

## Pantheon Report

Generated at 2018-02-05 01:09:06 (UTC).

Data path: AWS Brazil 1 Ethernet (*local*) → Brazil Ethernet (*remote*).

Repeated the test of 17 congestion control schemes 10 times.

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

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

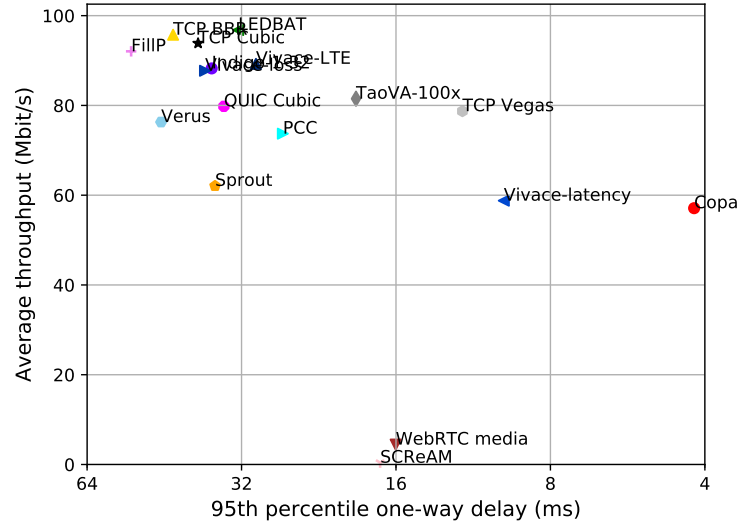
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo\_fast**).

NTP offsets were measured against **gps.ntp.br** and have been applied to correct the timestamps in logs.

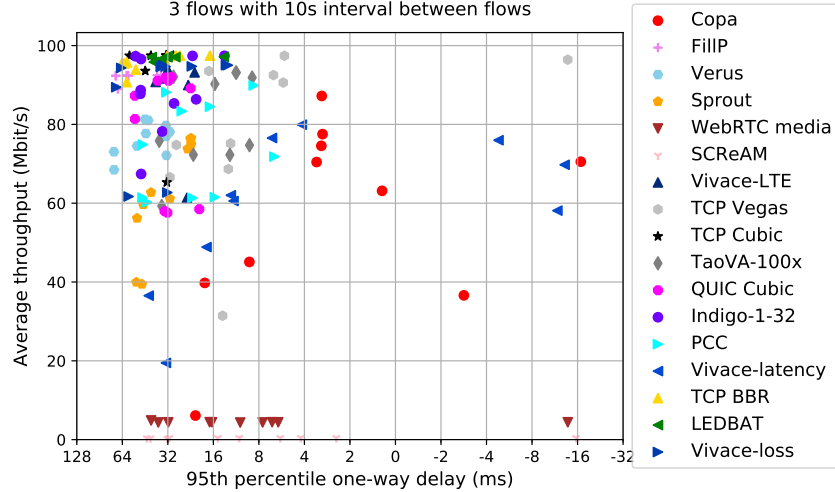
Git summary:

```
branch: master @ 70217998b3c9a7166a95460a70c0854d1326e100
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ fb9c9ab842e5614ad52911a76fb9bd1c1b0dca86
third_party/genericCC @ 80b516c448f795fd6e9675f7177b69c622f07da8
third_party/indigo @ a9b2060d39e4da2e8987e893e3eca2a6c7cd0ab9
third_party/indigo-1-layer-128-unit @ 3ae9e4ef4230db7484501f82ce8b377695f2f66d
third_party/indigo-1-layer-32-unit @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/indigo-1-layer-32-unit-no-calib @ 1f3a7f75b41135ed5b540c0fd3505939528e2a5f
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ fb1053193c2861da659ba9013db26744ccfcf993
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 @ f1a14bffe749737437f61b1eae30b267cde681
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/vivace @ 7a4ba531e75b4a6f66f5c4580192120401784ce3
third_party/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

test from AWS Brazil 1 Ethernet to Brazil Ethernet, 10 runs of 30s each per scheme  
3 flows with 10s interval between flows (mean of all runs by scheme)



test from AWS Brazil 1 Ethernet to Brazil 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     | 59.93                  | 33.26  | 41.22  | 34.91                     | 31.67  | 40.01  | 1.45               | 0.66   | 1.42   |
| TCP Cubic      | 10     | 60.57                  | 36.29  | 27.45  | 39.38                     | 44.07  | 34.55  | 0.89               | 1.09   | 0.94   |
| LEDBAT         | 10     | 64.44                  | 36.94  | 23.49  | 30.63                     | 35.22  | 41.17  | 0.04               | 1.10   | 1.41   |
| PCC            | 10     | 42.54                  | 42.00  | 9.90   | 24.03                     | 23.28  | 35.30  | 1.06               | 0.20   | 3.31   |
| QUIC Cubic     | 10     | 43.58                  | 39.55  | 30.33  | 41.67                     | 37.49  | 33.60  | 2.50               | 1.22   | 0.81   |
| SCReAM         | 10     | 0.21                   | 0.19   | 0.21   | 5.60                      | 13.02  | 5.06   | 1.08               | 2.15   | 1.46   |
| WebRTC media   | 10     | 2.37                   | 1.52   | 0.55   | 8.33                      | 7.14   | 11.82  | 0.01               | 0.03   | 0.06   |
| Sprout         | 10     | 29.25                  | 32.86  | 33.18  | 31.29                     | 26.05  | 23.32  | 1.63               | 1.67   | 1.65   |
| TaoVA-100x     | 10     | 45.04                  | 39.70  | 30.22  | 14.85                     | 16.39  | 17.22  | 0.06               | 0.87   | 1.07   |
| TCP Vegas      | 10     | 44.94                  | 34.46  | 32.60  | 10.55                     | 10.89  | 10.91  | 0.04               | 0.73   | 0.01   |
| Verus          | 10     | 43.55                  | 34.96  | 29.61  | 36.47                     | 41.26  | 38.17  | 18.56              | 28.52  | 35.04  |
| Copa           | 10     | 28.17                  | 34.01  | 18.94  | 8.76                      | 5.50   | 5.39   | 0.01               | 0.02   | 0.01   |
| FillP          | 10     | 53.84                  | 38.26  | 38.55  | 39.60                     | 46.16  | 38.73  | 11.58              | 20.44  | 25.81  |
| Indigo-1-32    | 10     | 41.08                  | 50.62  | 41.90  | 20.14                     | 22.44  | 24.42  | 1.85               | 2.43   | 1.83   |
| Vivace-latency | 10     | 28.05                  | 36.51  | 19.57  | 10.90                     | 3.45   | 5.80   | 0.03               | 0.81   | 0.03   |
| Vivace-loss    | 10     | 55.86                  | 38.69  | 18.61  | 43.30                     | 31.21  | 32.20  | 6.22               | 2.83   | 2.66   |
| Vivace-LTE     | 10     | 61.55                  | 27.78  | 28.02  | 33.21                     | 43.80  | 28.77  | 1.32               | 3.70   | 0.90   |

Run 1: Statistics of TCP BBR

Start at: 2018-02-04 21:06:57

End at: 2018-02-04 21:07:27

Local clock offset: 0.078 ms

Remote clock offset: 2.243 ms

# Below is generated by plot.py at 2018-02-05 00:43:19

# Datalink statistics

-- Total of 3 flows:

Average throughput: 97.46 Mbit/s

95th percentile per-packet one-way delay: 26.616 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 65.90 Mbit/s

95th percentile per-packet one-way delay: 26.187 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 31.97 Mbit/s

95th percentile per-packet one-way delay: 26.592 ms

Loss rate: 0.03%

-- Flow 3:

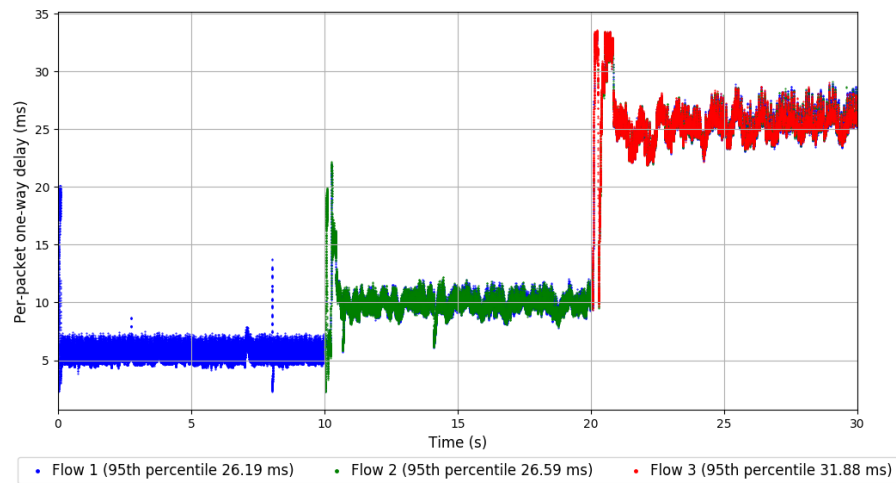
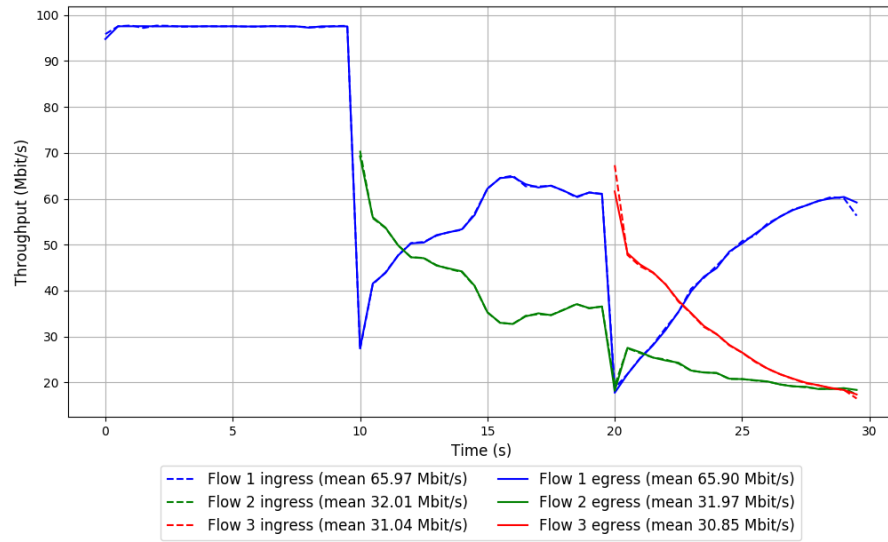
Average throughput: 30.85 Mbit/s

95th percentile per-packet one-way delay: 31.880 ms

Loss rate: 0.46%



# Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-02-04 21:27:34

End at: 2018-02-04 21:28:04

Local clock offset: 0.053 ms

Remote clock offset: 2.106 ms

# Below is generated by plot.py at 2018-02-05 00:43:20

# Datalink statistics

-- Total of 3 flows:

Average throughput: 97.46 Mbit/s

95th percentile per-packet one-way delay: 16.856 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 67.76 Mbit/s

95th percentile per-packet one-way delay: 16.817 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 36.75 Mbit/s

95th percentile per-packet one-way delay: 16.146 ms

Loss rate: 0.00%

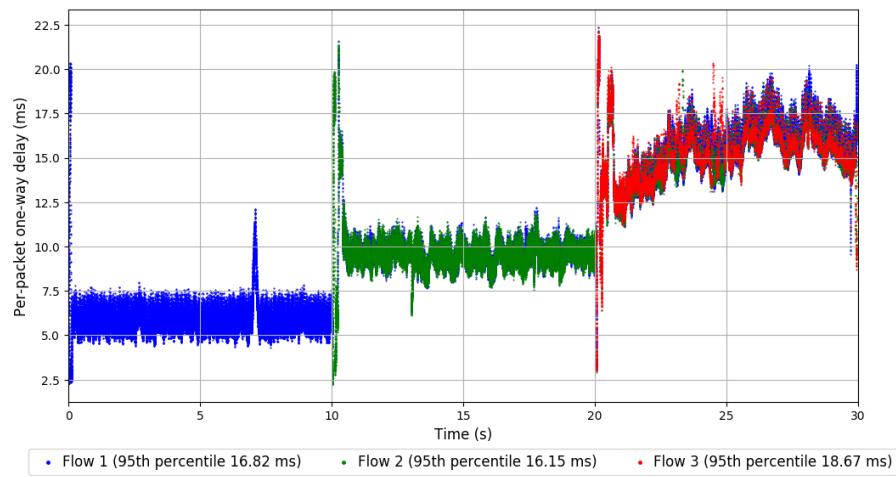
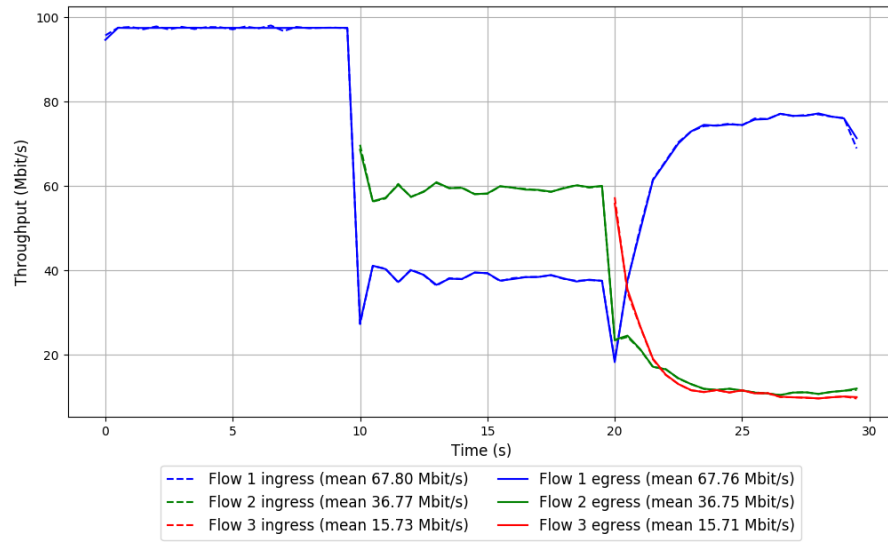
-- Flow 3:

Average throughput: 15.71 Mbit/s

95th percentile per-packet one-way delay: 18.669 ms

Loss rate: 0.00%

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



Run 3: Statistics of TCP BBR

Start at: 2018-02-04 21:48:02

End at: 2018-02-04 21:48:32

Local clock offset: 0.001 ms

Remote clock offset: 2.061 ms

# Below is generated by plot.py at 2018-02-05 00:43:20

# Datalink statistics

-- Total of 3 flows:

Average throughput: 97.46 Mbit/s

95th percentile per-packet one-way delay: 28.286 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 67.80 Mbit/s

95th percentile per-packet one-way delay: 27.878 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 31.65 Mbit/s

95th percentile per-packet one-way delay: 27.241 ms

Loss rate: 0.04%

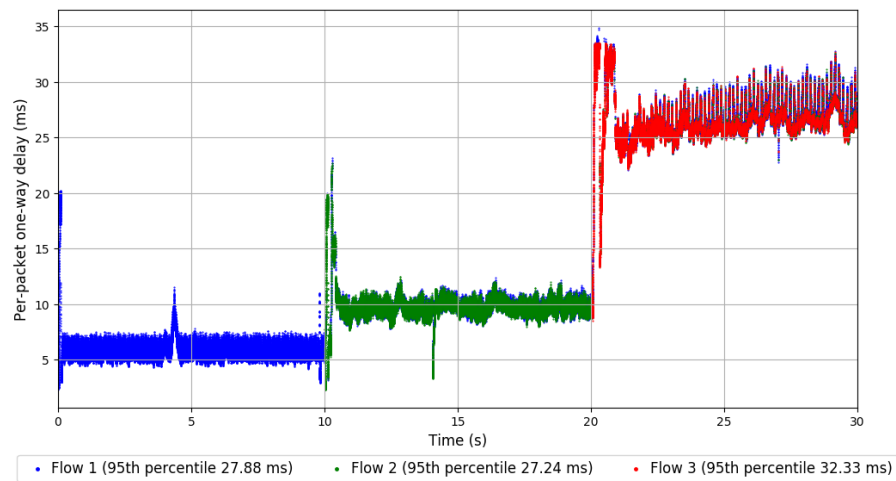
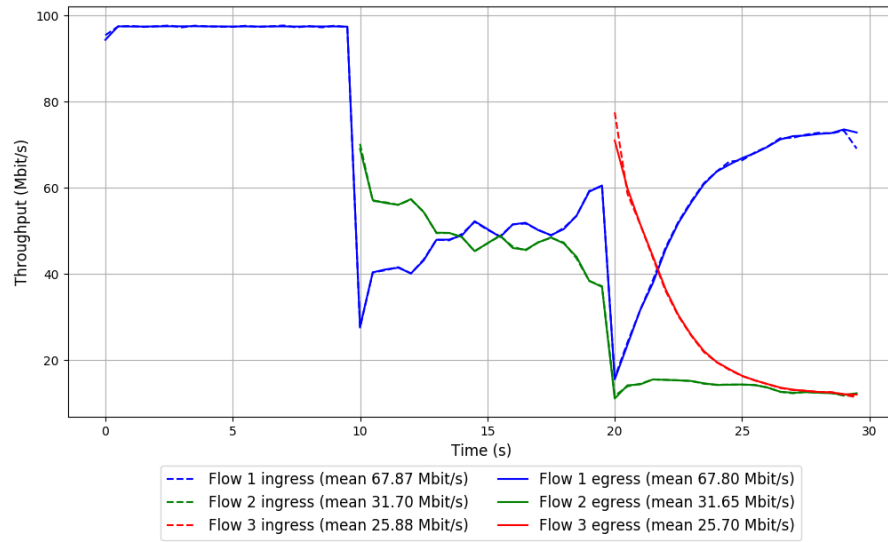
-- Flow 3:

Average throughput: 25.70 Mbit/s

95th percentile per-packet one-way delay: 32.327 ms

Loss rate: 0.53%

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



Run 4: Statistics of TCP BBR

Start at: 2018-02-04 22:08:25

End at: 2018-02-04 22:08:55

Local clock offset: 0.048 ms

Remote clock offset: 3.117 ms

# Below is generated by plot.py at 2018-02-05 00:43:20

# Datalink statistics

-- Total of 3 flows:

Average throughput: 93.91 Mbit/s

95th percentile per-packet one-way delay: 52.102 ms

Loss rate: 0.45%

-- Flow 1:

Average throughput: 54.64 Mbit/s

95th percentile per-packet one-way delay: 25.791 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 21.59 Mbit/s

95th percentile per-packet one-way delay: 21.167 ms

Loss rate: 0.21%

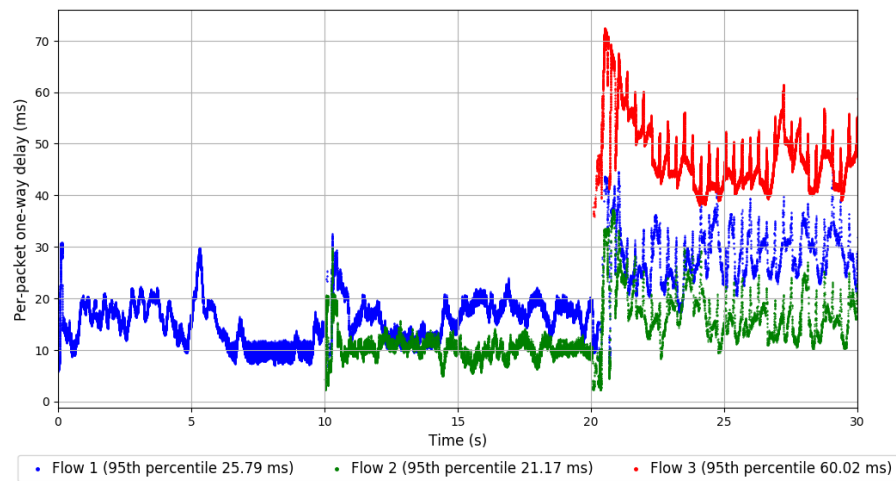
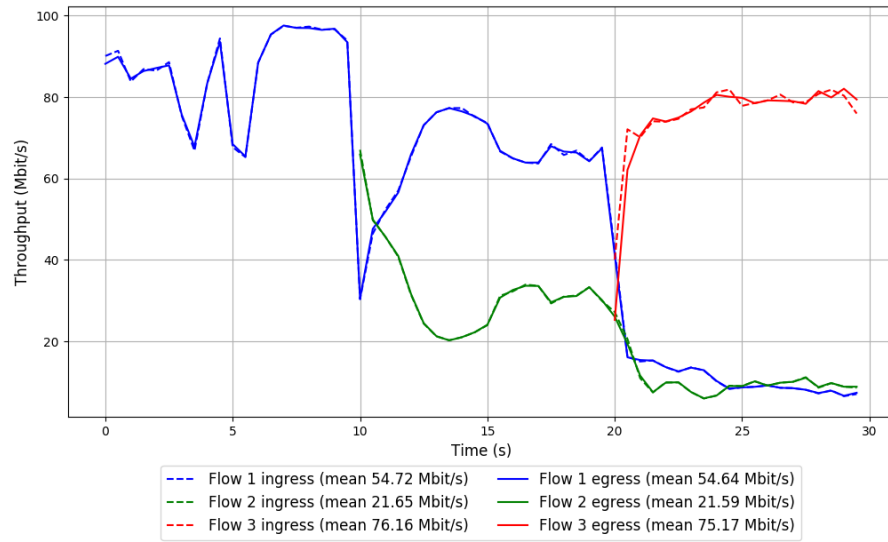
-- Flow 3:

Average throughput: 75.17 Mbit/s

95th percentile per-packet one-way delay: 60.020 ms

Loss rate: 1.37%

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



Run 5: Statistics of TCP BBR

Start at: 2018-02-04 22:28:58

End at: 2018-02-04 22:29:28

Local clock offset: 0.032 ms

Remote clock offset: 3.212 ms

# Below is generated by plot.py at 2018-02-05 00:43:20

# Datalink statistics

-- Total of 3 flows:

Average throughput: 90.72 Mbit/s

95th percentile per-packet one-way delay: 59.768 ms

Loss rate: 5.99%

-- Flow 1:

Average throughput: 49.42 Mbit/s

95th percentile per-packet one-way delay: 62.649 ms

Loss rate: 10.35%

-- Flow 2:

Average throughput: 44.55 Mbit/s

95th percentile per-packet one-way delay: 20.537 ms

Loss rate: 0.12%

-- Flow 3:

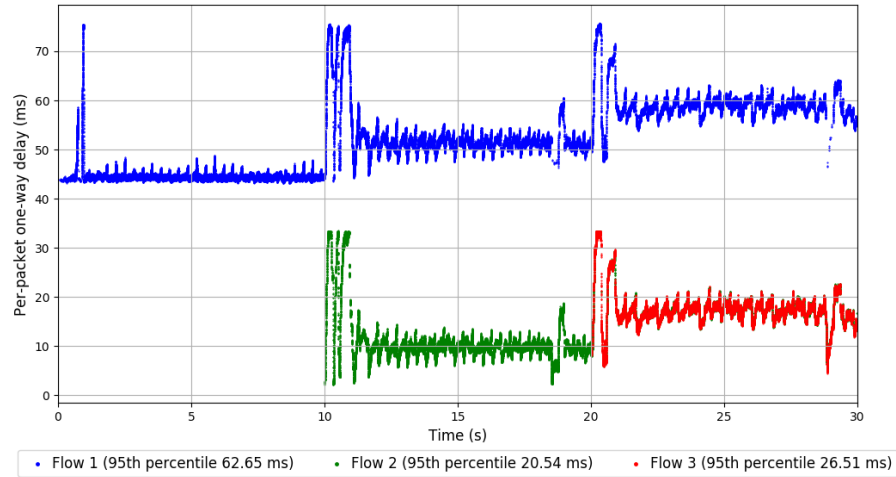
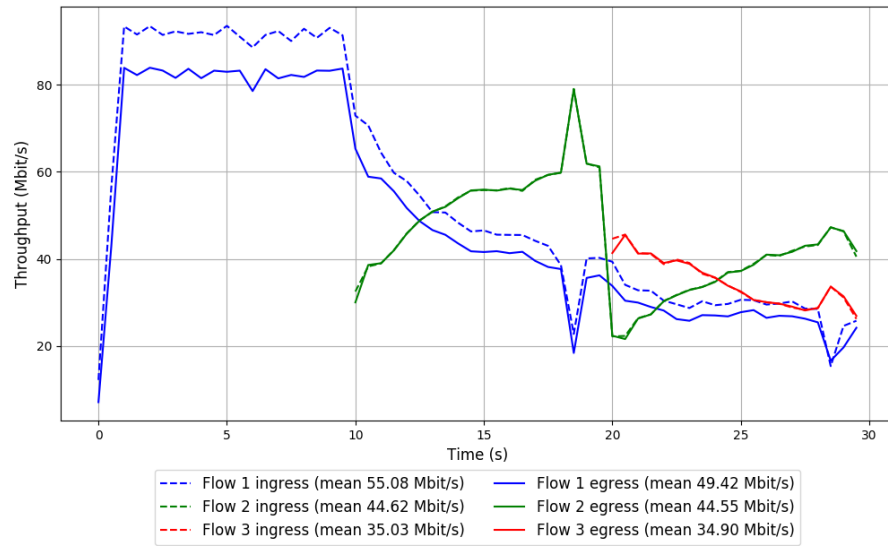
Average throughput: 34.90 Mbit/s

95th percentile per-packet one-way delay: 26.508 ms

Loss rate: 0.30%



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



Run 6: Statistics of TCP BBR

Start at: 2018-02-04 22:49:38

End at: 2018-02-04 22:50:08

Local clock offset: -0.006 ms

Remote clock offset: 2.847 ms

# Below is generated by plot.py at 2018-02-05 00:43:20

# Datalink statistics

-- Total of 3 flows:

Average throughput: 96.39 Mbit/s

95th percentile per-packet one-way delay: 33.477 ms

Loss rate: 0.20%

-- Flow 1:

Average throughput: 56.99 Mbit/s

95th percentile per-packet one-way delay: 35.732 ms

Loss rate: 0.17%

-- Flow 2:

Average throughput: 21.98 Mbit/s

95th percentile per-packet one-way delay: 28.965 ms

Loss rate: 0.23%

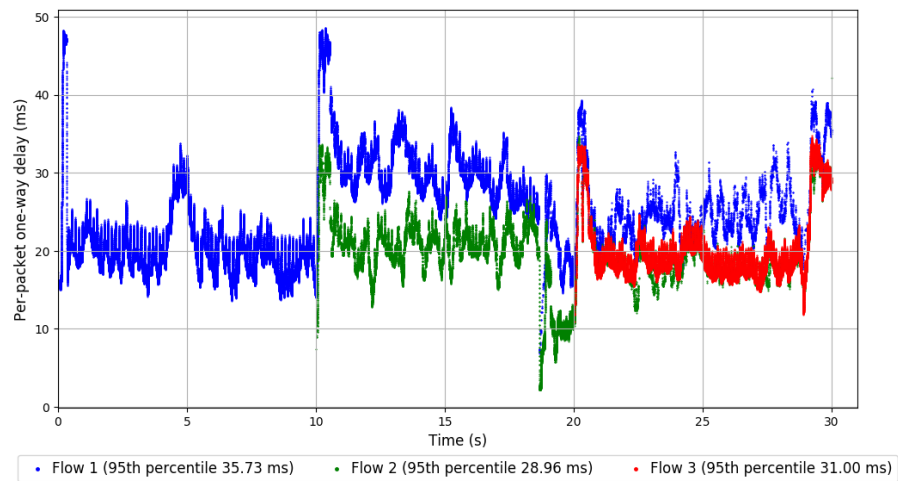
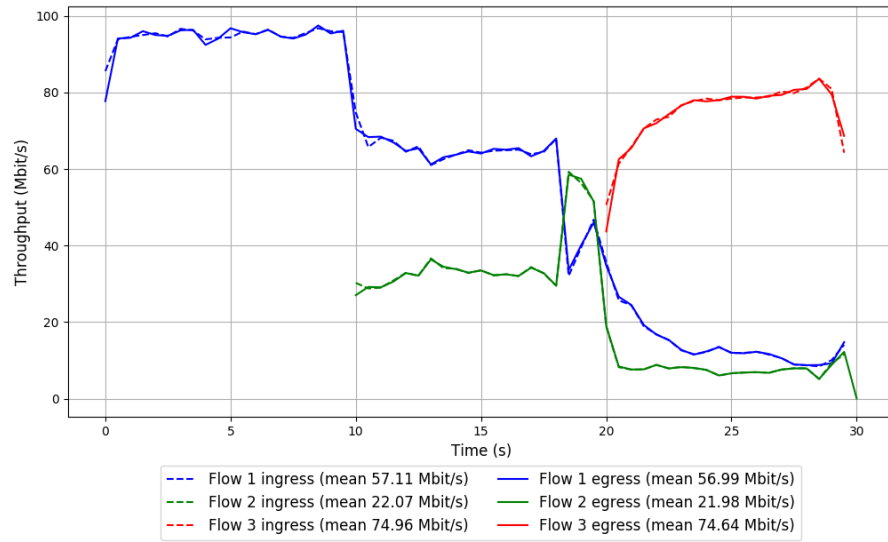
-- Flow 3:

Average throughput: 74.64 Mbit/s

95th percentile per-packet one-way delay: 31.004 ms

Loss rate: 0.25%

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



Run 7: Statistics of TCP BBR

Start at: 2018-02-04 23:10:10

End at: 2018-02-04 23:10:40

Local clock offset: -0.067 ms

Remote clock offset: 2.676 ms

# Below is generated by plot.py at 2018-02-05 00:43:20

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.68 Mbit/s

95th percentile per-packet one-way delay: 64.042 ms

Loss rate: 1.50%

-- Flow 1:

Average throughput: 71.94 Mbit/s

95th percentile per-packet one-way delay: 64.736 ms

Loss rate: 1.53%

-- Flow 2:

Average throughput: 31.91 Mbit/s

95th percentile per-packet one-way delay: 52.520 ms

Loss rate: 1.22%

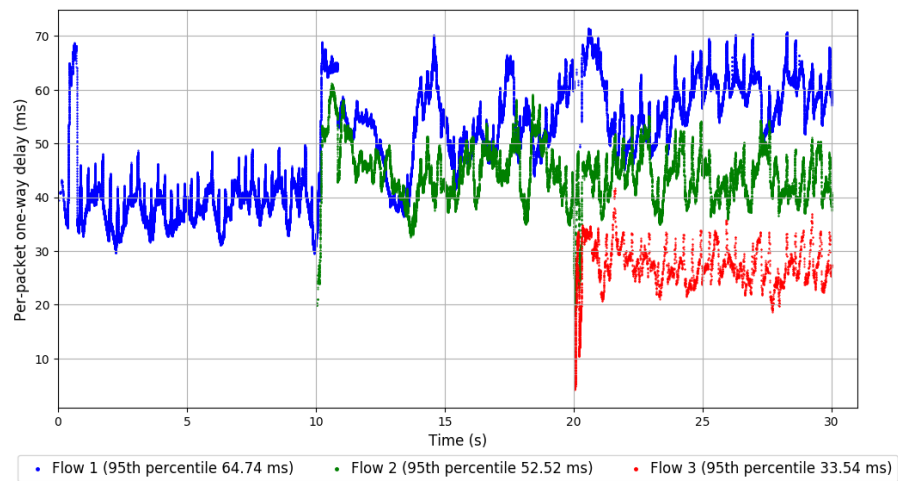
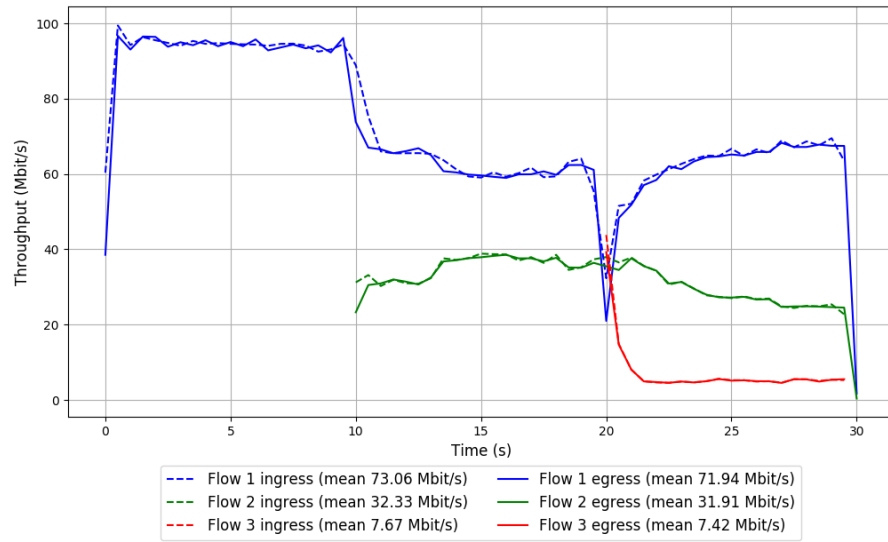
-- Flow 3:

Average throughput: 7.42 Mbit/s

95th percentile per-packet one-way delay: 33.542 ms

Loss rate: 3.14%

# Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-02-04 23:30:51

End at: 2018-02-04 23:31:21

Local clock offset: -0.016 ms

Remote clock offset: 2.645 ms

# Below is generated by plot.py at 2018-02-05 00:43:20

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.43 Mbit/s

95th percentile per-packet one-way delay: 61.891 ms

Loss rate: 1.65%

-- Flow 1:

Average throughput: 53.88 Mbit/s

95th percentile per-packet one-way delay: 50.388 ms

Loss rate: 0.81%

-- Flow 2:

Average throughput: 45.23 Mbit/s

95th percentile per-packet one-way delay: 62.980 ms

Loss rate: 2.42%

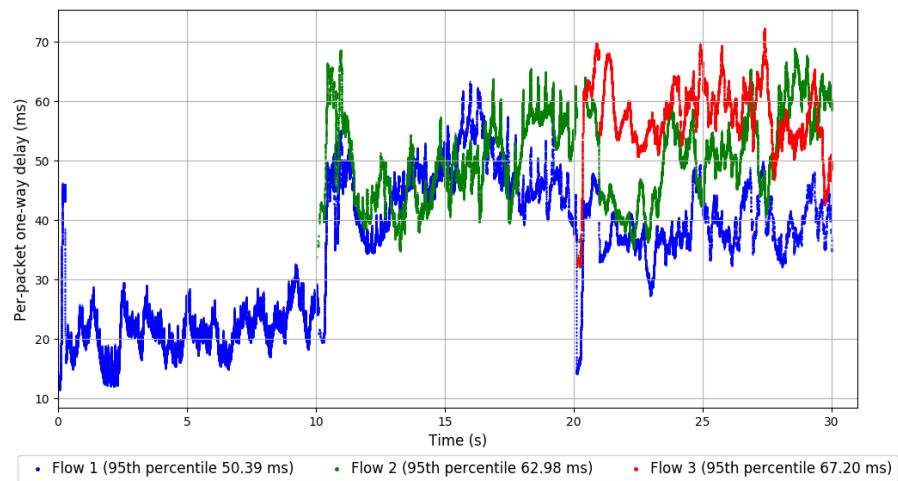
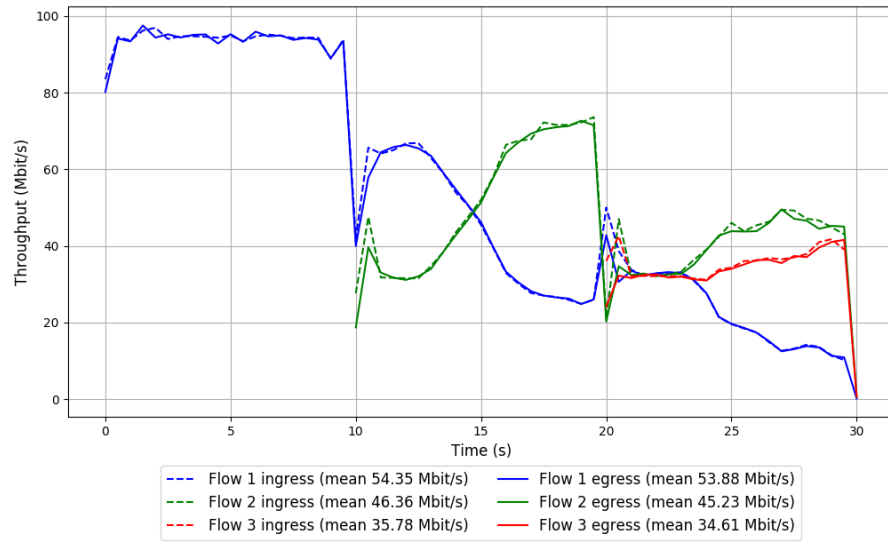
-- Flow 3:

Average throughput: 34.61 Mbit/s

95th percentile per-packet one-way delay: 67.202 ms

Loss rate: 3.54%

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



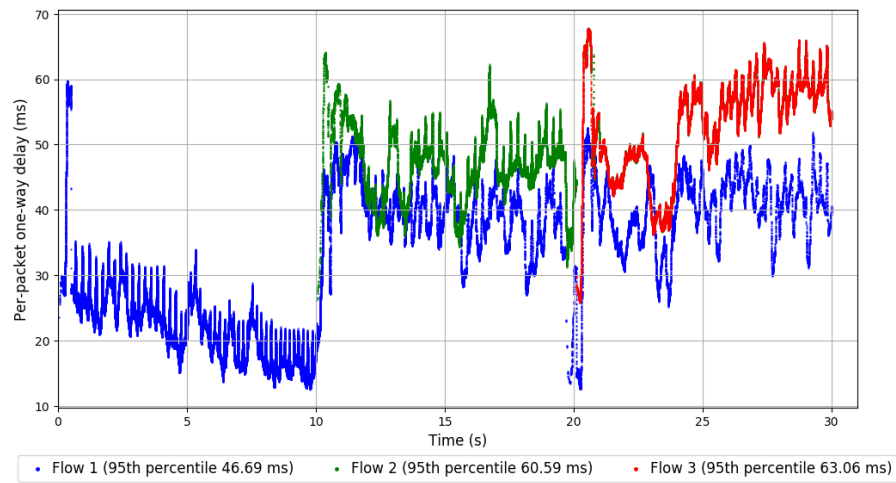
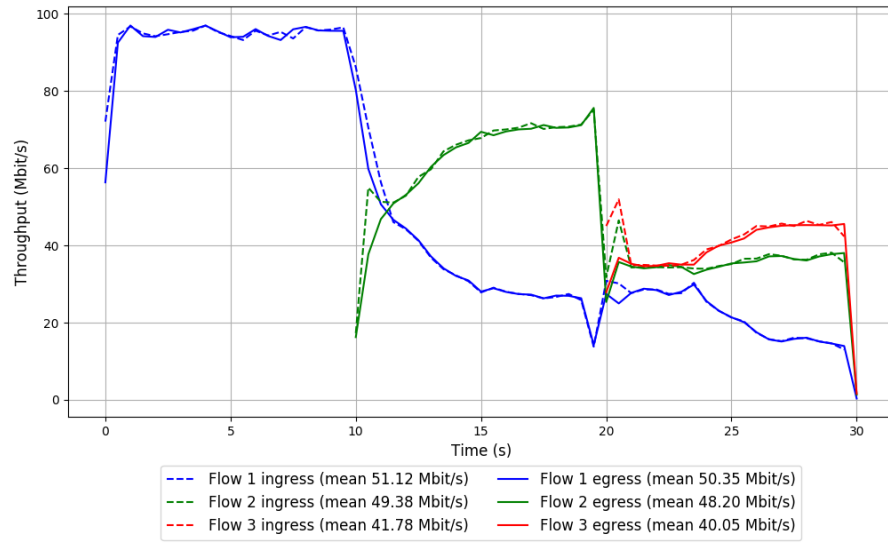
Run 9: Statistics of TCP BBR

Start at: 2018-02-04 23:51:39  
End at: 2018-02-04 23:52:09  
Local clock offset: -0.03 ms  
Remote clock offset: -2.775 ms

# Below is generated by plot.py at 2018-02-05 00:44:36  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.75 Mbit/s  
95th percentile per-packet one-way delay: 59.565 ms  
Loss rate: 2.11%  
-- Flow 1:  
Average throughput: 50.35 Mbit/s  
95th percentile per-packet one-way delay: 46.690 ms  
Loss rate: 1.45%  
-- Flow 2:  
Average throughput: 48.20 Mbit/s  
95th percentile per-packet one-way delay: 60.586 ms  
Loss rate: 2.29%  
-- Flow 3:  
Average throughput: 40.05 Mbit/s  
95th percentile per-packet one-way delay: 63.062 ms  
Loss rate: 4.11%



# Run 9: Report of TCP BBR — Data Link

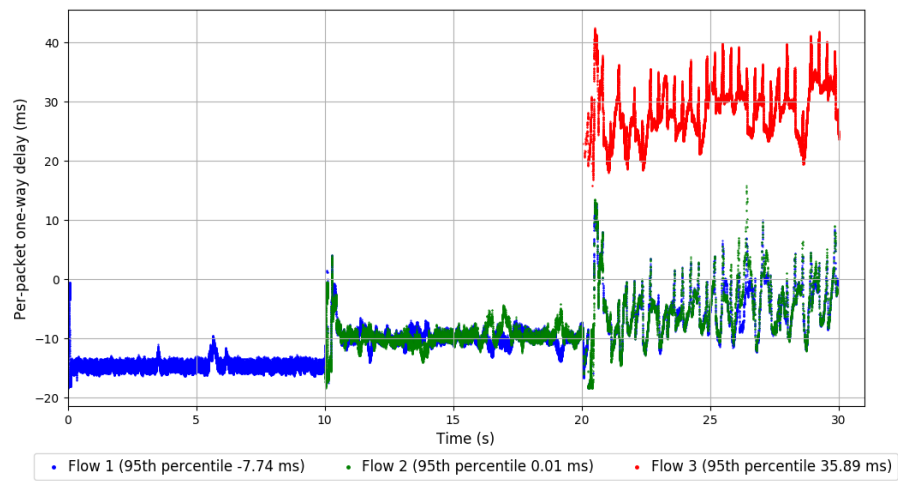
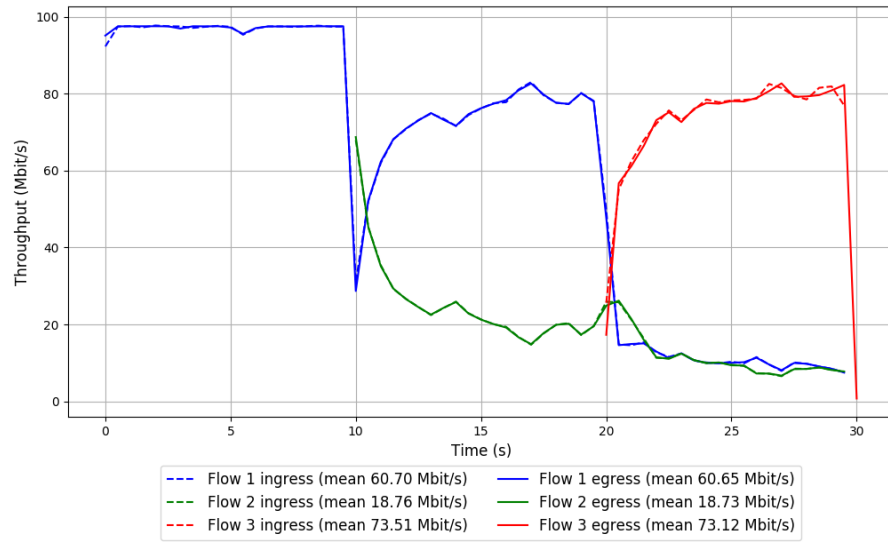


Run 10: Statistics of TCP BBR

Start at: 2018-02-05 00:12:29  
End at: 2018-02-05 00:12:59  
Local clock offset: -0.009 ms  
Remote clock offset: -18.48 ms

# Below is generated by plot.py at 2018-02-05 00:44:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.30 Mbit/s  
95th percentile per-packet one-way delay: 32.455 ms  
Loss rate: 0.16%  
-- Flow 1:  
Average throughput: 60.65 Mbit/s  
95th percentile per-packet one-way delay: -7.743 ms  
Loss rate: 0.02%  
-- Flow 2:  
Average throughput: 18.73 Mbit/s  
95th percentile per-packet one-way delay: 0.006 ms  
Loss rate: 0.08%  
-- Flow 3:  
Average throughput: 73.12 Mbit/s  
95th percentile per-packet one-way delay: 35.887 ms  
Loss rate: 0.53%

# Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-02-04 20:50:58

End at: 2018-02-04 20:51:28

Local clock offset: 0.045 ms

Remote clock offset: 2.374 ms

# Below is generated by plot.py at 2018-02-05 00:44:39

# Datalink statistics

-- Total of 3 flows:

Average throughput: 65.29 Mbit/s

95th percentile per-packet one-way delay: 32.510 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 0.61 Mbit/s

95th percentile per-packet one-way delay: 73.446 ms

Loss rate: 8.60%

-- Flow 2:

Average throughput: 84.16 Mbit/s

95th percentile per-packet one-way delay: 32.426 ms

Loss rate: 0.02%

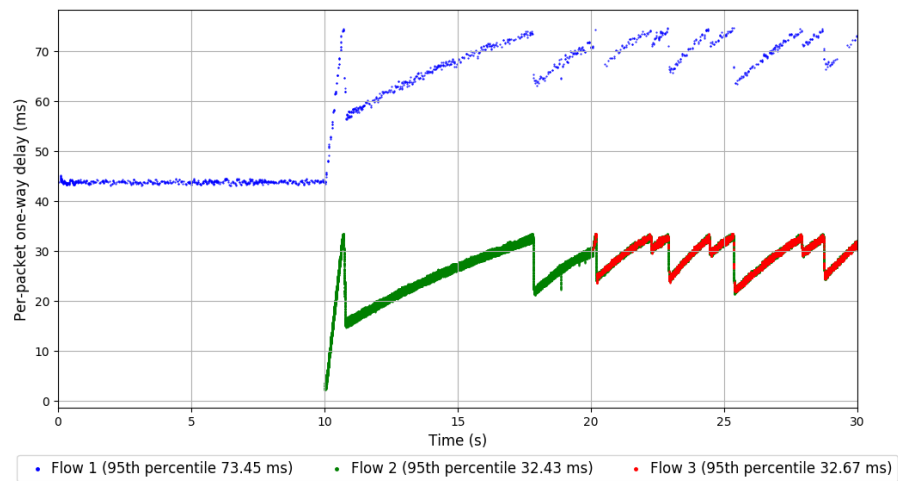
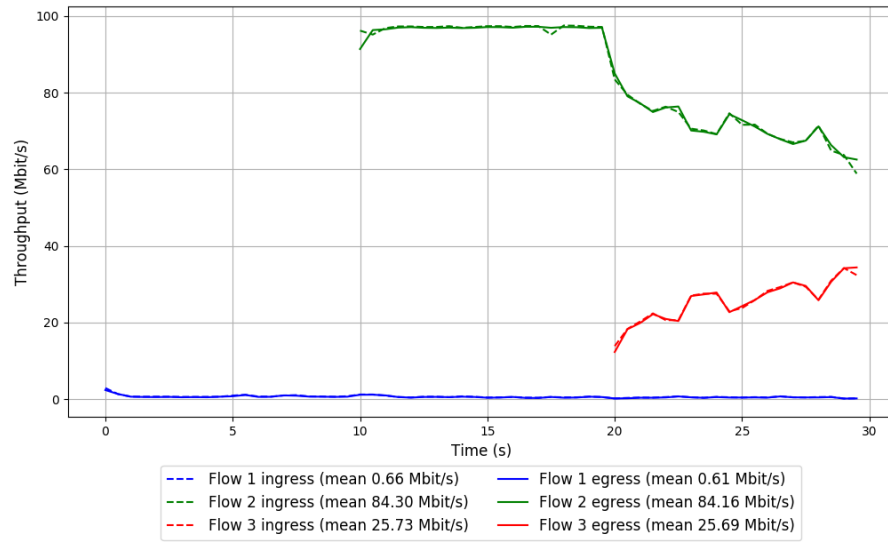
-- Flow 3:

Average throughput: 25.69 Mbit/s

95th percentile per-packet one-way delay: 32.673 ms

Loss rate: 0.14%

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



Run 2: Statistics of TCP Cubic

Start at: 2018-02-04 21:11:33

End at: 2018-02-04 21:12:03

Local clock offset: 0.06 ms

Remote clock offset: 2.216 ms

# Below is generated by plot.py at 2018-02-05 00:44:41

# Datalink statistics

-- Total of 3 flows:

Average throughput: 97.47 Mbit/s

95th percentile per-packet one-way delay: 32.751 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 65.24 Mbit/s

95th percentile per-packet one-way delay: 32.707 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 34.86 Mbit/s

95th percentile per-packet one-way delay: 32.919 ms

Loss rate: 0.08%

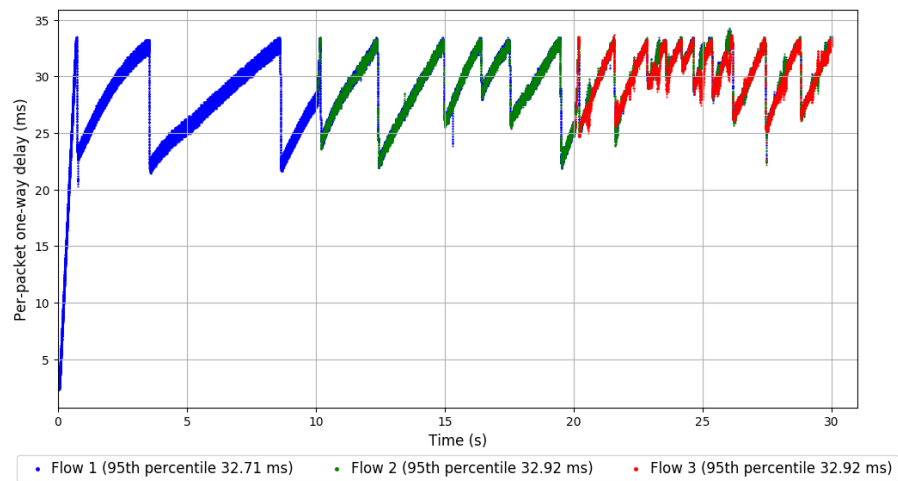
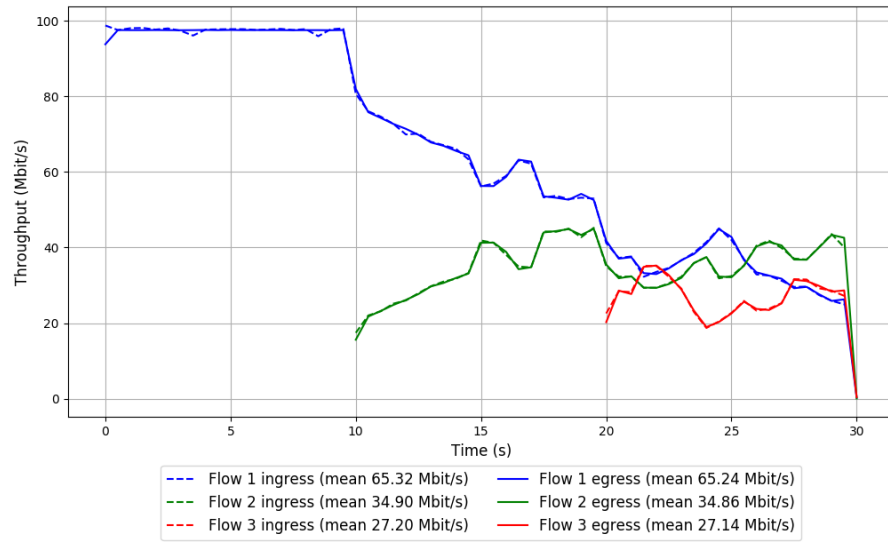
-- Flow 3:

Average throughput: 27.14 Mbit/s

95th percentile per-packet one-way delay: 32.919 ms

Loss rate: 0.15%

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



Run 3: Statistics of TCP Cubic

Start at: 2018-02-04 21:32:05

End at: 2018-02-04 21:32:35

Local clock offset: -0.015 ms

Remote clock offset: 2.14 ms

# Below is generated by plot.py at 2018-02-05 00:44:41

# Datalink statistics

-- Total of 3 flows:

Average throughput: 97.45 Mbit/s

95th percentile per-packet one-way delay: 32.658 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 87.57 Mbit/s

95th percentile per-packet one-way delay: 32.629 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 73.911 ms

Loss rate: 10.05%

-- Flow 3:

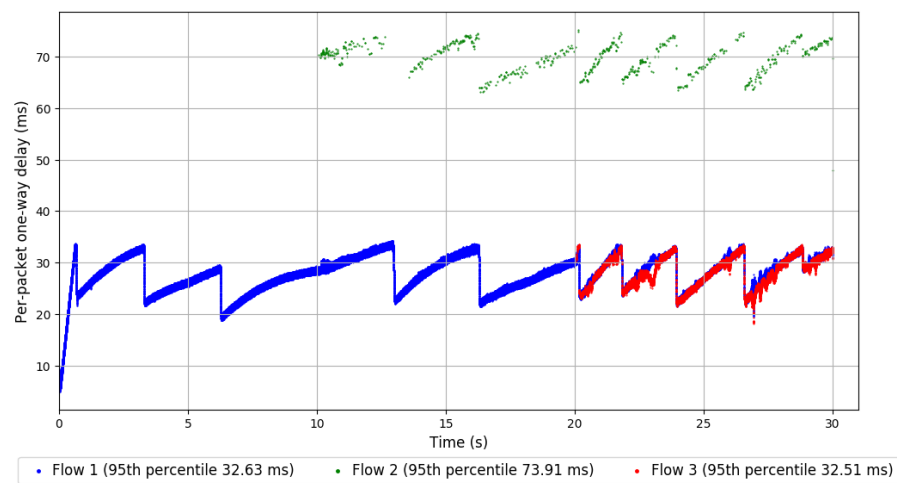
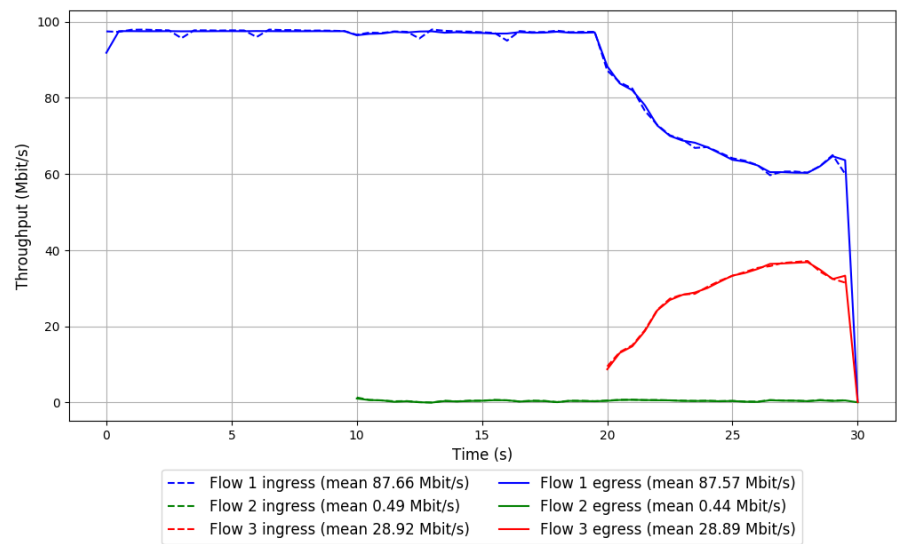
Average throughput: 28.89 Mbit/s

95th percentile per-packet one-way delay: 32.507 ms

Loss rate: 0.07%



Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-02-04 21:52:33

End at: 2018-02-04 21:53:03

Local clock offset: -0.041 ms

Remote clock offset: 2.285 ms

# Below is generated by plot.py at 2018-02-05 00:44:43

# Datalink statistics

-- Total of 3 flows:

Average throughput: 97.45 Mbit/s

95th percentile per-packet one-way delay: 32.882 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 63.85 Mbit/s

95th percentile per-packet one-way delay: 32.552 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 37.26 Mbit/s

95th percentile per-packet one-way delay: 33.711 ms

Loss rate: 0.09%

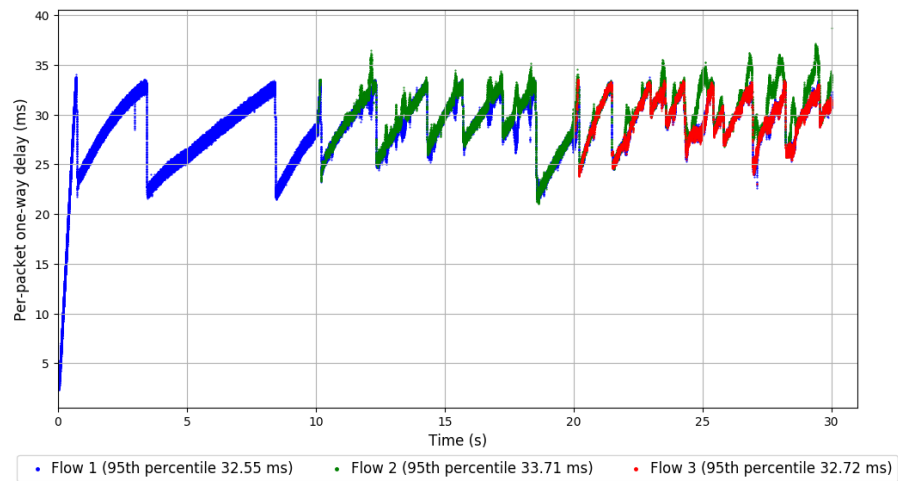
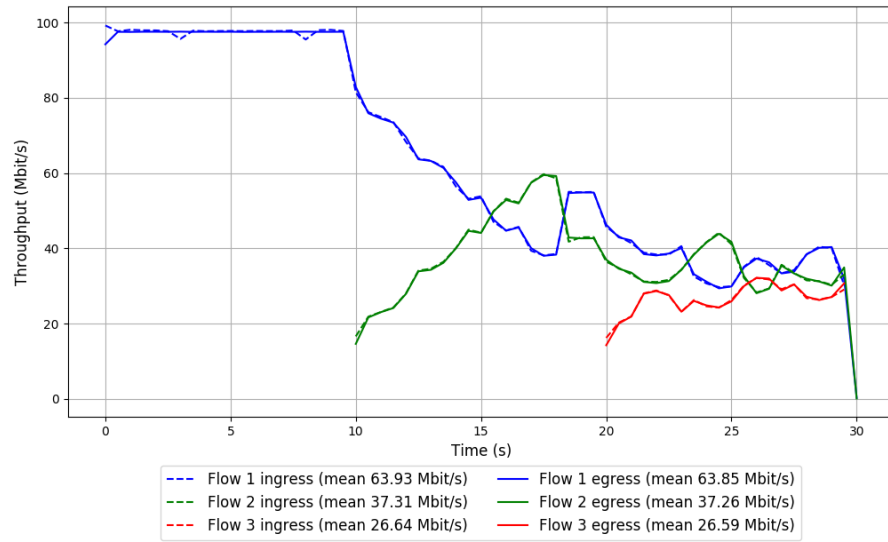
-- Flow 3:

Average throughput: 26.59 Mbit/s

95th percentile per-packet one-way delay: 32.719 ms

Loss rate: 0.17%

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



Run 5: Statistics of TCP Cubic

Start at: 2018-02-04 22:12:57

End at: 2018-02-04 22:13:27

Local clock offset: -0.029 ms

Remote clock offset: 3.141 ms

# Below is generated by plot.py at 2018-02-05 00:44:44

# Datalink statistics

-- Total of 3 flows:

Average throughput: 97.46 Mbit/s

95th percentile per-packet one-way delay: 32.733 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 66.79 Mbit/s

95th percentile per-packet one-way delay: 32.692 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 29.70 Mbit/s

95th percentile per-packet one-way delay: 32.760 ms

Loss rate: 0.10%

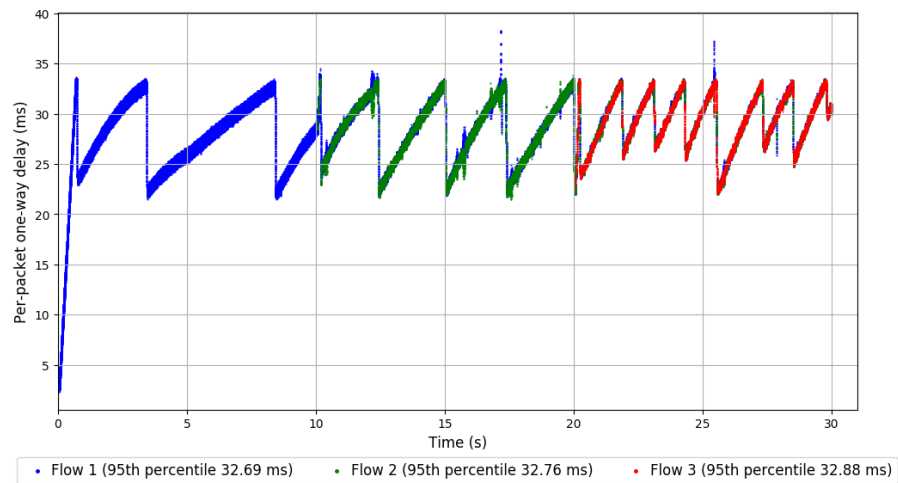
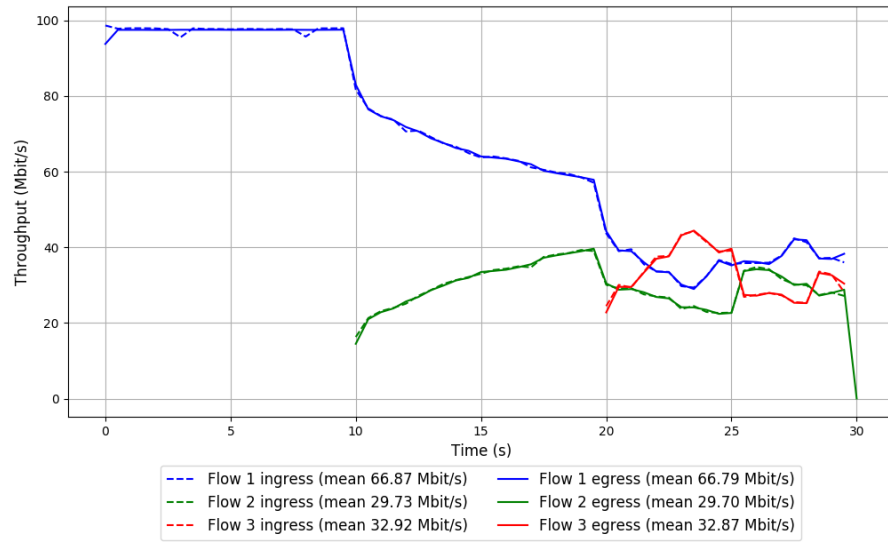
-- Flow 3:

Average throughput: 32.87 Mbit/s

95th percentile per-packet one-way delay: 32.884 ms

Loss rate: 0.07%

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



Run 6: Statistics of TCP Cubic

Start at: 2018-02-04 22:33:31

End at: 2018-02-04 22:34:01

Local clock offset: 0.028 ms

Remote clock offset: 3.175 ms

# Below is generated by plot.py at 2018-02-05 00:44:45

# Datalink statistics

-- Total of 3 flows:

Average throughput: 97.44 Mbit/s

95th percentile per-packet one-way delay: 57.398 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 77.08 Mbit/s

95th percentile per-packet one-way delay: 35.182 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 13.70 Mbit/s

95th percentile per-packet one-way delay: 68.159 ms

Loss rate: 0.28%

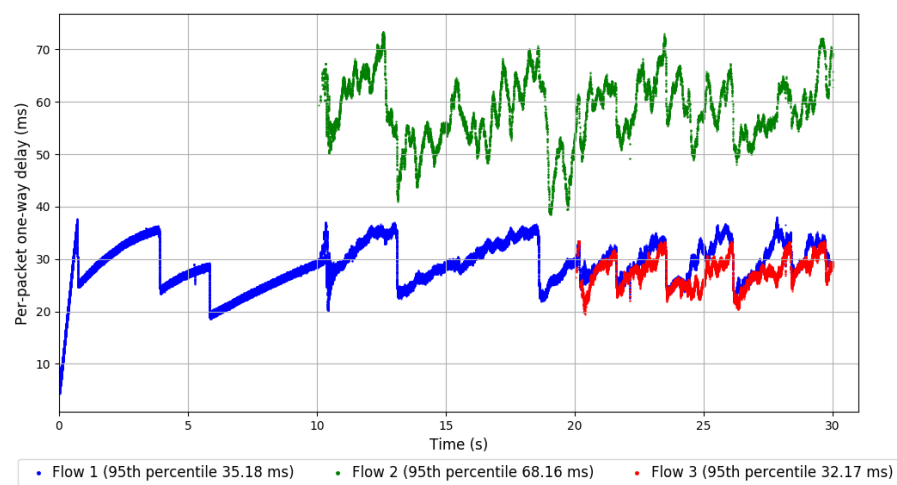
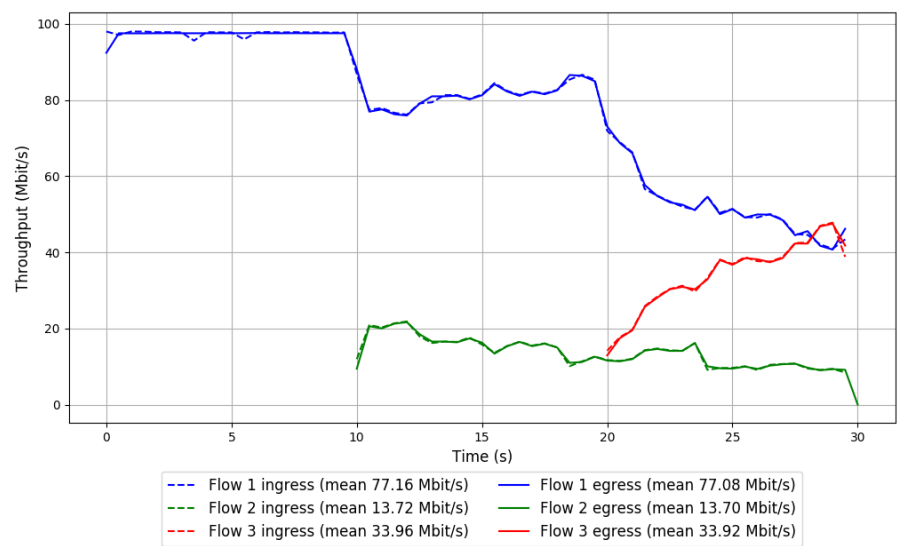
-- Flow 3:

Average throughput: 33.92 Mbit/s

95th percentile per-packet one-way delay: 32.174 ms

Loss rate: 0.08%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-02-04 22:54:07

End at: 2018-02-04 22:54:37

Local clock offset: -0.008 ms

Remote clock offset: 1.562 ms

# Below is generated by plot.py at 2018-02-05 00:45:25

# Datalink statistics

-- Total of 3 flows:

Average throughput: 97.46 Mbit/s

95th percentile per-packet one-way delay: 41.419 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 69.73 Mbit/s

95th percentile per-packet one-way delay: 31.416 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 28.34 Mbit/s

95th percentile per-packet one-way delay: 47.412 ms

Loss rate: 0.06%

-- Flow 3:

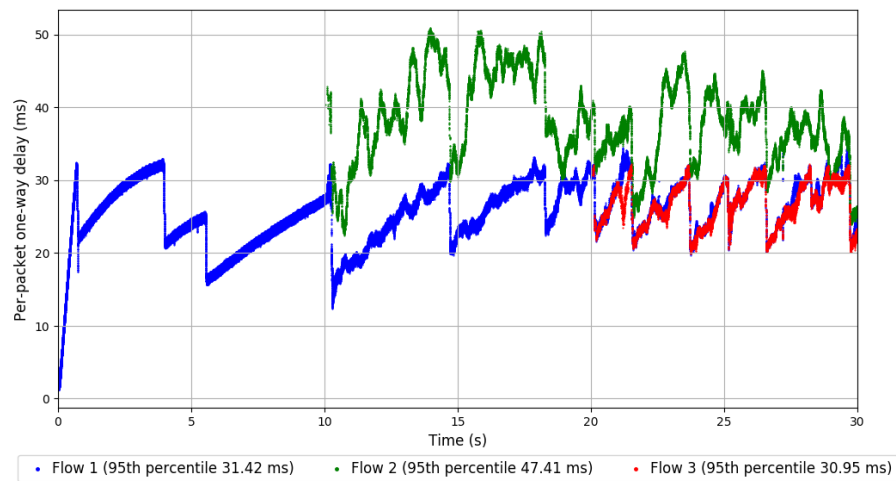
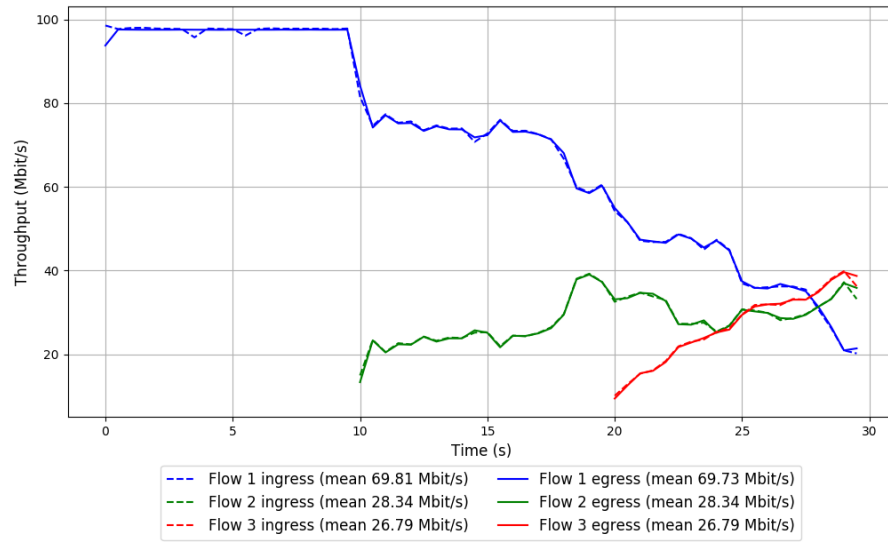
Average throughput: 26.79 Mbit/s

95th percentile per-packet one-way delay: 30.947 ms

Loss rate: 0.06%



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



Run 8: Statistics of TCP Cubic

Start at: 2018-02-04 23:14:41

End at: 2018-02-04 23:15:11

Local clock offset: -0.088 ms

Remote clock offset: 2.622 ms

# Below is generated by plot.py at 2018-02-05 00:46:03

# Datalink statistics

-- Total of 3 flows:

Average throughput: 97.39 Mbit/s

95th percentile per-packet one-way delay: 52.004 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 59.81 Mbit/s

95th percentile per-packet one-way delay: 53.944 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 37.88 Mbit/s

95th percentile per-packet one-way delay: 40.524 ms

Loss rate: 0.13%

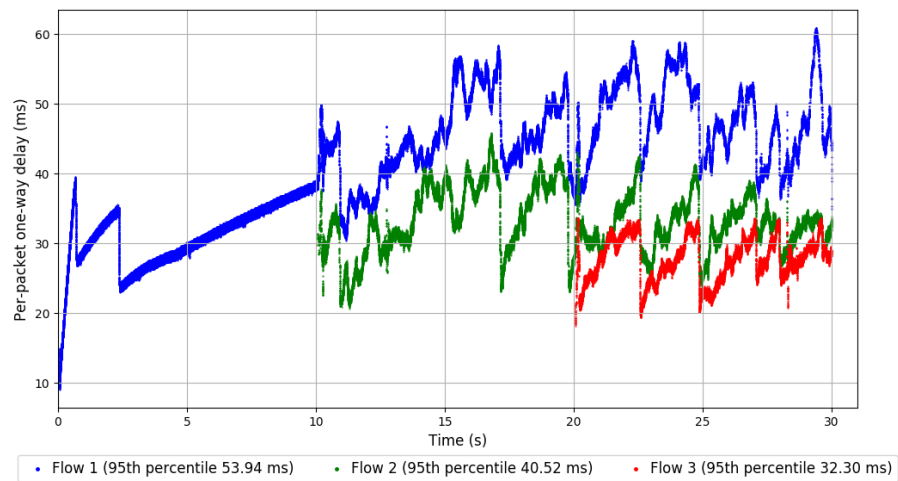
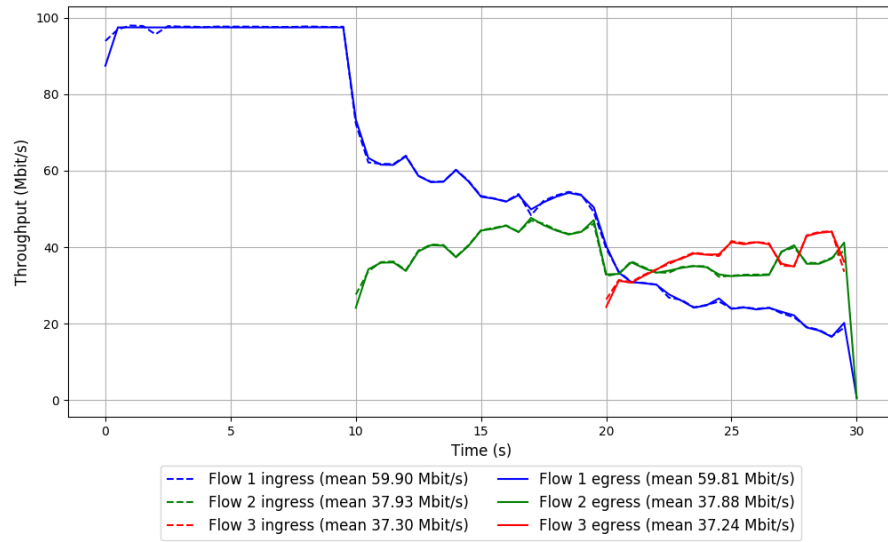
-- Flow 3:

Average throughput: 37.24 Mbit/s

95th percentile per-packet one-way delay: 32.304 ms

Loss rate: 0.08%

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

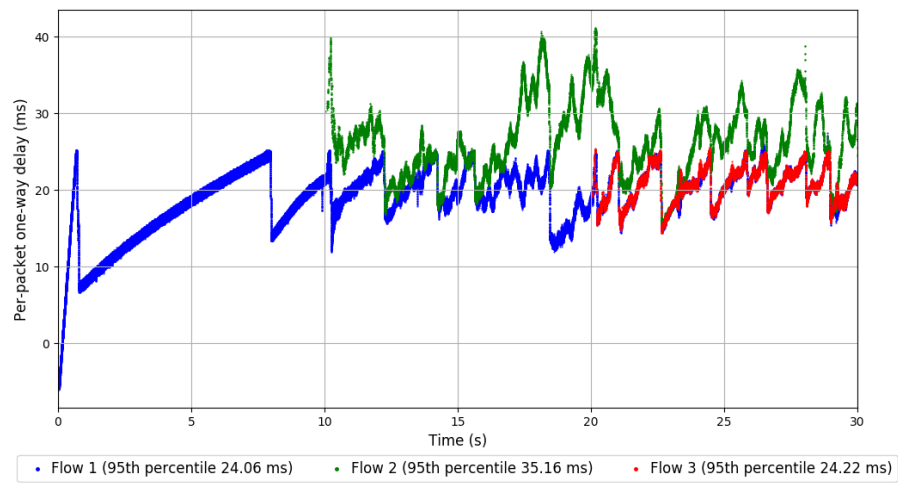
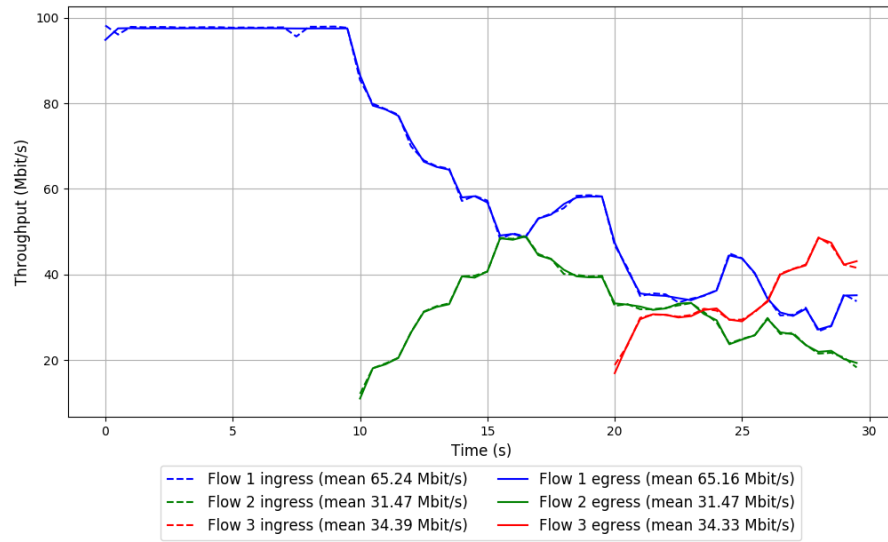


Run 9: Statistics of TCP Cubic

Start at: 2018-02-04 23:35:25  
End at: 2018-02-04 23:35:55  
Local clock offset: -0.004 ms  
Remote clock offset: -5.599 ms

# Below is generated by plot.py at 2018-02-05 00:46:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.47 Mbit/s  
95th percentile per-packet one-way delay: 29.421 ms  
Loss rate: 0.05%  
-- Flow 1:  
Average throughput: 65.16 Mbit/s  
95th percentile per-packet one-way delay: 24.061 ms  
Loss rate: 0.03%  
-- Flow 2:  
Average throughput: 31.47 Mbit/s  
95th percentile per-packet one-way delay: 35.161 ms  
Loss rate: 0.05%  
-- Flow 3:  
Average throughput: 34.33 Mbit/s  
95th percentile per-packet one-way delay: 24.218 ms  
Loss rate: 0.15%

# Run 9: Report of TCP Cubic — Data Link

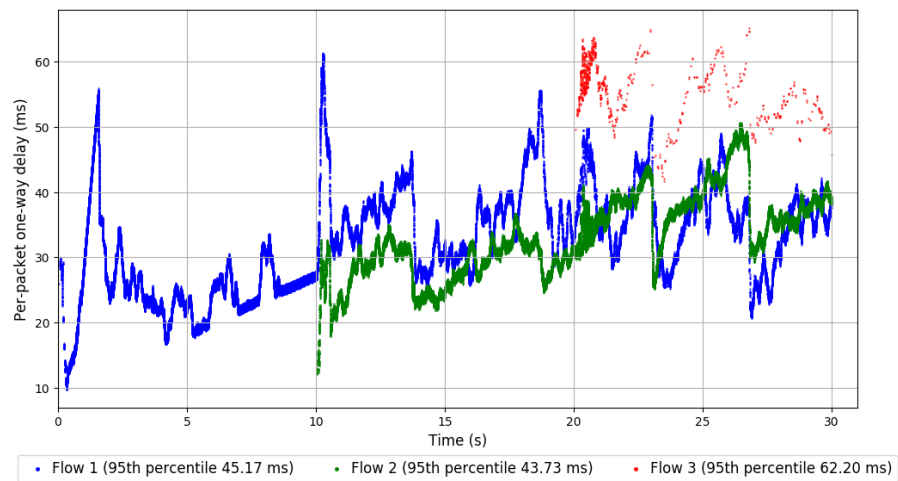
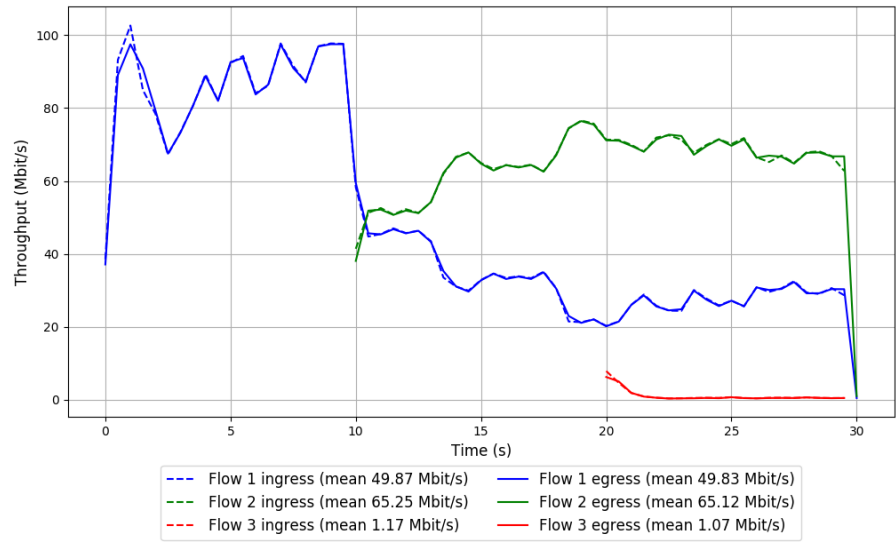


Run 10: Statistics of TCP Cubic

Start at: 2018-02-04 23:56:15  
End at: 2018-02-04 23:56:45  
Local clock offset: -0.015 ms  
Remote clock offset: -5.869 ms

# Below is generated by plot.py at 2018-02-05 00:46:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.58 Mbit/s  
95th percentile per-packet one-way delay: 45.142 ms  
Loss rate: 0.08%  
-- Flow 1:  
Average throughput: 49.83 Mbit/s  
95th percentile per-packet one-way delay: 45.173 ms  
Loss rate: 0.04%  
-- Flow 2:  
Average throughput: 65.12 Mbit/s  
95th percentile per-packet one-way delay: 43.726 ms  
Loss rate: 0.05%  
-- Flow 3:  
Average throughput: 1.07 Mbit/s  
95th percentile per-packet one-way delay: 62.195 ms  
Loss rate: 8.39%

# Run 10: Report of TCP Cubic — Data Link



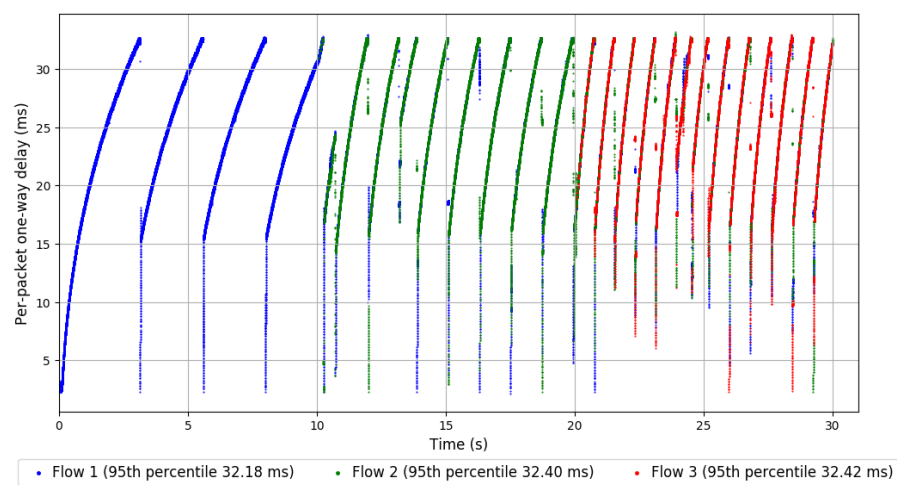
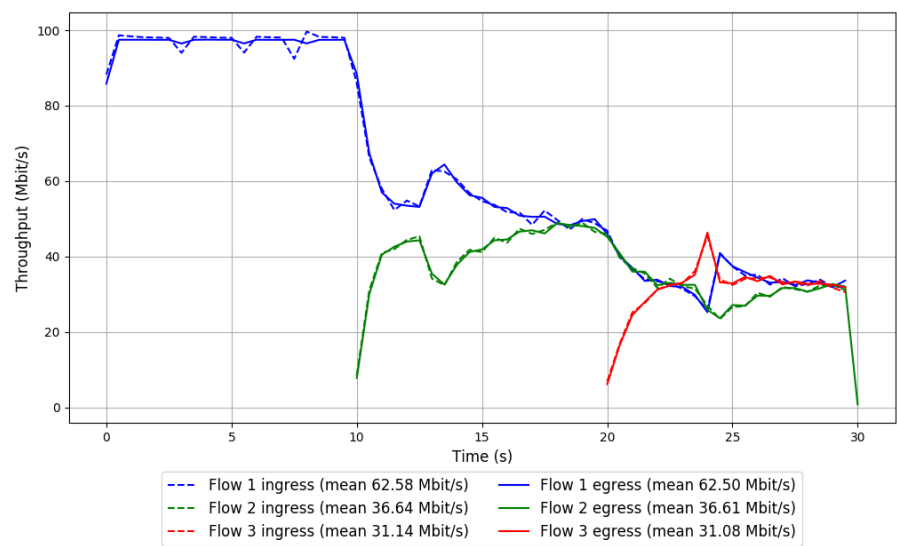
```
Run 1: Statistics of LEDBAT

Start at: 2018-02-04 20:48:44
End at: 2018-02-04 20:49:14
Local clock offset: 0.078 ms
Remote clock offset: 2.367 ms

# Below is generated by plot.py at 2018-02-05 00:46:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.15 Mbit/s
95th percentile per-packet one-way delay: 32.223 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 62.50 Mbit/s
95th percentile per-packet one-way delay: 32.180 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 36.61 Mbit/s
95th percentile per-packet one-way delay: 32.397 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 31.08 Mbit/s
95th percentile per-packet one-way delay: 32.420 ms
Loss rate: 0.06%
```



Run 1: Report of LEDBAT — Data Link

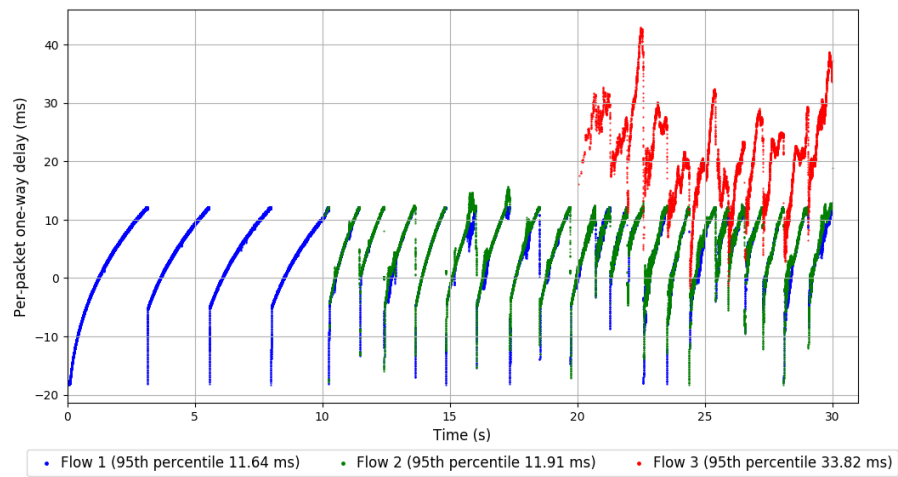
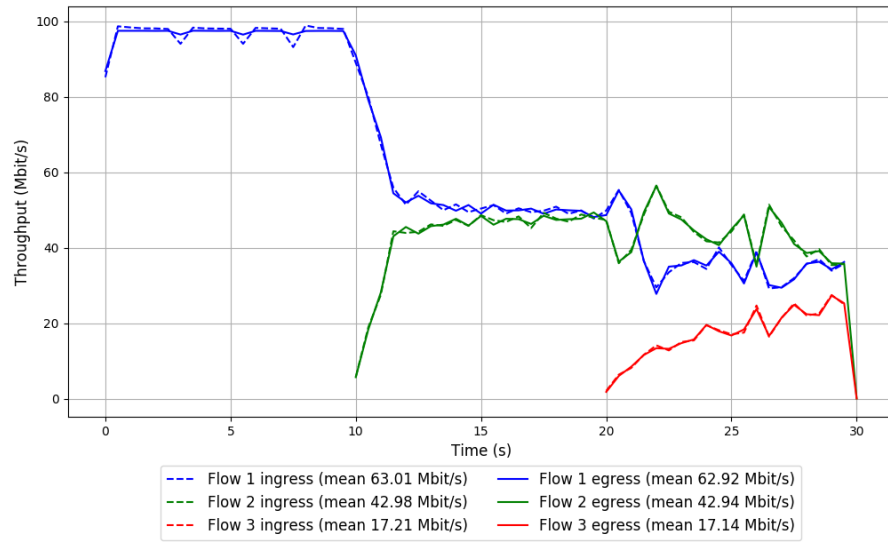


Run 2: Statistics of LEDBAT

Start at: 2018-02-04 21:09:19  
End at: 2018-02-04 21:09:49  
Local clock offset: -0.003 ms  
Remote clock offset: -18.377 ms

# Below is generated by plot.py at 2018-02-05 00:46:10  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.16 Mbit/s  
95th percentile per-packet one-way delay: 13.661 ms  
Loss rate: 0.06%  
-- Flow 1:  
Average throughput: 62.92 Mbit/s  
95th percentile per-packet one-way delay: 11.637 ms  
Loss rate: 0.04%  
-- Flow 2:  
Average throughput: 42.94 Mbit/s  
95th percentile per-packet one-way delay: 11.906 ms  
Loss rate: 0.05%  
-- Flow 3:  
Average throughput: 17.14 Mbit/s  
95th percentile per-packet one-way delay: 33.822 ms  
Loss rate: 0.42%

## Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-02-04 21:29:51

End at: 2018-02-04 21:30:21

Local clock offset: 0.07 ms

Remote clock offset: 2.113 ms

# Below is generated by plot.py at 2018-02-05 00:46:11

# Datalink statistics

-- Total of 3 flows:

Average throughput: 96.58 Mbit/s

95th percentile per-packet one-way delay: 35.355 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 57.85 Mbit/s

95th percentile per-packet one-way delay: 36.377 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 41.99 Mbit/s

95th percentile per-packet one-way delay: 32.372 ms

Loss rate: 0.07%

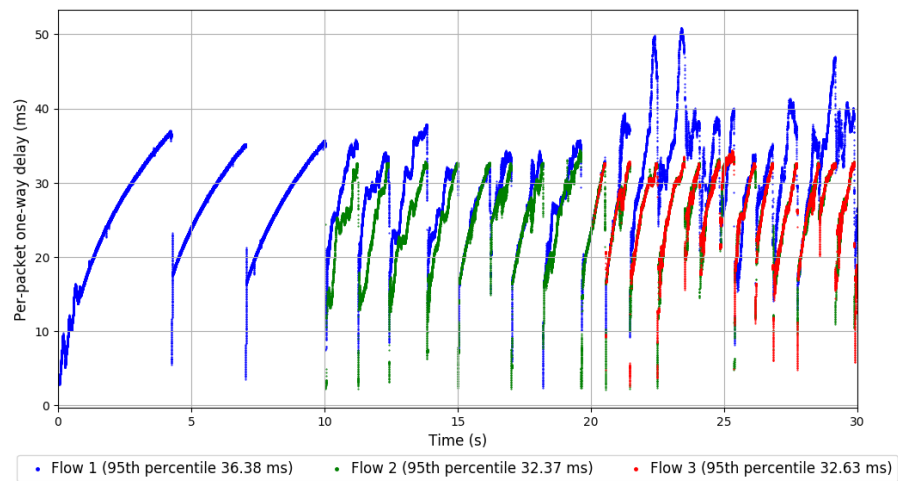
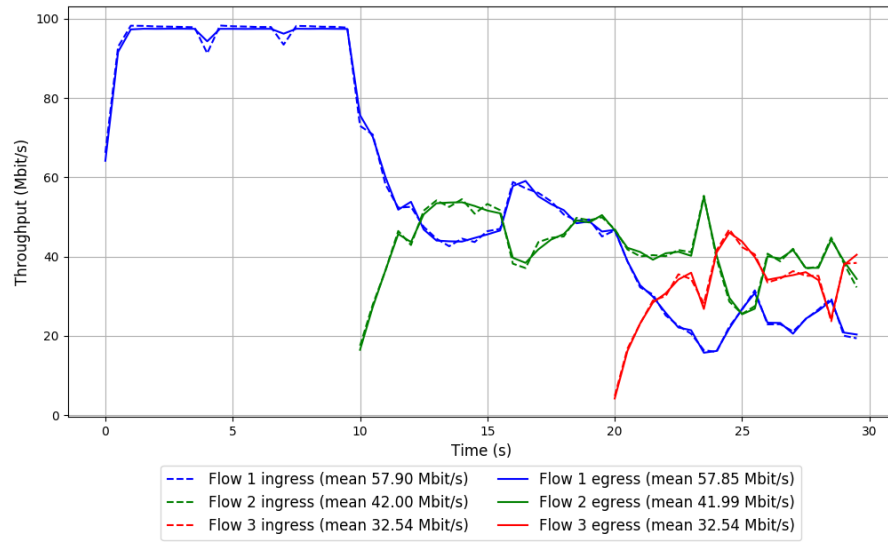
-- Flow 3:

Average throughput: 32.54 Mbit/s

95th percentile per-packet one-way delay: 32.628 ms

Loss rate: 0.08%

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

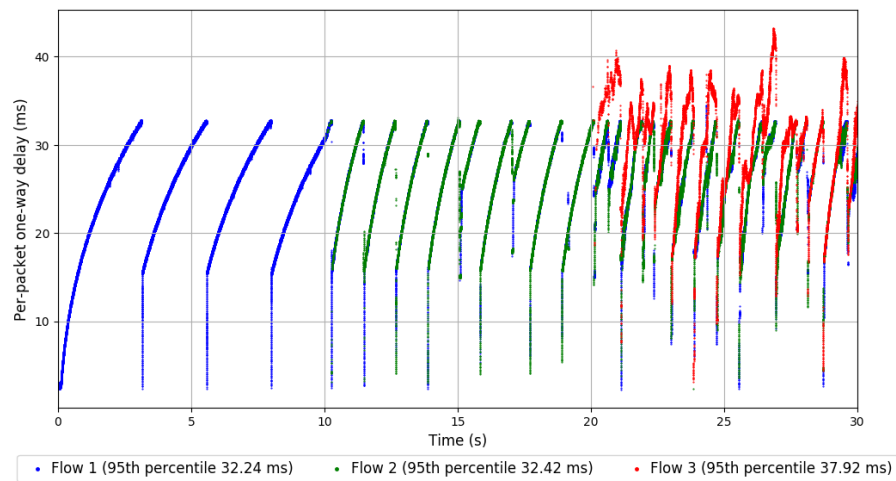
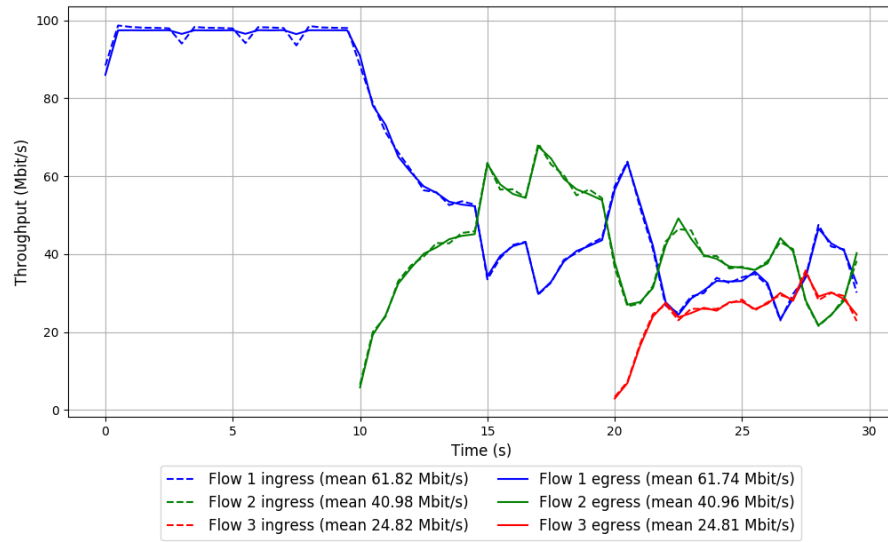


Run 4: Statistics of LEDBAT

Start at: 2018-02-04 21:50:19  
End at: 2018-02-04 21:50:49  
Local clock offset: -0.039 ms  
Remote clock offset: 2.16 ms

# Below is generated by plot.py at 2018-02-05 00:46:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.19 Mbit/s  
95th percentile per-packet one-way delay: 32.494 ms  
Loss rate: 0.05%  
-- Flow 1:  
Average throughput: 61.74 Mbit/s  
95th percentile per-packet one-way delay: 32.245 ms  
Loss rate: 0.04%  
-- Flow 2:  
Average throughput: 40.96 Mbit/s  
95th percentile per-packet one-way delay: 32.420 ms  
Loss rate: 0.06%  
-- Flow 3:  
Average throughput: 24.81 Mbit/s  
95th percentile per-packet one-way delay: 37.925 ms  
Loss rate: 0.16%

# Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-02-04 22:10:43

End at: 2018-02-04 22:11:13

Local clock offset: -0.033 ms

Remote clock offset: 3.066 ms

# Below is generated by plot.py at 2018-02-05 00:46:51

# Datalink statistics

-- Total of 3 flows:

Average throughput: 97.08 Mbit/s

95th percentile per-packet one-way delay: 40.940 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 76.30 Mbit/s

95th percentile per-packet one-way delay: 31.990 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 31.07 Mbit/s

95th percentile per-packet one-way delay: 46.430 ms

Loss rate: 0.06%

-- Flow 3:

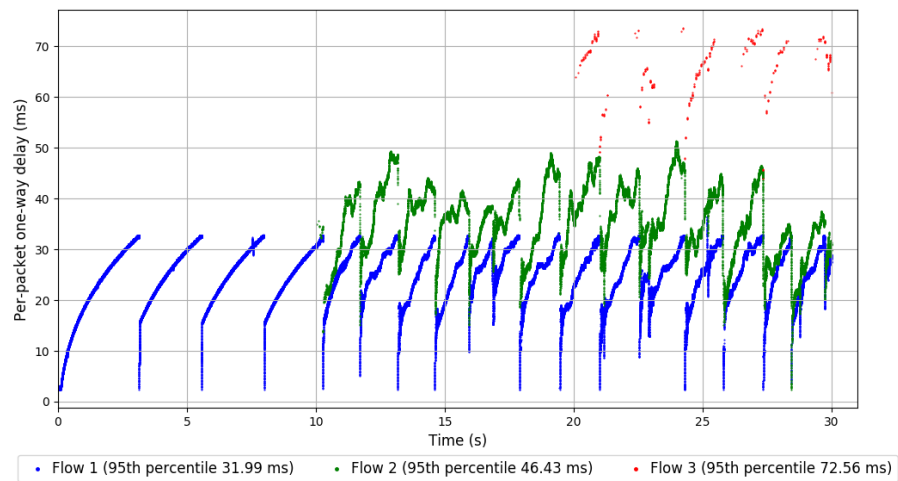
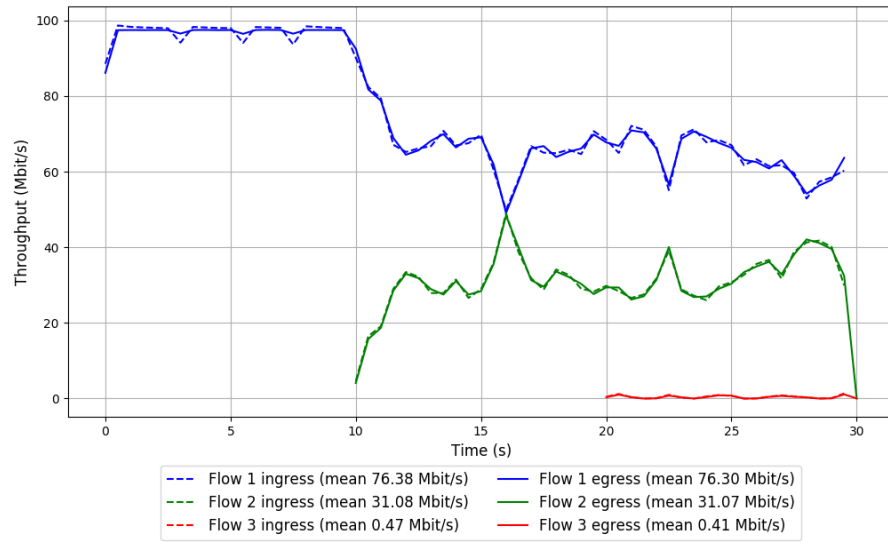
Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 72.559 ms

Loss rate: 12.95%



# Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-02-04 22:31:16

End at: 2018-02-04 22:31:46

Local clock offset: 0.033 ms

Remote clock offset: 3.239 ms

# Below is generated by plot.py at 2018-02-05 00:47:30

# Datalink statistics

-- Total of 3 flows:

Average throughput: 97.16 Mbit/s

95th percentile per-packet one-way delay: 32.461 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 62.79 Mbit/s

95th percentile per-packet one-way delay: 32.175 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 42.25 Mbit/s

95th percentile per-packet one-way delay: 32.338 ms

Loss rate: 0.06%

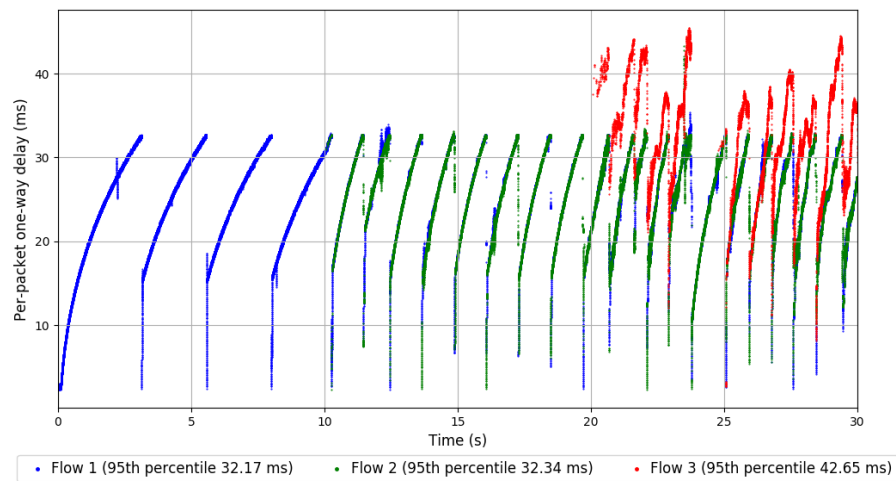
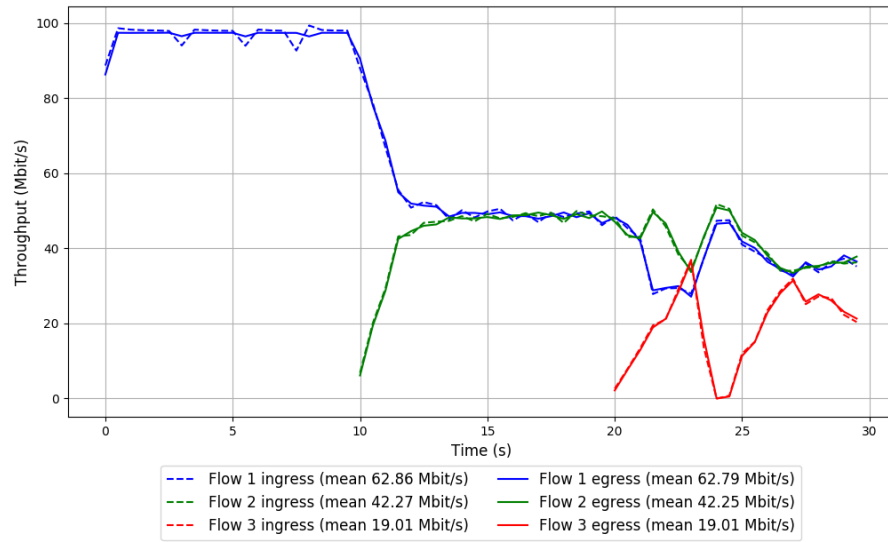
-- Flow 3:

Average throughput: 19.01 Mbit/s

95th percentile per-packet one-way delay: 42.651 ms

Loss rate: 0.11%

# Run 6: Report of LEDBAT — Data Link

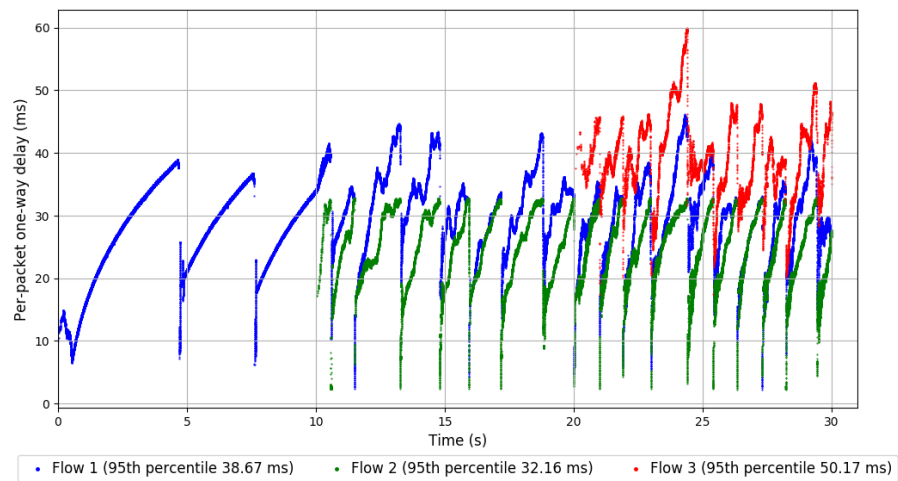
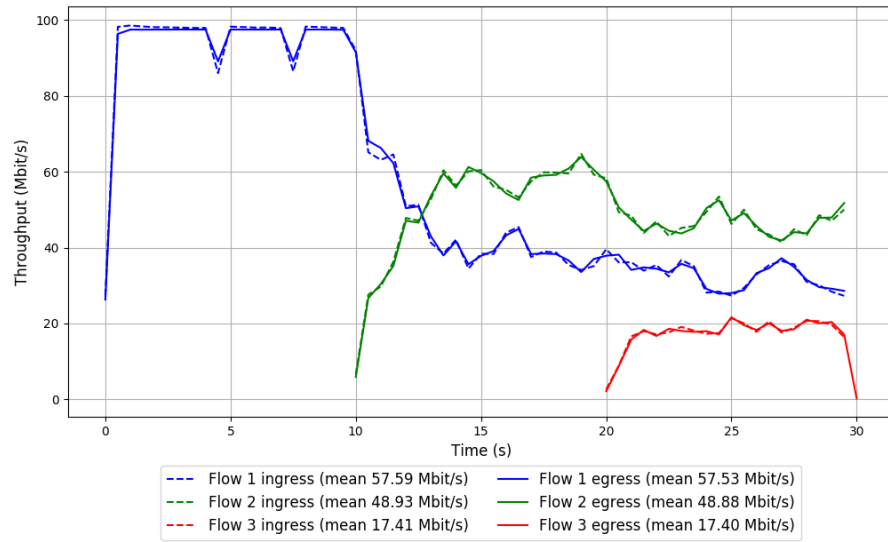


Run 7: Statistics of LEDBAT

Start at: 2018-02-04 22:51:53  
End at: 2018-02-04 22:52:23  
Local clock offset: -0.006 ms  
Remote clock offset: 2.884 ms

# Below is generated by plot.py at 2018-02-05 00:47:30  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.84 Mbit/s  
95th percentile per-packet one-way delay: 39.710 ms  
Loss rate: 0.06%  
-- Flow 1:  
Average throughput: 57.53 Mbit/s  
95th percentile per-packet one-way delay: 38.671 ms  
Loss rate: 0.04%  
-- Flow 2:  
Average throughput: 48.88 Mbit/s  
95th percentile per-packet one-way delay: 32.161 ms  
Loss rate: 0.07%  
-- Flow 3:  
Average throughput: 17.40 Mbit/s  
95th percentile per-packet one-way delay: 50.170 ms  
Loss rate: 0.12%

## Run 7: Report of LEDBAT — Data Link

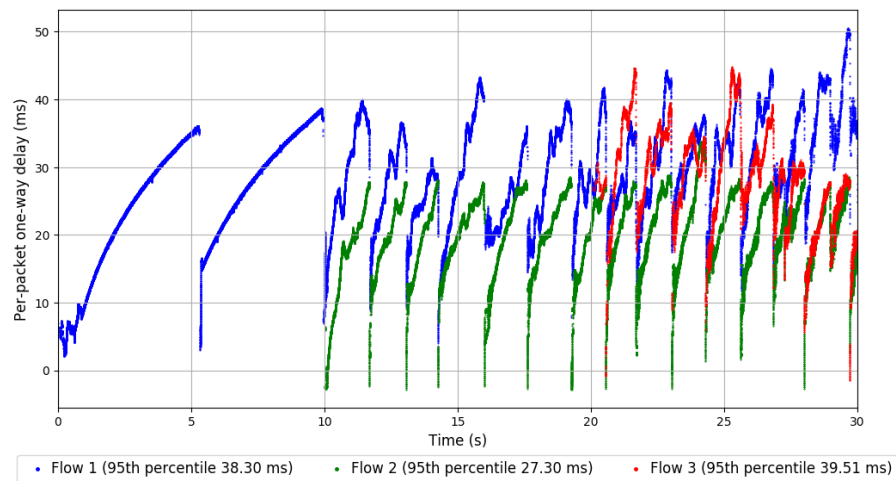
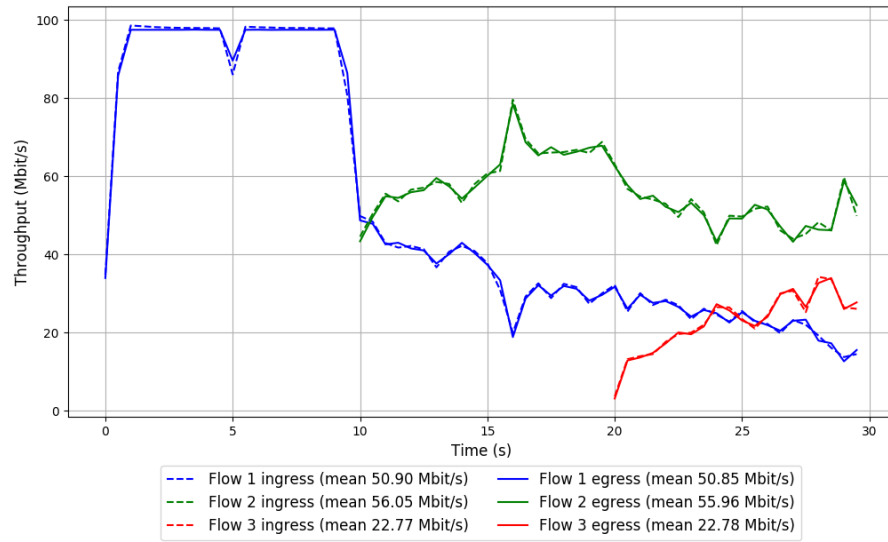


Run 8: Statistics of LEDBAT

Start at: 2018-02-04 23:12:26  
End at: 2018-02-04 23:12:56  
Local clock offset: 0.012 ms  
Remote clock offset: -2.486 ms

# Below is generated by plot.py at 2018-02-05 00:47:32  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.69 Mbit/s  
95th percentile per-packet one-way delay: 37.282 ms  
Loss rate: 0.06%  
-- Flow 1:  
Average throughput: 50.85 Mbit/s  
95th percentile per-packet one-way delay: 38.295 ms  
Loss rate: 0.05%  
-- Flow 2:  
Average throughput: 55.96 Mbit/s  
95th percentile per-packet one-way delay: 27.303 ms  
Loss rate: 0.06%  
-- Flow 3:  
Average throughput: 22.78 Mbit/s  
95th percentile per-packet one-way delay: 39.510 ms  
Loss rate: 0.07%

# Run 8: Report of LEDBAT — Data Link



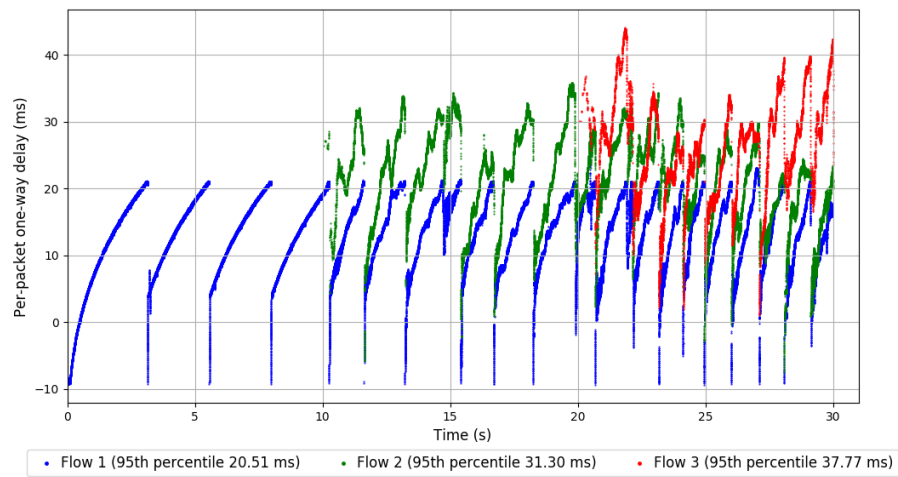
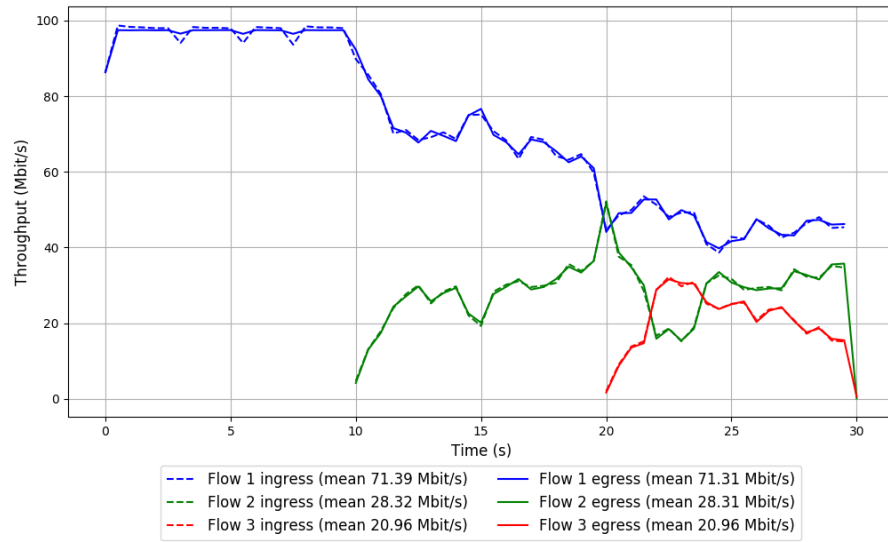
Run 9: Statistics of LEDBAT

Start at: 2018-02-04 23:33:09  
End at: 2018-02-04 23:33:39  
Local clock offset: -0.073 ms  
Remote clock offset: -9.039 ms

# Below is generated by plot.py at 2018-02-05 00:47:37  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.06 Mbit/s  
95th percentile per-packet one-way delay: 28.554 ms  
Loss rate: 0.04%  
-- Flow 1:  
Average throughput: 71.31 Mbit/s  
95th percentile per-packet one-way delay: 20.513 ms  
Loss rate: 0.03%  
-- Flow 2:  
Average throughput: 28.31 Mbit/s  
95th percentile per-packet one-way delay: 31.303 ms  
Loss rate: 0.06%  
-- Flow 3:  
Average throughput: 20.96 Mbit/s  
95th percentile per-packet one-way delay: 37.775 ms  
Loss rate: 0.10%



# Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-02-04 23:53:59

End at: 2018-02-04 23:54:29

Local clock offset: -0.012 ms

Remote clock offset: 2.736 ms

# Below is generated by plot.py at 2018-02-05 00:47:39

# Datalink statistics

-- Total of 3 flows:

Average throughput: 97.04 Mbit/s

95th percentile per-packet one-way delay: 32.220 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 80.60 Mbit/s

95th percentile per-packet one-way delay: 32.200 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 0.47 Mbit/s

95th percentile per-packet one-way delay: 73.613 ms

Loss rate: 10.40%

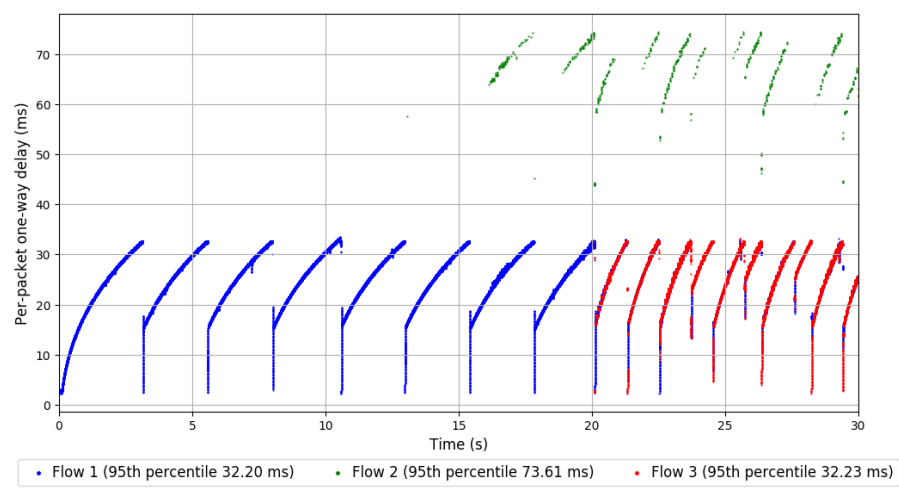
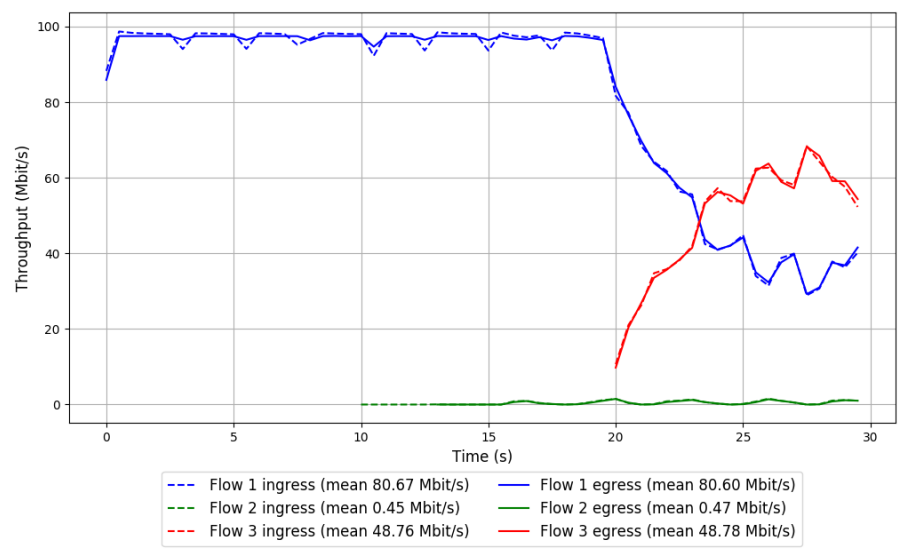
-- Flow 3:

Average throughput: 48.78 Mbit/s

95th percentile per-packet one-way delay: 32.228 ms

Loss rate: 0.03%

Run 10: Report of LEDBAT — Data Link

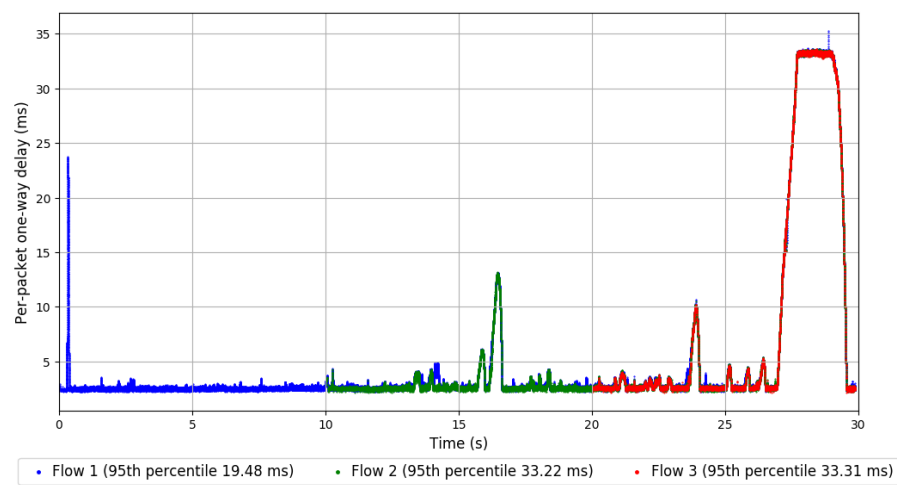
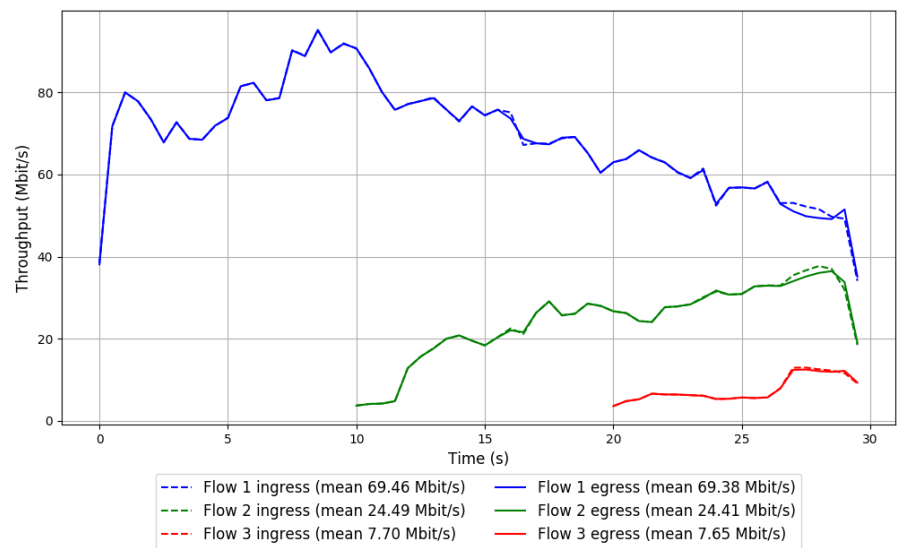


```
Run 1: Statistics of PCC

Start at: 2018-02-04 20:53:11
End at: 2018-02-04 20:53:41
Local clock offset: 0.033 ms
Remote clock offset: 2.36 ms

# Below is generated by plot.py at 2018-02-05 00:47:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.14 Mbit/s
95th percentile per-packet one-way delay: 32.726 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 69.38 Mbit/s
95th percentile per-packet one-way delay: 19.482 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 24.41 Mbit/s
95th percentile per-packet one-way delay: 33.219 ms
Loss rate: 0.32%
-- Flow 3:
Average throughput: 7.65 Mbit/s
95th percentile per-packet one-way delay: 33.312 ms
Loss rate: 0.73%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2018-02-04 21:13:47

End at: 2018-02-04 21:14:17

Local clock offset: 0.064 ms

Remote clock offset: 2.199 ms

# Below is generated by plot.py at 2018-02-05 00:47:39

# Datalink statistics

-- Total of 3 flows:

Average throughput: 89.88 Mbit/s

95th percentile per-packet one-way delay: 8.657 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 71.38 Mbit/s

95th percentile per-packet one-way delay: 4.730 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 23.53 Mbit/s

95th percentile per-packet one-way delay: 15.049 ms

Loss rate: 0.02%

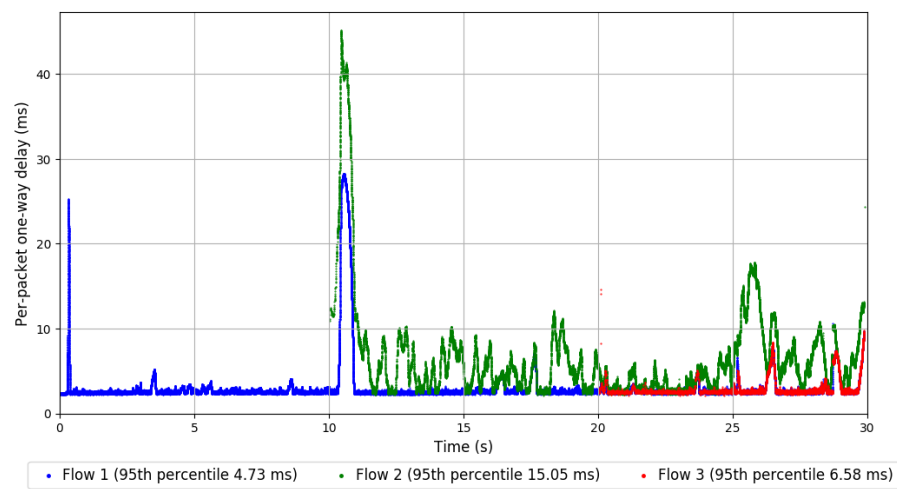
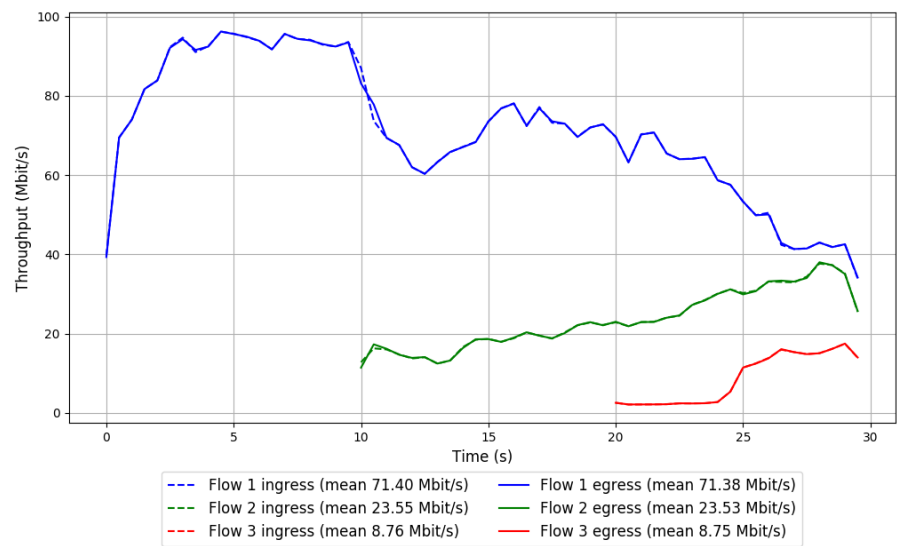
-- Flow 3:

Average throughput: 8.75 Mbit/s

95th percentile per-packet one-way delay: 6.584 ms

Loss rate: 0.00%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-02-04 21:34:20

End at: 2018-02-04 21:34:50

Local clock offset: -0.016 ms

Remote clock offset: 2.073 ms

# Below is generated by plot.py at 2018-02-05 00:48:02

# Datalink statistics

-- Total of 3 flows:

Average throughput: 71.83 Mbit/s

95th percentile per-packet one-way delay: 6.316 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 36.06 Mbit/s

95th percentile per-packet one-way delay: 5.381 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 51.90 Mbit/s

95th percentile per-packet one-way delay: 5.070 ms

Loss rate: 0.00%

-- Flow 3:

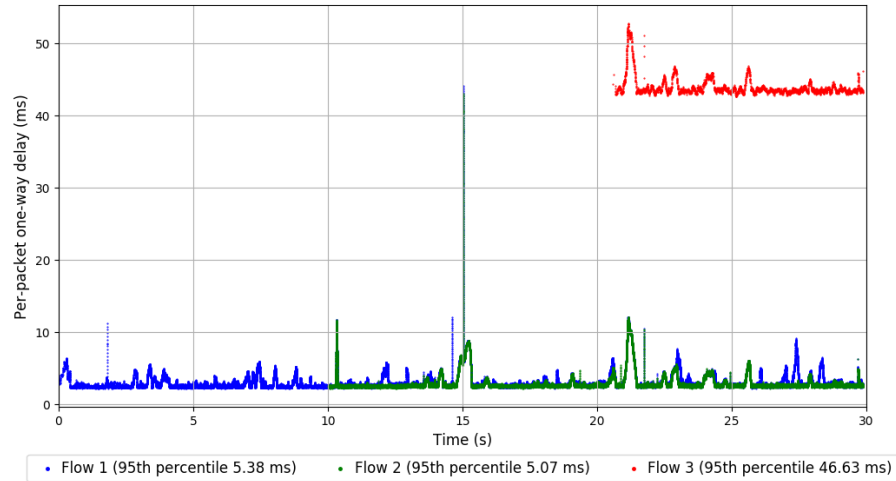
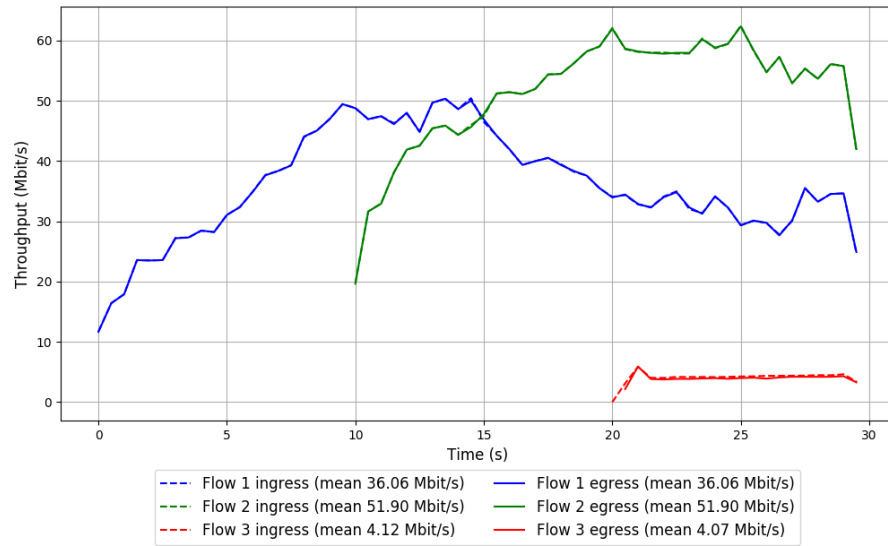
Average throughput: 4.07 Mbit/s

95th percentile per-packet one-way delay: 46.628 ms

Loss rate: 6.55%



### Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-02-04 21:54:48

End at: 2018-02-04 21:55:18

Local clock offset: 0.032 ms

Remote clock offset: 1.785 ms

# Below is generated by plot.py at 2018-02-05 00:48:23

# Datalink statistics

-- Total of 3 flows:

Average throughput: 61.52 Mbit/s

95th percentile per-packet one-way delay: 15.641 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 25.65 Mbit/s

95th percentile per-packet one-way delay: 13.443 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 53.05 Mbit/s

95th percentile per-packet one-way delay: 14.685 ms

Loss rate: 0.00%

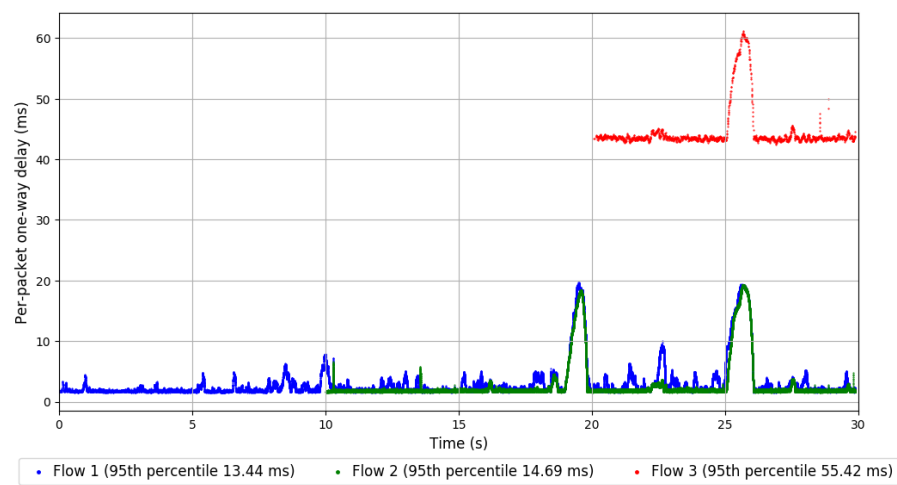
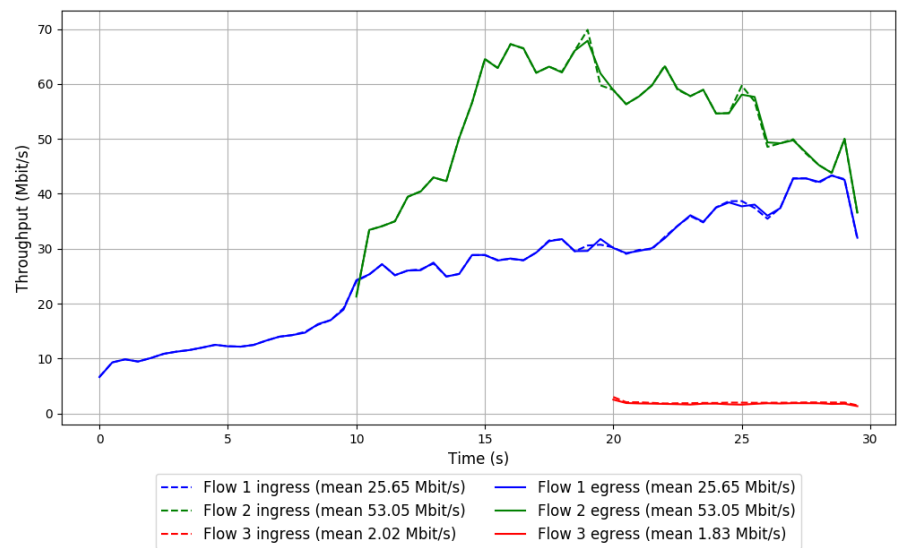
-- Flow 3:

Average throughput: 1.83 Mbit/s

95th percentile per-packet one-way delay: 55.424 ms

Loss rate: 9.89%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-02-04 22:15:11

End at: 2018-02-04 22:15:41

Local clock offset: -0.044 ms

Remote clock offset: 3.141 ms

# Below is generated by plot.py at 2018-02-05 00:48:23

# Datalink statistics

-- Total of 3 flows:

Average throughput: 60.24 Mbit/s

95th percentile per-packet one-way delay: 43.935 ms

Loss rate: 0.66%

-- Flow 1:

Average throughput: 3.93 Mbit/s

95th percentile per-packet one-way delay: 48.152 ms

Loss rate: 9.27%

-- Flow 2:

Average throughput: 73.39 Mbit/s

95th percentile per-packet one-way delay: 8.656 ms

Loss rate: 0.00%

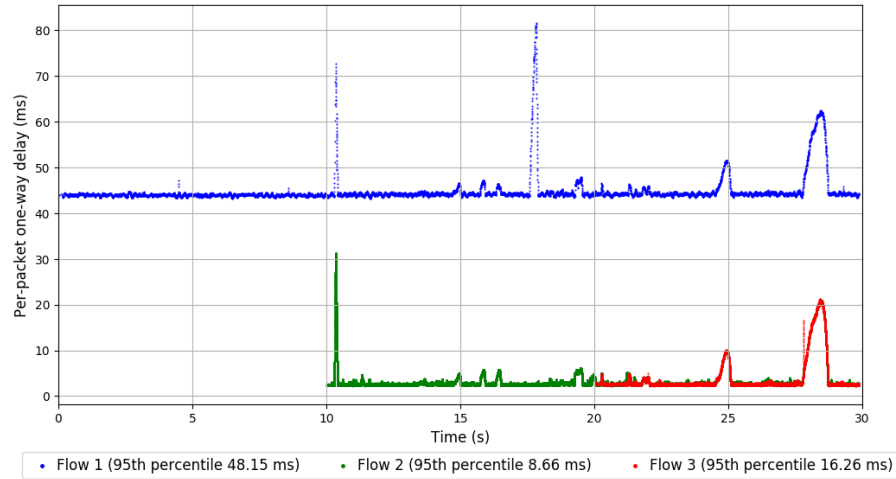
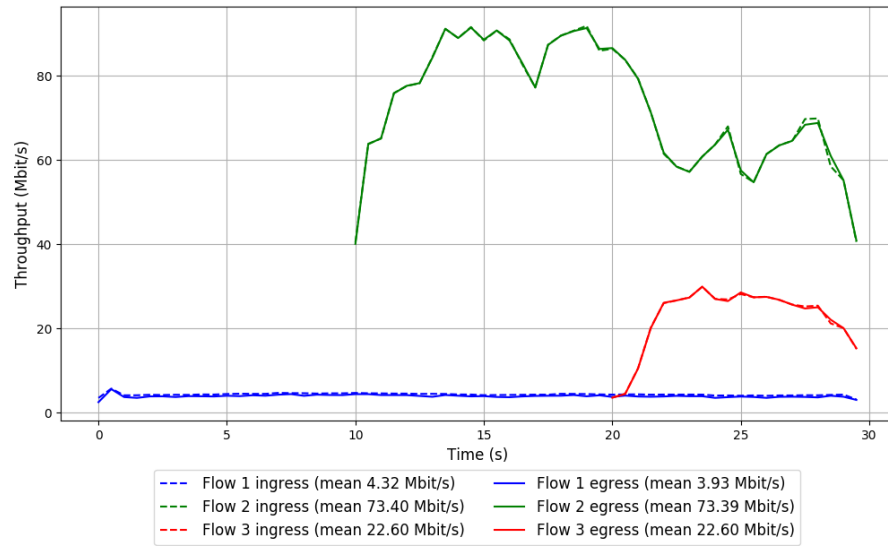
-- Flow 3:

Average throughput: 22.60 Mbit/s

95th percentile per-packet one-way delay: 16.257 ms

Loss rate: 0.00%

## Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-02-04 22:35:46

End at: 2018-02-04 22:36:16

Local clock offset: -0.019 ms

Remote clock offset: 3.066 ms

# Below is generated by plot.py at 2018-02-05 00:48:27

# Datalink statistics

-- Total of 3 flows:

Average throughput: 61.42 Mbit/s

95th percentile per-packet one-way delay: 47.035 ms

Loss rate: 0.28%

-- Flow 1:

Average throughput: 9.14 Mbit/s

95th percentile per-packet one-way delay: 42.208 ms

Loss rate: 0.22%

-- Flow 2:

Average throughput: 73.97 Mbit/s

95th percentile per-packet one-way delay: 46.117 ms

Loss rate: 0.28%

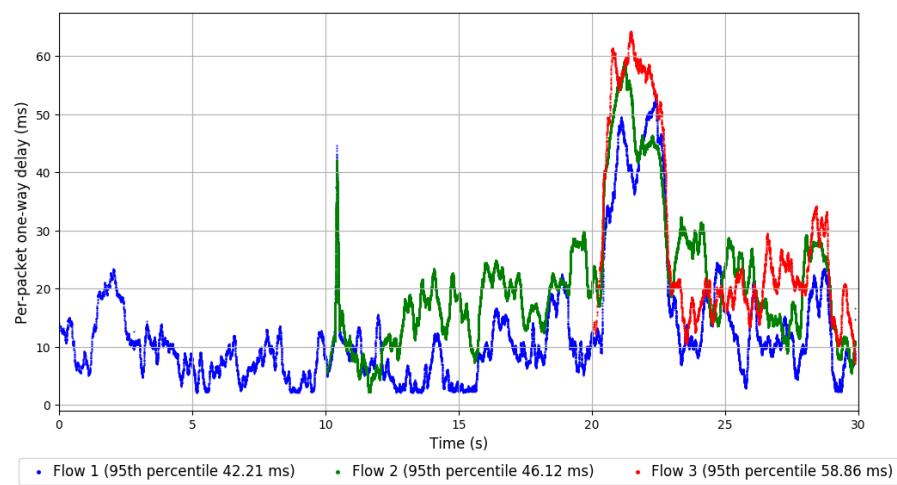
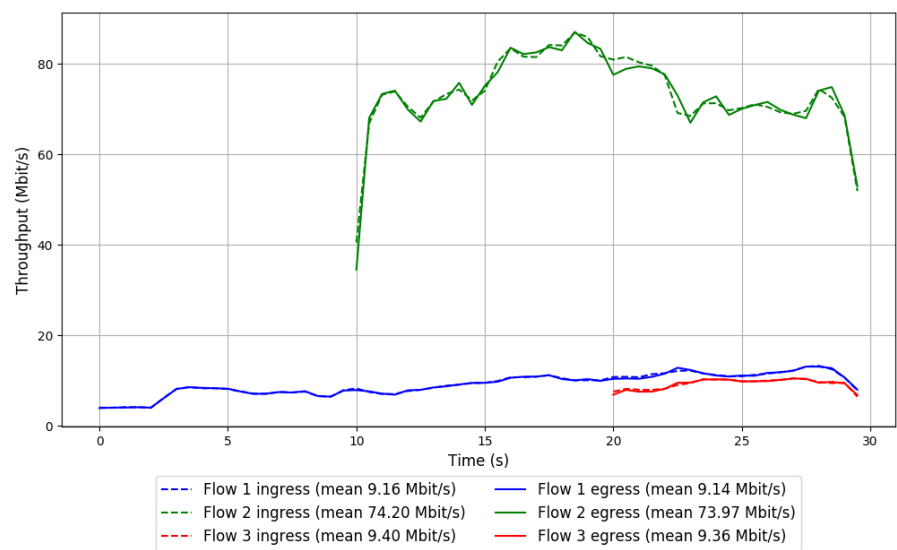
-- Flow 3:

Average throughput: 9.36 Mbit/s

95th percentile per-packet one-way delay: 58.863 ms

Loss rate: 0.49%

Run 6: Report of PCC — Data Link



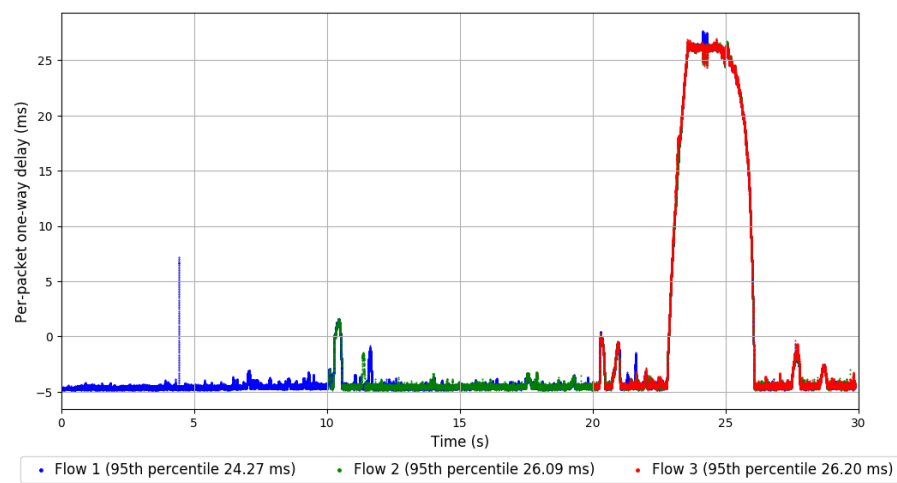
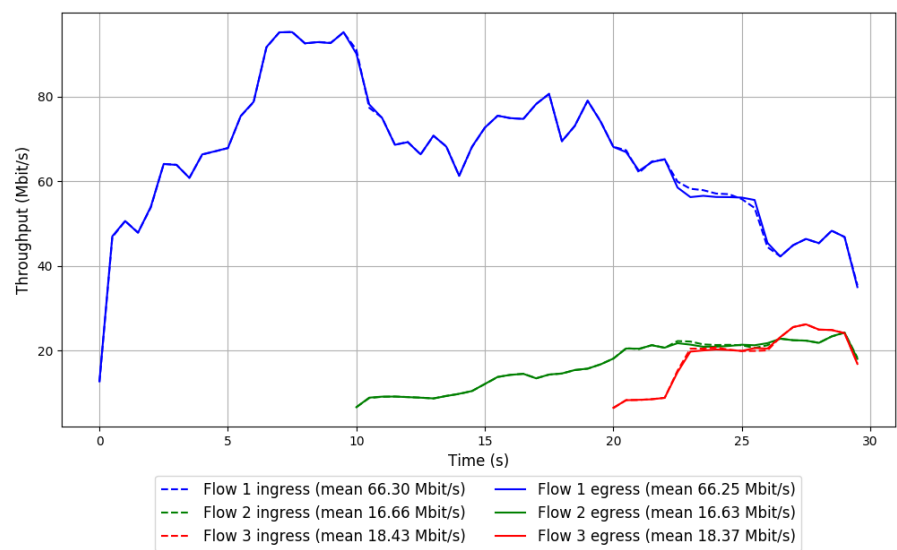
Run 7: Statistics of PCC

Start at: 2018-02-04 22:56:21  
End at: 2018-02-04 22:56:51  
Local clock offset: -0.086 ms  
Remote clock offset: -4.309 ms

# Below is generated by plot.py at 2018-02-05 00:48:48  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 83.37 Mbit/s  
95th percentile per-packet one-way delay: 25.887 ms  
Loss rate: 0.10%  
-- Flow 1:  
Average throughput: 66.25 Mbit/s  
95th percentile per-packet one-way delay: 24.273 ms  
Loss rate: 0.07%  
-- Flow 2:  
Average throughput: 16.63 Mbit/s  
95th percentile per-packet one-way delay: 26.092 ms  
Loss rate: 0.19%  
-- Flow 3:  
Average throughput: 18.37 Mbit/s  
95th percentile per-packet one-way delay: 26.203 ms  
Loss rate: 0.29%



Run 7: Report of PCC — Data Link

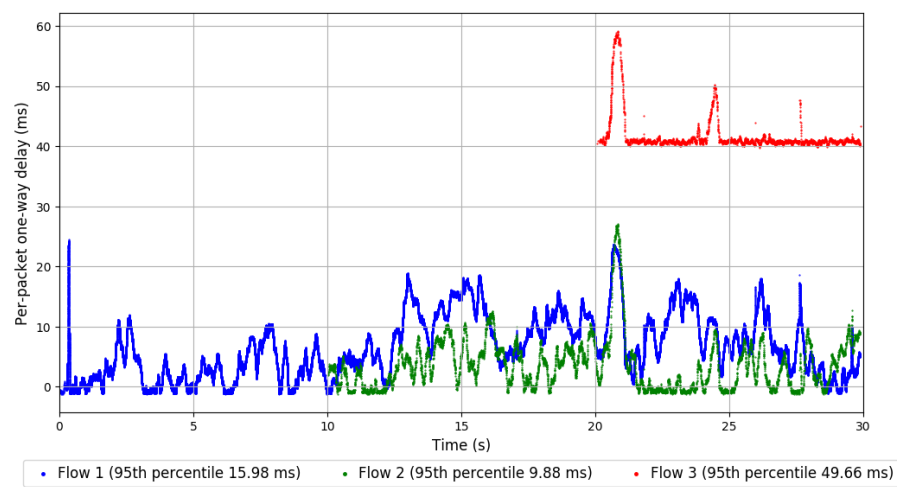
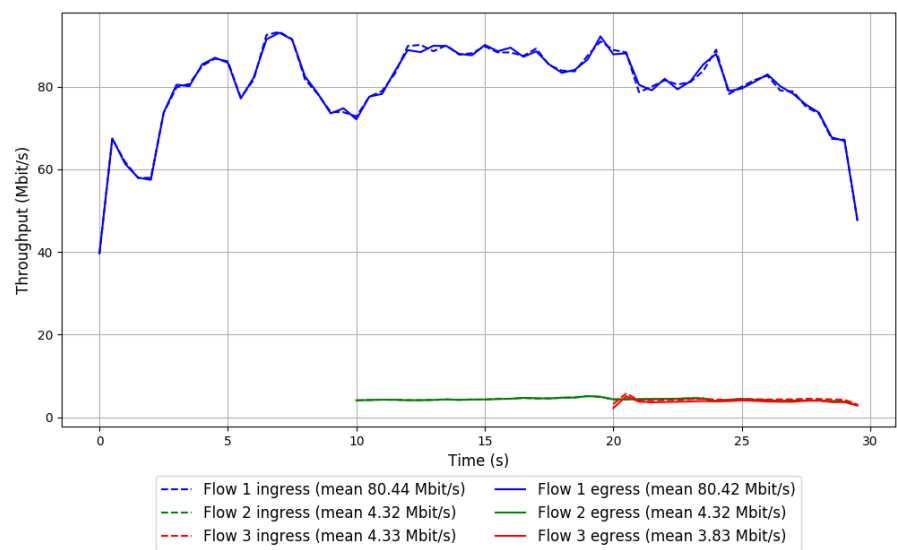


Run 8: Statistics of PCC

Start at: 2018-02-04 23:16:58  
End at: 2018-02-04 23:17:28  
Local clock offset: 0.03 ms  
Remote clock offset: -0.747 ms

# Below is generated by plot.py at 2018-02-05 00:48:52  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 84.49 Mbit/s  
95th percentile per-packet one-way delay: 16.848 ms  
Loss rate: 0.20%  
-- Flow 1:  
Average throughput: 80.42 Mbit/s  
95th percentile per-packet one-way delay: 15.983 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 4.32 Mbit/s  
95th percentile per-packet one-way delay: 9.883 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 3.83 Mbit/s  
95th percentile per-packet one-way delay: 49.657 ms  
Loss rate: 11.60%

Run 8: Report of PCC — Data Link

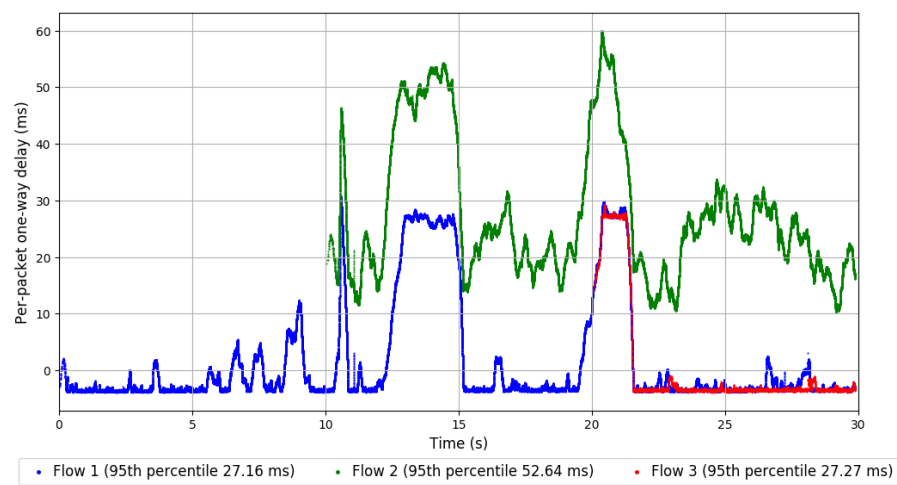
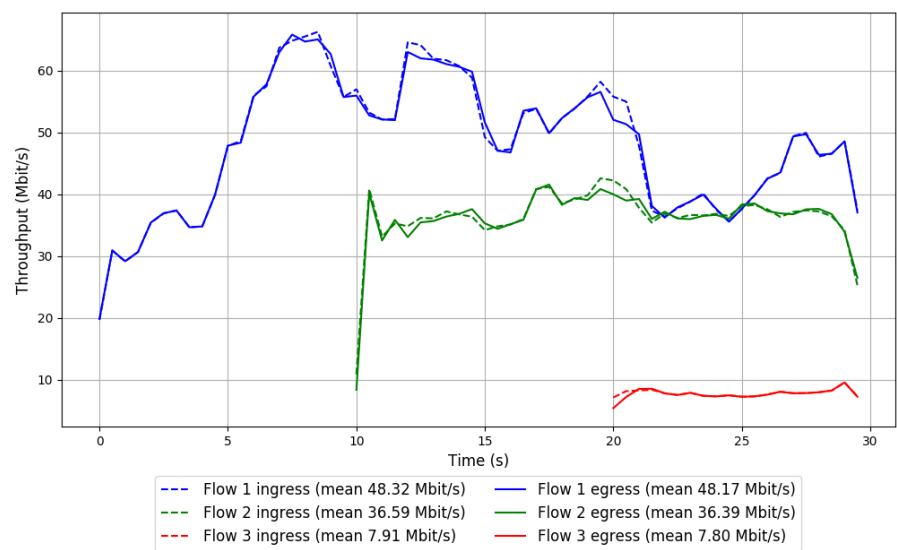


Run 9: Statistics of PCC

Start at: 2018-02-04 23:37:41  
End at: 2018-02-04 23:38:11  
Local clock offset: -0.044 ms  
Remote clock offset: -3.402 ms

# Below is generated by plot.py at 2018-02-05 00:48:52  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 74.88 Mbit/s  
95th percentile per-packet one-way delay: 46.779 ms  
Loss rate: 0.44%  
-- Flow 1:  
Average throughput: 48.17 Mbit/s  
95th percentile per-packet one-way delay: 27.159 ms  
Loss rate: 0.32%  
-- Flow 2:  
Average throughput: 36.39 Mbit/s  
95th percentile per-packet one-way delay: 52.641 ms  
Loss rate: 0.57%  
-- Flow 3:  
Average throughput: 7.80 Mbit/s  
95th percentile per-packet one-way delay: 27.270 ms  
Loss rate: 1.50%

Run 9: Report of PCC — Data Link

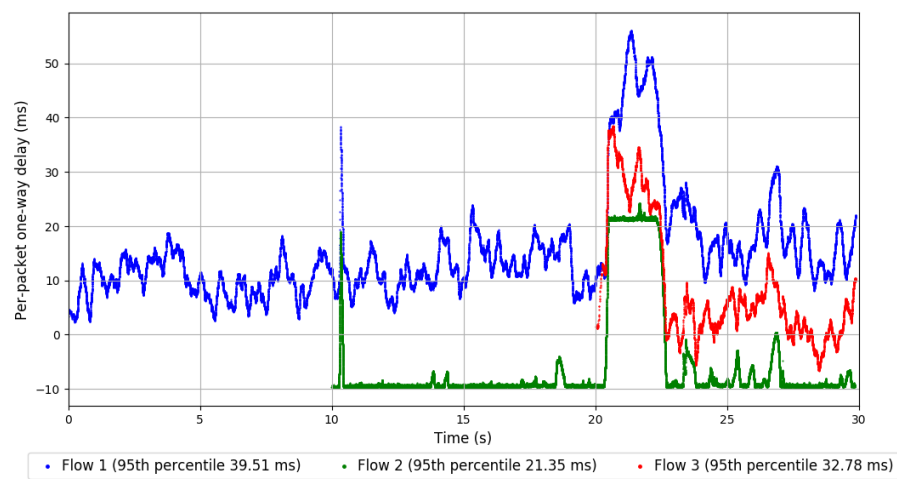
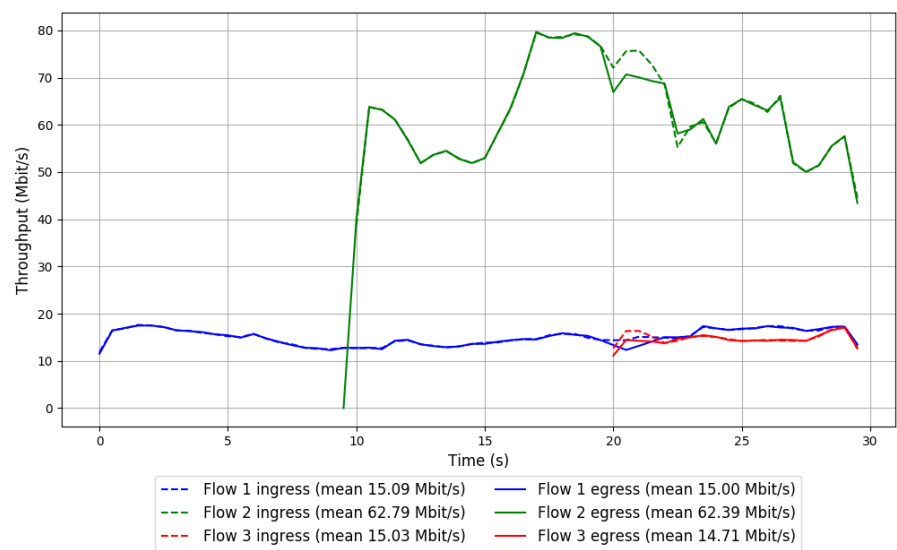


Run 10: Statistics of PCC

Start at: 2018-02-04 23:58:33  
End at: 2018-02-04 23:59:03  
Local clock offset: -0.018 ms  
Remote clock offset: -9.413 ms

# Below is generated by plot.py at 2018-02-05 00:48:52  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 61.32 Mbit/s  
95th percentile per-packet one-way delay: 21.985 ms  
Loss rate: 0.73%  
-- Flow 1:  
Average throughput: 15.00 Mbit/s  
95th percentile per-packet one-way delay: 39.509 ms  
Loss rate: 0.56%  
-- Flow 2:  
Average throughput: 62.39 Mbit/s  
95th percentile per-packet one-way delay: 21.353 ms  
Loss rate: 0.63%  
-- Flow 3:  
Average throughput: 14.71 Mbit/s  
95th percentile per-packet one-way delay: 32.782 ms  
Loss rate: 2.07%

Run 10: Report of PCC — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2018-02-04 21:02:19

End at: 2018-02-04 21:02:49

Local clock offset: 0.04 ms

Remote clock offset: 2.268 ms

# Below is generated by plot.py at 2018-02-05 00:49:01

# Datalink statistics

-- Total of 3 flows:

Average throughput: 57.59 Mbit/s

95th percentile per-packet one-way delay: 32.218 ms

Loss rate: 0.43%

-- Flow 1:

Average throughput: 2.04 Mbit/s

95th percentile per-packet one-way delay: 68.311 ms

Loss rate: 7.05%

-- Flow 2:

Average throughput: 62.89 Mbit/s

95th percentile per-packet one-way delay: 30.270 ms

Loss rate: 0.14%

-- Flow 3:

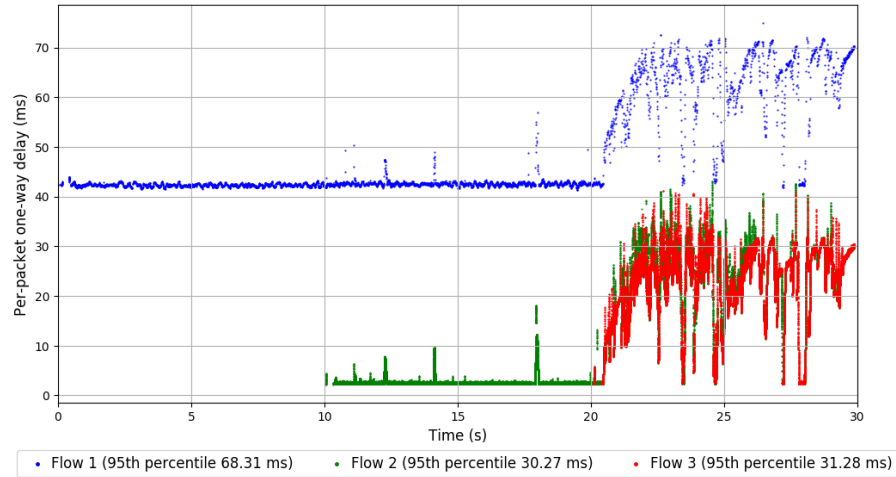
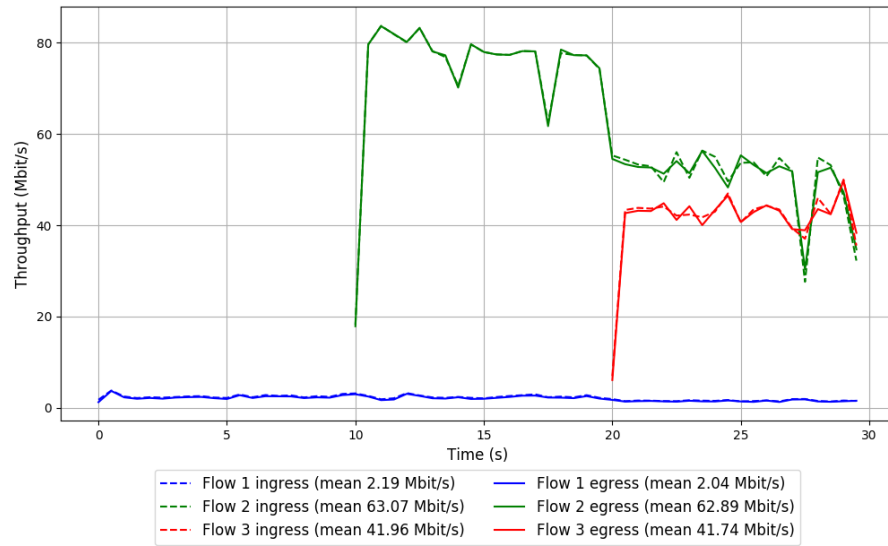
Average throughput: 41.74 Mbit/s

95th percentile per-packet one-way delay: 31.279 ms

Loss rate: 0.25%



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



Run 2: Statistics of QUIC Cubic

Start at: 2018-02-04 21:22:56

End at: 2018-02-04 21:23:26

Local clock offset: 0.005 ms

Remote clock offset: 2.17 ms

# Below is generated by plot.py at 2018-02-05 00:49:55

# Datalink statistics

-- Total of 3 flows:

Average throughput: 91.06 Mbit/s

95th percentile per-packet one-way delay: 31.662 ms

Loss rate: 0.18%

-- Flow 1:

Average throughput: 61.77 Mbit/s

95th percentile per-packet one-way delay: 31.264 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 43.26 Mbit/s

95th percentile per-packet one-way delay: 32.659 ms

Loss rate: 0.17%

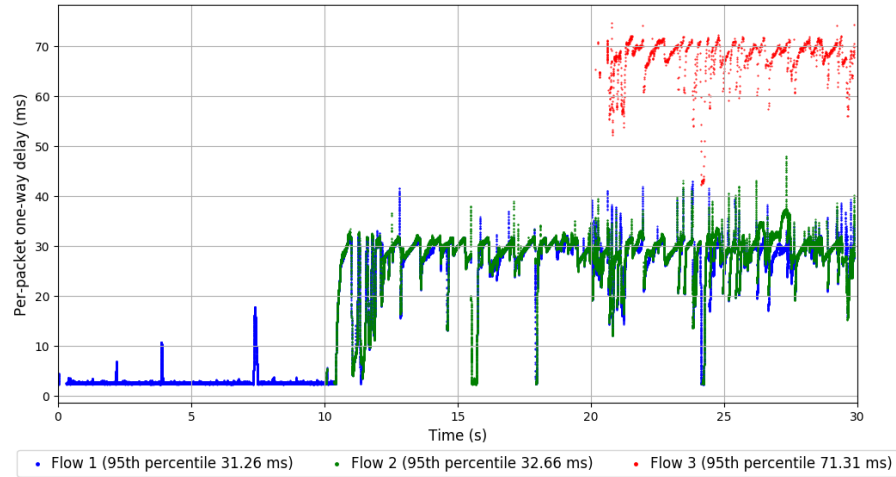
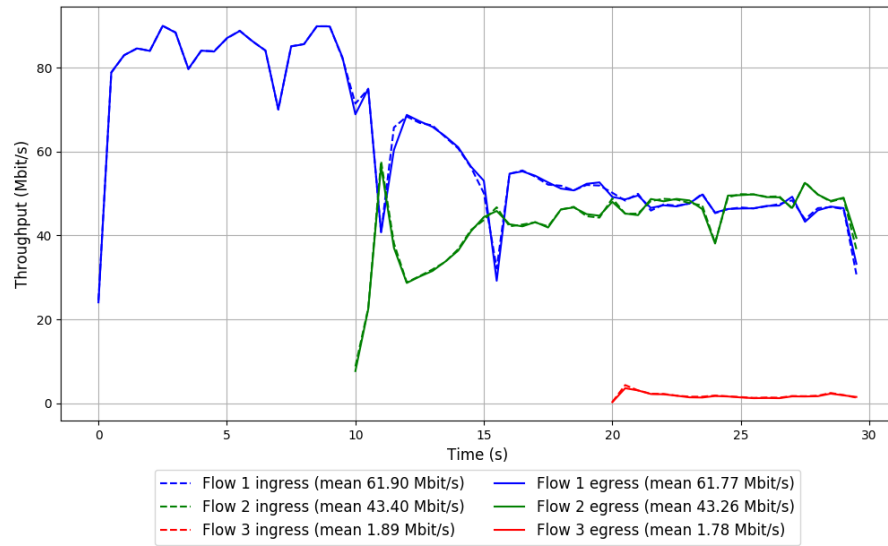
-- Flow 3:

Average throughput: 1.78 Mbit/s

95th percentile per-packet one-way delay: 71.305 ms

Loss rate: 5.95%

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



Run 3: Statistics of QUIC Cubic

Start at: 2018-02-04 21:43:23

End at: 2018-02-04 21:43:53

Local clock offset: 0.055 ms

Remote clock offset: 2.064 ms

# Below is generated by plot.py at 2018-02-05 00:50:00

# Datalink statistics

-- Total of 3 flows:

Average throughput: 91.92 Mbit/s

95th percentile per-packet one-way delay: 33.056 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 59.23 Mbit/s

95th percentile per-packet one-way delay: 31.040 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 36.15 Mbit/s

95th percentile per-packet one-way delay: 34.357 ms

Loss rate: 0.16%

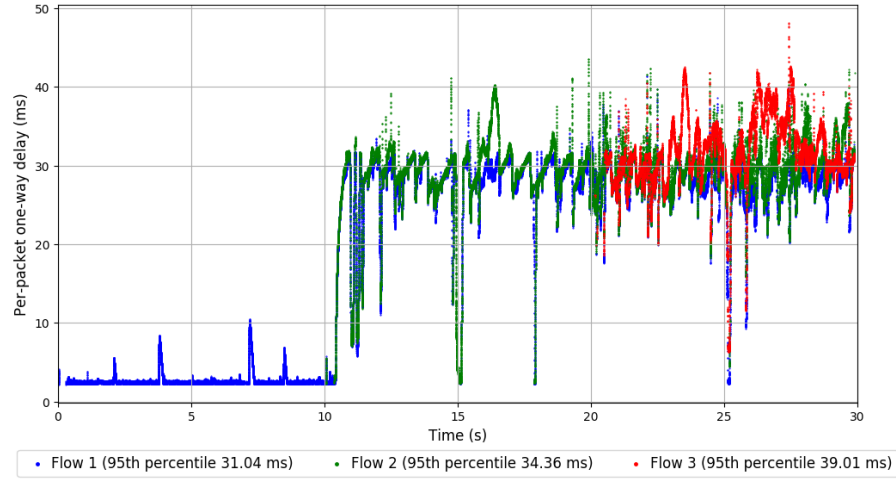
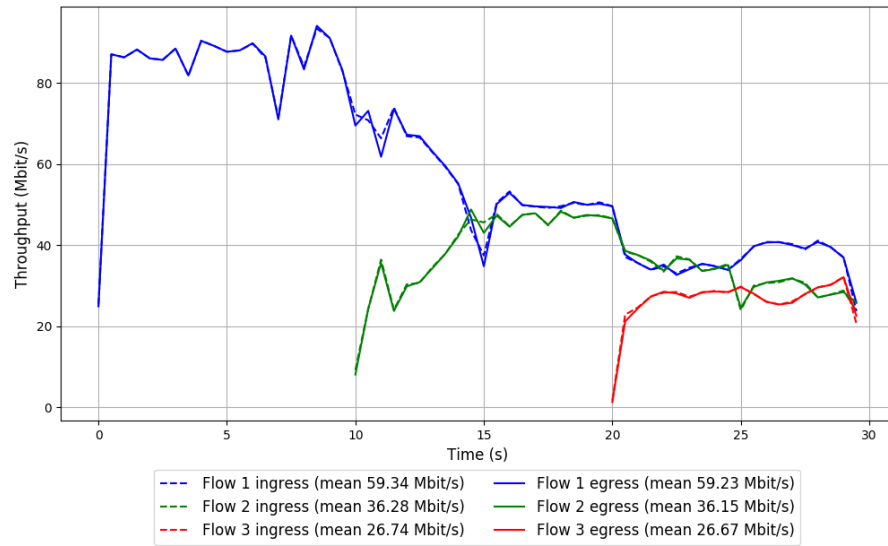
-- Flow 3:

Average throughput: 26.67 Mbit/s

95th percentile per-packet one-way delay: 39.014 ms

Loss rate: 0.22%

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



Run 4: Statistics of QUIC Cubic

Start at: 2018-02-04 22:03:47

End at: 2018-02-04 22:04:17

Local clock offset: 0.043 ms

Remote clock offset: 2.833 ms

# Below is generated by plot.py at 2018-02-05 00:50:00

# Datalink statistics

-- Total of 3 flows:

Average throughput: 81.37 Mbit/s

95th percentile per-packet one-way delay: 52.819 ms

Loss rate: 0.35%

-- Flow 1:

Average throughput: 64.67 Mbit/s

95th percentile per-packet one-way delay: 53.204 ms

Loss rate: 0.23%

-- Flow 2:

Average throughput: 1.57 Mbit/s

95th percentile per-packet one-way delay: 68.179 ms

Loss rate: 10.20%

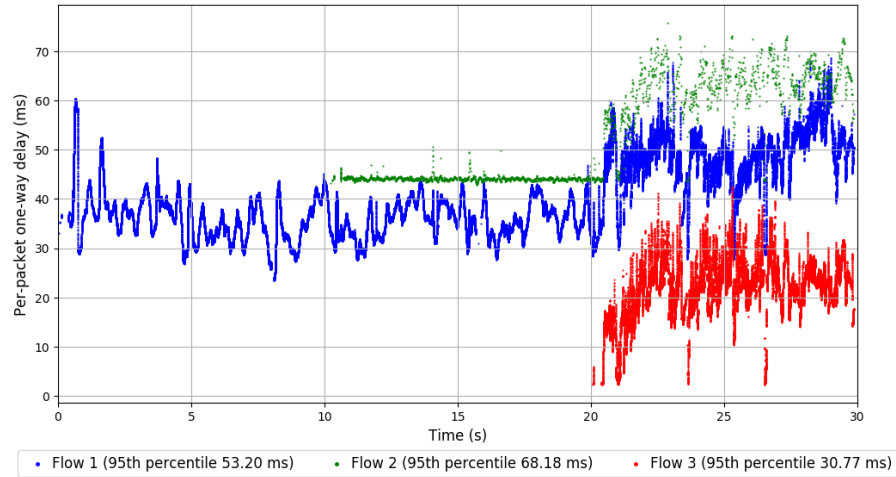
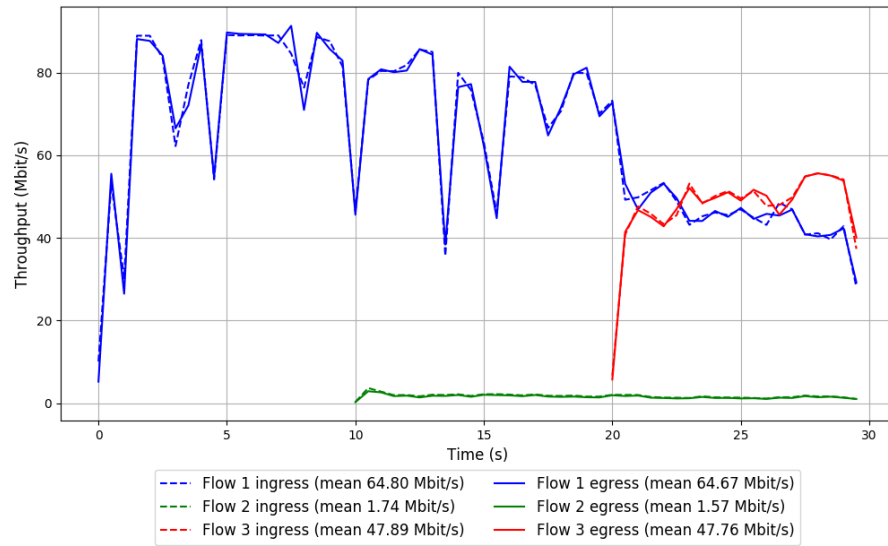
-- Flow 3:

Average throughput: 47.76 Mbit/s

95th percentile per-packet one-way delay: 30.773 ms

Loss rate: 0.12%

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



Run 5: Statistics of QUIC Cubic

Start at: 2018-02-04 22:24:19

End at: 2018-02-04 22:24:49

Local clock offset: 0.007 ms

Remote clock offset: 3.136 ms

# Below is generated by plot.py at 2018-02-05 00:50:00

# Datalink statistics

-- Total of 3 flows:

Average throughput: 57.97 Mbit/s

95th percentile per-packet one-way delay: 33.623 ms

Loss rate: 0.44%

-- Flow 1:

Average throughput: 1.73 Mbit/s

95th percentile per-packet one-way delay: 70.836 ms

Loss rate: 9.13%

-- Flow 2:

Average throughput: 67.40 Mbit/s

95th percentile per-packet one-way delay: 32.282 ms

Loss rate: 0.12%

-- Flow 3:

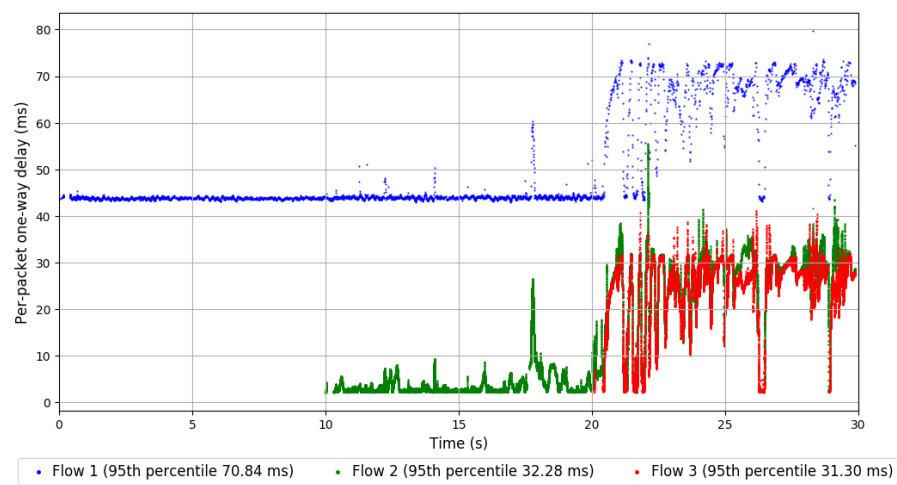
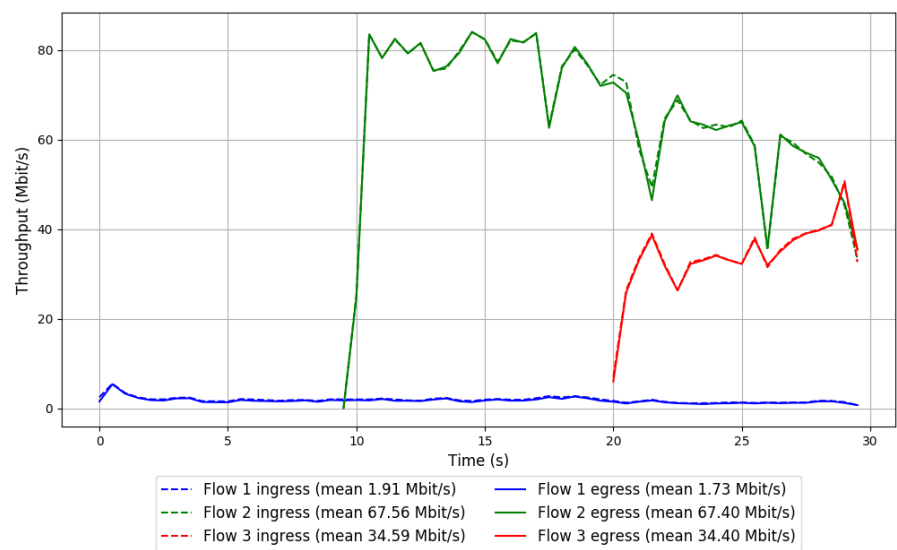
Average throughput: 34.40 Mbit/s

95th percentile per-packet one-way delay: 31.295 ms

Loss rate: 0.28%



Run 5: Report of QUIC Cubic — Data Link

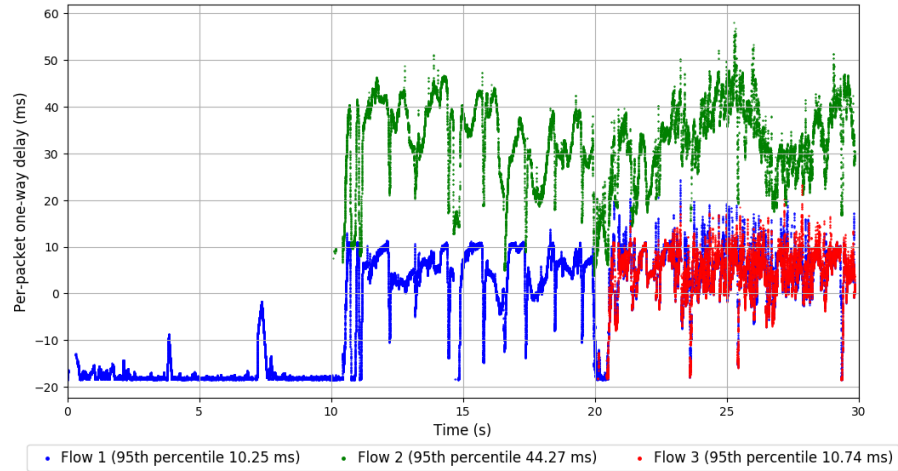
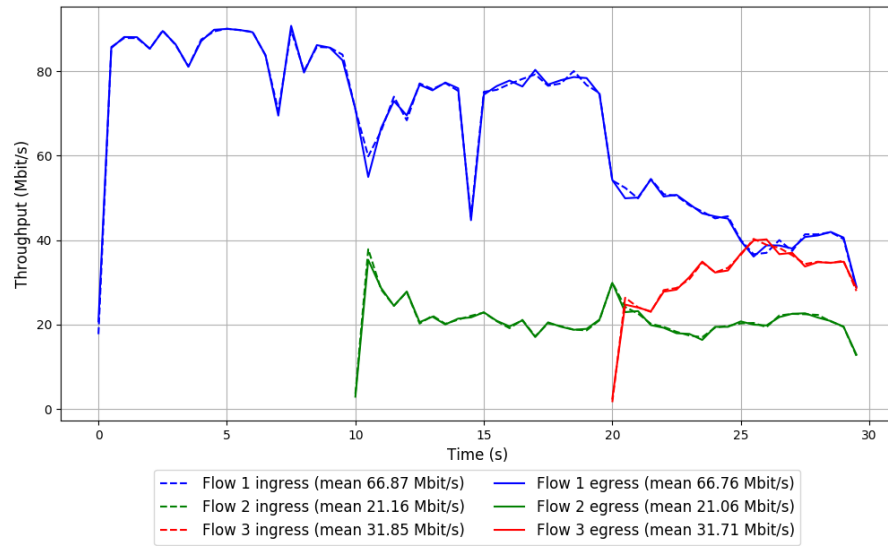


Run 6: Statistics of QUIC Cubic

Start at: 2018-02-04 22:44:56  
End at: 2018-02-04 22:45:26  
Local clock offset: -0.08 ms  
Remote clock offset: -17.849 ms

# Below is generated by plot.py at 2018-02-05 00:50:26  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 91.07 Mbit/s  
95th percentile per-packet one-way delay: 37.397 ms  
Loss rate: 0.17%  
-- Flow 1:  
Average throughput: 66.76 Mbit/s  
95th percentile per-packet one-way delay: 10.247 ms  
Loss rate: 0.10%  
-- Flow 2:  
Average throughput: 21.06 Mbit/s  
95th percentile per-packet one-way delay: 44.274 ms  
Loss rate: 0.47%  
-- Flow 3:  
Average throughput: 31.71 Mbit/s  
95th percentile per-packet one-way delay: 10.742 ms  
Loss rate: 0.22%

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

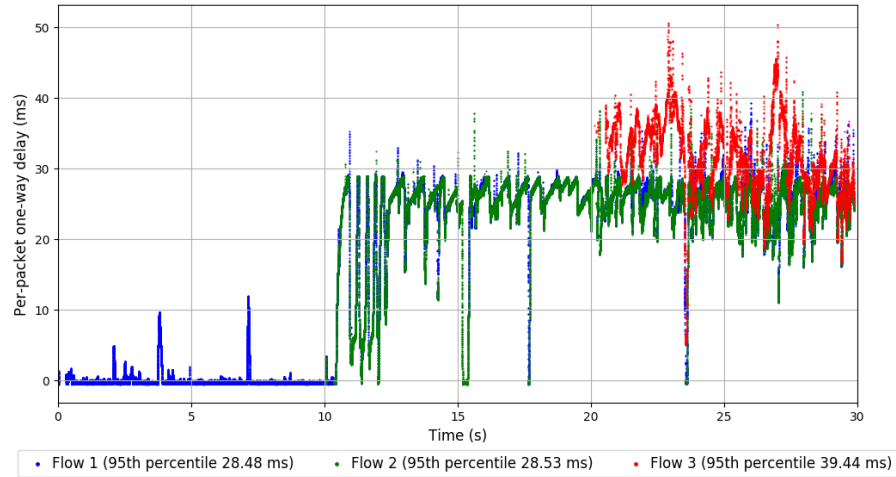
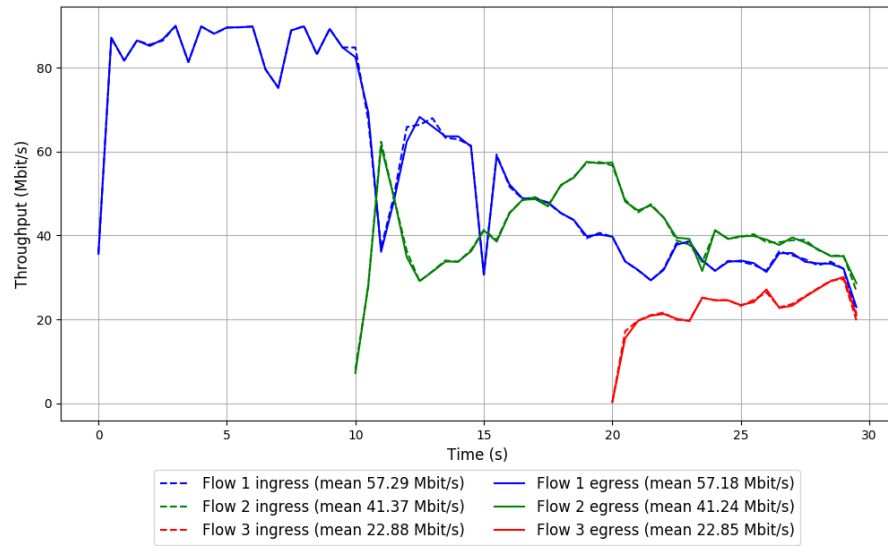


Run 7: Statistics of QUIC Cubic

Start at: 2018-02-04 23:05:30  
End at: 2018-02-04 23:06:00  
Local clock offset: -0.014 ms  
Remote clock offset: -0.161 ms

# Below is generated by plot.py at 2018-02-05 00:50:29  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.03 Mbit/s  
95th percentile per-packet one-way delay: 30.313 ms  
Loss rate: 0.15%  
-- Flow 1:  
Average throughput: 57.18 Mbit/s  
95th percentile per-packet one-way delay: 28.479 ms  
Loss rate: 0.11%  
-- Flow 2:  
Average throughput: 41.24 Mbit/s  
95th percentile per-packet one-way delay: 28.529 ms  
Loss rate: 0.20%  
-- Flow 3:  
Average throughput: 22.85 Mbit/s  
95th percentile per-packet one-way delay: 39.444 ms  
Loss rate: 0.24%

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

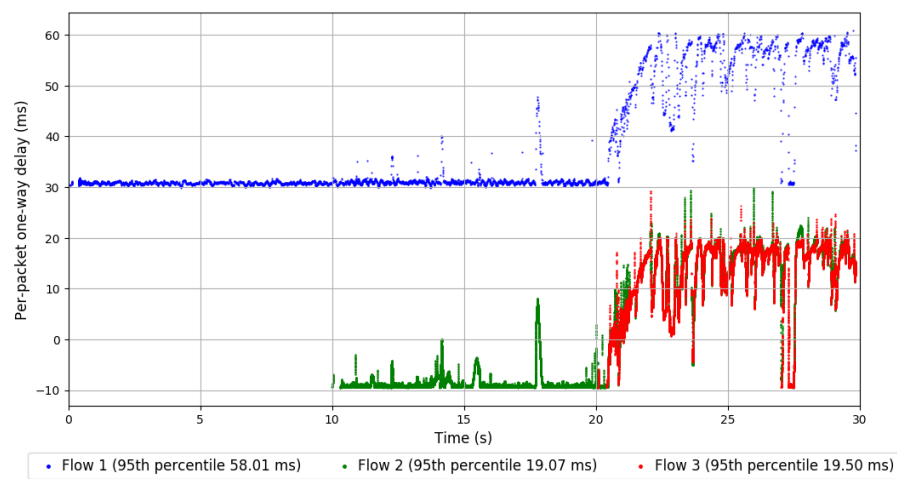
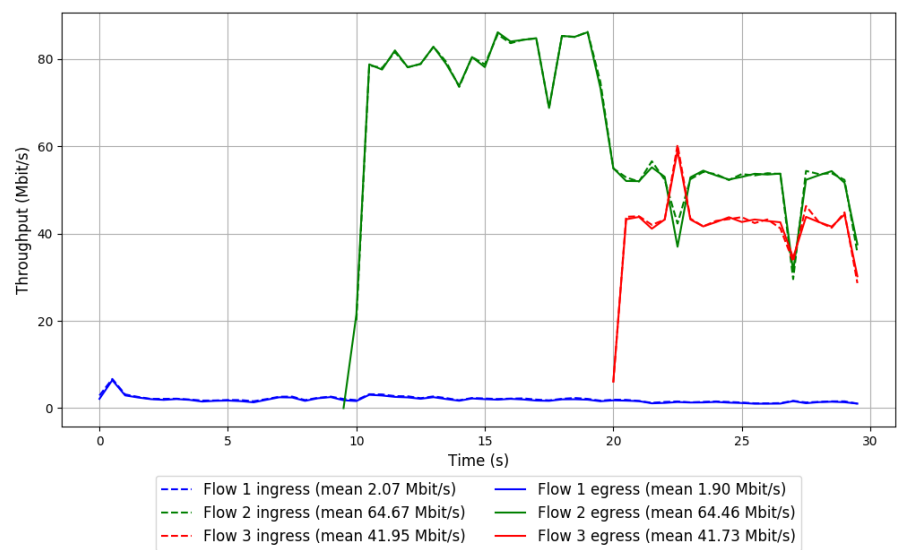


Run 8: Statistics of QUIC Cubic

Start at: 2018-02-04 23:26:07  
End at: 2018-02-04 23:26:37  
Local clock offset: -0.016 ms  
Remote clock offset: -9.156 ms

# Below is generated by plot.py at 2018-02-05 00:50:29  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 58.49 Mbit/s  
95th percentile per-packet one-way delay: 19.832 ms  
Loss rate: 0.49%  
-- Flow 1:  
Average throughput: 1.90 Mbit/s  
95th percentile per-packet one-way delay: 58.008 ms  
Loss rate: 7.99%  
-- Flow 2:  
Average throughput: 64.46 Mbit/s  
95th percentile per-packet one-way delay: 19.072 ms  
Loss rate: 0.20%  
-- Flow 3:  
Average throughput: 41.73 Mbit/s  
95th percentile per-packet one-way delay: 19.497 ms  
Loss rate: 0.28%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-02-04 23:46:55

End at: 2018-02-04 23:47:25

Local clock offset: 0.014 ms

Remote clock offset: -9.93 ms

# Below is generated by plot.py at 2018-02-05 00:50:38

# Datalink statistics

-- Total of 3 flows:

Average throughput: 89.16 Mbit/s

95th percentile per-packet one-way delay: 22.625 ms

Loss rate: 0.16%

-- Flow 1:

Average throughput: 55.99 Mbit/s

95th percentile per-packet one-way delay: 20.384 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 35.22 Mbit/s

95th percentile per-packet one-way delay: 25.528 ms

Loss rate: 0.23%

-- Flow 3:

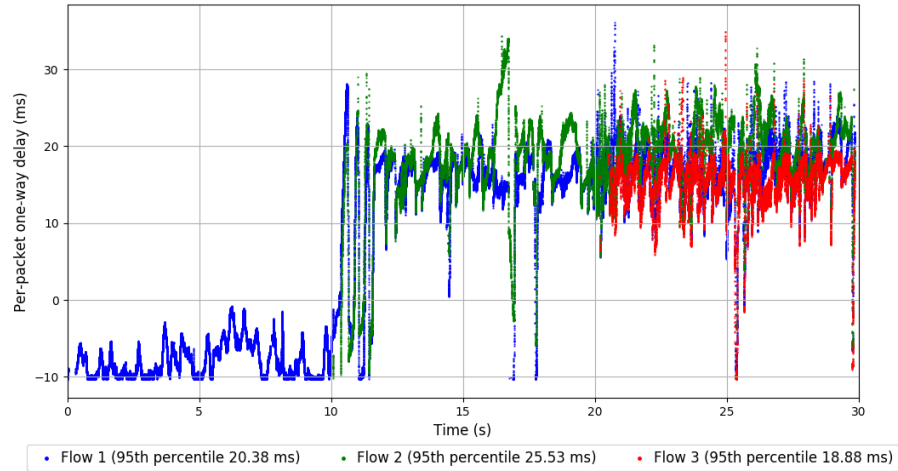
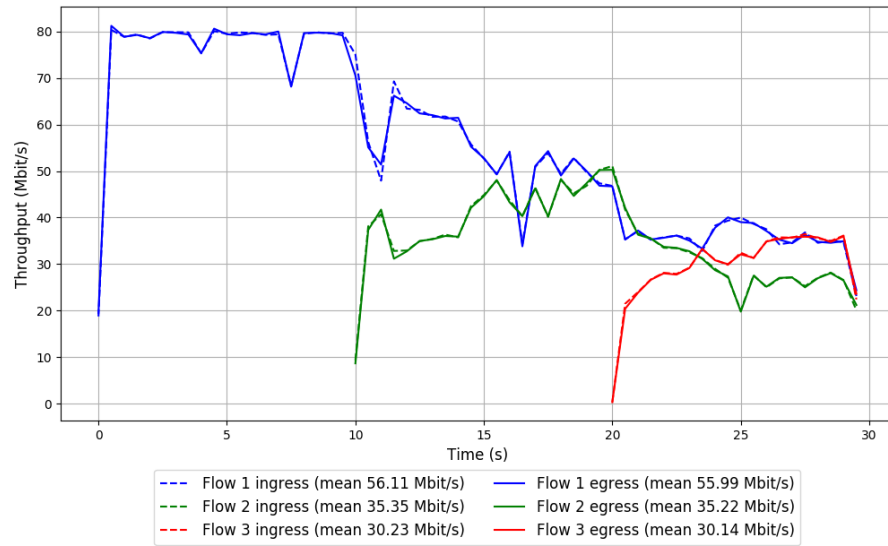
Average throughput: 30.14 Mbit/s

95th percentile per-packet one-way delay: 18.876 ms

Loss rate: 0.27%



# Run 9: Report of QUIC Cubic — Data Link

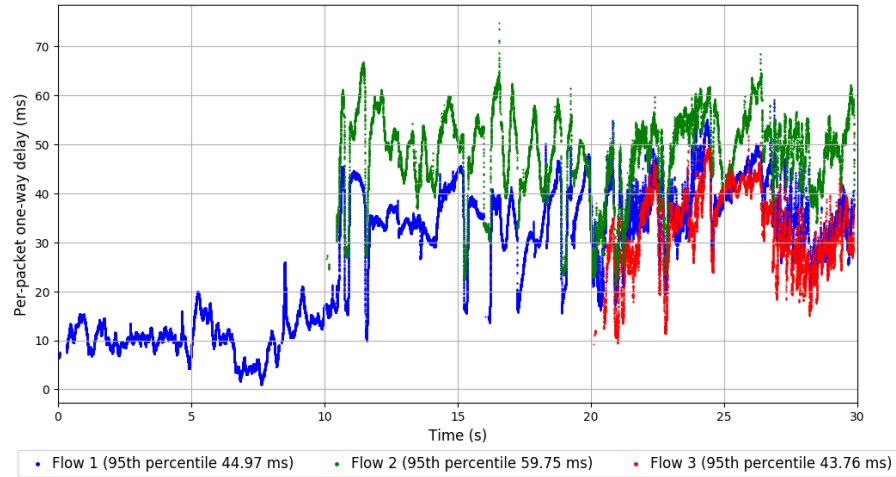
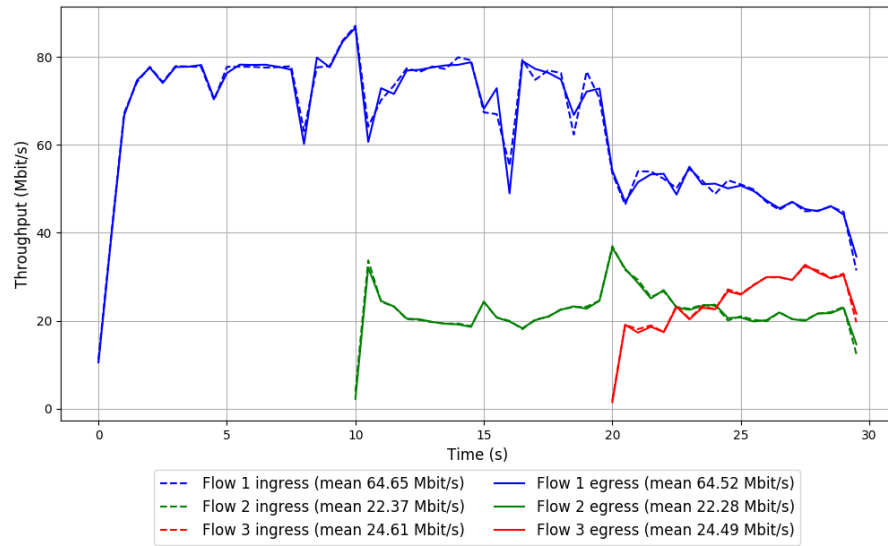


Run 10: Statistics of QUIC Cubic

Start at: 2018-02-05 00:07:45  
End at: 2018-02-05 00:08:15  
Local clock offset: -0.036 ms  
Remote clock offset: -2.207 ms

# Below is generated by plot.py at 2018-02-05 00:51:02  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 87.27 Mbit/s  
95th percentile per-packet one-way delay: 52.874 ms  
Loss rate: 0.16%  
-- Flow 1:  
Average throughput: 64.52 Mbit/s  
95th percentile per-packet one-way delay: 44.972 ms  
Loss rate: 0.10%  
-- Flow 2:  
Average throughput: 22.28 Mbit/s  
95th percentile per-packet one-way delay: 59.748 ms  
Loss rate: 0.33%  
-- Flow 3:  
Average throughput: 24.49 Mbit/s  
95th percentile per-packet one-way delay: 43.761 ms  
Loss rate: 0.29%

# Run 10: Report of QUIC Cubic — Data Link

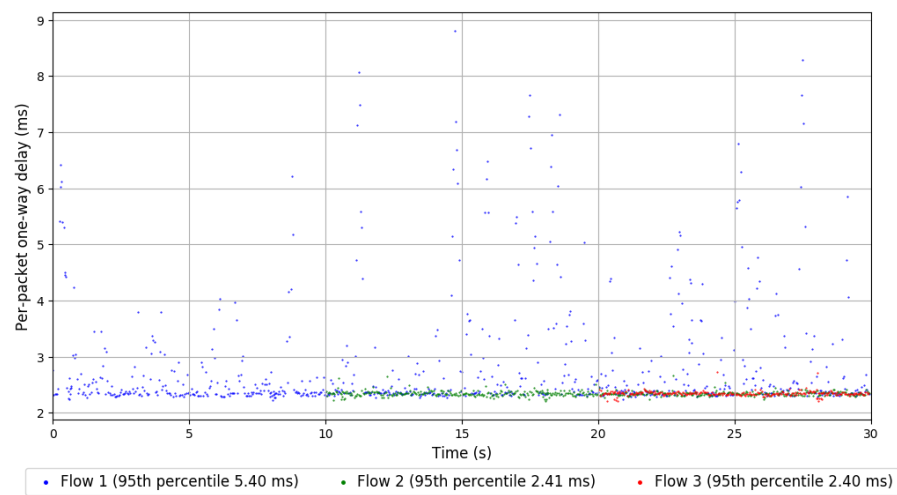
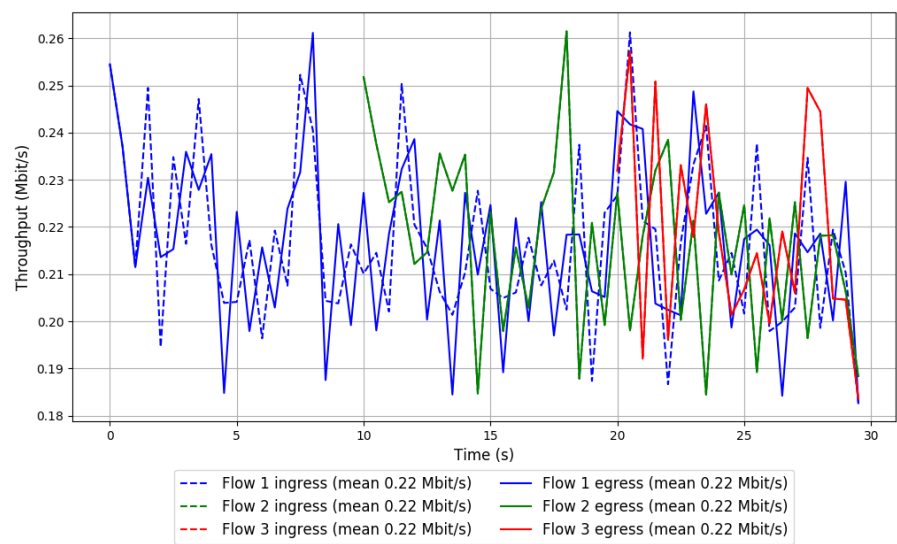


```
Run 1: Statistics of SReAM

Start at: 2018-02-04 20:55:27
End at: 2018-02-04 20:55:57
Local clock offset: 0.065 ms
Remote clock offset: 2.354 ms

# Below is generated by plot.py at 2018-02-05 00:51:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 4.225 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 5.398 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.406 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.404 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

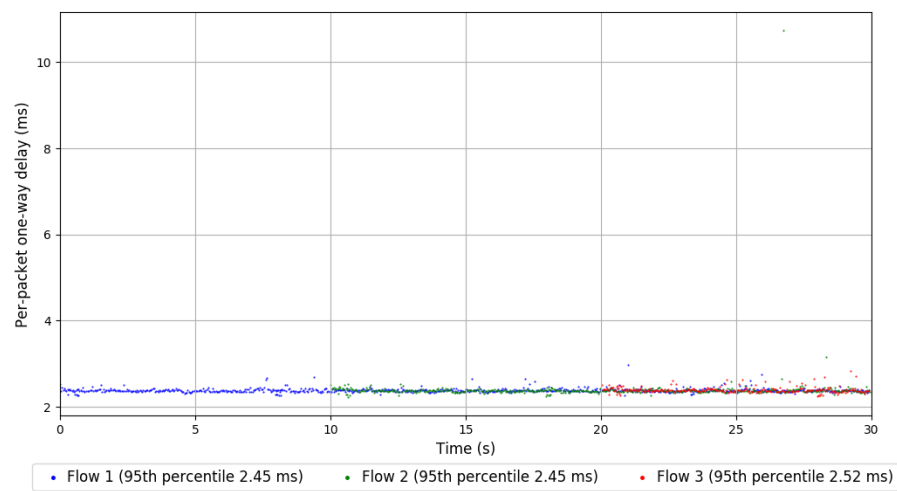
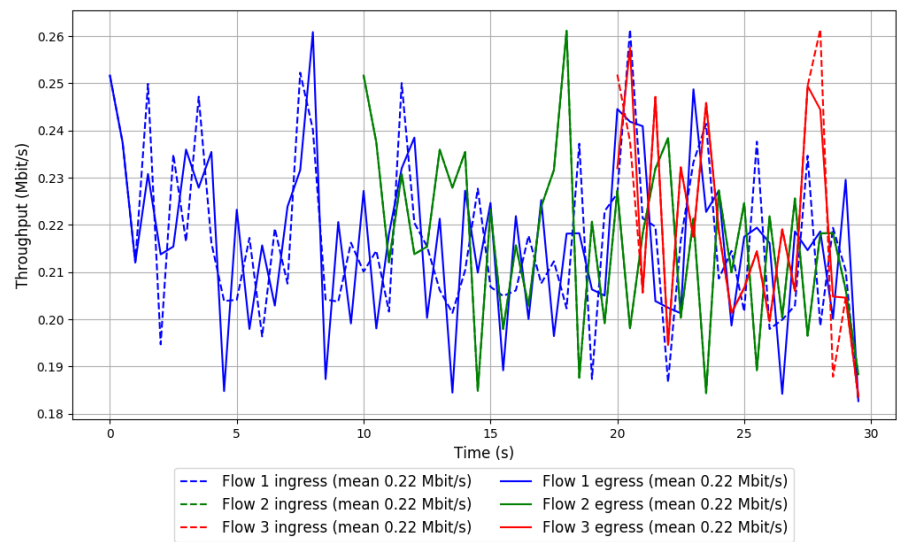


```
Run 2: Statistics of SReAM

Start at: 2018-02-04 21:16:04
End at: 2018-02-04 21:16:34
Local clock offset: 0.055 ms
Remote clock offset: 2.203 ms

# Below is generated by plot.py at 2018-02-05 00:51:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 2.463 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.451 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.450 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.525 ms
Loss rate: 0.00%
```

Run 2: Report of SReAM — Data Link



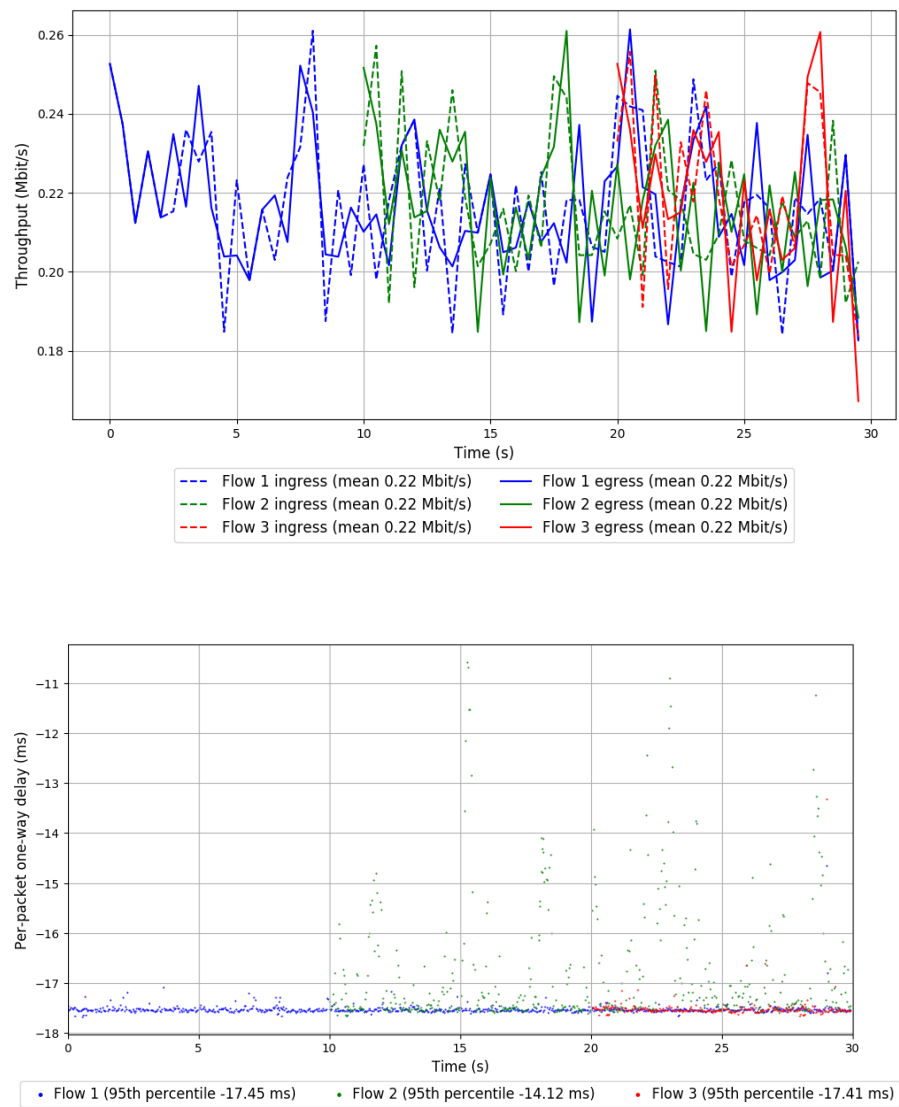
Run 3: Statistics of SReAM

Start at: 2018-02-04 21:36:36  
End at: 2018-02-04 21:37:06  
Local clock offset: -0.04 ms  
Remote clock offset: -17.869 ms

# Below is generated by plot.py at 2018-02-05 00:51:02  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: -15.643 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: -17.449 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: -14.117 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: -17.413 ms  
Loss rate: 0.00%



Run 3: Report of SReAM — Data Link



Run 4: Statistics of SReAM

Start at: 2018-02-04 21:57:03

End at: 2018-02-04 21:57:33

Local clock offset: 0.009 ms

Remote clock offset: 2.524 ms

# Below is generated by plot.py at 2018-02-05 00:51:02

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 10.784 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.409 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 12.330 ms

Loss rate: 0.19%

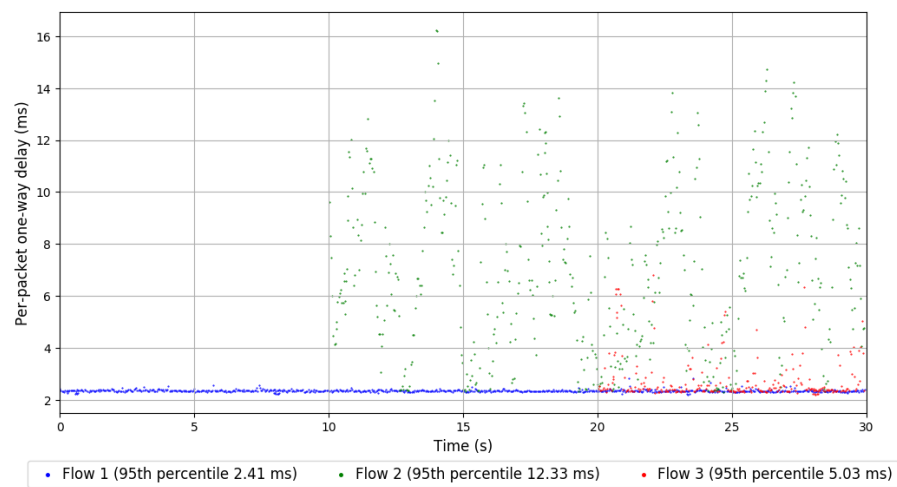
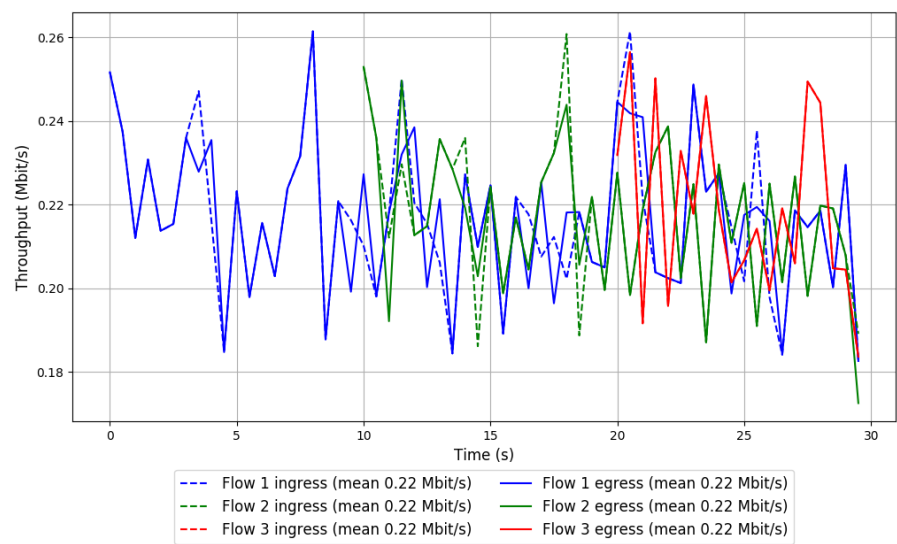
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 5.034 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link

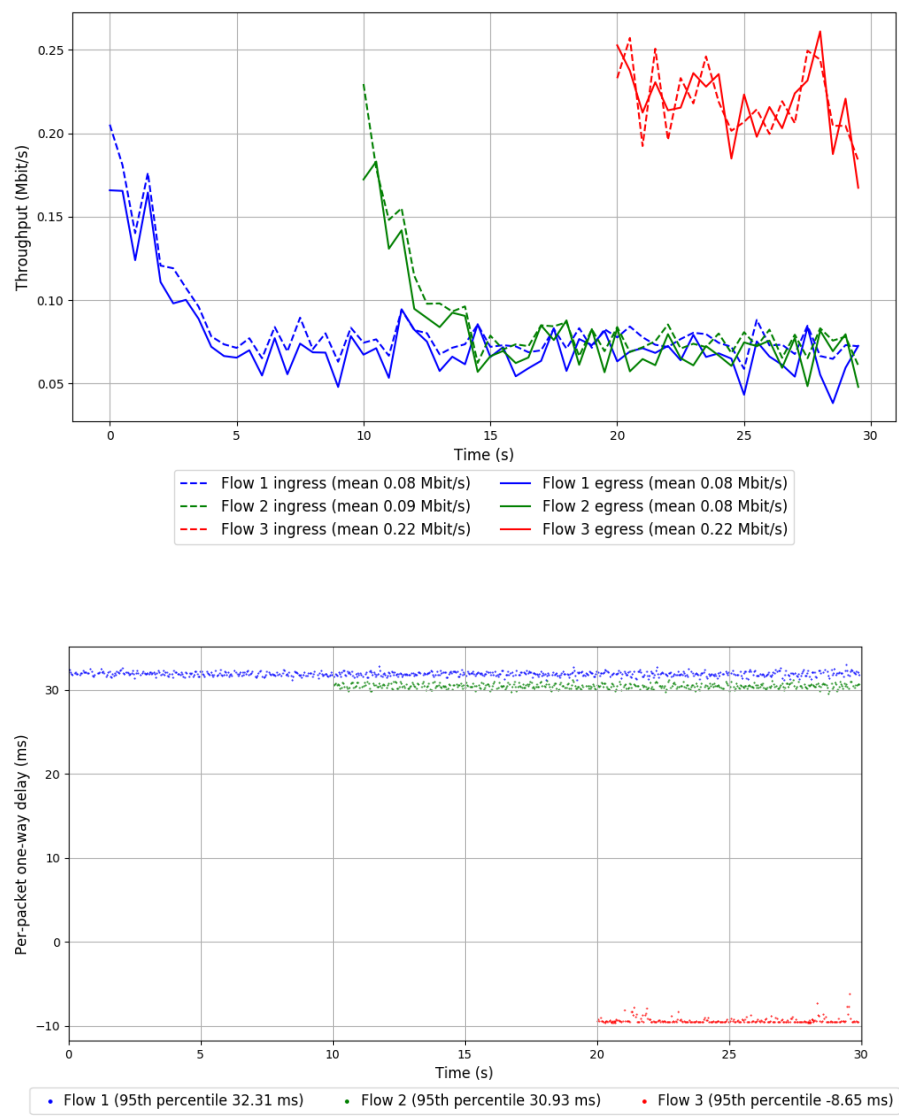


Run 5: Statistics of SCReAM

Start at: 2018-02-04 22:17:27  
End at: 2018-02-04 22:17:57  
Local clock offset: 0.022 ms  
Remote clock offset: -8.706 ms

# Below is generated by plot.py at 2018-02-05 00:51:02  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.20 Mbit/s  
95th percentile per-packet one-way delay: 32.230 ms  
Loss rate: 6.74%  
-- Flow 1:  
Average throughput: 0.08 Mbit/s  
95th percentile per-packet one-way delay: 32.312 ms  
Loss rate: 10.78%  
-- Flow 2:  
Average throughput: 0.08 Mbit/s  
95th percentile per-packet one-way delay: 30.930 ms  
Loss rate: 9.31%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: -8.649 ms  
Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SReAM

Start at: 2018-02-04 22:38:03

End at: 2018-02-04 22:38:33

Local clock offset: 0.011 ms

Remote clock offset: 0.668 ms

# Below is generated by plot.py at 2018-02-05 00:51:02

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.34 Mbit/s

95th percentile per-packet one-way delay: 41.687 ms

Loss rate: 1.89%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 0.049 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.07 Mbit/s

95th percentile per-packet one-way delay: 41.863 ms

Loss rate: 11.79%

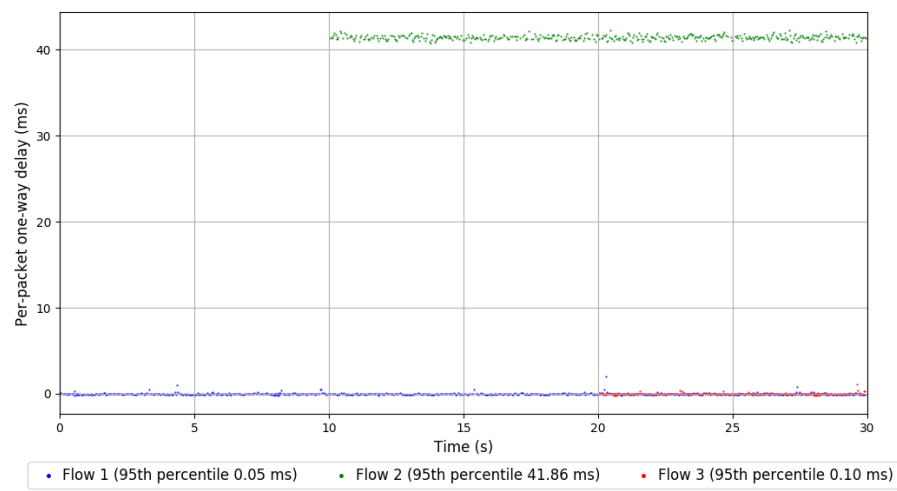
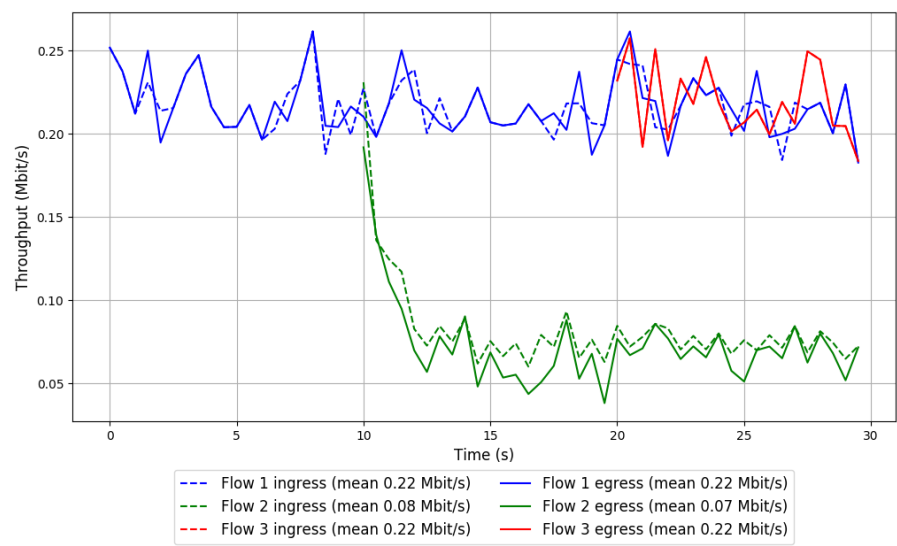
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 0.096 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link



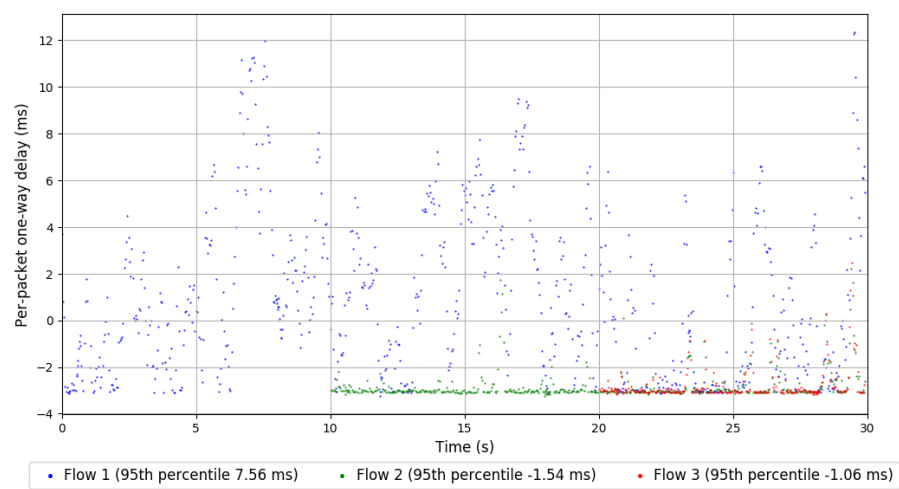
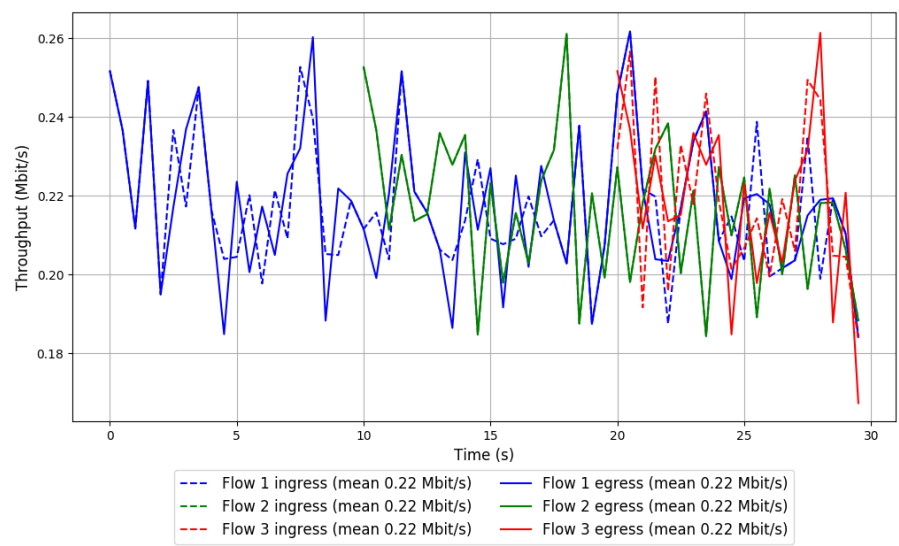
Run 7: Statistics of SReAM

Start at: 2018-02-04 22:58:38  
End at: 2018-02-04 22:59:08  
Local clock offset: -0.003 ms  
Remote clock offset: -2.645 ms

# Below is generated by plot.py at 2018-02-05 00:51:02  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.44 Mbit/s  
95th percentile per-packet one-way delay: 5.776 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 7.559 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: -1.539 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: -1.064 ms  
Loss rate: 0.00%



Run 7: Report of SReAM — Data Link

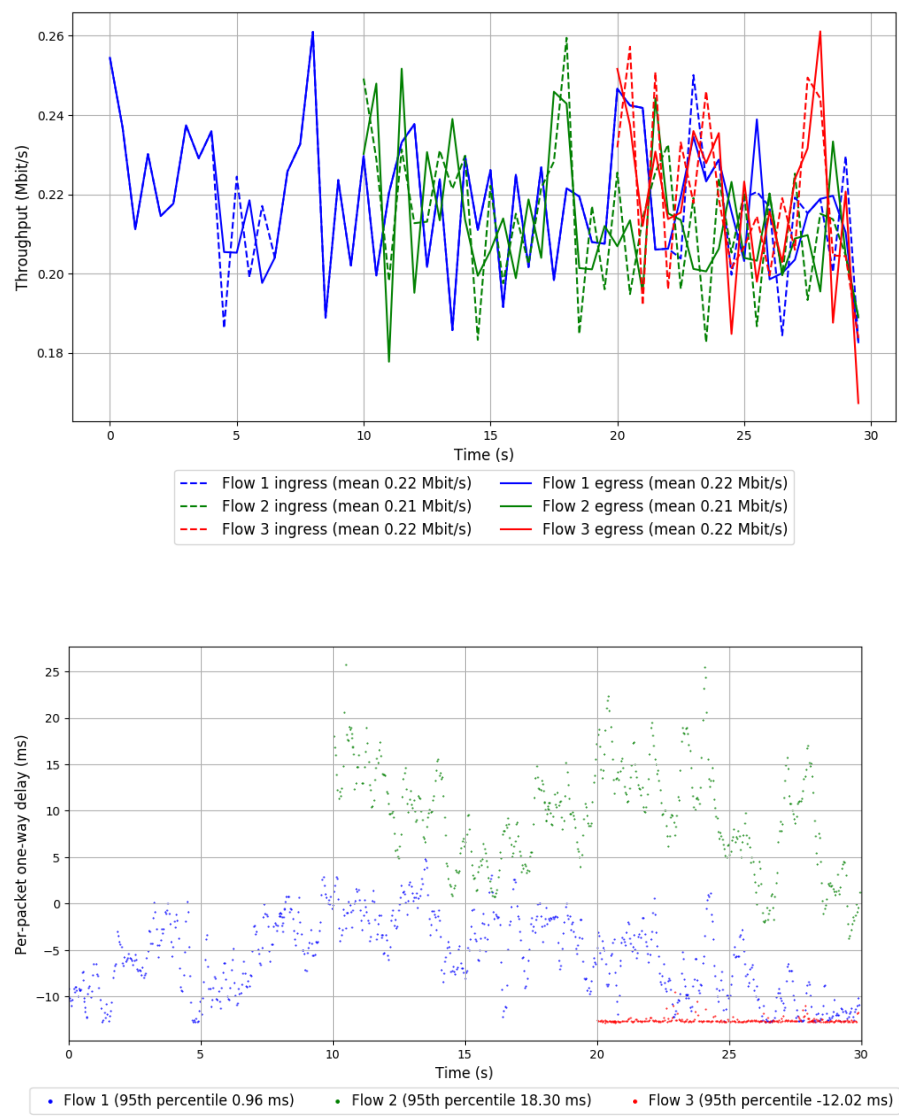


Run 8: Statistics of SReAM

Start at: 2018-02-04 23:19:16  
End at: 2018-02-04 23:19:46  
Local clock offset: -0.023 ms  
Remote clock offset: -12.438 ms

# Below is generated by plot.py at 2018-02-05 00:51:02  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 14.942 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 0.961 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 18.305 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: -12.019 ms  
Loss rate: 0.00%

Run 8: Report of SReAM — Data Link

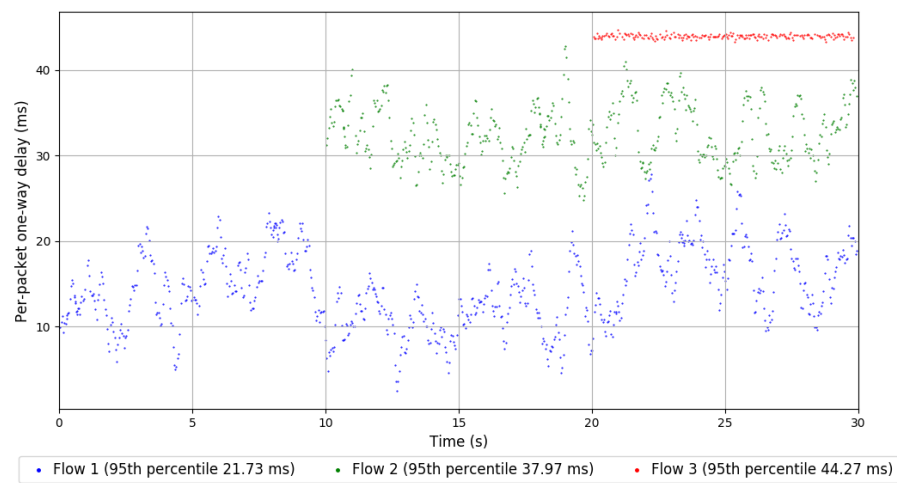
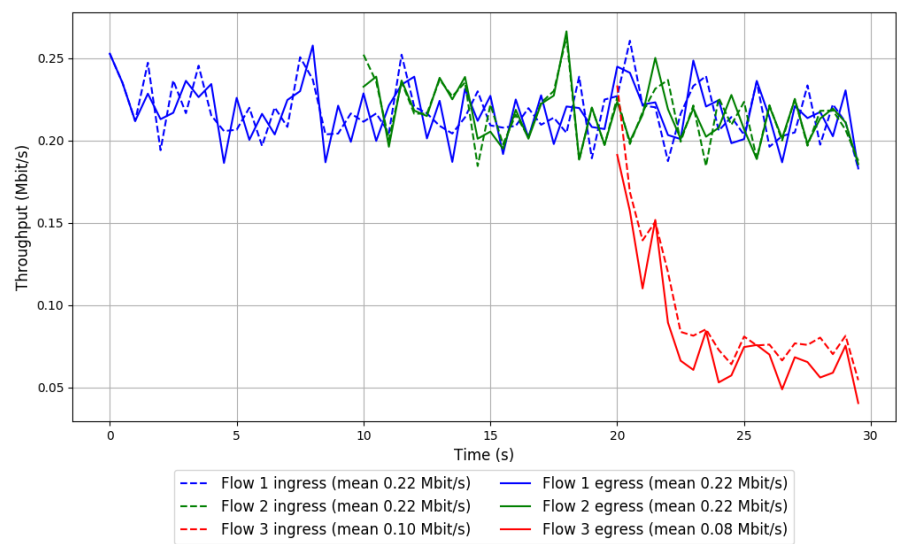


Run 9: Statistics of SReAM

Start at: 2018-02-04 23:40:00  
End at: 2018-02-04 23:40:30  
Local clock offset: -0.073 ms  
Remote clock offset: 2.621 ms

# Below is generated by plot.py at 2018-02-05 00:51:02  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.39 Mbit/s  
95th percentile per-packet one-way delay: 44.061 ms  
Loss rate: 1.27%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 21.735 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 37.965 ms  
Loss rate: 0.19%  
-- Flow 3:  
Average throughput: 0.08 Mbit/s  
95th percentile per-packet one-way delay: 44.266 ms  
Loss rate: 14.58%

Run 9: Report of SCReAM — Data Link

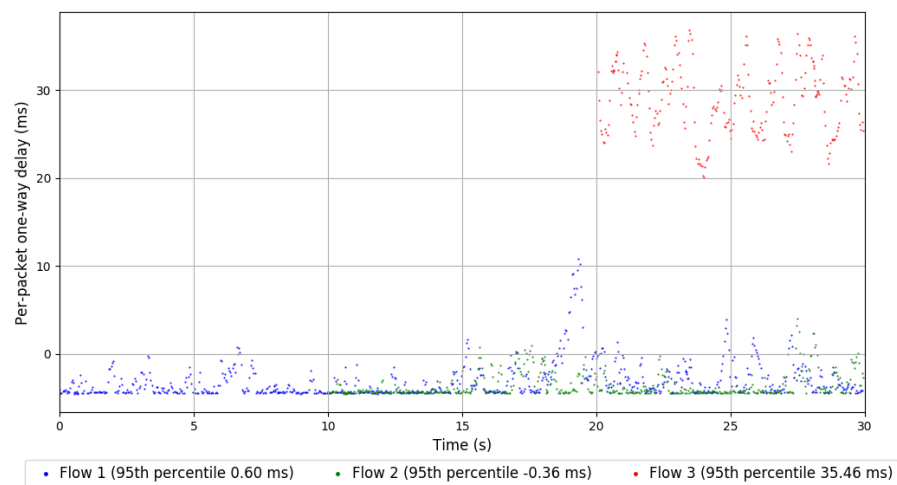
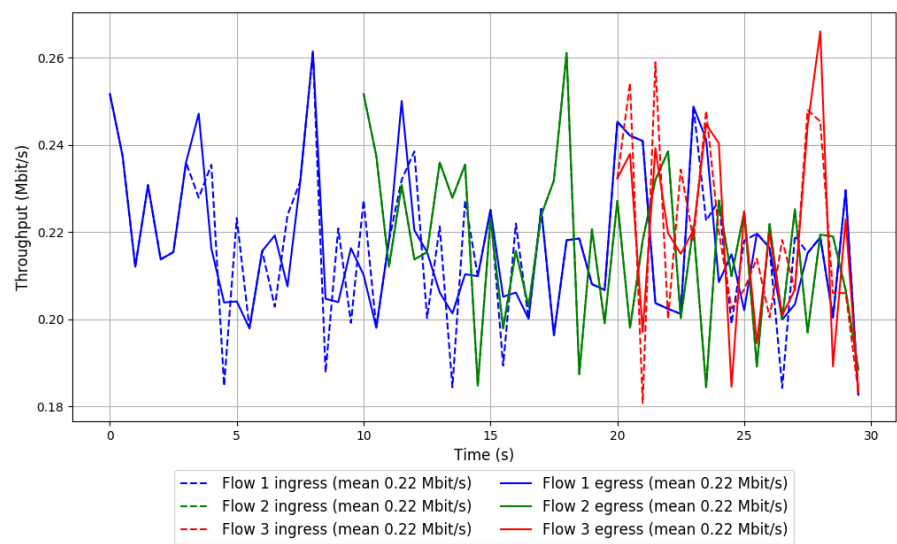


Run 10: Statistics of SReAM

Start at: 2018-02-05 00:00:51  
End at: 2018-02-05 00:01:21  
Local clock offset: -0.002 ms  
Remote clock offset: -4.295 ms

# Below is generated by plot.py at 2018-02-05 00:51:02  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.44 Mbit/s  
95th percentile per-packet one-way delay: 31.280 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 0.602 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: -0.357 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 35.458 ms  
Loss rate: 0.00%

Run 10: Report of SCRaM — Data Link



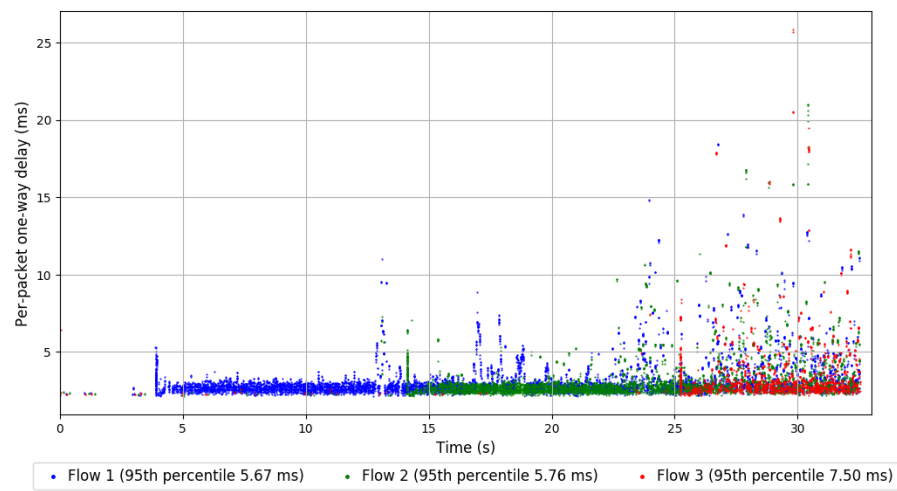
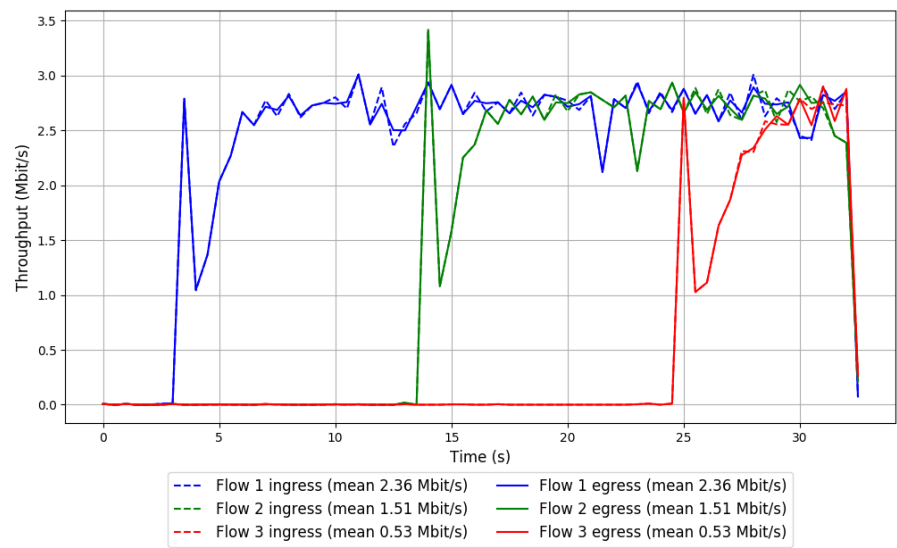
```
Run 1: Statistics of WebRTC media

Start at: 2018-02-04 20:49:54
End at: 2018-02-04 20:50:24
Local clock offset: 0.047 ms
Remote clock offset: 2.354 ms

# Below is generated by plot.py at 2018-02-05 00:51:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.40 Mbit/s
95th percentile per-packet one-way delay: 5.957 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.36 Mbit/s
95th percentile per-packet one-way delay: 5.672 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.51 Mbit/s
95th percentile per-packet one-way delay: 5.760 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.53 Mbit/s
95th percentile per-packet one-way delay: 7.501 ms
Loss rate: 0.00%
```



Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-02-04 21:10:29

End at: 2018-02-04 21:10:59

Local clock offset: 0.059 ms

Remote clock offset: 2.203 ms

# Below is generated by plot.py at 2018-02-05 00:51:02

# Datalink statistics

-- Total of 3 flows:

Average throughput: 4.42 Mbit/s

95th percentile per-packet one-way delay: 6.538 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.36 Mbit/s

95th percentile per-packet one-way delay: 5.718 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.50 Mbit/s

95th percentile per-packet one-way delay: 6.451 ms

Loss rate: 0.00%

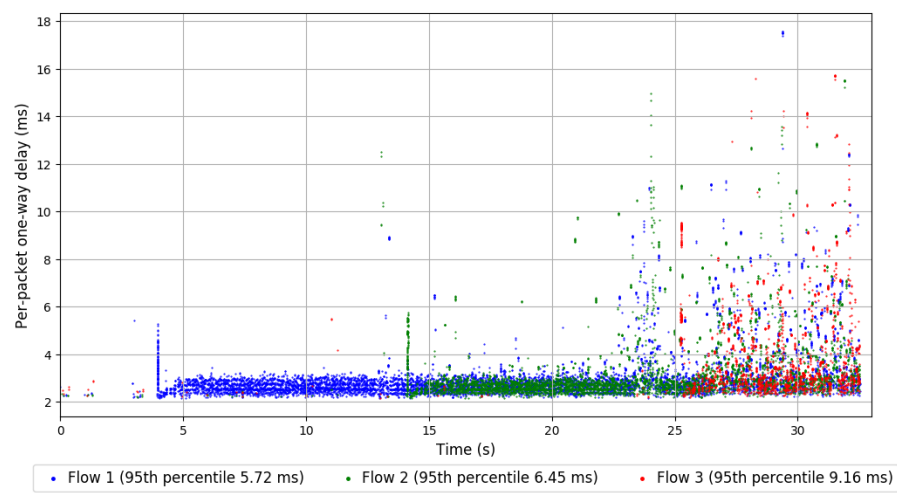
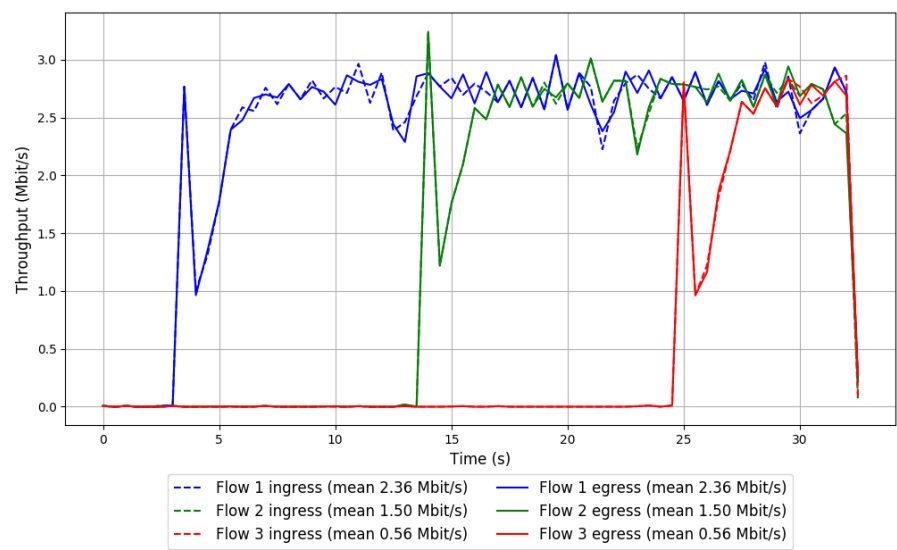
-- Flow 3:

Average throughput: 0.56 Mbit/s

95th percentile per-packet one-way delay: 9.160 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link

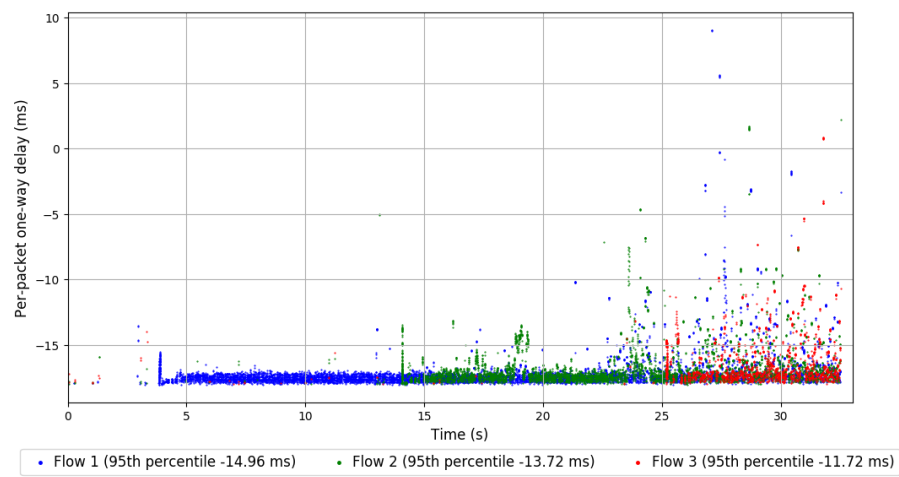
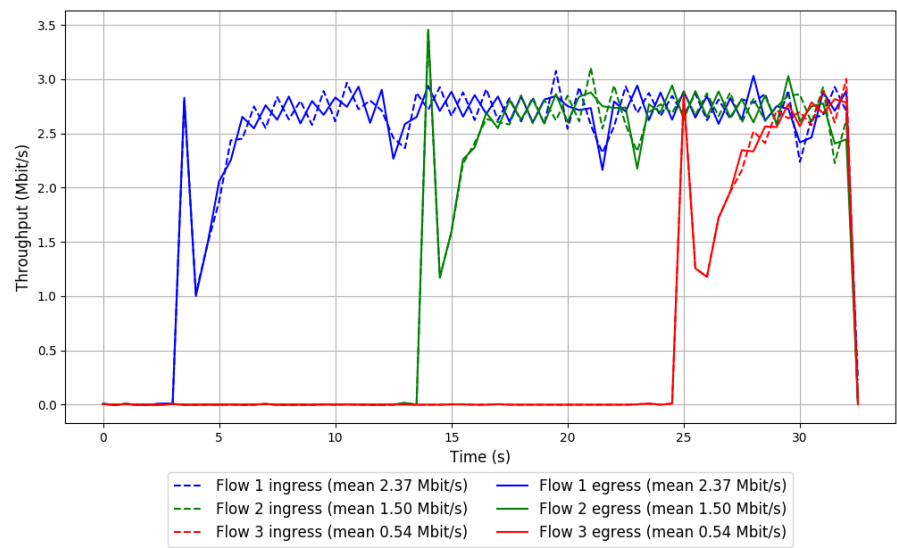


Run 3: Statistics of WebRTC media

Start at: 2018-02-04 21:31:00  
End at: 2018-02-04 21:31:30  
Local clock offset: -0.02 ms  
Remote clock offset: -18.105 ms

# Below is generated by plot.py at 2018-02-05 00:51:02  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 4.40 Mbit/s  
95th percentile per-packet one-way delay: -13.789 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 2.37 Mbit/s  
95th percentile per-packet one-way delay: -14.958 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 1.50 Mbit/s  
95th percentile per-packet one-way delay: -13.724 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.54 Mbit/s  
95th percentile per-packet one-way delay: -11.723 ms  
Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-02-04 21:51:29

End at: 2018-02-04 21:51:59

Local clock offset: 0.018 ms

Remote clock offset: 2.157 ms

# Below is generated by plot.py at 2018-02-05 00:51:02

# Datalink statistics

-- Total of 3 flows:

Average throughput: 4.38 Mbit/s

95th percentile per-packet one-way delay: 31.772 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 2.36 Mbit/s

95th percentile per-packet one-way delay: 6.115 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.48 Mbit/s

95th percentile per-packet one-way delay: 6.106 ms

Loss rate: 0.12%

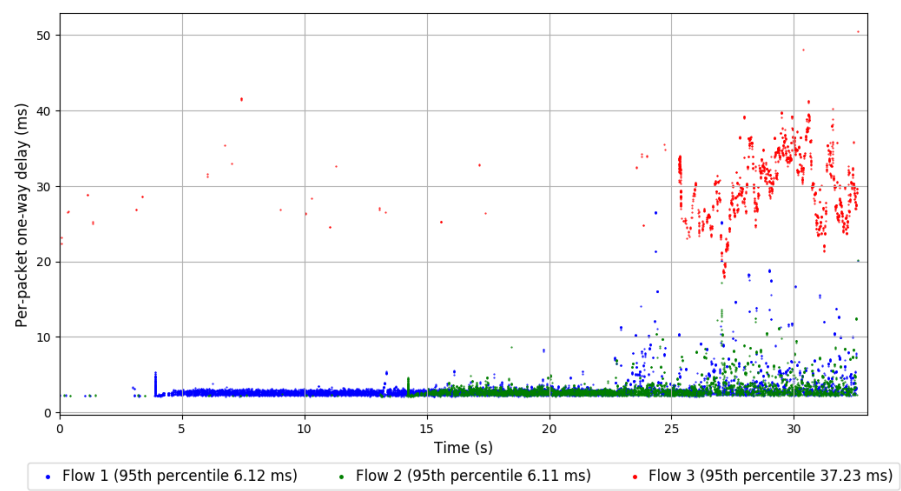
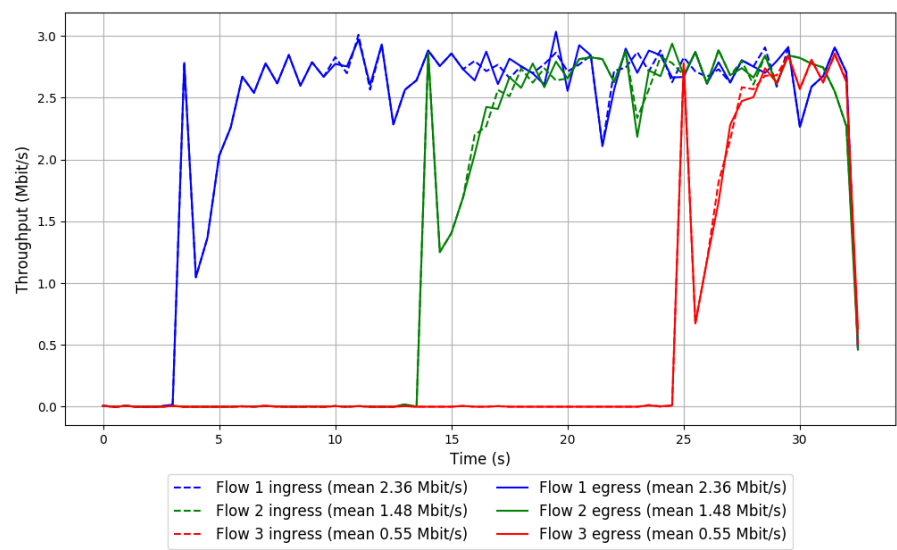
-- Flow 3:

Average throughput: 0.55 Mbit/s

95th percentile per-packet one-way delay: 37.232 ms

Loss rate: 0.21%

Run 4: Report of WebRTC media — Data Link



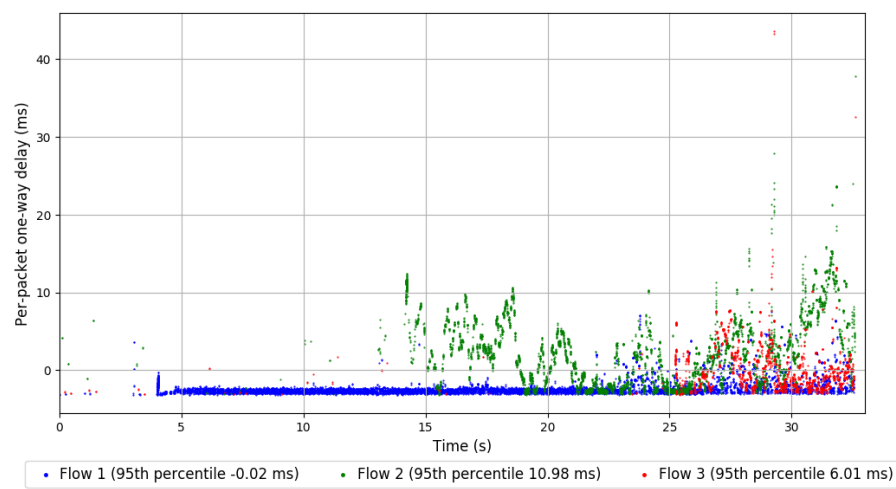
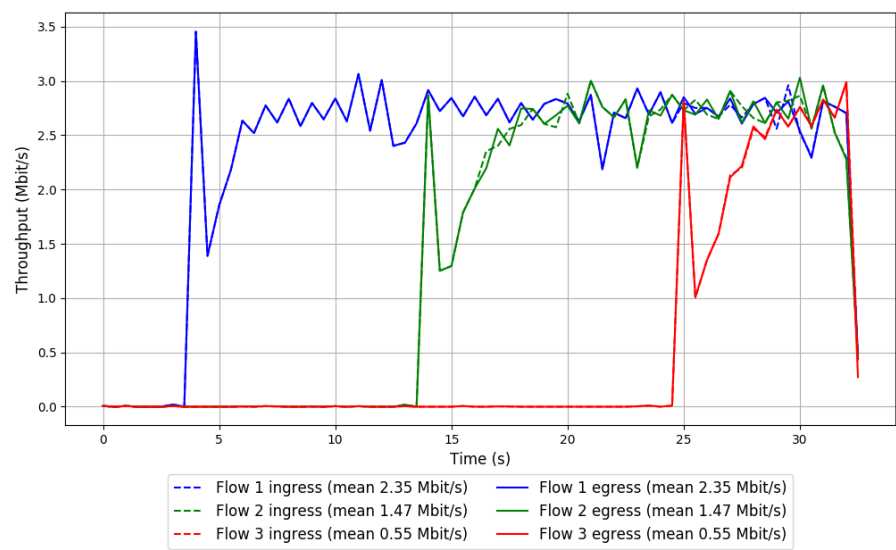
Run 5: Statistics of WebRTC media

Start at: 2018-02-04 22:11:52  
End at: 2018-02-04 22:12:22  
Local clock offset: 0.043 ms  
Remote clock offset: -2.181 ms

# Below is generated by plot.py at 2018-02-05 00:51:02  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 4.36 Mbit/s  
95th percentile per-packet one-way delay: 7.559 ms  
Loss rate: 0.06%  
-- Flow 1:  
Average throughput: 2.35 Mbit/s  
95th percentile per-packet one-way delay: -0.018 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 1.47 Mbit/s  
95th percentile per-packet one-way delay: 10.985 ms  
Loss rate: 0.02%  
-- Flow 3:  
Average throughput: 0.55 Mbit/s  
95th percentile per-packet one-way delay: 6.015 ms  
Loss rate: 0.43%



Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-02-04 22:32:26

End at: 2018-02-04 22:32:56

Local clock offset: -0.0 ms

Remote clock offset: 3.15 ms

# Below is generated by plot.py at 2018-02-05 00:51:02

# Datalink statistics

-- Total of 3 flows:

Average throughput: 4.42 Mbit/s

95th percentile per-packet one-way delay: 16.933 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.36 Mbit/s

95th percentile per-packet one-way delay: 5.536 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.50 Mbit/s

95th percentile per-packet one-way delay: 5.828 ms

Loss rate: 0.00%

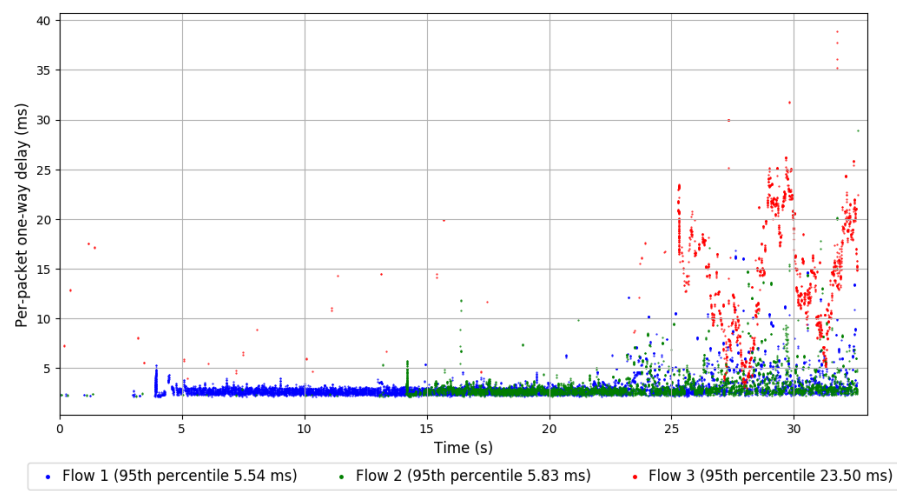
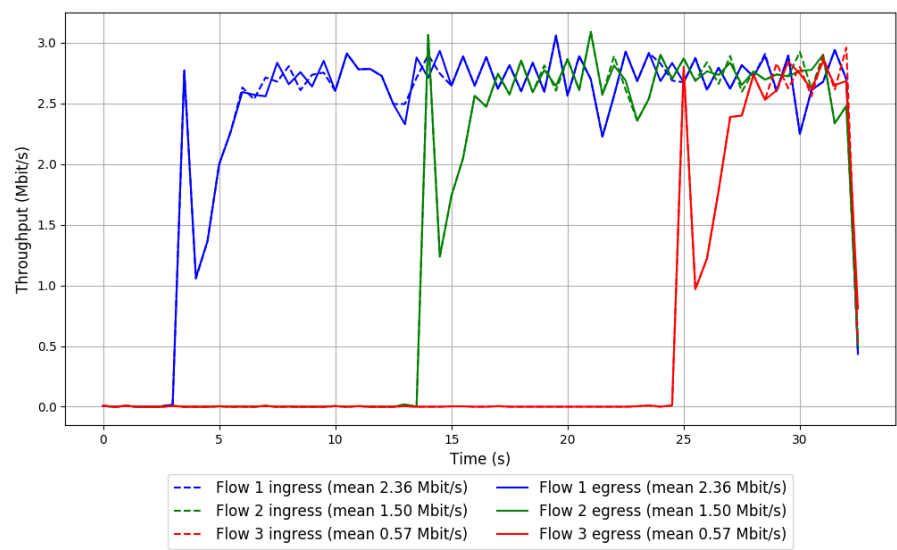
-- Flow 3:

Average throughput: 0.57 Mbit/s

95th percentile per-packet one-way delay: 23.502 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link

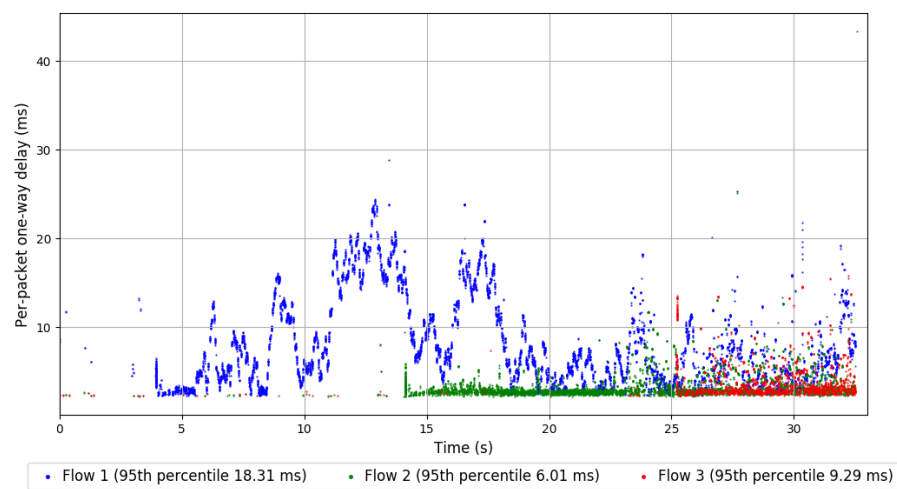
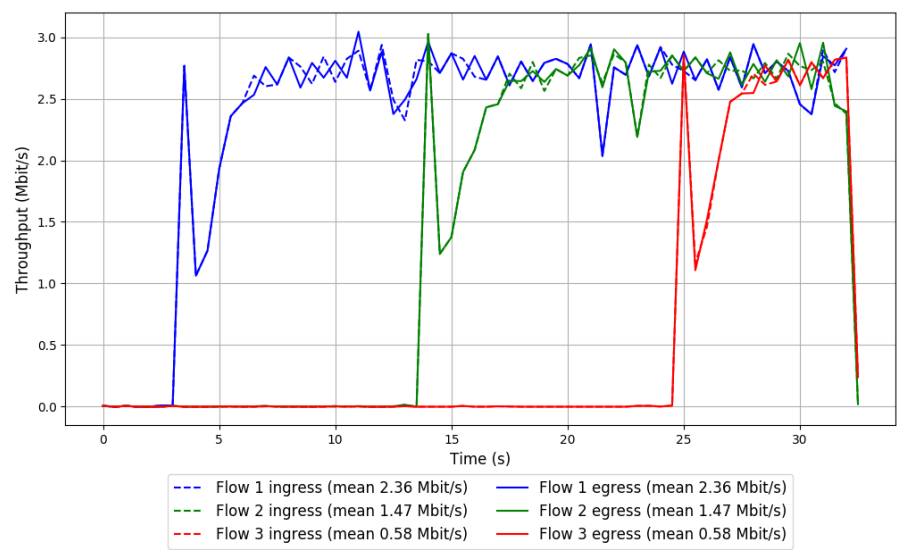


Run 7: Statistics of WebRTC media

Start at: 2018-02-04 22:53:03  
End at: 2018-02-04 22:53:33  
Local clock offset: -0.026 ms  
Remote clock offset: 2.874 ms

# Below is generated by plot.py at 2018-02-05 00:51:02  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 4.40 Mbit/s  
95th percentile per-packet one-way delay: 16.347 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 2.36 Mbit/s  
95th percentile per-packet one-way delay: 18.309 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 1.47 Mbit/s  
95th percentile per-packet one-way delay: 6.006 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.58 Mbit/s  
95th percentile per-packet one-way delay: 9.286 ms  
Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-02-04 23:13:36

End at: 2018-02-04 23:14:06

Local clock offset: 0.005 ms

Remote clock offset: 2.655 ms

# Below is generated by plot.py at 2018-02-05 00:51:02

# Datalink statistics

-- Total of 3 flows:

Average throughput: 4.35 Mbit/s

95th percentile per-packet one-way delay: 37.003 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.34 Mbit/s

95th percentile per-packet one-way delay: 5.667 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.49 Mbit/s

95th percentile per-packet one-way delay: 6.042 ms

Loss rate: 0.00%

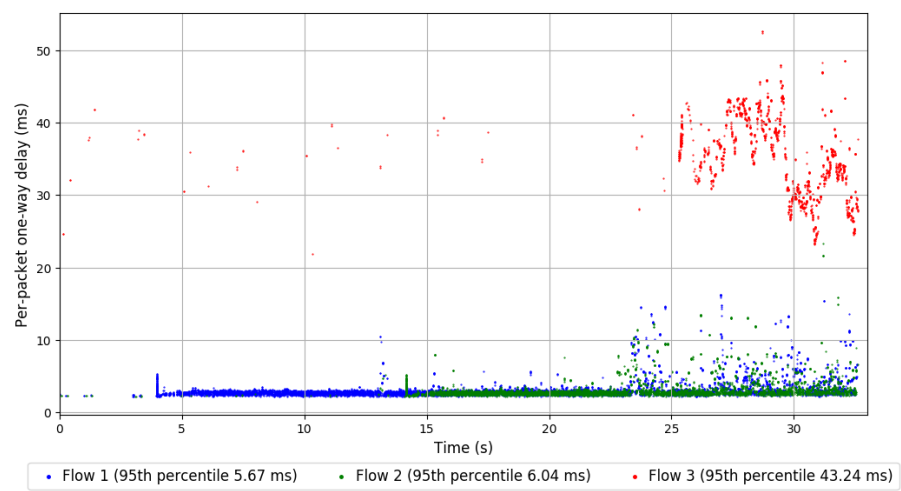
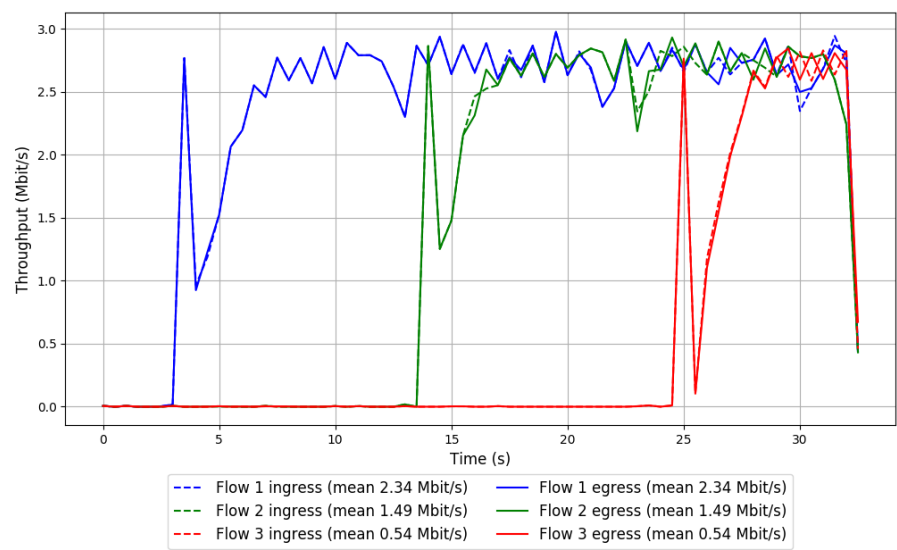
-- Flow 3:

Average throughput: 0.54 Mbit/s

95th percentile per-packet one-way delay: 43.241 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-02-04 23:34:20

End at: 2018-02-04 23:34:50

Local clock offset: -0.0 ms

Remote clock offset: 2.649 ms

# Below is generated by plot.py at 2018-02-05 00:51:02

# Datalink statistics

-- Total of 3 flows:

Average throughput: 4.86 Mbit/s

95th percentile per-packet one-way delay: 41.269 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 2.49 Mbit/s

95th percentile per-packet one-way delay: 38.984 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 1.83 Mbit/s

95th percentile per-packet one-way delay: 42.629 ms

Loss rate: 0.14%

-- Flow 3:

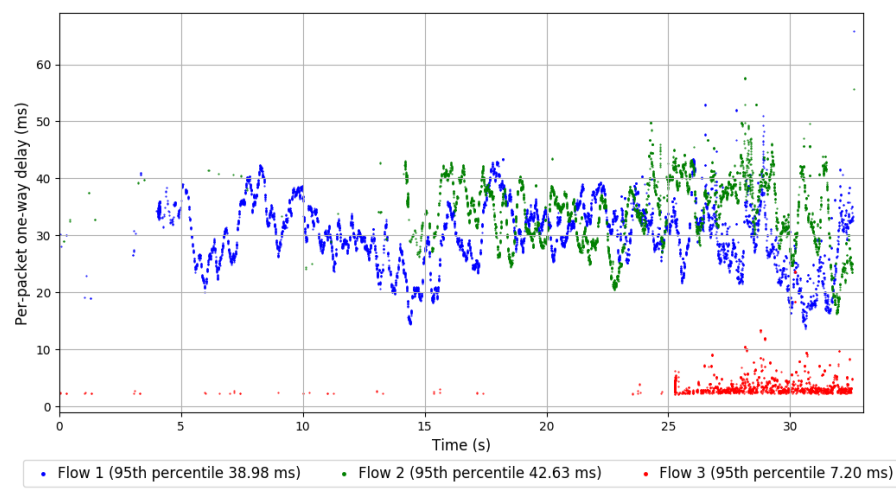
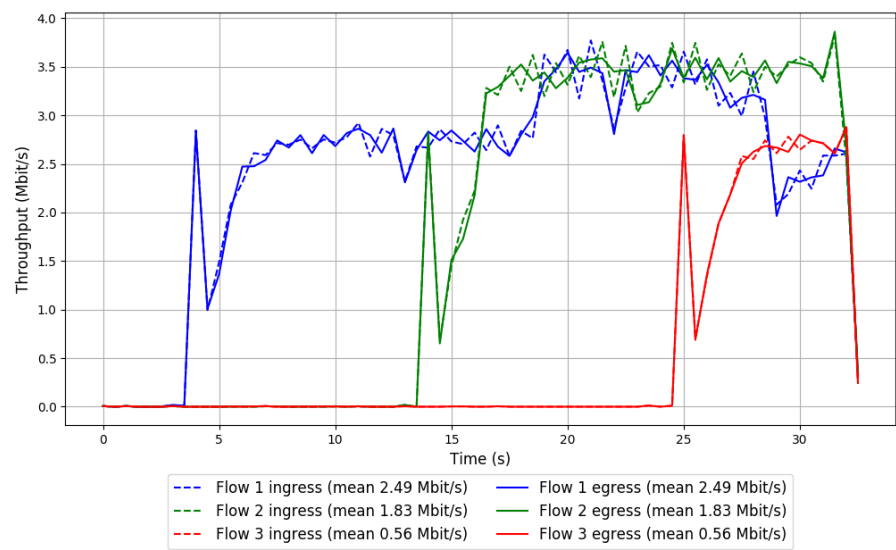
Average throughput: 0.56 Mbit/s

95th percentile per-packet one-way delay: 7.200 ms

Loss rate: 0.00%



Run 9: Report of WebRTC media — Data Link

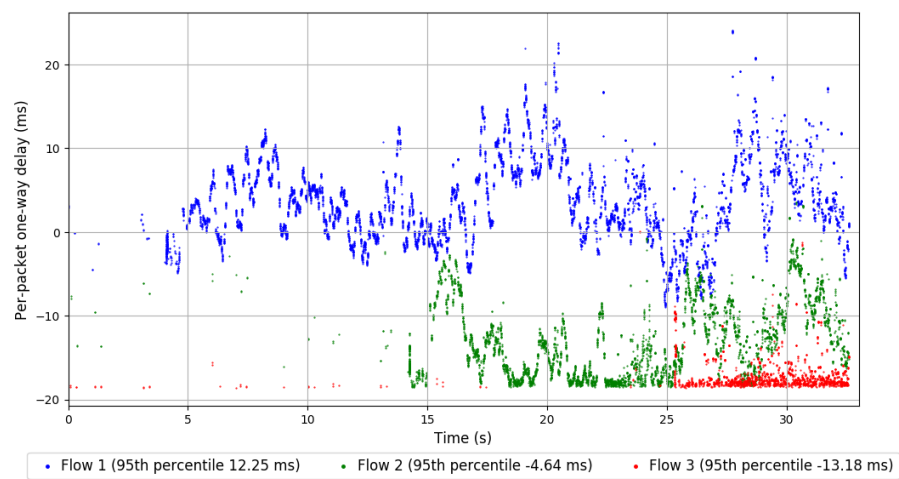
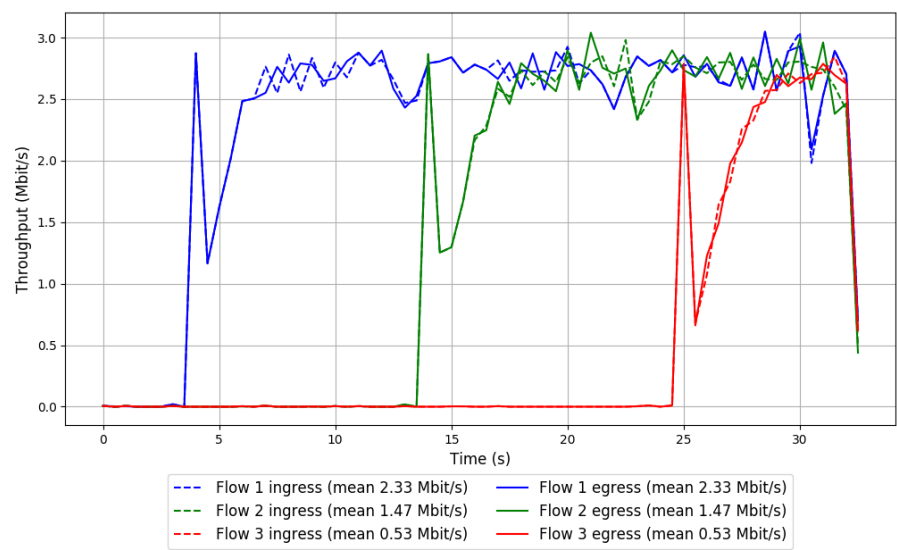


Run 10: Statistics of WebRTC media

Start at: 2018-02-04 23:55:10  
End at: 2018-02-04 23:55:40  
Local clock offset: -0.016 ms  
Remote clock offset: -18.081 ms

# Below is generated by plot.py at 2018-02-05 00:51:02  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 4.33 Mbit/s  
95th percentile per-packet one-way delay: 10.635 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 2.33 Mbit/s  
95th percentile per-packet one-way delay: 12.251 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 1.47 Mbit/s  
95th percentile per-packet one-way delay: -4.637 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.53 Mbit/s  
95th percentile per-packet one-way delay: -13.180 ms  
Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2018-02-04 20:52:05

End at: 2018-02-04 20:52:35

Local clock offset: -0.017 ms

Remote clock offset: 2.27 ms

# Below is generated by plot.py at 2018-02-05 00:51:09

# Datalink statistics

-- Total of 3 flows:

Average throughput: 59.66 Mbit/s

95th percentile per-packet one-way delay: 46.531 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 16.99 Mbit/s

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

Loss rate: 0.15%

-- Flow 2:

Average throughput: 44.65 Mbit/s

95th percentile per-packet one-way delay: 17.792 ms

Loss rate: 0.00%

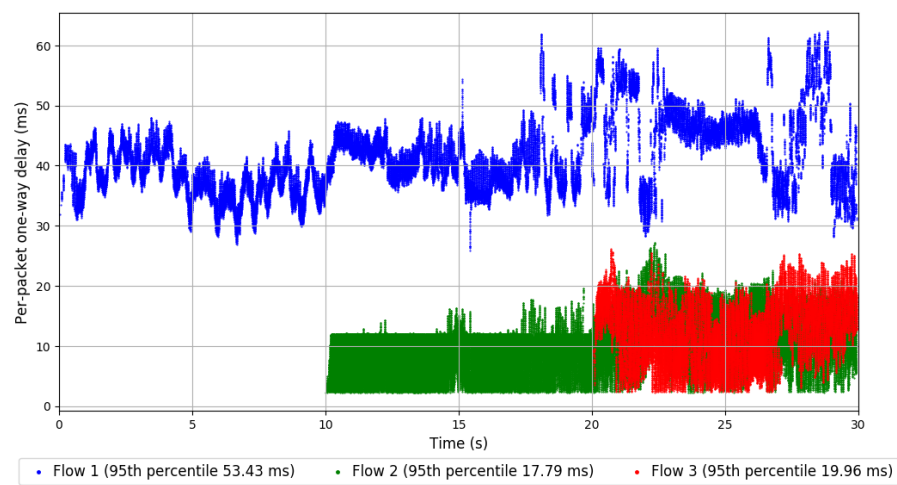
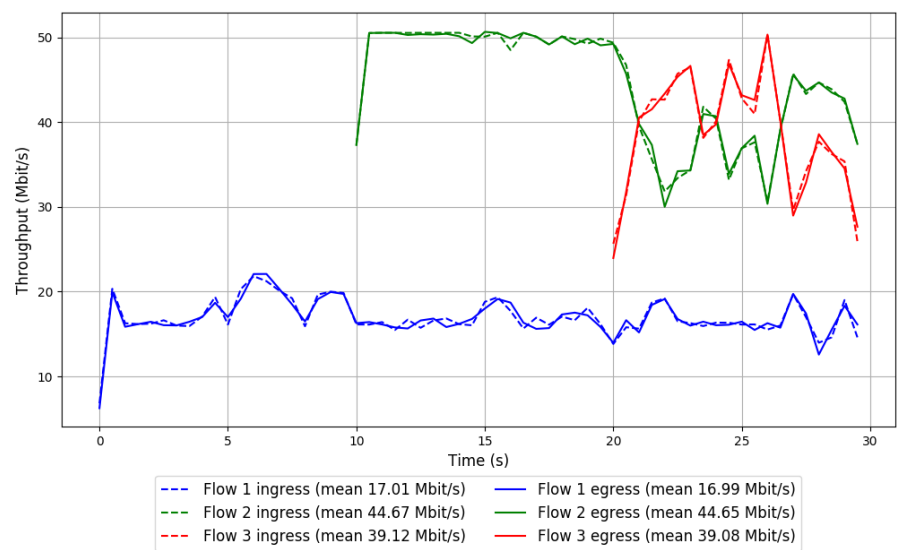
-- Flow 3:

Average throughput: 39.08 Mbit/s

95th percentile per-packet one-way delay: 19.959 ms

Loss rate: 0.00%

Run 1: Report of Sprout — Data Link



## Run 2: Statistics of Sprout

Start at: 2018-02-04 21:12:42

End at: 2018-02-04 21:13:12

Local clock offset: 0.066 ms

Remote clock offset: 2.223 ms

# Below is generated by plot.py at 2018-02-05 00:51:09

# Datalink statistics

-- Total of 3 flows:

Average throughput: 56.19 Mbit/s

95th percentile per-packet one-way delay: 51.178 ms

Loss rate: 2.04%

-- Flow 1:

Average throughput: 13.83 Mbit/s

95th percentile per-packet one-way delay: 58.251 ms

Loss rate: 7.73%

-- Flow 2:

Average throughput: 46.00 Mbit/s

95th percentile per-packet one-way delay: 17.354 ms

Loss rate: 0.00%

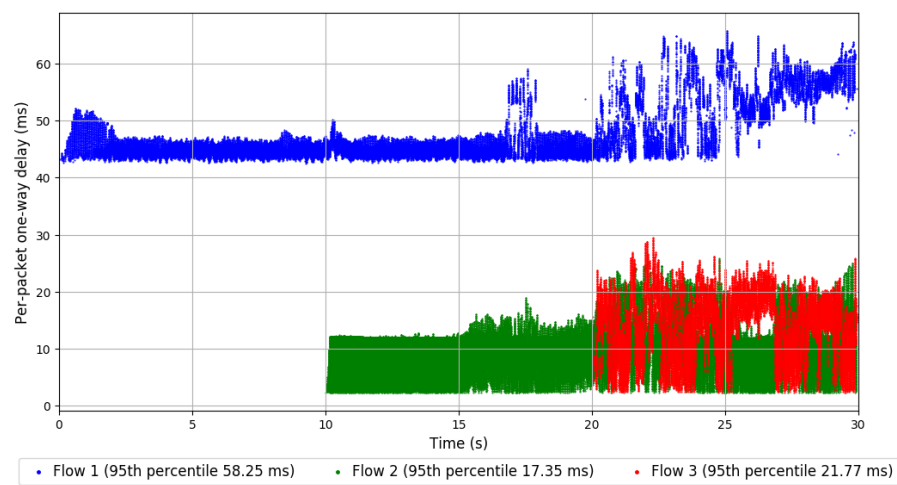
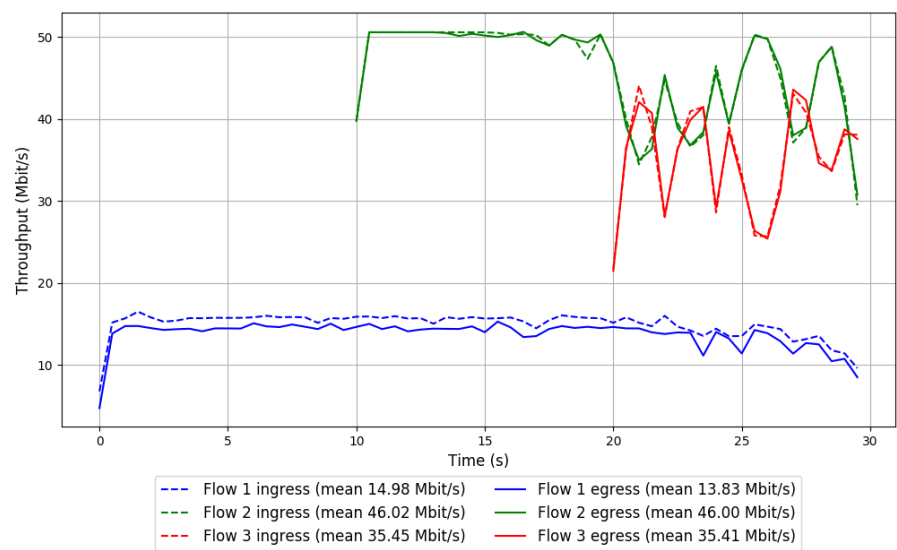
-- Flow 3:

Average throughput: 35.41 Mbit/s

95th percentile per-packet one-way delay: 21.765 ms

Loss rate: 0.07%

Run 2: Report of Sprout — Data Link



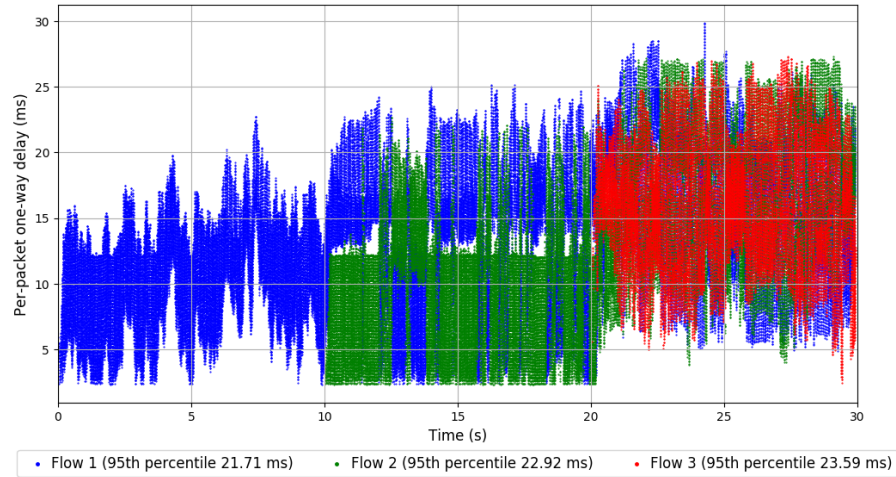
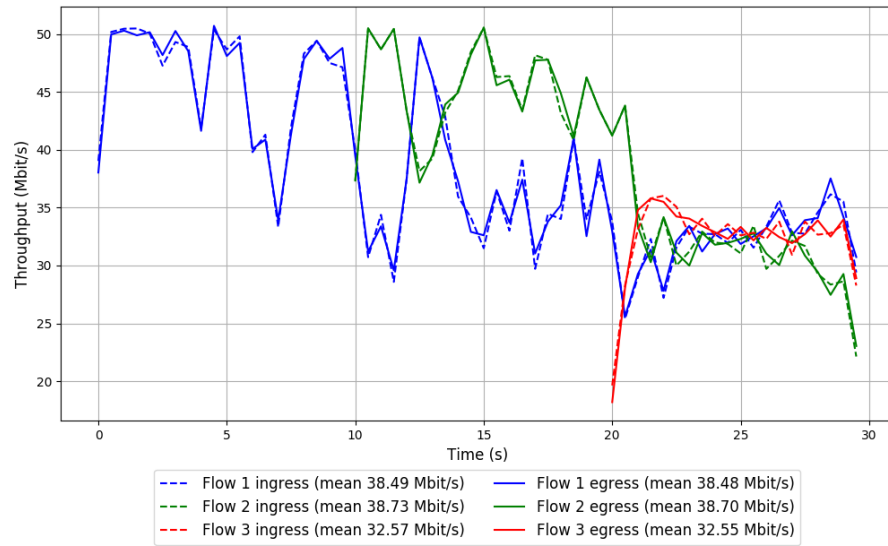
### Run 3: Statistics of Sprout

Start at: 2018-02-04 21:33:13  
End at: 2018-02-04 21:33:43  
Local clock offset: 0.031 ms  
Remote clock offset: 2.171 ms

```
# Below is generated by plot.py at 2018-02-05 00:51:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 74.97 Mbit/s
95th percentile per-packet one-way delay: 22.417 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 38.48 Mbit/s
95th percentile per-packet one-way delay: 21.715 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 38.70 Mbit/s
95th percentile per-packet one-way delay: 22.920 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 32.55 Mbit/s
95th percentile per-packet one-way delay: 23.590 ms
Loss rate: 0.00%
```



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



#### Run 4: Statistics of Sprout

Start at: 2018-02-04 21:53:42

End at: 2018-02-04 21:54:12

Local clock offset: 0.02 ms

Remote clock offset: 2.334 ms

# Below is generated by plot.py at 2018-02-05 00:51:35

# Datalink statistics

-- Total of 3 flows:

Average throughput: 76.49 Mbit/s

95th percentile per-packet one-way delay: 22.424 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 41.66 Mbit/s

95th percentile per-packet one-way delay: 20.709 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 36.36 Mbit/s

95th percentile per-packet one-way delay: 24.052 ms

Loss rate: 0.00%

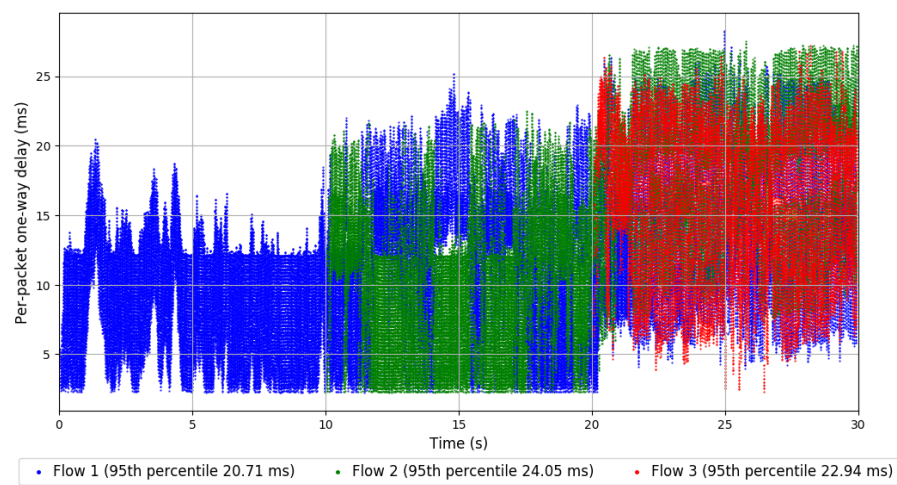
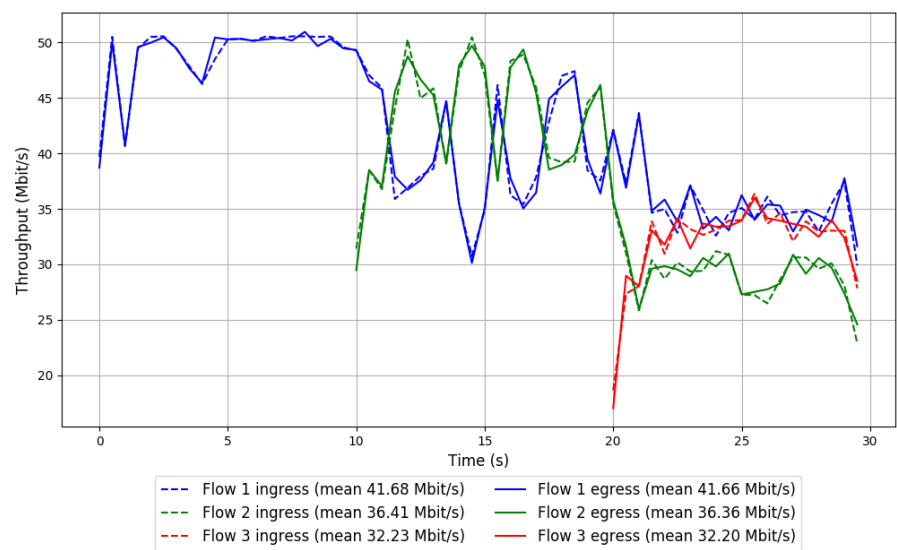
-- Flow 3:

Average throughput: 32.20 Mbit/s

95th percentile per-packet one-way delay: 22.942 ms

Loss rate: 0.00%

Run 4: Report of Sprout — Data Link

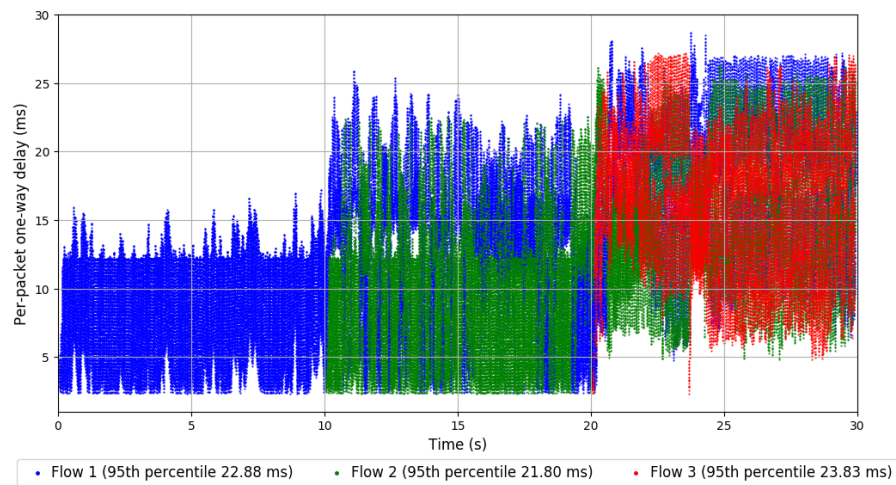
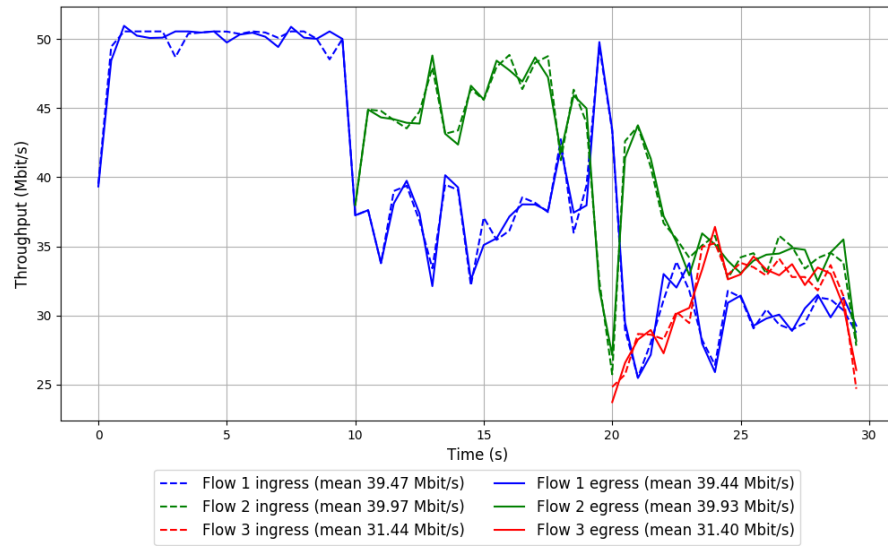


Run 5: Statistics of Sprout

Start at: 2018-02-04 22:14:05  
End at: 2018-02-04 22:14:35  
Local clock offset: -0.039 ms  
Remote clock offset: 3.151 ms

```
# Below is generated by plot.py at 2018-02-05 00:51:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 76.37 Mbit/s
95th percentile per-packet one-way delay: 22.742 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 39.44 Mbit/s
95th percentile per-packet one-way delay: 22.884 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 39.93 Mbit/s
95th percentile per-packet one-way delay: 21.795 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 31.40 Mbit/s
95th percentile per-packet one-way delay: 23.826 ms
Loss rate: 0.00%
```

## Run 5: Report of Sprout — Data Link

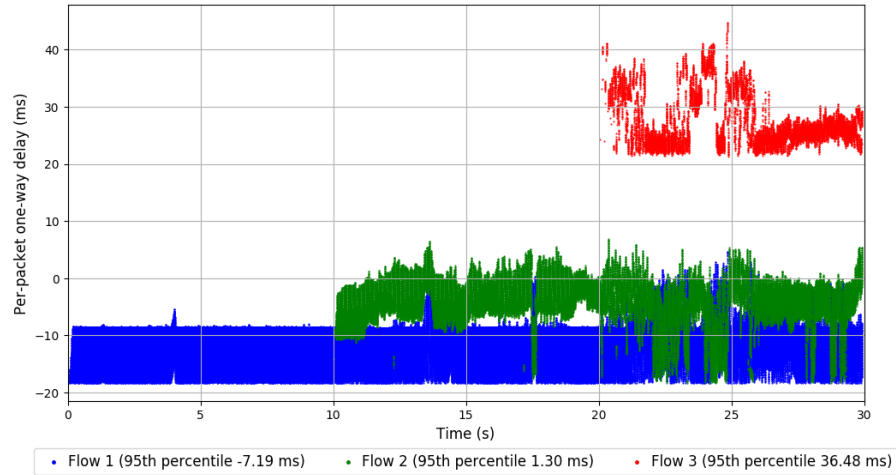
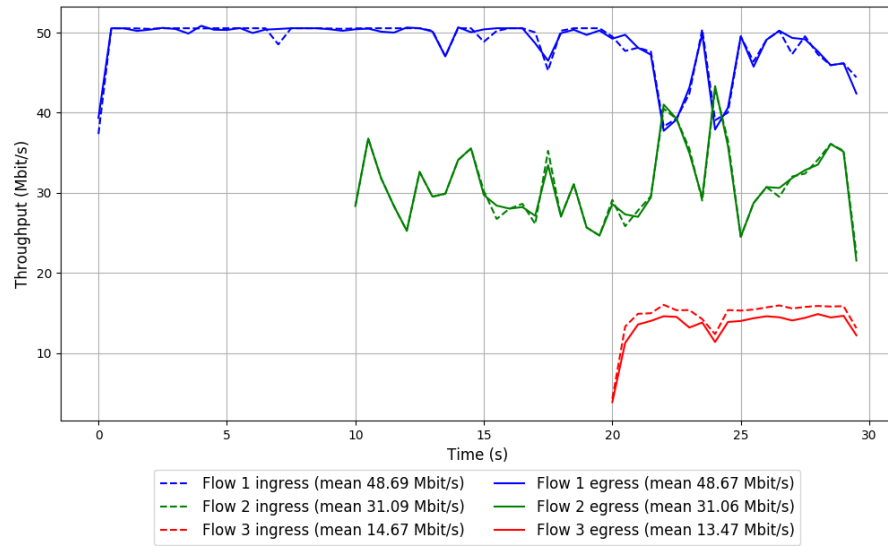


Run 6: Statistics of Sprout

Start at: 2018-02-04 22:34:40  
End at: 2018-02-04 22:35:10  
Local clock offset: -0.018 ms  
Remote clock offset: -17.51 ms

# Below is generated by plot.py at 2018-02-05 00:51:38  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 73.78 Mbit/s  
95th percentile per-packet one-way delay: 23.676 ms  
Loss rate: 0.56%  
-- Flow 1:  
Average throughput: 48.67 Mbit/s  
95th percentile per-packet one-way delay: -7.193 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 31.06 Mbit/s  
95th percentile per-packet one-way delay: 1.304 ms  
Loss rate: 0.02%  
-- Flow 3:  
Average throughput: 13.47 Mbit/s  
95th percentile per-packet one-way delay: 36.479 ms  
Loss rate: 8.40%

## Run 6: Report of Sprout — Data Link



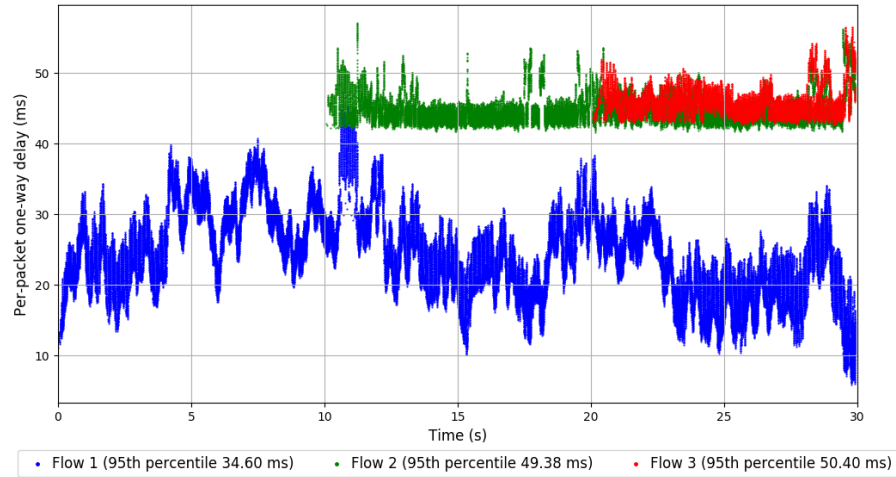
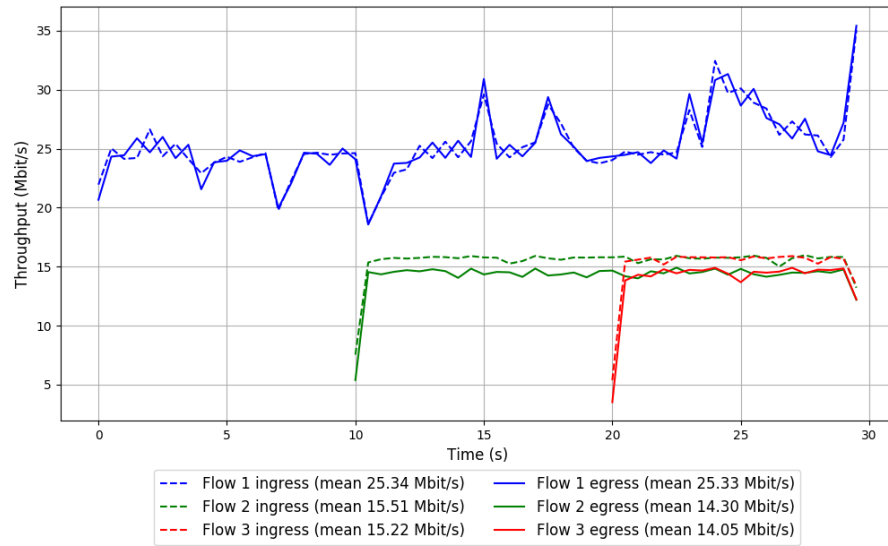
Run 7: Statistics of Sprout

Start at: 2018-02-04 22:55:16  
End at: 2018-02-04 22:55:46  
Local clock offset: 0.008 ms  
Remote clock offset: 2.772 ms

# Below is generated by plot.py at 2018-02-05 00:51:38  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 39.46 Mbit/s  
95th percentile per-packet one-way delay: 47.429 ms  
Loss rate: 3.02%  
-- Flow 1:  
Average throughput: 25.33 Mbit/s  
95th percentile per-packet one-way delay: 34.600 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 14.30 Mbit/s  
95th percentile per-packet one-way delay: 49.385 ms  
Loss rate: 7.98%  
-- Flow 3:  
Average throughput: 14.05 Mbit/s  
95th percentile per-packet one-way delay: 50.397 ms  
Loss rate: 8.02%



# Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-02-04 23:15:51

End at: 2018-02-04 23:16:21

Local clock offset: 0.006 ms

Remote clock offset: 2.633 ms

# Below is generated by plot.py at 2018-02-05 00:51:44

# Datalink statistics

-- Total of 3 flows:

Average throughput: 39.97 Mbit/s

95th percentile per-packet one-way delay: 51.686 ms

Loss rate: 5.14%

-- Flow 1:

Average throughput: 14.22 Mbit/s

95th percentile per-packet one-way delay: 52.466 ms

Loss rate: 8.36%

-- Flow 2:

Average throughput: 14.10 Mbit/s

95th percentile per-packet one-way delay: 53.025 ms

Loss rate: 8.51%

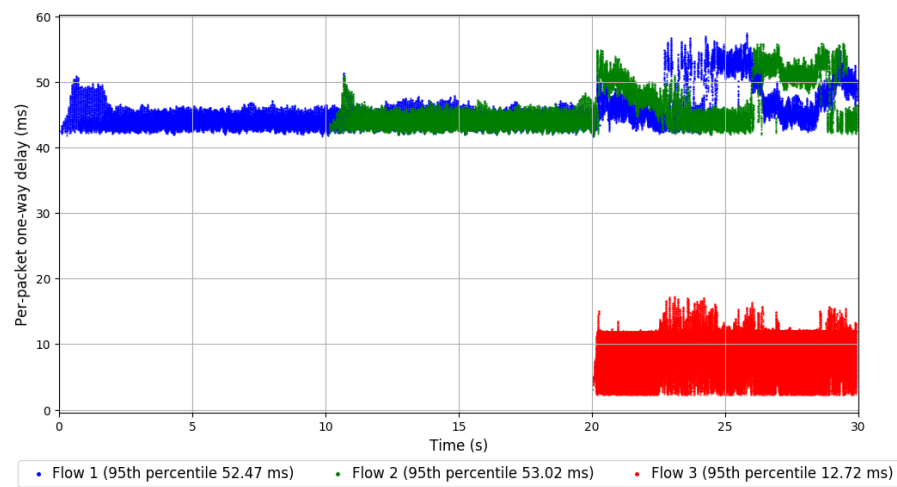
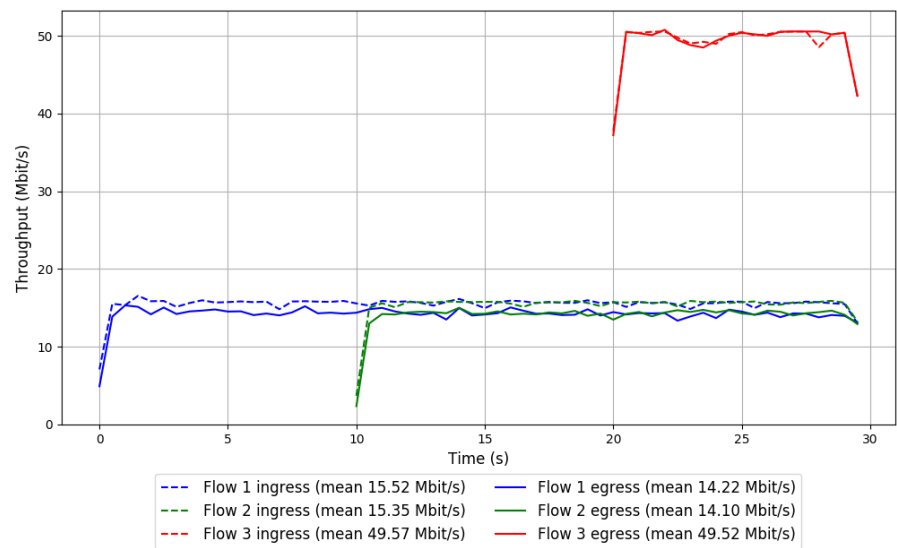
-- Flow 3:

Average throughput: 49.52 Mbit/s

95th percentile per-packet one-way delay: 12.722 ms

Loss rate: 0.00%

Run 8: Report of Sprout — Data Link

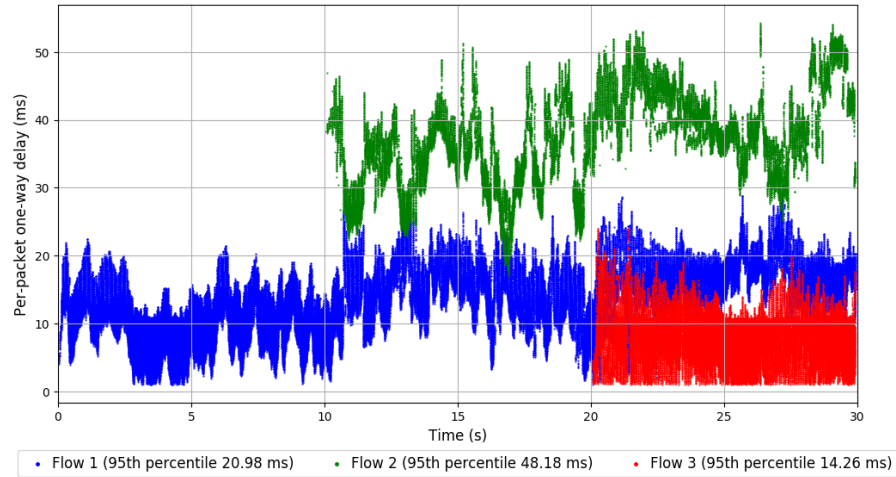
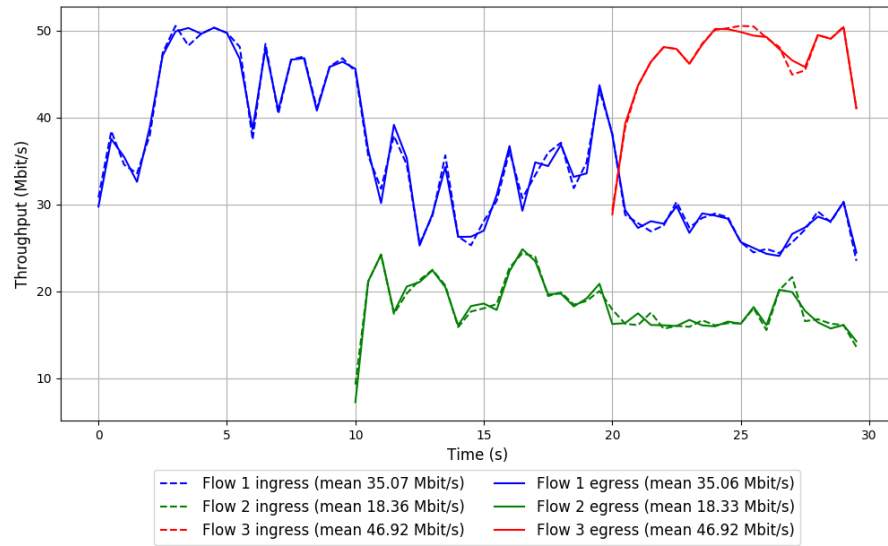


Run 9: Statistics of Sprout

Start at: 2018-02-04 23:36:35  
End at: 2018-02-04 23:37:05  
Local clock offset: -0.057 ms  
Remote clock offset: 1.363 ms

```
# Below is generated by plot.py at 2018-02-05 00:52:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 62.74 Mbit/s
95th percentile per-packet one-way delay: 41.348 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 35.06 Mbit/s
95th percentile per-packet one-way delay: 20.983 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 18.33 Mbit/s
95th percentile per-packet one-way delay: 48.178 ms
Loss rate: 0.20%
-- Flow 3:
Average throughput: 46.92 Mbit/s
95th percentile per-packet one-way delay: 14.259 ms
Loss rate: 0.00%
```

## Run 9: Report of Sprout — Data Link

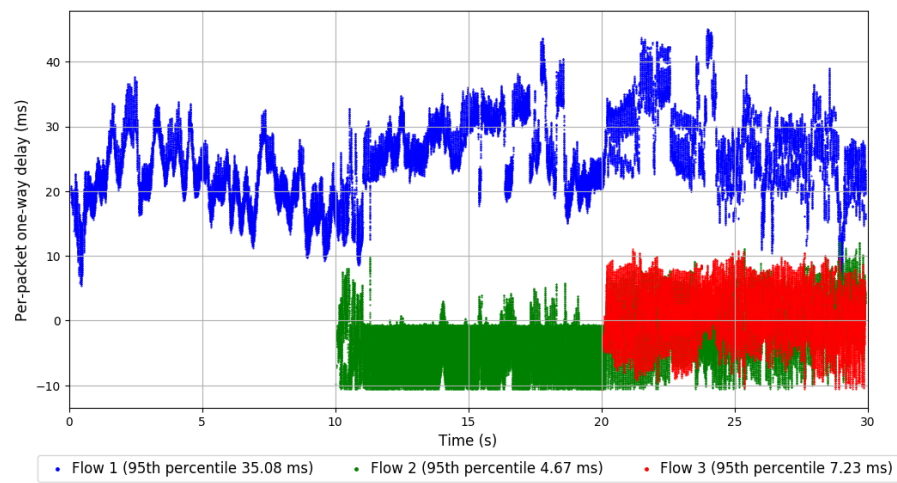
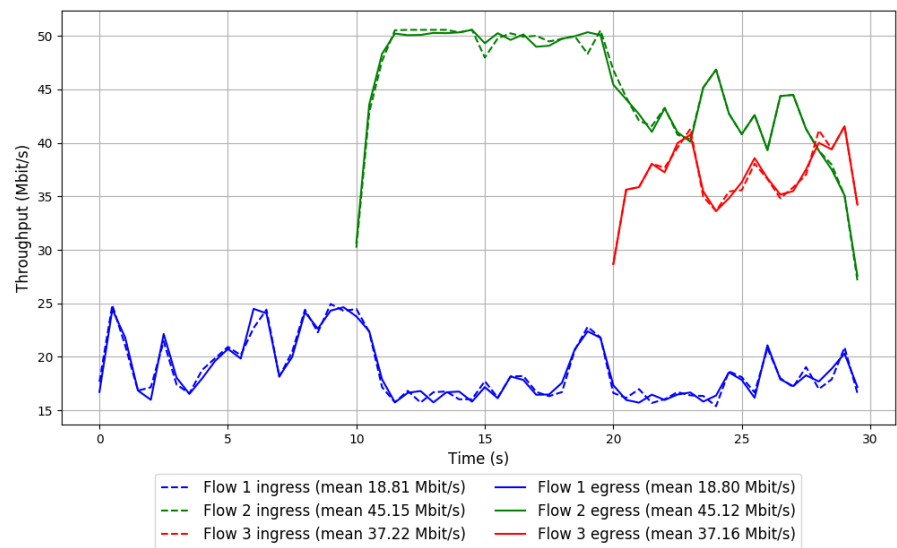


Run 10: Statistics of Sprout

Start at: 2018-02-04 23:57:25  
End at: 2018-02-04 23:57:55  
Local clock offset: -0.024 ms  
Remote clock offset: -10.3 ms

# Below is generated by plot.py at 2018-02-05 00:52:07  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 61.12 Mbit/s  
95th percentile per-packet one-way delay: 31.026 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 18.80 Mbit/s  
95th percentile per-packet one-way delay: 35.082 ms  
Loss rate: 0.05%  
-- Flow 2:  
Average throughput: 45.12 Mbit/s  
95th percentile per-packet one-way delay: 4.674 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 37.16 Mbit/s  
95th percentile per-packet one-way delay: 7.229 ms  
Loss rate: 0.01%

Run 10: Report of Sprout — Data Link



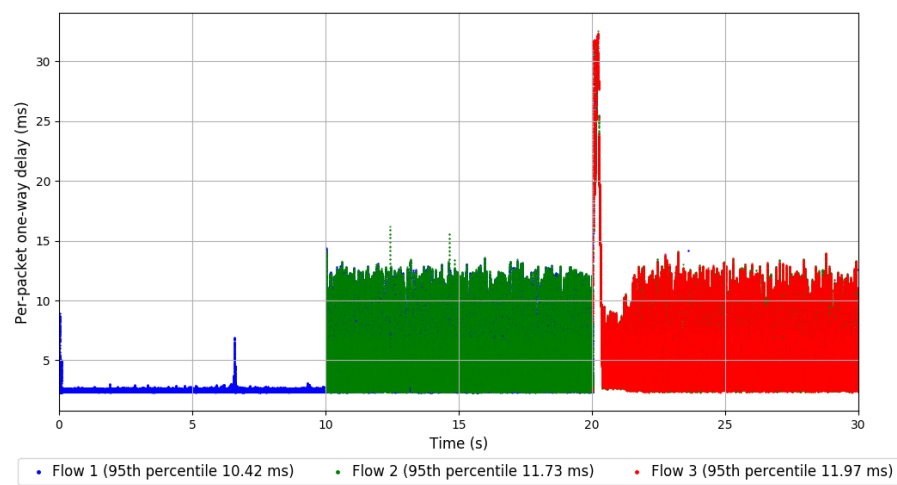
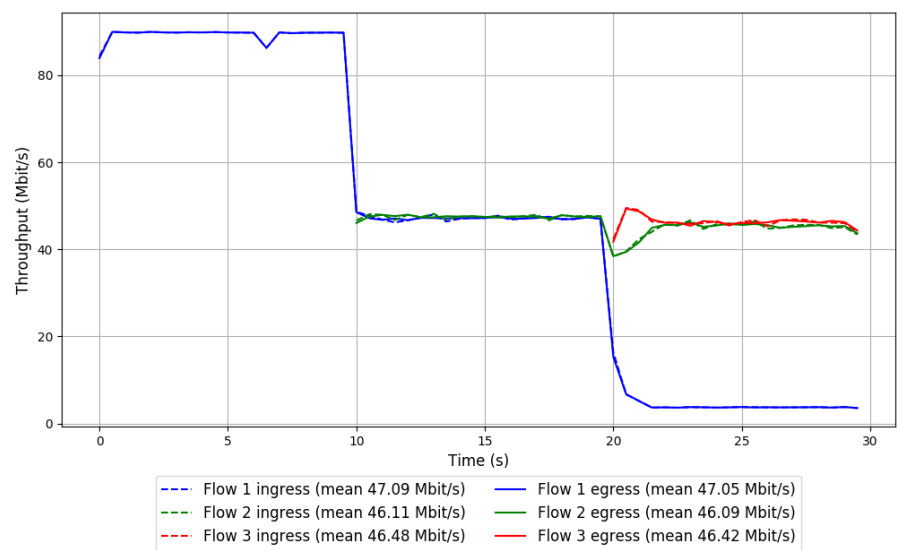
```
Run 1: Statistics of TaoVA-100x

Start at: 2018-02-04 21:04:35
End at: 2018-02-04 21:05:05
Local clock offset: 0.026 ms
Remote clock offset: 2.261 ms

# Below is generated by plot.py at 2018-02-05 00:53:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.16 Mbit/s
95th percentile per-packet one-way delay: 11.353 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 47.05 Mbit/s
95th percentile per-packet one-way delay: 10.422 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 46.09 Mbit/s
95th percentile per-packet one-way delay: 11.730 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 46.42 Mbit/s
95th percentile per-packet one-way delay: 11.970 ms
Loss rate: 0.04%
```



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

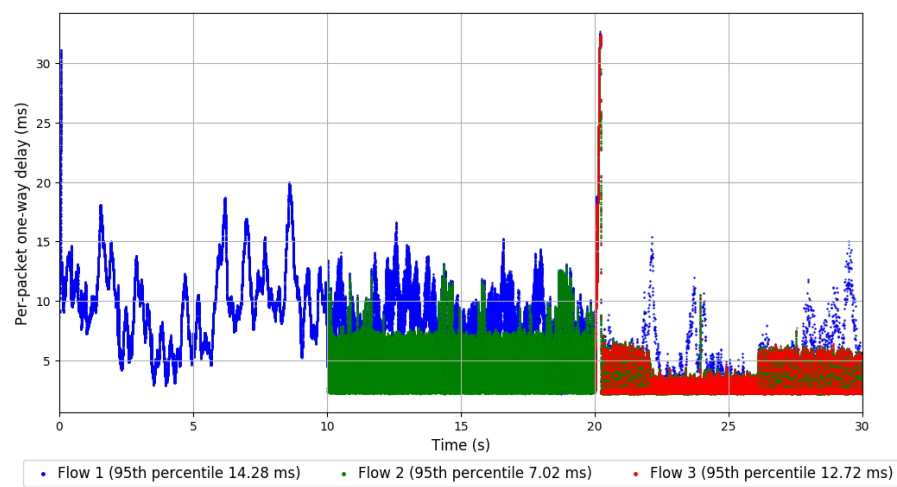
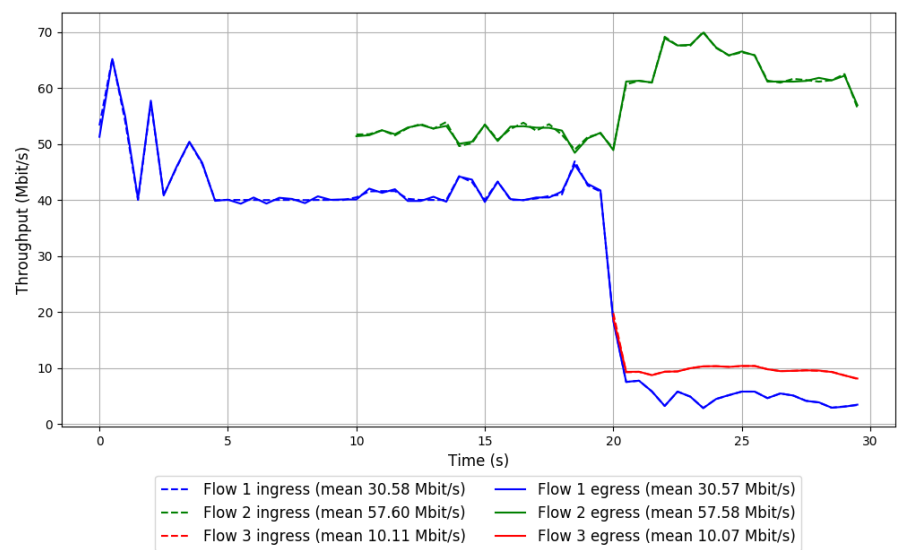


```
Run 2: Statistics of TaoVA-100x

Start at: 2018-02-04 21:25:13
End at: 2018-02-04 21:25:43
Local clock offset: 0.061 ms
Remote clock offset: 2.1 ms

# Below is generated by plot.py at 2018-02-05 00:53:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 72.27 Mbit/s
95th percentile per-packet one-way delay: 12.449 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 30.57 Mbit/s
95th percentile per-packet one-way delay: 14.284 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 57.58 Mbit/s
95th percentile per-packet one-way delay: 7.021 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 10.07 Mbit/s
95th percentile per-packet one-way delay: 12.723 ms
Loss rate: 0.38%
```

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-02-04 21:45:39

End at: 2018-02-04 21:46:09

Local clock offset: -0.034 ms

Remote clock offset: 2.065 ms

# Below is generated by plot.py at 2018-02-05 00:54:02

# Datalink statistics

-- Total of 3 flows:

Average throughput: 93.15 Mbit/s

95th percentile per-packet one-way delay: 11.283 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 60.44 Mbit/s

95th percentile per-packet one-way delay: 10.782 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 25.79 Mbit/s

95th percentile per-packet one-way delay: 11.753 ms

Loss rate: 0.13%

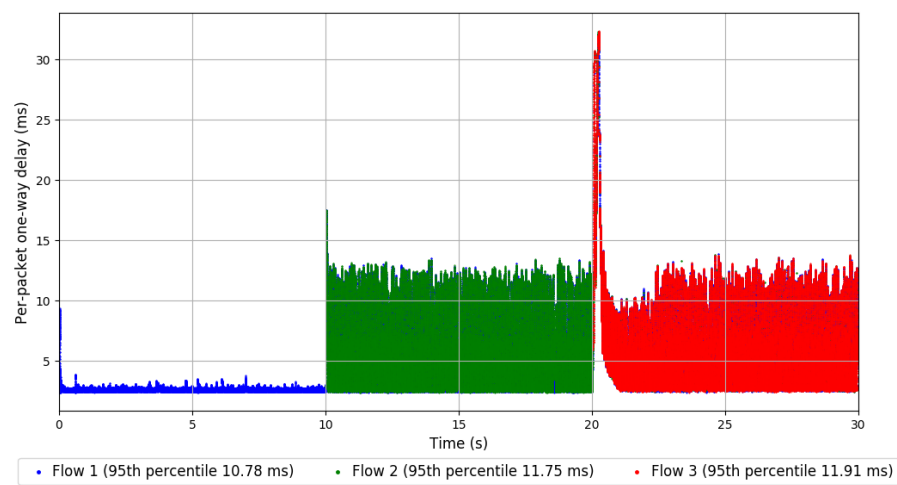
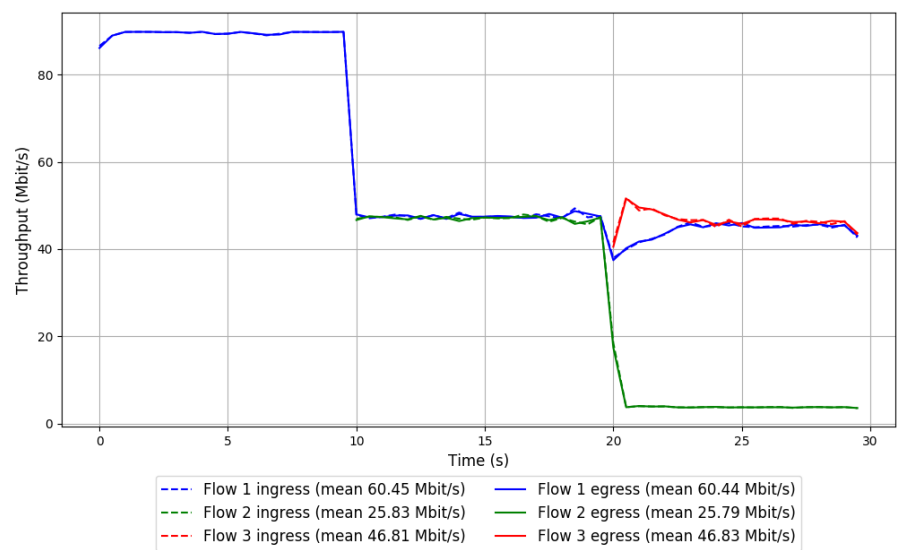
-- Flow 3:

Average throughput: 46.83 Mbit/s

95th percentile per-packet one-way delay: 11.913 ms

Loss rate: 0.03%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-02-04 22:06:03

End at: 2018-02-04 22:06:33

Local clock offset: 0.043 ms

Remote clock offset: 2.974 ms

# Below is generated by plot.py at 2018-02-05 00:54:02

# Datalink statistics

-- Total of 3 flows:

Average throughput: 72.29 Mbit/s

95th percentile per-packet one-way delay: 21.698 ms

Loss rate: 0.24%

-- Flow 1:

Average throughput: 29.03 Mbit/s

95th percentile per-packet one-way delay: 22.910 ms

Loss rate: 0.23%

-- Flow 2:

Average throughput: 42.08 Mbit/s

95th percentile per-packet one-way delay: 21.138 ms

Loss rate: 0.19%

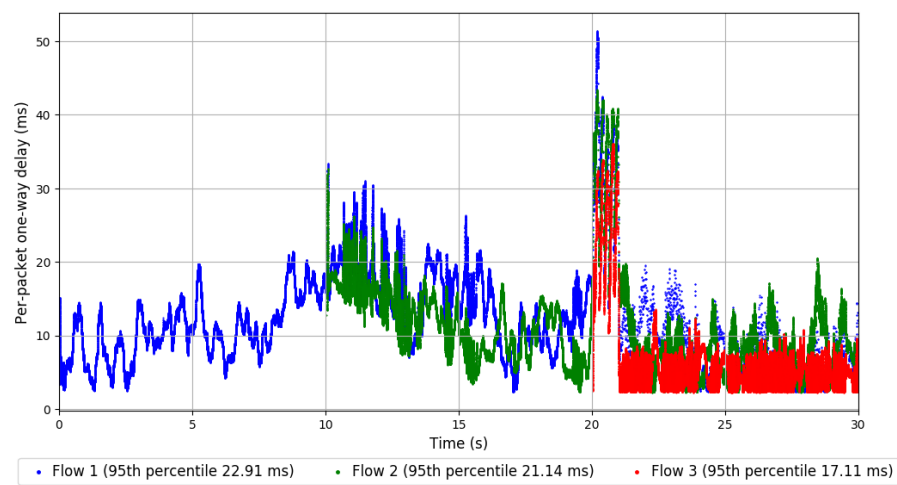
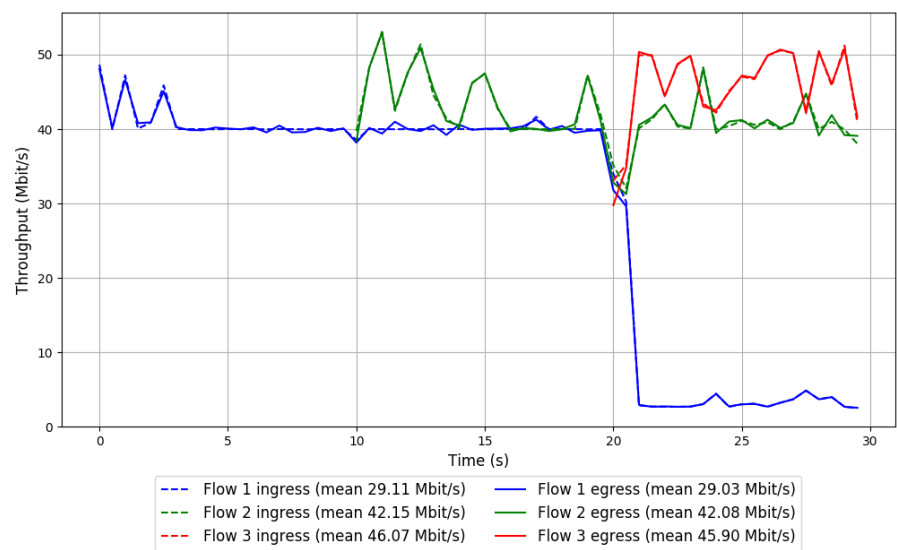
-- Flow 3:

Average throughput: 45.90 Mbit/s

95th percentile per-packet one-way delay: 17.105 ms

Loss rate: 0.33%

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



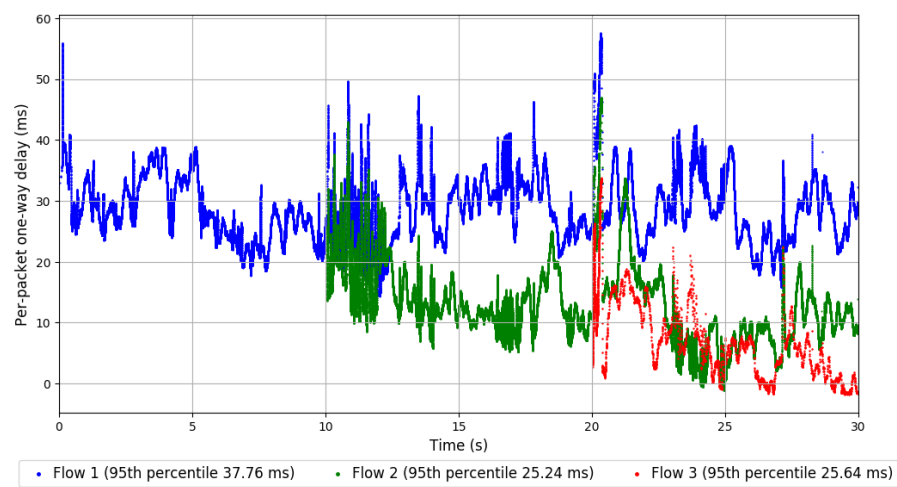
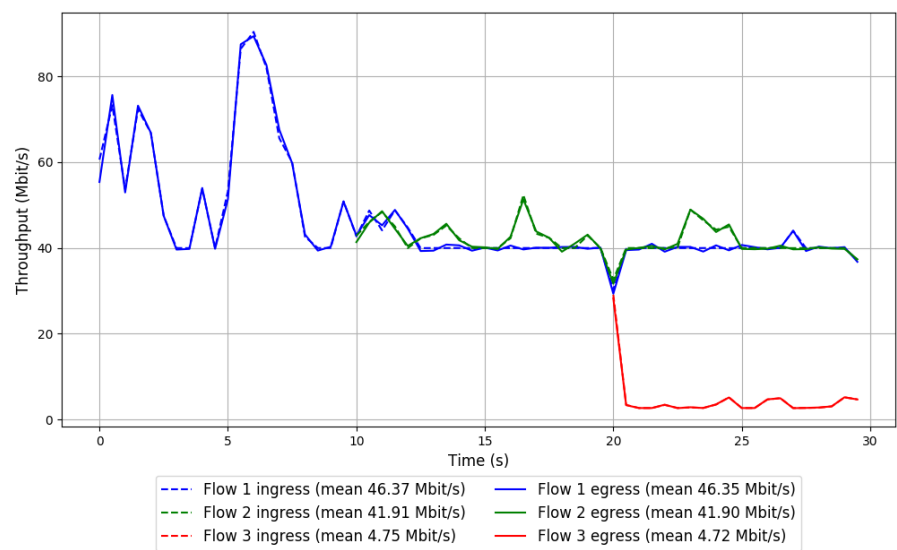
Run 5: Statistics of TaoVA-100x

Start at: 2018-02-04 22:26:35  
End at: 2018-02-04 22:27:05  
Local clock offset: -0.007 ms  
Remote clock offset: -0.892 ms

# Below is generated by plot.py at 2018-02-05 00:54:02  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 75.83 Mbit/s  
95th percentile per-packet one-way delay: 36.480 ms  
Loss rate: 0.14%  
-- Flow 1:  
Average throughput: 46.35 Mbit/s  
95th percentile per-packet one-way delay: 37.756 ms  
Loss rate: 0.14%  
-- Flow 2:  
Average throughput: 41.90 Mbit/s  
95th percentile per-packet one-way delay: 25.244 ms  
Loss rate: 0.08%  
-- Flow 3:  
Average throughput: 4.72 Mbit/s  
95th percentile per-packet one-way delay: 25.640 ms  
Loss rate: 0.86%



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



Run 6: Statistics of TaoVA-100x

Start at: 2018-02-04 22:47:15

End at: 2018-02-04 22:47:45

Local clock offset: -0.007 ms

Remote clock offset: 0.371 ms

# Below is generated by plot.py at 2018-02-05 00:54:07

# Datalink statistics

-- Total of 3 flows:

Average throughput: 91.87 Mbit/s

95th percentile per-packet one-way delay: 8.862 ms

Loss rate: 0.22%

-- Flow 1:

Average throughput: 58.88 Mbit/s

95th percentile per-packet one-way delay: 7.225 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 46.40 Mbit/s

95th percentile per-packet one-way delay: 8.419 ms

Loss rate: 0.00%

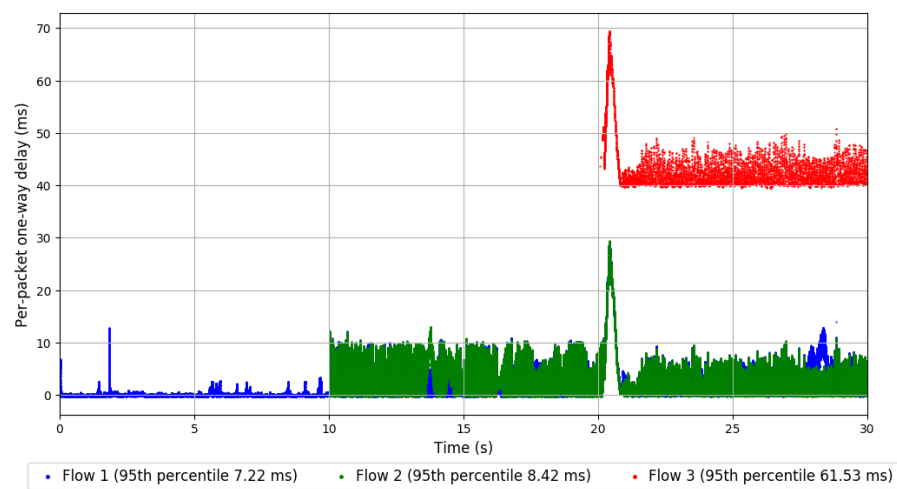
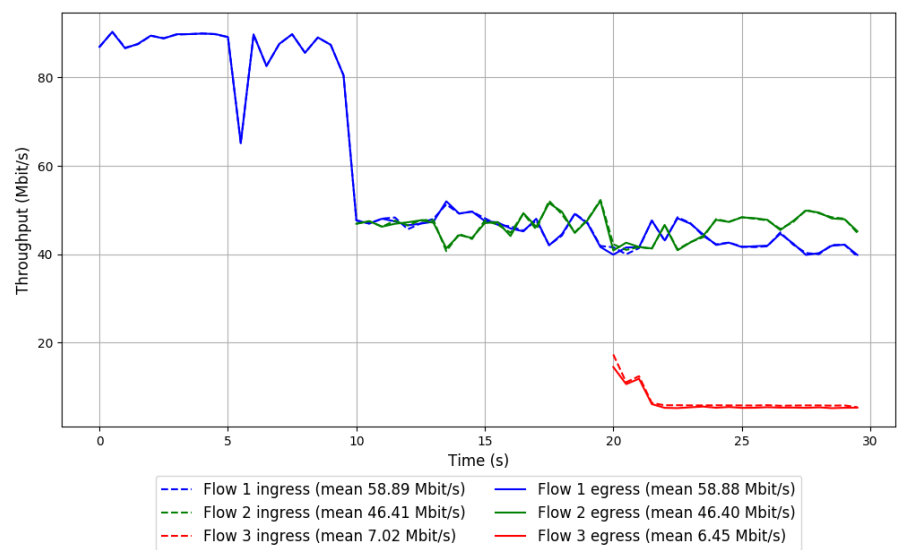
-- Flow 3:

Average throughput: 6.45 Mbit/s

95th percentile per-packet one-way delay: 61.534 ms

Loss rate: 8.30%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-02-04 23:07:47

End at: 2018-02-04 23:08:17

Local clock offset: -0.086 ms

Remote clock offset: 2.574 ms

# Below is generated by plot.py at 2018-02-05 00:54:27

# Datalink statistics

-- Total of 3 flows:

Average throughput: 90.27 Mbit/s

95th percentile per-packet one-way delay: 15.654 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 48.95 Mbit/s

95th percentile per-packet one-way delay: 6.519 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 40.06 Mbit/s

95th percentile per-packet one-way delay: 19.419 ms

Loss rate: 0.03%

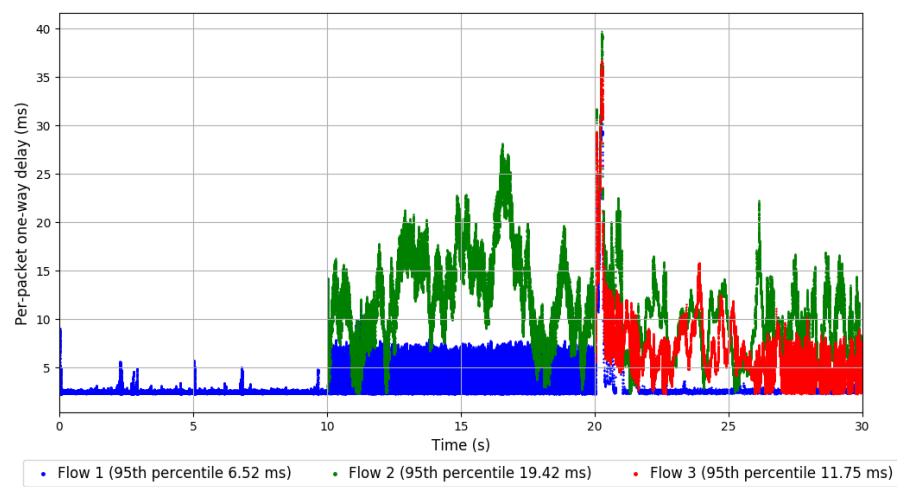
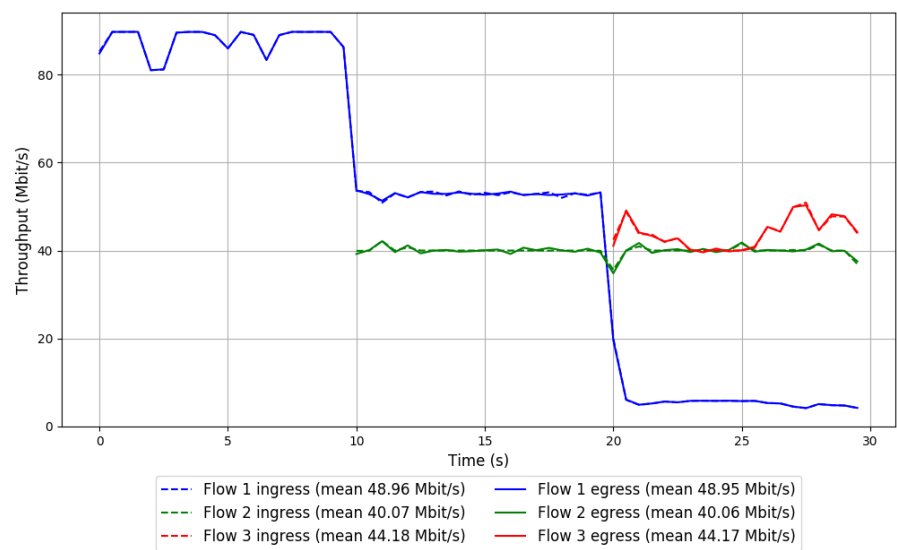
-- Flow 3:

Average throughput: 44.17 Mbit/s

95th percentile per-packet one-way delay: 11.752 ms

Loss rate: 0.04%

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

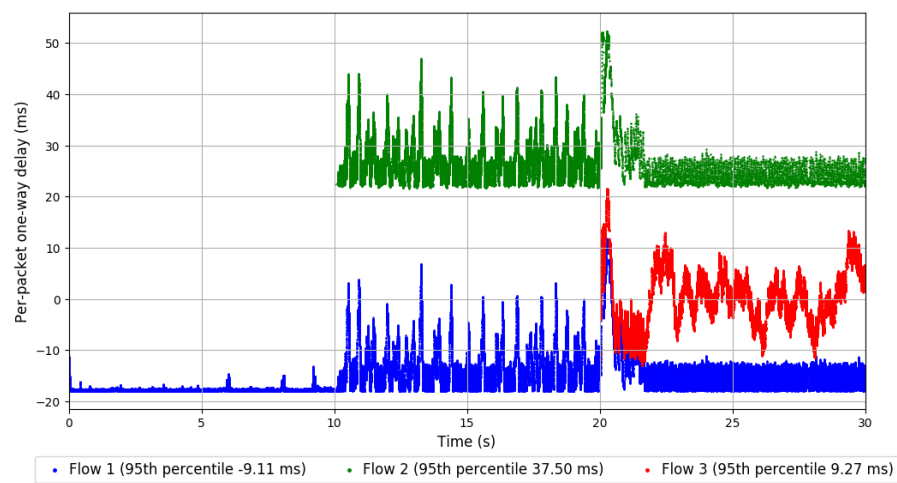
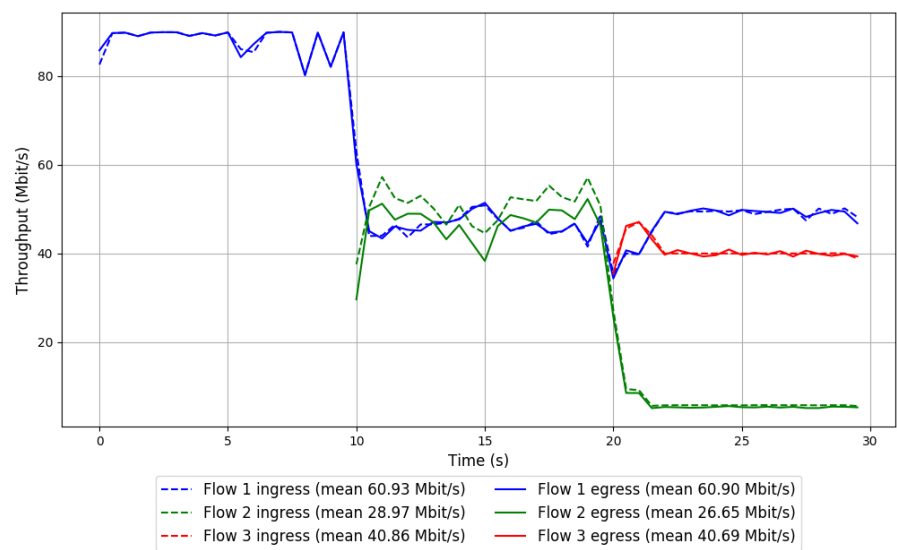


Run 8: Statistics of TaoVA-100x

Start at: 2018-02-04 23:28:26  
End at: 2018-02-04 23:28:56  
Local clock offset: -0.076 ms  
Remote clock offset: -17.697 ms

# Below is generated by plot.py at 2018-02-05 00:54:32  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.10 Mbit/s  
95th percentile per-packet one-way delay: 29.333 ms  
Loss rate: 1.72%  
-- Flow 1:  
Average throughput: 60.90 Mbit/s  
95th percentile per-packet one-way delay: -9.106 ms  
Loss rate: 0.02%  
-- Flow 2:  
Average throughput: 26.65 Mbit/s  
95th percentile per-packet one-way delay: 37.502 ms  
Loss rate: 8.09%  
-- Flow 3:  
Average throughput: 40.69 Mbit/s  
95th percentile per-packet one-way delay: 9.273 ms  
Loss rate: 0.29%

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



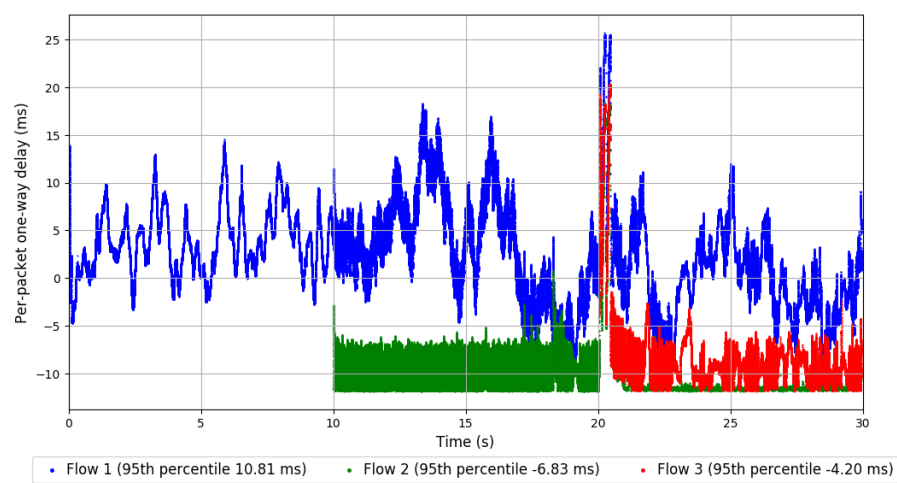
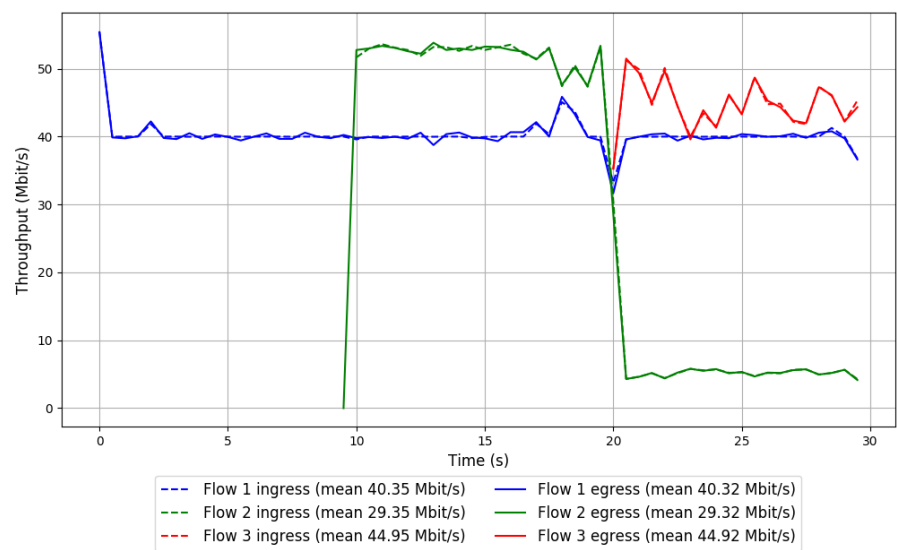
Run 9: Statistics of TaoVA-100x

Start at: 2018-02-04 23:49:15  
End at: 2018-02-04 23:49:45  
Local clock offset: -0.098 ms  
Remote clock offset: -11.54 ms

# Below is generated by plot.py at 2018-02-05 00:55:31  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 74.73 Mbit/s  
95th percentile per-packet one-way delay: 9.230 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 40.32 Mbit/s  
95th percentile per-packet one-way delay: 10.812 ms  
Loss rate: 0.07%  
-- Flow 2:  
Average throughput: 29.32 Mbit/s  
95th percentile per-packet one-way delay: -6.830 ms  
Loss rate: 0.09%  
-- Flow 3:  
Average throughput: 44.92 Mbit/s  
95th percentile per-packet one-way delay: -4.200 ms  
Loss rate: 0.13%



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

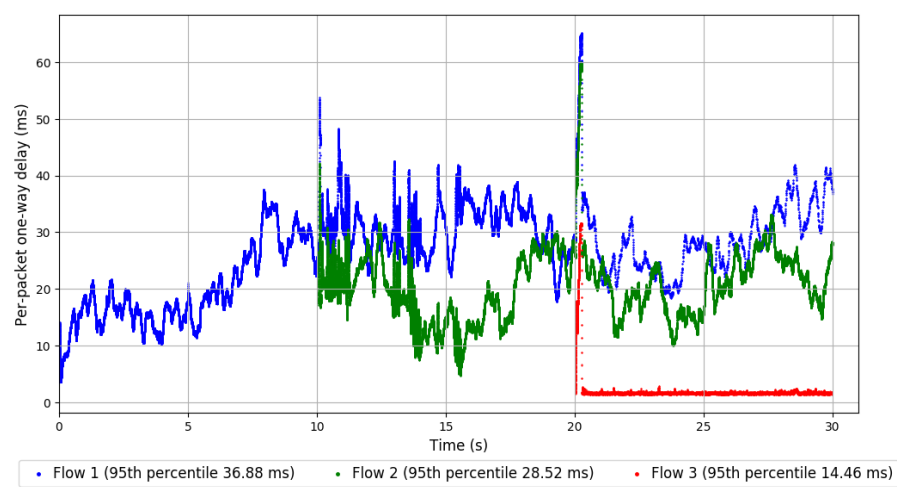
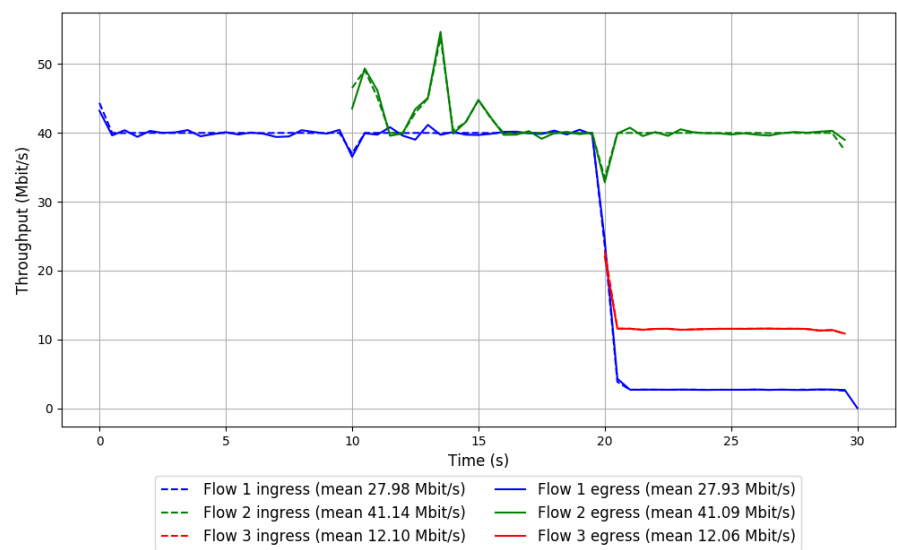


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-02-05 00:10:06
End at: 2018-02-05 00:10:36
Local clock offset: -0.008 ms
Remote clock offset: 1.357 ms

# Below is generated by plot.py at 2018-02-05 00:55:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 59.27 Mbit/s
95th percentile per-packet one-way delay: 35.122 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 27.93 Mbit/s
95th percentile per-packet one-way delay: 36.877 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 41.09 Mbit/s
95th percentile per-packet one-way delay: 28.519 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 12.06 Mbit/s
95th percentile per-packet one-way delay: 14.464 ms
Loss rate: 0.35%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2018-02-04 20:58:51

End at: 2018-02-04 20:59:21

Local clock offset: -0.024 ms

Remote clock offset: 2.273 ms

# Below is generated by plot.py at 2018-02-05 00:55:31

# Datalink statistics

-- Total of 3 flows:

Average throughput: 90.61 Mbit/s

95th percentile per-packet one-way delay: 5.520 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 52.06 Mbit/s

95th percentile per-packet one-way delay: 7.635 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 43.32 Mbit/s

95th percentile per-packet one-way delay: 4.204 ms

Loss rate: 0.00%

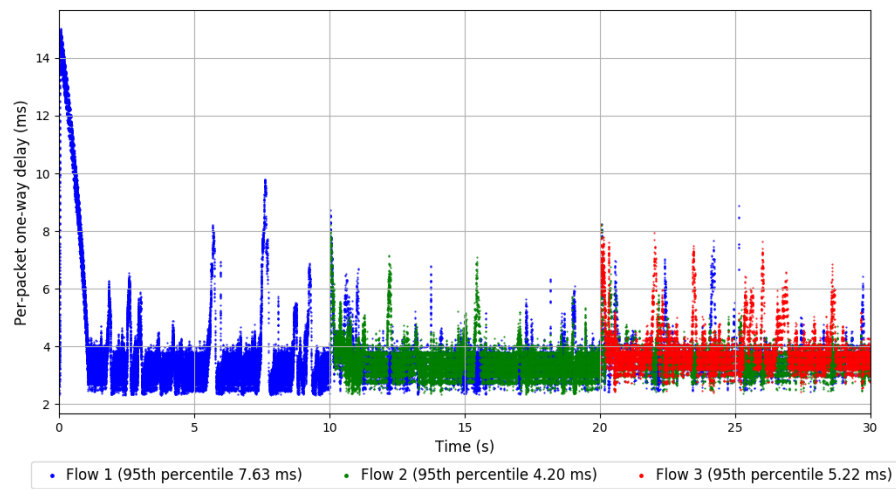
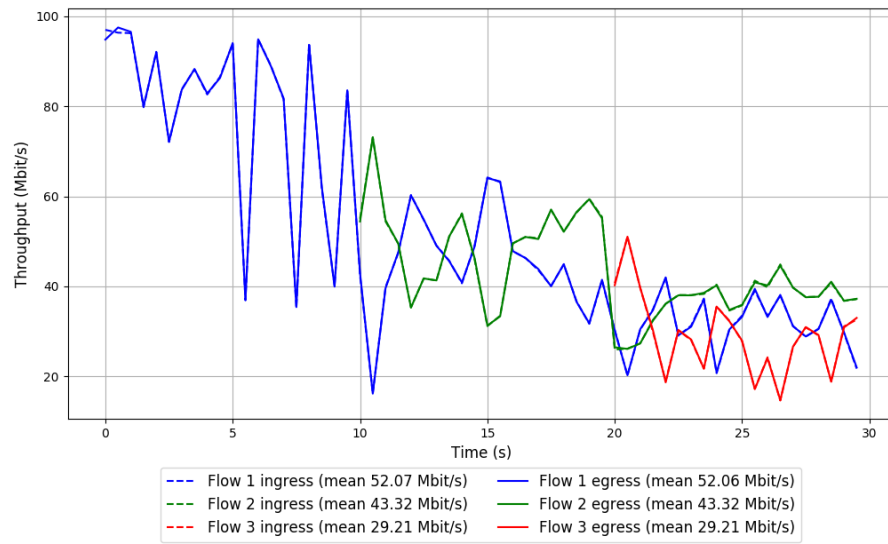
-- Flow 3:

Average throughput: 29.21 Mbit/s

95th percentile per-packet one-way delay: 5.224 ms

Loss rate: 0.00%

# Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-02-04 21:19:28

End at: 2018-02-04 21:19:58

Local clock offset: 0.084 ms

Remote clock offset: 2.194 ms

# Below is generated by plot.py at 2018-02-05 00:55:31

# Datalink statistics

-- Total of 3 flows:

Average throughput: 97.41 Mbit/s

95th percentile per-packet one-way delay: 5.423 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 54.52 Mbit/s

95th percentile per-packet one-way delay: 6.692 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 50.86 Mbit/s

95th percentile per-packet one-way delay: 4.005 ms

Loss rate: 0.00%

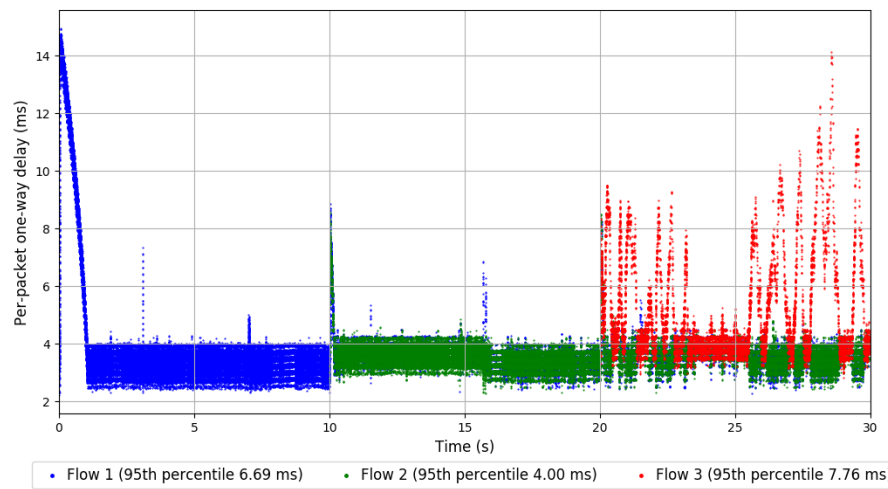
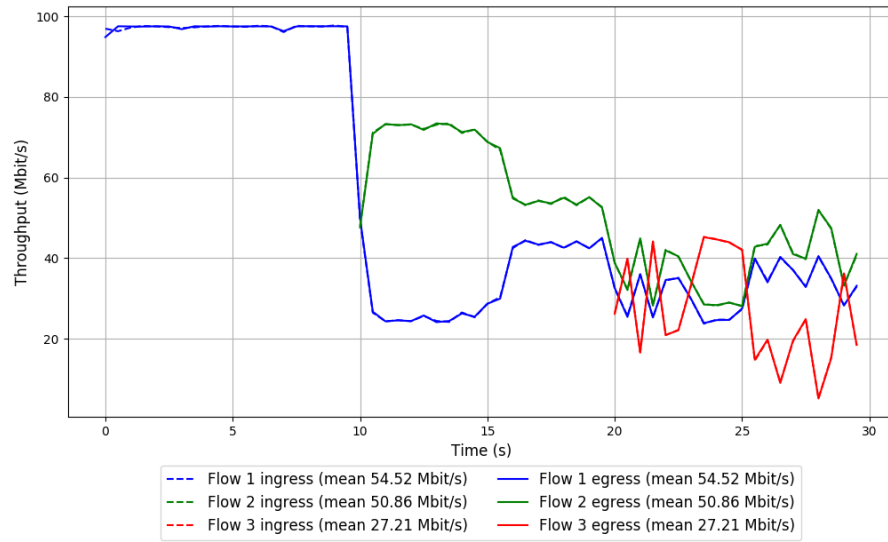
-- Flow 3:

Average throughput: 27.21 Mbit/s

95th percentile per-packet one-way delay: 7.764 ms

Loss rate: 0.00%

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



Run 3: Statistics of TCP Vegas

Start at: 2018-02-04 21:39:58

End at: 2018-02-04 21:40:28

Local clock offset: 0.034 ms

Remote clock offset: 2.099 ms

# Below is generated by plot.py at 2018-02-05 00:55:31

# Datalink statistics

-- Total of 3 flows:

Average throughput: 68.67 Mbit/s

95th percentile per-packet one-way delay: 12.739 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 36.08 Mbit/s

95th percentile per-packet one-way delay: 8.660 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 35.99 Mbit/s

95th percentile per-packet one-way delay: 6.368 ms

Loss rate: 0.00%

-- Flow 3:

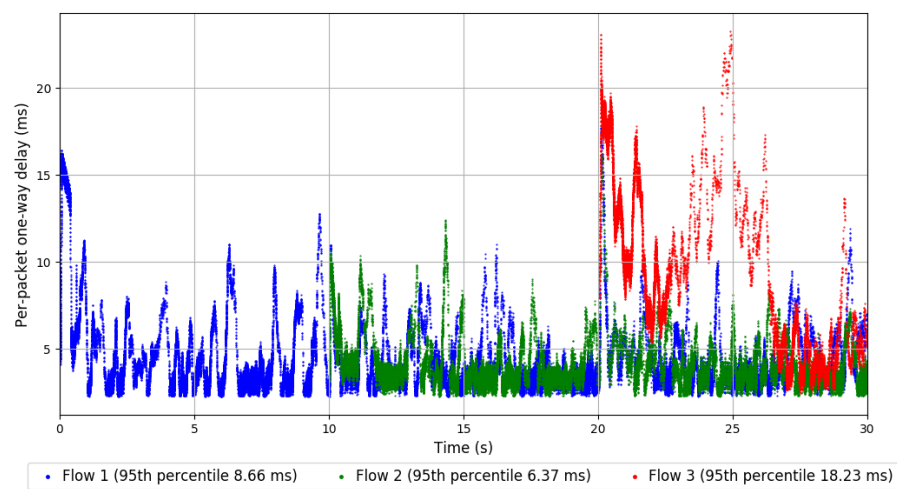
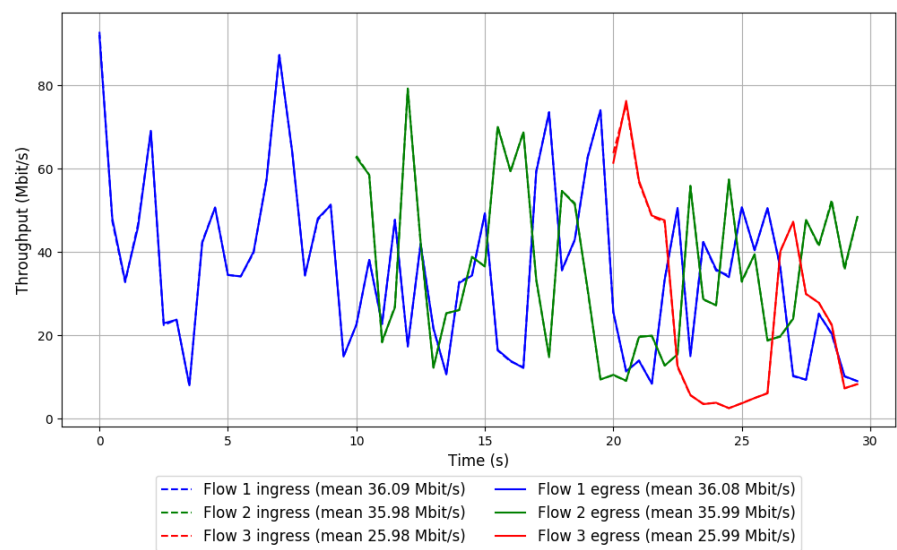
Average throughput: 25.99 Mbit/s

95th percentile per-packet one-way delay: 18.229 ms

Loss rate: 0.01%



Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-02-04 22:00:25

End at: 2018-02-04 22:00:55

Local clock offset: -0.03 ms

Remote clock offset: 2.646 ms

# Below is generated by plot.py at 2018-02-05 00:55:32

# Datalink statistics

-- Total of 3 flows:

Average throughput: 92.51 Mbit/s

95th percentile per-packet one-way delay: 6.407 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 57.74 Mbit/s

95th percentile per-packet one-way delay: 8.910 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 26.33 Mbit/s

95th percentile per-packet one-way delay: 6.005 ms

Loss rate: 0.00%

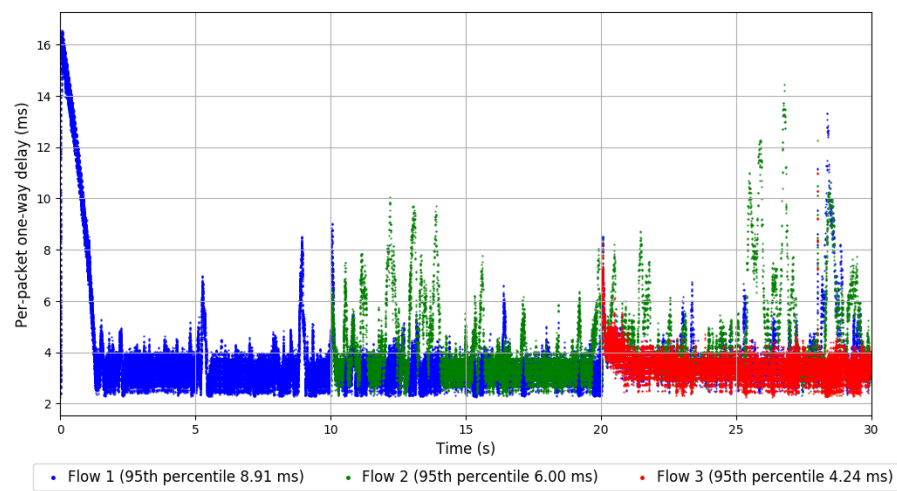
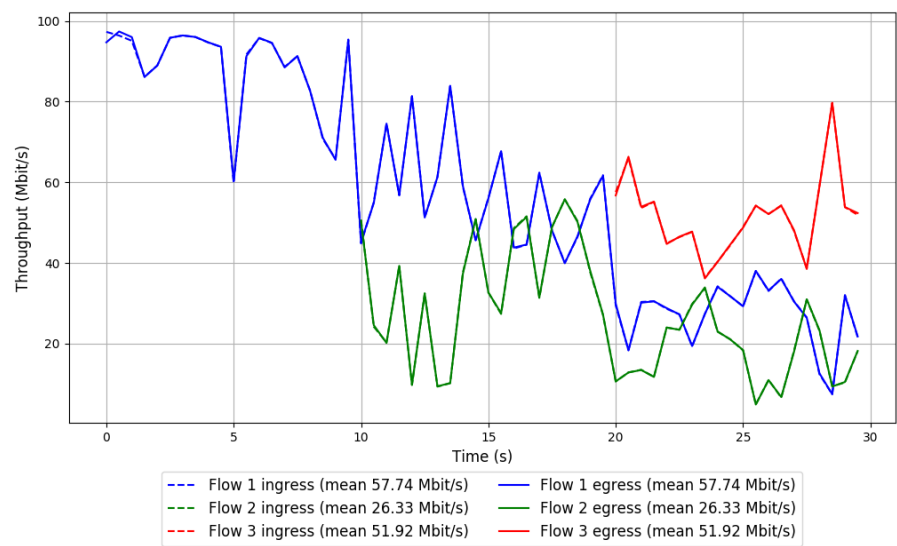
-- Flow 3:

Average throughput: 51.92 Mbit/s

95th percentile per-packet one-way delay: 4.244 ms

Loss rate: 0.00%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-02-04 22:20:51

End at: 2018-02-04 22:21:21

Local clock offset: -0.036 ms

Remote clock offset: 3.227 ms

# Below is generated by plot.py at 2018-02-05 00:55:38

# Datalink statistics

-- Total of 3 flows:

Average throughput: 75.17 Mbit/s

95th percentile per-packet one-way delay: 12.307 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 27.95 Mbit/s

95th percentile per-packet one-way delay: 8.769 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 65.75 Mbit/s

95th percentile per-packet one-way delay: 4.100 ms

Loss rate: 0.00%

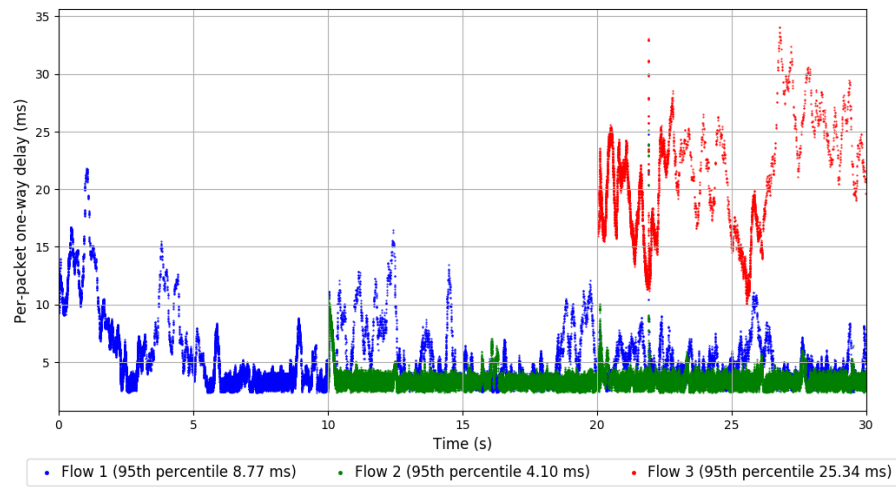
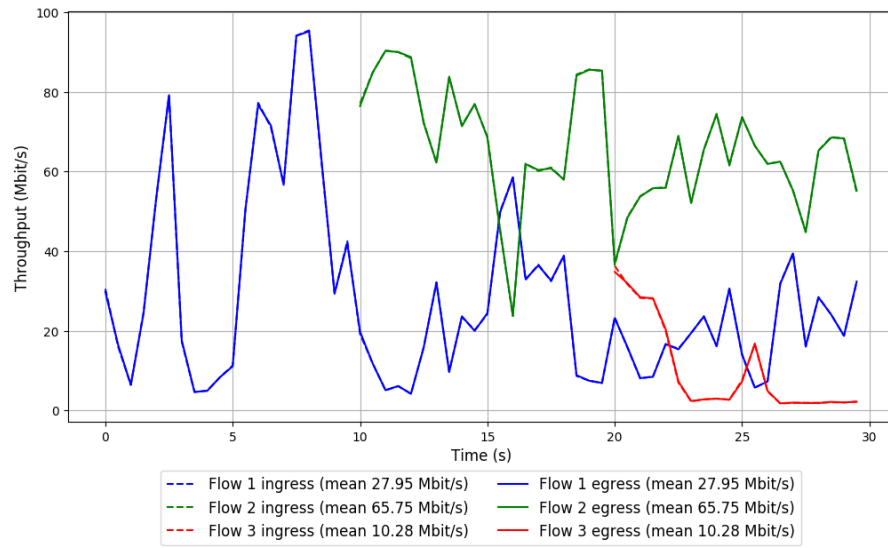
-- Flow 3:

Average throughput: 10.28 Mbit/s

95th percentile per-packet one-way delay: 25.343 ms

Loss rate: 0.05%

# Run 5: Report of TCP Vegas — Data Link

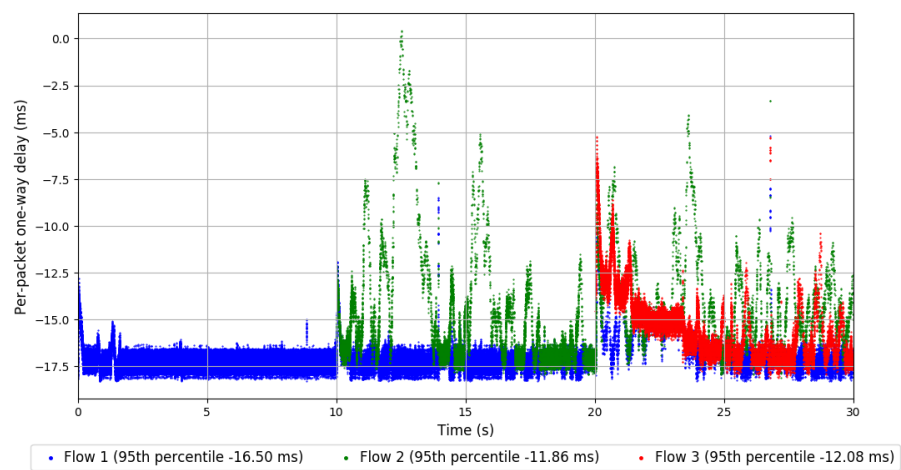
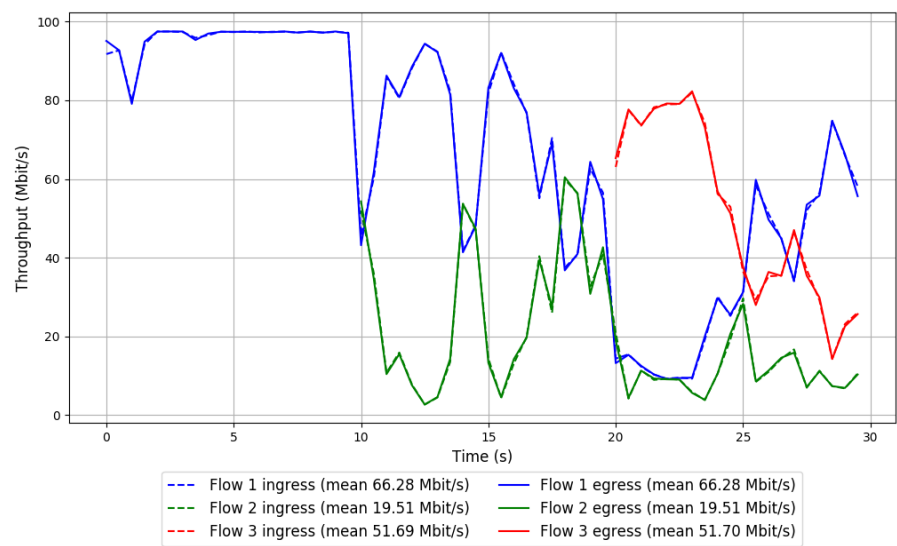


Run 6: Statistics of TCP Vegas

Start at: 2018-02-04 22:41:28  
End at: 2018-02-04 22:41:58  
Local clock offset: 0.005 ms  
Remote clock offset: -17.511 ms

# Below is generated by plot.py at 2018-02-05 00:56:00  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.42 Mbit/s  
95th percentile per-packet one-way delay: -13.784 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 66.28 Mbit/s  
95th percentile per-packet one-way delay: -16.503 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 19.51 Mbit/s  
95th percentile per-packet one-way delay: -11.857 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 51.70 Mbit/s  
95th percentile per-packet one-way delay: -12.080 ms  
Loss rate: 0.00%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-02-04 23:02:03

End at: 2018-02-04 23:02:33

Local clock offset: -0.002 ms

Remote clock offset: 2.74 ms

# Below is generated by plot.py at 2018-02-05 00:56:00

# Datalink statistics

-- Total of 3 flows:

Average throughput: 31.44 Mbit/s

95th percentile per-packet one-way delay: 13.900 ms

Loss rate: 0.15%

-- Flow 1:

Average throughput: 24.24 Mbit/s

95th percentile per-packet one-way delay: 13.043 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.90 Mbit/s

95th percentile per-packet one-way delay: 44.723 ms

Loss rate: 7.28%

-- Flow 3:

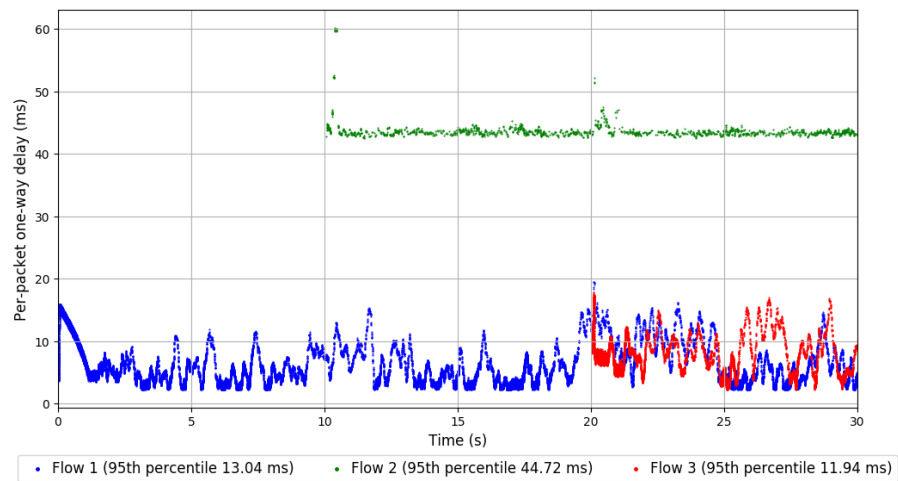
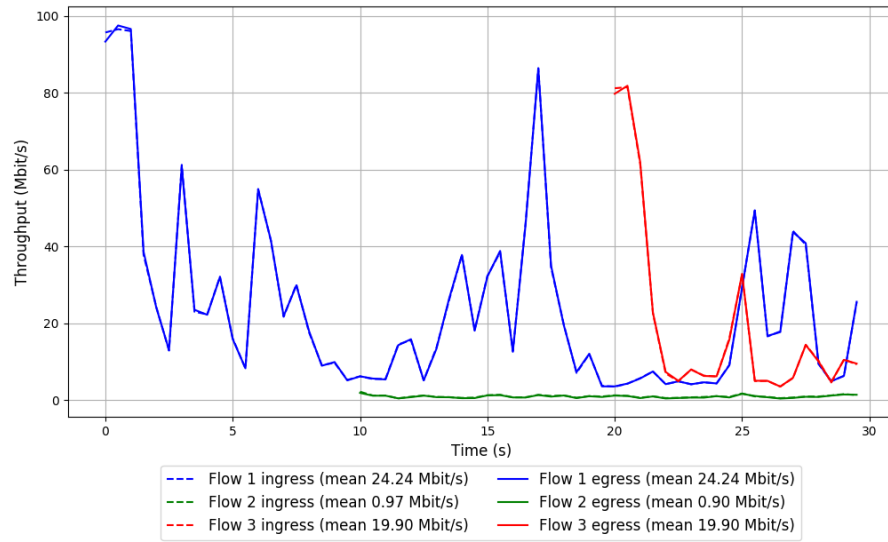
Average throughput: 19.90 Mbit/s

95th percentile per-packet one-way delay: 11.938 ms

Loss rate: 0.01%



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



Run 8: Statistics of TCP Vegas

Start at: 2018-02-04 23:22:39

End at: 2018-02-04 23:23:09

Local clock offset: 0.002 ms

Remote clock offset: 2.634 ms

# Below is generated by plot.py at 2018-02-05 00:56:25

# Datalink statistics

-- Total of 3 flows:

Average throughput: 93.54 Mbit/s

95th percentile per-packet one-way delay: 17.127 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 78.66 Mbit/s

95th percentile per-packet one-way delay: 4.051 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 8.35 Mbit/s

95th percentile per-packet one-way delay: 27.139 ms

Loss rate: 0.00%

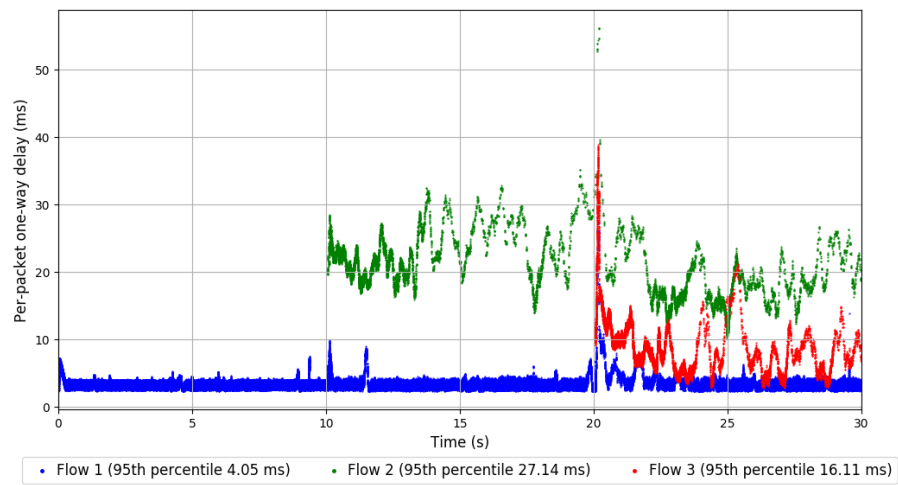
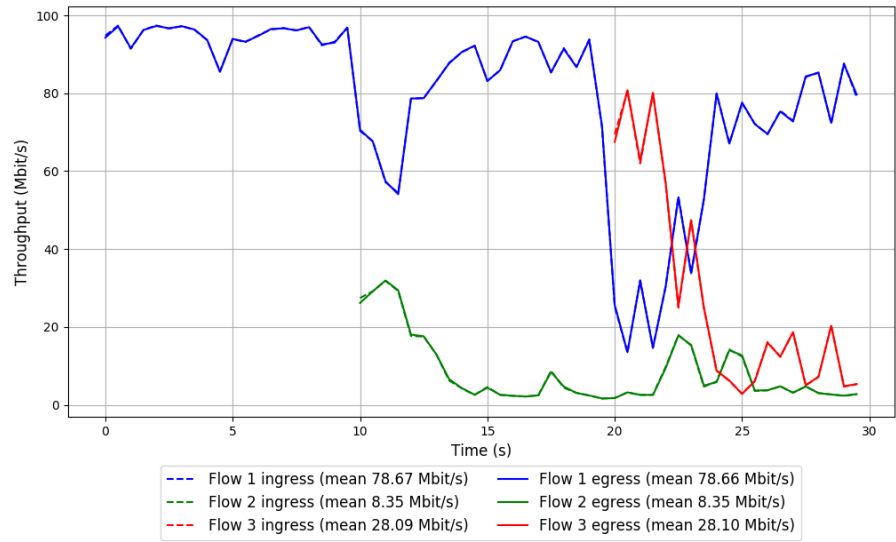
-- Flow 3:

Average throughput: 28.10 Mbit/s

95th percentile per-packet one-way delay: 16.107 ms

Loss rate: 0.01%

# Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-02-04 23:43:27

End at: 2018-02-04 23:43:57

Local clock offset: -0.08 ms

Remote clock offset: 2.697 ms

# Below is generated by plot.py at 2018-02-05 00:56:25

# Datalink statistics

-- Total of 3 flows:

Average throughput: 66.58 Mbit/s

95th percentile per-packet one-way delay: 30.979 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 38.35 Mbit/s

95th percentile per-packet one-way delay: 32.451 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 7.21 Mbit/s

95th percentile per-packet one-way delay: 29.227 ms

Loss rate: 0.00%

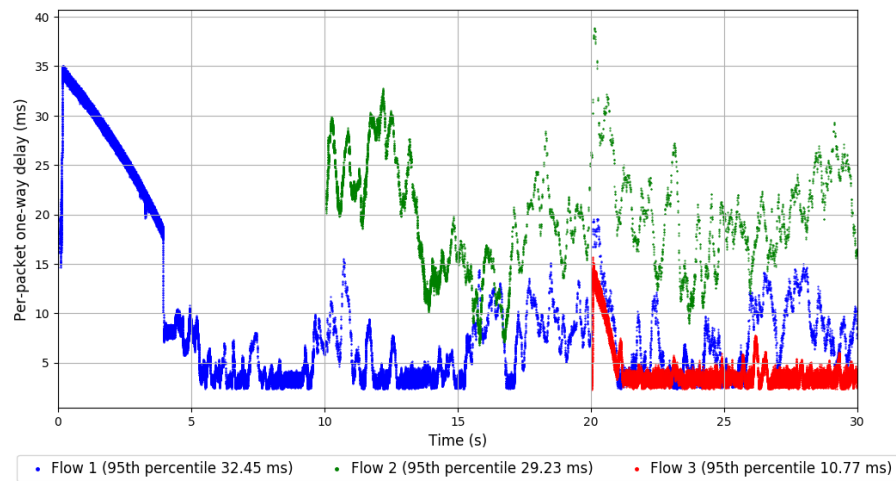
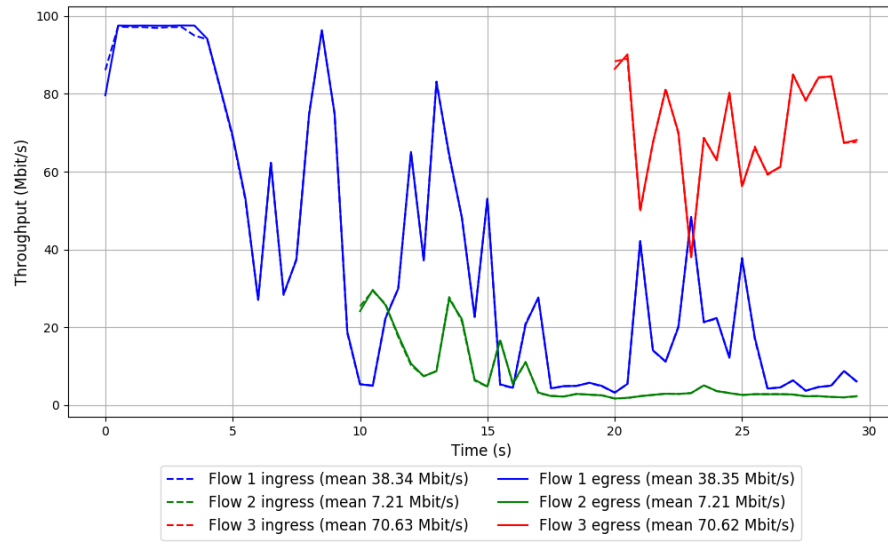
-- Flow 3:

Average throughput: 70.62 Mbit/s

95th percentile per-packet one-way delay: 10.772 ms

Loss rate: 0.00%

# Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-02-05 00:04:19

End at: 2018-02-05 00:04:49

Local clock offset: -0.035 ms

Remote clock offset: -6.84 ms

# Below is generated by plot.py at 2018-02-05 00:56:25

# Datalink statistics

-- Total of 3 flows:

Average throughput: 74.78 Mbit/s

95th percentile per-packet one-way delay: 28.132 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 13.52 Mbit/s

95th percentile per-packet one-way delay: 31.773 ms

Loss rate: 0.37%

-- Flow 2:

Average throughput: 86.43 Mbit/s

95th percentile per-packet one-way delay: -4.975 ms

Loss rate: 0.00%

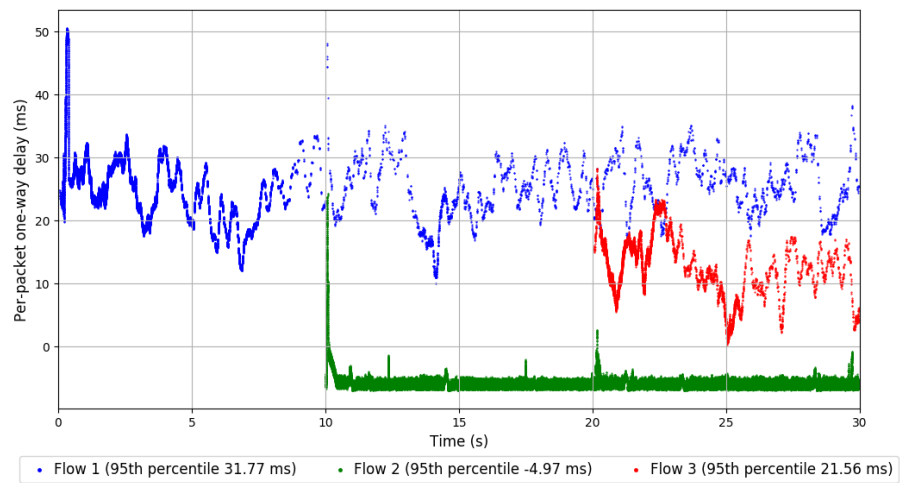
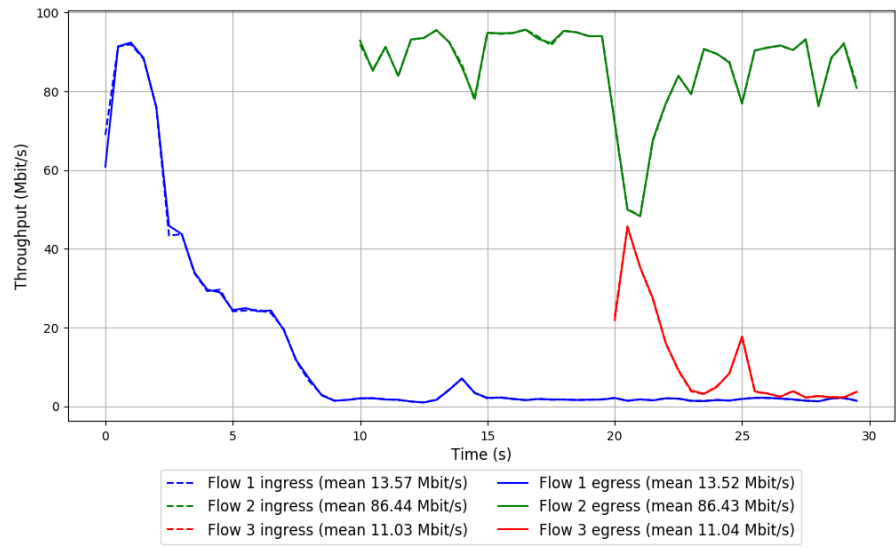
-- Flow 3:

Average throughput: 11.04 Mbit/s

95th percentile per-packet one-way delay: 21.562 ms

Loss rate: 0.00%

# Run 10: Report of TCP Vegas — Data Link



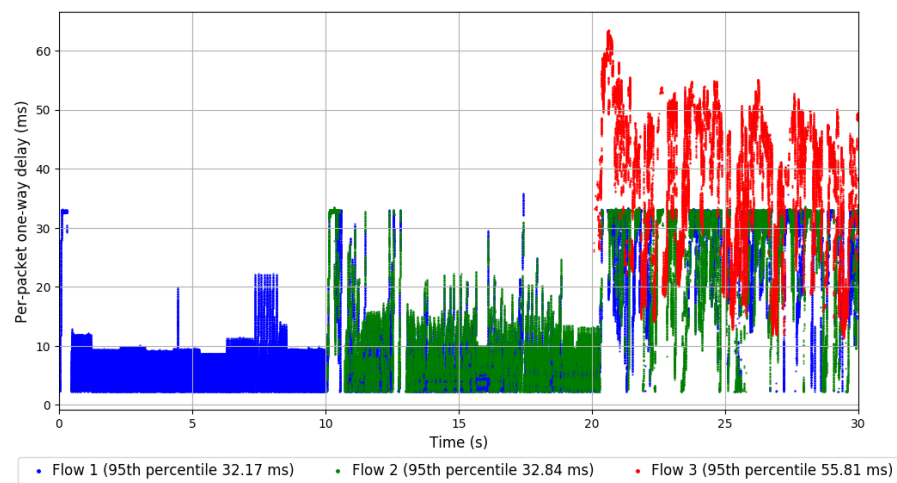
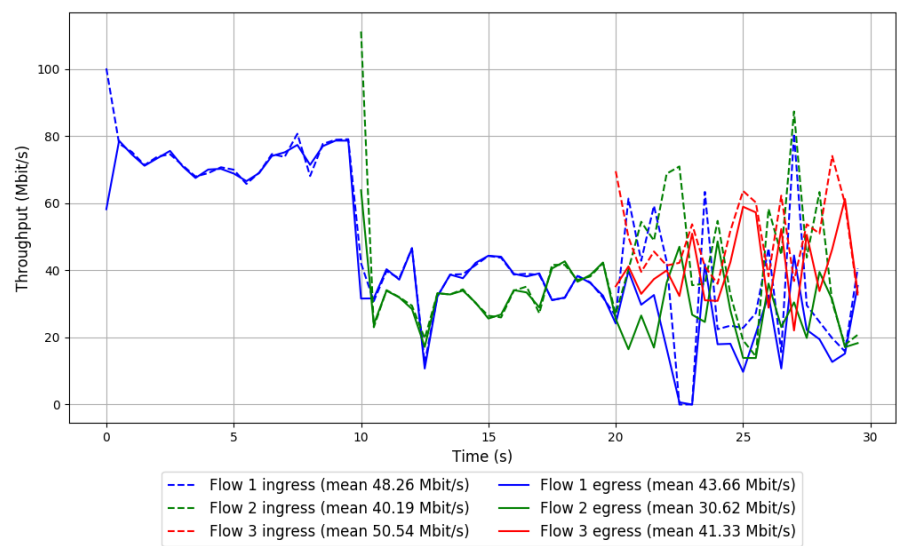
```
Run 1: Statistics of Verus

Start at: 2018-02-04 21:03:26
End at: 2018-02-04 21:03:56
Local clock offset: 0.044 ms
Remote clock offset: 2.232 ms

# Below is generated by plot.py at 2018-02-05 00:56:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 77.69 Mbit/s
95th percentile per-packet one-way delay: 44.752 ms
Loss rate: 15.24%
-- Flow 1:
Average throughput: 43.66 Mbit/s
95th percentile per-packet one-way delay: 32.170 ms
Loss rate: 9.47%
-- Flow 2:
Average throughput: 30.62 Mbit/s
95th percentile per-packet one-way delay: 32.835 ms
Loss rate: 23.72%
-- Flow 3:
Average throughput: 41.33 Mbit/s
95th percentile per-packet one-way delay: 55.806 ms
Loss rate: 18.34%
```



Run 1: Report of Verus — Data Link

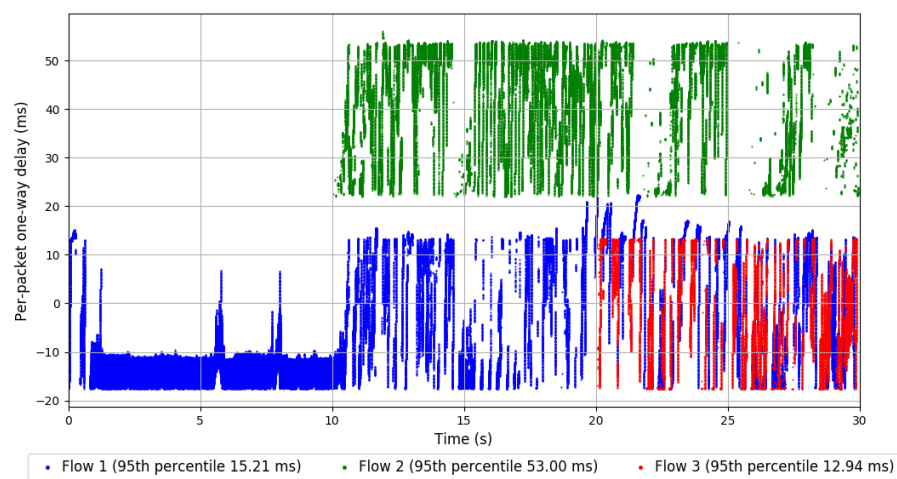
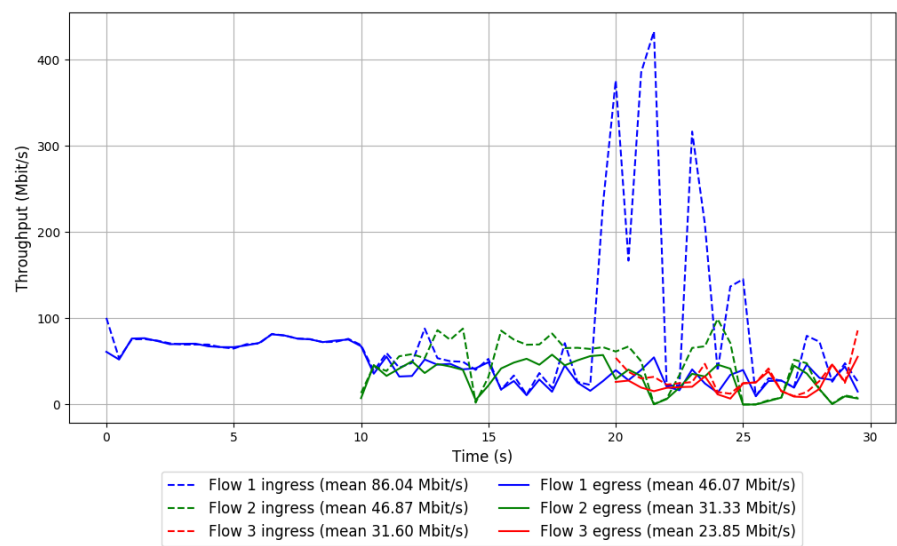


Run 2: Statistics of Verus

Start at: 2018-02-04 21:24:04  
End at: 2018-02-04 21:24:34  
Local clock offset: 0.042 ms  
Remote clock offset: -17.699 ms

# Below is generated by plot.py at 2018-02-05 00:56:52  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 74.51 Mbit/s  
95th percentile per-packet one-way delay: 51.203 ms  
Loss rate: 41.38%  
-- Flow 1:  
Average throughput: 46.07 Mbit/s  
95th percentile per-packet one-way delay: 15.214 ms  
Loss rate: 46.40%  
-- Flow 2:  
Average throughput: 31.33 Mbit/s  
95th percentile per-packet one-way delay: 52.996 ms  
Loss rate: 33.30%  
-- Flow 3:  
Average throughput: 23.85 Mbit/s  
95th percentile per-packet one-way delay: 12.937 ms  
Loss rate: 24.29%

Run 2: Report of Verus — Data Link

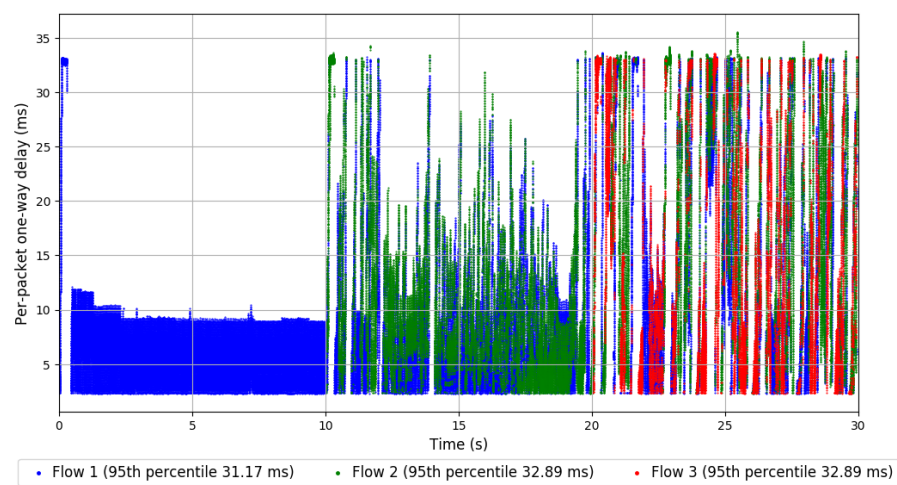
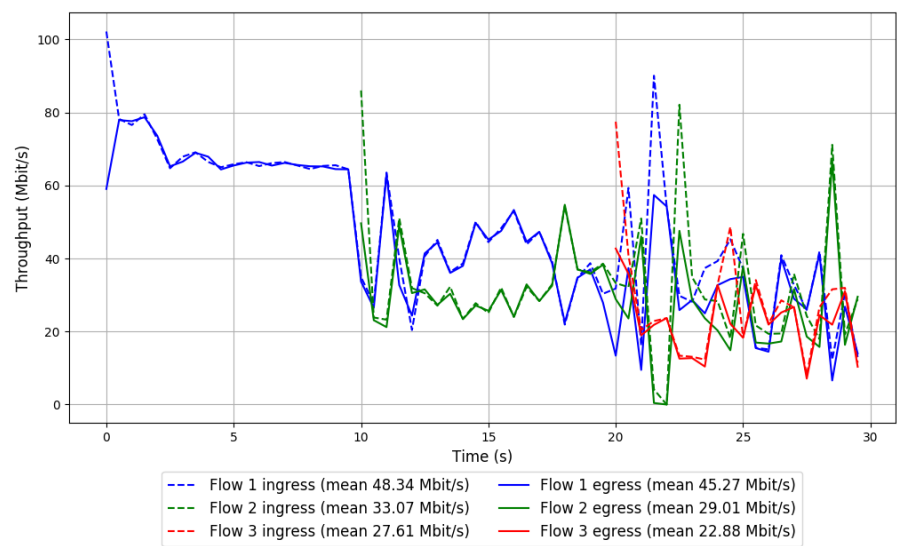


Run 3: Statistics of Verus

Start at: 2018-02-04 21:44:31  
End at: 2018-02-04 21:45:01  
Local clock offset: -0.048 ms  
Remote clock offset: 2.008 ms

# Below is generated by plot.py at 2018-02-05 00:56:52  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 72.14 Mbit/s  
95th percentile per-packet one-way delay: 32.696 ms  
Loss rate: 9.15%  
-- Flow 1:  
Average throughput: 45.27 Mbit/s  
95th percentile per-packet one-way delay: 31.172 ms  
Loss rate: 6.33%  
-- Flow 2:  
Average throughput: 29.01 Mbit/s  
95th percentile per-packet one-way delay: 32.892 ms  
Loss rate: 12.14%  
-- Flow 3:  
Average throughput: 22.88 Mbit/s  
95th percentile per-packet one-way delay: 32.891 ms  
Loss rate: 16.87%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-02-04 22:04:55

End at: 2018-02-04 22:05:25

Local clock offset: 0.015 ms

Remote clock offset: 2.93 ms

# Below is generated by plot.py at 2018-02-05 00:56:52

# Datalink statistics

-- Total of 3 flows:

Average throughput: 68.48 Mbit/s

95th percentile per-packet one-way delay: 72.568 ms

Loss rate: 27.73%

-- Flow 1:

Average throughput: 40.53 Mbit/s

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

Loss rate: 23.37%

-- Flow 2:

Average throughput: 33.35 Mbit/s

95th percentile per-packet one-way delay: 35.401 ms

Loss rate: 24.65%

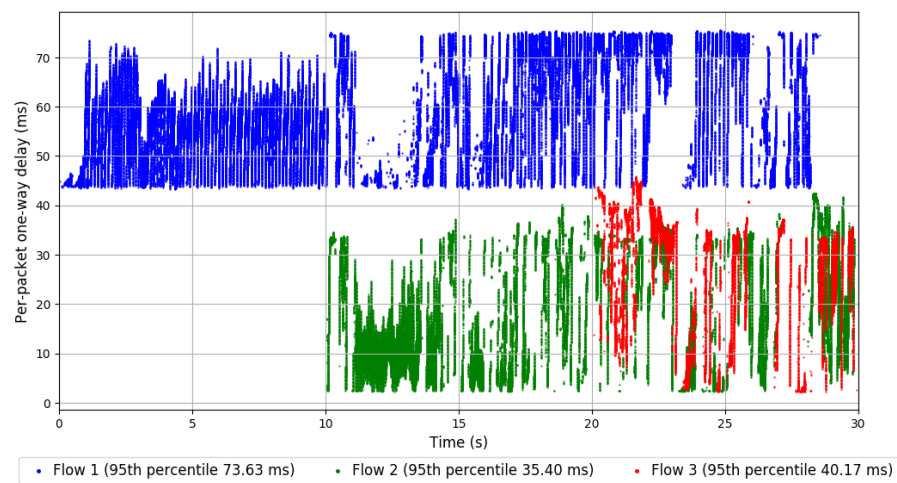
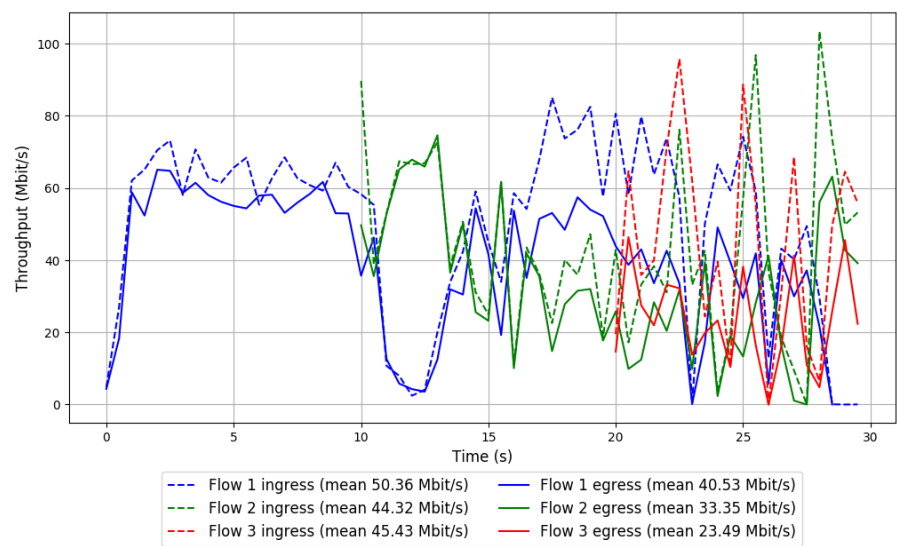
-- Flow 3:

Average throughput: 23.49 Mbit/s

95th percentile per-packet one-way delay: 40.175 ms

Loss rate: 48.36%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-02-04 22:25:26

End at: 2018-02-04 22:25:56

Local clock offset: 0.008 ms

Remote clock offset: 3.238 ms

# Below is generated by plot.py at 2018-02-05 00:57:10

# Datalink statistics

-- Total of 3 flows:

Average throughput: 78.11 Mbit/s

95th percentile per-packet one-way delay: 31.097 ms

Loss rate: 5.55%

-- Flow 1:

Average throughput: 47.73 Mbit/s

95th percentile per-packet one-way delay: 28.780 ms

Loss rate: 3.94%

-- Flow 2:

Average throughput: 32.36 Mbit/s

95th percentile per-packet one-way delay: 32.143 ms

Loss rate: 6.03%

-- Flow 3:

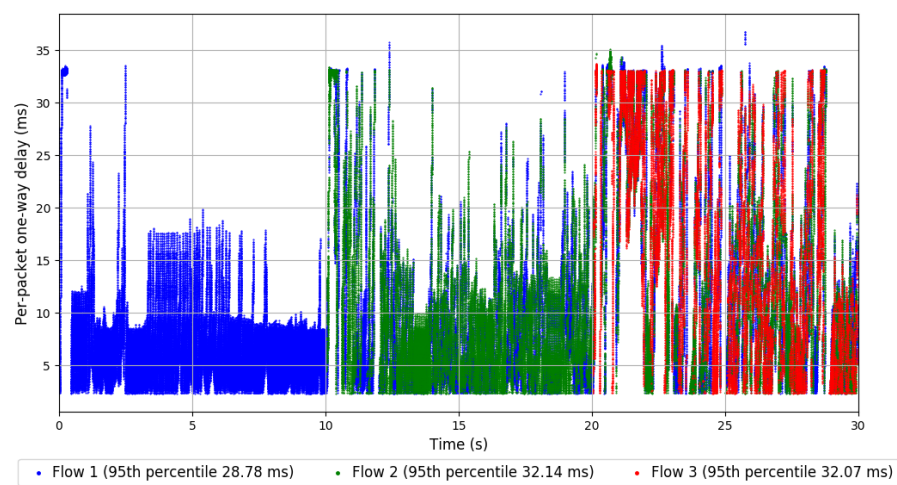
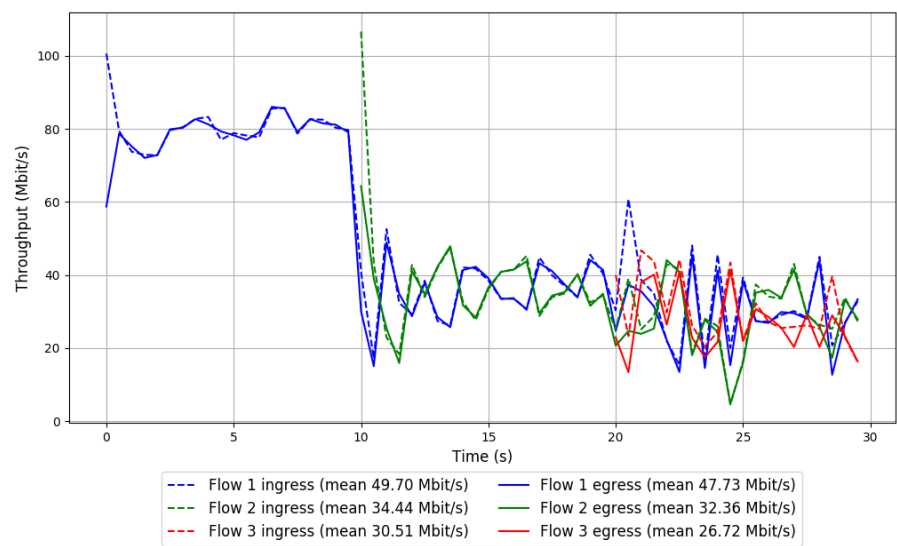
Average throughput: 26.72 Mbit/s

95th percentile per-packet one-way delay: 32.072 ms

Loss rate: 12.40%



Run 5: Report of Verus — Data Link

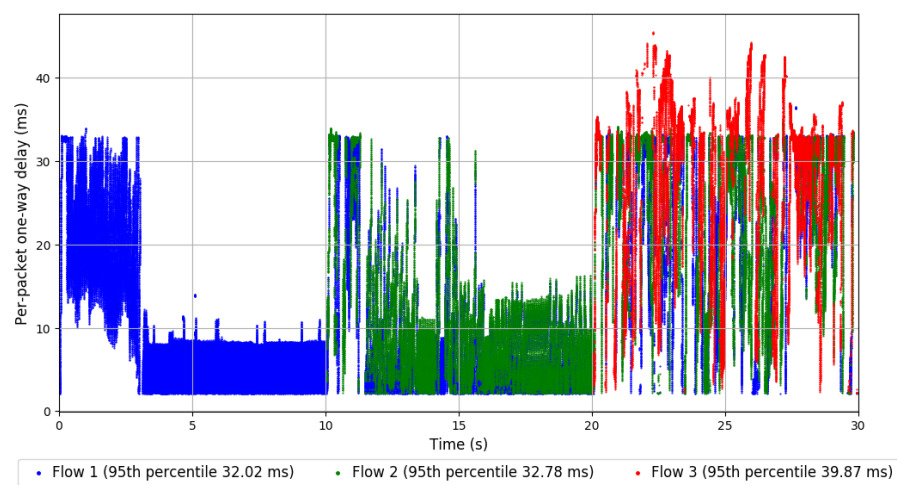
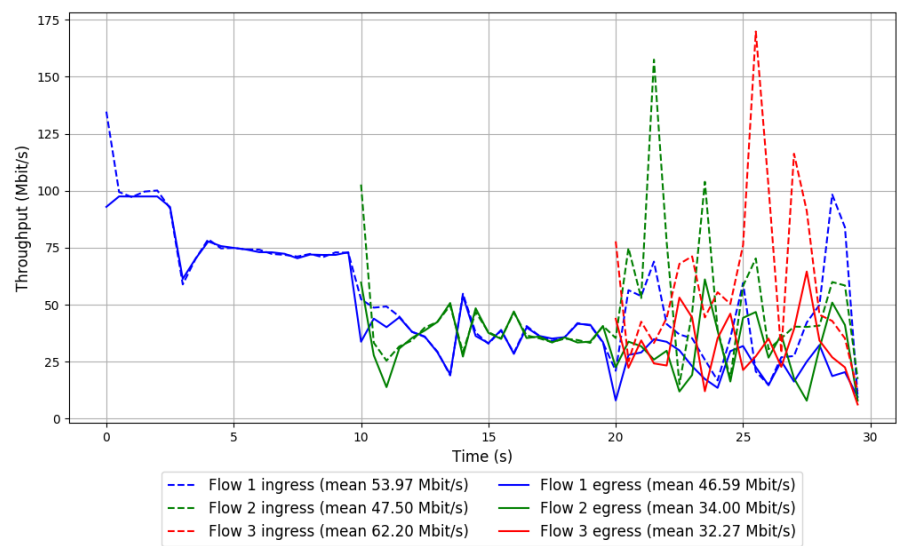


Run 6: Statistics of Verus

Start at: 2018-02-04 22:46:05  
End at: 2018-02-04 22:46:35  
Local clock offset: -0.003 ms  
Remote clock offset: 2.837 ms

# Below is generated by plot.py at 2018-02-05 00:57:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 79.72 Mbit/s  
95th percentile per-packet one-way delay: 32.935 ms  
Loss rate: 24.70%  
-- Flow 1:  
Average throughput: 46.59 Mbit/s  
95th percentile per-packet one-way delay: 32.016 ms  
Loss rate: 13.67%  
-- Flow 2:  
Average throughput: 34.00 Mbit/s  
95th percentile per-packet one-way delay: 32.784 ms  
Loss rate: 28.30%  
-- Flow 3:  
Average throughput: 32.27 Mbit/s  
95th percentile per-packet one-way delay: 39.872 ms  
Loss rate: 48.12%

Run 6: Report of Verus — Data Link

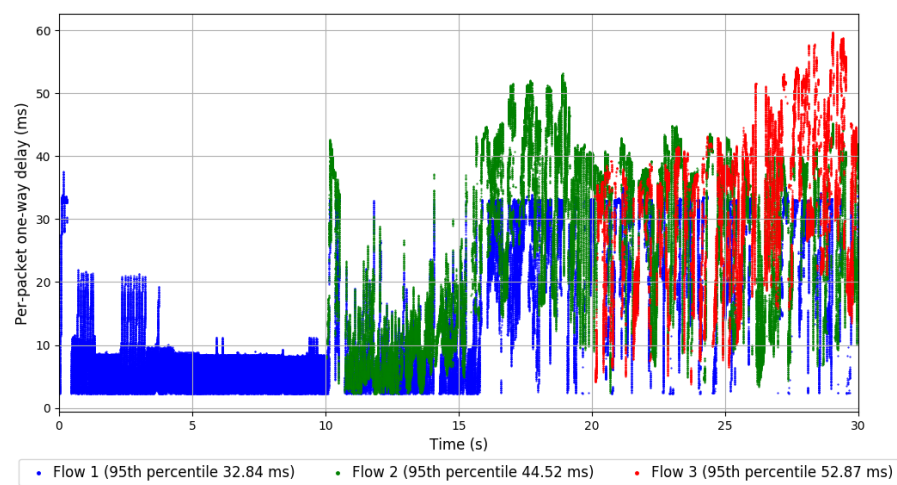
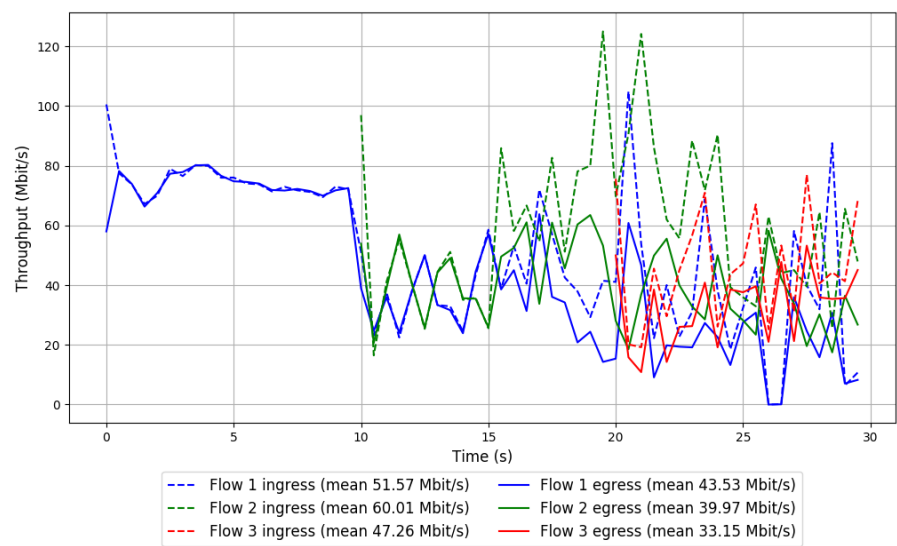


Run 7: Statistics of Verus

Start at: 2018-02-04 23:06:38  
End at: 2018-02-04 23:07:08  
Local clock offset: -0.034 ms  
Remote clock offset: 2.661 ms

# Below is generated by plot.py at 2018-02-05 00:57:36  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 81.01 Mbit/s  
95th percentile per-packet one-way delay: 43.082 ms  
Loss rate: 24.19%  
-- Flow 1:  
Average throughput: 43.53 Mbit/s  
95th percentile per-packet one-way delay: 32.844 ms  
Loss rate: 15.51%  
-- Flow 2:  
Average throughput: 39.97 Mbit/s  
95th percentile per-packet one-way delay: 44.516 ms  
Loss rate: 33.29%  
-- Flow 3:  
Average throughput: 33.15 Mbit/s  
95th percentile per-packet one-way delay: 52.874 ms  
Loss rate: 29.65%

Run 7: Report of Verus — Data Link

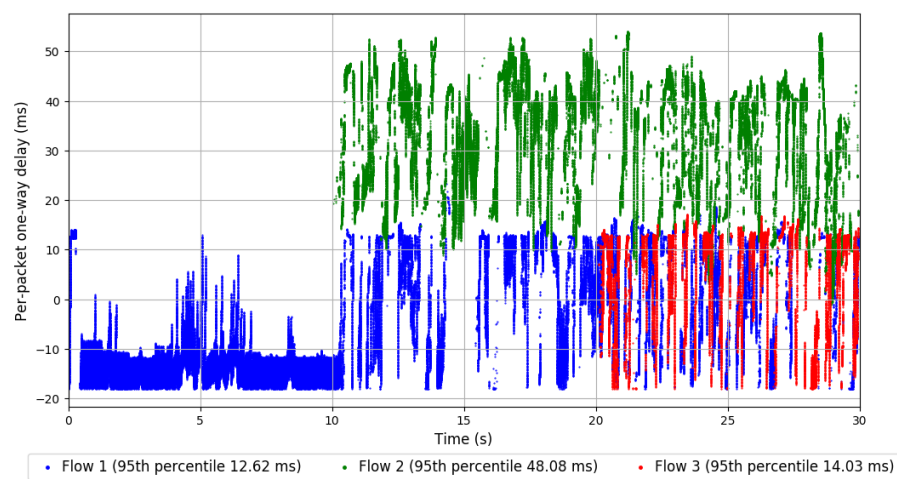
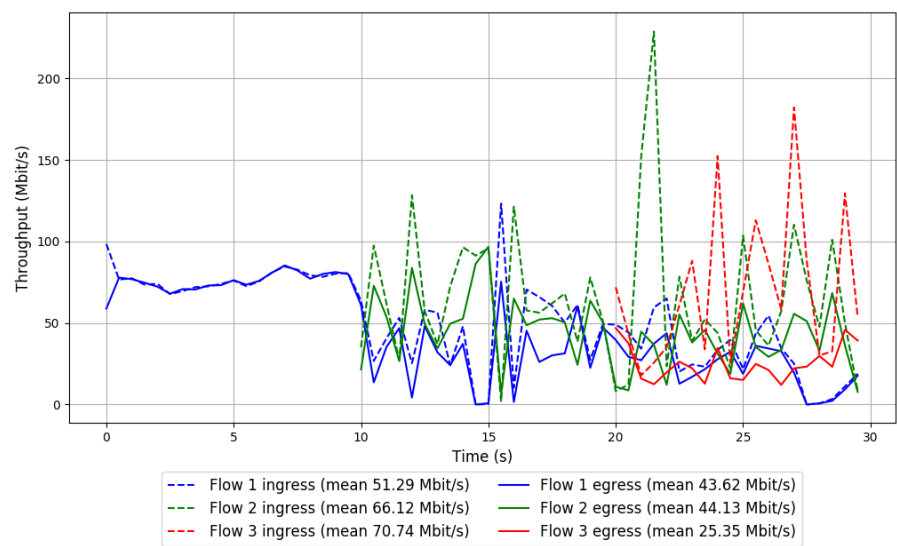


Run 8: Statistics of Verus

Start at: 2018-02-04 23:27:15  
End at: 2018-02-04 23:27:45  
Local clock offset: 0.006 ms  
Remote clock offset: -17.679 ms

# Below is generated by plot.py at 2018-02-05 00:57:46  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 81.31 Mbit/s  
95th percentile per-packet one-way delay: 45.217 ms  
Loss rate: 31.39%  
-- Flow 1:  
Average throughput: 43.62 Mbit/s  
95th percentile per-packet one-way delay: 12.617 ms  
Loss rate: 14.87%  
-- Flow 2:  
Average throughput: 44.13 Mbit/s  
95th percentile per-packet one-way delay: 48.080 ms  
Loss rate: 33.26%  
-- Flow 3:  
Average throughput: 25.35 Mbit/s  
95th percentile per-packet one-way delay: 14.034 ms  
Loss rate: 64.12%

Run 8: Report of Verus — Data Link



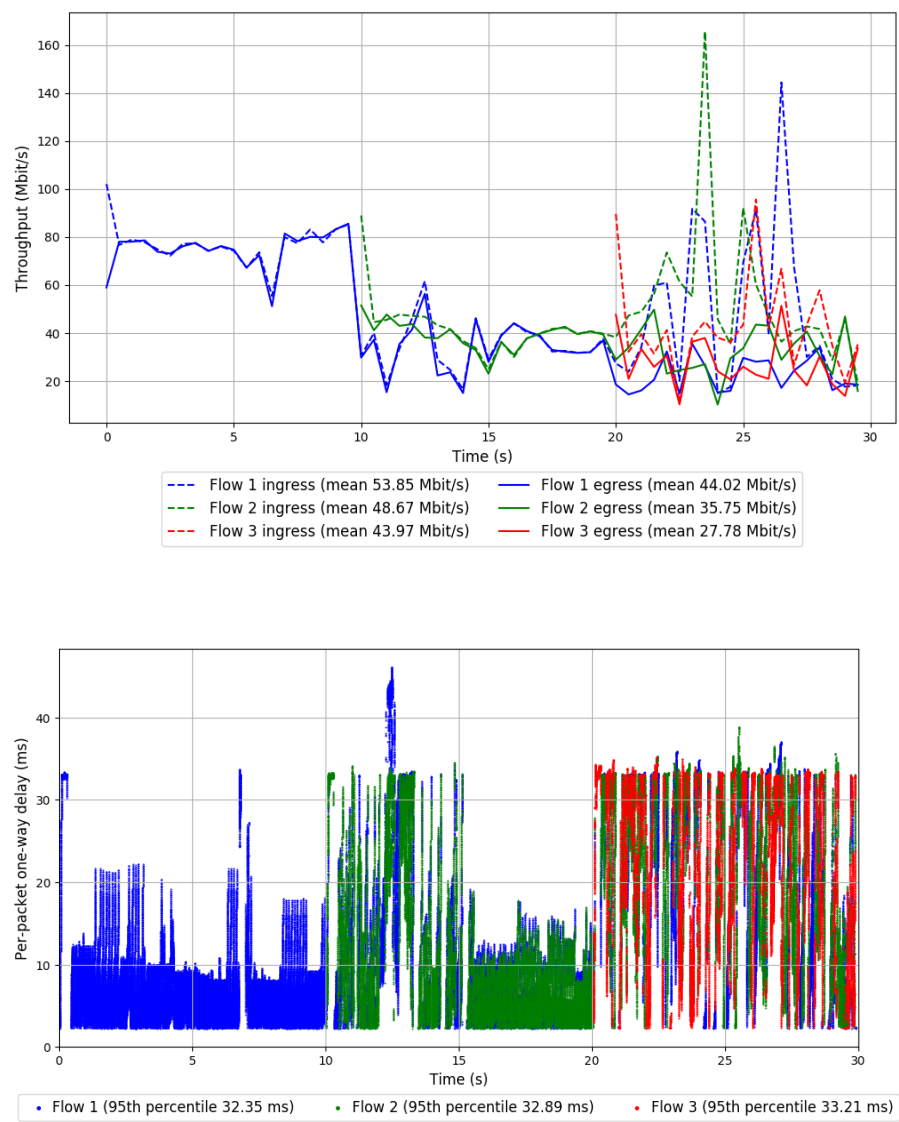
Run 9: Statistics of Verus

Start at: 2018-02-04 23:48:05  
End at: 2018-02-04 23:48:35  
Local clock offset: -0.011 ms  
Remote clock offset: 2.688 ms

# Below is generated by plot.py at 2018-02-05 00:57:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 76.94 Mbit/s  
95th percentile per-packet one-way delay: 32.855 ms  
Loss rate: 23.57%  
-- Flow 1:  
Average throughput: 44.02 Mbit/s  
95th percentile per-packet one-way delay: 32.352 ms  
Loss rate: 18.26%  
-- Flow 2:  
Average throughput: 35.75 Mbit/s  
95th percentile per-packet one-way delay: 32.892 ms  
Loss rate: 26.45%  
-- Flow 3:  
Average throughput: 27.78 Mbit/s  
95th percentile per-packet one-way delay: 33.214 ms  
Loss rate: 36.88%



Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-02-05 00:08:55

End at: 2018-02-05 00:09:25

Local clock offset: -0.002 ms

Remote clock offset: 2.29 ms

# Below is generated by plot.py at 2018-02-05 00:58:02

# Datalink statistics

-- Total of 3 flows:

Average throughput: 73.05 Mbit/s

95th percentile per-packet one-way delay: 72.738 ms

Loss rate: 51.36%

-- Flow 1:

Average throughput: 34.51 Mbit/s

95th percentile per-packet one-way delay: 73.871 ms

Loss rate: 33.75%

-- Flow 2:

Average throughput: 39.07 Mbit/s

95th percentile per-packet one-way delay: 68.037 ms

Loss rate: 64.07%

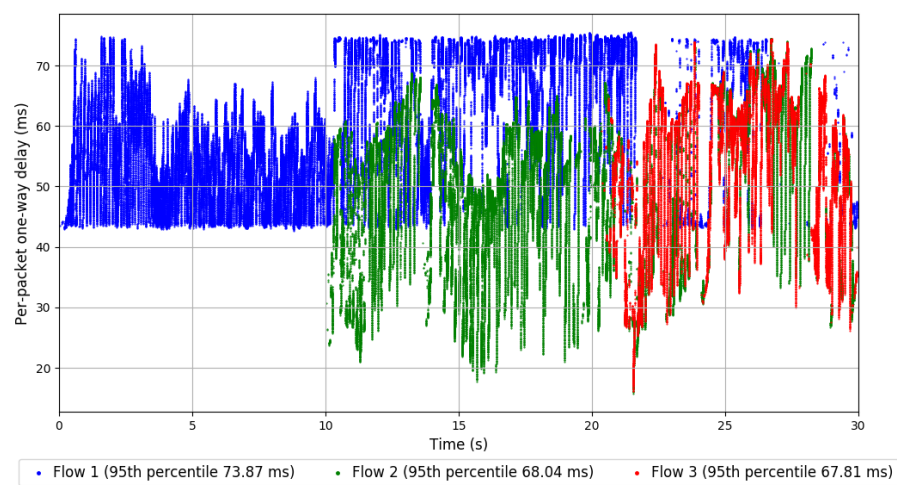
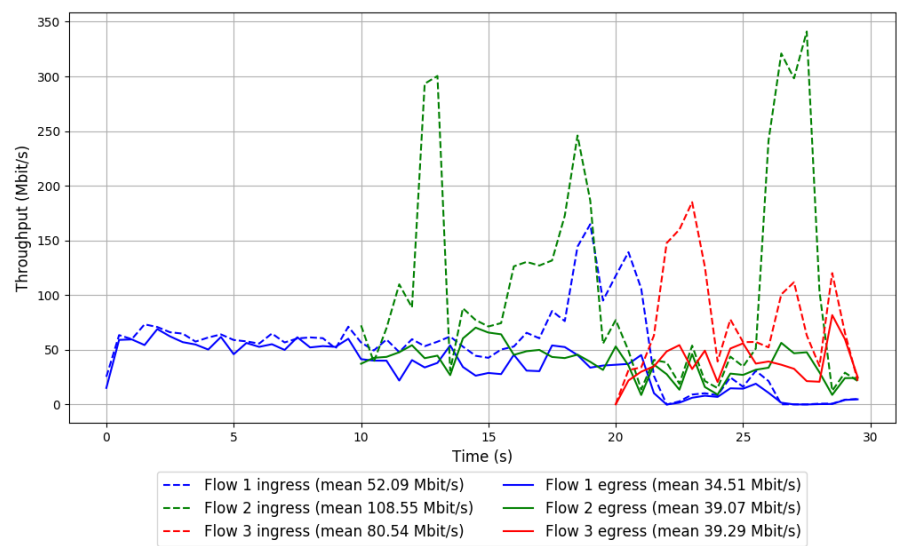
-- Flow 3:

Average throughput: 39.29 Mbit/s

95th percentile per-packet one-way delay: 67.807 ms

Loss rate: 51.33%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2018-02-04 21:01:08

End at: 2018-02-04 21:01:38

Local clock offset: -0.022 ms

Remote clock offset: 2.297 ms

# Below is generated by plot.py at 2018-02-05 00:59:04

# Datalink statistics

-- Total of 3 flows:

Average throughput: 87.22 Mbit/s

95th percentile per-packet one-way delay: 3.072 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 49.09 Mbit/s

95th percentile per-packet one-way delay: 2.966 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 40.96 Mbit/s

95th percentile per-packet one-way delay: 3.081 ms

Loss rate: 0.00%

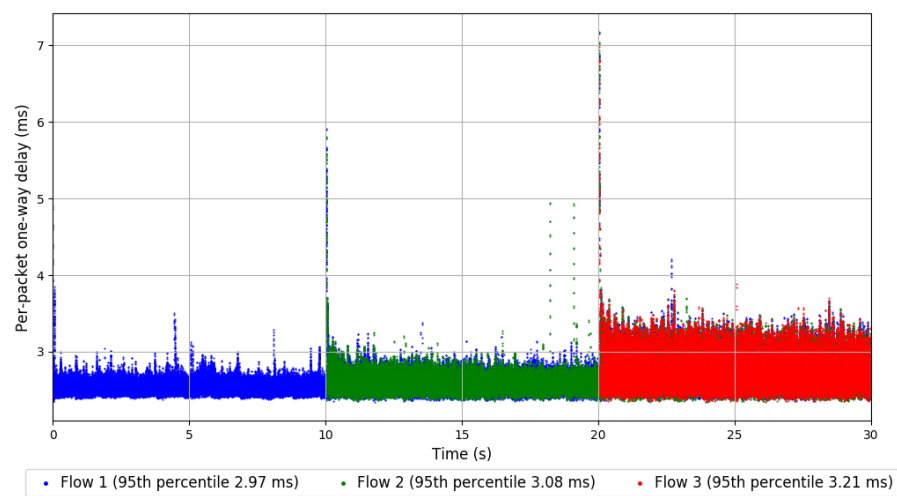
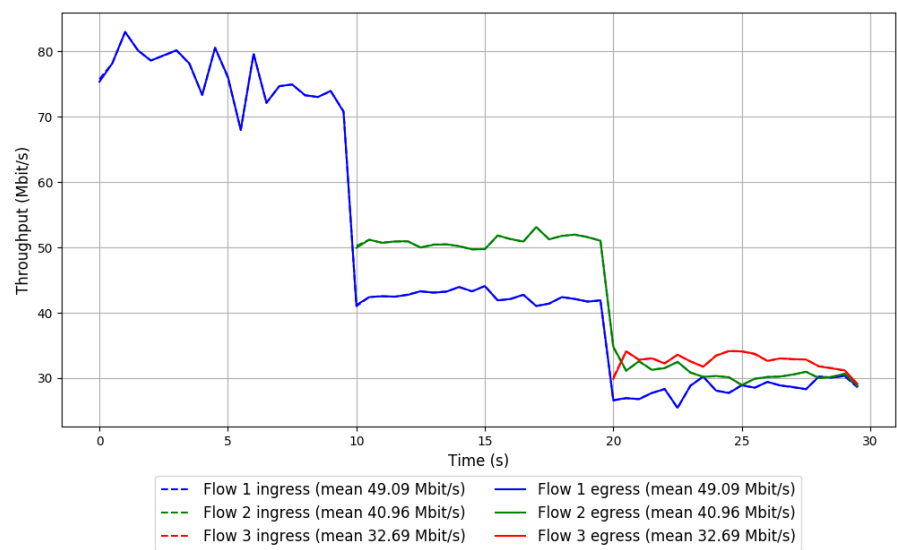
-- Flow 3:

Average throughput: 32.69 Mbit/s

95th percentile per-packet one-way delay: 3.208 ms

Loss rate: 0.00%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-02-04 21:21:45

End at: 2018-02-04 21:22:15

Local clock offset: 0.077 ms

Remote clock offset: 2.175 ms

# Below is generated by plot.py at 2018-02-05 00:59:04

# Datalink statistics

-- Total of 3 flows:

Average throughput: 74.56 Mbit/s

95th percentile per-packet one-way delay: 3.092 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 34.11 Mbit/s

95th percentile per-packet one-way delay: 3.221 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 43.48 Mbit/s

95th percentile per-packet one-way delay: 2.946 ms

Loss rate: 0.00%

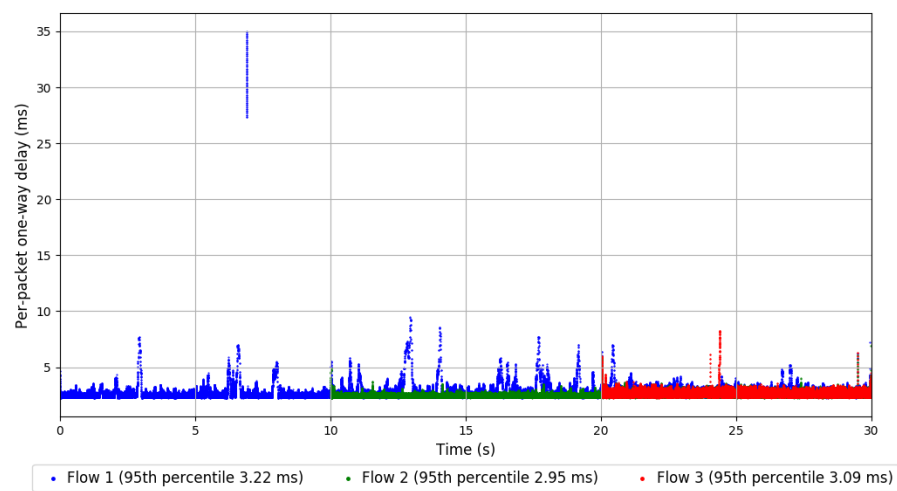
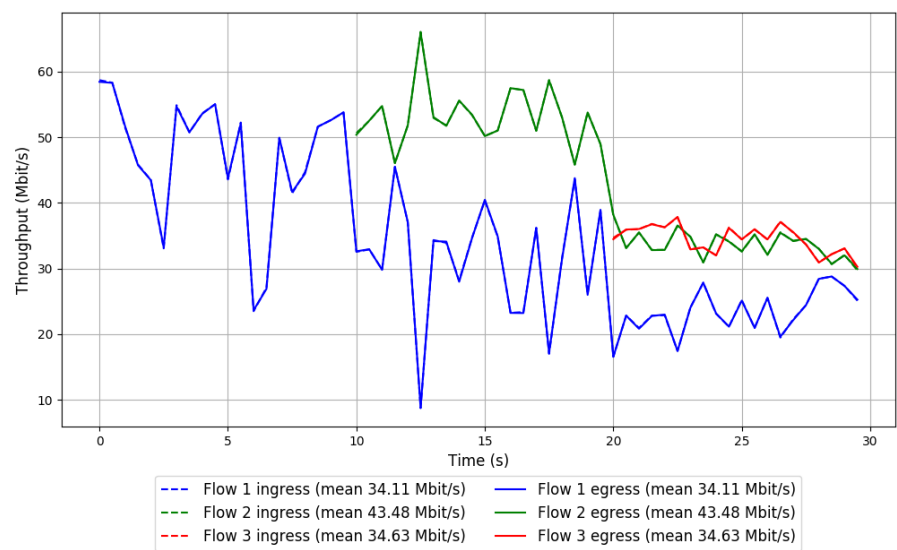
-- Flow 3:

Average throughput: 34.63 Mbit/s

95th percentile per-packet one-way delay: 3.088 ms

Loss rate: 0.00%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-02-04 21:42:15

End at: 2018-02-04 21:42:45

Local clock offset: 0.033 ms

Remote clock offset: 2.081 ms

# Below is generated by plot.py at 2018-02-05 00:59:04

# Datalink statistics

-- Total of 3 flows:

Average throughput: 45.09 Mbit/s

95th percentile per-packet one-way delay: 9.247 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.14 Mbit/s

95th percentile per-packet one-way delay: 37.918 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 56.84 Mbit/s

95th percentile per-packet one-way delay: 2.683 ms

Loss rate: 0.00%

-- Flow 3:

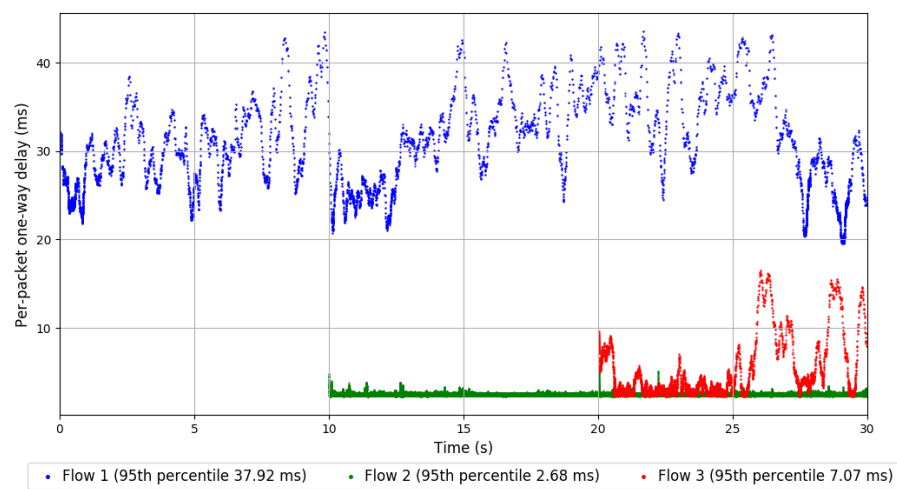
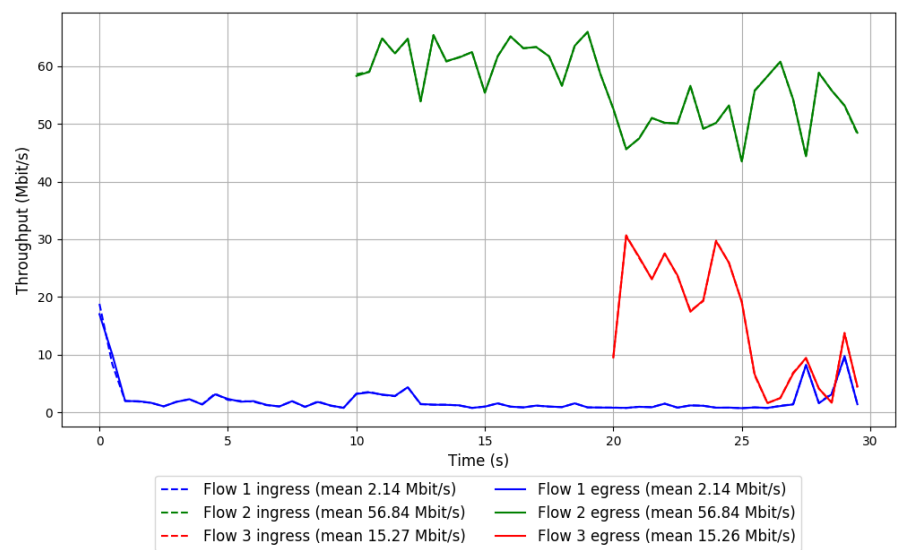
Average throughput: 15.26 Mbit/s

95th percentile per-packet one-way delay: 7.072 ms

Loss rate: 0.00%



Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-02-04 22:02:43

End at: 2018-02-04 22:03:13

Local clock offset: 0.041 ms

Remote clock offset: 2.736 ms

# Below is generated by plot.py at 2018-02-05 00:59:04

# Datalink statistics

-- Total of 3 flows:

Average throughput: 6.11 Mbit/s

95th percentile per-packet one-way delay: 21.027 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 2.48 Mbit/s

95th percentile per-packet one-way delay: 21.002 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 2.73 Mbit/s

95th percentile per-packet one-way delay: 21.195 ms

Loss rate: 0.05%

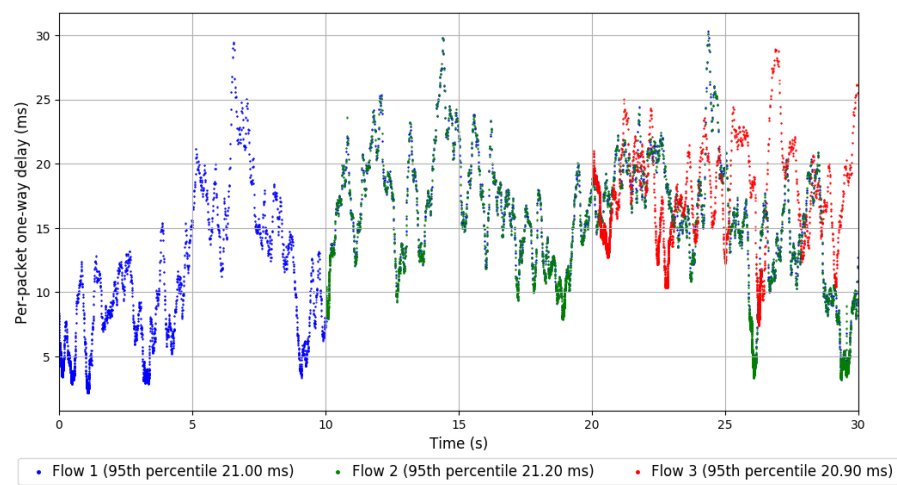
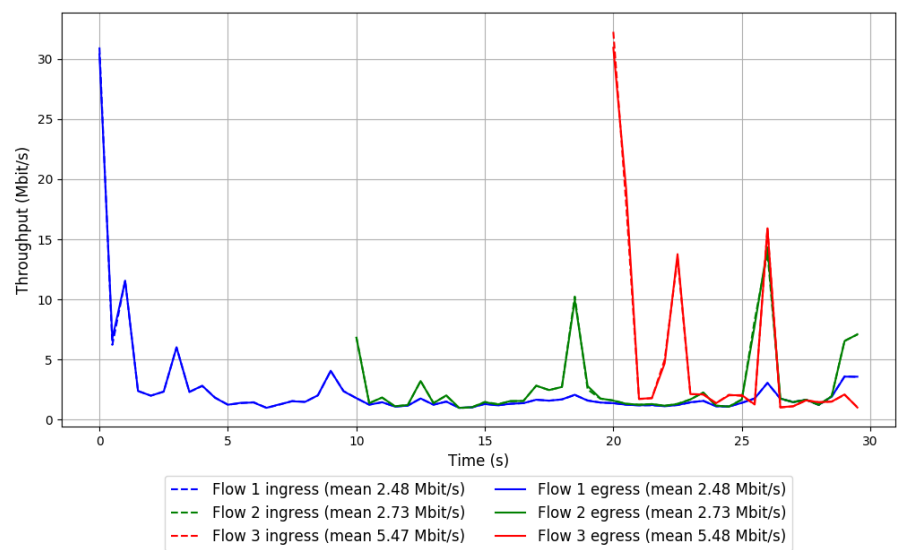
-- Flow 3:

Average throughput: 5.48 Mbit/s

95th percentile per-packet one-way delay: 20.903 ms

Loss rate: 0.05%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-02-04 22:23:09

End at: 2018-02-04 22:23:39

Local clock offset: 0.035 ms

Remote clock offset: 3.209 ms

# Below is generated by plot.py at 2018-02-05 00:59:32

# Datalink statistics

-- Total of 3 flows:

Average throughput: 70.45 Mbit/s

95th percentile per-packet one-way delay: 3.323 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 54.32 Mbit/s

95th percentile per-packet one-way delay: 2.675 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 13.29 Mbit/s

95th percentile per-packet one-way delay: 7.488 ms

Loss rate: 0.00%

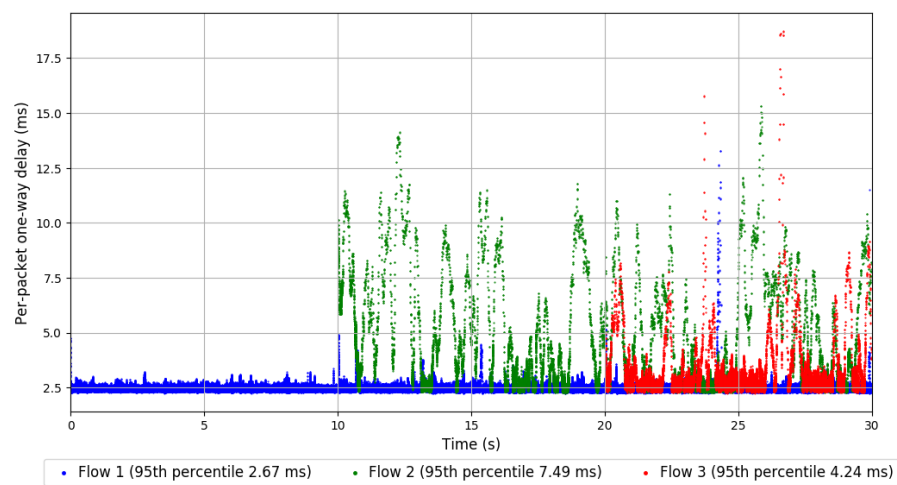
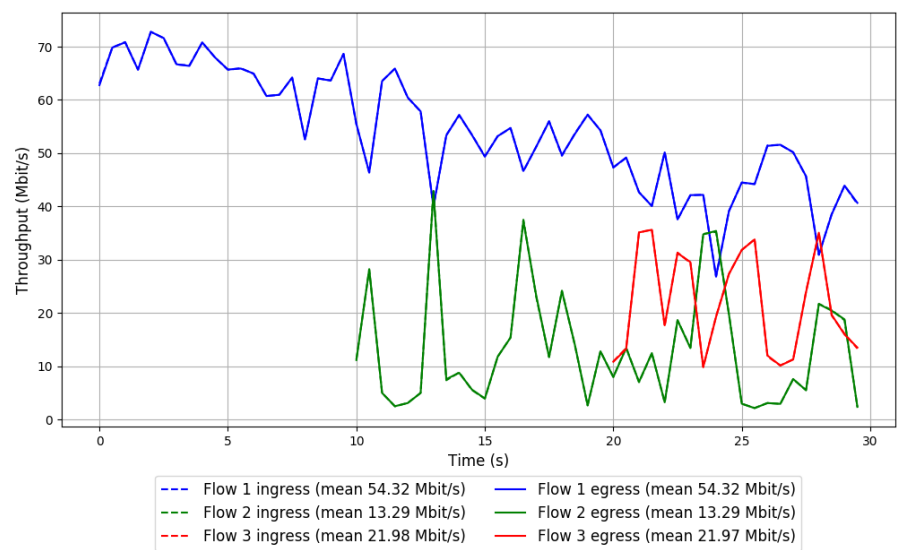
-- Flow 3:

Average throughput: 21.97 Mbit/s

95th percentile per-packet one-way delay: 4.238 ms

Loss rate: 0.01%

Run 5: Report of Copa — Data Link

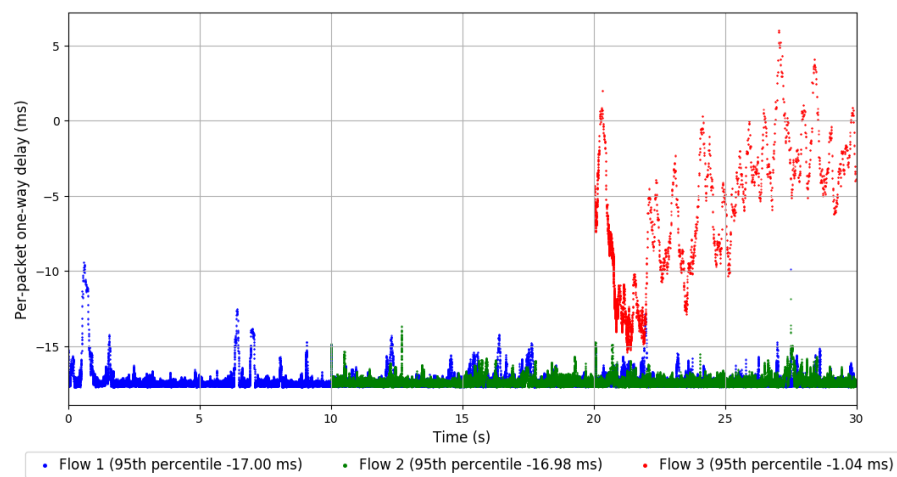
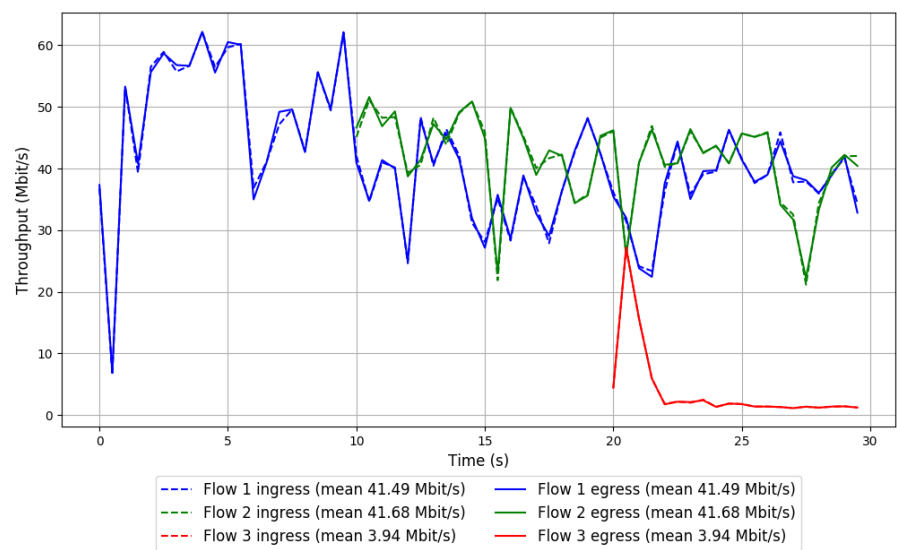


Run 6: Statistics of Copa

Start at: 2018-02-04 22:43:46  
End at: 2018-02-04 22:44:16  
Local clock offset: 0.016 ms  
Remote clock offset: -16.96 ms

```
# Below is generated by plot.py at 2018-02-05 00:59:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 70.54 Mbit/s
95th percentile per-packet one-way delay: -16.810 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 41.49 Mbit/s
95th percentile per-packet one-way delay: -17.001 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 41.68 Mbit/s
95th percentile per-packet one-way delay: -16.981 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.94 Mbit/s
95th percentile per-packet one-way delay: -1.041 ms
Loss rate: 0.03%
```

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-02-04 23:04:19

End at: 2018-02-04 23:04:49

Local clock offset: 0.019 ms

Remote clock offset: 2.724 ms

# Below is generated by plot.py at 2018-02-05 00:59:52

# Datalink statistics

-- Total of 3 flows:

Average throughput: 77.53 Mbit/s

95th percentile per-packet one-way delay: 3.036 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 44.53 Mbit/s

95th percentile per-packet one-way delay: 2.916 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 44.85 Mbit/s

95th percentile per-packet one-way delay: 2.875 ms

Loss rate: 0.00%

-- Flow 3:

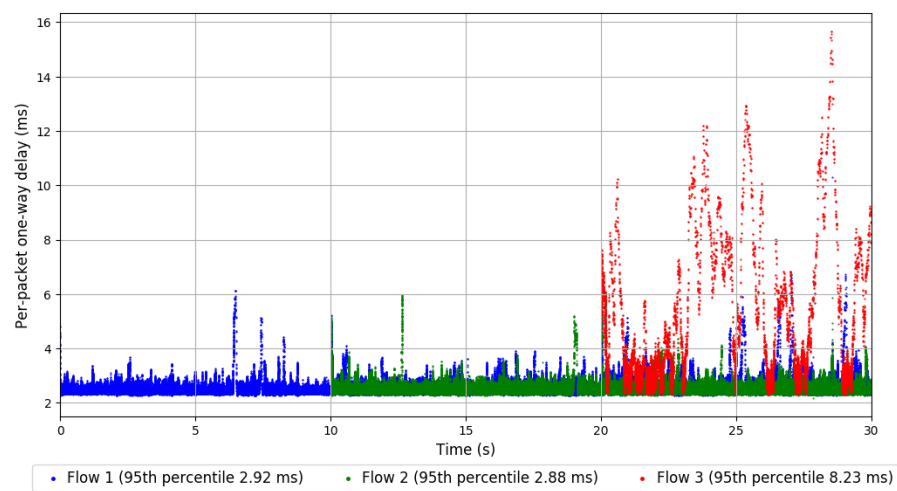
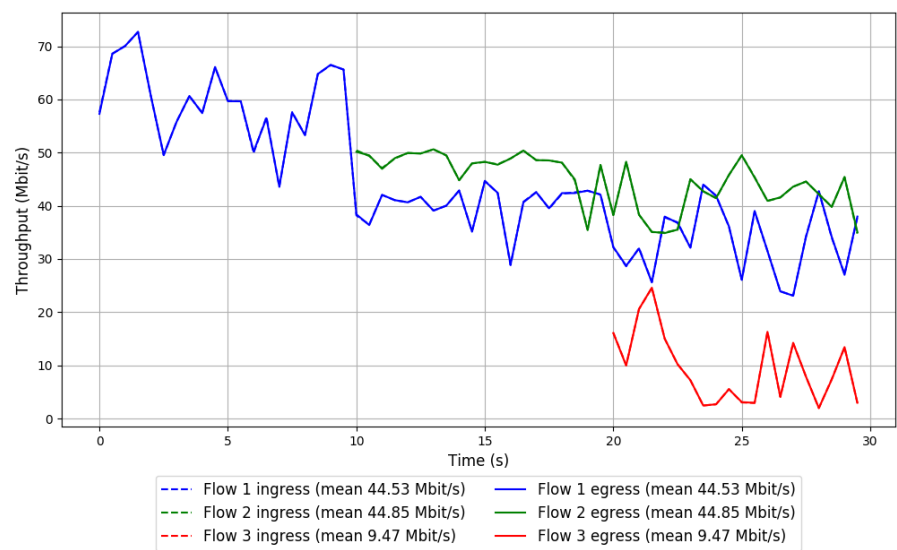
Average throughput: 9.47 Mbit/s

95th percentile per-packet one-way delay: 8.230 ms

Loss rate: 0.00%



Run 7: Report of Copa — Data Link

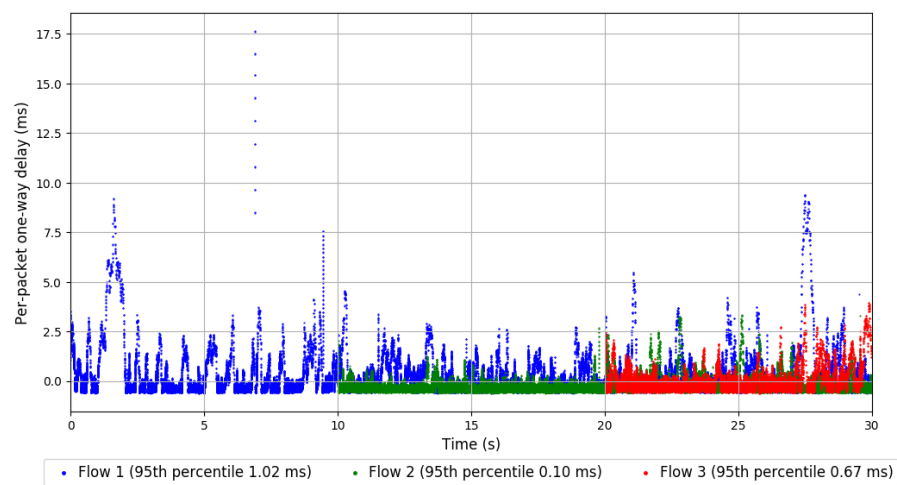
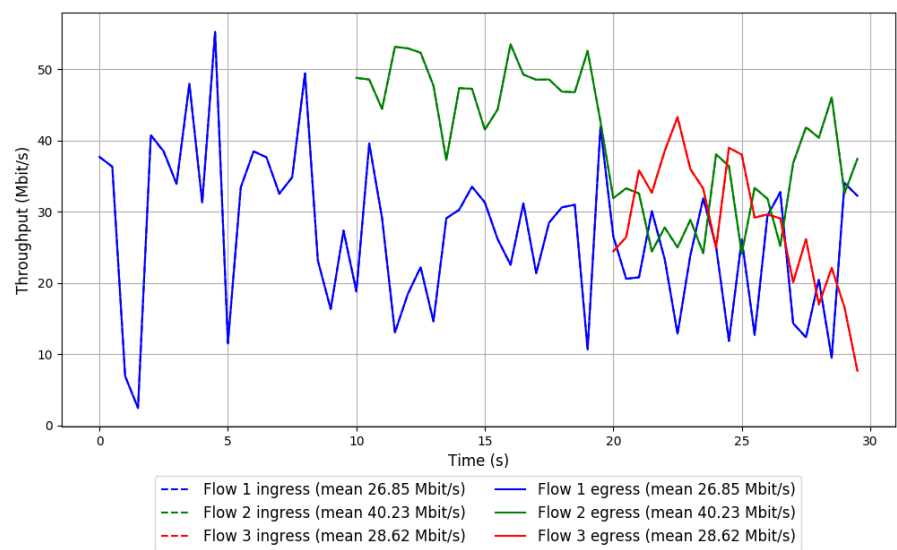


Run 8: Statistics of Copa

Start at: 2018-02-04 23:24:57  
End at: 2018-02-04 23:25:27  
Local clock offset: 0.016 ms  
Remote clock offset: -0.234 ms

# Below is generated by plot.py at 2018-02-05 00:59:52  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 63.14 Mbit/s  
95th percentile per-packet one-way delay: 0.588 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 26.85 Mbit/s  
95th percentile per-packet one-way delay: 1.024 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 40.23 Mbit/s  
95th percentile per-packet one-way delay: 0.103 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 28.62 Mbit/s  
95th percentile per-packet one-way delay: 0.665 ms  
Loss rate: 0.00%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-02-04 23:45:46

End at: 2018-02-04 23:46:16

Local clock offset: -0.027 ms

Remote clock offset: 2.35 ms

# Below is generated by plot.py at 2018-02-05 00:59:52

# Datalink statistics

-- Total of 3 flows:

Average throughput: 39.77 Mbit/s

95th percentile per-packet one-way delay: 18.238 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.10 Mbit/s

95th percentile per-packet one-way delay: 38.930 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 53.58 Mbit/s

95th percentile per-packet one-way delay: 2.454 ms

Loss rate: 0.00%

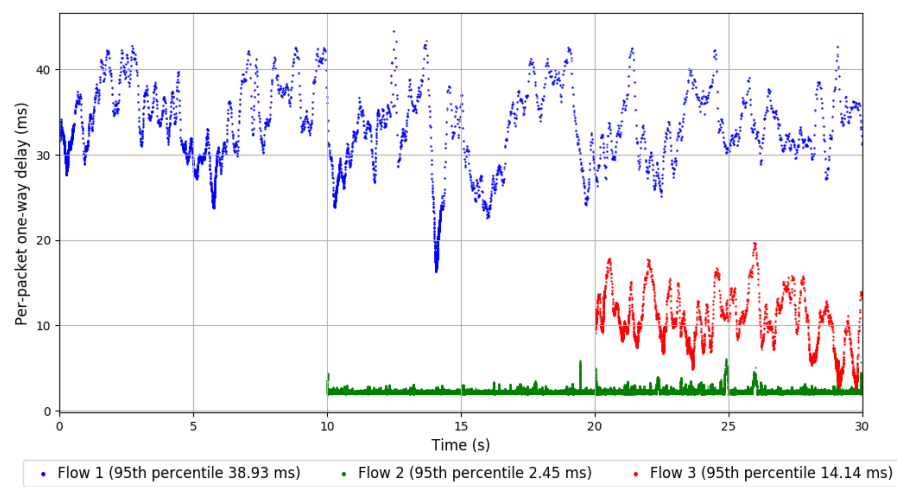
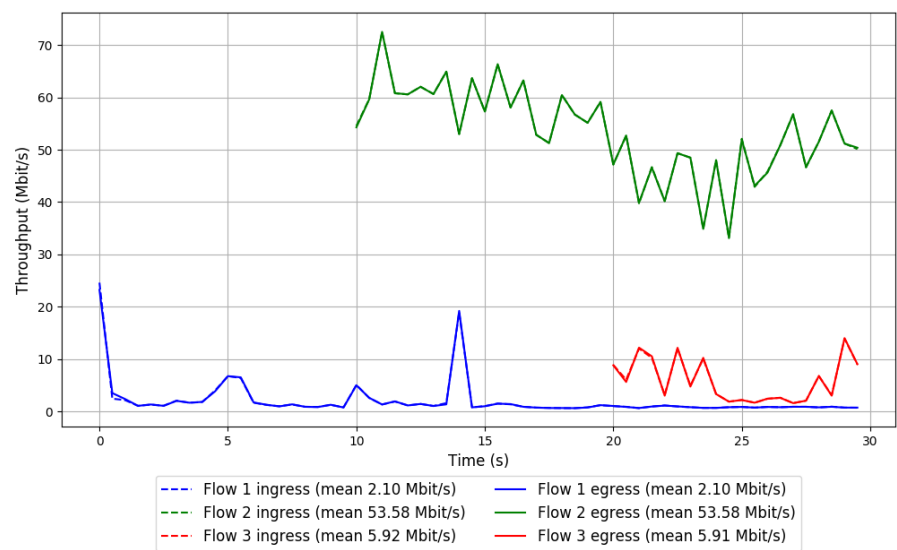
-- Flow 3:

Average throughput: 5.91 Mbit/s

95th percentile per-packet one-way delay: 14.136 ms

Loss rate: 0.00%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-02-05 00:06:37

End at: 2018-02-05 00:07:07

Local clock offset: -0.015 ms

Remote clock offset: -7.96 ms

# Below is generated by plot.py at 2018-02-05 00:59:52

# Datalink statistics

-- Total of 3 flows:

Average throughput: 36.62 Mbit/s

95th percentile per-packet one-way delay: -2.834 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 24.54 Mbit/s

95th percentile per-packet one-way delay: -6.045 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 2.46 Mbit/s

95th percentile per-packet one-way delay: 29.194 ms

Loss rate: 0.13%

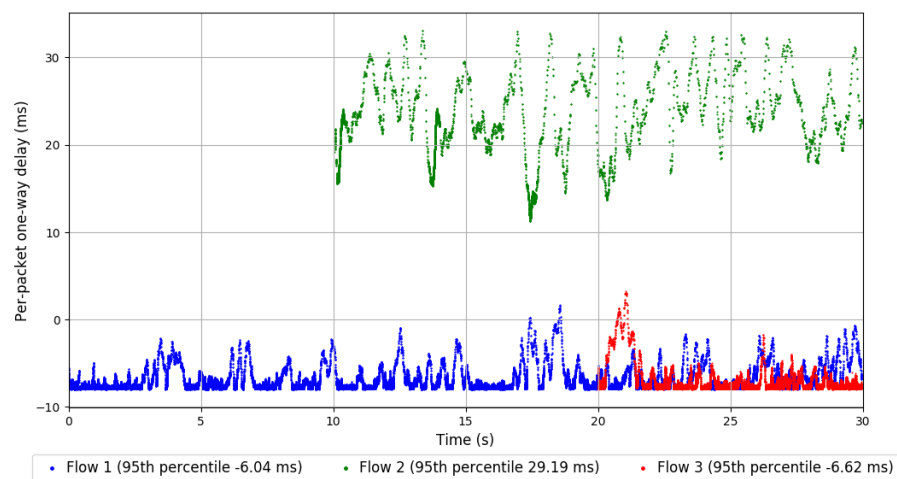
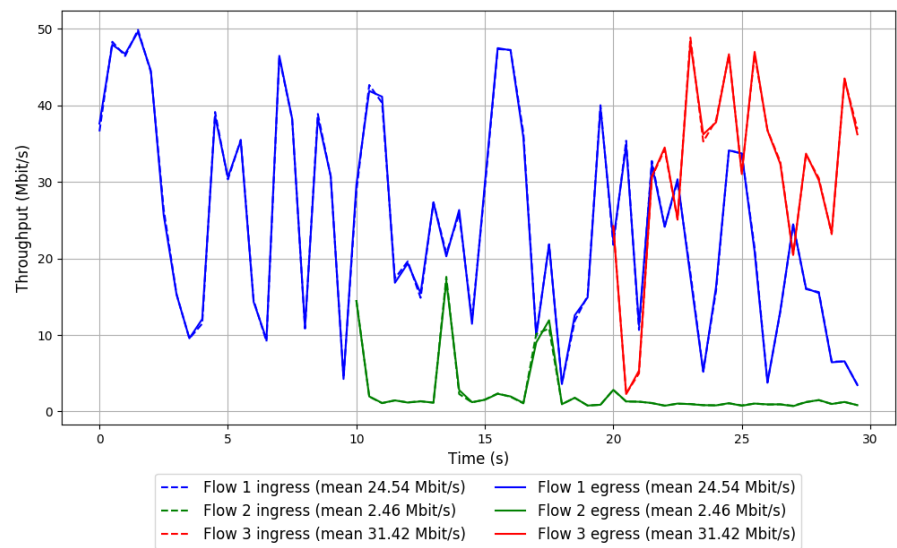
-- Flow 3:

Average throughput: 31.42 Mbit/s

95th percentile per-packet one-way delay: -6.619 ms

Loss rate: 0.00%

Run 10: Report of Copa — Data Link



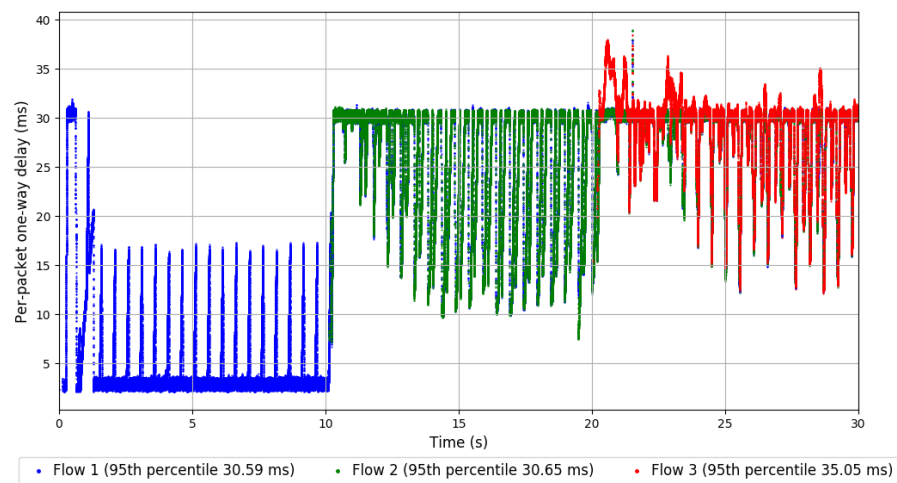
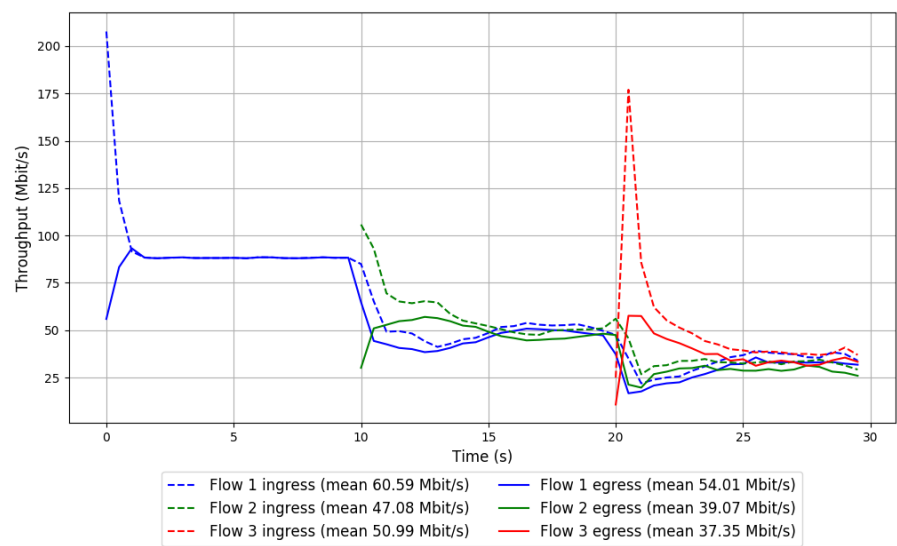
```
Run 1: Statistics of FillP

Start at: 2018-02-04 21:05:46
End at: 2018-02-04 21:06:16
Local clock offset: 0.06 ms
Remote clock offset: 2.23 ms

# Below is generated by plot.py at 2018-02-05 01:01:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.44 Mbit/s
95th percentile per-packet one-way delay: 30.777 ms
Loss rate: 15.01%
-- Flow 1:
Average throughput: 54.01 Mbit/s
95th percentile per-packet one-way delay: 30.594 ms
Loss rate: 10.78%
-- Flow 2:
Average throughput: 39.07 Mbit/s
95th percentile per-packet one-way delay: 30.652 ms
Loss rate: 16.91%
-- Flow 3:
Average throughput: 37.35 Mbit/s
95th percentile per-packet one-way delay: 35.052 ms
Loss rate: 26.63%
```



Run 1: Report of FillP — Data Link

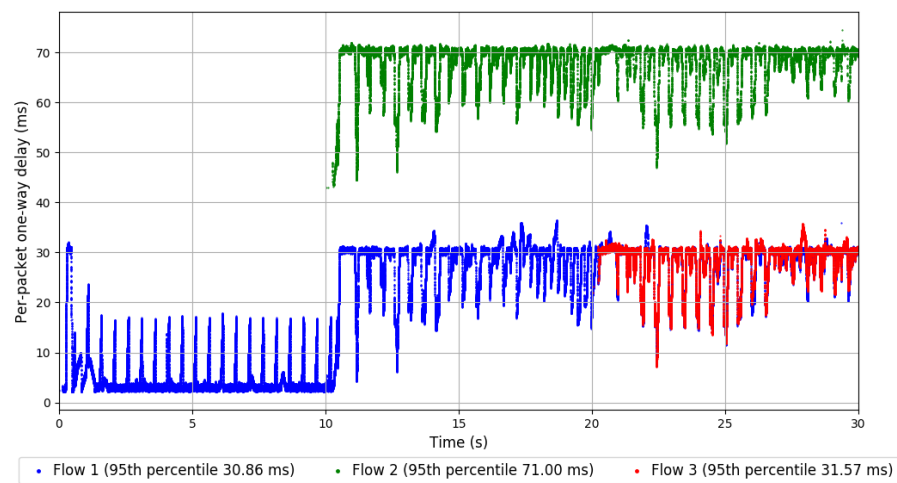
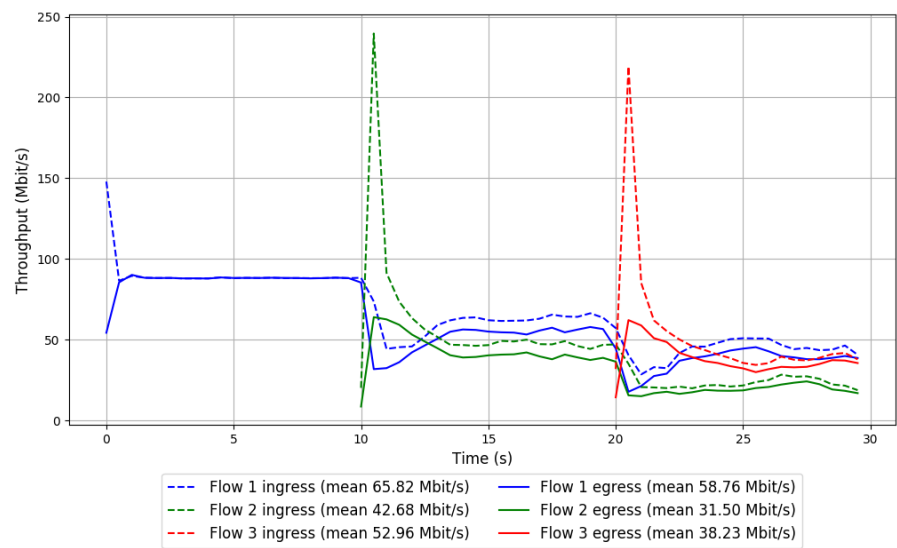


```
Run 2: Statistics of FillP

Start at: 2018-02-04 21:26:23
End at: 2018-02-04 21:26:53
Local clock offset: -0.028 ms
Remote clock offset: 2.103 ms

# Below is generated by plot.py at 2018-02-05 01:01:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.38 Mbit/s
95th percentile per-packet one-way delay: 70.598 ms
Loss rate: 17.29%
-- Flow 1:
Average throughput: 58.76 Mbit/s
95th percentile per-packet one-way delay: 30.858 ms
Loss rate: 10.64%
-- Flow 2:
Average throughput: 31.50 Mbit/s
95th percentile per-packet one-way delay: 70.998 ms
Loss rate: 26.23%
-- Flow 3:
Average throughput: 38.23 Mbit/s
95th percentile per-packet one-way delay: 31.571 ms
Loss rate: 27.75%
```

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-02-04 21:46:51

End at: 2018-02-04 21:47:21

Local clock offset: 0.04 ms

Remote clock offset: 2.044 ms

# Below is generated by plot.py at 2018-02-05 01:01:48

# Datalink statistics

-- Total of 3 flows:

Average throughput: 92.47 Mbit/s

95th percentile per-packet one-way delay: 33.694 ms

Loss rate: 16.36%

-- Flow 1:

Average throughput: 53.10 Mbit/s

95th percentile per-packet one-way delay: 33.634 ms

Loss rate: 11.25%

-- Flow 2:

Average throughput: 38.88 Mbit/s

95th percentile per-packet one-way delay: 34.481 ms

Loss rate: 20.28%

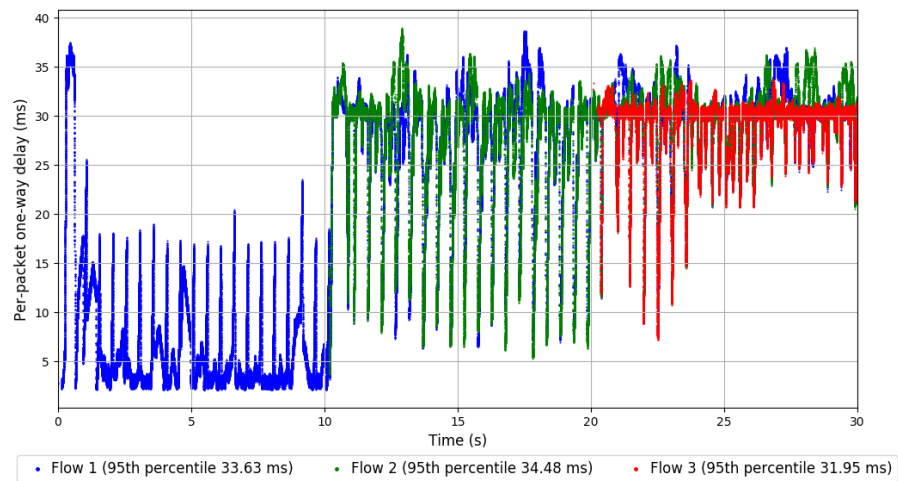
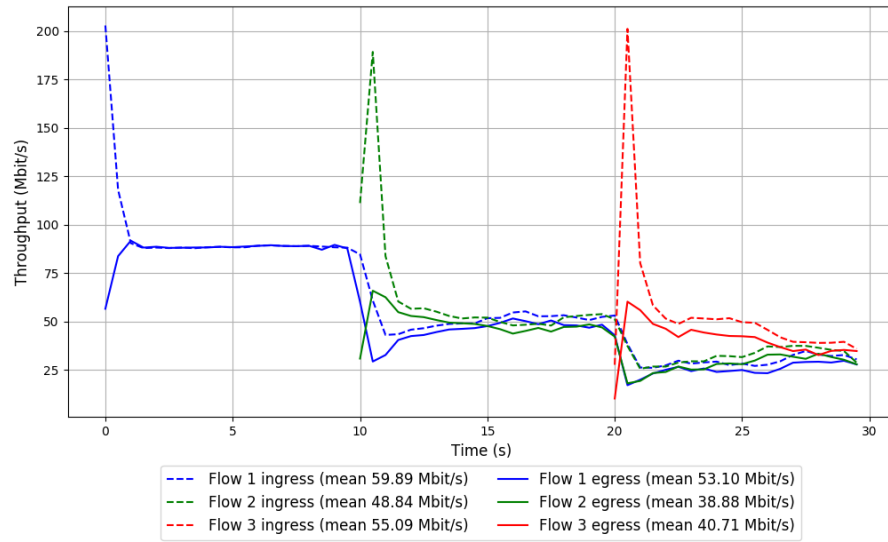
-- Flow 3:

Average throughput: 40.71 Mbit/s

95th percentile per-packet one-way delay: 31.954 ms

Loss rate: 26.12%

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



Run 4: Statistics of FillP

Start at: 2018-02-04 22:07:13

End at: 2018-02-04 22:07:43

Local clock offset: -0.023 ms

Remote clock offset: 2.985 ms

# Below is generated by plot.py at 2018-02-05 01:02:04

# Datalink statistics

-- Total of 3 flows:

Average throughput: 92.41 Mbit/s

95th percentile per-packet one-way delay: 59.180 ms

Loss rate: 15.64%

-- Flow 1:

Average throughput: 54.13 Mbit/s

95th percentile per-packet one-way delay: 30.644 ms

Loss rate: 9.79%

-- Flow 2:

Average throughput: 38.28 Mbit/s

95th percentile per-packet one-way delay: 54.247 ms

Loss rate: 21.57%

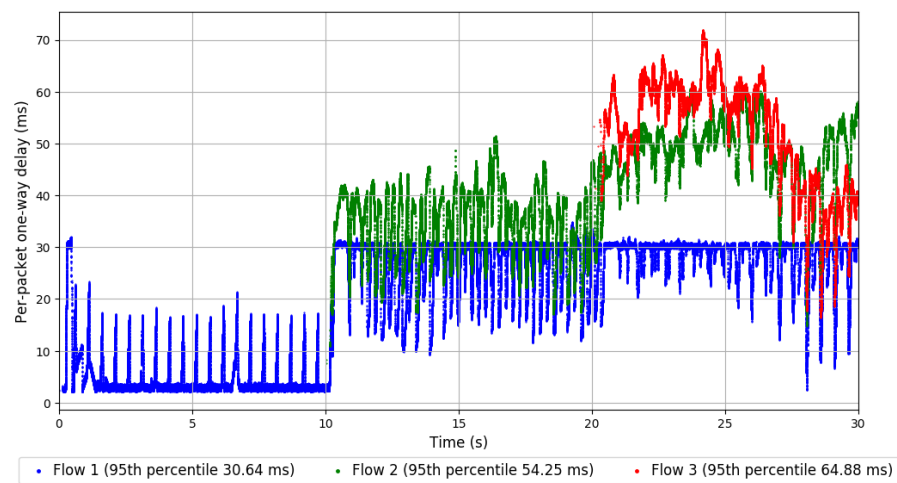
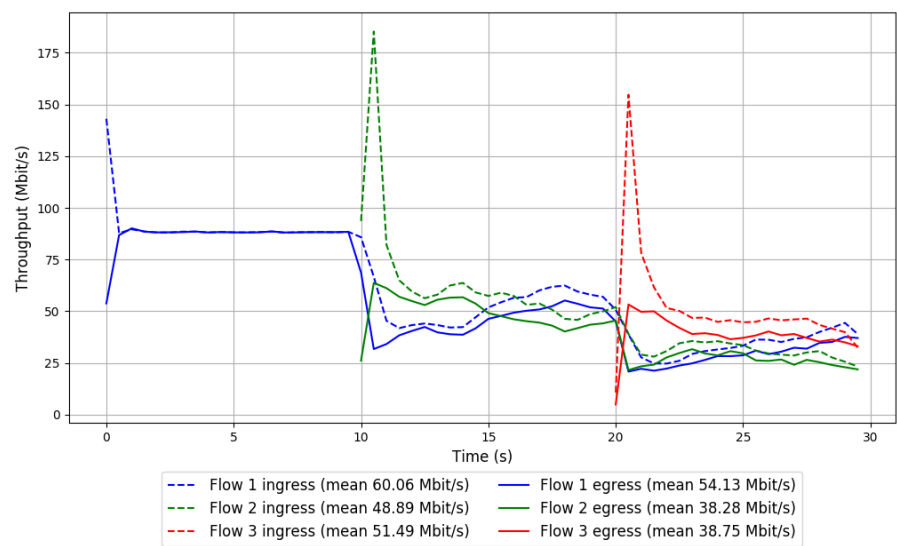
-- Flow 3:

Average throughput: 38.75 Mbit/s

95th percentile per-packet one-way delay: 64.881 ms

Loss rate: 24.88%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-02-04 22:27:46

End at: 2018-02-04 22:28:16

Local clock offset: 0.027 ms

Remote clock offset: 0.424 ms

# Below is generated by plot.py at 2018-02-05 01:02:07

# Datalink statistics

-- Total of 3 flows:

Average throughput: 88.97 Mbit/s

95th percentile per-packet one-way delay: 68.533 ms

Loss rate: 18.60%

-- Flow 1:

Average throughput: 41.21 Mbit/s

95th percentile per-packet one-way delay: 68.852 ms

Loss rate: 18.36%

-- Flow 2:

Average throughput: 49.82 Mbit/s

95th percentile per-packet one-way delay: 48.335 ms

Loss rate: 16.90%

-- Flow 3:

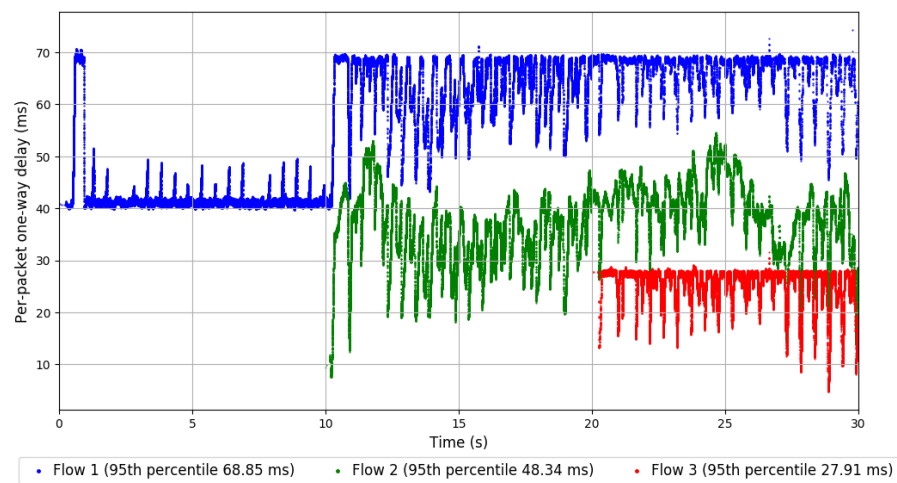
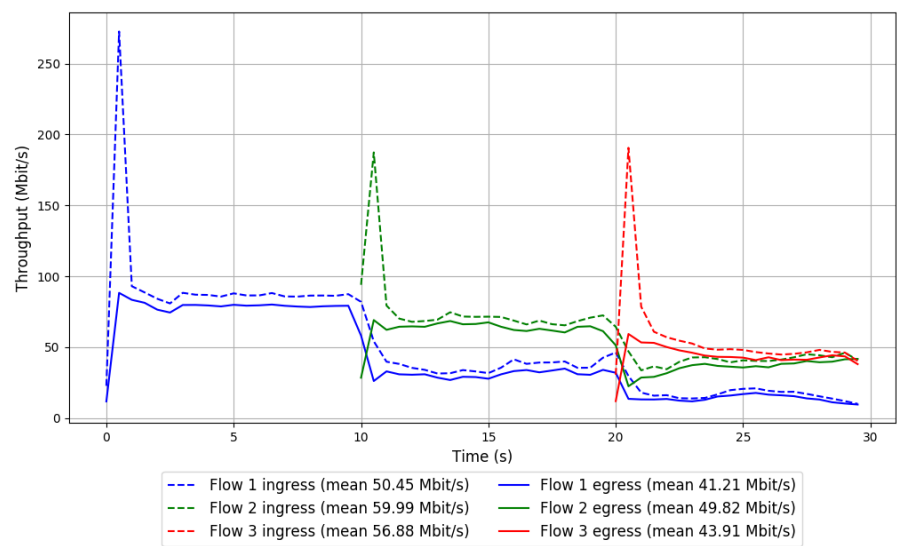
Average throughput: 43.91 Mbit/s

95th percentile per-packet one-way delay: 27.912 ms

Loss rate: 22.87%



Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-02-04 22:48:27

End at: 2018-02-04 22:48:57

Local clock offset: -0.059 ms

Remote clock offset: 2.963 ms

# Below is generated by plot.py at 2018-02-05 01:02:11

# Datalink statistics

-- Total of 3 flows:

Average throughput: 92.38 Mbit/s

95th percentile per-packet one-way delay: 35.522 ms

Loss rate: 15.83%

-- Flow 1:

Average throughput: 54.56 Mbit/s

95th percentile per-packet one-way delay: 37.170 ms

Loss rate: 11.09%

-- Flow 2:

Average throughput: 39.58 Mbit/s

95th percentile per-packet one-way delay: 30.868 ms

Loss rate: 17.62%

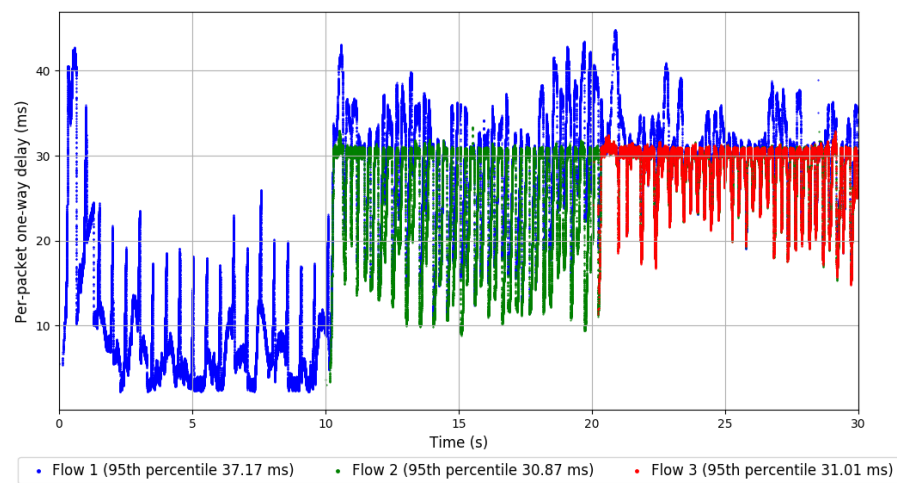
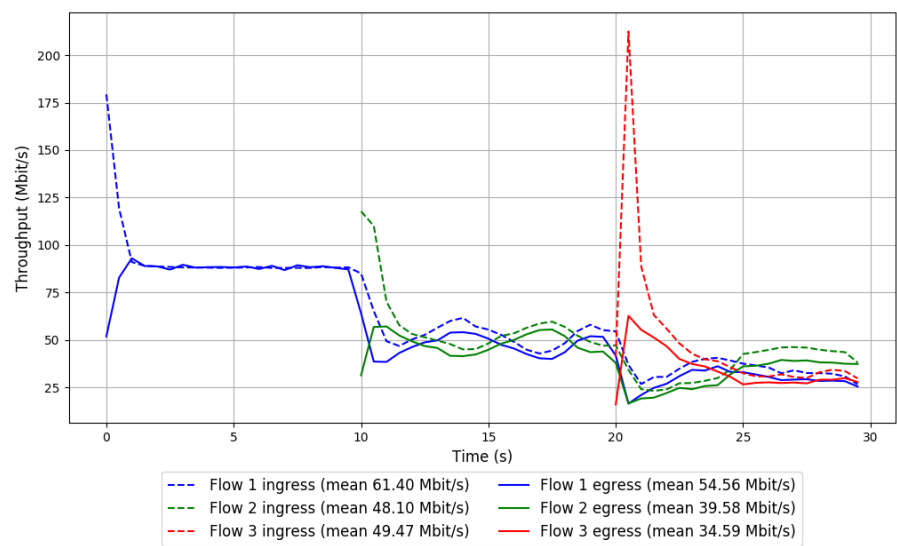
-- Flow 3:

Average throughput: 34.59 Mbit/s

95th percentile per-packet one-way delay: 31.008 ms

Loss rate: 30.06%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-02-04 23:08:59

End at: 2018-02-04 23:09:29

Local clock offset: 0.007 ms

Remote clock offset: 2.69 ms

# Below is generated by plot.py at 2018-02-05 01:02:14

# Datalink statistics

-- Total of 3 flows:

Average throughput: 92.41 Mbit/s

95th percentile per-packet one-way delay: 60.066 ms

Loss rate: 15.75%

-- Flow 1:

Average throughput: 53.49 Mbit/s

95th percentile per-packet one-way delay: 30.668 ms

Loss rate: 10.22%

-- Flow 2:

Average throughput: 39.37 Mbit/s

95th percentile per-packet one-way delay: 64.403 ms

Loss rate: 19.22%

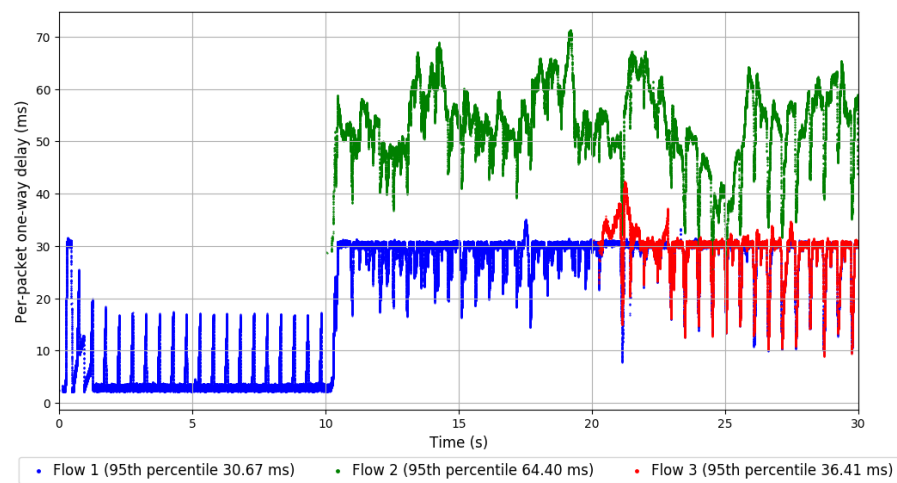
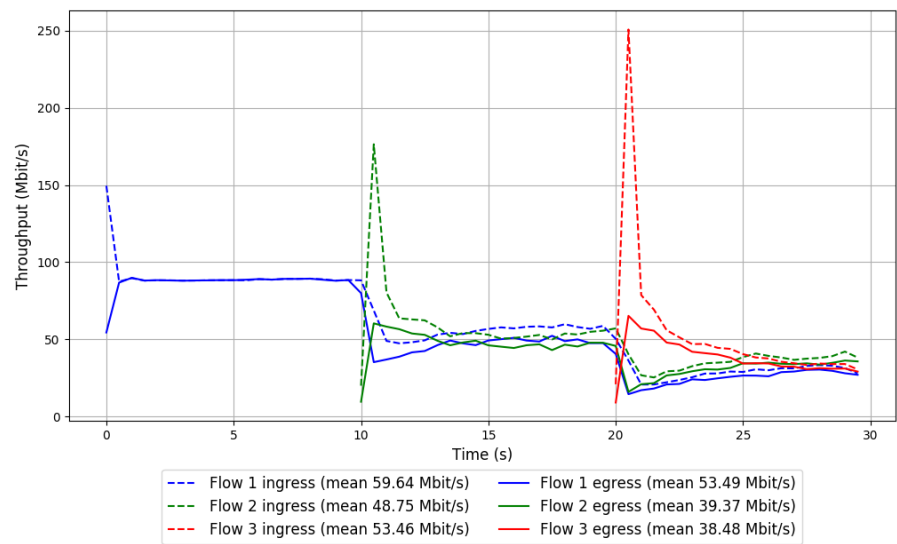
-- Flow 3:

Average throughput: 38.48 Mbit/s

95th percentile per-packet one-way delay: 36.407 ms

Loss rate: 28.03%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-02-04 23:29:39

End at: 2018-02-04 23:30:09

Local clock offset: -0.003 ms

Remote clock offset: 2.633 ms

# Below is generated by plot.py at 2018-02-05 01:02:30

# Datalink statistics

-- Total of 3 flows:

Average throughput: 92.31 Mbit/s

95th percentile per-packet one-way delay: 58.461 ms

Loss rate: 16.39%

-- Flow 1:

Average throughput: 54.46 Mbit/s

95th percentile per-packet one-way delay: 60.380 ms

Loss rate: 12.16%

-- Flow 2:

Average throughput: 41.09 Mbit/s

95th percentile per-packet one-way delay: 33.289 ms

Loss rate: 20.57%

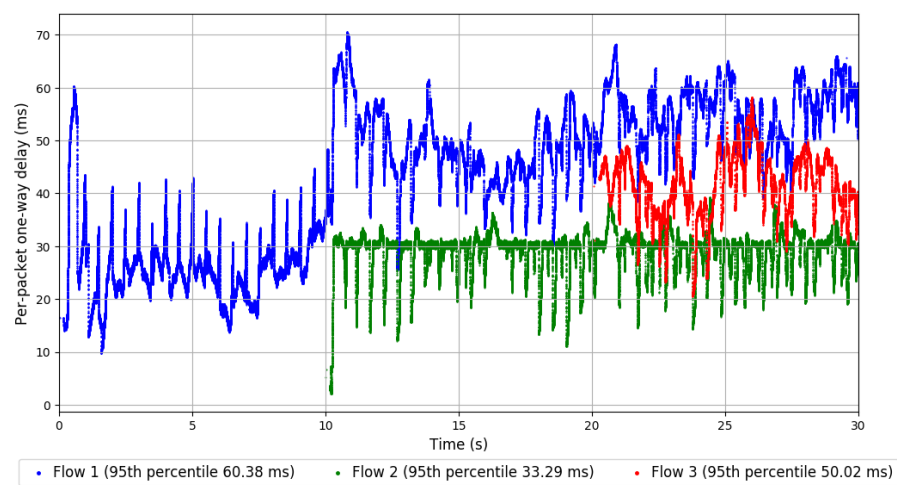
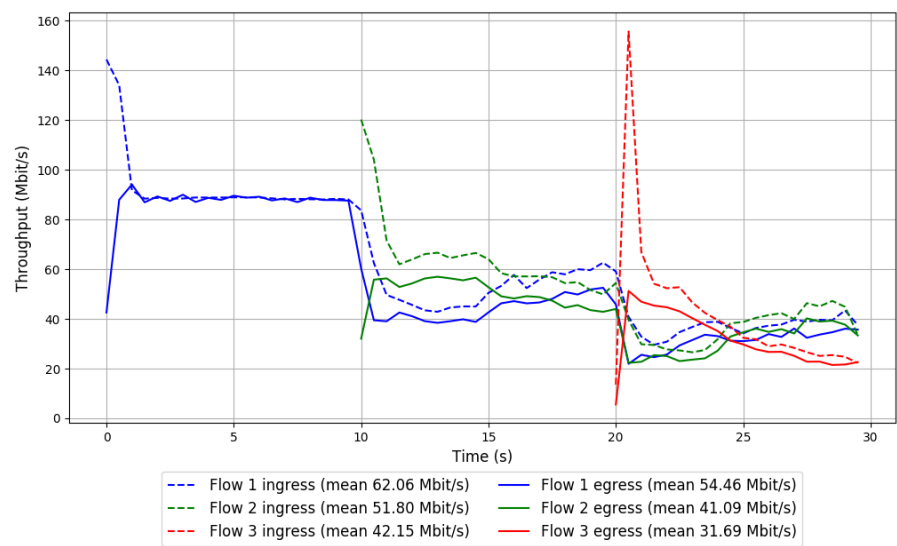
-- Flow 3:

Average throughput: 31.69 Mbit/s

95th percentile per-packet one-way delay: 50.016 ms

Loss rate: 24.84%

Run 8: Report of FillP — Data Link



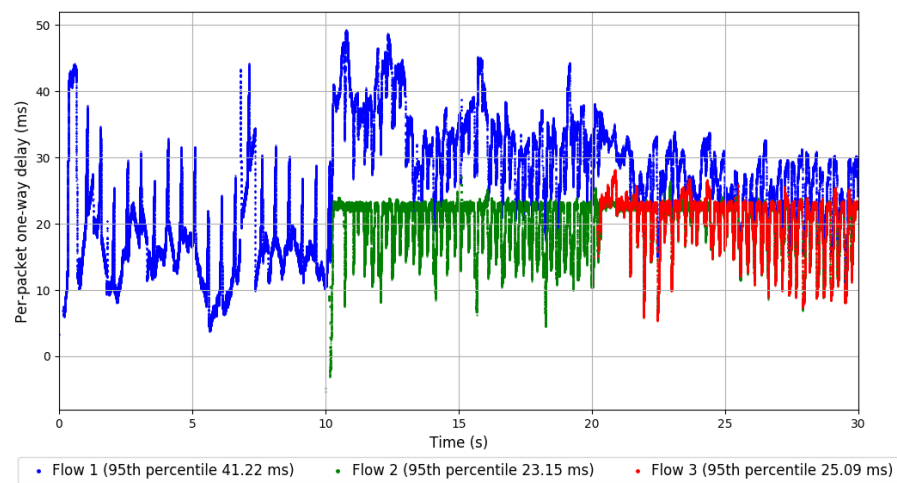
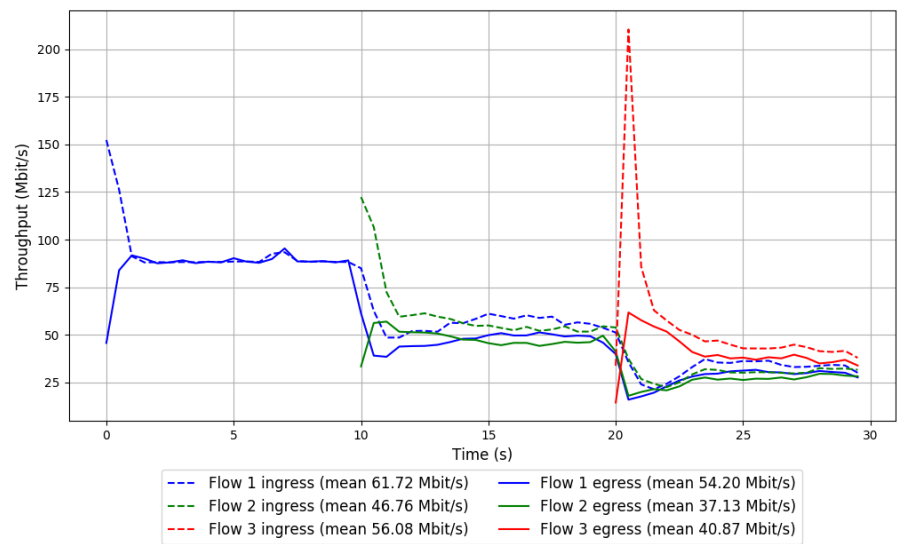
Run 9: Statistics of FillP

Start at: 2018-02-04 23:50:26  
End at: 2018-02-04 23:50:56  
Local clock offset: -0.017 ms  
Remote clock offset: -4.943 ms

# Below is generated by plot.py at 2018-02-05 01:04:14  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.48 Mbit/s  
95th percentile per-packet one-way delay: 37.650 ms  
Loss rate: 16.94%  
-- Flow 1:  
Average throughput: 54.20 Mbit/s  
95th percentile per-packet one-way delay: 41.220 ms  
Loss rate: 12.12%  
-- Flow 2:  
Average throughput: 37.13 Mbit/s  
95th percentile per-packet one-way delay: 23.147 ms  
Loss rate: 20.48%  
-- Flow 3:  
Average throughput: 40.87 Mbit/s  
95th percentile per-packet one-way delay: 25.095 ms  
Loss rate: 27.05%



Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-02-05 00:11:16

End at: 2018-02-05 00:11:47

Local clock offset: -0.022 ms

Remote clock offset: 2.182 ms

# Below is generated by plot.py at 2018-02-05 01:04:32

# Datalink statistics

-- Total of 3 flows:

Average throughput: 92.29 Mbit/s

95th percentile per-packet one-way delay: 70.754 ms

Loss rate: 14.47%

-- Flow 1:

Average throughput: 60.43 Mbit/s

95th percentile per-packet one-way delay: 32.027 ms

Loss rate: 9.40%

-- Flow 2:

Average throughput: 27.83 Mbit/s

95th percentile per-packet one-way delay: 71.184 ms

Loss rate: 24.59%

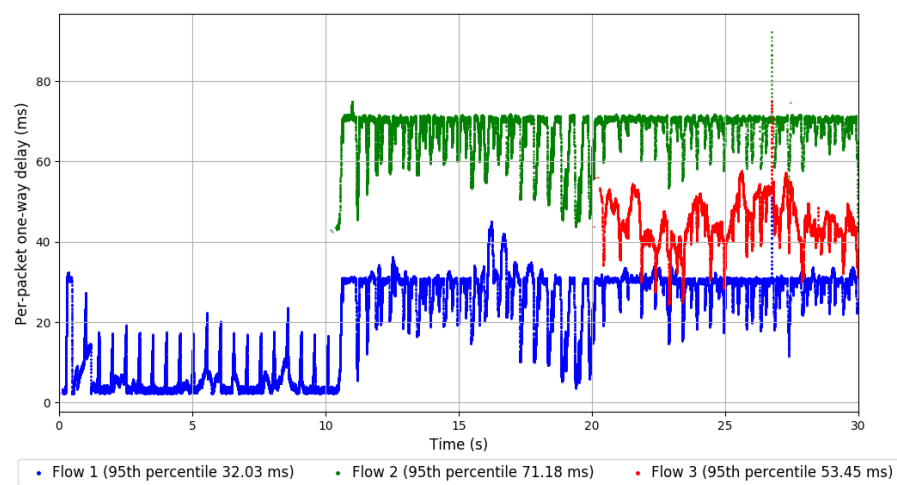
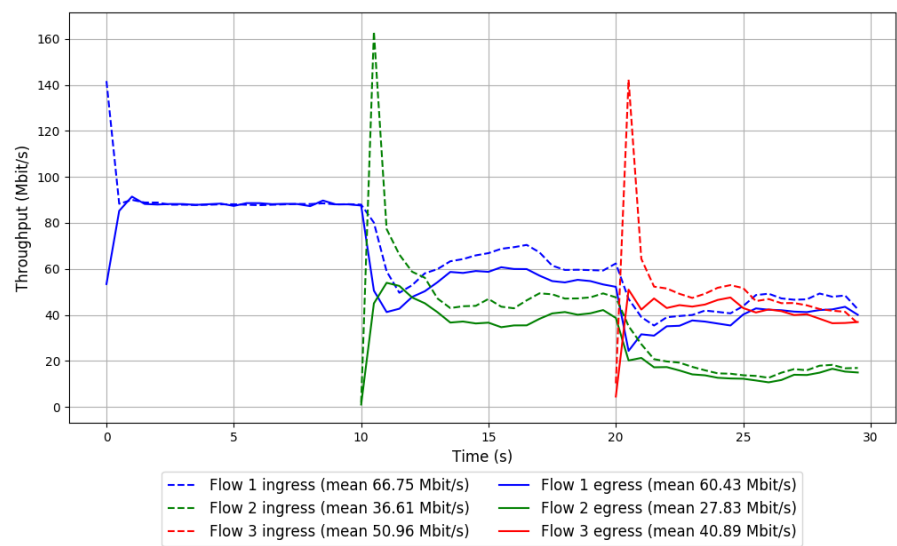
-- Flow 3:

Average throughput: 40.89 Mbit/s

95th percentile per-packet one-way delay: 53.446 ms

Loss rate: 19.90%

Run 10: Report of FillP — Data Link

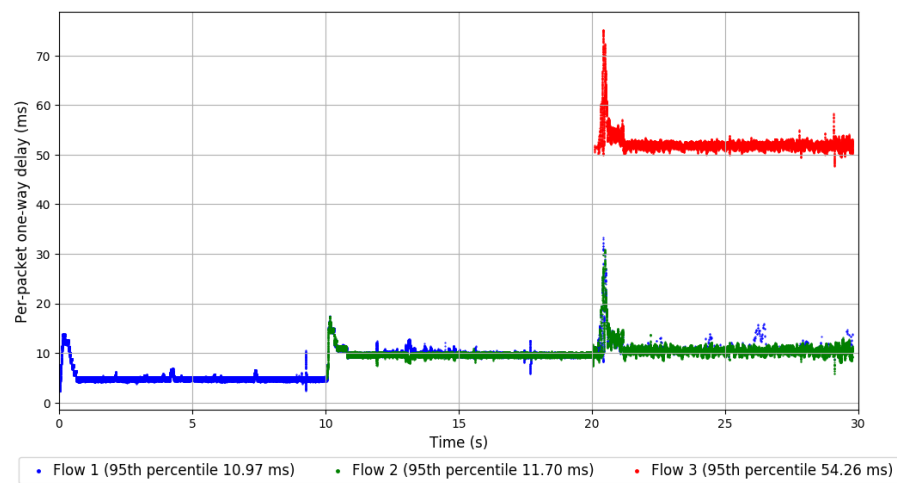
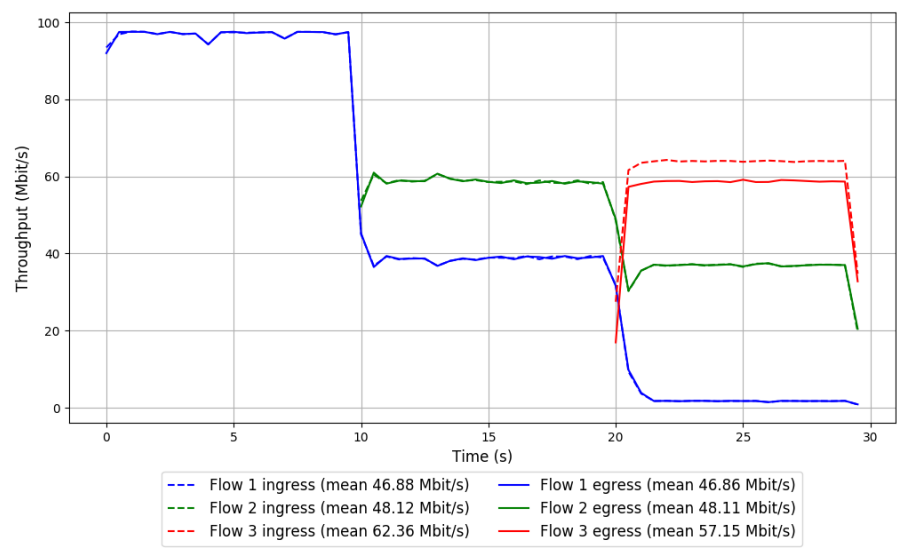


```
Run 1: Statistics of Indigo-1-32

Start at: 2018-02-04 20:59:59
End at: 2018-02-04 21:00:29
Local clock offset: 0.039 ms
Remote clock offset: 2.311 ms

# Below is generated by plot.py at 2018-02-05 01:04:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.30 Mbit/s
95th percentile per-packet one-way delay: 52.342 ms
Loss rate: 1.80%
-- Flow 1:
Average throughput: 46.86 Mbit/s
95th percentile per-packet one-way delay: 10.974 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 48.11 Mbit/s
95th percentile per-packet one-way delay: 11.697 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 57.15 Mbit/s
95th percentile per-packet one-way delay: 54.260 ms
Loss rate: 8.74%
```

Run 1: Report of Indigo-1-32 — Data Link



Run 2: Statistics of Indigo-1-32

Start at: 2018-02-04 21:20:36

End at: 2018-02-04 21:21:06

Local clock offset: -0.016 ms

Remote clock offset: 2.188 ms

# Below is generated by plot.py at 2018-02-05 01:04:32

# Datalink statistics

-- Total of 3 flows:

Average throughput: 96.59 Mbit/s

95th percentile per-packet one-way delay: 48.178 ms

Loss rate: 1.86%

-- Flow 1:

Average throughput: 51.07 Mbit/s

95th percentile per-packet one-way delay: 10.127 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 41.94 Mbit/s

95th percentile per-packet one-way delay: 11.160 ms

Loss rate: 0.02%

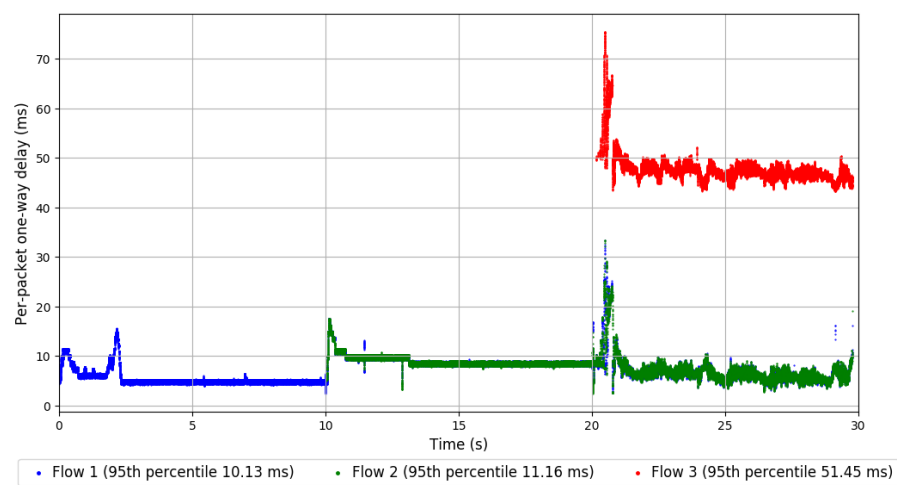
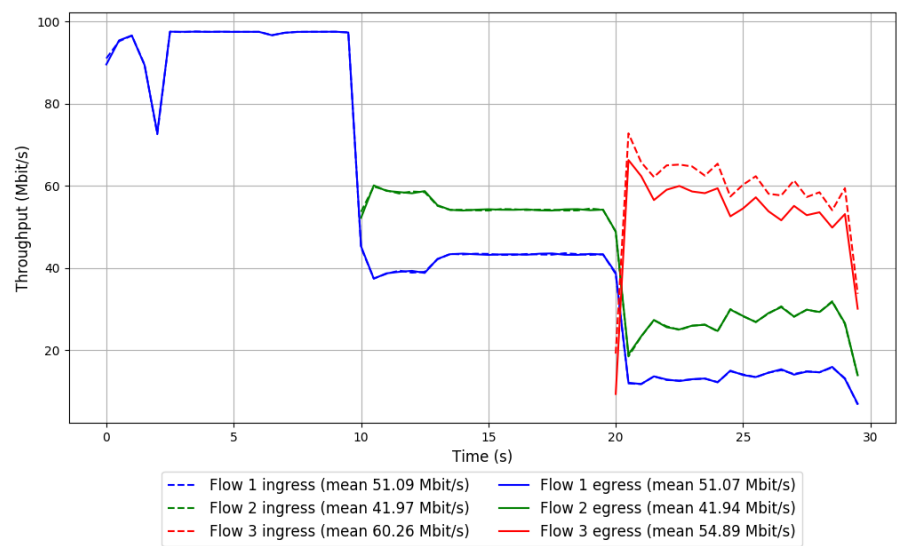
-- Flow 3:

Average throughput: 54.89 Mbit/s

95th percentile per-packet one-way delay: 51.452 ms

Loss rate: 9.33%

Run 2: Report of Indigo-1-32 — Data Link



Run 3: Statistics of Indigo-1-32

Start at: 2018-02-04 21:41:05

End at: 2018-02-04 21:41:35

Local clock offset: 0.033 ms

Remote clock offset: 2.096 ms

# Below is generated by plot.py at 2018-02-05 01:04:32

# Datalink statistics

-- Total of 3 flows:

Average throughput: 97.41 Mbit/s

95th percentile per-packet one-way delay: 13.519 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 46.95 Mbit/s

95th percentile per-packet one-way delay: 11.177 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 45.10 Mbit/s

95th percentile per-packet one-way delay: 13.626 ms

Loss rate: 0.00%

-- Flow 3:

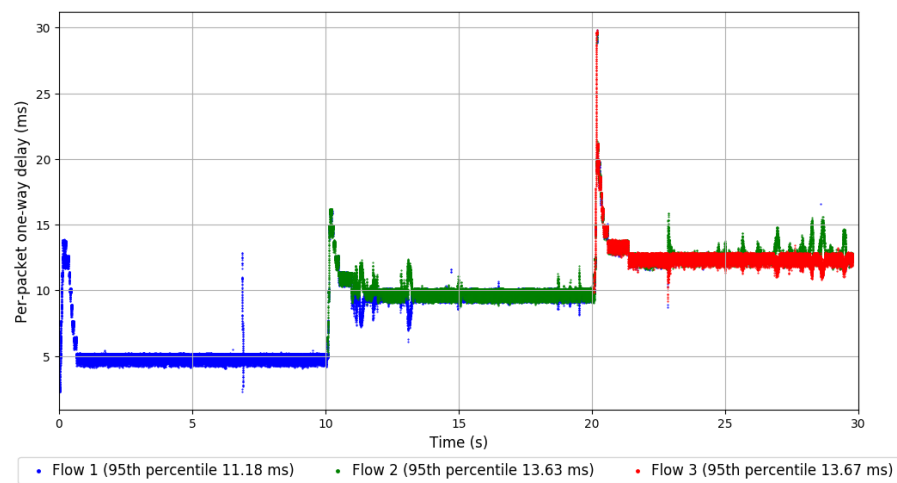
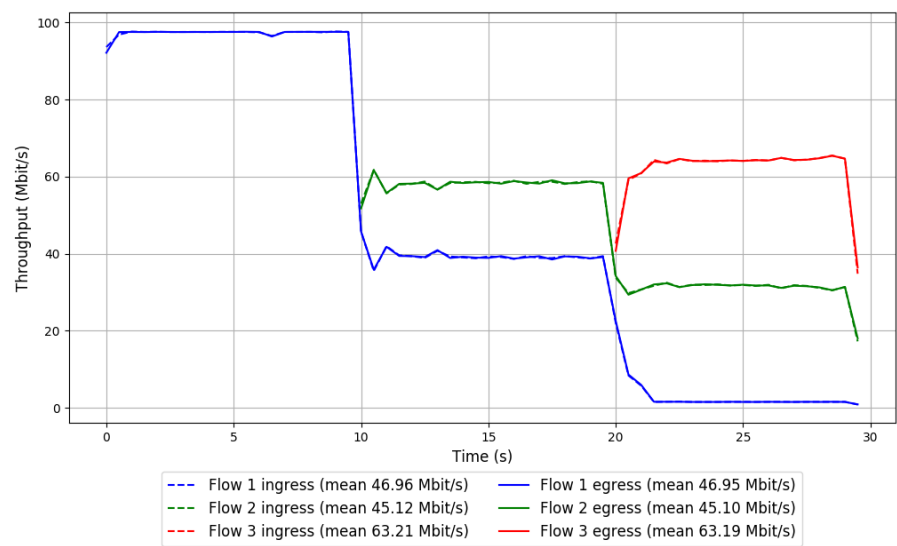
Average throughput: 63.19 Mbit/s

95th percentile per-packet one-way delay: 13.668 ms

Loss rate: 0.00%



Run 3: Report of Indigo-1-32 — Data Link



Run 4: Statistics of Indigo-1-32

Start at: 2018-02-04 22:01:34

End at: 2018-02-04 22:02:04

Local clock offset: 0.044 ms

Remote clock offset: -17.563 ms

# Below is generated by plot.py at 2018-02-05 01:04:32

# Datalink statistics

-- Total of 3 flows:

Average throughput: 85.32 Mbit/s

95th percentile per-packet one-way delay: 29.113 ms

Loss rate: 3.95%

-- Flow 1:

Average throughput: 24.33 Mbit/s

95th percentile per-packet one-way delay: -6.918 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 67.76 Mbit/s

95th percentile per-packet one-way delay: 30.520 ms

Loss rate: 7.22%

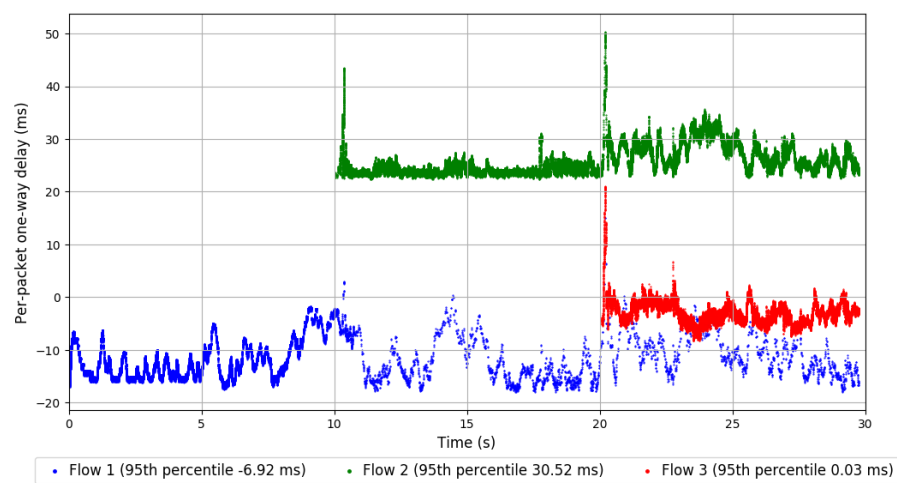
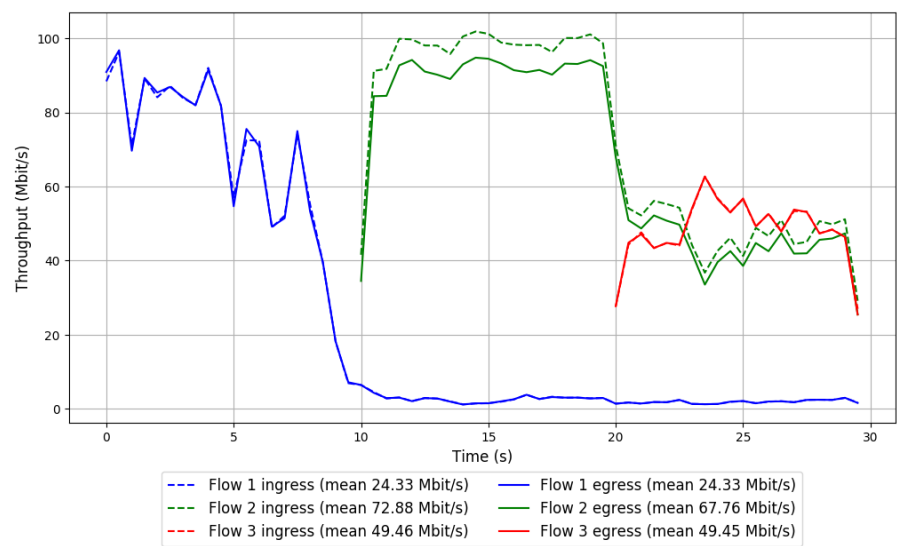
-- Flow 3:

Average throughput: 49.45 Mbit/s

95th percentile per-packet one-way delay: 0.031 ms

Loss rate: 0.13%

Run 4: Report of Indigo-1-32 — Data Link



Run 5: Statistics of Indigo-1-32

Start at: 2018-02-04 22:22:00

End at: 2018-02-04 22:22:30

Local clock offset: -0.005 ms

Remote clock offset: 3.13 ms

# Below is generated by plot.py at 2018-02-05 01:04:32

# Datalink statistics

-- Total of 3 flows:

Average throughput: 87.75 Mbit/s

95th percentile per-packet one-way delay: 48.644 ms

Loss rate: 7.13%

-- Flow 1:

Average throughput: 61.83 Mbit/s

95th percentile per-packet one-way delay: 49.296 ms

Loss rate: 9.83%

-- Flow 2:

Average throughput: 12.02 Mbit/s

95th percentile per-packet one-way delay: 13.423 ms

Loss rate: 0.00%

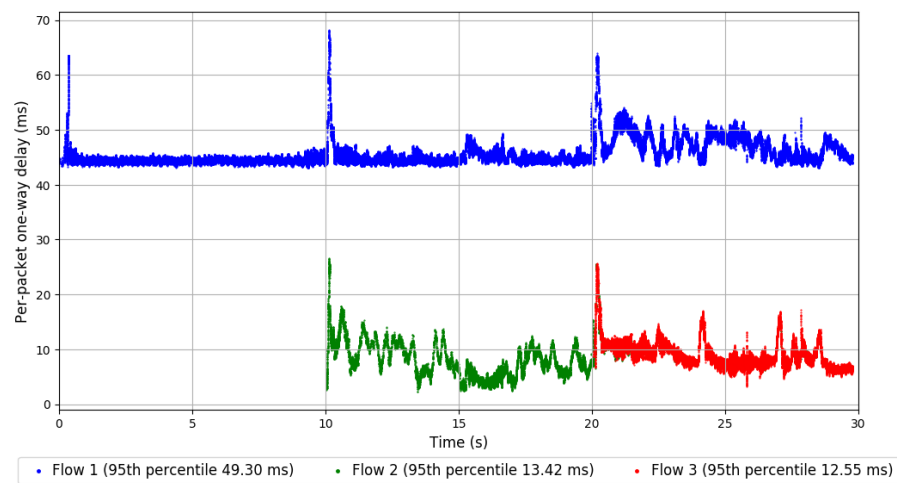
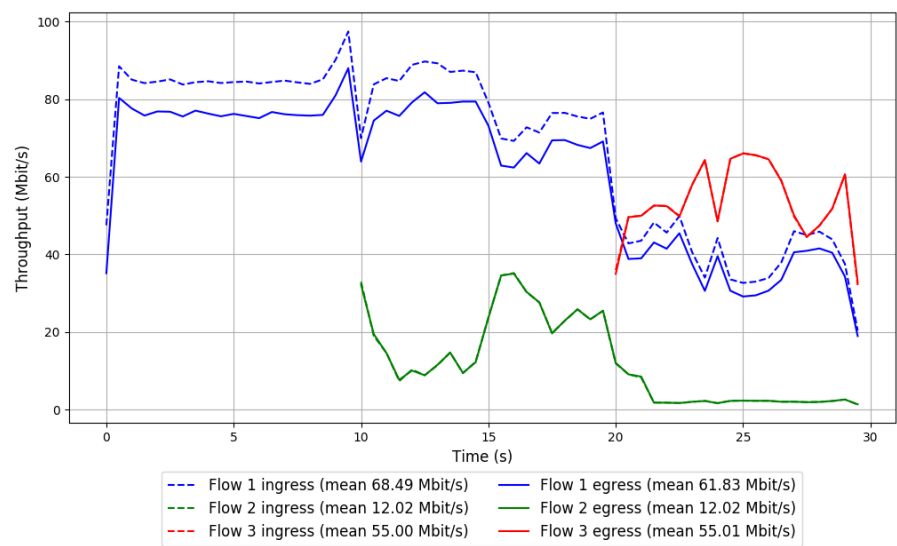
-- Flow 3:

Average throughput: 55.01 Mbit/s

95th percentile per-packet one-way delay: 12.551 ms

Loss rate: 0.00%

Run 5: Report of Indigo-1-32 — Data Link



Run 6: Statistics of Indigo-1-32

Start at: 2018-02-04 22:42:37

End at: 2018-02-04 22:43:07

Local clock offset: -0.004 ms

Remote clock offset: 2.974 ms

# Below is generated by plot.py at 2018-02-05 01:04:32

# Datalink statistics

-- Total of 3 flows:

Average throughput: 86.36 Mbit/s

95th percentile per-packet one-way delay: 20.809 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 30.92 Mbit/s

95th percentile per-packet one-way delay: 24.104 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 66.80 Mbit/s

95th percentile per-packet one-way delay: 9.016 ms

Loss rate: 0.00%

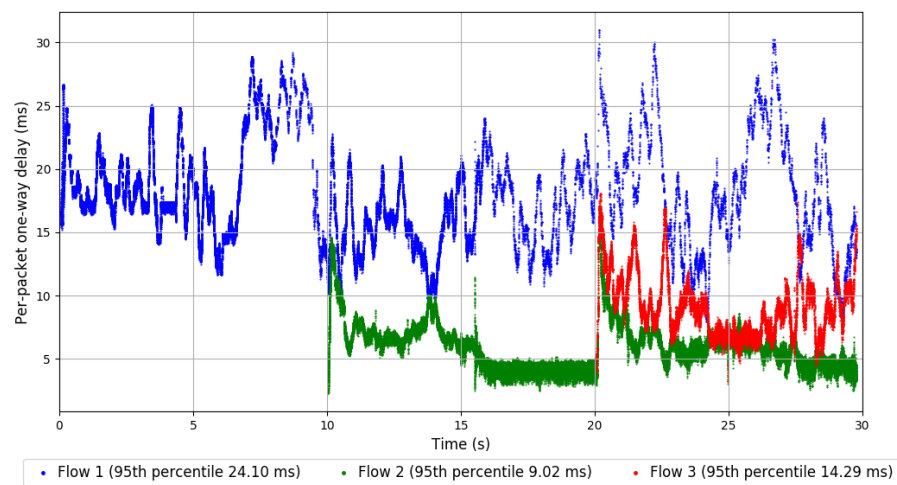
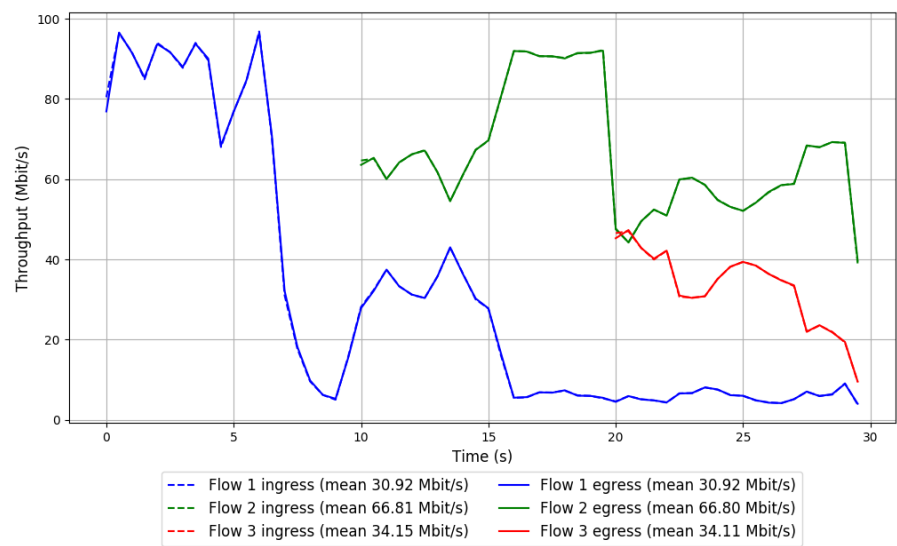
-- Flow 3:

Average throughput: 34.11 Mbit/s

95th percentile per-packet one-way delay: 14.292 ms

Loss rate: 0.04%

Run 6: Report of Indigo-1-32 — Data Link



Run 7: Statistics of Indigo-1-32

Start at: 2018-02-04 23:03:09

End at: 2018-02-04 23:03:39

Local clock offset: -0.076 ms

Remote clock offset: 2.742 ms

# Below is generated by plot.py at 2018-02-05 01:04:44

# Datalink statistics

-- Total of 3 flows:

Average throughput: 97.39 Mbit/s

95th percentile per-packet one-way delay: 21.975 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 37.73 Mbit/s

95th percentile per-packet one-way delay: 12.354 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 80.57 Mbit/s

95th percentile per-packet one-way delay: 23.199 ms

Loss rate: 0.00%

-- Flow 3:

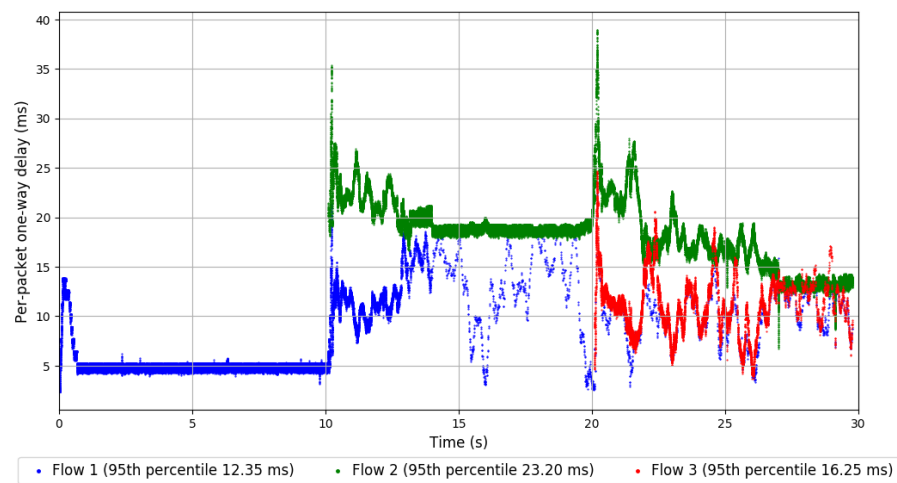
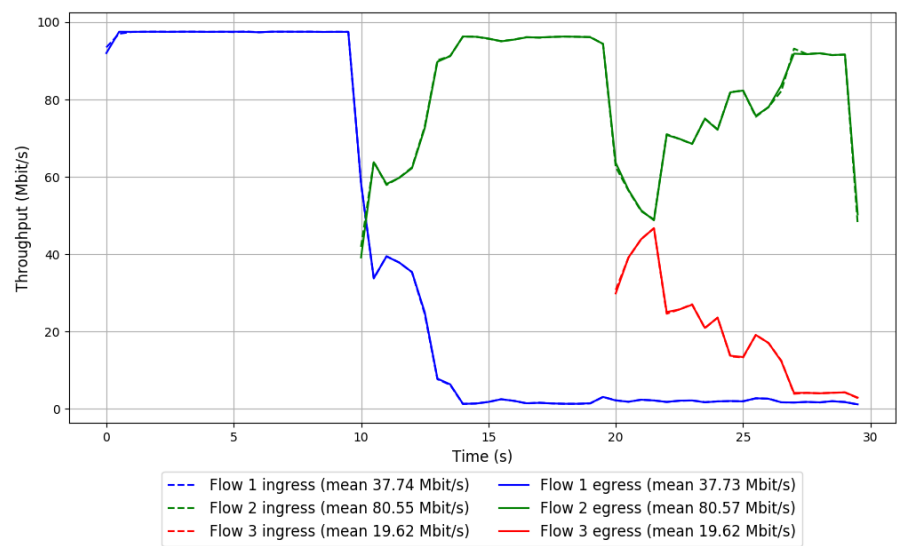
Average throughput: 19.62 Mbit/s

95th percentile per-packet one-way delay: 16.251 ms

Loss rate: 0.00%



Run 7: Report of Indigo-1-32 — Data Link



Run 8: Statistics of Indigo-1-32

Start at: 2018-02-04 23:23:48

End at: 2018-02-04 23:24:18

Local clock offset: -0.003 ms

Remote clock offset: 2.626 ms

# Below is generated by plot.py at 2018-02-05 01:04:47

# Datalink statistics

-- Total of 3 flows:

Average throughput: 88.70 Mbit/s

95th percentile per-packet one-way delay: 48.387 ms

Loss rate: 3.79%

-- Flow 1:

Average throughput: 34.32 Mbit/s

95th percentile per-packet one-way delay: 12.845 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 57.76 Mbit/s

95th percentile per-packet one-way delay: 49.517 ms

Loss rate: 8.37%

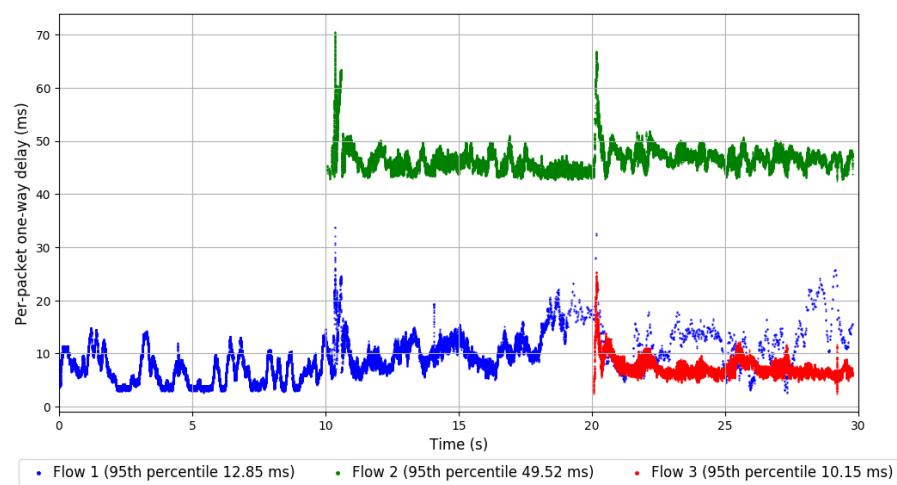
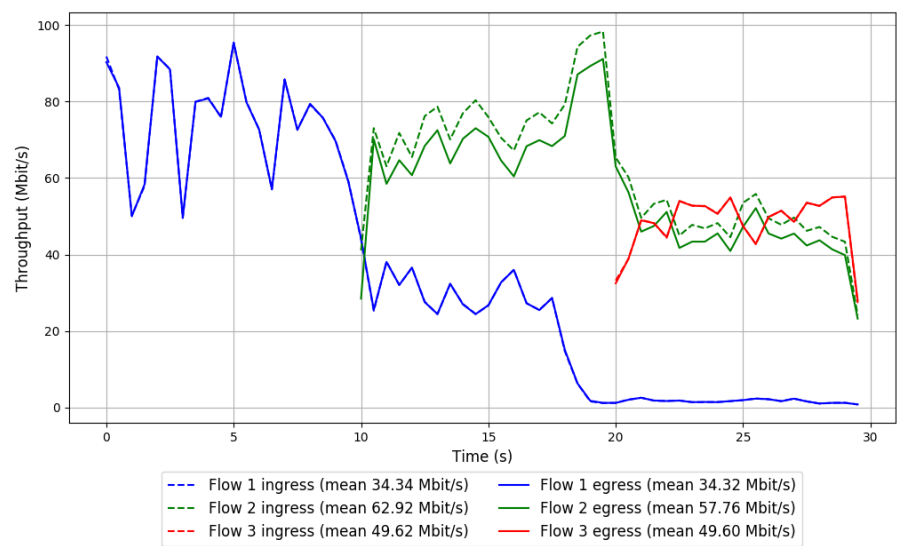
-- Flow 3:

Average throughput: 49.60 Mbit/s

95th percentile per-packet one-way delay: 10.148 ms

Loss rate: 0.00%

Run 8: Report of Indigo-1-32 — Data Link

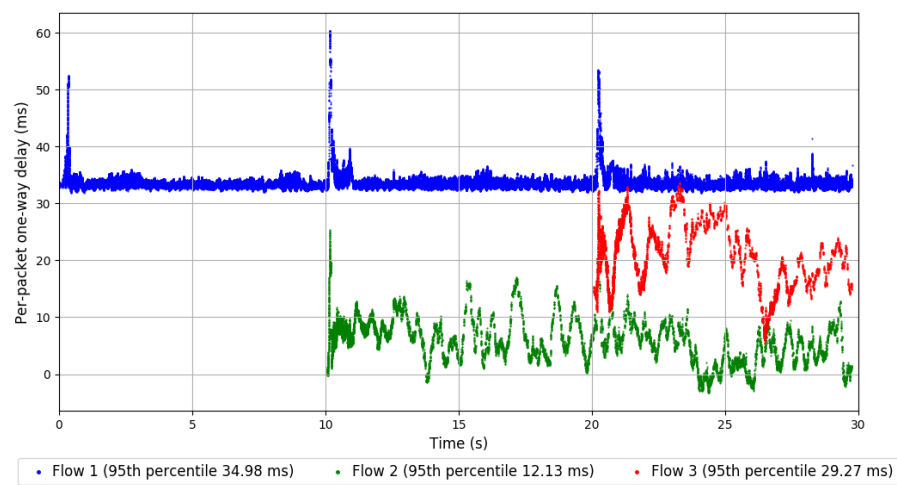
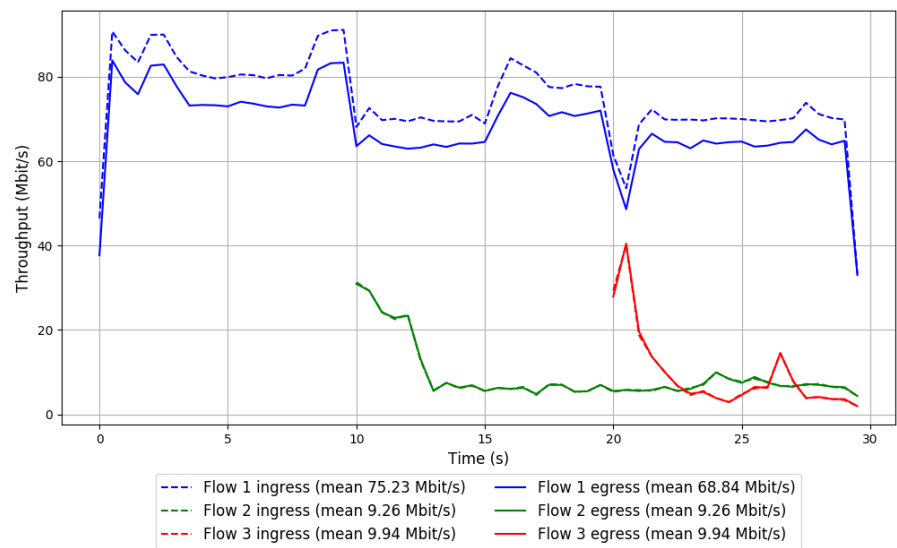


Run 9: Statistics of Indigo-1-32

Start at: 2018-02-04 23:44:36  
End at: 2018-02-04 23:45:06  
Local clock offset: -0.091 ms  
Remote clock offset: -7.949 ms

# Below is generated by plot.py at 2018-02-05 01:04:47  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 78.21 Mbit/s  
95th percentile per-packet one-way delay: 34.855 ms  
Loss rate: 7.57%  
-- Flow 1:  
Average throughput: 68.84 Mbit/s  
95th percentile per-packet one-way delay: 34.981 ms  
Loss rate: 8.52%  
-- Flow 2:  
Average throughput: 9.26 Mbit/s  
95th percentile per-packet one-way delay: 12.132 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 9.94 Mbit/s  
95th percentile per-packet one-way delay: 29.266 ms  
Loss rate: 0.00%

Run 9: Report of Indigo-1-32 — Data Link



Run 10: Statistics of Indigo-1-32

Start at: 2018-02-05 00:05:28

End at: 2018-02-05 00:05:58

Local clock offset: -0.05 ms

Remote clock offset: 2.336 ms

# Below is generated by plot.py at 2018-02-05 01:04:47

# Datalink statistics

-- Total of 3 flows:

Average throughput: 67.42 Mbit/s

95th percentile per-packet one-way delay: 48.082 ms

Loss rate: 6.74%

-- Flow 1:

Average throughput: 7.99 Mbit/s

95th percentile per-packet one-way delay: 42.453 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 76.91 Mbit/s

95th percentile per-packet one-way delay: 50.092 ms

Loss rate: 8.70%

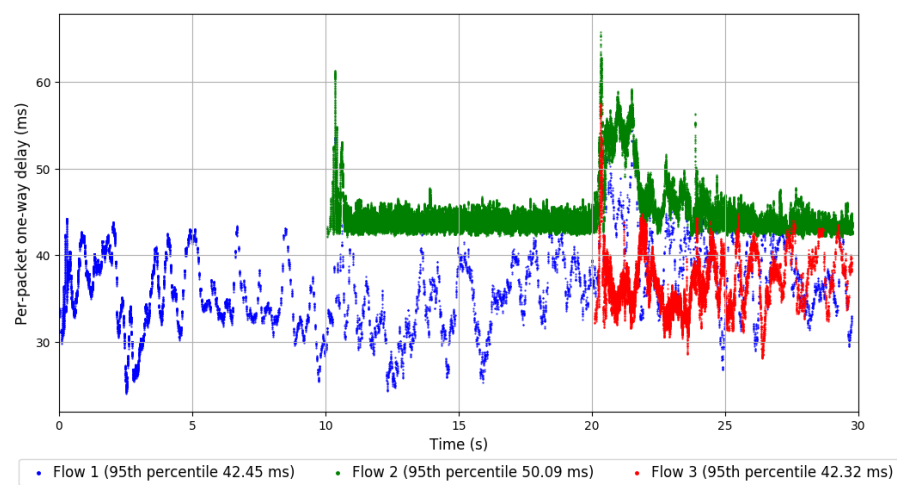
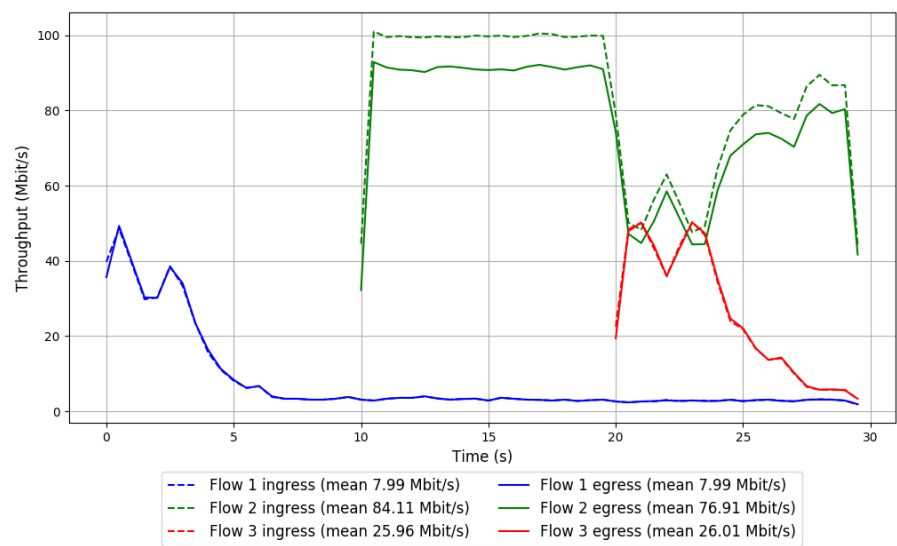
-- Flow 3:

Average throughput: 26.01 Mbit/s

95th percentile per-packet one-way delay: 42.324 ms

Loss rate: 0.09%

Run 10: Report of Indigo-1-32 — Data Link



Run 1: Statistics of Vivace-latency

Start at: 2018-02-04 20:47:36

End at: 2018-02-04 20:48:06

Local clock offset: 0.082 ms

Remote clock offset: 2.366 ms

# Below is generated by plot.py at 2018-02-05 01:04:47

# Datalink statistics

-- Total of 3 flows:

Average throughput: 62.02 Mbit/s

95th percentile per-packet one-way delay: 12.268 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 22.16 Mbit/s

95th percentile per-packet one-way delay: 18.610 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 46.92 Mbit/s

95th percentile per-packet one-way delay: 3.392 ms

Loss rate: 0.00%

-- Flow 3:

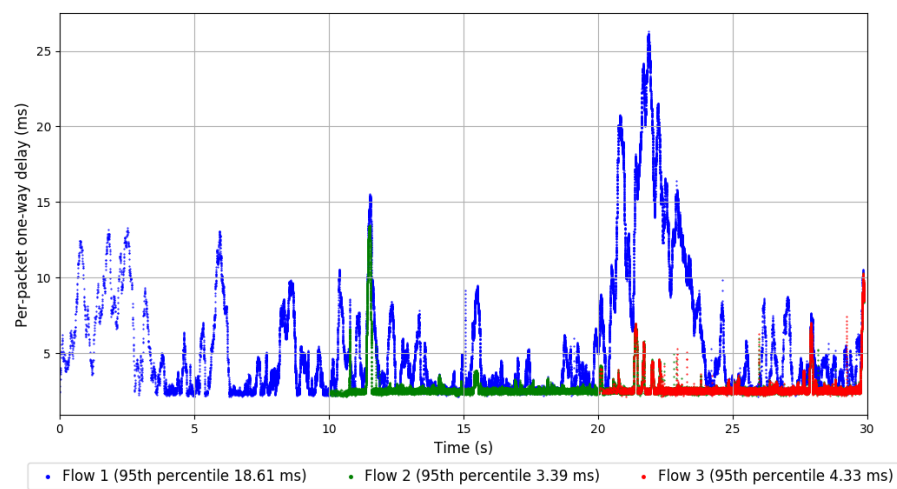
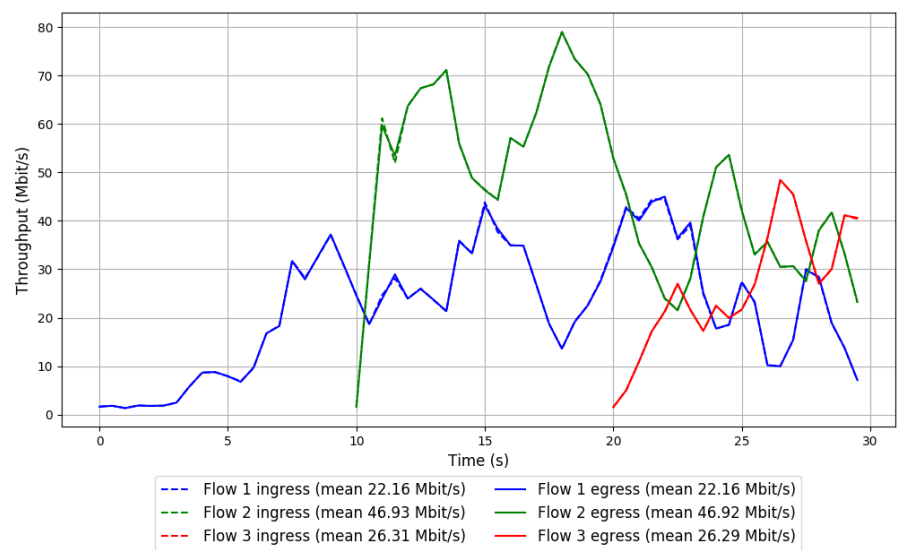
Average throughput: 26.29 Mbit/s

95th percentile per-packet one-way delay: 4.325 ms

Loss rate: 0.00%



Run 1: Report of Vivace-latency — Data Link



Run 2: Statistics of Vivace-latency

Start at: 2018-02-04 21:08:05

End at: 2018-02-04 21:08:35

Local clock offset: 0.077 ms

Remote clock offset: 2.226 ms

# Below is generated by plot.py at 2018-02-05 01:05:05

# Datalink statistics

-- Total of 3 flows:

Average throughput: 79.93 Mbit/s

95th percentile per-packet one-way delay: 4.163 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 43.17 Mbit/s

95th percentile per-packet one-way delay: 3.610 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 46.45 Mbit/s

95th percentile per-packet one-way delay: 4.412 ms

Loss rate: 0.08%

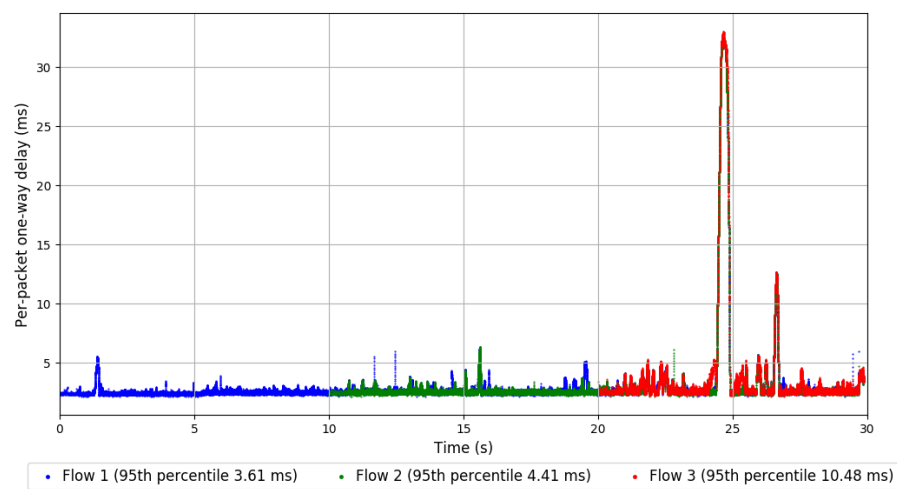
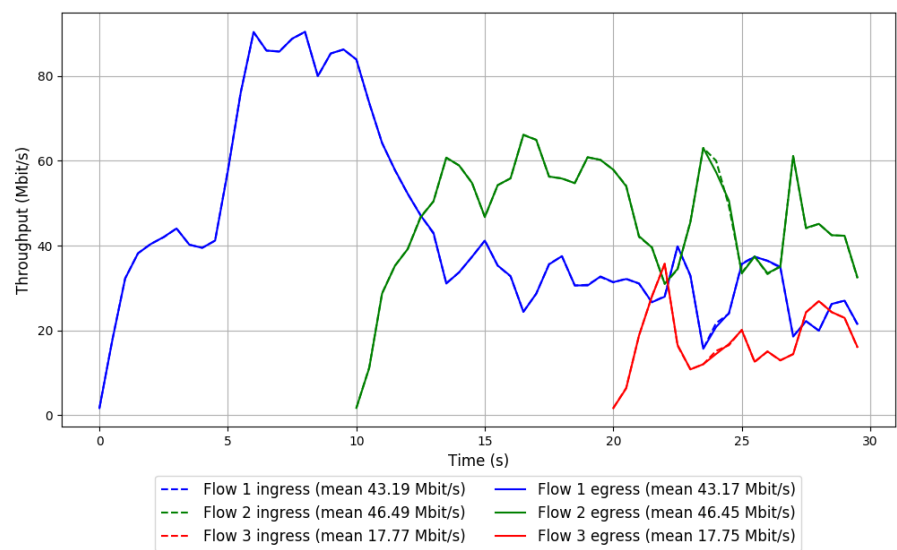
-- Flow 3:

Average throughput: 17.75 Mbit/s

95th percentile per-packet one-way delay: 10.478 ms

Loss rate: 0.12%

Run 2: Report of Vivace-latency — Data Link

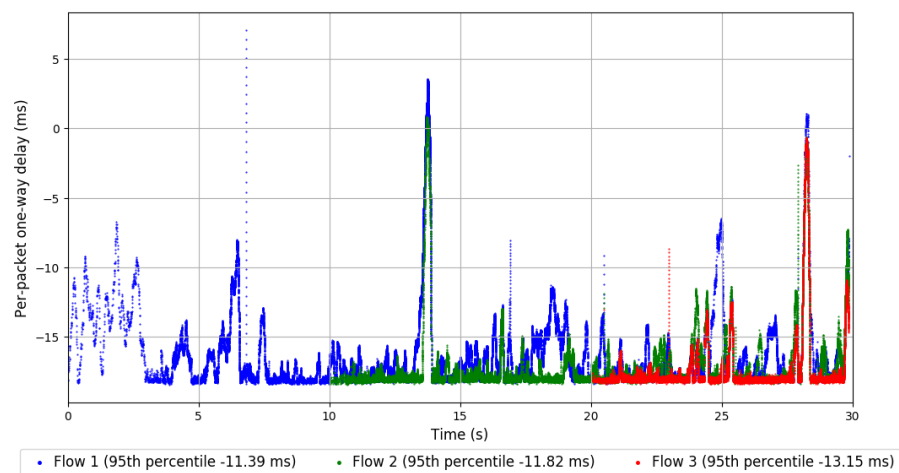
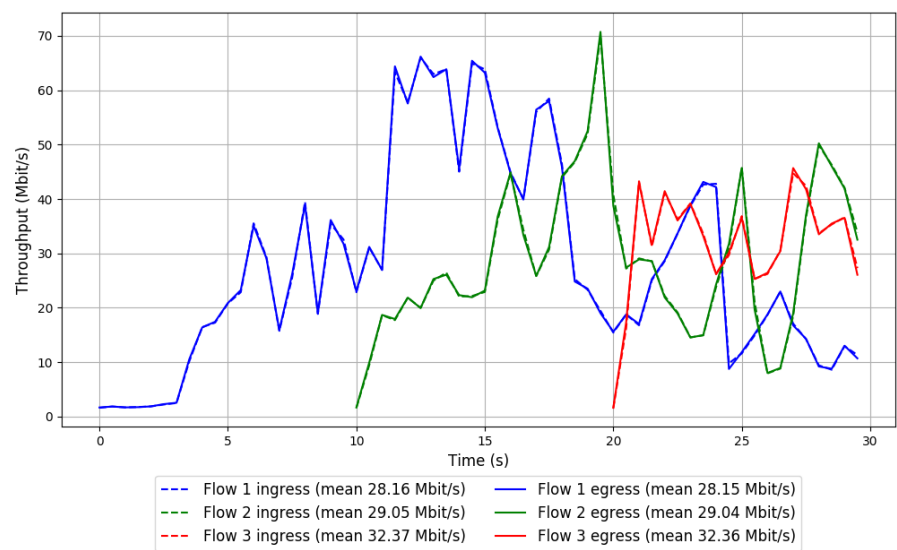


Run 3: Statistics of Vivace-latency

Start at: 2018-02-04 21:28:43  
End at: 2018-02-04 21:29:13  
Local clock offset: -0.019 ms  
Remote clock offset: -18.471 ms

# Below is generated by plot.py at 2018-02-05 01:05:15  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 58.12 Mbit/s  
95th percentile per-packet one-way delay: -11.765 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 28.15 Mbit/s  
95th percentile per-packet one-way delay: -11.394 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 29.04 Mbit/s  
95th percentile per-packet one-way delay: -11.816 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 32.36 Mbit/s  
95th percentile per-packet one-way delay: -13.154 ms  
Loss rate: 0.00%

Run 3: Report of Vivace-latency — Data Link



Run 4: Statistics of Vivace-latency

Start at: 2018-02-04 21:49:10

End at: 2018-02-04 21:49:40

Local clock offset: 0.019 ms

Remote clock offset: 2.097 ms

# Below is generated by plot.py at 2018-02-05 01:05:45

# Datalink statistics

-- Total of 3 flows:

Average throughput: 76.55 Mbit/s

95th percentile per-packet one-way delay: 6.553 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 47.81 Mbit/s

95th percentile per-packet one-way delay: 5.537 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 33.95 Mbit/s

95th percentile per-packet one-way delay: 4.525 ms

Loss rate: 0.00%

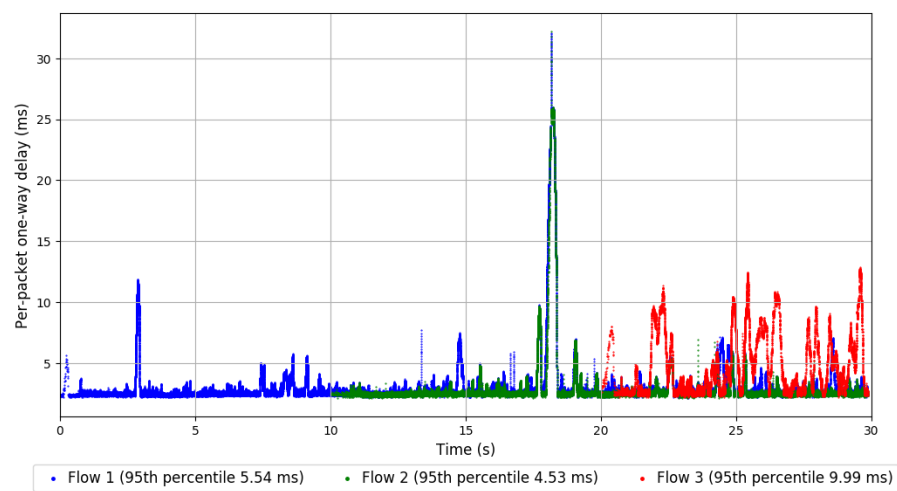
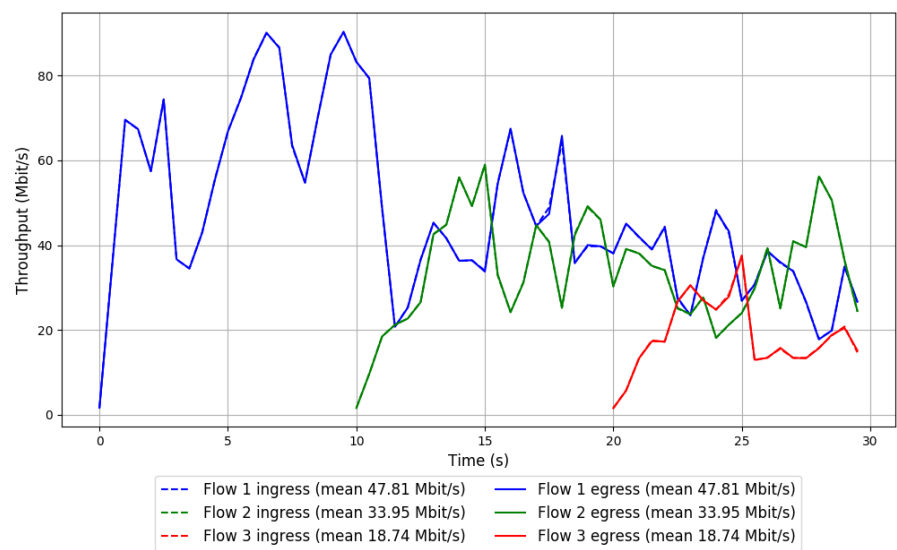
-- Flow 3:

Average throughput: 18.74 Mbit/s

95th percentile per-packet one-way delay: 9.994 ms

Loss rate: 0.00%

Run 4: Report of Vivace-latency — Data Link



Run 5: Statistics of Vivace-latency

Start at: 2018-02-04 22:09:33

End at: 2018-02-04 22:10:03

Local clock offset: 0.059 ms

Remote clock offset: 3.089 ms

# Below is generated by plot.py at 2018-02-05 01:05:45

# Datalink statistics

-- Total of 3 flows:

Average throughput: 60.56 Mbit/s

95th percentile per-packet one-way delay: 11.780 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 18.16 Mbit/s

95th percentile per-packet one-way delay: 14.283 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 48.05 Mbit/s

95th percentile per-packet one-way delay: 3.266 ms

Loss rate: 0.00%

-- Flow 3:

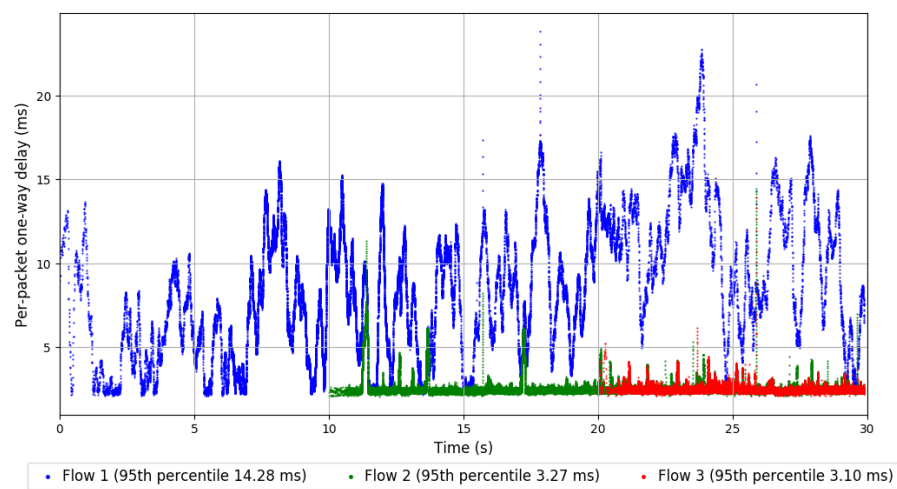
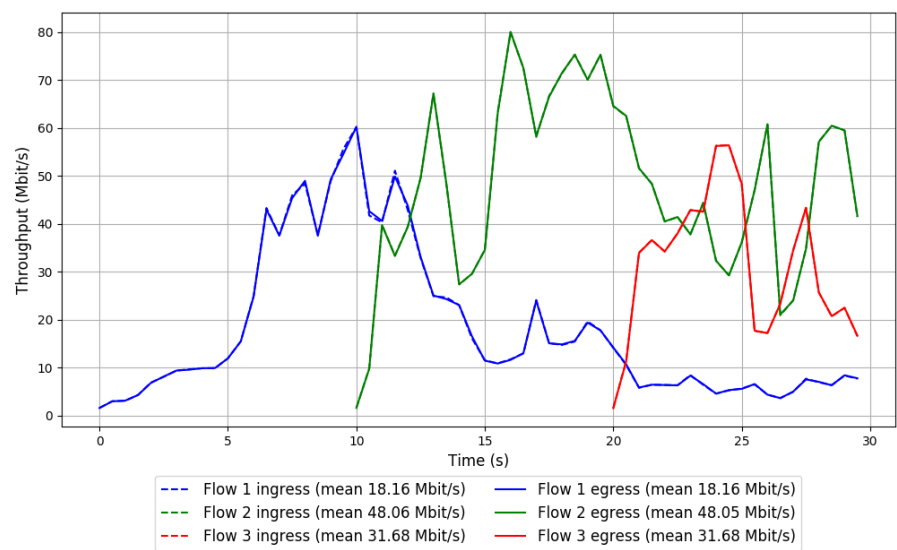
Average throughput: 31.68 Mbit/s

95th percentile per-packet one-way delay: 3.100 ms

Loss rate: 0.00%



Run 5: Report of Vivace-latency — Data Link

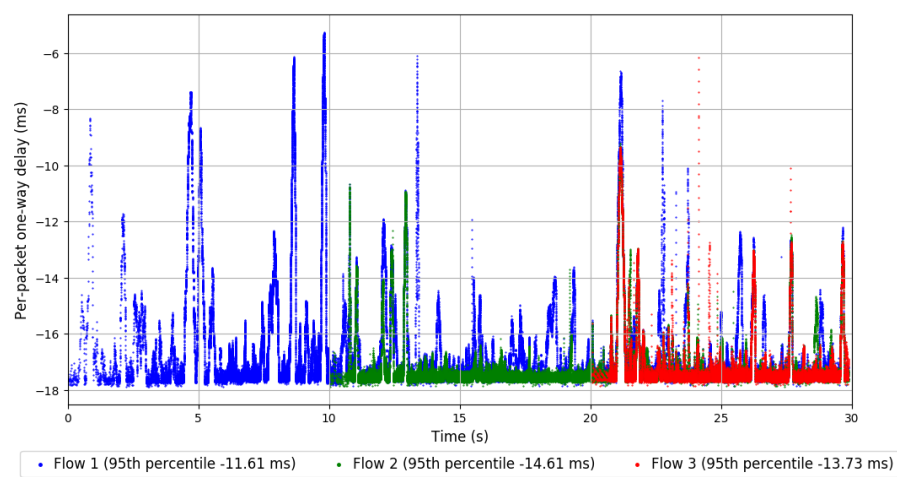
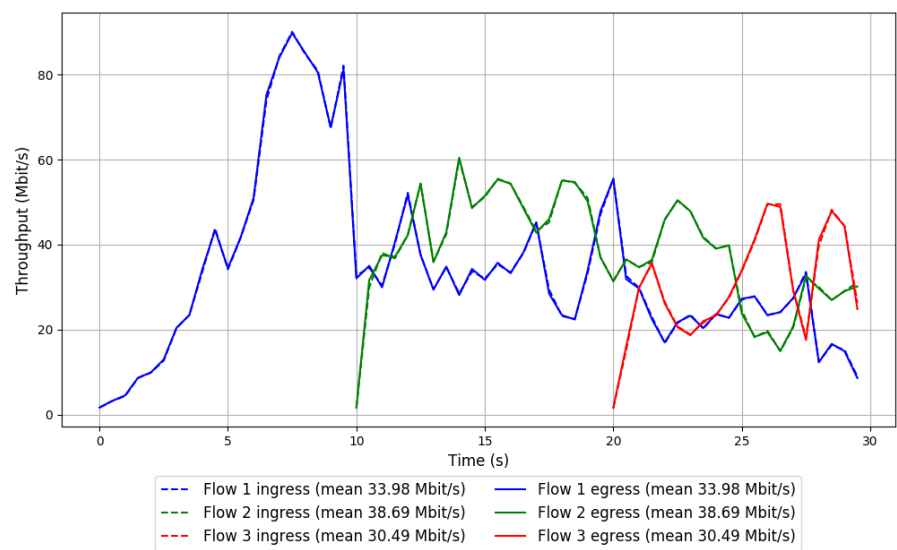


Run 6: Statistics of Vivace-latency

Start at: 2018-02-04 22:30:07  
End at: 2018-02-04 22:30:37  
Local clock offset: -0.001 ms  
Remote clock offset: -16.791 ms

# Below is generated by plot.py at 2018-02-05 01:05:45  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 69.75 Mbit/s  
95th percentile per-packet one-way delay: -13.134 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 33.98 Mbit/s  
95th percentile per-packet one-way delay: -11.614 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 38.69 Mbit/s  
95th percentile per-packet one-way delay: -14.612 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 30.49 Mbit/s  
95th percentile per-packet one-way delay: -13.730 ms  
Loss rate: 0.00%

Run 6: Report of Vivace-latency — Data Link



Run 7: Statistics of Vivace-latency

Start at: 2018-02-04 22:50:46

End at: 2018-02-04 22:51:16

Local clock offset: 0.008 ms

Remote clock offset: 1.82 ms

# Below is generated by plot.py at 2018-02-05 01:05:45

# Datalink statistics

-- Total of 3 flows:

Average throughput: 36.54 Mbit/s

95th percentile per-packet one-way delay: 42.843 ms

Loss rate: 1.24%

-- Flow 1:

Average throughput: 28.80 Mbit/s

95th percentile per-packet one-way delay: 38.137 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 7.56 Mbit/s

95th percentile per-packet one-way delay: 49.974 ms

Loss rate: 7.96%

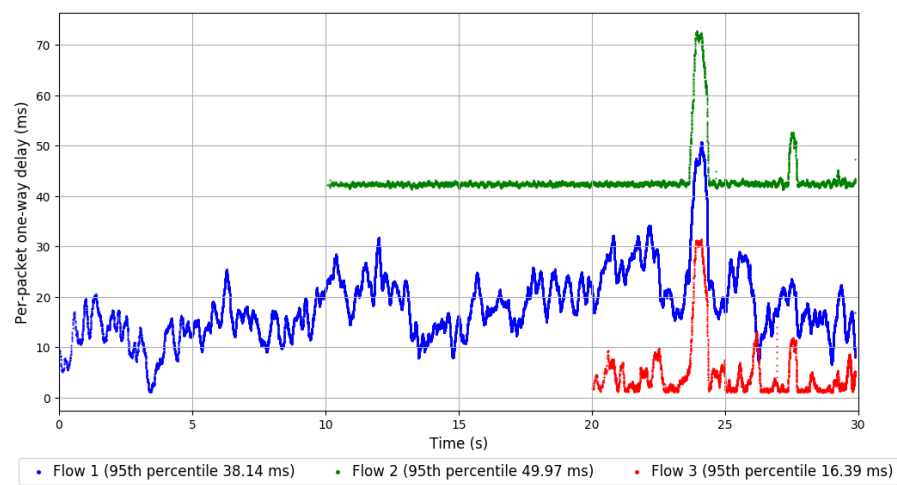
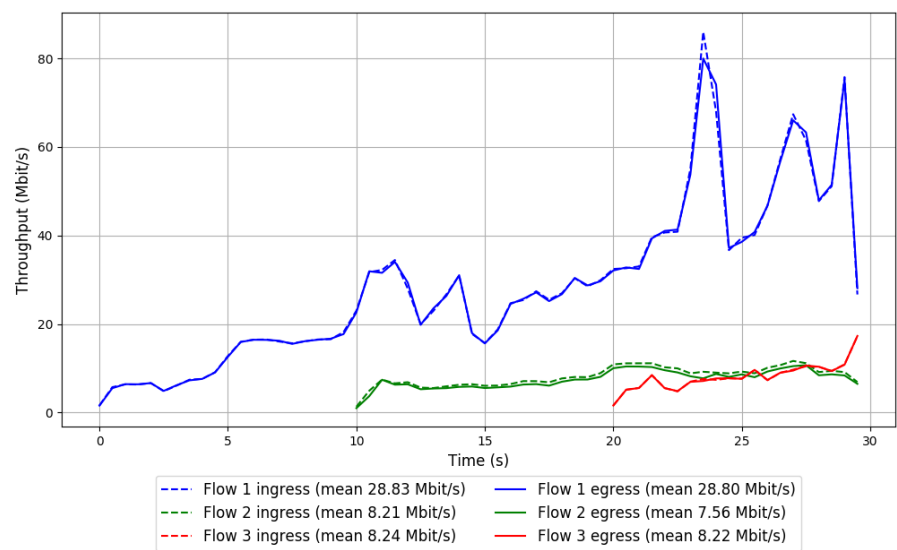
-- Flow 3:

Average throughput: 8.22 Mbit/s

95th percentile per-packet one-way delay: 16.391 ms

Loss rate: 0.10%

Run 7: Report of Vivace-latency — Data Link



Run 8: Statistics of Vivace-latency

Start at: 2018-02-04 23:11:20

End at: 2018-02-04 23:11:50

Local clock offset: 0.023 ms

Remote clock offset: 2.583 ms

# Below is generated by plot.py at 2018-02-05 01:05:45

# Datalink statistics

-- Total of 3 flows:

Average throughput: 19.48 Mbit/s

95th percentile per-packet one-way delay: 32.955 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 8.61 Mbit/s

95th percentile per-packet one-way delay: 34.746 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 8.58 Mbit/s

95th percentile per-packet one-way delay: 12.204 ms

Loss rate: 0.09%

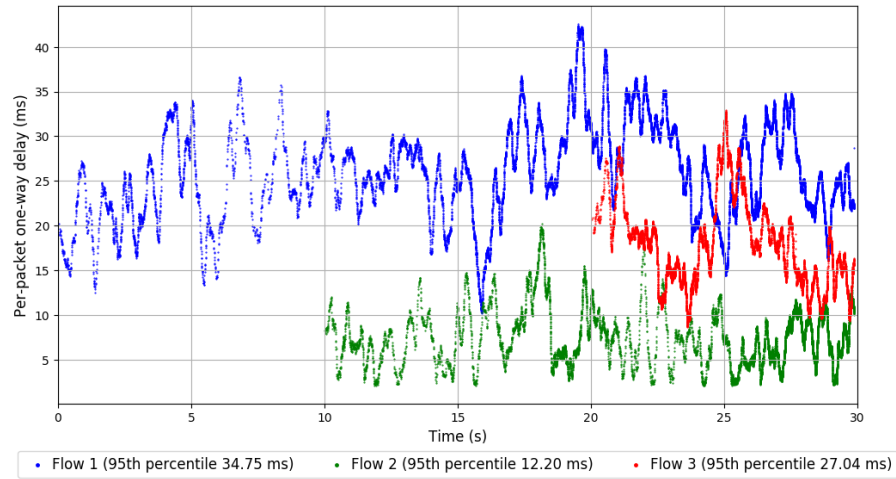
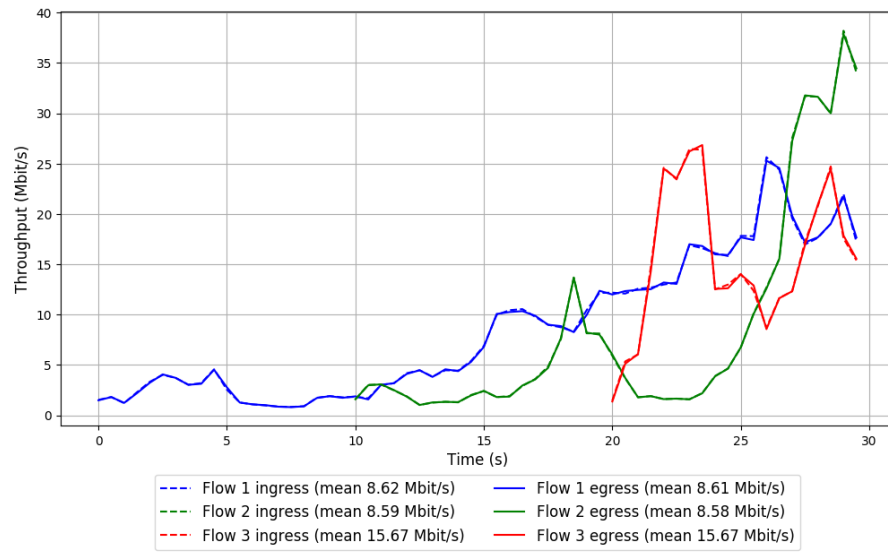
-- Flow 3:

Average throughput: 15.67 Mbit/s

95th percentile per-packet one-way delay: 27.038 ms

Loss rate: 0.13%

# Run 8: Report of Vivace-latency — Data Link



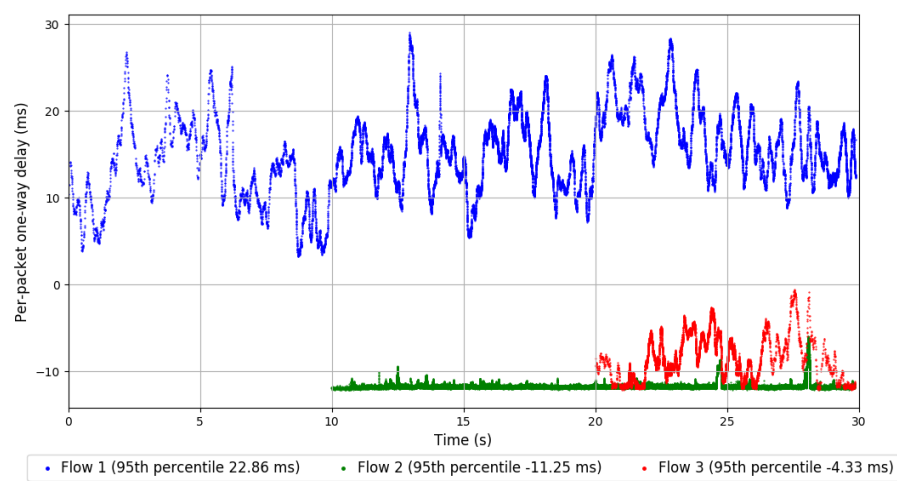
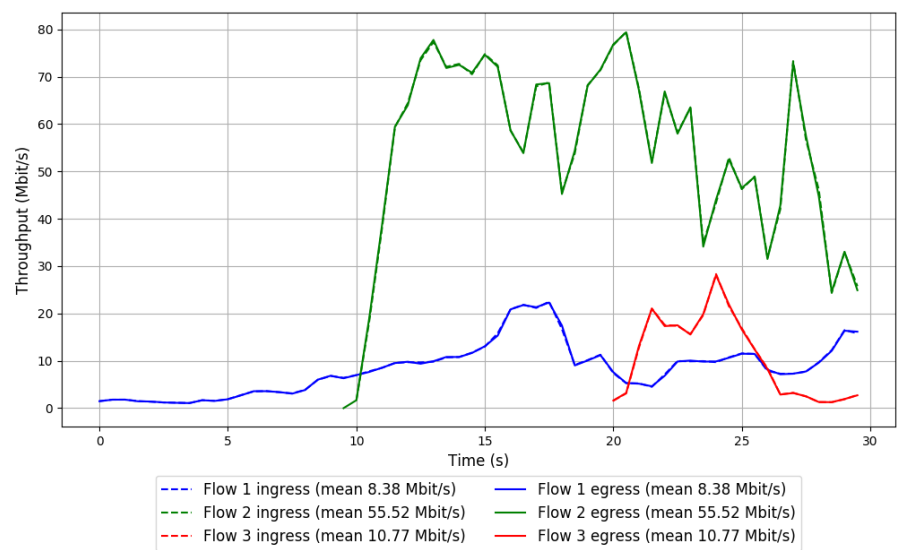
Run 9: Statistics of Vivace-latency

Start at: 2018-02-04 23:32:00  
End at: 2018-02-04 23:32:30  
Local clock offset: 0.009 ms  
Remote clock offset: -11.58 ms

# Below is generated by plot.py at 2018-02-05 01:05:45  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 48.86 Mbit/s  
95th percentile per-packet one-way delay: 17.773 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 8.38 Mbit/s  
95th percentile per-packet one-way delay: 22.863 ms  
Loss rate: 0.06%  
-- Flow 2:  
Average throughput: 55.52 Mbit/s  
95th percentile per-packet one-way delay: -11.247 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 10.77 Mbit/s  
95th percentile per-packet one-way delay: -4.326 ms  
Loss rate: 0.00%



Run 9: Report of Vivace-latency — Data Link



Run 10: Statistics of Vivace-latency

Start at: 2018-02-04 23:52:49

End at: 2018-02-04 23:53:19

Local clock offset: -0.011 ms

Remote clock offset: -7.94 ms

# Below is generated by plot.py at 2018-02-05 01:06:12

# Datalink statistics

-- Total of 3 flows:

Average throughput: 75.98 Mbit/s

95th percentile per-packet one-way delay: -4.800 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 41.29 Mbit/s

95th percentile per-packet one-way delay: -5.804 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 50.37 Mbit/s

95th percentile per-packet one-way delay: -5.605 ms

Loss rate: 0.00%

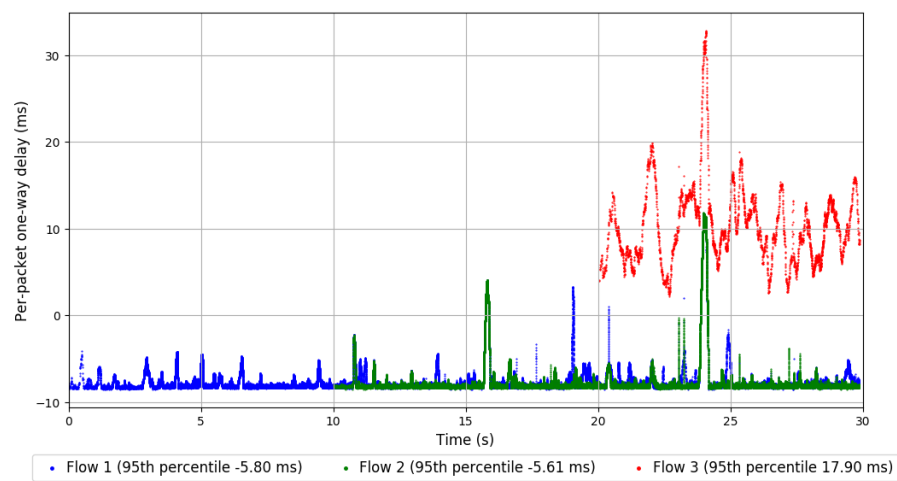
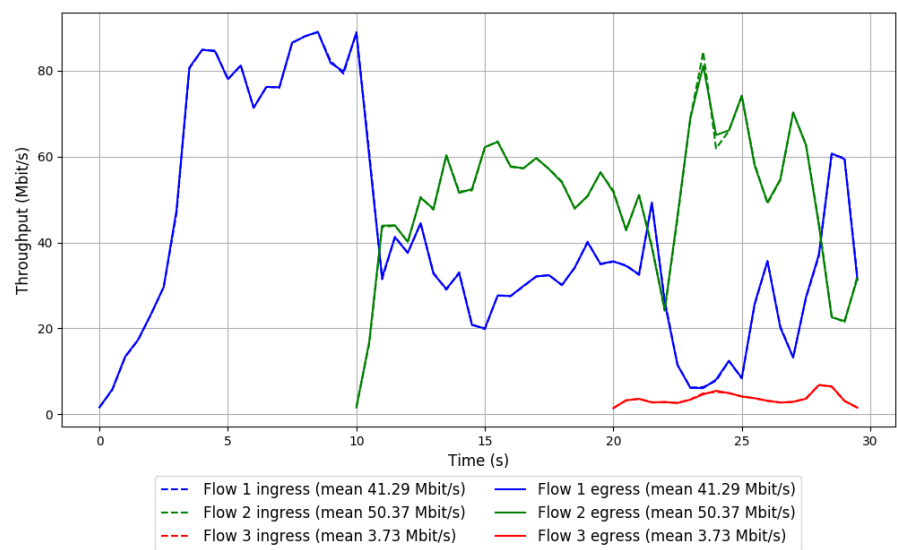
-- Flow 3:

Average throughput: 3.73 Mbit/s

95th percentile per-packet one-way delay: 17.899 ms

Loss rate: 0.00%

Run 10: Report of Vivace-latency — Data Link

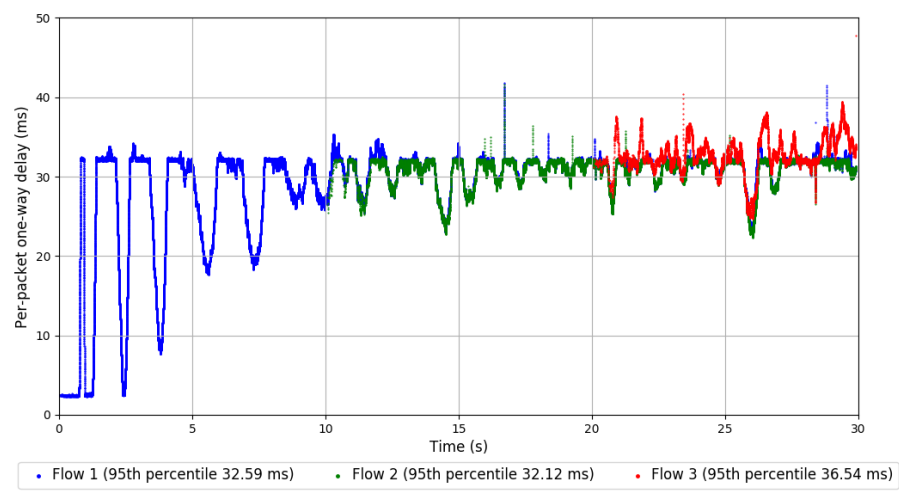
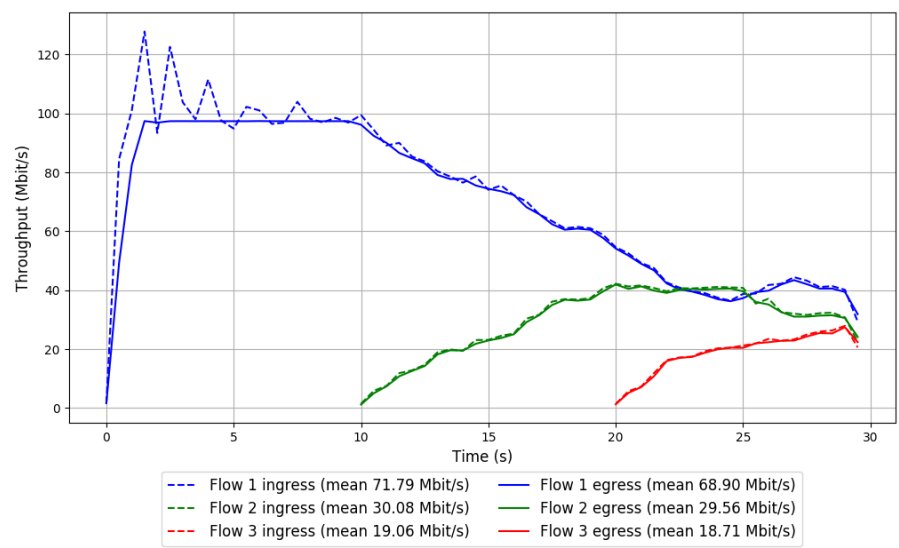


```
Run 1: Statistics of Vivace-loss

Start at: 2018-02-04 20:57:41
End at: 2018-02-04 20:58:11
Local clock offset: -0.014 ms
Remote clock offset: 2.322 ms

# Below is generated by plot.py at 2018-02-05 01:06:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.66 Mbit/s
95th percentile per-packet one-way delay: 33.056 ms
Loss rate: 3.35%
-- Flow 1:
Average throughput: 68.90 Mbit/s
95th percentile per-packet one-way delay: 32.593 ms
Loss rate: 3.94%
-- Flow 2:
Average throughput: 29.56 Mbit/s
95th percentile per-packet one-way delay: 32.123 ms
Loss rate: 1.72%
-- Flow 3:
Average throughput: 18.71 Mbit/s
95th percentile per-packet one-way delay: 36.544 ms
Loss rate: 1.71%
```

Run 1: Report of Vivace-loss — Data Link



Run 2: Statistics of Vivace-loss

Start at: 2018-02-04 21:18:18

End at: 2018-02-04 21:18:48

Local clock offset: 0.071 ms

Remote clock offset: 2.179 ms

# Below is generated by plot.py at 2018-02-05 01:06:45

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.03 Mbit/s

95th percentile per-packet one-way delay: 34.394 ms

Loss rate: 2.86%

-- Flow 1:

Average throughput: 70.99 Mbit/s

95th percentile per-packet one-way delay: 32.777 ms

Loss rate: 3.18%

-- Flow 2:

Average throughput: 28.27 Mbit/s

95th percentile per-packet one-way delay: 37.806 ms

Loss rate: 1.90%

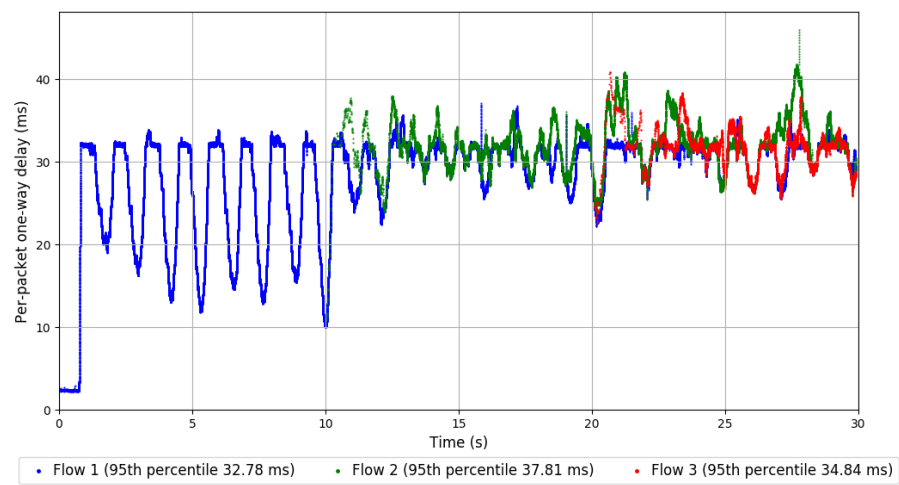
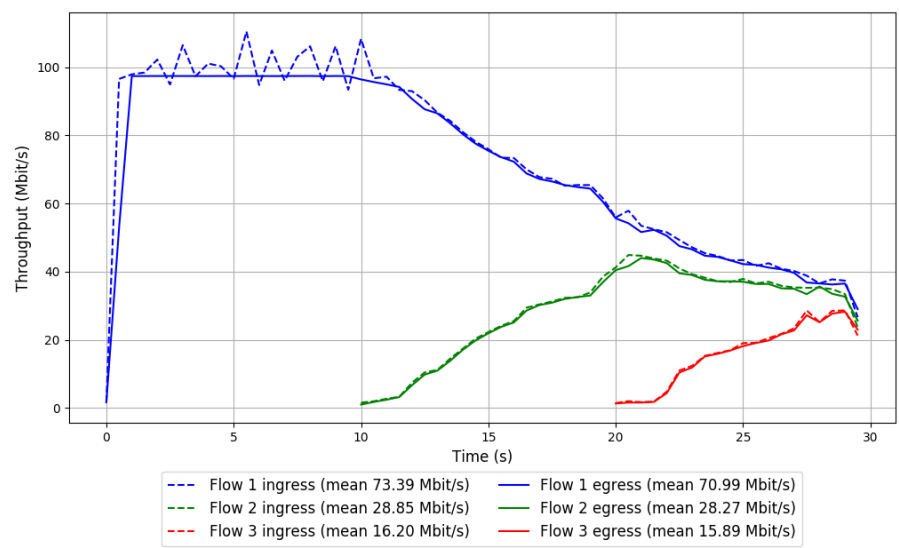
-- Flow 3:

Average throughput: 15.89 Mbit/s

95th percentile per-packet one-way delay: 34.835 ms

Loss rate: 1.90%

Run 2: Report of Vivace-loss — Data Link



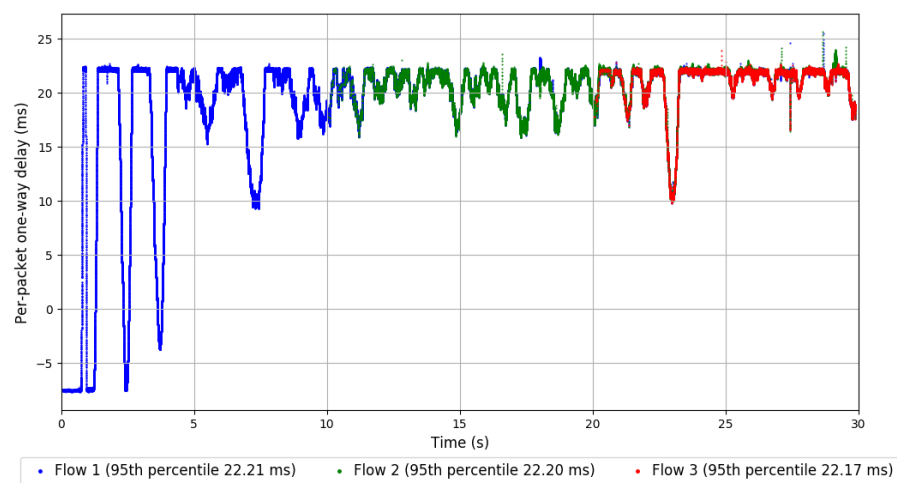
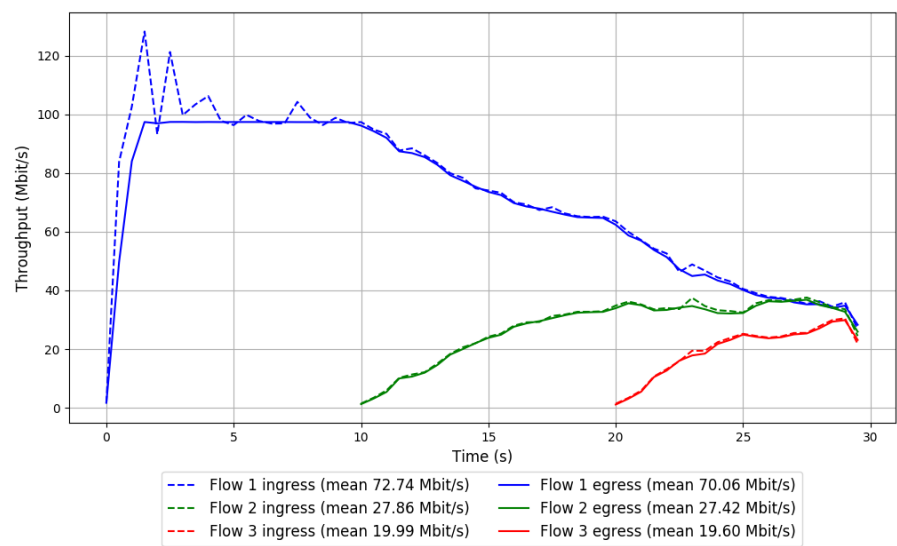
Run 3: Statistics of Vivace-loss

Start at: 2018-02-04 21:38:48  
End at: 2018-02-04 21:39:18  
Local clock offset: -0.042 ms  
Remote clock offset: -7.873 ms

# Below is generated by plot.py at 2018-02-05 01:06:46  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.73 Mbit/s  
95th percentile per-packet one-way delay: 22.206 ms  
Loss rate: 3.11%  
-- Flow 1:  
Average throughput: 70.06 Mbit/s  
95th percentile per-packet one-way delay: 22.210 ms  
Loss rate: 3.61%  
-- Flow 2:  
Average throughput: 27.42 Mbit/s  
95th percentile per-packet one-way delay: 22.198 ms  
Loss rate: 1.60%  
-- Flow 3:  
Average throughput: 19.60 Mbit/s  
95th percentile per-packet one-way delay: 22.169 ms  
Loss rate: 1.93%



Run 3: Report of Vivace-loss — Data Link



Run 4: Statistics of Vivace-loss

Start at: 2018-02-04 21:59:17

End at: 2018-02-04 21:59:47

Local clock offset: -0.021 ms

Remote clock offset: 2.63 ms

# Below is generated by plot.py at 2018-02-05 01:06:46

# Datalink statistics

-- Total of 3 flows:

Average throughput: 62.71 Mbit/s

95th percentile per-packet one-way delay: 32.254 ms

Loss rate: 4.80%

-- Flow 1:

Average throughput: 1.26 Mbit/s

95th percentile per-packet one-way delay: 73.657 ms

Loss rate: 15.93%

-- Flow 2:

Average throughput: 83.10 Mbit/s

95th percentile per-packet one-way delay: 32.148 ms

Loss rate: 4.74%

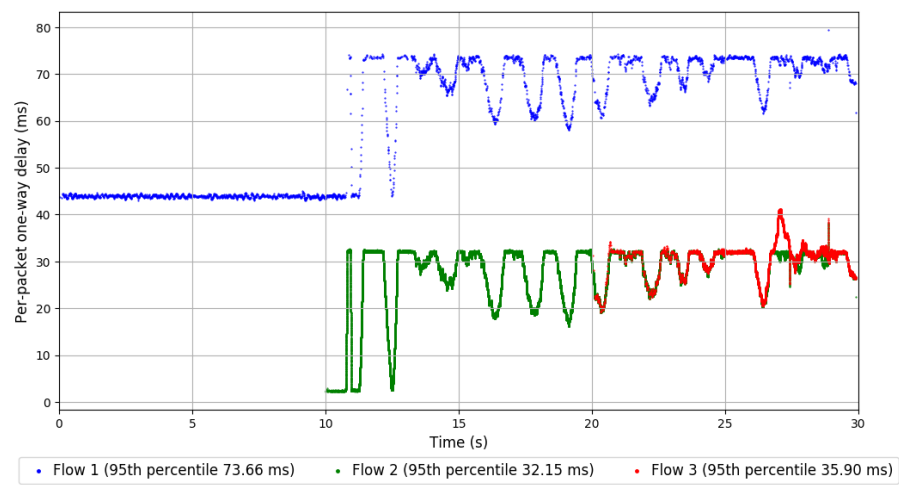
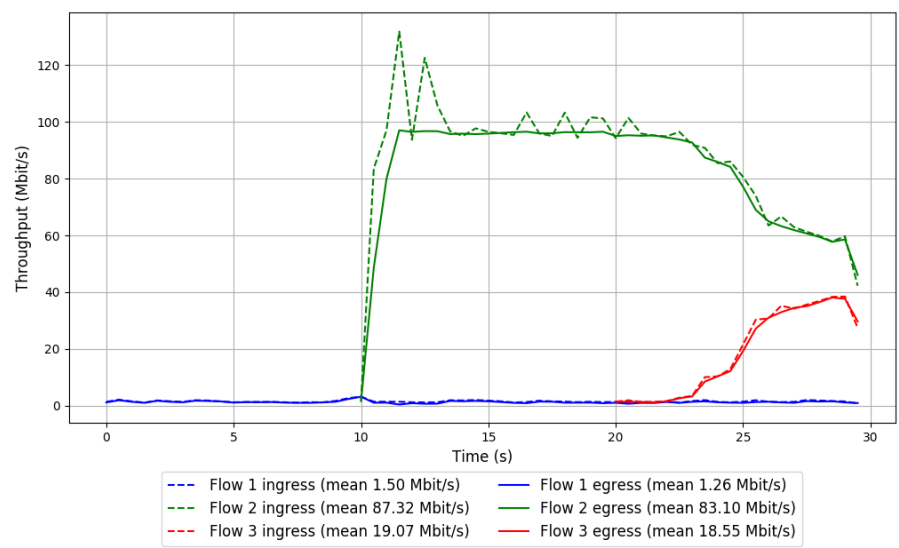
-- Flow 3:

Average throughput: 18.55 Mbit/s

95th percentile per-packet one-way delay: 35.902 ms

Loss rate: 2.77%

Run 4: Report of Vivace-loss — Data Link



Run 5: Statistics of Vivace-loss

Start at: 2018-02-04 22:19:41

End at: 2018-02-04 22:20:11

Local clock offset: 0.019 ms

Remote clock offset: -17.056 ms

# Below is generated by plot.py at 2018-02-05 01:07:07

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.02 Mbit/s

95th percentile per-packet one-way delay: 13.212 ms

Loss rate: 2.31%

-- Flow 1:

Average throughput: 69.38 Mbit/s

95th percentile per-packet one-way delay: 11.887 ms

Loss rate: 2.42%

-- Flow 2:

Average throughput: 29.09 Mbit/s

95th percentile per-packet one-way delay: 16.490 ms

Loss rate: 1.93%

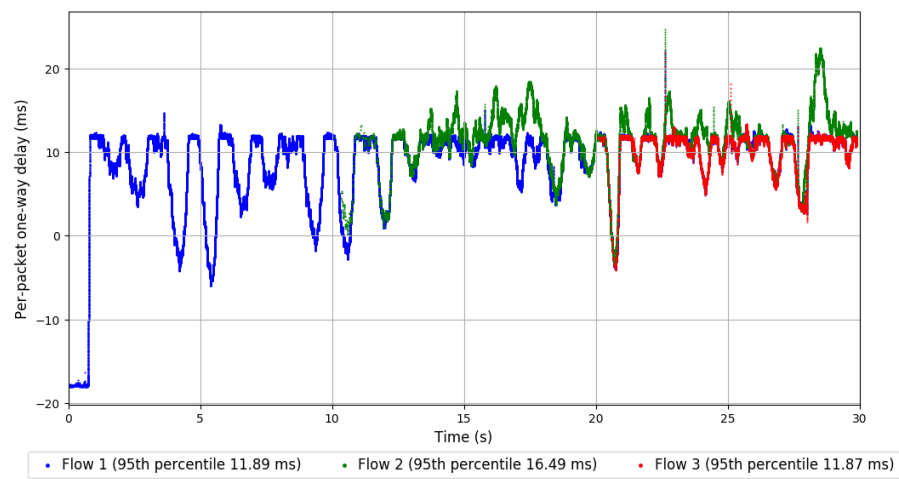
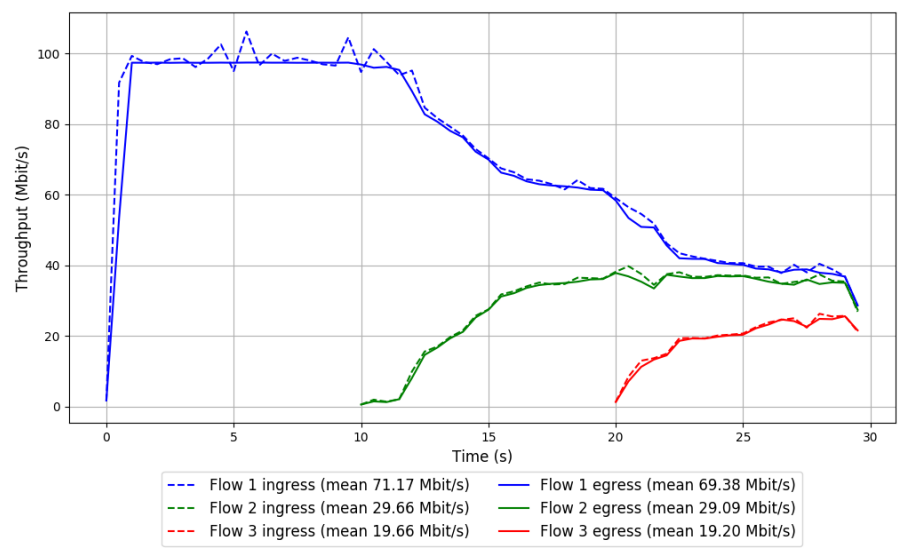
-- Flow 3:

Average throughput: 19.20 Mbit/s

95th percentile per-packet one-way delay: 11.870 ms

Loss rate: 2.36%

Run 5: Report of Vivace-loss — Data Link



Run 6: Statistics of Vivace-loss

Start at: 2018-02-04 22:40:18

End at: 2018-02-04 22:40:48

Local clock offset: 0.01 ms

Remote clock offset: 2.807 ms

# Below is generated by plot.py at 2018-02-05 01:07:11

# Datalink statistics

-- Total of 3 flows:

Average throughput: 94.33 Mbit/s

95th percentile per-packet one-way delay: 65.062 ms

Loss rate: 3.59%

-- Flow 1:

Average throughput: 64.22 Mbit/s

95th percentile per-packet one-way delay: 65.982 ms

Loss rate: 3.84%

-- Flow 2:

Average throughput: 36.62 Mbit/s

95th percentile per-packet one-way delay: 31.842 ms

Loss rate: 3.26%

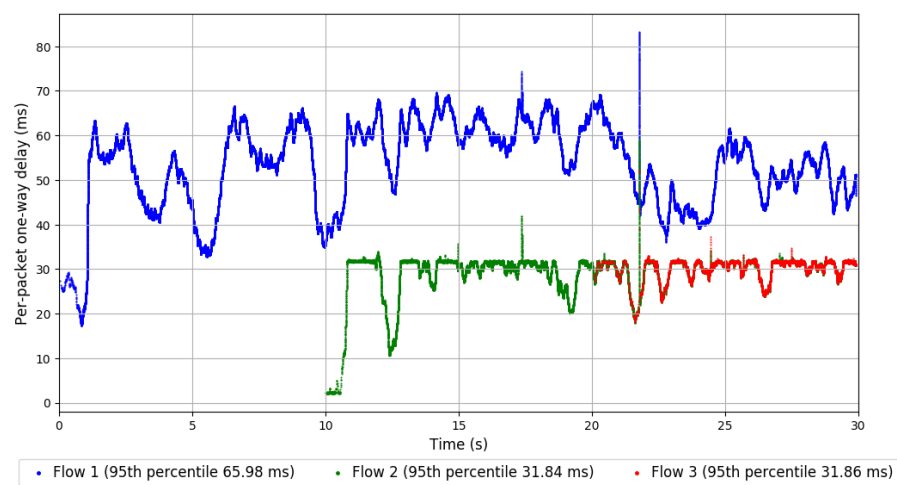
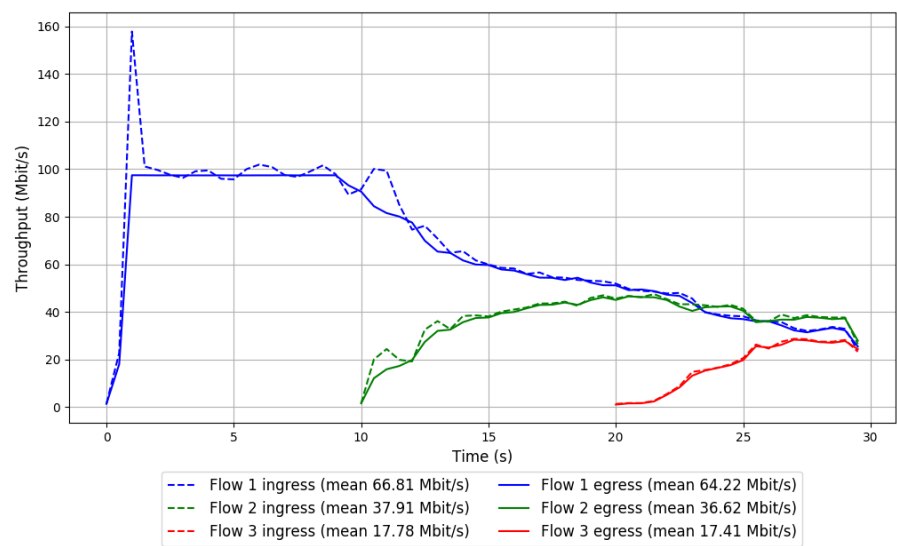
-- Flow 3:

Average throughput: 17.41 Mbit/s

95th percentile per-packet one-way delay: 31.855 ms

Loss rate: 2.06%

Run 6: Report of Vivace-loss — Data Link



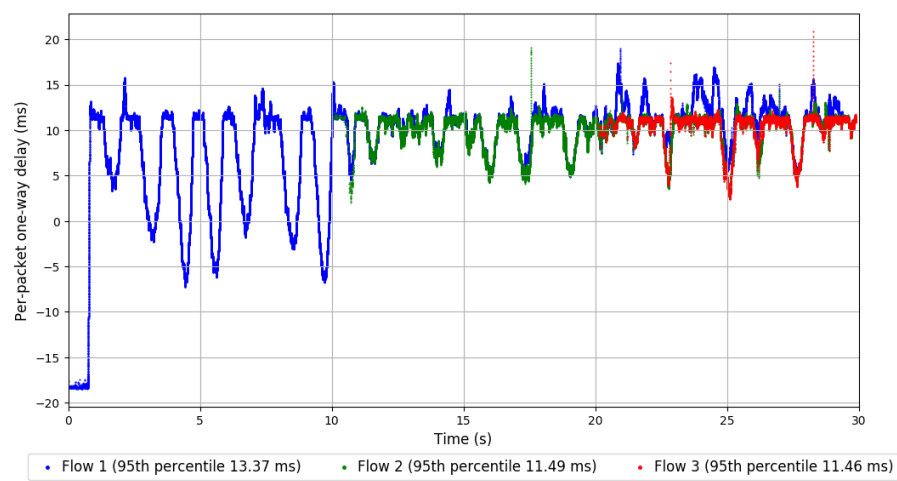
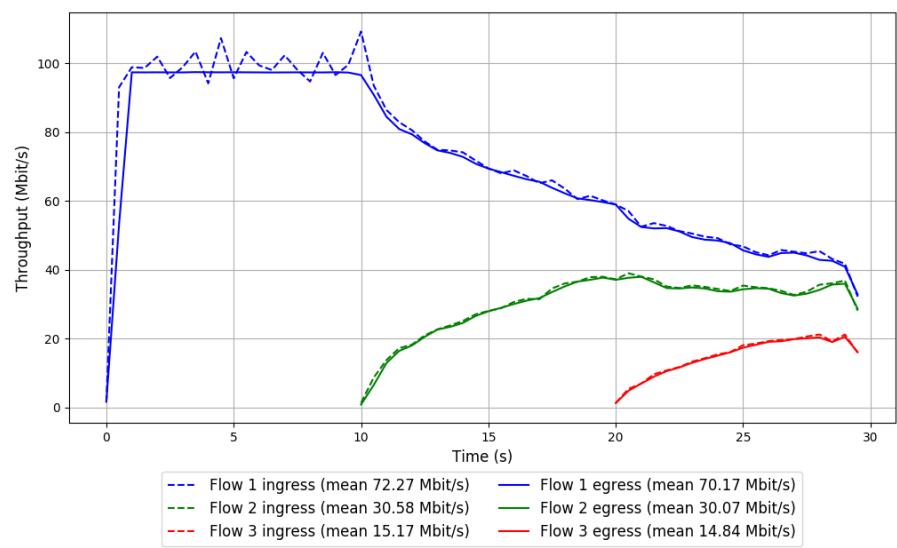
Run 7: Statistics of Vivace-loss

Start at: 2018-02-04 23:00:52  
End at: 2018-02-04 23:01:23  
Local clock offset: -0.023 ms  
Remote clock offset: -17.929 ms

# Below is generated by plot.py at 2018-02-05 01:07:15  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.02 Mbit/s  
95th percentile per-packet one-way delay: 12.839 ms  
Loss rate: 2.55%  
-- Flow 1:  
Average throughput: 70.17 Mbit/s  
95th percentile per-packet one-way delay: 13.368 ms  
Loss rate: 2.82%  
-- Flow 2:  
Average throughput: 30.07 Mbit/s  
95th percentile per-packet one-way delay: 11.493 ms  
Loss rate: 1.68%  
-- Flow 3:  
Average throughput: 14.84 Mbit/s  
95th percentile per-packet one-way delay: 11.459 ms  
Loss rate: 2.12%



Run 7: Report of Vivace-loss — Data Link



Run 8: Statistics of Vivace-loss

Start at: 2018-02-04 23:21:31

End at: 2018-02-04 23:22:01

Local clock offset: -0.001 ms

Remote clock offset: 2.629 ms

# Below is generated by plot.py at 2018-02-05 01:07:16

# Datalink statistics

-- Total of 3 flows:

Average throughput: 61.70 Mbit/s

95th percentile per-packet one-way delay: 58.124 ms

Loss rate: 6.00%

-- Flow 1:

Average throughput: 1.20 Mbit/s

95th percentile per-packet one-way delay: 73.675 ms

Loss rate: 17.15%

-- Flow 2:

Average throughput: 75.94 Mbit/s

95th percentile per-packet one-way delay: 58.112 ms

Loss rate: 5.61%

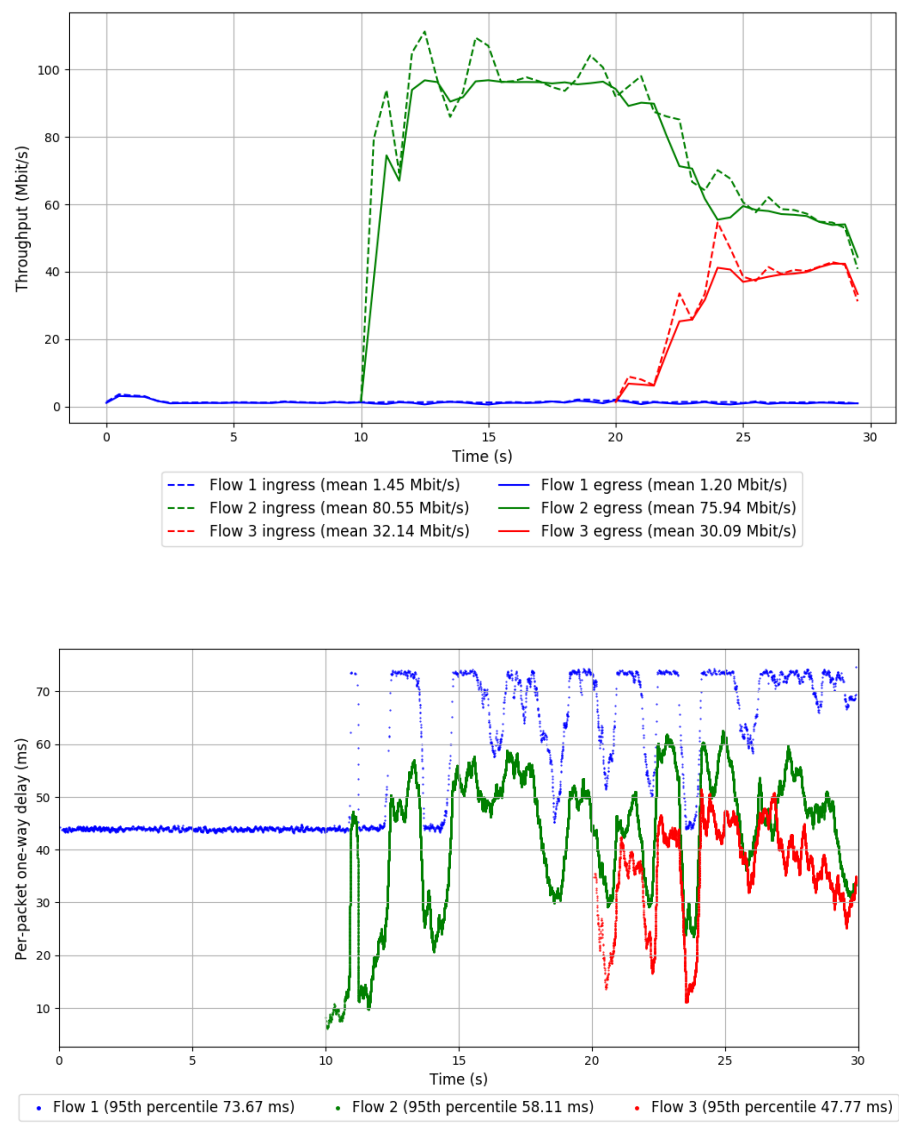
-- Flow 3:

Average throughput: 30.09 Mbit/s

95th percentile per-packet one-way delay: 47.768 ms

Loss rate: 6.41%

Run 8: Report of Vivace-loss — Data Link



Run 9: Statistics of Vivace-loss

Start at: 2018-02-04 23:42:16

End at: 2018-02-04 23:42:46

Local clock offset: -0.088 ms

Remote clock offset: 2.655 ms

# Below is generated by plot.py at 2018-02-05 01:08:02

# Datalink statistics

-- Total of 3 flows:

Average throughput: 94.58 Mbit/s

95th percentile per-packet one-way delay: 35.648 ms

Loss rate: 6.21%

-- Flow 1:

Average throughput: 77.17 Mbit/s

95th percentile per-packet one-way delay: 36.015 ms

Loss rate: 6.95%

-- Flow 2:

Average throughput: 15.99 Mbit/s

95th percentile per-packet one-way delay: 34.531 ms

Loss rate: 3.13%

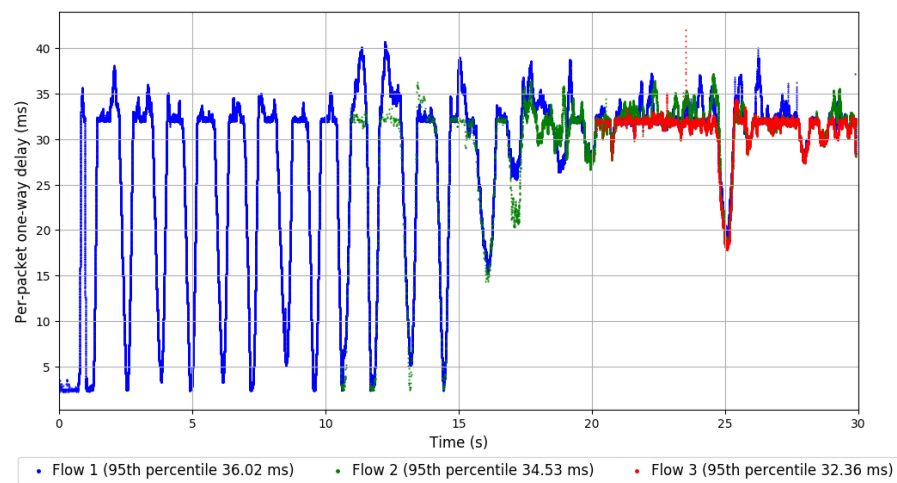
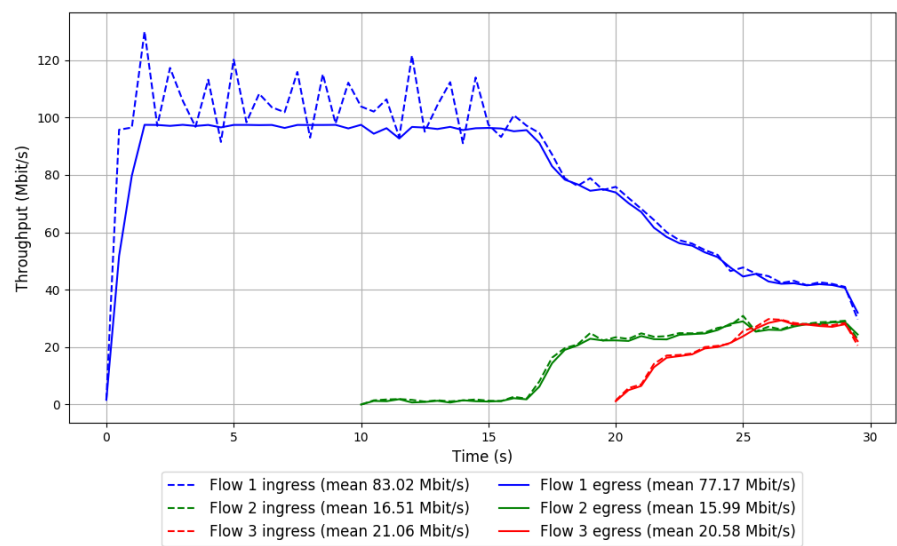
-- Flow 3:

Average throughput: 20.58 Mbit/s

95th percentile per-packet one-way delay: 32.359 ms

Loss rate: 2.23%

Run 9: Report of Vivace-loss — Data Link



Run 10: Statistics of Vivace-loss

Start at: 2018-02-05 00:03:07

End at: 2018-02-05 00:03:37

Local clock offset: -0.01 ms

Remote clock offset: 2.425 ms

# Below is generated by plot.py at 2018-02-05 01:08:02

# Datalink statistics

-- Total of 3 flows:

Average throughput: 89.43 Mbit/s

95th percentile per-packet one-way delay: 70.184 ms

Loss rate: 2.50%

-- Flow 1:

Average throughput: 65.22 Mbit/s

95th percentile per-packet one-way delay: 70.795 ms

Loss rate: 2.38%

-- Flow 2:

Average throughput: 30.86 Mbit/s

95th percentile per-packet one-way delay: 35.384 ms

Loss rate: 2.76%

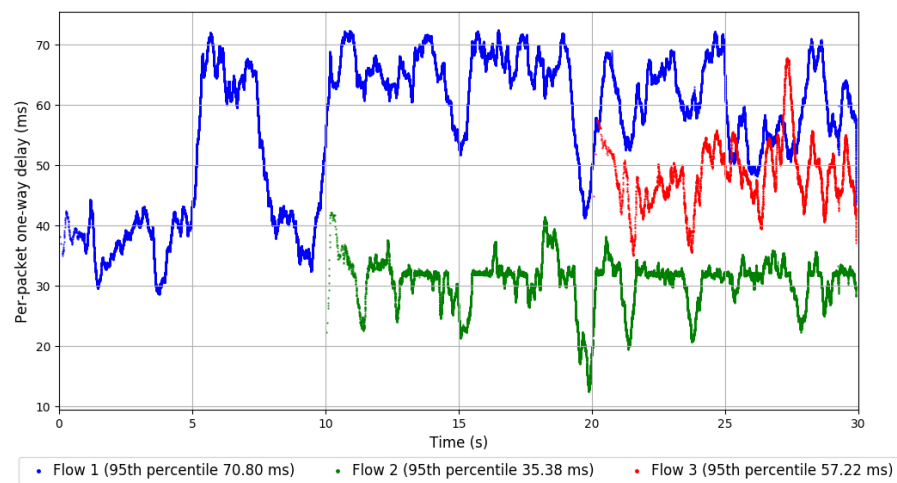
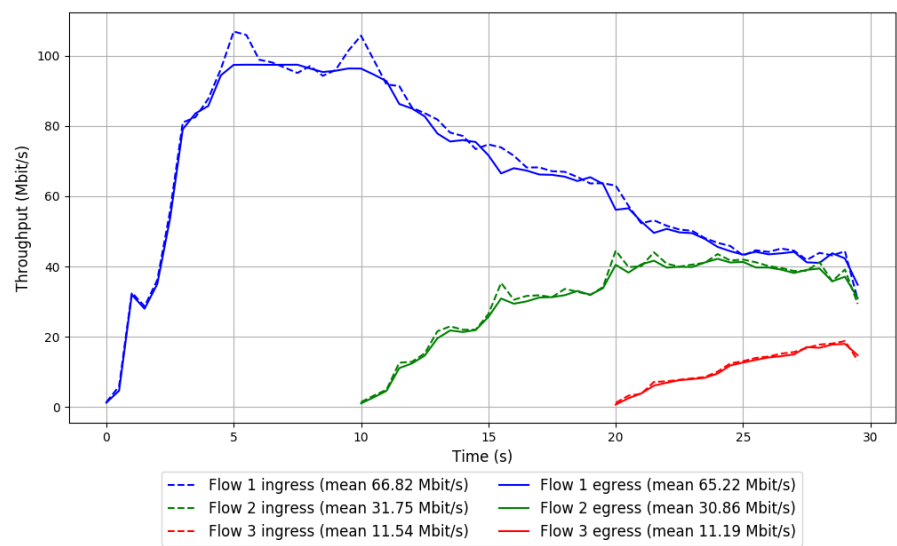
-- Flow 3:

Average throughput: 11.19 Mbit/s

95th percentile per-packet one-way delay: 57.220 ms

Loss rate: 3.14%

Run 10: Report of Vivace-loss — Data Link



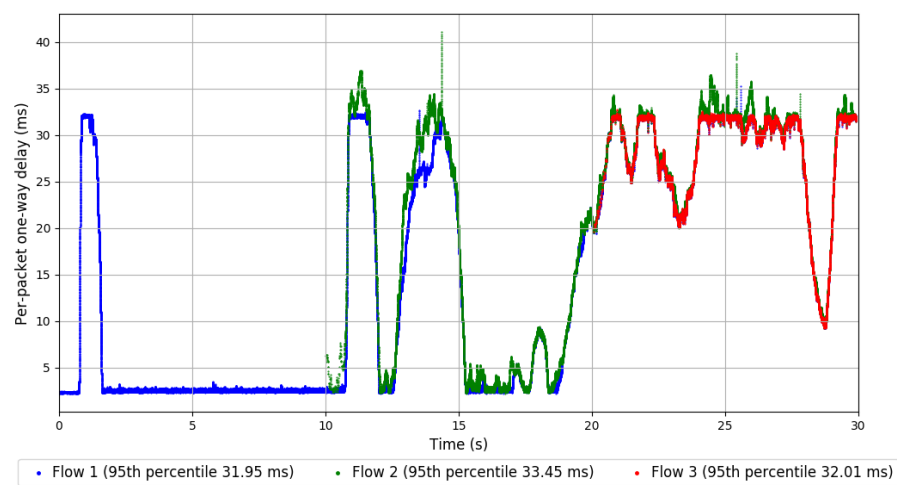
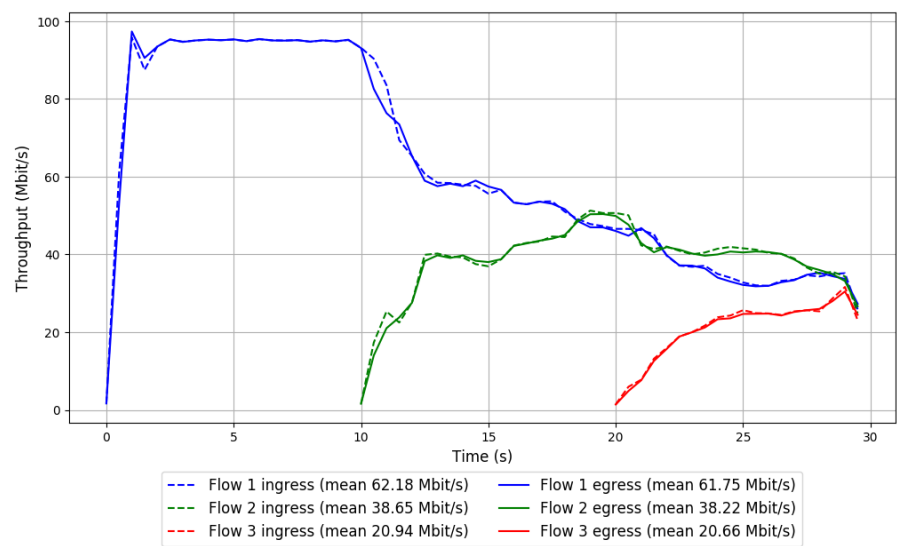
```
Run 1: Statistics of Vivace-LTE

Start at: 2018-02-04 20:56:31
End at: 2018-02-04 20:57:01
Local clock offset: 0.004 ms
Remote clock offset: 2.28 ms

# Below is generated by plot.py at 2018-02-05 01:08:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.99 Mbit/s
95th percentile per-packet one-way delay: 32.087 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 61.75 Mbit/s
95th percentile per-packet one-way delay: 31.955 ms
Loss rate: 0.58%
-- Flow 2:
Average throughput: 38.22 Mbit/s
95th percentile per-packet one-way delay: 33.453 ms
Loss rate: 0.98%
-- Flow 3:
Average throughput: 20.66 Mbit/s
95th percentile per-packet one-way delay: 32.014 ms
Loss rate: 1.24%
```



Run 1: Report of Vivace-LTE — Data Link



Run 2: Statistics of Vivace-LTE

Start at: 2018-02-04 21:17:08

End at: 2018-02-04 21:17:38

Local clock offset: -0.021 ms

Remote clock offset: 2.114 ms

# Below is generated by plot.py at 2018-02-05 01:08:14

# Datalink statistics

-- Total of 3 flows:

Average throughput: 93.12 Mbit/s

95th percentile per-packet one-way delay: 31.956 ms

Loss rate: 0.49%

-- Flow 1:

Average throughput: 79.54 Mbit/s

95th percentile per-packet one-way delay: 31.317 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 3.23 Mbit/s

95th percentile per-packet one-way delay: 71.543 ms

Loss rate: 7.66%

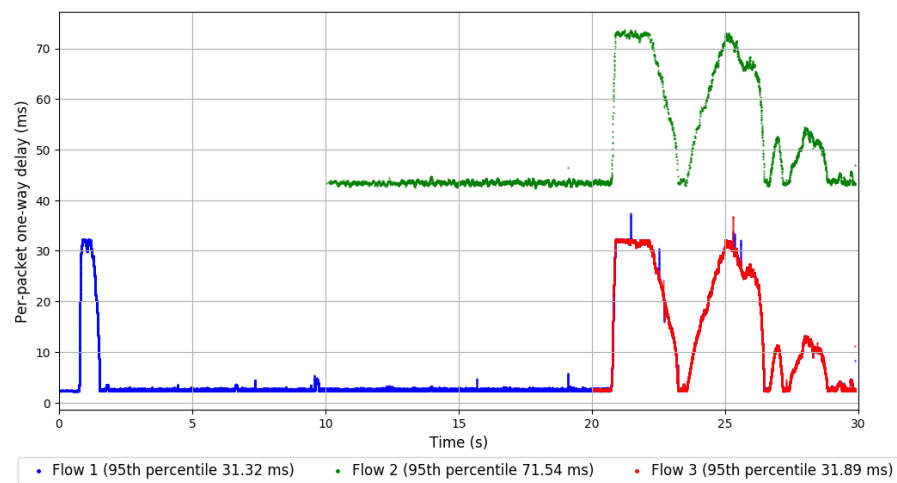
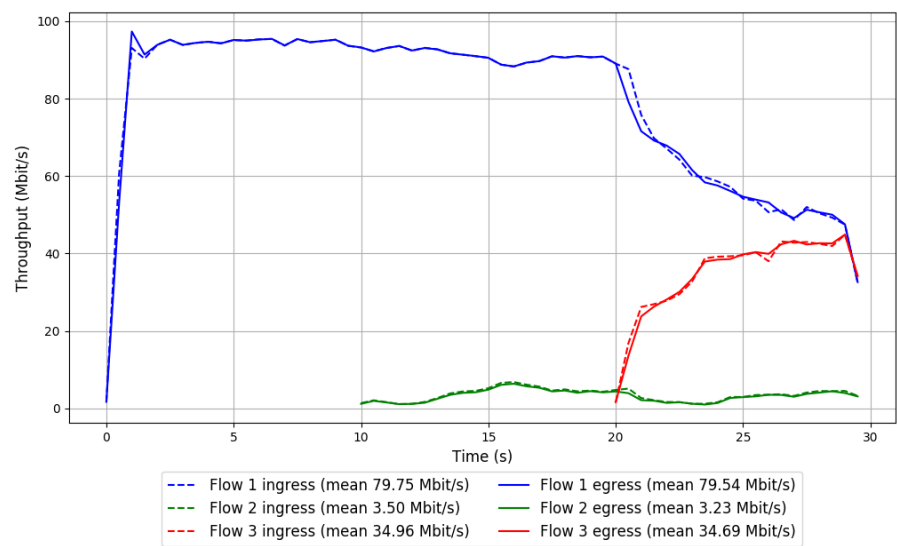
-- Flow 3:

Average throughput: 34.69 Mbit/s

95th percentile per-packet one-way delay: 31.894 ms

Loss rate: 0.69%

Run 2: Report of Vivace-LTE — Data Link

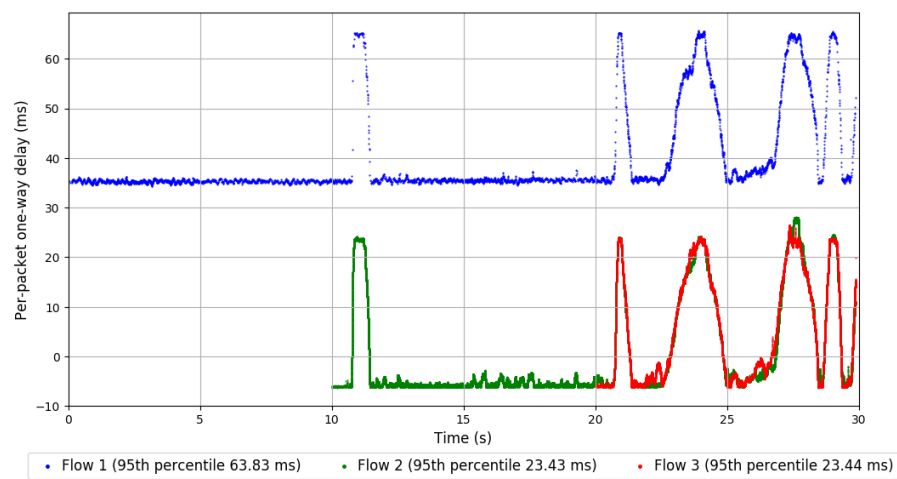
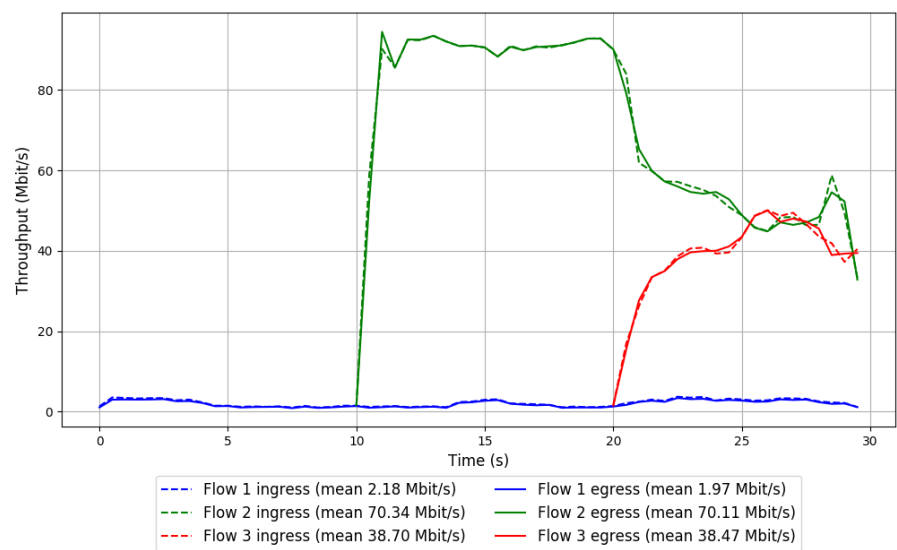


Run 3: Statistics of Vivace-LTE

Start at: 2018-02-04 21:37:41  
End at: 2018-02-04 21:38:11  
Local clock offset: 0.054 ms  
Remote clock offset: -6.361 ms

# Below is generated by plot.py at 2018-02-05 01:08:14  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 61.38 Mbit/s  
95th percentile per-packet one-way delay: 23.929 ms  
Loss rate: 0.59%  
-- Flow 1:  
Average throughput: 1.97 Mbit/s  
95th percentile per-packet one-way delay: 63.833 ms  
Loss rate: 9.49%  
-- Flow 2:  
Average throughput: 70.11 Mbit/s  
95th percentile per-packet one-way delay: 23.428 ms  
Loss rate: 0.24%  
-- Flow 3:  
Average throughput: 38.47 Mbit/s  
95th percentile per-packet one-way delay: 23.436 ms  
Loss rate: 0.36%

Run 3: Report of Vivace-LTE — Data Link



Run 4: Statistics of Vivace-LTE

Start at: 2018-02-04 21:58:07

End at: 2018-02-04 21:58:37

Local clock offset: 0.012 ms

Remote clock offset: 2.574 ms

# Below is generated by plot.py at 2018-02-05 01:08:36

# Datalink statistics

-- Total of 3 flows:

Average throughput: 93.30 Mbit/s

95th percentile per-packet one-way delay: 31.969 ms

Loss rate: 0.44%

-- Flow 1:

Average throughput: 60.11 Mbit/s

95th percentile per-packet one-way delay: 32.045 ms

Loss rate: 0.34%

-- Flow 2:

Average throughput: 38.31 Mbit/s

95th percentile per-packet one-way delay: 31.906 ms

Loss rate: 0.52%

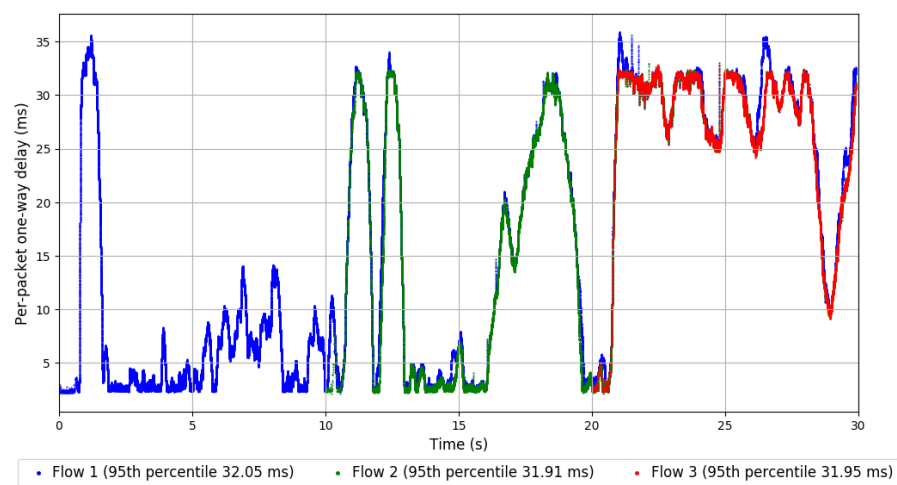
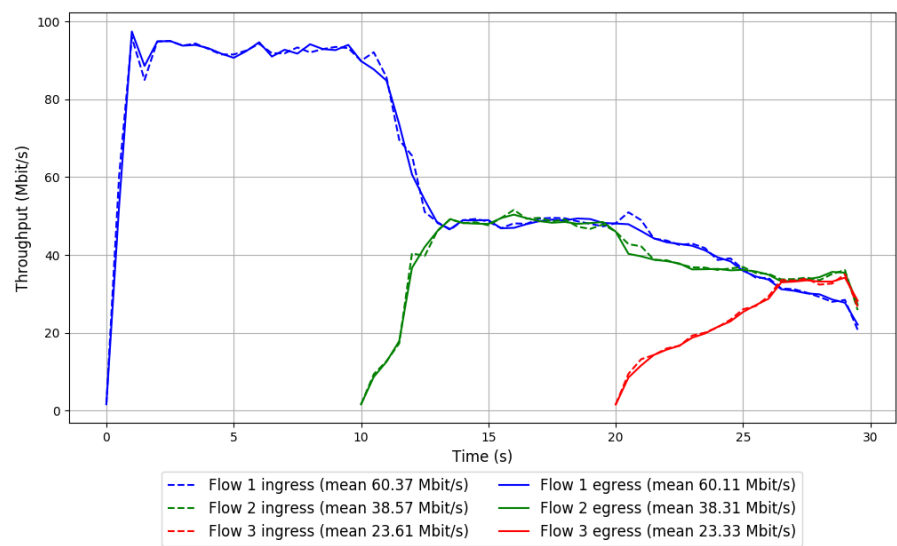
-- Flow 3:

Average throughput: 23.33 Mbit/s

95th percentile per-packet one-way delay: 31.954 ms

Loss rate: 0.92%

Run 4: Report of Vivace-LTE — Data Link



Run 5: Statistics of Vivace-LTE

Start at: 2018-02-04 22:18:31

End at: 2018-02-04 22:19:01

Local clock offset: 0.017 ms

Remote clock offset: 2.465 ms

# Below is generated by plot.py at 2018-02-05 01:08:38

# Datalink statistics

-- Total of 3 flows:

Average throughput: 91.90 Mbit/s

95th percentile per-packet one-way delay: 31.555 ms

Loss rate: 0.53%

-- Flow 1:

Average throughput: 78.03 Mbit/s

95th percentile per-packet one-way delay: 31.279 ms

Loss rate: 0.32%

-- Flow 2:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 70.614 ms

Loss rate: 8.02%

-- Flow 3:

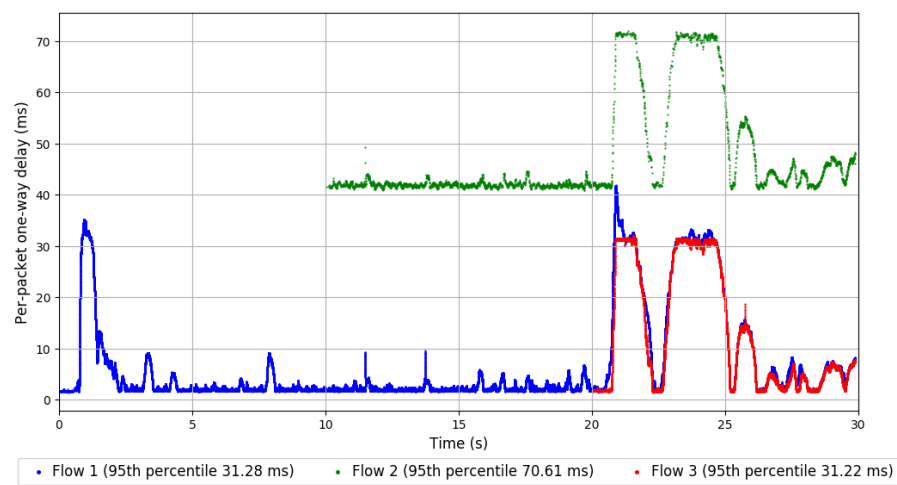
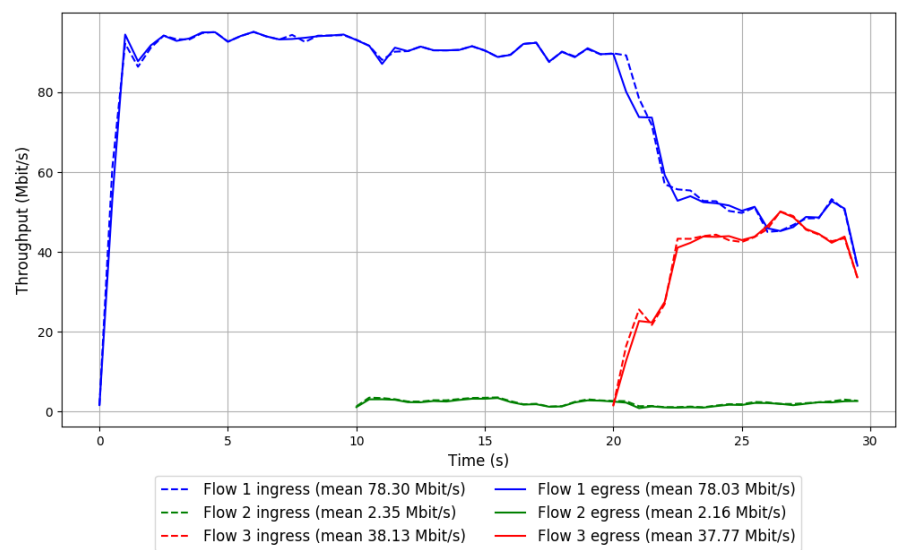
Average throughput: 37.77 Mbit/s

95th percentile per-packet one-way delay: 31.221 ms

Loss rate: 0.89%



Run 5: Report of Vivace-LTE — Data Link

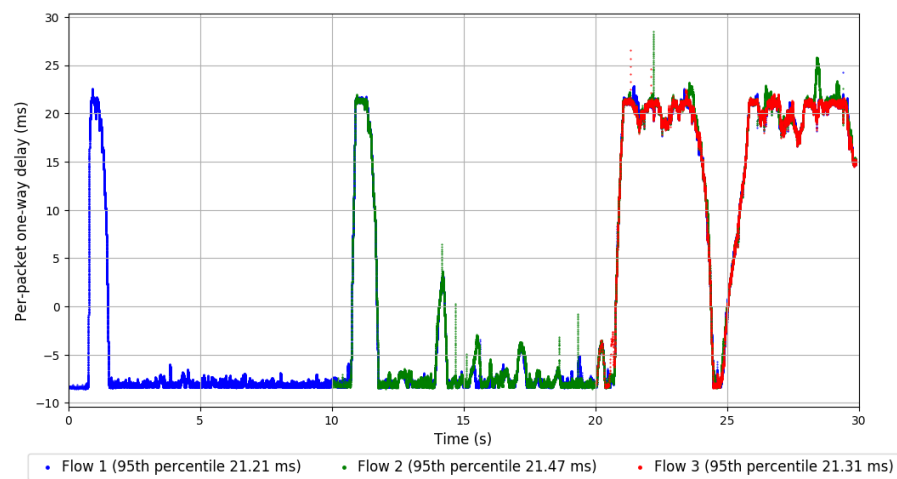
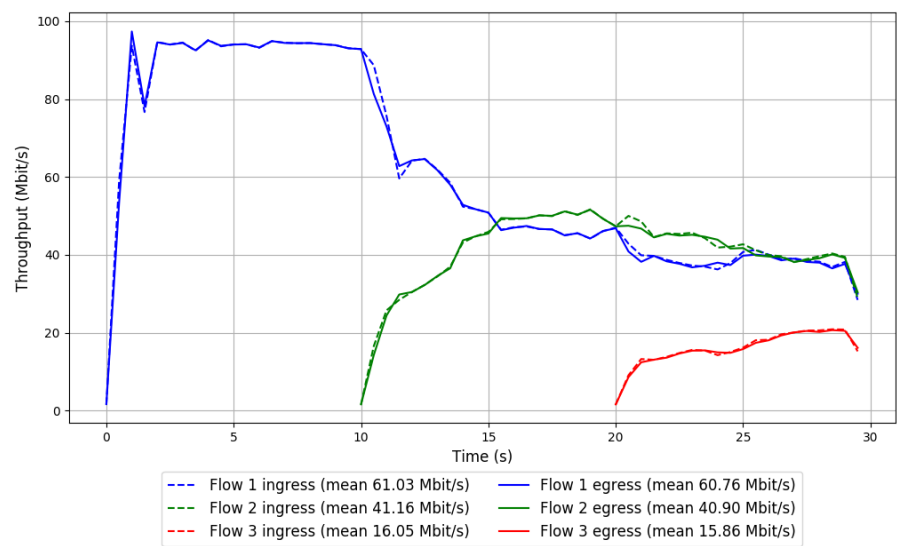


Run 6: Statistics of Vivace-LTE

Start at: 2018-02-04 22:39:07  
End at: 2018-02-04 22:39:37  
Local clock offset: -0.057 ms  
Remote clock offset: -7.702 ms

# Below is generated by plot.py at 2018-02-05 01:08:40  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.20 Mbit/s  
95th percentile per-packet one-way delay: 21.292 ms  
Loss rate: 0.44%  
-- Flow 1:  
Average throughput: 60.76 Mbit/s  
95th percentile per-packet one-way delay: 21.208 ms  
Loss rate: 0.38%  
-- Flow 2:  
Average throughput: 40.90 Mbit/s  
95th percentile per-packet one-way delay: 21.468 ms  
Loss rate: 0.50%  
-- Flow 3:  
Average throughput: 15.86 Mbit/s  
95th percentile per-packet one-way delay: 21.314 ms  
Loss rate: 0.90%

Run 6: Report of Vivace-LTE — Data Link



Run 7: Statistics of Vivace-LTE

Start at: 2018-02-04 22:59:43

End at: 2018-02-04 23:00:13

Local clock offset: -0.041 ms

Remote clock offset: 2.778 ms

# Below is generated by plot.py at 2018-02-05 01:09:02

# Datalink statistics

-- Total of 3 flows:

Average throughput: 90.78 Mbit/s

95th percentile per-packet one-way delay: 38.542 ms

Loss rate: 1.44%

-- Flow 1:

Average throughput: 58.23 Mbit/s

95th percentile per-packet one-way delay: 39.572 ms

Loss rate: 1.28%

-- Flow 2:

Average throughput: 37.81 Mbit/s

95th percentile per-packet one-way delay: 32.086 ms

Loss rate: 1.44%

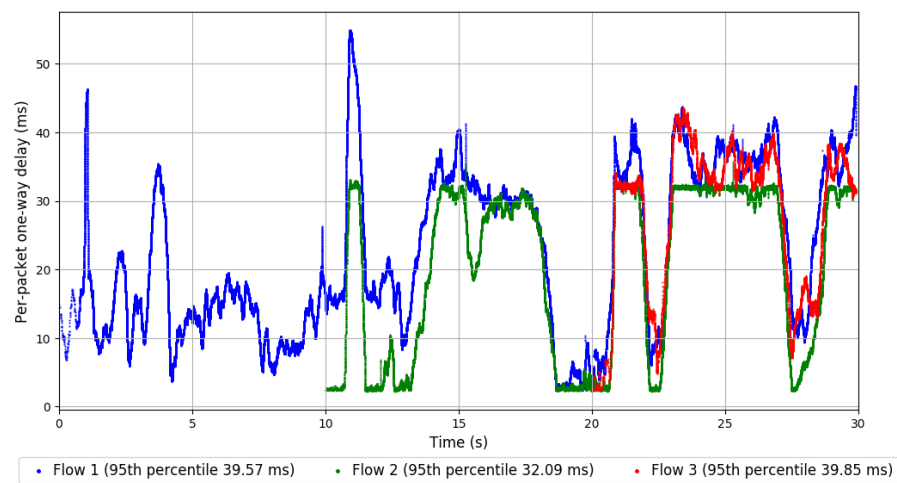
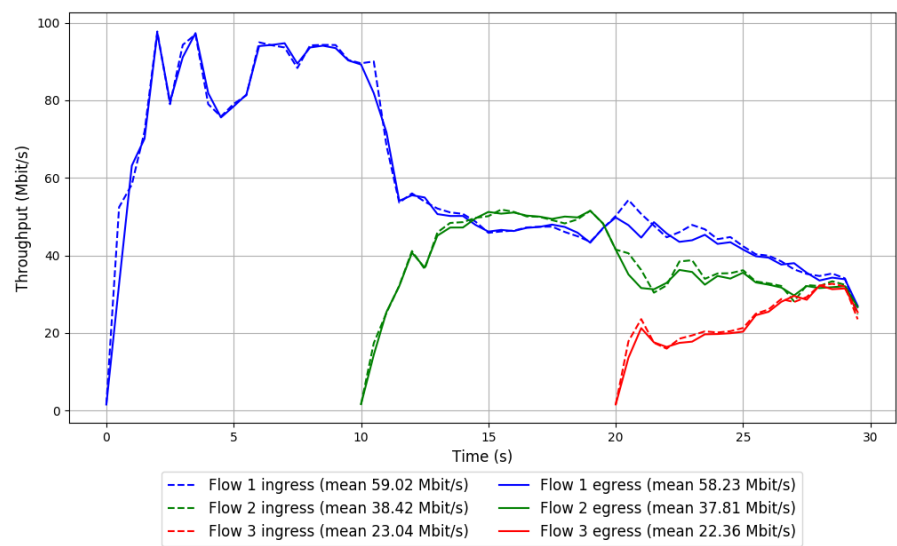
-- Flow 3:

Average throughput: 22.36 Mbit/s

95th percentile per-packet one-way delay: 39.854 ms

Loss rate: 2.69%

Run 7: Report of Vivace-LTE — Data Link



Run 8: Statistics of Vivace-LTE

Start at: 2018-02-04 23:20:20

End at: 2018-02-04 23:20:51

Local clock offset: -0.017 ms

Remote clock offset: 2.634 ms

# Below is generated by plot.py at 2018-02-05 01:09:03

# Datalink statistics

-- Total of 3 flows:

Average throughput: 93.33 Mbit/s

95th percentile per-packet one-way delay: 31.922 ms

Loss rate: 0.22%

-- Flow 1:

Average throughput: 62.18 Mbit/s

95th percentile per-packet one-way delay: 31.946 ms

Loss rate: 0.18%

-- Flow 2:

Average throughput: 38.23 Mbit/s

95th percentile per-packet one-way delay: 31.847 ms

Loss rate: 0.24%

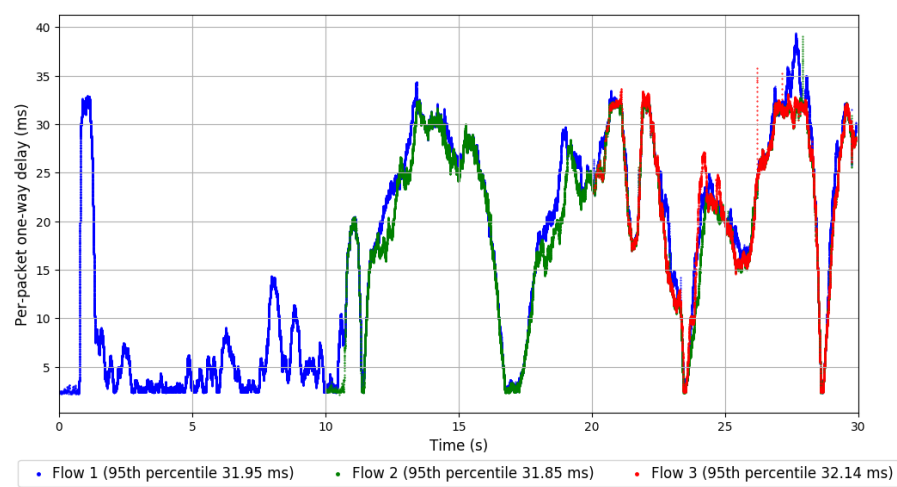
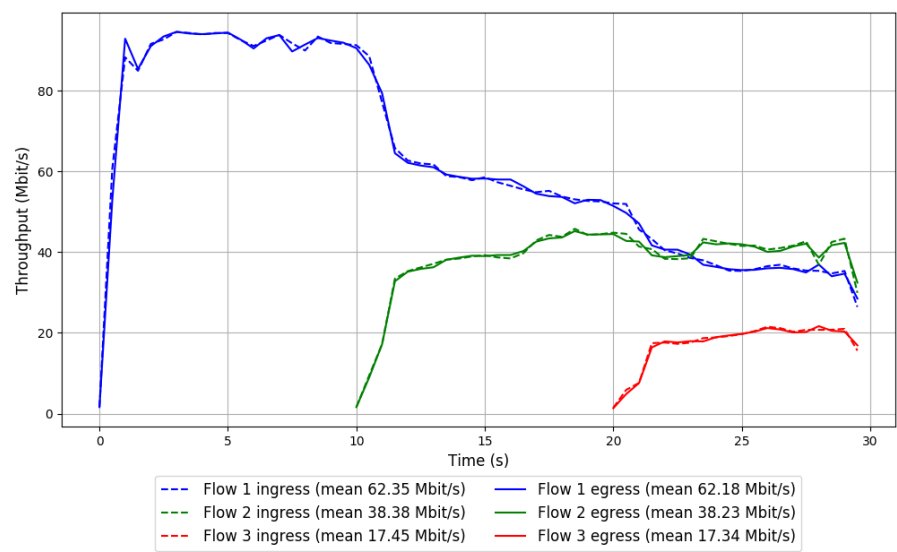
-- Flow 3:

Average throughput: 17.34 Mbit/s

95th percentile per-packet one-way delay: 32.144 ms

Loss rate: 0.58%

Run 8: Report of Vivace-LTE — Data Link



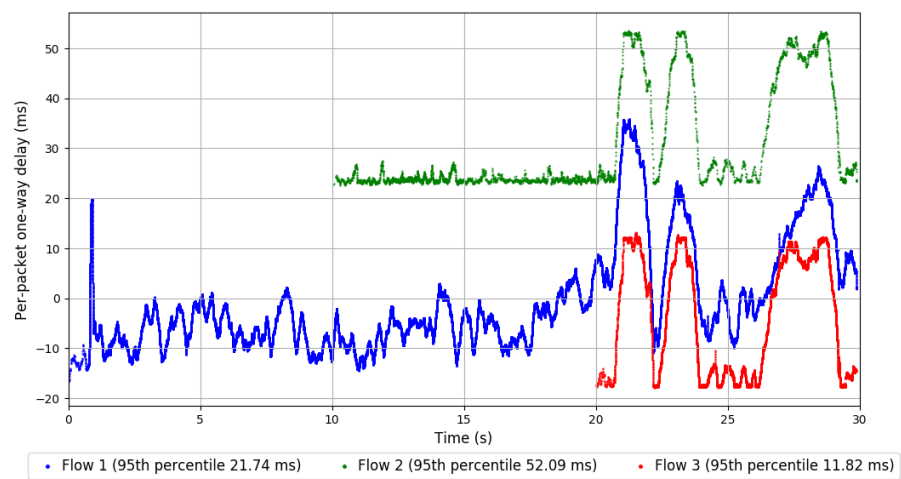
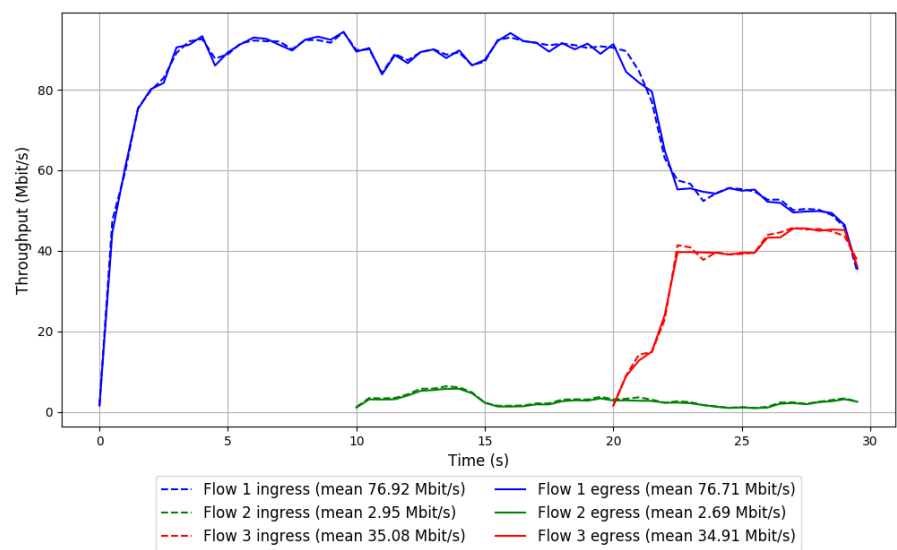
Run 9: Statistics of Vivace-LTE

Start at: 2018-02-04 23:41:05  
End at: 2018-02-04 23:41:35  
Local clock offset: -0.031 ms  
Remote clock offset: -17.402 ms

# Below is generated by plot.py at 2018-02-05 01:09:03  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 89.99 Mbit/s  
95th percentile per-packet one-way delay: 23.455 ms  
Loss rate: 0.43%  
-- Flow 1:  
Average throughput: 76.71 Mbit/s  
95th percentile per-packet one-way delay: 21.736 ms  
Loss rate: 0.22%  
-- Flow 2:  
Average throughput: 2.69 Mbit/s  
95th percentile per-packet one-way delay: 52.091 ms  
Loss rate: 8.73%  
-- Flow 3:  
Average throughput: 34.91 Mbit/s  
95th percentile per-packet one-way delay: 11.816 ms  
Loss rate: 0.45%



Run 9: Report of Vivace-LTE — Data Link



Run 10: Statistics of Vivace-LTE

Start at: 2018-02-05 00:01:56

End at: 2018-02-05 00:02:26

Local clock offset: -0.027 ms

Remote clock offset: 2.472 ms

# Below is generated by plot.py at 2018-02-05 01:09:04

# Datalink statistics

-- Total of 3 flows:

Average throughput: 91.67 Mbit/s

95th percentile per-packet one-way delay: 33.277 ms

Loss rate: 0.55%

-- Flow 1:

Average throughput: 76.20 Mbit/s

95th percentile per-packet one-way delay: 27.255 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 6.14 Mbit/s

95th percentile per-packet one-way delay: 69.603 ms

Loss rate: 8.65%

-- Flow 3:

Average throughput: 34.80 Mbit/s

95th percentile per-packet one-way delay: 32.057 ms

Loss rate: 0.24%

Run 10: Report of Vivace-LTE — Data Link

