

## Pantheon Report

Generated at 2018-03-21 09:40:38 (UTC).

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

Repeated the test of 17 congestion control schemes 10 times.

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

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

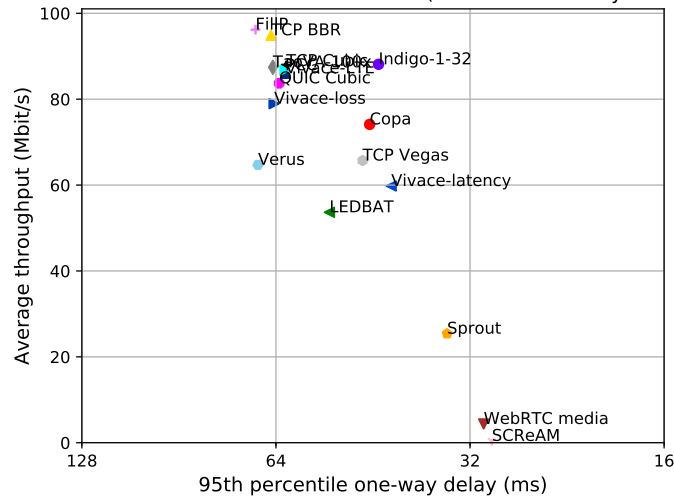
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo\_fast**).

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

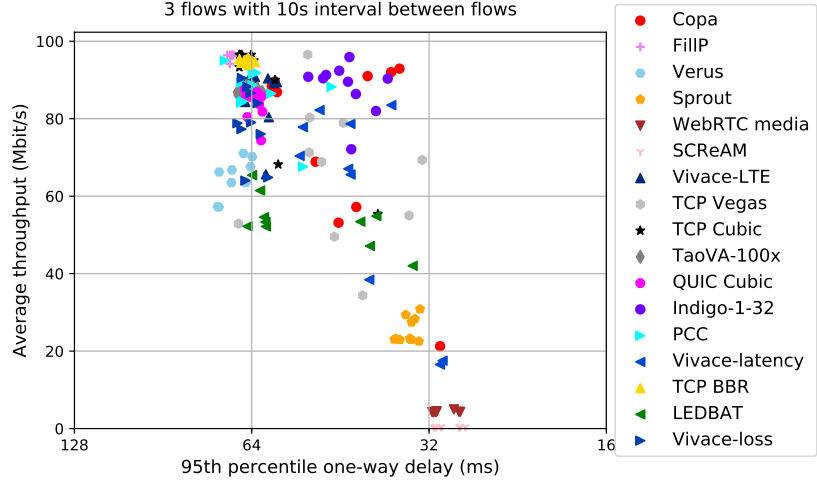
Git summary:

```
branch: master @ f12c42a2c63fdd9a862eefa0468859bf379b6623
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ 828bbf95fd4941149b5cec90f281d1c69ae1a5c6
third_party/genericCC @ 9249eea3238475c4d8cca1443d28df70bff6c4a2
third_party/indigo @ a9b2060d39e4da2e8987e893e3eca2a6c7cd0ab9
third_party/indigo-1-layer-128-unit @ 3ae9e4ef4230db7484501f82ce8b377695f2f66d
third_party/indigo-1-layer-32-unit @ 2601c92e4aa9d58d38dc4dfe0ecd90c077e64d
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 California 2 Ethernet to Mexico Ethernet, 10 runs of 30s each per scheme  
3 flows with 10s interval between flows (mean of all runs by scheme)



test from AWS California 2 Ethernet to Mexico 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     | 62.24                  | 32.59  | 33.03  | 63.92                     | 66.05  | 66.54  | 4.85               | 7.53   | 8.76   |
| TCP Cubic      | 10     | 59.04                  | 28.24  | 29.86  | 61.71                     | 60.50  | 60.00  | 0.71               | 0.73   | 0.93   |
| LEDBAT         | 10     | 31.99                  | 23.93  | 17.38  | 51.70                     | 53.88  | 48.28  | 0.20               | 0.25   | 0.17   |
| PCC            | 10     | 74.88                  | 13.96  | 7.79   | 60.87                     | 62.69  | 64.62  | 4.75               | 4.99   | 6.54   |
| QUIC Cubic     | 10     | 56.29                  | 31.34  | 20.10  | 63.47                     | 63.20  | 61.79  | 1.61               | 1.77   | 1.06   |
| SCReAM         | 10     | 0.21                   | 0.21   | 0.22   | 29.43                     | 29.45  | 29.18  | 0.00               | 0.04   | 0.04   |
| WebRTC media   | 10     | 2.33                   | 1.47   | 0.59   | 30.19                     | 30.43  | 30.47  | 0.02               | 0.03   | 0.01   |
| Sprout         | 10     | 12.79                  | 12.73  | 12.53  | 34.55                     | 34.74  | 35.08  | 0.07               | 0.07   | 0.04   |
| TaoVA-100x     | 10     | 52.00                  | 38.23  | 30.00  | 62.48                     | 65.57  | 66.29  | 12.84              | 23.32  | 18.44  |
| TCP Vegas      | 10     | 35.71                  | 27.61  | 35.03  | 44.38                     | 46.99  | 41.15  | 0.70               | 0.54   | 0.59   |
| Verus          | 10     | 38.59                  | 34.39  | 17.50  | 67.62                     | 68.76  | 65.79  | 37.31              | 45.21  | 37.18  |
| Copa           | 10     | 57.25                  | 18.81  | 13.14  | 46.18                     | 44.25  | 41.30  | 26.15              | 16.20  | 14.65  |
| FillP          | 10     | 50.39                  | 42.05  | 54.64  | 68.82                     | 68.81  | 69.01  | 27.96              | 33.70  | 37.68  |
| Indigo-1-32    | 10     | 55.20                  | 34.20  | 31.37  | 41.08                     | 46.09  | 51.32  | 0.52               | 0.89   | 1.05   |
| Vivace-latency | 10     | 41.13                  | 22.96  | 10.26  | 40.49                     | 43.45  | 45.38  | 0.11               | 0.21   | 0.16   |
| Vivace-loss    | 10     | 53.30                  | 30.69  | 16.11  | 63.62                     | 64.64  | 65.43  | 5.10               | 6.21   | 6.97   |
| Vivace-LTE     | 10     | 64.65                  | 25.18  | 14.10  | 61.20                     | 63.08  | 64.21  | 2.19               | 2.28   | 2.87   |

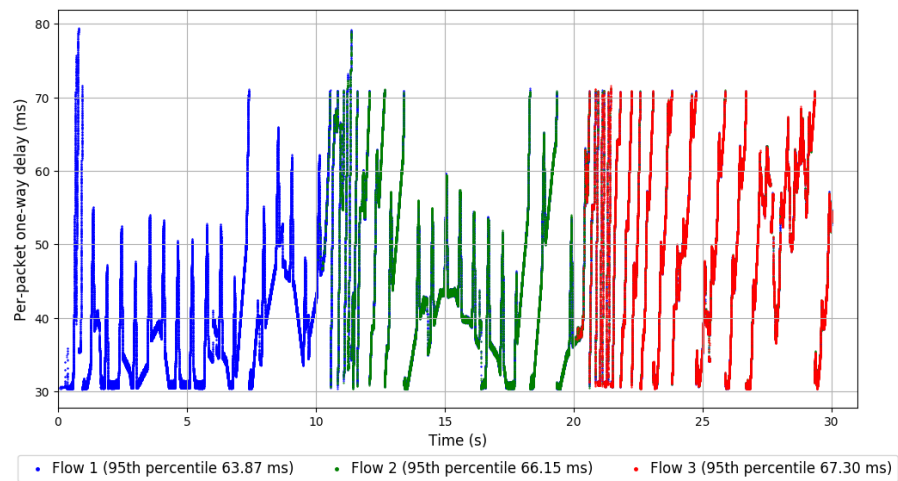
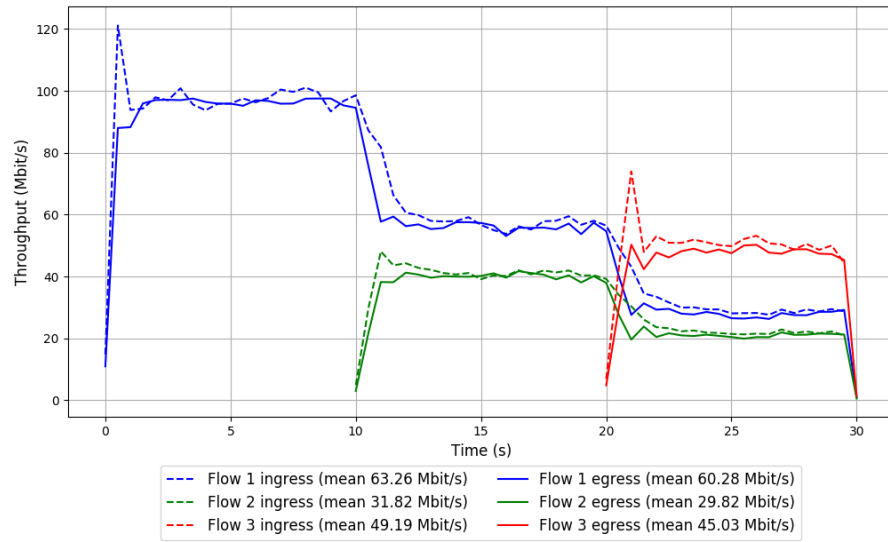
Run 1: Statistics of TCP BBR

Start at: 2018-03-21 04:20:20  
End at: 2018-03-21 04:20:50  
Local clock offset: 0.24 ms  
Remote clock offset: -2.239 ms

# Below is generated by plot.py at 2018-03-21 09:13:47  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.08 Mbit/s  
95th percentile per-packet one-way delay: 65.543 ms  
Loss rate: 5.58%  
-- Flow 1:  
Average throughput: 60.28 Mbit/s  
95th percentile per-packet one-way delay: 63.871 ms  
Loss rate: 4.65%  
-- Flow 2:  
Average throughput: 29.82 Mbit/s  
95th percentile per-packet one-way delay: 66.148 ms  
Loss rate: 6.26%  
-- Flow 3:  
Average throughput: 45.03 Mbit/s  
95th percentile per-packet one-way delay: 67.302 ms  
Loss rate: 8.31%



# Run 1: Report of TCP BBR — Data Link

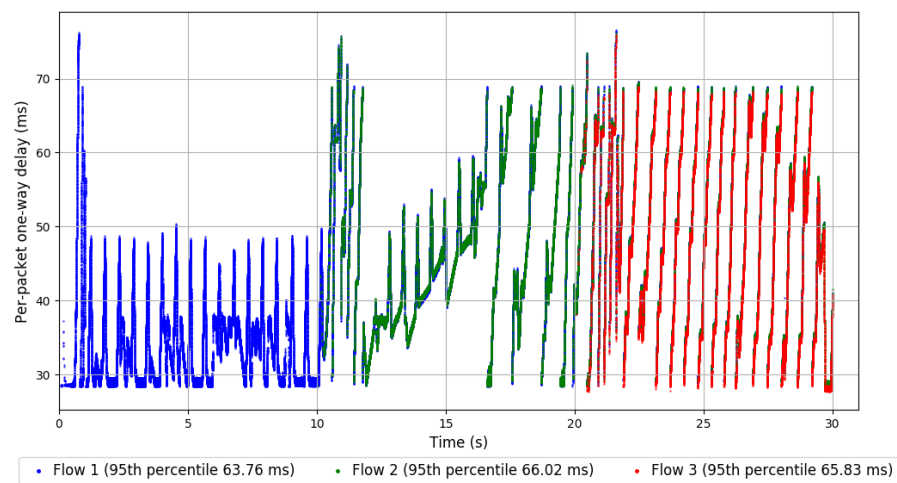
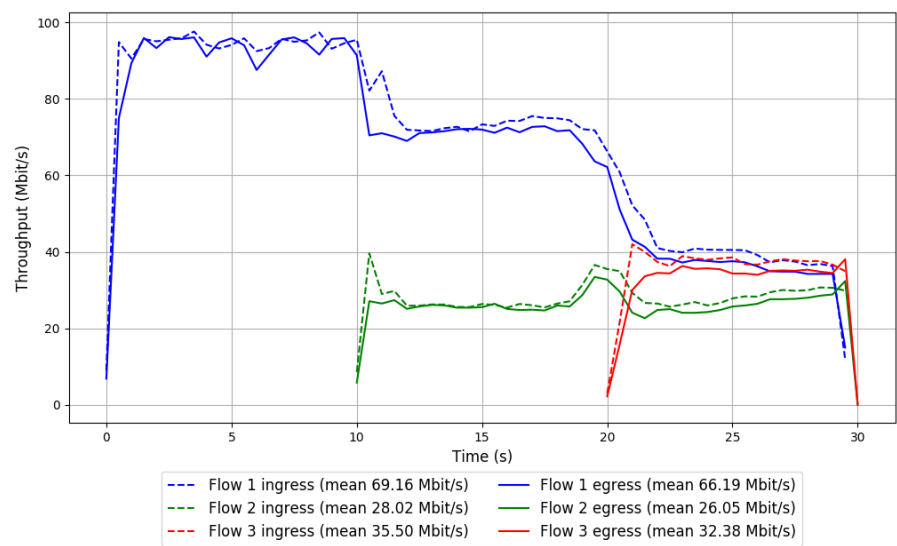


Run 2: Statistics of TCP BBR

Start at: 2018-03-21 04:50:07  
End at: 2018-03-21 04:50:37  
Local clock offset: -0.471 ms  
Remote clock offset: -2.629 ms

# Below is generated by plot.py at 2018-03-21 09:13:47  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.28 Mbit/s  
95th percentile per-packet one-way delay: 64.677 ms  
Loss rate: 5.30%  
-- Flow 1:  
Average throughput: 66.19 Mbit/s  
95th percentile per-packet one-way delay: 63.761 ms  
Loss rate: 4.25%  
-- Flow 2:  
Average throughput: 26.05 Mbit/s  
95th percentile per-packet one-way delay: 66.016 ms  
Loss rate: 7.00%  
-- Flow 3:  
Average throughput: 32.38 Mbit/s  
95th percentile per-packet one-way delay: 65.826 ms  
Loss rate: 8.74%

Run 2: Report of TCP BBR — Data Link

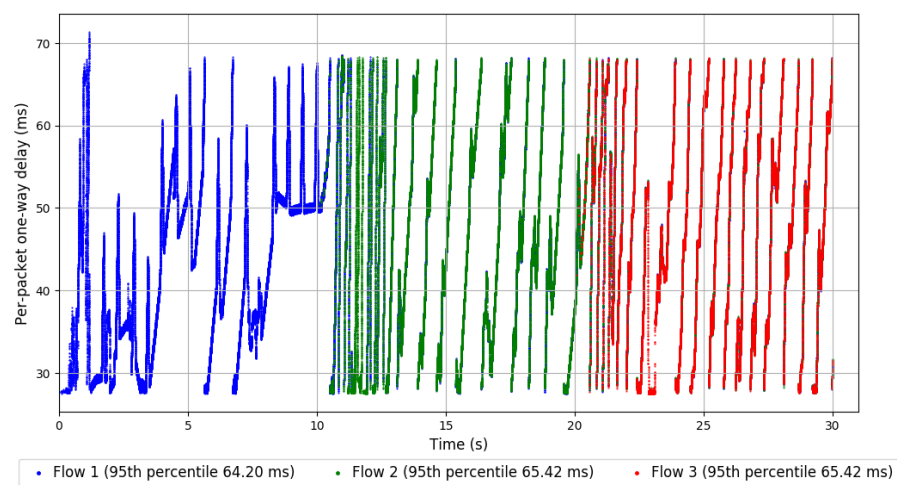
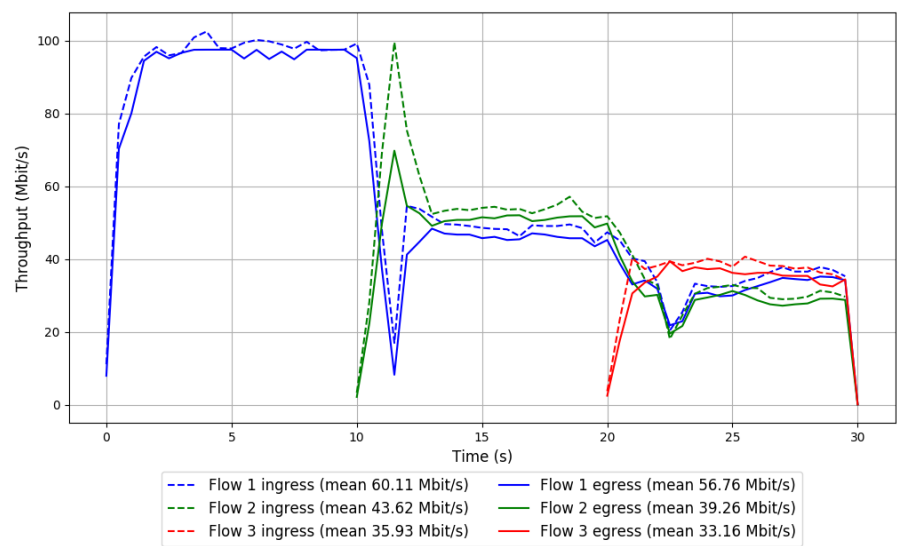


Run 3: Statistics of TCP BBR

Start at: 2018-03-21 05:20:16  
End at: 2018-03-21 05:20:46  
Local clock offset: -0.173 ms  
Remote clock offset: -2.418 ms

# Below is generated by plot.py at 2018-03-21 09:13:47  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.87 Mbit/s  
95th percentile per-packet one-way delay: 64.830 ms  
Loss rate: 7.13%  
-- Flow 1:  
Average throughput: 56.76 Mbit/s  
95th percentile per-packet one-way delay: 64.197 ms  
Loss rate: 5.57%  
-- Flow 2:  
Average throughput: 39.26 Mbit/s  
95th percentile per-packet one-way delay: 65.415 ms  
Loss rate: 10.09%  
-- Flow 3:  
Average throughput: 33.16 Mbit/s  
95th percentile per-packet one-way delay: 65.425 ms  
Loss rate: 7.81%

Run 3: Report of TCP BBR — Data Link

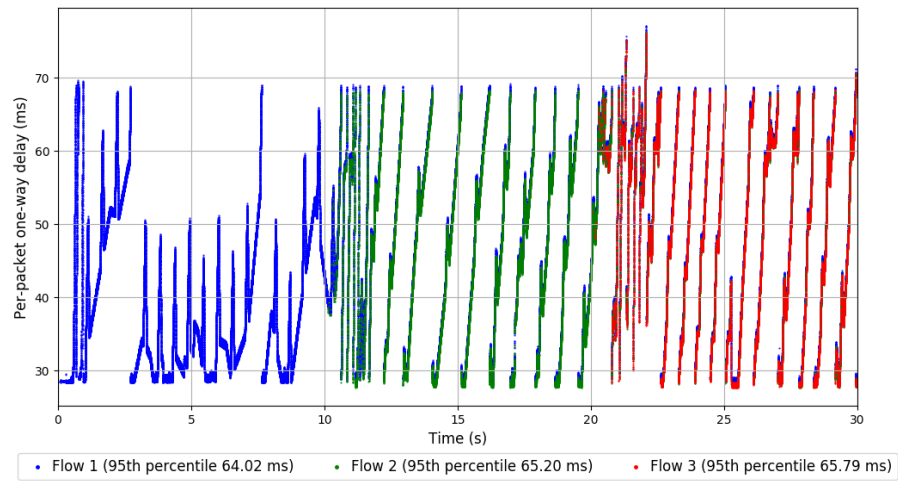
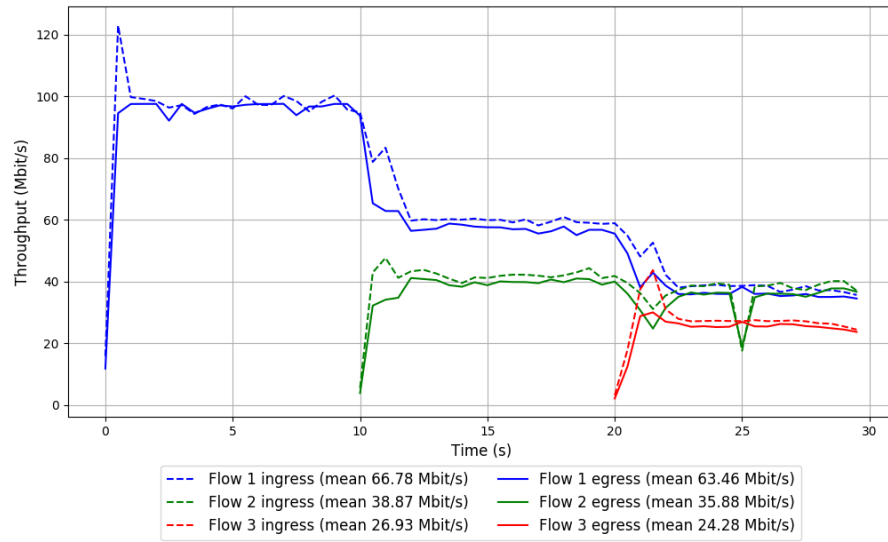


Run 4: Statistics of TCP BBR

Start at: 2018-03-21 05:48:57  
End at: 2018-03-21 05:49:27  
Local clock offset: -0.26 ms  
Remote clock offset: -3.242 ms

# Below is generated by plot.py at 2018-03-21 09:13:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.37 Mbit/s  
95th percentile per-packet one-way delay: 64.686 ms  
Loss rate: 6.13%  
-- Flow 1:  
Average throughput: 63.46 Mbit/s  
95th percentile per-packet one-way delay: 64.019 ms  
Loss rate: 4.98%  
-- Flow 2:  
Average throughput: 35.88 Mbit/s  
95th percentile per-packet one-way delay: 65.201 ms  
Loss rate: 7.76%  
-- Flow 3:  
Average throughput: 24.28 Mbit/s  
95th percentile per-packet one-way delay: 65.791 ms  
Loss rate: 10.05%

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



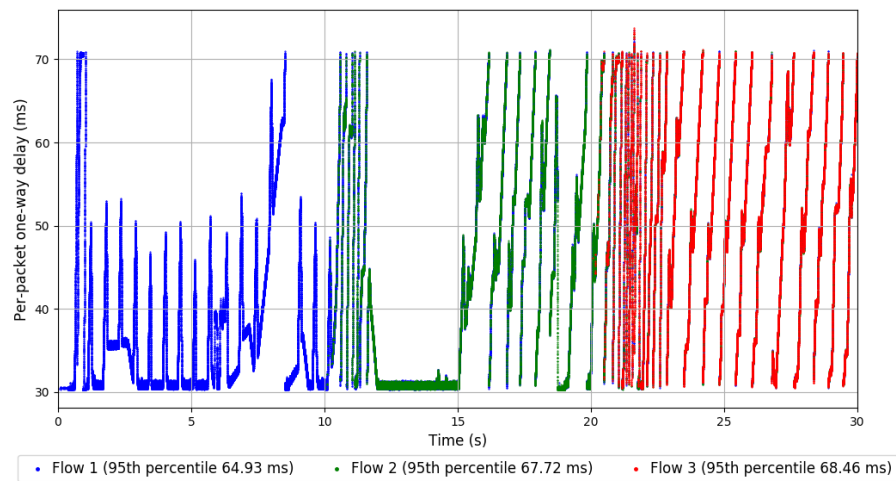
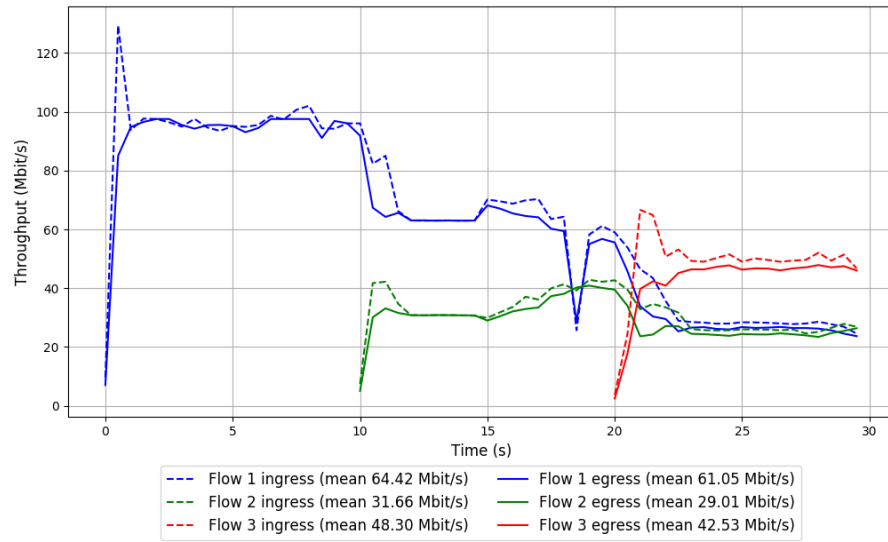
Run 5: Statistics of TCP BBR

Start at: 2018-03-21 06:18:17  
End at: 2018-03-21 06:18:47  
Local clock offset: -0.204 ms  
Remote clock offset: -2.358 ms

# Below is generated by plot.py at 2018-03-21 09:13:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.46 Mbit/s  
95th percentile per-packet one-way delay: 66.694 ms  
Loss rate: 6.95%  
-- Flow 1:  
Average throughput: 61.05 Mbit/s  
95th percentile per-packet one-way delay: 64.931 ms  
Loss rate: 5.22%  
-- Flow 2:  
Average throughput: 29.01 Mbit/s  
95th percentile per-packet one-way delay: 67.721 ms  
Loss rate: 8.37%  
-- Flow 3:  
Average throughput: 42.53 Mbit/s  
95th percentile per-packet one-way delay: 68.464 ms  
Loss rate: 12.06%



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

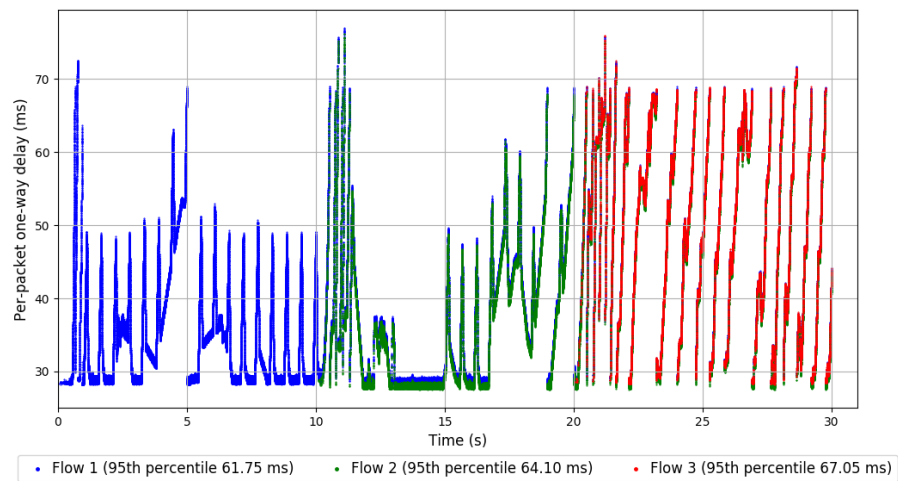
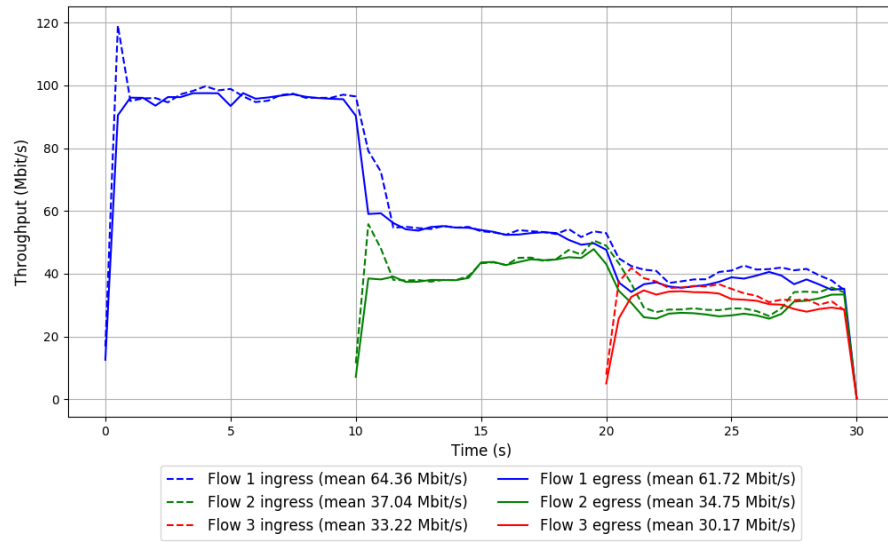


Run 6: Statistics of TCP BBR

Start at: 2018-03-21 06:45:32  
End at: 2018-03-21 06:46:02  
Local clock offset: -0.223 ms  
Remote clock offset: -3.292 ms

# Below is generated by plot.py at 2018-03-21 09:13:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.89 Mbit/s  
95th percentile per-packet one-way delay: 63.790 ms  
Loss rate: 5.12%  
-- Flow 1:  
Average throughput: 61.72 Mbit/s  
95th percentile per-packet one-way delay: 61.751 ms  
Loss rate: 4.05%  
-- Flow 2:  
Average throughput: 34.75 Mbit/s  
95th percentile per-packet one-way delay: 64.097 ms  
Loss rate: 6.15%  
-- Flow 3:  
Average throughput: 30.17 Mbit/s  
95th percentile per-packet one-way delay: 67.053 ms  
Loss rate: 9.04%

# Run 6: Report of TCP BBR — Data Link

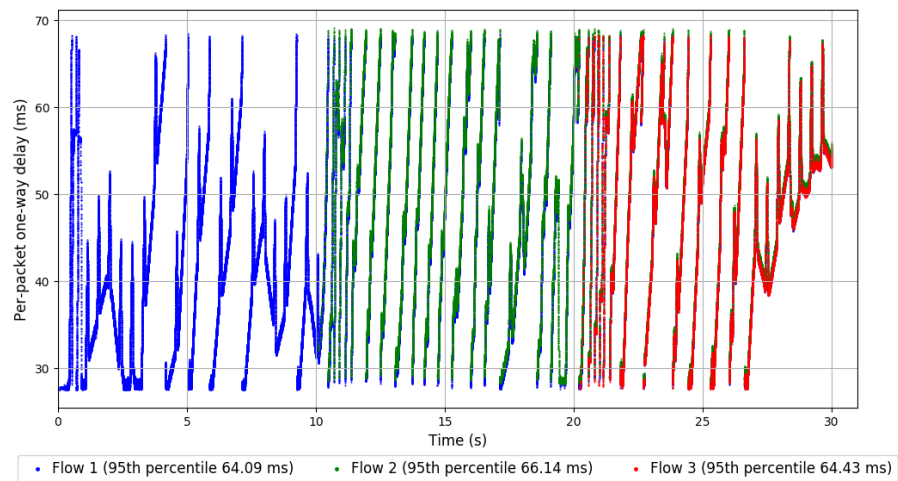
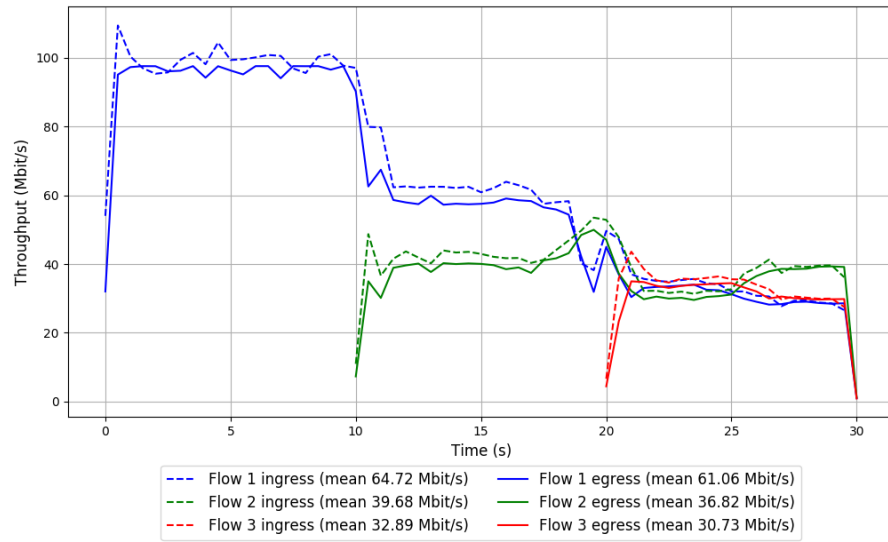


Run 7: Statistics of TCP BBR

Start at: 2018-03-21 07:13:29  
End at: 2018-03-21 07:13:59  
Local clock offset: -0.096 ms  
Remote clock offset: -3.517 ms

# Below is generated by plot.py at 2018-03-21 09:13:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.75 Mbit/s  
95th percentile per-packet one-way delay: 64.849 ms  
Loss rate: 6.09%  
-- Flow 1:  
Average throughput: 61.06 Mbit/s  
95th percentile per-packet one-way delay: 64.090 ms  
Loss rate: 5.56%  
-- Flow 2:  
Average throughput: 36.82 Mbit/s  
95th percentile per-packet one-way delay: 66.144 ms  
Loss rate: 7.14%  
-- Flow 3:  
Average throughput: 30.73 Mbit/s  
95th percentile per-packet one-way delay: 64.430 ms  
Loss rate: 6.63%

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



Run 8: Statistics of TCP BBR

Start at: 2018-03-21 07:40:06

End at: 2018-03-21 07:40:36

Local clock offset: -0.556 ms

Remote clock offset: -2.05 ms

# Below is generated by plot.py at 2018-03-21 09:13:49

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.41 Mbit/s

95th percentile per-packet one-way delay: 67.139 ms

Loss rate: 6.34%

-- Flow 1:

Average throughput: 62.85 Mbit/s

95th percentile per-packet one-way delay: 66.395 ms

Loss rate: 5.30%

-- Flow 2:

Average throughput: 33.60 Mbit/s

95th percentile per-packet one-way delay: 67.911 ms

Loss rate: 8.26%

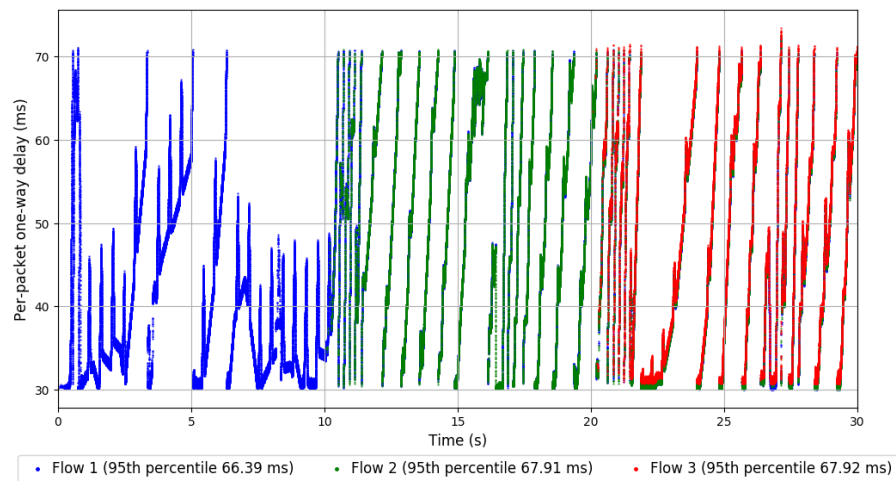
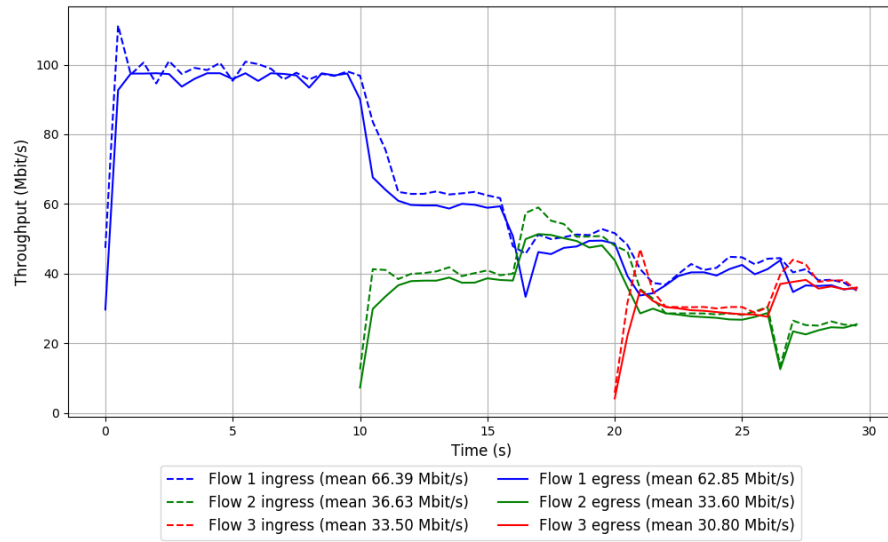
-- Flow 3:

Average throughput: 30.80 Mbit/s

95th percentile per-packet one-way delay: 67.915 ms

Loss rate: 8.29%

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



Run 9: Statistics of TCP BBR

Start at: 2018-03-21 08:07:33

End at: 2018-03-21 08:08:03

Local clock offset: -0.511 ms

Remote clock offset: 1.325 ms

# Below is generated by plot.py at 2018-03-21 09:15:11

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.12 Mbit/s

95th percentile per-packet one-way delay: 65.865 ms

Loss rate: 6.38%

-- Flow 1:

Average throughput: 66.79 Mbit/s

95th percentile per-packet one-way delay: 64.627 ms

Loss rate: 5.36%

-- Flow 2:

Average throughput: 30.05 Mbit/s

95th percentile per-packet one-way delay: 67.406 ms

Loss rate: 8.44%

-- Flow 3:

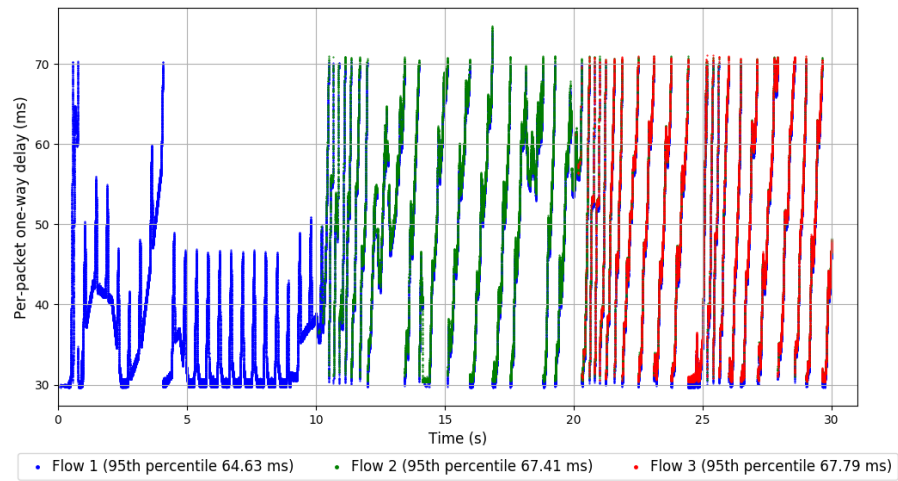
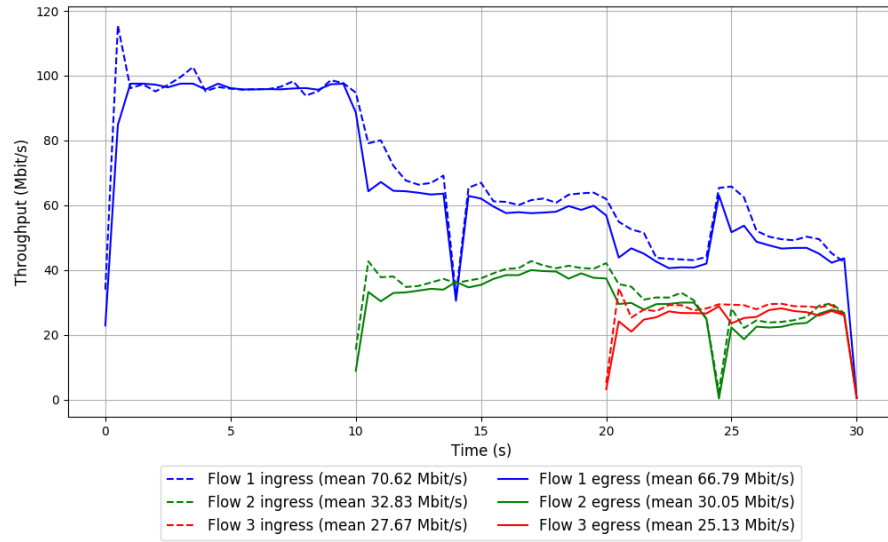
Average throughput: 25.13 Mbit/s

95th percentile per-packet one-way delay: 67.788 ms

Loss rate: 9.31%



# Run 9: Report of TCP BBR — Data Link

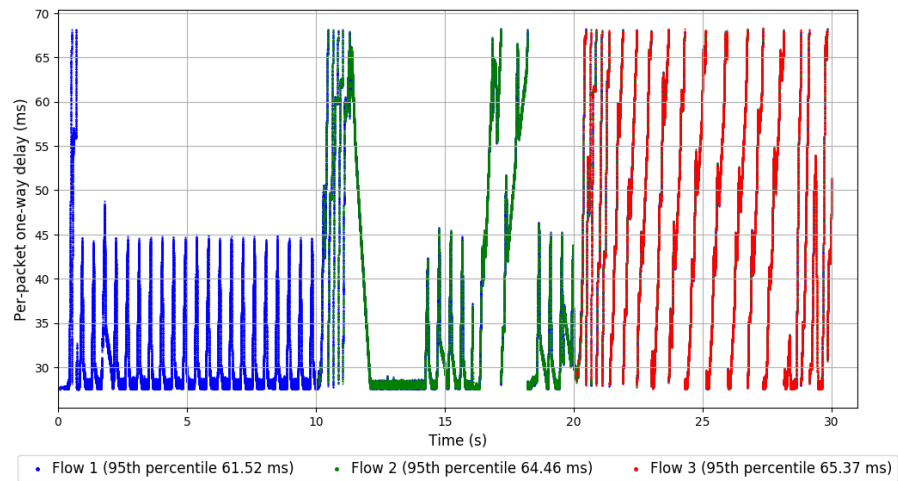
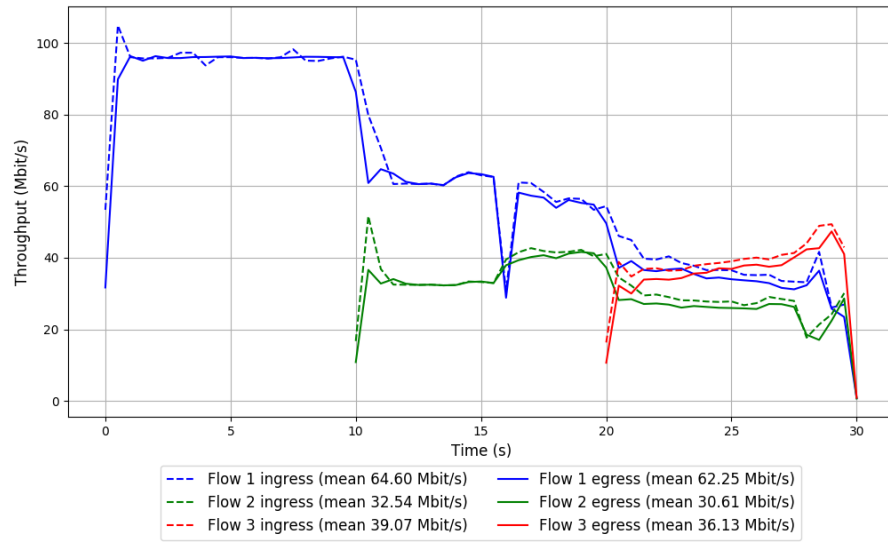


Run 10: Statistics of TCP BBR

Start at: 2018-03-21 08:33:17  
End at: 2018-03-21 08:33:47  
Local clock offset: -0.484 ms  
Remote clock offset: -2.642 ms

# Below is generated by plot.py at 2018-03-21 09:15:13  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.65 Mbit/s  
95th percentile per-packet one-way delay: 63.214 ms  
Loss rate: 4.55%  
-- Flow 1:  
Average throughput: 62.25 Mbit/s  
95th percentile per-packet one-way delay: 61.516 ms  
Loss rate: 3.56%  
-- Flow 2:  
Average throughput: 30.61 Mbit/s  
95th percentile per-packet one-way delay: 64.462 ms  
Loss rate: 5.83%  
-- Flow 3:  
Average throughput: 36.13 Mbit/s  
95th percentile per-packet one-way delay: 65.373 ms  
Loss rate: 7.32%

# Run 10: Report of TCP BBR — Data Link

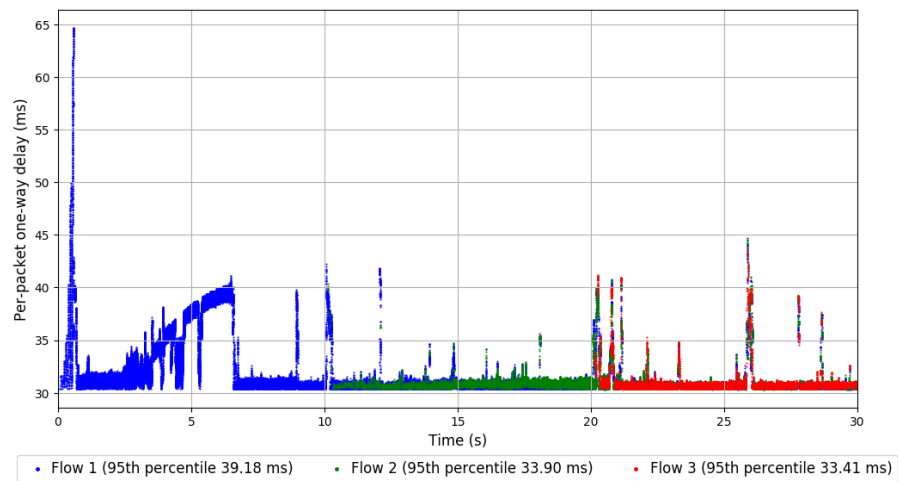
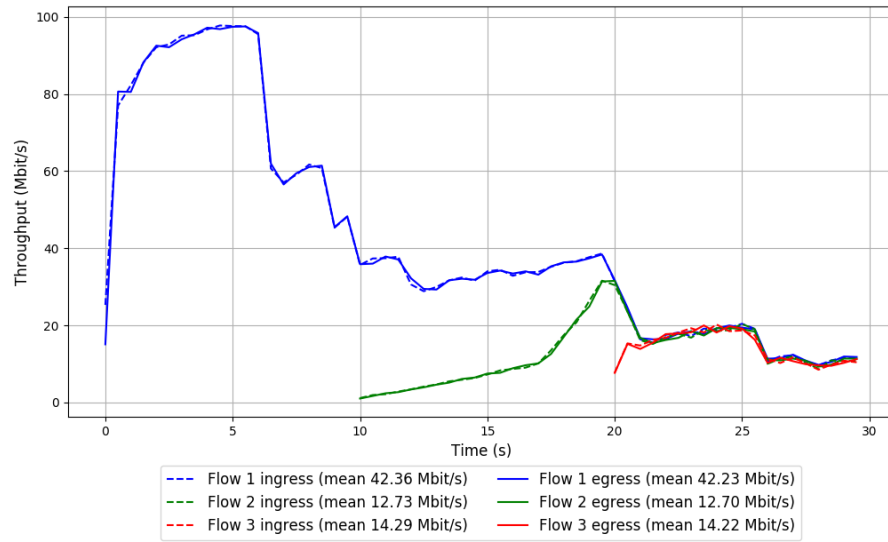


Run 1: Statistics of TCP Cubic

Start at: 2018-03-21 04:01:31  
End at: 2018-03-21 04:02:01  
Local clock offset: 0.058 ms  
Remote clock offset: -3.669 ms

# Below is generated by plot.py at 2018-03-21 09:15:13  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 55.39 Mbit/s  
95th percentile per-packet one-way delay: 39.085 ms  
Loss rate: 0.34%  
-- Flow 1:  
Average throughput: 42.23 Mbit/s  
95th percentile per-packet one-way delay: 39.176 ms  
Loss rate: 0.33%  
-- Flow 2:  
Average throughput: 12.70 Mbit/s  
95th percentile per-packet one-way delay: 33.900 ms  
Loss rate: 0.31%  
-- Flow 3:  
Average throughput: 14.22 Mbit/s  
95th percentile per-packet one-way delay: 33.413 ms  
Loss rate: 0.48%

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

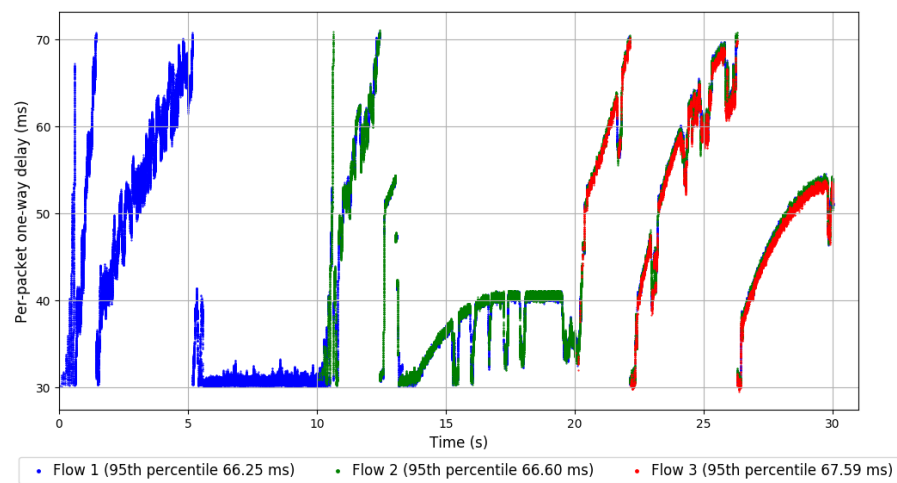
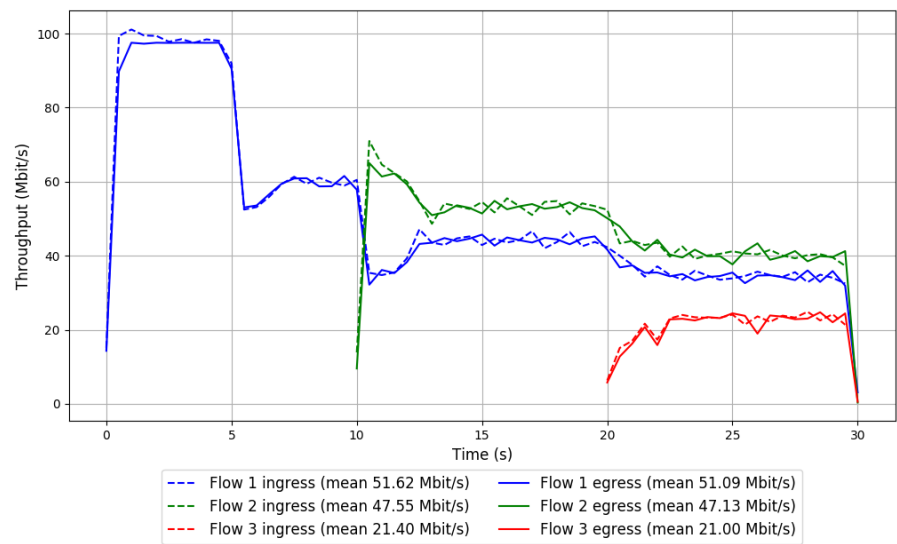


Run 2: Statistics of TCP Cubic

Start at: 2018-03-21 04:34:09  
End at: 2018-03-21 04:34:39  
Local clock offset: -0.045 ms  
Remote clock offset: -1.515 ms

# Below is generated by plot.py at 2018-03-21 09:15:13  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 89.46 Mbit/s  
95th percentile per-packet one-way delay: 66.514 ms  
Loss rate: 0.96%  
-- Flow 1:  
Average throughput: 51.09 Mbit/s  
95th percentile per-packet one-way delay: 66.255 ms  
Loss rate: 0.96%  
-- Flow 2:  
Average throughput: 47.13 Mbit/s  
95th percentile per-packet one-way delay: 66.599 ms  
Loss rate: 0.79%  
-- Flow 3:  
Average throughput: 21.00 Mbit/s  
95th percentile per-packet one-way delay: 67.588 ms  
Loss rate: 1.69%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-03-21 05:01:57

End at: 2018-03-21 05:02:27

Local clock offset: -0.576 ms

Remote clock offset: -3.21 ms

# Below is generated by plot.py at 2018-03-21 09:15:13

# Datalink statistics

-- Total of 3 flows:

Average throughput: 90.02 Mbit/s

95th percentile per-packet one-way delay: 58.414 ms

Loss rate: 0.63%

-- Flow 1:

Average throughput: 55.63 Mbit/s

95th percentile per-packet one-way delay: 59.046 ms

Loss rate: 0.57%

-- Flow 2:

Average throughput: 23.15 Mbit/s

95th percentile per-packet one-way delay: 58.384 ms

Loss rate: 1.34%

-- Flow 3:

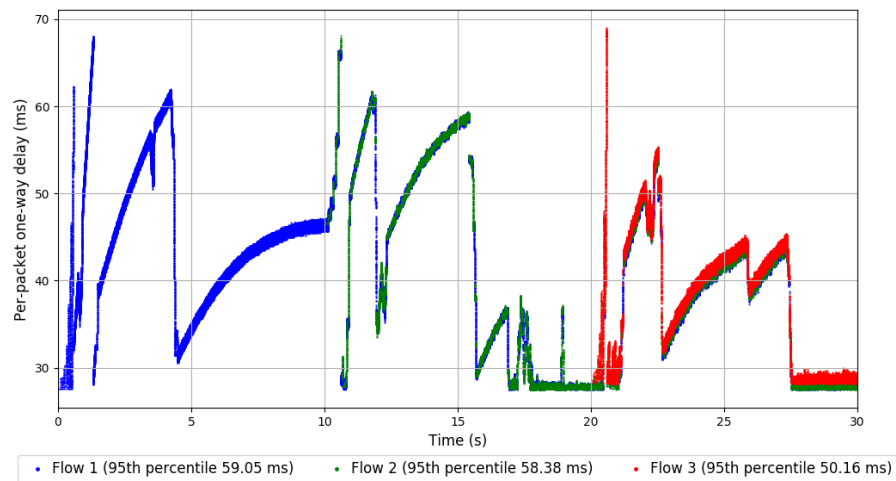
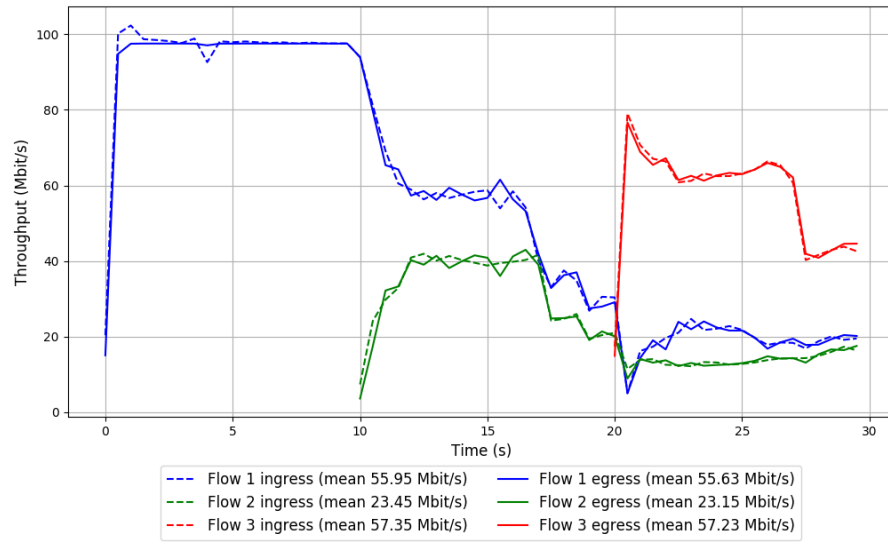
Average throughput: 57.23 Mbit/s

95th percentile per-packet one-way delay: 50.165 ms

Loss rate: 0.22%



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

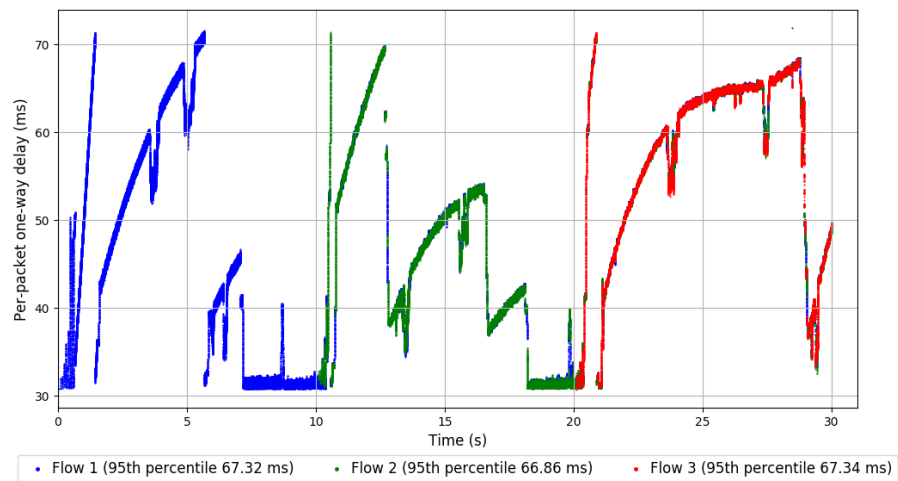
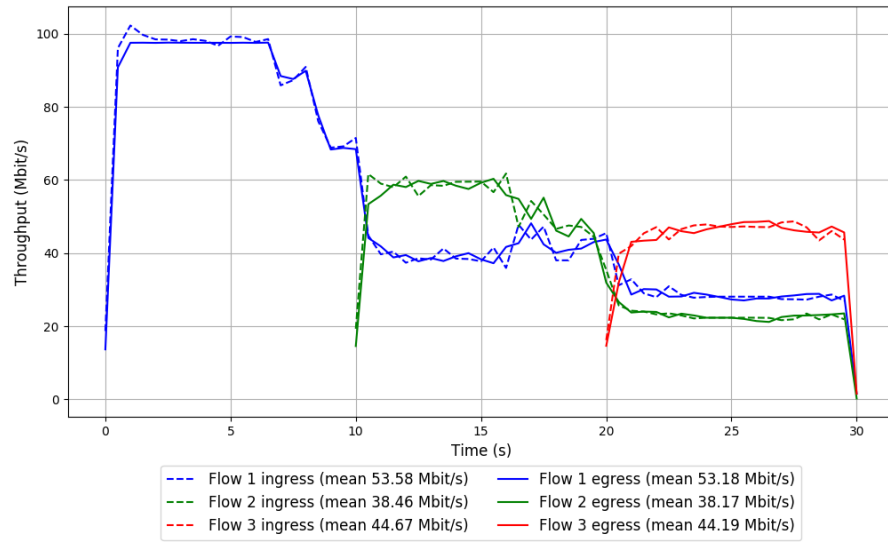


Run 4: Statistics of TCP Cubic

Start at: 2018-03-21 05:32:16  
End at: 2018-03-21 05:32:46  
Local clock offset: -0.108 ms  
Remote clock offset: -0.698 ms

# Below is generated by plot.py at 2018-03-21 09:15:13  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.28 Mbit/s  
95th percentile per-packet one-way delay: 67.177 ms  
Loss rate: 0.73%  
-- Flow 1:  
Average throughput: 53.18 Mbit/s  
95th percentile per-packet one-way delay: 67.320 ms  
Loss rate: 0.69%  
-- Flow 2:  
Average throughput: 38.17 Mbit/s  
95th percentile per-packet one-way delay: 66.864 ms  
Loss rate: 0.74%  
-- Flow 3:  
Average throughput: 44.19 Mbit/s  
95th percentile per-packet one-way delay: 67.340 ms  
Loss rate: 0.88%

# Run 4: Report of TCP Cubic — Data Link

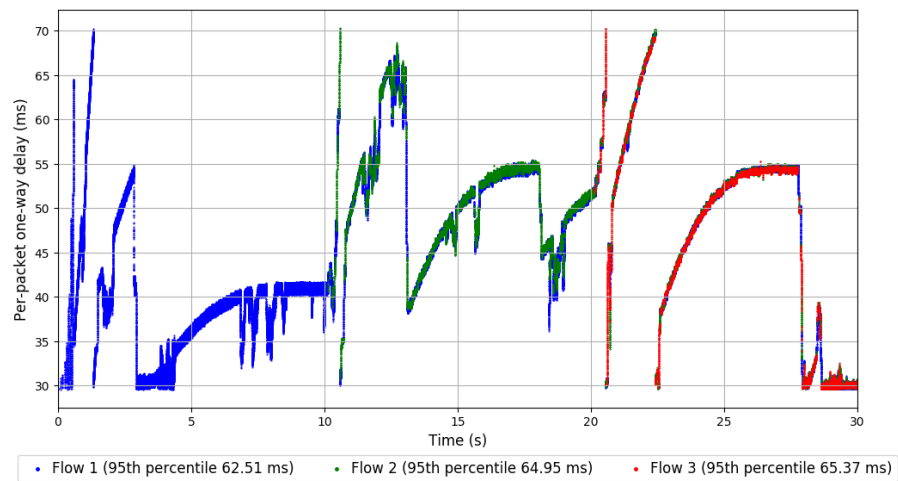
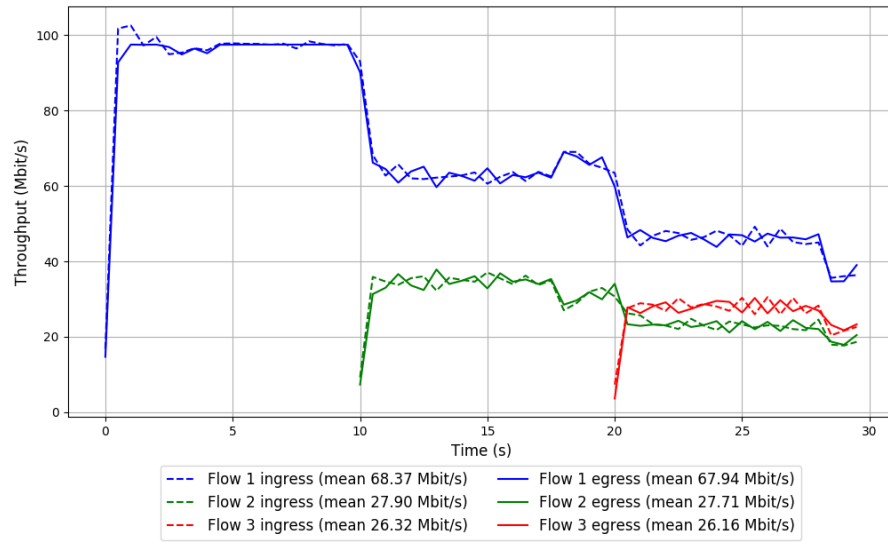


Run 5: Statistics of TCP Cubic

Start at: 2018-03-21 06:02:37  
End at: 2018-03-21 06:03:07  
Local clock offset: -0.164 ms  
Remote clock offset: -1.729 ms

# Below is generated by plot.py at 2018-03-21 09:15:14  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.02 Mbit/s  
95th percentile per-packet one-way delay: 63.488 ms  
Loss rate: 0.68%  
-- Flow 1:  
Average throughput: 67.94 Mbit/s  
95th percentile per-packet one-way delay: 62.509 ms  
Loss rate: 0.63%  
-- Flow 2:  
Average throughput: 27.71 Mbit/s  
95th percentile per-packet one-way delay: 64.953 ms  
Loss rate: 0.78%  
-- Flow 3:  
Average throughput: 26.16 Mbit/s  
95th percentile per-packet one-way delay: 65.369 ms  
Loss rate: 0.82%

# Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-03-21 06:30:47

End at: 2018-03-21 06:31:17

Local clock offset: -0.324 ms

Remote clock offset: -4.4 ms

# Below is generated by plot.py at 2018-03-21 09:15:14

# Datalink statistics

-- Total of 3 flows:

Average throughput: 68.20 Mbit/s

95th percentile per-packet one-way delay: 57.703 ms

Loss rate: 0.95%

-- Flow 1:

Average throughput: 29.60 Mbit/s

95th percentile per-packet one-way delay: 58.740 ms

Loss rate: 0.99%

-- Flow 2:

Average throughput: 35.53 Mbit/s

95th percentile per-packet one-way delay: 53.725 ms

Loss rate: 0.38%

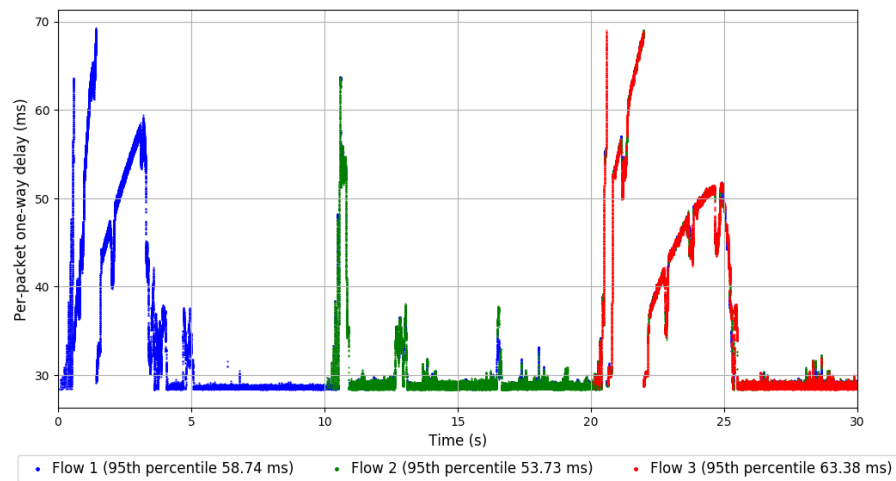
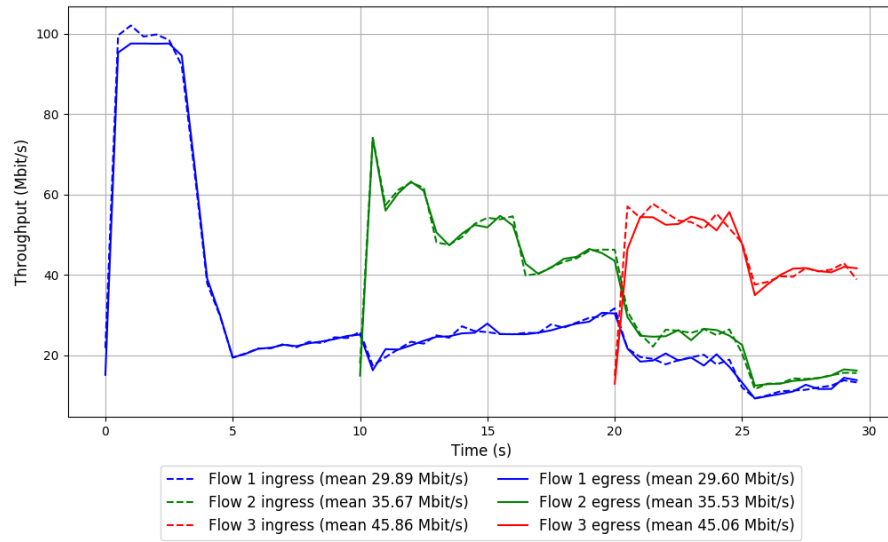
-- Flow 3:

Average throughput: 45.06 Mbit/s

95th percentile per-packet one-way delay: 63.375 ms

Loss rate: 1.77%

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



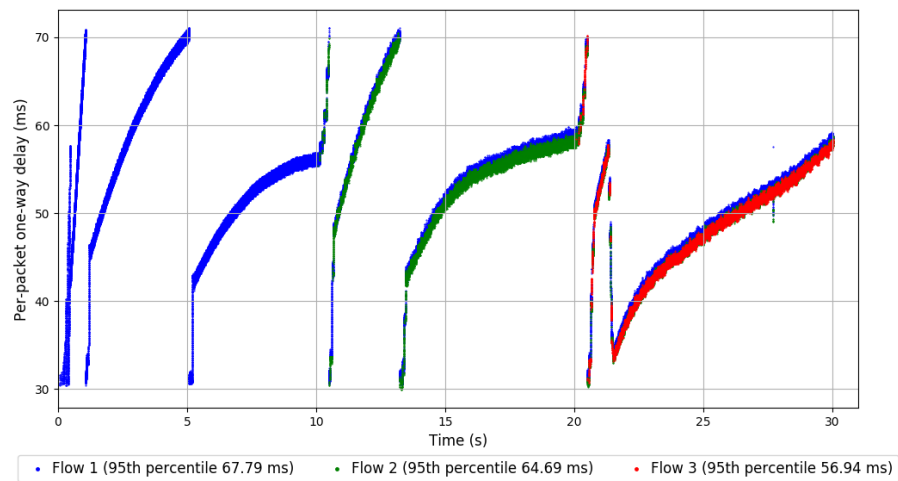
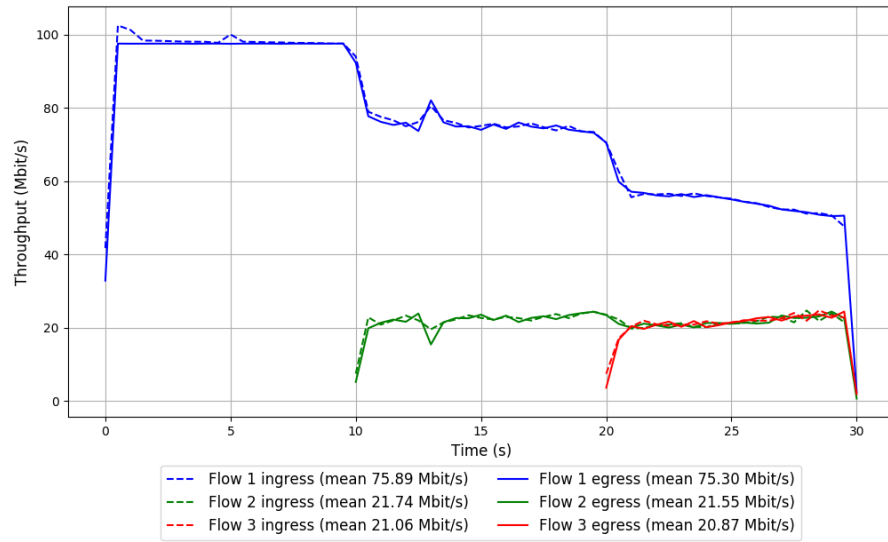
Run 7: Statistics of TCP Cubic

Start at: 2018-03-21 06:58:52  
End at: 2018-03-21 06:59:22  
Local clock offset: -0.216 ms  
Remote clock offset: -0.848 ms

# Below is generated by plot.py at 2018-03-21 09:16:04  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.54 Mbit/s  
95th percentile per-packet one-way delay: 67.175 ms  
Loss rate: 0.76%  
-- Flow 1:  
Average throughput: 75.30 Mbit/s  
95th percentile per-packet one-way delay: 67.794 ms  
Loss rate: 0.72%  
-- Flow 2:  
Average throughput: 21.55 Mbit/s  
95th percentile per-packet one-way delay: 64.695 ms  
Loss rate: 0.87%  
-- Flow 3:  
Average throughput: 20.87 Mbit/s  
95th percentile per-packet one-way delay: 56.935 ms  
Loss rate: 0.92%



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

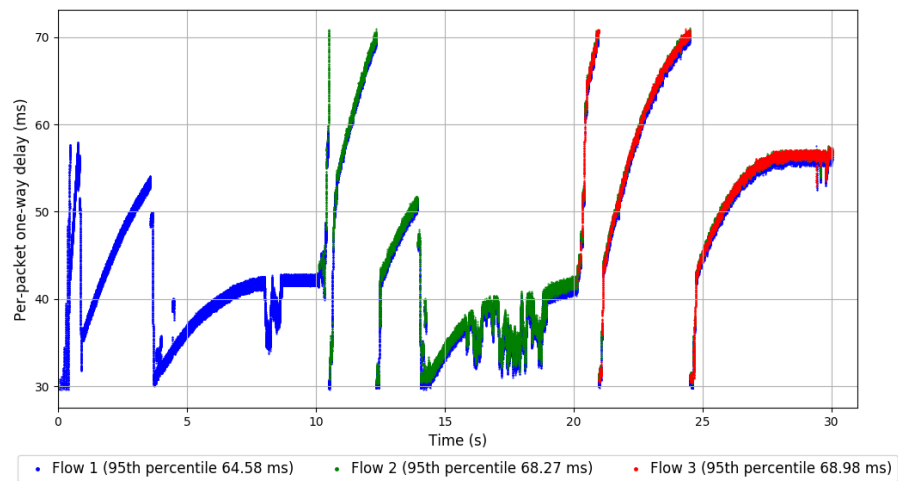
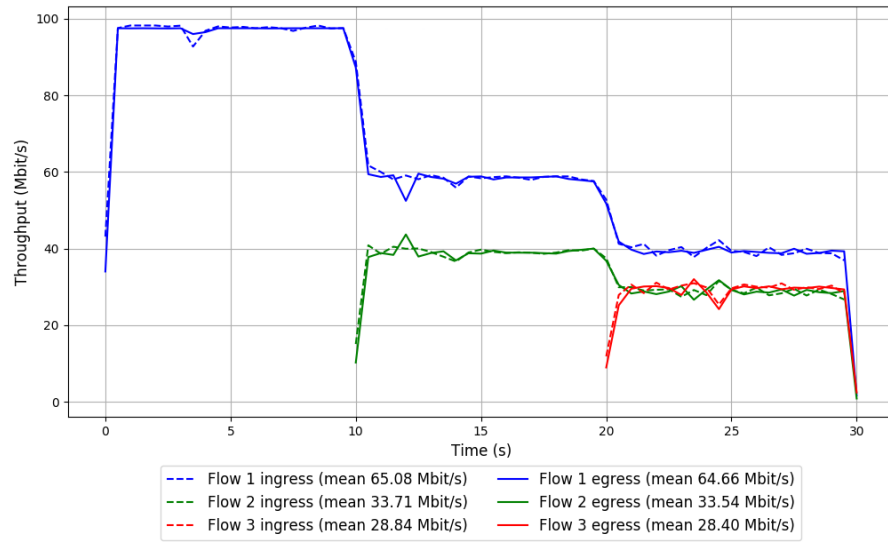


Run 8: Statistics of TCP Cubic

Start at: 2018-03-21 07:25:14  
End at: 2018-03-21 07:25:44  
Local clock offset: -0.218 ms  
Remote clock offset: -1.995 ms

# Below is generated by plot.py at 2018-03-21 09:16:21  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.41 Mbit/s  
95th percentile per-packet one-way delay: 66.852 ms  
Loss rate: 0.63%  
-- Flow 1:  
Average throughput: 64.66 Mbit/s  
95th percentile per-packet one-way delay: 64.583 ms  
Loss rate: 0.56%  
-- Flow 2:  
Average throughput: 33.54 Mbit/s  
95th percentile per-packet one-way delay: 68.269 ms  
Loss rate: 0.51%  
-- Flow 3:  
Average throughput: 28.40 Mbit/s  
95th percentile per-packet one-way delay: 68.983 ms  
Loss rate: 1.37%

# Run 8: Report of TCP Cubic — Data Link

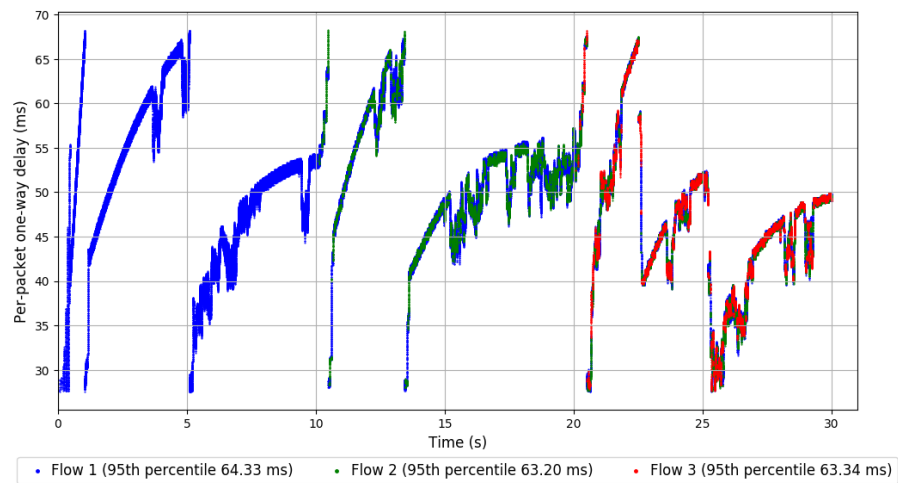
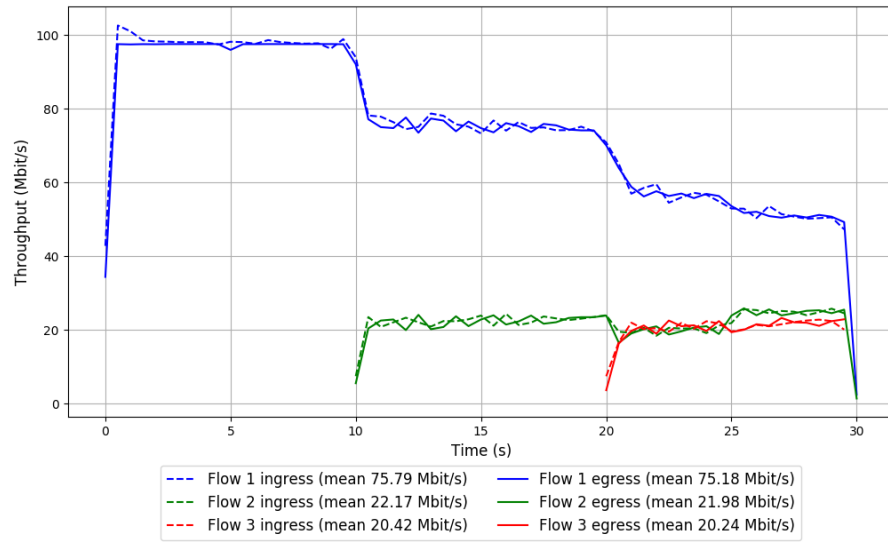


Run 9: Statistics of TCP Cubic

Start at: 2018-03-21 07:52:29  
End at: 2018-03-21 07:52:59  
Local clock offset: -0.623 ms  
Remote clock offset: -1.907 ms

# Below is generated by plot.py at 2018-03-21 09:16:37  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.51 Mbit/s  
95th percentile per-packet one-way delay: 64.133 ms  
Loss rate: 0.76%  
-- Flow 1:  
Average throughput: 75.18 Mbit/s  
95th percentile per-packet one-way delay: 64.329 ms  
Loss rate: 0.73%  
-- Flow 2:  
Average throughput: 21.98 Mbit/s  
95th percentile per-packet one-way delay: 63.204 ms  
Loss rate: 0.88%  
-- Flow 3:  
Average throughput: 20.24 Mbit/s  
95th percentile per-packet one-way delay: 63.345 ms  
Loss rate: 0.91%

# Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-03-21 08:19:01

End at: 2018-03-21 08:19:31

Local clock offset: -0.545 ms

Remote clock offset: 0.575 ms

# Below is generated by plot.py at 2018-03-21 09:16:38

# Datalink statistics

-- Total of 3 flows:

Average throughput: 96.47 Mbit/s

95th percentile per-packet one-way delay: 66.580 ms

Loss rate: 0.83%

-- Flow 1:

Average throughput: 75.58 Mbit/s

95th percentile per-packet one-way delay: 67.350 ms

Loss rate: 0.92%

-- Flow 2:

Average throughput: 20.90 Mbit/s

95th percentile per-packet one-way delay: 64.455 ms

Loss rate: 0.65%

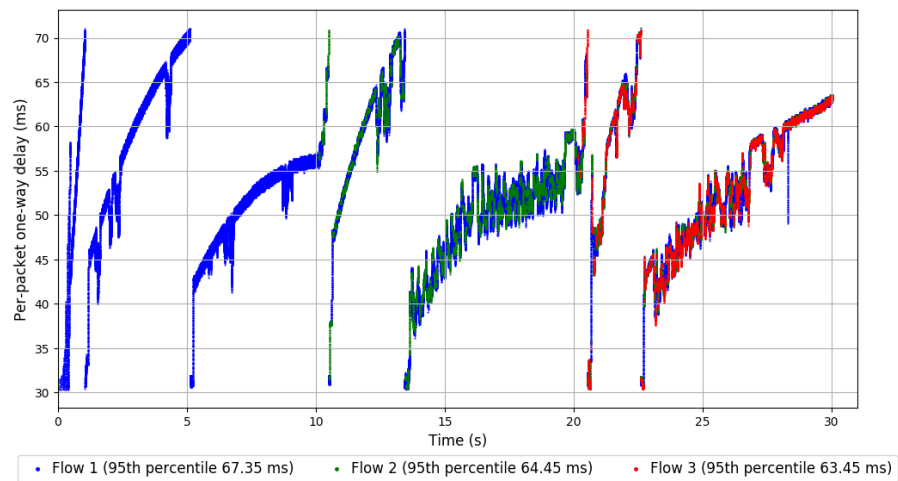
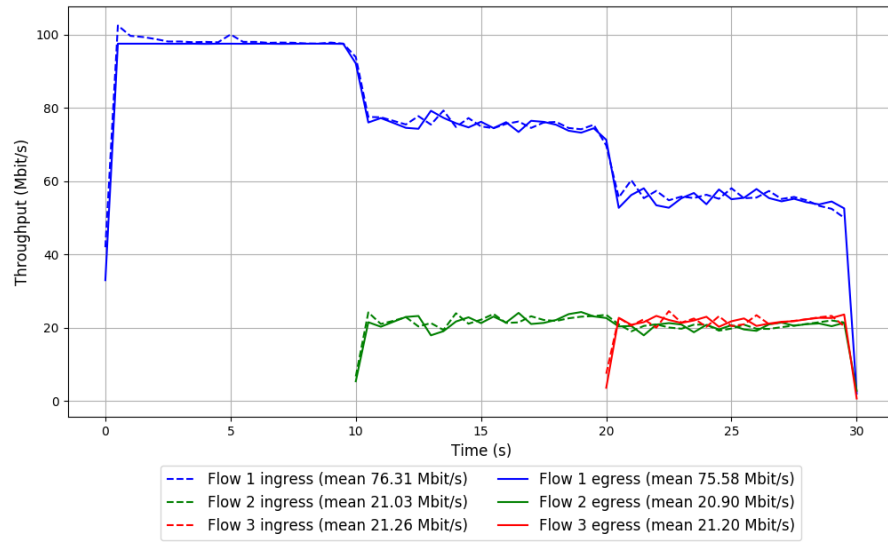
-- Flow 3:

Average throughput: 21.20 Mbit/s

95th percentile per-packet one-way delay: 63.455 ms

Loss rate: 0.23%

# Run 10: Report of TCP Cubic — Data Link



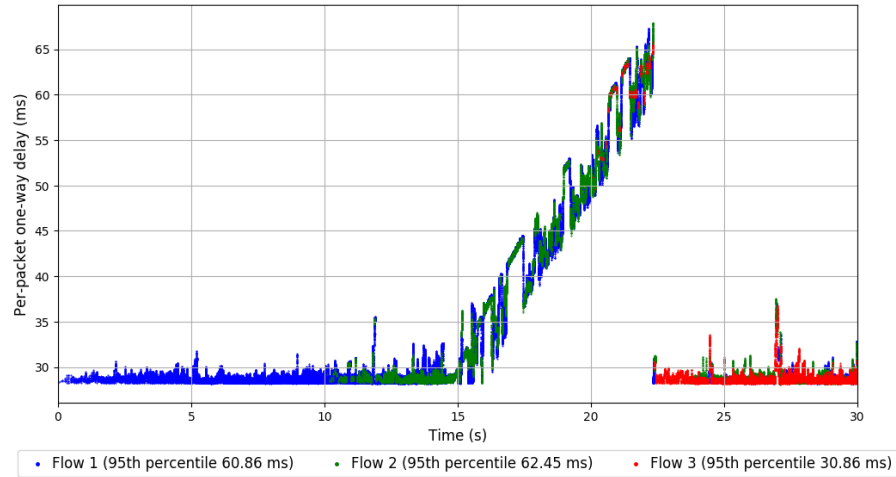
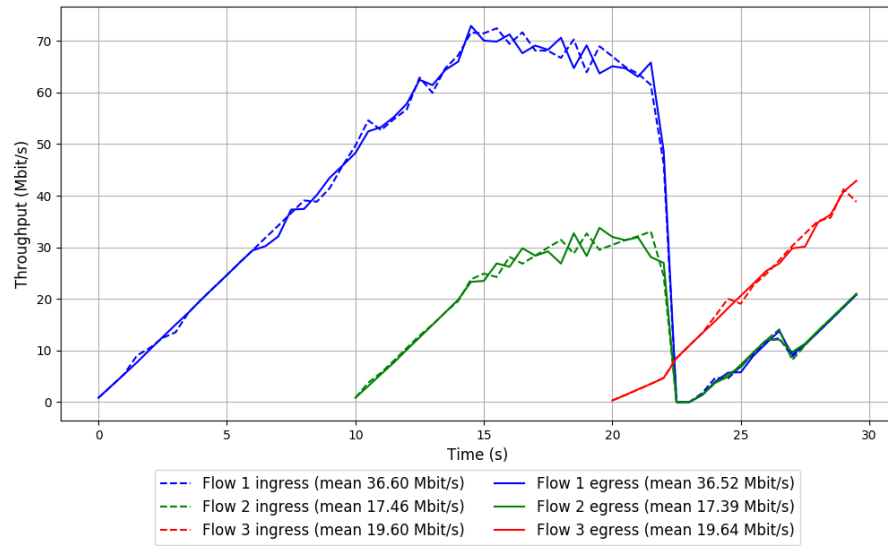
```
Run 1: Statistics of LEDBAT

Start at: 2018-03-21 04:16:59
End at: 2018-03-21 04:17:29
Local clock offset: 0.236 ms
Remote clock offset: -4.564 ms

# Below is generated by plot.py at 2018-03-21 09:16:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 54.58 Mbit/s
95th percentile per-packet one-way delay: 60.994 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 36.52 Mbit/s
95th percentile per-packet one-way delay: 60.856 ms
Loss rate: 0.21%
-- Flow 2:
Average throughput: 17.39 Mbit/s
95th percentile per-packet one-way delay: 62.453 ms
Loss rate: 0.39%
-- Flow 3:
Average throughput: 19.64 Mbit/s
95th percentile per-packet one-way delay: 30.857 ms
Loss rate: 0.02%
```



## Run 1: Report of LEDBAT — Data Link

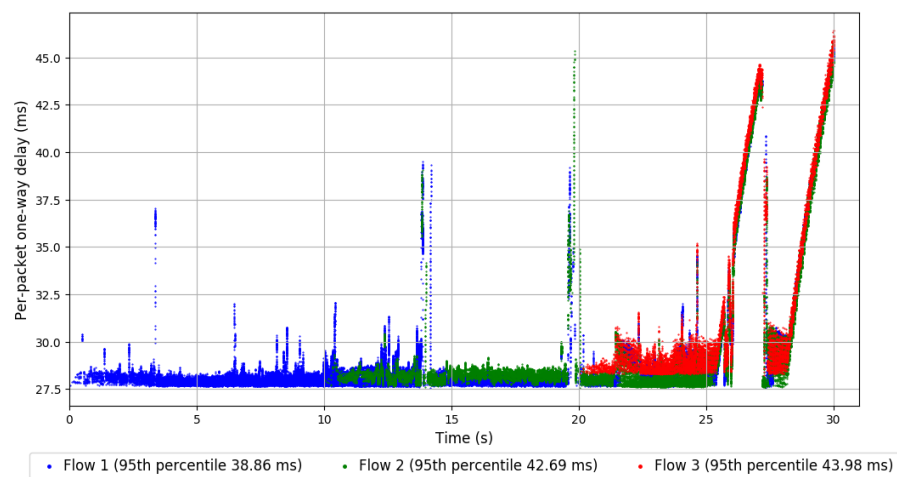
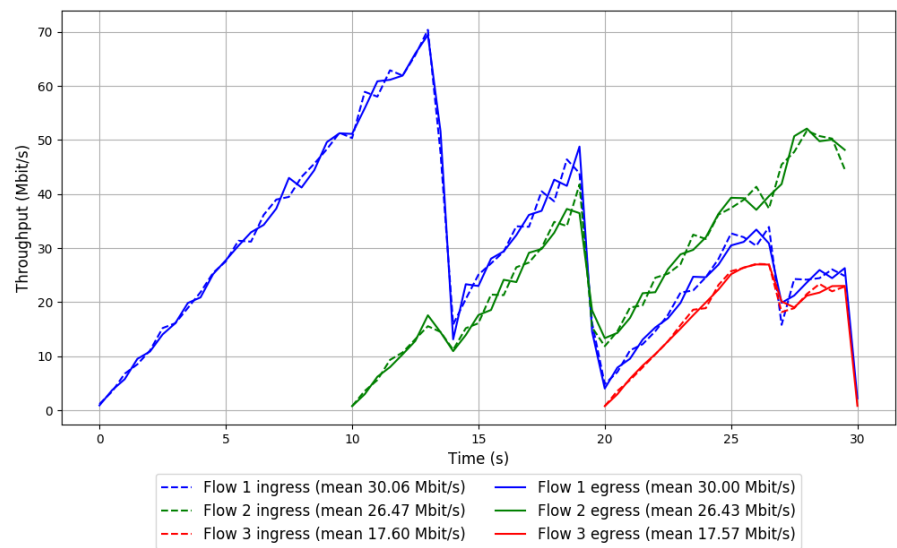


Run 2: Statistics of LEDBAT

Start at: 2018-03-21 04:47:03  
End at: 2018-03-21 04:47:33  
Local clock offset: -0.517 ms  
Remote clock offset: -2.761 ms

# Below is generated by plot.py at 2018-03-21 09:16:38  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 53.43 Mbit/s  
95th percentile per-packet one-way delay: 41.866 ms  
Loss rate: 0.10%  
-- Flow 1:  
Average throughput: 30.00 Mbit/s  
95th percentile per-packet one-way delay: 38.862 ms  
Loss rate: 0.13%  
-- Flow 2:  
Average throughput: 26.43 Mbit/s  
95th percentile per-packet one-way delay: 42.691 ms  
Loss rate: 0.06%  
-- Flow 3:  
Average throughput: 17.57 Mbit/s  
95th percentile per-packet one-way delay: 43.979 ms  
Loss rate: 0.02%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-03-21 05:16:37

End at: 2018-03-21 05:17:07

Local clock offset: -0.227 ms

Remote clock offset: -2.67 ms

# Below is generated by plot.py at 2018-03-21 09:16:38

# Datalink statistics

-- Total of 3 flows:

Average throughput: 53.32 Mbit/s

95th percentile per-packet one-way delay: 60.673 ms

Loss rate: 0.30%

-- Flow 1:

Average throughput: 37.12 Mbit/s

95th percentile per-packet one-way delay: 60.209 ms

Loss rate: 0.29%

-- Flow 2:

Average throughput: 16.94 Mbit/s

95th percentile per-packet one-way delay: 62.479 ms

Loss rate: 0.39%

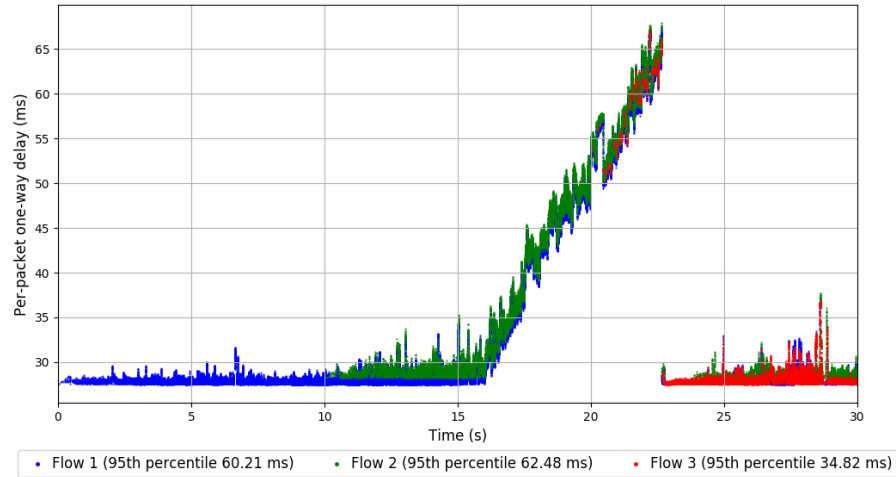
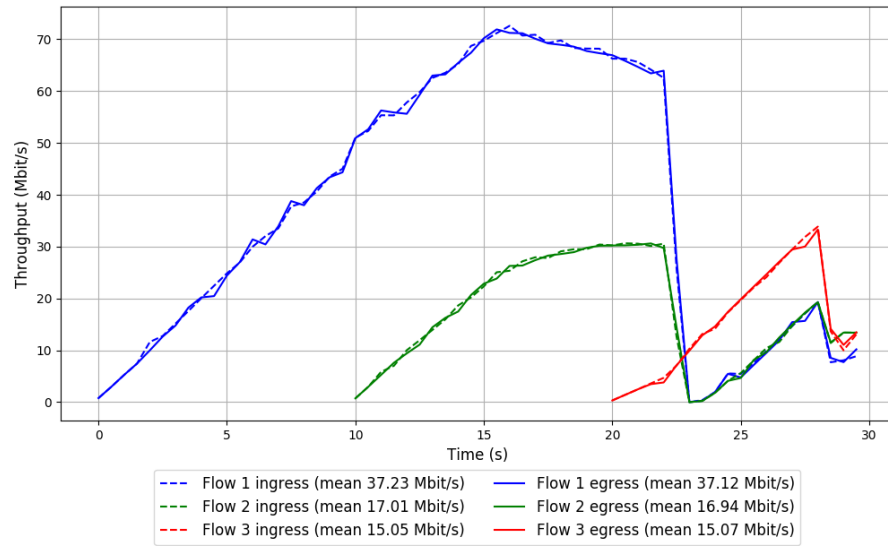
-- Flow 3:

Average throughput: 15.07 Mbit/s

95th percentile per-packet one-way delay: 34.820 ms

Loss rate: 0.16%

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

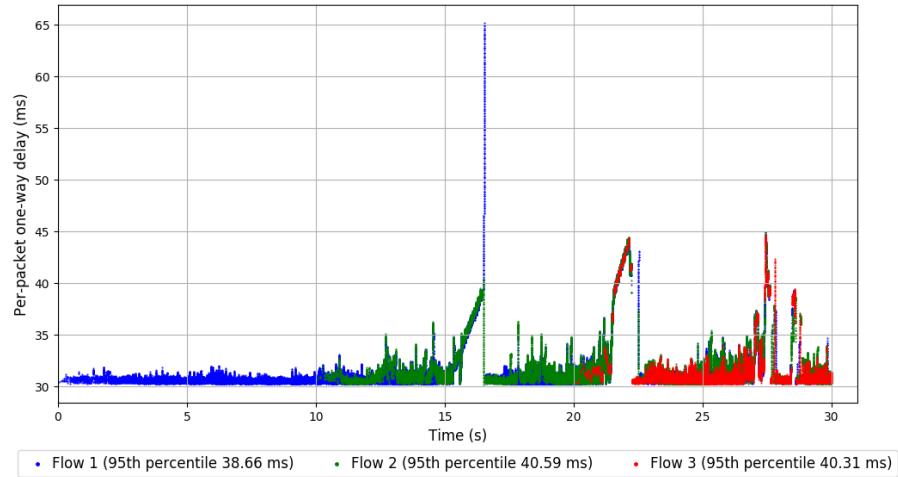
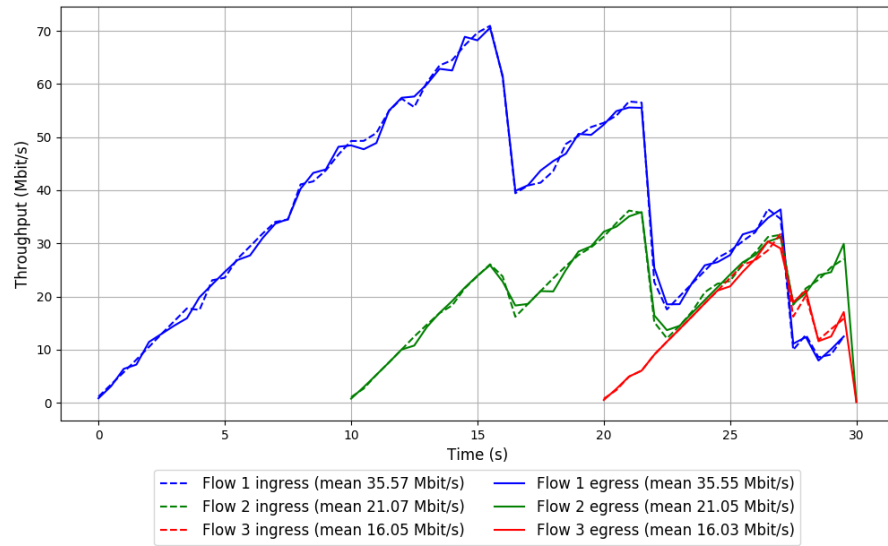


Run 4: Statistics of LEDBAT

Start at: 2018-03-21 05:45:33  
End at: 2018-03-21 05:46:03  
Local clock offset: -0.158 ms  
Remote clock offset: -1.288 ms

# Below is generated by plot.py at 2018-03-21 09:16:38  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 54.85 Mbit/s  
95th percentile per-packet one-way delay: 39.327 ms  
Loss rate: 0.06%  
-- Flow 1:  
Average throughput: 35.55 Mbit/s  
95th percentile per-packet one-way delay: 38.660 ms  
Loss rate: 0.04%  
-- Flow 2:  
Average throughput: 21.05 Mbit/s  
95th percentile per-packet one-way delay: 40.585 ms  
Loss rate: 0.08%  
-- Flow 3:  
Average throughput: 16.03 Mbit/s  
95th percentile per-packet one-way delay: 40.312 ms  
Loss rate: 0.12%

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



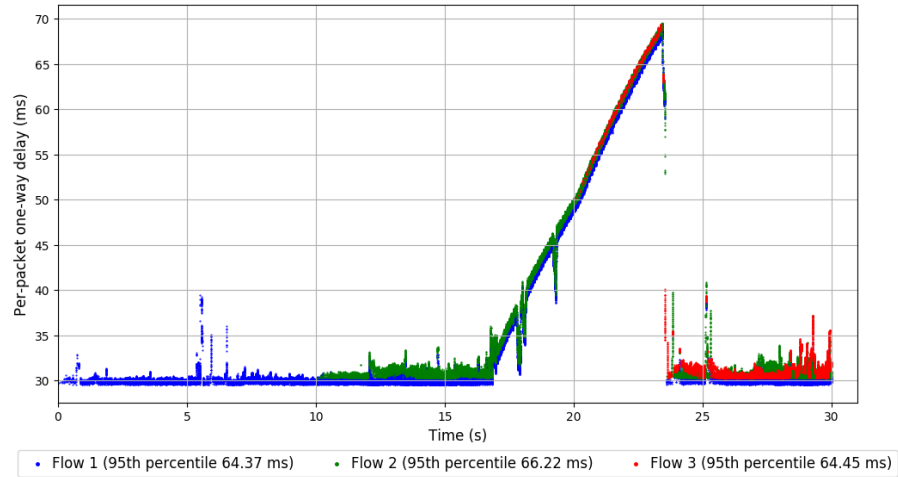
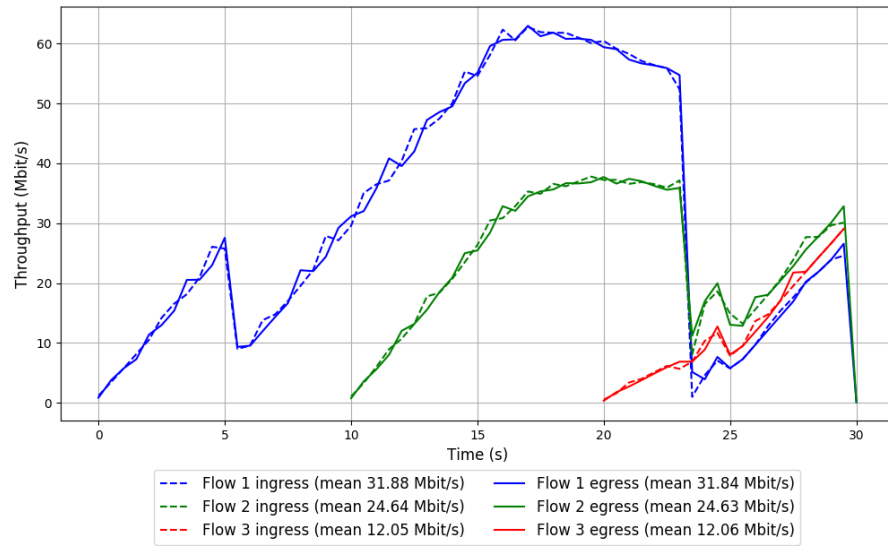
Run 5: Statistics of LEDBAT

Start at: 2018-03-21 06:15:16  
End at: 2018-03-21 06:15:47  
Local clock offset: -0.195 ms  
Remote clock offset: -2.334 ms

# Below is generated by plot.py at 2018-03-21 09:16:56  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 52.22 Mbit/s  
95th percentile per-packet one-way delay: 65.062 ms  
Loss rate: 0.11%  
-- Flow 1:  
Average throughput: 31.84 Mbit/s  
95th percentile per-packet one-way delay: 64.370 ms  
Loss rate: 0.14%  
-- Flow 2:  
Average throughput: 24.63 Mbit/s  
95th percentile per-packet one-way delay: 66.216 ms  
Loss rate: 0.06%  
-- Flow 3:  
Average throughput: 12.06 Mbit/s  
95th percentile per-packet one-way delay: 64.446 ms  
Loss rate: 0.14%



## Run 5: Report of LEDBAT — Data Link

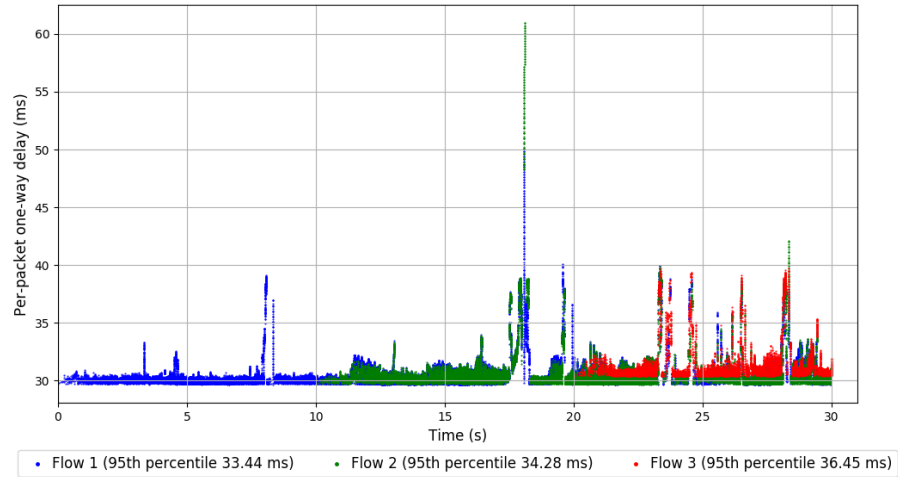
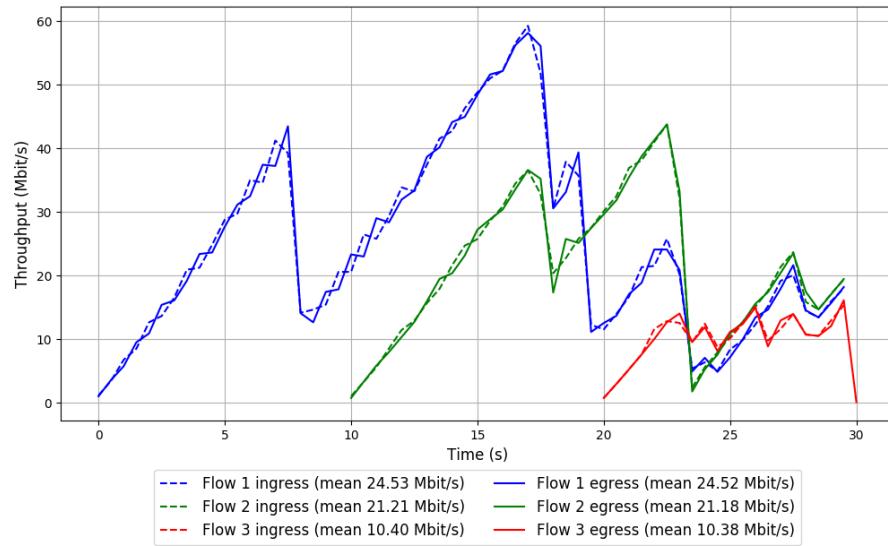


Run 6: Statistics of LEDBAT

Start at: 2018-03-21 06:42:36  
End at: 2018-03-21 06:43:06  
Local clock offset: -0.304 ms  
Remote clock offset: -1.367 ms

# Below is generated by plot.py at 2018-03-21 09:16:56  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 42.03 Mbit/s  
95th percentile per-packet one-way delay: 34.119 ms  
Loss rate: 0.17%  
-- Flow 1:  
Average throughput: 24.52 Mbit/s  
95th percentile per-packet one-way delay: 33.440 ms  
Loss rate: 0.17%  
-- Flow 2:  
Average throughput: 21.18 Mbit/s  
95th percentile per-packet one-way delay: 34.276 ms  
Loss rate: 0.16%  
-- Flow 3:  
Average throughput: 10.38 Mbit/s  
95th percentile per-packet one-way delay: 36.454 ms  
Loss rate: 0.19%

## Run 6: Report of LEDBAT — Data Link

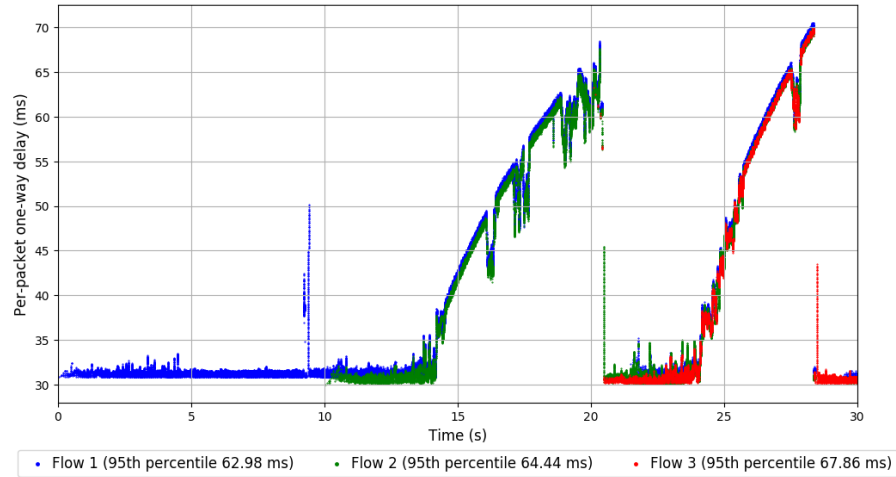
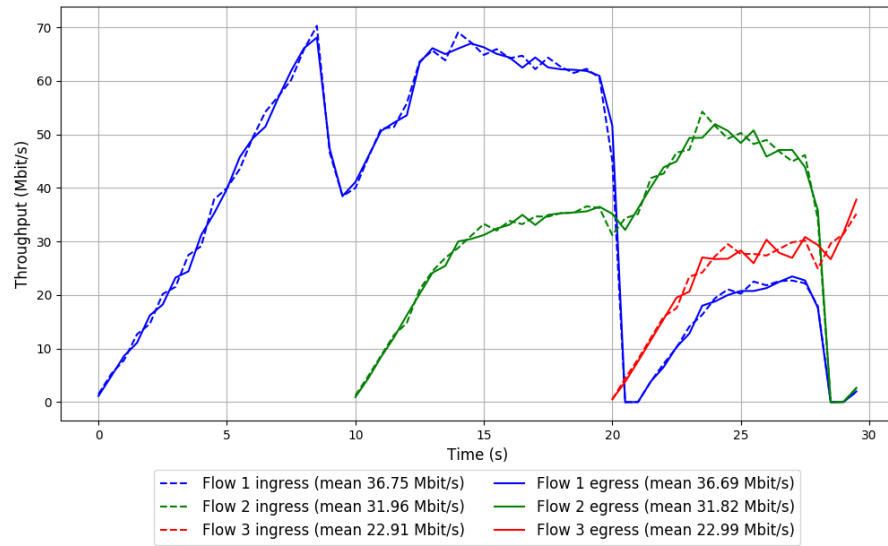


Run 7: Statistics of LEDBAT

Start at: 2018-03-21 07:10:32  
End at: 2018-03-21 07:11:02  
Local clock offset: -0.157 ms  
Remote clock offset: -0.773 ms

# Below is generated by plot.py at 2018-03-21 09:17:10  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 65.42 Mbit/s  
95th percentile per-packet one-way delay: 63.914 ms  
Loss rate: 0.24%  
-- Flow 1:  
Average throughput: 36.69 Mbit/s  
95th percentile per-packet one-way delay: 62.975 ms  
Loss rate: 0.18%  
-- Flow 2:  
Average throughput: 31.82 Mbit/s  
95th percentile per-packet one-way delay: 64.441 ms  
Loss rate: 0.44%  
-- Flow 3:  
Average throughput: 22.99 Mbit/s  
95th percentile per-packet one-way delay: 67.855 ms  
Loss rate: 0.01%

# Run 7: Report of LEDBAT — Data Link

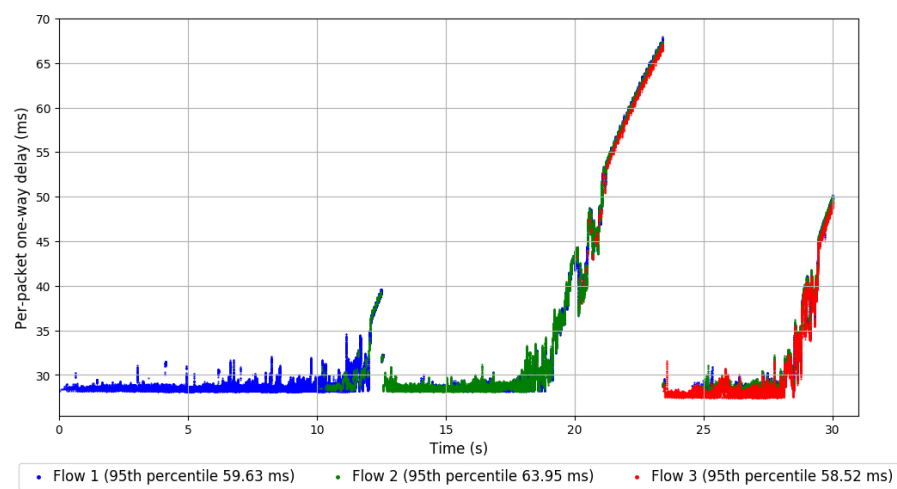
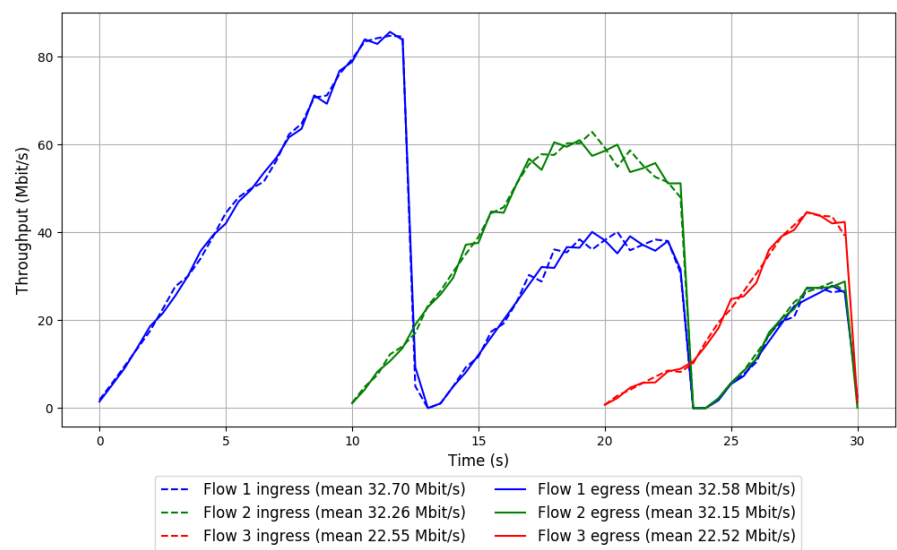


Run 8: Statistics of LEDBAT

Start at: 2018-03-21 07:37:06  
End at: 2018-03-21 07:37:36  
Local clock offset: -0.416 ms  
Remote clock offset: -4.566 ms

# Below is generated by plot.py at 2018-03-21 09:17:10  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 61.45 Mbit/s  
95th percentile per-packet one-way delay: 61.950 ms  
Loss rate: 0.25%  
-- Flow 1:  
Average throughput: 32.58 Mbit/s  
95th percentile per-packet one-way delay: 59.634 ms  
Loss rate: 0.30%  
-- Flow 2:  
Average throughput: 32.15 Mbit/s  
95th percentile per-packet one-way delay: 63.951 ms  
Loss rate: 0.22%  
-- Flow 3:  
Average throughput: 22.52 Mbit/s  
95th percentile per-packet one-way delay: 58.525 ms  
Loss rate: 0.08%

Run 8: Report of LEDBAT — Data Link



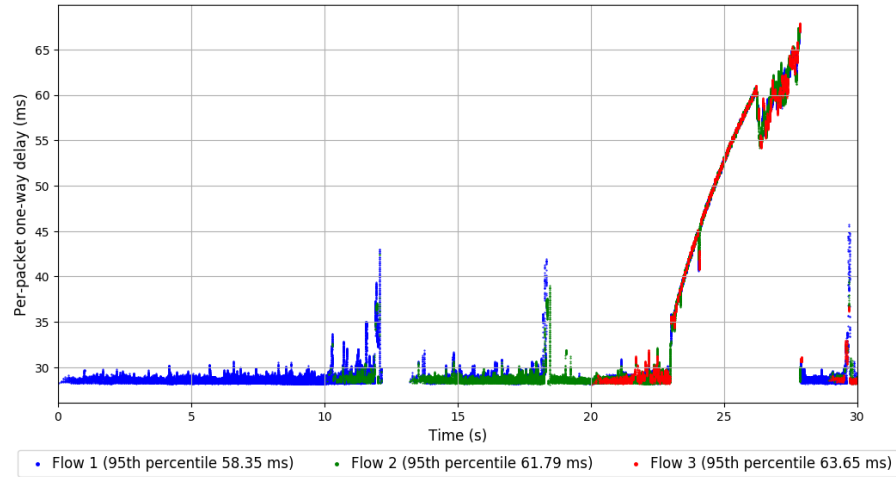
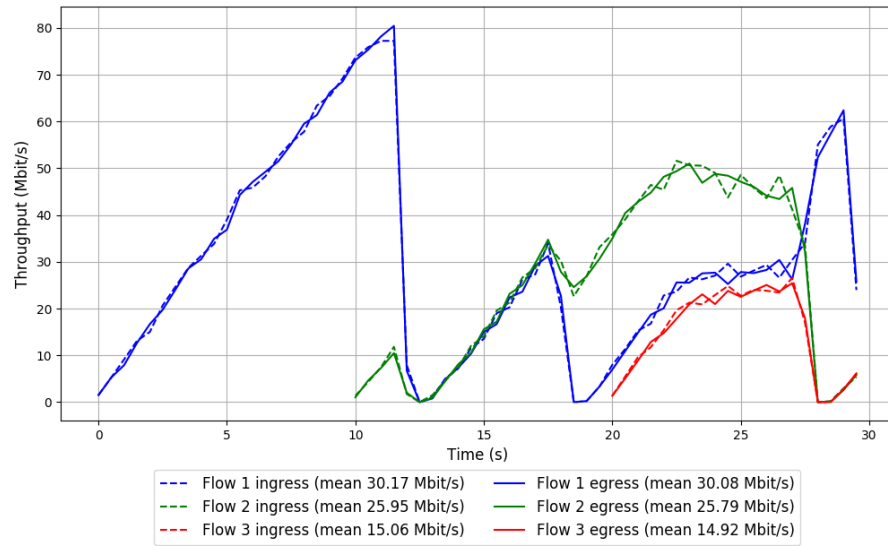
Run 9: Statistics of LEDBAT

Start at: 2018-03-21 08:04:42  
End at: 2018-03-21 08:05:12  
Local clock offset: -0.51 ms  
Remote clock offset: -0.972 ms

# Below is generated by plot.py at 2018-03-21 09:17:10  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 52.17 Mbit/s  
95th percentile per-packet one-way delay: 60.567 ms  
Loss rate: 0.46%  
-- Flow 1:  
Average throughput: 30.08 Mbit/s  
95th percentile per-packet one-way delay: 58.348 ms  
Loss rate: 0.29%  
-- Flow 2:  
Average throughput: 25.79 Mbit/s  
95th percentile per-packet one-way delay: 61.788 ms  
Loss rate: 0.61%  
-- Flow 3:  
Average throughput: 14.92 Mbit/s  
95th percentile per-packet one-way delay: 63.651 ms  
Loss rate: 0.94%



# Run 9: Report of LEDBAT — Data Link

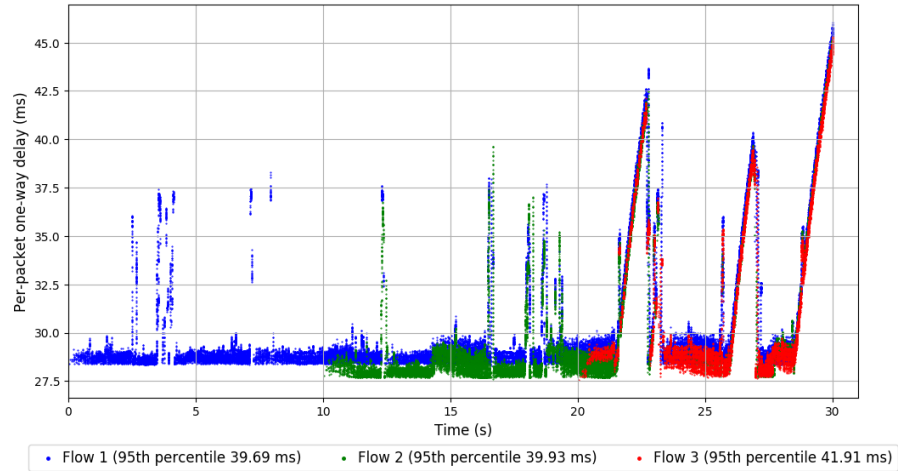
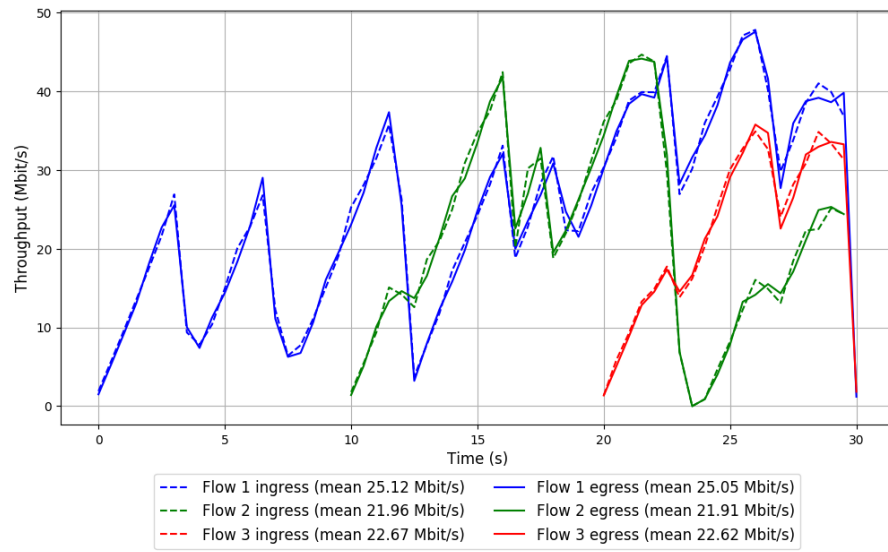


Run 10: Statistics of LEDBAT

Start at: 2018-03-21 08:30:34  
End at: 2018-03-21 08:31:04  
Local clock offset: -0.604 ms  
Remote clock offset: -2.493 ms

# Below is generated by plot.py at 2018-03-21 09:17:10  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 47.14 Mbit/s  
95th percentile per-packet one-way delay: 40.328 ms  
Loss rate: 0.16%  
-- Flow 1:  
Average throughput: 25.05 Mbit/s  
95th percentile per-packet one-way delay: 39.687 ms  
Loss rate: 0.21%  
-- Flow 2:  
Average throughput: 21.91 Mbit/s  
95th percentile per-packet one-way delay: 39.932 ms  
Loss rate: 0.13%  
-- Flow 3:  
Average throughput: 22.62 Mbit/s  
95th percentile per-packet one-way delay: 41.912 ms  
Loss rate: 0.03%

# Run 10: Report of LEDBAT — Data Link

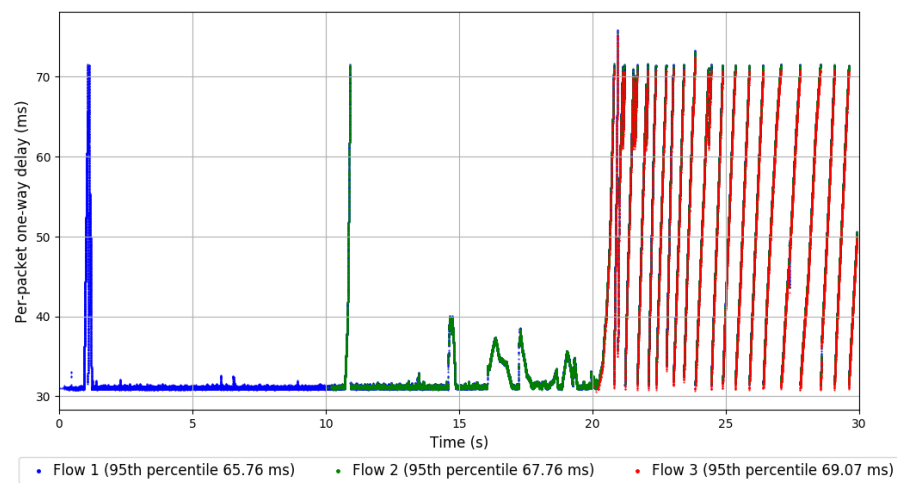
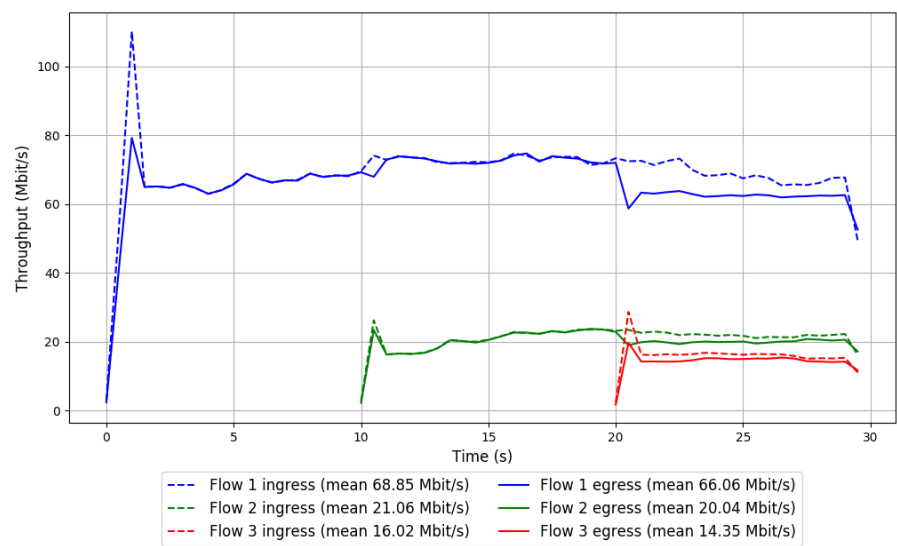


Run 1: Statistics of PCC

Start at: 2018-03-21 04:18:44  
End at: 2018-03-21 04:19:14  
Local clock offset: 0.151 ms  
Remote clock offset: -1.868 ms

# Below is generated by plot.py at 2018-03-21 09:17:57  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 84.12 Mbit/s  
95th percentile per-packet one-way delay: 66.673 ms  
Loss rate: 4.49%  
-- Flow 1:  
Average throughput: 66.06 Mbit/s  
95th percentile per-packet one-way delay: 65.759 ms  
Loss rate: 3.99%  
-- Flow 2:  
Average throughput: 20.04 Mbit/s  
95th percentile per-packet one-way delay: 67.759 ms  
Loss rate: 4.78%  
-- Flow 3:  
Average throughput: 14.35 Mbit/s  
95th percentile per-packet one-way delay: 69.069 ms  
Loss rate: 10.28%

Run 1: Report of PCC — Data Link

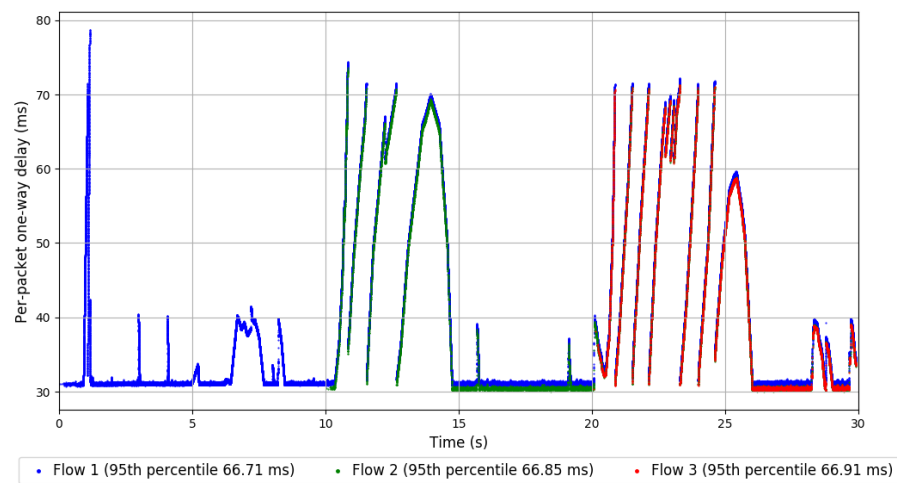
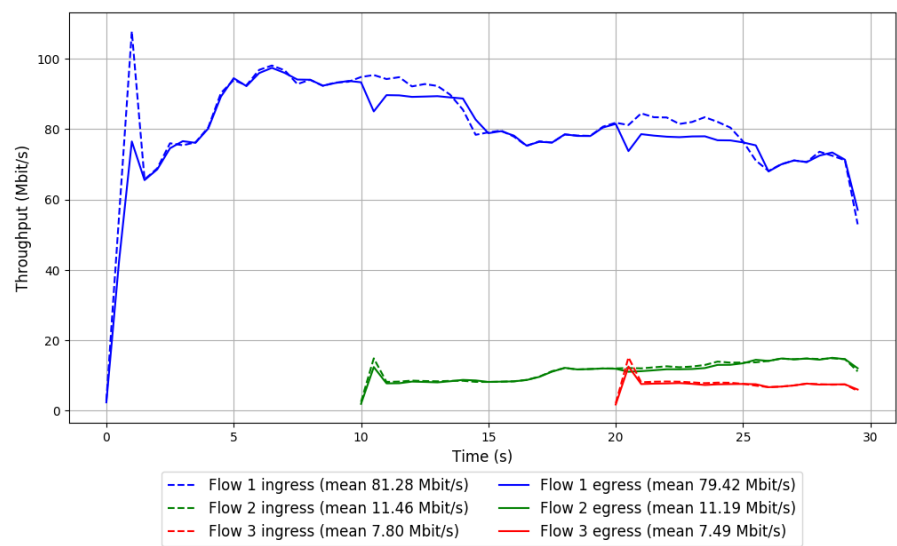


Run 2: Statistics of PCC

Start at: 2018-03-21 04:48:34  
End at: 2018-03-21 04:49:04  
Local clock offset: -0.468 ms  
Remote clock offset: -0.077 ms

# Below is generated by plot.py at 2018-03-21 09:18:07  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 89.33 Mbit/s  
95th percentile per-packet one-way delay: 66.736 ms  
Loss rate: 2.33%  
-- Flow 1:  
Average throughput: 79.42 Mbit/s  
95th percentile per-packet one-way delay: 66.714 ms  
Loss rate: 2.28%  
-- Flow 2:  
Average throughput: 11.19 Mbit/s  
95th percentile per-packet one-way delay: 66.853 ms  
Loss rate: 2.31%  
-- Flow 3:  
Average throughput: 7.49 Mbit/s  
95th percentile per-packet one-way delay: 66.910 ms  
Loss rate: 3.94%

Run 2: Report of PCC — Data Link



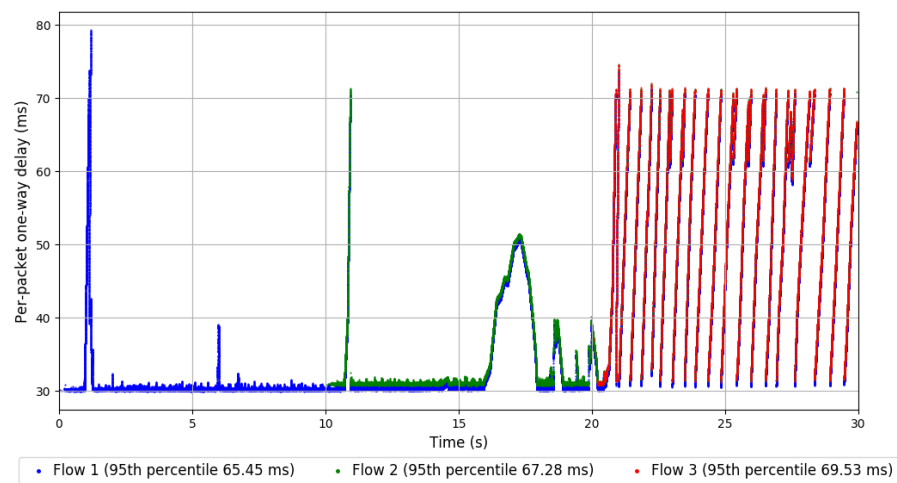
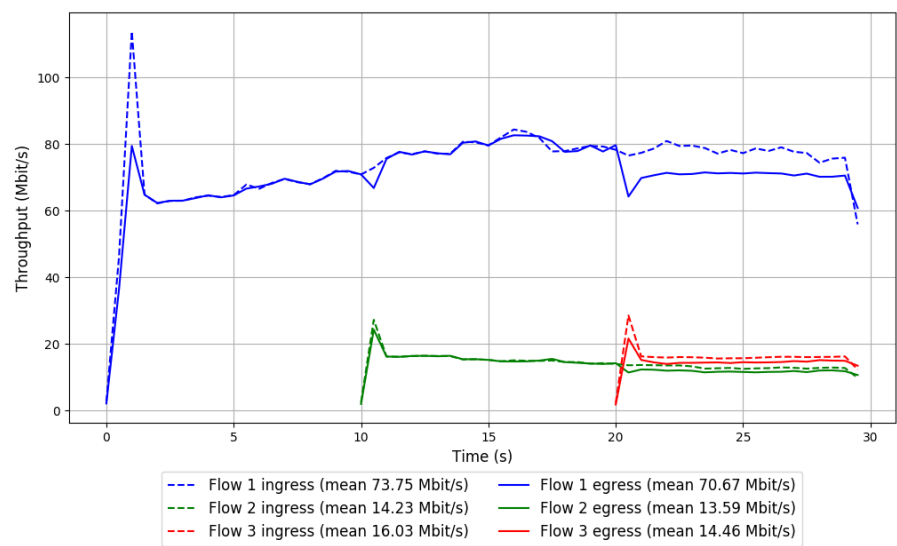
Run 3: Statistics of PCC

Start at: 2018-03-21 05:18:25  
End at: 2018-03-21 05:18:55  
Local clock offset: -0.197 ms  
Remote clock offset: -0.021 ms

# Below is generated by plot.py at 2018-03-21 09:18:07  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 84.48 Mbit/s  
95th percentile per-packet one-way delay: 66.287 ms  
Loss rate: 4.41%  
-- Flow 1:  
Average throughput: 70.67 Mbit/s  
95th percentile per-packet one-way delay: 65.446 ms  
Loss rate: 4.06%  
-- Flow 2:  
Average throughput: 13.59 Mbit/s  
95th percentile per-packet one-way delay: 67.276 ms  
Loss rate: 4.32%  
-- Flow 3:  
Average throughput: 14.46 Mbit/s  
95th percentile per-packet one-way delay: 69.531 ms  
Loss rate: 9.54%



Run 3: Report of PCC — Data Link

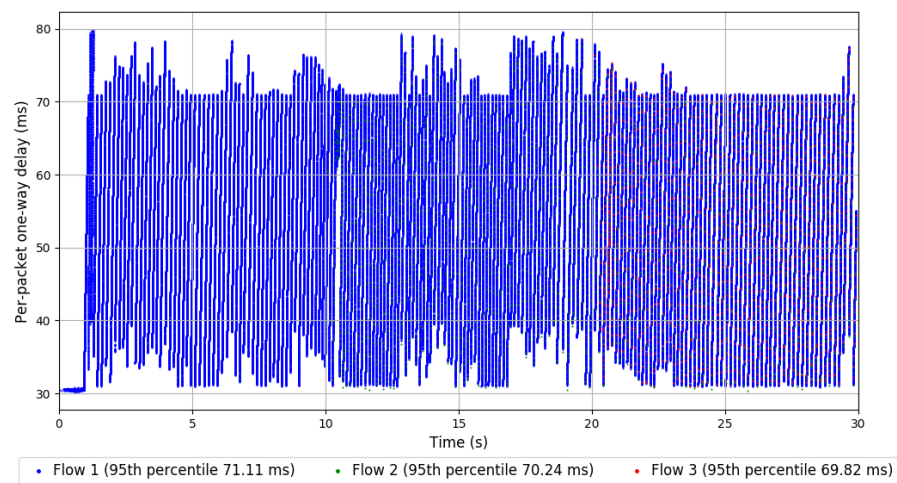
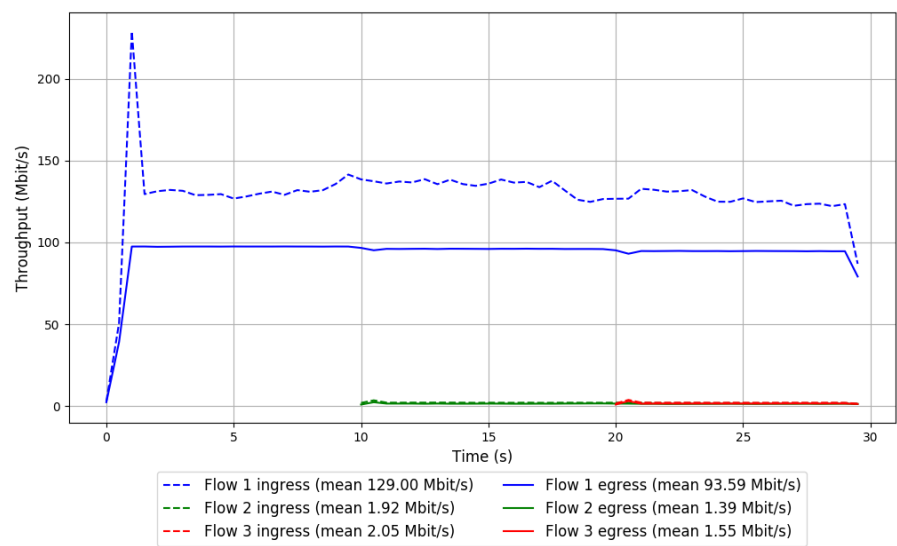


Run 4: Statistics of PCC

Start at: 2018-03-21 05:47:15  
End at: 2018-03-21 05:47:45  
Local clock offset: -0.25 ms  
Remote clock offset: -1.236 ms

# Below is generated by plot.py at 2018-03-21 09:18:35  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.02 Mbit/s  
95th percentile per-packet one-way delay: 71.092 ms  
Loss rate: 27.38%  
-- Flow 1:  
Average throughput: 93.59 Mbit/s  
95th percentile per-packet one-way delay: 71.113 ms  
Loss rate: 27.39%  
-- Flow 2:  
Average throughput: 1.39 Mbit/s  
95th percentile per-packet one-way delay: 70.239 ms  
Loss rate: 27.74%  
-- Flow 3:  
Average throughput: 1.55 Mbit/s  
95th percentile per-packet one-way delay: 69.818 ms  
Loss rate: 24.78%

Run 4: Report of PCC — Data Link

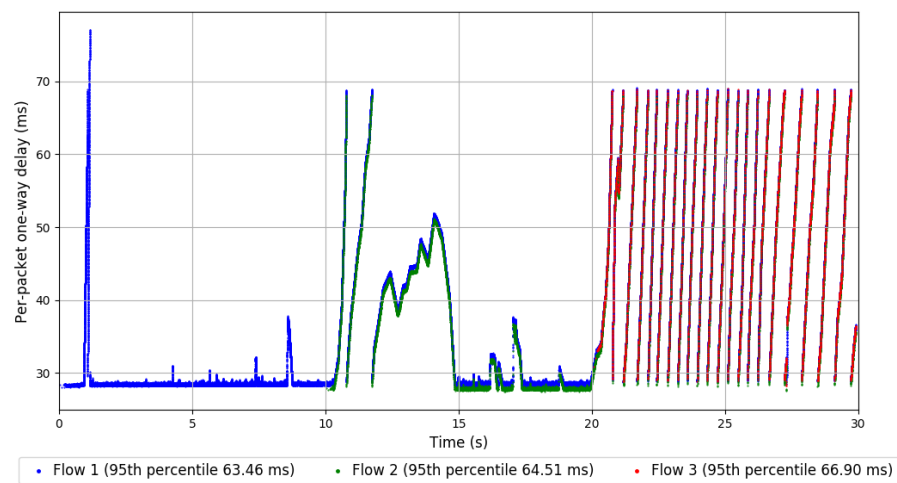
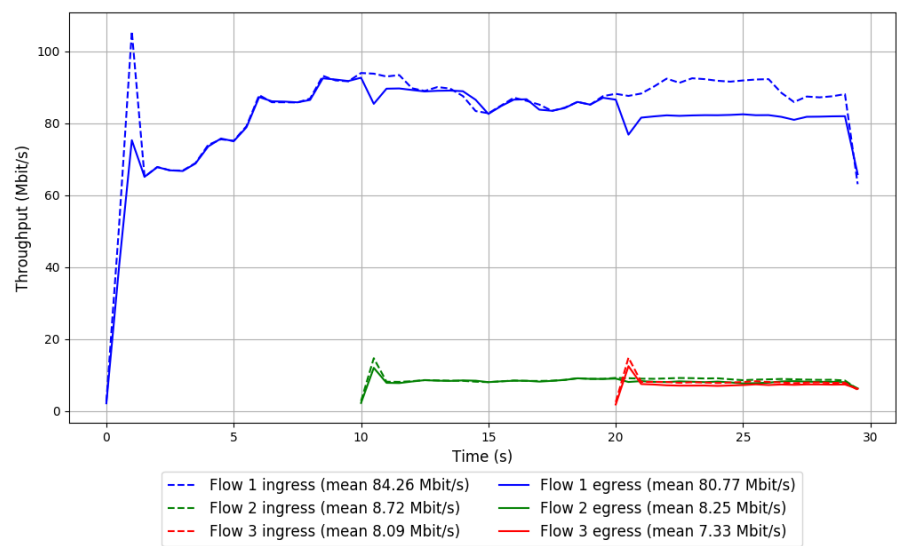


Run 5: Statistics of PCC

Start at: 2018-03-21 06:16:47  
End at: 2018-03-21 06:17:17  
Local clock offset: -0.193 ms  
Remote clock offset: -4.387 ms

# Below is generated by plot.py at 2018-03-21 09:18:35  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 88.67 Mbit/s  
95th percentile per-packet one-way delay: 63.800 ms  
Loss rate: 4.35%  
-- Flow 1:  
Average throughput: 80.77 Mbit/s  
95th percentile per-packet one-way delay: 63.457 ms  
Loss rate: 4.12%  
-- Flow 2:  
Average throughput: 8.25 Mbit/s  
95th percentile per-packet one-way delay: 64.513 ms  
Loss rate: 5.35%  
-- Flow 3:  
Average throughput: 7.33 Mbit/s  
95th percentile per-packet one-way delay: 66.900 ms  
Loss rate: 9.31%

Run 5: Report of PCC — Data Link

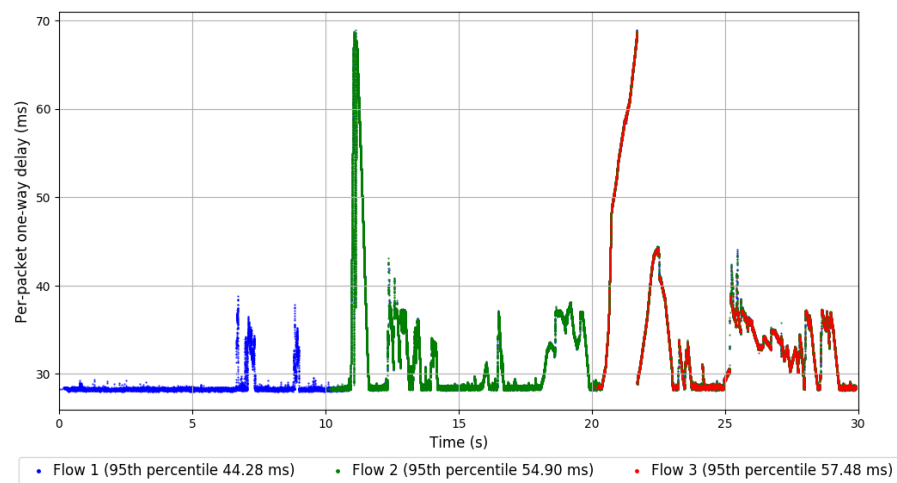
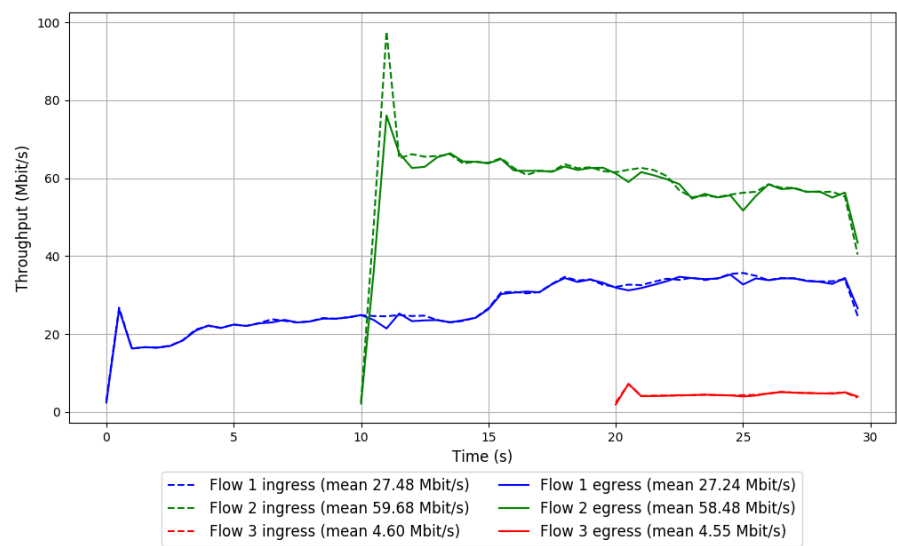


Run 6: Statistics of PCC

Start at: 2018-03-21 06:44:05  
End at: 2018-03-21 06:44:35  
Local clock offset: -0.22 ms  
Remote clock offset: -3.388 ms

# Below is generated by plot.py at 2018-03-21 09:18:35  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 67.62 Mbit/s  
95th percentile per-packet one-way delay: 52.365 ms  
Loss rate: 1.53%  
-- Flow 1:  
Average throughput: 27.24 Mbit/s  
95th percentile per-packet one-way delay: 44.284 ms  
Loss rate: 0.87%  
-- Flow 2:  
Average throughput: 58.48 Mbit/s  
95th percentile per-packet one-way delay: 54.904 ms  
Loss rate: 2.01%  
-- Flow 3:  
Average throughput: 4.55 Mbit/s  
95th percentile per-packet one-way delay: 57.477 ms  
Loss rate: 0.96%

Run 6: Report of PCC — Data Link



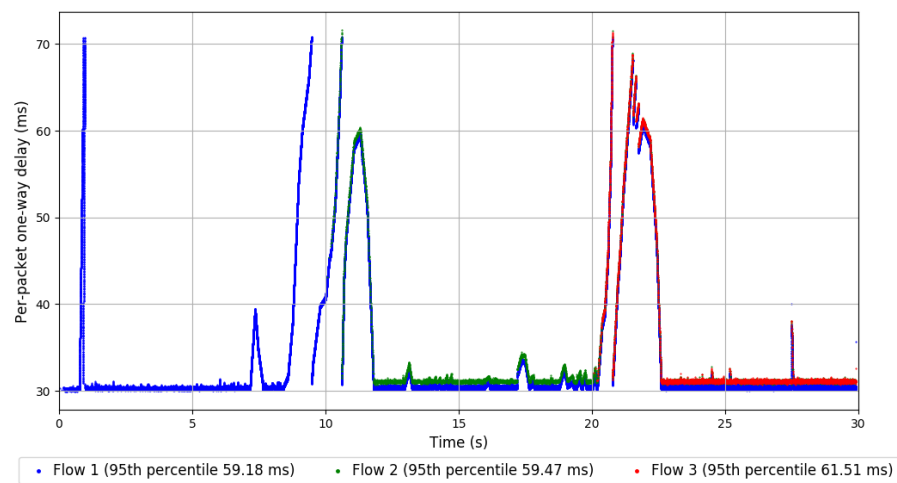
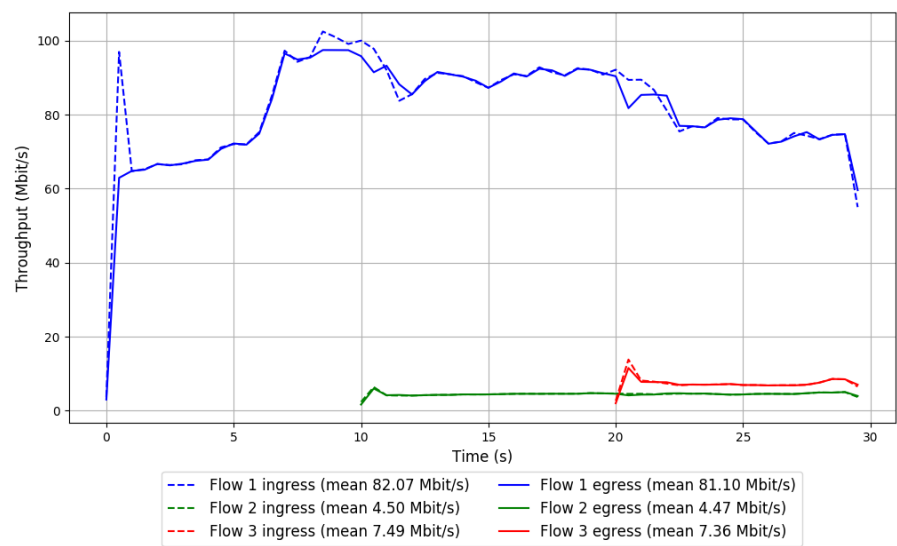
Run 7: Statistics of PCC

Start at: 2018-03-21 07:12:01  
End at: 2018-03-21 07:12:31  
Local clock offset: -0.095 ms  
Remote clock offset: -0.889 ms

# Below is generated by plot.py at 2018-03-21 09:18:35  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 86.49 Mbit/s  
95th percentile per-packet one-way delay: 59.282 ms  
Loss rate: 1.16%  
-- Flow 1:  
Average throughput: 81.10 Mbit/s  
95th percentile per-packet one-way delay: 59.183 ms  
Loss rate: 1.16%  
-- Flow 2:  
Average throughput: 4.47 Mbit/s  
95th percentile per-packet one-way delay: 59.466 ms  
Loss rate: 0.67%  
-- Flow 3:  
Average throughput: 7.36 Mbit/s  
95th percentile per-packet one-way delay: 61.510 ms  
Loss rate: 1.71%



Run 7: Report of PCC — Data Link

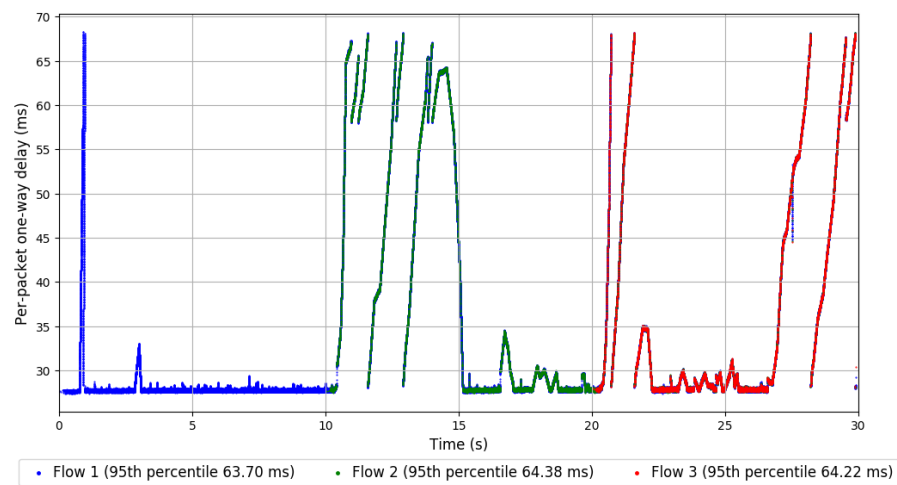
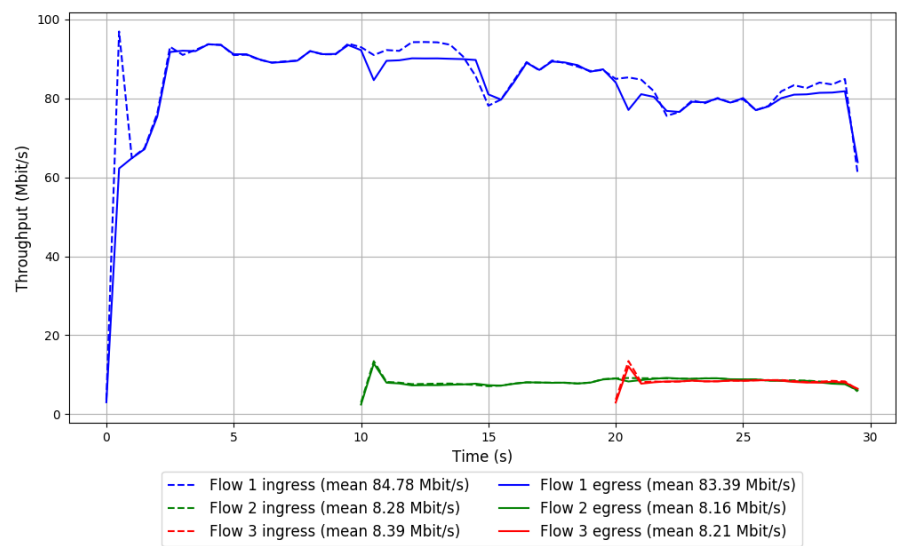


Run 8: Statistics of PCC

Start at: 2018-03-21 07:38:35  
End at: 2018-03-21 07:39:05  
Local clock offset: -0.434 ms  
Remote clock offset: -4.536 ms

# Below is generated by plot.py at 2018-03-21 09:18:37  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 91.51 Mbit/s  
95th percentile per-packet one-way delay: 63.744 ms  
Loss rate: 1.64%  
-- Flow 1:  
Average throughput: 83.39 Mbit/s  
95th percentile per-packet one-way delay: 63.700 ms  
Loss rate: 1.63%  
-- Flow 2:  
Average throughput: 8.16 Mbit/s  
95th percentile per-packet one-way delay: 64.378 ms  
Loss rate: 1.45%  
-- Flow 3:  
Average throughput: 8.21 Mbit/s  
95th percentile per-packet one-way delay: 64.217 ms  
Loss rate: 2.11%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2018-03-21 08:06:08

End at: 2018-03-21 08:06:38

Local clock offset: -0.576 ms

Remote clock offset: 1.155 ms

# Below is generated by plot.py at 2018-03-21 09:19:22

# Datalink statistics

-- Total of 3 flows:

Average throughput: 88.22 Mbit/s

95th percentile per-packet one-way delay: 46.834 ms

Loss rate: 0.60%

-- Flow 1:

Average throughput: 83.40 Mbit/s

95th percentile per-packet one-way delay: 46.634 ms

Loss rate: 0.63%

-- Flow 2:

Average throughput: 4.98 Mbit/s

95th percentile per-packet one-way delay: 45.837 ms

Loss rate: 0.00%

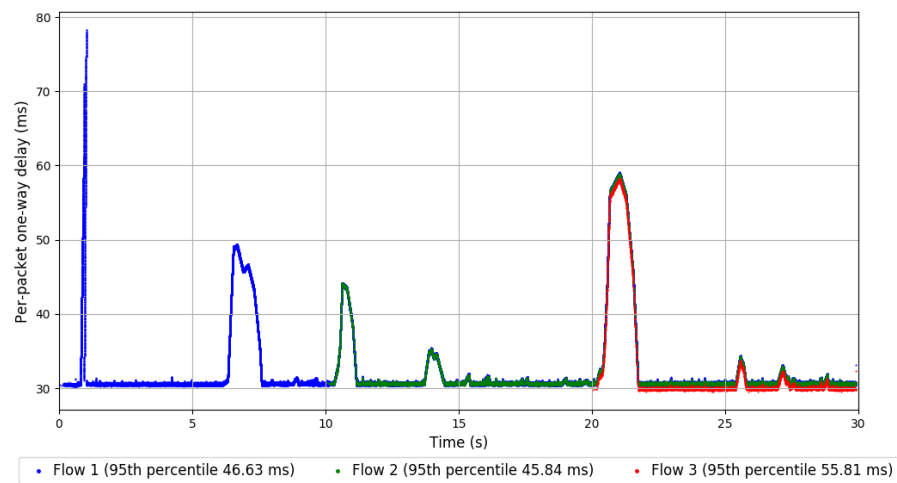
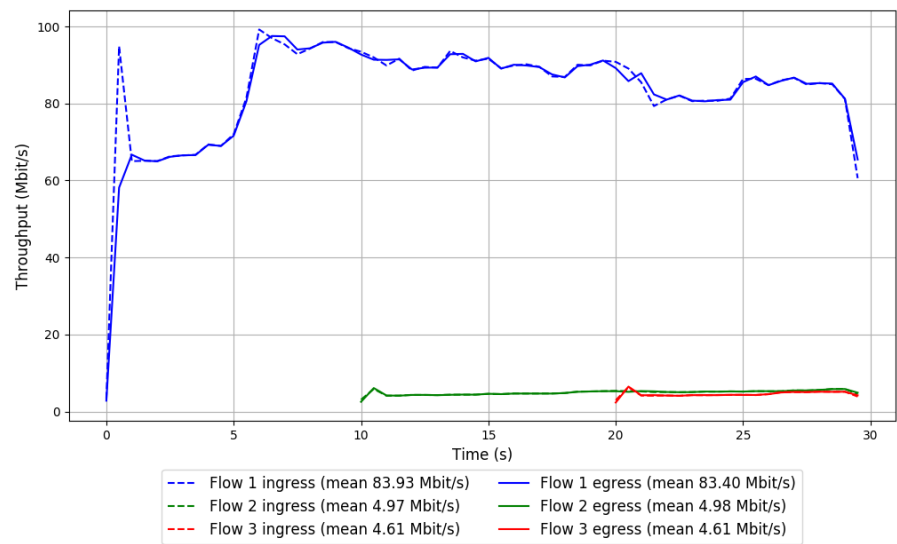
-- Flow 3:

Average throughput: 4.61 Mbit/s

95th percentile per-packet one-way delay: 55.815 ms

Loss rate: 0.00%

Run 9: Report of PCC — Data Link

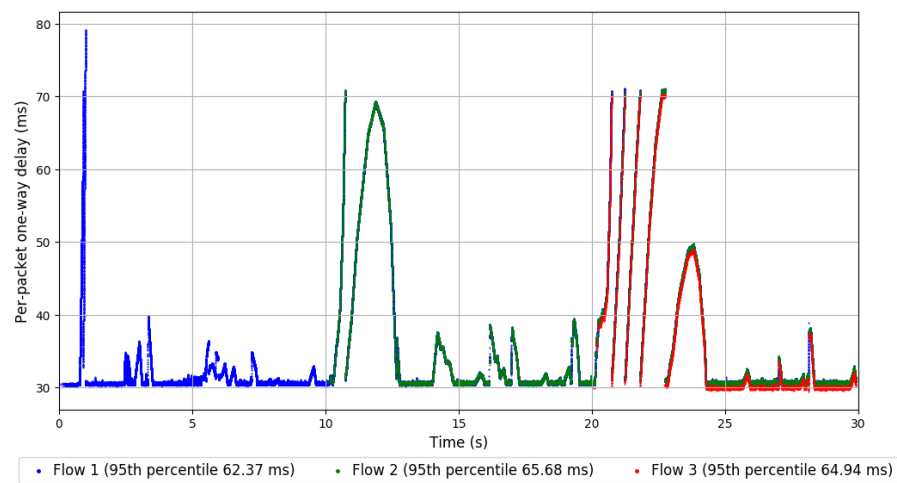
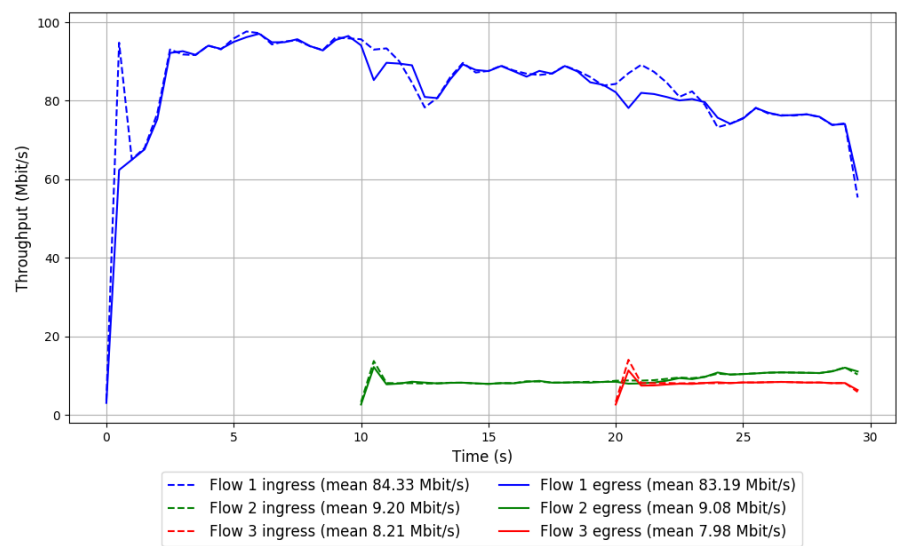


Run 10: Statistics of PCC

Start at: 2018-03-21 08:31:55  
End at: 2018-03-21 08:32:25  
Local clock offset: -0.51 ms  
Remote clock offset: -0.502 ms

# Below is generated by plot.py at 2018-03-21 09:19:34  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 91.86 Mbit/s  
95th percentile per-packet one-way delay: 62.894 ms  
Loss rate: 1.38%  
-- Flow 1:  
Average throughput: 83.19 Mbit/s  
95th percentile per-packet one-way delay: 62.367 ms  
Loss rate: 1.35%  
-- Flow 2:  
Average throughput: 9.08 Mbit/s  
95th percentile per-packet one-way delay: 65.679 ms  
Loss rate: 1.25%  
-- Flow 3:  
Average throughput: 7.98 Mbit/s  
95th percentile per-packet one-way delay: 64.945 ms  
Loss rate: 2.80%

Run 10: Report of PCC — Data Link



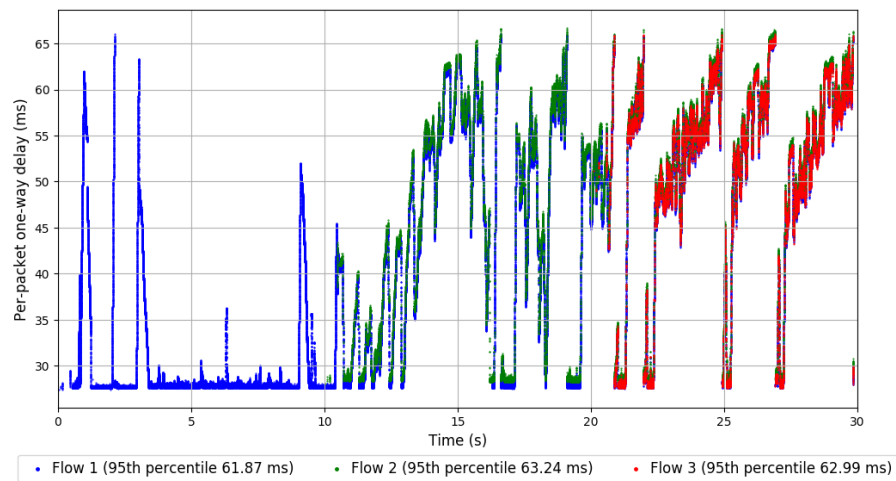
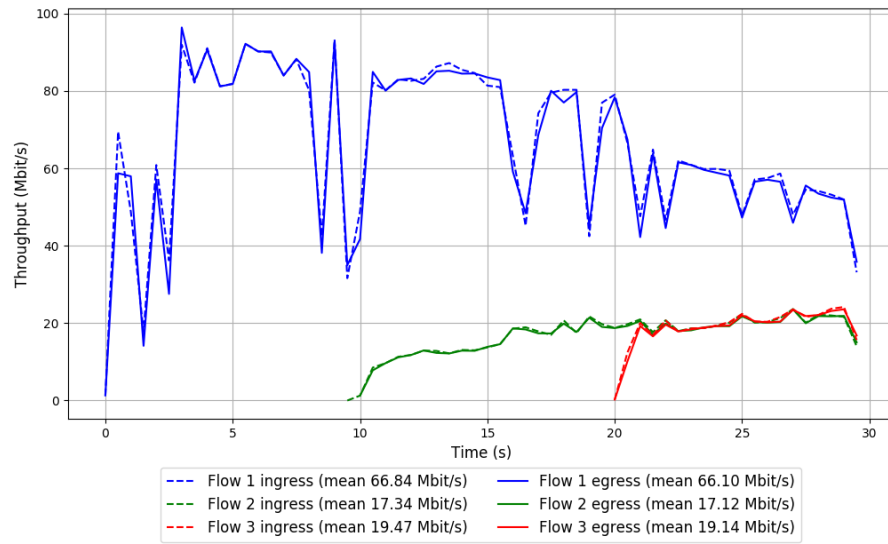
Run 1: Statistics of QUIC Cubic

Start at: 2018-03-21 04:09:07  
End at: 2018-03-21 04:09:37  
Local clock offset: 0.089 ms  
Remote clock offset: -5.181 ms

# Below is generated by plot.py at 2018-03-21 09:19:34  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 83.74 Mbit/s  
95th percentile per-packet one-way delay: 62.166 ms  
Loss rate: 1.18%  
-- Flow 1:  
Average throughput: 66.10 Mbit/s  
95th percentile per-packet one-way delay: 61.873 ms  
Loss rate: 1.10%  
-- Flow 2:  
Average throughput: 17.12 Mbit/s  
95th percentile per-packet one-way delay: 63.239 ms  
Loss rate: 1.25%  
-- Flow 3:  
Average throughput: 19.14 Mbit/s  
95th percentile per-packet one-way delay: 62.995 ms  
Loss rate: 1.88%



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

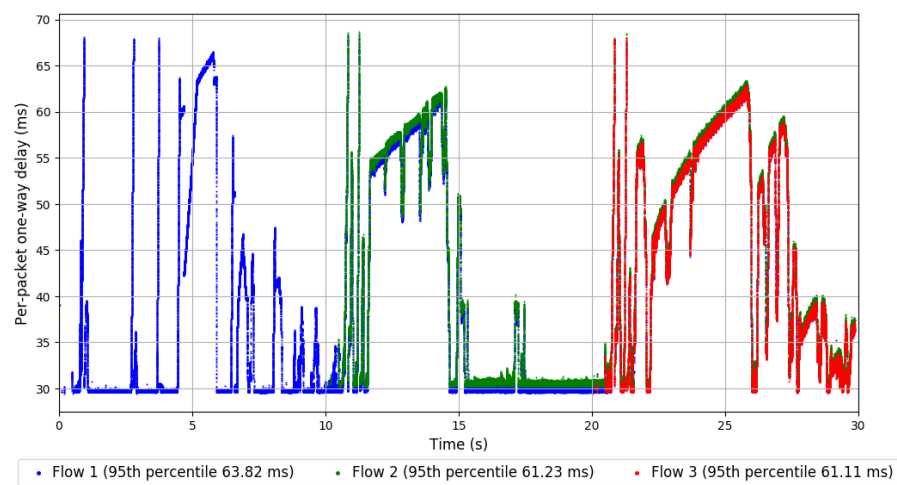
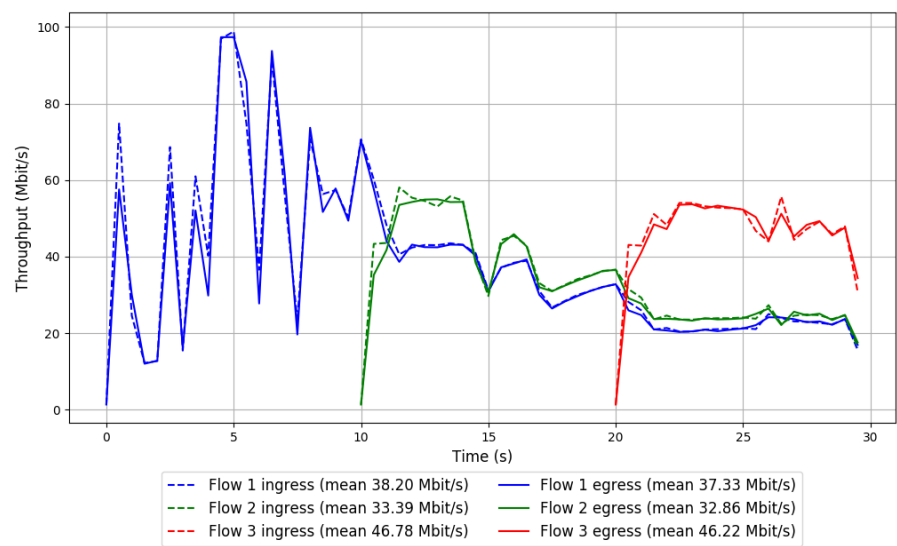


Run 2: Statistics of QUIC Cubic

Start at: 2018-03-21 04:40:22  
End at: 2018-03-21 04:40:52  
Local clock offset: -0.304 ms  
Remote clock offset: -1.192 ms

# Below is generated by plot.py at 2018-03-21 09:19:34  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 74.38 Mbit/s  
95th percentile per-packet one-way delay: 61.708 ms  
Loss rate: 1.83%  
-- Flow 1:  
Average throughput: 37.33 Mbit/s  
95th percentile per-packet one-way delay: 63.816 ms  
Loss rate: 2.28%  
-- Flow 2:  
Average throughput: 32.86 Mbit/s  
95th percentile per-packet one-way delay: 61.234 ms  
Loss rate: 1.55%  
-- Flow 3:  
Average throughput: 46.22 Mbit/s  
95th percentile per-packet one-way delay: 61.110 ms  
Loss rate: 1.14%

Run 2: Report of QUIC Cubic — Data Link

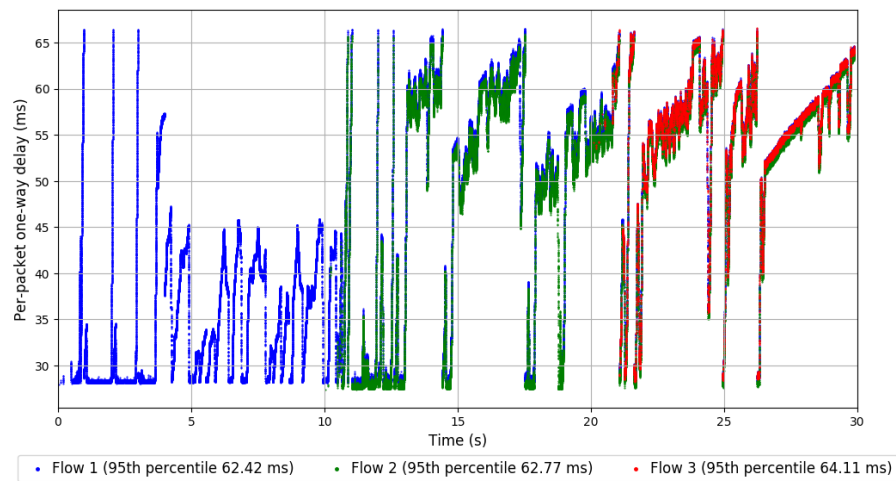
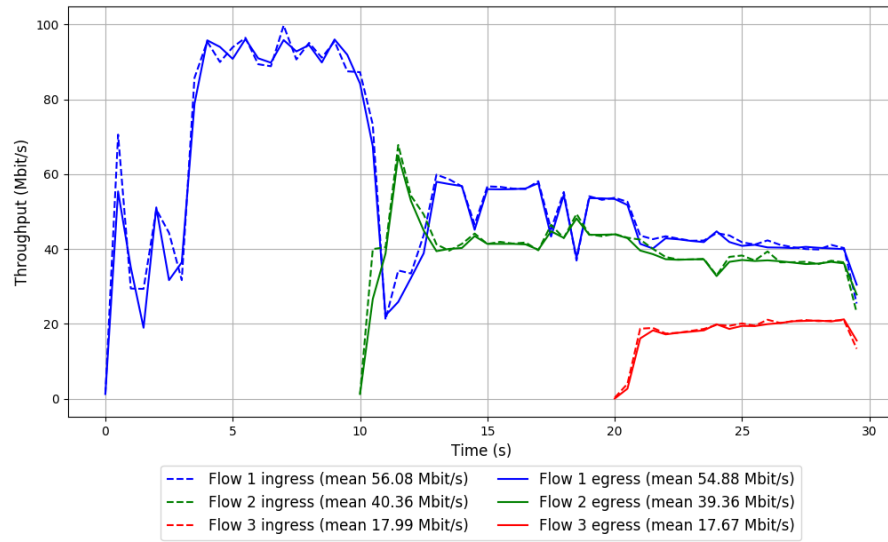


Run 3: Statistics of QUIC Cubic

Start at: 2018-03-21 05:09:17  
End at: 2018-03-21 05:09:47  
Local clock offset: -0.368 ms  
Remote clock offset: -3.087 ms

# Below is generated by plot.py at 2018-03-21 09:19:50  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 86.83 Mbit/s  
95th percentile per-packet one-way delay: 62.693 ms  
Loss rate: 2.09%  
-- Flow 1:  
Average throughput: 54.88 Mbit/s  
95th percentile per-packet one-way delay: 62.423 ms  
Loss rate: 2.02%  
-- Flow 2:  
Average throughput: 39.36 Mbit/s  
95th percentile per-packet one-way delay: 62.772 ms  
Loss rate: 2.30%  
-- Flow 3:  
Average throughput: 17.67 Mbit/s  
95th percentile per-packet one-way delay: 64.111 ms  
Loss rate: 1.74%

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

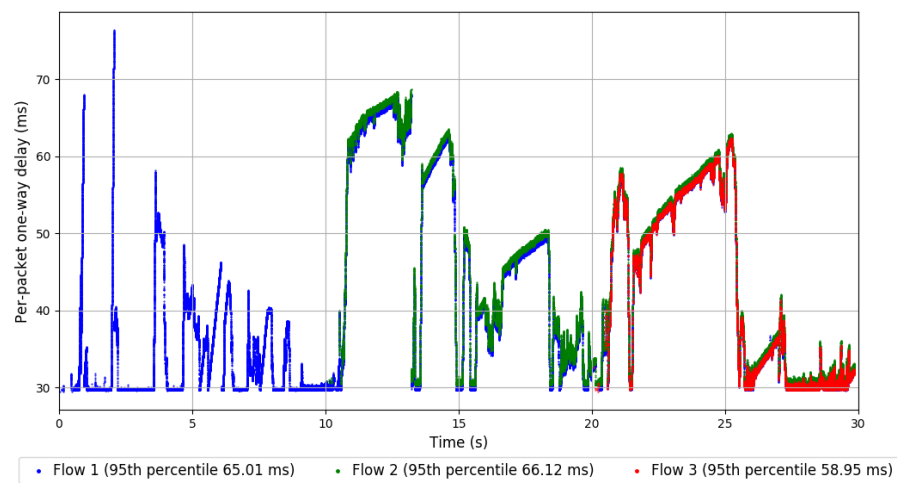
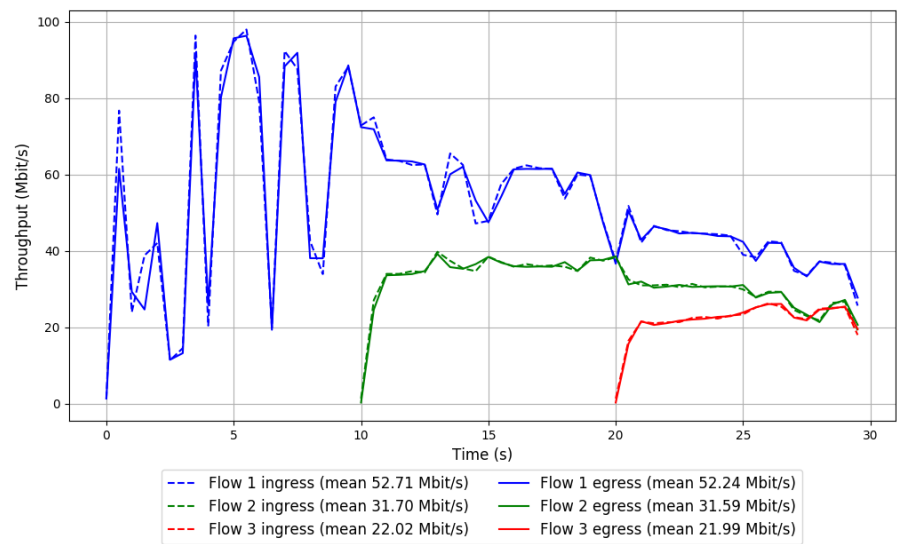


Run 4: Statistics of QUIC Cubic

Start at: 2018-03-21 05:38:27  
End at: 2018-03-21 05:38:57  
Local clock offset: -0.186 ms  
Remote clock offset: -1.366 ms

# Below is generated by plot.py at 2018-03-21 09:19:50  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 80.42 Mbit/s  
95th percentile per-packet one-way delay: 65.101 ms  
Loss rate: 0.67%  
-- Flow 1:  
Average throughput: 52.24 Mbit/s  
95th percentile per-packet one-way delay: 65.009 ms  
Loss rate: 0.89%  
-- Flow 2:  
Average throughput: 31.59 Mbit/s  
95th percentile per-packet one-way delay: 66.120 ms  
Loss rate: 0.32%  
-- Flow 3:  
Average throughput: 21.99 Mbit/s  
95th percentile per-packet one-way delay: 58.949 ms  
Loss rate: 0.17%

Run 4: Report of QUIC Cubic — Data Link



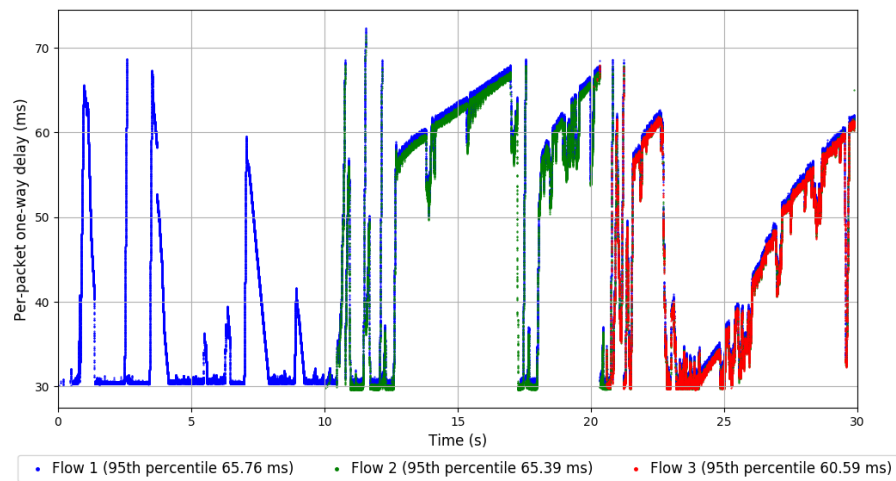
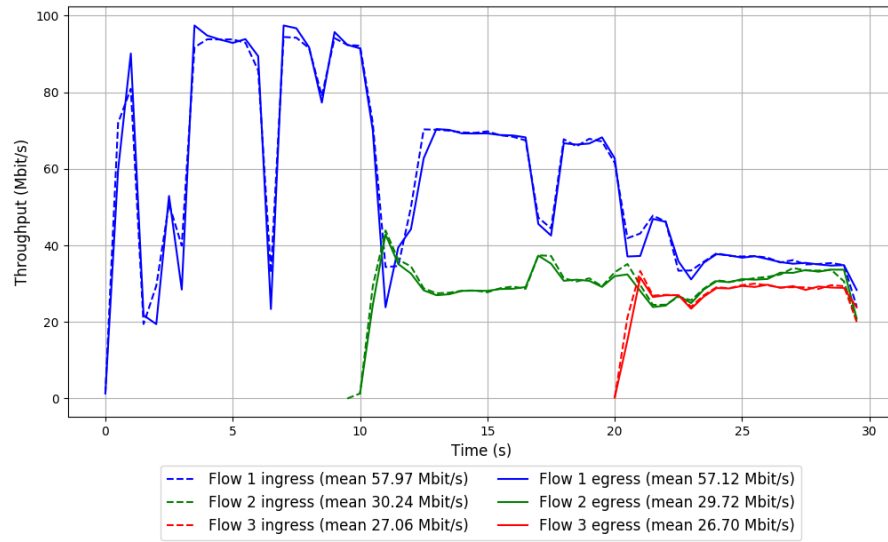
Run 5: Statistics of QUIC Cubic

Start at: 2018-03-21 06:08:47  
End at: 2018-03-21 06:09:17  
Local clock offset: -0.174 ms  
Remote clock offset: -2.149 ms

# Below is generated by plot.py at 2018-03-21 09:20:09  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 85.61 Mbit/s  
95th percentile per-packet one-way delay: 65.482 ms  
Loss rate: 1.40%  
-- Flow 1:  
Average throughput: 57.12 Mbit/s  
95th percentile per-packet one-way delay: 65.758 ms  
Loss rate: 1.36%  
-- Flow 2:  
Average throughput: 29.72 Mbit/s  
95th percentile per-packet one-way delay: 65.395 ms  
Loss rate: 1.54%  
-- Flow 3:  
Average throughput: 26.70 Mbit/s  
95th percentile per-packet one-way delay: 60.591 ms  
Loss rate: 1.39%



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

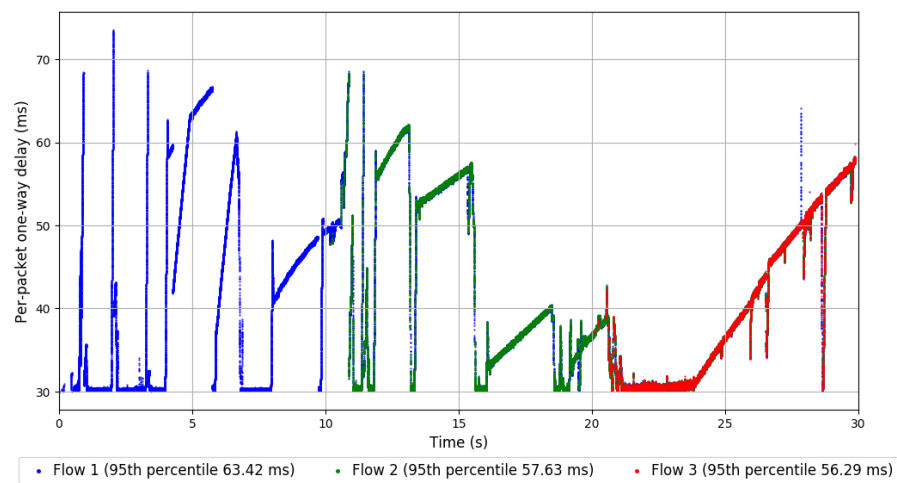
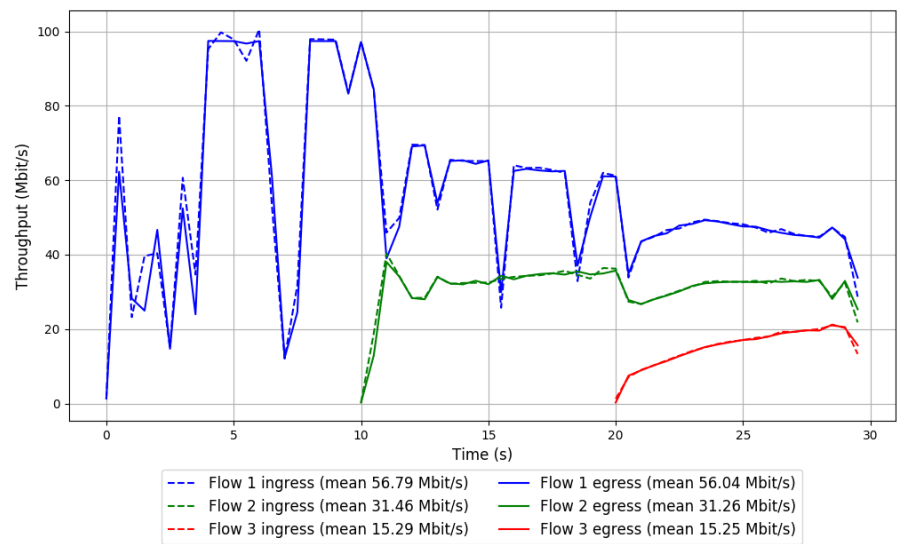


Run 6: Statistics of QUIC Cubic

Start at: 2018-03-21 06:36:32  
End at: 2018-03-21 06:37:02  
Local clock offset: -0.319 ms  
Remote clock offset: -1.337 ms

# Below is generated by plot.py at 2018-03-21 09:20:09  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 81.80 Mbit/s  
95th percentile per-packet one-way delay: 61.365 ms  
Loss rate: 0.99%  
-- Flow 1:  
Average throughput: 56.04 Mbit/s  
95th percentile per-packet one-way delay: 63.425 ms  
Loss rate: 1.21%  
-- Flow 2:  
Average throughput: 31.26 Mbit/s  
95th percentile per-packet one-way delay: 57.634 ms  
Loss rate: 0.60%  
-- Flow 3:  
Average throughput: 15.25 Mbit/s  
95th percentile per-packet one-way delay: 56.291 ms  
Loss rate: 0.07%

Run 6: Report of QUIC Cubic — Data Link

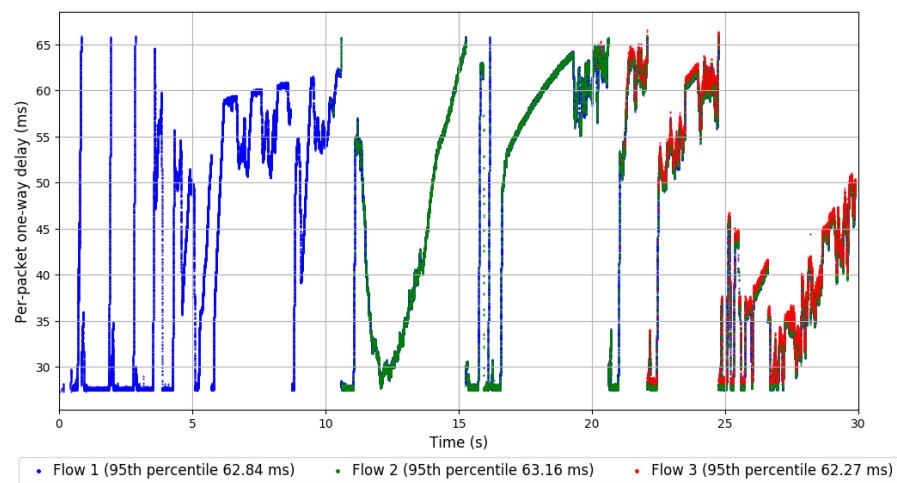
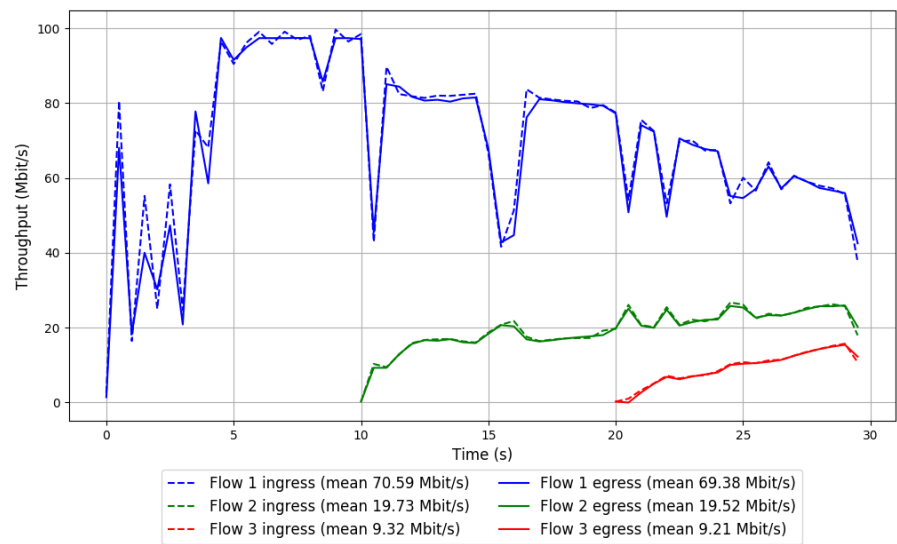


Run 7: Statistics of QUIC Cubic

Start at: 2018-03-21 07:04:19  
End at: 2018-03-21 07:04:49  
Local clock offset: -0.116 ms  
Remote clock offset: -2.829 ms

# Below is generated by plot.py at 2018-03-21 09:21:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 85.33 Mbit/s  
95th percentile per-packet one-way delay: 62.885 ms  
Loss rate: 1.56%  
-- Flow 1:  
Average throughput: 69.38 Mbit/s  
95th percentile per-packet one-way delay: 62.840 ms  
Loss rate: 1.65%  
-- Flow 2:  
Average throughput: 19.52 Mbit/s  
95th percentile per-packet one-way delay: 63.161 ms  
Loss rate: 1.10%  
-- Flow 3:  
Average throughput: 9.21 Mbit/s  
95th percentile per-packet one-way delay: 62.266 ms  
Loss rate: 1.40%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-03-21 07:31:01

End at: 2018-03-21 07:31:31

Local clock offset: -0.435 ms

Remote clock offset: -2.27 ms

# Below is generated by plot.py at 2018-03-21 09:21:12

# Datalink statistics

-- Total of 3 flows:

Average throughput: 87.53 Mbit/s

95th percentile per-packet one-way delay: 65.730 ms

Loss rate: 2.76%

-- Flow 1:

Average throughput: 52.70 Mbit/s

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

Loss rate: 2.21%

-- Flow 2:

Average throughput: 46.87 Mbit/s

95th percentile per-packet one-way delay: 66.160 ms

Loss rate: 3.84%

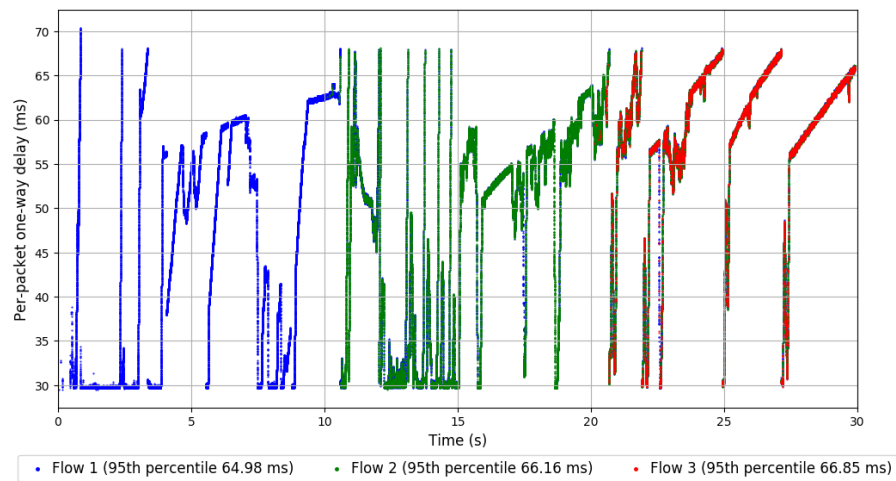
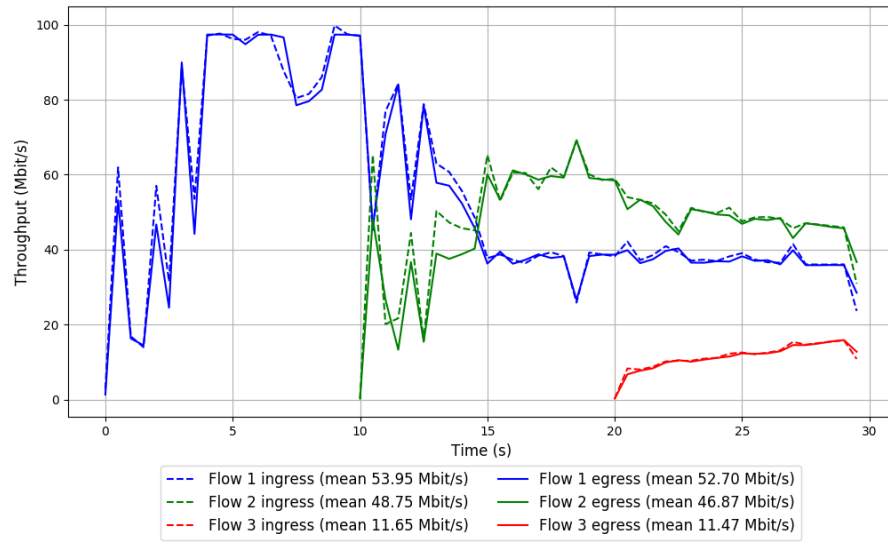
-- Flow 3:

Average throughput: 11.47 Mbit/s

95th percentile per-packet one-way delay: 66.847 ms

Loss rate: 1.45%

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



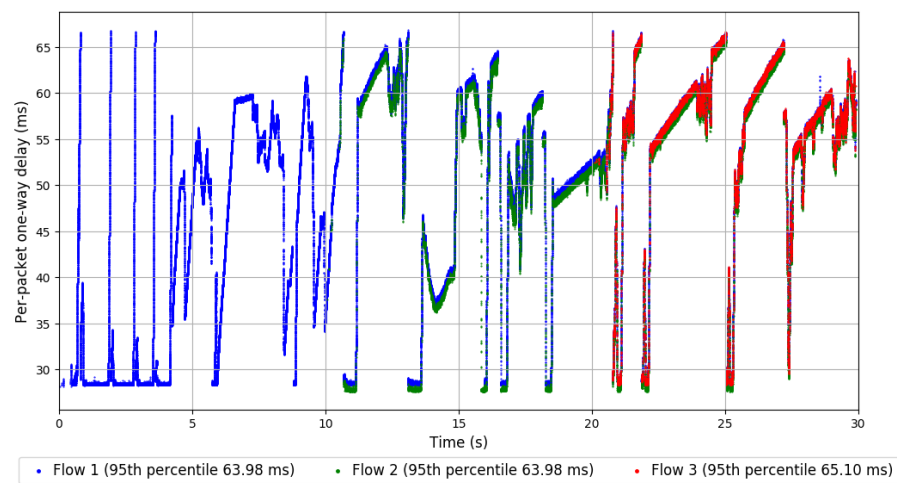
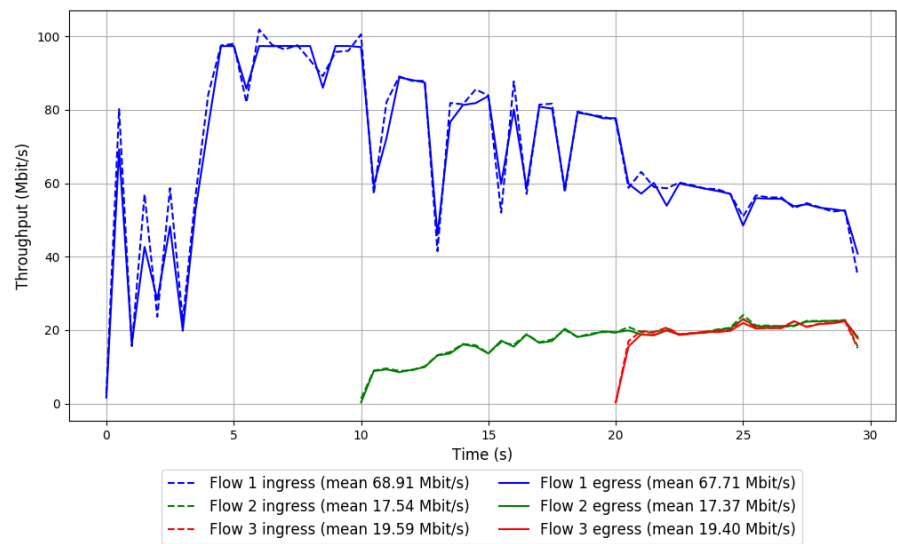
Run 9: Statistics of QUIC Cubic

Start at: 2018-03-21 07:58:33  
End at: 2018-03-21 07:59:03  
Local clock offset: -0.599 ms  
Remote clock offset: -1.266 ms

# Below is generated by plot.py at 2018-03-21 09:21:15  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 85.61 Mbit/s  
95th percentile per-packet one-way delay: 64.109 ms  
Loss rate: 1.48%  
-- Flow 1:  
Average throughput: 67.71 Mbit/s  
95th percentile per-packet one-way delay: 63.984 ms  
Loss rate: 1.64%  
-- Flow 2:  
Average throughput: 17.37 Mbit/s  
95th percentile per-packet one-way delay: 63.984 ms  
Loss rate: 0.88%  
-- Flow 3:  
Average throughput: 19.40 Mbit/s  
95th percentile per-packet one-way delay: 65.096 ms  
Loss rate: 0.93%



Run 9: Report of QUIC Cubic — Data Link

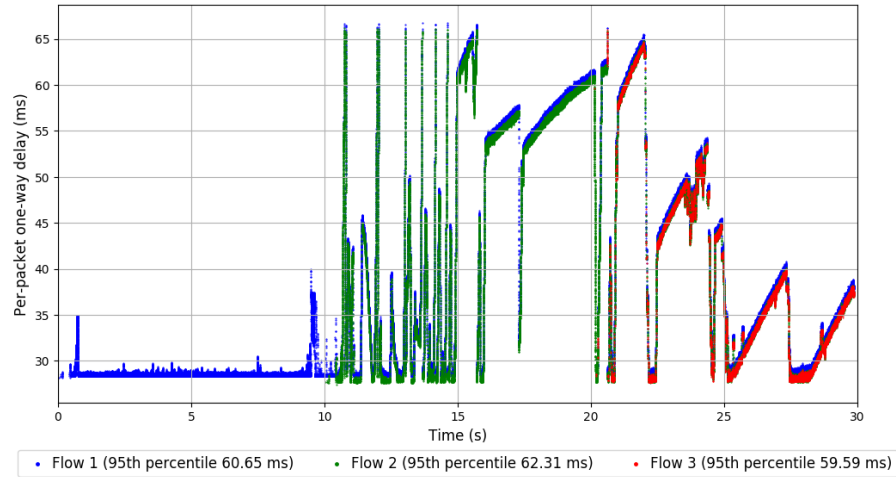
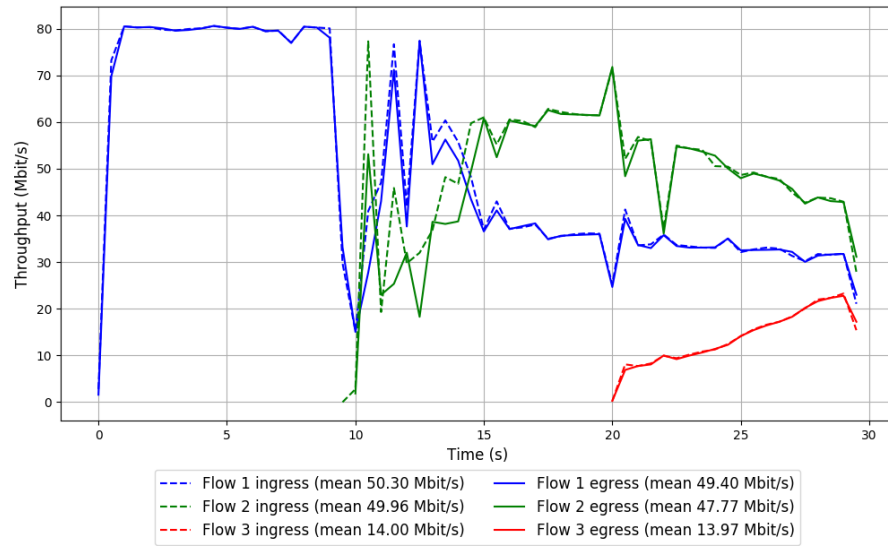


Run 10: Statistics of QUIC Cubic

Start at: 2018-03-21 08:24:51  
End at: 2018-03-21 08:25:21  
Local clock offset: -0.581 ms  
Remote clock offset: -2.153 ms

# Below is generated by plot.py at 2018-03-21 09:21:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 85.73 Mbit/s  
95th percentile per-packet one-way delay: 61.577 ms  
Loss rate: 2.65%  
-- Flow 1:  
Average throughput: 49.40 Mbit/s  
95th percentile per-packet one-way delay: 60.645 ms  
Loss rate: 1.74%  
-- Flow 2:  
Average throughput: 47.77 Mbit/s  
95th percentile per-packet one-way delay: 62.306 ms  
Loss rate: 4.34%  
-- Flow 3:  
Average throughput: 13.97 Mbit/s  
95th percentile per-packet one-way delay: 59.595 ms  
Loss rate: 0.46%

# Run 10: Report of QUIC Cubic — Data Link

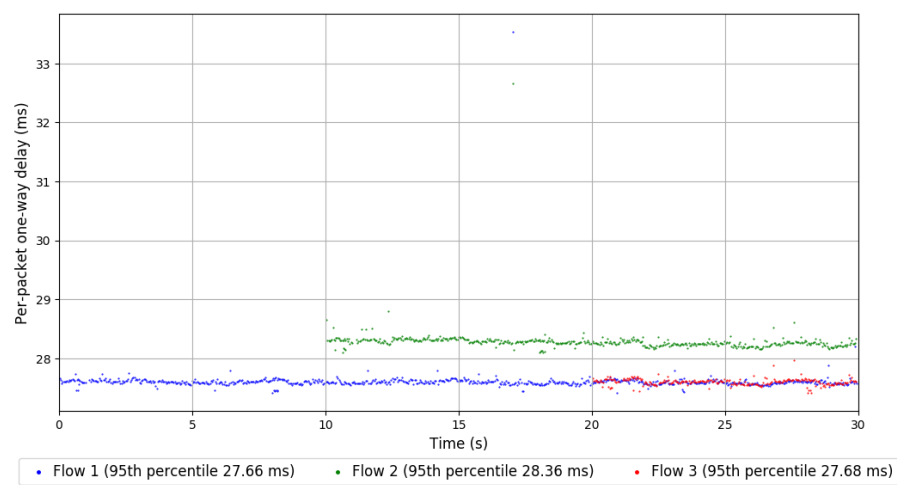
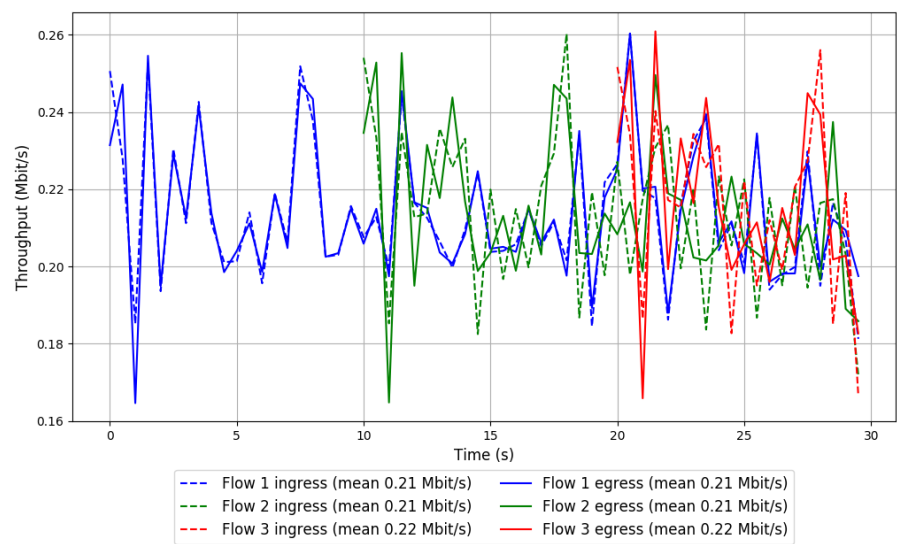


Run 1: Statistics of SReAM

Start at: 2018-03-21 04:07:48  
End at: 2018-03-21 04:08:18  
Local clock offset: 0.17 ms  
Remote clock offset: -5.317 ms

# Below is generated by plot.py at 2018-03-21 09:21:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 28.327 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 27.657 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 28.356 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 27.678 ms  
Loss rate: 0.00%

Run 1: Report of SReAM — Data Link

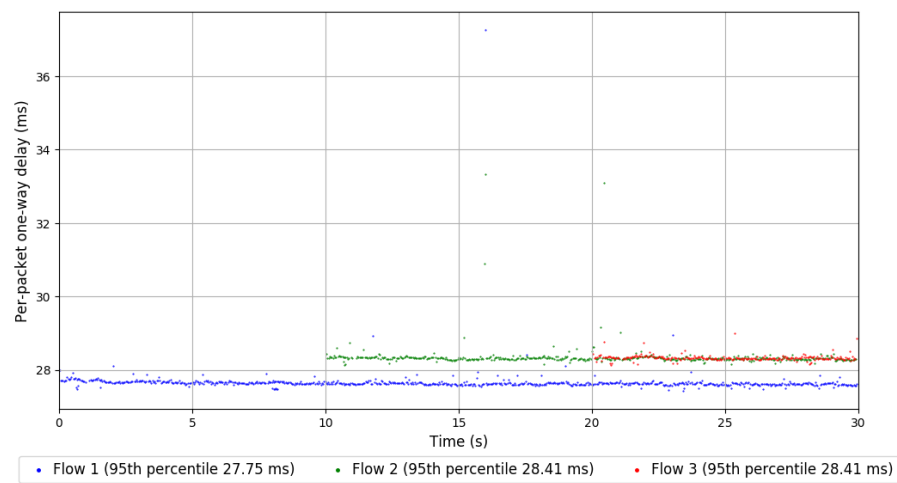
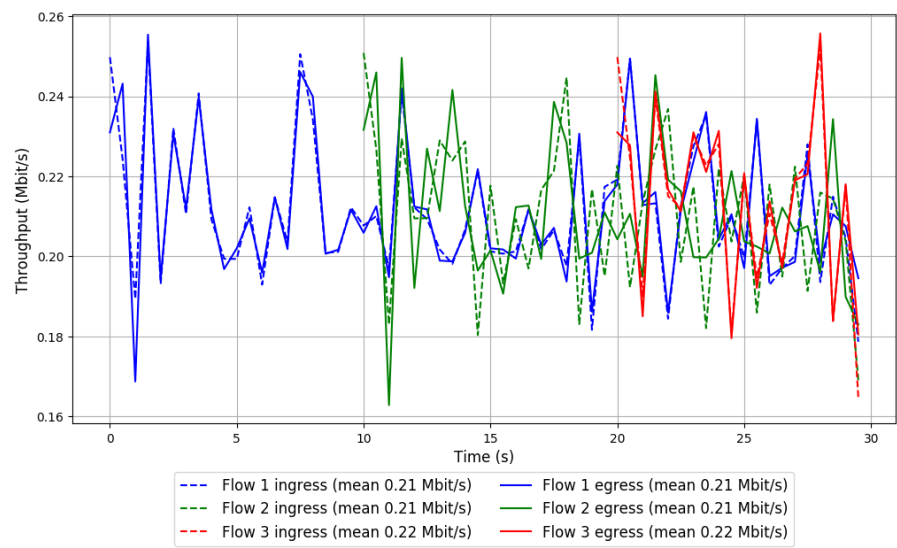


Run 2: Statistics of SReAM

Start at: 2018-03-21 04:39:04  
End at: 2018-03-21 04:39:34  
Local clock offset: -0.256 ms  
Remote clock offset: -3.324 ms

# Below is generated by plot.py at 2018-03-21 09:21:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.42 Mbit/s  
95th percentile per-packet one-way delay: 28.377 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 27.746 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 28.412 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 28.411 ms  
Loss rate: 0.00%

Run 2: Report of SReAM — Data Link



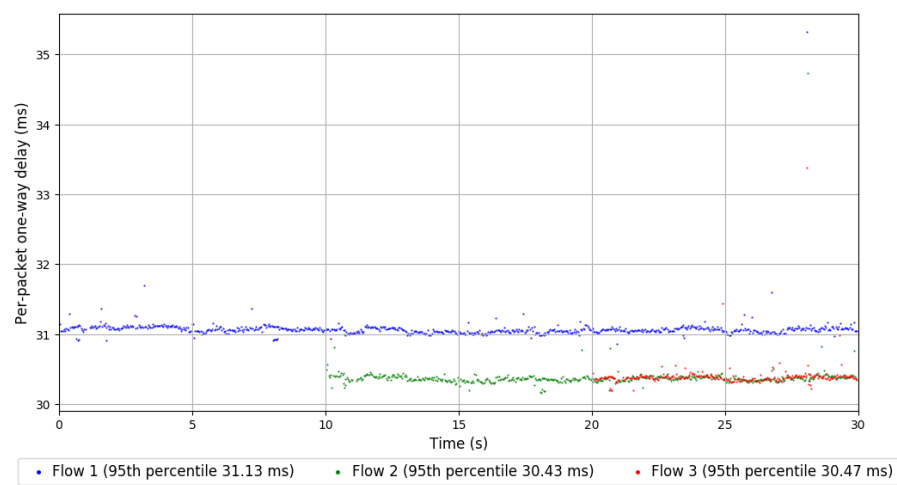
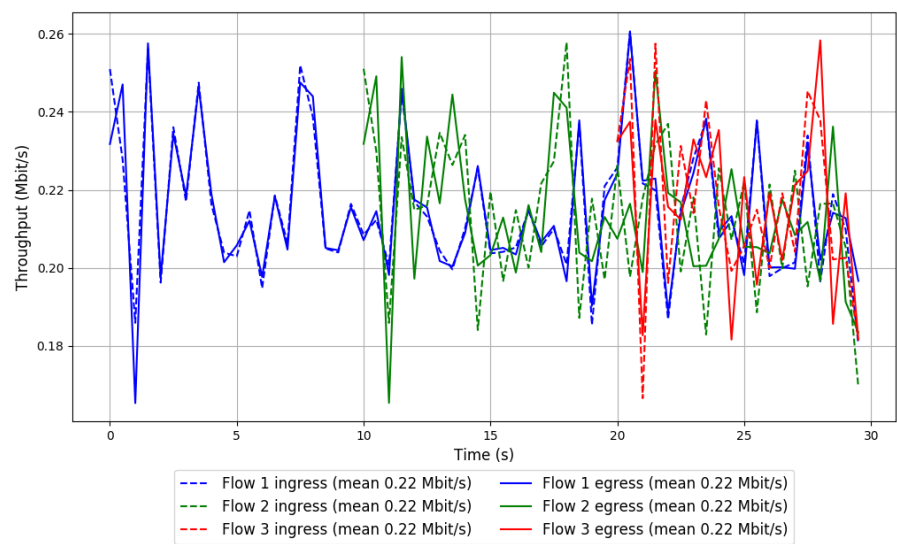
Run 3: Statistics of SReAM

Start at: 2018-03-21 05:07:58  
End at: 2018-03-21 05:08:28  
Local clock offset: -0.495 ms  
Remote clock offset: -0.474 ms

# Below is generated by plot.py at 2018-03-21 09:21:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 31.114 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 31.130 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 30.431 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 30.466 ms  
Loss rate: 0.00%



Run 3: Report of SReAM — Data Link

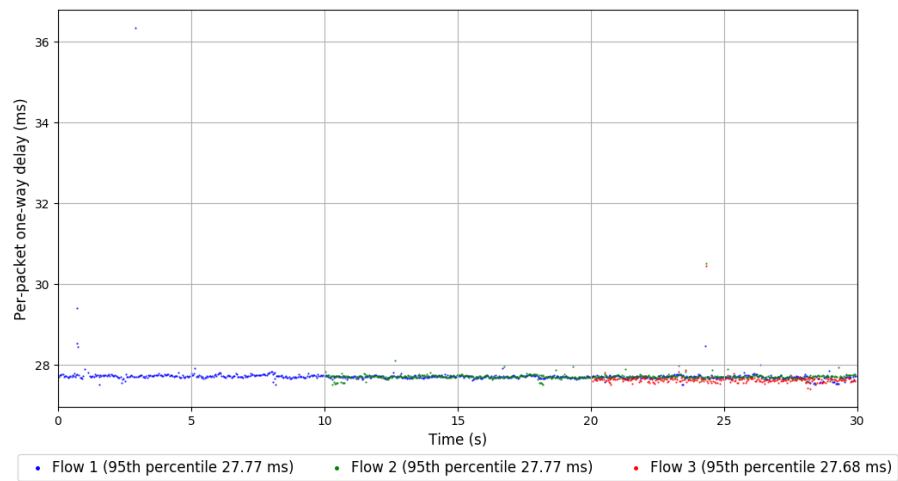
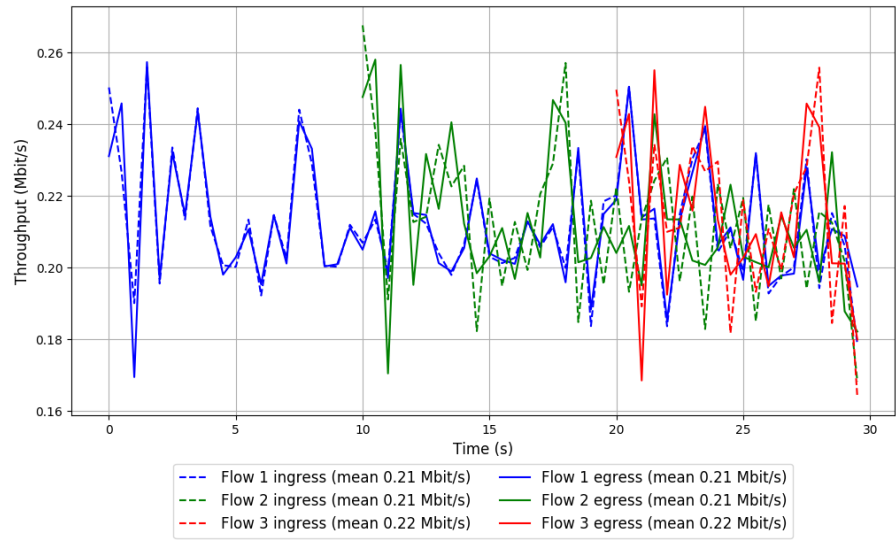


Run 4: Statistics of SReAM

Start at: 2018-03-21 05:37:09  
End at: 2018-03-21 05:37:39  
Local clock offset: -0.072 ms  
Remote clock offset: -3.352 ms

```
# Below is generated by plot.py at 2018-03-21 09:21:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 27.767 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 27.774 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 27.765 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 27.685 ms
Loss rate: 0.00%
```

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



Run 5: Statistics of SReAM

Start at: 2018-03-21 06:07:29

End at: 2018-03-21 06:07:59

Local clock offset: -0.165 ms

Remote clock offset: -4.13 ms

# Below is generated by plot.py at 2018-03-21 09:21:22

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 28.451 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 27.783 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 28.492 ms

Loss rate: 0.00%

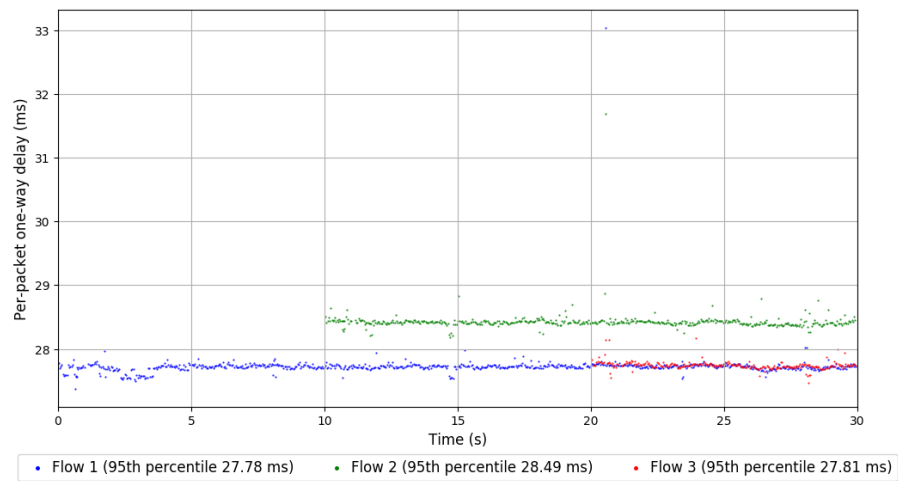
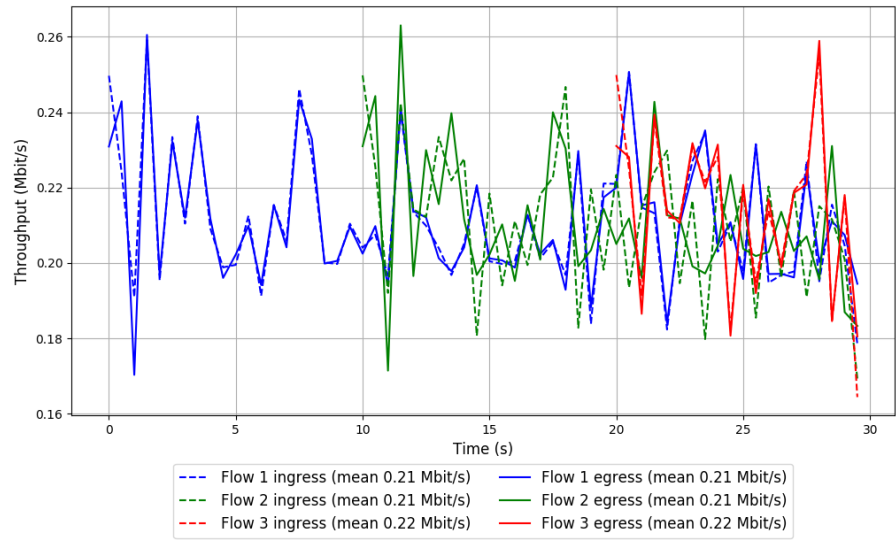
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 27.810 ms

Loss rate: 0.00%

## Run 5: Report of SReAM — Data Link

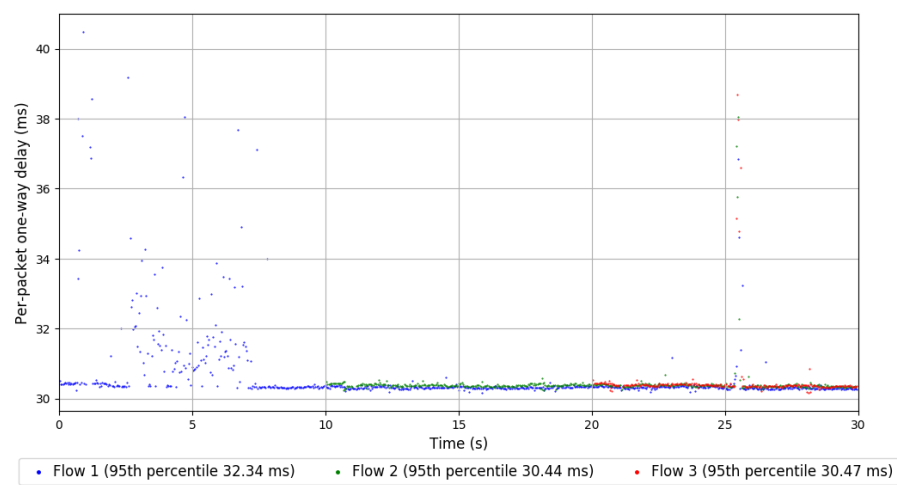
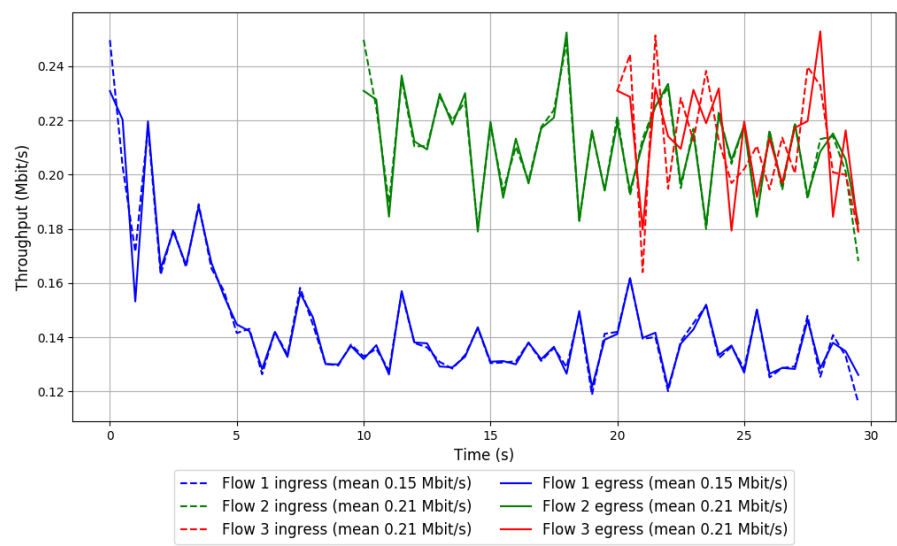


Run 6: Statistics of SReAM

Start at: 2018-03-21 06:35:14  
End at: 2018-03-21 06:35:44  
Local clock offset: -0.239 ms  
Remote clock offset: -1.969 ms

# Below is generated by plot.py at 2018-03-21 09:21:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.36 Mbit/s  
95th percentile per-packet one-way delay: 31.402 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 0.15 Mbit/s  
95th percentile per-packet one-way delay: 32.343 ms  
Loss rate: 0.02%  
-- Flow 2:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 30.441 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 30.473 ms  
Loss rate: 0.00%

Run 6: Report of SReAM — Data Link



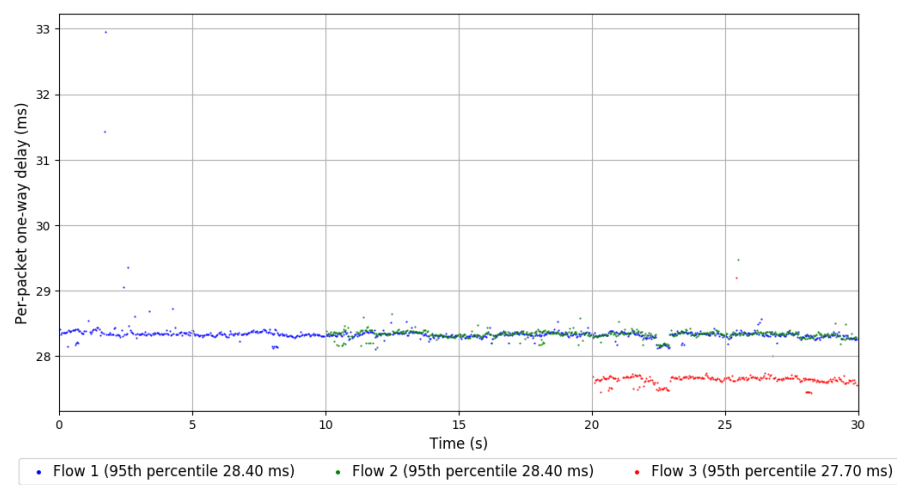
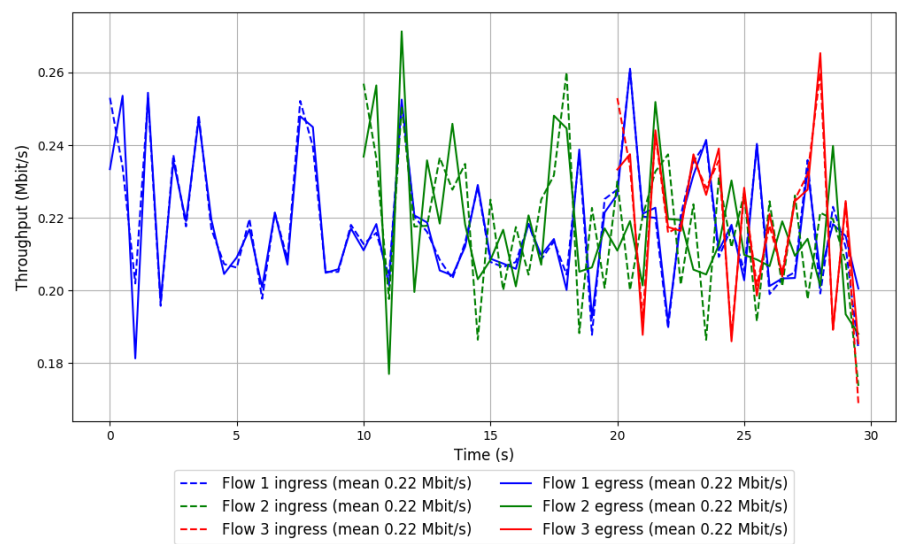
Run 7: Statistics of SReAM

Start at: 2018-03-21 07:03:02  
End at: 2018-03-21 07:03:32  
Local clock offset: -0.1 ms  
Remote clock offset: -2.873 ms

# Below is generated by plot.py at 2018-03-21 09:21:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.44 Mbit/s  
95th percentile per-packet one-way delay: 28.397 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 28.400 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 28.400 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 27.704 ms  
Loss rate: 0.00%



Run 7: Report of SReAM — Data Link

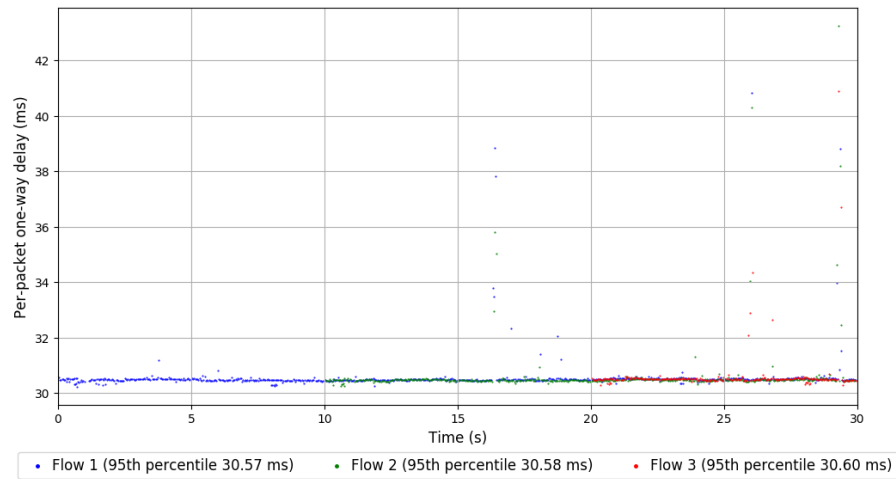
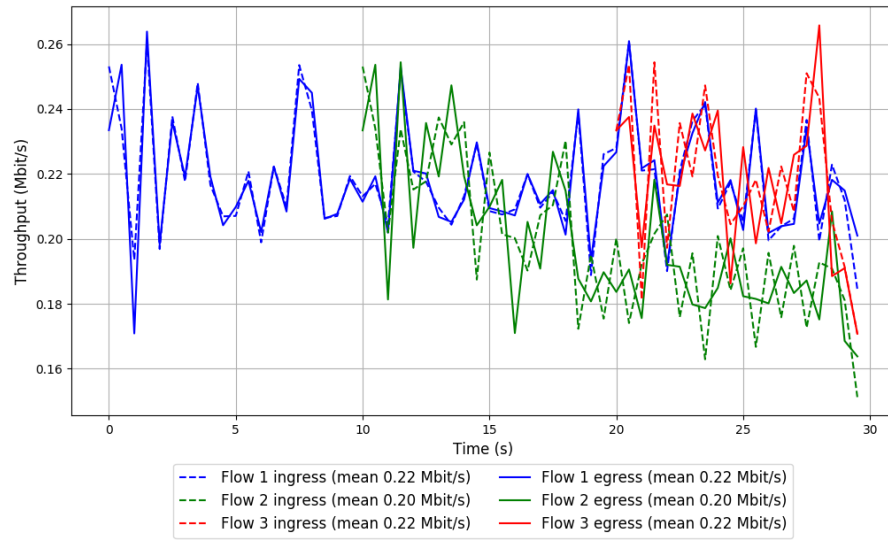


Run 8: Statistics of SReAM

Start at: 2018-03-21 07:29:44  
End at: 2018-03-21 07:30:14  
Local clock offset: -0.304 ms  
Remote clock offset: -2.142 ms

# Below is generated by plot.py at 2018-03-21 09:21:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.42 Mbit/s  
95th percentile per-packet one-way delay: 30.577 ms  
Loss rate: 0.12%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 30.566 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.20 Mbit/s  
95th percentile per-packet one-way delay: 30.577 ms  
Loss rate: 0.18%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 30.597 ms  
Loss rate: 0.40%

## Run 8: Report of SReAM — Data Link

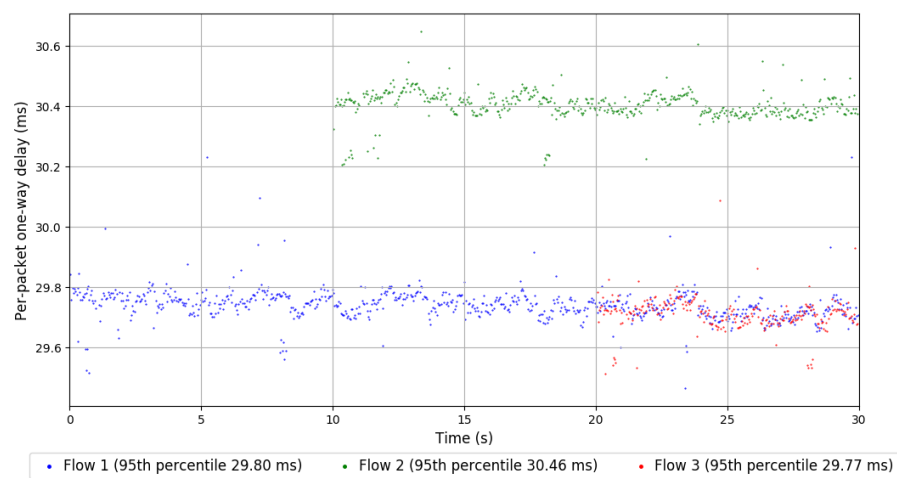
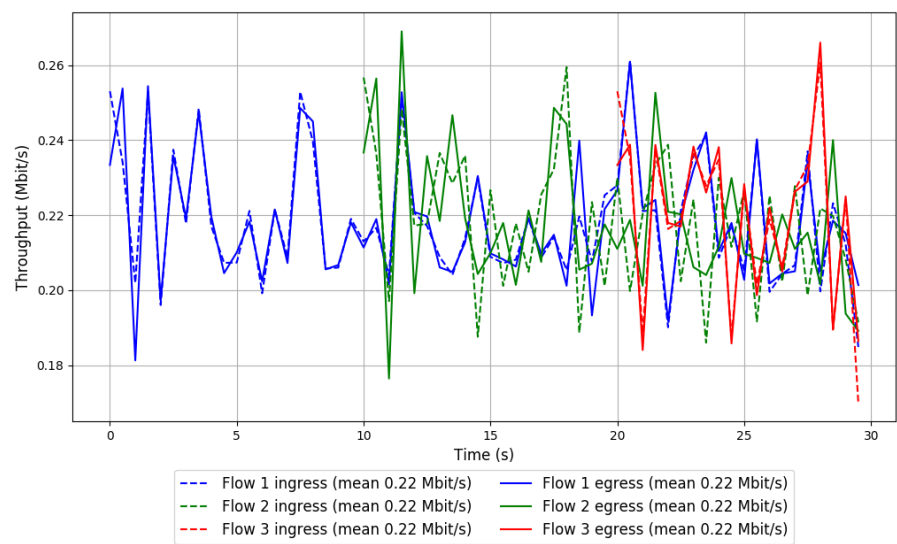


Run 9: Statistics of SReAM

Start at: 2018-03-21 07:57:15  
End at: 2018-03-21 07:57:45  
Local clock offset: -0.522 ms  
Remote clock offset: 0.658 ms

```
# Below is generated by plot.py at 2018-03-21 09:21:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 30.442 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 29.798 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 30.464 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 29.772 ms
Loss rate: 0.00%
```

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-03-21 08:23:33

End at: 2018-03-21 08:24:03

Local clock offset: -0.657 ms

Remote clock offset: 0.488 ms

# Below is generated by plot.py at 2018-03-21 09:21:22

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 31.147 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 31.135 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 31.153 ms

Loss rate: 0.00%

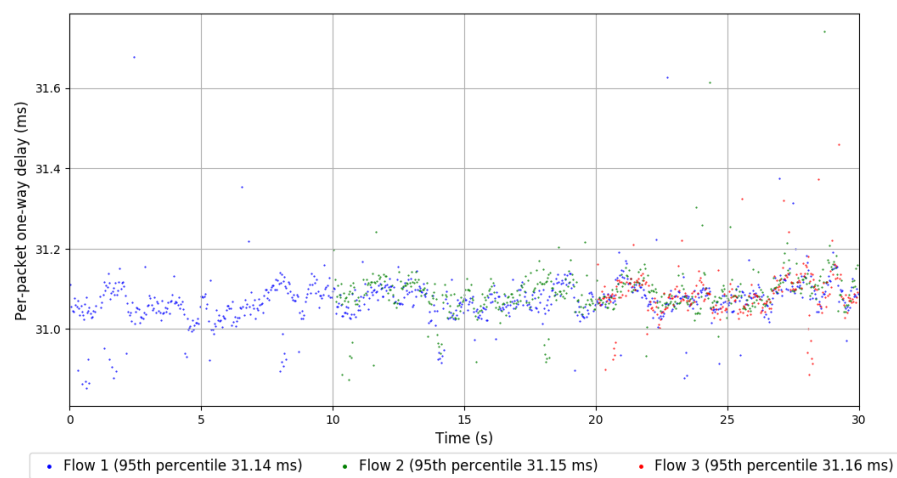
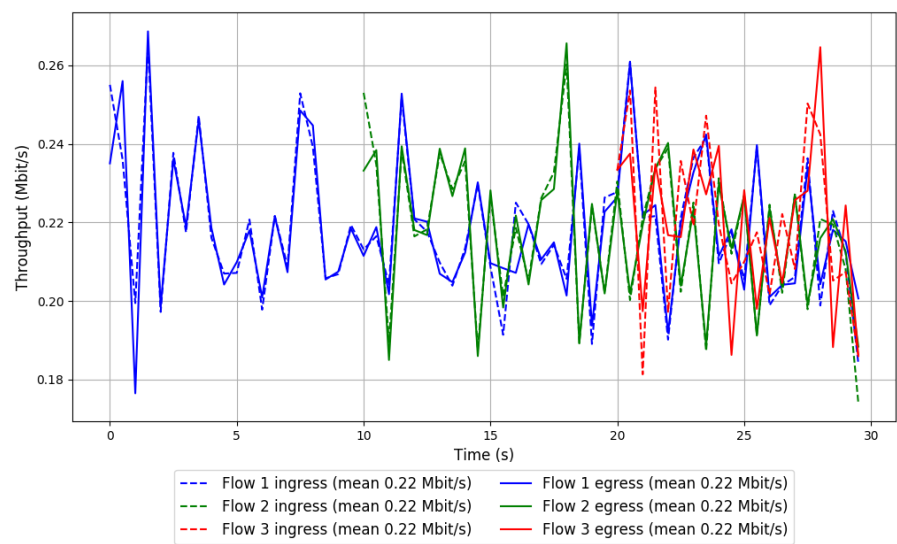
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 31.158 ms

Loss rate: 0.00%

Run 10: Report of SReAM — Data Link



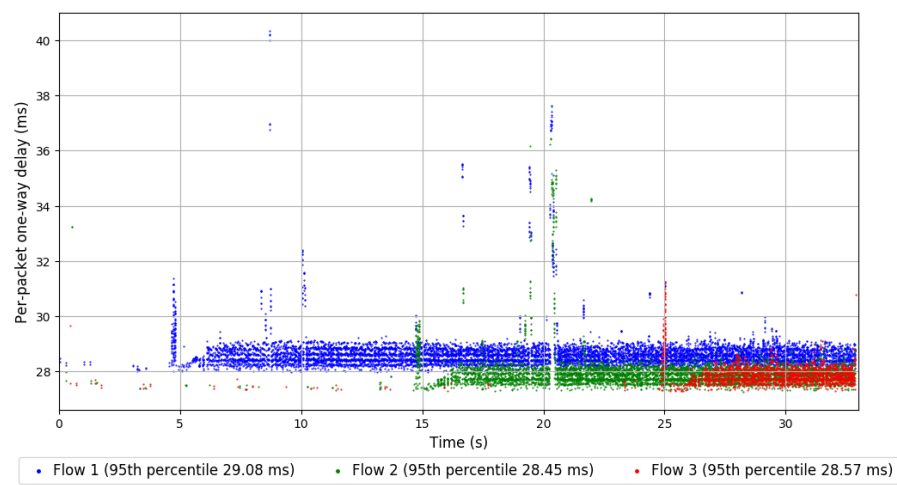
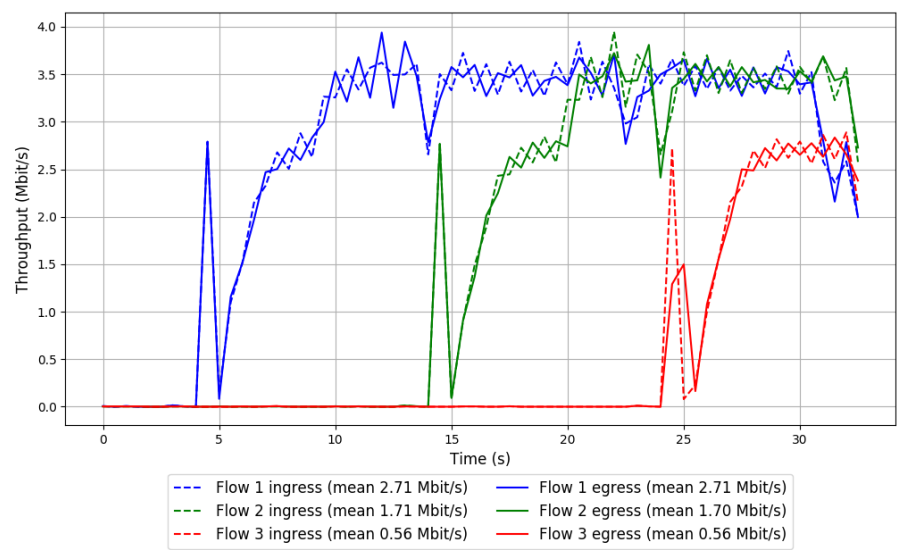
Run 1: Statistics of WebRTC media

Start at: 2018-03-21 04:00:12  
End at: 2018-03-21 04:00:42  
Local clock offset: 0.032 ms  
Remote clock offset: -5.987 ms

# Below is generated by plot.py at 2018-03-21 09:21:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 4.95 Mbit/s  
95th percentile per-packet one-way delay: 29.034 ms  
Loss rate: 0.14%  
-- Flow 1:  
Average throughput: 2.71 Mbit/s  
95th percentile per-packet one-way delay: 29.077 ms  
Loss rate: 0.13%  
-- Flow 2:  
Average throughput: 1.70 Mbit/s  
95th percentile per-packet one-way delay: 28.447 ms  
Loss rate: 0.20%  
-- Flow 3:  
Average throughput: 0.56 Mbit/s  
95th percentile per-packet one-way delay: 28.567 ms  
Loss rate: 0.00%



Run 1: Report of WebRTC media — Data Link

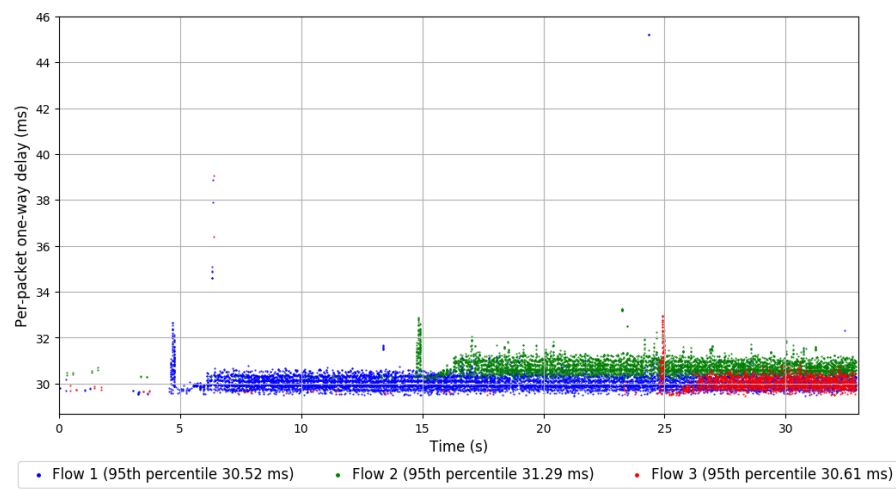
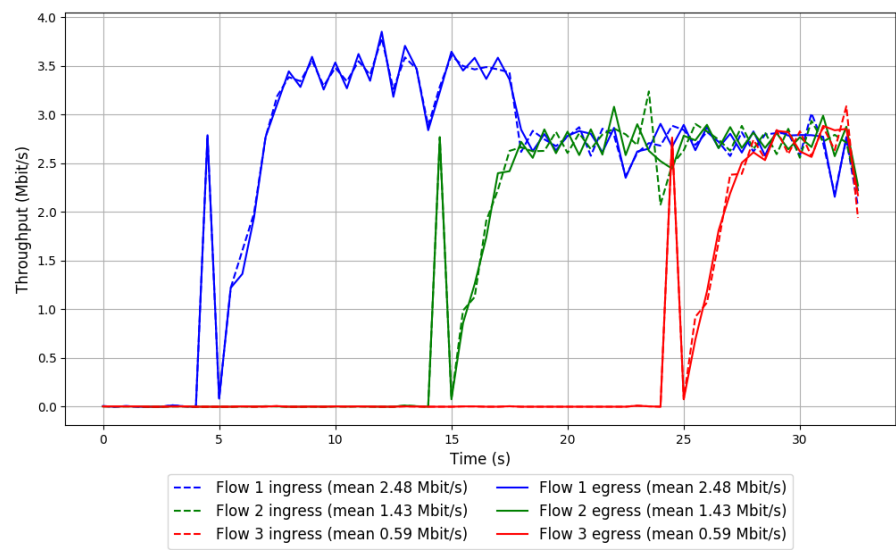


Run 2: Statistics of WebRTC media

Start at: 2018-03-21 04:32:48  
End at: 2018-03-21 04:33:18  
Local clock offset: -0.064 ms  
Remote clock offset: -1.518 ms

# Below is generated by plot.py at 2018-03-21 09:21:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 4.47 Mbit/s  
95th percentile per-packet one-way delay: 31.067 ms  
Loss rate: 0.03%  
-- Flow 1:  
Average throughput: 2.48 Mbit/s  
95th percentile per-packet one-way delay: 30.525 ms  
Loss rate: 0.06%  
-- Flow 2:  
Average throughput: 1.43 Mbit/s  
95th percentile per-packet one-way delay: 31.288 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.59 Mbit/s  
95th percentile per-packet one-way delay: 30.612 ms  
Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link

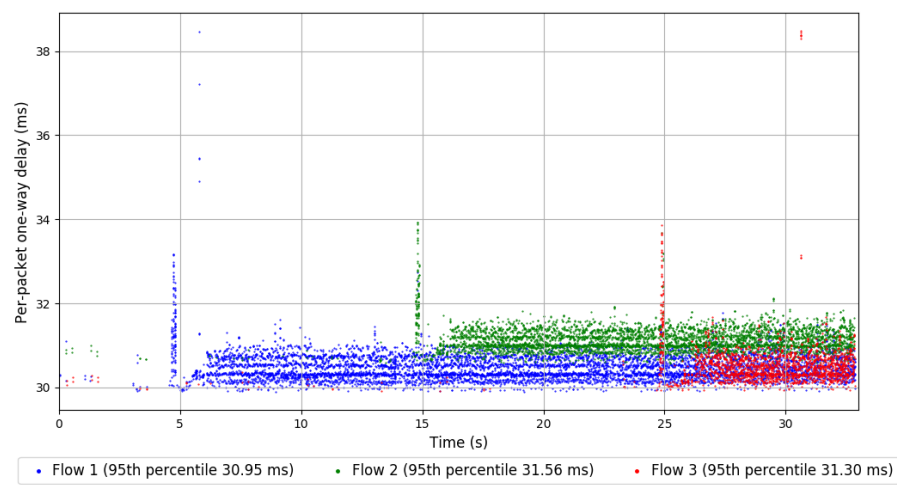
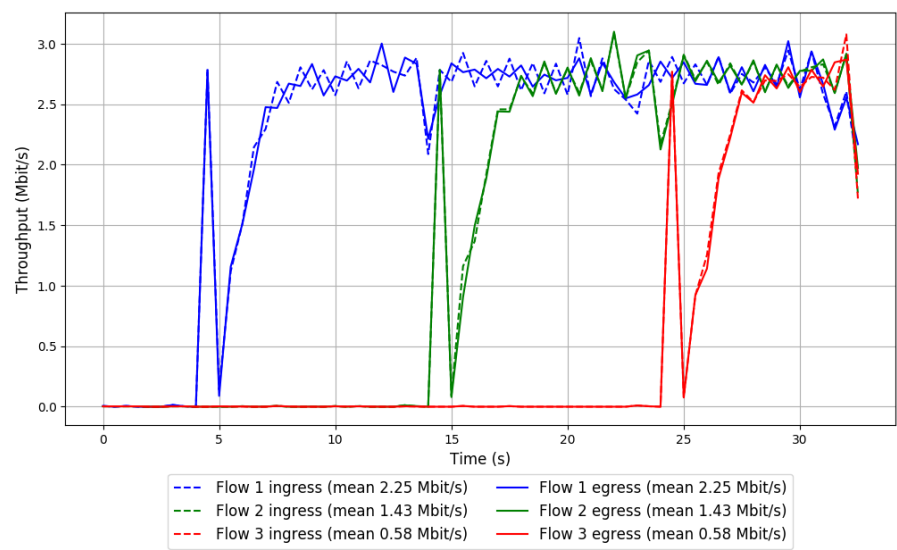


Run 3: Statistics of WebRTC media

Start at: 2018-03-21 05:00:37  
End at: 2018-03-21 05:01:07  
Local clock offset: -0.592 ms  
Remote clock offset: -0.675 ms

# Below is generated by plot.py at 2018-03-21 09:21:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 4.25 Mbit/s  
95th percentile per-packet one-way delay: 31.430 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 2.25 Mbit/s  
95th percentile per-packet one-way delay: 30.950 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 1.43 Mbit/s  
95th percentile per-packet one-way delay: 31.563 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.58 Mbit/s  
95th percentile per-packet one-way delay: 31.300 ms  
Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link

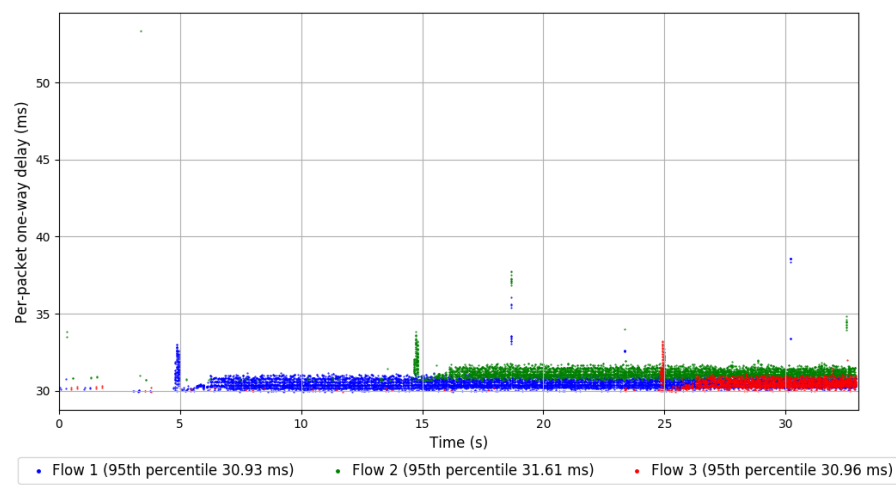
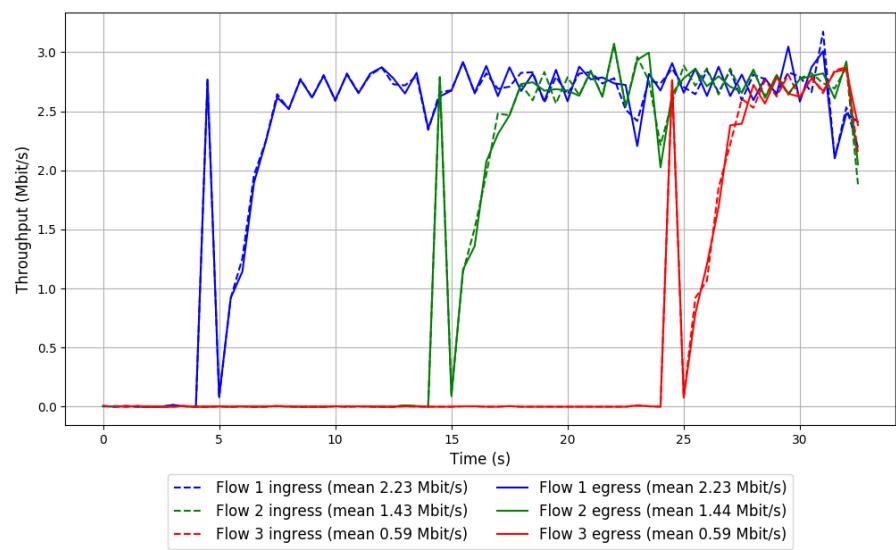


Run 4: Statistics of WebRTC media

Start at: 2018-03-21 05:30:57  
End at: 2018-03-21 05:31:27  
Local clock offset: -0.114 ms  
Remote clock offset: -0.603 ms

# Below is generated by plot.py at 2018-03-21 09:21:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 4.24 Mbit/s  
95th percentile per-packet one-way delay: 31.469 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 2.23 Mbit/s  
95th percentile per-packet one-way delay: 30.926 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 1.44 Mbit/s  
95th percentile per-packet one-way delay: 31.613 ms  
Loss rate: 0.02%  
-- Flow 3:  
Average throughput: 0.59 Mbit/s  
95th percentile per-packet one-way delay: 30.965 ms  
Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



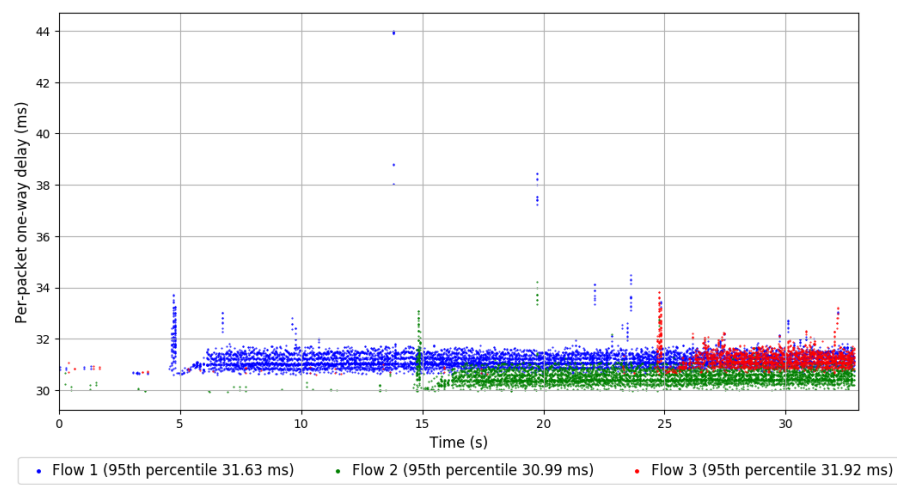
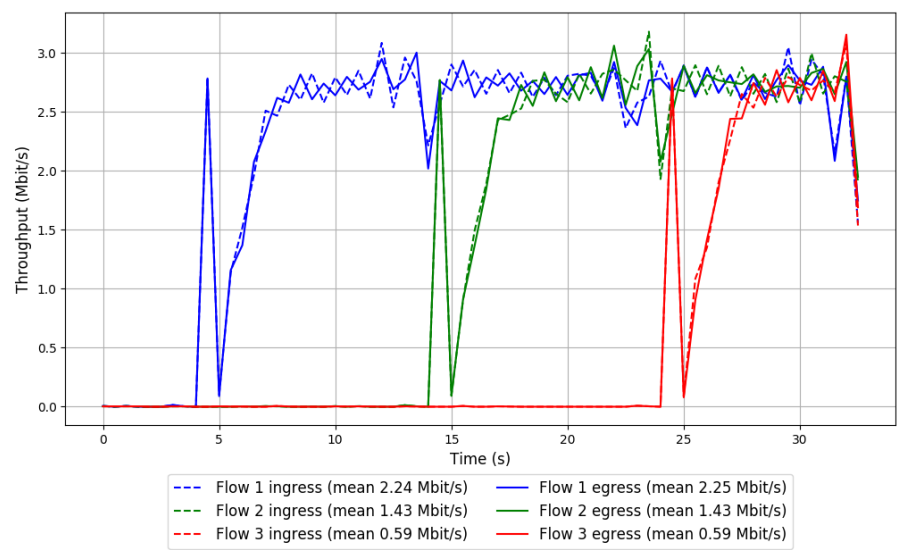
Run 5: Statistics of WebRTC media

Start at: 2018-03-21 06:01:19  
End at: 2018-03-21 06:01:49  
Local clock offset: -0.159 ms  
Remote clock offset: -1.035 ms

# Below is generated by plot.py at 2018-03-21 09:21:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 4.25 Mbit/s  
95th percentile per-packet one-way delay: 31.602 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 2.25 Mbit/s  
95th percentile per-packet one-way delay: 31.630 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 1.43 Mbit/s  
95th percentile per-packet one-way delay: 30.989 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.59 Mbit/s  
95th percentile per-packet one-way delay: 31.923 ms  
Loss rate: 0.00%



Run 5: Report of WebRTC media — Data Link

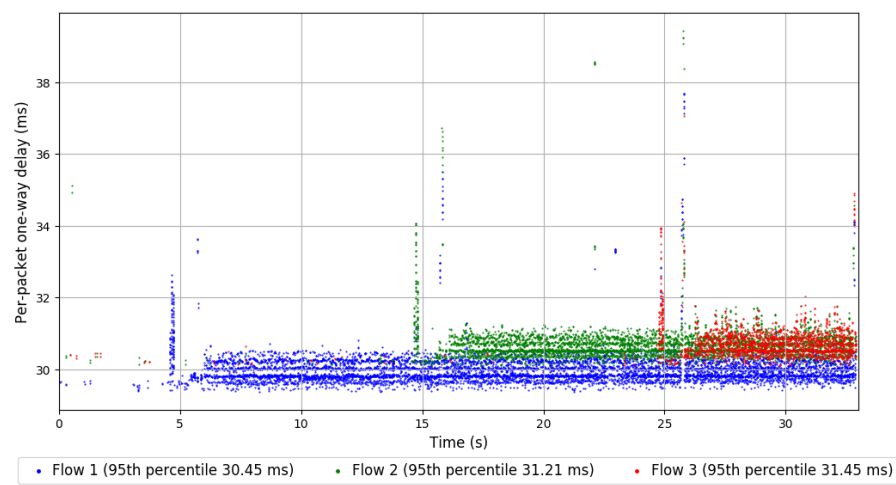
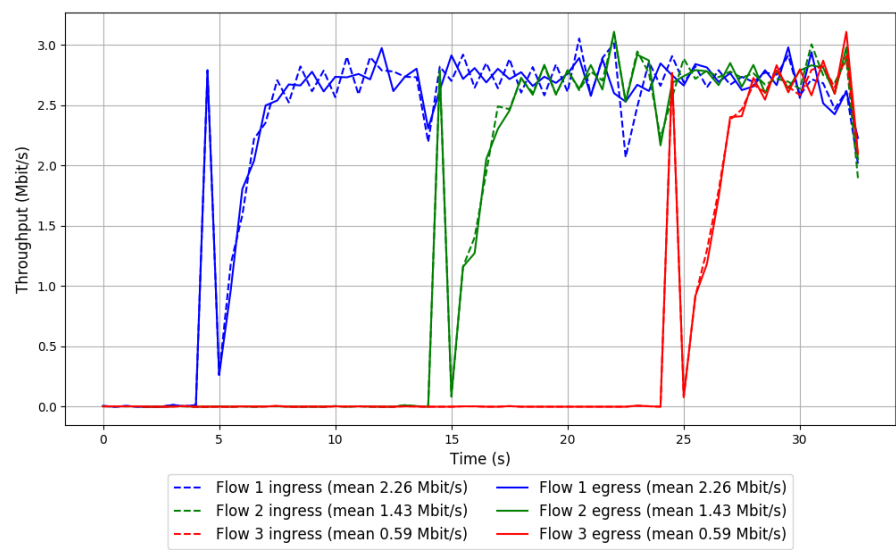


Run 6: Statistics of WebRTC media

Start at: 2018-03-21 06:29:28  
End at: 2018-03-21 06:29:58  
Local clock offset: -0.244 ms  
Remote clock offset: -2.396 ms

# Below is generated by plot.py at 2018-03-21 09:21:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 4.26 Mbit/s  
95th percentile per-packet one-way delay: 31.106 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 2.26 Mbit/s  
95th percentile per-packet one-way delay: 30.446 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 1.43 Mbit/s  
95th percentile per-packet one-way delay: 31.208 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.59 Mbit/s  
95th percentile per-packet one-way delay: 31.448 ms  
Loss rate: 0.05%

Run 6: Report of WebRTC media — Data Link

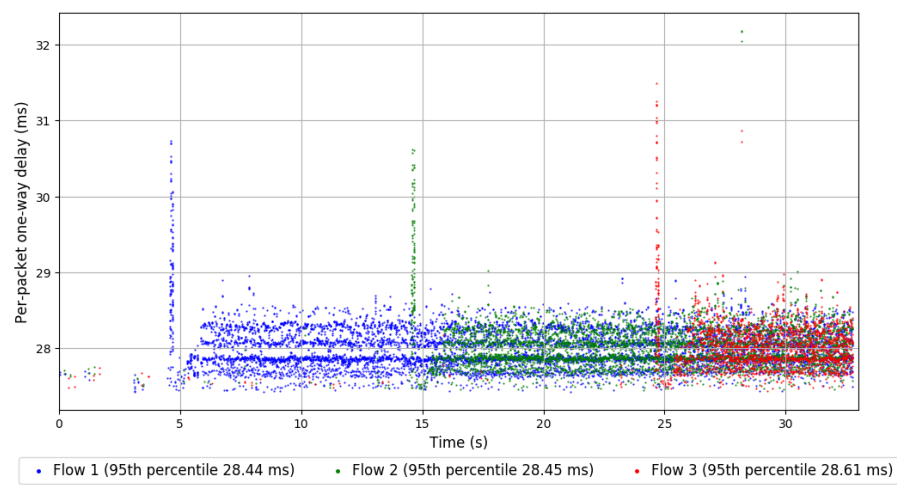
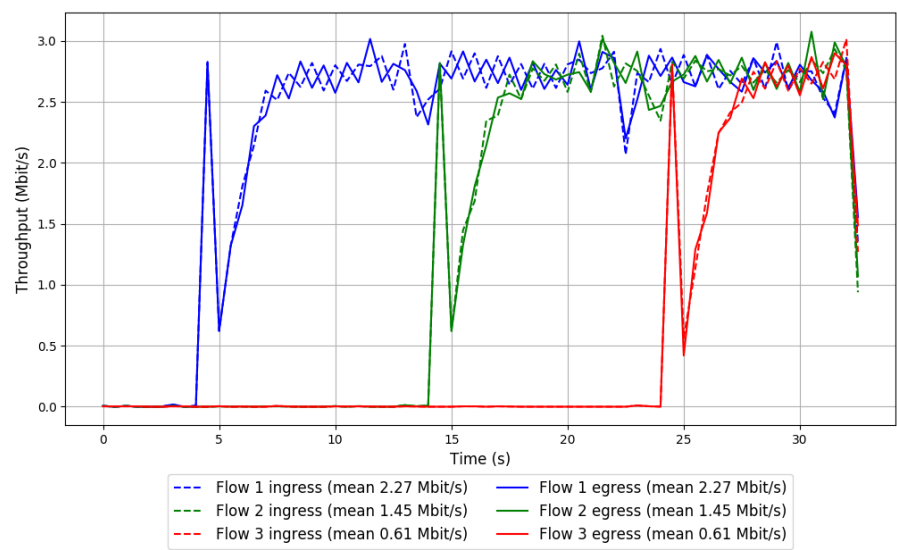


Run 7: Statistics of WebRTC media

Start at: 2018-03-21 06:57:34  
End at: 2018-03-21 06:58:04  
Local clock offset: -0.226 ms  
Remote clock offset: -2.896 ms

```
# Below is generated by plot.py at 2018-03-21 09:21:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.31 Mbit/s
95th percentile per-packet one-way delay: 28.455 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.27 Mbit/s
95th percentile per-packet one-way delay: 28.436 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.45 Mbit/s
95th percentile per-packet one-way delay: 28.451 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.61 Mbit/s
95th percentile per-packet one-way delay: 28.610 ms
Loss rate: 0.00%
```

Run 7: Report of WebRTC media — Data Link

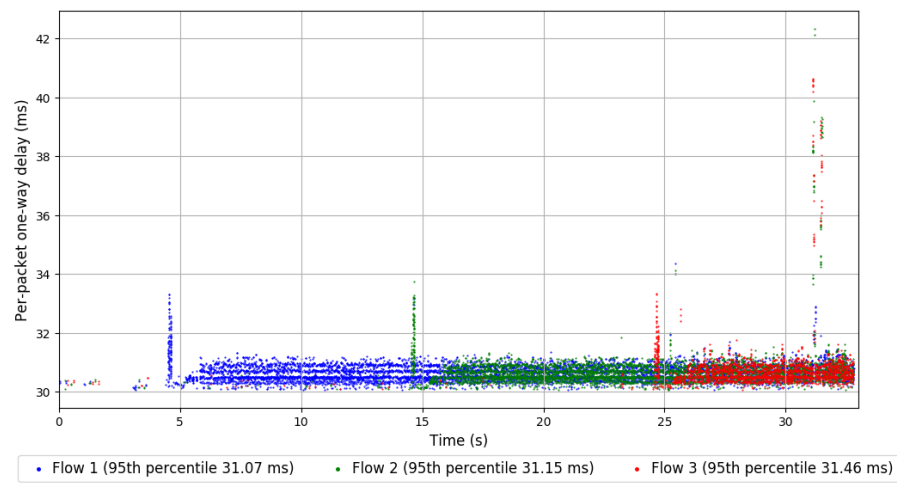
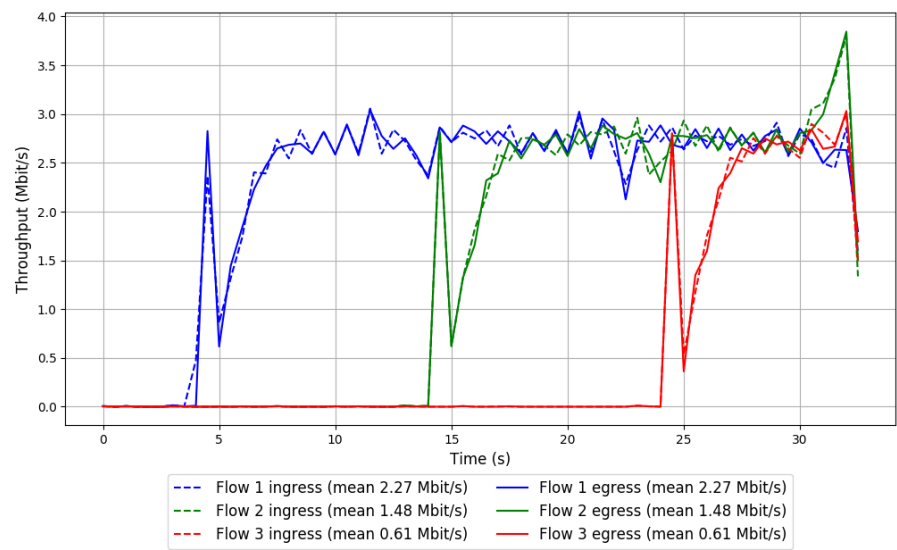


Run 8: Statistics of WebRTC media

Start at: 2018-03-21 07:23:56  
End at: 2018-03-21 07:24:26  
Local clock offset: -0.149 ms  
Remote clock offset: -1.945 ms

```
# Below is generated by plot.py at 2018-03-21 09:21:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.35 Mbit/s
95th percentile per-packet one-way delay: 31.124 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 2.27 Mbit/s
95th percentile per-packet one-way delay: 31.066 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.48 Mbit/s
95th percentile per-packet one-way delay: 31.147 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 0.61 Mbit/s
95th percentile per-packet one-way delay: 31.462 ms
Loss rate: 0.00%
```

Run 8: Report of WebRTC media — Data Link



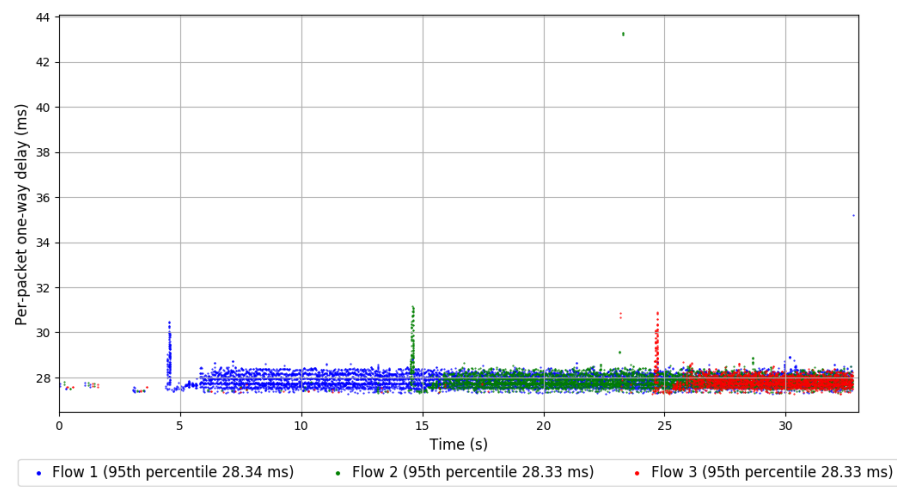
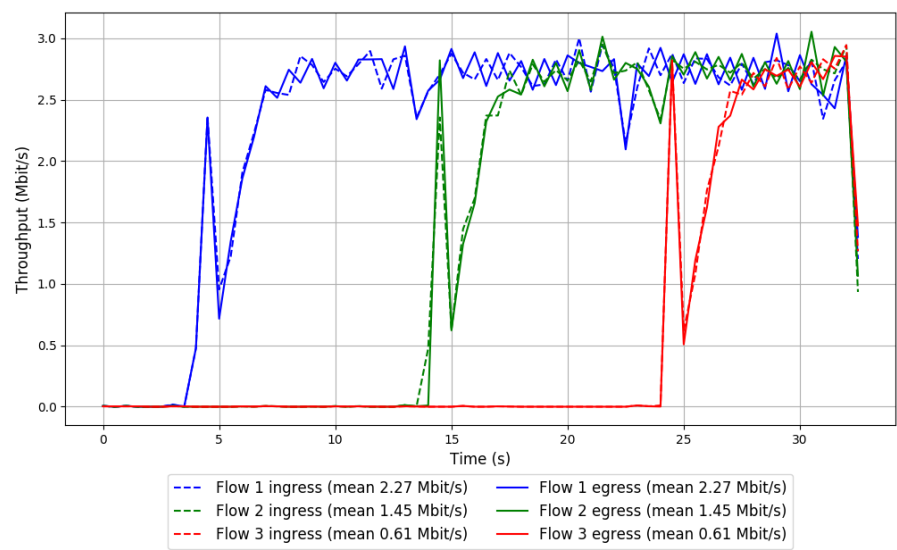
Run 9: Statistics of WebRTC media

Start at: 2018-03-21 07:51:10  
End at: 2018-03-21 07:51:40  
Local clock offset: -0.531 ms  
Remote clock offset: -2.003 ms

# Below is generated by plot.py at 2018-03-21 09:21:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 4.31 Mbit/s  
95th percentile per-packet one-way delay: 28.334 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 2.27 Mbit/s  
95th percentile per-packet one-way delay: 28.336 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 1.45 Mbit/s  
95th percentile per-packet one-way delay: 28.329 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.61 Mbit/s  
95th percentile per-packet one-way delay: 28.327 ms  
Loss rate: 0.00%



Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-03-21 08:17:43

End at: 2018-03-21 08:18:13

Local clock offset: -0.542 ms

Remote clock offset: 0.835 ms

# Below is generated by plot.py at 2018-03-21 09:21:22

# Datalink statistics

-- Total of 3 flows:

Average throughput: 4.30 Mbit/s

95th percentile per-packet one-way delay: 31.168 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 30.523 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.45 Mbit/s

95th percentile per-packet one-way delay: 31.239 ms

Loss rate: 0.02%

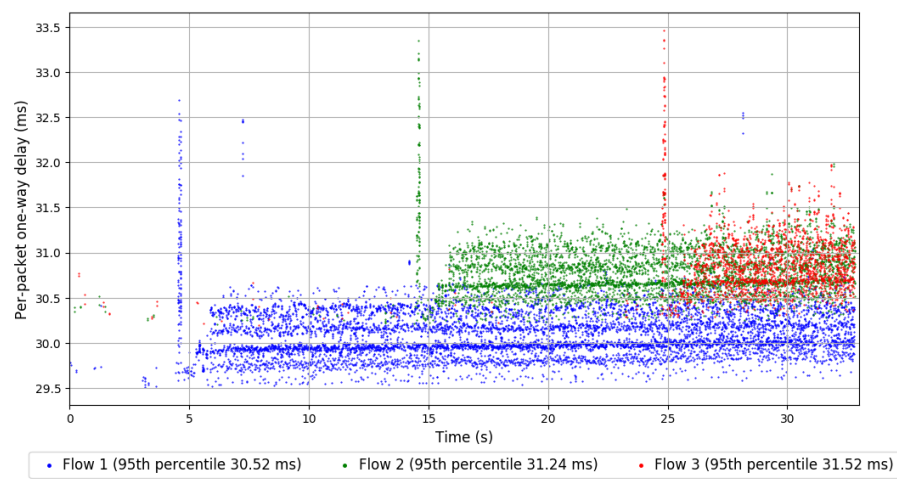
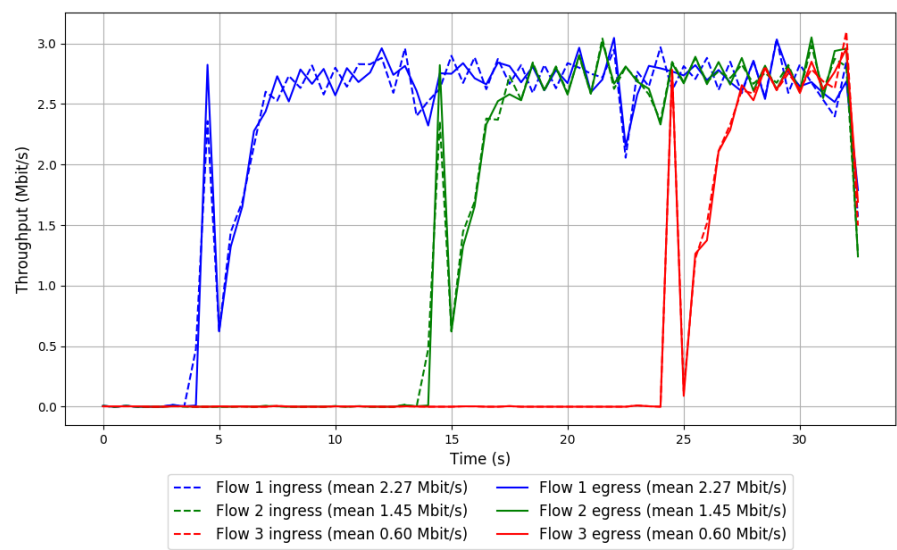
-- Flow 3:

Average throughput: 0.60 Mbit/s

95th percentile per-packet one-way delay: 31.518 ms

Loss rate: 0.05%

Run 10: Report of WebRTC media — Data Link

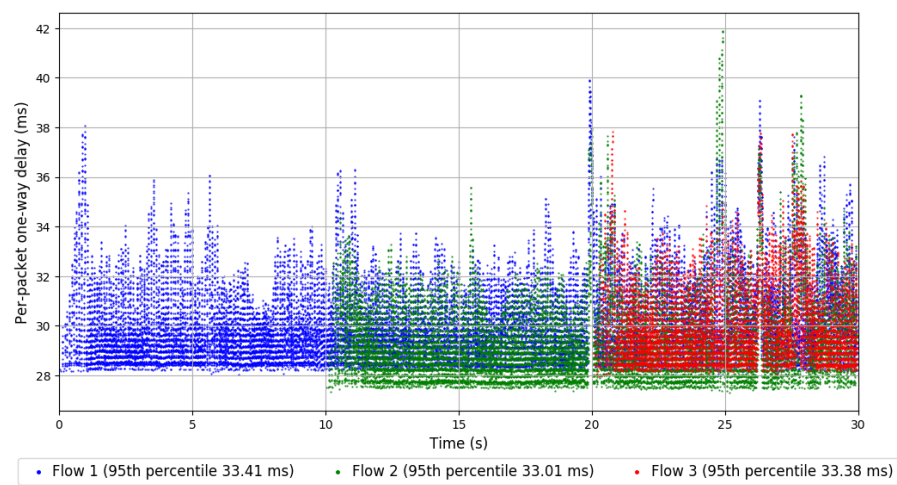
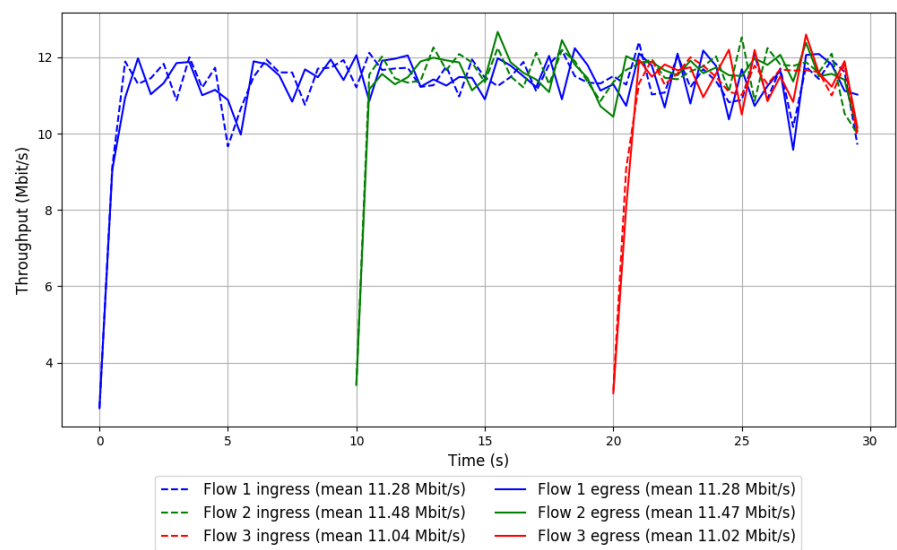


Run 1: Statistics of Sprout

Start at: 2018-03-21 04:29:40  
End at: 2018-03-21 04:30:10  
Local clock offset: 0.252 ms  
Remote clock offset: -3.821 ms

# Below is generated by plot.py at 2018-03-21 09:21:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 22.54 Mbit/s  
95th percentile per-packet one-way delay: 33.290 ms  
Loss rate: 0.10%  
-- Flow 1:  
Average throughput: 11.28 Mbit/s  
95th percentile per-packet one-way delay: 33.413 ms  
Loss rate: 0.07%  
-- Flow 2:  
Average throughput: 11.47 Mbit/s  
95th percentile per-packet one-way delay: 33.008 ms  
Loss rate: 0.12%  
-- Flow 3:  
Average throughput: 11.02 Mbit/s  
95th percentile per-packet one-way delay: 33.383 ms  
Loss rate: 0.14%

Run 1: Report of Sprout — Data Link

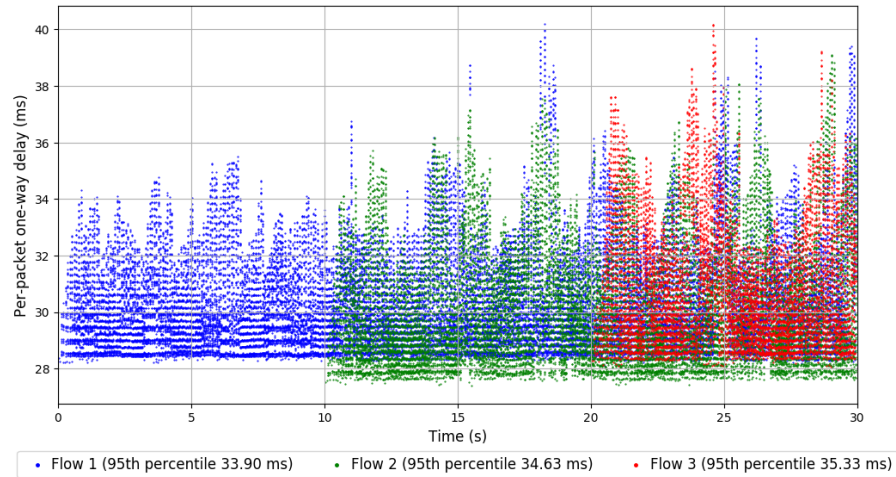
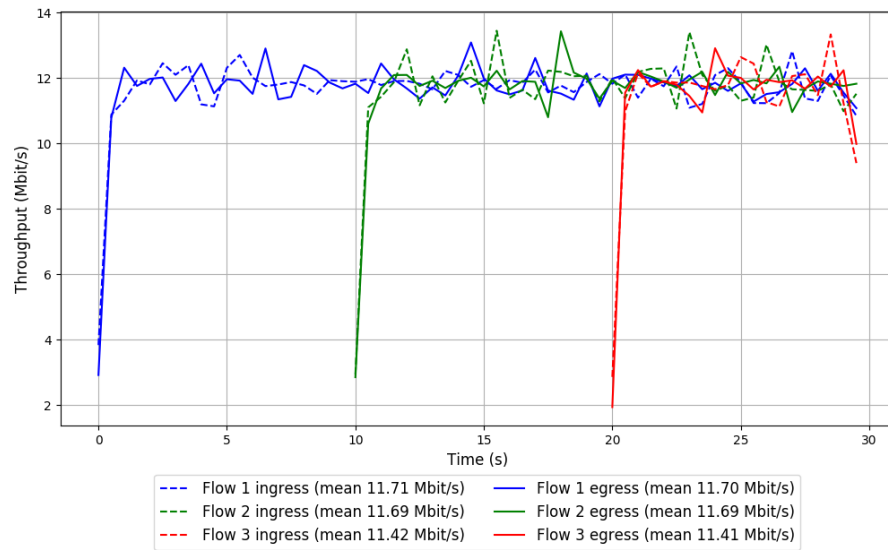


## Run 2: Statistics of Sprout

Start at: 2018-03-21 04:57:33  
End at: 2018-03-21 04:58:03  
Local clock offset: -0.648 ms  
Remote clock offset: -3.272 ms

```
# Below is generated by plot.py at 2018-03-21 09:21:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 23.25 Mbit/s
95th percentile per-packet one-way delay: 34.506 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 11.70 Mbit/s
95th percentile per-packet one-way delay: 33.904 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 11.69 Mbit/s
95th percentile per-packet one-way delay: 34.631 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 11.41 Mbit/s
95th percentile per-packet one-way delay: 35.332 ms
Loss rate: 0.00%
```

## Run 2: Report of Sprout — Data Link



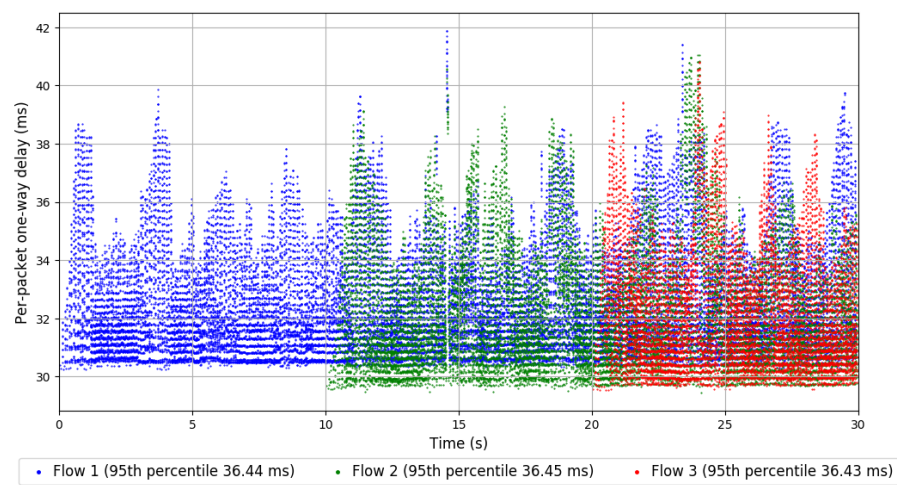
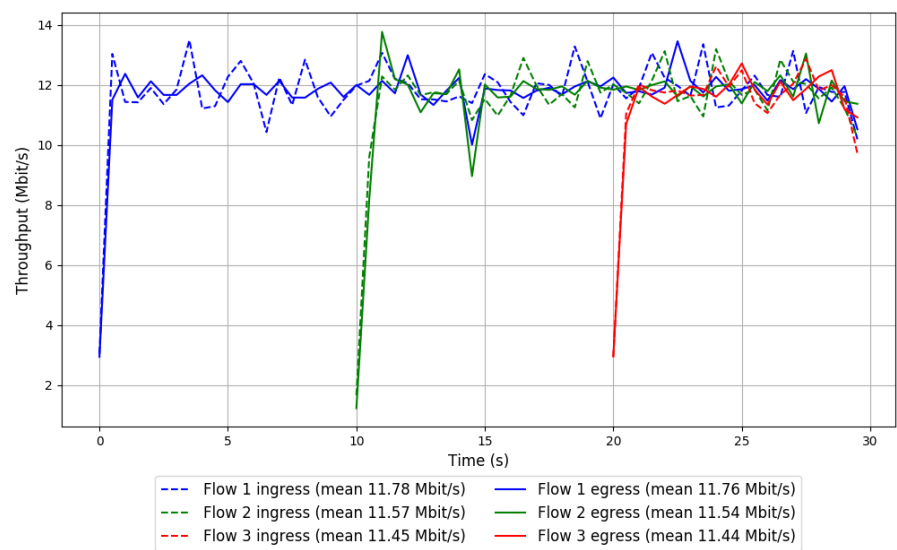
### Run 3: Statistics of Sprout

Start at: 2018-03-21 05:28:10  
End at: 2018-03-21 05:28:40  
Local clock offset: -0.107 ms  
Remote clock offset: -0.833 ms

```
# Below is generated by plot.py at 2018-03-21 09:21:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 23.20 Mbit/s
95th percentile per-packet one-way delay: 36.444 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 11.76 Mbit/s
95th percentile per-packet one-way delay: 36.444 ms
Loss rate: 0.17%
-- Flow 2:
Average throughput: 11.54 Mbit/s
95th percentile per-packet one-way delay: 36.452 ms
Loss rate: 0.23%
-- Flow 3:
Average throughput: 11.44 Mbit/s
95th percentile per-packet one-way delay: 36.430 ms
Loss rate: 0.00%
```



Run 3: Report of Sprout — Data Link

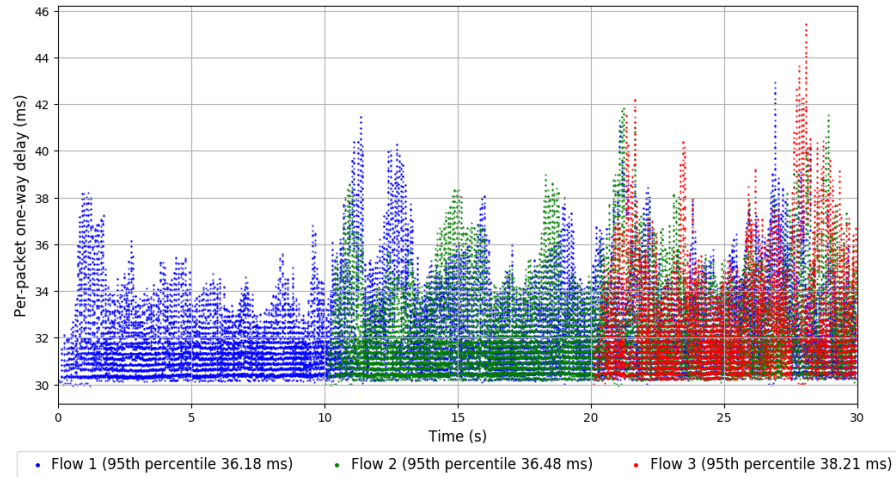
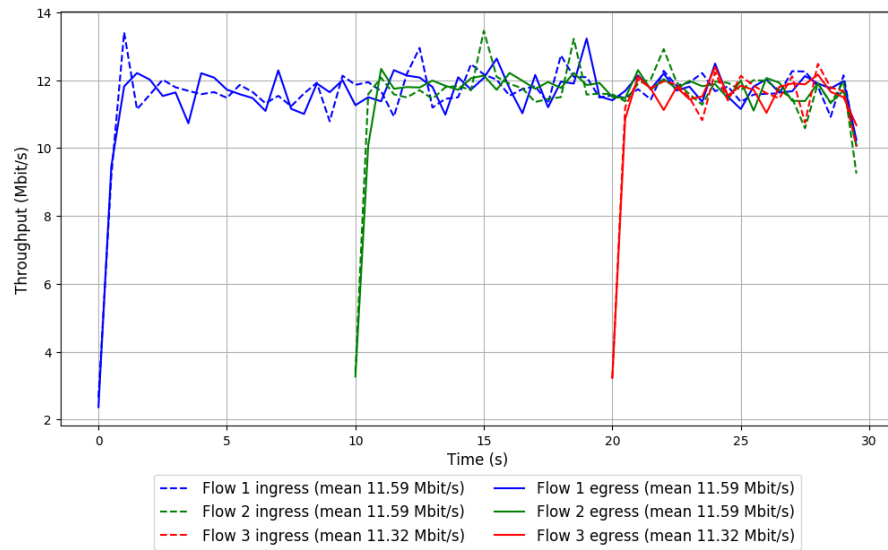


#### Run 4: Statistics of Sprout

Start at: 2018-03-21 05:57:52  
End at: 2018-03-21 05:58:22  
Local clock offset: -0.168 ms  
Remote clock offset: -0.53 ms

```
# Below is generated by plot.py at 2018-03-21 09:21:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 23.04 Mbit/s
95th percentile per-packet one-way delay: 36.636 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 11.59 Mbit/s
95th percentile per-packet one-way delay: 36.183 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 11.59 Mbit/s
95th percentile per-packet one-way delay: 36.482 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 11.32 Mbit/s
95th percentile per-packet one-way delay: 38.207 ms
Loss rate: 0.00%
```

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

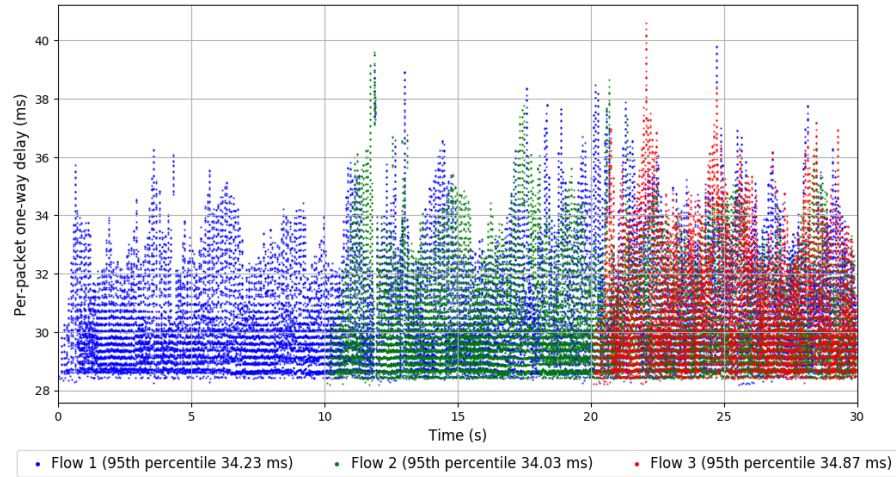
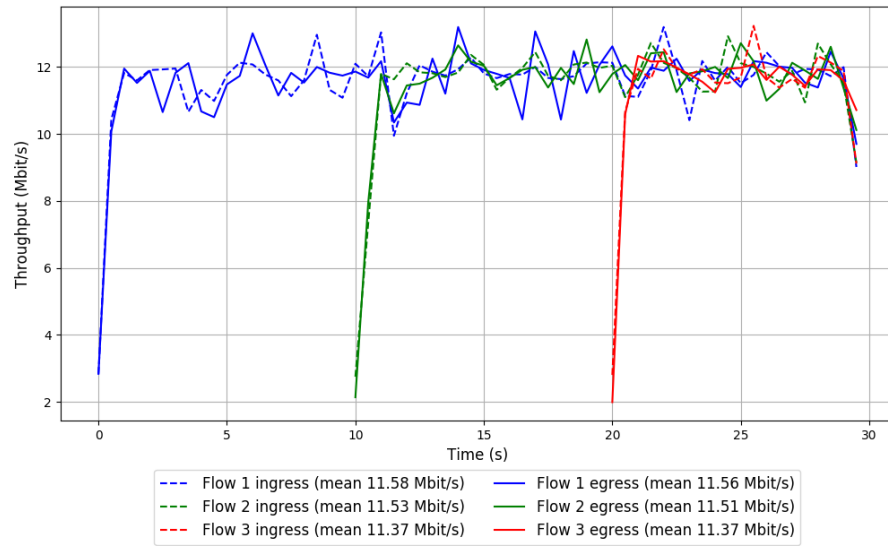


Run 5: Statistics of Sprout

Start at: 2018-03-21 06:26:10  
End at: 2018-03-21 06:26:40  
Local clock offset: -0.346 ms  
Remote clock offset: -4.402 ms

```
# Below is generated by plot.py at 2018-03-21 09:21:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 22.97 Mbit/s
95th percentile per-packet one-way delay: 34.297 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 11.56 Mbit/s
95th percentile per-packet one-way delay: 34.225 ms
Loss rate: 0.18%
-- Flow 2:
Average throughput: 11.51 Mbit/s
95th percentile per-packet one-way delay: 34.031 ms
Loss rate: 0.22%
-- Flow 3:
Average throughput: 11.37 Mbit/s
95th percentile per-packet one-way delay: 34.871 ms
Loss rate: 0.00%
```

## Run 5: Report of Sprout — Data Link

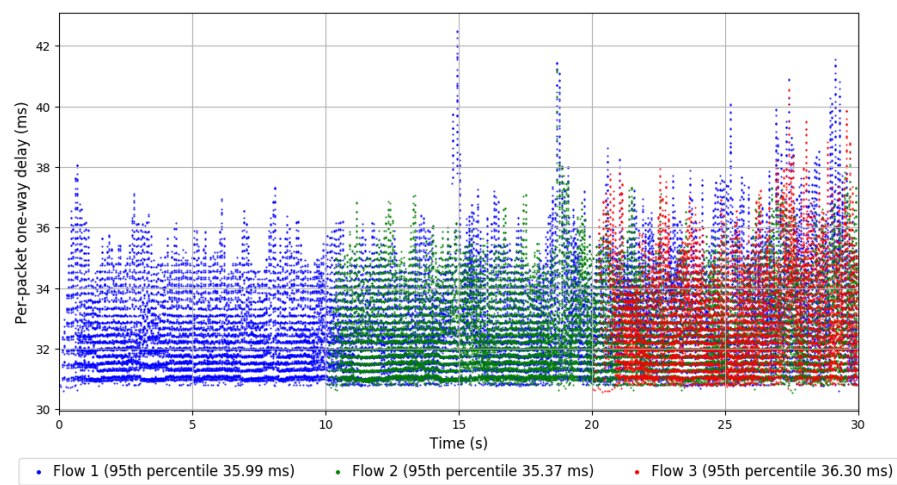
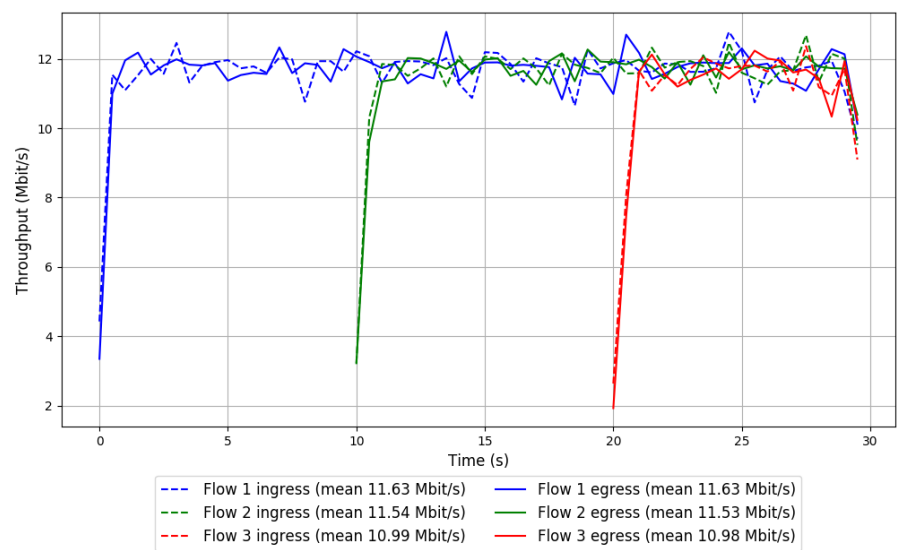


Run 6: Statistics of Sprout

Start at: 2018-03-21 06:54:46  
End at: 2018-03-21 06:55:16  
Local clock offset: -0.17 ms  
Remote clock offset: -0.473 ms

```
# Below is generated by plot.py at 2018-03-21 09:21:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 22.93 Mbit/s
95th percentile per-packet one-way delay: 35.870 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 11.63 Mbit/s
95th percentile per-packet one-way delay: 35.987 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 11.53 Mbit/s
95th percentile per-packet one-way delay: 35.368 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 10.98 Mbit/s
95th percentile per-packet one-way delay: 36.303 ms
Loss rate: 0.00%
```

Run 6: Report of Sprout — Data Link



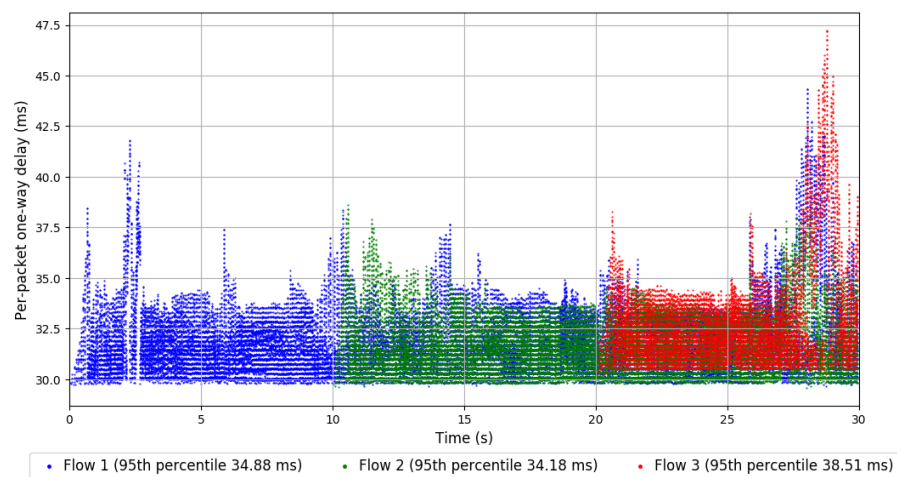
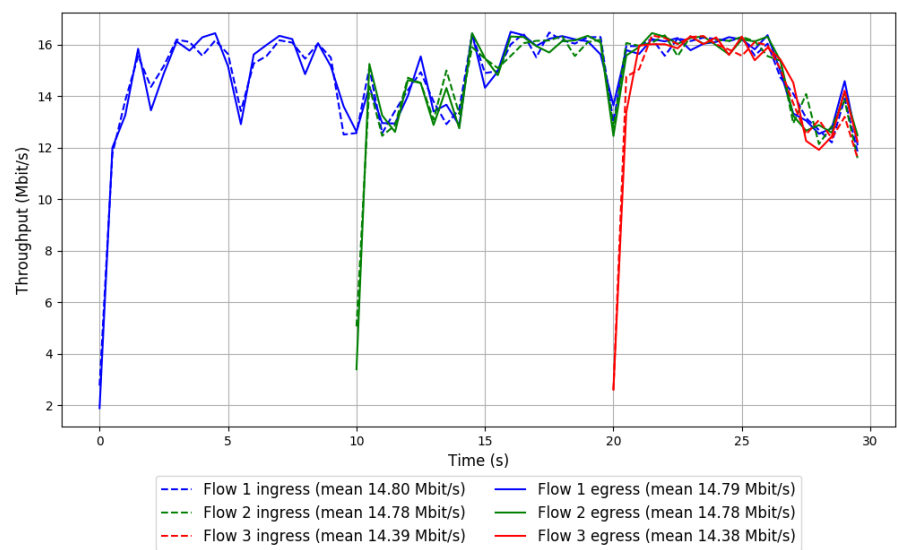
Run 7: Statistics of Sprout

Start at: 2018-03-21 07:21:05  
End at: 2018-03-21 07:21:35  
Local clock offset: -0.195 ms  
Remote clock offset: -1.791 ms

```
# Below is generated by plot.py at 2018-03-21 09:21:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 29.37 Mbit/s
95th percentile per-packet one-way delay: 35.049 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 14.79 Mbit/s
95th percentile per-packet one-way delay: 34.879 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 14.78 Mbit/s
95th percentile per-packet one-way delay: 34.176 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 14.38 Mbit/s
95th percentile per-packet one-way delay: 38.512 ms
Loss rate: 0.00%
```



Run 7: Report of Sprout — Data Link

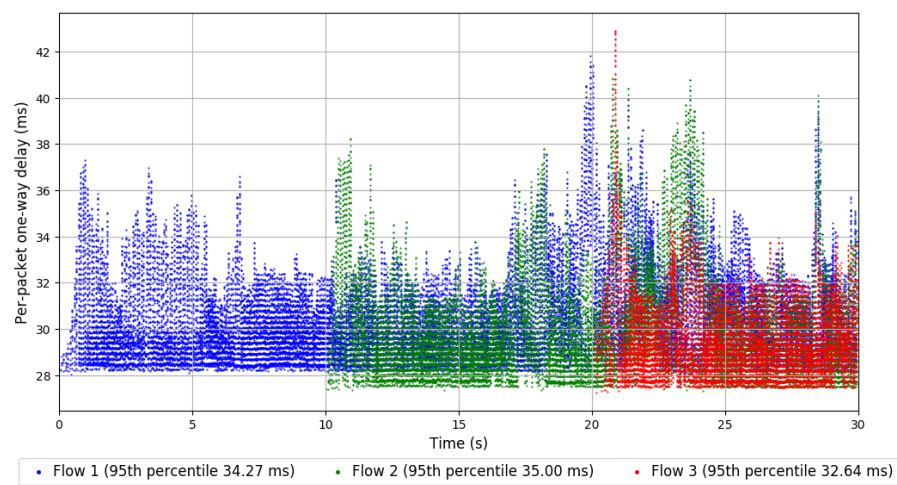
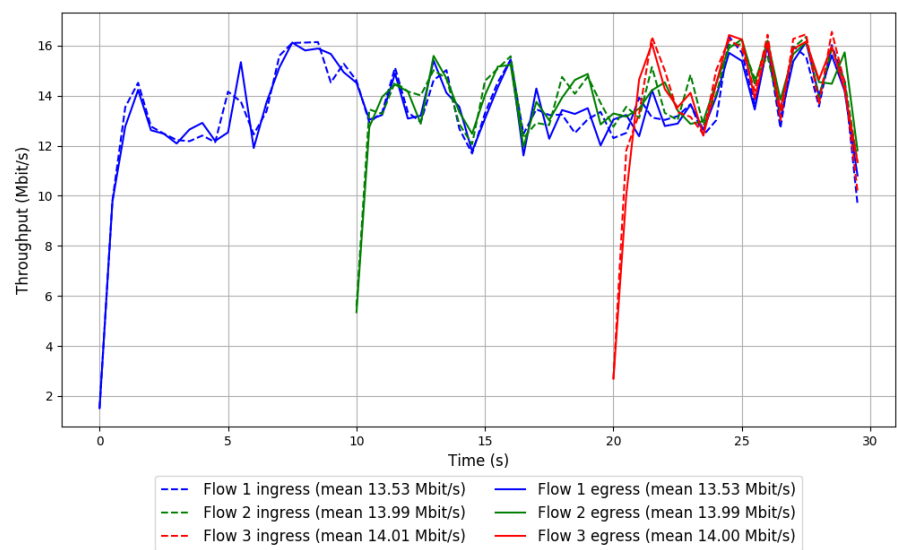


Run 8: Statistics of Sprout

Start at: 2018-03-21 07:48:14  
End at: 2018-03-21 07:48:44  
Local clock offset: -0.518 ms  
Remote clock offset: -2.447 ms

```
# Below is generated by plot.py at 2018-03-21 09:21:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 27.46 Mbit/s
95th percentile per-packet one-way delay: 34.258 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 13.53 Mbit/s
95th percentile per-packet one-way delay: 34.273 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 13.99 Mbit/s
95th percentile per-packet one-way delay: 34.999 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 14.00 Mbit/s
95th percentile per-packet one-way delay: 32.643 ms
Loss rate: 0.00%
```

Run 8: Report of Sprout — Data Link

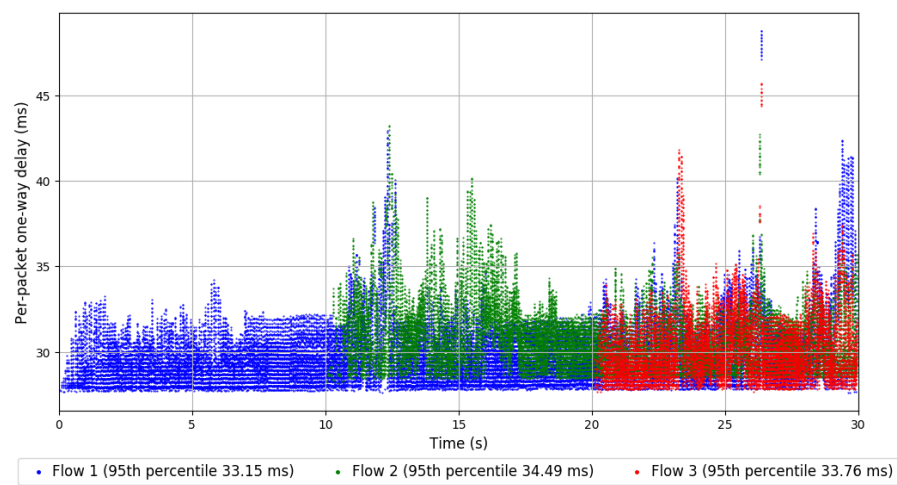
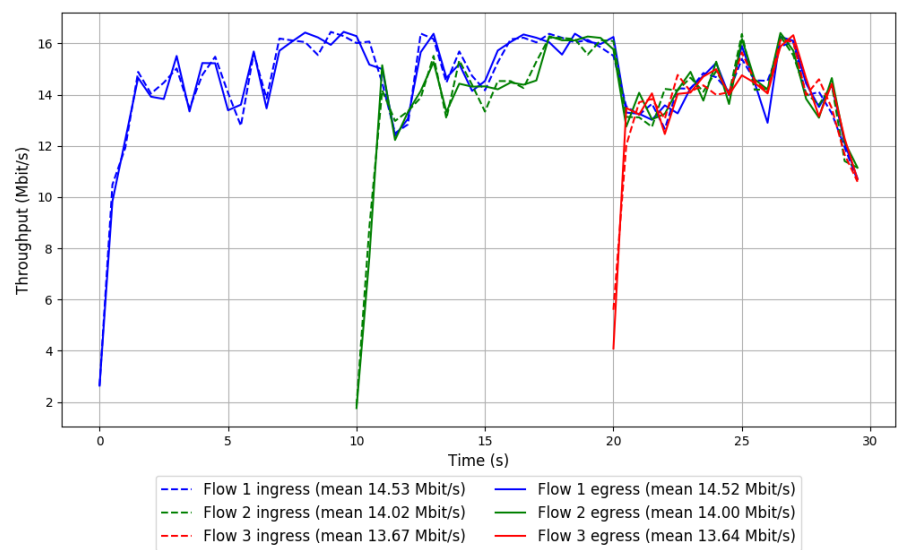


Run 9: Statistics of Sprout

Start at: 2018-03-21 08:14:48  
End at: 2018-03-21 08:15:18  
Local clock offset: -0.534 ms  
Remote clock offset: -0.552 ms

```
# Below is generated by plot.py at 2018-03-21 09:21:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 28.33 Mbit/s
95th percentile per-packet one-way delay: 33.816 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 14.52 Mbit/s
95th percentile per-packet one-way delay: 33.153 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 14.00 Mbit/s
95th percentile per-packet one-way delay: 34.493 ms
Loss rate: 0.15%
-- Flow 3:
Average throughput: 13.64 Mbit/s
95th percentile per-packet one-way delay: 33.757 ms
Loss rate: 0.22%
```

Run 9: Report of Sprout — Data Link

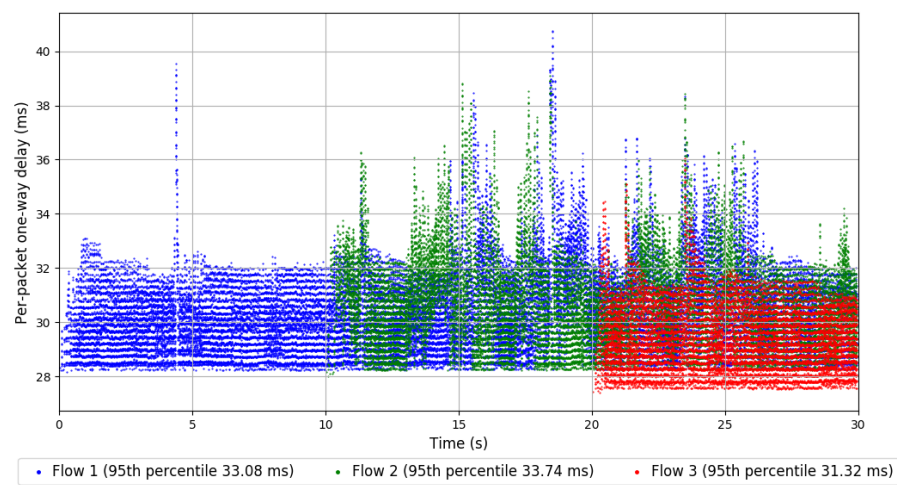
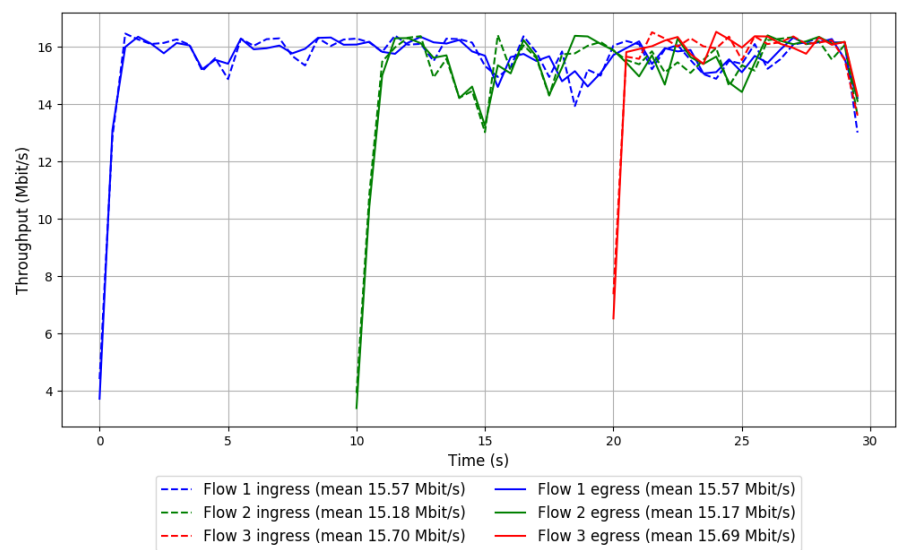


Run 10: Statistics of Sprout

Start at: 2018-03-21 08:40:23  
End at: 2018-03-21 08:40:53  
Local clock offset: -0.409 ms  
Remote clock offset: -2.782 ms

# Below is generated by plot.py at 2018-03-21 09:21:42  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 30.84 Mbit/s  
95th percentile per-packet one-way delay: 33.148 ms  
Loss rate: 0.03%  
-- Flow 1:  
Average throughput: 15.57 Mbit/s  
95th percentile per-packet one-way delay: 33.079 ms  
Loss rate: 0.04%  
-- Flow 2:  
Average throughput: 15.17 Mbit/s  
95th percentile per-packet one-way delay: 33.743 ms  
Loss rate: 0.02%  
-- Flow 3:  
Average throughput: 15.69 Mbit/s  
95th percentile per-packet one-way delay: 31.319 ms  
Loss rate: 0.00%

Run 10: Report of Sprout — Data Link



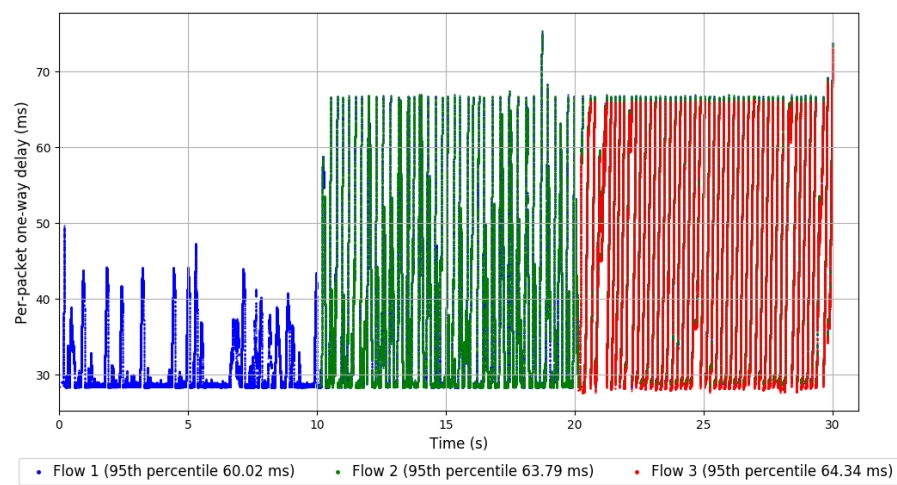
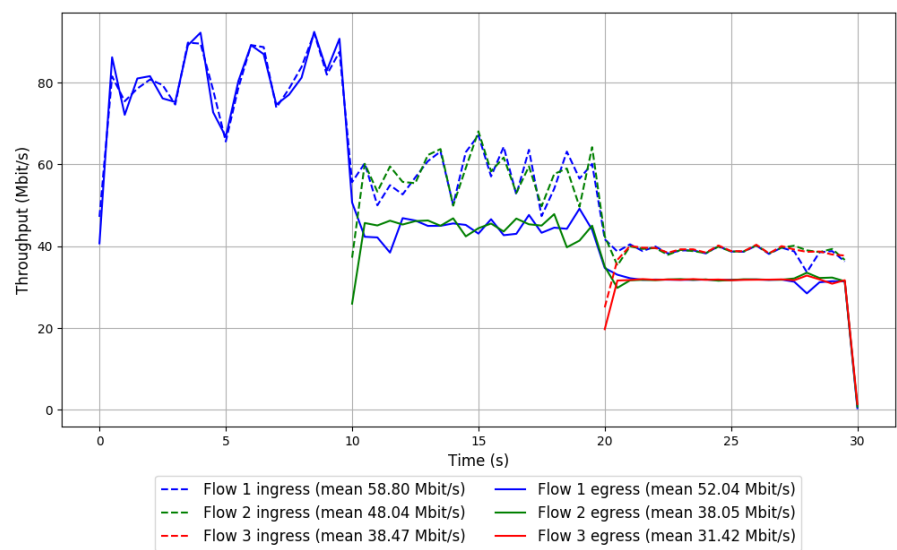
Run 1: Statistics of TaoVA-100x

Start at: 2018-03-21 04:05:01  
End at: 2018-03-21 04:05:31  
Local clock offset: 0.024 ms  
Remote clock offset: -5.453 ms

# Below is generated by plot.py at 2018-03-21 09:23:47  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 87.81 Mbit/s  
95th percentile per-packet one-way delay: 62.620 ms  
Loss rate: 15.14%  
-- Flow 1:  
Average throughput: 52.04 Mbit/s  
95th percentile per-packet one-way delay: 60.015 ms  
Loss rate: 11.43%  
-- Flow 2:  
Average throughput: 38.05 Mbit/s  
95th percentile per-packet one-way delay: 63.790 ms  
Loss rate: 20.72%  
-- Flow 3:  
Average throughput: 31.42 Mbit/s  
95th percentile per-packet one-way delay: 64.340 ms  
Loss rate: 18.26%



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

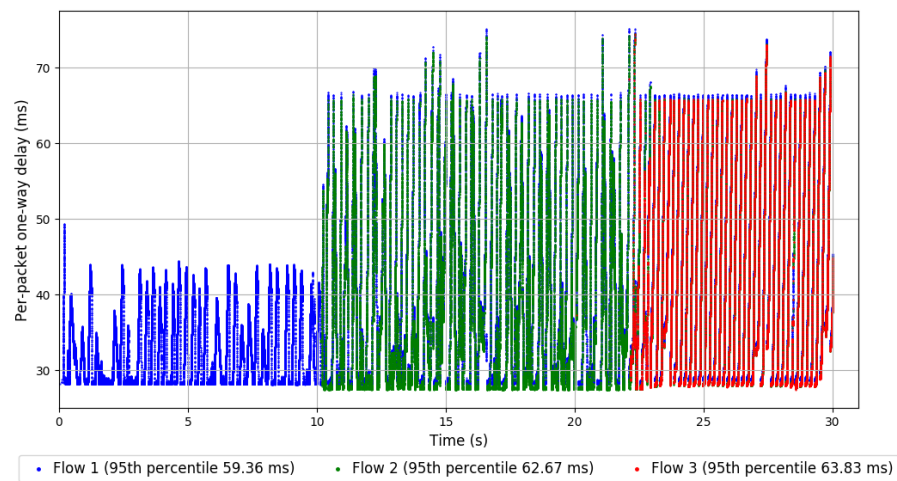
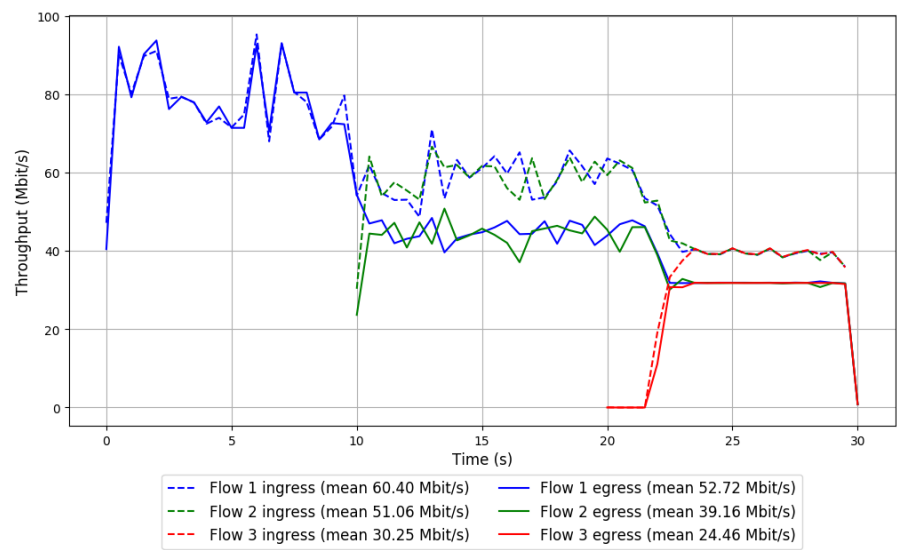


Run 2: Statistics of TaoVA-100x

Start at: 2018-03-21 04:37:19  
End at: 2018-03-21 04:37:49  
Local clock offset: -0.19 ms  
Remote clock offset: -3.447 ms

# Below is generated by plot.py at 2018-03-21 09:23:50  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 86.92 Mbit/s  
95th percentile per-packet one-way delay: 61.450 ms  
Loss rate: 16.73%  
-- Flow 1:  
Average throughput: 52.72 Mbit/s  
95th percentile per-packet one-way delay: 59.360 ms  
Loss rate: 12.66%  
-- Flow 2:  
Average throughput: 39.16 Mbit/s  
95th percentile per-packet one-way delay: 62.672 ms  
Loss rate: 23.26%  
-- Flow 3:  
Average throughput: 24.46 Mbit/s  
95th percentile per-packet one-way delay: 63.832 ms  
Loss rate: 19.09%

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

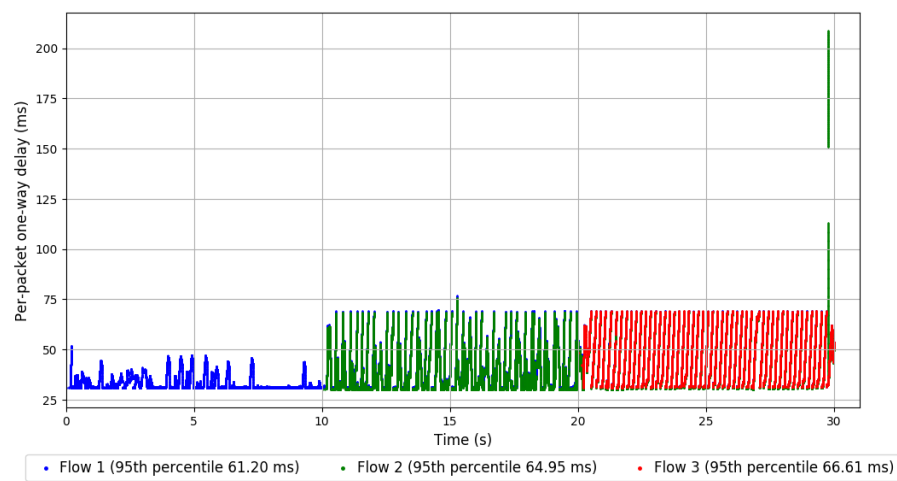
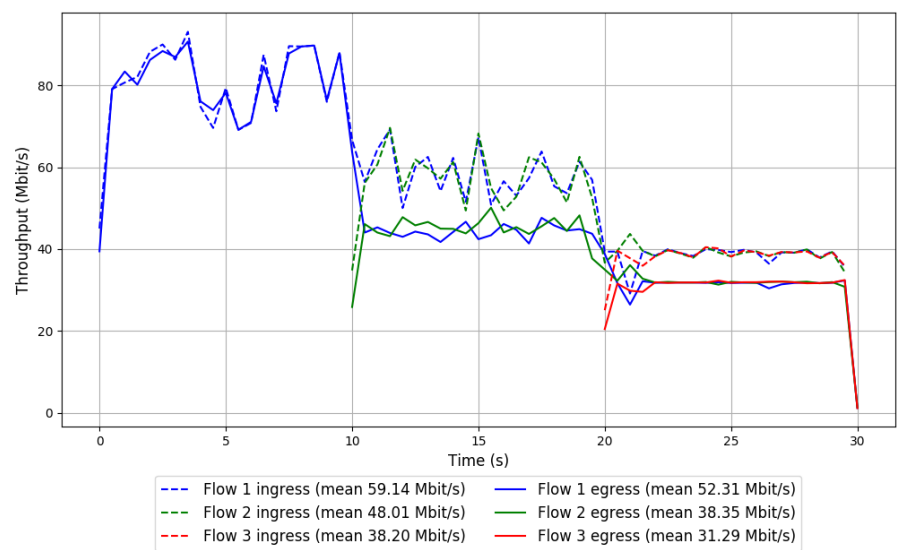


Run 3: Statistics of TaoVA-100x

Start at: 2018-03-21 05:05:32  
End at: 2018-03-21 05:06:02  
Local clock offset: -0.497 ms  
Remote clock offset: -0.652 ms

# Below is generated by plot.py at 2018-03-21 09:23:52  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 88.24 Mbit/s  
95th percentile per-packet one-way delay: 63.799 ms  
Loss rate: 14.93%  
-- Flow 1:  
Average throughput: 52.31 Mbit/s  
95th percentile per-packet one-way delay: 61.201 ms  
Loss rate: 11.50%  
-- Flow 2:  
Average throughput: 38.35 Mbit/s  
95th percentile per-packet one-way delay: 64.948 ms  
Loss rate: 20.03%  
-- Flow 3:  
Average throughput: 31.29 Mbit/s  
95th percentile per-packet one-way delay: 66.612 ms  
Loss rate: 18.06%

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

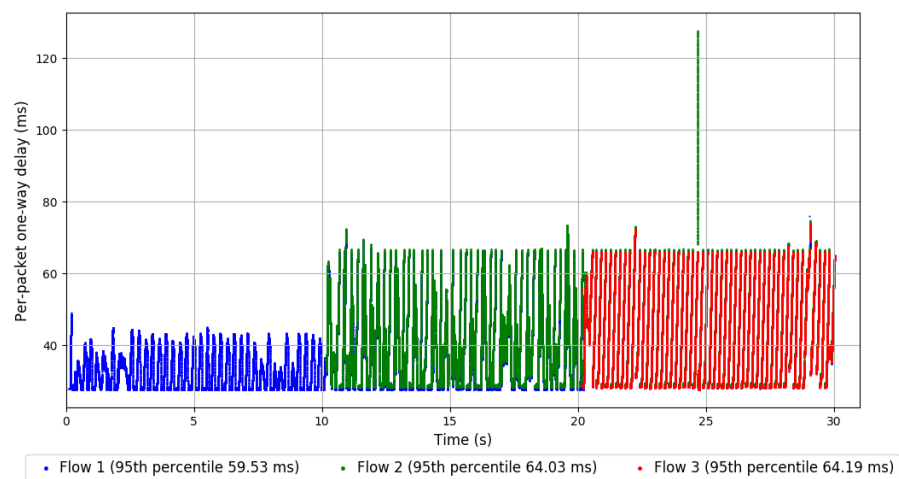
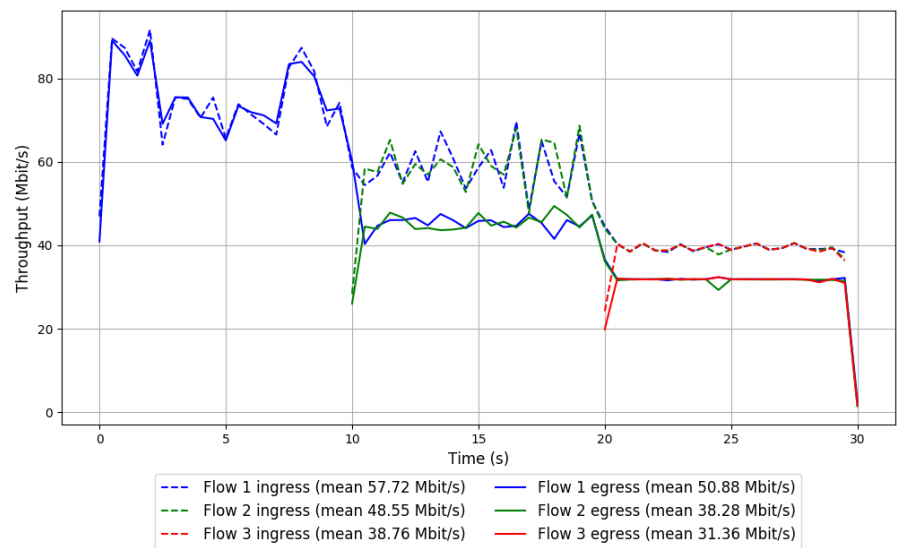


Run 4: Statistics of TaoVA-100x

Start at: 2018-03-21 05:35:19  
End at: 2018-03-21 05:35:49  
Local clock offset: -0.085 ms  
Remote clock offset: -3.308 ms

# Below is generated by plot.py at 2018-03-21 09:23:52  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 86.80 Mbit/s  
95th percentile per-packet one-way delay: 62.237 ms  
Loss rate: 15.55%  
-- Flow 1:  
Average throughput: 50.88 Mbit/s  
95th percentile per-packet one-way delay: 59.529 ms  
Loss rate: 11.74%  
-- Flow 2:  
Average throughput: 38.28 Mbit/s  
95th percentile per-packet one-way delay: 64.032 ms  
Loss rate: 21.04%  
-- Flow 3:  
Average throughput: 31.36 Mbit/s  
95th percentile per-packet one-way delay: 64.190 ms  
Loss rate: 18.80%

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



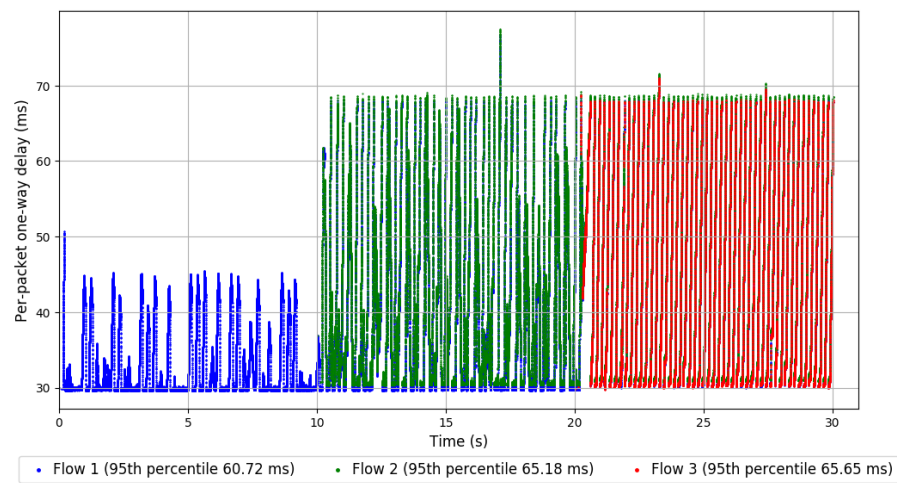
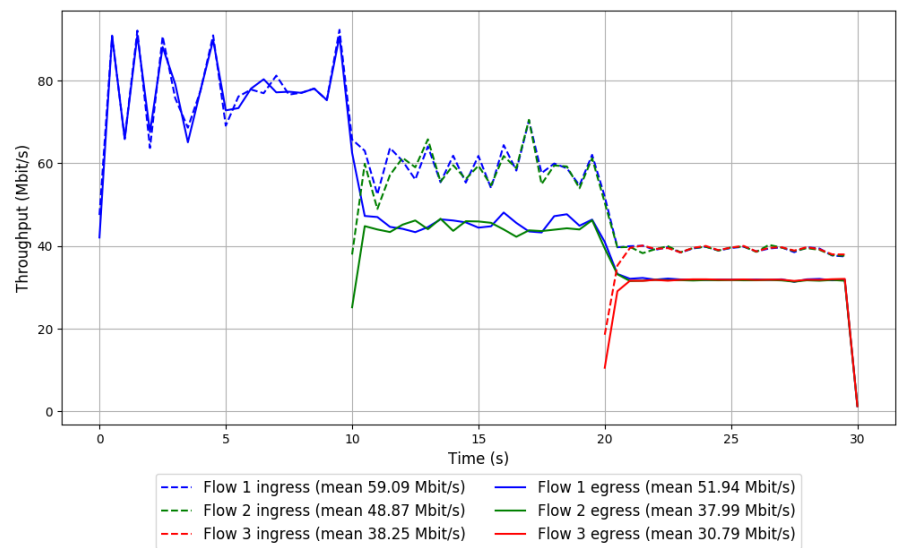
Run 5: Statistics of TaoVA-100x

Start at: 2018-03-21 06:05:42  
End at: 2018-03-21 06:06:12  
Local clock offset: -0.18 ms  
Remote clock offset: -1.984 ms

# Below is generated by plot.py at 2018-03-21 09:24:00  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 87.47 Mbit/s  
95th percentile per-packet one-way delay: 63.488 ms  
Loss rate: 16.10%  
-- Flow 1:  
Average throughput: 51.94 Mbit/s  
95th percentile per-packet one-way delay: 60.722 ms  
Loss rate: 12.04%  
-- Flow 2:  
Average throughput: 37.99 Mbit/s  
95th percentile per-packet one-way delay: 65.179 ms  
Loss rate: 22.21%  
-- Flow 3:  
Average throughput: 30.79 Mbit/s  
95th percentile per-packet one-way delay: 65.653 ms  
Loss rate: 19.31%



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

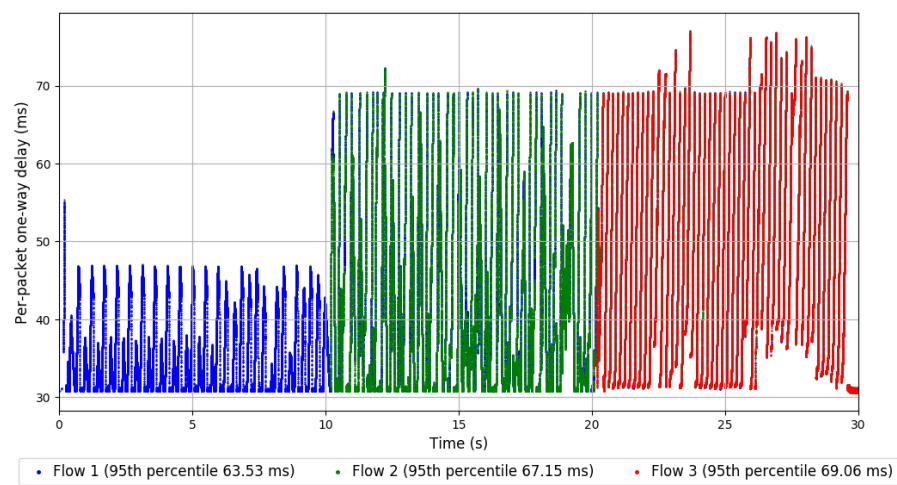
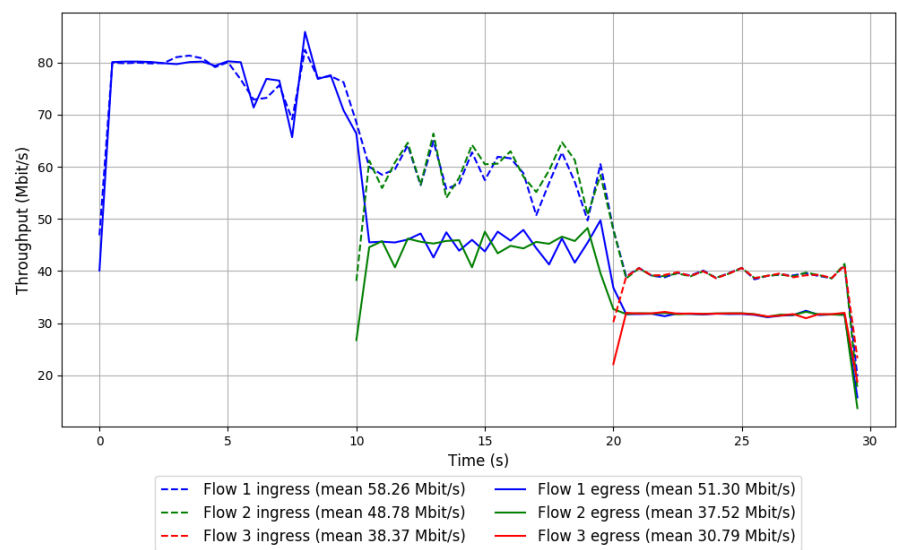


Run 6: Statistics of TaoVA-100x

Start at: 2018-03-21 06:33:45  
End at: 2018-03-21 06:34:15  
Local clock offset: -0.321 ms  
Remote clock offset: -1.706 ms

# Below is generated by plot.py at 2018-03-21 09:24:01  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 86.49 Mbit/s  
95th percentile per-packet one-way delay: 66.231 ms  
Loss rate: 16.41%  
-- Flow 1:  
Average throughput: 51.30 Mbit/s  
95th percentile per-packet one-way delay: 63.531 ms  
Loss rate: 11.94%  
-- Flow 2:  
Average throughput: 37.52 Mbit/s  
95th percentile per-packet one-way delay: 67.151 ms  
Loss rate: 23.11%  
-- Flow 3:  
Average throughput: 30.79 Mbit/s  
95th percentile per-packet one-way delay: 69.055 ms  
Loss rate: 19.75%

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

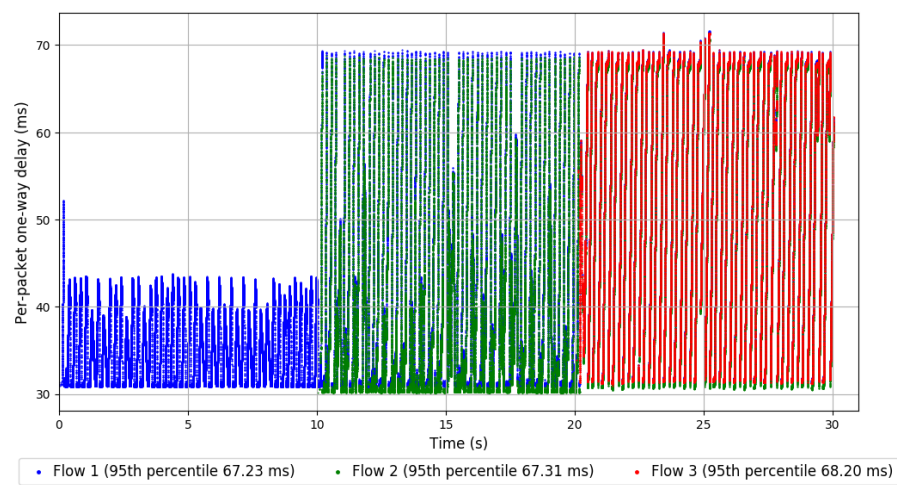
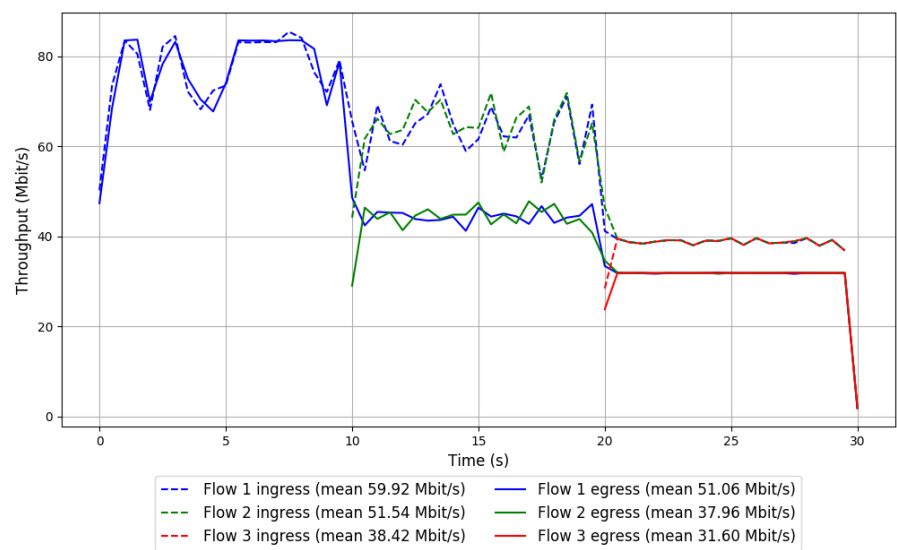


Run 7: Statistics of TaoVA-100x

Start at: 2018-03-21 07:01:36  
End at: 2018-03-21 07:02:06  
Local clock offset: -0.215 ms  
Remote clock offset: -0.338 ms

# Below is generated by plot.py at 2018-03-21 09:24:09  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 86.85 Mbit/s  
95th percentile per-packet one-way delay: 67.739 ms  
Loss rate: 18.74%  
-- Flow 1:  
Average throughput: 51.06 Mbit/s  
95th percentile per-packet one-way delay: 67.233 ms  
Loss rate: 14.70%  
-- Flow 2:  
Average throughput: 37.96 Mbit/s  
95th percentile per-packet one-way delay: 67.308 ms  
Loss rate: 26.24%  
-- Flow 3:  
Average throughput: 31.60 Mbit/s  
95th percentile per-packet one-way delay: 68.201 ms  
Loss rate: 17.52%

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

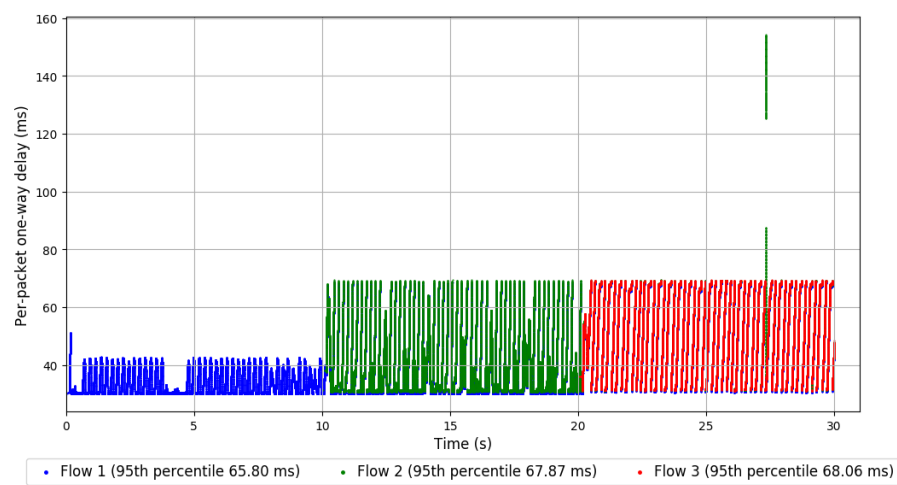
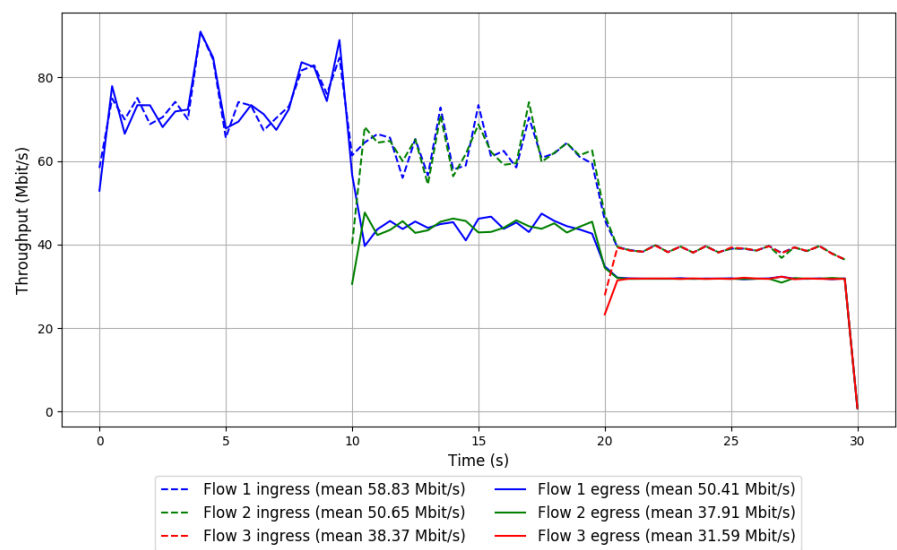


Run 8: Statistics of TaoVA-100x

Start at: 2018-03-21 07:28:08  
End at: 2018-03-21 07:28:38  
Local clock offset: -0.296 ms  
Remote clock offset: -1.621 ms

# Below is generated by plot.py at 2018-03-21 09:24:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 86.15 Mbit/s  
95th percentile per-packet one-way delay: 67.563 ms  
Loss rate: 18.13%  
-- Flow 1:  
Average throughput: 50.41 Mbit/s  
95th percentile per-packet one-way delay: 65.801 ms  
Loss rate: 14.25%  
-- Flow 2:  
Average throughput: 37.91 Mbit/s  
95th percentile per-packet one-way delay: 67.871 ms  
Loss rate: 25.09%  
-- Flow 3:  
Average throughput: 31.59 Mbit/s  
95th percentile per-packet one-way delay: 68.065 ms  
Loss rate: 17.58%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-03-21 07:55:32

End at: 2018-03-21 07:56:02

Local clock offset: -0.533 ms

Remote clock offset: 1.017 ms

# Below is generated by plot.py at 2018-03-21 09:26:28

# Datalink statistics

-- Total of 3 flows:

Average throughput: 88.90 Mbit/s

95th percentile per-packet one-way delay: 66.642 ms

Loss rate: 18.01%

-- Flow 1:

Average throughput: 53.27 Mbit/s

95th percentile per-packet one-way delay: 64.728 ms

Loss rate: 13.80%

-- Flow 2:

Average throughput: 37.75 Mbit/s

95th percentile per-packet one-way delay: 67.324 ms

Loss rate: 25.78%

-- Flow 3:

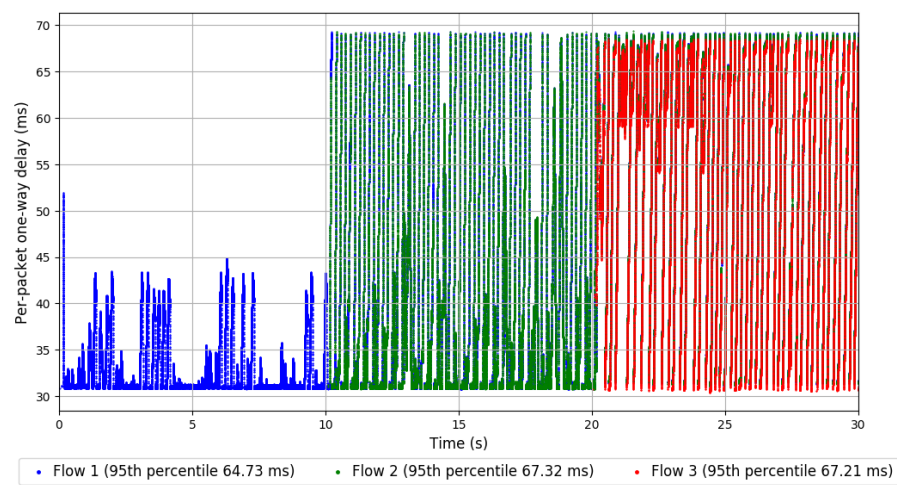
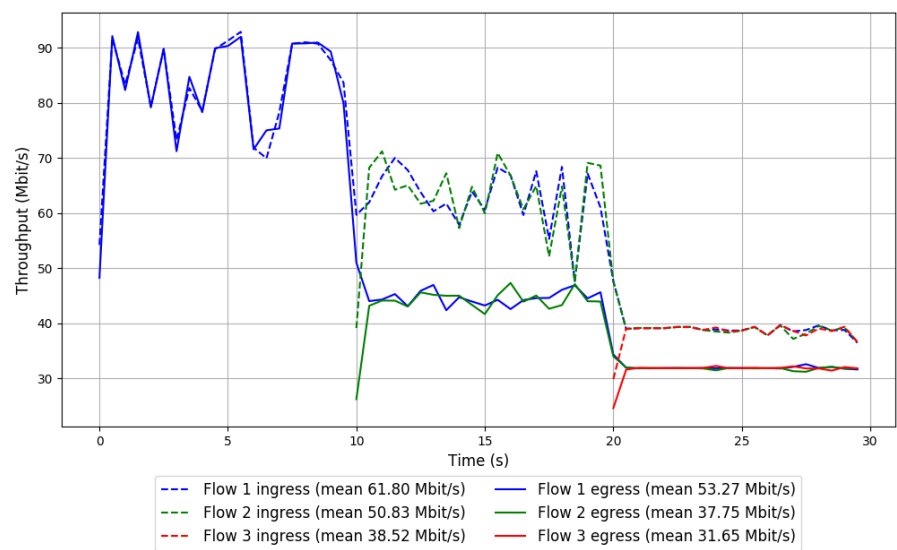
Average throughput: 31.65 Mbit/s

95th percentile per-packet one-way delay: 67.213 ms

Loss rate: 17.83%



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

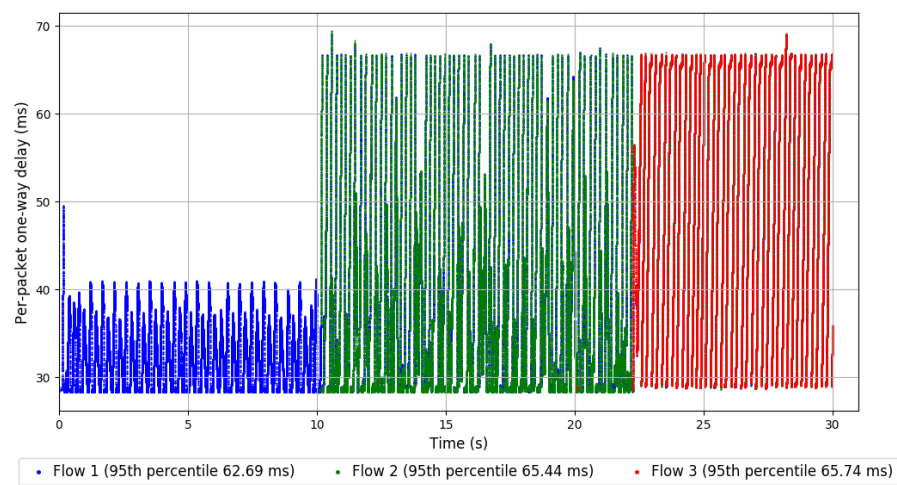
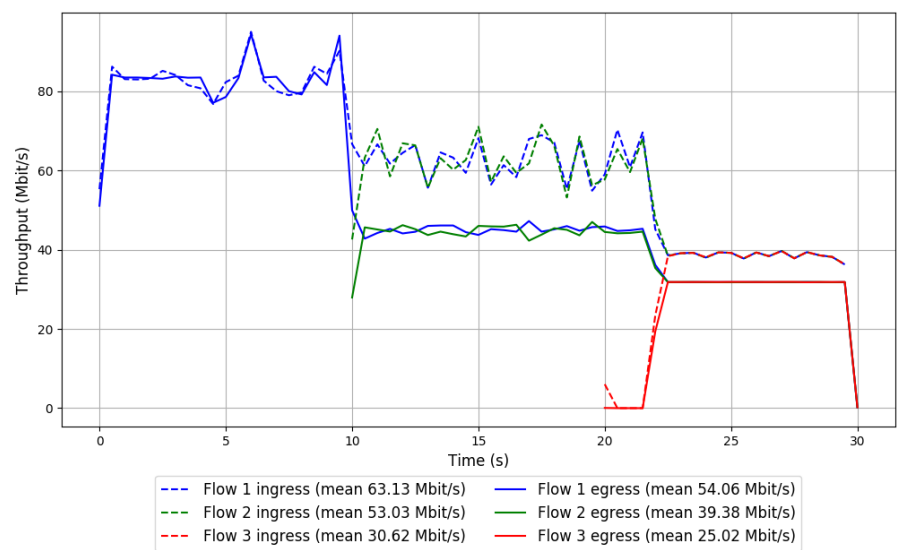


Run 10: Statistics of TaoVA-100x

Start at: 2018-03-21 08:21:58  
End at: 2018-03-21 08:22:28  
Local clock offset: -0.531 ms  
Remote clock offset: -1.859 ms

# Below is generated by plot.py at 2018-03-21 09:26:32  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 88.58 Mbit/s  
95th percentile per-packet one-way delay: 65.339 ms  
Loss rate: 18.42%  
-- Flow 1:  
Average throughput: 54.06 Mbit/s  
95th percentile per-packet one-way delay: 62.688 ms  
Loss rate: 14.36%  
-- Flow 2:  
Average throughput: 39.38 Mbit/s  
95th percentile per-packet one-way delay: 65.437 ms  
Loss rate: 25.72%  
-- Flow 3:  
Average throughput: 25.02 Mbit/s  
95th percentile per-packet one-way delay: 65.744 ms  
Loss rate: 18.24%

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

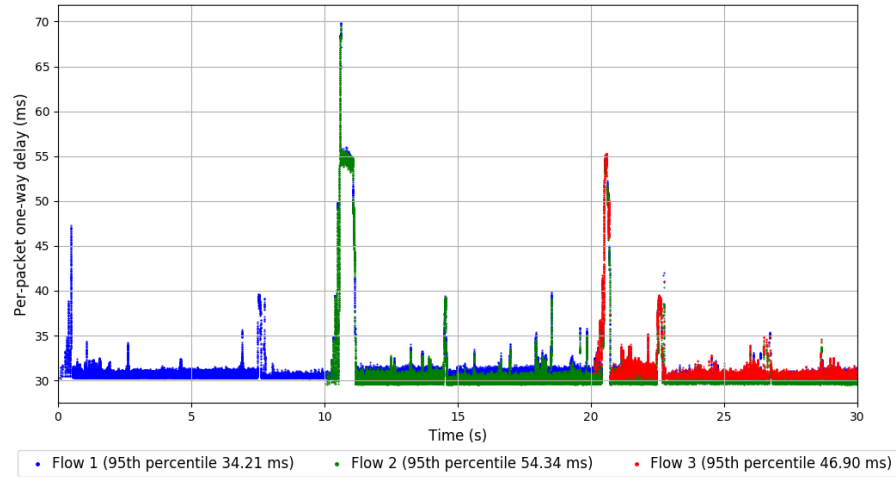
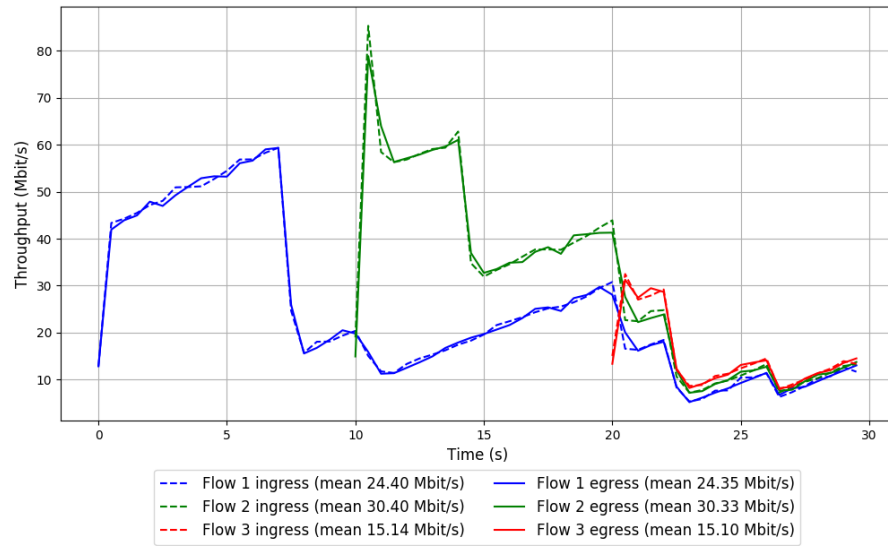


Run 1: Statistics of TCP Vegas

Start at: 2018-03-21 04:23:51  
End at: 2018-03-21 04:24:21  
Local clock offset: 0.278 ms  
Remote clock offset: -2.159 ms

# Below is generated by plot.py at 2018-03-21 09:26:32  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 49.55 Mbit/s  
95th percentile per-packet one-way delay: 46.329 ms  
Loss rate: 0.22%  
-- Flow 1:  
Average throughput: 24.35 Mbit/s  
95th percentile per-packet one-way delay: 34.213 ms  
Loss rate: 0.20%  
-- Flow 2:  
Average throughput: 30.33 Mbit/s  
95th percentile per-packet one-way delay: 54.341 ms  
Loss rate: 0.22%  
-- Flow 3:  
Average throughput: 15.10 Mbit/s  
95th percentile per-packet one-way delay: 46.895 ms  
Loss rate: 0.37%

# Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-03-21 04:53:05

End at: 2018-03-21 04:53:35

Local clock offset: -0.595 ms

Remote clock offset: -0.81 ms

# Below is generated by plot.py at 2018-03-21 09:26:32

# Datalink statistics

-- Total of 3 flows:

Average throughput: 68.87 Mbit/s

95th percentile per-packet one-way delay: 48.696 ms

Loss rate: 1.57%

-- Flow 1:

Average throughput: 24.41 Mbit/s

95th percentile per-packet one-way delay: 47.621 ms

Loss rate: 2.51%

-- Flow 2:

Average throughput: 48.16 Mbit/s

95th percentile per-packet one-way delay: 49.412 ms

Loss rate: 0.98%

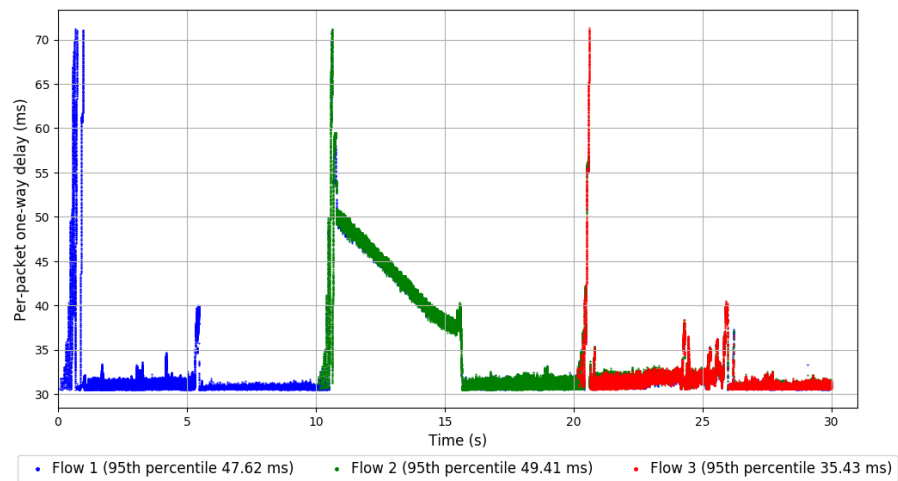
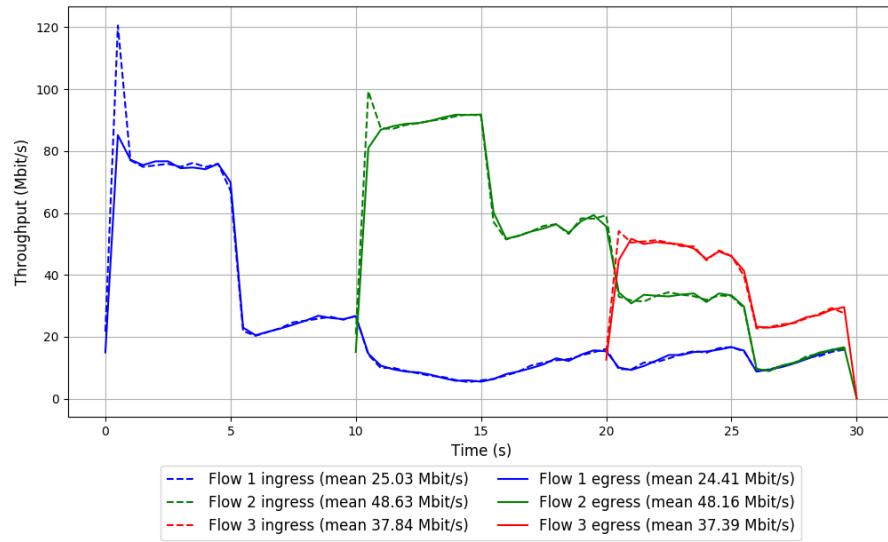
-- Flow 3:

Average throughput: 37.39 Mbit/s

95th percentile per-packet one-way delay: 35.431 ms

Loss rate: 1.20%

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



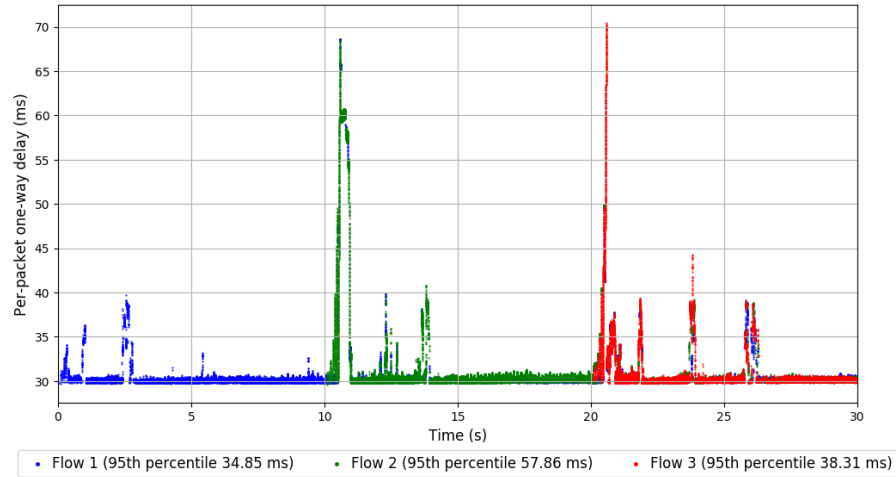
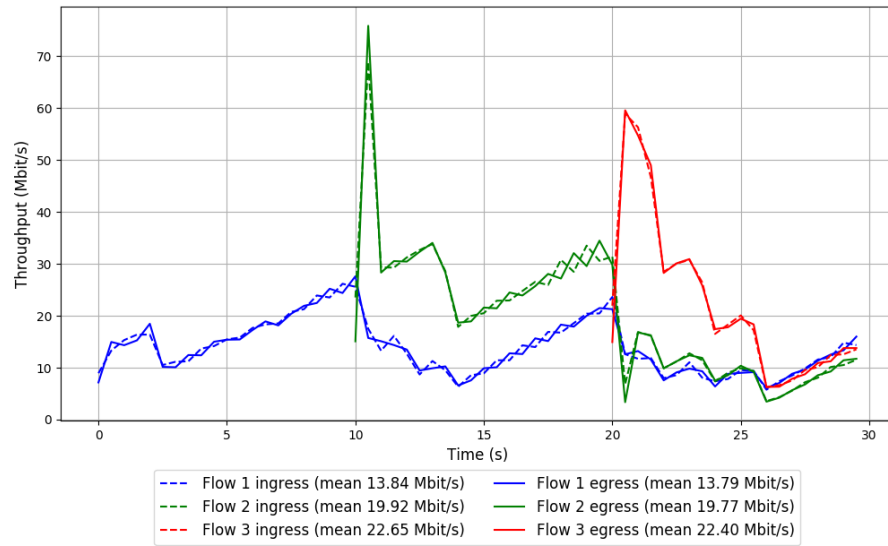
Run 3: Statistics of TCP Vegas

Start at: 2018-03-21 05:23:51  
End at: 2018-03-21 05:24:21  
Local clock offset: -0.244 ms  
Remote clock offset: -0.185 ms

# Below is generated by plot.py at 2018-03-21 09:26:32  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 34.38 Mbit/s  
95th percentile per-packet one-way delay: 41.488 ms  
Loss rate: 0.65%  
-- Flow 1:  
Average throughput: 13.79 Mbit/s  
95th percentile per-packet one-way delay: 34.848 ms  
Loss rate: 0.34%  
-- Flow 2:  
Average throughput: 19.77 Mbit/s  
95th percentile per-packet one-way delay: 57.862 ms  
Loss rate: 0.73%  
-- Flow 3:  
Average throughput: 22.40 Mbit/s  
95th percentile per-packet one-way delay: 38.312 ms  
Loss rate: 1.10%



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

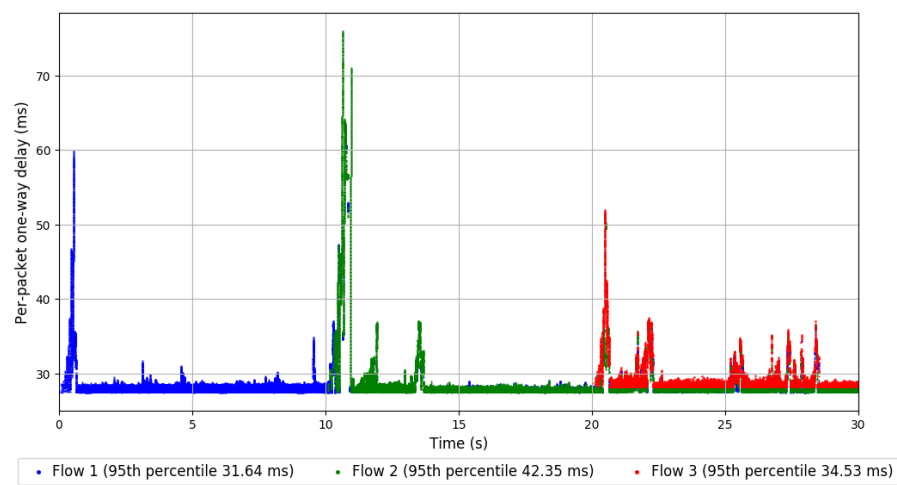
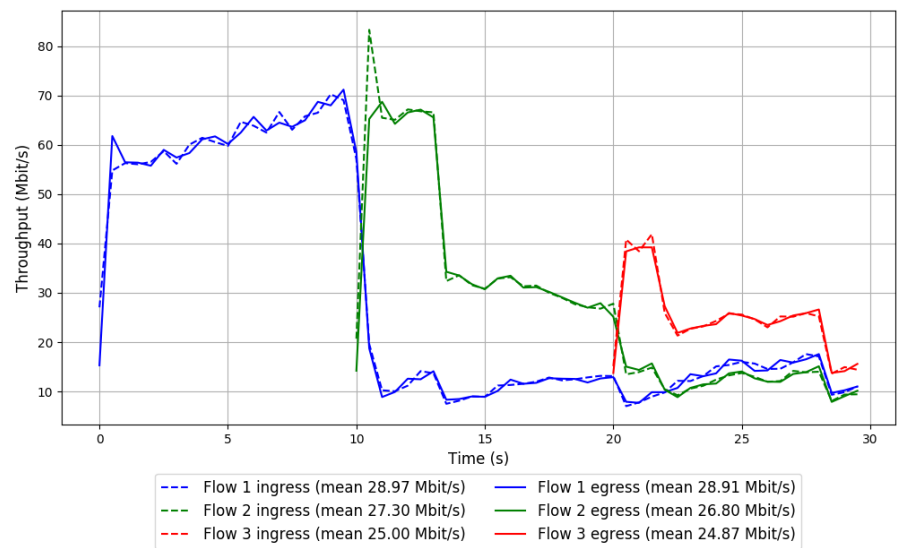


Run 4: Statistics of TCP Vegas

Start at: 2018-03-21 05:52:25  
End at: 2018-03-21 05:52:55  
Local clock offset: -0.15 ms  
Remote clock offset: -3.234 ms

# Below is generated by plot.py at 2018-03-21 09:26:32  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 54.98 Mbit/s  
95th percentile per-packet one-way delay: 34.603 ms  
Loss rate: 0.79%  
-- Flow 1:  
Average throughput: 28.91 Mbit/s  
95th percentile per-packet one-way delay: 31.642 ms  
Loss rate: 0.22%  
-- Flow 2:  
Average throughput: 26.80 Mbit/s  
95th percentile per-packet one-way delay: 42.351 ms  
Loss rate: 1.82%  
-- Flow 3:  
Average throughput: 24.87 Mbit/s  
95th percentile per-packet one-way delay: 34.530 ms  
Loss rate: 0.53%

Run 4: Report of TCP Vegas — Data Link

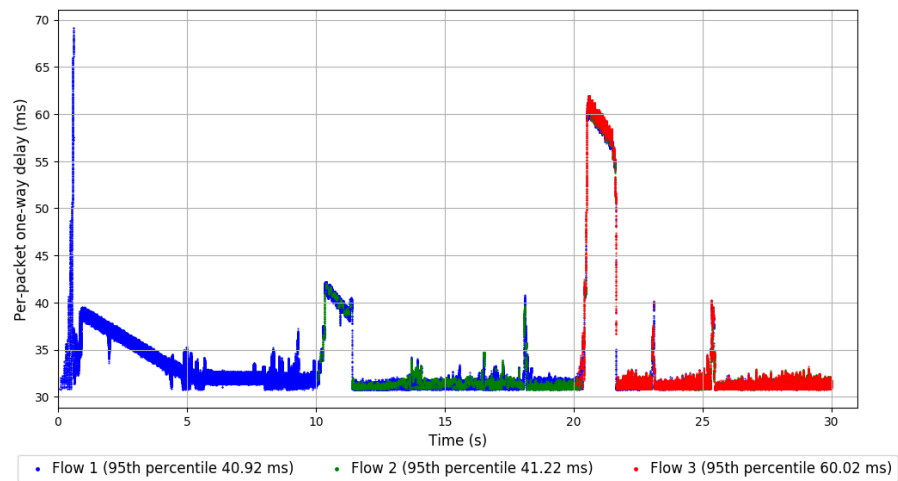
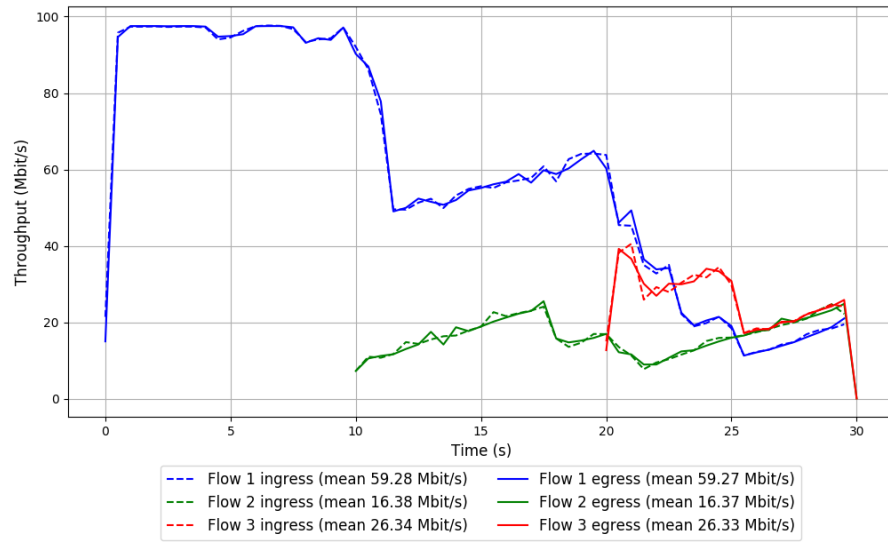


Run 5: Statistics of TCP Vegas

Start at: 2018-03-21 06:21:24  
End at: 2018-03-21 06:21:54  
Local clock offset: -0.318 ms  
Remote clock offset: -1.957 ms

# Below is generated by plot.py at 2018-03-21 09:26:32  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 78.91 Mbit/s  
95th percentile per-packet one-way delay: 44.739 ms  
Loss rate: 0.03%  
-- Flow 1:  
Average throughput: 59.27 Mbit/s  
95th percentile per-packet one-way delay: 40.919 ms  
Loss rate: 0.02%  
-- Flow 2:  
Average throughput: 16.37 Mbit/s  
95th percentile per-packet one-way delay: 41.219 ms  
Loss rate: 0.03%  
-- Flow 3:  
Average throughput: 26.33 Mbit/s  
95th percentile per-packet one-way delay: 60.015 ms  
Loss rate: 0.02%

# Run 5: Report of TCP Vegas — Data Link

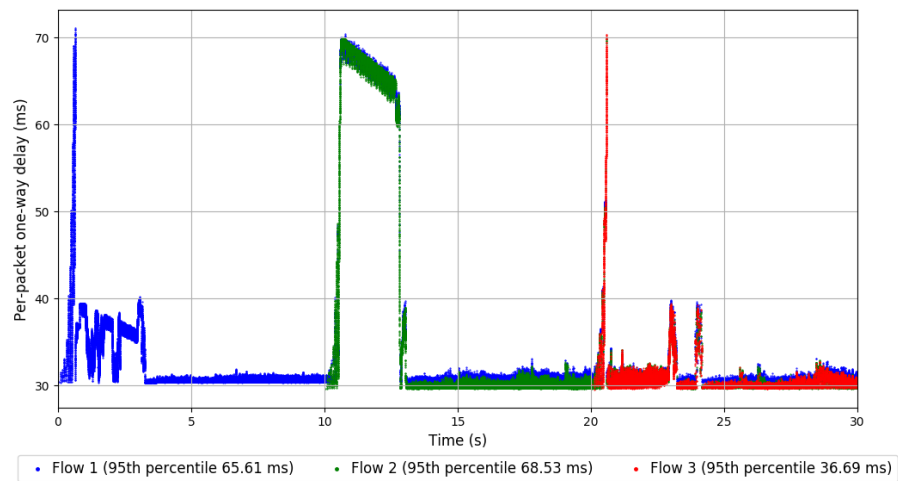
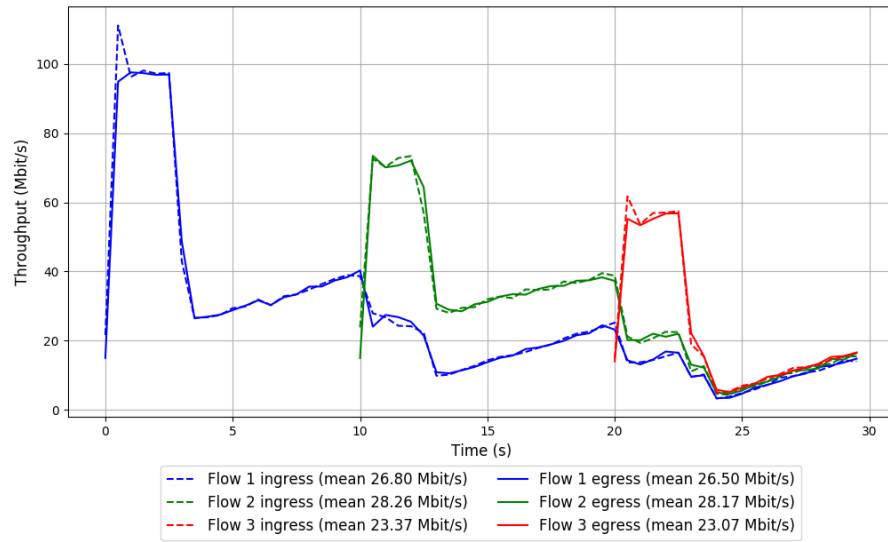


Run 6: Statistics of TCP Vegas

Start at: 2018-03-21 06:48:41  
End at: 2018-03-21 06:49:11  
Local clock offset: -0.272 ms  
Remote clock offset: -1.084 ms

# Below is generated by plot.py at 2018-03-21 09:26:32  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 52.89 Mbit/s  
95th percentile per-packet one-way delay: 67.402 ms  
Loss rate: 0.87%  
-- Flow 1:  
Average throughput: 26.50 Mbit/s  
95th percentile per-packet one-way delay: 65.610 ms  
Loss rate: 1.12%  
-- Flow 2:  
Average throughput: 28.17 Mbit/s  
95th percentile per-packet one-way delay: 68.525 ms  
Loss rate: 0.33%  
-- Flow 3:  
Average throughput: 23.07 Mbit/s  
95th percentile per-packet one-way delay: 36.691 ms  
Loss rate: 1.29%

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



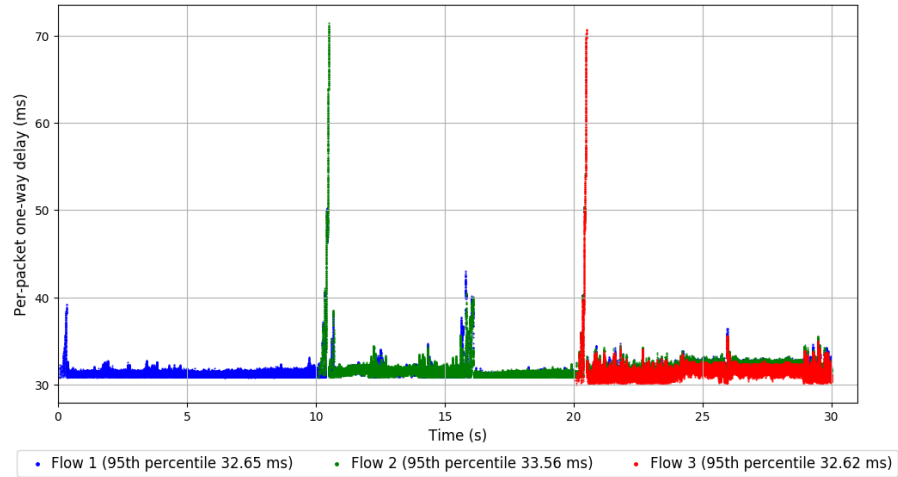
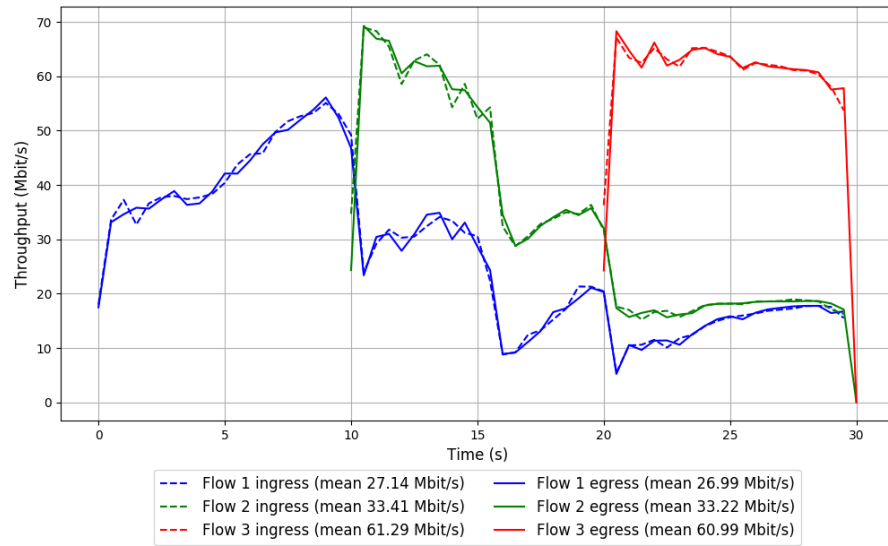
Run 7: Statistics of TCP Vegas

Start at: 2018-03-21 07:16:30  
End at: 2018-03-21 07:17:00  
Local clock offset: -0.142 ms  
Remote clock offset: -1.182 ms

# Below is generated by plot.py at 2018-03-21 09:26:32  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 69.35 Mbit/s  
95th percentile per-packet one-way delay: 32.863 ms  
Loss rate: 0.54%  
-- Flow 1:  
Average throughput: 26.99 Mbit/s  
95th percentile per-packet one-way delay: 32.650 ms  
Loss rate: 0.56%  
-- Flow 2:  
Average throughput: 33.22 Mbit/s  
95th percentile per-packet one-way delay: 33.563 ms  
Loss rate: 0.56%  
-- Flow 3:  
Average throughput: 60.99 Mbit/s  
95th percentile per-packet one-way delay: 32.623 ms  
Loss rate: 0.49%



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

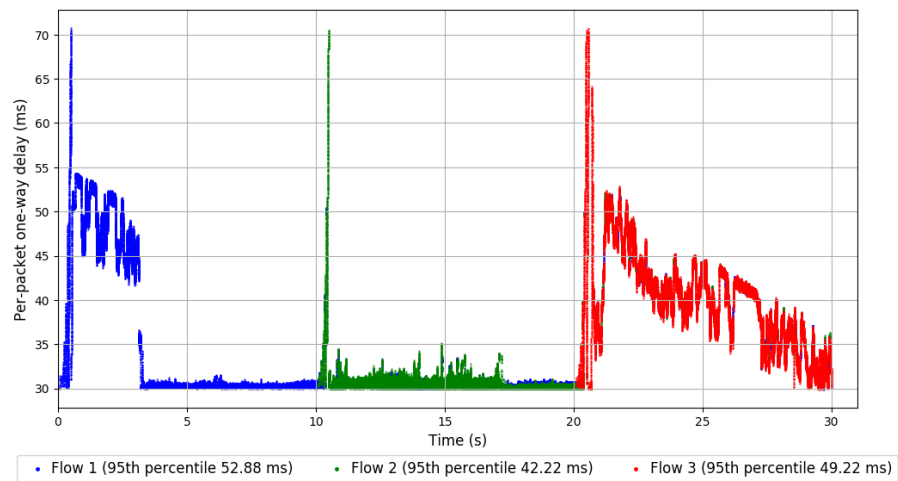
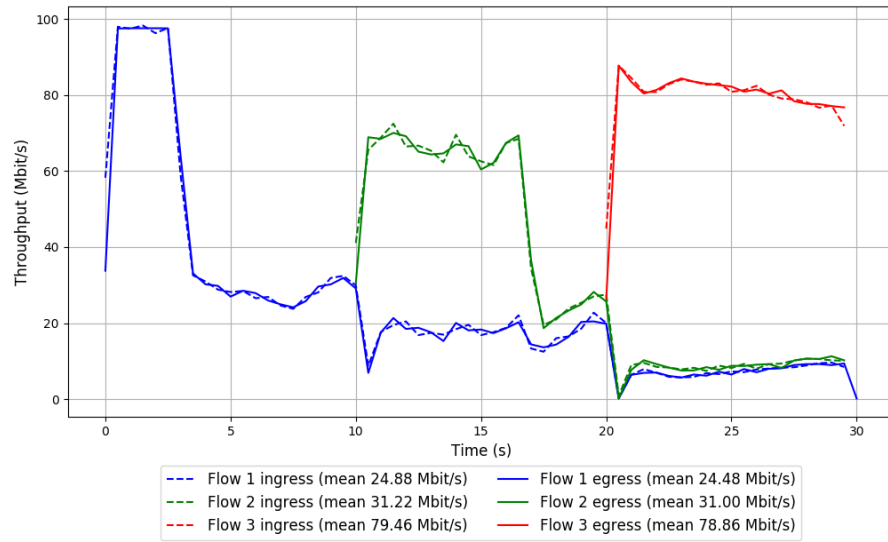


Run 8: Statistics of TCP Vegas

Start at: 2018-03-21 07:43:26  
End at: 2018-03-21 07:43:56  
Local clock offset: -0.478 ms  
Remote clock offset: -1.027 ms

# Below is generated by plot.py at 2018-03-21 09:26:32  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 71.28 Mbit/s  
95th percentile per-packet one-way delay: 51.129 ms  
Loss rate: 1.02%  
-- Flow 1:  
Average throughput: 24.48 Mbit/s  
95th percentile per-packet one-way delay: 52.884 ms  
Loss rate: 1.59%  
-- Flow 2:  
Average throughput: 31.00 Mbit/s  
95th percentile per-packet one-way delay: 42.220 ms  
Loss rate: 0.70%  
-- Flow 3:  
Average throughput: 78.86 Mbit/s  
95th percentile per-packet one-way delay: 49.224 ms  
Loss rate: 0.75%

# Run 8: Report of TCP Vegas — Data Link

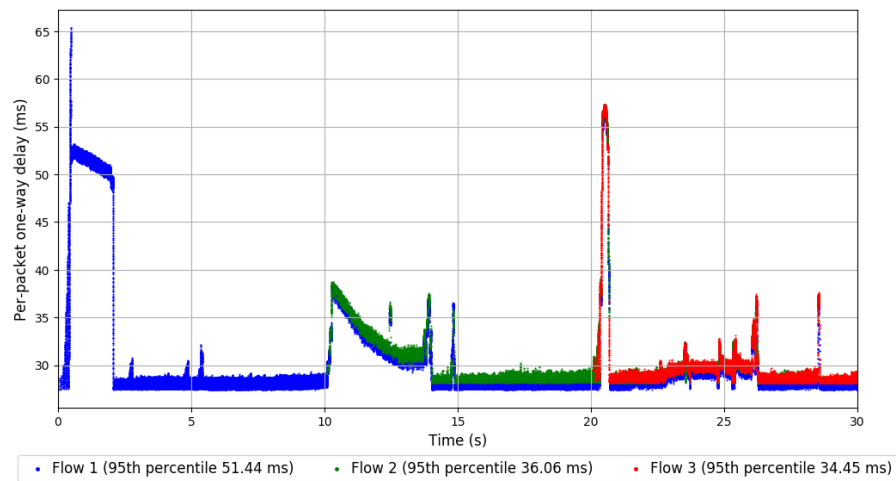
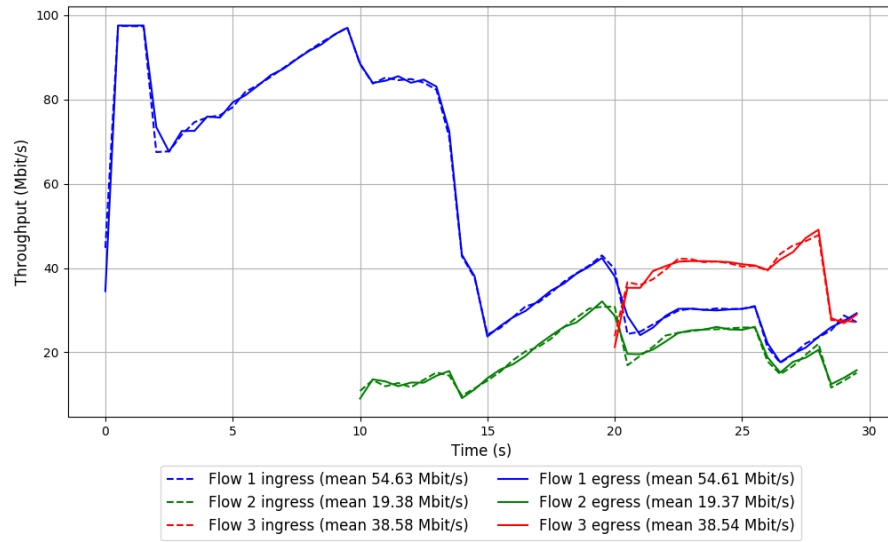


Run 9: Statistics of TCP Vegas

Start at: 2018-03-21 08:10:29  
End at: 2018-03-21 08:10:59  
Local clock offset: -0.507 ms  
Remote clock offset: -0.722 ms

# Below is generated by plot.py at 2018-03-21 09:26:32  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 80.30 Mbit/s  
95th percentile per-packet one-way delay: 51.021 ms  
Loss rate: 0.05%  
-- Flow 1:  
Average throughput: 54.61 Mbit/s  
95th percentile per-packet one-way delay: 51.442 ms  
Loss rate: 0.04%  
-- Flow 2:  
Average throughput: 19.37 Mbit/s  
95th percentile per-packet one-way delay: 36.064 ms  
Loss rate: 0.06%  
-- Flow 3:  
Average throughput: 38.54 Mbit/s  
95th percentile per-packet one-way delay: 34.451 ms  
Loss rate: 0.12%

# Run 9: Report of TCP Vegas — Data Link

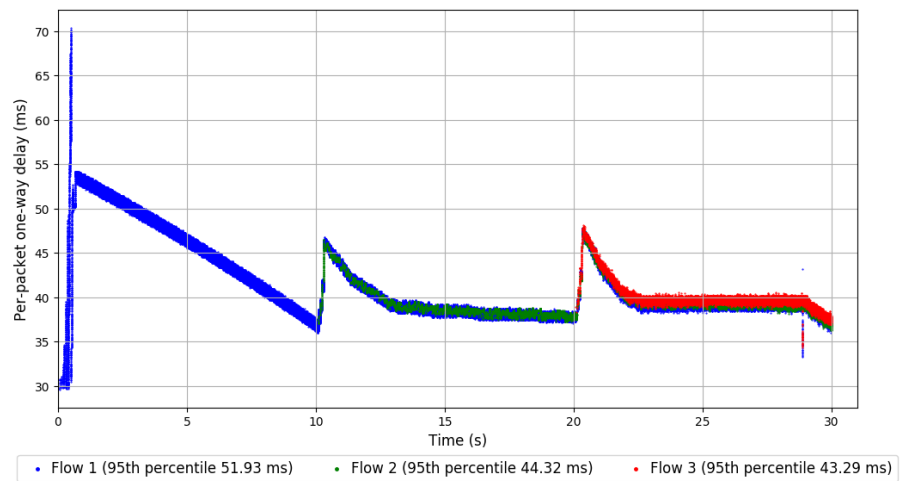
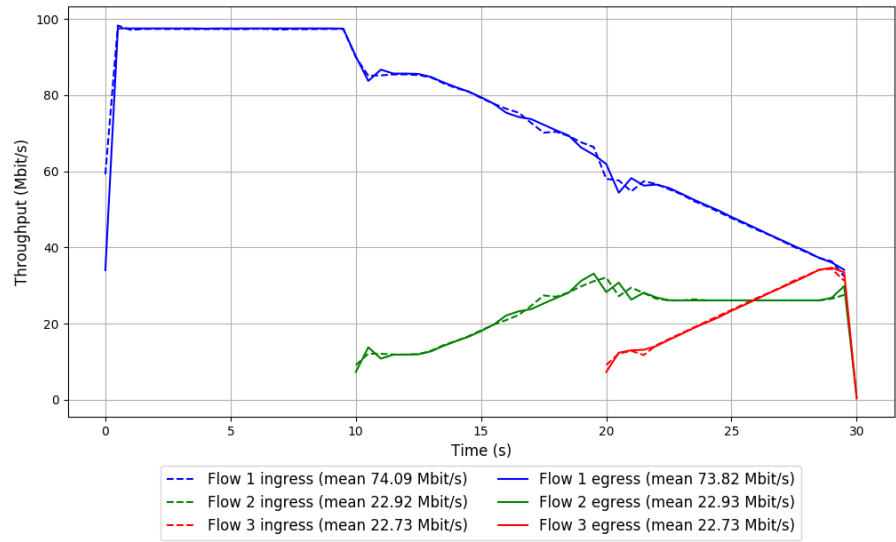


Run 10: Statistics of TCP Vegas

Start at: 2018-03-21 08:36:05  
End at: 2018-03-21 08:36:35  
Local clock offset: -0.472 ms  
Remote clock offset: -0.615 ms

# Below is generated by plot.py at 2018-03-21 09:26:32  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.56 Mbit/s  
95th percentile per-packet one-way delay: 51.413 ms  
Loss rate: 0.27%  
-- Flow 1:  
Average throughput: 73.82 Mbit/s  
95th percentile per-packet one-way delay: 51.933 ms  
Loss rate: 0.35%  
-- Flow 2:  
Average throughput: 22.93 Mbit/s  
95th percentile per-packet one-way delay: 44.321 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 22.73 Mbit/s  
95th percentile per-packet one-way delay: 43.293 ms  
Loss rate: 0.02%

# Run 10: Report of TCP Vegas — Data Link



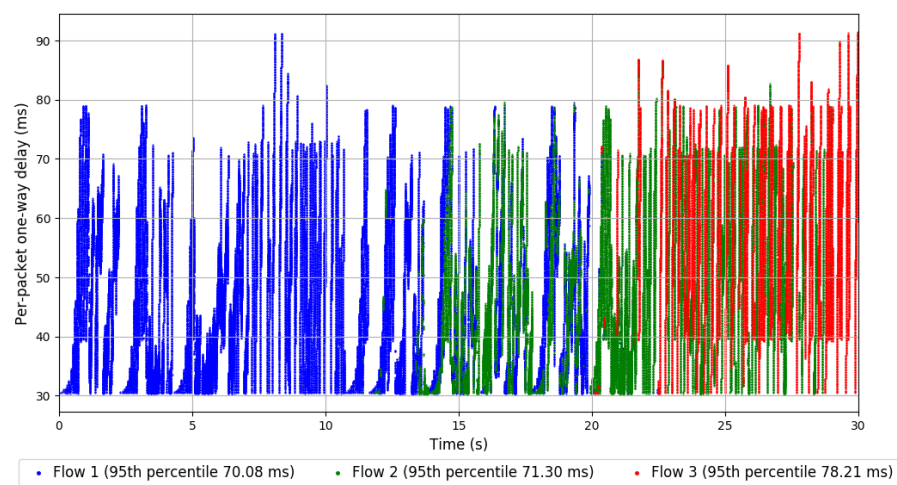
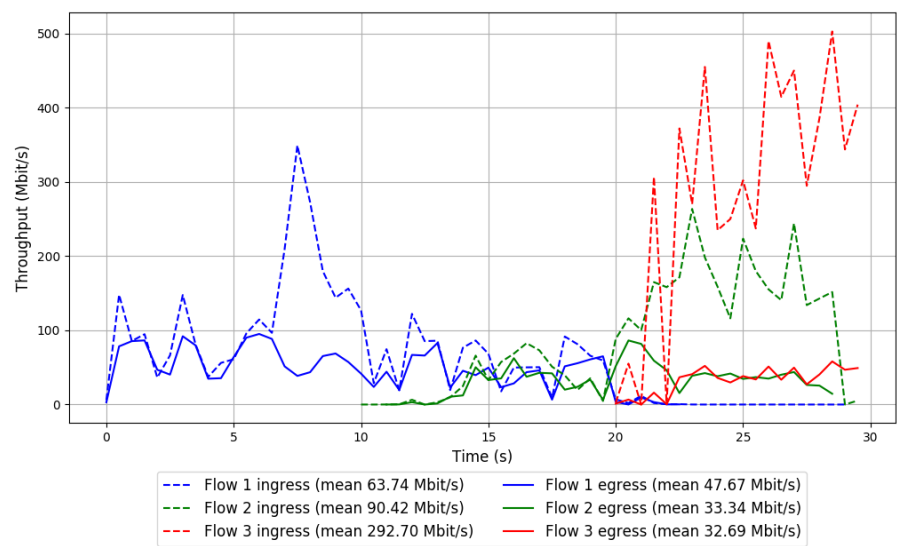
Run 1: Statistics of Verus

Start at: 2018-03-21 04:22:08  
End at: 2018-03-21 04:22:38  
Local clock offset: 0.267 ms  
Remote clock offset: -2.102 ms

# Below is generated by plot.py at 2018-03-21 09:26:46  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 66.24 Mbit/s  
95th percentile per-packet one-way delay: 72.688 ms  
Loss rate: 69.47%  
-- Flow 1:  
Average throughput: 47.67 Mbit/s  
95th percentile per-packet one-way delay: 70.077 ms  
Loss rate: 42.50%  
-- Flow 2:  
Average throughput: 33.34 Mbit/s  
95th percentile per-packet one-way delay: 71.297 ms  
Loss rate: 66.37%  
-- Flow 3:  
Average throughput: 32.69 Mbit/s  
95th percentile per-packet one-way delay: 78.211 ms  
Loss rate: 88.77%



Run 1: Report of Verus — Data Link

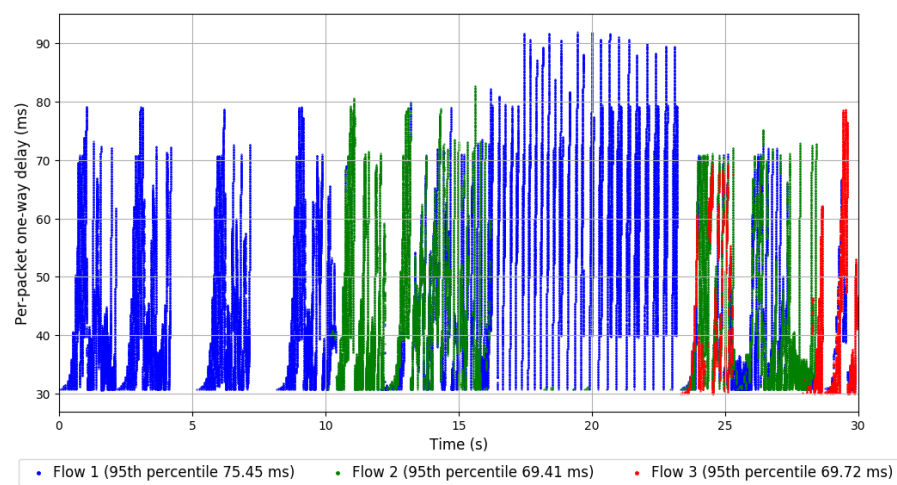
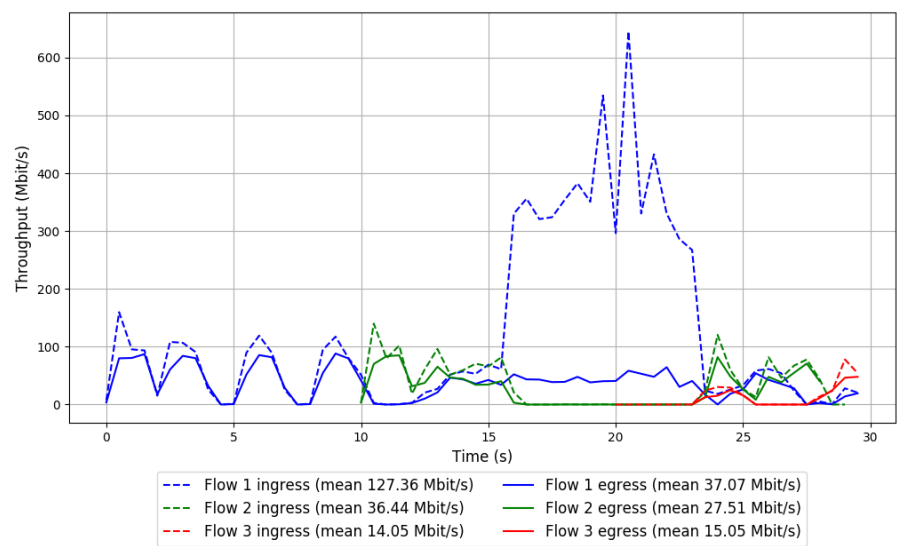


Run 2: Statistics of Verus

Start at: 2018-03-21 04:51:39  
End at: 2018-03-21 04:52:09  
Local clock offset: -0.483 ms  
Remote clock offset: -0.384 ms

# Below is generated by plot.py at 2018-03-21 09:26:46  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 57.28 Mbit/s  
95th percentile per-packet one-way delay: 73.123 ms  
Loss rate: 63.13%  
-- Flow 1:  
Average throughput: 37.07 Mbit/s  
95th percentile per-packet one-way delay: 75.451 ms  
Loss rate: 70.88%  
-- Flow 2:  
Average throughput: 27.51 Mbit/s  
95th percentile per-packet one-way delay: 69.407 ms  
Loss rate: 28.36%  
-- Flow 3:  
Average throughput: 15.05 Mbit/s  
95th percentile per-packet one-way delay: 69.722 ms  
Loss rate: 26.18%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-03-21 05:22:22

End at: 2018-03-21 05:22:52

Local clock offset: -0.25 ms

Remote clock offset: 0.317 ms

# Below is generated by plot.py at 2018-03-21 09:26:46

# Datalink statistics

-- Total of 3 flows:

Average throughput: 66.78 Mbit/s

95th percentile per-packet one-way delay: 69.154 ms

Loss rate: 34.99%

-- Flow 1:

Average throughput: 41.58 Mbit/s

95th percentile per-packet one-way delay: 68.288 ms

Loss rate: 28.75%

-- Flow 2:

Average throughput: 36.04 Mbit/s

95th percentile per-packet one-way delay: 70.388 ms

Loss rate: 43.84%

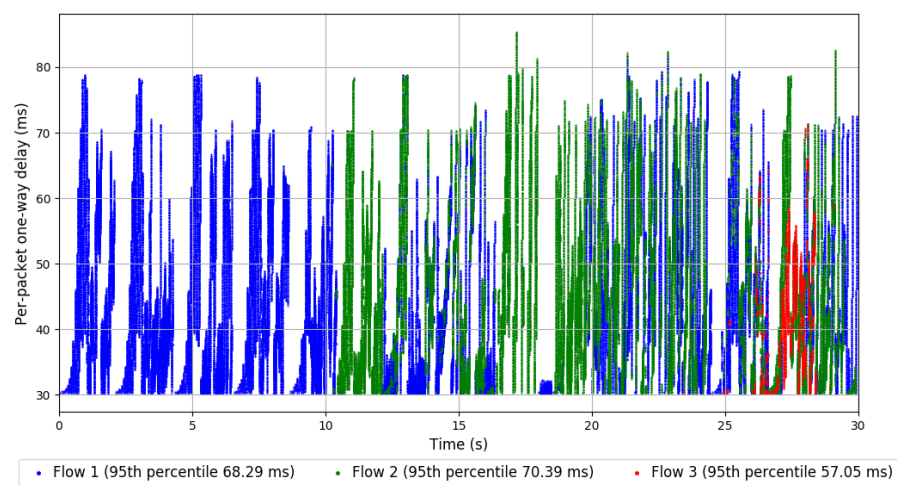
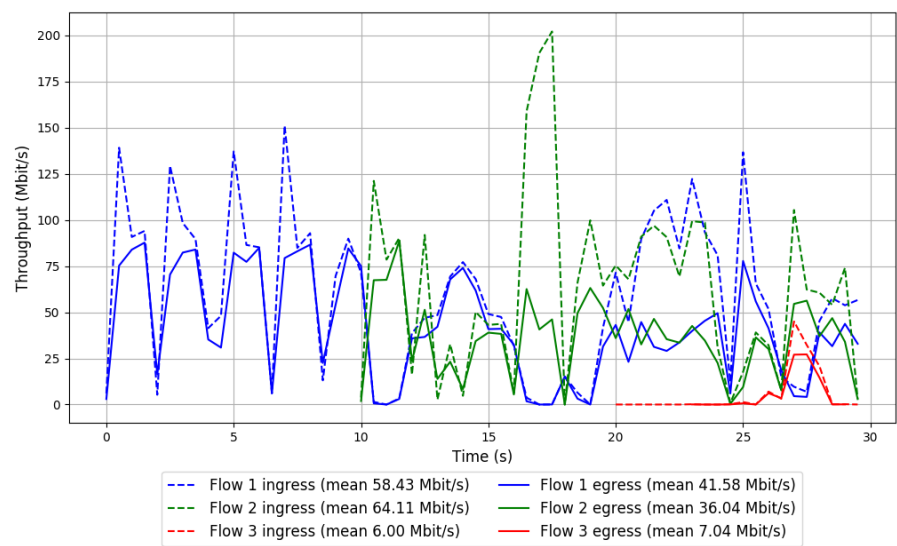
-- Flow 3:

Average throughput: 7.04 Mbit/s

95th percentile per-packet one-way delay: 57.046 ms

Loss rate: 28.14%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-03-21 05:50:42

End at: 2018-03-21 05:51:12

Local clock offset: -0.148 ms

Remote clock offset: -0.68 ms

# Below is generated by plot.py at 2018-03-21 09:27:01

# Datalink statistics

-- Total of 3 flows:

Average throughput: 57.22 Mbit/s

95th percentile per-packet one-way delay: 72.772 ms

Loss rate: 64.28%

-- Flow 1:

Average throughput: 30.69 Mbit/s

95th percentile per-packet one-way delay: 73.075 ms

Loss rate: 60.23%

-- Flow 2:

Average throughput: 30.56 Mbit/s

95th percentile per-packet one-way delay: 73.587 ms

Loss rate: 72.60%

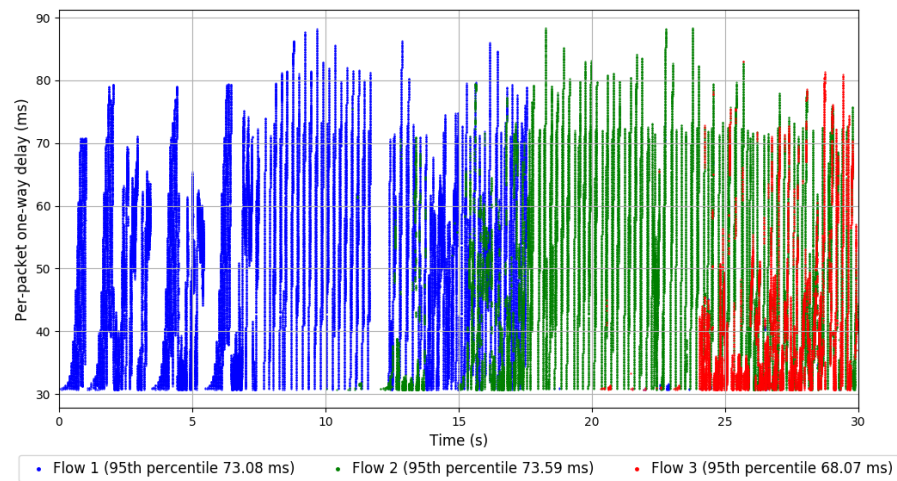
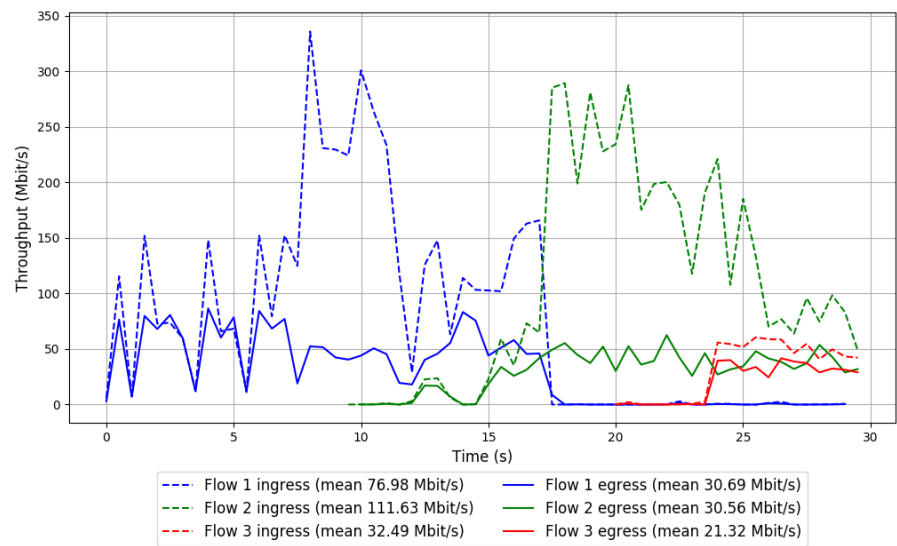
-- Flow 3:

Average throughput: 21.32 Mbit/s

95th percentile per-packet one-way delay: 68.070 ms

Loss rate: 34.33%

Run 4: Report of Verus — Data Link



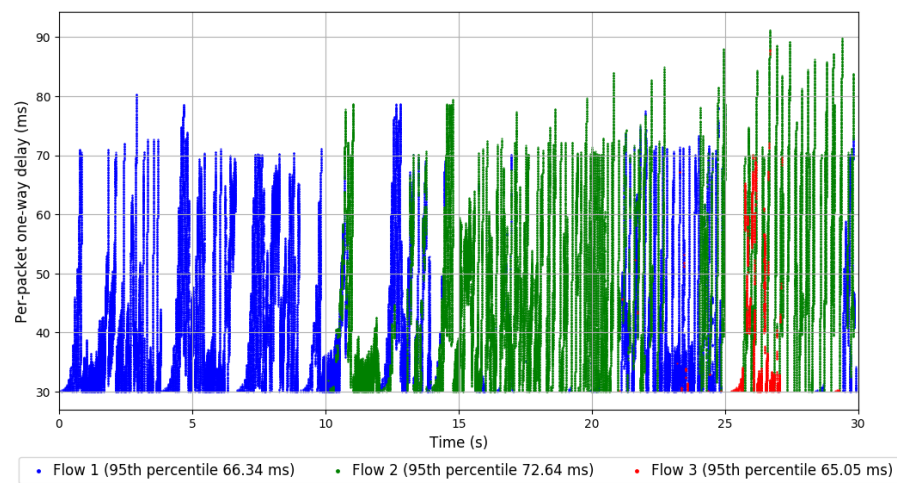
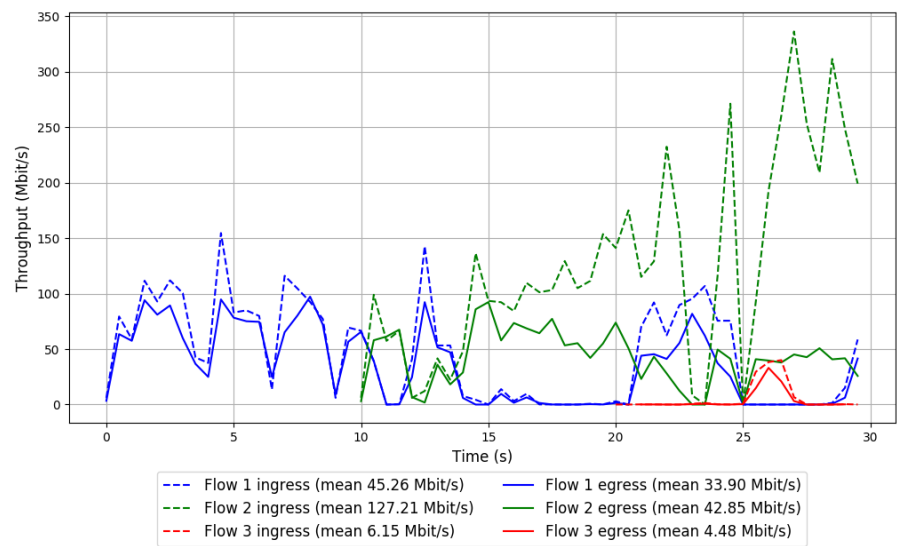
Run 5: Statistics of Verus

Start at: 2018-03-21 06:19:50  
End at: 2018-03-21 06:20:20  
Local clock offset: -0.225 ms  
Remote clock offset: -1.91 ms

# Below is generated by plot.py at 2018-03-21 09:27:19  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 63.49 Mbit/s  
95th percentile per-packet one-way delay: 69.309 ms  
Loss rate: 51.67%  
-- Flow 1:  
Average throughput: 33.90 Mbit/s  
95th percentile per-packet one-way delay: 66.337 ms  
Loss rate: 25.08%  
-- Flow 2:  
Average throughput: 42.85 Mbit/s  
95th percentile per-packet one-way delay: 72.642 ms  
Loss rate: 66.29%  
-- Flow 3:  
Average throughput: 4.48 Mbit/s  
95th percentile per-packet one-way delay: 65.054 ms  
Loss rate: 37.82%



Run 5: Report of Verus — Data Link

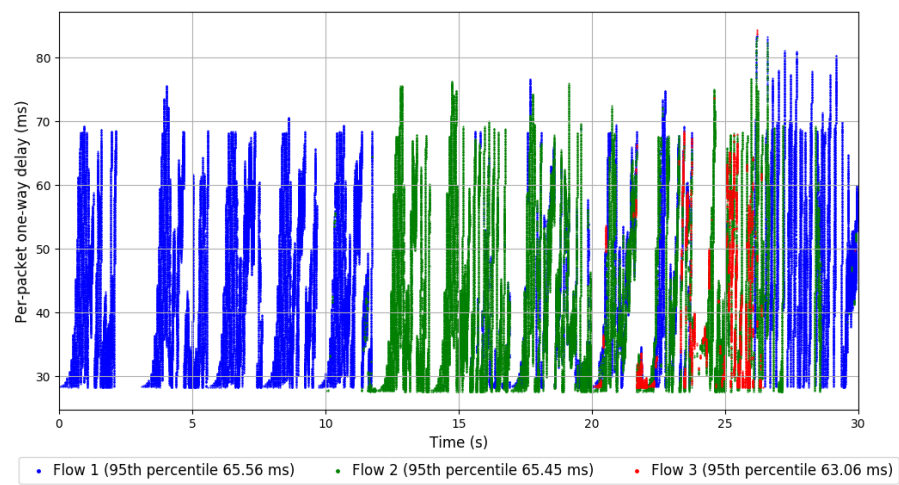
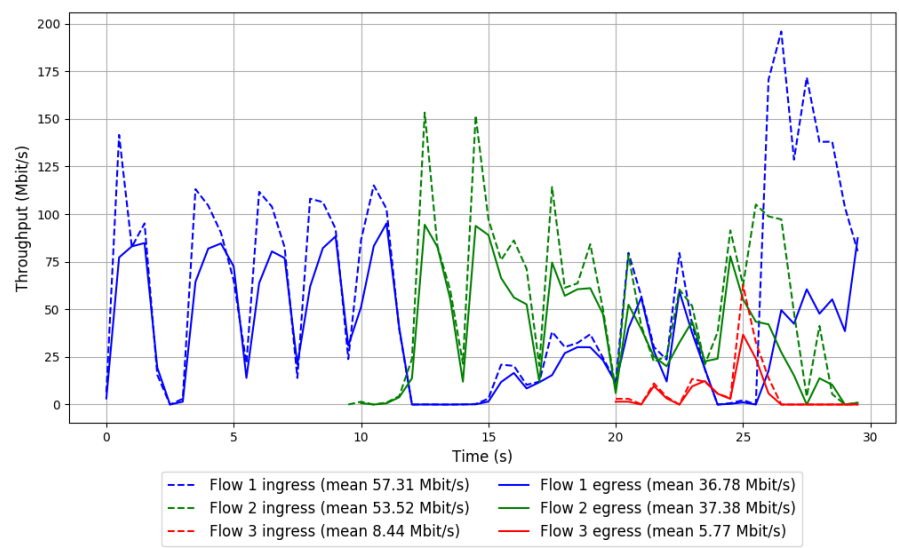


Run 6: Statistics of Verus

Start at: 2018-03-21 06:47:11  
End at: 2018-03-21 06:47:41  
Local clock offset: -0.275 ms  
Remote clock offset: -3.225 ms

# Below is generated by plot.py at 2018-03-21 09:27:29  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 63.52 Mbit/s  
95th percentile per-packet one-way delay: 65.445 ms  
Loss rate: 33.52%  
-- Flow 1:  
Average throughput: 36.78 Mbit/s  
95th percentile per-packet one-way delay: 65.558 ms  
Loss rate: 35.76%  
-- Flow 2:  
Average throughput: 37.38 Mbit/s  
95th percentile per-packet one-way delay: 65.450 ms  
Loss rate: 30.07%  
-- Flow 3:  
Average throughput: 5.77 Mbit/s  
95th percentile per-packet one-way delay: 63.058 ms  
Loss rate: 31.48%

Run 6: Report of Verus — Data Link

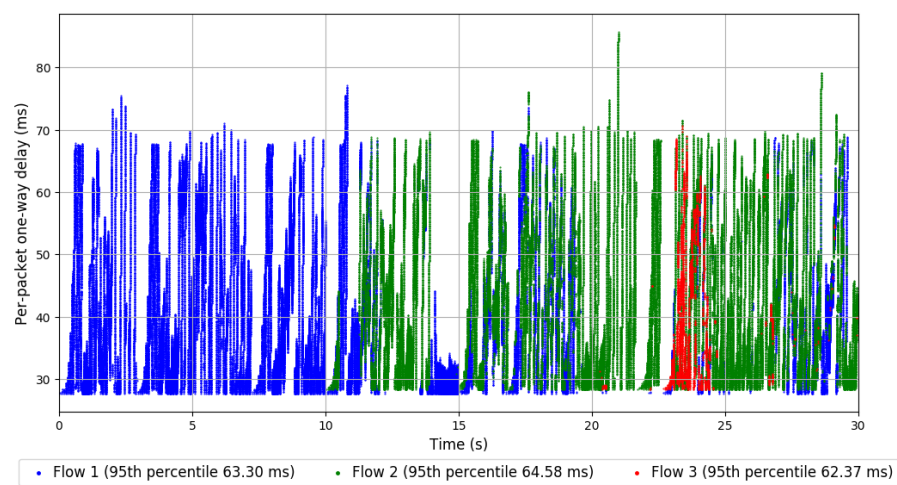
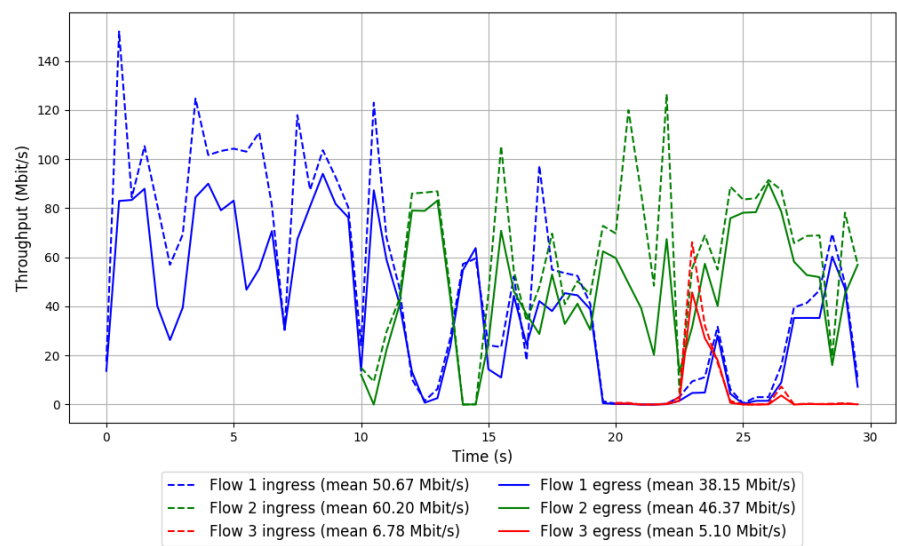


Run 7: Statistics of Verus

Start at: 2018-03-21 07:14:58  
End at: 2018-03-21 07:15:28  
Local clock offset: -0.147 ms  
Remote clock offset: -3.568 ms

# Below is generated by plot.py at 2018-03-21 09:27:38  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 70.17 Mbit/s  
95th percentile per-packet one-way delay: 63.871 ms  
Loss rate: 23.92%  
-- Flow 1:  
Average throughput: 38.15 Mbit/s  
95th percentile per-packet one-way delay: 63.305 ms  
Loss rate: 24.68%  
-- Flow 2:  
Average throughput: 46.37 Mbit/s  
95th percentile per-packet one-way delay: 64.585 ms  
Loss rate: 22.92%  
-- Flow 3:  
Average throughput: 5.10 Mbit/s  
95th percentile per-packet one-way delay: 62.373 ms  
Loss rate: 24.76%

Run 7: Report of Verus — Data Link

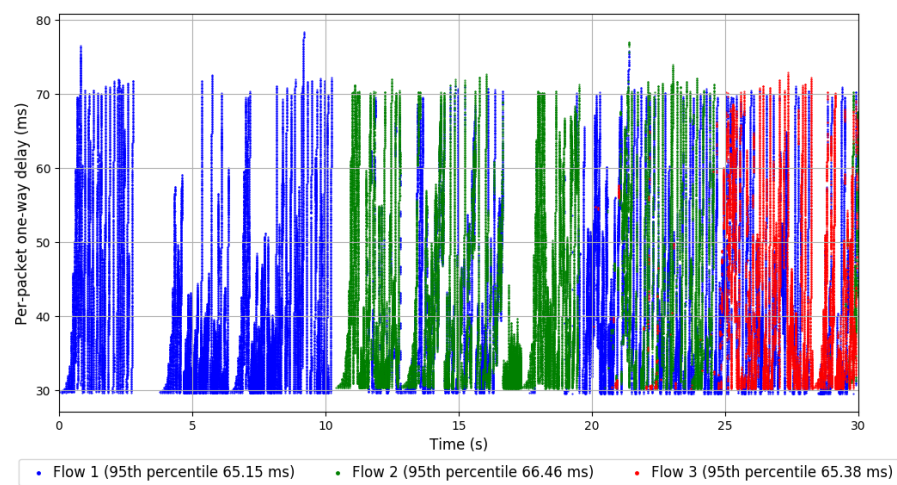
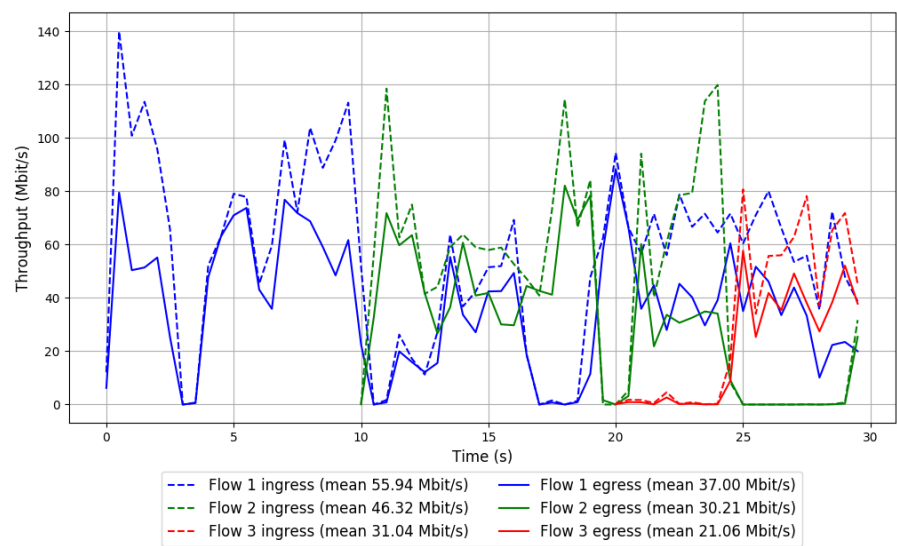


Run 8: Statistics of Verus

Start at: 2018-03-21 07:41:46  
End at: 2018-03-21 07:42:16  
Local clock offset: -0.542 ms  
Remote clock offset: -1.989 ms

# Below is generated by plot.py at 2018-03-21 09:27:43  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 63.72 Mbit/s  
95th percentile per-packet one-way delay: 65.613 ms  
Loss rate: 33.87%  
-- Flow 1:  
Average throughput: 37.00 Mbit/s  
95th percentile per-packet one-way delay: 65.146 ms  
Loss rate: 33.78%  
-- Flow 2:  
Average throughput: 30.21 Mbit/s  
95th percentile per-packet one-way delay: 66.458 ms  
Loss rate: 34.66%  
-- Flow 3:  
Average throughput: 21.06 Mbit/s  
95th percentile per-packet one-way delay: 65.380 ms  
Loss rate: 31.99%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-03-21 08:09:05

End at: 2018-03-21 08:09:35

Local clock offset: -0.506 ms

Remote clock offset: 1.374 ms

# Below is generated by plot.py at 2018-03-21 09:27:57

# Datalink statistics

-- Total of 3 flows:

Average throughput: 71.05 Mbit/s

95th percentile per-packet one-way delay: 66.098 ms

Loss rate: 31.85%

-- Flow 1:

Average throughput: 44.42 Mbit/s

95th percentile per-packet one-way delay: 65.524 ms

Loss rate: 23.38%

-- Flow 2:

Average throughput: 30.98 Mbit/s

95th percentile per-packet one-way delay: 67.238 ms

Loss rate: 43.72%

-- Flow 3:

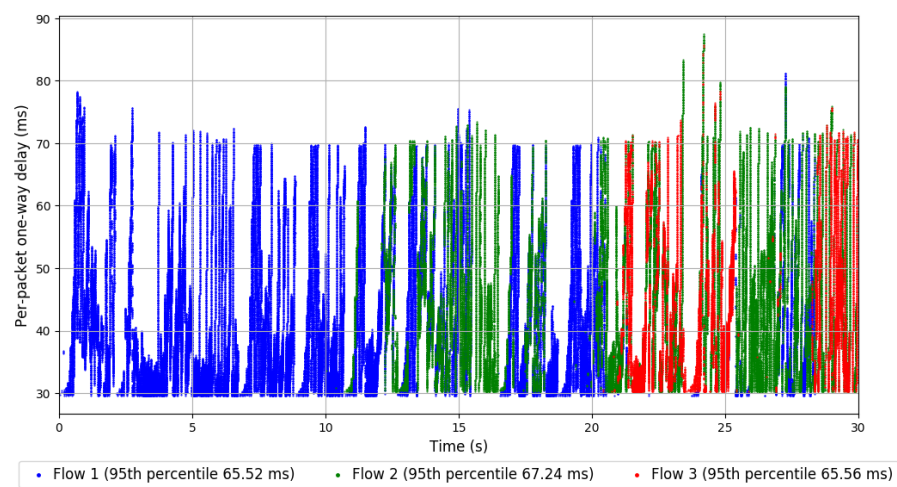
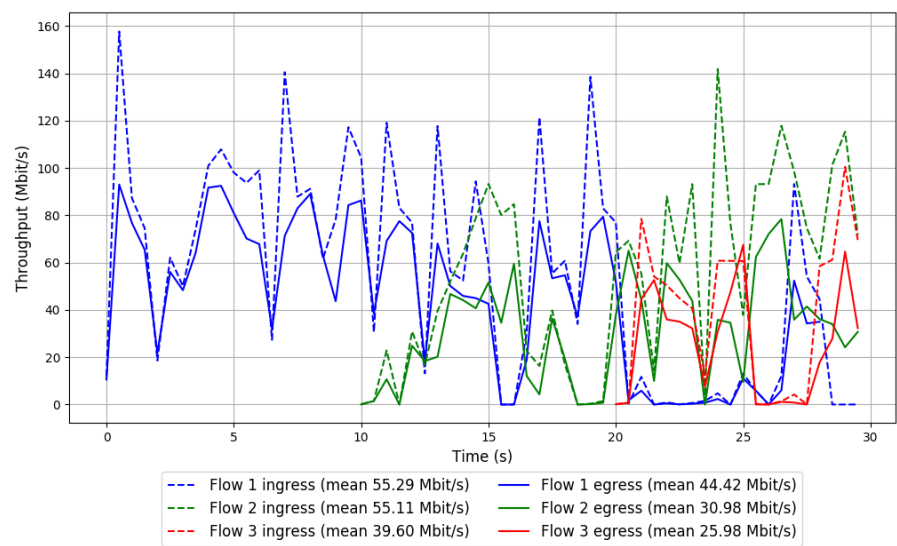
Average throughput: 25.98 Mbit/s

95th percentile per-packet one-way delay: 65.564 ms

Loss rate: 34.28%



Run 9: Report of Verus — Data Link

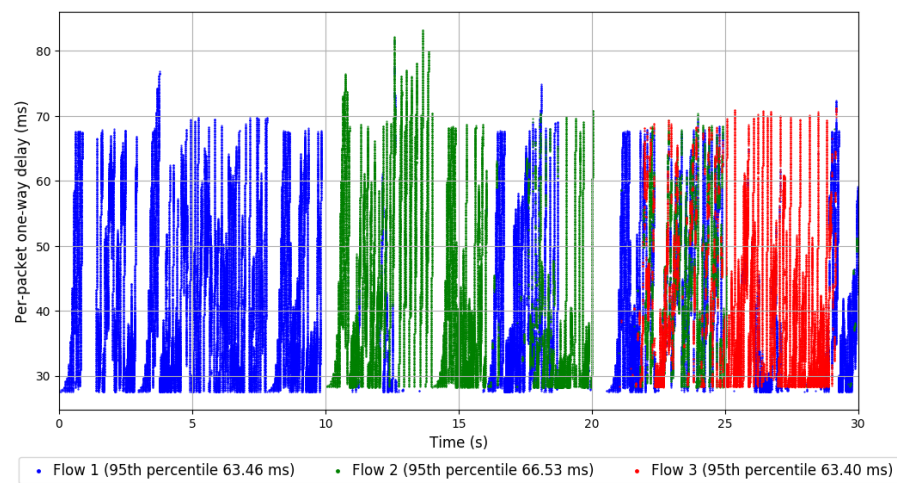
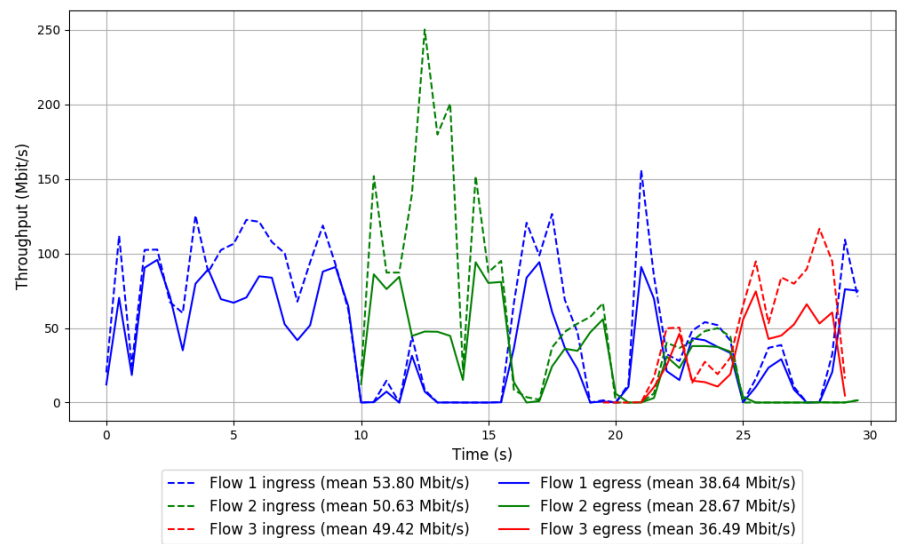


Run 10: Statistics of Verus

Start at: 2018-03-21 08:34:41  
End at: 2018-03-21 08:35:11  
Local clock offset: -0.448 ms  
Remote clock offset: -2.617 ms

# Below is generated by plot.py at 2018-03-21 09:27:57  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 67.61 Mbit/s  
95th percentile per-packet one-way delay: 64.311 ms  
Loss rate: 33.98%  
-- Flow 1:  
Average throughput: 38.64 Mbit/s  
95th percentile per-packet one-way delay: 63.458 ms  
Loss rate: 28.11%  
-- Flow 2:  
Average throughput: 28.67 Mbit/s  
95th percentile per-packet one-way delay: 66.535 ms  
Loss rate: 43.31%  
-- Flow 3:  
Average throughput: 36.49 Mbit/s  
95th percentile per-packet one-way delay: 63.403 ms  
Loss rate: 34.06%

Run 10: Report of Verus — Data Link

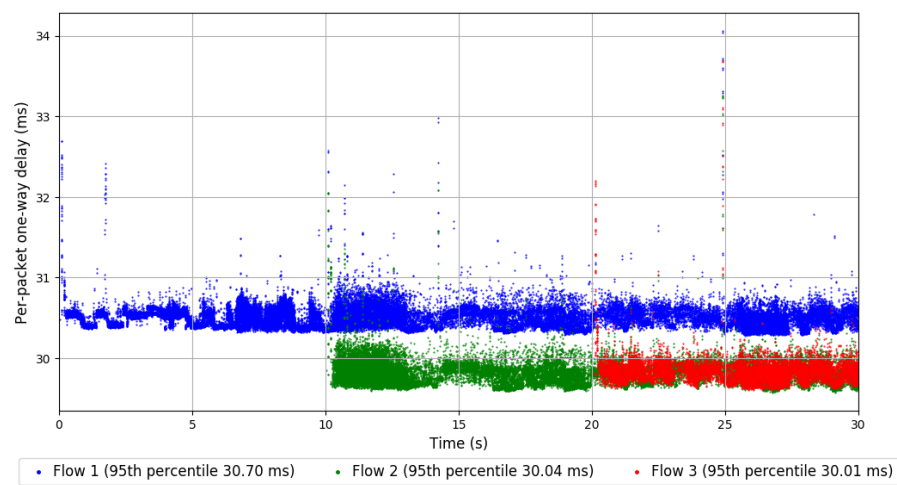
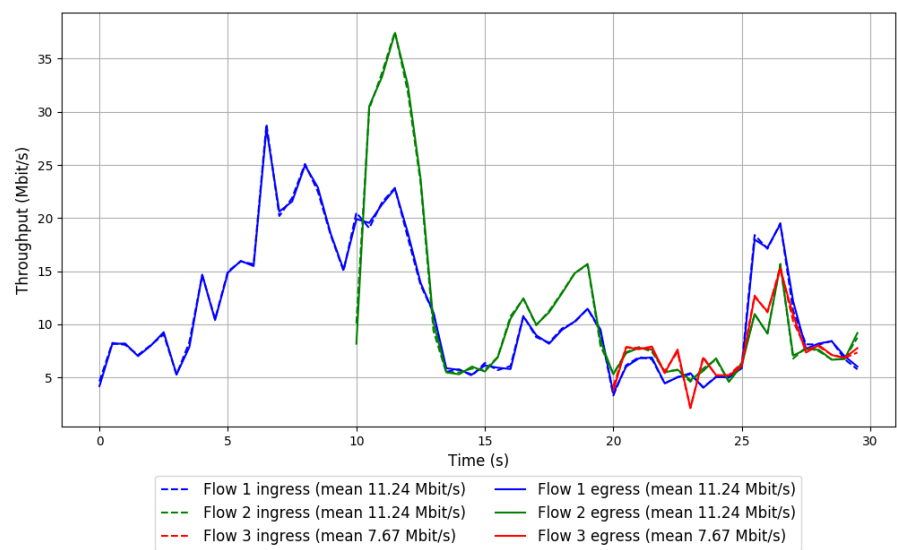


Run 1: Statistics of Copa

Start at: 2018-03-21 04:31:05  
End at: 2018-03-21 04:31:35  
Local clock offset: 0.118 ms  
Remote clock offset: -1.616 ms

# Below is generated by plot.py at 2018-03-21 09:27:57  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 21.27 Mbit/s  
95th percentile per-packet one-way delay: 30.644 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 11.24 Mbit/s  
95th percentile per-packet one-way delay: 30.696 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 11.24 Mbit/s  
95th percentile per-packet one-way delay: 30.037 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 7.67 Mbit/s  
95th percentile per-packet one-way delay: 30.012 ms  
Loss rate: 0.00%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-03-21 04:58:53

End at: 2018-03-21 04:59:23

Local clock offset: -0.587 ms

Remote clock offset: -1.07 ms

# Below is generated by plot.py at 2018-03-21 09:34:40

# Datalink statistics

-- Total of 3 flows:

Average throughput: 88.40 Mbit/s

95th percentile per-packet one-way delay: 59.179 ms

Loss rate: 86.06%

-- Flow 1:

Average throughput: 88.40 Mbit/s

95th percentile per-packet one-way delay: 59.179 ms

Loss rate: 86.06%

-- Flow 2:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 55.176 ms

Loss rate: 66.67%

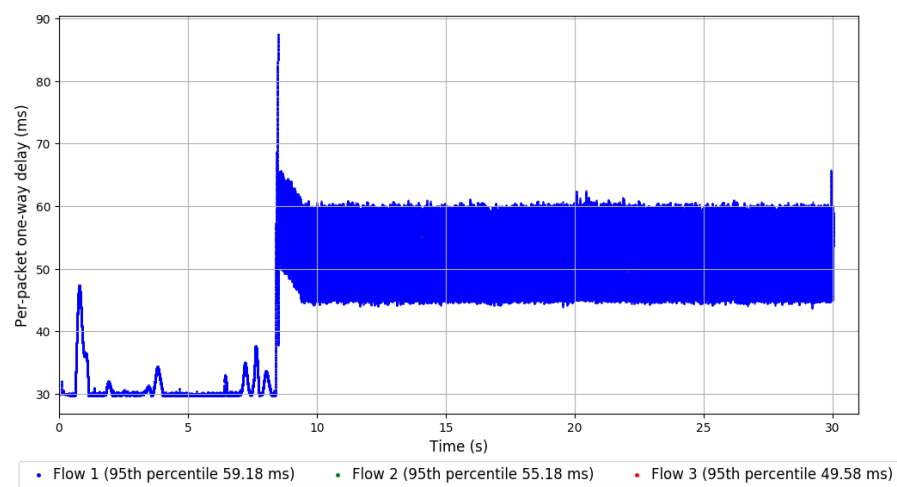
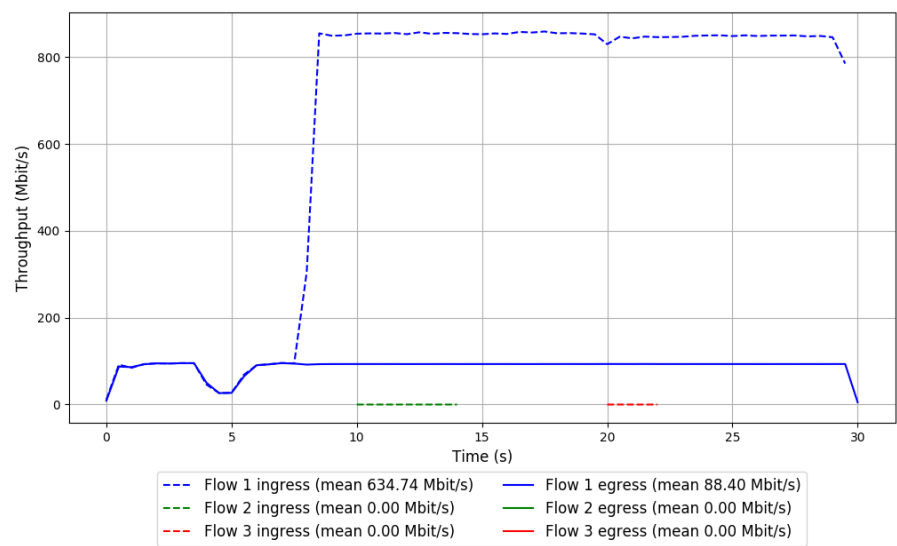
-- Flow 3:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 49.583 ms

Loss rate: 50.00%

Run 2: Report of Copa — Data Link



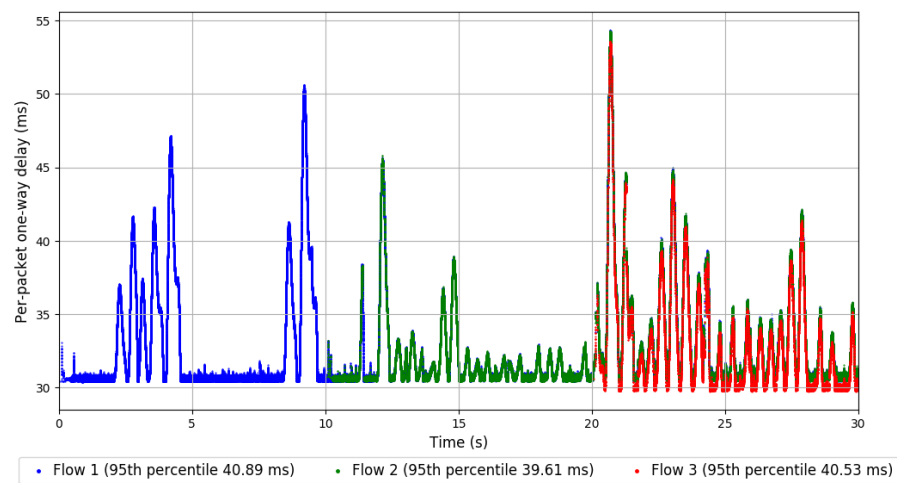
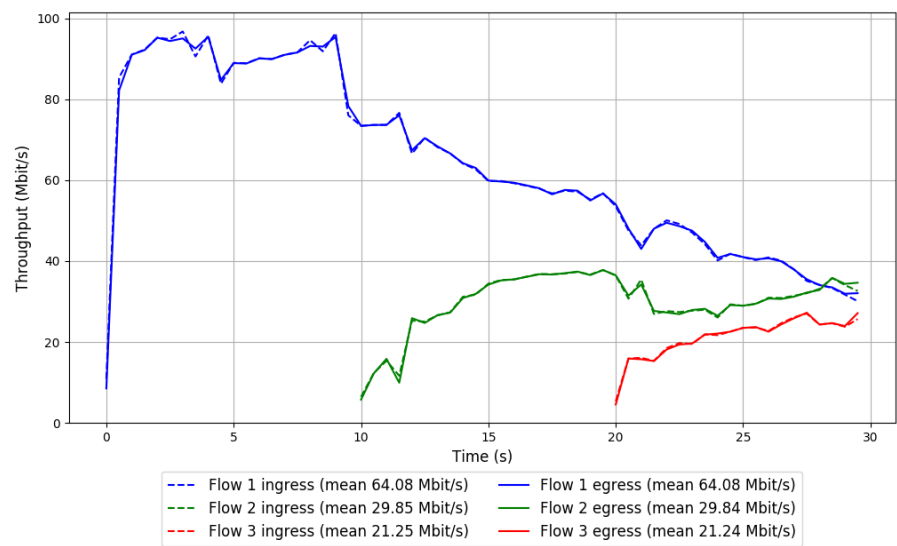
Run 3: Statistics of Copa

Start at: 2018-03-21 05:29:29  
End at: 2018-03-21 05:29:59  
Local clock offset: -0.113 ms  
Remote clock offset: -0.928 ms

# Below is generated by plot.py at 2018-03-21 09:34:40  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 90.99 Mbit/s  
95th percentile per-packet one-way delay: 40.684 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 64.08 Mbit/s  
95th percentile per-packet one-way delay: 40.890 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 29.84 Mbit/s  
95th percentile per-packet one-way delay: 39.610 ms  
Loss rate: 0.04%  
-- Flow 3:  
Average throughput: 21.24 Mbit/s  
95th percentile per-packet one-way delay: 40.531 ms  
Loss rate: 0.04%



Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-03-21 05:59:14

End at: 2018-03-21 05:59:44

Local clock offset: -0.257 ms

Remote clock offset: -1.17 ms

# Below is generated by plot.py at 2018-03-21 09:37:07

# Datalink statistics

-- Total of 3 flows:

Average throughput: 86.86 Mbit/s

95th percentile per-packet one-way delay: 57.976 ms

Loss rate: 89.43%

-- Flow 1:

Average throughput: 86.86 Mbit/s

95th percentile per-packet one-way delay: 57.976 ms

Loss rate: 89.43%

-- Flow 2:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 55.071 ms

Loss rate: 66.67%

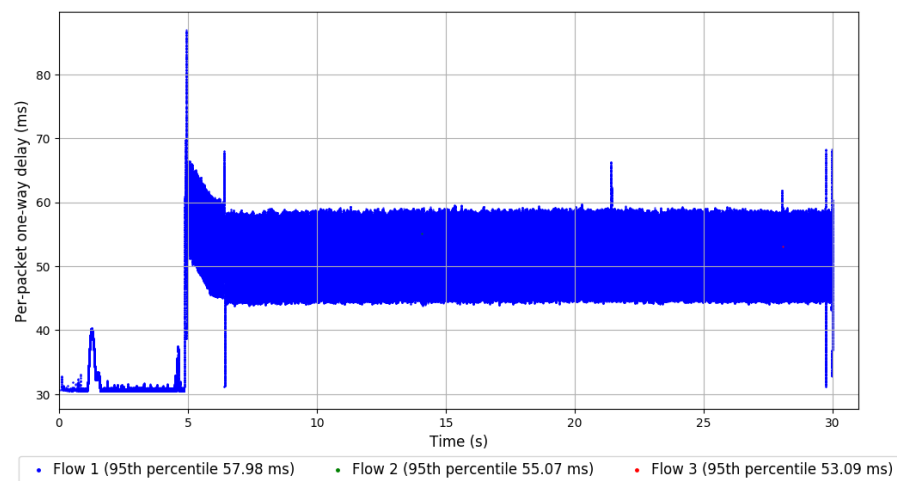
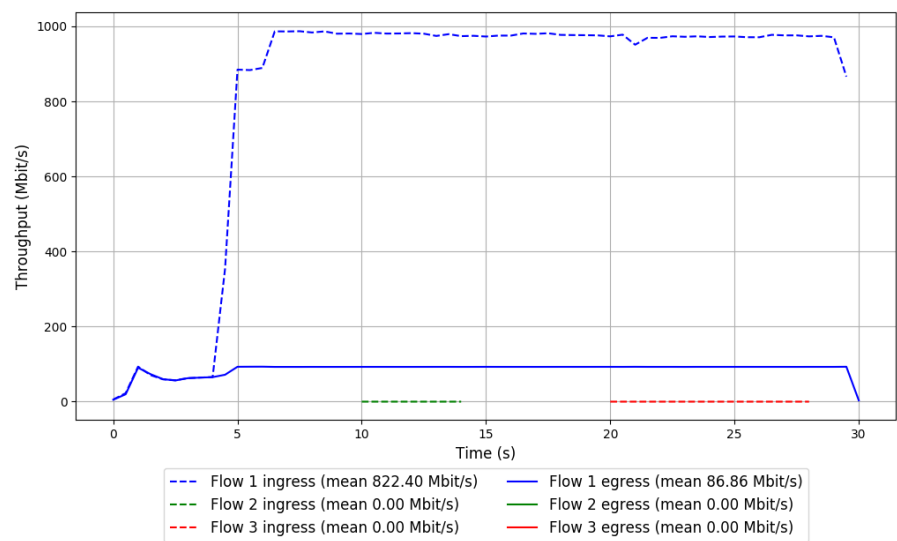
-- Flow 3:

Average throughput: 0.00 Mbit/s

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

Loss rate: 80.00%

Run 4: Report of Copa — Data Link

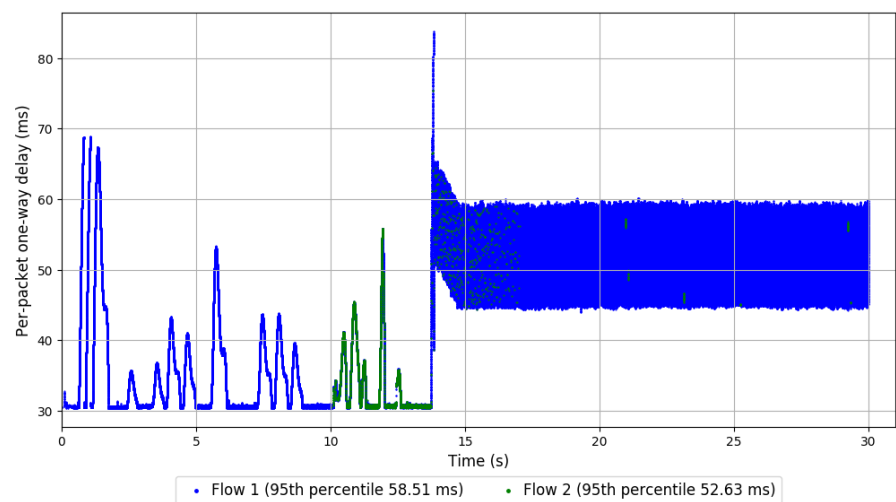
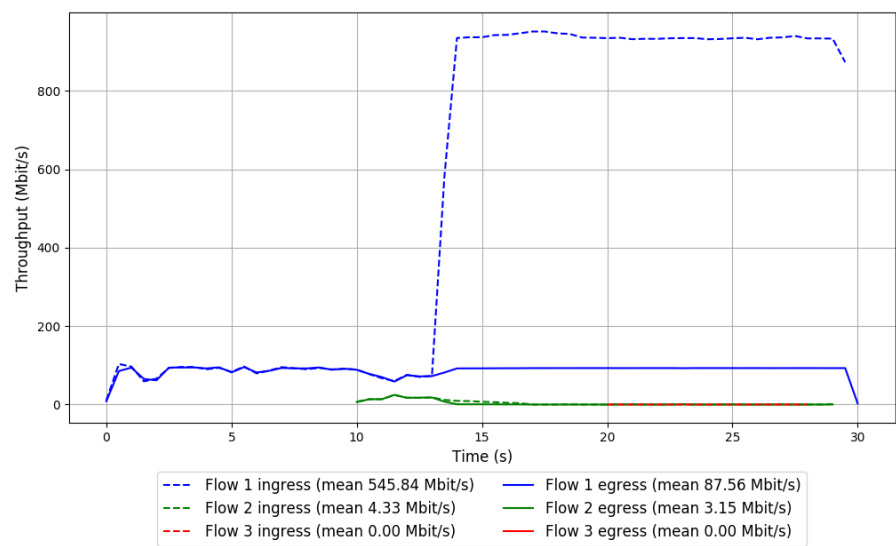


Run 5: Statistics of Copa

Start at: 2018-03-21 06:27:32  
End at: 2018-03-21 06:28:02  
Local clock offset: -0.316 ms  
Remote clock offset: -2.369 ms

# Below is generated by plot.py at 2018-03-21 09:37:07  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 89.58 Mbit/s  
95th percentile per-packet one-way delay: 58.494 ms  
Loss rate: 83.66%  
-- Flow 1:  
Average throughput: 87.56 Mbit/s  
95th percentile per-packet one-way delay: 58.510 ms  
Loss rate: 83.95%  
-- Flow 2:  
Average throughput: 3.15 Mbit/s  
95th percentile per-packet one-way delay: 52.630 ms  
Loss rate: 27.49%  
-- Flow 3:  
Average throughput: 0.00 Mbit/s

Run 5: Report of Copa — Data Link

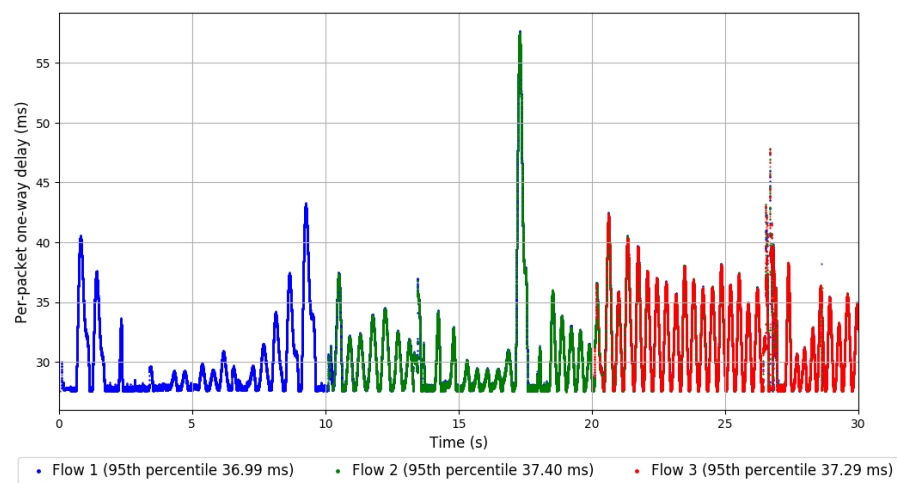
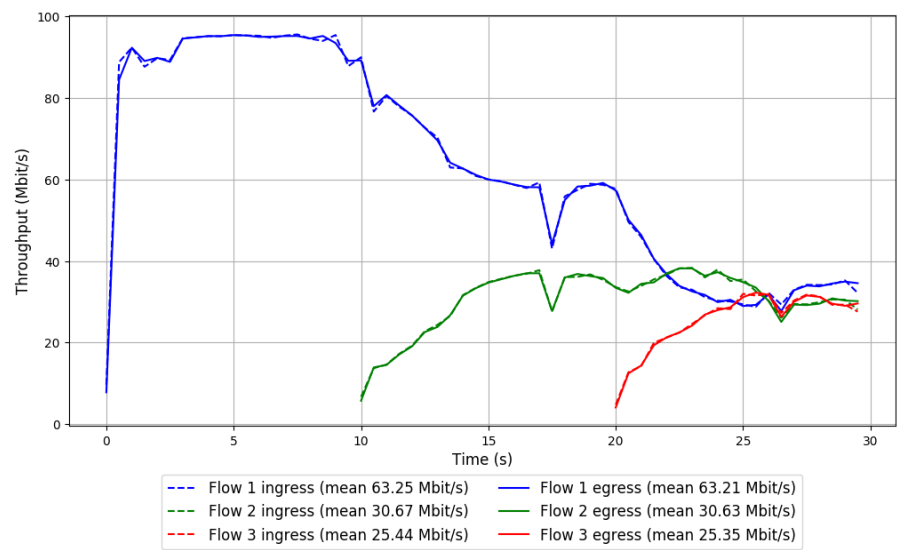


Run 6: Statistics of Copa

Start at: 2018-03-21 06:56:07  
End at: 2018-03-21 06:56:37  
Local clock offset: -0.138 ms  
Remote clock offset: -2.946 ms

# Below is generated by plot.py at 2018-03-21 09:37:07  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.02 Mbit/s  
95th percentile per-packet one-way delay: 37.120 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 63.21 Mbit/s  
95th percentile per-packet one-way delay: 36.990 ms  
Loss rate: 0.05%  
-- Flow 2:  
Average throughput: 30.63 Mbit/s  
95th percentile per-packet one-way delay: 37.401 ms  
Loss rate: 0.12%  
-- Flow 3:  
Average throughput: 25.35 Mbit/s  
95th percentile per-packet one-way delay: 37.292 ms  
Loss rate: 0.30%

Run 6: Report of Copa — Data Link



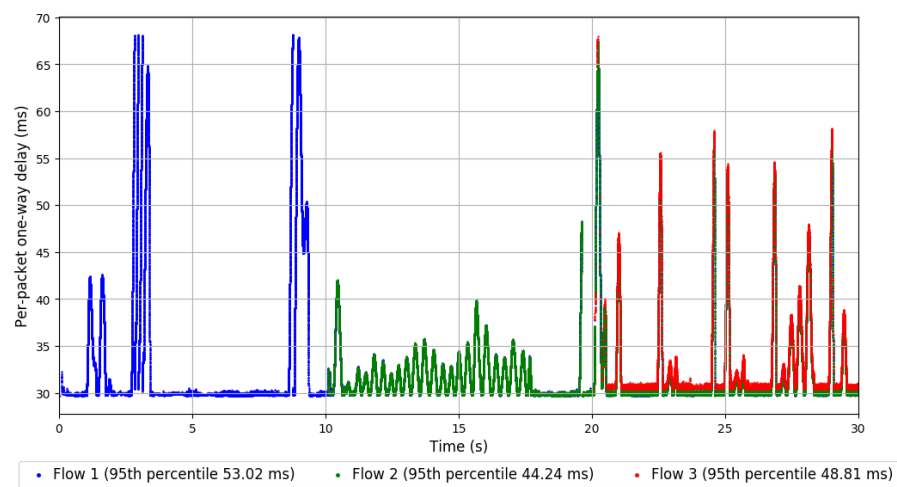
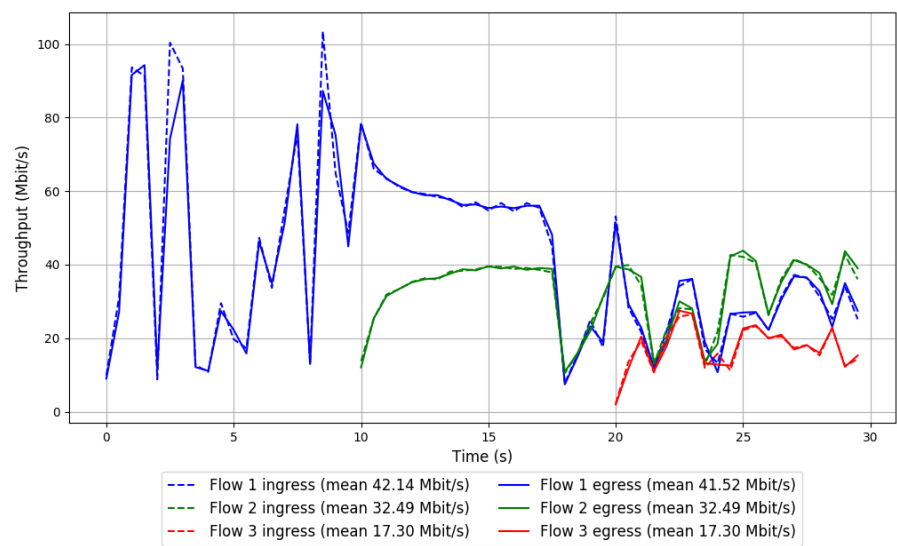
Run 7: Statistics of Copa

Start at: 2018-03-21 07:22:24  
End at: 2018-03-21 07:22:54  
Local clock offset: -0.136 ms  
Remote clock offset: -1.781 ms

```
# Below is generated by plot.py at 2018-03-21 09:37:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 68.89 Mbit/s
95th percentile per-packet one-way delay: 49.858 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 41.52 Mbit/s
95th percentile per-packet one-way delay: 53.023 ms
Loss rate: 1.48%
-- Flow 2:
Average throughput: 32.49 Mbit/s
95th percentile per-packet one-way delay: 44.239 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 17.30 Mbit/s
95th percentile per-packet one-way delay: 48.808 ms
Loss rate: 0.00%
```



Run 7: Report of Copa — Data Link

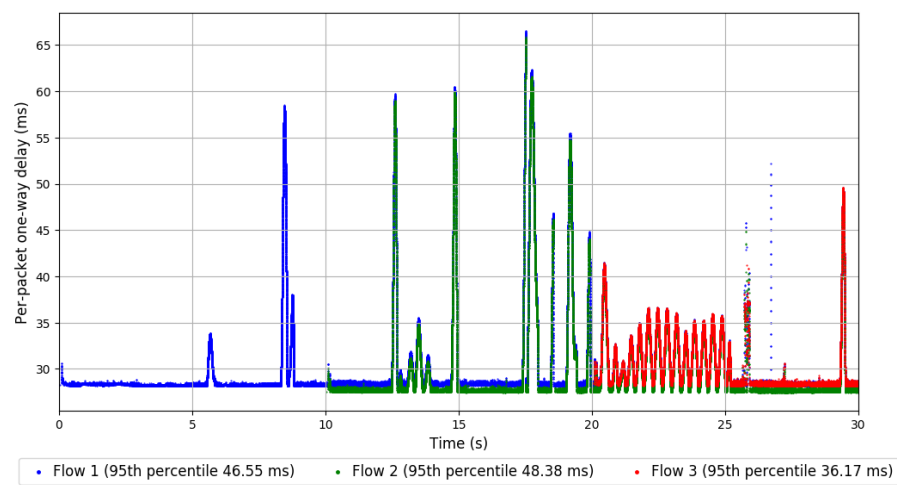
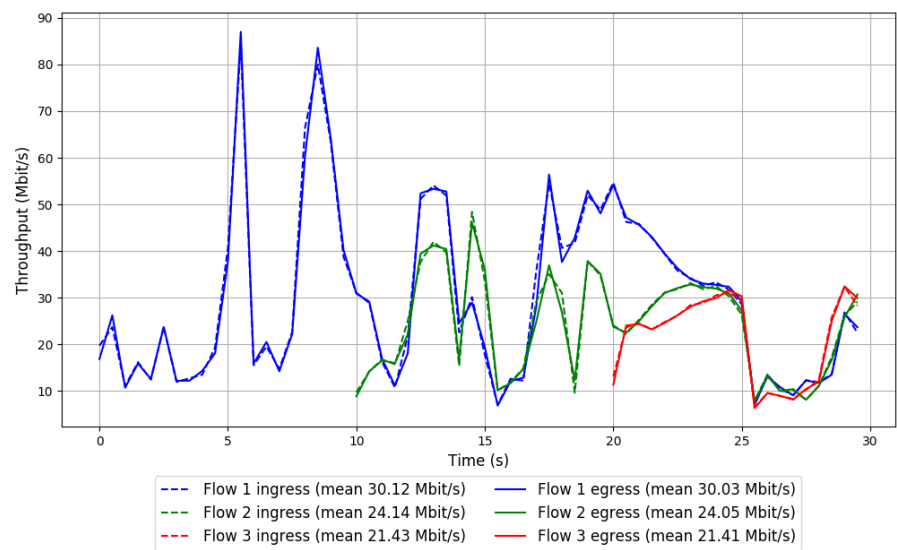


Run 8: Statistics of Copa

Start at: 2018-03-21 07:49:34  
End at: 2018-03-21 07:50:04  
Local clock offset: -0.513 ms  
Remote clock offset: -2.216 ms

```
# Below is generated by plot.py at 2018-03-21 09:37:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 53.16 Mbit/s
95th percentile per-packet one-way delay: 45.580 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 30.03 Mbit/s
95th percentile per-packet one-way delay: 46.550 ms
Loss rate: 0.28%
-- Flow 2:
Average throughput: 24.05 Mbit/s
95th percentile per-packet one-way delay: 48.380 ms
Loss rate: 0.36%
-- Flow 3:
Average throughput: 21.41 Mbit/s
95th percentile per-packet one-way delay: 36.173 ms
Loss rate: 0.13%
```

Run 8: Report of Copa — Data Link

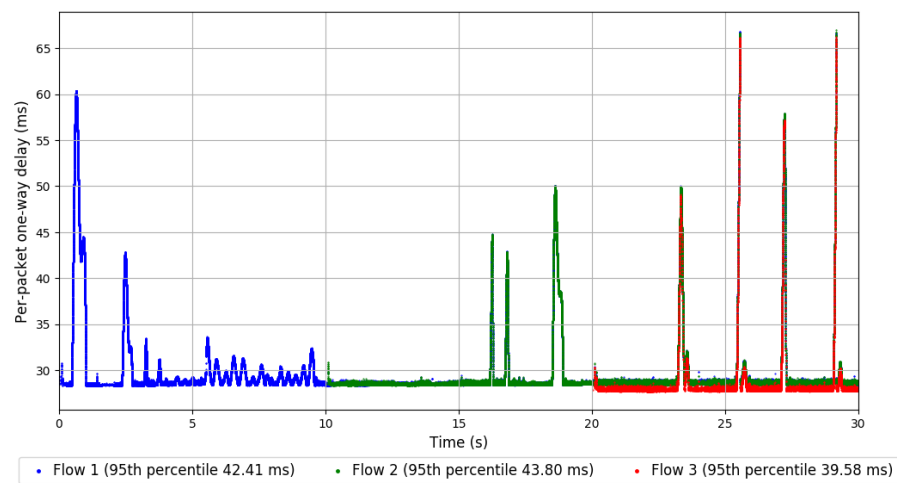
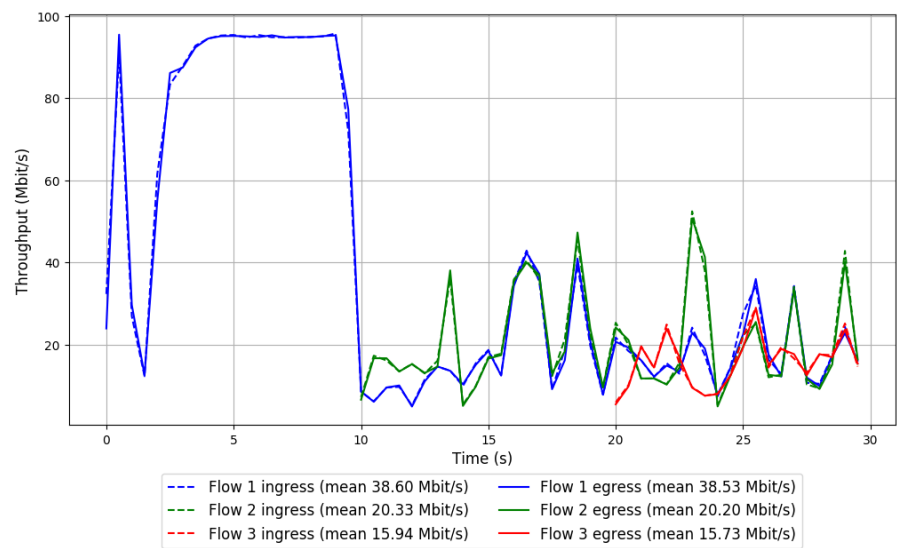


Run 9: Statistics of Copa

Start at: 2018-03-21 08:16:10  
End at: 2018-03-21 08:16:40  
Local clock offset: -0.607 ms  
Remote clock offset: -1.011 ms

# Below is generated by plot.py at 2018-03-21 09:37:07  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 57.21 Mbit/s  
95th percentile per-packet one-way delay: 42.527 ms  
Loss rate: 0.40%  
-- Flow 1:  
Average throughput: 38.53 Mbit/s  
95th percentile per-packet one-way delay: 42.410 ms  
Loss rate: 0.19%  
-- Flow 2:  
Average throughput: 20.20 Mbit/s  
95th percentile per-packet one-way delay: 43.804 ms  
Loss rate: 0.63%  
-- Flow 3:  
Average throughput: 15.73 Mbit/s  
95th percentile per-packet one-way delay: 39.576 ms  
Loss rate: 1.32%

Run 9: Report of Copa — Data Link

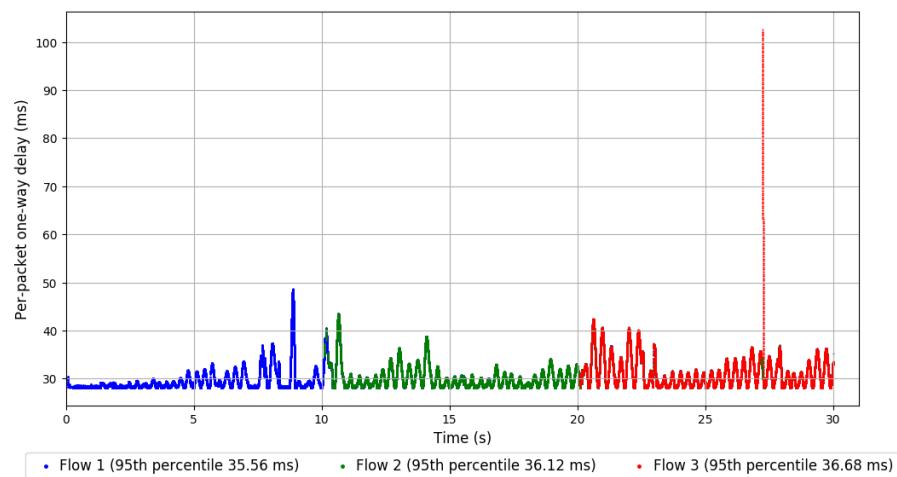
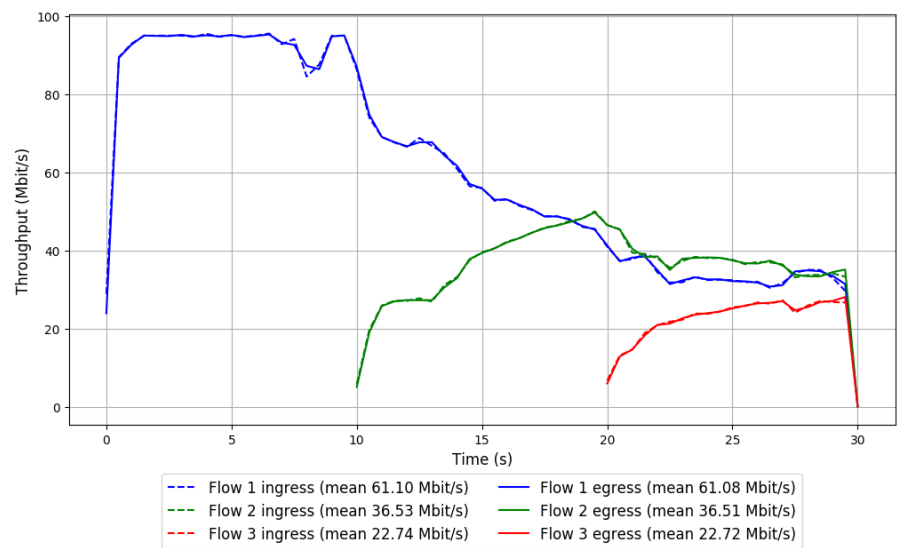


Run 10: Statistics of Copa

Start at: 2018-03-21 08:41:42  
End at: 2018-03-21 08:42:12  
Local clock offset: -0.389 ms  
Remote clock offset: -2.851 ms

# Below is generated by plot.py at 2018-03-21 09:37:07  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.92 Mbit/s  
95th percentile per-packet one-way delay: 35.918 ms  
Loss rate: 0.03%  
-- Flow 1:  
Average throughput: 61.08 Mbit/s  
95th percentile per-packet one-way delay: 35.564 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 36.51 Mbit/s  
95th percentile per-packet one-way delay: 36.117 ms  
Loss rate: 0.04%  
-- Flow 3:  
Average throughput: 22.72 Mbit/s  
95th percentile per-packet one-way delay: 36.681 ms  
Loss rate: 0.08%

Run 10: Report of Copa — Data Link



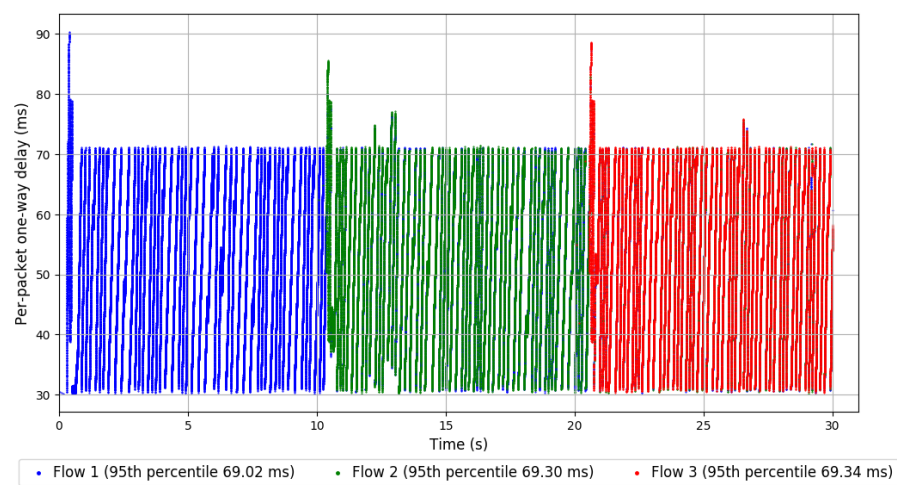
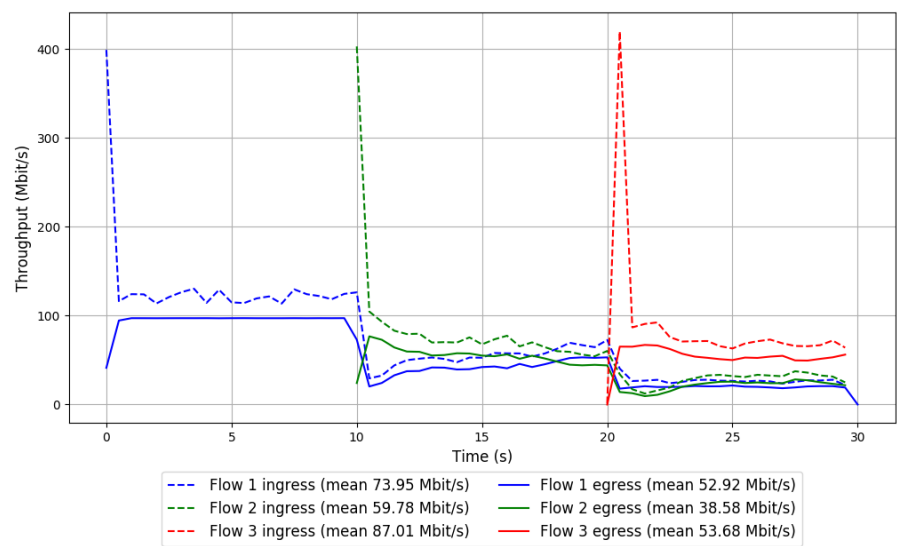
Run 1: Statistics of FillP

Start at: 2018-03-21 04:03:10  
End at: 2018-03-21 04:03:40  
Local clock offset: 0.108 ms  
Remote clock offset: -3.614 ms

# Below is generated by plot.py at 2018-03-21 09:37:07  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.35 Mbit/s  
95th percentile per-packet one-way delay: 69.154 ms  
Loss rate: 32.36%  
-- Flow 1:  
Average throughput: 52.92 Mbit/s  
95th percentile per-packet one-way delay: 69.020 ms  
Loss rate: 28.36%  
-- Flow 2:  
Average throughput: 38.58 Mbit/s  
95th percentile per-packet one-way delay: 69.298 ms  
Loss rate: 35.49%  
-- Flow 3:  
Average throughput: 53.68 Mbit/s  
95th percentile per-packet one-way delay: 69.341 ms  
Loss rate: 38.29%



Run 1: Report of FillP — Data Link

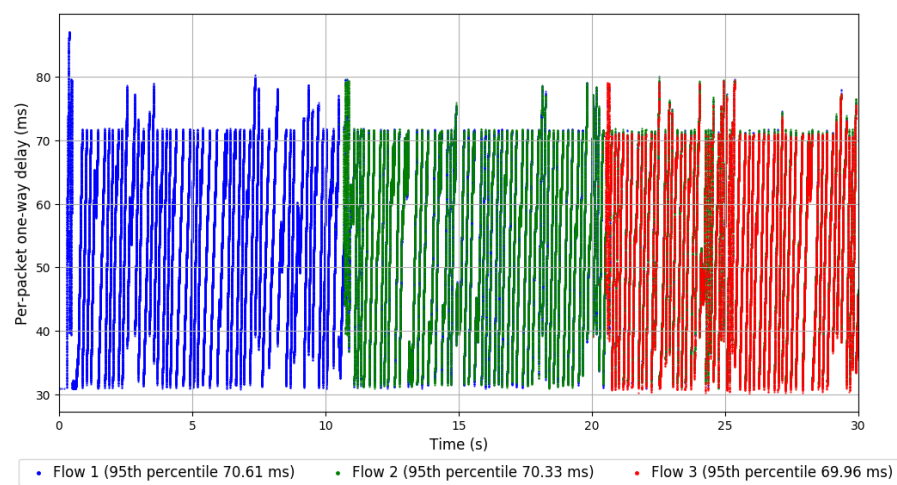
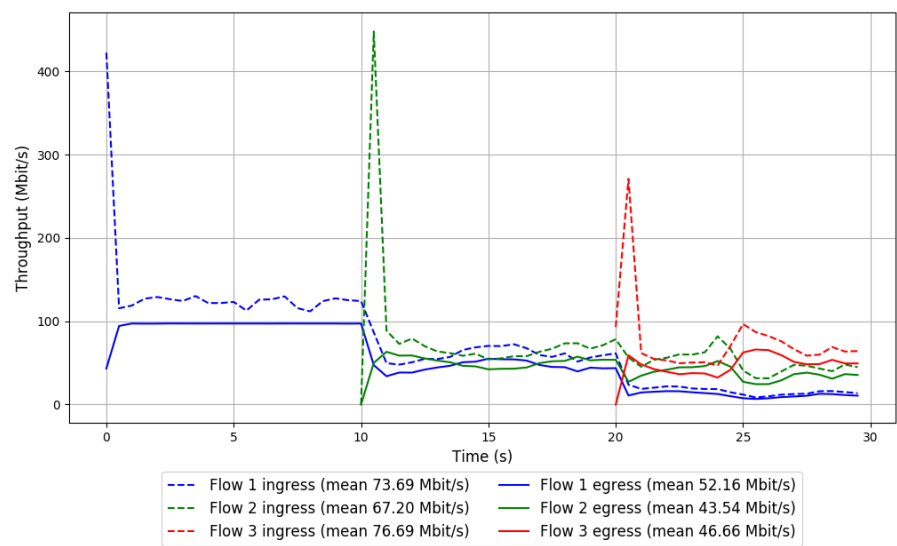


Run 2: Statistics of FillP

Start at: 2018-03-21 04:35:44  
End at: 2018-03-21 04:36:14  
Local clock offset: -0.225 ms  
Remote clock offset: -0.897 ms

# Below is generated by plot.py at 2018-03-21 09:37:07  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.38 Mbit/s  
95th percentile per-packet one-way delay: 70.432 ms  
Loss rate: 32.99%  
-- Flow 1:  
Average throughput: 52.16 Mbit/s  
95th percentile per-packet one-way delay: 70.612 ms  
Loss rate: 29.18%  
-- Flow 2:  
Average throughput: 43.54 Mbit/s  
95th percentile per-packet one-way delay: 70.333 ms  
Loss rate: 35.76%  
-- Flow 3:  
Average throughput: 46.66 Mbit/s  
95th percentile per-packet one-way delay: 69.964 ms  
Loss rate: 39.12%

Run 2: Report of FillP — Data Link

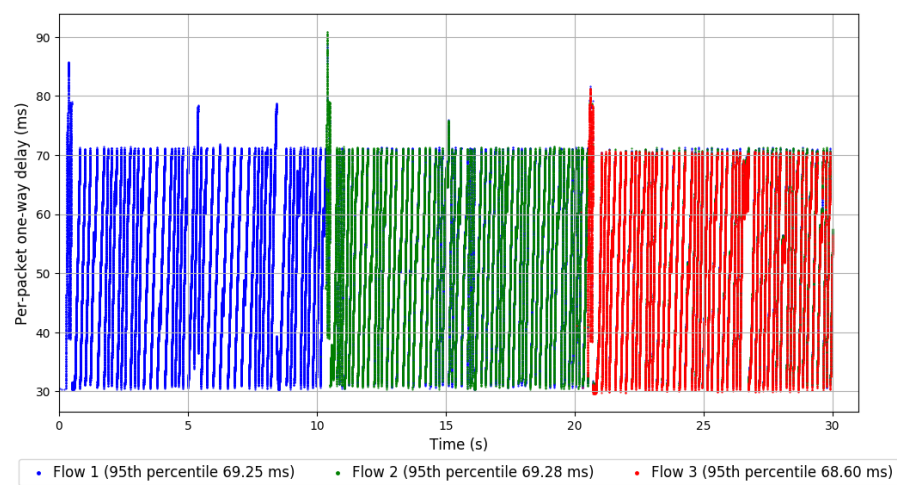
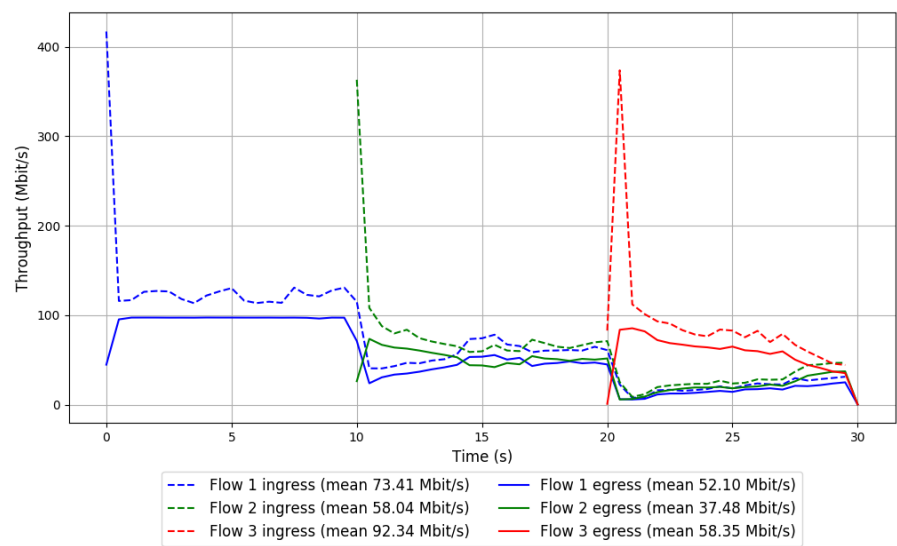


Run 3: Statistics of FillP

Start at: 2018-03-21 05:03:35  
End at: 2018-03-21 05:04:05  
Local clock offset: -0.59 ms  
Remote clock offset: -1.091 ms

# Below is generated by plot.py at 2018-03-21 09:37:07  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.37 Mbit/s  
95th percentile per-packet one-way delay: 69.126 ms  
Loss rate: 32.38%  
-- Flow 1:  
Average throughput: 52.10 Mbit/s  
95th percentile per-packet one-way delay: 69.254 ms  
Loss rate: 28.97%  
-- Flow 2:  
Average throughput: 37.48 Mbit/s  
95th percentile per-packet one-way delay: 69.275 ms  
Loss rate: 35.43%  
-- Flow 3:  
Average throughput: 58.35 Mbit/s  
95th percentile per-packet one-way delay: 68.600 ms  
Loss rate: 36.72%

Run 3: Report of FillP — Data Link

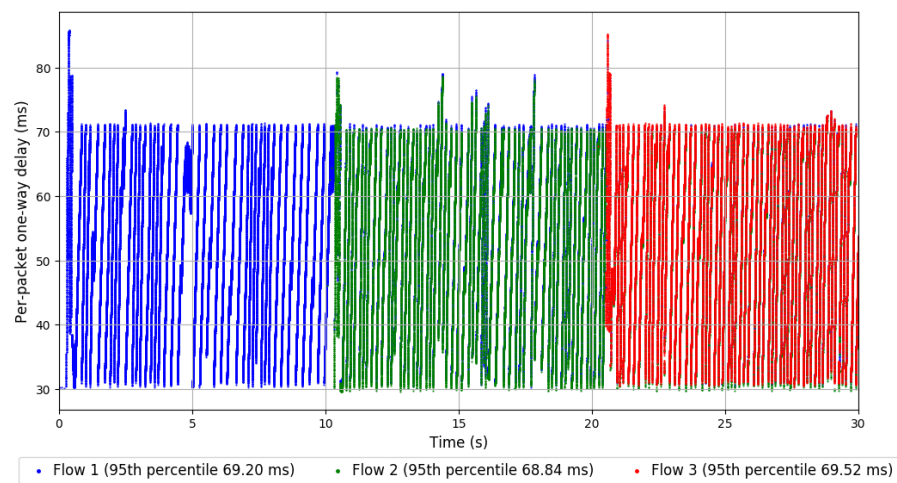
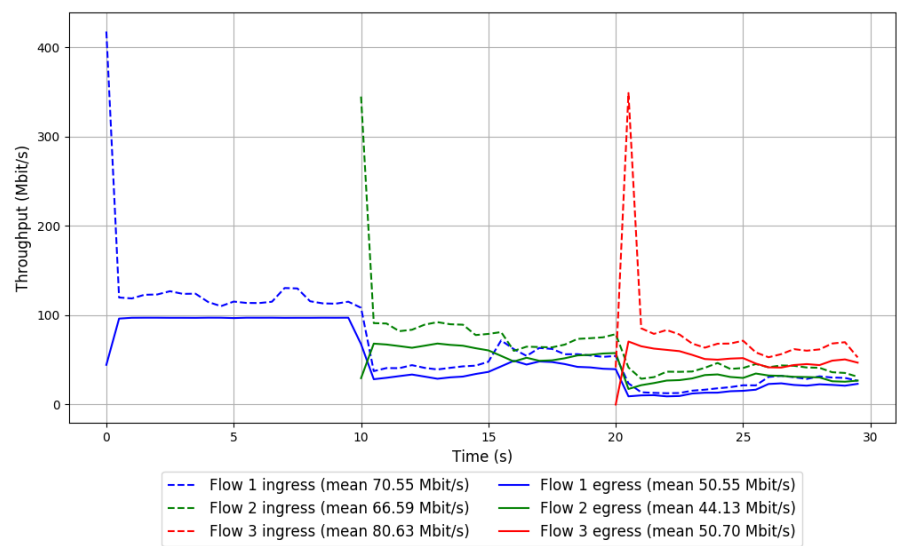


Run 4: Statistics of FillP

Start at: 2018-03-21 05:33:47  
End at: 2018-03-21 05:34:17  
Local clock offset: -0.089 ms  
Remote clock offset: -1.243 ms

# Below is generated by plot.py at 2018-03-21 09:37:07  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.42 Mbit/s  
95th percentile per-packet one-way delay: 69.158 ms  
Loss rate: 31.86%  
-- Flow 1:  
Average throughput: 50.55 Mbit/s  
95th percentile per-packet one-way delay: 69.198 ms  
Loss rate: 28.30%  
-- Flow 2:  
Average throughput: 44.13 Mbit/s  
95th percentile per-packet one-way delay: 68.841 ms  
Loss rate: 33.70%  
-- Flow 3:  
Average throughput: 50.70 Mbit/s  
95th percentile per-packet one-way delay: 69.522 ms  
Loss rate: 38.17%

Run 4: Report of FillP — Data Link



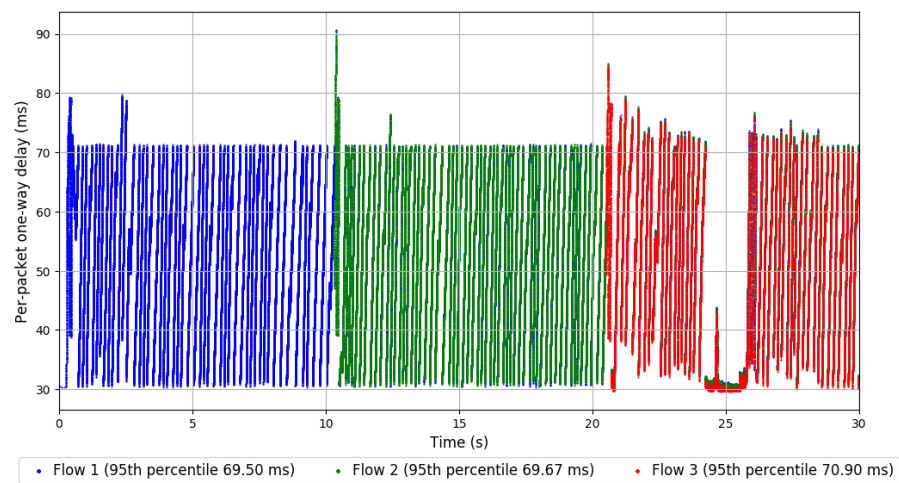
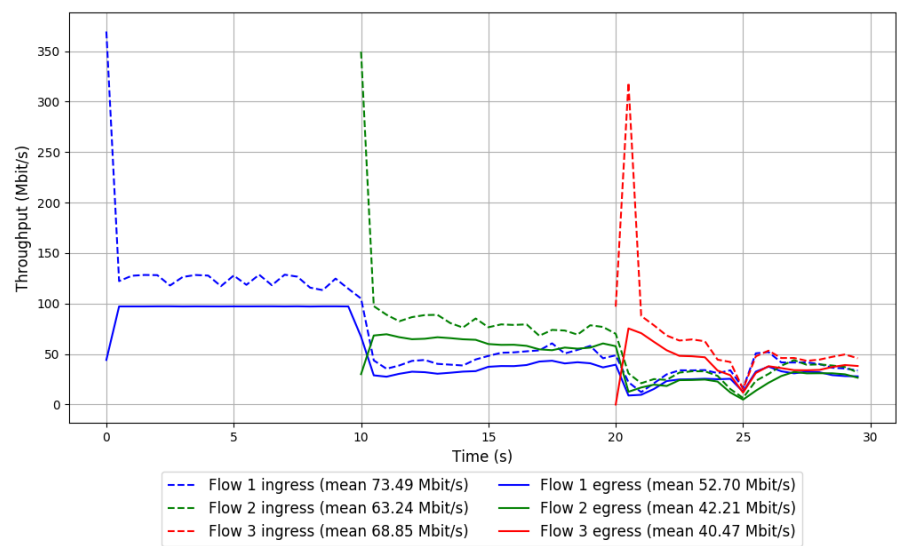
Run 5: Statistics of FillP

Start at: 2018-03-21 06:04:10  
End at: 2018-03-21 06:04:40  
Local clock offset: -0.163 ms  
Remote clock offset: -1.827 ms

# Below is generated by plot.py at 2018-03-21 09:37:07  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.17 Mbit/s  
95th percentile per-packet one-way delay: 69.726 ms  
Loss rate: 31.96%  
-- Flow 1:  
Average throughput: 52.70 Mbit/s  
95th percentile per-packet one-way delay: 69.497 ms  
Loss rate: 28.30%  
-- Flow 2:  
Average throughput: 42.21 Mbit/s  
95th percentile per-packet one-way delay: 69.669 ms  
Loss rate: 33.25%  
-- Flow 3:  
Average throughput: 40.47 Mbit/s  
95th percentile per-packet one-way delay: 70.903 ms  
Loss rate: 41.36%



Run 5: Report of FillP — Data Link

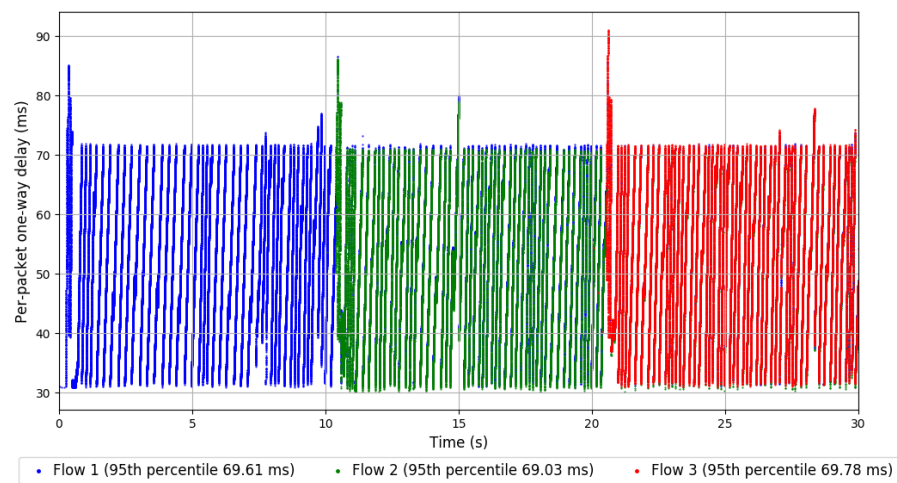
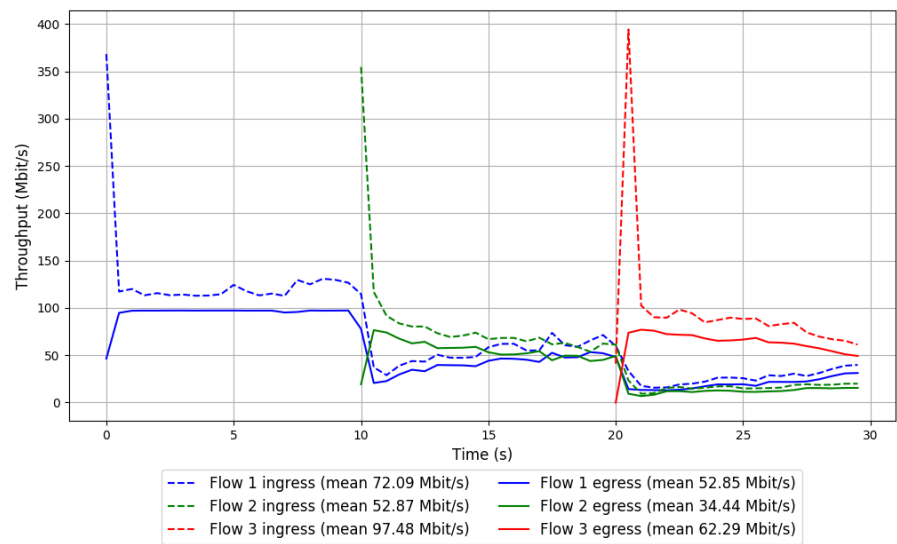


Run 6: Statistics of FillP

Start at: 2018-03-21 06:32:17  
End at: 2018-03-21 06:32:47  
Local clock offset: -0.241 ms  
Remote clock offset: -1.749 ms

# Below is generated by plot.py at 2018-03-21 09:37:07  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.37 Mbit/s  
95th percentile per-packet one-way delay: 69.525 ms  
Loss rate: 30.91%  
-- Flow 1:  
Average throughput: 52.85 Mbit/s  
95th percentile per-packet one-way delay: 69.611 ms  
Loss rate: 26.64%  
-- Flow 2:  
Average throughput: 34.44 Mbit/s  
95th percentile per-packet one-way delay: 69.030 ms  
Loss rate: 34.88%  
-- Flow 3:  
Average throughput: 62.29 Mbit/s  
95th percentile per-packet one-way delay: 69.784 ms  
Loss rate: 36.10%

Run 6: Report of FillP — Data Link

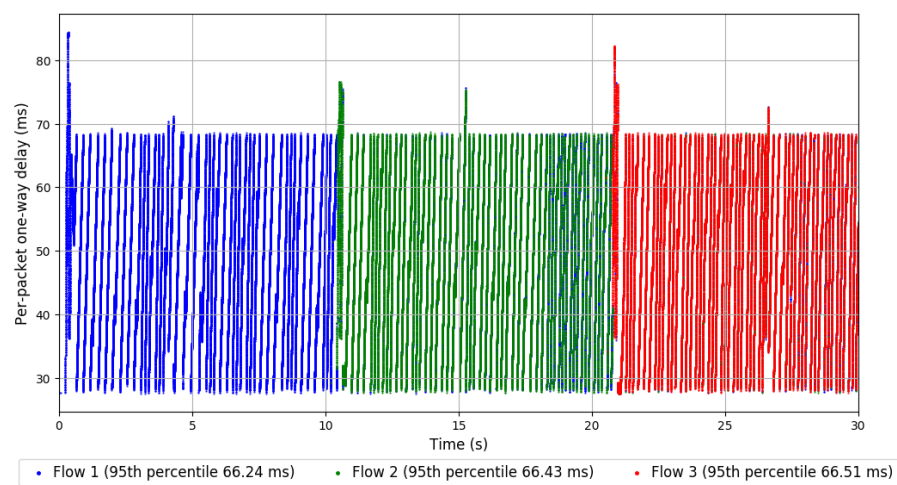
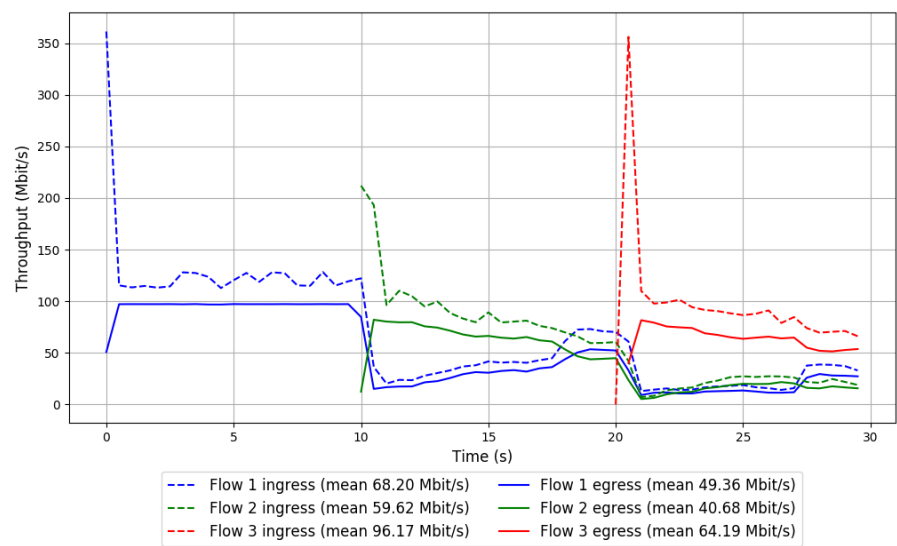


Run 7: Statistics of FillP

Start at: 2018-03-21 07:00:14  
End at: 2018-03-21 07:00:44  
Local clock offset: -0.127 ms  
Remote clock offset: -2.861 ms

# Below is generated by plot.py at 2018-03-21 09:37:07  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.52 Mbit/s  
95th percentile per-packet one-way delay: 66.352 ms  
Loss rate: 30.88%  
-- Flow 1:  
Average throughput: 49.36 Mbit/s  
95th percentile per-packet one-way delay: 66.244 ms  
Loss rate: 27.56%  
-- Flow 2:  
Average throughput: 40.68 Mbit/s  
95th percentile per-packet one-way delay: 66.426 ms  
Loss rate: 32.20%  
-- Flow 3:  
Average throughput: 64.19 Mbit/s  
95th percentile per-packet one-way delay: 66.513 ms  
Loss rate: 36.36%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-03-21 07:26:42

End at: 2018-03-21 07:27:12

Local clock offset: -0.347 ms

Remote clock offset: -2.06 ms

# Below is generated by plot.py at 2018-03-21 09:37:07

# Datalink statistics

-- Total of 3 flows:

Average throughput: 96.46 Mbit/s

95th percentile per-packet one-way delay: 68.702 ms

Loss rate: 31.15%

-- Flow 1:

Average throughput: 44.96 Mbit/s

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

Loss rate: 27.72%

-- Flow 2:

Average throughput: 51.47 Mbit/s

95th percentile per-packet one-way delay: 69.002 ms

Loss rate: 31.58%

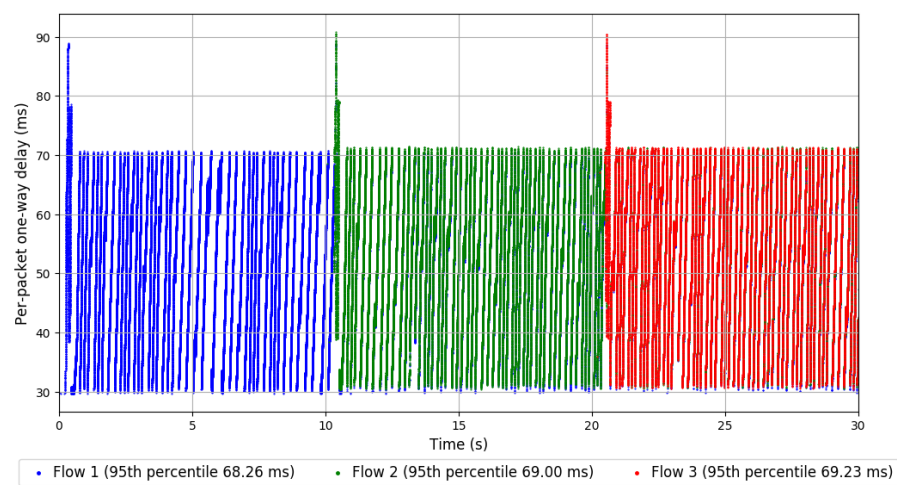
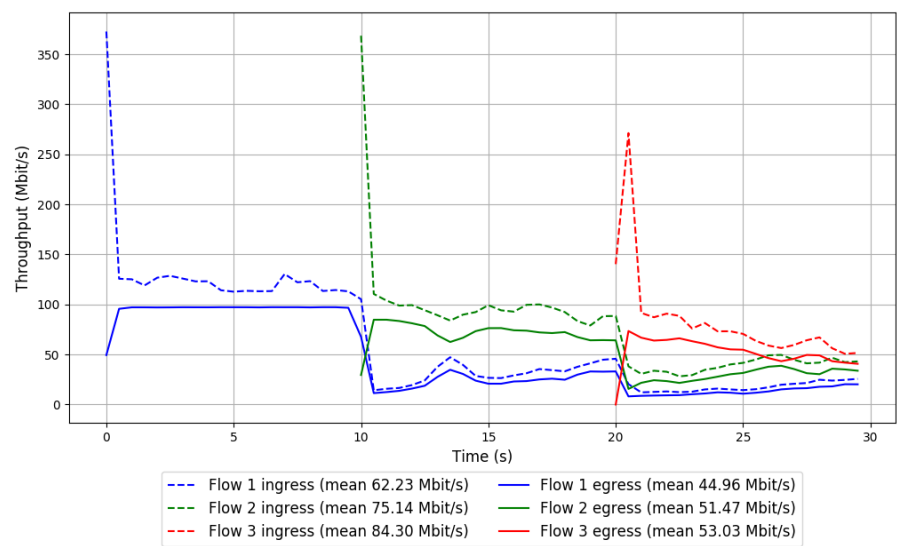
-- Flow 3:

Average throughput: 53.03 Mbit/s

95th percentile per-packet one-way delay: 69.233 ms

Loss rate: 38.02%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-03-21 07:54:01

End at: 2018-03-21 07:54:31

Local clock offset: -0.633 ms

Remote clock offset: 0.854 ms

# Below is generated by plot.py at 2018-03-21 09:37:07

# Datalink statistics

-- Total of 3 flows:

Average throughput: 96.49 Mbit/s

95th percentile per-packet one-way delay: 69.605 ms

Loss rate: 31.67%

-- Flow 1:

Average throughput: 51.11 Mbit/s

95th percentile per-packet one-way delay: 69.638 ms

Loss rate: 27.42%

-- Flow 2:

Average throughput: 37.89 Mbit/s

95th percentile per-packet one-way delay: 69.943 ms

Loss rate: 35.14%

-- Flow 3:

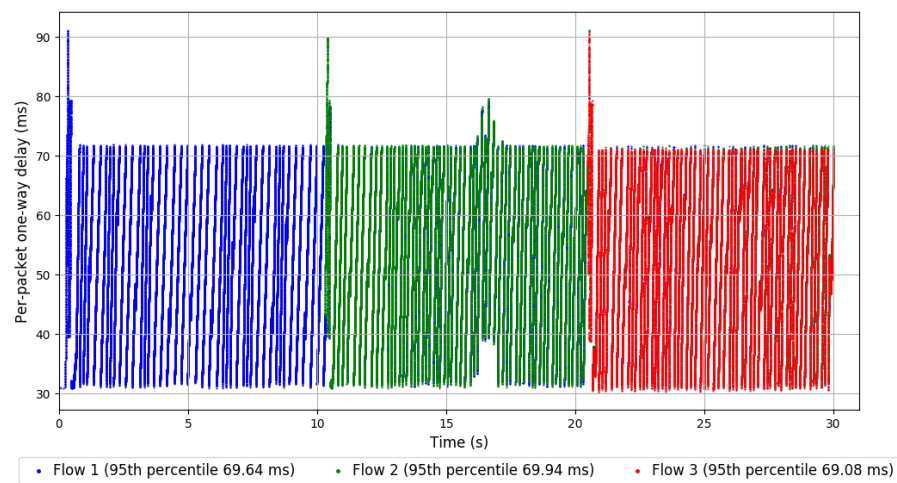
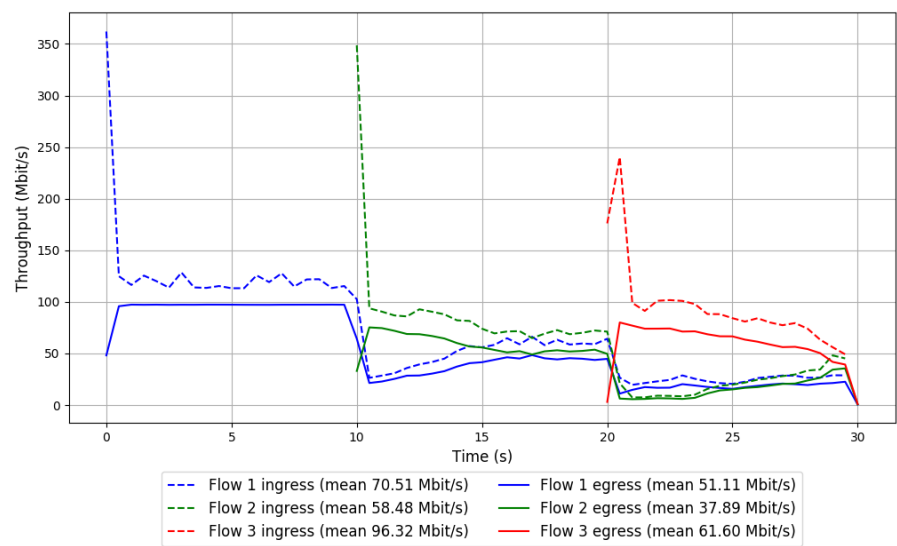
Average throughput: 61.60 Mbit/s

95th percentile per-packet one-way delay: 69.075 ms

Loss rate: 36.81%



Run 9: Report of FillP — Data Link

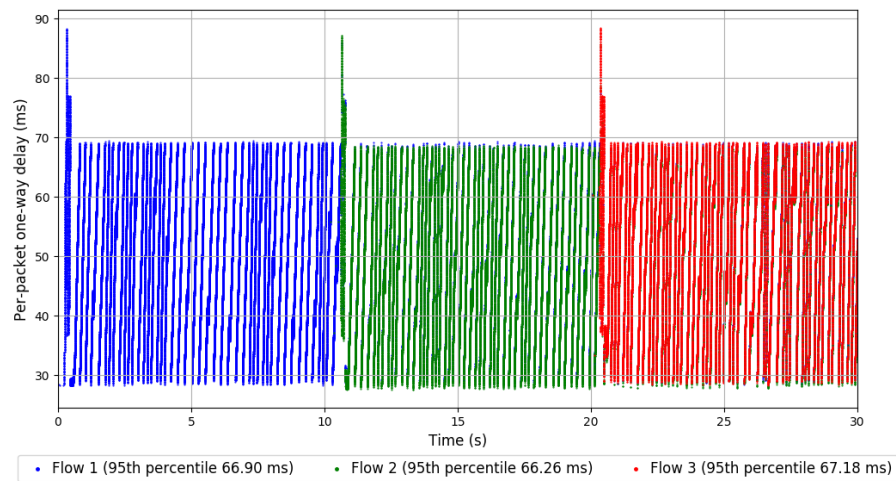
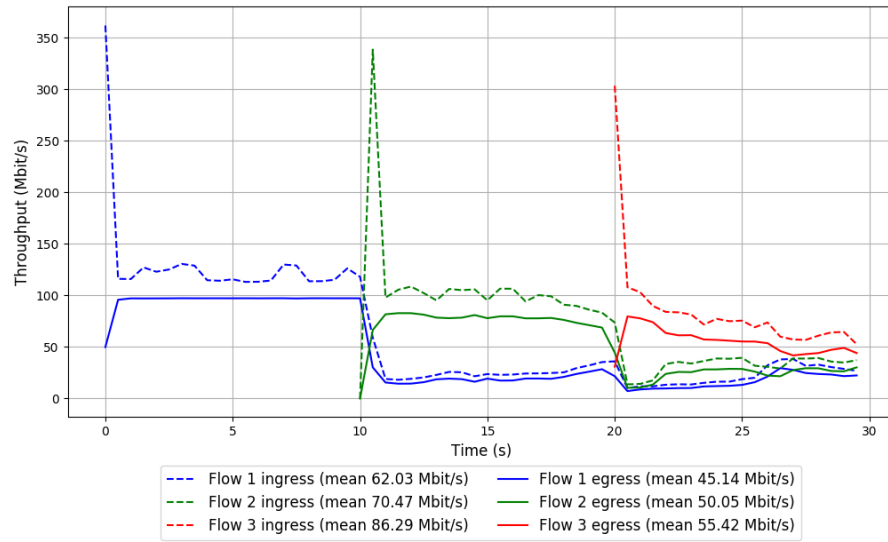


Run 10: Statistics of FillP

Start at: 2018-03-21 08:20:31  
End at: 2018-03-21 08:21:01  
Local clock offset: -0.555 ms  
Remote clock offset: -1.702 ms

# Below is generated by plot.py at 2018-03-21 09:37:07  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.51 Mbit/s  
95th percentile per-packet one-way delay: 66.739 ms  
Loss rate: 29.77%  
-- Flow 1:  
Average throughput: 45.14 Mbit/s  
95th percentile per-packet one-way delay: 66.901 ms  
Loss rate: 27.17%  
-- Flow 2:  
Average throughput: 50.05 Mbit/s  
95th percentile per-packet one-way delay: 66.260 ms  
Loss rate: 29.53%  
-- Flow 3:  
Average throughput: 55.42 Mbit/s  
95th percentile per-packet one-way delay: 67.183 ms  
Loss rate: 35.83%

# Run 10: Report of FillP — Data Link

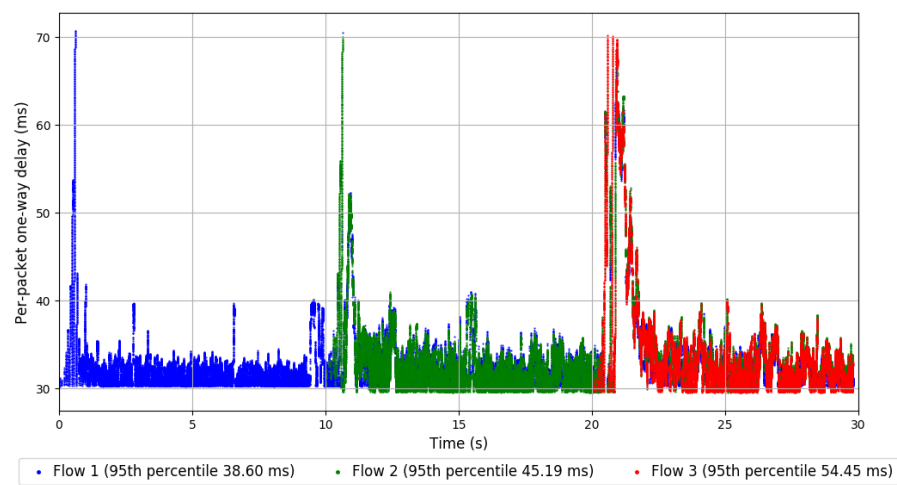
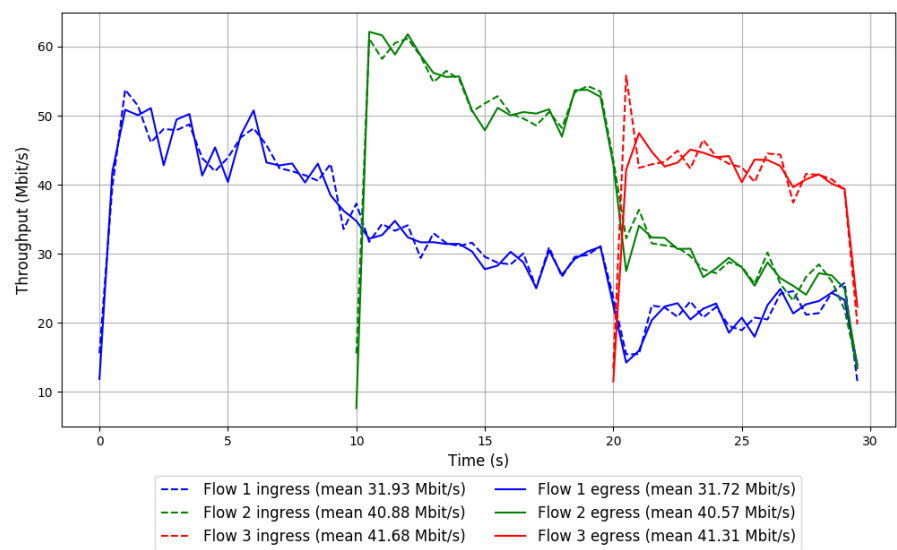


Run 1: Statistics of Indigo-1-32

Start at: 2018-03-21 04:25:18  
End at: 2018-03-21 04:25:48  
Local clock offset: 0.276 ms  
Remote clock offset: -2.069 ms

# Below is generated by plot.py at 2018-03-21 09:37:07  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 72.12 Mbit/s  
95th percentile per-packet one-way delay: 43.372 ms  
Loss rate: 0.72%  
-- Flow 1:  
Average throughput: 31.72 Mbit/s  
95th percentile per-packet one-way delay: 38.605 ms  
Loss rate: 0.63%  
-- Flow 2:  
Average throughput: 40.57 Mbit/s  
95th percentile per-packet one-way delay: 45.193 ms  
Loss rate: 0.75%  
-- Flow 3:  
Average throughput: 41.31 Mbit/s  
95th percentile per-packet one-way delay: 54.448 ms  
Loss rate: 0.86%

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

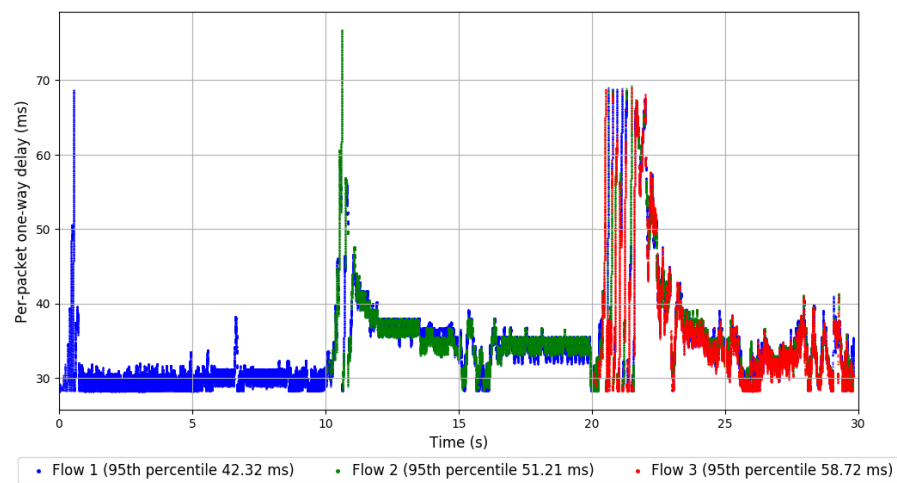
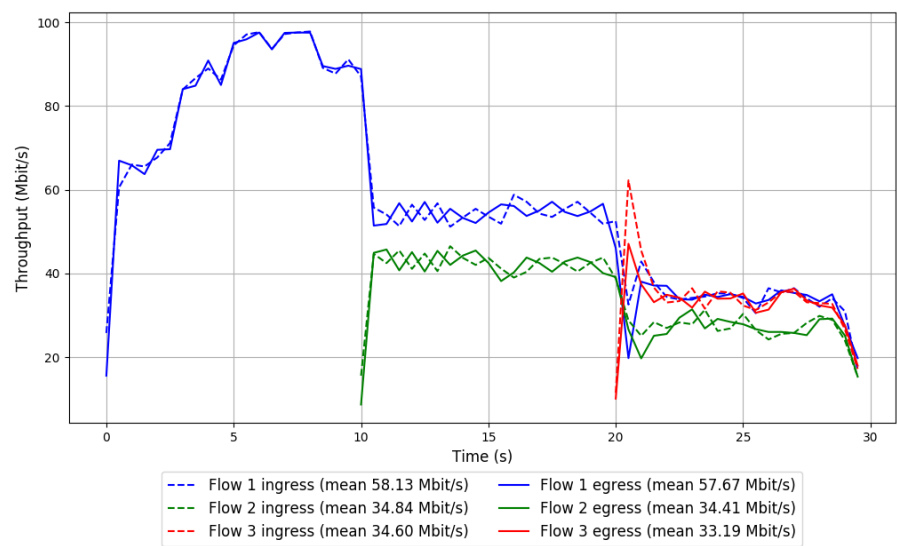


Run 2: Statistics of Indigo-1-32

Start at: 2018-03-21 04:54:32  
End at: 2018-03-21 04:55:02  
Local clock offset: -0.529 ms  
Remote clock offset: -3.141 ms

# Below is generated by plot.py at 2018-03-21 09:37:07  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 91.30 Mbit/s  
95th percentile per-packet one-way delay: 47.862 ms  
Loss rate: 1.29%  
-- Flow 1:  
Average throughput: 57.67 Mbit/s  
95th percentile per-packet one-way delay: 42.320 ms  
Loss rate: 0.78%  
-- Flow 2:  
Average throughput: 34.41 Mbit/s  
95th percentile per-packet one-way delay: 51.212 ms  
Loss rate: 1.24%  
-- Flow 3:  
Average throughput: 33.19 Mbit/s  
95th percentile per-packet one-way delay: 58.715 ms  
Loss rate: 4.05%

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



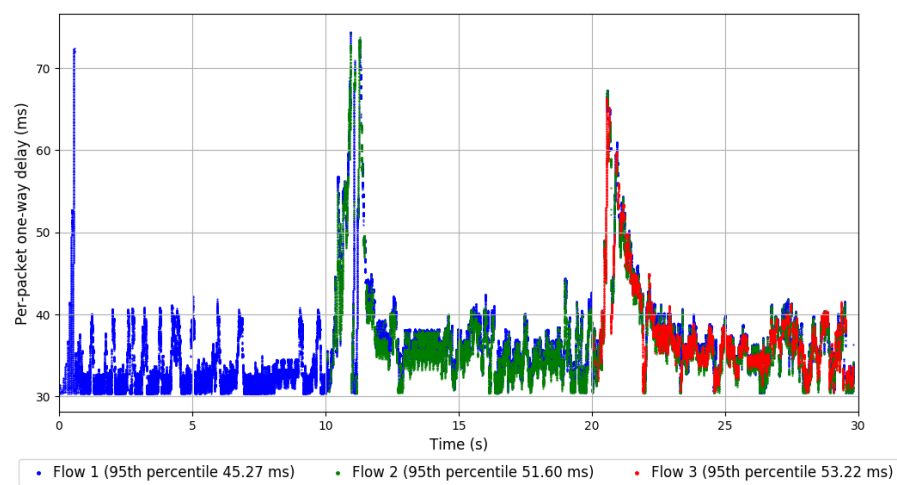
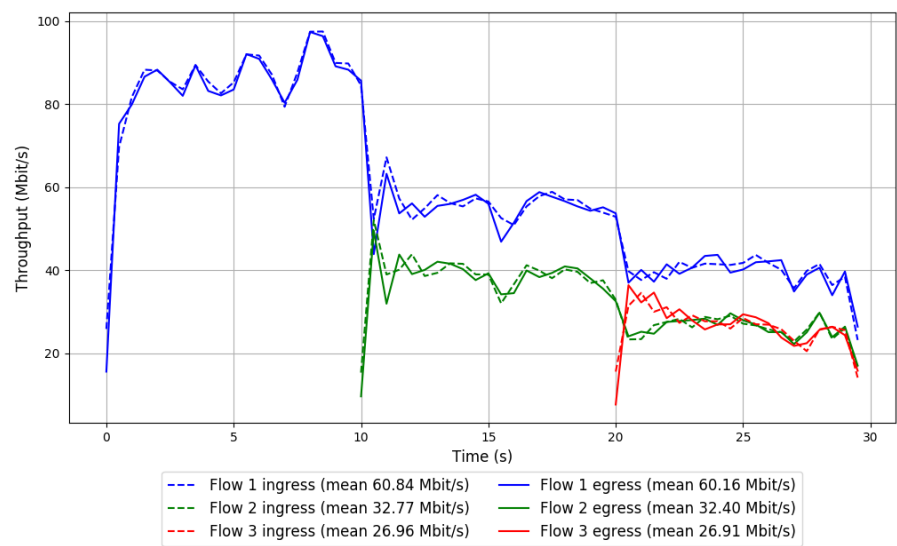
Run 3: Statistics of Indigo-1-32

Start at: 2018-03-21 05:25:12  
End at: 2018-03-21 05:25:42  
Local clock offset: -0.135 ms  
Remote clock offset: -0.421 ms

# Below is generated by plot.py at 2018-03-21 09:37:07  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 90.44 Mbit/s  
95th percentile per-packet one-way delay: 48.420 ms  
Loss rate: 1.02%  
-- Flow 1:  
Average throughput: 60.16 Mbit/s  
95th percentile per-packet one-way delay: 45.265 ms  
Loss rate: 1.09%  
-- Flow 2:  
Average throughput: 32.40 Mbit/s  
95th percentile per-packet one-way delay: 51.596 ms  
Loss rate: 1.14%  
-- Flow 3:  
Average throughput: 26.91 Mbit/s  
95th percentile per-packet one-way delay: 53.215 ms  
Loss rate: 0.20%



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

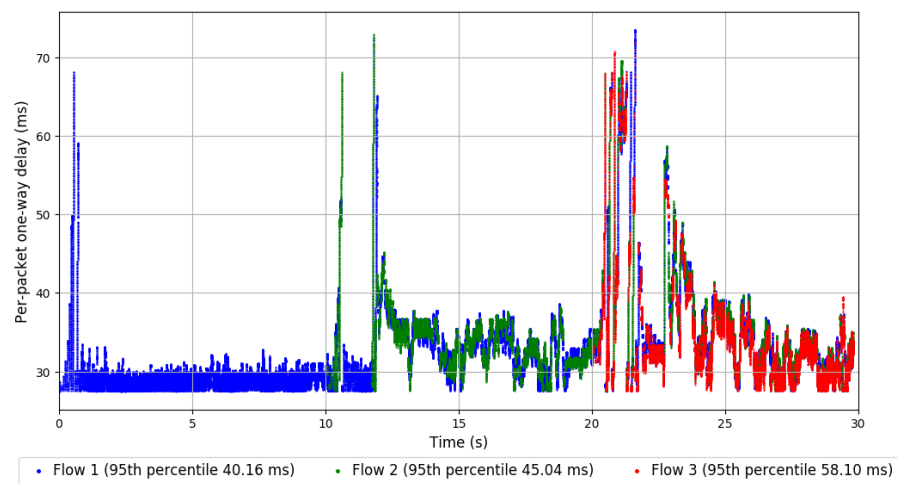
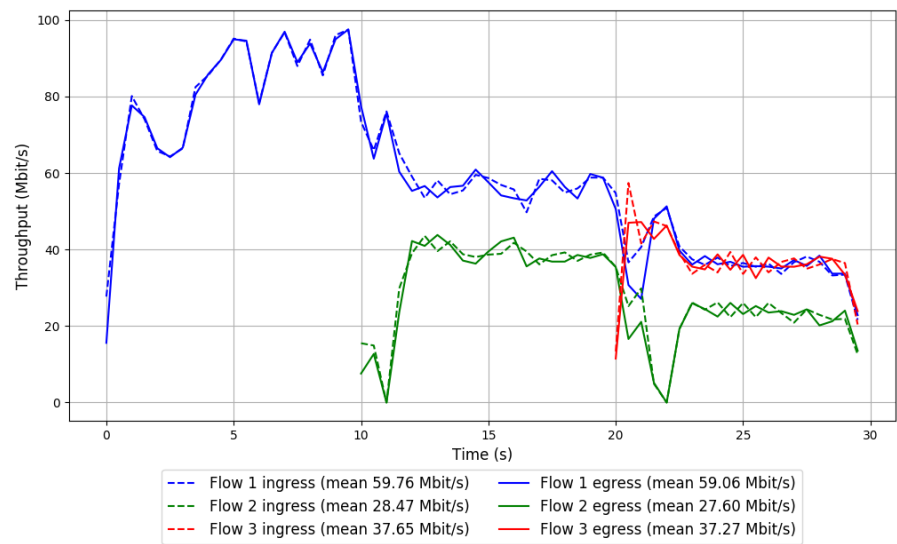


Run 4: Statistics of Indigo-1-32

Start at: 2018-03-21 05:54:01  
End at: 2018-03-21 05:54:31  
Local clock offset: -0.158 ms  
Remote clock offset: -3.197 ms

# Below is generated by plot.py at 2018-03-21 09:37:07  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 89.54 Mbit/s  
95th percentile per-packet one-way delay: 43.930 ms  
Loss rate: 1.52%  
-- Flow 1:  
Average throughput: 59.06 Mbit/s  
95th percentile per-packet one-way delay: 40.156 ms  
Loss rate: 1.16%  
-- Flow 2:  
Average throughput: 27.60 Mbit/s  
95th percentile per-packet one-way delay: 45.044 ms  
Loss rate: 3.02%  
-- Flow 3:  
Average throughput: 37.27 Mbit/s  
95th percentile per-packet one-way delay: 58.103 ms  
Loss rate: 0.97%

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

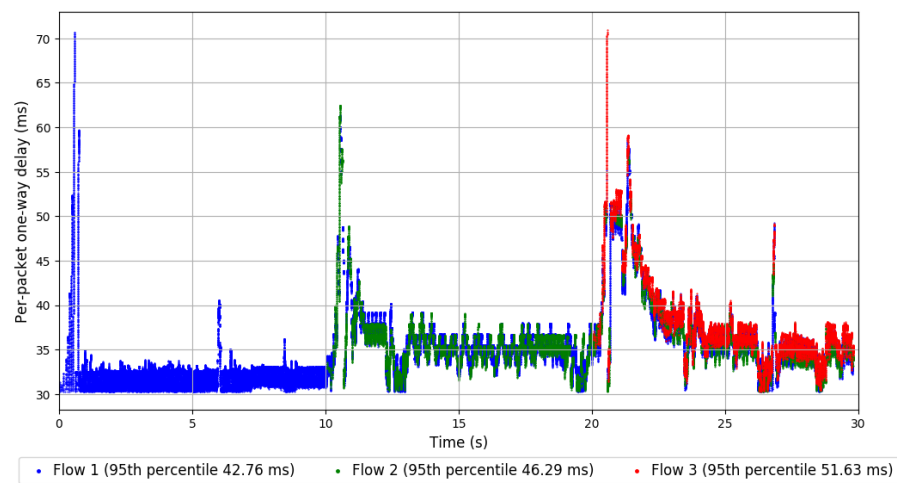
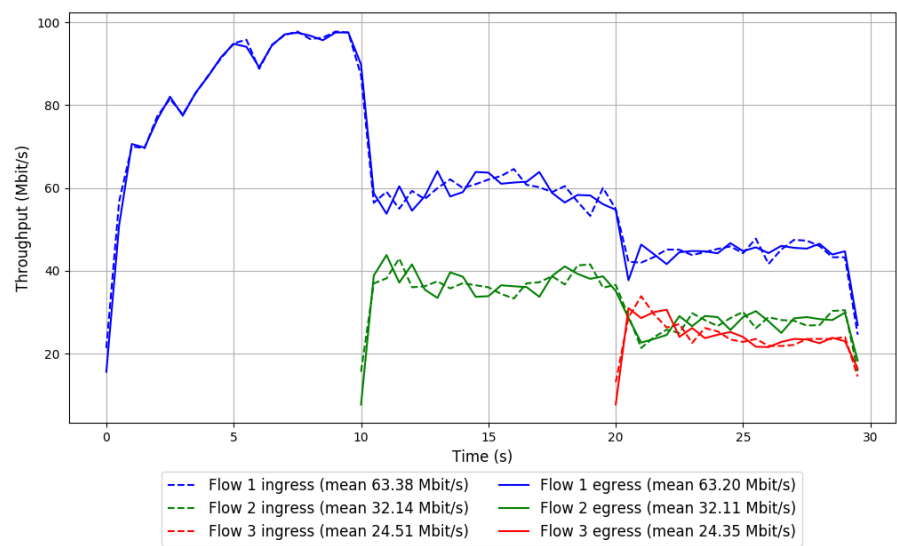


Run 5: Statistics of Indigo-1-32

Start at: 2018-03-21 06:22:56  
End at: 2018-03-21 06:23:26  
Local clock offset: -0.249 ms  
Remote clock offset: -2.361 ms

# Below is generated by plot.py at 2018-03-21 09:37:07  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.38 Mbit/s  
95th percentile per-packet one-way delay: 45.459 ms  
Loss rate: 0.27%  
-- Flow 1:  
Average throughput: 63.20 Mbit/s  
95th percentile per-packet one-way delay: 42.762 ms  
Loss rate: 0.27%  
-- Flow 2:  
Average throughput: 32.11 Mbit/s  
95th percentile per-packet one-way delay: 46.292 ms  
Loss rate: 0.10%  
-- Flow 3:  
Average throughput: 24.35 Mbit/s  
95th percentile per-packet one-way delay: 51.634 ms  
Loss rate: 0.65%

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

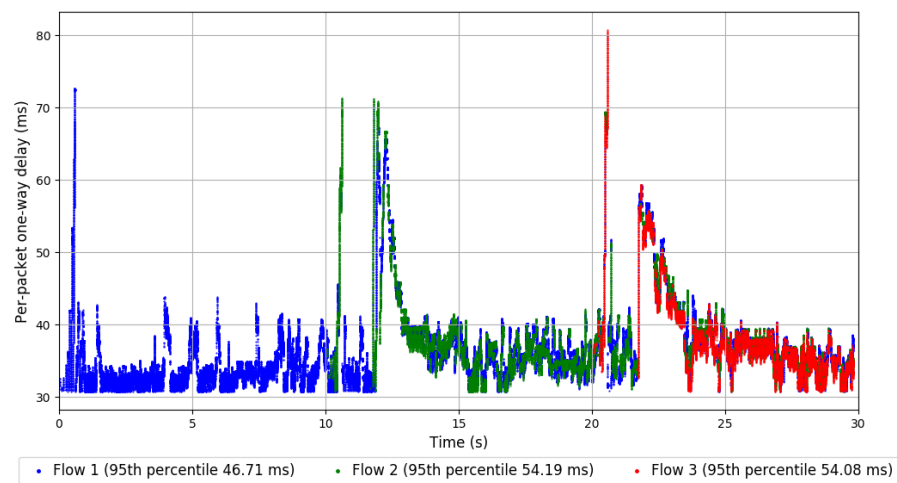
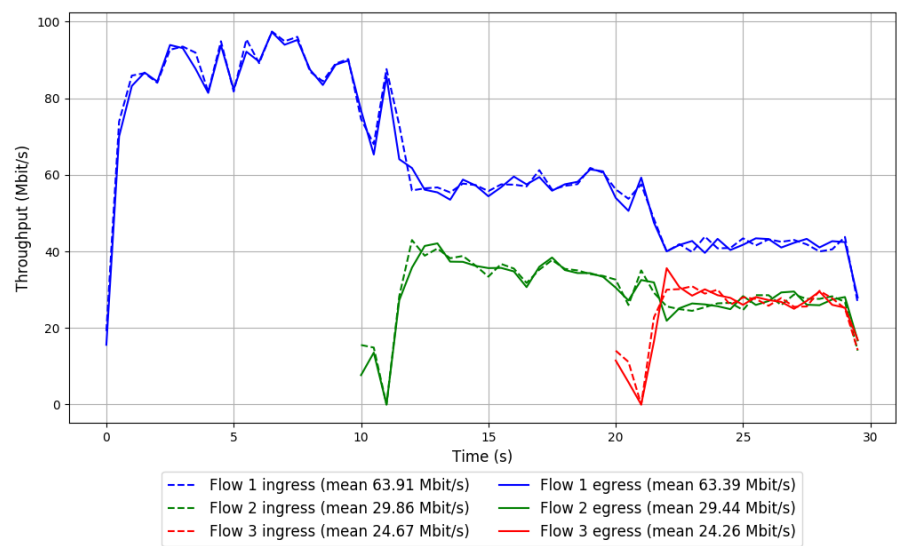


Run 6: Statistics of Indigo-1-32

Start at: 2018-03-21 06:50:08  
End at: 2018-03-21 06:50:38  
Local clock offset: -0.159 ms  
Remote clock offset: -0.578 ms

# Below is generated by plot.py at 2018-03-21 09:37:07  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 90.82 Mbit/s  
95th percentile per-packet one-way delay: 51.317 ms  
Loss rate: 1.00%  
-- Flow 1:  
Average throughput: 63.39 Mbit/s  
95th percentile per-packet one-way delay: 46.708 ms  
Loss rate: 0.78%  
-- Flow 2:  
Average throughput: 29.44 Mbit/s  
95th percentile per-packet one-way delay: 54.185 ms  
Loss rate: 1.41%  
-- Flow 3:  
Average throughput: 24.26 Mbit/s  
95th percentile per-packet one-way delay: 54.078 ms  
Loss rate: 1.67%

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



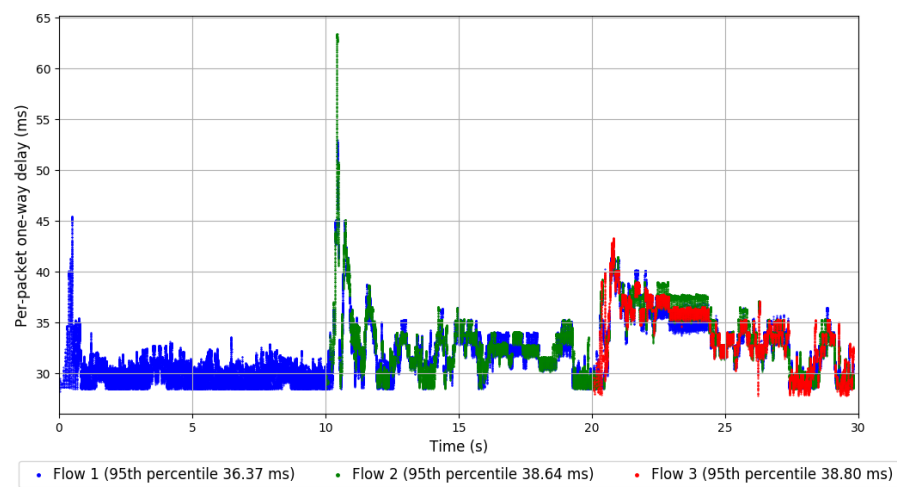
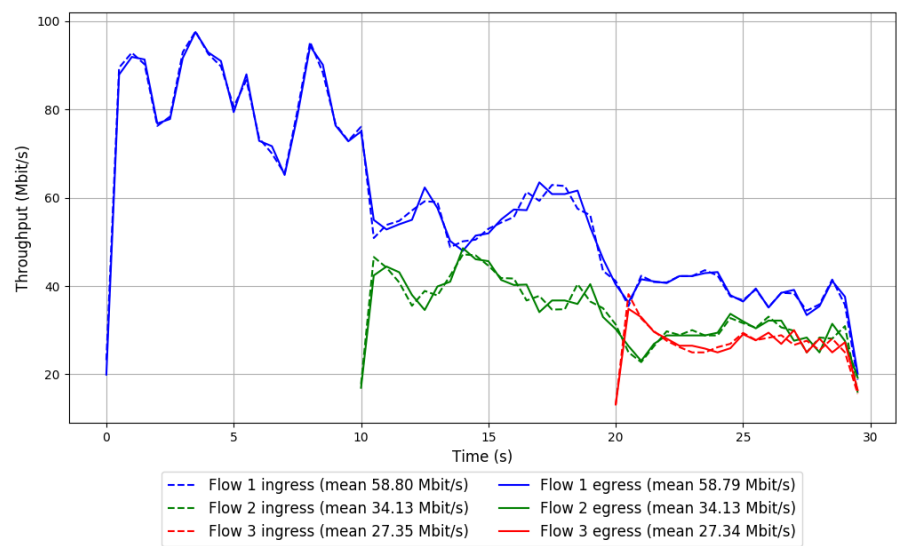
Run 7: Statistics of Indigo-1-32

Start at: 2018-03-21 07:17:58  
End at: 2018-03-21 07:18:28  
Local clock offset: -0.148 ms  
Remote clock offset: -3.659 ms

# Below is generated by plot.py at 2018-03-21 09:37:07  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 90.35 Mbit/s  
95th percentile per-packet one-way delay: 37.610 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 58.79 Mbit/s  
95th percentile per-packet one-way delay: 36.372 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 34.13 Mbit/s  
95th percentile per-packet one-way delay: 38.637 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 27.34 Mbit/s  
95th percentile per-packet one-way delay: 38.801 ms  
Loss rate: 0.00%



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

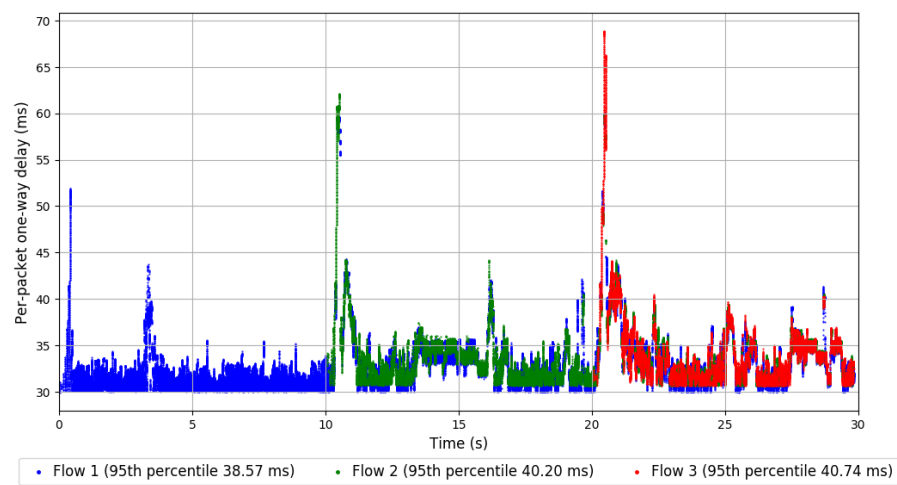
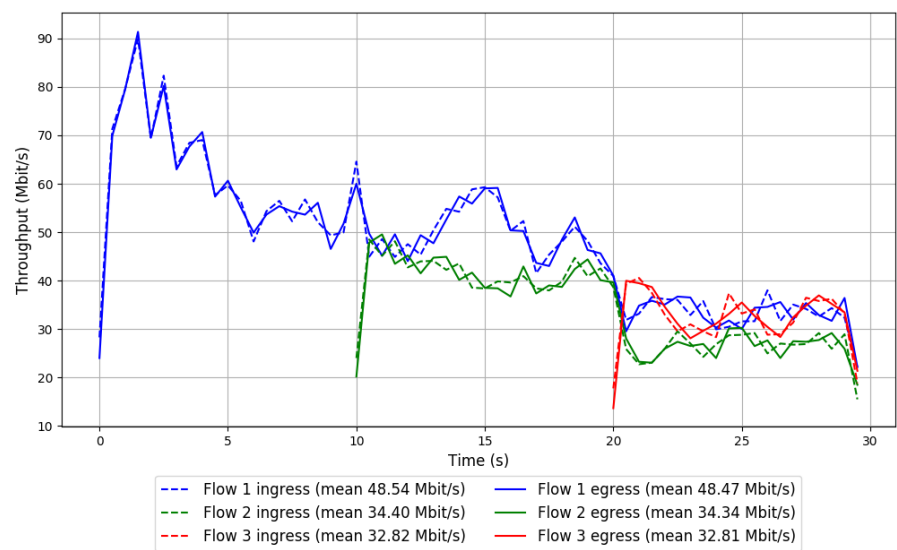


Run 8: Statistics of Indigo-1-32

Start at: 2018-03-21 07:44:57  
End at: 2018-03-21 07:45:27  
Local clock offset: -0.589 ms  
Remote clock offset: -0.686 ms

# Below is generated by plot.py at 2018-03-21 09:37:07  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 81.97 Mbit/s  
95th percentile per-packet one-way delay: 39.379 ms  
Loss rate: 0.14%  
-- Flow 1:  
Average throughput: 48.47 Mbit/s  
95th percentile per-packet one-way delay: 38.571 ms  
Loss rate: 0.14%  
-- Flow 2:  
Average throughput: 34.34 Mbit/s  
95th percentile per-packet one-way delay: 40.199 ms  
Loss rate: 0.18%  
-- Flow 3:  
Average throughput: 32.81 Mbit/s  
95th percentile per-packet one-way delay: 40.744 ms  
Loss rate: 0.03%

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

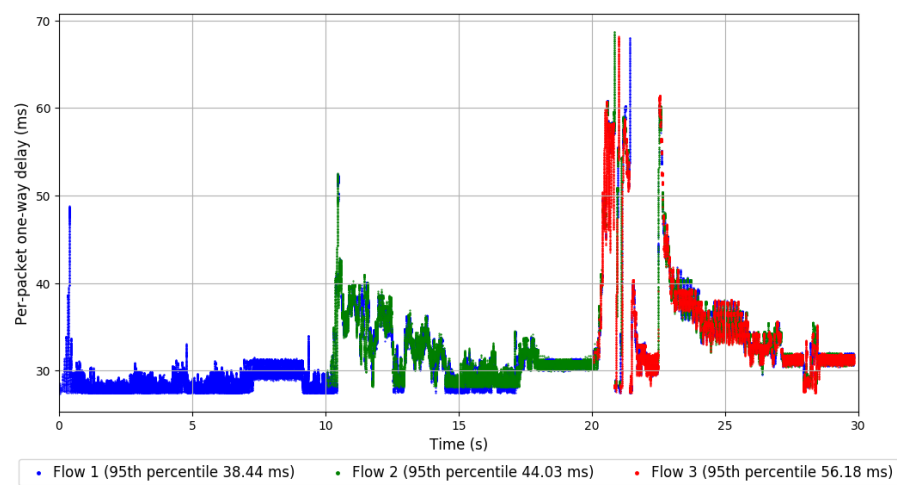
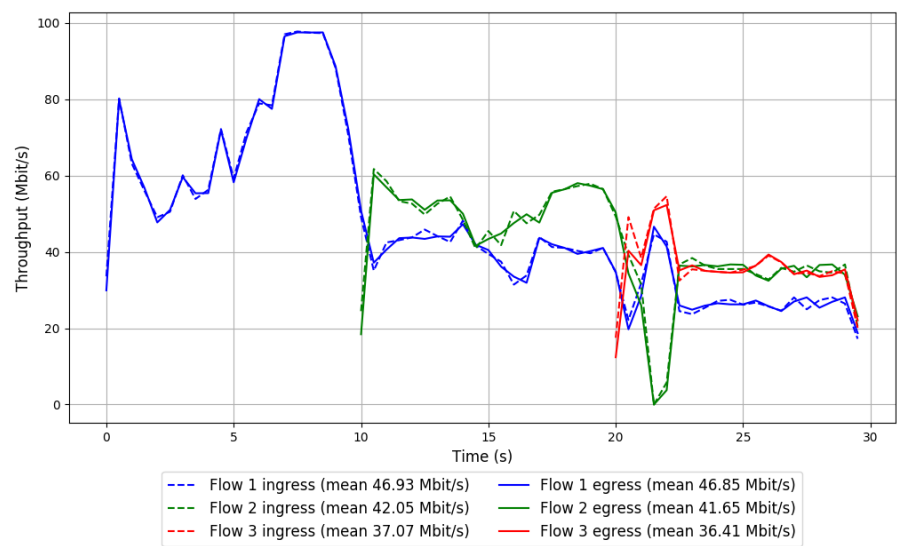


Run 9: Statistics of Indigo-1-32

Start at: 2018-03-21 08:11:51  
End at: 2018-03-21 08:12:21  
Local clock offset: -0.515 ms  
Remote clock offset: -0.609 ms

# Below is generated by plot.py at 2018-03-21 09:37:07  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 86.37 Mbit/s  
95th percentile per-packet one-way delay: 42.594 ms  
Loss rate: 0.62%  
-- Flow 1:  
Average throughput: 46.85 Mbit/s  
95th percentile per-packet one-way delay: 38.436 ms  
Loss rate: 0.14%  
-- Flow 2:  
Average throughput: 41.65 Mbit/s  
95th percentile per-packet one-way delay: 44.031 ms  
Loss rate: 0.93%  
-- Flow 3:  
Average throughput: 36.41 Mbit/s  
95th percentile per-packet one-way delay: 56.179 ms  
Loss rate: 1.79%

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

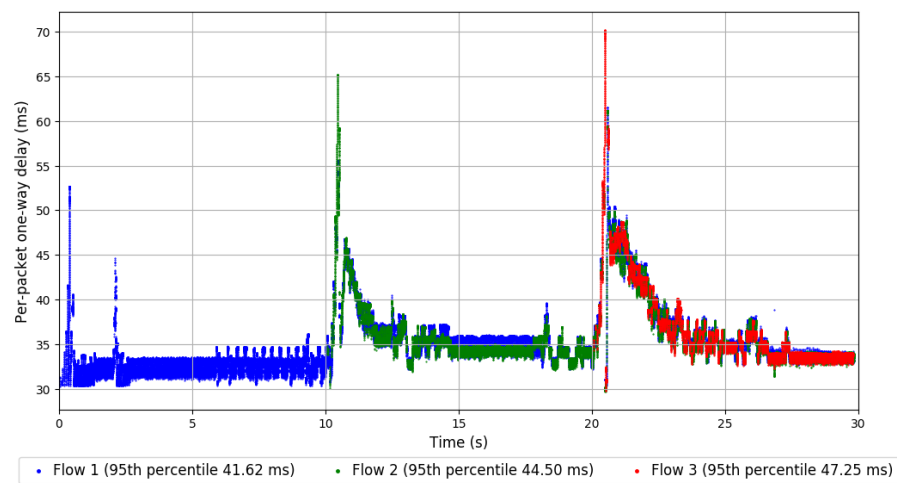
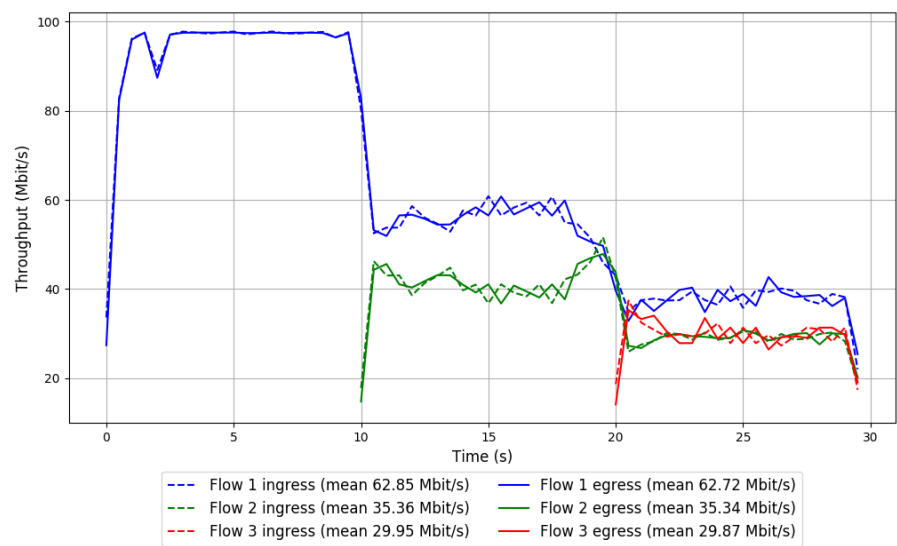


Run 10: Statistics of Indigo-1-32

Start at: 2018-03-21 08:37:29  
End at: 2018-03-21 08:37:59  
Local clock offset: -0.436 ms  
Remote clock offset: -0.649 ms

# Below is generated by plot.py at 2018-03-21 09:37:07  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.92 Mbit/s  
95th percentile per-packet one-way delay: 43.684 ms  
Loss rate: 0.17%  
-- Flow 1:  
Average throughput: 62.72 Mbit/s  
95th percentile per-packet one-way delay: 41.625 ms  
Loss rate: 0.20%  
-- Flow 2:  
Average throughput: 35.34 Mbit/s  
95th percentile per-packet one-way delay: 44.496 ms  
Loss rate: 0.08%  
-- Flow 3:  
Average throughput: 29.87 Mbit/s  
95th percentile per-packet one-way delay: 47.248 ms  
Loss rate: 0.26%

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



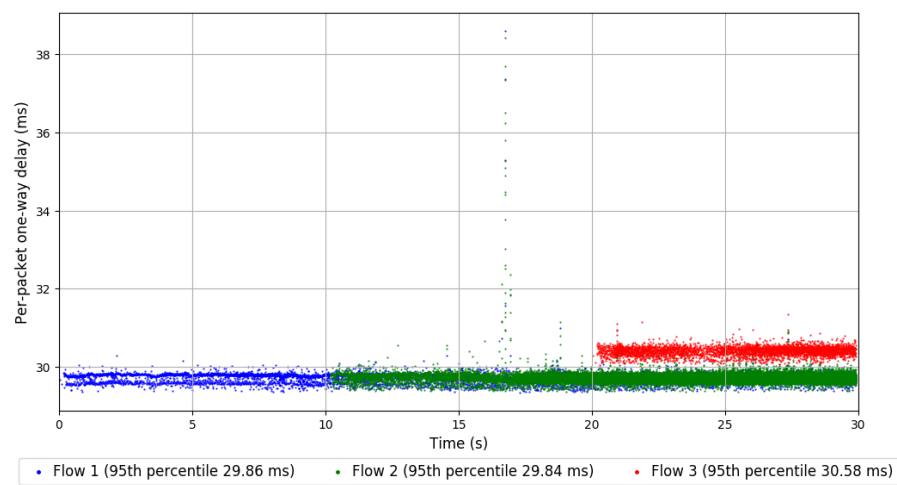
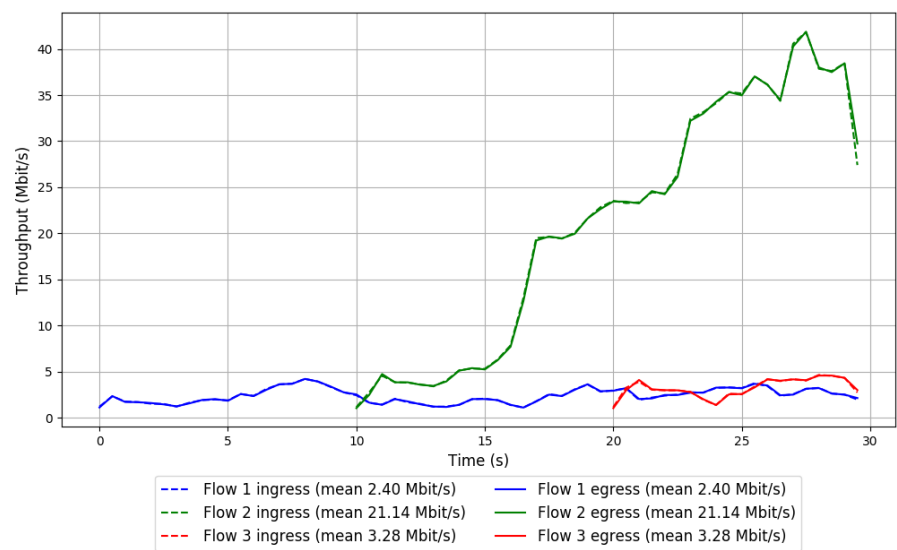
Run 1: Statistics of Vivace-latency

Start at: 2018-03-21 04:11:07  
End at: 2018-03-21 04:11:37  
Local clock offset: 0.181 ms  
Remote clock offset: -2.982 ms

# Below is generated by plot.py at 2018-03-21 09:37:07  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 17.54 Mbit/s  
95th percentile per-packet one-way delay: 30.356 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 2.40 Mbit/s  
95th percentile per-packet one-way delay: 29.862 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 21.14 Mbit/s  
95th percentile per-packet one-way delay: 29.839 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 3.28 Mbit/s  
95th percentile per-packet one-way delay: 30.577 ms  
Loss rate: 0.00%



Run 1: Report of Vivace-latency — Data Link

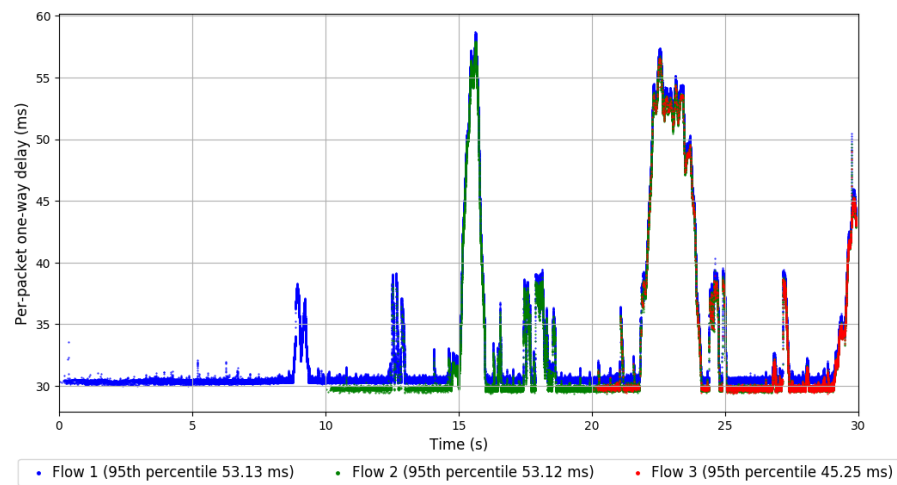
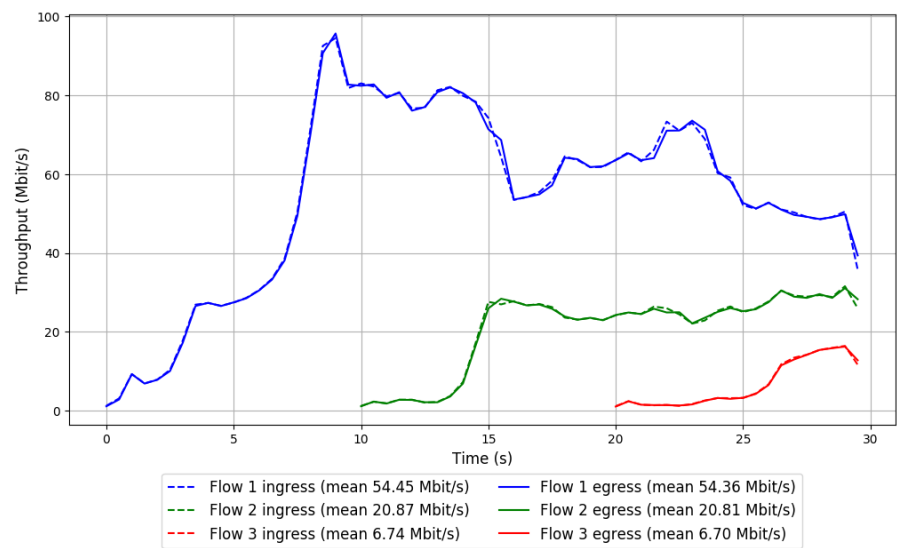


Run 2: Statistics of Vivace-latency

Start at: 2018-03-21 04:41:53  
End at: 2018-03-21 04:42:23  
Local clock offset: -0.343 ms  
Remote clock offset: -1.145 ms

# Below is generated by plot.py at 2018-03-21 09:37:07  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 70.40 Mbit/s  
95th percentile per-packet one-way delay: 53.080 ms  
Loss rate: 0.16%  
-- Flow 1:  
Average throughput: 54.36 Mbit/s  
95th percentile per-packet one-way delay: 53.128 ms  
Loss rate: 0.13%  
-- Flow 2:  
Average throughput: 20.81 Mbit/s  
95th percentile per-packet one-way delay: 53.117 ms  
Loss rate: 0.23%  
-- Flow 3:  
Average throughput: 6.70 Mbit/s  
95th percentile per-packet one-way delay: 45.248 ms  
Loss rate: 0.40%

Run 2: Report of Vivace-latency — Data Link

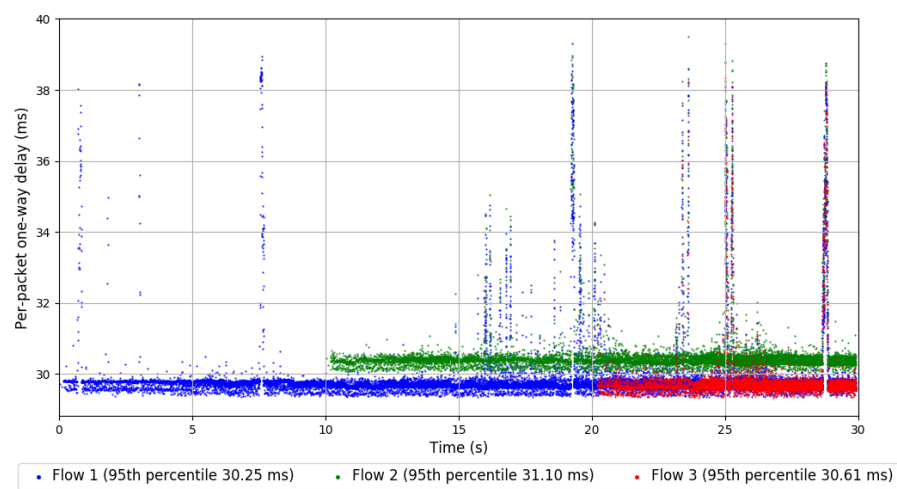
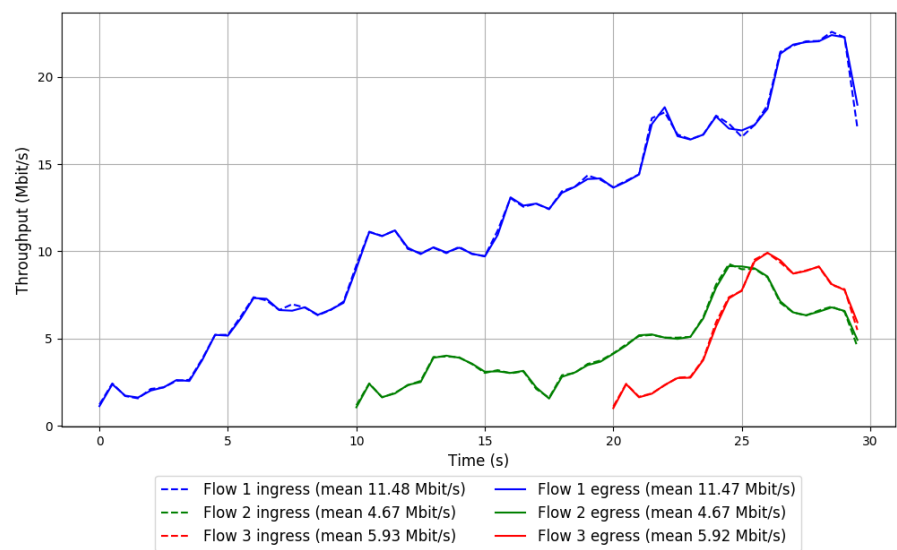


Run 3: Statistics of Vivace-latency

Start at: 2018-03-21 05:10:59  
End at: 2018-03-21 05:11:29  
Local clock offset: -0.345 ms  
Remote clock offset: -0.899 ms

# Below is generated by plot.py at 2018-03-21 09:37:07  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 16.53 Mbit/s  
95th percentile per-packet one-way delay: 30.668 ms  
Loss rate: 0.08%  
-- Flow 1:  
Average throughput: 11.47 Mbit/s  
95th percentile per-packet one-way delay: 30.253 ms  
Loss rate: 0.09%  
-- Flow 2:  
Average throughput: 4.67 Mbit/s  
95th percentile per-packet one-way delay: 31.103 ms  
Loss rate: 0.06%  
-- Flow 3:  
Average throughput: 5.92 Mbit/s  
95th percentile per-packet one-way delay: 30.610 ms  
Loss rate: 0.06%

Run 3: Report of Vivace-latency — Data Link

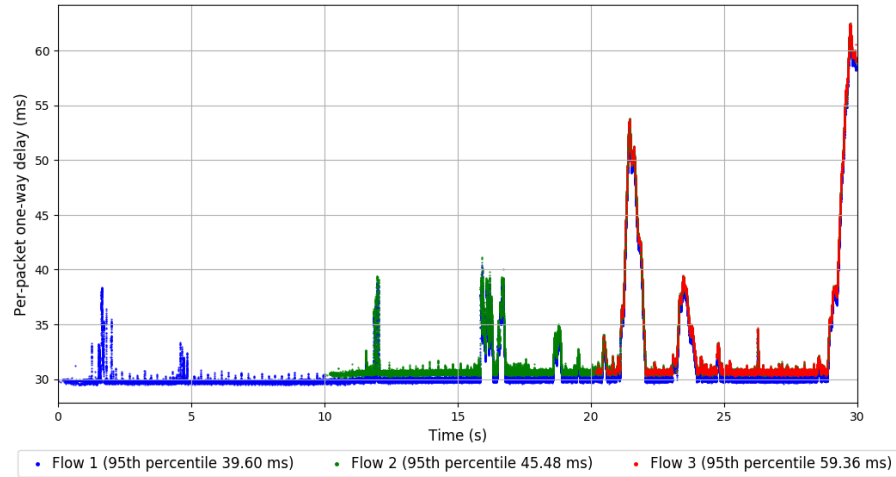
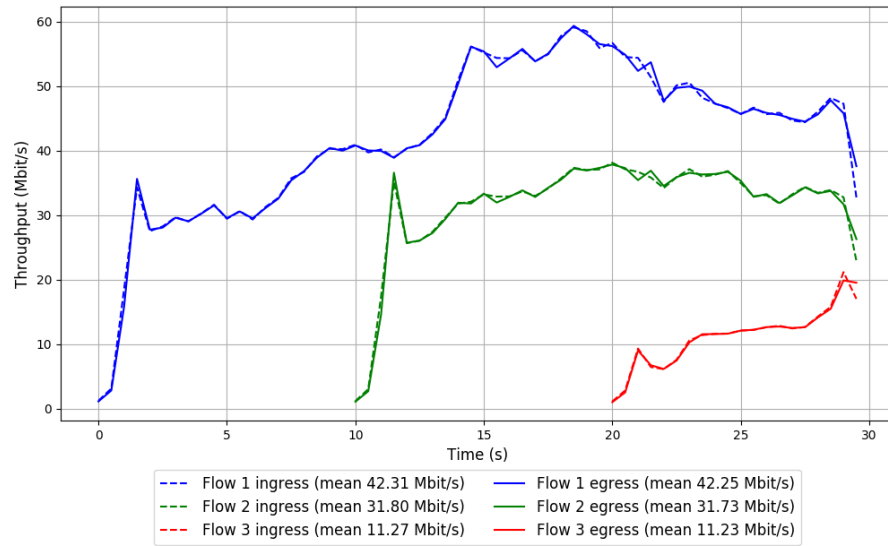


Run 4: Statistics of Vivace-latency

Start at: 2018-03-21 05:40:15  
End at: 2018-03-21 05:40:45  
Local clock offset: -0.192 ms  
Remote clock offset: -1.333 ms

# Below is generated by plot.py at 2018-03-21 09:37:07  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 67.06 Mbit/s  
95th percentile per-packet one-way delay: 43.903 ms  
Loss rate: 0.06%  
-- Flow 1:  
Average throughput: 42.25 Mbit/s  
95th percentile per-packet one-way delay: 39.602 ms  
Loss rate: 0.06%  
-- Flow 2:  
Average throughput: 31.73 Mbit/s  
95th percentile per-packet one-way delay: 45.485 ms  
Loss rate: 0.08%  
-- Flow 3:  
Average throughput: 11.23 Mbit/s  
95th percentile per-packet one-way delay: 59.362 ms  
Loss rate: 0.01%

# Run 4: Report of Vivace-latency — Data Link



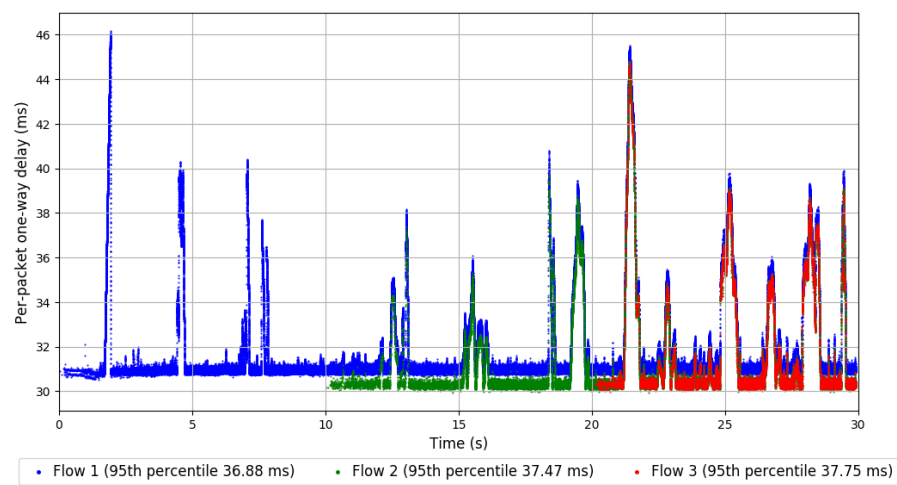
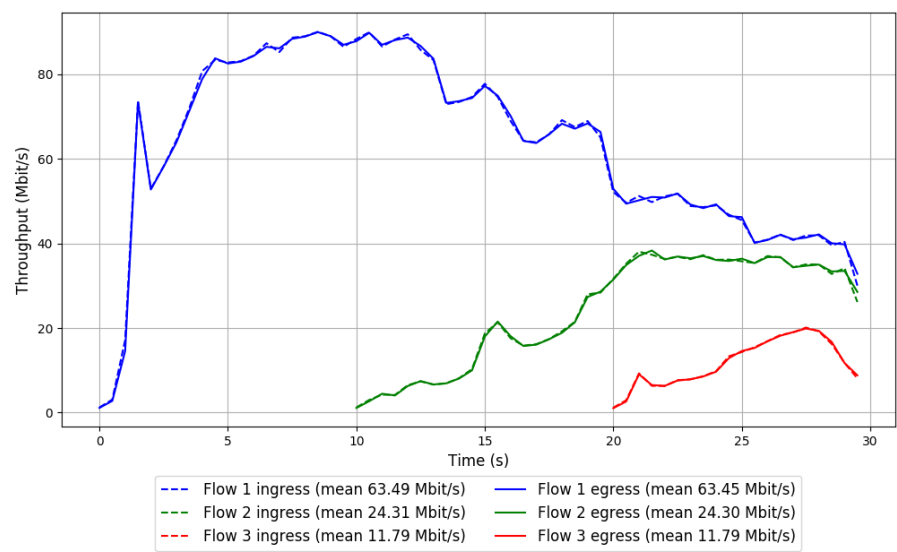
Run 5: Statistics of Vivace-latency

Start at: 2018-03-21 06:10:22  
End at: 2018-03-21 06:10:52  
Local clock offset: -0.167 ms  
Remote clock offset: -1.745 ms

# Below is generated by plot.py at 2018-03-21 09:37:07  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 83.50 Mbit/s  
95th percentile per-packet one-way delay: 37.090 ms  
Loss rate: 0.06%  
-- Flow 1:  
Average throughput: 63.45 Mbit/s  
95th percentile per-packet one-way delay: 36.884 ms  
Loss rate: 0.06%  
-- Flow 2:  
Average throughput: 24.30 Mbit/s  
95th percentile per-packet one-way delay: 37.470 ms  
Loss rate: 0.04%  
-- Flow 3:  
Average throughput: 11.79 Mbit/s  
95th percentile per-packet one-way delay: 37.747 ms  
Loss rate: 0.04%



Run 5: Report of Vivace-latency — Data Link

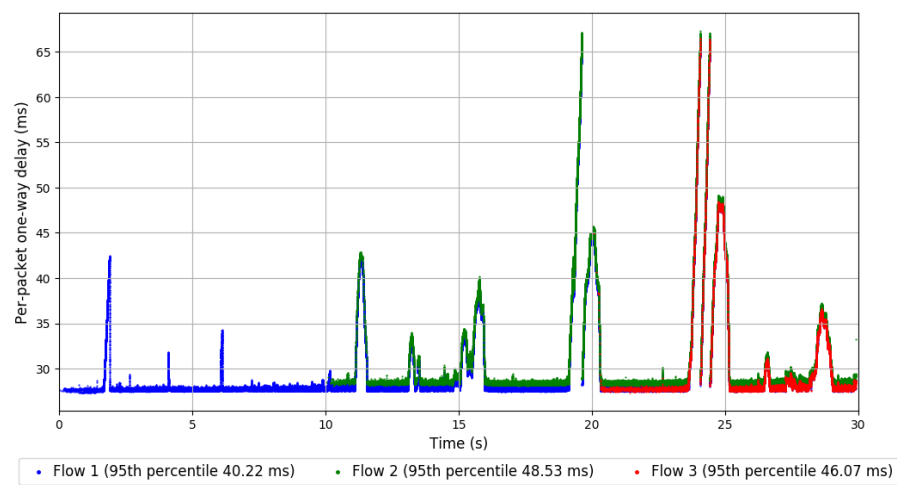
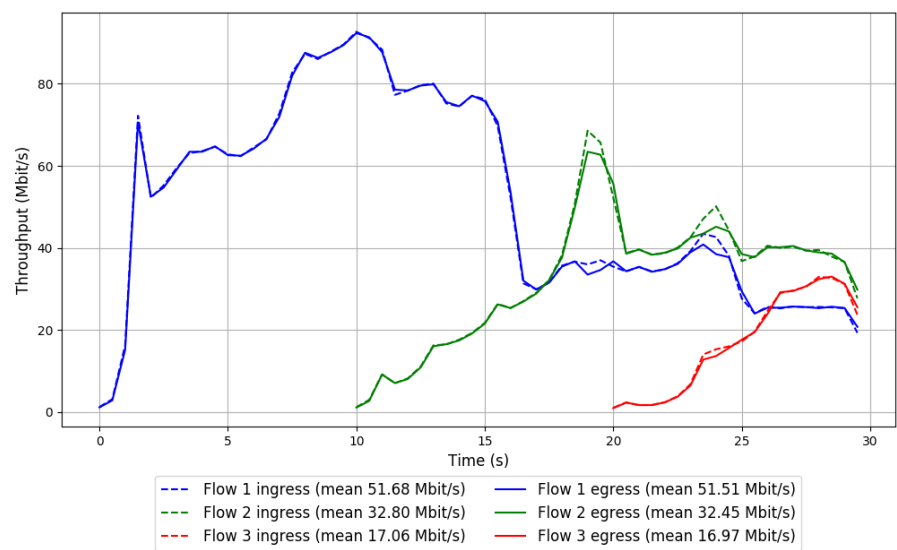


Run 6: Statistics of Vivace-latency

Start at: 2018-03-21 06:38:02  
End at: 2018-03-21 06:38:32  
Local clock offset: -0.229 ms  
Remote clock offset: -3.733 ms

# Below is generated by plot.py at 2018-03-21 09:37:07  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 78.66 Mbit/s  
95th percentile per-packet one-way delay: 43.522 ms  
Loss rate: 0.55%  
-- Flow 1:  
Average throughput: 51.51 Mbit/s  
95th percentile per-packet one-way delay: 40.217 ms  
Loss rate: 0.32%  
-- Flow 2:  
Average throughput: 32.45 Mbit/s  
95th percentile per-packet one-way delay: 48.535 ms  
Loss rate: 1.04%  
-- Flow 3:  
Average throughput: 16.97 Mbit/s  
95th percentile per-packet one-way delay: 46.074 ms  
Loss rate: 0.72%

Run 6: Report of Vivace-latency — Data Link

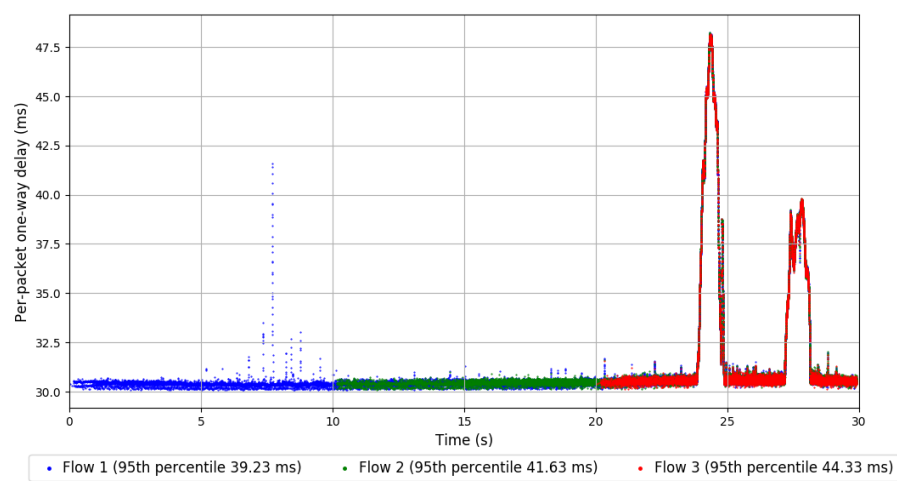
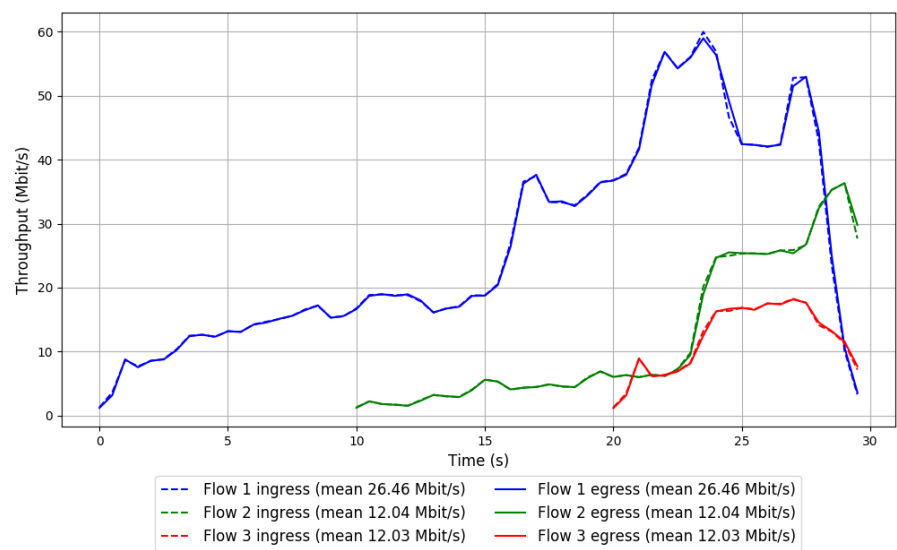


Run 7: Statistics of Vivace-latency

Start at: 2018-03-21 07:05:52  
End at: 2018-03-21 07:06:22  
Local clock offset: -0.1 ms  
Remote clock offset: -0.685 ms

```
# Below is generated by plot.py at 2018-03-21 09:37:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 38.43 Mbit/s
95th percentile per-packet one-way delay: 40.429 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 26.46 Mbit/s
95th percentile per-packet one-way delay: 39.231 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 12.04 Mbit/s
95th percentile per-packet one-way delay: 41.629 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 12.03 Mbit/s
95th percentile per-packet one-way delay: 44.326 ms
Loss rate: 0.01%
```

Run 7: Report of Vivace-latency — Data Link

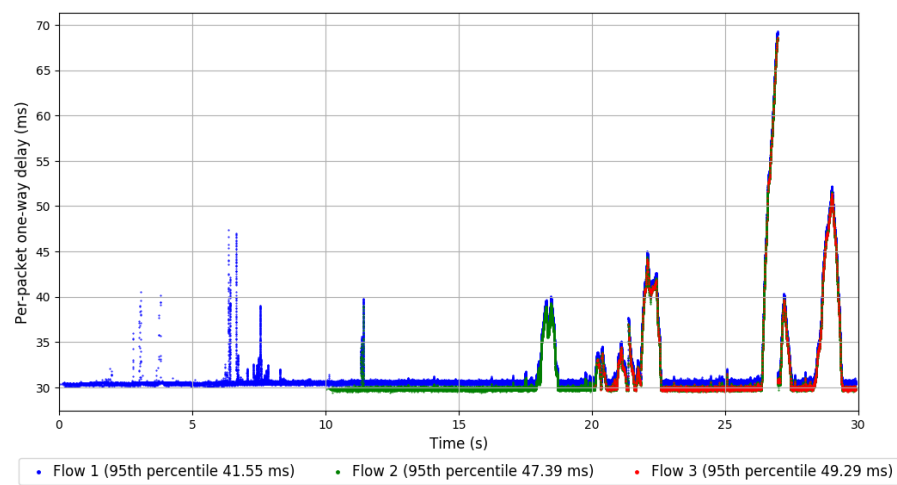
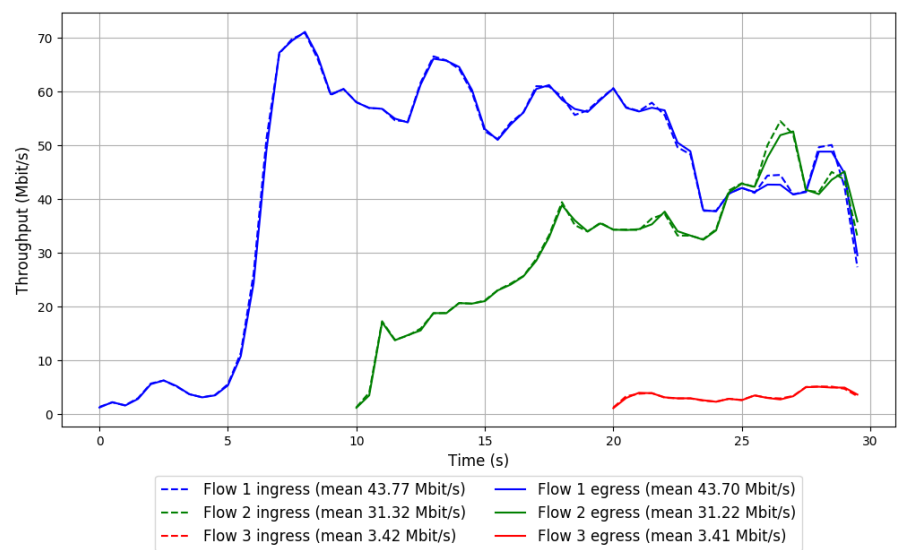


Run 8: Statistics of Vivace-latency

Start at: 2018-03-21 07:32:27  
End at: 2018-03-21 07:32:57  
Local clock offset: -0.381 ms  
Remote clock offset: -2.332 ms

# Below is generated by plot.py at 2018-03-21 09:37:09  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 65.58 Mbit/s  
95th percentile per-packet one-way delay: 43.493 ms  
Loss rate: 0.22%  
-- Flow 1:  
Average throughput: 43.70 Mbit/s  
95th percentile per-packet one-way delay: 41.545 ms  
Loss rate: 0.16%  
-- Flow 2:  
Average throughput: 31.22 Mbit/s  
95th percentile per-packet one-way delay: 47.389 ms  
Loss rate: 0.34%  
-- Flow 3:  
Average throughput: 3.41 Mbit/s  
95th percentile per-packet one-way delay: 49.290 ms  
Loss rate: 0.31%

Run 8: Report of Vivace-latency — Data Link



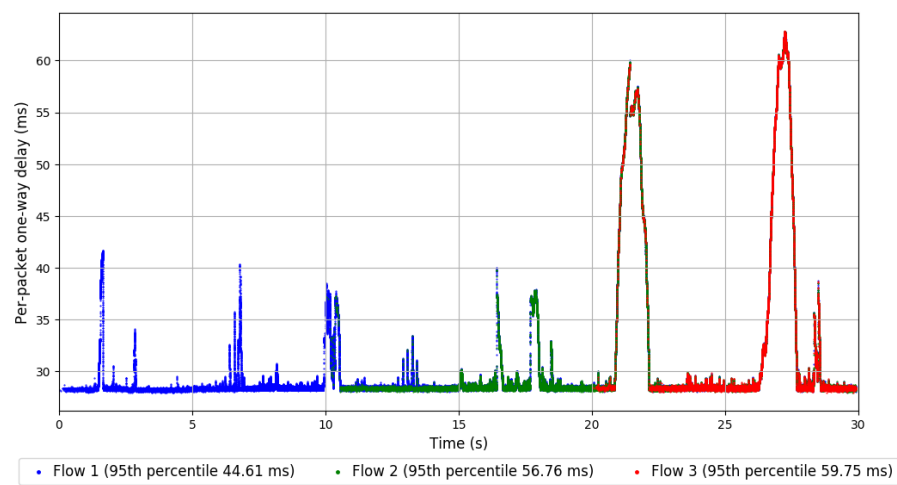
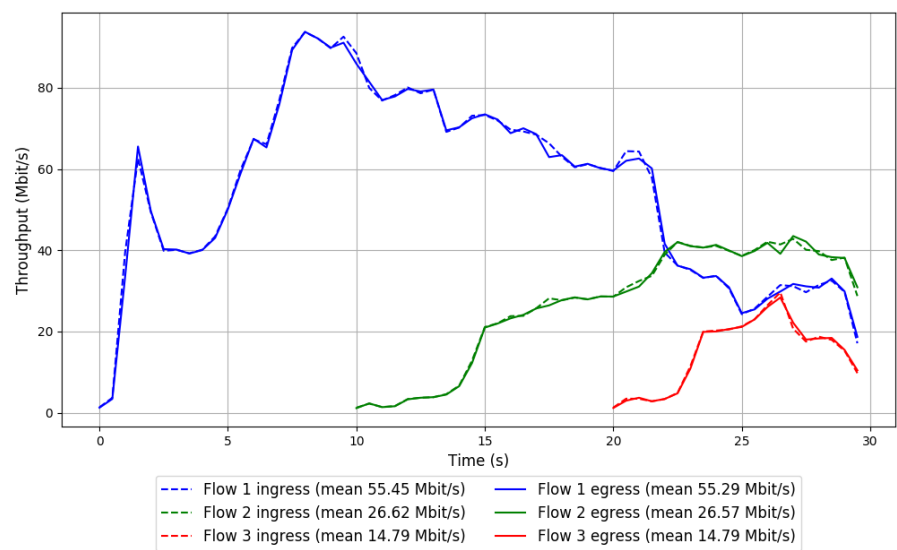
Run 9: Statistics of Vivace-latency

Start at: 2018-03-21 08:00:03  
End at: 2018-03-21 08:00:33  
Local clock offset: -0.485 ms  
Remote clock offset: -1.258 ms

# Below is generated by plot.py at 2018-03-21 09:37:34  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 77.83 Mbit/s  
95th percentile per-packet one-way delay: 52.425 ms  
Loss rate: 0.25%  
-- Flow 1:  
Average throughput: 55.29 Mbit/s  
95th percentile per-packet one-way delay: 44.612 ms  
Loss rate: 0.28%  
-- Flow 2:  
Average throughput: 26.57 Mbit/s  
95th percentile per-packet one-way delay: 56.758 ms  
Loss rate: 0.21%  
-- Flow 3:  
Average throughput: 14.79 Mbit/s  
95th percentile per-packet one-way delay: 59.753 ms  
Loss rate: 0.06%



Run 9: Report of Vivace-latency — Data Link



Run 10: Statistics of Vivace-latency

Start at: 2018-03-21 08:26:16

End at: 2018-03-21 08:26:46

Local clock offset: -0.582 ms

Remote clock offset: 0.171 ms

# Below is generated by plot.py at 2018-03-21 09:37:41

# Datalink statistics

-- Total of 3 flows:

Average throughput: 82.21 Mbit/s

95th percentile per-packet one-way delay: 49.107 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 60.39 Mbit/s

95th percentile per-packet one-way delay: 49.616 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 24.67 Mbit/s

95th percentile per-packet one-way delay: 43.170 ms

Loss rate: 0.05%

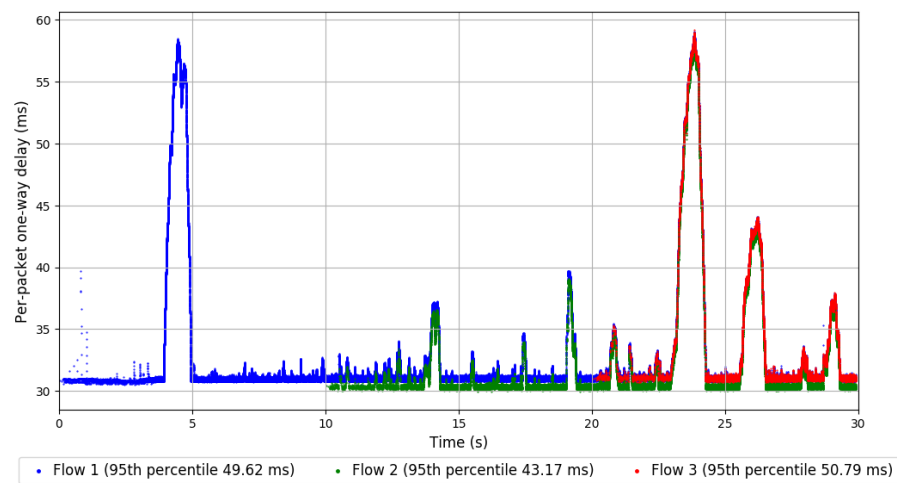
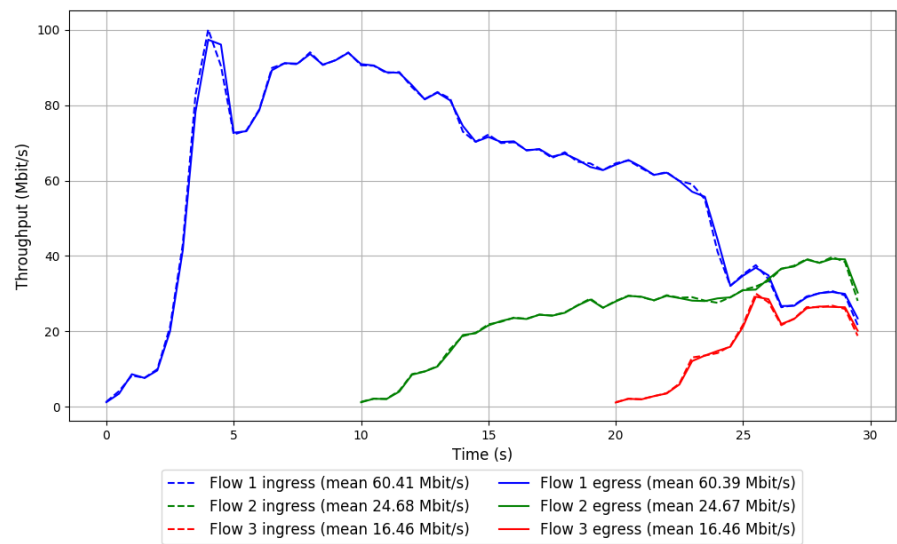
-- Flow 3:

Average throughput: 16.46 Mbit/s

95th percentile per-packet one-way delay: 50.787 ms

Loss rate: 0.03%

Run 10: Report of Vivace-latency — Data Link

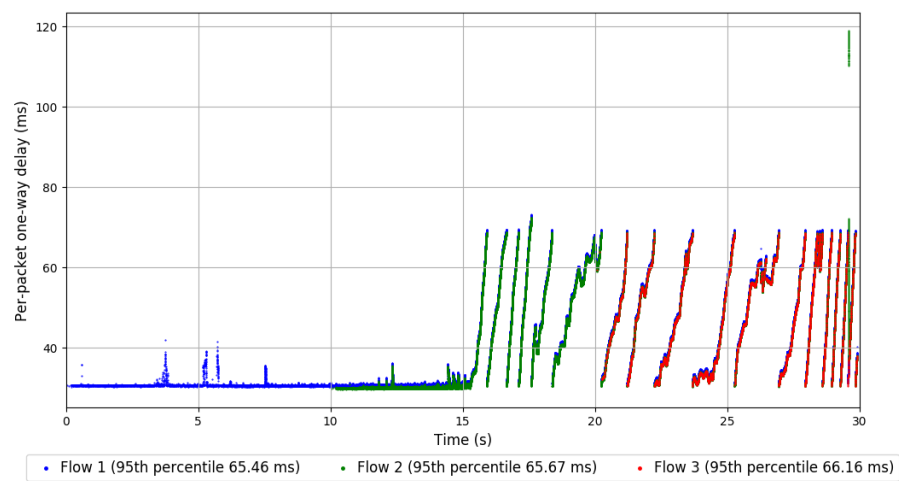
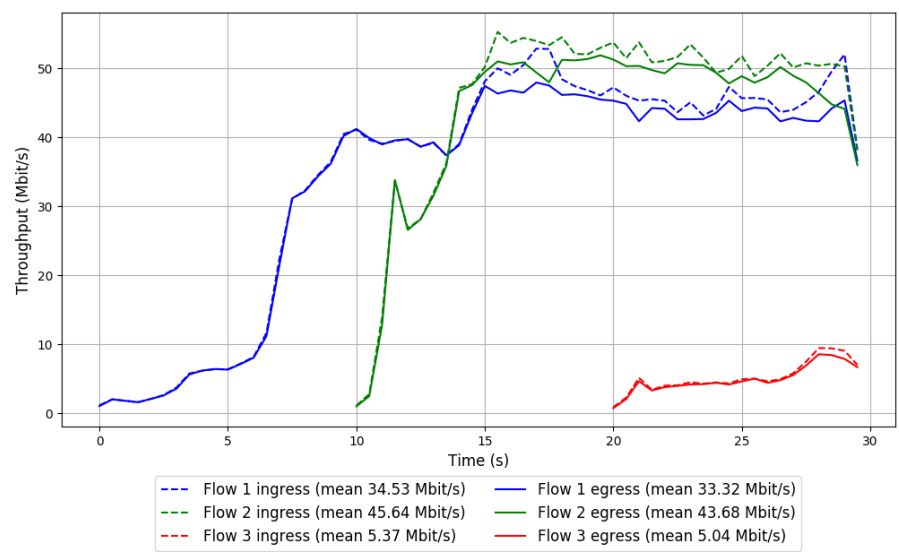


```
Run 1: Statistics of Vivace-loss

Start at: 2018-03-21 04:14:56
End at: 2018-03-21 04:15:26
Local clock offset: 0.15 ms
Remote clock offset: -2.591 ms

# Below is generated by plot.py at 2018-03-21 09:37:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 64.02 Mbit/s
95th percentile per-packet one-way delay: 65.596 ms
Loss rate: 3.90%
-- Flow 1:
Average throughput: 33.32 Mbit/s
95th percentile per-packet one-way delay: 65.462 ms
Loss rate: 3.47%
-- Flow 2:
Average throughput: 43.68 Mbit/s
95th percentile per-packet one-way delay: 65.667 ms
Loss rate: 4.26%
-- Flow 3:
Average throughput: 5.04 Mbit/s
95th percentile per-packet one-way delay: 66.158 ms
Loss rate: 6.35%
```

Run 1: Report of Vivace-loss — Data Link

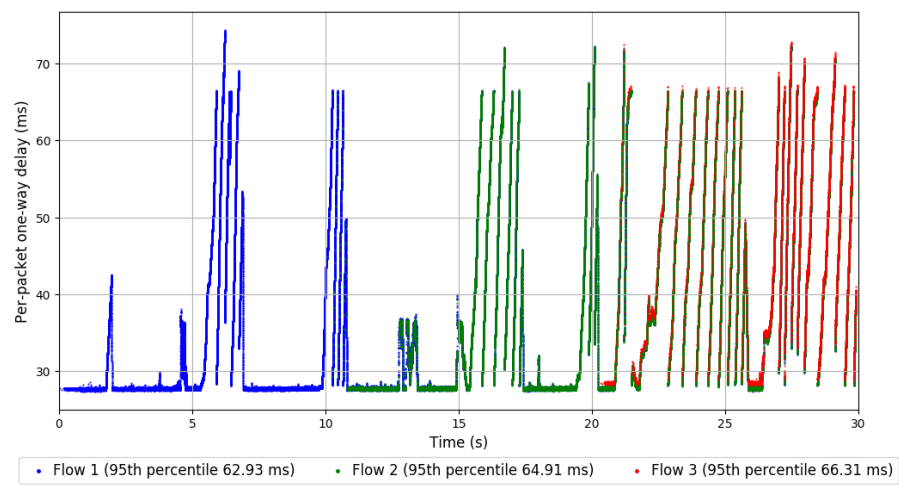
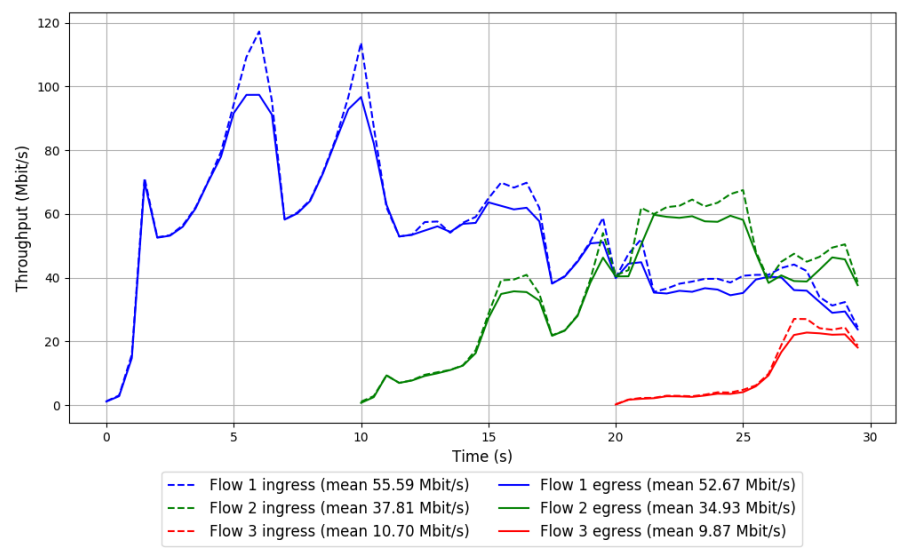


Run 2: Statistics of Vivace-loss

Start at: 2018-03-21 04:45:19  
End at: 2018-03-21 04:45:49  
Local clock offset: -0.405 ms  
Remote clock offset: -2.905 ms

# Below is generated by plot.py at 2018-03-21 09:38:09  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 79.04 Mbit/s  
95th percentile per-packet one-way delay: 64.153 ms  
Loss rate: 6.15%  
-- Flow 1:  
Average throughput: 52.67 Mbit/s  
95th percentile per-packet one-way delay: 62.932 ms  
Loss rate: 5.22%  
-- Flow 2:  
Average throughput: 34.93 Mbit/s  
95th percentile per-packet one-way delay: 64.905 ms  
Loss rate: 7.65%  
-- Flow 3:  
Average throughput: 9.87 Mbit/s  
95th percentile per-packet one-way delay: 66.307 ms  
Loss rate: 10.07%

Run 2: Report of Vivace-loss — Data Link



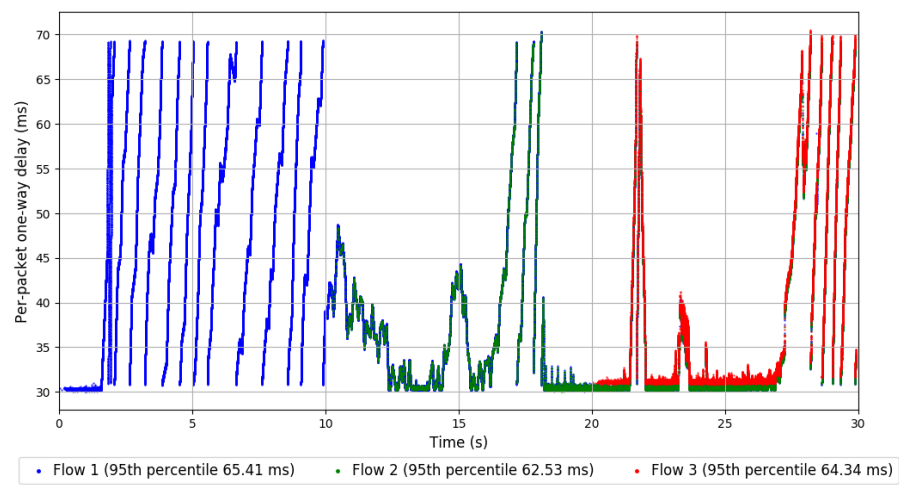
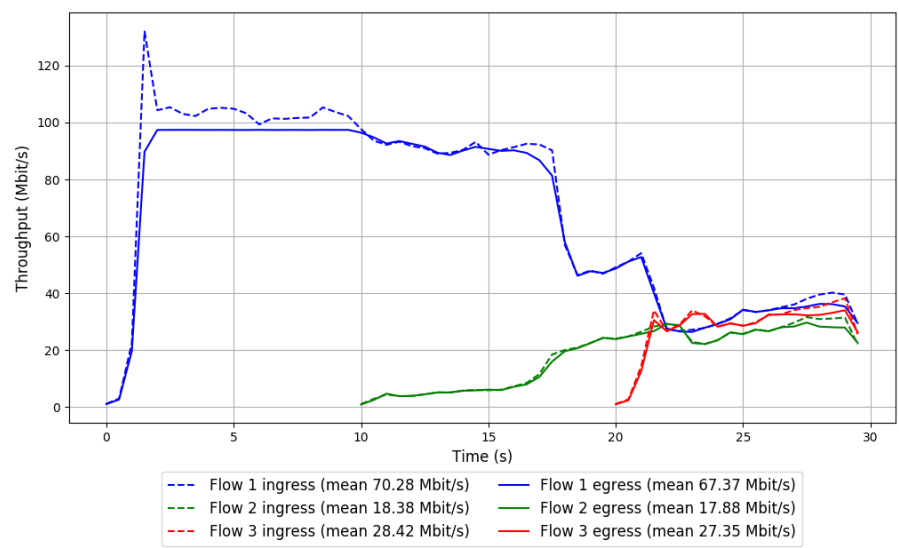
Run 3: Statistics of Vivace-loss

Start at: 2018-03-21 05:14:37  
End at: 2018-03-21 05:15:07  
Local clock offset: -0.36 ms  
Remote clock offset: -0.147 ms

# Below is generated by plot.py at 2018-03-21 09:38:36  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 88.28 Mbit/s  
95th percentile per-packet one-way delay: 65.081 ms  
Loss rate: 3.90%  
-- Flow 1:  
Average throughput: 67.37 Mbit/s  
95th percentile per-packet one-way delay: 65.406 ms  
Loss rate: 4.13%  
-- Flow 2:  
Average throughput: 17.88 Mbit/s  
95th percentile per-packet one-way delay: 62.531 ms  
Loss rate: 2.74%  
-- Flow 3:  
Average throughput: 27.35 Mbit/s  
95th percentile per-packet one-way delay: 64.338 ms  
Loss rate: 3.72%



Run 3: Report of Vivace-loss — Data Link

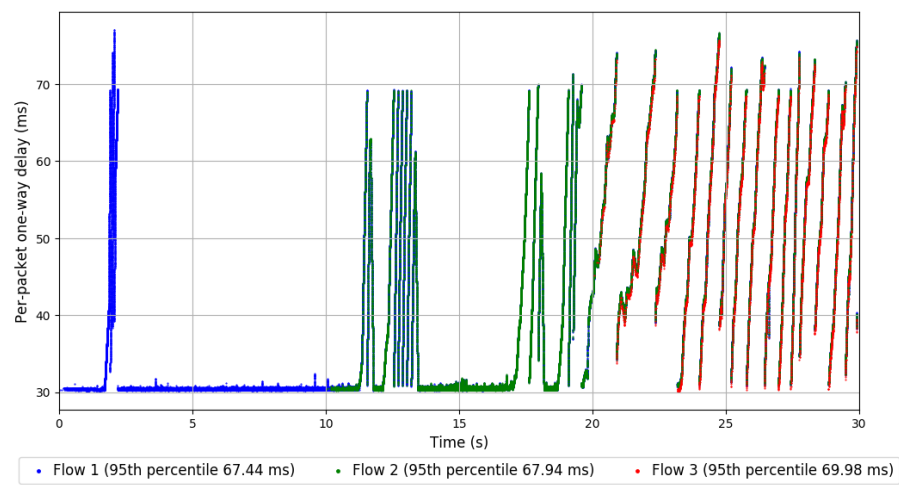
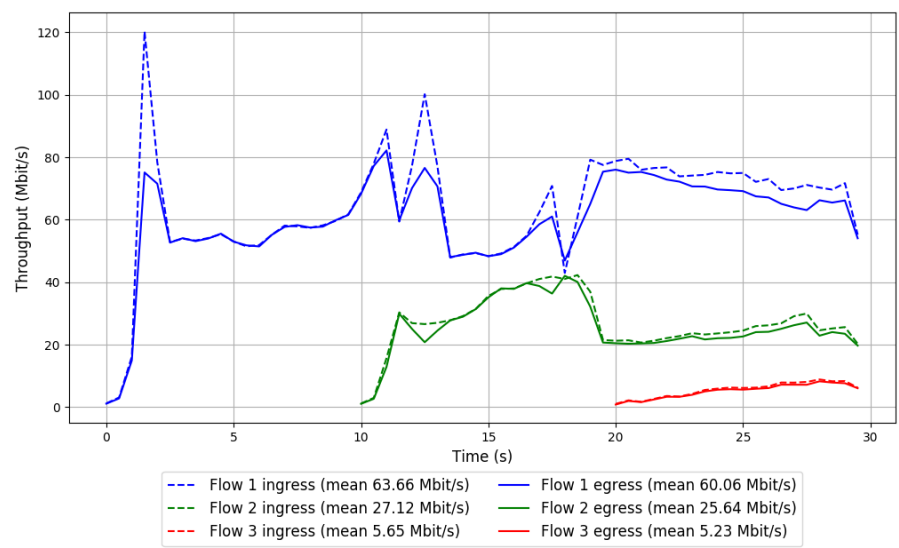


Run 4: Statistics of Vivace-loss

Start at: 2018-03-21 05:43:59  
End at: 2018-03-21 05:44:29  
Local clock offset: -0.149 ms  
Remote clock offset: -1.322 ms

# Below is generated by plot.py at 2018-03-21 09:38:36  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 78.83 Mbit/s  
95th percentile per-packet one-way delay: 67.675 ms  
Loss rate: 5.62%  
-- Flow 1:  
Average throughput: 60.06 Mbit/s  
95th percentile per-packet one-way delay: 67.438 ms  
Loss rate: 5.63%  
-- Flow 2:  
Average throughput: 25.64 Mbit/s  
95th percentile per-packet one-way delay: 67.939 ms  
Loss rate: 5.42%  
-- Flow 3:  
Average throughput: 5.23 Mbit/s  
95th percentile per-packet one-way delay: 69.982 ms  
Loss rate: 7.42%

Run 4: Report of Vivace-loss — Data Link

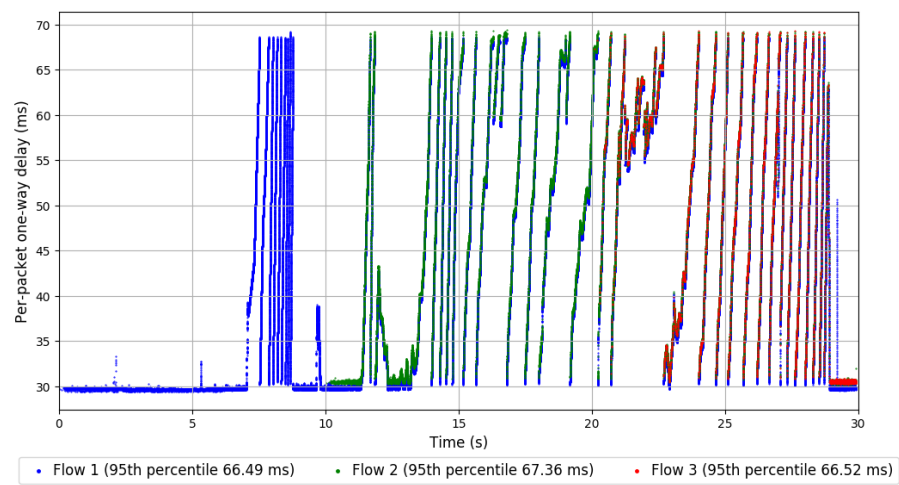
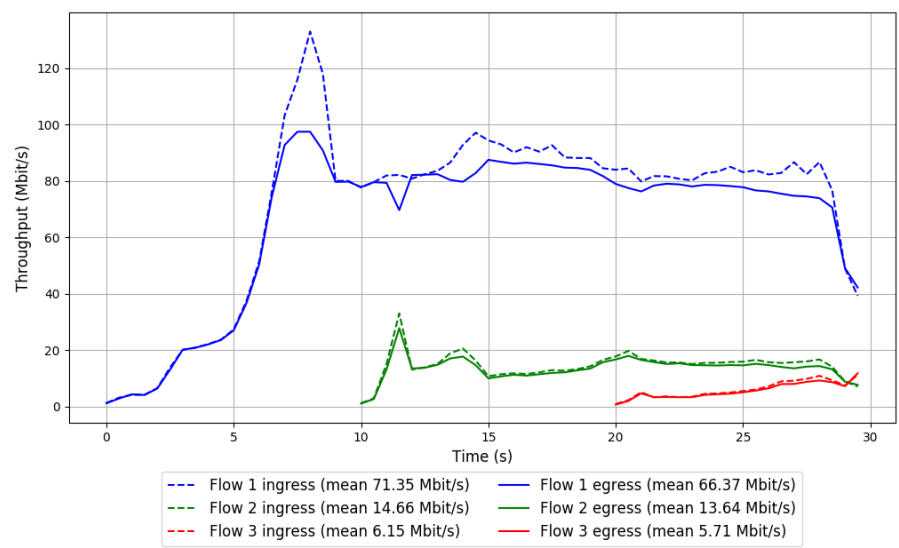


Run 5: Statistics of Vivace-loss

Start at: 2018-03-21 06:13:38  
End at: 2018-03-21 06:14:08  
Local clock offset: -0.18 ms  
Remote clock offset: -2.266 ms

# Below is generated by plot.py at 2018-03-21 09:38:36  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 77.31 Mbit/s  
95th percentile per-packet one-way delay: 66.612 ms  
Loss rate: 6.99%  
-- Flow 1:  
Average throughput: 66.37 Mbit/s  
95th percentile per-packet one-way delay: 66.486 ms  
Loss rate: 6.98%  
-- Flow 2:  
Average throughput: 13.64 Mbit/s  
95th percentile per-packet one-way delay: 67.356 ms  
Loss rate: 6.98%  
-- Flow 3:  
Average throughput: 5.71 Mbit/s  
95th percentile per-packet one-way delay: 66.524 ms  
Loss rate: 7.45%

Run 5: Report of Vivace-loss — Data Link

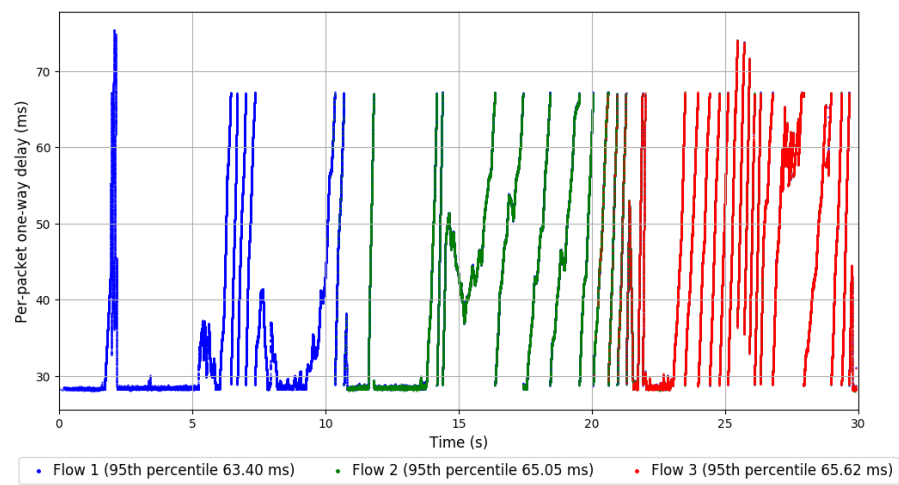
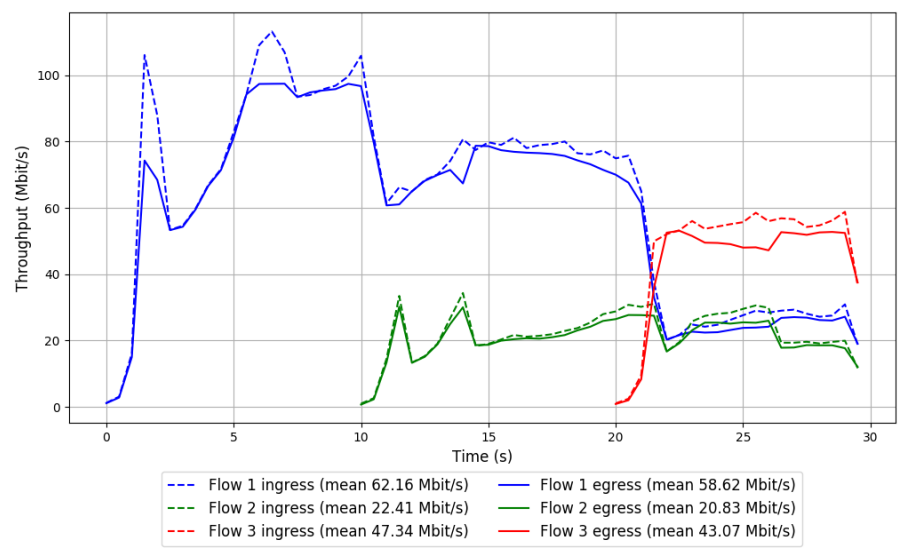


Run 6: Statistics of Vivace-loss

Start at: 2018-03-21 06:40:59  
End at: 2018-03-21 06:41:29  
Local clock offset: -0.292 ms  
Remote clock offset: -3.619 ms

# Below is generated by plot.py at 2018-03-21 09:38:38  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 86.64 Mbit/s  
95th percentile per-packet one-way delay: 64.288 ms  
Loss rate: 6.49%  
-- Flow 1:  
Average throughput: 58.62 Mbit/s  
95th percentile per-packet one-way delay: 63.403 ms  
Loss rate: 5.69%  
-- Flow 2:  
Average throughput: 20.83 Mbit/s  
95th percentile per-packet one-way delay: 65.046 ms  
Loss rate: 7.15%  
-- Flow 3:  
Average throughput: 43.07 Mbit/s  
95th percentile per-packet one-way delay: 65.622 ms  
Loss rate: 9.01%

Run 6: Report of Vivace-loss — Data Link



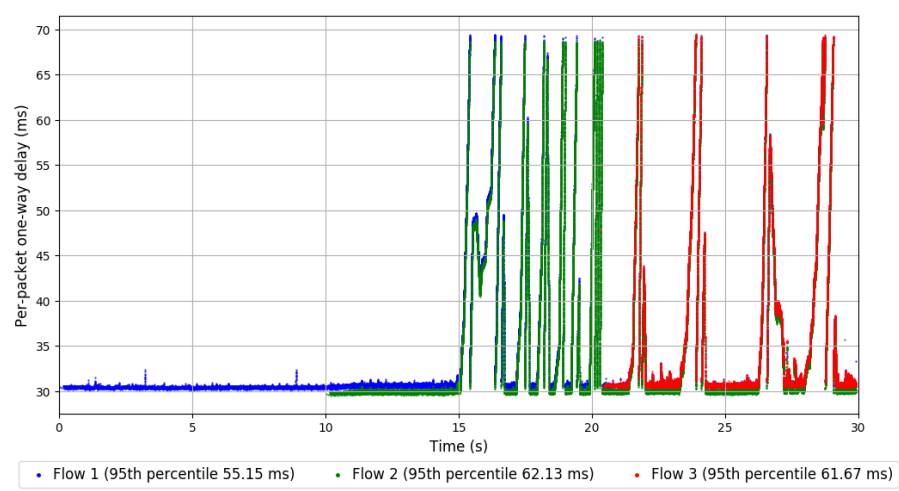
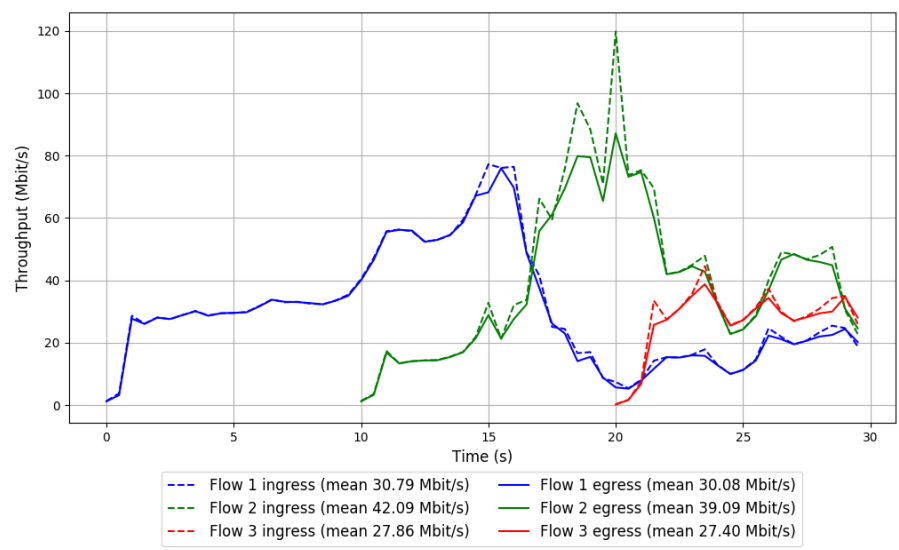
Run 7: Statistics of Vivace-loss

Start at: 2018-03-21 07:08:55  
End at: 2018-03-21 07:09:25  
Local clock offset: -0.085 ms  
Remote clock offset: -0.975 ms

# Below is generated by plot.py at 2018-03-21 09:38:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 64.84 Mbit/s  
95th percentile per-packet one-way delay: 60.016 ms  
Loss rate: 4.57%  
-- Flow 1:  
Average throughput: 30.08 Mbit/s  
95th percentile per-packet one-way delay: 55.153 ms  
Loss rate: 2.31%  
-- Flow 2:  
Average throughput: 39.09 Mbit/s  
95th percentile per-packet one-way delay: 62.130 ms  
Loss rate: 7.12%  
-- Flow 3:  
Average throughput: 27.40 Mbit/s  
95th percentile per-packet one-way delay: 61.675 ms  
Loss rate: 4.36%



Run 7: Report of Vivace-loss — Data Link

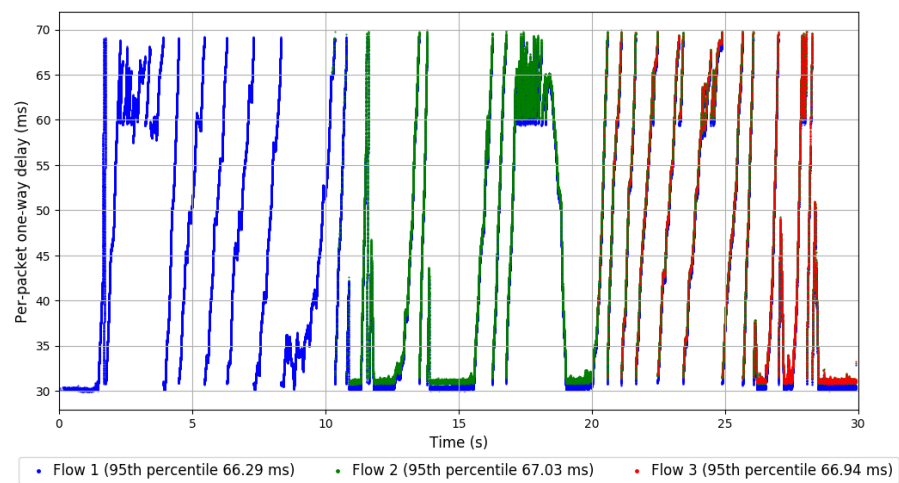
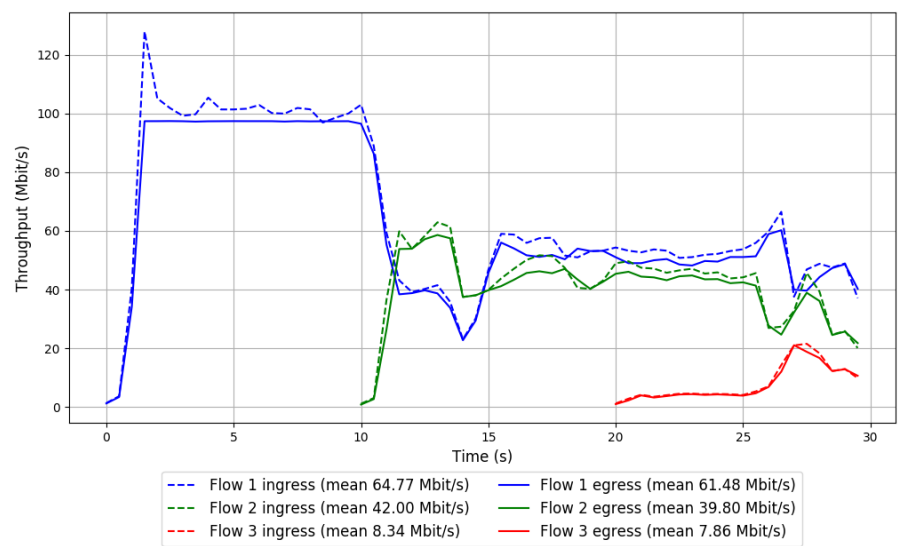


Run 8: Statistics of Vivace-loss

Start at: 2018-03-21 07:35:30  
End at: 2018-03-21 07:36:00  
Local clock offset: -0.491 ms  
Remote clock offset: -1.952 ms

# Below is generated by plot.py at 2018-03-21 09:39:04  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 90.50 Mbit/s  
95th percentile per-packet one-way delay: 66.500 ms  
Loss rate: 5.17%  
-- Flow 1:  
Average throughput: 61.48 Mbit/s  
95th percentile per-packet one-way delay: 66.288 ms  
Loss rate: 5.07%  
-- Flow 2:  
Average throughput: 39.80 Mbit/s  
95th percentile per-packet one-way delay: 67.026 ms  
Loss rate: 5.35%  
-- Flow 3:  
Average throughput: 7.86 Mbit/s  
95th percentile per-packet one-way delay: 66.938 ms  
Loss rate: 5.81%

Run 8: Report of Vivace-loss — Data Link

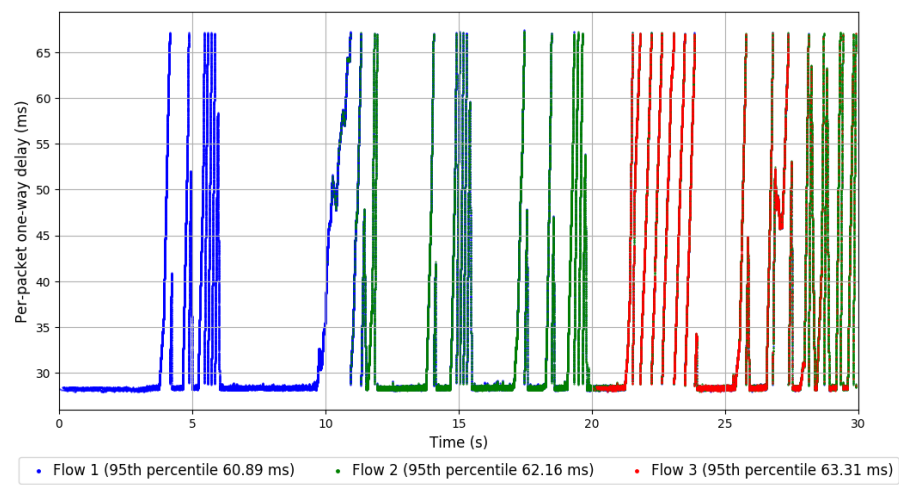
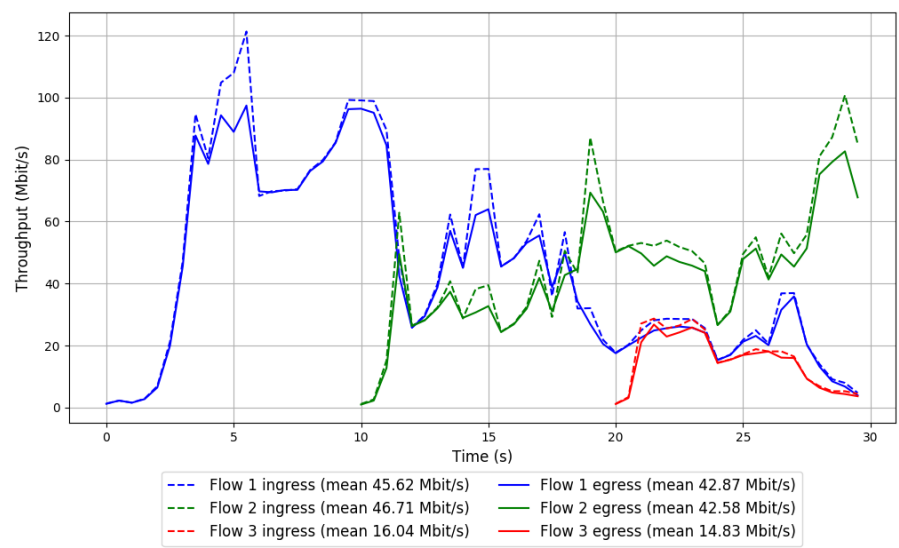


Run 9: Statistics of Vivace-loss

Start at: 2018-03-21 08:03:08  
End at: 2018-03-21 08:03:38  
Local clock offset: -0.517 ms  
Remote clock offset: -1.097 ms

# Below is generated by plot.py at 2018-03-21 09:39:04  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 76.05 Mbit/s  
95th percentile per-packet one-way delay: 61.775 ms  
Loss rate: 7.22%  
-- Flow 1:  
Average throughput: 42.87 Mbit/s  
95th percentile per-packet one-way delay: 60.891 ms  
Loss rate: 6.03%  
-- Flow 2:  
Average throughput: 42.58 Mbit/s  
95th percentile per-packet one-way delay: 62.161 ms  
Loss rate: 8.92%  
-- Flow 3:  
Average throughput: 14.83 Mbit/s  
95th percentile per-packet one-way delay: 63.314 ms  
Loss rate: 7.49%

Run 9: Report of Vivace-loss — Data Link

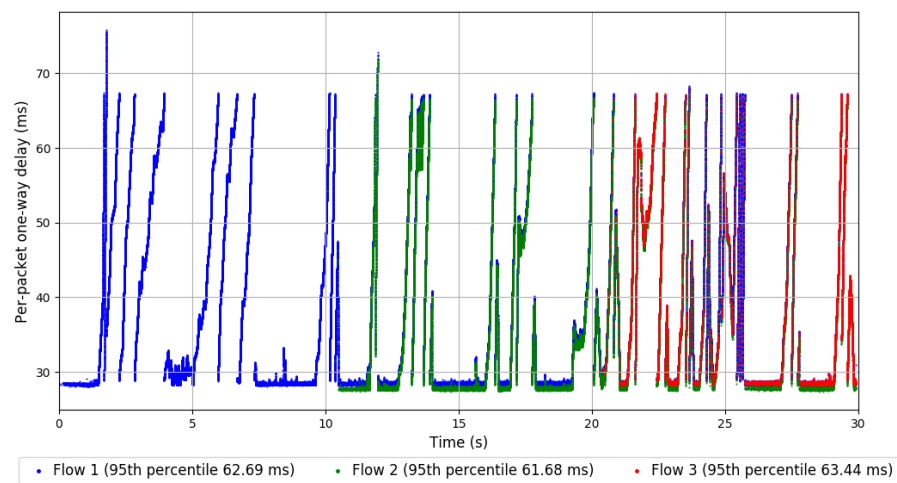
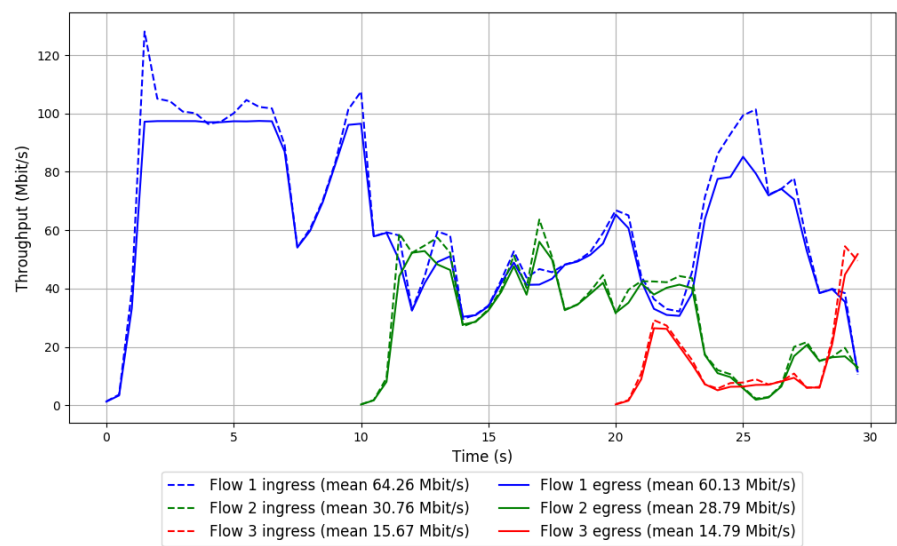


Run 10: Statistics of Vivace-loss

Start at: 2018-03-21 08:29:08  
End at: 2018-03-21 08:29:38  
Local clock offset: -0.636 ms  
Remote clock offset: -2.577 ms

# Below is generated by plot.py at 2018-03-21 09:39:34  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 83.99 Mbit/s  
95th percentile per-packet one-way delay: 62.558 ms  
Loss rate: 6.54%  
-- Flow 1:  
Average throughput: 60.13 Mbit/s  
95th percentile per-packet one-way delay: 62.692 ms  
Loss rate: 6.43%  
-- Flow 2:  
Average throughput: 28.79 Mbit/s  
95th percentile per-packet one-way delay: 61.677 ms  
Loss rate: 6.52%  
-- Flow 3:  
Average throughput: 14.79 Mbit/s  
95th percentile per-packet one-way delay: 63.441 ms  
Loss rate: 8.00%

Run 10: Report of Vivace-loss — Data Link



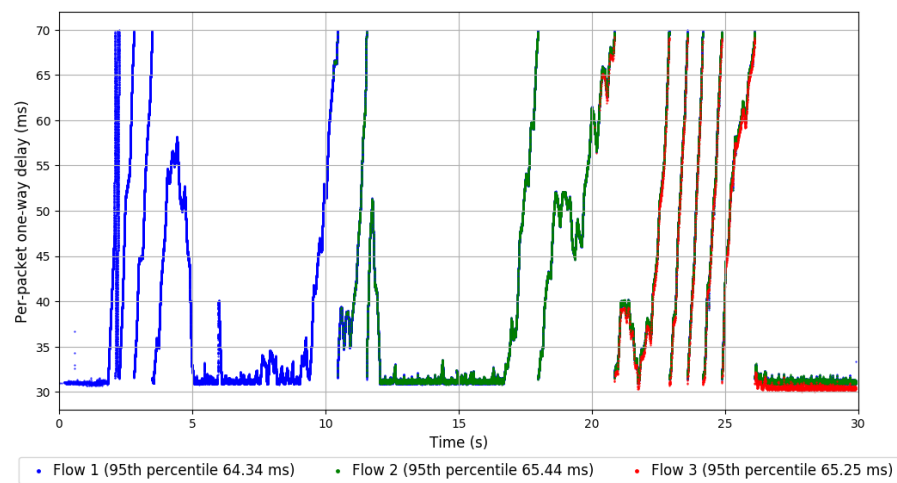
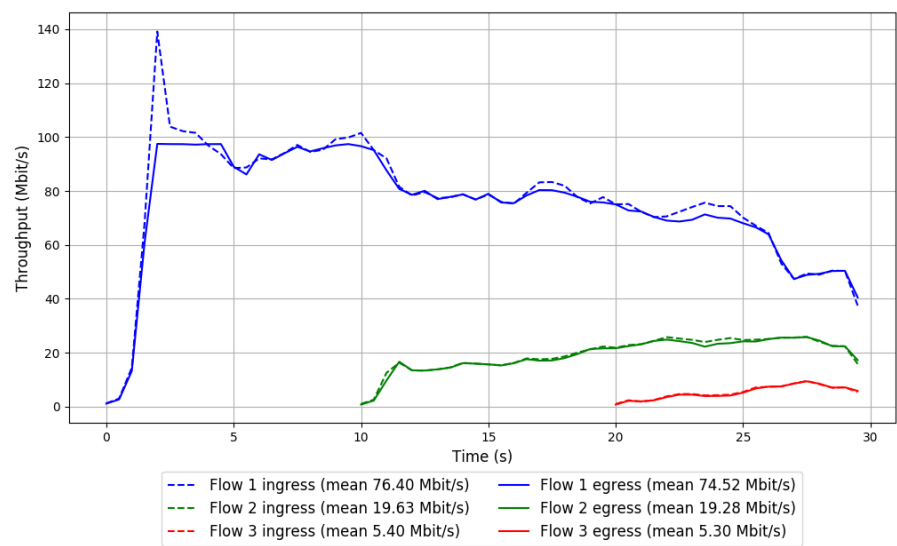
Run 1: Statistics of Vivace-LTE

Start at: 2018-03-21 04:27:17  
End at: 2018-03-21 04:27:47  
Local clock offset: 0.205 ms  
Remote clock offset: -1.406 ms

# Below is generated by plot.py at 2018-03-21 09:39:55  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 89.06 Mbit/s  
95th percentile per-packet one-way delay: 64.633 ms  
Loss rate: 2.37%  
-- Flow 1:  
Average throughput: 74.52 Mbit/s  
95th percentile per-packet one-way delay: 64.343 ms  
Loss rate: 2.46%  
-- Flow 2:  
Average throughput: 19.28 Mbit/s  
95th percentile per-packet one-way delay: 65.441 ms  
Loss rate: 1.88%  
-- Flow 3:  
Average throughput: 5.30 Mbit/s  
95th percentile per-packet one-way delay: 65.248 ms  
Loss rate: 1.97%



Run 1: Report of Vivace-LTE — Data Link

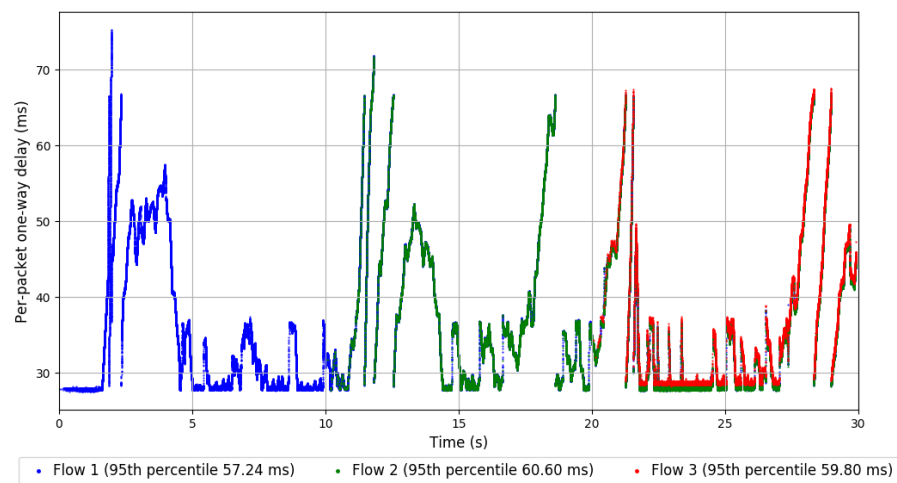
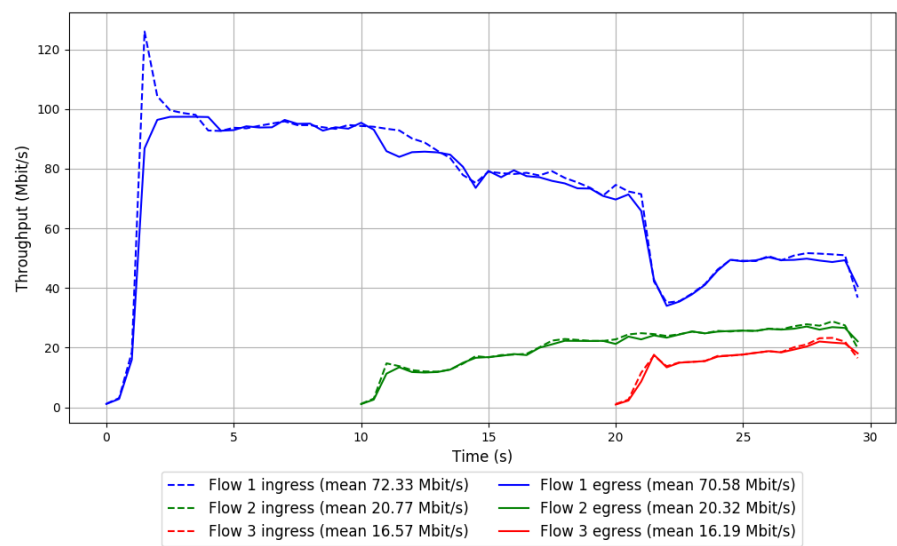


Run 2: Statistics of Vivace-LTE

Start at: 2018-03-21 04:56:06  
End at: 2018-03-21 04:56:36  
Local clock offset: -0.643 ms  
Remote clock offset: -3.124 ms

# Below is generated by plot.py at 2018-03-21 09:39:56  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 89.42 Mbit/s  
95th percentile per-packet one-way delay: 58.002 ms  
Loss rate: 2.32%  
-- Flow 1:  
Average throughput: 70.58 Mbit/s  
95th percentile per-packet one-way delay: 57.241 ms  
Loss rate: 2.37%  
-- Flow 2:  
Average throughput: 20.32 Mbit/s  
95th percentile per-packet one-way delay: 60.602 ms  
Loss rate: 2.12%  
-- Flow 3:  
Average throughput: 16.19 Mbit/s  
95th percentile per-packet one-way delay: 59.796 ms  
Loss rate: 2.17%

Run 2: Report of Vivace-LTE — Data Link

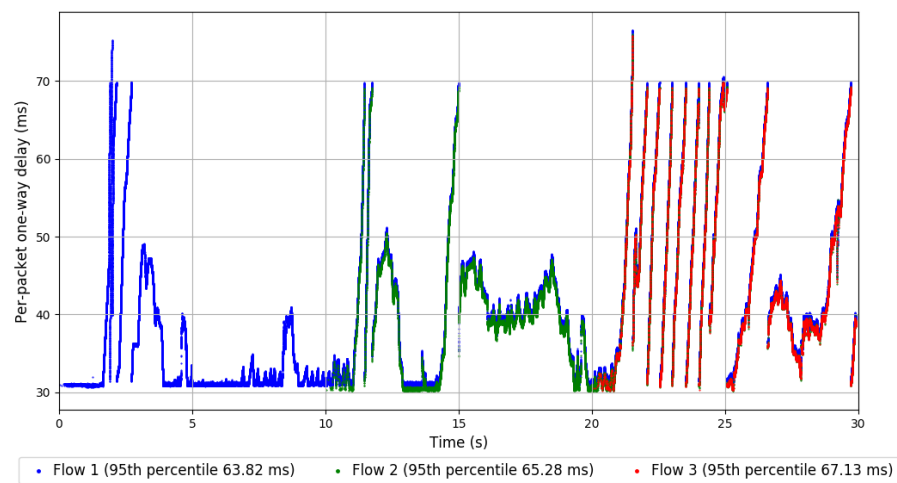
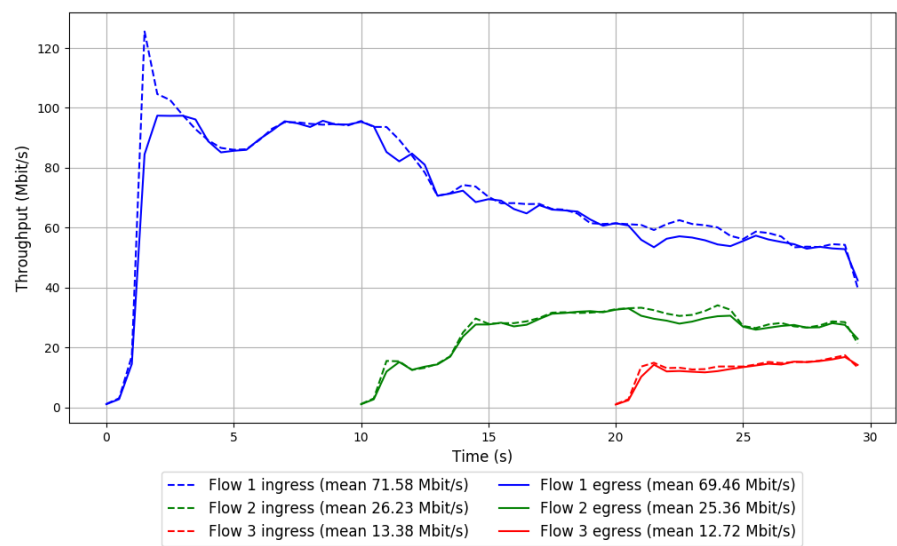


Run 3: Statistics of Vivace-LTE

Start at: 2018-03-21 05:26:43  
End at: 2018-03-21 05:27:13  
Local clock offset: -0.165 ms  
Remote clock offset: -0.192 ms

# Below is generated by plot.py at 2018-03-21 09:40:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 90.51 Mbit/s  
95th percentile per-packet one-way delay: 64.617 ms  
Loss rate: 3.10%  
-- Flow 1:  
Average throughput: 69.46 Mbit/s  
95th percentile per-packet one-way delay: 63.817 ms  
Loss rate: 2.94%  
-- Flow 2:  
Average throughput: 25.36 Mbit/s  
95th percentile per-packet one-way delay: 65.275 ms  
Loss rate: 3.27%  
-- Flow 3:  
Average throughput: 12.72 Mbit/s  
95th percentile per-packet one-way delay: 67.130 ms  
Loss rate: 4.91%

Run 3: Report of Vivace-LTE — Data Link

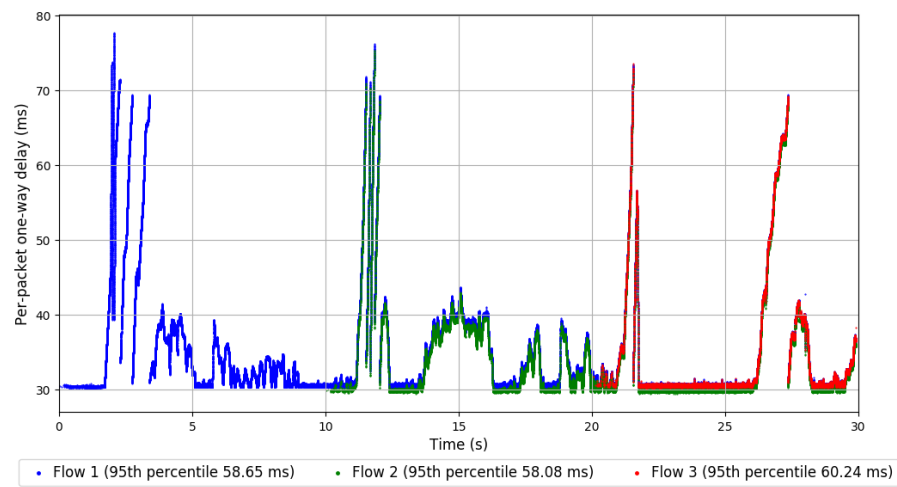
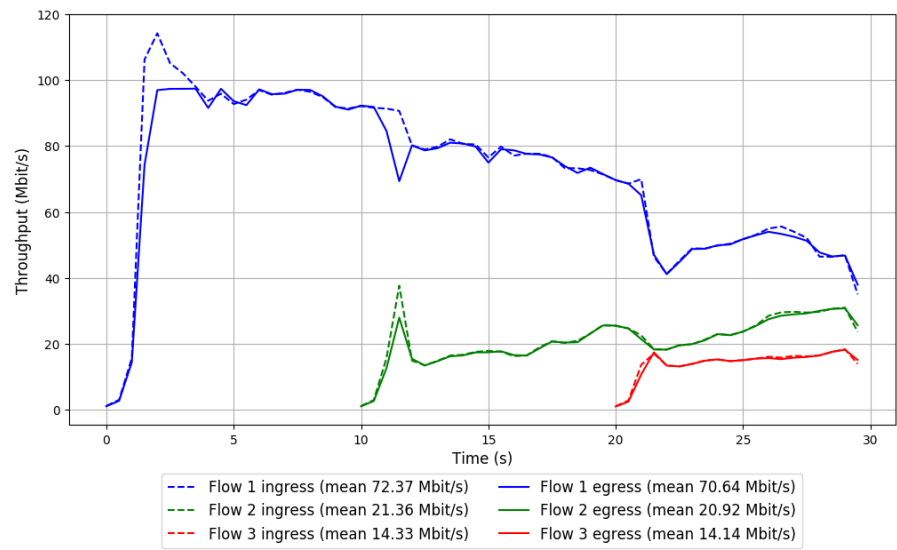


Run 4: Statistics of Vivace-LTE

Start at: 2018-03-21 05:55:51  
End at: 2018-03-21 05:56:21  
Local clock offset: -0.171 ms  
Remote clock offset: -1.069 ms

# Below is generated by plot.py at 2018-03-21 09:40:07  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 89.21 Mbit/s  
95th percentile per-packet one-way delay: 58.653 ms  
Loss rate: 2.26%  
-- Flow 1:  
Average throughput: 70.64 Mbit/s  
95th percentile per-packet one-way delay: 58.653 ms  
Loss rate: 2.37%  
-- Flow 2:  
Average throughput: 20.92 Mbit/s  
95th percentile per-packet one-way delay: 58.084 ms  
Loss rate: 1.99%  
-- Flow 3:  
Average throughput: 14.14 Mbit/s  
95th percentile per-packet one-way delay: 60.238 ms  
Loss rate: 1.31%

Run 4: Report of Vivace-LTE — Data Link



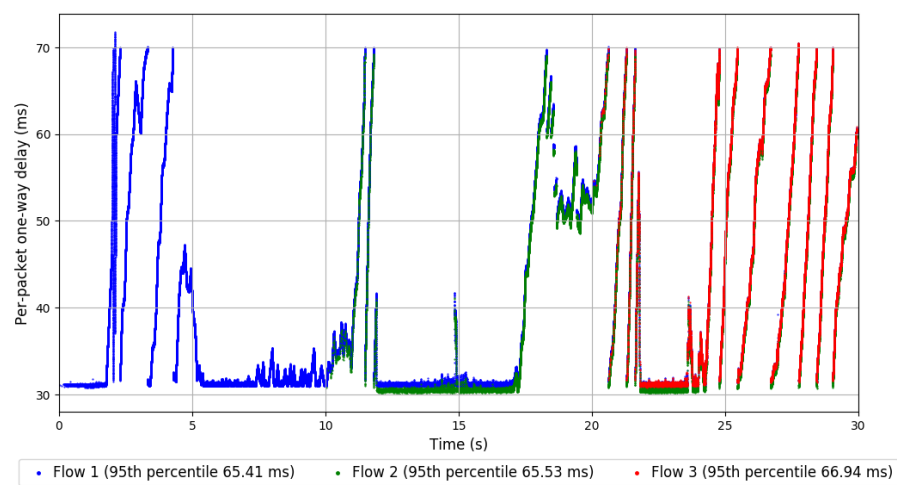
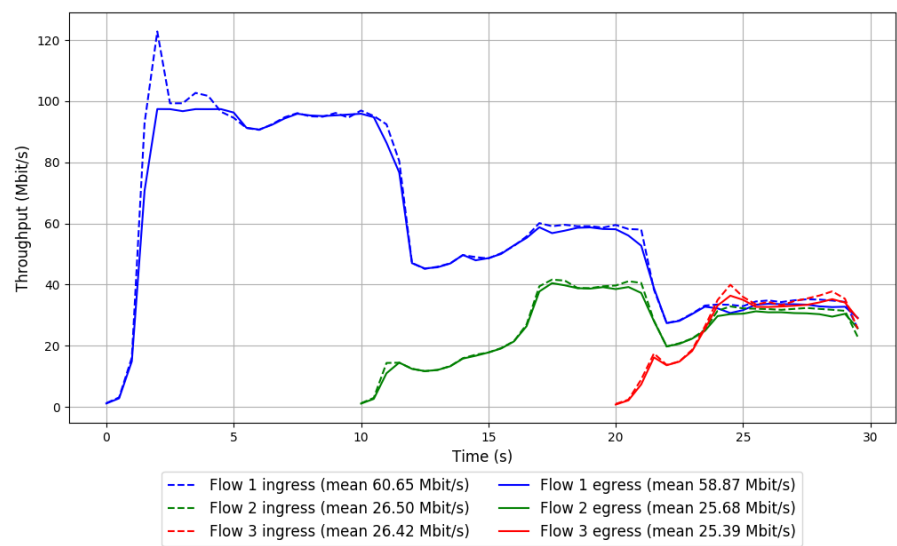
Run 5: Statistics of Vivace-LTE

Start at: 2018-03-21 06:24:36  
End at: 2018-03-21 06:25:06  
Local clock offset: -0.326 ms  
Remote clock offset: -1.798 ms

```
# Below is generated by plot.py at 2018-03-21 09:40:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 84.32 Mbit/s
95th percentile per-packet one-way delay: 65.630 ms
Loss rate: 2.97%
-- Flow 1:
Average throughput: 58.87 Mbit/s
95th percentile per-packet one-way delay: 65.413 ms
Loss rate: 2.84%
-- Flow 2:
Average throughput: 25.68 Mbit/s
95th percentile per-packet one-way delay: 65.532 ms
Loss rate: 2.96%
-- Flow 3:
Average throughput: 25.39 Mbit/s
95th percentile per-packet one-way delay: 66.944 ms
Loss rate: 3.86%
```



Run 5: Report of Vivace-LTE — Data Link

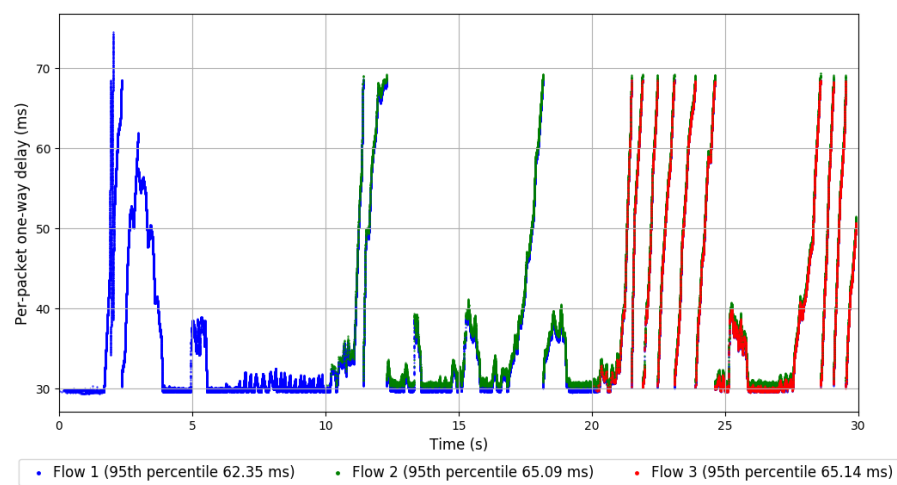
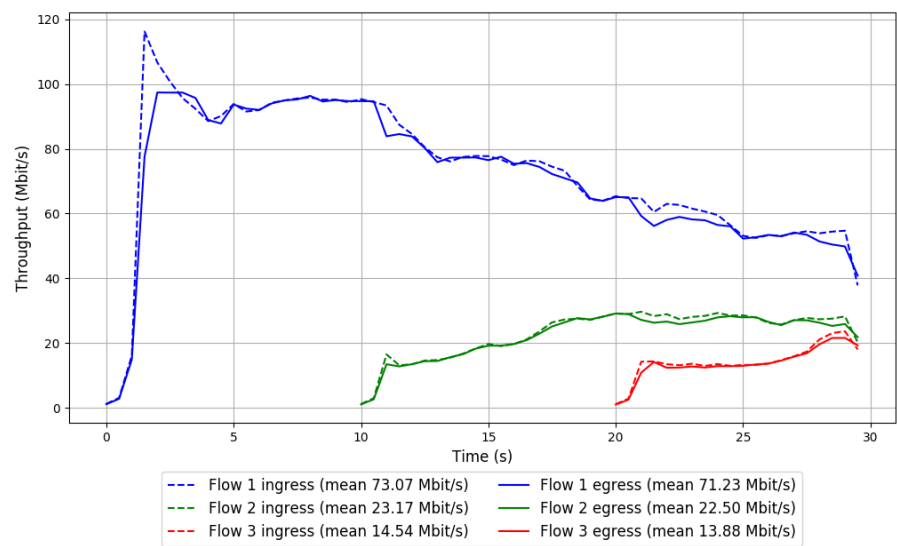


Run 6: Statistics of Vivace-LTE

Start at: 2018-03-21 06:51:48  
End at: 2018-03-21 06:52:18  
Local clock offset: -0.143 ms  
Remote clock offset: -0.998 ms

# Below is generated by plot.py at 2018-03-21 09:40:23  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 90.77 Mbit/s  
95th percentile per-packet one-way delay: 63.184 ms  
Loss rate: 2.62%  
-- Flow 1:  
Average throughput: 71.23 Mbit/s  
95th percentile per-packet one-way delay: 62.346 ms  
Loss rate: 2.46%  
-- Flow 2:  
Average throughput: 22.50 Mbit/s  
95th percentile per-packet one-way delay: 65.091 ms  
Loss rate: 2.82%  
-- Flow 3:  
Average throughput: 13.88 Mbit/s  
95th percentile per-packet one-way delay: 65.140 ms  
Loss rate: 4.40%

Run 6: Report of Vivace-LTE — Data Link



Run 7: Statistics of Vivace-LTE

Start at: 2018-03-21 07:19:30

End at: 2018-03-21 07:20:00

Local clock offset: -0.143 ms

Remote clock offset: -3.82 ms

# Below is generated by plot.py at 2018-03-21 09:40:26

# Datalink statistics

-- Total of 3 flows:

Average throughput: 90.41 Mbit/s

95th percentile per-packet one-way delay: 60.041 ms

Loss rate: 1.93%

-- Flow 1:

Average throughput: 62.77 Mbit/s

95th percentile per-packet one-way delay: 58.368 ms

Loss rate: 1.91%

-- Flow 2:

Average throughput: 33.74 Mbit/s

95th percentile per-packet one-way delay: 62.243 ms

Loss rate: 1.78%

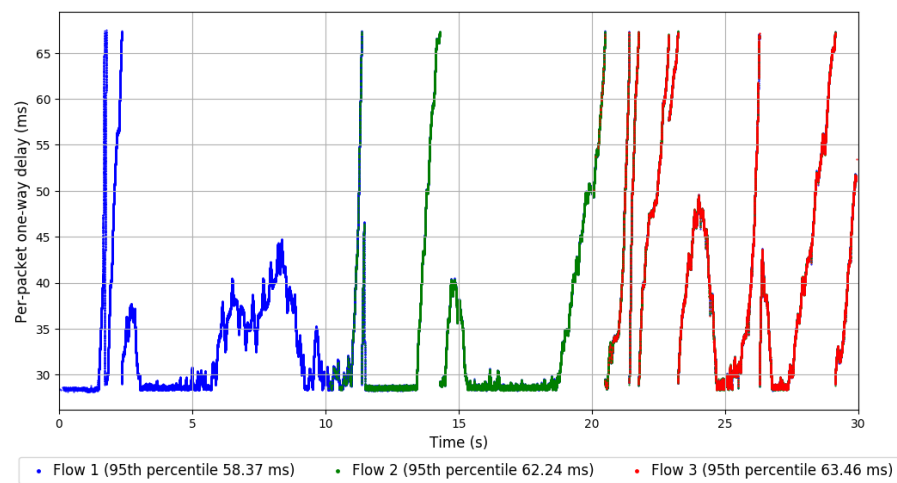
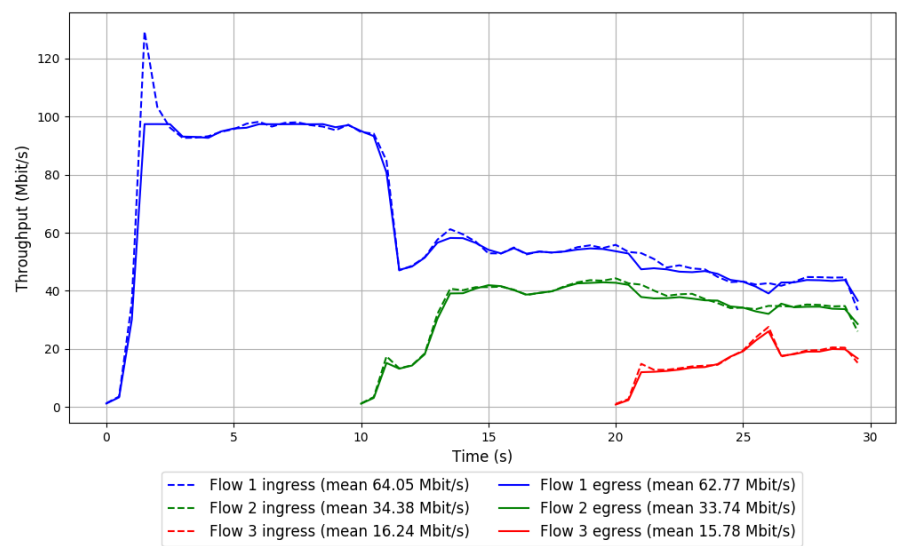
-- Flow 3:

Average throughput: 15.78 Mbit/s

95th percentile per-packet one-way delay: 63.456 ms

Loss rate: 2.76%

Run 7: Report of Vivace-LTE — Data Link

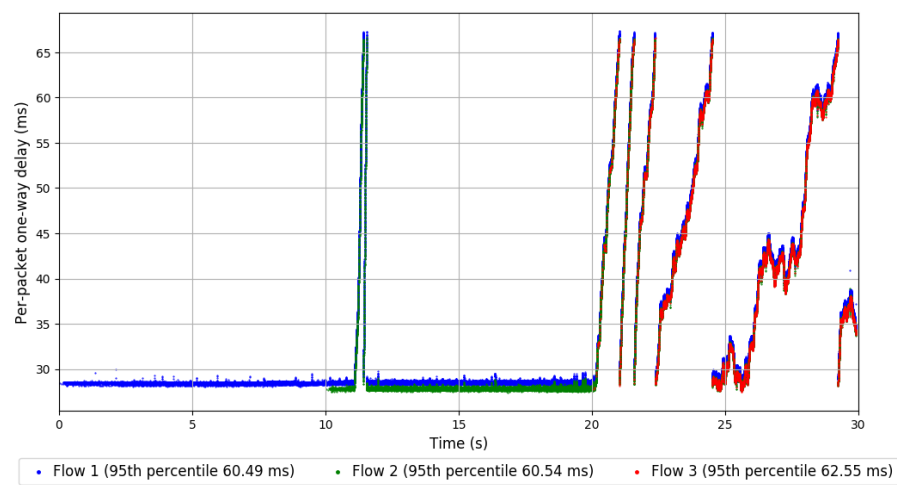
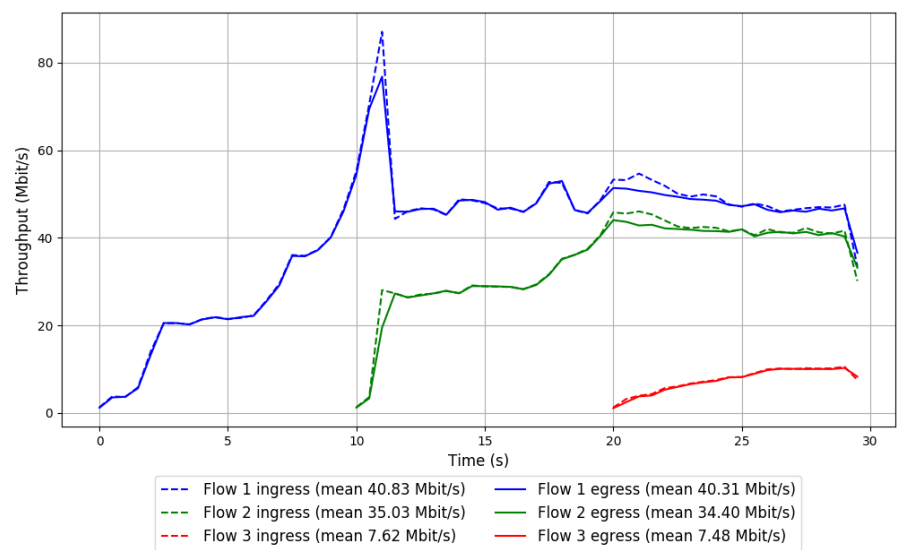


Run 8: Statistics of Vivace-LTE

Start at: 2018-03-21 07:46:36  
End at: 2018-03-21 07:47:06  
Local clock offset: -0.604 ms  
Remote clock offset: -2.716 ms

# Below is generated by plot.py at 2018-03-21 09:40:27  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 65.65 Mbit/s  
95th percentile per-packet one-way delay: 60.553 ms  
Loss rate: 1.45%  
-- Flow 1:  
Average throughput: 40.31 Mbit/s  
95th percentile per-packet one-way delay: 60.486 ms  
Loss rate: 1.25%  
-- Flow 2:  
Average throughput: 34.40 Mbit/s  
95th percentile per-packet one-way delay: 60.537 ms  
Loss rate: 1.76%  
-- Flow 3:  
Average throughput: 7.48 Mbit/s  
95th percentile per-packet one-way delay: 62.545 ms  
Loss rate: 1.77%

Run 8: Report of Vivace-LTE — Data Link



Run 9: Statistics of Vivace-LTE

Start at: 2018-03-21 08:13:15

End at: 2018-03-21 08:13:45

Local clock offset: -0.519 ms

Remote clock offset: 1.496 ms

# Below is generated by plot.py at 2018-03-21 09:40:35

# Datalink statistics

-- Total of 3 flows:

Average throughput: 80.38 Mbit/s

95th percentile per-packet one-way delay: 59.865 ms

Loss rate: 1.53%

-- Flow 1:

Average throughput: 62.71 Mbit/s

95th percentile per-packet one-way delay: 58.293 ms

Loss rate: 1.26%

-- Flow 2:

Average throughput: 20.43 Mbit/s

95th percentile per-packet one-way delay: 62.521 ms

Loss rate: 2.26%

-- Flow 3:

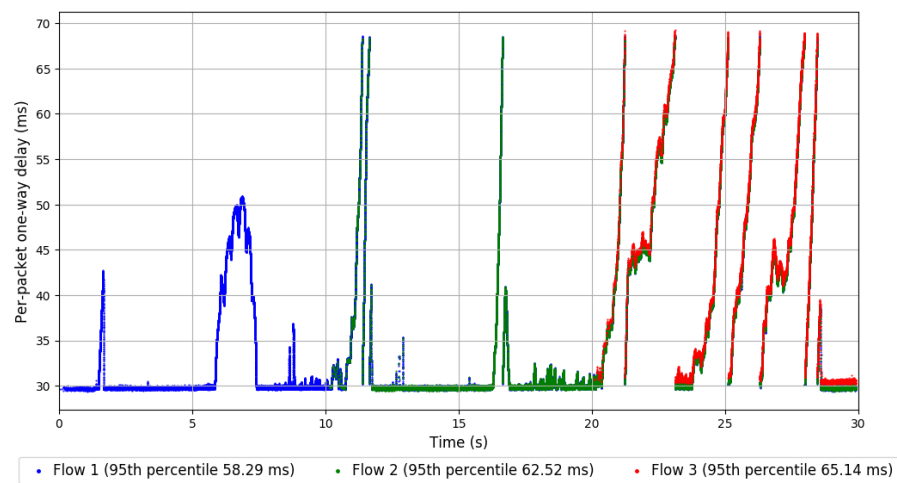
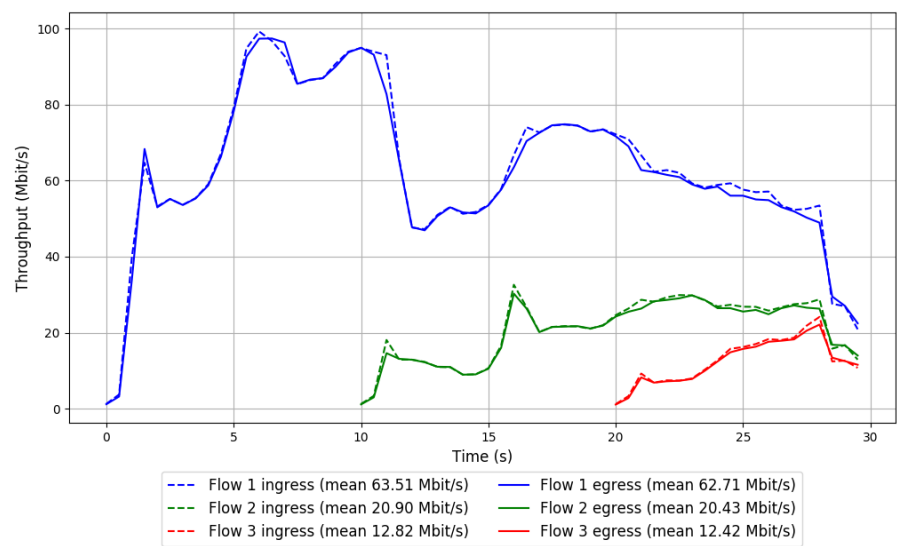
Average throughput: 12.42 Mbit/s

95th percentile per-packet one-way delay: 65.138 ms

Loss rate: 3.09%



Run 9: Report of Vivace-LTE — Data Link



Run 10: Statistics of Vivace-LTE

Start at: 2018-03-21 08:38:56

End at: 2018-03-21 08:39:26

Local clock offset: -0.438 ms

Remote clock offset: -0.66 ms

# Below is generated by plot.py at 2018-03-21 09:40:36

# Datalink statistics

-- Total of 3 flows:

Average throughput: 90.58 Mbit/s

95th percentile per-packet one-way delay: 63.876 ms

Loss rate: 2.06%

-- Flow 1:

Average throughput: 65.38 Mbit/s

95th percentile per-packet one-way delay: 63.012 ms

Loss rate: 2.06%

-- Flow 2:

Average throughput: 29.15 Mbit/s

95th percentile per-packet one-way delay: 65.430 ms

Loss rate: 1.92%

-- Flow 3:

Average throughput: 17.67 Mbit/s

95th percentile per-packet one-way delay: 66.493 ms

Loss rate: 2.45%

Run 10: Report of Vivace-LTE — Data Link

