

## Pantheon Report

Generated at 2018-07-18 13:23:12 (UTC).

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

Repeated the test of 17 congestion control schemes 10 times.

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

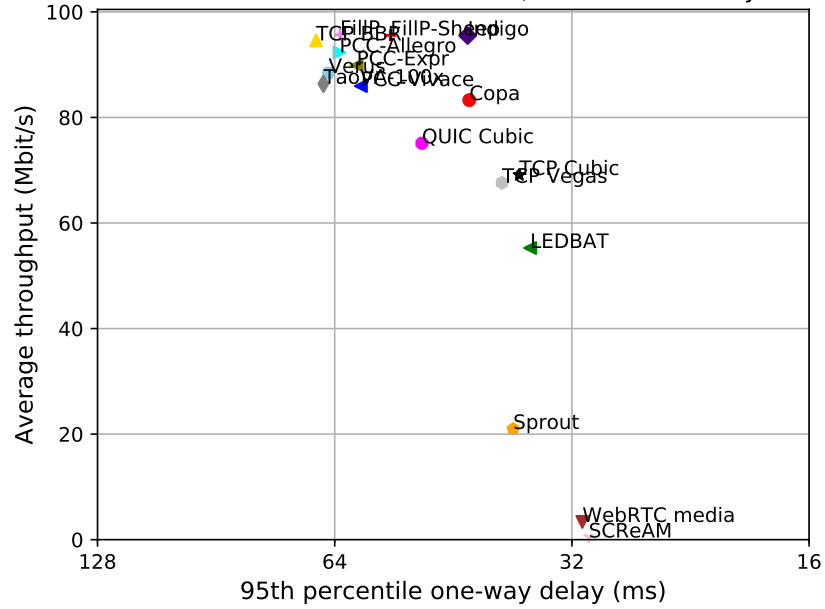
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

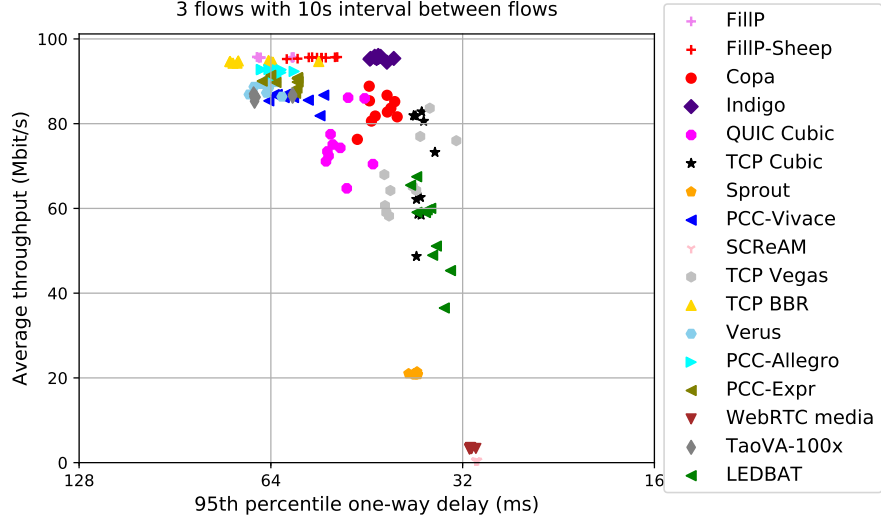
Git summary:

```
branch: master @ f7befc2d8410f41949e0ad8143a9aab40bab7edb
third_party/fillp @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/fillp-sheep @ daed0c84f98531712514b2231f43ec6901114ffe
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
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 Mexico to AWS California 2, 10 runs of 30s each per scheme  
 3 flows with 10s interval between flows (mean of all runs by scheme)



test from Mexico to AWS California 2, 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     | 58.34                  | 38.75  | 31.64  | 60.31                     | 67.96  | 68.29  | 2.19               | 3.42   | 3.86   |
| Copa         | 10     | 50.92                  | 36.23  | 24.91  | 42.34                     | 44.56  | 43.66  | 0.25               | 0.35   | 0.81   |
| TCP Cubic    | 10     | 41.24                  | 28.83  | 26.18  | 36.66                     | 37.61  | 39.09  | 0.21               | 0.36   | 0.80   |
| FillP        | 10     | 59.25                  | 39.03  | 31.60  | 59.10                     | 62.20  | 61.46  | 1.90               | 3.91   | 4.54   |
| FillP-Sheep  | 10     | 58.81                  | 38.06  | 34.67  | 52.77                     | 59.03  | 57.04  | 0.92               | 1.08   | 1.53   |
| Indigo       | 10     | 59.24                  | 38.37  | 32.95  | 43.37                     | 43.94  | 43.87  | 0.27               | 0.39   | 0.79   |
| LEDBAT       | 10     | 32.42                  | 25.39  | 17.99  | 35.86                     | 35.73  | 39.07  | 0.26               | 0.48   | 1.04   |
| PCC-Allegro  | 10     | 59.12                  | 35.51  | 29.23  | 58.72                     | 65.14  | 60.09  | 4.35               | 4.31   | 1.96   |
| PCC-Expr     | 10     | 54.84                  | 39.02  | 27.67  | 57.29                     | 57.47  | 61.50  | 0.81               | 0.98   | 1.30   |
| QUIC Cubic   | 10     | 41.26                  | 36.82  | 28.53  | 42.29                     | 51.97  | 59.75  | 0.25               | 0.47   | 1.08   |
| SCReAM       | 10     | 0.20                   | 0.21   | 0.22   | 30.43                     | 30.44  | 30.46  | 0.26               | 0.39   | 0.71   |
| Sprout       | 10     | 10.65                  | 10.51  | 10.17  | 37.78                     | 38.17  | 38.19  | 0.27               | 0.44   | 0.76   |
| TaoVA-100x   | 10     | 51.58                  | 37.59  | 29.51  | 57.23                     | 64.83  | 63.74  | 0.70               | 1.24   | 2.60   |
| TCP Vegas    | 10     | 38.88                  | 28.97  | 28.57  | 38.51                     | 39.97  | 47.70  | 0.18               | 0.33   | 0.67   |
| Verus        | 10     | 51.71                  | 40.38  | 30.07  | 64.73                     | 63.06  | 67.08  | 0.40               | 0.67   | 1.25   |
| PCC-Vivace   | 10     | 55.83                  | 33.30  | 24.28  | 52.34                     | 66.35  | 55.64  | 1.40               | 1.87   | 1.51   |
| WebRTC media | 10     | 1.86                   | 1.06   | 0.45   | 30.94                     | 31.01  | 31.34  | 0.15               | 0.31   | 0.64   |

Run 1: Statistics of TCP BBR

Start at: 2018-07-18 09:25:27

End at: 2018-07-18 09:25:57

Local clock offset: 0.214 ms

Remote clock offset: 3.376 ms

# Below is generated by plot.py at 2018-07-18 13:02:21

# Datalink statistics

-- Total of 3 flows:

Average throughput: 94.27 Mbit/s

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

Loss rate: 2.75%

-- Flow 1:

Average throughput: 62.83 Mbit/s

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

Loss rate: 2.31%

-- Flow 2:

Average throughput: 35.36 Mbit/s

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

Loss rate: 3.26%

-- Flow 3:

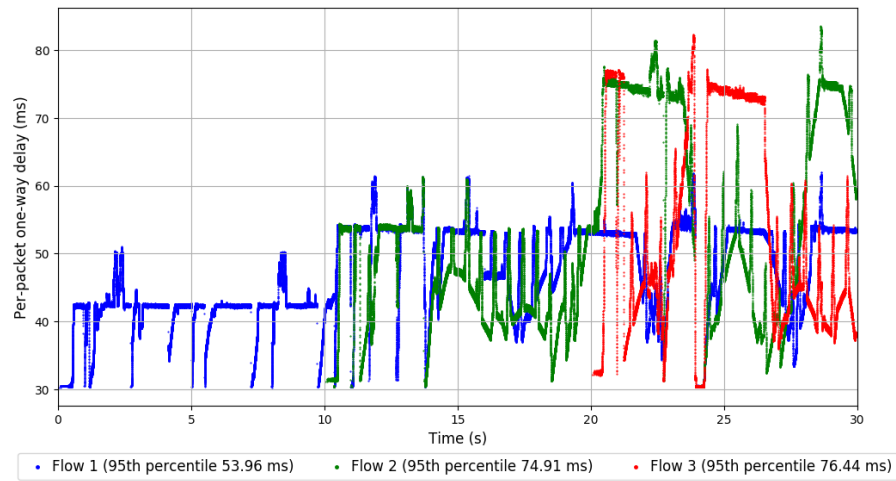
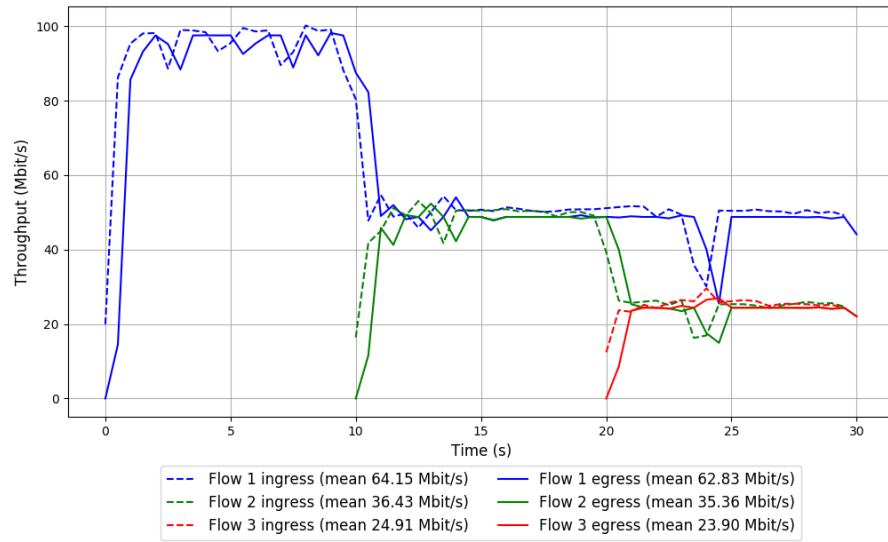
Average throughput: 23.90 Mbit/s

95th percentile per-packet one-way delay: 76.440 ms

Loss rate: 4.72%



# Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-07-18 09:48:41

End at: 2018-07-18 09:49:11

Local clock offset: 0.294 ms

Remote clock offset: 3.959 ms

# Below is generated by plot.py at 2018-07-18 13:02:21

# Datalink statistics

-- Total of 3 flows:

Average throughput: 94.66 Mbit/s

95th percentile per-packet one-way delay: 74.226 ms

Loss rate: 2.88%

-- Flow 1:

Average throughput: 54.52 Mbit/s

95th percentile per-packet one-way delay: 72.440 ms

Loss rate: 2.28%

-- Flow 2:

Average throughput: 48.33 Mbit/s

95th percentile per-packet one-way delay: 55.707 ms

Loss rate: 3.42%

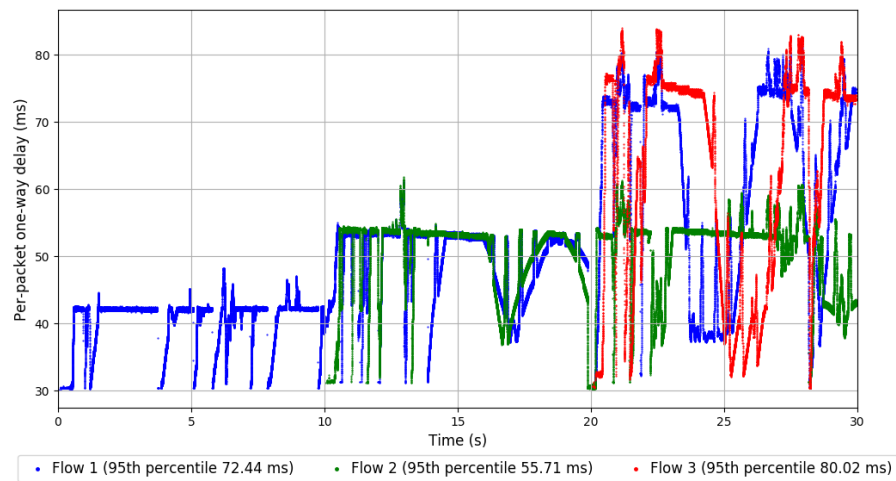
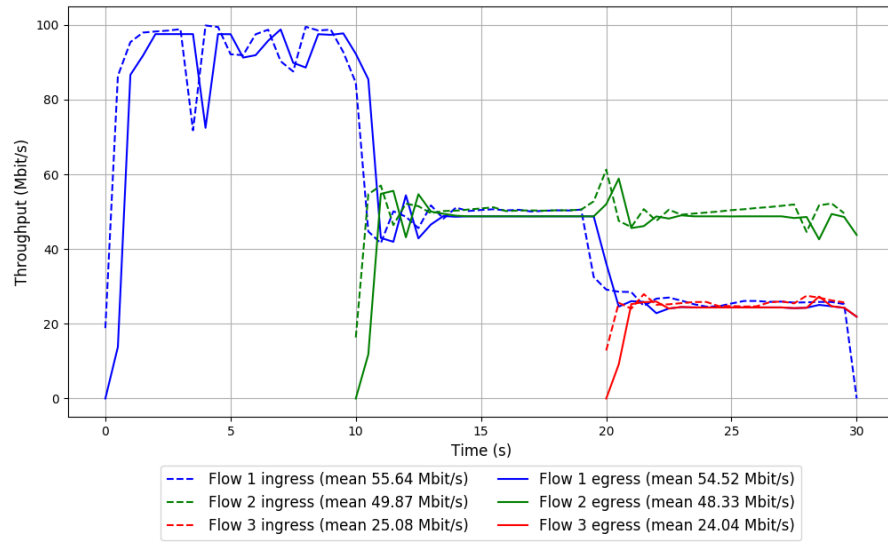
-- Flow 3:

Average throughput: 24.04 Mbit/s

95th percentile per-packet one-way delay: 80.017 ms

Loss rate: 4.79%

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



Run 3: Statistics of TCP BBR

Start at: 2018-07-18 10:12:17

End at: 2018-07-18 10:12:47

Local clock offset: 0.311 ms

Remote clock offset: 3.602 ms

# Below is generated by plot.py at 2018-07-18 13:02:21

# Datalink statistics

-- Total of 3 flows:

Average throughput: 94.55 Mbit/s

95th percentile per-packet one-way delay: 63.998 ms

Loss rate: 2.42%

-- Flow 1:

Average throughput: 57.72 Mbit/s

95th percentile per-packet one-way delay: 59.488 ms

Loss rate: 1.81%

-- Flow 2:

Average throughput: 39.50 Mbit/s

95th percentile per-packet one-way delay: 62.756 ms

Loss rate: 3.13%

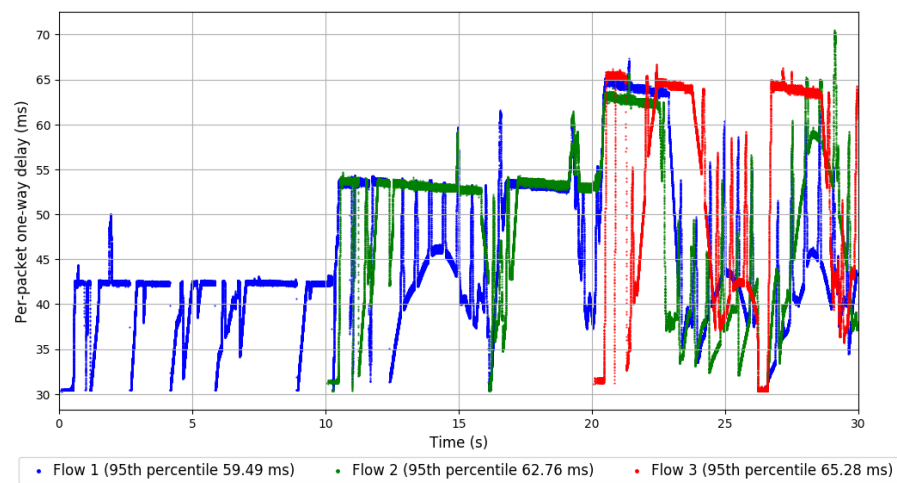
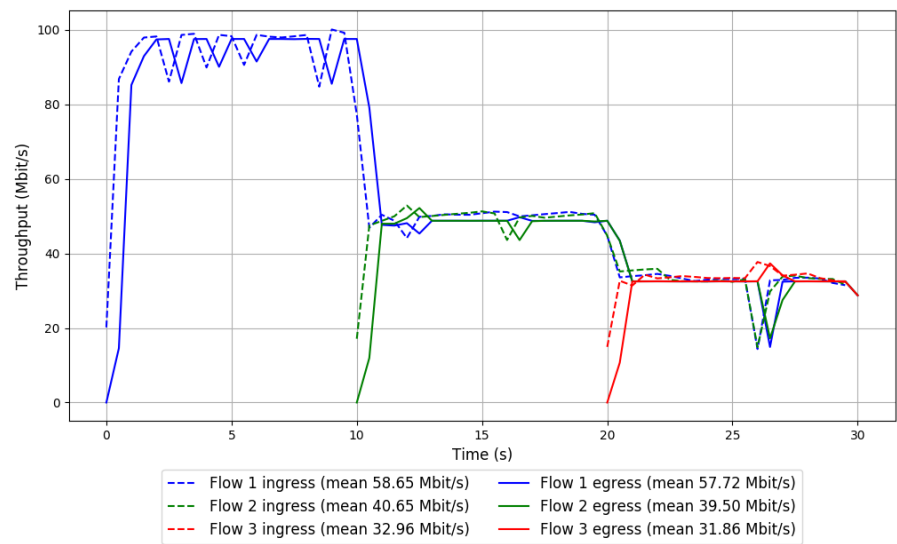
-- Flow 3:

Average throughput: 31.86 Mbit/s

95th percentile per-packet one-way delay: 65.279 ms

Loss rate: 3.97%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-07-18 10:36:00

End at: 2018-07-18 10:36:30

Local clock offset: 0.076 ms

Remote clock offset: 3.215 ms

# Below is generated by plot.py at 2018-07-18 13:02:21

# Datalink statistics

-- Total of 3 flows:

Average throughput: 94.81 Mbit/s

95th percentile per-packet one-way delay: 71.997 ms

Loss rate: 3.19%

-- Flow 1:

Average throughput: 55.48 Mbit/s

95th percentile per-packet one-way delay: 71.673 ms

Loss rate: 2.69%

-- Flow 2:

Average throughput: 35.62 Mbit/s

95th percentile per-packet one-way delay: 73.031 ms

Loss rate: 4.05%

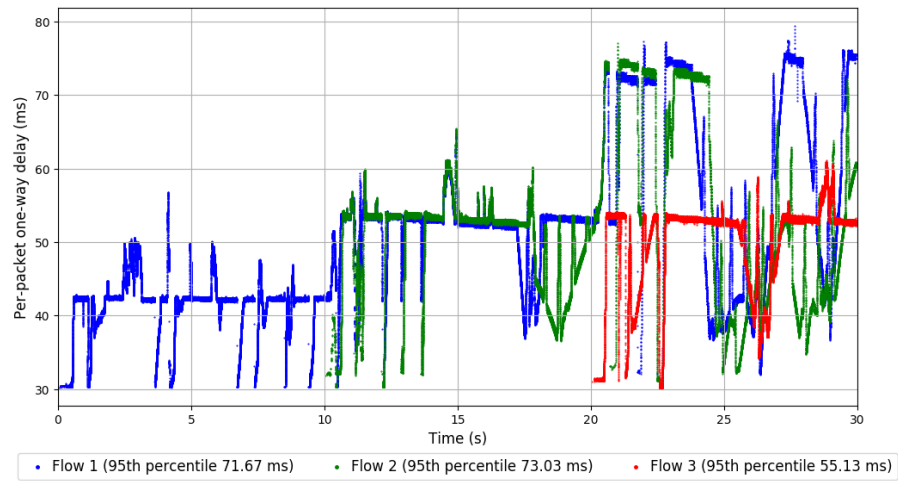
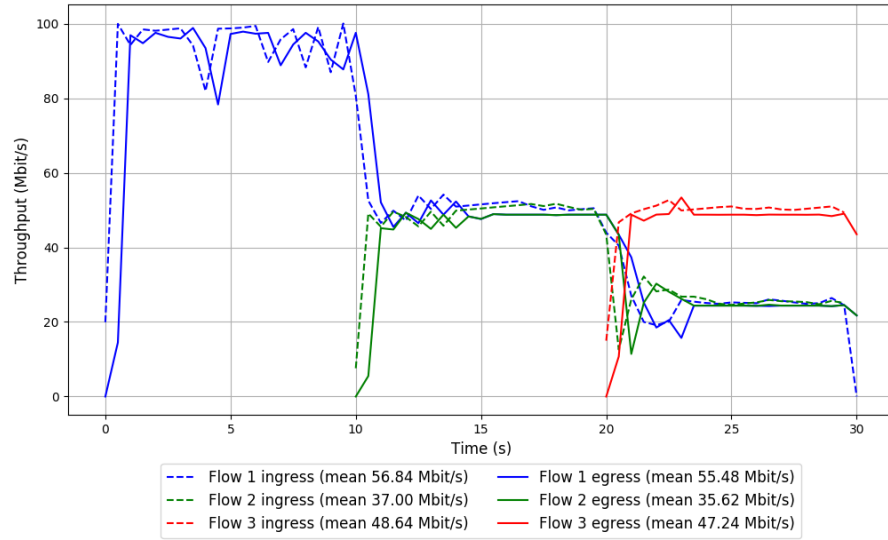
-- Flow 3:

Average throughput: 47.24 Mbit/s

95th percentile per-packet one-way delay: 55.130 ms

Loss rate: 3.62%

# Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-07-18 10:59:20

End at: 2018-07-18 10:59:50

Local clock offset: 0.186 ms

Remote clock offset: 3.0 ms

# Below is generated by plot.py at 2018-07-18 13:02:22

# Datalink statistics

-- Total of 3 flows:

Average throughput: 94.91 Mbit/s

95th percentile per-packet one-way delay: 64.542 ms

Loss rate: 2.40%

-- Flow 1:

Average throughput: 57.69 Mbit/s

95th percentile per-packet one-way delay: 63.721 ms

Loss rate: 2.12%

-- Flow 2:

Average throughput: 40.35 Mbit/s

95th percentile per-packet one-way delay: 64.493 ms

Loss rate: 2.78%

-- Flow 3:

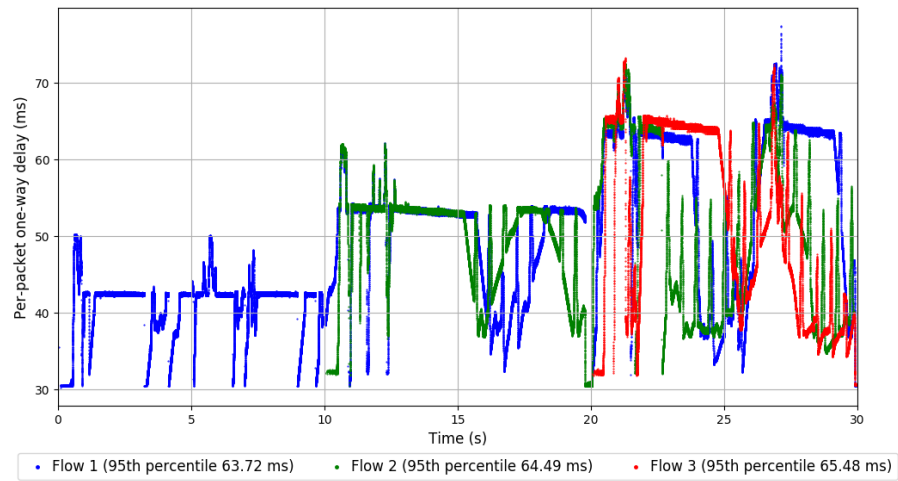
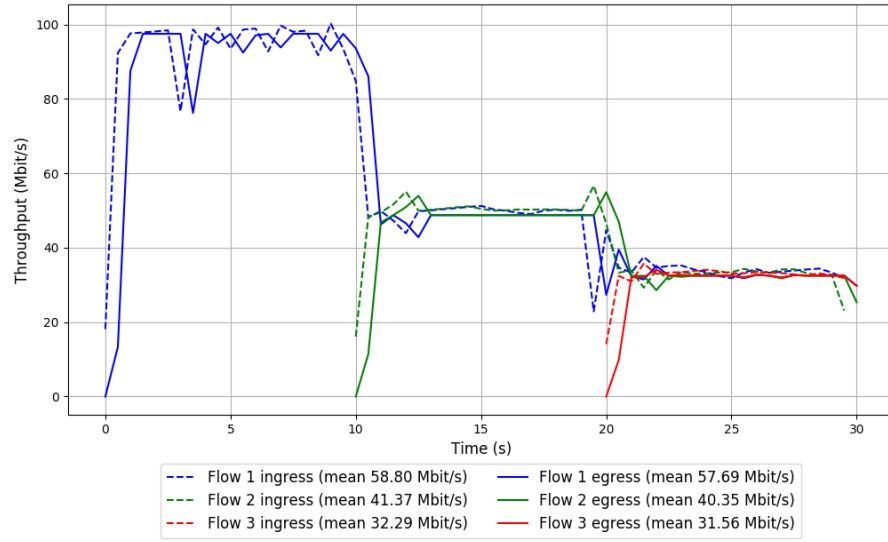
Average throughput: 31.56 Mbit/s

95th percentile per-packet one-way delay: 65.477 ms

Loss rate: 2.92%



# Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-07-18 11:22:58

End at: 2018-07-18 11:23:28

Local clock offset: 0.107 ms

Remote clock offset: 3.304 ms

# Below is generated by plot.py at 2018-07-18 13:02:22

# Datalink statistics

-- Total of 3 flows:

Average throughput: 94.68 Mbit/s

95th percentile per-packet one-way delay: 74.151 ms

Loss rate: 3.19%

-- Flow 1:

Average throughput: 62.45 Mbit/s

95th percentile per-packet one-way delay: 53.574 ms

Loss rate: 2.57%

-- Flow 2:

Average throughput: 36.69 Mbit/s

95th percentile per-packet one-way delay: 74.917 ms

Loss rate: 3.78%

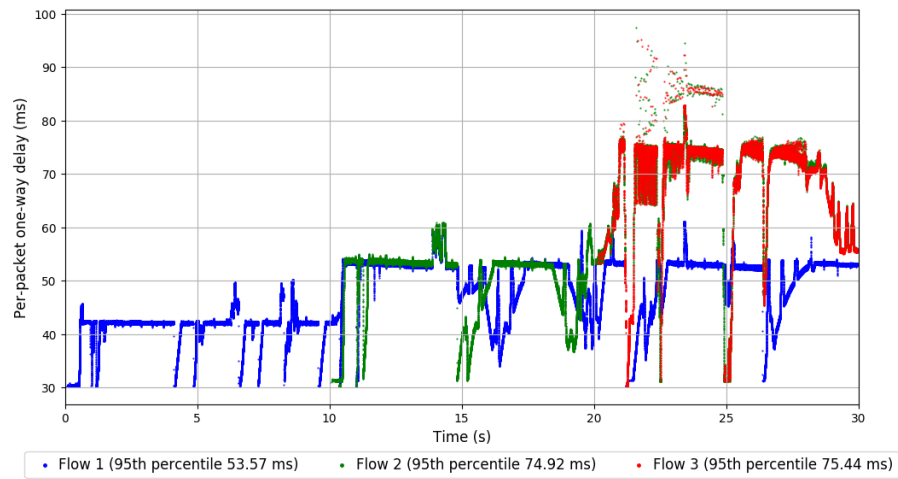
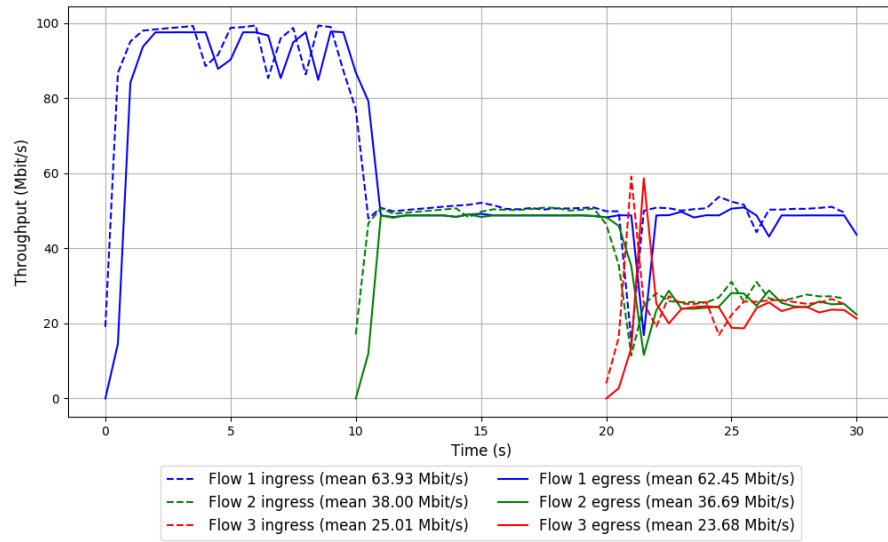
-- Flow 3:

Average throughput: 23.68 Mbit/s

95th percentile per-packet one-way delay: 75.443 ms

Loss rate: 6.16%

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



Run 7: Statistics of TCP BBR

Start at: 2018-07-18 11:46:30

End at: 2018-07-18 11:47:00

Local clock offset: 0.136 ms

Remote clock offset: 3.118 ms

# Below is generated by plot.py at 2018-07-18 13:02:22

# Datalink statistics

-- Total of 3 flows:

Average throughput: 94.30 Mbit/s

95th percentile per-packet one-way delay: 72.322 ms

Loss rate: 2.88%

-- Flow 1:

Average throughput: 55.01 Mbit/s

95th percentile per-packet one-way delay: 56.823 ms

Loss rate: 2.08%

-- Flow 2:

Average throughput: 35.61 Mbit/s

95th percentile per-packet one-way delay: 74.996 ms

Loss rate: 4.41%

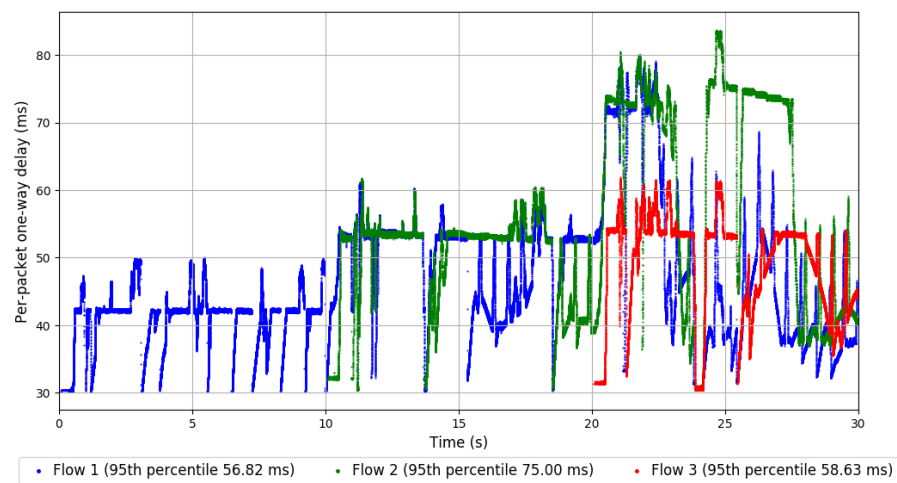
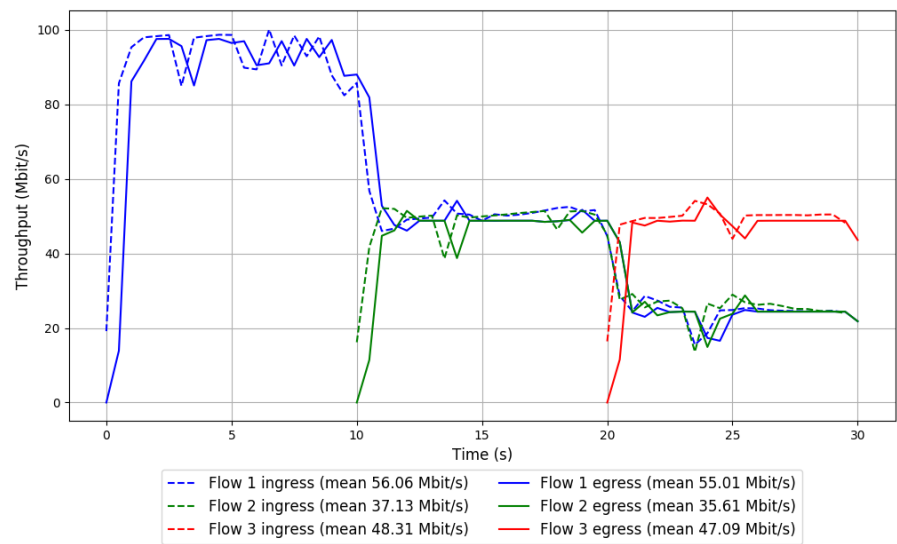
-- Flow 3:

Average throughput: 47.09 Mbit/s

95th percentile per-packet one-way delay: 58.626 ms

Loss rate: 3.28%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-07-18 12:10:12

End at: 2018-07-18 12:10:42

Local clock offset: -3.386 ms

Remote clock offset: 1.758 ms

# Below is generated by plot.py at 2018-07-18 13:02:22

# Datalink statistics

-- Total of 3 flows:

Average throughput: 94.50 Mbit/s

95th percentile per-packet one-way delay: 63.511 ms

Loss rate: 2.85%

-- Flow 1:

Average throughput: 57.53 Mbit/s

95th percentile per-packet one-way delay: 55.128 ms

Loss rate: 2.02%

-- Flow 2:

Average throughput: 39.88 Mbit/s

95th percentile per-packet one-way delay: 62.144 ms

Loss rate: 4.25%

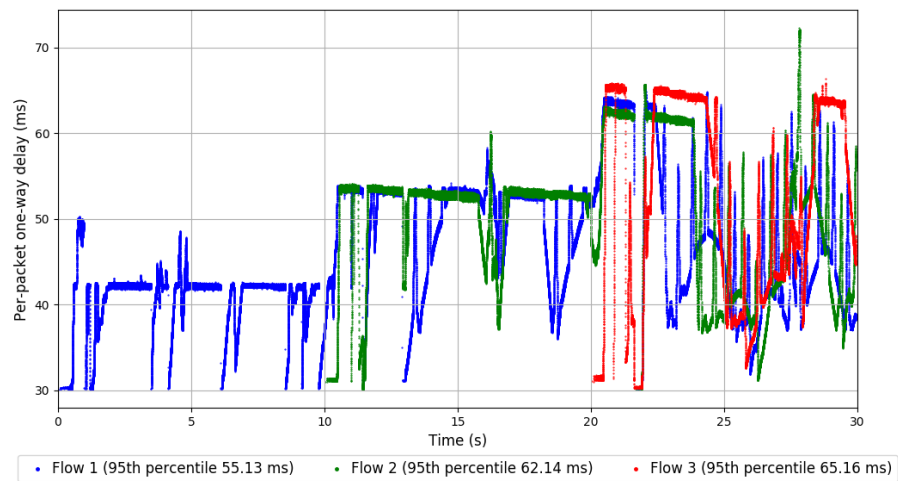
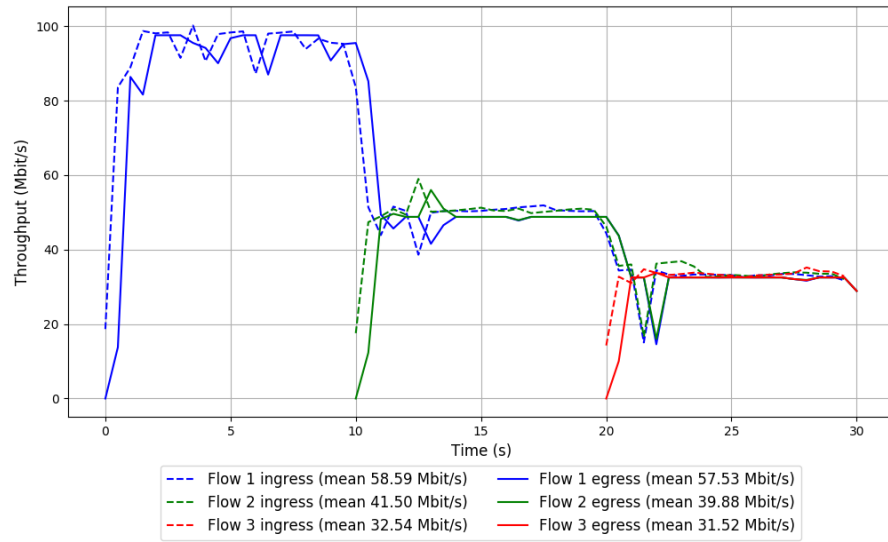
-- Flow 3:

Average throughput: 31.52 Mbit/s

95th percentile per-packet one-way delay: 65.159 ms

Loss rate: 3.77%

# Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-07-18 12:33:33

End at: 2018-07-18 12:34:03

Local clock offset: -4.465 ms

Remote clock offset: 1.216 ms

# Below is generated by plot.py at 2018-07-18 13:03:12

# Datalink statistics

-- Total of 3 flows:

Average throughput: 94.55 Mbit/s

95th percentile per-packet one-way delay: 63.819 ms

Loss rate: 2.35%

-- Flow 1:

Average throughput: 57.66 Mbit/s

95th percentile per-packet one-way delay: 62.812 ms

Loss rate: 2.00%

-- Flow 2:

Average throughput: 39.63 Mbit/s

95th percentile per-packet one-way delay: 62.605 ms

Loss rate: 2.85%

-- Flow 3:

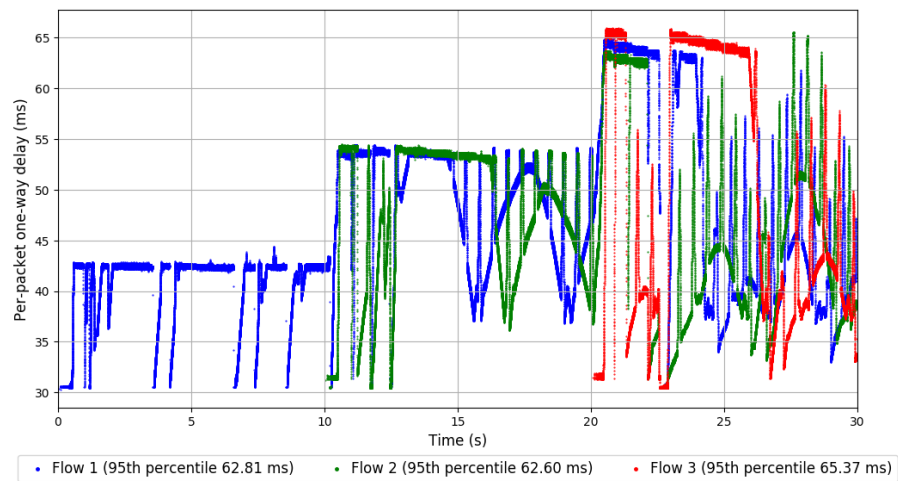
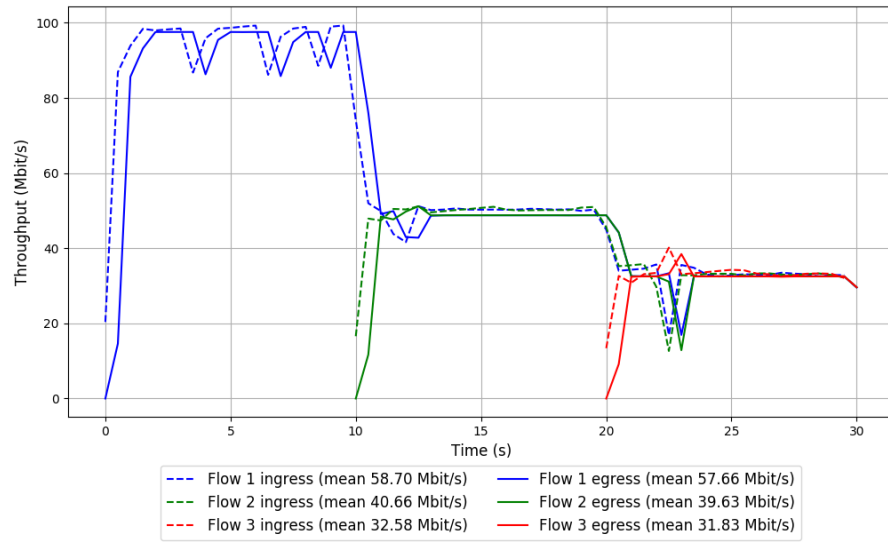
Average throughput: 31.83 Mbit/s

95th percentile per-packet one-way delay: 65.371 ms

Loss rate: 2.94%



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



Run 10: Statistics of TCP BBR

Start at: 2018-07-18 12:56:58

End at: 2018-07-18 12:57:28

Local clock offset: -1.011 ms

Remote clock offset: 2.826 ms

# Below is generated by plot.py at 2018-07-18 13:03:13

# Datalink statistics

-- Total of 3 flows:

Average throughput: 94.68 Mbit/s

95th percentile per-packet one-way delay: 53.829 ms

Loss rate: 2.09%

-- Flow 1:

Average throughput: 62.54 Mbit/s

95th percentile per-packet one-way delay: 53.466 ms

Loss rate: 1.98%

-- Flow 2:

Average throughput: 36.53 Mbit/s

95th percentile per-packet one-way delay: 74.085 ms

Loss rate: 2.23%

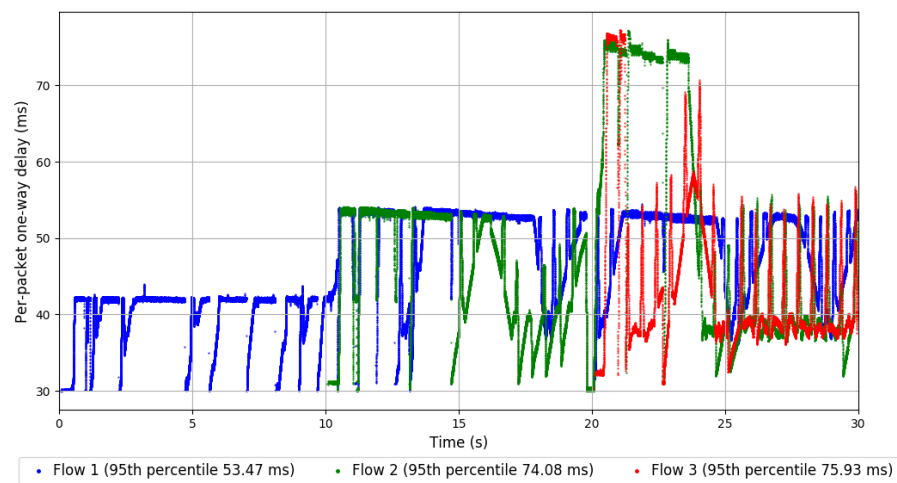
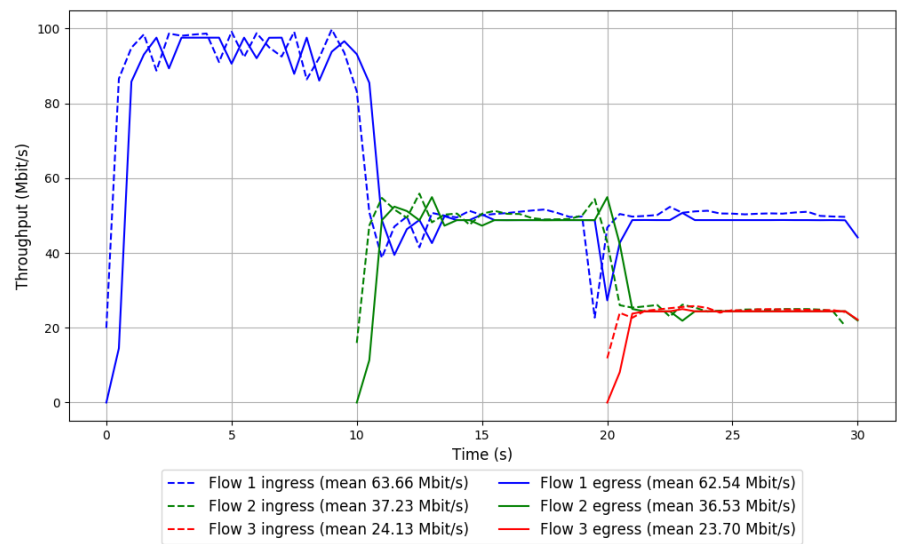
-- Flow 3:

Average throughput: 23.70 Mbit/s

95th percentile per-packet one-way delay: 75.931 ms

Loss rate: 2.47%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2018-07-18 09:20:01

End at: 2018-07-18 09:20:31

Local clock offset: 0.337 ms

Remote clock offset: 3.39 ms

# Below is generated by plot.py at 2018-07-18 13:04:07

# Datalink statistics

-- Total of 3 flows:

Average throughput: 88.84 Mbit/s

95th percentile per-packet one-way delay: 44.852 ms

Loss rate: 0.33%

-- Flow 1:

Average throughput: 52.68 Mbit/s

95th percentile per-packet one-way delay: 40.797 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 38.43 Mbit/s

95th percentile per-packet one-way delay: 48.580 ms

Loss rate: 0.24%

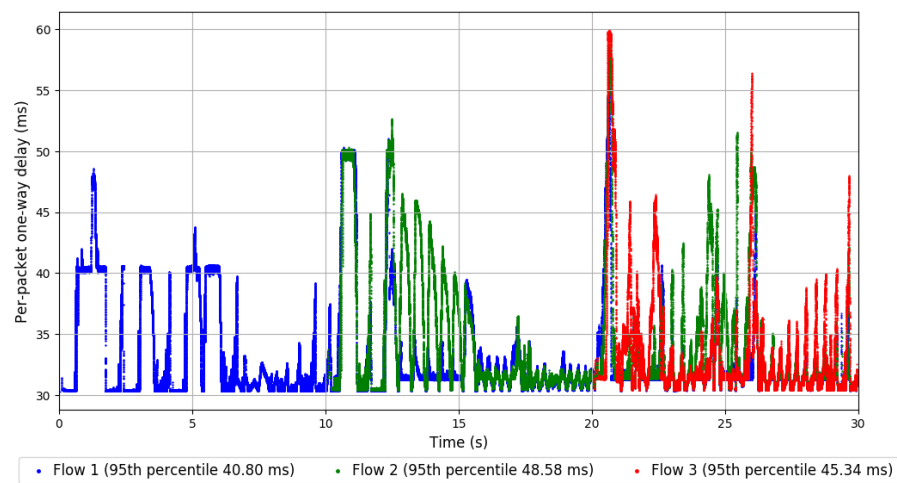
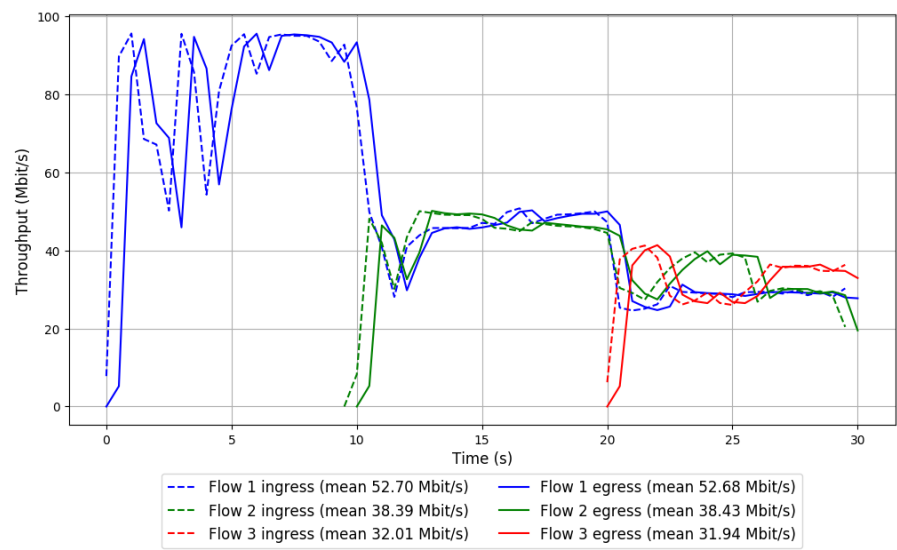
-- Flow 3:

Average throughput: 31.94 Mbit/s

95th percentile per-packet one-way delay: 45.341 ms

Loss rate: 0.90%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-07-18 09:43:07

End at: 2018-07-18 09:43:37

Local clock offset: 0.282 ms

Remote clock offset: 3.735 ms

# Below is generated by plot.py at 2018-07-18 13:04:07

# Datalink statistics

-- Total of 3 flows:

Average throughput: 85.21 Mbit/s

95th percentile per-packet one-way delay: 40.903 ms

Loss rate: 0.25%

-- Flow 1:

Average throughput: 56.95 Mbit/s

95th percentile per-packet one-way delay: 40.920 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 30.22 Mbit/s

95th percentile per-packet one-way delay: 38.157 ms

Loss rate: 0.52%

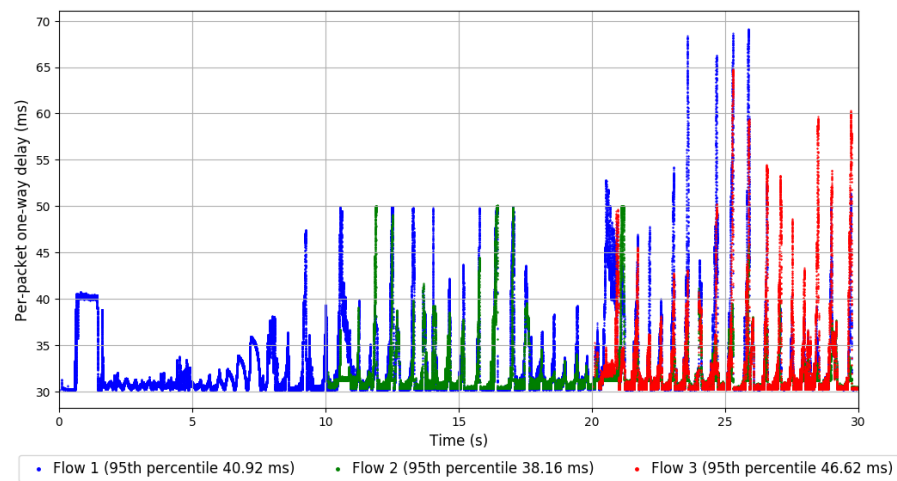
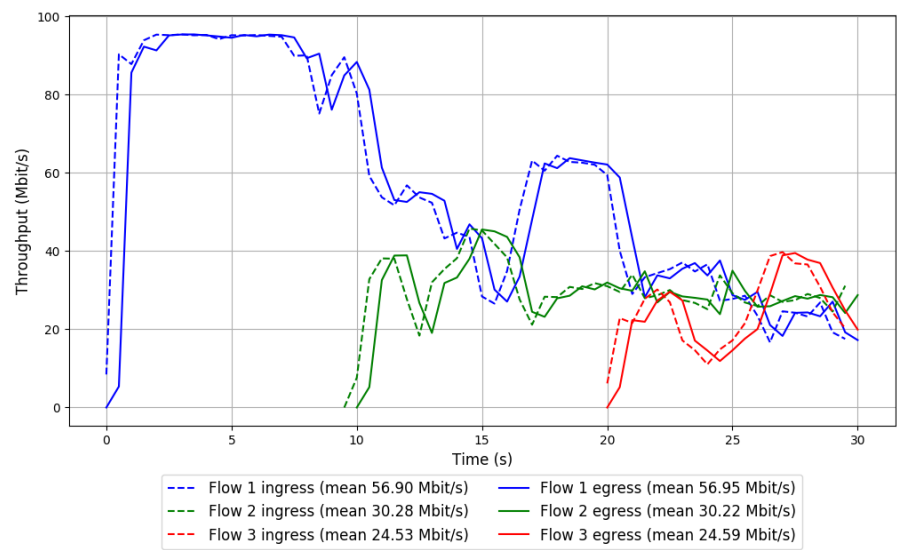
-- Flow 3:

Average throughput: 24.59 Mbit/s

95th percentile per-packet one-way delay: 46.618 ms

Loss rate: 0.40%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-07-18 10:06:33

End at: 2018-07-18 10:07:03

Local clock offset: 0.294 ms

Remote clock offset: 3.647 ms

# Below is generated by plot.py at 2018-07-18 13:04:07

# Datalink statistics

-- Total of 3 flows:

Average throughput: 86.70 Mbit/s

95th percentile per-packet one-way delay: 42.054 ms

Loss rate: 0.42%

-- Flow 1:

Average throughput: 52.40 Mbit/s

95th percentile per-packet one-way delay: 41.403 ms

Loss rate: 0.45%

-- Flow 2:

Average throughput: 42.45 Mbit/s

95th percentile per-packet one-way delay: 43.672 ms

Loss rate: 0.21%

-- Flow 3:

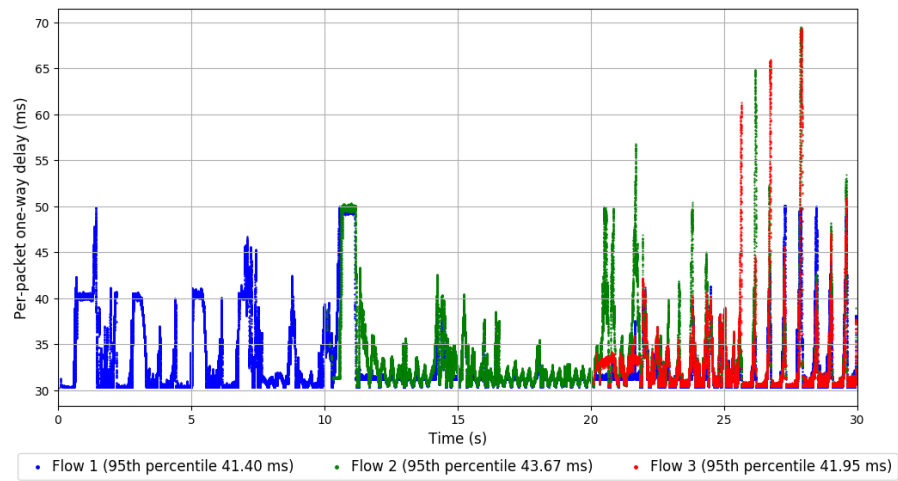
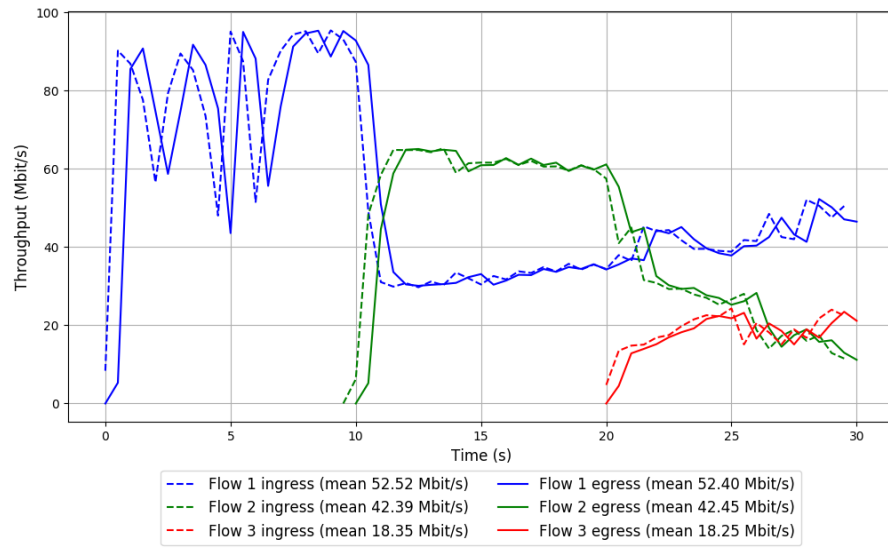
Average throughput: 18.25 Mbit/s

95th percentile per-packet one-way delay: 41.949 ms

Loss rate: 1.20%



### Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-07-18 10:30:22

End at: 2018-07-18 10:30:52

Local clock offset: 0.09 ms

Remote clock offset: 3.7 ms

# Below is generated by plot.py at 2018-07-18 13:04:07

# Datalink statistics

-- Total of 3 flows:

Average throughput: 83.66 Mbit/s

95th percentile per-packet one-way delay: 41.480 ms

Loss rate: 0.34%

-- Flow 1:

Average throughput: 51.88 Mbit/s

95th percentile per-packet one-way delay: 43.115 ms

Loss rate: 0.31%

-- Flow 2:

Average throughput: 38.97 Mbit/s

95th percentile per-packet one-way delay: 39.596 ms

Loss rate: 0.28%

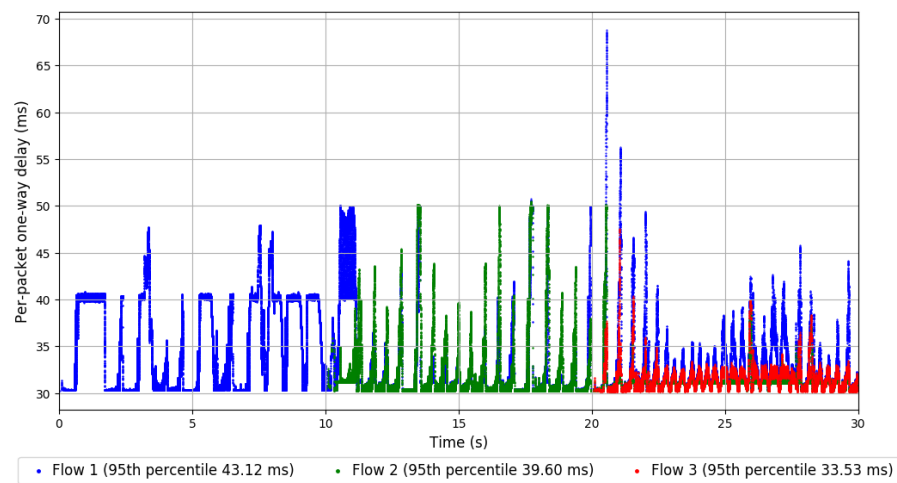
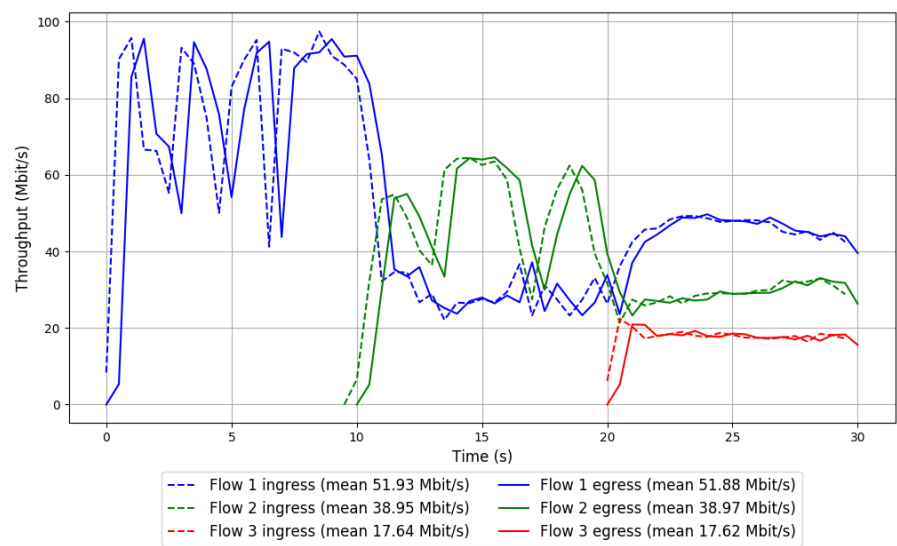
-- Flow 3:

Average throughput: 17.62 Mbit/s

95th percentile per-packet one-way delay: 33.535 ms

Loss rate: 0.78%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-07-18 10:53:48

End at: 2018-07-18 10:54:18

Local clock offset: 0.11 ms

Remote clock offset: 2.965 ms

# Below is generated by plot.py at 2018-07-18 13:04:07

# Datalink statistics

-- Total of 3 flows:

Average throughput: 81.62 Mbit/s

95th percentile per-packet one-way delay: 40.542 ms

Loss rate: 0.41%

-- Flow 1:

Average throughput: 49.52 Mbit/s

95th percentile per-packet one-way delay: 40.603 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 34.34 Mbit/s

95th percentile per-packet one-way delay: 41.982 ms

Loss rate: 0.51%

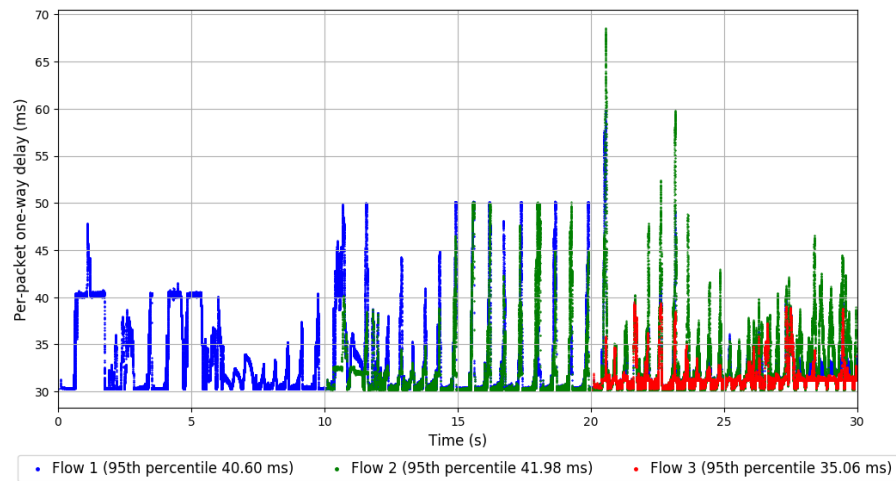
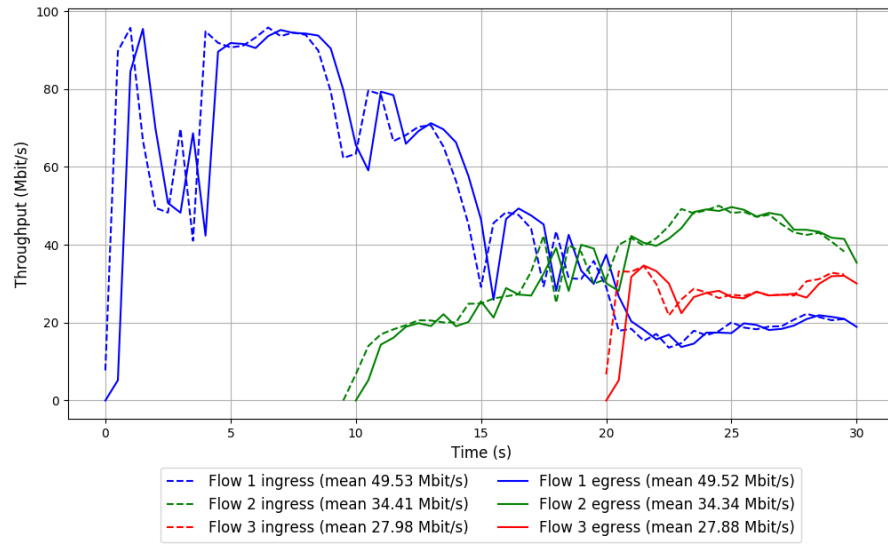
-- Flow 3:

Average throughput: 27.88 Mbit/s

95th percentile per-packet one-way delay: 35.060 ms

Loss rate: 0.99%

## Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-07-18 11:17:23

End at: 2018-07-18 11:17:53

Local clock offset: 0.224 ms

Remote clock offset: 3.282 ms

# Below is generated by plot.py at 2018-07-18 13:04:07

# Datalink statistics

-- Total of 3 flows:

Average throughput: 76.30 Mbit/s

95th percentile per-packet one-way delay: 46.822 ms

Loss rate: 0.36%

-- Flow 1:

Average throughput: 46.41 Mbit/s

95th percentile per-packet one-way delay: 45.067 ms

Loss rate: 0.32%

-- Flow 2:

Average throughput: 33.99 Mbit/s

95th percentile per-packet one-way delay: 47.068 ms

Loss rate: 0.35%

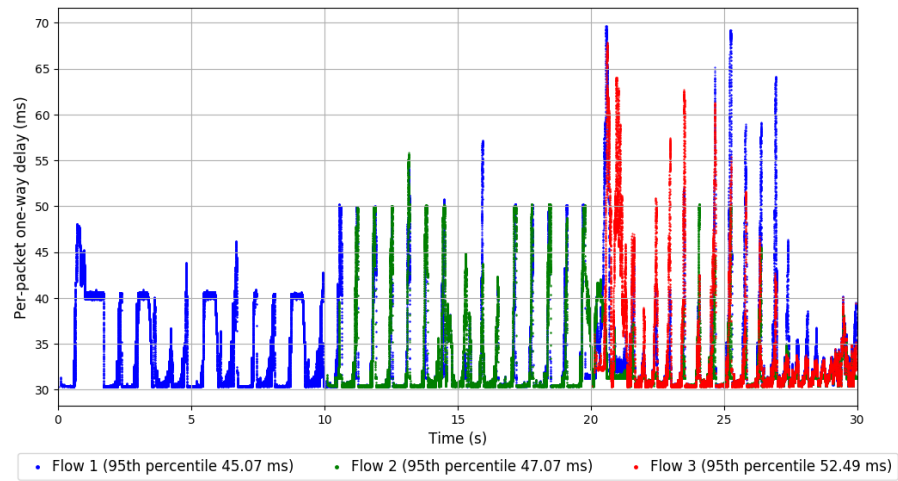
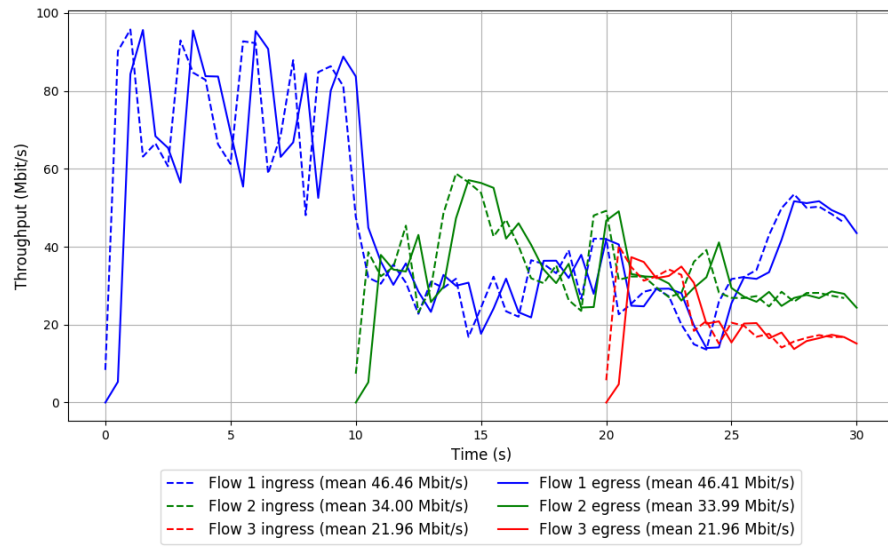
-- Flow 3:

Average throughput: 21.96 Mbit/s

95th percentile per-packet one-way delay: 52.492 ms

Loss rate: 0.65%

## Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-07-18 11:40:57

End at: 2018-07-18 11:41:27

Local clock offset: 0.141 ms

Remote clock offset: 3.385 ms

# Below is generated by plot.py at 2018-07-18 13:05:03

# Datalink statistics

-- Total of 3 flows:

Average throughput: 80.61 Mbit/s

95th percentile per-packet one-way delay: 44.493 ms

Loss rate: 0.37%

-- Flow 1:

Average throughput: 45.35 Mbit/s

95th percentile per-packet one-way delay: 44.411 ms

Loss rate: 0.24%

-- Flow 2:

Average throughput: 38.96 Mbit/s

95th percentile per-packet one-way delay: 43.676 ms

Loss rate: 0.32%

-- Flow 3:

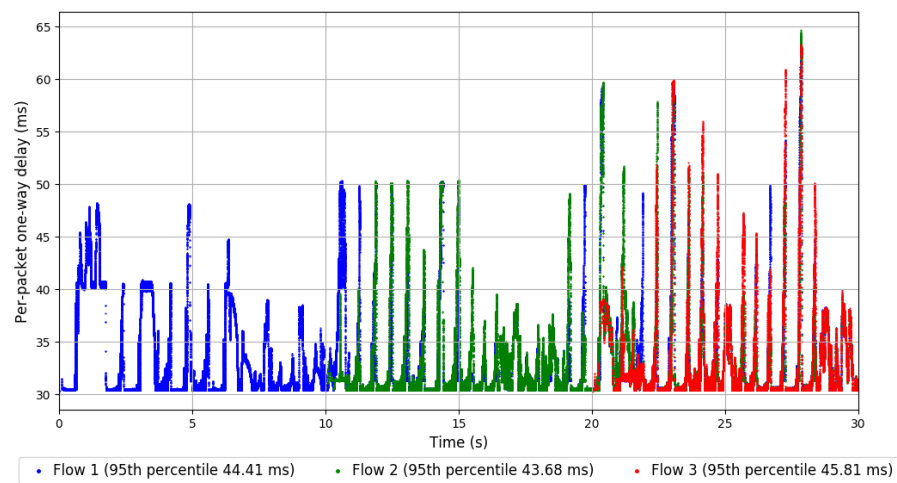
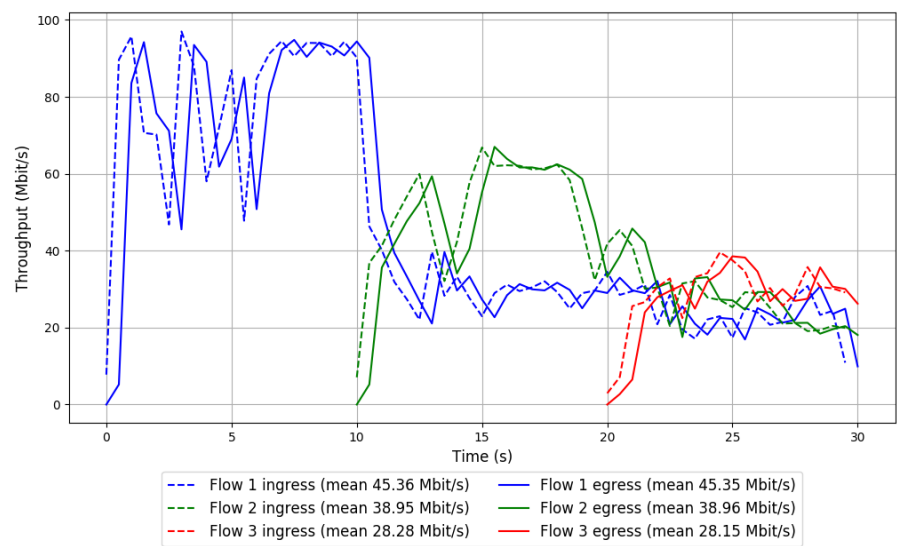
Average throughput: 28.15 Mbit/s

95th percentile per-packet one-way delay: 45.808 ms

Loss rate: 1.10%



Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-07-18 12:04:35

End at: 2018-07-18 12:05:05

Local clock offset: -2.895 ms

Remote clock offset: 2.136 ms

# Below is generated by plot.py at 2018-07-18 13:05:06

# Datalink statistics

-- Total of 3 flows:

Average throughput: 81.80 Mbit/s

95th percentile per-packet one-way delay: 43.894 ms

Loss rate: 0.37%

-- Flow 1:

Average throughput: 48.40 Mbit/s

95th percentile per-packet one-way delay: 43.539 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 35.40 Mbit/s

95th percentile per-packet one-way delay: 48.847 ms

Loss rate: 0.45%

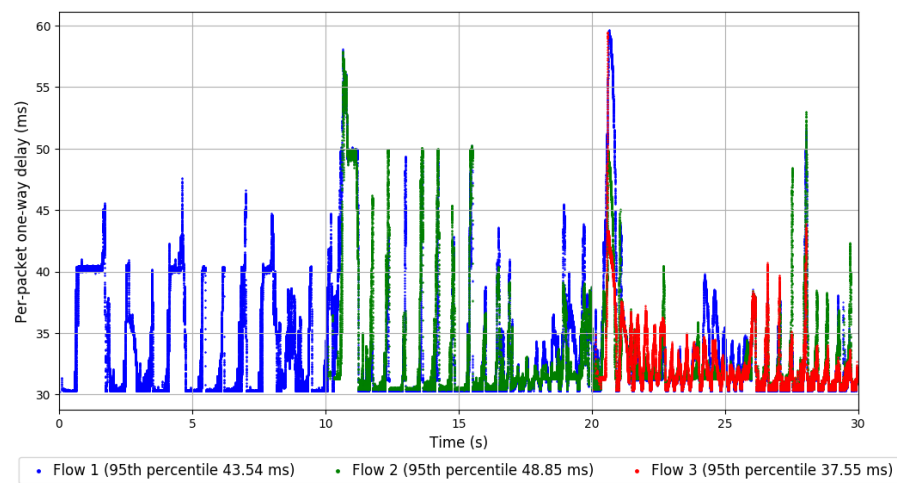
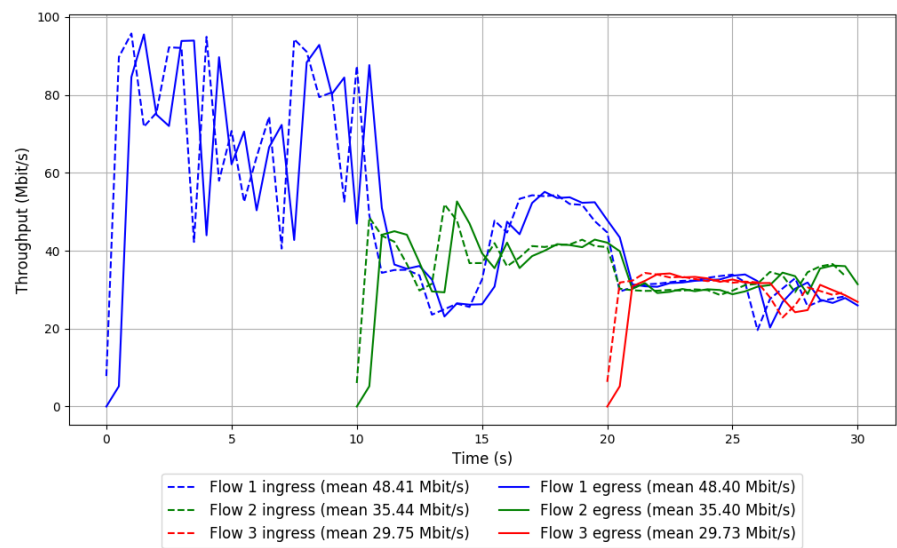
-- Flow 3:

Average throughput: 29.73 Mbit/s

95th percentile per-packet one-way delay: 37.545 ms

Loss rate: 0.74%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-07-18 12:28:04

End at: 2018-07-18 12:28:34

Local clock offset: -4.227 ms

Remote clock offset: 1.387 ms

# Below is generated by plot.py at 2018-07-18 13:05:40

# Datalink statistics

-- Total of 3 flows:

Average throughput: 82.75 Mbit/s

95th percentile per-packet one-way delay: 42.008 ms

Loss rate: 0.19%

-- Flow 1:

Average throughput: 51.78 Mbit/s

95th percentile per-packet one-way delay: 40.432 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 37.57 Mbit/s

95th percentile per-packet one-way delay: 45.958 ms

Loss rate: 0.23%

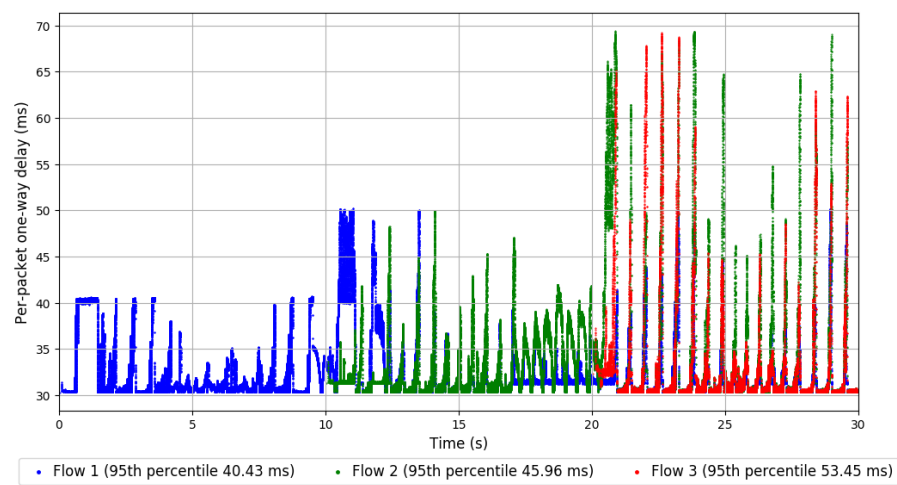
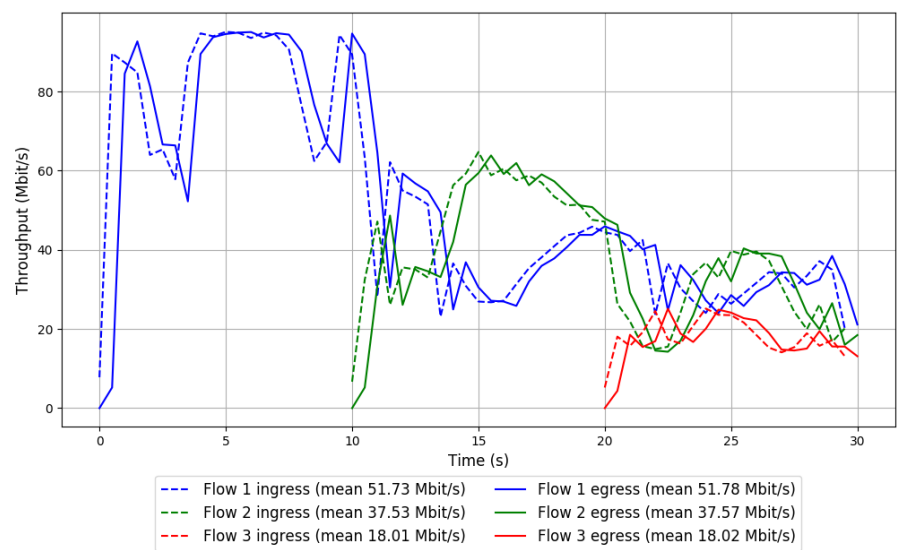
-- Flow 3:

Average throughput: 18.02 Mbit/s

95th percentile per-packet one-way delay: 53.451 ms

Loss rate: 0.65%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-07-18 12:51:25

End at: 2018-07-18 12:51:55

Local clock offset: -2.836 ms

Remote clock offset: 1.964 ms

# Below is generated by plot.py at 2018-07-18 13:05:52

# Datalink statistics

-- Total of 3 flows:

Average throughput: 85.39 Mbit/s

95th percentile per-packet one-way delay: 44.816 ms

Loss rate: 0.28%

-- Flow 1:

Average throughput: 53.84 Mbit/s

95th percentile per-packet one-way delay: 43.159 ms

Loss rate: 0.15%

-- Flow 2:

Average throughput: 32.01 Mbit/s

95th percentile per-packet one-way delay: 48.093 ms

Loss rate: 0.38%

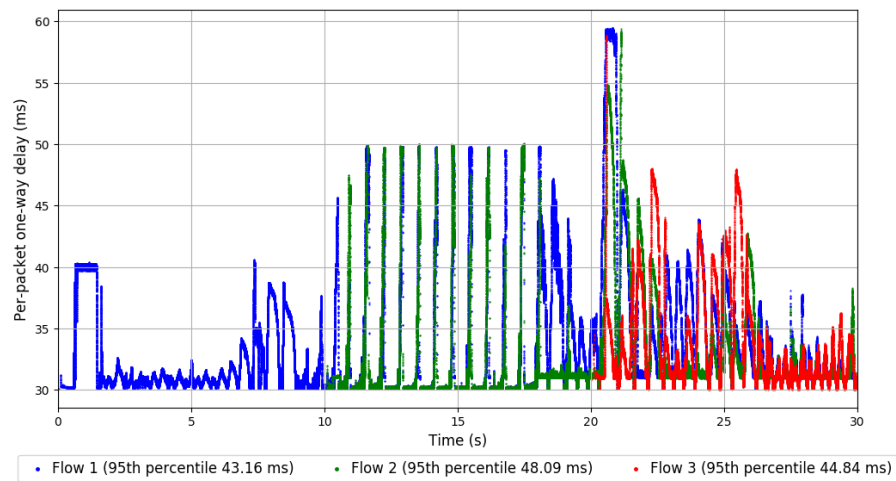
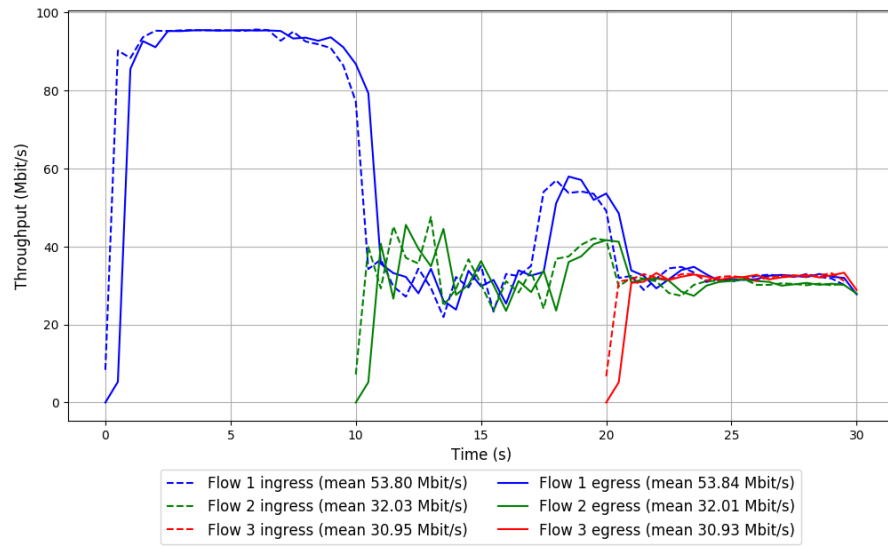
-- Flow 3:

Average throughput: 30.93 Mbit/s

95th percentile per-packet one-way delay: 44.840 ms

Loss rate: 0.73%

## Run 10: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-07-18 09:21:27

End at: 2018-07-18 09:21:57

Local clock offset: 0.23 ms

Remote clock offset: 3.464 ms

# Below is generated by plot.py at 2018-07-18 13:05:52

# Datalink statistics

-- Total of 3 flows:

Average throughput: 48.69 Mbit/s

95th percentile per-packet one-way delay: 37.811 ms

Loss rate: 0.47%

-- Flow 1:

Average throughput: 30.13 Mbit/s

95th percentile per-packet one-way delay: 37.824 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 17.16 Mbit/s

95th percentile per-packet one-way delay: 36.296 ms

Loss rate: 0.57%

-- Flow 3:

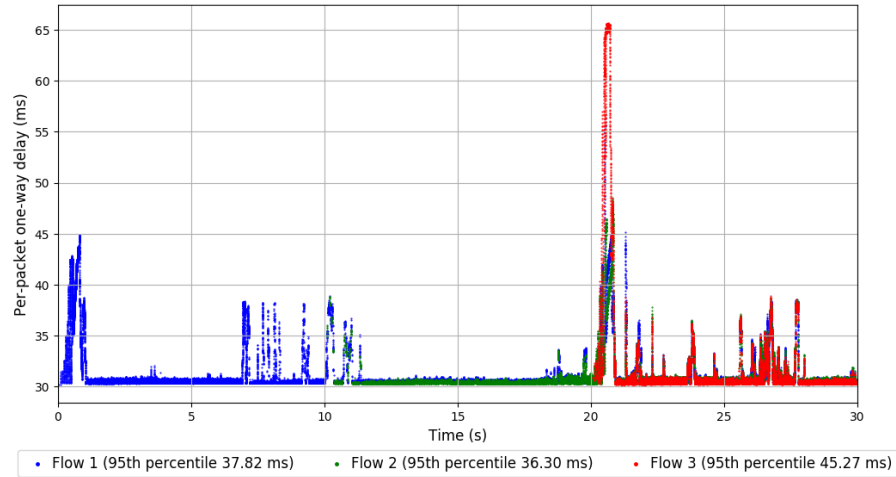
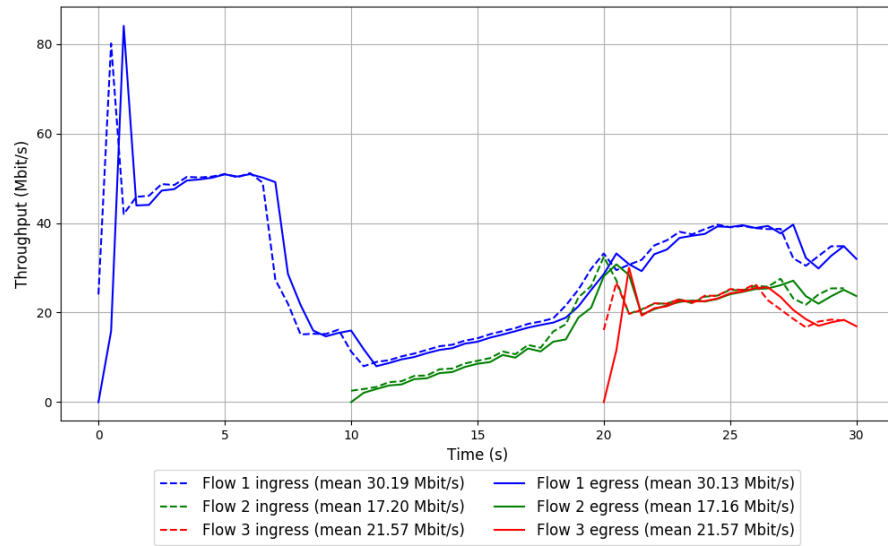
Average throughput: 21.57 Mbit/s

95th percentile per-packet one-way delay: 45.274 ms

Loss rate: 0.65%



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



Run 2: Statistics of TCP Cubic

Start at: 2018-07-18 09:44:33

End at: 2018-07-18 09:45:03

Local clock offset: 0.29 ms

Remote clock offset: 3.73 ms

# Below is generated by plot.py at 2018-07-18 13:05:52

# Datalink statistics

-- Total of 3 flows:

Average throughput: 62.16 Mbit/s

95th percentile per-packet one-way delay: 37.809 ms

Loss rate: 0.32%

-- Flow 1:

Average throughput: 36.76 Mbit/s

95th percentile per-packet one-way delay: 37.542 ms

Loss rate: 0.15%

-- Flow 2:

Average throughput: 23.25 Mbit/s

95th percentile per-packet one-way delay: 37.509 ms

Loss rate: 0.33%

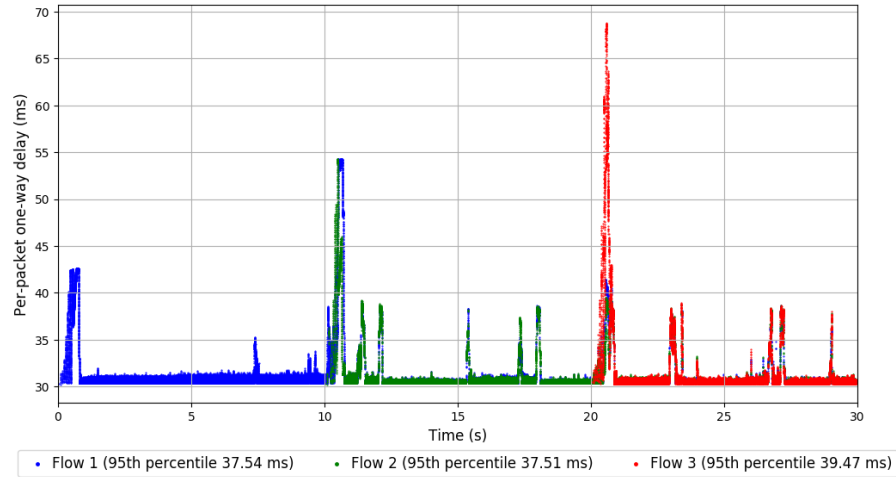
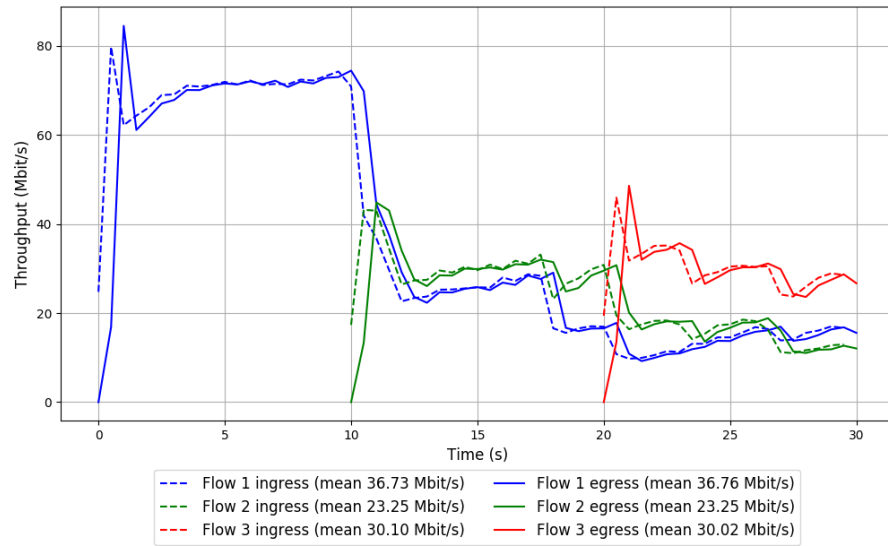
-- Flow 3:

Average throughput: 30.02 Mbit/s

95th percentile per-packet one-way delay: 39.468 ms

Loss rate: 0.93%

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



Run 3: Statistics of TCP Cubic

Start at: 2018-07-18 10:08:05

End at: 2018-07-18 10:08:35

Local clock offset: 0.31 ms

Remote clock offset: 3.632 ms

# Below is generated by plot.py at 2018-07-18 13:05:52

# Datalink statistics

-- Total of 3 flows:

Average throughput: 81.81 Mbit/s

95th percentile per-packet one-way delay: 37.931 ms

Loss rate: 0.30%

-- Flow 1:

Average throughput: 46.53 Mbit/s

95th percentile per-packet one-way delay: 37.346 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 40.31 Mbit/s

95th percentile per-packet one-way delay: 37.898 ms

Loss rate: 0.42%

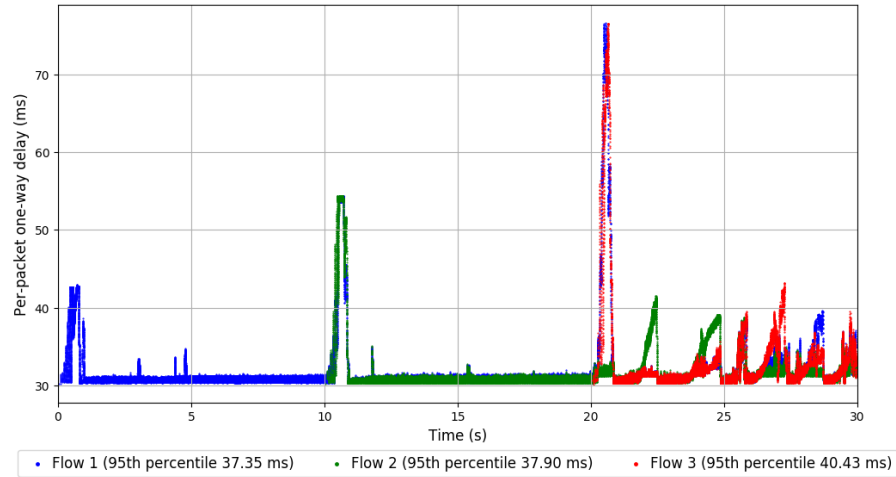
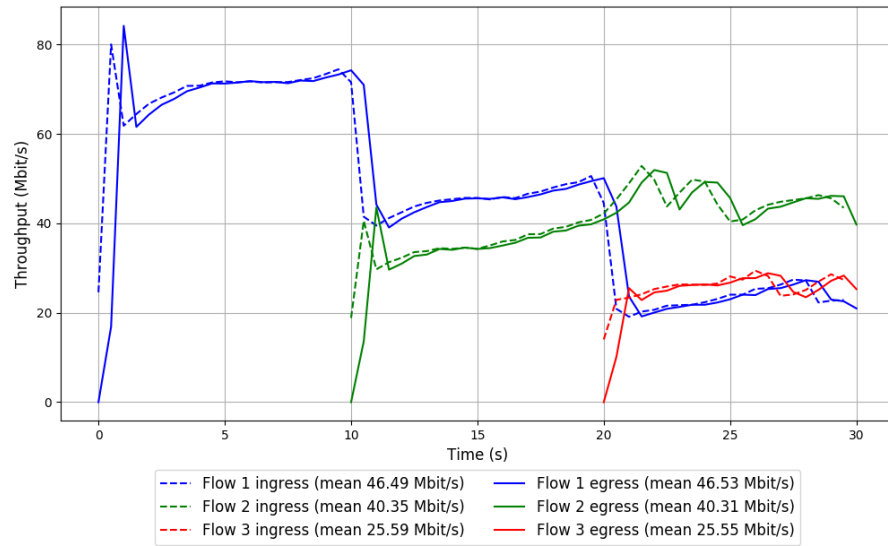
-- Flow 3:

Average throughput: 25.55 Mbit/s

95th percentile per-packet one-way delay: 40.431 ms

Loss rate: 0.80%

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



Run 4: Statistics of TCP Cubic

Start at: 2018-07-18 10:31:49

End at: 2018-07-18 10:32:19

Local clock offset: 0.179 ms

Remote clock offset: 3.65 ms

# Below is generated by plot.py at 2018-07-18 13:05:52

# Datalink statistics

-- Total of 3 flows:

Average throughput: 58.66 Mbit/s

95th percentile per-packet one-way delay: 37.607 ms

Loss rate: 0.36%

-- Flow 1:

Average throughput: 31.29 Mbit/s

95th percentile per-packet one-way delay: 36.784 ms

Loss rate: 0.21%

-- Flow 2:

Average throughput: 25.18 Mbit/s

95th percentile per-packet one-way delay: 37.924 ms

Loss rate: 0.39%

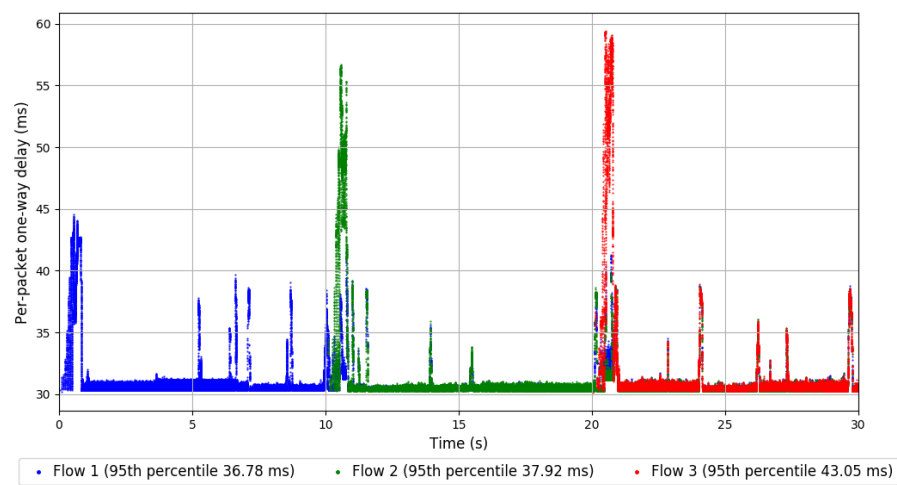
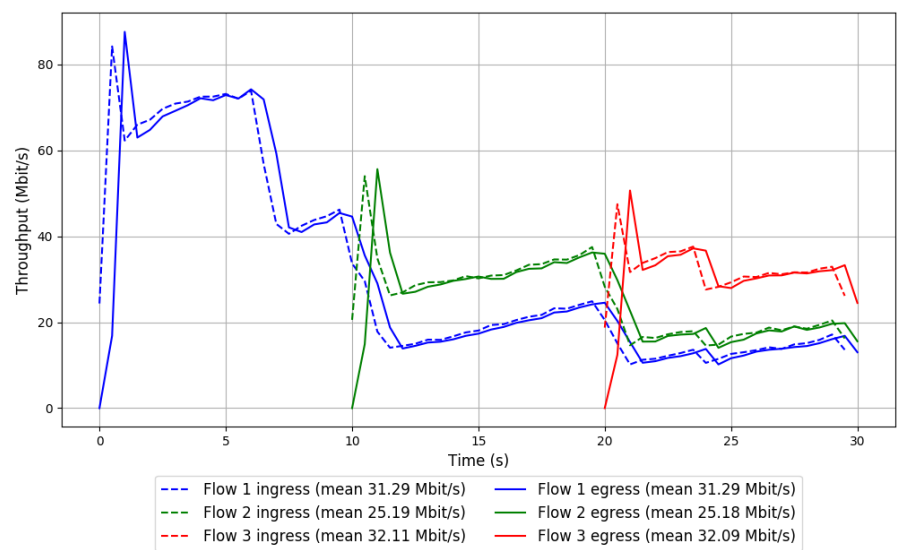
-- Flow 3:

Average throughput: 32.09 Mbit/s

95th percentile per-packet one-way delay: 43.050 ms

Loss rate: 0.73%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-07-18 10:55:14

End at: 2018-07-18 10:55:44

Local clock offset: 0.192 ms

Remote clock offset: 2.982 ms

# Below is generated by plot.py at 2018-07-18 13:05:52

# Datalink statistics

-- Total of 3 flows:

Average throughput: 58.46 Mbit/s

95th percentile per-packet one-way delay: 37.184 ms

Loss rate: 0.29%

-- Flow 1:

Average throughput: 36.83 Mbit/s

95th percentile per-packet one-way delay: 36.507 ms

Loss rate: 0.22%

-- Flow 2:

Average throughput: 22.97 Mbit/s

95th percentile per-packet one-way delay: 37.433 ms

Loss rate: 0.30%

-- Flow 3:

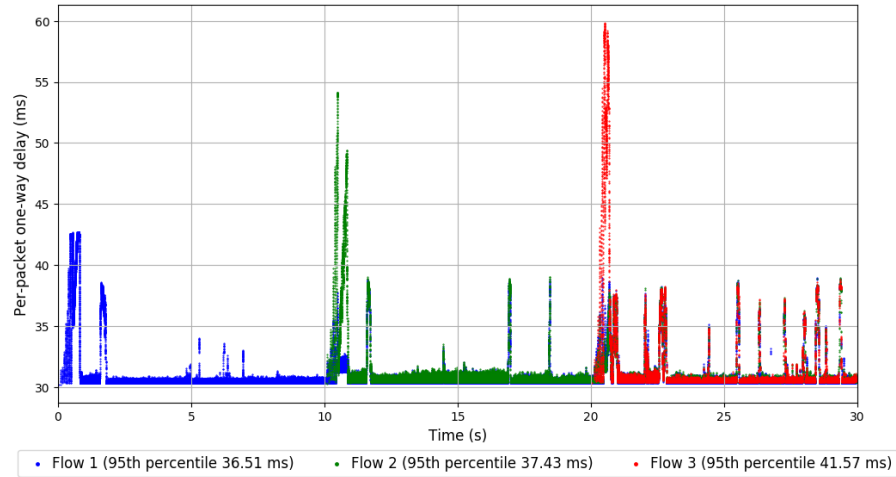
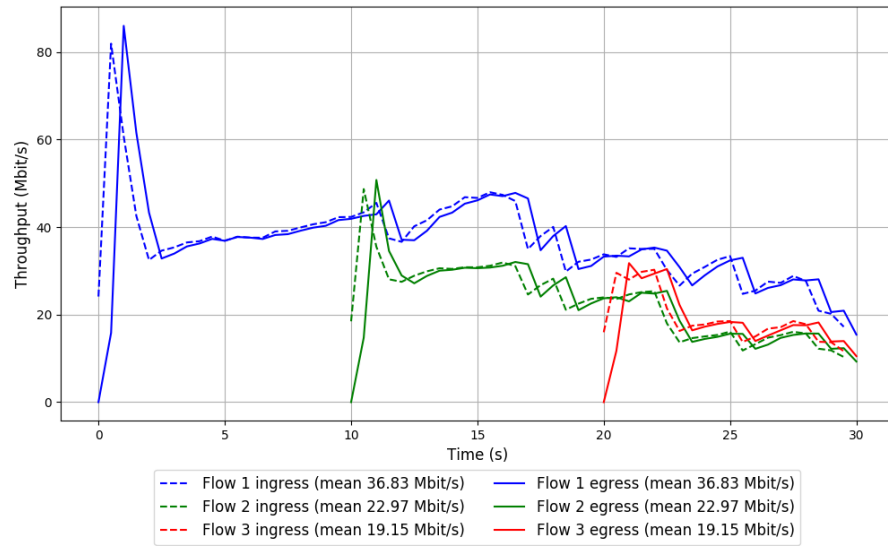
Average throughput: 19.15 Mbit/s

95th percentile per-packet one-way delay: 41.571 ms

Loss rate: 0.65%



# Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-07-18 11:18:47

End at: 2018-07-18 11:19:17

Local clock offset: 0.119 ms

Remote clock offset: 3.219 ms

# Below is generated by plot.py at 2018-07-18 13:05:52

# Datalink statistics

-- Total of 3 flows:

Average throughput: 73.24 Mbit/s

95th percentile per-packet one-way delay: 35.368 ms

Loss rate: 0.32%

-- Flow 1:

Average throughput: 45.02 Mbit/s

95th percentile per-packet one-way delay: 35.491 ms

Loss rate: 0.18%

-- Flow 2:

Average throughput: 30.29 Mbit/s

95th percentile per-packet one-way delay: 34.842 ms

Loss rate: 0.38%

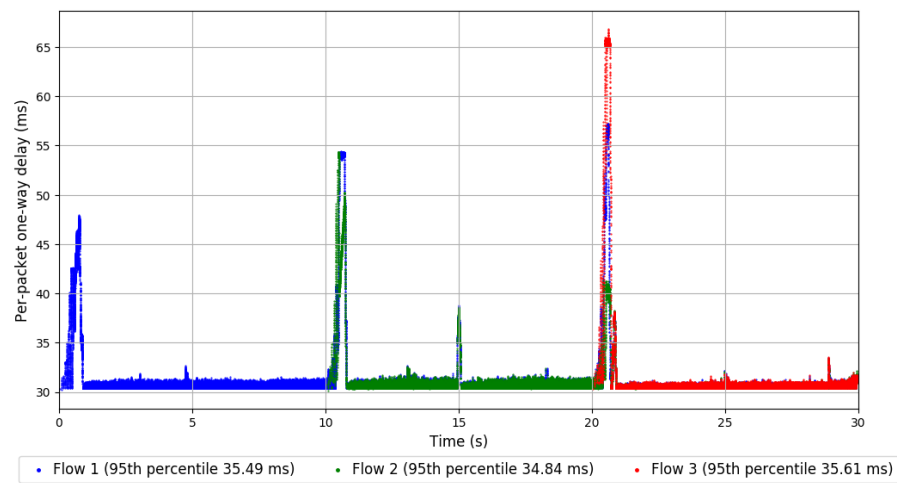
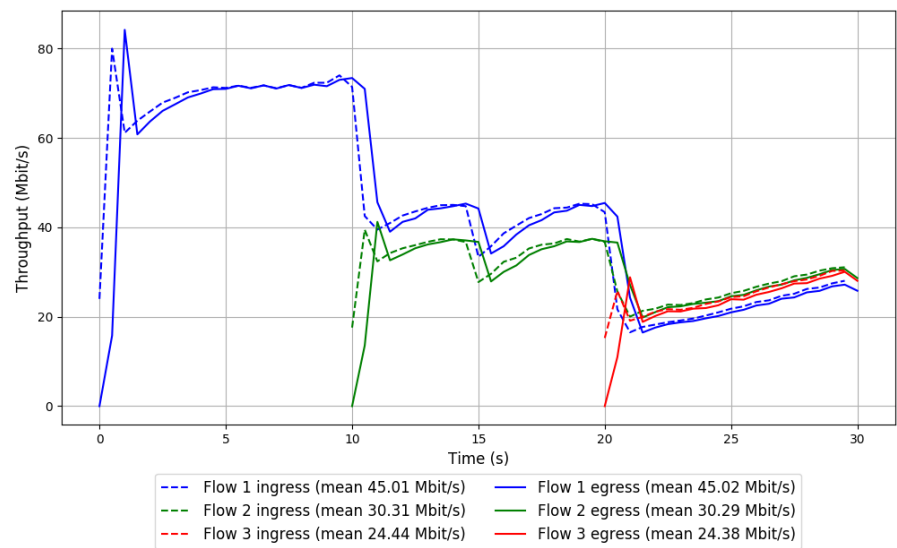
-- Flow 3:

Average throughput: 24.38 Mbit/s

95th percentile per-packet one-way delay: 35.607 ms

Loss rate: 0.92%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-07-18 11:42:23

End at: 2018-07-18 11:42:53

Local clock offset: 0.158 ms

Remote clock offset: 3.287 ms

# Below is generated by plot.py at 2018-07-18 13:05:52

# Datalink statistics

-- Total of 3 flows:

Average throughput: 62.62 Mbit/s

95th percentile per-packet one-way delay: 37.278 ms

Loss rate: 0.40%

-- Flow 1:

Average throughput: 33.05 Mbit/s

95th percentile per-packet one-way delay: 36.064 ms

Loss rate: 0.28%

-- Flow 2:

Average throughput: 26.53 Mbit/s

95th percentile per-packet one-way delay: 39.281 ms

Loss rate: 0.38%

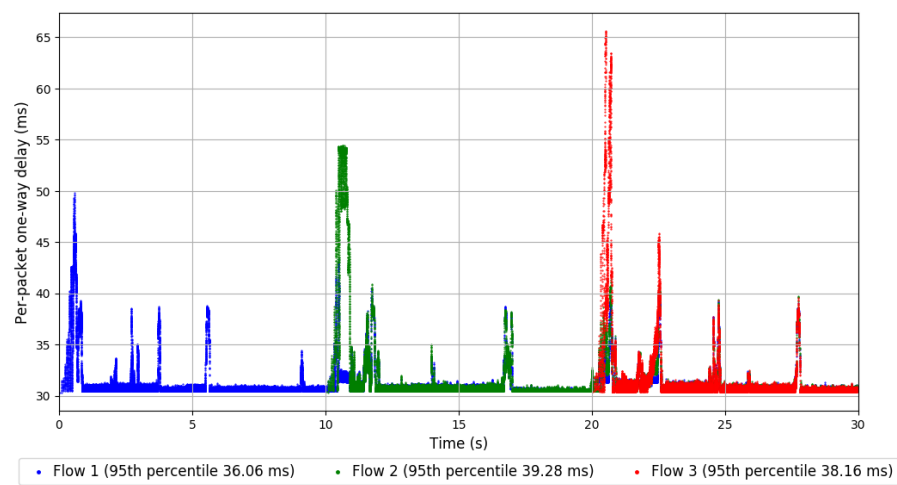
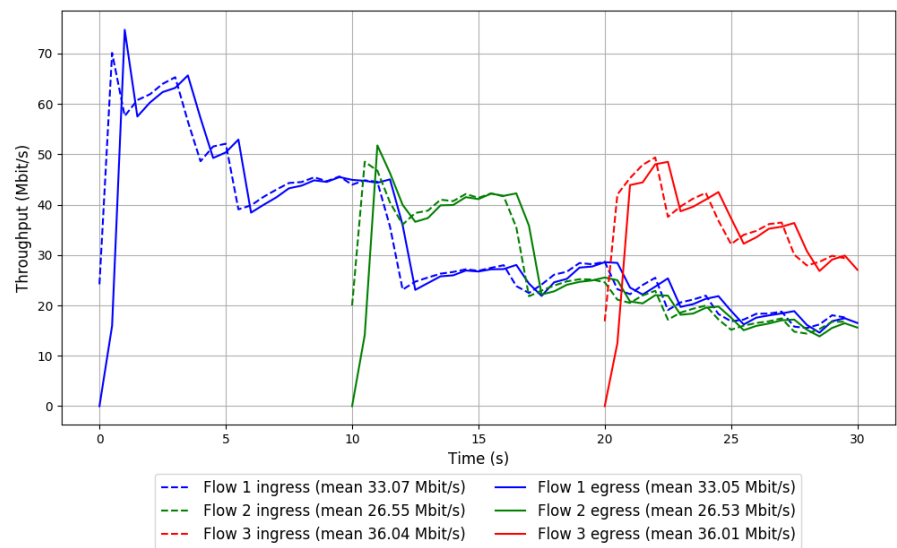
-- Flow 3:

Average throughput: 36.01 Mbit/s

95th percentile per-packet one-way delay: 38.157 ms

Loss rate: 0.74%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-07-18 12:06:05

End at: 2018-07-18 12:06:35

Local clock offset: -3.113 ms

Remote clock offset: 1.907 ms

# Below is generated by plot.py at 2018-07-18 13:06:00

# Datalink statistics

-- Total of 3 flows:

Average throughput: 81.91 Mbit/s

95th percentile per-packet one-way delay: 38.195 ms

Loss rate: 0.26%

-- Flow 1:

Average throughput: 50.97 Mbit/s

95th percentile per-packet one-way delay: 38.225 ms

Loss rate: 0.17%

-- Flow 2:

Average throughput: 32.30 Mbit/s

95th percentile per-packet one-way delay: 39.012 ms

Loss rate: 0.23%

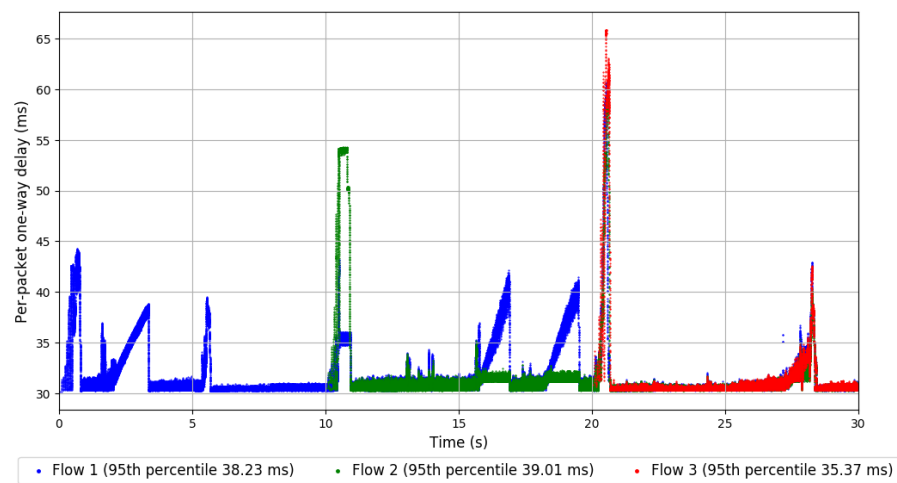
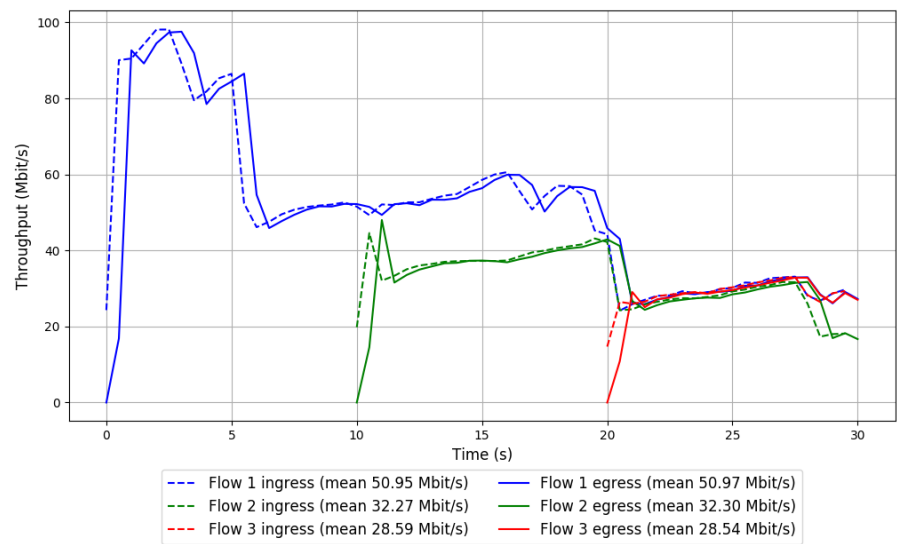
-- Flow 3:

Average throughput: 28.54 Mbit/s

95th percentile per-packet one-way delay: 35.373 ms

Loss rate: 0.82%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-07-18 12:29:29

End at: 2018-07-18 12:29:59

Local clock offset: -4.352 ms

Remote clock offset: 1.333 ms

# Below is generated by plot.py at 2018-07-18 13:06:03

# Datalink statistics

-- Total of 3 flows:

Average throughput: 82.82 Mbit/s

95th percentile per-packet one-way delay: 37.106 ms

Loss rate: 0.27%

-- Flow 1:

Average throughput: 53.72 Mbit/s

95th percentile per-packet one-way delay: 35.272 ms

Loss rate: 0.20%

-- Flow 2:

Average throughput: 34.71 Mbit/s

95th percentile per-packet one-way delay: 38.274 ms

Loss rate: 0.27%

-- Flow 3:

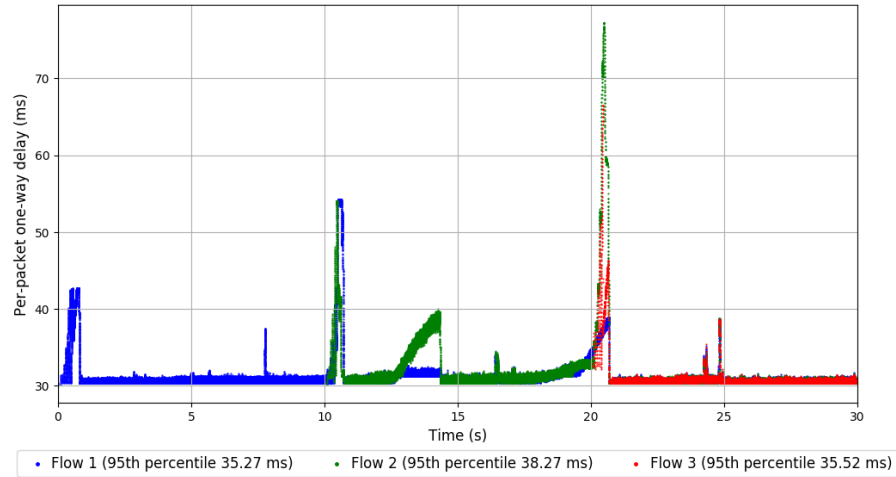
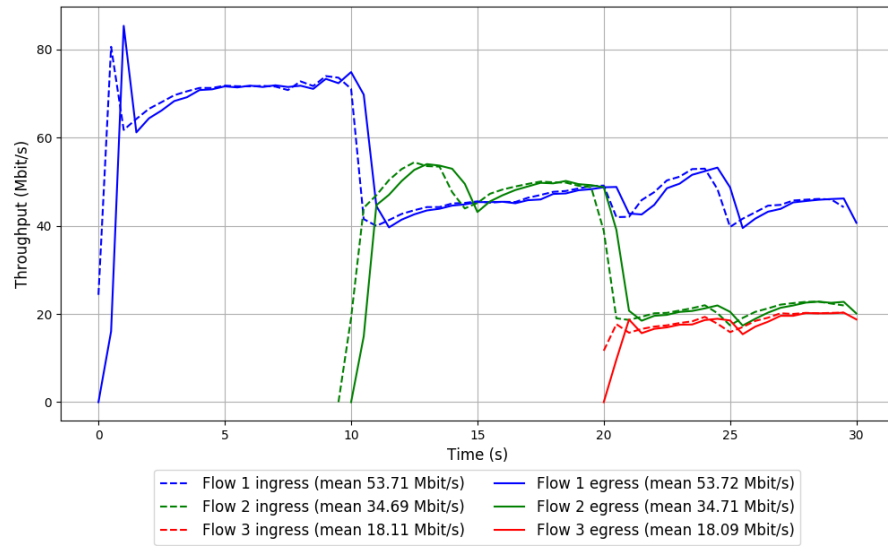
Average throughput: 18.09 Mbit/s

95th percentile per-packet one-way delay: 35.524 ms

Loss rate: 0.80%



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



Run 10: Statistics of TCP Cubic

Start at: 2018-07-18 12:52:53

End at: 2018-07-18 12:53:23

Local clock offset: -2.207 ms

Remote clock offset: 2.287 ms

# Below is generated by plot.py at 2018-07-18 13:06:05

# Datalink statistics

-- Total of 3 flows:

Average throughput: 80.59 Mbit/s

95th percentile per-packet one-way delay: 36.843 ms

Loss rate: 0.31%

-- Flow 1:

Average throughput: 48.14 Mbit/s

95th percentile per-packet one-way delay: 35.533 ms

Loss rate: 0.18%

-- Flow 2:

Average throughput: 35.64 Mbit/s

95th percentile per-packet one-way delay: 37.612 ms

Loss rate: 0.34%

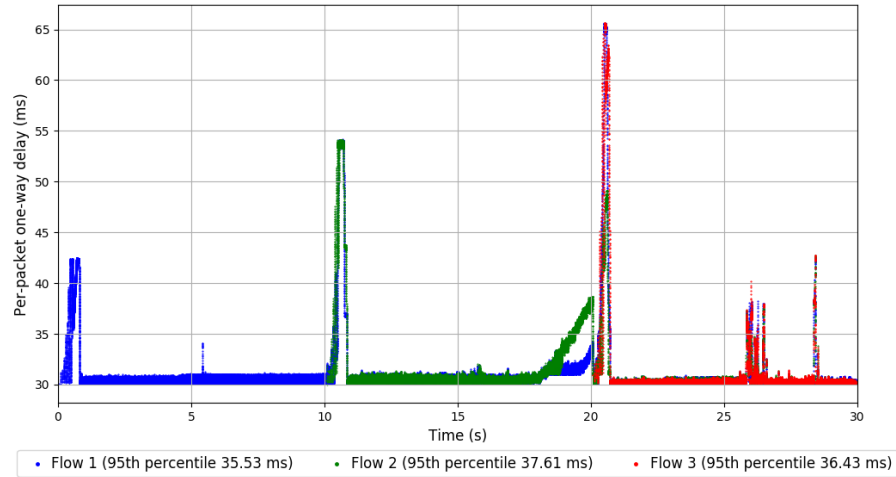
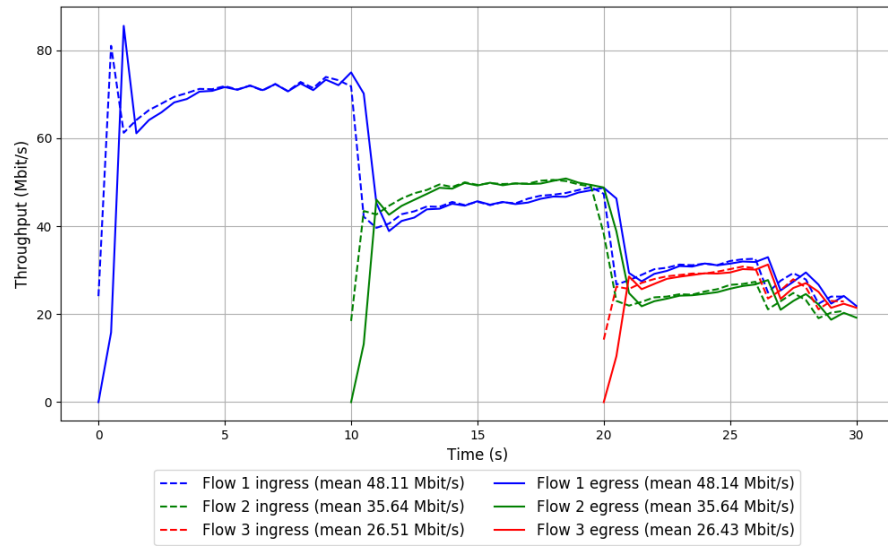
-- Flow 3:

Average throughput: 26.43 Mbit/s

95th percentile per-packet one-way delay: 36.432 ms

Loss rate: 0.95%

# Run 10: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2018-07-18 09:24:07

End at: 2018-07-18 09:24:37

Local clock offset: 0.303 ms

Remote clock offset: 3.428 ms

# Below is generated by plot.py at 2018-07-18 13:06:39

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.55 Mbit/s

95th percentile per-packet one-way delay: 59.189 ms

Loss rate: 2.67%

-- Flow 1:

Average throughput: 59.07 Mbit/s

95th percentile per-packet one-way delay: 58.118 ms

Loss rate: 1.91%

-- Flow 2:

Average throughput: 40.45 Mbit/s

95th percentile per-packet one-way delay: 59.446 ms

Loss rate: 3.75%

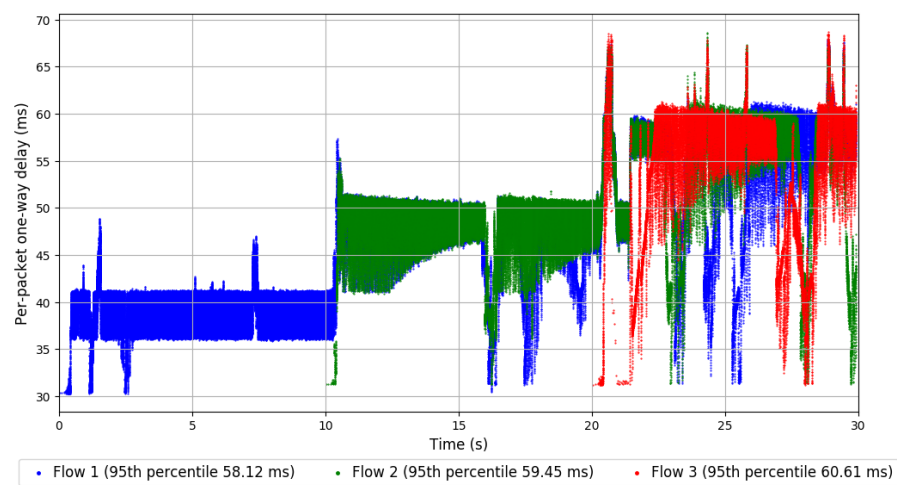
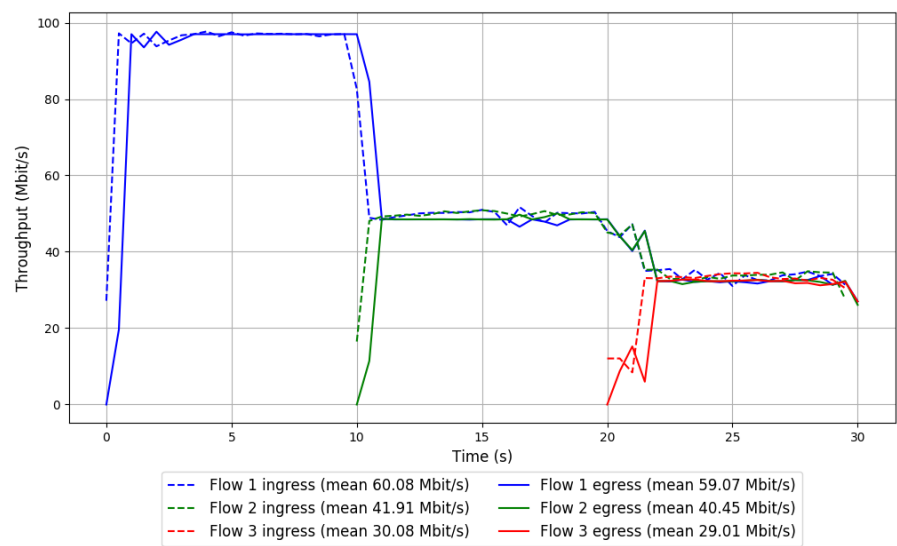
-- Flow 3:

Average throughput: 29.01 Mbit/s

95th percentile per-packet one-way delay: 60.614 ms

Loss rate: 4.24%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-07-18 09:47:18

End at: 2018-07-18 09:47:48

Local clock offset: 0.417 ms

Remote clock offset: 3.898 ms

# Below is generated by plot.py at 2018-07-18 13:06:50

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.66 Mbit/s

95th percentile per-packet one-way delay: 59.305 ms

Loss rate: 2.61%

-- Flow 1:

Average throughput: 59.20 Mbit/s

95th percentile per-packet one-way delay: 58.547 ms

Loss rate: 1.85%

-- Flow 2:

Average throughput: 39.33 Mbit/s

95th percentile per-packet one-way delay: 59.412 ms

Loss rate: 3.61%

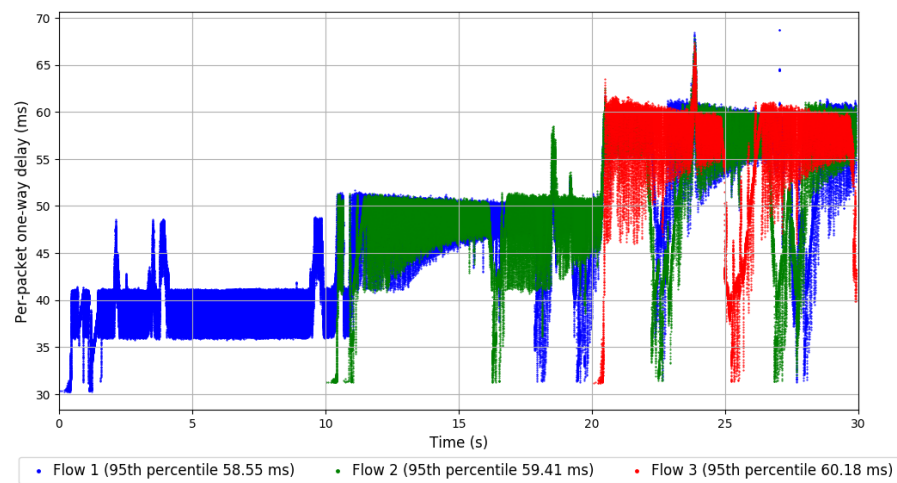
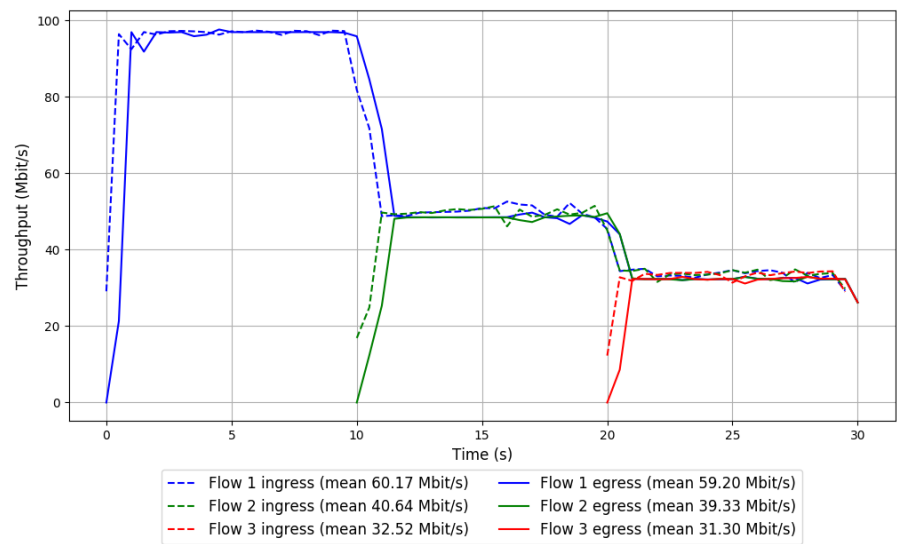
-- Flow 3:

Average throughput: 31.30 Mbit/s

95th percentile per-packet one-way delay: 60.177 ms

Loss rate: 4.33%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-07-18 10:10:52

End at: 2018-07-18 10:11:22

Local clock offset: 0.309 ms

Remote clock offset: 3.539 ms

# Below is generated by plot.py at 2018-07-18 13:06:58

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.63 Mbit/s

95th percentile per-packet one-way delay: 66.450 ms

Loss rate: 3.03%

-- Flow 1:

Average throughput: 56.23 Mbit/s

95th percentile per-packet one-way delay: 66.102 ms

Loss rate: 2.09%

-- Flow 2:

Average throughput: 36.06 Mbit/s

95th percentile per-packet one-way delay: 67.605 ms

Loss rate: 4.89%

-- Flow 3:

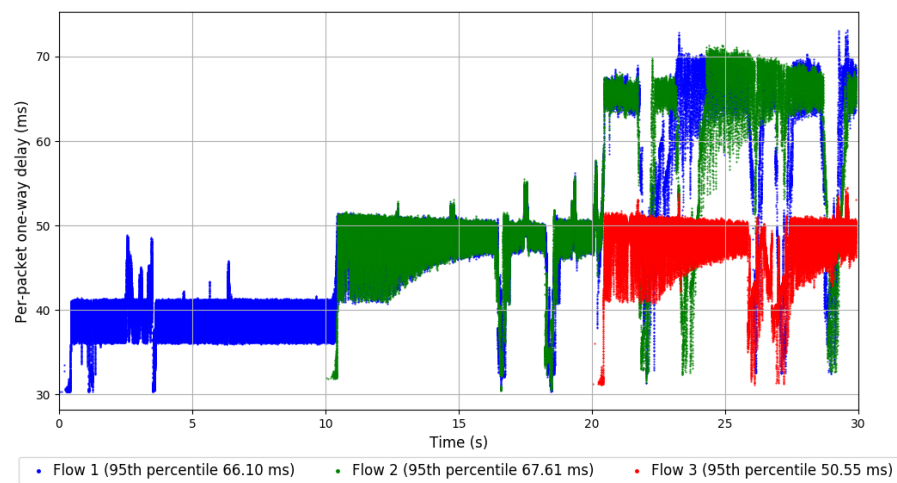
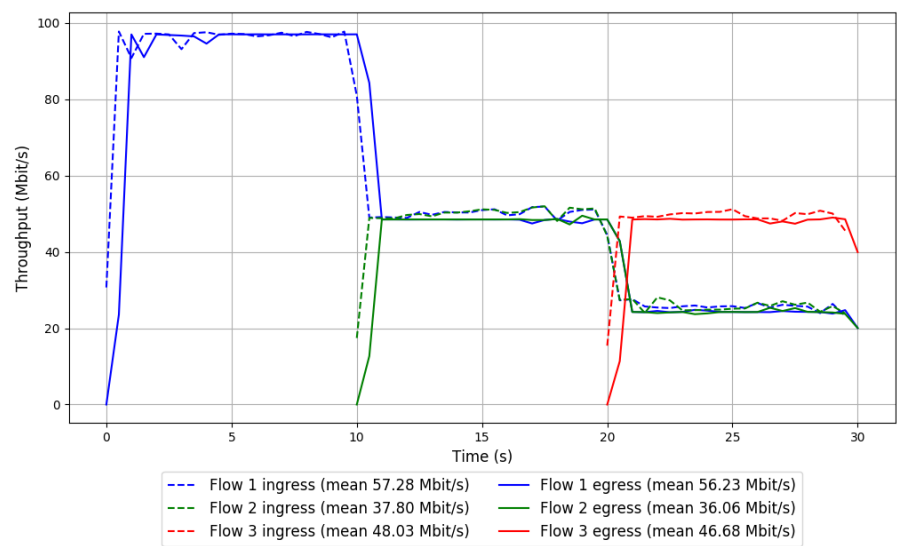
Average throughput: 46.68 Mbit/s

95th percentile per-packet one-way delay: 50.549 ms

Loss rate: 3.51%



Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-07-18 10:34:35

End at: 2018-07-18 10:35:05

Local clock offset: 0.163 ms

Remote clock offset: 3.354 ms

# Below is generated by plot.py at 2018-07-18 13:07:06

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.60 Mbit/s

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

Loss rate: 2.85%

-- Flow 1:

Average throughput: 56.27 Mbit/s

95th percentile per-packet one-way delay: 66.048 ms

Loss rate: 2.14%

-- Flow 2:

Average throughput: 35.91 Mbit/s

95th percentile per-packet one-way delay: 67.466 ms

Loss rate: 4.07%

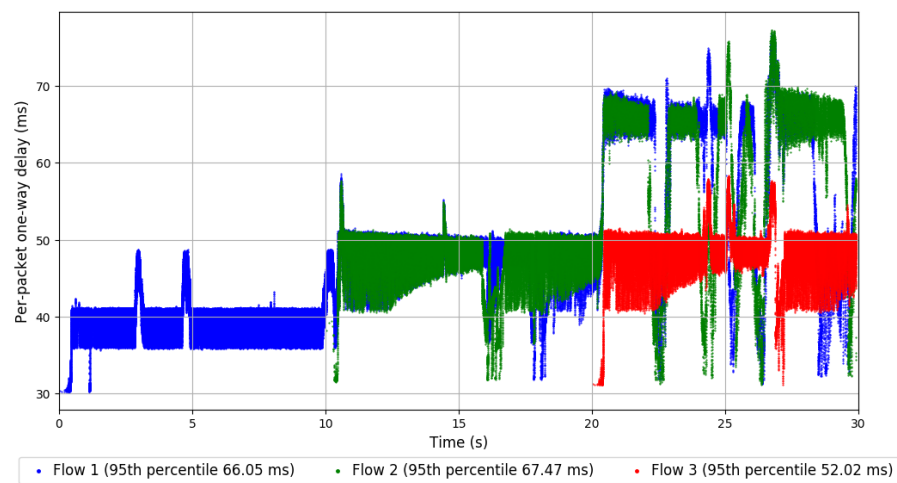
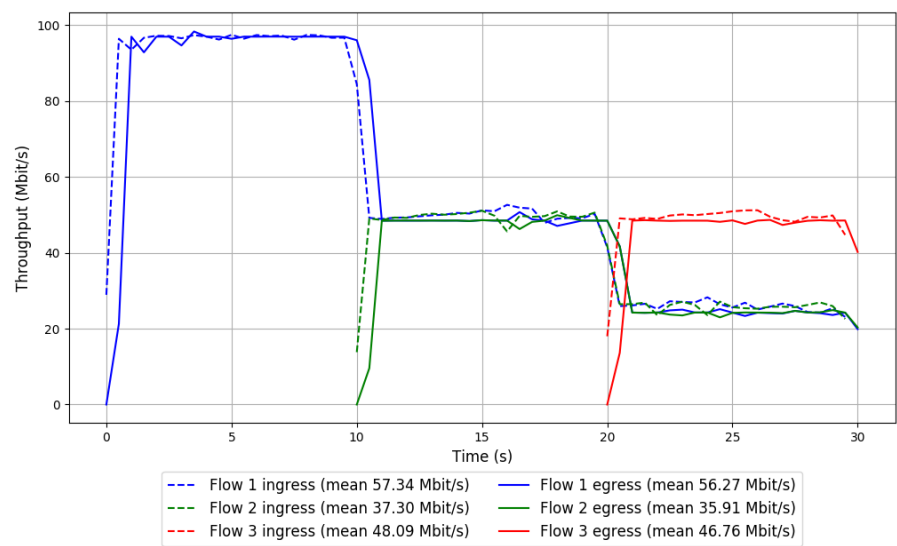
-- Flow 3:

Average throughput: 46.76 Mbit/s

95th percentile per-packet one-way delay: 52.020 ms

Loss rate: 3.50%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-07-18 10:57:57

End at: 2018-07-18 10:58:27

Local clock offset: 0.201 ms

Remote clock offset: 3.034 ms

# Below is generated by plot.py at 2018-07-18 13:07:12

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.59 Mbit/s

95th percentile per-packet one-way delay: 59.095 ms

Loss rate: 2.56%

-- Flow 1:

Average throughput: 59.38 Mbit/s

95th percentile per-packet one-way delay: 58.148 ms

Loss rate: 1.81%

-- Flow 2:

Average throughput: 39.10 Mbit/s

95th percentile per-packet one-way delay: 59.413 ms

Loss rate: 3.68%

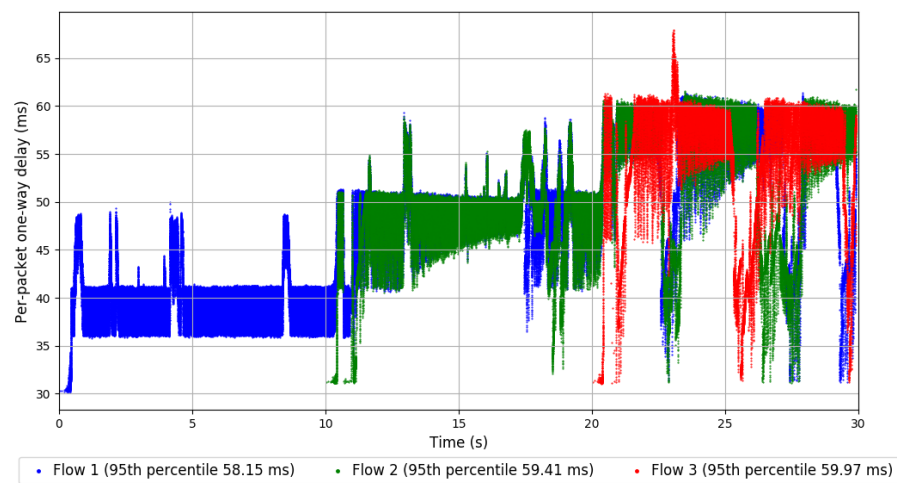
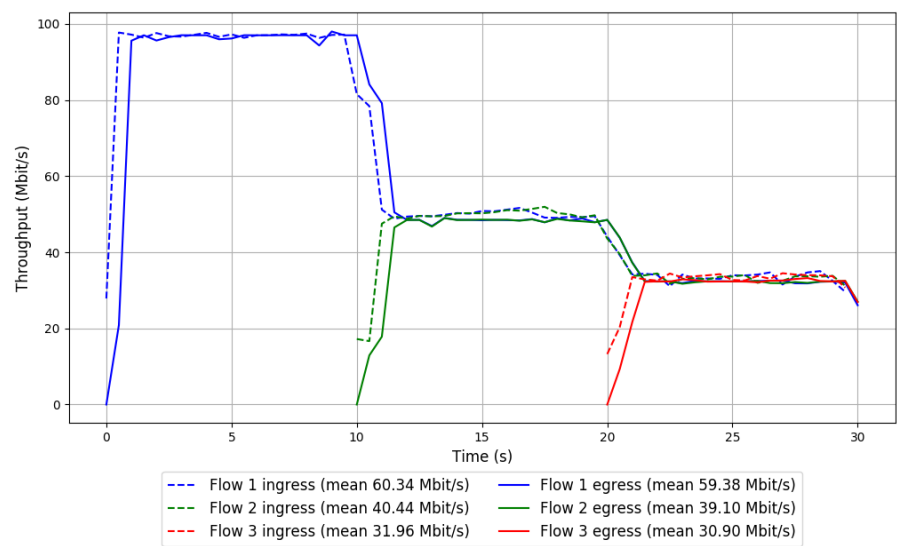
-- Flow 3:

Average throughput: 30.90 Mbit/s

95th percentile per-packet one-way delay: 59.971 ms

Loss rate: 3.93%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-07-18 11:21:34

End at: 2018-07-18 11:22:04

Local clock offset: 0.186 ms

Remote clock offset: 3.331 ms

# Below is generated by plot.py at 2018-07-18 13:07:22

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.65 Mbit/s

95th percentile per-packet one-way delay: 59.318 ms

Loss rate: 2.65%

-- Flow 1:

Average throughput: 59.02 Mbit/s

95th percentile per-packet one-way delay: 58.639 ms

Loss rate: 1.94%

-- Flow 2:

Average throughput: 39.88 Mbit/s

95th percentile per-packet one-way delay: 59.065 ms

Loss rate: 3.74%

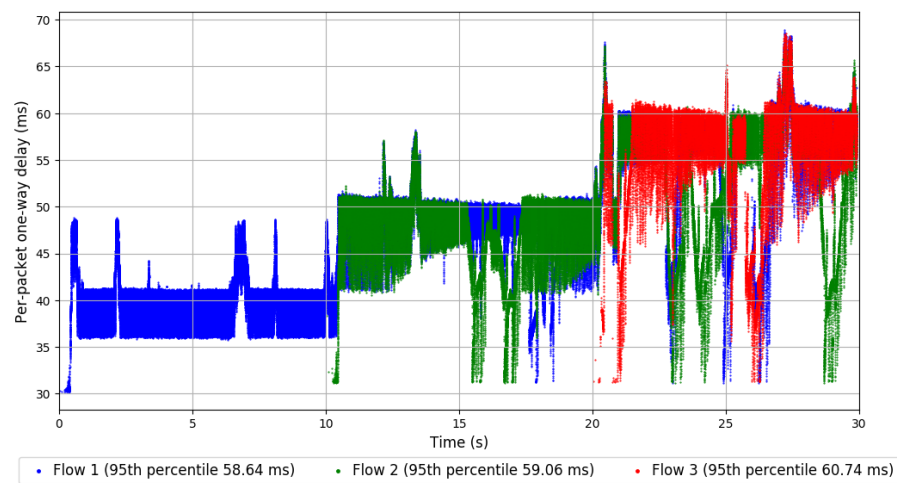
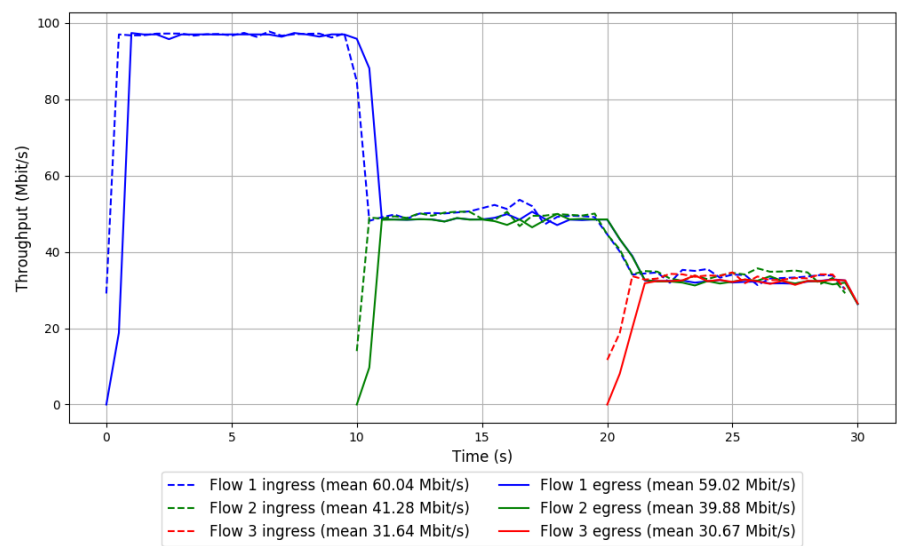
-- Flow 3:

Average throughput: 30.67 Mbit/s

95th percentile per-packet one-way delay: 60.745 ms

Loss rate: 3.85%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-07-18 11:45:07

End at: 2018-07-18 11:45:37

Local clock offset: 0.044 ms

Remote clock offset: 3.201 ms

# Below is generated by plot.py at 2018-07-18 13:07:24

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.51 Mbit/s

95th percentile per-packet one-way delay: 66.818 ms

Loss rate: 3.14%

-- Flow 1:

Average throughput: 56.44 Mbit/s

95th percentile per-packet one-way delay: 66.553 ms

Loss rate: 2.36%

-- Flow 2:

Average throughput: 47.46 Mbit/s

95th percentile per-packet one-way delay: 53.946 ms

Loss rate: 3.61%

-- Flow 3:

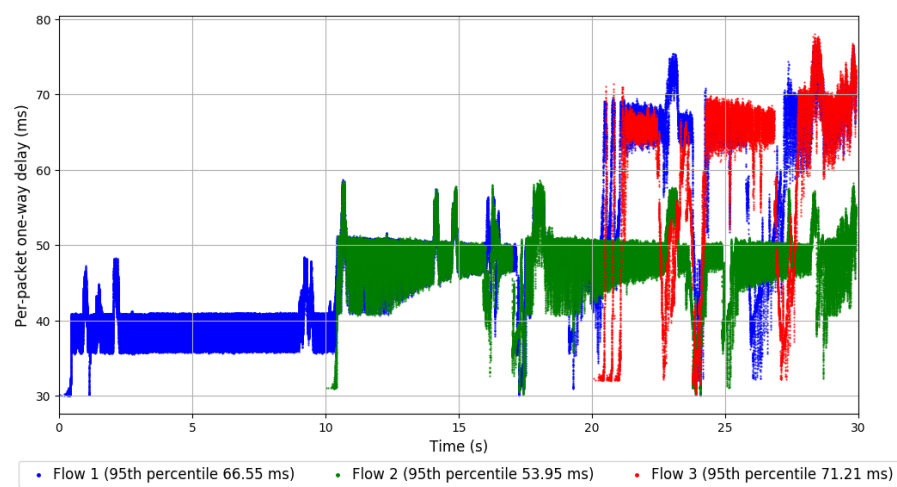
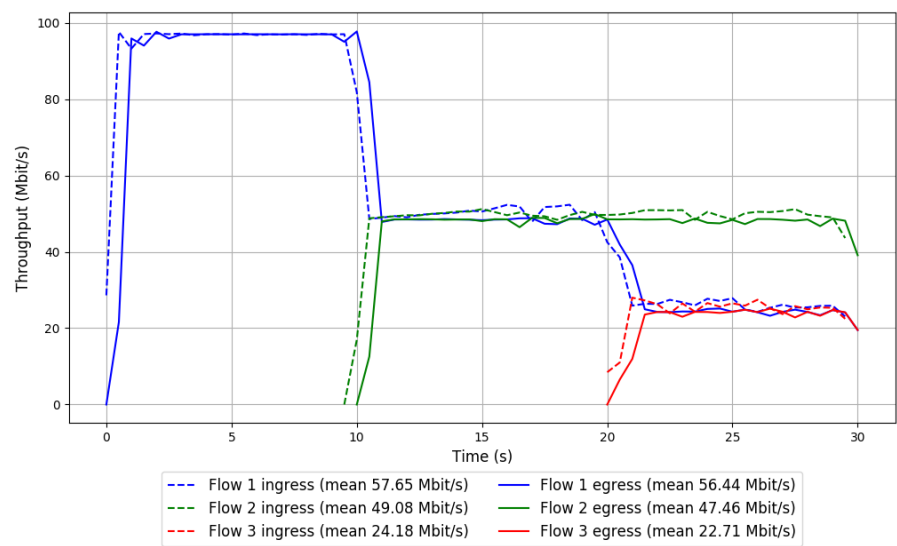
Average throughput: 22.71 Mbit/s

95th percentile per-packet one-way delay: 71.213 ms

Loss rate: 6.89%



Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-07-18 12:08:48

End at: 2018-07-18 12:09:18

Local clock offset: -3.195 ms

Remote clock offset: 1.741 ms

# Below is generated by plot.py at 2018-07-18 13:07:26

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.73 Mbit/s

95th percentile per-packet one-way delay: 67.203 ms

Loss rate: 2.68%

-- Flow 1:

Average throughput: 63.98 Mbit/s

95th percentile per-packet one-way delay: 50.509 ms

Loss rate: 1.74%

-- Flow 2:

Average throughput: 36.10 Mbit/s

95th percentile per-packet one-way delay: 68.257 ms

Loss rate: 4.15%

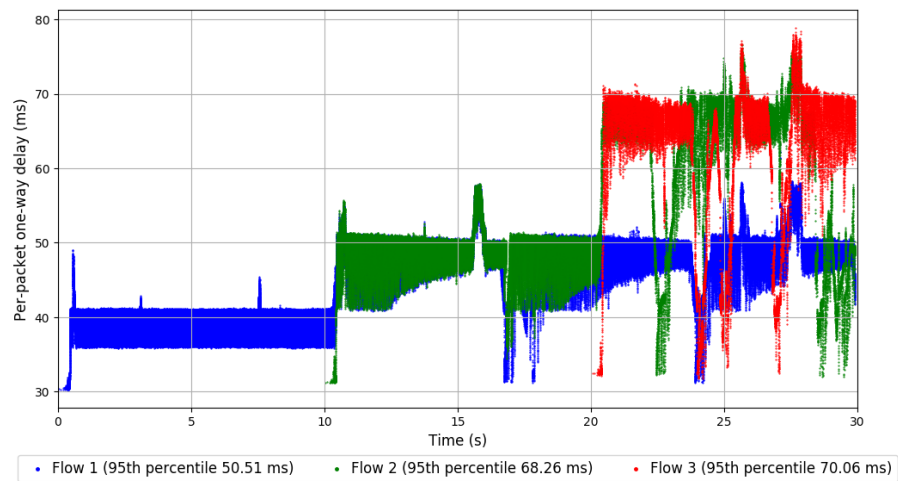
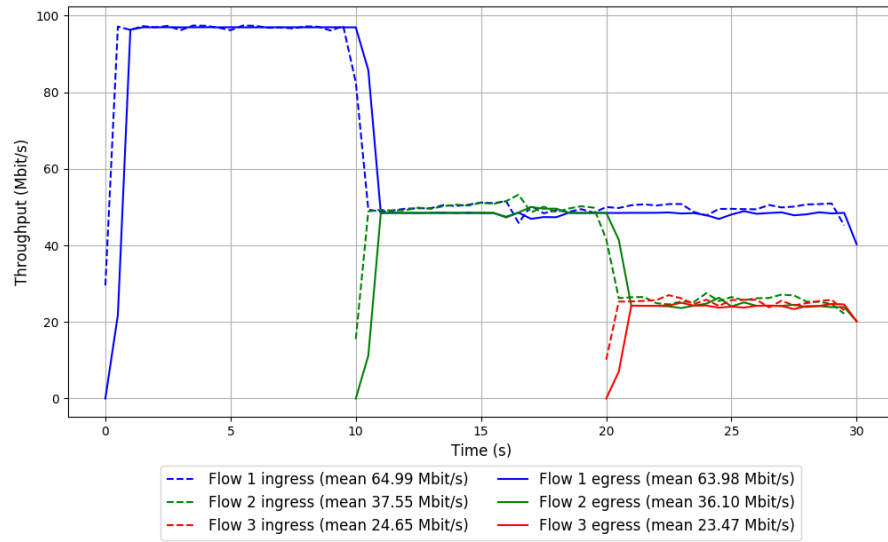
-- Flow 3:

Average throughput: 23.47 Mbit/s

95th percentile per-packet one-way delay: 70.059 ms

Loss rate: 5.56%

## Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-07-18 12:32:10

End at: 2018-07-18 12:32:40

Local clock offset: -4.422 ms

Remote clock offset: 1.254 ms

# Below is generated by plot.py at 2018-07-18 13:08:03

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.75 Mbit/s

95th percentile per-packet one-way delay: 67.335 ms

Loss rate: 2.46%

-- Flow 1:

Average throughput: 64.09 Mbit/s

95th percentile per-packet one-way delay: 50.041 ms

Loss rate: 1.55%

-- Flow 2:

Average throughput: 36.07 Mbit/s

95th percentile per-packet one-way delay: 68.598 ms

Loss rate: 3.92%

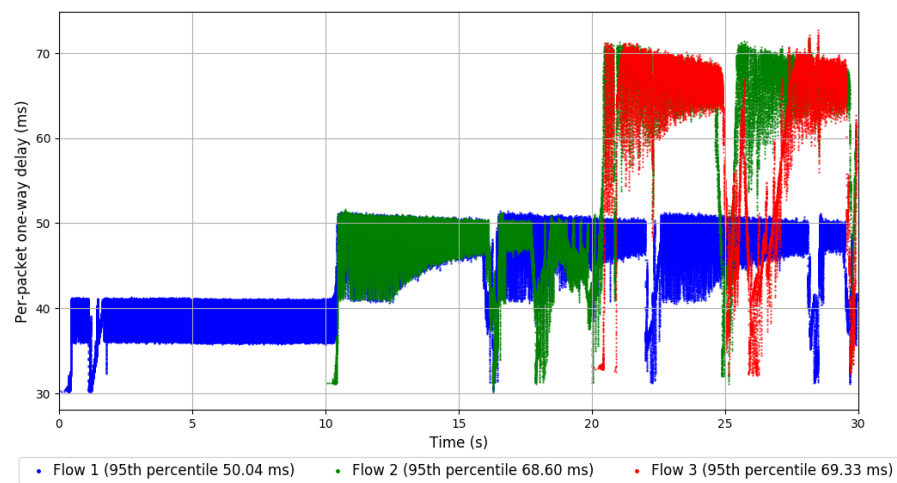
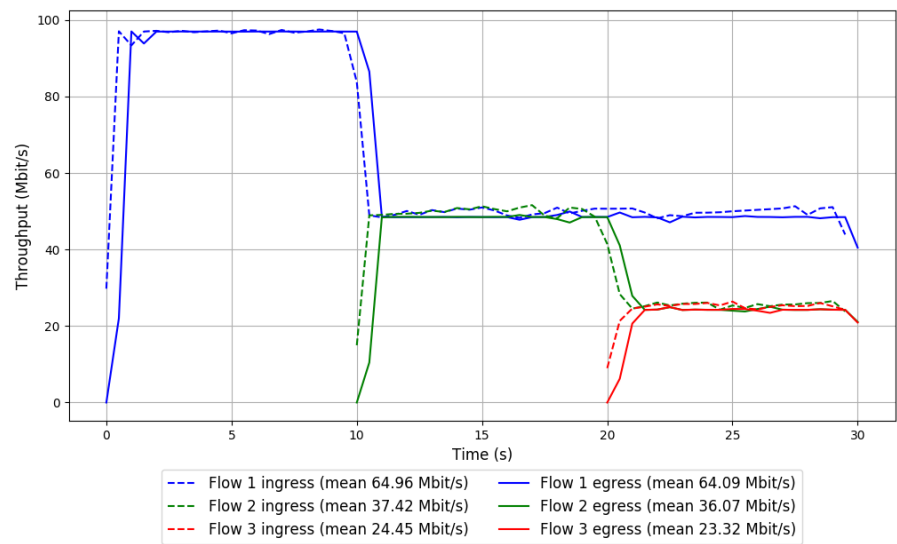
-- Flow 3:

Average throughput: 23.32 Mbit/s

95th percentile per-packet one-way delay: 69.331 ms

Loss rate: 5.22%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-07-18 12:55:36

End at: 2018-07-18 12:56:06

Local clock offset: -1.238 ms

Remote clock offset: 2.705 ms

# Below is generated by plot.py at 2018-07-18 13:08:12

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.73 Mbit/s

95th percentile per-packet one-way delay: 58.945 ms

Loss rate: 2.49%

-- Flow 1:

Average throughput: 58.86 Mbit/s

95th percentile per-packet one-way delay: 58.310 ms

Loss rate: 1.61%

-- Flow 2:

Average throughput: 39.94 Mbit/s

95th percentile per-packet one-way delay: 58.763 ms

Loss rate: 3.69%

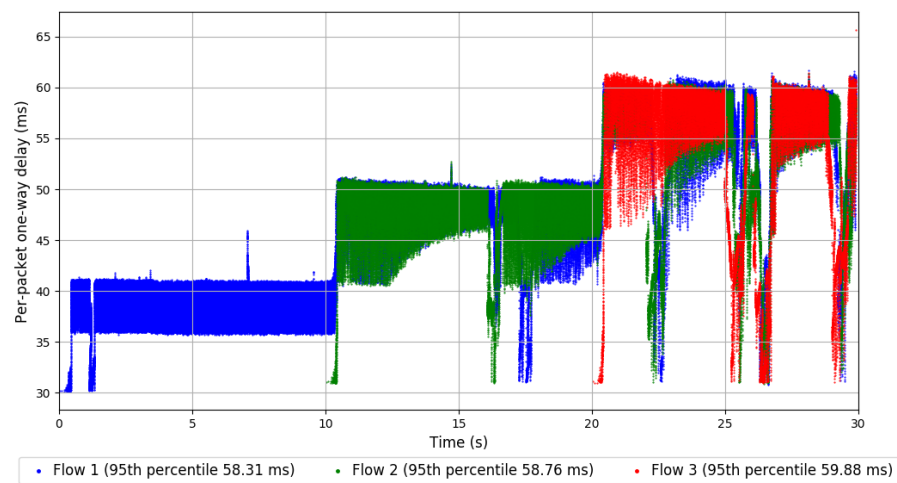
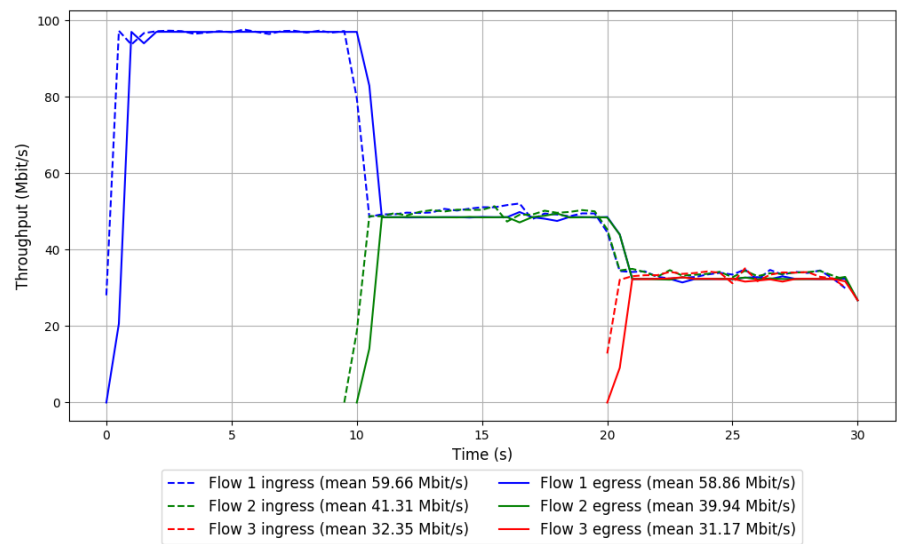
-- Flow 3:

Average throughput: 31.17 Mbit/s

95th percentile per-packet one-way delay: 59.878 ms

Loss rate: 4.34%

Run 10: Report of FillP — Data Link



Run 1: Statistics of FillP-Sheep

Start at: 2018-07-18 09:22:46

End at: 2018-07-18 09:23:16

Local clock offset: 0.312 ms

Remote clock offset: 3.452 ms

# Below is generated by plot.py at 2018-07-18 13:08:20

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.57 Mbit/s

95th percentile per-packet one-way delay: 53.246 ms

Loss rate: 0.83%

-- Flow 1:

Average throughput: 56.11 Mbit/s

95th percentile per-packet one-way delay: 52.559 ms

Loss rate: 0.69%

-- Flow 2:

Average throughput: 36.02 Mbit/s

95th percentile per-packet one-way delay: 59.779 ms

Loss rate: 0.94%

-- Flow 3:

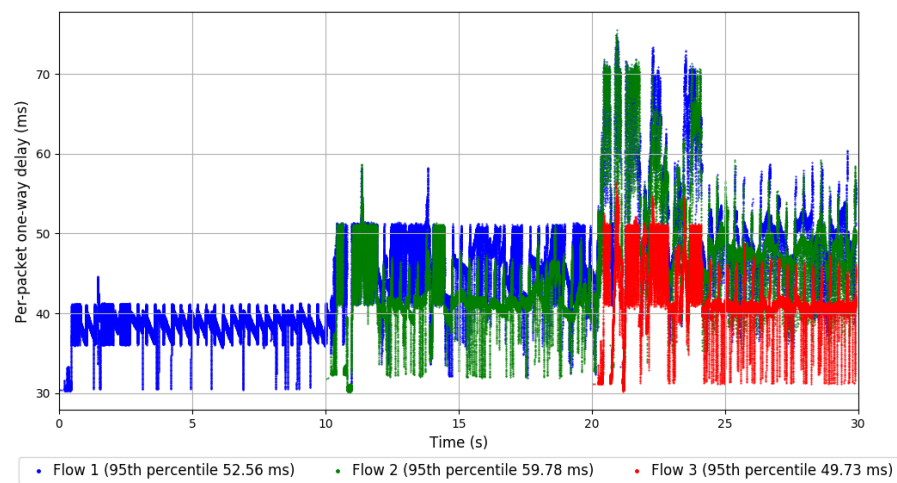
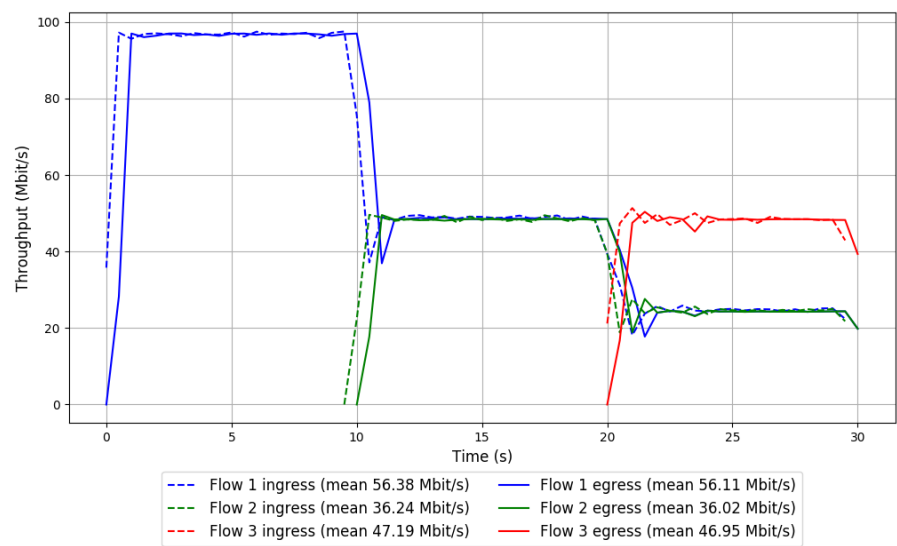
Average throughput: 46.95 Mbit/s

95th percentile per-packet one-way delay: 49.728 ms

Loss rate: 1.17%



Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

Start at: 2018-07-18 09:45:55

End at: 2018-07-18 09:46:25

Local clock offset: 0.404 ms

Remote clock offset: 3.847 ms

# Below is generated by plot.py at 2018-07-18 13:08:28

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.59 Mbit/s

95th percentile per-packet one-way delay: 54.168 ms

Loss rate: 0.98%

-- Flow 1:

Average throughput: 58.49 Mbit/s

95th percentile per-packet one-way delay: 53.149 ms

Loss rate: 1.01%

-- Flow 2:

Average throughput: 40.10 Mbit/s

95th percentile per-packet one-way delay: 54.837 ms

Loss rate: 0.93%

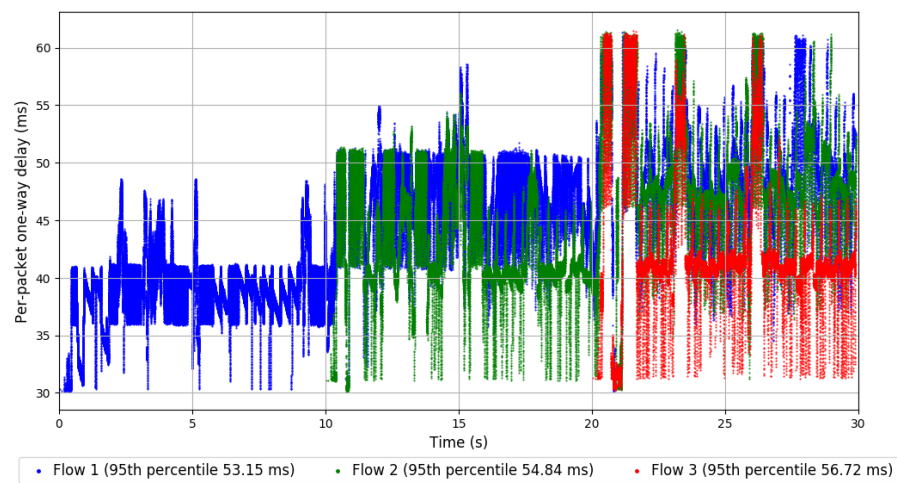
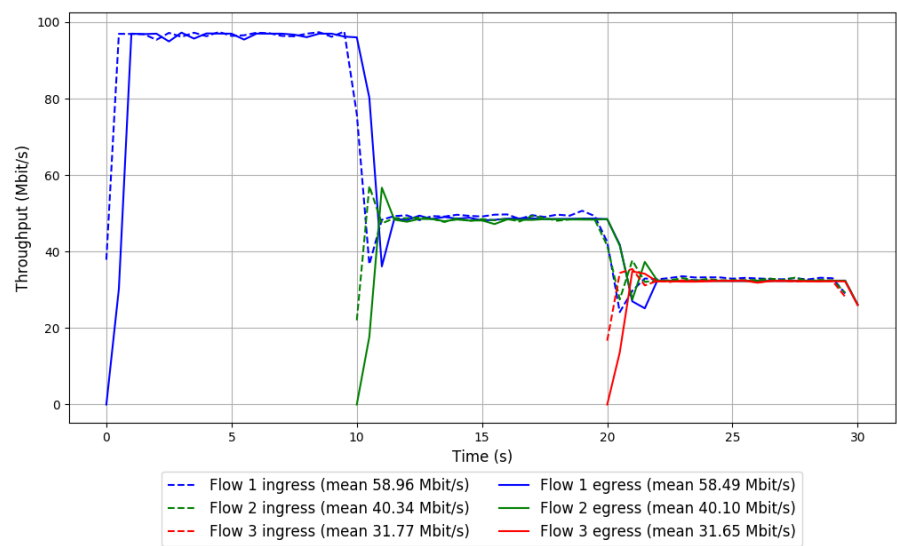
-- Flow 3:

Average throughput: 31.65 Mbit/s

95th percentile per-packet one-way delay: 56.723 ms

Loss rate: 0.98%

Run 2: Report of FillP-Sheep — Data Link



Run 3: Statistics of FillP-Sheep

Start at: 2018-07-18 10:09:28

End at: 2018-07-18 10:09:58

Local clock offset: 0.313 ms

Remote clock offset: 3.529 ms

# Below is generated by plot.py at 2018-07-18 13:08:34

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.70 Mbit/s

95th percentile per-packet one-way delay: 55.138 ms

Loss rate: 1.04%

-- Flow 1:

Average throughput: 56.03 Mbit/s

95th percentile per-packet one-way delay: 54.688 ms

Loss rate: 0.99%

-- Flow 2:

Average throughput: 36.31 Mbit/s

95th percentile per-packet one-way delay: 62.631 ms

Loss rate: 1.09%

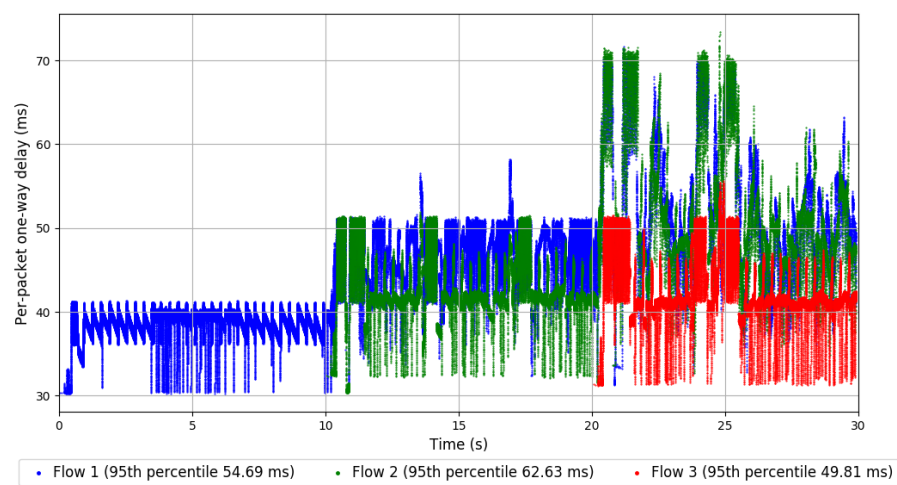
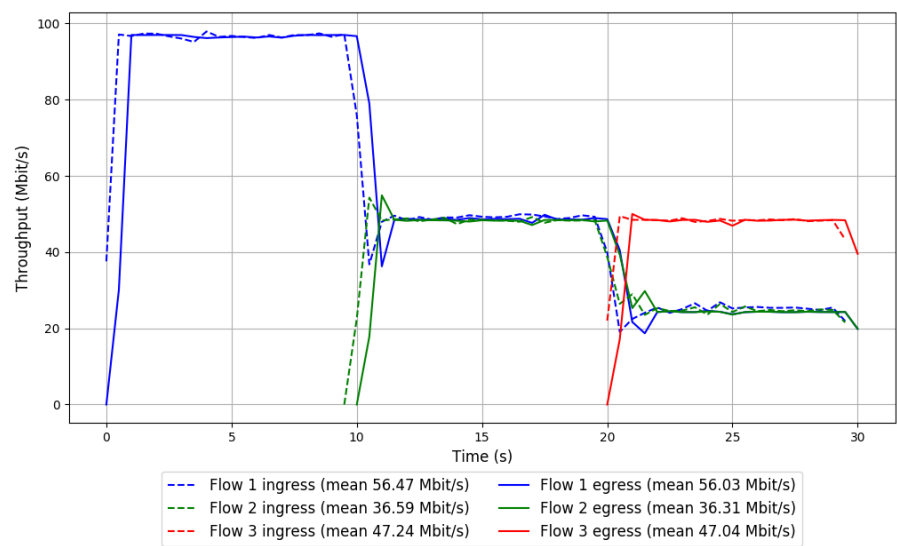
-- Flow 3:

Average throughput: 47.04 Mbit/s

95th percentile per-packet one-way delay: 49.809 ms

Loss rate: 1.11%

Run 3: Report of FillP-Sheep — Data Link



Run 4: Statistics of FillP-Sheep

Start at: 2018-07-18 10:33:09

End at: 2018-07-18 10:33:39

Local clock offset: 0.172 ms

Remote clock offset: 3.442 ms

# Below is generated by plot.py at 2018-07-18 13:08:44

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.67 Mbit/s

95th percentile per-packet one-way delay: 50.773 ms

Loss rate: 0.65%

-- Flow 1:

Average throughput: 63.52 Mbit/s

95th percentile per-packet one-way delay: 49.656 ms

Loss rate: 0.52%

-- Flow 2:

Average throughput: 36.46 Mbit/s

95th percentile per-packet one-way delay: 58.750 ms

Loss rate: 0.70%

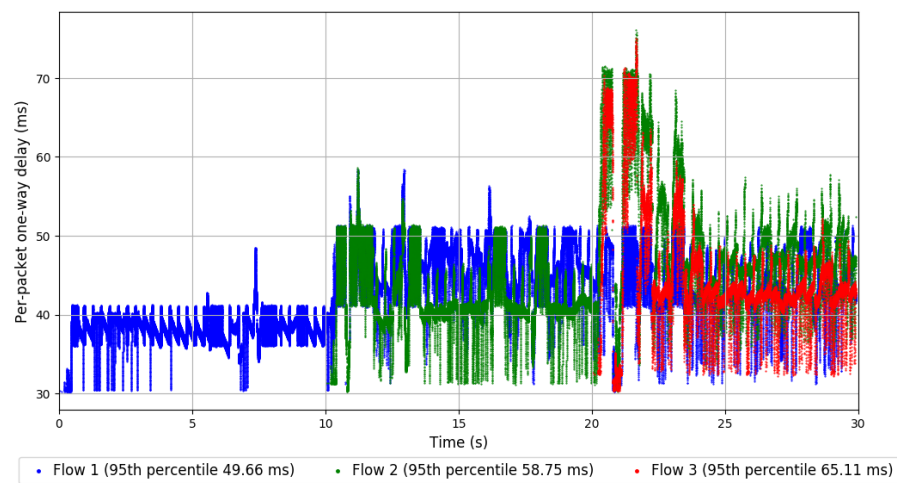
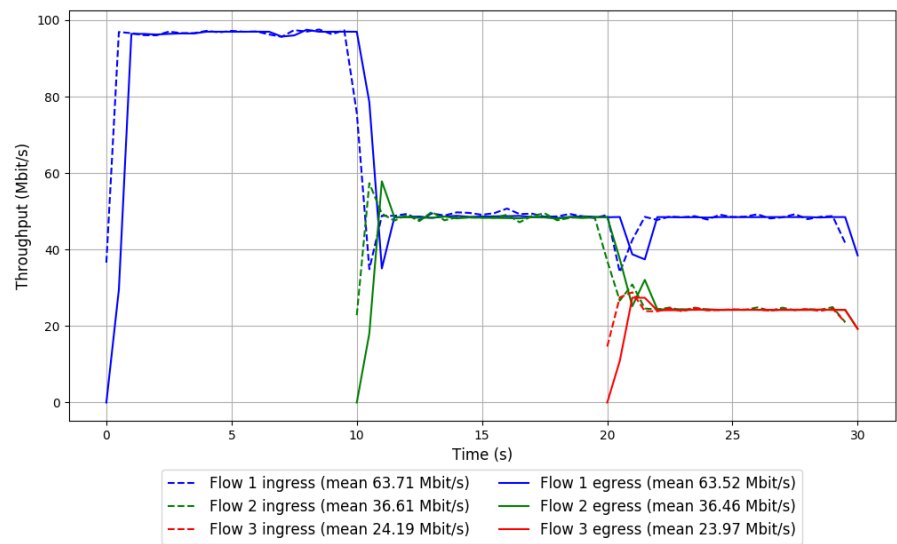
-- Flow 3:

Average throughput: 23.97 Mbit/s

95th percentile per-packet one-way delay: 65.108 ms

Loss rate: 1.54%

Run 4: Report of FillP-Sheep — Data Link



Run 5: Statistics of FillP-Sheep

Start at: 2018-07-18 10:56:34

End at: 2018-07-18 10:57:04

Local clock offset: 0.12 ms

Remote clock offset: 3.042 ms

# Below is generated by plot.py at 2018-07-18 13:08:45

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.64 Mbit/s

95th percentile per-packet one-way delay: 55.807 ms

Loss rate: 1.20%

-- Flow 1:

Average throughput: 56.05 Mbit/s

95th percentile per-packet one-way delay: 55.442 ms

Loss rate: 1.19%

-- Flow 2:

Average throughput: 36.27 Mbit/s

95th percentile per-packet one-way delay: 60.847 ms

Loss rate: 1.23%

-- Flow 3:

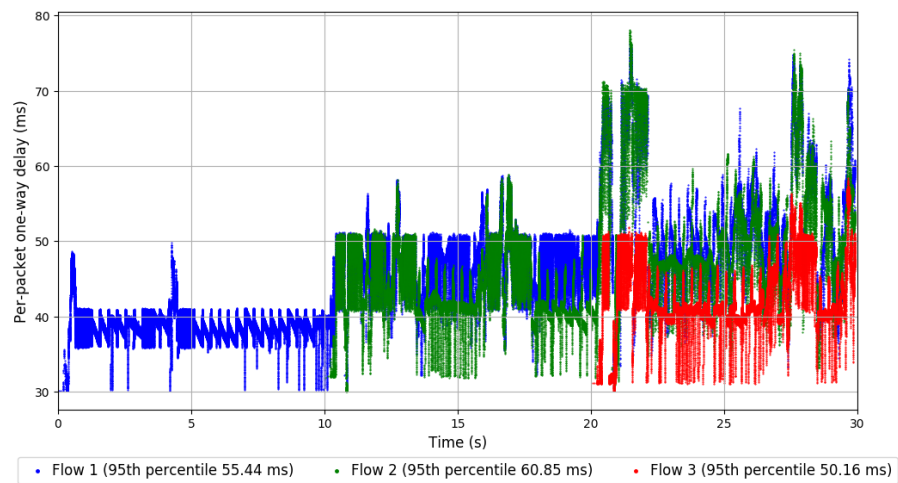
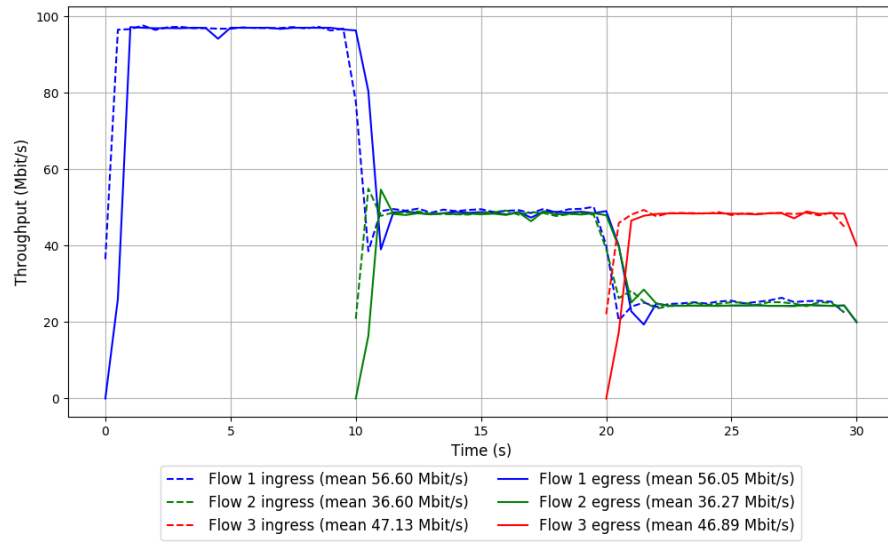
Average throughput: 46.89 Mbit/s

95th percentile per-packet one-way delay: 50.161 ms

Loss rate: 1.16%



## Run 5: Report of FillP-Sheep — Data Link



Run 6: Statistics of FillP-Sheep

Start at: 2018-07-18 11:20:09

End at: 2018-07-18 11:20:39

Local clock offset: 0.196 ms

Remote clock offset: 3.3 ms

# Below is generated by plot.py at 2018-07-18 13:08:48

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.57 Mbit/s

95th percentile per-packet one-way delay: 52.472 ms

Loss rate: 1.37%

-- Flow 1:

Average throughput: 63.53 Mbit/s

95th percentile per-packet one-way delay: 50.131 ms

Loss rate: 1.13%

-- Flow 2:

Average throughput: 36.47 Mbit/s

95th percentile per-packet one-way delay: 59.211 ms

Loss rate: 1.03%

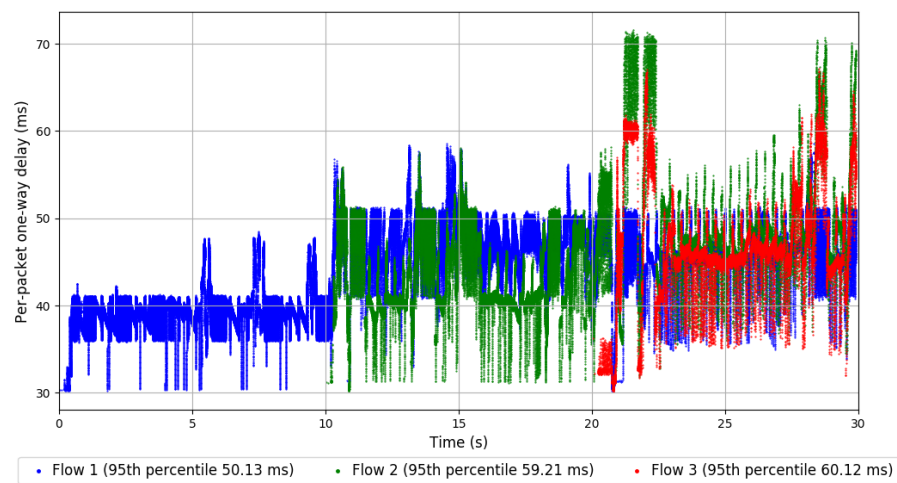
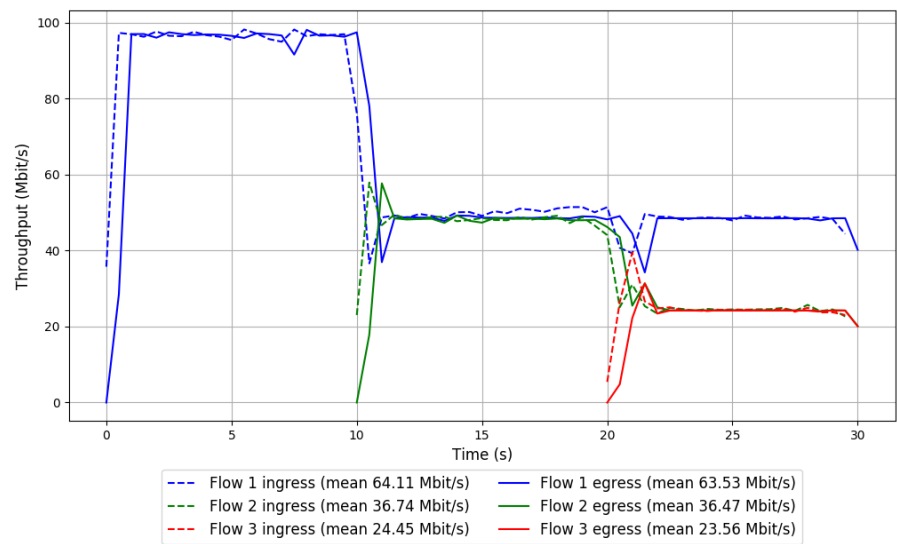
-- Flow 3:

Average throughput: 23.56 Mbit/s

95th percentile per-packet one-way delay: 60.124 ms

Loss rate: 4.31%

Run 6: Report of FillP-Sheep — Data Link



Run 7: Statistics of FillP-Sheep

Start at: 2018-07-18 11:43:45

End at: 2018-07-18 11:44:15

Local clock offset: 0.144 ms

Remote clock offset: 3.246 ms

# Below is generated by plot.py at 2018-07-18 13:09:27

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.26 Mbit/s

95th percentile per-packet one-way delay: 60.430 ms

Loss rate: 1.16%

-- Flow 1:

Average throughput: 63.81 Mbit/s

95th percentile per-packet one-way delay: 50.721 ms

Loss rate: 0.92%

-- Flow 2:

Average throughput: 35.57 Mbit/s

95th percentile per-packet one-way delay: 67.621 ms

Loss rate: 1.65%

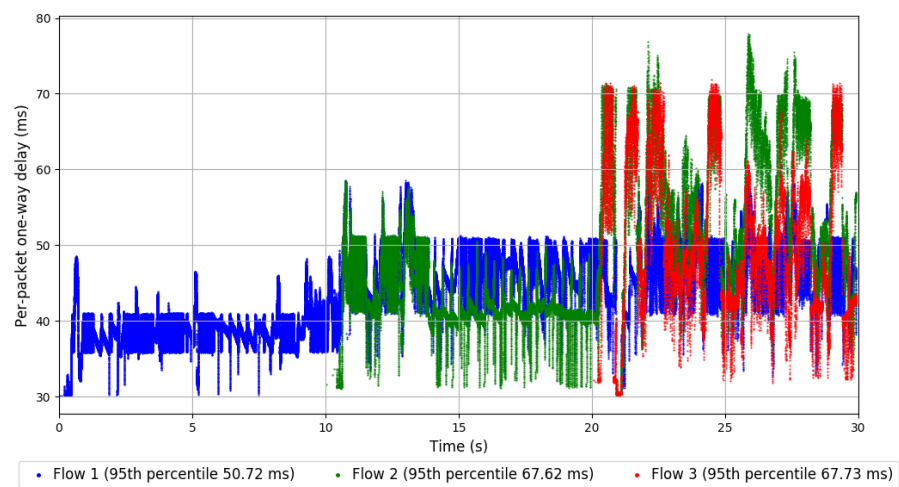
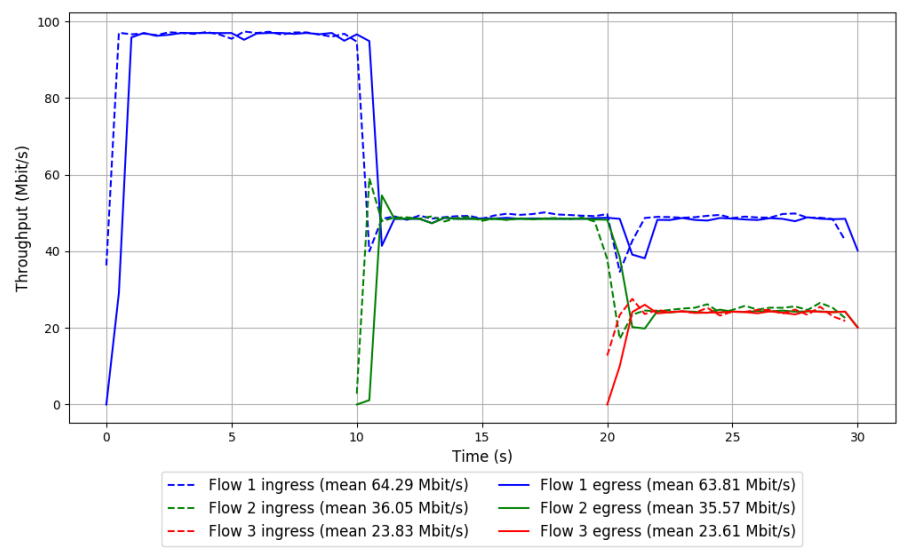
-- Flow 3:

Average throughput: 23.61 Mbit/s

95th percentile per-packet one-way delay: 67.726 ms

Loss rate: 1.60%

Run 7: Report of FillP-Sheep — Data Link



Run 8: Statistics of FillP-Sheep

Start at: 2018-07-18 12:07:26

End at: 2018-07-18 12:07:57

Local clock offset: -3.209 ms

Remote clock offset: 1.956 ms

# Below is generated by plot.py at 2018-07-18 13:09:36

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.34 Mbit/s

95th percentile per-packet one-way delay: 58.106 ms

Loss rate: 1.32%

-- Flow 1:

Average throughput: 58.39 Mbit/s

95th percentile per-packet one-way delay: 57.266 ms

Loss rate: 1.19%

-- Flow 2:

Average throughput: 39.91 Mbit/s

95th percentile per-packet one-way delay: 59.109 ms

Loss rate: 1.58%

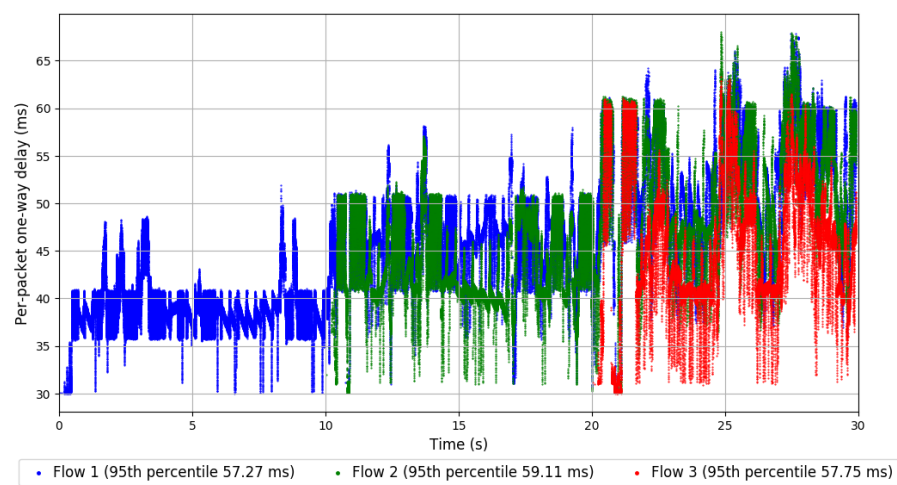
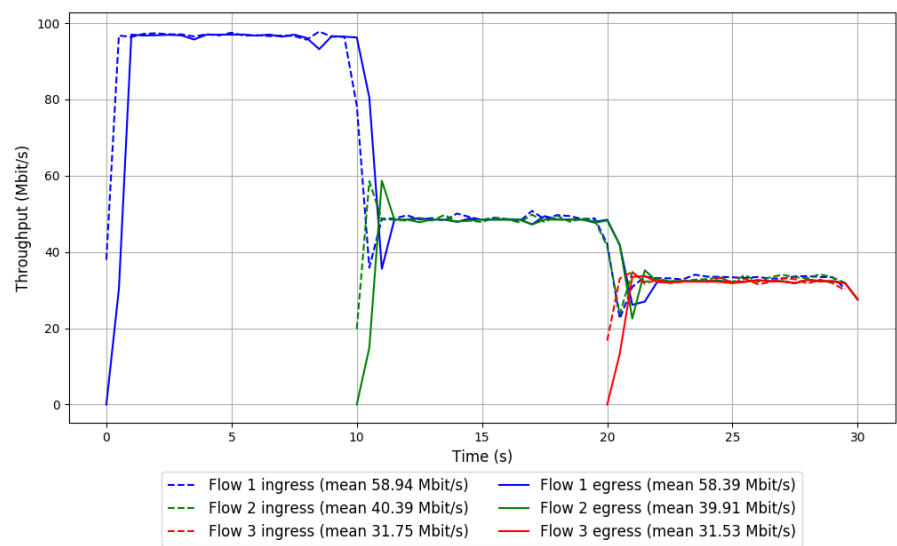
-- Flow 3:

Average throughput: 31.53 Mbit/s

95th percentile per-packet one-way delay: 57.753 ms

Loss rate: 1.35%

Run 8: Report of FillP-Sheep — Data Link



Run 9: Statistics of FillP-Sheep

Start at: 2018-07-18 12:30:49

End at: 2018-07-18 12:31:19

Local clock offset: -4.333 ms

Remote clock offset: 1.287 ms

# Below is generated by plot.py at 2018-07-18 13:09:44

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.56 Mbit/s

95th percentile per-packet one-way delay: 53.338 ms

Loss rate: 0.93%

-- Flow 1:

Average throughput: 56.07 Mbit/s

95th percentile per-packet one-way delay: 53.366 ms

Loss rate: 0.88%

-- Flow 2:

Average throughput: 36.10 Mbit/s

95th percentile per-packet one-way delay: 58.273 ms

Loss rate: 1.00%

-- Flow 3:

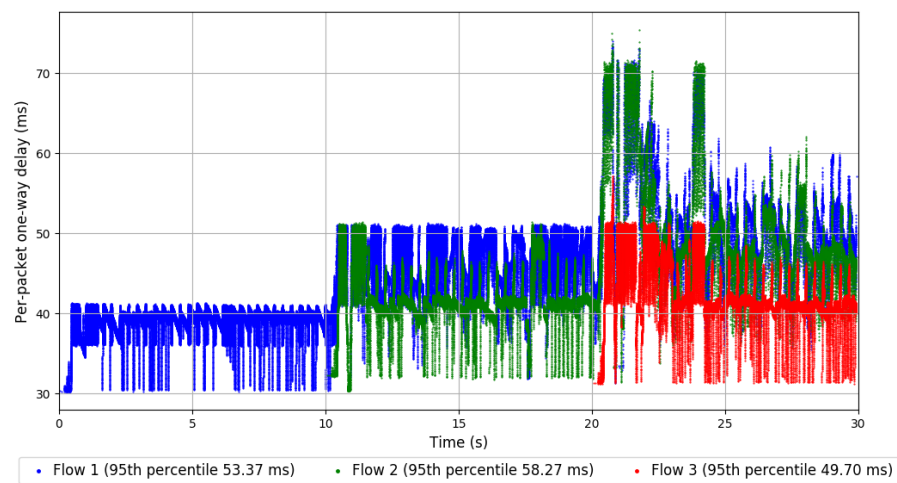
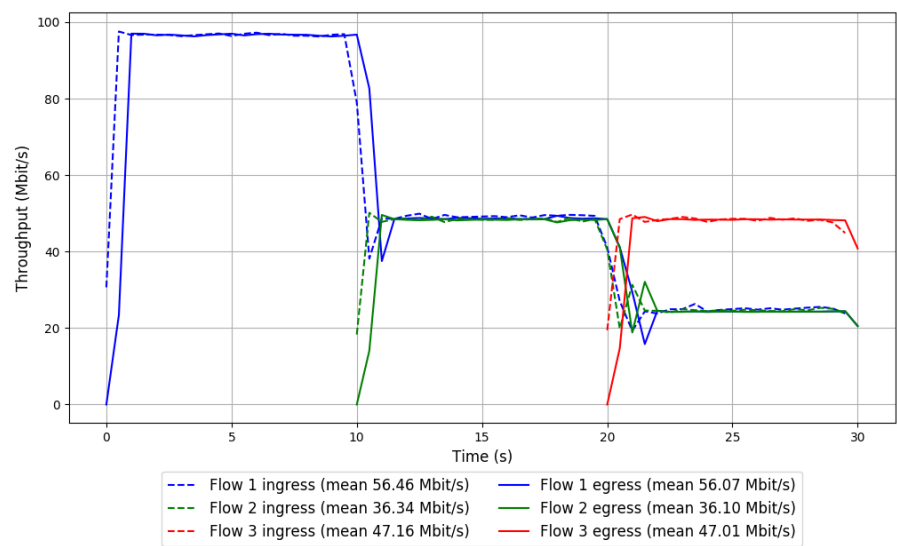
Average throughput: 47.01 Mbit/s

95th percentile per-packet one-way delay: 49.698 ms

Loss rate: 0.98%



Run 9: Report of FillP-Sheep — Data Link



Run 10: Statistics of FillP-Sheep

Start at: 2018-07-18 12:54:14

End at: 2018-07-18 12:54:44

Local clock offset: -1.688 ms

Remote clock offset: 2.474 ms

# Below is generated by plot.py at 2018-07-18 13:09:49

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.72 Mbit/s

95th percentile per-packet one-way delay: 50.351 ms

Loss rate: 0.70%

-- Flow 1:

Average throughput: 56.13 Mbit/s

95th percentile per-packet one-way delay: 50.677 ms

Loss rate: 0.67%

-- Flow 2:

Average throughput: 47.40 Mbit/s

95th percentile per-packet one-way delay: 49.200 ms

Loss rate: 0.67%

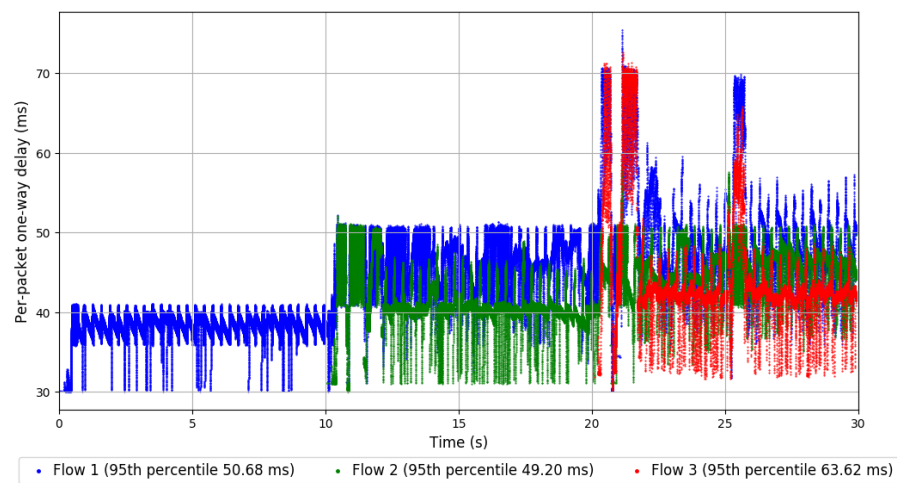
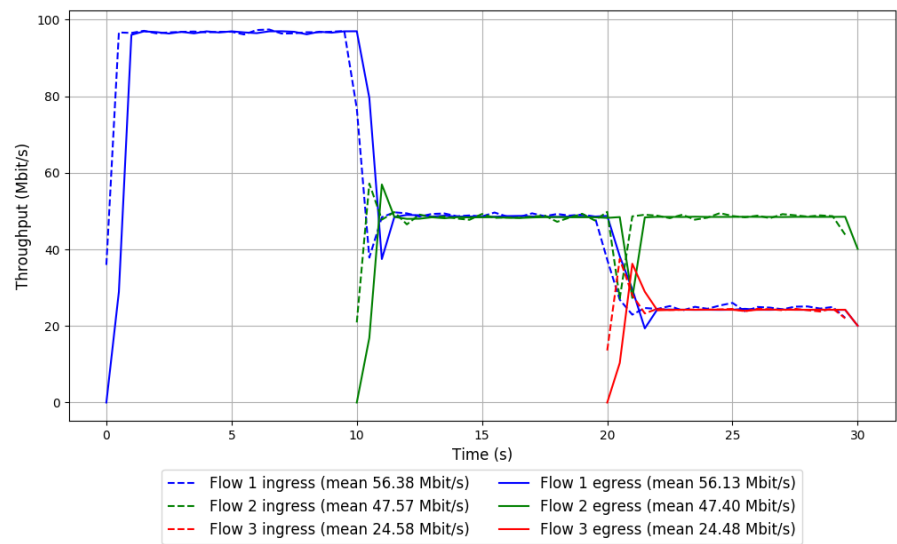
-- Flow 3:

Average throughput: 24.48 Mbit/s

95th percentile per-packet one-way delay: 63.617 ms

Loss rate: 1.09%

Run 10: Report of FillP-Sheep — Data Link



Run 1: Statistics of Indigo

Start at: 2018-07-18 09:14:35

End at: 2018-07-18 09:15:05

Local clock offset: 0.364 ms

Remote clock offset: 2.977 ms

# Below is generated by plot.py at 2018-07-18 13:09:49

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.63 Mbit/s

95th percentile per-packet one-way delay: 43.388 ms

Loss rate: 0.38%

-- Flow 1:

Average throughput: 59.30 Mbit/s

95th percentile per-packet one-way delay: 45.378 ms

Loss rate: 0.27%

-- Flow 2:

Average throughput: 39.37 Mbit/s

95th percentile per-packet one-way delay: 42.413 ms

Loss rate: 0.47%

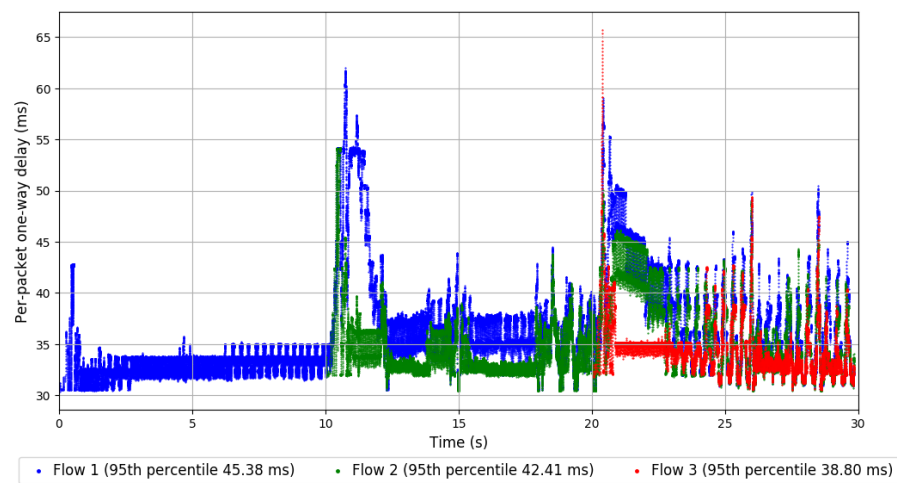
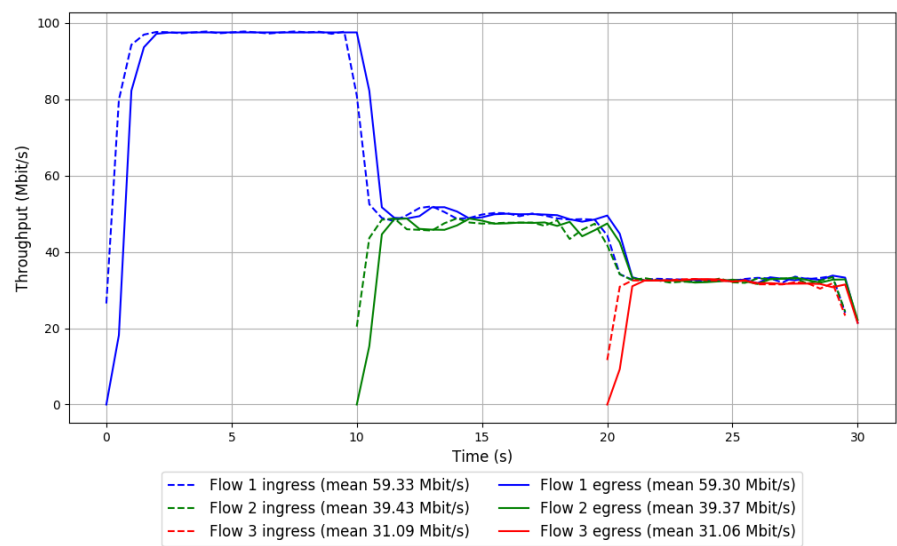
-- Flow 3:

Average throughput: 31.06 Mbit/s

95th percentile per-packet one-way delay: 38.796 ms

Loss rate: 0.76%

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2018-07-18 09:37:37

End at: 2018-07-18 09:38:07

Local clock offset: 0.247 ms

Remote clock offset: 3.562 ms

# Below is generated by plot.py at 2018-07-18 13:09:54

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.41 Mbit/s

95th percentile per-packet one-way delay: 44.625 ms

Loss rate: 0.33%

-- Flow 1:

Average throughput: 56.12 Mbit/s

95th percentile per-packet one-way delay: 45.660 ms

Loss rate: 0.22%

-- Flow 2:

Average throughput: 36.01 Mbit/s

95th percentile per-packet one-way delay: 42.903 ms

Loss rate: 0.32%

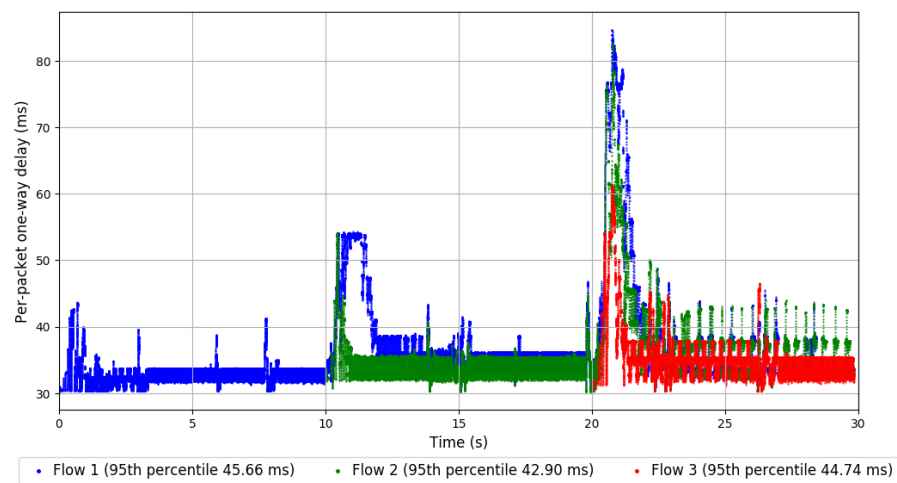
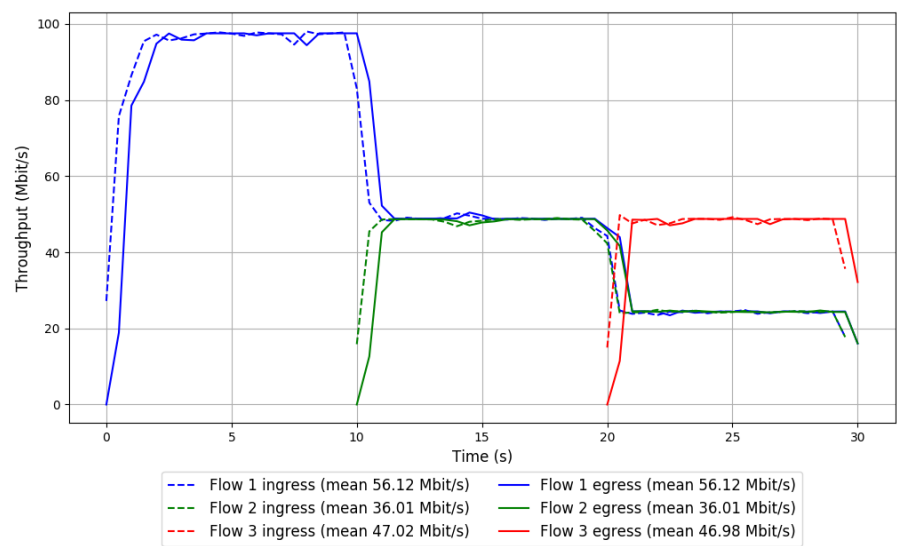
-- Flow 3:

Average throughput: 46.98 Mbit/s

95th percentile per-packet one-way delay: 44.741 ms

Loss rate: 0.75%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-07-18 10:01:04

End at: 2018-07-18 10:01:34

Local clock offset: 0.211 ms

Remote clock offset: 3.806 ms

# Below is generated by plot.py at 2018-07-18 13:09:54

# Datalink statistics

-- Total of 3 flows:

Average throughput: 94.51 Mbit/s

95th percentile per-packet one-way delay: 42.079 ms

Loss rate: 0.41%

-- Flow 1:

Average throughput: 62.86 Mbit/s

95th percentile per-packet one-way delay: 40.226 ms

Loss rate: 0.34%

-- Flow 2:

Average throughput: 36.09 Mbit/s

95th percentile per-packet one-way delay: 46.322 ms

Loss rate: 0.37%

-- Flow 3:

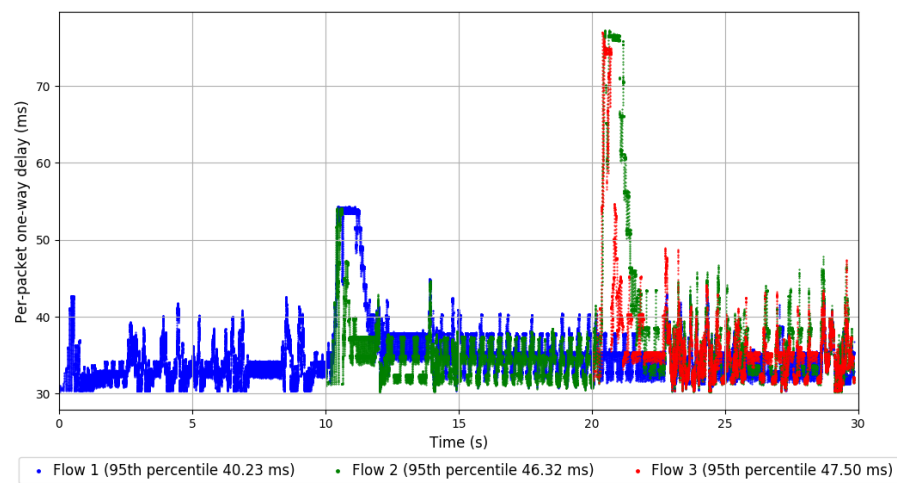
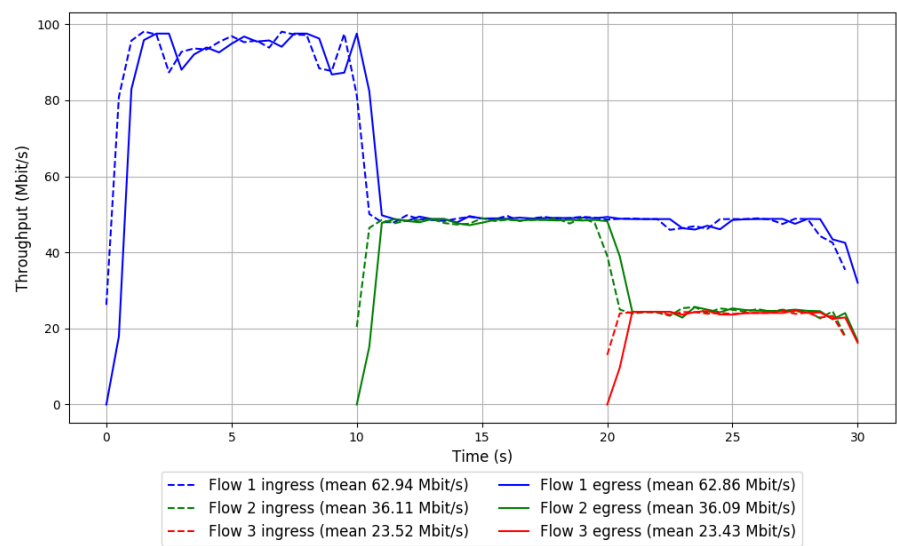
Average throughput: 23.43 Mbit/s

95th percentile per-packet one-way delay: 47.504 ms

Loss rate: 1.07%



Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-07-18 10:24:59

End at: 2018-07-18 10:25:29

Local clock offset: 0.22 ms

Remote clock offset: 3.699 ms

# Below is generated by plot.py at 2018-07-18 13:09:59

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.69 Mbit/s

95th percentile per-packet one-way delay: 44.002 ms

Loss rate: 0.32%

-- Flow 1:

Average throughput: 58.92 Mbit/s

95th percentile per-packet one-way delay: 45.571 ms

Loss rate: 0.24%

-- Flow 2:

Average throughput: 39.81 Mbit/s

95th percentile per-packet one-way delay: 40.129 ms

Loss rate: 0.30%

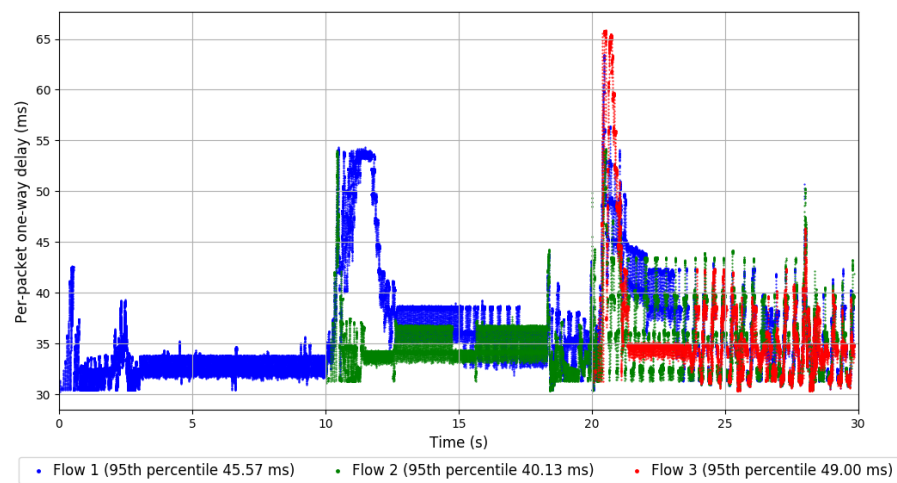
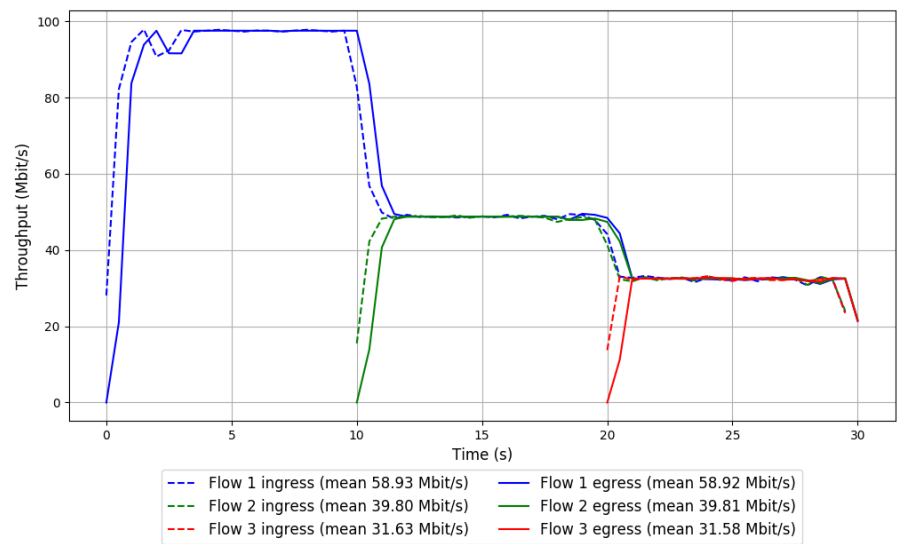
-- Flow 3:

Average throughput: 31.58 Mbit/s

95th percentile per-packet one-way delay: 48.998 ms

Loss rate: 0.83%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-07-18 10:48:25

End at: 2018-07-18 10:48:55

Local clock offset: 0.14 ms

Remote clock offset: 2.891 ms

# Below is generated by plot.py at 2018-07-18 13:10:39

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.23 Mbit/s

95th percentile per-packet one-way delay: 44.737 ms

Loss rate: 0.32%

-- Flow 1:

Average throughput: 58.38 Mbit/s

95th percentile per-packet one-way delay: 44.017 ms

Loss rate: 0.22%

-- Flow 2:

Average throughput: 40.08 Mbit/s

95th percentile per-packet one-way delay: 44.665 ms

Loss rate: 0.36%

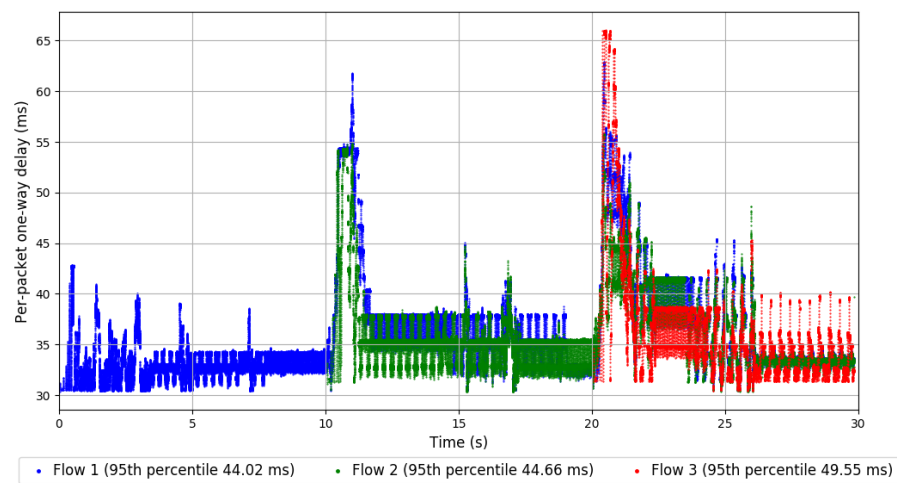
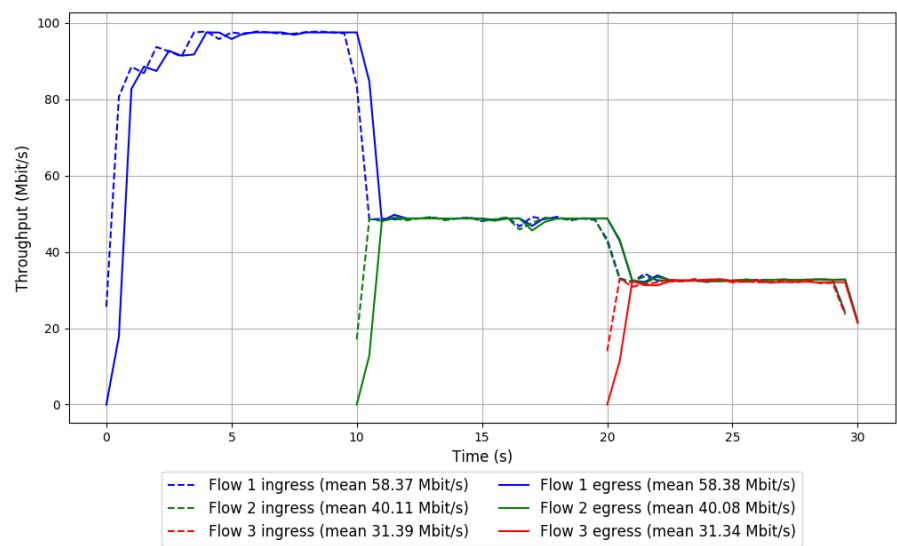
-- Flow 3:

Average throughput: 31.34 Mbit/s

95th percentile per-packet one-way delay: 49.554 ms

Loss rate: 0.81%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2018-07-18 11:12:02

End at: 2018-07-18 11:12:32

Local clock offset: 0.211 ms

Remote clock offset: 3.104 ms

# Below is generated by plot.py at 2018-07-18 13:10:46

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.38 Mbit/s

95th percentile per-packet one-way delay: 43.674 ms

Loss rate: 0.42%

-- Flow 1:

Average throughput: 58.74 Mbit/s

95th percentile per-packet one-way delay: 44.244 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 39.57 Mbit/s

95th percentile per-packet one-way delay: 42.772 ms

Loss rate: 0.46%

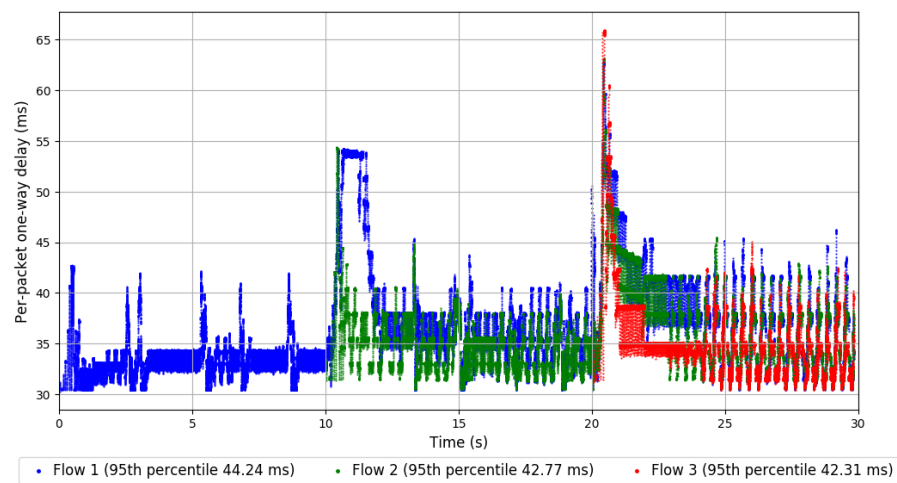
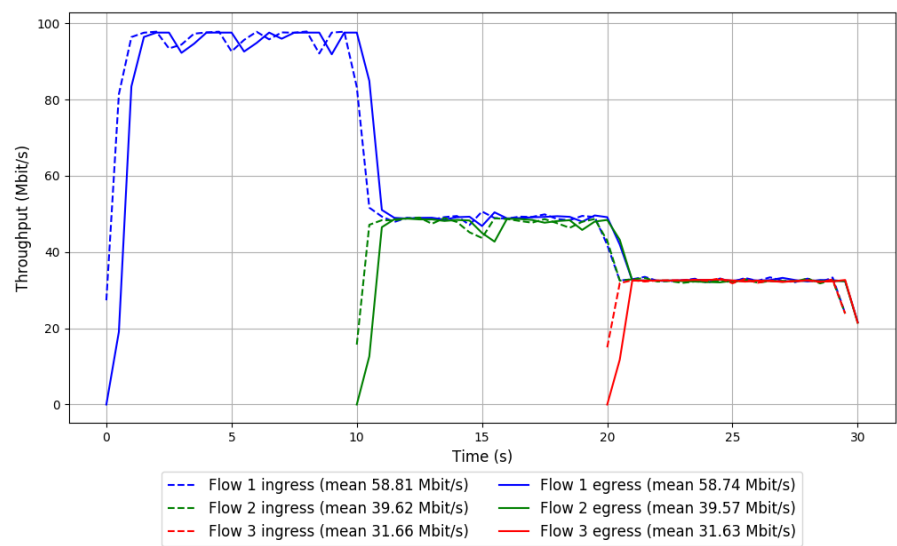
-- Flow 3:

Average throughput: 31.63 Mbit/s

95th percentile per-packet one-way delay: 42.306 ms

Loss rate: 0.75%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2018-07-18 11:35:33

End at: 2018-07-18 11:36:03

Local clock offset: 0.069 ms

Remote clock offset: 3.513 ms

# Below is generated by plot.py at 2018-07-18 13:10:51

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.90 Mbit/s

95th percentile per-packet one-way delay: 43.972 ms

Loss rate: 0.34%

-- Flow 1:

Average throughput: 58.86 Mbit/s

95th percentile per-packet one-way delay: 43.312 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 40.17 Mbit/s

95th percentile per-packet one-way delay: 43.974 ms

Loss rate: 0.39%

-- Flow 3:

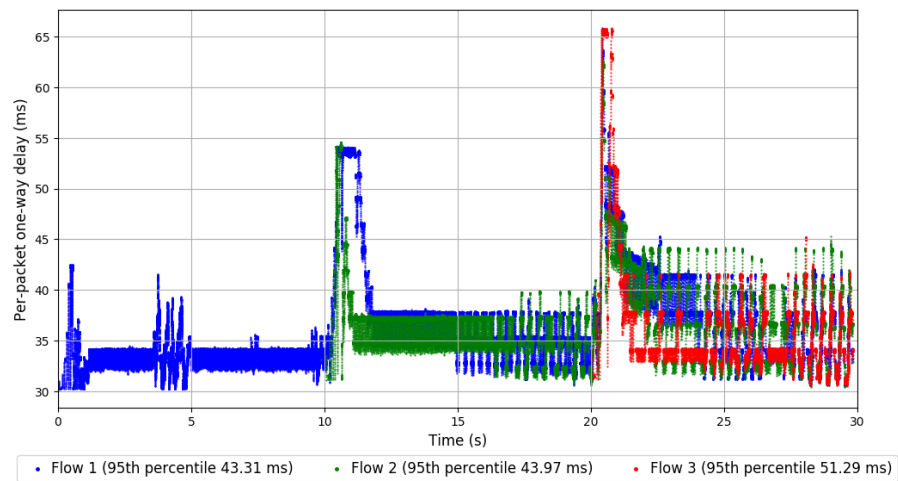
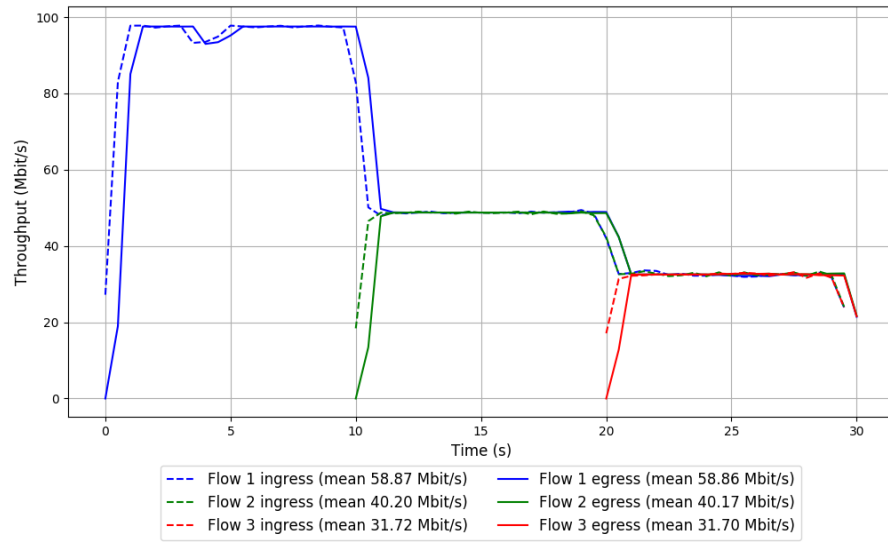
Average throughput: 31.70 Mbit/s

95th percentile per-packet one-way delay: 51.288 ms

Loss rate: 0.74%



## Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2018-07-18 11:59:12

End at: 2018-07-18 11:59:42

Local clock offset: -2.369 ms

Remote clock offset: 2.368 ms

# Below is generated by plot.py at 2018-07-18 13:10:52

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.40 Mbit/s

95th percentile per-packet one-way delay: 41.044 ms

Loss rate: 0.33%

-- Flow 1:

Average throughput: 63.68 Mbit/s

95th percentile per-packet one-way delay: 38.909 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 36.17 Mbit/s

95th percentile per-packet one-way delay: 44.571 ms

Loss rate: 0.38%

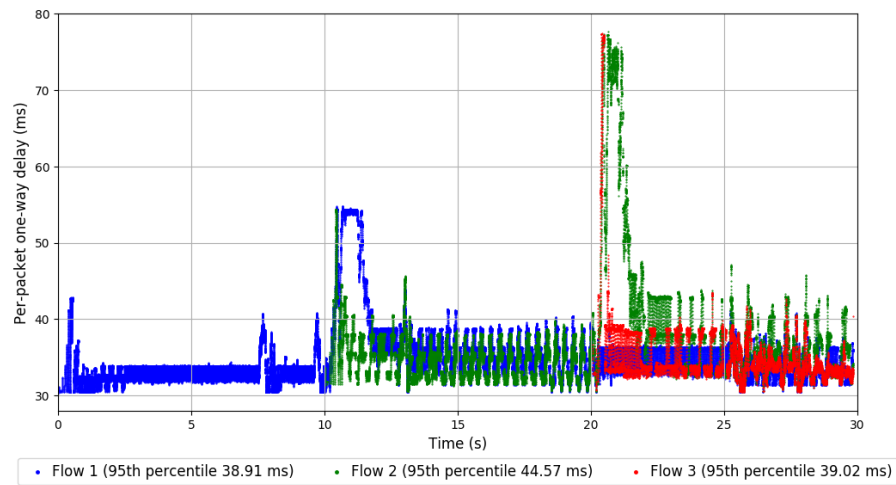
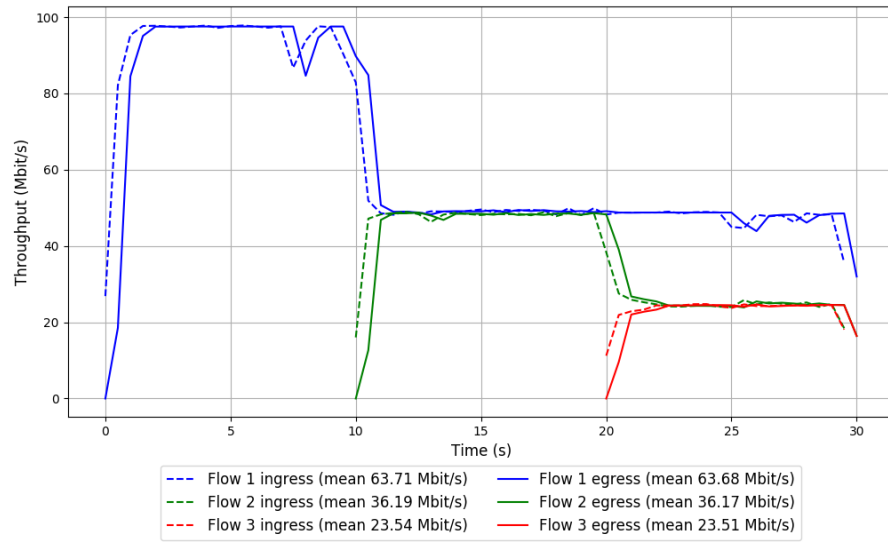
-- Flow 3:

Average throughput: 23.51 Mbit/s

95th percentile per-packet one-way delay: 39.019 ms

Loss rate: 0.74%

## Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2018-07-18 12:22:37

End at: 2018-07-18 12:23:07

Local clock offset: -3.98 ms

Remote clock offset: 1.594 ms

# Below is generated by plot.py at 2018-07-18 13:10:57

# Datalink statistics

-- Total of 3 flows:

Average throughput: 96.10 Mbit/s

95th percentile per-packet one-way delay: 43.417 ms

Loss rate: 0.33%

-- Flow 1:

Average throughput: 56.57 Mbit/s

95th percentile per-packet one-way delay: 42.584 ms

Loss rate: 0.18%

-- Flow 2:

Average throughput: 36.40 Mbit/s

95th percentile per-packet one-way delay: 48.634 ms

Loss rate: 0.41%

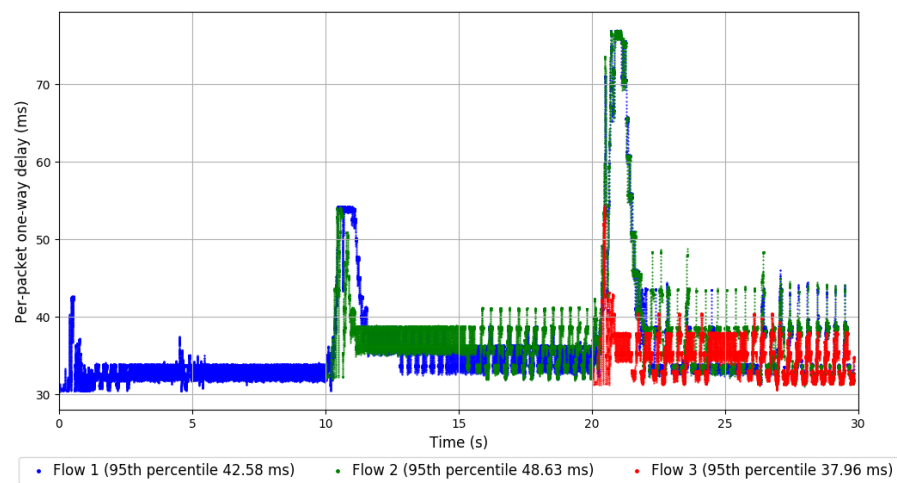
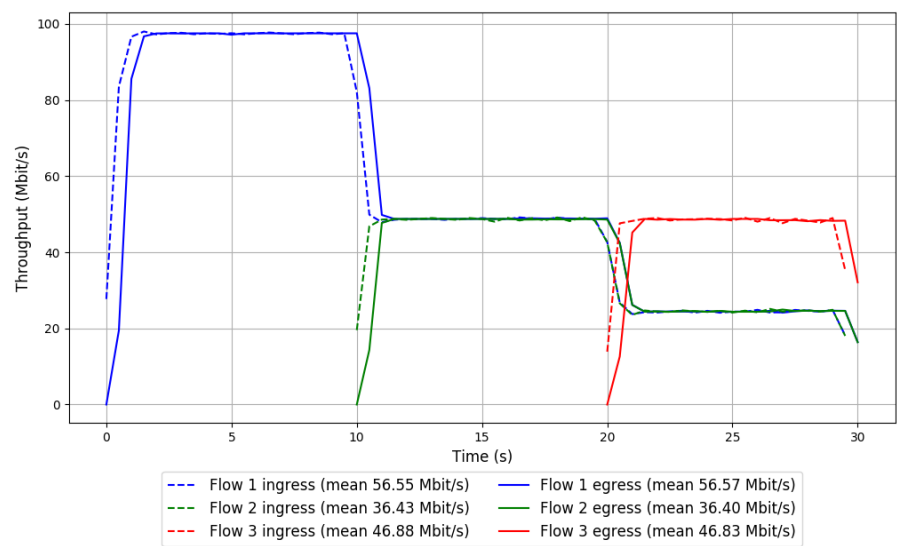
-- Flow 3:

Average throughput: 46.83 Mbit/s

95th percentile per-packet one-way delay: 37.959 ms

Loss rate: 0.75%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-07-18 12:45:59

End at: 2018-07-18 12:46:29

Local clock offset: -4.951 ms

Remote clock offset: 1.175 ms

# Below is generated by plot.py at 2018-07-18 13:11:01

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.89 Mbit/s

95th percentile per-packet one-way delay: 43.044 ms

Loss rate: 0.42%

-- Flow 1:

Average throughput: 58.98 Mbit/s

95th percentile per-packet one-way delay: 43.814 ms

Loss rate: 0.36%

-- Flow 2:

Average throughput: 40.06 Mbit/s

95th percentile per-packet one-way delay: 43.037 ms

Loss rate: 0.43%

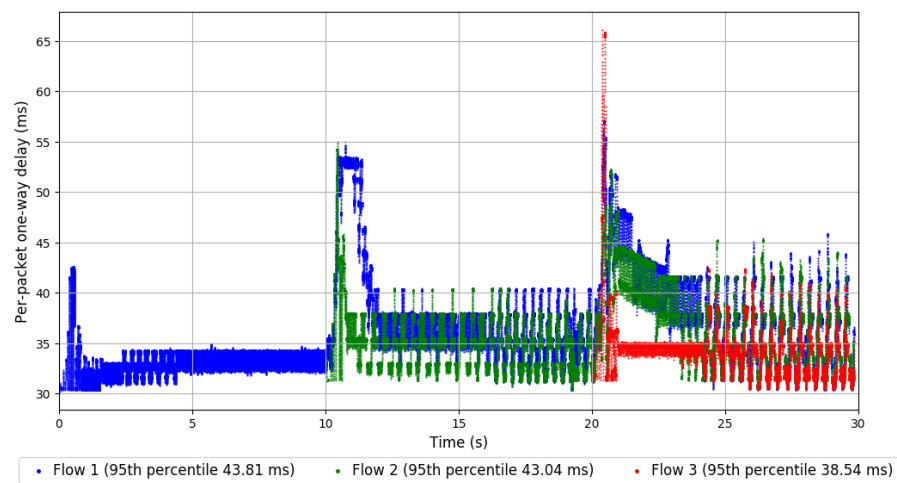
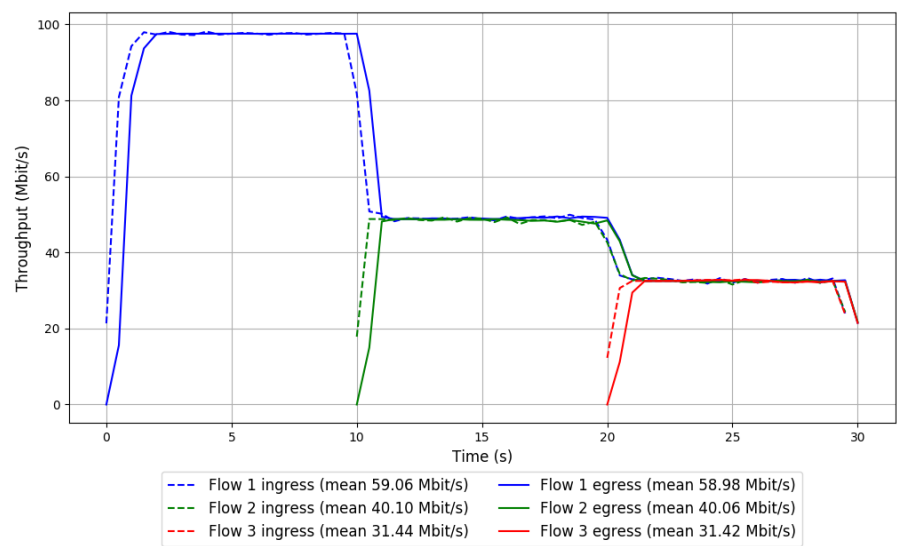
-- Flow 3:

Average throughput: 31.42 Mbit/s

95th percentile per-packet one-way delay: 38.537 ms

Loss rate: 0.73%

Run 10: Report of Indigo — Data Link



Run 1: Statistics of LEDBAT

Start at: 2018-07-18 09:17:16

End at: 2018-07-18 09:17:46

Local clock offset: 0.29 ms

Remote clock offset: 3.181 ms

# Below is generated by plot.py at 2018-07-18 13:11:01

# Datalink statistics

-- Total of 3 flows:

Average throughput: 48.94 Mbit/s

95th percentile per-packet one-way delay: 35.669 ms

Loss rate: 0.46%

-- Flow 1:

Average throughput: 23.24 Mbit/s

95th percentile per-packet one-way delay: 35.459 ms

Loss rate: 0.27%

-- Flow 2:

Average throughput: 29.82 Mbit/s

95th percentile per-packet one-way delay: 34.256 ms

Loss rate: 0.61%

-- Flow 3:

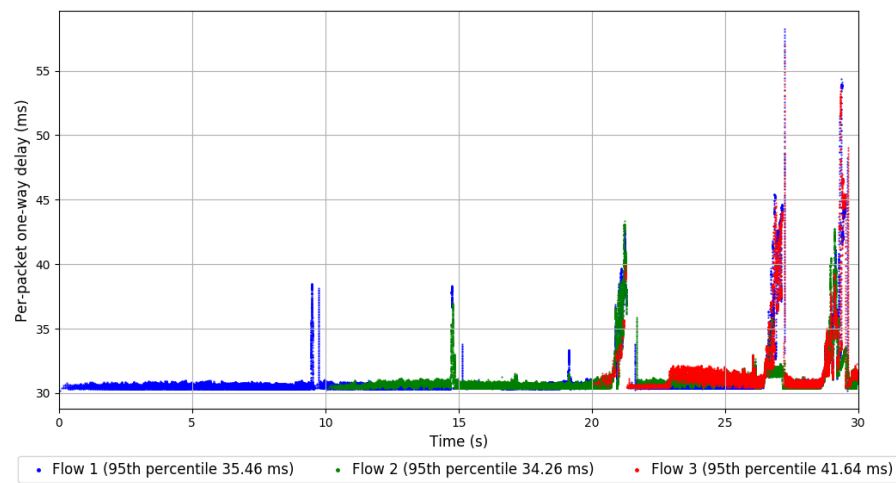
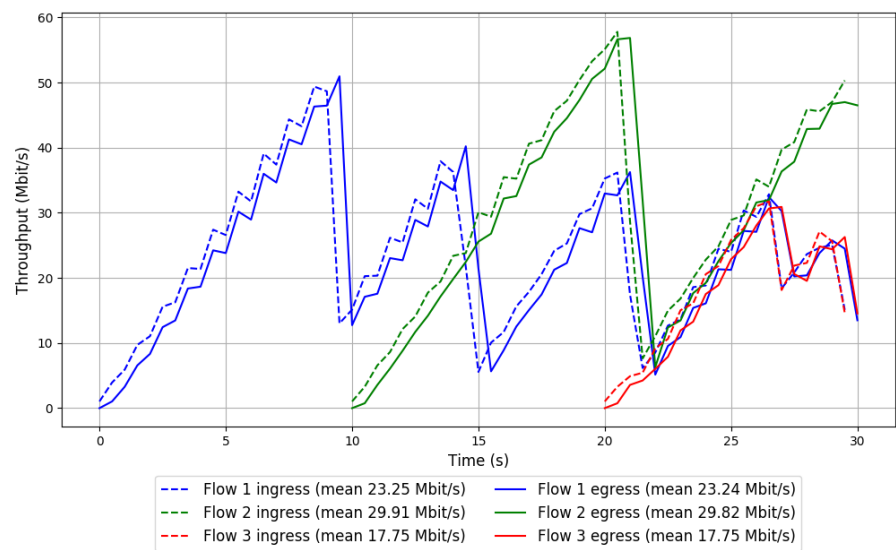
Average throughput: 17.75 Mbit/s

95th percentile per-packet one-way delay: 41.637 ms

Loss rate: 0.68%



Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-07-18 09:40:18

End at: 2018-07-18 09:40:48

Local clock offset: 0.362 ms

Remote clock offset: 3.604 ms

# Below is generated by plot.py at 2018-07-18 13:11:01

# Datalink statistics

-- Total of 3 flows:

Average throughput: 60.01 Mbit/s

95th percentile per-packet one-way delay: 35.912 ms

Loss rate: 0.35%

-- Flow 1:

Average throughput: 36.04 Mbit/s

95th percentile per-packet one-way delay: 36.319 ms

Loss rate: 0.20%

-- Flow 2:

Average throughput: 27.52 Mbit/s

95th percentile per-packet one-way delay: 34.295 ms

Loss rate: 0.54%

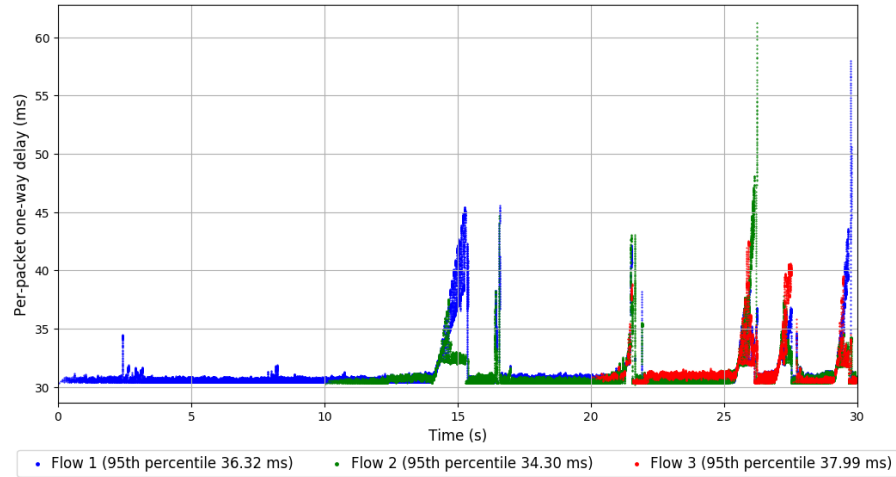
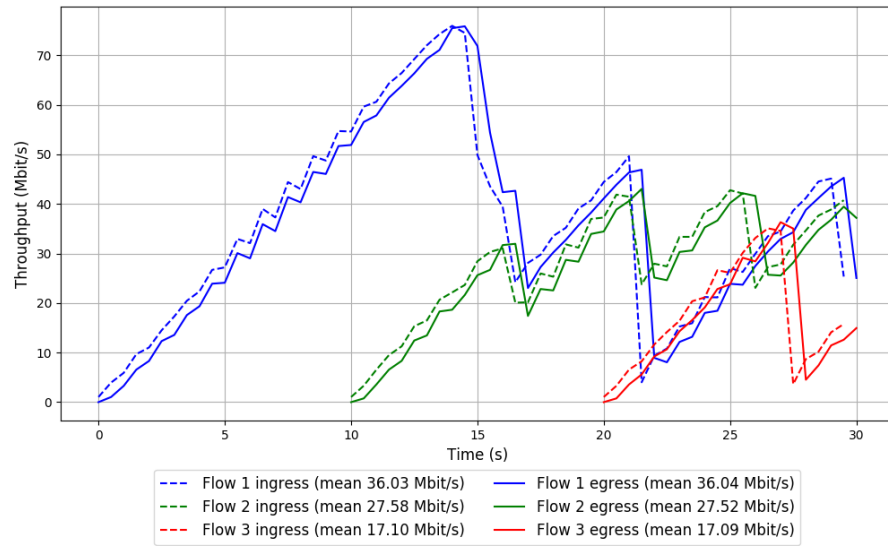
-- Flow 3:

Average throughput: 17.09 Mbit/s

95th percentile per-packet one-way delay: 37.986 ms

Loss rate: 0.72%

## Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-07-18 10:03:51

End at: 2018-07-18 10:04:21

Local clock offset: 0.29 ms

Remote clock offset: 3.693 ms

# Below is generated by plot.py at 2018-07-18 13:11:15

# Datalink statistics

-- Total of 3 flows:

Average throughput: 59.04 Mbit/s

95th percentile per-packet one-way delay: 36.605 ms

Loss rate: 0.43%

-- Flow 1:

Average throughput: 36.65 Mbit/s

95th percentile per-packet one-way delay: 35.889 ms

Loss rate: 0.34%

-- Flow 2:

Average throughput: 23.14 Mbit/s

95th percentile per-packet one-way delay: 36.685 ms

Loss rate: 0.35%

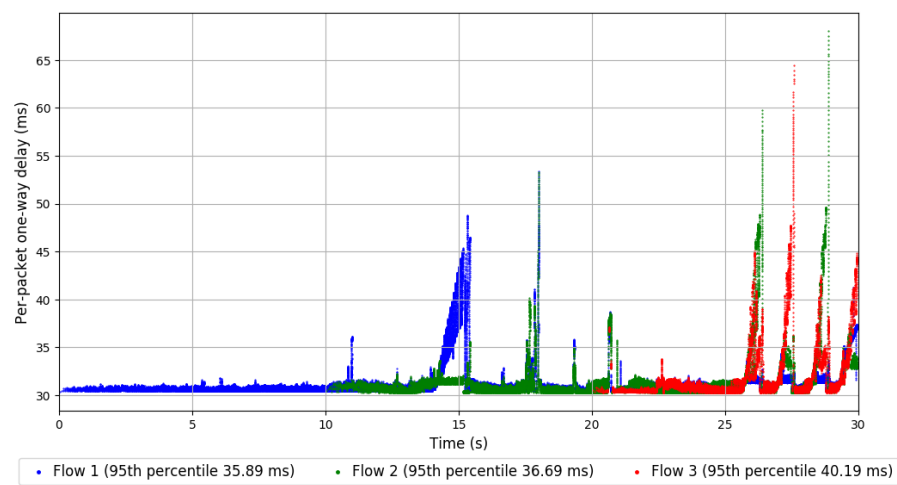
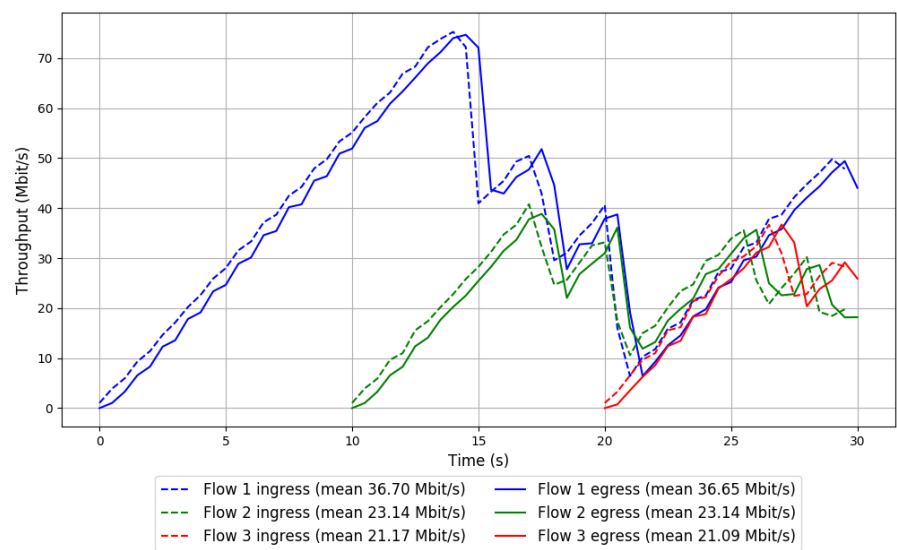
-- Flow 3:

Average throughput: 21.09 Mbit/s

95th percentile per-packet one-way delay: 40.193 ms

Loss rate: 1.03%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-07-18 10:27:39

End at: 2018-07-18 10:28:09

Local clock offset: 0.101 ms

Remote clock offset: 3.684 ms

# Below is generated by plot.py at 2018-07-18 13:11:26

# Datalink statistics

-- Total of 3 flows:

Average throughput: 59.67 Mbit/s

95th percentile per-packet one-way delay: 36.380 ms

Loss rate: 0.35%

-- Flow 1:

Average throughput: 35.11 Mbit/s

95th percentile per-packet one-way delay: 36.186 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 26.93 Mbit/s

95th percentile per-packet one-way delay: 35.295 ms

Loss rate: 0.23%

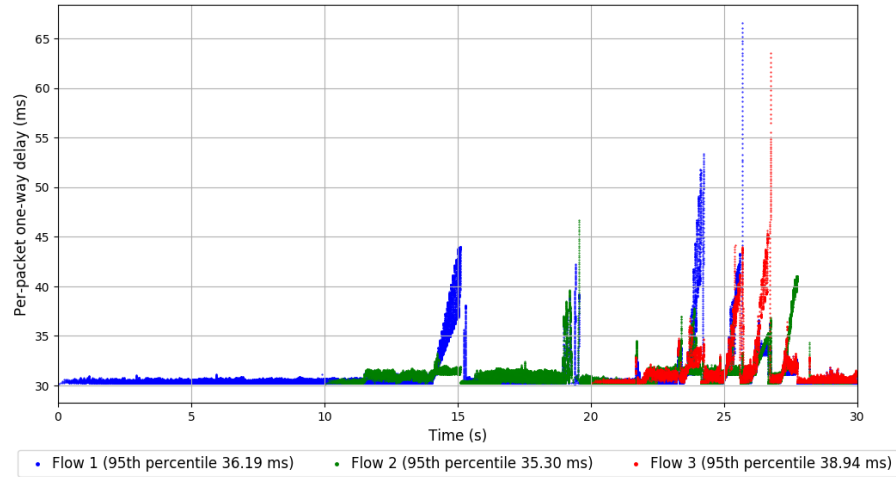
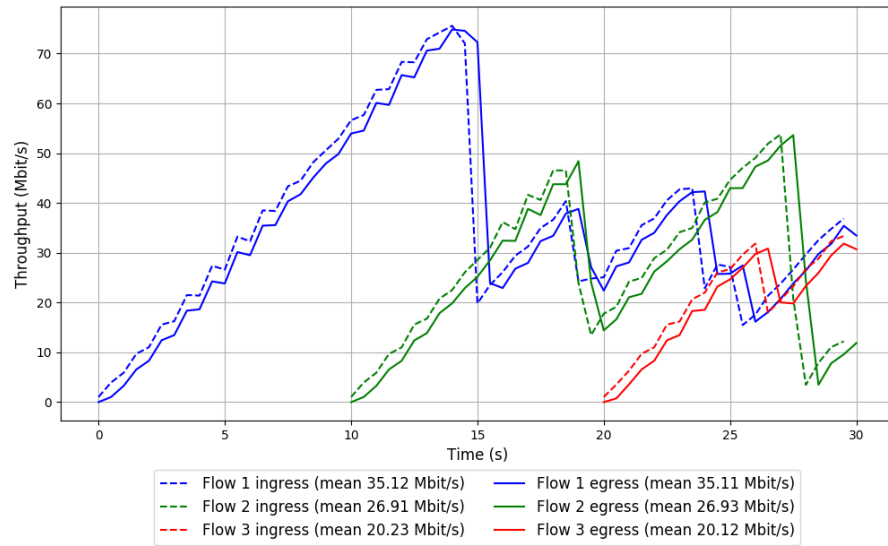
-- Flow 3:

Average throughput: 20.12 Mbit/s

95th percentile per-packet one-way delay: 38.940 ms

Loss rate: 1.17%

# Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-07-18 10:51:07

End at: 2018-07-18 10:51:37

Local clock offset: 0.181 ms

Remote clock offset: 2.938 ms

# Below is generated by plot.py at 2018-07-18 13:11:26

# Datalink statistics

-- Total of 3 flows:

Average throughput: 36.50 Mbit/s

95th percentile per-packet one-way delay: 34.195 ms

Loss rate: 0.75%

-- Flow 1:

Average throughput: 21.92 Mbit/s

95th percentile per-packet one-way delay: 33.066 ms

Loss rate: 0.53%

-- Flow 2:

Average throughput: 14.44 Mbit/s

95th percentile per-packet one-way delay: 37.935 ms

Loss rate: 0.74%

-- Flow 3:

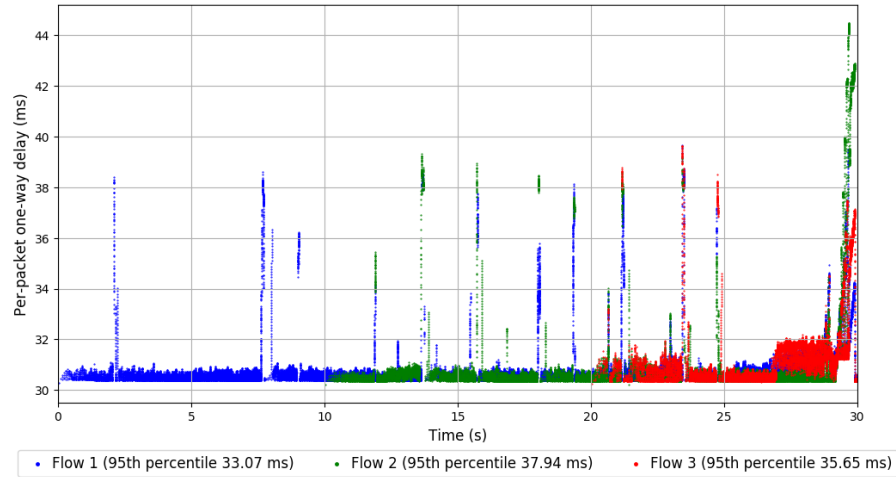
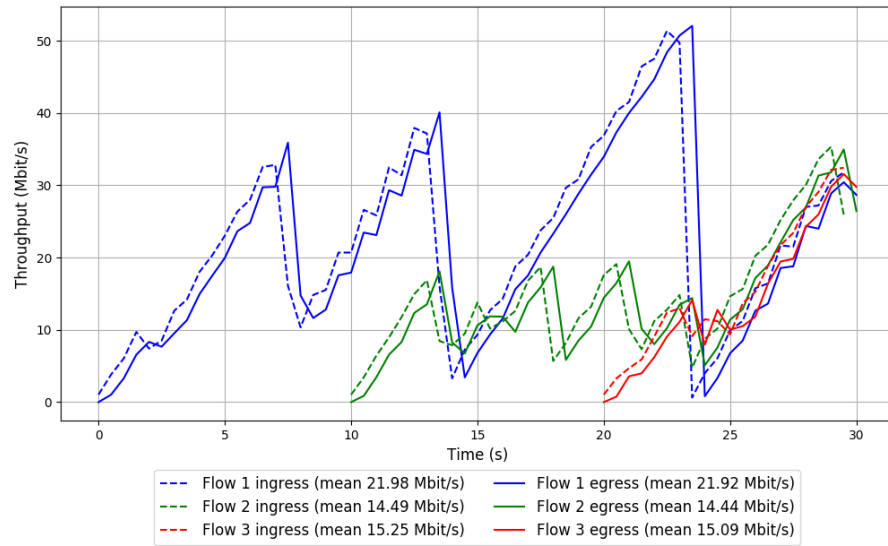
Average throughput: 15.09 Mbit/s

95th percentile per-packet one-way delay: 35.646 ms

Loss rate: 1.71%



# Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-07-18 11:14:42

End at: 2018-07-18 11:15:12

Local clock offset: 0.224 ms

Remote clock offset: 3.197 ms

# Below is generated by plot.py at 2018-07-18 13:11:26

# Datalink statistics

-- Total of 3 flows:

Average throughput: 45.33 Mbit/s

95th percentile per-packet one-way delay: 33.438 ms

Loss rate: 0.35%

-- Flow 1:

Average throughput: 29.91 Mbit/s

95th percentile per-packet one-way delay: 32.834 ms

Loss rate: 0.19%

-- Flow 2:

Average throughput: 15.92 Mbit/s

95th percentile per-packet one-way delay: 34.116 ms

Loss rate: 0.49%

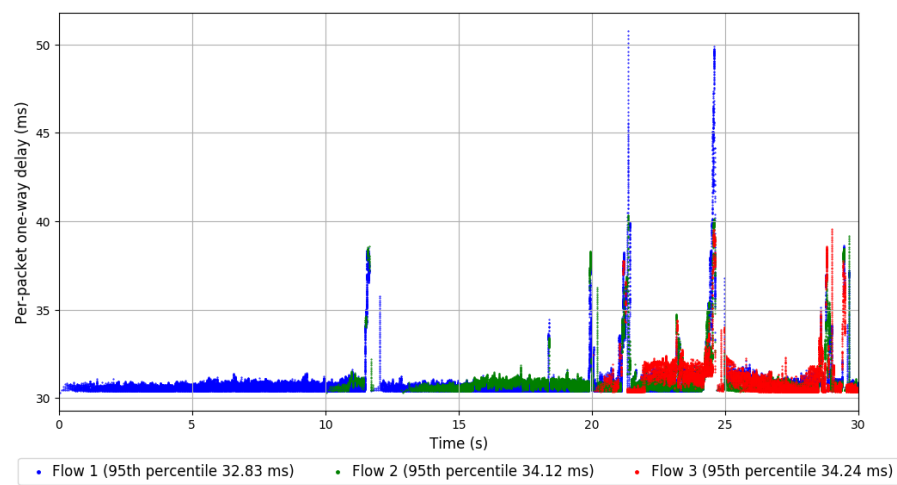
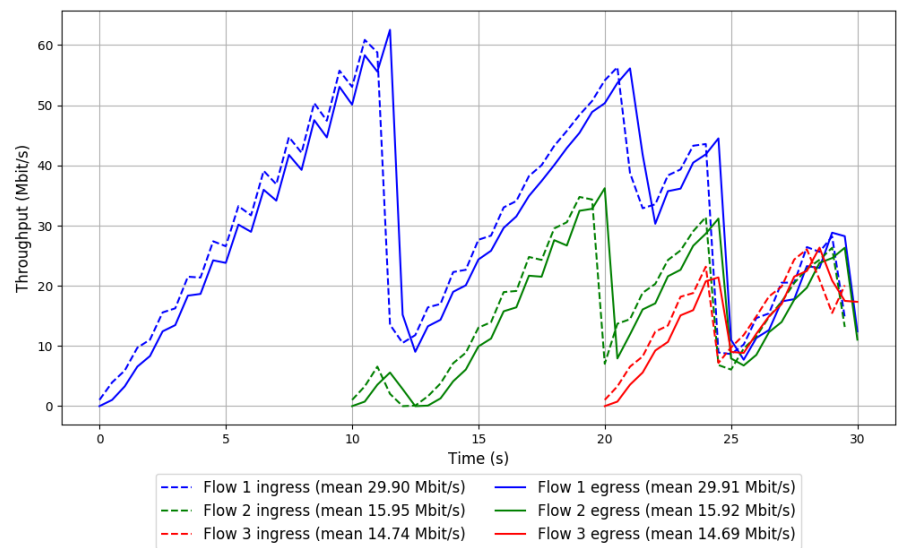
-- Flow 3:

Average throughput: 14.69 Mbit/s

95th percentile per-packet one-way delay: 34.243 ms

Loss rate: 1.03%

Run 6: Report of LEDBAT — Data Link

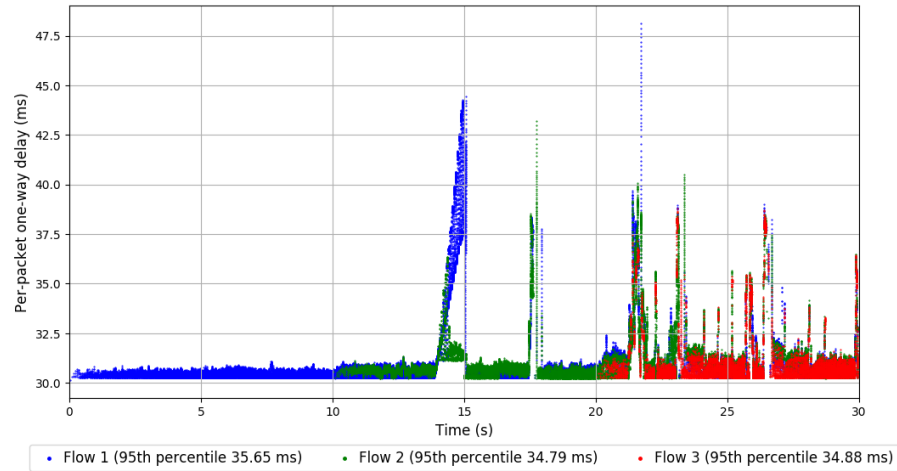
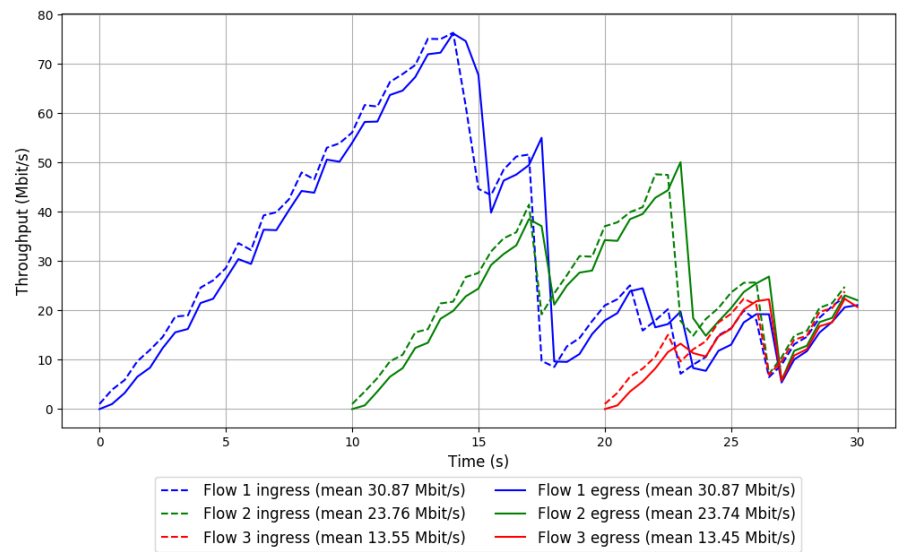


Run 7: Statistics of LEDBAT

Start at: 2018-07-18 11:38:14  
End at: 2018-07-18 11:38:44  
Local clock offset: 0.064 ms  
Remote clock offset: 3.606 ms

```
# Below is generated by plot.py at 2018-07-18 13:11:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 51.11 Mbit/s
95th percentile per-packet one-way delay: 35.188 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 30.87 Mbit/s
95th percentile per-packet one-way delay: 35.646 ms
Loss rate: 0.24%
-- Flow 2:
Average throughput: 23.74 Mbit/s
95th percentile per-packet one-way delay: 34.791 ms
Loss rate: 0.43%
-- Flow 3:
Average throughput: 13.45 Mbit/s
95th percentile per-packet one-way delay: 34.880 ms
Loss rate: 1.37%
```

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-07-18 12:01:53

End at: 2018-07-18 12:02:23

Local clock offset: -2.645 ms

Remote clock offset: 2.207 ms

# Below is generated by plot.py at 2018-07-18 13:11:36

# Datalink statistics

-- Total of 3 flows:

Average throughput: 59.08 Mbit/s

95th percentile per-packet one-way delay: 37.749 ms

Loss rate: 0.38%

-- Flow 1:

Average throughput: 30.31 Mbit/s

95th percentile per-packet one-way delay: 37.147 ms

Loss rate: 0.23%

-- Flow 2:

Average throughput: 34.36 Mbit/s

95th percentile per-packet one-way delay: 35.909 ms

Loss rate: 0.48%

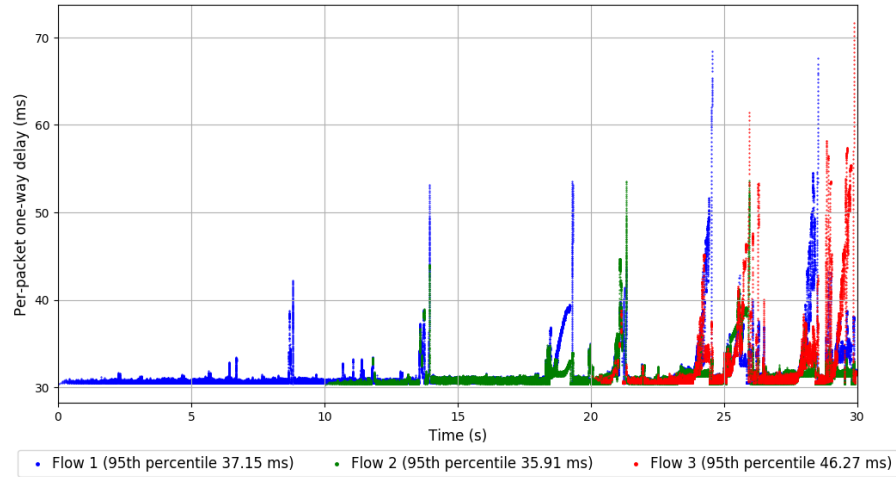
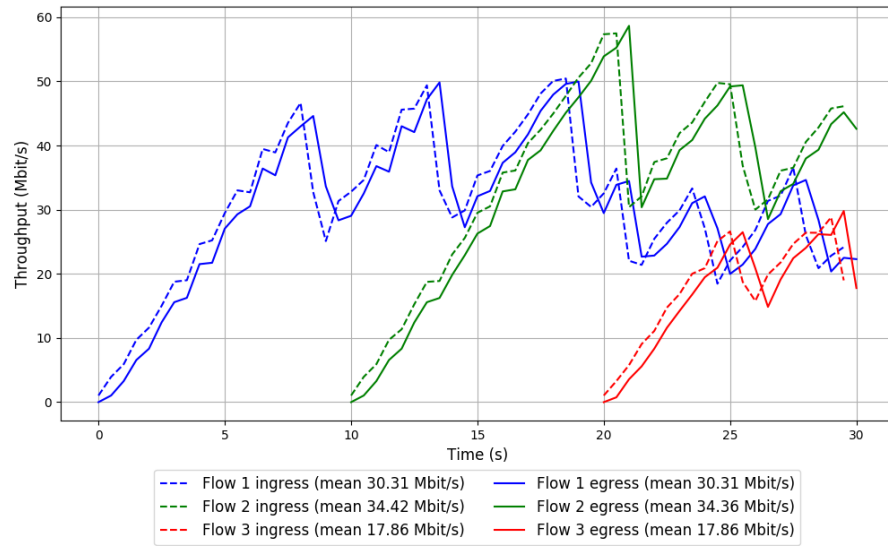
-- Flow 3:

Average throughput: 17.86 Mbit/s

95th percentile per-packet one-way delay: 46.266 ms

Loss rate: 0.69%

## Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-07-18 12:25:19

End at: 2018-07-18 12:25:49

Local clock offset: -4.103 ms

Remote clock offset: 1.478 ms

# Below is generated by plot.py at 2018-07-18 13:11:45

# Datalink statistics

-- Total of 3 flows:

Average throughput: 67.48 Mbit/s

95th percentile per-packet one-way delay: 37.786 ms

Loss rate: 0.33%

-- Flow 1:

Average throughput: 39.44 Mbit/s

95th percentile per-packet one-way delay: 37.344 ms

Loss rate: 0.23%

-- Flow 2:

Average throughput: 31.62 Mbit/s

95th percentile per-packet one-way delay: 38.847 ms

Loss rate: 0.30%

-- Flow 3:

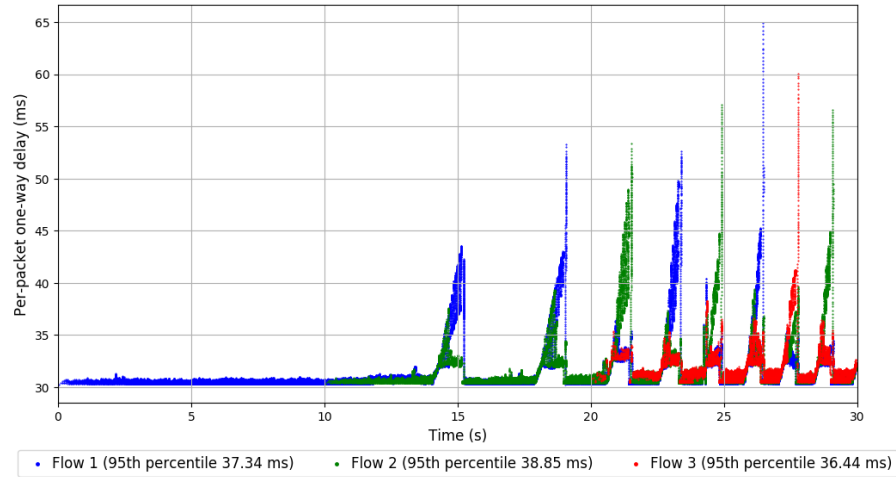
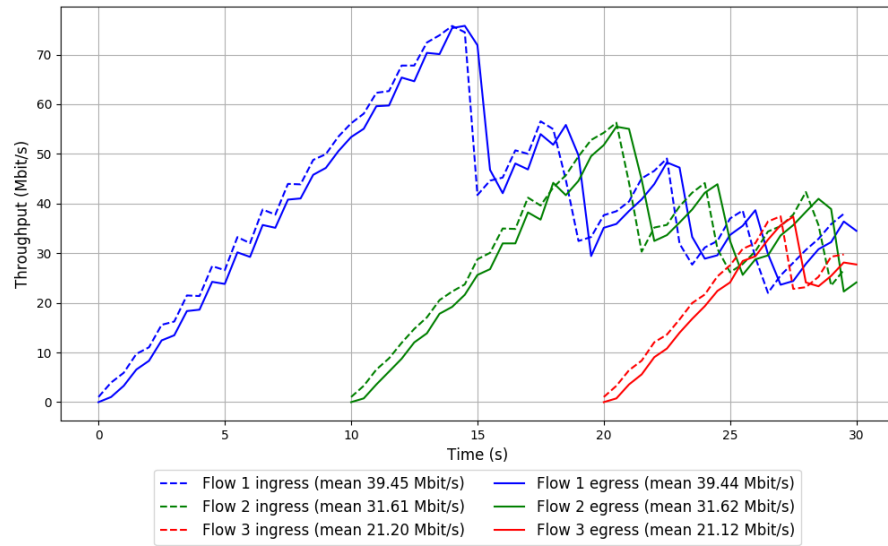
Average throughput: 21.12 Mbit/s

95th percentile per-packet one-way delay: 36.437 ms

Loss rate: 1.02%



# Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-07-18 12:48:39

End at: 2018-07-18 12:49:09

Local clock offset: -4.165 ms

Remote clock offset: 1.438 ms

# Below is generated by plot.py at 2018-07-18 13:11:47

# Datalink statistics

-- Total of 3 flows:

Average throughput: 65.49 Mbit/s

95th percentile per-packet one-way delay: 38.627 ms

Loss rate: 0.33%

-- Flow 1:

Average throughput: 40.73 Mbit/s

95th percentile per-packet one-way delay: 38.746 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 26.42 Mbit/s

95th percentile per-packet one-way delay: 35.220 ms

Loss rate: 0.61%

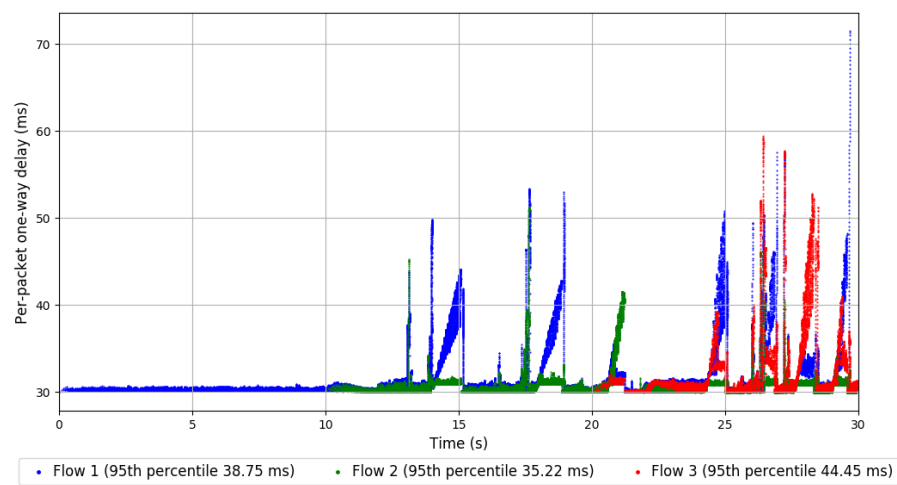
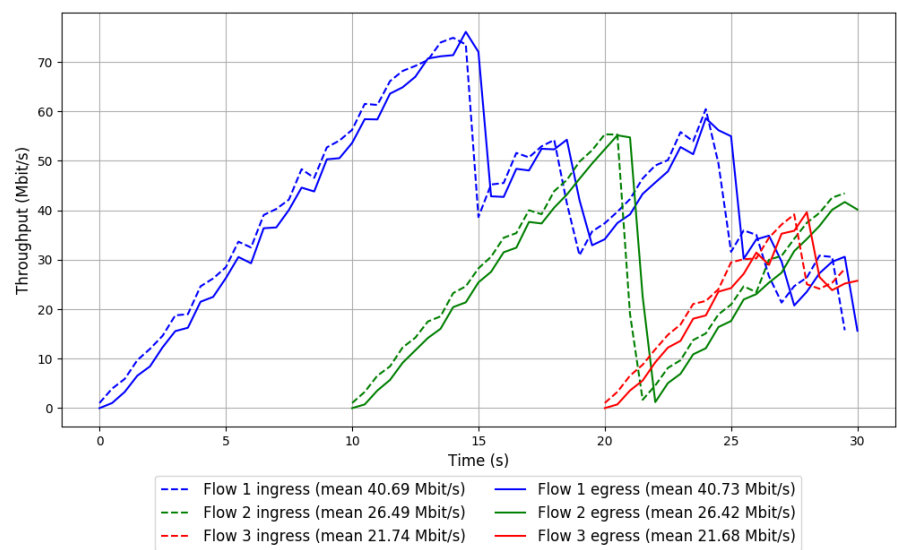
-- Flow 3:

Average throughput: 21.68 Mbit/s

95th percentile per-packet one-way delay: 44.452 ms

Loss rate: 0.94%

Run 10: Report of LEDBAT — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2018-07-18 09:13:15

End at: 2018-07-18 09:13:45

Local clock offset: 0.258 ms

Remote clock offset: 2.933 ms

# Below is generated by plot.py at 2018-07-18 13:12:14

# Datalink statistics

-- Total of 3 flows:

Average throughput: 92.78 Mbit/s

95th percentile per-packet one-way delay: 64.433 ms

Loss rate: 3.63%

-- Flow 1:

Average throughput: 68.68 Mbit/s

95th percentile per-packet one-way delay: 51.973 ms

Loss rate: 3.33%

-- Flow 2:

Average throughput: 27.10 Mbit/s

95th percentile per-packet one-way delay: 69.582 ms

Loss rate: 5.50%

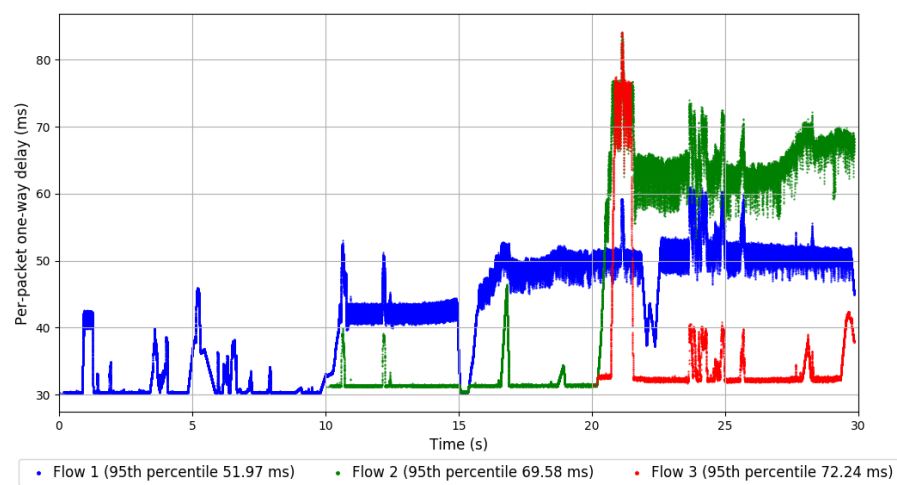
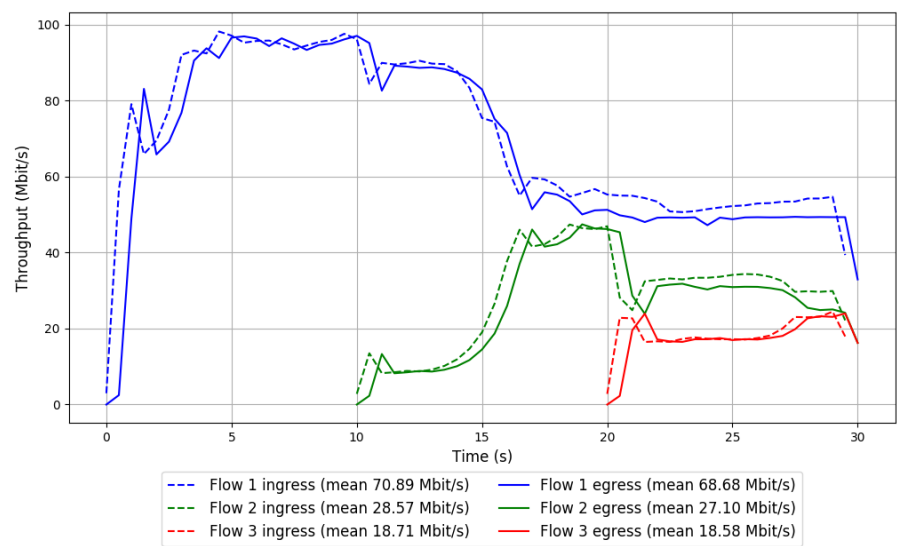
-- Flow 3:

Average throughput: 18.58 Mbit/s

95th percentile per-packet one-way delay: 72.239 ms

Loss rate: 1.39%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-07-18 09:36:16

End at: 2018-07-18 09:36:46

Local clock offset: 0.252 ms

Remote clock offset: 3.496 ms

# Below is generated by plot.py at 2018-07-18 13:12:20

# Datalink statistics

-- Total of 3 flows:

Average throughput: 92.15 Mbit/s

95th percentile per-packet one-way delay: 62.958 ms

Loss rate: 3.23%

-- Flow 1:

Average throughput: 58.08 Mbit/s

95th percentile per-packet one-way delay: 61.704 ms

Loss rate: 3.00%

-- Flow 2:

Average throughput: 36.30 Mbit/s

95th percentile per-packet one-way delay: 63.452 ms

Loss rate: 3.98%

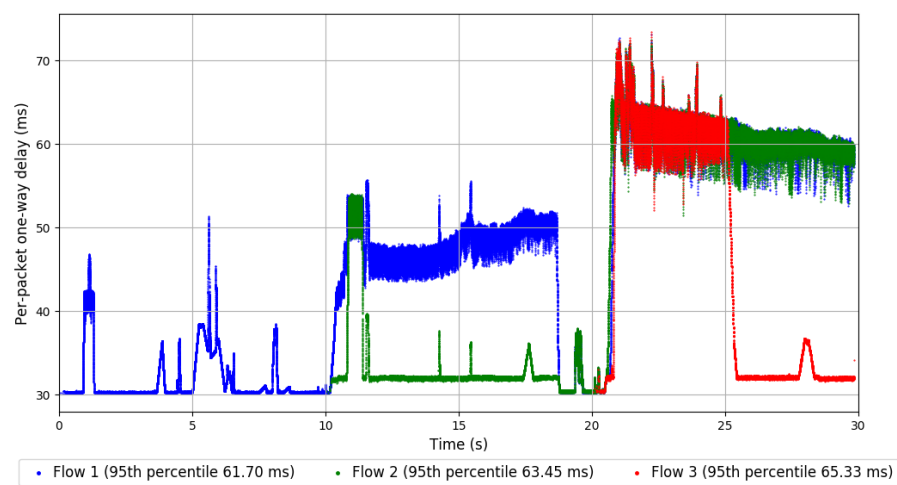
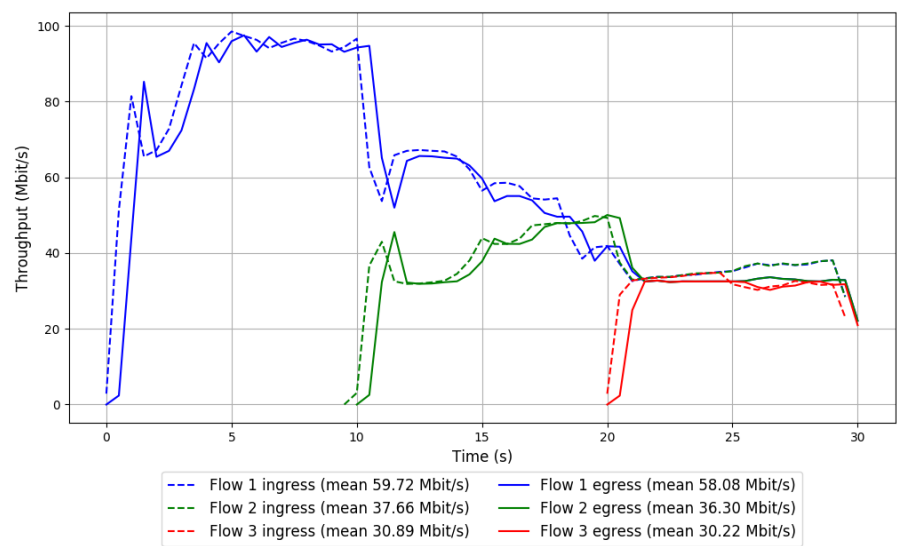
-- Flow 3:

Average throughput: 30.22 Mbit/s

95th percentile per-packet one-way delay: 65.330 ms

Loss rate: 2.79%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-07-18 09:59:44

End at: 2018-07-18 10:00:14

Local clock offset: 0.304 ms

Remote clock offset: 3.954 ms

# Below is generated by plot.py at 2018-07-18 13:12:25

# Datalink statistics

-- Total of 3 flows:

Average throughput: 92.70 Mbit/s

95th percentile per-packet one-way delay: 62.522 ms

Loss rate: 3.47%

-- Flow 1:

Average throughput: 58.06 Mbit/s

95th percentile per-packet one-way delay: 61.198 ms

Loss rate: 3.48%

-- Flow 2:

Average throughput: 37.21 Mbit/s

95th percentile per-packet one-way delay: 62.979 ms

Loss rate: 3.60%

-- Flow 3:

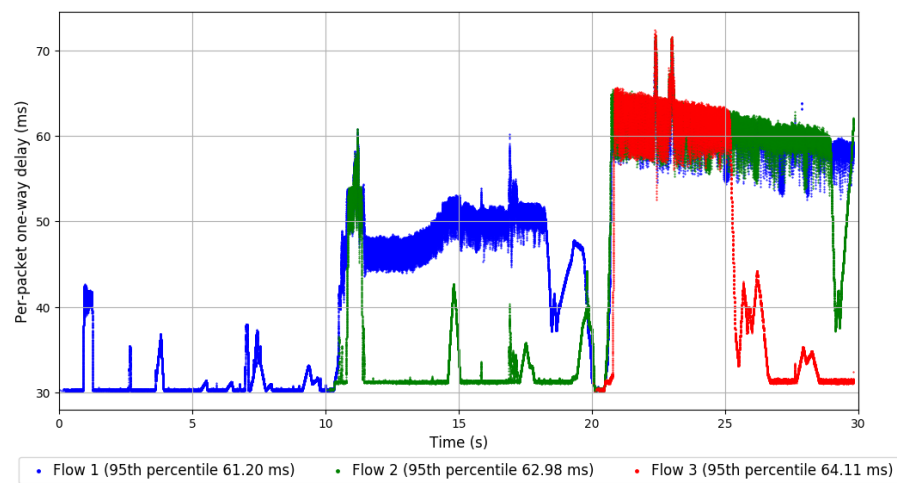
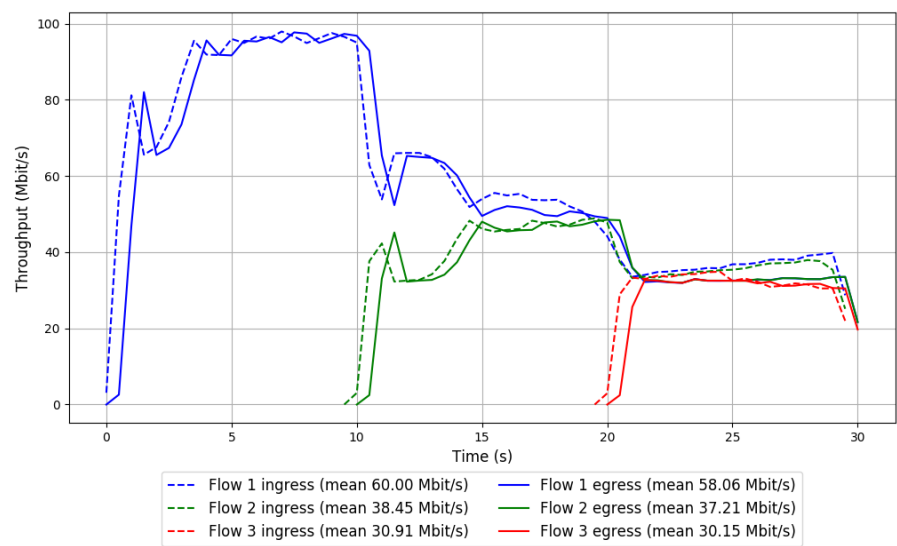
Average throughput: 30.15 Mbit/s

95th percentile per-packet one-way delay: 64.112 ms

Loss rate: 3.11%



Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-07-18 10:23:38

End at: 2018-07-18 10:24:08

Local clock offset: 0.218 ms

Remote clock offset: 3.551 ms

# Below is generated by plot.py at 2018-07-18 13:12:31

# Datalink statistics

-- Total of 3 flows:

Average throughput: 91.70 Mbit/s

95th percentile per-packet one-way delay: 63.739 ms

Loss rate: 3.09%

-- Flow 1:

Average throughput: 61.74 Mbit/s

95th percentile per-packet one-way delay: 51.737 ms

Loss rate: 2.75%

-- Flow 2:

Average throughput: 36.07 Mbit/s

95th percentile per-packet one-way delay: 67.848 ms

Loss rate: 4.37%

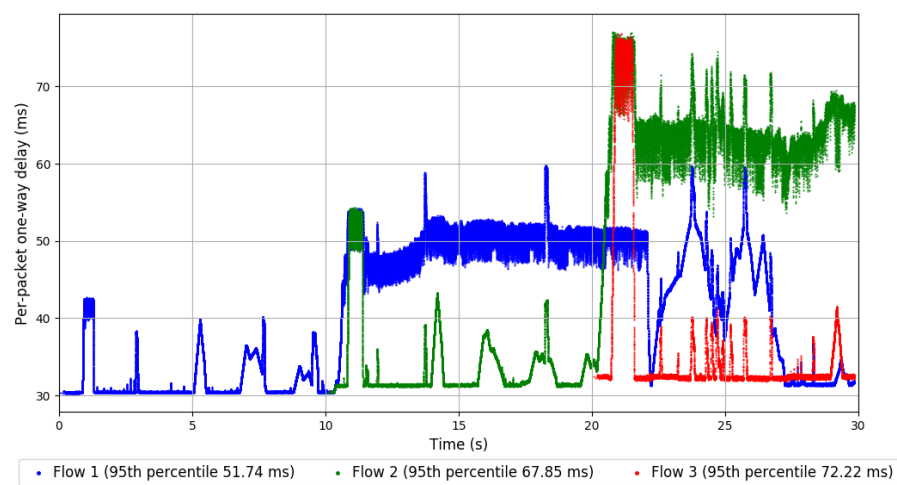
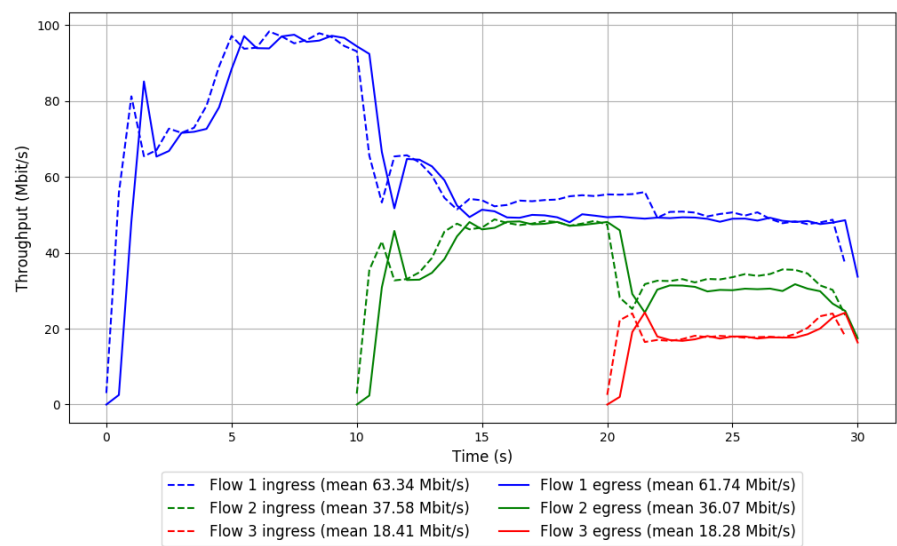
-- Flow 3:

Average throughput: 18.28 Mbit/s

95th percentile per-packet one-way delay: 72.221 ms

Loss rate: 1.42%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-07-18 10:47:02

End at: 2018-07-18 10:47:32

Local clock offset: 0.069 ms

Remote clock offset: 2.928 ms

# Below is generated by plot.py at 2018-07-18 13:12:37

# Datalink statistics

-- Total of 3 flows:

Average throughput: 92.33 Mbit/s

95th percentile per-packet one-way delay: 58.832 ms

Loss rate: 5.35%

-- Flow 1:

Average throughput: 59.21 Mbit/s

95th percentile per-packet one-way delay: 55.808 ms

Loss rate: 6.48%

-- Flow 2:

Average throughput: 39.25 Mbit/s

95th percentile per-packet one-way delay: 60.287 ms

Loss rate: 3.86%

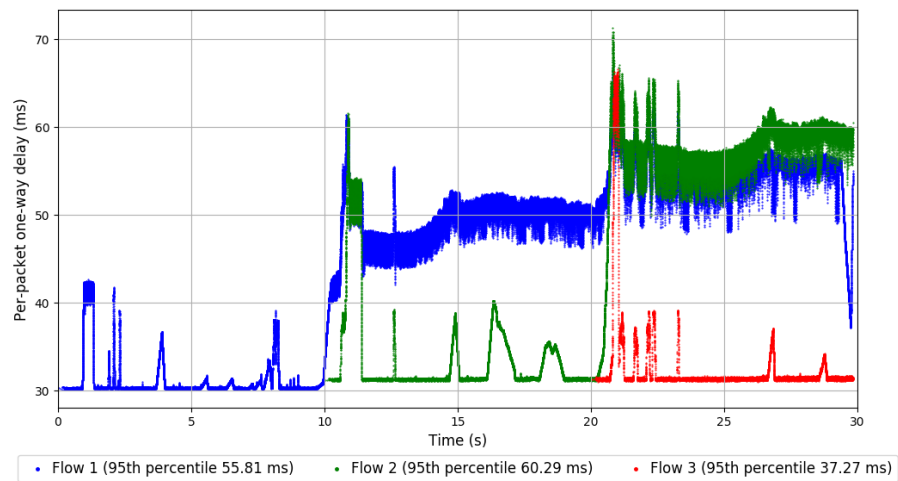
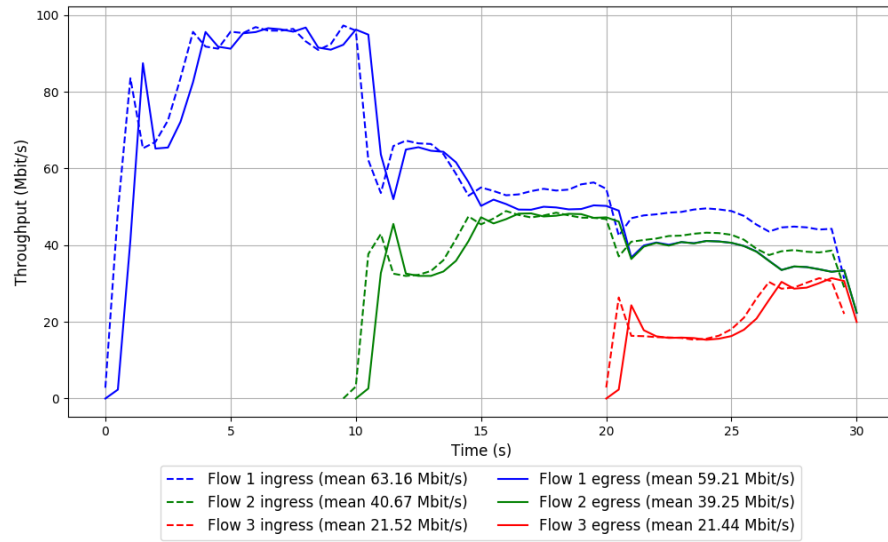
-- Flow 3:

Average throughput: 21.44 Mbit/s

95th percentile per-packet one-way delay: 37.269 ms

Loss rate: 1.06%

# Run 5: Report of PCC-Allegro — Data Link



Run 6: Statistics of PCC-Allegro

Start at: 2018-07-18 11:10:41

End at: 2018-07-18 11:11:11

Local clock offset: 0.216 ms

Remote clock offset: 3.186 ms

# Below is generated by plot.py at 2018-07-18 13:12:44

# Datalink statistics

-- Total of 3 flows:

Average throughput: 92.74 Mbit/s

95th percentile per-packet one-way delay: 66.212 ms

Loss rate: 5.17%

-- Flow 1:

Average throughput: 56.52 Mbit/s

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

Loss rate: 6.46%

-- Flow 2:

Average throughput: 34.10 Mbit/s

95th percentile per-packet one-way delay: 69.617 ms

Loss rate: 4.39%

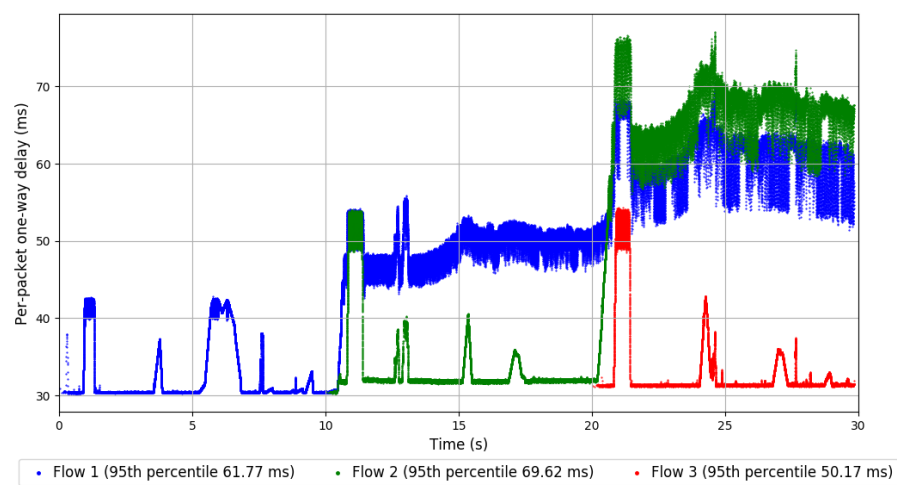
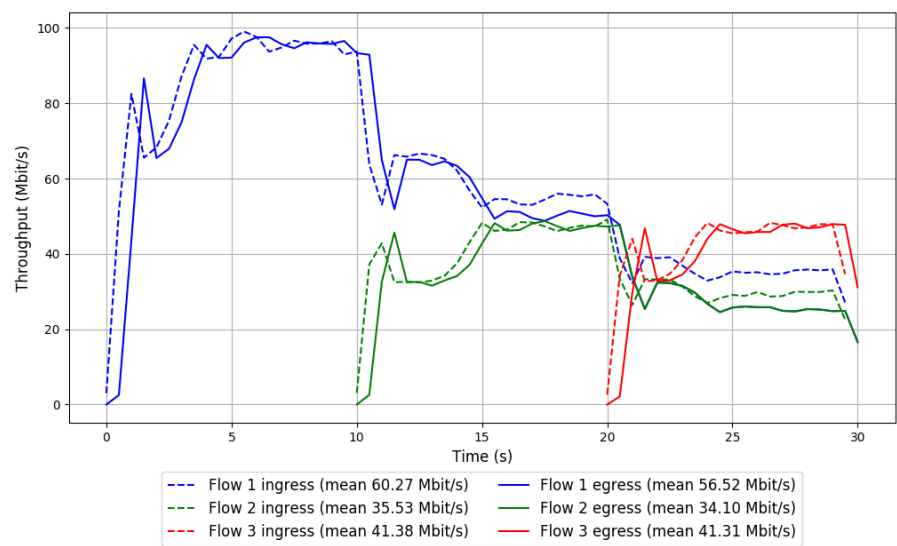
-- Flow 3:

Average throughput: 41.31 Mbit/s

95th percentile per-packet one-way delay: 50.166 ms

Loss rate: 0.83%

Run 6: Report of PCC-Allegro — Data Link



Run 7: Statistics of PCC-Allegro

Start at: 2018-07-18 11:34:12

End at: 2018-07-18 11:34:42

Local clock offset: 0.059 ms

Remote clock offset: 3.498 ms

# Below is generated by plot.py at 2018-07-18 13:12:54

# Datalink statistics

-- Total of 3 flows:

Average throughput: 92.79 Mbit/s

95th percentile per-packet one-way delay: 66.238 ms

Loss rate: 5.11%

-- Flow 1:

Average throughput: 55.68 Mbit/s

95th percentile per-packet one-way delay: 62.098 ms

Loss rate: 6.57%

-- Flow 2:

Average throughput: 35.35 Mbit/s

95th percentile per-packet one-way delay: 69.758 ms

Loss rate: 3.98%

-- Flow 3:

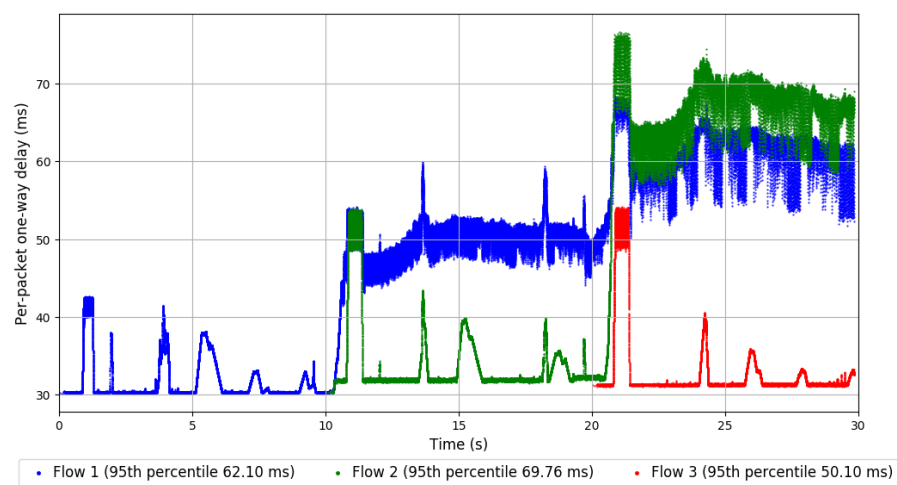
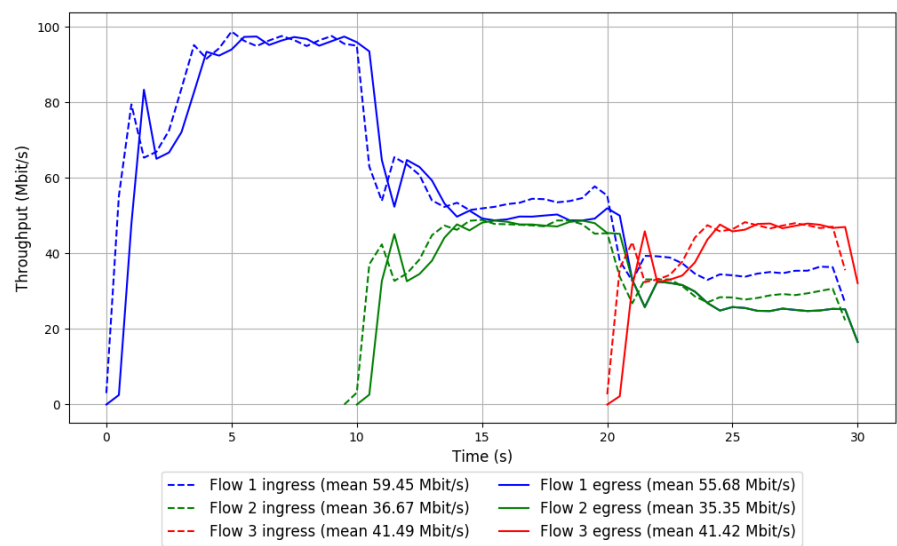
Average throughput: 41.42 Mbit/s

95th percentile per-packet one-way delay: 50.099 ms

Loss rate: 0.82%



Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-07-18 11:57:46

End at: 2018-07-18 11:58:16

Local clock offset: -2.189 ms

Remote clock offset: 2.454 ms

# Below is generated by plot.py at 2018-07-18 13:12:54

# Datalink statistics

-- Total of 3 flows:

Average throughput: 91.22 Mbit/s

95th percentile per-packet one-way delay: 62.821 ms

Loss rate: 2.93%

-- Flow 1:

Average throughput: 57.99 Mbit/s

95th percentile per-packet one-way delay: 61.740 ms

Loss rate: 2.51%

-- Flow 2:

Average throughput: 34.91 Mbit/s

95th percentile per-packet one-way delay: 63.288 ms

Loss rate: 4.13%

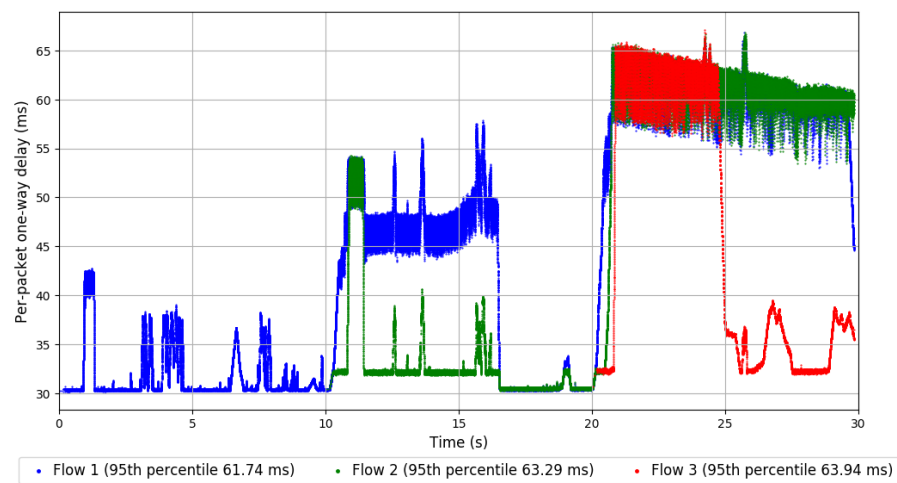
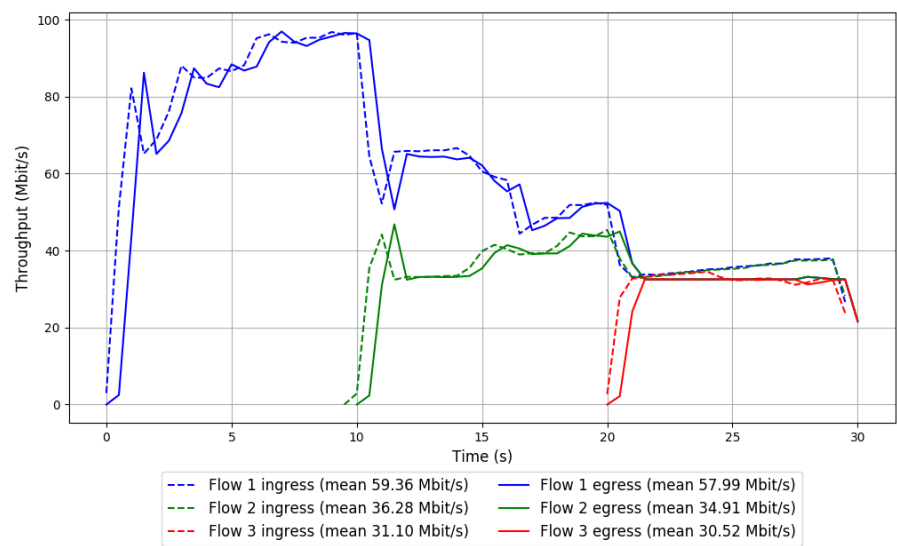
-- Flow 3:

Average throughput: 30.52 Mbit/s

95th percentile per-packet one-way delay: 63.935 ms

Loss rate: 2.51%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-07-18 12:21:14

End at: 2018-07-18 12:21:44

Local clock offset: -3.903 ms

Remote clock offset: 1.625 ms

# Below is generated by plot.py at 2018-07-18 13:13:19

# Datalink statistics

-- Total of 3 flows:

Average throughput: 92.73 Mbit/s

95th percentile per-packet one-way delay: 61.674 ms

Loss rate: 5.27%

-- Flow 1:

Average throughput: 57.98 Mbit/s

95th percentile per-packet one-way delay: 57.592 ms

Loss rate: 6.32%

-- Flow 2:

Average throughput: 37.25 Mbit/s

95th percentile per-packet one-way delay: 62.789 ms

Loss rate: 3.86%

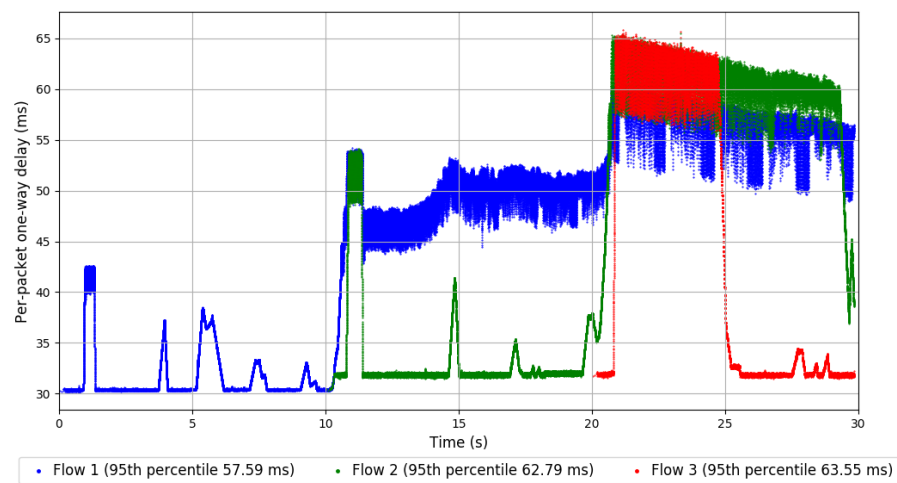
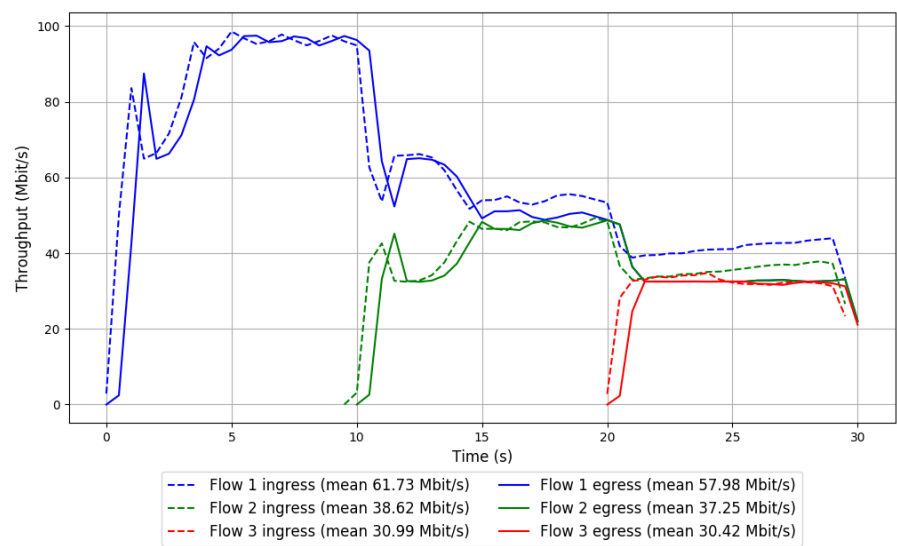
-- Flow 3:

Average throughput: 30.42 Mbit/s

95th percentile per-packet one-way delay: 63.553 ms

Loss rate: 2.48%

Run 9: Report of PCC-Allegro — Data Link



Run 10: Statistics of PCC-Allegro

Start at: 2018-07-18 12:44:39

End at: 2018-07-18 12:45:09

Local clock offset: -4.985 ms

Remote clock offset: 1.171 ms

# Below is generated by plot.py at 2018-07-18 13:13:22

# Datalink statistics

-- Total of 3 flows:

Average throughput: 92.07 Mbit/s

95th percentile per-packet one-way delay: 61.746 ms

Loss rate: 3.42%

-- Flow 1:

Average throughput: 57.26 Mbit/s

95th percentile per-packet one-way delay: 61.568 ms

Loss rate: 2.58%

-- Flow 2:

Average throughput: 37.57 Mbit/s

95th percentile per-packet one-way delay: 61.824 ms

Loss rate: 5.38%

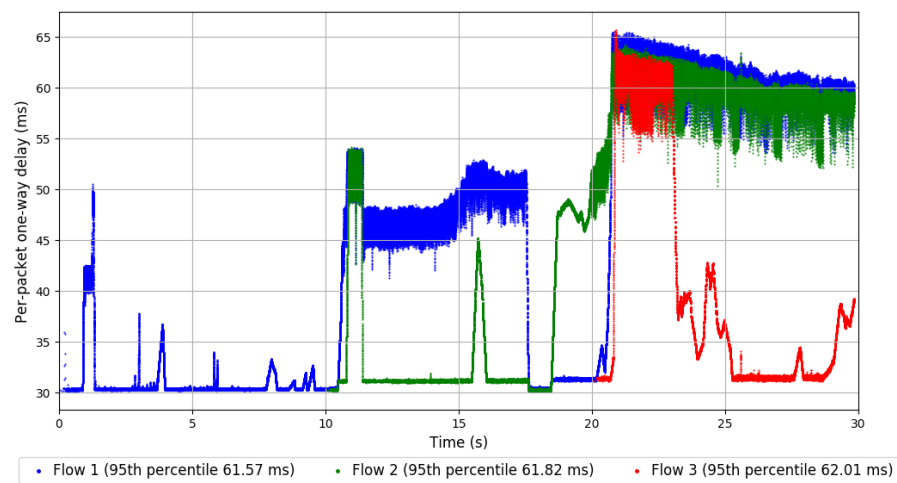
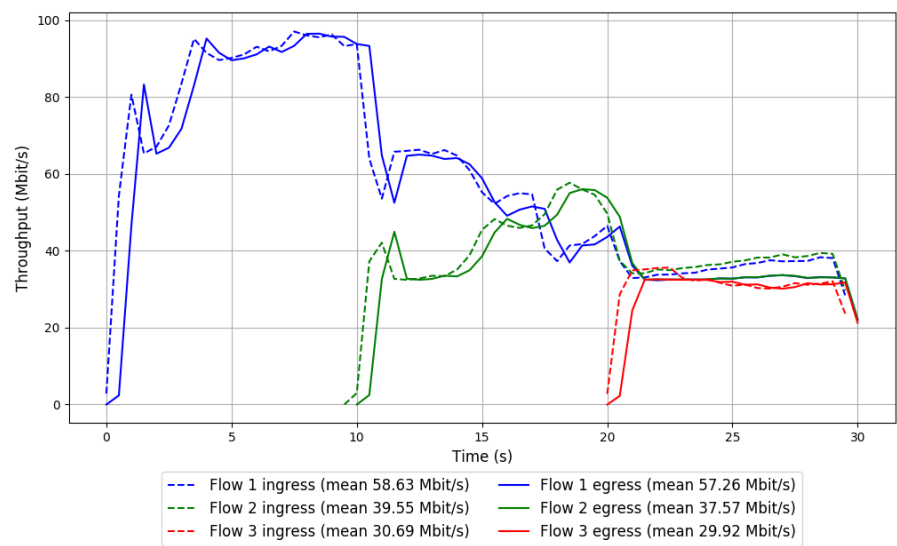
-- Flow 3:

Average throughput: 29.92 Mbit/s

95th percentile per-packet one-way delay: 62.006 ms

Loss rate: 3.17%

Run 10: Report of PCC-Allegro — Data Link



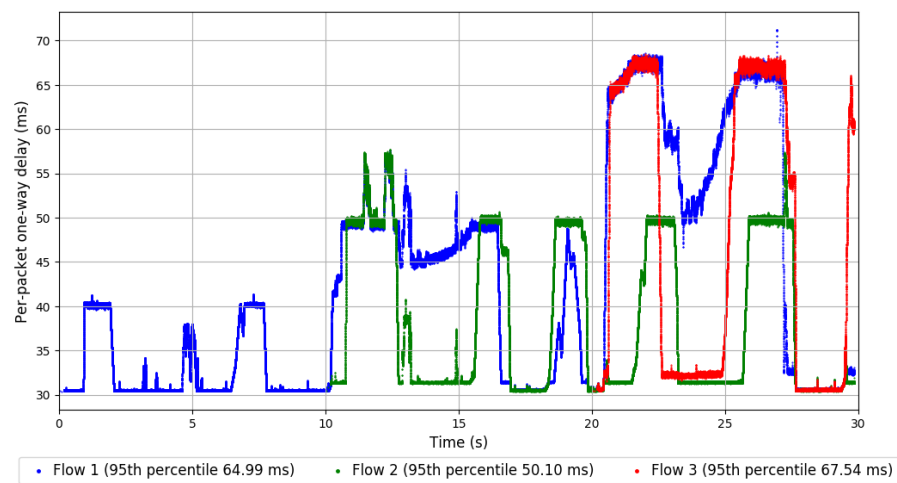
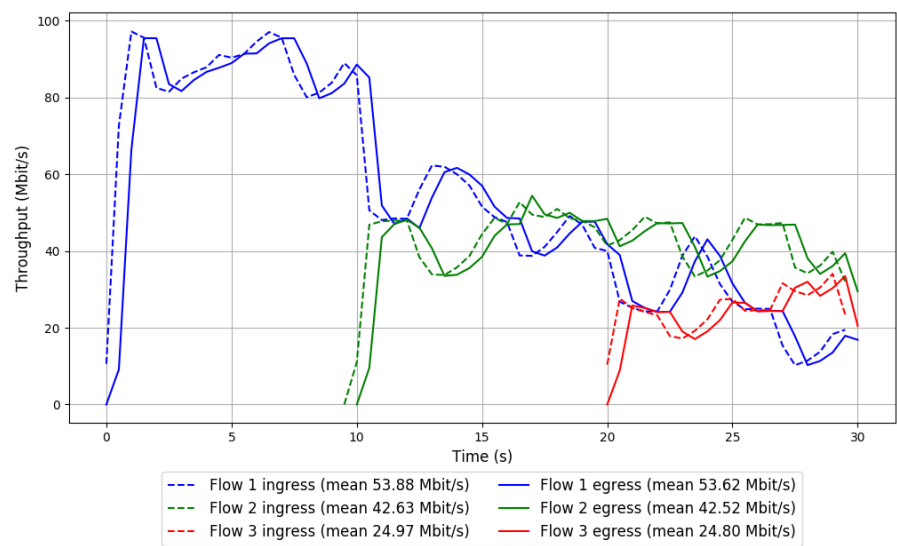
```
Run 1: Statistics of PCC-Expr

Start at: 2018-07-18 09:05:07
End at: 2018-07-18 09:05:37
Local clock offset: 0.339 ms
Remote clock offset: 2.406 ms

# Below is generated by plot.py at 2018-07-18 13:14:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.04 Mbit/s
95th percentile per-packet one-way delay: 66.049 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 53.62 Mbit/s
95th percentile per-packet one-way delay: 64.988 ms
Loss rate: 0.69%
-- Flow 2:
Average throughput: 42.52 Mbit/s
95th percentile per-packet one-way delay: 50.101 ms
Loss rate: 0.60%
-- Flow 3:
Average throughput: 24.80 Mbit/s
95th percentile per-packet one-way delay: 67.540 ms
Loss rate: 1.37%
```



Run 1: Report of PCC-Expr — Data Link



Run 2: Statistics of PCC-Expr

Start at: 2018-07-18 09:28:07

End at: 2018-07-18 09:28:37

Local clock offset: 0.286 ms

Remote clock offset: 3.423 ms

# Below is generated by plot.py at 2018-07-18 13:14:23

# Datalink statistics

-- Total of 3 flows:

Average throughput: 89.89 Mbit/s

95th percentile per-packet one-way delay: 58.005 ms

Loss rate: 1.07%

-- Flow 1:

Average throughput: 51.66 Mbit/s

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

Loss rate: 0.83%

-- Flow 2:

Average throughput: 41.83 Mbit/s

95th percentile per-packet one-way delay: 58.395 ms

Loss rate: 1.36%

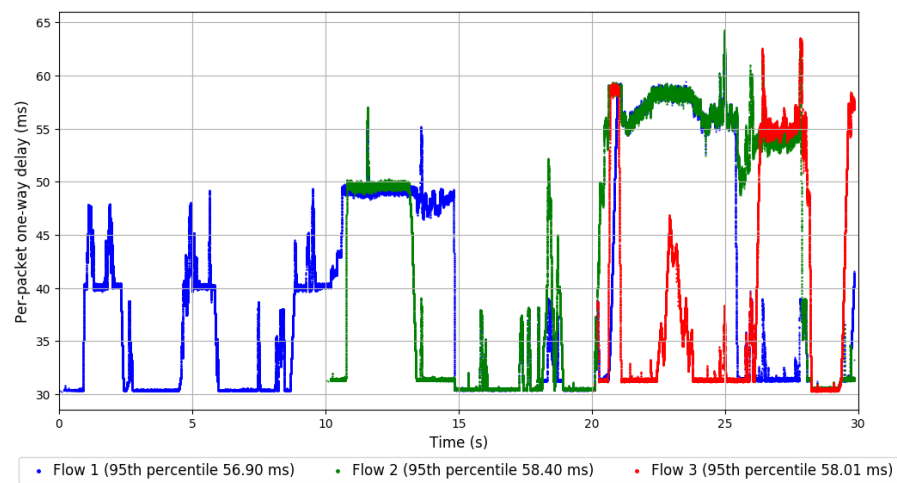
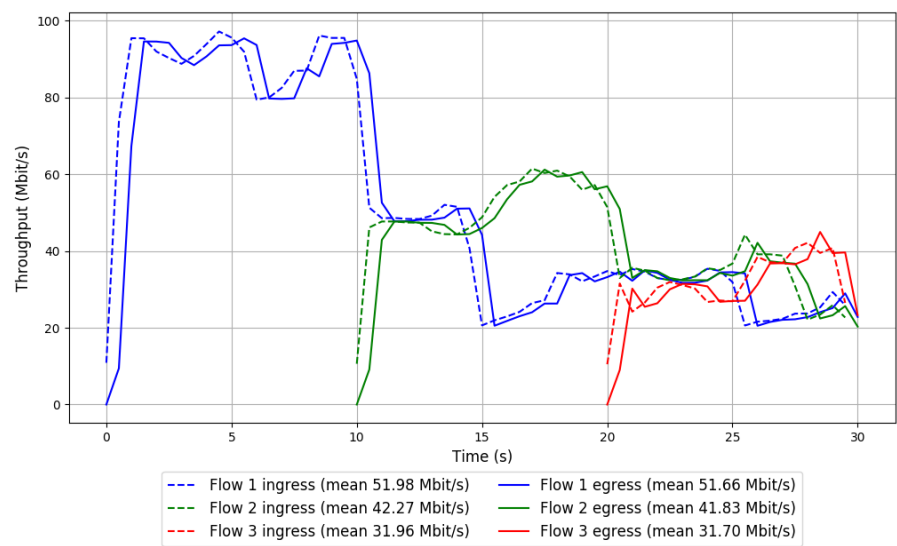
-- Flow 3:

Average throughput: 31.70 Mbit/s

95th percentile per-packet one-way delay: 58.010 ms

Loss rate: 1.53%

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2018-07-18 09:51:25

End at: 2018-07-18 09:51:55

Local clock offset: 0.25 ms

Remote clock offset: 4.071 ms

# Below is generated by plot.py at 2018-07-18 13:14:29

# Datalink statistics

-- Total of 3 flows:

Average throughput: 91.41 Mbit/s

95th percentile per-packet one-way delay: 64.020 ms

Loss rate: 1.14%

-- Flow 1:

Average throughput: 58.77 Mbit/s

95th percentile per-packet one-way delay: 49.718 ms

Loss rate: 1.05%

-- Flow 2:

Average throughput: 37.83 Mbit/s

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

Loss rate: 1.30%

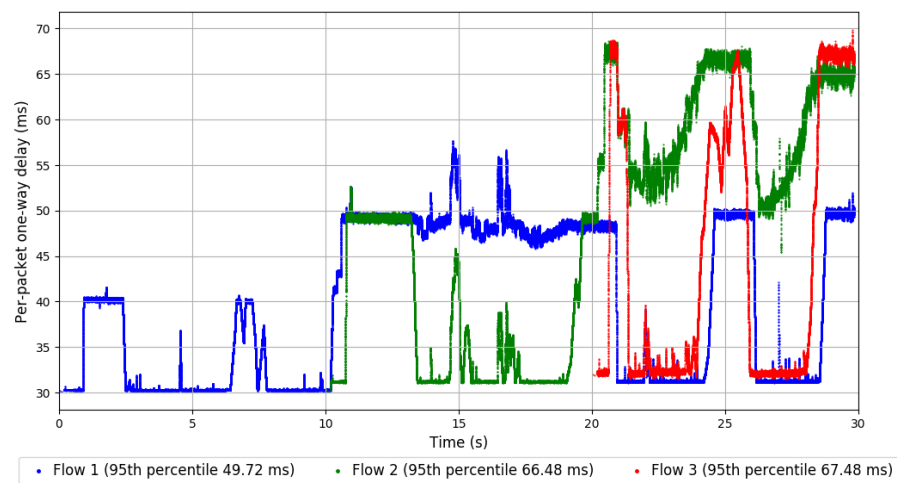
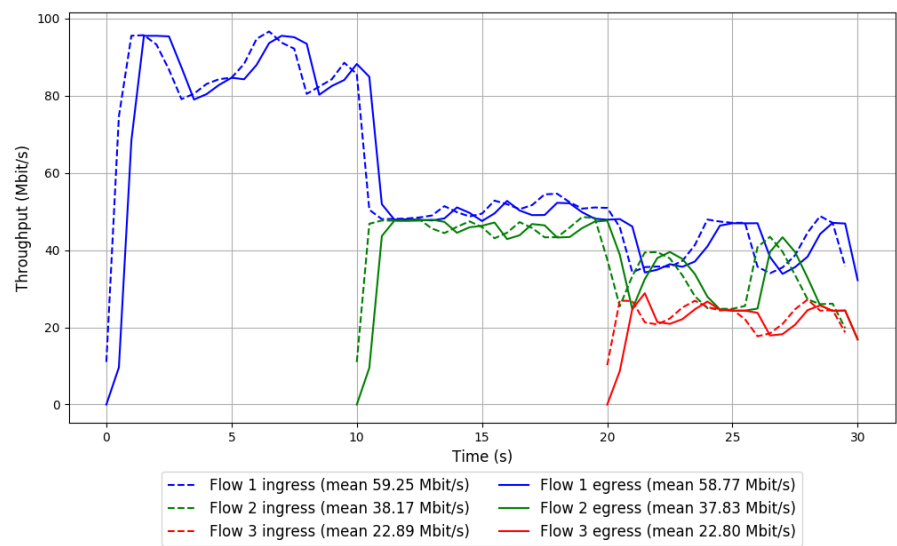
-- Flow 3:

Average throughput: 22.80 Mbit/s

95th percentile per-packet one-way delay: 67.476 ms

Loss rate: 1.25%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2018-07-18 10:15:02

End at: 2018-07-18 10:15:32

Local clock offset: 0.333 ms

Remote clock offset: 3.646 ms

# Below is generated by plot.py at 2018-07-18 13:14:35

# Datalink statistics

-- Total of 3 flows:

Average throughput: 90.72 Mbit/s

95th percentile per-packet one-way delay: 58.075 ms

Loss rate: 0.92%

-- Flow 1:

Average throughput: 56.26 Mbit/s

95th percentile per-packet one-way delay: 57.657 ms

Loss rate: 0.75%

-- Flow 2:

Average throughput: 37.14 Mbit/s

95th percentile per-packet one-way delay: 58.429 ms

Loss rate: 1.28%

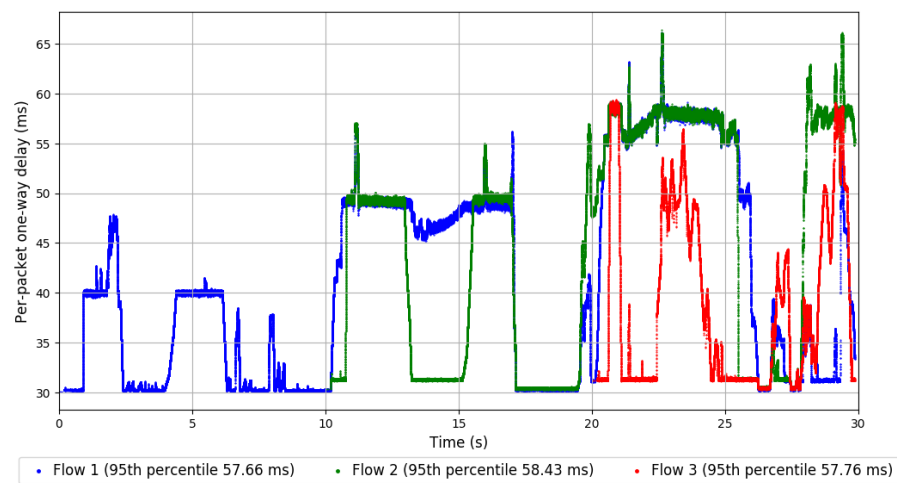
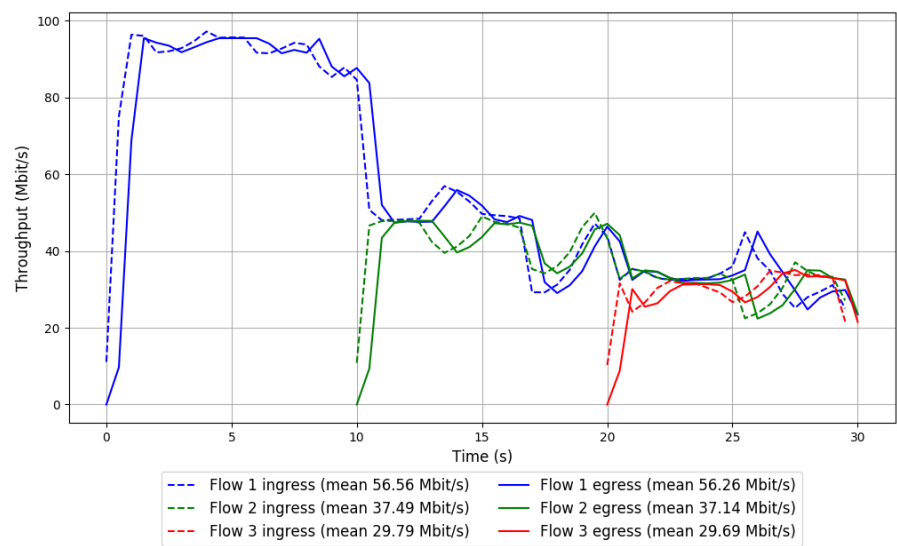
-- Flow 3:

Average throughput: 29.69 Mbit/s

95th percentile per-packet one-way delay: 57.756 ms

Loss rate: 0.99%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2018-07-18 10:38:42

End at: 2018-07-18 10:39:12

Local clock offset: 0.057 ms

Remote clock offset: 3.109 ms

# Below is generated by plot.py at 2018-07-18 13:14:40

# Datalink statistics

-- Total of 3 flows:

Average throughput: 87.17 Mbit/s

95th percentile per-packet one-way delay: 58.534 ms

Loss rate: 0.99%

-- Flow 1:

Average throughput: 53.08 Mbit/s

95th percentile per-packet one-way delay: 57.950 ms

Loss rate: 1.06%

-- Flow 2:

Average throughput: 37.18 Mbit/s

95th percentile per-packet one-way delay: 58.301 ms

Loss rate: 0.73%

-- Flow 3:

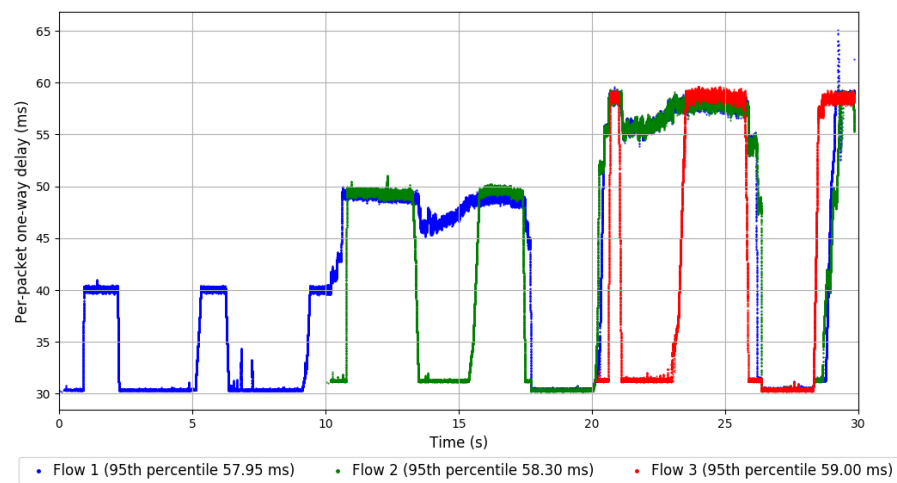
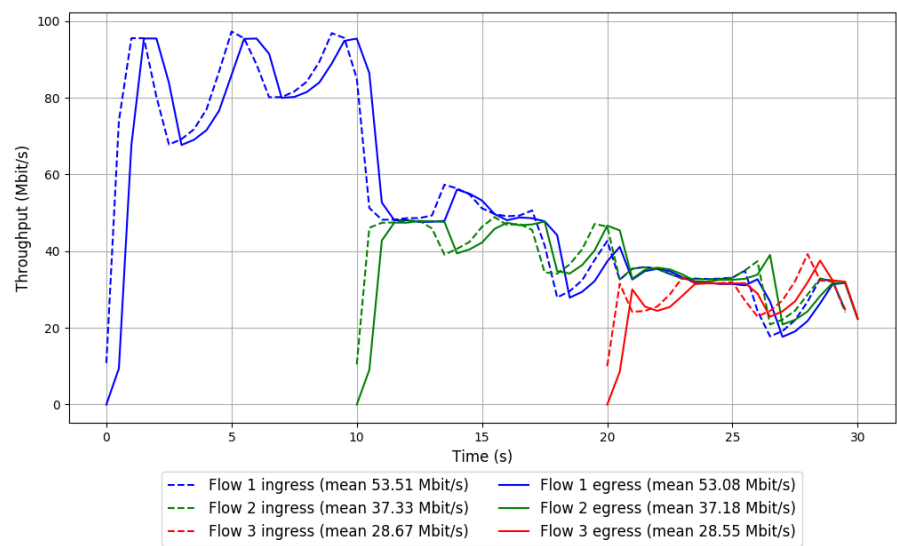
Average throughput: 28.55 Mbit/s

95th percentile per-packet one-way delay: 58.997 ms

Loss rate: 1.25%



Run 5: Report of PCC-Expr — Data Link



Run 6: Statistics of PCC-Expr

Start at: 2018-07-18 11:02:03

End at: 2018-07-18 11:02:33

Local clock offset: 0.114 ms

Remote clock offset: 3.158 ms

# Below is generated by plot.py at 2018-07-18 13:14:47

# Datalink statistics

-- Total of 3 flows:

Average throughput: 88.42 Mbit/s

95th percentile per-packet one-way delay: 58.241 ms

Loss rate: 1.06%

-- Flow 1:

Average throughput: 54.67 Mbit/s

95th percentile per-packet one-way delay: 57.417 ms

Loss rate: 1.10%

-- Flow 2:

Average throughput: 37.31 Mbit/s

95th percentile per-packet one-way delay: 58.366 ms

Loss rate: 0.92%

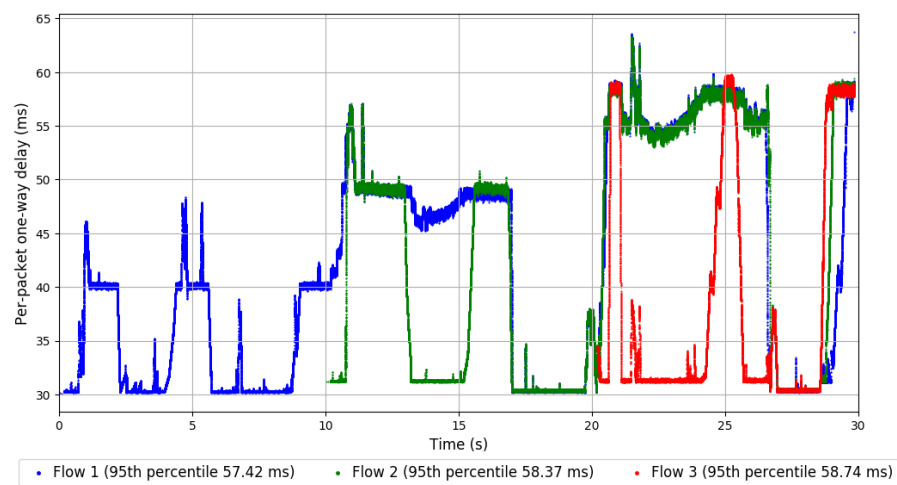
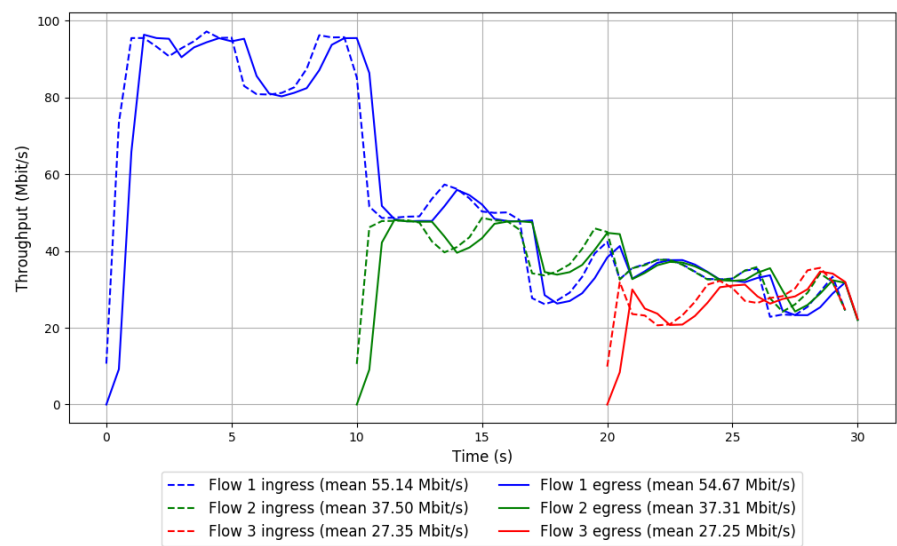
-- Flow 3:

Average throughput: 27.25 Mbit/s

95th percentile per-packet one-way delay: 58.743 ms

Loss rate: 1.21%

Run 6: Report of PCC-Expr — Data Link



Run 7: Statistics of PCC-Expr

Start at: 2018-07-18 11:25:44

End at: 2018-07-18 11:26:14

Local clock offset: 0.157 ms

Remote clock offset: 3.456 ms

# Below is generated by plot.py at 2018-07-18 13:15:16

# Datalink statistics

-- Total of 3 flows:

Average throughput: 89.82 Mbit/s

95th percentile per-packet one-way delay: 58.194 ms

Loss rate: 0.81%

-- Flow 1:

Average throughput: 54.07 Mbit/s

95th percentile per-packet one-way delay: 55.438 ms

Loss rate: 0.32%

-- Flow 2:

Average throughput: 39.72 Mbit/s

95th percentile per-packet one-way delay: 57.775 ms

Loss rate: 1.73%

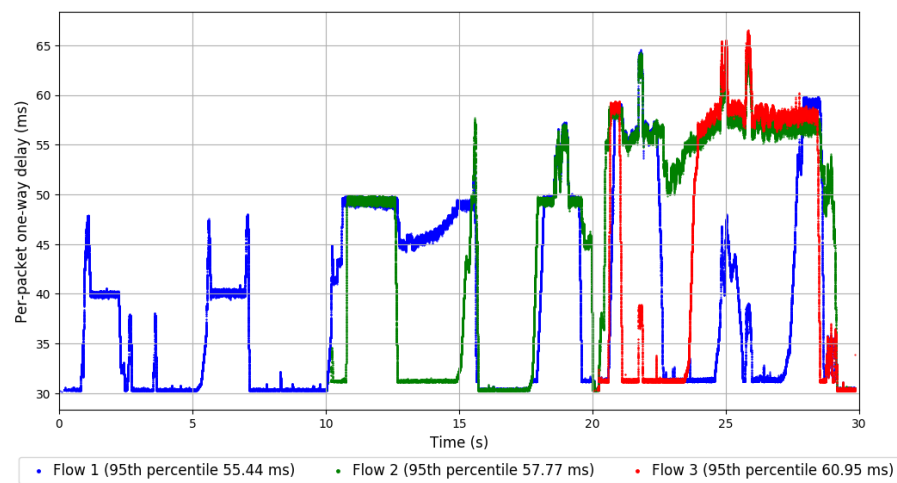
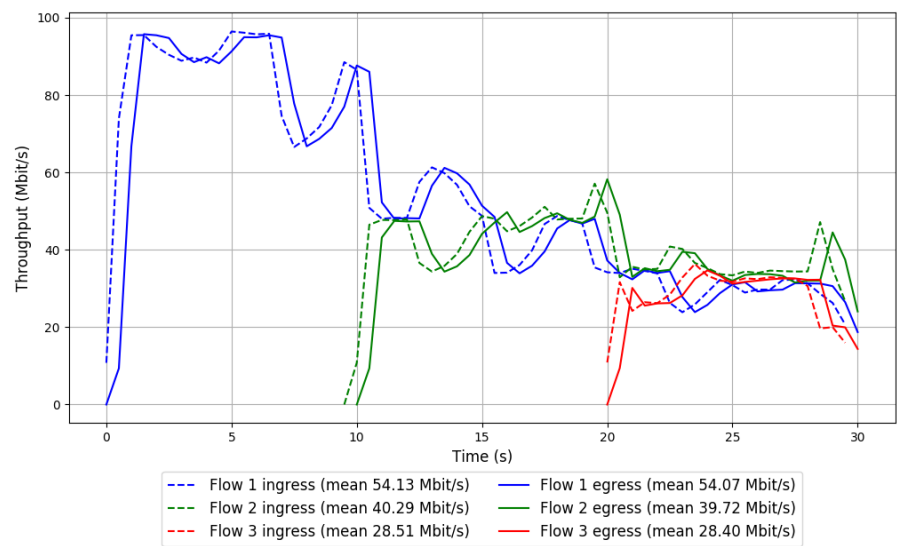
-- Flow 3:

Average throughput: 28.40 Mbit/s

95th percentile per-packet one-way delay: 60.945 ms

Loss rate: 1.00%

Run 7: Report of PCC-Expr — Data Link



Run 8: Statistics of PCC-Expr

Start at: 2018-07-18 11:49:15

End at: 2018-07-18 11:49:46

Local clock offset: -0.575 ms

Remote clock offset: 3.074 ms

# Below is generated by plot.py at 2018-07-18 13:15:23

# Datalink statistics

-- Total of 3 flows:

Average throughput: 89.73 Mbit/s

95th percentile per-packet one-way delay: 62.832 ms

Loss rate: 0.59%

-- Flow 1:

Average throughput: 53.21 Mbit/s

95th percentile per-packet one-way delay: 58.595 ms

Loss rate: 0.32%

-- Flow 2:

Average throughput: 43.26 Mbit/s

95th percentile per-packet one-way delay: 49.942 ms

Loss rate: 0.72%

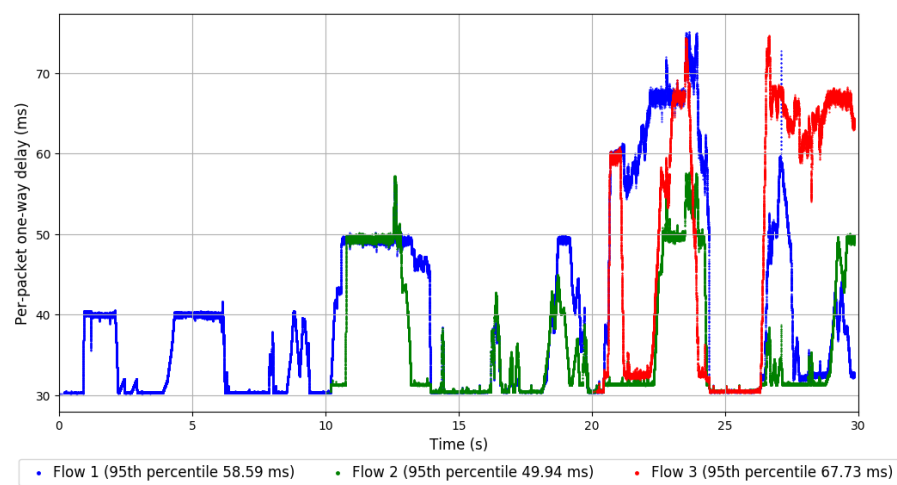
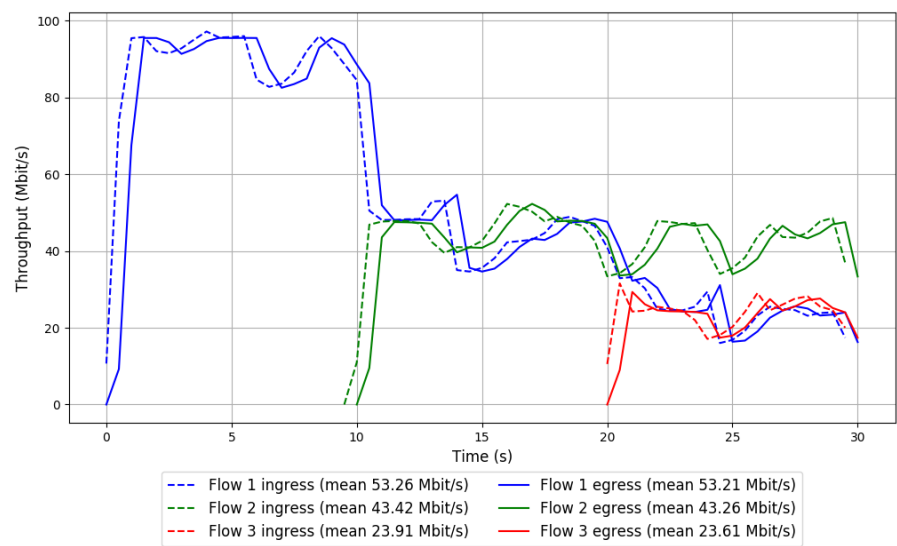
-- Flow 3:

Average throughput: 23.61 Mbit/s

95th percentile per-packet one-way delay: 67.733 ms

Loss rate: 1.97%

Run 8: Report of PCC-Expr — Data Link



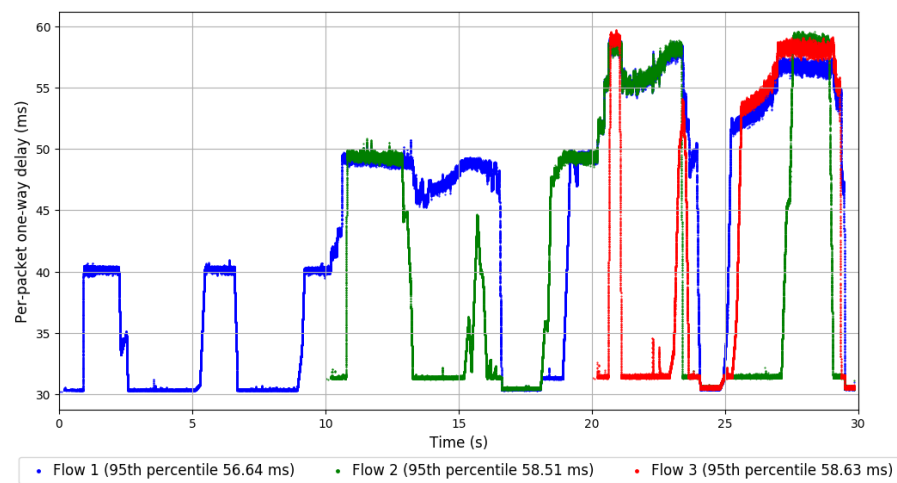
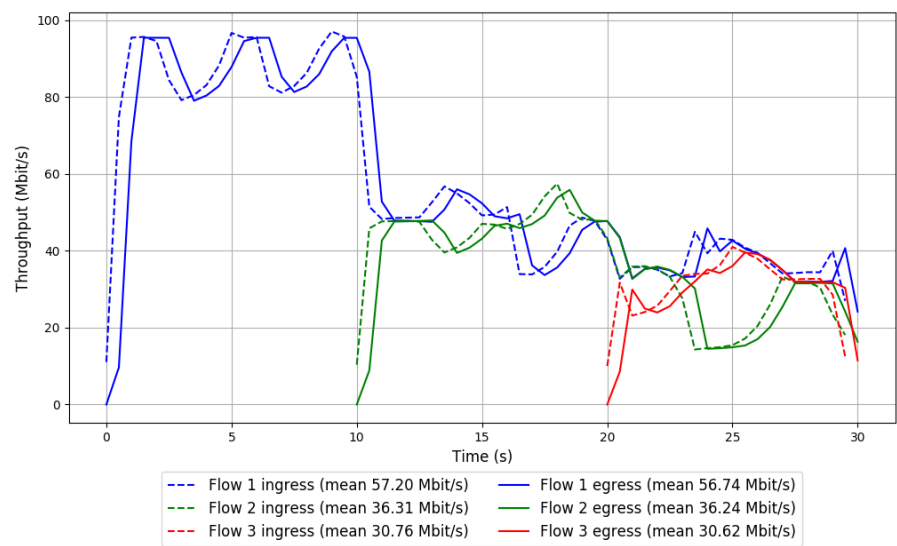
```
Run 9: Statistics of PCC-Expr

Start at: 2018-07-18 12:12:55
End at: 2018-07-18 12:13:25
Local clock offset: -3.441 ms
Remote clock offset: 1.507 ms

# Below is generated by plot.py at 2018-07-18 13:16:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.89 Mbit/s
95th percentile per-packet one-way delay: 58.119 ms
Loss rate: 0.90%
-- Flow 1:
Average throughput: 56.74 Mbit/s
95th percentile per-packet one-way delay: 56.644 ms
Loss rate: 1.02%
-- Flow 2:
Average throughput: 36.24 Mbit/s
95th percentile per-packet one-way delay: 58.510 ms
Loss rate: 0.53%
-- Flow 3:
Average throughput: 30.62 Mbit/s
95th percentile per-packet one-way delay: 58.629 ms
Loss rate: 1.13%
```



Run 9: Report of PCC-Expr — Data Link



Run 10: Statistics of PCC-Expr

Start at: 2018-07-18 12:36:18

End at: 2018-07-18 12:36:48

Local clock offset: -4.567 ms

Remote clock offset: 1.184 ms

# Below is generated by plot.py at 2018-07-18 13:16:31

# Datalink statistics

-- Total of 3 flows:

Average throughput: 90.64 Mbit/s

95th percentile per-packet one-way delay: 58.209 ms

Loss rate: 0.90%

-- Flow 1:

Average throughput: 56.28 Mbit/s

95th percentile per-packet one-way delay: 57.595 ms

Loss rate: 0.94%

-- Flow 2:

Average throughput: 37.22 Mbit/s

95th percentile per-packet one-way delay: 58.354 ms

Loss rate: 0.68%

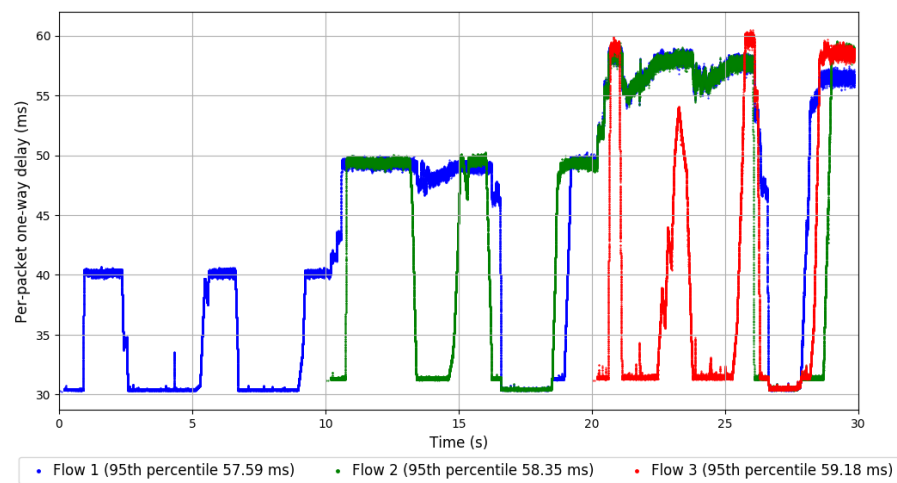
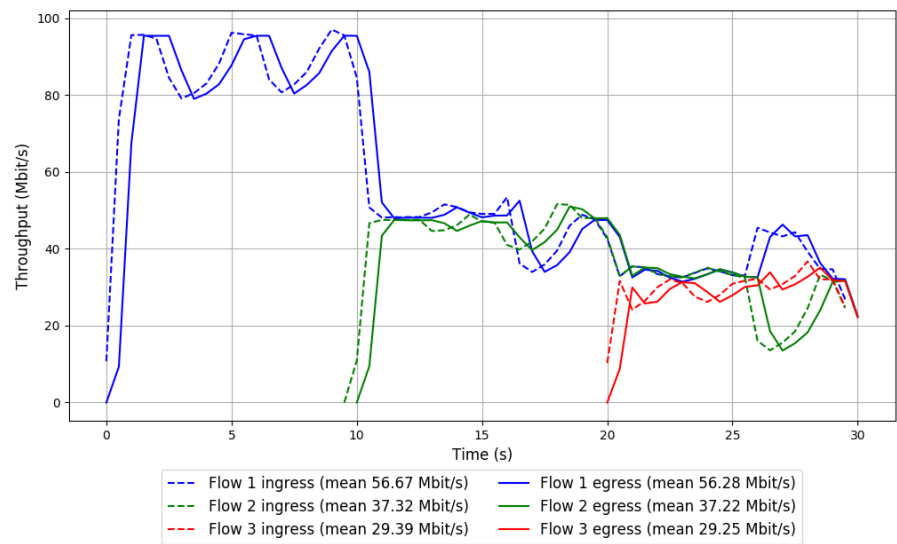
-- Flow 3:

Average throughput: 29.25 Mbit/s

95th percentile per-packet one-way delay: 59.176 ms

Loss rate: 1.28%

Run 10: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2018-07-18 09:18:39

End at: 2018-07-18 09:19:09

Local clock offset: 0.356 ms

Remote clock offset: 3.25 ms

# Below is generated by plot.py at 2018-07-18 13:16:31

# Datalink statistics

-- Total of 3 flows:

Average throughput: 70.46 Mbit/s

95th percentile per-packet one-way delay: 44.251 ms

Loss rate: 0.49%

-- Flow 1:

Average throughput: 40.59 Mbit/s

95th percentile per-packet one-way delay: 42.041 ms

Loss rate: 0.31%

-- Flow 2:

Average throughput: 32.90 Mbit/s

95th percentile per-packet one-way delay: 52.077 ms

Loss rate: 0.67%

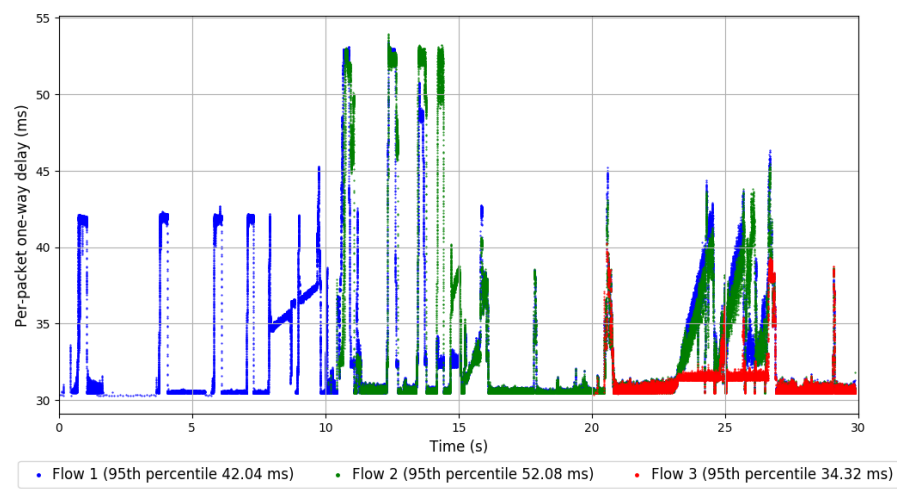
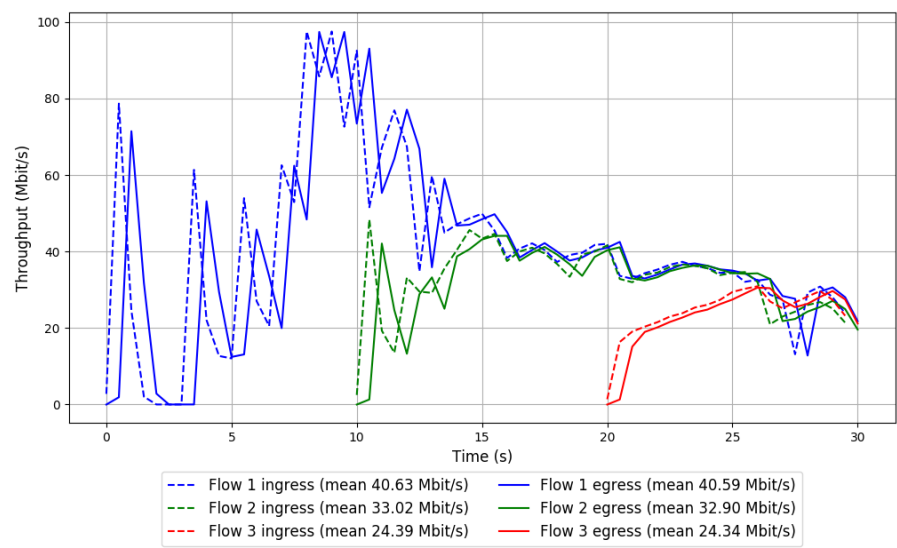
-- Flow 3:

Average throughput: 24.34 Mbit/s

95th percentile per-packet one-way delay: 34.322 ms

Loss rate: 0.88%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-07-18 09:41:38

End at: 2018-07-18 09:42:08

Local clock offset: 0.276 ms

Remote clock offset: 3.644 ms

# Below is generated by plot.py at 2018-07-18 13:16:31

# Datalink statistics

-- Total of 3 flows:

Average throughput: 74.29 Mbit/s

95th percentile per-packet one-way delay: 49.798 ms

Loss rate: 0.40%

-- Flow 1:

Average throughput: 37.98 Mbit/s

95th percentile per-packet one-way delay: 41.947 ms

Loss rate: 0.22%

-- Flow 2:

Average throughput: 42.72 Mbit/s

95th percentile per-packet one-way delay: 51.265 ms

Loss rate: 0.46%

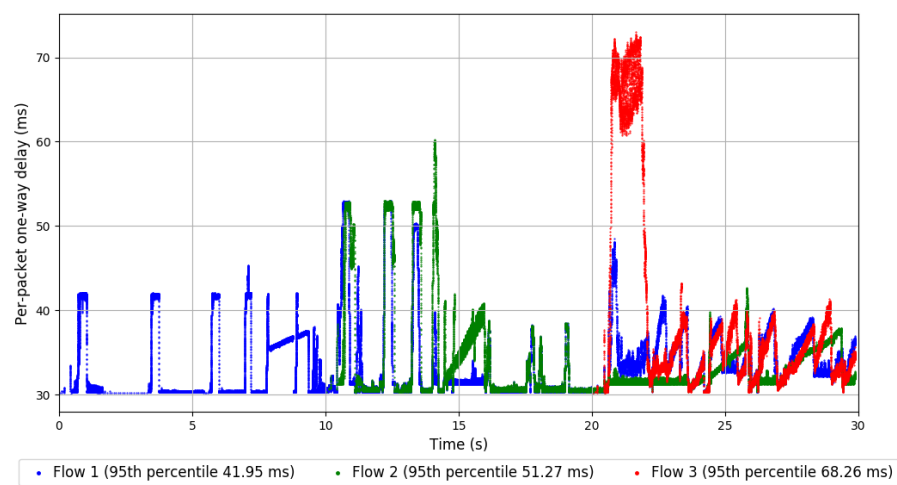
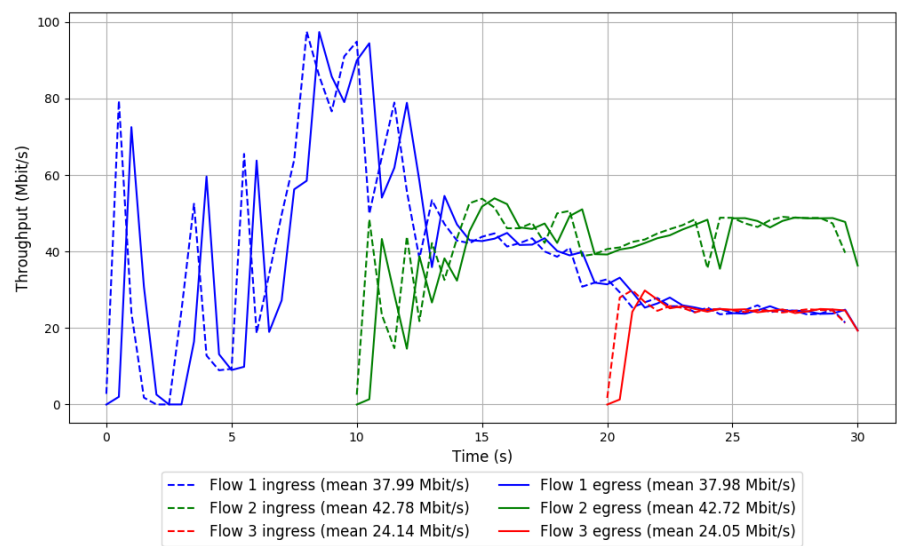
-- Flow 3:

Average throughput: 24.05 Mbit/s

95th percentile per-packet one-way delay: 68.262 ms

Loss rate: 1.02%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-07-18 10:05:11

End at: 2018-07-18 10:05:41

Local clock offset: 0.215 ms

Remote clock offset: 3.681 ms

# Below is generated by plot.py at 2018-07-18 13:16:31

# Datalink statistics

-- Total of 3 flows:

Average throughput: 75.08 Mbit/s

95th percentile per-packet one-way delay: 51.172 ms

Loss rate: 0.48%

-- Flow 1:

Average throughput: 40.77 Mbit/s

95th percentile per-packet one-way delay: 44.888 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 36.65 Mbit/s

95th percentile per-packet one-way delay: 52.146 ms

Loss rate: 0.33%

-- Flow 3:

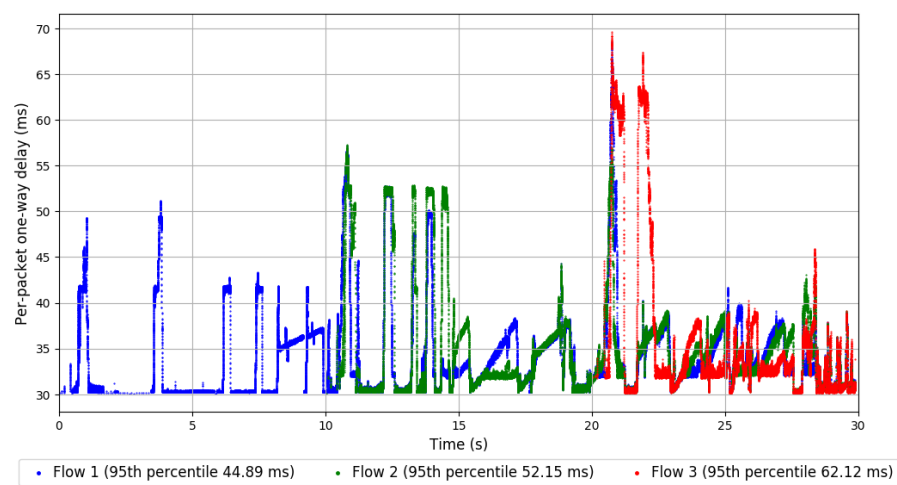
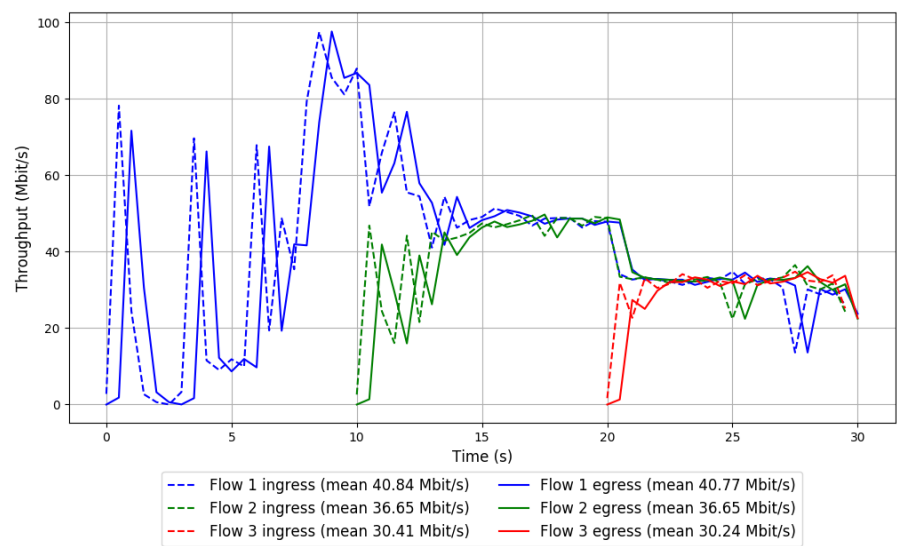
Average throughput: 30.24 Mbit/s

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

Loss rate: 1.18%



Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-07-18 10:28:59

End at: 2018-07-18 10:29:29

Local clock offset: 0.109 ms

Remote clock offset: 3.628 ms

# Below is generated by plot.py at 2018-07-18 13:16:31

# Datalink statistics

-- Total of 3 flows:

Average throughput: 86.14 Mbit/s

95th percentile per-packet one-way delay: 48.408 ms

Loss rate: 0.33%

-- Flow 1:

Average throughput: 52.43 Mbit/s

95th percentile per-packet one-way delay: 41.776 ms

Loss rate: 0.17%

-- Flow 2:

Average throughput: 35.72 Mbit/s

95th percentile per-packet one-way delay: 52.349 ms

Loss rate: 0.41%

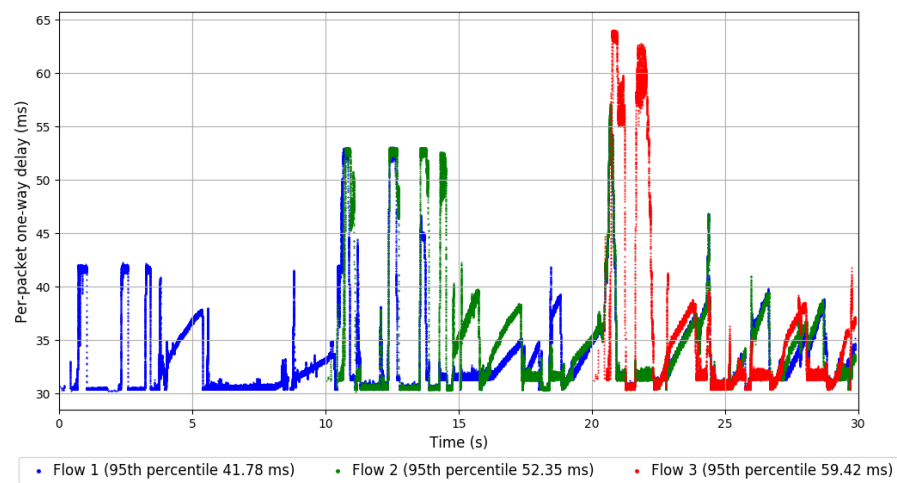
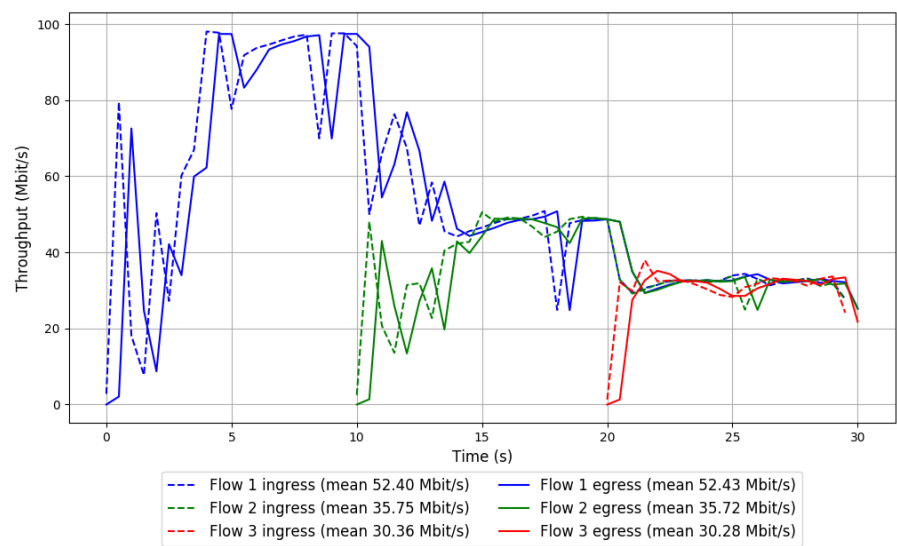
-- Flow 3:

Average throughput: 30.28 Mbit/s

95th percentile per-packet one-way delay: 59.424 ms

Loss rate: 0.94%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-07-18 10:52:27

End at: 2018-07-18 10:52:57

Local clock offset: 0.176 ms

Remote clock offset: 2.932 ms

# Below is generated by plot.py at 2018-07-18 13:16:31

# Datalink statistics

-- Total of 3 flows:

Average throughput: 72.40 Mbit/s

95th percentile per-packet one-way delay: 51.951 ms

Loss rate: 0.50%

-- Flow 1:

Average throughput: 38.72 Mbit/s

95th percentile per-packet one-way delay: 43.031 ms

Loss rate: 0.29%

-- Flow 2:

Average throughput: 33.89 Mbit/s

95th percentile per-packet one-way delay: 52.595 ms

Loss rate: 0.64%

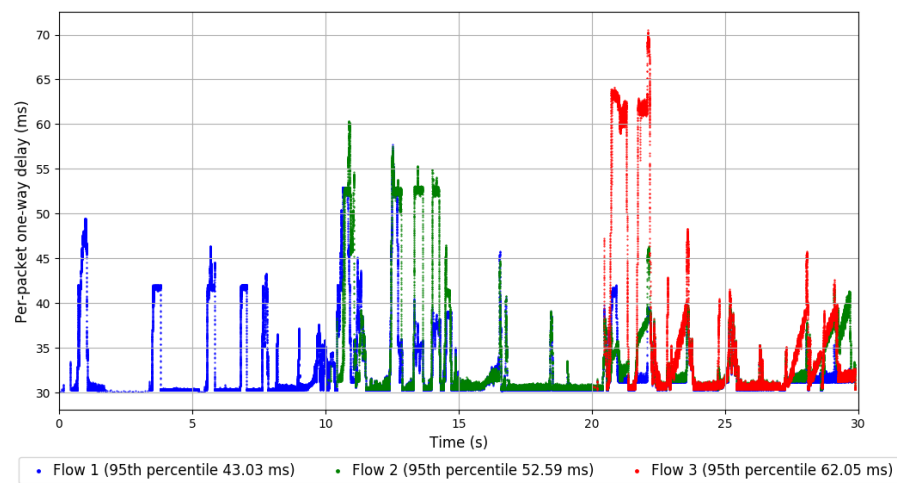
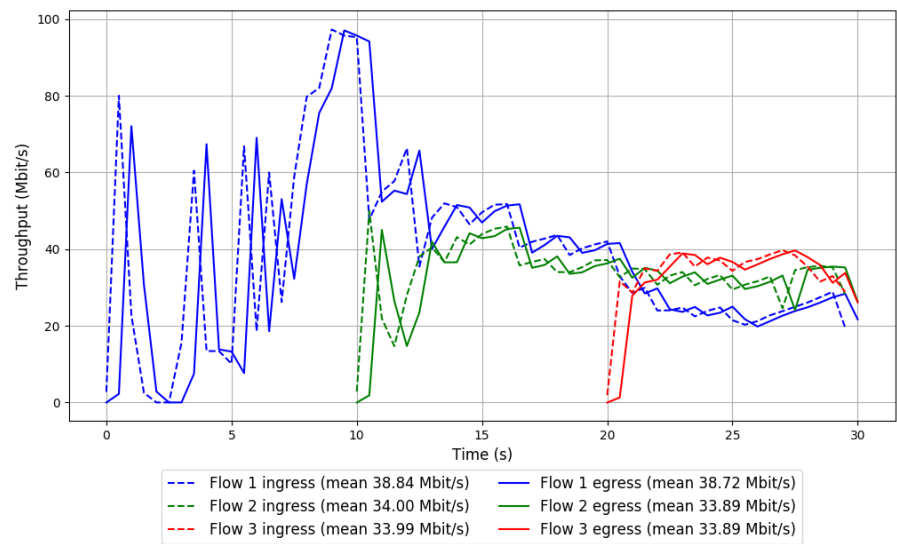
-- Flow 3:

Average throughput: 33.89 Mbit/s

95th percentile per-packet one-way delay: 62.049 ms

Loss rate: 0.94%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-07-18 11:16:02

End at: 2018-07-18 11:16:32

Local clock offset: 0.228 ms

Remote clock offset: 3.272 ms

# Below is generated by plot.py at 2018-07-18 13:16:31

# Datalink statistics

-- Total of 3 flows:

Average throughput: 73.45 Mbit/s

95th percentile per-packet one-way delay: 52.171 ms

Loss rate: 0.36%

-- Flow 1:

Average throughput: 39.85 Mbit/s

95th percentile per-packet one-way delay: 41.802 ms

Loss rate: 0.22%

-- Flow 2:

Average throughput: 35.31 Mbit/s

95th percentile per-packet one-way delay: 52.544 ms

Loss rate: 0.37%

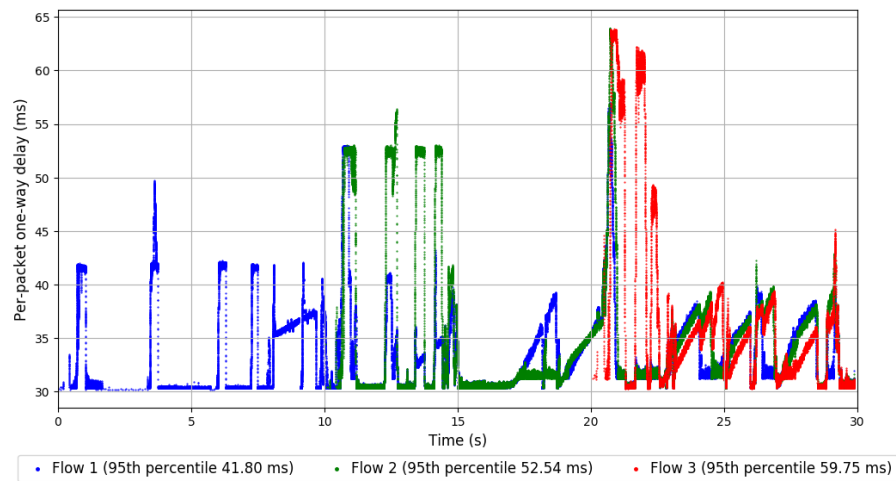
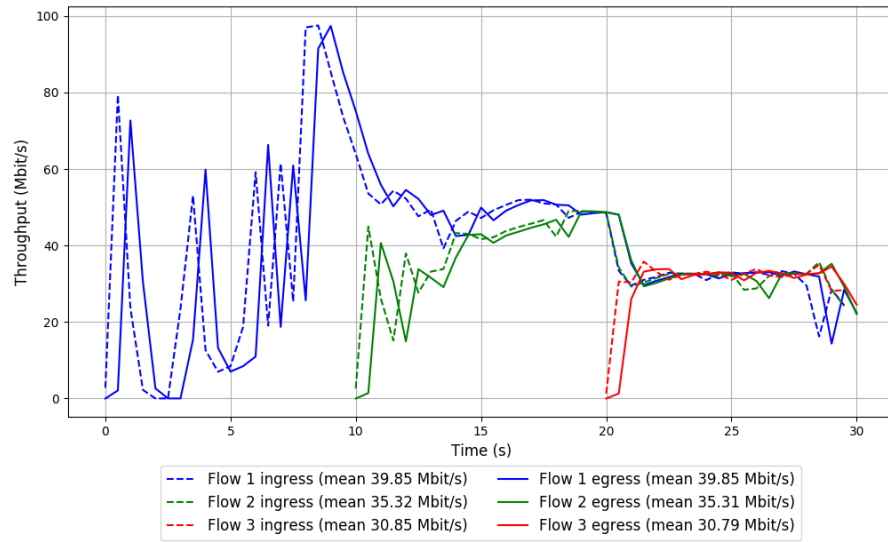
-- Flow 3:

Average throughput: 30.79 Mbit/s

95th percentile per-packet one-way delay: 59.749 ms

Loss rate: 0.86%

## Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-07-18 11:39:35

End at: 2018-07-18 11:40:05

Local clock offset: 0.147 ms

Remote clock offset: 3.461 ms

# Below is generated by plot.py at 2018-07-18 13:16:31

# Datalink statistics

-- Total of 3 flows:

Average throughput: 64.74 Mbit/s

95th percentile per-packet one-way delay: 48.647 ms

Loss rate: 0.61%

-- Flow 1:

Average throughput: 33.23 Mbit/s

95th percentile per-packet one-way delay: 41.984 ms

Loss rate: 0.36%

-- Flow 2:

Average throughput: 35.67 Mbit/s

95th percentile per-packet one-way delay: 51.401 ms

Loss rate: 0.49%

-- Flow 3:

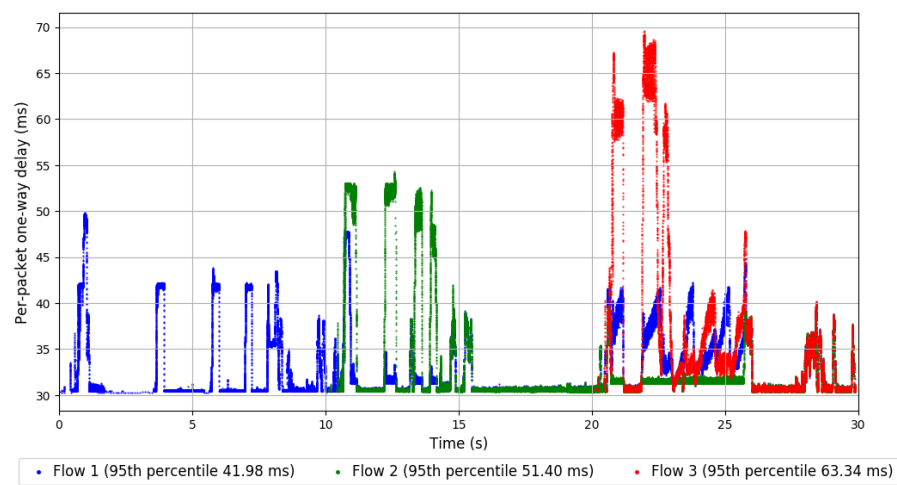
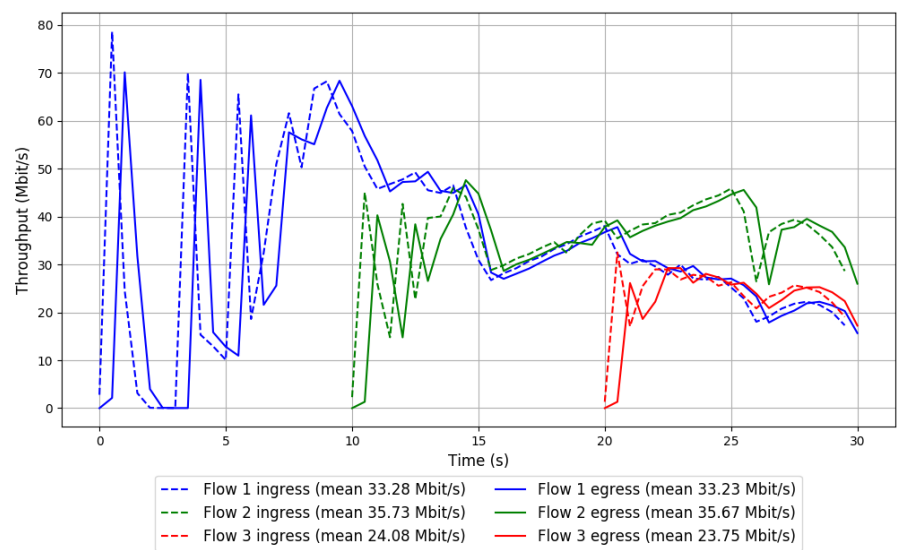
Average throughput: 23.75 Mbit/s

95th percentile per-packet one-way delay: 63.344 ms

Loss rate: 2.03%



Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-07-18 12:03:14

End at: 2018-07-18 12:03:44

Local clock offset: -2.778 ms

Remote clock offset: 2.112 ms

# Below is generated by plot.py at 2018-07-18 13:16:37

# Datalink statistics

-- Total of 3 flows:

Average throughput: 71.11 Mbit/s

95th percentile per-packet one-way delay: 52.440 ms

Loss rate: 0.43%

-- Flow 1:

Average throughput: 37.51 Mbit/s

95th percentile per-packet one-way delay: 41.885 ms

Loss rate: 0.24%

-- Flow 2:

Average throughput: 31.73 Mbit/s

95th percentile per-packet one-way delay: 52.553 ms

Loss rate: 0.40%

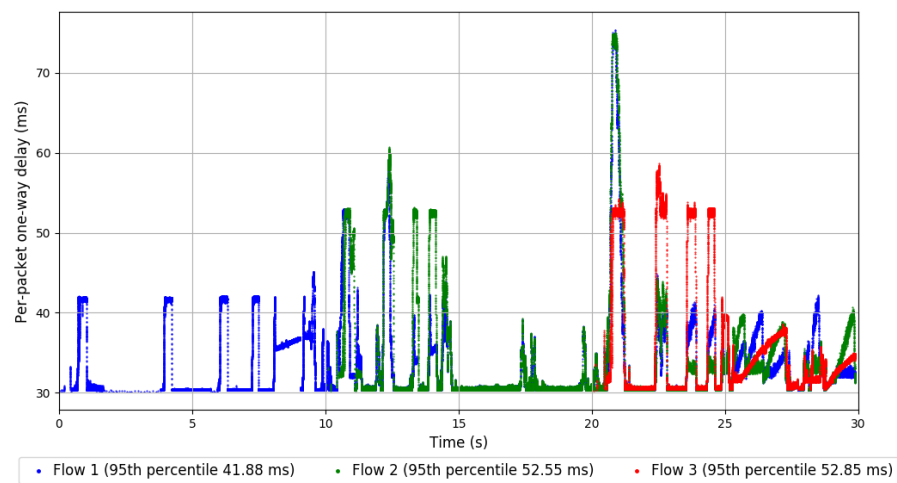
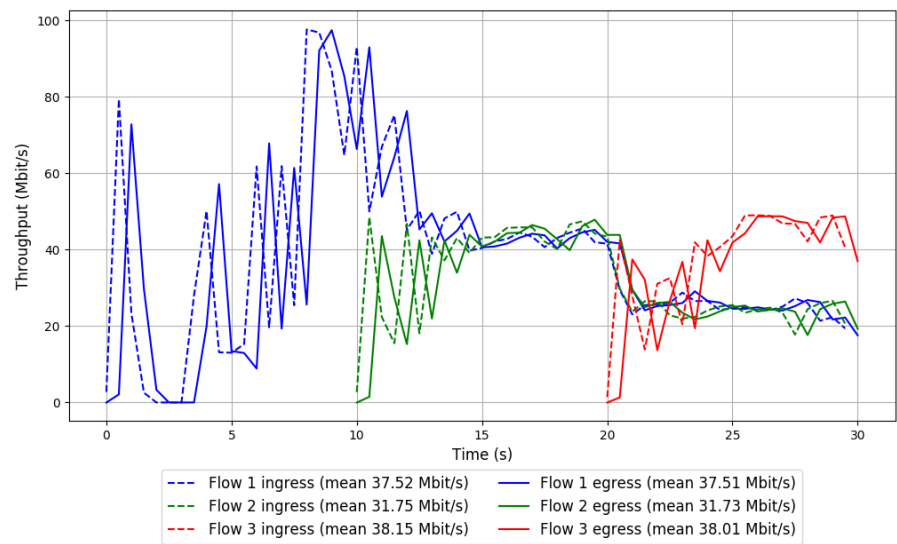
-- Flow 3:

Average throughput: 38.01 Mbit/s

95th percentile per-packet one-way delay: 52.853 ms

Loss rate: 1.03%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-07-18 12:26:42

End at: 2018-07-18 12:27:12

Local clock offset: -4.153 ms

Remote clock offset: 1.486 ms

# Below is generated by plot.py at 2018-07-18 13:16:49

# Datalink statistics

-- Total of 3 flows:

Average throughput: 77.51 Mbit/s

95th percentile per-packet one-way delay: 51.579 ms

Loss rate: 0.37%

-- Flow 1:

Average throughput: 40.97 Mbit/s

95th percentile per-packet one-way delay: 41.948 ms

Loss rate: 0.18%

-- Flow 2:

Average throughput: 43.38 Mbit/s

95th percentile per-packet one-way delay: 50.964 ms

Loss rate: 0.43%

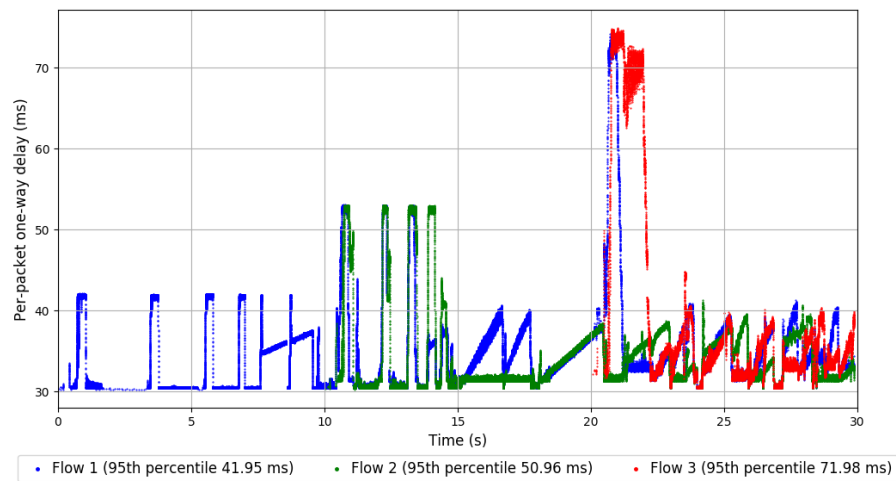
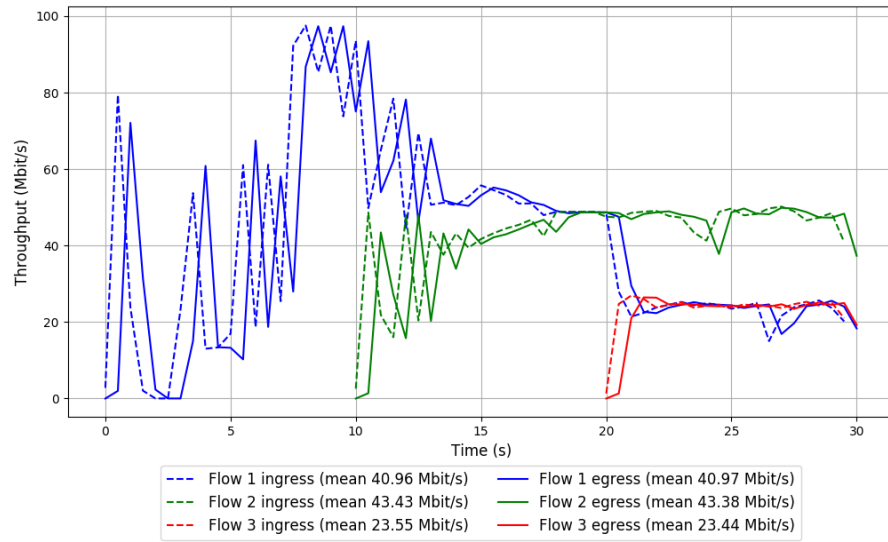
-- Flow 3:

Average throughput: 23.44 Mbit/s

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

Loss rate: 1.11%

# Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-07-18 12:50:01

End at: 2018-07-18 12:50:31

Local clock offset: -3.356 ms

Remote clock offset: 1.761 ms

# Below is generated by plot.py at 2018-07-18 13:17:14

# Datalink statistics

-- Total of 3 flows:

Average throughput: 85.97 Mbit/s

95th percentile per-packet one-way delay: 45.595 ms

Loss rate: 0.34%

-- Flow 1:

Average throughput: 50.54 Mbit/s

95th percentile per-packet one-way delay: 41.574 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 40.21 Mbit/s

95th percentile per-packet one-way delay: 51.840 ms

Loss rate: 0.54%

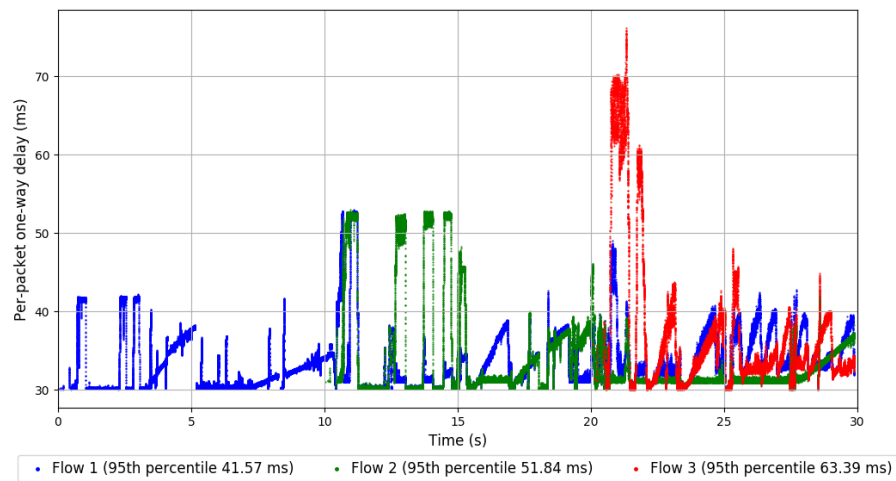
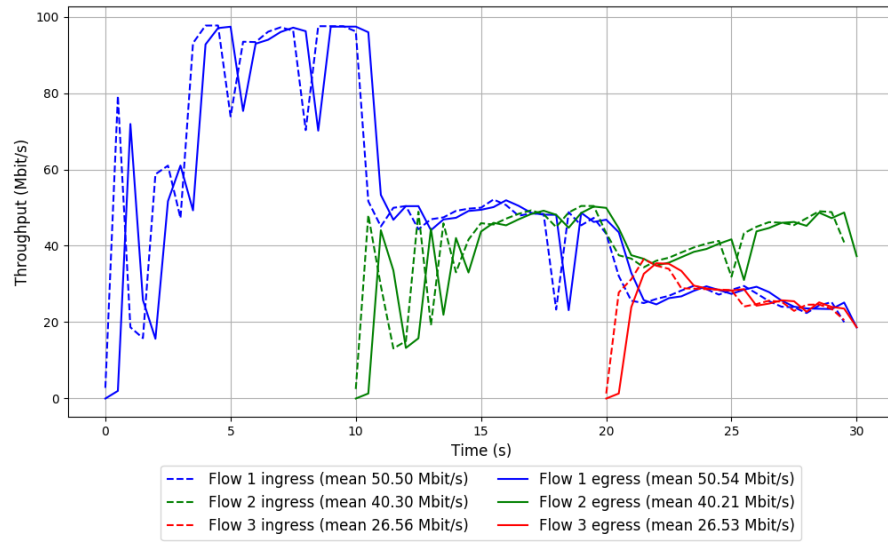
-- Flow 3:

Average throughput: 26.53 Mbit/s

95th percentile per-packet one-way delay: 63.391 ms

Loss rate: 0.85%

# Run 10: Report of QUIC Cubic — Data Link



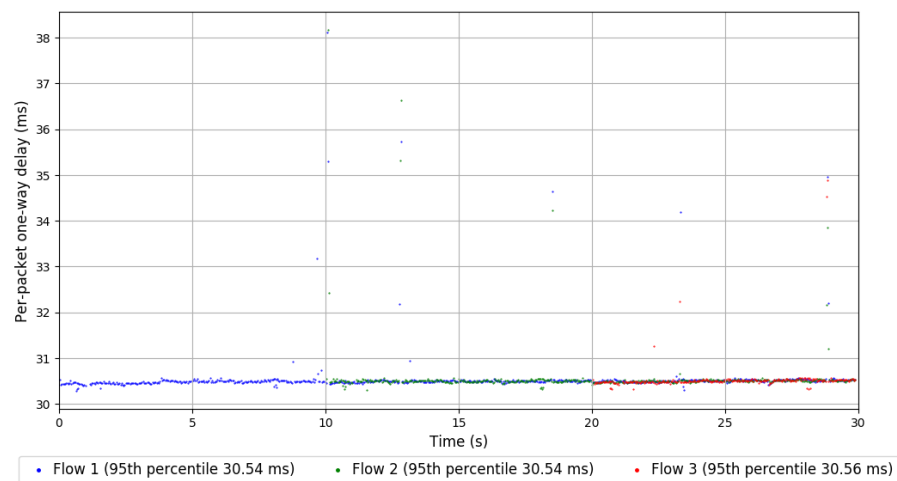
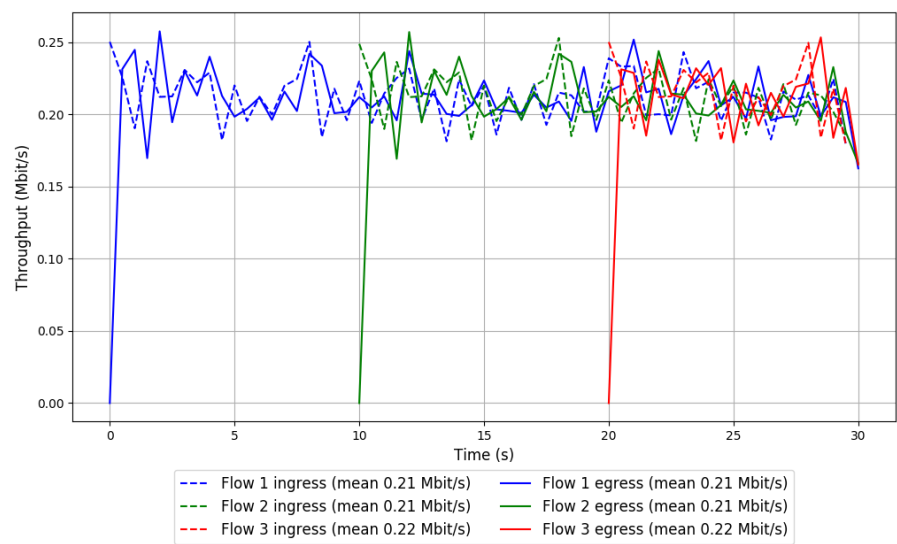
```
Run 1: Statistics of SReAM

Start at: 2018-07-18 09:11:58
End at: 2018-07-18 09:12:28
Local clock offset: 0.329 ms
Remote clock offset: 2.847 ms

# Below is generated by plot.py at 2018-07-18 13:17:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 30.544 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 30.541 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 30.544 ms
Loss rate: 0.39%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 30.556 ms
Loss rate: 0.71%
```



Run 1: Report of SReAM — Data Link



Run 2: Statistics of SReAM

Start at: 2018-07-18 09:35:00

End at: 2018-07-18 09:35:30

Local clock offset: 0.332 ms

Remote clock offset: 3.417 ms

# Below is generated by plot.py at 2018-07-18 13:17:14

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 30.569 ms

Loss rate: 0.31%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 30.550 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 30.502 ms

Loss rate: 0.39%

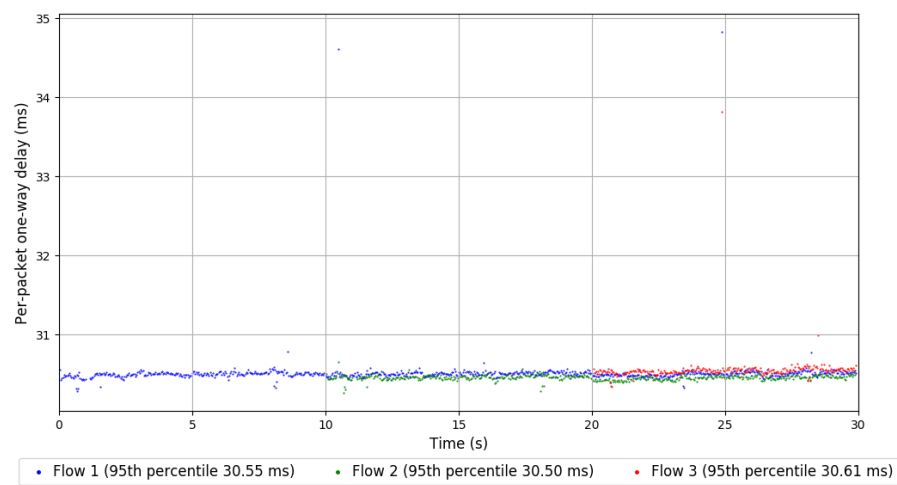
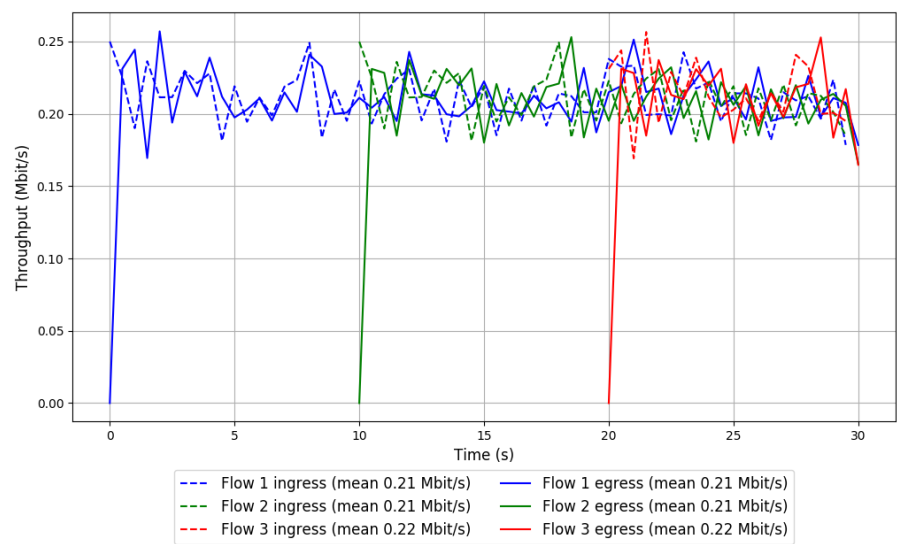
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 30.606 ms

Loss rate: 0.71%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SReAM

Start at: 2018-07-18 09:58:28

End at: 2018-07-18 09:58:58

Local clock offset: 0.309 ms

Remote clock offset: 4.019 ms

# Below is generated by plot.py at 2018-07-18 13:17:14

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.36 Mbit/s

95th percentile per-packet one-way delay: 30.427 ms

Loss rate: 0.47%

-- Flow 1:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 30.413 ms

Loss rate: 0.42%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 30.435 ms

Loss rate: 0.39%

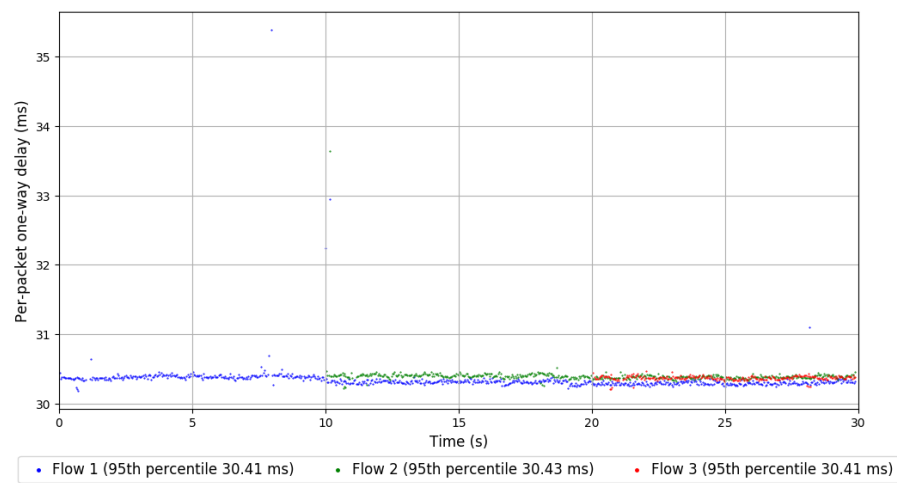
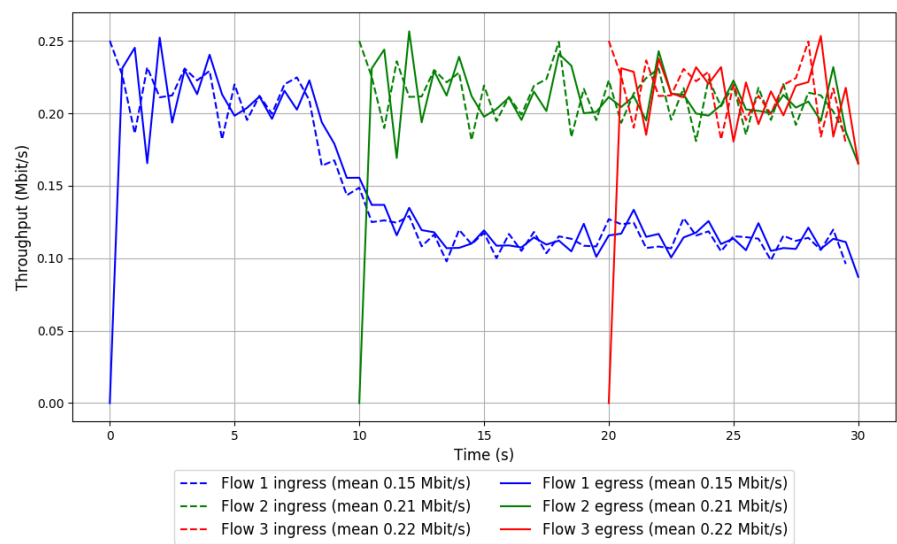
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 30.408 ms

Loss rate: 0.71%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SReAM

Start at: 2018-07-18 10:22:21

End at: 2018-07-18 10:22:51

Local clock offset: 0.253 ms

Remote clock offset: 3.579 ms

# Below is generated by plot.py at 2018-07-18 13:17:14

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 30.574 ms

Loss rate: 0.43%

-- Flow 1:

Average throughput: 0.17 Mbit/s

95th percentile per-packet one-way delay: 30.442 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 30.497 ms

Loss rate: 0.39%

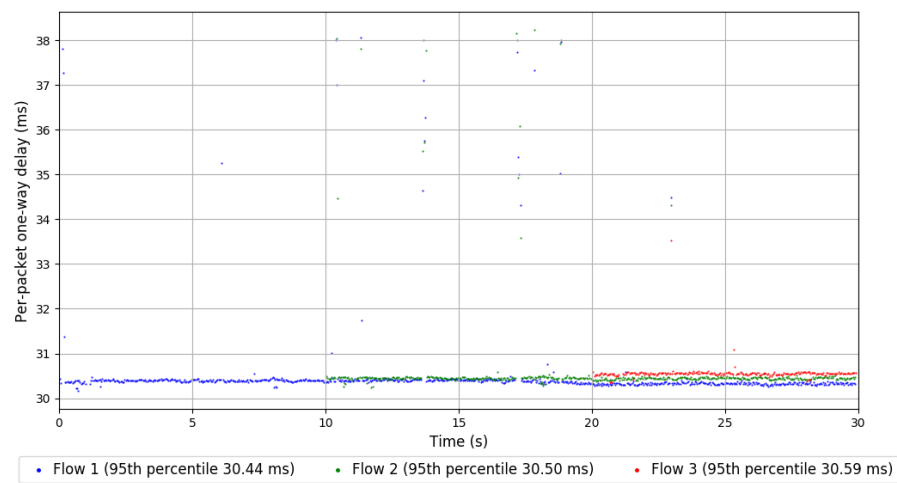
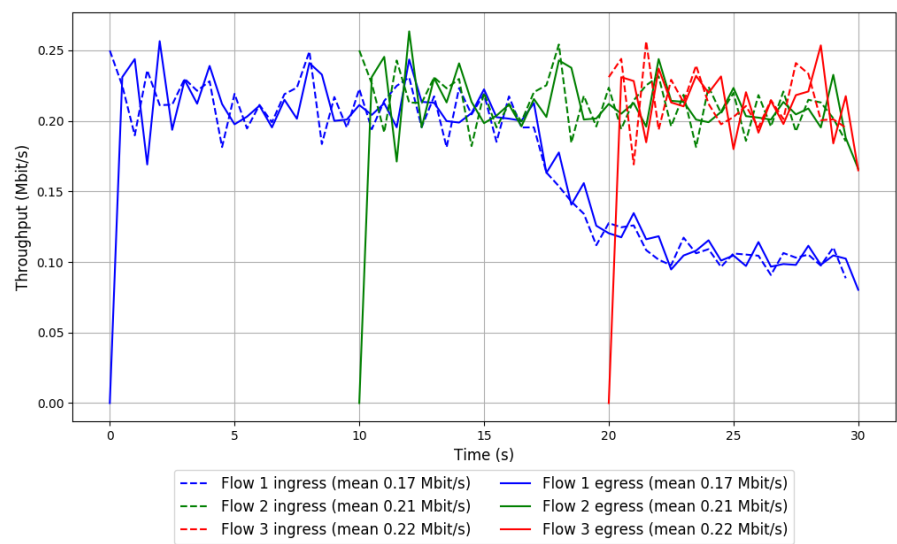
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 30.591 ms

Loss rate: 0.71%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SReAM

Start at: 2018-07-18 10:45:45

End at: 2018-07-18 10:46:15

Local clock offset: 0.055 ms

Remote clock offset: 2.919 ms

# Below is generated by plot.py at 2018-07-18 13:17:14

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 30.386 ms

Loss rate: 0.38%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 30.362 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 30.403 ms

Loss rate: 0.40%

-- Flow 3:

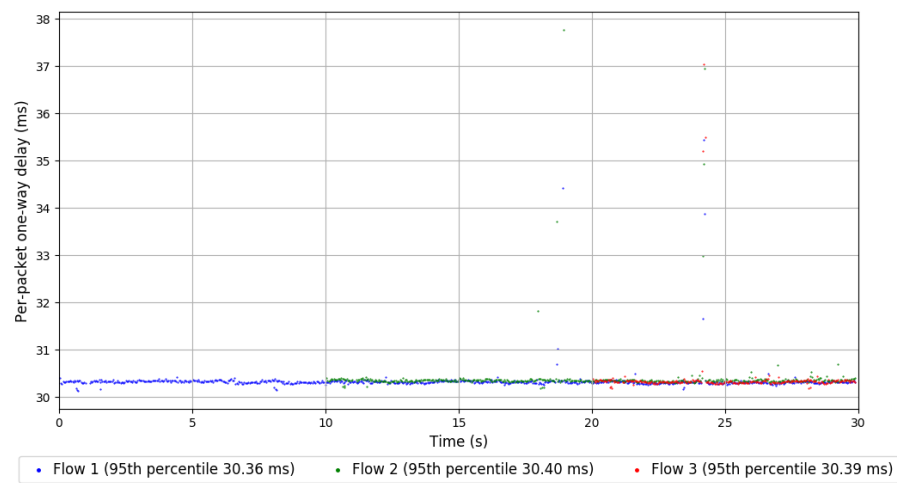
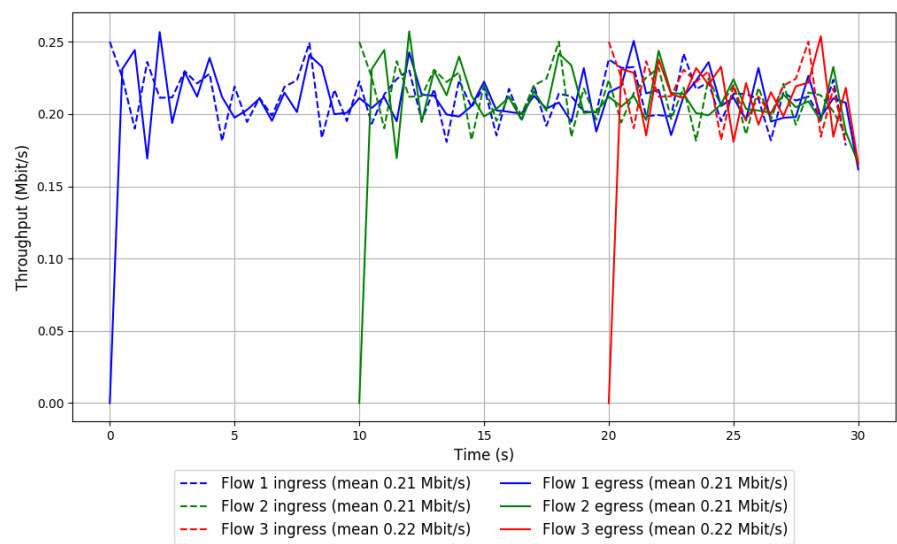
Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 30.386 ms

Loss rate: 0.71%



Run 5: Report of SCReAM — Data Link



Run 6: Statistics of SReAM

Start at: 2018-07-18 11:09:25

End at: 2018-07-18 11:09:55

Local clock offset: 0.13 ms

Remote clock offset: 3.22 ms

# Below is generated by plot.py at 2018-07-18 13:17:14

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 30.262 ms

Loss rate: 0.38%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 30.220 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 30.267 ms

Loss rate: 0.40%

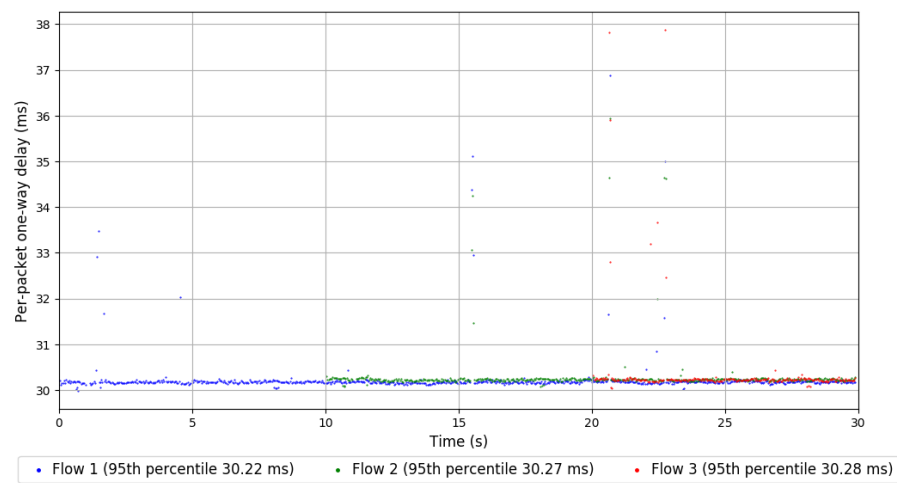
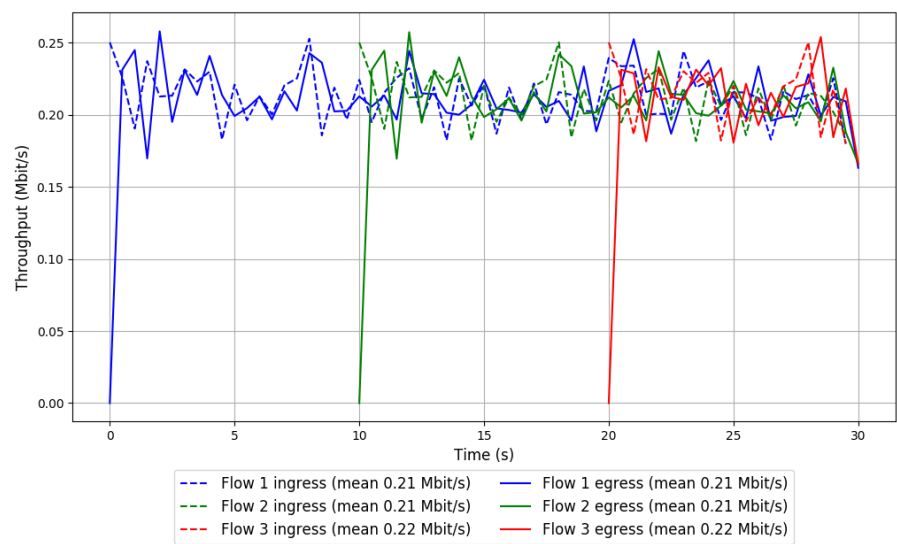
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 30.280 ms

Loss rate: 0.71%

Run 6: Report of SReAM — Data Link

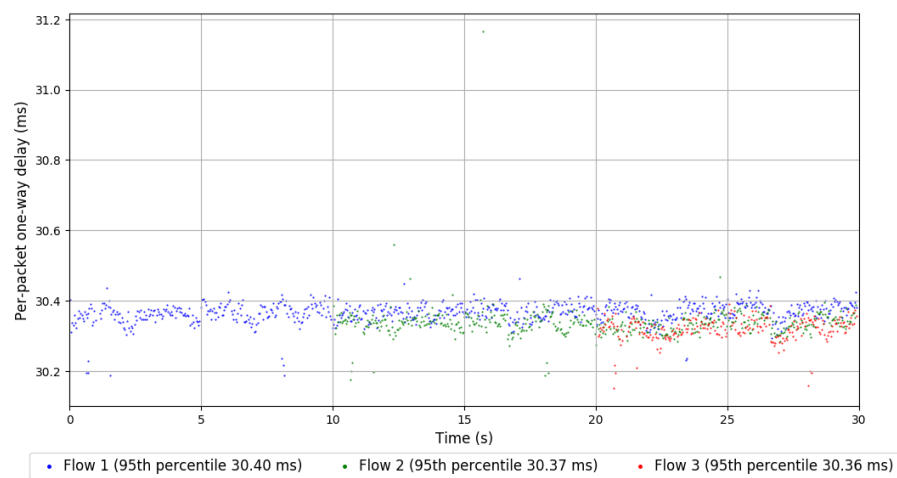
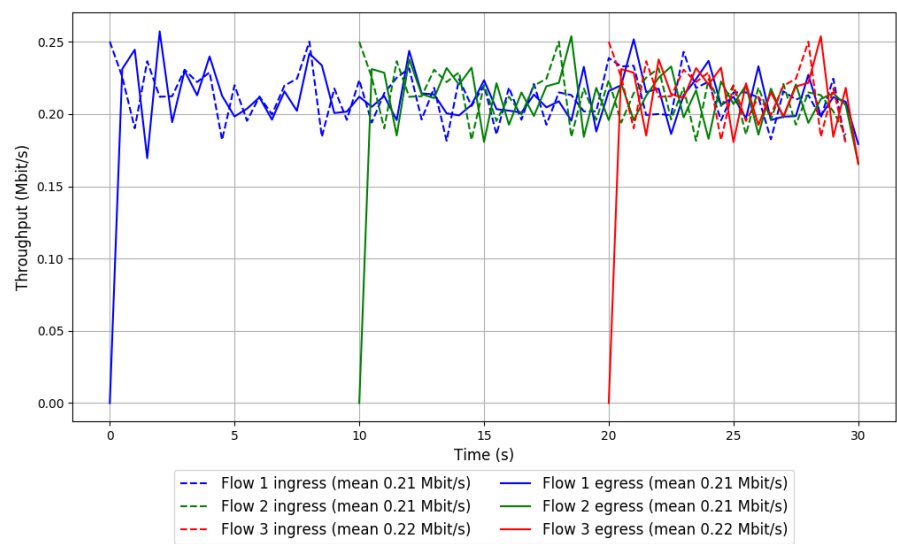


Run 7: Statistics of SReAM

Start at: 2018-07-18 11:32:55  
End at: 2018-07-18 11:33:25  
Local clock offset: 0.068 ms  
Remote clock offset: 3.462 ms

# Below is generated by plot.py at 2018-07-18 13:17:14  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 30.397 ms  
Loss rate: 0.31%  
-- Flow 1:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 30.403 ms  
Loss rate: 0.13%  
-- Flow 2:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 30.374 ms  
Loss rate: 0.39%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 30.365 ms  
Loss rate: 0.71%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SReAM

Start at: 2018-07-18 11:56:29

End at: 2018-07-18 11:56:59

Local clock offset: -2.082 ms

Remote clock offset: 2.551 ms

# Below is generated by plot.py at 2018-07-18 13:17:14

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 30.500 ms

Loss rate: 0.38%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 30.509 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 30.427 ms

Loss rate: 0.39%

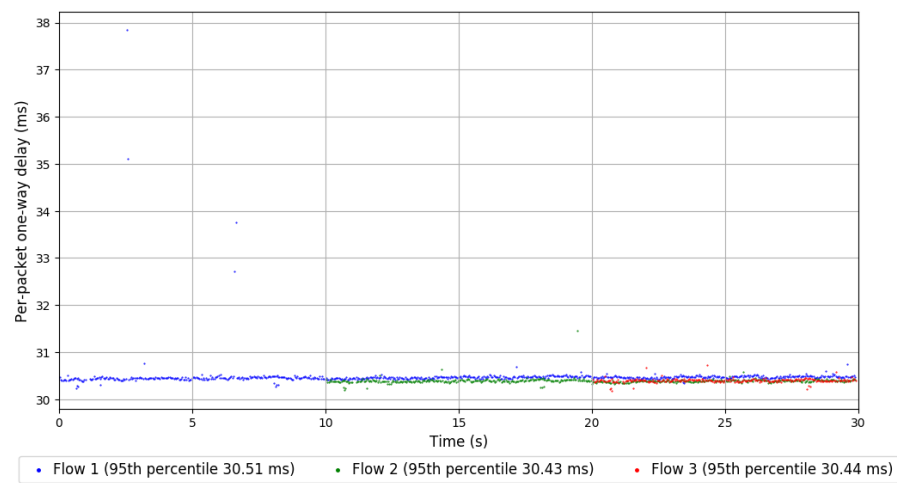
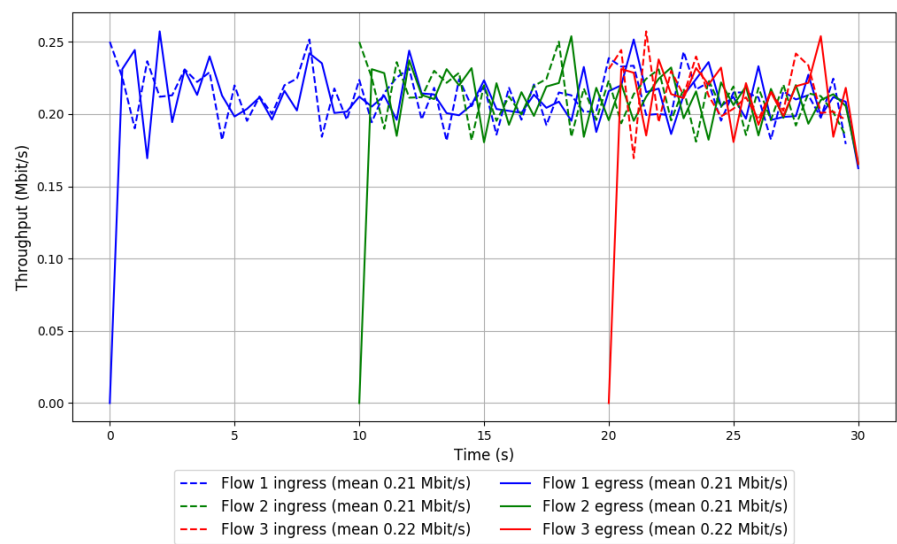
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 30.443 ms

Loss rate: 0.71%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SReAM

Start at: 2018-07-18 12:19:57

End at: 2018-07-18 12:20:27

Local clock offset: -3.867 ms

Remote clock offset: 1.577 ms

# Below is generated by plot.py at 2018-07-18 13:17:14

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 30.494 ms

Loss rate: 0.38%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 30.469 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 30.492 ms

Loss rate: 0.39%

-- Flow 3:

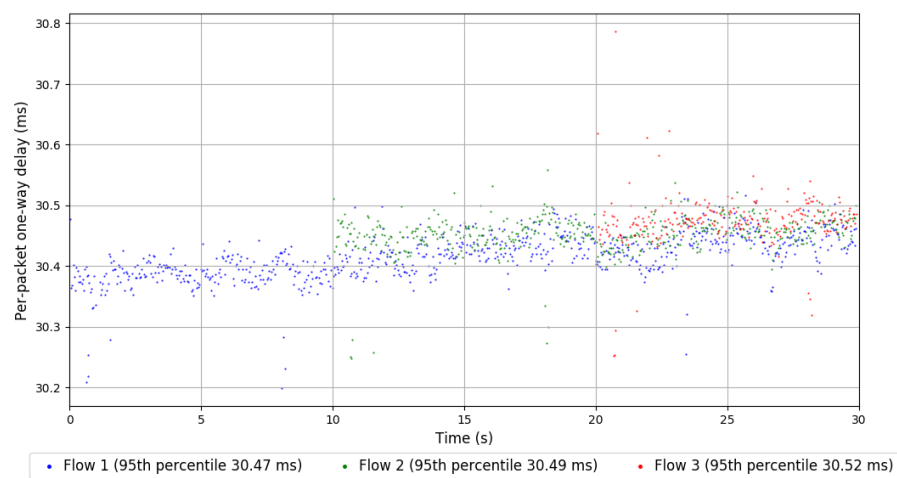
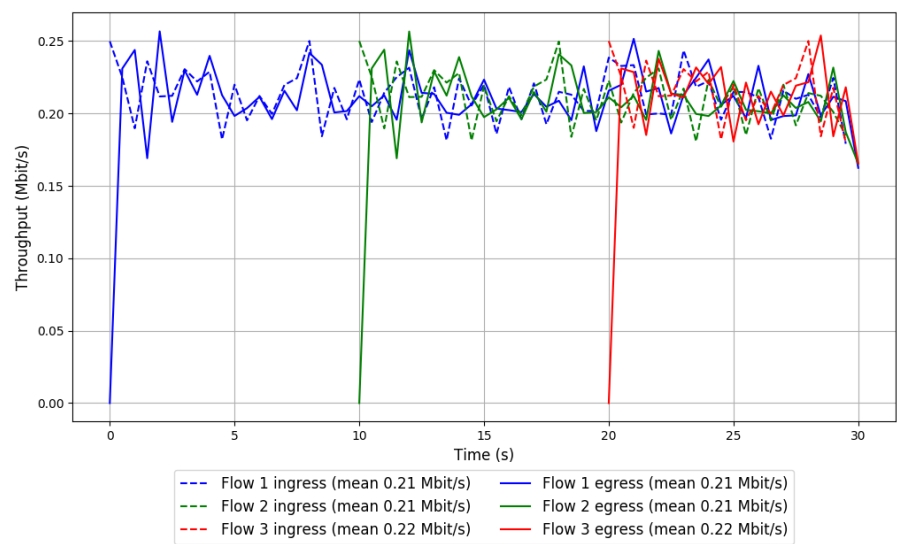
Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 30.515 ms

Loss rate: 0.71%



Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-07-18 12:43:22

End at: 2018-07-18 12:43:53

Local clock offset: -4.936 ms

Remote clock offset: 1.033 ms

# Below is generated by plot.py at 2018-07-18 13:17:14

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 30.485 ms

Loss rate: 0.38%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 30.419 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 30.497 ms

Loss rate: 0.40%

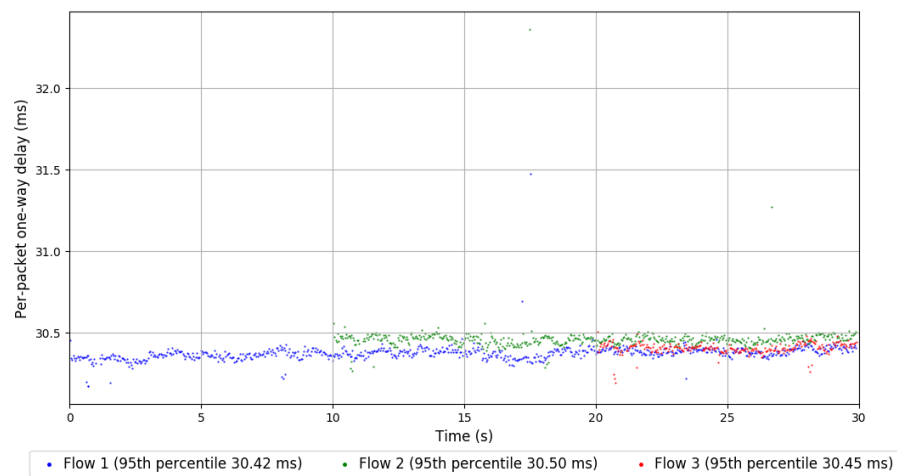
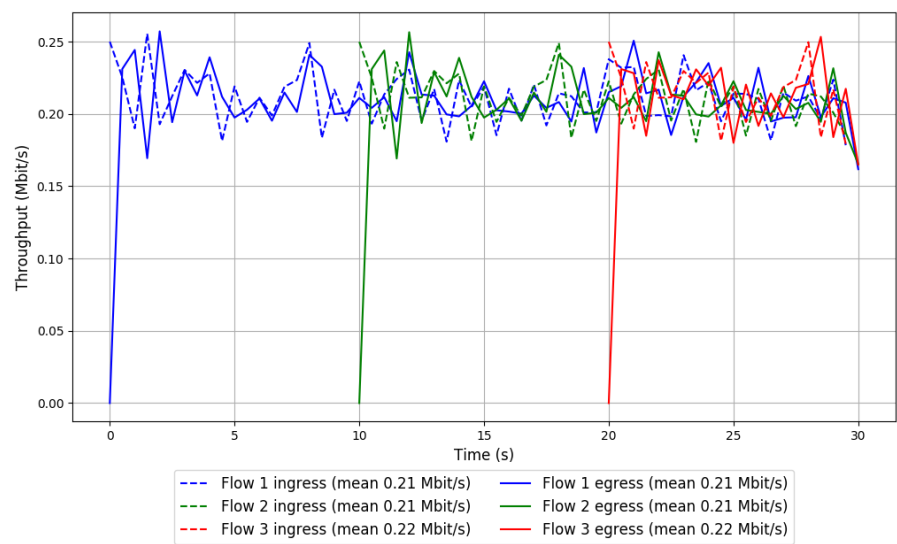
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 30.448 ms

Loss rate: 0.71%

Run 10: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2018-07-18 09:03:49

End at: 2018-07-18 09:04:19

Local clock offset: 0.242 ms

Remote clock offset: 2.338 ms

# Below is generated by plot.py at 2018-07-18 13:17:14

# Datalink statistics

-- Total of 3 flows:

Average throughput: 20.98 Mbit/s

95th percentile per-packet one-way delay: 38.176 ms

Loss rate: 0.40%

-- Flow 1:

Average throughput: 10.63 Mbit/s

95th percentile per-packet one-way delay: 37.657 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 10.67 Mbit/s

95th percentile per-packet one-way delay: 38.976 ms

Loss rate: 0.43%

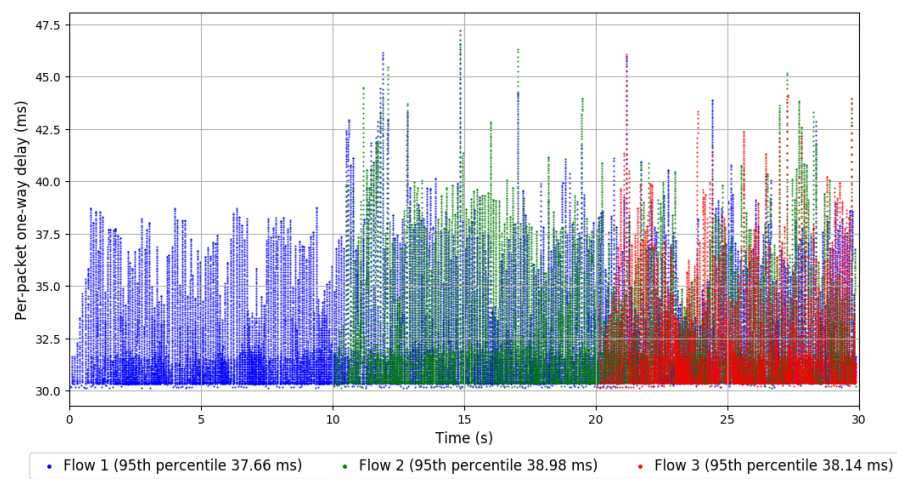
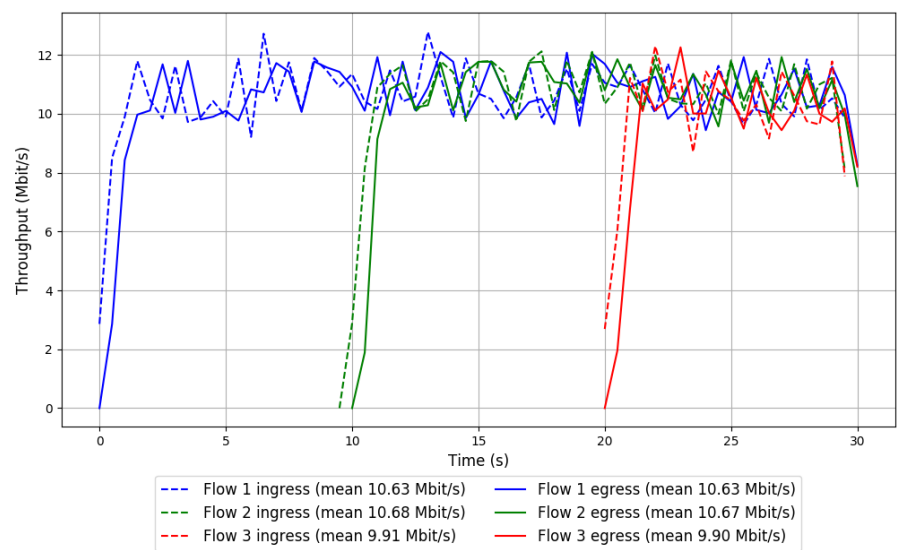
-- Flow 3:

Average throughput: 9.90 Mbit/s

95th percentile per-packet one-way delay: 38.142 ms

Loss rate: 0.79%

Run 1: Report of Sprout — Data Link



## Run 2: Statistics of Sprout

Start at: 2018-07-18 09:26:49

End at: 2018-07-18 09:27:19

Local clock offset: 0.281 ms

Remote clock offset: 3.428 ms

# Below is generated by plot.py at 2018-07-18 13:17:14

# Datalink statistics

-- Total of 3 flows:

Average throughput: 21.02 Mbit/s

95th percentile per-packet one-way delay: 38.905 ms

Loss rate: 0.64%

-- Flow 1:

Average throughput: 10.68 Mbit/s

95th percentile per-packet one-way delay: 38.380 ms

Loss rate: 0.63%

-- Flow 2:

Average throughput: 10.51 Mbit/s

95th percentile per-packet one-way delay: 39.460 ms

Loss rate: 0.64%

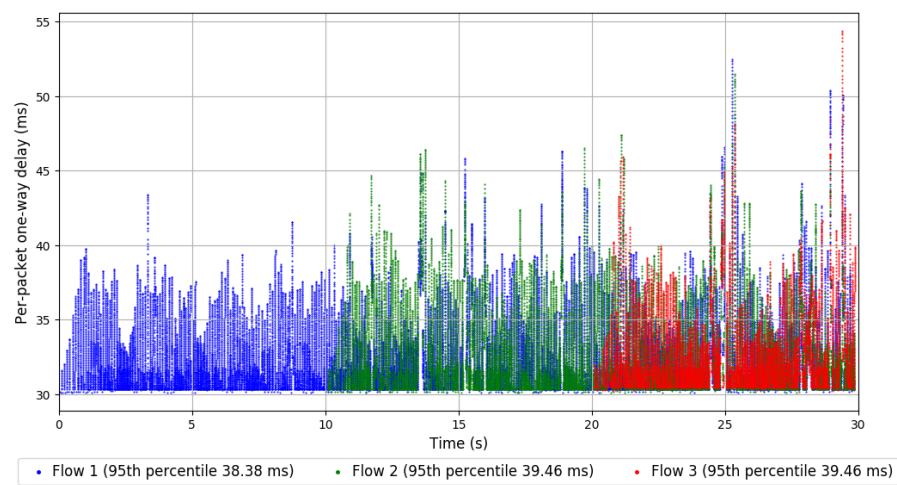
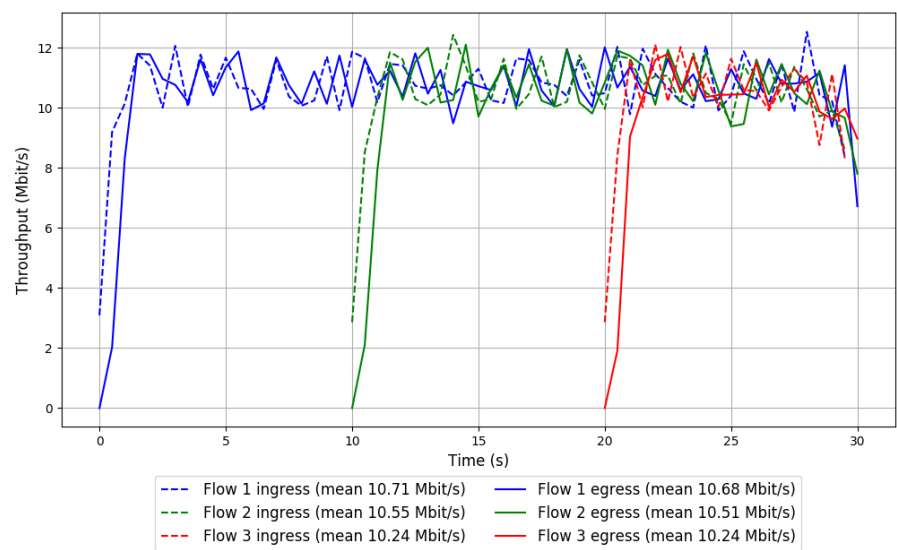
-- Flow 3:

Average throughput: 10.24 Mbit/s

95th percentile per-packet one-way delay: 39.463 ms

Loss rate: 0.68%

Run 2: Report of Sprout — Data Link



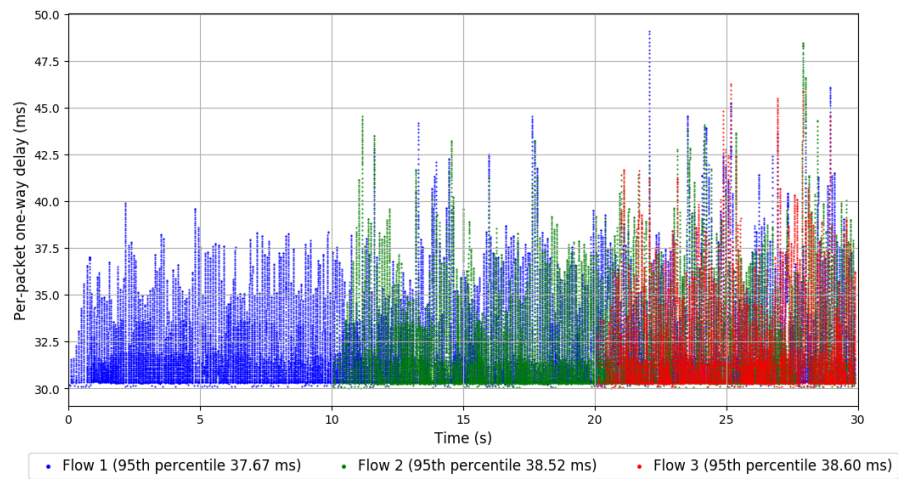
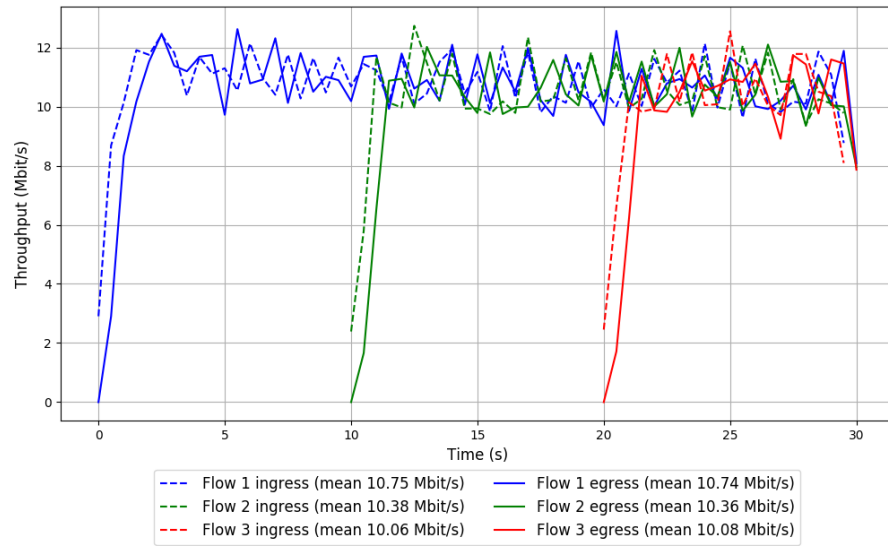
### Run 3: Statistics of Sprout

Start at: 2018-07-18 09:50:07  
End at: 2018-07-18 09:50:37  
Local clock offset: 0.271 ms  
Remote clock offset: 4.034 ms

```
# Below is generated by plot.py at 2018-07-18 13:17:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 20.94 Mbit/s
95th percentile per-packet one-way delay: 38.137 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 10.74 Mbit/s
95th percentile per-packet one-way delay: 37.672 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 10.36 Mbit/s
95th percentile per-packet one-way delay: 38.519 ms
Loss rate: 0.52%
-- Flow 3:
Average throughput: 10.08 Mbit/s
95th percentile per-packet one-way delay: 38.601 ms
Loss rate: 0.20%
```



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



#### Run 4: Statistics of Sprout

Start at: 2018-07-18 10:13:43

End at: 2018-07-18 10:14:13

Local clock offset: 0.213 ms

Remote clock offset: 3.601 ms

# Below is generated by plot.py at 2018-07-18 13:17:14

# Datalink statistics

-- Total of 3 flows:

Average throughput: 20.75 Mbit/s

95th percentile per-packet one-way delay: 38.078 ms

Loss rate: 0.45%

-- Flow 1:

Average throughput: 10.50 Mbit/s

95th percentile per-packet one-way delay: 37.899 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 10.35 Mbit/s

95th percentile per-packet one-way delay: 38.176 ms

Loss rate: 0.49%

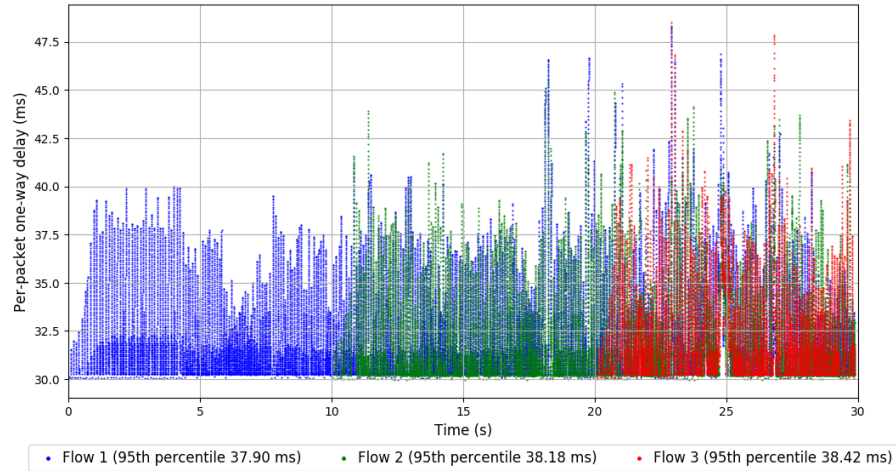
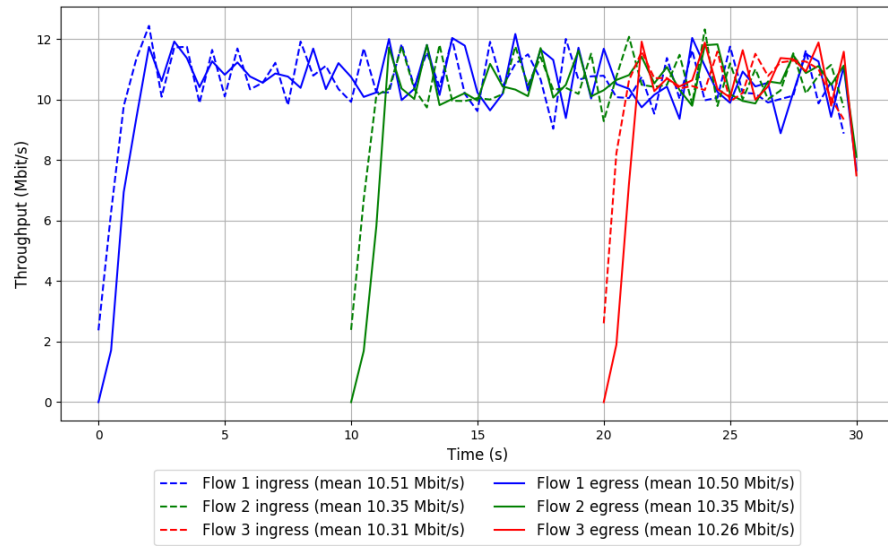
-- Flow 3:

Average throughput: 10.26 Mbit/s

95th percentile per-packet one-way delay: 38.417 ms

Loss rate: 0.95%

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

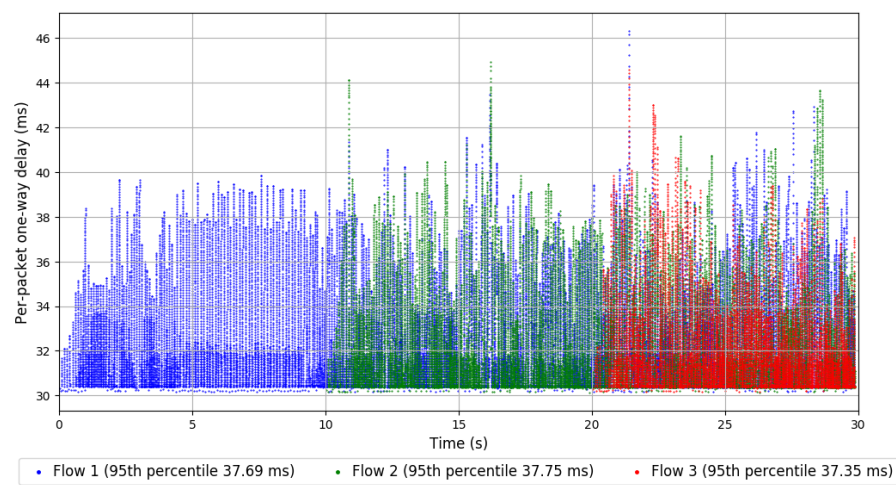
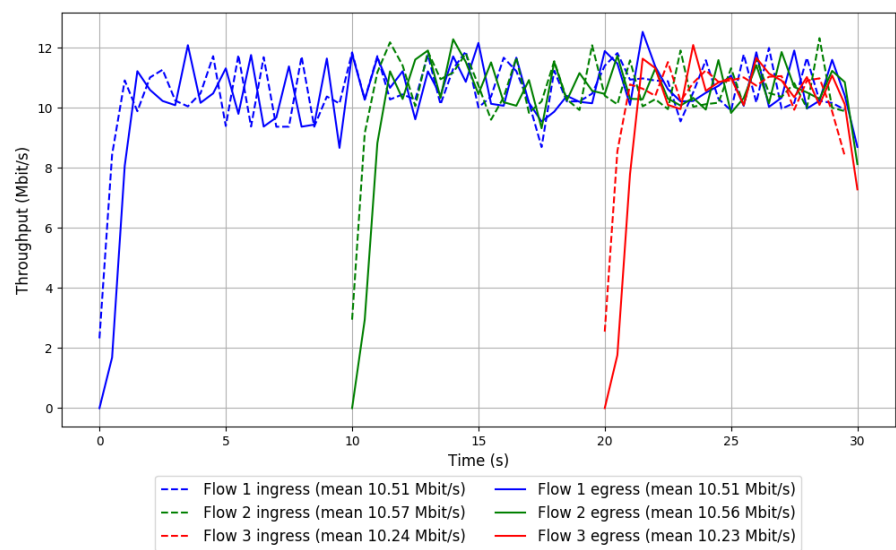


Run 5: Statistics of Sprout

Start at: 2018-07-18 10:37:23  
End at: 2018-07-18 10:37:53  
Local clock offset: 0.152 ms  
Remote clock offset: 3.16 ms

# Below is generated by plot.py at 2018-07-18 13:17:14  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 20.89 Mbit/s  
95th percentile per-packet one-way delay: 37.671 ms  
Loss rate: 0.39%  
-- Flow 1:  
Average throughput: 10.51 Mbit/s  
95th percentile per-packet one-way delay: 37.687 ms  
Loss rate: 0.20%  
-- Flow 2:  
Average throughput: 10.56 Mbit/s  
95th percentile per-packet one-way delay: 37.752 ms  
Loss rate: 0.48%  
-- Flow 3:  
Average throughput: 10.23 Mbit/s  
95th percentile per-packet one-way delay: 37.353 ms  
Loss rate: 0.81%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-07-18 11:00:44

End at: 2018-07-18 11:01:14

Local clock offset: 0.196 ms

Remote clock offset: 3.134 ms

# Below is generated by plot.py at 2018-07-18 13:17:14

# Datalink statistics

-- Total of 3 flows:

Average throughput: 20.81 Mbit/s

95th percentile per-packet one-way delay: 37.633 ms

Loss rate: 0.44%

-- Flow 1:

Average throughput: 10.59 Mbit/s

95th percentile per-packet one-way delay: 37.570 ms

Loss rate: 0.20%

-- Flow 2:

Average throughput: 10.40 Mbit/s

95th percentile per-packet one-way delay: 37.664 ms

Loss rate: 0.54%

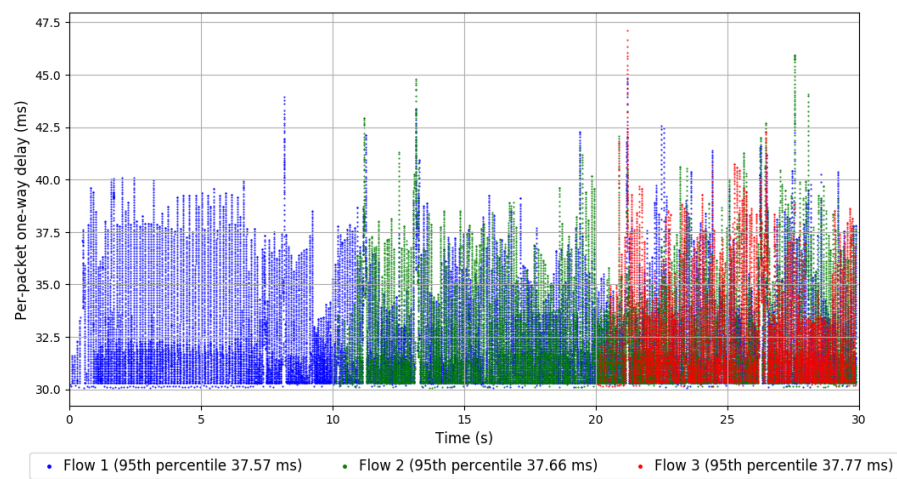
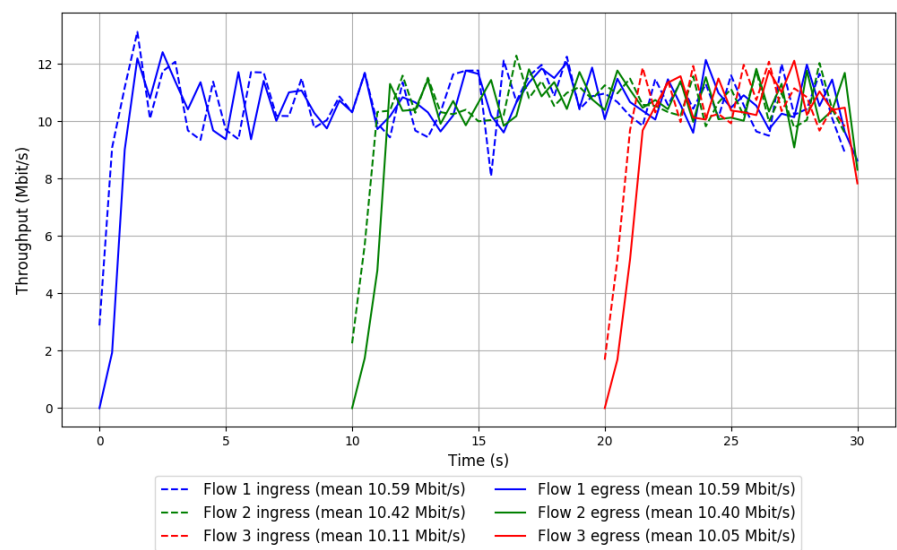
-- Flow 3:

Average throughput: 10.05 Mbit/s

95th percentile per-packet one-way delay: 37.766 ms

Loss rate: 1.02%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-07-18 11:24:25

End at: 2018-07-18 11:24:55

Local clock offset: 0.194 ms

Remote clock offset: 3.423 ms

# Below is generated by plot.py at 2018-07-18 13:17:14

# Datalink statistics

-- Total of 3 flows:

Average throughput: 21.19 Mbit/s

95th percentile per-packet one-way delay: 37.828 ms

Loss rate: 0.21%

-- Flow 1:

Average throughput: 10.82 Mbit/s

95th percentile per-packet one-way delay: 38.011 ms

Loss rate: 0.23%

-- Flow 2:

Average throughput: 10.61 Mbit/s

95th percentile per-packet one-way delay: 37.560 ms

Loss rate: 0.08%

-- Flow 3:

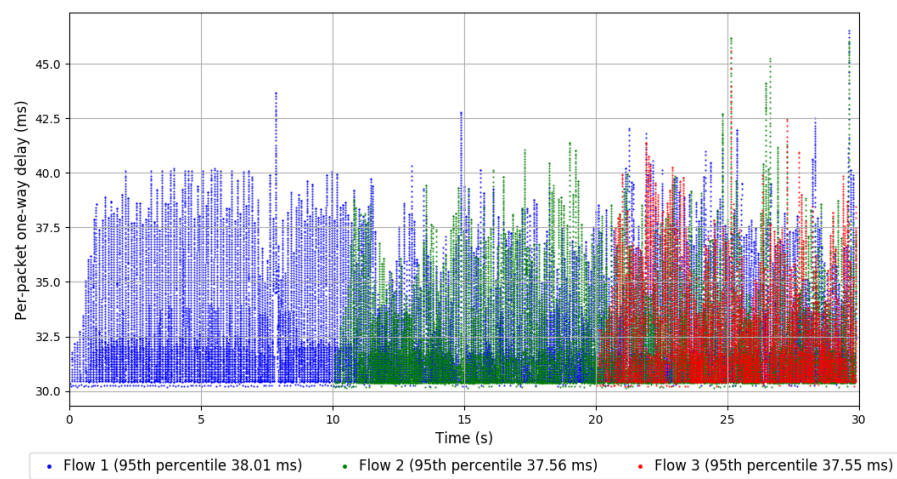
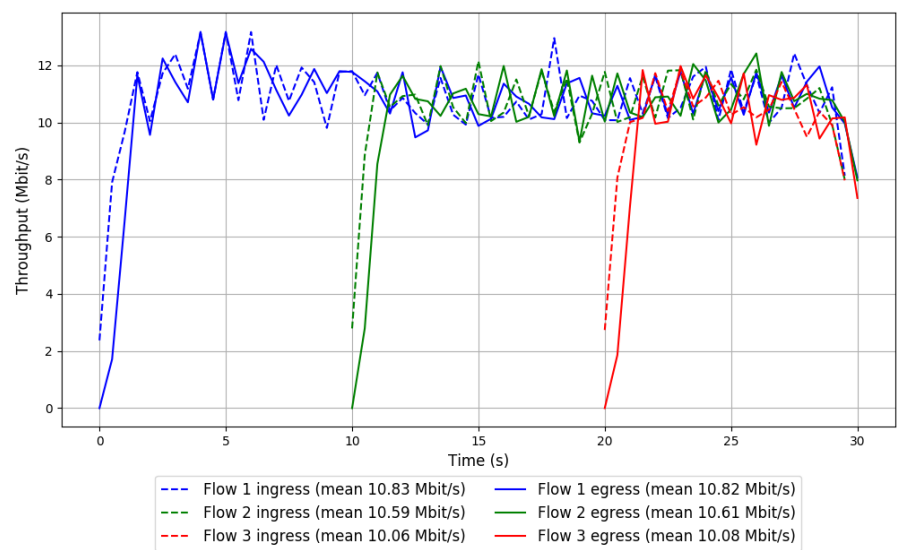
Average throughput: 10.08 Mbit/s

95th percentile per-packet one-way delay: 37.551 ms

Loss rate: 0.44%



Run 7: Report of Sprout — Data Link

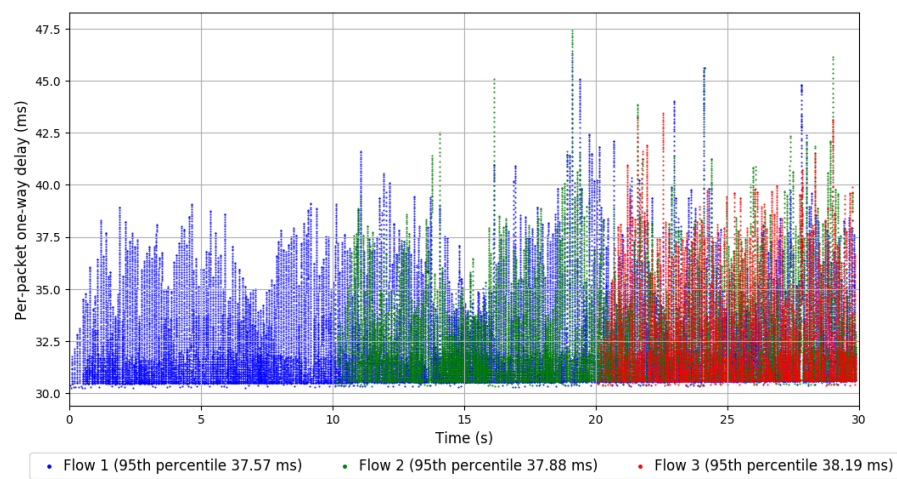
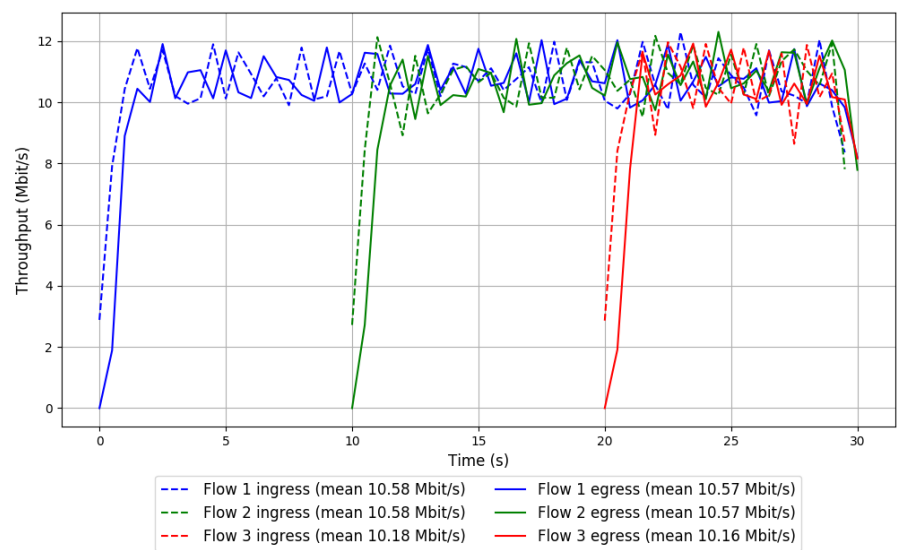


Run 8: Statistics of Sprout

Start at: 2018-07-18 11:47:53  
End at: 2018-07-18 11:48:23  
Local clock offset: -0.149 ms  
Remote clock offset: 3.039 ms

# Below is generated by plot.py at 2018-07-18 13:17:14  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 20.93 Mbit/s  
95th percentile per-packet one-way delay: 37.783 ms  
Loss rate: 0.38%  
-- Flow 1:  
Average throughput: 10.57 Mbit/s  
95th percentile per-packet one-way delay: 37.566 ms  
Loss rate: 0.29%  
-- Flow 2:  
Average throughput: 10.57 Mbit/s  
95th percentile per-packet one-way delay: 37.882 ms  
Loss rate: 0.27%  
-- Flow 3:  
Average throughput: 10.16 Mbit/s  
95th percentile per-packet one-way delay: 38.190 ms  
Loss rate: 0.86%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-07-18 12:11:37

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

Local clock offset: -3.476 ms

Remote clock offset: 1.614 ms

# Below is generated by plot.py at 2018-07-18 13:17:14

# Datalink statistics

-- Total of 3 flows:

Average throughput: 21.46 Mbit/s

95th percentile per-packet one-way delay: 37.740 ms

Loss rate: 0.38%

-- Flow 1:

Average throughput: 10.91 Mbit/s

95th percentile per-packet one-way delay: 37.818 ms

Loss rate: 0.15%

-- Flow 2:

Average throughput: 10.70 Mbit/s

95th percentile per-packet one-way delay: 37.558 ms

Loss rate: 0.45%

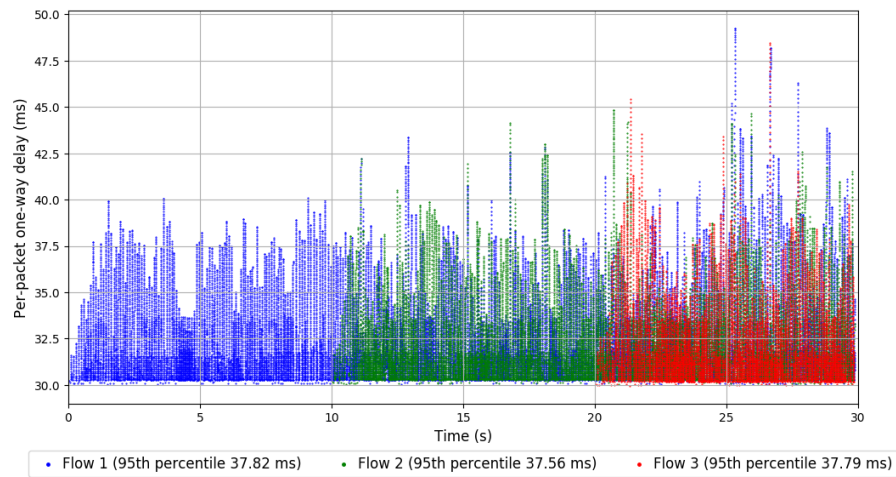
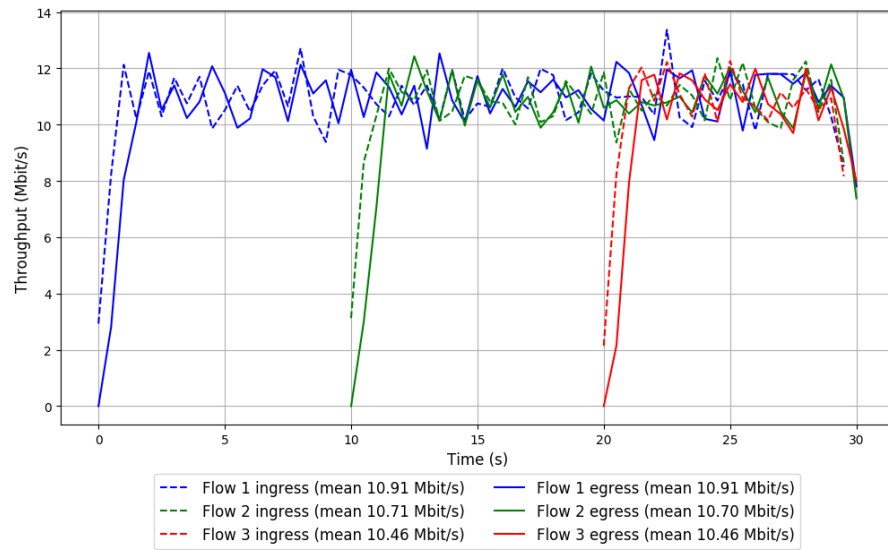
-- Flow 3:

Average throughput: 10.46 Mbit/s

95th percentile per-packet one-way delay: 37.794 ms

Loss rate: 0.94%

# Run 9: Report of Sprout — Data Link

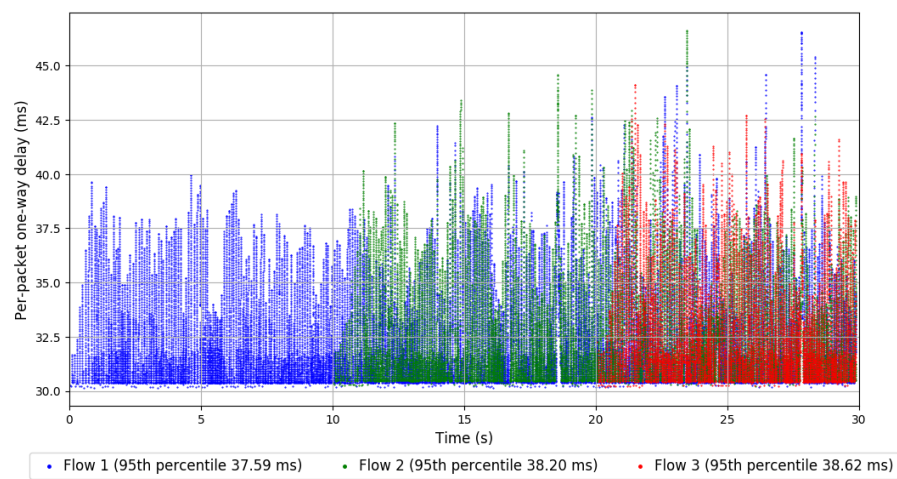
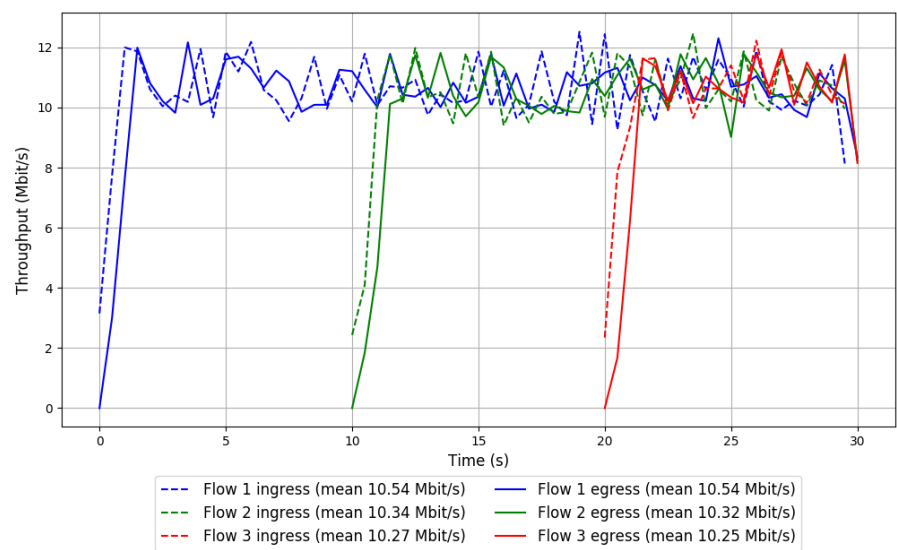


Run 10: Statistics of Sprout

Start at: 2018-07-18 12:34:59  
End at: 2018-07-18 12:35:29  
Local clock offset: -4.513 ms  
Remote clock offset: 1.225 ms

```
# Below is generated by plot.py at 2018-07-18 13:17:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 20.77 Mbit/s
95th percentile per-packet one-way delay: 37.971 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 10.54 Mbit/s
95th percentile per-packet one-way delay: 37.589 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 10.32 Mbit/s
95th percentile per-packet one-way delay: 38.197 ms
Loss rate: 0.47%
-- Flow 3:
Average throughput: 10.25 Mbit/s
95th percentile per-packet one-way delay: 38.618 ms
Loss rate: 0.96%
```

Run 10: Report of Sprout — Data Link



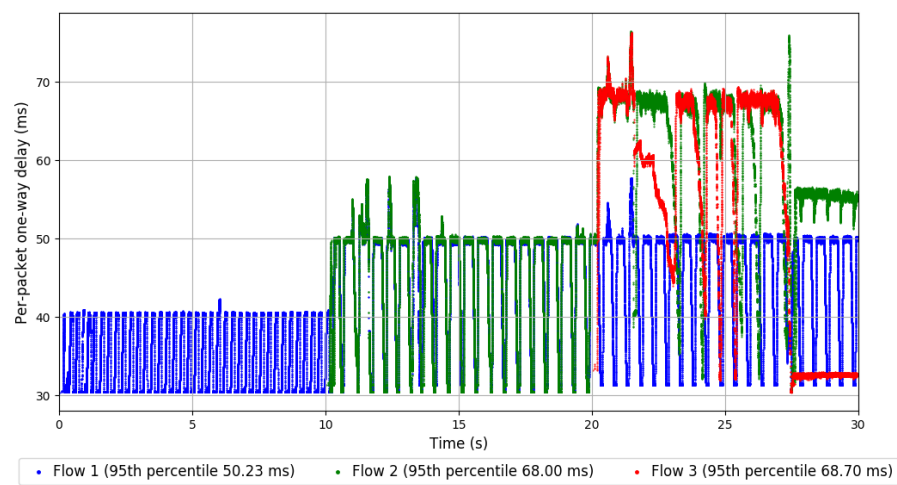
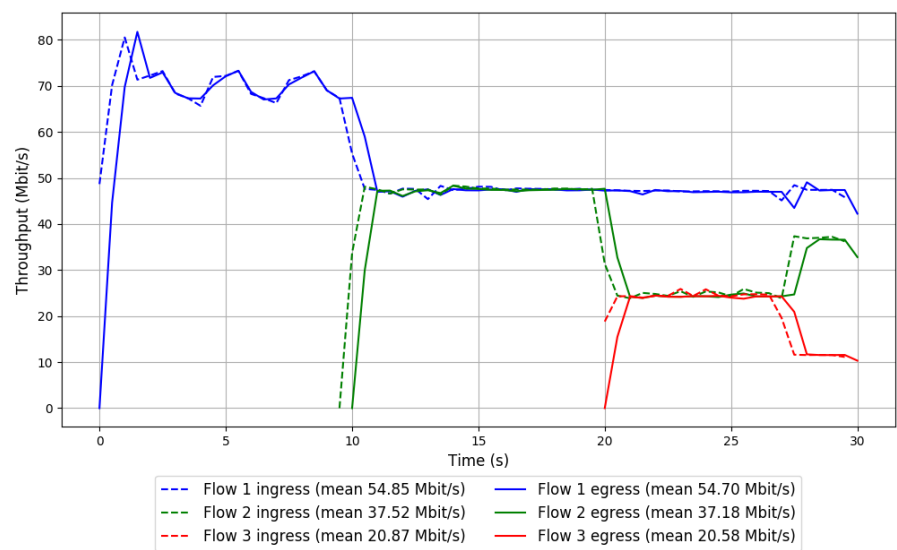
```
Run 1: Statistics of TaoVA-100x

Start at: 2018-07-18 09:09:15
End at: 2018-07-18 09:09:45
Local clock offset: 0.338 ms
Remote clock offset: 2.694 ms

# Below is generated by plot.py at 2018-07-18 13:18:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.27 Mbit/s
95th percentile per-packet one-way delay: 67.522 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 54.70 Mbit/s
95th percentile per-packet one-way delay: 50.228 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 37.18 Mbit/s
95th percentile per-packet one-way delay: 67.999 ms
Loss rate: 1.28%
-- Flow 3:
Average throughput: 20.58 Mbit/s
95th percentile per-packet one-way delay: 68.700 ms
Loss rate: 2.03%
```



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



Run 2: Statistics of TaoVA-100x

Start at: 2018-07-18 09:32:15

End at: 2018-07-18 09:32:45

Local clock offset: 0.228 ms

Remote clock offset: 3.425 ms

# Below is generated by plot.py at 2018-07-18 13:18:42

# Datalink statistics

-- Total of 3 flows:

Average throughput: 86.85 Mbit/s

95th percentile per-packet one-way delay: 59.169 ms

Loss rate: 1.50%

-- Flow 1:

Average throughput: 50.16 Mbit/s

95th percentile per-packet one-way delay: 59.020 ms

Loss rate: 1.09%

-- Flow 2:

Average throughput: 39.43 Mbit/s

95th percentile per-packet one-way delay: 59.151 ms

Loss rate: 1.39%

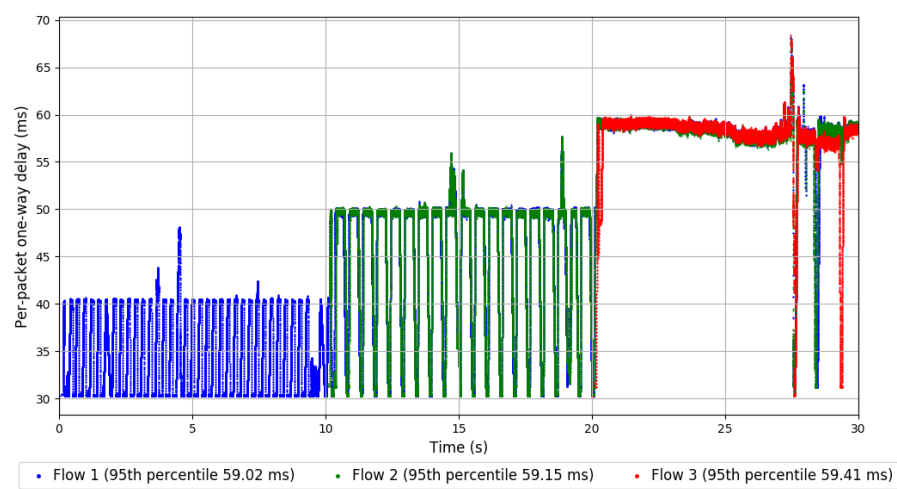
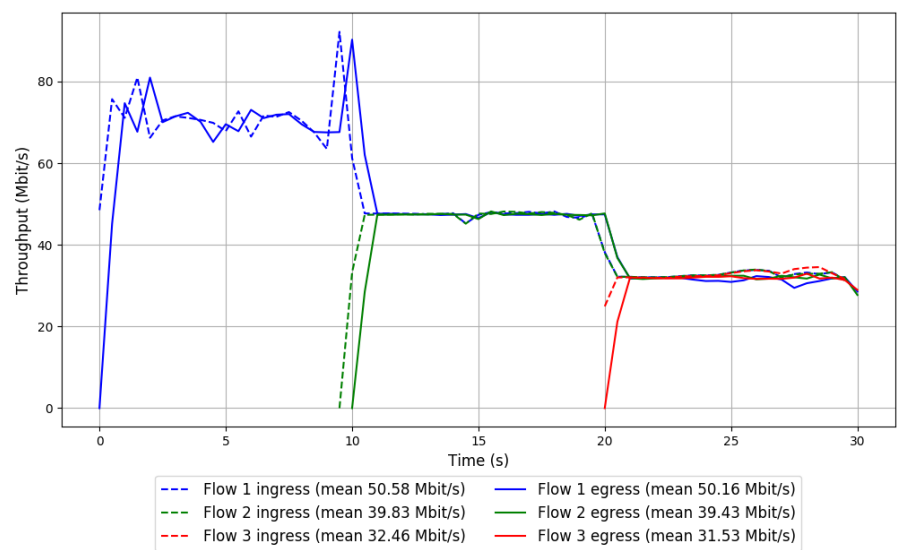
-- Flow 3:

Average throughput: 31.53 Mbit/s

95th percentile per-packet one-way delay: 59.409 ms

Loss rate: 3.65%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-07-18 09:55:42

End at: 2018-07-18 09:56:12

Local clock offset: 0.229 ms

Remote clock offset: 4.158 ms

# Below is generated by plot.py at 2018-07-18 13:18:46

# Datalink statistics

-- Total of 3 flows:

Average throughput: 86.47 Mbit/s

95th percentile per-packet one-way delay: 59.167 ms

Loss rate: 1.53%

-- Flow 1:

Average throughput: 49.82 Mbit/s

95th percentile per-packet one-way delay: 58.963 ms

Loss rate: 0.99%

-- Flow 2:

Average throughput: 39.36 Mbit/s

95th percentile per-packet one-way delay: 59.040 ms

Loss rate: 1.81%

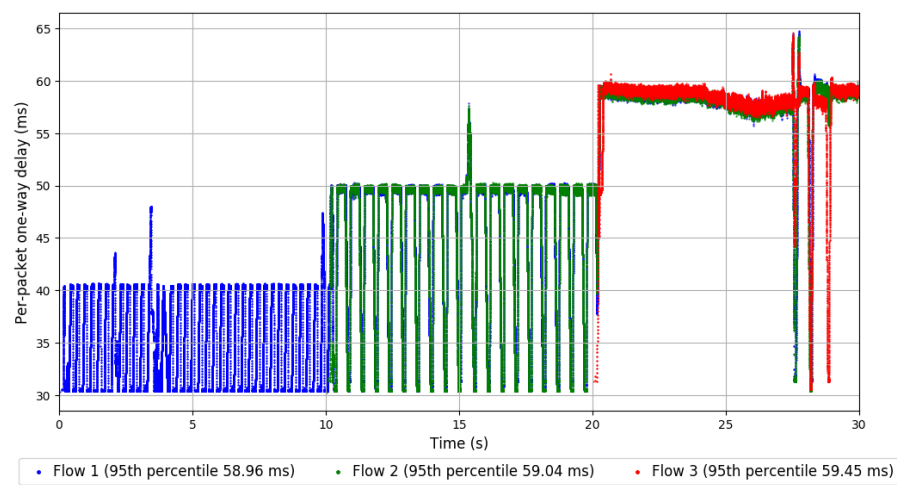
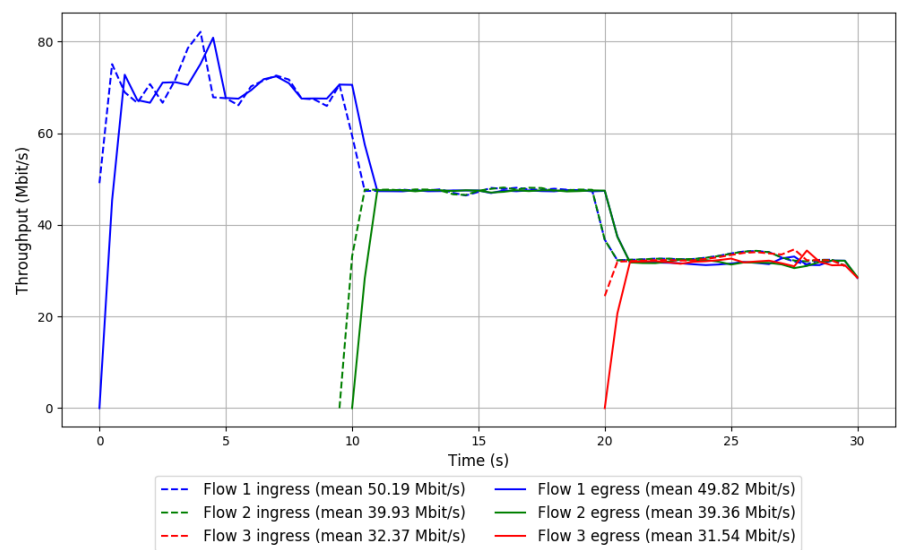
-- Flow 3:

Average throughput: 31.54 Mbit/s

95th percentile per-packet one-way delay: 59.449 ms

Loss rate: 3.34%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-07-18 10:19:26

End at: 2018-07-18 10:19:56

Local clock offset: 0.281 ms

Remote clock offset: 3.597 ms

# Below is generated by plot.py at 2018-07-18 13:18:47

# Datalink statistics

-- Total of 3 flows:

Average throughput: 85.29 Mbit/s

95th percentile per-packet one-way delay: 67.884 ms

Loss rate: 1.28%

-- Flow 1:

Average throughput: 46.45 Mbit/s

95th percentile per-packet one-way delay: 67.720 ms

Loss rate: 1.21%

-- Flow 2:

Average throughput: 35.40 Mbit/s

95th percentile per-packet one-way delay: 68.407 ms

Loss rate: 1.41%

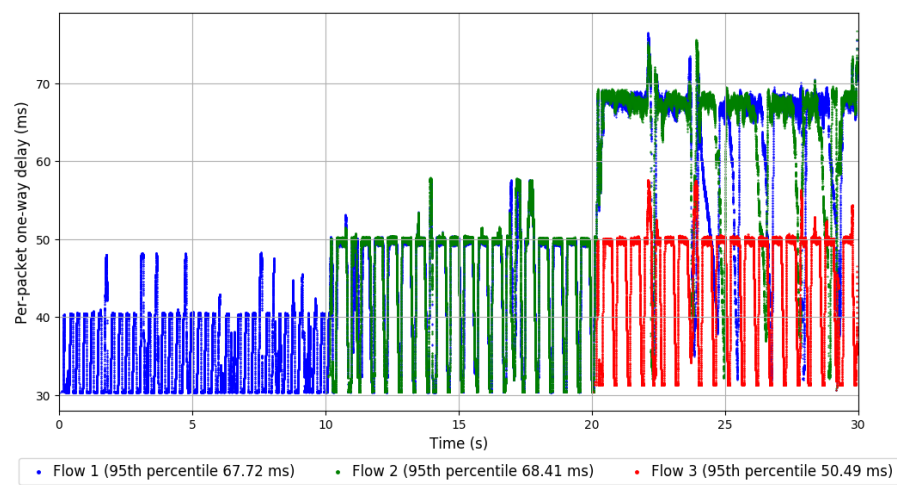
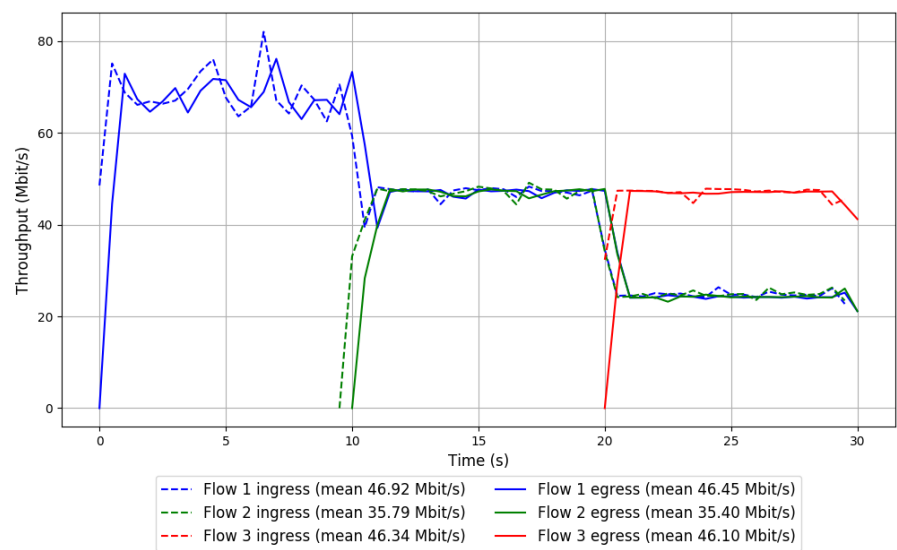
-- Flow 3:

Average throughput: 46.10 Mbit/s

95th percentile per-packet one-way delay: 50.486 ms

Loss rate: 1.28%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-07-18 10:42:56

End at: 2018-07-18 10:43:26

Local clock offset: 0.144 ms

Remote clock offset: 2.896 ms

# Below is generated by plot.py at 2018-07-18 13:18:50

# Datalink statistics

-- Total of 3 flows:

Average throughput: 87.04 Mbit/s

95th percentile per-packet one-way delay: 68.127 ms

Loss rate: 0.78%

-- Flow 1:

Average throughput: 48.09 Mbit/s

95th percentile per-packet one-way delay: 68.022 ms

Loss rate: 0.56%

-- Flow 2:

Average throughput: 35.60 Mbit/s

95th percentile per-packet one-way delay: 68.483 ms

Loss rate: 1.06%

-- Flow 3:

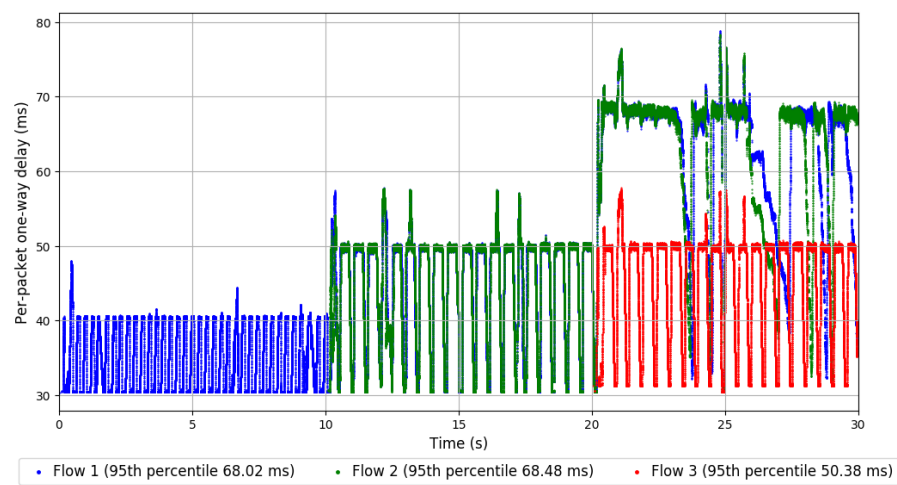
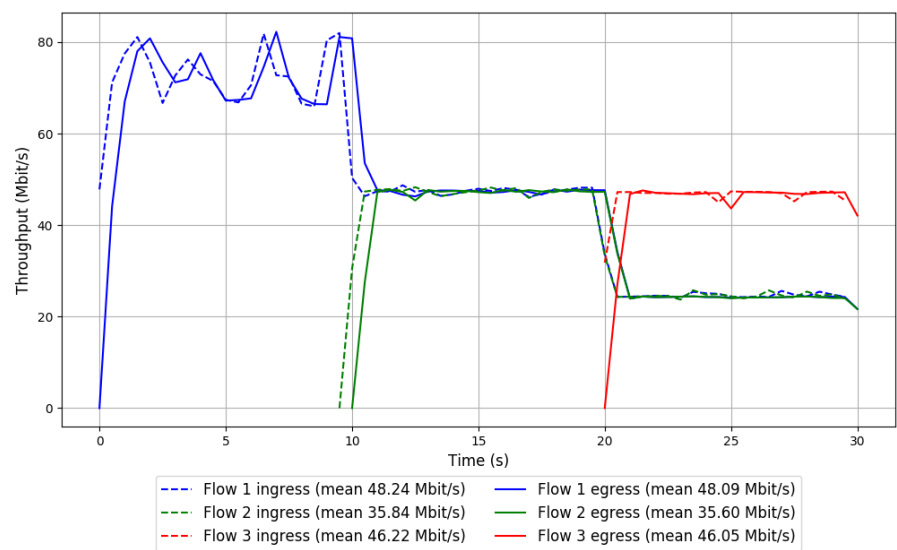
Average throughput: 46.05 Mbit/s

95th percentile per-packet one-way delay: 50.382 ms

Loss rate: 1.03%



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



Run 6: Statistics of TaoVA-100x

Start at: 2018-07-18 11:06:32

End at: 2018-07-18 11:07:02

Local clock offset: 0.208 ms

Remote clock offset: 3.195 ms

# Below is generated by plot.py at 2018-07-18 13:18:51

# Datalink statistics

-- Total of 3 flows:

Average throughput: 86.29 Mbit/s

95th percentile per-packet one-way delay: 67.894 ms

Loss rate: 0.91%

-- Flow 1:

Average throughput: 54.78 Mbit/s

95th percentile per-packet one-way delay: 49.981 ms

Loss rate: 0.48%

-- Flow 2:

Average throughput: 35.39 Mbit/s

95th percentile per-packet one-way delay: 68.116 ms

Loss rate: 1.28%

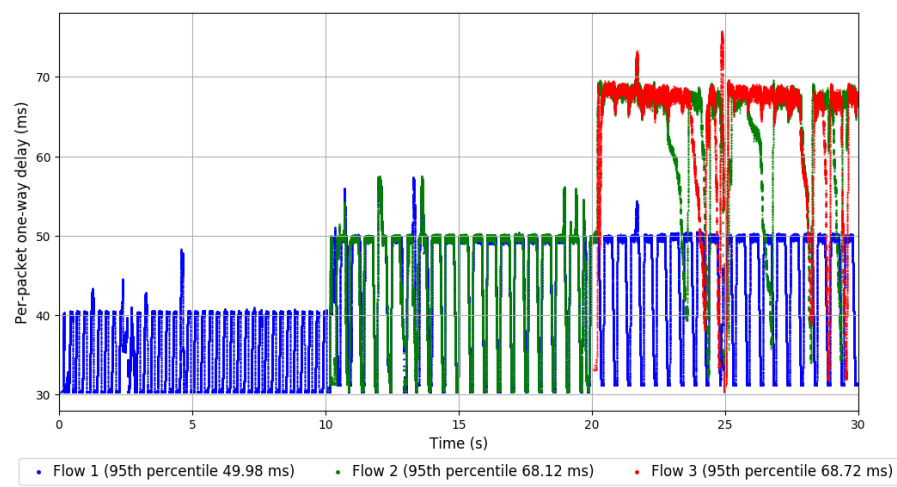
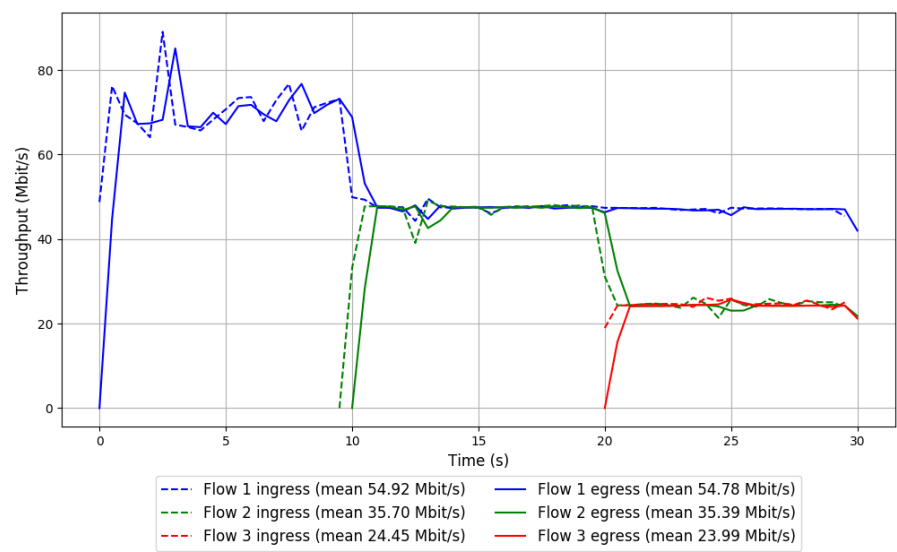
-- Flow 3:

Average throughput: 23.99 Mbit/s

95th percentile per-packet one-way delay: 68.717 ms

Loss rate: 2.74%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-07-18 11:30:07

End at: 2018-07-18 11:30:37

Local clock offset: 0.163 ms

Remote clock offset: 3.416 ms

# Below is generated by plot.py at 2018-07-18 13:18:52

# Datalink statistics

-- Total of 3 flows:

Average throughput: 86.61 Mbit/s

95th percentile per-packet one-way delay: 67.865 ms

Loss rate: 0.84%

-- Flow 1:

Average throughput: 54.97 Mbit/s

95th percentile per-packet one-way delay: 50.281 ms

Loss rate: 0.44%

-- Flow 2:

Average throughput: 35.64 Mbit/s

95th percentile per-packet one-way delay: 68.170 ms

Loss rate: 1.05%

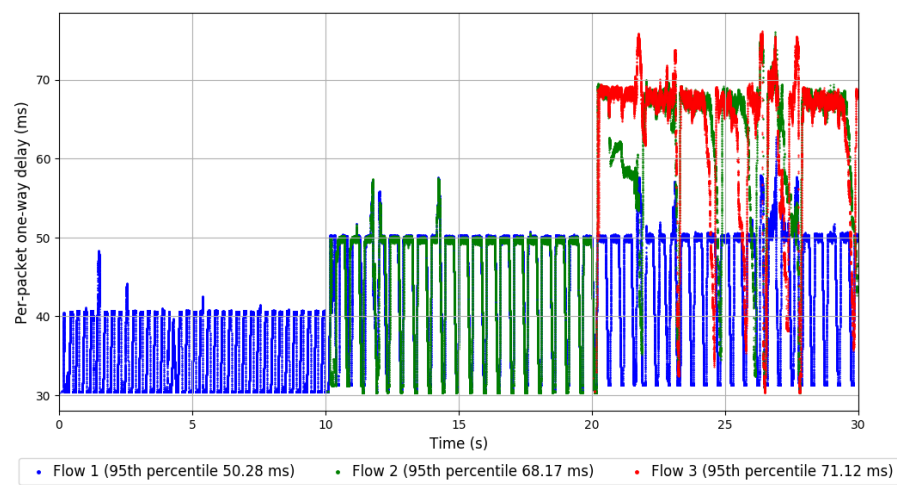
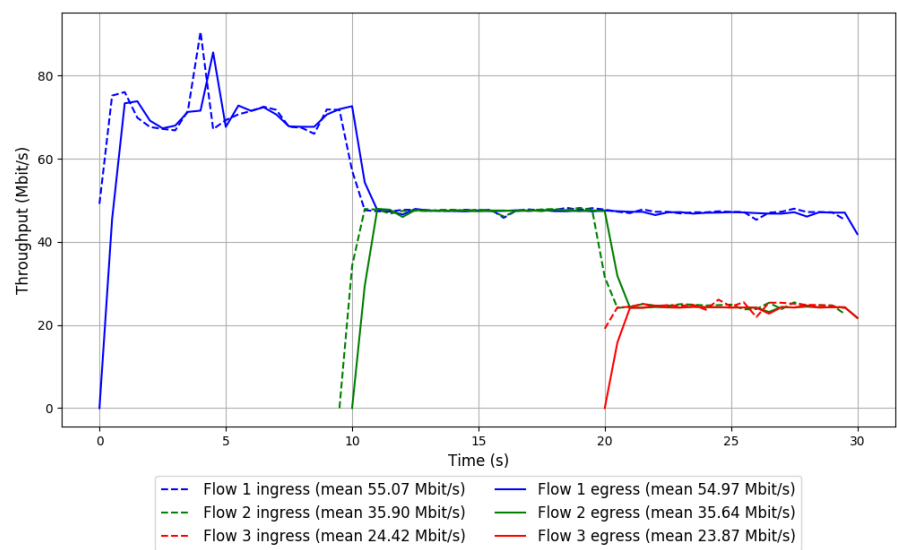
-- Flow 3:

Average throughput: 23.87 Mbit/s

95th percentile per-packet one-way delay: 71.124 ms

Loss rate: 2.91%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-07-18 11:53:32

End at: 2018-07-18 11:54:02

Local clock offset: -1.498 ms

Remote clock offset: 2.666 ms

# Below is generated by plot.py at 2018-07-18 13:19:06

# Datalink statistics

-- Total of 3 flows:

Average throughput: 86.42 Mbit/s

95th percentile per-packet one-way delay: 68.031 ms

Loss rate: 0.99%

-- Flow 1:

Average throughput: 47.33 Mbit/s

95th percentile per-packet one-way delay: 67.781 ms

Loss rate: 0.73%

-- Flow 2:

Average throughput: 46.81 Mbit/s

95th percentile per-packet one-way delay: 52.539 ms

Loss rate: 0.78%

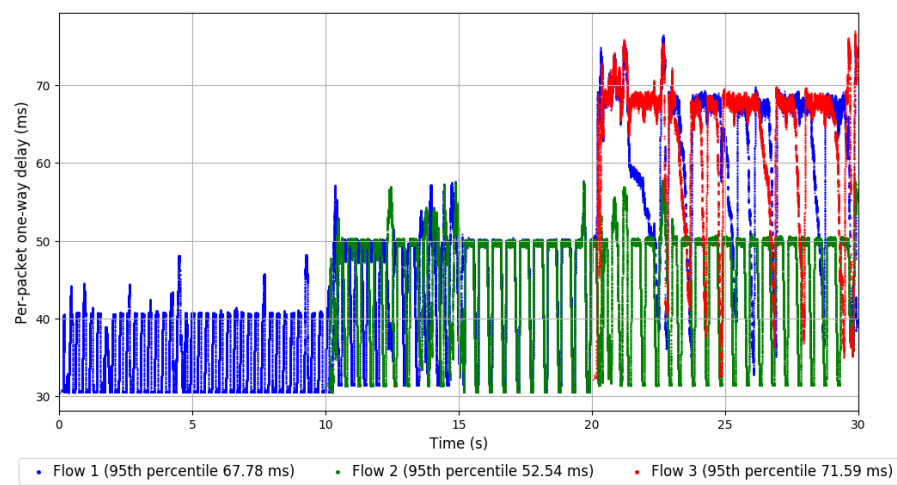
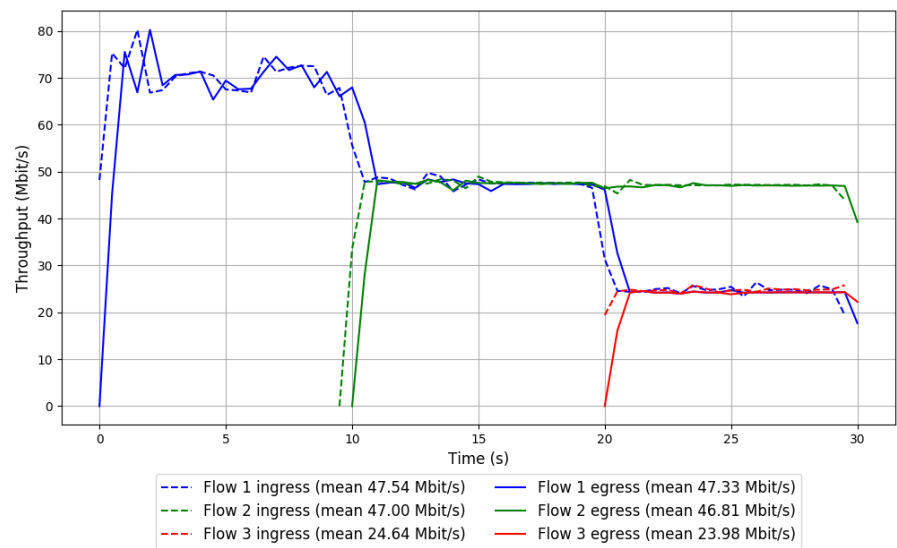
-- Flow 3:

Average throughput: 23.98 Mbit/s

95th percentile per-packet one-way delay: 71.594 ms

Loss rate: 3.34%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-07-18 12:17:09

End at: 2018-07-18 12:17:39

Local clock offset: -3.692 ms

Remote clock offset: 1.531 ms

# Below is generated by plot.py at 2018-07-18 13:20:31

# Datalink statistics

-- Total of 3 flows:

Average throughput: 86.46 Mbit/s

95th percentile per-packet one-way delay: 67.896 ms

Loss rate: 0.85%

-- Flow 1:

Average throughput: 54.75 Mbit/s

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

Loss rate: 0.41%

-- Flow 2:

Average throughput: 35.74 Mbit/s

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

Loss rate: 1.18%

-- Flow 3:

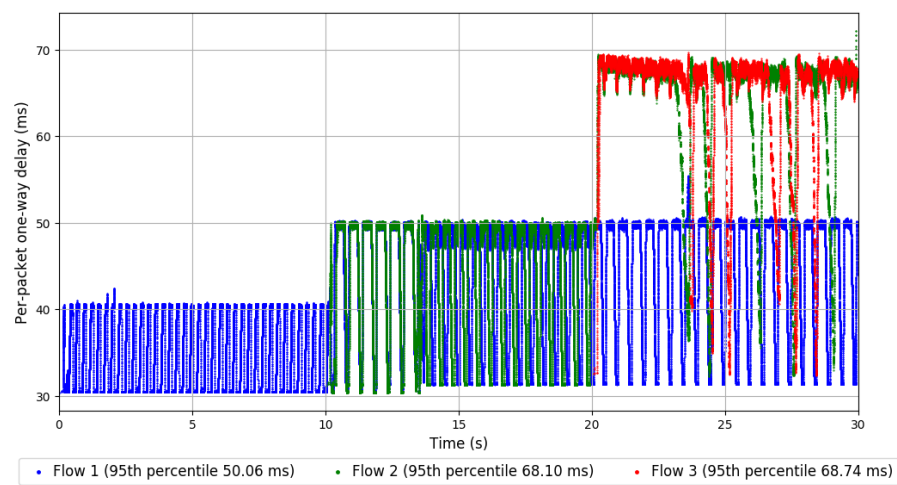
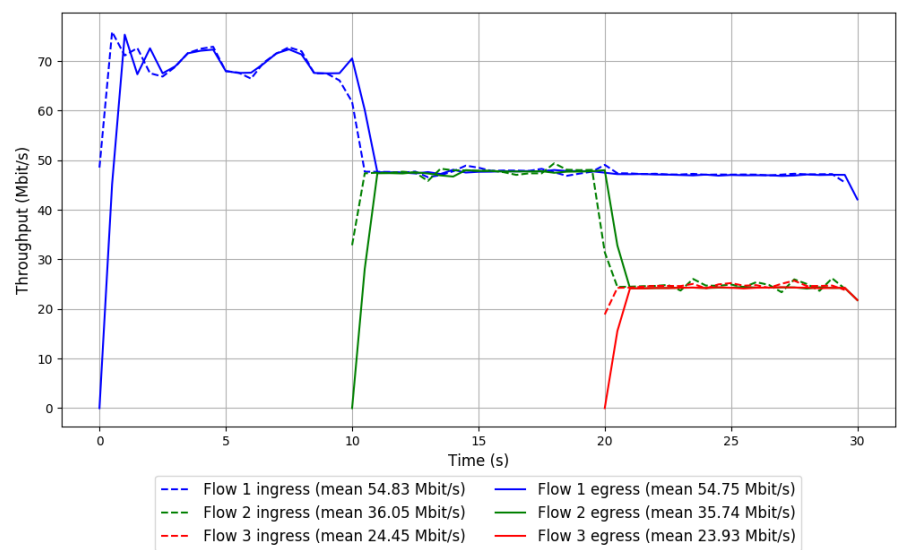
Average throughput: 23.93 Mbit/s

95th percentile per-packet one-way delay: 68.742 ms

Loss rate: 2.81%



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



Run 10: Statistics of TaoVA-100x

Start at: 2018-07-18 12:40:38

End at: 2018-07-18 12:41:08

Local clock offset: -4.745 ms

Remote clock offset: 1.076 ms

# Below is generated by plot.py at 2018-07-18 13:20:34

# Datalink statistics

-- Total of 3 flows:

Average throughput: 86.11 Mbit/s

95th percentile per-packet one-way delay: 67.875 ms

Loss rate: 0.97%

-- Flow 1:

Average throughput: 54.78 Mbit/s

95th percentile per-packet one-way delay: 50.250 ms

Loss rate: 0.61%

-- Flow 2:

Average throughput: 35.37 Mbit/s

95th percentile per-packet one-way delay: 68.289 ms

Loss rate: 1.19%

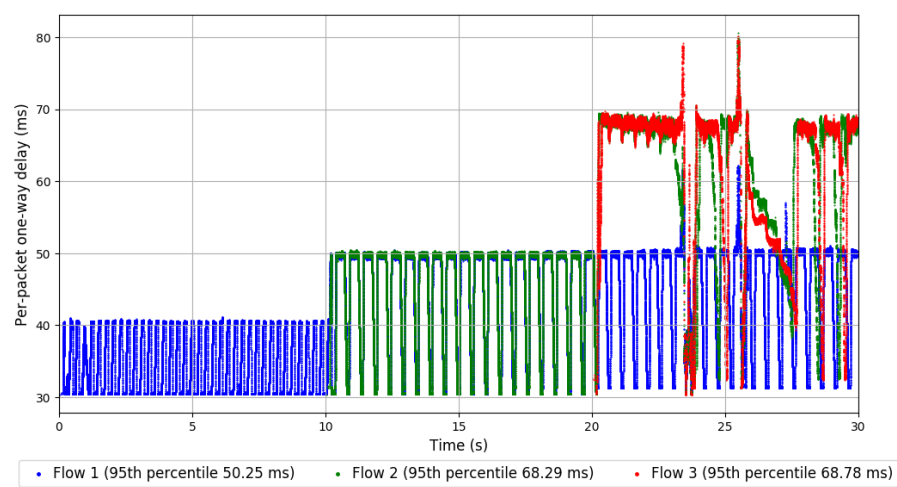
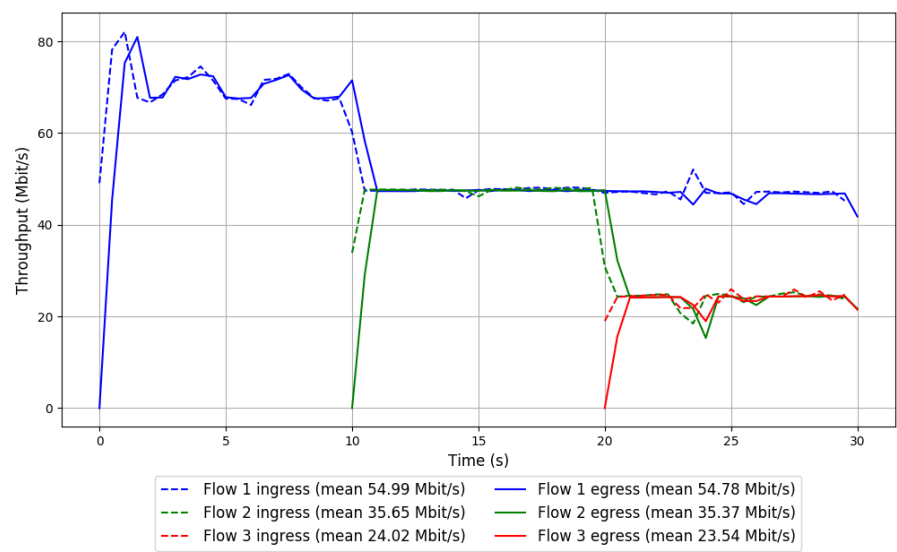
-- Flow 3:

Average throughput: 23.54 Mbit/s

95th percentile per-packet one-way delay: 68.778 ms

Loss rate: 2.83%

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



Run 1: Statistics of TCP Vegas

Start at: 2018-07-18 09:10:38

End at: 2018-07-18 09:11:08

Local clock offset: 0.338 ms

Remote clock offset: 2.795 ms

# Below is generated by plot.py at 2018-07-18 13:20:34

# Datalink statistics

-- Total of 3 flows:

Average throughput: 67.98 Mbit/s

95th percentile per-packet one-way delay: 42.465 ms

Loss rate: 0.14%

-- Flow 1:

Average throughput: 34.50 Mbit/s

95th percentile per-packet one-way delay: 39.454 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 32.34 Mbit/s

95th percentile per-packet one-way delay: 44.732 ms

Loss rate: 0.11%

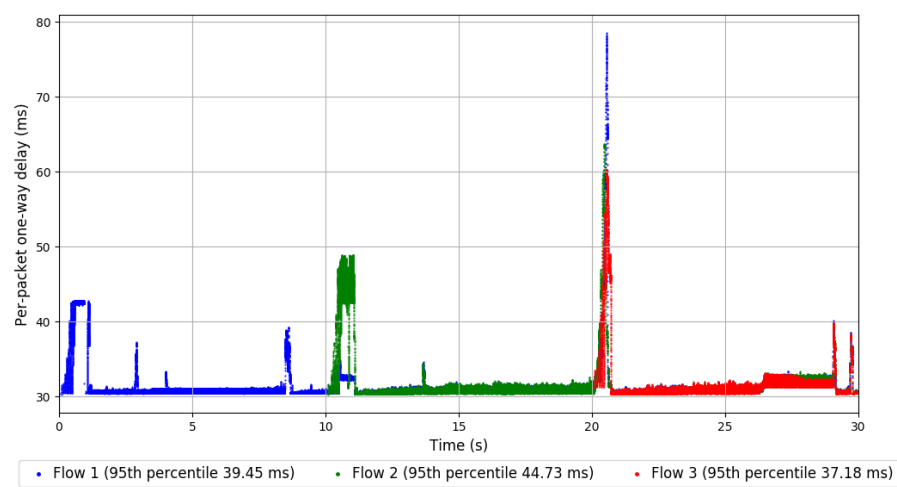
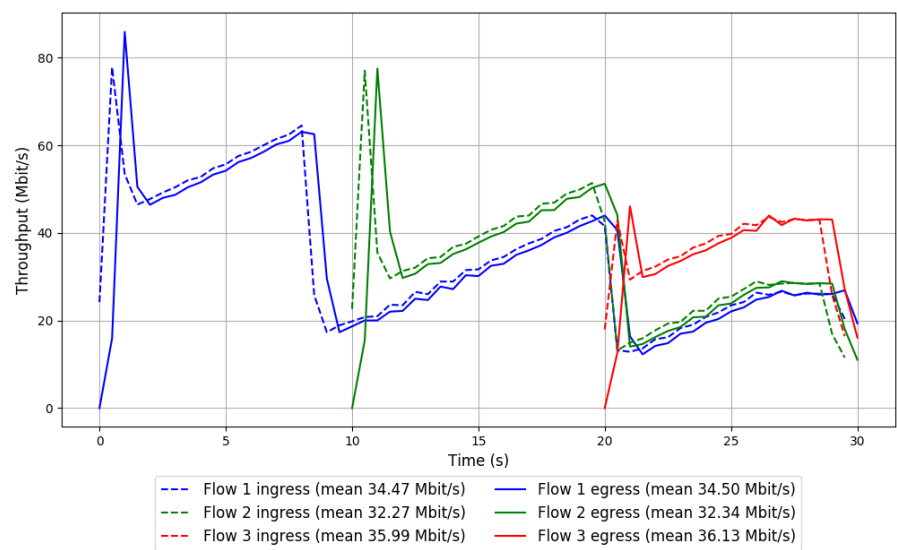
-- Flow 3:

Average throughput: 36.13 Mbit/s

95th percentile per-packet one-way delay: 37.184 ms

Loss rate: 0.24%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-07-18 09:33:38

End at: 2018-07-18 09:34:08

Local clock offset: 0.312 ms

Remote clock offset: 3.45 ms

# Below is generated by plot.py at 2018-07-18 13:20:34

# Datalink statistics

-- Total of 3 flows:

Average throughput: 76.98 Mbit/s

95th percentile per-packet one-way delay: 37.300 ms

Loss rate: 0.23%

-- Flow 1:

Average throughput: 48.42 Mbit/s

95th percentile per-packet one-way delay: 35.078 ms

Loss rate: 0.17%

-- Flow 2:

Average throughput: 32.93 Mbit/s

95th percentile per-packet one-way delay: 37.538 ms

Loss rate: 0.27%

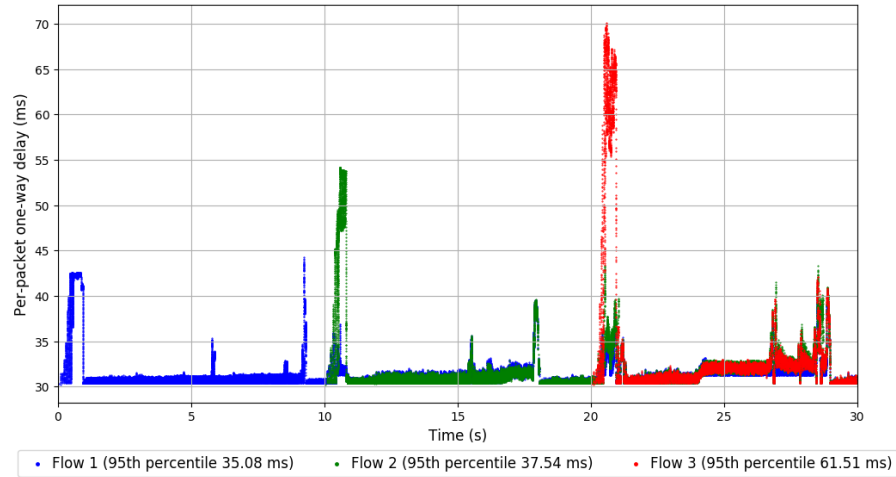
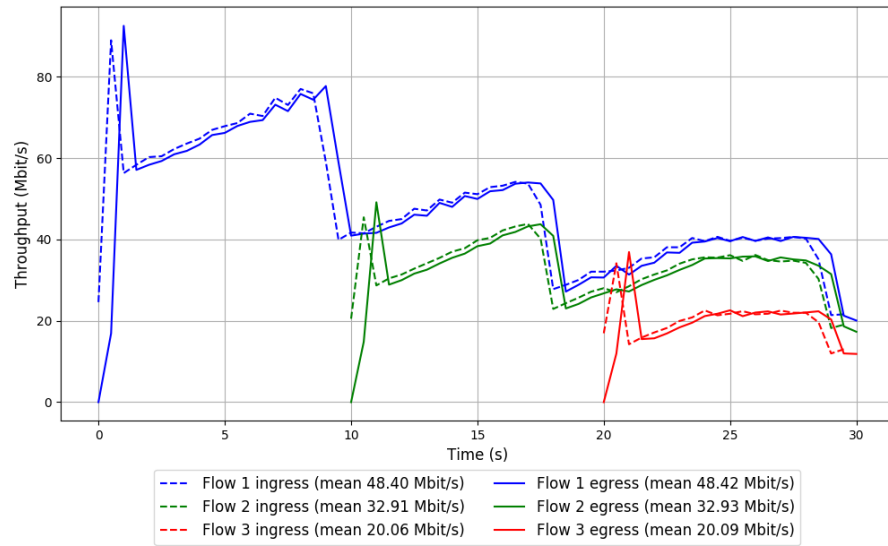
-- Flow 3:

Average throughput: 20.09 Mbit/s

95th percentile per-packet one-way delay: 61.514 ms

Loss rate: 0.53%

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



Run 3: Statistics of TCP Vegas

Start at: 2018-07-18 09:57:08

End at: 2018-07-18 09:57:38

Local clock offset: 0.29 ms

Remote clock offset: 4.178 ms

# Below is generated by plot.py at 2018-07-18 13:20:34

# Datalink statistics

-- Total of 3 flows:

Average throughput: 65.16 Mbit/s

95th percentile per-packet one-way delay: 38.318 ms

Loss rate: 0.40%

-- Flow 1:

Average throughput: 41.07 Mbit/s

95th percentile per-packet one-way delay: 38.350 ms

Loss rate: 0.23%

-- Flow 2:

Average throughput: 22.79 Mbit/s

95th percentile per-packet one-way delay: 33.900 ms

Loss rate: 0.53%

-- Flow 3:

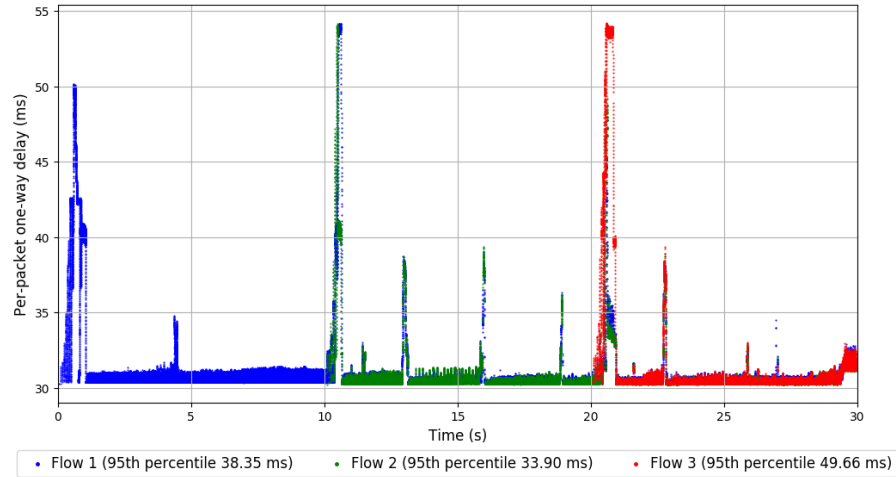
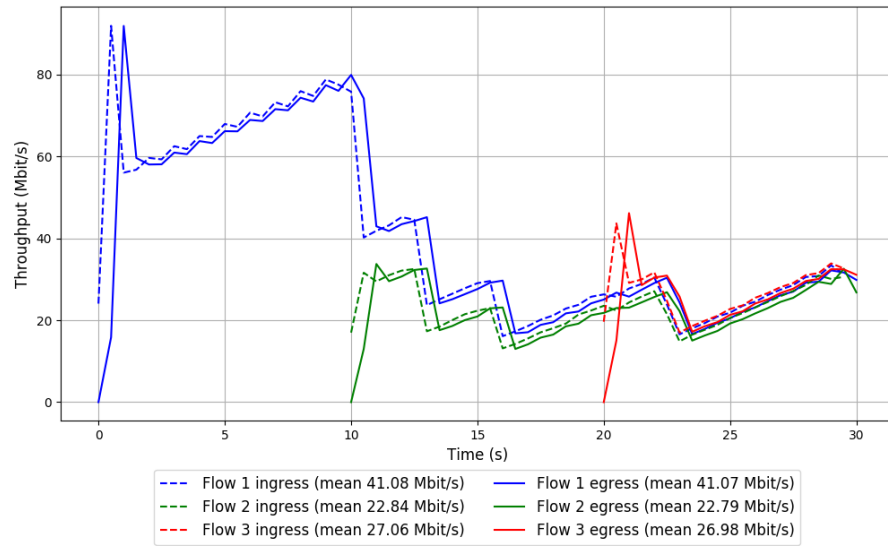
Average throughput: 26.98 Mbit/s

95th percentile per-packet one-way delay: 49.665 ms

Loss rate: 0.98%



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



Run 4: Statistics of TCP Vegas

Start at: 2018-07-18 10:21:01

End at: 2018-07-18 10:21:31

Local clock offset: 0.257 ms

Remote clock offset: 3.557 ms

# Below is generated by plot.py at 2018-07-18 13:20:34

# Datalink statistics

-- Total of 3 flows:

Average throughput: 59.03 Mbit/s

95th percentile per-packet one-way delay: 42.169 ms

Loss rate: 0.33%

-- Flow 1:

Average throughput: 37.08 Mbit/s

95th percentile per-packet one-way delay: 38.331 ms

Loss rate: 0.21%

-- Flow 2:

Average throughput: 26.27 Mbit/s

95th percentile per-packet one-way delay: 51.300 ms

Loss rate: 0.45%

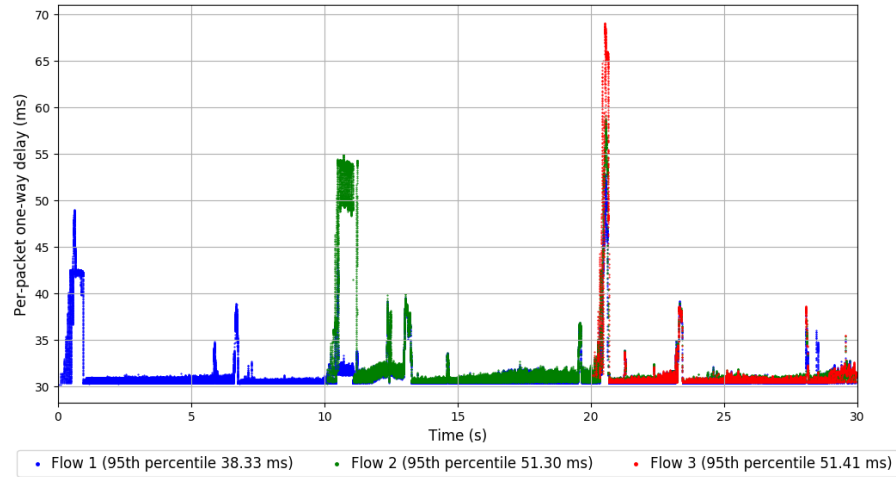
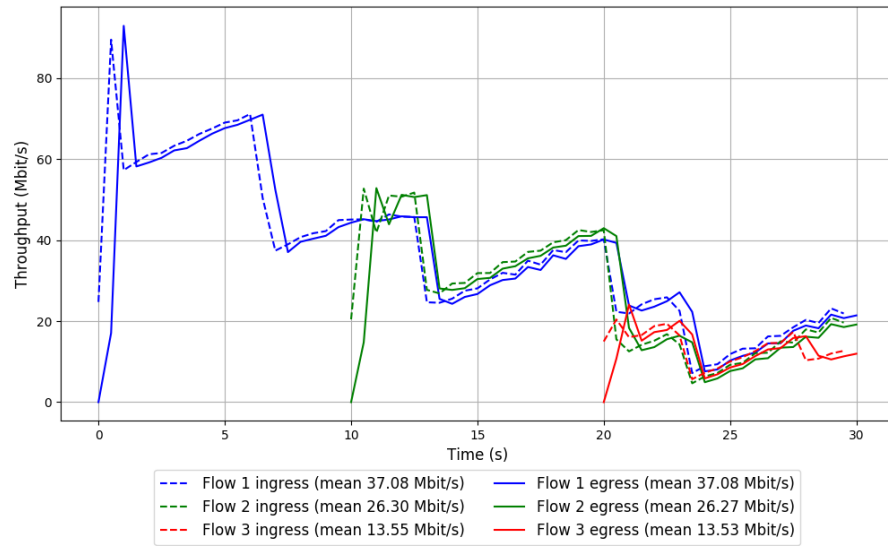
-- Flow 3:

Average throughput: 13.53 Mbit/s

95th percentile per-packet one-way delay: 51.412 ms

Loss rate: 0.81%

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



Run 5: Statistics of TCP Vegas

Start at: 2018-07-18 10:44:24

End at: 2018-07-18 10:44:54

Local clock offset: 0.14 ms

Remote clock offset: 2.872 ms

# Below is generated by plot.py at 2018-07-18 13:20:34

# Datalink statistics

-- Total of 3 flows:

Average throughput: 60.66 Mbit/s

95th percentile per-packet one-way delay: 42.367 ms

Loss rate: 0.36%

-- Flow 1:

Average throughput: 31.84 Mbit/s

95th percentile per-packet one-way delay: 40.089 ms

Loss rate: 0.24%

-- Flow 2:

Average throughput: 28.37 Mbit/s

95th percentile per-packet one-way delay: 45.484 ms

Loss rate: 0.37%

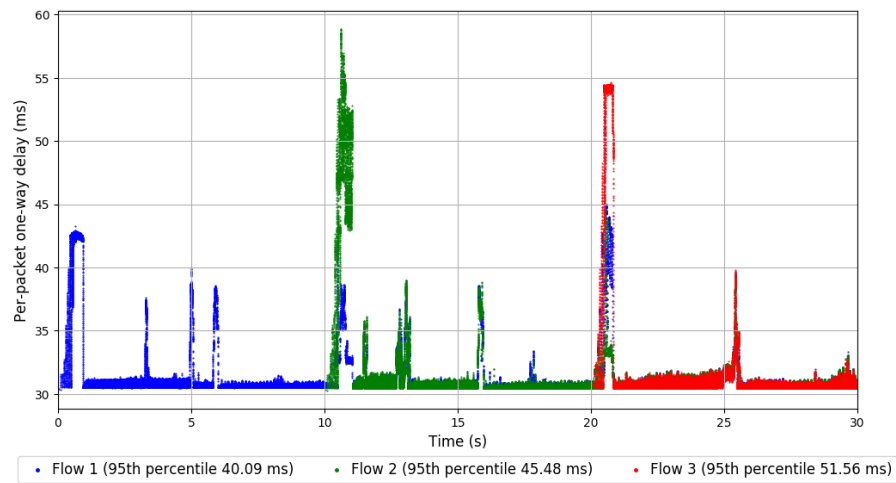
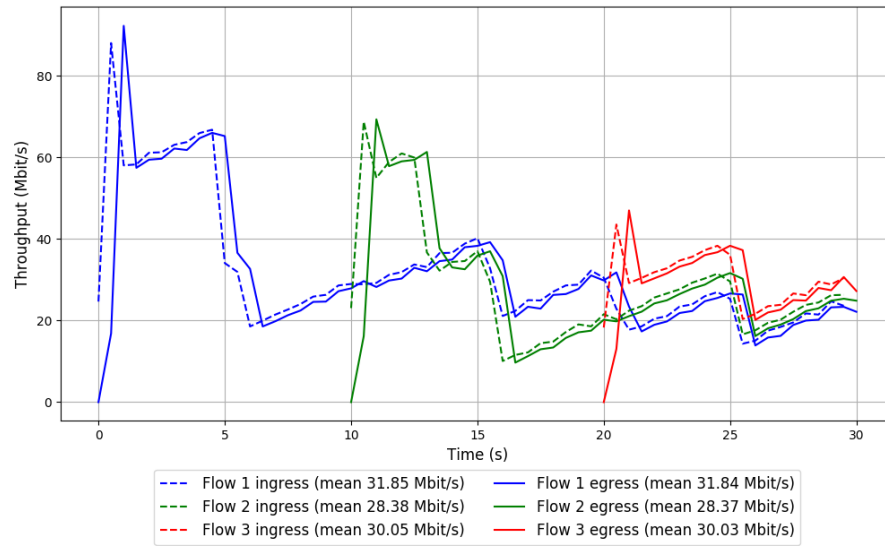
-- Flow 3:

Average throughput: 30.03 Mbit/s

95th percentile per-packet one-way delay: 51.560 ms

Loss rate: 0.73%

# Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-07-18 11:08:03

End at: 2018-07-18 11:08:33

Local clock offset: 0.211 ms

Remote clock offset: 3.166 ms

# Below is generated by plot.py at 2018-07-18 13:20:34

# Datalink statistics

-- Total of 3 flows:

Average throughput: 64.24 Mbit/s

95th percentile per-packet one-way delay: 37.847 ms

Loss rate: 0.26%

-- Flow 1:

Average throughput: 35.74 Mbit/s

95th percentile per-packet one-way delay: 38.144 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 26.60 Mbit/s

95th percentile per-packet one-way delay: 38.020 ms

Loss rate: 0.31%

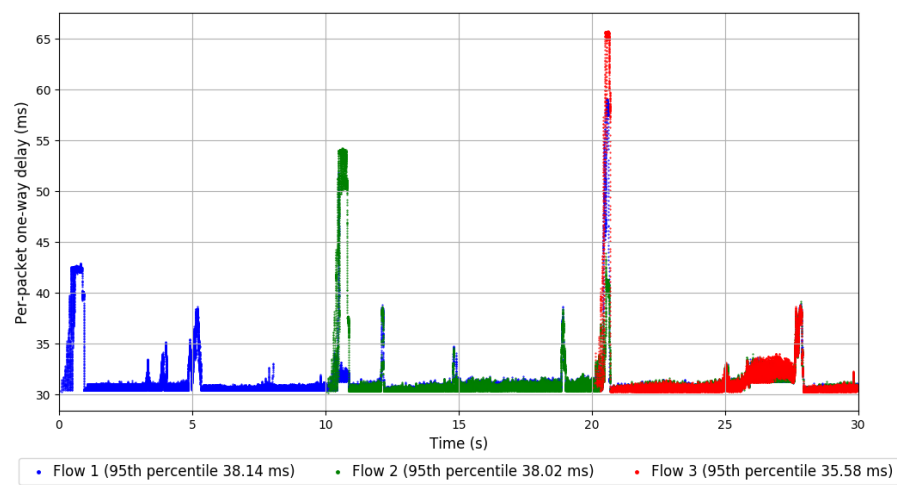
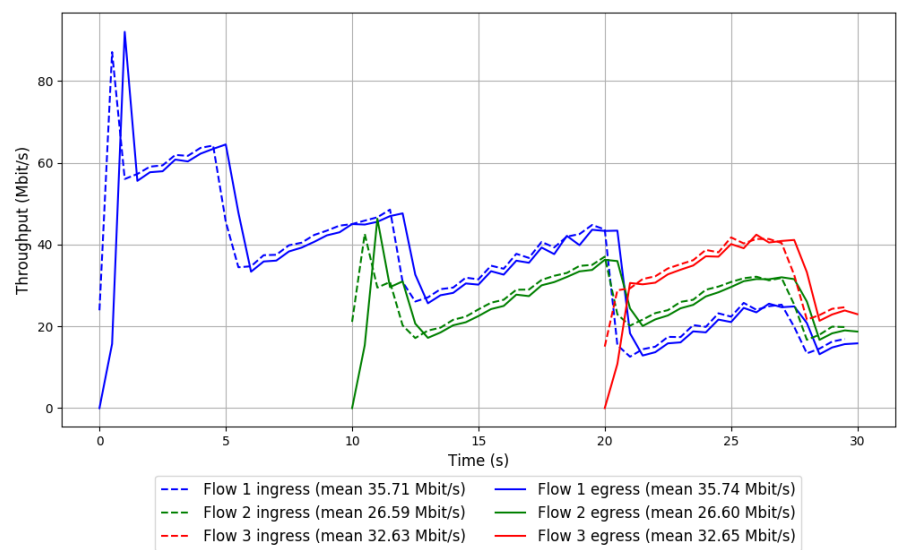
-- Flow 3:

Average throughput: 32.65 Mbit/s

95th percentile per-packet one-way delay: 35.578 ms

Loss rate: 0.59%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-07-18 11:31:35

End at: 2018-07-18 11:32:05

Local clock offset: 0.169 ms

Remote clock offset: 3.407 ms

# Below is generated by plot.py at 2018-07-18 13:20:34

# Datalink statistics

-- Total of 3 flows:

Average throughput: 64.22 Mbit/s

95th percentile per-packet one-way delay: 41.551 ms

Loss rate: 0.38%

-- Flow 1:

Average throughput: 35.42 Mbit/s

95th percentile per-packet one-way delay: 37.148 ms

Loss rate: 0.23%

-- Flow 2:

Average throughput: 30.18 Mbit/s

95th percentile per-packet one-way delay: 44.720 ms

Loss rate: 0.41%

-- Flow 3:

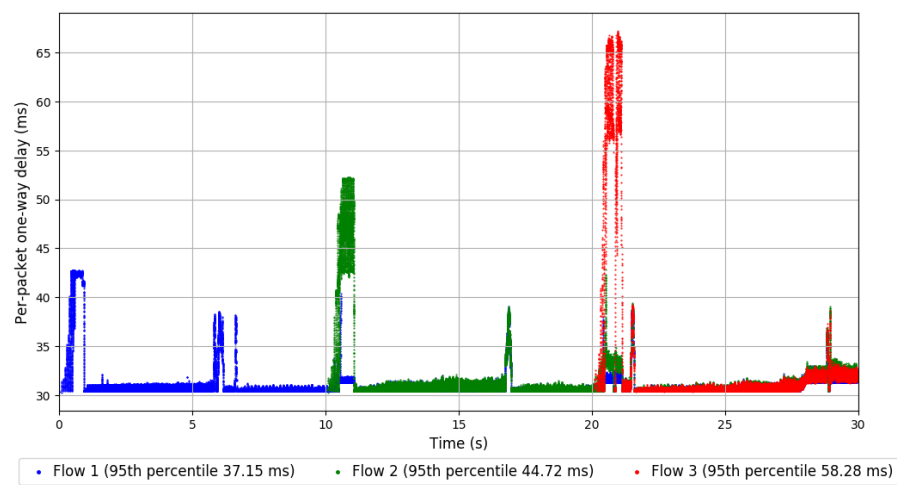
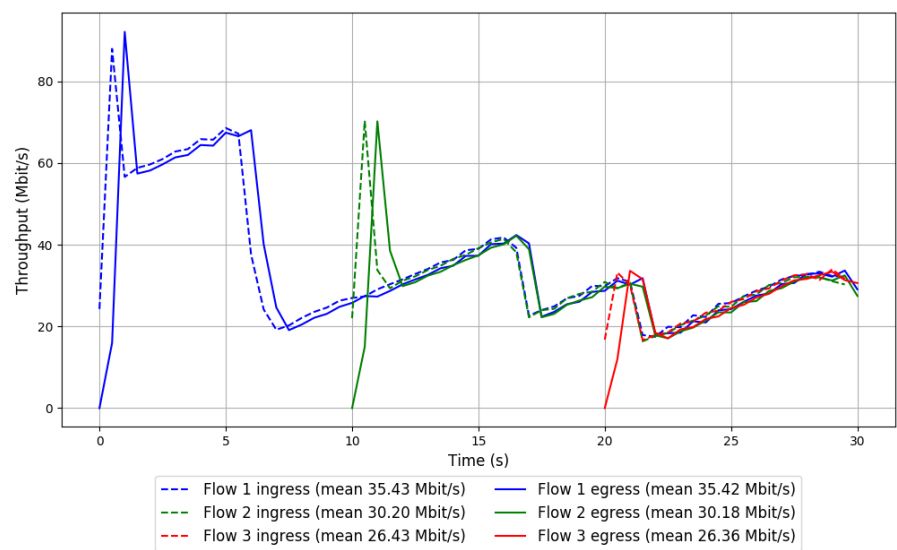
Average throughput: 26.36 Mbit/s

95th percentile per-packet one-way delay: 58.282 ms

Loss rate: 0.92%



Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-07-18 11:55:07

End at: 2018-07-18 11:55:37

Local clock offset: -1.807 ms

Remote clock offset: 2.549 ms

# Below is generated by plot.py at 2018-07-18 13:20:34

# Datalink statistics

-- Total of 3 flows:

Average throughput: 58.21 Mbit/s

95th percentile per-packet one-way delay: 41.755 ms

Loss rate: 0.23%

-- Flow 1:

Average throughput: 36.98 Mbit/s

95th percentile per-packet one-way delay: 40.304 ms

Loss rate: 0.18%

-- Flow 2:

Average throughput: 25.25 Mbit/s

95th percentile per-packet one-way delay: 37.745 ms

Loss rate: 0.27%

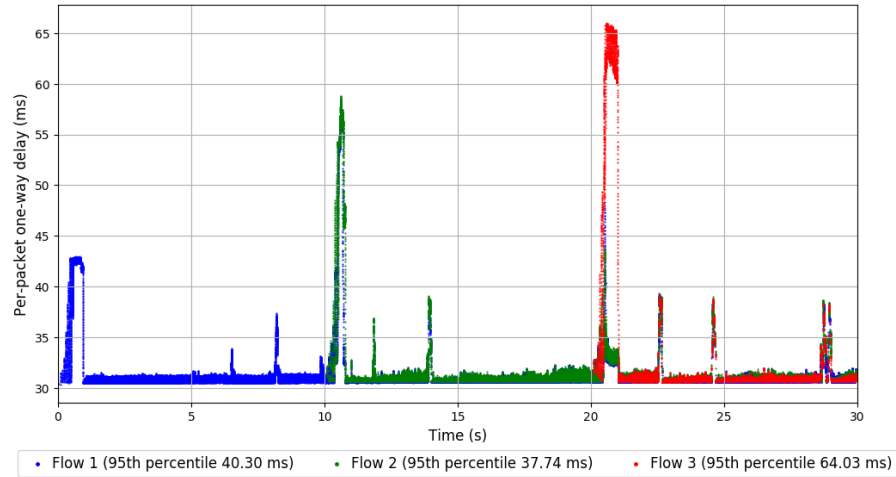
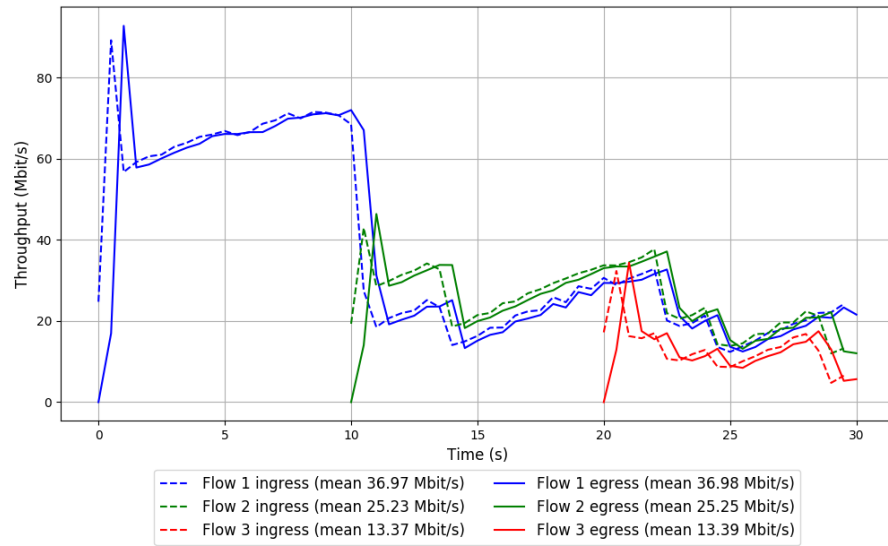
-- Flow 3:

Average throughput: 13.39 Mbit/s

95th percentile per-packet one-way delay: 64.031 ms

Loss rate: 0.53%

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



Run 9: Statistics of TCP Vegas

Start at: 2018-07-18 12:18:35

End at: 2018-07-18 12:19:05

Local clock offset: -3.856 ms

Remote clock offset: 1.608 ms

# Below is generated by plot.py at 2018-07-18 13:20:34

# Datalink statistics

-- Total of 3 flows:

Average throughput: 83.65 Mbit/s

95th percentile per-packet one-way delay: 36.038 ms

Loss rate: 0.27%

-- Flow 1:

Average throughput: 47.27 Mbit/s

95th percentile per-packet one-way delay: 39.195 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 28.47 Mbit/s

95th percentile per-packet one-way delay: 33.857 ms

Loss rate: 0.29%

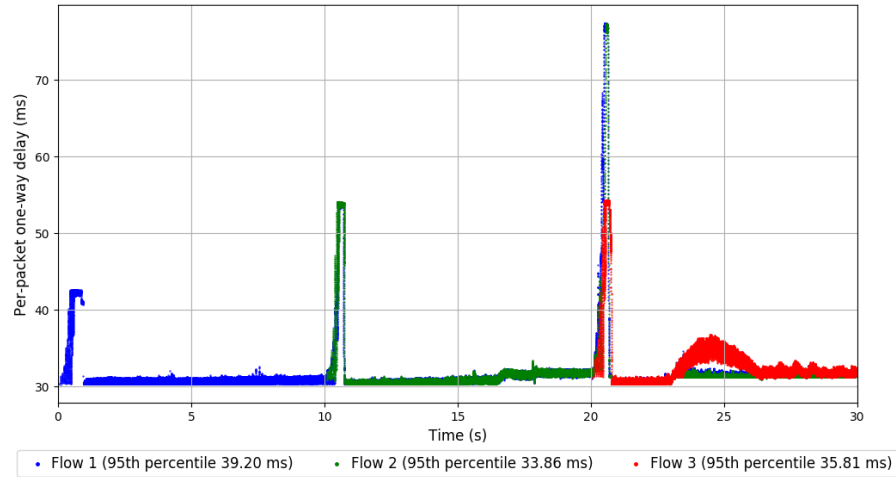
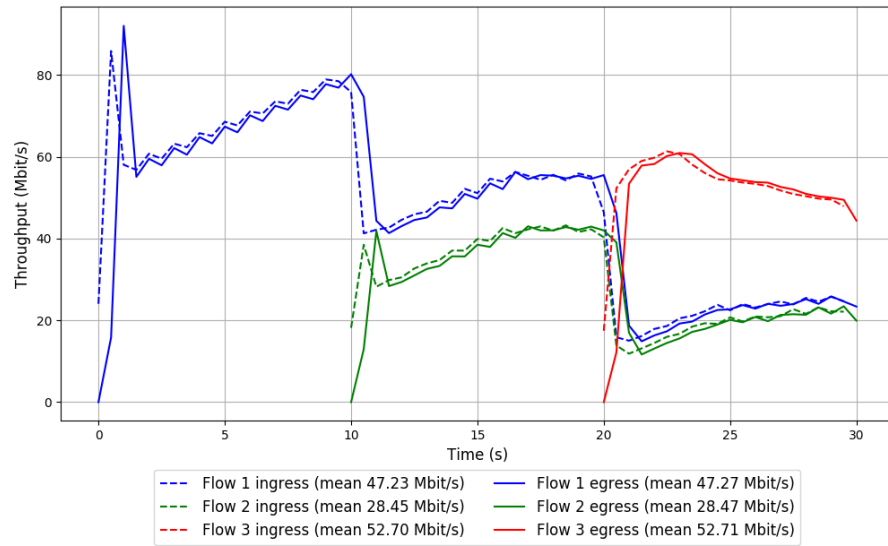
-- Flow 3:

Average throughput: 52.71 Mbit/s

95th percentile per-packet one-way delay: 35.813 ms

Loss rate: 0.64%

# Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-07-18 12:42:02

End at: 2018-07-18 12:42:32

Local clock offset: -4.885 ms

Remote clock offset: 1.188 ms

# Below is generated by plot.py at 2018-07-18 13:20:34

# Datalink statistics

-- Total of 3 flows:

Average throughput: 75.98 Mbit/s

95th percentile per-packet one-way delay: 32.742 ms

Loss rate: 0.29%

-- Flow 1:

Average throughput: 40.50 Mbit/s

95th percentile per-packet one-way delay: 38.984 ms

Loss rate: 0.16%

-- Flow 2:

Average throughput: 36.51 Mbit/s

95th percentile per-packet one-way delay: 32.416 ms

Loss rate: 0.32%

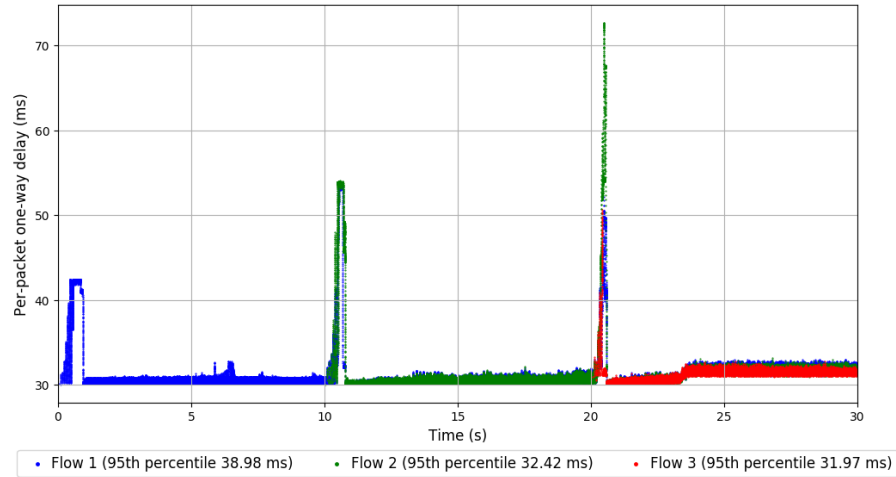
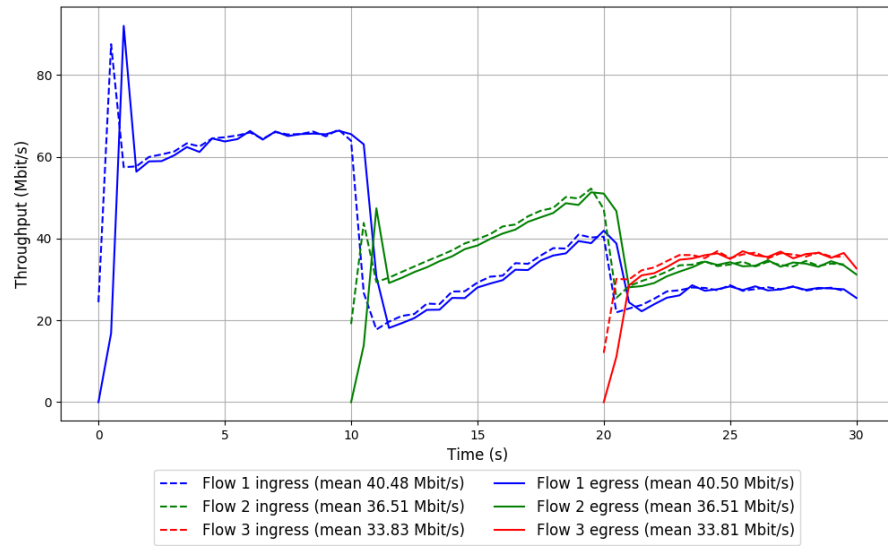
-- Flow 3:

Average throughput: 33.81 Mbit/s

95th percentile per-packet one-way delay: 31.974 ms

Loss rate: 0.71%

# Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-07-18 09:07:53

End at: 2018-07-18 09:08:23

Local clock offset: 0.24 ms

Remote clock offset: 2.616 ms

# Below is generated by plot.py at 2018-07-18 13:20:44

# Datalink statistics

-- Total of 3 flows:

Average throughput: 88.64 Mbit/s

95th percentile per-packet one-way delay: 64.811 ms

Loss rate: 0.48%

-- Flow 1:

Average throughput: 53.24 Mbit/s

95th percentile per-packet one-way delay: 64.135 ms

Loss rate: 0.23%

-- Flow 2:

Average throughput: 38.07 Mbit/s

95th percentile per-packet one-way delay: 65.032 ms

Loss rate: 0.62%

-- Flow 3:

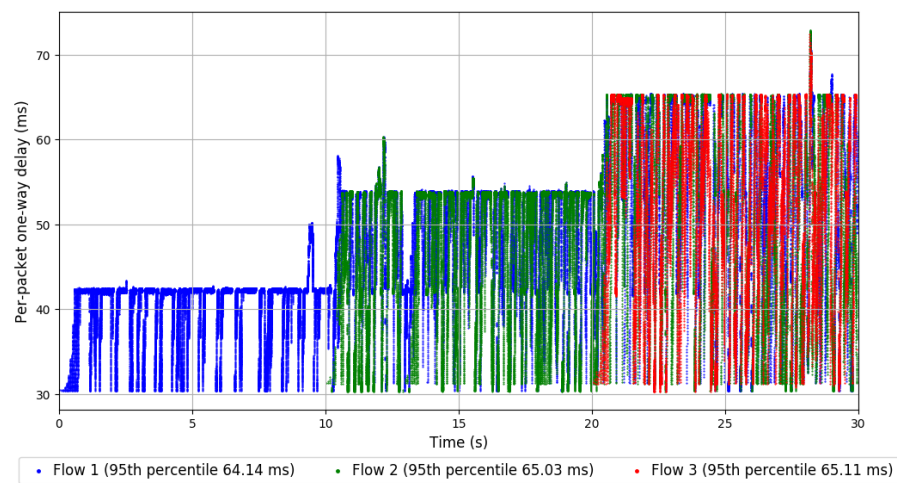
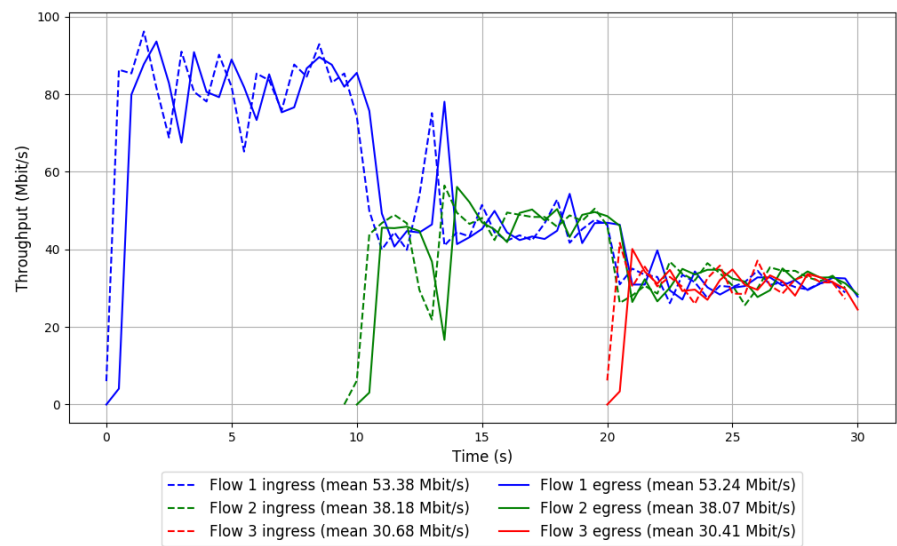
Average throughput: 30.41 Mbit/s

95th percentile per-packet one-way delay: 65.106 ms

Loss rate: 1.45%



Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-07-18 09:30:53

End at: 2018-07-18 09:31:23

Local clock offset: 0.291 ms

Remote clock offset: 3.377 ms

# Below is generated by plot.py at 2018-07-18 13:21:00

# Datalink statistics

-- Total of 3 flows:

Average throughput: 89.36 Mbit/s

95th percentile per-packet one-way delay: 66.191 ms

Loss rate: 0.66%

-- Flow 1:

Average throughput: 51.57 Mbit/s

95th percentile per-packet one-way delay: 63.667 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 34.94 Mbit/s

95th percentile per-packet one-way delay: 73.757 ms

Loss rate: 0.65%

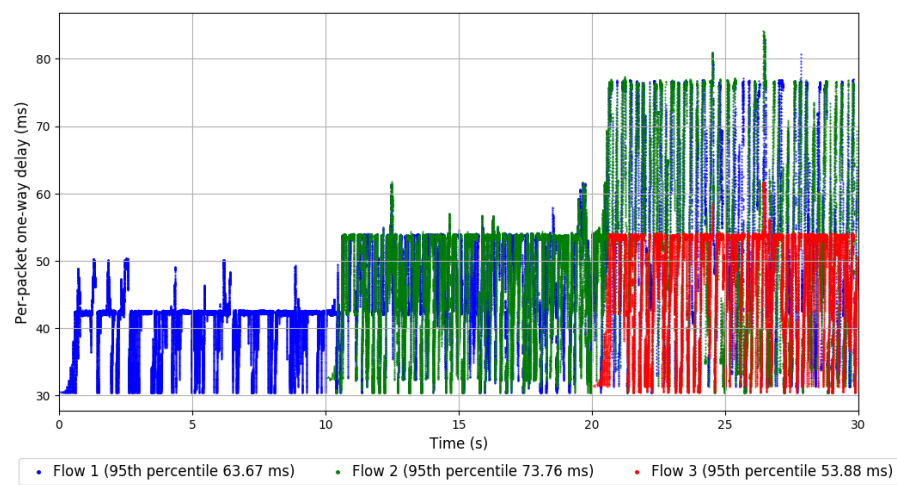
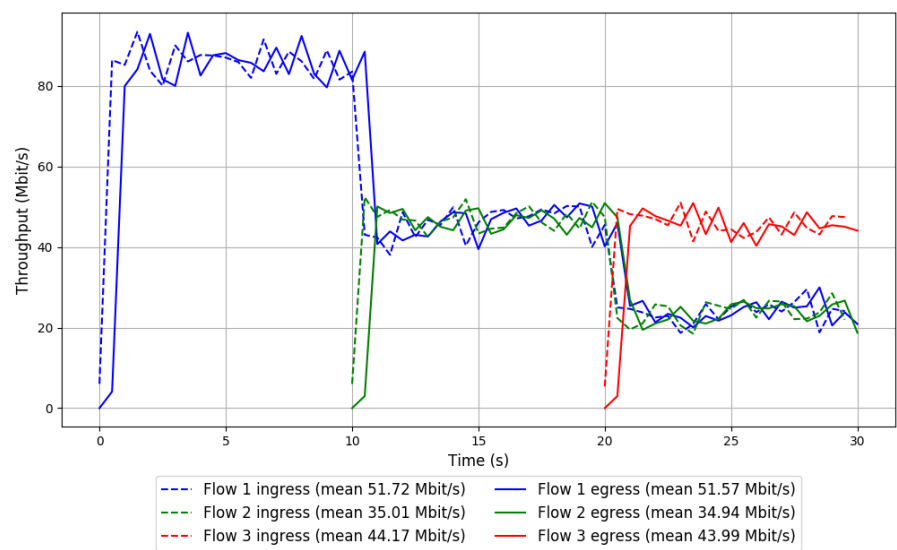
-- Flow 3:

Average throughput: 43.99 Mbit/s

95th percentile per-packet one-way delay: 53.875 ms

Loss rate: 1.19%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-07-18 09:54:17

End at: 2018-07-18 09:54:47

Local clock offset: 0.317 ms

Remote clock offset: 4.101 ms

# Below is generated by plot.py at 2018-07-18 13:21:18

# Datalink statistics

-- Total of 3 flows:

Average throughput: 88.73 Mbit/s

95th percentile per-packet one-way delay: 64.594 ms

Loss rate: 0.56%

-- Flow 1:

Average throughput: 51.07 Mbit/s

95th percentile per-packet one-way delay: 62.651 ms

Loss rate: 0.30%

-- Flow 2:

Average throughput: 34.22 Mbit/s

95th percentile per-packet one-way delay: 72.846 ms

Loss rate: 0.72%

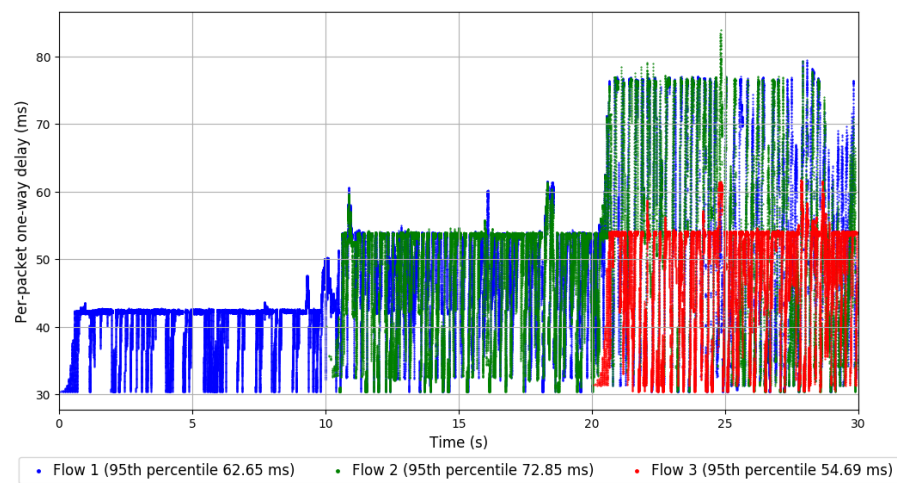
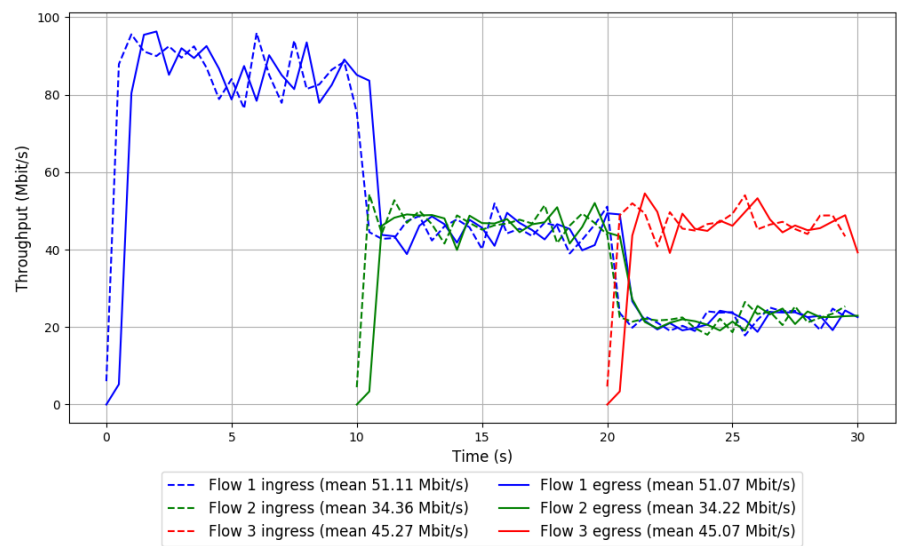
-- Flow 3:

Average throughput: 45.07 Mbit/s

95th percentile per-packet one-way delay: 54.688 ms

Loss rate: 1.22%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-07-18 10:17:58

End at: 2018-07-18 10:18:28

Local clock offset: 0.331 ms

Remote clock offset: 3.536 ms

# Below is generated by plot.py at 2018-07-18 13:21:18

# Datalink statistics

-- Total of 3 flows:

Average throughput: 86.37 Mbit/s

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

Loss rate: 0.82%

-- Flow 1:

Average throughput: 50.25 Mbit/s

95th percentile per-packet one-way delay: 61.213 ms

Loss rate: 0.59%

-- Flow 2:

Average throughput: 44.46 Mbit/s

95th percentile per-packet one-way delay: 57.183 ms

Loss rate: 0.98%

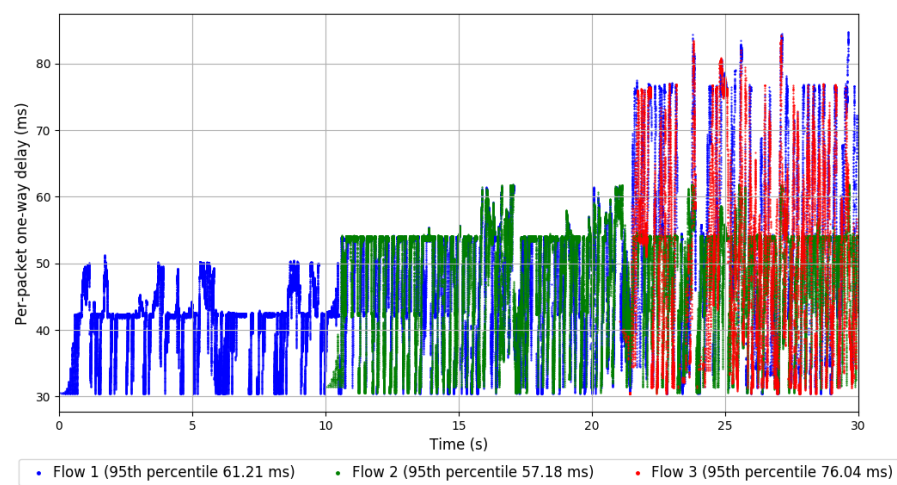
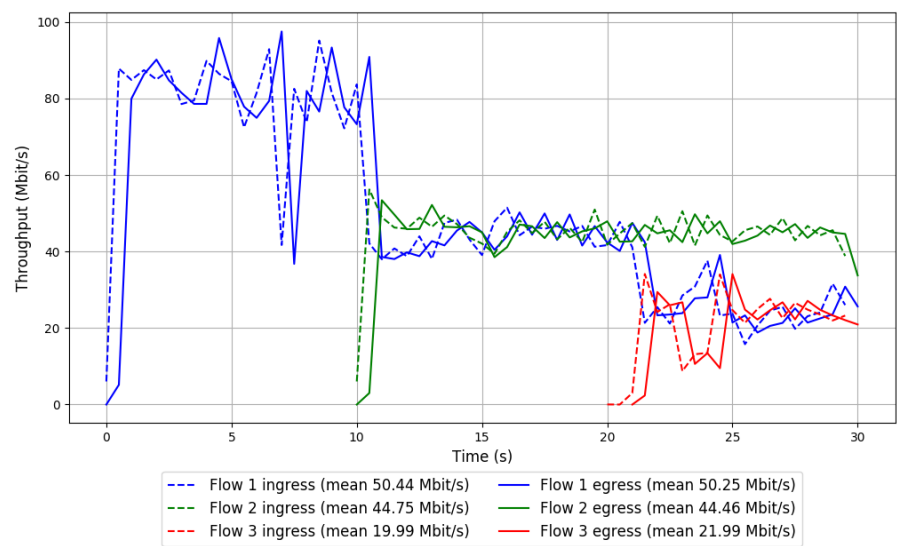
-- Flow 3:

Average throughput: 21.99 Mbit/s

95th percentile per-packet one-way delay: 76.044 ms

Loss rate: 1.86%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-07-18 10:41:30

End at: 2018-07-18 10:42:00

Local clock offset: 0.142 ms

Remote clock offset: 2.932 ms

# Below is generated by plot.py at 2018-07-18 13:21:29

# Datalink statistics

-- Total of 3 flows:

Average throughput: 90.09 Mbit/s

95th percentile per-packet one-way delay: 64.881 ms

Loss rate: 0.60%

-- Flow 1:

Average throughput: 53.75 Mbit/s

95th percentile per-packet one-way delay: 64.484 ms

Loss rate: 0.43%

-- Flow 2:

Average throughput: 39.18 Mbit/s

95th percentile per-packet one-way delay: 65.034 ms

Loss rate: 0.68%

-- Flow 3:

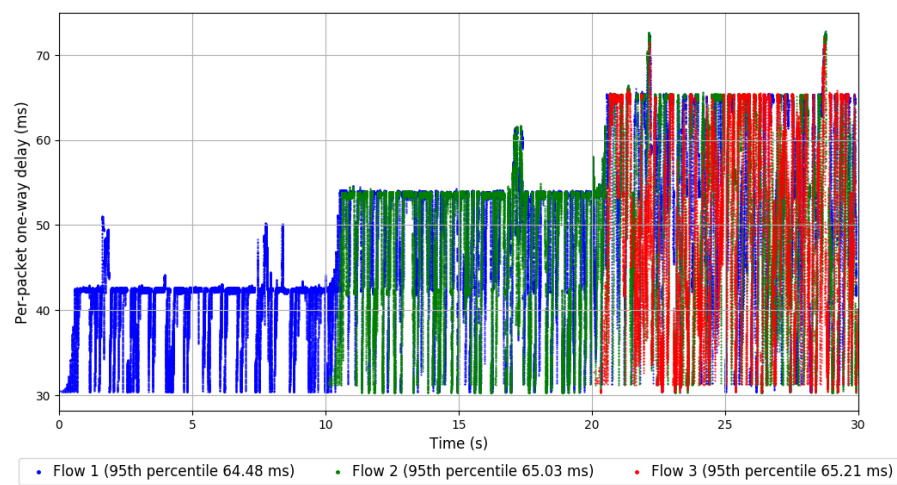
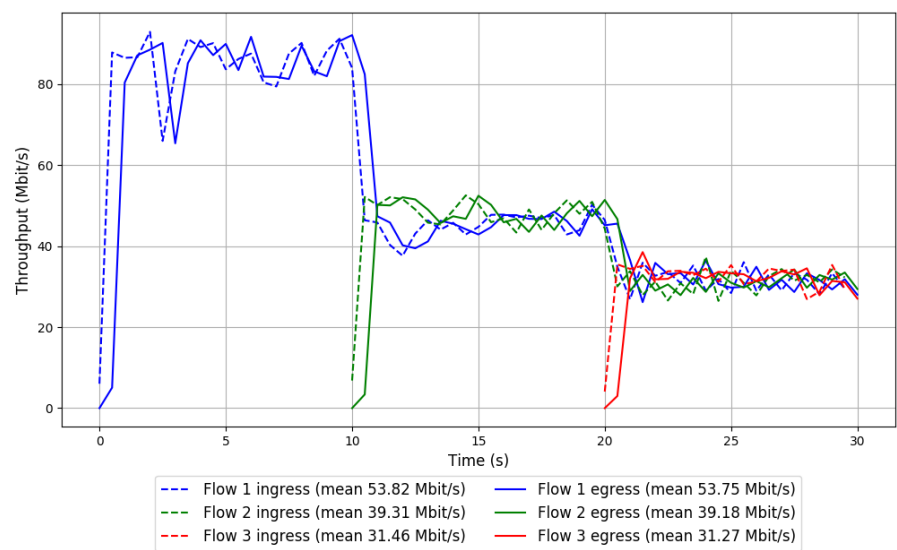
Average throughput: 31.27 Mbit/s

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

Loss rate: 1.25%



Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-07-18 11:05:02

End at: 2018-07-18 11:05:32

Local clock offset: 0.21 ms

Remote clock offset: 3.181 ms

# Below is generated by plot.py at 2018-07-18 13:21:32

# Datalink statistics

-- Total of 3 flows:

Average throughput: 87.29 Mbit/s

95th percentile per-packet one-way delay: 65.017 ms

Loss rate: 0.59%

-- Flow 1:

Average throughput: 51.93 Mbit/s

95th percentile per-packet one-way delay: 64.749 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 38.05 Mbit/s

95th percentile per-packet one-way delay: 65.233 ms

Loss rate: 0.76%

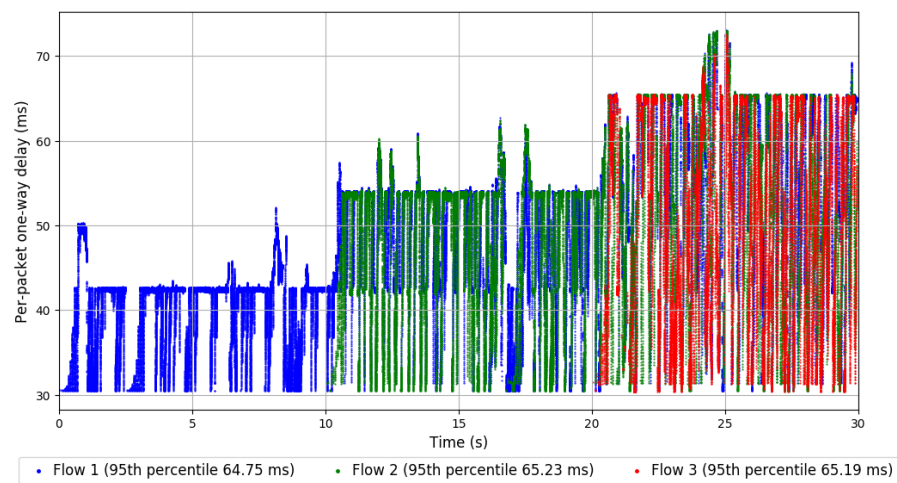
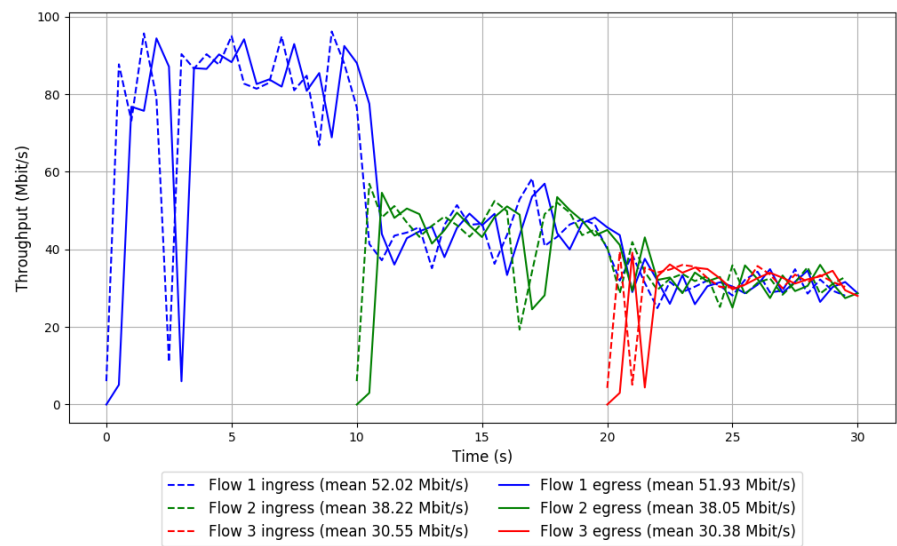
-- Flow 3:

Average throughput: 30.38 Mbit/s

95th percentile per-packet one-way delay: 65.190 ms

Loss rate: 1.20%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-07-18 11:28:39

End at: 2018-07-18 11:29:09

Local clock offset: 0.085 ms

Remote clock offset: 3.39 ms

# Below is generated by plot.py at 2018-07-18 13:21:36

# Datalink statistics

-- Total of 3 flows:

Average throughput: 88.71 Mbit/s

95th percentile per-packet one-way delay: 68.022 ms

Loss rate: 0.53%

-- Flow 1:

Average throughput: 51.21 Mbit/s

95th percentile per-packet one-way delay: 69.630 ms

Loss rate: 0.32%

-- Flow 2:

Average throughput: 44.41 Mbit/s

95th percentile per-packet one-way delay: 55.772 ms

Loss rate: 0.66%

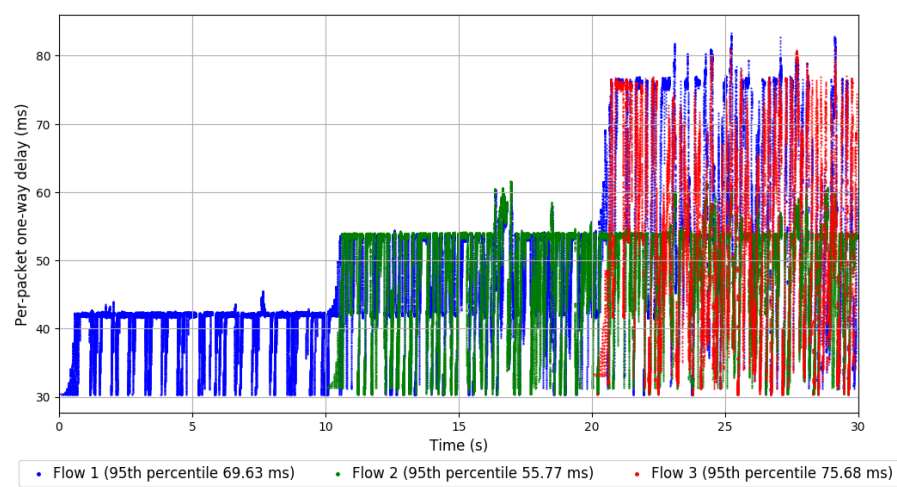
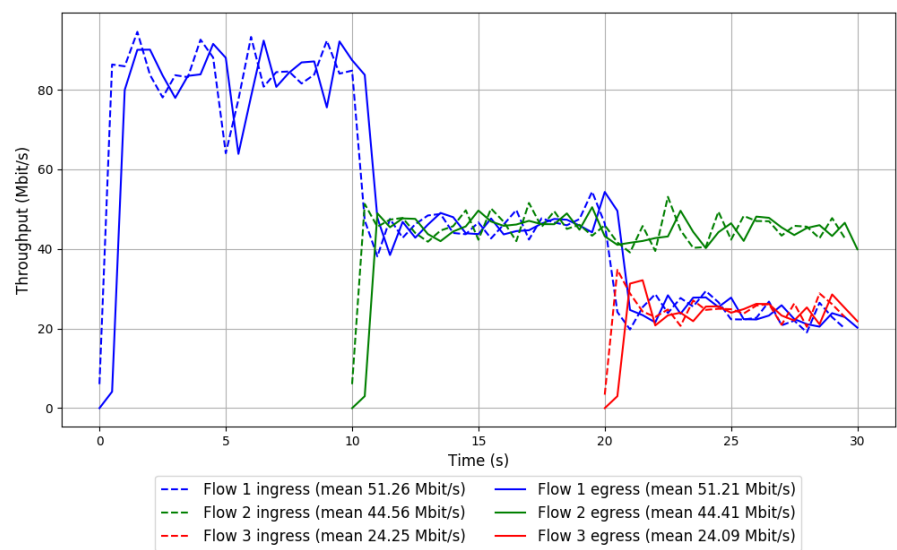
-- Flow 3:

Average throughput: 24.09 Mbit/s

95th percentile per-packet one-way delay: 75.682 ms

Loss rate: 1.33%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-07-18 11:52:06

End at: 2018-07-18 11:52:36

Local clock offset: -1.218 ms

Remote clock offset: 2.801 ms

# Below is generated by plot.py at 2018-07-18 13:21:36

# Datalink statistics

-- Total of 3 flows:

Average throughput: 86.89 Mbit/s

95th percentile per-packet one-way delay: 69.240 ms

Loss rate: 0.54%

-- Flow 1:

Average throughput: 50.54 Mbit/s

95th percentile per-packet one-way delay: 69.946 ms

Loss rate: 0.48%

-- Flow 2:

Average throughput: 43.10 Mbit/s

95th percentile per-packet one-way delay: 57.076 ms

Loss rate: 0.56%

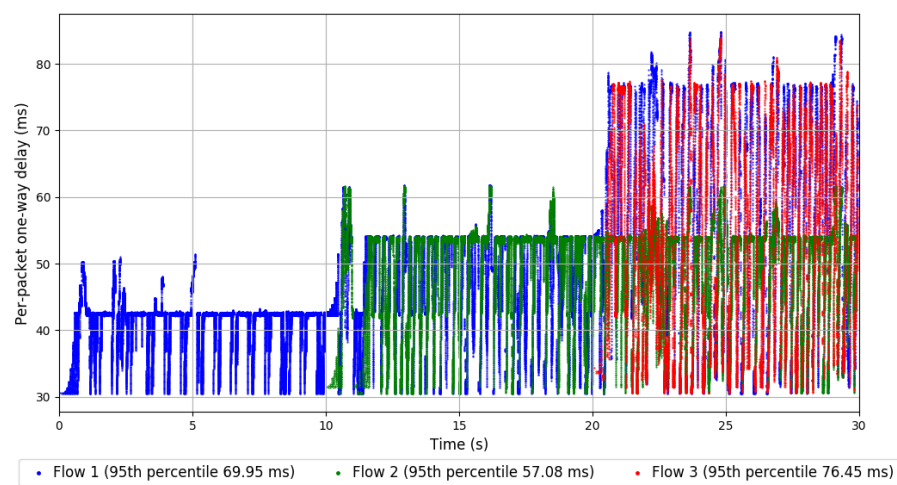
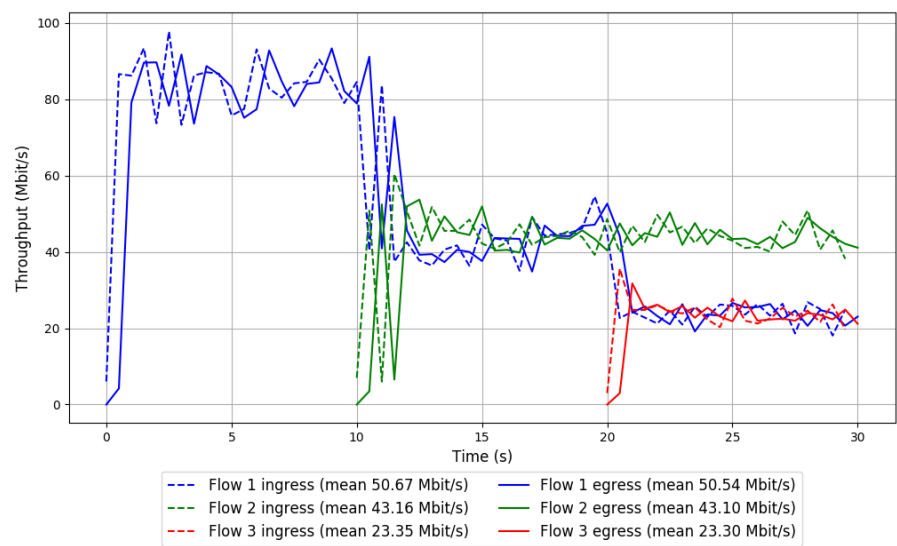
-- Flow 3:

Average throughput: 23.30 Mbit/s

95th percentile per-packet one-way delay: 76.448 ms

Loss rate: 0.83%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-07-18 12:15:45

End at: 2018-07-18 12:16:15

Local clock offset: -3.632 ms

Remote clock offset: 1.58 ms

# Below is generated by plot.py at 2018-07-18 13:21:49

# Datalink statistics

-- Total of 3 flows:

Average throughput: 88.42 Mbit/s

95th percentile per-packet one-way delay: 64.523 ms

Loss rate: 0.45%

-- Flow 1:

Average throughput: 52.61 Mbit/s

95th percentile per-packet one-way delay: 59.499 ms

Loss rate: 0.29%

-- Flow 2:

Average throughput: 40.34 Mbit/s

95th percentile per-packet one-way delay: 64.737 ms

Loss rate: 0.49%

-- Flow 3:

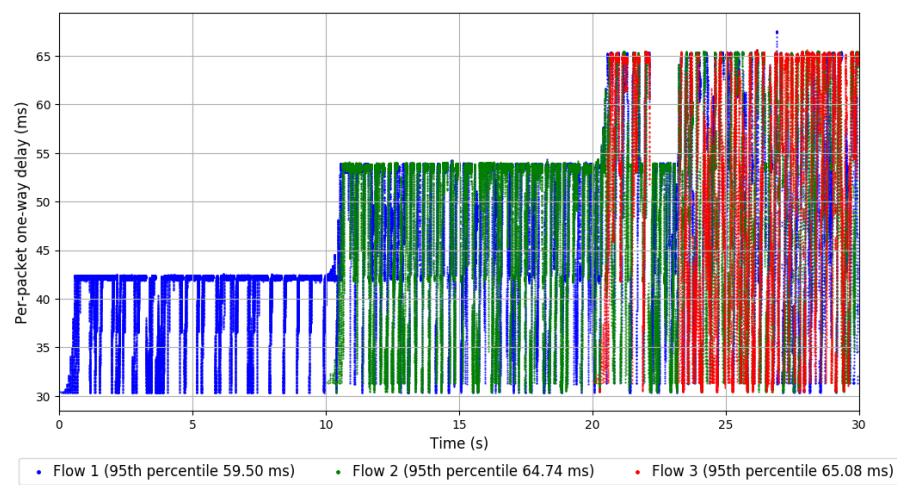
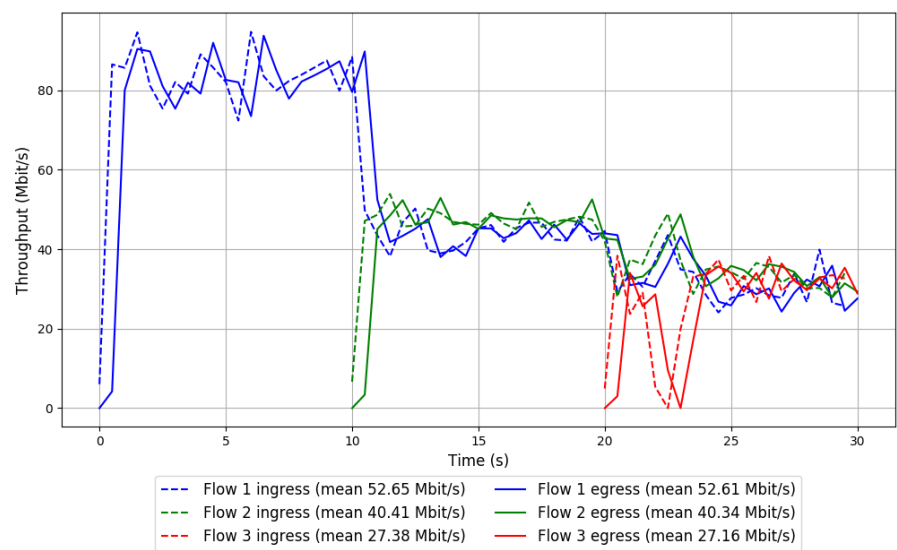
Average throughput: 27.16 Mbit/s

95th percentile per-packet one-way delay: 65.083 ms

Loss rate: 1.28%



Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-07-18 12:39:16

End at: 2018-07-18 12:39:46

Local clock offset: -4.677 ms

Remote clock offset: 1.096 ms

# Below is generated by plot.py at 2018-07-18 13:22:06

# Datalink statistics

-- Total of 3 flows:

Average throughput: 89.81 Mbit/s

95th percentile per-packet one-way delay: 62.878 ms

Loss rate: 0.52%

-- Flow 1:

Average throughput: 50.91 Mbit/s

95th percentile per-packet one-way delay: 67.335 ms

Loss rate: 0.45%

-- Flow 2:

Average throughput: 47.03 Mbit/s

95th percentile per-packet one-way delay: 53.893 ms

Loss rate: 0.55%

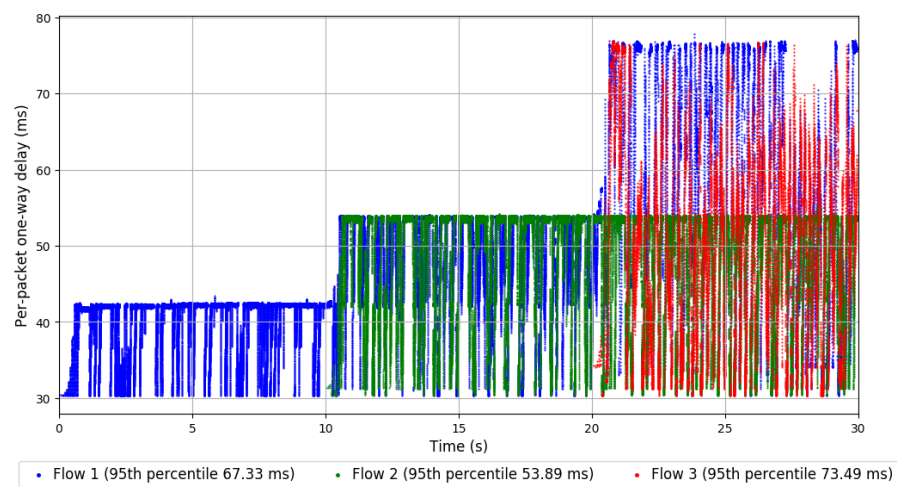
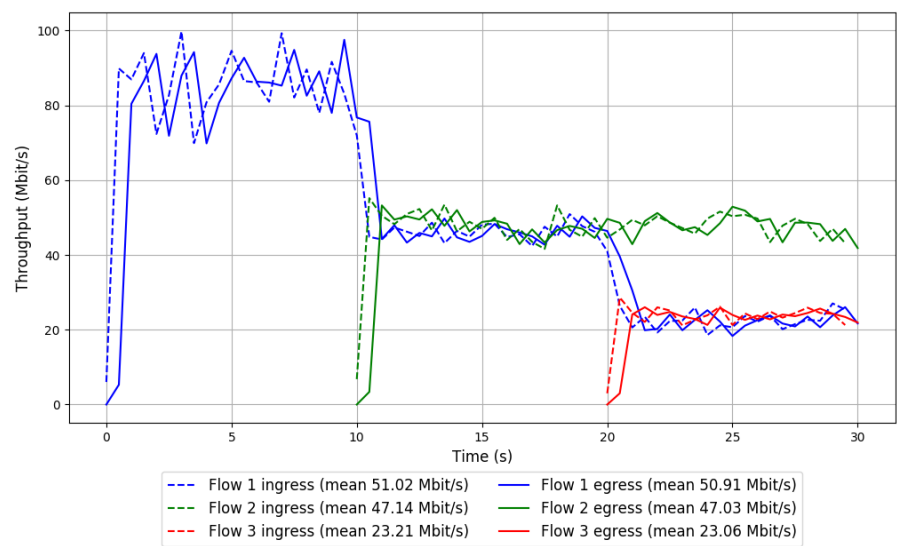
-- Flow 3:

Average throughput: 23.06 Mbit/s

95th percentile per-packet one-way delay: 73.491 ms

Loss rate: 0.90%

Run 10: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2018-07-18 09:06:31

End at: 2018-07-18 09:07:01

Local clock offset: 0.233 ms

Remote clock offset: 2.546 ms

# Below is generated by plot.py at 2018-07-18 13:22:25

# Datalink statistics

-- Total of 3 flows:

Average throughput: 86.96 Mbit/s

95th percentile per-packet one-way delay: 59.674 ms

Loss rate: 1.59%

-- Flow 1:

Average throughput: 52.34 Mbit/s

95th percentile per-packet one-way delay: 48.591 ms

Loss rate: 0.81%

-- Flow 2:

Average throughput: 38.69 Mbit/s

95th percentile per-packet one-way delay: 61.373 ms

Loss rate: 3.29%

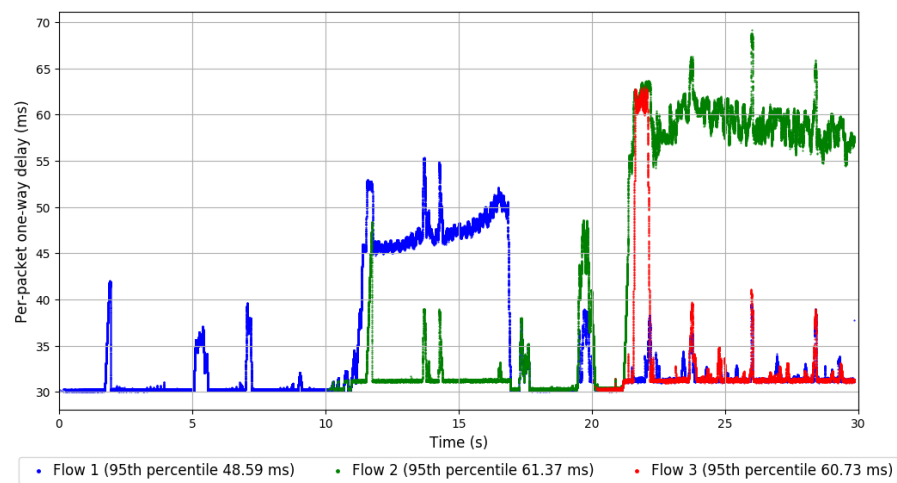
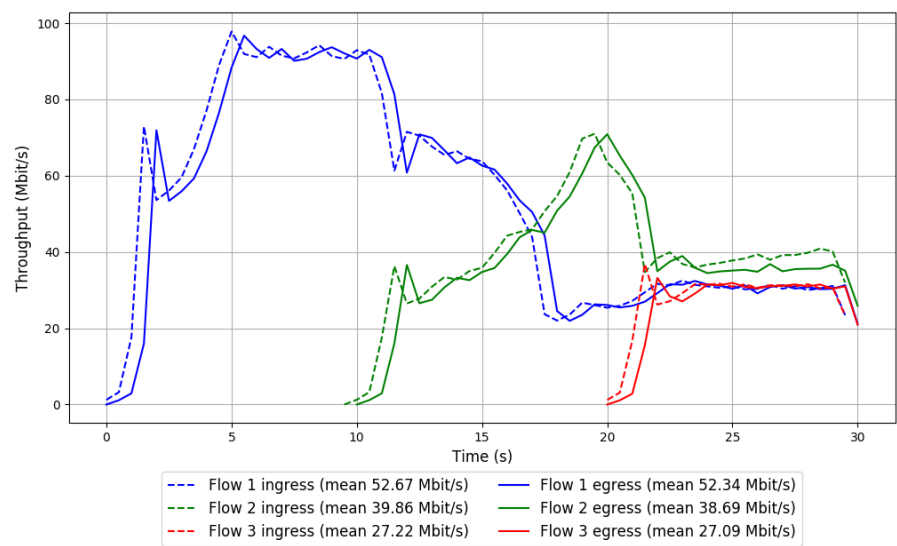
-- Flow 3:

Average throughput: 27.09 Mbit/s

95th percentile per-packet one-way delay: 60.733 ms

Loss rate: 1.16%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2018-07-18 09:29:31

End at: 2018-07-18 09:30:01

Local clock offset: 0.212 ms

Remote clock offset: 3.395 ms

# Below is generated by plot.py at 2018-07-18 13:22:25

# Datalink statistics

-- Total of 3 flows:

Average throughput: 81.87 Mbit/s

95th percentile per-packet one-way delay: 53.592 ms

Loss rate: 0.91%

-- Flow 1:

Average throughput: 53.23 Mbit/s

95th percentile per-packet one-way delay: 52.059 ms

Loss rate: 0.73%

-- Flow 2:

Average throughput: 34.75 Mbit/s

95th percentile per-packet one-way delay: 60.452 ms

Loss rate: 1.19%

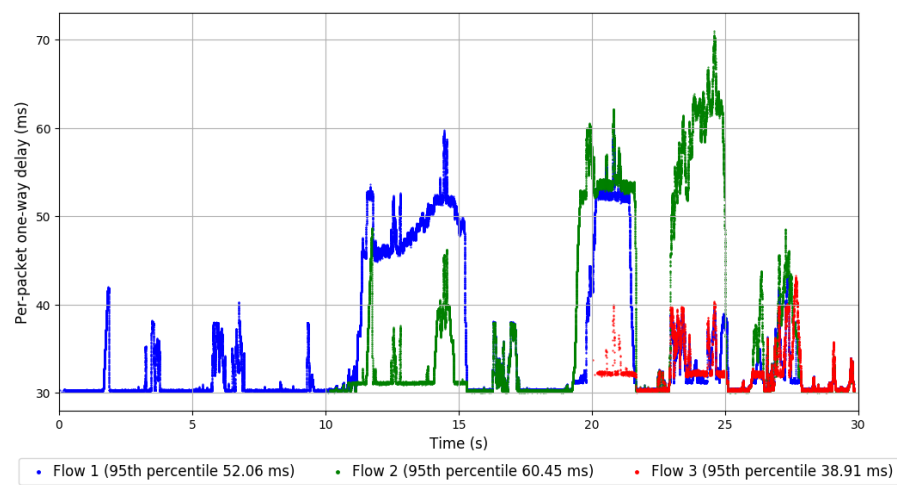
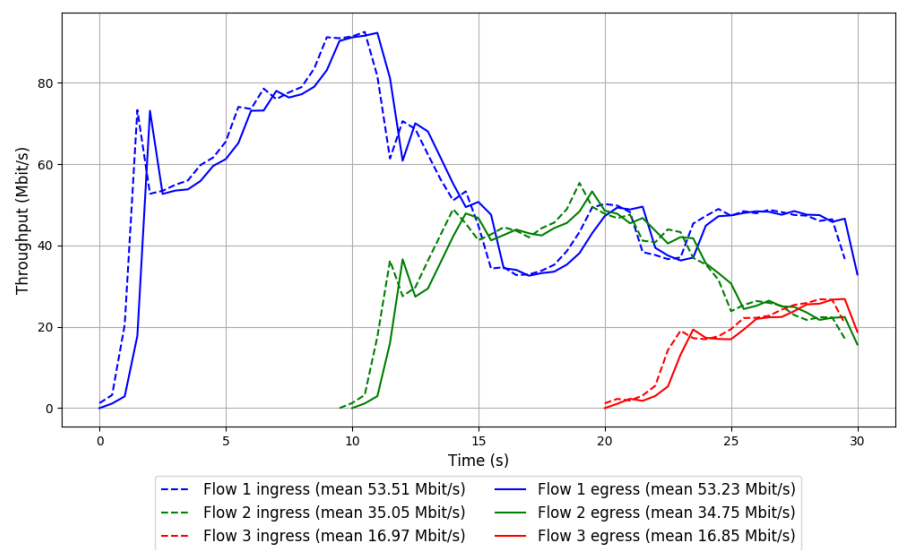
-- Flow 3:

Average throughput: 16.85 Mbit/s

95th percentile per-packet one-way delay: 38.907 ms

Loss rate: 1.43%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-07-18 09:52:53

End at: 2018-07-18 09:53:23

Local clock offset: 0.346 ms

Remote clock offset: 4.114 ms

# Below is generated by plot.py at 2018-07-18 13:22:34

# Datalink statistics

-- Total of 3 flows:

Average throughput: 86.15 Mbit/s

95th percentile per-packet one-way delay: 60.993 ms

Loss rate: 0.73%

-- Flow 1:

Average throughput: 52.88 Mbit/s

95th percentile per-packet one-way delay: 46.949 ms

Loss rate: 0.31%

-- Flow 2:

Average throughput: 35.48 Mbit/s

95th percentile per-packet one-way delay: 60.611 ms

Loss rate: 0.59%

-- Flow 3:

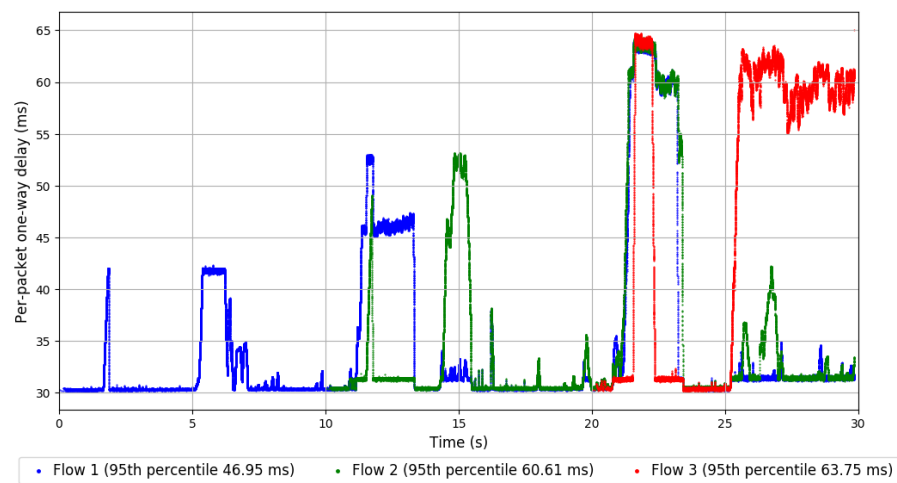
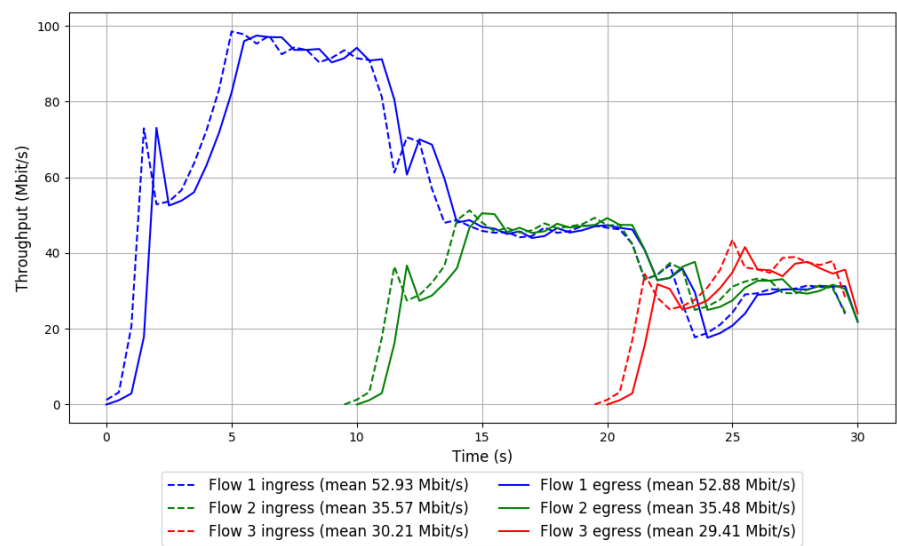
Average throughput: 29.41 Mbit/s

95th percentile per-packet one-way delay: 63.754 ms

Loss rate: 3.30%



Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2018-07-18 10:16:29

End at: 2018-07-18 10:16:59

Local clock offset: 0.317 ms

Remote clock offset: 3.597 ms

# Below is generated by plot.py at 2018-07-18 13:22:35

# Datalink statistics

-- Total of 3 flows:

Average throughput: 86.90 Mbit/s

95th percentile per-packet one-way delay: 62.553 ms

Loss rate: 1.46%

-- Flow 1:

Average throughput: 59.92 Mbit/s

95th percentile per-packet one-way delay: 52.488 ms

Loss rate: 1.22%

-- Flow 2:

Average throughput: 33.00 Mbit/s

95th percentile per-packet one-way delay: 70.365 ms

Loss rate: 2.04%

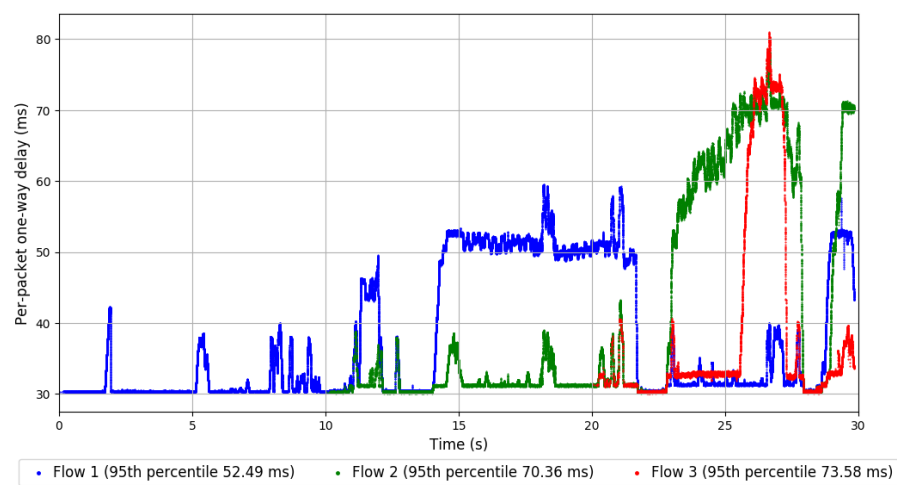
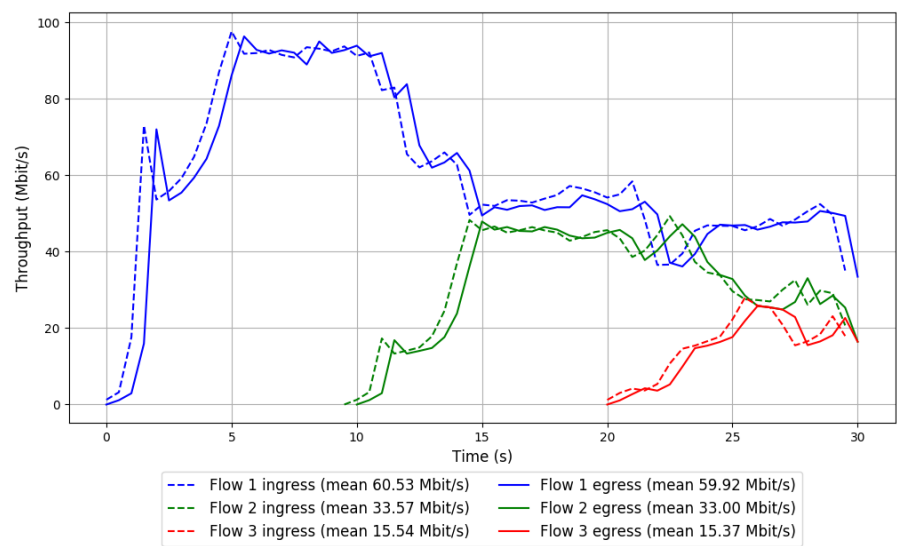
-- Flow 3:

Average throughput: 15.37 Mbit/s

95th percentile per-packet one-way delay: 73.575 ms

Loss rate: 1.75%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2018-07-18 10:40:06

End at: 2018-07-18 10:40:36

Local clock offset: 0.148 ms

Remote clock offset: 3.066 ms

# Below is generated by plot.py at 2018-07-18 13:22:44

# Datalink statistics

-- Total of 3 flows:

Average throughput: 86.73 Mbit/s

95th percentile per-packet one-way delay: 52.864 ms

Loss rate: 0.68%

-- Flow 1:

Average throughput: 55.38 Mbit/s

95th percentile per-packet one-way delay: 52.089 ms

Loss rate: 0.71%

-- Flow 2:

Average throughput: 37.11 Mbit/s

95th percentile per-packet one-way delay: 61.953 ms

Loss rate: 0.52%

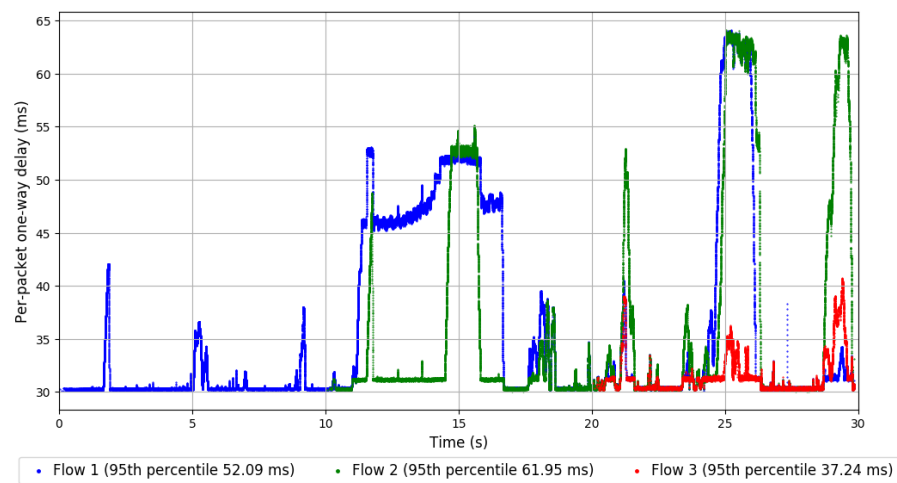
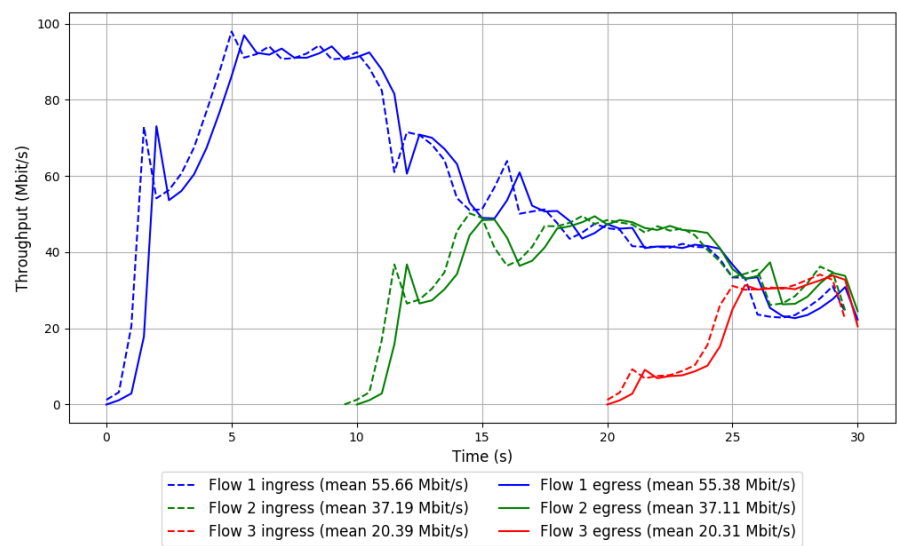
-- Flow 3:

Average throughput: 20.31 Mbit/s

95th percentile per-packet one-way delay: 37.242 ms

Loss rate: 1.06%

Run 5: Report of PCC-Vivace — Data Link



Run 6: Statistics of PCC-Vivace

Start at: 2018-07-18 11:03:31

End at: 2018-07-18 11:04:01

Local clock offset: 0.118 ms

Remote clock offset: 3.127 ms

# Below is generated by plot.py at 2018-07-18 13:22:44

# Datalink statistics

-- Total of 3 flows:

Average throughput: 85.54 Mbit/s

95th percentile per-packet one-way delay: 55.905 ms

Loss rate: 3.83%

-- Flow 1:

Average throughput: 58.60 Mbit/s

95th percentile per-packet one-way delay: 52.097 ms

Loss rate: 5.06%

-- Flow 2:

Average throughput: 35.03 Mbit/s

95th percentile per-packet one-way delay: 72.824 ms

Loss rate: 0.90%

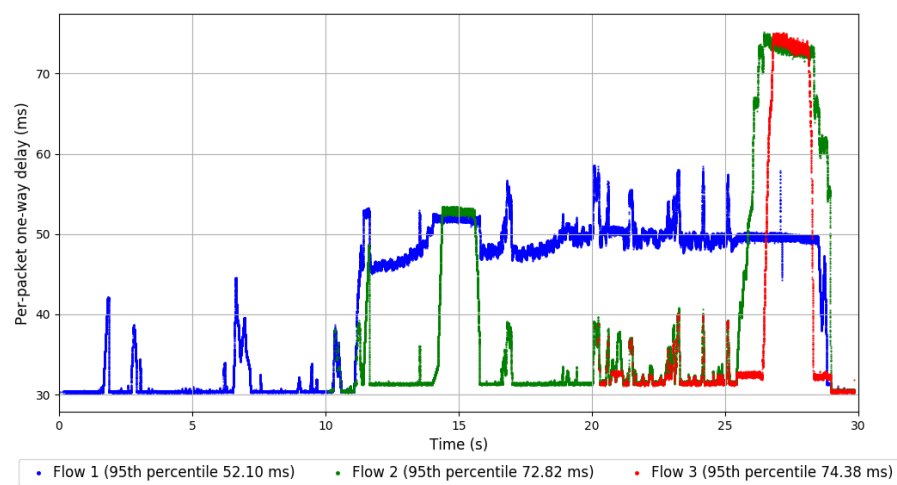
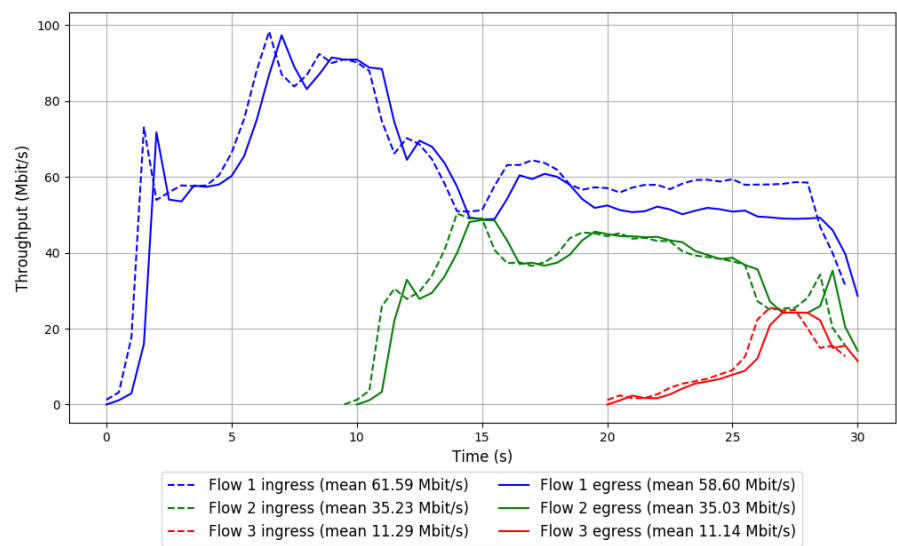
-- Flow 3:

Average throughput: 11.14 Mbit/s

95th percentile per-packet one-way delay: 74.376 ms

Loss rate: 1.97%

Run 6: Report of PCC-Vivace — Data Link



Run 7: Statistics of PCC-Vivace

Start at: 2018-07-18 11:27:14

End at: 2018-07-18 11:27:44

Local clock offset: 0.163 ms

Remote clock offset: 3.428 ms

# Below is generated by plot.py at 2018-07-18 13:22:59

# Datalink statistics

-- Total of 3 flows:

Average throughput: 86.17 Mbit/s

95th percentile per-packet one-way delay: 58.963 ms

Loss rate: 2.74%

-- Flow 1:

Average throughput: 57.35 Mbit/s

95th percentile per-packet one-way delay: 56.677 ms

Loss rate: 3.54%

-- Flow 2:

Average throughput: 30.95 Mbit/s

95th percentile per-packet one-way delay: 72.835 ms

Loss rate: 1.10%

-- Flow 3:

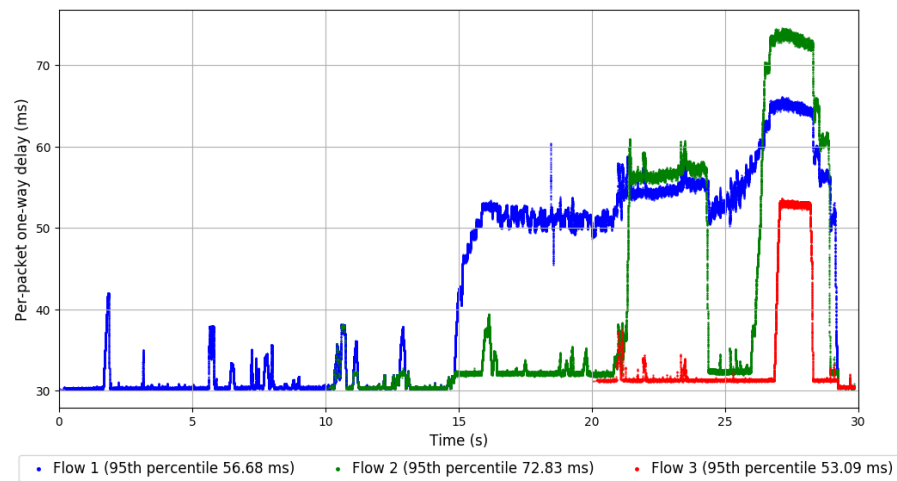
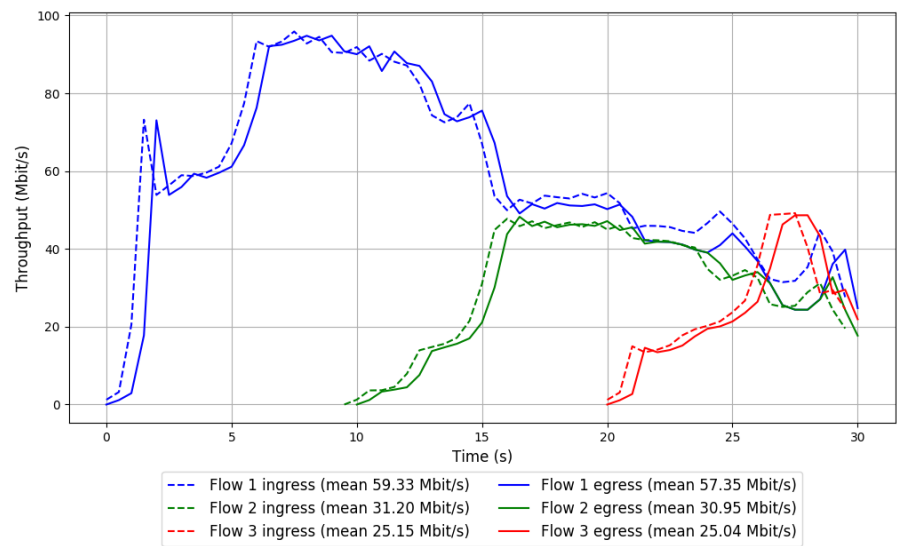
Average throughput: 25.04 Mbit/s

95th percentile per-packet one-way delay: 53.089 ms

Loss rate: 1.13%



Run 7: Report of PCC-Vivace — Data Link



Run 8: Statistics of PCC-Vivace

Start at: 2018-07-18 11:50:43

End at: 2018-07-18 11:51:13

Local clock offset: -0.911 ms

Remote clock offset: 2.842 ms

# Below is generated by plot.py at 2018-07-18 13:23:07

# Datalink statistics

-- Total of 3 flows:

Average throughput: 85.39 Mbit/s

95th percentile per-packet one-way delay: 64.479 ms

Loss rate: 1.37%

-- Flow 1:

Average throughput: 61.08 Mbit/s

95th percentile per-packet one-way delay: 42.143 ms

Loss rate: 0.35%

-- Flow 2:

Average throughput: 19.72 Mbit/s

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

Loss rate: 6.03%

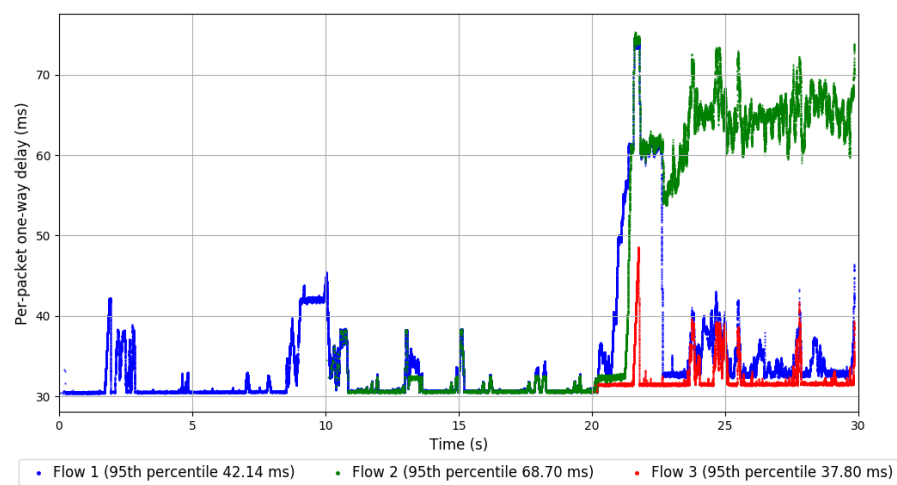
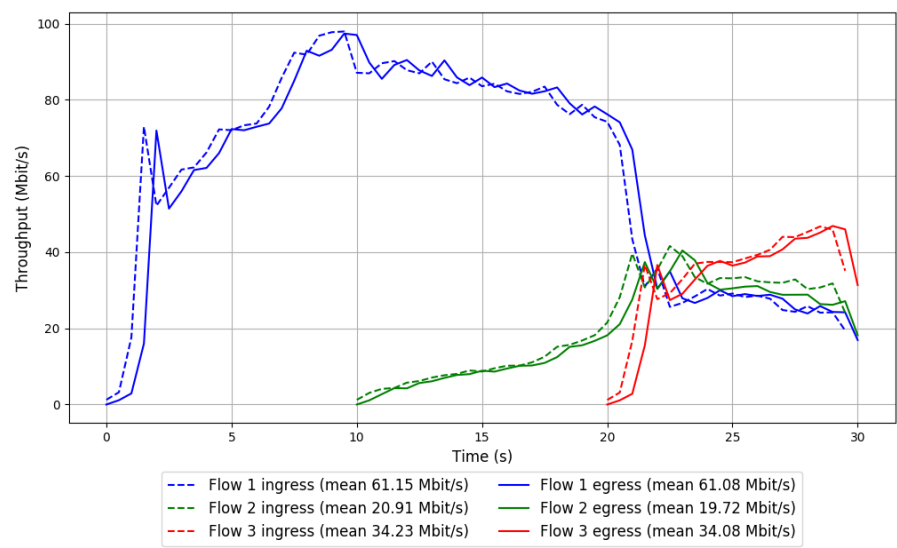
-- Flow 3:

Average throughput: 34.08 Mbit/s

95th percentile per-packet one-way delay: 37.799 ms

Loss rate: 1.12%

Run 8: Report of PCC-Vivace — Data Link



Run 9: Statistics of PCC-Vivace

Start at: 2018-07-18 12:14:20

End at: 2018-07-18 12:14:50

Local clock offset: -3.536 ms

Remote clock offset: 1.492 ms

# Below is generated by plot.py at 2018-07-18 13:23:10

# Datalink statistics

-- Total of 3 flows:

Average throughput: 86.86 Mbit/s

95th percentile per-packet one-way delay: 63.230 ms

Loss rate: 0.83%

-- Flow 1:

Average throughput: 54.63 Mbit/s

95th percentile per-packet one-way delay: 60.539 ms

Loss rate: 0.78%

-- Flow 2:

Average throughput: 30.94 Mbit/s

95th percentile per-packet one-way delay: 73.347 ms

Loss rate: 0.88%

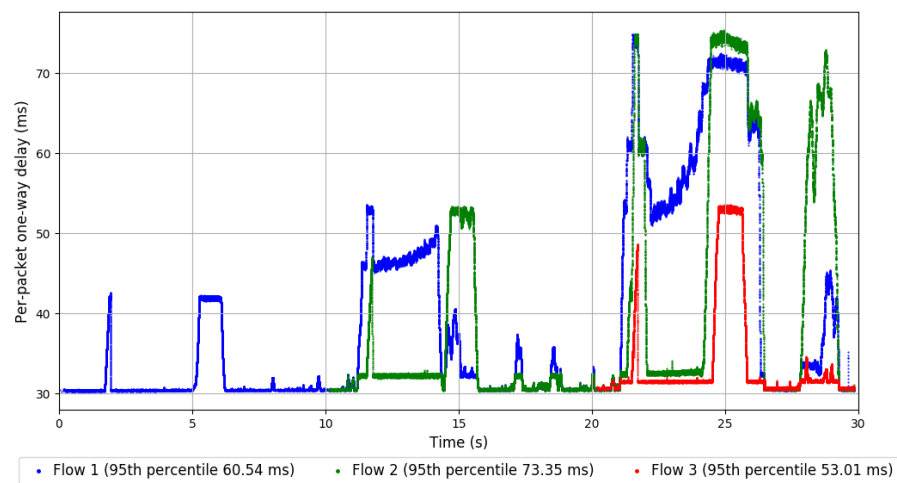
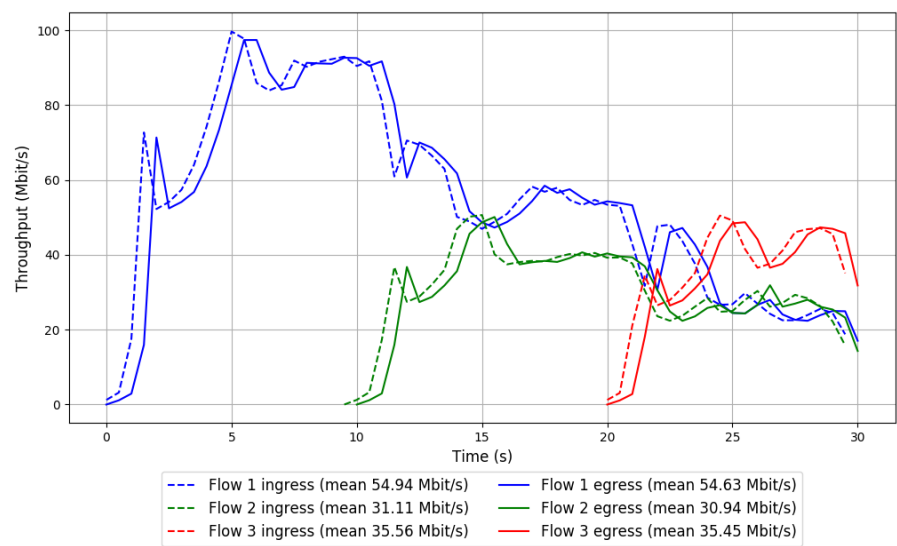
-- Flow 3:

Average throughput: 35.45 Mbit/s

95th percentile per-packet one-way delay: 53.014 ms

Loss rate: 1.00%

Run 9: Report of PCC-Vivace — Data Link



Run 10: Statistics of PCC-Vivace

Start at: 2018-07-18 12:37:46

End at: 2018-07-18 12:38:16

Local clock offset: -4.718 ms

Remote clock offset: 1.07 ms

# Below is generated by plot.py at 2018-07-18 13:23:10

# Datalink statistics

-- Total of 3 flows:

Average throughput: 86.92 Mbit/s

95th percentile per-packet one-way delay: 60.651 ms

Loss rate: 1.07%

-- Flow 1:

Average throughput: 52.88 Mbit/s

95th percentile per-packet one-way delay: 59.774 ms

Loss rate: 0.50%

-- Flow 2:

Average throughput: 37.34 Mbit/s

95th percentile per-packet one-way delay: 61.042 ms

Loss rate: 2.20%

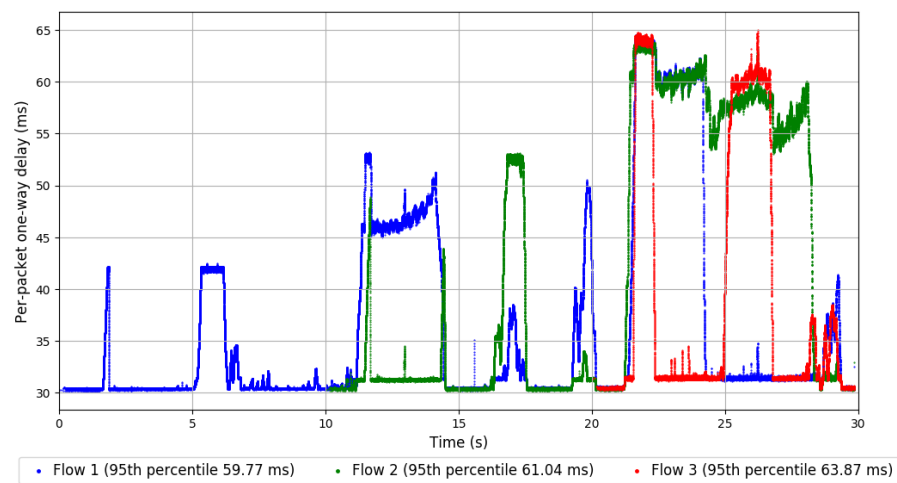
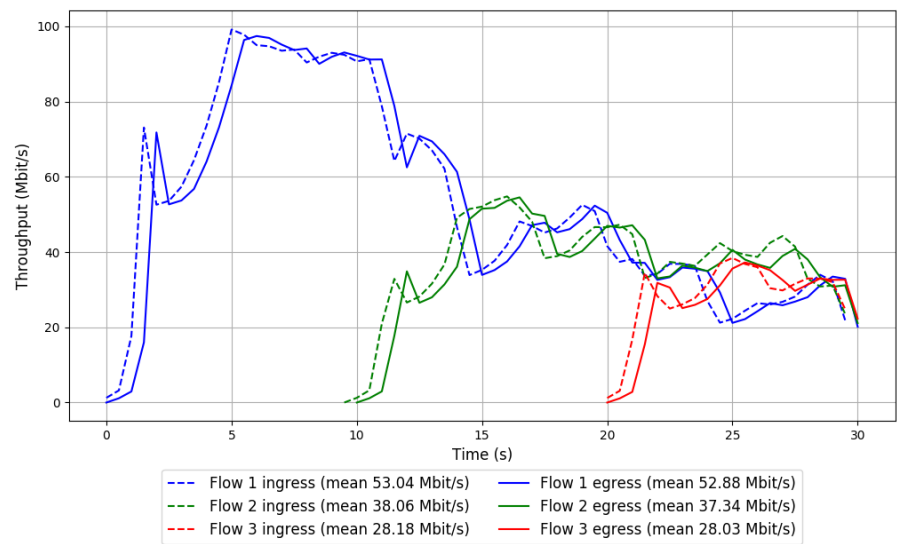
-- Flow 3:

Average throughput: 28.03 Mbit/s

95th percentile per-packet one-way delay: 63.867 ms

Loss rate: 1.20%

Run 10: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

Start at: 2018-07-18 09:16:00

End at: 2018-07-18 09:16:30

Local clock offset: 0.352 ms

Remote clock offset: 3.061 ms

# Below is generated by plot.py at 2018-07-18 13:23:10

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.19 Mbit/s

95th percentile per-packet one-way delay: 31.211 ms

Loss rate: 0.33%

-- Flow 1:

Average throughput: 1.78 Mbit/s

95th percentile per-packet one-way delay: 31.111 ms

Loss rate: 0.20%

-- Flow 2:

Average throughput: 1.01 Mbit/s

95th percentile per-packet one-way delay: 31.233 ms

Loss rate: 0.35%

-- Flow 3:

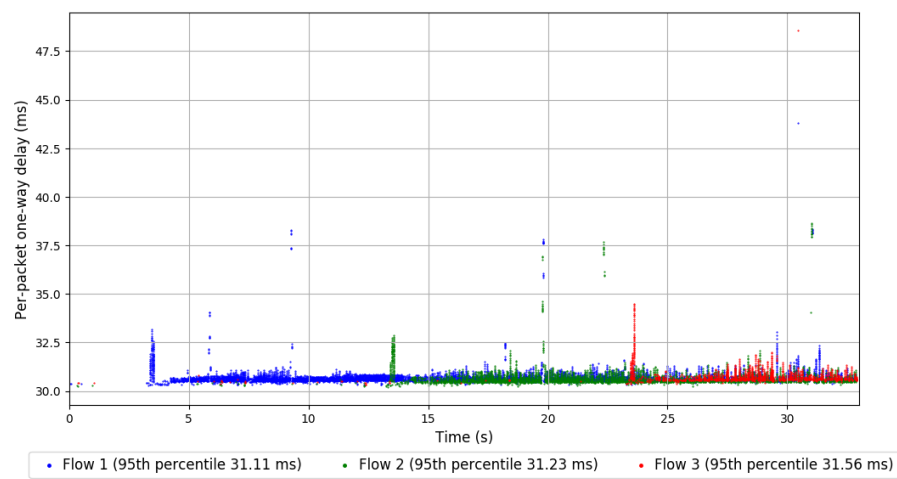
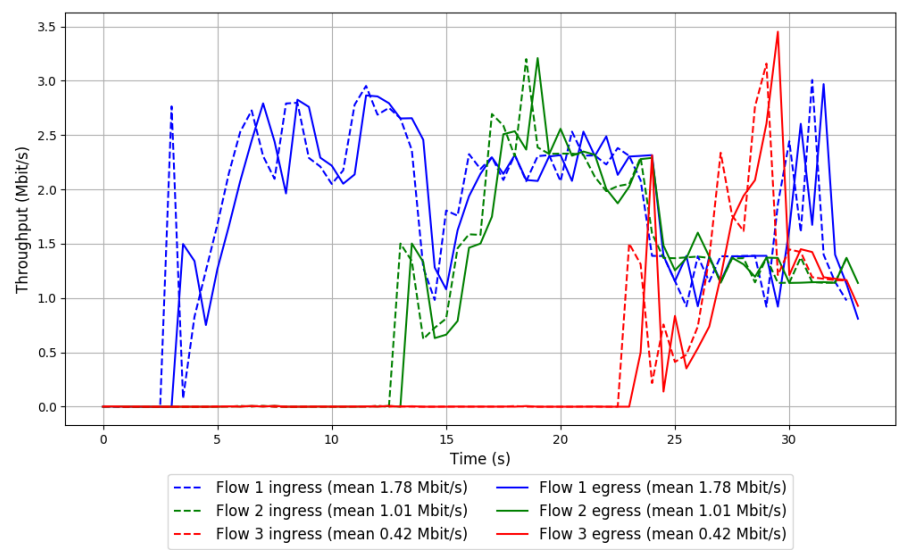
Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 31.558 ms

Loss rate: 0.86%



Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-07-18 09:39:01

End at: 2018-07-18 09:39:31

Local clock offset: 0.25 ms

Remote clock offset: 3.603 ms

# Below is generated by plot.py at 2018-07-18 13:23:10

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.30 Mbit/s

95th percentile per-packet one-way delay: 30.988 ms

Loss rate: 0.28%

-- Flow 1:

Average throughput: 1.84 Mbit/s

95th percentile per-packet one-way delay: 30.944 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 1.09 Mbit/s

95th percentile per-packet one-way delay: 31.035 ms

Loss rate: 0.32%

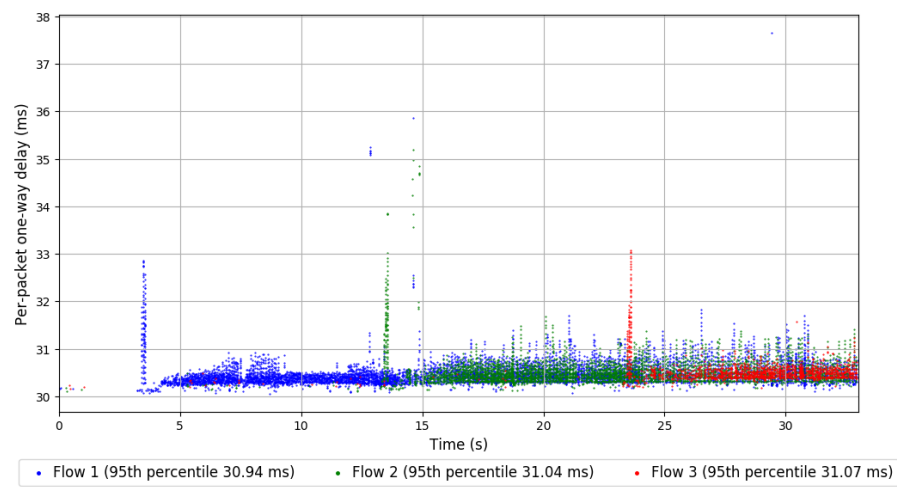
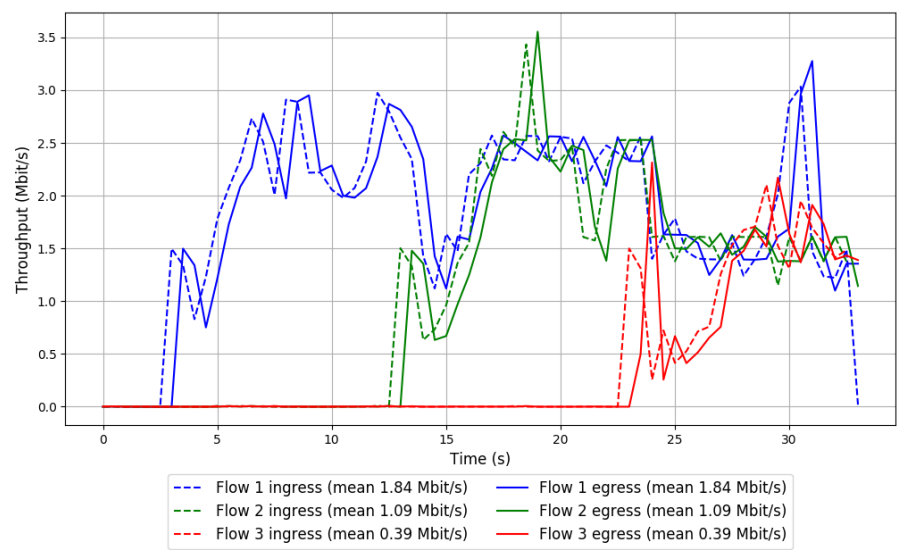
-- Flow 3:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 31.072 ms

Loss rate: 0.91%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-07-18 10:02:34

End at: 2018-07-18 10:03:04

Local clock offset: 0.214 ms

Remote clock offset: 3.797 ms

# Below is generated by plot.py at 2018-07-18 13:23:10

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.38 Mbit/s

95th percentile per-packet one-way delay: 31.020 ms

Loss rate: 0.32%

-- Flow 1:

Average throughput: 1.87 Mbit/s

95th percentile per-packet one-way delay: 30.909 ms

Loss rate: 0.20%

-- Flow 2:

Average throughput: 1.08 Mbit/s

95th percentile per-packet one-way delay: 30.946 ms

Loss rate: 0.32%

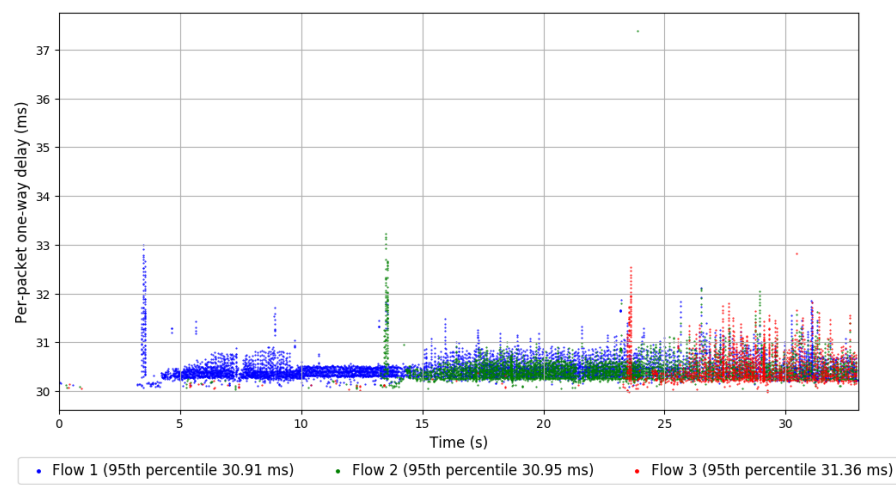
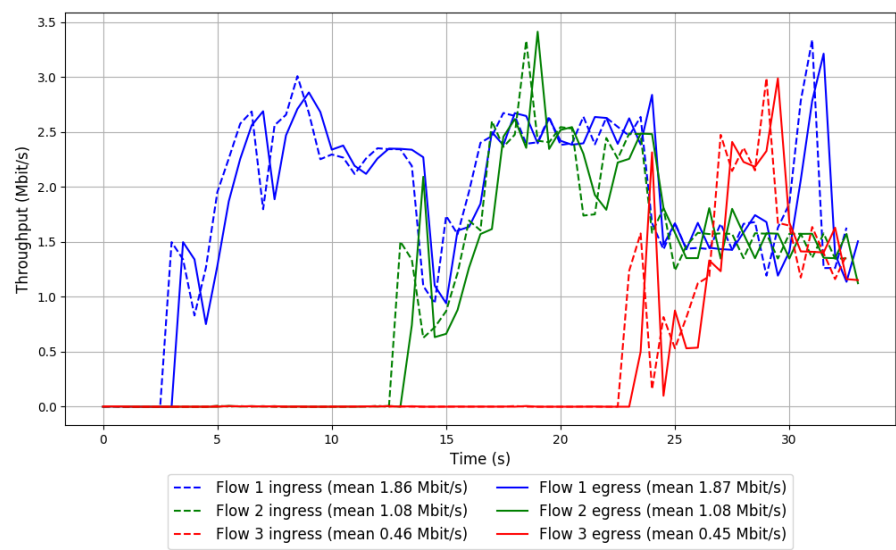
-- Flow 3:

Average throughput: 0.45 Mbit/s

95th percentile per-packet one-way delay: 31.358 ms

Loss rate: 0.77%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-07-18 10:26:22

End at: 2018-07-18 10:26:52

Local clock offset: 0.121 ms

Remote clock offset: 3.681 ms

# Below is generated by plot.py at 2018-07-18 13:23:10

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.39 Mbit/s

95th percentile per-packet one-way delay: 31.069 ms

Loss rate: 0.31%

-- Flow 1:

Average throughput: 1.86 Mbit/s

95th percentile per-packet one-way delay: 31.021 ms

Loss rate: 0.21%

-- Flow 2:

Average throughput: 1.08 Mbit/s

95th percentile per-packet one-way delay: 31.028 ms

Loss rate: 0.30%

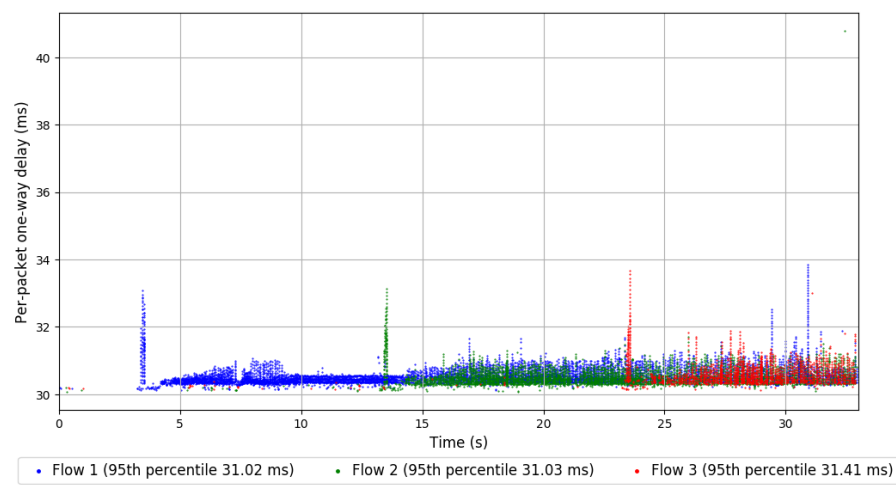
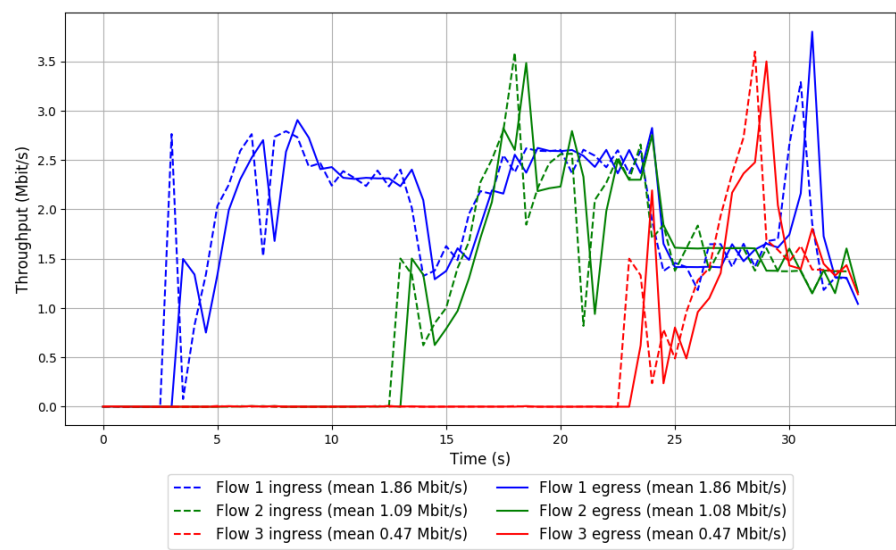
-- Flow 3:

Average throughput: 0.47 Mbit/s

95th percentile per-packet one-way delay: 31.408 ms

Loss rate: 0.75%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-07-18 10:49:51

End at: 2018-07-18 10:50:21

Local clock offset: 0.162 ms

Remote clock offset: 2.934 ms

# Below is generated by plot.py at 2018-07-18 13:23:10

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.58 Mbit/s

95th percentile per-packet one-way delay: 31.112 ms

Loss rate: 0.32%

-- Flow 1:

Average throughput: 2.06 Mbit/s

95th percentile per-packet one-way delay: 30.941 ms

Loss rate: 0.22%

-- Flow 2:

Average throughput: 1.08 Mbit/s

95th percentile per-packet one-way delay: 31.093 ms

Loss rate: 0.33%

-- Flow 3:

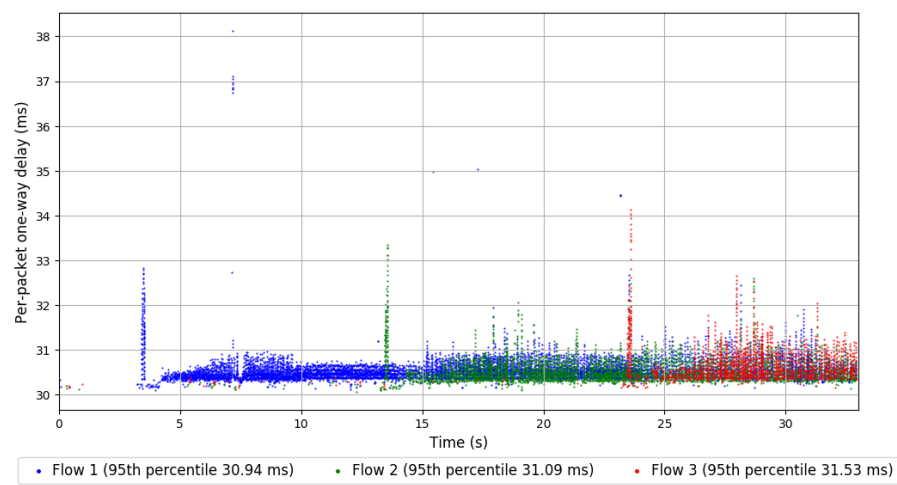
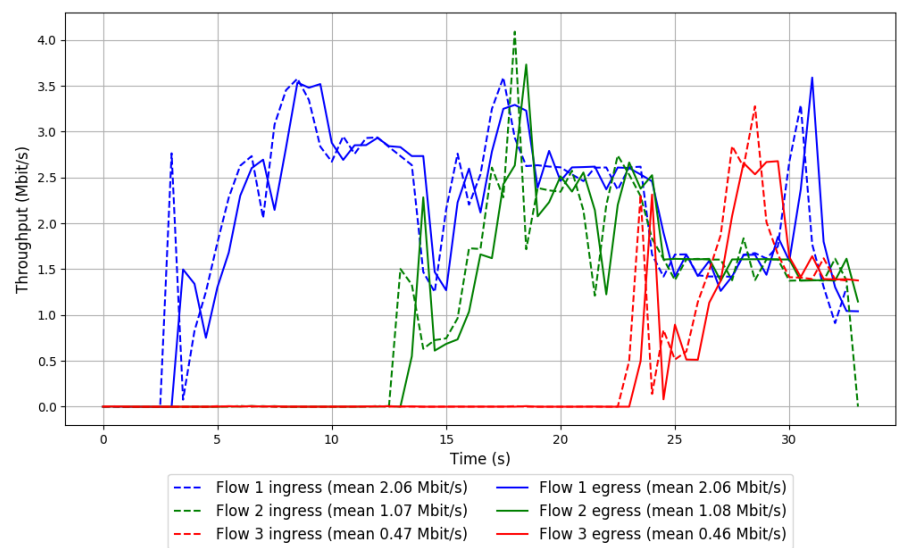
Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: 31.527 ms

Loss rate: 0.75%



Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-07-18 11:13:25

End at: 2018-07-18 11:13:55

Local clock offset: 0.125 ms

Remote clock offset: 3.128 ms

# Below is generated by plot.py at 2018-07-18 13:23:10

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.38 Mbit/s

95th percentile per-packet one-way delay: 31.098 ms

Loss rate: 0.24%

-- Flow 1:

Average throughput: 1.85 Mbit/s

95th percentile per-packet one-way delay: 31.040 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 1.07 Mbit/s

95th percentile per-packet one-way delay: 31.120 ms

Loss rate: 0.24%

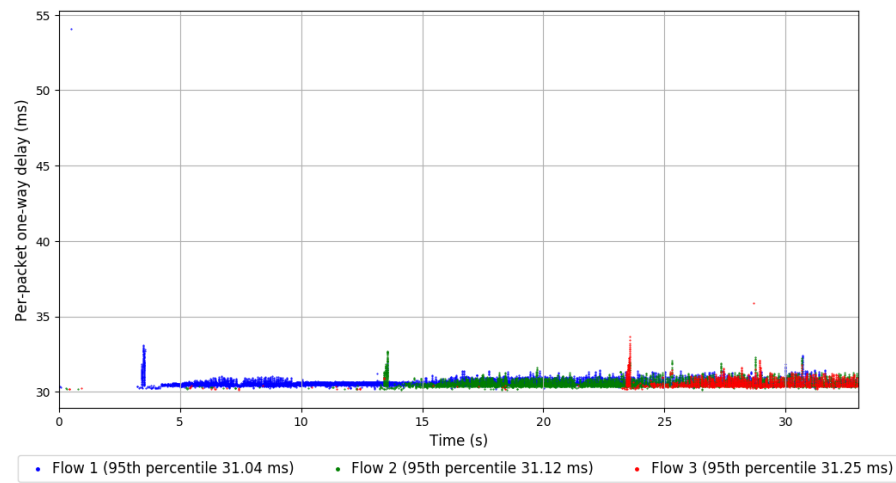
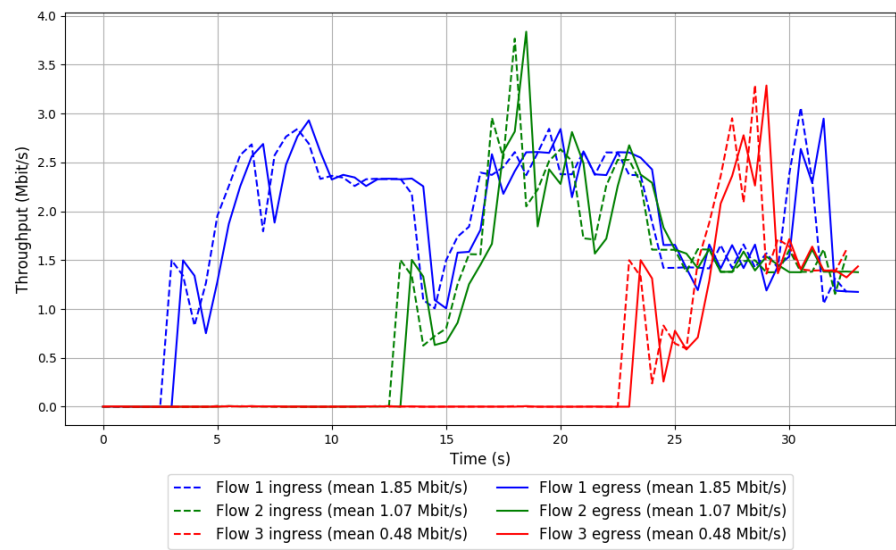
-- Flow 3:

Average throughput: 0.48 Mbit/s

95th percentile per-packet one-way delay: 31.248 ms

Loss rate: 0.74%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-07-18 11:36:56

End at: 2018-07-18 11:37:26

Local clock offset: 0.06 ms

Remote clock offset: 3.567 ms

# Below is generated by plot.py at 2018-07-18 13:23:10

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.38 Mbit/s

95th percentile per-packet one-way delay: 31.063 ms

Loss rate: 0.16%

-- Flow 1:

Average throughput: 1.84 Mbit/s

95th percentile per-packet one-way delay: 31.035 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 1.08 Mbit/s

95th percentile per-packet one-way delay: 31.064 ms

Loss rate: 0.00%

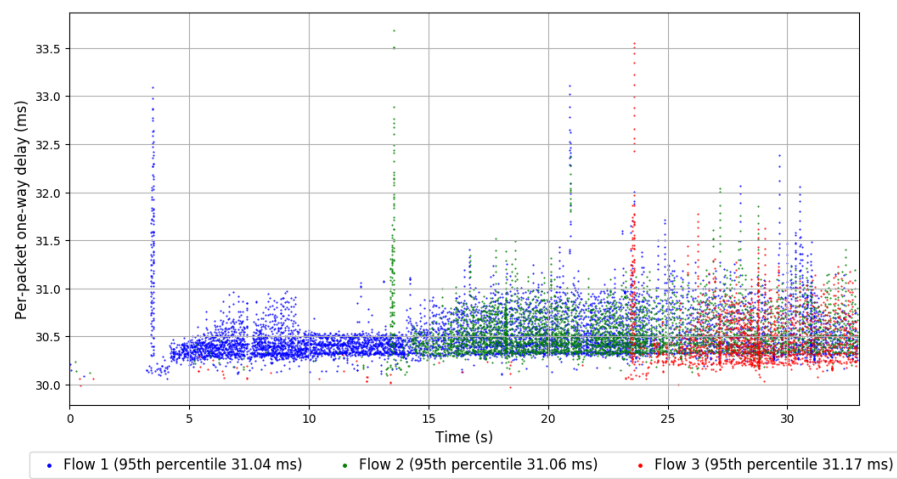
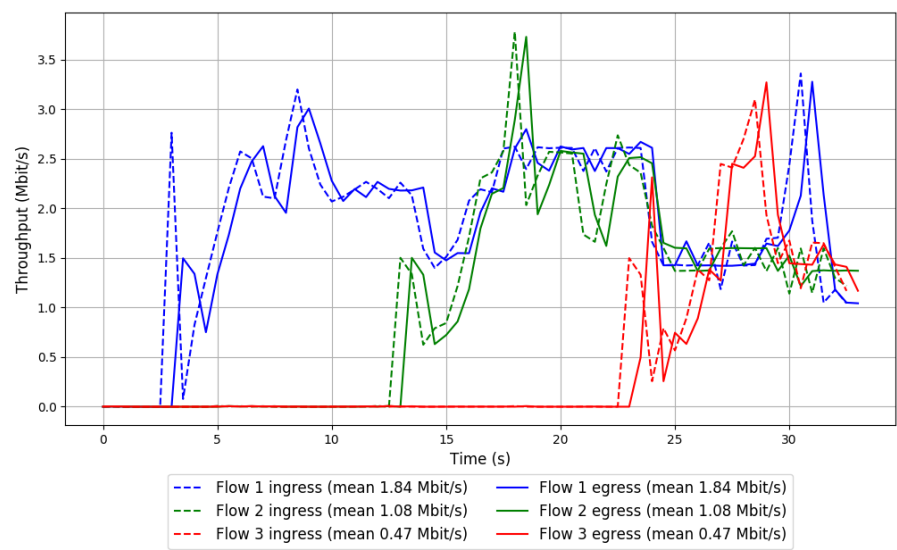
-- Flow 3:

Average throughput: 0.47 Mbit/s

95th percentile per-packet one-way delay: 31.166 ms

Loss rate: 0.75%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-07-18 12:00:36

End at: 2018-07-18 12:01:06

Local clock offset: -2.514 ms

Remote clock offset: 2.277 ms

# Below is generated by plot.py at 2018-07-18 13:23:10

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.28 Mbit/s

95th percentile per-packet one-way delay: 31.177 ms

Loss rate: 0.22%

-- Flow 1:

Average throughput: 1.81 Mbit/s

95th percentile per-packet one-way delay: 31.050 ms

Loss rate: 0.22%

-- Flow 2:

Average throughput: 1.03 Mbit/s

95th percentile per-packet one-way delay: 31.063 ms

Loss rate: 0.33%

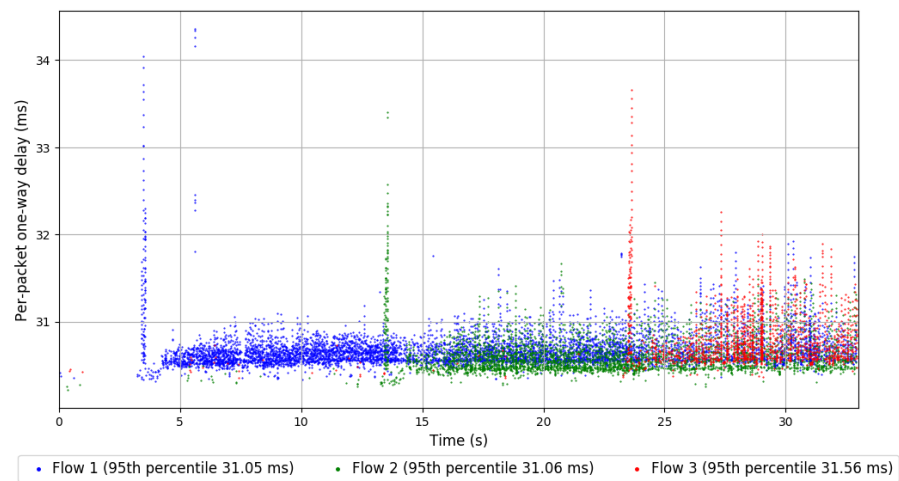
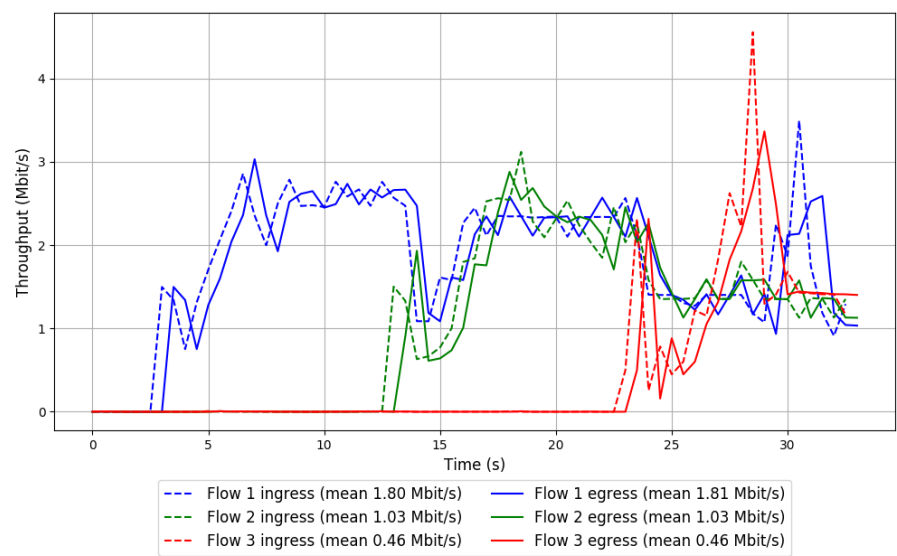
-- Flow 3:

Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: 31.564 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-07-18 12:24:02

End at: 2018-07-18 12:24:32

Local clock offset: -4.119 ms

Remote clock offset: 1.537 ms

# Below is generated by plot.py at 2018-07-18 13:23:10

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.33 Mbit/s

95th percentile per-packet one-way delay: 31.134 ms

Loss rate: 0.18%

-- Flow 1:

Average throughput: 1.83 Mbit/s

95th percentile per-packet one-way delay: 30.925 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 1.05 Mbit/s

95th percentile per-packet one-way delay: 31.042 ms

Loss rate: 0.33%

-- Flow 3:

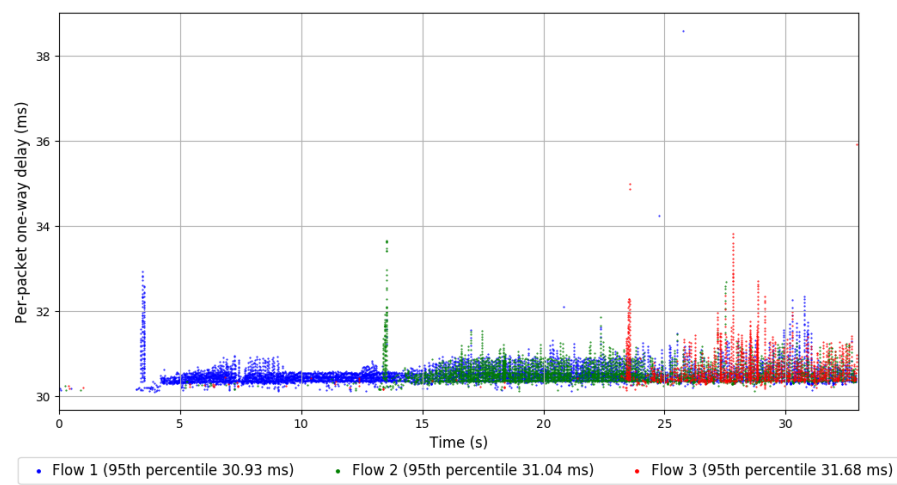
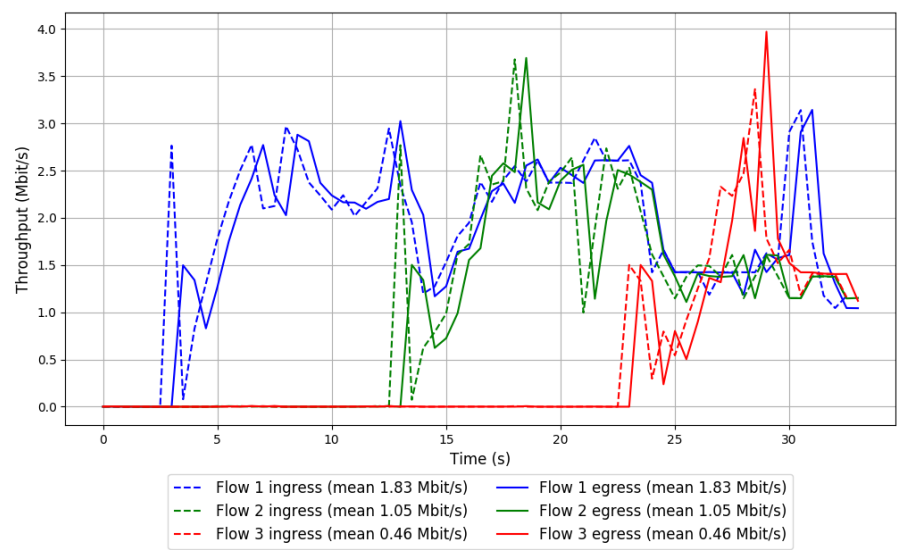
Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: 31.676 ms

Loss rate: 0.13%



Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-07-18 12:47:22

End at: 2018-07-18 12:47:52

Local clock offset: -5.055 ms

Remote clock offset: 1.149 ms

# Below is generated by plot.py at 2018-07-18 13:23:10

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.35 Mbit/s

95th percentile per-packet one-way delay: 30.505 ms

Loss rate: 0.28%

-- Flow 1:

Average throughput: 1.84 Mbit/s

95th percentile per-packet one-way delay: 30.438 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.06 Mbit/s

95th percentile per-packet one-way delay: 30.470 ms

Loss rate: 0.55%

-- Flow 3:

Average throughput: 0.47 Mbit/s

95th percentile per-packet one-way delay: 30.832 ms

Loss rate: 0.74%

Run 10: Report of WebRTC media — Data Link

