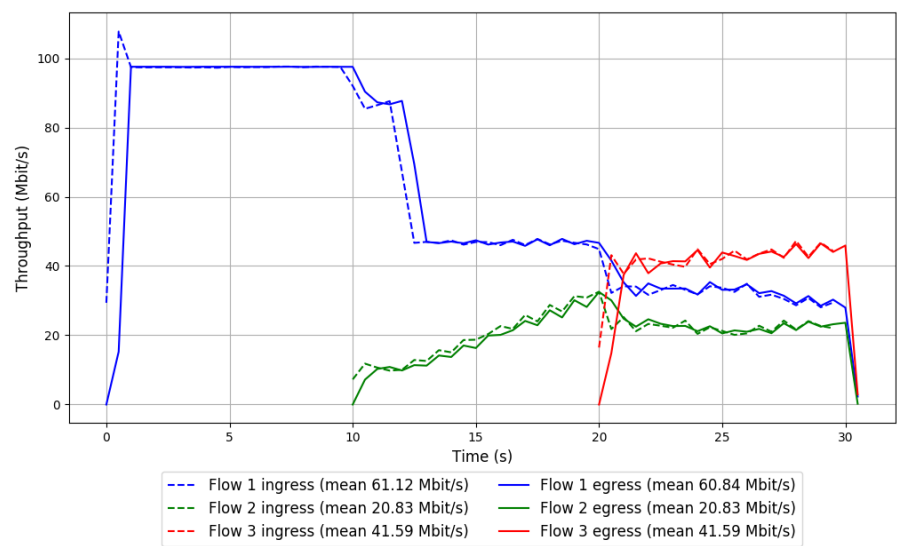


Run 7: Statistics of TCP Vegas

Start at: 2018-08-01 10:06:49  
End at: 2018-08-01 10:07:19  
Local clock offset: -0.181 ms  
Remote clock offset: 1.883 ms

# Below is generated by plot.py at 2018-08-01 11:56:19  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 88.52 Mbit/s  
95th percentile per-packet one-way delay: 57.331 ms  
Loss rate: 0.31%  
-- Flow 1:  
Average throughput: 60.84 Mbit/s  
95th percentile per-packet one-way delay: 52.452 ms  
Loss rate: 0.45%  
-- Flow 2:  
Average throughput: 20.83 Mbit/s  
95th percentile per-packet one-way delay: 59.303 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 41.59 Mbit/s  
95th percentile per-packet one-way delay: 60.101 ms  
Loss rate: 0.00%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-08-01 10:29:47

End at: 2018-08-01 10:30:17

Local clock offset: 0.568 ms

Remote clock offset: 1.773 ms

# Below is generated by plot.py at 2018-08-01 11:56:27

# Datalink statistics

-- Total of 3 flows:

Average throughput: 96.25 Mbit/s

95th percentile per-packet one-way delay: 44.483 ms

Loss rate: 0.27%

-- Flow 1:

Average throughput: 77.60 Mbit/s

95th percentile per-packet one-way delay: 44.512 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 18.69 Mbit/s

95th percentile per-packet one-way delay: 43.720 ms

Loss rate: 0.00%

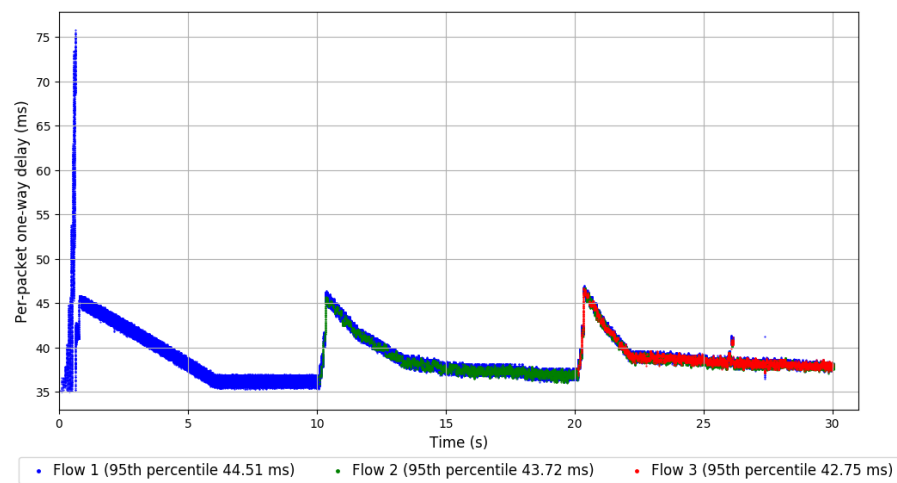
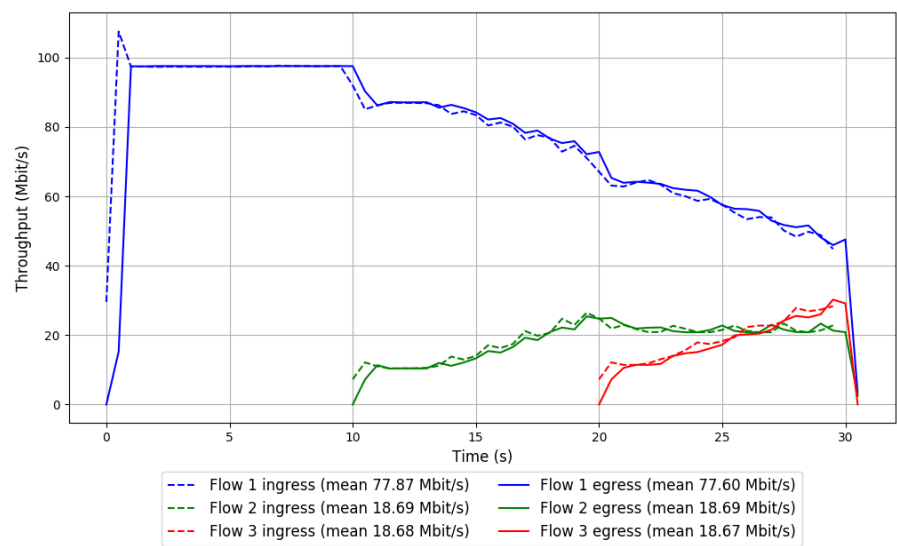
-- Flow 3:

Average throughput: 18.67 Mbit/s

95th percentile per-packet one-way delay: 42.749 ms

Loss rate: 0.00%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-08-01 10:52:42

End at: 2018-08-01 10:53:12

Local clock offset: 0.666 ms

Remote clock offset: 1.624 ms

# Below is generated by plot.py at 2018-08-01 11:56:27

# Datalink statistics

-- Total of 3 flows:

Average throughput: 92.24 Mbit/s

95th percentile per-packet one-way delay: 44.369 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 68.61 Mbit/s

95th percentile per-packet one-way delay: 44.614 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 25.61 Mbit/s

95th percentile per-packet one-way delay: 41.935 ms

Loss rate: 0.00%

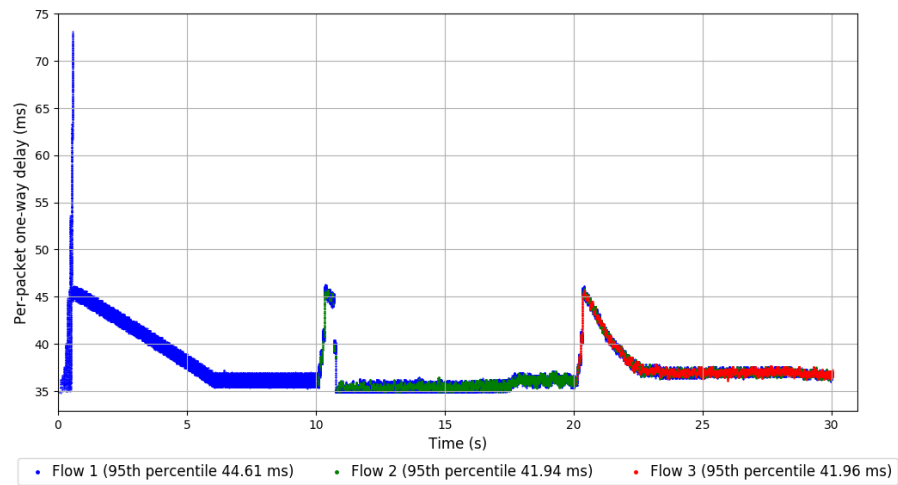
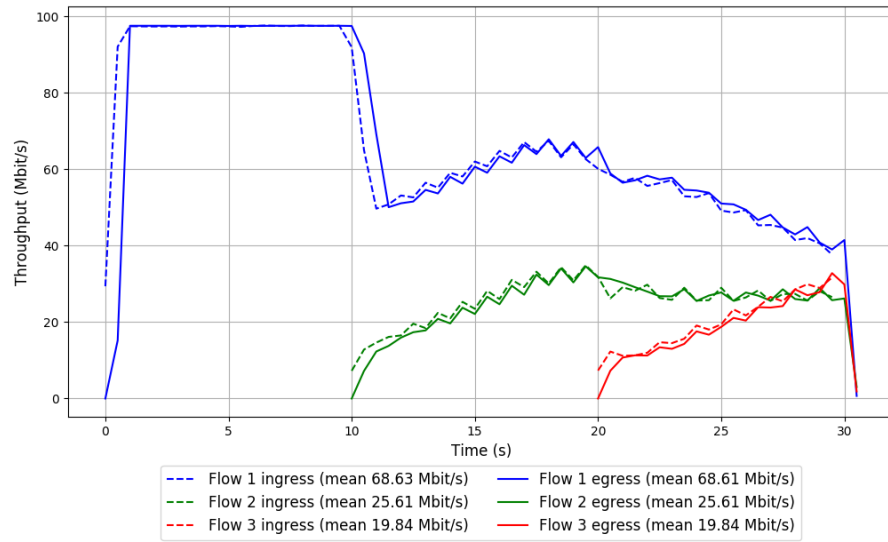
-- Flow 3:

Average throughput: 19.84 Mbit/s

95th percentile per-packet one-way delay: 41.962 ms

Loss rate: 0.00%

# Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-08-01 11:15:34

End at: 2018-08-01 11:16:04

Local clock offset: -3.215 ms

Remote clock offset: 1.939 ms

# Below is generated by plot.py at 2018-08-01 11:56:28

# Datalink statistics

-- Total of 3 flows:

Average throughput: 91.61 Mbit/s

95th percentile per-packet one-way delay: 45.585 ms

Loss rate: 0.29%

-- Flow 1:

Average throughput: 72.73 Mbit/s

95th percentile per-packet one-way delay: 45.792 ms

Loss rate: 0.36%

-- Flow 2:

Average throughput: 18.26 Mbit/s

95th percentile per-packet one-way delay: 44.519 ms

Loss rate: 0.04%

-- Flow 3:

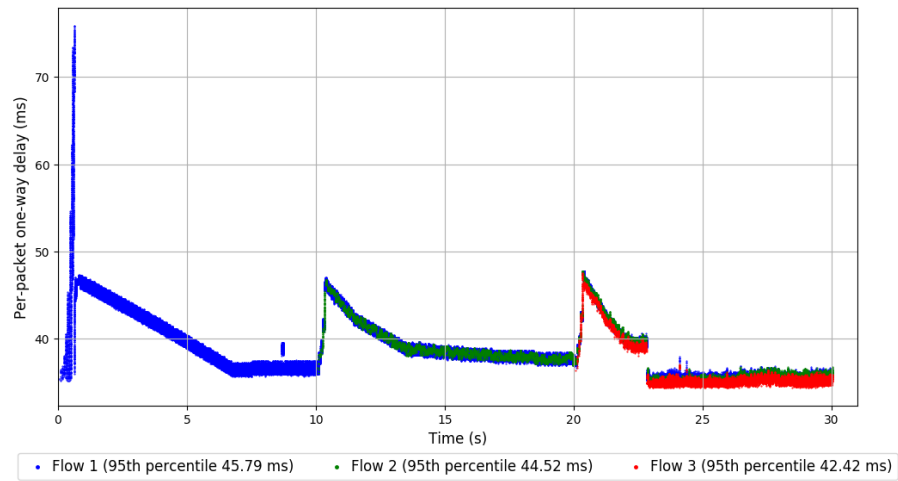
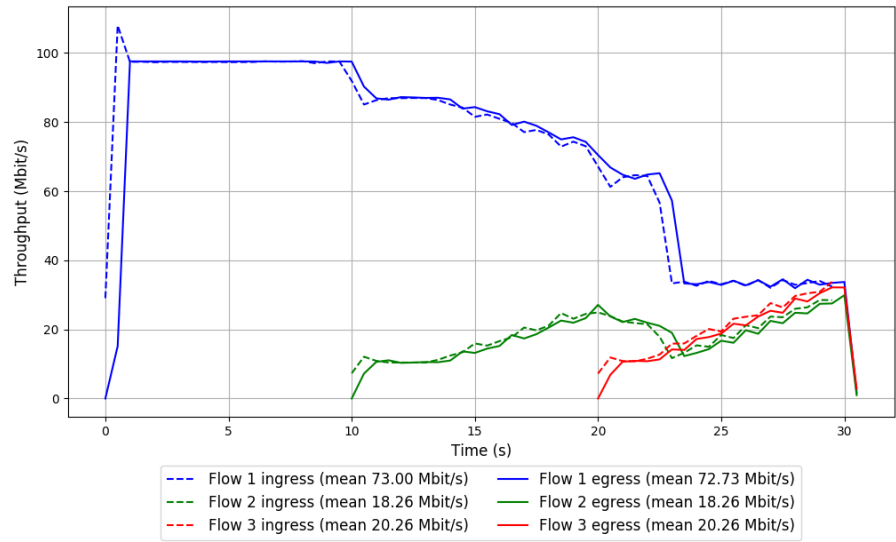
Average throughput: 20.26 Mbit/s

95th percentile per-packet one-way delay: 42.423 ms

Loss rate: 0.00%



# Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-08-01 08:04:01

End at: 2018-08-01 08:04:31

Local clock offset: 0.482 ms

Remote clock offset: 3.093 ms

# Below is generated by plot.py at 2018-08-01 11:56:28

# Datalink statistics

-- Total of 3 flows:

Average throughput: 61.58 Mbit/s

95th percentile per-packet one-way delay: 70.545 ms

Loss rate: 26.44%

-- Flow 1:

Average throughput: 48.57 Mbit/s

95th percentile per-packet one-way delay: 70.503 ms

Loss rate: 26.59%

-- Flow 2:

Average throughput: 14.20 Mbit/s

95th percentile per-packet one-way delay: 71.104 ms

Loss rate: 25.60%

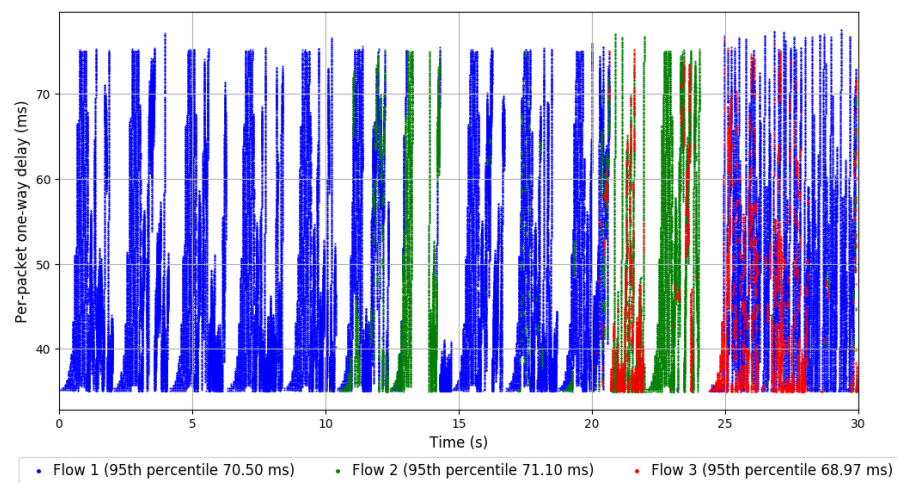
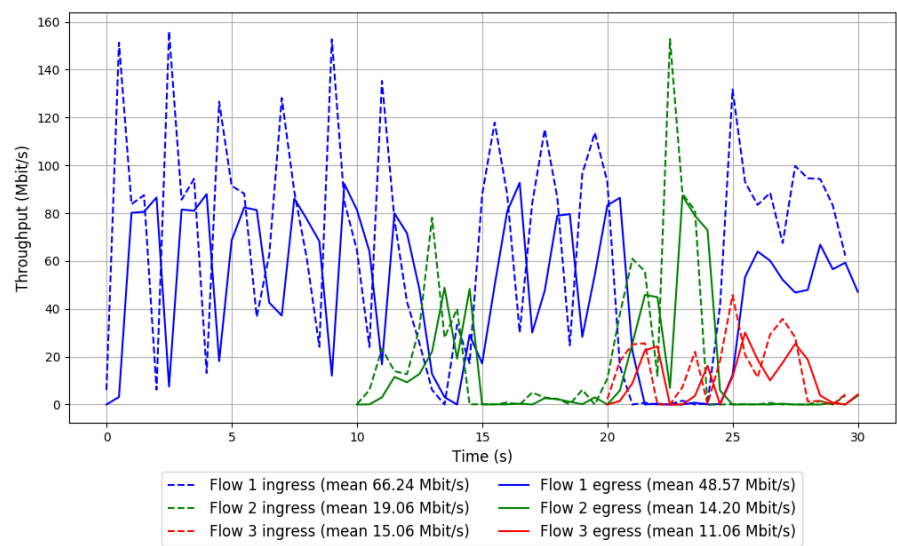
-- Flow 3:

Average throughput: 11.06 Mbit/s

95th percentile per-packet one-way delay: 68.968 ms

Loss rate: 26.58%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-08-01 08:26:52

End at: 2018-08-01 08:27:22

Local clock offset: 0.447 ms

Remote clock offset: 4.85 ms

# Below is generated by plot.py at 2018-08-01 11:56:30

# Datalink statistics

-- Total of 3 flows:

Average throughput: 68.12 Mbit/s

95th percentile per-packet one-way delay: 70.146 ms

Loss rate: 24.04%

-- Flow 1:

Average throughput: 39.28 Mbit/s

95th percentile per-packet one-way delay: 70.298 ms

Loss rate: 22.51%

-- Flow 2:

Average throughput: 32.65 Mbit/s

95th percentile per-packet one-way delay: 70.231 ms

Loss rate: 25.34%

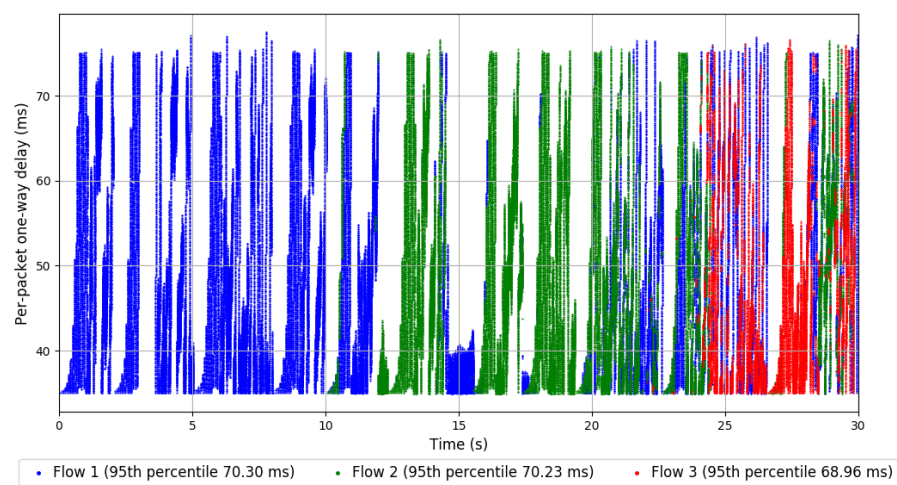
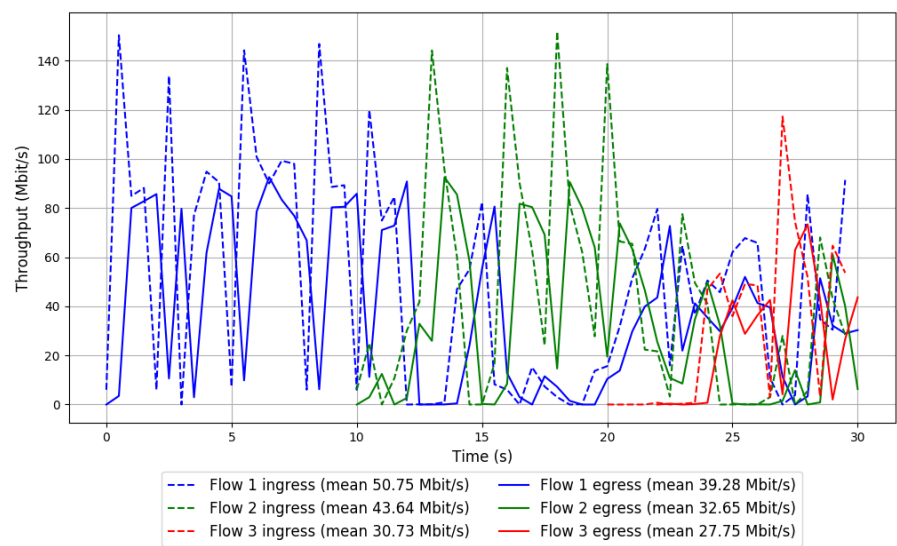
-- Flow 3:

Average throughput: 27.75 Mbit/s

95th percentile per-packet one-way delay: 68.957 ms

Loss rate: 27.94%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-08-01 08:49:46

End at: 2018-08-01 08:50:16

Local clock offset: 0.269 ms

Remote clock offset: 2.046 ms

# Below is generated by plot.py at 2018-08-01 11:57:21

# Datalink statistics

-- Total of 3 flows:

Average throughput: 69.15 Mbit/s

95th percentile per-packet one-way delay: 72.970 ms

Loss rate: 58.27%

-- Flow 1:

Average throughput: 43.44 Mbit/s

95th percentile per-packet one-way delay: 70.799 ms

Loss rate: 28.42%

-- Flow 2:

Average throughput: 21.80 Mbit/s

95th percentile per-packet one-way delay: 71.422 ms

Loss rate: 29.08%

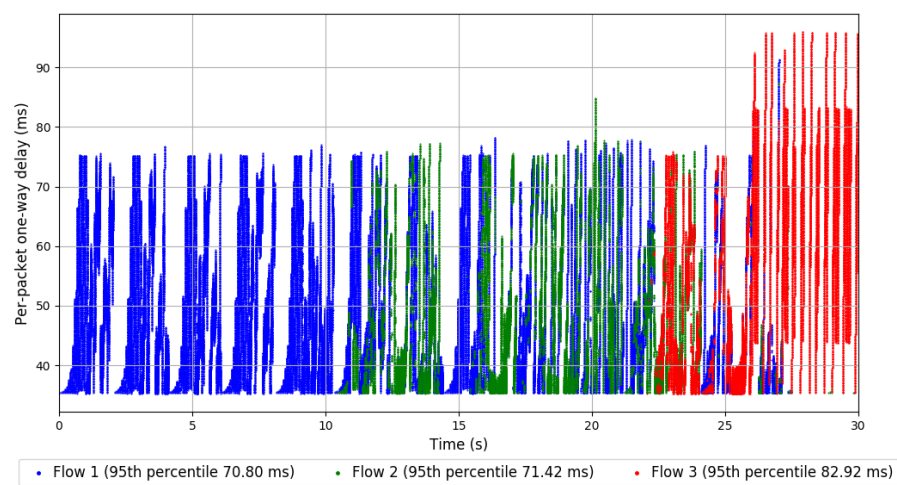
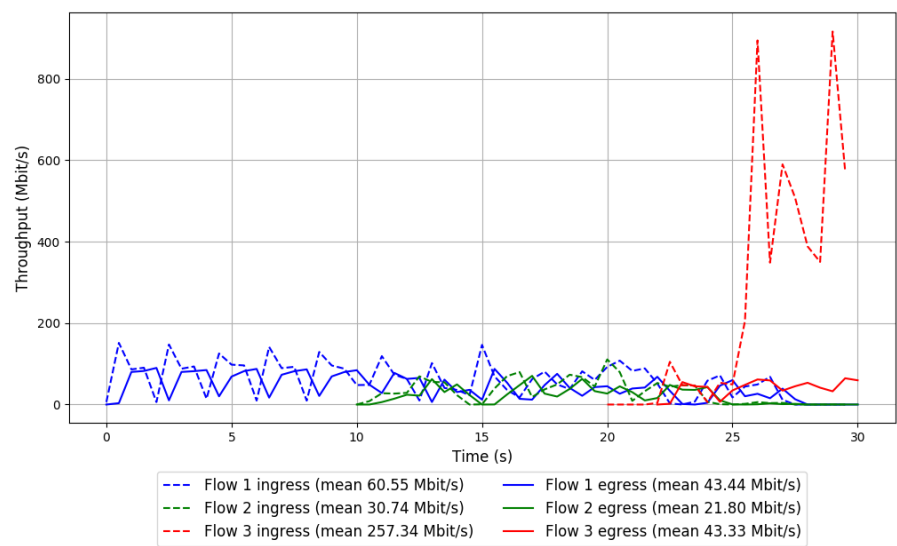
-- Flow 3:

Average throughput: 43.33 Mbit/s

95th percentile per-packet one-way delay: 82.923 ms

Loss rate: 86.51%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-08-01 09:12:42

End at: 2018-08-01 09:13:12

Local clock offset: -3.187 ms

Remote clock offset: 2.038 ms

# Below is generated by plot.py at 2018-08-01 11:57:21

# Datalink statistics

-- Total of 3 flows:

Average throughput: 60.01 Mbit/s

95th percentile per-packet one-way delay: 70.938 ms

Loss rate: 35.02%

-- Flow 1:

Average throughput: 35.62 Mbit/s

95th percentile per-packet one-way delay: 71.144 ms

Loss rate: 38.44%

-- Flow 2:

Average throughput: 29.20 Mbit/s

95th percentile per-packet one-way delay: 70.411 ms

Loss rate: 24.58%

-- Flow 3:

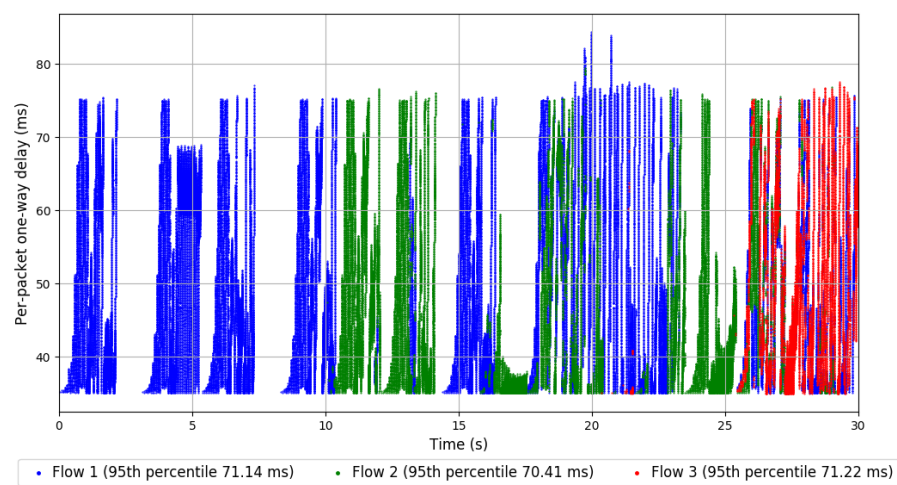
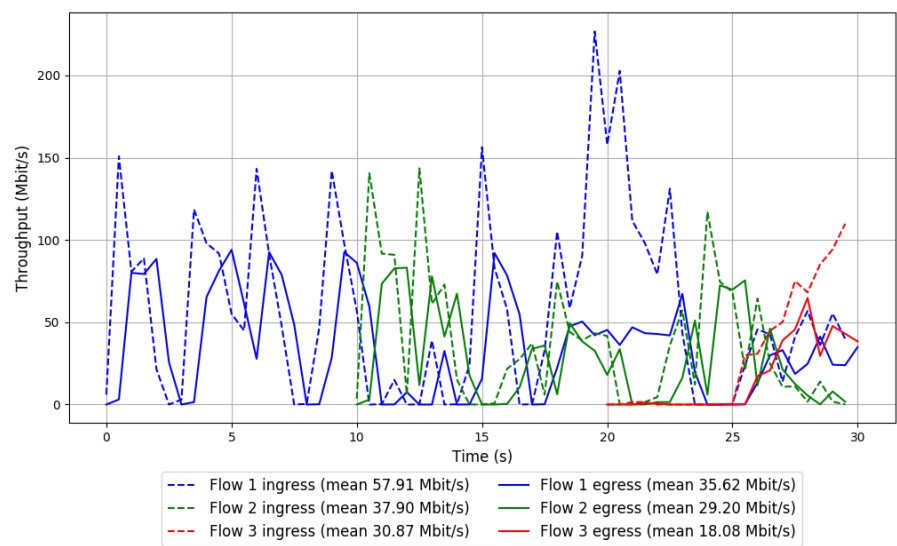
Average throughput: 18.08 Mbit/s

95th percentile per-packet one-way delay: 71.223 ms

Loss rate: 41.24%



Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-08-01 09:35:35

End at: 2018-08-01 09:36:05

Local clock offset: -3.24 ms

Remote clock offset: 2.079 ms

# Below is generated by plot.py at 2018-08-01 11:57:21

# Datalink statistics

-- Total of 3 flows:

Average throughput: 59.88 Mbit/s

95th percentile per-packet one-way delay: 71.372 ms

Loss rate: 37.01%

-- Flow 1:

Average throughput: 28.51 Mbit/s

95th percentile per-packet one-way delay: 70.989 ms

Loss rate: 30.50%

-- Flow 2:

Average throughput: 41.63 Mbit/s

95th percentile per-packet one-way delay: 72.031 ms

Loss rate: 43.90%

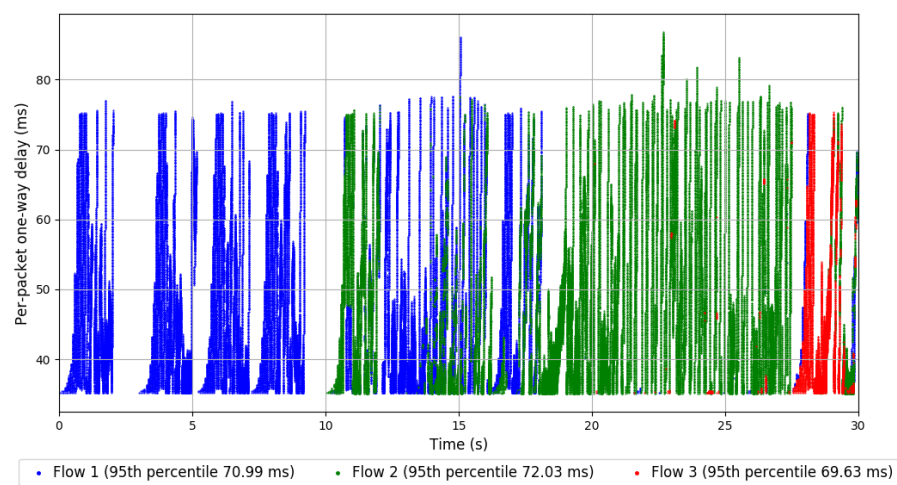
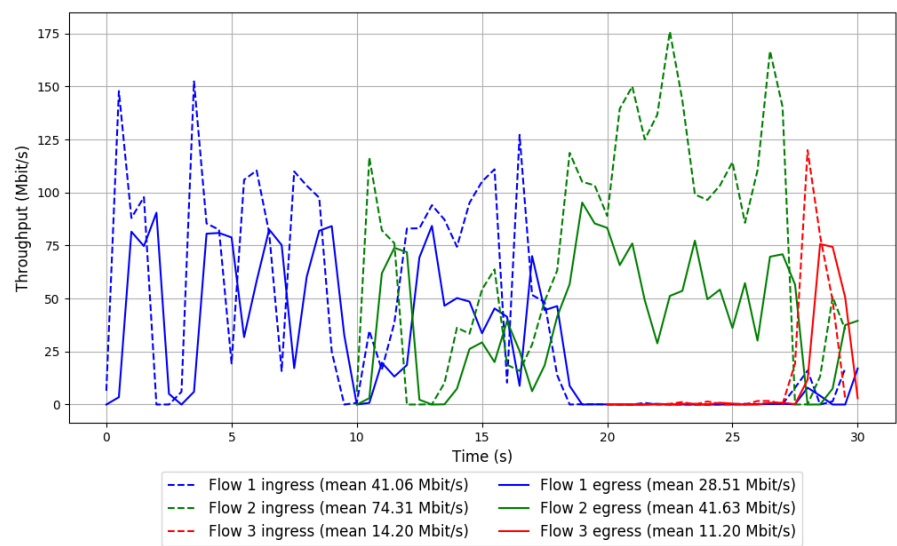
-- Flow 3:

Average throughput: 11.20 Mbit/s

95th percentile per-packet one-way delay: 69.634 ms

Loss rate: 21.16%

Run 5: Report of Verus — Data Link

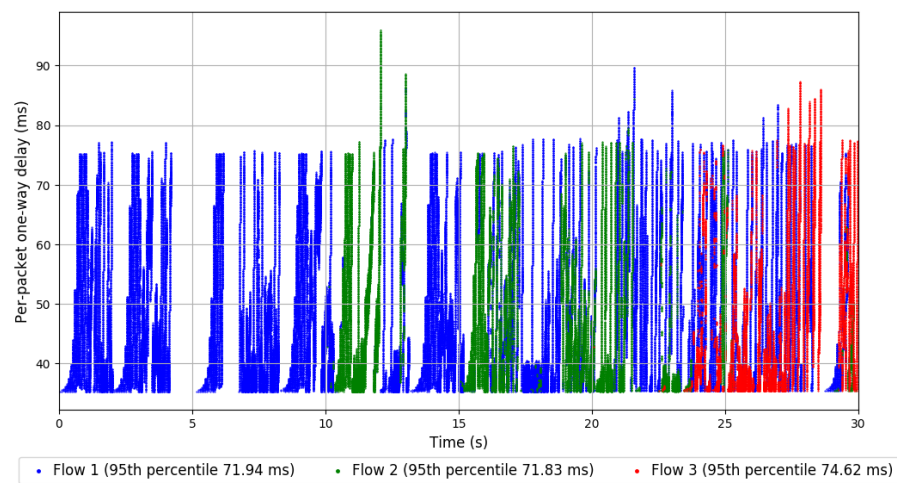
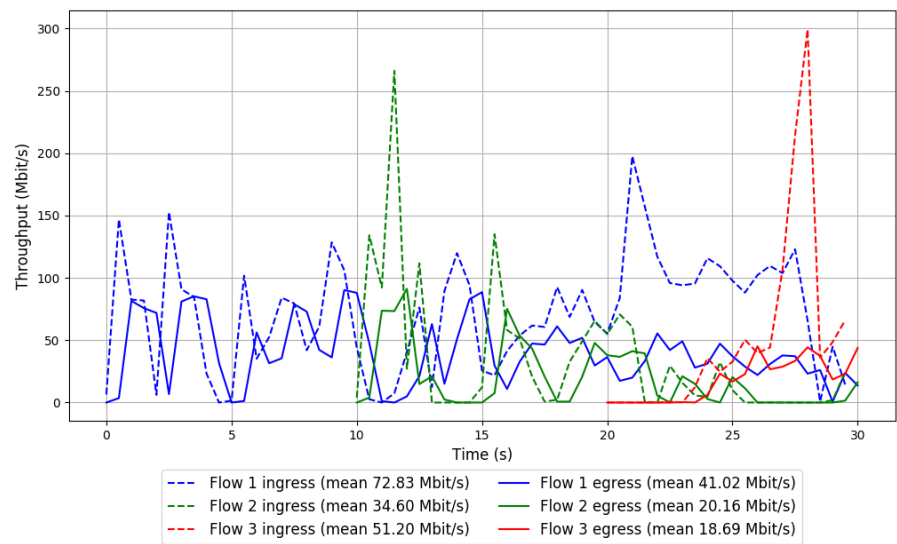


Run 6: Statistics of Verus

Start at: 2018-08-01 09:58:41  
End at: 2018-08-01 09:59:11  
Local clock offset: -1.485 ms  
Remote clock offset: 1.867 ms

# Below is generated by plot.py at 2018-08-01 11:57:21  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 60.08 Mbit/s  
95th percentile per-packet one-way delay: 72.195 ms  
Loss rate: 46.25%  
-- Flow 1:  
Average throughput: 41.02 Mbit/s  
95th percentile per-packet one-way delay: 71.937 ms  
Loss rate: 43.66%  
-- Flow 2:  
Average throughput: 20.16 Mbit/s  
95th percentile per-packet one-way delay: 71.830 ms  
Loss rate: 41.77%  
-- Flow 3:  
Average throughput: 18.69 Mbit/s  
95th percentile per-packet one-way delay: 74.619 ms  
Loss rate: 63.38%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-08-01 10:21:39

End at: 2018-08-01 10:22:09

Local clock offset: 0.71 ms

Remote clock offset: 1.934 ms

# Below is generated by plot.py at 2018-08-01 11:57:23

# Datalink statistics

-- Total of 3 flows:

Average throughput: 68.17 Mbit/s

95th percentile per-packet one-way delay: 70.720 ms

Loss rate: 30.29%

-- Flow 1:

Average throughput: 38.08 Mbit/s

95th percentile per-packet one-way delay: 70.473 ms

Loss rate: 26.38%

-- Flow 2:

Average throughput: 30.72 Mbit/s

95th percentile per-packet one-way delay: 70.688 ms

Loss rate: 31.56%

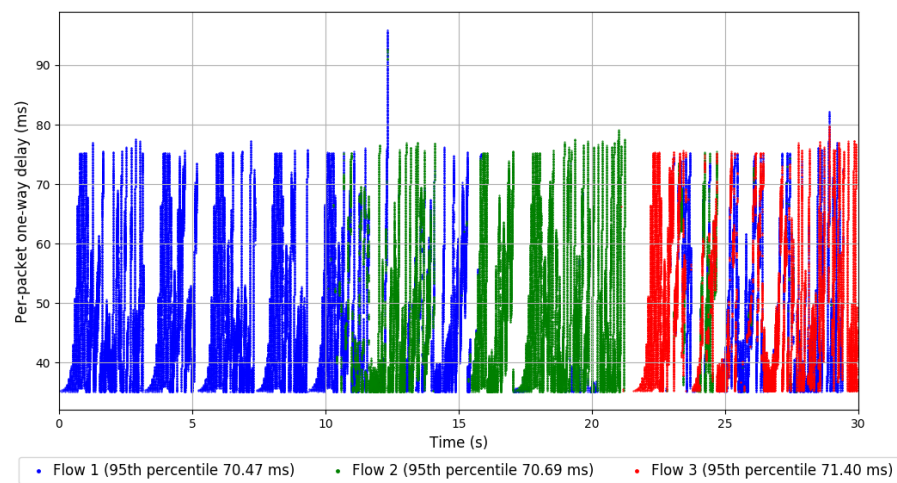
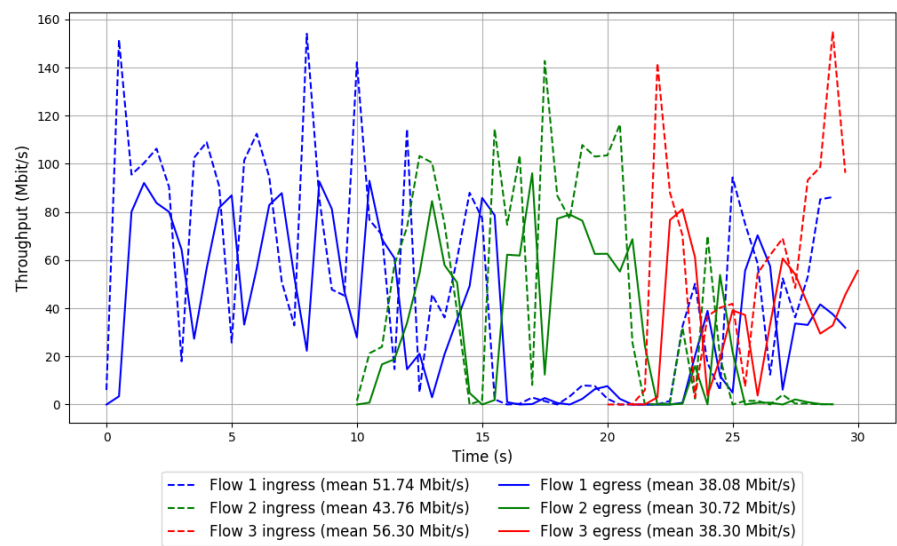
-- Flow 3:

Average throughput: 38.30 Mbit/s

95th percentile per-packet one-way delay: 71.404 ms

Loss rate: 39.05%

Run 7: Report of Verus — Data Link



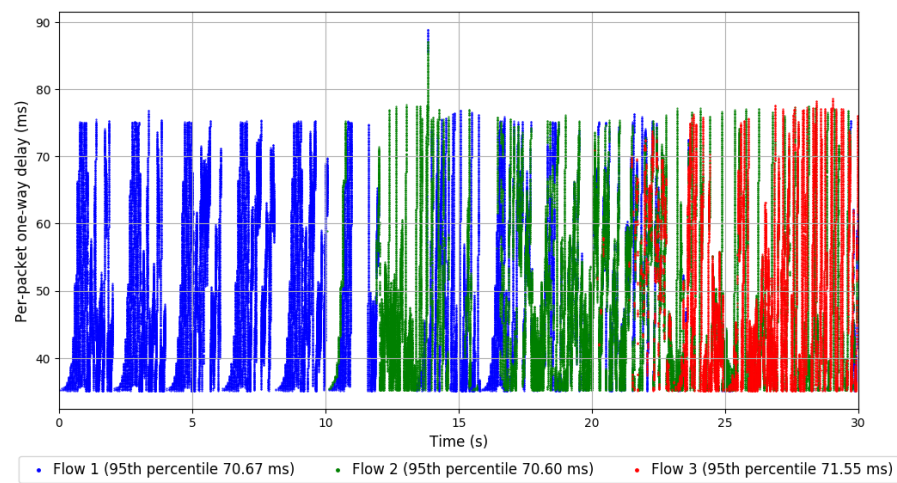
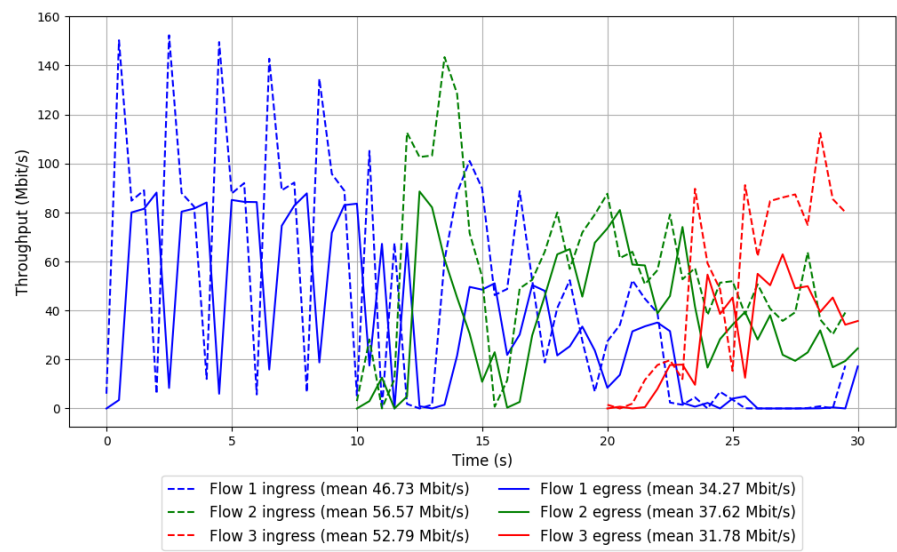
Run 8: Statistics of Verus

Start at: 2018-08-01 10:44:34  
End at: 2018-08-01 10:45:04  
Local clock offset: 0.65 ms  
Remote clock offset: 1.644 ms

# Below is generated by plot.py at 2018-08-01 11:57:25  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 69.71 Mbit/s  
95th percentile per-packet one-way delay: 70.757 ms  
Loss rate: 31.42%  
-- Flow 1:  
Average throughput: 34.27 Mbit/s  
95th percentile per-packet one-way delay: 70.672 ms  
Loss rate: 26.60%  
-- Flow 2:  
Average throughput: 37.62 Mbit/s  
95th percentile per-packet one-way delay: 70.600 ms  
Loss rate: 33.53%  
-- Flow 3:  
Average throughput: 31.78 Mbit/s  
95th percentile per-packet one-way delay: 71.548 ms  
Loss rate: 39.80%



Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-08-01 11:07:27

End at: 2018-08-01 11:07:57

Local clock offset: -2.537 ms

Remote clock offset: 1.799 ms

# Below is generated by plot.py at 2018-08-01 11:57:32

# Datalink statistics

-- Total of 3 flows:

Average throughput: 58.54 Mbit/s

95th percentile per-packet one-way delay: 73.619 ms

Loss rate: 61.26%

-- Flow 1:

Average throughput: 28.06 Mbit/s

95th percentile per-packet one-way delay: 70.715 ms

Loss rate: 23.26%

-- Flow 2:

Average throughput: 38.27 Mbit/s

95th percentile per-packet one-way delay: 76.235 ms

Loss rate: 76.04%

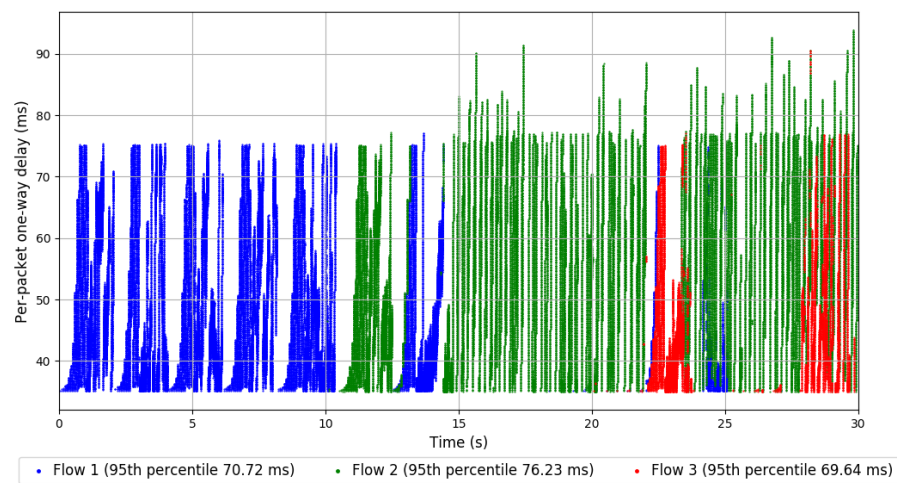
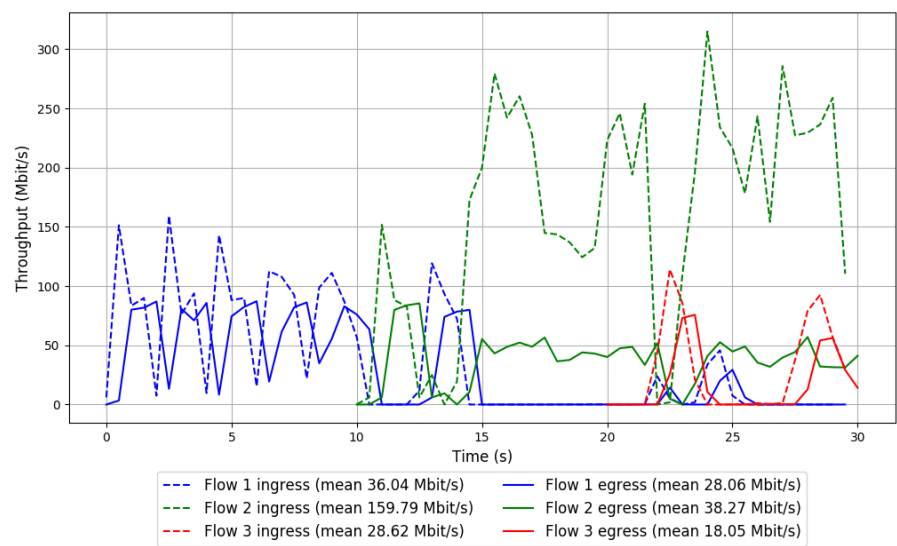
-- Flow 3:

Average throughput: 18.05 Mbit/s

95th percentile per-packet one-way delay: 69.636 ms

Loss rate: 37.45%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-08-01 11:30:25

End at: 2018-08-01 11:30:55

Local clock offset: -3.829 ms

Remote clock offset: 1.633 ms

# Below is generated by plot.py at 2018-08-01 11:57:32

# Datalink statistics

-- Total of 3 flows:

Average throughput: 71.35 Mbit/s

95th percentile per-packet one-way delay: 70.608 ms

Loss rate: 33.23%

-- Flow 1:

Average throughput: 55.27 Mbit/s

95th percentile per-packet one-way delay: 70.219 ms

Loss rate: 20.72%

-- Flow 2:

Average throughput: 19.56 Mbit/s

95th percentile per-packet one-way delay: 72.763 ms

Loss rate: 60.94%

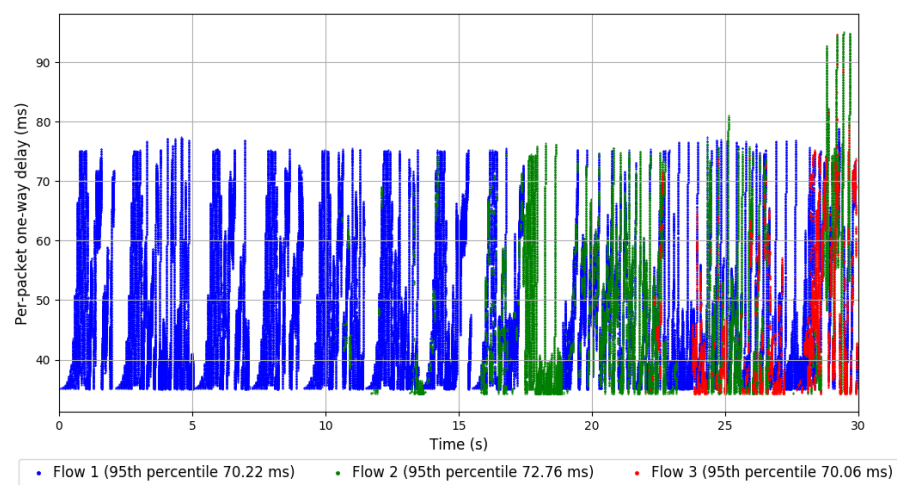
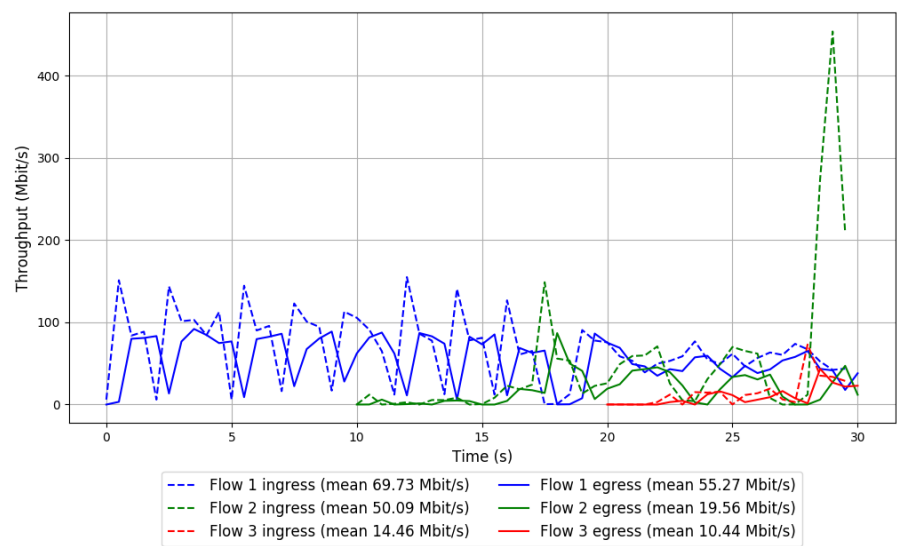
-- Flow 3:

Average throughput: 10.44 Mbit/s

95th percentile per-packet one-way delay: 70.055 ms

Loss rate: 27.87%

Run 10: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2018-08-01 07:42:30

End at: 2018-08-01 07:43:00

Local clock offset: 0.755 ms

Remote clock offset: 1.722 ms

# Below is generated by plot.py at 2018-08-01 11:58:05

# Datalink statistics

-- Total of 3 flows:

Average throughput: 85.90 Mbit/s

95th percentile per-packet one-way delay: 40.802 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 69.73 Mbit/s

95th percentile per-packet one-way delay: 40.434 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 18.45 Mbit/s

95th percentile per-packet one-way delay: 40.871 ms

Loss rate: 0.00%

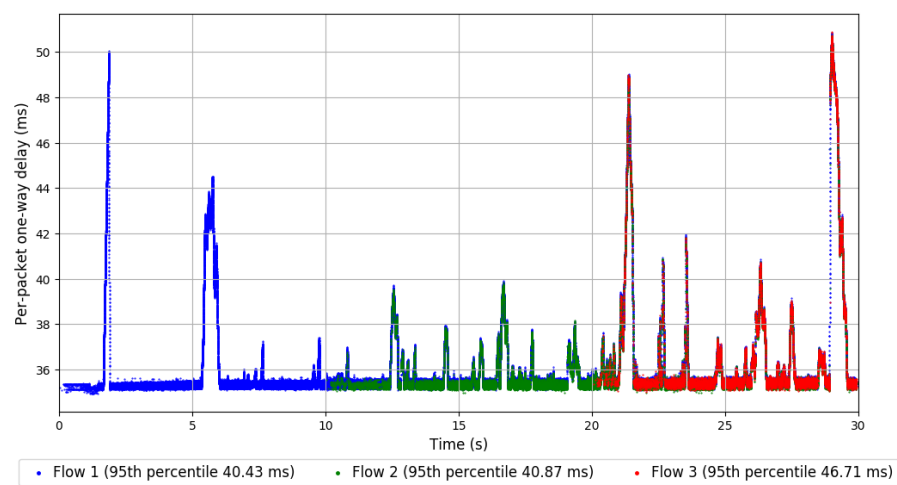
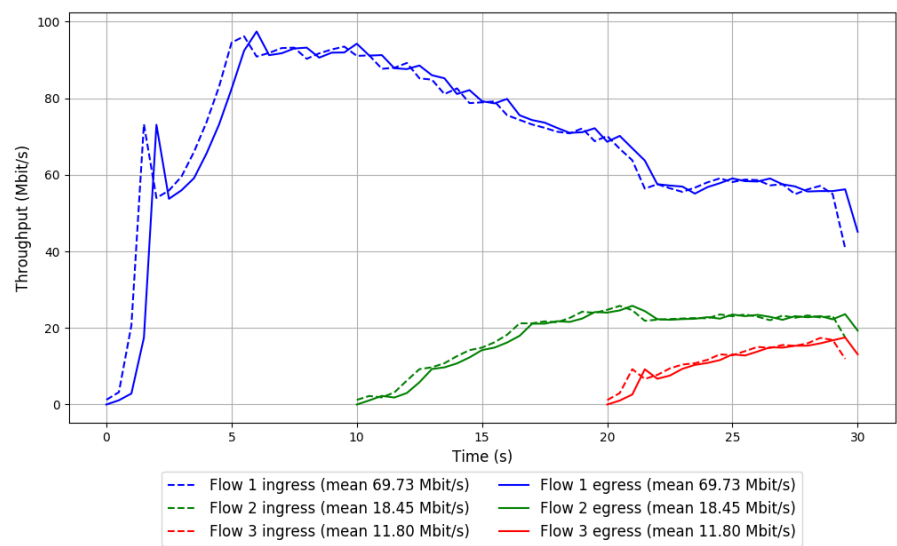
-- Flow 3:

Average throughput: 11.80 Mbit/s

95th percentile per-packet one-way delay: 46.708 ms

Loss rate: 0.00%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2018-08-01 08:05:21

End at: 2018-08-01 08:05:51

Local clock offset: 0.381 ms

Remote clock offset: 3.297 ms

# Below is generated by plot.py at 2018-08-01 11:58:15

# Datalink statistics

-- Total of 3 flows:

Average throughput: 86.11 Mbit/s

95th percentile per-packet one-way delay: 46.673 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 62.98 Mbit/s

95th percentile per-packet one-way delay: 46.237 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 28.16 Mbit/s

95th percentile per-packet one-way delay: 47.281 ms

Loss rate: 0.00%

-- Flow 3:

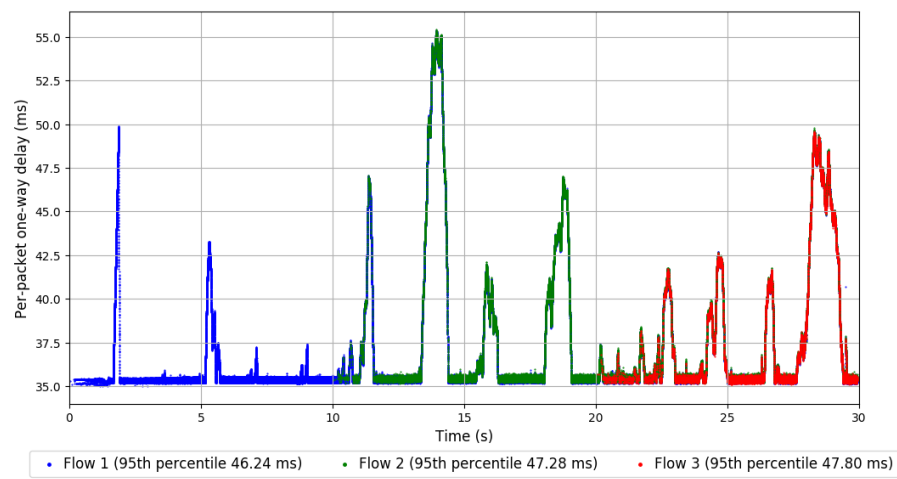
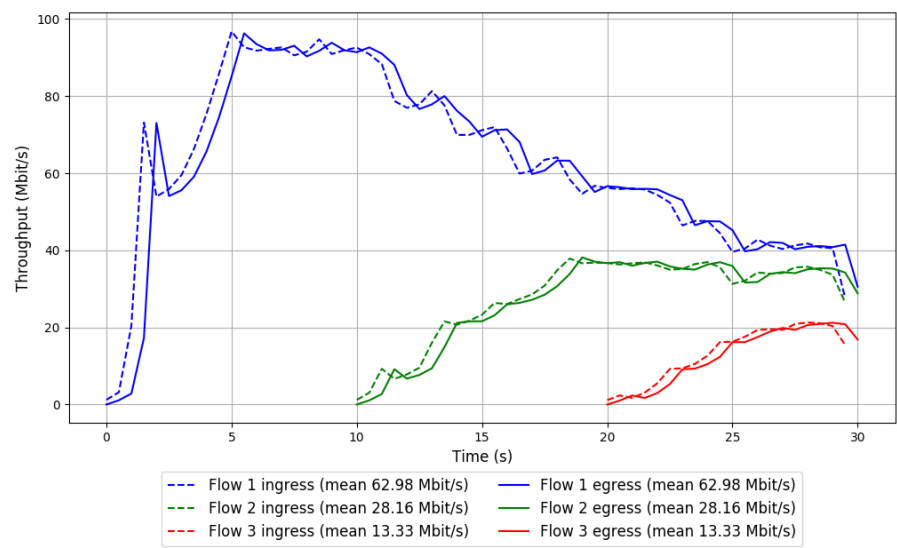
Average throughput: 13.33 Mbit/s

95th percentile per-packet one-way delay: 47.800 ms

Loss rate: 0.00%



Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-08-01 08:28:13

End at: 2018-08-01 08:28:43

Local clock offset: 0.419 ms

Remote clock offset: 4.927 ms

# Below is generated by plot.py at 2018-08-01 11:58:25

# Datalink statistics

-- Total of 3 flows:

Average throughput: 83.95 Mbit/s

95th percentile per-packet one-way delay: 58.232 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 60.51 Mbit/s

95th percentile per-packet one-way delay: 56.404 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 26.98 Mbit/s

95th percentile per-packet one-way delay: 61.241 ms

Loss rate: 0.00%

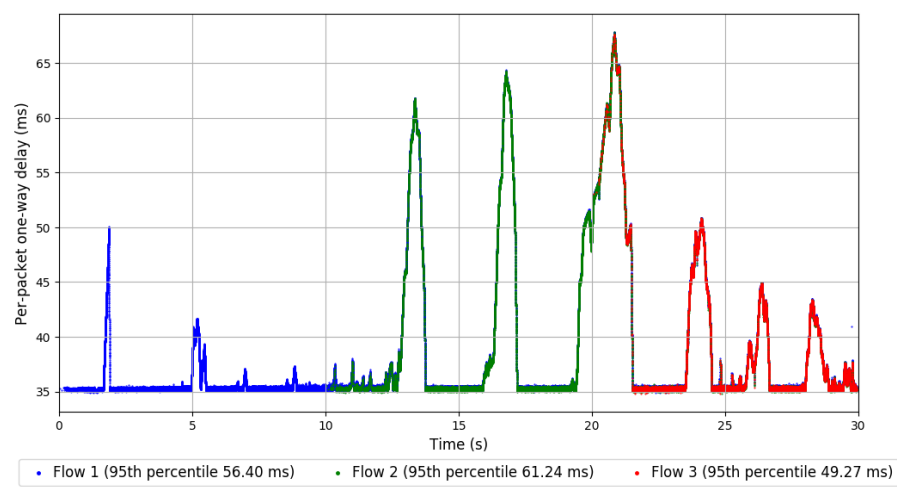
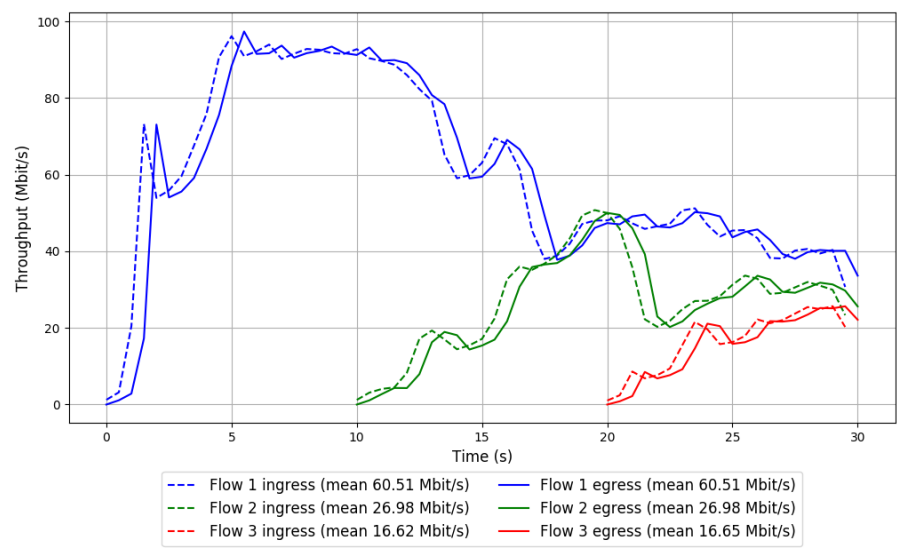
-- Flow 3:

Average throughput: 16.65 Mbit/s

95th percentile per-packet one-way delay: 49.268 ms

Loss rate: 0.00%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2018-08-01 08:51:08

End at: 2018-08-01 08:51:38

Local clock offset: 0.27 ms

Remote clock offset: 1.993 ms

# Below is generated by plot.py at 2018-08-01 11:58:32

# Datalink statistics

-- Total of 3 flows:

Average throughput: 86.20 Mbit/s

95th percentile per-packet one-way delay: 54.482 ms

Loss rate: 0.17%

-- Flow 1:

Average throughput: 63.43 Mbit/s

95th percentile per-packet one-way delay: 48.359 ms

Loss rate: 0.18%

-- Flow 2:

Average throughput: 28.86 Mbit/s

95th percentile per-packet one-way delay: 56.429 ms

Loss rate: 0.18%

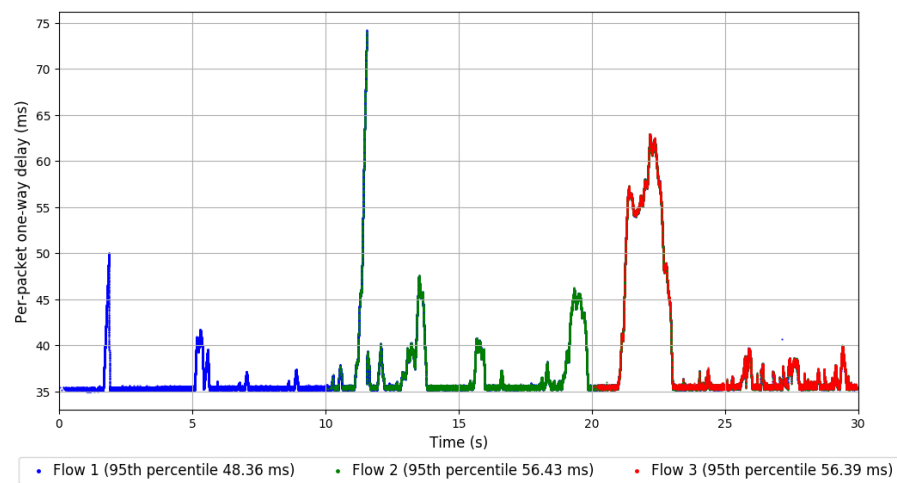
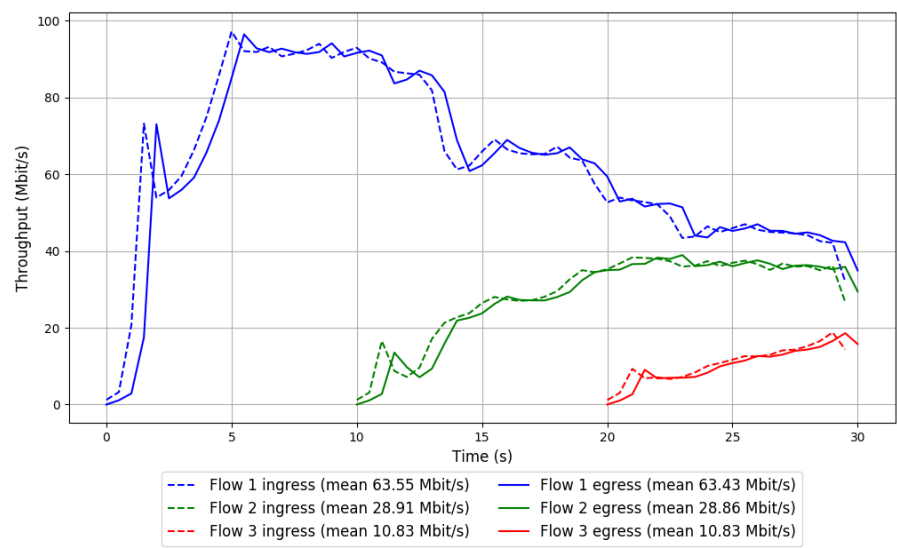
-- Flow 3:

Average throughput: 10.83 Mbit/s

95th percentile per-packet one-way delay: 56.388 ms

Loss rate: 0.00%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2018-08-01 09:14:03

End at: 2018-08-01 09:14:33

Local clock offset: -3.273 ms

Remote clock offset: 2.101 ms

# Below is generated by plot.py at 2018-08-01 11:58:33

# Datalink statistics

-- Total of 3 flows:

Average throughput: 84.91 Mbit/s

95th percentile per-packet one-way delay: 53.844 ms

Loss rate: 0.32%

-- Flow 1:

Average throughput: 57.73 Mbit/s

95th percentile per-packet one-way delay: 52.980 ms

Loss rate: 0.32%

-- Flow 2:

Average throughput: 32.80 Mbit/s

95th percentile per-packet one-way delay: 54.611 ms

Loss rate: 0.40%

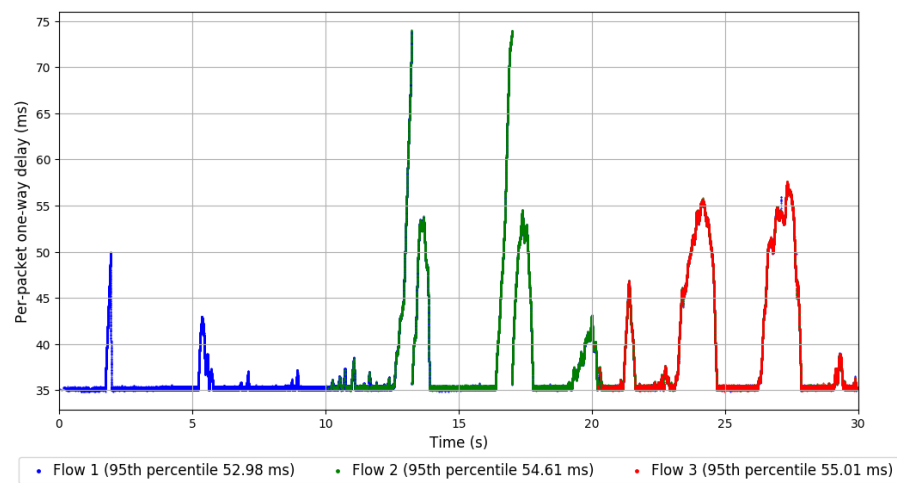
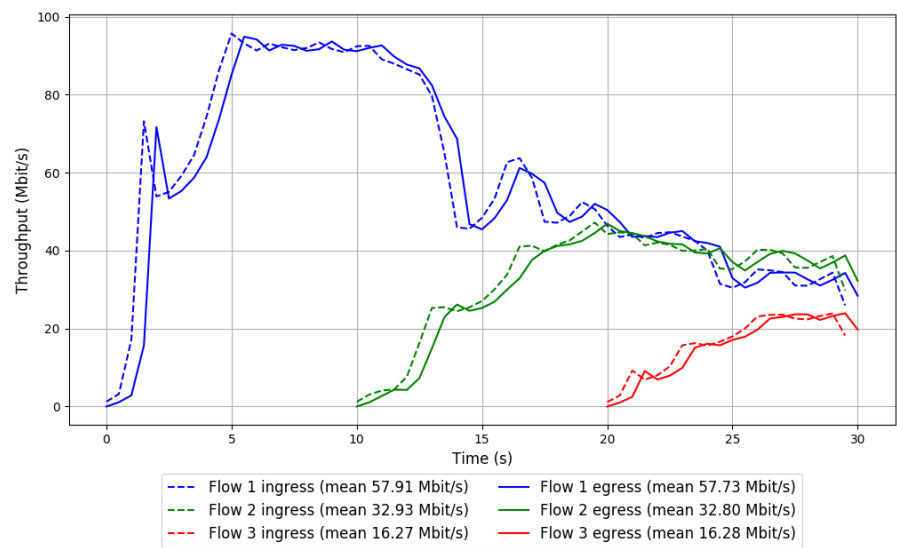
-- Flow 3:

Average throughput: 16.28 Mbit/s

95th percentile per-packet one-way delay: 55.012 ms

Loss rate: 0.00%

Run 5: Report of PCC-Vivace — Data Link



Run 6: Statistics of PCC-Vivace

Start at: 2018-08-01 09:36:56

End at: 2018-08-01 09:37:26

Local clock offset: -3.246 ms

Remote clock offset: 2.119 ms

# Below is generated by plot.py at 2018-08-01 11:58:38

# Datalink statistics

-- Total of 3 flows:

Average throughput: 85.43 Mbit/s

95th percentile per-packet one-way delay: 59.533 ms

Loss rate: 0.16%

-- Flow 1:

Average throughput: 63.66 Mbit/s

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

Loss rate: 0.18%

-- Flow 2:

Average throughput: 22.75 Mbit/s

95th percentile per-packet one-way delay: 63.330 ms

Loss rate: 0.20%

-- Flow 3:

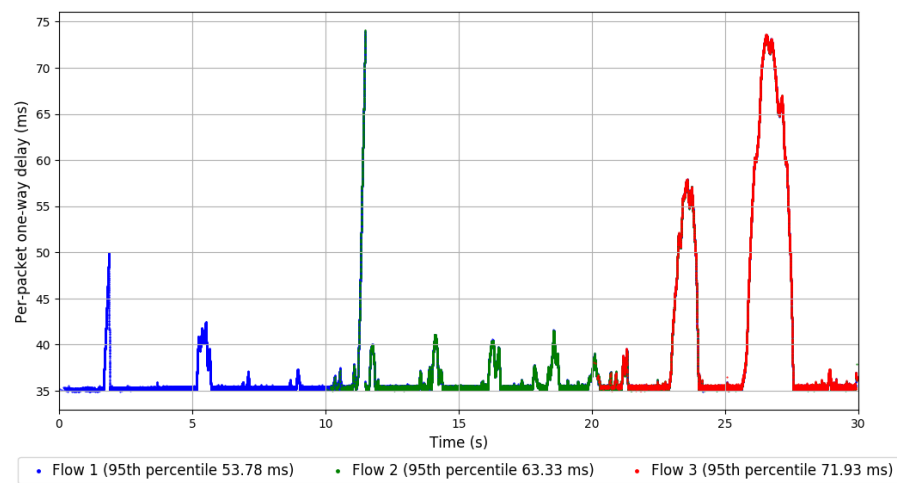
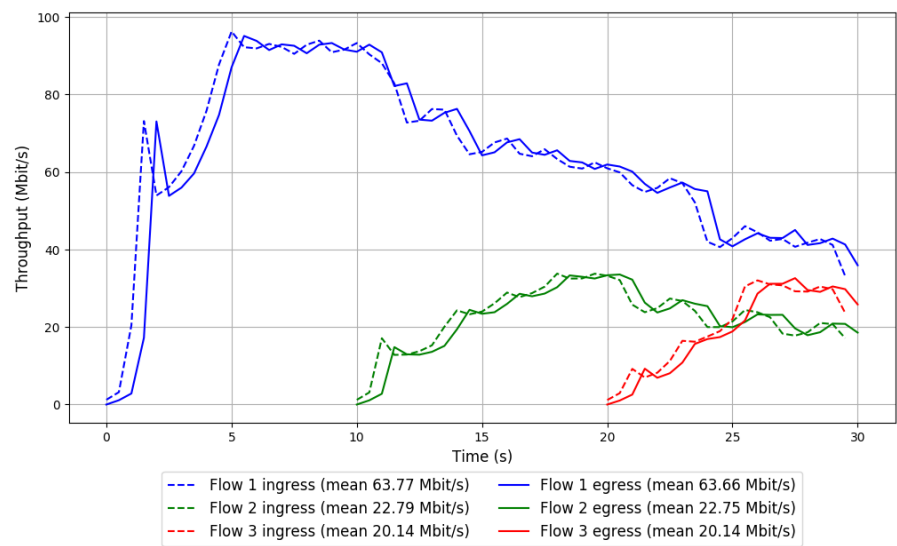
Average throughput: 20.14 Mbit/s

95th percentile per-packet one-way delay: 71.927 ms

Loss rate: 0.00%



Run 6: Report of PCC-Vivace — Data Link



Run 7: Statistics of PCC-Vivace

Start at: 2018-08-01 10:00:02

End at: 2018-08-01 10:00:32

Local clock offset: -1.275 ms

Remote clock offset: 1.845 ms

# Below is generated by plot.py at 2018-08-01 11:58:44

# Datalink statistics

-- Total of 3 flows:

Average throughput: 84.24 Mbit/s

95th percentile per-packet one-way delay: 52.970 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 63.12 Mbit/s

95th percentile per-packet one-way delay: 53.261 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 24.45 Mbit/s

95th percentile per-packet one-way delay: 51.611 ms

Loss rate: 0.00%

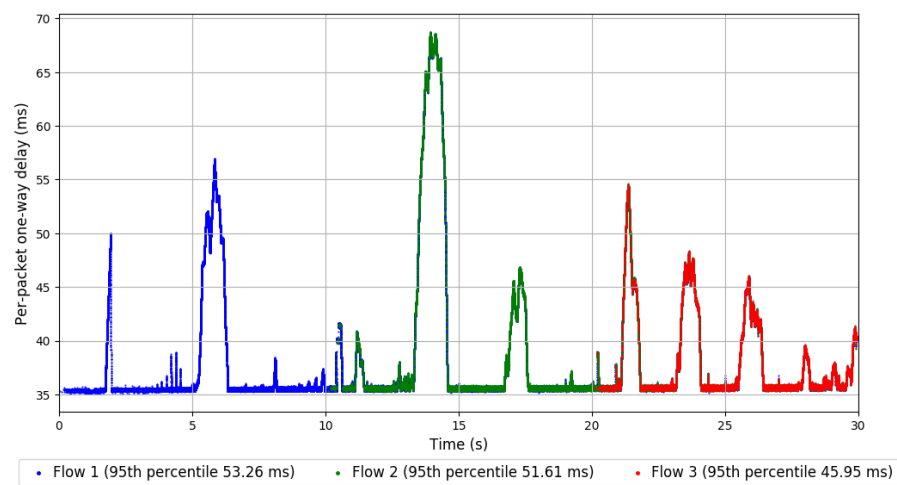
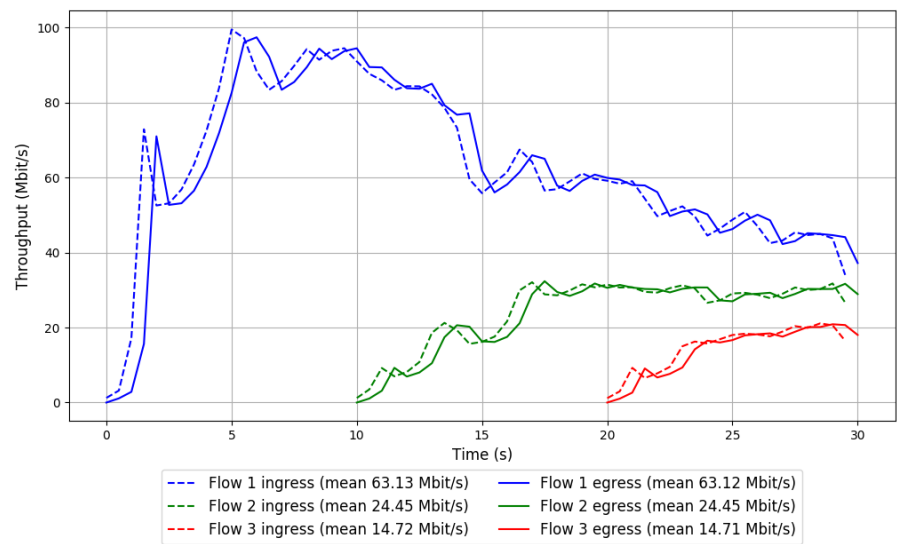
-- Flow 3:

Average throughput: 14.71 Mbit/s

95th percentile per-packet one-way delay: 45.950 ms

Loss rate: 0.00%

Run 7: Report of PCC-Vivace — Data Link



Run 8: Statistics of PCC-Vivace

Start at: 2018-08-01 10:23:01

End at: 2018-08-01 10:23:31

Local clock offset: 0.676 ms

Remote clock offset: 1.844 ms

# Below is generated by plot.py at 2018-08-01 11:58:48

# Datalink statistics

-- Total of 3 flows:

Average throughput: 85.17 Mbit/s

95th percentile per-packet one-way delay: 53.887 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 63.06 Mbit/s

95th percentile per-packet one-way delay: 53.908 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 28.11 Mbit/s

95th percentile per-packet one-way delay: 57.516 ms

Loss rate: 0.00%

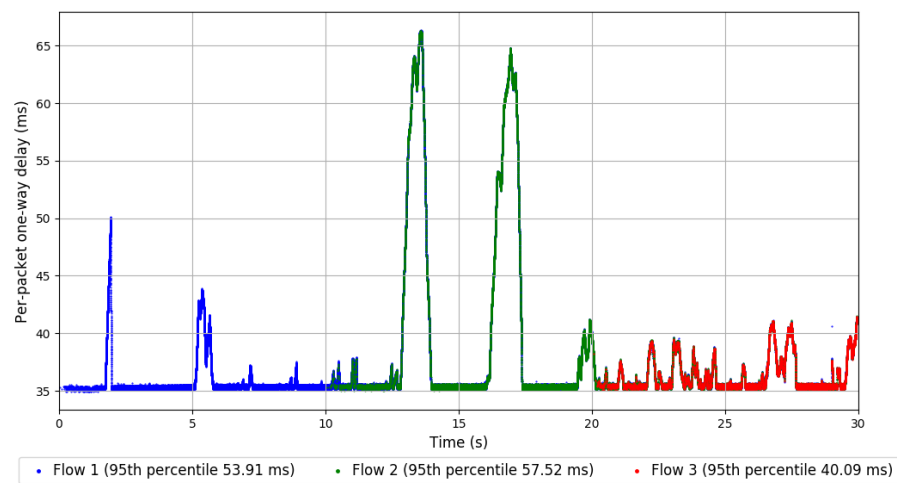
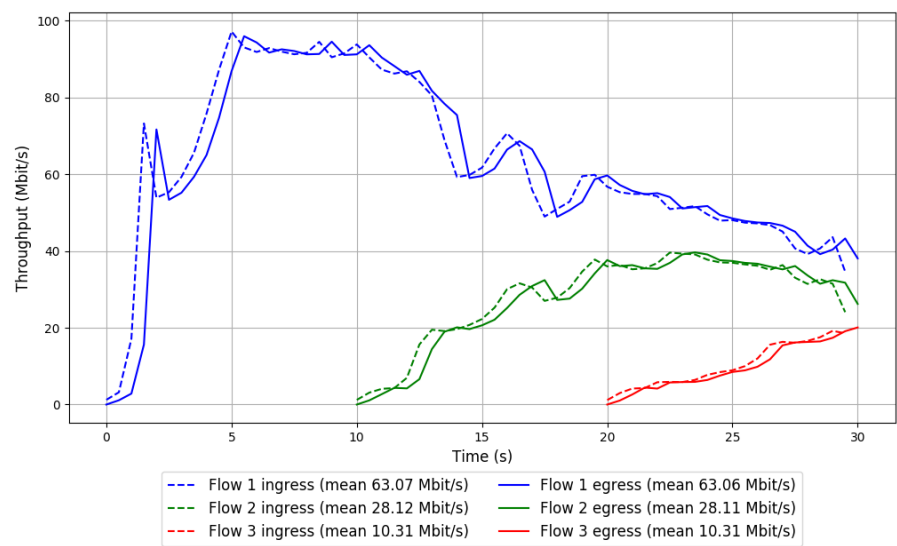
-- Flow 3:

Average throughput: 10.31 Mbit/s

95th percentile per-packet one-way delay: 40.086 ms

Loss rate: 0.00%

Run 8: Report of PCC-Vivace — Data Link



Run 9: Statistics of PCC-Vivace

Start at: 2018-08-01 10:45:56

End at: 2018-08-01 10:46:26

Local clock offset: 0.562 ms

Remote clock offset: 1.639 ms

# Below is generated by plot.py at 2018-08-01 11:58:58

# Datalink statistics

-- Total of 3 flows:

Average throughput: 86.41 Mbit/s

95th percentile per-packet one-way delay: 39.209 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 71.05 Mbit/s

95th percentile per-packet one-way delay: 38.901 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 18.62 Mbit/s

95th percentile per-packet one-way delay: 39.732 ms

Loss rate: 0.00%

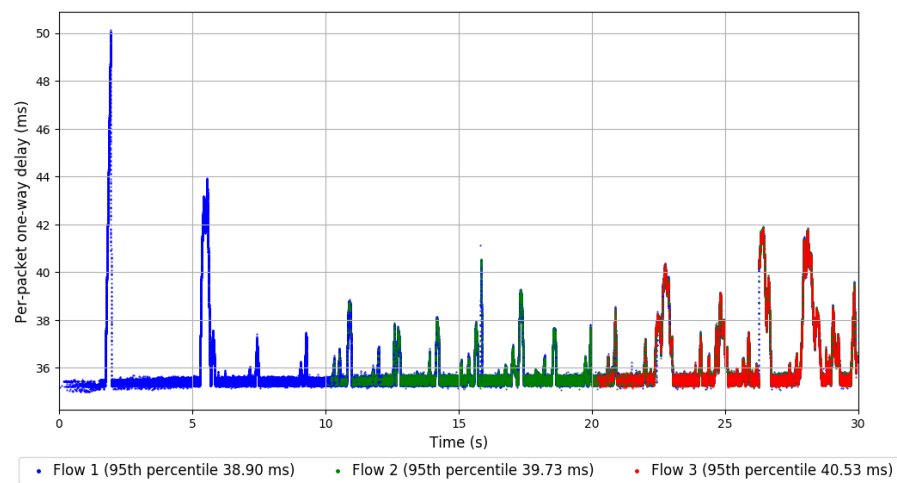
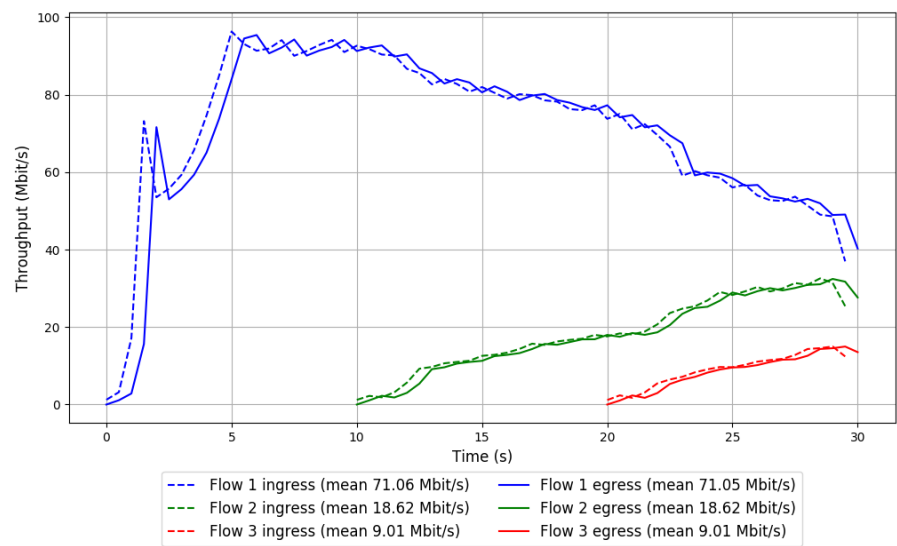
-- Flow 3:

Average throughput: 9.01 Mbit/s

95th percentile per-packet one-way delay: 40.529 ms

Loss rate: 0.00%

Run 9: Report of PCC-Vivace — Data Link



Run 10: Statistics of PCC-Vivace

Start at: 2018-08-01 11:08:48

End at: 2018-08-01 11:09:18

Local clock offset: -2.698 ms

Remote clock offset: 1.818 ms

# Below is generated by plot.py at 2018-08-01 11:58:58

# Datalink statistics

-- Total of 3 flows:

Average throughput: 85.68 Mbit/s

95th percentile per-packet one-way delay: 47.222 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 67.44 Mbit/s

95th percentile per-packet one-way delay: 43.477 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 21.46 Mbit/s

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

Loss rate: 0.06%

-- Flow 3:

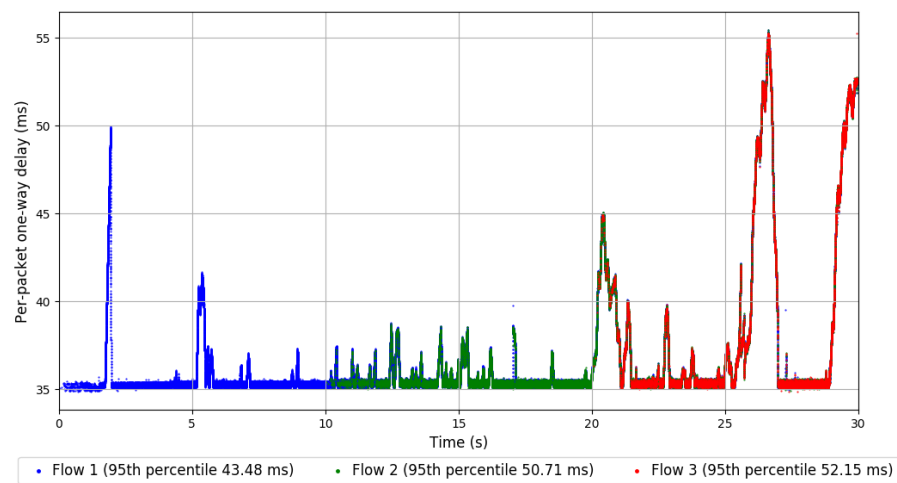
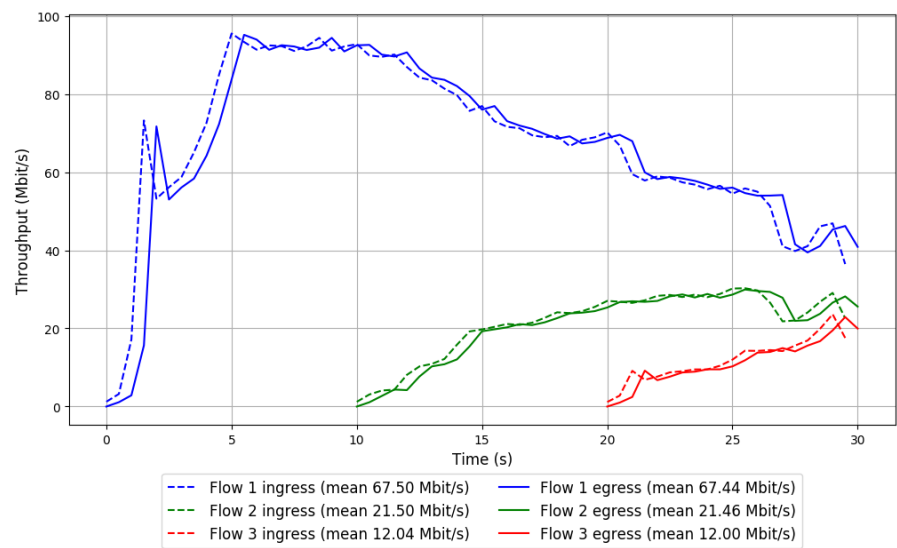
Average throughput: 12.00 Mbit/s

95th percentile per-packet one-way delay: 52.150 ms

Loss rate: 0.11%



Run 10: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

Start at: 2018-08-01 07:51:57

End at: 2018-08-01 07:52:27

Local clock offset: 0.892 ms

Remote clock offset: 1.715 ms

# Below is generated by plot.py at 2018-08-01 11:58:58

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.57 Mbit/s

95th percentile per-packet one-way delay: 36.839 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.92 Mbit/s

95th percentile per-packet one-way delay: 36.241 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.22 Mbit/s

95th percentile per-packet one-way delay: 36.633 ms

Loss rate: 0.00%

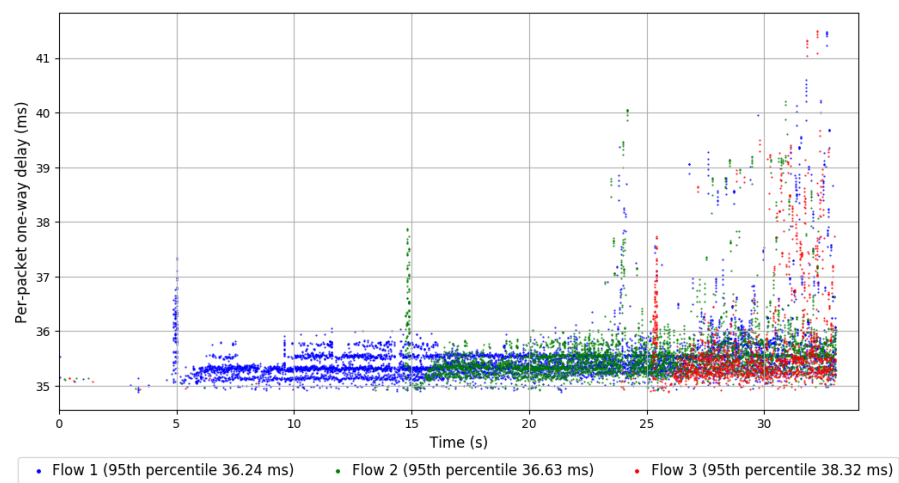
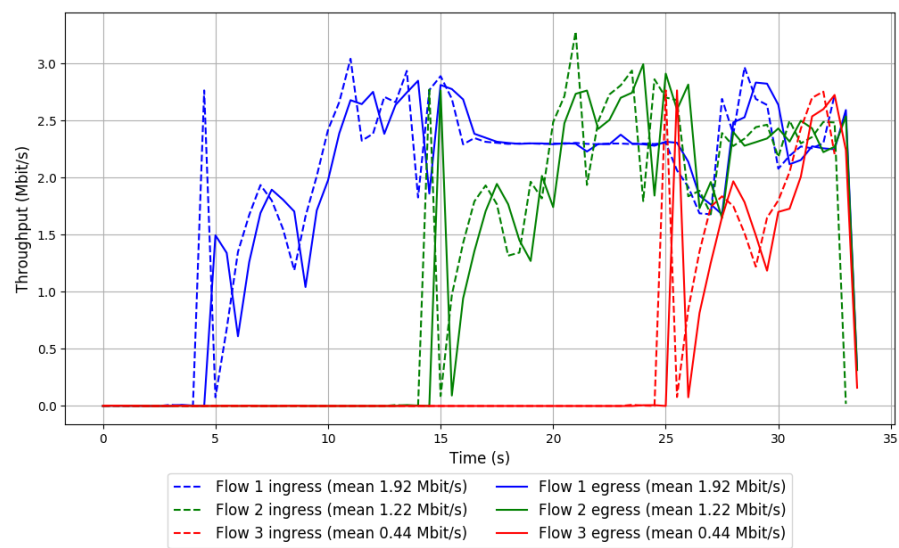
-- Flow 3:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 38.319 ms

Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-08-01 08:14:48

End at: 2018-08-01 08:15:18

Local clock offset: 0.393 ms

Remote clock offset: 4.068 ms

# Below is generated by plot.py at 2018-08-01 11:58:58

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.62 Mbit/s

95th percentile per-packet one-way delay: 36.230 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.95 Mbit/s

95th percentile per-packet one-way delay: 36.077 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.25 Mbit/s

95th percentile per-packet one-way delay: 36.194 ms

Loss rate: 0.00%

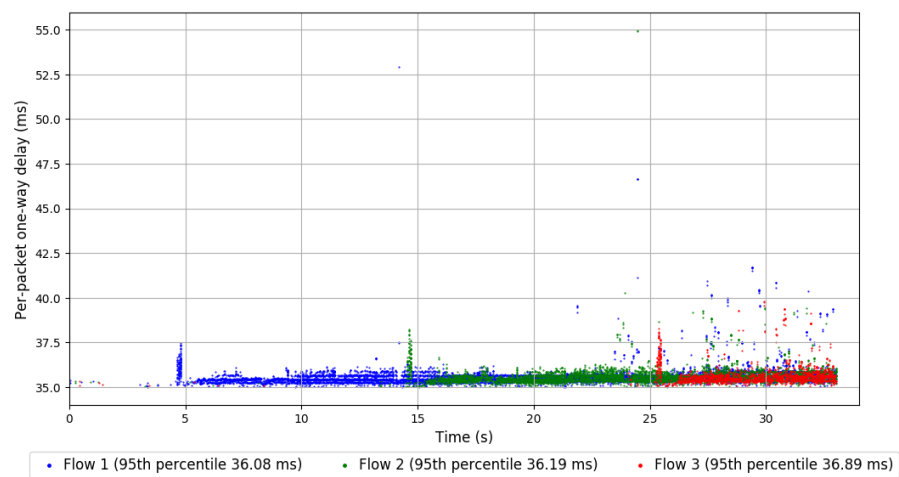
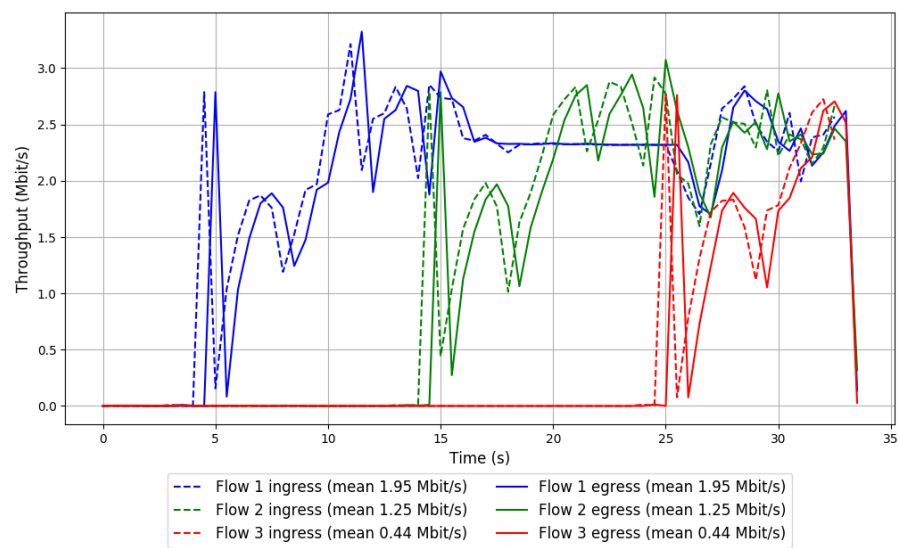
-- Flow 3:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 36.894 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-08-01 08:37:41

End at: 2018-08-01 08:38:11

Local clock offset: 0.366 ms

Remote clock offset: 3.228 ms

# Below is generated by plot.py at 2018-08-01 11:58:58

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.58 Mbit/s

95th percentile per-packet one-way delay: 36.357 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.92 Mbit/s

95th percentile per-packet one-way delay: 36.093 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.25 Mbit/s

95th percentile per-packet one-way delay: 36.482 ms

Loss rate: 0.00%

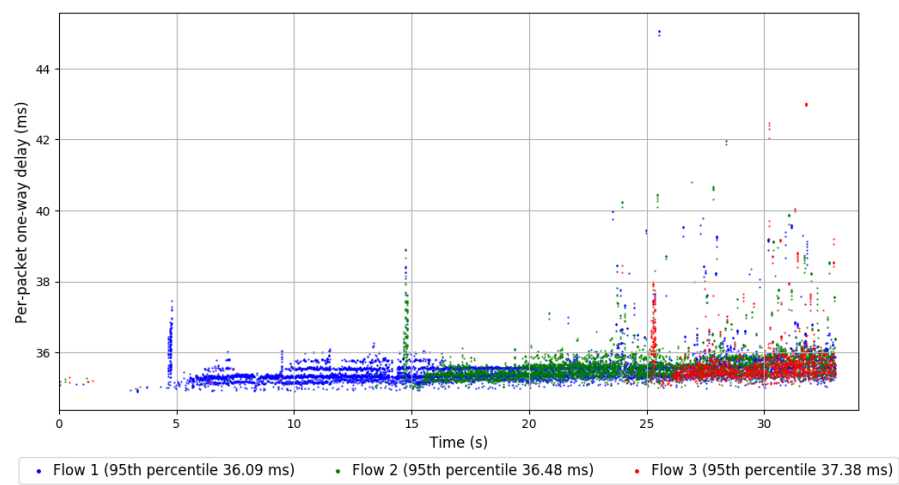
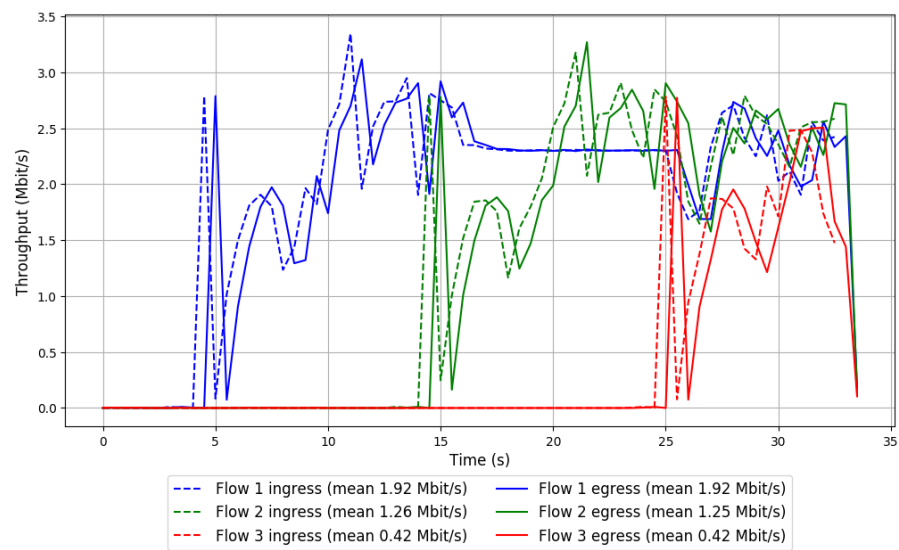
-- Flow 3:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 37.380 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-08-01 09:00:38

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

Local clock offset: -1.761 ms

Remote clock offset: 1.659 ms

# Below is generated by plot.py at 2018-08-01 11:58:58

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.59 Mbit/s

95th percentile per-packet one-way delay: 36.206 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.94 Mbit/s

95th percentile per-packet one-way delay: 35.875 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.24 Mbit/s

95th percentile per-packet one-way delay: 36.381 ms

Loss rate: 0.00%

-- Flow 3:

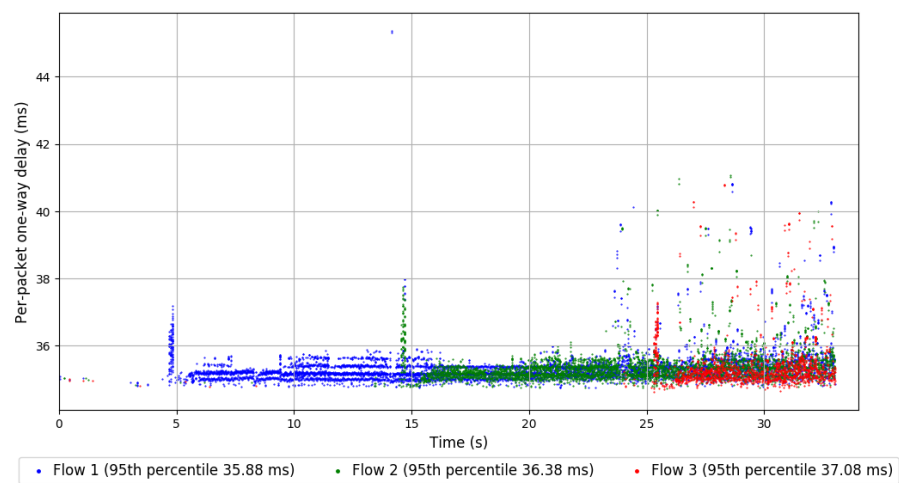
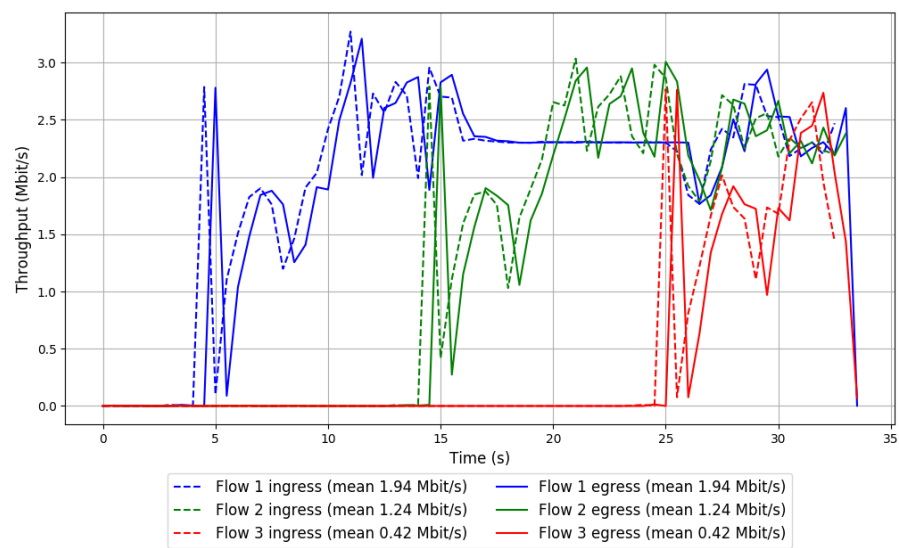
Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 37.078 ms

Loss rate: 0.00%



Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-08-01 09:23:30

End at: 2018-08-01 09:24:00

Local clock offset: -3.733 ms

Remote clock offset: 2.055 ms

# Below is generated by plot.py at 2018-08-01 11:58:58

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.60 Mbit/s

95th percentile per-packet one-way delay: 36.150 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.94 Mbit/s

95th percentile per-packet one-way delay: 36.067 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.24 Mbit/s

95th percentile per-packet one-way delay: 36.195 ms

Loss rate: 0.00%

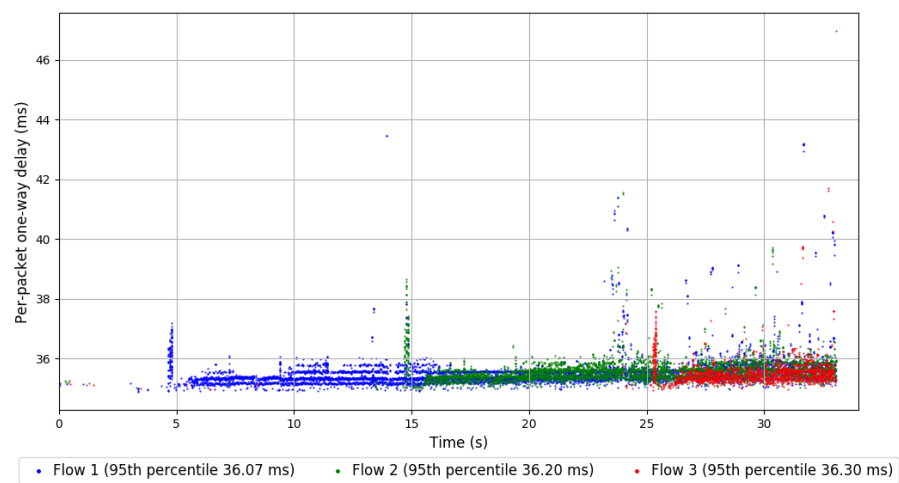
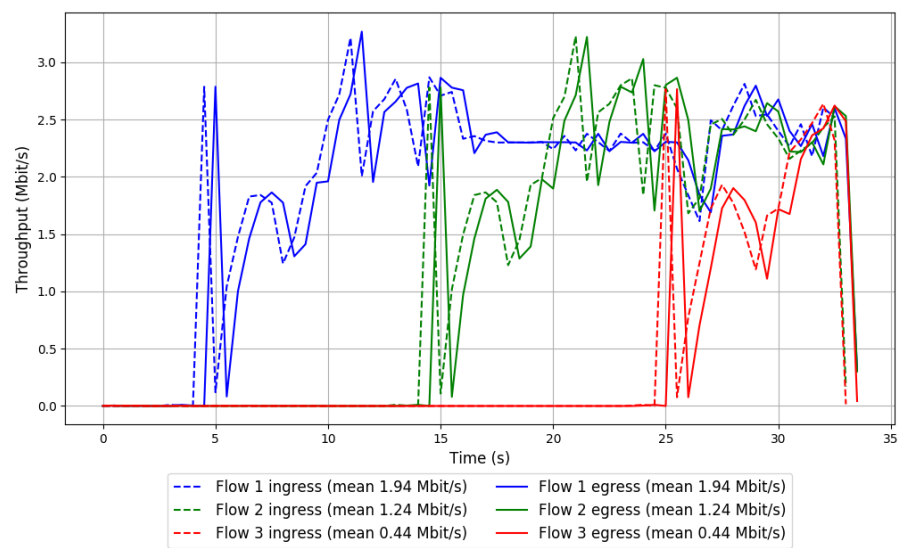
-- Flow 3:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 36.305 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-08-01 09:46:26

End at: 2018-08-01 09:46:56

Local clock offset: -3.298 ms

Remote clock offset: 2.124 ms

# Below is generated by plot.py at 2018-08-01 11:58:58

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.60 Mbit/s

95th percentile per-packet one-way delay: 36.433 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.92 Mbit/s

95th percentile per-packet one-way delay: 36.127 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.26 Mbit/s

95th percentile per-packet one-way delay: 36.479 ms

Loss rate: 0.00%

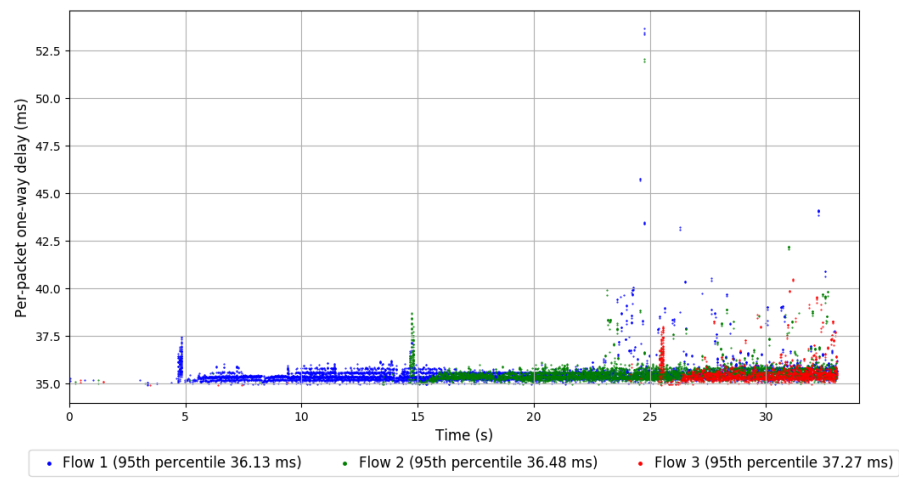
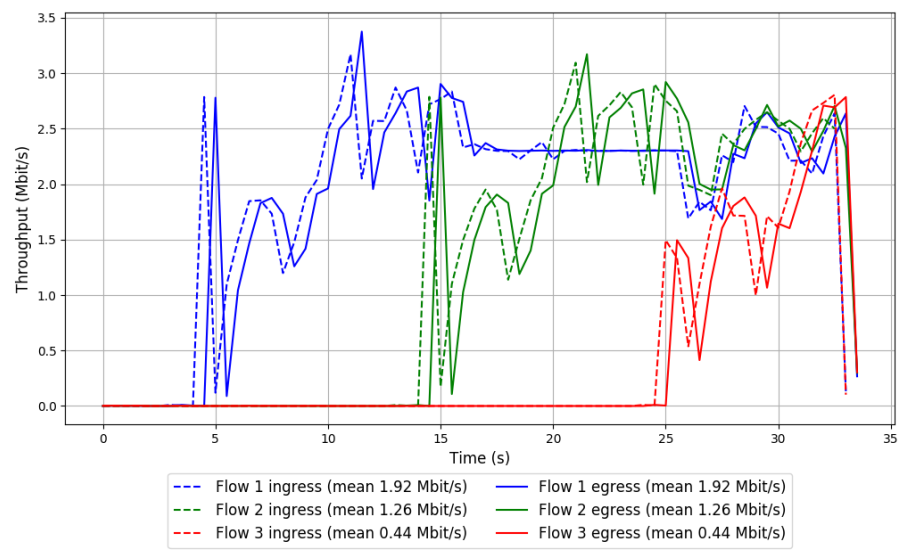
-- Flow 3:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 37.269 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-08-01 10:09:32

End at: 2018-08-01 10:10:02

Local clock offset: 0.089 ms

Remote clock offset: 1.91 ms

# Below is generated by plot.py at 2018-08-01 11:58:58

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.61 Mbit/s

95th percentile per-packet one-way delay: 36.592 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.94 Mbit/s

95th percentile per-packet one-way delay: 36.213 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.25 Mbit/s

95th percentile per-packet one-way delay: 36.768 ms

Loss rate: 0.00%

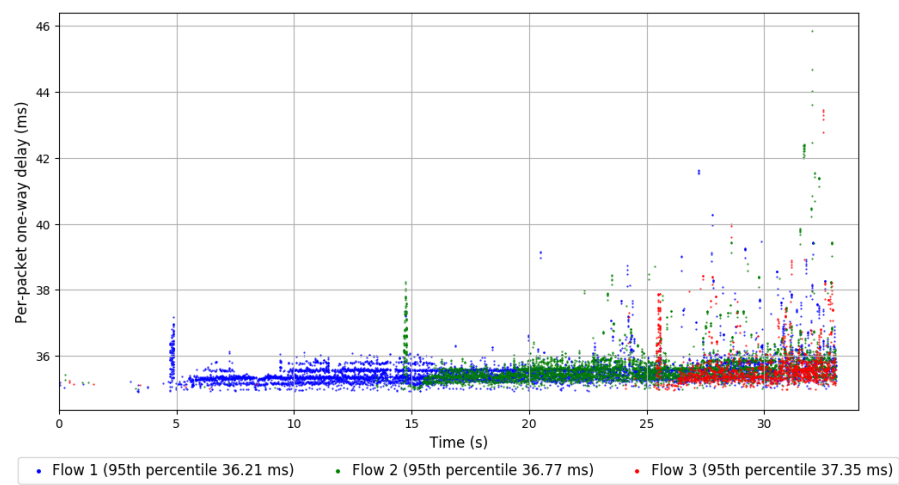
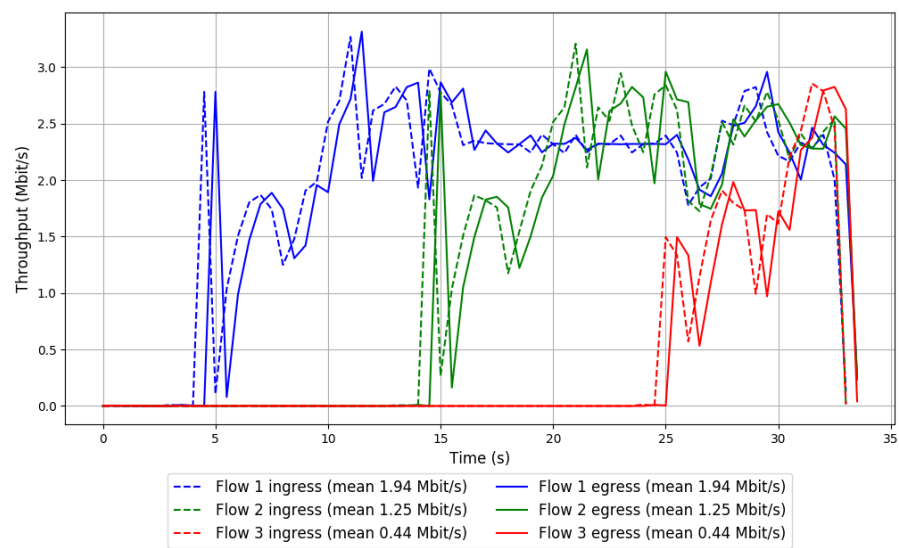
-- Flow 3:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 37.351 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-08-01 10:32:29

End at: 2018-08-01 10:32:59

Local clock offset: 0.445 ms

Remote clock offset: 1.804 ms

# Below is generated by plot.py at 2018-08-01 11:58:58

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.58 Mbit/s

95th percentile per-packet one-way delay: 36.730 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.91 Mbit/s

95th percentile per-packet one-way delay: 36.452 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.25 Mbit/s

95th percentile per-packet one-way delay: 36.454 ms

Loss rate: 0.00%

-- Flow 3:

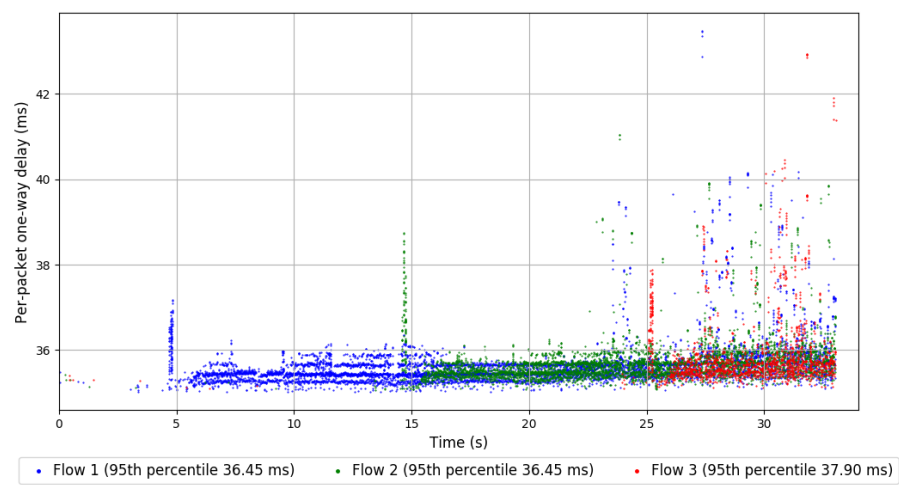
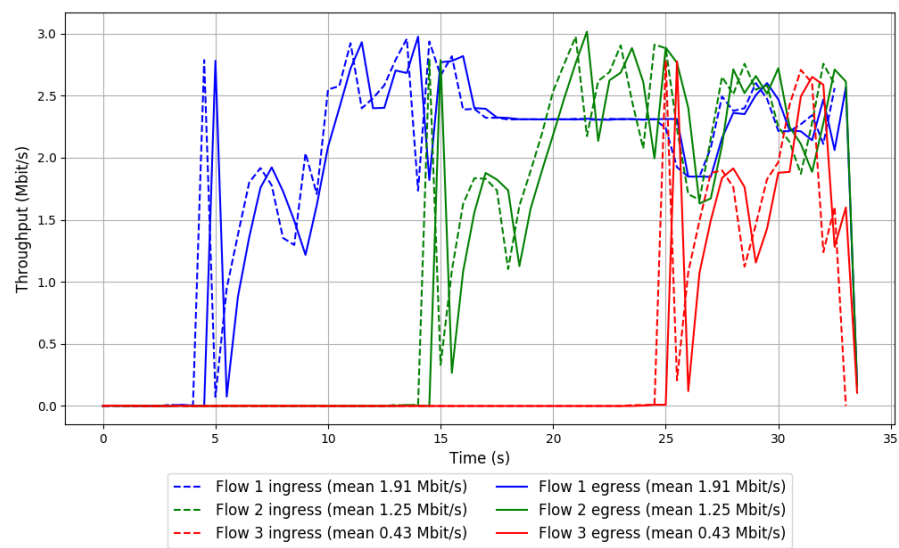
Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 37.903 ms

Loss rate: 0.00%



Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-08-01 10:55:23

End at: 2018-08-01 10:55:53

Local clock offset: -0.282 ms

Remote clock offset: 1.685 ms

# Below is generated by plot.py at 2018-08-01 11:58:58

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.61 Mbit/s

95th percentile per-packet one-way delay: 36.282 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.93 Mbit/s

95th percentile per-packet one-way delay: 35.984 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.26 Mbit/s

95th percentile per-packet one-way delay: 36.534 ms

Loss rate: 0.00%

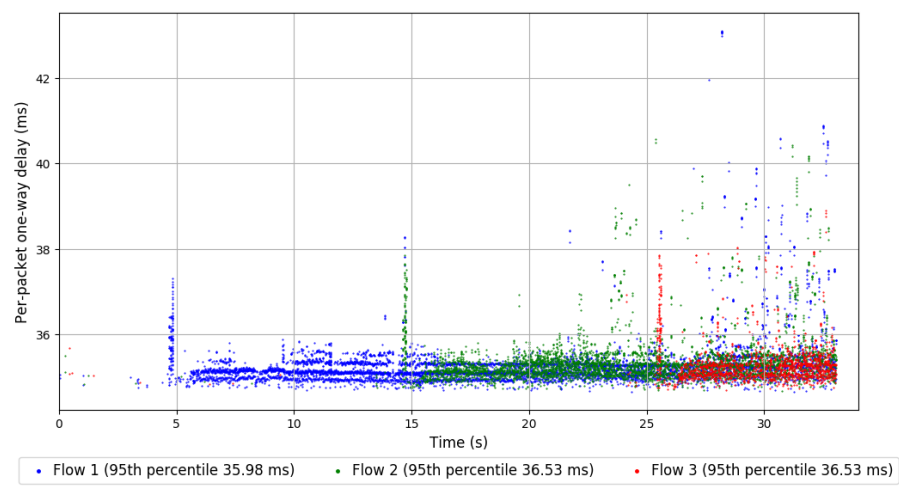
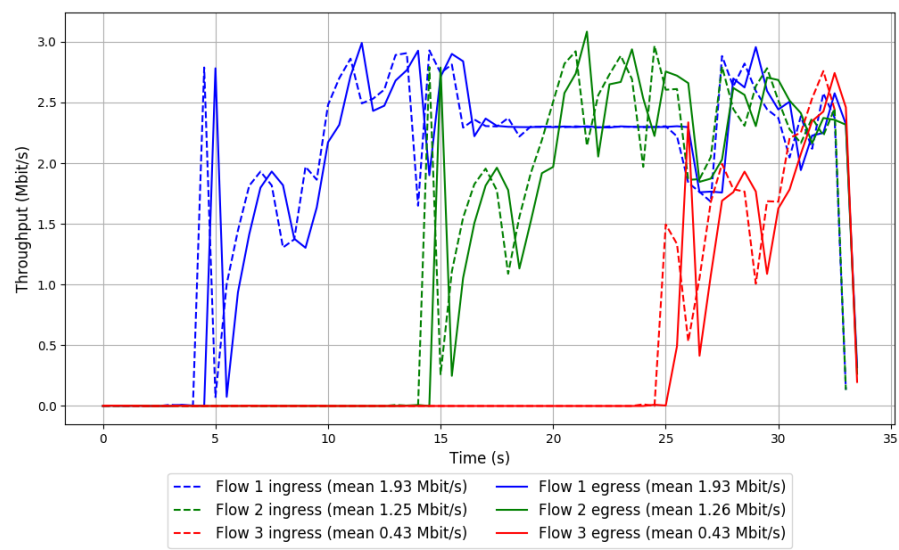
-- Flow 3:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 36.532 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-08-01 11:18:17

End at: 2018-08-01 11:18:47

Local clock offset: -3.319 ms

Remote clock offset: 1.926 ms

# Below is generated by plot.py at 2018-08-01 11:58:58

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.57 Mbit/s

95th percentile per-packet one-way delay: 35.929 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.94 Mbit/s

95th percentile per-packet one-way delay: 35.967 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.23 Mbit/s

95th percentile per-packet one-way delay: 35.512 ms

Loss rate: 0.00%

-- Flow 3:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 36.272 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

