

## Pantheon Report

Generated at 2017-12-01 08:28:37 (UTC).

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

Repeated the test of 14 congestion control schemes 10 times.

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

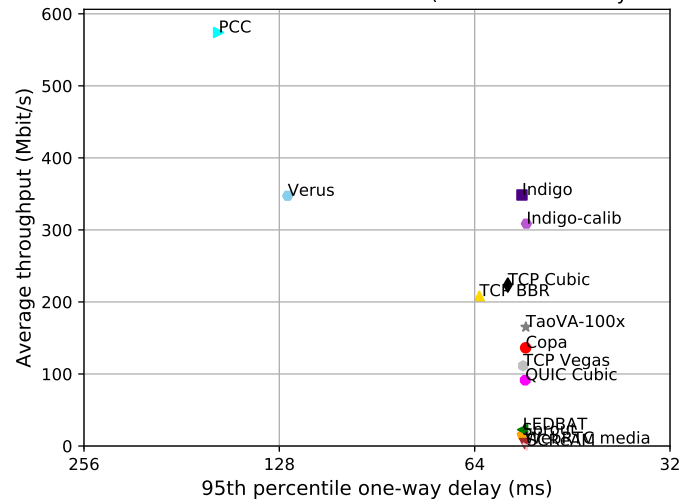
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo.fast**).

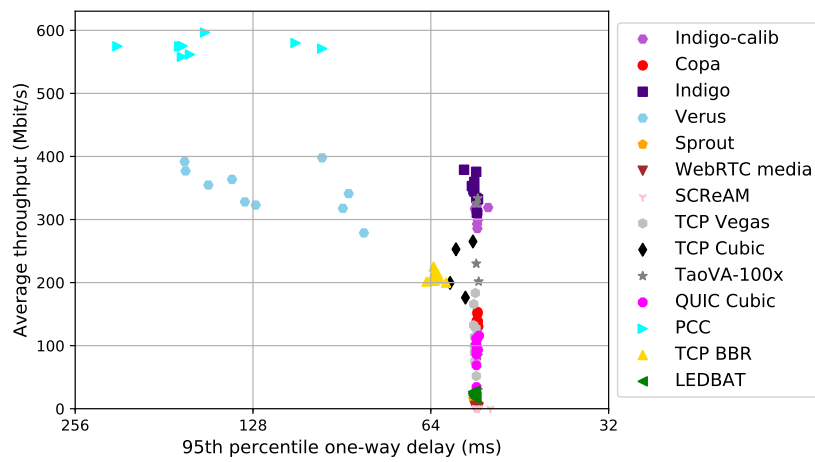
Git summary:

```
branch: indigos @ e3a57ad5ac5cfcaca0e3f983c8dd4cc3509e0262
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
M datagrump/sender.cc
third_party/genericCC @ b5b7c38e8391001927dc41c6cfa2627d03dde737
third_party/indigo @ b19f3730105f9aa95452552af924e3719b03cc55
third_party/indigo-cellular @ aee99e8eb842cb053f8c9a80e28cd256a930bbc2
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/indigo-no-cwnd @ 3e58442c04028a11d7b02456e137604633ba2d6c
third_party/indigo-no-delivery-rate @ 57caa40858b964906edff4876d5a7e5bfff666c5
third_party/indigo-no-queuing-delay @ 03455460fd1a8ffbdad86fabb936fdca204b80db
third_party/indigo-no-send-rate @ b39dfa6b2c5f19cb7cd89626cb4f5bb81f9fecda
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ baf443516dea3eeddeccaf9b916cc313273ca4f4
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/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaaeb30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

test from GCE Sydney Ethernet to GCE Tokyo Ethernet, 10 runs of 30s each per scheme  
 3 flows with 10s interval between flows (mean of all runs by scheme)



test from GCE Sydney Ethernet to GCE Tokyo Ethernet, 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     | 102.51                 | 106.38 | 105.51 | 62.45                     | 63.09  | 63.82  | 0.08               | 0.01   | 0.01   |
| TCP Cubic    | 4      | 101.64                 | 119.02 | 123.63 | 56.34                     | 56.38  | 56.81  | 0.15               | 0.00   | 0.00   |
| LEDBAT       | 10     | 12.74                  | 10.60  | 8.81   | 53.97                     | 53.89  | 53.28  | 0.22               | 0.13   | 0.23   |
| PCC          | 10     | 527.16                 | 58.20  | 25.05  | 156.34                    | 159.42 | 157.22 | 0.74               | 0.51   | 0.45   |
| QUIC Cubic   | 10     | 48.96                  | 46.20  | 36.14  | 52.18                     | 52.95  | 52.19  | 0.00               | 0.02   | 0.00   |
| SCReAM       | 10     | 0.21                   | 0.21   | 0.22   | 52.65                     | 51.29  | 52.24  | 0.00               | 0.00   | 0.00   |
| WebRTC media | 8      | 1.48                   | 1.41   | 0.68   | 52.55                     | 53.09  | 53.10  | 0.00               | 0.00   | 0.00   |
| Sprout       | 10     | 7.75                   | 7.73   | 7.40   | 54.08                     | 54.12  | 53.71  | 0.13               | 0.14   | 0.01   |
| TaoVA-100x   | 8      | 78.43                  | 77.79  | 129.24 | 53.60                     | 53.07  | 52.36  | 0.00               | 0.00   | 0.00   |
| TCP Vegas    | 10     | 50.84                  | 62.12  | 56.48  | 53.77                     | 53.92  | 53.92  | 0.25               | 0.04   | 0.02   |
| Verus        | 10     | 212.81                 | 146.49 | 118.23 | 121.95                    | 127.35 | 124.99 | 0.17               | 0.38   | 0.32   |
| Copa         | 10     | 72.24                  | 73.40  | 59.85  | 53.34                     | 53.42  | 52.89  | 0.03               | 0.00   | 0.00   |
| Indigo       | 9      | 175.19                 | 169.42 | 142.74 | 53.87                     | 54.10  | 54.72  | 0.02               | 0.02   | 0.06   |
| Indigo-calib | 10     | 160.91                 | 158.34 | 132.16 | 53.16                     | 53.16  | 52.97  | 0.01               | 0.00   | 0.00   |

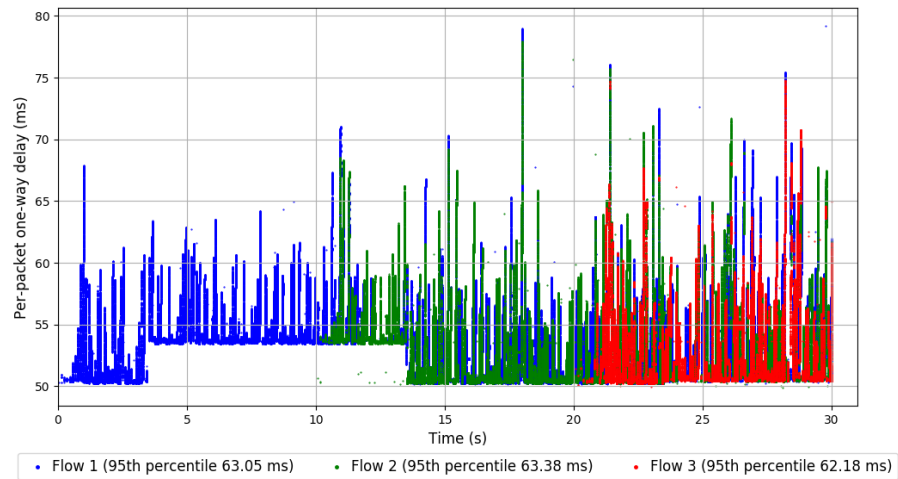
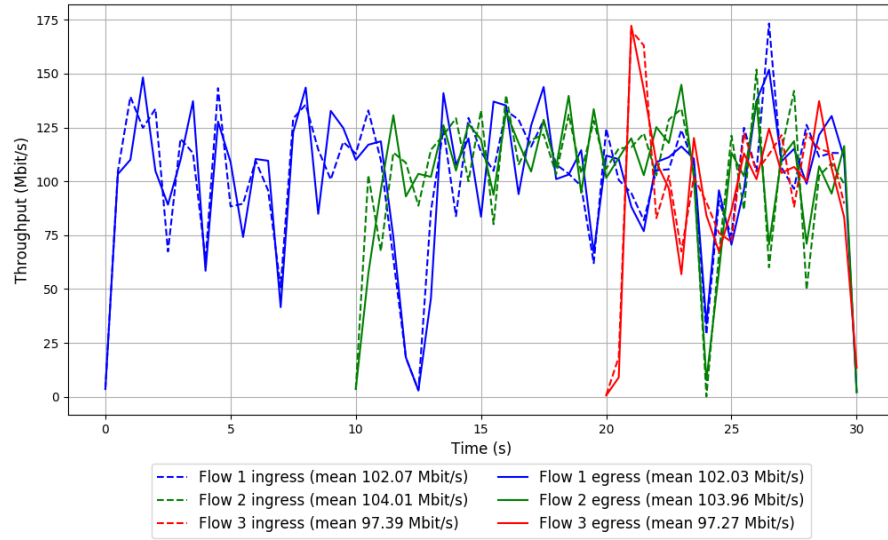
```
Run 1: Statistics of TCP BBR

Start at: 2017-12-01 04:18:00
End at: 2017-12-01 04:18:30

# Below is generated by plot.py at 2017-12-01 07:33:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 203.55 Mbit/s
95th percentile per-packet one-way delay: 63.065 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 102.03 Mbit/s
95th percentile per-packet one-way delay: 63.054 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 103.96 Mbit/s
95th percentile per-packet one-way delay: 63.376 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 97.27 Mbit/s
95th percentile per-packet one-way delay: 62.184 ms
Loss rate: 0.01%
```



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



Run 2: Statistics of TCP BBR

Start at: 2017-12-01 04:29:50

End at: 2017-12-01 04:30:20

# Below is generated by plot.py at 2017-12-01 07:33:03

# Datalink statistics

-- Total of 3 flows:

Average throughput: 208.00 Mbit/s

95th percentile per-packet one-way delay: 63.610 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 107.23 Mbit/s

95th percentile per-packet one-way delay: 63.539 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 100.56 Mbit/s

95th percentile per-packet one-way delay: 63.386 ms

Loss rate: 0.01%

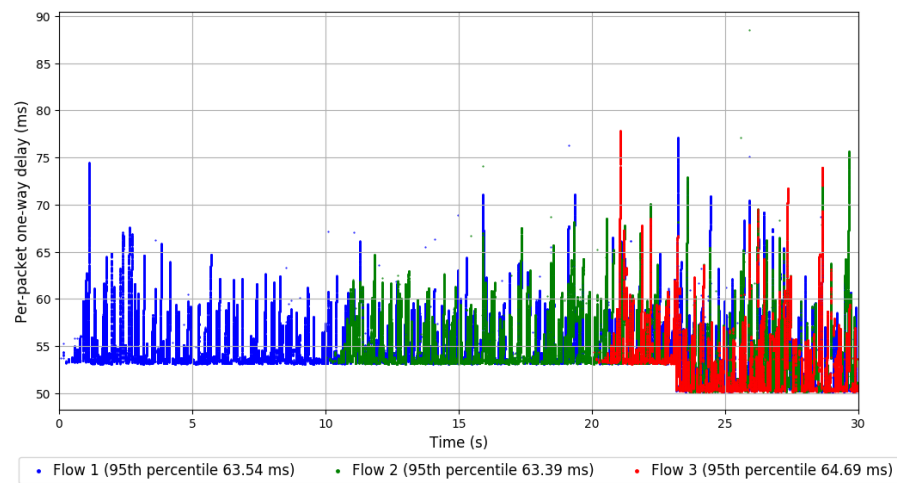
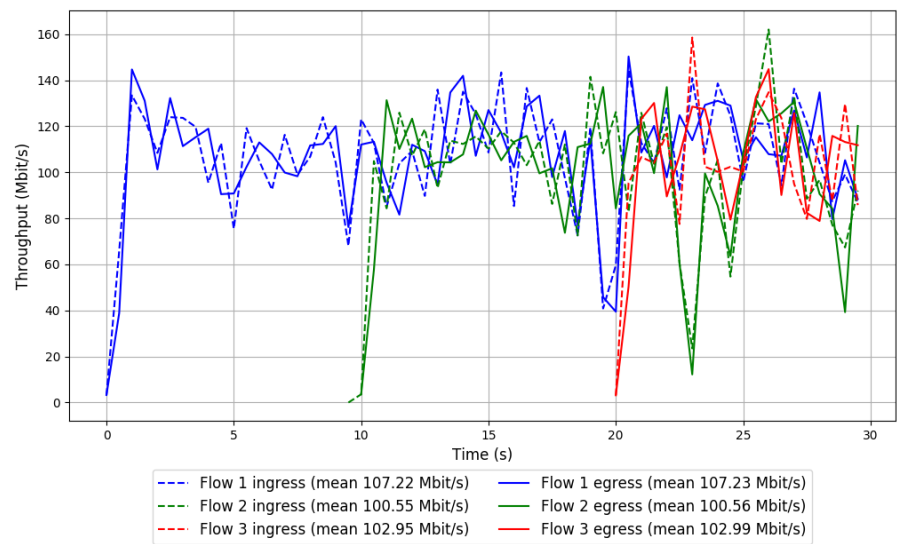
-- Flow 3:

Average throughput: 102.99 Mbit/s

95th percentile per-packet one-way delay: 64.688 ms

Loss rate: 0.00%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2017-12-01 04:41:50

End at: 2017-12-01 04:42:20

# Below is generated by plot.py at 2017-12-01 07:33:12

# Datalink statistics

-- Total of 3 flows:

Average throughput: 212.46 Mbit/s

95th percentile per-packet one-way delay: 63.425 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 103.05 Mbit/s

95th percentile per-packet one-way delay: 62.831 ms

Loss rate: 0.15%

-- Flow 2:

Average throughput: 101.97 Mbit/s

95th percentile per-packet one-way delay: 63.765 ms

Loss rate: 0.00%

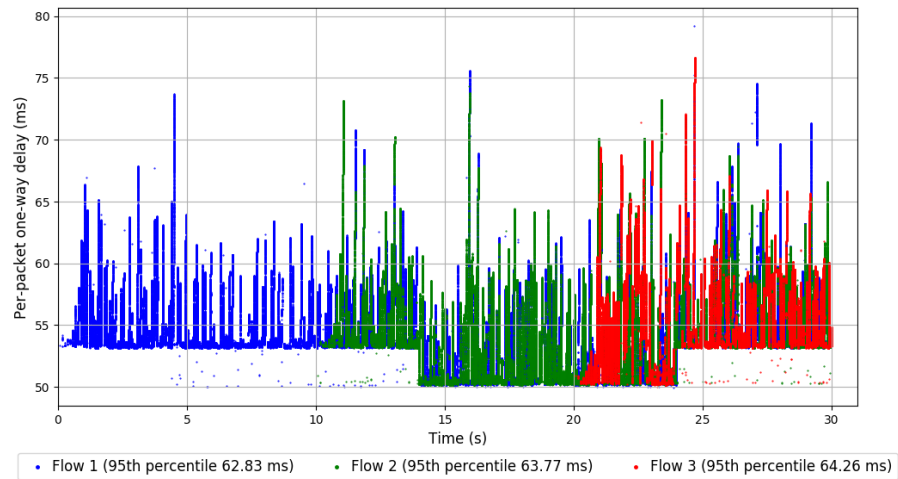
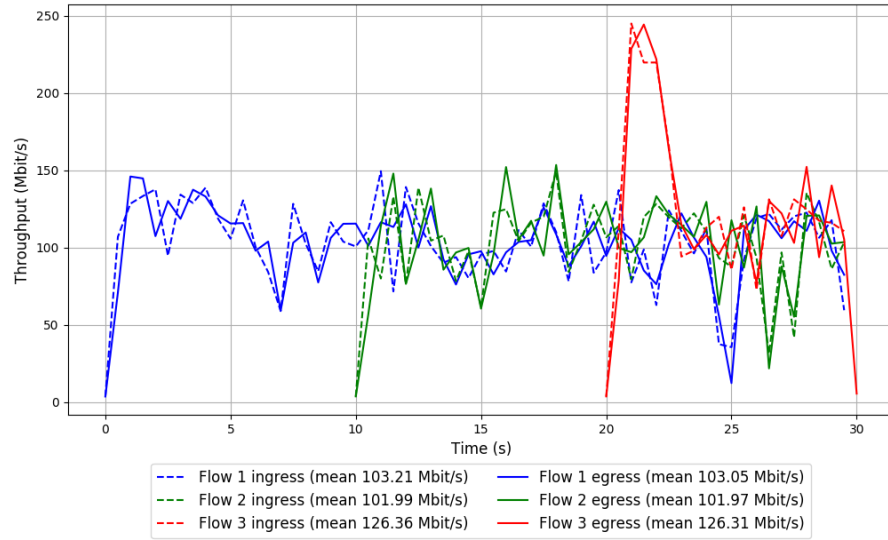
-- Flow 3:

Average throughput: 126.31 Mbit/s

95th percentile per-packet one-way delay: 64.262 ms

Loss rate: 0.00%

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



Run 4: Statistics of TCP BBR

Start at: 2017-12-01 04:53:38

End at: 2017-12-01 04:54:08

# Below is generated by plot.py at 2017-12-01 07:33:12

# Datalink statistics

-- Total of 3 flows:

Average throughput: 202.88 Mbit/s

95th percentile per-packet one-way delay: 63.174 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 100.54 Mbit/s

95th percentile per-packet one-way delay: 62.334 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 105.38 Mbit/s

95th percentile per-packet one-way delay: 64.122 ms

Loss rate: 0.01%

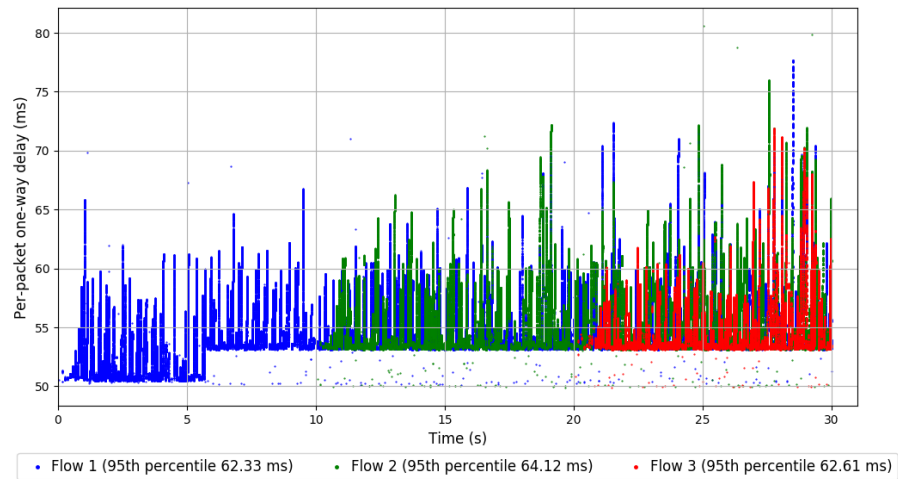
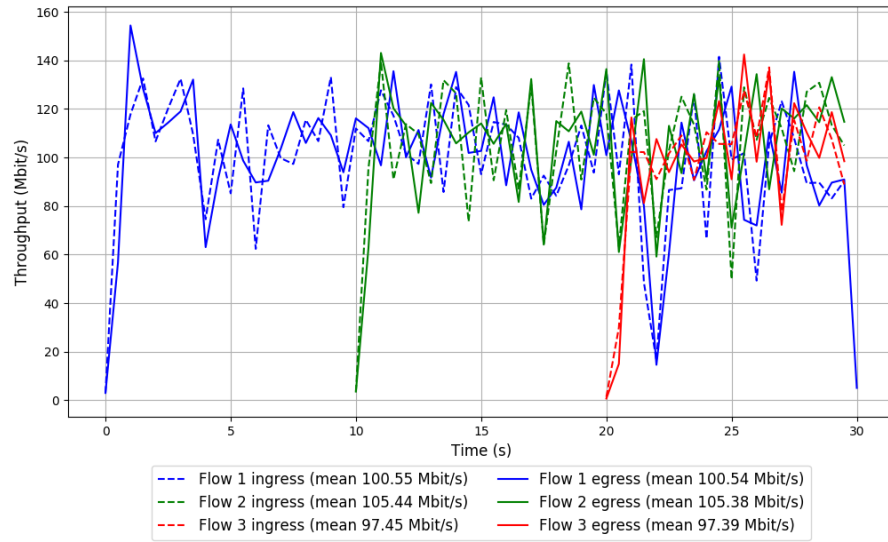
-- Flow 3:

Average throughput: 97.39 Mbit/s

95th percentile per-packet one-way delay: 62.612 ms

Loss rate: 0.03%

# Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2017-12-01 05:05:24

End at: 2017-12-01 05:05:54

# Below is generated by plot.py at 2017-12-01 07:33:12

# Datalink statistics

-- Total of 3 flows:

Average throughput: 205.74 Mbit/s

95th percentile per-packet one-way delay: 61.797 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 102.93 Mbit/s

95th percentile per-packet one-way delay: 61.791 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 103.75 Mbit/s

95th percentile per-packet one-way delay: 61.304 ms

Loss rate: 0.00%

-- Flow 3:

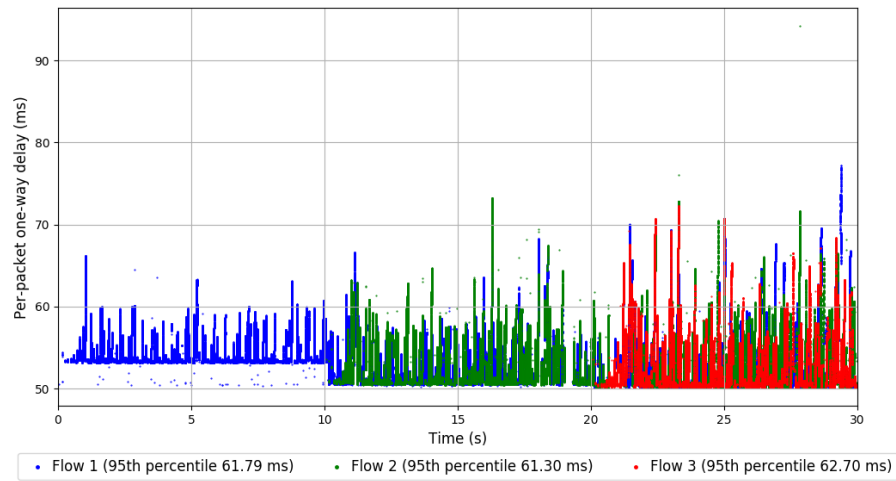
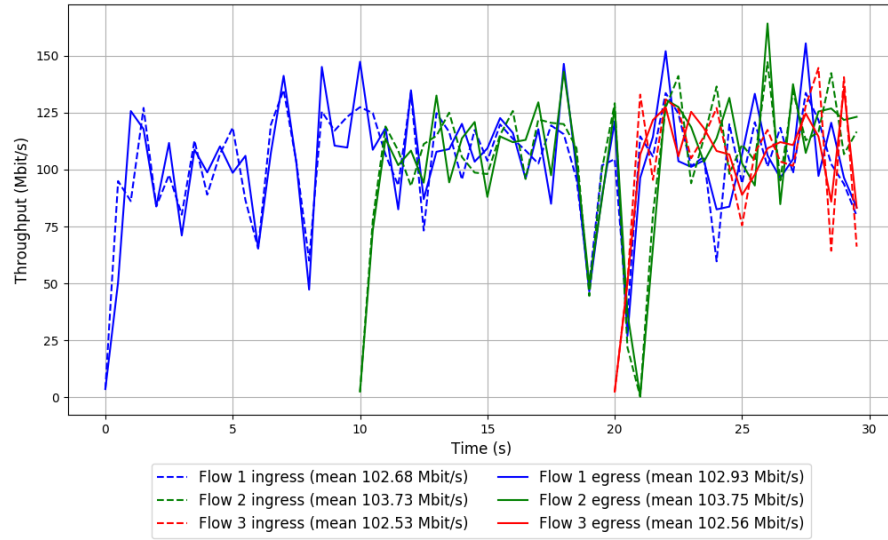
Average throughput: 102.56 Mbit/s

95th percentile per-packet one-way delay: 62.699 ms

Loss rate: 0.01%



# Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2017-12-01 05:17:11

End at: 2017-12-01 05:17:41

# Below is generated by plot.py at 2017-12-01 07:33:12

# Datalink statistics

-- Total of 3 flows:

Average throughput: 199.92 Mbit/s

95th percentile per-packet one-way delay: 60.323 ms

Loss rate: 0.16%

-- Flow 1:

Average throughput: 98.70 Mbit/s

95th percentile per-packet one-way delay: 60.149 ms

Loss rate: 0.32%

-- Flow 2:

Average throughput: 101.38 Mbit/s

95th percentile per-packet one-way delay: 60.283 ms

Loss rate: 0.00%

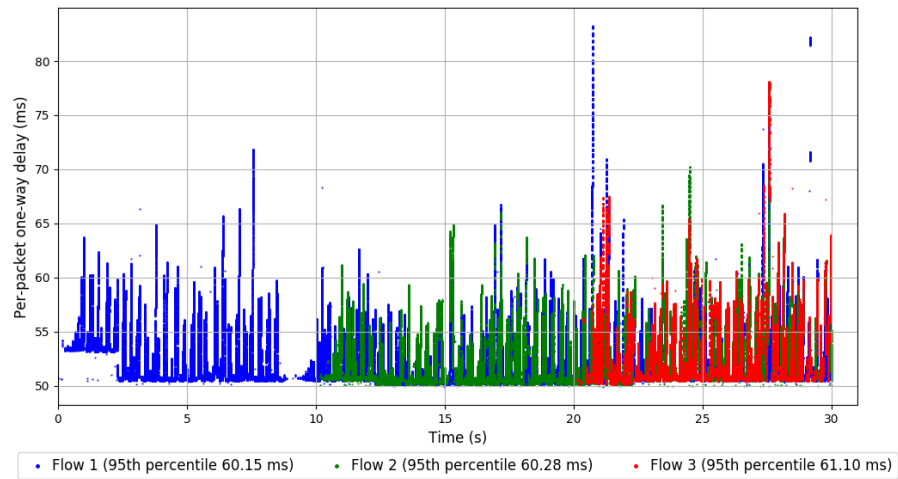
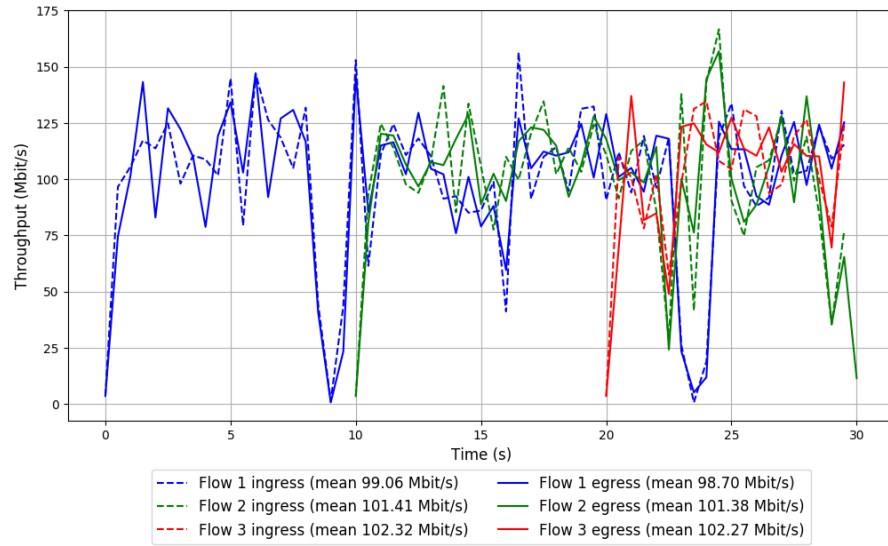
-- Flow 3:

Average throughput: 102.27 Mbit/s

95th percentile per-packet one-way delay: 61.104 ms

Loss rate: 0.00%

# Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2017-12-01 05:29:19

End at: 2017-12-01 05:29:49

# Below is generated by plot.py at 2017-12-01 07:33:12

# Datalink statistics

-- Total of 3 flows:

Average throughput: 201.70 Mbit/s

95th percentile per-packet one-way delay: 65.061 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 100.30 Mbit/s

95th percentile per-packet one-way delay: 63.634 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 96.59 Mbit/s

95th percentile per-packet one-way delay: 65.711 ms

Loss rate: 0.03%

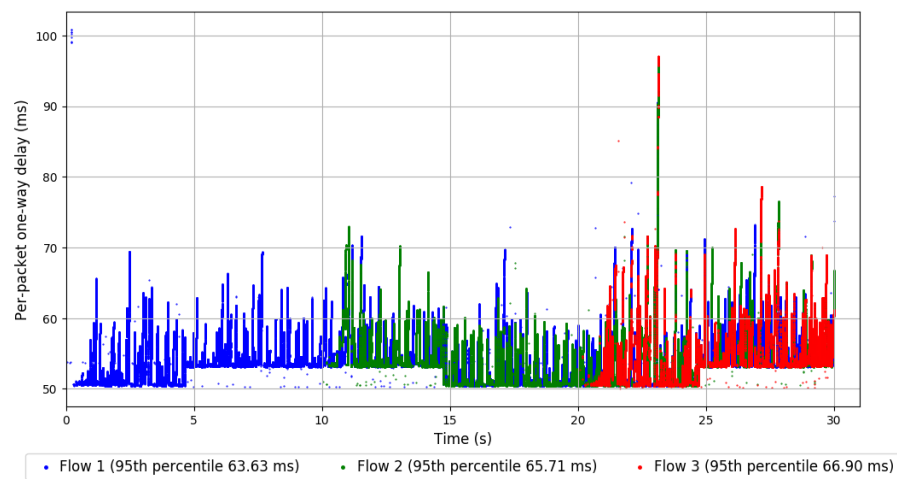
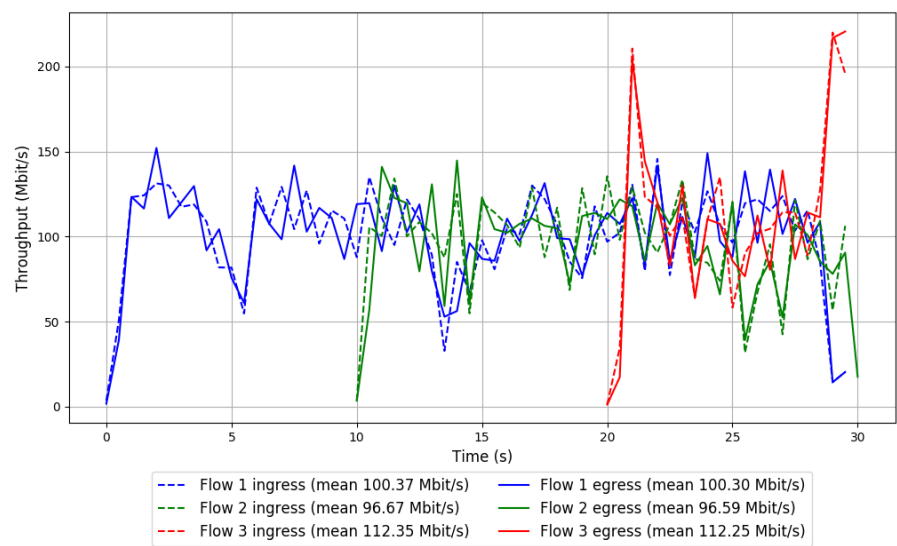
-- Flow 3:

Average throughput: 112.25 Mbit/s

95th percentile per-packet one-way delay: 66.903 ms

Loss rate: 0.00%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2017-12-01 05:41:23

End at: 2017-12-01 05:41:53

# Below is generated by plot.py at 2017-12-01 07:33:18

# Datalink statistics

-- Total of 3 flows:

Average throughput: 214.07 Mbit/s

95th percentile per-packet one-way delay: 62.342 ms

Loss rate: 0.17%

-- Flow 1:

Average throughput: 101.61 Mbit/s

95th percentile per-packet one-way delay: 61.812 ms

Loss rate: 0.36%

-- Flow 2:

Average throughput: 115.09 Mbit/s

95th percentile per-packet one-way delay: 63.806 ms

Loss rate: 0.00%

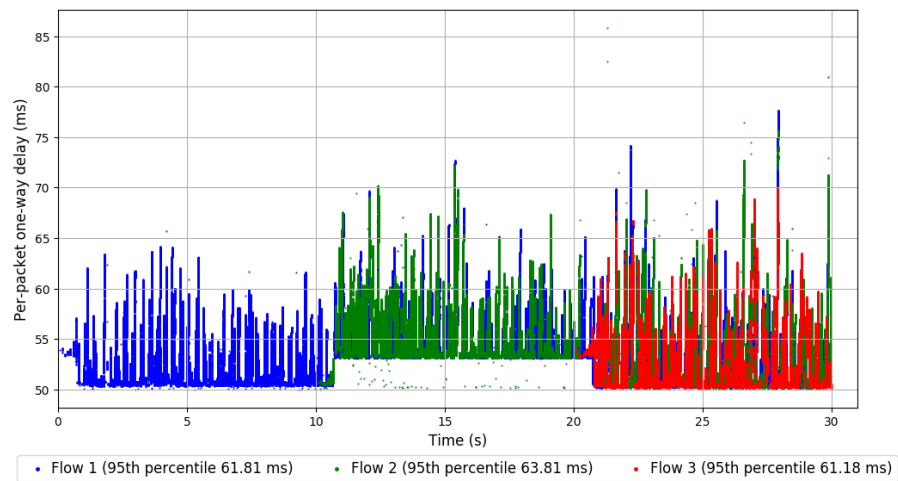
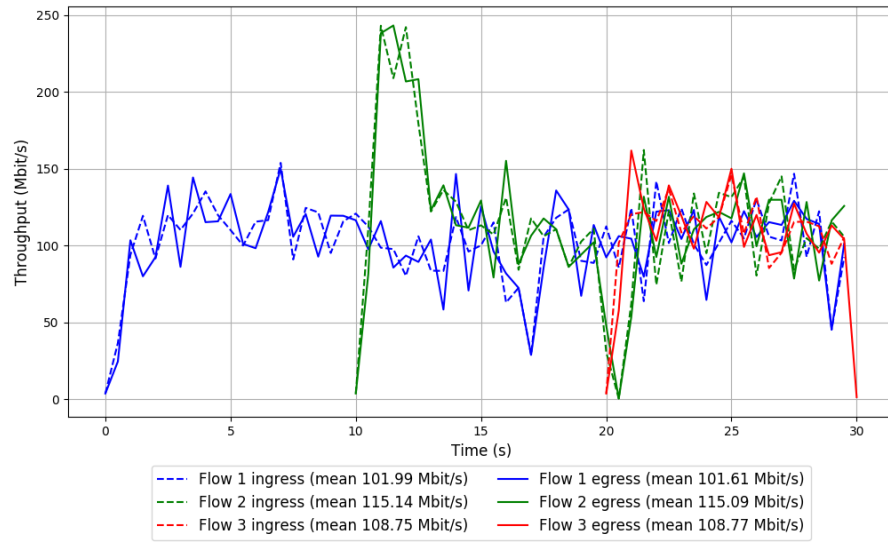
-- Flow 3:

Average throughput: 108.77 Mbit/s

95th percentile per-packet one-way delay: 61.182 ms

Loss rate: 0.00%

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



Run 9: Statistics of TCP BBR

Start at: 2017-12-01 05:53:09

End at: 2017-12-01 05:53:39

# Below is generated by plot.py at 2017-12-01 07:36:28

# Datalink statistics

-- Total of 3 flows:

Average throughput: 207.09 Mbit/s

95th percentile per-packet one-way delay: 63.330 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 102.12 Mbit/s

95th percentile per-packet one-way delay: 61.880 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 104.86 Mbit/s

95th percentile per-packet one-way delay: 62.907 ms

Loss rate: 0.00%

-- Flow 3:

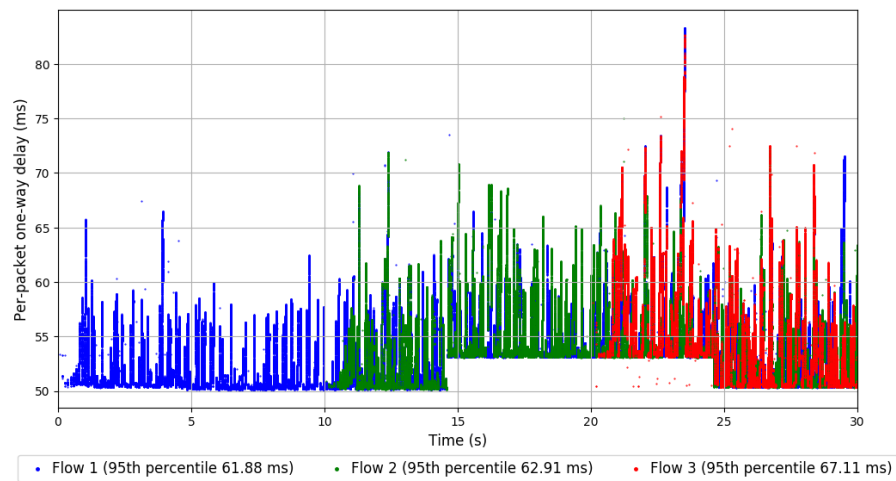
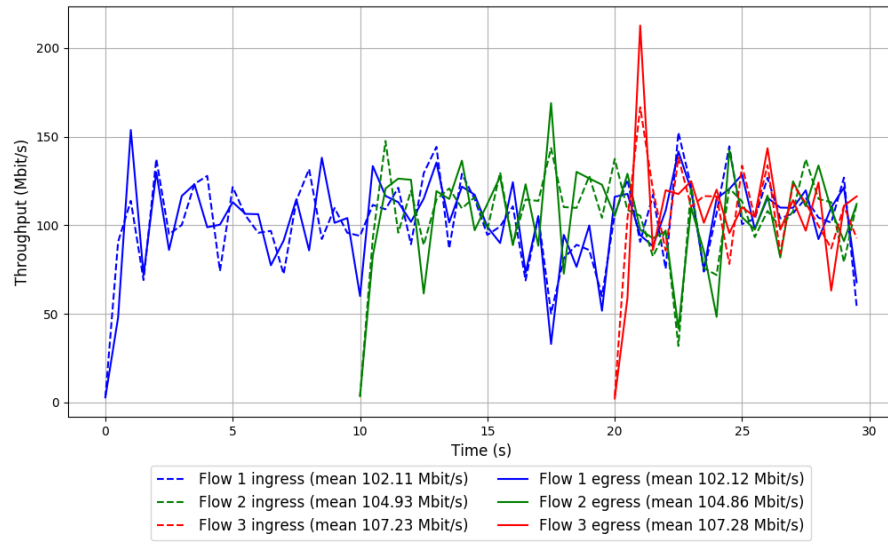
Average throughput: 107.28 Mbit/s

95th percentile per-packet one-way delay: 67.107 ms

Loss rate: 0.00%



# Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2017-12-01 06:05:24

End at: 2017-12-01 06:05:54

# Below is generated by plot.py at 2017-12-01 07:36:53

# Datalink statistics

-- Total of 3 flows:

Average throughput: 225.51 Mbit/s

95th percentile per-packet one-way delay: 63.302 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 106.60 Mbit/s

95th percentile per-packet one-way delay: 63.448 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 130.25 Mbit/s

95th percentile per-packet one-way delay: 62.256 ms

Loss rate: 0.00%

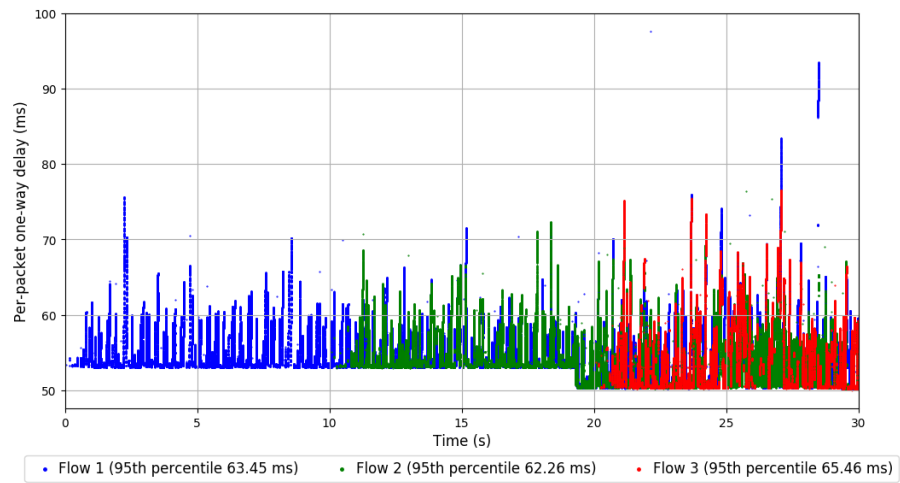
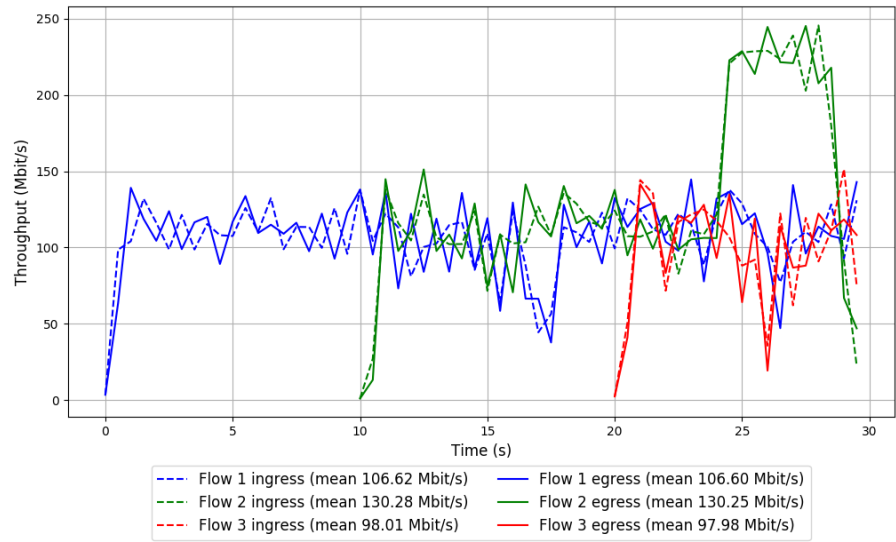
-- Flow 3:

Average throughput: 97.98 Mbit/s

95th percentile per-packet one-way delay: 65.460 ms

Loss rate: 0.00%

# Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2017-12-01 04:24:37

End at: 2017-12-01 04:25:07

# Below is generated by plot.py at 2017-12-01 07:37:27

# Datalink statistics

-- Total of 3 flows:

Average throughput: 265.18 Mbit/s

95th percentile per-packet one-way delay: 54.309 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 146.80 Mbit/s

95th percentile per-packet one-way delay: 53.980 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 118.29 Mbit/s

95th percentile per-packet one-way delay: 54.530 ms

Loss rate: 0.00%

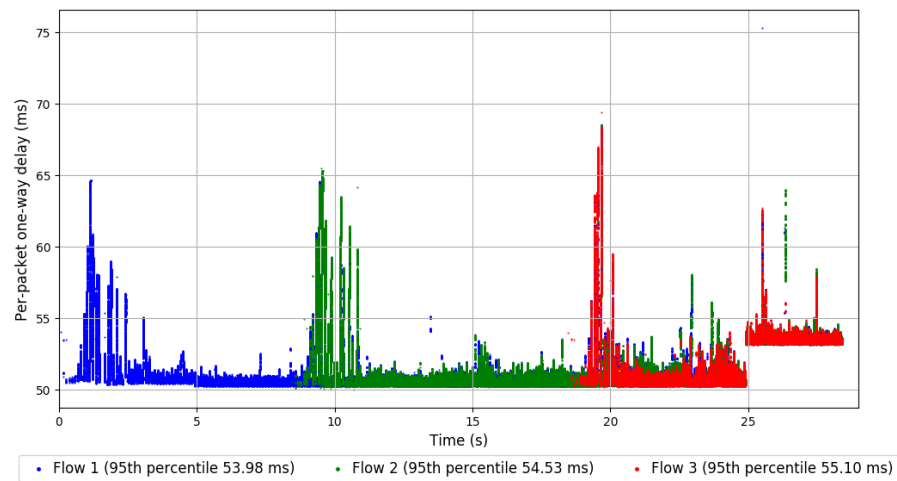
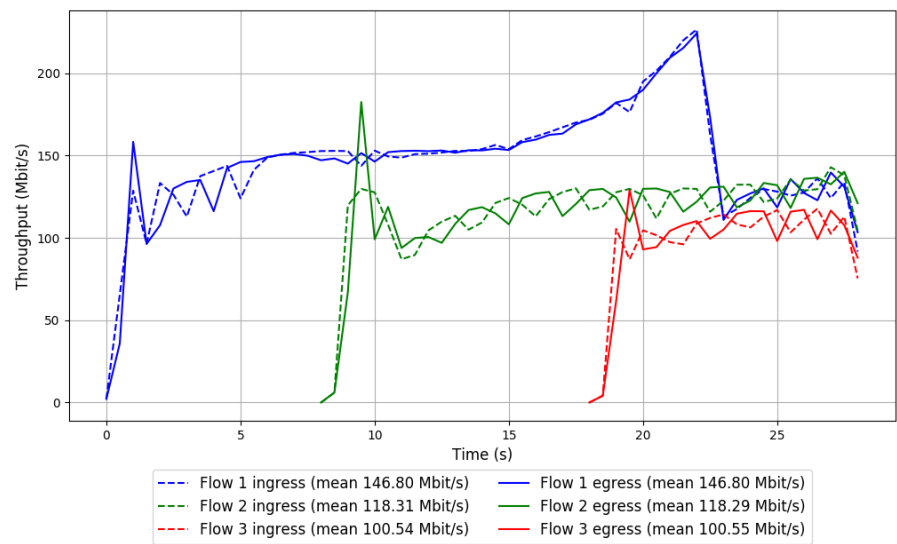
-- Flow 3:

Average throughput: 100.55 Mbit/s

95th percentile per-packet one-way delay: 55.104 ms

Loss rate: 0.00%

Run 1: Report of TCP Cubic — Data Link

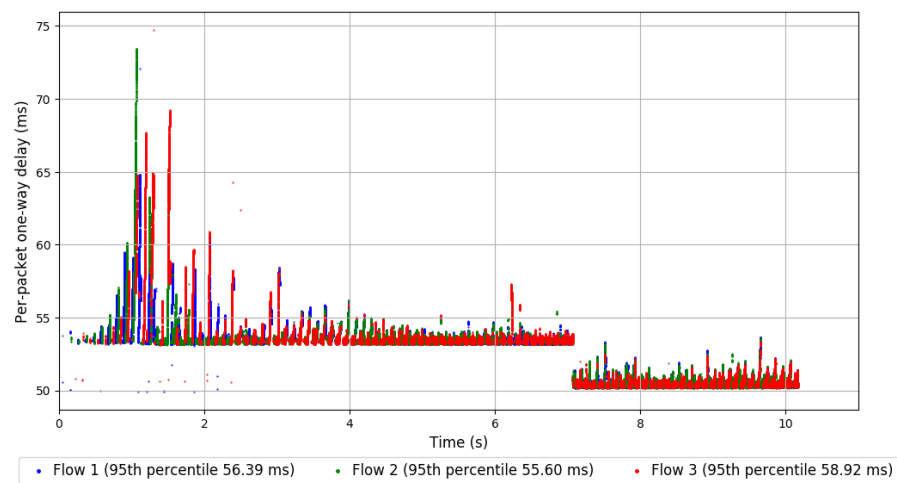
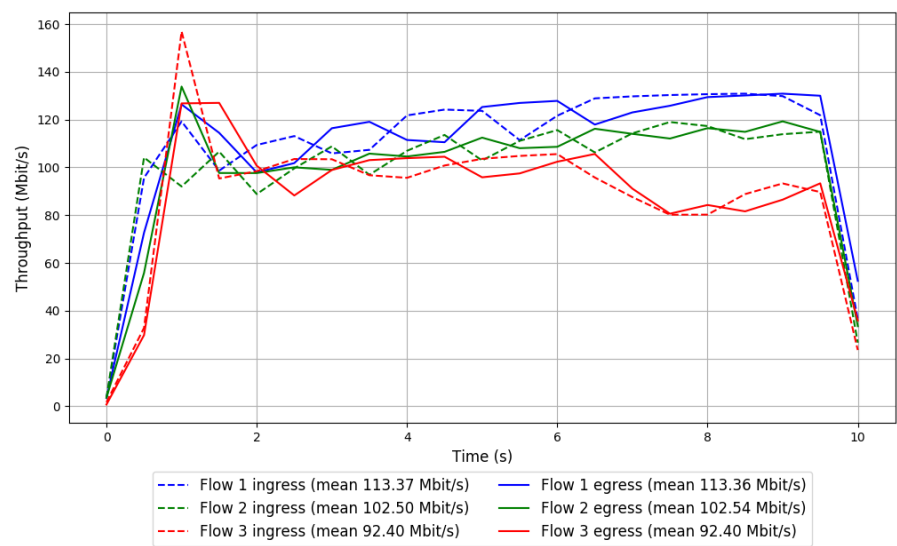


Run 2: Statistics of TCP Cubic

Start at: 2017-12-01 04:36:27

End at: 2017-12-01 04:36:57

Run 2: Report of TCP Cubic — Data Link



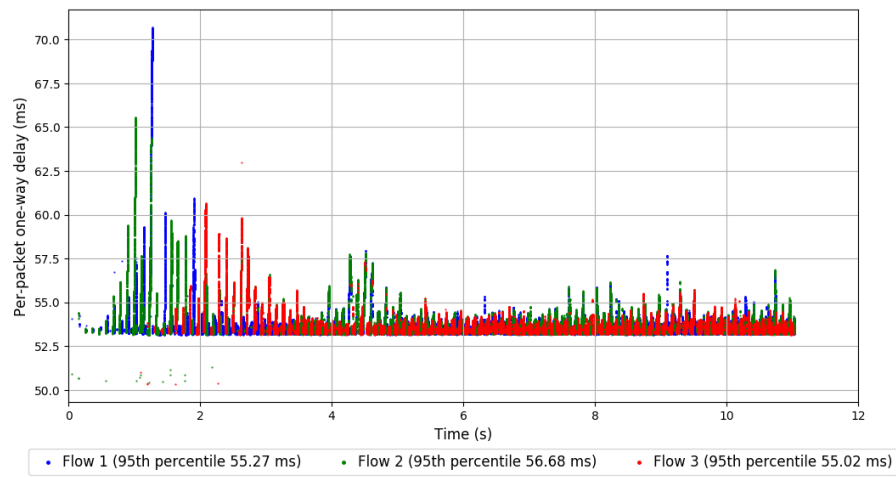
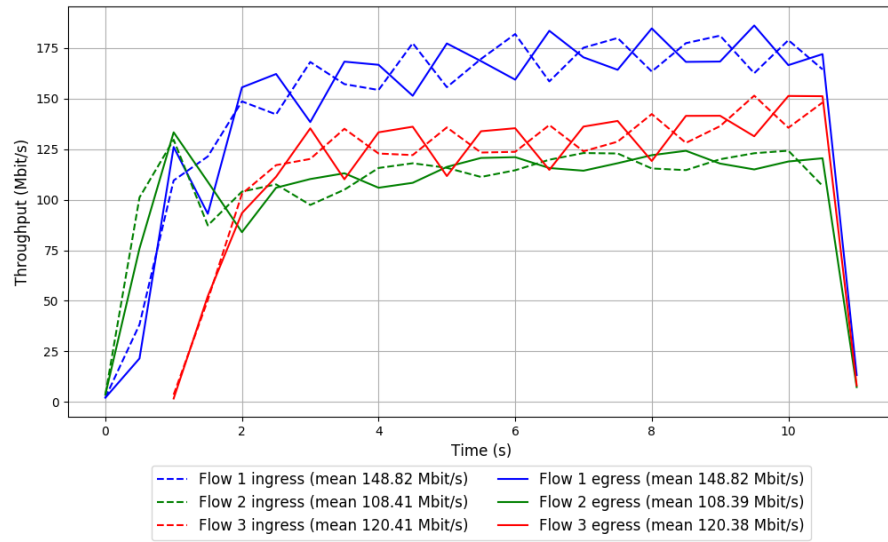
Run 3: Statistics of TCP Cubic

Start at: 2017-12-01 04:48:28

End at: 2017-12-01 04:48:58



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

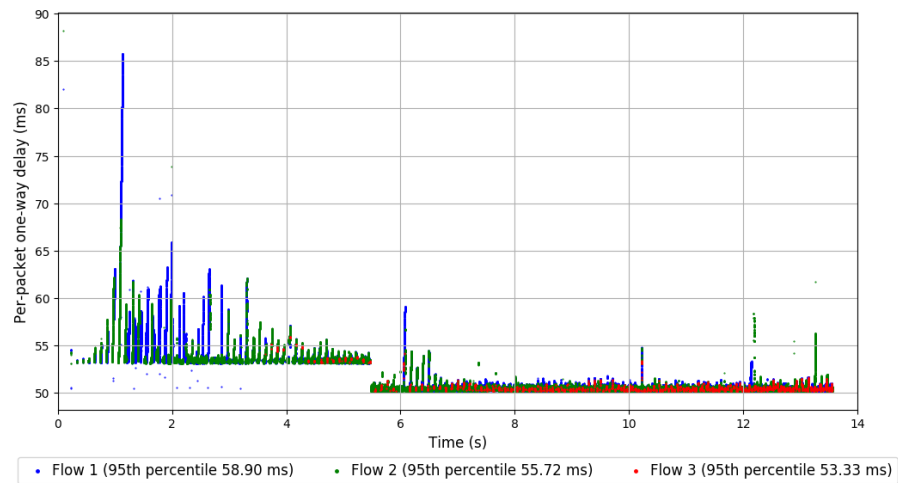
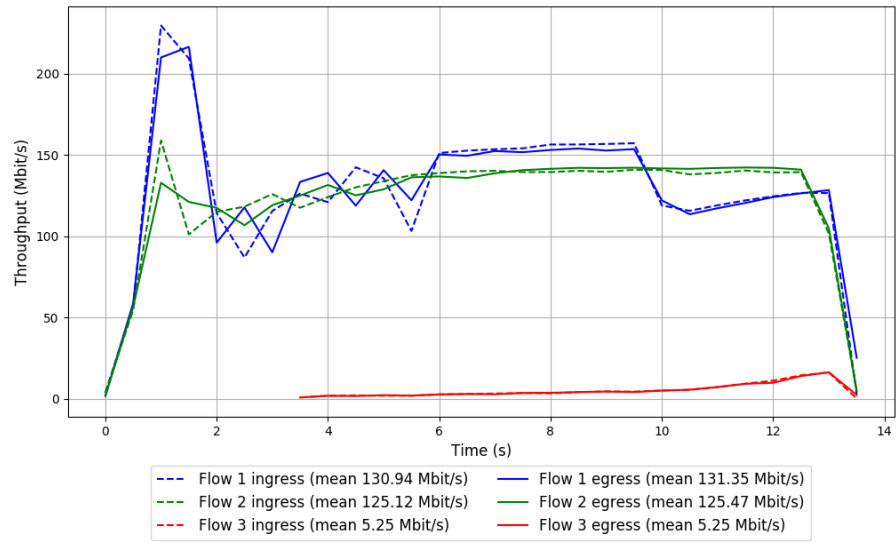


Run 4: Statistics of TCP Cubic

Start at: 2017-12-01 05:00:22

End at: 2017-12-01 05:00:52

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

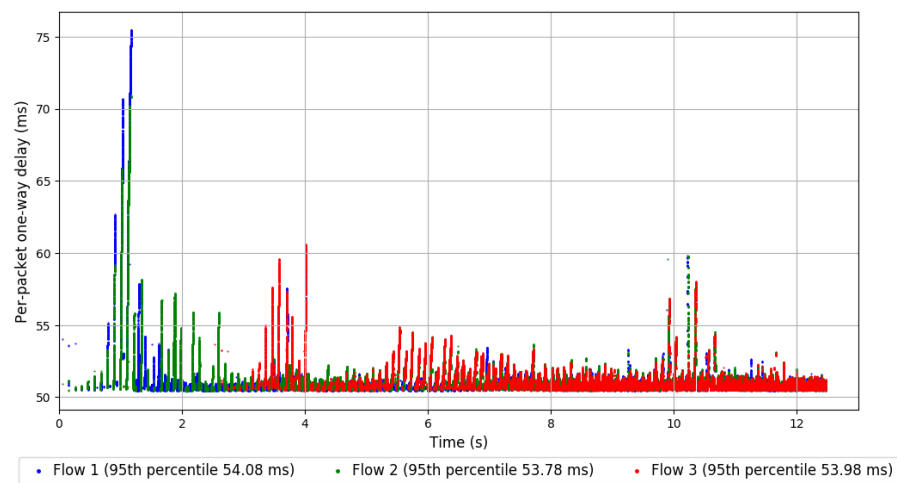
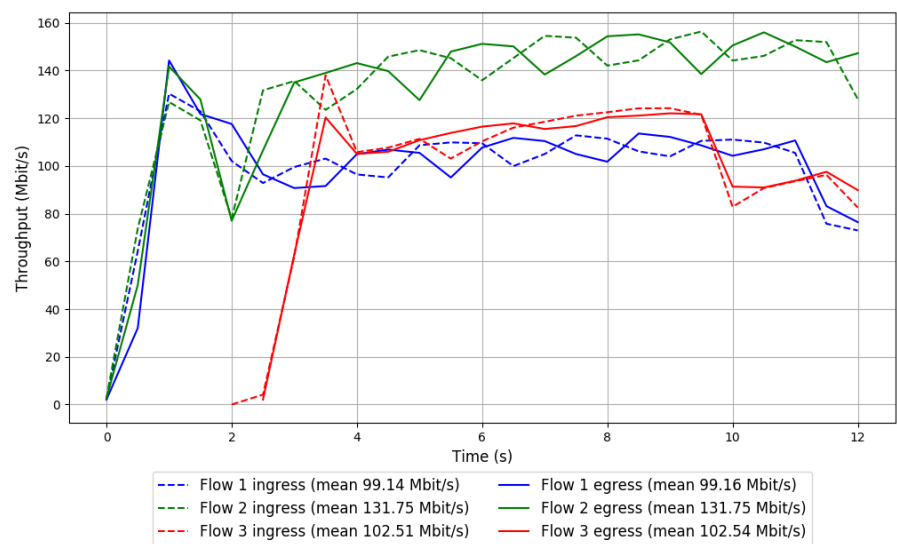


Run 5: Statistics of TCP Cubic

Start at: 2017-12-01 05:12:05

End at: 2017-12-01 05:12:35

Run 5: Report of TCP Cubic — Data Link

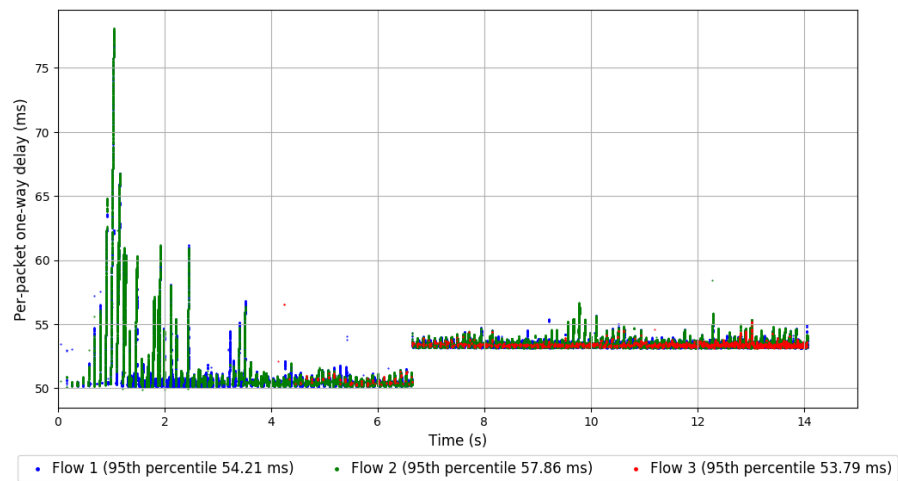
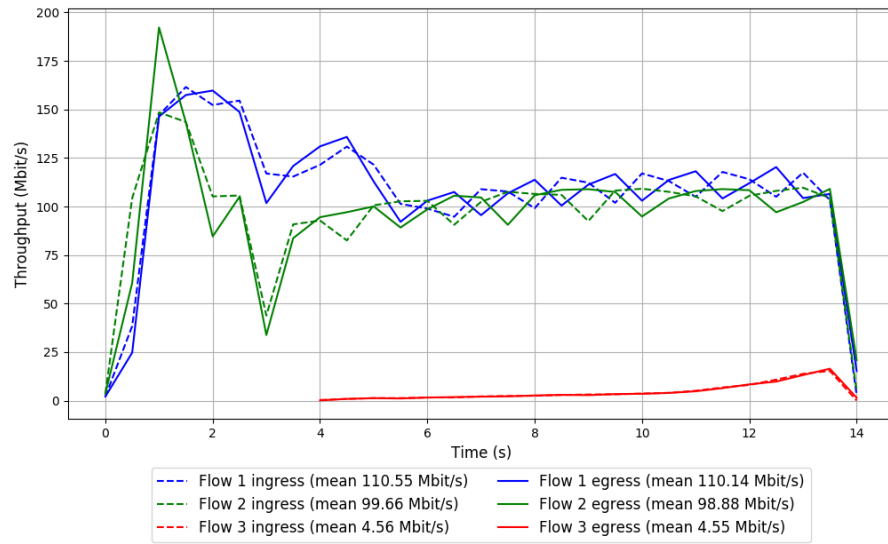


Run 6: Statistics of TCP Cubic

Start at: 2017-12-01 05:23:51

End at: 2017-12-01 05:24:21

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



Run 7: Statistics of TCP Cubic

Start at: 2017-12-01 05:35:45

End at: 2017-12-01 05:36:15

# Below is generated by plot.py at 2017-12-01 07:39:19

# Datalink statistics

-- Total of 3 flows:

Average throughput: 252.85 Mbit/s

95th percentile per-packet one-way delay: 58.023 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 124.95 Mbit/s

95th percentile per-packet one-way delay: 56.977 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 121.69 Mbit/s

95th percentile per-packet one-way delay: 59.316 ms

Loss rate: 0.01%

-- Flow 3:

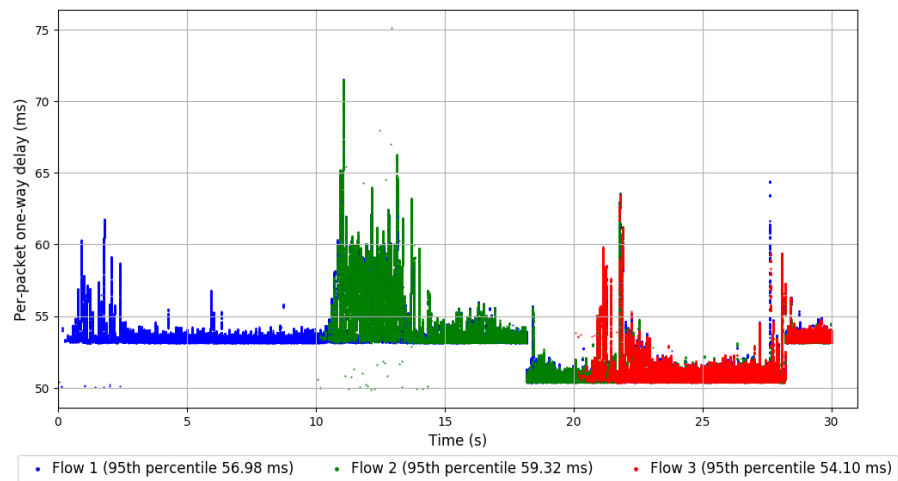
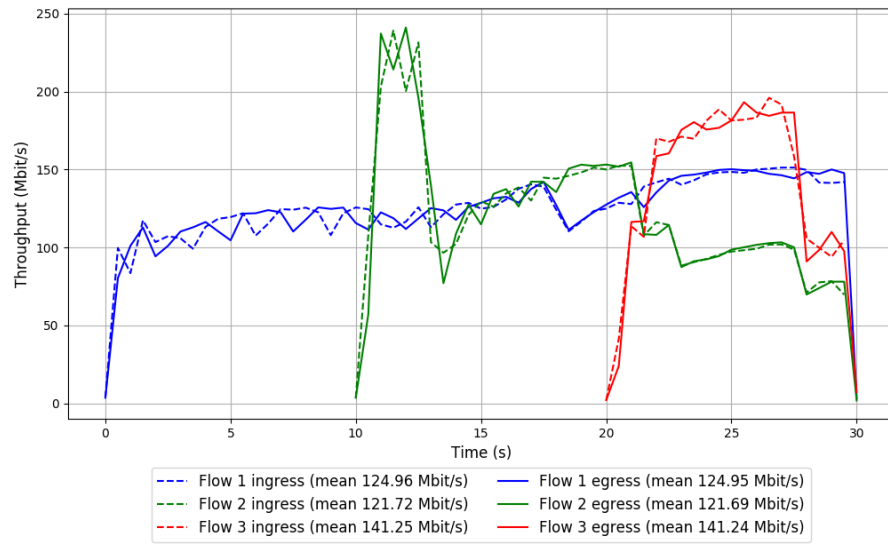
Average throughput: 141.24 Mbit/s

95th percentile per-packet one-way delay: 54.100 ms

Loss rate: 0.00%



# Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2017-12-01 05:48:02

End at: 2017-12-01 05:48:32

# Below is generated by plot.py at 2017-12-01 07:39:19

# Datalink statistics

-- Total of 3 flows:

Average throughput: 199.50 Mbit/s

95th percentile per-packet one-way delay: 59.365 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 78.47 Mbit/s

95th percentile per-packet one-way delay: 58.328 ms

Loss rate: 0.19%

-- Flow 2:

Average throughput: 125.48 Mbit/s

95th percentile per-packet one-way delay: 59.569 ms

Loss rate: 0.00%

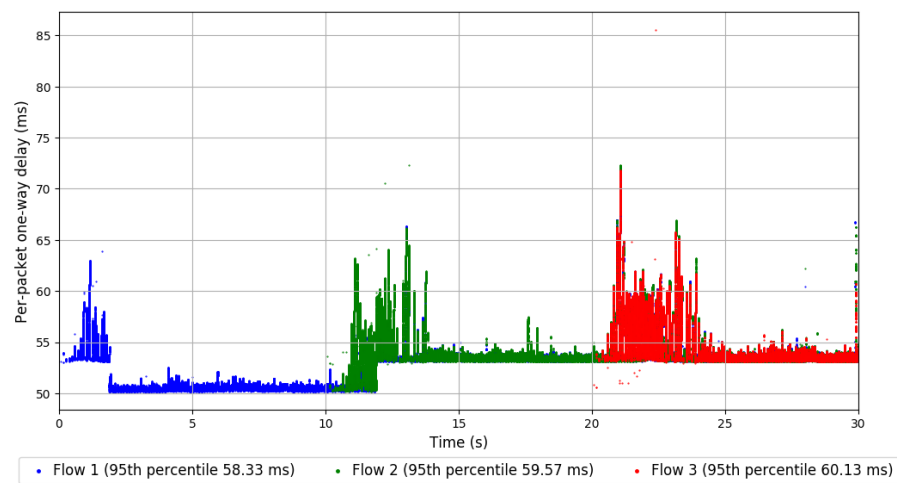
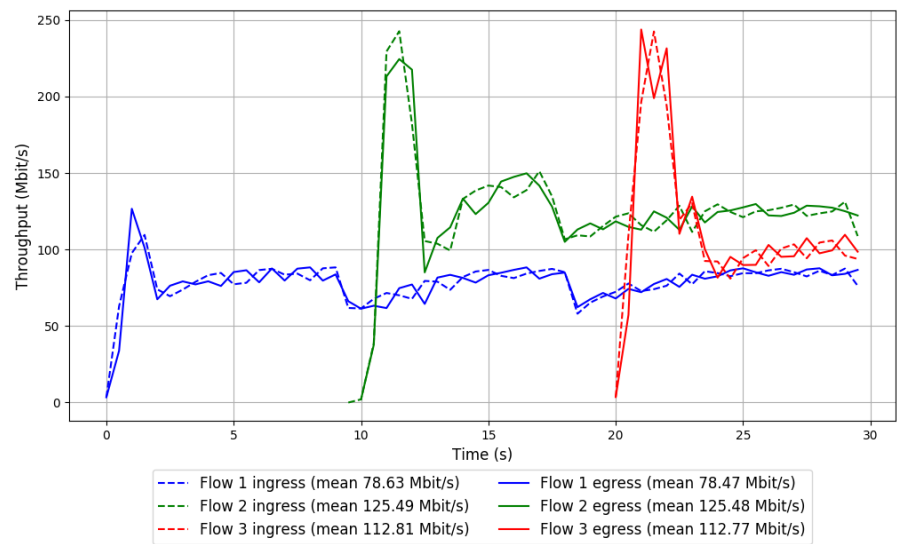
-- Flow 3:

Average throughput: 112.77 Mbit/s

95th percentile per-packet one-way delay: 60.135 ms

Loss rate: 0.00%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2017-12-01 05:59:49

End at: 2017-12-01 06:00:19

# Below is generated by plot.py at 2017-12-01 07:39:19

# Datalink statistics

-- Total of 3 flows:

Average throughput: 176.21 Mbit/s

95th percentile per-packet one-way delay: 55.920 ms

Loss rate: 0.13%

-- Flow 1:

Average throughput: 56.35 Mbit/s

95th percentile per-packet one-way delay: 56.056 ms

Loss rate: 0.42%

-- Flow 2:

Average throughput: 110.60 Mbit/s

95th percentile per-packet one-way delay: 52.111 ms

Loss rate: 0.00%

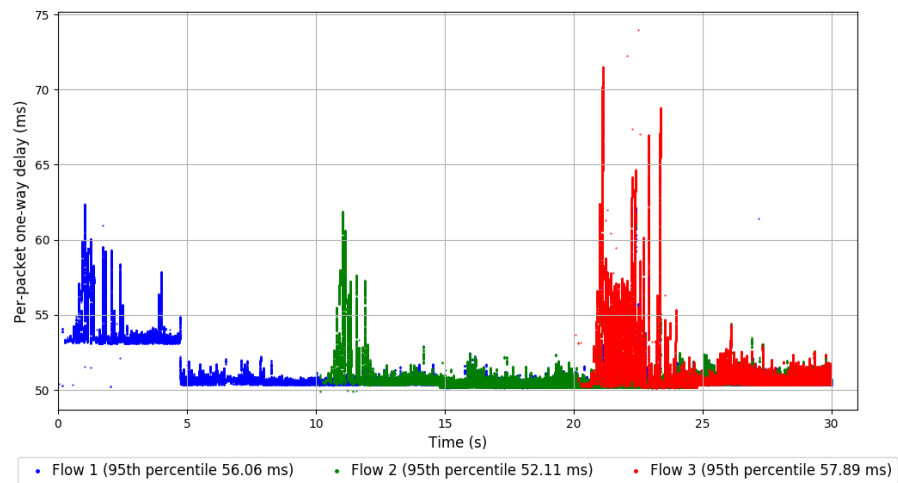
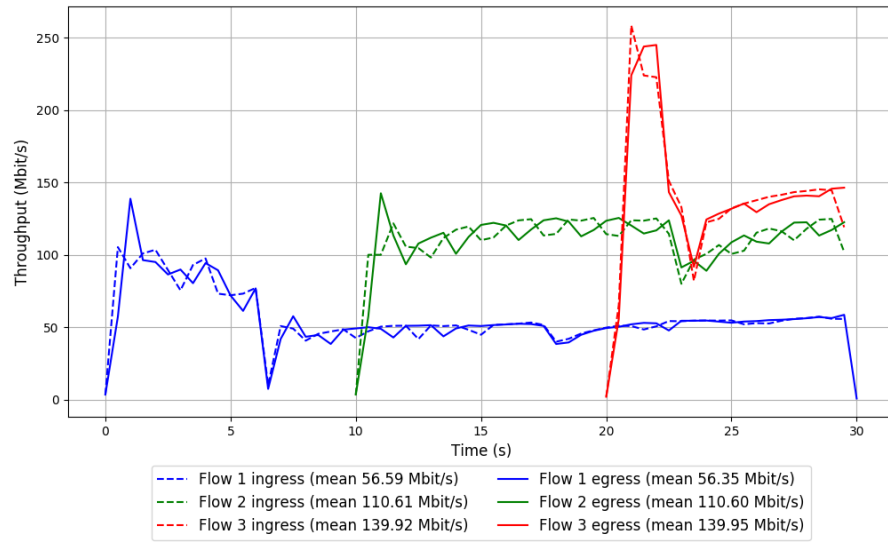
-- Flow 3:

Average throughput: 139.95 Mbit/s

95th percentile per-packet one-way delay: 57.890 ms

Loss rate: 0.00%

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

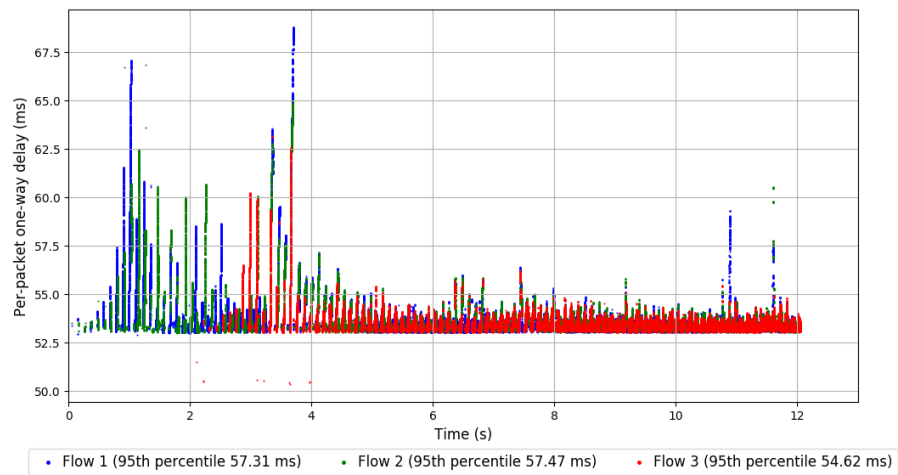
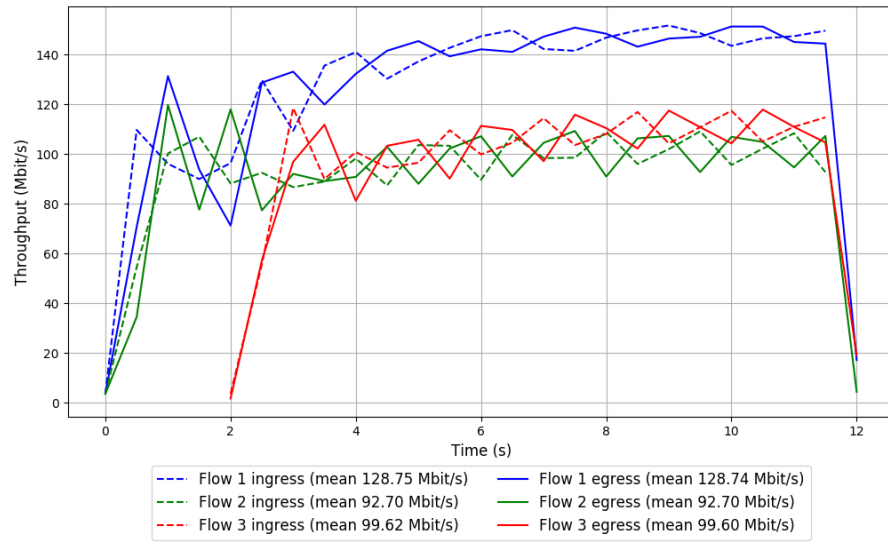


Run 10: Statistics of TCP Cubic

Start at: 2017-12-01 06:12:03

End at: 2017-12-01 06:12:33

# Run 10: Report of TCP Cubic — Data Link



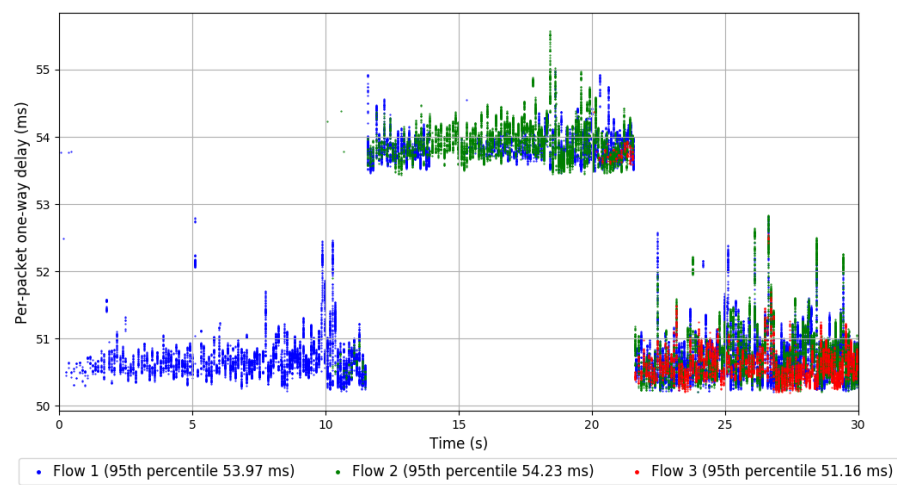
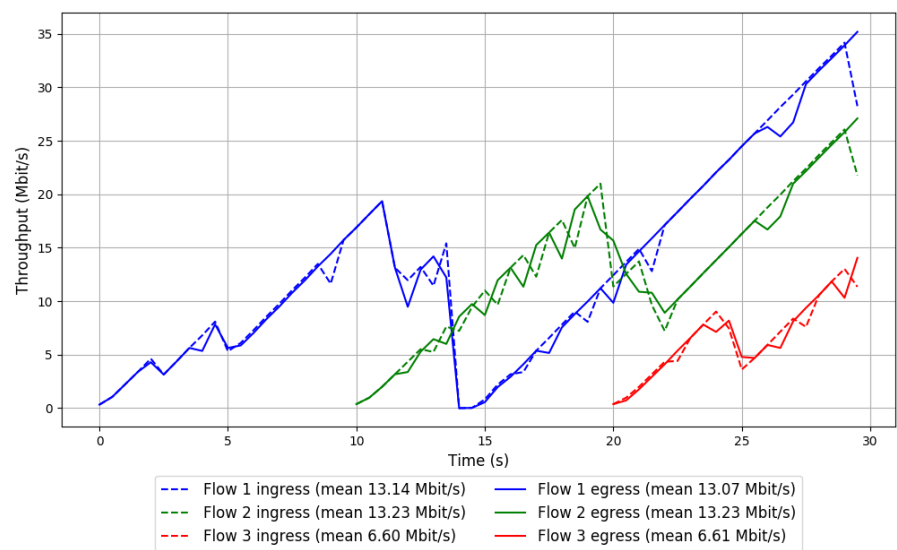
```
Run 1: Statistics of LEDBAT

Start at: 2017-12-01 04:20:32
End at: 2017-12-01 04:21:02

# Below is generated by plot.py at 2017-12-01 07:39:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 24.06 Mbit/s
95th percentile per-packet one-way delay: 54.101 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 13.07 Mbit/s
95th percentile per-packet one-way delay: 53.971 ms
Loss rate: 0.49%
-- Flow 2:
Average throughput: 13.23 Mbit/s
95th percentile per-packet one-way delay: 54.232 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 6.61 Mbit/s
95th percentile per-packet one-way delay: 51.163 ms
Loss rate: 0.00%
```



Run 1: Report of LEDBAT — Data Link

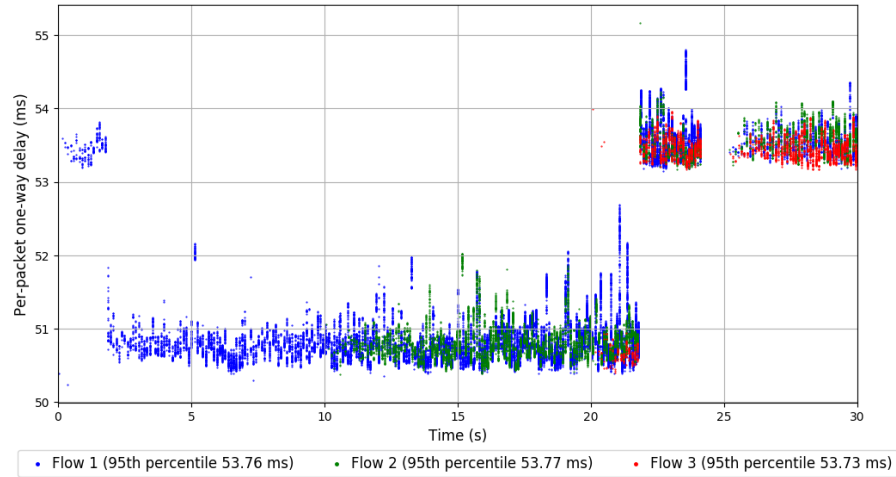
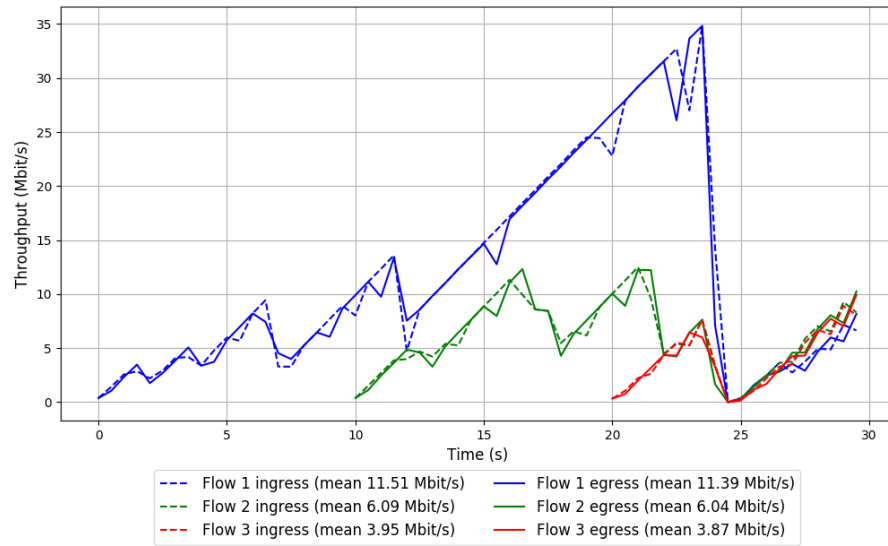


```
Run 2: Statistics of LEDBAT

Start at: 2017-12-01 04:32:22
End at: 2017-12-01 04:32:52

# Below is generated by plot.py at 2017-12-01 07:39:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 16.68 Mbit/s
95th percentile per-packet one-way delay: 53.758 ms
Loss rate: 1.08%
-- Flow 1:
Average throughput: 11.39 Mbit/s
95th percentile per-packet one-way delay: 53.761 ms
Loss rate: 1.06%
-- Flow 2:
Average throughput: 6.04 Mbit/s
95th percentile per-packet one-way delay: 53.769 ms
Loss rate: 0.79%
-- Flow 3:
Average throughput: 3.87 Mbit/s
95th percentile per-packet one-way delay: 53.727 ms
Loss rate: 2.19%
```

## Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2017-12-01 04:44:24

End at: 2017-12-01 04:44:54

# Below is generated by plot.py at 2017-12-01 07:39:19

# Datalink statistics

-- Total of 3 flows:

Average throughput: 24.38 Mbit/s

95th percentile per-packet one-way delay: 53.895 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 11.76 Mbit/s

95th percentile per-packet one-way delay: 53.984 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 13.35 Mbit/s

95th percentile per-packet one-way delay: 53.826 ms

Loss rate: 0.00%

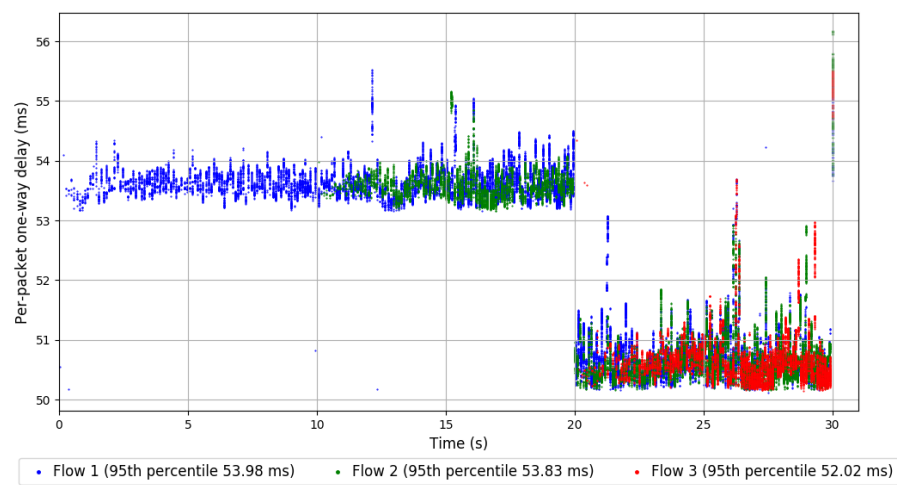
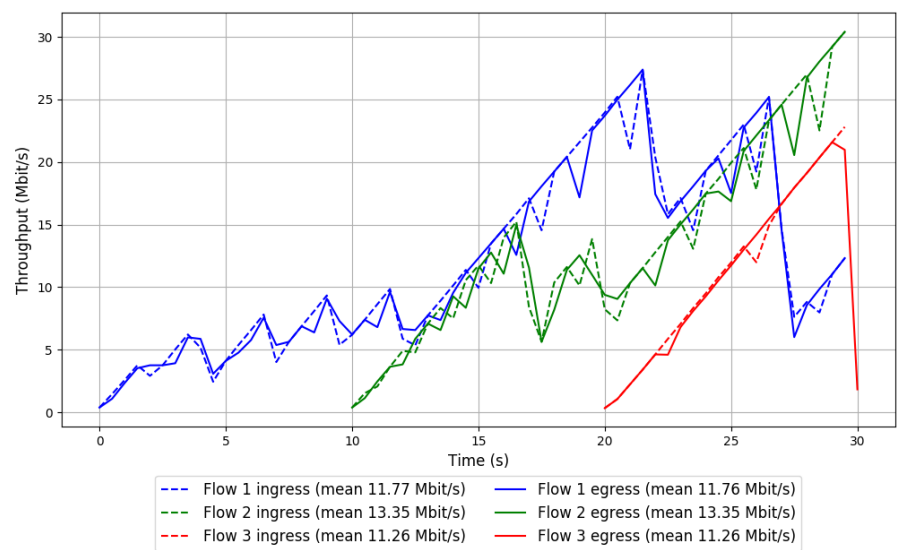
-- Flow 3:

Average throughput: 11.26 Mbit/s

95th percentile per-packet one-way delay: 52.021 ms

Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2017-12-01 04:56:13

End at: 2017-12-01 04:56:43

# Below is generated by plot.py at 2017-12-01 07:39:19

# Datalink statistics

-- Total of 3 flows:

Average throughput: 28.04 Mbit/s

95th percentile per-packet one-way delay: 53.753 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 17.11 Mbit/s

95th percentile per-packet one-way delay: 53.724 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 11.34 Mbit/s

95th percentile per-packet one-way delay: 53.897 ms

Loss rate: 0.00%

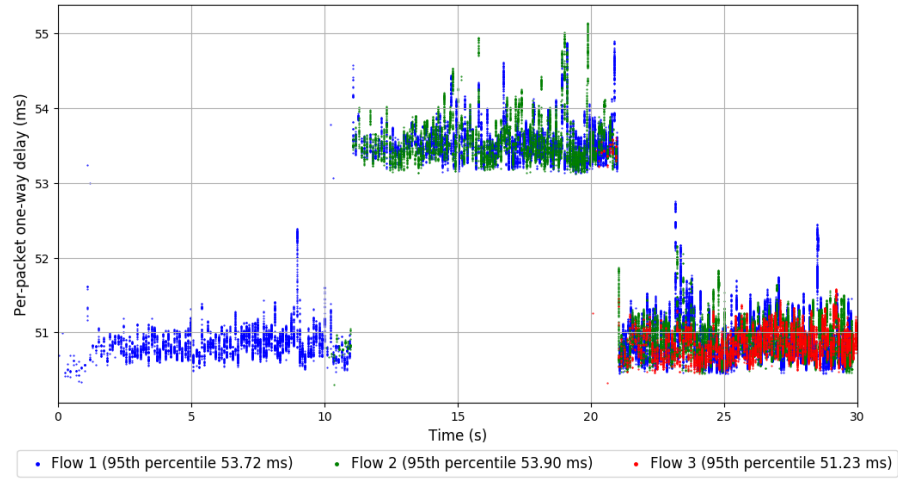
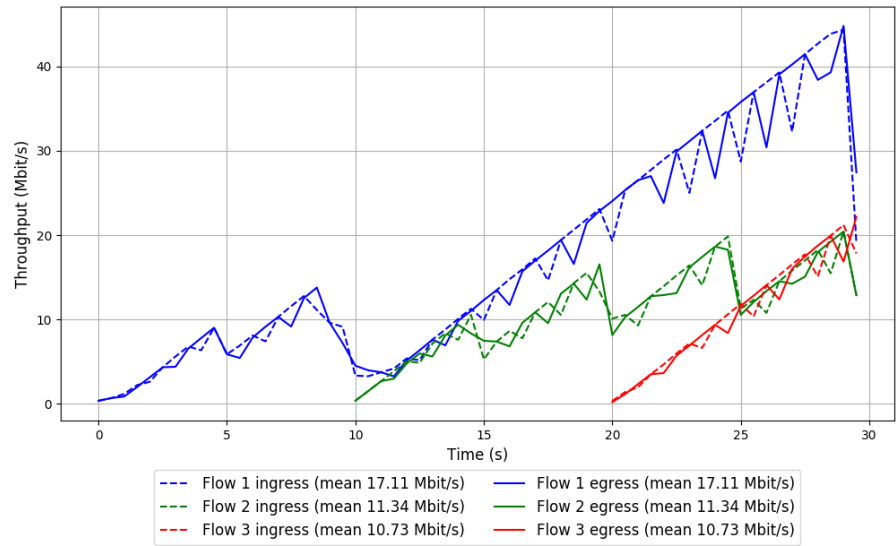
-- Flow 3:

Average throughput: 10.73 Mbit/s

95th percentile per-packet one-way delay: 51.231 ms

Loss rate: 0.00%

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



Run 5: Statistics of LEDBAT

Start at: 2017-12-01 05:07:57

End at: 2017-12-01 05:08:27

# Below is generated by plot.py at 2017-12-01 07:39:19

# Datalink statistics

-- Total of 3 flows:

Average throughput: 21.26 Mbit/s

95th percentile per-packet one-way delay: 54.201 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 12.07 Mbit/s

95th percentile per-packet one-way delay: 54.224 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 8.86 Mbit/s

95th percentile per-packet one-way delay: 54.077 ms

Loss rate: 0.11%

-- Flow 3:

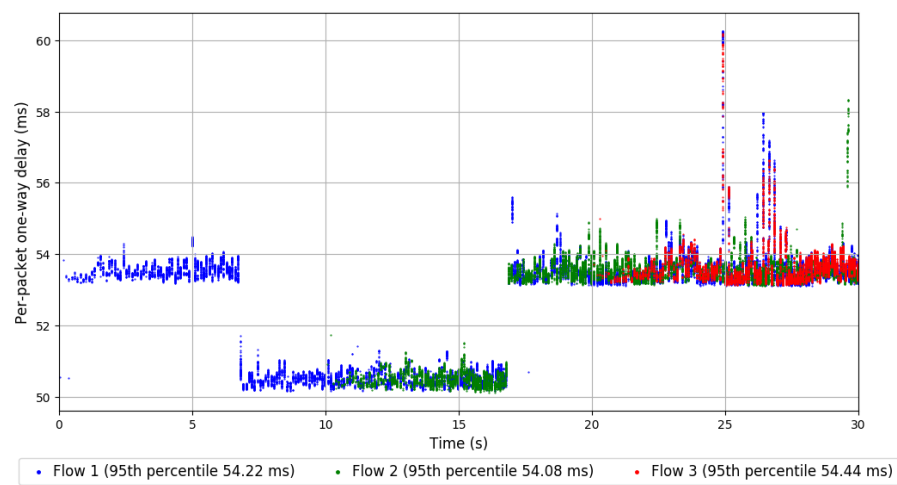
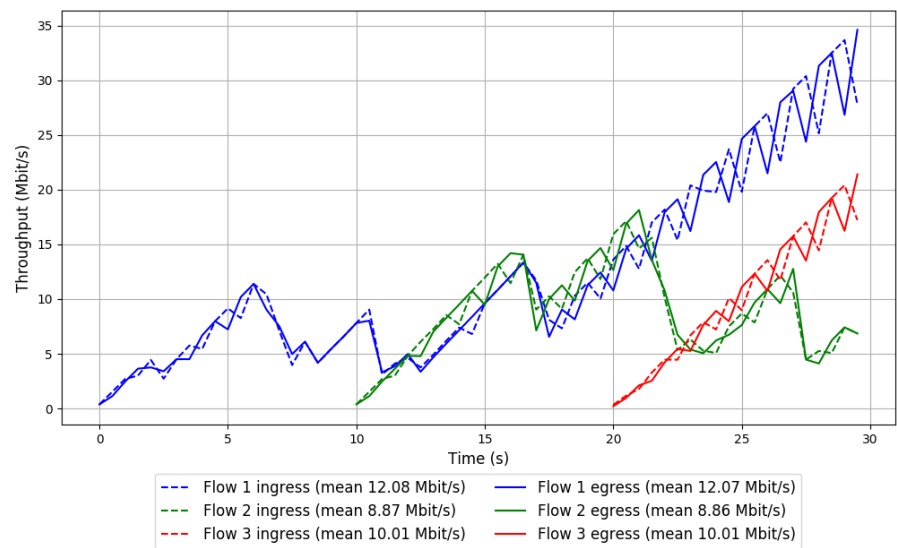
Average throughput: 10.01 Mbit/s

95th percentile per-packet one-way delay: 54.435 ms

Loss rate: 0.00%



Run 5: Report of LEDBAT — Data Link

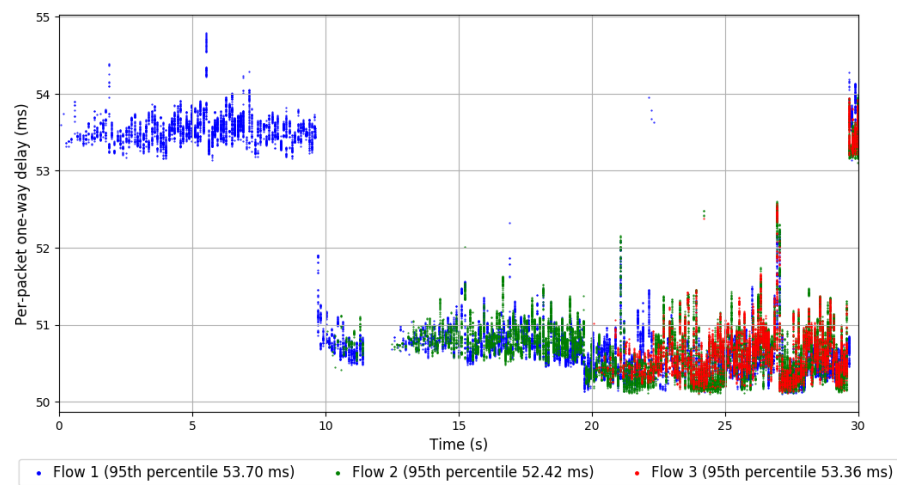
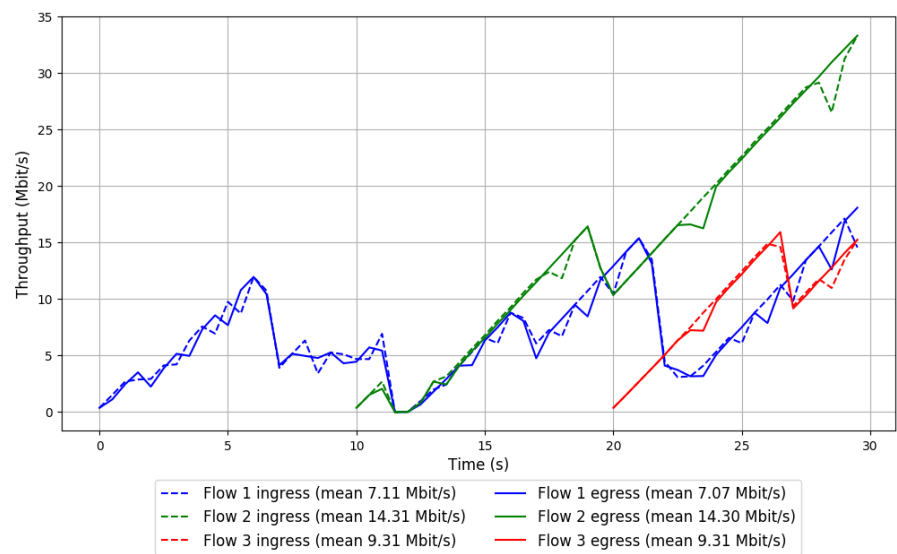


```
Run 6: Statistics of LEDBAT

Start at: 2017-12-01 05:19:44
End at: 2017-12-01 05:20:14

# Below is generated by plot.py at 2017-12-01 07:39:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 19.67 Mbit/s
95th percentile per-packet one-way delay: 53.576 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 7.07 Mbit/s
95th percentile per-packet one-way delay: 53.703 ms
Loss rate: 0.45%
-- Flow 2:
Average throughput: 14.30 Mbit/s
95th percentile per-packet one-way delay: 52.420 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 9.31 Mbit/s
95th percentile per-packet one-way delay: 53.361 ms
Loss rate: 0.00%
```

Run 6: Report of LEDBAT — Data Link

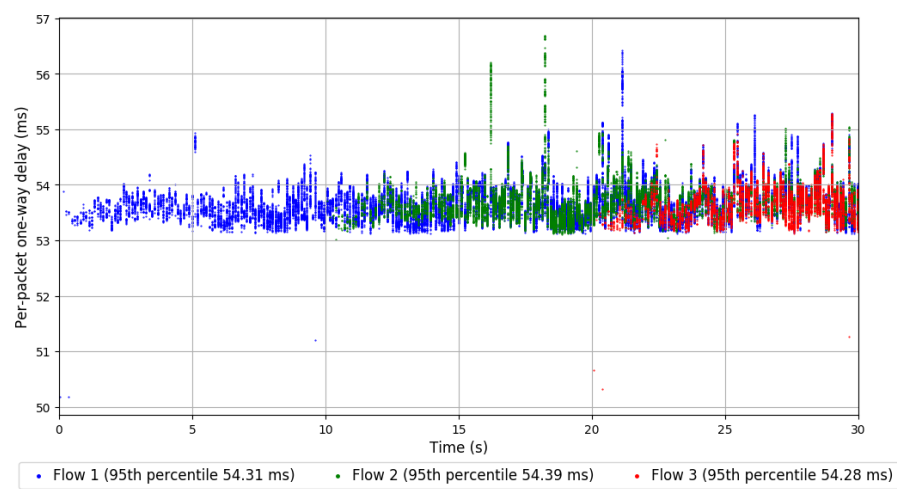
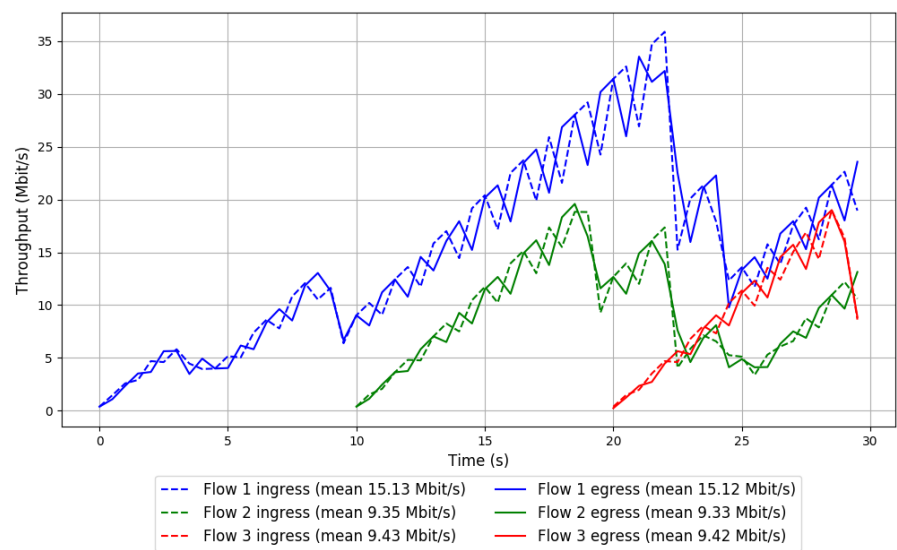


```
Run 7: Statistics of LEDBAT

Start at: 2017-12-01 05:31:48
End at: 2017-12-01 05:32:18

# Below is generated by plot.py at 2017-12-01 07:39:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 24.45 Mbit/s
95th percentile per-packet one-way delay: 54.325 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 15.12 Mbit/s
95th percentile per-packet one-way delay: 54.308 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 9.33 Mbit/s
95th percentile per-packet one-way delay: 54.390 ms
Loss rate: 0.18%
-- Flow 3:
Average throughput: 9.42 Mbit/s
95th percentile per-packet one-way delay: 54.280 ms
Loss rate: 0.06%
```

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2017-12-01 05:43:56

End at: 2017-12-01 05:44:26

# Below is generated by plot.py at 2017-12-01 07:39:19

# Datalink statistics

-- Total of 3 flows:

Average throughput: 22.03 Mbit/s

95th percentile per-packet one-way delay: 54.016 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 9.71 Mbit/s

95th percentile per-packet one-way delay: 53.961 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 14.58 Mbit/s

95th percentile per-packet one-way delay: 54.017 ms

Loss rate: 0.06%

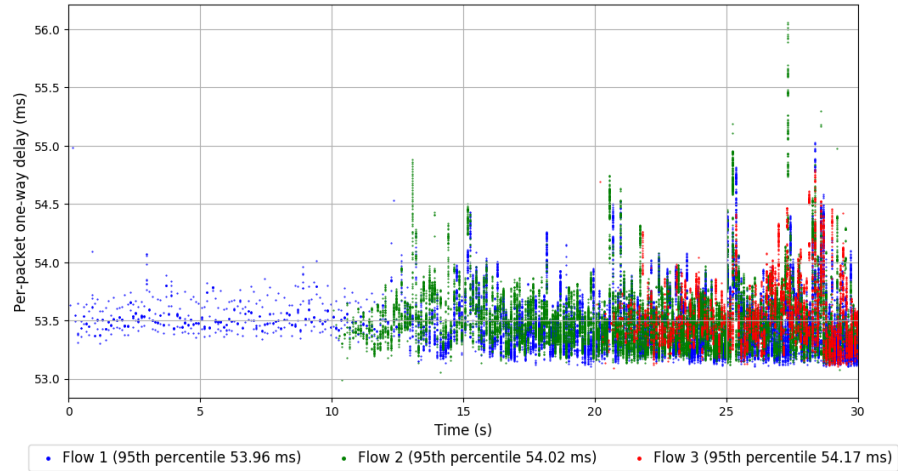
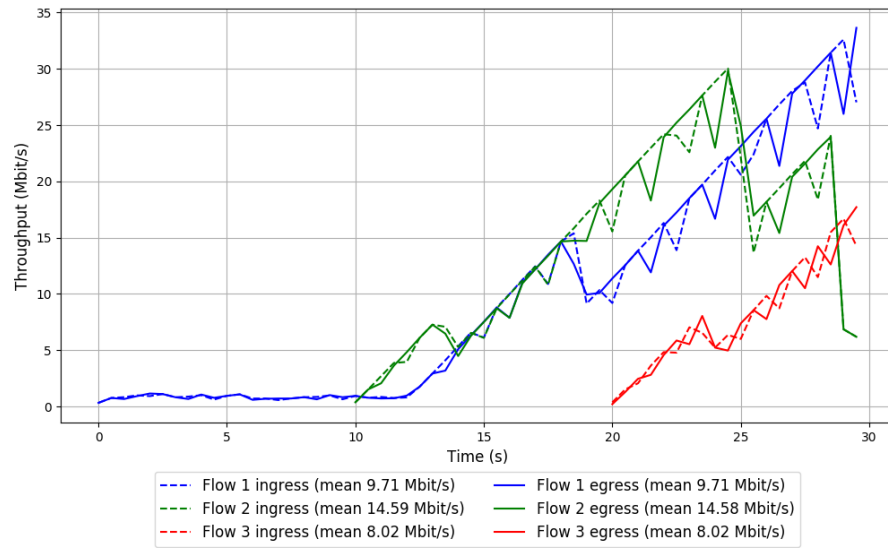
-- Flow 3:

Average throughput: 8.02 Mbit/s

95th percentile per-packet one-way delay: 54.169 ms

Loss rate: 0.00%

## Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2017-12-01 05:55:41

End at: 2017-12-01 05:56:11

# Below is generated by plot.py at 2017-12-01 07:39:19

# Datalink statistics

-- Total of 3 flows:

Average throughput: 27.07 Mbit/s

95th percentile per-packet one-way delay: 54.276 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 16.81 Mbit/s

95th percentile per-packet one-way delay: 54.089 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 10.15 Mbit/s

95th percentile per-packet one-way delay: 54.443 ms

Loss rate: 0.01%

-- Flow 3:

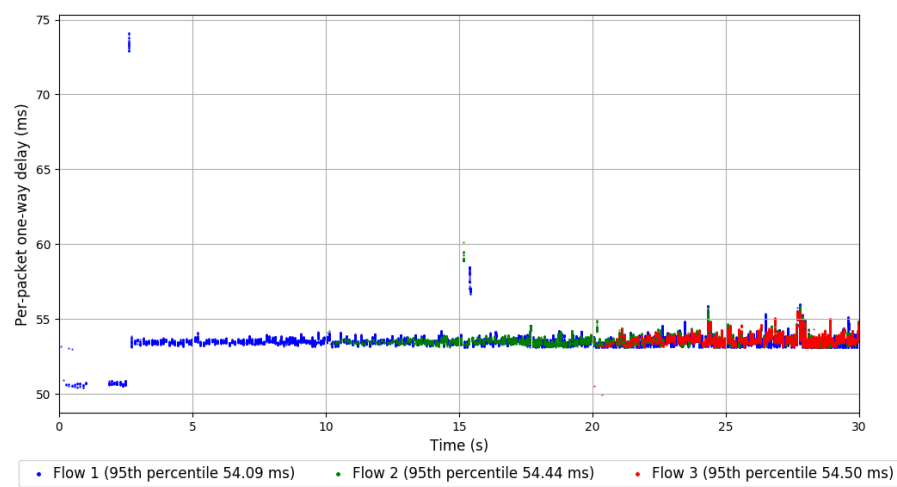
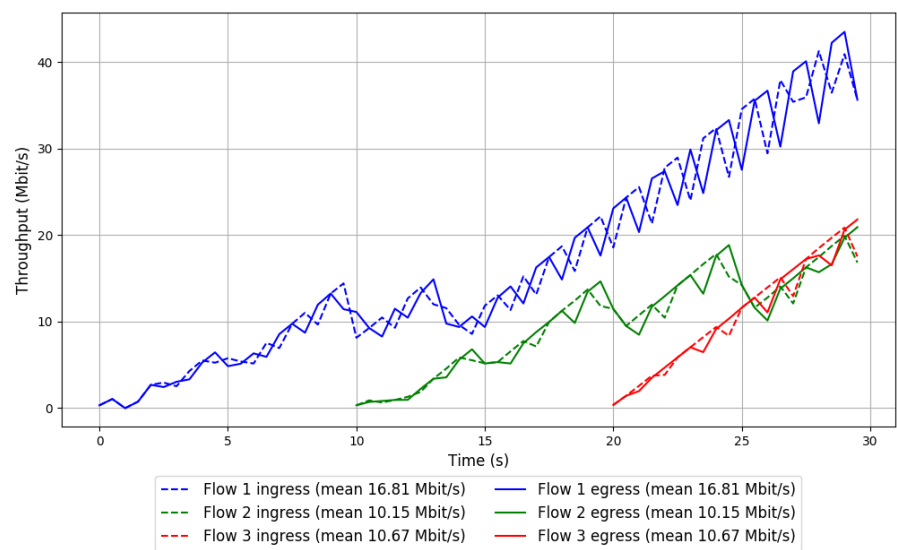
Average throughput: 10.67 Mbit/s

95th percentile per-packet one-way delay: 54.503 ms

Loss rate: 0.00%



Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2017-12-01 06:07:58

End at: 2017-12-01 06:08:28

# Below is generated by plot.py at 2017-12-01 07:39:19

# Datalink statistics

-- Total of 3 flows:

Average throughput: 19.19 Mbit/s

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

Loss rate: 0.07%

-- Flow 1:

Average throughput: 13.25 Mbit/s

95th percentile per-packet one-way delay: 54.011 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 4.84 Mbit/s

95th percentile per-packet one-way delay: 53.785 ms

Loss rate: 0.00%

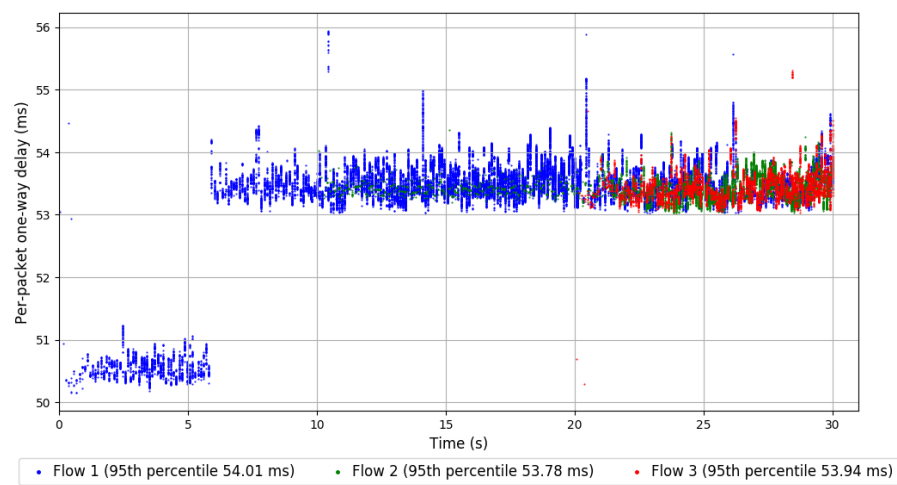
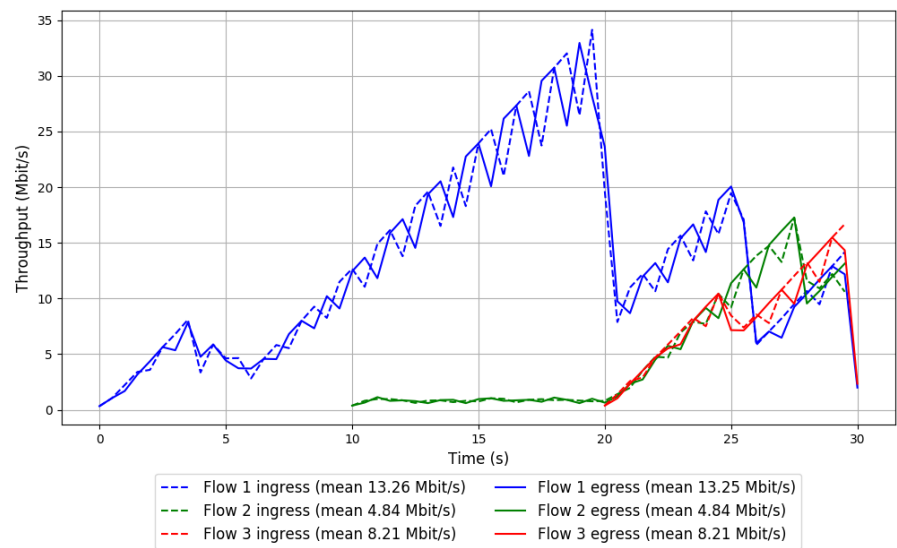
-- Flow 3:

Average throughput: 8.21 Mbit/s

95th percentile per-packet one-way delay: 53.936 ms

Loss rate: 0.00%

Run 10: Report of LEDBAT — Data Link

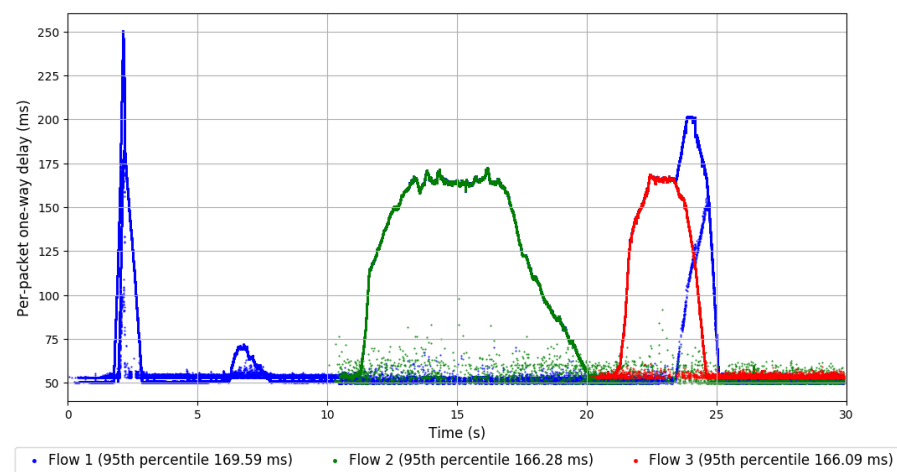
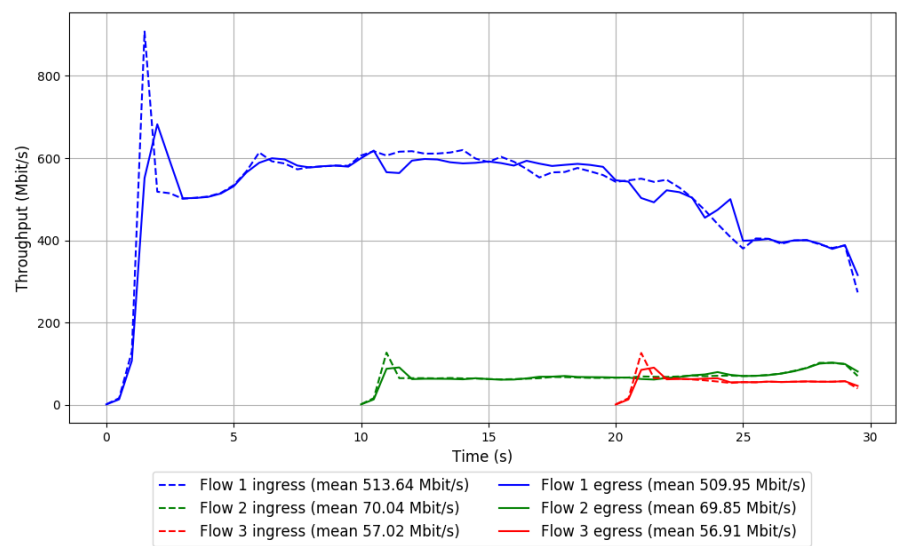


```
Run 1: Statistics of PCC

Start at: 2017-12-01 04:21:53
End at: 2017-12-01 04:22:23

# Below is generated by plot.py at 2017-12-01 07:47:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 575.07 Mbit/s
95th percentile per-packet one-way delay: 168.495 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 509.95 Mbit/s
95th percentile per-packet one-way delay: 169.587 ms
Loss rate: 0.72%
-- Flow 2:
Average throughput: 69.85 Mbit/s
95th percentile per-packet one-way delay: 166.279 ms
Loss rate: 0.29%
-- Flow 3:
Average throughput: 56.91 Mbit/s
95th percentile per-packet one-way delay: 166.089 ms
Loss rate: 0.19%
```

Run 1: Report of PCC — Data Link

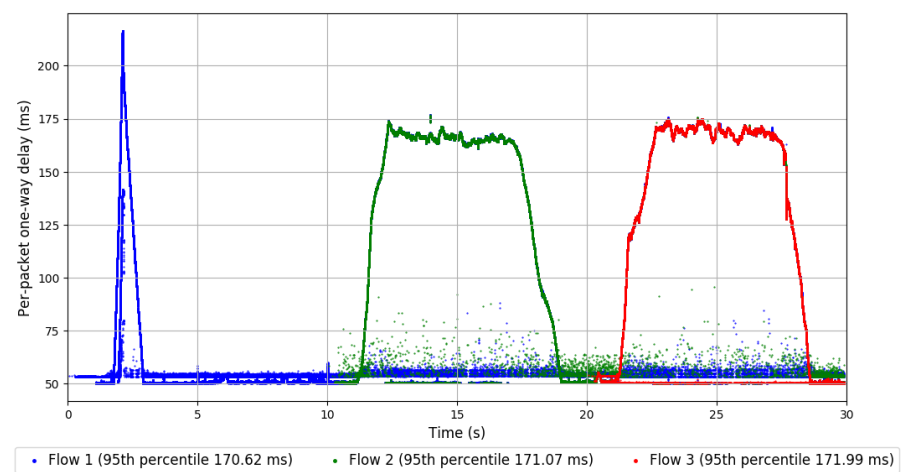
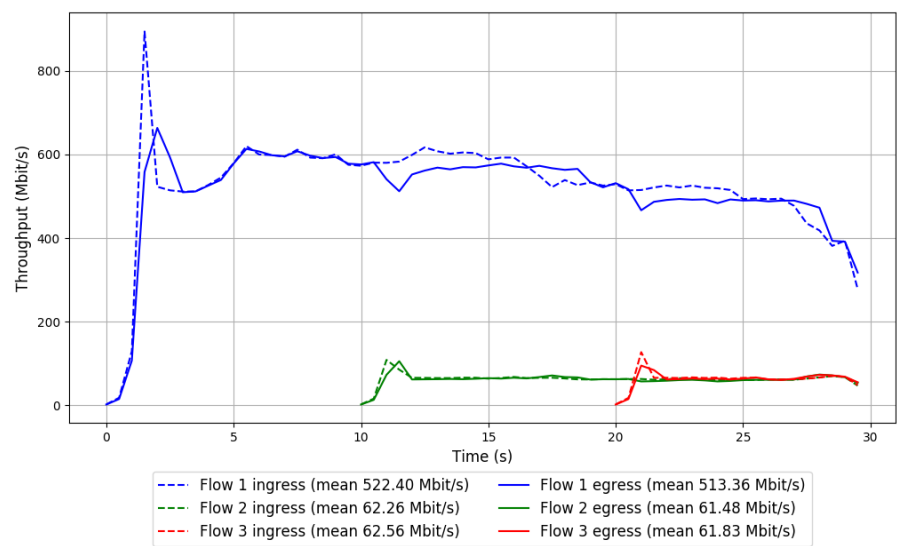


```
Run 2: Statistics of PCC

Start at: 2017-12-01 04:33:42
End at: 2017-12-01 04:34:12

# Below is generated by plot.py at 2017-12-01 07:47:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 574.58 Mbit/s
95th percentile per-packet one-way delay: 170.722 ms
Loss rate: 1.70%
-- Flow 1:
Average throughput: 513.36 Mbit/s
95th percentile per-packet one-way delay: 170.625 ms
Loss rate: 1.75%
-- Flow 2:
Average throughput: 61.48 Mbit/s
95th percentile per-packet one-way delay: 171.070 ms
Loss rate: 1.31%
-- Flow 3:
Average throughput: 61.83 Mbit/s
95th percentile per-packet one-way delay: 171.991 ms
Loss rate: 1.19%
```

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2017-12-01 04:45:45

End at: 2017-12-01 04:46:15

# Below is generated by plot.py at 2017-12-01 07:47:42

# Datalink statistics

-- Total of 3 flows:

Average throughput: 574.27 Mbit/s

95th percentile per-packet one-way delay: 169.821 ms

Loss rate: 0.41%

-- Flow 1:

Average throughput: 531.44 Mbit/s

95th percentile per-packet one-way delay: 169.551 ms

Loss rate: 0.41%

-- Flow 2:

Average throughput: 33.22 Mbit/s

95th percentile per-packet one-way delay: 170.472 ms

Loss rate: 0.30%

-- Flow 3:

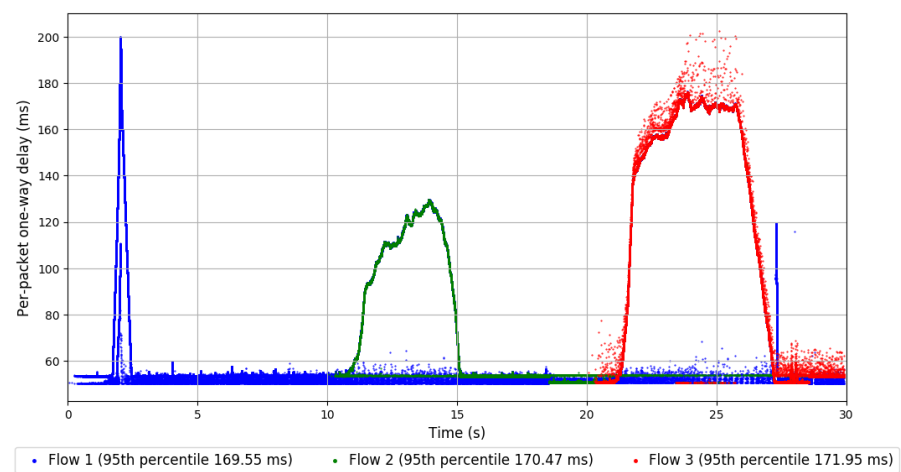
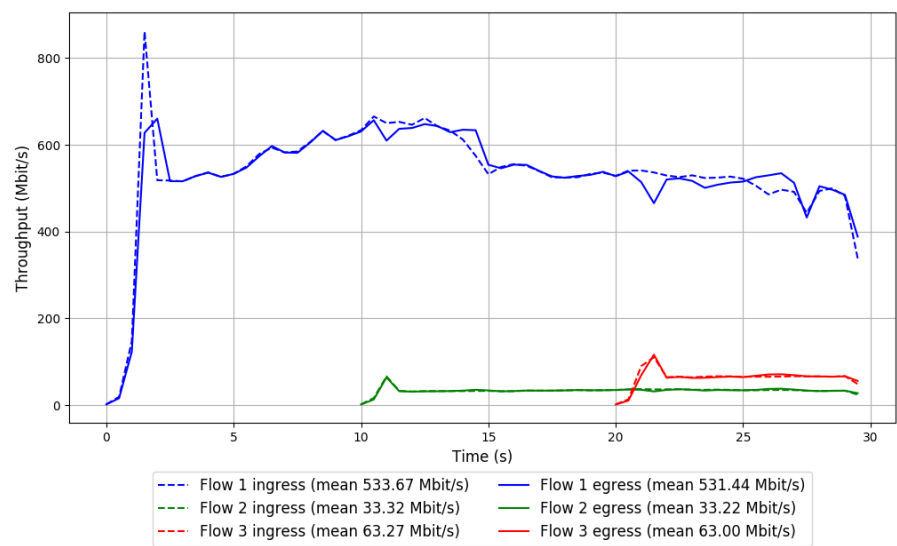
Average throughput: 63.00 Mbit/s

95th percentile per-packet one-way delay: 171.948 ms

Loss rate: 0.45%



Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2017-12-01 04:57:34

End at: 2017-12-01 04:58:04

# Below is generated by plot.py at 2017-12-01 07:47:42

# Datalink statistics

-- Total of 3 flows:

Average throughput: 558.07 Mbit/s

95th percentile per-packet one-way delay: 168.870 ms

Loss rate: 0.60%

-- Flow 1:

Average throughput: 553.84 Mbit/s

95th percentile per-packet one-way delay: 168.872 ms

Loss rate: 0.60%

-- Flow 2:

Average throughput: 4.16 Mbit/s

95th percentile per-packet one-way delay: 168.985 ms

Loss rate: 0.49%

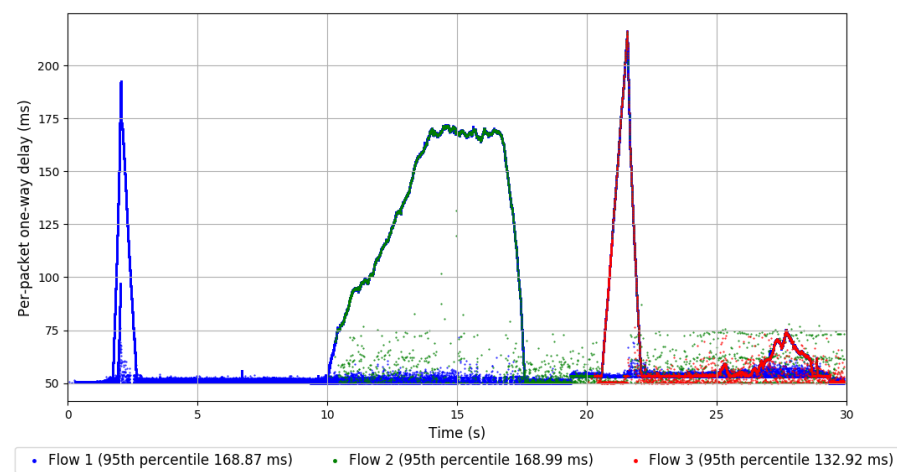
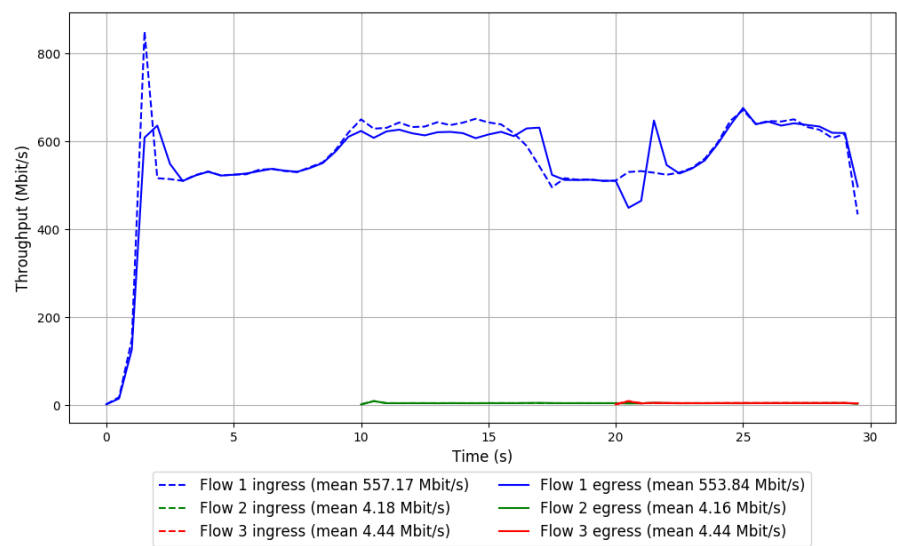
-- Flow 3:

Average throughput: 4.44 Mbit/s

95th percentile per-packet one-way delay: 132.922 ms

Loss rate: 0.19%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2017-12-01 05:09:17

End at: 2017-12-01 05:09:47

# Below is generated by plot.py at 2017-12-01 07:48:02

# Datalink statistics

-- Total of 3 flows:

Average throughput: 579.88 Mbit/s

95th percentile per-packet one-way delay: 108.425 ms

Loss rate: 0.19%

-- Flow 1:

Average throughput: 545.82 Mbit/s

95th percentile per-packet one-way delay: 108.625 ms

Loss rate: 0.20%

-- Flow 2:

Average throughput: 49.07 Mbit/s

95th percentile per-packet one-way delay: 106.269 ms

Loss rate: 0.01%

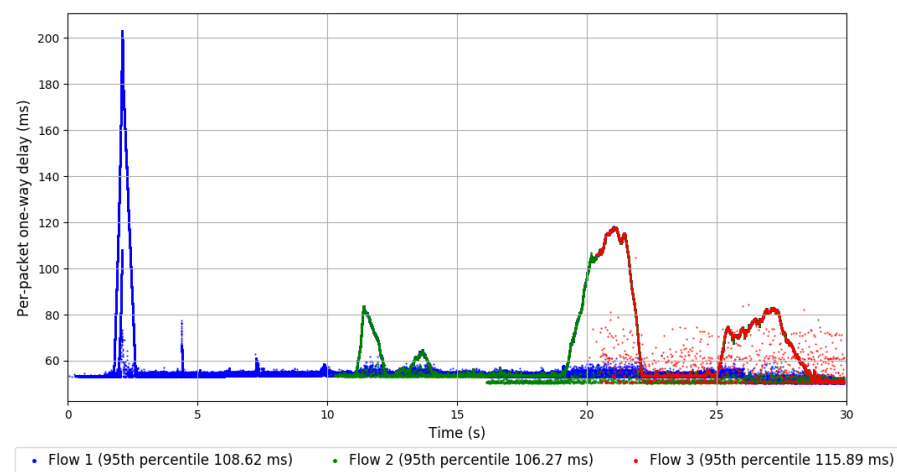
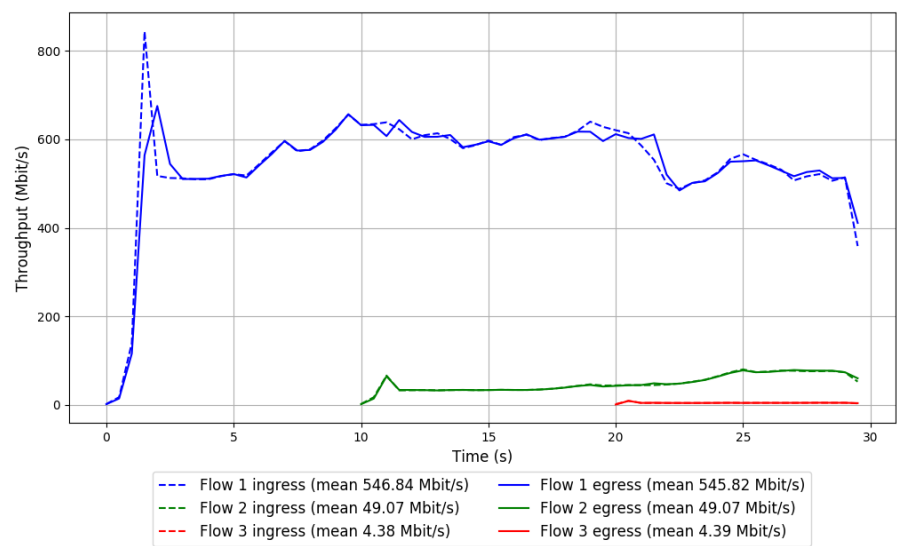
-- Flow 3:

Average throughput: 4.39 Mbit/s

95th percentile per-packet one-way delay: 115.887 ms

Loss rate: 0.00%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2017-12-01 05:21:05

End at: 2017-12-01 05:21:35

# Below is generated by plot.py at 2017-12-01 07:48:14

# Datalink statistics

-- Total of 3 flows:

Average throughput: 575.19 Mbit/s

95th percentile per-packet one-way delay: 168.593 ms

Loss rate: 1.03%

-- Flow 1:

Average throughput: 531.33 Mbit/s

95th percentile per-packet one-way delay: 168.576 ms

Loss rate: 1.05%

-- Flow 2:

Average throughput: 63.85 Mbit/s

95th percentile per-packet one-way delay: 168.751 ms

Loss rate: 0.79%

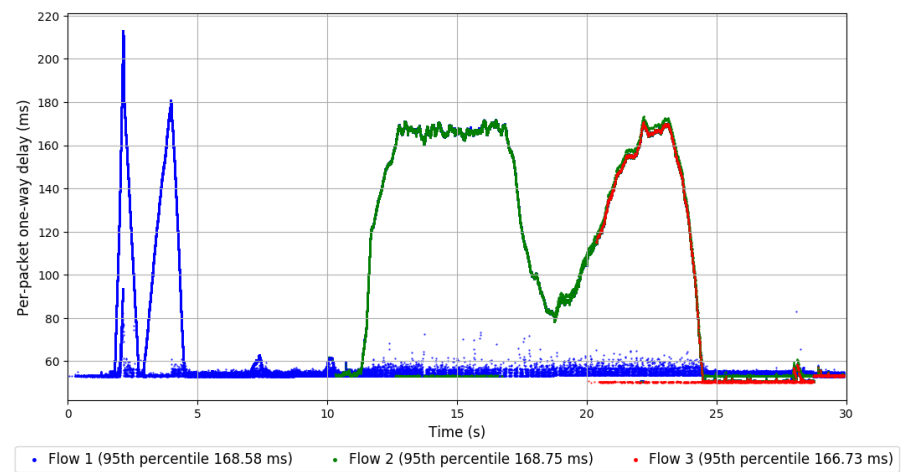
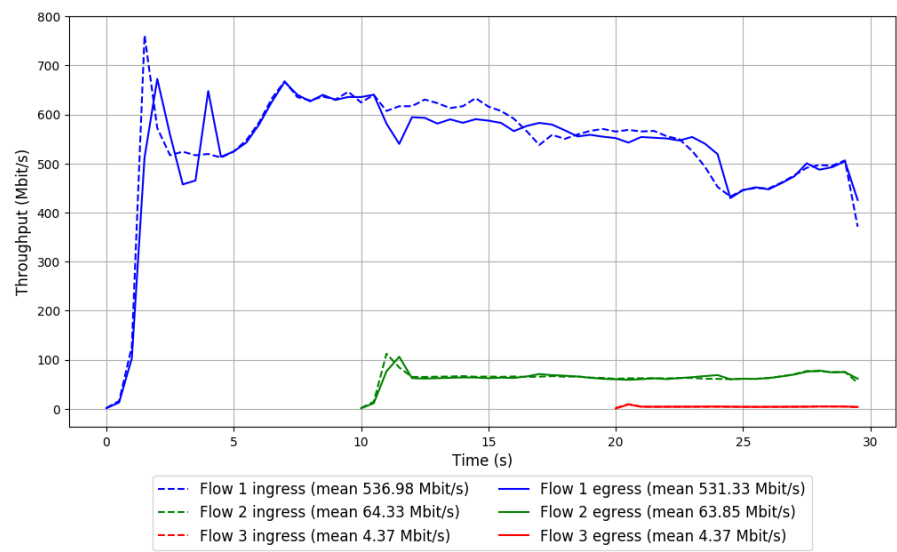
-- Flow 3:

Average throughput: 4.37 Mbit/s

95th percentile per-packet one-way delay: 166.727 ms

Loss rate: 0.00%

Run 6: Report of PCC — Data Link



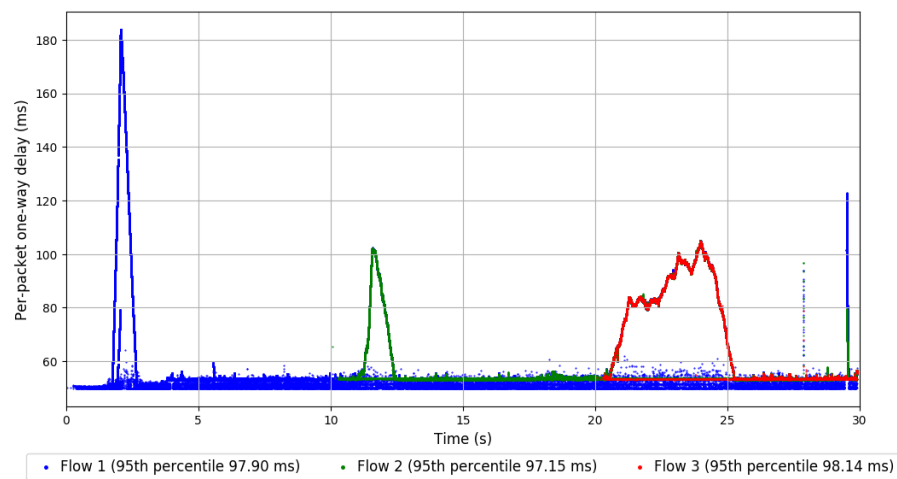
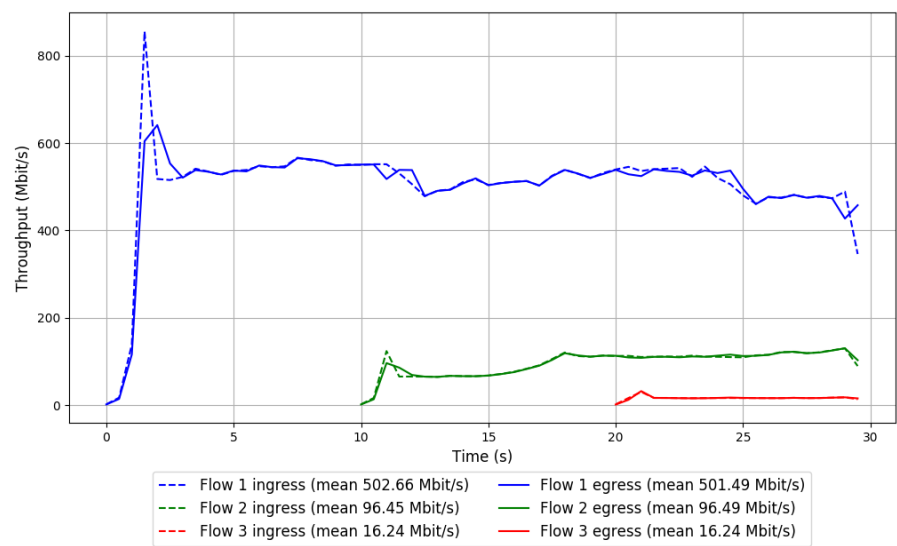
```
Run 7: Statistics of PCC

Start at: 2017-12-01 05:33:10
End at: 2017-12-01 05:33:40

# Below is generated by plot.py at 2017-12-01 07:48:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 570.93 Mbit/s
95th percentile per-packet one-way delay: 97.742 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 501.49 Mbit/s
95th percentile per-packet one-way delay: 97.899 ms
Loss rate: 0.22%
-- Flow 2:
Average throughput: 96.49 Mbit/s
95th percentile per-packet one-way delay: 97.154 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 16.24 Mbit/s
95th percentile per-packet one-way delay: 98.140 ms
Loss rate: 0.00%
```



Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2017-12-01 05:45:17

End at: 2017-12-01 05:45:47

# Below is generated by plot.py at 2017-12-01 07:50:02

# Datalink statistics

-- Total of 3 flows:

Average throughput: 574.69 Mbit/s

95th percentile per-packet one-way delay: 217.126 ms

Loss rate: 1.58%

-- Flow 1:

Average throughput: 526.04 Mbit/s

95th percentile per-packet one-way delay: 192.002 ms

Loss rate: 1.57%

-- Flow 2:

Average throughput: 58.02 Mbit/s

95th percentile per-packet one-way delay: 225.912 ms

Loss rate: 1.43%

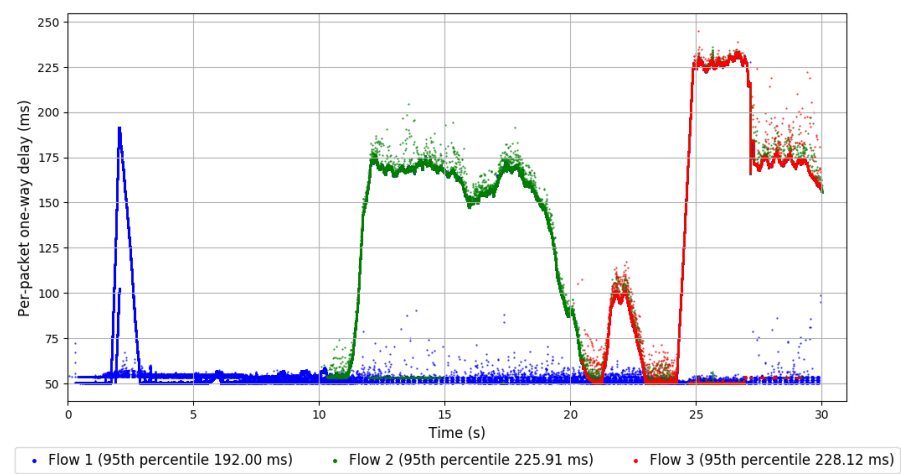
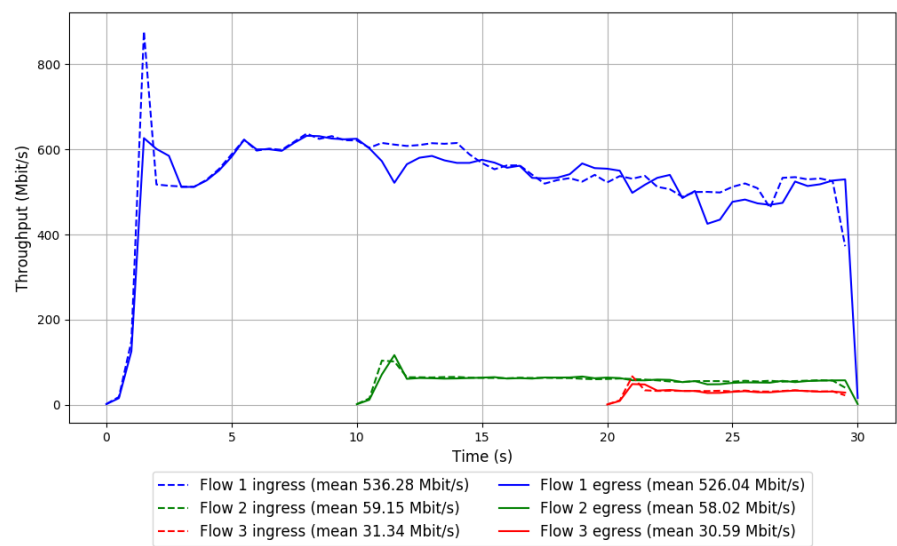
-- Flow 3:

Average throughput: 30.59 Mbit/s

95th percentile per-packet one-way delay: 228.119 ms

Loss rate: 2.43%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2017-12-01 05:57:02

End at: 2017-12-01 05:57:32

# Below is generated by plot.py at 2017-12-01 07:58:10

# Datalink statistics

-- Total of 3 flows:

Average throughput: 596.55 Mbit/s

95th percentile per-packet one-way delay: 154.291 ms

Loss rate: 0.20%

-- Flow 1:

Average throughput: 587.33 Mbit/s

95th percentile per-packet one-way delay: 154.031 ms

Loss rate: 0.20%

-- Flow 2:

Average throughput: 11.75 Mbit/s

95th percentile per-packet one-way delay: 155.419 ms

Loss rate: 0.01%

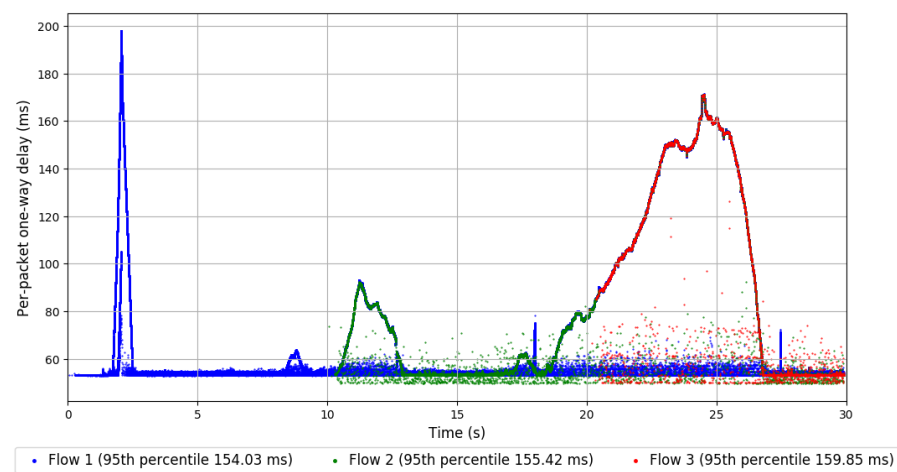
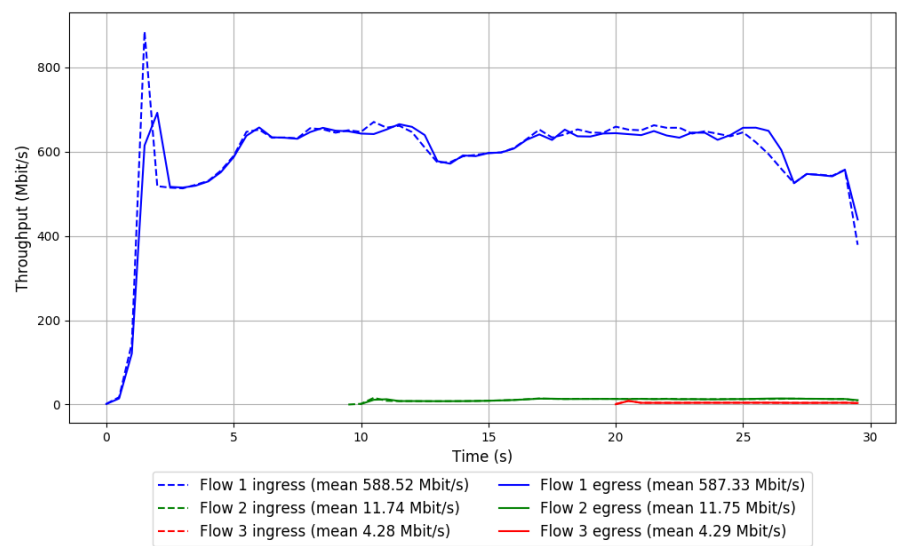
-- Flow 3:

Average throughput: 4.29 Mbit/s

95th percentile per-packet one-way delay: 159.853 ms

Loss rate: 0.00%

Run 9: Report of PCC — Data Link

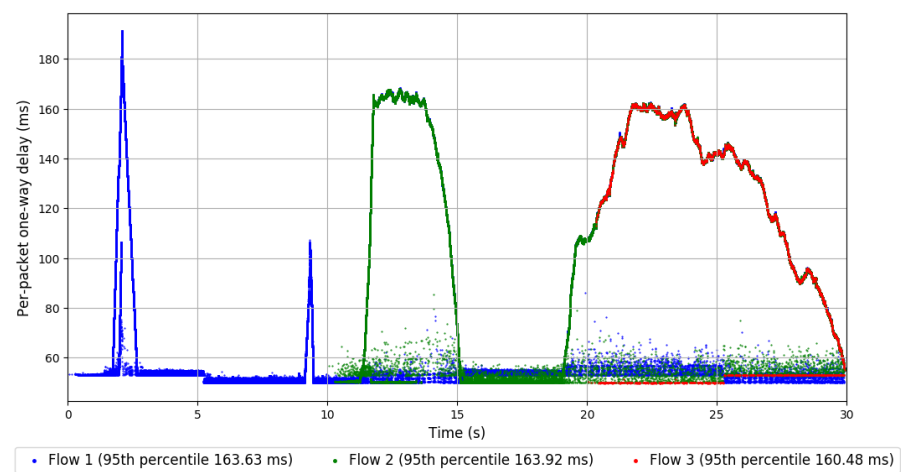
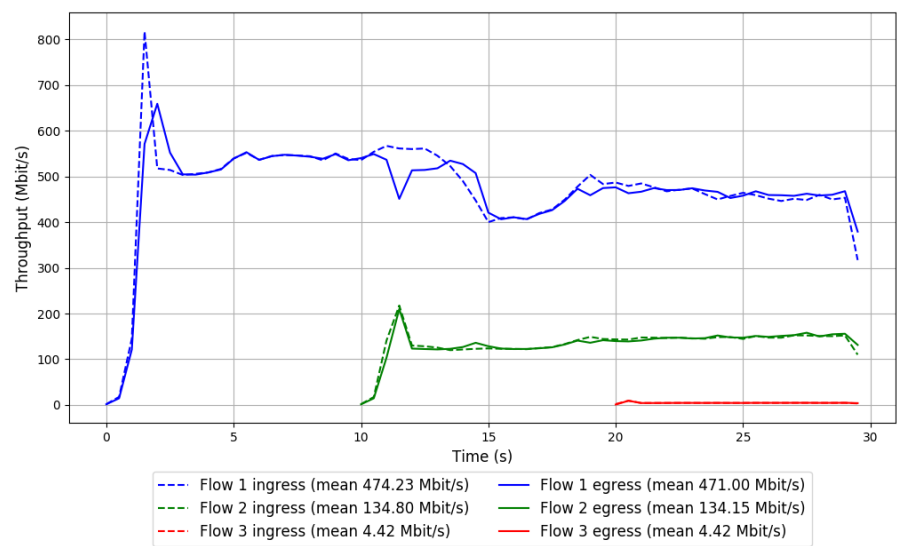


```
Run 10: Statistics of PCC

Start at: 2017-12-01 06:09:18
End at: 2017-12-01 06:09:48

# Below is generated by plot.py at 2017-12-01 07:58:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 561.64 Mbit/s
95th percentile per-packet one-way delay: 163.679 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 471.00 Mbit/s
95th percentile per-packet one-way delay: 163.635 ms
Loss rate: 0.67%
-- Flow 2:
Average throughput: 134.15 Mbit/s
95th percentile per-packet one-way delay: 163.923 ms
Loss rate: 0.49%
-- Flow 3:
Average throughput: 4.42 Mbit/s
95th percentile per-packet one-way delay: 160.478 ms
Loss rate: 0.00%
```

Run 10: Report of PCC — Data Link



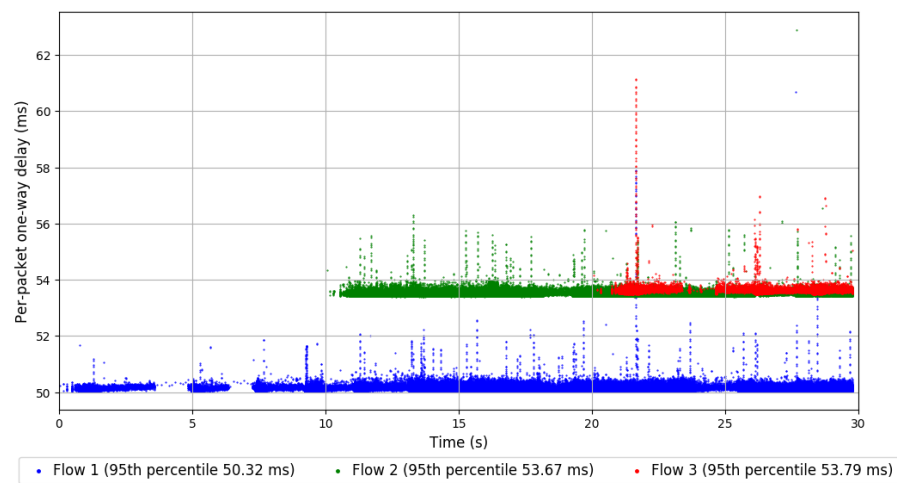
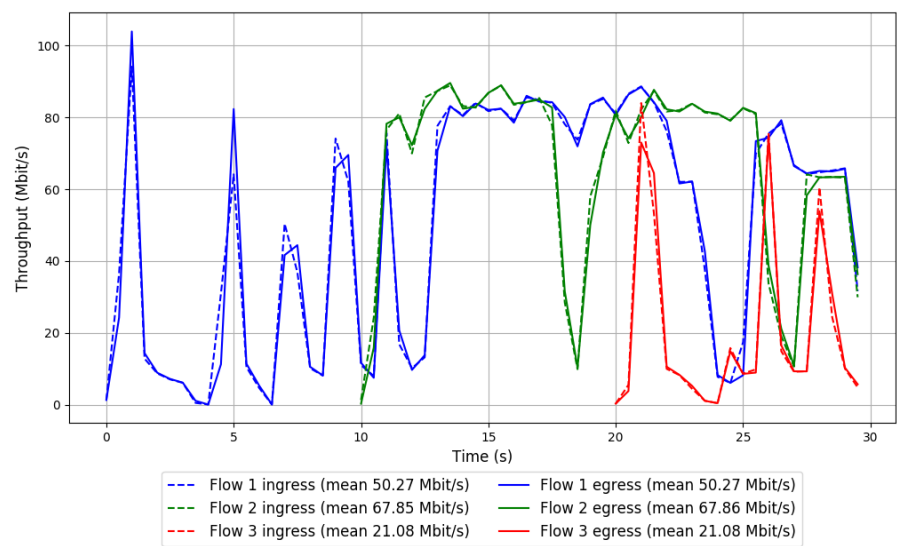
```
Run 1: Statistics of QUIC Cubic

Start at: 2017-12-01 04:18:54
End at: 2017-12-01 04:19:24

# Below is generated by plot.py at 2017-12-01 07:58:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 102.16 Mbit/s
95th percentile per-packet one-way delay: 53.644 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 50.27 Mbit/s
95th percentile per-packet one-way delay: 50.316 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 67.86 Mbit/s
95th percentile per-packet one-way delay: 53.666 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 21.08 Mbit/s
95th percentile per-packet one-way delay: 53.790 ms
Loss rate: 0.02%
```



Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2017-12-01 04:30:45

End at: 2017-12-01 04:31:15

# Below is generated by plot.py at 2017-12-01 07:58:10

# Datalink statistics

-- Total of 3 flows:

Average throughput: 68.87 Mbit/s

95th percentile per-packet one-way delay: 53.579 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 36.09 Mbit/s

95th percentile per-packet one-way delay: 53.191 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 40.25 Mbit/s

95th percentile per-packet one-way delay: 53.660 ms

Loss rate: 0.02%

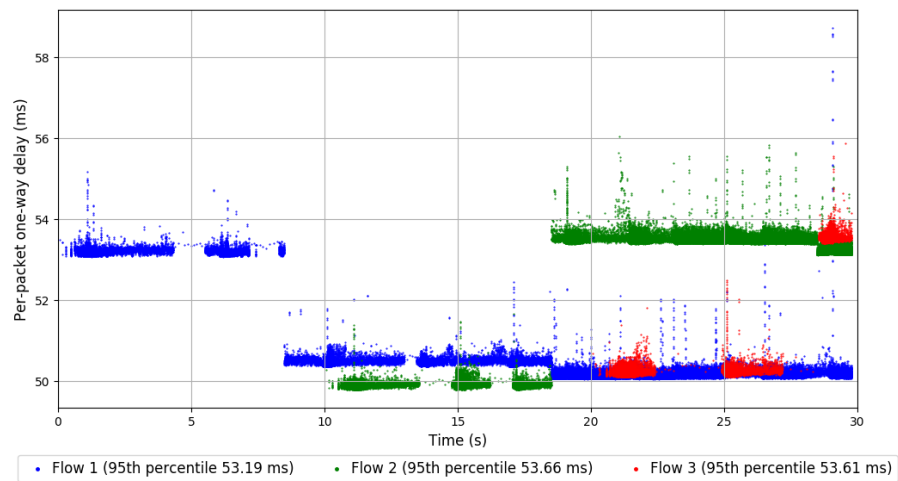
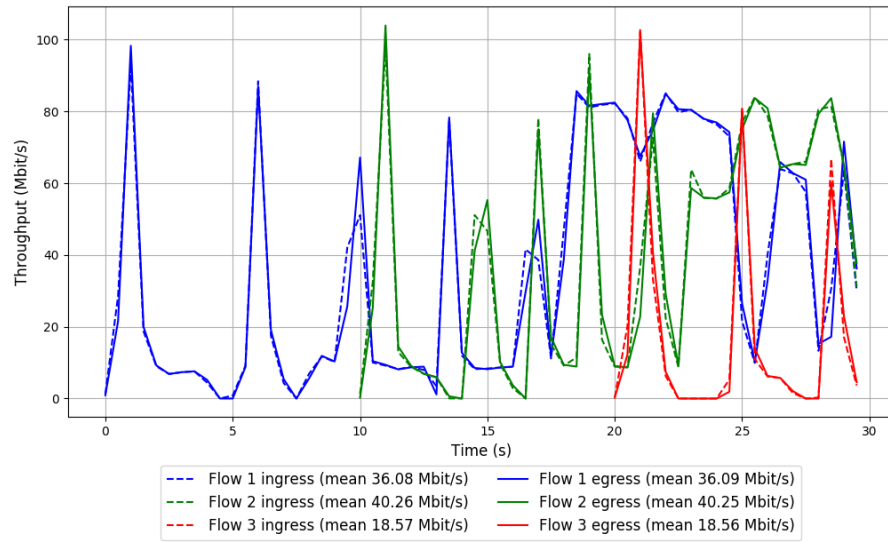
-- Flow 3:

Average throughput: 18.56 Mbit/s

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

Loss rate: 0.00%

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



Run 3: Statistics of QUIC Cubic

Start at: 2017-12-01 04:42:44

End at: 2017-12-01 04:43:14

# Below is generated by plot.py at 2017-12-01 07:58:10

# Datalink statistics

-- Total of 3 flows:

Average throughput: 111.41 Mbit/s

95th percentile per-packet one-way delay: 53.613 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 50.89 Mbit/s

95th percentile per-packet one-way delay: 53.510 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 61.47 Mbit/s

95th percentile per-packet one-way delay: 53.749 ms

Loss rate: 0.00%

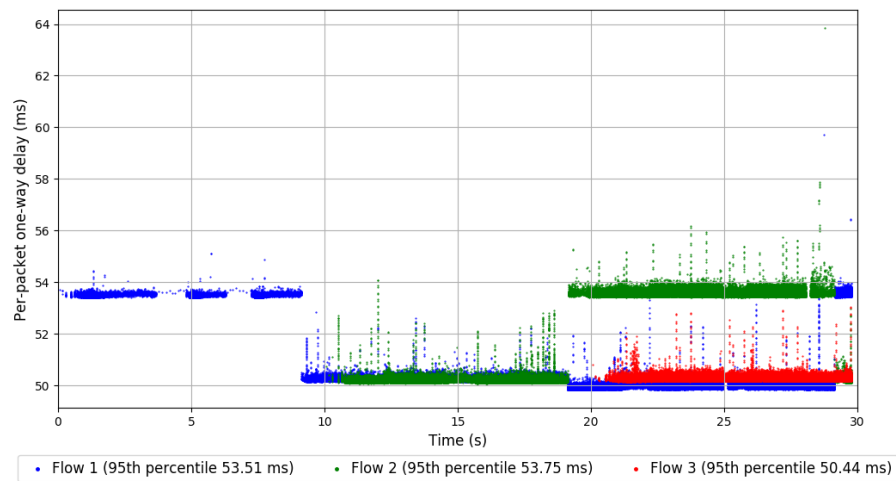
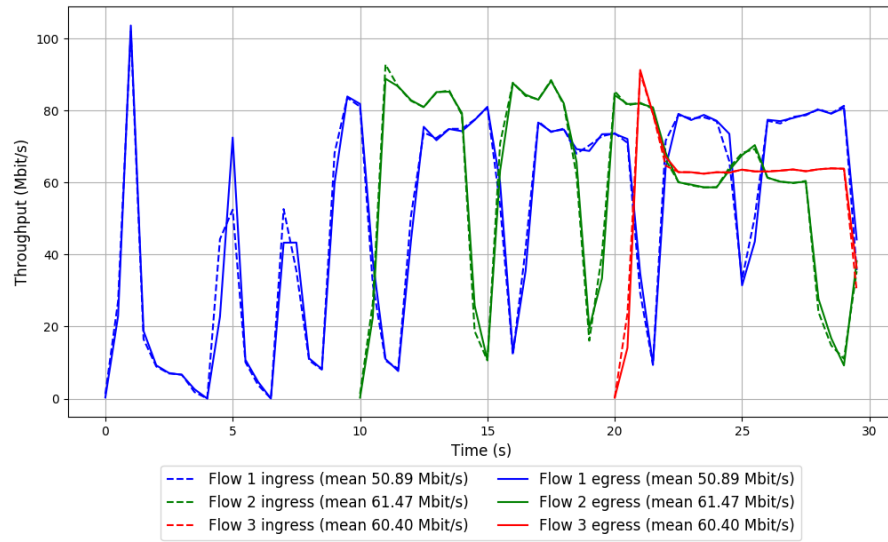
-- Flow 3:

Average throughput: 60.40 Mbit/s

95th percentile per-packet one-way delay: 50.437 ms

Loss rate: 0.00%

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



Run 4: Statistics of QUIC Cubic

Start at: 2017-12-01 04:54:32

End at: 2017-12-01 04:55:03

# Below is generated by plot.py at 2017-12-01 07:58:10

# Datalink statistics

-- Total of 3 flows:

Average throughput: 85.92 Mbit/s

95th percentile per-packet one-way delay: 53.571 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 58.47 Mbit/s

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

Loss rate: 0.01%

-- Flow 2:

Average throughput: 27.03 Mbit/s

95th percentile per-packet one-way delay: 50.488 ms

Loss rate: 0.11%

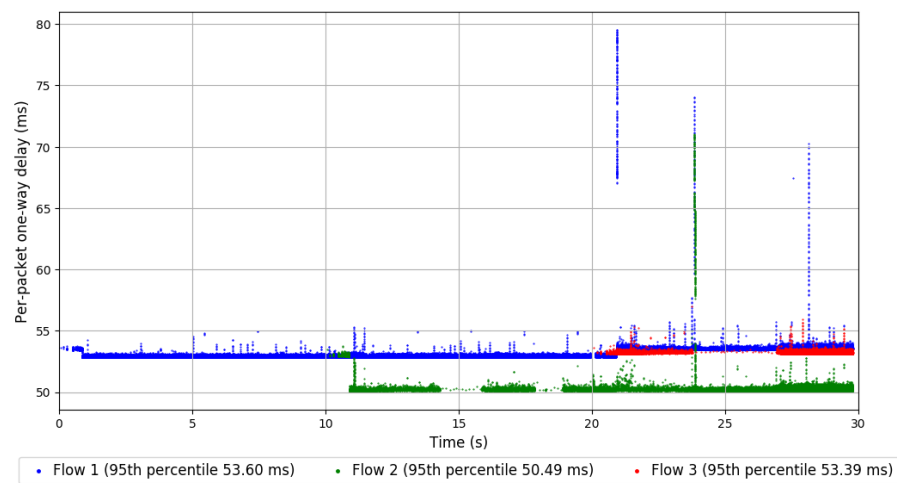
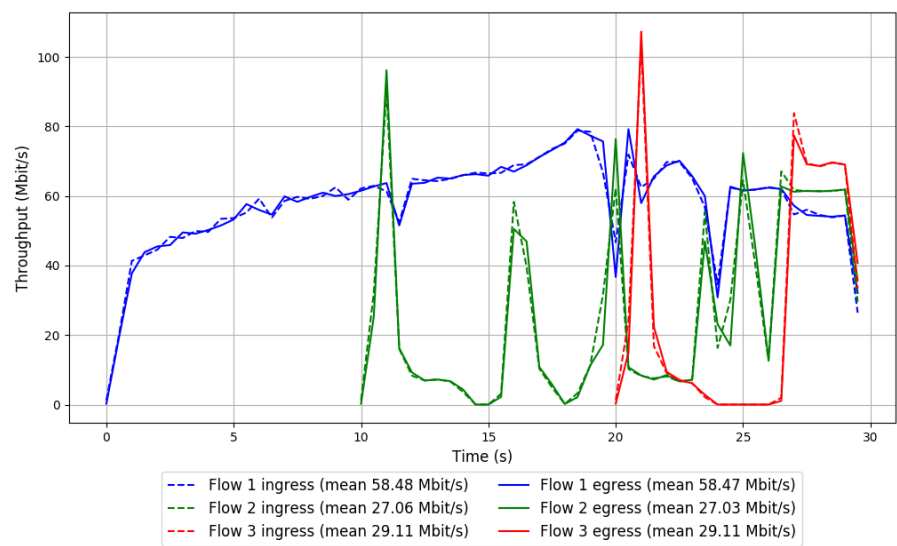
-- Flow 3:

Average throughput: 29.11 Mbit/s

95th percentile per-packet one-way delay: 53.391 ms

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2017-12-01 05:06:18

End at: 2017-12-01 05:06:48

# Below is generated by plot.py at 2017-12-01 07:58:10

# Datalink statistics

-- Total of 3 flows:

Average throughput: 100.54 Mbit/s

95th percentile per-packet one-way delay: 53.554 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 71.04 Mbit/s

95th percentile per-packet one-way delay: 50.498 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 35.00 Mbit/s

95th percentile per-packet one-way delay: 53.706 ms

Loss rate: 0.00%

-- Flow 3:

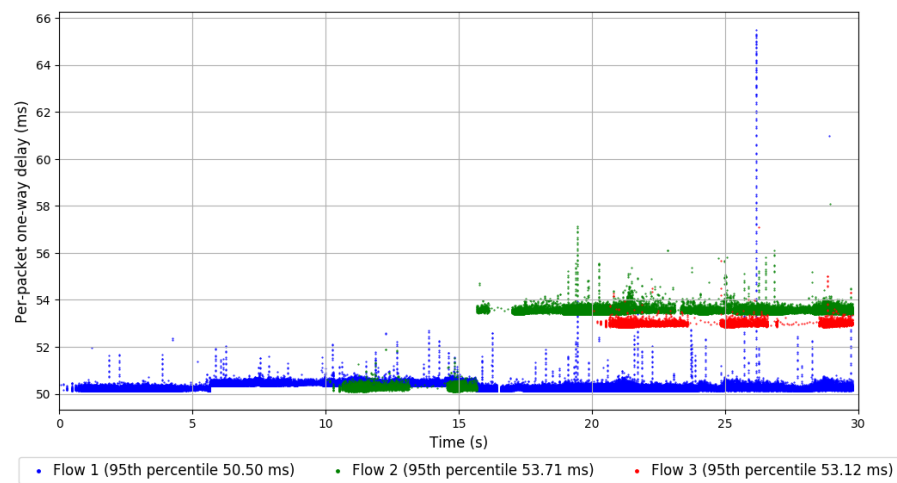
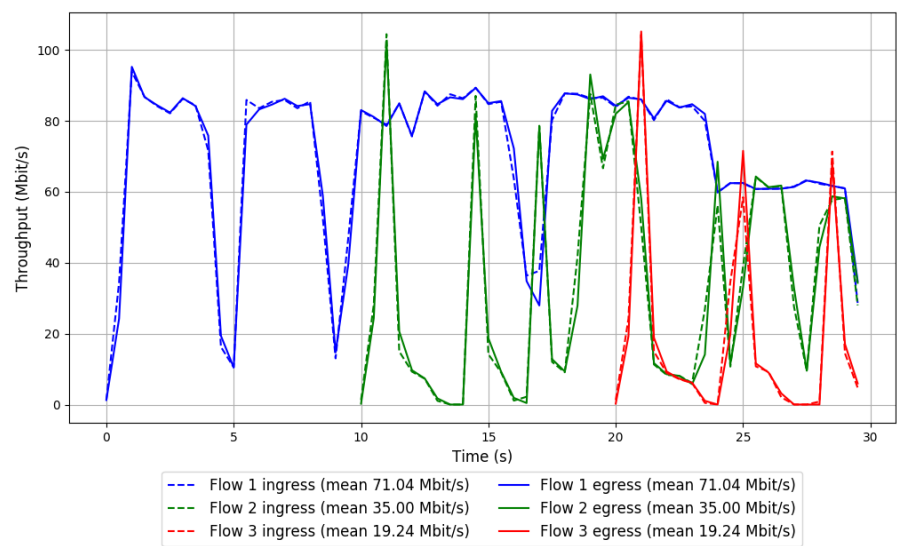
Average throughput: 19.24 Mbit/s

95th percentile per-packet one-way delay: 53.120 ms

Loss rate: 0.00%



Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2017-12-01 05:18:06

End at: 2017-12-01 05:18:36

# Below is generated by plot.py at 2017-12-01 07:58:10

# Datalink statistics

-- Total of 3 flows:

Average throughput: 91.55 Mbit/s

95th percentile per-packet one-way delay: 53.599 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 35.57 Mbit/s

95th percentile per-packet one-way delay: 53.690 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 60.33 Mbit/s

95th percentile per-packet one-way delay: 53.430 ms

Loss rate: 0.00%

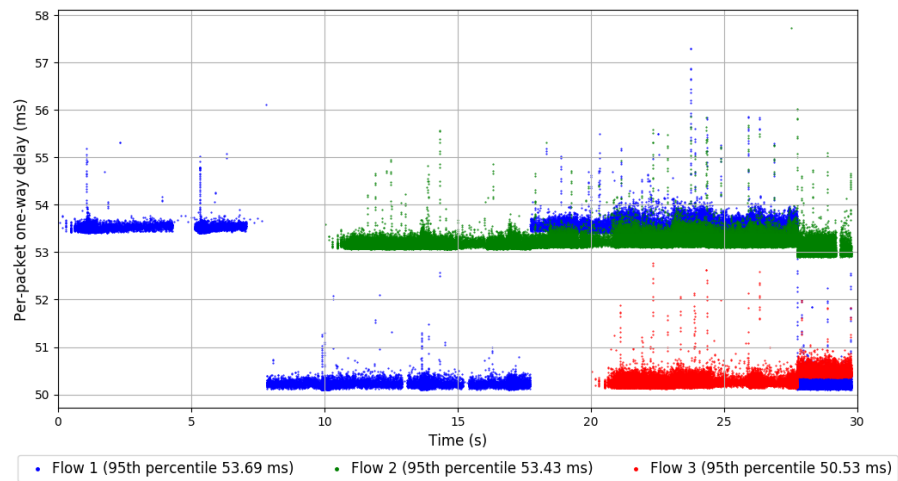
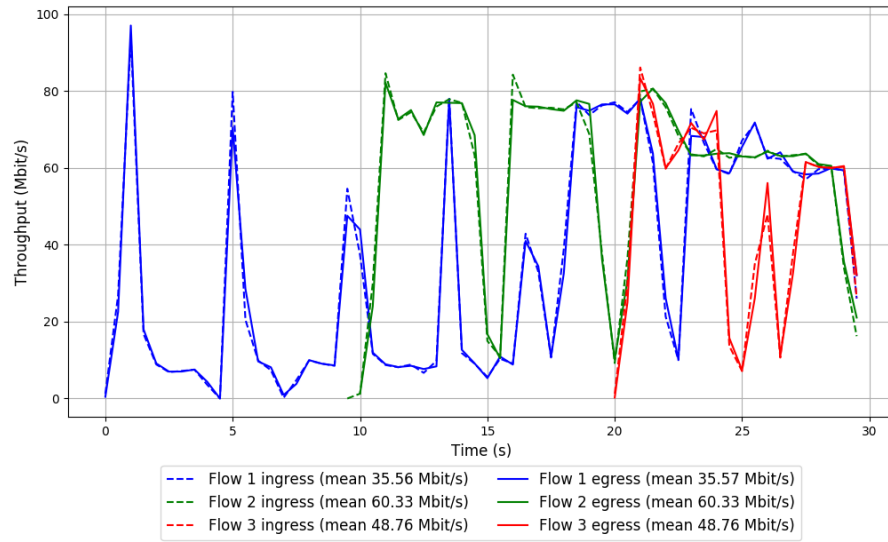
-- Flow 3:

Average throughput: 48.76 Mbit/s

95th percentile per-packet one-way delay: 50.532 ms

Loss rate: 0.00%

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



Run 7: Statistics of QUIC Cubic

Start at: 2017-12-01 05:30:13

End at: 2017-12-01 05:30:43

# Below is generated by plot.py at 2017-12-01 07:58:10

# Datalink statistics

-- Total of 3 flows:

Average throughput: 34.32 Mbit/s

95th percentile per-packet one-way delay: 53.557 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 21.39 Mbit/s

95th percentile per-packet one-way delay: 50.511 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 15.44 Mbit/s

95th percentile per-packet one-way delay: 53.575 ms

Loss rate: 0.00%

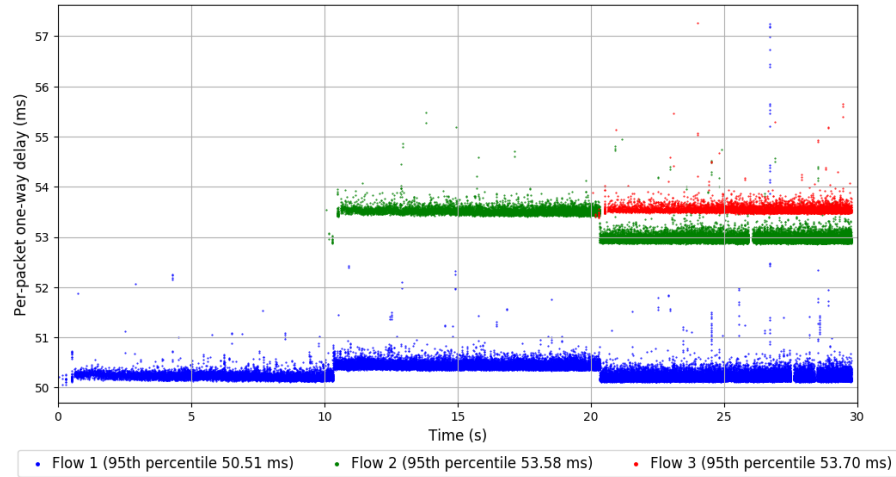
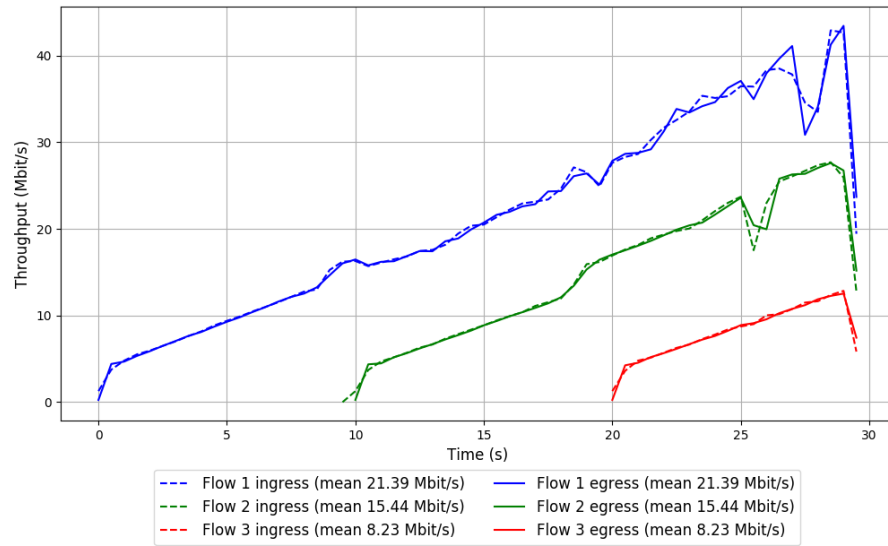
-- Flow 3:

Average throughput: 8.23 Mbit/s

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

Loss rate: 0.00%

## Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2017-12-01 05:42:18

End at: 2017-12-01 05:42:48

# Below is generated by plot.py at 2017-12-01 07:58:10

# Datalink statistics

-- Total of 3 flows:

Average throughput: 93.50 Mbit/s

95th percentile per-packet one-way delay: 53.273 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 48.10 Mbit/s

95th percentile per-packet one-way delay: 53.313 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 46.55 Mbit/s

95th percentile per-packet one-way delay: 50.489 ms

Loss rate: 0.00%

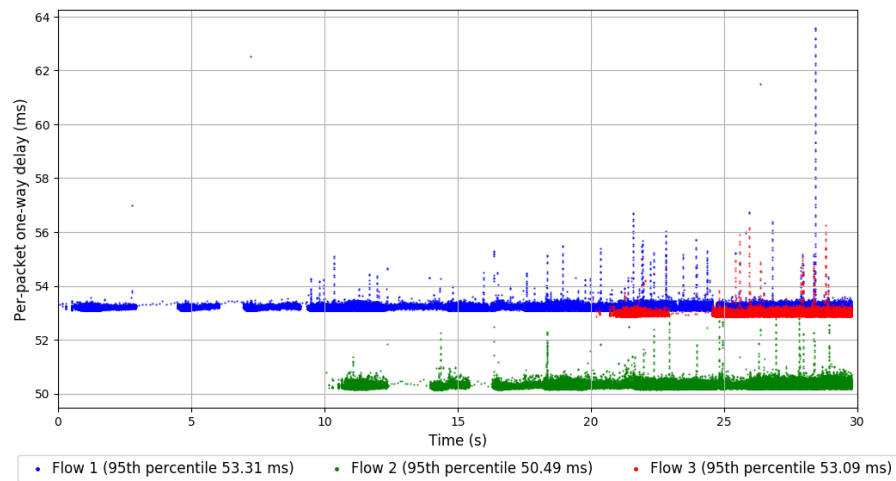
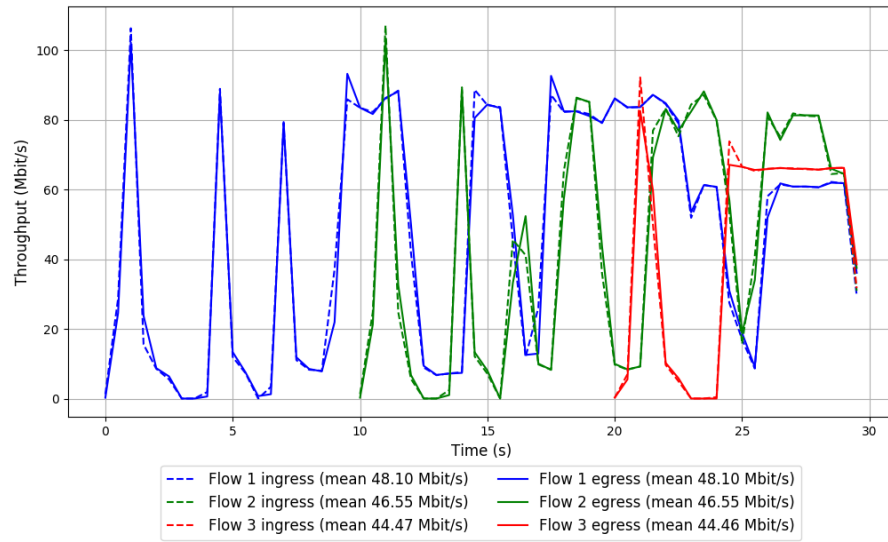
-- Flow 3:

Average throughput: 44.46 Mbit/s

95th percentile per-packet one-way delay: 53.086 ms

Loss rate: 0.02%

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



Run 9: Statistics of QUIC Cubic

Start at: 2017-12-01 05:54:03

End at: 2017-12-01 05:54:33

# Below is generated by plot.py at 2017-12-01 07:58:10

# Datalink statistics

-- Total of 3 flows:

Average throughput: 115.97 Mbit/s

95th percentile per-packet one-way delay: 53.035 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 68.49 Mbit/s

95th percentile per-packet one-way delay: 52.928 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 42.46 Mbit/s

95th percentile per-packet one-way delay: 53.174 ms

Loss rate: 0.01%

-- Flow 3:

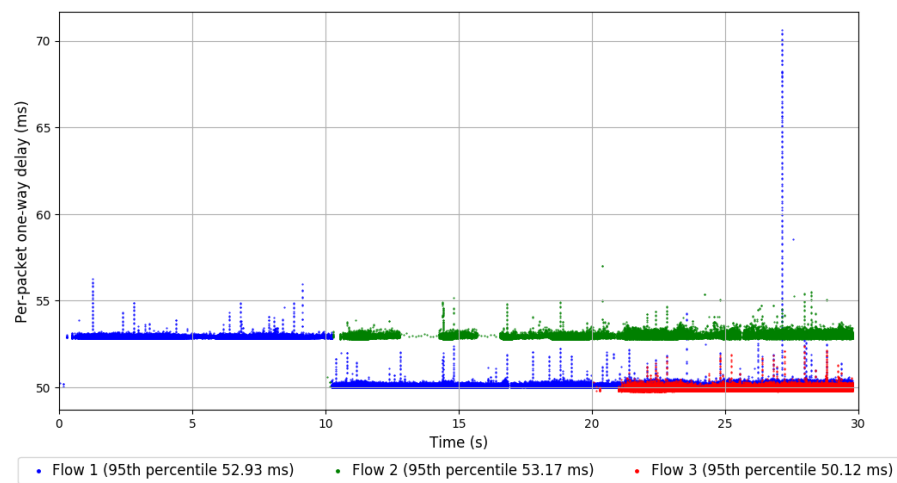
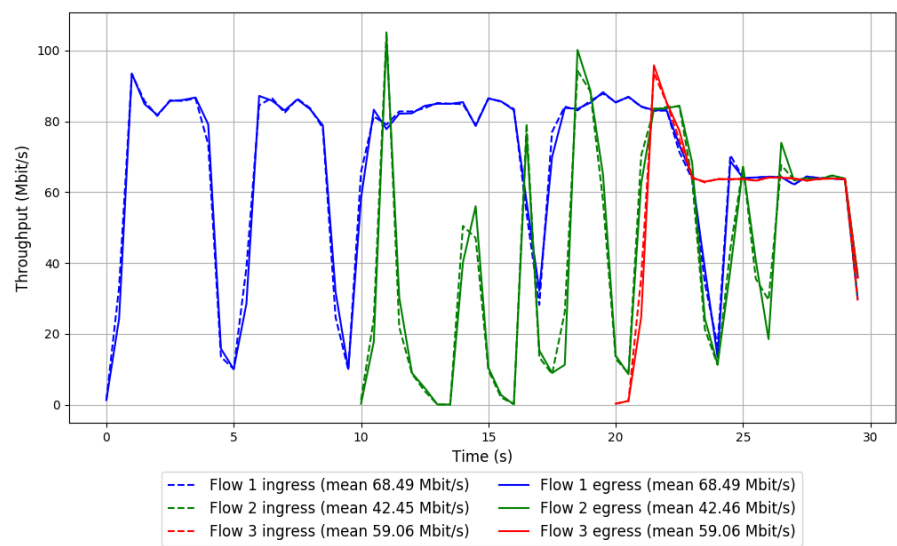
Average throughput: 59.06 Mbit/s

95th percentile per-packet one-way delay: 50.125 ms

Loss rate: 0.00%



Run 9: Report of QUIC Cubic — Data Link

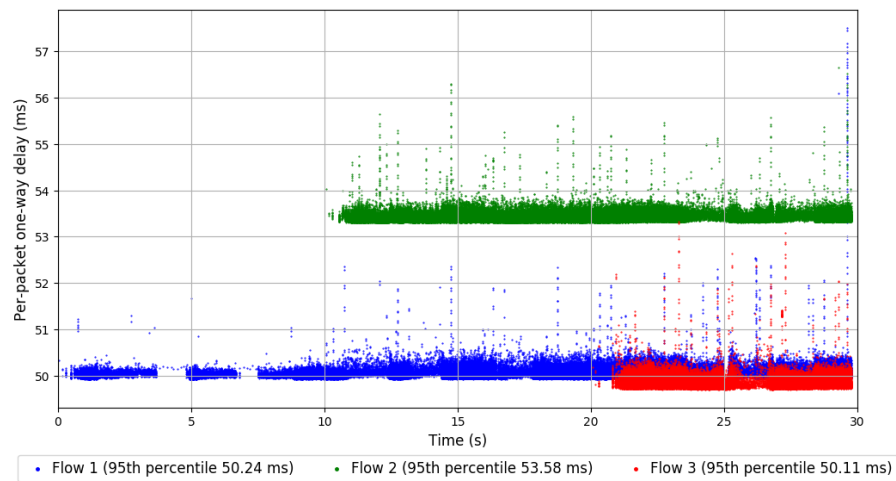
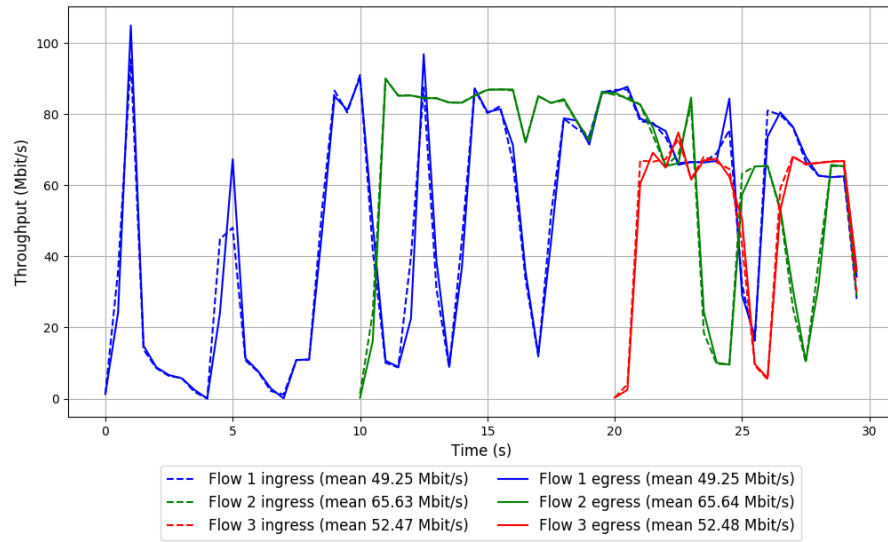


```
Run 10: Statistics of QUIC Cubic

Start at: 2017-12-01 06:06:19
End at: 2017-12-01 06:06:49

# Below is generated by plot.py at 2017-12-01 07:58:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 109.93 Mbit/s
95th percentile per-packet one-way delay: 53.503 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 49.25 Mbit/s
95th percentile per-packet one-way delay: 50.242 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 65.64 Mbit/s
95th percentile per-packet one-way delay: 53.579 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 52.48 Mbit/s
95th percentile per-packet one-way delay: 50.112 ms
Loss rate: 0.00%
```

# Run 10: Report of QUIC Cubic — Data Link

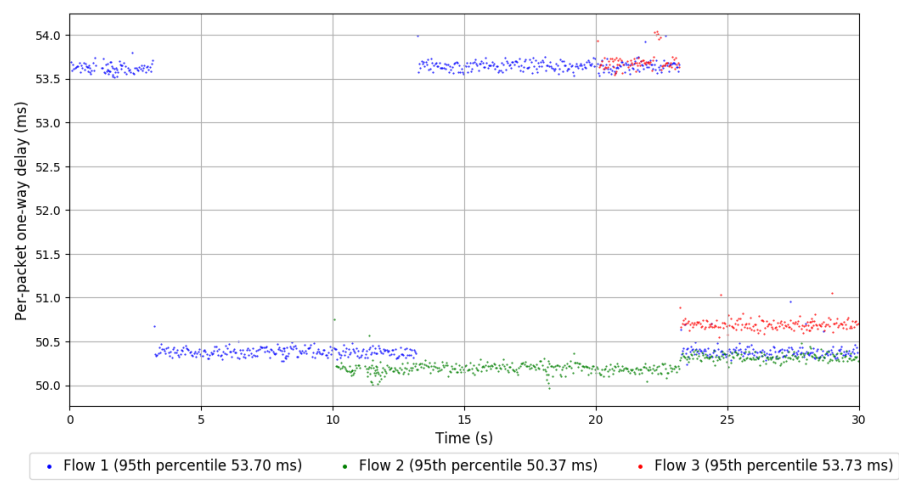
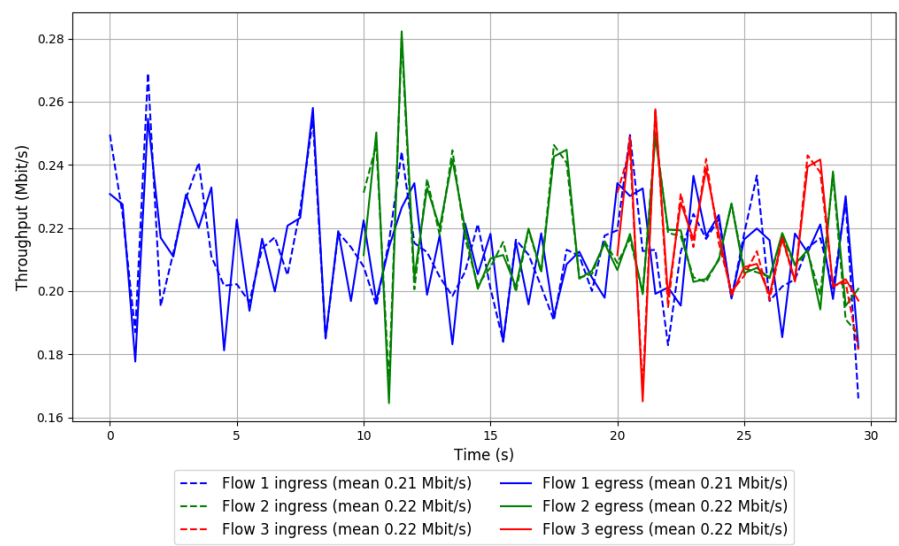


```
Run 1: Statistics of SCReAM

Start at: 2017-12-01 04:29:10
End at: 2017-12-01 04:29:40

# Below is generated by plot.py at 2017-12-01 07:58:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 53.693 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.698 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.367 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 53.730 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

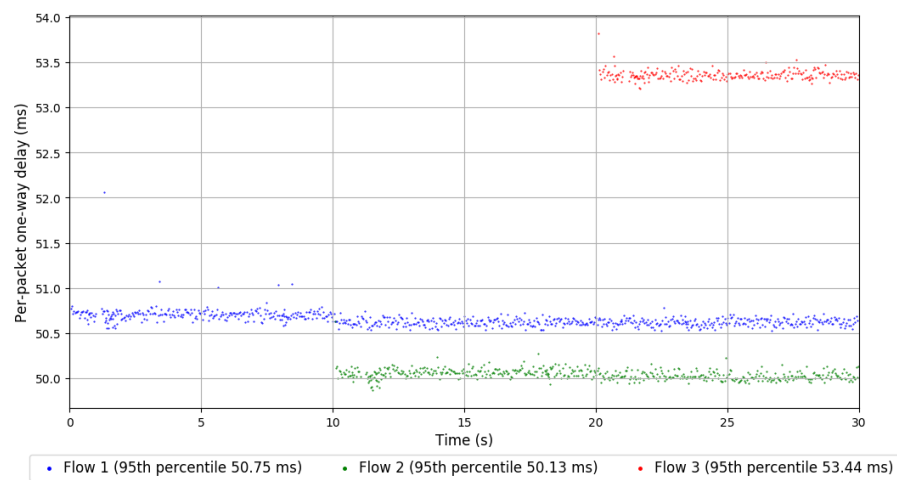
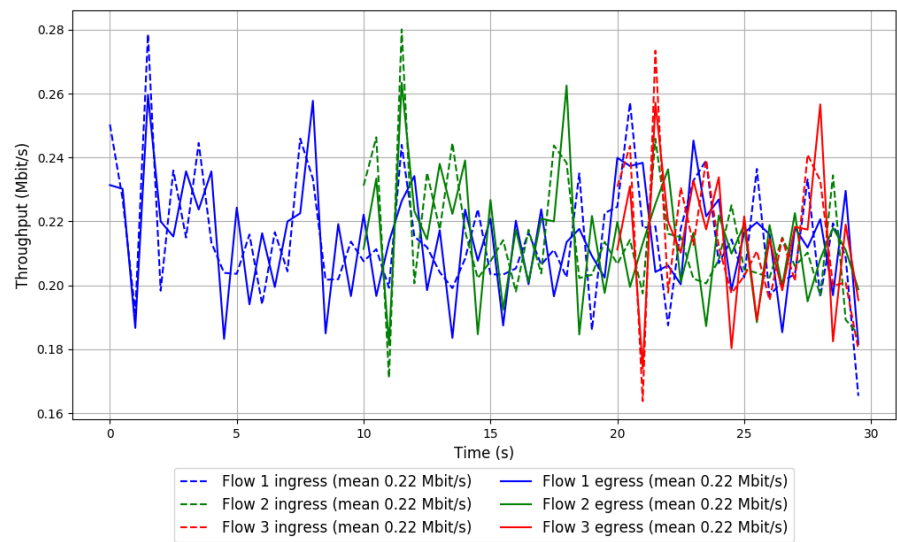


```
Run 2: Statistics of SReAM

Start at: 2017-12-01 04:41:09
End at: 2017-12-01 04:41:39

# Below is generated by plot.py at 2017-12-01 07:58:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 53.379 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.753 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.132 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 53.441 ms
Loss rate: 0.00%
```

Run 2: Report of SReAM — Data Link



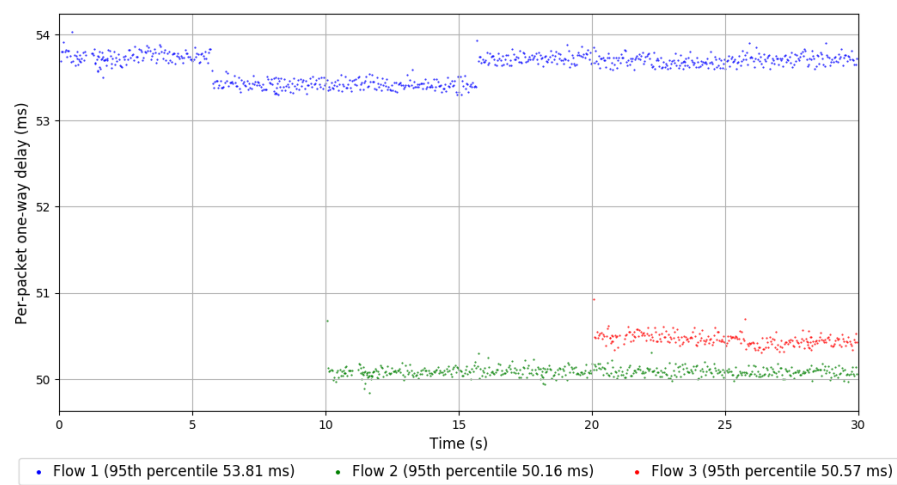
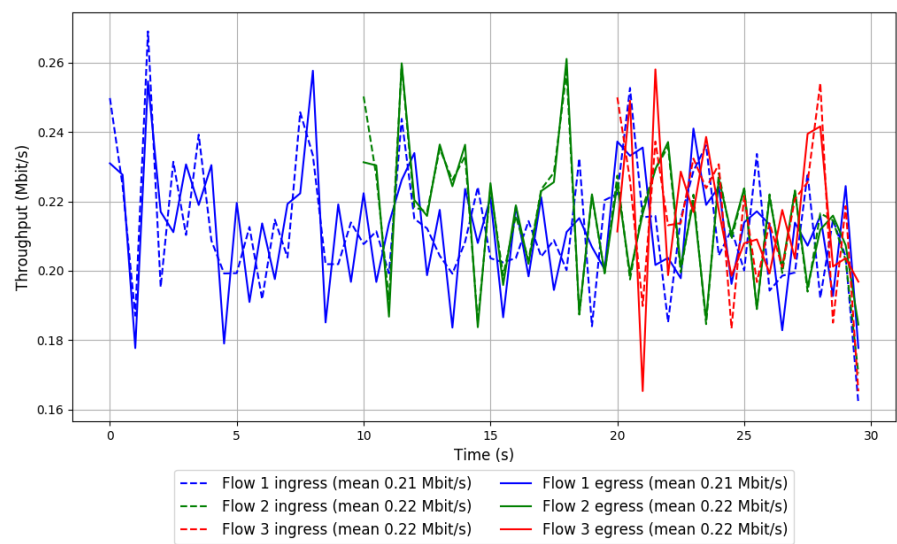
```
Run 3: Statistics of SCReAM

Start at: 2017-12-01 04:52:58
End at: 2017-12-01 04:53:28

# Below is generated by plot.py at 2017-12-01 07:58:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 53.787 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.810 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.165 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.572 ms
Loss rate: 0.00%
```



Run 3: Report of SReAM — Data Link

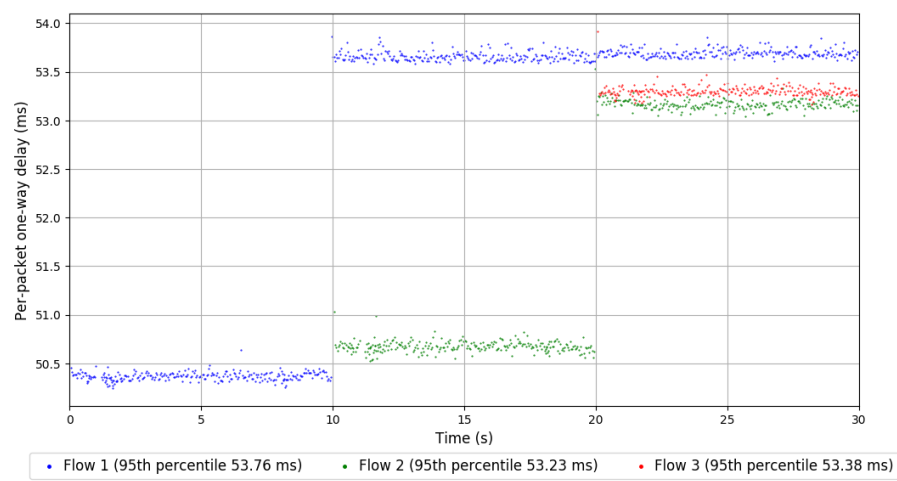
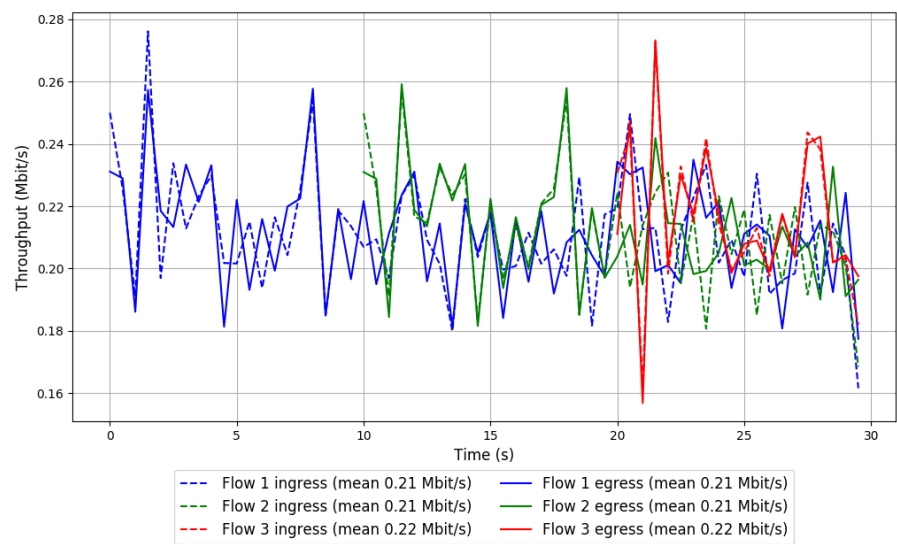


```
Run 4: Statistics of SReAM

Start at: 2017-12-01 05:04:44
End at: 2017-12-01 05:05:14

# Below is generated by plot.py at 2017-12-01 07:58:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 53.721 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.756 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.225 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 53.376 ms
Loss rate: 0.00%
```

Run 4: Report of SReAM — Data Link

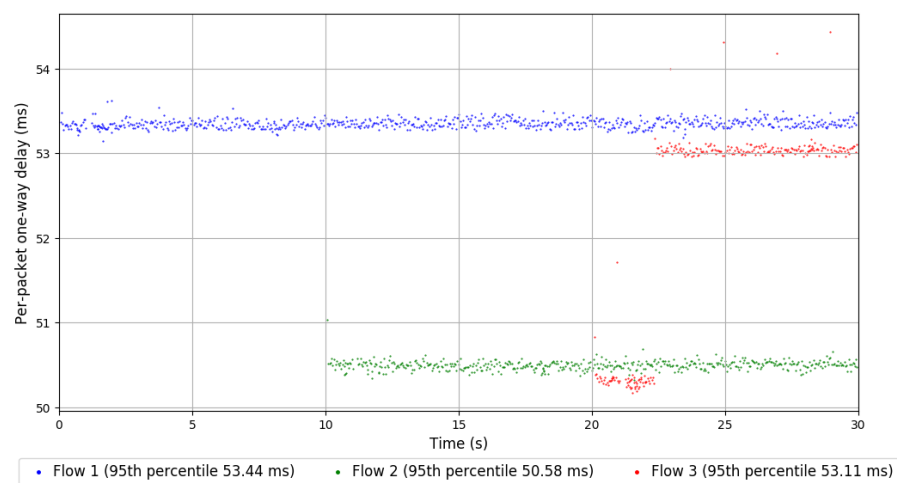
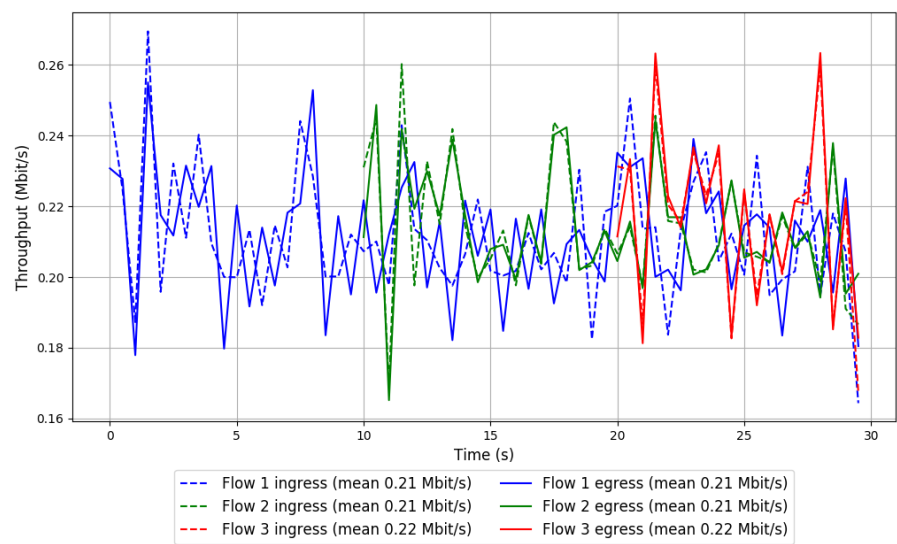


```
Run 5: Statistics of SCReAM

Start at: 2017-12-01 05:16:31
End at: 2017-12-01 05:17:01

# Below is generated by plot.py at 2017-12-01 07:58:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 53.423 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.444 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 50.575 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 53.111 ms
Loss rate: 0.00%
```

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2017-12-01 05:28:39

End at: 2017-12-01 05:29:09

# Below is generated by plot.py at 2017-12-01 07:58:10

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 53.796 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.457 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.843 ms

Loss rate: 0.00%

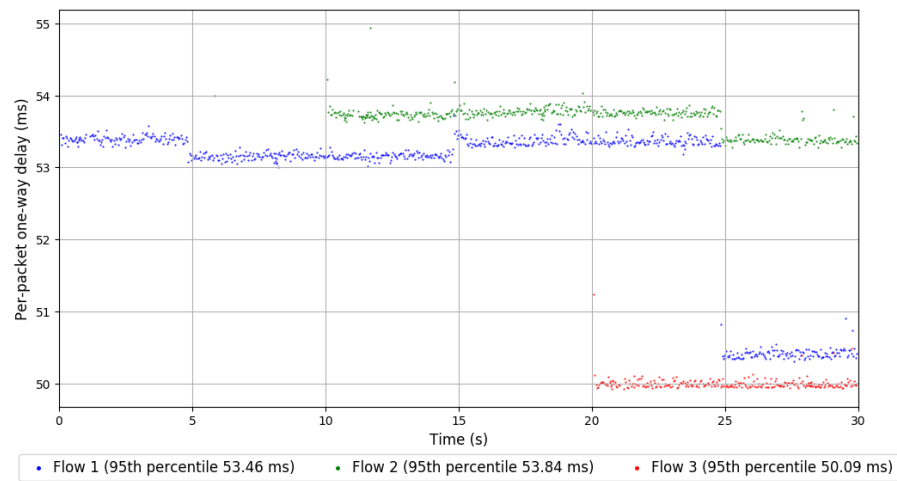
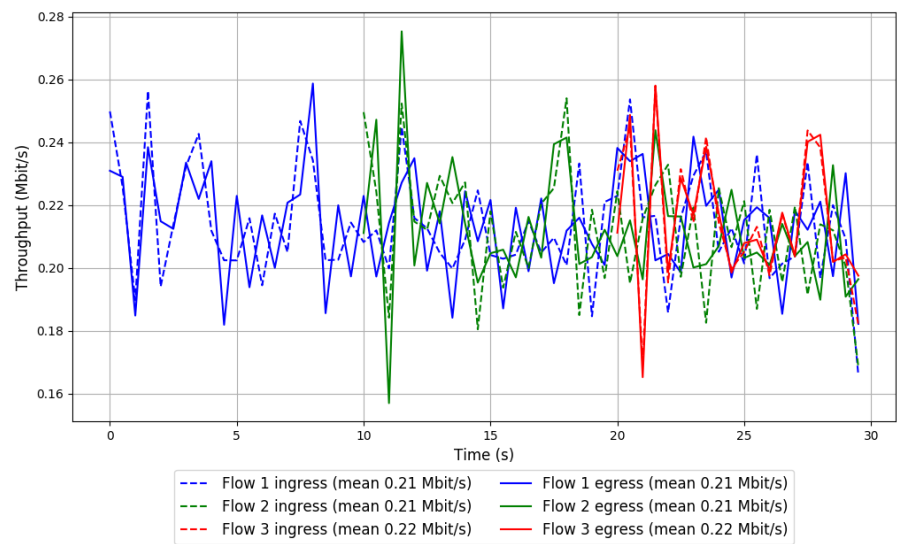
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.085 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link



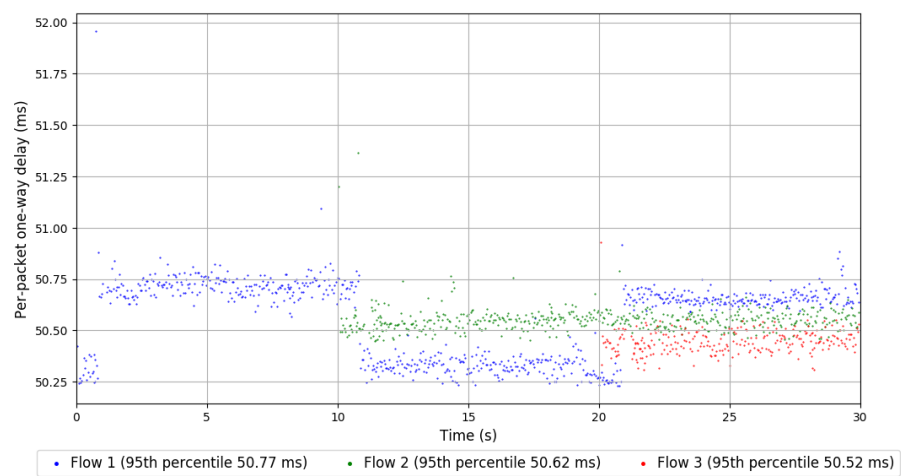
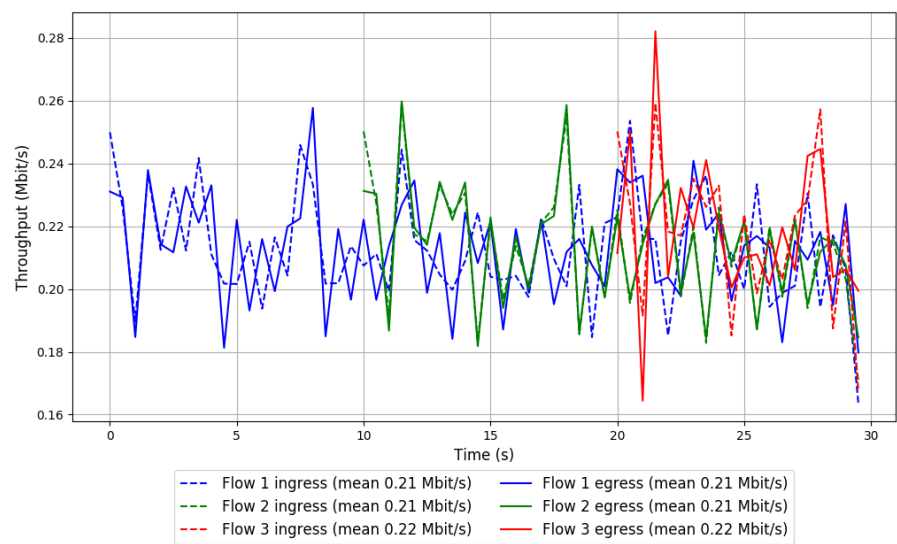
```
Run 7: Statistics of SReAM

Start at: 2017-12-01 05:40:43
End at: 2017-12-01 05:41:13

# Below is generated by plot.py at 2017-12-01 07:58:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 50.744 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 50.768 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 50.621 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.525 ms
Loss rate: 0.00%
```



Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2017-12-01 05:52:29

End at: 2017-12-01 05:52:59

# Below is generated by plot.py at 2017-12-01 07:58:10

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 53.591 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.331 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.159 ms

Loss rate: 0.00%

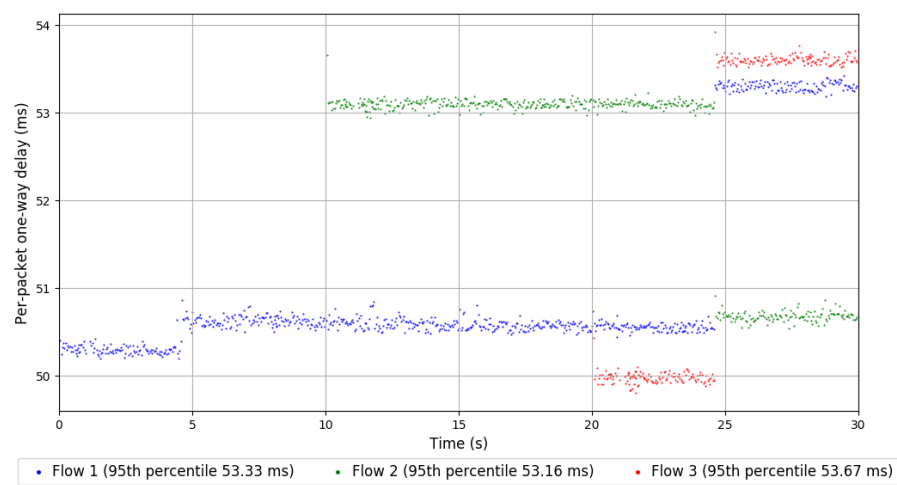
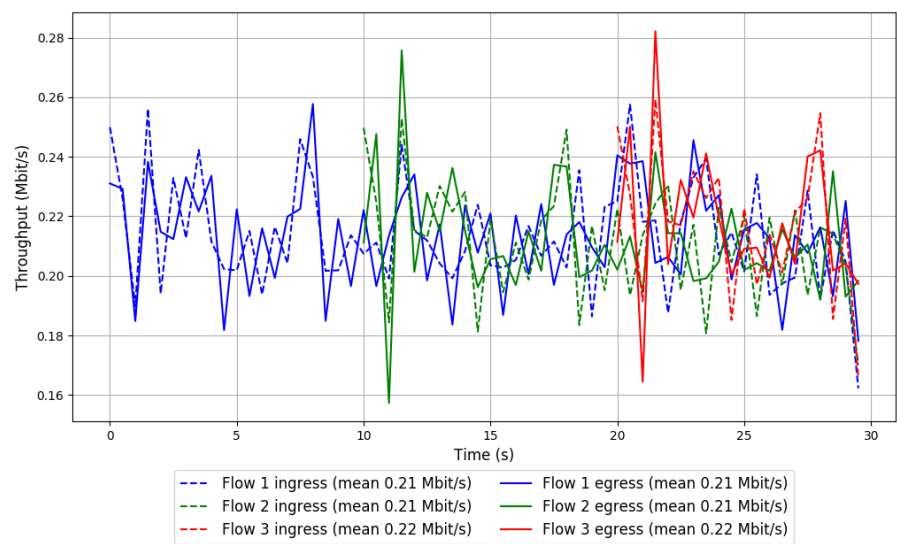
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 53.670 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2017-12-01 06:04:44

End at: 2017-12-01 06:05:14

# Below is generated by plot.py at 2017-12-01 07:58:10

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 53.080 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.331 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 50.240 ms

Loss rate: 0.00%

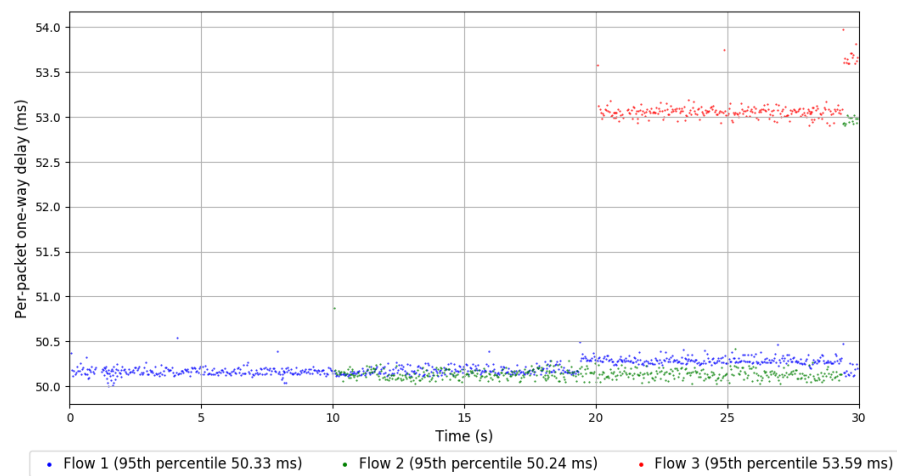
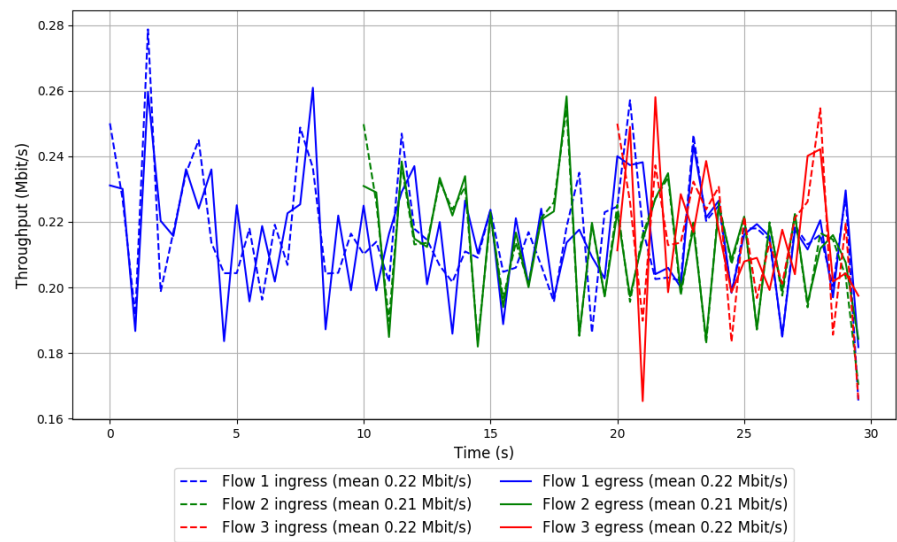
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 53.592 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link

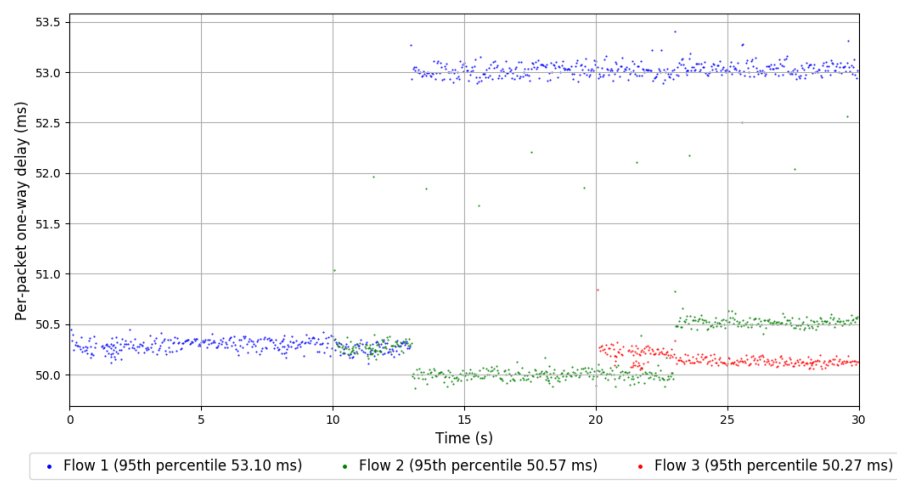
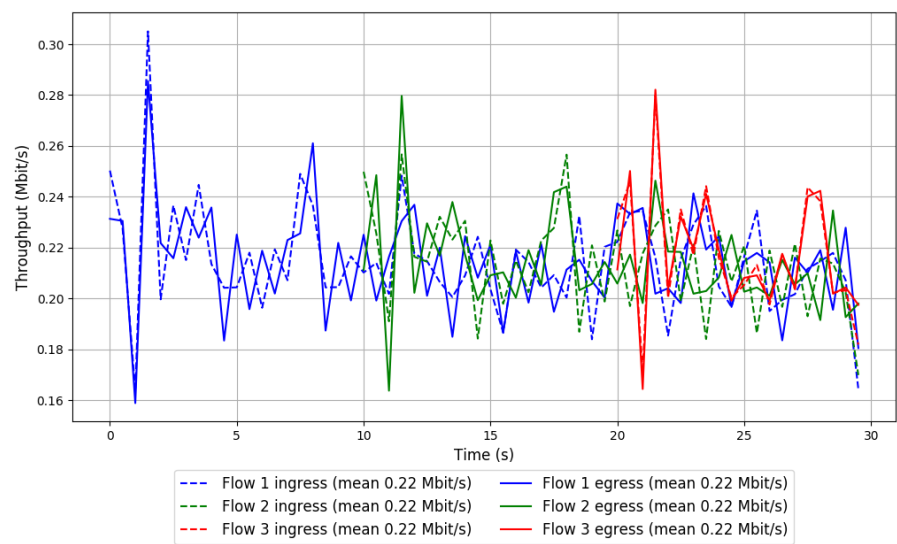


```
Run 10: Statistics of SCReAM

Start at: 2017-12-01 06:16:41
End at: 2017-12-01 06:17:11

# Below is generated by plot.py at 2017-12-01 07:58:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 53.077 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 53.105 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.567 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.269 ms
Loss rate: 0.00%
```

Run 10: Report of SReAM — Data Link



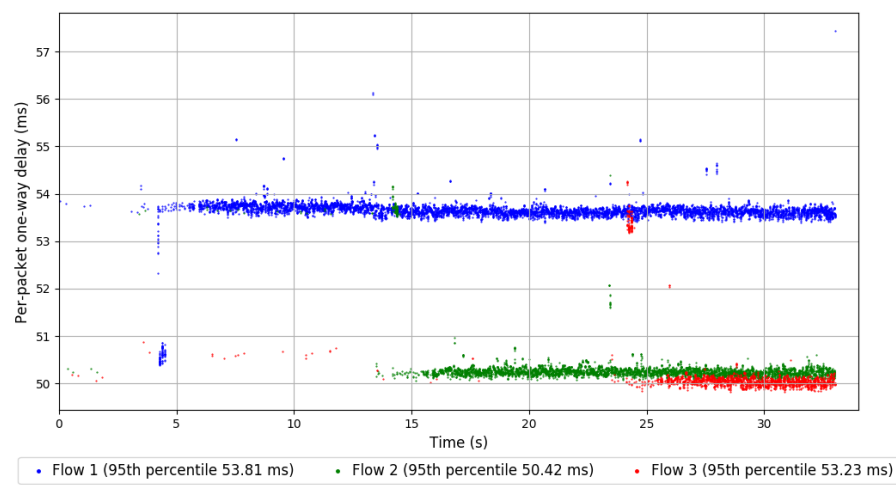
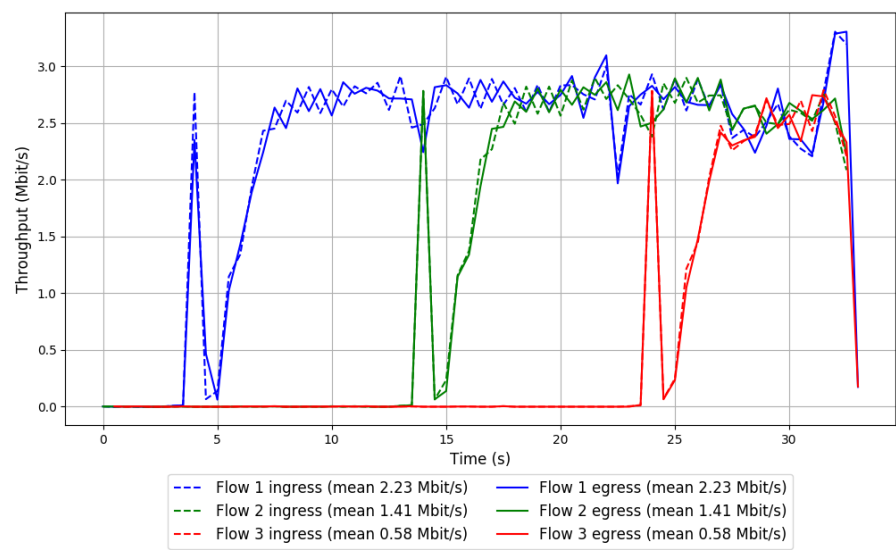
```
Run 1: Statistics of WebRTC media

Start at: 2017-12-01 04:21:13
End at: 2017-12-01 04:21:43

# Below is generated by plot.py at 2017-12-01 07:58:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.20 Mbit/s
95th percentile per-packet one-way delay: 53.777 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.23 Mbit/s
95th percentile per-packet one-way delay: 53.810 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.41 Mbit/s
95th percentile per-packet one-way delay: 50.418 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.58 Mbit/s
95th percentile per-packet one-way delay: 53.228 ms
Loss rate: 0.00%
```



Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2017-12-01 04:33:03

End at: 2017-12-01 04:33:33

# Below is generated by plot.py at 2017-12-01 07:58:10

# Datalink statistics

-- Total of 3 flows:

Average throughput: 4.23 Mbit/s

95th percentile per-packet one-way delay: 53.702 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: 50.752 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.42 Mbit/s

95th percentile per-packet one-way delay: 53.761 ms

Loss rate: 0.00%

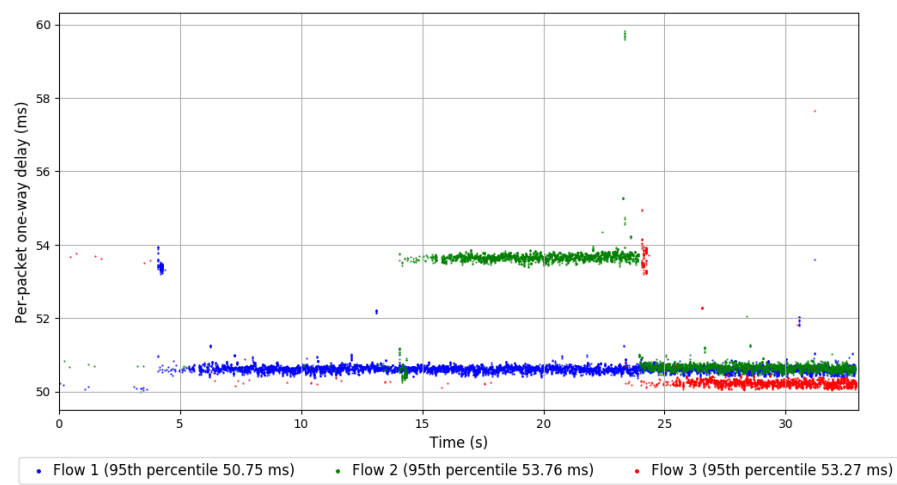
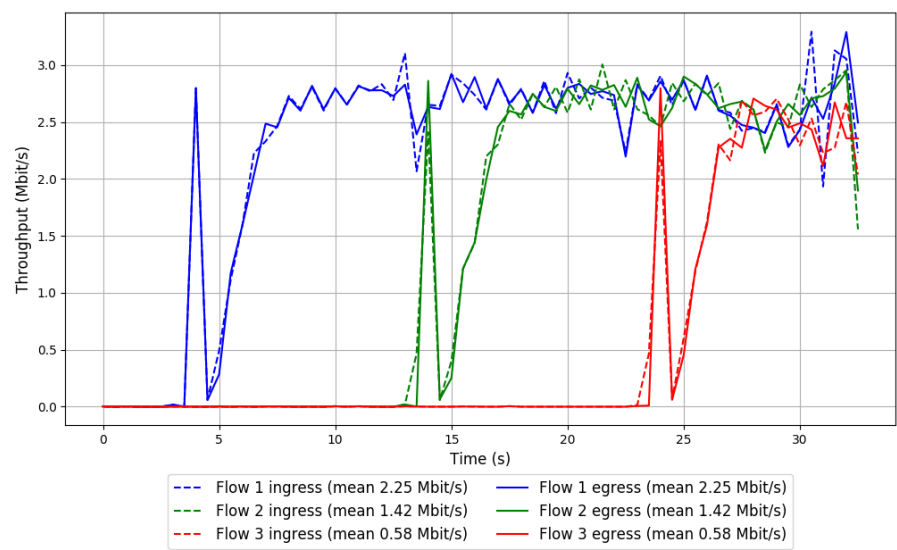
-- Flow 3:

Average throughput: 0.58 Mbit/s

95th percentile per-packet one-way delay: 53.272 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2017-12-01 04:45:05

End at: 2017-12-01 04:45:35

# Below is generated by plot.py at 2017-12-01 07:58:10

# Datalink statistics

-- Total of 3 flows:

Average throughput: 4.60 Mbit/s

95th percentile per-packet one-way delay: 53.765 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.44 Mbit/s

95th percentile per-packet one-way delay: 53.788 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.52 Mbit/s

95th percentile per-packet one-way delay: 53.686 ms

Loss rate: 0.00%

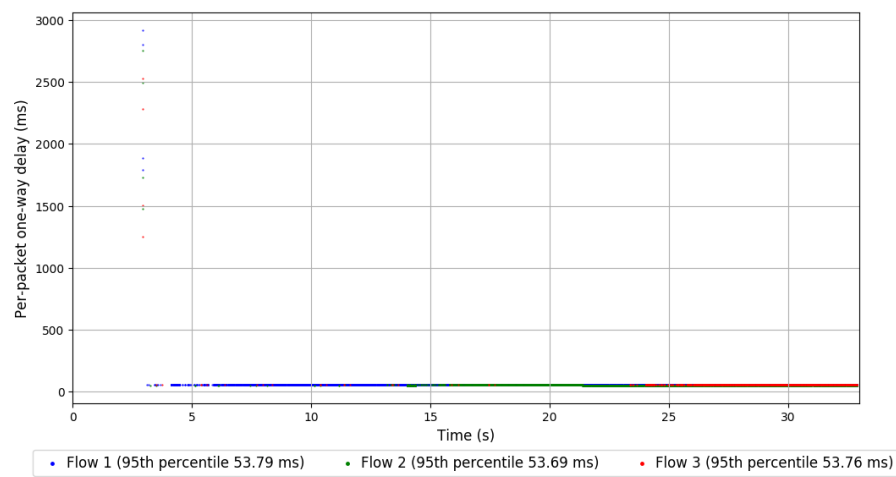
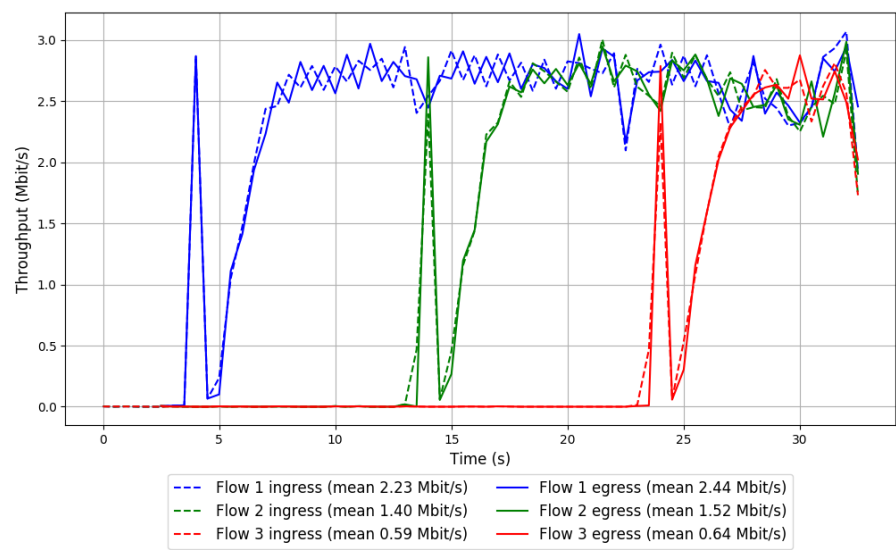
-- Flow 3:

Average throughput: 0.64 Mbit/s

95th percentile per-packet one-way delay: 53.758 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link

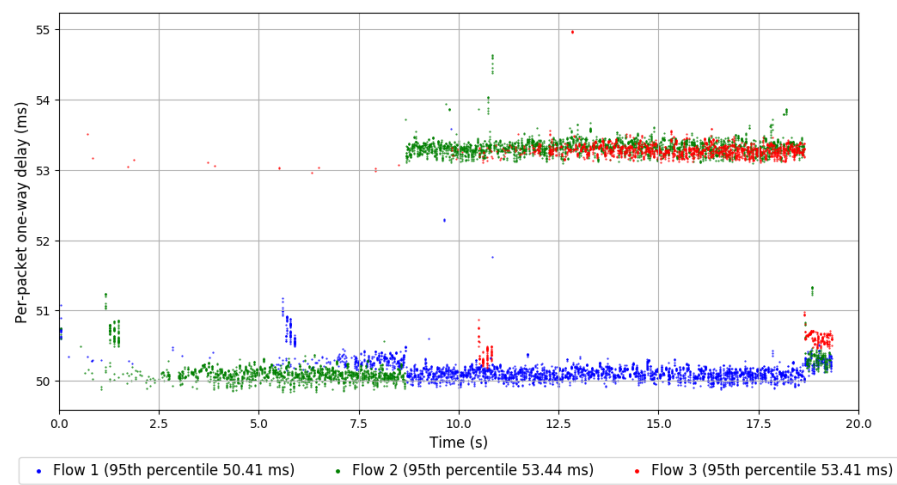
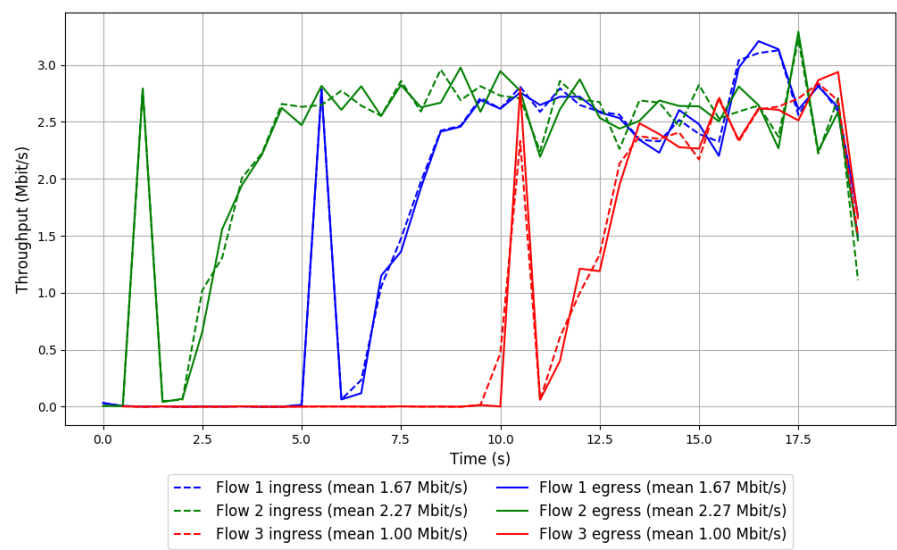


Run 4: Statistics of WebRTC media

Start at: 2017-12-01 04:56:54

End at: 2017-12-01 04:57:24

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2017-12-01 05:08:38

End at: 2017-12-01 05:09:08

# Below is generated by plot.py at 2017-12-01 07:58:10

# Datalink statistics

-- Total of 3 flows:

Average throughput: 2.35 Mbit/s

95th percentile per-packet one-way delay: 53.127 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 0.88 Mbit/s

95th percentile per-packet one-way delay: 50.537 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 0.88 Mbit/s

95th percentile per-packet one-way delay: 53.177 ms

Loss rate: 0.00%

-- Flow 3:

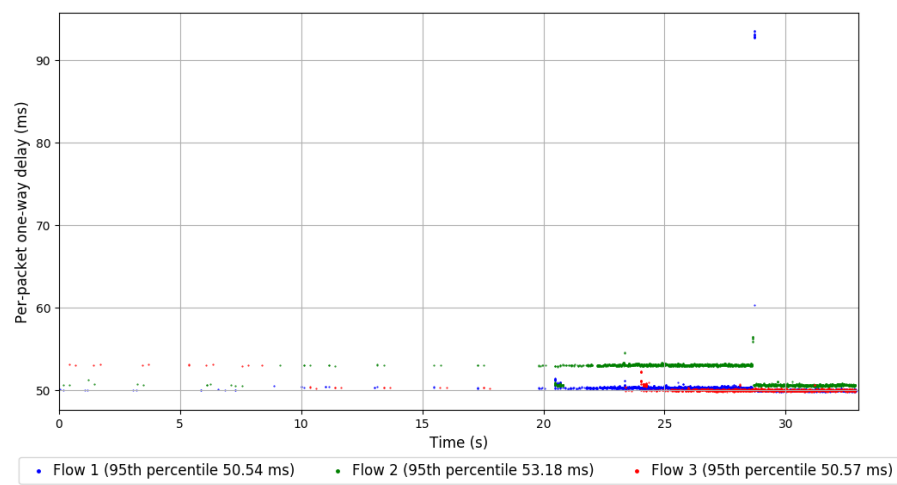
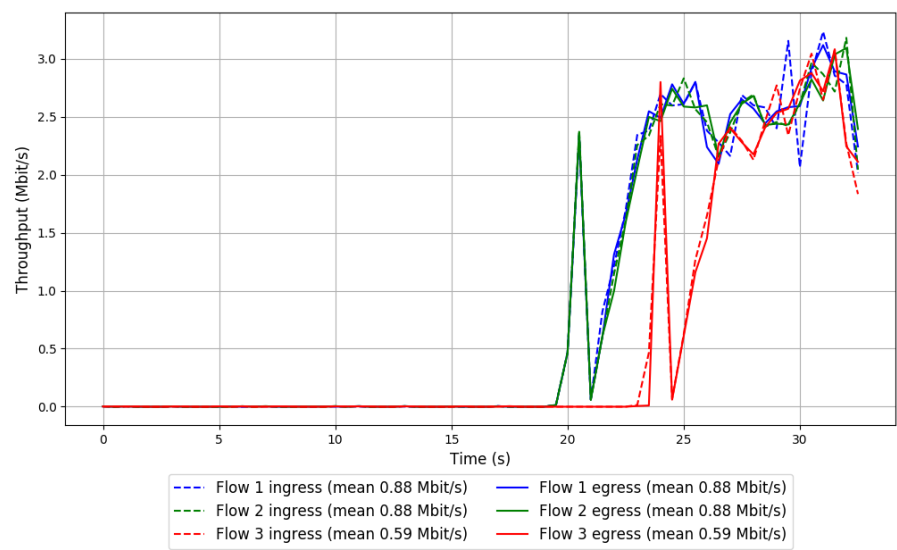
Average throughput: 0.59 Mbit/s

95th percentile per-packet one-way delay: 50.568 ms

Loss rate: 0.00%



Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2017-12-01 05:20:25

End at: 2017-12-01 05:20:55

# Below is generated by plot.py at 2017-12-01 07:58:10

# Datalink statistics

-- Total of 3 flows:

Average throughput: 1.61 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 51.041 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.56 Mbit/s

95th percentile per-packet one-way delay: 53.801 ms

Loss rate: 0.00%

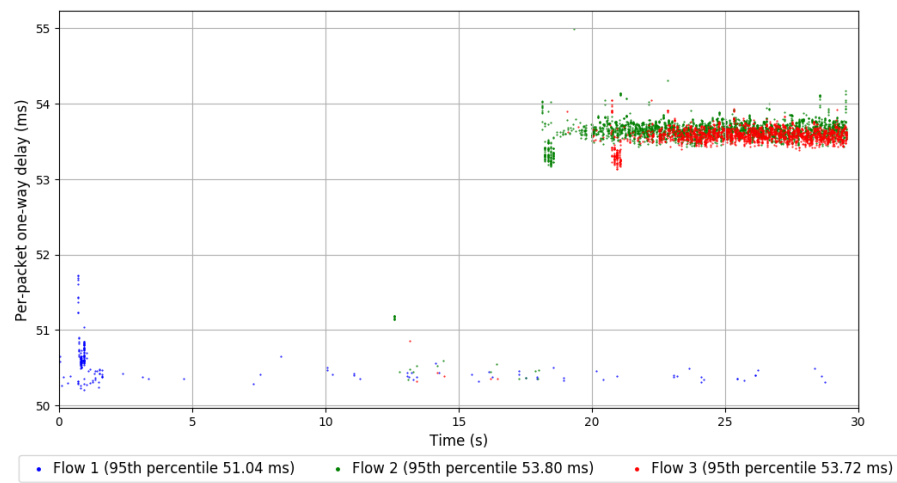
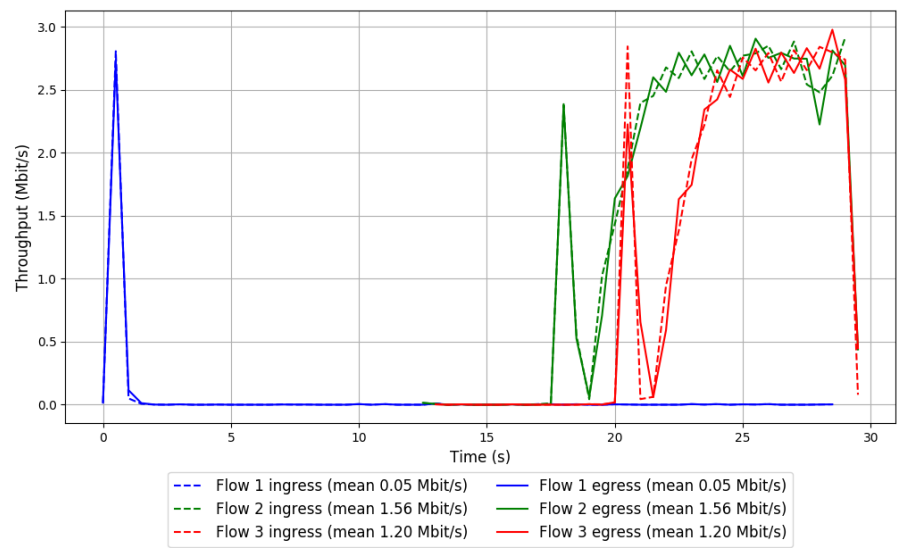
-- Flow 3:

Average throughput: 1.20 Mbit/s

95th percentile per-packet one-way delay: 53.717 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2017-12-01 05:32:30

End at: 2017-12-01 05:33:00

# Below is generated by plot.py at 2017-12-01 07:58:10

# Datalink statistics

-- Total of 3 flows:

Average throughput: 4.21 Mbit/s

95th percentile per-packet one-way delay: 53.737 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 53.767 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.41 Mbit/s

95th percentile per-packet one-way delay: 53.276 ms

Loss rate: 0.00%

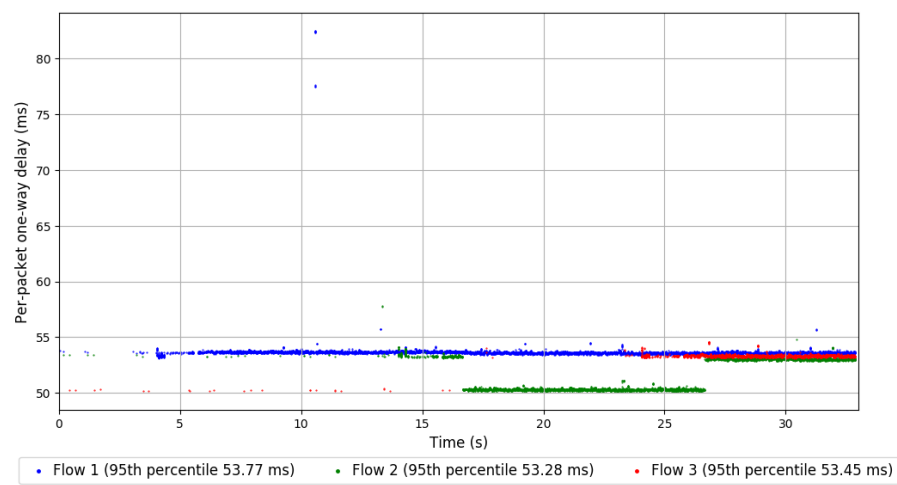
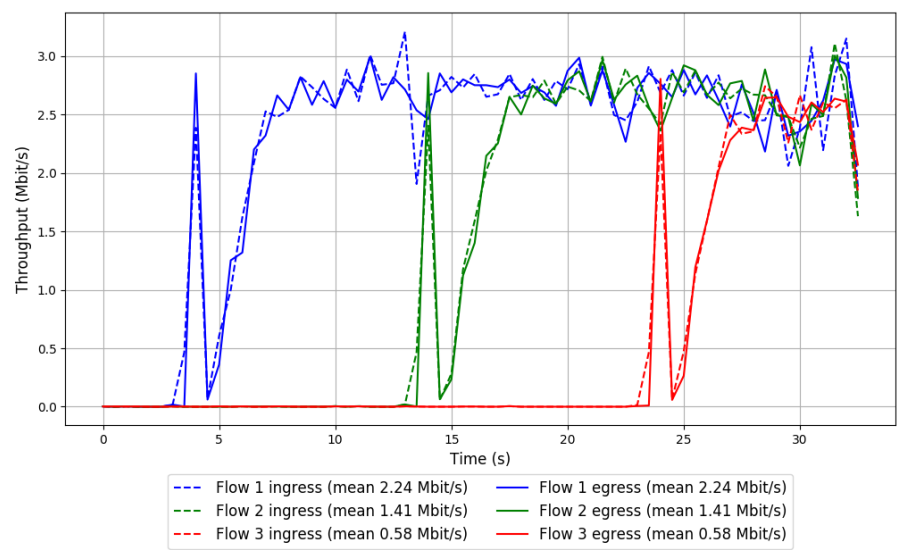
-- Flow 3:

Average throughput: 0.58 Mbit/s

95th percentile per-packet one-way delay: 53.453 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2017-12-01 05:44:37

End at: 2017-12-01 05:45:07

# Below is generated by plot.py at 2017-12-01 07:58:10

# Datalink statistics

-- Total of 3 flows:

Average throughput: 2.30 Mbit/s

95th percentile per-packet one-way delay: 53.459 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 53.179 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.63 Mbit/s

95th percentile per-packet one-way delay: 53.464 ms

Loss rate: 0.00%

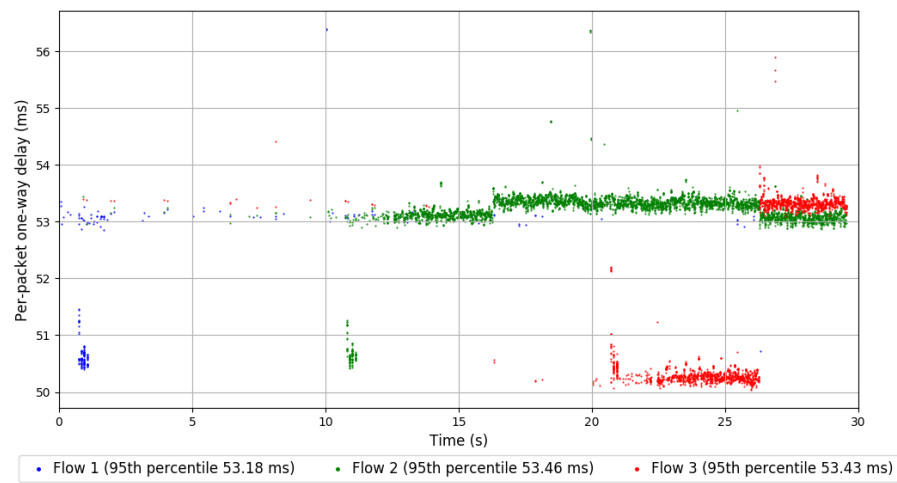
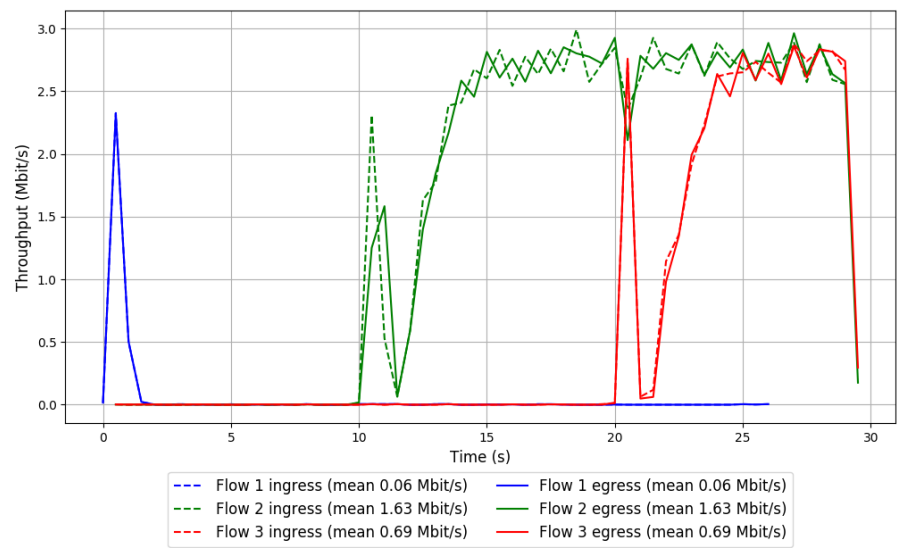
-- Flow 3:

Average throughput: 0.69 Mbit/s

95th percentile per-packet one-way delay: 53.429 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2017-12-01 05:56:22

End at: 2017-12-01 05:56:53

# Below is generated by plot.py at 2017-12-01 07:58:10

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.72 Mbit/s

95th percentile per-packet one-way delay: 53.368 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.71 Mbit/s

95th percentile per-packet one-way delay: 53.508 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.43 Mbit/s

95th percentile per-packet one-way delay: 53.122 ms

Loss rate: 0.00%

-- Flow 3:

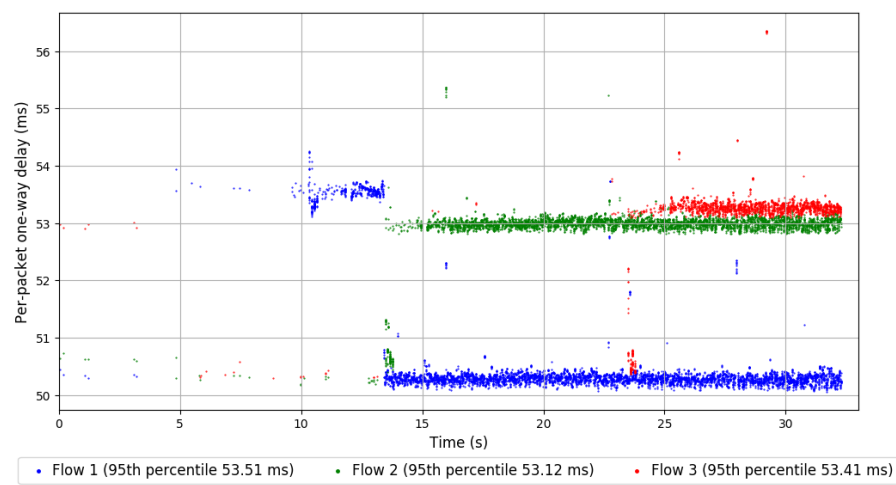
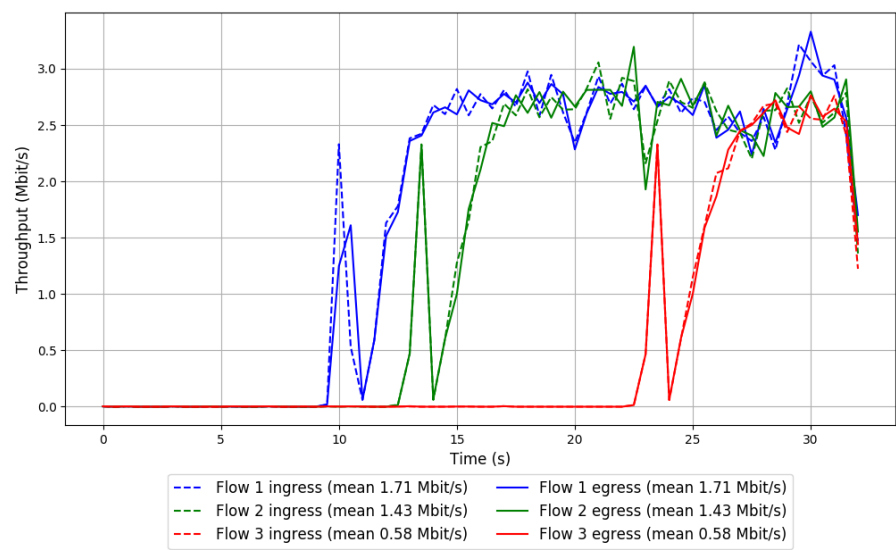
Average throughput: 0.58 Mbit/s

95th percentile per-packet one-way delay: 53.411 ms

Loss rate: 0.00%



Run 9: Report of WebRTC media — Data Link

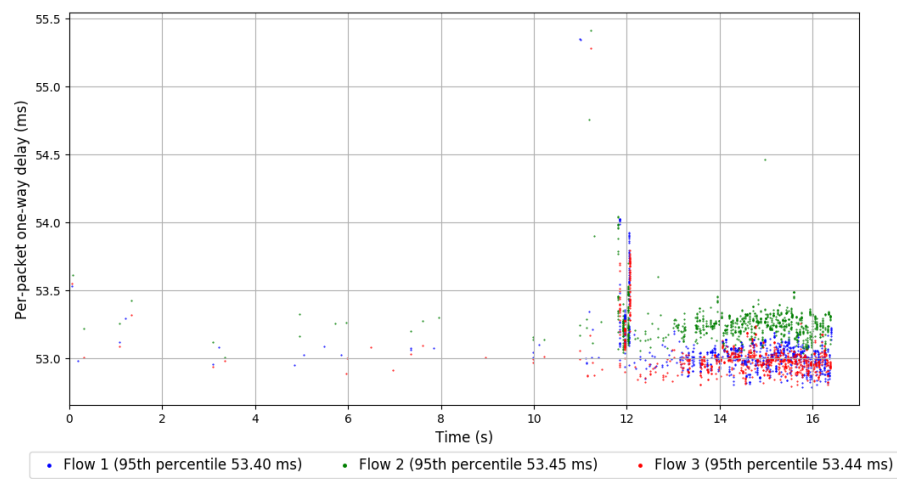
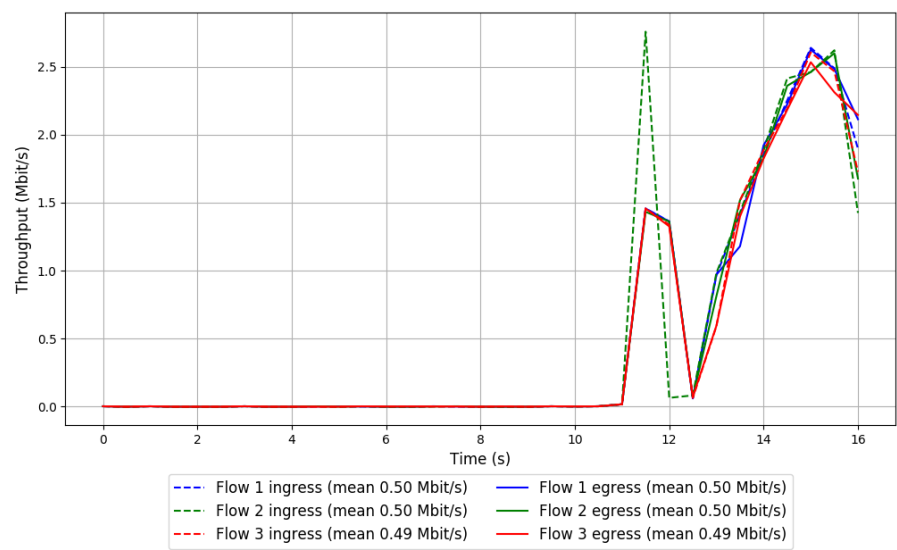


Run 10: Statistics of WebRTC media

Start at: 2017-12-01 06:08:39

End at: 2017-12-01 06:09:09

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2017-12-01 04:22:55

End at: 2017-12-01 04:23:25

# Below is generated by plot.py at 2017-12-01 07:58:10

# Datalink statistics

-- Total of 3 flows:

Average throughput: 15.47 Mbit/s

95th percentile per-packet one-way delay: 54.018 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 7.78 Mbit/s

95th percentile per-packet one-way delay: 54.099 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 7.79 Mbit/s

95th percentile per-packet one-way delay: 53.969 ms

Loss rate: 0.04%

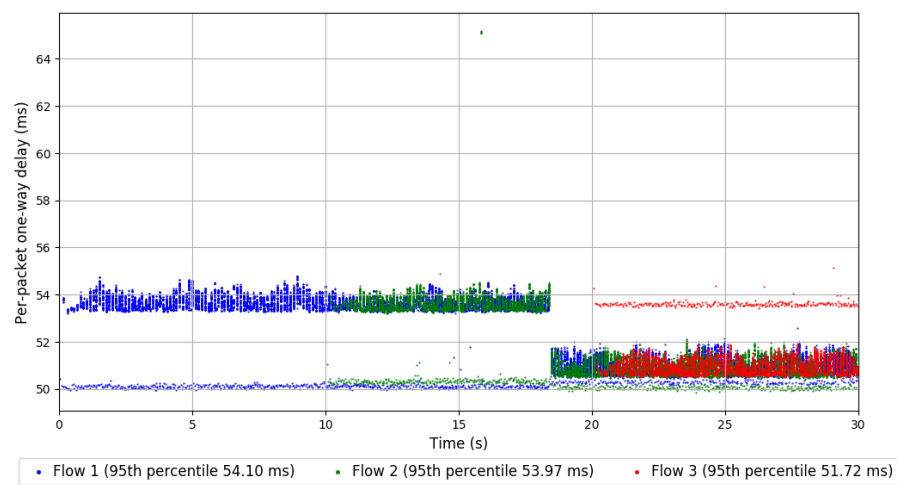
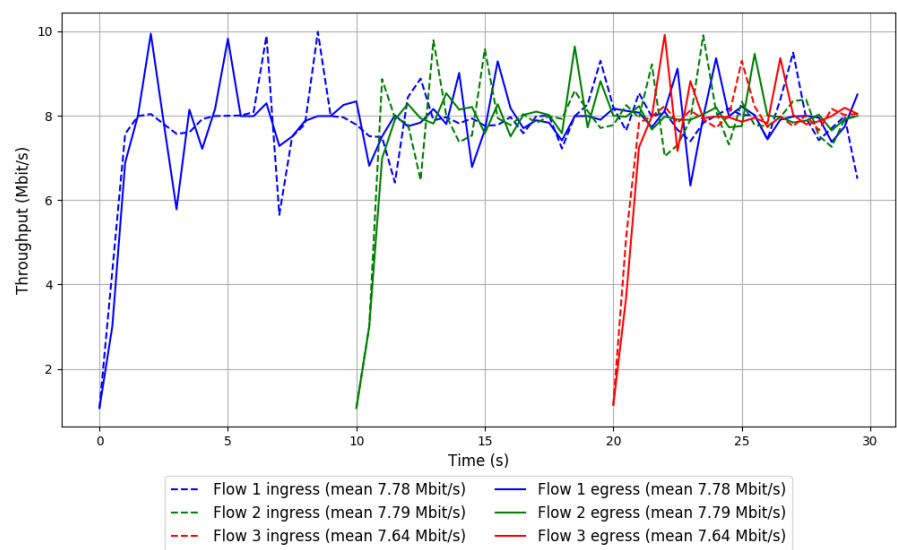
-- Flow 3:

Average throughput: 7.64 Mbit/s

95th percentile per-packet one-way delay: 51.719 ms

Loss rate: 0.00%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2017-12-01 04:34:45

End at: 2017-12-01 04:35:15

# Below is generated by plot.py at 2017-12-01 07:58:10

# Datalink statistics

-- Total of 3 flows:

Average throughput: 15.36 Mbit/s

95th percentile per-packet one-way delay: 53.952 ms

Loss rate: 0.26%

-- Flow 1:

Average throughput: 7.67 Mbit/s

95th percentile per-packet one-way delay: 53.892 ms

Loss rate: 0.48%

-- Flow 2:

Average throughput: 7.88 Mbit/s

95th percentile per-packet one-way delay: 54.109 ms

Loss rate: 0.05%

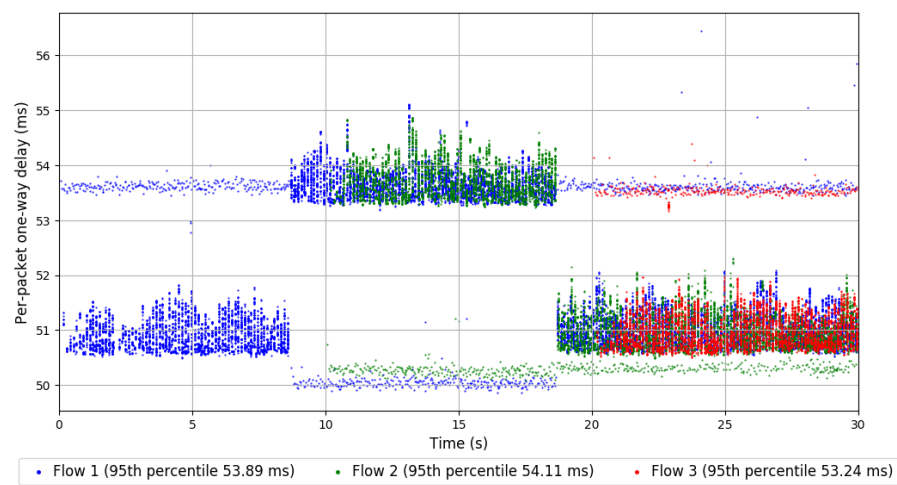
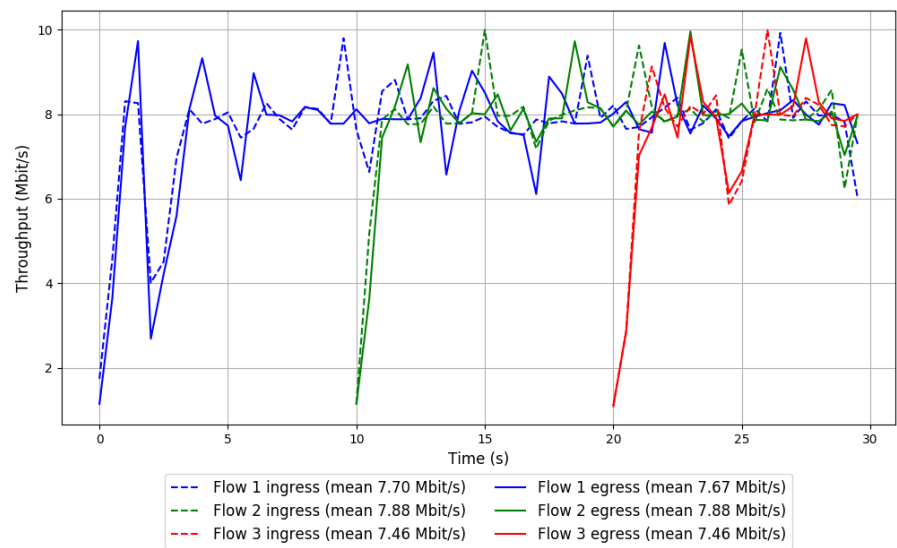
-- Flow 3:

Average throughput: 7.46 Mbit/s

95th percentile per-packet one-way delay: 53.236 ms

Loss rate: 0.00%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2017-12-01 04:46:47

End at: 2017-12-01 04:47:17

# Below is generated by plot.py at 2017-12-01 07:58:10

# Datalink statistics

-- Total of 3 flows:

Average throughput: 15.44 Mbit/s

95th percentile per-packet one-way delay: 54.234 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 7.85 Mbit/s

95th percentile per-packet one-way delay: 54.252 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 7.79 Mbit/s

95th percentile per-packet one-way delay: 54.271 ms

Loss rate: 0.00%

-- Flow 3:

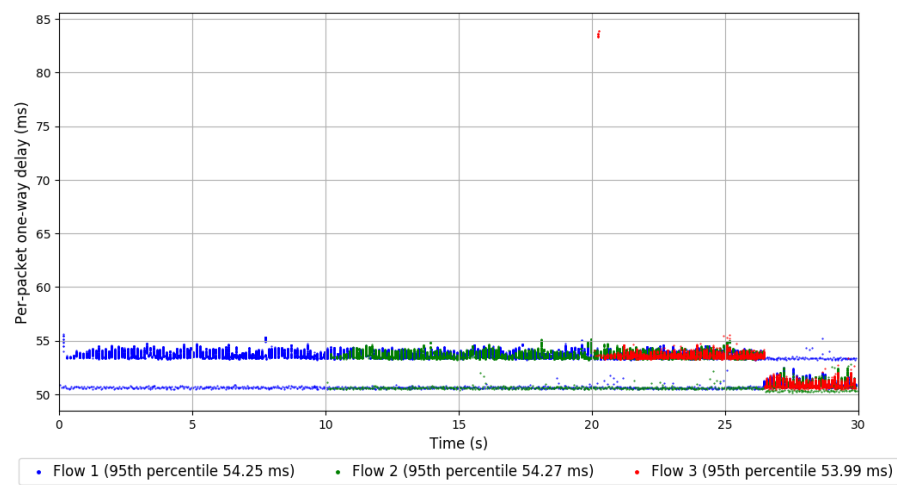
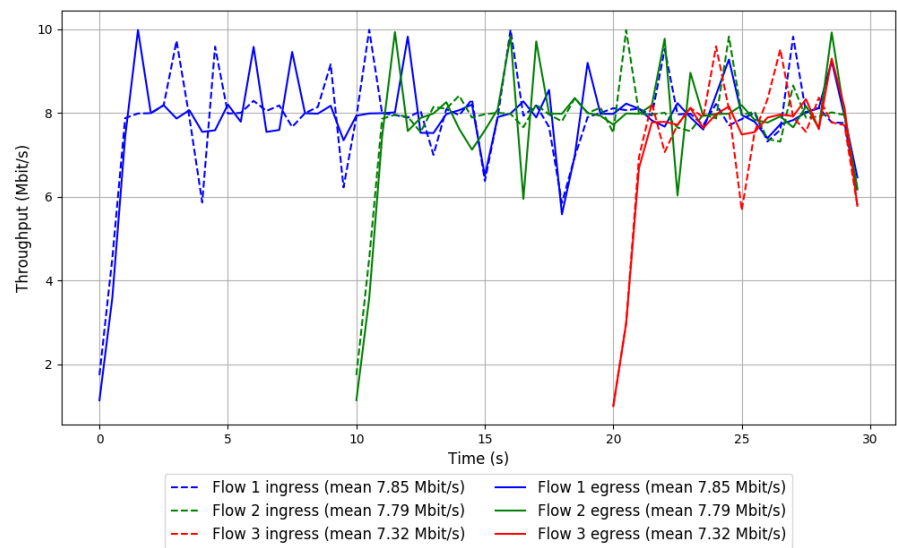
Average throughput: 7.32 Mbit/s

95th percentile per-packet one-way delay: 53.986 ms

Loss rate: 0.00%



Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2017-12-01 04:58:36

End at: 2017-12-01 04:59:06

# Below is generated by plot.py at 2017-12-01 07:58:10

# Datalink statistics

-- Total of 3 flows:

Average throughput: 15.29 Mbit/s

95th percentile per-packet one-way delay: 54.203 ms

Loss rate: 0.22%

-- Flow 1:

Average throughput: 7.77 Mbit/s

95th percentile per-packet one-way delay: 54.237 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 7.61 Mbit/s

95th percentile per-packet one-way delay: 54.196 ms

Loss rate: 0.47%

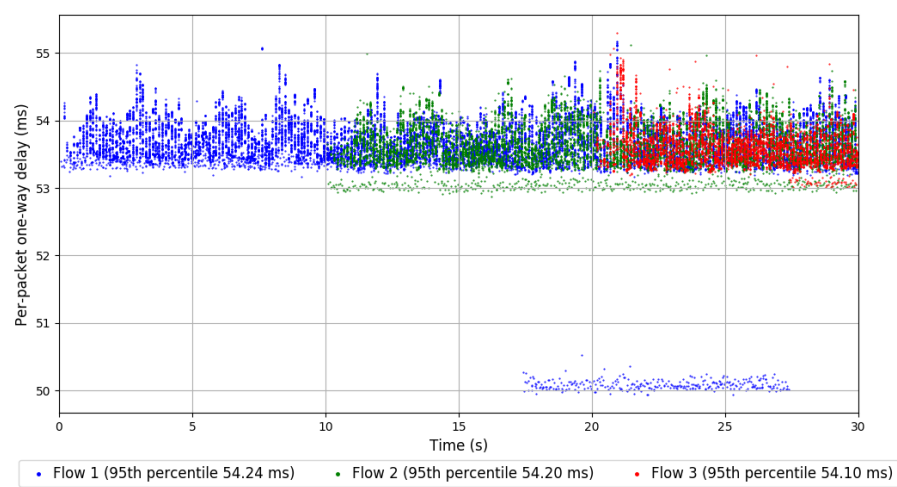
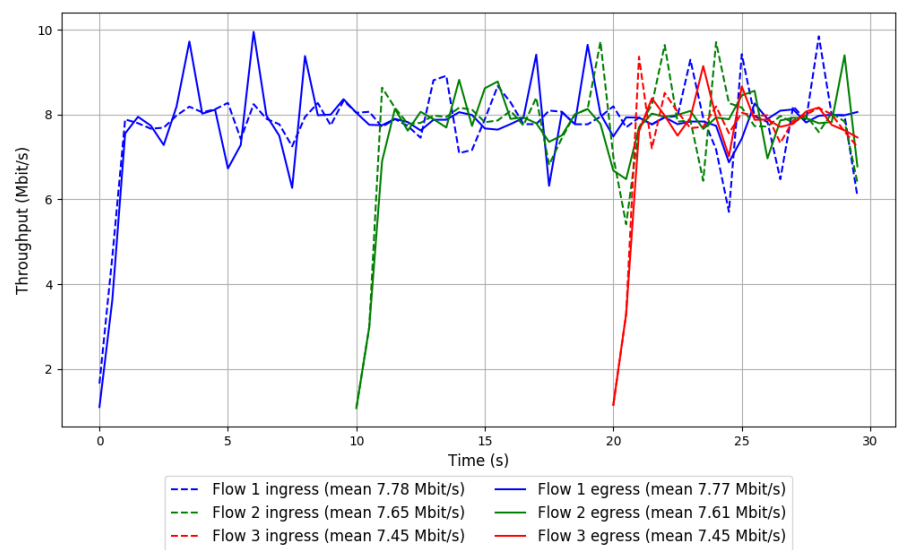
-- Flow 3:

Average throughput: 7.45 Mbit/s

95th percentile per-packet one-way delay: 54.101 ms

Loss rate: 0.00%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2017-12-01 05:10:20

End at: 2017-12-01 05:10:50

# Below is generated by plot.py at 2017-12-01 07:58:10

# Datalink statistics

-- Total of 3 flows:

Average throughput: 15.43 Mbit/s

95th percentile per-packet one-way delay: 54.111 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 7.76 Mbit/s

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

Loss rate: 0.03%

-- Flow 2:

Average throughput: 7.74 Mbit/s

95th percentile per-packet one-way delay: 54.254 ms

Loss rate: 0.03%

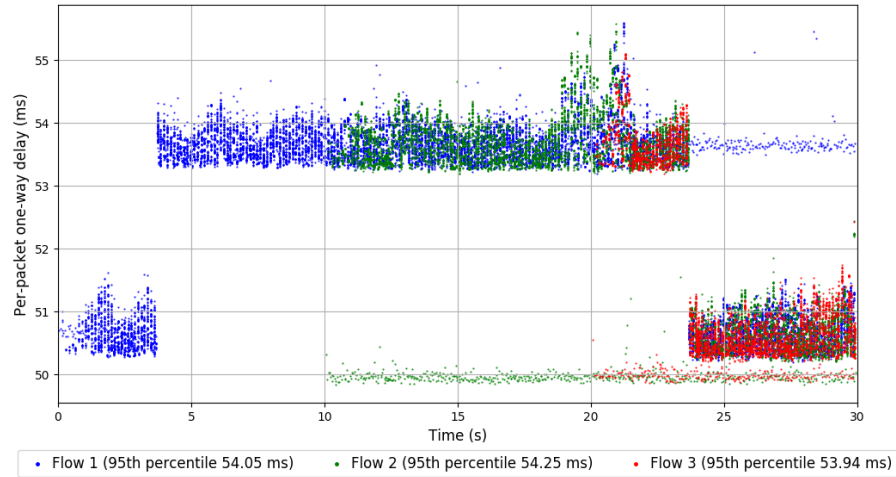
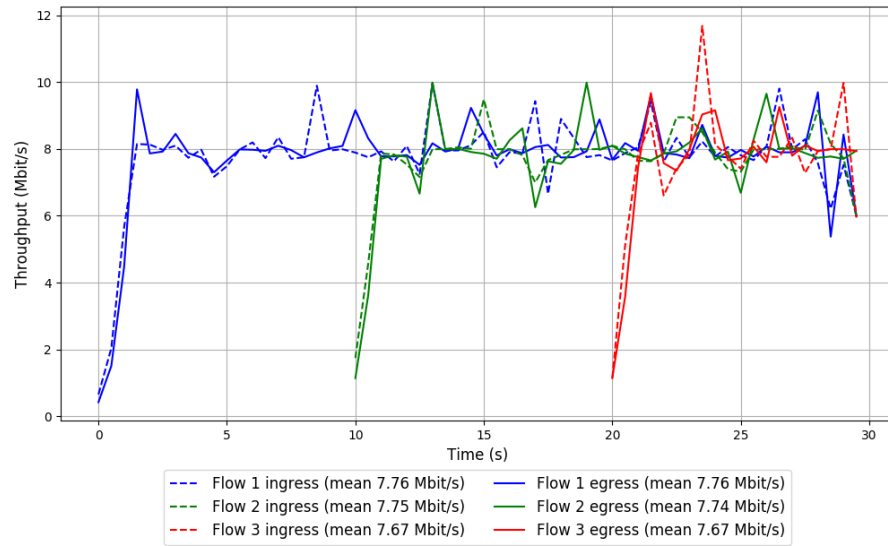
-- Flow 3:

Average throughput: 7.67 Mbit/s

95th percentile per-packet one-way delay: 53.935 ms

Loss rate: 0.00%

## Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2017-12-01 05:22:07

End at: 2017-12-01 05:22:37

# Below is generated by plot.py at 2017-12-01 07:58:10

# Datalink statistics

-- Total of 3 flows:

Average throughput: 15.48 Mbit/s

95th percentile per-packet one-way delay: 54.076 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 7.79 Mbit/s

95th percentile per-packet one-way delay: 54.072 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 7.81 Mbit/s

95th percentile per-packet one-way delay: 54.025 ms

Loss rate: 0.02%

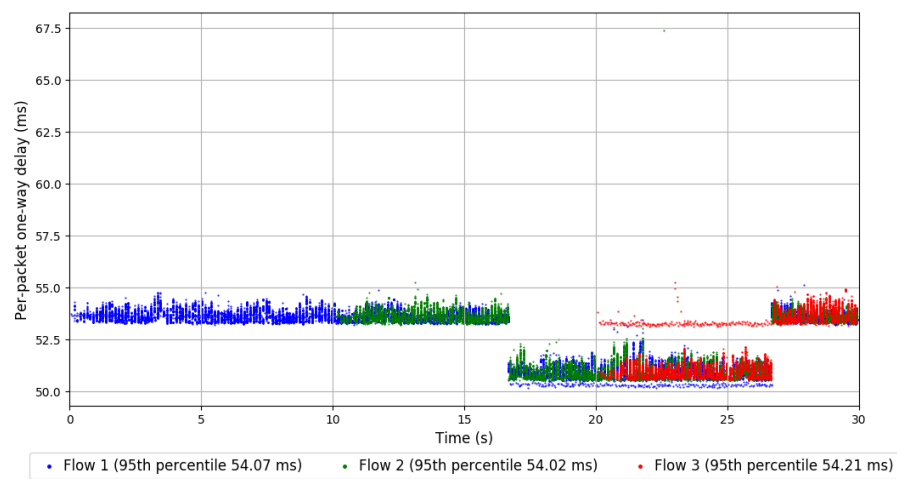
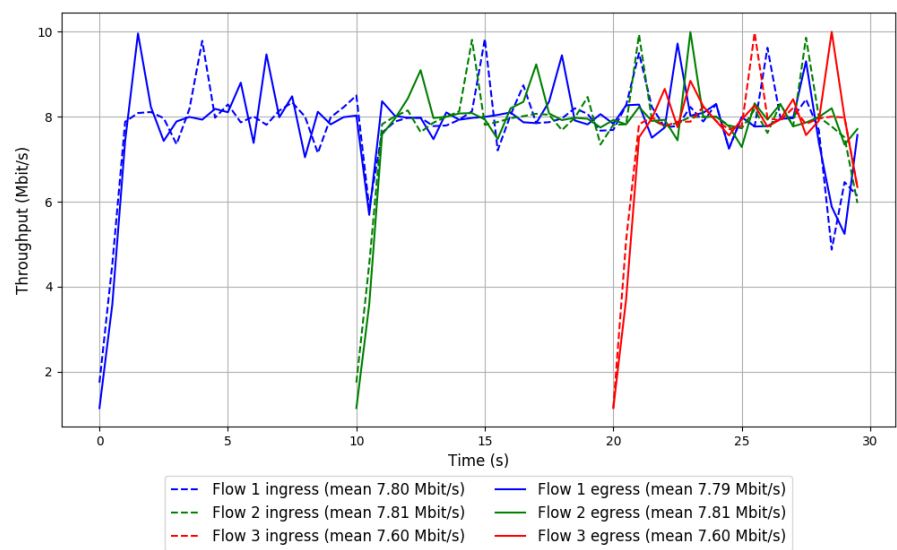
-- Flow 3:

Average throughput: 7.60 Mbit/s

95th percentile per-packet one-way delay: 54.210 ms

Loss rate: 0.00%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2017-12-01 05:34:11

End at: 2017-12-01 05:34:41

# Below is generated by plot.py at 2017-12-01 07:58:10

# Datalink statistics

-- Total of 3 flows:

Average throughput: 15.38 Mbit/s

95th percentile per-packet one-way delay: 54.200 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 7.82 Mbit/s

95th percentile per-packet one-way delay: 54.138 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 7.71 Mbit/s

95th percentile per-packet one-way delay: 54.294 ms

Loss rate: 0.29%

-- Flow 3:

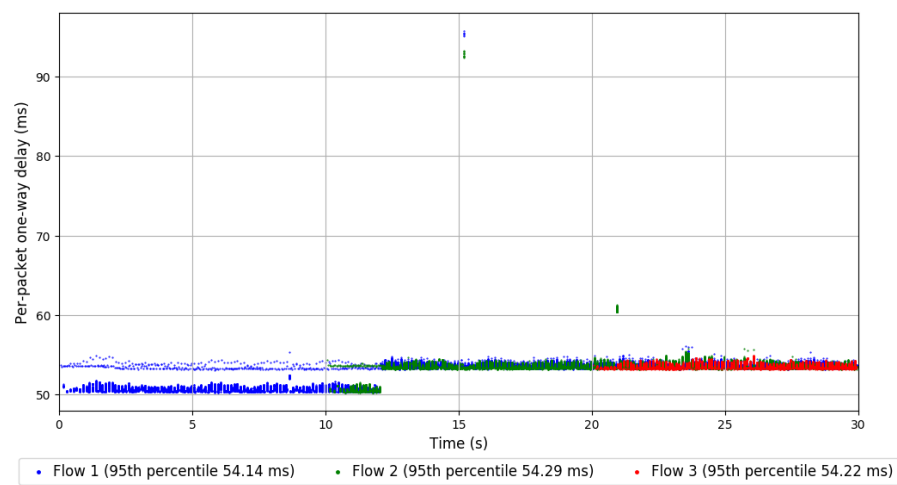
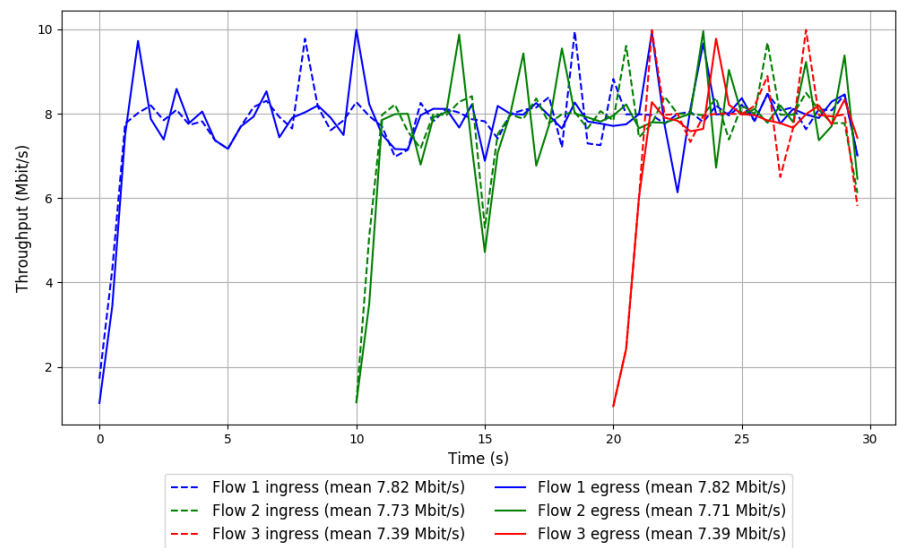
Average throughput: 7.39 Mbit/s

95th percentile per-packet one-way delay: 54.220 ms

Loss rate: 0.00%



Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2017-12-01 05:46:19

End at: 2017-12-01 05:46:49

# Below is generated by plot.py at 2017-12-01 07:58:10

# Datalink statistics

-- Total of 3 flows:

Average throughput: 15.15 Mbit/s

95th percentile per-packet one-way delay: 54.105 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 7.66 Mbit/s

95th percentile per-packet one-way delay: 54.132 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 7.70 Mbit/s

95th percentile per-packet one-way delay: 54.096 ms

Loss rate: 0.00%

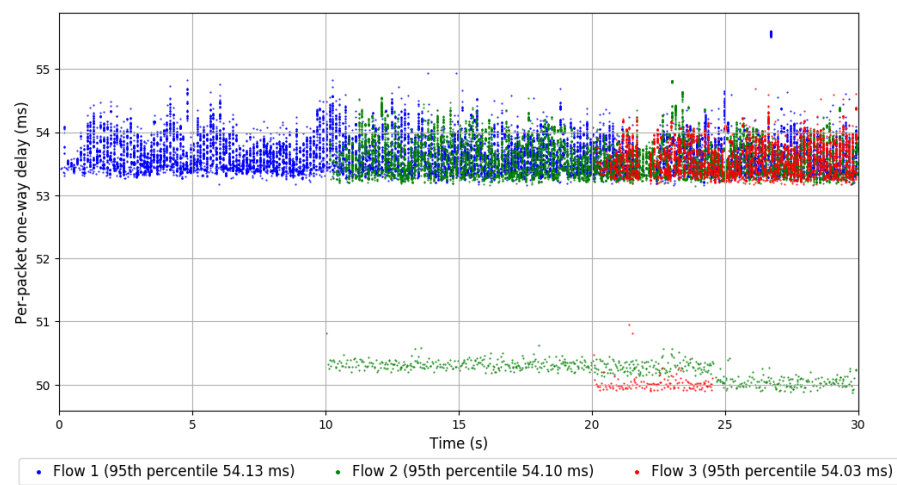
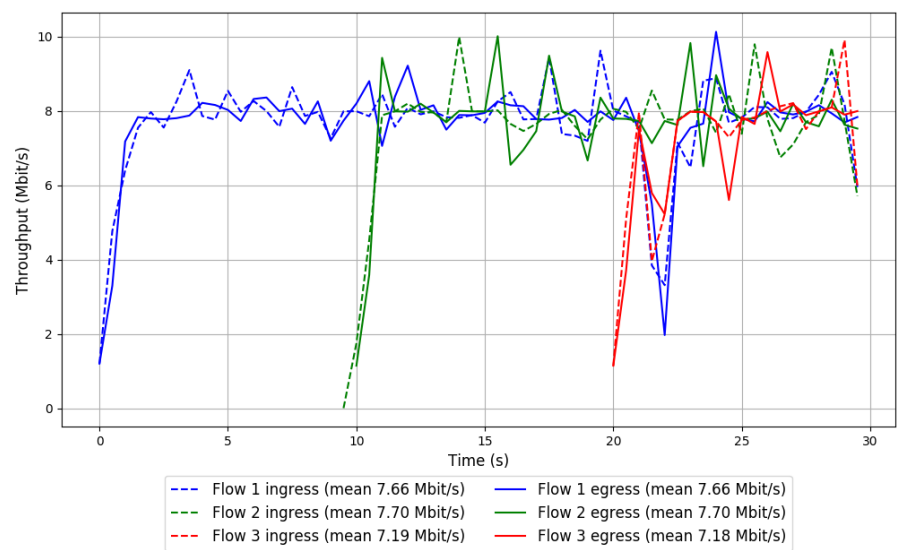
-- Flow 3:

Average throughput: 7.18 Mbit/s

95th percentile per-packet one-way delay: 54.027 ms

Loss rate: 0.00%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2017-12-01 05:58:05

End at: 2017-12-01 05:58:35

# Below is generated by plot.py at 2017-12-01 07:58:10

# Datalink statistics

-- Total of 3 flows:

Average throughput: 15.27 Mbit/s

95th percentile per-packet one-way delay: 53.848 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 7.75 Mbit/s

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

Loss rate: 0.03%

-- Flow 2:

Average throughput: 7.63 Mbit/s

95th percentile per-packet one-way delay: 53.873 ms

Loss rate: 0.02%

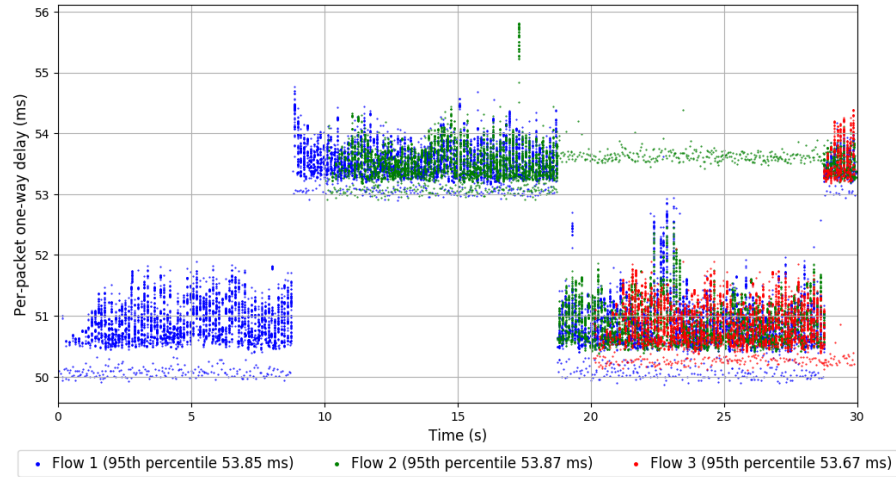
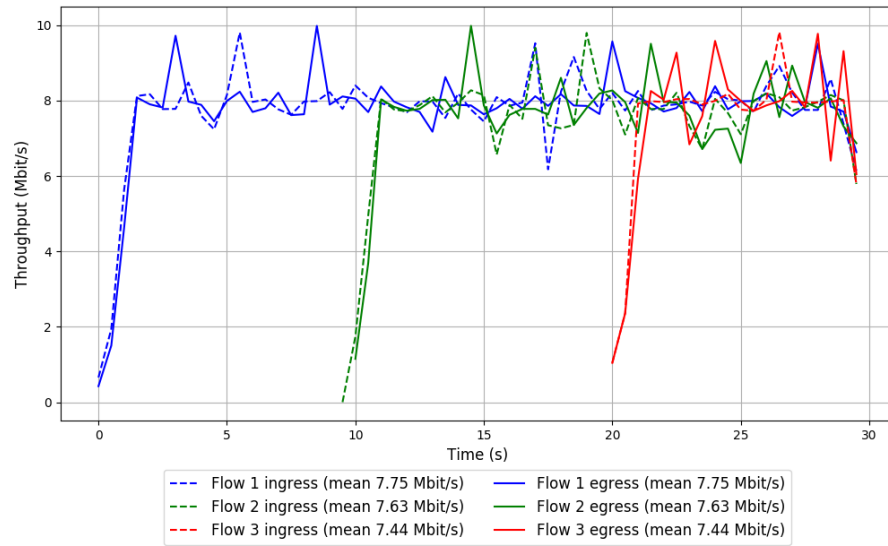
-- Flow 3:

Average throughput: 7.44 Mbit/s

95th percentile per-packet one-way delay: 53.669 ms

Loss rate: 0.00%

## Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2017-12-01 06:10:21

End at: 2017-12-01 06:10:51

# Below is generated by plot.py at 2017-12-01 07:58:10

# Datalink statistics

-- Total of 3 flows:

Average throughput: 15.04 Mbit/s

95th percentile per-packet one-way delay: 54.078 ms

Loss rate: 0.42%

-- Flow 1:

Average throughput: 7.65 Mbit/s

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

Loss rate: 0.46%

-- Flow 2:

Average throughput: 7.69 Mbit/s

95th percentile per-packet one-way delay: 54.117 ms

Loss rate: 0.52%

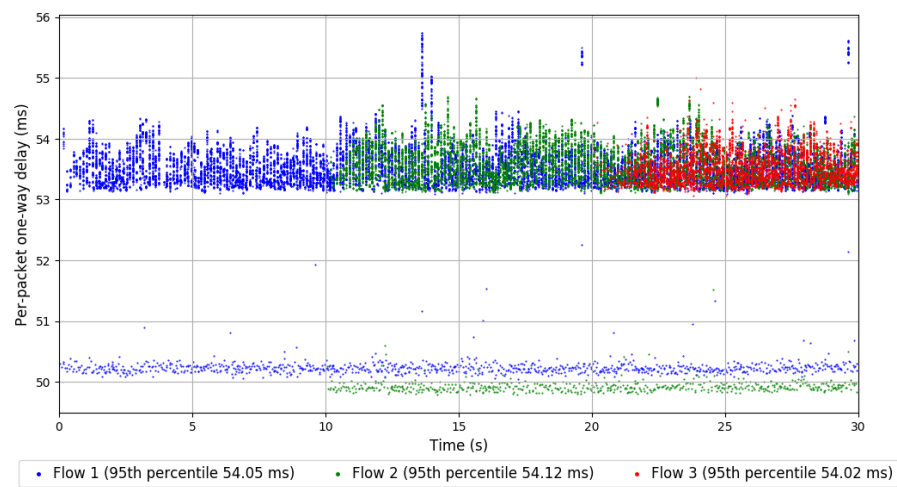
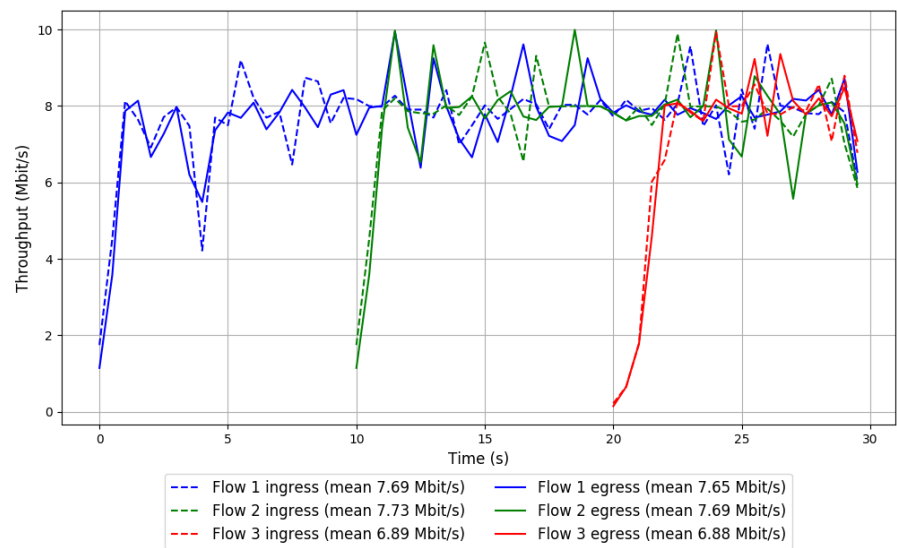
-- Flow 3:

Average throughput: 6.88 Mbit/s

95th percentile per-packet one-way delay: 54.025 ms

Loss rate: 0.05%

Run 10: Report of Sprout — Data Link



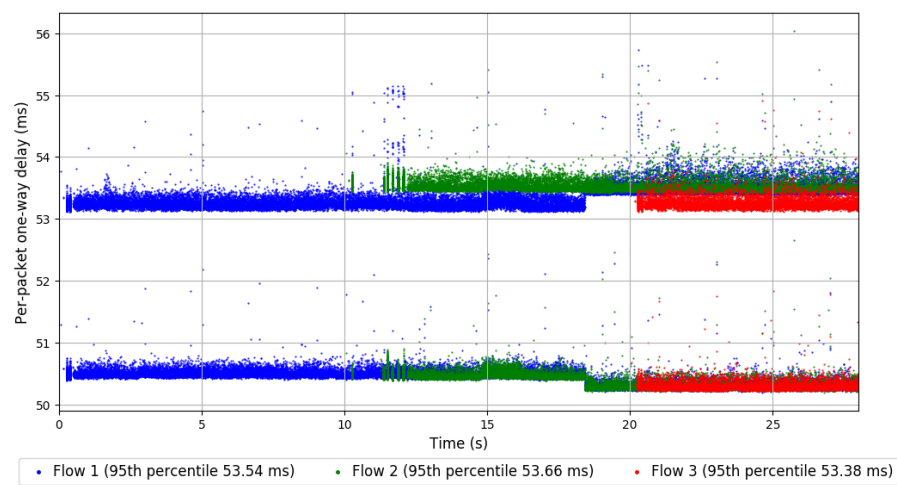
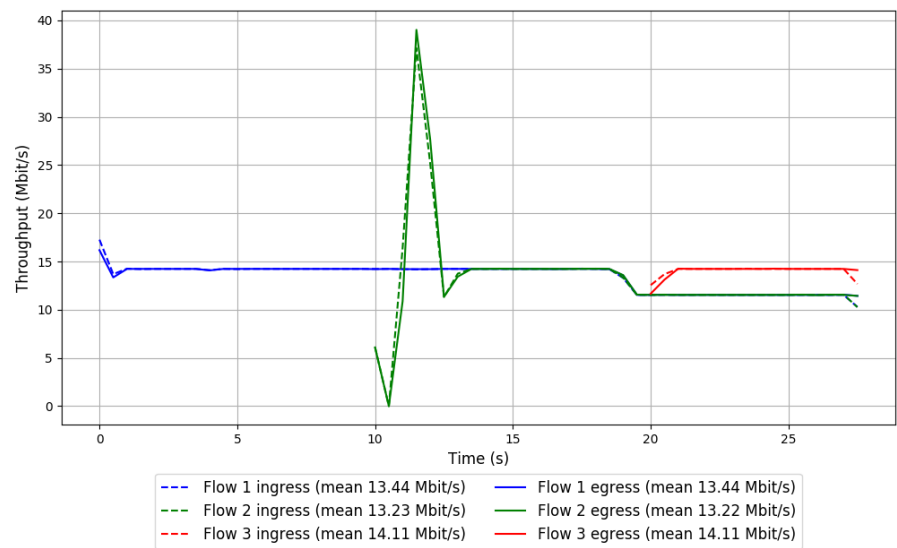
```
Run 1: Statistics of TaoVA-100x

Start at: 2017-12-01 04:26:33
End at: 2017-12-01 04:27:03

# Below is generated by plot.py at 2017-12-01 07:58:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 25.94 Mbit/s
95th percentile per-packet one-way delay: 53.596 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 13.44 Mbit/s
95th percentile per-packet one-way delay: 53.540 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 13.22 Mbit/s
95th percentile per-packet one-way delay: 53.661 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 14.11 Mbit/s
95th percentile per-packet one-way delay: 53.380 ms
Loss rate: 0.00%
```



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

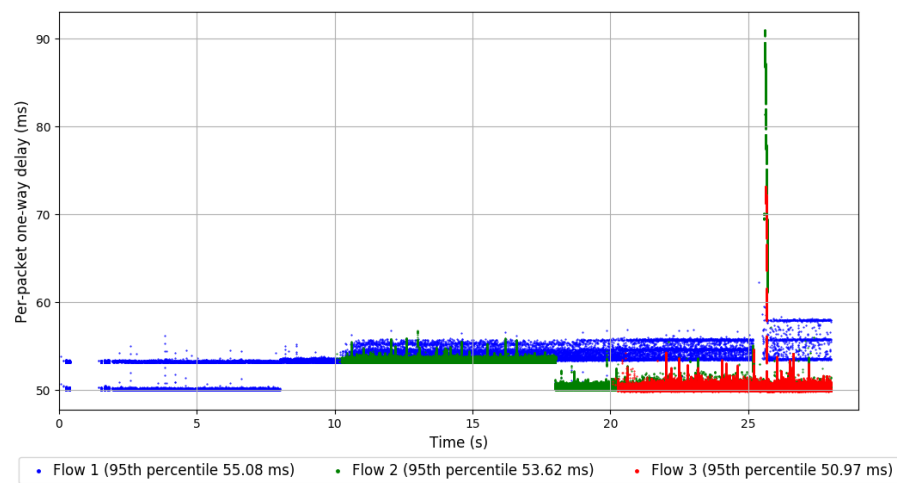
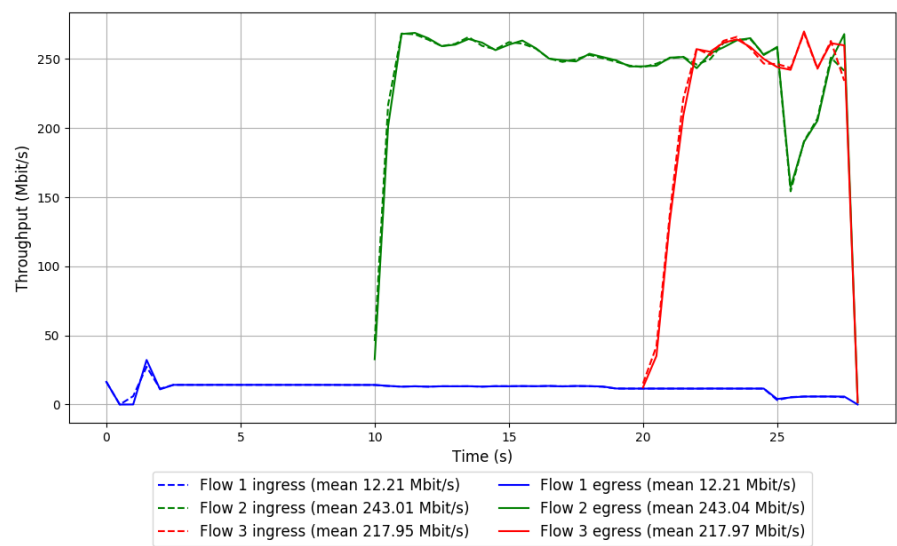


```
Run 2: Statistics of TaoVA-100x

Start at: 2017-12-01 04:38:14
End at: 2017-12-01 04:38:44

# Below is generated by plot.py at 2017-12-01 07:58:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 230.08 Mbit/s
95th percentile per-packet one-way delay: 53.612 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 12.21 Mbit/s
95th percentile per-packet one-way delay: 55.075 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 243.04 Mbit/s
95th percentile per-packet one-way delay: 53.620 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 217.97 Mbit/s
95th percentile per-packet one-way delay: 50.967 ms
Loss rate: 0.00%
```

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

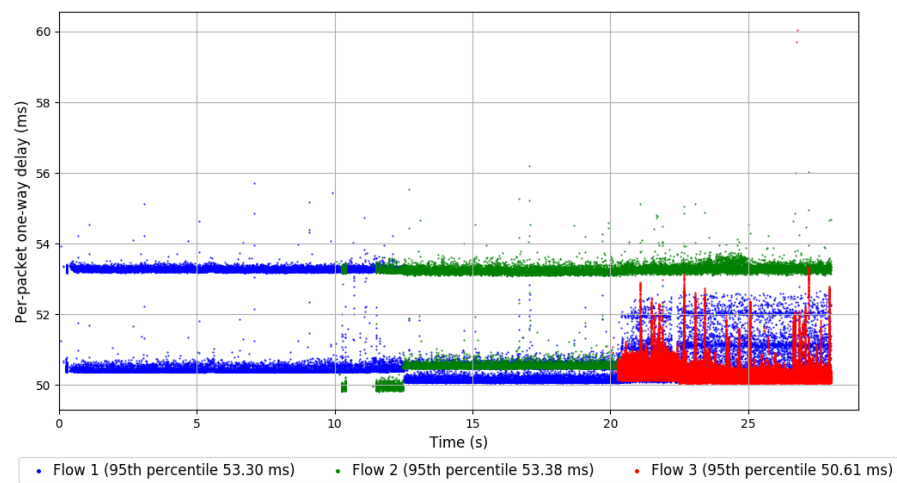
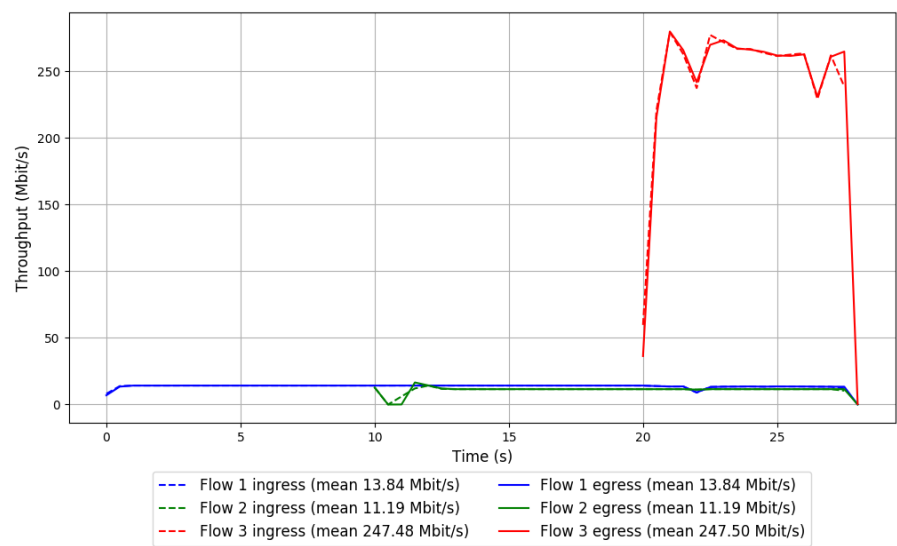


```
Run 3: Statistics of TaoVA-100x

Start at: 2017-12-01 04:50:19
End at: 2017-12-01 04:50:49

# Below is generated by plot.py at 2017-12-01 07:58:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.21 Mbit/s
95th percentile per-packet one-way delay: 53.227 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 13.84 Mbit/s
95th percentile per-packet one-way delay: 53.298 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 11.19 Mbit/s
95th percentile per-packet one-way delay: 53.384 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 247.50 Mbit/s
95th percentile per-packet one-way delay: 50.608 ms
Loss rate: 0.00%
```

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

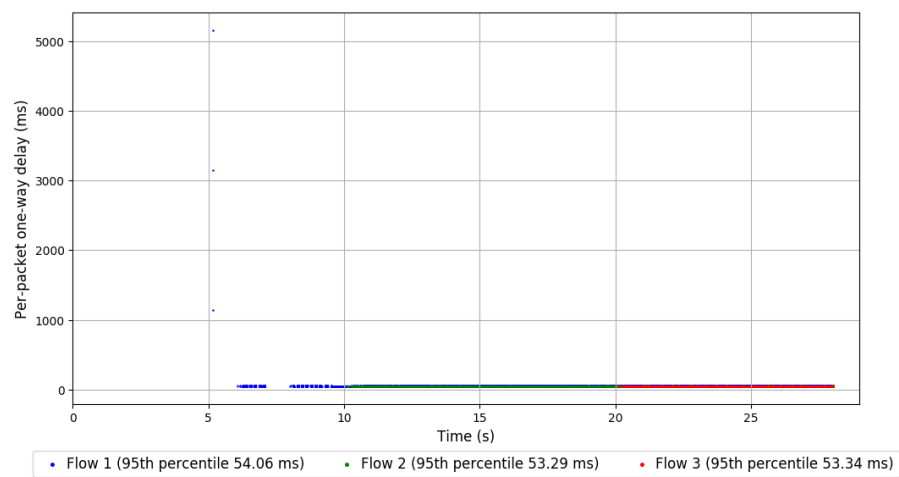
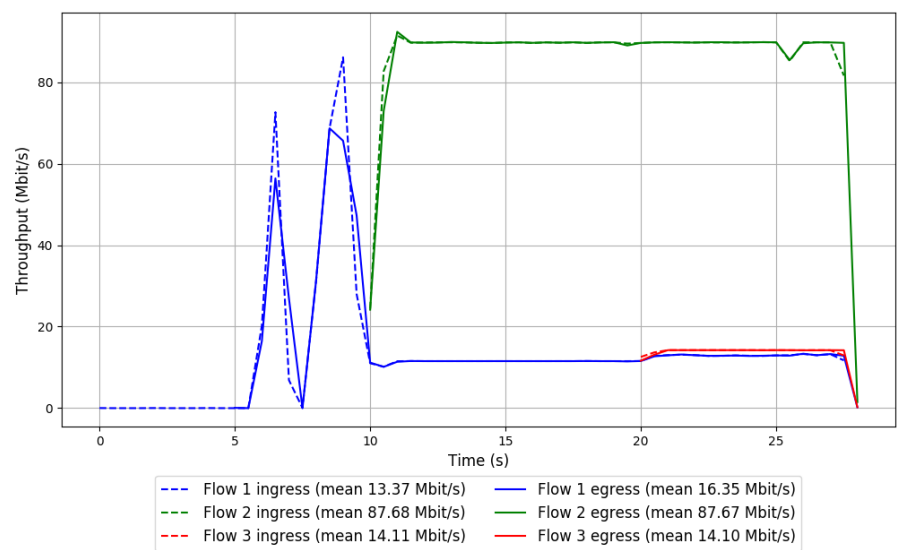


Run 4: Statistics of TaoVA-100x

Start at: 2017-12-01 05:02:12

End at: 2017-12-01 05:02:42

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



Run 5: Statistics of TaoVA-100x

Start at: 2017-12-01 05:13:55

End at: 2017-12-01 05:14:25

# Below is generated by plot.py at 2017-12-01 07:58:58

# Datalink statistics

-- Total of 3 flows:

Average throughput: 84.19 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 12.09 Mbit/s

95th percentile per-packet one-way delay: 53.654 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 105.48 Mbit/s

95th percentile per-packet one-way delay: 53.151 ms

Loss rate: 0.00%

-- Flow 3:

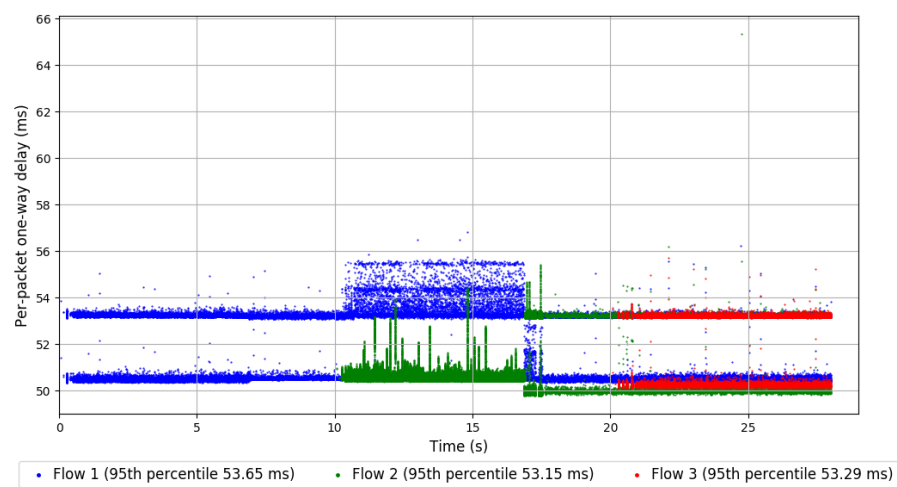
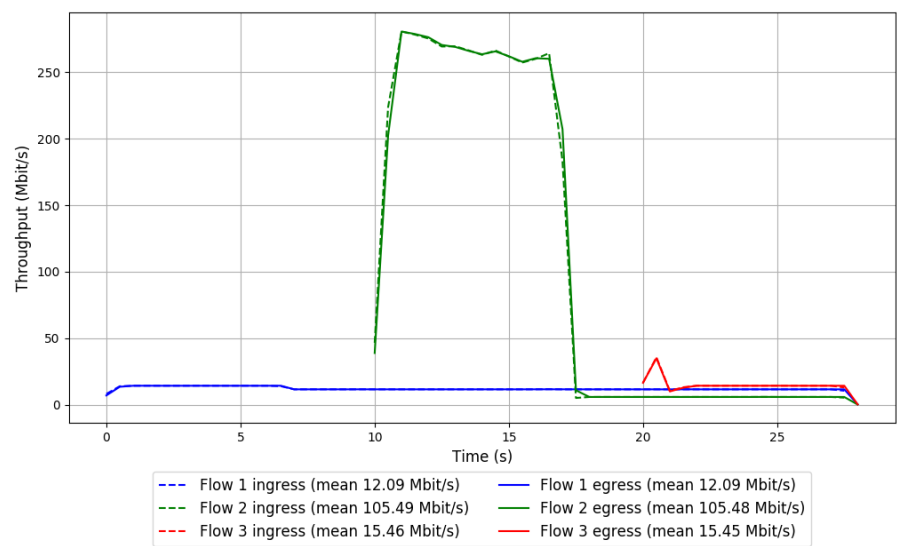
Average throughput: 15.45 Mbit/s

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

Loss rate: 0.00%



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



Run 6: Statistics of TaoVA-100x

Start at: 2017-12-01 05:25:38

End at: 2017-12-01 05:26:08

# Below is generated by plot.py at 2017-12-01 08:02:33

# Datalink statistics

-- Total of 3 flows:

Average throughput: 325.60 Mbit/s

95th percentile per-packet one-way delay: 53.603 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 227.12 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 52.33 Mbit/s

95th percentile per-packet one-way delay: 53.240 ms

Loss rate: 0.00%

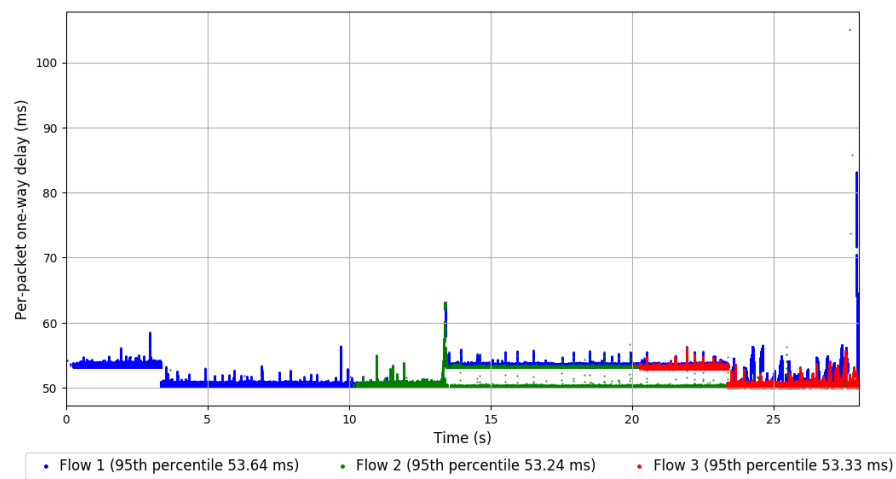
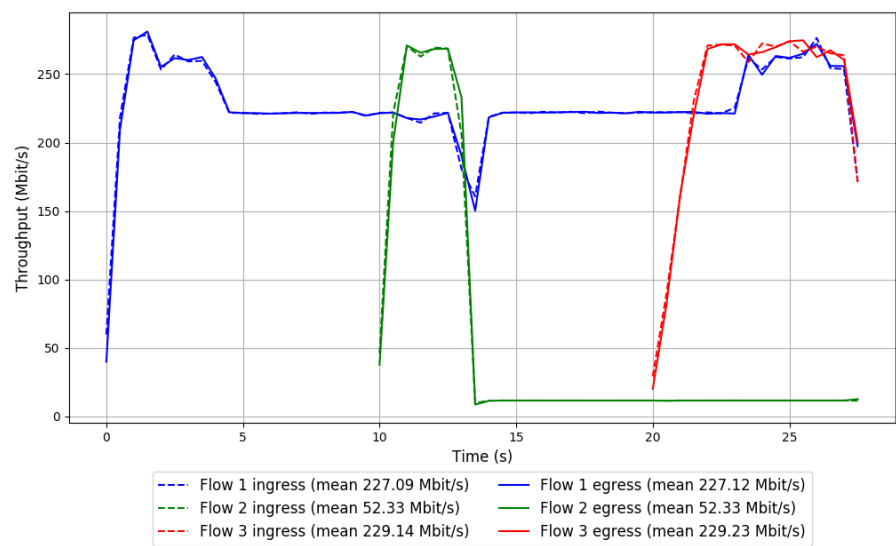
-- Flow 3:

Average throughput: 229.23 Mbit/s

95th percentile per-packet one-way delay: 53.328 ms

Loss rate: 0.00%

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

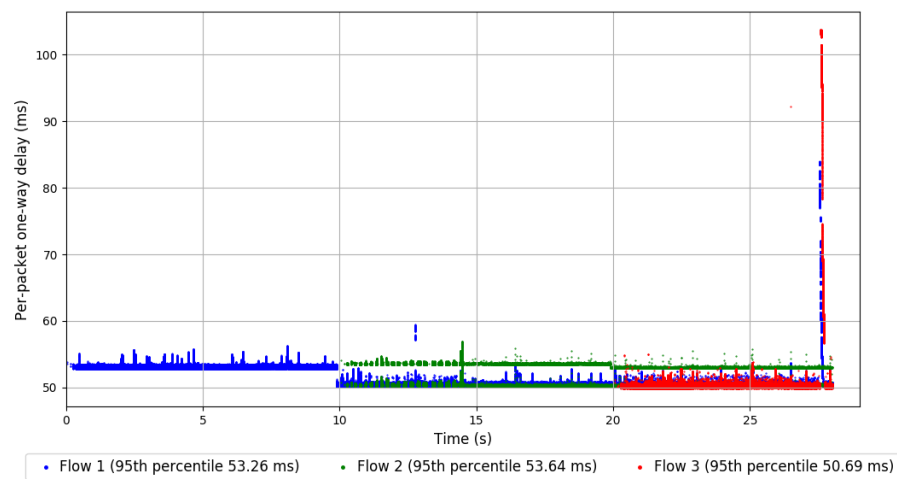
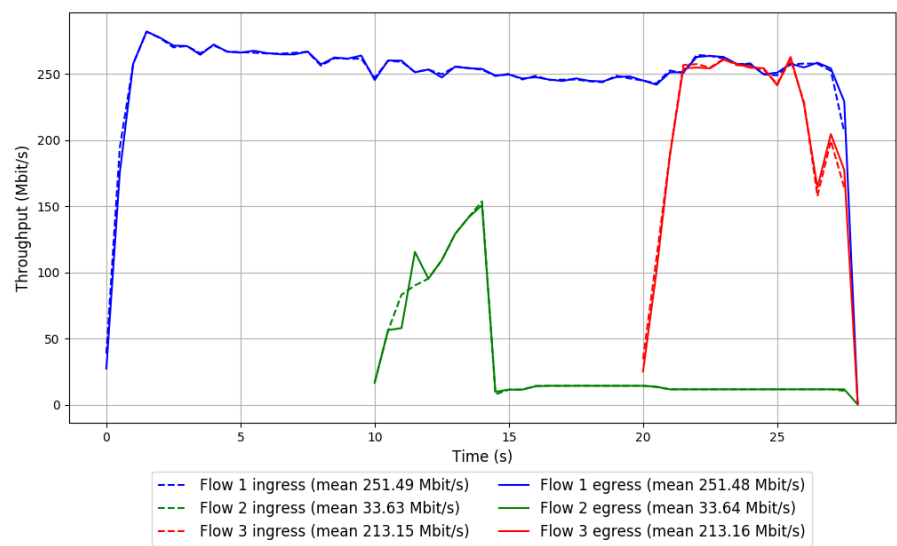


```
Run 7: Statistics of TaoVA-100x

Start at: 2017-12-01 05:37:42
End at: 2017-12-01 05:38:12

# Below is generated by plot.py at 2017-12-01 08:02:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 333.60 Mbit/s
95th percentile per-packet one-way delay: 53.304 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 251.48 Mbit/s
95th percentile per-packet one-way delay: 53.263 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 33.64 Mbit/s
95th percentile per-packet one-way delay: 53.638 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 213.16 Mbit/s
95th percentile per-packet one-way delay: 50.694 ms
Loss rate: 0.01%
```

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



Run 8: Statistics of TaoVA-100x

Start at: 2017-12-01 05:49:56

End at: 2017-12-01 05:50:26

# Below is generated by plot.py at 2017-12-01 08:02:58

# Datalink statistics

-- Total of 3 flows:

Average throughput: 29.43 Mbit/s

95th percentile per-packet one-way delay: 53.269 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 13.12 Mbit/s

95th percentile per-packet one-way delay: 53.270 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 15.88 Mbit/s

95th percentile per-packet one-way delay: 53.226 ms

Loss rate: 0.00%

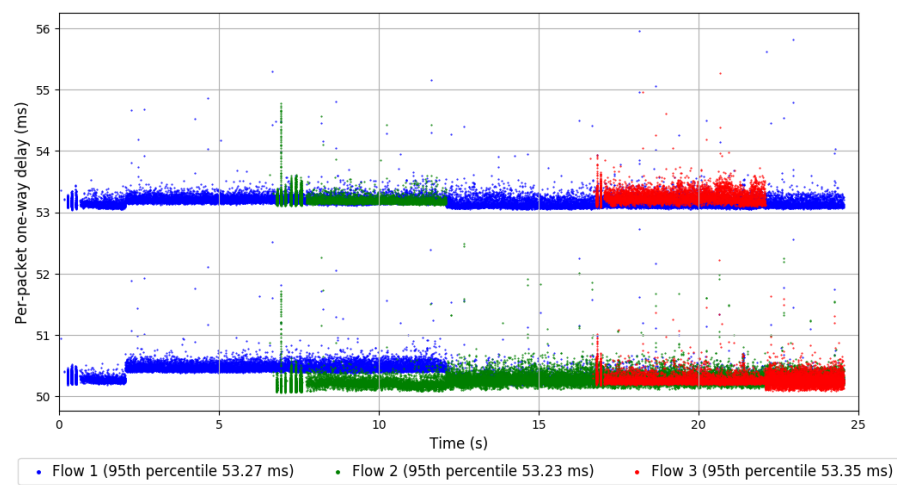
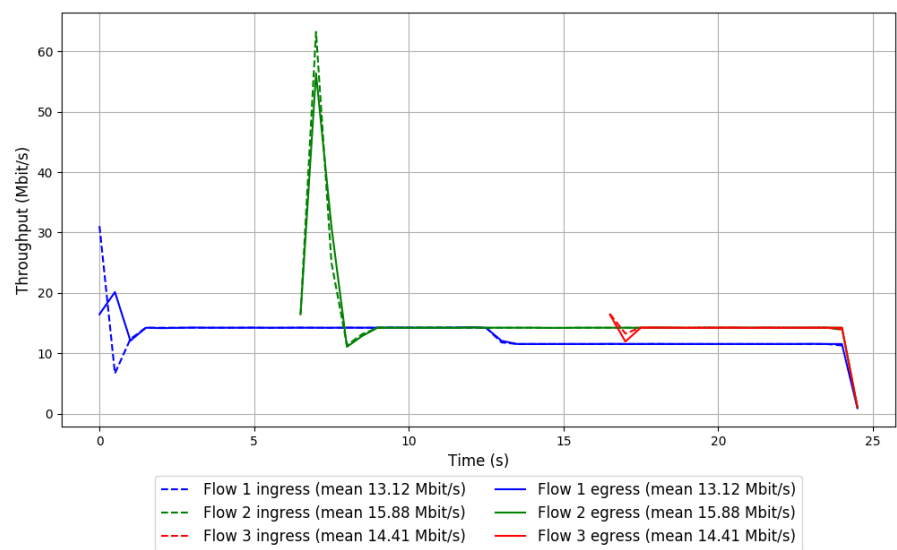
-- Flow 3:

Average throughput: 14.41 Mbit/s

95th percentile per-packet one-way delay: 53.353 ms

Loss rate: 0.00%

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



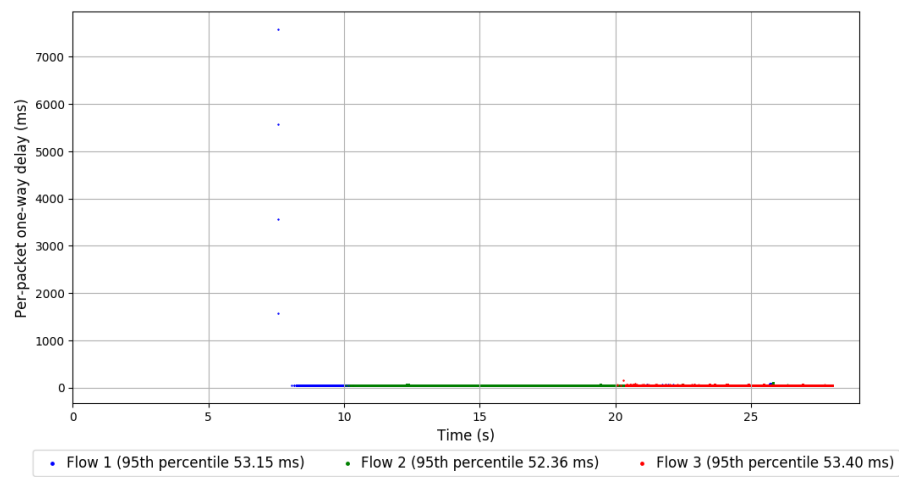
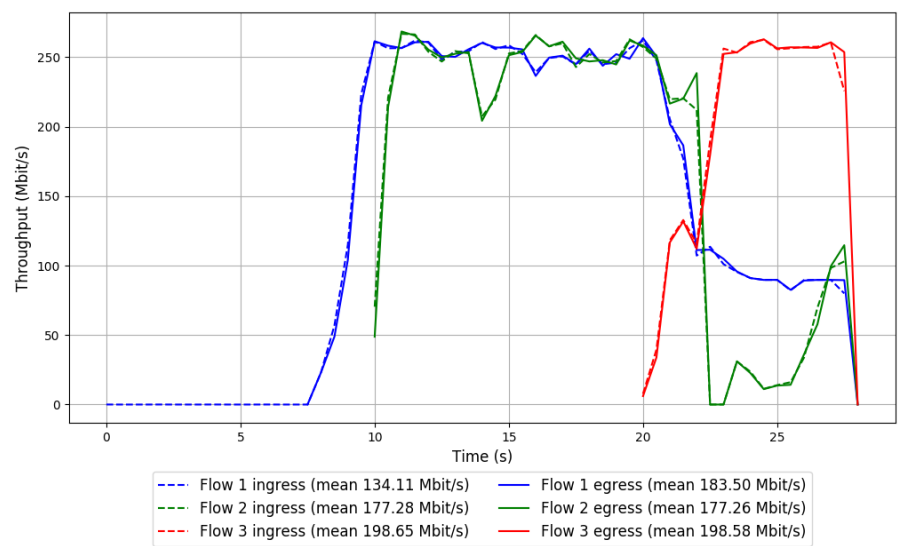
Run 9: Statistics of TaoVA-100x

Start at: 2017-12-01 06:01:39

End at: 2017-12-01 06:02:09



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

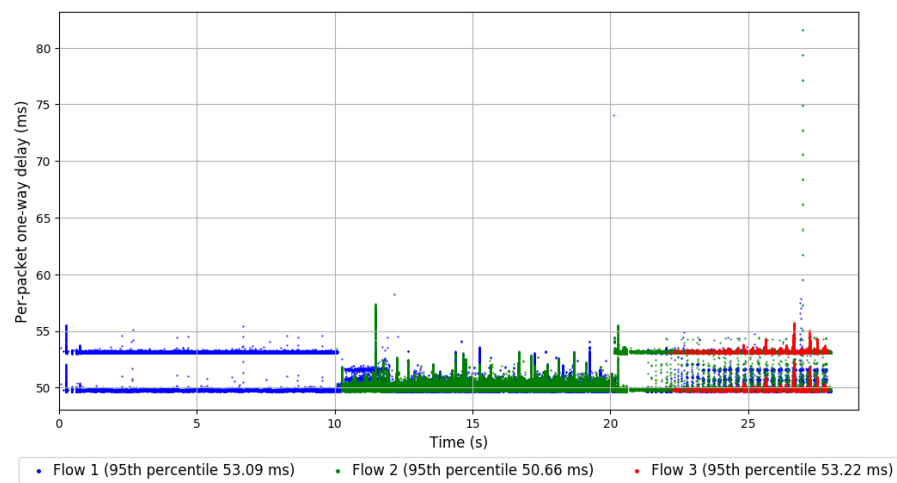
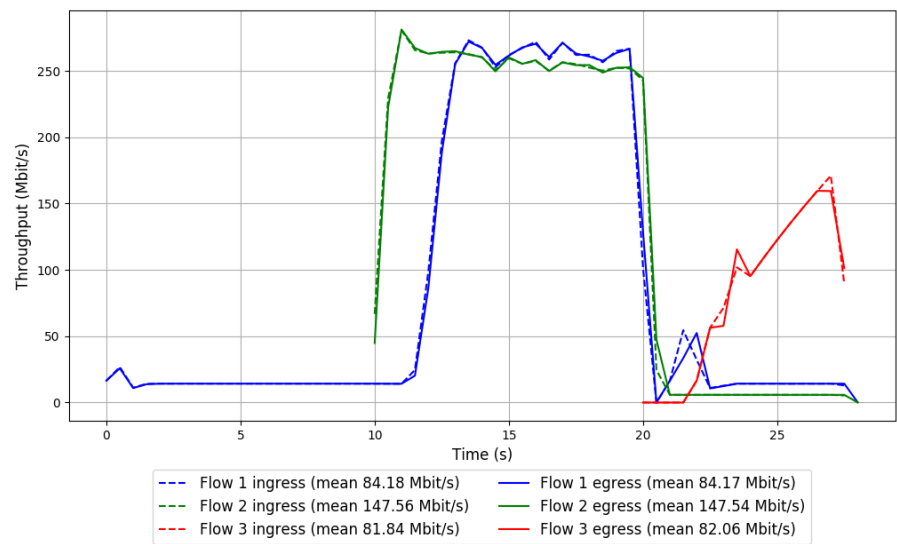


```
Run 10: Statistics of TaoVA-100x

Start at: 2017-12-01 06:13:52
End at: 2017-12-01 06:14:22

# Below is generated by plot.py at 2017-12-01 08:04:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 201.72 Mbit/s
95th percentile per-packet one-way delay: 53.123 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 84.17 Mbit/s
95th percentile per-packet one-way delay: 53.091 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 147.54 Mbit/s
95th percentile per-packet one-way delay: 50.658 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 82.06 Mbit/s
95th percentile per-packet one-way delay: 53.218 ms
Loss rate: 0.00%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2017-12-01 04:28:23

End at: 2017-12-01 04:28:53

# Below is generated by plot.py at 2017-12-01 08:04:05

# Datalink statistics

-- Total of 3 flows:

Average throughput: 127.50 Mbit/s

95th percentile per-packet one-way delay: 53.647 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 88.24 Mbit/s

95th percentile per-packet one-way delay: 53.627 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 53.04 Mbit/s

95th percentile per-packet one-way delay: 53.608 ms

Loss rate: 0.01%

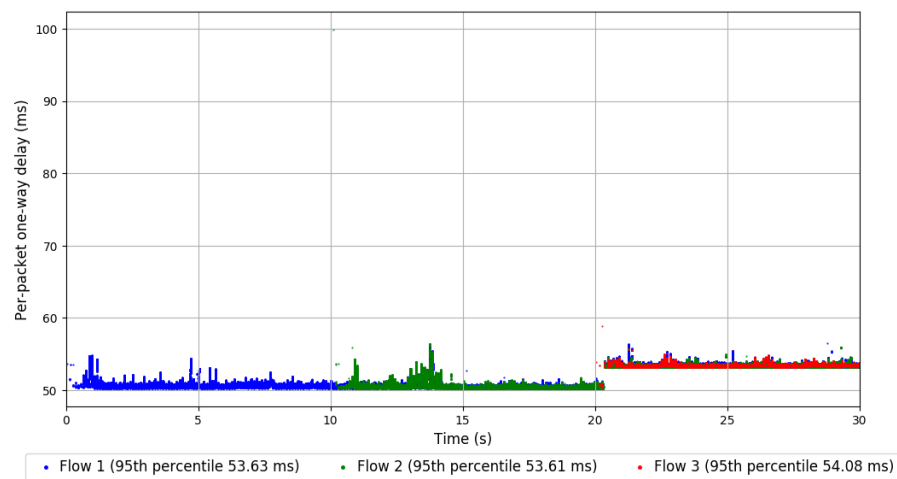
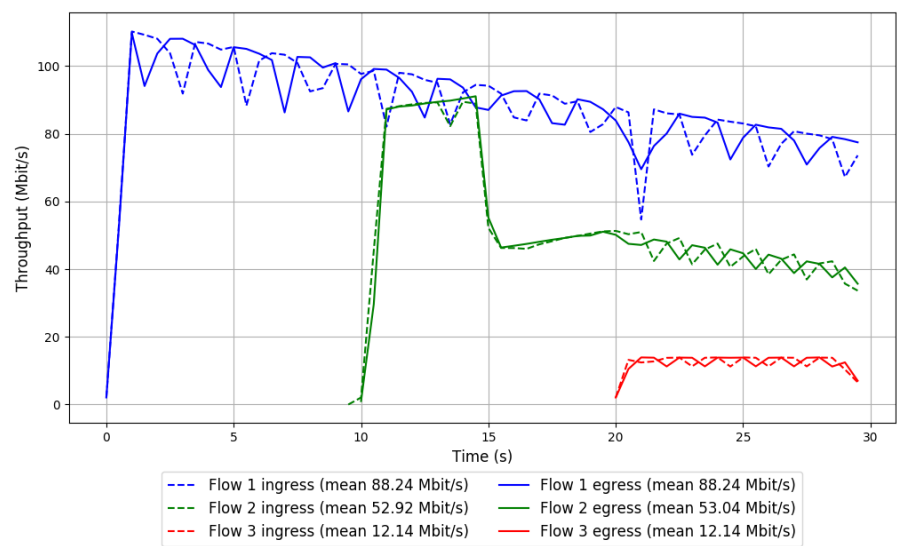
-- Flow 3:

Average throughput: 12.14 Mbit/s

95th percentile per-packet one-way delay: 54.084 ms

Loss rate: 0.06%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2017-12-01 04:40:20

End at: 2017-12-01 04:40:50

# Below is generated by plot.py at 2017-12-01 08:04:05

# Datalink statistics

-- Total of 3 flows:

Average throughput: 165.87 Mbit/s

95th percentile per-packet one-way delay: 54.130 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 68.79 Mbit/s

95th percentile per-packet one-way delay: 53.942 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 140.22 Mbit/s

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

Loss rate: 0.00%

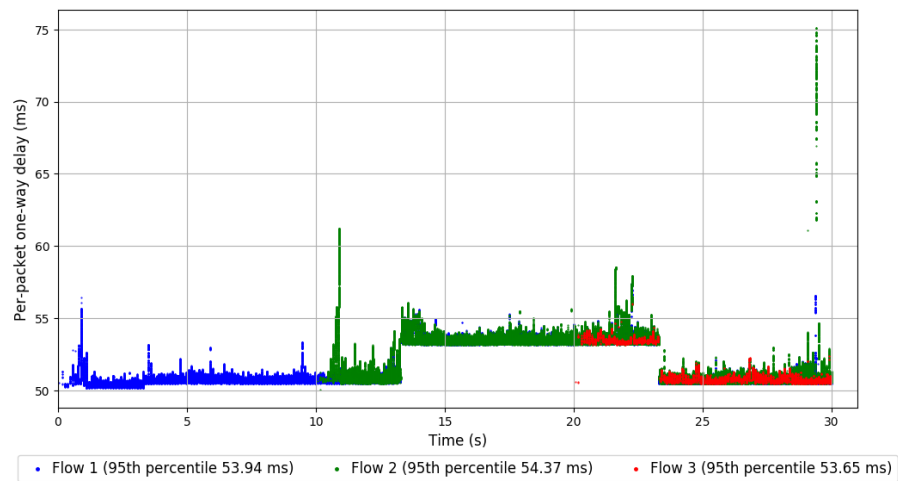
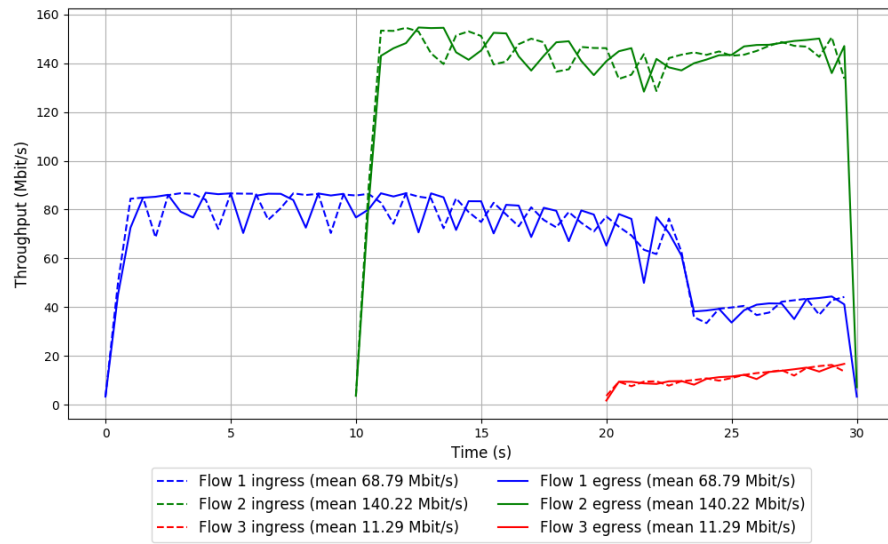
-- Flow 3:

Average throughput: 11.29 Mbit/s

95th percentile per-packet one-way delay: 53.653 ms

Loss rate: 0.00%

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



Run 3: Statistics of TCP Vegas

Start at: 2017-12-01 04:52:11

End at: 2017-12-01 04:52:41

# Below is generated by plot.py at 2017-12-01 08:04:05

# Datalink statistics

-- Total of 3 flows:

Average throughput: 132.34 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 64.96 Mbit/s

95th percentile per-packet one-way delay: 53.893 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 73.98 Mbit/s

95th percentile per-packet one-way delay: 54.255 ms

Loss rate: 0.00%

-- Flow 3:

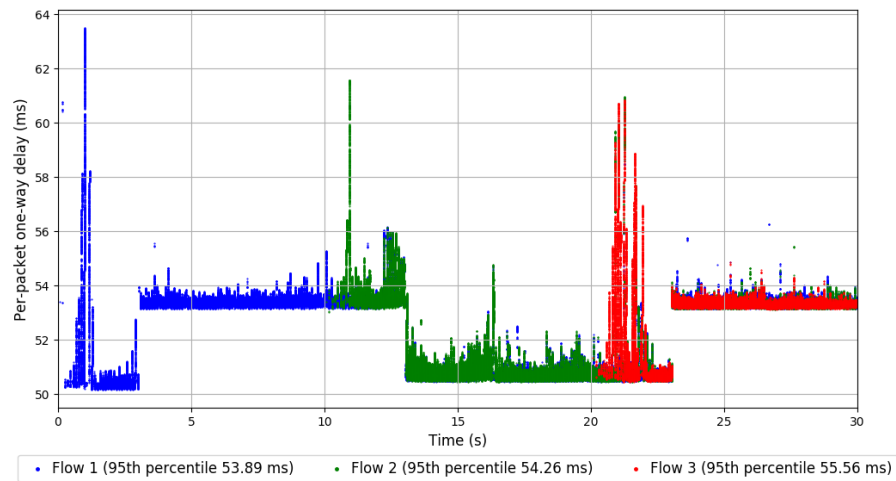
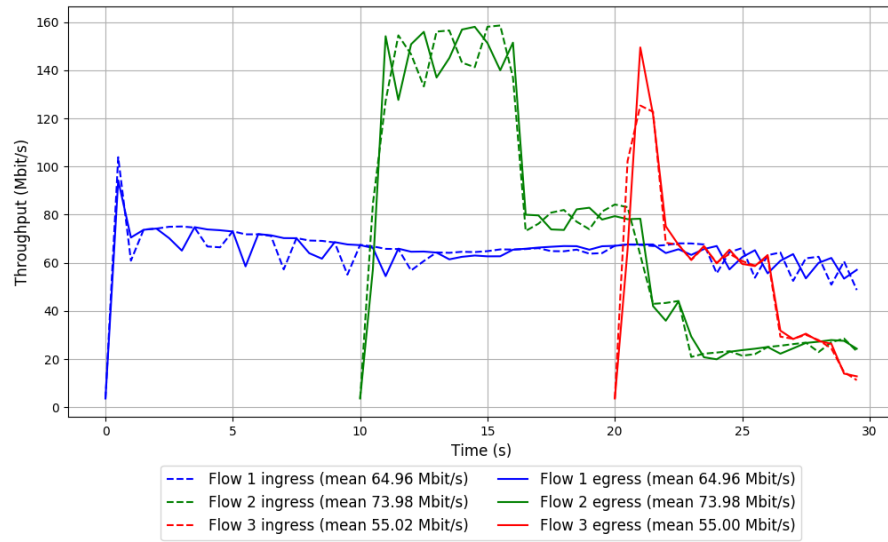
Average throughput: 55.00 Mbit/s

95th percentile per-packet one-way delay: 55.557 ms

Loss rate: 0.01%



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



Run 4: Statistics of TCP Vegas

Start at: 2017-12-01 05:04:00

End at: 2017-12-01 05:04:30

# Below is generated by plot.py at 2017-12-01 08:04:05

# Datalink statistics

-- Total of 3 flows:

Average throughput: 75.34 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 45.55 Mbit/s

95th percentile per-packet one-way delay: 53.887 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 8.60 Mbit/s

95th percentile per-packet one-way delay: 53.763 ms

Loss rate: 0.01%

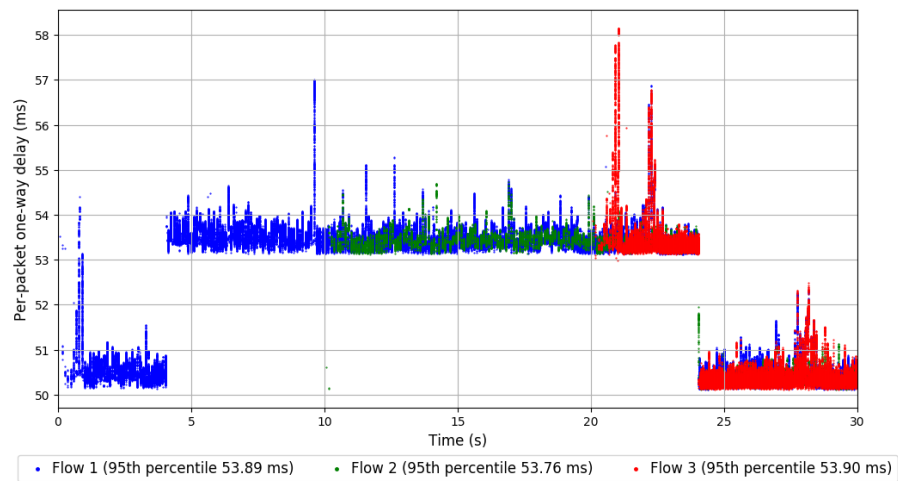
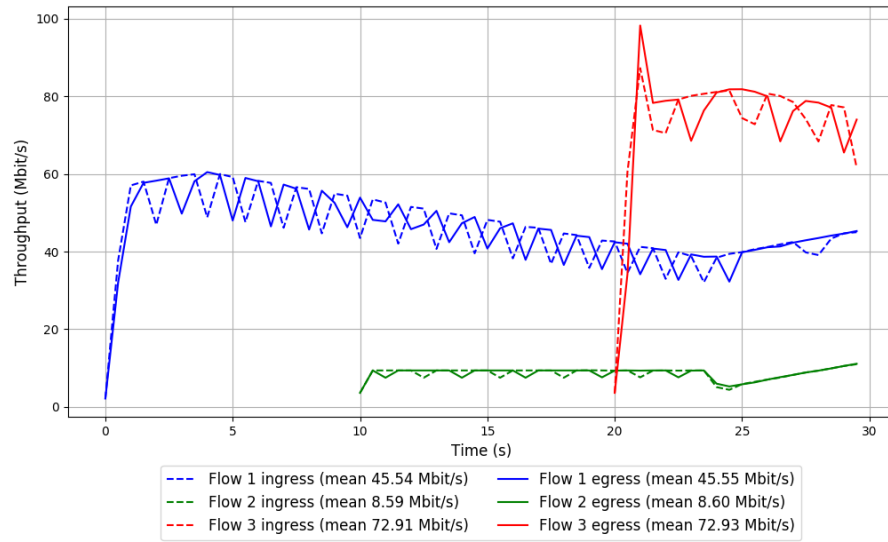
-- Flow 3:

Average throughput: 72.93 Mbit/s

95th percentile per-packet one-way delay: 53.898 ms

Loss rate: 0.00%

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



Run 5: Statistics of TCP Vegas

Start at: 2017-12-01 05:15:47

End at: 2017-12-01 05:16:17

# Below is generated by plot.py at 2017-12-01 08:04:05

# Datalink statistics

-- Total of 3 flows:

Average throughput: 89.20 Mbit/s

95th percentile per-packet one-way delay: 53.993 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 35.81 Mbit/s

95th percentile per-packet one-way delay: 53.948 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 48.04 Mbit/s

95th percentile per-packet one-way delay: 54.072 ms

Loss rate: 0.00%

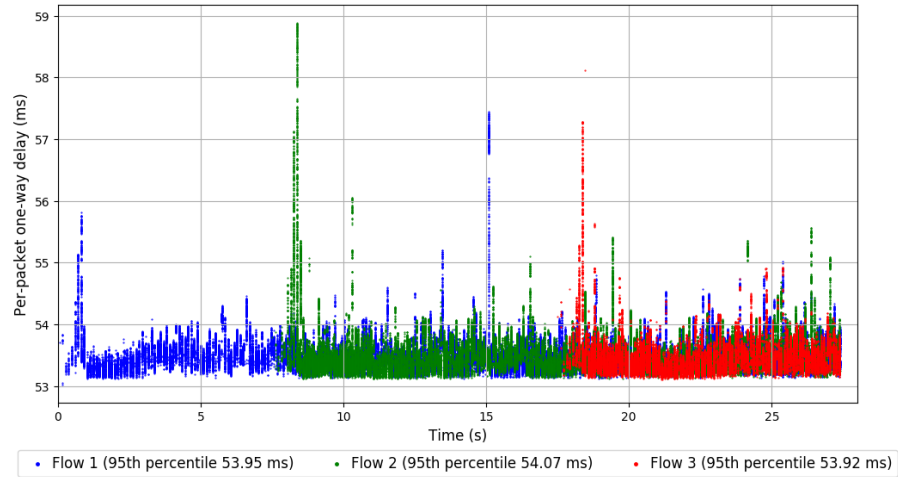
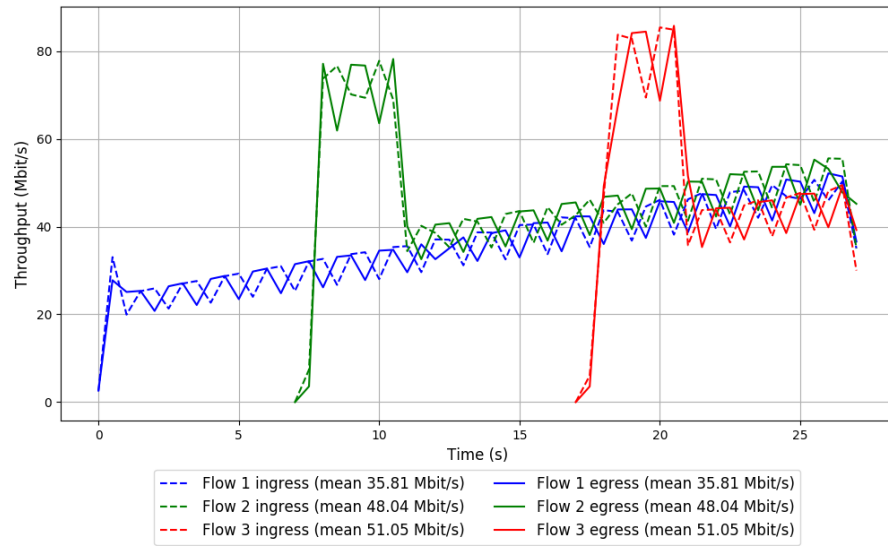
-- Flow 3:

Average throughput: 51.05 Mbit/s

95th percentile per-packet one-way delay: 53.916 ms

Loss rate: 0.01%

# Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2017-12-01 05:27:55

End at: 2017-12-01 05:28:25

# Below is generated by plot.py at 2017-12-01 08:04:05

# Datalink statistics

-- Total of 3 flows:

Average throughput: 74.13 Mbit/s

95th percentile per-packet one-way delay: 53.673 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 14.69 Mbit/s

95th percentile per-packet one-way delay: 53.791 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 86.53 Mbit/s

95th percentile per-packet one-way delay: 53.629 ms

Loss rate: 0.00%

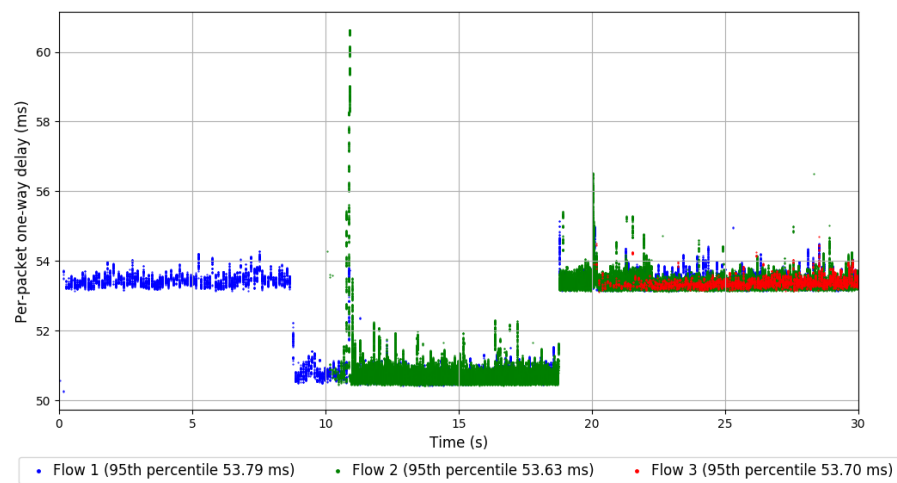
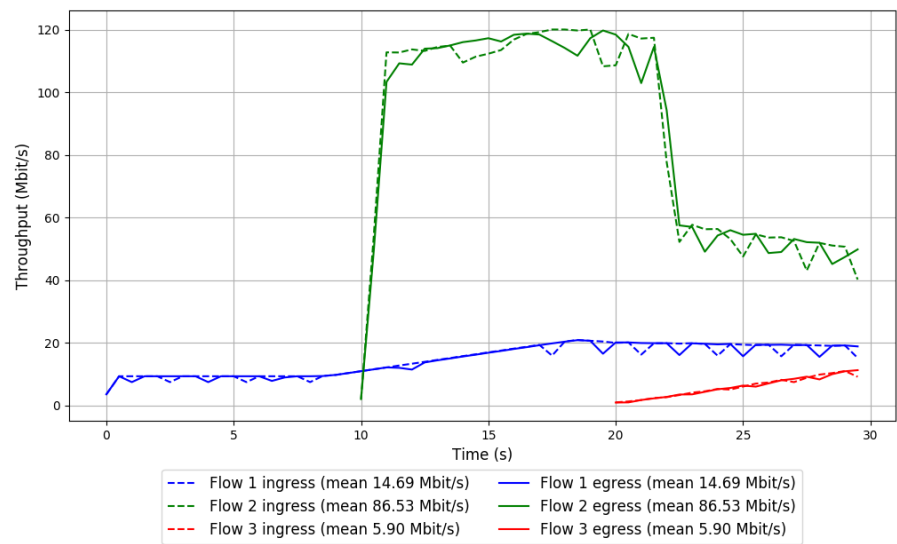
-- Flow 3:

Average throughput: 5.90 Mbit/s

95th percentile per-packet one-way delay: 53.701 ms

Loss rate: 0.04%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2017-12-01 05:39:57

End at: 2017-12-01 05:40:27

# Below is generated by plot.py at 2017-12-01 08:04:05

# Datalink statistics

-- Total of 3 flows:

Average throughput: 114.00 Mbit/s

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

Loss rate: 0.08%

-- Flow 1:

Average throughput: 15.53 Mbit/s

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

Loss rate: 0.57%

-- Flow 2:

Average throughput: 62.09 Mbit/s

95th percentile per-packet one-way delay: 53.792 ms

Loss rate: 0.01%

-- Flow 3:

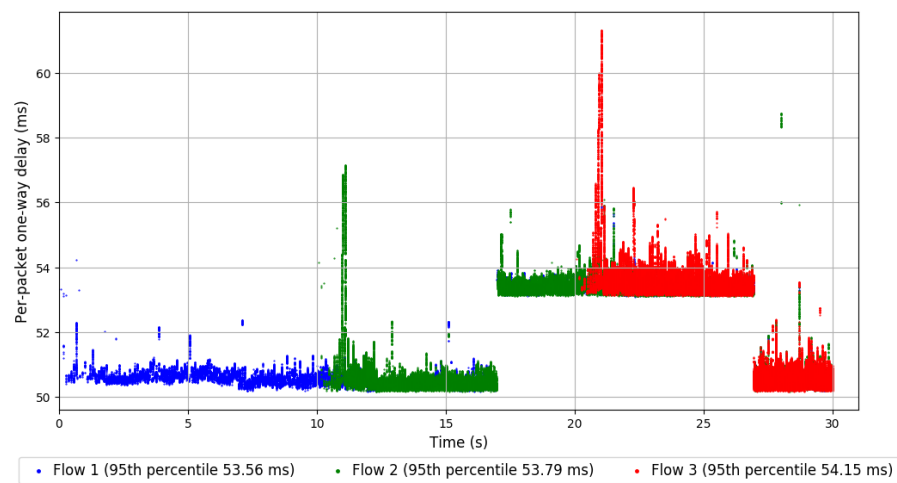
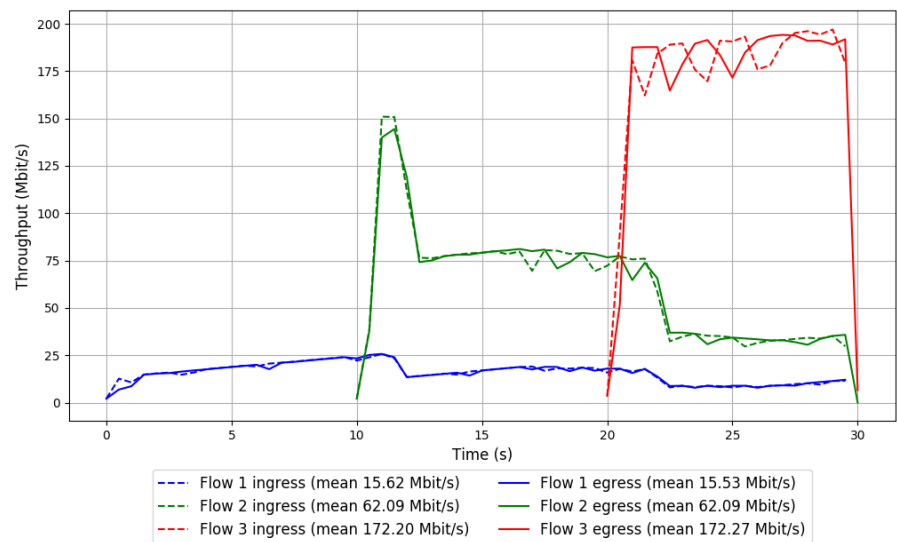
Average throughput: 172.27 Mbit/s

95th percentile per-packet one-way delay: 54.147 ms

Loss rate: 0.00%



Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2017-12-01 05:51:46

End at: 2017-12-01 05:52:16

# Below is generated by plot.py at 2017-12-01 08:04:05

# Datalink statistics

-- Total of 3 flows:

Average throughput: 51.82 Mbit/s

95th percentile per-packet one-way delay: 53.608 ms

Loss rate: 0.41%

-- Flow 1:

Average throughput: 23.89 Mbit/s

95th percentile per-packet one-way delay: 53.698 ms

Loss rate: 0.84%

-- Flow 2:

Average throughput: 19.95 Mbit/s

95th percentile per-packet one-way delay: 53.618 ms

Loss rate: 0.01%

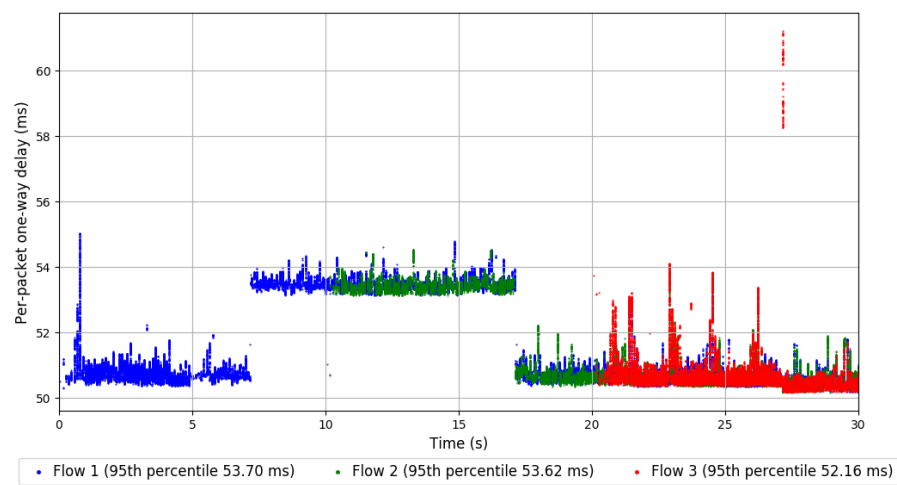
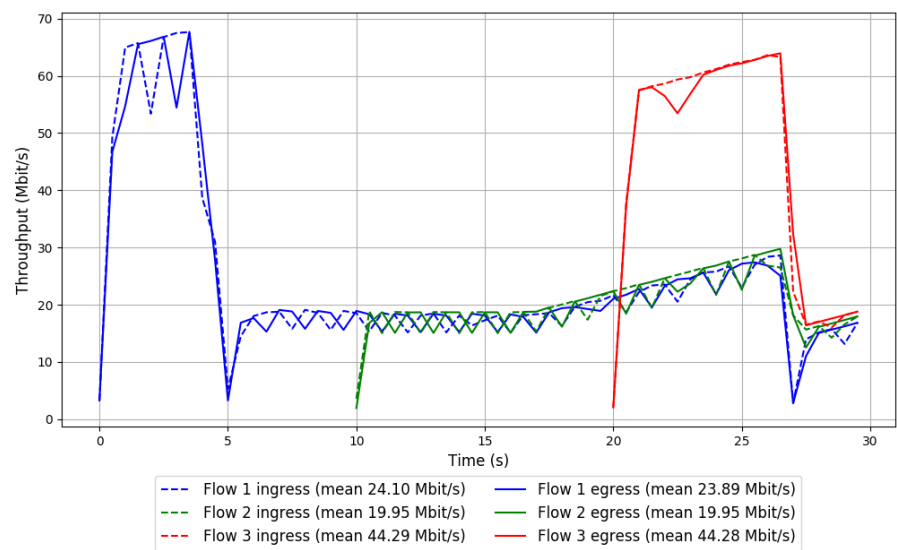
-- Flow 3:

Average throughput: 44.28 Mbit/s

95th percentile per-packet one-way delay: 52.162 ms

Loss rate: 0.06%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2017-12-01 06:03:54

End at: 2017-12-01 06:04:24

# Below is generated by plot.py at 2017-12-01 08:04:05

# Datalink statistics

-- Total of 3 flows:

Average throughput: 183.48 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 94.26 Mbit/s

95th percentile per-packet one-way delay: 53.805 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 96.25 Mbit/s

95th percentile per-packet one-way delay: 53.995 ms

Loss rate: 0.00%

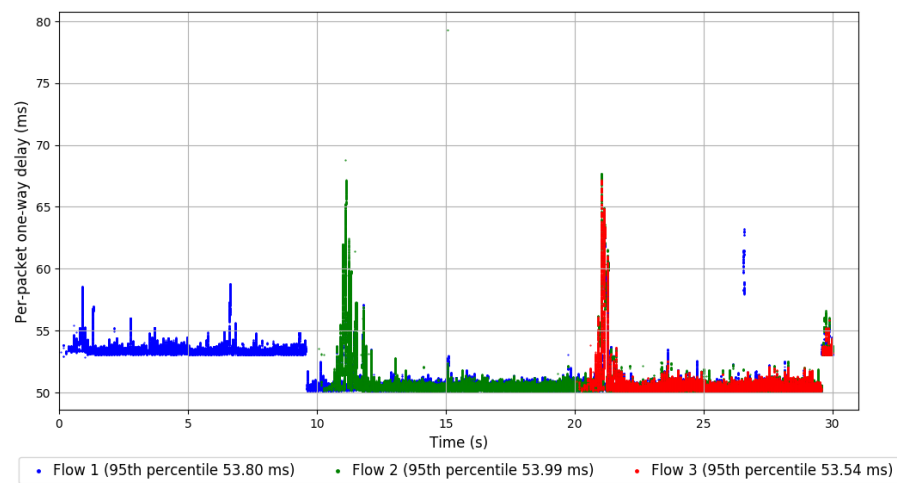
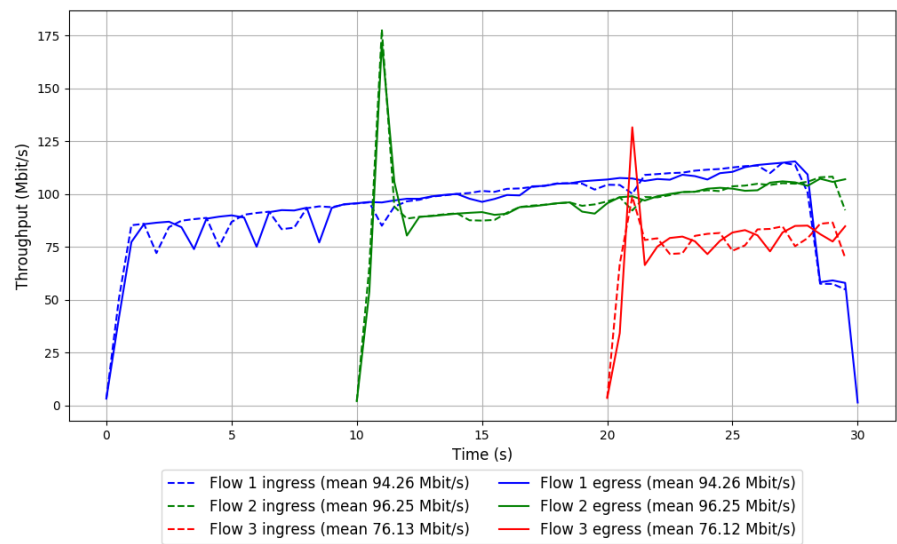
-- Flow 3:

Average throughput: 76.12 Mbit/s

95th percentile per-packet one-way delay: 53.540 ms

Loss rate: 0.00%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2017-12-01 06:15:55

End at: 2017-12-01 06:16:25

# Below is generated by plot.py at 2017-12-01 08:04:05

# Datalink statistics

-- Total of 3 flows:

Average throughput: 99.47 Mbit/s

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

Loss rate: 0.70%

-- Flow 1:

Average throughput: 56.73 Mbit/s

95th percentile per-packet one-way delay: 53.588 ms

Loss rate: 1.07%

-- Flow 2:

Average throughput: 32.53 Mbit/s

95th percentile per-packet one-way delay: 54.059 ms

Loss rate: 0.41%

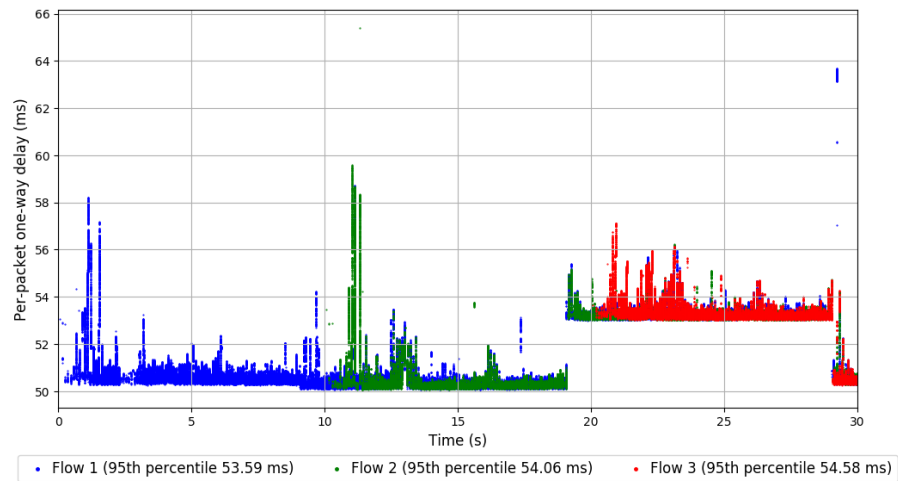
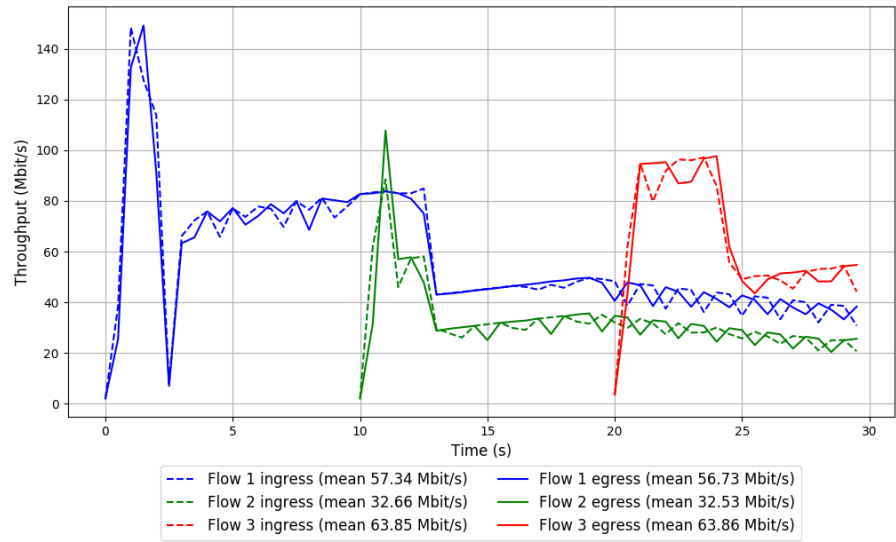
-- Flow 3:

Average throughput: 63.86 Mbit/s

95th percentile per-packet one-way delay: 54.575 ms

Loss rate: 0.01%

# Run 10: Report of TCP Vegas — Data Link



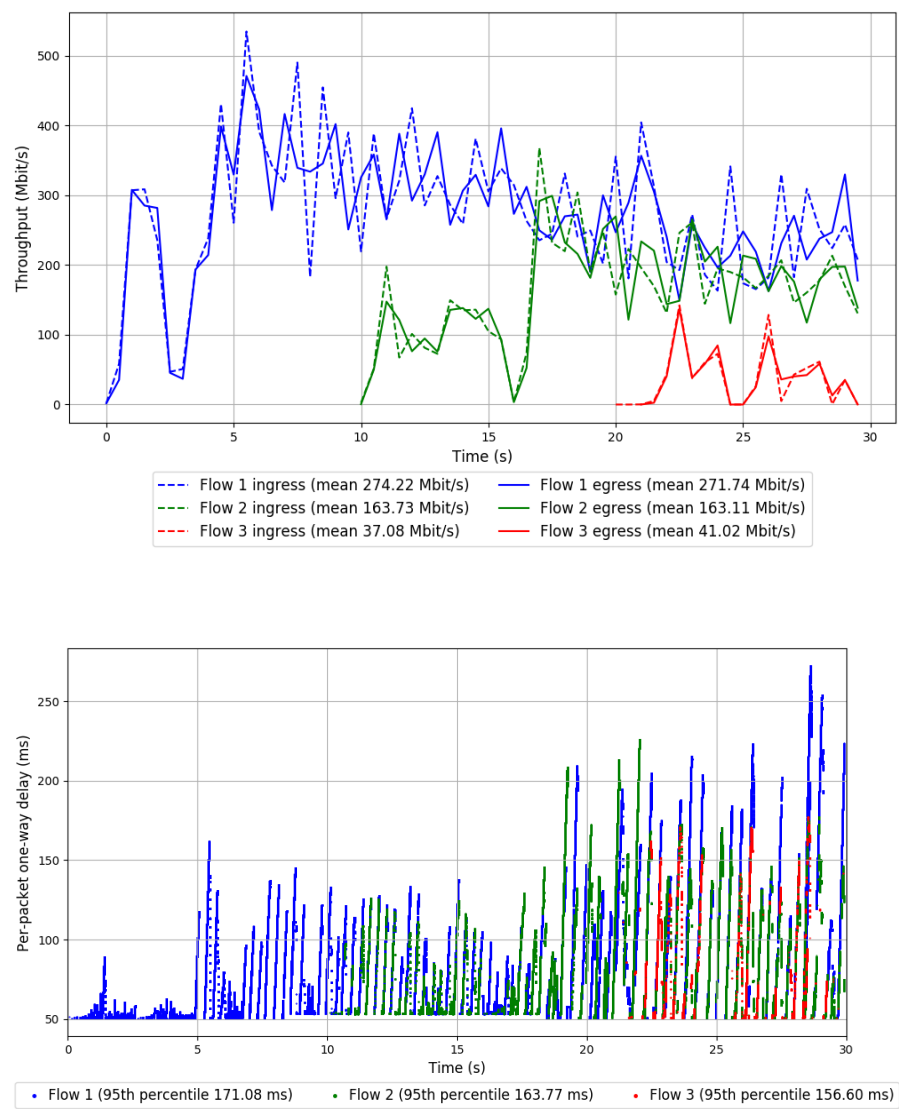
```
Run 1: Statistics of Verus

Start at: 2017-12-01 04:27:15
End at: 2017-12-01 04:27:45

# Below is generated by plot.py at 2017-12-01 08:07:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 391.83 Mbit/s
95th percentile per-packet one-way delay: 167.104 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 271.74 Mbit/s
95th percentile per-packet one-way delay: 171.076 ms
Loss rate: 0.52%
-- Flow 2:
Average throughput: 163.11 Mbit/s
95th percentile per-packet one-way delay: 163.774 ms
Loss rate: 0.36%
-- Flow 3:
Average throughput: 41.02 Mbit/s
95th percentile per-packet one-way delay: 156.600 ms
Loss rate: 0.69%
```



Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2017-12-01 04:39:15

End at: 2017-12-01 04:39:45

# Below is generated by plot.py at 2017-12-01 08:07:54

# Datalink statistics

-- Total of 3 flows:

Average throughput: 354.70 Mbit/s

95th percentile per-packet one-way delay: 152.325 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 227.62 Mbit/s

95th percentile per-packet one-way delay: 163.638 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 127.71 Mbit/s

95th percentile per-packet one-way delay: 133.987 ms

Loss rate: 0.00%

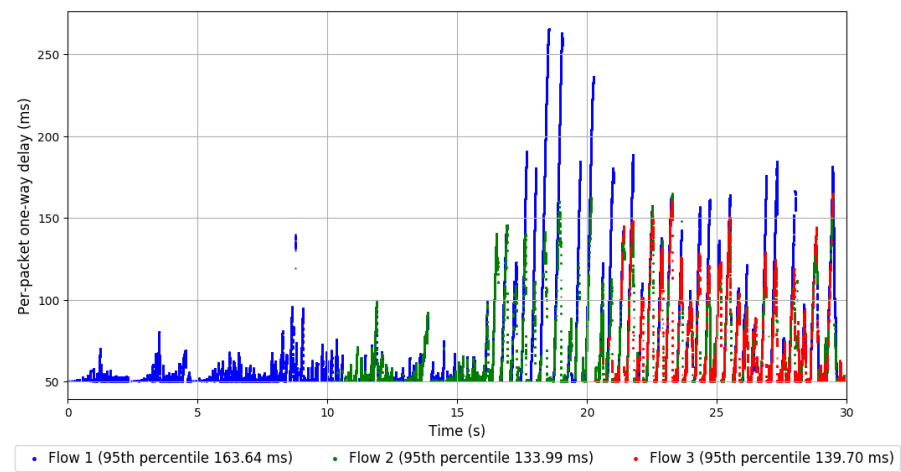
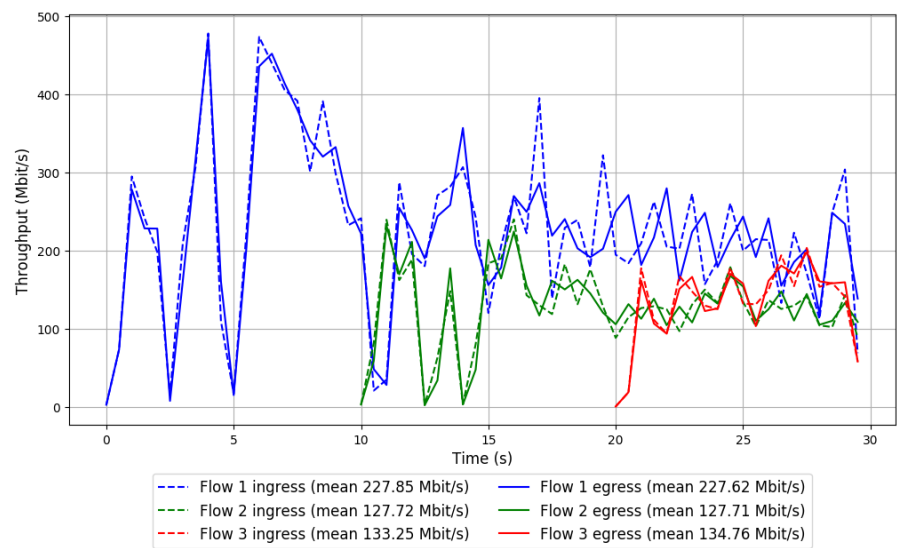
-- Flow 3:

Average throughput: 134.76 Mbit/s

95th percentile per-packet one-way delay: 139.699 ms

Loss rate: 0.00%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2017-12-01 04:51:07

End at: 2017-12-01 04:51:37

# Below is generated by plot.py at 2017-12-01 08:07:56

# Datalink statistics

-- Total of 3 flows:

Average throughput: 327.98 Mbit/s

95th percentile per-packet one-way delay: 132.114 ms

Loss rate: 0.15%

-- Flow 1:

Average throughput: 212.72 Mbit/s

95th percentile per-packet one-way delay: 151.596 ms

Loss rate: 0.23%

-- Flow 2:

Average throughput: 97.14 Mbit/s

95th percentile per-packet one-way delay: 113.325 ms

Loss rate: 0.00%

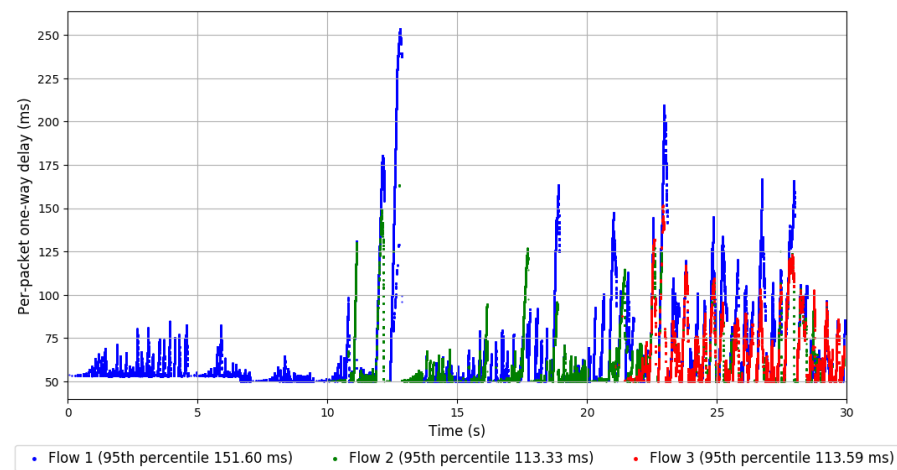
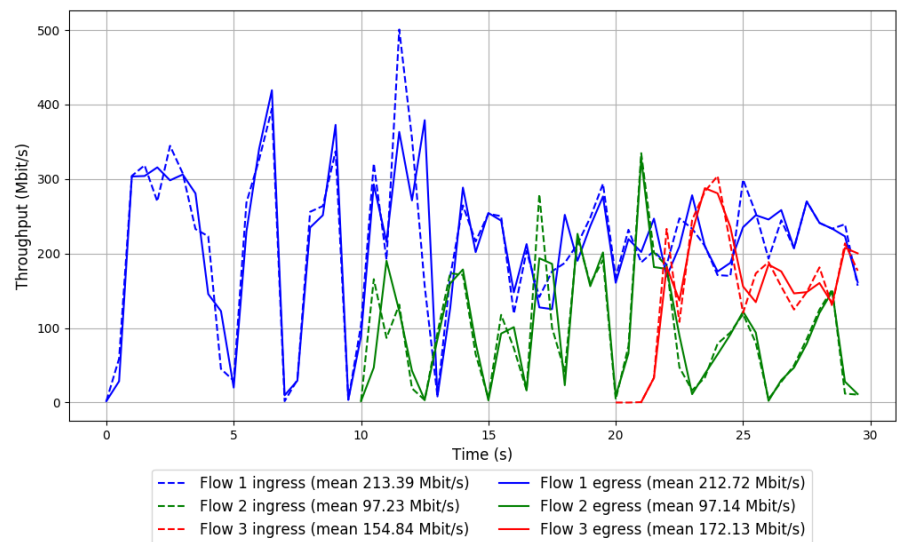
-- Flow 3:

Average throughput: 172.13 Mbit/s

95th percentile per-packet one-way delay: 113.586 ms

Loss rate: 0.01%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2017-12-01 05:02:59

End at: 2017-12-01 05:03:29

# Below is generated by plot.py at 2017-12-01 08:07:56

# Datalink statistics

-- Total of 3 flows:

Average throughput: 278.72 Mbit/s

95th percentile per-packet one-way delay: 83.068 ms

Loss rate: 0.74%

-- Flow 1:

Average throughput: 162.16 Mbit/s

95th percentile per-packet one-way delay: 75.737 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 140.61 Mbit/s

95th percentile per-packet one-way delay: 139.475 ms

Loss rate: 2.25%

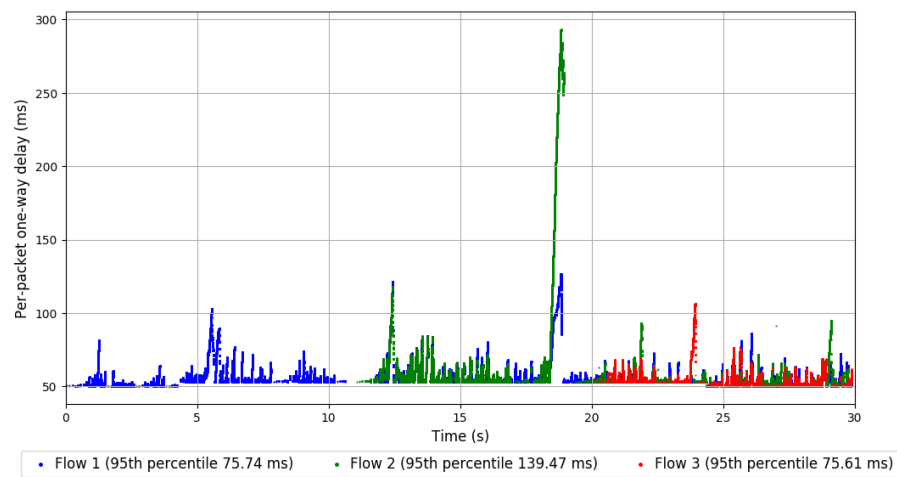
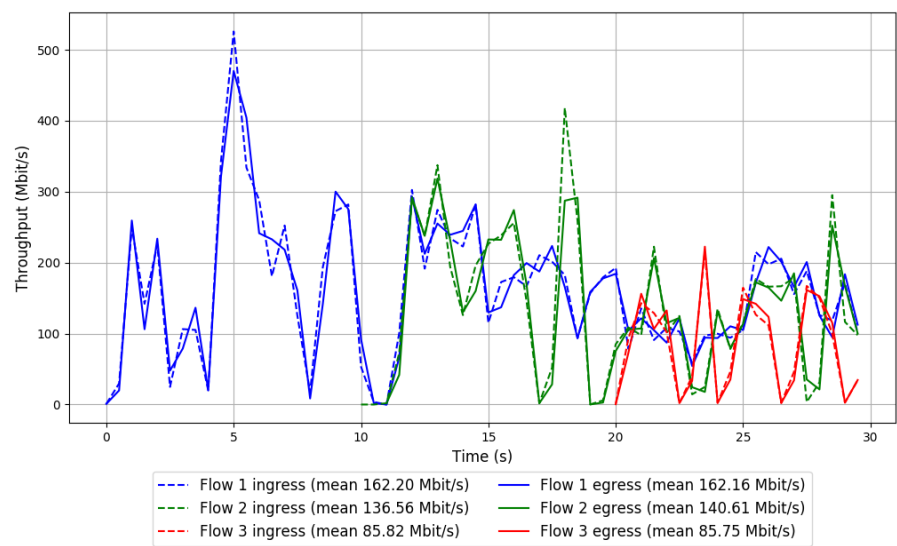
-- Flow 3:

Average throughput: 85.75 Mbit/s

95th percentile per-packet one-way delay: 75.614 ms

Loss rate: 0.00%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2017-12-01 05:14:43

End at: 2017-12-01 05:15:13

# Below is generated by plot.py at 2017-12-01 08:08:15

# Datalink statistics

-- Total of 3 flows:

Average throughput: 317.79 Mbit/s

95th percentile per-packet one-way delay: 90.168 ms

Loss rate: 0.14%

-- Flow 1:

Average throughput: 183.43 Mbit/s

95th percentile per-packet one-way delay: 85.173 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 128.71 Mbit/s

95th percentile per-packet one-way delay: 104.690 ms

Loss rate: 0.33%

-- Flow 3:

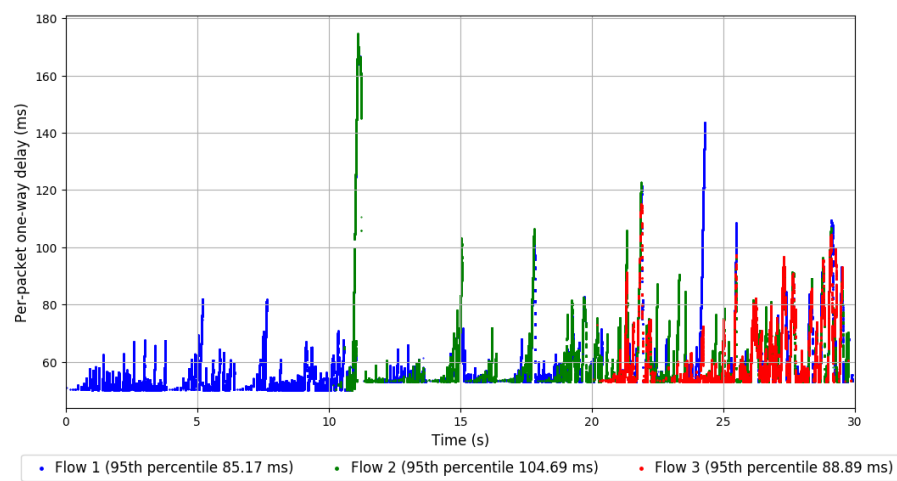
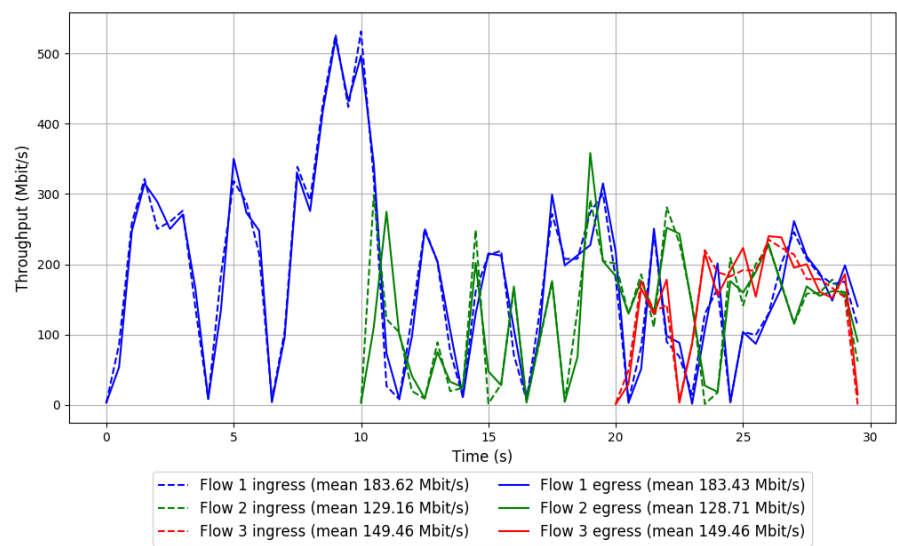
Average throughput: 149.46 Mbit/s

95th percentile per-packet one-way delay: 88.895 ms

Loss rate: 0.00%



Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2017-12-01 05:26:48

End at: 2017-12-01 05:27:18

# Below is generated by plot.py at 2017-12-01 08:09:13

# Datalink statistics

-- Total of 3 flows:

Average throughput: 363.73 Mbit/s

95th percentile per-packet one-way delay: 138.915 ms

Loss rate: 0.13%

-- Flow 1:

Average throughput: 228.44 Mbit/s

95th percentile per-packet one-way delay: 139.131 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 155.64 Mbit/s

95th percentile per-packet one-way delay: 139.650 ms

Loss rate: 0.18%

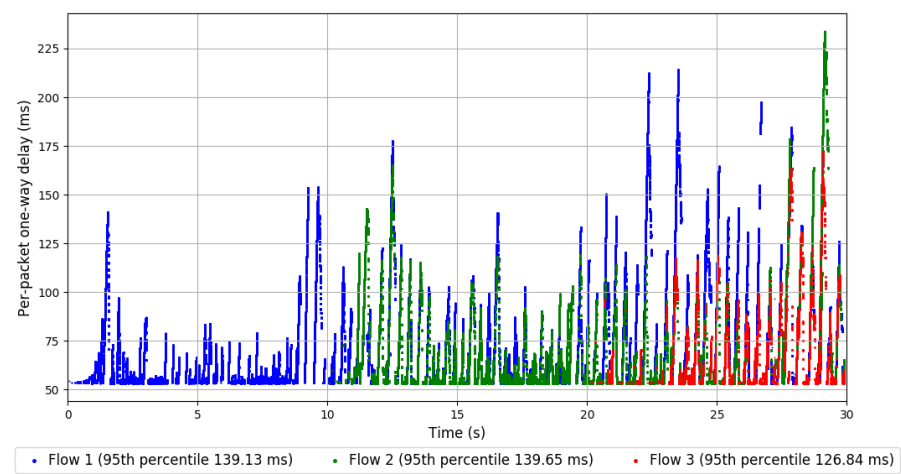
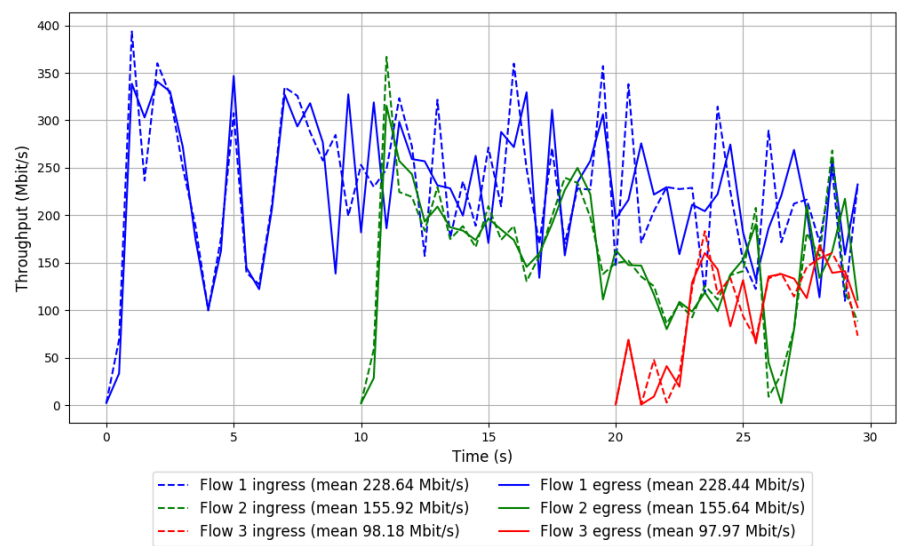
-- Flow 3:

Average throughput: 97.97 Mbit/s

95th percentile per-packet one-way delay: 126.839 ms

Loss rate: 0.21%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2017-12-01 05:38:53

End at: 2017-12-01 05:39:23

# Below is generated by plot.py at 2017-12-01 08:09:35

# Datalink statistics

-- Total of 3 flows:

Average throughput: 322.95 Mbit/s

95th percentile per-packet one-way delay: 126.632 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 172.21 Mbit/s

95th percentile per-packet one-way delay: 101.615 ms

Loss rate: 0.21%

-- Flow 2:

Average throughput: 146.37 Mbit/s

95th percentile per-packet one-way delay: 113.175 ms

Loss rate: 0.00%

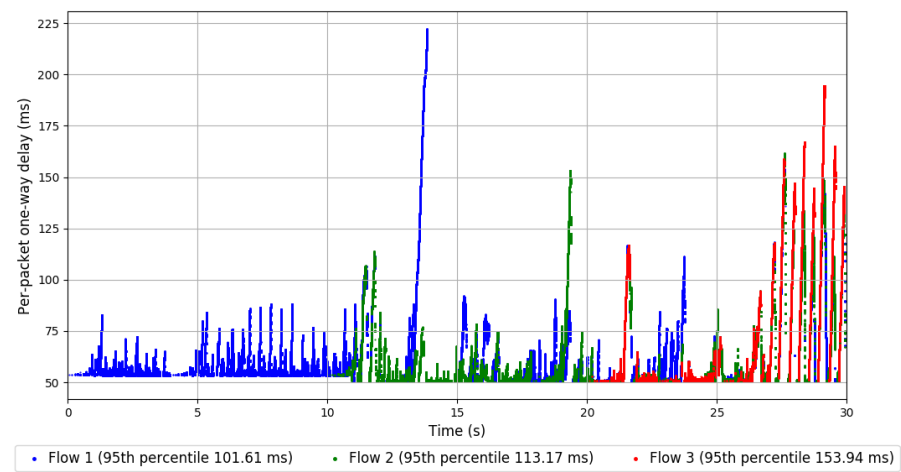
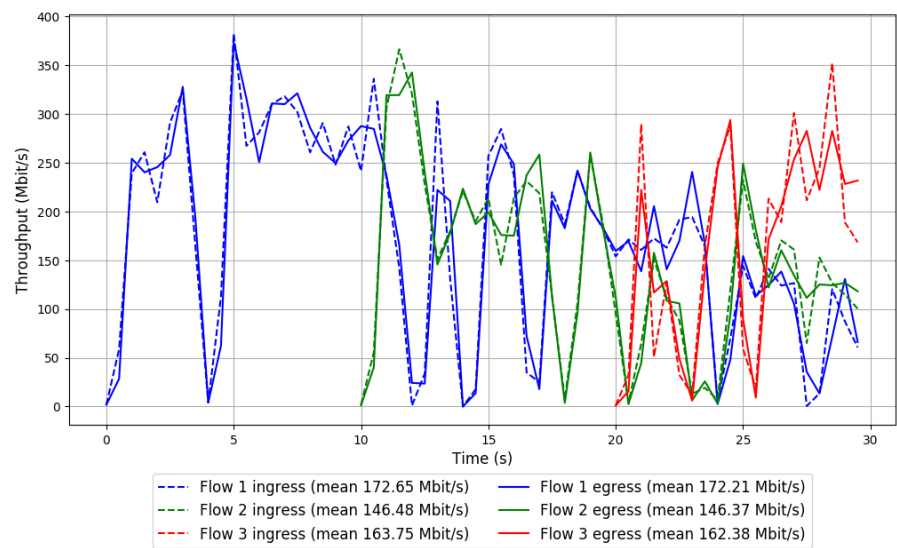
-- Flow 3:

Average throughput: 162.38 Mbit/s

95th percentile per-packet one-way delay: 153.936 ms

Loss rate: 0.00%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2017-12-01 05:50:38

End at: 2017-12-01 05:51:08

# Below is generated by plot.py at 2017-12-01 08:11:25

# Datalink statistics

-- Total of 3 flows:

Average throughput: 397.90 Mbit/s

95th percentile per-packet one-way delay: 97.785 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 248.15 Mbit/s

95th percentile per-packet one-way delay: 100.867 ms

Loss rate: 0.19%

-- Flow 2:

Average throughput: 165.68 Mbit/s

95th percentile per-packet one-way delay: 91.514 ms

Loss rate: 0.00%

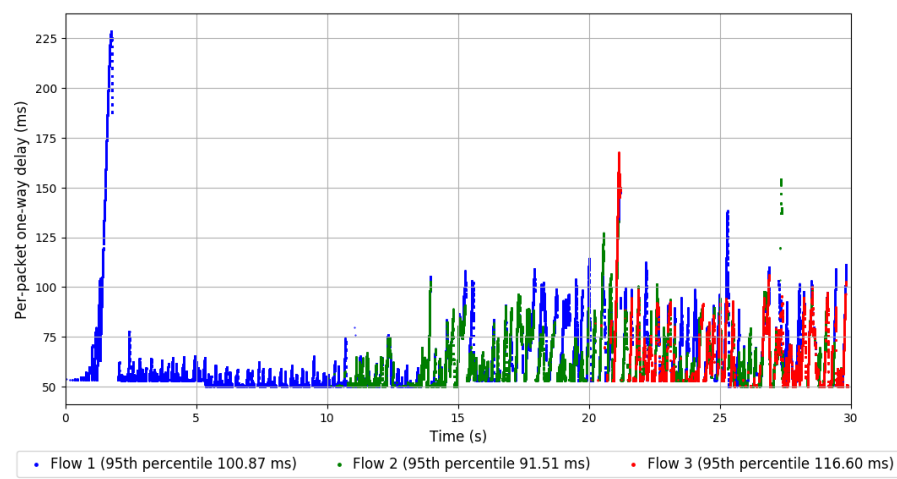
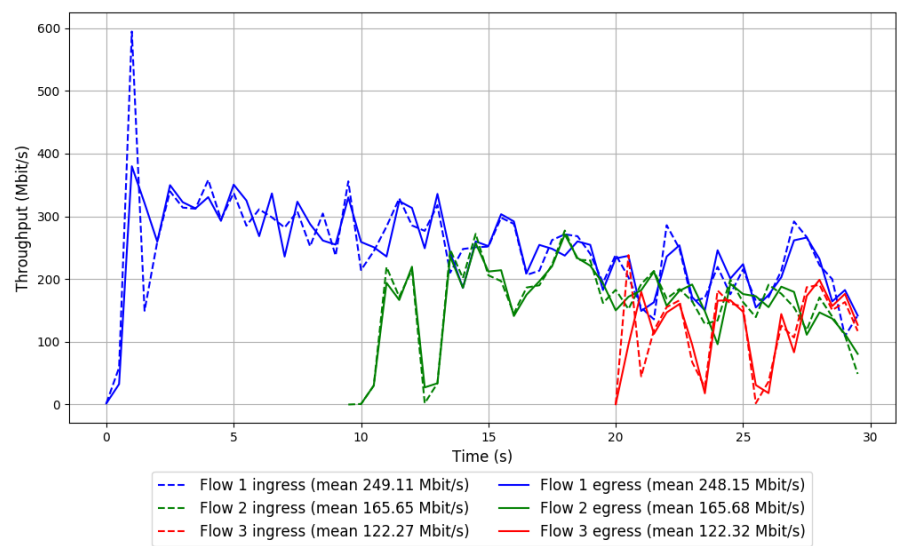
-- Flow 3:

Average throughput: 122.32 Mbit/s

95th percentile per-packet one-way delay: 116.601 ms

Loss rate: 0.01%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2017-12-01 06:02:47

End at: 2017-12-01 06:03:17

# Below is generated by plot.py at 2017-12-01 08:13:53

# Datalink statistics

-- Total of 3 flows:

Average throughput: 377.03 Mbit/s

95th percentile per-packet one-way delay: 166.484 ms

Loss rate: 0.54%

-- Flow 1:

Average throughput: 227.20 Mbit/s

95th percentile per-packet one-way delay: 145.148 ms

Loss rate: 0.24%

-- Flow 2:

Average throughput: 178.41 Mbit/s

95th percentile per-packet one-way delay: 183.498 ms

Loss rate: 0.64%

-- Flow 3:

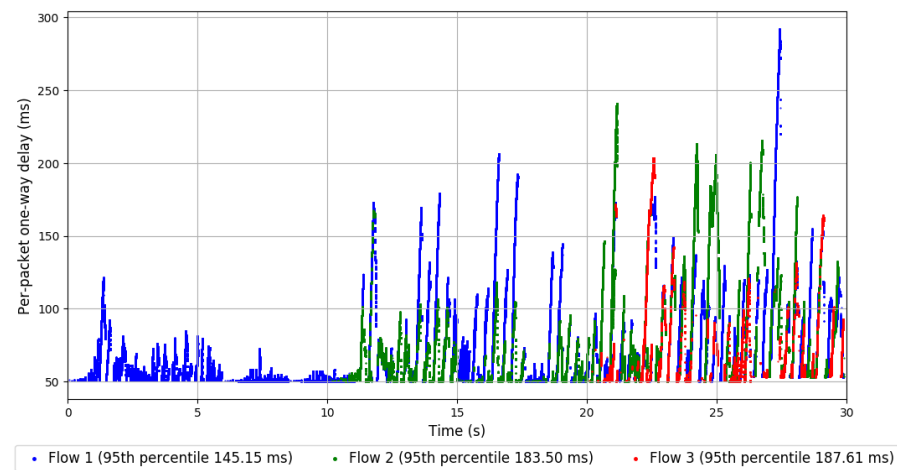
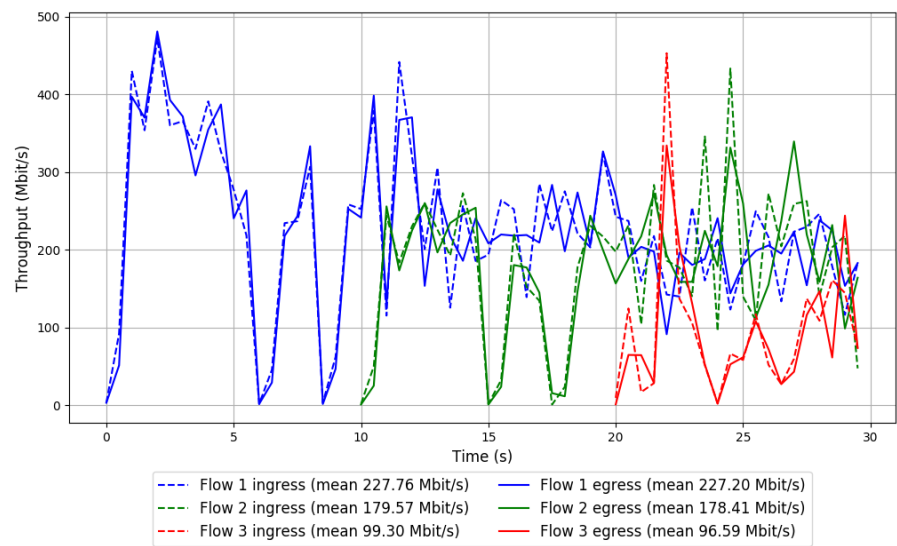
Average throughput: 96.59 Mbit/s

95th percentile per-packet one-way delay: 187.608 ms

Loss rate: 2.31%



Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2017-12-01 06:14:50

End at: 2017-12-01 06:15:20

# Below is generated by plot.py at 2017-12-01 08:13:53

# Datalink statistics

-- Total of 3 flows:

Average throughput: 341.10 Mbit/s

95th percentile per-packet one-way delay: 88.167 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 194.44 Mbit/s

95th percentile per-packet one-way delay: 85.495 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 161.54 Mbit/s

95th percentile per-packet one-way delay: 90.423 ms

Loss rate: 0.01%

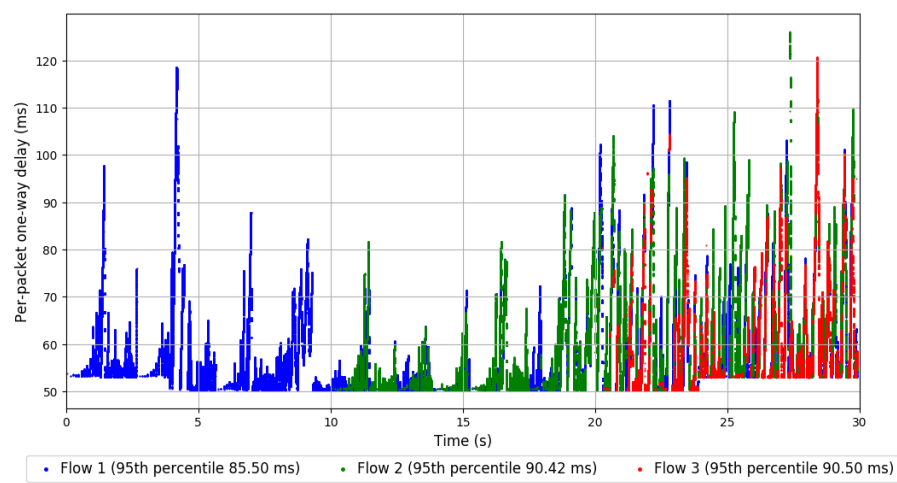
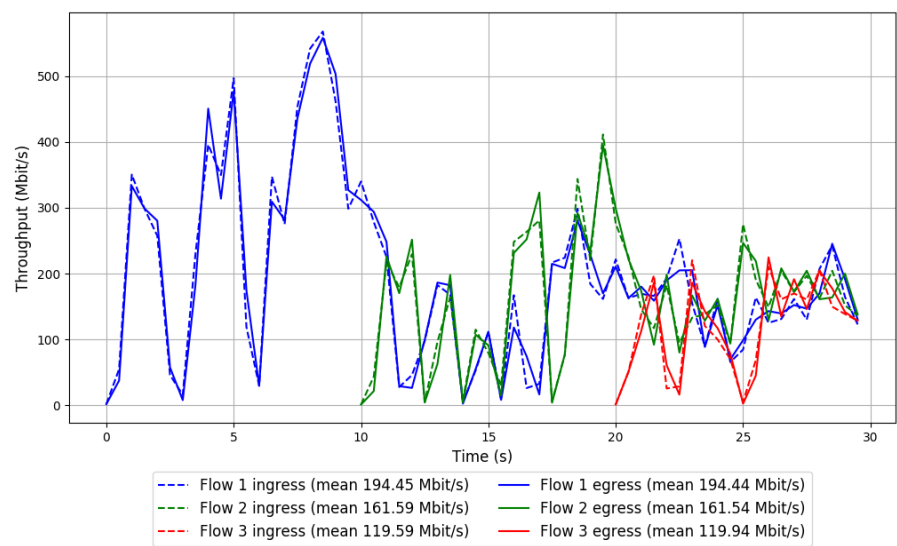
-- Flow 3:

Average throughput: 119.94 Mbit/s

95th percentile per-packet one-way delay: 90.499 ms

Loss rate: 0.01%

Run 10: Report of Verus — Data Link

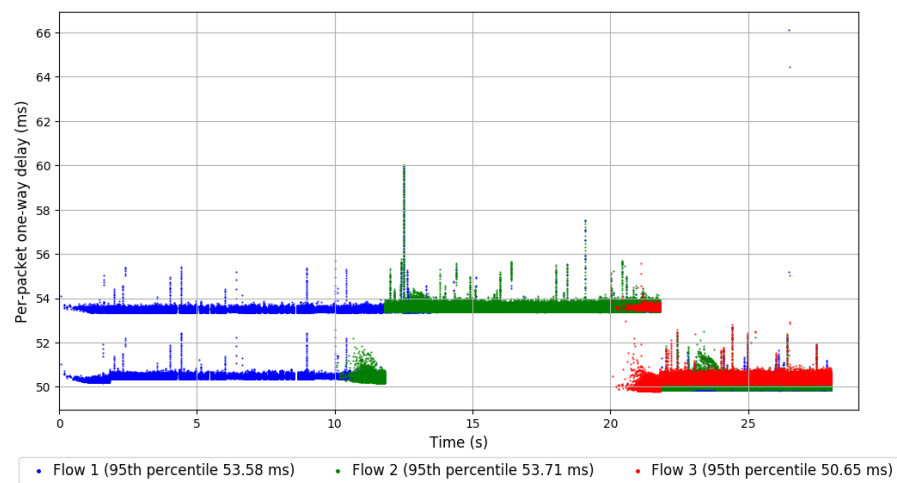
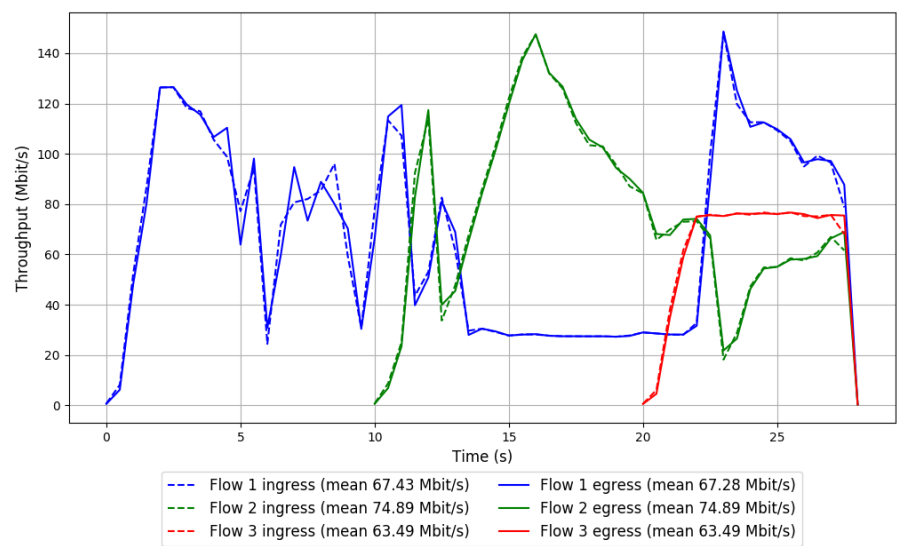


```
Run 1: Statistics of Copa

Start at: 2017-12-01 04:19:40
End at: 2017-12-01 04:20:10

# Below is generated by plot.py at 2017-12-01 08:13:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 133.37 Mbit/s
95th percentile per-packet one-way delay: 53.643 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 67.28 Mbit/s
95th percentile per-packet one-way delay: 53.577 ms
Loss rate: 0.22%
-- Flow 2:
Average throughput: 74.89 Mbit/s
95th percentile per-packet one-way delay: 53.709 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 63.49 Mbit/s
95th percentile per-packet one-way delay: 50.649 ms
Loss rate: 0.00%
```

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2017-12-01 04:31:28

End at: 2017-12-01 04:31:58

# Below is generated by plot.py at 2017-12-01 08:13:53

# Datalink statistics

-- Total of 3 flows:

Average throughput: 150.70 Mbit/s

95th percentile per-packet one-way delay: 53.359 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 96.97 Mbit/s

95th percentile per-packet one-way delay: 53.337 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 75.05 Mbit/s

95th percentile per-packet one-way delay: 53.352 ms

Loss rate: 0.00%

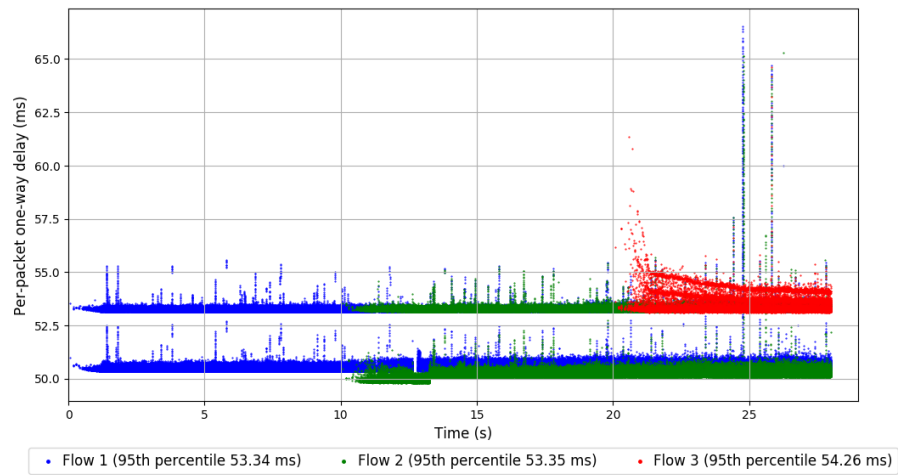
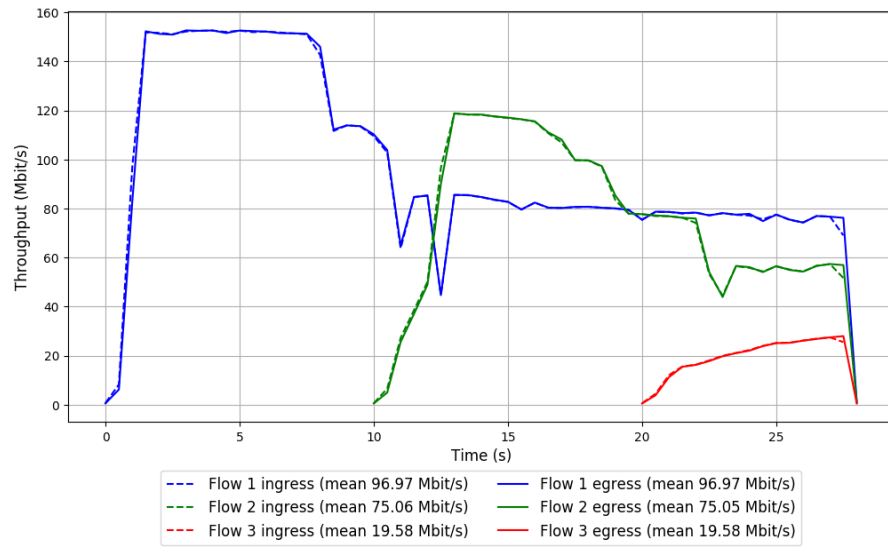
-- Flow 3:

Average throughput: 19.58 Mbit/s

95th percentile per-packet one-way delay: 54.255 ms

Loss rate: 0.00%

## Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2017-12-01 04:43:30

End at: 2017-12-01 04:44:00

# Below is generated by plot.py at 2017-12-01 08:13:53

# Datalink statistics

-- Total of 3 flows:

Average throughput: 135.48 Mbit/s

95th percentile per-packet one-way delay: 53.581 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 59.16 Mbit/s

95th percentile per-packet one-way delay: 53.305 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 83.96 Mbit/s

95th percentile per-packet one-way delay: 53.772 ms

Loss rate: 0.00%

-- Flow 3:

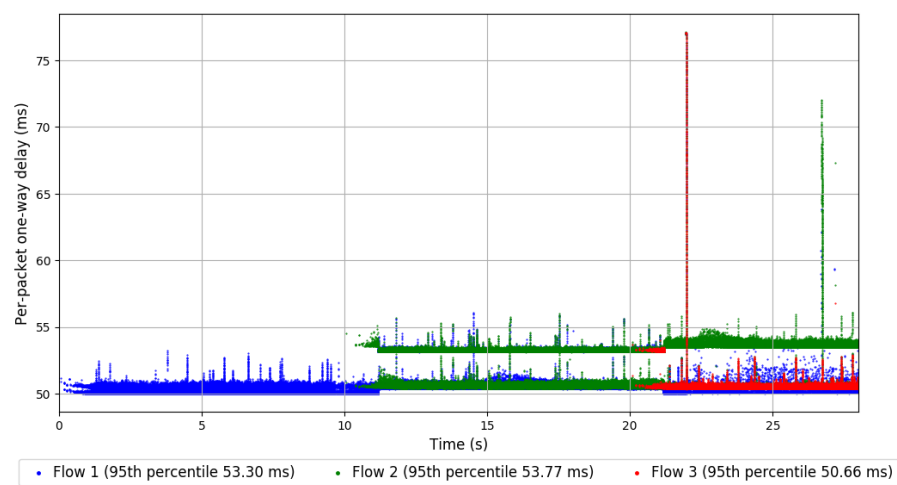
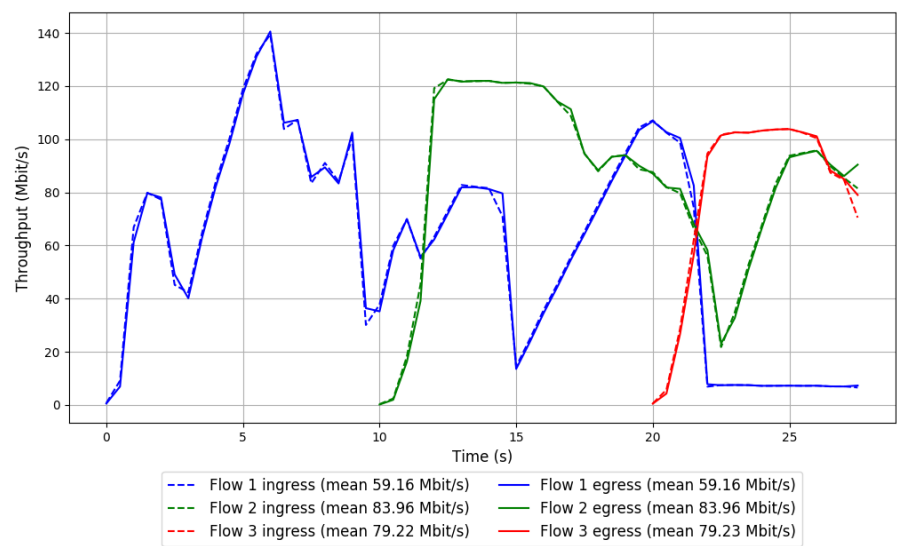
Average throughput: 79.23 Mbit/s

95th percentile per-packet one-way delay: 50.661 ms

Loss rate: 0.00%



Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2017-12-01 04:55:18

End at: 2017-12-01 04:55:48

# Below is generated by plot.py at 2017-12-01 08:13:53

# Datalink statistics

-- Total of 3 flows:

Average throughput: 153.34 Mbit/s

95th percentile per-packet one-way delay: 53.343 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 84.84 Mbit/s

95th percentile per-packet one-way delay: 53.302 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 74.88 Mbit/s

95th percentile per-packet one-way delay: 53.281 ms

Loss rate: 0.00%

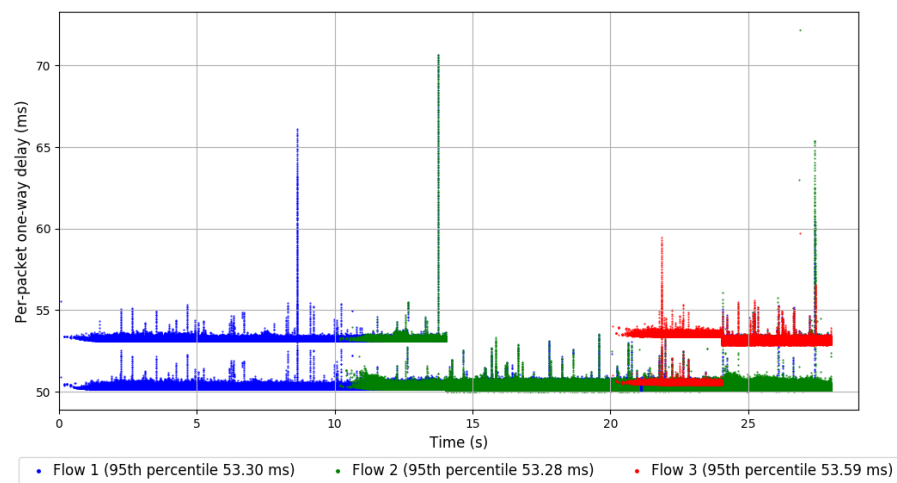
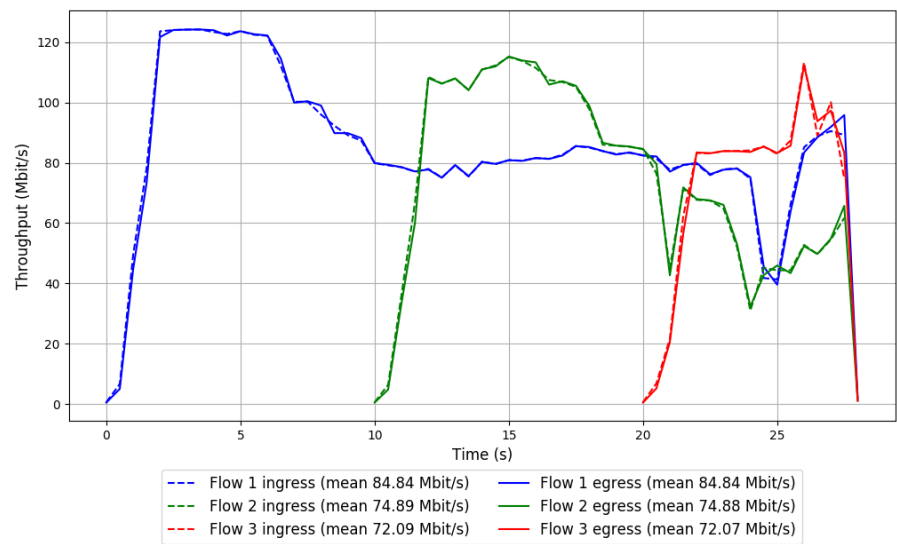
-- Flow 3:

Average throughput: 72.07 Mbit/s

95th percentile per-packet one-way delay: 53.592 ms

Loss rate: 0.00%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2017-12-01 05:07:03

End at: 2017-12-01 05:07:33

# Below is generated by plot.py at 2017-12-01 08:13:58

# Datalink statistics

-- Total of 3 flows:

Average throughput: 138.73 Mbit/s

95th percentile per-packet one-way delay: 53.322 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 63.55 Mbit/s

95th percentile per-packet one-way delay: 53.307 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 84.70 Mbit/s

95th percentile per-packet one-way delay: 53.328 ms

Loss rate: 0.00%

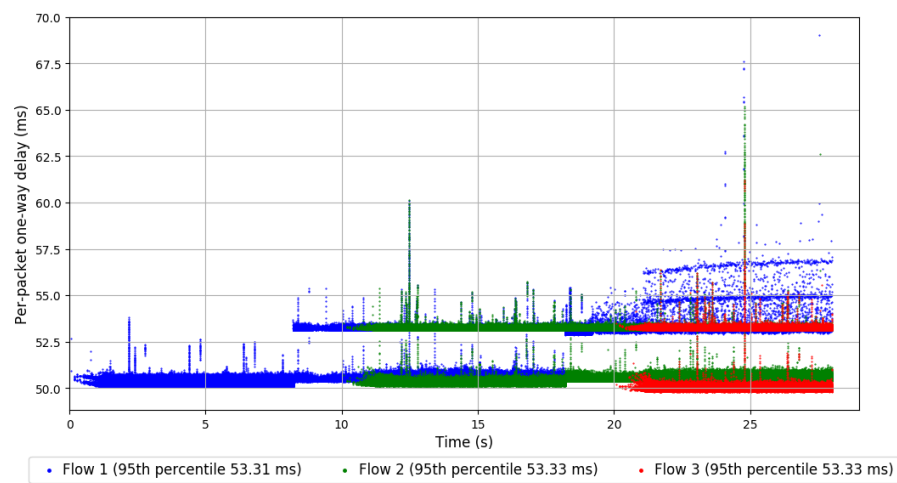
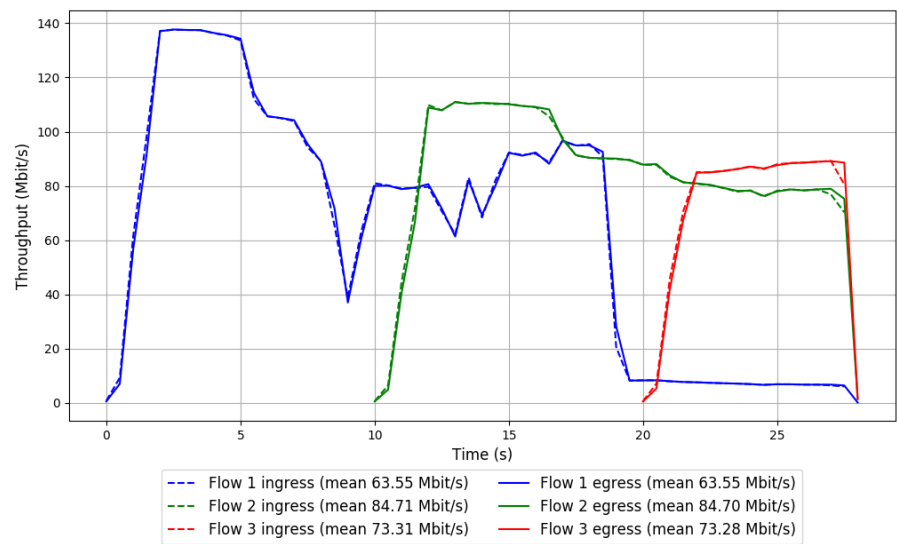
-- Flow 3:

Average throughput: 73.28 Mbit/s

95th percentile per-packet one-way delay: 53.333 ms

Loss rate: 0.00%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2017-12-01 05:18:51

End at: 2017-12-01 05:19:21

# Below is generated by plot.py at 2017-12-01 08:15:44

# Datalink statistics

-- Total of 3 flows:

Average throughput: 138.26 Mbit/s

95th percentile per-packet one-way delay: 53.288 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 73.63 Mbit/s

95th percentile per-packet one-way delay: 53.290 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 68.65 Mbit/s

95th percentile per-packet one-way delay: 53.238 ms

Loss rate: 0.00%

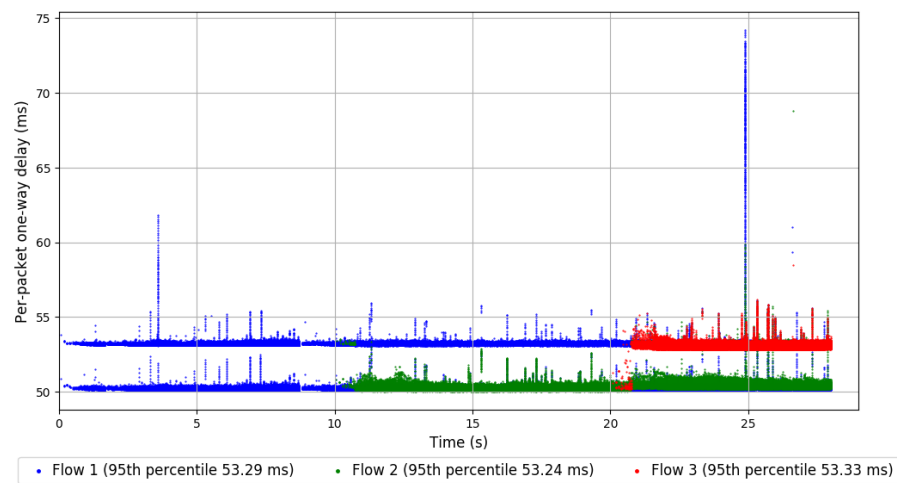
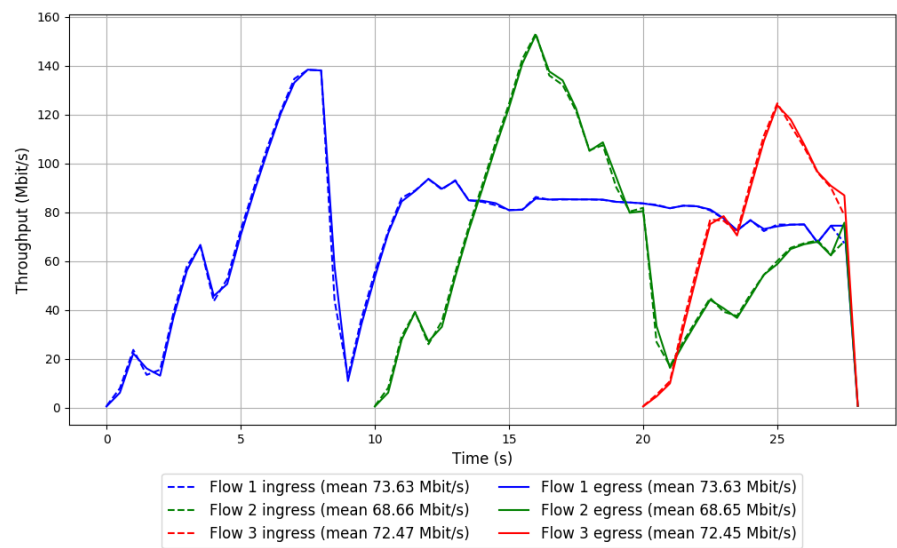
-- Flow 3:

Average throughput: 72.45 Mbit/s

95th percentile per-packet one-way delay: 53.333 ms

Loss rate: 0.00%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2017-12-01 05:30:55

End at: 2017-12-01 05:31:25

# Below is generated by plot.py at 2017-12-01 08:16:05

# Datalink statistics

-- Total of 3 flows:

Average throughput: 139.43 Mbit/s

95th percentile per-packet one-way delay: 53.500 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 82.52 Mbit/s

95th percentile per-packet one-way delay: 53.516 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 74.79 Mbit/s

95th percentile per-packet one-way delay: 53.416 ms

Loss rate: 0.00%

-- Flow 3:

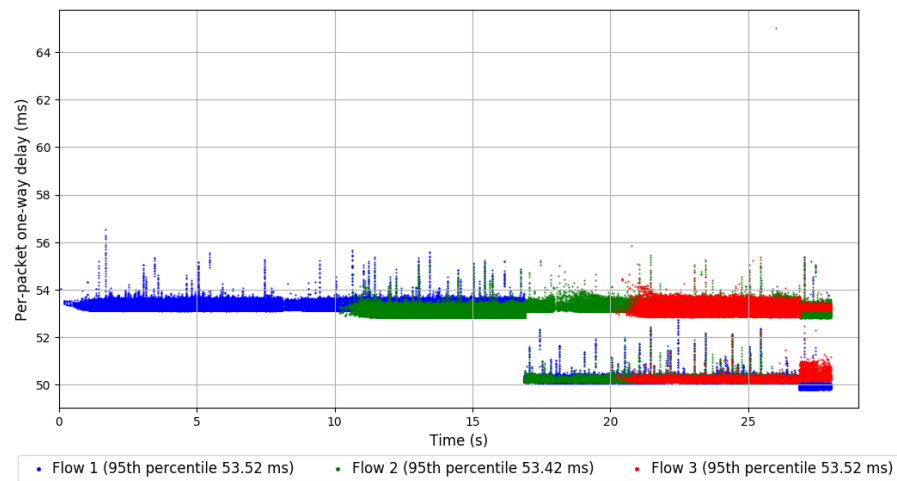
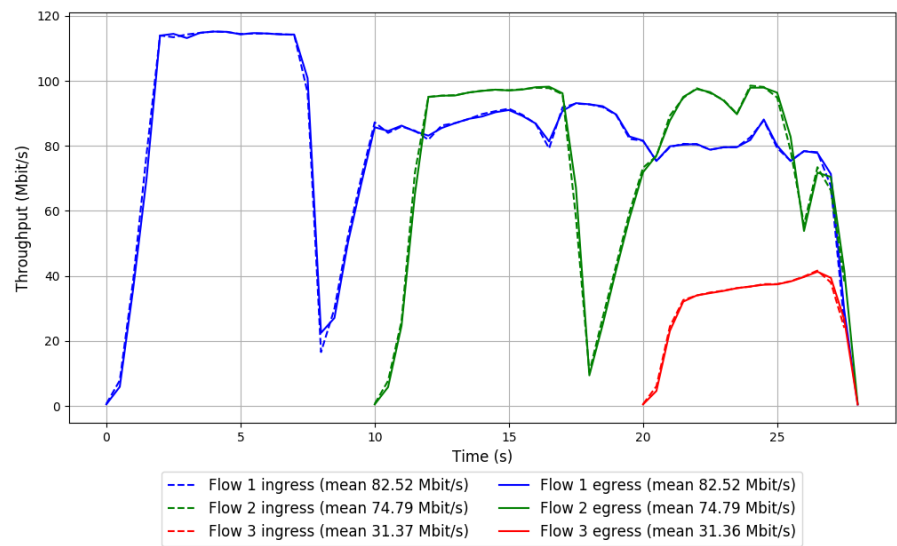
Average throughput: 31.36 Mbit/s

95th percentile per-packet one-way delay: 53.525 ms

Loss rate: 0.00%



Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2017-12-01 05:43:03

End at: 2017-12-01 05:43:33

# Below is generated by plot.py at 2017-12-01 08:16:17

# Datalink statistics

-- Total of 3 flows:

Average throughput: 129.07 Mbit/s

95th percentile per-packet one-way delay: 53.628 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 64.57 Mbit/s

95th percentile per-packet one-way delay: 53.269 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 69.14 Mbit/s

95th percentile per-packet one-way delay: 53.754 ms

Loss rate: 0.00%

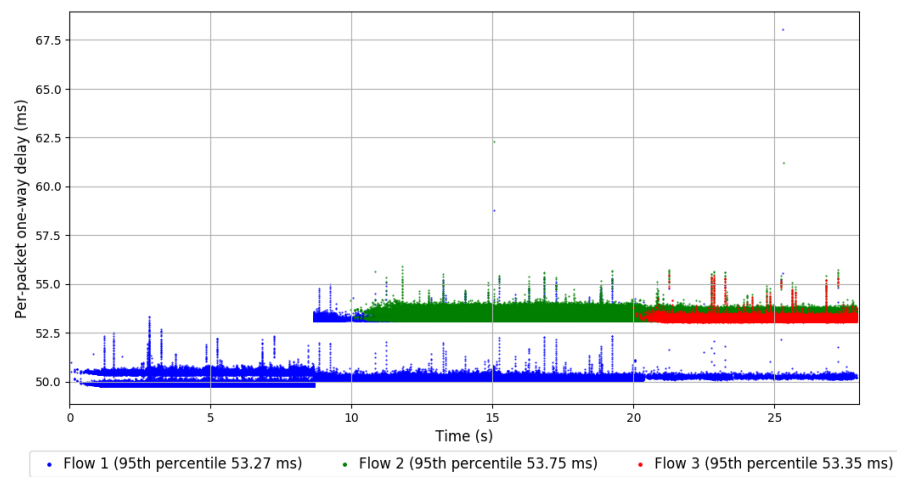
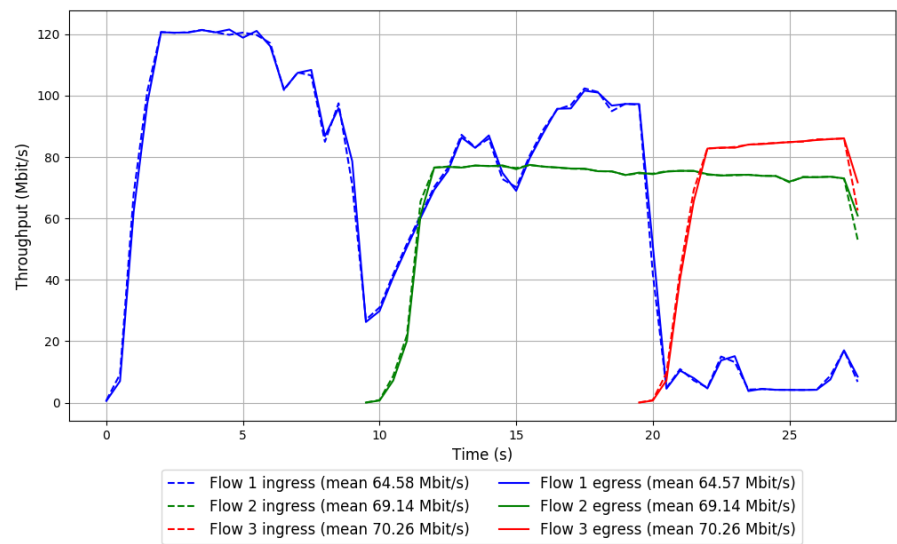
-- Flow 3:

Average throughput: 70.26 Mbit/s

95th percentile per-packet one-way delay: 53.350 ms

Loss rate: 0.00%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2017-12-01 05:54:50

End at: 2017-12-01 05:55:20

# Below is generated by plot.py at 2017-12-01 08:16:17

# Datalink statistics

-- Total of 3 flows:

Average throughput: 114.63 Mbit/s

95th percentile per-packet one-way delay: 53.248 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 50.88 Mbit/s

95th percentile per-packet one-way delay: 53.248 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 72.30 Mbit/s

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

Loss rate: 0.00%

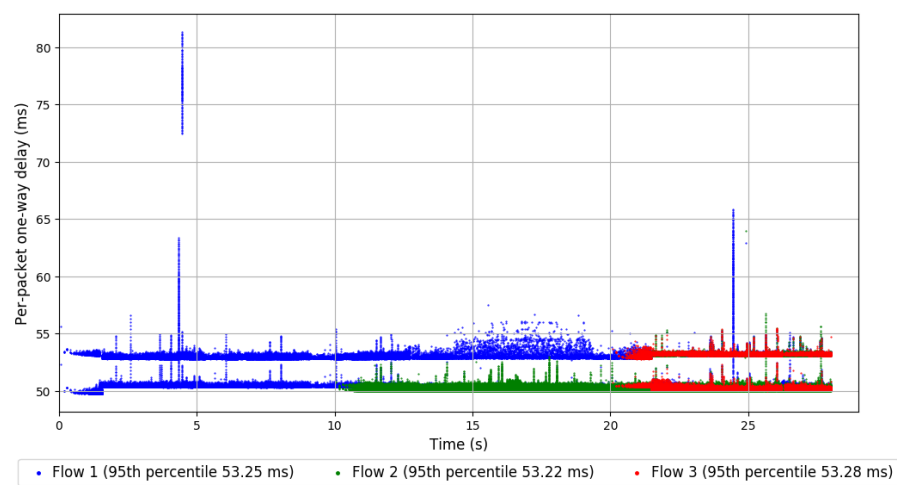
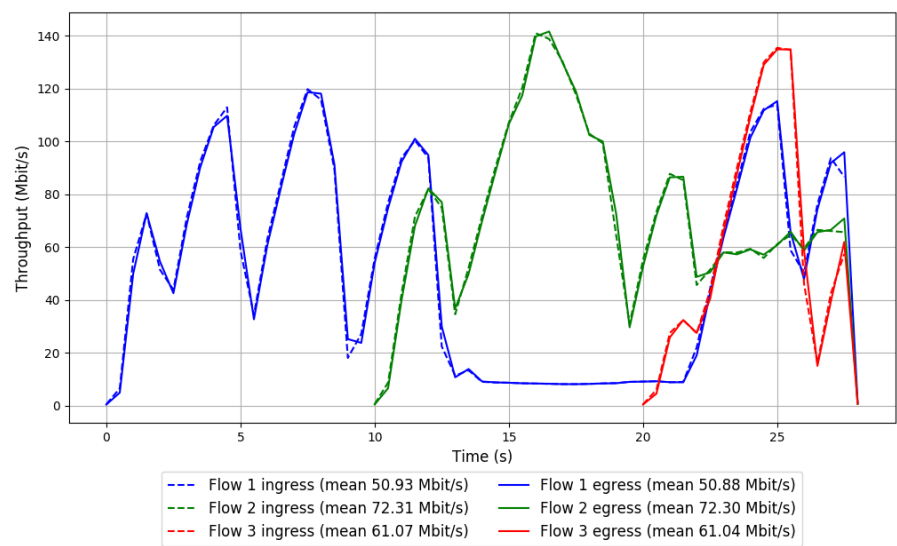
-- Flow 3:

Average throughput: 61.04 Mbit/s

95th percentile per-packet one-way delay: 53.285 ms

Loss rate: 0.01%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2017-12-01 06:07:05

End at: 2017-12-01 06:07:35

# Below is generated by plot.py at 2017-12-01 08:17:36

# Datalink statistics

-- Total of 3 flows:

Average throughput: 130.53 Mbit/s

95th percentile per-packet one-way delay: 53.203 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 79.00 Mbit/s

95th percentile per-packet one-way delay: 53.226 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 55.64 Mbit/s

95th percentile per-packet one-way delay: 53.089 ms

Loss rate: 0.00%

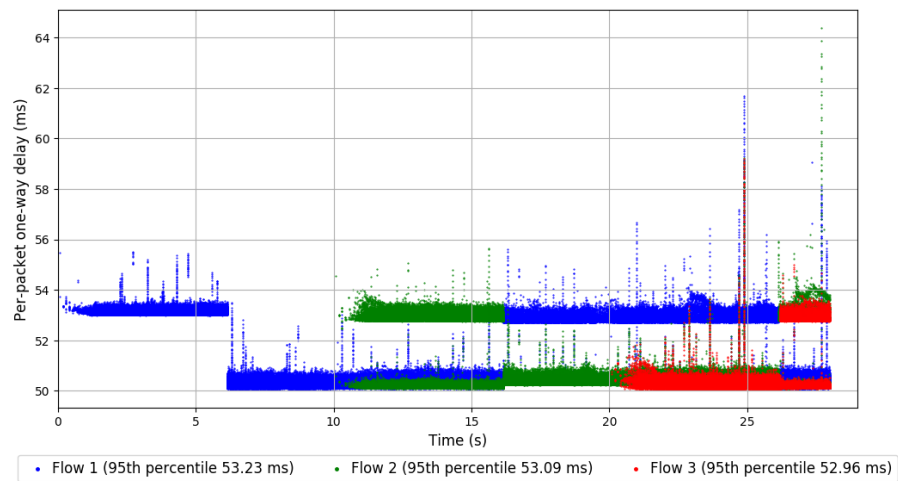
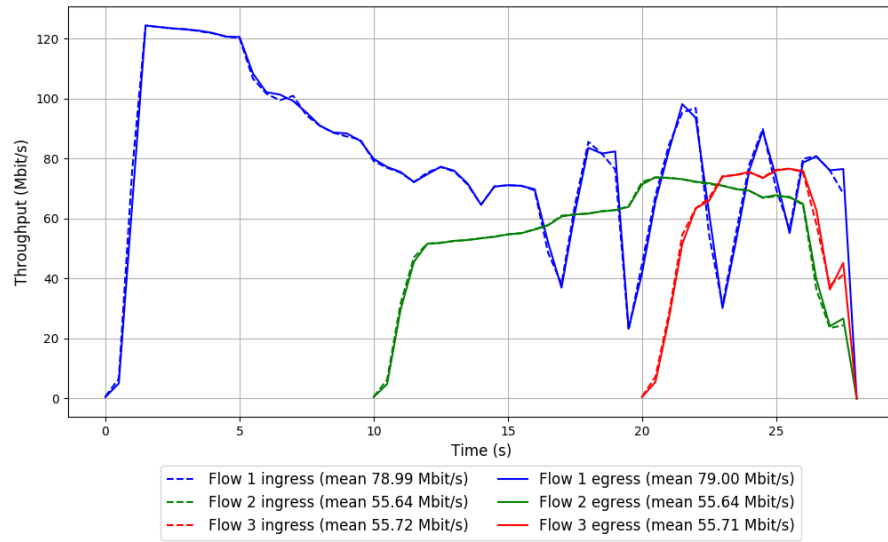
-- Flow 3:

Average throughput: 55.71 Mbit/s

95th percentile per-packet one-way delay: 52.963 ms

Loss rate: 0.00%

# Run 10: Report of Copa — Data Link



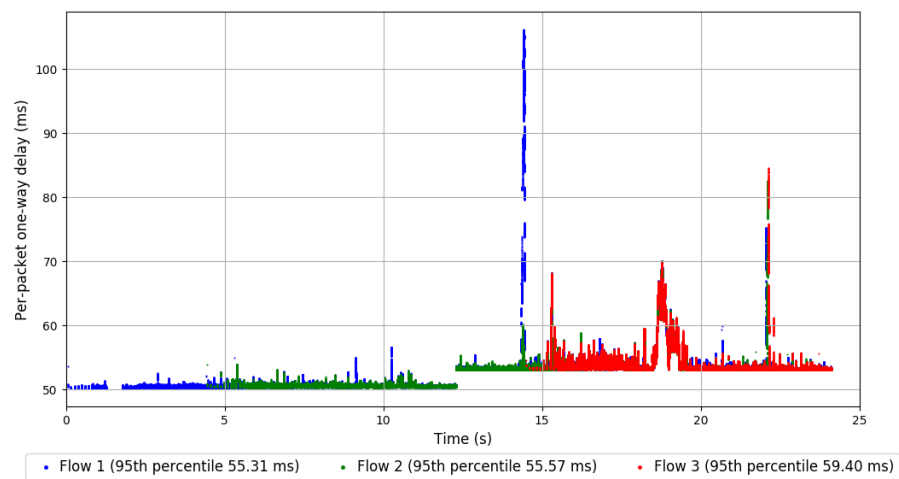
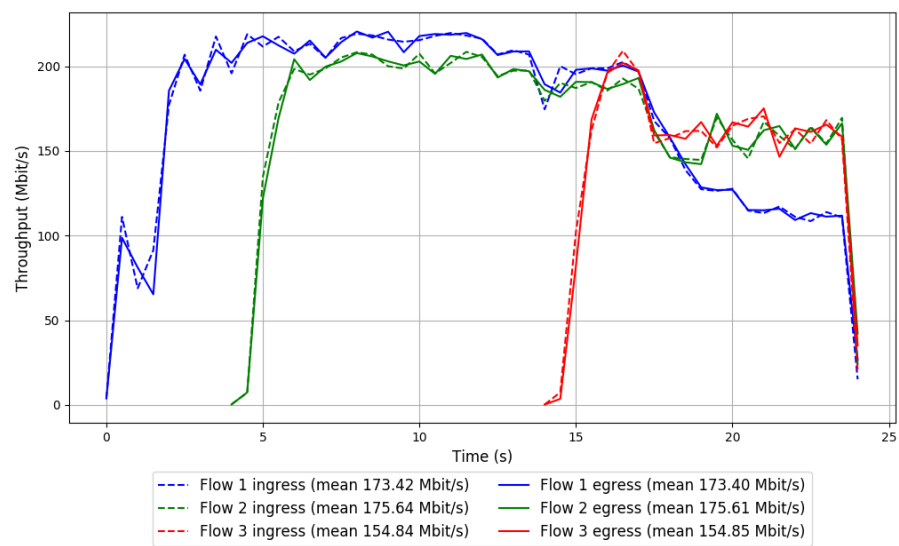
```
Run 1: Statistics of Indigo

Start at: 2017-12-01 04:23:35
End at: 2017-12-01 04:24:05

# Below is generated by plot.py at 2017-12-01 08:19:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 378.94 Mbit/s
95th percentile per-packet one-way delay: 56.227 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 173.40 Mbit/s
95th percentile per-packet one-way delay: 55.307 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 175.61 Mbit/s
95th percentile per-packet one-way delay: 55.567 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 154.85 Mbit/s
95th percentile per-packet one-way delay: 59.400 ms
Loss rate: 0.00%
```



Run 1: Report of Indigo — Data Link

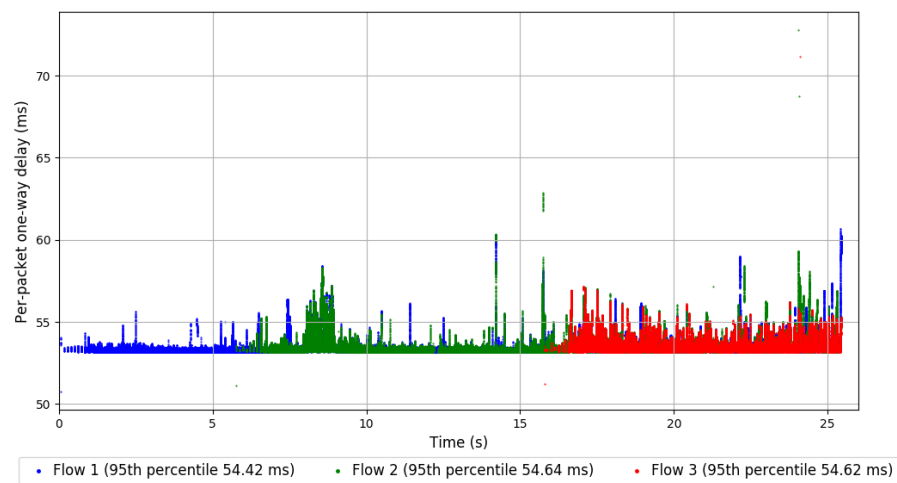
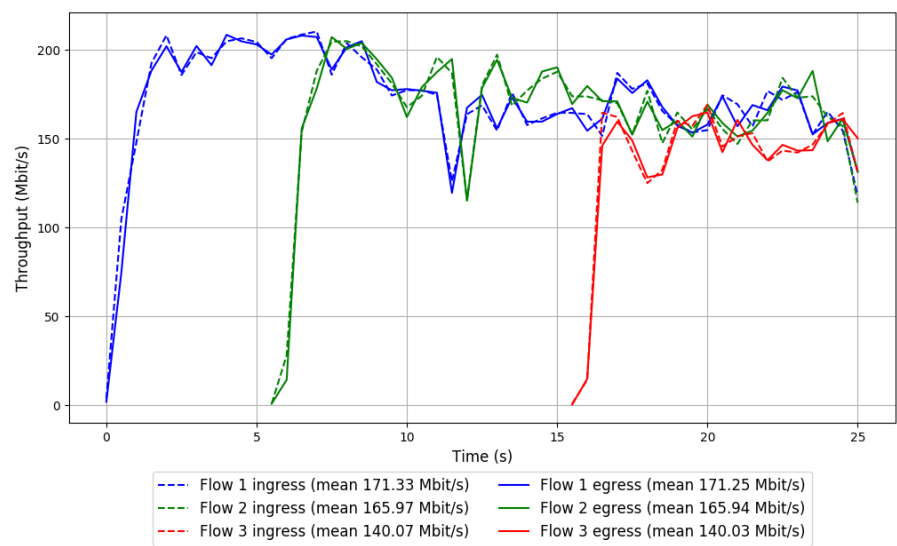


```
Run 2: Statistics of Indigo

Start at: 2017-12-01 04:35:25
End at: 2017-12-01 04:35:55

# Below is generated by plot.py at 2017-12-01 08:19:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 353.09 Mbit/s
95th percentile per-packet one-way delay: 54.536 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 171.25 Mbit/s
95th percentile per-packet one-way delay: 54.419 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 165.94 Mbit/s
95th percentile per-packet one-way delay: 54.636 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 140.03 Mbit/s
95th percentile per-packet one-way delay: 54.615 ms
Loss rate: 0.00%
```

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2017-12-01 04:47:27

End at: 2017-12-01 04:47:57

# Below is generated by plot.py at 2017-12-01 08:19:04

# Datalink statistics

-- Total of 3 flows:

Average throughput: 359.74 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 173.87 Mbit/s

95th percentile per-packet one-way delay: 53.943 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 162.00 Mbit/s

95th percentile per-packet one-way delay: 54.116 ms

Loss rate: 0.00%

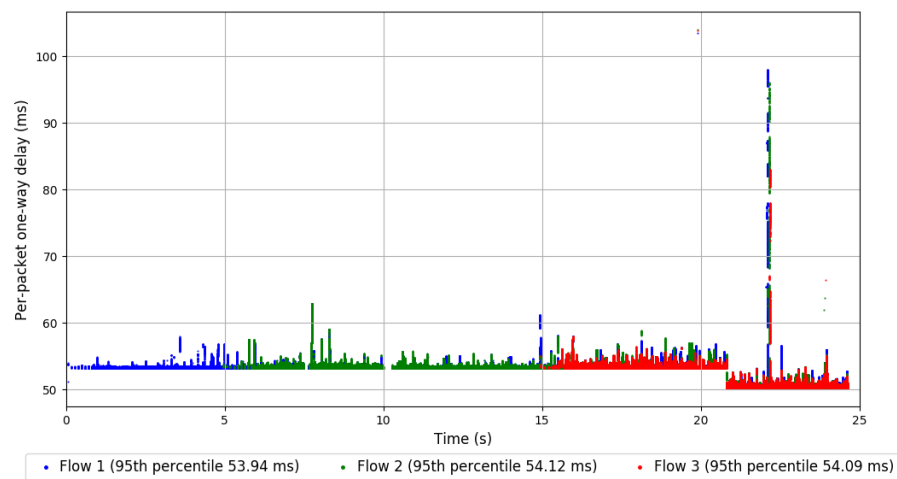
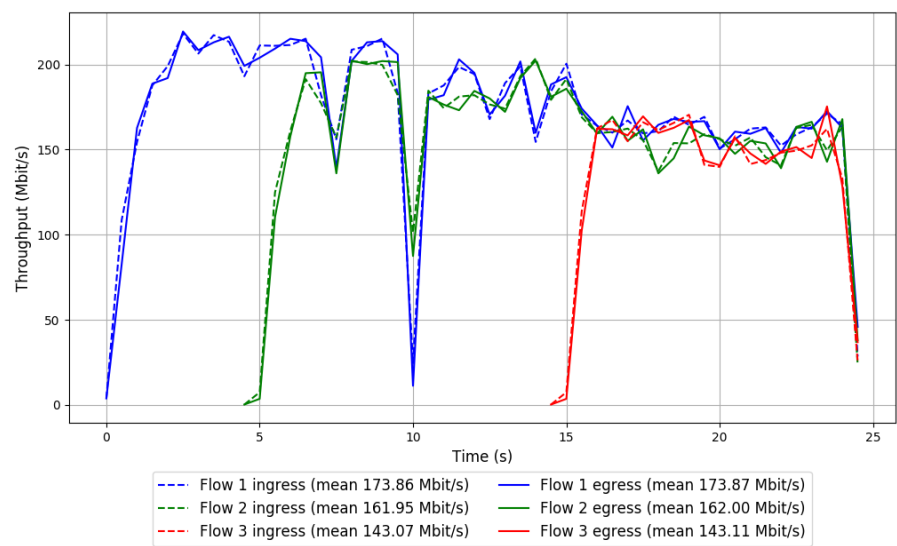
-- Flow 3:

Average throughput: 143.11 Mbit/s

95th percentile per-packet one-way delay: 54.091 ms

Loss rate: 0.01%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2017-12-01 04:59:17

End at: 2017-12-01 04:59:47

# Below is generated by plot.py at 2017-12-01 08:21:34

# Datalink statistics

-- Total of 3 flows:

Average throughput: 347.57 Mbit/s

95th percentile per-packet one-way delay: 54.228 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 184.22 Mbit/s

95th percentile per-packet one-way delay: 53.904 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 174.37 Mbit/s

95th percentile per-packet one-way delay: 54.143 ms

Loss rate: 0.00%

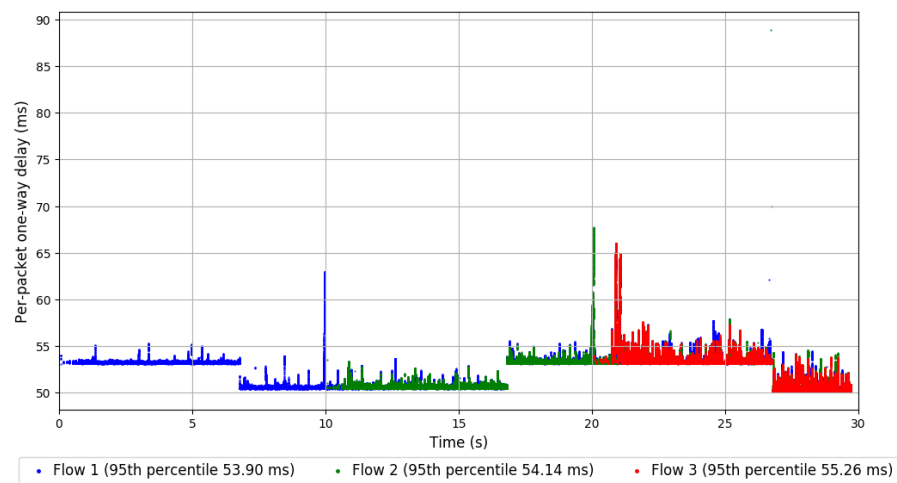
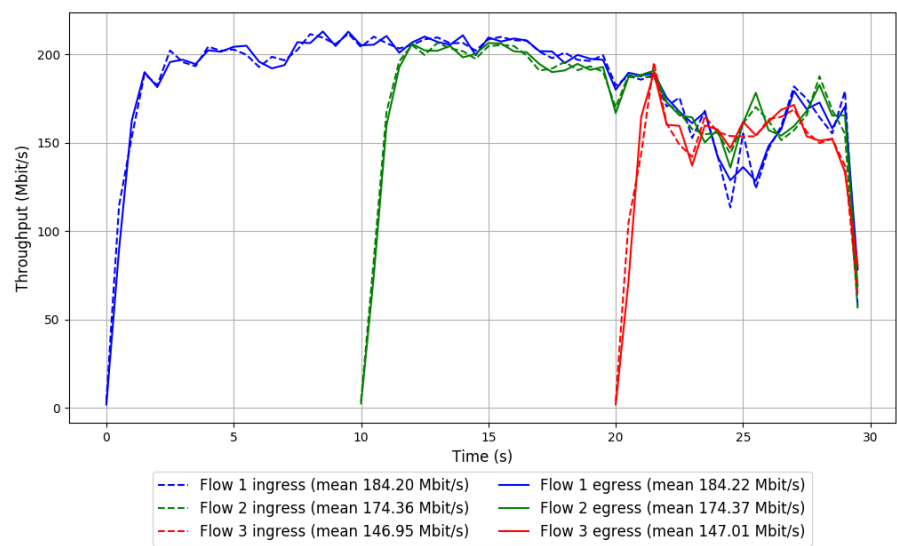
-- Flow 3:

Average throughput: 147.01 Mbit/s

95th percentile per-packet one-way delay: 55.257 ms

Loss rate: 0.00%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2017-12-01 05:11:00

End at: 2017-12-01 05:11:30

# Below is generated by plot.py at 2017-12-01 08:21:40

# Datalink statistics

-- Total of 3 flows:

Average throughput: 344.42 Mbit/s

95th percentile per-packet one-way delay: 54.023 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 180.44 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 173.28 Mbit/s

95th percentile per-packet one-way delay: 54.308 ms

Loss rate: 0.00%

-- Flow 3:

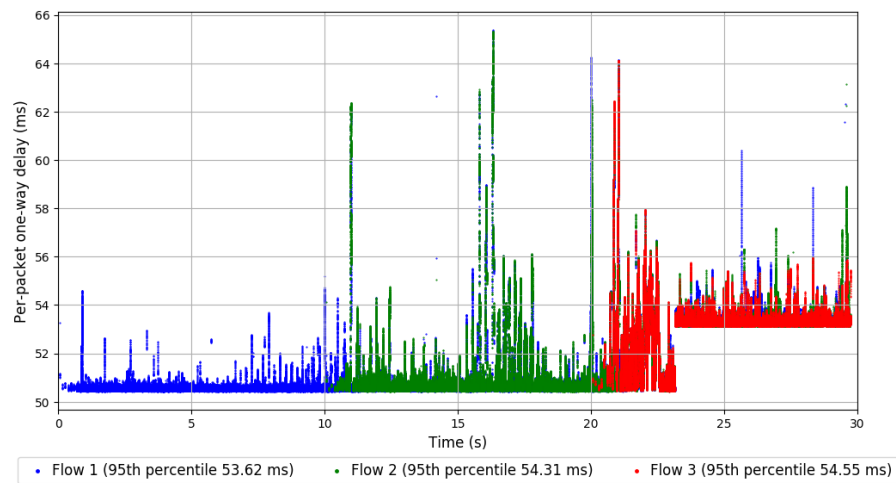
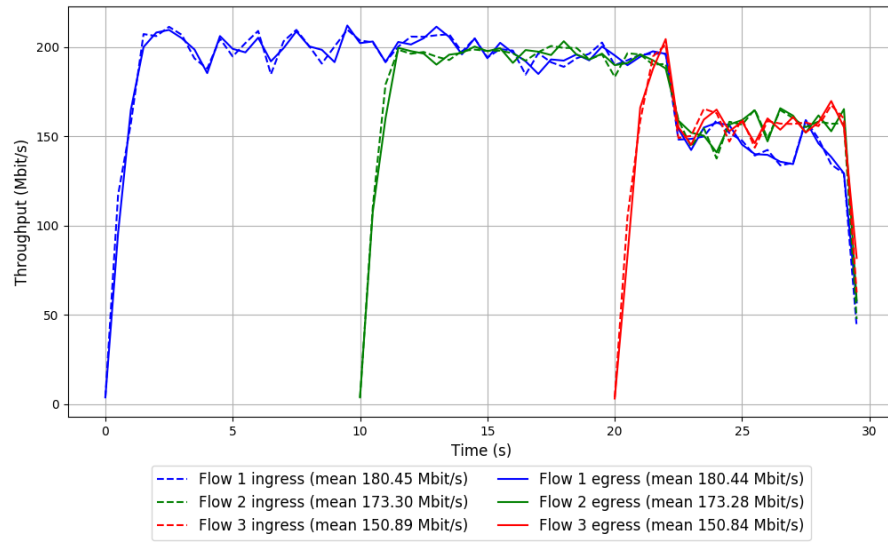
Average throughput: 150.84 Mbit/s

95th percentile per-packet one-way delay: 54.553 ms

Loss rate: 0.00%



## Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2017-12-01 05:22:47

End at: 2017-12-01 05:23:17

# Below is generated by plot.py at 2017-12-01 08:21:40

# Datalink statistics

-- Total of 3 flows:

Average throughput: 334.20 Mbit/s

95th percentile per-packet one-way delay: 53.605 ms

Loss rate: 0.21%

-- Flow 1:

Average throughput: 176.79 Mbit/s

95th percentile per-packet one-way delay: 53.503 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 168.41 Mbit/s

95th percentile per-packet one-way delay: 53.714 ms

Loss rate: 0.21%

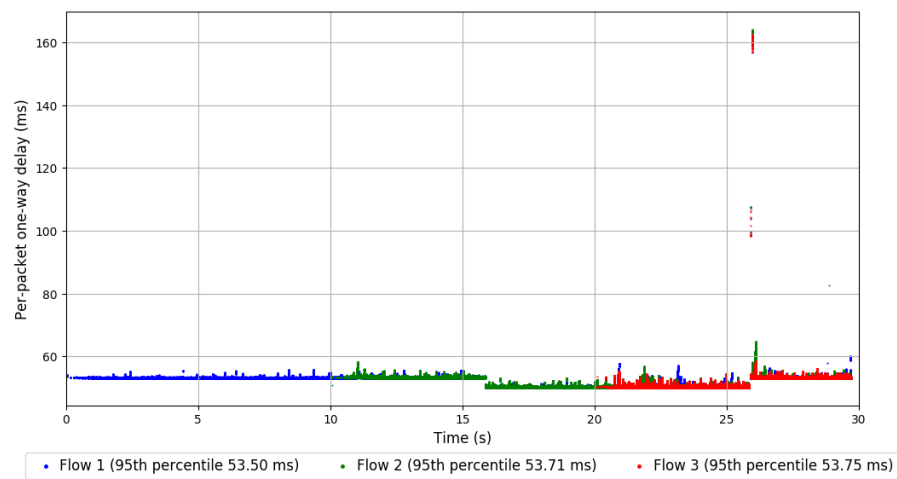
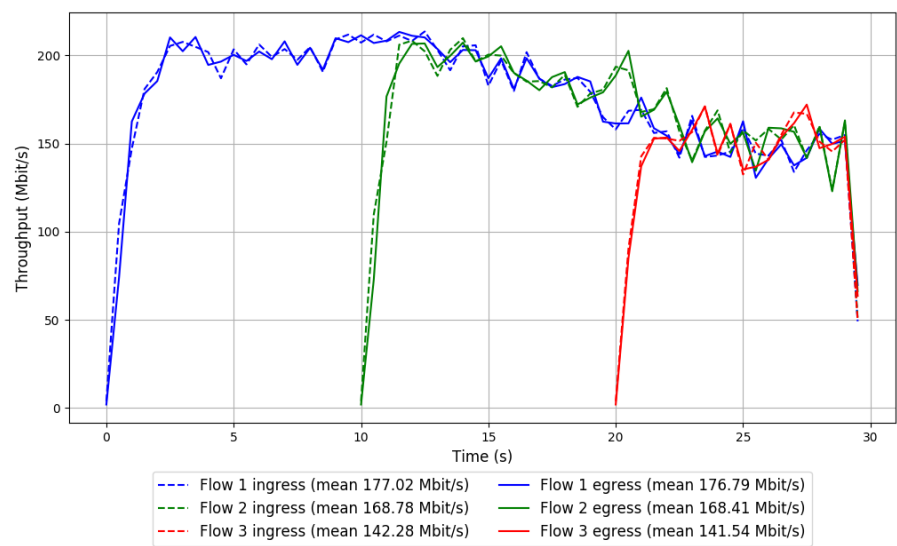
-- Flow 3:

Average throughput: 141.54 Mbit/s

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

Loss rate: 0.49%

Run 6: Report of Indigo — Data Link

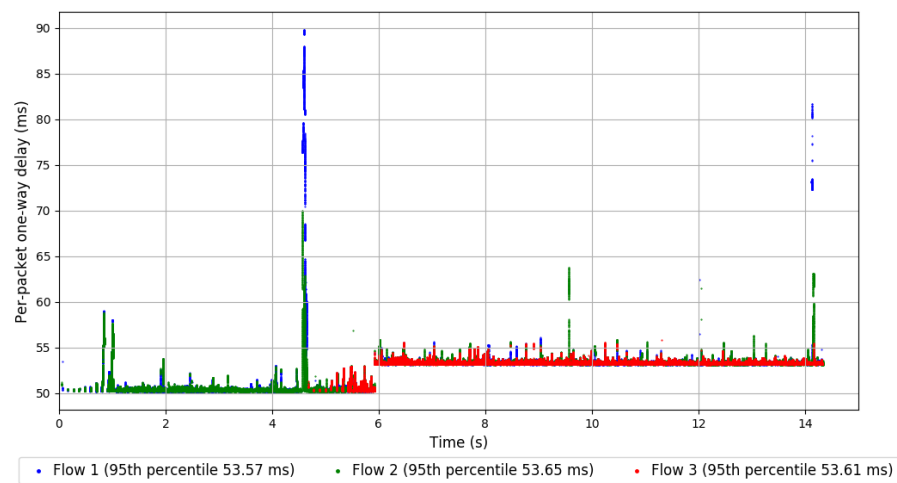
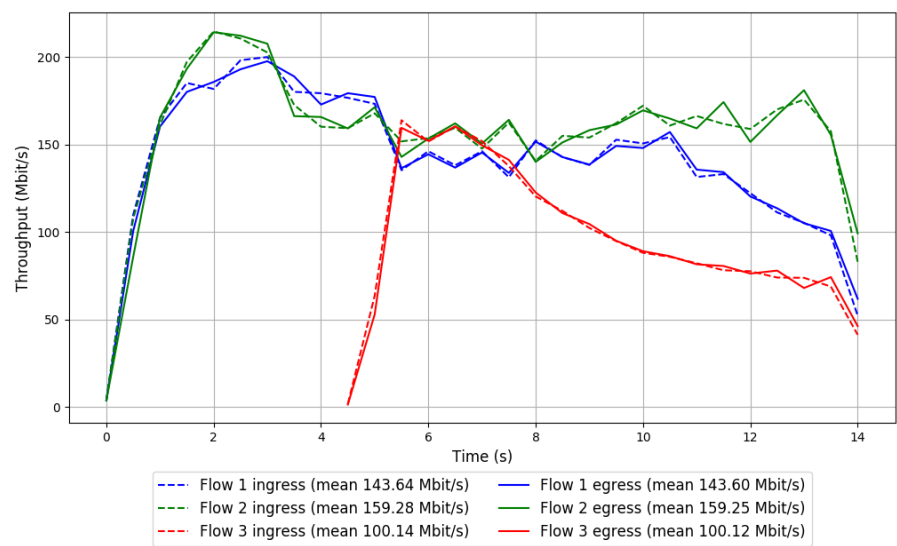


Run 7: Statistics of Indigo

Start at: 2017-12-01 05:34:52

End at: 2017-12-01 05:35:22

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2017-12-01 05:46:59

End at: 2017-12-01 05:47:29

# Below is generated by plot.py at 2017-12-01 08:23:11

# Datalink statistics

-- Total of 3 flows:

Average throughput: 310.69 Mbit/s

95th percentile per-packet one-way delay: 53.490 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 158.23 Mbit/s

95th percentile per-packet one-way delay: 53.387 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 160.50 Mbit/s

95th percentile per-packet one-way delay: 53.532 ms

Loss rate: 0.00%

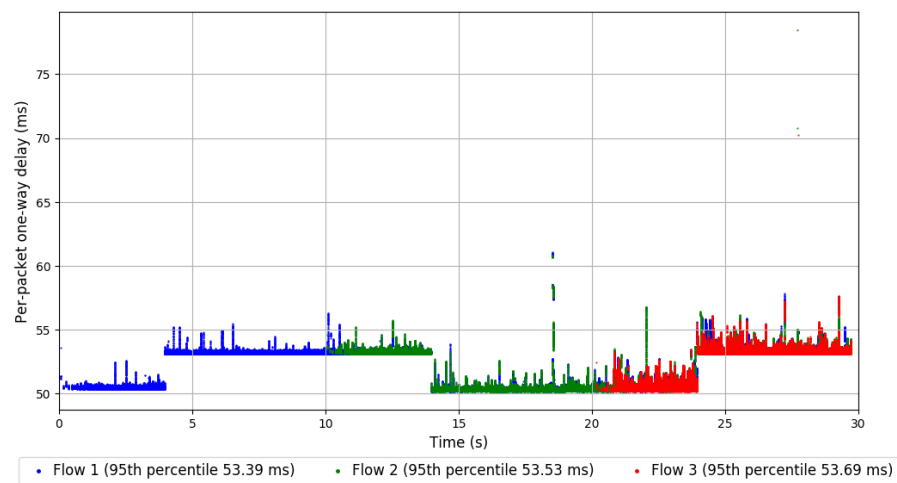
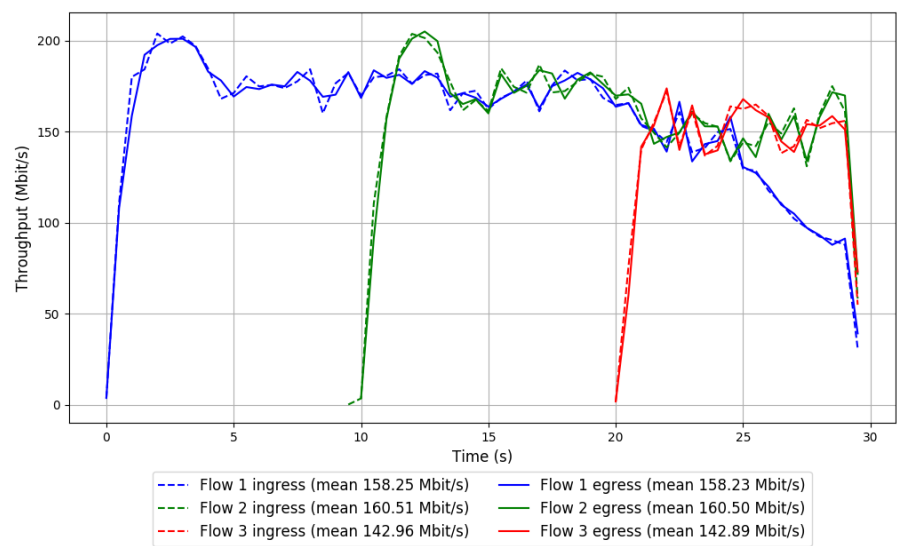
-- Flow 3:

Average throughput: 142.89 Mbit/s

95th percentile per-packet one-way delay: 53.687 ms

Loss rate: 0.03%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2017-12-01 05:58:45

End at: 2017-12-01 05:59:15

# Below is generated by plot.py at 2017-12-01 08:24:45

# Datalink statistics

-- Total of 3 flows:

Average throughput: 332.12 Mbit/s

95th percentile per-packet one-way delay: 53.254 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 180.46 Mbit/s

95th percentile per-packet one-way delay: 53.248 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 172.01 Mbit/s

95th percentile per-packet one-way delay: 53.252 ms

Loss rate: 0.00%

-- Flow 3:

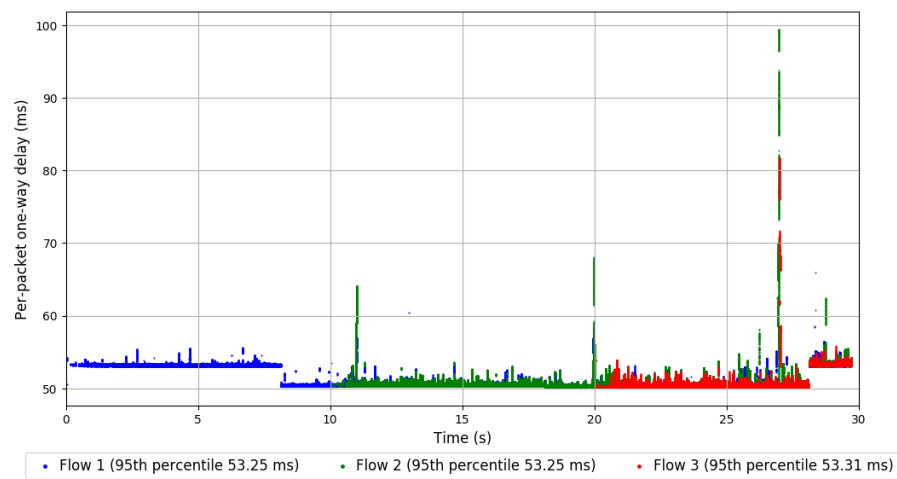
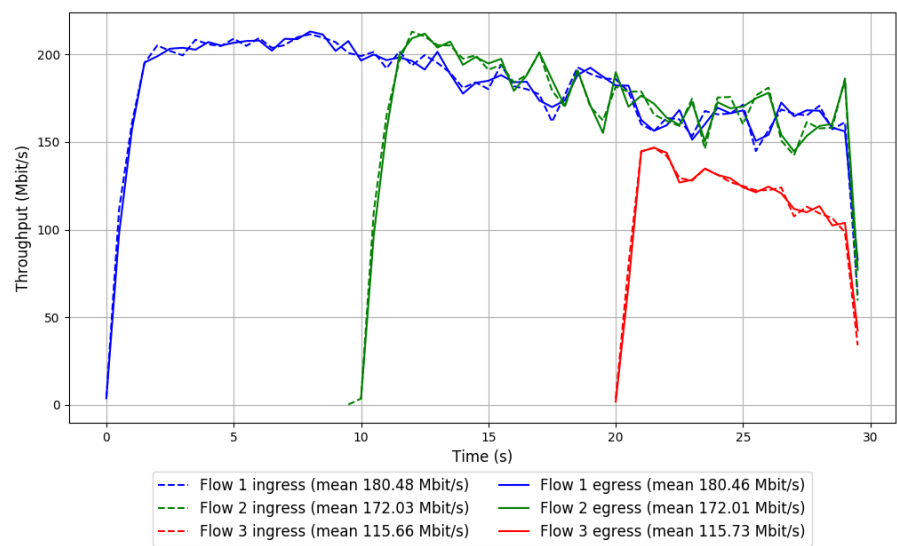
Average throughput: 115.73 Mbit/s

95th percentile per-packet one-way delay: 53.312 ms

Loss rate: 0.00%



Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2017-12-01 06:11:01

End at: 2017-12-01 06:11:31

# Below is generated by plot.py at 2017-12-01 08:24:45

# Datalink statistics

-- Total of 3 flows:

Average throughput: 375.69 Mbit/s

95th percentile per-packet one-way delay: 53.628 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 178.02 Mbit/s

95th percentile per-packet one-way delay: 53.521 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 172.64 Mbit/s

95th percentile per-packet one-way delay: 53.650 ms

Loss rate: 0.00%

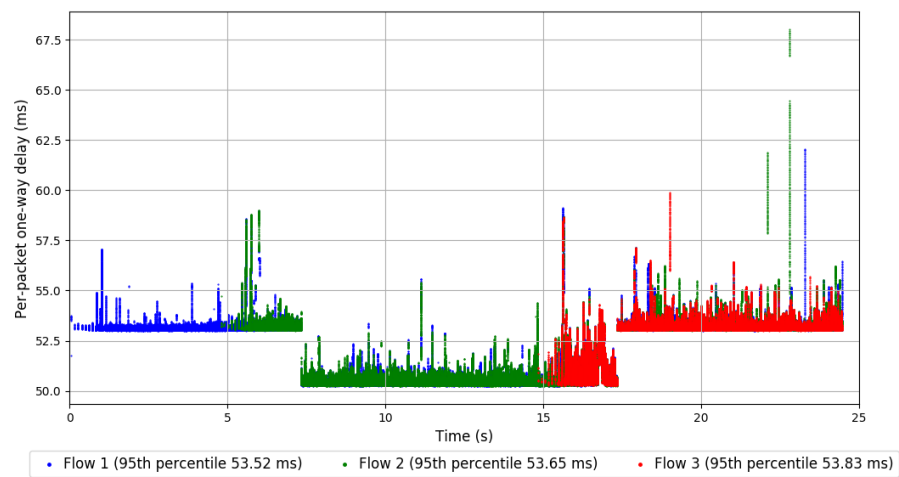
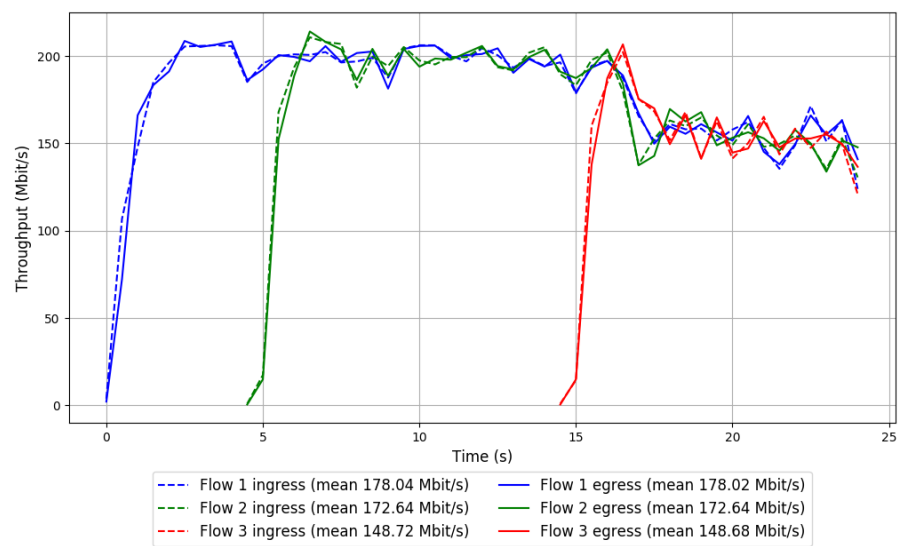
-- Flow 3:

Average throughput: 148.68 Mbit/s

95th percentile per-packet one-way delay: 53.831 ms

Loss rate: 0.00%

Run 10: Report of Indigo — Data Link

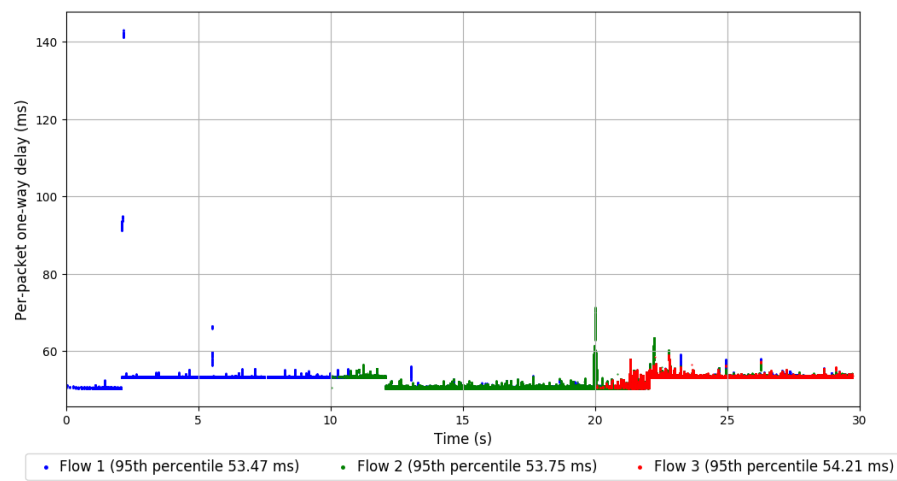
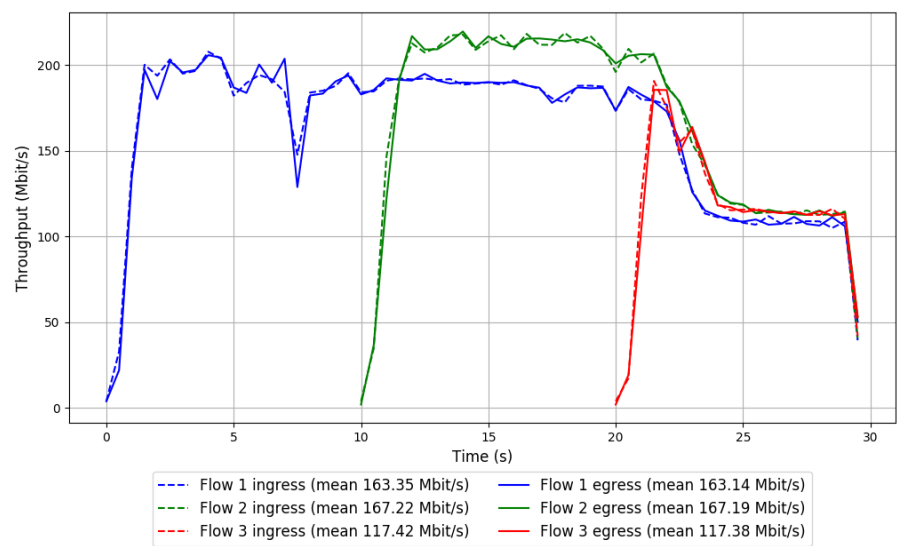


```
Run 1: Statistics of Indigo-calib

Start at: 2017-12-01 04:25:31
End at: 2017-12-01 04:26:01

# Below is generated by plot.py at 2017-12-01 08:24:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 312.09 Mbit/s
95th percentile per-packet one-way delay: 53.653 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 163.14 Mbit/s
95th percentile per-packet one-way delay: 53.472 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 167.19 Mbit/s
95th percentile per-packet one-way delay: 53.750 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 117.38 Mbit/s
95th percentile per-packet one-way delay: 54.207 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo-calib — Data Link

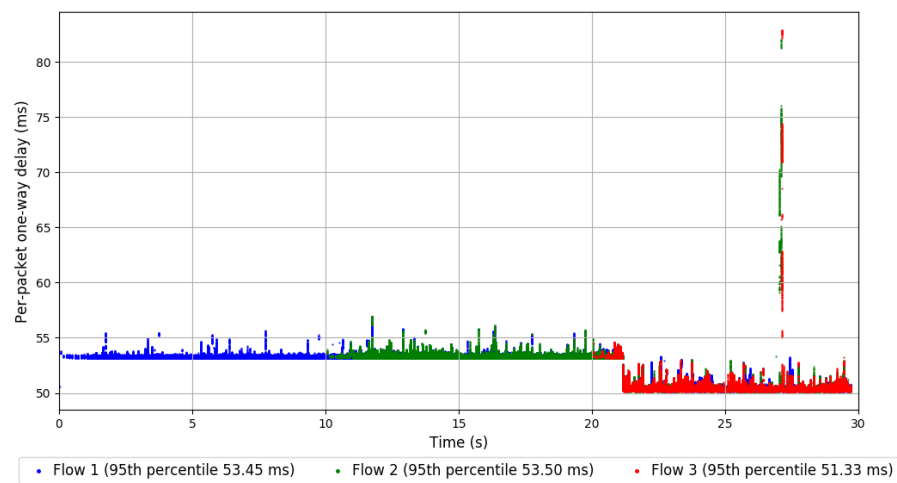
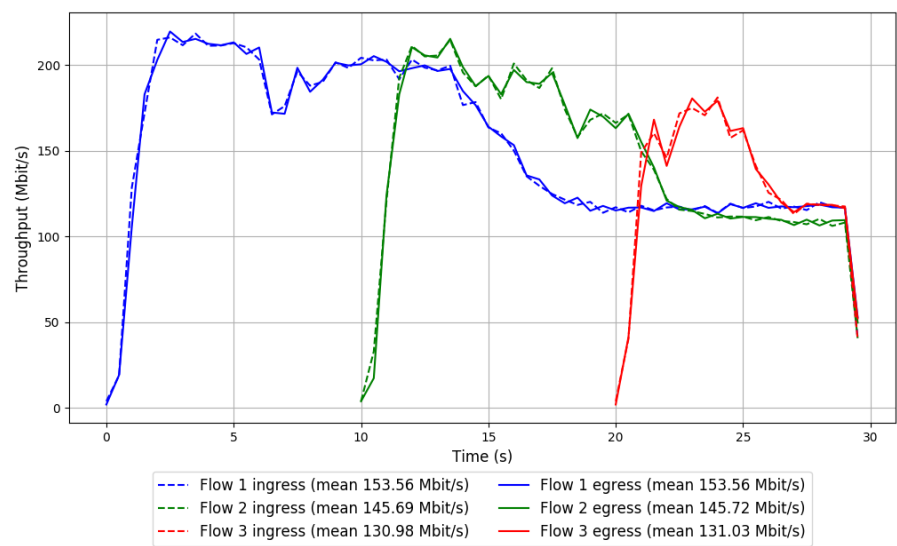


```
Run 2: Statistics of Indigo-calib

Start at: 2017-12-01 04:37:12
End at: 2017-12-01 04:37:42

# Below is generated by plot.py at 2017-12-01 08:24:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 292.81 Mbit/s
95th percentile per-packet one-way delay: 53.450 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 153.56 Mbit/s
95th percentile per-packet one-way delay: 53.451 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 145.72 Mbit/s
95th percentile per-packet one-way delay: 53.501 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 131.03 Mbit/s
95th percentile per-packet one-way delay: 51.329 ms
Loss rate: 0.00%
```

Run 2: Report of Indigo-calib — Data Link



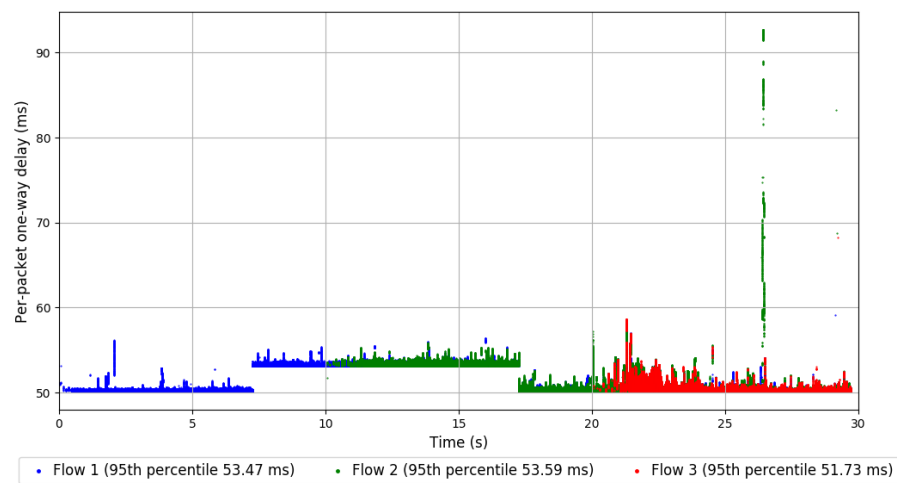
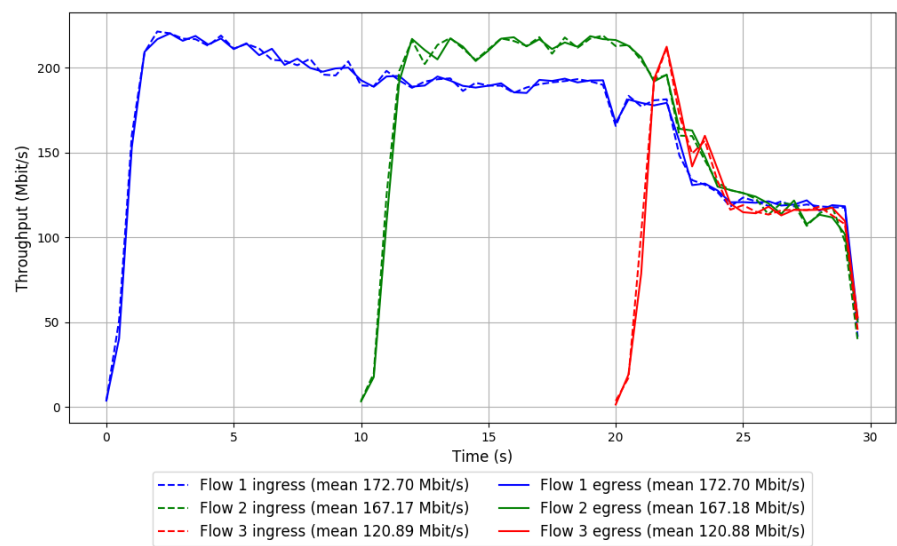
```
Run 3: Statistics of Indigo-calib

Start at: 2017-12-01 04:49:16
End at: 2017-12-01 04:49:46

# Below is generated by plot.py at 2017-12-01 08:27:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 322.83 Mbit/s
95th percentile per-packet one-way delay: 53.494 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 172.70 Mbit/s
95th percentile per-packet one-way delay: 53.469 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 167.18 Mbit/s
95th percentile per-packet one-way delay: 53.588 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 120.88 Mbit/s
95th percentile per-packet one-way delay: 51.731 ms
Loss rate: 0.01%
```



Run 3: Report of Indigo-calib — Data Link



Run 4: Statistics of Indigo-calib

Start at: 2017-12-01 05:01:09

End at: 2017-12-01 05:01:39

# Below is generated by plot.py at 2017-12-01 08:27:05

# Datalink statistics

-- Total of 3 flows:

Average throughput: 317.61 Mbit/s

95th percentile per-packet one-way delay: 53.875 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 172.78 Mbit/s

95th percentile per-packet one-way delay: 53.550 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 159.32 Mbit/s

95th percentile per-packet one-way delay: 54.040 ms

Loss rate: 0.00%

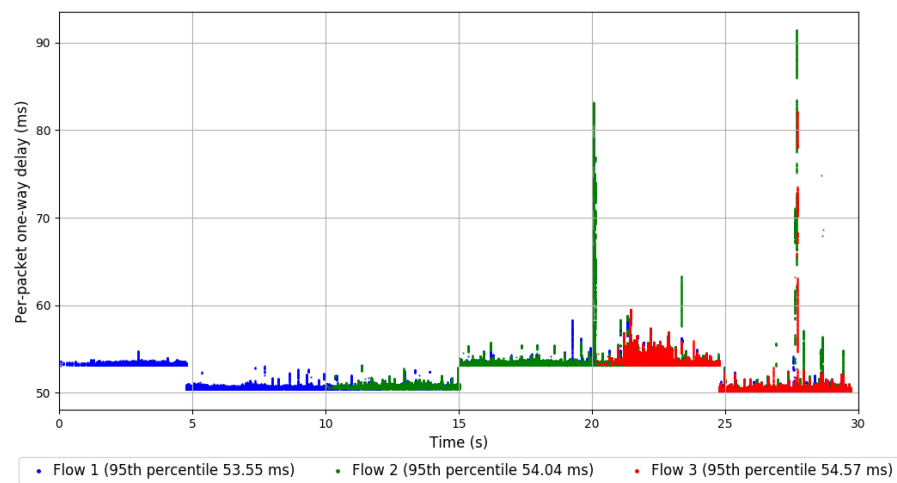
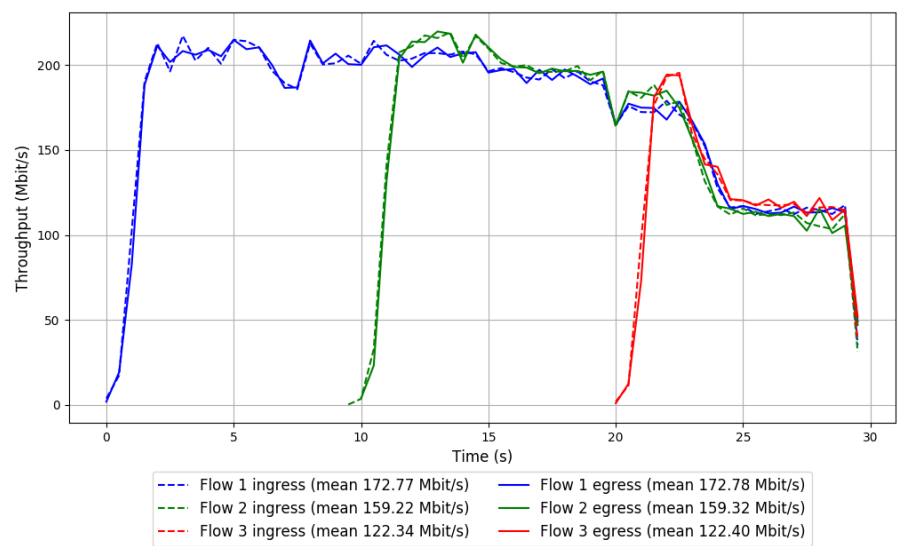
-- Flow 3:

Average throughput: 122.40 Mbit/s

95th percentile per-packet one-way delay: 54.568 ms

Loss rate: 0.00%

Run 4: Report of Indigo-calib — Data Link

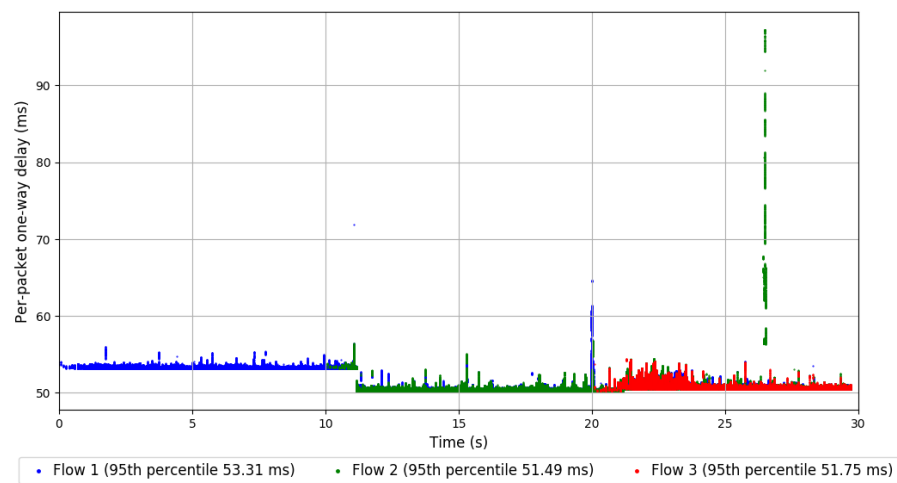
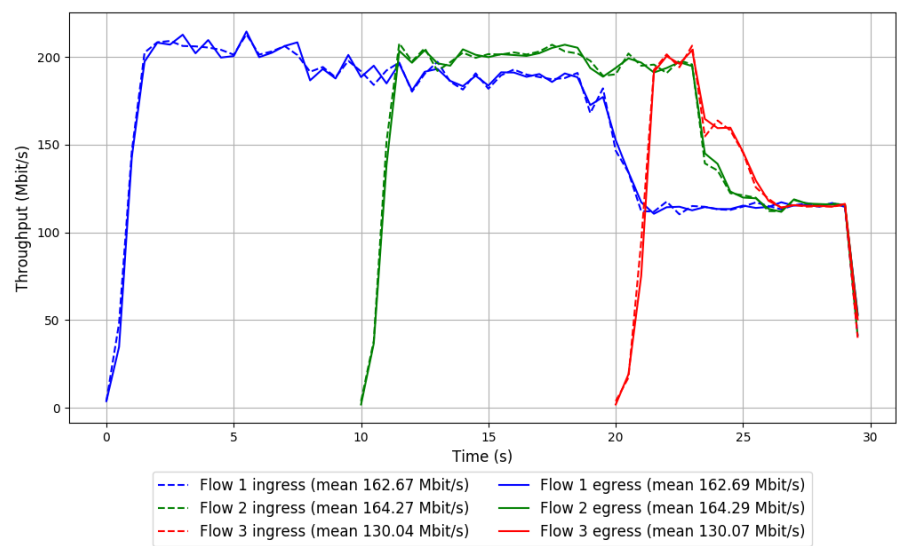


```
Run 5: Statistics of Indigo-calib

Start at: 2017-12-01 05:12:52
End at: 2017-12-01 05:13:22

# Below is generated by plot.py at 2017-12-01 08:27:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 313.71 Mbit/s
95th percentile per-packet one-way delay: 53.271 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 162.69 Mbit/s
95th percentile per-packet one-way delay: 53.307 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 164.29 Mbit/s
95th percentile per-packet one-way delay: 51.487 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 130.07 Mbit/s
95th percentile per-packet one-way delay: 51.748 ms
Loss rate: 0.01%
```

Run 5: Report of Indigo-calib — Data Link



Run 6: Statistics of Indigo-calib

Start at: 2017-12-01 05:24:36

End at: 2017-12-01 05:25:06

# Below is generated by plot.py at 2017-12-01 08:27:49

# Datalink statistics

-- Total of 3 flows:

Average throughput: 308.59 Mbit/s

95th percentile per-packet one-way delay: 53.287 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 166.63 Mbit/s

95th percentile per-packet one-way delay: 53.288 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 144.36 Mbit/s

95th percentile per-packet one-way delay: 53.262 ms

Loss rate: 0.00%

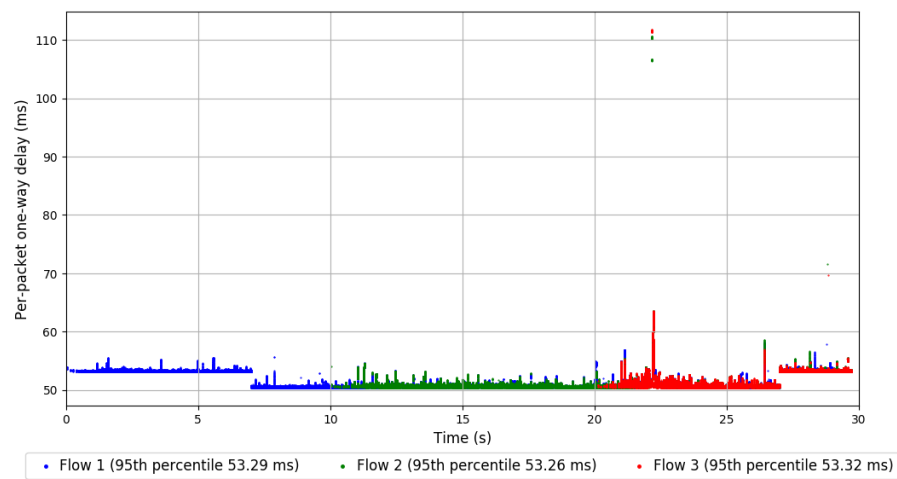
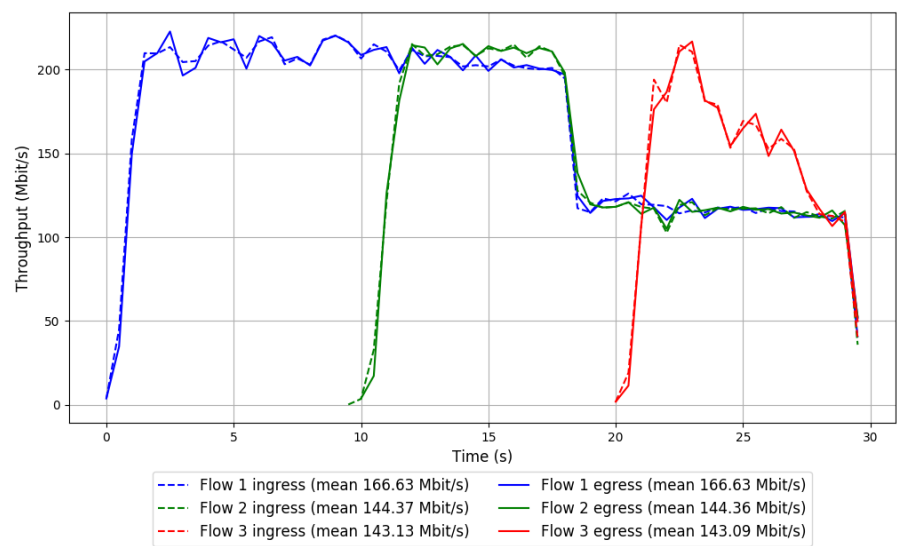
-- Flow 3:

Average throughput: 143.09 Mbit/s

95th percentile per-packet one-way delay: 53.321 ms

Loss rate: 0.00%

Run 6: Report of Indigo-calib — Data Link



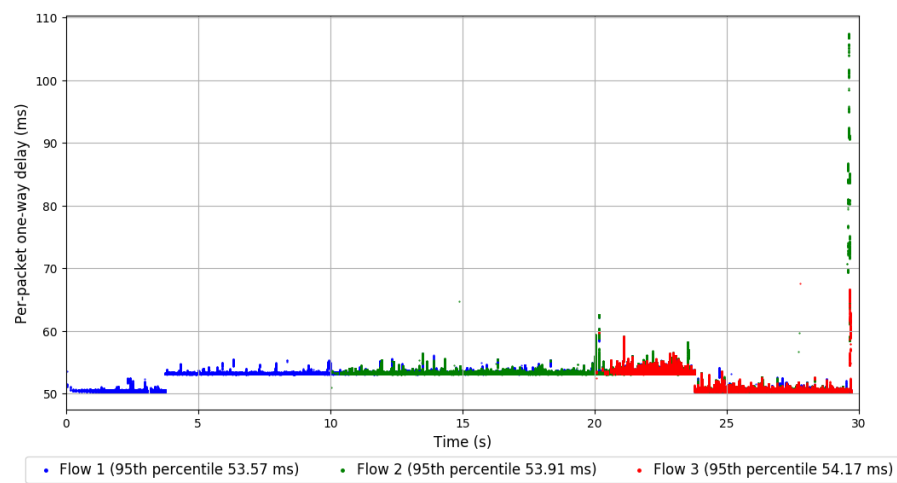
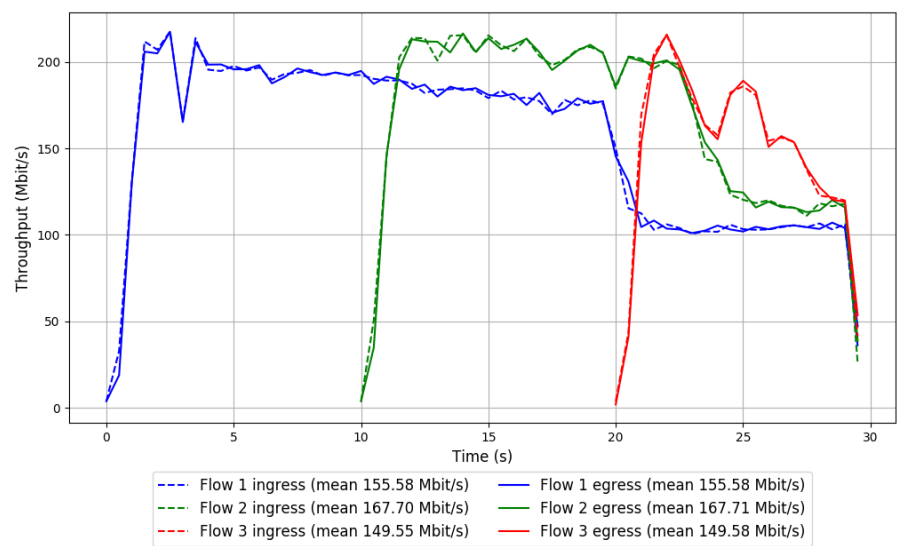
```
Run 7: Statistics of Indigo-calib

Start at: 2017-12-01 05:36:40
End at: 2017-12-01 05:37:10

# Below is generated by plot.py at 2017-12-01 08:28:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 315.29 Mbit/s
95th percentile per-packet one-way delay: 53.788 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 155.58 Mbit/s
95th percentile per-packet one-way delay: 53.571 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 167.71 Mbit/s
95th percentile per-packet one-way delay: 53.909 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 149.58 Mbit/s
95th percentile per-packet one-way delay: 54.170 ms
Loss rate: 0.00%
```



Run 7: Report of Indigo-calib — Data Link



Run 8: Statistics of Indigo-calib

Start at: 2017-12-01 05:48:53

End at: 2017-12-01 05:49:23

# Below is generated by plot.py at 2017-12-01 08:28:32

# Datalink statistics

-- Total of 3 flows:

Average throughput: 319.05 Mbit/s

95th percentile per-packet one-way delay: 51.185 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 168.53 Mbit/s

95th percentile per-packet one-way delay: 50.924 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 161.22 Mbit/s

95th percentile per-packet one-way delay: 51.270 ms

Loss rate: 0.00%

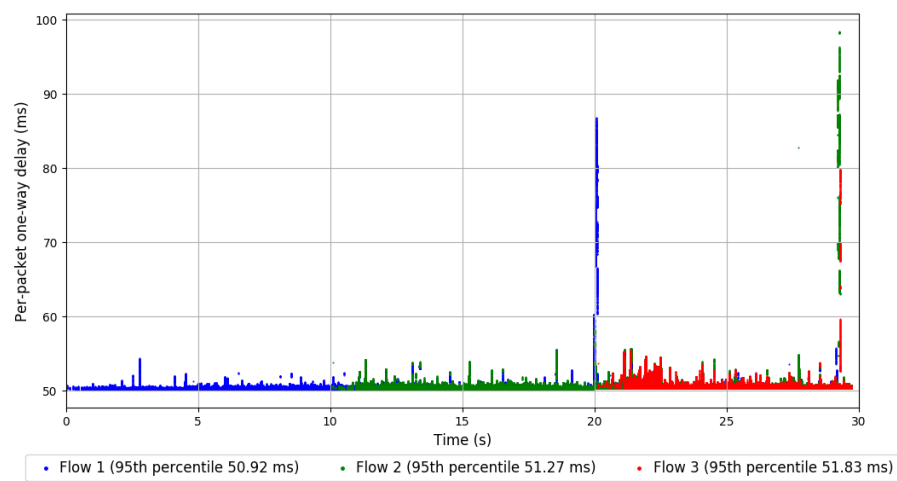
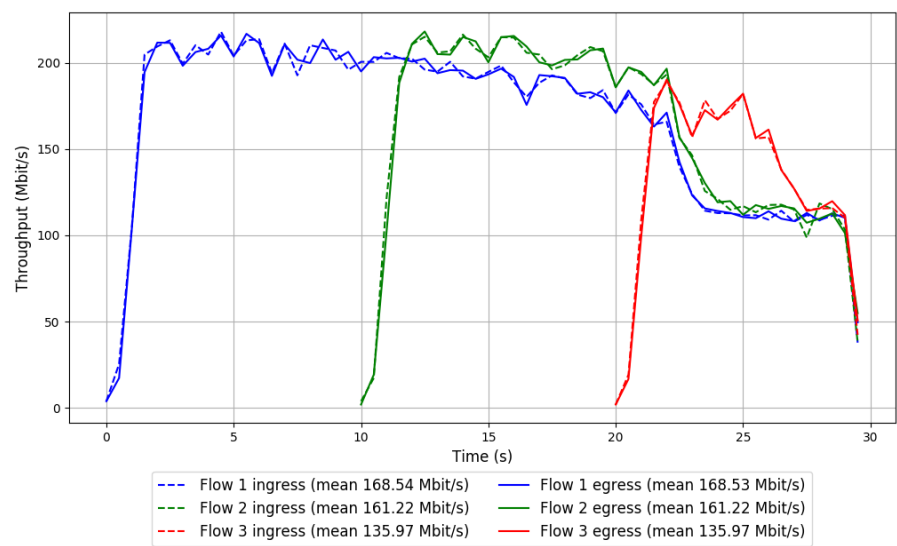
-- Flow 3:

Average throughput: 135.97 Mbit/s

95th percentile per-packet one-way delay: 51.829 ms

Loss rate: 0.00%

Run 8: Report of Indigo-calib — Data Link

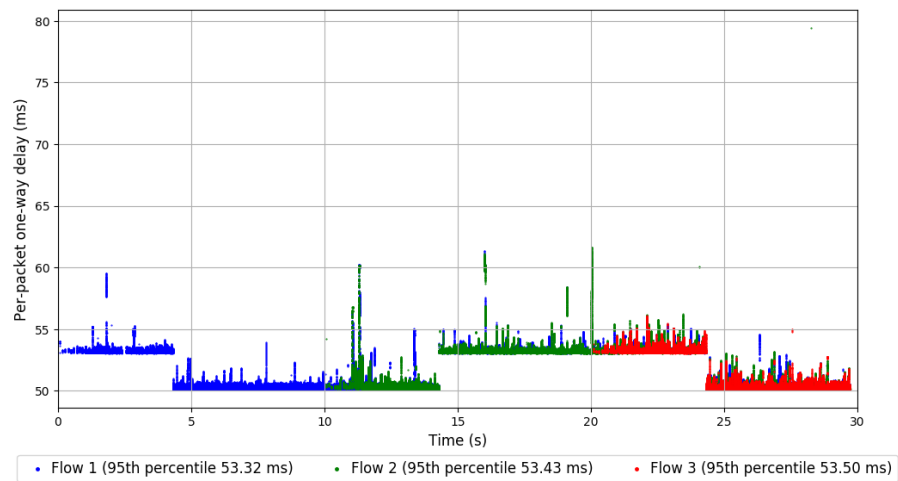
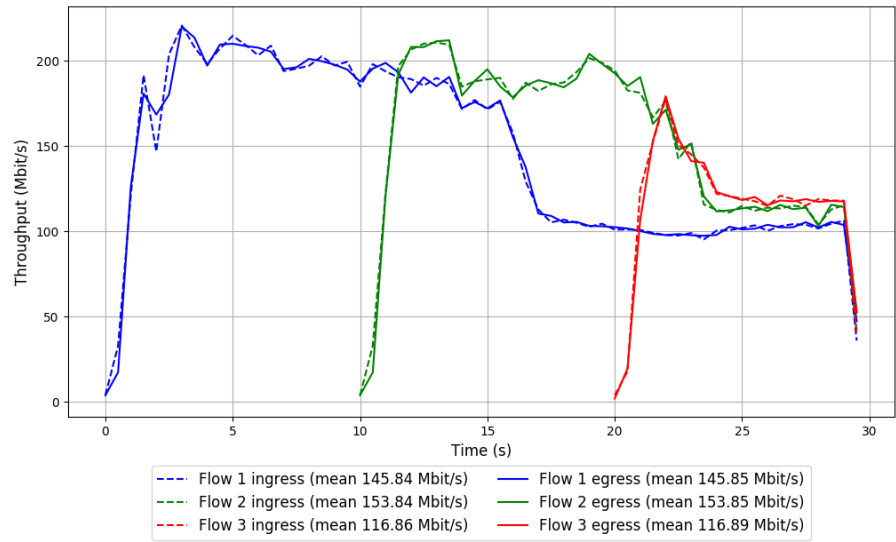


```
Run 9: Statistics of Indigo-calib

Start at: 2017-12-01 06:00:39
End at: 2017-12-01 06:01:09

# Below is generated by plot.py at 2017-12-01 08:28:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 285.80 Mbit/s
95th percentile per-packet one-way delay: 53.380 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 145.85 Mbit/s
95th percentile per-packet one-way delay: 53.322 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 153.85 Mbit/s
95th percentile per-packet one-way delay: 53.433 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 116.89 Mbit/s
95th percentile per-packet one-way delay: 53.498 ms
Loss rate: 0.00%
```

## Run 9: Report of Indigo-calib — Data Link



Run 10: Statistics of Indigo-calib

Start at: 2017-12-01 06:12:50

End at: 2017-12-01 06:13:20

# Below is generated by plot.py at 2017-12-01 08:28:34

# Datalink statistics

-- Total of 3 flows:

Average throughput: 298.92 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 147.60 Mbit/s

95th percentile per-packet one-way delay: 53.230 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 152.53 Mbit/s

95th percentile per-packet one-way delay: 53.386 ms

Loss rate: 0.00%

-- Flow 3:

Average throughput: 154.32 Mbit/s

95th percentile per-packet one-way delay: 53.334 ms

Loss rate: 0.01%

Run 10: Report of Indigo-calib — Data Link

