

## Pantheon Report

Generated at 2018-07-04 09:57:57 (UTC).

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

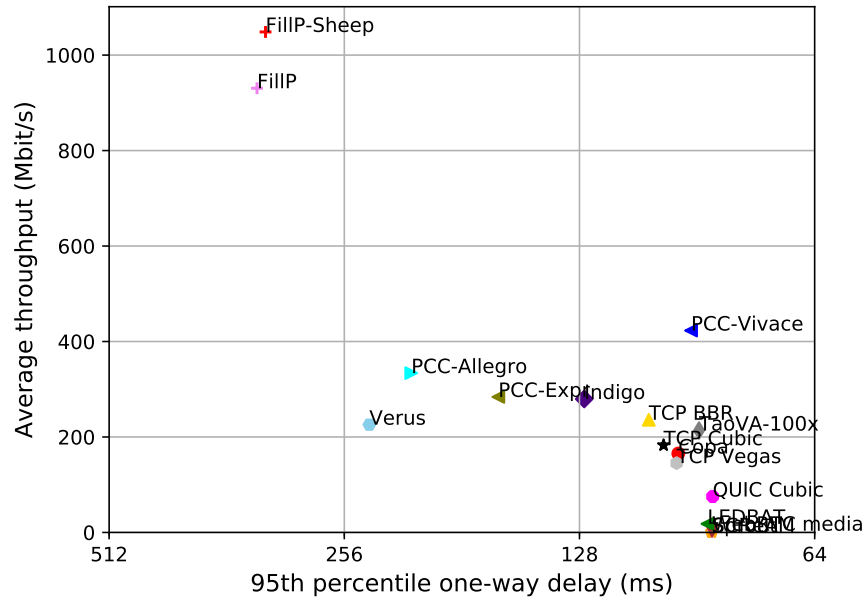
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

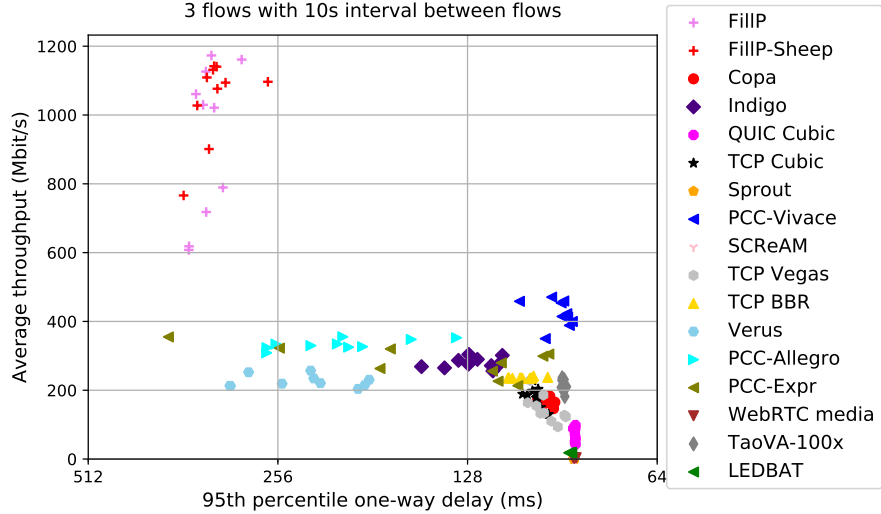
Git summary:

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



test from GCE Iowa to GCE Sydney, 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     | 122.19                 | 117.30 | 109.63 | 101.95                    | 103.90 | 108.64 | 0.63               | 0.90   | 2.07   |
| Copa         | 10     | 100.92                 | 83.59  | 68.05  | 95.07                     | 96.73  | 97.76  | 0.39               | 0.65   | 1.36   |
| TCP Cubic    | 10     | 97.01                  | 87.22  | 85.47  | 98.42                     | 99.44  | 102.66 | 0.58               | 1.06   | 3.09   |
| FillP        | 10     | 406.06                 | 566.22 | 454.23 | 328.90                    | 332.71 | 301.63 | 3.27               | 4.32   | 5.36   |
| FillP-Sheep  | 10     | 555.54                 | 511.36 | 470.32 | 325.70                    | 322.59 | 244.74 | 4.46               | 4.58   | 4.96   |
| Indigo       | 10     | 153.05                 | 137.09 | 108.33 | 118.57                    | 126.65 | 135.89 | 0.53               | 0.87   | 2.06   |
| LEDBAT       | 10     | 11.76                  | 7.83   | 3.44   | 87.86                     | 87.75  | 87.40  | 1.17               | 1.75   | 3.73   |
| PCC-Allegro  | 10     | 298.25                 | 43.48  | 20.69  | 209.88                    | 208.23 | 203.53 | 1.28               | 1.27   | 2.42   |
| PCC-Expr     | 10     | 183.05                 | 138.78 | 27.15  | 159.35                    | 147.08 | 152.95 | 2.36               | 1.67   | 3.51   |
| QUIC Cubic   | 10     | 33.76                  | 47.58  | 29.98  | 86.50                     | 86.31  | 86.39  | 1.08               | 1.15   | 2.94   |
| SCReAM       | 10     | 0.22                   | 0.22   | 0.22   | 86.45                     | 86.49  | 86.50  | 0.52               | 0.91   | 1.82   |
| Sprout       | 10     | 0.28                   | 0.30   | 0.34   | 86.70                     | 86.70  | 86.73  | 0.27               | 0.58   | 1.27   |
| TaoVA-100x   | 10     | 142.44                 | 75.67  | 75.10  | 88.71                     | 93.18  | 94.97  | 0.38               | 0.43   | 2.55   |
| TCP Vegas    | 10     | 89.50                  | 58.44  | 52.07  | 95.08                     | 96.20  | 95.65  | 0.53               | 1.00   | 2.32   |
| Verus        | 10     | 146.76                 | 93.78  | 53.12  | 216.05                    | 236.19 | 207.39 | 1.38               | 2.03   | 3.78   |
| PCC-Vivace   | 10     | 256.97                 | 195.26 | 112.20 | 97.49                     | 88.24  | 91.12  | 0.55               | 1.17   | 2.51   |
| WebRTC media | 10     | 1.95                   | 1.26   | 0.46   | 86.44                     | 86.61  | 86.66  | 0.70               | 1.42   | 2.91   |

Run 1: Statistics of TCP BBR

Start at: 2018-07-04 03:30:23

End at: 2018-07-04 03:30:53

Local clock offset: 0.024 ms

Remote clock offset: 0.02 ms

# Below is generated by plot.py at 2018-07-04 07:50:36

# Datalink statistics

-- Total of 3 flows:

Average throughput: 235.46 Mbit/s

95th percentile per-packet one-way delay: 101.156 ms

Loss rate: 0.96%

-- Flow 1:

Average throughput: 121.38 Mbit/s

95th percentile per-packet one-way delay: 98.668 ms

Loss rate: 0.66%

-- Flow 2:

Average throughput: 117.48 Mbit/s

95th percentile per-packet one-way delay: 100.903 ms

Loss rate: 0.94%

-- Flow 3:

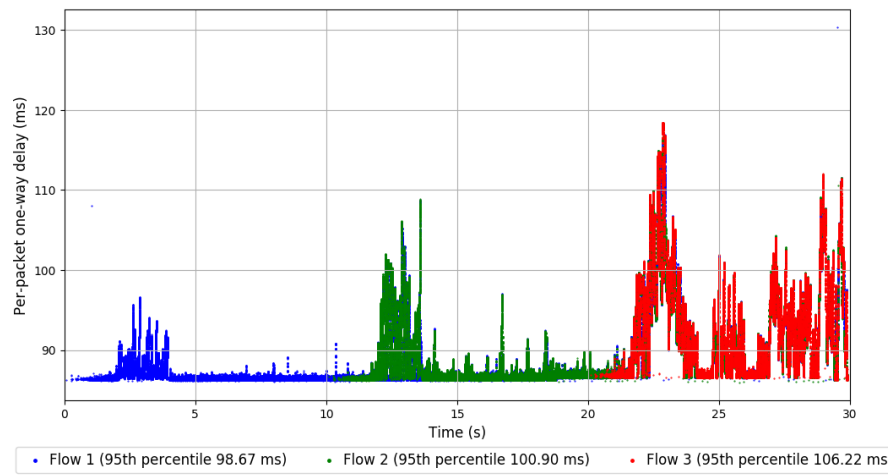
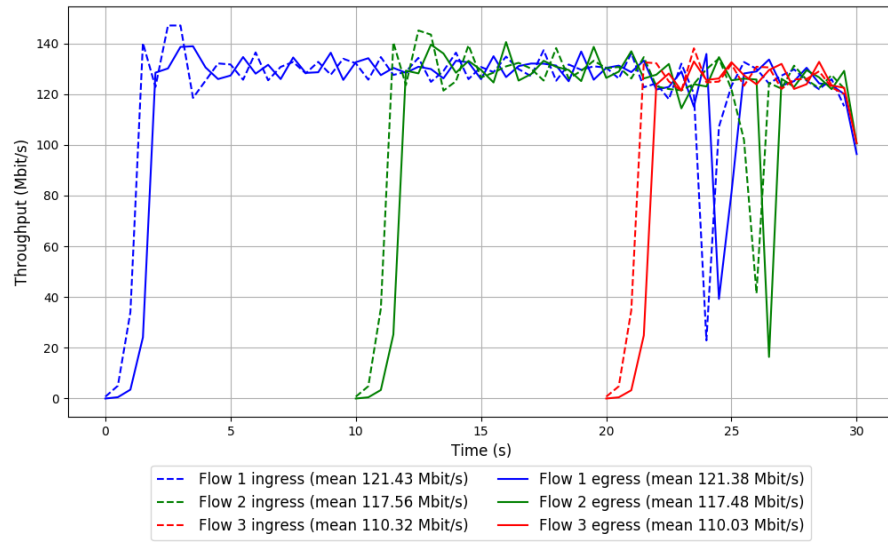
Average throughput: 110.03 Mbit/s

95th percentile per-packet one-way delay: 106.223 ms

Loss rate: 1.99%



# Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-07-04 03:55:26

End at: 2018-07-04 03:55:56

Local clock offset: -0.232 ms

Remote clock offset: 0.055 ms

# Below is generated by plot.py at 2018-07-04 07:50:46

# Datalink statistics

-- Total of 3 flows:

Average throughput: 241.02 Mbit/s

95th percentile per-packet one-way delay: 100.570 ms

Loss rate: 0.96%

-- Flow 1:

Average throughput: 123.88 Mbit/s

95th percentile per-packet one-way delay: 97.470 ms

Loss rate: 0.60%

-- Flow 2:

Average throughput: 121.63 Mbit/s

95th percentile per-packet one-way delay: 99.576 ms

Loss rate: 0.97%

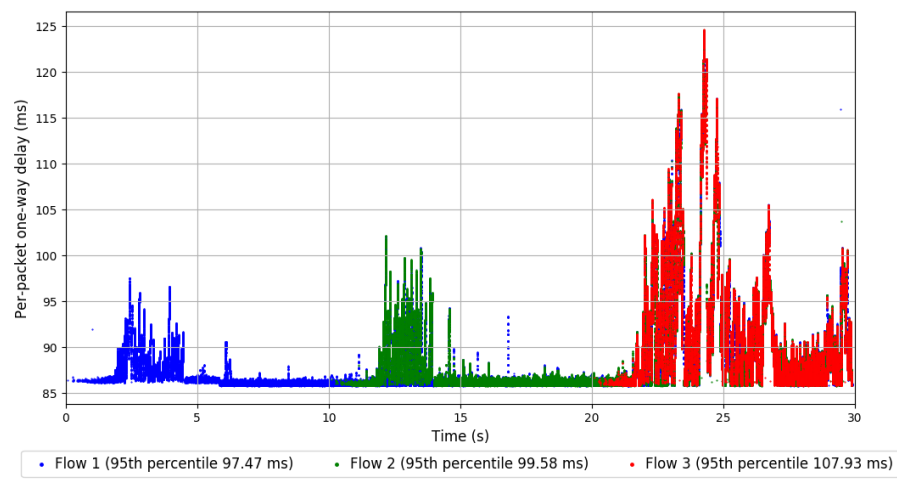
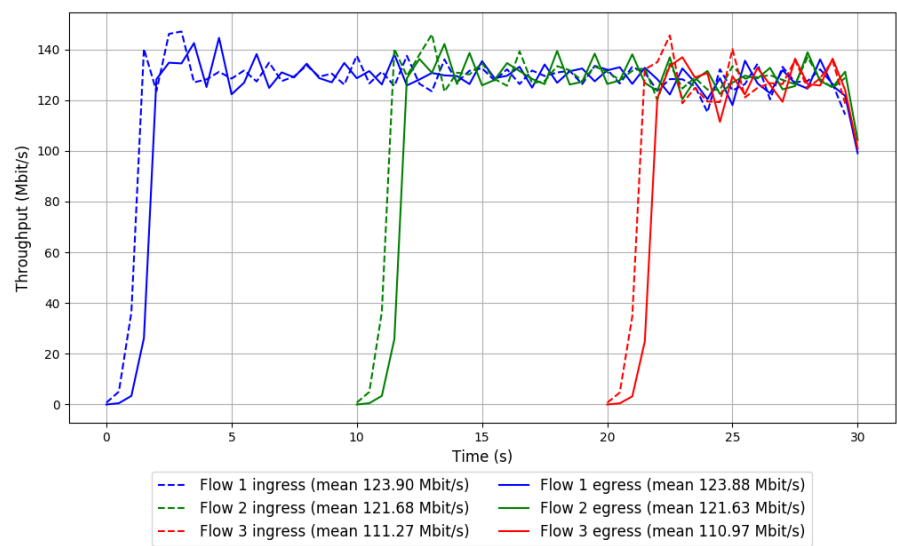
-- Flow 3:

Average throughput: 110.97 Mbit/s

95th percentile per-packet one-way delay: 107.931 ms

Loss rate: 2.14%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-07-04 04:20:19

End at: 2018-07-04 04:20:49

Local clock offset: 0.071 ms

Remote clock offset: 0.127 ms

# Below is generated by plot.py at 2018-07-04 07:50:46

# Datalink statistics

-- Total of 3 flows:

Average throughput: 235.49 Mbit/s

95th percentile per-packet one-way delay: 110.054 ms

Loss rate: 0.95%

-- Flow 1:

Average throughput: 121.28 Mbit/s

95th percentile per-packet one-way delay: 104.585 ms

Loss rate: 0.66%

-- Flow 2:

Average throughput: 118.37 Mbit/s

95th percentile per-packet one-way delay: 108.801 ms

Loss rate: 0.92%

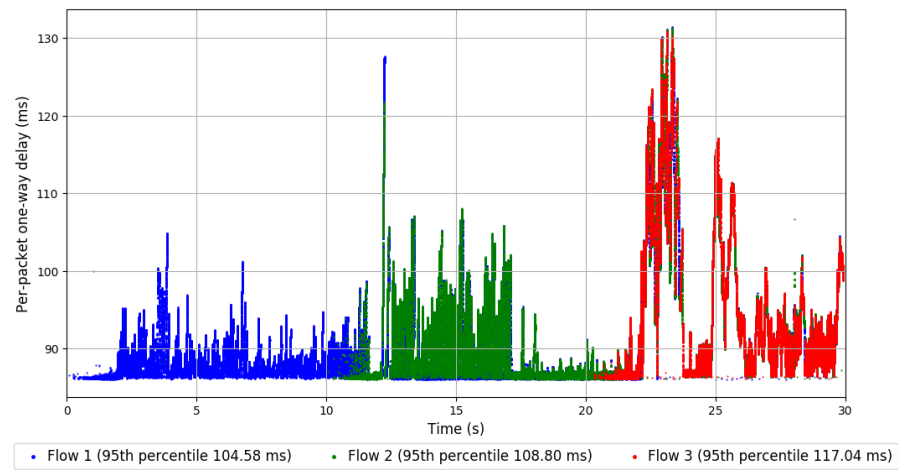
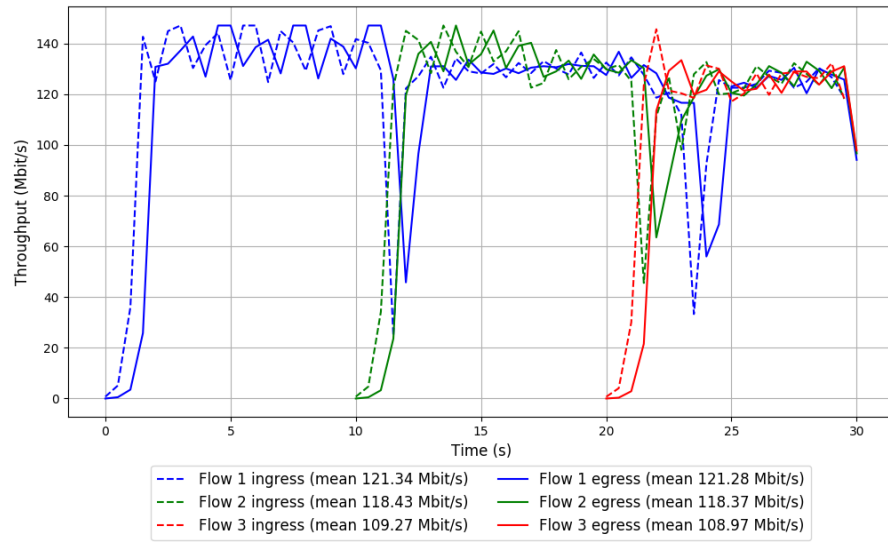
-- Flow 3:

Average throughput: 108.97 Mbit/s

95th percentile per-packet one-way delay: 117.039 ms

Loss rate: 2.01%

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



Run 4: Statistics of TCP BBR

Start at: 2018-07-04 04:45:11

End at: 2018-07-04 04:45:41

Local clock offset: 0.06 ms

Remote clock offset: 0.012 ms

# Below is generated by plot.py at 2018-07-04 07:50:46

# Datalink statistics

-- Total of 3 flows:

Average throughput: 234.24 Mbit/s

95th percentile per-packet one-way delay: 104.926 ms

Loss rate: 0.95%

-- Flow 1:

Average throughput: 121.30 Mbit/s

95th percentile per-packet one-way delay: 103.881 ms

Loss rate: 0.63%

-- Flow 2:

Average throughput: 116.24 Mbit/s

95th percentile per-packet one-way delay: 104.515 ms

Loss rate: 0.96%

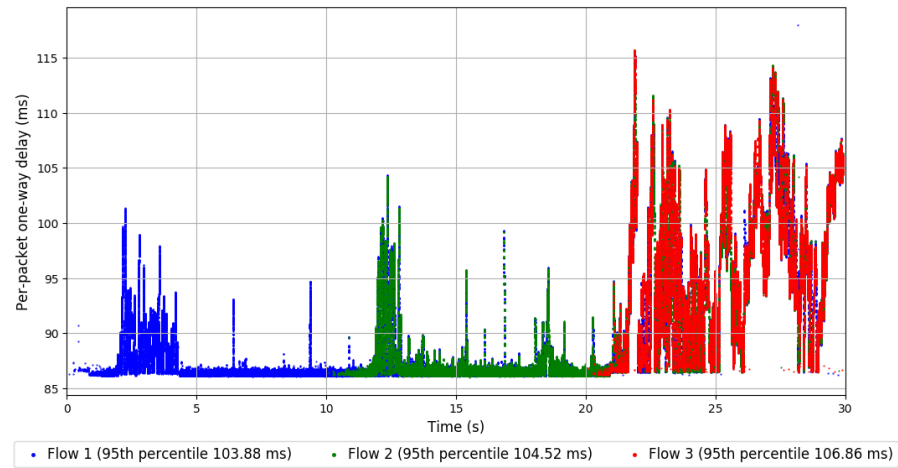
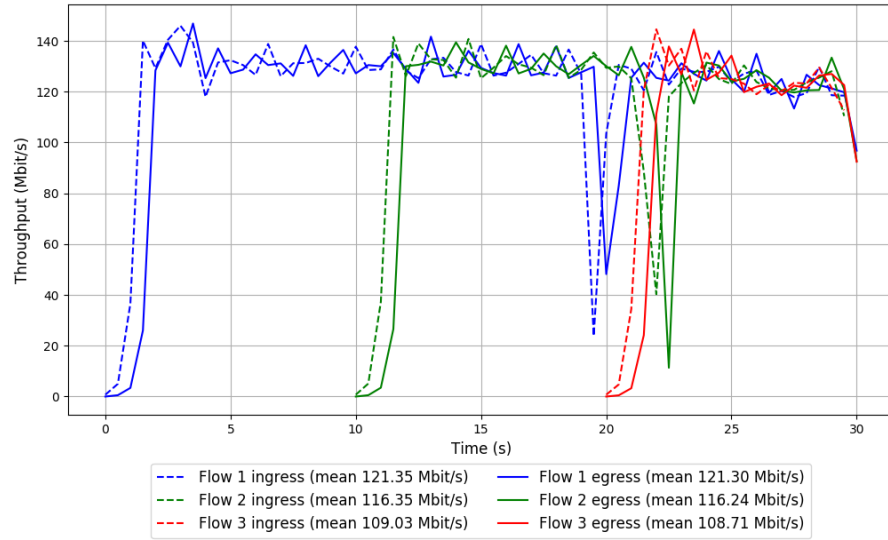
-- Flow 3:

Average throughput: 108.71 Mbit/s

95th percentile per-packet one-way delay: 106.861 ms

Loss rate: 2.02%

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



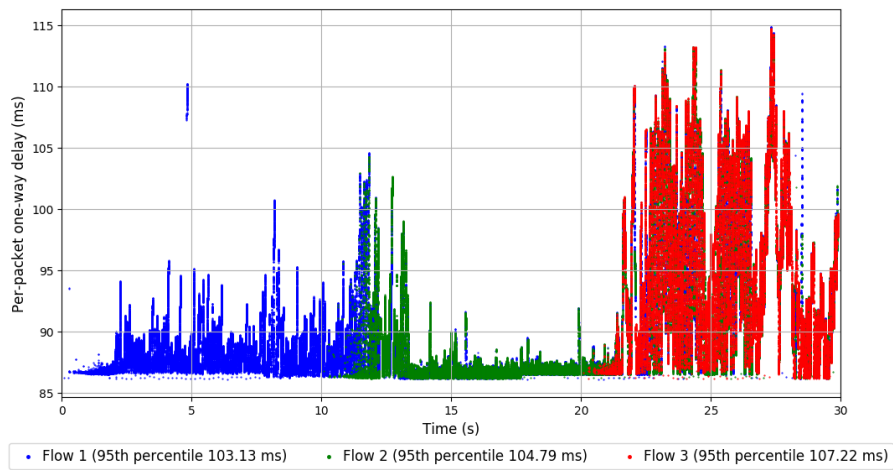
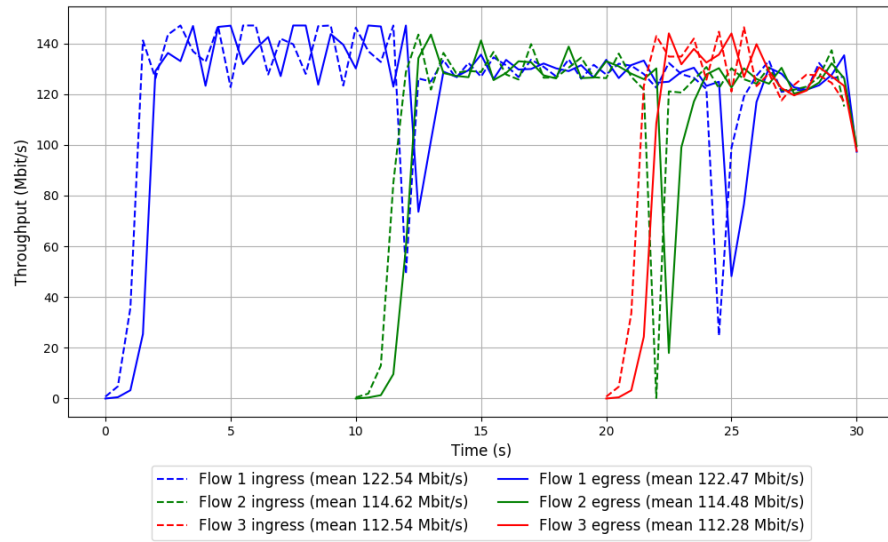
Run 5: Statistics of TCP BBR

Start at: 2018-07-04 05:09:55  
End at: 2018-07-04 05:10:25  
Local clock offset: 0.107 ms  
Remote clock offset: -0.074 ms

# Below is generated by plot.py at 2018-07-04 07:50:46  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 235.36 Mbit/s  
95th percentile per-packet one-way delay: 104.852 ms  
Loss rate: 0.97%  
-- Flow 1:  
Average throughput: 122.47 Mbit/s  
95th percentile per-packet one-way delay: 103.134 ms  
Loss rate: 0.65%  
-- Flow 2:  
Average throughput: 114.48 Mbit/s  
95th percentile per-packet one-way delay: 104.792 ms  
Loss rate: 0.98%  
-- Flow 3:  
Average throughput: 112.28 Mbit/s  
95th percentile per-packet one-way delay: 107.221 ms  
Loss rate: 1.96%



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

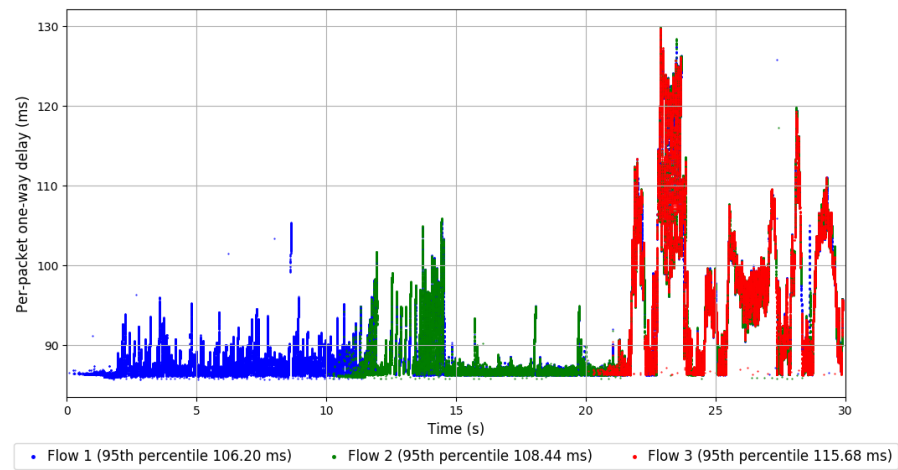
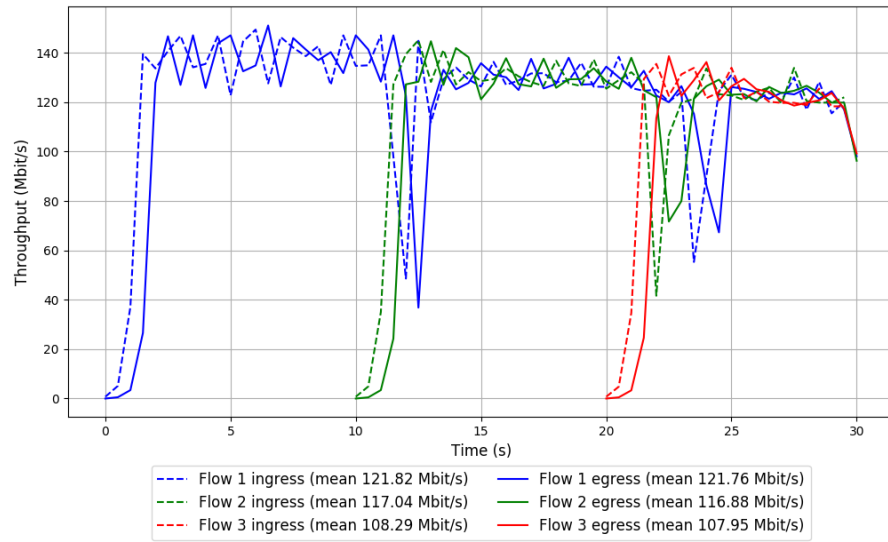


Run 6: Statistics of TCP BBR

Start at: 2018-07-04 05:34:51  
End at: 2018-07-04 05:35:21  
Local clock offset: 0.043 ms  
Remote clock offset: -0.011 ms

# Below is generated by plot.py at 2018-07-04 07:50:46  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 234.82 Mbit/s  
95th percentile per-packet one-way delay: 108.610 ms  
Loss rate: 0.99%  
-- Flow 1:  
Average throughput: 121.76 Mbit/s  
95th percentile per-packet one-way delay: 106.202 ms  
Loss rate: 0.63%  
-- Flow 2:  
Average throughput: 116.88 Mbit/s  
95th percentile per-packet one-way delay: 108.441 ms  
Loss rate: 1.05%  
-- Flow 3:  
Average throughput: 107.95 Mbit/s  
95th percentile per-packet one-way delay: 115.684 ms  
Loss rate: 2.06%

# Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-07-04 05:59:37

End at: 2018-07-04 06:00:07

Local clock offset: -0.016 ms

Remote clock offset: 0.066 ms

# Below is generated by plot.py at 2018-07-04 07:50:46

# Datalink statistics

-- Total of 3 flows:

Average throughput: 235.44 Mbit/s

95th percentile per-packet one-way delay: 105.596 ms

Loss rate: 0.97%

-- Flow 1:

Average throughput: 121.93 Mbit/s

95th percentile per-packet one-way delay: 102.860 ms

Loss rate: 0.59%

-- Flow 2:

Average throughput: 116.92 Mbit/s

95th percentile per-packet one-way delay: 105.055 ms

Loss rate: 1.03%

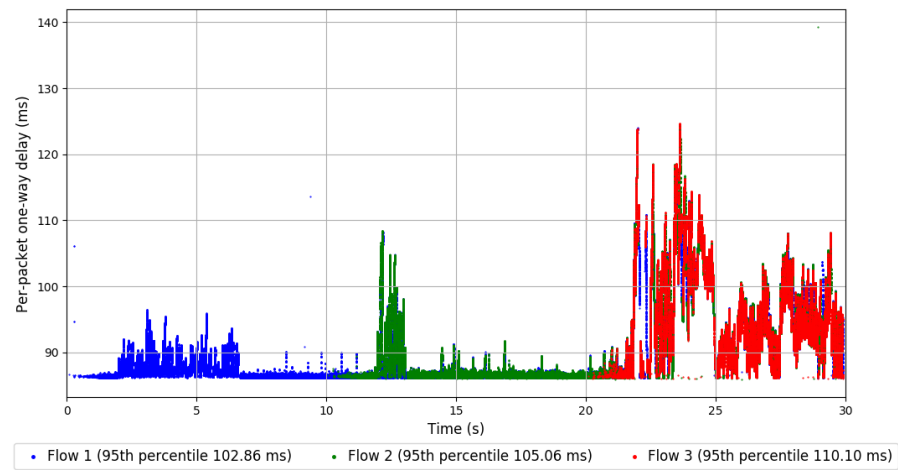
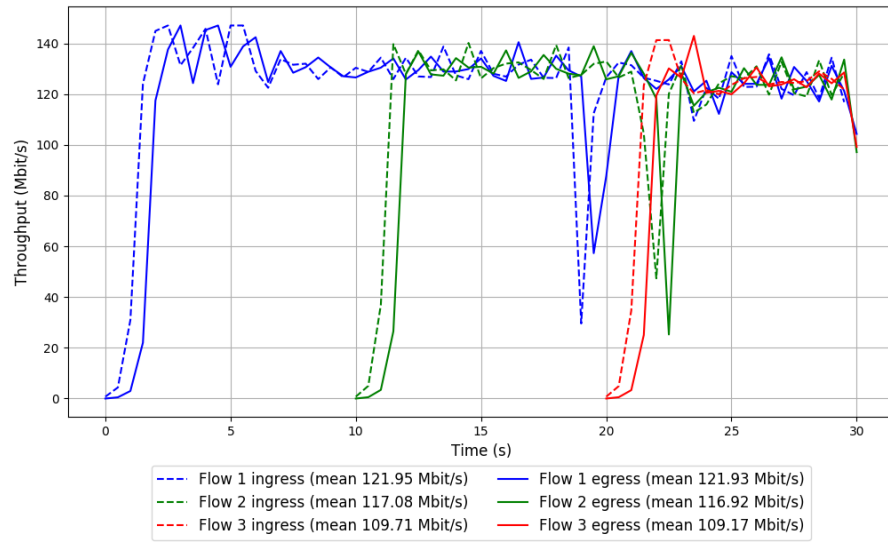
-- Flow 3:

Average throughput: 109.17 Mbit/s

95th percentile per-packet one-way delay: 110.102 ms

Loss rate: 2.11%

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



Run 8: Statistics of TCP BBR

Start at: 2018-07-04 06:24:08

End at: 2018-07-04 06:24:38

Local clock offset: -0.036 ms

Remote clock offset: 0.123 ms

# Below is generated by plot.py at 2018-07-04 07:50:46

# Datalink statistics

-- Total of 3 flows:

Average throughput: 235.23 Mbit/s

95th percentile per-packet one-way delay: 101.861 ms

Loss rate: 0.98%

-- Flow 1:

Average throughput: 122.31 Mbit/s

95th percentile per-packet one-way delay: 100.082 ms

Loss rate: 0.64%

-- Flow 2:

Average throughput: 115.89 Mbit/s

95th percentile per-packet one-way delay: 100.412 ms

Loss rate: 1.00%

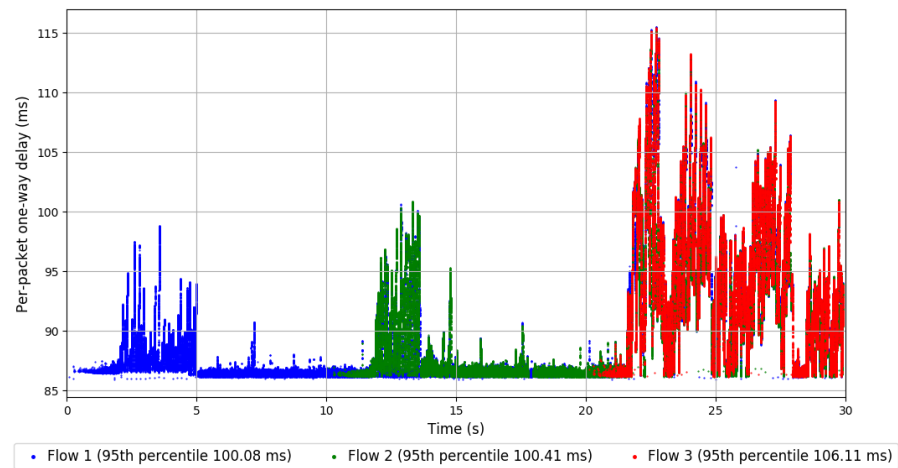
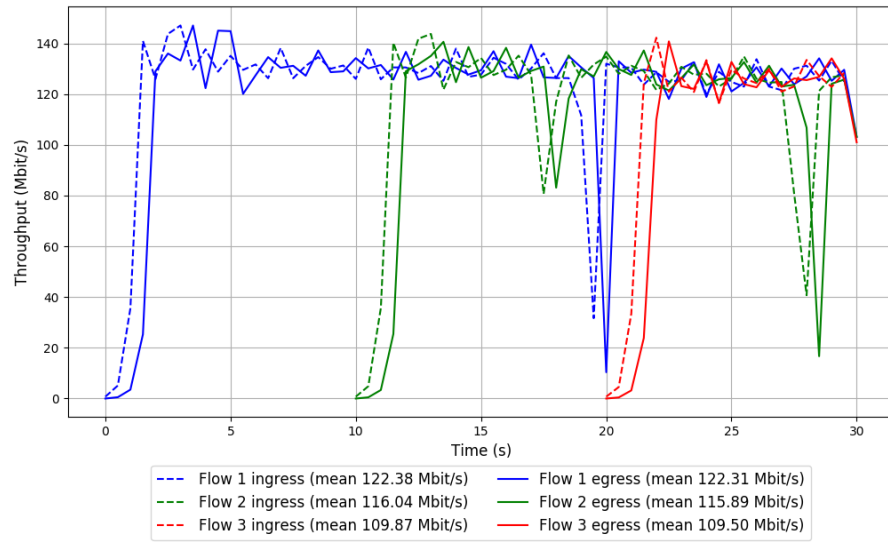
-- Flow 3:

Average throughput: 109.50 Mbit/s

95th percentile per-packet one-way delay: 106.106 ms

Loss rate: 2.07%

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



Run 9: Statistics of TCP BBR

Start at: 2018-07-04 06:48:29

End at: 2018-07-04 06:48:59

Local clock offset: -0.008 ms

Remote clock offset: 0.178 ms

# Below is generated by plot.py at 2018-07-04 07:54:27

# Datalink statistics

-- Total of 3 flows:

Average throughput: 235.84 Mbit/s

95th percentile per-packet one-way delay: 110.359 ms

Loss rate: 0.71%

-- Flow 1:

Average throughput: 123.01 Mbit/s

95th percentile per-packet one-way delay: 108.134 ms

Loss rate: 0.60%

-- Flow 2:

Average throughput: 117.49 Mbit/s

95th percentile per-packet one-way delay: 110.599 ms

Loss rate: 0.17%

-- Flow 3:

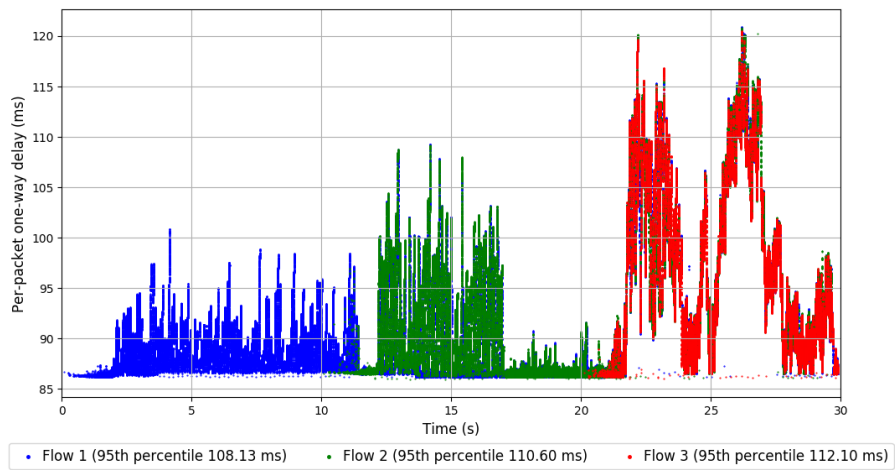
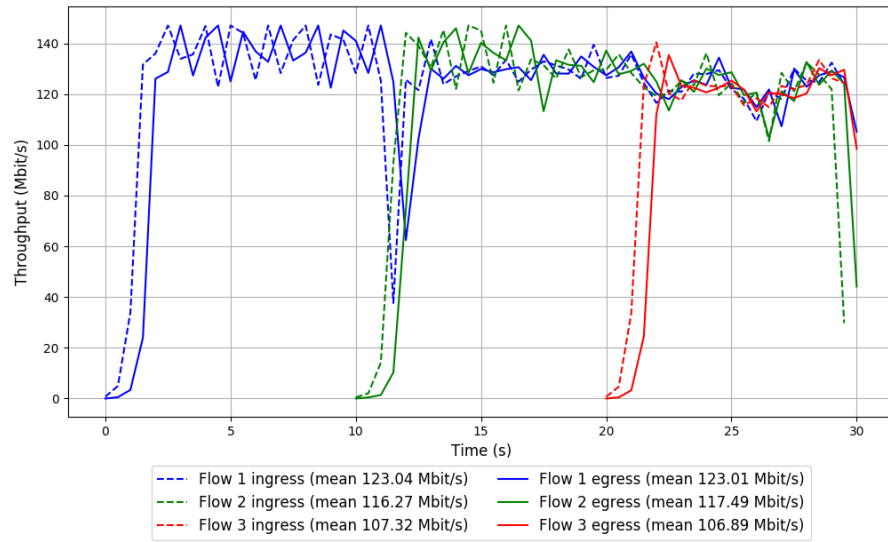
Average throughput: 106.89 Mbit/s

95th percentile per-packet one-way delay: 112.098 ms

Loss rate: 2.24%



# Run 9: Report of TCP BBR — Data Link

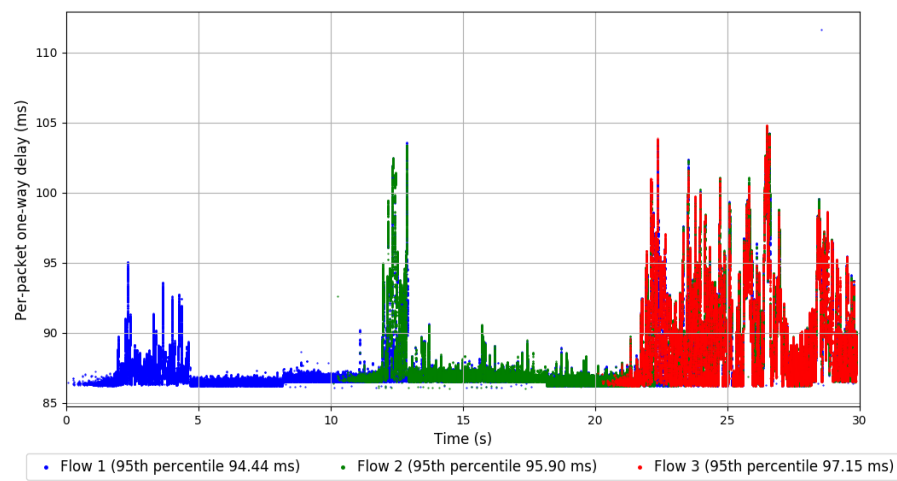
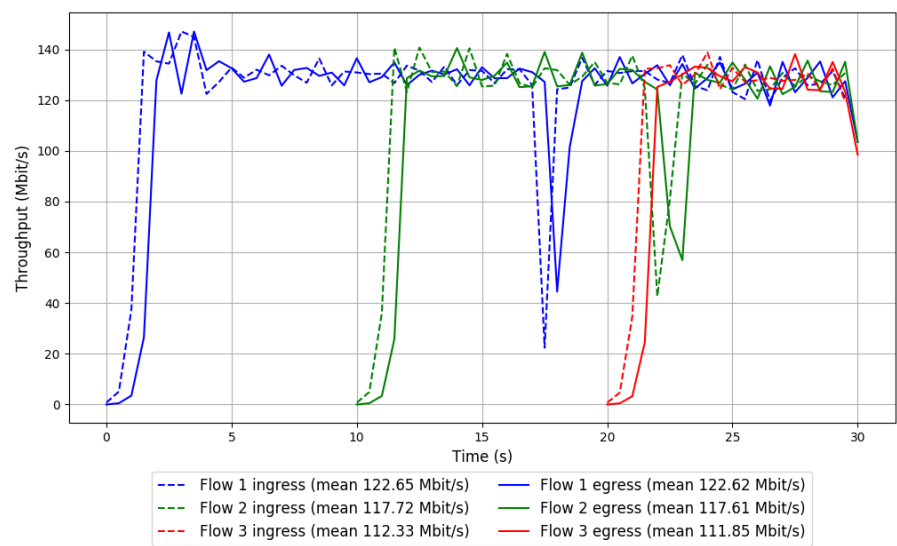


Run 10: Statistics of TCP BBR

Start at: 2018-07-04 07:13:24  
End at: 2018-07-04 07:13:54  
Local clock offset: 0.047 ms  
Remote clock offset: -0.042 ms

# Below is generated by plot.py at 2018-07-04 07:54:31  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 237.46 Mbit/s  
95th percentile per-packet one-way delay: 95.483 ms  
Loss rate: 0.96%  
-- Flow 1:  
Average throughput: 122.62 Mbit/s  
95th percentile per-packet one-way delay: 94.441 ms  
Loss rate: 0.60%  
-- Flow 2:  
Average throughput: 117.61 Mbit/s  
95th percentile per-packet one-way delay: 95.898 ms  
Loss rate: 0.97%  
-- Flow 3:  
Average throughput: 111.85 Mbit/s  
95th percentile per-packet one-way delay: 97.154 ms  
Loss rate: 2.10%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2018-07-04 03:36:12

End at: 2018-07-04 03:36:42

Local clock offset: -0.145 ms

Remote clock offset: 0.025 ms

# Below is generated by plot.py at 2018-07-04 07:55:16

# Datalink statistics

-- Total of 3 flows:

Average throughput: 146.54 Mbit/s

95th percentile per-packet one-way delay: 93.479 ms

Loss rate: 0.25%

-- Flow 1:

Average throughput: 84.52 Mbit/s

95th percentile per-packet one-way delay: 90.970 ms

Loss rate: 0.24%

-- Flow 2:

Average throughput: 85.09 Mbit/s

95th percentile per-packet one-way delay: 94.528 ms

Loss rate: 0.00%

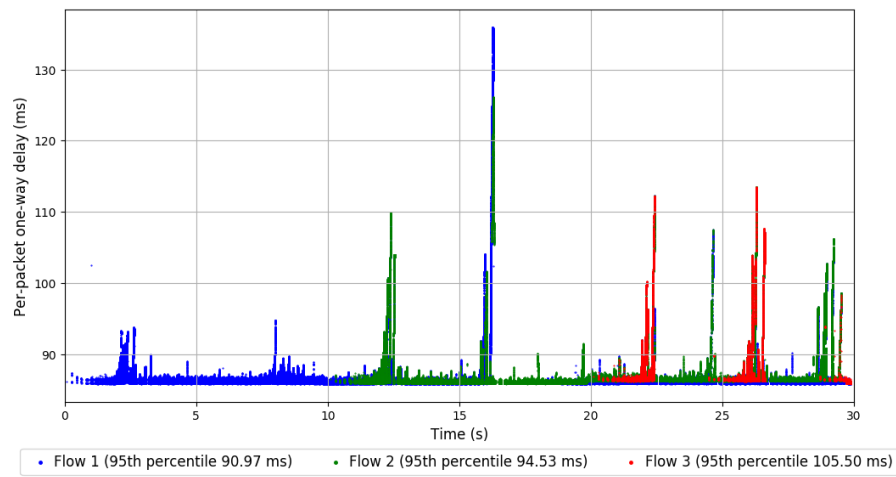
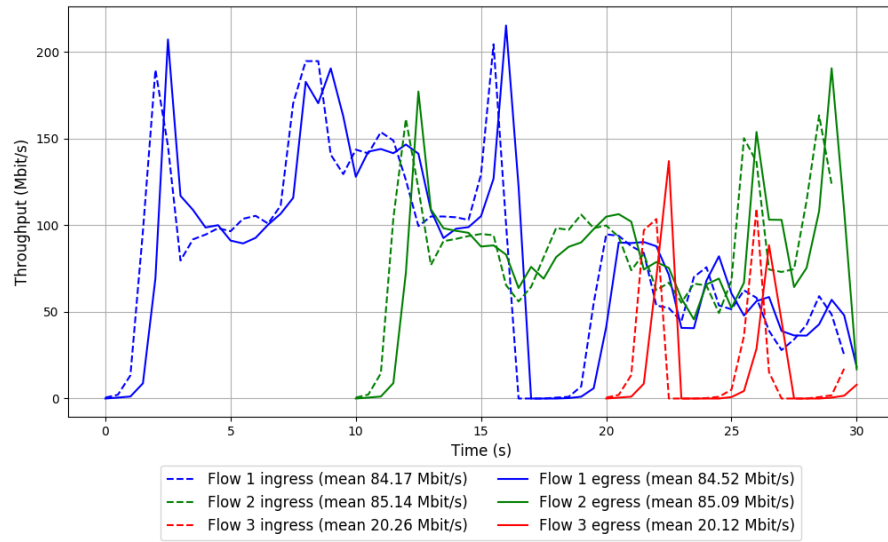
-- Flow 3:

Average throughput: 20.12 Mbit/s

95th percentile per-packet one-way delay: 105.495 ms

Loss rate: 2.41%

## Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

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

End at: 2018-07-04 04:01:31

Local clock offset: 0.031 ms

Remote clock offset: 0.096 ms

# Below is generated by plot.py at 2018-07-04 07:55:55

# Datalink statistics

-- Total of 3 flows:

Average throughput: 165.59 Mbit/s

95th percentile per-packet one-way delay: 97.938 ms

Loss rate: 0.92%

-- Flow 1:

Average throughput: 96.94 Mbit/s

95th percentile per-packet one-way delay: 97.471 ms

Loss rate: 0.93%

-- Flow 2:

Average throughput: 66.01 Mbit/s

95th percentile per-packet one-way delay: 97.315 ms

Loss rate: 1.40%

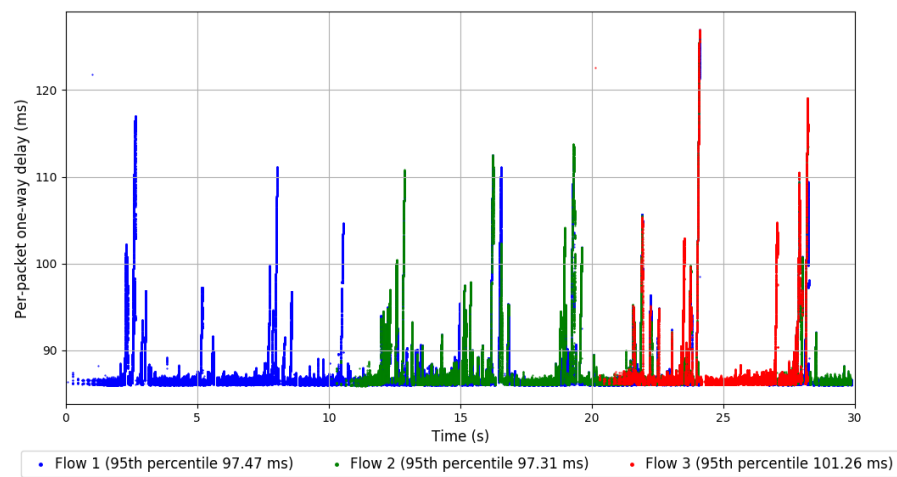
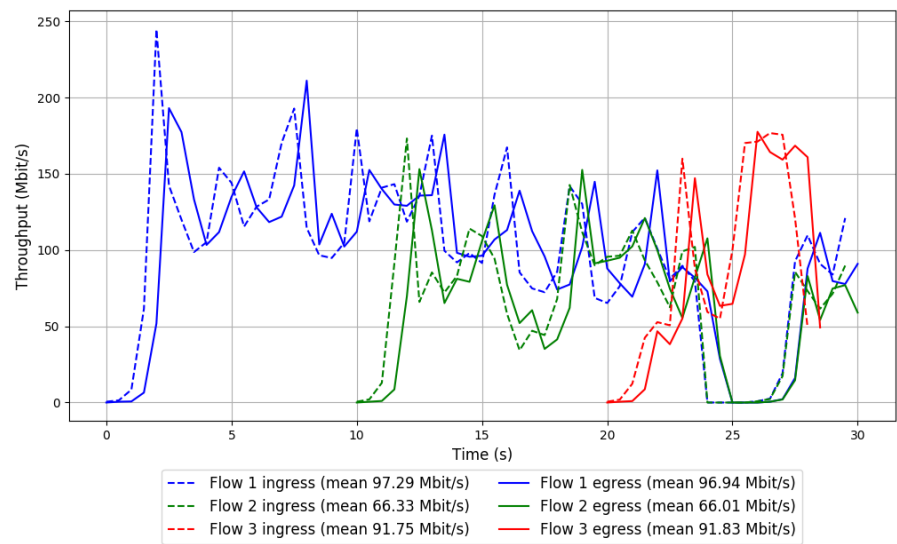
-- Flow 3:

Average throughput: 91.83 Mbit/s

95th percentile per-packet one-way delay: 101.258 ms

Loss rate: 0.00%

Run 2: Report of Copa — Data Link



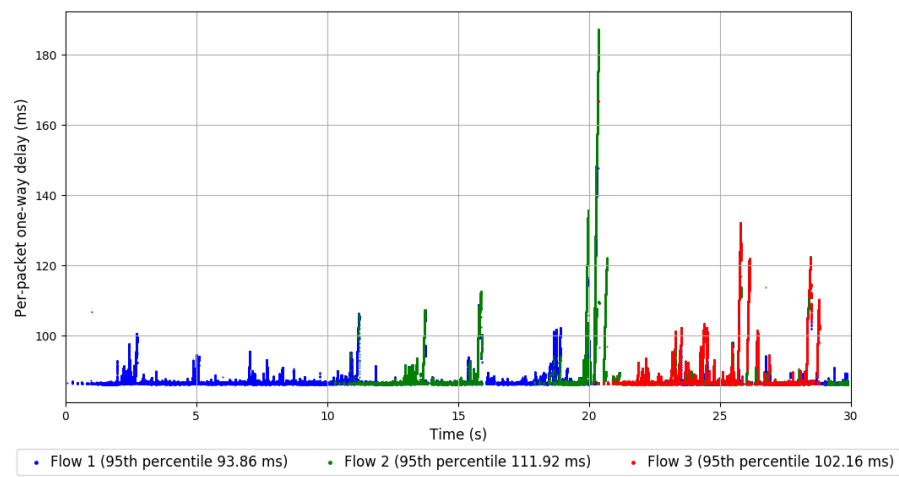
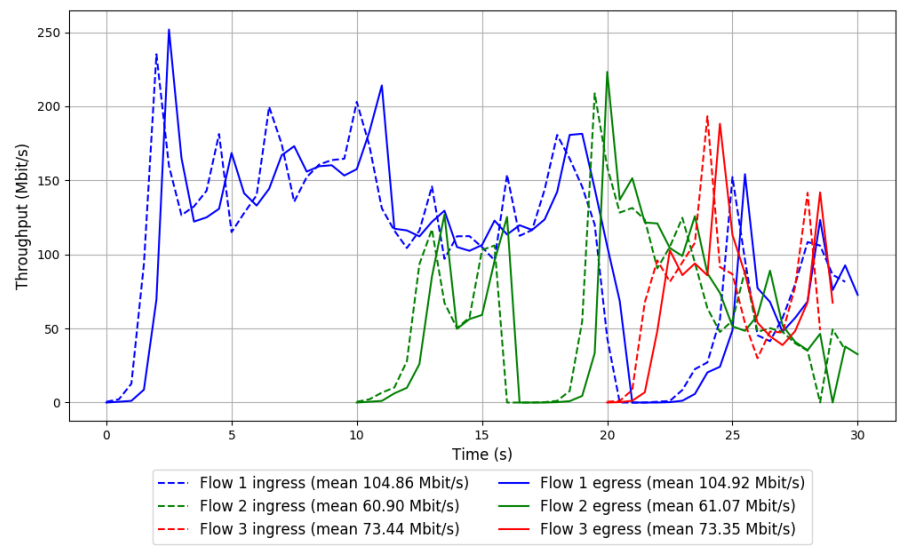
Run 3: Statistics of Copa

Start at: 2018-07-04 04:26:00  
End at: 2018-07-04 04:26:30  
Local clock offset: 0.139 ms  
Remote clock offset: 0.105 ms

# Below is generated by plot.py at 2018-07-04 07:55:59  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 166.86 Mbit/s  
95th percentile per-packet one-way delay: 99.385 ms  
Loss rate: 0.47%  
-- Flow 1:  
Average throughput: 104.92 Mbit/s  
95th percentile per-packet one-way delay: 93.865 ms  
Loss rate: 0.52%  
-- Flow 2:  
Average throughput: 61.07 Mbit/s  
95th percentile per-packet one-way delay: 111.916 ms  
Loss rate: 0.60%  
-- Flow 3:  
Average throughput: 73.35 Mbit/s  
95th percentile per-packet one-way delay: 102.155 ms  
Loss rate: 0.00%



Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-07-04 04:50:52

End at: 2018-07-04 04:51:22

Local clock offset: -0.022 ms

Remote clock offset: 0.016 ms

# Below is generated by plot.py at 2018-07-04 07:56:07

# Datalink statistics

-- Total of 3 flows:

Average throughput: 165.13 Mbit/s

95th percentile per-packet one-way delay: 93.032 ms

Loss rate: 0.75%

-- Flow 1:

Average throughput: 94.18 Mbit/s

95th percentile per-packet one-way delay: 93.718 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 88.60 Mbit/s

95th percentile per-packet one-way delay: 92.372 ms

Loss rate: 1.51%

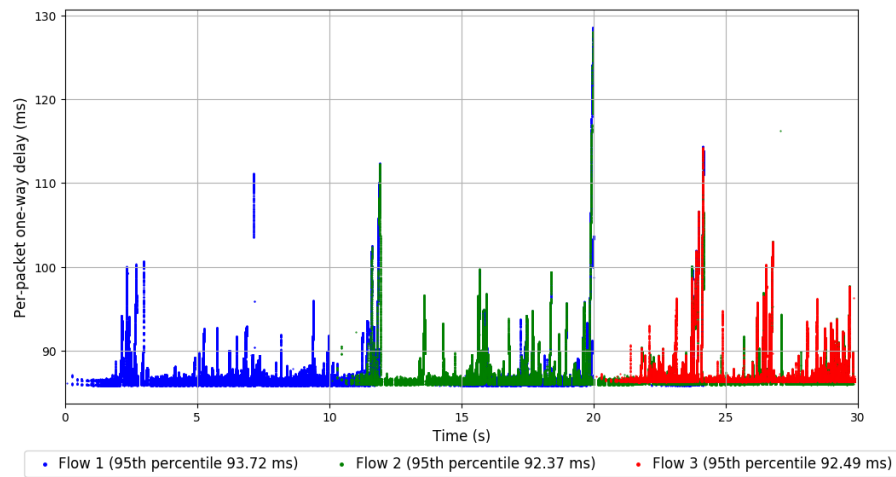
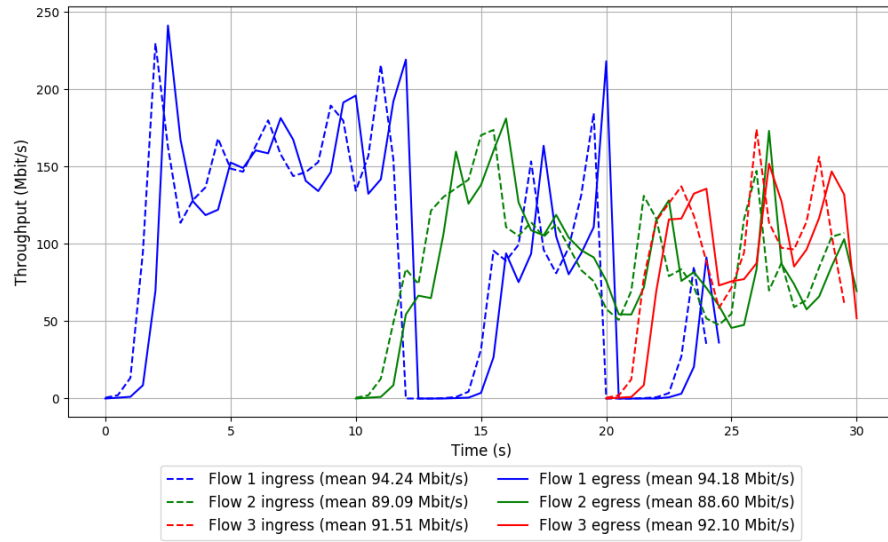
-- Flow 3:

Average throughput: 92.10 Mbit/s

95th percentile per-packet one-way delay: 92.488 ms

Loss rate: 1.11%

# Run 4: Report of Copa — Data Link

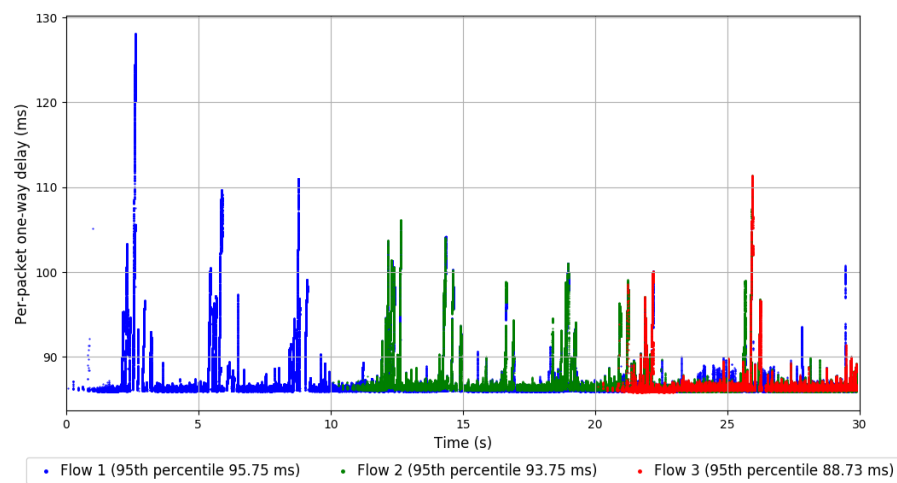
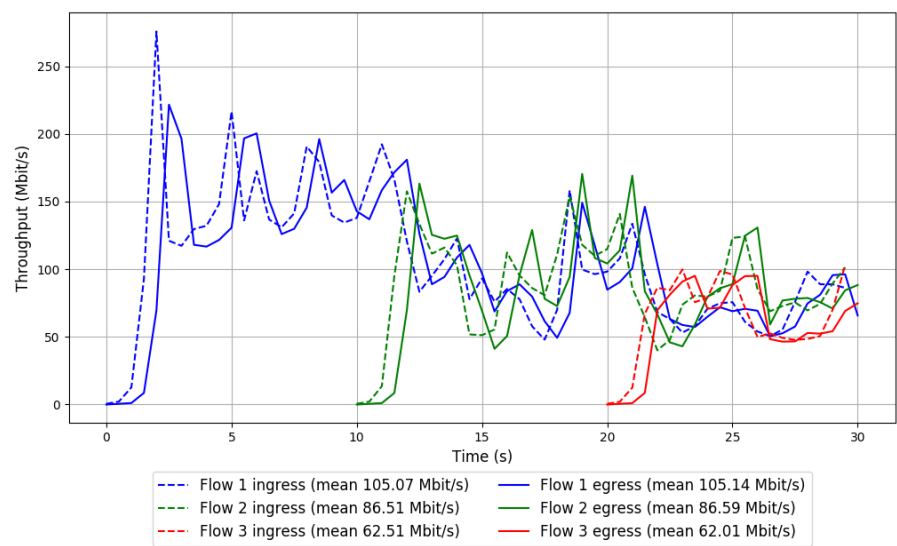


Run 5: Statistics of Copa

Start at: 2018-07-04 05:15:29  
End at: 2018-07-04 05:15:59  
Local clock offset: -0.031 ms  
Remote clock offset: -0.017 ms

# Below is generated by plot.py at 2018-07-04 07:56:40  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 182.99 Mbit/s  
95th percentile per-packet one-way delay: 94.775 ms  
Loss rate: 0.83%  
-- Flow 1:  
Average throughput: 105.14 Mbit/s  
95th percentile per-packet one-way delay: 95.747 ms  
Loss rate: 0.51%  
-- Flow 2:  
Average throughput: 86.59 Mbit/s  
95th percentile per-packet one-way delay: 93.750 ms  
Loss rate: 0.78%  
-- Flow 3:  
Average throughput: 62.01 Mbit/s  
95th percentile per-packet one-way delay: 88.734 ms  
Loss rate: 2.62%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-07-04 05:40:28

End at: 2018-07-04 05:40:58

Local clock offset: 0.213 ms

Remote clock offset: 0.012 ms

# Below is generated by plot.py at 2018-07-04 07:56:40

# Datalink statistics

-- Total of 3 flows:

Average throughput: 156.90 Mbit/s

95th percentile per-packet one-way delay: 93.521 ms

Loss rate: 0.91%

-- Flow 1:

Average throughput: 143.43 Mbit/s

95th percentile per-packet one-way delay: 100.959 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 106.86 Mbit/s

95th percentile per-packet one-way delay: 89.462 ms

Loss rate: 0.55%

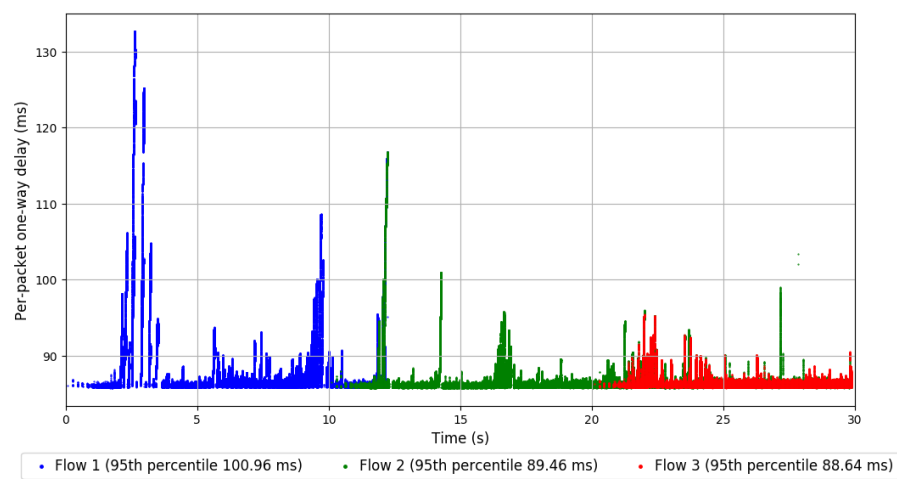
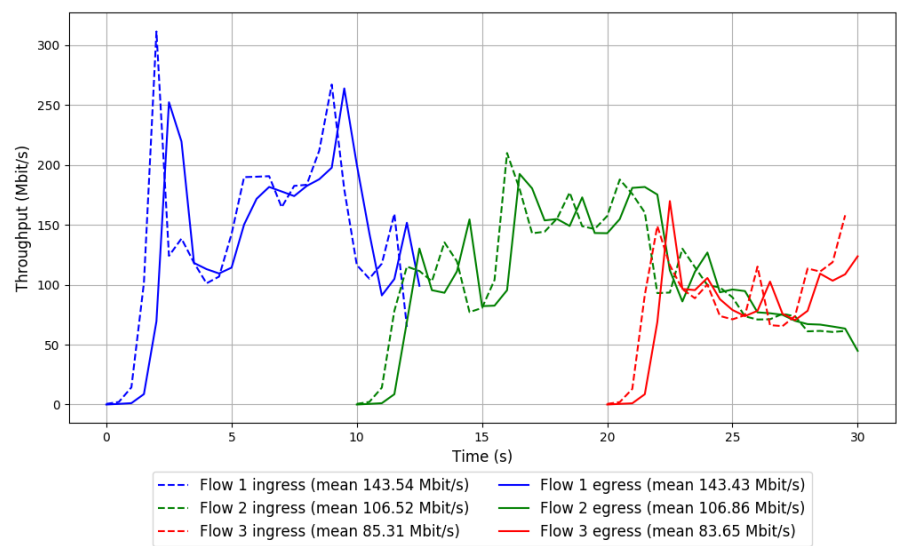
-- Flow 3:

Average throughput: 83.65 Mbit/s

95th percentile per-packet one-way delay: 88.640 ms

Loss rate: 3.64%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-07-04 06:05:15

End at: 2018-07-04 06:05:45

Local clock offset: -0.018 ms

Remote clock offset: 0.096 ms

# Below is generated by plot.py at 2018-07-04 07:59:57

# Datalink statistics

-- Total of 3 flows:

Average throughput: 161.17 Mbit/s

95th percentile per-packet one-way delay: 96.698 ms

Loss rate: 0.35%

-- Flow 1:

Average throughput: 81.50 Mbit/s

95th percentile per-packet one-way delay: 98.173 ms

Loss rate: 0.69%

-- Flow 2:

Average throughput: 96.64 Mbit/s

95th percentile per-packet one-way delay: 95.141 ms

Loss rate: 0.00%

-- Flow 3:

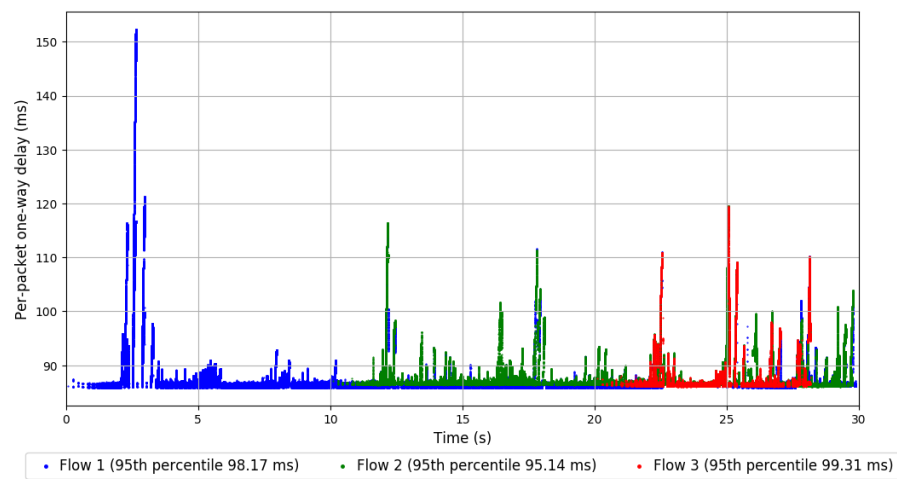
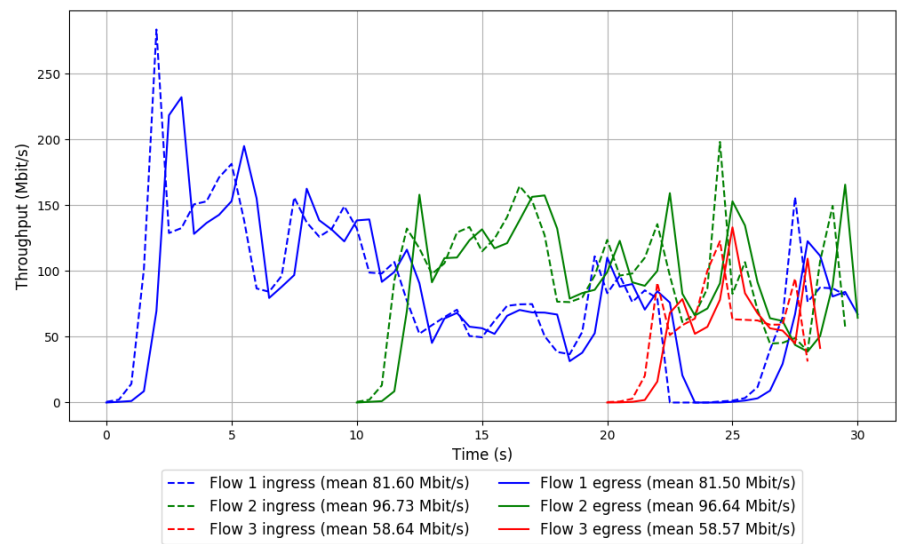
Average throughput: 58.57 Mbit/s

95th percentile per-packet one-way delay: 99.314 ms

Loss rate: 0.02%



Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-07-04 06:29:45

End at: 2018-07-04 06:30:15

Local clock offset: -0.083 ms

Remote clock offset: 0.125 ms

# Below is generated by plot.py at 2018-07-04 08:00:34

# Datalink statistics

-- Total of 3 flows:

Average throughput: 174.80 Mbit/s

95th percentile per-packet one-way delay: 96.759 ms

Loss rate: 0.46%

-- Flow 1:

Average throughput: 89.44 Mbit/s

95th percentile per-packet one-way delay: 90.890 ms

Loss rate: 0.47%

-- Flow 2:

Average throughput: 101.35 Mbit/s

95th percentile per-packet one-way delay: 98.369 ms

Loss rate: 0.00%

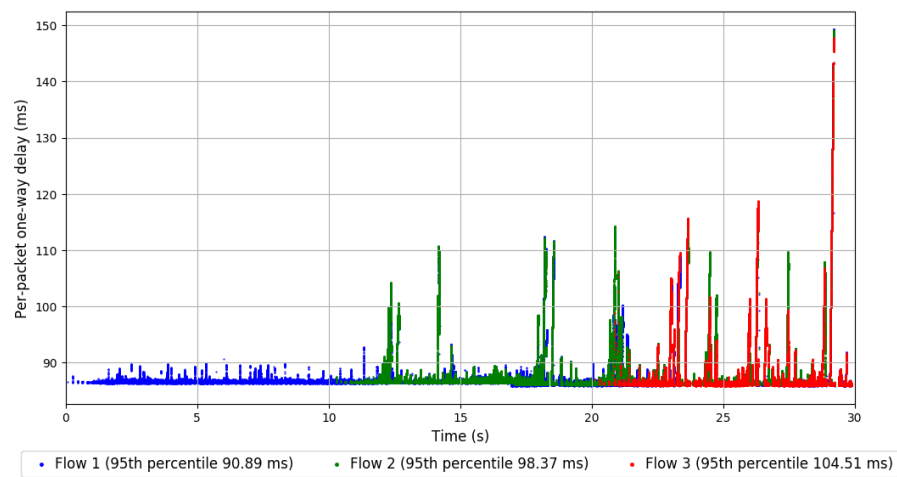
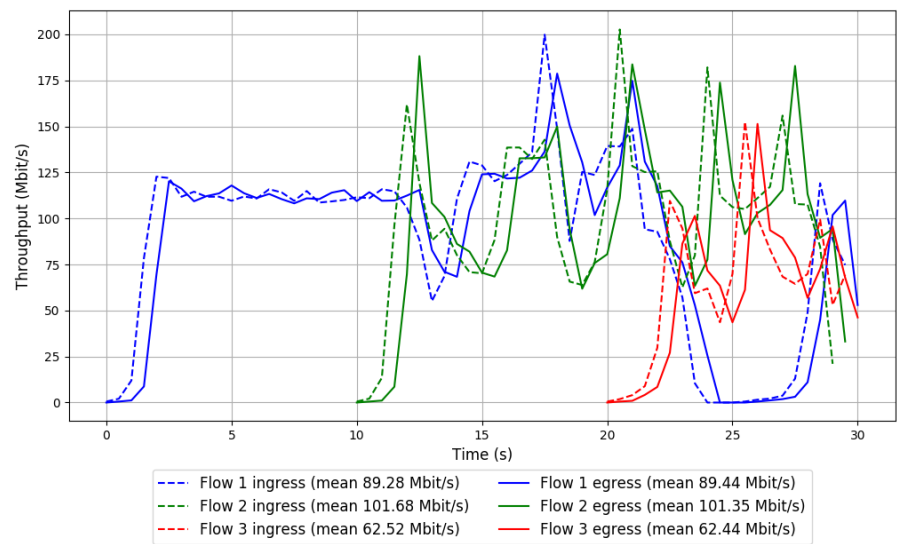
-- Flow 3:

Average throughput: 62.44 Mbit/s

95th percentile per-packet one-way delay: 104.507 ms

Loss rate: 1.86%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-07-04 06:54:05

End at: 2018-07-04 06:54:35

Local clock offset: -0.032 ms

Remote clock offset: 0.146 ms

# Below is generated by plot.py at 2018-07-04 08:00:53

# Datalink statistics

-- Total of 3 flows:

Average throughput: 167.61 Mbit/s

95th percentile per-packet one-way delay: 95.328 ms

Loss rate: 0.67%

-- Flow 1:

Average throughput: 111.72 Mbit/s

95th percentile per-packet one-way delay: 93.309 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 67.36 Mbit/s

95th percentile per-packet one-way delay: 99.341 ms

Loss rate: 1.69%

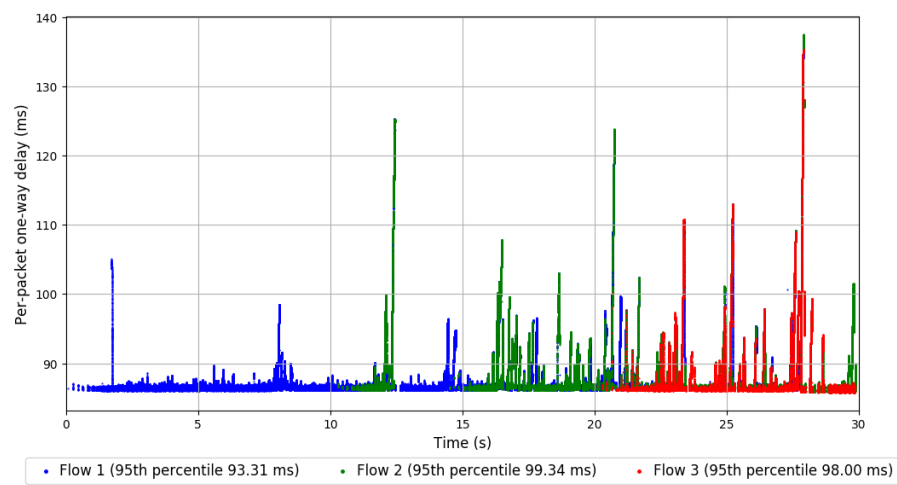
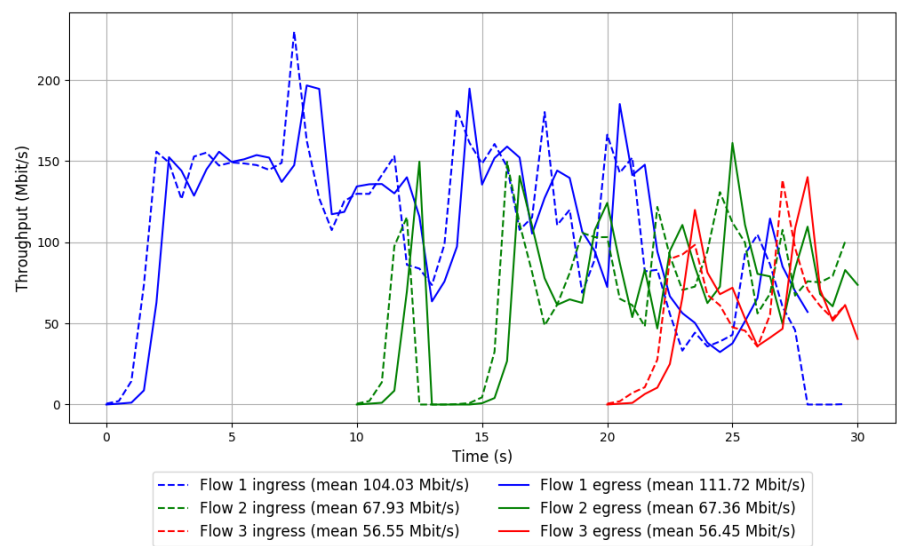
-- Flow 3:

Average throughput: 56.45 Mbit/s

95th percentile per-packet one-way delay: 98.001 ms

Loss rate: 1.94%

Run 9: Report of Copa — Data Link

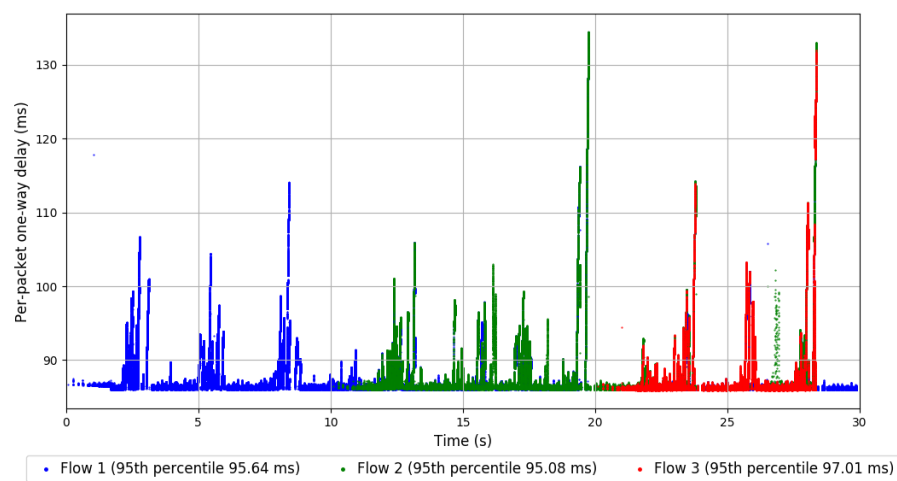
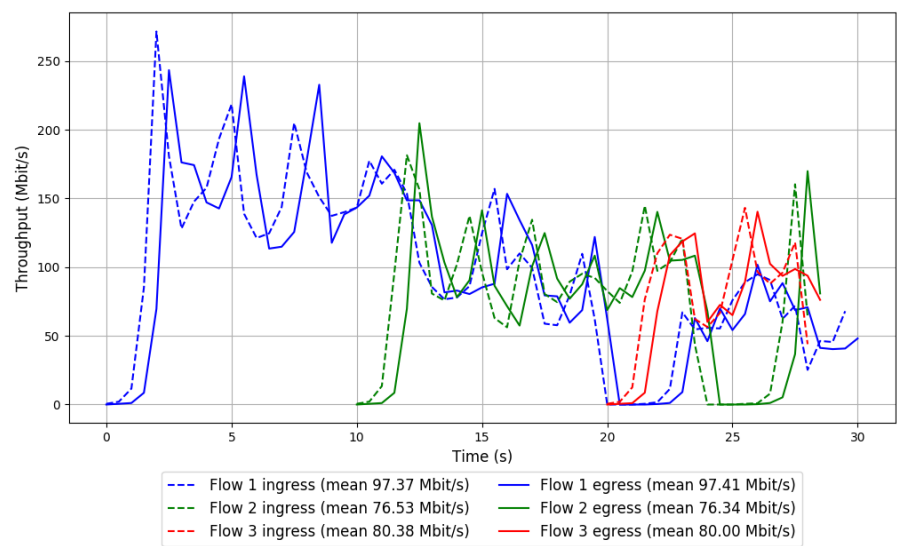


Run 10: Statistics of Copa

Start at: 2018-07-04 07:19:01  
End at: 2018-07-04 07:19:31  
Local clock offset: 0.096 ms  
Remote clock offset: -0.042 ms

# Below is generated by plot.py at 2018-07-04 08:01:31  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 166.40 Mbit/s  
95th percentile per-packet one-way delay: 95.631 ms  
Loss rate: 0.31%  
-- Flow 1:  
Average throughput: 97.41 Mbit/s  
95th percentile per-packet one-way delay: 95.645 ms  
Loss rate: 0.54%  
-- Flow 2:  
Average throughput: 76.34 Mbit/s  
95th percentile per-packet one-way delay: 95.082 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 80.00 Mbit/s  
95th percentile per-packet one-way delay: 97.009 ms  
Loss rate: 0.00%

Run 10: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-07-04 03:31:48

End at: 2018-07-04 03:32:18

Local clock offset: 0.002 ms

Remote clock offset: 0.036 ms

# Below is generated by plot.py at 2018-07-04 08:01:31

# Datalink statistics

-- Total of 3 flows:

Average throughput: 203.41 Mbit/s

95th percentile per-packet one-way delay: 98.867 ms

Loss rate: 0.91%

-- Flow 1:

Average throughput: 120.05 Mbit/s

95th percentile per-packet one-way delay: 99.309 ms

Loss rate: 0.42%

-- Flow 2:

Average throughput: 66.23 Mbit/s

95th percentile per-packet one-way delay: 96.337 ms

Loss rate: 1.21%

-- Flow 3:

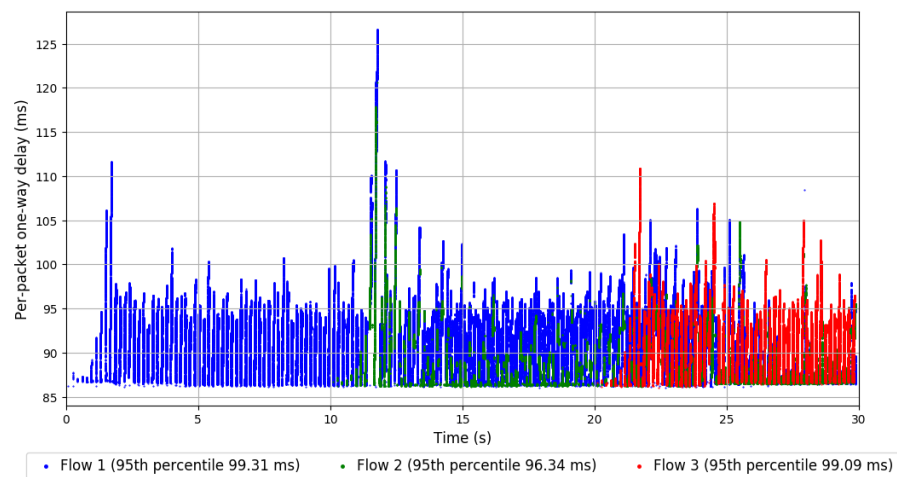
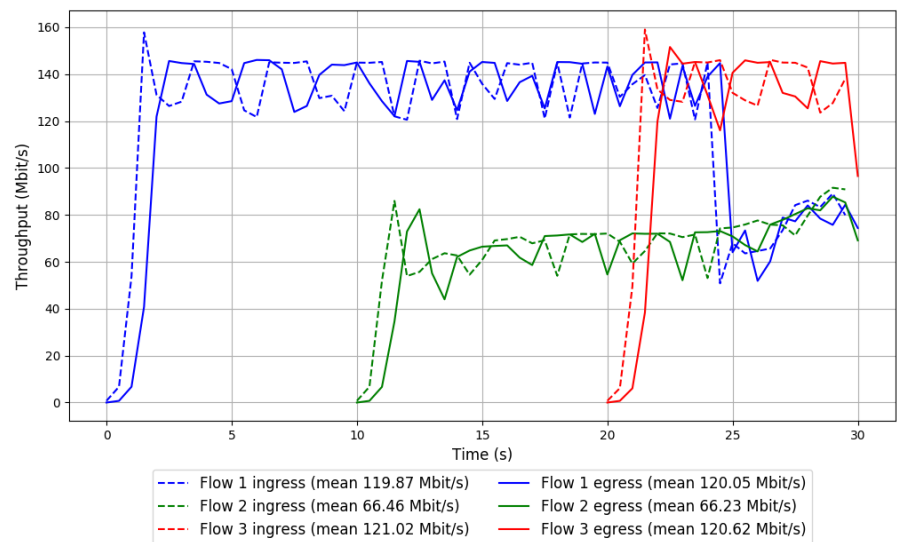
Average throughput: 120.62 Mbit/s

95th percentile per-packet one-way delay: 99.095 ms

Loss rate: 2.03%



Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-07-04 03:56:51

End at: 2018-07-04 03:57:21

Local clock offset: 0.164 ms

Remote clock offset: 0.067 ms

# Below is generated by plot.py at 2018-07-04 08:01:31

# Datalink statistics

-- Total of 3 flows:

Average throughput: 150.05 Mbit/s

95th percentile per-packet one-way delay: 97.962 ms

Loss rate: 0.80%

-- Flow 1:

Average throughput: 63.66 Mbit/s

95th percentile per-packet one-way delay: 96.068 ms

Loss rate: 0.52%

-- Flow 2:

Average throughput: 129.29 Mbit/s

95th percentile per-packet one-way delay: 99.032 ms

Loss rate: 0.94%

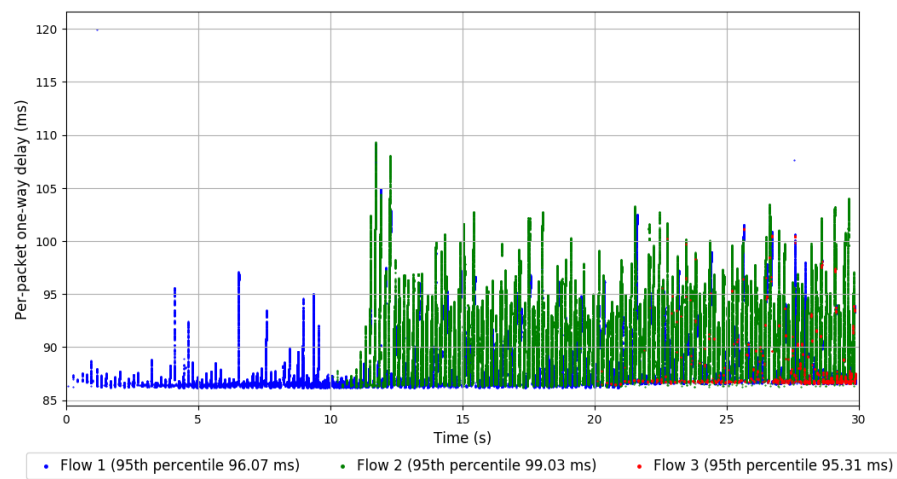
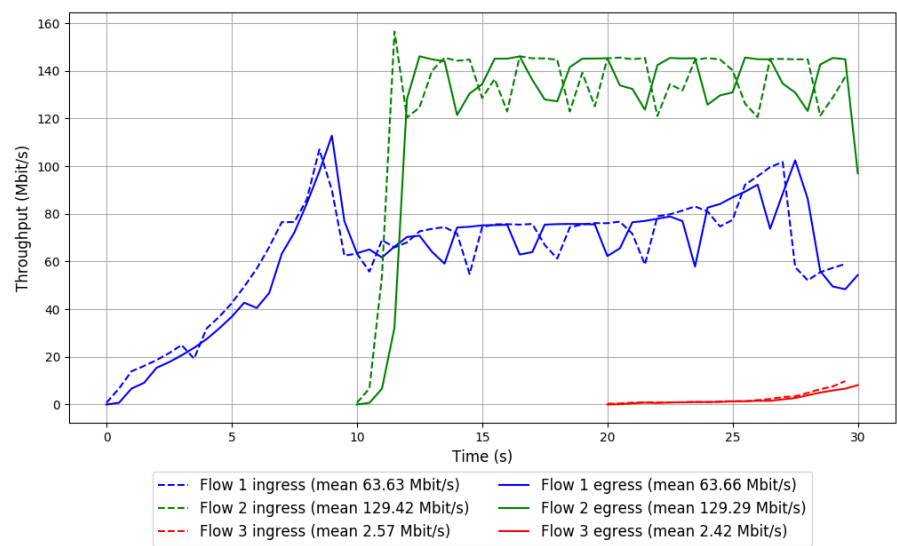
-- Flow 3:

Average throughput: 2.42 Mbit/s

95th percentile per-packet one-way delay: 95.306 ms

Loss rate: 7.33%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-07-04 04:21:44

End at: 2018-07-04 04:22:14

Local clock offset: 0.004 ms

Remote clock offset: 0.108 ms

# Below is generated by plot.py at 2018-07-04 08:01:31

# Datalink statistics

-- Total of 3 flows:

Average throughput: 197.69 Mbit/s

95th percentile per-packet one-way delay: 100.965 ms

Loss rate: 0.96%

-- Flow 1:

Average throughput: 89.22 Mbit/s

95th percentile per-packet one-way delay: 100.120 ms

Loss rate: 0.58%

-- Flow 2:

Average throughput: 128.72 Mbit/s

95th percentile per-packet one-way delay: 101.051 ms

Loss rate: 1.00%

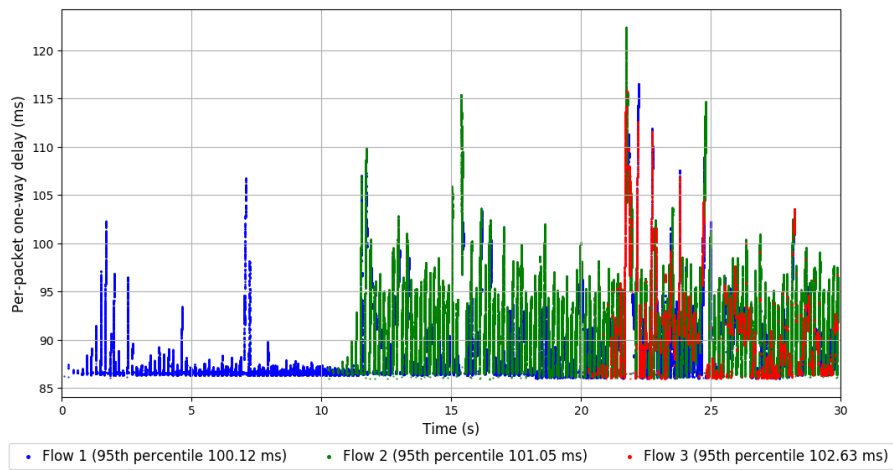
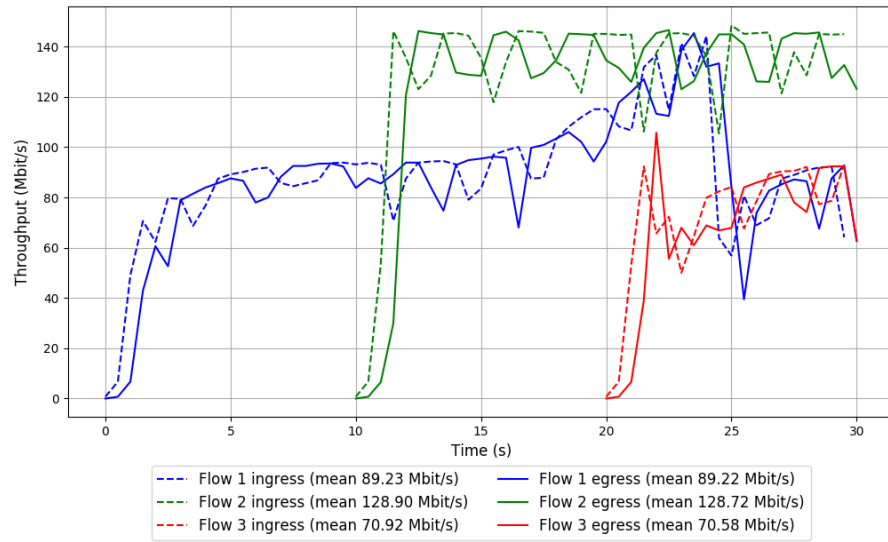
-- Flow 3:

Average throughput: 70.58 Mbit/s

95th percentile per-packet one-way delay: 102.627 ms

Loss rate: 2.21%

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



Run 4: Statistics of TCP Cubic

Start at: 2018-07-04 04:46:36

End at: 2018-07-04 04:47:06

Local clock offset: -0.12 ms

Remote clock offset: 0.037 ms

# Below is generated by plot.py at 2018-07-04 08:01:31

# Datalink statistics

-- Total of 3 flows:

Average throughput: 177.77 Mbit/s

95th percentile per-packet one-way delay: 99.547 ms

Loss rate: 0.96%

-- Flow 1:

Average throughput: 74.72 Mbit/s

95th percentile per-packet one-way delay: 98.492 ms

Loss rate: 0.72%

-- Flow 2:

Average throughput: 111.64 Mbit/s

95th percentile per-packet one-way delay: 100.998 ms

Loss rate: 0.69%

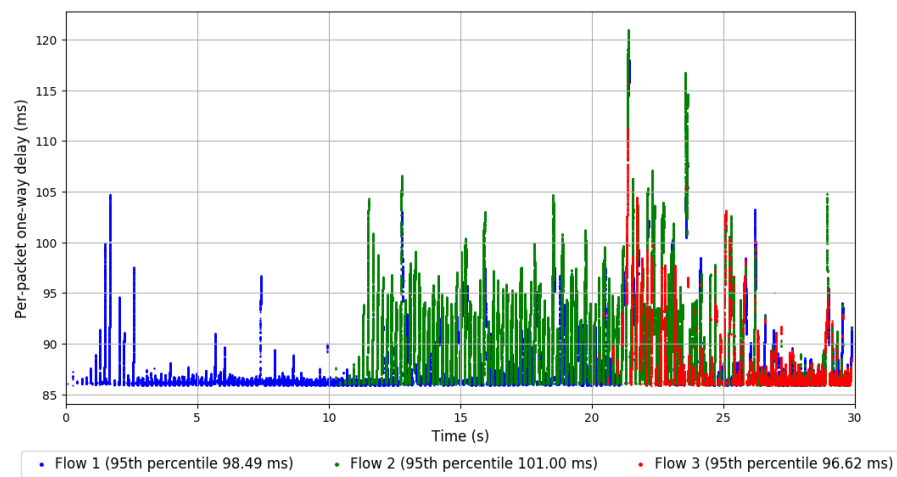
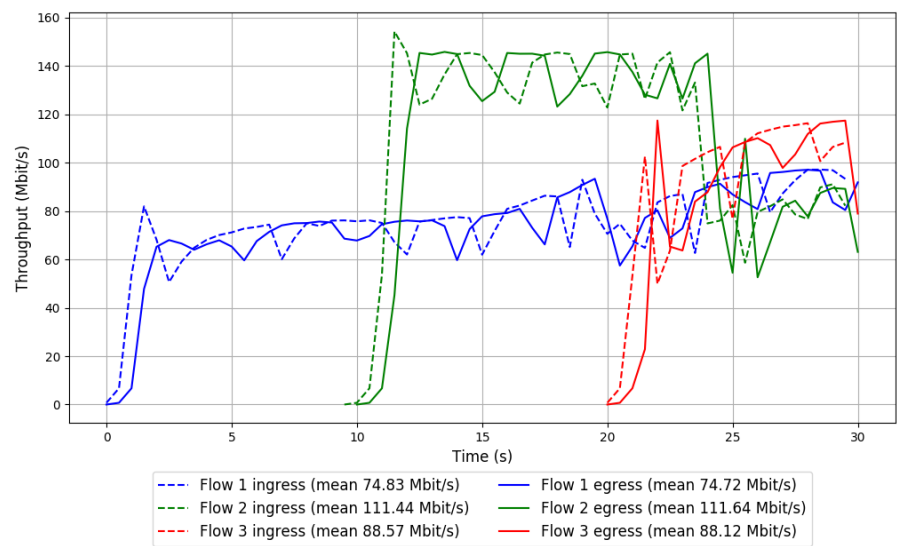
-- Flow 3:

Average throughput: 88.12 Mbit/s

95th percentile per-packet one-way delay: 96.623 ms

Loss rate: 2.24%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-07-04 05:11:19

End at: 2018-07-04 05:11:49

Local clock offset: -0.002 ms

Remote clock offset: -0.08 ms

# Below is generated by plot.py at 2018-07-04 08:01:31

# Datalink statistics

-- Total of 3 flows:

Average throughput: 129.84 Mbit/s

95th percentile per-packet one-way delay: 95.205 ms

Loss rate: 0.83%

-- Flow 1:

Average throughput: 82.44 Mbit/s

95th percentile per-packet one-way delay: 95.007 ms

Loss rate: 0.60%

-- Flow 2:

Average throughput: 70.20 Mbit/s

95th percentile per-packet one-way delay: 95.511 ms

Loss rate: 1.13%

-- Flow 3:

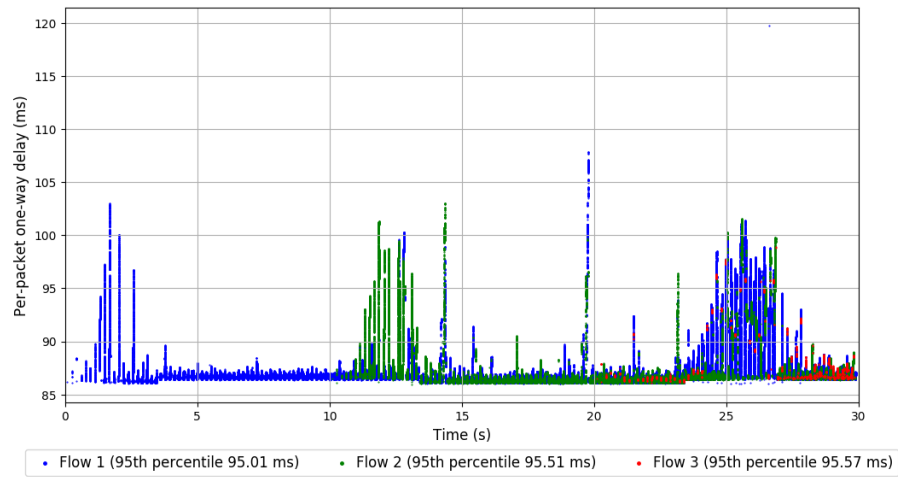
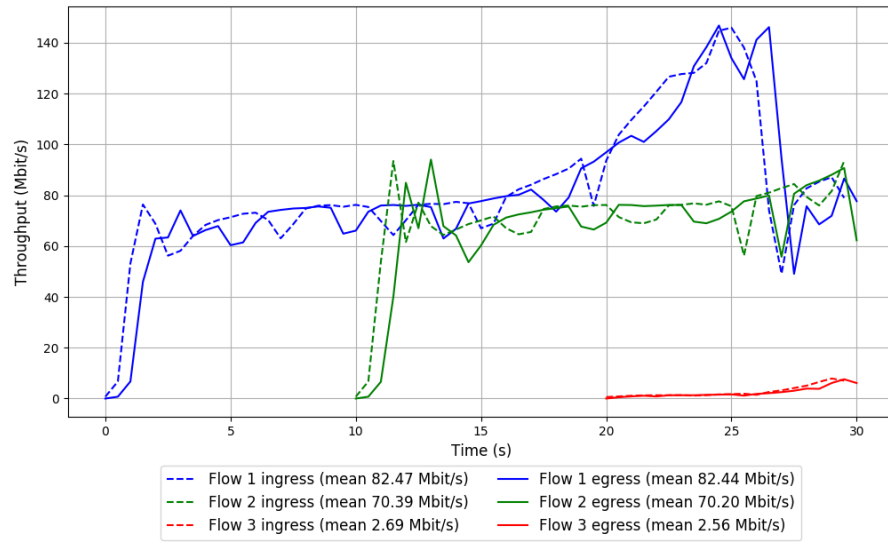
Average throughput: 2.56 Mbit/s

95th percentile per-packet one-way delay: 95.571 ms

Loss rate: 6.43%



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

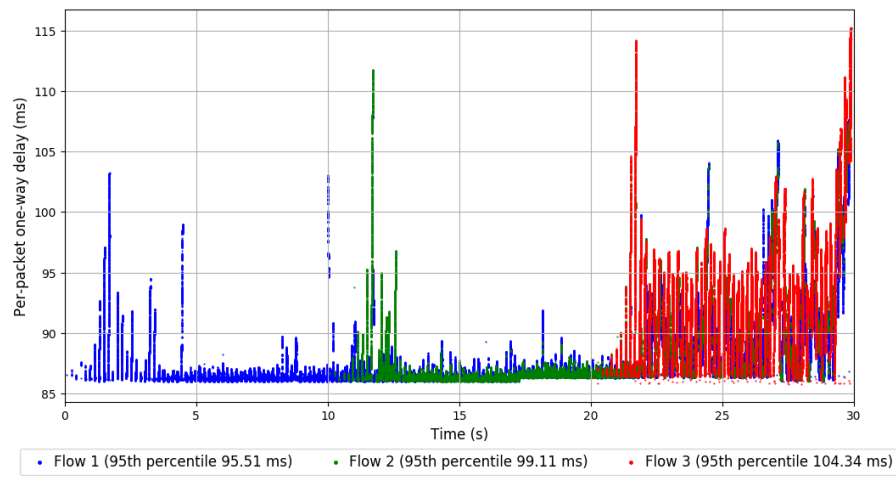
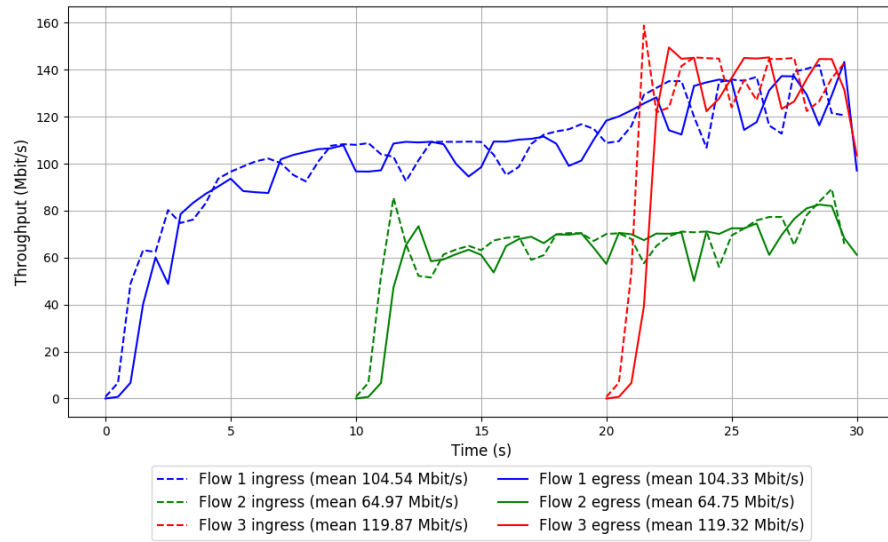


Run 6: Statistics of TCP Cubic

Start at: 2018-07-04 05:36:15  
End at: 2018-07-04 05:36:45  
Local clock offset: 0.113 ms  
Remote clock offset: -0.003 ms

# Below is generated by plot.py at 2018-07-04 08:03:07  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 186.43 Mbit/s  
95th percentile per-packet one-way delay: 98.963 ms  
Loss rate: 1.18%  
-- Flow 1:  
Average throughput: 104.33 Mbit/s  
95th percentile per-packet one-way delay: 95.513 ms  
Loss rate: 0.78%  
-- Flow 2:  
Average throughput: 64.75 Mbit/s  
95th percentile per-packet one-way delay: 99.108 ms  
Loss rate: 1.21%  
-- Flow 3:  
Average throughput: 119.32 Mbit/s  
95th percentile per-packet one-way delay: 104.340 ms  
Loss rate: 2.20%

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



Run 7: Statistics of TCP Cubic

Start at: 2018-07-04 06:01:01

End at: 2018-07-04 06:01:31

Local clock offset: 0.051 ms

Remote clock offset: 0.028 ms

# Below is generated by plot.py at 2018-07-04 08:03:58

# Datalink statistics

-- Total of 3 flows:

Average throughput: 227.71 Mbit/s

95th percentile per-packet one-way delay: 100.815 ms

Loss rate: 0.95%

-- Flow 1:

Average throughput: 131.57 Mbit/s

95th percentile per-packet one-way delay: 100.629 ms

Loss rate: 0.61%

-- Flow 2:

Average throughput: 86.57 Mbit/s

95th percentile per-packet one-way delay: 98.292 ms

Loss rate: 0.96%

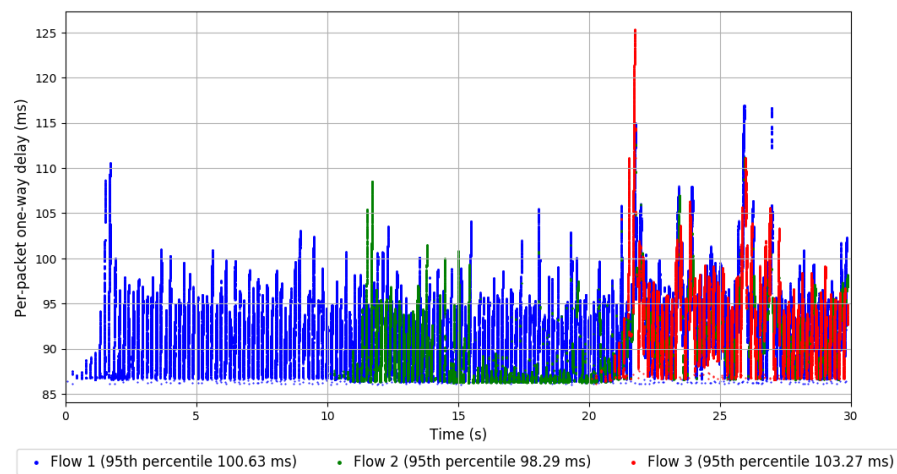
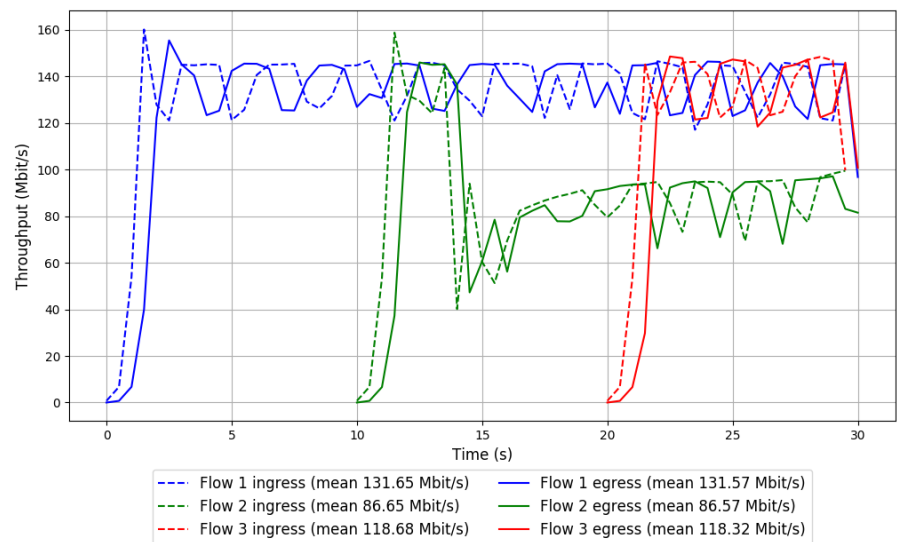
-- Flow 3:

Average throughput: 118.32 Mbit/s

95th percentile per-packet one-way delay: 103.266 ms

Loss rate: 2.05%

Run 7: Report of TCP Cubic — Data Link

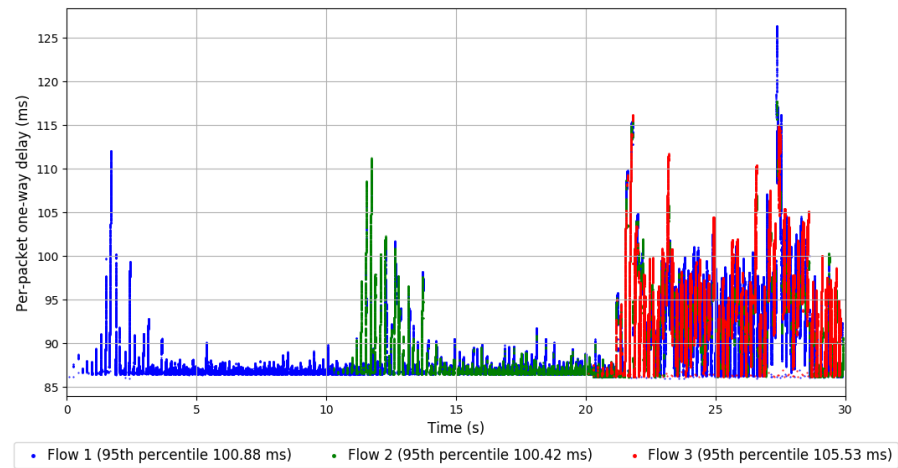
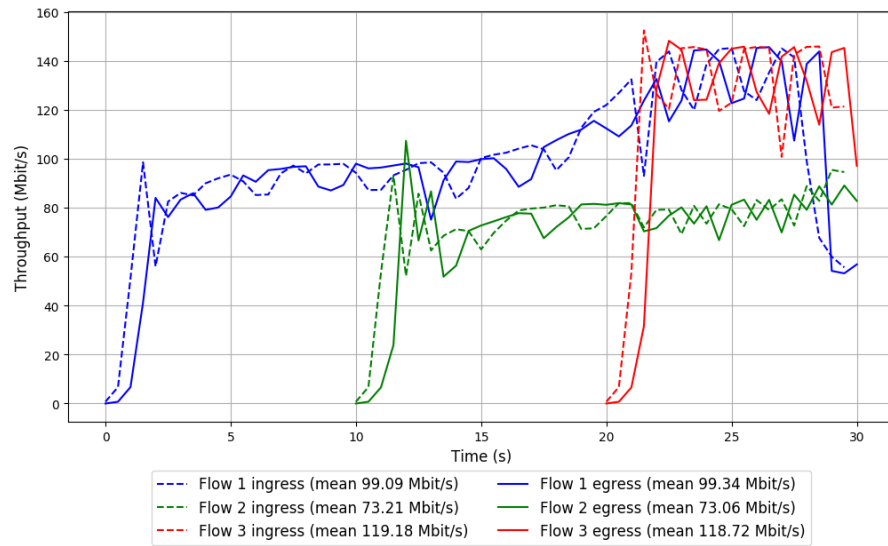


Run 8: Statistics of TCP Cubic

Start at: 2018-07-04 06:25:32  
End at: 2018-07-04 06:26:02  
Local clock offset: -0.032 ms  
Remote clock offset: 0.112 ms

# Below is generated by plot.py at 2018-07-04 08:03:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 186.39 Mbit/s  
95th percentile per-packet one-way delay: 102.867 ms  
Loss rate: 0.88%  
-- Flow 1:  
Average throughput: 99.34 Mbit/s  
95th percentile per-packet one-way delay: 100.875 ms  
Loss rate: 0.32%  
-- Flow 2:  
Average throughput: 73.06 Mbit/s  
95th percentile per-packet one-way delay: 100.421 ms  
Loss rate: 1.07%  
-- Flow 3:  
Average throughput: 118.72 Mbit/s  
95th percentile per-packet one-way delay: 105.525 ms  
Loss rate: 2.06%

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



Run 9: Statistics of TCP Cubic

Start at: 2018-07-04 06:49:53

End at: 2018-07-04 06:50:23

Local clock offset: -0.052 ms

Remote clock offset: 0.133 ms

# Below is generated by plot.py at 2018-07-04 08:03:58

# Datalink statistics

-- Total of 3 flows:

Average throughput: 188.89 Mbit/s

95th percentile per-packet one-way delay: 104.664 ms

Loss rate: 1.11%

-- Flow 1:

Average throughput: 104.21 Mbit/s

95th percentile per-packet one-way delay: 100.399 ms

Loss rate: 0.74%

-- Flow 2:

Average throughput: 69.49 Mbit/s

95th percentile per-packet one-way delay: 101.350 ms

Loss rate: 1.15%

-- Flow 3:

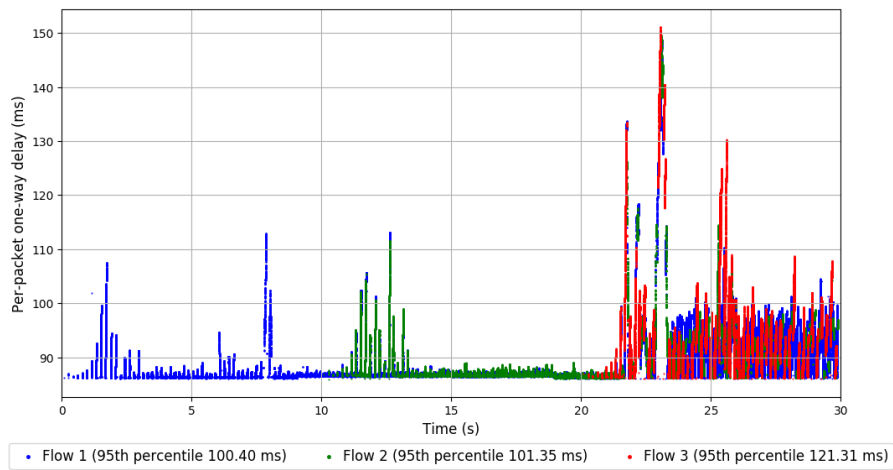
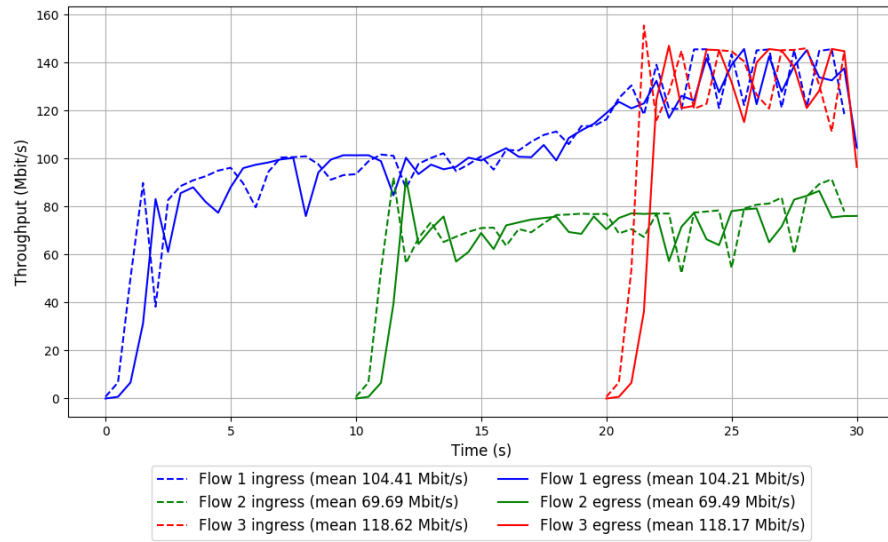
Average throughput: 118.17 Mbit/s

95th percentile per-packet one-way delay: 121.310 ms

Loss rate: 2.08%



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

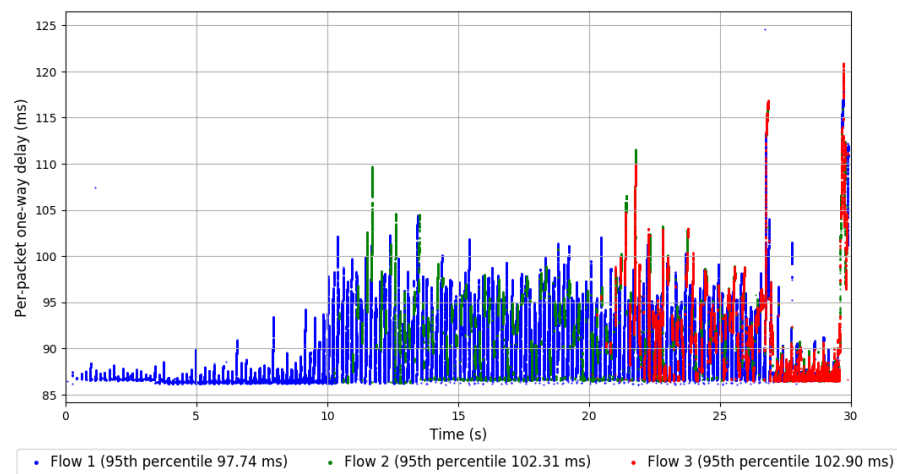
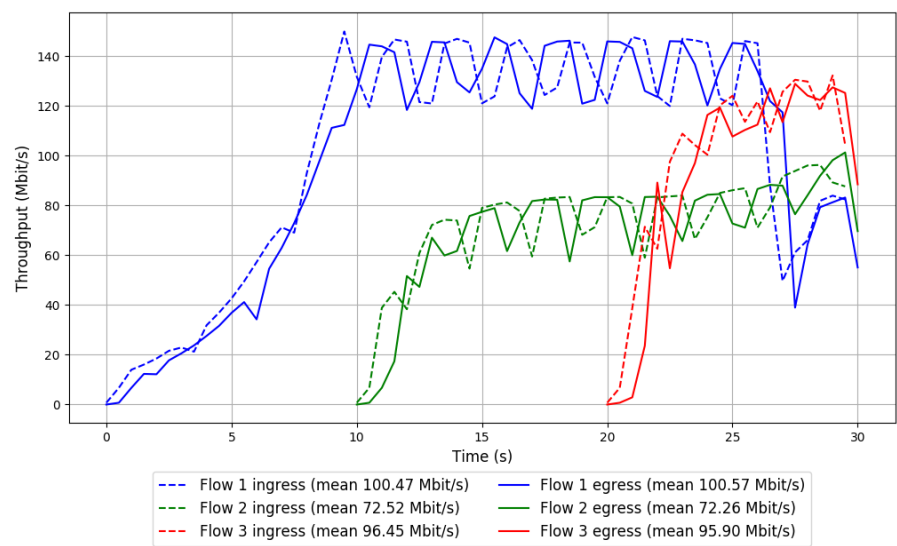


Run 10: Statistics of TCP Cubic

Start at: 2018-07-04 07:14:49  
End at: 2018-07-04 07:15:19  
Local clock offset: 0.043 ms  
Remote clock offset: -0.014 ms

# Below is generated by plot.py at 2018-07-04 08:03:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 179.99 Mbit/s  
95th percentile per-packet one-way delay: 99.217 ms  
Loss rate: 1.00%  
-- Flow 1:  
Average throughput: 100.57 Mbit/s  
95th percentile per-packet one-way delay: 97.739 ms  
Loss rate: 0.48%  
-- Flow 2:  
Average throughput: 72.26 Mbit/s  
95th percentile per-packet one-way delay: 102.305 ms  
Loss rate: 1.23%  
-- Flow 3:  
Average throughput: 95.90 Mbit/s  
95th percentile per-packet one-way delay: 102.896 ms  
Loss rate: 2.30%

Run 10: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2018-07-04 03:47:35

End at: 2018-07-04 03:48:05

Local clock offset: -0.101 ms

Remote clock offset: 0.04 ms

# Below is generated by plot.py at 2018-07-04 08:25:22

# Datalink statistics

-- Total of 3 flows:

Average throughput: 1161.20 Mbit/s

95th percentile per-packet one-way delay: 292.262 ms

Loss rate: 2.14%

-- Flow 1:

Average throughput: 571.64 Mbit/s

95th percentile per-packet one-way delay: 307.842 ms

Loss rate: 1.54%

-- Flow 2:

Average throughput: 613.52 Mbit/s

95th percentile per-packet one-way delay: 288.785 ms

Loss rate: 2.28%

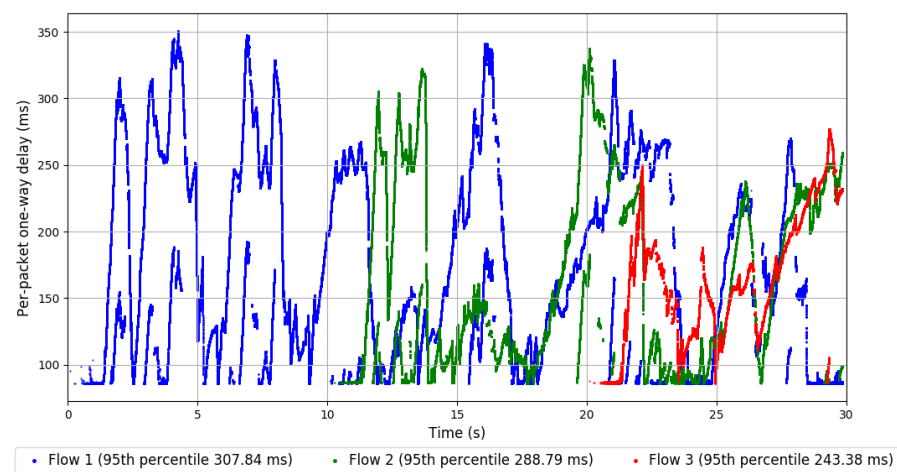
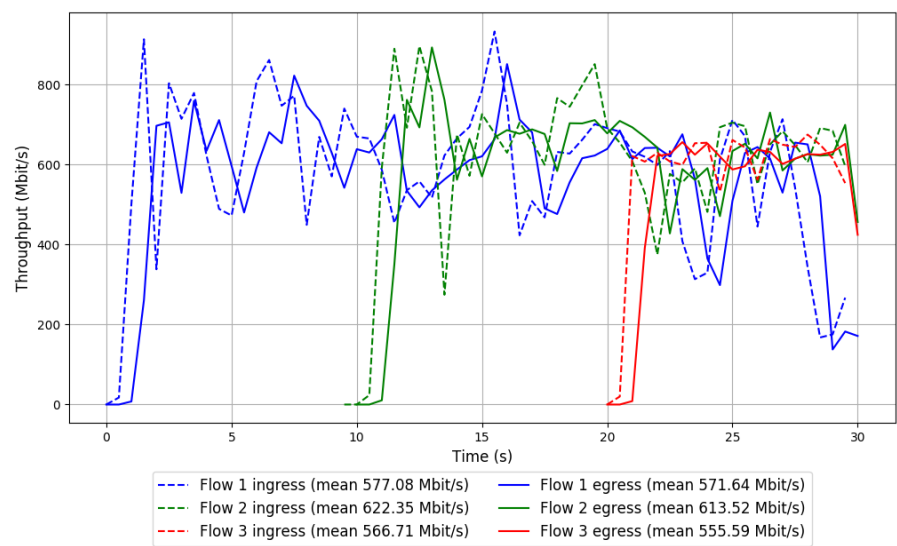
-- Flow 3:

Average throughput: 555.59 Mbit/s

95th percentile per-packet one-way delay: 243.377 ms

Loss rate: 3.69%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-07-04 04:12:24

End at: 2018-07-04 04:12:54

Local clock offset: -0.034 ms

Remote clock offset: 0.106 ms

# Below is generated by plot.py at 2018-07-04 08:26:14

# Datalink statistics

-- Total of 3 flows:

Average throughput: 1173.17 Mbit/s

95th percentile per-packet one-way delay: 326.421 ms

Loss rate: 3.64%

-- Flow 1:

Average throughput: 595.92 Mbit/s

95th percentile per-packet one-way delay: 324.807 ms

Loss rate: 3.67%

-- Flow 2:

Average throughput: 597.63 Mbit/s

95th percentile per-packet one-way delay: 329.637 ms

Loss rate: 2.69%

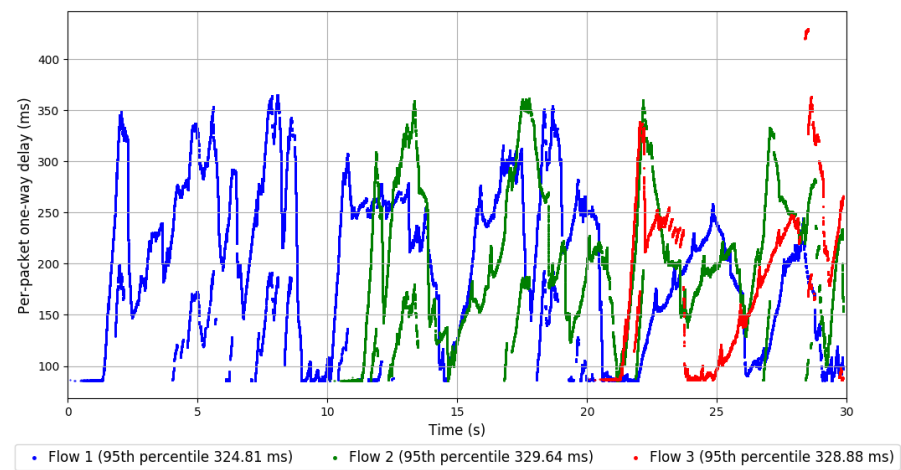
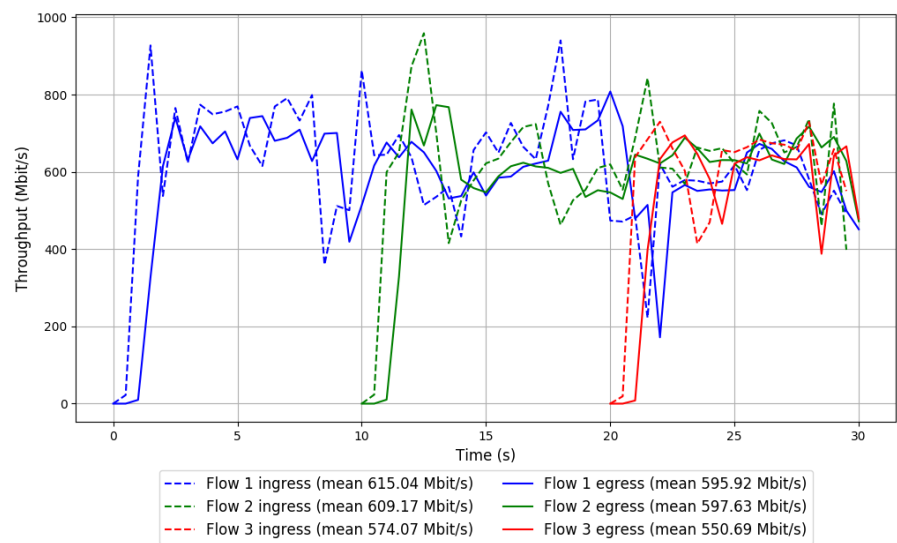
-- Flow 3:

Average throughput: 550.69 Mbit/s

95th percentile per-packet one-way delay: 328.879 ms

Loss rate: 5.55%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-07-04 04:37:29

End at: 2018-07-04 04:37:59

Local clock offset: 0.264 ms

Remote clock offset: 0.098 ms

# Below is generated by plot.py at 2018-07-04 08:26:14

# Datalink statistics

-- Total of 3 flows:

Average throughput: 718.03 Mbit/s

95th percentile per-packet one-way delay: 332.641 ms

Loss rate: 4.08%

-- Flow 1:

Average throughput: 124.72 Mbit/s

95th percentile per-packet one-way delay: 327.841 ms

Loss rate: 2.12%

-- Flow 2:

Average throughput: 611.61 Mbit/s

95th percentile per-packet one-way delay: 343.207 ms

Loss rate: 4.36%

-- Flow 3:

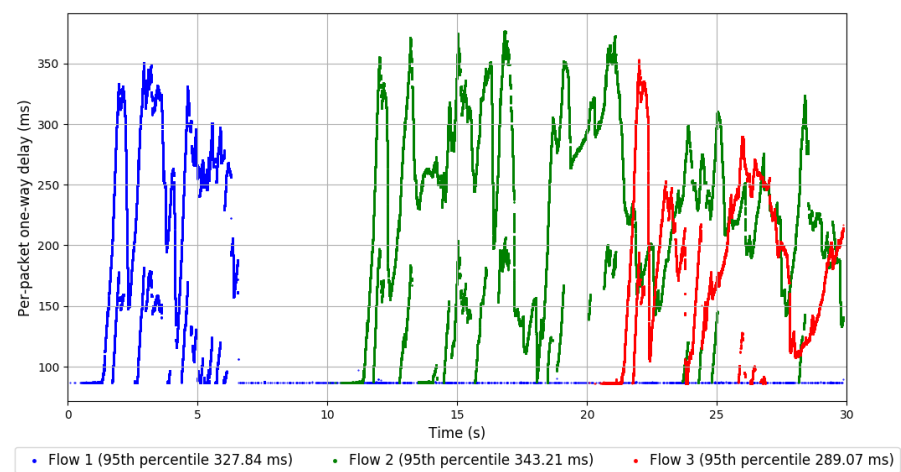
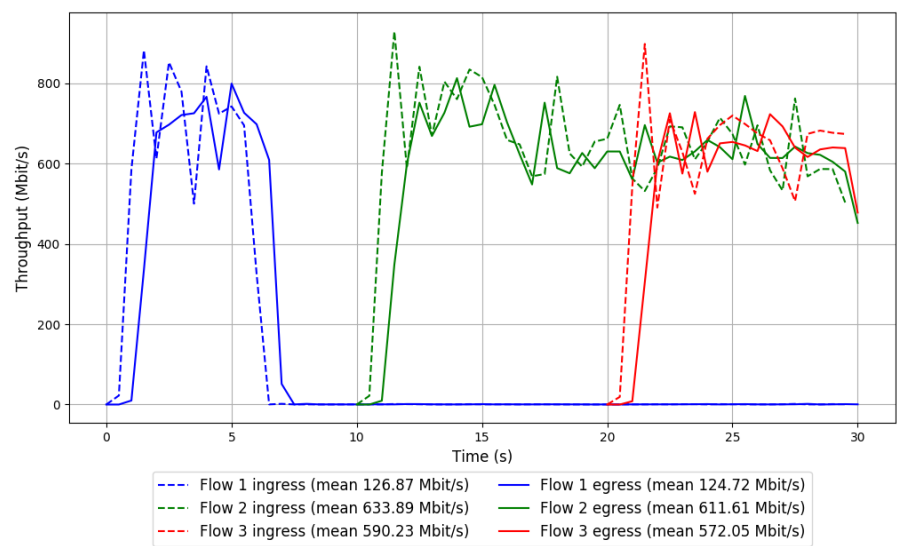
Average throughput: 572.05 Mbit/s

95th percentile per-packet one-way delay: 289.071 ms

Loss rate: 4.74%



Run 3: Report of FillP — Data Link

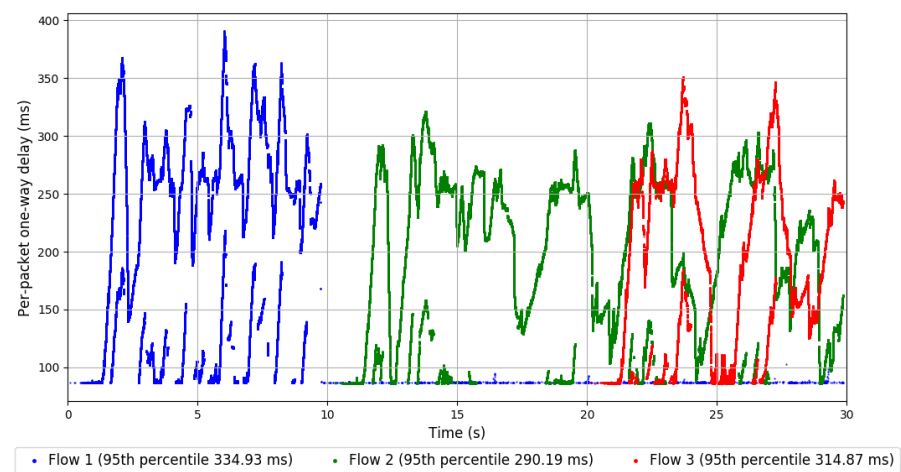
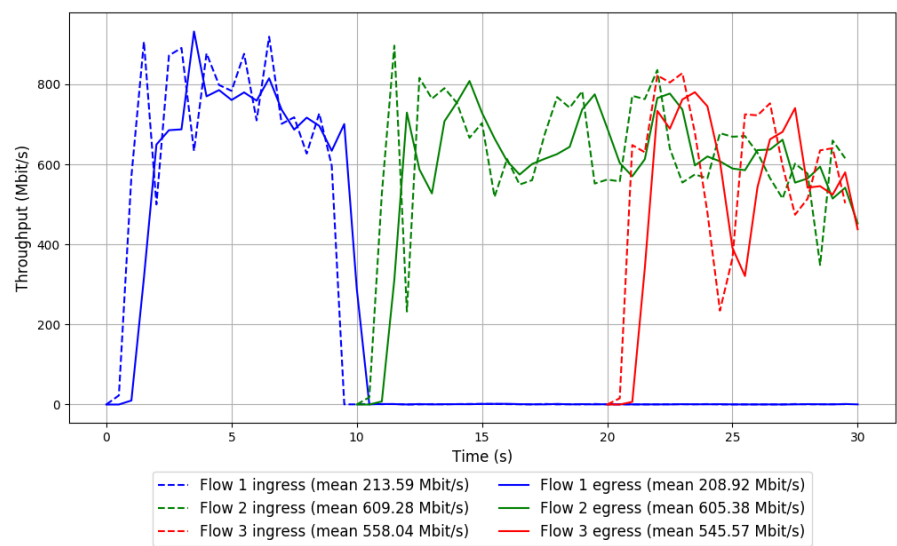


Run 4: Statistics of FillP

Start at: 2018-07-04 05:02:17  
End at: 2018-07-04 05:02:47  
Local clock offset: 0.057 ms  
Remote clock offset: -0.032 ms

# Below is generated by plot.py at 2018-07-04 08:26:14  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 789.28 Mbit/s  
95th percentile per-packet one-way delay: 312.950 ms  
Loss rate: 2.32%  
-- Flow 1:  
Average throughput: 208.92 Mbit/s  
95th percentile per-packet one-way delay: 334.931 ms  
Loss rate: 2.51%  
-- Flow 2:  
Average throughput: 605.38 Mbit/s  
95th percentile per-packet one-way delay: 290.191 ms  
Loss rate: 1.49%  
-- Flow 3:  
Average throughput: 545.57 Mbit/s  
95th percentile per-packet one-way delay: 314.873 ms  
Loss rate: 3.95%

Run 4: Report of FillP — Data Link

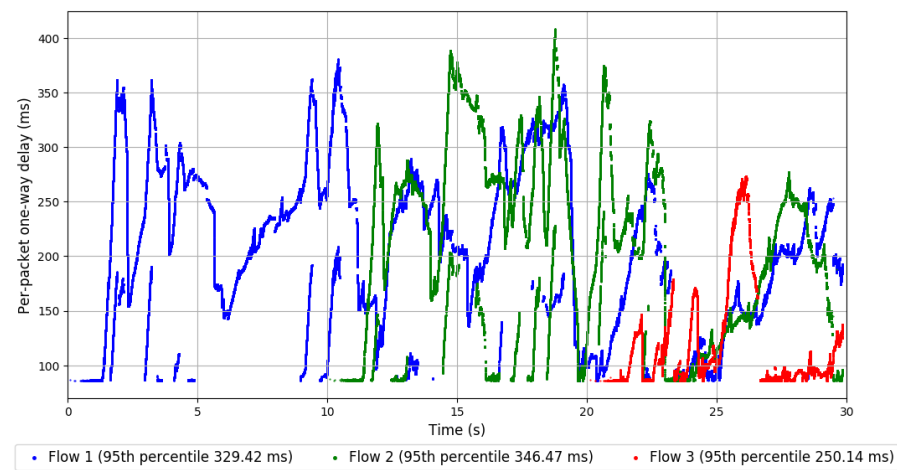
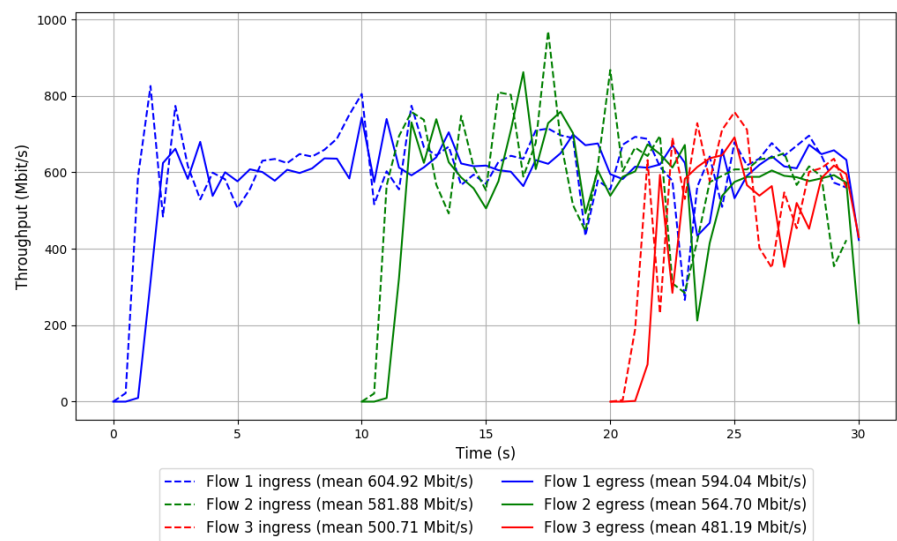


Run 5: Statistics of FillP

Start at: 2018-07-04 05:26:56  
End at: 2018-07-04 05:27:26  
Local clock offset: 0.375 ms  
Remote clock offset: -0.021 ms

# Below is generated by plot.py at 2018-07-04 08:27:03  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1126.28 Mbit/s  
95th percentile per-packet one-way delay: 333.052 ms  
Loss rate: 3.32%  
-- Flow 1:  
Average throughput: 594.04 Mbit/s  
95th percentile per-packet one-way delay: 329.424 ms  
Loss rate: 2.38%  
-- Flow 2:  
Average throughput: 564.70 Mbit/s  
95th percentile per-packet one-way delay: 346.473 ms  
Loss rate: 3.81%  
-- Flow 3:  
Average throughput: 481.19 Mbit/s  
95th percentile per-packet one-way delay: 250.144 ms  
Loss rate: 5.60%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-07-04 05:51:47

End at: 2018-07-04 05:52:17

Local clock offset: 0.177 ms

Remote clock offset: 0.03 ms

# Below is generated by plot.py at 2018-07-04 08:27:03

# Datalink statistics

-- Total of 3 flows:

Average throughput: 1029.52 Mbit/s

95th percentile per-packet one-way delay: 336.429 ms

Loss rate: 5.21%

-- Flow 1:

Average throughput: 565.67 Mbit/s

95th percentile per-packet one-way delay: 343.025 ms

Loss rate: 5.32%

-- Flow 2:

Average throughput: 461.87 Mbit/s

95th percentile per-packet one-way delay: 311.855 ms

Loss rate: 4.37%

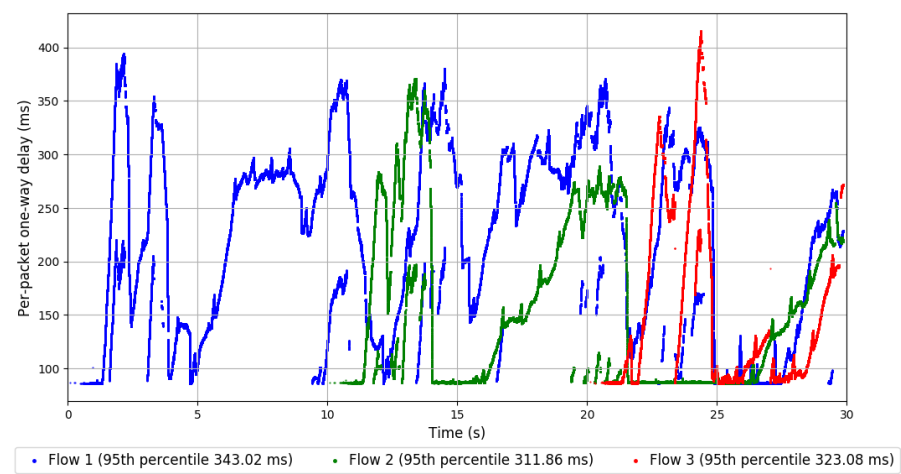
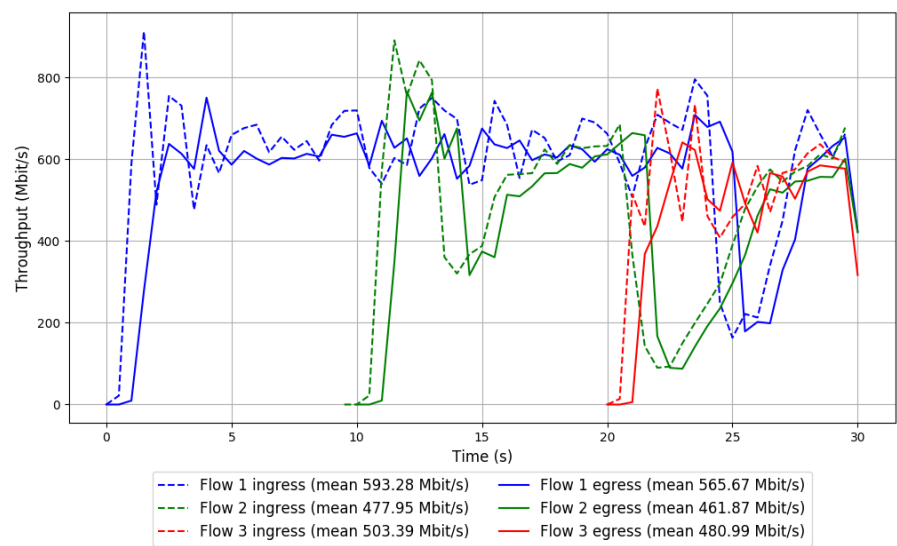
-- Flow 3:

Average throughput: 480.99 Mbit/s

95th percentile per-packet one-way delay: 323.083 ms

Loss rate: 6.47%

Run 6: Report of FillP — Data Link



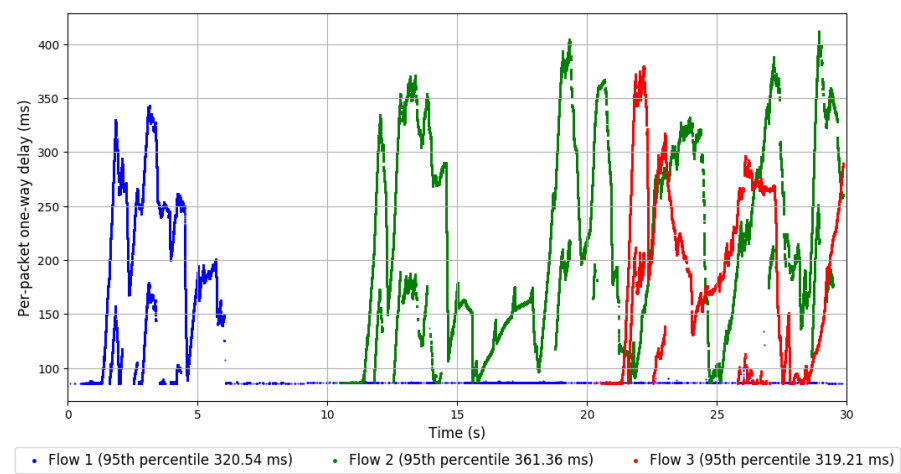
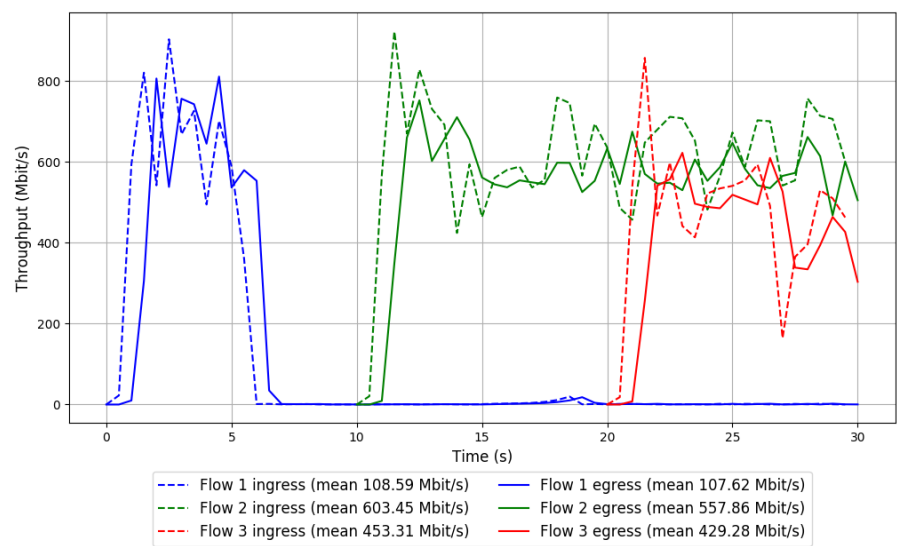
Run 7: Statistics of FillP

Start at: 2018-07-04 06:16:33  
End at: 2018-07-04 06:17:03  
Local clock offset: -0.118 ms  
Remote clock offset: 0.098 ms

# Below is generated by plot.py at 2018-07-04 08:27:03  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 618.38 Mbit/s  
95th percentile per-packet one-way delay: 354.201 ms  
Loss rate: 6.93%  
-- Flow 1:  
Average throughput: 107.62 Mbit/s  
95th percentile per-packet one-way delay: 320.537 ms  
Loss rate: 1.61%  
-- Flow 2:  
Average throughput: 557.86 Mbit/s  
95th percentile per-packet one-way delay: 361.362 ms  
Loss rate: 8.37%  
-- Flow 3:  
Average throughput: 429.28 Mbit/s  
95th percentile per-packet one-way delay: 319.210 ms  
Loss rate: 6.95%



Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-07-04 06:40:57

End at: 2018-07-04 06:41:27

Local clock offset: -0.059 ms

Remote clock offset: 0.131 ms

# Below is generated by plot.py at 2018-07-04 08:27:03

# Datalink statistics

-- Total of 3 flows:

Average throughput: 607.87 Mbit/s

95th percentile per-packet one-way delay: 354.453 ms

Loss rate: 6.17%

-- Flow 1:

Average throughput: 152.25 Mbit/s

95th percentile per-packet one-way delay: 330.155 ms

Loss rate: 3.39%

-- Flow 2:

Average throughput: 567.81 Mbit/s

95th percentile per-packet one-way delay: 348.795 ms

Loss rate: 5.73%

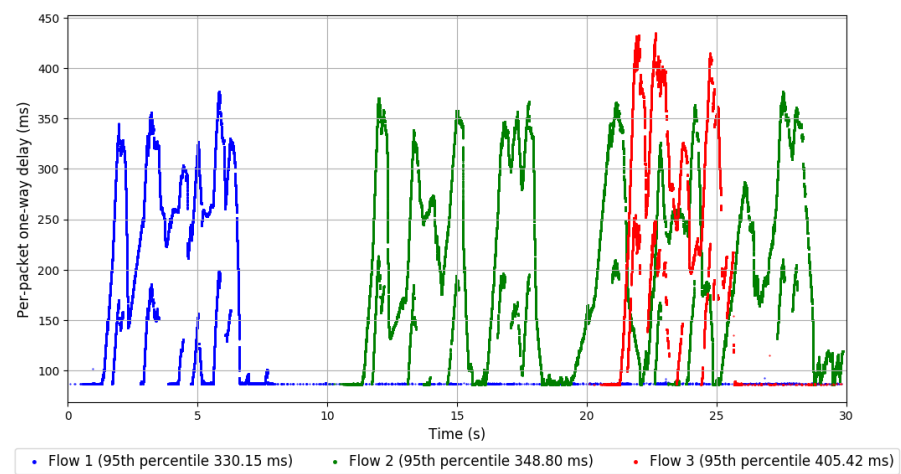
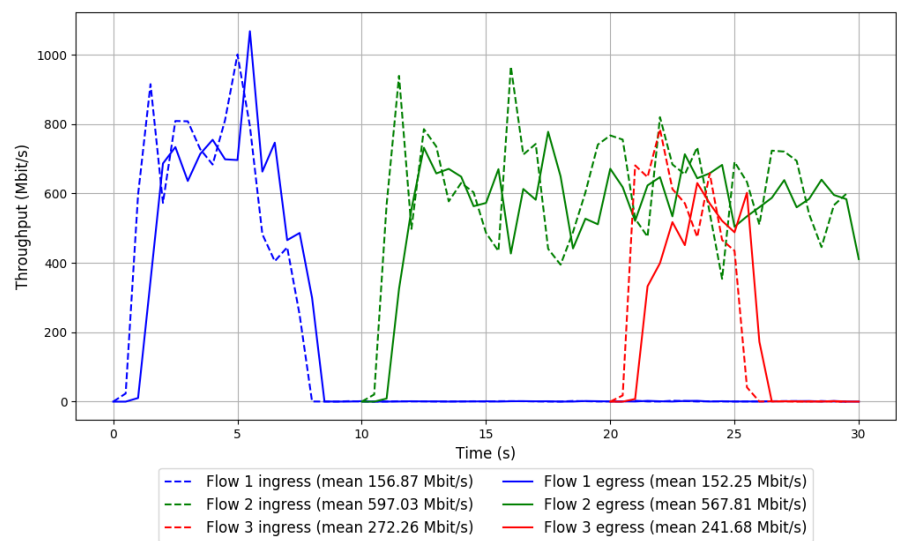
-- Flow 3:

Average throughput: 241.68 Mbit/s

95th percentile per-packet one-way delay: 405.424 ms

Loss rate: 12.93%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-07-04 07:05:30

End at: 2018-07-04 07:06:00

Local clock offset: 0.044 ms

Remote clock offset: 0.011 ms

# Below is generated by plot.py at 2018-07-04 08:39:31

# Datalink statistics

-- Total of 3 flows:

Average throughput: 1060.82 Mbit/s

95th percentile per-packet one-way delay: 345.348 ms

Loss rate: 6.99%

-- Flow 1:

Average throughput: 558.57 Mbit/s

95th percentile per-packet one-way delay: 340.582 ms

Loss rate: 7.44%

-- Flow 2:

Average throughput: 507.29 Mbit/s

95th percentile per-packet one-way delay: 393.307 ms

Loss rate: 8.64%

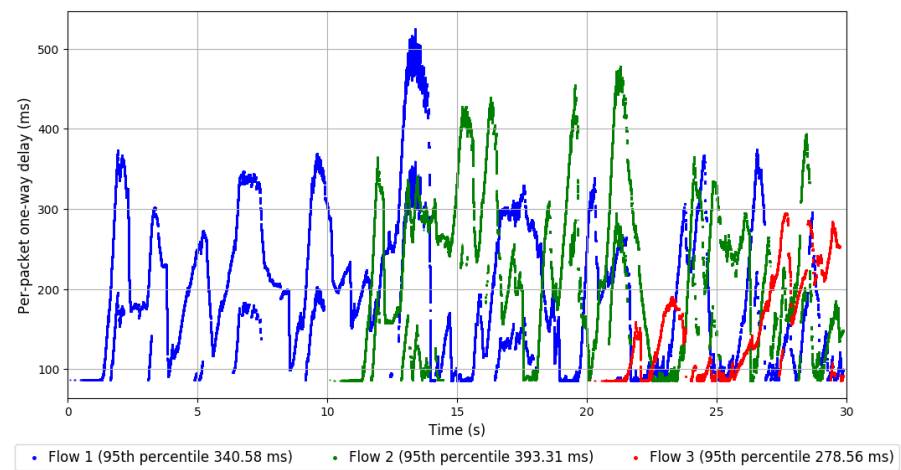
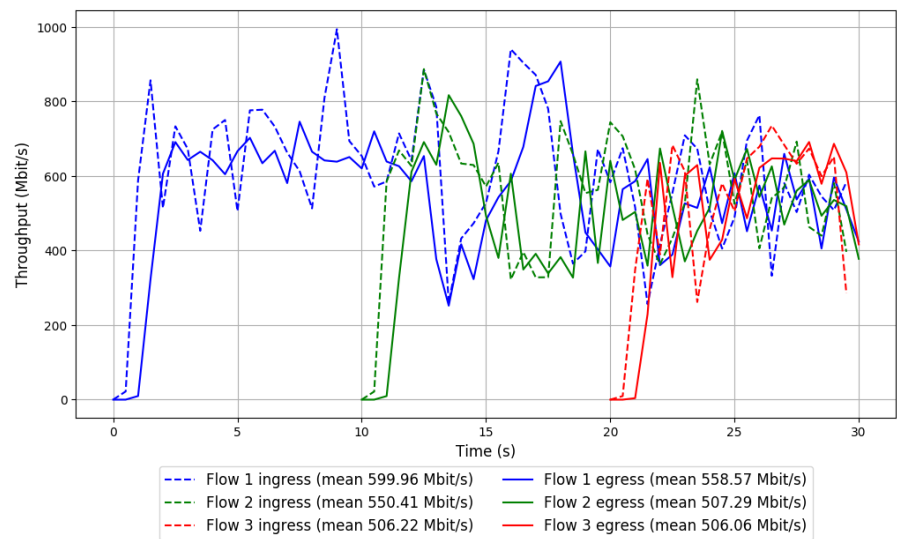
-- Flow 3:

Average throughput: 506.06 Mbit/s

95th percentile per-packet one-way delay: 278.560 ms

Loss rate: 1.78%

Run 9: Report of FillP — Data Link

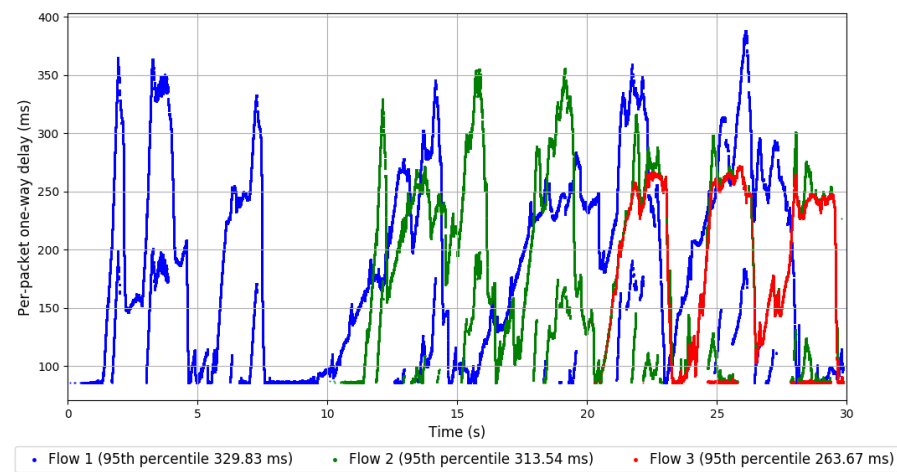
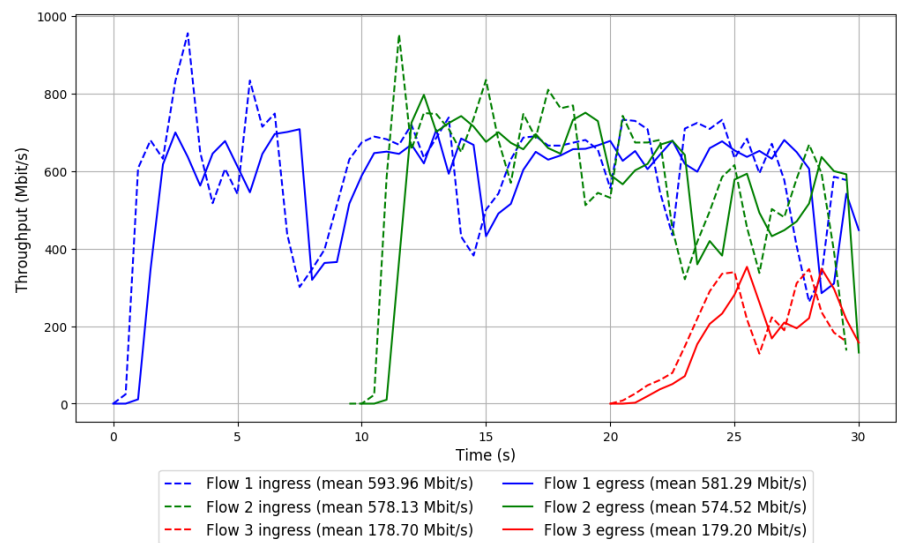


Run 10: Statistics of FillP

Start at: 2018-07-04 07:30:16  
End at: 2018-07-04 07:30:46  
Local clock offset: -0.167 ms  
Remote clock offset: -0.024 ms

# Below is generated by plot.py at 2018-07-04 08:39:31  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1021.27 Mbit/s  
95th percentile per-packet one-way delay: 323.100 ms  
Loss rate: 2.21%  
-- Flow 1:  
Average throughput: 581.29 Mbit/s  
95th percentile per-packet one-way delay: 329.832 ms  
Loss rate: 2.70%  
-- Flow 2:  
Average throughput: 574.52 Mbit/s  
95th percentile per-packet one-way delay: 313.537 ms  
Loss rate: 1.49%  
-- Flow 3:  
Average throughput: 179.20 Mbit/s  
95th percentile per-packet one-way delay: 263.668 ms  
Loss rate: 1.98%

Run 10: Report of FillP — Data Link



Run 1: Statistics of FillP-Sheep

Start at: 2018-07-04 03:44:10

End at: 2018-07-04 03:44:40

Local clock offset: -0.023 ms

Remote clock offset: 0.083 ms

# Below is generated by plot.py at 2018-07-04 08:40:48

# Datalink statistics

-- Total of 3 flows:

Average throughput: 1096.60 Mbit/s

95th percentile per-packet one-way delay: 265.534 ms

Loss rate: 1.84%

-- Flow 1:

Average throughput: 591.77 Mbit/s

95th percentile per-packet one-way delay: 264.663 ms

Loss rate: 0.76%

-- Flow 2:

Average throughput: 557.30 Mbit/s

95th percentile per-packet one-way delay: 291.683 ms

Loss rate: 1.92%

-- Flow 3:

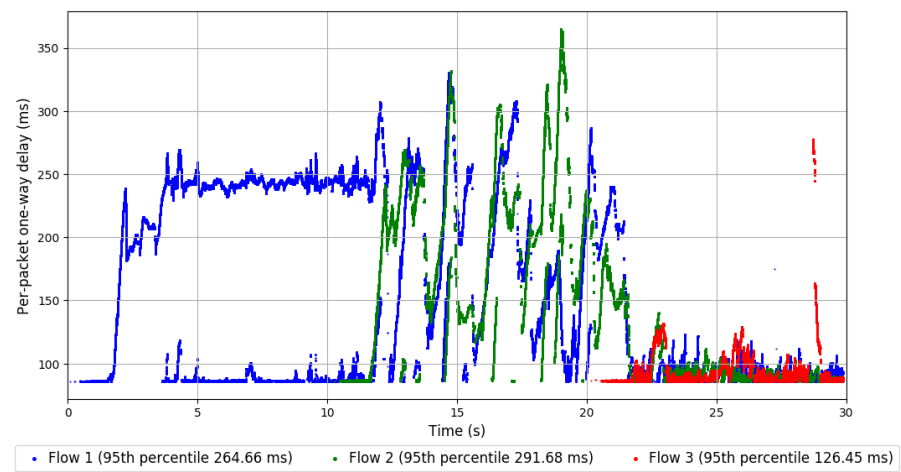
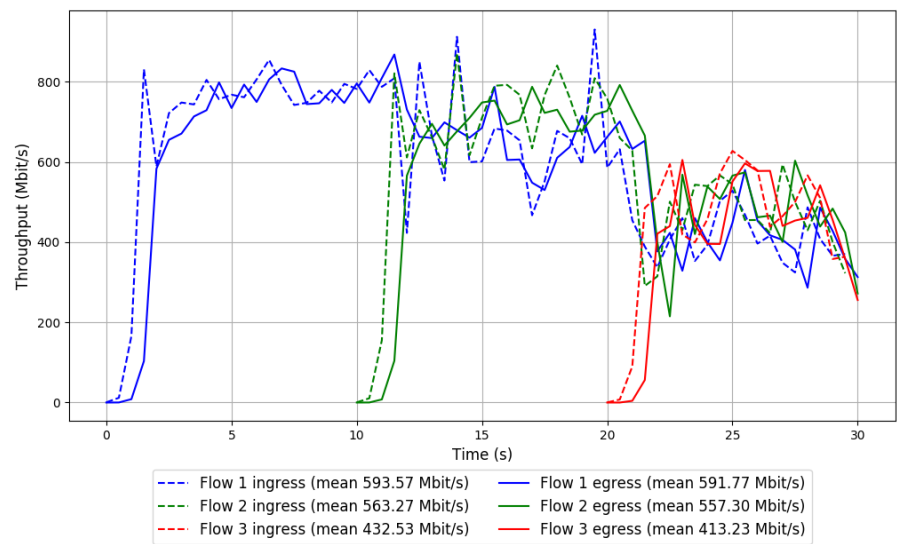
Average throughput: 413.23 Mbit/s

95th percentile per-packet one-way delay: 126.449 ms

Loss rate: 6.10%



Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

Start at: 2018-07-04 04:08:56

End at: 2018-07-04 04:09:26

Local clock offset: -0.124 ms

Remote clock offset: 0.055 ms

# Below is generated by plot.py at 2018-07-04 08:44:35

# Datalink statistics

-- Total of 3 flows:

Average throughput: 1076.37 Mbit/s

95th percentile per-packet one-way delay: 319.351 ms

Loss rate: 3.84%

-- Flow 1:

Average throughput: 582.84 Mbit/s

95th percentile per-packet one-way delay: 336.016 ms

Loss rate: 3.85%

-- Flow 2:

Average throughput: 526.34 Mbit/s

95th percentile per-packet one-way delay: 296.252 ms

Loss rate: 3.09%

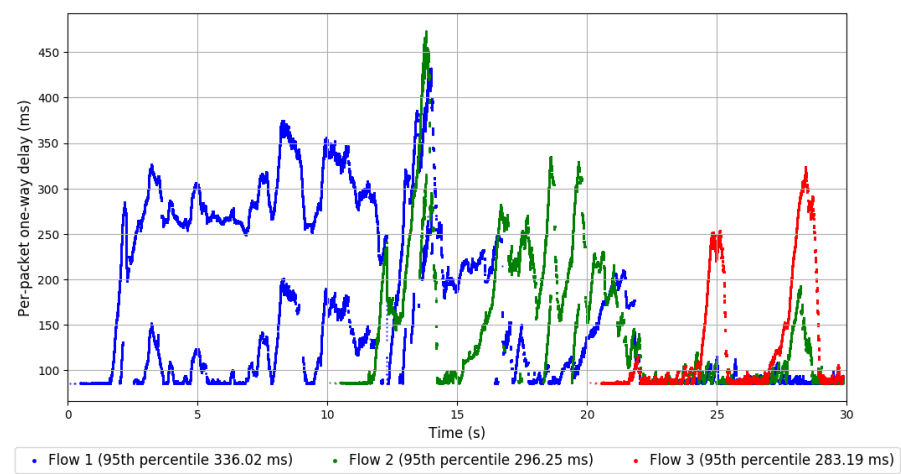
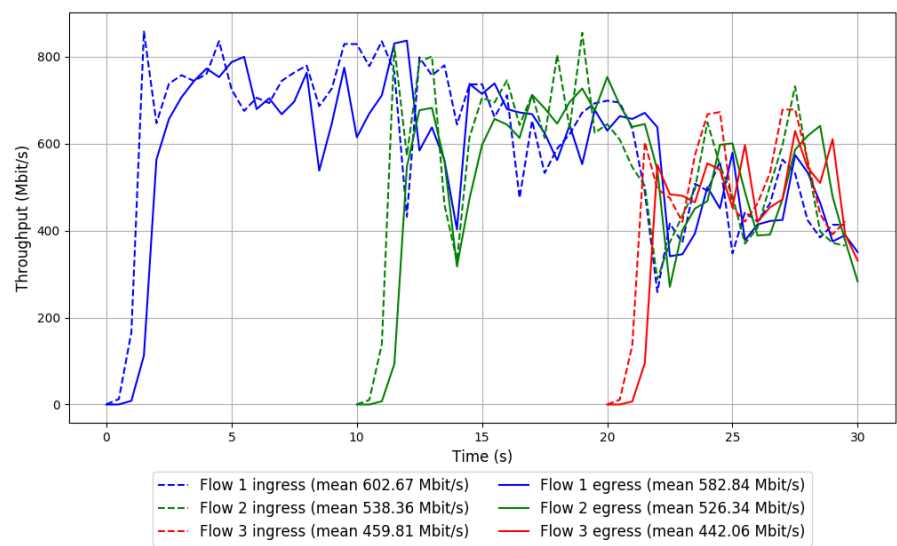
-- Flow 3:

Average throughput: 442.06 Mbit/s

95th percentile per-packet one-way delay: 283.188 ms

Loss rate: 5.55%

Run 2: Report of FillP-Sheep — Data Link



Run 3: Statistics of FillP-Sheep

Start at: 2018-07-04 04:33:58

End at: 2018-07-04 04:34:28

Local clock offset: 0.011 ms

Remote clock offset: 0.11 ms

# Below is generated by plot.py at 2018-07-04 08:50:31

# Datalink statistics

-- Total of 3 flows:

Average throughput: 1131.55 Mbit/s

95th percentile per-packet one-way delay: 324.424 ms

Loss rate: 4.43%

-- Flow 1:

Average throughput: 596.86 Mbit/s

95th percentile per-packet one-way delay: 325.672 ms

Loss rate: 4.36%

-- Flow 2:

Average throughput: 554.01 Mbit/s

95th percentile per-packet one-way delay: 336.822 ms

Loss rate: 5.46%

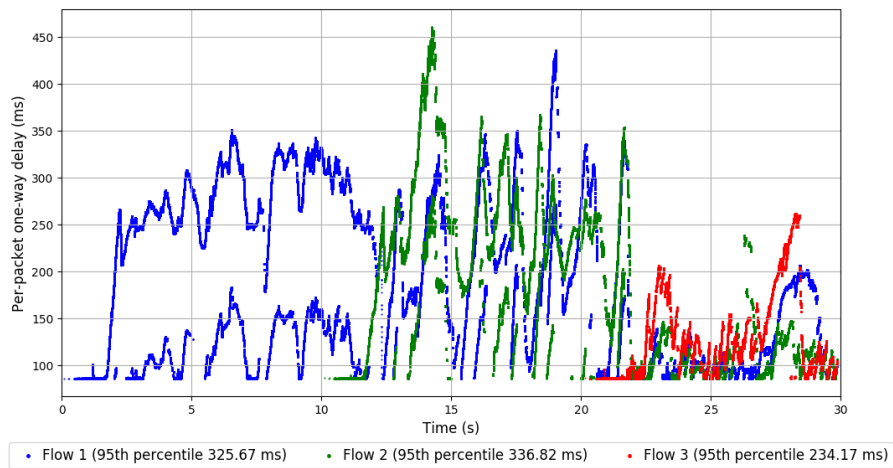
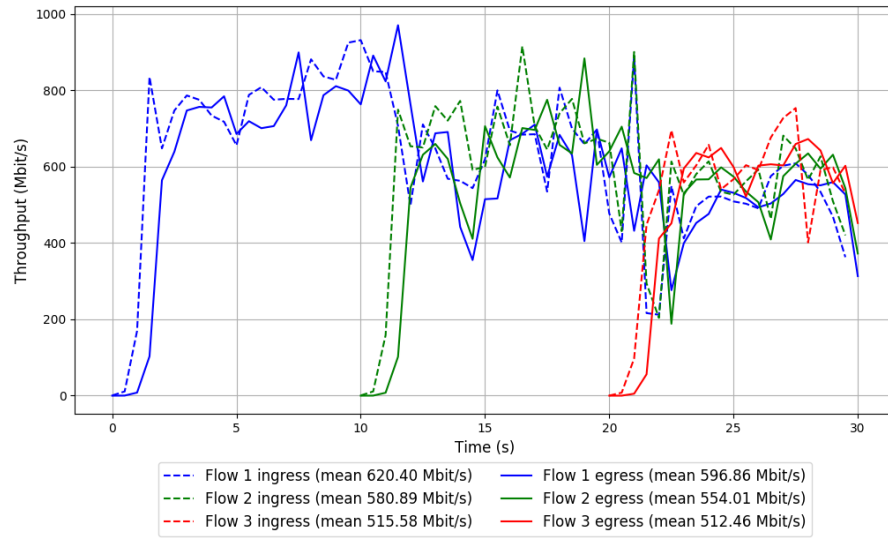
-- Flow 3:

Average throughput: 512.46 Mbit/s

95th percentile per-packet one-way delay: 234.169 ms

Loss rate: 2.36%

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



Run 4: Statistics of FillP-Sheep

Start at: 2018-07-04 04:58:48

End at: 2018-07-04 04:59:18

Local clock offset: 0.031 ms

Remote clock offset: 0.0 ms

# Below is generated by plot.py at 2018-07-04 08:50:59

# Datalink statistics

-- Total of 3 flows:

Average throughput: 1094.06 Mbit/s

95th percentile per-packet one-way delay: 309.967 ms

Loss rate: 2.55%

-- Flow 1:

Average throughput: 582.16 Mbit/s

95th percentile per-packet one-way delay: 298.659 ms

Loss rate: 1.63%

-- Flow 2:

Average throughput: 560.77 Mbit/s

95th percentile per-packet one-way delay: 321.206 ms

Loss rate: 2.00%

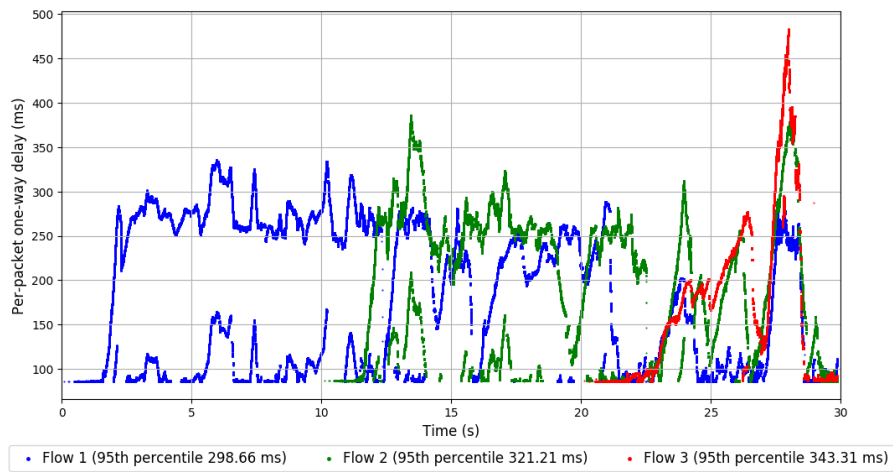
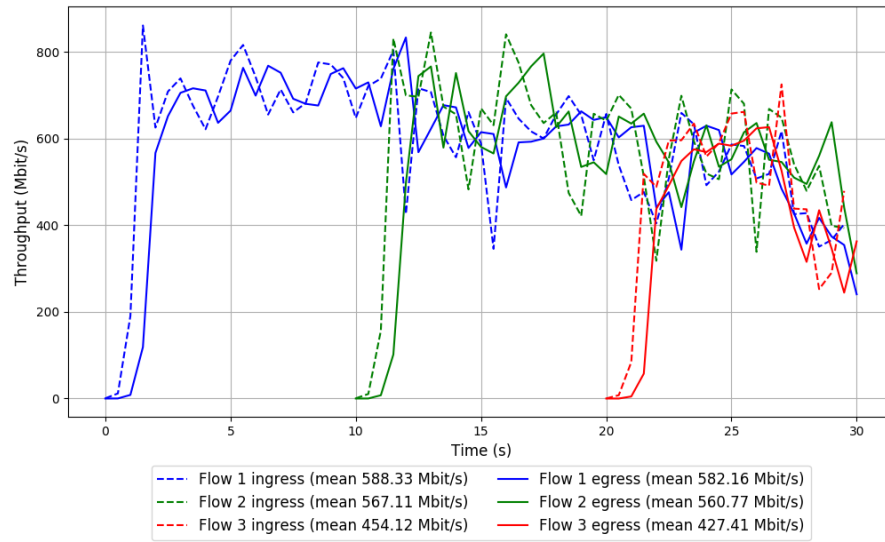
-- Flow 3:

Average throughput: 427.41 Mbit/s

95th percentile per-packet one-way delay: 343.308 ms

Loss rate: 7.55%

# Run 4: Report of FillP-Sheep — Data Link



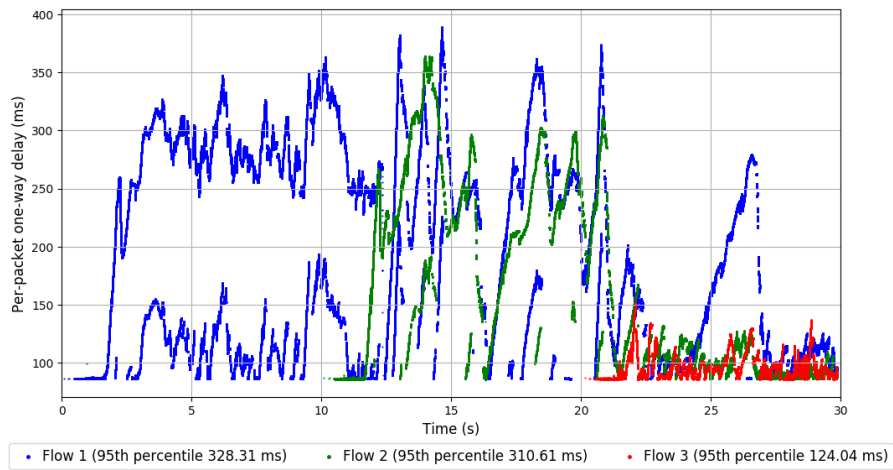
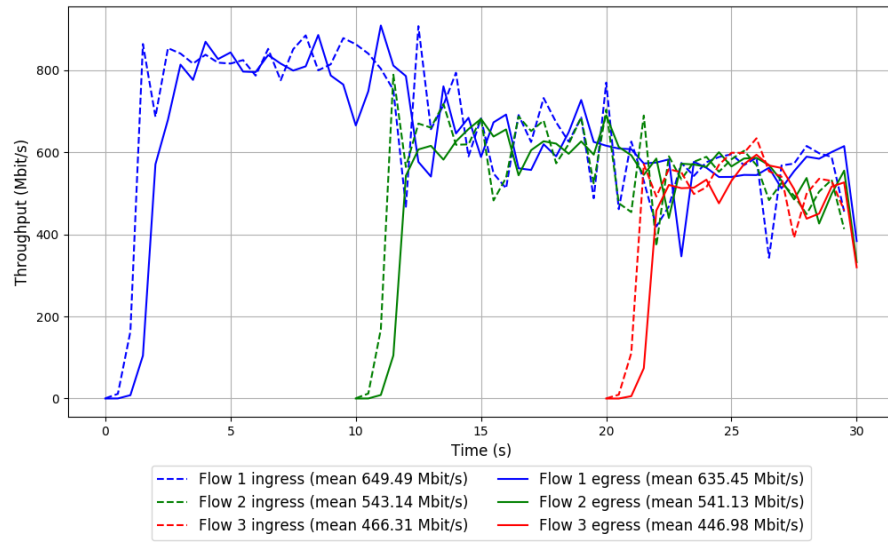
Run 5: Statistics of FillP-Sheep

Start at: 2018-07-04 05:23:26  
End at: 2018-07-04 05:23:56  
Local clock offset: -0.02 ms  
Remote clock offset: -0.035 ms

# Below is generated by plot.py at 2018-07-04 08:51:38  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1140.53 Mbit/s  
95th percentile per-packet one-way delay: 320.327 ms  
Loss rate: 2.67%  
-- Flow 1:  
Average throughput: 635.45 Mbit/s  
95th percentile per-packet one-way delay: 328.313 ms  
Loss rate: 2.73%  
-- Flow 2:  
Average throughput: 541.13 Mbit/s  
95th percentile per-packet one-way delay: 310.605 ms  
Loss rate: 1.20%  
-- Flow 3:  
Average throughput: 446.98 Mbit/s  
95th percentile per-packet one-way delay: 124.038 ms  
Loss rate: 5.82%



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



Run 6: Statistics of FillP-Sheep

Start at: 2018-07-04 05:48:21

End at: 2018-07-04 05:48:51

Local clock offset: 0.149 ms

Remote clock offset: 0.02 ms

# Below is generated by plot.py at 2018-07-04 08:51:38

# Datalink statistics

-- Total of 3 flows:

Average throughput: 1027.59 Mbit/s

95th percentile per-packet one-way delay: 343.728 ms

Loss rate: 7.68%

-- Flow 1:

Average throughput: 511.25 Mbit/s

95th percentile per-packet one-way delay: 353.831 ms

Loss rate: 7.96%

-- Flow 2:

Average throughput: 559.02 Mbit/s

95th percentile per-packet one-way delay: 338.444 ms

Loss rate: 8.55%

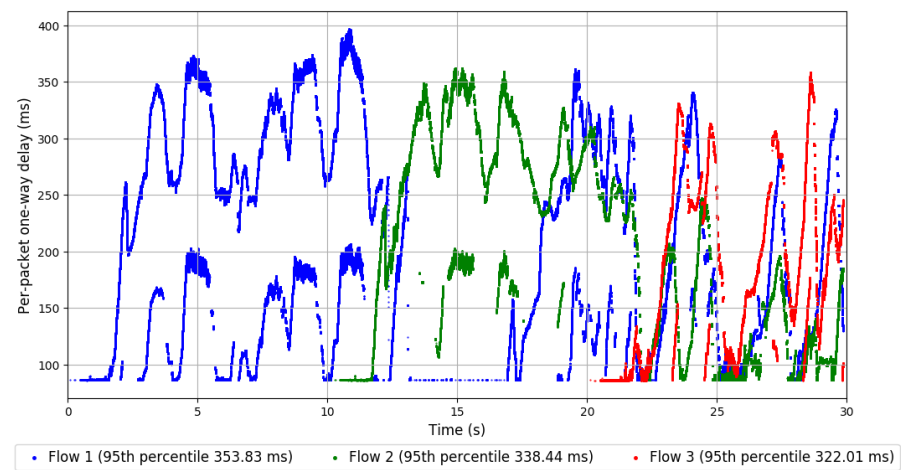
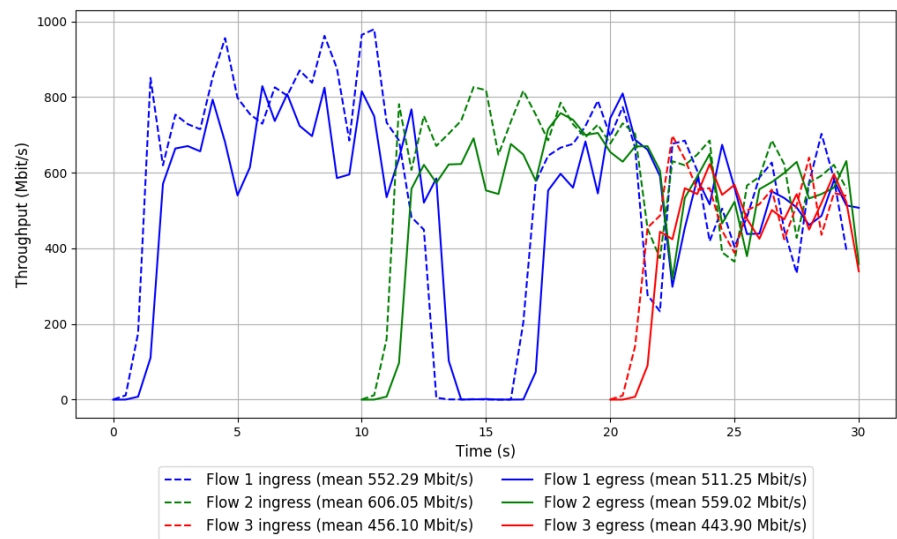
-- Flow 3:

Average throughput: 443.90 Mbit/s

95th percentile per-packet one-way delay: 322.015 ms

Loss rate: 4.38%

Run 6: Report of FillP-Sheep — Data Link



Run 7: Statistics of FillP-Sheep

Start at: 2018-07-04 06:13:05

End at: 2018-07-04 06:13:35

Local clock offset: 0.009 ms

Remote clock offset: 0.107 ms

# Below is generated by plot.py at 2018-07-04 09:06:48

# Datalink statistics

-- Total of 3 flows:

Average throughput: 1141.93 Mbit/s

95th percentile per-packet one-way delay: 323.228 ms

Loss rate: 5.85%

-- Flow 1:

Average throughput: 607.60 Mbit/s

95th percentile per-packet one-way delay: 333.398 ms

Loss rate: 9.02%

-- Flow 2:

Average throughput: 574.55 Mbit/s

95th percentile per-packet one-way delay: 283.363 ms

Loss rate: 1.34%

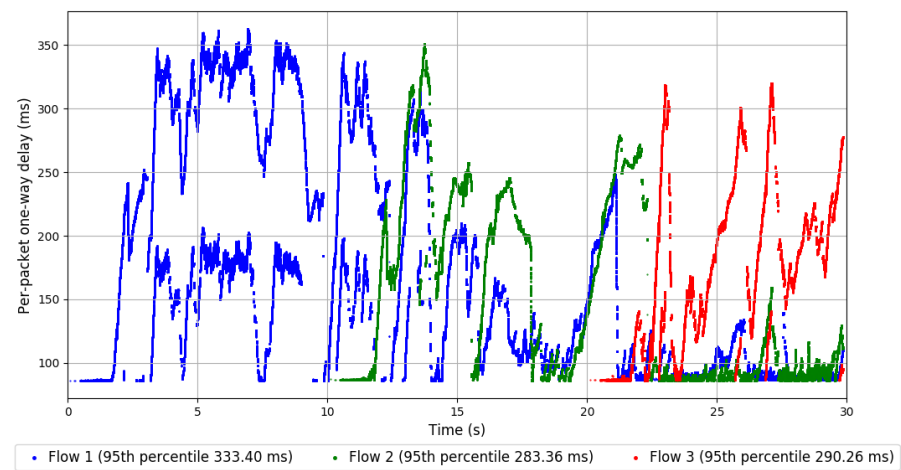
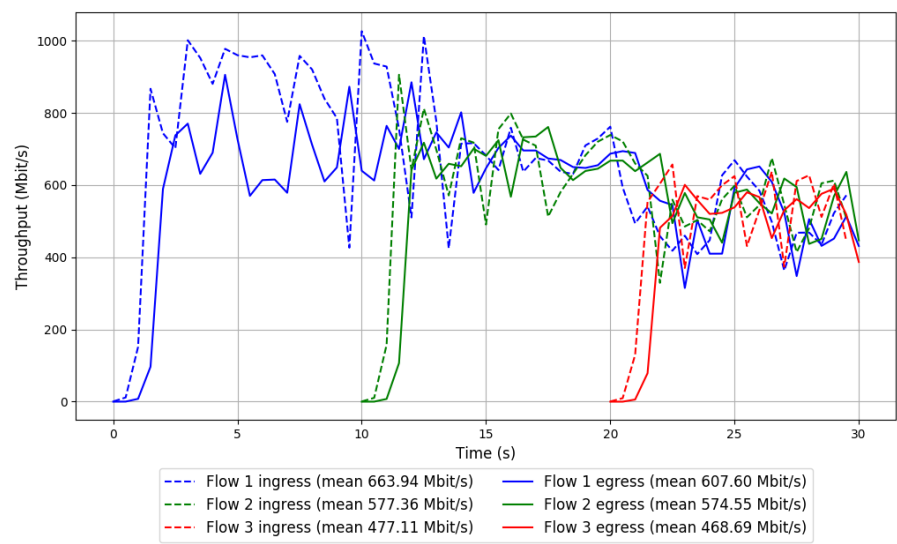
-- Flow 3:

Average throughput: 468.69 Mbit/s

95th percentile per-packet one-way delay: 290.264 ms

Loss rate: 3.48%

Run 7: Report of FillP-Sheep — Data Link



Run 8: Statistics of FillP-Sheep

Start at: 2018-07-04 06:37:43

End at: 2018-07-04 06:38:13

Local clock offset: 0.213 ms

Remote clock offset: 0.117 ms

# Below is generated by plot.py at 2018-07-04 09:06:48

# Datalink statistics

-- Total of 3 flows:

Average throughput: 766.16 Mbit/s

95th percentile per-packet one-way delay: 361.298 ms

Loss rate: 9.91%

-- Flow 1:

Average throughput: 227.13 Mbit/s

95th percentile per-packet one-way delay: 349.648 ms

Loss rate: 8.65%

-- Flow 2:

Average throughput: 560.77 Mbit/s

95th percentile per-packet one-way delay: 371.096 ms

Loss rate: 11.88%

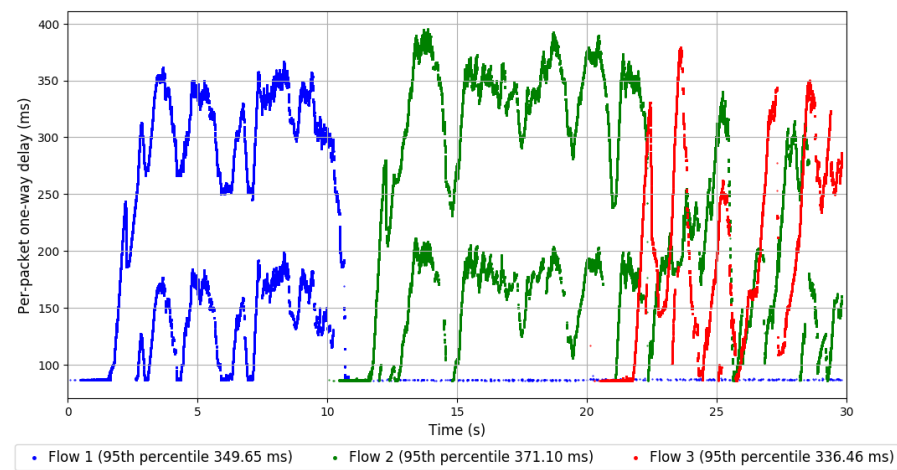
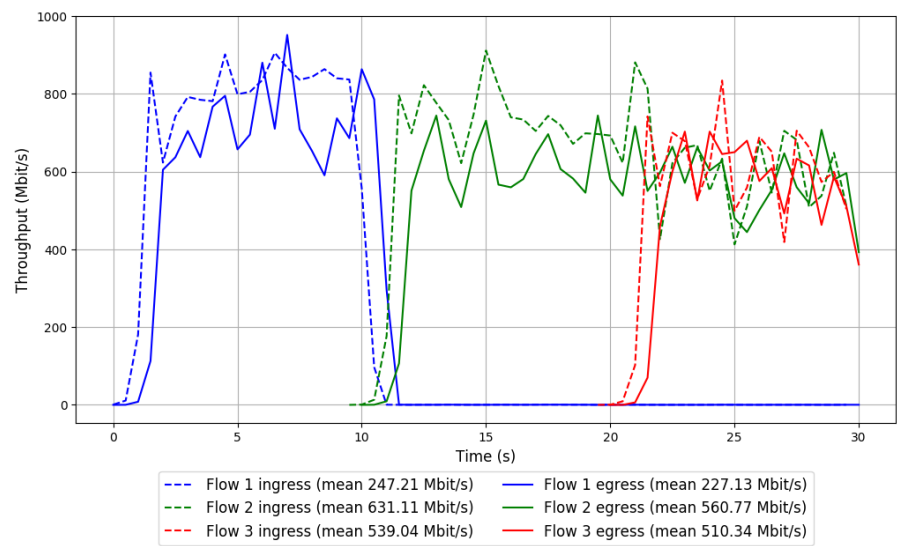
-- Flow 3:

Average throughput: 510.34 Mbit/s

95th percentile per-packet one-way delay: 336.465 ms

Loss rate: 7.00%

Run 8: Report of FillP-Sheep — Data Link



Run 9: Statistics of FillP-Sheep

Start at: 2018-07-04 07:02:03

End at: 2018-07-04 07:02:33

Local clock offset: -0.007 ms

Remote clock offset: 0.079 ms

# Below is generated by plot.py at 2018-07-04 09:09:05

# Datalink statistics

-- Total of 3 flows:

Average throughput: 1109.16 Mbit/s

95th percentile per-packet one-way delay: 331.821 ms

Loss rate: 4.70%

-- Flow 1:

Average throughput: 597.35 Mbit/s

95th percentile per-packet one-way delay: 332.831 ms

Loss rate: 3.62%

-- Flow 2:

Average throughput: 525.94 Mbit/s

95th percentile per-packet one-way delay: 341.196 ms

Loss rate: 6.87%

-- Flow 3:

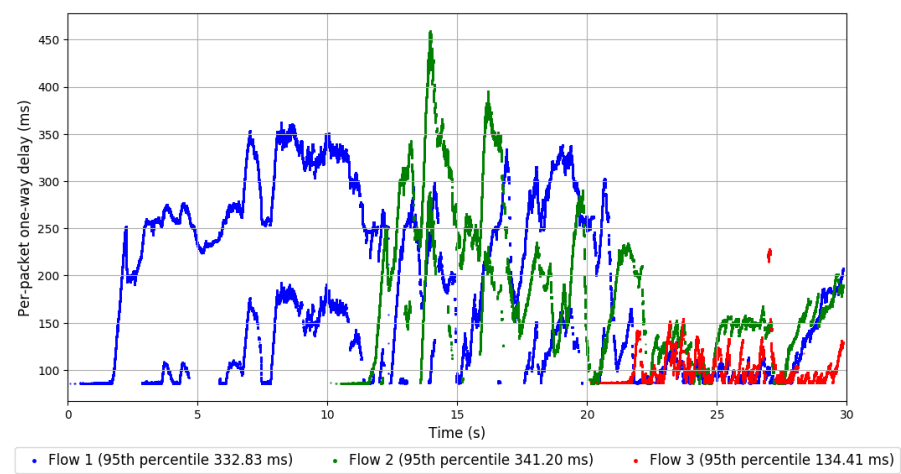
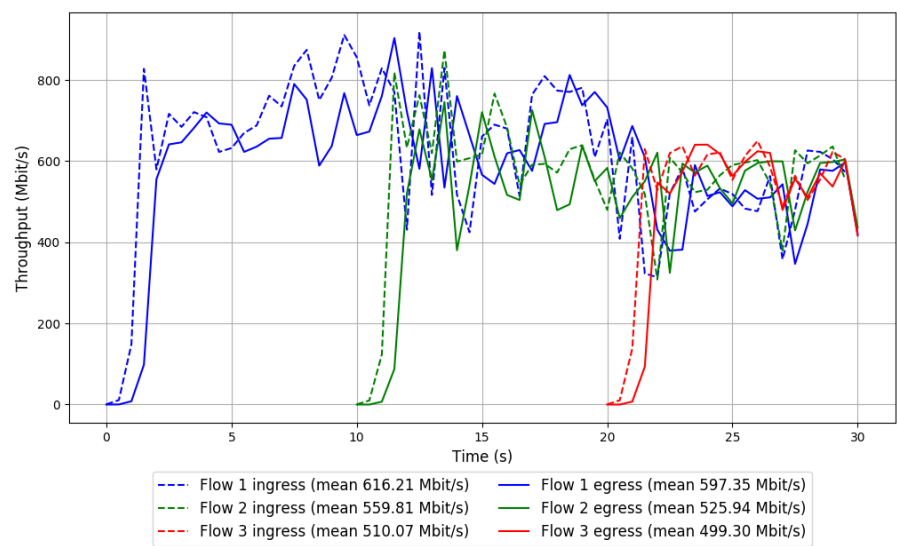
Average throughput: 499.30 Mbit/s

95th percentile per-packet one-way delay: 134.414 ms

Loss rate: 3.84%



Run 9: Report of FillP-Sheep — Data Link

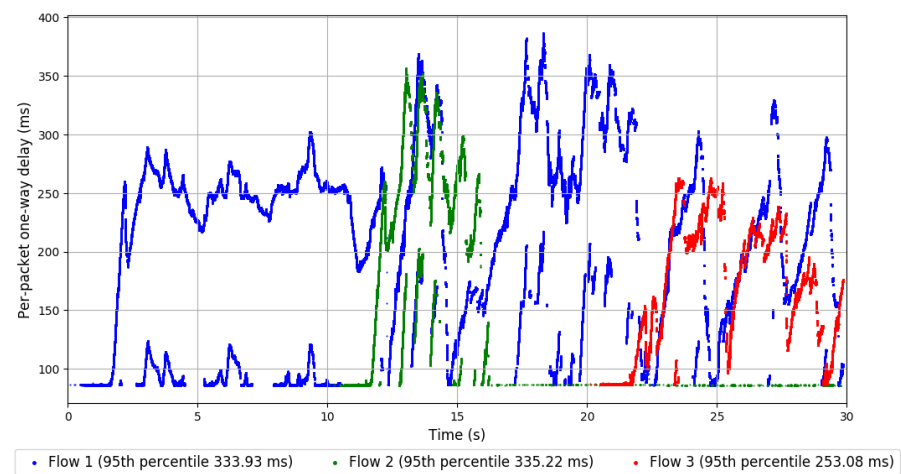
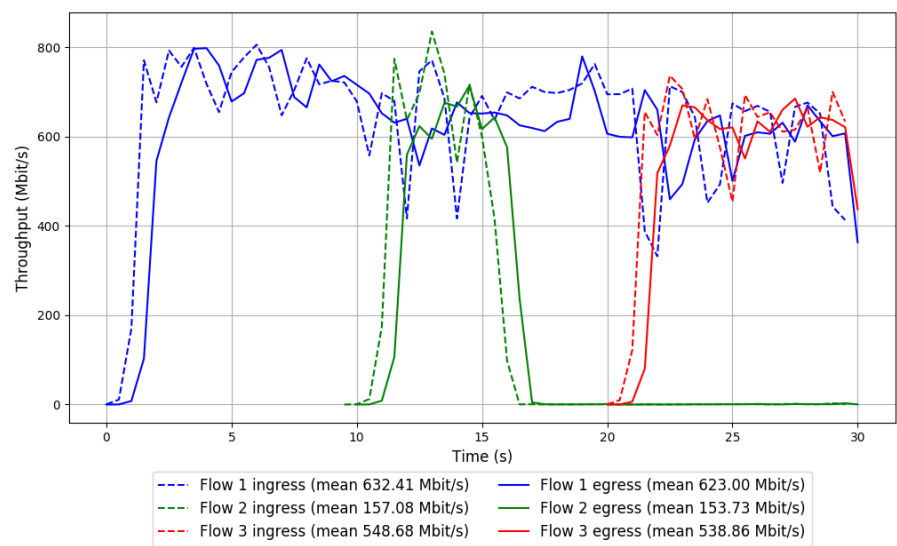


Run 10: Statistics of FillP-Sheep

Start at: 2018-07-04 07:26:59  
End at: 2018-07-04 07:27:29  
Local clock offset: 0.151 ms  
Remote clock offset: -0.037 ms

# Below is generated by plot.py at 2018-07-04 09:09:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 901.02 Mbit/s  
95th percentile per-packet one-way delay: 329.268 ms  
Loss rate: 2.51%  
-- Flow 1:  
Average throughput: 623.00 Mbit/s  
95th percentile per-packet one-way delay: 333.930 ms  
Loss rate: 2.06%  
-- Flow 2:  
Average throughput: 153.73 Mbit/s  
95th percentile per-packet one-way delay: 335.222 ms  
Loss rate: 3.45%  
-- Flow 3:  
Average throughput: 538.86 Mbit/s  
95th percentile per-packet one-way delay: 253.077 ms  
Loss rate: 3.52%

Run 10: Report of FillP-Sheep — Data Link

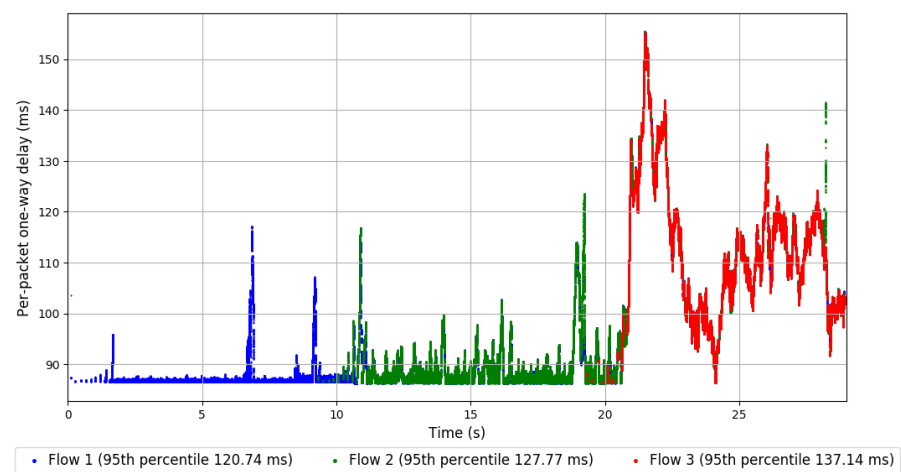
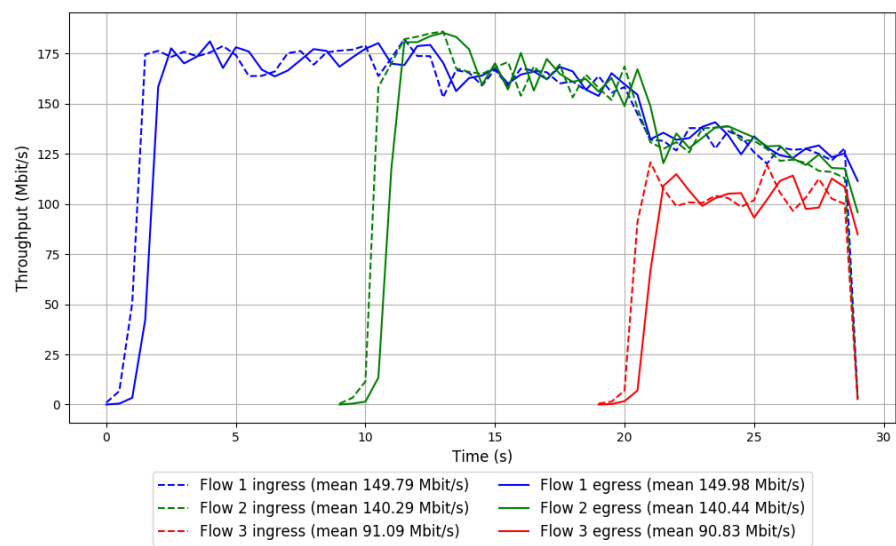


```
Run 1: Statistics of Indigo

Start at: 2018-07-04 03:33:11
End at: 2018-07-04 03:33:41
Local clock offset: 0.165 ms
Remote clock offset: 0.065 ms

# Below is generated by plot.py at 2018-07-04 09:09:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 275.71 Mbit/s
95th percentile per-packet one-way delay: 127.589 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 149.98 Mbit/s
95th percentile per-packet one-way delay: 120.741 ms
Loss rate: 0.53%
-- Flow 2:
Average throughput: 140.44 Mbit/s
95th percentile per-packet one-way delay: 127.768 ms
Loss rate: 0.77%
-- Flow 3:
Average throughput: 90.83 Mbit/s
95th percentile per-packet one-way delay: 137.140 ms
Loss rate: 2.07%
```

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2018-07-04 03:58:11

End at: 2018-07-04 03:58:41

Local clock offset: 0.207 ms

Remote clock offset: 0.055 ms

# Below is generated by plot.py at 2018-07-04 09:09:05

# Datalink statistics

-- Total of 3 flows:

Average throughput: 265.01 Mbit/s

95th percentile per-packet one-way delay: 139.231 ms

Loss rate: 0.83%

-- Flow 1:

Average throughput: 145.18 Mbit/s

95th percentile per-packet one-way delay: 129.244 ms

Loss rate: 0.52%

-- Flow 2:

Average throughput: 131.54 Mbit/s

95th percentile per-packet one-way delay: 138.975 ms

Loss rate: 0.87%

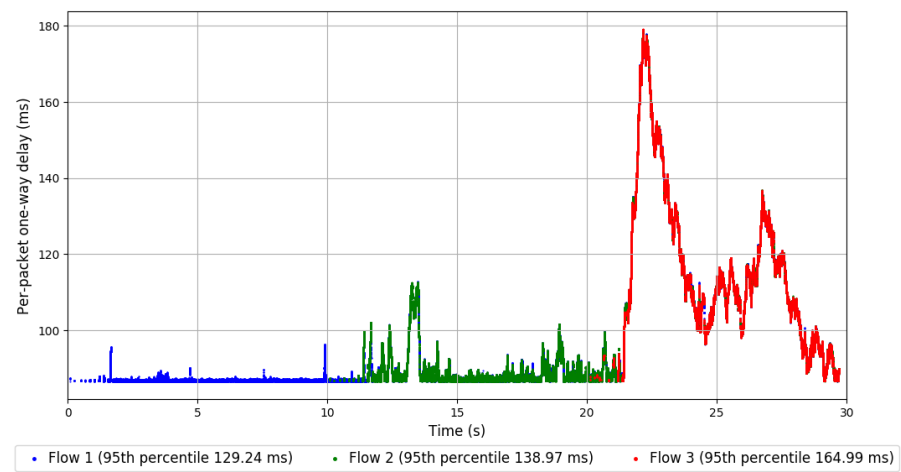
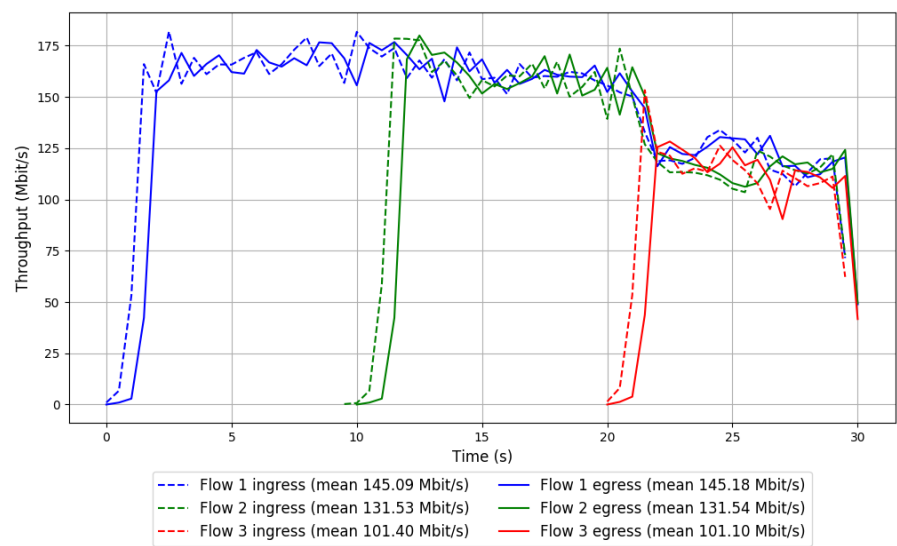
-- Flow 3:

Average throughput: 101.10 Mbit/s

95th percentile per-packet one-way delay: 164.992 ms

Loss rate: 2.08%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-07-04 04:23:07

End at: 2018-07-04 04:23:37

Local clock offset: 0.123 ms

Remote clock offset: 0.087 ms

# Below is generated by plot.py at 2018-07-04 09:09:05

# Datalink statistics

-- Total of 3 flows:

Average throughput: 256.11 Mbit/s

95th percentile per-packet one-way delay: 116.683 ms

Loss rate: 0.88%

-- Flow 1:

Average throughput: 137.89 Mbit/s

95th percentile per-packet one-way delay: 111.999 ms

Loss rate: 0.57%

-- Flow 2:

Average throughput: 123.26 Mbit/s

95th percentile per-packet one-way delay: 116.753 ms

Loss rate: 0.83%

-- Flow 3:

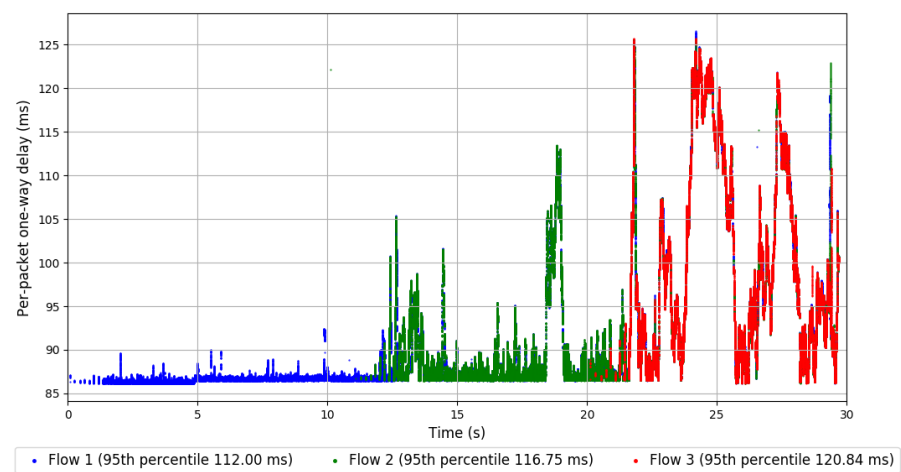
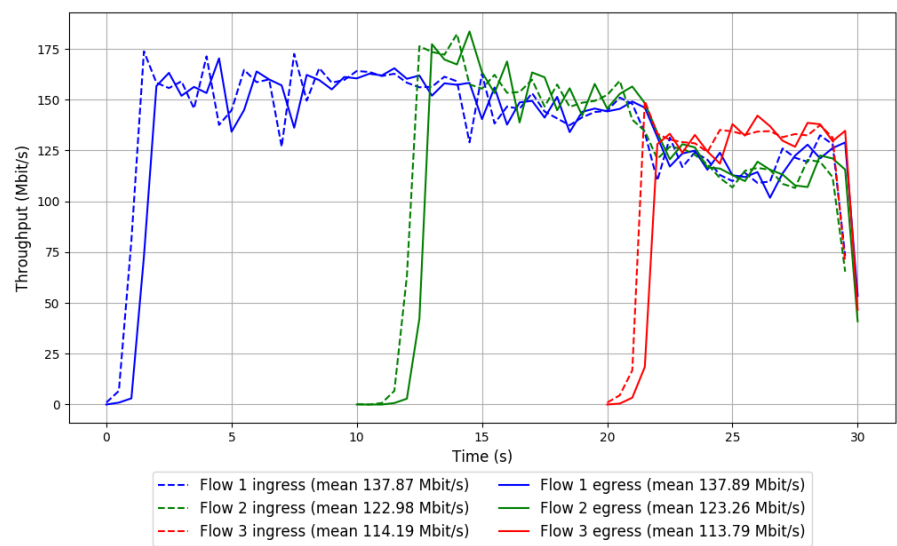
Average throughput: 113.79 Mbit/s

95th percentile per-packet one-way delay: 120.839 ms

Loss rate: 2.12%



Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-07-04 04:47:58

End at: 2018-07-04 04:48:28

Local clock offset: -0.124 ms

Remote clock offset: 0.031 ms

# Below is generated by plot.py at 2018-07-04 09:09:05

# Datalink statistics

-- Total of 3 flows:

Average throughput: 301.42 Mbit/s

95th percentile per-packet one-way delay: 112.718 ms

Loss rate: 0.84%

-- Flow 1:

Average throughput: 170.34 Mbit/s

95th percentile per-packet one-way delay: 109.722 ms

Loss rate: 0.53%

-- Flow 2:

Average throughput: 142.49 Mbit/s

95th percentile per-packet one-way delay: 113.423 ms

Loss rate: 0.87%

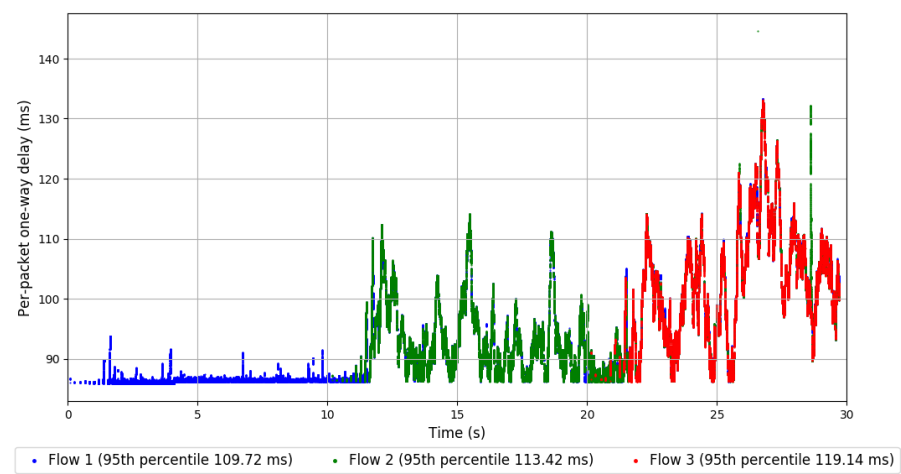
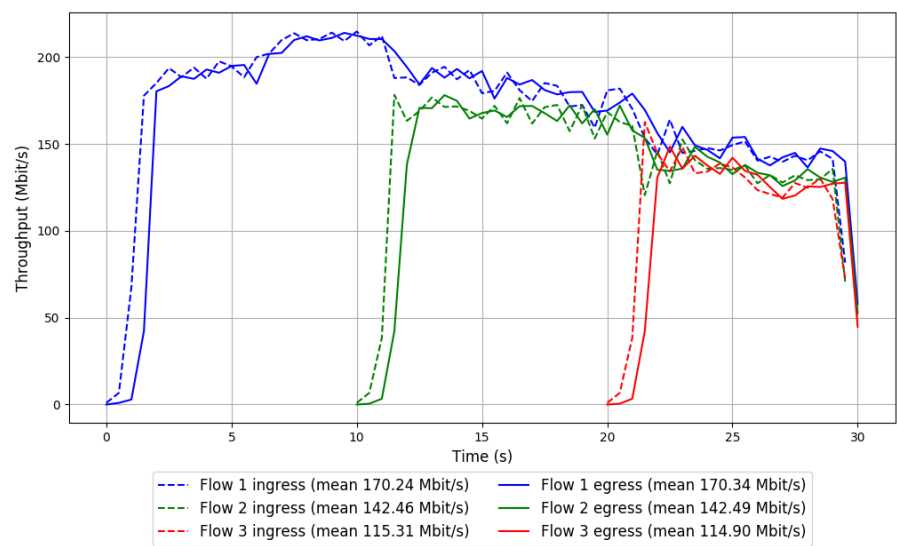
-- Flow 3:

Average throughput: 114.90 Mbit/s

95th percentile per-packet one-way delay: 119.140 ms

Loss rate: 2.14%

Run 4: Report of Indigo — Data Link

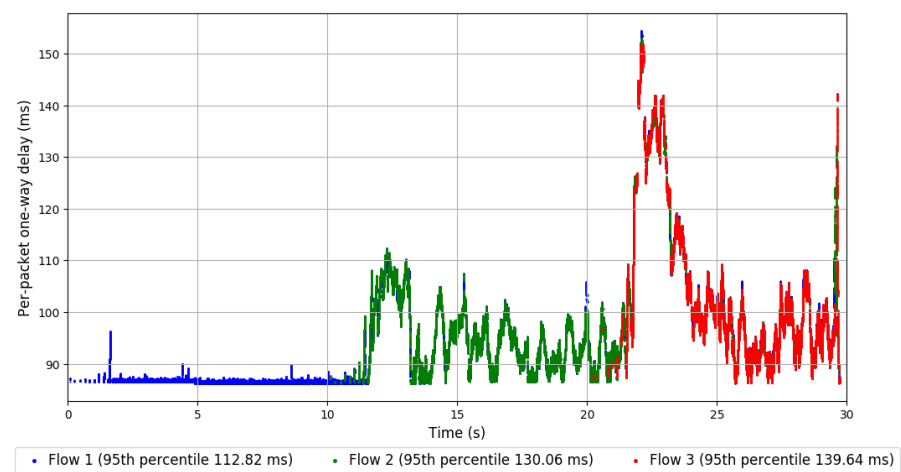
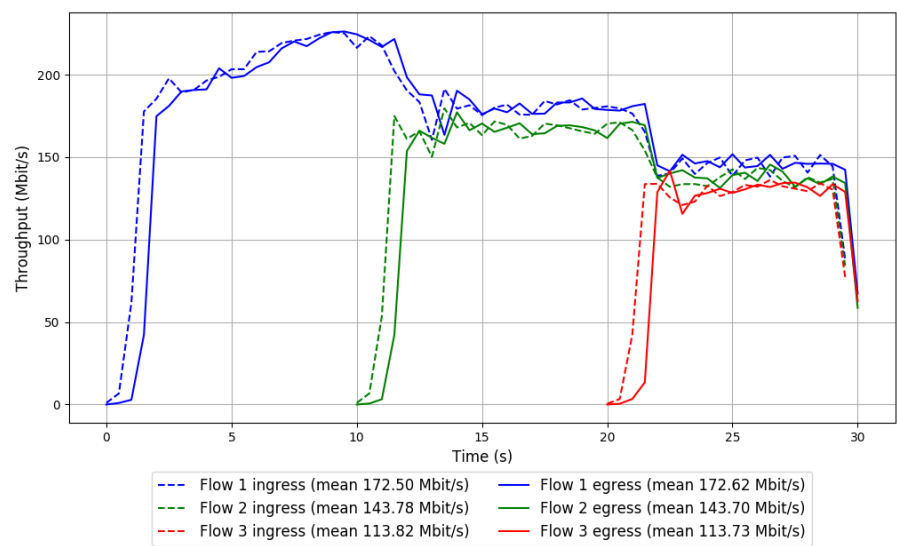


Run 5: Statistics of Indigo

Start at: 2018-07-04 05:12:37  
End at: 2018-07-04 05:13:07  
Local clock offset: 0.127 ms  
Remote clock offset: -0.036 ms

# Below is generated by plot.py at 2018-07-04 09:09:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 304.24 Mbit/s  
95th percentile per-packet one-way delay: 127.407 ms  
Loss rate: 0.81%  
-- Flow 1:  
Average throughput: 172.62 Mbit/s  
95th percentile per-packet one-way delay: 112.818 ms  
Loss rate: 0.51%  
-- Flow 2:  
Average throughput: 143.70 Mbit/s  
95th percentile per-packet one-way delay: 130.060 ms  
Loss rate: 0.94%  
-- Flow 3:  
Average throughput: 113.73 Mbit/s  
95th percentile per-packet one-way delay: 139.636 ms  
Loss rate: 1.88%

Run 5: Report of Indigo — Data Link

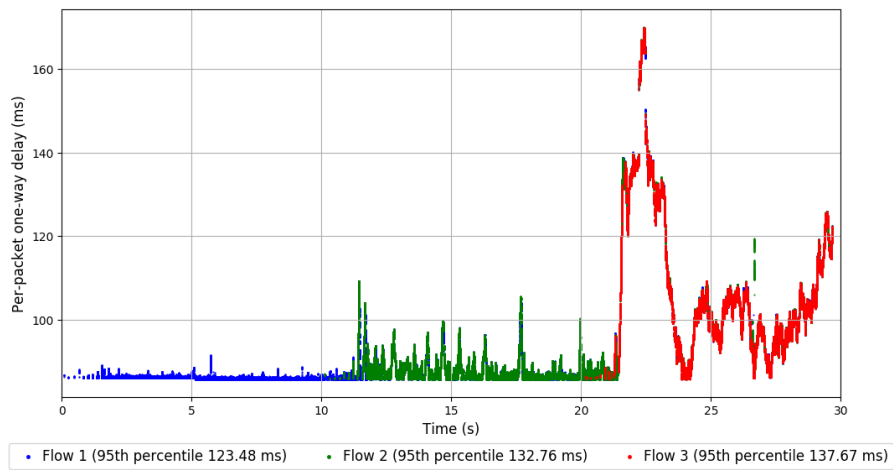
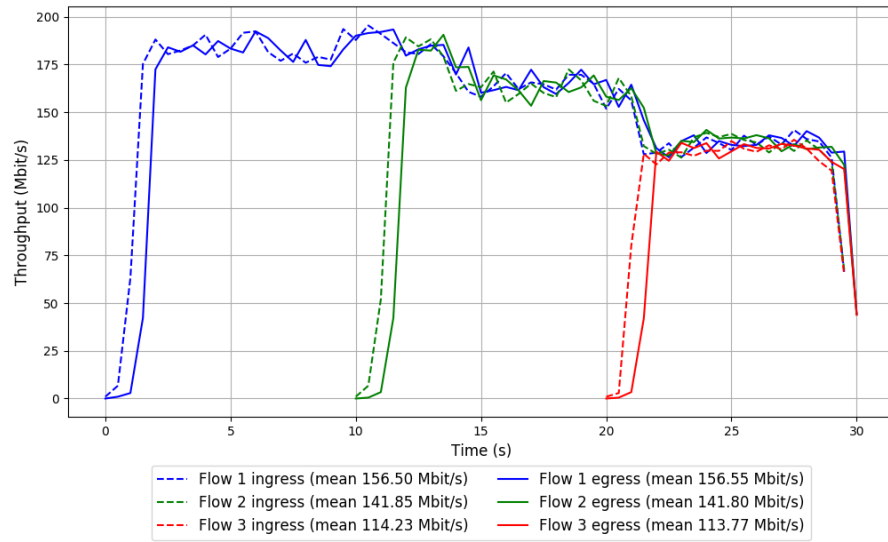


Run 6: Statistics of Indigo

Start at: 2018-07-04 05:37:37  
End at: 2018-07-04 05:38:07  
Local clock offset: -0.048 ms  
Remote clock offset: -0.028 ms

# Below is generated by plot.py at 2018-07-04 09:09:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 286.84 Mbit/s  
95th percentile per-packet one-way delay: 132.324 ms  
Loss rate: 0.88%  
-- Flow 1:  
Average throughput: 156.55 Mbit/s  
95th percentile per-packet one-way delay: 123.480 ms  
Loss rate: 0.55%  
-- Flow 2:  
Average throughput: 141.80 Mbit/s  
95th percentile per-packet one-way delay: 132.760 ms  
Loss rate: 0.91%  
-- Flow 3:  
Average throughput: 113.77 Mbit/s  
95th percentile per-packet one-way delay: 137.668 ms  
Loss rate: 2.19%

## Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2018-07-04 06:02:26

End at: 2018-07-04 06:02:56

Local clock offset: -0.007 ms

Remote clock offset: 0.056 ms

# Below is generated by plot.py at 2018-07-04 09:09:05

# Datalink statistics

-- Total of 3 flows:

Average throughput: 289.79 Mbit/s

95th percentile per-packet one-way delay: 123.459 ms

Loss rate: 0.82%

-- Flow 1:

Average throughput: 158.34 Mbit/s

95th percentile per-packet one-way delay: 119.303 ms

Loss rate: 0.45%

-- Flow 2:

Average throughput: 135.91 Mbit/s

95th percentile per-packet one-way delay: 123.215 ms

Loss rate: 0.95%

-- Flow 3:

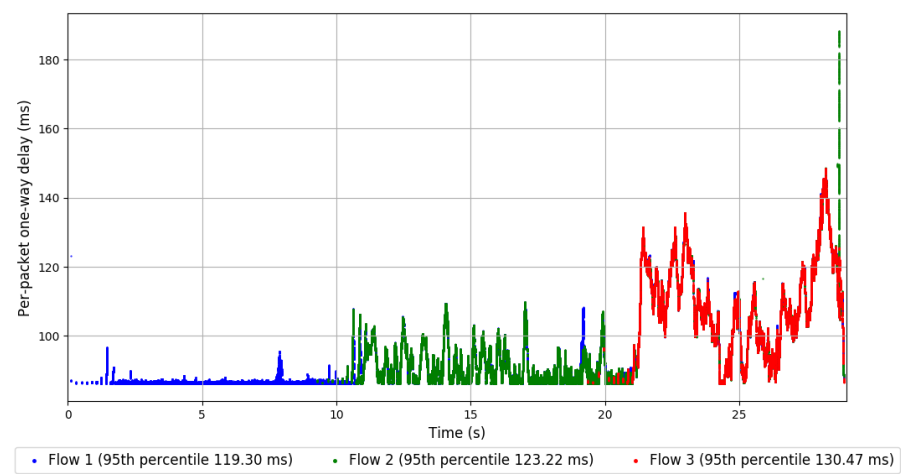
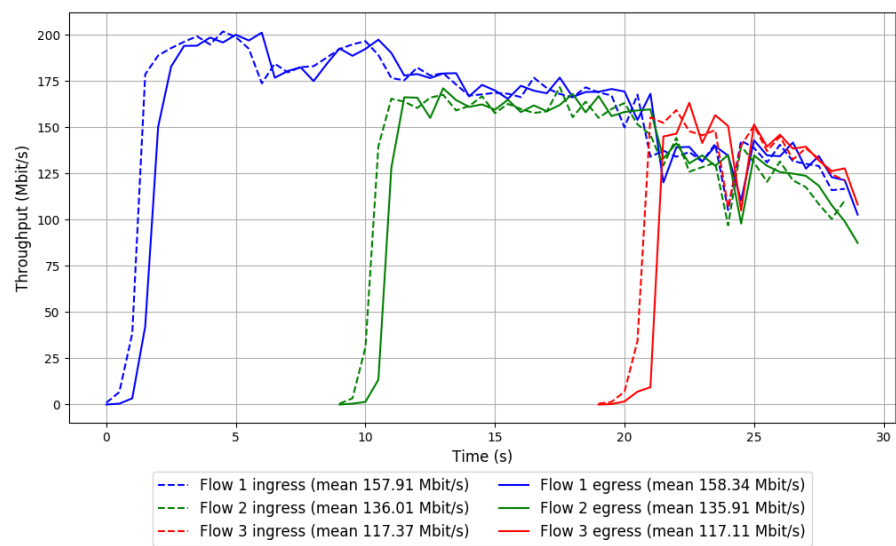
Average throughput: 117.11 Mbit/s

95th percentile per-packet one-way delay: 130.474 ms

Loss rate: 2.02%



Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2018-07-04 06:26:54

End at: 2018-07-04 06:27:24

Local clock offset: 0.203 ms

Remote clock offset: 0.143 ms

# Below is generated by plot.py at 2018-07-04 09:09:05

# Datalink statistics

-- Total of 3 flows:

Average throughput: 271.59 Mbit/s

95th percentile per-packet one-way delay: 117.353 ms

Loss rate: 0.92%

-- Flow 1:

Average throughput: 147.71 Mbit/s

95th percentile per-packet one-way delay: 113.573 ms

Loss rate: 0.62%

-- Flow 2:

Average throughput: 140.45 Mbit/s

95th percentile per-packet one-way delay: 117.717 ms

Loss rate: 0.96%

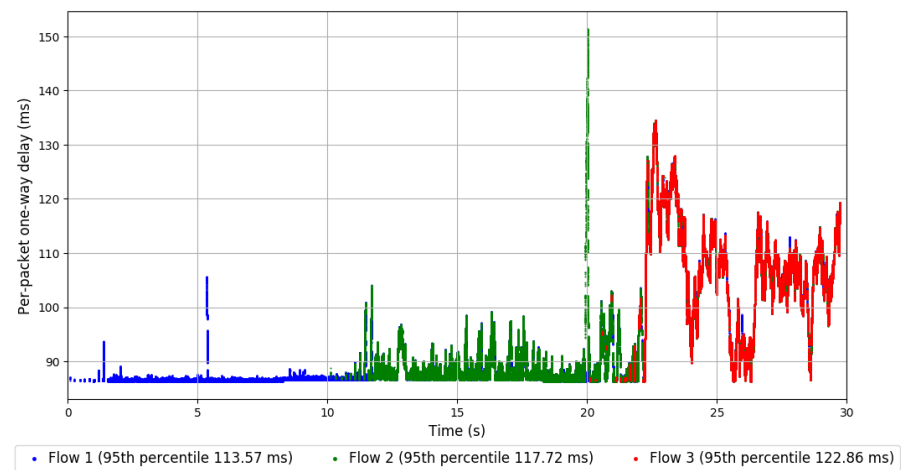
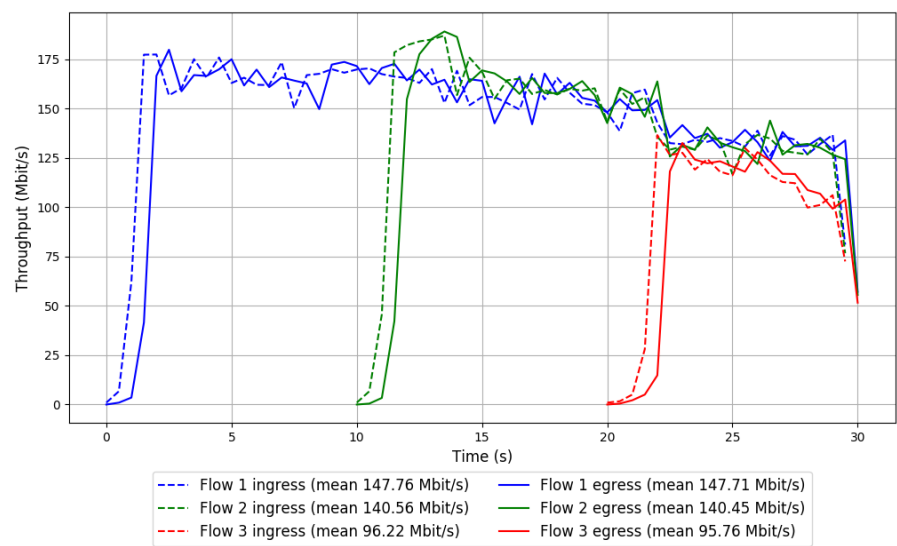
-- Flow 3:

Average throughput: 95.76 Mbit/s

95th percentile per-packet one-way delay: 122.858 ms

Loss rate: 2.23%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2018-07-04 06:51:16

End at: 2018-07-04 06:51:46

Local clock offset: 0.0 ms

Remote clock offset: 0.168 ms

# Below is generated by plot.py at 2018-07-04 09:09:05

# Datalink statistics

-- Total of 3 flows:

Average throughput: 276.13 Mbit/s

95th percentile per-packet one-way delay: 114.015 ms

Loss rate: 0.77%

-- Flow 1:

Average throughput: 149.12 Mbit/s

95th percentile per-packet one-way delay: 106.953 ms

Loss rate: 0.49%

-- Flow 2:

Average throughput: 139.72 Mbit/s

95th percentile per-packet one-way delay: 115.038 ms

Loss rate: 0.78%

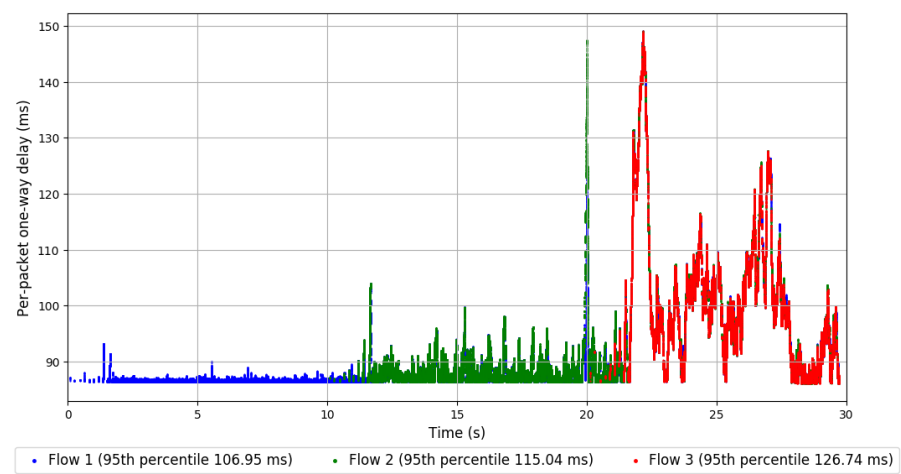
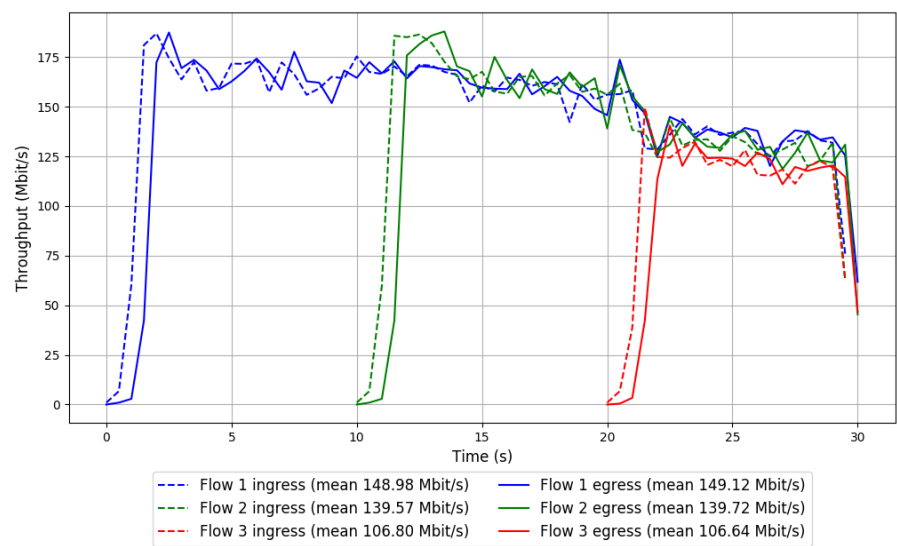
-- Flow 3:

Average throughput: 106.64 Mbit/s

95th percentile per-packet one-way delay: 126.741 ms

Loss rate: 1.92%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-07-04 07:16:11

End at: 2018-07-04 07:16:41

Local clock offset: 0.04 ms

Remote clock offset: 0.009 ms

# Below is generated by plot.py at 2018-07-04 09:09:05

# Datalink statistics

-- Total of 3 flows:

Average throughput: 268.61 Mbit/s

95th percentile per-packet one-way delay: 151.460 ms

Loss rate: 0.80%

-- Flow 1:

Average throughput: 142.76 Mbit/s

95th percentile per-packet one-way delay: 137.860 ms

Loss rate: 0.50%

-- Flow 2:

Average throughput: 131.59 Mbit/s

95th percentile per-packet one-way delay: 150.802 ms

Loss rate: 0.80%

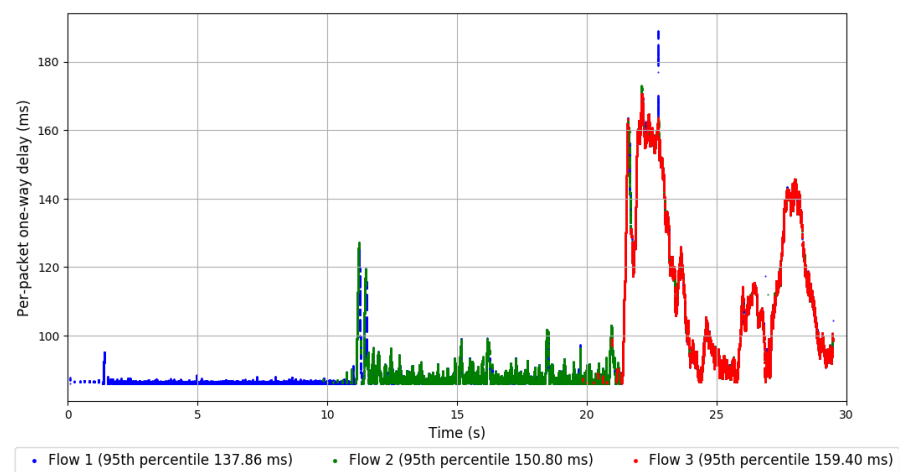
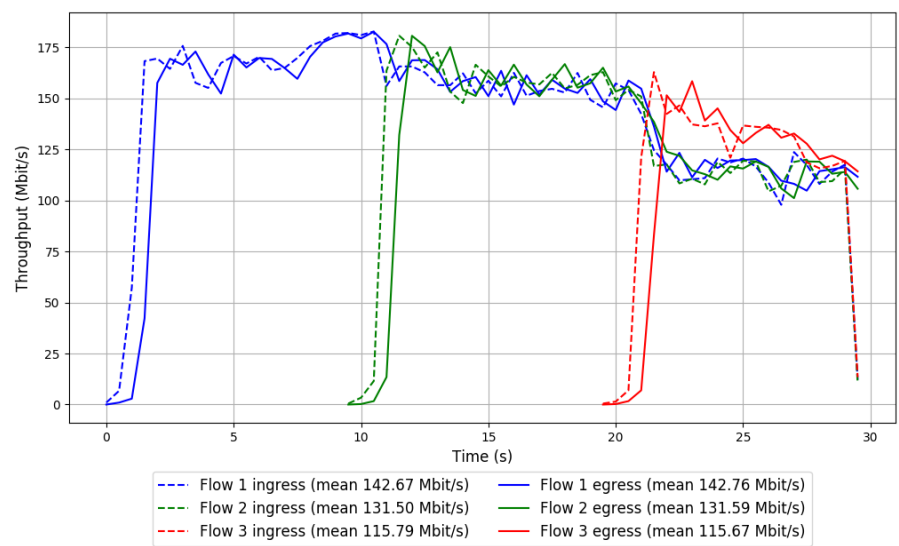
-- Flow 3:

Average throughput: 115.67 Mbit/s

95th percentile per-packet one-way delay: 159.397 ms

Loss rate: 1.93%

Run 10: Report of Indigo — Data Link



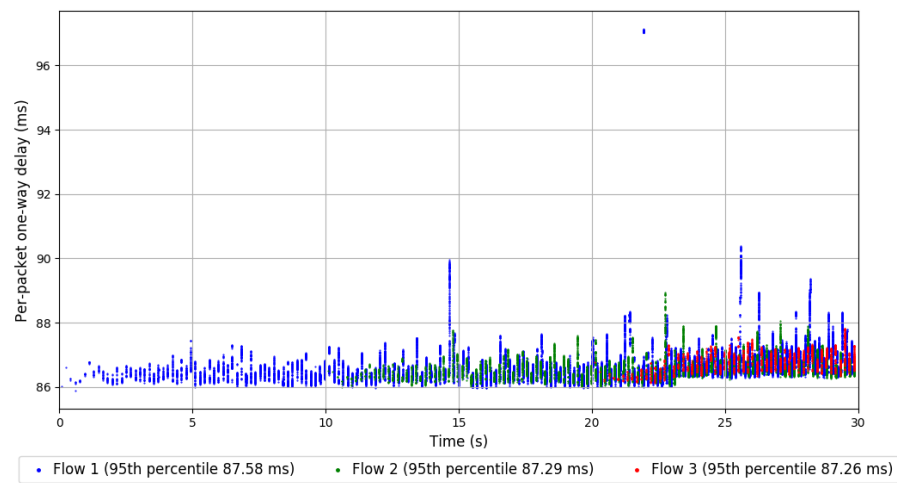
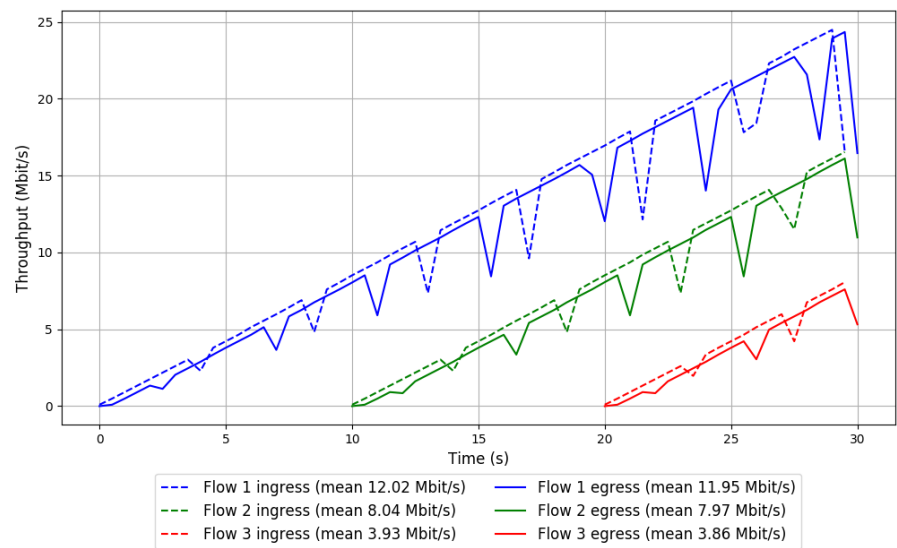
```
Run 1: Statistics of LEDBAT

Start at: 2018-07-04 03:38:49
End at: 2018-07-04 03:39:19
Local clock offset: -0.143 ms
Remote clock offset: 0.091 ms

# Below is generated by plot.py at 2018-07-04 09:09:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 18.45 Mbit/s
95th percentile per-packet one-way delay: 87.462 ms
Loss rate: 1.49%
-- Flow 1:
Average throughput: 11.95 Mbit/s
95th percentile per-packet one-way delay: 87.584 ms
Loss rate: 1.16%
-- Flow 2:
Average throughput: 7.97 Mbit/s
95th percentile per-packet one-way delay: 87.287 ms
Loss rate: 1.74%
-- Flow 3:
Average throughput: 3.86 Mbit/s
95th percentile per-packet one-way delay: 87.262 ms
Loss rate: 3.52%
```



Run 1: Report of LEDBAT — Data Link

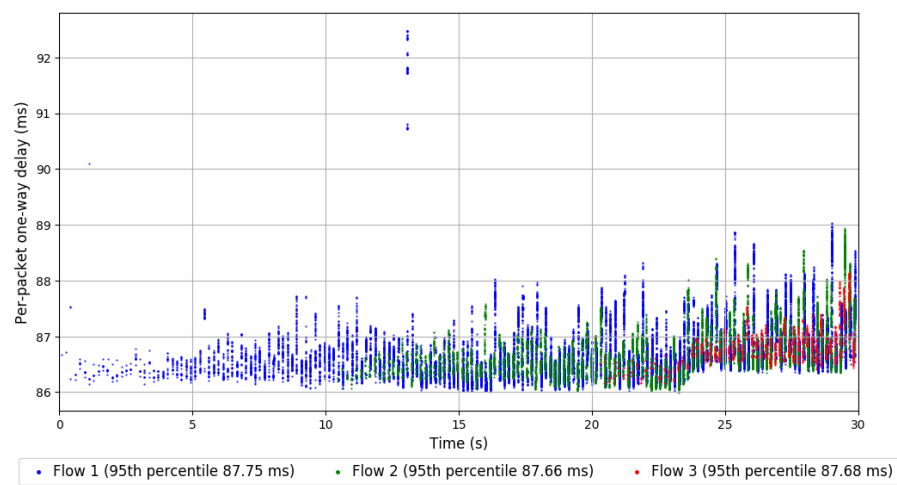
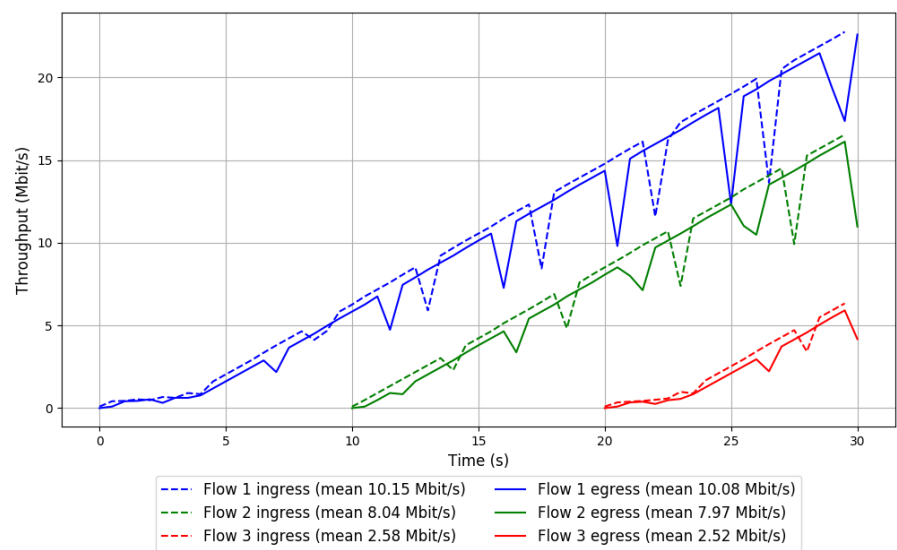


```
Run 2: Statistics of LEDBAT

Start at: 2018-07-04 04:03:39
End at: 2018-07-04 04:04:09
Local clock offset: -0.054 ms
Remote clock offset: 0.037 ms

# Below is generated by plot.py at 2018-07-04 09:09:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 16.18 Mbit/s
95th percentile per-packet one-way delay: 87.714 ms
Loss rate: 1.57%
-- Flow 1:
Average throughput: 10.08 Mbit/s
95th percentile per-packet one-way delay: 87.749 ms
Loss rate: 1.26%
-- Flow 2:
Average throughput: 7.97 Mbit/s
95th percentile per-packet one-way delay: 87.659 ms
Loss rate: 1.74%
-- Flow 3:
Average throughput: 2.52 Mbit/s
95th percentile per-packet one-way delay: 87.680 ms
Loss rate: 4.23%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-07-04 04:28:38

End at: 2018-07-04 04:29:08

Local clock offset: 0.028 ms

Remote clock offset: 0.109 ms

# Below is generated by plot.py at 2018-07-04 09:09:05

# Datalink statistics

-- Total of 3 flows:

Average throughput: 18.39 Mbit/s

95th percentile per-packet one-way delay: 87.828 ms

Loss rate: 1.48%

-- Flow 1:

Average throughput: 12.03 Mbit/s

95th percentile per-packet one-way delay: 87.880 ms

Loss rate: 1.15%

-- Flow 2:

Average throughput: 7.96 Mbit/s

95th percentile per-packet one-way delay: 87.748 ms

Loss rate: 1.74%

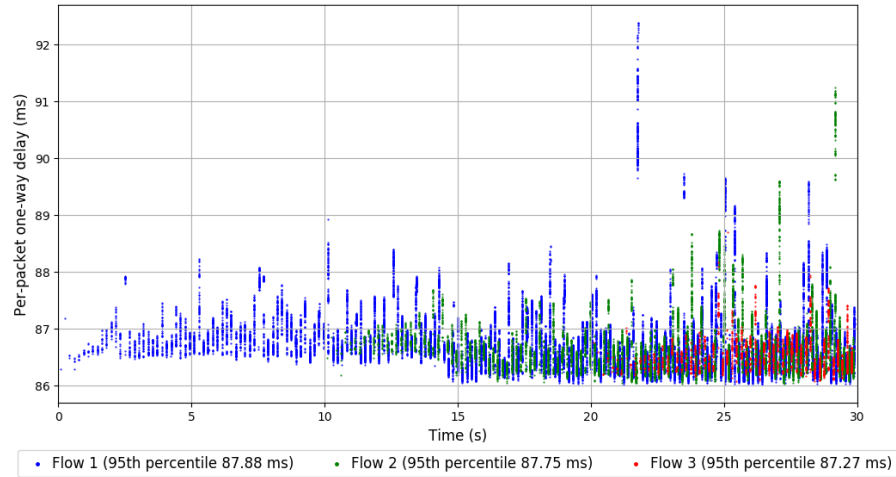
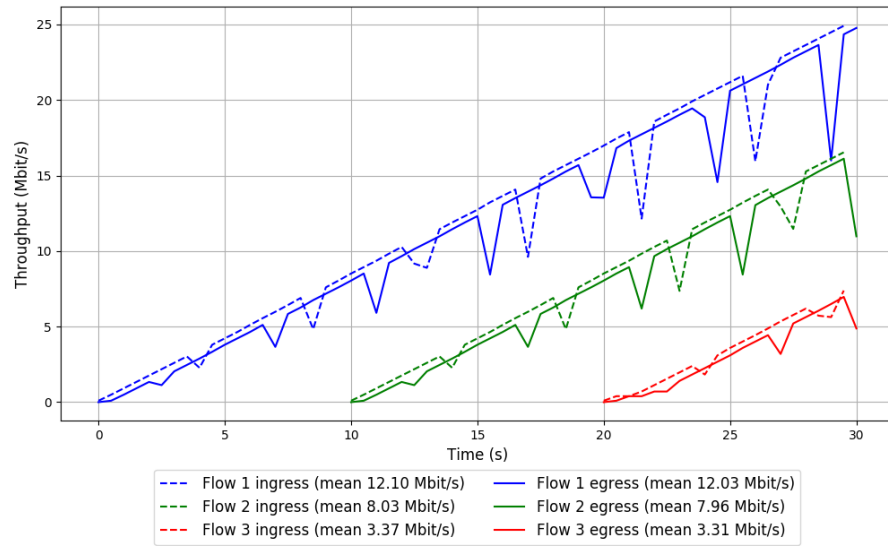
-- Flow 3:

Average throughput: 3.31 Mbit/s

95th percentile per-packet one-way delay: 87.267 ms

Loss rate: 3.77%

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

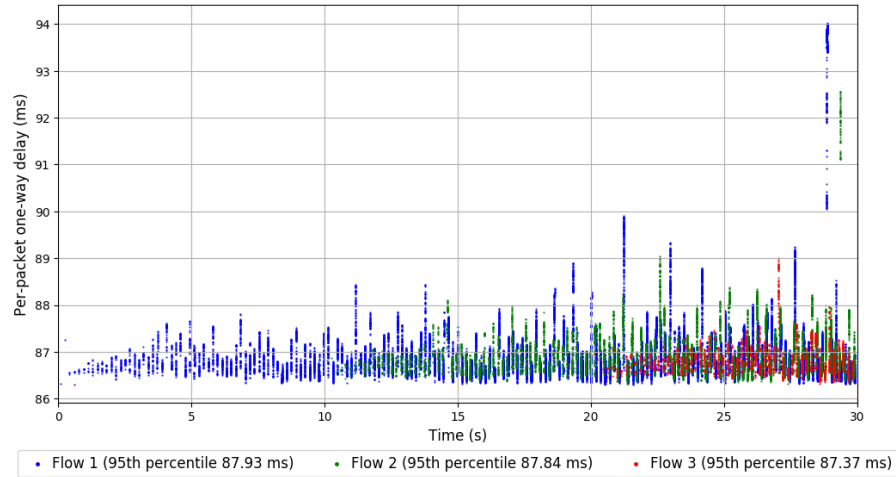
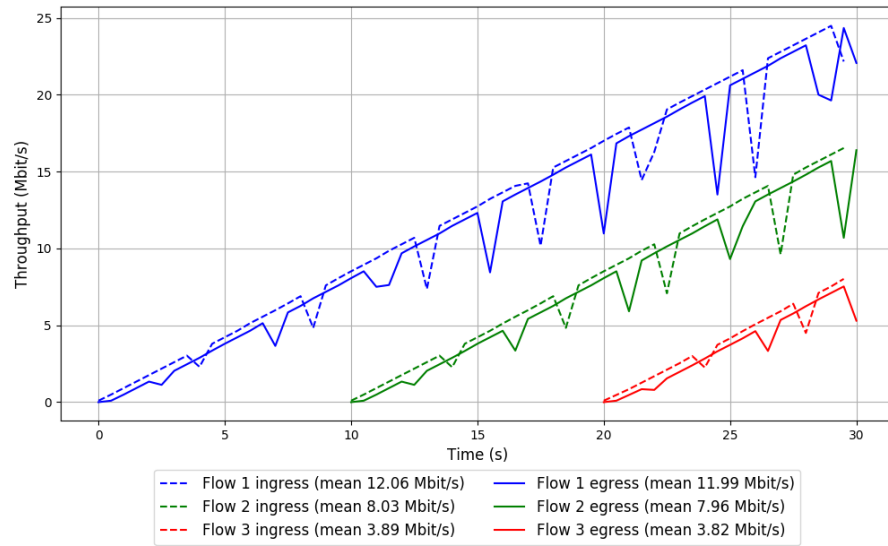


Run 4: Statistics of LEDBAT

Start at: 2018-07-04 04:53:31  
End at: 2018-07-04 04:54:01  
Local clock offset: -0.08 ms  
Remote clock offset: -0.032 ms

# Below is generated by plot.py at 2018-07-04 09:09:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 18.51 Mbit/s  
95th percentile per-packet one-way delay: 87.852 ms  
Loss rate: 1.48%  
-- Flow 1:  
Average throughput: 11.99 Mbit/s  
95th percentile per-packet one-way delay: 87.934 ms  
Loss rate: 1.15%  
-- Flow 2:  
Average throughput: 7.96 Mbit/s  
95th percentile per-packet one-way delay: 87.839 ms  
Loss rate: 1.74%  
-- Flow 3:  
Average throughput: 3.82 Mbit/s  
95th percentile per-packet one-way delay: 87.371 ms  
Loss rate: 3.54%

# Run 4: Report of LEDBAT — Data Link



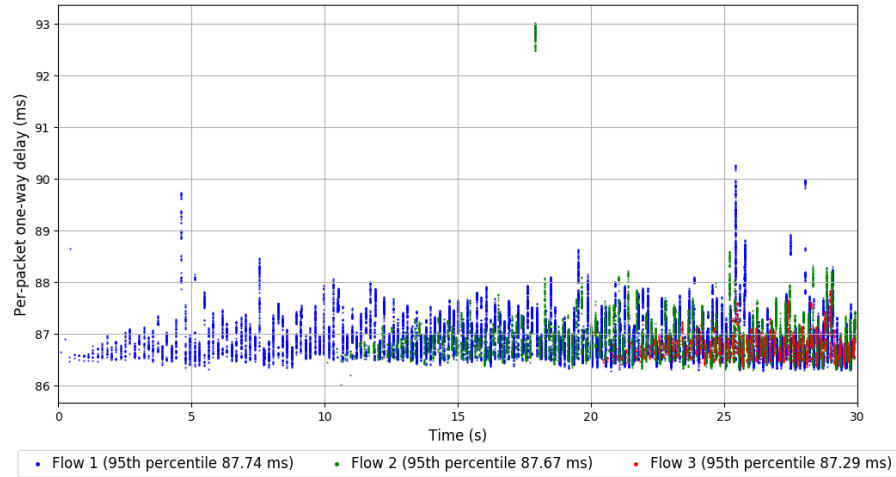
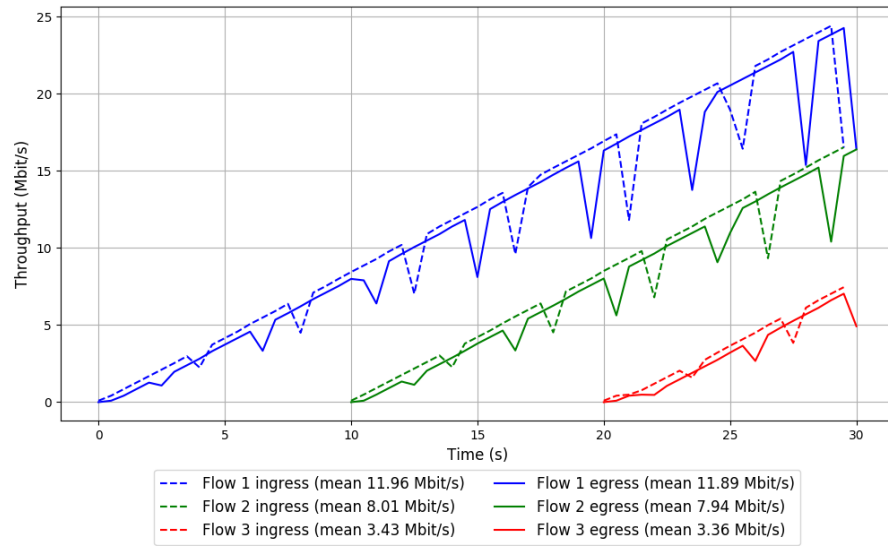
Run 5: Statistics of LEDBAT

Start at: 2018-07-04 05:18:10  
End at: 2018-07-04 05:18:40  
Local clock offset: -0.014 ms  
Remote clock offset: -0.002 ms

# Below is generated by plot.py at 2018-07-04 09:09:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 18.20 Mbit/s  
95th percentile per-packet one-way delay: 87.707 ms  
Loss rate: 1.49%  
-- Flow 1:  
Average throughput: 11.89 Mbit/s  
95th percentile per-packet one-way delay: 87.741 ms  
Loss rate: 1.16%  
-- Flow 2:  
Average throughput: 7.94 Mbit/s  
95th percentile per-packet one-way delay: 87.673 ms  
Loss rate: 1.74%  
-- Flow 3:  
Average throughput: 3.36 Mbit/s  
95th percentile per-packet one-way delay: 87.292 ms  
Loss rate: 3.73%



## Run 5: Report of LEDBAT — Data Link

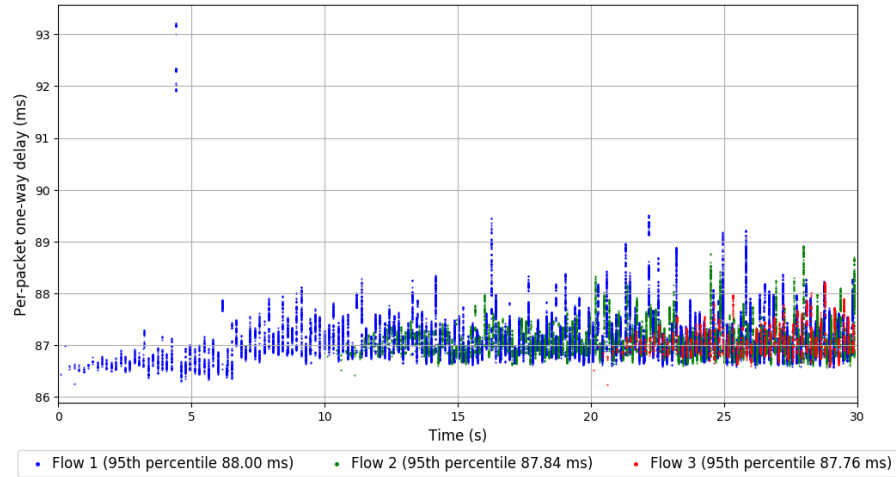
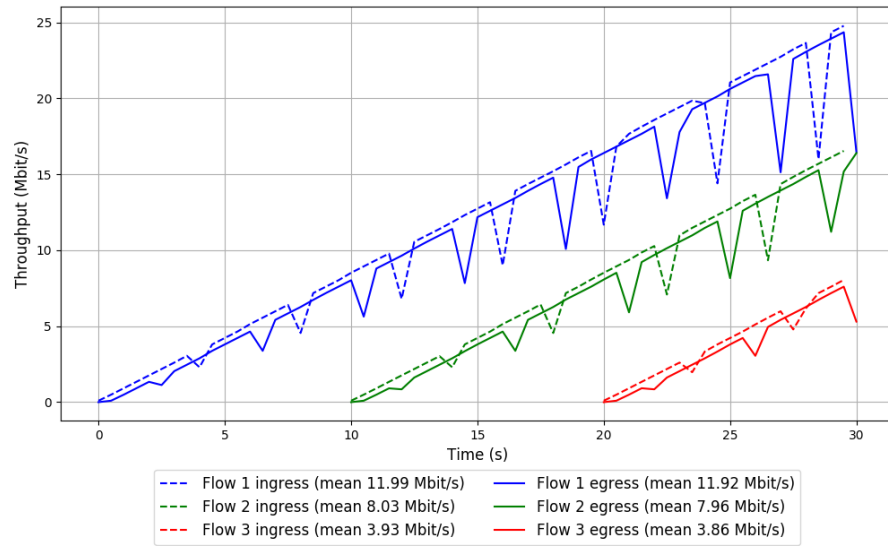


Run 6: Statistics of LEDBAT

Start at: 2018-07-04 05:43:06  
End at: 2018-07-04 05:43:36  
Local clock offset: 0.386 ms  
Remote clock offset: -0.046 ms

# Below is generated by plot.py at 2018-07-04 09:09:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 18.43 Mbit/s  
95th percentile per-packet one-way delay: 87.939 ms  
Loss rate: 1.49%  
-- Flow 1:  
Average throughput: 11.92 Mbit/s  
95th percentile per-packet one-way delay: 87.996 ms  
Loss rate: 1.16%  
-- Flow 2:  
Average throughput: 7.96 Mbit/s  
95th percentile per-packet one-way delay: 87.836 ms  
Loss rate: 1.74%  
-- Flow 3:  
Average throughput: 3.86 Mbit/s  
95th percentile per-packet one-way delay: 87.756 ms  
Loss rate: 3.53%

# Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-07-04 06:07:52

End at: 2018-07-04 06:08:22

Local clock offset: 0.009 ms

Remote clock offset: 0.092 ms

# Below is generated by plot.py at 2018-07-04 09:09:05

# Datalink statistics

-- Total of 3 flows:

Average throughput: 18.17 Mbit/s

95th percentile per-packet one-way delay: 87.767 ms

Loss rate: 1.49%

-- Flow 1:

Average throughput: 11.95 Mbit/s

95th percentile per-packet one-way delay: 87.843 ms

Loss rate: 1.16%

-- Flow 2:

Average throughput: 7.75 Mbit/s

95th percentile per-packet one-way delay: 87.608 ms

Loss rate: 1.76%

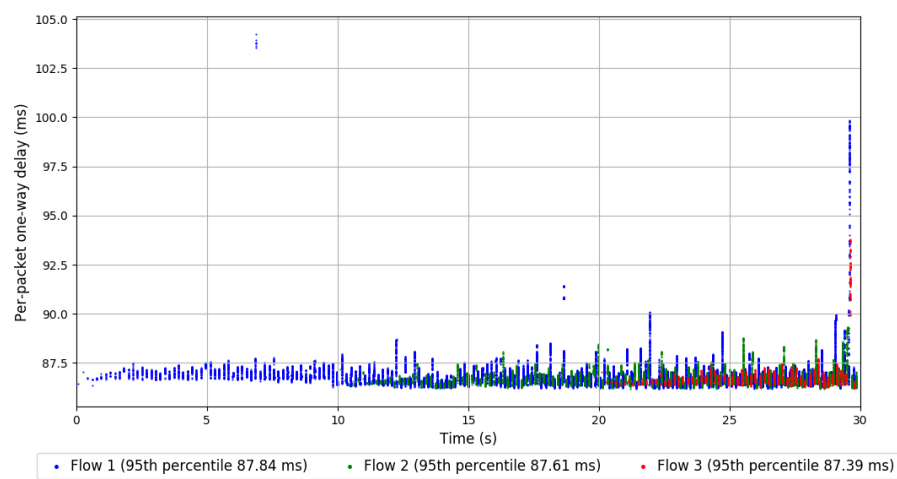
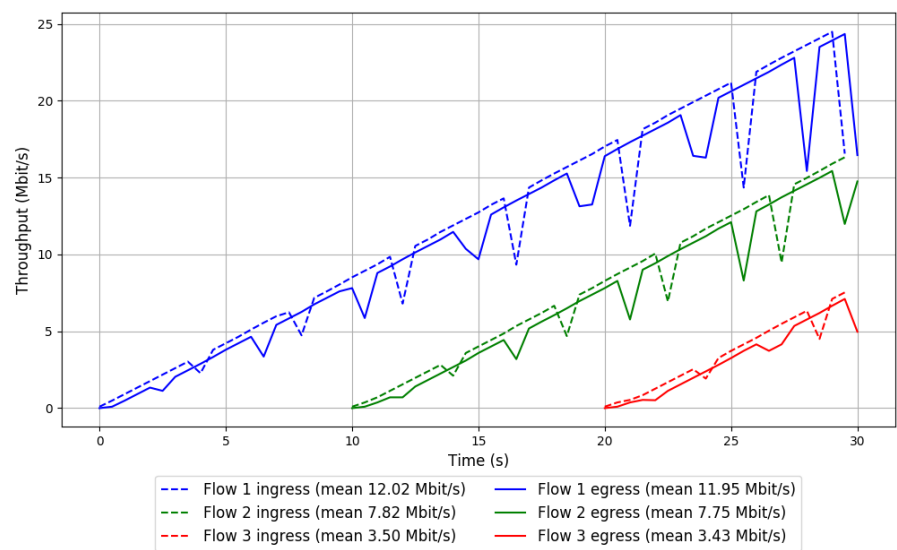
-- Flow 3:

Average throughput: 3.43 Mbit/s

95th percentile per-packet one-way delay: 87.386 ms

Loss rate: 3.71%

Run 7: Report of LEDBAT — Data Link

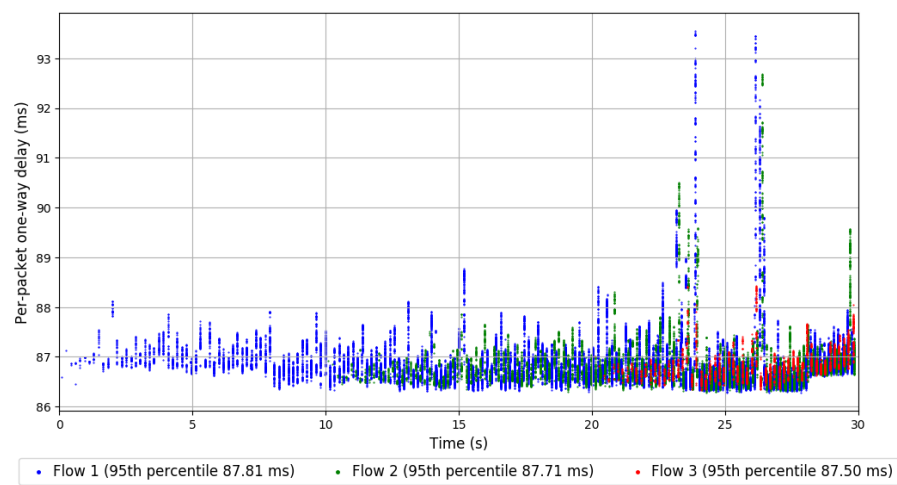
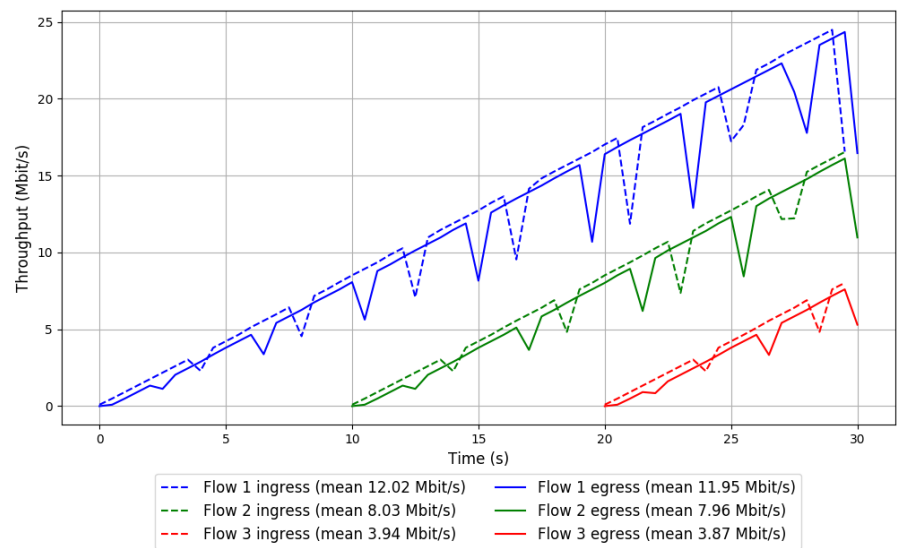


```
Run 8: Statistics of LEDBAT

Start at: 2018-07-04 06:32:24
End at: 2018-07-04 06:32:54
Local clock offset: 0.142 ms
Remote clock offset: 0.11 ms

# Below is generated by plot.py at 2018-07-04 09:09:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 18.45 Mbit/s
95th percentile per-packet one-way delay: 87.747 ms
Loss rate: 1.49%
-- Flow 1:
Average throughput: 11.95 Mbit/s
95th percentile per-packet one-way delay: 87.806 ms
Loss rate: 1.16%
-- Flow 2:
Average throughput: 7.96 Mbit/s
95th percentile per-packet one-way delay: 87.710 ms
Loss rate: 1.74%
-- Flow 3:
Average throughput: 3.87 Mbit/s
95th percentile per-packet one-way delay: 87.497 ms
Loss rate: 3.50%
```

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-07-04 06:56:42

End at: 2018-07-04 06:57:12

Local clock offset: -0.17 ms

Remote clock offset: 0.11 ms

# Below is generated by plot.py at 2018-07-04 09:09:05

# Datalink statistics

-- Total of 3 flows:

Average throughput: 17.50 Mbit/s

95th percentile per-packet one-way delay: 87.550 ms

Loss rate: 1.48%

-- Flow 1:

Average throughput: 12.02 Mbit/s

95th percentile per-packet one-way delay: 87.632 ms

Loss rate: 1.15%

-- Flow 2:

Average throughput: 7.07 Mbit/s

95th percentile per-packet one-way delay: 87.347 ms

Loss rate: 1.84%

-- Flow 3:

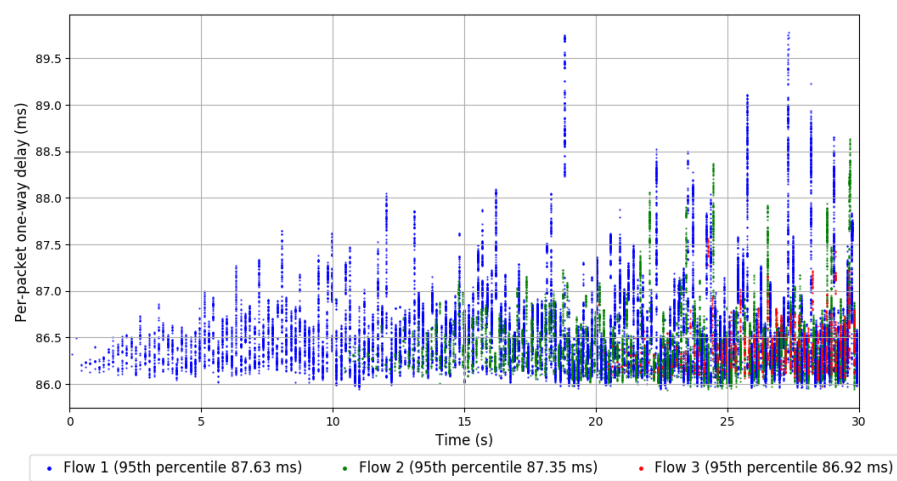
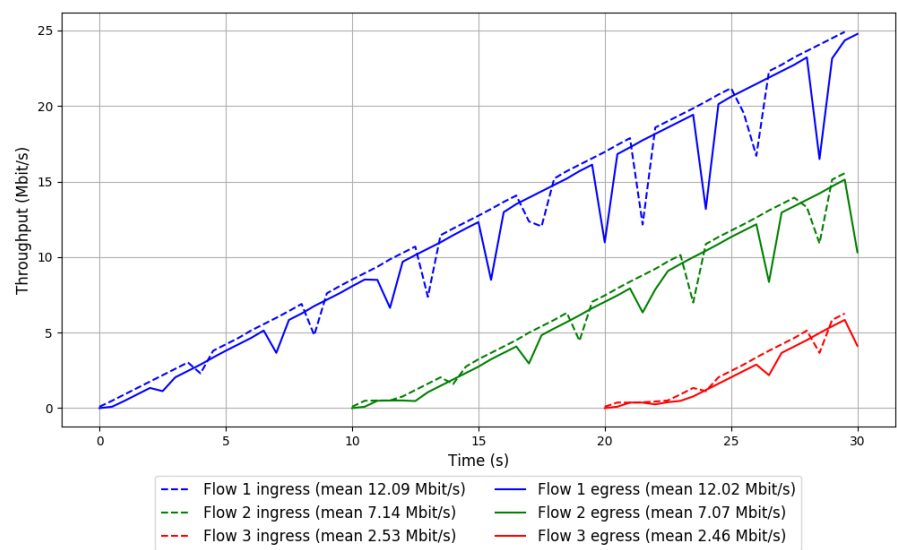
Average throughput: 2.46 Mbit/s

95th percentile per-packet one-way delay: 86.920 ms

Loss rate: 4.28%



Run 9: Report of LEDBAT — Data Link

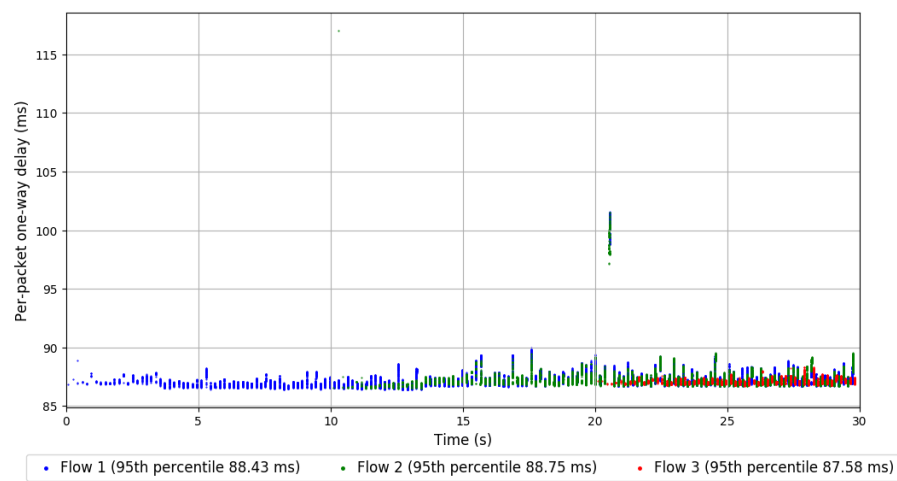
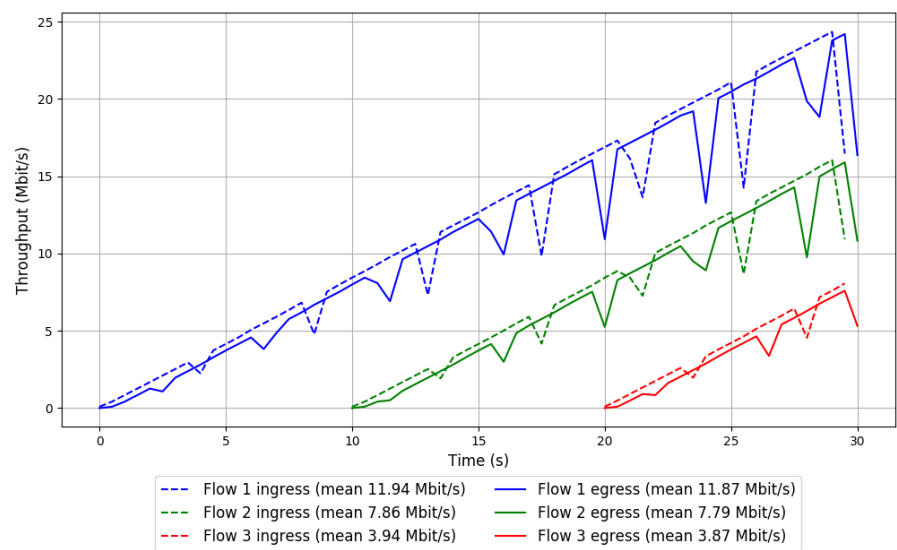


Run 10: Statistics of LEDBAT

Start at: 2018-07-04 07:21:39  
End at: 2018-07-04 07:22:09  
Local clock offset: 0.255 ms  
Remote clock offset: -0.064 ms

# Below is generated by plot.py at 2018-07-04 09:09:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 18.25 Mbit/s  
95th percentile per-packet one-way delay: 88.441 ms  
Loss rate: 1.50%  
-- Flow 1:  
Average throughput: 11.87 Mbit/s  
95th percentile per-packet one-way delay: 88.427 ms  
Loss rate: 1.16%  
-- Flow 2:  
Average throughput: 7.79 Mbit/s  
95th percentile per-packet one-way delay: 88.752 ms  
Loss rate: 1.76%  
-- Flow 3:  
Average throughput: 3.87 Mbit/s  
95th percentile per-packet one-way delay: 87.584 ms  
Loss rate: 3.52%

Run 10: Report of LEDBAT — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2018-07-04 03:46:10

End at: 2018-07-04 03:46:40

Local clock offset: 0.157 ms

Remote clock offset: 0.041 ms

# Below is generated by plot.py at 2018-07-04 09:10:07

# Datalink statistics

-- Total of 3 flows:

Average throughput: 333.95 Mbit/s

95th percentile per-packet one-way delay: 257.826 ms

Loss rate: 1.82%

-- Flow 1:

Average throughput: 273.24 Mbit/s

95th percentile per-packet one-way delay: 255.772 ms

Loss rate: 1.66%

-- Flow 2:

Average throughput: 61.95 Mbit/s

95th percentile per-packet one-way delay: 258.514 ms

Loss rate: 1.79%

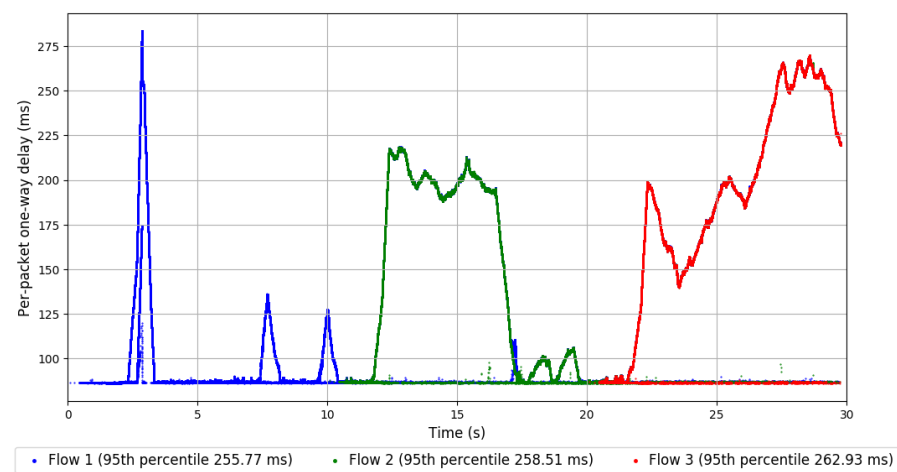
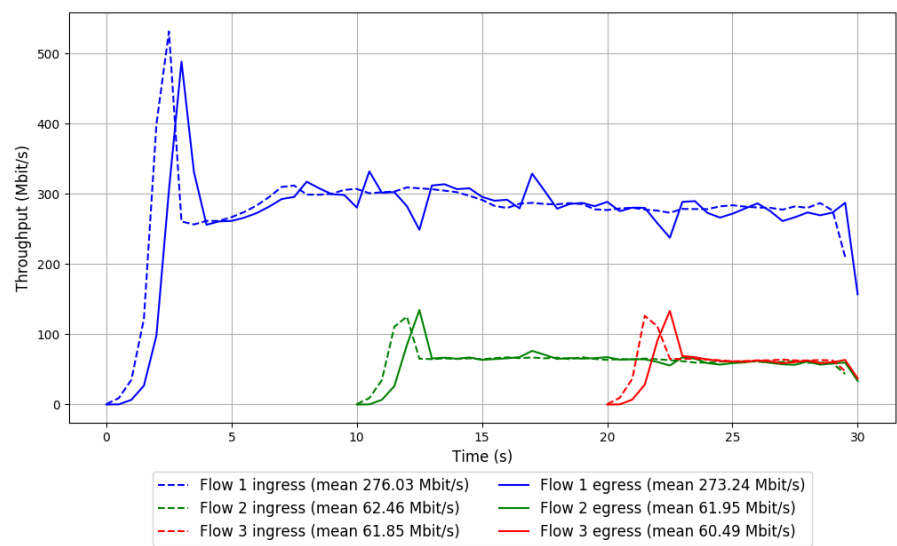
-- Flow 3:

Average throughput: 60.49 Mbit/s

95th percentile per-packet one-way delay: 262.927 ms

Loss rate: 4.07%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

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

End at: 2018-07-04 04:11:29

Local clock offset: 0.009 ms

Remote clock offset: 0.074 ms

# Below is generated by plot.py at 2018-07-04 09:10:07

# Datalink statistics

-- Total of 3 flows:

Average throughput: 323.71 Mbit/s

95th percentile per-packet one-way delay: 266.424 ms

Loss rate: 2.59%

-- Flow 1:

Average throughput: 280.53 Mbit/s

95th percentile per-packet one-way delay: 266.301 ms

Loss rate: 2.59%

-- Flow 2:

Average throughput: 63.87 Mbit/s

95th percentile per-packet one-way delay: 267.152 ms

Loss rate: 2.61%

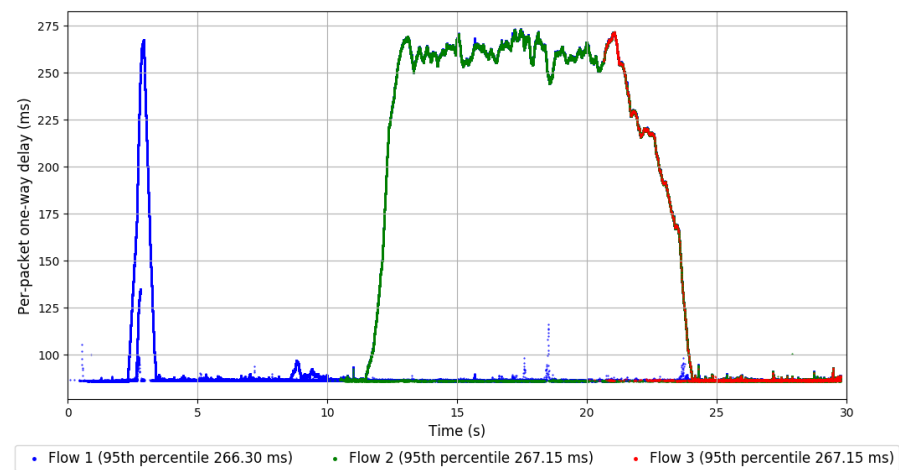
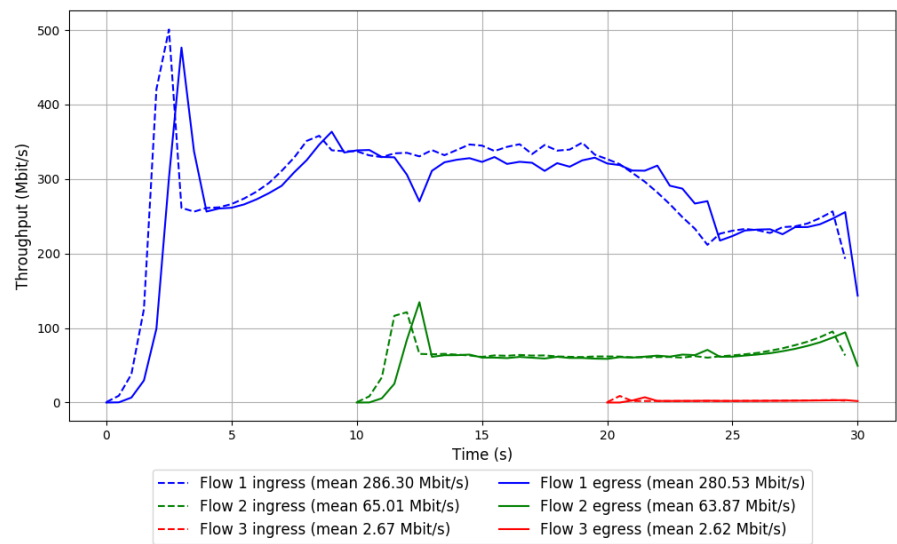
-- Flow 3:

Average throughput: 2.62 Mbit/s

95th percentile per-packet one-way delay: 267.146 ms

Loss rate: 3.45%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-07-04 04:36:03

End at: 2018-07-04 04:36:33

Local clock offset: 0.048 ms

Remote clock offset: 0.137 ms

# Below is generated by plot.py at 2018-07-04 09:10:32

# Datalink statistics

-- Total of 3 flows:

Average throughput: 352.63 Mbit/s

95th percentile per-packet one-way delay: 133.258 ms

Loss rate: 0.91%

-- Flow 1:

Average throughput: 346.29 Mbit/s

95th percentile per-packet one-way delay: 134.235 ms

Loss rate: 0.90%

-- Flow 2:

Average throughput: 8.48 Mbit/s

95th percentile per-packet one-way delay: 118.917 ms

Loss rate: 0.92%

-- Flow 3:

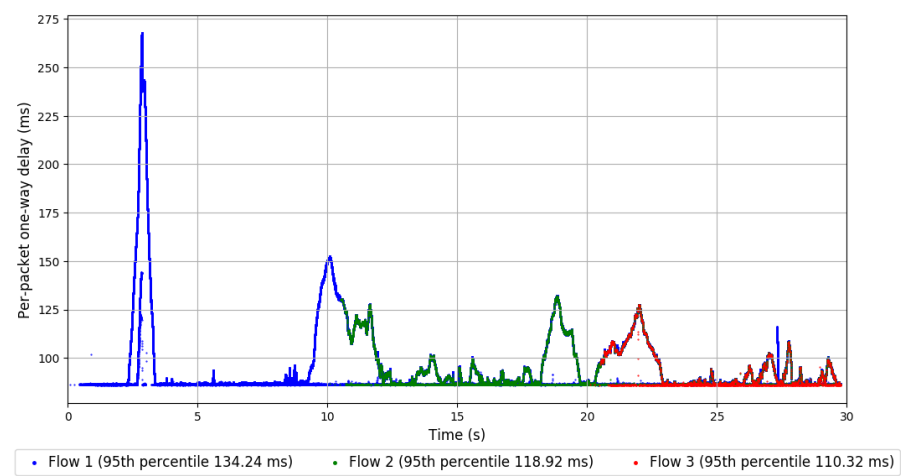
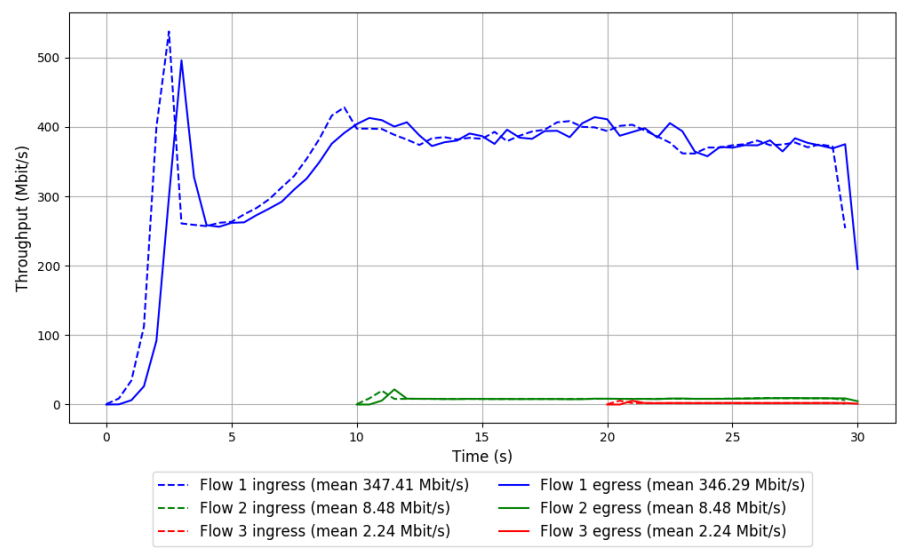
Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 110.316 ms

Loss rate: 2.01%



Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-07-04 05:00:51

End at: 2018-07-04 05:01:21

Local clock offset: -0.137 ms

Remote clock offset: -0.04 ms

# Below is generated by plot.py at 2018-07-04 09:12:01

# Datalink statistics

-- Total of 3 flows:

Average throughput: 355.34 Mbit/s

95th percentile per-packet one-way delay: 201.927 ms

Loss rate: 1.17%

-- Flow 1:

Average throughput: 311.47 Mbit/s

95th percentile per-packet one-way delay: 200.791 ms

Loss rate: 1.07%

-- Flow 2:

Average throughput: 35.58 Mbit/s

95th percentile per-packet one-way delay: 201.819 ms

Loss rate: 1.39%

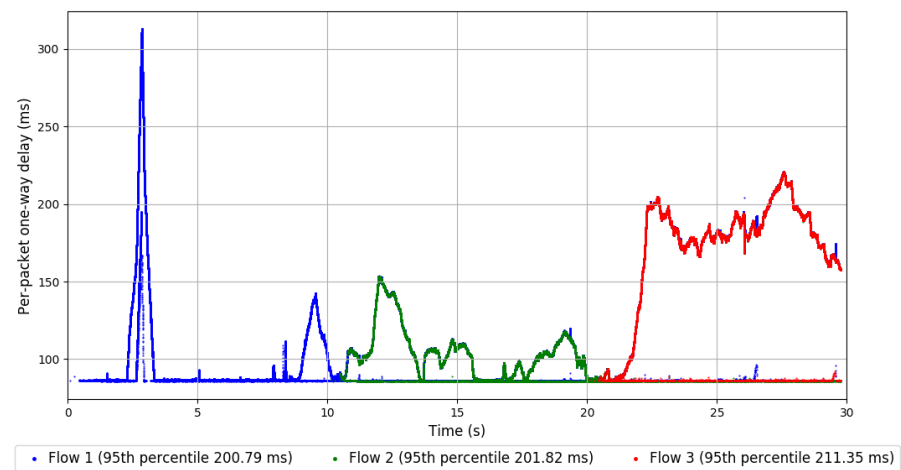
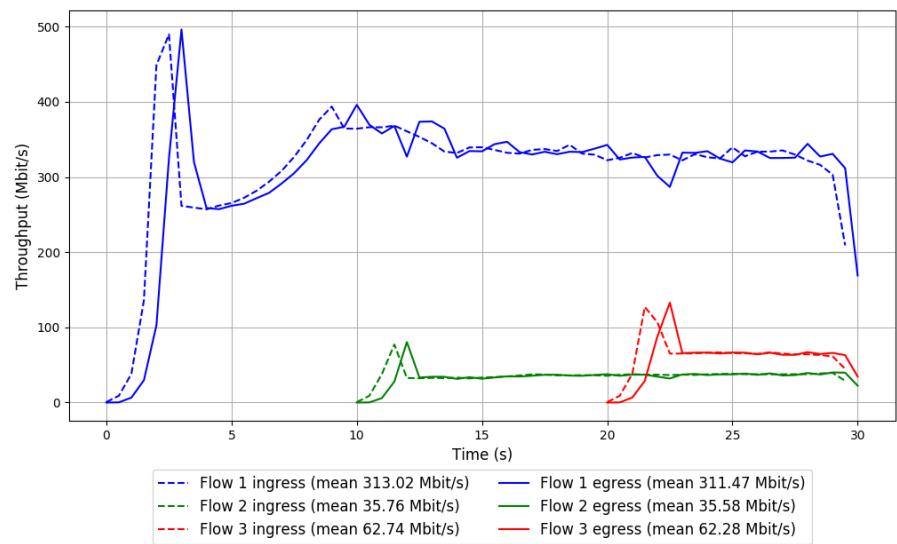
-- Flow 3:

Average throughput: 62.28 Mbit/s

95th percentile per-packet one-way delay: 211.351 ms

Loss rate: 2.47%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-07-04 05:25:31

End at: 2018-07-04 05:26:01

Local clock offset: 0.259 ms

Remote clock offset: -0.03 ms

# Below is generated by plot.py at 2018-07-04 09:12:52

# Datalink statistics

-- Total of 3 flows:

Average throughput: 326.63 Mbit/s

95th percentile per-packet one-way delay: 187.850 ms

Loss rate: 1.28%

-- Flow 1:

Average throughput: 304.93 Mbit/s

95th percentile per-packet one-way delay: 187.978 ms

Loss rate: 1.30%

-- Flow 2:

Average throughput: 30.64 Mbit/s

95th percentile per-packet one-way delay: 186.832 ms

Loss rate: 0.93%

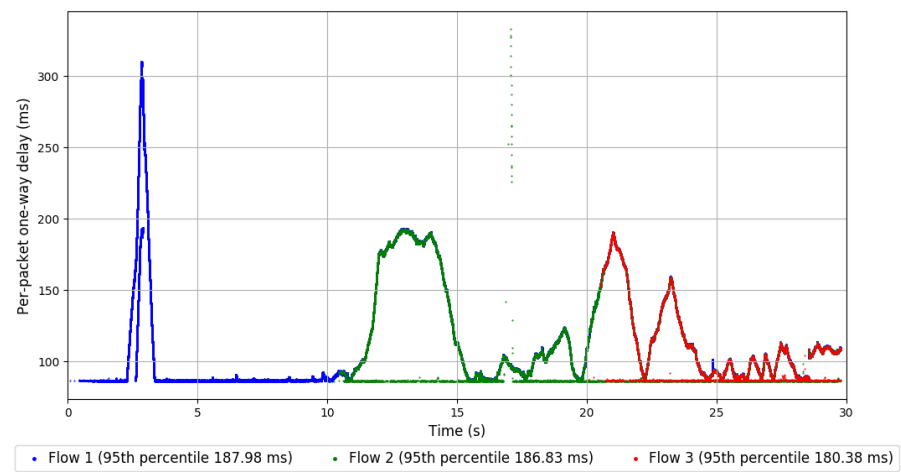
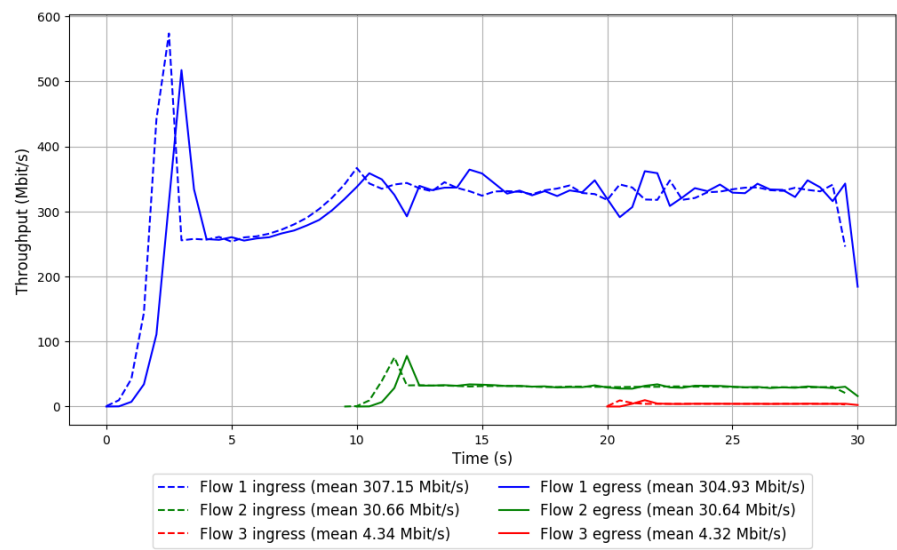
-- Flow 3:

Average throughput: 4.32 Mbit/s

95th percentile per-packet one-way delay: 180.375 ms

Loss rate: 1.97%

Run 5: Report of PCC-Allegro — Data Link



Run 6: Statistics of PCC-Allegro

Start at: 2018-07-04 05:50:22

End at: 2018-07-04 05:50:52

Local clock offset: 0.112 ms

Remote clock offset: 0.033 ms

# Below is generated by plot.py at 2018-07-04 09:12:57

# Datalink statistics

-- Total of 3 flows:

Average throughput: 334.53 Mbit/s

95th percentile per-packet one-way delay: 205.961 ms

Loss rate: 0.93%

-- Flow 1:

Average throughput: 286.29 Mbit/s

95th percentile per-packet one-way delay: 205.847 ms

Loss rate: 0.91%

-- Flow 2:

Average throughput: 64.64 Mbit/s

95th percentile per-packet one-way delay: 206.240 ms

Loss rate: 0.94%

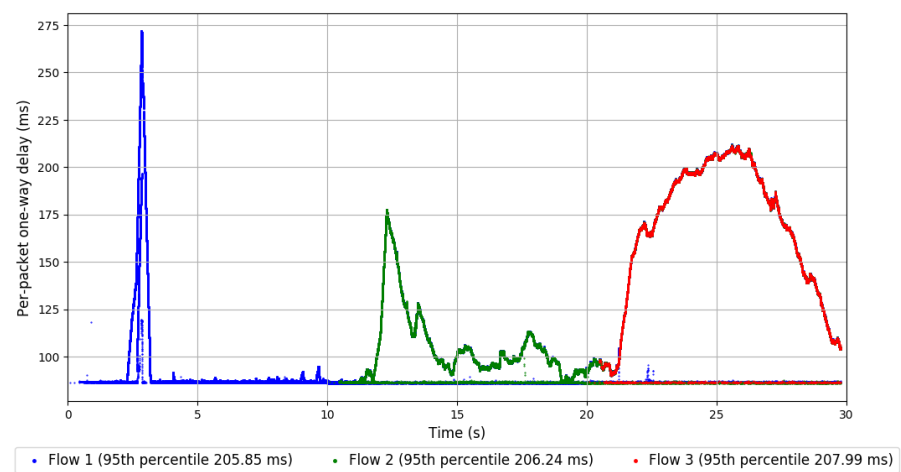
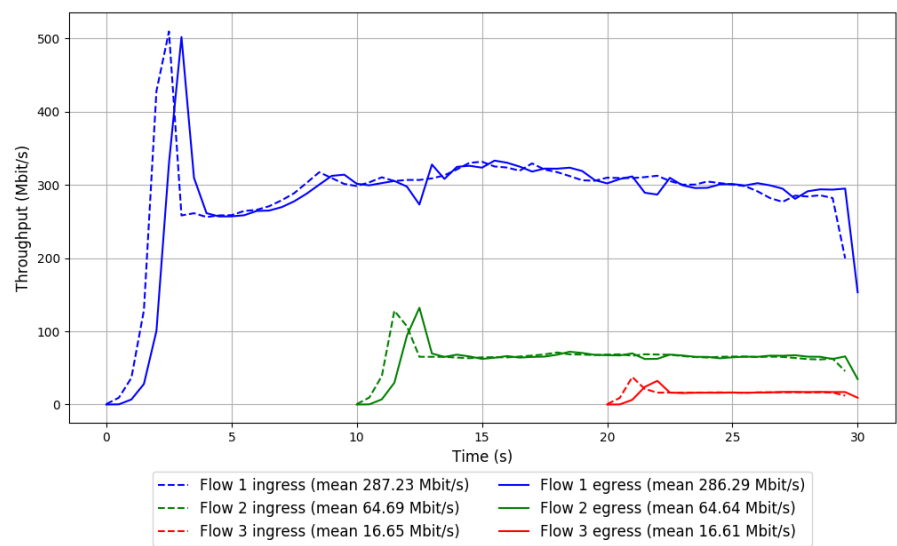
-- Flow 3:

Average throughput: 16.61 Mbit/s

95th percentile per-packet one-way delay: 207.985 ms

Loss rate: 1.98%

Run 6: Report of PCC-Allegro — Data Link



Run 7: Statistics of PCC-Allegro

Start at: 2018-07-04 06:15:10

End at: 2018-07-04 06:15:40

Local clock offset: -0.111 ms

Remote clock offset: 0.123 ms

# Below is generated by plot.py at 2018-07-04 09:12:57

# Datalink statistics

-- Total of 3 flows:

Average throughput: 308.67 Mbit/s

95th percentile per-packet one-way delay: 266.671 ms

Loss rate: 1.53%

-- Flow 1:

Average throughput: 292.39 Mbit/s

95th percentile per-packet one-way delay: 266.331 ms

Loss rate: 1.48%

-- Flow 2:

Average throughput: 8.34 Mbit/s

95th percentile per-packet one-way delay: 266.834 ms

Loss rate: 1.42%

-- Flow 3:

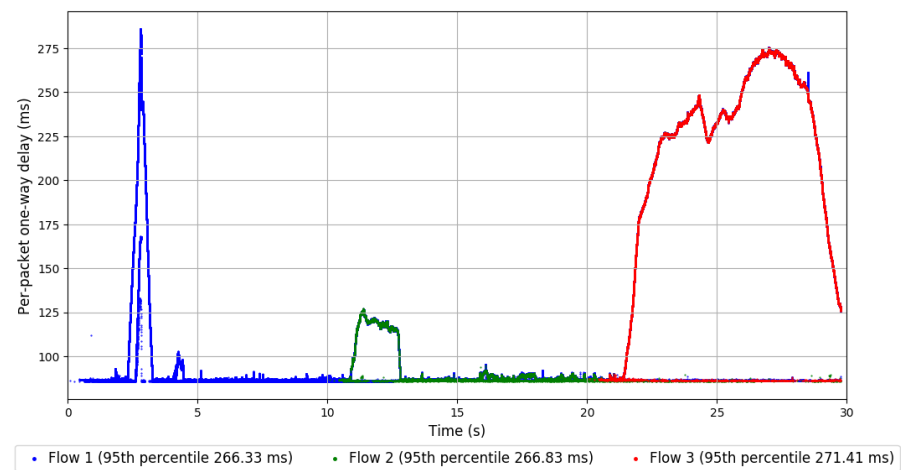
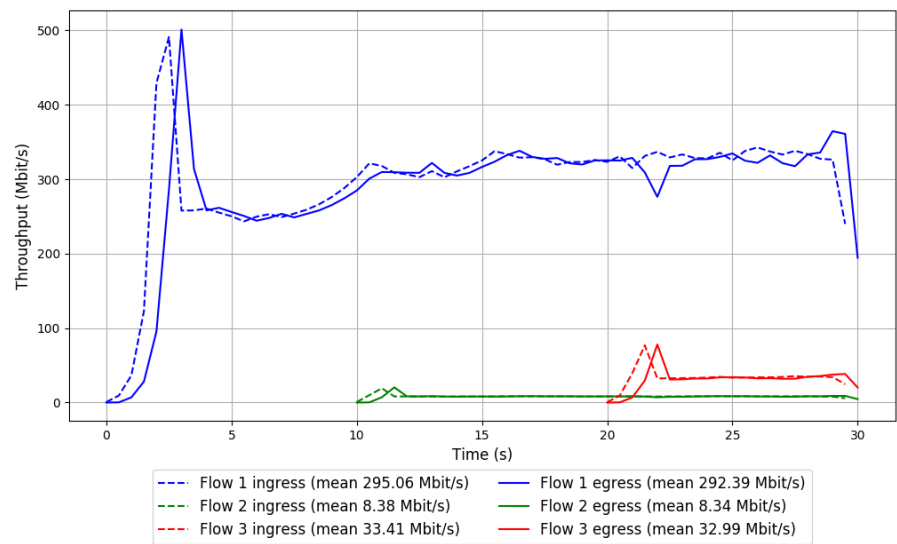
Average throughput: 32.99 Mbit/s

95th percentile per-packet one-way delay: 271.411 ms

Loss rate: 3.01%



Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-07-04 06:39:32

End at: 2018-07-04 06:40:02

Local clock offset: -0.173 ms

Remote clock offset: 0.189 ms

# Below is generated by plot.py at 2018-07-04 09:15:16

# Datalink statistics

-- Total of 3 flows:

Average throughput: 325.20 Mbit/s

95th percentile per-packet one-way delay: 197.639 ms

Loss rate: 1.00%

-- Flow 1:

Average throughput: 277.94 Mbit/s

95th percentile per-packet one-way delay: 197.498 ms

Loss rate: 0.99%

-- Flow 2:

Average throughput: 63.14 Mbit/s

95th percentile per-packet one-way delay: 197.201 ms

Loss rate: 0.92%

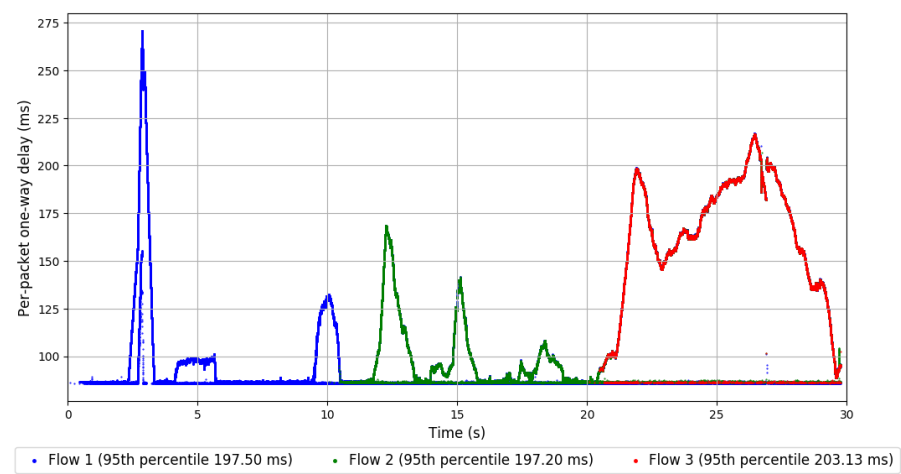
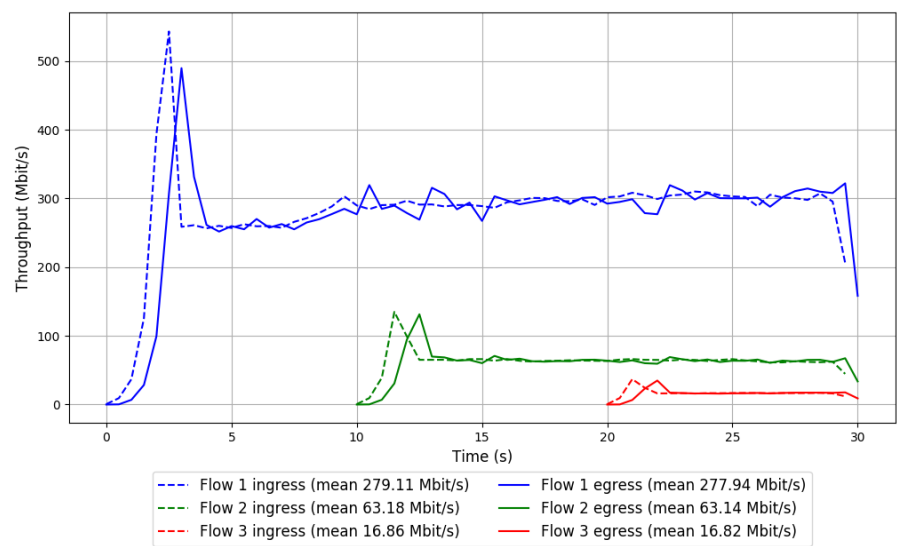
-- Flow 3:

Average throughput: 16.82 Mbit/s

95th percentile per-packet one-way delay: 203.135 ms

Loss rate: 1.88%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

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

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

Local clock offset: 0.046 ms

Remote clock offset: 0.043 ms

# Below is generated by plot.py at 2018-07-04 09:15:55

# Datalink statistics

-- Total of 3 flows:

Average throughput: 347.63 Mbit/s

95th percentile per-packet one-way delay: 157.211 ms

Loss rate: 0.89%

-- Flow 1:

Average throughput: 325.55 Mbit/s

95th percentile per-packet one-way delay: 157.300 ms

Loss rate: 0.89%

-- Flow 2:

Average throughput: 31.22 Mbit/s

95th percentile per-packet one-way delay: 150.524 ms

Loss rate: 0.82%

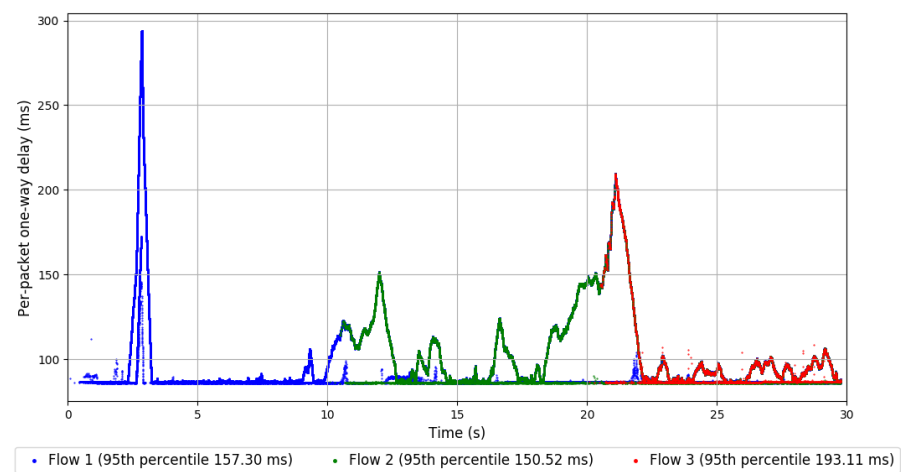
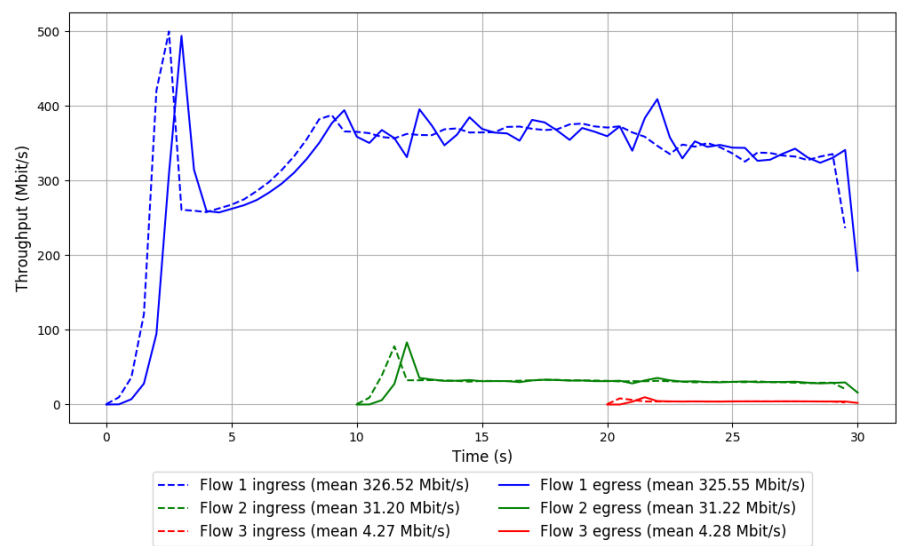
-- Flow 3:

Average throughput: 4.28 Mbit/s

95th percentile per-packet one-way delay: 193.109 ms

Loss rate: 1.58%

Run 9: Report of PCC-Allegro — Data Link

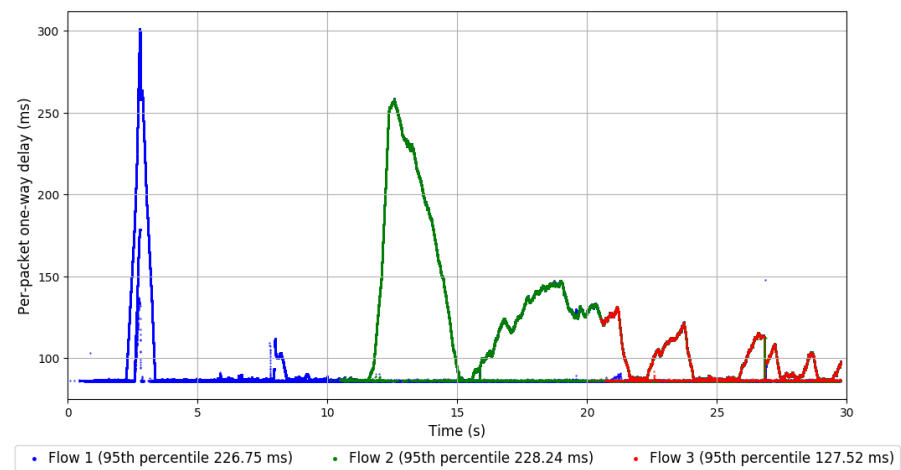
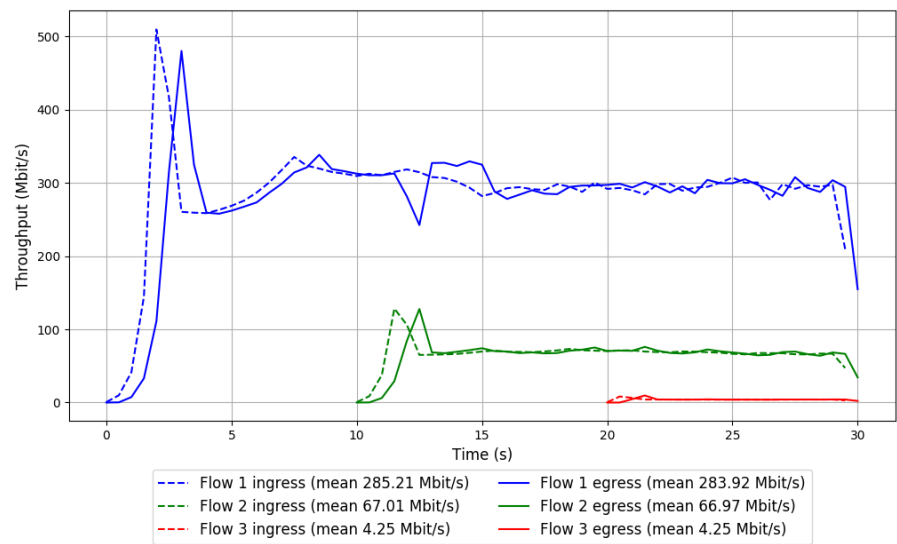


Run 10: Statistics of PCC-Allegro

Start at: 2018-07-04 07:28:51  
End at: 2018-07-04 07:29:21  
Local clock offset: 0.048 ms  
Remote clock offset: -0.042 ms

# Below is generated by plot.py at 2018-07-04 09:16:00  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 329.67 Mbit/s  
95th percentile per-packet one-way delay: 226.860 ms  
Loss rate: 1.02%  
-- Flow 1:  
Average throughput: 283.92 Mbit/s  
95th percentile per-packet one-way delay: 226.751 ms  
Loss rate: 1.03%  
-- Flow 2:  
Average throughput: 66.97 Mbit/s  
95th percentile per-packet one-way delay: 228.243 ms  
Loss rate: 0.93%  
-- Flow 3:  
Average throughput: 4.25 Mbit/s  
95th percentile per-packet one-way delay: 127.521 ms  
Loss rate: 1.78%

Run 10: Report of PCC-Allegro — Data Link



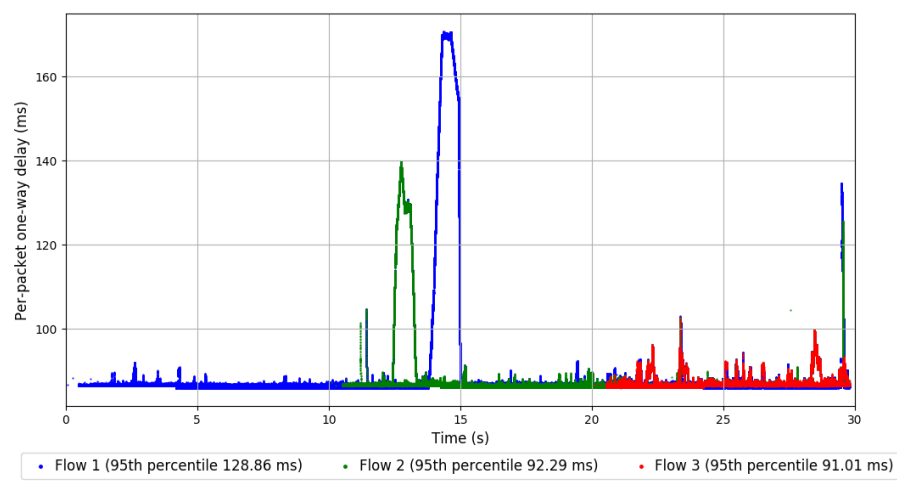
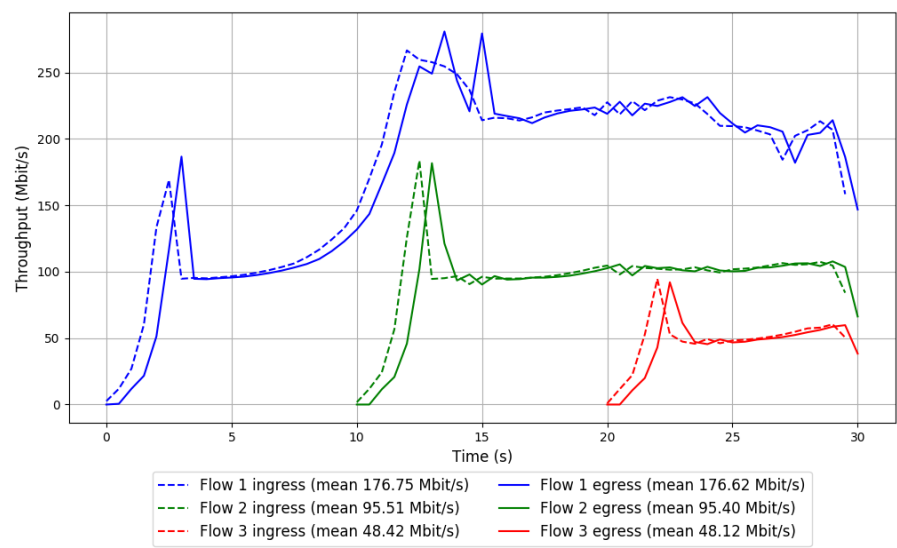
```
Run 1: Statistics of PCC-Expr

Start at: 2018-07-04 03:28:48
End at: 2018-07-04 03:29:18
Local clock offset: 0.032 ms
Remote clock offset: 0.025 ms

# Below is generated by plot.py at 2018-07-04 09:19:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 255.56 Mbit/s
95th percentile per-packet one-way delay: 116.858 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 176.62 Mbit/s
95th percentile per-packet one-way delay: 128.862 ms
Loss rate: 0.65%
-- Flow 2:
Average throughput: 95.40 Mbit/s
95th percentile per-packet one-way delay: 92.293 ms
Loss rate: 0.98%
-- Flow 3:
Average throughput: 48.12 Mbit/s
95th percentile per-packet one-way delay: 91.009 ms
Loss rate: 2.39%
```



Run 1: Report of PCC-Expr — Data Link

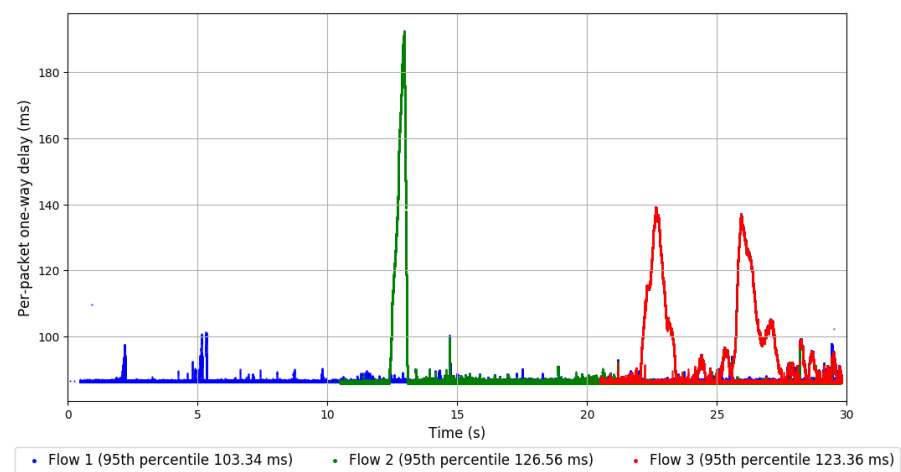
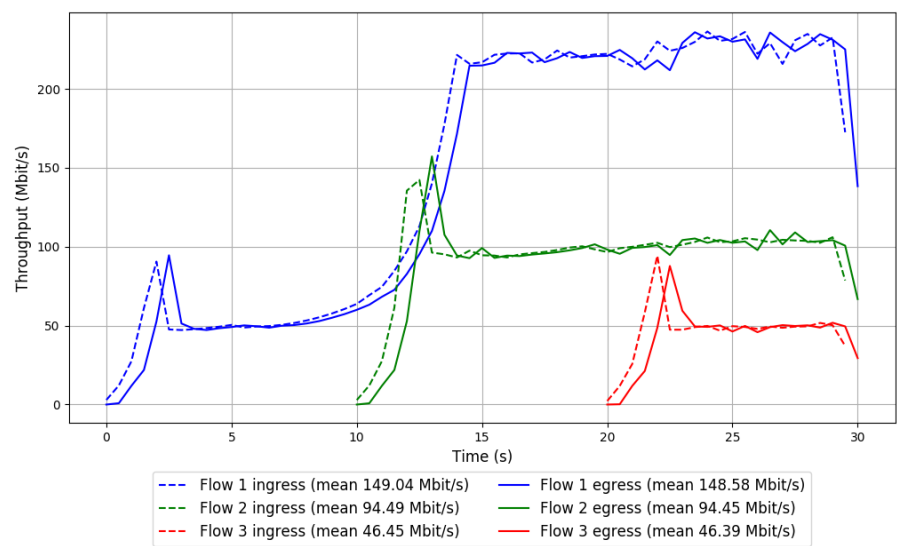


```
Run 2: Statistics of PCC-Expr

Start at: 2018-07-04 03:53:54
End at: 2018-07-04 03:54:24
Local clock offset: -0.067 ms
Remote clock offset: 0.04 ms

# Below is generated by plot.py at 2018-07-04 09:19:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 226.35 Mbit/s
95th percentile per-packet one-way delay: 114.491 ms
Loss rate: 0.96%
-- Flow 1:
Average throughput: 148.58 Mbit/s
95th percentile per-packet one-way delay: 103.345 ms
Loss rate: 0.88%
-- Flow 2:
Average throughput: 94.45 Mbit/s
95th percentile per-packet one-way delay: 126.558 ms
Loss rate: 0.91%
-- Flow 3:
Average throughput: 46.39 Mbit/s
95th percentile per-packet one-way delay: 123.358 ms
Loss rate: 1.88%
```

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2018-07-04 04:18:45

End at: 2018-07-04 04:19:15

Local clock offset: 0.145 ms

Remote clock offset: 0.089 ms

# Below is generated by plot.py at 2018-07-04 09:21:19

# Datalink statistics

-- Total of 3 flows:

Average throughput: 263.15 Mbit/s

95th percentile per-packet one-way delay: 176.283 ms

Loss rate: 2.71%

-- Flow 1:

Average throughput: 119.82 Mbit/s

95th percentile per-packet one-way delay: 153.097 ms

Loss rate: 2.11%

-- Flow 2:

Average throughput: 202.57 Mbit/s

95th percentile per-packet one-way delay: 182.210 ms

Loss rate: 2.91%

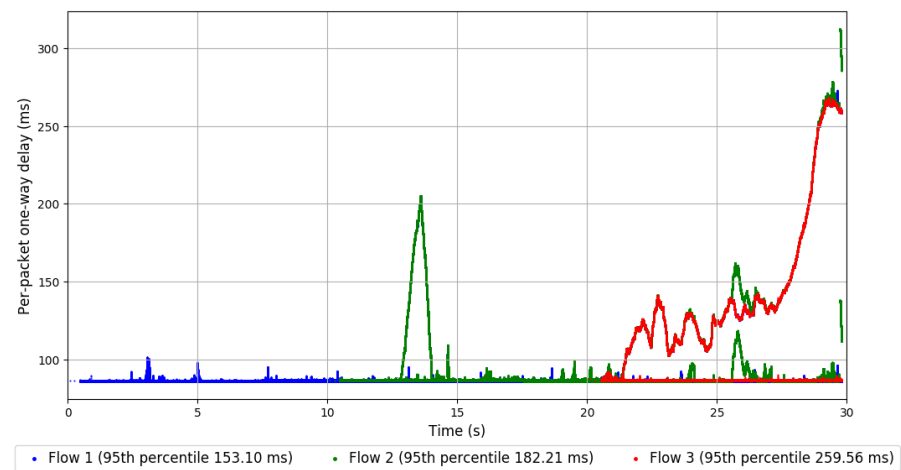
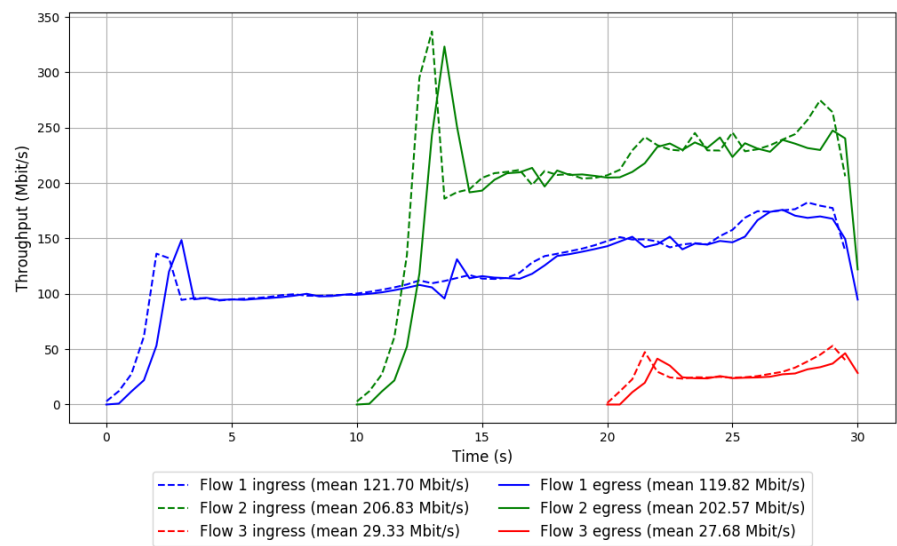
-- Flow 3:

Average throughput: 27.68 Mbit/s

95th percentile per-packet one-way delay: 259.565 ms

Loss rate: 7.30%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2018-07-04 04:43:35

End at: 2018-07-04 04:44:05

Local clock offset: 0.01 ms

Remote clock offset: 0.03 ms

# Below is generated by plot.py at 2018-07-04 09:24:22

# Datalink statistics

-- Total of 3 flows:

Average throughput: 322.35 Mbit/s

95th percentile per-packet one-way delay: 254.622 ms

Loss rate: 3.77%

-- Flow 1:

Average throughput: 195.86 Mbit/s

95th percentile per-packet one-way delay: 252.513 ms

Loss rate: 3.18%

-- Flow 2:

Average throughput: 187.69 Mbit/s

95th percentile per-packet one-way delay: 255.933 ms

Loss rate: 4.65%

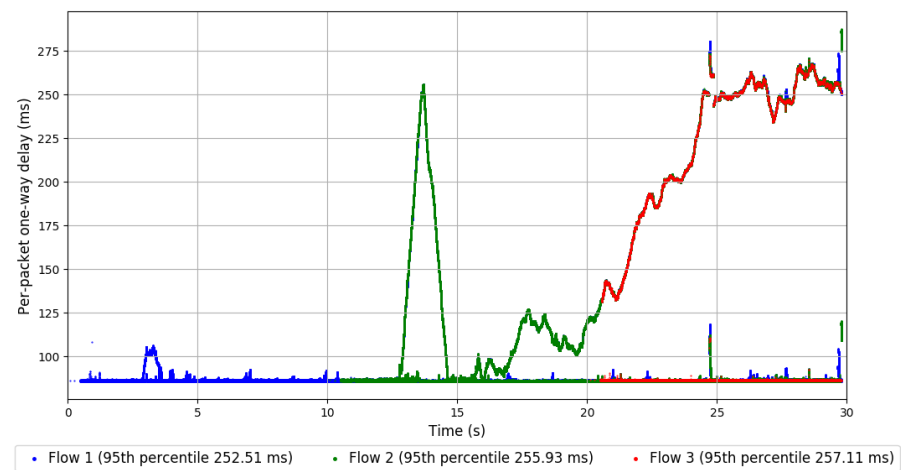
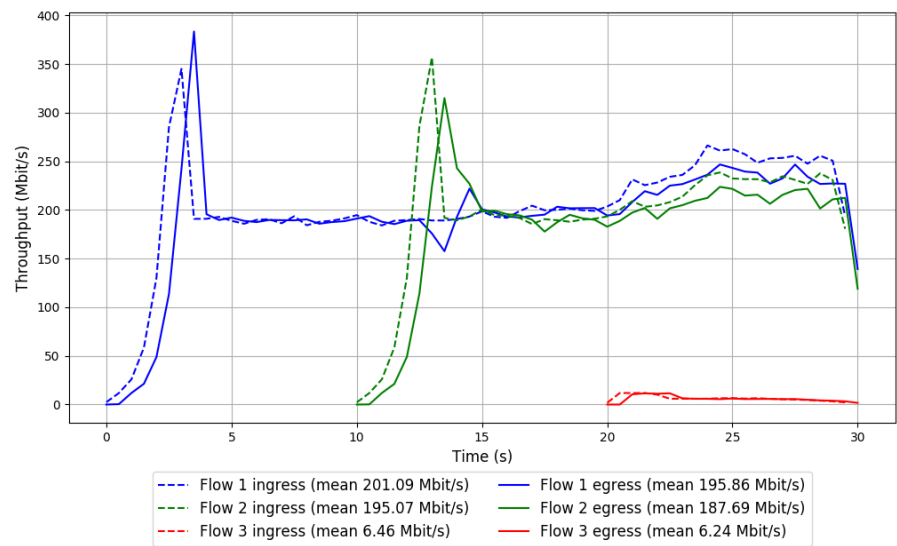
-- Flow 3:

Average throughput: 6.24 Mbit/s

95th percentile per-packet one-way delay: 257.109 ms

Loss rate: 5.10%

Run 4: Report of PCC-Expr — Data Link



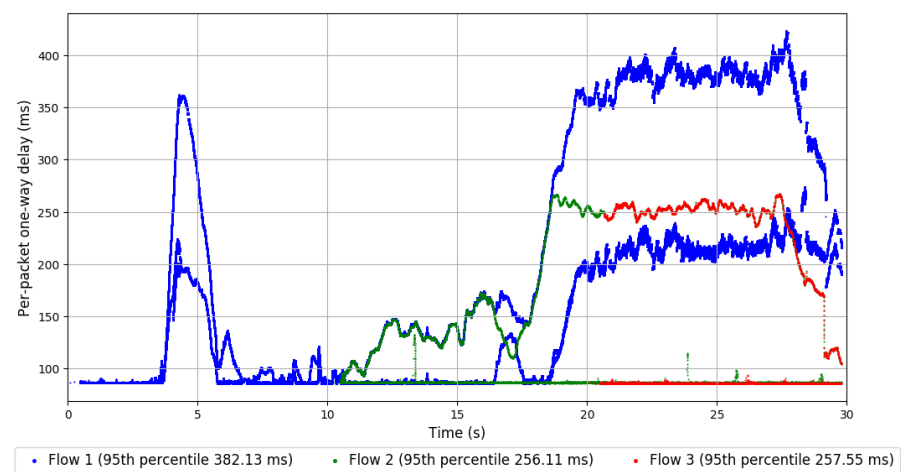
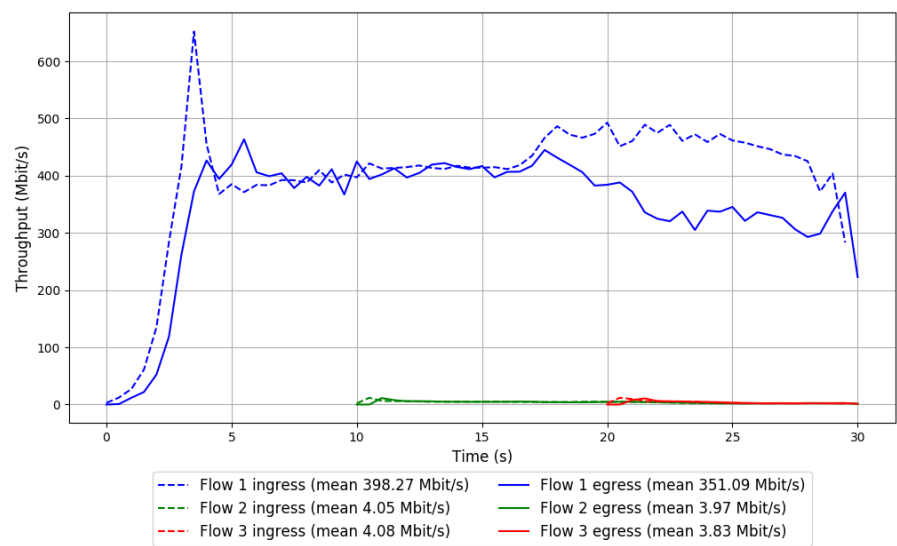
Run 5: Statistics of PCC-Expr

Start at: 2018-07-04 05:08:16  
End at: 2018-07-04 05:08:46  
Local clock offset: -0.136 ms  
Remote clock offset: -0.053 ms

# Below is generated by plot.py at 2018-07-04 09:26:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 354.97 Mbit/s  
95th percentile per-packet one-way delay: 381.982 ms  
Loss rate: 12.28%  
-- Flow 1:  
Average throughput: 351.09 Mbit/s  
95th percentile per-packet one-way delay: 382.134 ms  
Loss rate: 12.36%  
-- Flow 2:  
Average throughput: 3.97 Mbit/s  
95th percentile per-packet one-way delay: 256.110 ms  
Loss rate: 2.86%  
-- Flow 3:  
Average throughput: 3.83 Mbit/s  
95th percentile per-packet one-way delay: 257.552 ms  
Loss rate: 7.77%



Run 5: Report of PCC-Expr — Data Link



Run 6: Statistics of PCC-Expr

Start at: 2018-07-04 05:33:11

End at: 2018-07-04 05:33:41

Local clock offset: 0.098 ms

Remote clock offset: 0.008 ms

# Below is generated by plot.py at 2018-07-04 09:26:17

# Datalink statistics

-- Total of 3 flows:

Average throughput: 305.08 Mbit/s

95th percentile per-packet one-way delay: 95.103 ms

Loss rate: 0.75%

-- Flow 1:

Average throughput: 168.06 Mbit/s

95th percentile per-packet one-way delay: 92.118 ms

Loss rate: 0.53%

-- Flow 2:

Average throughput: 181.98 Mbit/s

95th percentile per-packet one-way delay: 99.372 ms

Loss rate: 0.85%

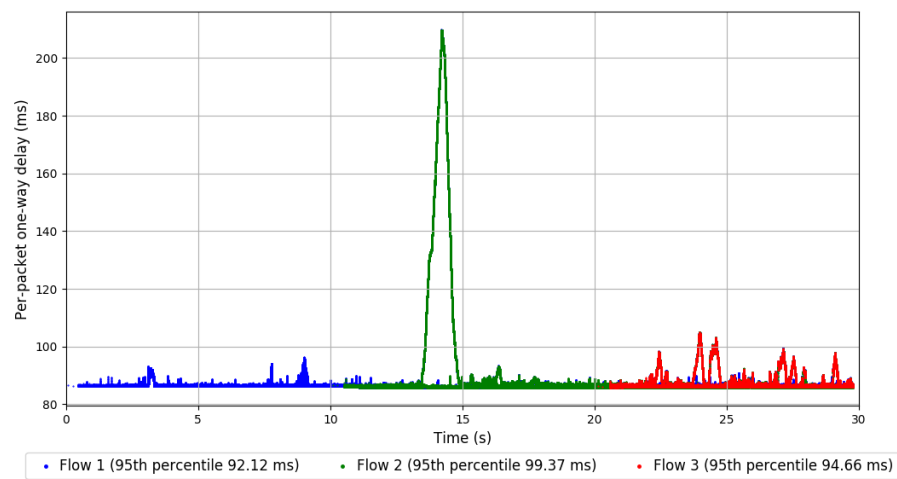
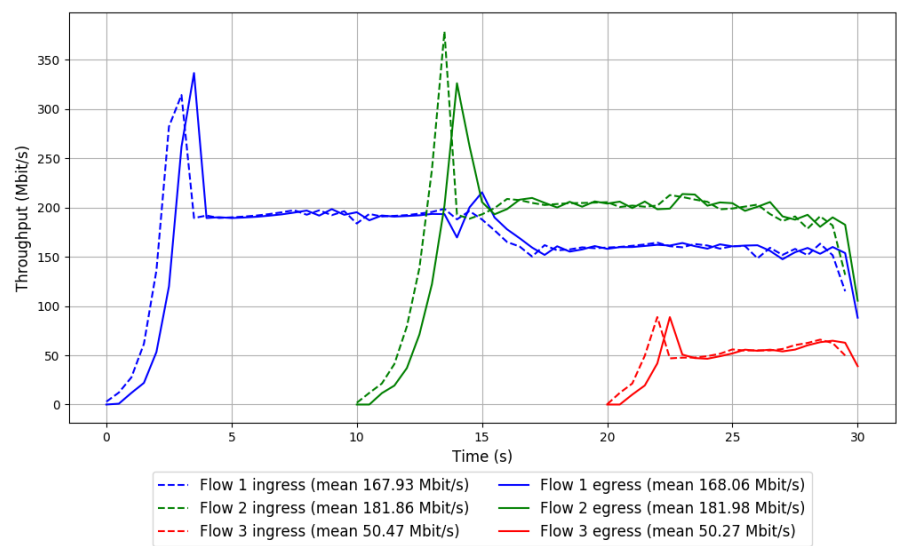
-- Flow 3:

Average throughput: 50.27 Mbit/s

95th percentile per-packet one-way delay: 94.660 ms

Loss rate: 2.23%

Run 6: Report of PCC-Expr — Data Link



Run 7: Statistics of PCC-Expr

Start at: 2018-07-04 05:58:01

End at: 2018-07-04 05:58:31

Local clock offset: 0.17 ms

Remote clock offset: 0.093 ms

# Below is generated by plot.py at 2018-07-04 09:26:17

# Datalink statistics

-- Total of 3 flows:

Average throughput: 279.36 Mbit/s

95th percentile per-packet one-way delay: 113.158 ms

Loss rate: 0.65%

-- Flow 1:

Average throughput: 167.02 Mbit/s

95th percentile per-packet one-way delay: 108.191 ms

Loss rate: 0.64%

-- Flow 2:

Average throughput: 163.19 Mbit/s

95th percentile per-packet one-way delay: 147.660 ms

Loss rate: 0.61%

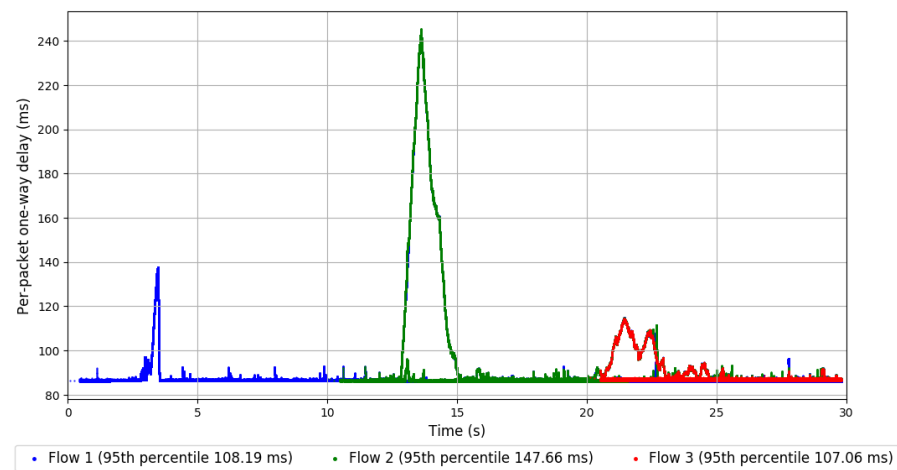
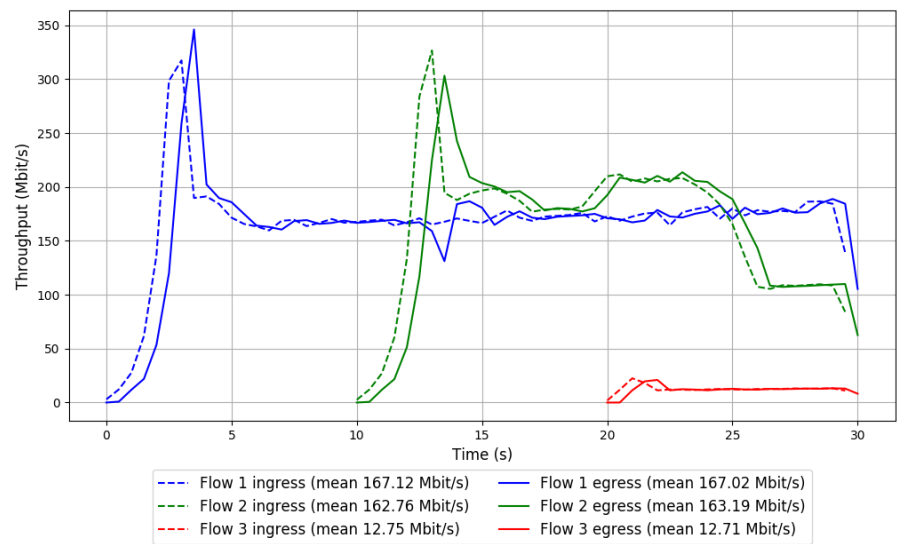
-- Flow 3:

Average throughput: 12.71 Mbit/s

95th percentile per-packet one-way delay: 107.065 ms

Loss rate: 2.08%

Run 7: Report of PCC-Expr — Data Link



Run 8: Statistics of PCC-Expr

Start at: 2018-07-04 06:22:29

End at: 2018-07-04 06:22:59

Local clock offset: 0.04 ms

Remote clock offset: 0.092 ms

# Below is generated by plot.py at 2018-07-04 09:26:57

# Datalink statistics

-- Total of 3 flows:

Average throughput: 298.99 Mbit/s

95th percentile per-packet one-way delay: 97.190 ms

Loss rate: 0.70%

-- Flow 1:

Average throughput: 178.79 Mbit/s

95th percentile per-packet one-way delay: 96.082 ms

Loss rate: 0.47%

-- Flow 2:

Average throughput: 168.63 Mbit/s

95th percentile per-packet one-way delay: 99.982 ms

Loss rate: 0.94%

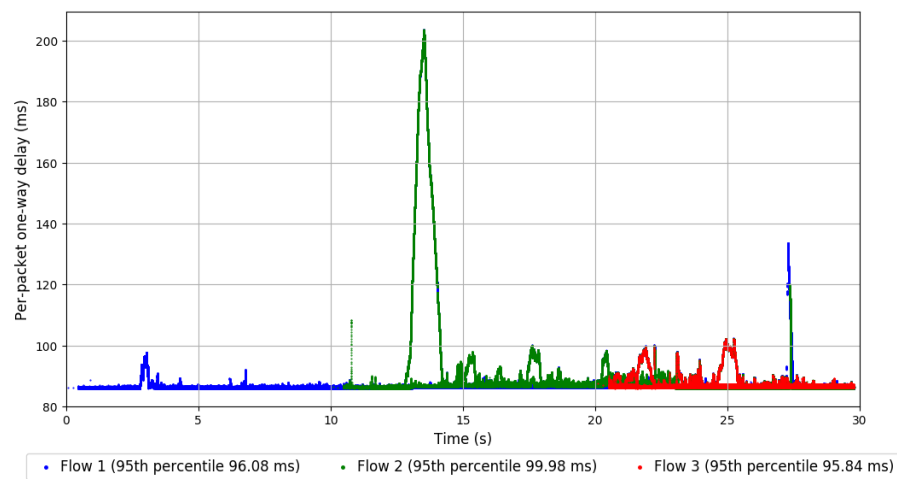
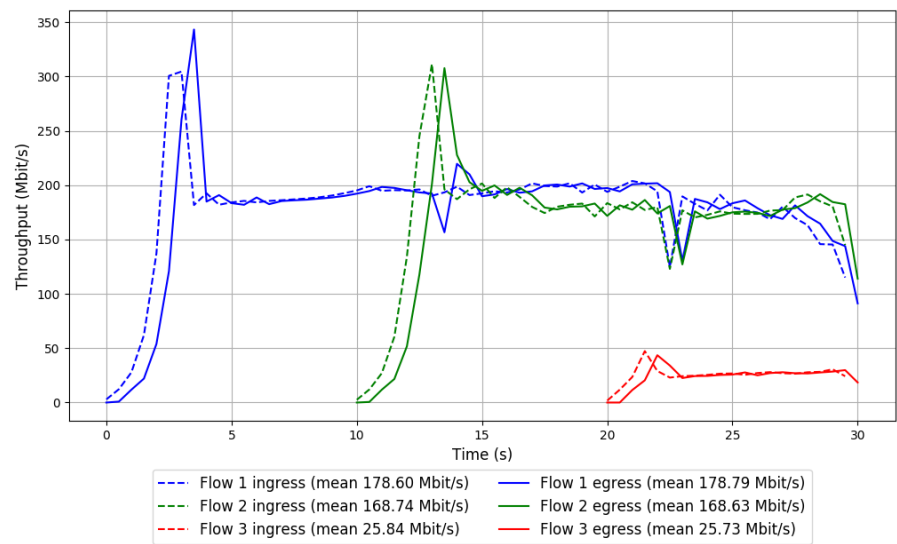
-- Flow 3:

Average throughput: 25.73 Mbit/s

95th percentile per-packet one-way delay: 95.842 ms

Loss rate: 2.19%

Run 8: Report of PCC-Expr — Data Link



Run 9: Statistics of PCC-Expr

Start at: 2018-07-04 06:46:57

End at: 2018-07-04 06:47:27

Local clock offset: -0.16 ms

Remote clock offset: 0.154 ms

# Below is generated by plot.py at 2018-07-04 09:27:07

# Datalink statistics

-- Total of 3 flows:

Average throughput: 213.30 Mbit/s

95th percentile per-packet one-way delay: 106.531 ms

Loss rate: 1.03%

-- Flow 1:

Average throughput: 81.27 Mbit/s

95th percentile per-packet one-way delay: 96.688 ms

Loss rate: 0.92%

-- Flow 2:

Average throughput: 192.44 Mbit/s

95th percentile per-packet one-way delay: 108.291 ms

Loss rate: 1.04%

-- Flow 3:

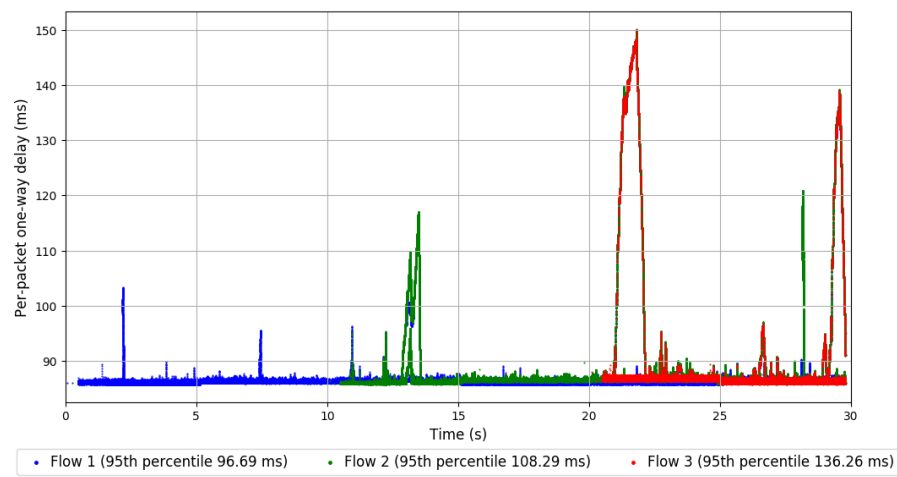
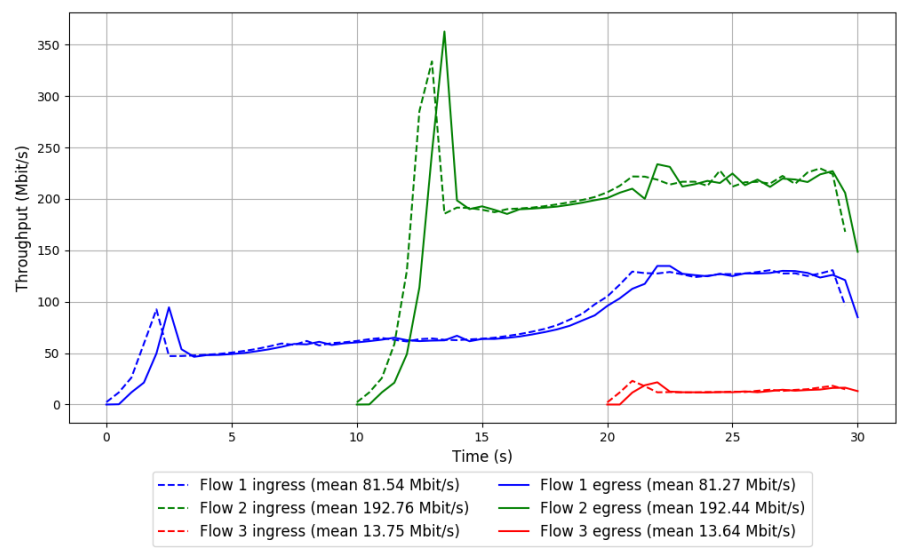
Average throughput: 13.64 Mbit/s

95th percentile per-packet one-way delay: 136.256 ms

Loss rate: 2.58%



Run 9: Report of PCC-Expr — Data Link



Run 10: Statistics of PCC-Expr

Start at: 2018-07-04 07:11:46

End at: 2018-07-04 07:12:16

Local clock offset: 0.01 ms

Remote clock offset: -0.03 ms

# Below is generated by plot.py at 2018-07-04 09:31:19

# Datalink statistics

-- Total of 3 flows:

Average throughput: 320.08 Mbit/s

95th percentile per-packet one-way delay: 169.753 ms

Loss rate: 1.67%

-- Flow 1:

Average throughput: 243.43 Mbit/s

95th percentile per-packet one-way delay: 180.455 ms

Loss rate: 1.88%

-- Flow 2:

Average throughput: 97.48 Mbit/s

95th percentile per-packet one-way delay: 102.367 ms

Loss rate: 0.93%

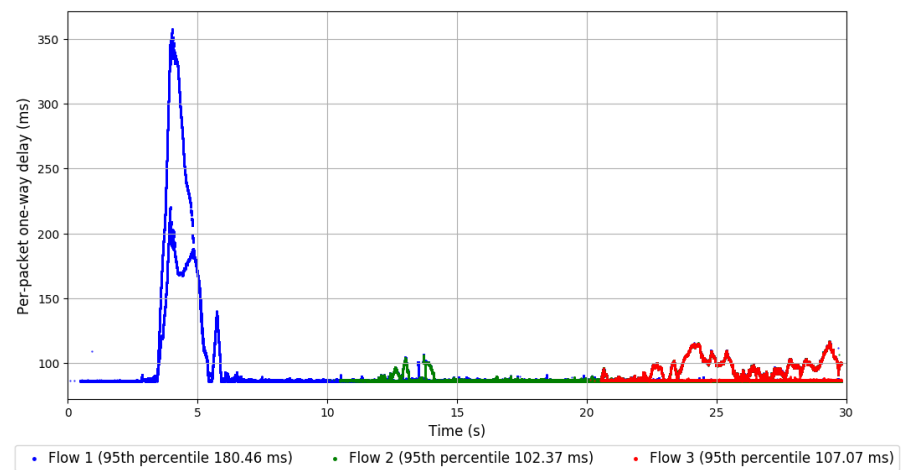
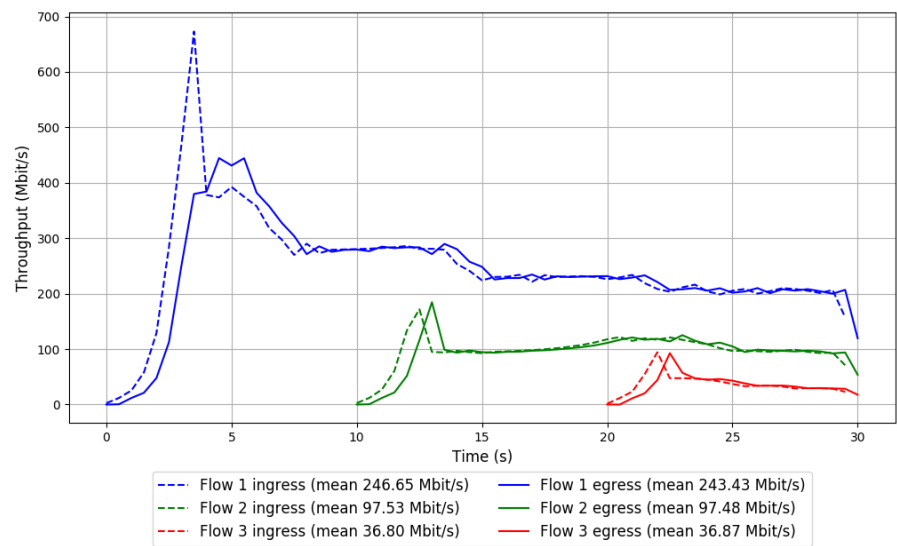
-- Flow 3:

Average throughput: 36.87 Mbit/s

95th percentile per-packet one-way delay: 107.073 ms

Loss rate: 1.58%

Run 10: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2018-07-04 03:49:39

End at: 2018-07-04 03:50:09

Local clock offset: -0.134 ms

Remote clock offset: 0.075 ms

# Below is generated by plot.py at 2018-07-04 09:31:19

# Datalink statistics

-- Total of 3 flows:

Average throughput: 89.61 Mbit/s

95th percentile per-packet one-way delay: 86.341 ms

Loss rate: 1.26%

-- Flow 1:

Average throughput: 50.20 Mbit/s

95th percentile per-packet one-way delay: 86.123 ms

Loss rate: 0.80%

-- Flow 2:

Average throughput: 39.53 Mbit/s

95th percentile per-packet one-way delay: 86.409 ms

Loss rate: 1.35%

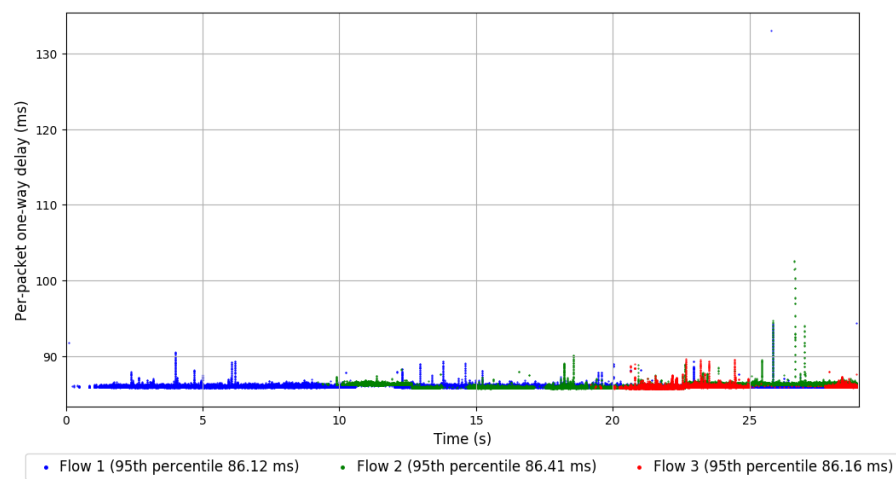
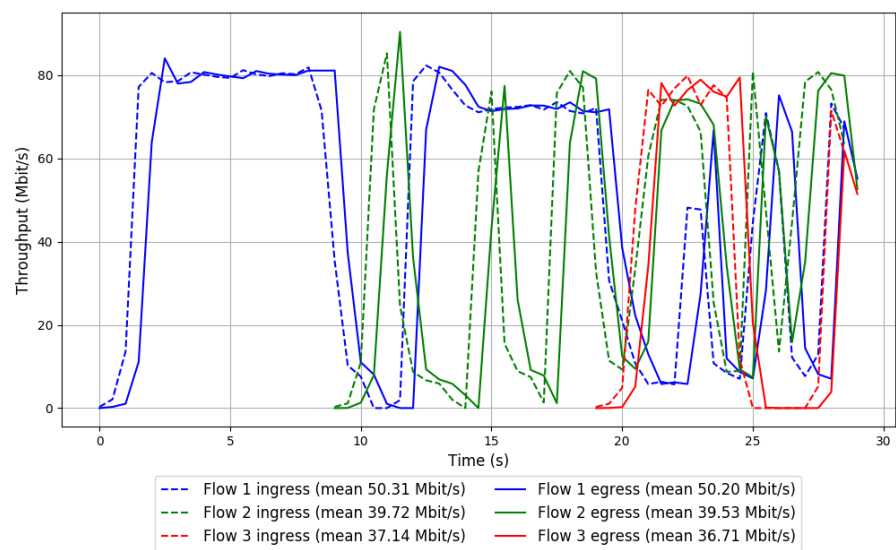
-- Flow 3:

Average throughput: 36.71 Mbit/s

95th percentile per-packet one-way delay: 86.162 ms

Loss rate: 2.87%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-07-04 04:14:29

End at: 2018-07-04 04:14:59

Local clock offset: 0.02 ms

Remote clock offset: 0.113 ms

# Below is generated by plot.py at 2018-07-04 09:31:19

# Datalink statistics

-- Total of 3 flows:

Average throughput: 73.64 Mbit/s

95th percentile per-packet one-way delay: 86.468 ms

Loss rate: 1.82%

-- Flow 1:

Average throughput: 42.84 Mbit/s

95th percentile per-packet one-way delay: 86.117 ms

Loss rate: 0.98%

-- Flow 2:

Average throughput: 36.79 Mbit/s

95th percentile per-packet one-way delay: 86.548 ms

Loss rate: 2.25%

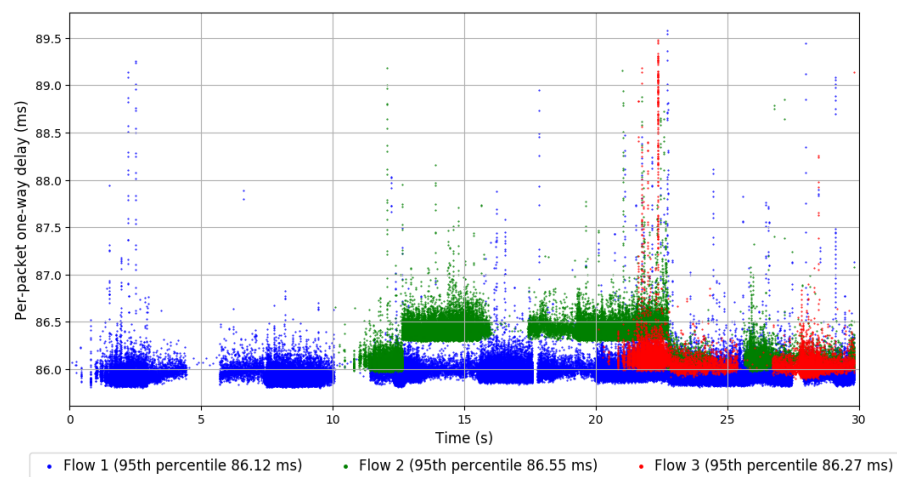
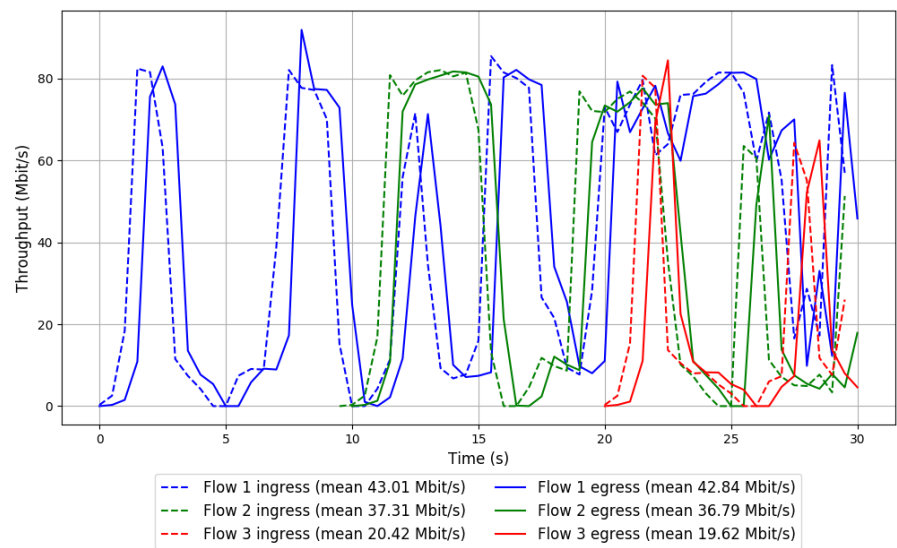
-- Flow 3:

Average throughput: 19.62 Mbit/s

95th percentile per-packet one-way delay: 86.270 ms

Loss rate: 5.61%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-07-04 04:39:15

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

Local clock offset: -0.033 ms

Remote clock offset: 0.053 ms

# Below is generated by plot.py at 2018-07-04 09:31:19

# Datalink statistics

-- Total of 3 flows:

Average throughput: 58.75 Mbit/s

95th percentile per-packet one-way delay: 86.254 ms

Loss rate: 0.94%

-- Flow 1:

Average throughput: 10.23 Mbit/s

95th percentile per-packet one-way delay: 86.480 ms

Loss rate: 0.98%

-- Flow 2:

Average throughput: 52.37 Mbit/s

95th percentile per-packet one-way delay: 86.109 ms

Loss rate: 0.14%

-- Flow 3:

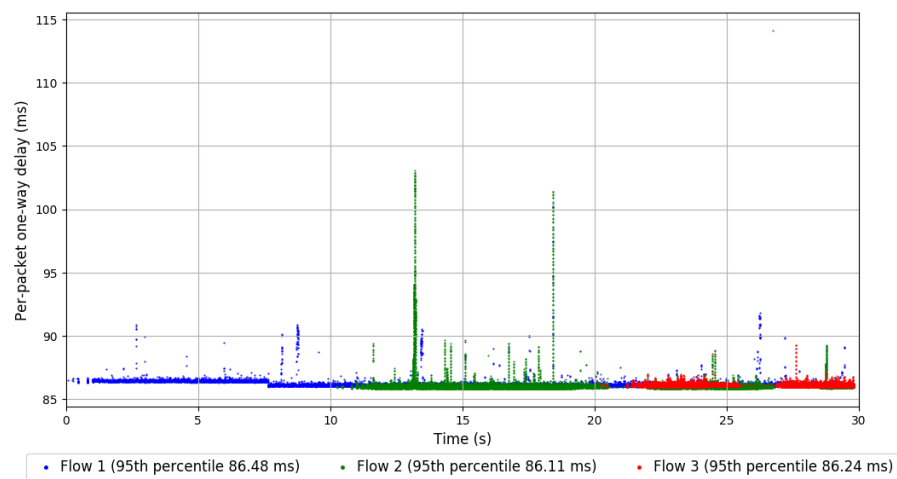
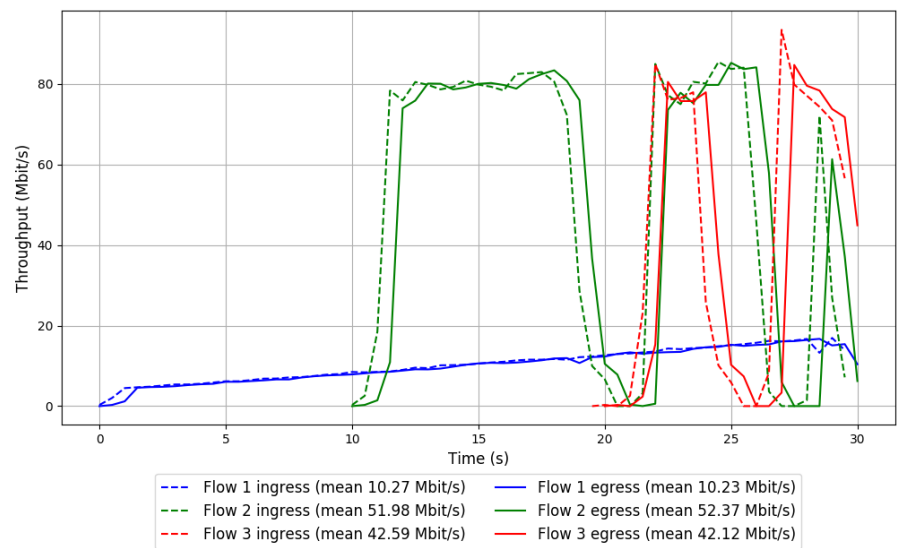
Average throughput: 42.12 Mbit/s

95th percentile per-packet one-way delay: 86.238 ms

Loss rate: 2.86%



Run 3: Report of QUIC Cubic — Data Link

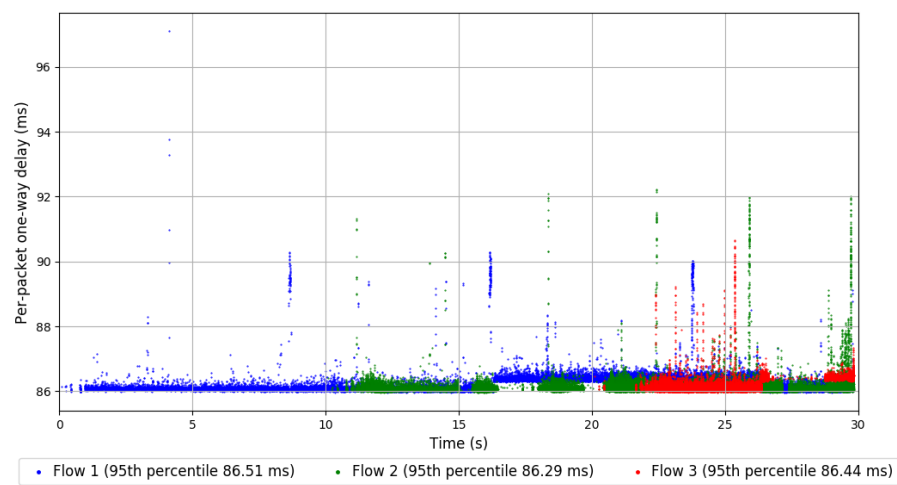
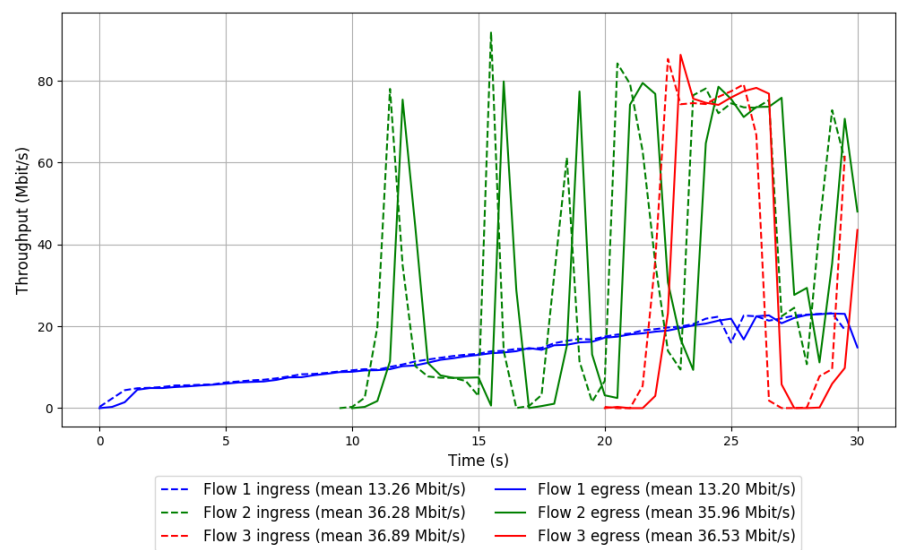


Run 4: Statistics of QUIC Cubic

Start at: 2018-07-04 05:04:06  
End at: 2018-07-04 05:04:36  
Local clock offset: -0.035 ms  
Remote clock offset: -0.023 ms

# Below is generated by plot.py at 2018-07-04 09:31:19  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 49.02 Mbit/s  
95th percentile per-packet one-way delay: 86.449 ms  
Loss rate: 1.79%  
-- Flow 1:  
Average throughput: 13.20 Mbit/s  
95th percentile per-packet one-way delay: 86.514 ms  
Loss rate: 1.02%  
-- Flow 2:  
Average throughput: 35.96 Mbit/s  
95th percentile per-packet one-way delay: 86.290 ms  
Loss rate: 1.75%  
-- Flow 3:  
Average throughput: 36.53 Mbit/s  
95th percentile per-packet one-way delay: 86.437 ms  
Loss rate: 2.70%

Run 4: Report of QUIC Cubic — Data Link

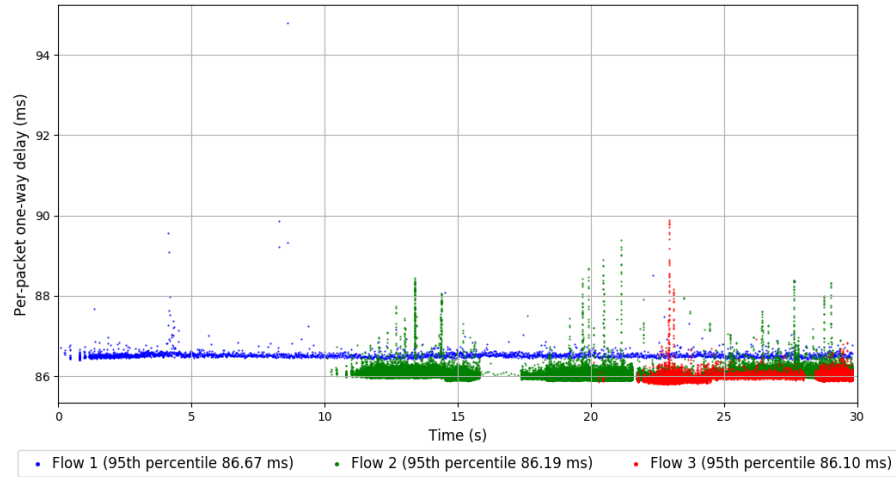
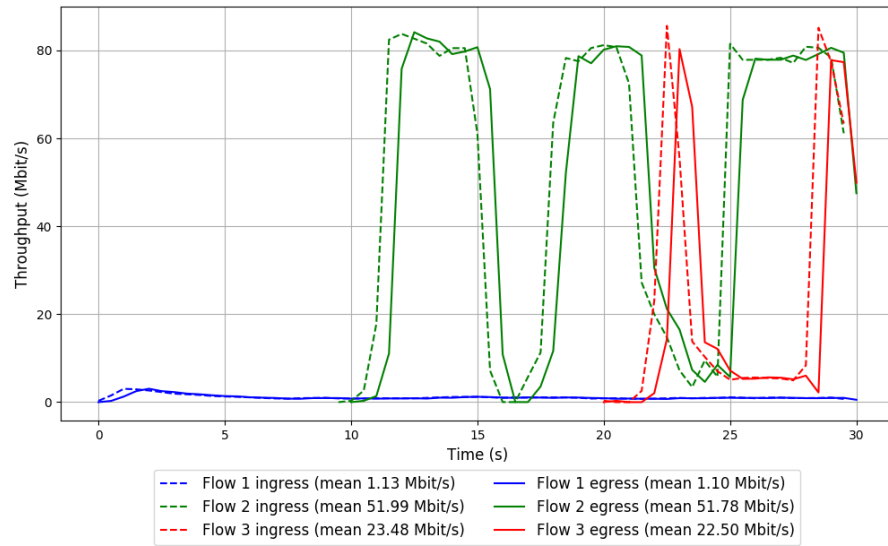


Run 5: Statistics of QUIC Cubic

Start at: 2018-07-04 05:28:58  
End at: 2018-07-04 05:29:28  
Local clock offset: 0.118 ms  
Remote clock offset: -0.055 ms

# Below is generated by plot.py at 2018-07-04 09:31:19  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 42.82 Mbit/s  
95th percentile per-packet one-way delay: 86.247 ms  
Loss rate: 2.15%  
-- Flow 1:  
Average throughput: 1.10 Mbit/s  
95th percentile per-packet one-way delay: 86.667 ms  
Loss rate: 3.44%  
-- Flow 2:  
Average throughput: 51.78 Mbit/s  
95th percentile per-packet one-way delay: 86.186 ms  
Loss rate: 1.28%  
-- Flow 3:  
Average throughput: 22.50 Mbit/s  
95th percentile per-packet one-way delay: 86.102 ms  
Loss rate: 5.82%

# Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-07-04 05:53:45

End at: 2018-07-04 05:54:15

Local clock offset: 0.021 ms

Remote clock offset: 0.049 ms

# Below is generated by plot.py at 2018-07-04 09:31:19

# Datalink statistics

-- Total of 3 flows:

Average throughput: 98.66 Mbit/s

95th percentile per-packet one-way delay: 86.286 ms

Loss rate: 0.94%

-- Flow 1:

Average throughput: 55.76 Mbit/s

95th percentile per-packet one-way delay: 86.401 ms

Loss rate: 0.81%

-- Flow 2:

Average throughput: 48.84 Mbit/s

95th percentile per-packet one-way delay: 86.113 ms

Loss rate: 1.38%

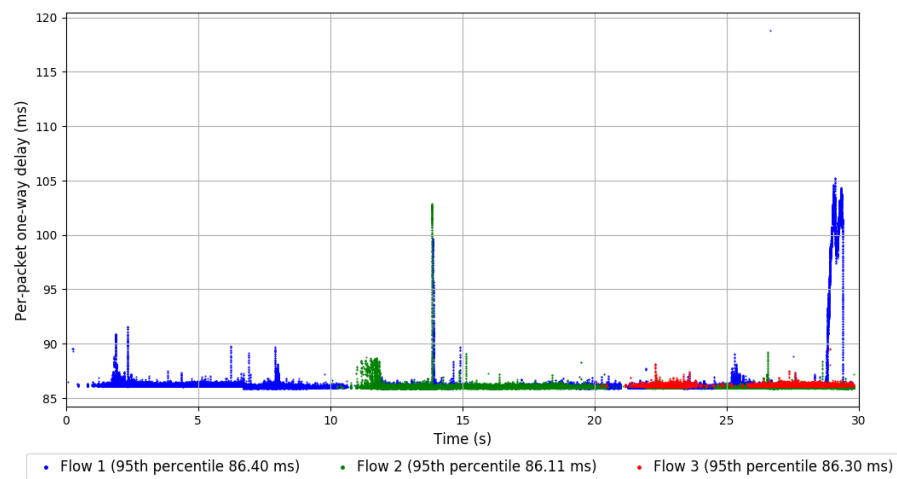
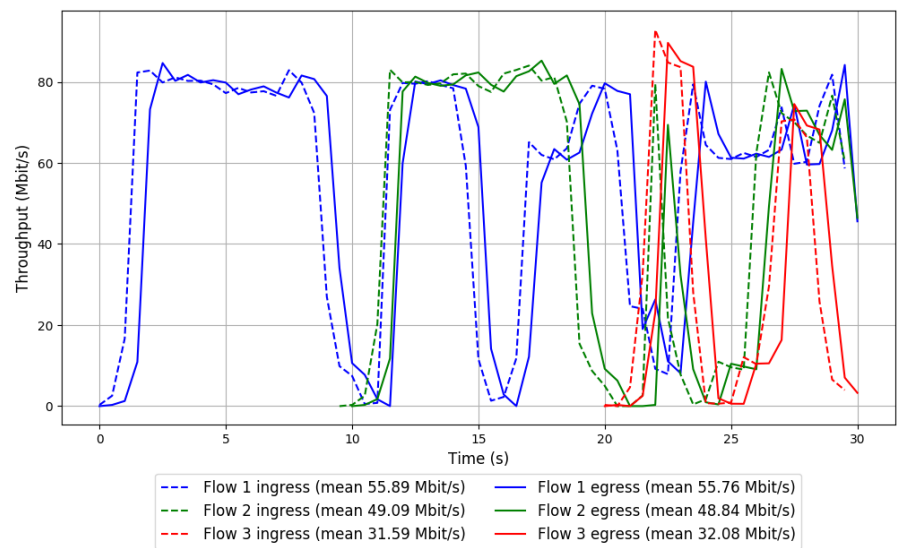
-- Flow 3:

Average throughput: 32.08 Mbit/s

95th percentile per-packet one-way delay: 86.296 ms

Loss rate: 0.27%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-07-04 06:18:14

End at: 2018-07-04 06:18:44

Local clock offset: 0.196 ms

Remote clock offset: 0.112 ms

# Below is generated by plot.py at 2018-07-04 09:31:19

# Datalink statistics

-- Total of 3 flows:

Average throughput: 93.85 Mbit/s

95th percentile per-packet one-way delay: 86.482 ms

Loss rate: 0.49%

-- Flow 1:

Average throughput: 50.91 Mbit/s

95th percentile per-packet one-way delay: 86.336 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 47.97 Mbit/s

95th percentile per-packet one-way delay: 86.338 ms

Loss rate: 1.17%

-- Flow 3:

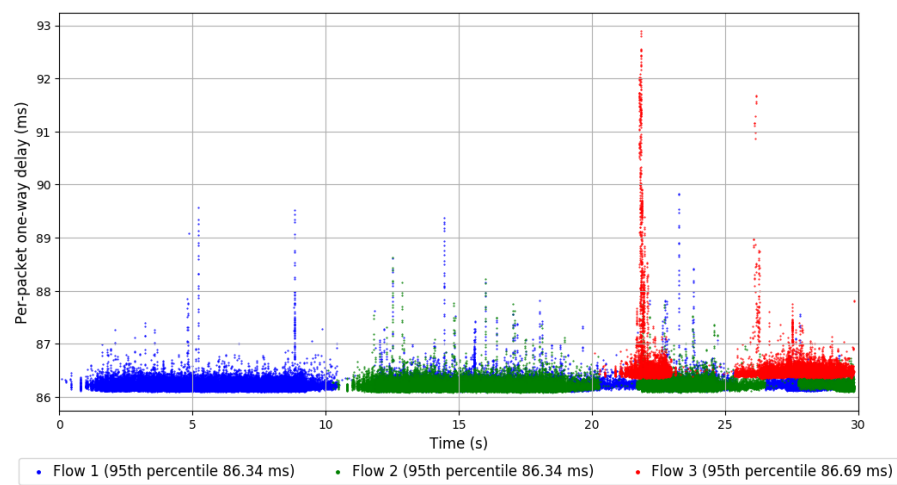
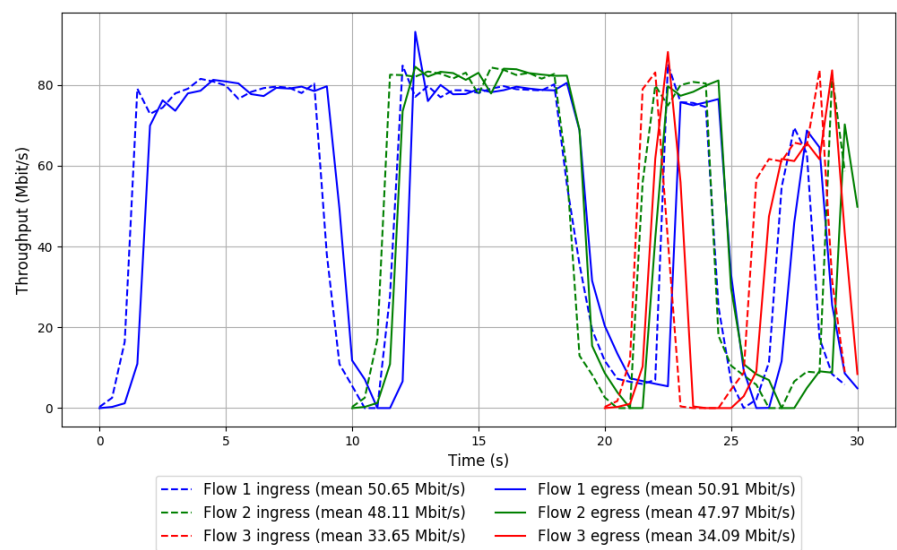
Average throughput: 34.09 Mbit/s

95th percentile per-packet one-way delay: 86.687 ms

Loss rate: 0.42%



Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-07-04 06:42:37

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

Local clock offset: 0.051 ms

Remote clock offset: 0.138 ms

# Below is generated by plot.py at 2018-07-04 09:31:19

# Datalink statistics

-- Total of 3 flows:

Average throughput: 93.30 Mbit/s

95th percentile per-packet one-way delay: 86.604 ms

Loss rate: 1.17%

-- Flow 1:

Average throughput: 49.57 Mbit/s

95th percentile per-packet one-way delay: 86.211 ms

Loss rate: 0.83%

-- Flow 2:

Average throughput: 52.38 Mbit/s

95th percentile per-packet one-way delay: 86.421 ms

Loss rate: 0.97%

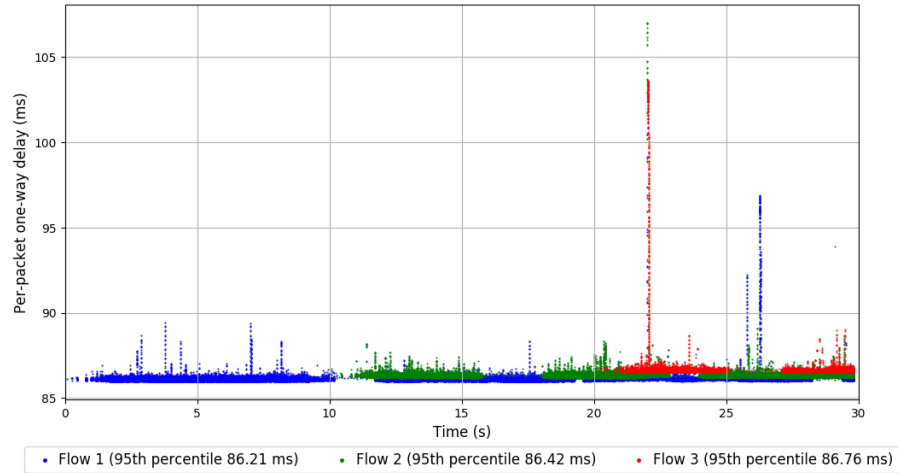
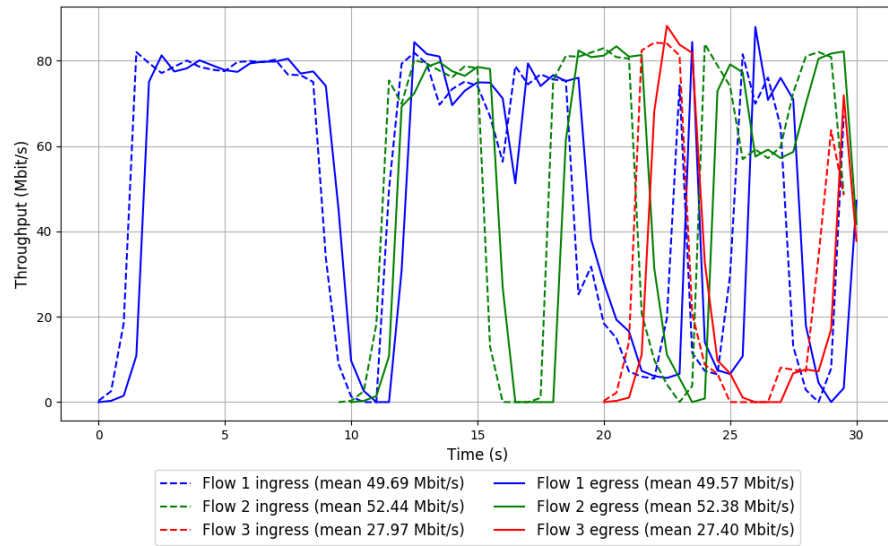
-- Flow 3:

Average throughput: 27.40 Mbit/s

95th percentile per-packet one-way delay: 86.758 ms

Loss rate: 3.74%

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



Run 9: Statistics of QUIC Cubic

Start at: 2018-07-04 07:07:31

End at: 2018-07-04 07:08:01

Local clock offset: 0.211 ms

Remote clock offset: -0.02 ms

# Below is generated by plot.py at 2018-07-04 09:31:19

# Datalink statistics

-- Total of 3 flows:

Average throughput: 88.73 Mbit/s

95th percentile per-packet one-way delay: 87.002 ms

Loss rate: 0.98%

-- Flow 1:

Average throughput: 49.99 Mbit/s

95th percentile per-packet one-way delay: 87.719 ms

Loss rate: 0.92%

-- Flow 2:

Average throughput: 48.64 Mbit/s

95th percentile per-packet one-way delay: 86.714 ms

Loss rate: 1.11%

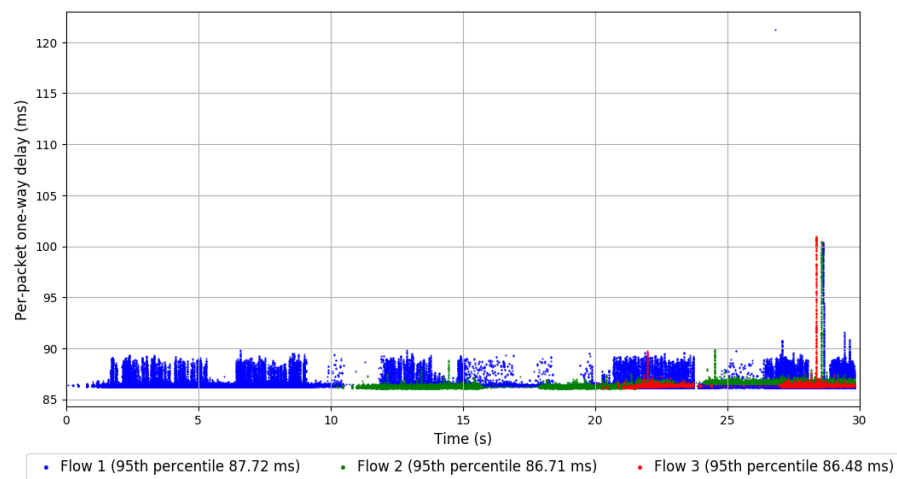
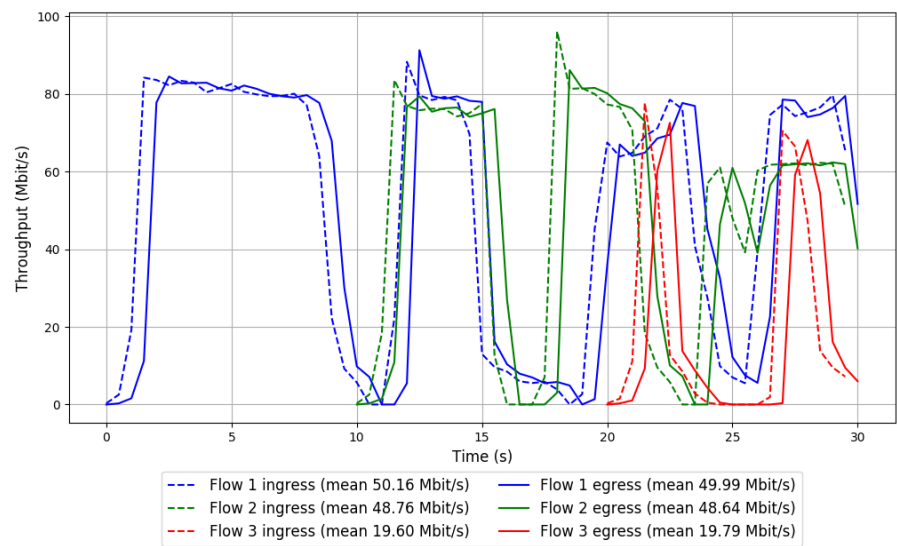
-- Flow 3:

Average throughput: 19.79 Mbit/s

95th percentile per-packet one-way delay: 86.481 ms

Loss rate: 0.80%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-07-04 07:32:13

End at: 2018-07-04 07:32:43

Local clock offset: -0.147 ms

Remote clock offset: 0.027 ms

# Below is generated by plot.py at 2018-07-04 09:31:19

# Datalink statistics

-- Total of 3 flows:

Average throughput: 64.07 Mbit/s

95th percentile per-packet one-way delay: 86.358 ms

Loss rate: 0.92%

-- Flow 1:

Average throughput: 13.83 Mbit/s

95th percentile per-packet one-way delay: 86.401 ms

Loss rate: 0.92%

-- Flow 2:

Average throughput: 61.52 Mbit/s

95th percentile per-packet one-way delay: 86.004 ms

Loss rate: 0.11%

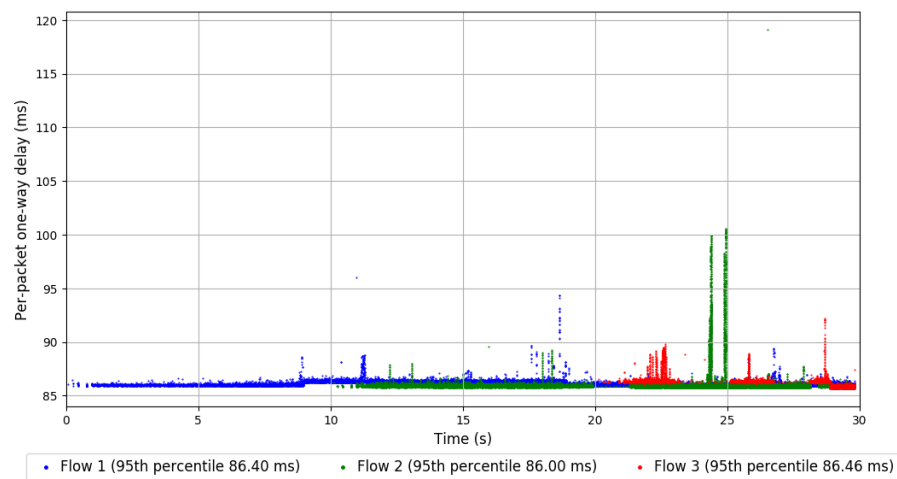
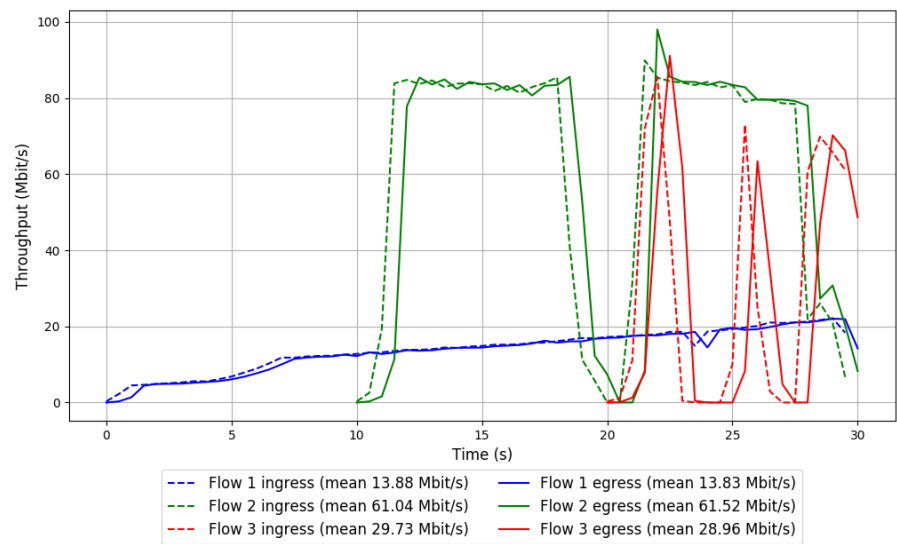
-- Flow 3:

Average throughput: 28.96 Mbit/s

95th percentile per-packet one-way delay: 86.458 ms

Loss rate: 4.30%

Run 10: Report of QUIC Cubic — Data Link



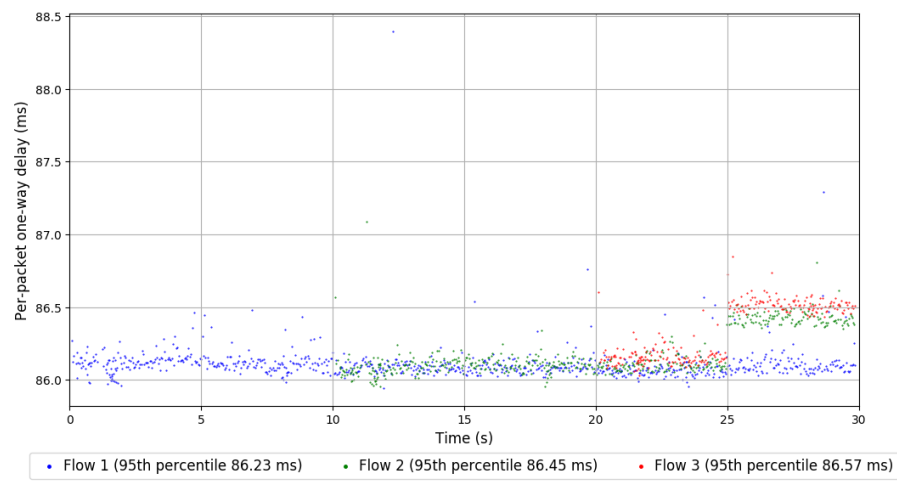
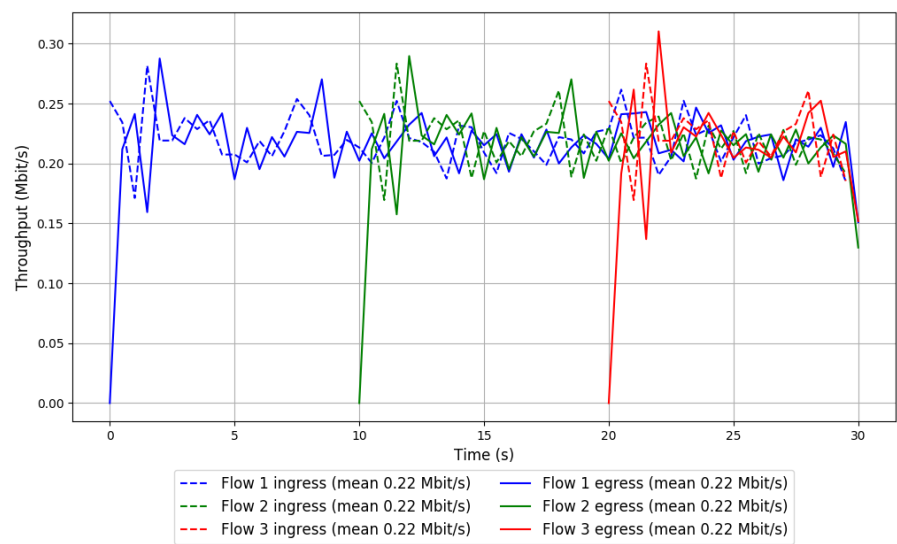
```
Run 1: Statistics of SReAM

Start at: 2018-07-04 03:41:47
End at: 2018-07-04 03:42:17
Local clock offset: -0.106 ms
Remote clock offset: 0.058 ms

# Below is generated by plot.py at 2018-07-04 09:31:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 86.512 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.229 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.455 ms
Loss rate: 1.04%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.572 ms
Loss rate: 1.85%
```



Run 1: Report of SCRaM — Data Link

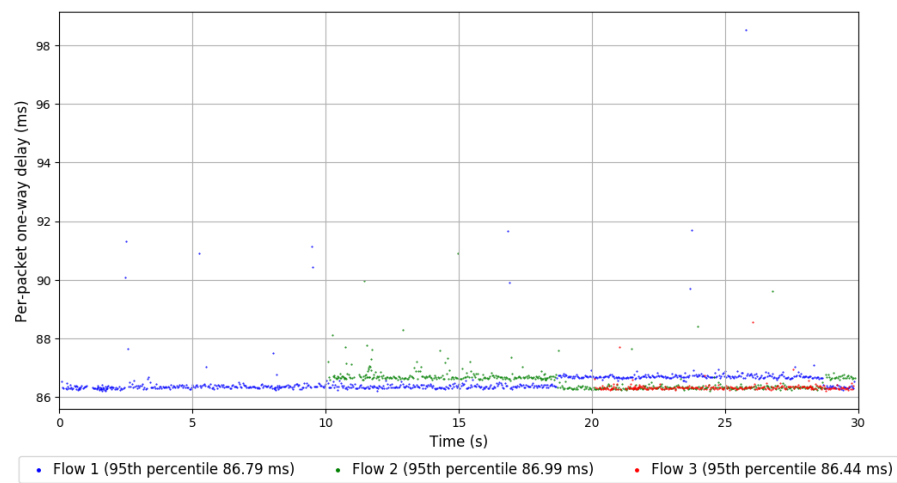
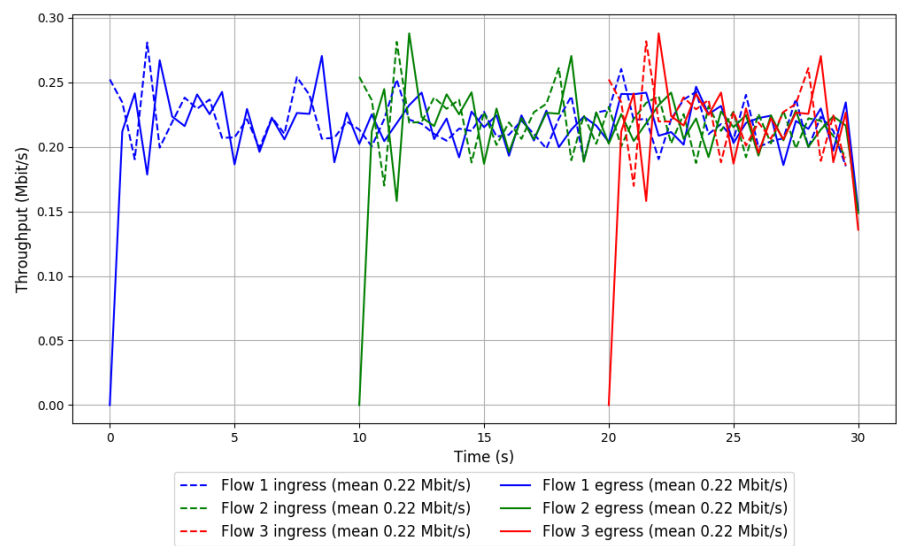


```
Run 2: Statistics of SReAM

Start at: 2018-07-04 04:06:33
End at: 2018-07-04 04:07:03
Local clock offset: 0.059 ms
Remote clock offset: 0.063 ms

# Below is generated by plot.py at 2018-07-04 09:31:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 86.810 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.792 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.992 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.439 ms
Loss rate: 1.85%
```

Run 2: Report of SReAM — Data Link

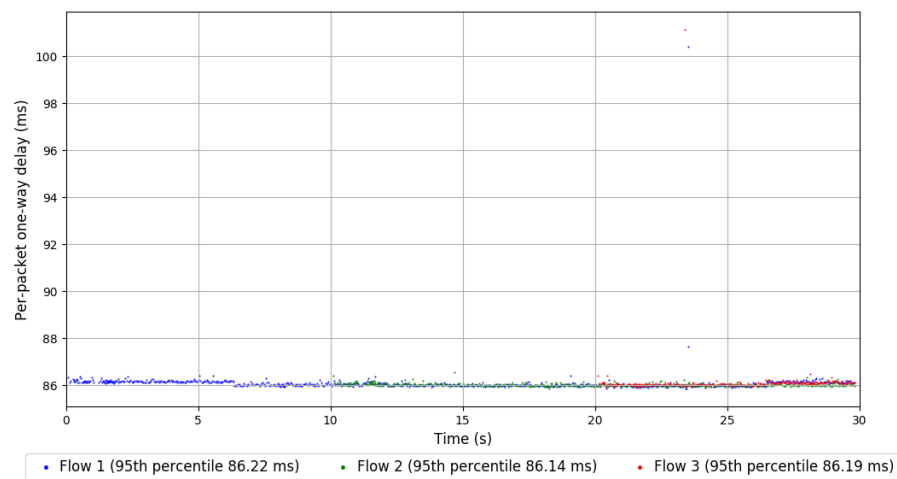
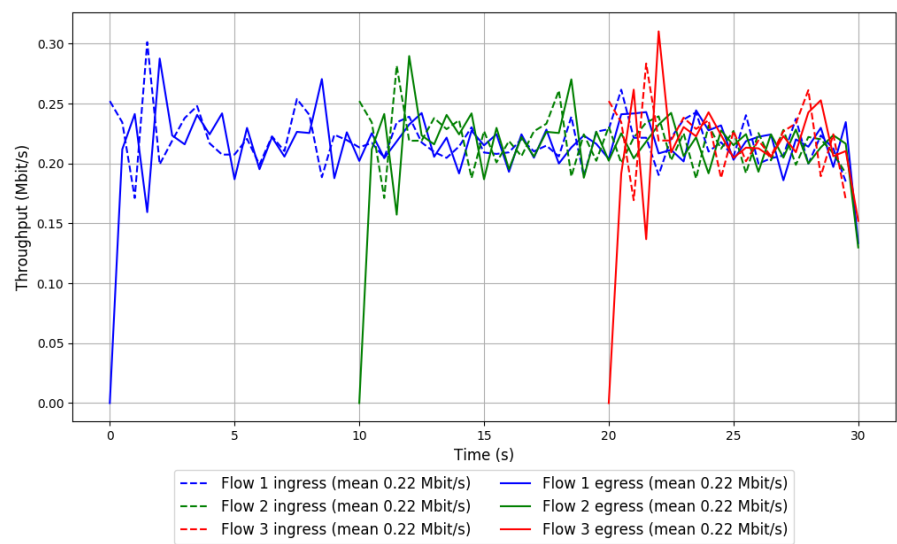


Run 3: Statistics of SReAM

Start at: 2018-07-04 04:31:36  
End at: 2018-07-04 04:32:06  
Local clock offset: -0.006 ms  
Remote clock offset: 0.129 ms

# Below is generated by plot.py at 2018-07-04 09:31:19  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.44 Mbit/s  
95th percentile per-packet one-way delay: 86.199 ms  
Loss rate: 0.92%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 86.220 ms  
Loss rate: 0.64%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 86.135 ms  
Loss rate: 1.04%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 86.186 ms  
Loss rate: 1.50%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SReAM

Start at: 2018-07-04 04:56:26

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

Local clock offset: -0.004 ms

Remote clock offset: 0.005 ms

# Below is generated by plot.py at 2018-07-04 09:31:19

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 86.547 ms

Loss rate: 0.84%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.234 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.270 ms

Loss rate: 0.82%

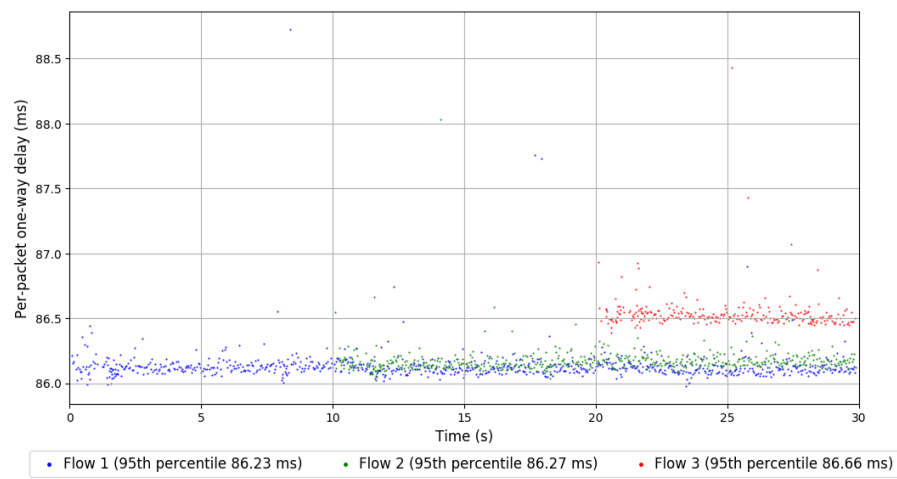
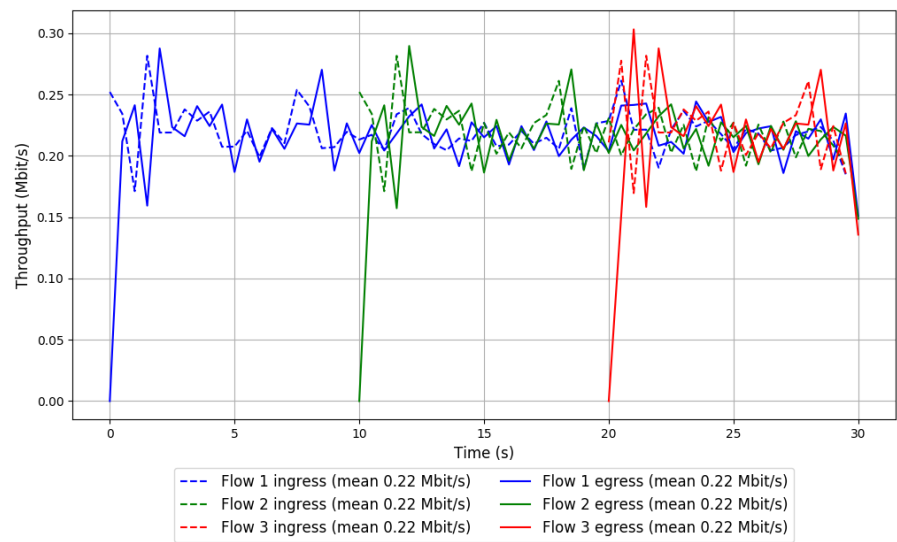
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.656 ms

Loss rate: 1.85%

Run 4: Report of SReAM — Data Link



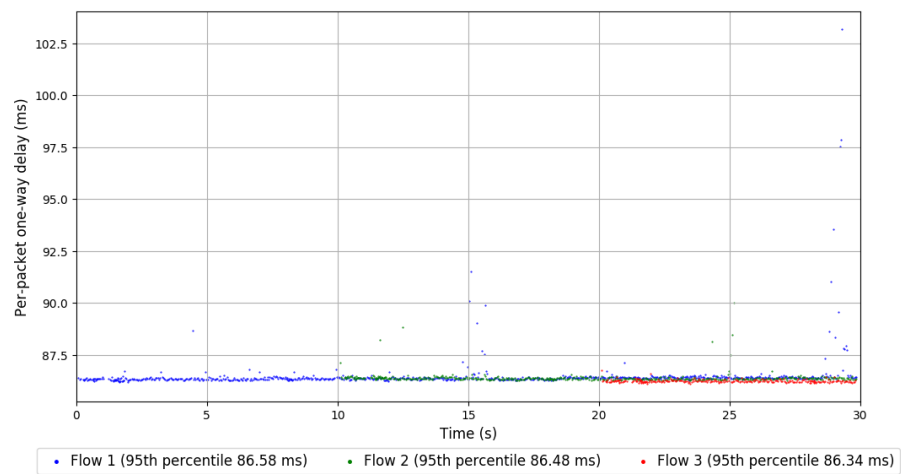
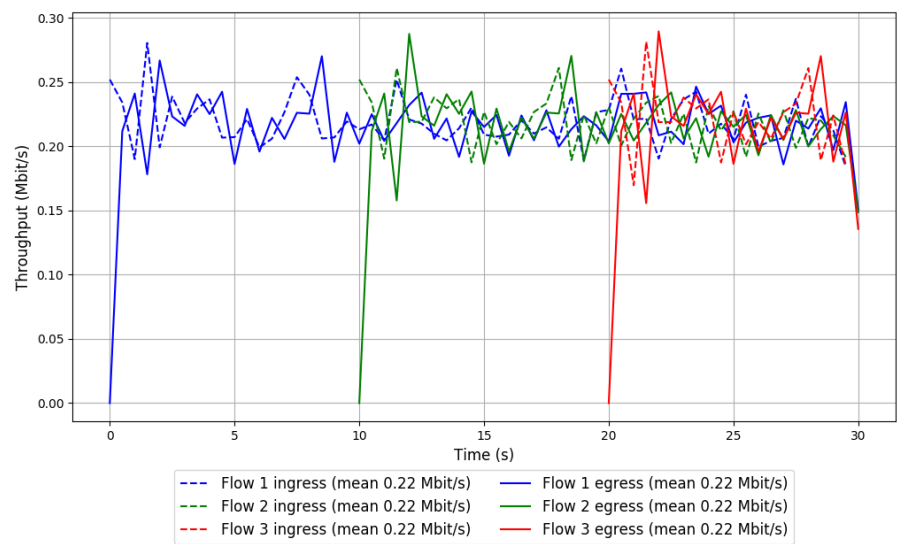
Run 5: Statistics of SReAM

Start at: 2018-07-04 05:21:03  
End at: 2018-07-04 05:21:33  
Local clock offset: 0.295 ms  
Remote clock offset: -0.019 ms

# Below is generated by plot.py at 2018-07-04 09:31:19  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.44 Mbit/s  
95th percentile per-packet one-way delay: 86.497 ms  
Loss rate: 0.84%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 86.578 ms  
Loss rate: 0.50%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 86.484 ms  
Loss rate: 0.82%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 86.342 ms  
Loss rate: 1.85%



Run 5: Report of SReAM — Data Link



Run 6: Statistics of SReAM

Start at: 2018-07-04 05:45:59

End at: 2018-07-04 05:46:29

Local clock offset: 0.346 ms

Remote clock offset: 0.008 ms

# Below is generated by plot.py at 2018-07-04 09:31:19

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 86.783 ms

Loss rate: 0.91%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.549 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.404 ms

Loss rate: 1.04%

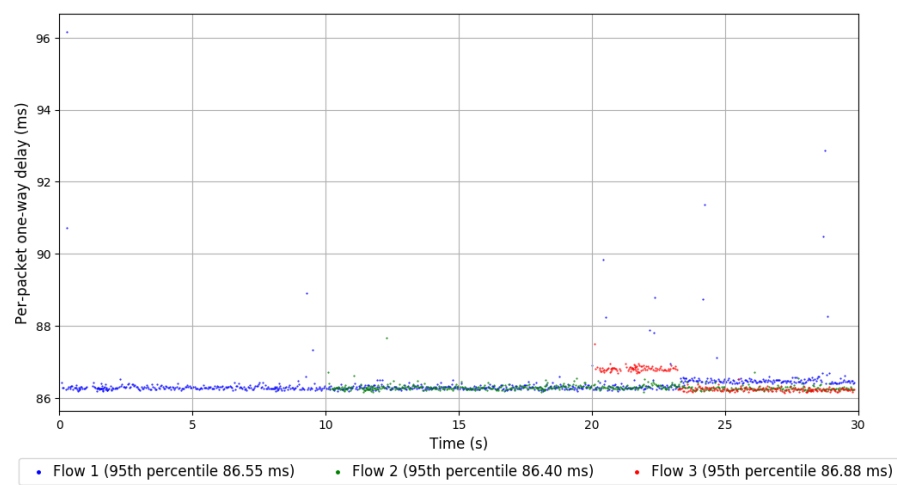
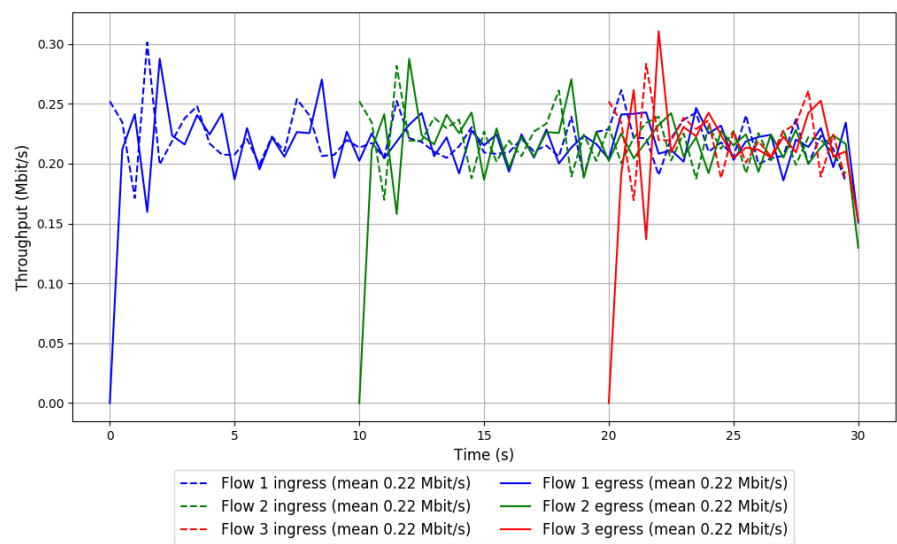
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.875 ms

Loss rate: 1.85%

Run 6: Report of SReAM — Data Link

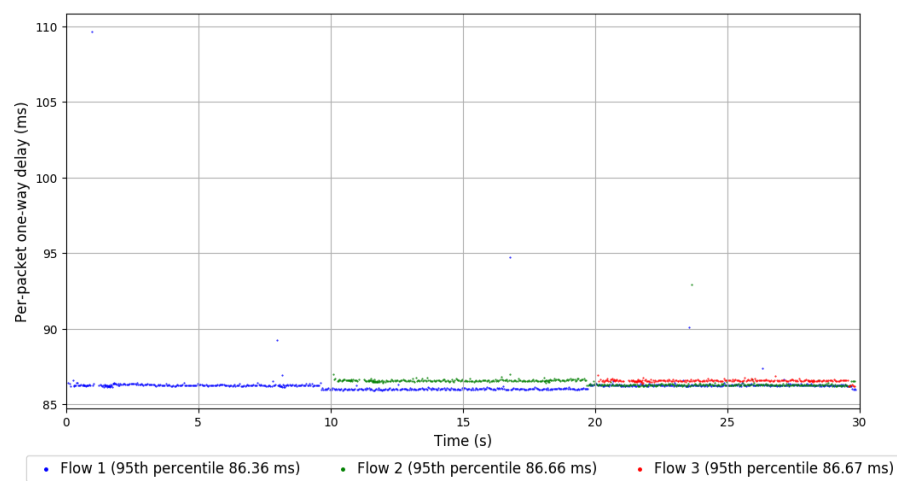
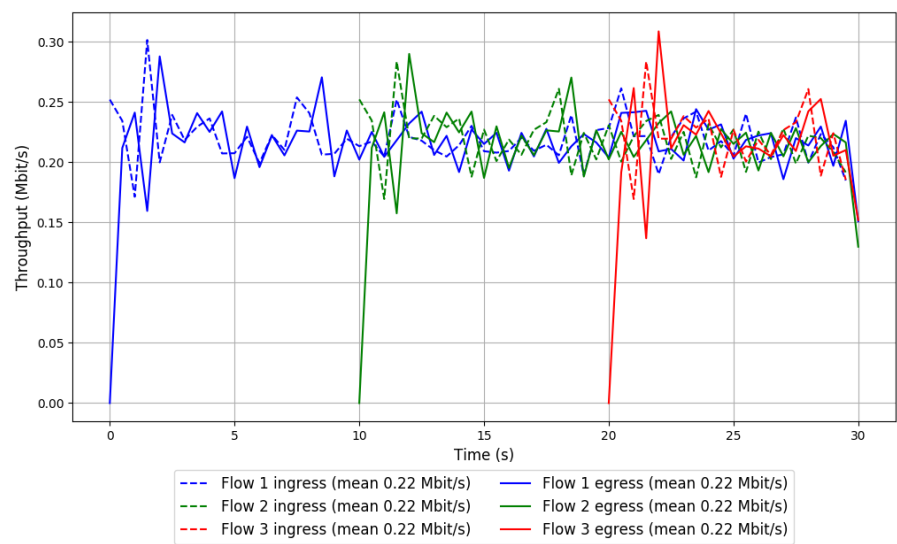


Run 7: Statistics of SReAM

Start at: 2018-07-04 06:10:43  
End at: 2018-07-04 06:11:13  
Local clock offset: -0.087 ms  
Remote clock offset: 0.098 ms

# Below is generated by plot.py at 2018-07-04 09:31:19  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.44 Mbit/s  
95th percentile per-packet one-way delay: 86.626 ms  
Loss rate: 0.91%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 86.358 ms  
Loss rate: 0.51%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 86.660 ms  
Loss rate: 1.04%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 86.671 ms  
Loss rate: 1.85%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SReAM

Start at: 2018-07-04 06:35:20

End at: 2018-07-04 06:35:50

Local clock offset: 0.022 ms

Remote clock offset: 0.16 ms

# Below is generated by plot.py at 2018-07-04 09:31:19

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 86.401 ms

Loss rate: 0.84%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.419 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.362 ms

Loss rate: 0.82%

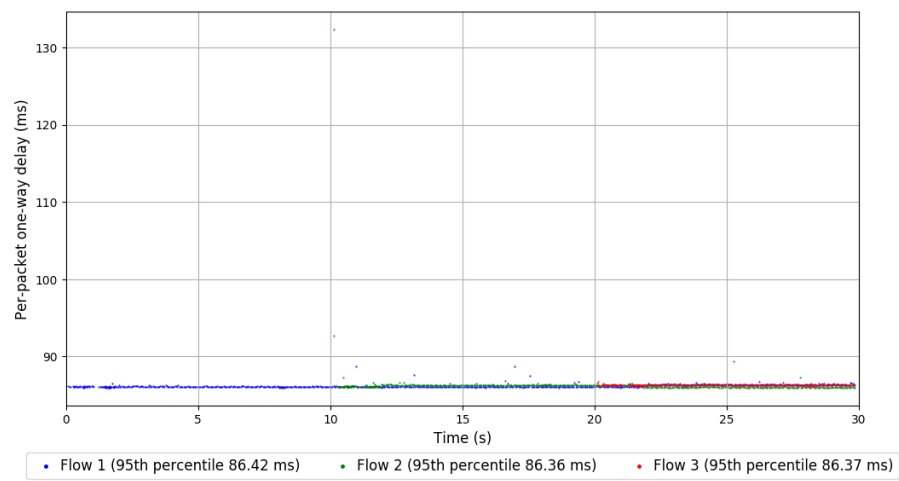
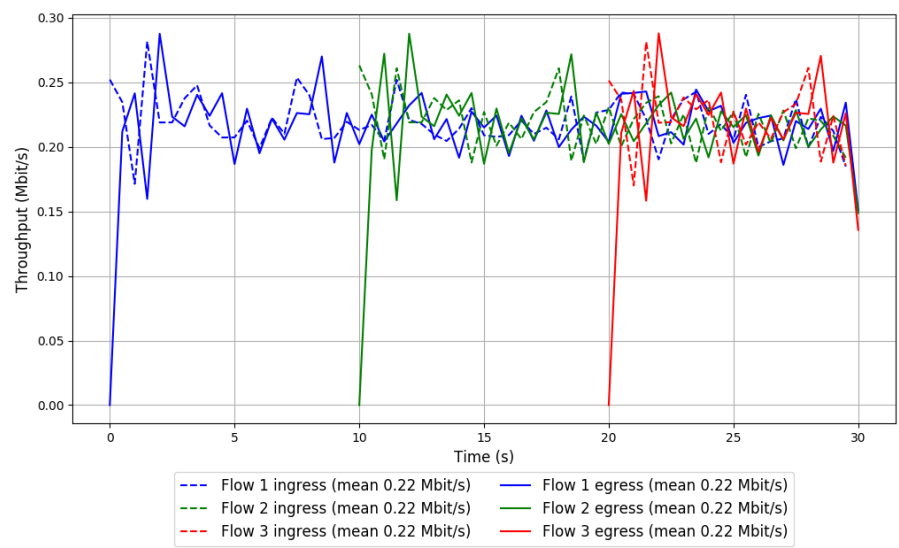
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.368 ms

Loss rate: 1.85%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SReAM

Start at: 2018-07-04 06:59:41

End at: 2018-07-04 07:00:11

Local clock offset: 0.048 ms

Remote clock offset: 0.035 ms

# Below is generated by plot.py at 2018-07-04 09:31:19

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 86.431 ms

Loss rate: 0.84%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.323 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.470 ms

Loss rate: 0.82%

-- Flow 3:

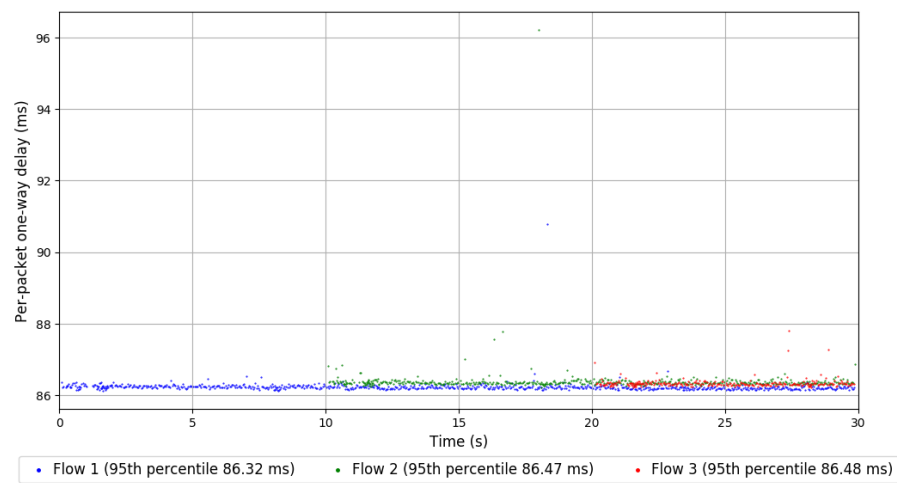
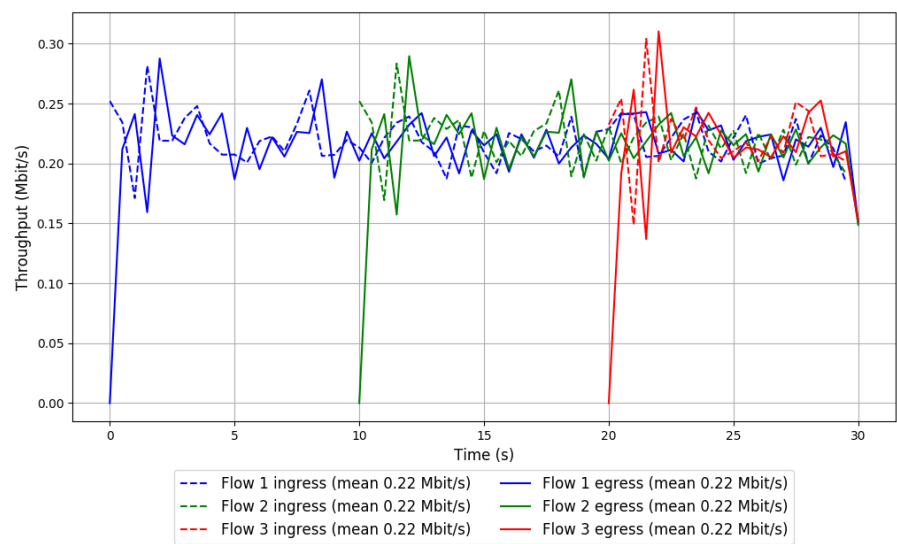
Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.479 ms

Loss rate: 1.85%



Run 9: Report of SReAM — Data Link



Run 10: Statistics of SCReAM

Start at: 2018-07-04 07:24:37

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

Local clock offset: 0.151 ms

Remote clock offset: 0.004 ms

# Below is generated by plot.py at 2018-07-04 09:31:19

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 86.801 ms

Loss rate: 0.84%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.840 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.644 ms

Loss rate: 0.82%

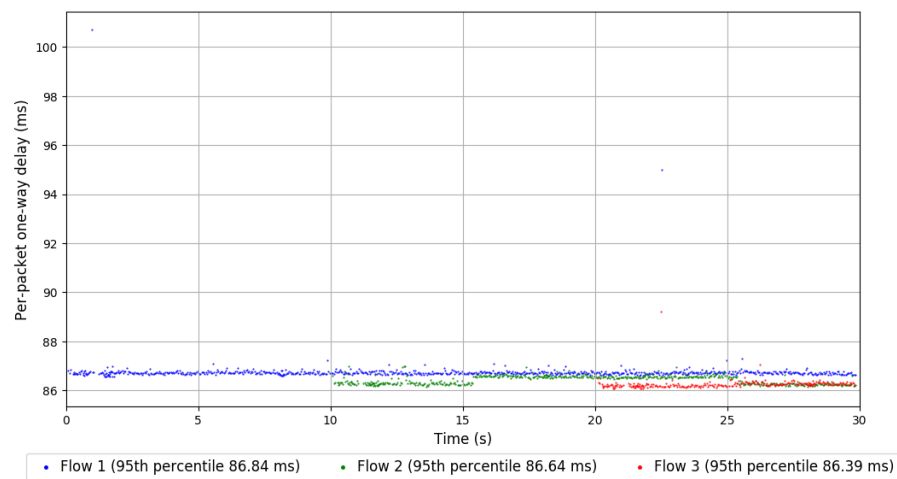
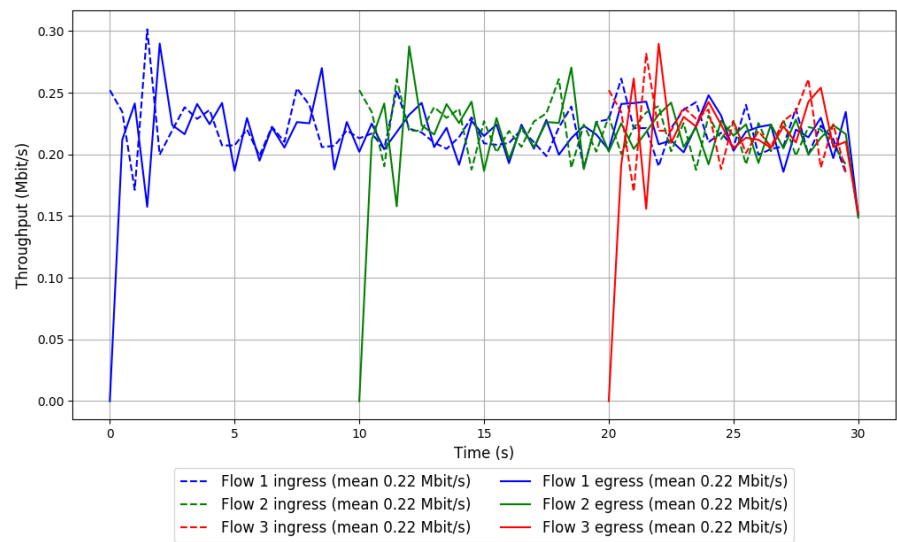
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.393 ms

Loss rate: 1.85%

Run 10: Report of SCRaM — Data Link



Run 1: Statistics of Sprout

Start at: 2018-07-04 03:37:38

End at: 2018-07-04 03:38:08

Local clock offset: -0.121 ms

Remote clock offset: 0.07 ms

# Below is generated by plot.py at 2018-07-04 09:31:19

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.72 Mbit/s

95th percentile per-packet one-way delay: 86.723 ms

Loss rate: 0.62%

-- Flow 1:

Average throughput: 0.32 Mbit/s

95th percentile per-packet one-way delay: 86.788 ms

Loss rate: 0.27%

-- Flow 2:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 86.696 ms

Loss rate: 0.46%

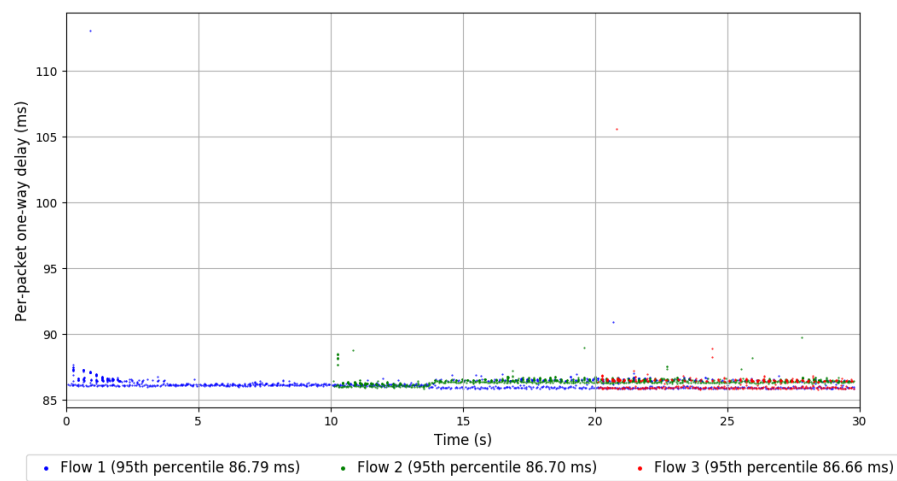
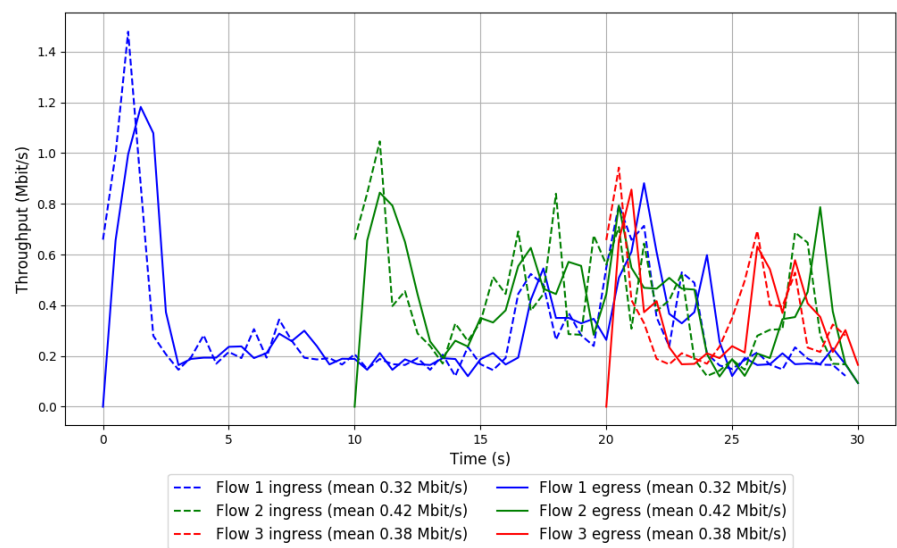
-- Flow 3:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 86.663 ms

Loss rate: 1.89%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-07-04 04:02:28

End at: 2018-07-04 04:02:58

Local clock offset: 0.009 ms

Remote clock offset: 0.129 ms

# Below is generated by plot.py at 2018-07-04 09:31:19

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.56 Mbit/s

95th percentile per-packet one-way delay: 86.523 ms

Loss rate: 0.50%

-- Flow 1:

Average throughput: 0.28 Mbit/s

95th percentile per-packet one-way delay: 86.394 ms

Loss rate: 0.16%

-- Flow 2:

Average throughput: 0.28 Mbit/s

95th percentile per-packet one-way delay: 86.566 ms

Loss rate: 0.85%

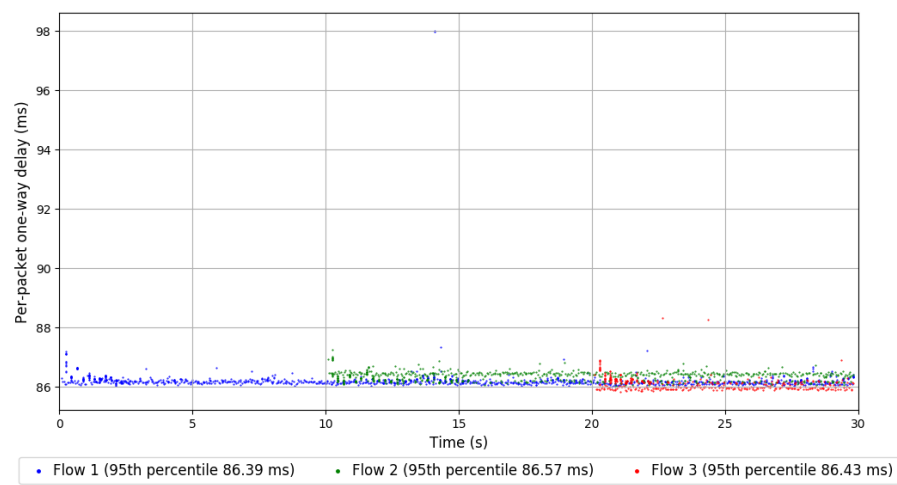
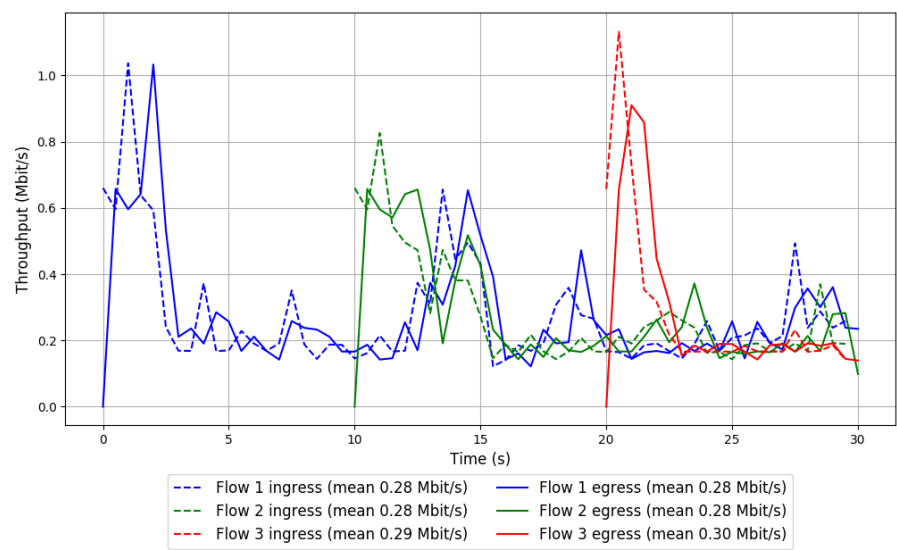
-- Flow 3:

Average throughput: 0.30 Mbit/s

95th percentile per-packet one-way delay: 86.434 ms

Loss rate: 0.82%

Run 2: Report of Sprout — Data Link



### Run 3: Statistics of Sprout

Start at: 2018-07-04 04:27:27

End at: 2018-07-04 04:27:57

Local clock offset: 0.129 ms

Remote clock offset: 0.11 ms

# Below is generated by plot.py at 2018-07-04 09:31:19

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.73 Mbit/s

95th percentile per-packet one-way delay: 86.842 ms

Loss rate: 0.54%

-- Flow 1:

Average throughput: 0.36 Mbit/s

95th percentile per-packet one-way delay: 86.803 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 0.34 Mbit/s

95th percentile per-packet one-way delay: 86.791 ms

Loss rate: 0.53%

-- Flow 3:

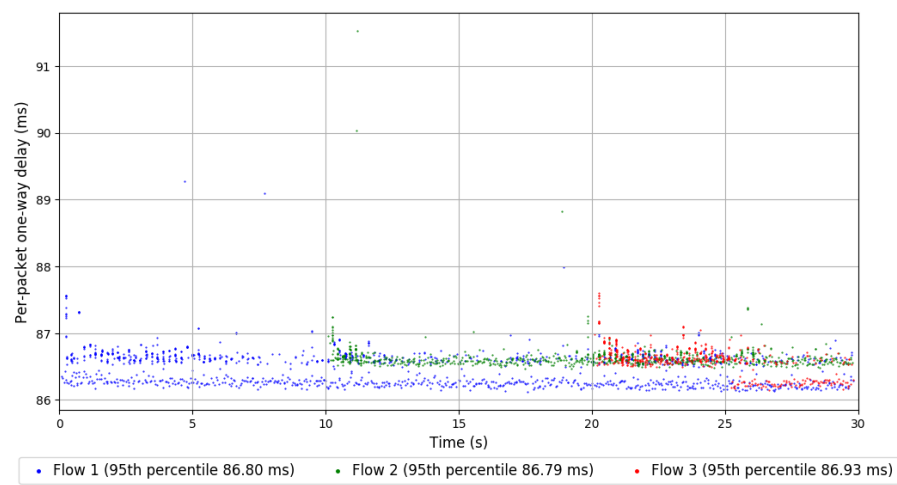
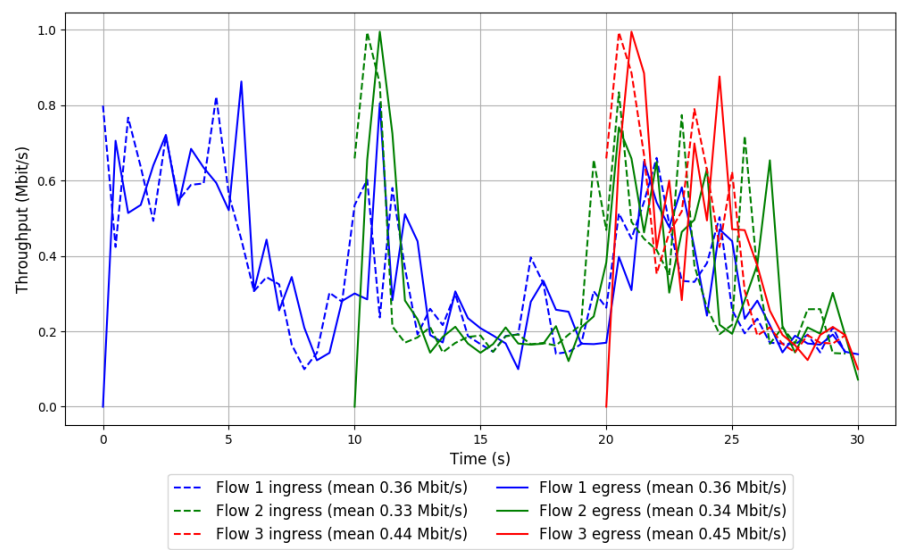
Average throughput: 0.45 Mbit/s

95th percentile per-packet one-way delay: 86.934 ms

Loss rate: 1.07%



Run 3: Report of Sprout — Data Link

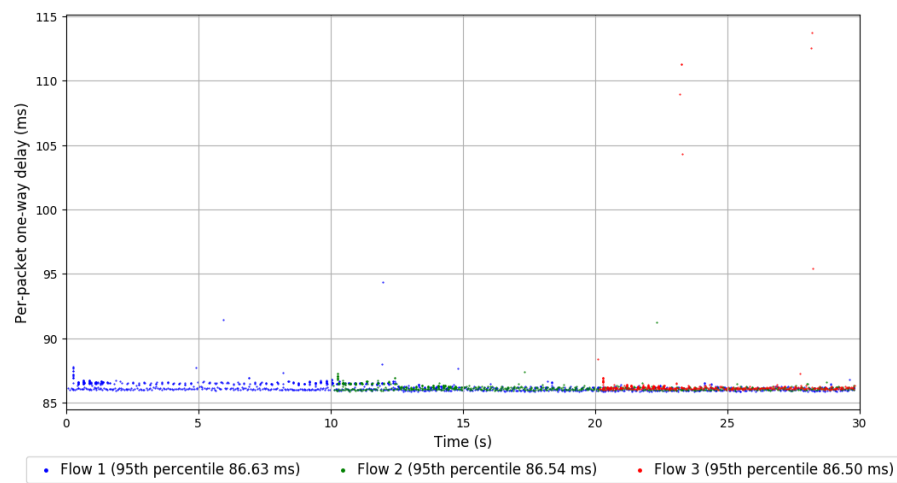
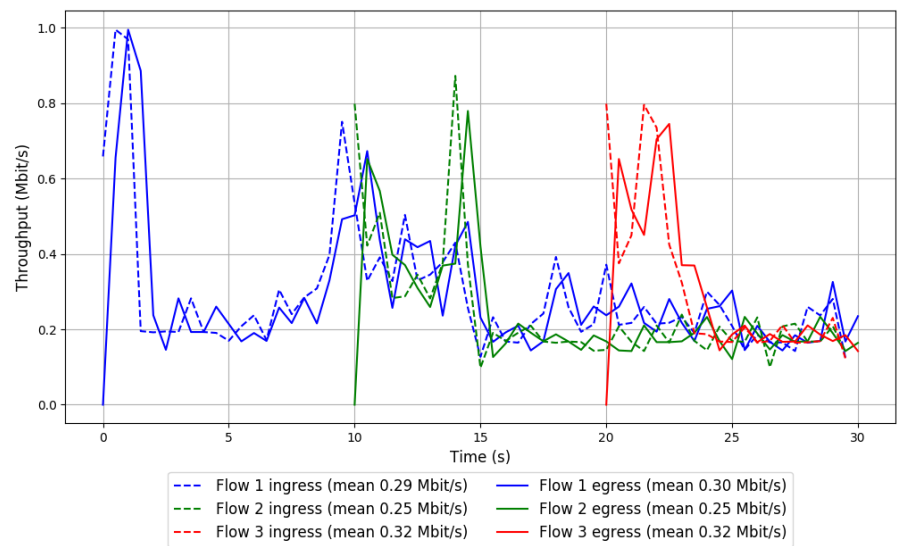


#### Run 4: Statistics of Sprout

Start at: 2018-07-04 04:52:20  
End at: 2018-07-04 04:52:50  
Local clock offset: -0.016 ms  
Remote clock offset: 0.026 ms

```
# Below is generated by plot.py at 2018-07-04 09:31:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.56 Mbit/s
95th percentile per-packet one-way delay: 86.614 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 0.30 Mbit/s
95th percentile per-packet one-way delay: 86.629 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 0.25 Mbit/s
95th percentile per-packet one-way delay: 86.536 ms
Loss rate: 0.48%
-- Flow 3:
Average throughput: 0.32 Mbit/s
95th percentile per-packet one-way delay: 86.505 ms
Loss rate: 0.46%
```

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-07-04 05:16:59

End at: 2018-07-04 05:17:29

Local clock offset: 0.089 ms

Remote clock offset: -0.02 ms

# Below is generated by plot.py at 2018-07-04 09:31:19

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.64 Mbit/s

95th percentile per-packet one-way delay: 86.751 ms

Loss rate: 0.55%

-- Flow 1:

Average throughput: 0.36 Mbit/s

95th percentile per-packet one-way delay: 86.752 ms

Loss rate: 0.34%

-- Flow 2:

Average throughput: 0.25 Mbit/s

95th percentile per-packet one-way delay: 86.705 ms

Loss rate: 0.91%

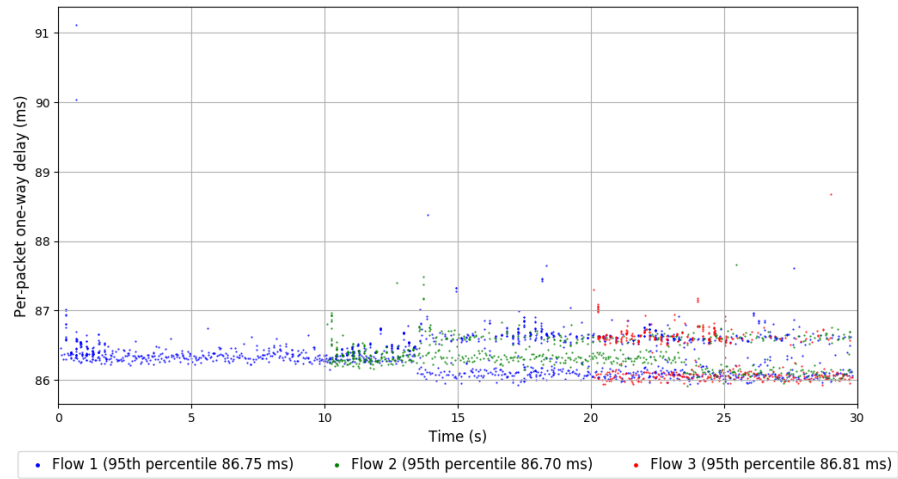
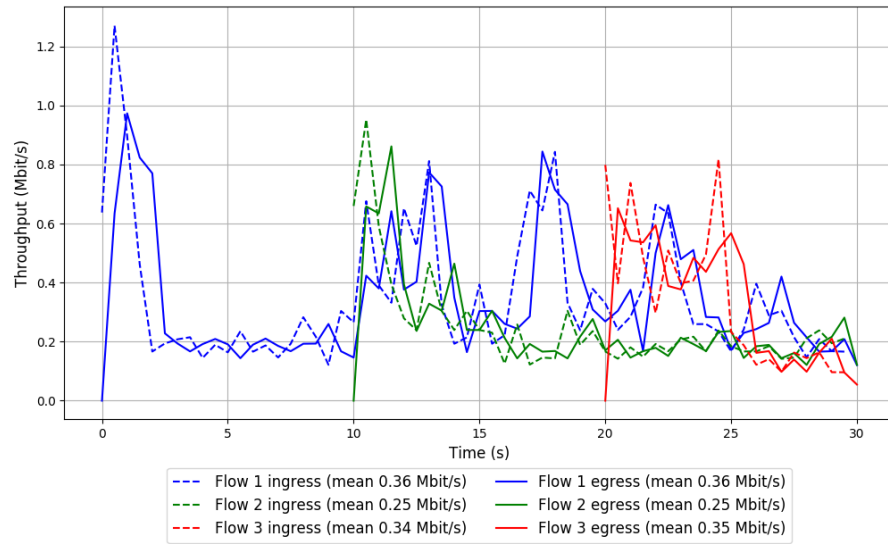
-- Flow 3:

Average throughput: 0.35 Mbit/s

95th percentile per-packet one-way delay: 86.807 ms

Loss rate: 0.68%

## Run 5: Report of Sprout — Data Link

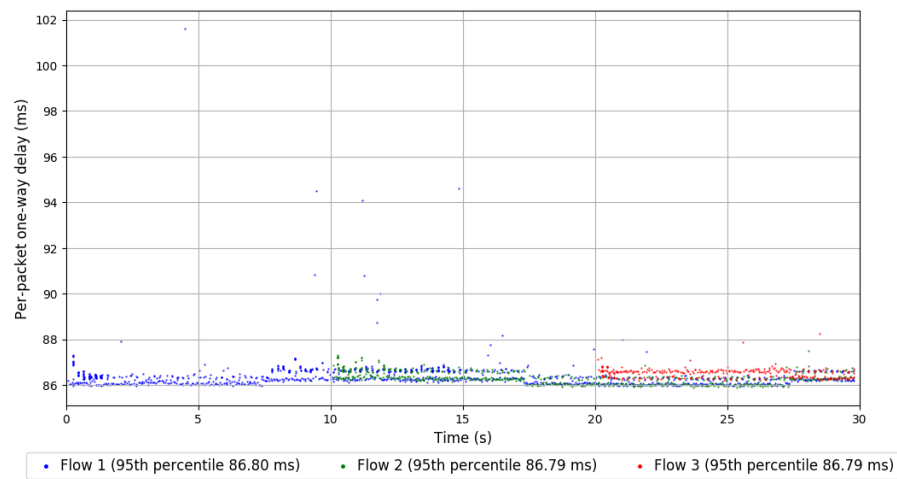
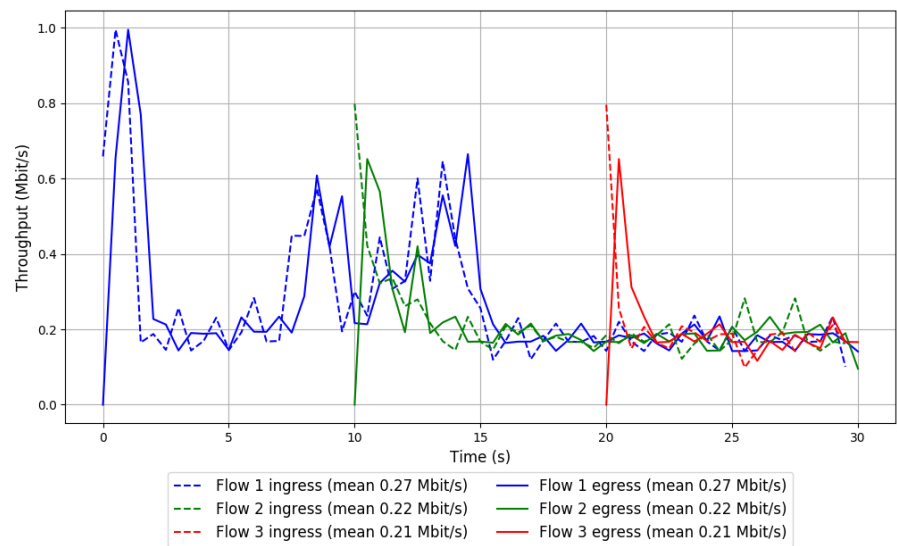


Run 6: Statistics of Sprout

Start at: 2018-07-04 05:41:55  
End at: 2018-07-04 05:42:25  
Local clock offset: 0.218 ms  
Remote clock offset: -0.05 ms

```
# Below is generated by plot.py at 2018-07-04 09:31:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.48 Mbit/s
95th percentile per-packet one-way delay: 86.794 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 0.27 Mbit/s
95th percentile per-packet one-way delay: 86.800 ms
Loss rate: 0.18%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.786 ms
Loss rate: 0.80%
-- Flow 3:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 86.794 ms
Loss rate: 1.09%
```

Run 6: Report of Sprout — Data Link



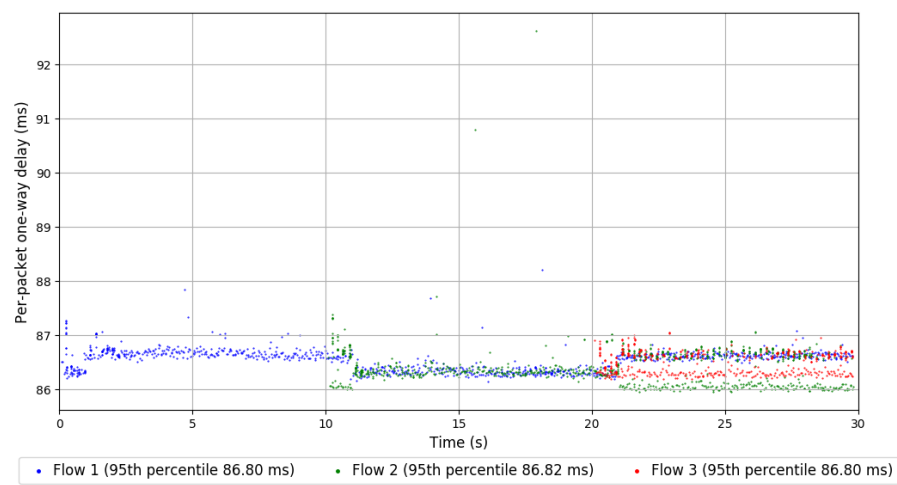
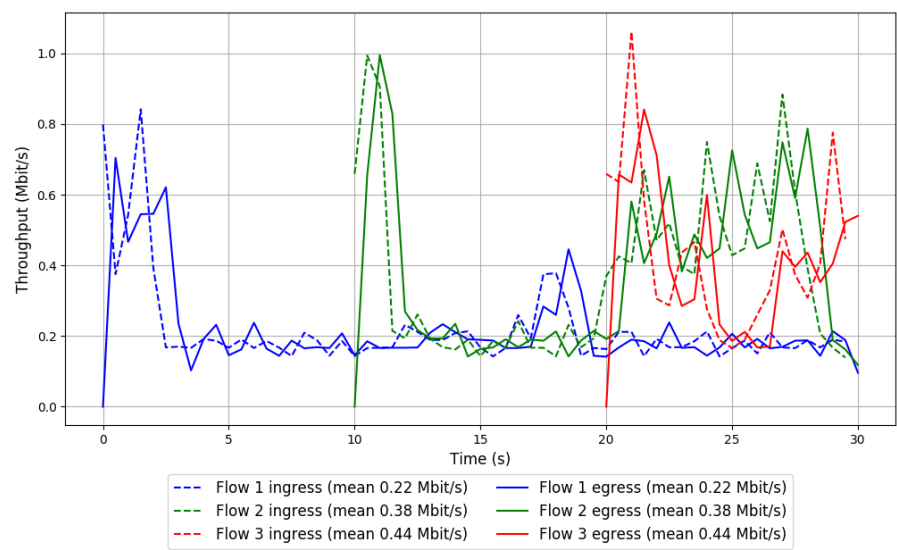
Run 7: Statistics of Sprout

Start at: 2018-07-04 06:06:41  
End at: 2018-07-04 06:07:11  
Local clock offset: -0.026 ms  
Remote clock offset: 0.082 ms

# Below is generated by plot.py at 2018-07-04 09:31:19  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.62 Mbit/s  
95th percentile per-packet one-way delay: 86.814 ms  
Loss rate: 0.88%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 86.798 ms  
Loss rate: 0.68%  
-- Flow 2:  
Average throughput: 0.38 Mbit/s  
95th percentile per-packet one-way delay: 86.818 ms  
Loss rate: 0.31%  
-- Flow 3:  
Average throughput: 0.44 Mbit/s  
95th percentile per-packet one-way delay: 86.802 ms  
Loss rate: 2.18%



Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-07-04 06:31:13

End at: 2018-07-04 06:31:43

Local clock offset: -0.15 ms

Remote clock offset: 0.156 ms

# Below is generated by plot.py at 2018-07-04 09:31:19

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.54 Mbit/s

95th percentile per-packet one-way delay: 86.729 ms

Loss rate: 0.68%

-- Flow 1:

Average throughput: 0.25 Mbit/s

95th percentile per-packet one-way delay: 86.667 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.722 ms

Loss rate: 0.33%

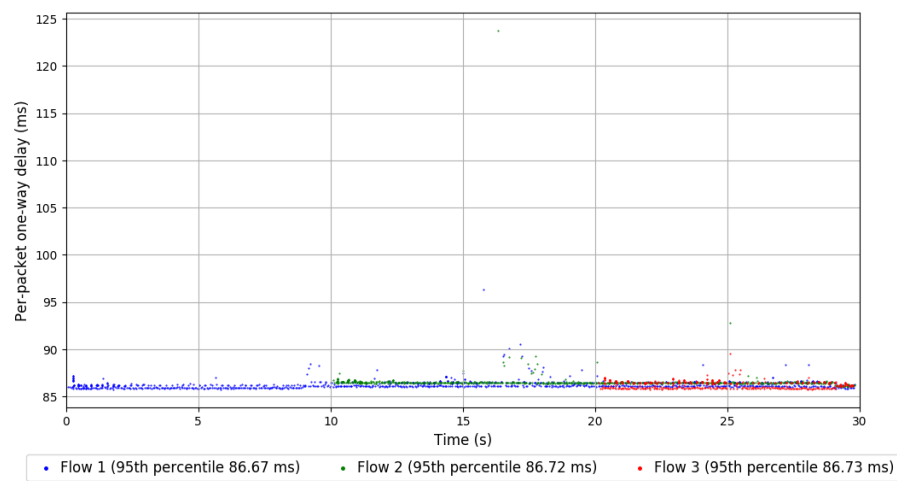
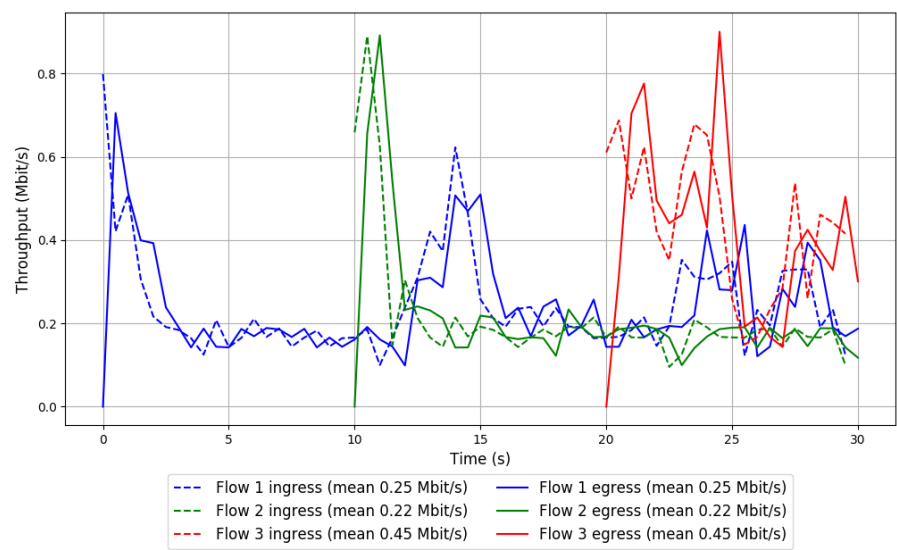
-- Flow 3:

Average throughput: 0.45 Mbit/s

95th percentile per-packet one-way delay: 86.730 ms

Loss rate: 2.13%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-07-04 06:55:31

End at: 2018-07-04 06:56:01

Local clock offset: 0.001 ms

Remote clock offset: 0.109 ms

# Below is generated by plot.py at 2018-07-04 09:31:19

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.49 Mbit/s

95th percentile per-packet one-way delay: 86.728 ms

Loss rate: 0.73%

-- Flow 1:

Average throughput: 0.23 Mbit/s

95th percentile per-packet one-way delay: 86.701 ms

Loss rate: 0.35%

-- Flow 2:

Average throughput: 0.27 Mbit/s

95th percentile per-packet one-way delay: 86.726 ms

Loss rate: 0.65%

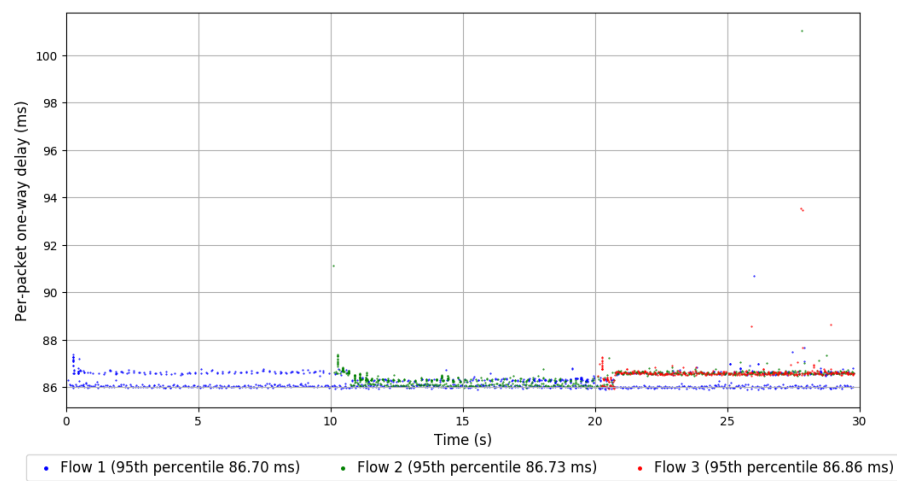
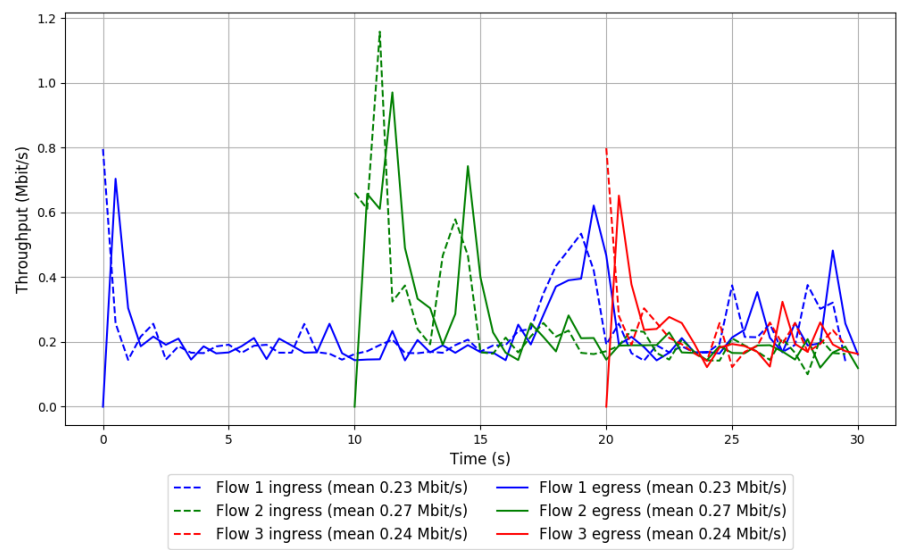
-- Flow 3:

Average throughput: 0.24 Mbit/s

95th percentile per-packet one-way delay: 86.860 ms

Loss rate: 2.00%

Run 9: Report of Sprout — Data Link

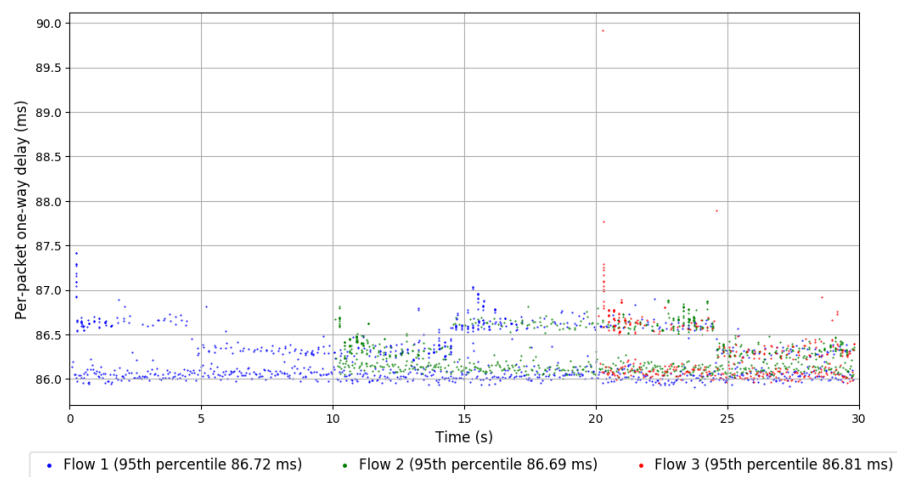
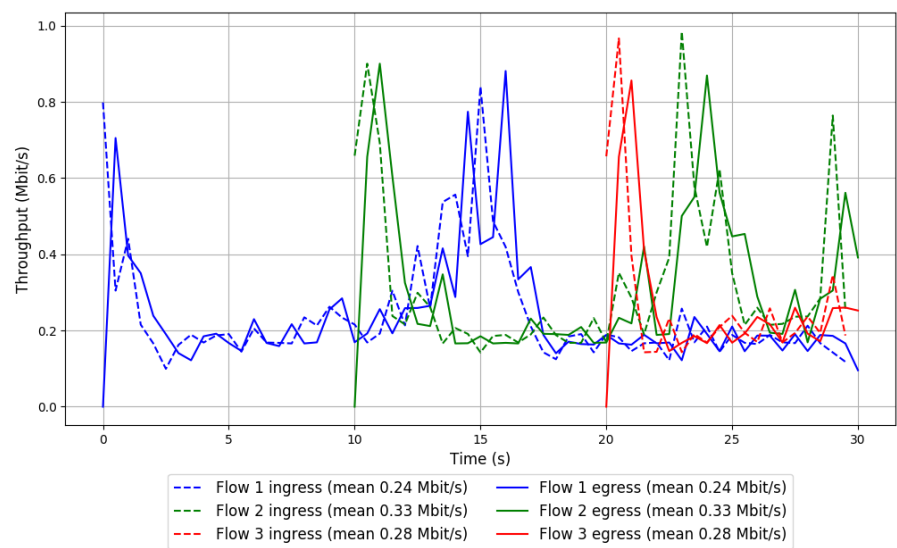


Run 10: Statistics of Sprout

Start at: 2018-07-04 07:20:28  
End at: 2018-07-04 07:20:58  
Local clock offset: 0.011 ms  
Remote clock offset: -0.061 ms

```
# Below is generated by plot.py at 2018-07-04 09:31:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.55 Mbit/s
95th percentile per-packet one-way delay: 86.730 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 0.24 Mbit/s
95th percentile per-packet one-way delay: 86.717 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 0.33 Mbit/s
95th percentile per-packet one-way delay: 86.688 ms
Loss rate: 0.52%
-- Flow 3:
Average throughput: 0.28 Mbit/s
95th percentile per-packet one-way delay: 86.808 ms
Loss rate: 0.42%
```

Run 10: Report of Sprout — Data Link



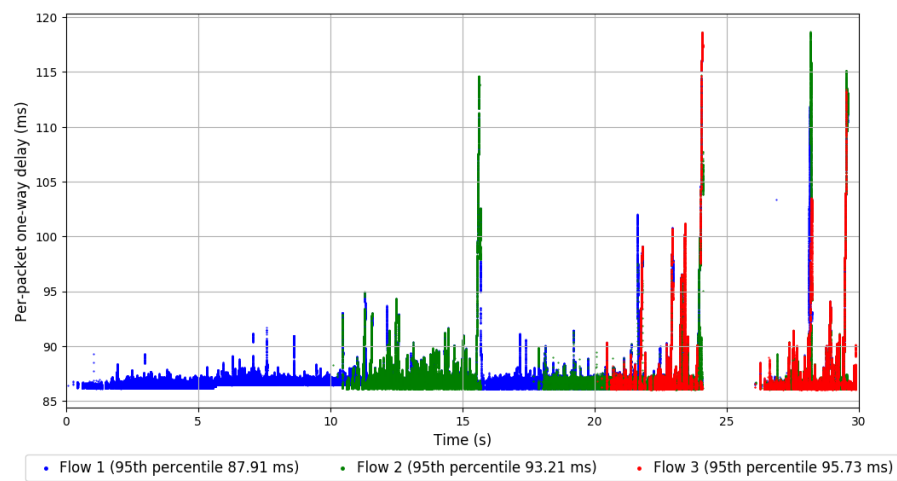
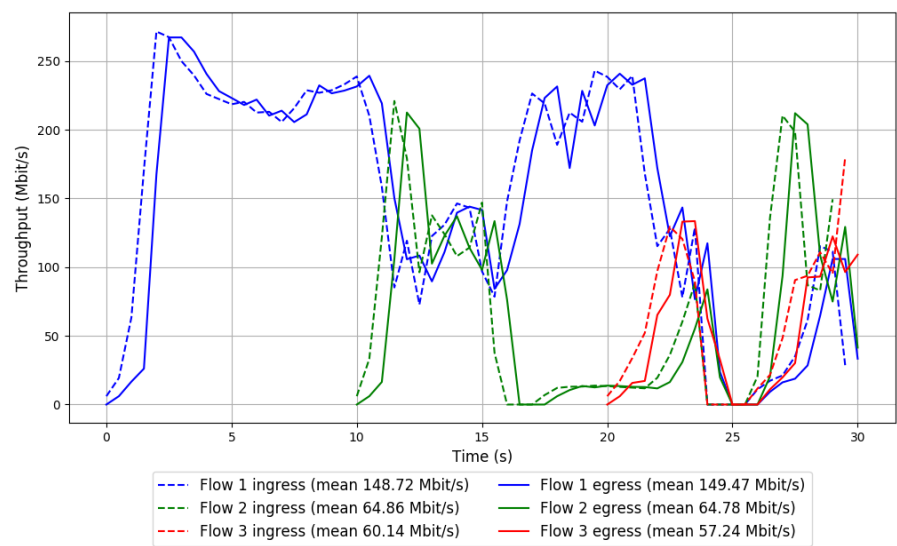
```
Run 1: Statistics of TaoVA-100x

Start at: 2018-07-04 03:27:17
End at: 2018-07-04 03:27:47
Local clock offset: 0.129 ms
Remote clock offset: 0.035 ms

# Below is generated by plot.py at 2018-07-04 09:34:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 210.23 Mbit/s
95th percentile per-packet one-way delay: 89.171 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 149.47 Mbit/s
95th percentile per-packet one-way delay: 87.912 ms
Loss rate: 0.21%
-- Flow 2:
Average throughput: 64.78 Mbit/s
95th percentile per-packet one-way delay: 93.214 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 57.24 Mbit/s
95th percentile per-packet one-way delay: 95.732 ms
Loss rate: 6.47%
```



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



Run 2: Statistics of TaoVA-100x

Start at: 2018-07-04 03:52:23

End at: 2018-07-04 03:52:53

Local clock offset: 0.097 ms

Remote clock offset: 0.076 ms

# Below is generated by plot.py at 2018-07-04 09:34:57

# Datalink statistics

-- Total of 3 flows:

Average throughput: 208.13 Mbit/s

95th percentile per-packet one-way delay: 90.873 ms

Loss rate: 0.15%

-- Flow 1:

Average throughput: 155.58 Mbit/s

95th percentile per-packet one-way delay: 89.575 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 63.04 Mbit/s

95th percentile per-packet one-way delay: 92.445 ms

Loss rate: 0.00%

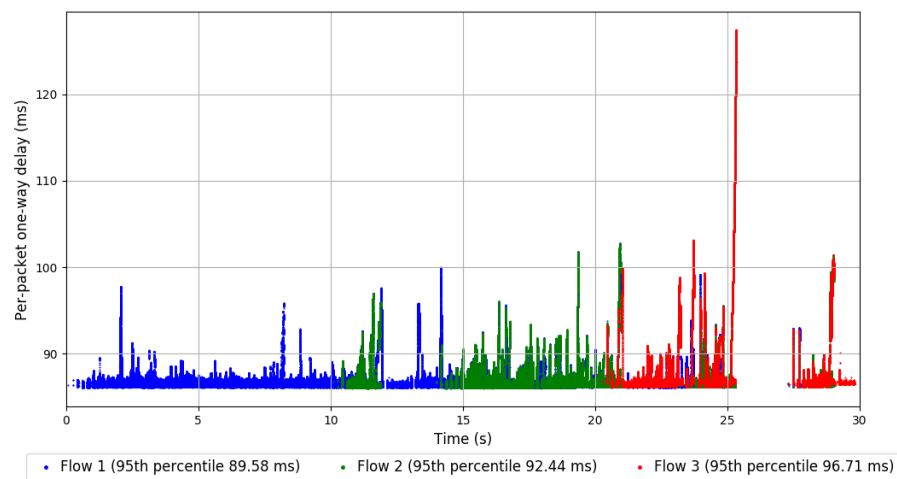
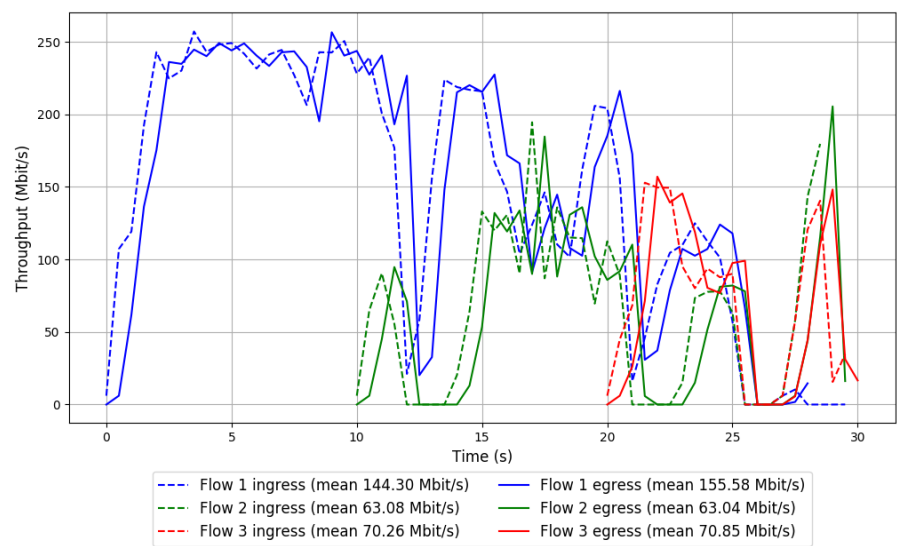
-- Flow 3:

Average throughput: 70.85 Mbit/s

95th percentile per-packet one-way delay: 96.707 ms

Loss rate: 1.35%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-07-04 04:17:13

End at: 2018-07-04 04:17:43

Local clock offset: 0.035 ms

Remote clock offset: 0.094 ms

# Below is generated by plot.py at 2018-07-04 09:35:30

# Datalink statistics

-- Total of 3 flows:

Average throughput: 211.08 Mbit/s

95th percentile per-packet one-way delay: 89.617 ms

Loss rate: 0.38%

-- Flow 1:

Average throughput: 140.18 Mbit/s

95th percentile per-packet one-way delay: 88.871 ms

Loss rate: 0.58%

-- Flow 2:

Average throughput: 66.82 Mbit/s

95th percentile per-packet one-way delay: 92.009 ms

Loss rate: 0.00%

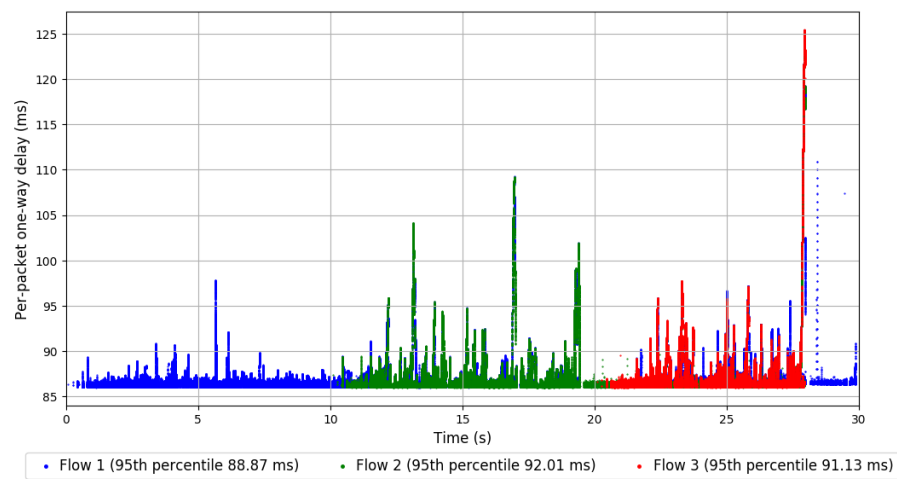
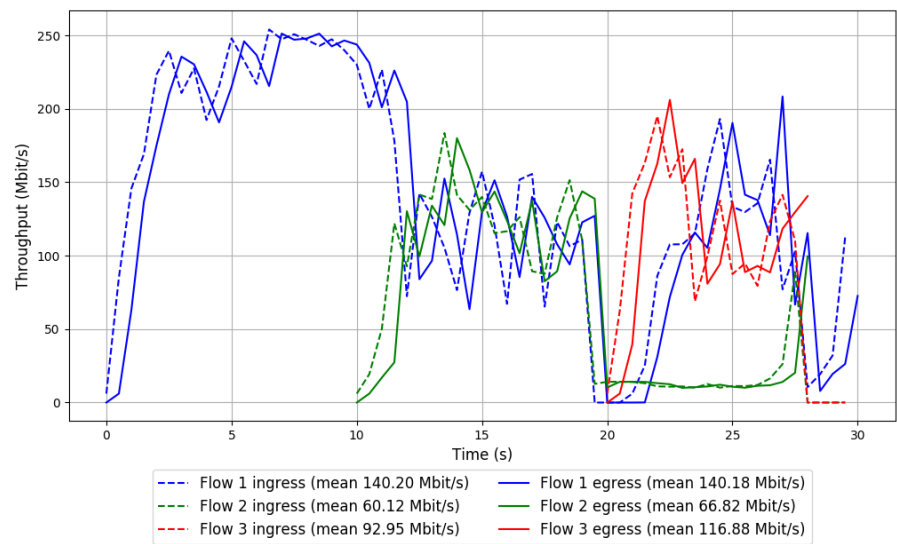
-- Flow 3:

Average throughput: 116.88 Mbit/s

95th percentile per-packet one-way delay: 91.130 ms

Loss rate: 0.00%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-07-04 04:42:00

End at: 2018-07-04 04:42:30

Local clock offset: 0.118 ms

Remote clock offset: 0.019 ms

# Below is generated by plot.py at 2018-07-04 09:36:13

# Datalink statistics

-- Total of 3 flows:

Average throughput: 229.05 Mbit/s

95th percentile per-packet one-way delay: 90.652 ms

Loss rate: 0.98%

-- Flow 1:

Average throughput: 117.54 Mbit/s

95th percentile per-packet one-way delay: 88.973 ms

Loss rate: 0.52%

-- Flow 2:

Average throughput: 152.02 Mbit/s

95th percentile per-packet one-way delay: 92.388 ms

Loss rate: 0.85%

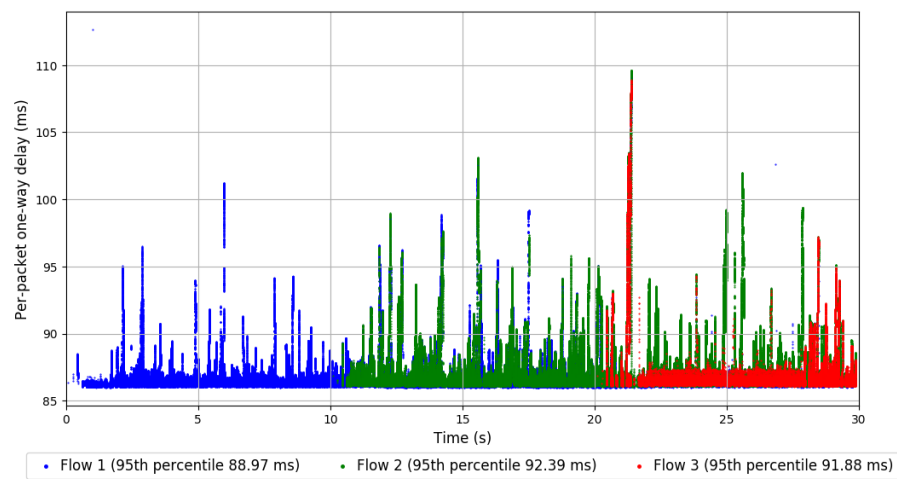
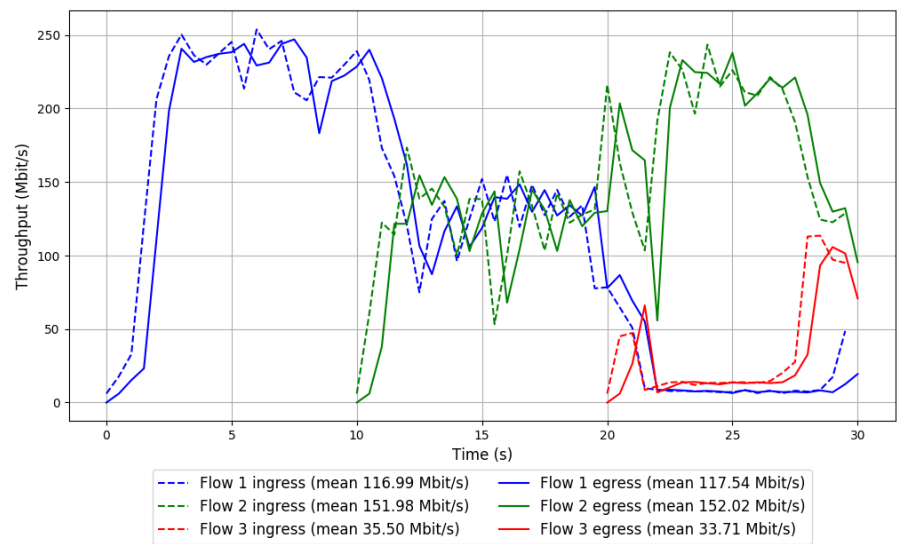
-- Flow 3:

Average throughput: 33.71 Mbit/s

95th percentile per-packet one-way delay: 91.881 ms

Loss rate: 6.71%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-07-04 05:06:48

End at: 2018-07-04 05:07:18

Local clock offset: 0.194 ms

Remote clock offset: 0.009 ms

# Below is generated by plot.py at 2018-07-04 09:36:13

# Datalink statistics

-- Total of 3 flows:

Average throughput: 182.03 Mbit/s

95th percentile per-packet one-way delay: 89.710 ms

Loss rate: 0.83%

-- Flow 1:

Average throughput: 149.24 Mbit/s

95th percentile per-packet one-way delay: 88.322 ms

Loss rate: 0.55%

-- Flow 2:

Average throughput: 33.40 Mbit/s

95th percentile per-packet one-way delay: 99.148 ms

Loss rate: 0.00%

-- Flow 3:

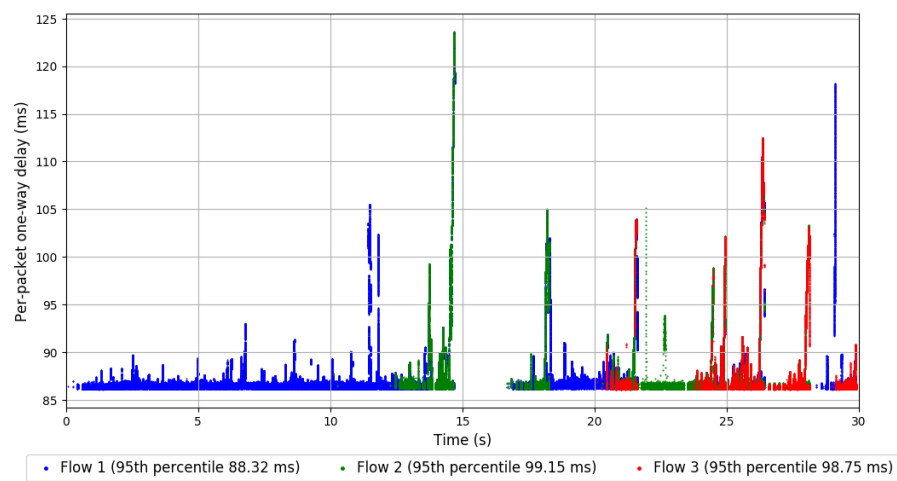
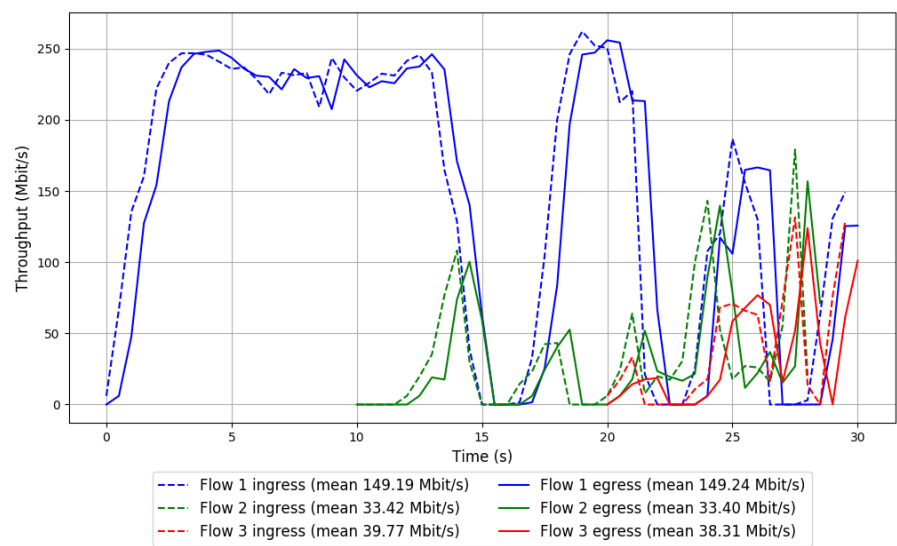
Average throughput: 38.31 Mbit/s

95th percentile per-packet one-way delay: 98.747 ms

Loss rate: 5.34%



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

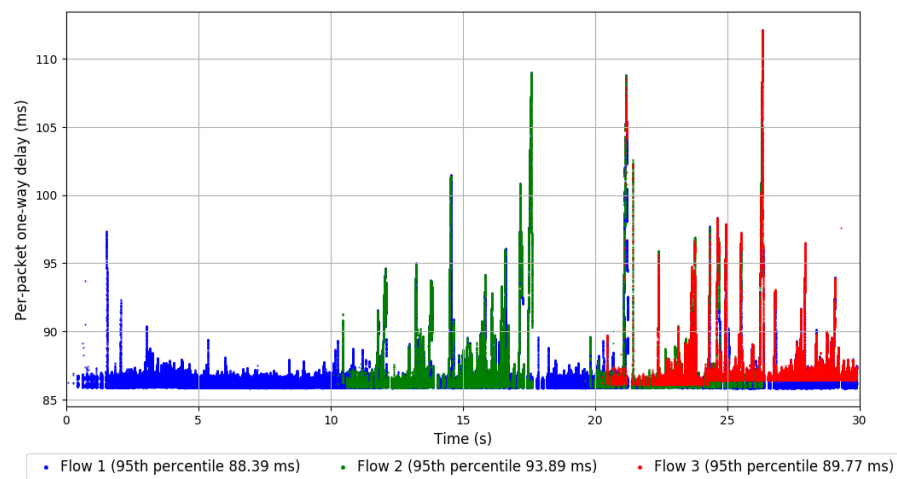
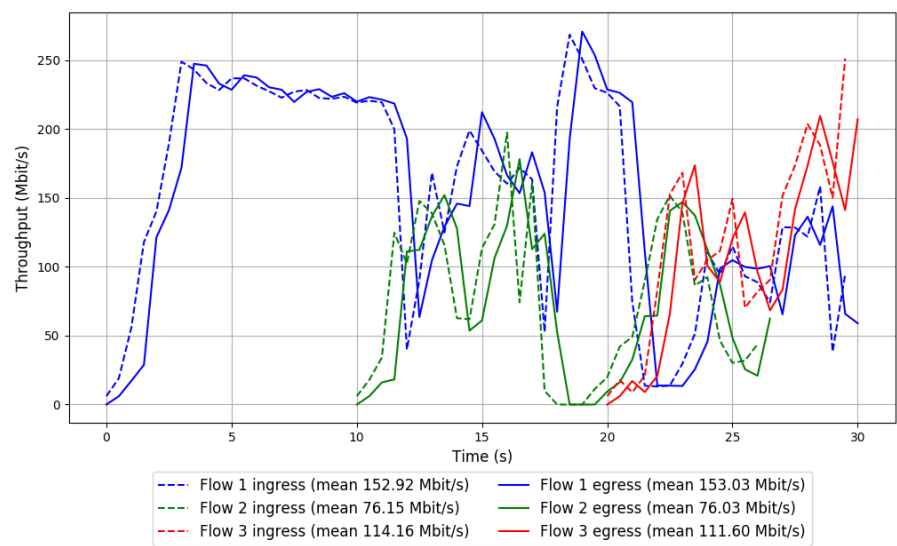


Run 6: Statistics of TaoVA-100x

Start at: 2018-07-04 05:31:38  
End at: 2018-07-04 05:32:08  
Local clock offset: 0.186 ms  
Remote clock offset: -0.033 ms

# Below is generated by plot.py at 2018-07-04 09:36:25  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 231.09 Mbit/s  
95th percentile per-packet one-way delay: 89.937 ms  
Loss rate: 0.98%  
-- Flow 1:  
Average throughput: 153.03 Mbit/s  
95th percentile per-packet one-way delay: 88.390 ms  
Loss rate: 0.50%  
-- Flow 2:  
Average throughput: 76.03 Mbit/s  
95th percentile per-packet one-way delay: 93.893 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 111.60 Mbit/s  
95th percentile per-packet one-way delay: 89.773 ms  
Loss rate: 3.95%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-07-04 05:56:30

End at: 2018-07-04 05:57:00

Local clock offset: 0.083 ms

Remote clock offset: 0.077 ms

# Below is generated by plot.py at 2018-07-04 09:36:25

# Datalink statistics

-- Total of 3 flows:

Average throughput: 204.82 Mbit/s

95th percentile per-packet one-way delay: 89.628 ms

Loss rate: 0.99%

-- Flow 1:

Average throughput: 141.14 Mbit/s

95th percentile per-packet one-way delay: 88.662 ms

Loss rate: 0.69%

-- Flow 2:

Average throughput: 81.06 Mbit/s

95th percentile per-packet one-way delay: 89.963 ms

Loss rate: 1.95%

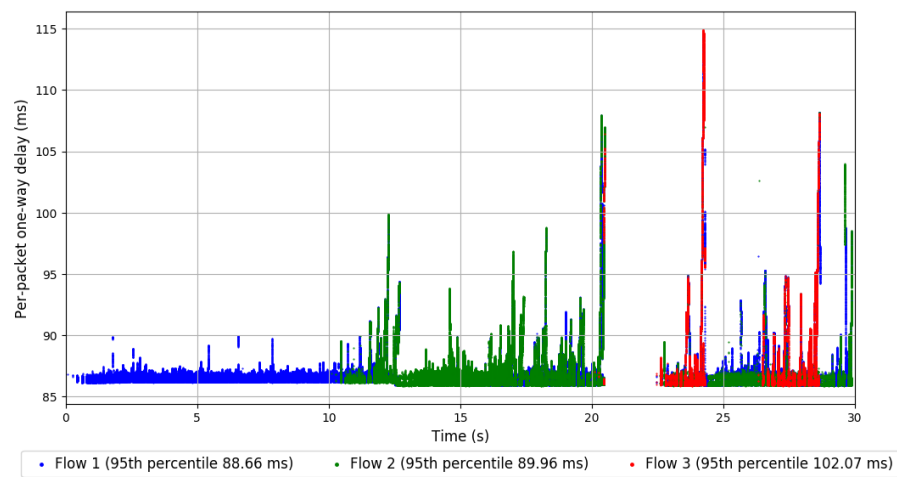
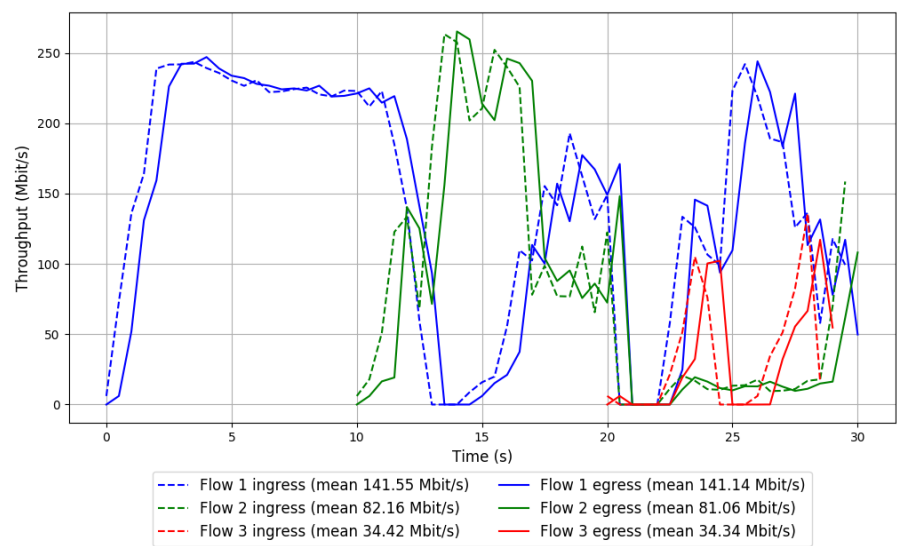
-- Flow 3:

Average throughput: 34.34 Mbit/s

95th percentile per-packet one-way delay: 102.066 ms

Loss rate: 0.00%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-07-04 06:20:58

End at: 2018-07-04 06:21:28

Local clock offset: -0.013 ms

Remote clock offset: 0.138 ms

# Below is generated by plot.py at 2018-07-04 09:39:23

# Datalink statistics

-- Total of 3 flows:

Average throughput: 211.85 Mbit/s

95th percentile per-packet one-way delay: 90.034 ms

Loss rate: 0.50%

-- Flow 1:

Average throughput: 146.77 Mbit/s

95th percentile per-packet one-way delay: 88.328 ms

Loss rate: 0.31%

-- Flow 2:

Average throughput: 52.94 Mbit/s

95th percentile per-packet one-way delay: 96.192 ms

Loss rate: 1.38%

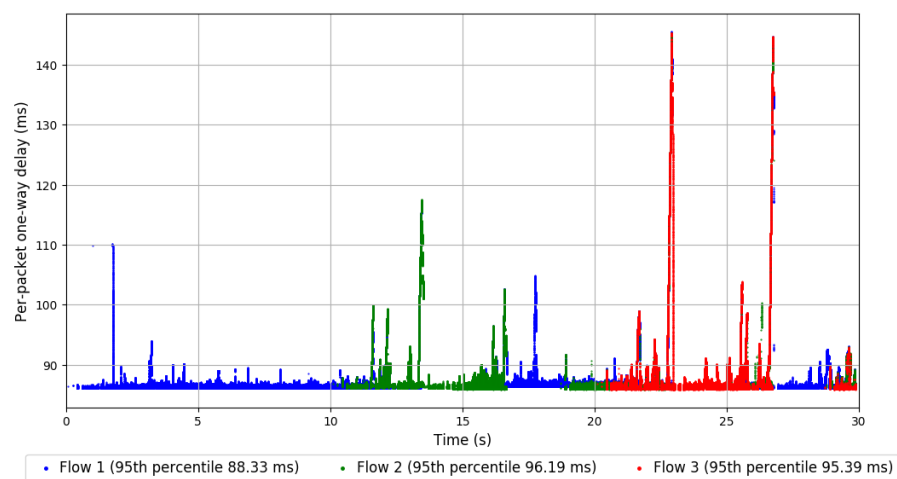
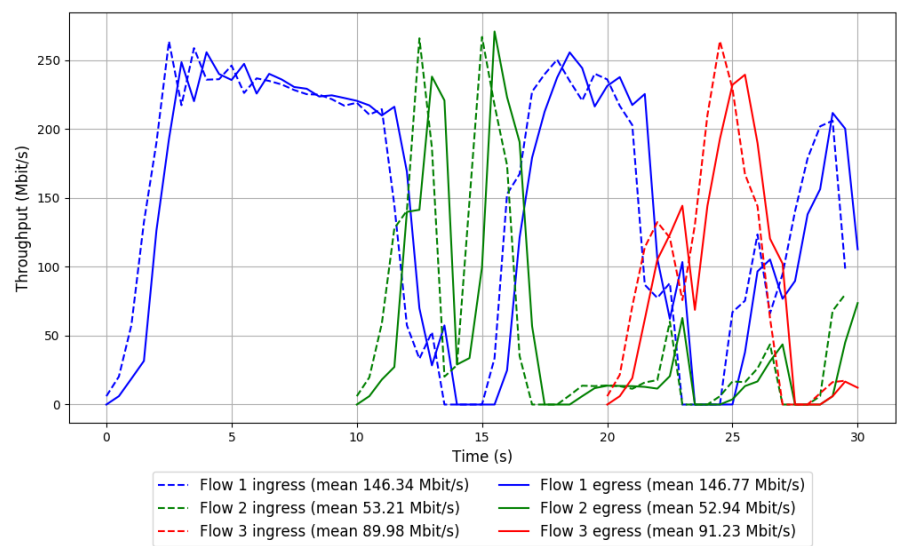
-- Flow 3:

Average throughput: 91.23 Mbit/s

95th percentile per-packet one-way delay: 95.389 ms

Loss rate: 0.38%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-07-04 06:45:24

End at: 2018-07-04 06:45:54

Local clock offset: 0.032 ms

Remote clock offset: 0.162 ms

# Below is generated by plot.py at 2018-07-04 09:43:10

# Datalink statistics

-- Total of 3 flows:

Average throughput: 236.14 Mbit/s

95th percentile per-packet one-way delay: 90.574 ms

Loss rate: 0.44%

-- Flow 1:

Average throughput: 145.01 Mbit/s

95th percentile per-packet one-way delay: 89.135 ms

Loss rate: 0.35%

-- Flow 2:

Average throughput: 77.21 Mbit/s

95th percentile per-packet one-way delay: 92.286 ms

Loss rate: 0.03%

-- Flow 3:

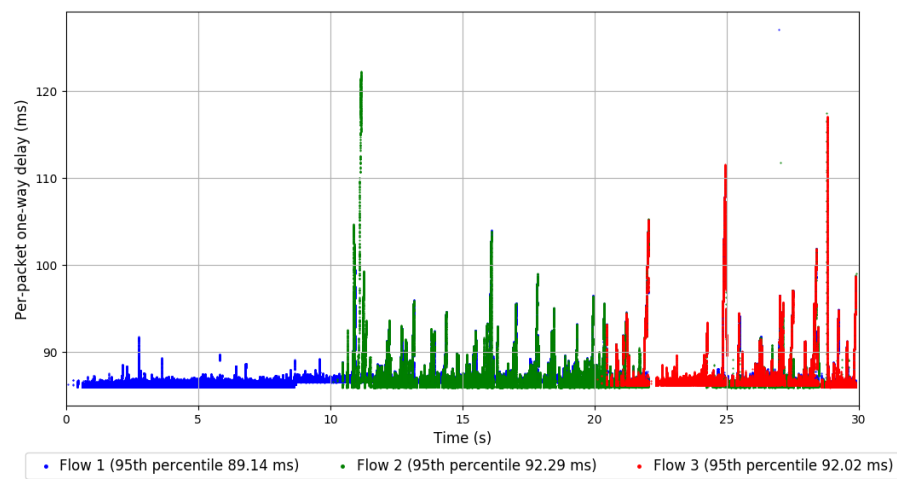
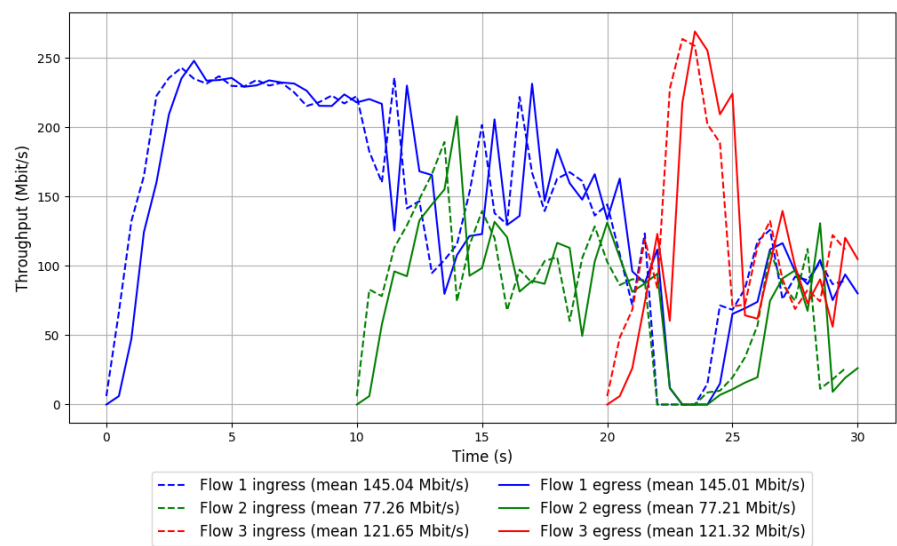
Average throughput: 121.32 Mbit/s

95th percentile per-packet one-way delay: 92.017 ms

Loss rate: 1.27%



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



Run 10: Statistics of TaoVA-100x

Start at: 2018-07-04 07:10:14

End at: 2018-07-04 07:10:44

Local clock offset: 0.041 ms

Remote clock offset: 0.015 ms

# Below is generated by plot.py at 2018-07-04 09:43:10

# Datalink statistics

-- Total of 3 flows:

Average throughput: 210.21 Mbit/s

95th percentile per-packet one-way delay: 89.722 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 126.46 Mbit/s

95th percentile per-packet one-way delay: 88.935 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 89.43 Mbit/s

95th percentile per-packet one-way delay: 90.301 ms

Loss rate: 0.09%

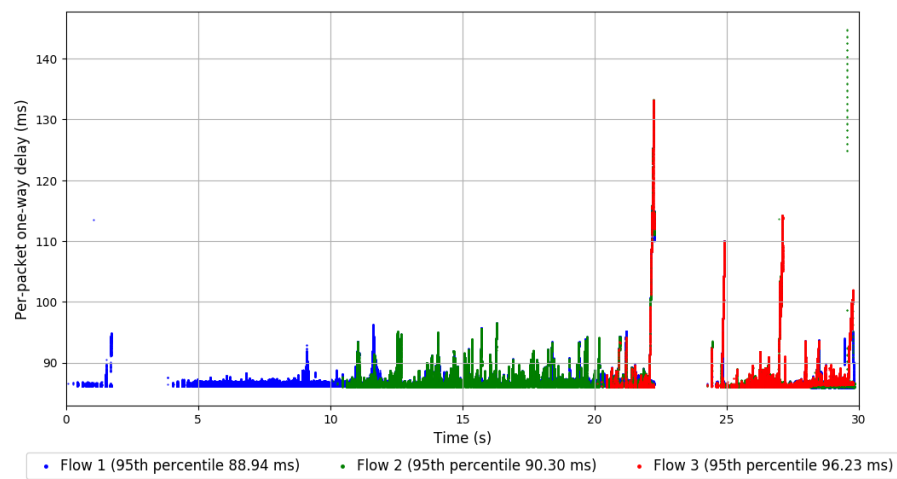
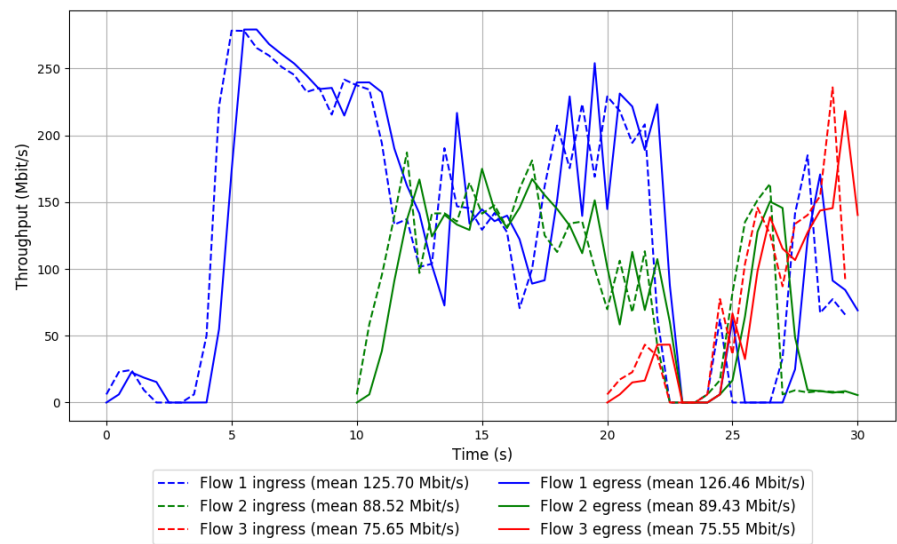
-- Flow 3:

Average throughput: 75.55 Mbit/s

95th percentile per-packet one-way delay: 96.231 ms

Loss rate: 0.00%

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

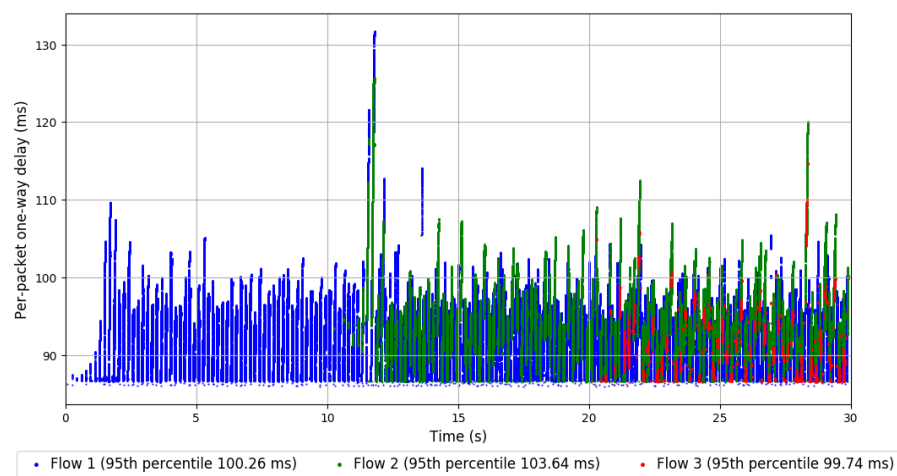
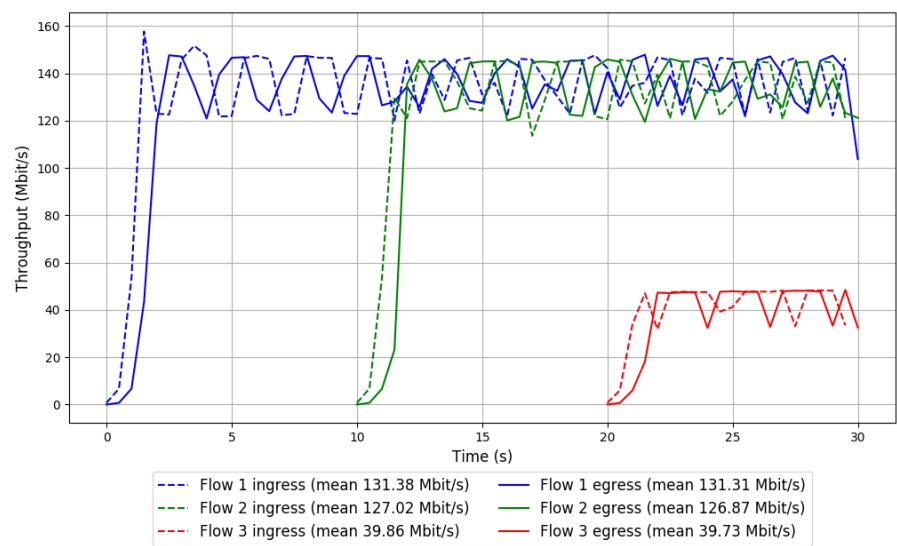


Run 1: Statistics of TCP Vegas

Start at: 2018-07-04 03:34:46  
End at: 2018-07-04 03:35:16  
Local clock offset: -0.014 ms  
Remote clock offset: -0.023 ms

# Below is generated by plot.py at 2018-07-04 09:43:10  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 228.51 Mbit/s  
95th percentile per-packet one-way delay: 101.836 ms  
Loss rate: 0.82%  
-- Flow 1:  
Average throughput: 131.31 Mbit/s  
95th percentile per-packet one-way delay: 100.257 ms  
Loss rate: 0.61%  
-- Flow 2:  
Average throughput: 126.87 Mbit/s  
95th percentile per-packet one-way delay: 103.644 ms  
Loss rate: 0.95%  
-- Flow 3:  
Average throughput: 39.73 Mbit/s  
95th percentile per-packet one-way delay: 99.743 ms  
Loss rate: 2.06%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-07-04 03:59:42

End at: 2018-07-04 04:00:12

Local clock offset: -0.032 ms

Remote clock offset: 0.078 ms

# Below is generated by plot.py at 2018-07-04 09:43:10

# Datalink statistics

-- Total of 3 flows:

Average throughput: 132.88 Mbit/s

95th percentile per-packet one-way delay: 98.064 ms

Loss rate: 1.02%

-- Flow 1:

Average throughput: 37.48 Mbit/s

95th percentile per-packet one-way delay: 96.002 ms

Loss rate: 0.64%

-- Flow 2:

Average throughput: 84.52 Mbit/s

95th percentile per-packet one-way delay: 98.519 ms

Loss rate: 0.57%

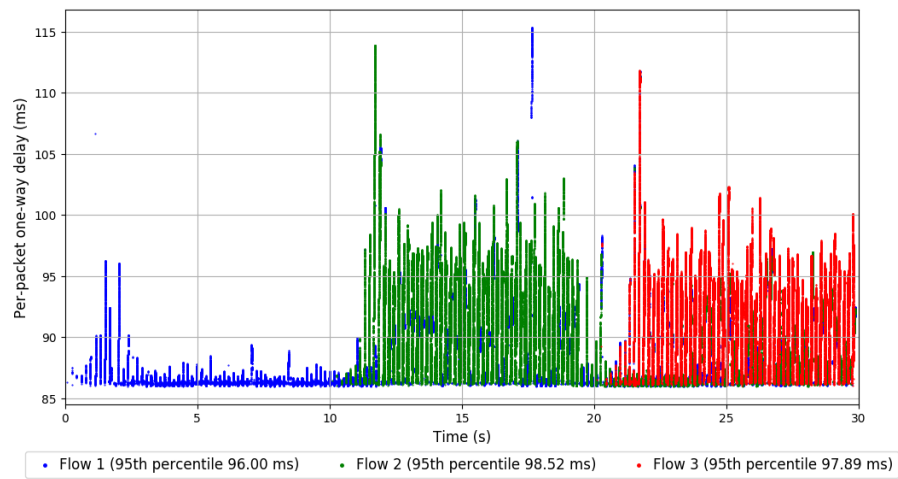
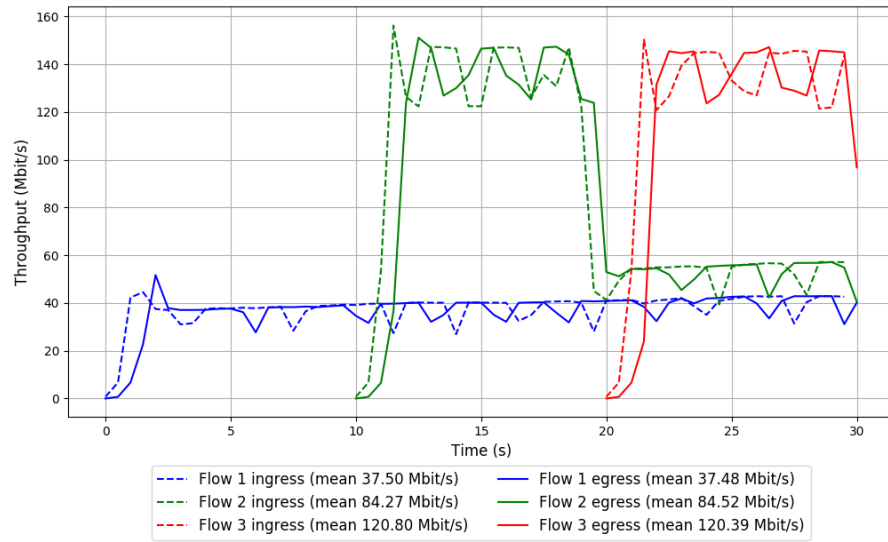
-- Flow 3:

Average throughput: 120.39 Mbit/s

95th percentile per-packet one-way delay: 97.889 ms

Loss rate: 2.02%

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



Run 3: Statistics of TCP Vegas

Start at: 2018-07-04 04:24:38

End at: 2018-07-04 04:25:08

Local clock offset: -0.241 ms

Remote clock offset: 0.118 ms

# Below is generated by plot.py at 2018-07-04 09:43:10

# Datalink statistics

-- Total of 3 flows:

Average throughput: 185.96 Mbit/s

95th percentile per-packet one-way delay: 97.009 ms

Loss rate: 0.53%

-- Flow 1:

Average throughput: 103.58 Mbit/s

95th percentile per-packet one-way delay: 94.978 ms

Loss rate: 0.62%

-- Flow 2:

Average throughput: 118.68 Mbit/s

95th percentile per-packet one-way delay: 98.284 ms

Loss rate: 0.34%

-- Flow 3:

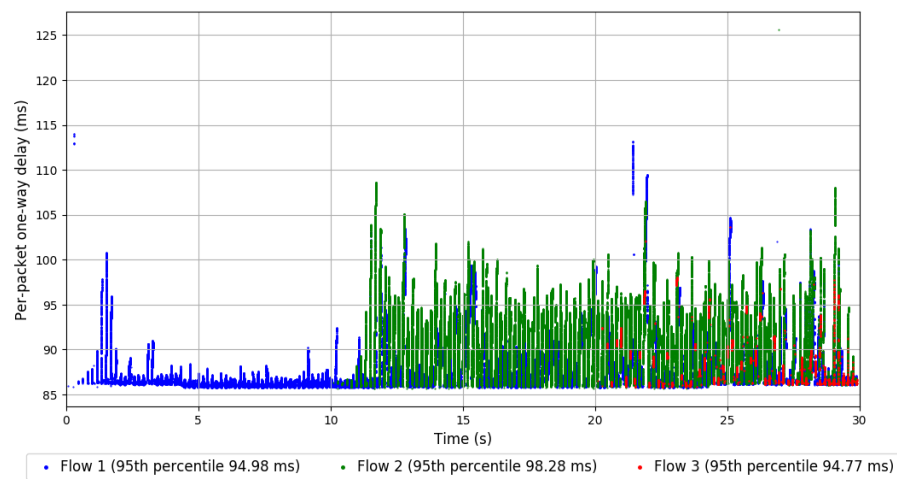
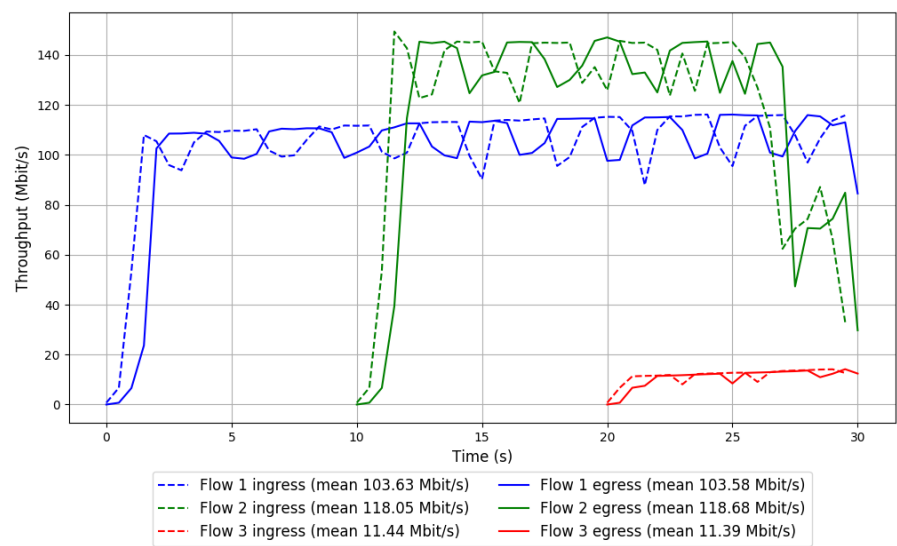
Average throughput: 11.39 Mbit/s

95th percentile per-packet one-way delay: 94.765 ms

Loss rate: 2.12%



Run 3: Report of TCP Vegas — Data Link

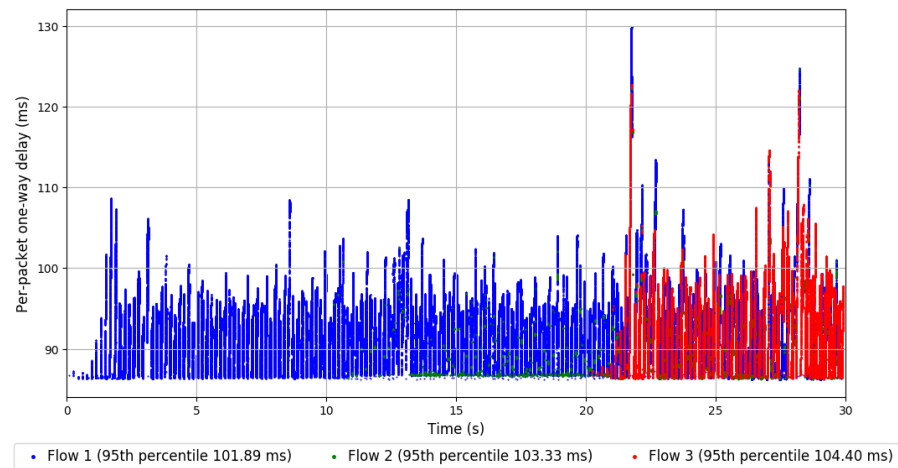
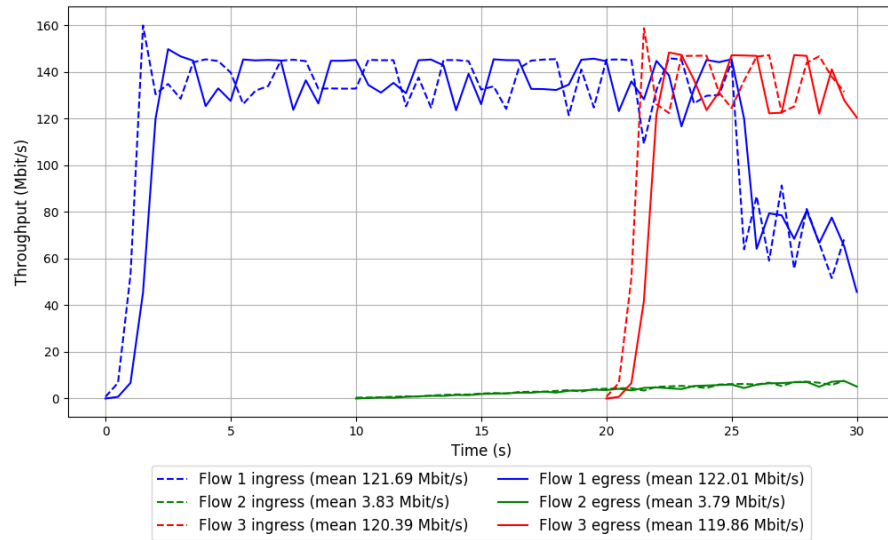


Run 4: Statistics of TCP Vegas

Start at: 2018-07-04 04:49:31  
End at: 2018-07-04 04:50:01  
Local clock offset: 0.171 ms  
Remote clock offset: -0.022 ms

# Below is generated by plot.py at 2018-07-04 09:43:10  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 163.71 Mbit/s  
95th percentile per-packet one-way delay: 102.705 ms  
Loss rate: 0.78%  
-- Flow 1:  
Average throughput: 122.01 Mbit/s  
95th percentile per-packet one-way delay: 101.890 ms  
Loss rate: 0.31%  
-- Flow 2:  
Average throughput: 3.79 Mbit/s  
95th percentile per-packet one-way delay: 103.332 ms  
Loss rate: 1.81%  
-- Flow 3:  
Average throughput: 119.86 Mbit/s  
95th percentile per-packet one-way delay: 104.403 ms  
Loss rate: 2.14%

# Run 4: Report of TCP Vegas — Data Link

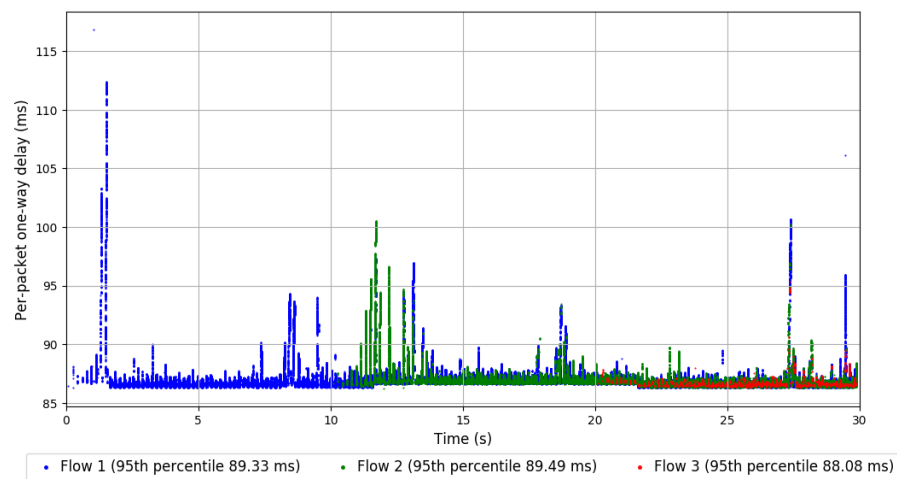
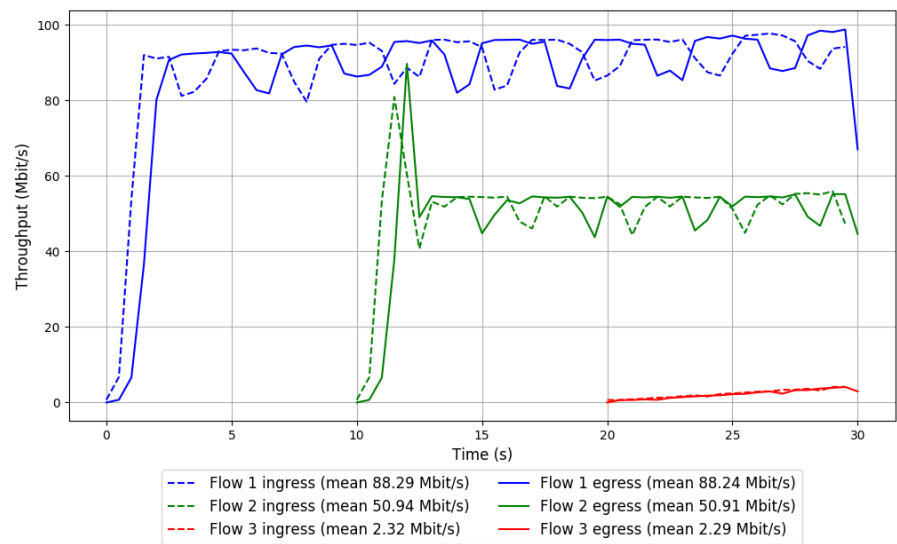


Run 5: Statistics of TCP Vegas

Start at: 2018-07-04 05:14:11  
End at: 2018-07-04 05:14:41  
Local clock offset: 0.194 ms  
Remote clock offset: -0.051 ms

# Below is generated by plot.py at 2018-07-04 09:43:10  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 122.78 Mbit/s  
95th percentile per-packet one-way delay: 89.369 ms  
Loss rate: 0.72%  
-- Flow 1:  
Average throughput: 88.24 Mbit/s  
95th percentile per-packet one-way delay: 89.327 ms  
Loss rate: 0.62%  
-- Flow 2:  
Average throughput: 50.91 Mbit/s  
95th percentile per-packet one-way delay: 89.492 ms  
Loss rate: 0.92%  
-- Flow 3:  
Average throughput: 2.29 Mbit/s  
95th percentile per-packet one-way delay: 88.078 ms  
Loss rate: 3.17%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-07-04 05:39:09

End at: 2018-07-04 05:39:39

Local clock offset: 0.312 ms

Remote clock offset: 0.022 ms

# Below is generated by plot.py at 2018-07-04 09:43:10

# Datalink statistics

-- Total of 3 flows:

Average throughput: 127.29 Mbit/s

95th percentile per-packet one-way delay: 89.827 ms

Loss rate: 0.92%

-- Flow 1:

Average throughput: 86.01 Mbit/s

95th percentile per-packet one-way delay: 89.442 ms

Loss rate: 0.61%

-- Flow 2:

Average throughput: 28.24 Mbit/s

95th percentile per-packet one-way delay: 89.557 ms

Loss rate: 1.01%

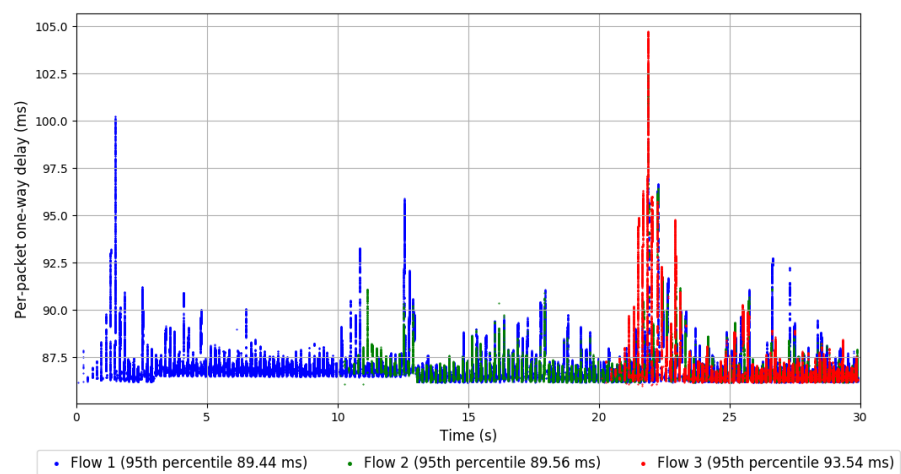
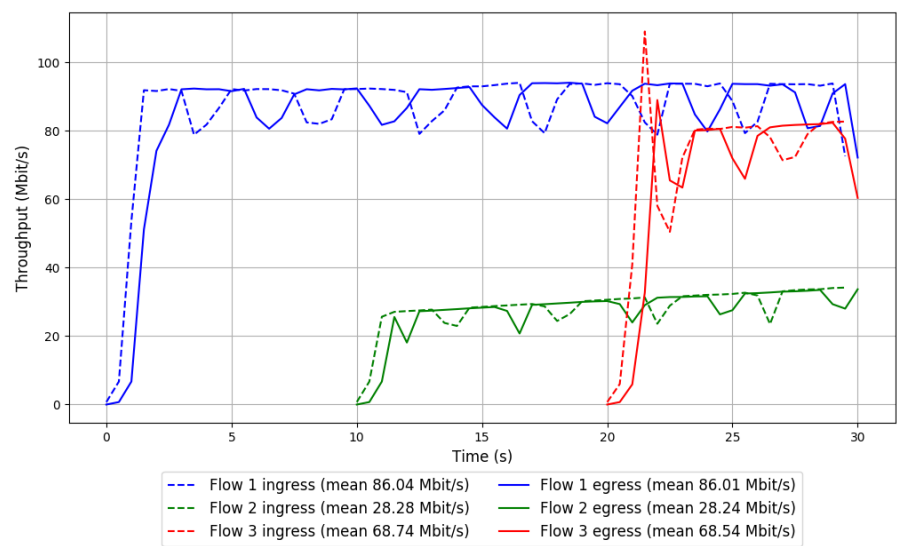
-- Flow 3:

Average throughput: 68.54 Mbit/s

95th percentile per-packet one-way delay: 93.536 ms

Loss rate: 2.02%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-07-04 06:03:58

End at: 2018-07-04 06:04:28

Local clock offset: -0.112 ms

Remote clock offset: 0.071 ms

# Below is generated by plot.py at 2018-07-04 09:43:10

# Datalink statistics

-- Total of 3 flows:

Average throughput: 93.75 Mbit/s

95th percentile per-packet one-way delay: 92.029 ms

Loss rate: 0.88%

-- Flow 1:

Average throughput: 49.80 Mbit/s

95th percentile per-packet one-way delay: 89.800 ms

Loss rate: 0.62%

-- Flow 2:

Average throughput: 47.84 Mbit/s

95th percentile per-packet one-way delay: 94.818 ms

Loss rate: 0.91%

-- Flow 3:

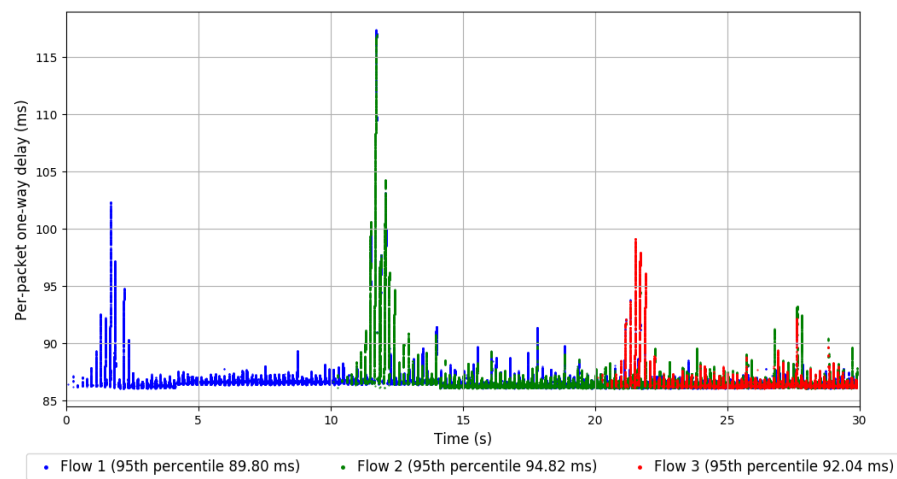
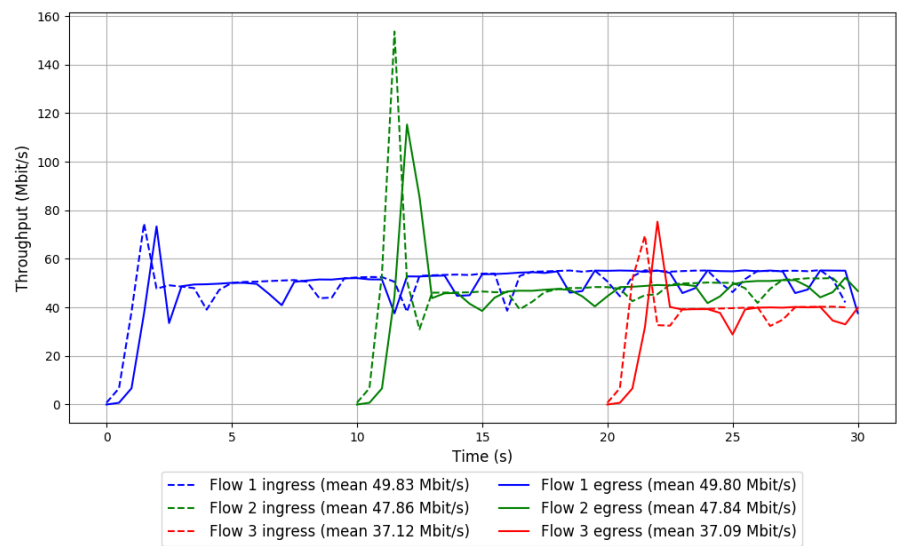
Average throughput: 37.09 Mbit/s

95th percentile per-packet one-way delay: 92.041 ms

Loss rate: 1.82%



Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-07-04 06:28:25

End at: 2018-07-04 06:28:55

Local clock offset: 0.065 ms

Remote clock offset: 0.099 ms

# Below is generated by plot.py at 2018-07-04 09:43:10

# Datalink statistics

-- Total of 3 flows:

Average throughput: 154.65 Mbit/s

95th percentile per-packet one-way delay: 99.519 ms

Loss rate: 0.33%

-- Flow 1:

Average throughput: 127.89 Mbit/s

95th percentile per-packet one-way delay: 99.687 ms

Loss rate: 0.20%

-- Flow 2:

Average throughput: 39.60 Mbit/s

95th percentile per-packet one-way delay: 98.275 ms

Loss rate: 0.88%

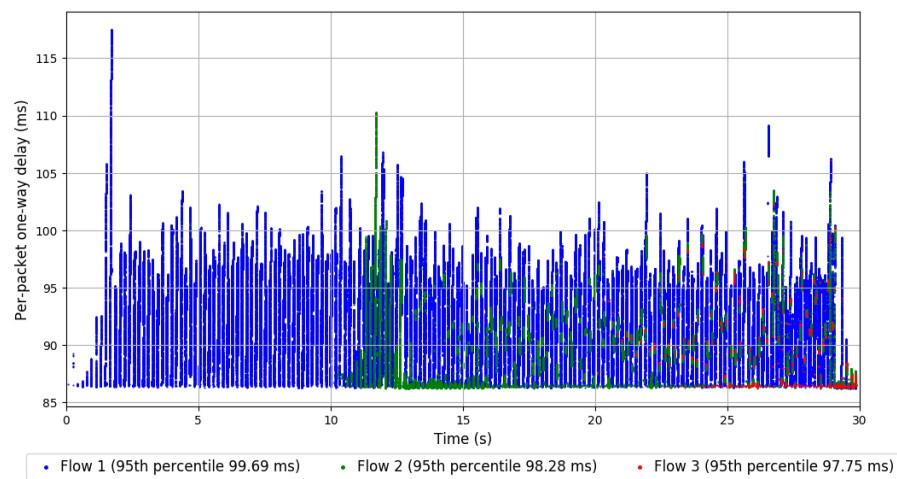
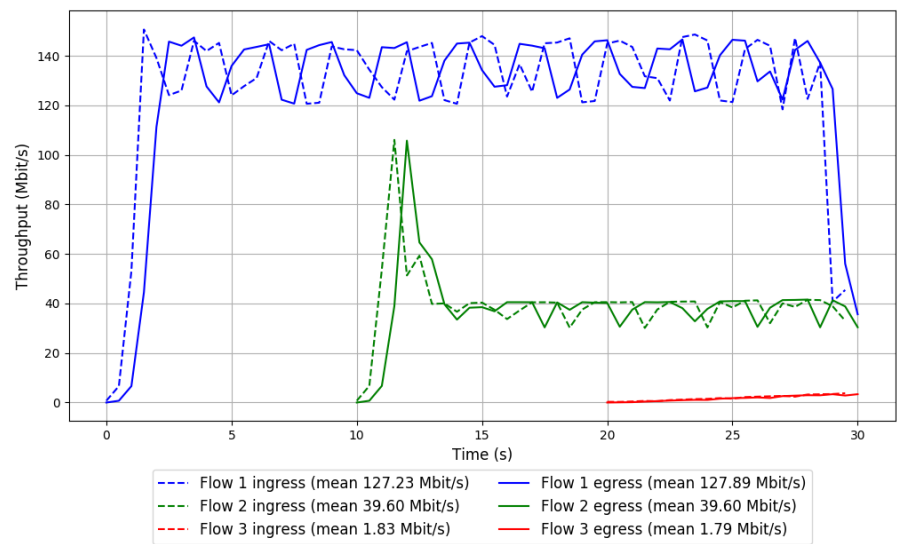
-- Flow 3:

Average throughput: 1.79 Mbit/s

95th percentile per-packet one-way delay: 97.750 ms

Loss rate: 4.21%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-07-04 06:52:47

End at: 2018-07-04 06:53:17

Local clock offset: 0.101 ms

Remote clock offset: 0.121 ms

# Below is generated by plot.py at 2018-07-04 09:43:10

# Datalink statistics

-- Total of 3 flows:

Average throughput: 110.18 Mbit/s

95th percentile per-packet one-way delay: 94.206 ms

Loss rate: 0.91%

-- Flow 1:

Average throughput: 44.14 Mbit/s

95th percentile per-packet one-way delay: 91.909 ms

Loss rate: 0.65%

-- Flow 2:

Average throughput: 79.75 Mbit/s

95th percentile per-packet one-way delay: 93.722 ms

Loss rate: 0.94%

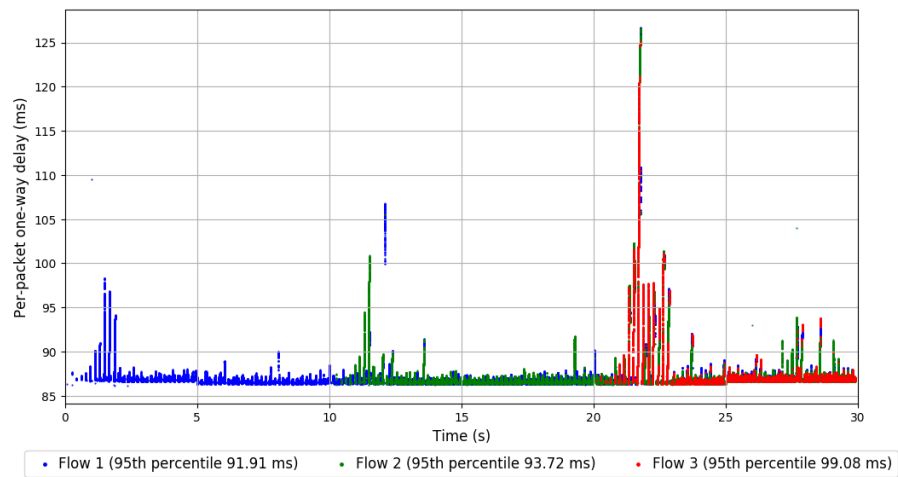
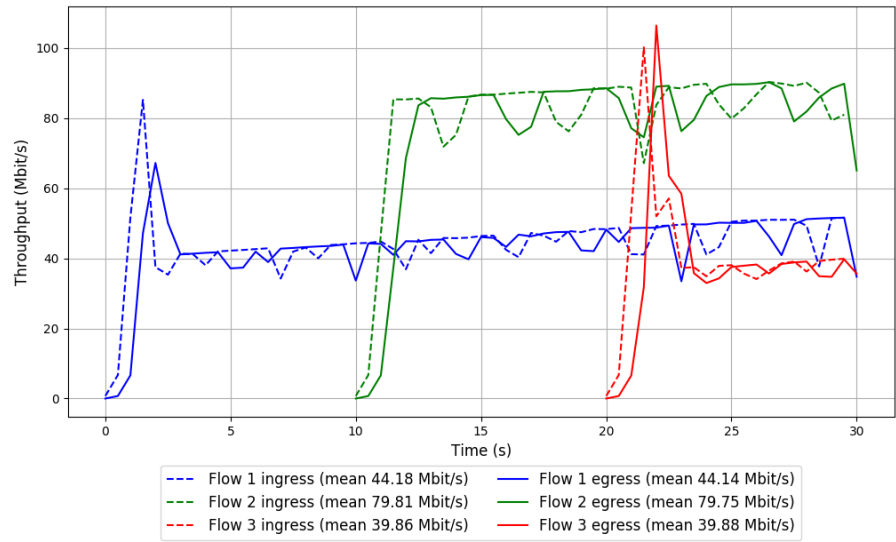
-- Flow 3:

Average throughput: 39.88 Mbit/s

95th percentile per-packet one-way delay: 99.075 ms

Loss rate: 1.68%

# Run 9: Report of TCP Vegas — Data Link

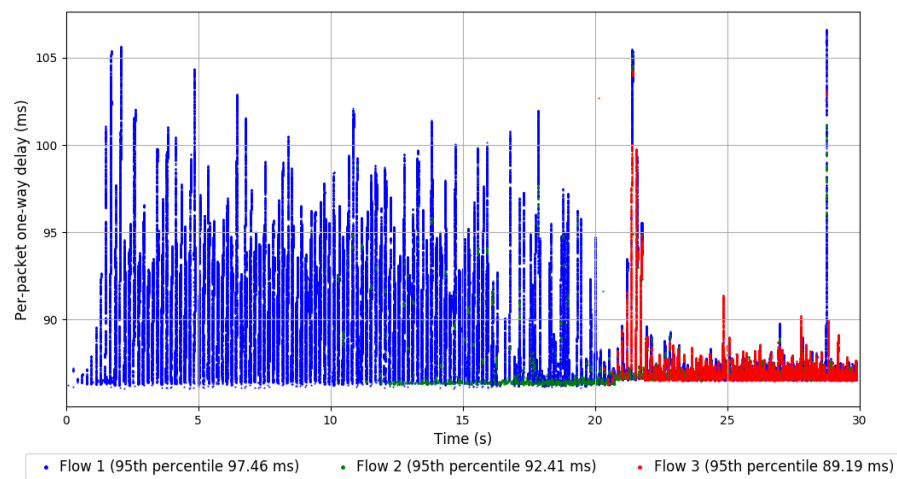
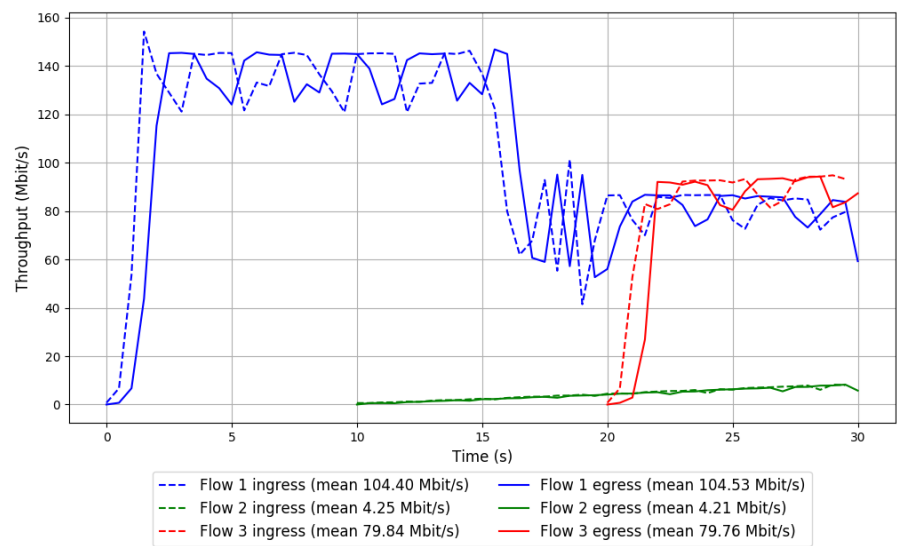


Run 10: Statistics of TCP Vegas

Start at: 2018-07-04 07:17:42  
End at: 2018-07-04 07:18:12  
Local clock offset: 0.09 ms  
Remote clock offset: -0.053 ms

# Below is generated by plot.py at 2018-07-04 09:43:11  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 133.37 Mbit/s  
95th percentile per-packet one-way delay: 96.825 ms  
Loss rate: 0.78%  
-- Flow 1:  
Average throughput: 104.53 Mbit/s  
95th percentile per-packet one-way delay: 97.462 ms  
Loss rate: 0.45%  
-- Flow 2:  
Average throughput: 4.21 Mbit/s  
95th percentile per-packet one-way delay: 92.405 ms  
Loss rate: 1.70%  
-- Flow 3:  
Average throughput: 79.76 Mbit/s  
95th percentile per-packet one-way delay: 89.185 ms  
Loss rate: 2.00%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-07-04 03:25:49

End at: 2018-07-04 03:26:19

Local clock offset: 0.075 ms

Remote clock offset: 0.071 ms

# Below is generated by plot.py at 2018-07-04 09:44:12

# Datalink statistics

-- Total of 3 flows:

Average throughput: 234.37 Mbit/s

95th percentile per-packet one-way delay: 224.519 ms

Loss rate: 1.91%

-- Flow 1:

Average throughput: 166.55 Mbit/s

95th percentile per-packet one-way delay: 193.392 ms

Loss rate: 0.94%

-- Flow 2:

Average throughput: 71.58 Mbit/s

95th percentile per-packet one-way delay: 250.419 ms

Loss rate: 2.53%

-- Flow 3:

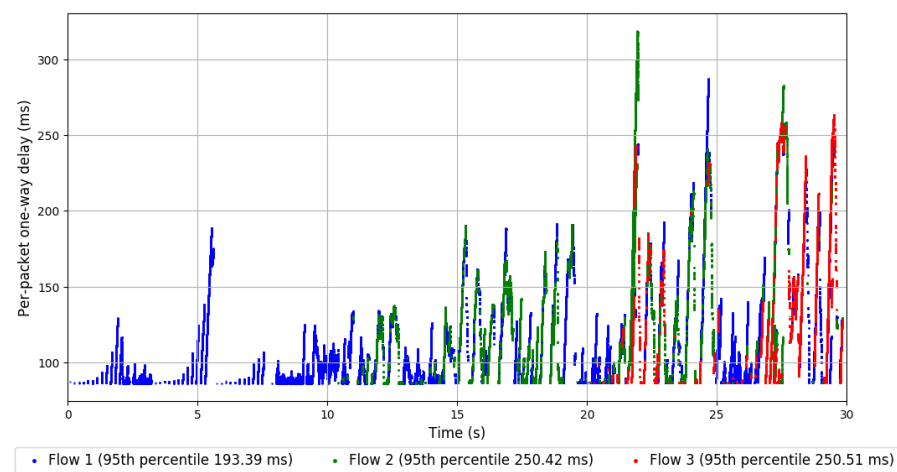
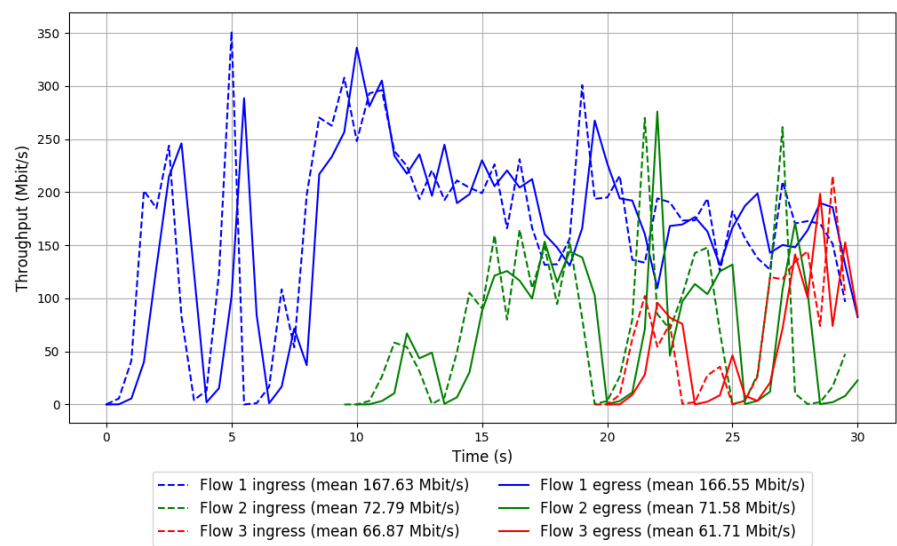
Average throughput: 61.71 Mbit/s

95th percentile per-packet one-way delay: 250.513 ms

Loss rate: 8.00%



Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-07-04 03:50:55

End at: 2018-07-04 03:51:25

Local clock offset: 0.039 ms

Remote clock offset: 0.144 ms

# Below is generated by plot.py at 2018-07-04 09:44:54

# Datalink statistics

-- Total of 3 flows:

Average throughput: 230.45 Mbit/s

95th percentile per-packet one-way delay: 183.373 ms

Loss rate: 0.14%

-- Flow 1:

Average throughput: 153.52 Mbit/s

95th percentile per-packet one-way delay: 177.013 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 101.67 Mbit/s

95th percentile per-packet one-way delay: 212.727 ms

Loss rate: 0.01%

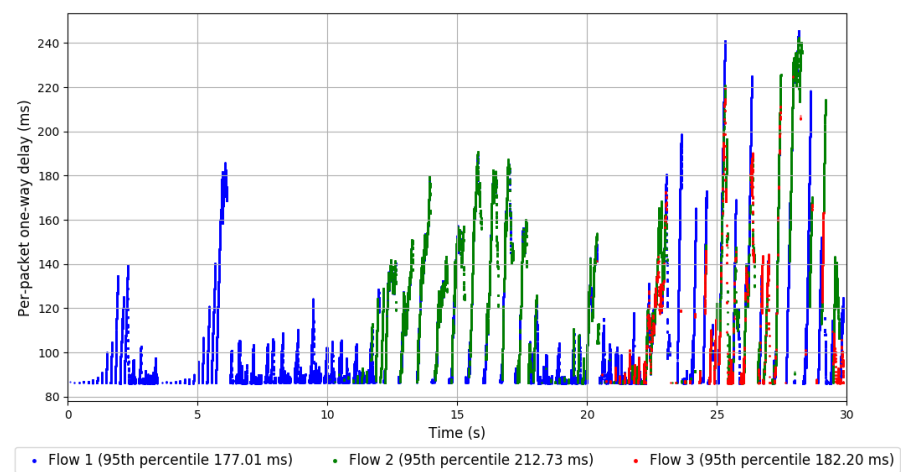
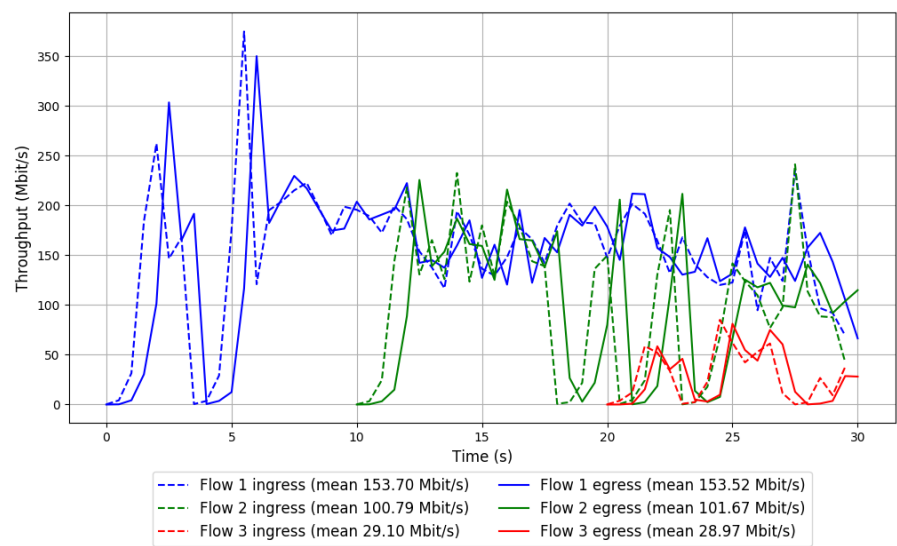
-- Flow 3:

Average throughput: 28.97 Mbit/s

95th percentile per-packet one-way delay: 182.199 ms

Loss rate: 2.55%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-07-04 04:15:45

End at: 2018-07-04 04:16:15

Local clock offset: 0.131 ms

Remote clock offset: 0.078 ms

# Below is generated by plot.py at 2018-07-04 09:45:10

# Datalink statistics

-- Total of 3 flows:

Average throughput: 220.58 Mbit/s

95th percentile per-packet one-way delay: 219.091 ms

Loss rate: 1.48%

-- Flow 1:

Average throughput: 121.76 Mbit/s

95th percentile per-packet one-way delay: 173.431 ms

Loss rate: 0.48%

-- Flow 2:

Average throughput: 122.15 Mbit/s

95th percentile per-packet one-way delay: 261.021 ms

Loss rate: 1.69%

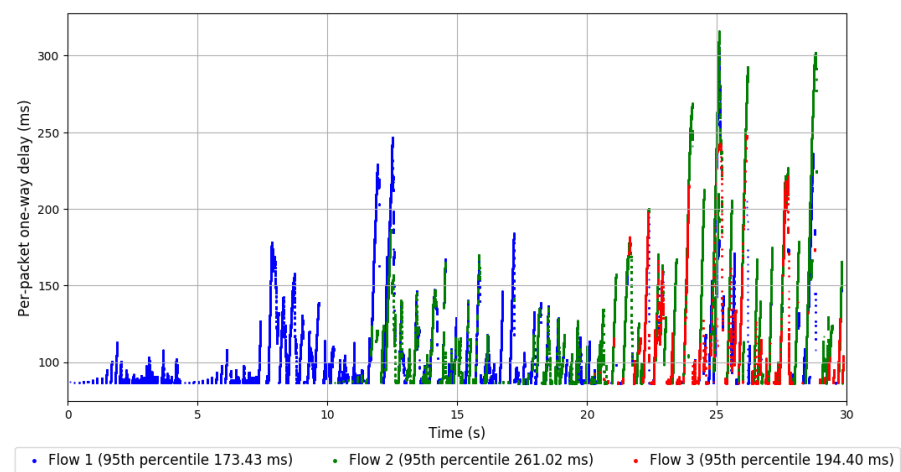
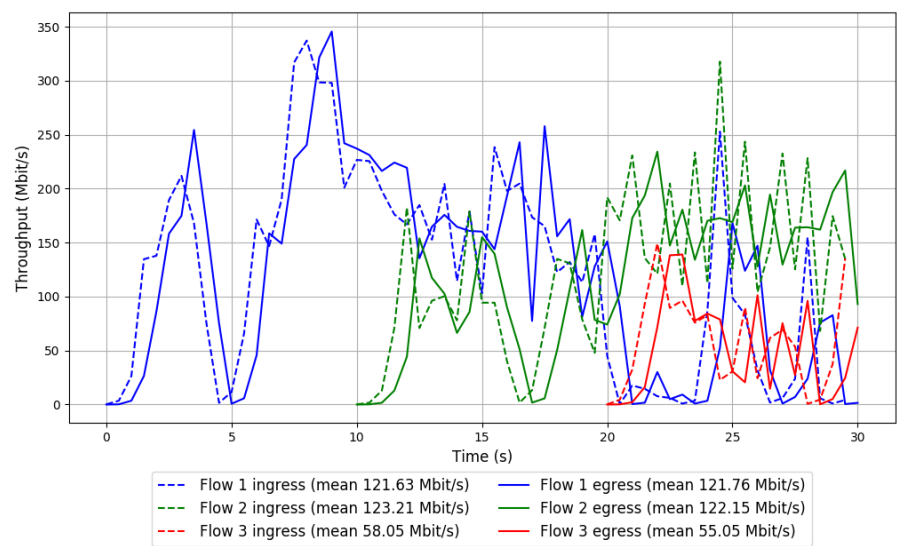
-- Flow 3:

Average throughput: 55.05 Mbit/s

95th percentile per-packet one-way delay: 194.403 ms

Loss rate: 6.84%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-07-04 04:40:29

End at: 2018-07-04 04:40:59

Local clock offset: 0.112 ms

Remote clock offset: 0.059 ms

# Below is generated by plot.py at 2018-07-04 09:46:58

# Datalink statistics

-- Total of 3 flows:

Average throughput: 257.10 Mbit/s

95th percentile per-packet one-way delay: 227.090 ms

Loss rate: 1.25%

-- Flow 1:

Average throughput: 131.92 Mbit/s

95th percentile per-packet one-way delay: 177.097 ms

Loss rate: 0.57%

-- Flow 2:

Average throughput: 152.31 Mbit/s

95th percentile per-packet one-way delay: 272.290 ms

Loss rate: 2.38%

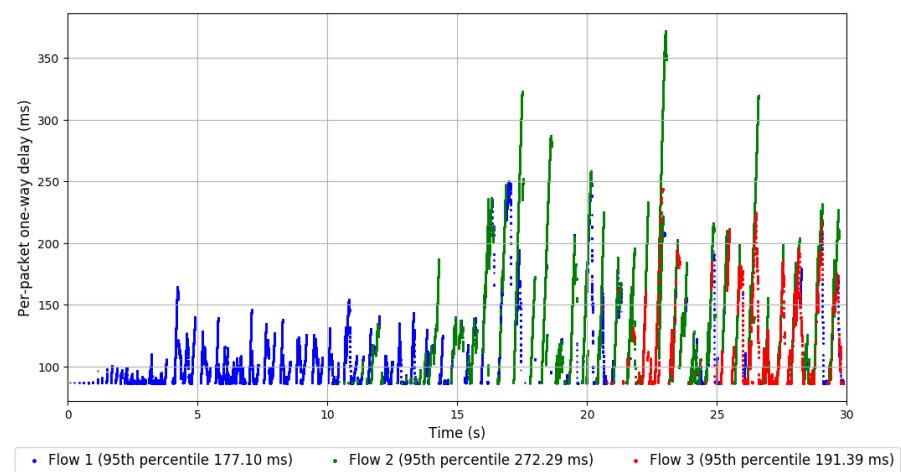
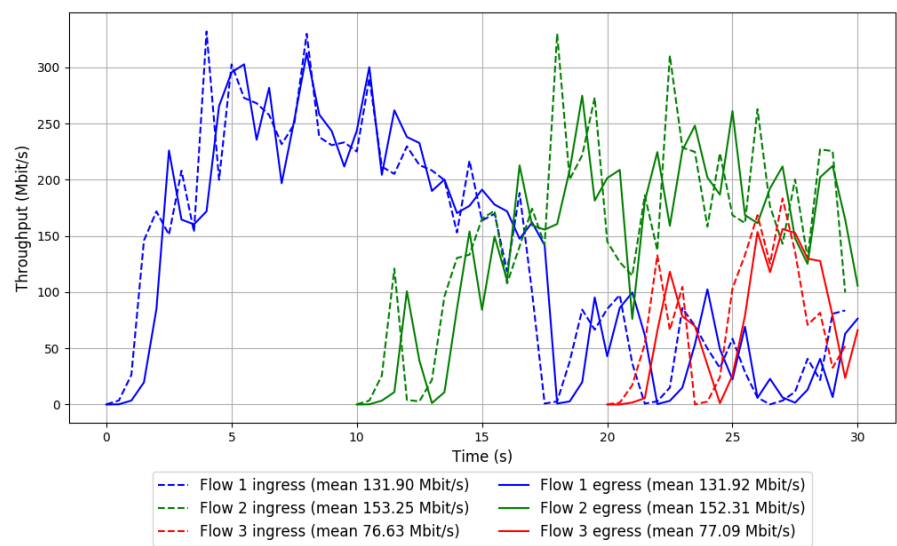
-- Flow 3:

Average throughput: 77.09 Mbit/s

95th percentile per-packet one-way delay: 191.388 ms

Loss rate: 0.26%

Run 4: Report of Verus — Data Link



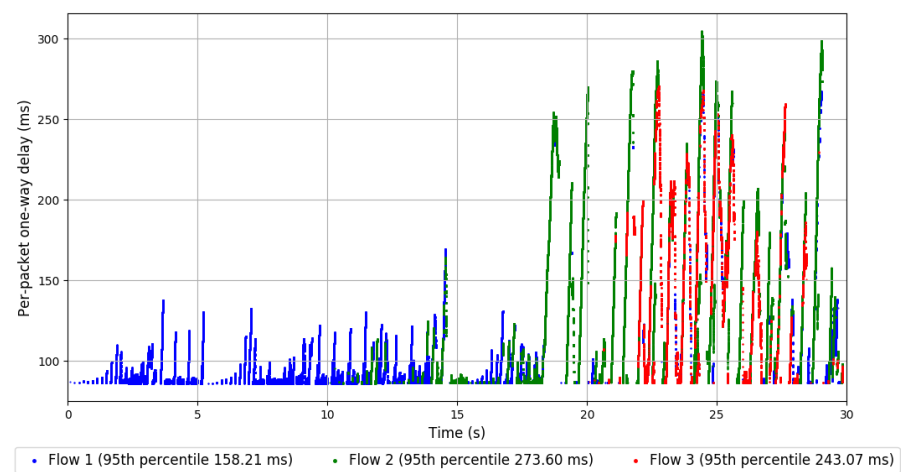
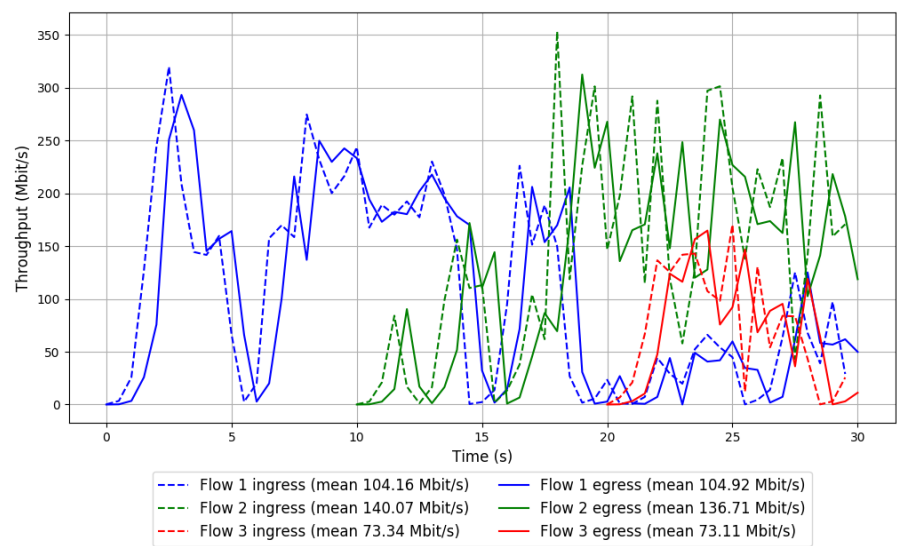
Run 5: Statistics of Verus

Start at: 2018-07-04 05:05:20  
End at: 2018-07-04 05:05:50  
Local clock offset: -0.227 ms  
Remote clock offset: -0.038 ms

# Below is generated by plot.py at 2018-07-04 09:46:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 219.11 Mbit/s  
95th percentile per-packet one-way delay: 252.086 ms  
Loss rate: 1.72%  
-- Flow 1:  
Average throughput: 104.92 Mbit/s  
95th percentile per-packet one-way delay: 158.212 ms  
Loss rate: 0.41%  
-- Flow 2:  
Average throughput: 136.71 Mbit/s  
95th percentile per-packet one-way delay: 273.599 ms  
Loss rate: 3.08%  
-- Flow 3:  
Average throughput: 73.11 Mbit/s  
95th percentile per-packet one-way delay: 243.068 ms  
Loss rate: 2.07%



Run 5: Report of Verus — Data Link

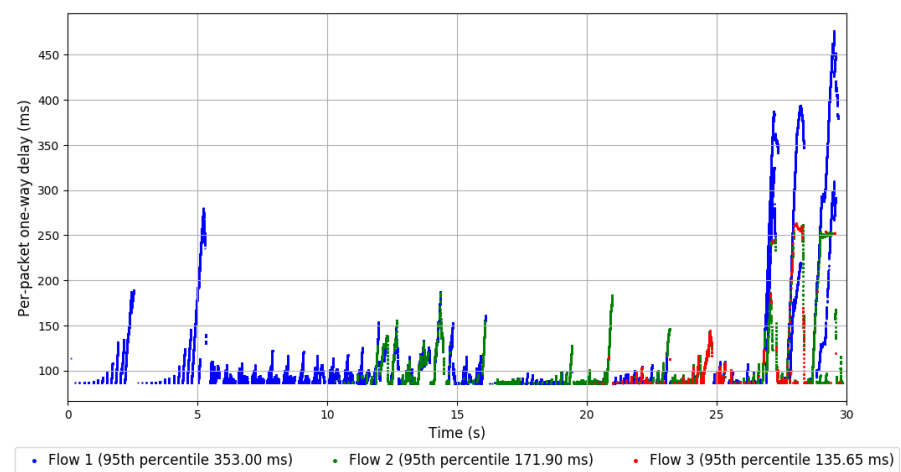
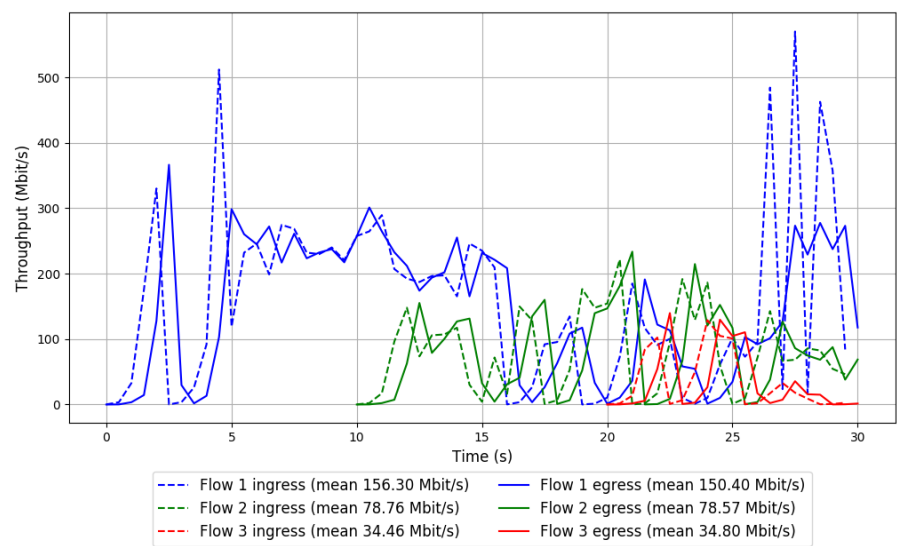


Run 6: Statistics of Verus

Start at: 2018-07-04 05:30:11  
End at: 2018-07-04 05:30:41  
Local clock offset: -0.115 ms  
Remote clock offset: -0.04 ms

# Below is generated by plot.py at 2018-07-04 09:46:59  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 212.94 Mbit/s  
95th percentile per-packet one-way delay: 305.065 ms  
Loss rate: 3.93%  
-- Flow 1:  
Average throughput: 150.40 Mbit/s  
95th percentile per-packet one-way delay: 353.005 ms  
Loss rate: 5.09%  
-- Flow 2:  
Average throughput: 78.57 Mbit/s  
95th percentile per-packet one-way delay: 171.899 ms  
Loss rate: 1.16%  
-- Flow 3:  
Average throughput: 34.80 Mbit/s  
95th percentile per-packet one-way delay: 135.646 ms  
Loss rate: 0.79%

Run 6: Report of Verus — Data Link

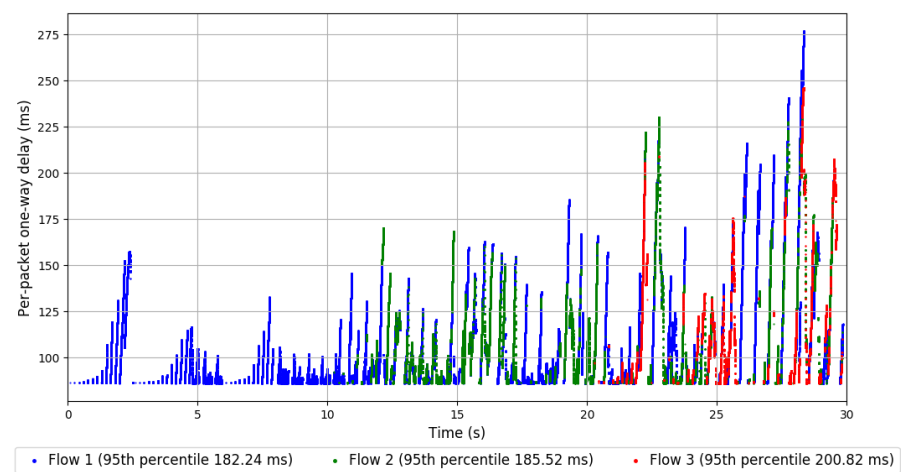
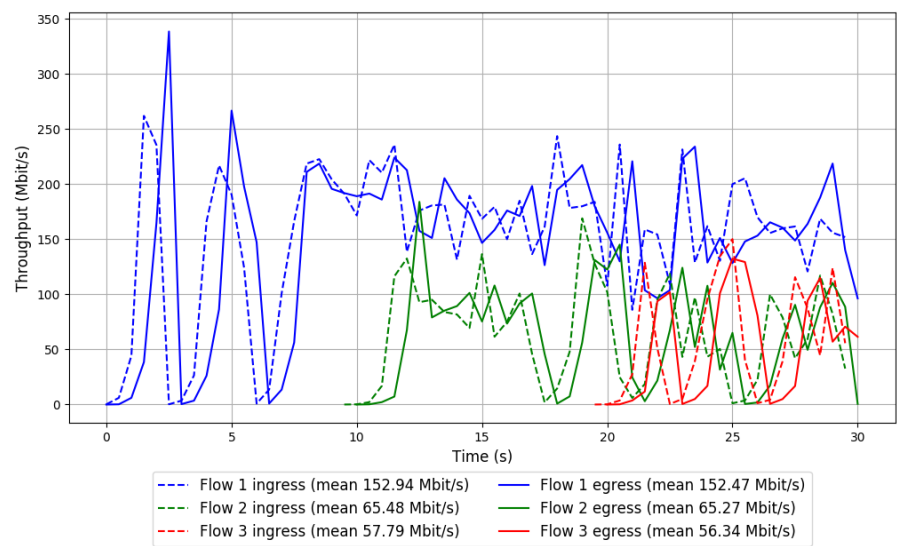


Run 7: Statistics of Verus

Start at: 2018-07-04 05:55:02  
End at: 2018-07-04 05:55:32  
Local clock offset: -0.053 ms  
Remote clock offset: 0.039 ms

# Below is generated by plot.py at 2018-07-04 09:46:59  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 214.27 Mbit/s  
95th percentile per-packet one-way delay: 186.492 ms  
Loss rate: 1.26%  
-- Flow 1:  
Average throughput: 152.47 Mbit/s  
95th percentile per-packet one-way delay: 182.238 ms  
Loss rate: 0.87%  
-- Flow 2:  
Average throughput: 65.27 Mbit/s  
95th percentile per-packet one-way delay: 185.517 ms  
Loss rate: 1.23%  
-- Flow 3:  
Average throughput: 56.34 Mbit/s  
95th percentile per-packet one-way delay: 200.822 ms  
Loss rate: 4.46%

Run 7: Report of Verus — Data Link

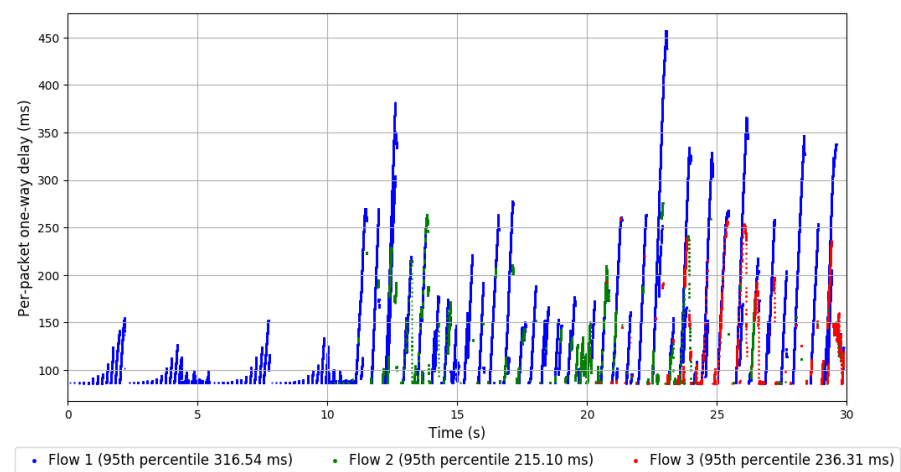
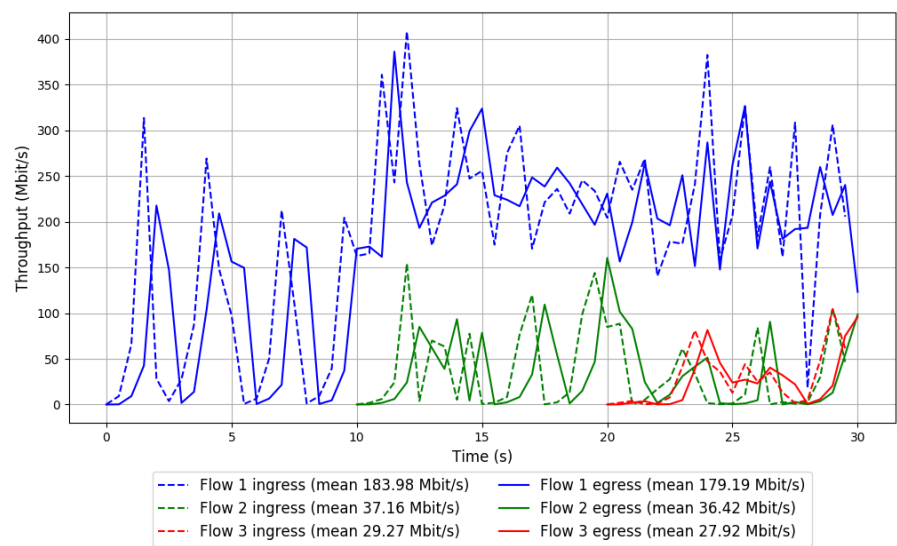


Run 8: Statistics of Verus

Start at: 2018-07-04 06:19:31  
End at: 2018-07-04 06:20:01  
Local clock offset: -0.112 ms  
Remote clock offset: 0.145 ms

# Below is generated by plot.py at 2018-07-04 09:47:27  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 212.50 Mbit/s  
95th percentile per-packet one-way delay: 304.442 ms  
Loss rate: 3.08%  
-- Flow 1:  
Average throughput: 179.19 Mbit/s  
95th percentile per-packet one-way delay: 316.540 ms  
Loss rate: 3.07%  
-- Flow 2:  
Average throughput: 36.42 Mbit/s  
95th percentile per-packet one-way delay: 215.097 ms  
Loss rate: 2.43%  
-- Flow 3:  
Average throughput: 27.92 Mbit/s  
95th percentile per-packet one-way delay: 236.314 ms  
Loss rate: 4.93%

Run 8: Report of Verus — Data Link



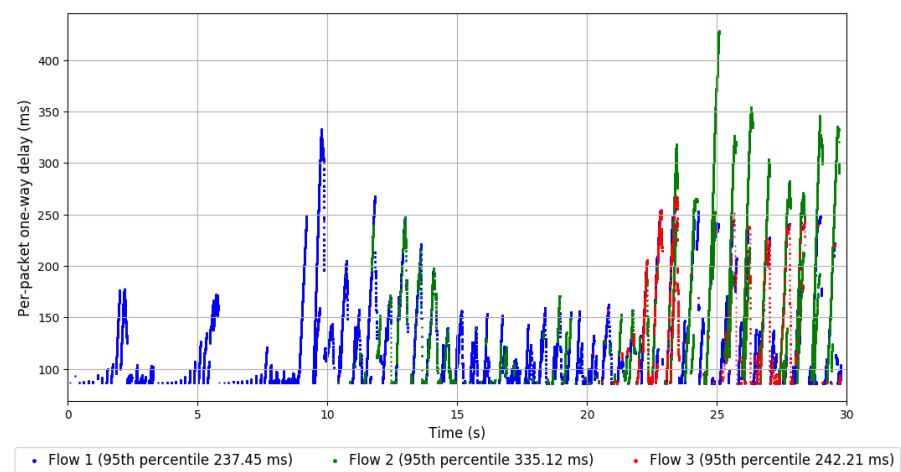
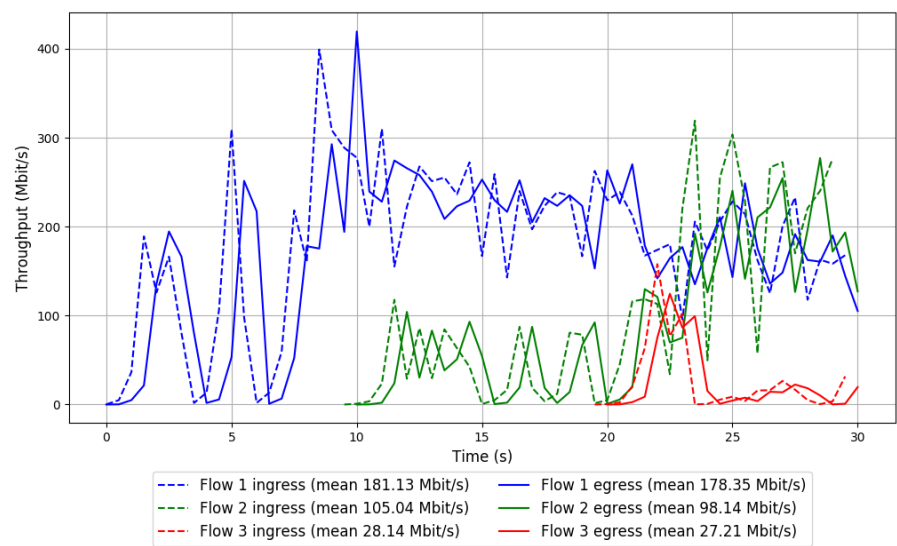
Run 9: Statistics of Verus

Start at: 2018-07-04 06:43:54  
End at: 2018-07-04 06:44:24  
Local clock offset: -0.09 ms  
Remote clock offset: 0.126 ms

# Below is generated by plot.py at 2018-07-04 09:49:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 252.29 Mbit/s  
95th percentile per-packet one-way delay: 284.911 ms  
Loss rate: 3.16%  
-- Flow 1:  
Average throughput: 178.35 Mbit/s  
95th percentile per-packet one-way delay: 237.454 ms  
Loss rate: 2.07%  
-- Flow 2:  
Average throughput: 98.14 Mbit/s  
95th percentile per-packet one-way delay: 335.115 ms  
Loss rate: 5.75%  
-- Flow 3:  
Average throughput: 27.21 Mbit/s  
95th percentile per-packet one-way delay: 242.208 ms  
Loss rate: 5.30%



Run 9: Report of Verus — Data Link

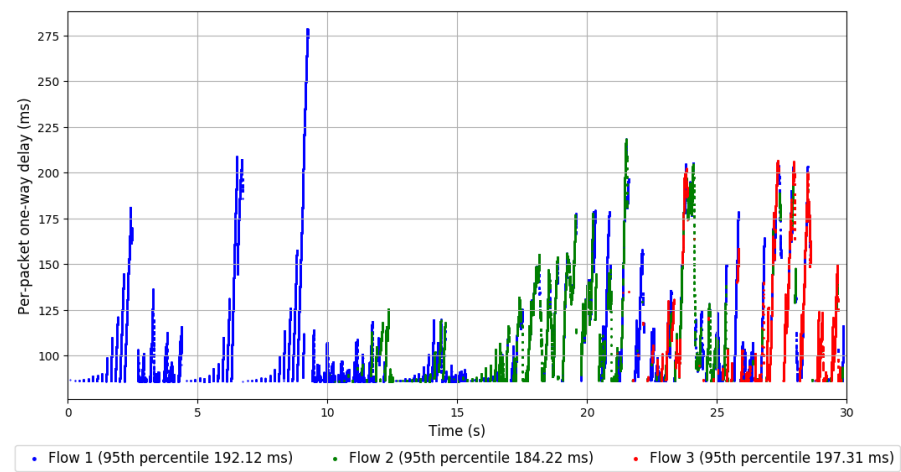
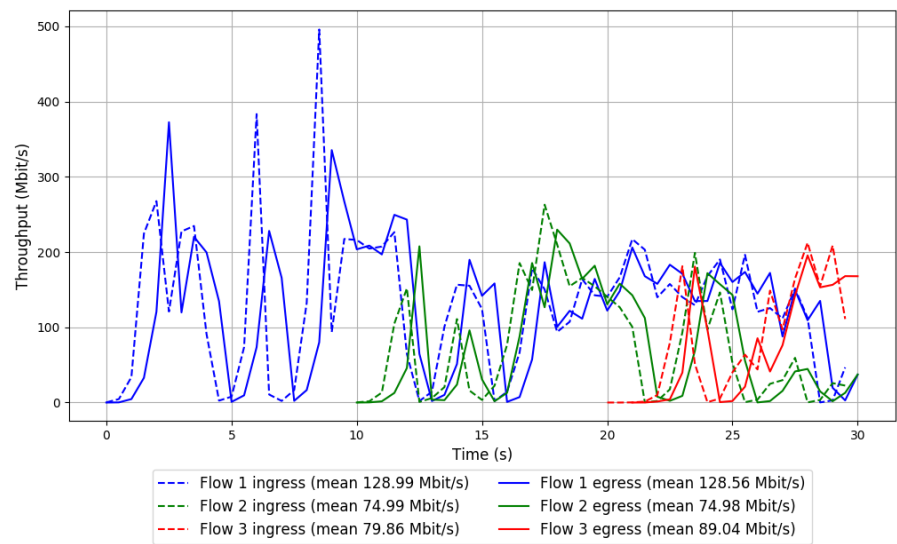


Run 10: Statistics of Verus

Start at: 2018-07-04 07:08:47  
End at: 2018-07-04 07:09:17  
Local clock offset: -0.176 ms  
Remote clock offset: -0.018 ms

# Below is generated by plot.py at 2018-07-04 09:49:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 203.94 Mbit/s  
95th percentile per-packet one-way delay: 190.960 ms  
Loss rate: 0.49%  
-- Flow 1:  
Average throughput: 128.56 Mbit/s  
95th percentile per-packet one-way delay: 192.116 ms  
Loss rate: 0.24%  
-- Flow 2:  
Average throughput: 74.98 Mbit/s  
95th percentile per-packet one-way delay: 184.224 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 89.04 Mbit/s  
95th percentile per-packet one-way delay: 197.307 ms  
Loss rate: 2.62%

Run 10: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2018-07-04 03:40:02

End at: 2018-07-04 03:40:32

Local clock offset: 0.052 ms

Remote clock offset: 0.046 ms

# Below is generated by plot.py at 2018-07-04 09:54:45

# Datalink statistics

-- Total of 3 flows:

Average throughput: 459.47 Mbit/s

95th percentile per-packet one-way delay: 90.051 ms

Loss rate: 0.93%

-- Flow 1:

Average throughput: 277.48 Mbit/s

95th percentile per-packet one-way delay: 90.919 ms

Loss rate: 0.57%

-- Flow 2:

Average throughput: 200.20 Mbit/s

95th percentile per-packet one-way delay: 88.627 ms

Loss rate: 1.13%

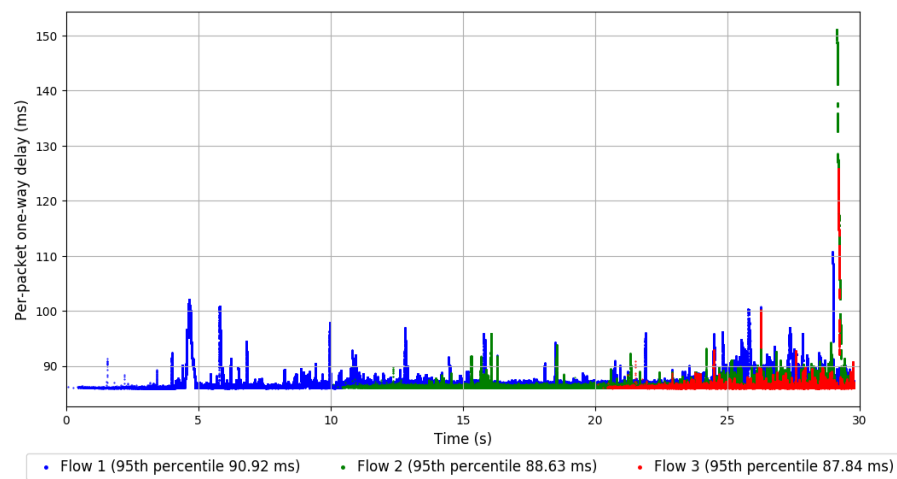
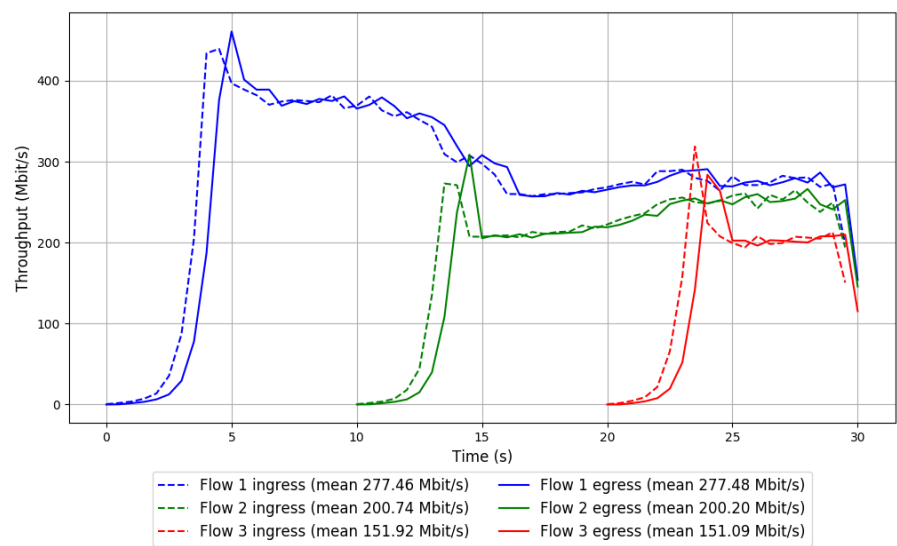
-- Flow 3:

Average throughput: 151.09 Mbit/s

95th percentile per-packet one-way delay: 87.837 ms

Loss rate: 2.33%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

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

End at: 2018-07-04 04:05:21

Local clock offset: -0.04 ms

Remote clock offset: 0.051 ms

# Below is generated by plot.py at 2018-07-04 09:54:45

# Datalink statistics

-- Total of 3 flows:

Average throughput: 412.17 Mbit/s

95th percentile per-packet one-way delay: 88.786 ms

Loss rate: 0.85%

-- Flow 1:

Average throughput: 248.77 Mbit/s

95th percentile per-packet one-way delay: 93.672 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 206.93 Mbit/s

95th percentile per-packet one-way delay: 87.034 ms

Loss rate: 1.14%

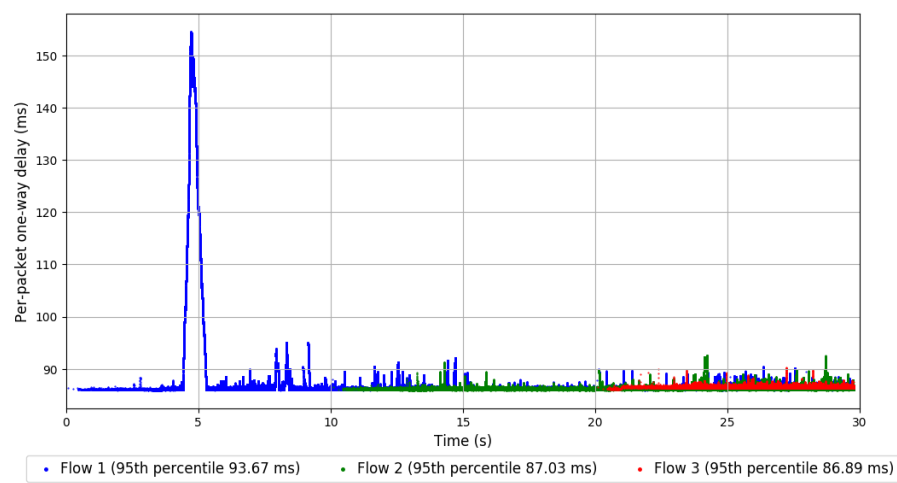
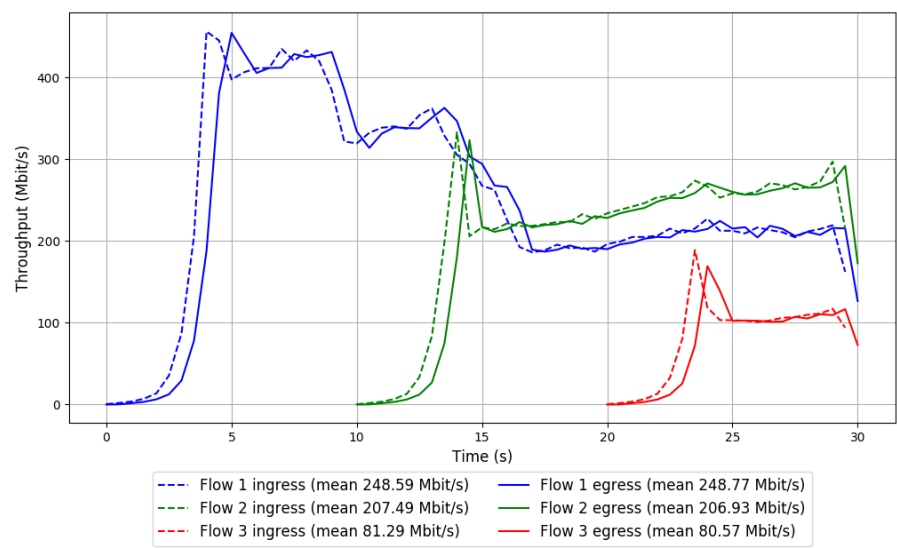
-- Flow 3:

Average throughput: 80.57 Mbit/s

95th percentile per-packet one-way delay: 86.889 ms

Loss rate: 2.62%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-07-04 04:29:50

End at: 2018-07-04 04:30:20

Local clock offset: -0.14 ms

Remote clock offset: 0.089 ms

# Below is generated by plot.py at 2018-07-04 09:56:12

# Datalink statistics

-- Total of 3 flows:

Average throughput: 453.85 Mbit/s

95th percentile per-packet one-way delay: 90.924 ms

Loss rate: 1.00%

-- Flow 1:

Average throughput: 277.19 Mbit/s

95th percentile per-packet one-way delay: 95.828 ms

Loss rate: 0.52%

-- Flow 2:

Average throughput: 199.31 Mbit/s

95th percentile per-packet one-way delay: 89.374 ms

Loss rate: 1.49%

-- Flow 3:

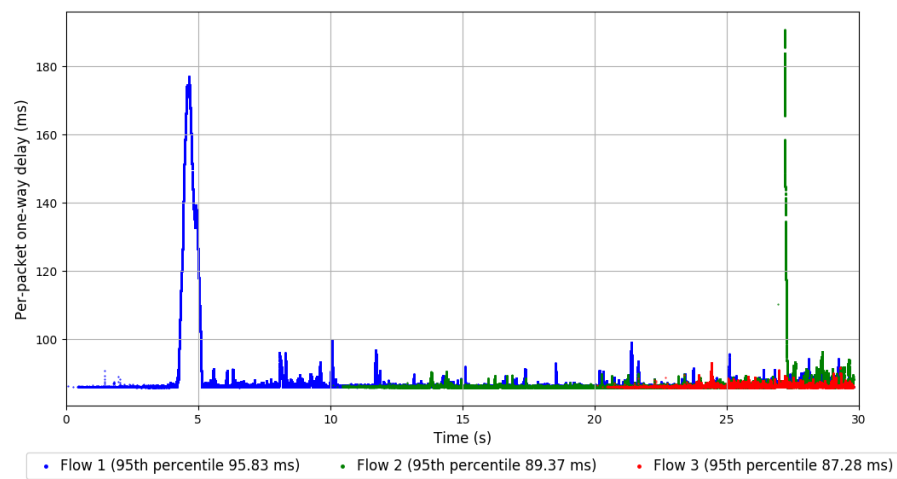
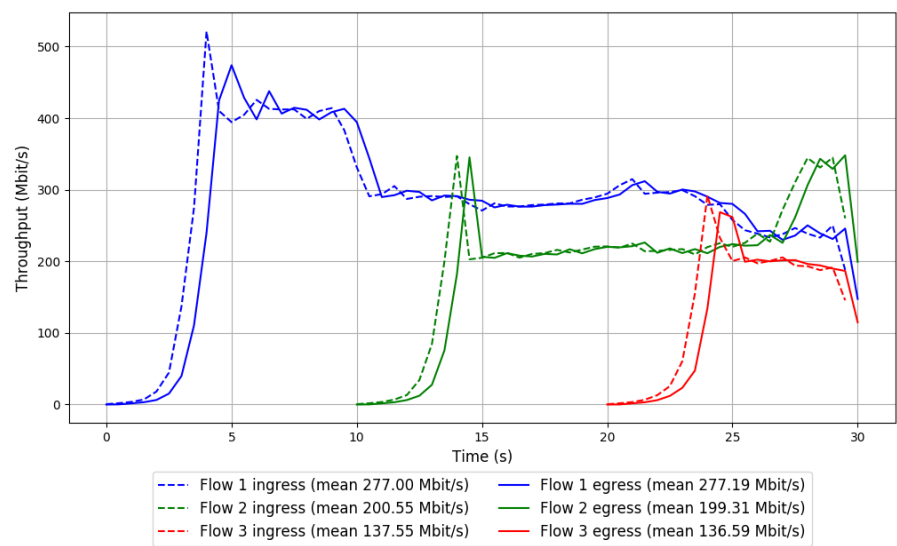
Average throughput: 136.59 Mbit/s

95th percentile per-packet one-way delay: 87.283 ms

Loss rate: 2.46%



Run 3: Report of PCC-Vivace — Data Link

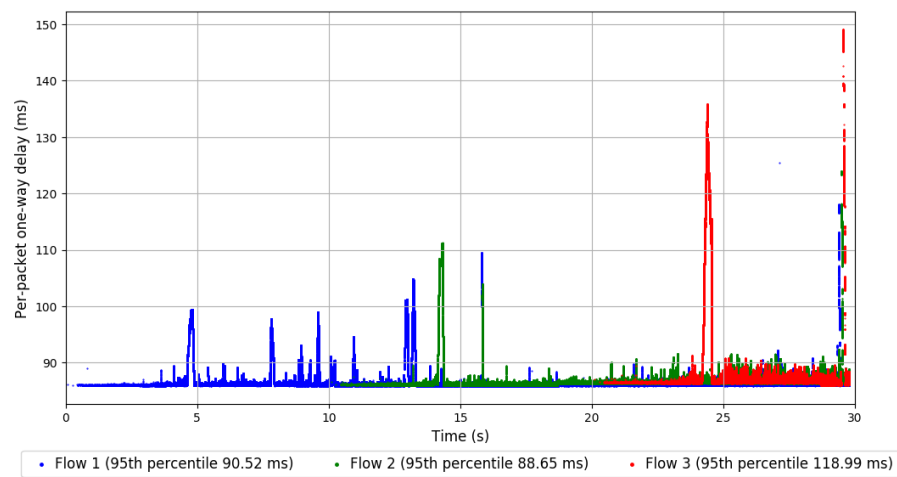
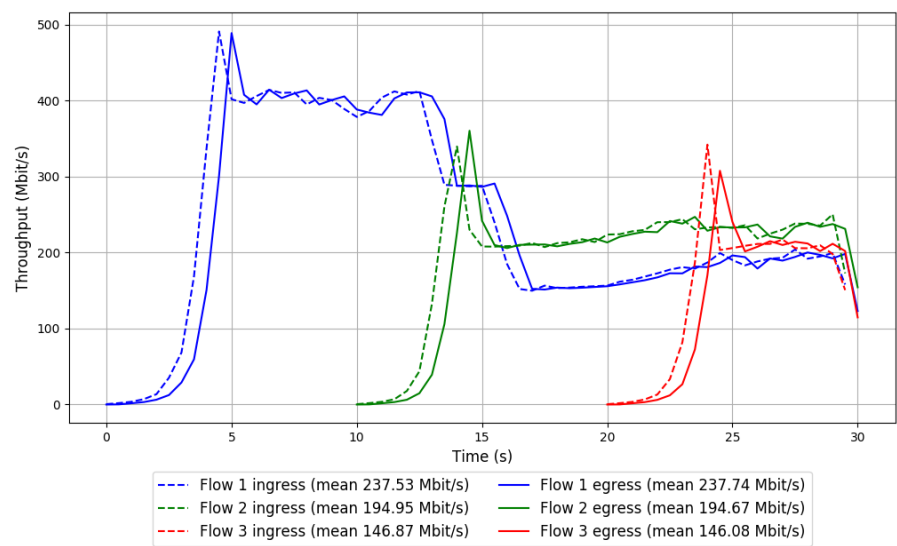


Run 4: Statistics of PCC-Vivace

Start at: 2018-07-04 04:54:43  
End at: 2018-07-04 04:55:13  
Local clock offset: -0.072 ms  
Remote clock offset: -0.025 ms

# Below is generated by plot.py at 2018-07-04 09:56:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 414.48 Mbit/s  
95th percentile per-packet one-way delay: 90.640 ms  
Loss rate: 0.87%  
-- Flow 1:  
Average throughput: 237.74 Mbit/s  
95th percentile per-packet one-way delay: 90.522 ms  
Loss rate: 0.49%  
-- Flow 2:  
Average throughput: 194.67 Mbit/s  
95th percentile per-packet one-way delay: 88.650 ms  
Loss rate: 1.02%  
-- Flow 3:  
Average throughput: 146.08 Mbit/s  
95th percentile per-packet one-way delay: 118.987 ms  
Loss rate: 2.29%

Run 4: Report of PCC-Vivace — Data Link

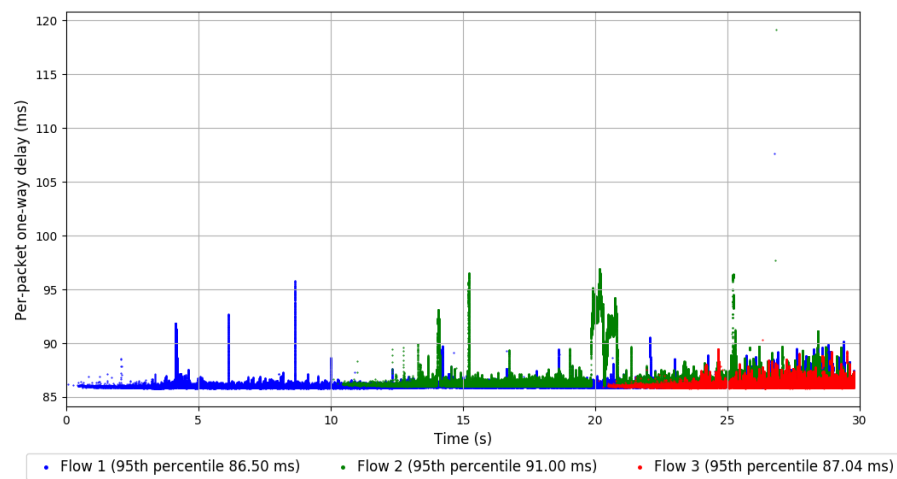
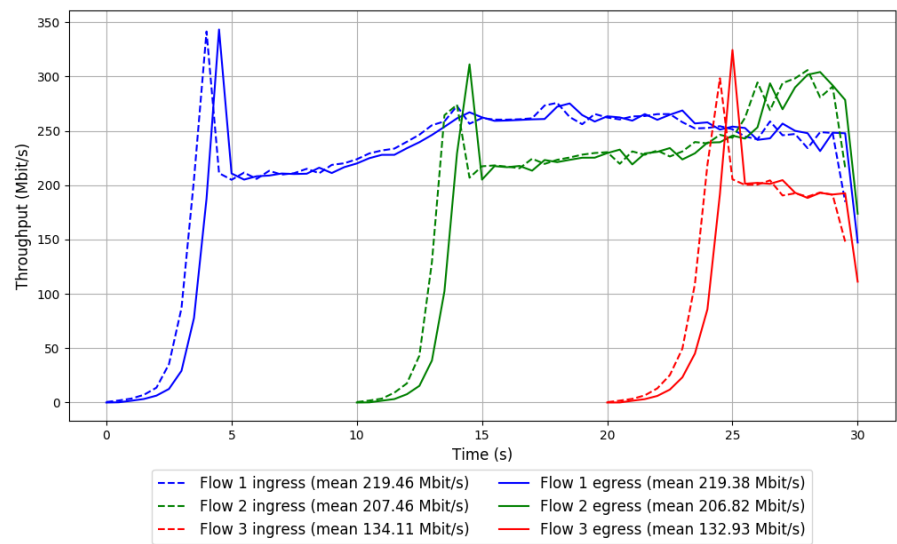


Run 5: Statistics of PCC-Vivace

Start at: 2018-07-04 05:19:22  
End at: 2018-07-04 05:19:52  
Local clock offset: -0.041 ms  
Remote clock offset: -0.047 ms

# Below is generated by plot.py at 2018-07-04 09:56:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 399.79 Mbit/s  
95th percentile per-packet one-way delay: 87.288 ms  
Loss rate: 1.03%  
-- Flow 1:  
Average throughput: 219.38 Mbit/s  
95th percentile per-packet one-way delay: 86.500 ms  
Loss rate: 0.62%  
-- Flow 2:  
Average throughput: 206.82 Mbit/s  
95th percentile per-packet one-way delay: 90.999 ms  
Loss rate: 1.18%  
-- Flow 3:  
Average throughput: 132.93 Mbit/s  
95th percentile per-packet one-way delay: 87.037 ms  
Loss rate: 2.63%

Run 5: Report of PCC-Vivace — Data Link

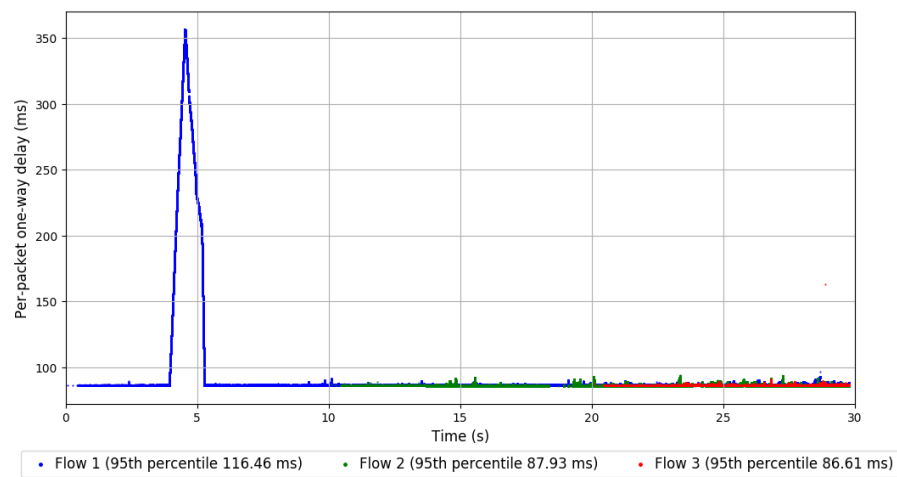
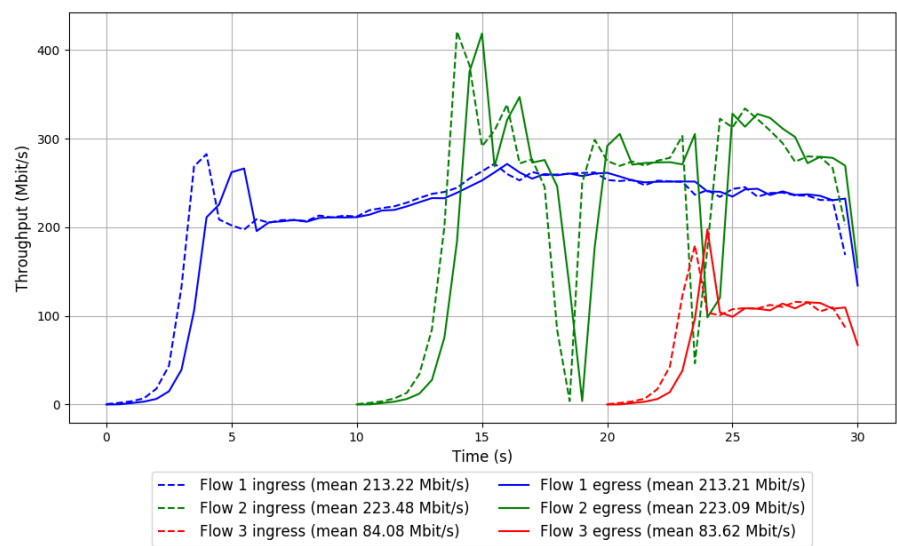


Run 6: Statistics of PCC-Vivace

Start at: 2018-07-04 05:44:18  
End at: 2018-07-04 05:44:48  
Local clock offset: 0.175 ms  
Remote clock offset: -0.028 ms

# Below is generated by plot.py at 2018-07-04 09:56:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 388.40 Mbit/s  
95th percentile per-packet one-way delay: 88.240 ms  
Loss rate: 0.89%  
-- Flow 1:  
Average throughput: 213.21 Mbit/s  
95th percentile per-packet one-way delay: 116.459 ms  
Loss rate: 0.59%  
-- Flow 2:  
Average throughput: 223.09 Mbit/s  
95th percentile per-packet one-way delay: 87.934 ms  
Loss rate: 1.05%  
-- Flow 3:  
Average throughput: 83.62 Mbit/s  
95th percentile per-packet one-way delay: 86.607 ms  
Loss rate: 2.32%

Run 6: Report of PCC-Vivace — Data Link



Run 7: Statistics of PCC-Vivace

Start at: 2018-07-04 06:09:05

End at: 2018-07-04 06:09:35

Local clock offset: -0.23 ms

Remote clock offset: 0.104 ms

# Below is generated by plot.py at 2018-07-04 09:56:21

# Datalink statistics

-- Total of 3 flows:

Average throughput: 349.96 Mbit/s

95th percentile per-packet one-way delay: 96.364 ms

Loss rate: 0.95%

-- Flow 1:

Average throughput: 228.57 Mbit/s

95th percentile per-packet one-way delay: 98.817 ms

Loss rate: 0.55%

-- Flow 2:

Average throughput: 112.57 Mbit/s

95th percentile per-packet one-way delay: 86.528 ms

Loss rate: 1.26%

-- Flow 3:

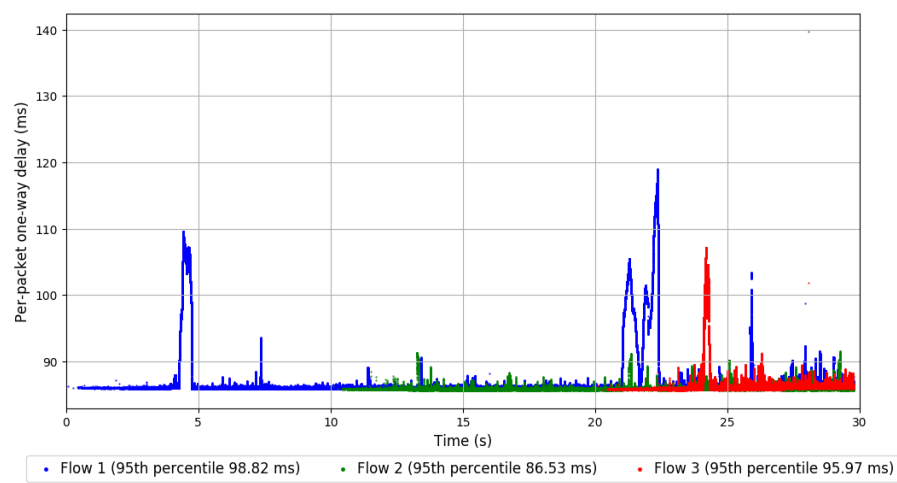
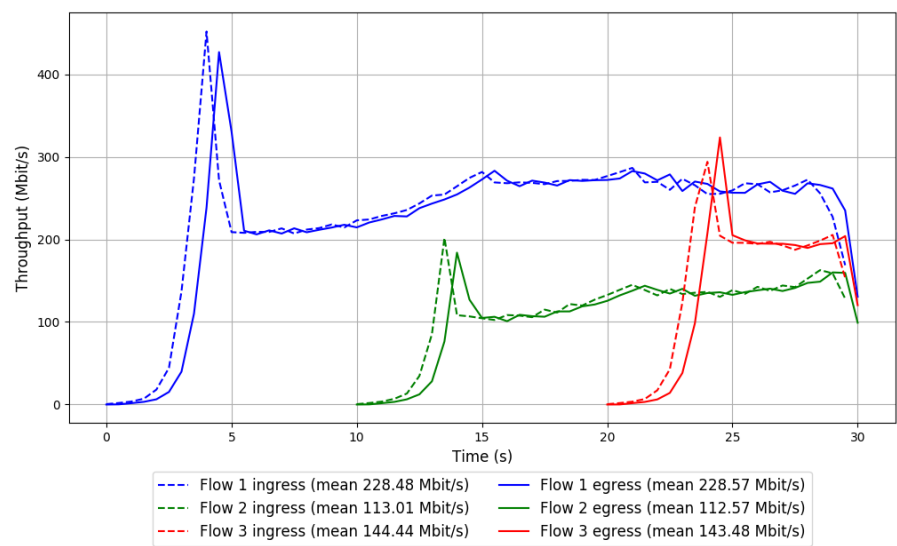
Average throughput: 143.48 Mbit/s

95th percentile per-packet one-way delay: 95.972 ms

Loss rate: 2.43%



Run 7: Report of PCC-Vivace — Data Link



Run 8: Statistics of PCC-Vivace

Start at: 2018-07-04 06:33:37

End at: 2018-07-04 06:34:07

Local clock offset: -0.039 ms

Remote clock offset: 0.11 ms

# Below is generated by plot.py at 2018-07-04 09:56:49

# Datalink statistics

-- Total of 3 flows:

Average throughput: 422.51 Mbit/s

95th percentile per-packet one-way delay: 89.052 ms

Loss rate: 0.78%

-- Flow 1:

Average throughput: 277.80 Mbit/s

95th percentile per-packet one-way delay: 89.394 ms

Loss rate: 0.56%

-- Flow 2:

Average throughput: 204.64 Mbit/s

95th percentile per-packet one-way delay: 88.085 ms

Loss rate: 1.08%

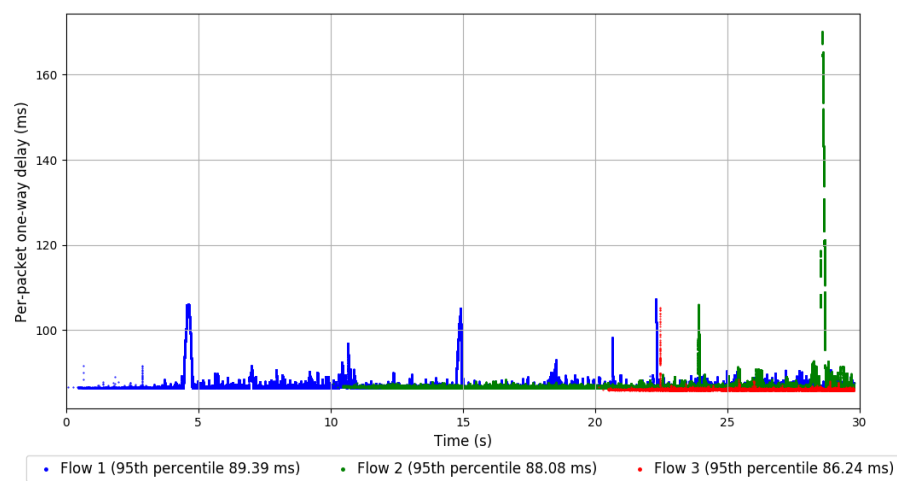
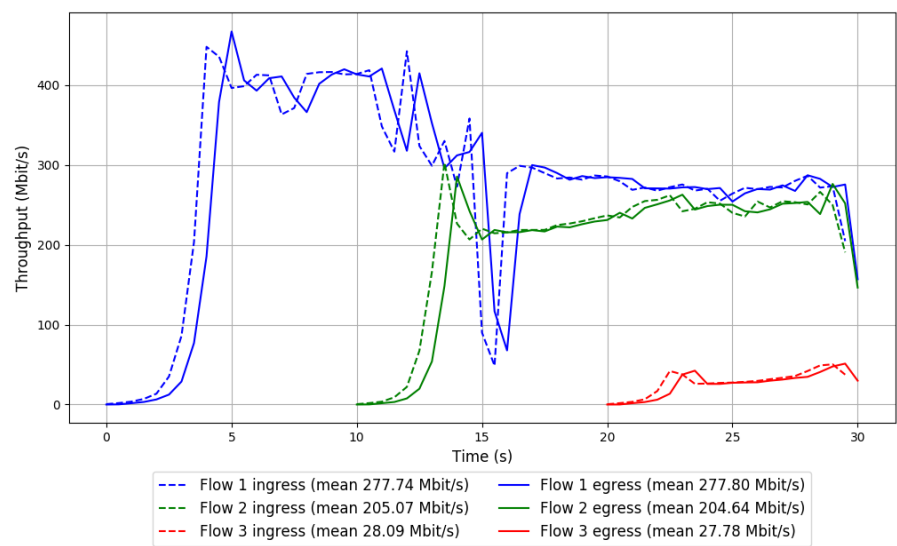
-- Flow 3:

Average throughput: 27.78 Mbit/s

95th percentile per-packet one-way delay: 86.241 ms

Loss rate: 2.86%

Run 8: Report of PCC-Vivace — Data Link



Run 9: Statistics of PCC-Vivace

Start at: 2018-07-04 06:57:55

End at: 2018-07-04 06:58:25

Local clock offset: -0.046 ms

Remote clock offset: 0.083 ms

# Below is generated by plot.py at 2018-07-04 09:57:53

# Datalink statistics

-- Total of 3 flows:

Average throughput: 470.69 Mbit/s

95th percentile per-packet one-way delay: 94.141 ms

Loss rate: 1.01%

-- Flow 1:

Average throughput: 302.96 Mbit/s

95th percentile per-packet one-way delay: 100.931 ms

Loss rate: 0.74%

-- Flow 2:

Average throughput: 184.67 Mbit/s

95th percentile per-packet one-way delay: 86.289 ms

Loss rate: 1.15%

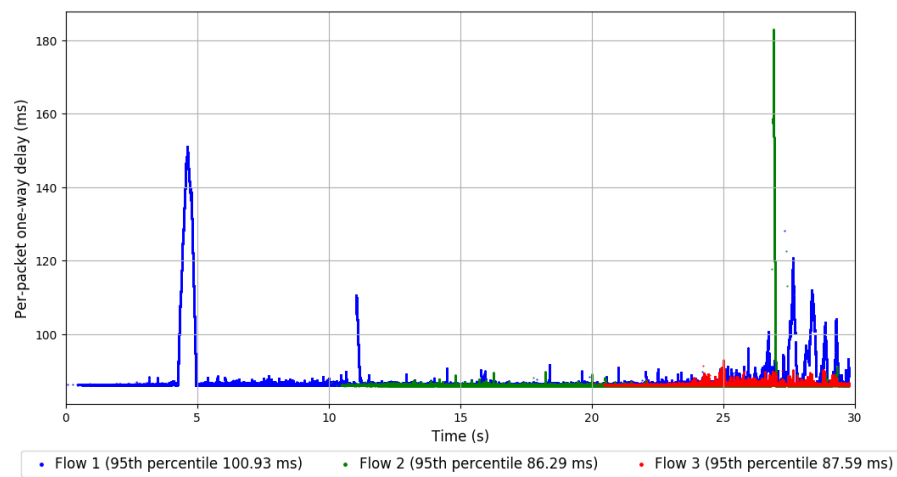
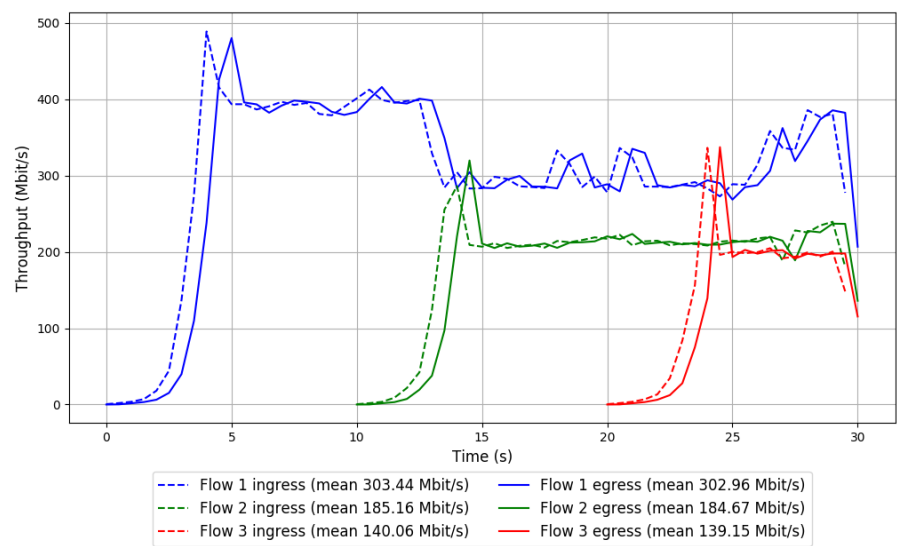
-- Flow 3:

Average throughput: 139.15 Mbit/s

95th percentile per-packet one-way delay: 87.589 ms

Loss rate: 2.44%

Run 9: Report of PCC-Vivace — Data Link

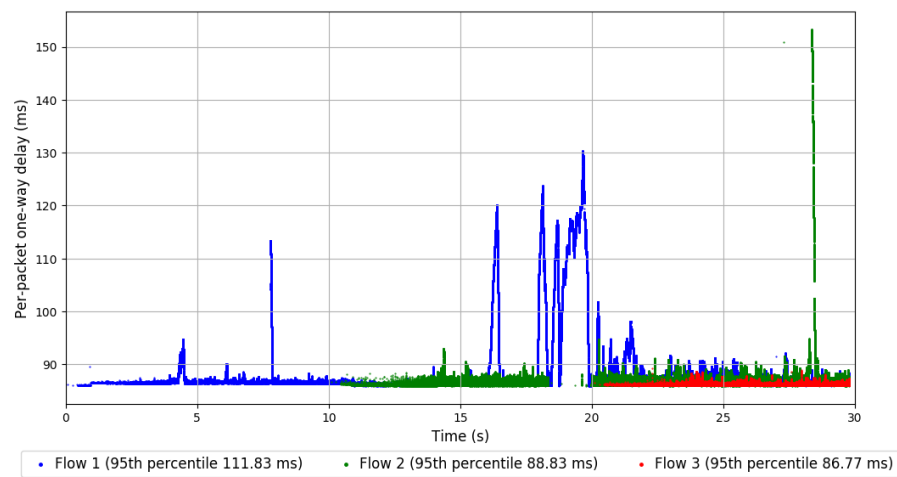
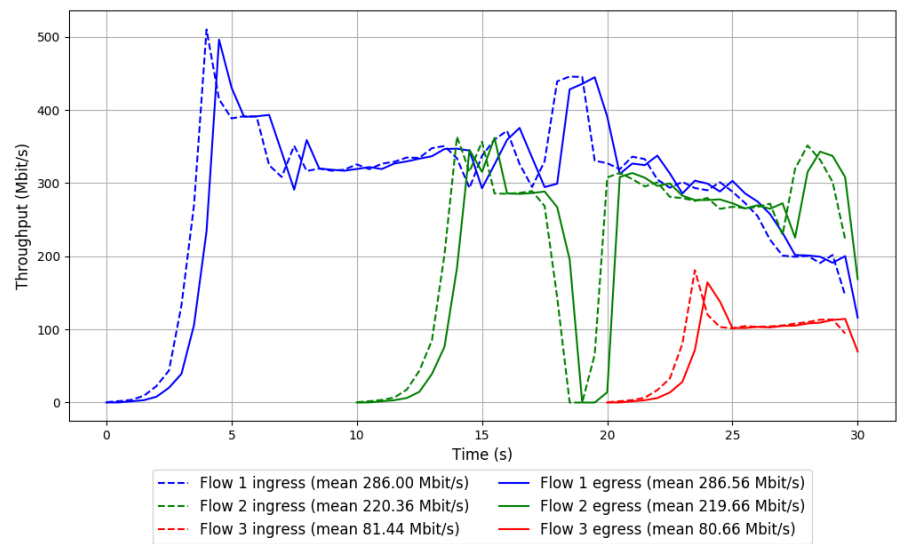


Run 10: Statistics of PCC-Vivace

Start at: 2018-07-04 07:22:51  
End at: 2018-07-04 07:23:21  
Local clock offset: -0.015 ms  
Remote clock offset: -0.052 ms

# Below is generated by plot.py at 2018-07-04 09:57:53  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 458.49 Mbit/s  
95th percentile per-packet one-way delay: 105.891 ms  
Loss rate: 0.78%  
-- Flow 1:  
Average throughput: 286.56 Mbit/s  
95th percentile per-packet one-way delay: 111.833 ms  
Loss rate: 0.39%  
-- Flow 2:  
Average throughput: 219.66 Mbit/s  
95th percentile per-packet one-way delay: 88.831 ms  
Loss rate: 1.19%  
-- Flow 3:  
Average throughput: 80.66 Mbit/s  
95th percentile per-packet one-way delay: 86.767 ms  
Loss rate: 2.70%

Run 10: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

Start at: 2018-07-04 03:42:58

End at: 2018-07-04 03:43:28

Local clock offset: -0.122 ms

Remote clock offset: 0.041 ms

# Below is generated by plot.py at 2018-07-04 09:57:53

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.34 Mbit/s

95th percentile per-packet one-way delay: 86.585 ms

Loss rate: 1.18%

-- Flow 1:

Average throughput: 1.69 Mbit/s

95th percentile per-packet one-way delay: 86.537 ms

Loss rate: 0.74%

-- Flow 2:

Average throughput: 1.22 Mbit/s

95th percentile per-packet one-way delay: 86.649 ms

Loss rate: 1.02%

-- Flow 3:

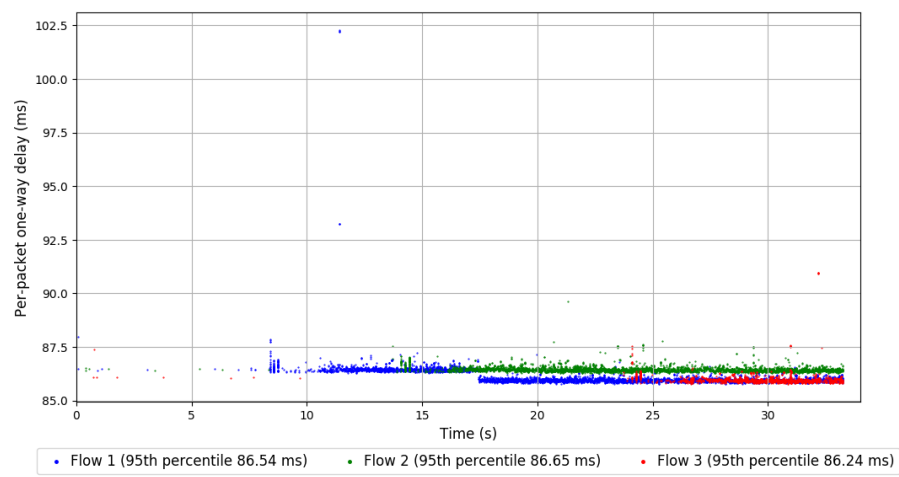
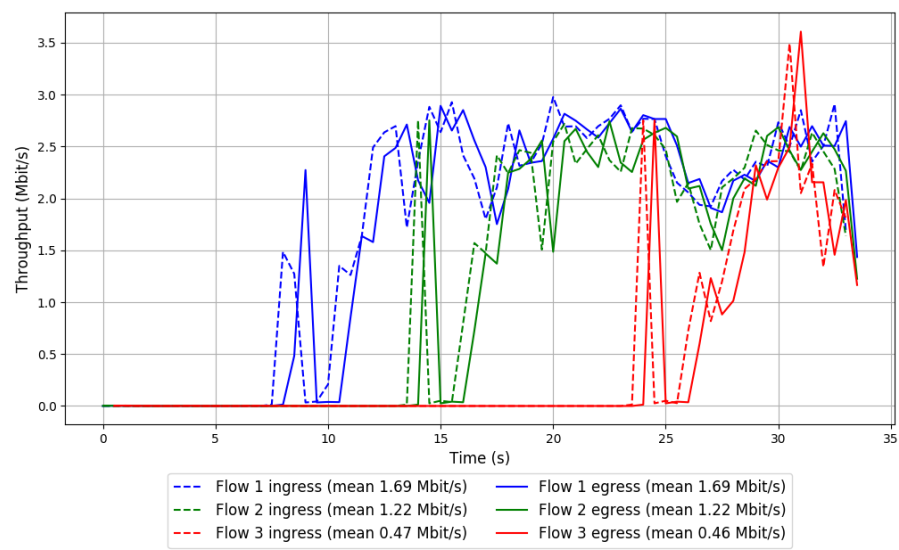
Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: 86.239 ms

Loss rate: 3.23%



Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-07-04 04:07:44

End at: 2018-07-04 04:08:14

Local clock offset: -0.033 ms

Remote clock offset: 0.058 ms

# Below is generated by plot.py at 2018-07-04 09:57:53

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.63 Mbit/s

95th percentile per-packet one-way delay: 86.529 ms

Loss rate: 1.13%

-- Flow 1:

Average throughput: 1.96 Mbit/s

95th percentile per-packet one-way delay: 86.506 ms

Loss rate: 0.68%

-- Flow 2:

Average throughput: 1.22 Mbit/s

95th percentile per-packet one-way delay: 86.464 ms

Loss rate: 1.38%

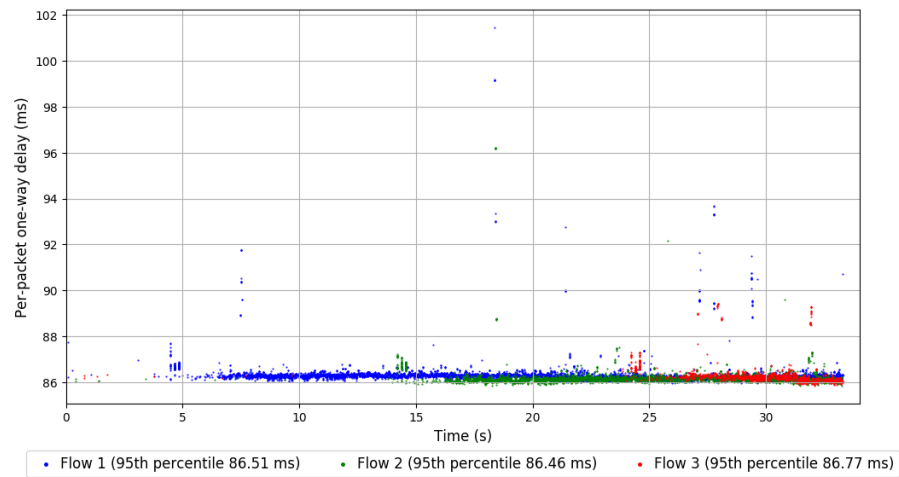
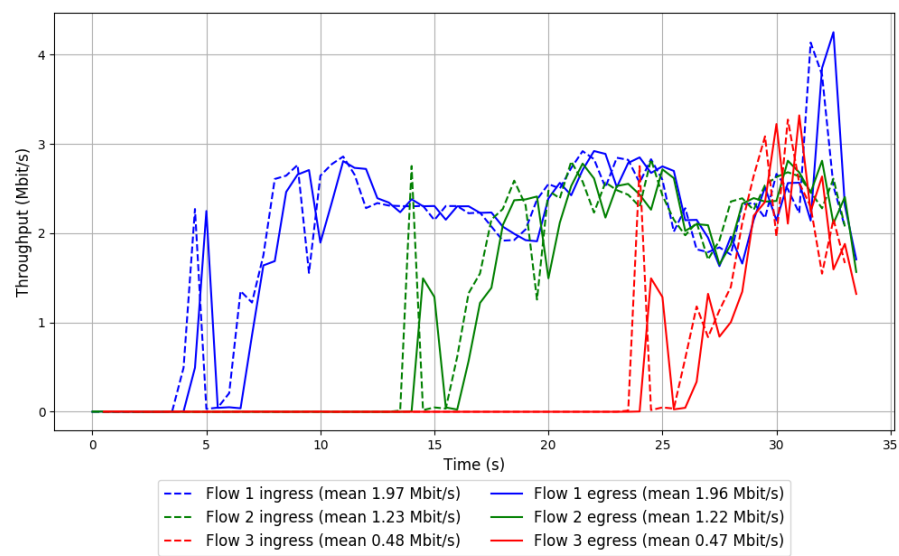
-- Flow 3:

Average throughput: 0.47 Mbit/s

95th percentile per-packet one-way delay: 86.772 ms

Loss rate: 2.39%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-07-04 04:32:47

End at: 2018-07-04 04:33:17

Local clock offset: -0.028 ms

Remote clock offset: 0.112 ms

# Below is generated by plot.py at 2018-07-04 09:57:53

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.71 Mbit/s

95th percentile per-packet one-way delay: 86.501 ms

Loss rate: 1.02%

-- Flow 1:

Average throughput: 2.01 Mbit/s

95th percentile per-packet one-way delay: 86.210 ms

Loss rate: 0.67%

-- Flow 2:

Average throughput: 1.24 Mbit/s

95th percentile per-packet one-way delay: 86.356 ms

Loss rate: 0.80%

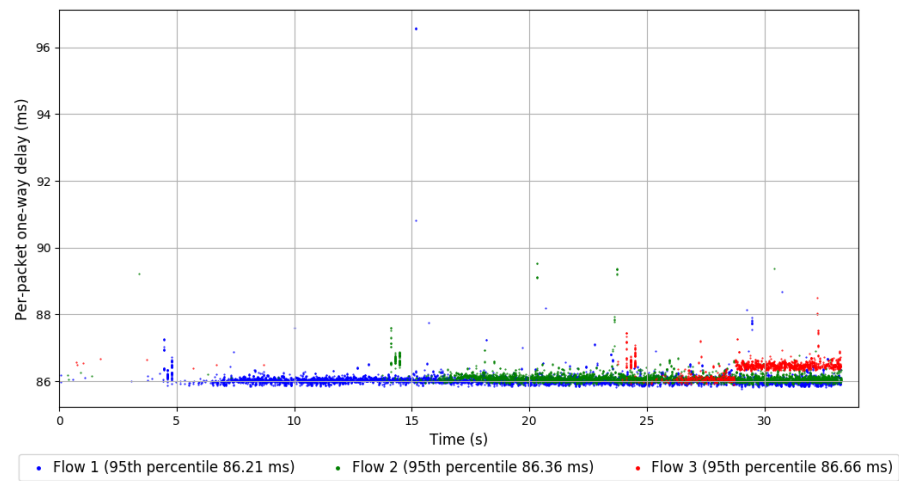
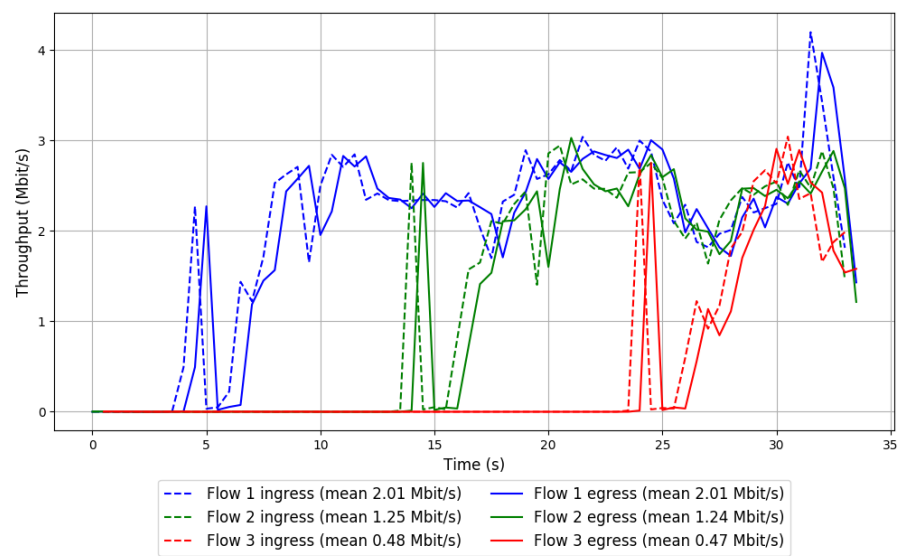
-- Flow 3:

Average throughput: 0.47 Mbit/s

95th percentile per-packet one-way delay: 86.662 ms

Loss rate: 3.06%

Run 3: Report of WebRTC media — Data Link

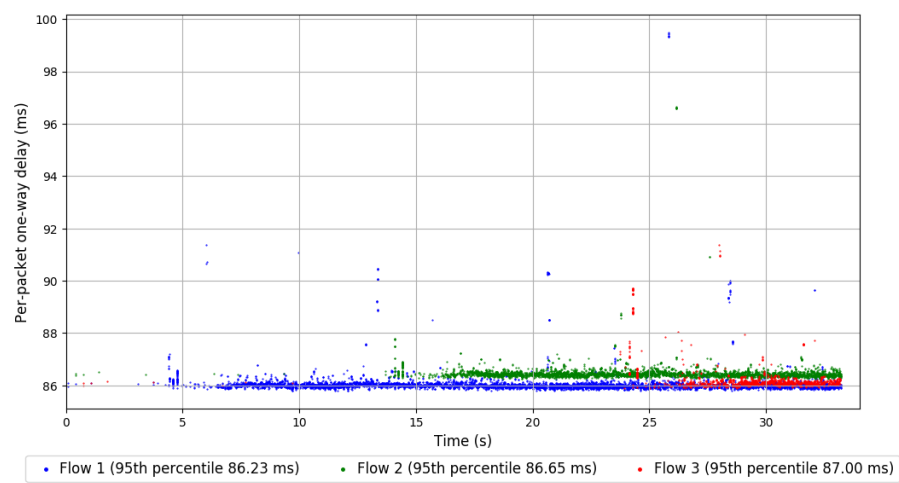
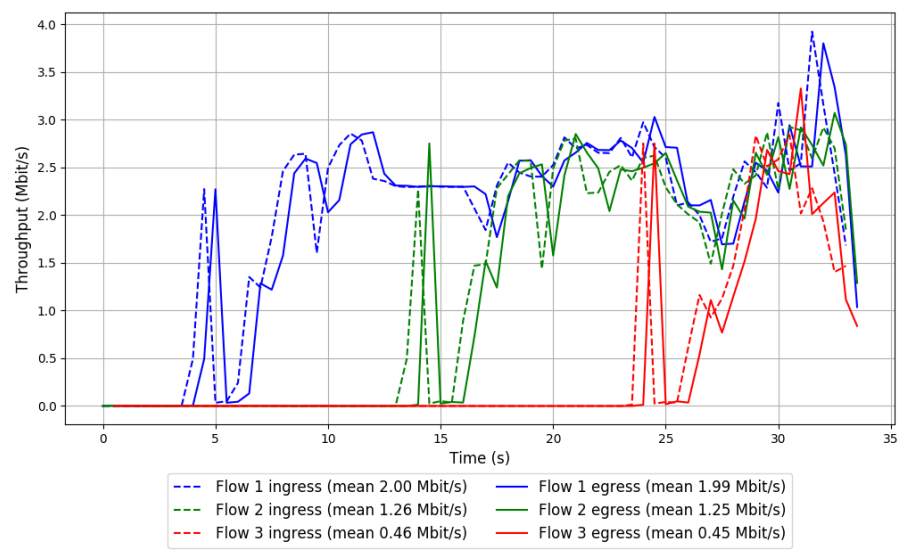


Run 4: Statistics of WebRTC media

Start at: 2018-07-04 04:57:37  
End at: 2018-07-04 04:58:07  
Local clock offset: -0.111 ms  
Remote clock offset: -0.003 ms

# Below is generated by plot.py at 2018-07-04 09:57:53  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 3.67 Mbit/s  
95th percentile per-packet one-way delay: 86.561 ms  
Loss rate: 1.22%  
-- Flow 1:  
Average throughput: 1.99 Mbit/s  
95th percentile per-packet one-way delay: 86.234 ms  
Loss rate: 0.78%  
-- Flow 2:  
Average throughput: 1.25 Mbit/s  
95th percentile per-packet one-way delay: 86.647 ms  
Loss rate: 1.22%  
-- Flow 3:  
Average throughput: 0.45 Mbit/s  
95th percentile per-packet one-way delay: 87.002 ms  
Loss rate: 3.21%

Run 4: Report of WebRTC media — Data Link



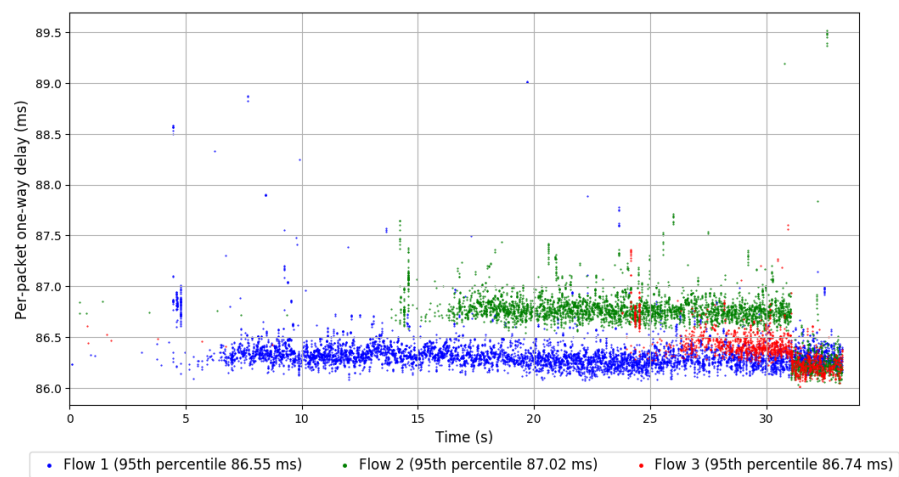
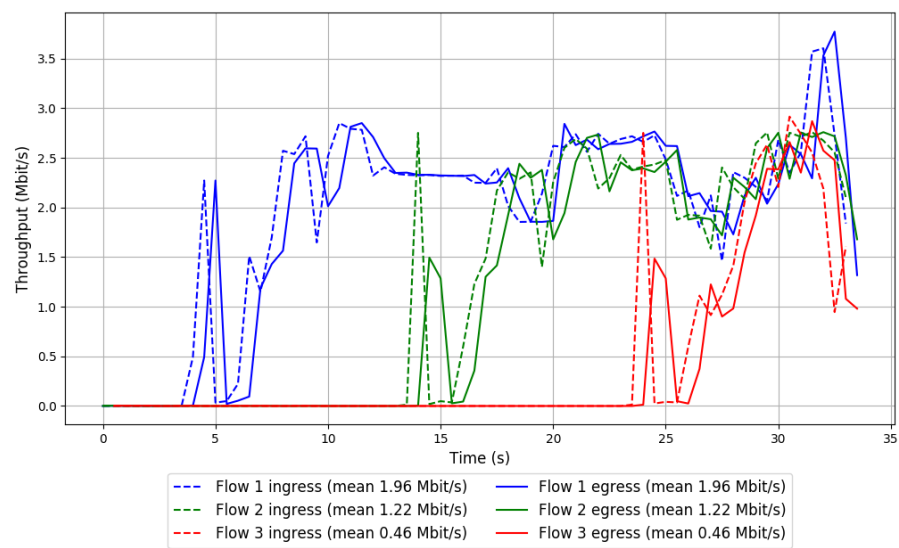
Run 5: Statistics of WebRTC media

Start at: 2018-07-04 05:22:14  
End at: 2018-07-04 05:22:44  
Local clock offset: 0.238 ms  
Remote clock offset: -0.032 ms

# Below is generated by plot.py at 2018-07-04 09:57:53  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 3.61 Mbit/s  
95th percentile per-packet one-way delay: 86.901 ms  
Loss rate: 1.11%  
-- Flow 1:  
Average throughput: 1.96 Mbit/s  
95th percentile per-packet one-way delay: 86.552 ms  
Loss rate: 0.70%  
-- Flow 2:  
Average throughput: 1.22 Mbit/s  
95th percentile per-packet one-way delay: 87.019 ms  
Loss rate: 1.27%  
-- Flow 3:  
Average throughput: 0.46 Mbit/s  
95th percentile per-packet one-way delay: 86.737 ms  
Loss rate: 2.48%



Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-07-04 05:47:10

End at: 2018-07-04 05:47:40

Local clock offset: 0.165 ms

Remote clock offset: 0.006 ms

# Below is generated by plot.py at 2018-07-04 09:57:53

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.96 Mbit/s

95th percentile per-packet one-way delay: 86.714 ms

Loss rate: 2.38%

-- Flow 1:

Average throughput: 1.96 Mbit/s

95th percentile per-packet one-way delay: 86.273 ms

Loss rate: 0.77%

-- Flow 2:

Average throughput: 1.57 Mbit/s

95th percentile per-packet one-way delay: 86.796 ms

Loss rate: 4.12%

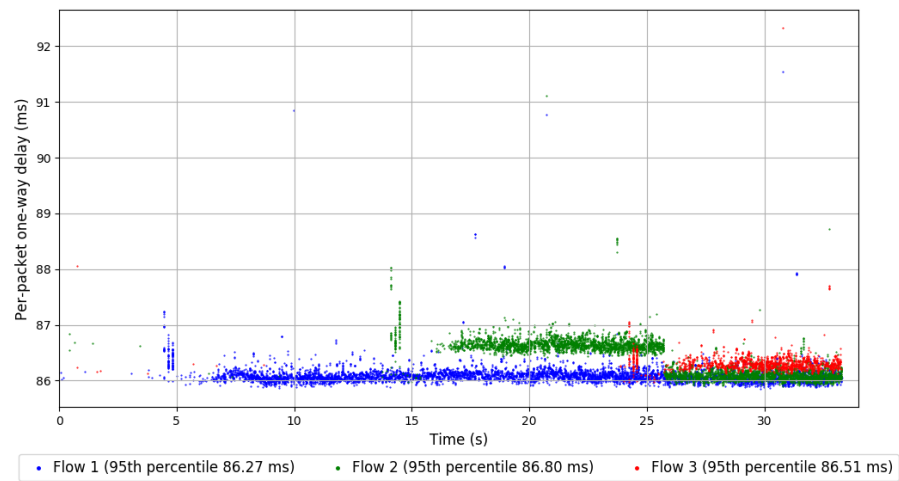
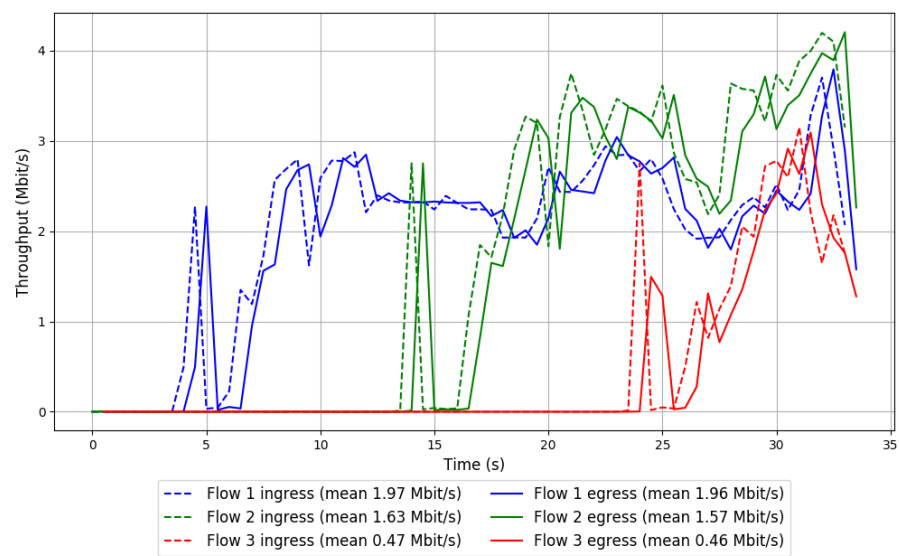
-- Flow 3:

Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: 86.508 ms

Loss rate: 3.16%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-07-04 06:11:53

End at: 2018-07-04 06:12:23

Local clock offset: 0.113 ms

Remote clock offset: 0.117 ms

# Below is generated by plot.py at 2018-07-04 09:57:53

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.64 Mbit/s

95th percentile per-packet one-way delay: 86.828 ms

Loss rate: 1.09%

-- Flow 1:

Average throughput: 1.97 Mbit/s

95th percentile per-packet one-way delay: 86.574 ms

Loss rate: 0.68%

-- Flow 2:

Average throughput: 1.23 Mbit/s

95th percentile per-packet one-way delay: 86.908 ms

Loss rate: 1.22%

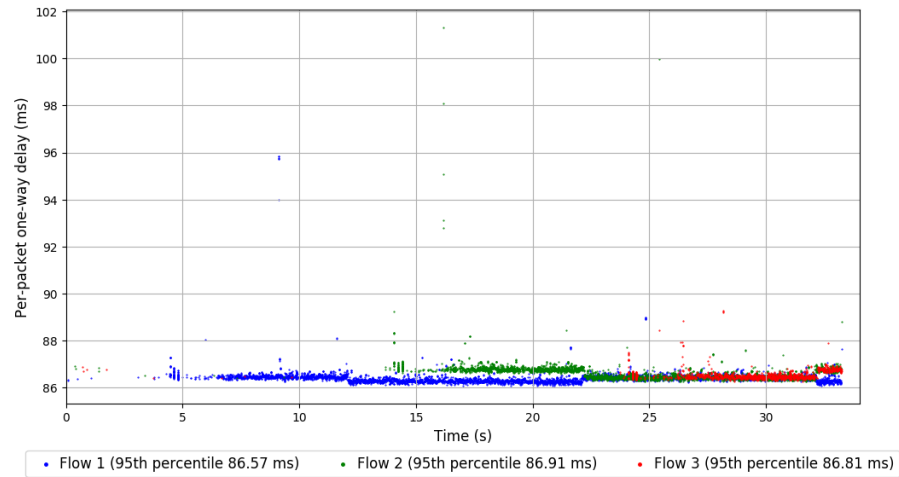
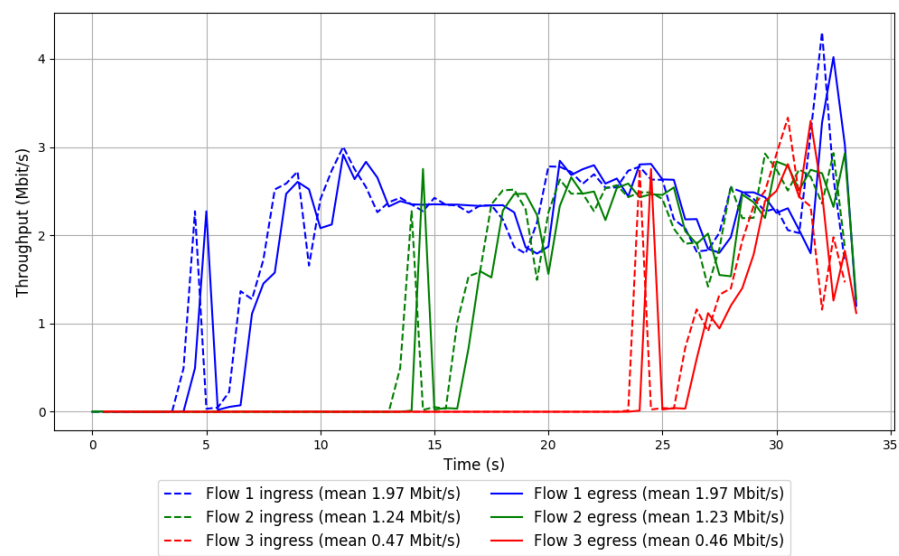
-- Flow 3:

Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: 86.812 ms

Loss rate: 2.47%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-07-04 06:36:31

End at: 2018-07-04 06:37:01

Local clock offset: -0.307 ms

Remote clock offset: 0.113 ms

# Below is generated by plot.py at 2018-07-04 09:57:53

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.63 Mbit/s

95th percentile per-packet one-way delay: 86.056 ms

Loss rate: 1.03%

-- Flow 1:

Average throughput: 1.98 Mbit/s

95th percentile per-packet one-way delay: 86.024 ms

Loss rate: 0.49%

-- Flow 2:

Average throughput: 1.23 Mbit/s

95th percentile per-packet one-way delay: 86.034 ms

Loss rate: 1.02%

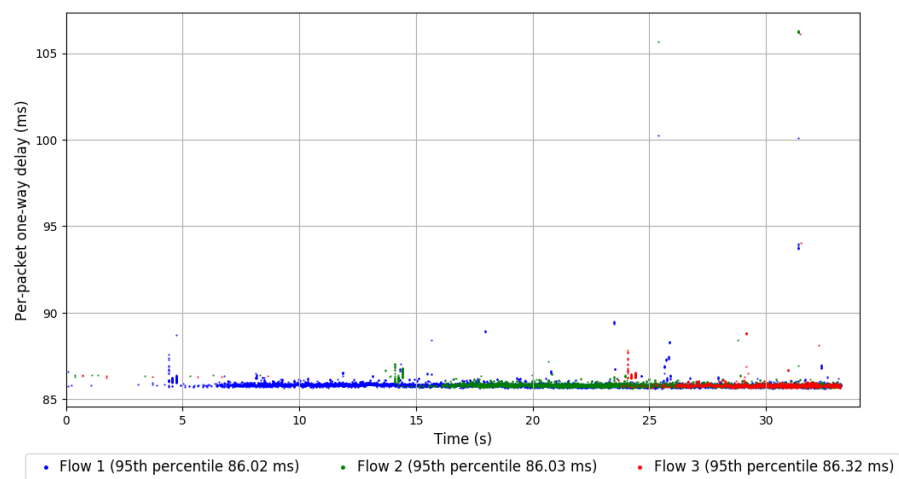
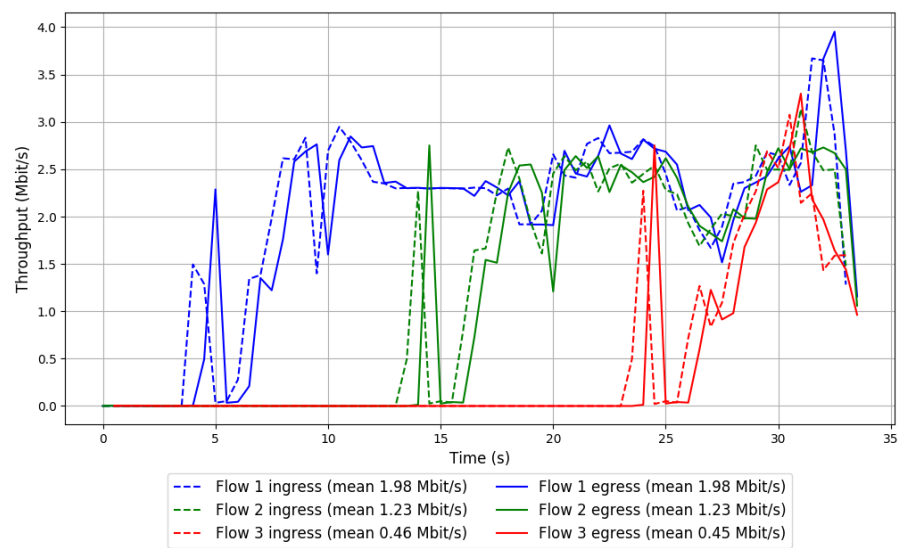
-- Flow 3:

Average throughput: 0.45 Mbit/s

95th percentile per-packet one-way delay: 86.323 ms

Loss rate: 3.39%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-07-04 07:00:52

End at: 2018-07-04 07:01:22

Local clock offset: -0.143 ms

Remote clock offset: 0.05 ms

# Below is generated by plot.py at 2018-07-04 09:57:53

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.60 Mbit/s

95th percentile per-packet one-way delay: 86.646 ms

Loss rate: 1.10%

-- Flow 1:

Average throughput: 1.97 Mbit/s

95th percentile per-packet one-way delay: 86.683 ms

Loss rate: 0.70%

-- Flow 2:

Average throughput: 1.21 Mbit/s

95th percentile per-packet one-way delay: 86.603 ms

Loss rate: 1.24%

-- Flow 3:

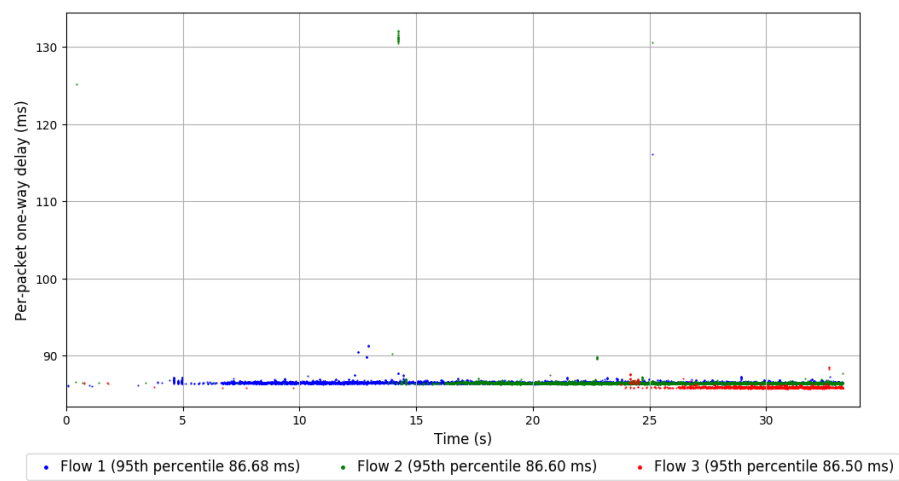
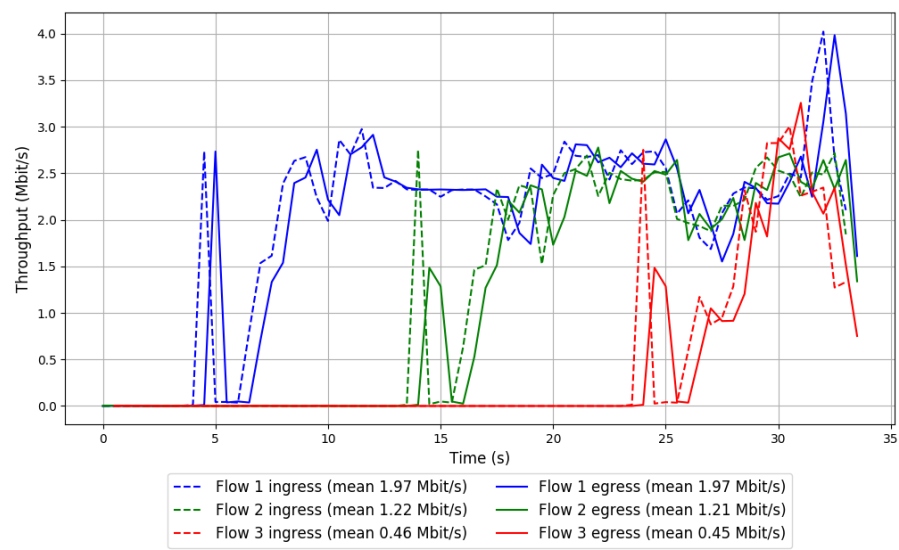
Average throughput: 0.45 Mbit/s

95th percentile per-packet one-way delay: 86.504 ms

Loss rate: 2.47%



Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-07-04 07:25:48

End at: 2018-07-04 07:26:18

Local clock offset: 0.168 ms

Remote clock offset: -0.06 ms

# Below is generated by plot.py at 2018-07-04 09:57:53

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.66 Mbit/s

95th percentile per-packet one-way delay: 86.857 ms

Loss rate: 1.13%

-- Flow 1:

Average throughput: 1.99 Mbit/s

95th percentile per-packet one-way delay: 86.816 ms

Loss rate: 0.79%

-- Flow 2:

Average throughput: 1.22 Mbit/s

95th percentile per-packet one-way delay: 86.626 ms

Loss rate: 0.90%

-- Flow 3:

Average throughput: 0.45 Mbit/s

95th percentile per-packet one-way delay: 86.993 ms

Loss rate: 3.25%

Run 10: Report of WebRTC media — Data Link

