

## Pantheon Report

Generated at 2018-02-03 07:30:00 (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).

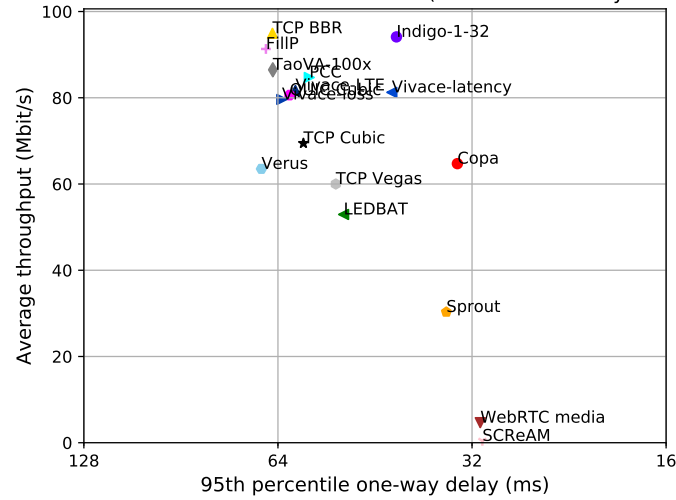
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo\_fast**).

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

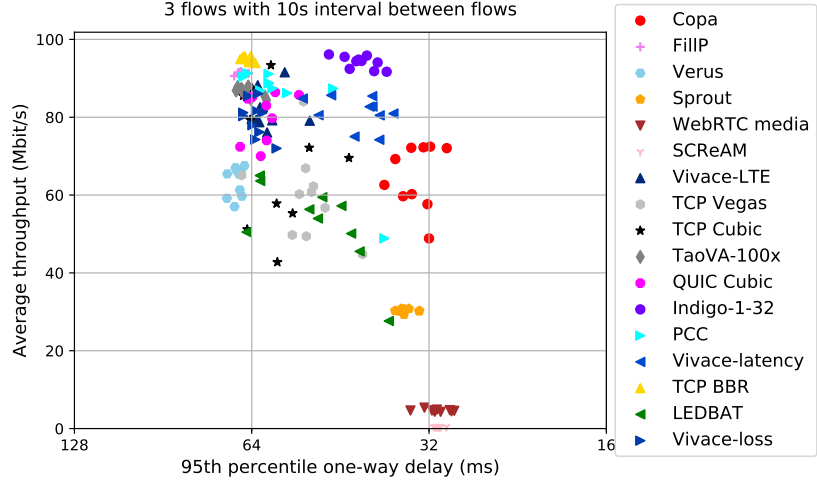
Git summary:

```
branch: master @ 70217998b3c9a7166a95460a70c0854d1326e100
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ fb9c9ab842e5614ad52911a76fb9bd1c1b0dca86
third_party/genericCC @ 80b516c448f795fd6e9675f7177b69c622f07da8
third_party/indigo @ a9b2060d39e4da2e8987e893e3eca2a6c7cd0ab9
third_party/indigo-1-layer-128-unit @ 3ae9e4ef4230db7484501f82ce8b377695f2f66d
third_party/indigo-1-layer-32-unit @ 2601c92e4aa9d58d38dc4dfe0ecd9c077e64d
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     | 60.60                  | 36.17  | 30.97  | 63.90                     | 66.37  | 66.82  | 4.55               | 7.15   | 8.02   |
| TCP Cubic      | 10     | 33.15                  | 34.97  | 39.22  | 55.23                     | 55.50  | 51.62  | 0.64               | 0.78   | 0.50   |
| LEDBAT         | 10     | 31.67                  | 23.94  | 16.11  | 48.86                     | 50.88  | 51.71  | 0.22               | 0.26   | 0.27   |
| PCC            | 10     | 73.79                  | 12.63  | 7.63   | 56.89                     | 58.83  | 57.34  | 2.45               | 2.63   | 3.18   |
| QUIC Cubic     | 10     | 49.40                  | 29.66  | 35.03  | 60.17                     | 60.70  | 56.62  | 1.20               | 0.98   | 1.16   |
| SCReAM         | 10     | 0.21                   | 0.22   | 0.22   | 30.53                     | 30.62  | 30.95  | 0.08               | 0.07   | 0.09   |
| WebRTC media   | 10     | 2.48                   | 1.55   | 0.64   | 30.81                     | 31.18  | 31.05  | 0.14               | 0.15   | 0.12   |
| Sprout         | 10     | 15.35                  | 15.19  | 14.75  | 34.87                     | 34.99  | 35.58  | 0.23               | 0.19   | 0.22   |
| TaoVA-100x     | 10     | 52.76                  | 38.74  | 25.33  | 63.32                     | 65.81  | 66.49  | 14.84              | 25.67  | 18.66  |
| TCP Vegas      | 10     | 32.47                  | 25.71  | 31.40  | 48.61                     | 44.31  | 42.18  | 1.08               | 0.88   | 1.08   |
| Verus          | 10     | 42.23                  | 24.27  | 19.33  | 68.03                     | 67.38  | 66.05  | 46.50              | 40.59  | 30.99  |
| Copa           | 10     | 33.92                  | 33.22  | 26.16  | 32.86                     | 34.08  | 35.34  | 0.22               | 0.22   | 0.31   |
| FillP          | 10     | 55.20                  | 35.25  | 38.27  | 65.27                     | 67.98  | 68.06  | 14.97              | 25.68  | 28.70  |
| Indigo-1-32    | 10     | 61.91                  | 32.02  | 33.61  | 40.27                     | 43.32  | 48.08  | 0.29               | 0.34   | 0.32   |
| Vivace-latency | 10     | 61.21                  | 22.76  | 14.88  | 42.15                     | 42.45  | 44.11  | 0.28               | 0.30   | 0.24   |
| Vivace-loss    | 10     | 51.58                  | 33.66  | 17.30  | 62.68                     | 63.65  | 63.37  | 5.38               | 5.94   | 5.96   |
| Vivace-LTE     | 10     | 58.80                  | 23.11  | 22.89  | 58.77                     | 61.66  | 61.64  | 1.90               | 2.00   | 2.35   |

Run 1: Statistics of TCP BBR

Start at: 2018-02-03 02:36:11

End at: 2018-02-03 02:36:41

Local clock offset: 1.12 ms

Remote clock offset: 0.946 ms

# Below is generated by plot.py at 2018-02-03 07:05:33

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.48 Mbit/s

95th percentile per-packet one-way delay: 65.958 ms

Loss rate: 5.93%

-- Flow 1:

Average throughput: 59.85 Mbit/s

95th percentile per-packet one-way delay: 65.042 ms

Loss rate: 4.73%

-- Flow 2:

Average throughput: 39.57 Mbit/s

95th percentile per-packet one-way delay: 66.821 ms

Loss rate: 7.54%

-- Flow 3:

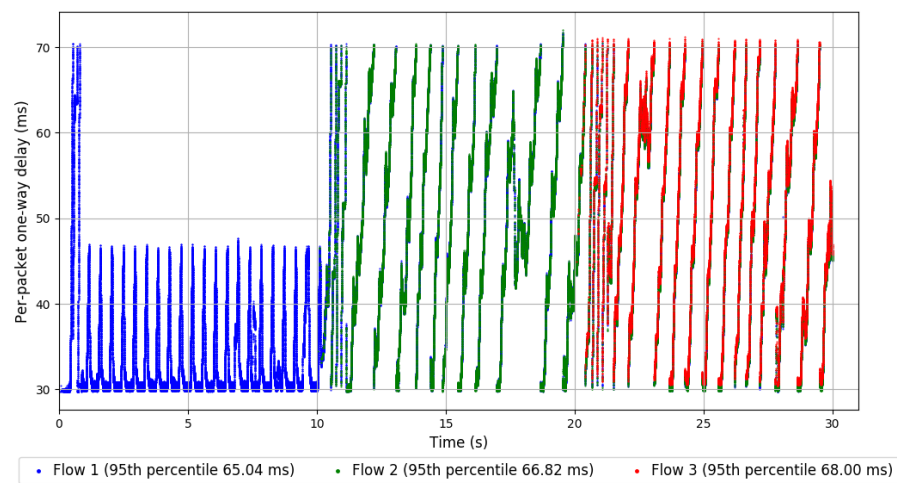
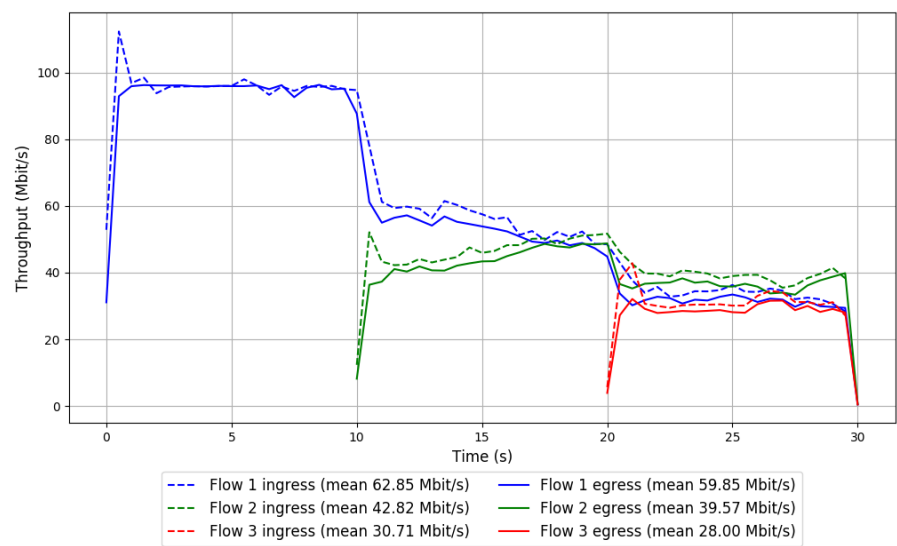
Average throughput: 28.00 Mbit/s

95th percentile per-packet one-way delay: 68.004 ms

Loss rate: 8.84%



Run 1: Report of TCP BBR — Data Link

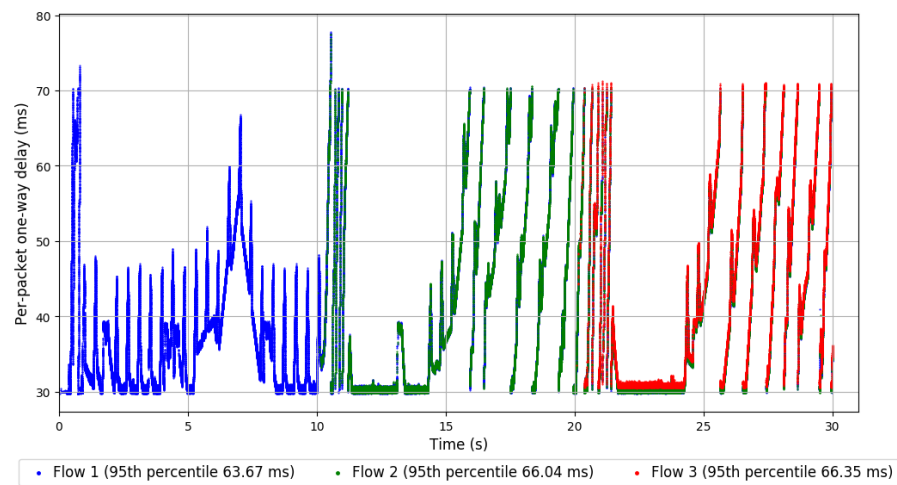
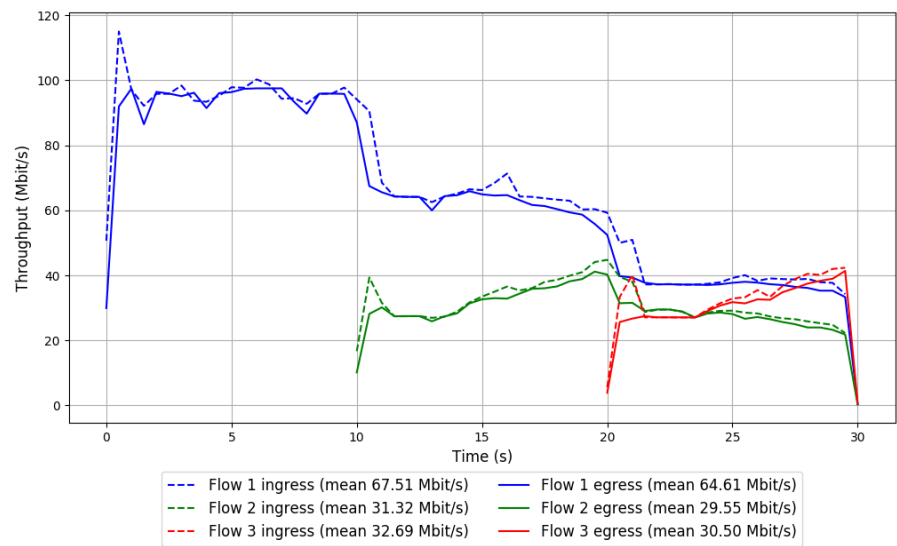


Run 2: Statistics of TCP BBR

Start at: 2018-02-03 03:01:22  
End at: 2018-02-03 03:01:52  
Local clock offset: 1.244 ms  
Remote clock offset: -0.241 ms

# Below is generated by plot.py at 2018-02-03 07:05:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.40 Mbit/s  
95th percentile per-packet one-way delay: 64.609 ms  
Loss rate: 4.85%  
-- Flow 1:  
Average throughput: 64.61 Mbit/s  
95th percentile per-packet one-way delay: 63.670 ms  
Loss rate: 4.29%  
-- Flow 2:  
Average throughput: 29.55 Mbit/s  
95th percentile per-packet one-way delay: 66.039 ms  
Loss rate: 5.70%  
-- Flow 3:  
Average throughput: 30.50 Mbit/s  
95th percentile per-packet one-way delay: 66.353 ms  
Loss rate: 6.66%

Run 2: Report of TCP BBR — Data Link

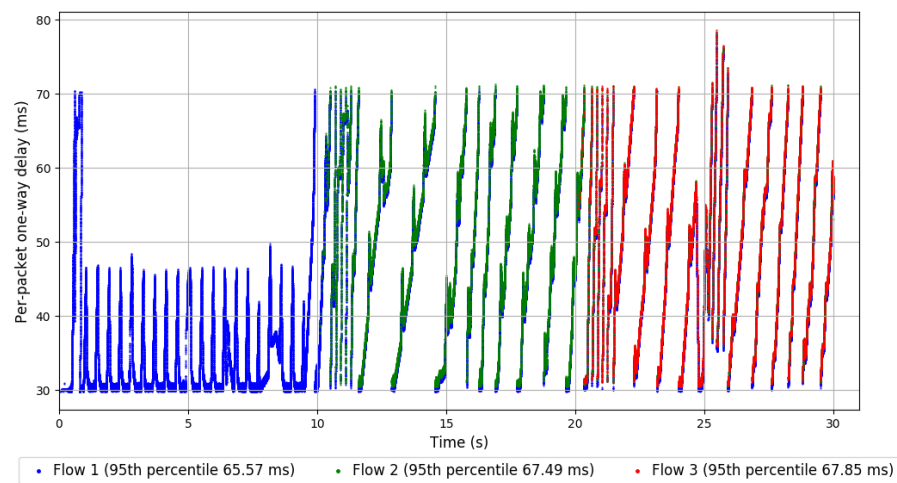
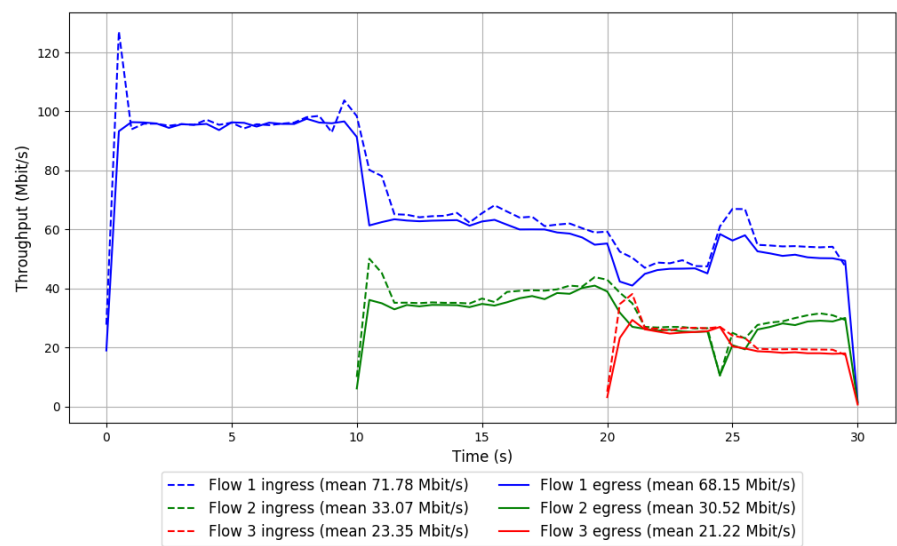


Run 3: Statistics of TCP BBR

Start at: 2018-02-03 03:28:01  
End at: 2018-02-03 03:28:31  
Local clock offset: 1.313 ms  
Remote clock offset: -1.841 ms

# Below is generated by plot.py at 2018-02-03 07:05:34  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.52 Mbit/s  
95th percentile per-packet one-way delay: 66.246 ms  
Loss rate: 5.87%  
-- Flow 1:  
Average throughput: 68.15 Mbit/s  
95th percentile per-packet one-way delay: 65.572 ms  
Loss rate: 4.97%  
-- Flow 2:  
Average throughput: 30.52 Mbit/s  
95th percentile per-packet one-way delay: 67.486 ms  
Loss rate: 7.64%  
-- Flow 3:  
Average throughput: 21.22 Mbit/s  
95th percentile per-packet one-way delay: 67.854 ms  
Loss rate: 9.11%

Run 3: Report of TCP BBR — Data Link

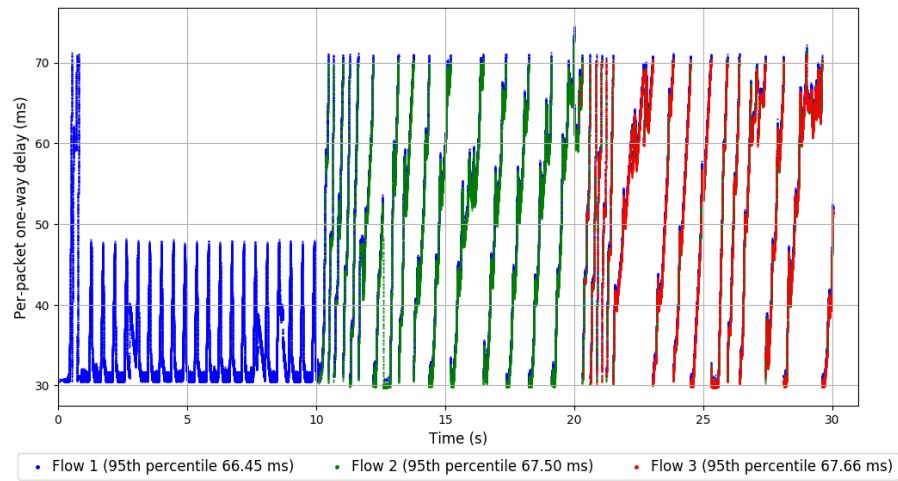
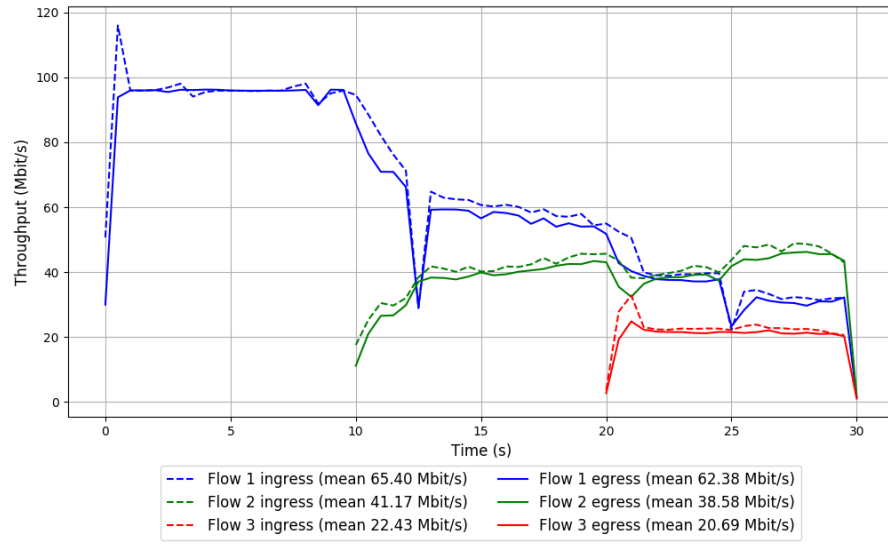


Run 4: Statistics of TCP BBR

Start at: 2018-02-03 03:53:32  
End at: 2018-02-03 03:54:02  
Local clock offset: 1.278 ms  
Remote clock offset: -1.437 ms

# Below is generated by plot.py at 2018-02-03 07:05:34  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.94 Mbit/s  
95th percentile per-packet one-way delay: 66.930 ms  
Loss rate: 5.25%  
-- Flow 1:  
Average throughput: 62.38 Mbit/s  
95th percentile per-packet one-way delay: 66.448 ms  
Loss rate: 4.55%  
-- Flow 2:  
Average throughput: 38.58 Mbit/s  
95th percentile per-packet one-way delay: 67.501 ms  
Loss rate: 6.20%  
-- Flow 3:  
Average throughput: 20.69 Mbit/s  
95th percentile per-packet one-way delay: 67.658 ms  
Loss rate: 7.85%

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



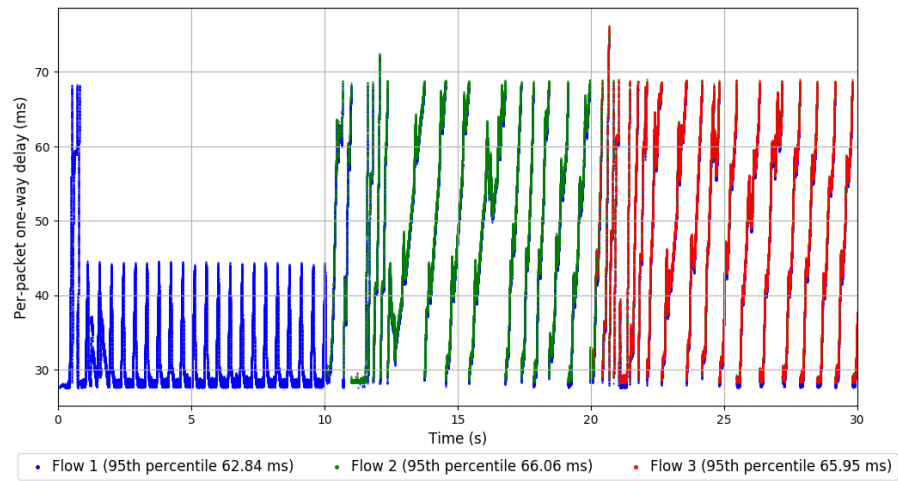
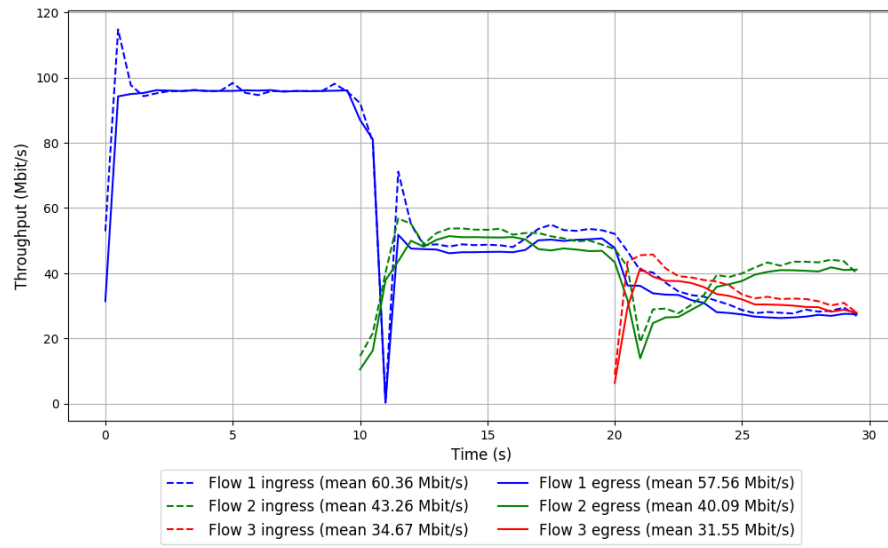
Run 5: Statistics of TCP BBR

Start at: 2018-02-03 04:18:31  
End at: 2018-02-03 04:19:01  
Local clock offset: 1.409 ms  
Remote clock offset: -2.452 ms

# Below is generated by plot.py at 2018-02-03 07:05:34  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.73 Mbit/s  
95th percentile per-packet one-way delay: 64.569 ms  
Loss rate: 5.88%  
-- Flow 1:  
Average throughput: 57.56 Mbit/s  
95th percentile per-packet one-way delay: 62.838 ms  
Loss rate: 4.62%  
-- Flow 2:  
Average throughput: 40.09 Mbit/s  
95th percentile per-packet one-way delay: 66.062 ms  
Loss rate: 7.30%  
-- Flow 3:  
Average throughput: 31.55 Mbit/s  
95th percentile per-packet one-way delay: 65.947 ms  
Loss rate: 8.93%



# Run 5: Report of TCP BBR — Data Link

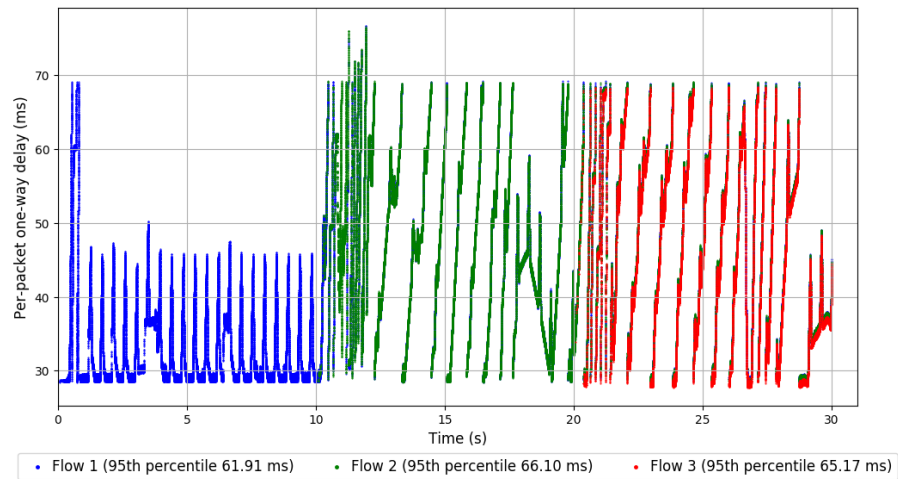
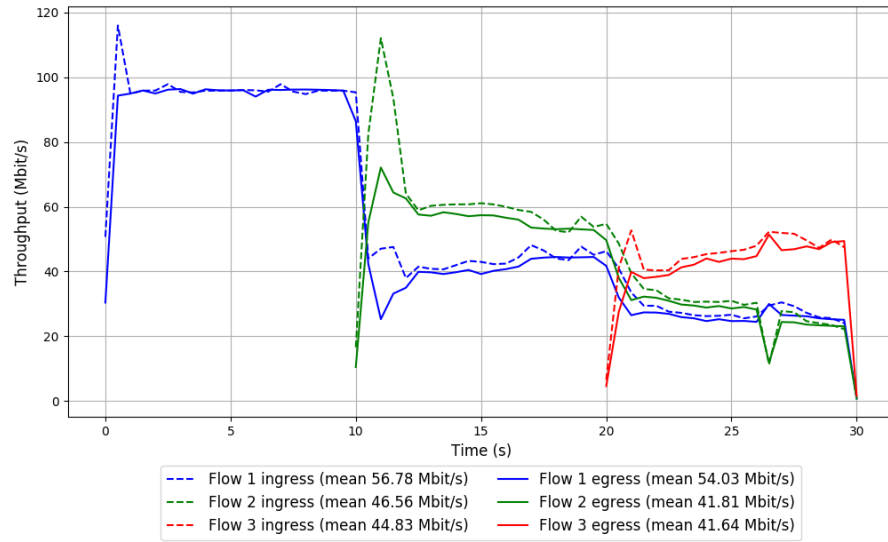


Run 6: Statistics of TCP BBR

Start at: 2018-02-03 04:44:19  
End at: 2018-02-03 04:44:49  
Local clock offset: 1.278 ms  
Remote clock offset: -1.018 ms

# Below is generated by plot.py at 2018-02-03 07:05:35  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.72 Mbit/s  
95th percentile per-packet one-way delay: 64.248 ms  
Loss rate: 6.72%  
-- Flow 1:  
Average throughput: 54.03 Mbit/s  
95th percentile per-packet one-way delay: 61.905 ms  
Loss rate: 4.80%  
-- Flow 2:  
Average throughput: 41.81 Mbit/s  
95th percentile per-packet one-way delay: 66.103 ms  
Loss rate: 10.12%  
-- Flow 3:  
Average throughput: 41.64 Mbit/s  
95th percentile per-packet one-way delay: 65.167 ms  
Loss rate: 7.00%

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

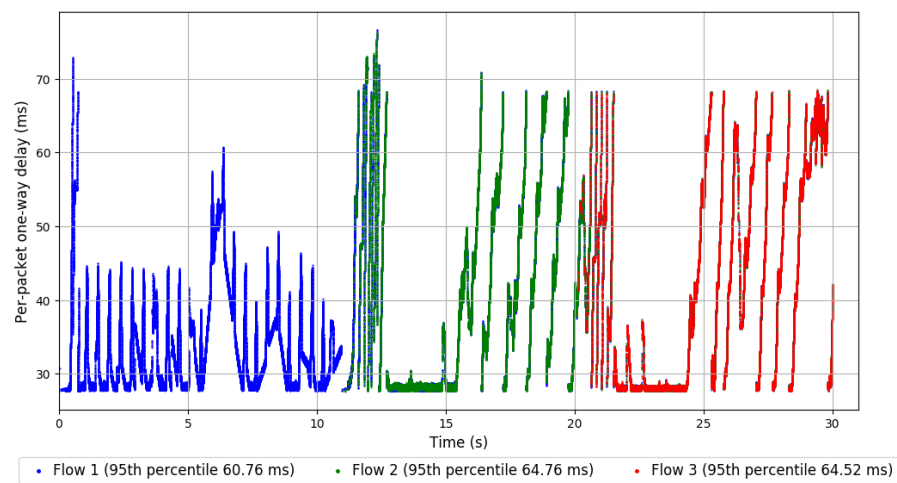
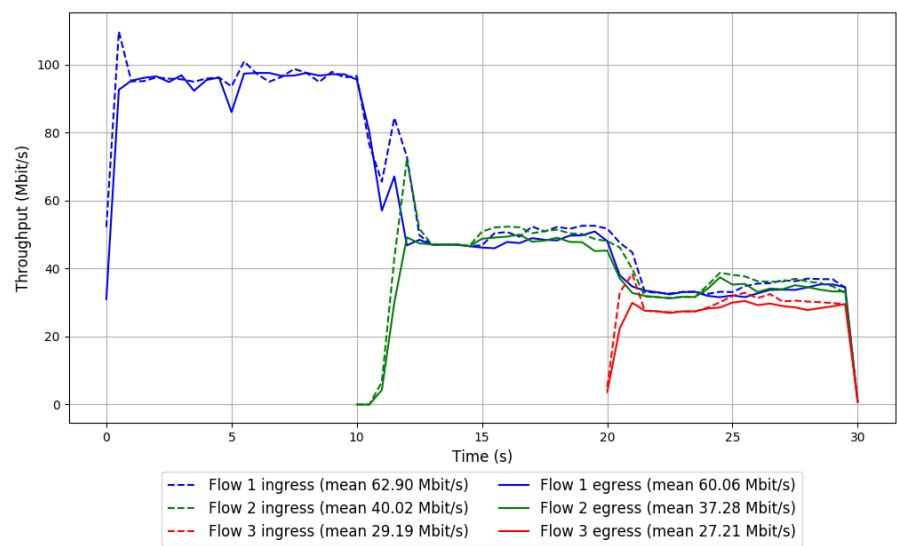


Run 7: Statistics of TCP BBR

Start at: 2018-02-03 05:10:24  
End at: 2018-02-03 05:10:54  
Local clock offset: 1.117 ms  
Remote clock offset: -0.394 ms

# Below is generated by plot.py at 2018-02-03 07:05:35  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.94 Mbit/s  
95th percentile per-packet one-way delay: 63.109 ms  
Loss rate: 5.32%  
-- Flow 1:  
Average throughput: 60.06 Mbit/s  
95th percentile per-packet one-way delay: 60.757 ms  
Loss rate: 4.48%  
-- Flow 2:  
Average throughput: 37.28 Mbit/s  
95th percentile per-packet one-way delay: 64.763 ms  
Loss rate: 6.78%  
-- Flow 3:  
Average throughput: 27.21 Mbit/s  
95th percentile per-packet one-way delay: 64.517 ms  
Loss rate: 6.75%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-02-03 05:37:43

End at: 2018-02-03 05:38:13

Local clock offset: 0.947 ms

Remote clock offset: 0.772 ms

# Below is generated by plot.py at 2018-02-03 07:05:35

# Datalink statistics

-- Total of 3 flows:

Average throughput: 94.13 Mbit/s

95th percentile per-packet one-way delay: 64.626 ms

Loss rate: 5.30%

-- Flow 1:

Average throughput: 63.76 Mbit/s

95th percentile per-packet one-way delay: 63.952 ms

Loss rate: 4.49%

-- Flow 2:

Average throughput: 27.96 Mbit/s

95th percentile per-packet one-way delay: 65.184 ms

Loss rate: 6.43%

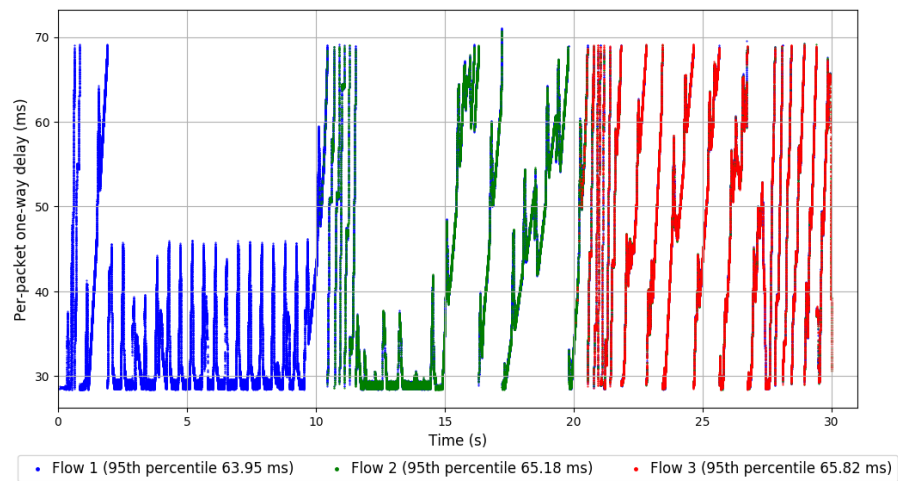
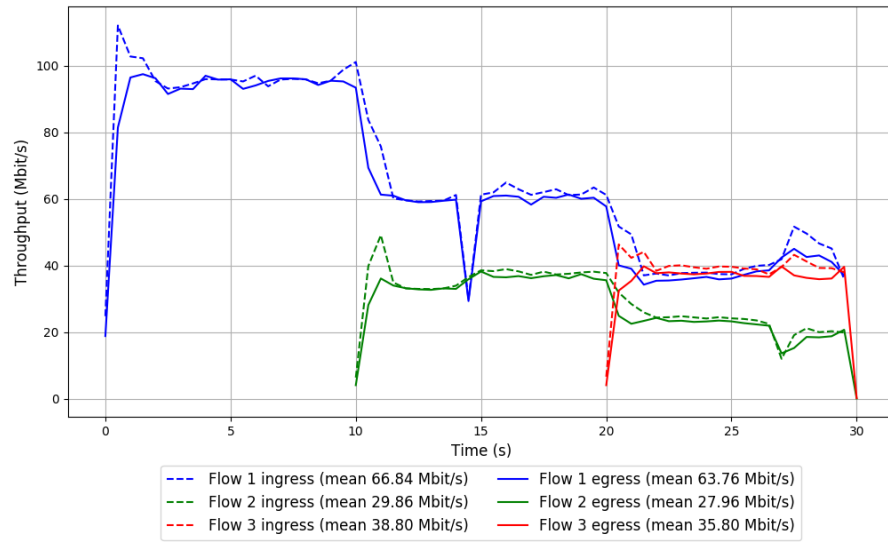
-- Flow 3:

Average throughput: 35.80 Mbit/s

95th percentile per-packet one-way delay: 65.819 ms

Loss rate: 7.77%

# Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-02-03 06:04:05

End at: 2018-02-03 06:04:35

Local clock offset: 1.001 ms

Remote clock offset: 2.322 ms

# Below is generated by plot.py at 2018-02-03 07:06:52

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.03 Mbit/s

95th percentile per-packet one-way delay: 66.594 ms

Loss rate: 5.05%

-- Flow 1:

Average throughput: 64.99 Mbit/s

95th percentile per-packet one-way delay: 65.470 ms

Loss rate: 4.28%

-- Flow 2:

Average throughput: 27.62 Mbit/s

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

Loss rate: 5.60%

-- Flow 3:

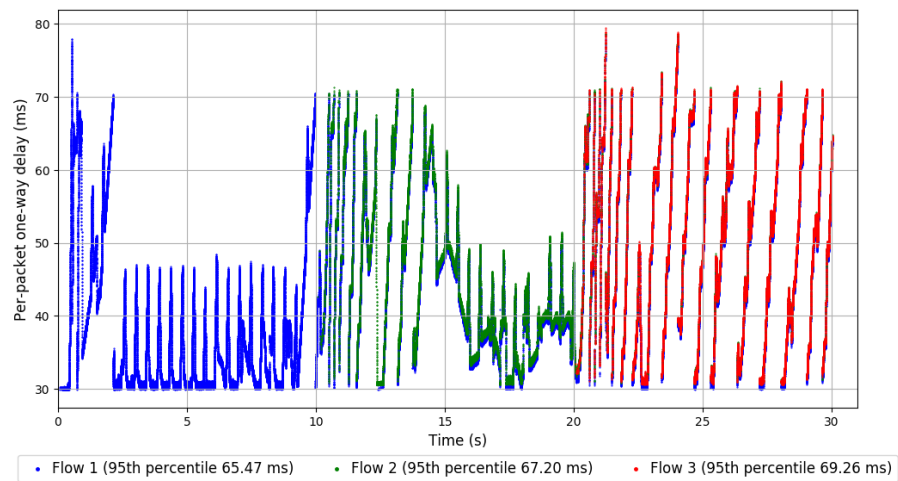
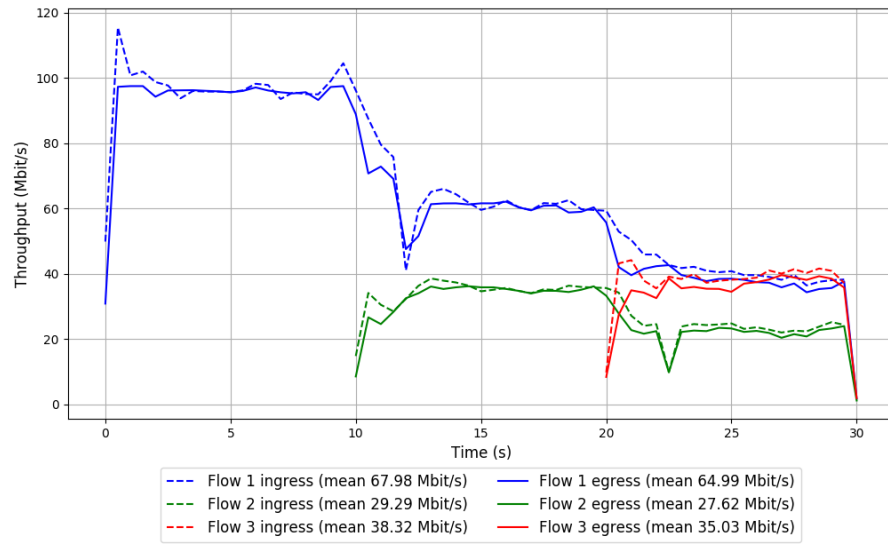
Average throughput: 35.03 Mbit/s

95th percentile per-packet one-way delay: 69.260 ms

Loss rate: 8.30%



# Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-02-03 06:29:47

End at: 2018-02-03 06:30:17

Local clock offset: 0.879 ms

Remote clock offset: 0.817 ms

# Below is generated by plot.py at 2018-02-03 07:06:54

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.70 Mbit/s

95th percentile per-packet one-way delay: 65.774 ms

Loss rate: 6.28%

-- Flow 1:

Average throughput: 50.61 Mbit/s

95th percentile per-packet one-way delay: 63.301 ms

Loss rate: 4.29%

-- Flow 2:

Average throughput: 48.72 Mbit/s

95th percentile per-packet one-way delay: 66.538 ms

Loss rate: 8.21%

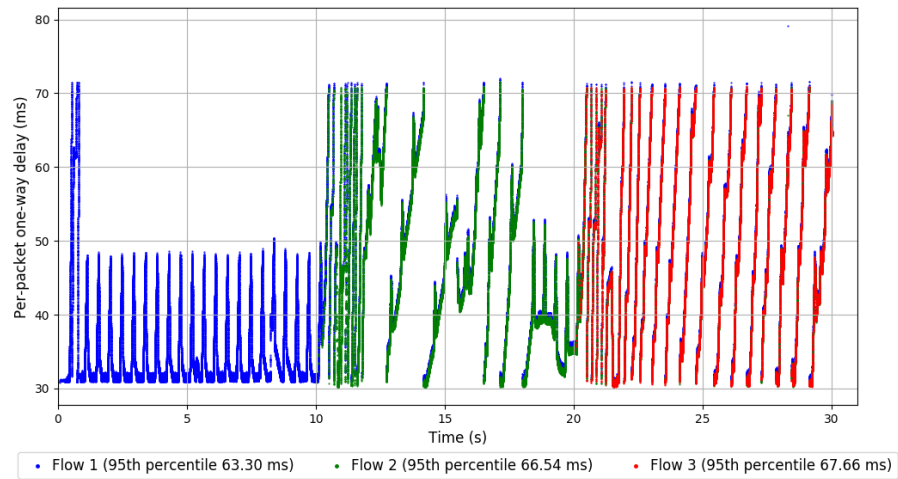
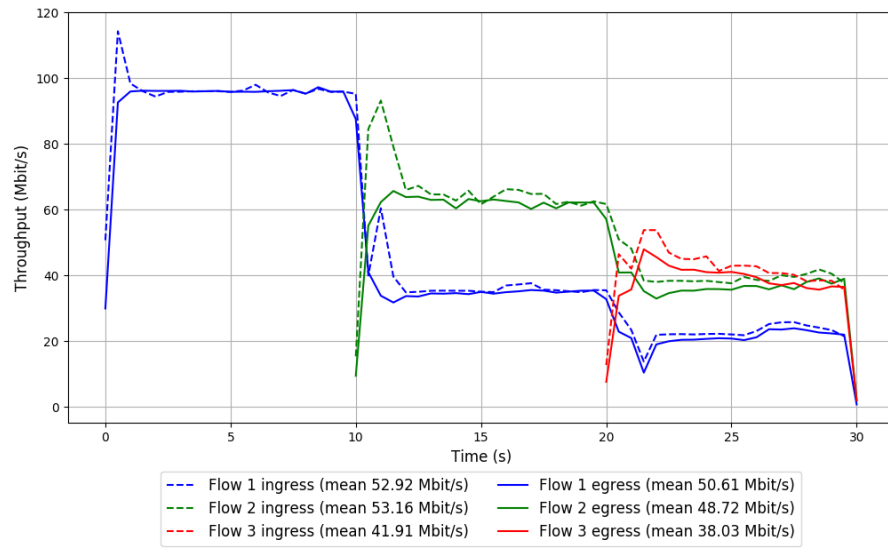
-- Flow 3:

Average throughput: 38.03 Mbit/s

95th percentile per-packet one-way delay: 67.656 ms

Loss rate: 8.97%

# Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-02-03 02:23:40

End at: 2018-02-03 02:24:10

Local clock offset: 1.077 ms

Remote clock offset: 1.304 ms

# Below is generated by plot.py at 2018-02-03 07:06:54

# Datalink statistics

-- Total of 3 flows:

Average throughput: 42.77 Mbit/s

95th percentile per-packet one-way delay: 57.901 ms

Loss rate: 0.81%

-- Flow 1:

Average throughput: 15.64 Mbit/s

95th percentile per-packet one-way delay: 52.246 ms

Loss rate: 0.71%

-- Flow 2:

Average throughput: 21.89 Mbit/s

95th percentile per-packet one-way delay: 57.869 ms

Loss rate: 1.37%

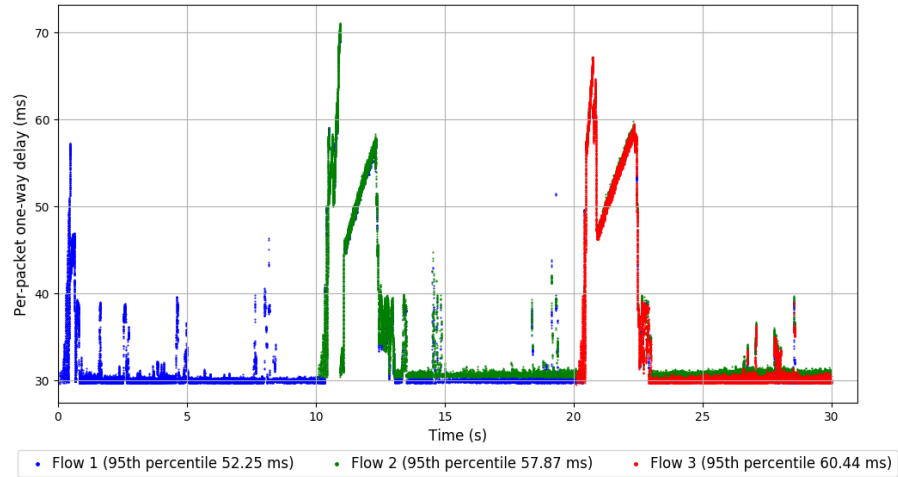
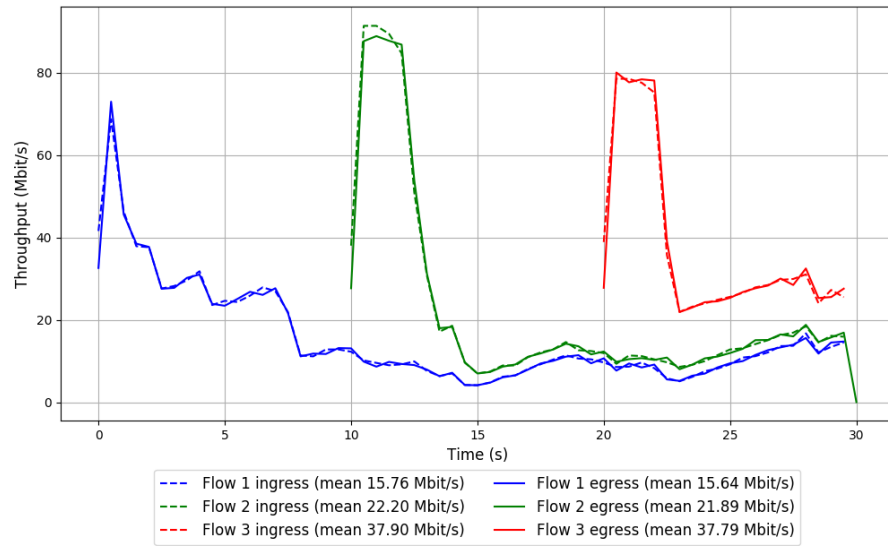
-- Flow 3:

Average throughput: 37.79 Mbit/s

95th percentile per-packet one-way delay: 60.439 ms

Loss rate: 0.29%

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



Run 2: Statistics of TCP Cubic

Start at: 2018-02-03 02:48:50

End at: 2018-02-03 02:49:20

Local clock offset: 1.088 ms

Remote clock offset: 0.531 ms

# Below is generated by plot.py at 2018-02-03 07:06:54

# Datalink statistics

-- Total of 3 flows:

Average throughput: 72.16 Mbit/s

95th percentile per-packet one-way delay: 51.116 ms

Loss rate: 0.69%

-- Flow 1:

Average throughput: 37.43 Mbit/s

95th percentile per-packet one-way delay: 45.263 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 21.25 Mbit/s

95th percentile per-packet one-way delay: 46.542 ms

Loss rate: 1.49%

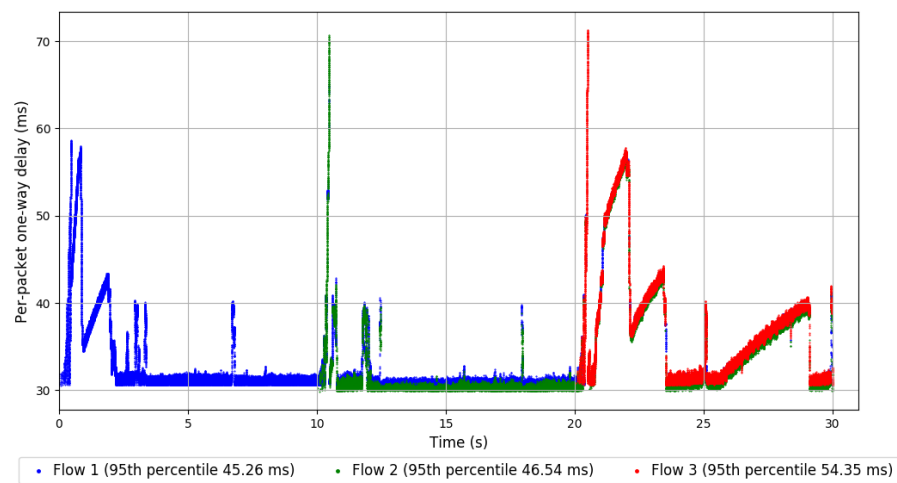
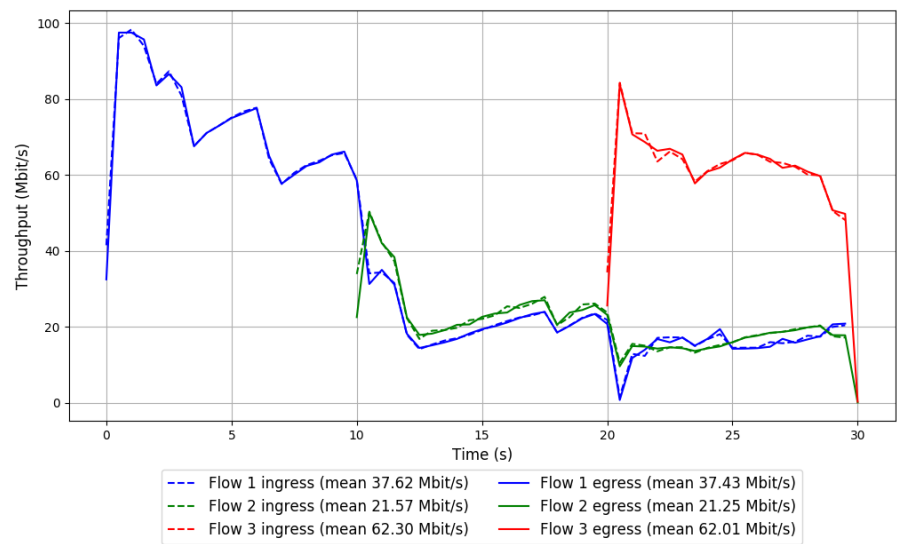
-- Flow 3:

Average throughput: 62.01 Mbit/s

95th percentile per-packet one-way delay: 54.348 ms

Loss rate: 0.46%

Run 2: Report of TCP Cubic — Data Link



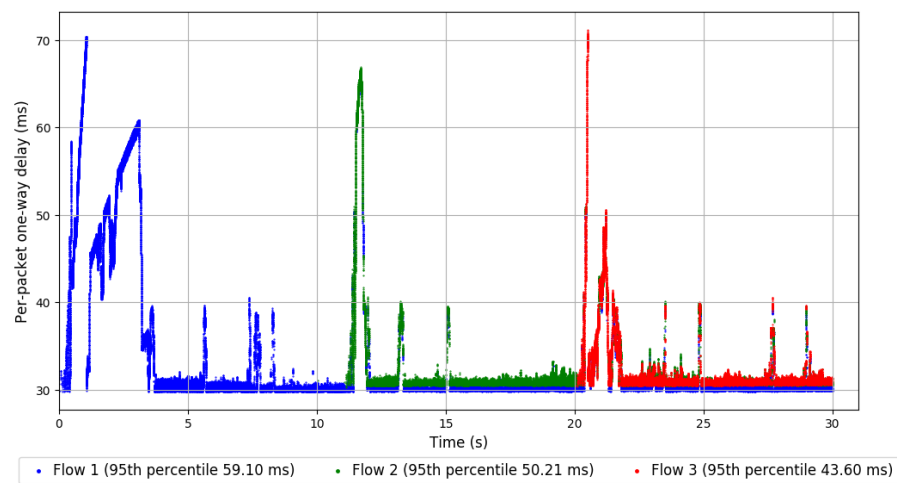
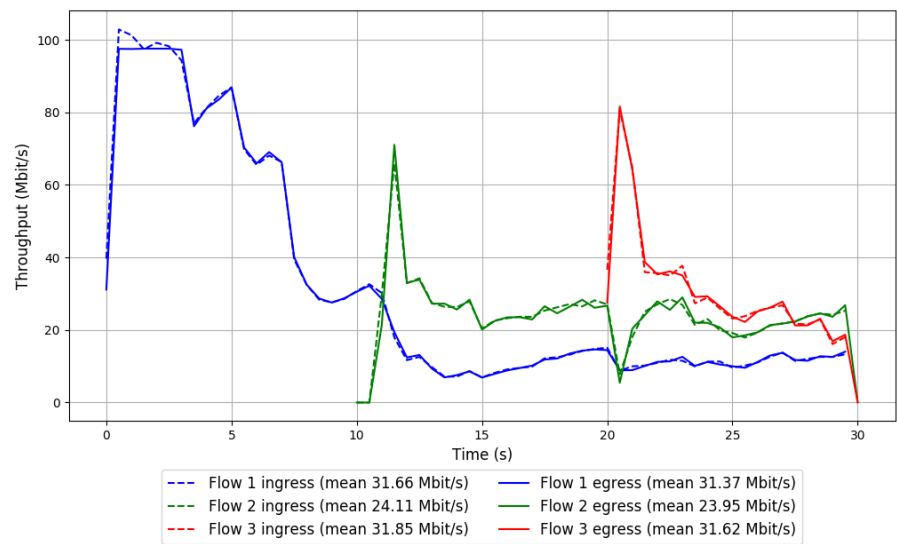
Run 3: Statistics of TCP Cubic

Start at: 2018-02-03 03:14:55  
End at: 2018-02-03 03:15:25  
Local clock offset: 1.333 ms  
Remote clock offset: -1.229 ms

# Below is generated by plot.py at 2018-02-03 07:06:54  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 57.82 Mbit/s  
95th percentile per-packet one-way delay: 58.072 ms  
Loss rate: 0.81%  
-- Flow 1:  
Average throughput: 31.37 Mbit/s  
95th percentile per-packet one-way delay: 59.099 ms  
Loss rate: 0.91%  
-- Flow 2:  
Average throughput: 23.95 Mbit/s  
95th percentile per-packet one-way delay: 50.209 ms  
Loss rate: 0.66%  
-- Flow 3:  
Average throughput: 31.62 Mbit/s  
95th percentile per-packet one-way delay: 43.597 ms  
Loss rate: 0.72%



Run 3: Report of TCP Cubic — Data Link

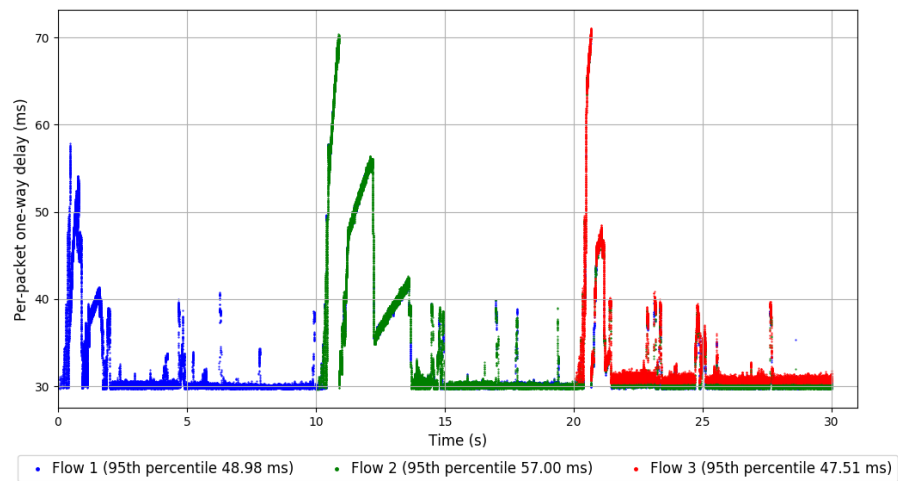
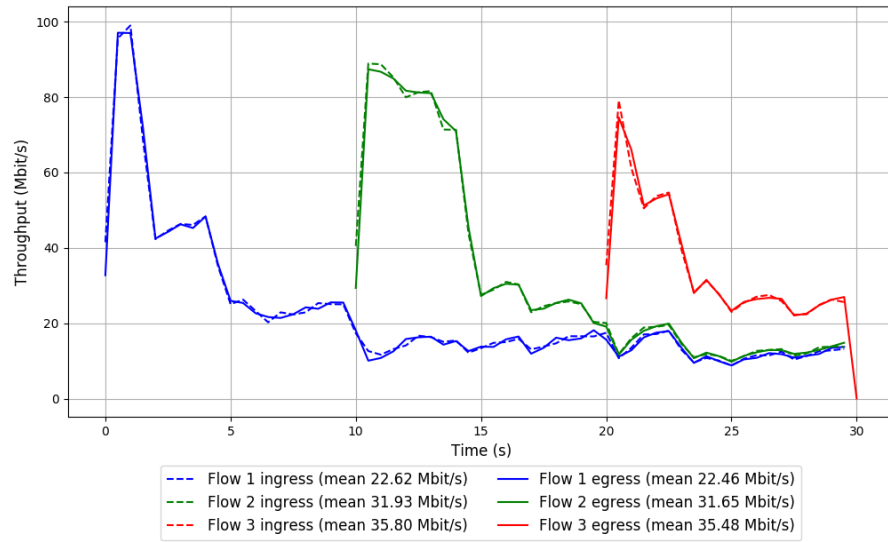


Run 4: Statistics of TCP Cubic

Start at: 2018-02-03 03:41:02  
End at: 2018-02-03 03:41:32  
Local clock offset: 1.324 ms  
Remote clock offset: -1.874 ms

# Below is generated by plot.py at 2018-02-03 07:06:54  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 55.31 Mbit/s  
95th percentile per-packet one-way delay: 54.553 ms  
Loss rate: 0.82%  
-- Flow 1:  
Average throughput: 22.46 Mbit/s  
95th percentile per-packet one-way delay: 48.982 ms  
Loss rate: 0.73%  
-- Flow 2:  
Average throughput: 31.65 Mbit/s  
95th percentile per-packet one-way delay: 56.998 ms  
Loss rate: 0.87%  
-- Flow 3:  
Average throughput: 35.48 Mbit/s  
95th percentile per-packet one-way delay: 47.510 ms  
Loss rate: 0.89%

# Run 4: Report of TCP Cubic — Data Link

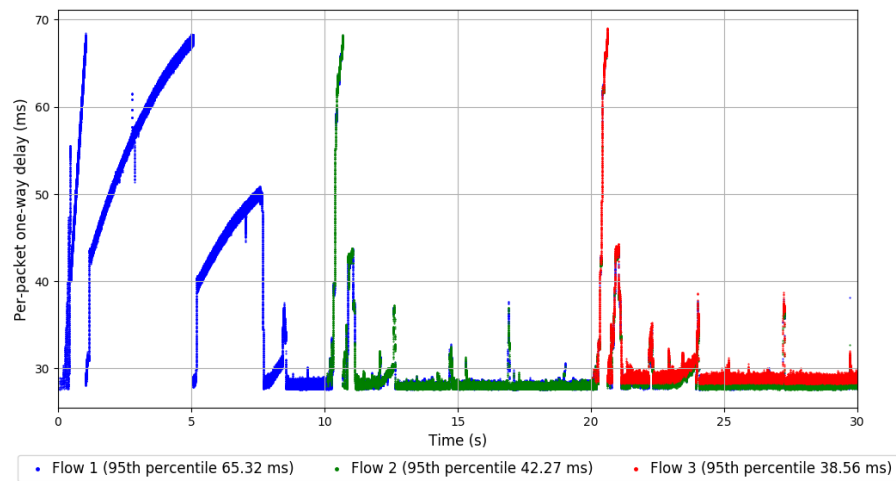
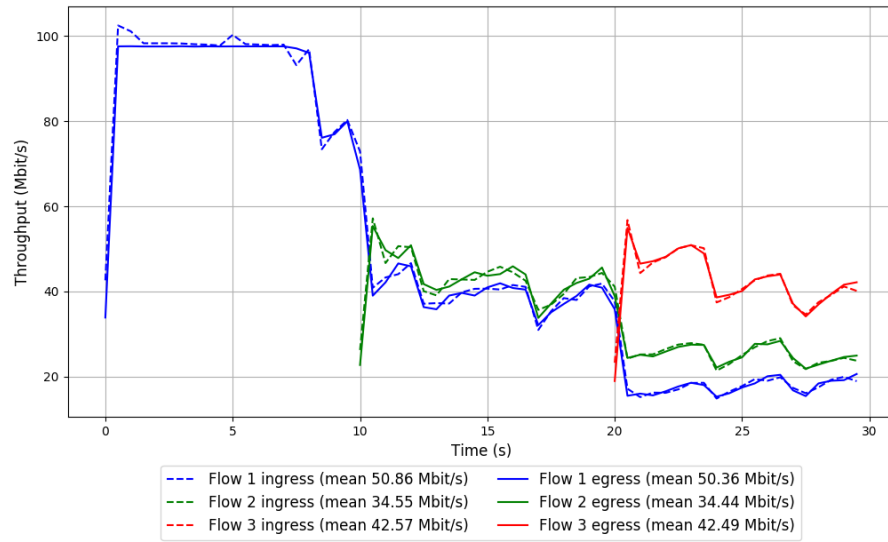


Run 5: Statistics of TCP Cubic

Start at: 2018-02-03 04:06:08  
End at: 2018-02-03 04:06:38  
Local clock offset: 1.318 ms  
Remote clock offset: -2.993 ms

# Below is generated by plot.py at 2018-02-03 07:06:54  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 87.39 Mbit/s  
95th percentile per-packet one-way delay: 63.856 ms  
Loss rate: 0.68%  
-- Flow 1:  
Average throughput: 50.36 Mbit/s  
95th percentile per-packet one-way delay: 65.322 ms  
Loss rate: 0.98%  
-- Flow 2:  
Average throughput: 34.44 Mbit/s  
95th percentile per-packet one-way delay: 42.271 ms  
Loss rate: 0.32%  
-- Flow 3:  
Average throughput: 42.49 Mbit/s  
95th percentile per-packet one-way delay: 38.563 ms  
Loss rate: 0.18%

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



Run 6: Statistics of TCP Cubic

Start at: 2018-02-03 04:31:23

End at: 2018-02-03 04:31:53

Local clock offset: 1.363 ms

Remote clock offset: 0.108 ms

# Below is generated by plot.py at 2018-02-03 07:06:54

# Datalink statistics

-- Total of 3 flows:

Average throughput: 85.52 Mbit/s

95th percentile per-packet one-way delay: 66.191 ms

Loss rate: 0.77%

-- Flow 1:

Average throughput: 39.00 Mbit/s

95th percentile per-packet one-way delay: 61.691 ms

Loss rate: 0.87%

-- Flow 2:

Average throughput: 53.97 Mbit/s

95th percentile per-packet one-way delay: 67.639 ms

Loss rate: 0.86%

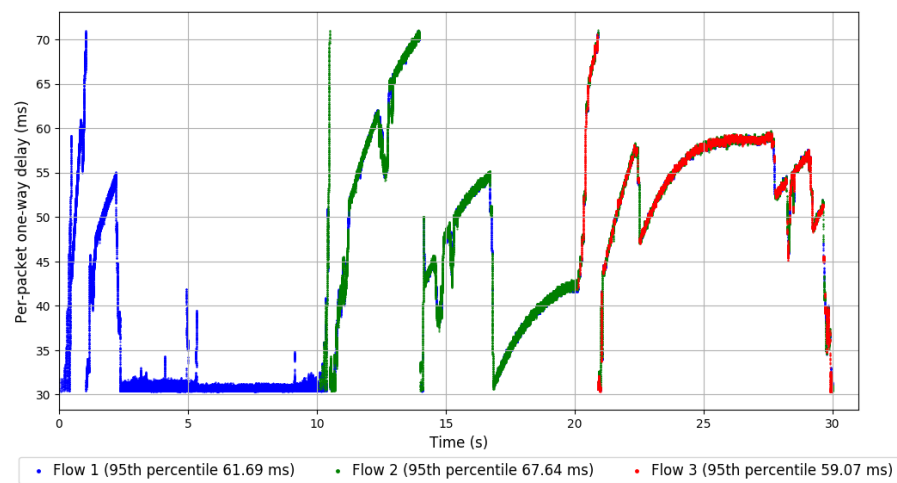
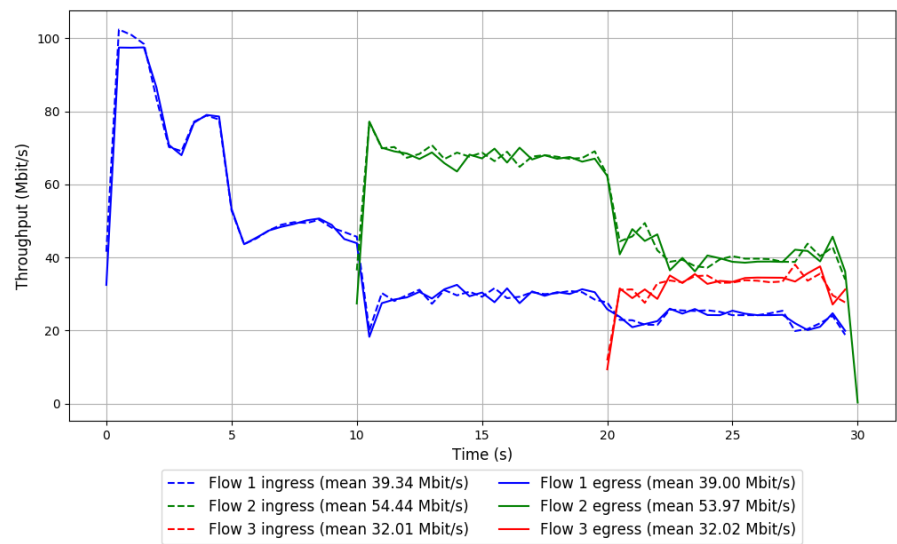
-- Flow 3:

Average throughput: 32.02 Mbit/s

95th percentile per-packet one-way delay: 59.073 ms

Loss rate: 0.11%

Run 6: Report of TCP Cubic — Data Link



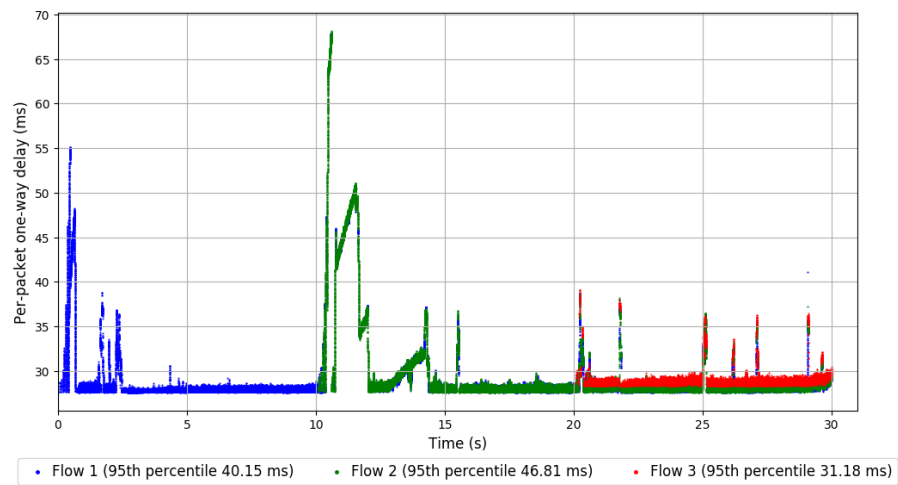
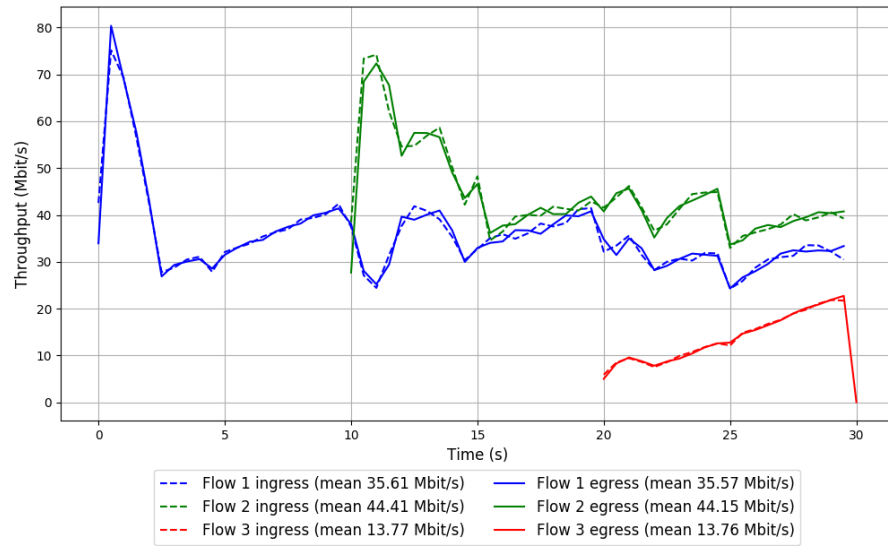
Run 7: Statistics of TCP Cubic

Start at: 2018-02-03 04:57:31  
End at: 2018-02-03 04:58:01  
Local clock offset: 1.204 ms  
Remote clock offset: -0.959 ms

# Below is generated by plot.py at 2018-02-03 07:07:06  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 69.53 Mbit/s  
95th percentile per-packet one-way delay: 43.763 ms  
Loss rate: 0.29%  
-- Flow 1:  
Average throughput: 35.57 Mbit/s  
95th percentile per-packet one-way delay: 40.149 ms  
Loss rate: 0.09%  
-- Flow 2:  
Average throughput: 44.15 Mbit/s  
95th percentile per-packet one-way delay: 46.814 ms  
Loss rate: 0.58%  
-- Flow 3:  
Average throughput: 13.76 Mbit/s  
95th percentile per-packet one-way delay: 31.181 ms  
Loss rate: 0.10%



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



Run 8: Statistics of TCP Cubic

Start at: 2018-02-03 05:24:04

End at: 2018-02-03 05:24:34

Local clock offset: 1.036 ms

Remote clock offset: 2.194 ms

# Below is generated by plot.py at 2018-02-03 07:07:28

# Datalink statistics

-- Total of 3 flows:

Average throughput: 79.35 Mbit/s

95th percentile per-packet one-way delay: 64.385 ms

Loss rate: 0.47%

-- Flow 1:

Average throughput: 31.76 Mbit/s

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

Loss rate: 0.60%

-- Flow 2:

Average throughput: 41.21 Mbit/s

95th percentile per-packet one-way delay: 59.980 ms

Loss rate: 0.45%

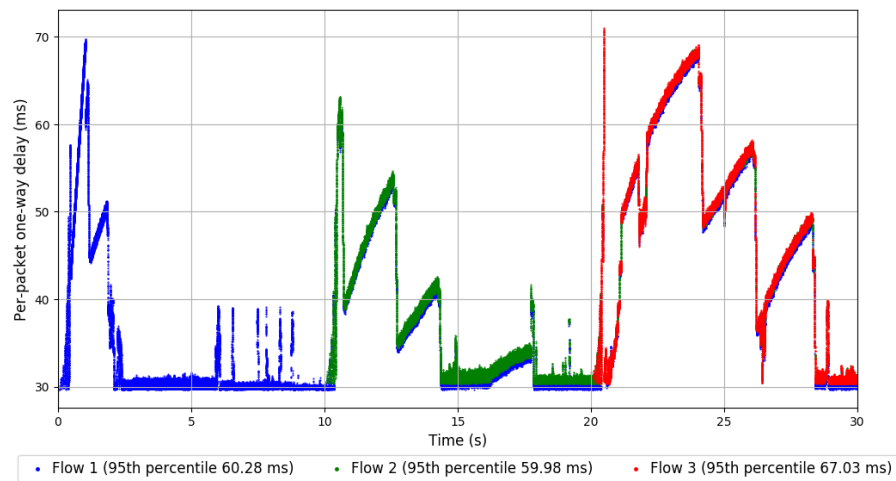
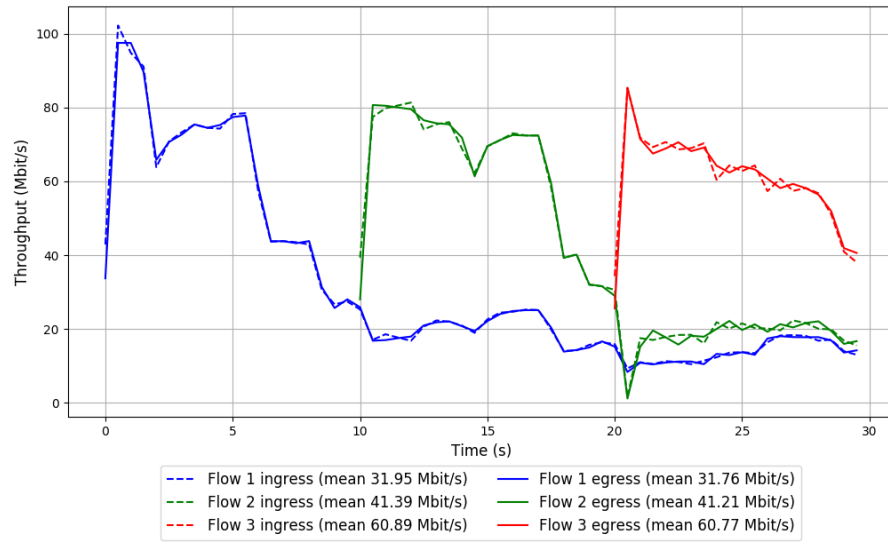
-- Flow 3:

Average throughput: 60.77 Mbit/s

95th percentile per-packet one-way delay: 67.032 ms

Loss rate: 0.31%

# Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-02-03 05:51:03

End at: 2018-02-03 05:51:33

Local clock offset: 1.028 ms

Remote clock offset: 0.554 ms

# Below is generated by plot.py at 2018-02-03 07:07:46

# Datalink statistics

-- Total of 3 flows:

Average throughput: 93.37 Mbit/s

95th percentile per-packet one-way delay: 59.376 ms

Loss rate: 0.57%

-- Flow 1:

Average throughput: 54.82 Mbit/s

95th percentile per-packet one-way delay: 58.685 ms

Loss rate: 0.48%

-- Flow 2:

Average throughput: 42.80 Mbit/s

95th percentile per-packet one-way delay: 60.278 ms

Loss rate: 0.60%

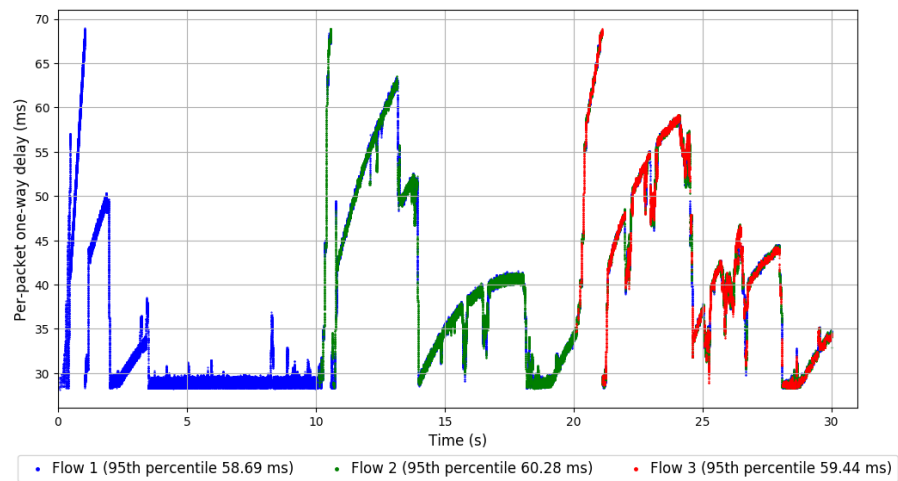
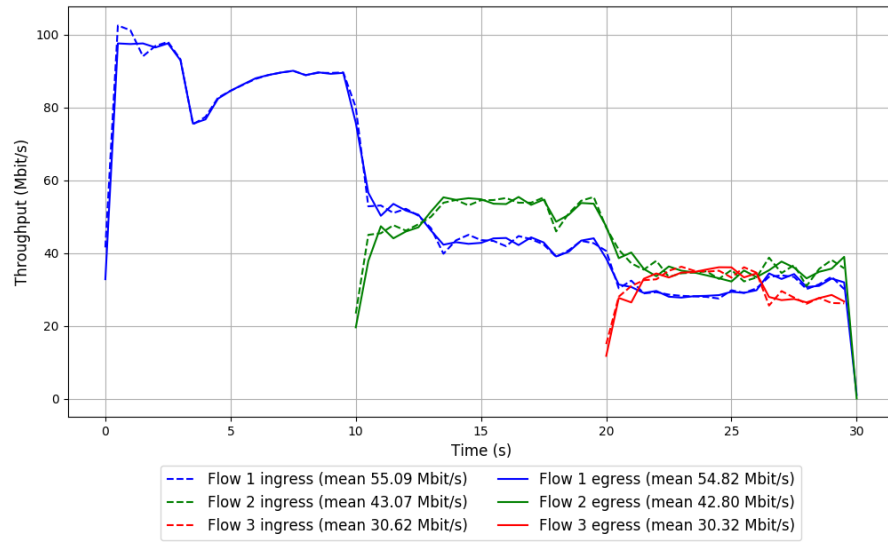
-- Flow 3:

Average throughput: 30.32 Mbit/s

95th percentile per-packet one-way delay: 59.441 ms

Loss rate: 0.99%

# Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-02-03 06:17:02

End at: 2018-02-03 06:17:32

Local clock offset: 0.95 ms

Remote clock offset: 1.792 ms

# Below is generated by plot.py at 2018-02-03 07:07:46

# Datalink statistics

-- Total of 3 flows:

Average throughput: 51.20 Mbit/s

95th percentile per-packet one-way delay: 65.135 ms

Loss rate: 0.70%

-- Flow 1:

Average throughput: 13.06 Mbit/s

95th percentile per-packet one-way delay: 60.619 ms

Loss rate: 0.53%

-- Flow 2:

Average throughput: 34.35 Mbit/s

95th percentile per-packet one-way delay: 66.406 ms

Loss rate: 0.63%

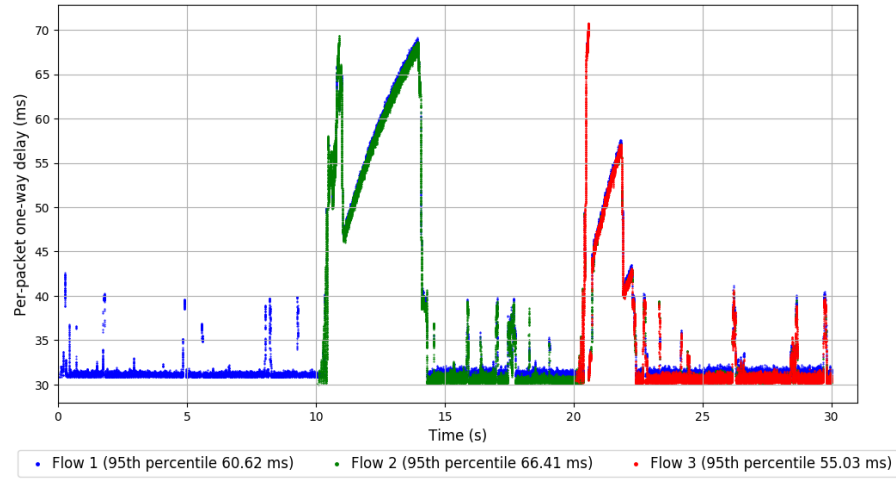
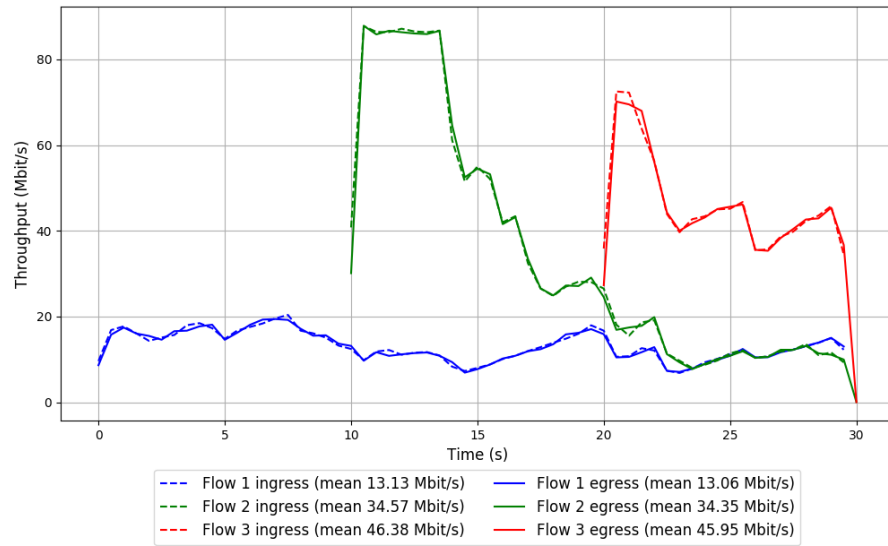
-- Flow 3:

Average throughput: 45.95 Mbit/s

95th percentile per-packet one-way delay: 55.034 ms

Loss rate: 0.94%

# Run 10: Report of TCP Cubic — Data Link



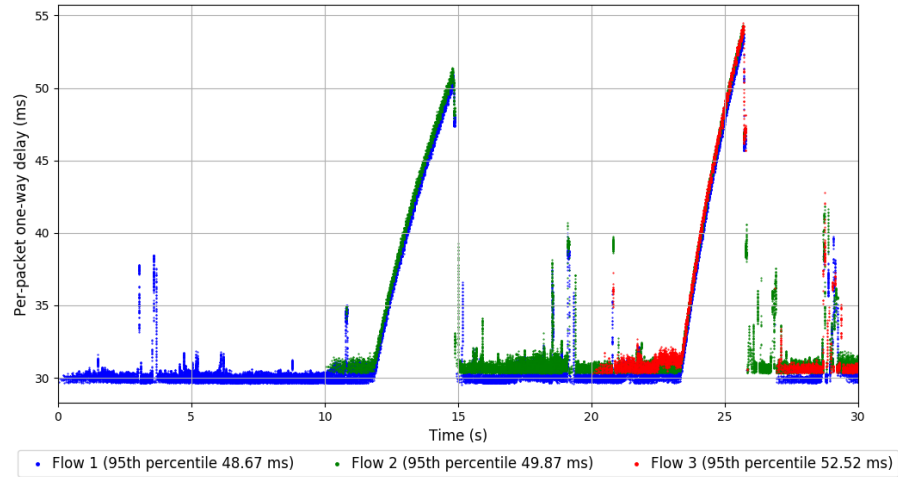
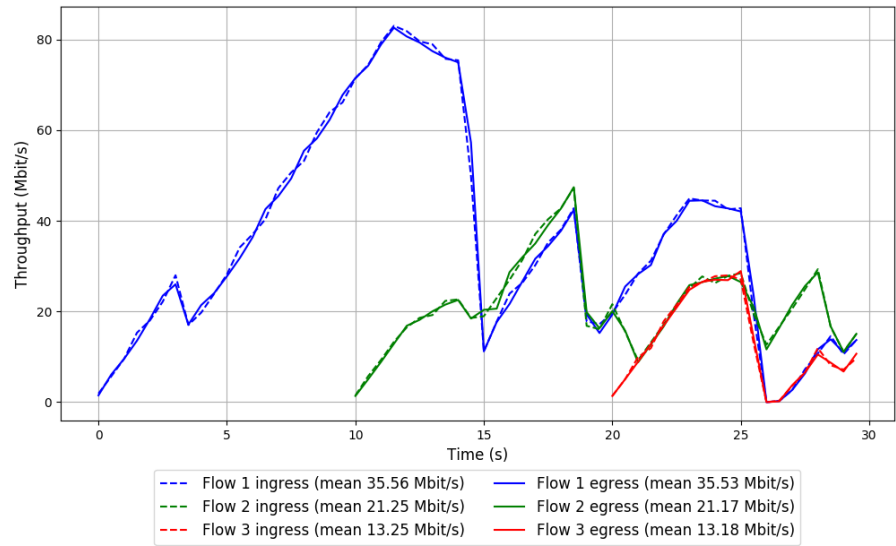
```
Run 1: Statistics of LEDBAT

Start at: 2018-02-03 02:18:08
End at: 2018-02-03 02:18:38
Local clock offset: 1.069 ms
Remote clock offset: 0.993 ms

# Below is generated by plot.py at 2018-02-03 07:07:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 53.98 Mbit/s
95th percentile per-packet one-way delay: 49.412 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 35.53 Mbit/s
95th percentile per-packet one-way delay: 48.672 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 21.17 Mbit/s
95th percentile per-packet one-way delay: 49.866 ms
Loss rate: 0.37%
-- Flow 3:
Average throughput: 13.18 Mbit/s
95th percentile per-packet one-way delay: 52.522 ms
Loss rate: 0.47%
```



# Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-02-03 02:43:23

End at: 2018-02-03 02:43:53

Local clock offset: 1.14 ms

Remote clock offset: 1.102 ms

# Below is generated by plot.py at 2018-02-03 07:07:49

# Datalink statistics

-- Total of 3 flows:

Average throughput: 63.62 Mbit/s

95th percentile per-packet one-way delay: 61.925 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 37.01 Mbit/s

95th percentile per-packet one-way delay: 62.426 ms

Loss rate: 0.16%

-- Flow 2:

Average throughput: 27.43 Mbit/s

95th percentile per-packet one-way delay: 60.914 ms

Loss rate: 0.08%

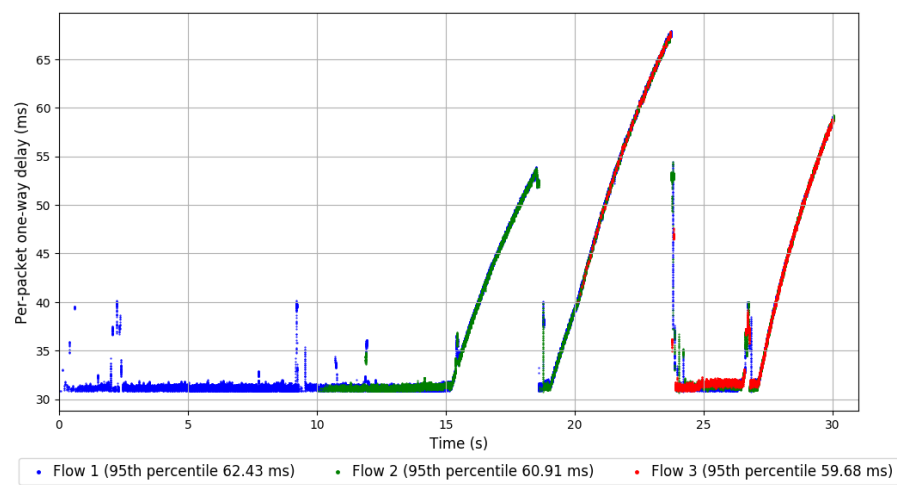
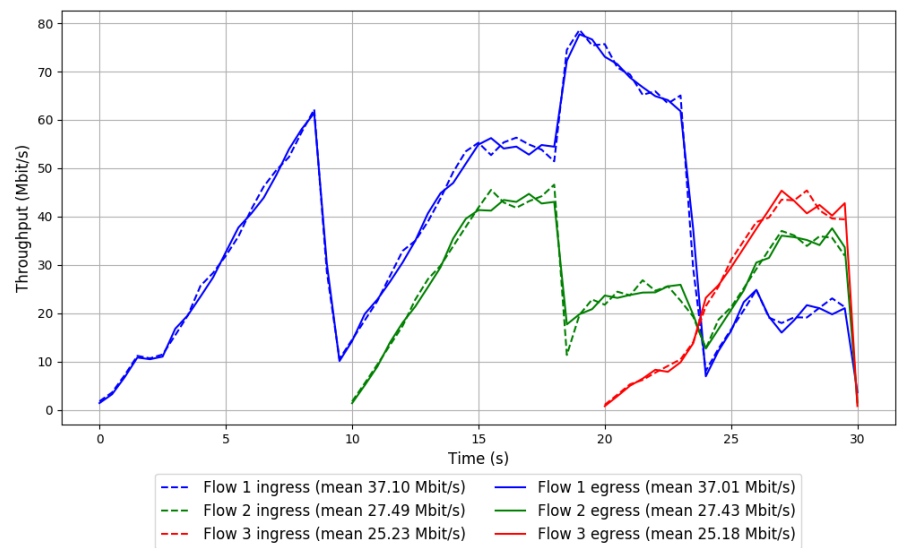
-- Flow 3:

Average throughput: 25.18 Mbit/s

95th percentile per-packet one-way delay: 59.681 ms

Loss rate: 0.00%

Run 2: Report of LEDBAT — Data Link

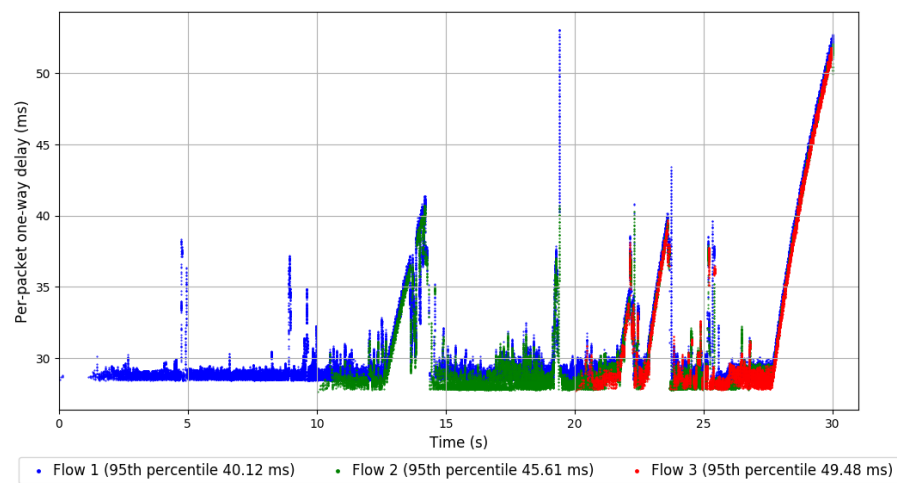
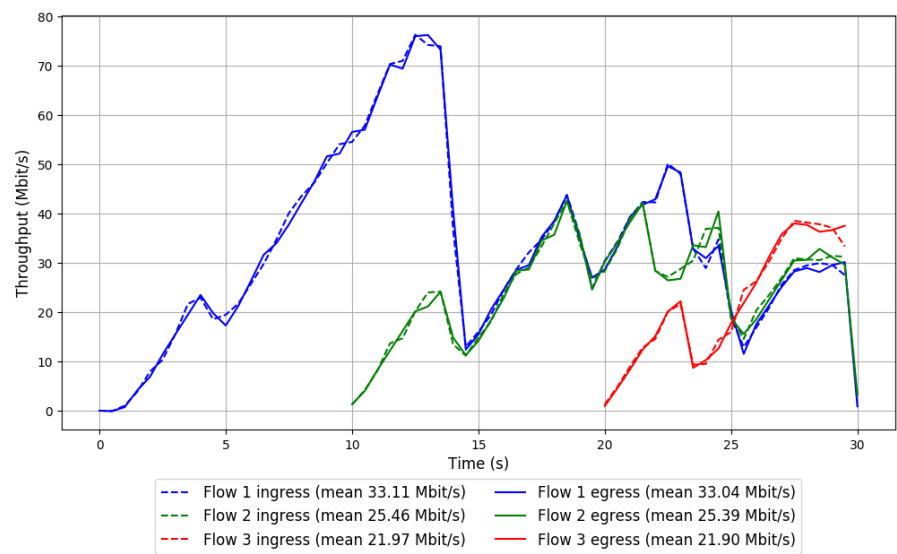


Run 3: Statistics of LEDBAT

Start at: 2018-02-03 03:09:03  
End at: 2018-02-03 03:09:33  
Local clock offset: 1.284 ms  
Remote clock offset: -2.808 ms

# Below is generated by plot.py at 2018-02-03 07:07:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 57.22 Mbit/s  
95th percentile per-packet one-way delay: 45.074 ms  
Loss rate: 0.13%  
-- Flow 1:  
Average throughput: 33.04 Mbit/s  
95th percentile per-packet one-way delay: 40.115 ms  
Loss rate: 0.13%  
-- Flow 2:  
Average throughput: 25.39 Mbit/s  
95th percentile per-packet one-way delay: 45.613 ms  
Loss rate: 0.13%  
-- Flow 3:  
Average throughput: 21.90 Mbit/s  
95th percentile per-packet one-way delay: 49.484 ms  
Loss rate: 0.09%

Run 3: Report of LEDBAT — Data Link

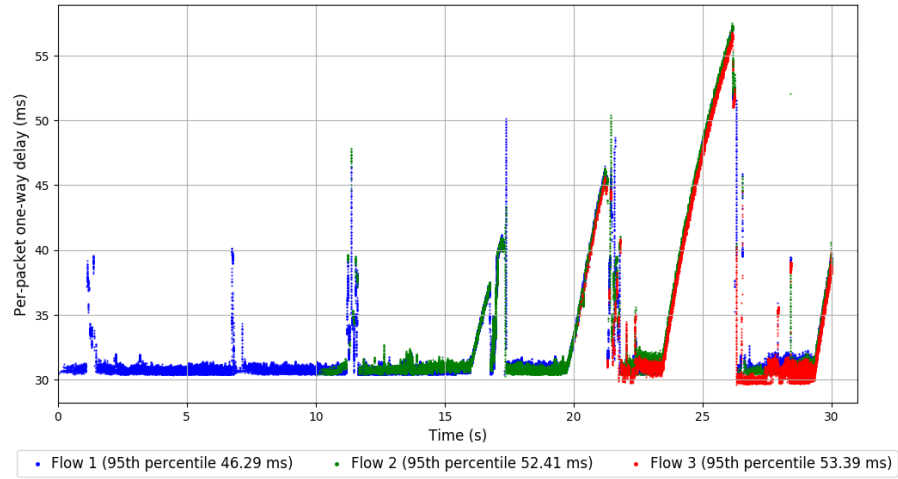
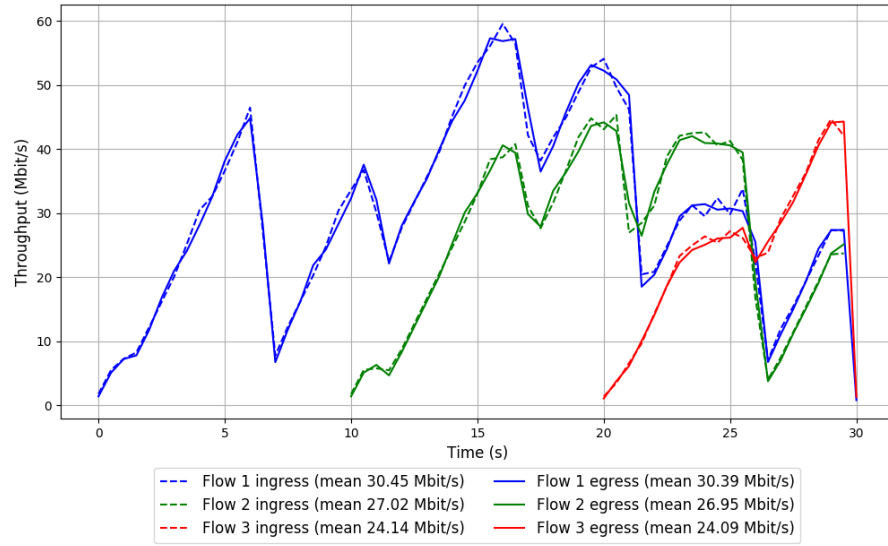


Run 4: Statistics of LEDBAT

Start at: 2018-02-03 03:35:24  
End at: 2018-02-03 03:35:54  
Local clock offset: 1.317 ms  
Remote clock offset: -1.949 ms

# Below is generated by plot.py at 2018-02-03 07:07:50  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 56.33 Mbit/s  
95th percentile per-packet one-way delay: 51.103 ms  
Loss rate: 0.18%  
-- Flow 1:  
Average throughput: 30.39 Mbit/s  
95th percentile per-packet one-way delay: 46.292 ms  
Loss rate: 0.18%  
-- Flow 2:  
Average throughput: 26.95 Mbit/s  
95th percentile per-packet one-way delay: 52.409 ms  
Loss rate: 0.21%  
-- Flow 3:  
Average throughput: 24.09 Mbit/s  
95th percentile per-packet one-way delay: 53.393 ms  
Loss rate: 0.14%

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



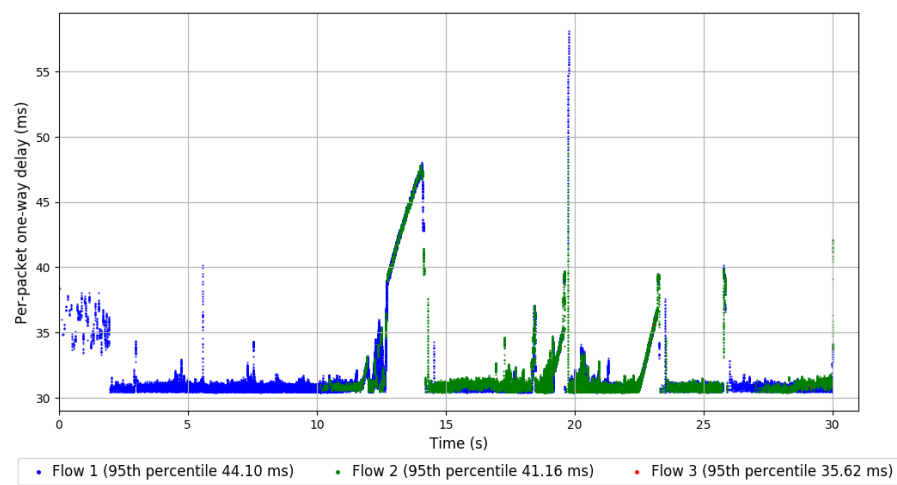
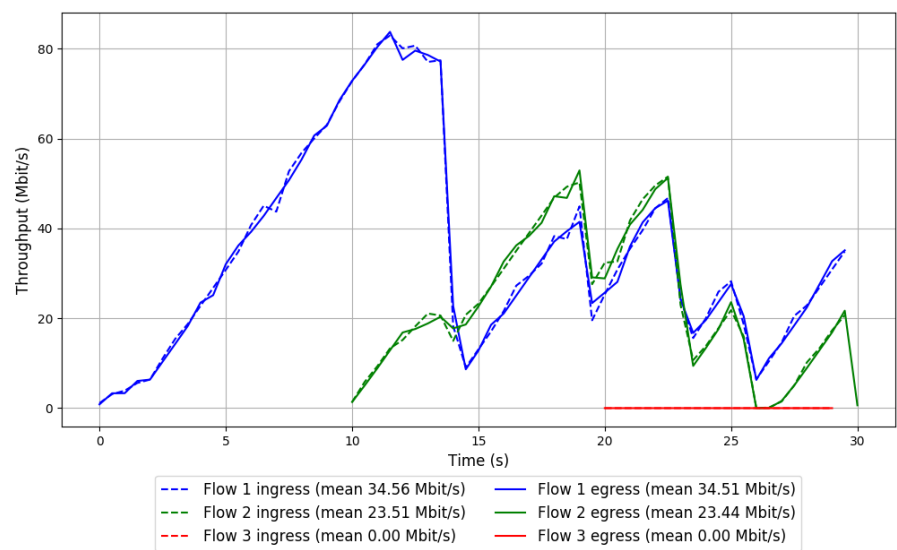
Run 5: Statistics of LEDBAT

Start at: 2018-02-03 04:00:39  
End at: 2018-02-03 04:01:09  
Local clock offset: 1.298 ms  
Remote clock offset: -1.138 ms

# Below is generated by plot.py at 2018-02-03 07:07:56  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 50.11 Mbit/s  
95th percentile per-packet one-way delay: 43.395 ms  
Loss rate: 0.19%  
-- Flow 1:  
Average throughput: 34.51 Mbit/s  
95th percentile per-packet one-way delay: 44.098 ms  
Loss rate: 0.15%  
-- Flow 2:  
Average throughput: 23.44 Mbit/s  
95th percentile per-packet one-way delay: 41.161 ms  
Loss rate: 0.27%  
-- Flow 3:  
Average throughput: 0.00 Mbit/s  
95th percentile per-packet one-way delay: 35.622 ms  
Loss rate: 0.00%



Run 5: Report of LEDBAT — Data Link

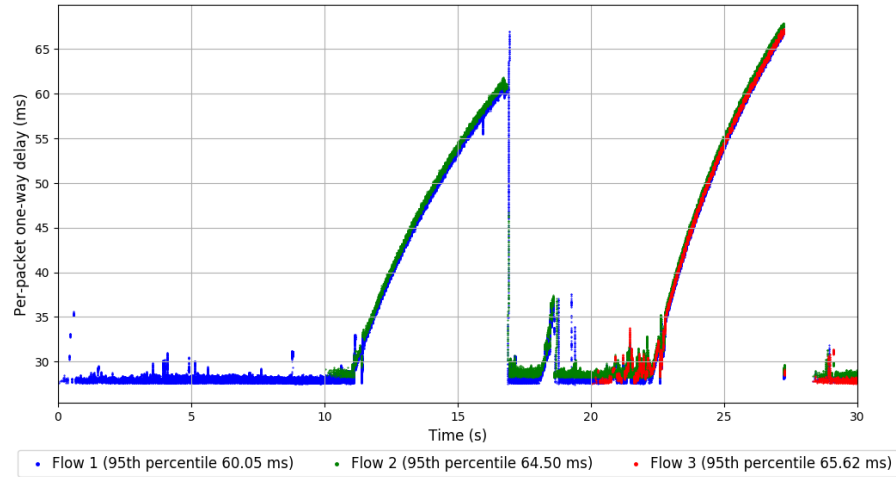
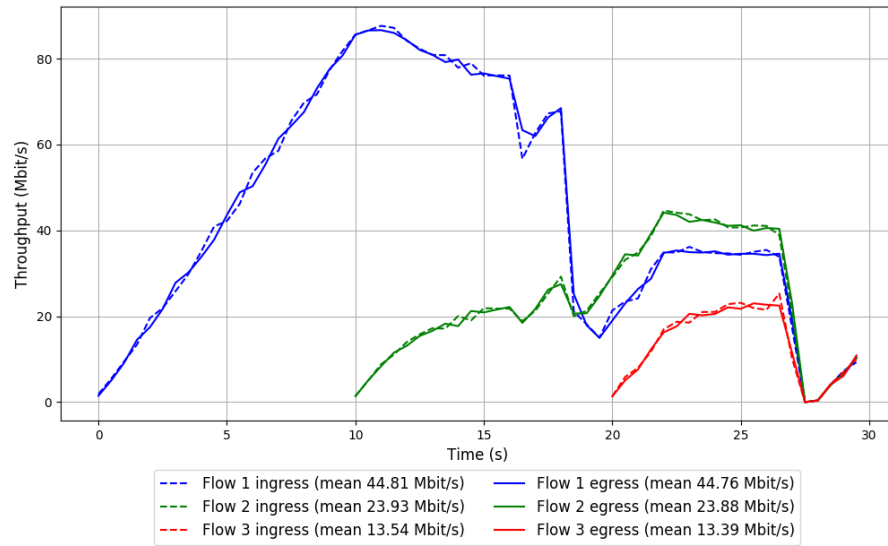


Run 6: Statistics of LEDBAT

Start at: 2018-02-03 04:25:43  
End at: 2018-02-03 04:26:13  
Local clock offset: 1.391 ms  
Remote clock offset: -2.246 ms

# Below is generated by plot.py at 2018-02-03 07:08:20  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 65.02 Mbit/s  
95th percentile per-packet one-way delay: 62.016 ms  
Loss rate: 0.21%  
-- Flow 1:  
Average throughput: 44.76 Mbit/s  
95th percentile per-packet one-way delay: 60.047 ms  
Loss rate: 0.11%  
-- Flow 2:  
Average throughput: 23.88 Mbit/s  
95th percentile per-packet one-way delay: 64.502 ms  
Loss rate: 0.22%  
-- Flow 3:  
Average throughput: 13.39 Mbit/s  
95th percentile per-packet one-way delay: 65.616 ms  
Loss rate: 1.09%

## Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-02-03 04:51:52

End at: 2018-02-03 04:52:22

Local clock offset: 1.345 ms

Remote clock offset: 1.353 ms

# Below is generated by plot.py at 2018-02-03 07:08:26

# Datalink statistics

-- Total of 3 flows:

Average throughput: 59.45 Mbit/s

95th percentile per-packet one-way delay: 48.571 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 35.16 Mbit/s

95th percentile per-packet one-way delay: 46.170 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 29.75 Mbit/s

95th percentile per-packet one-way delay: 48.883 ms

Loss rate: 0.11%

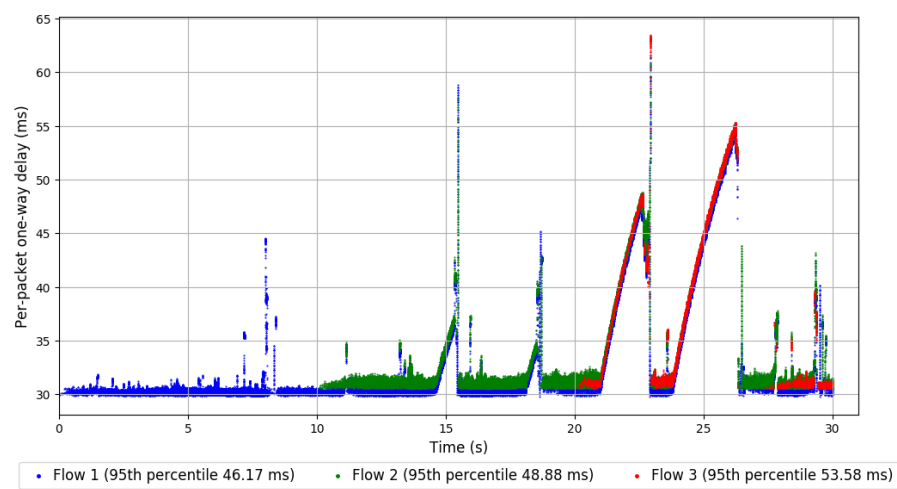
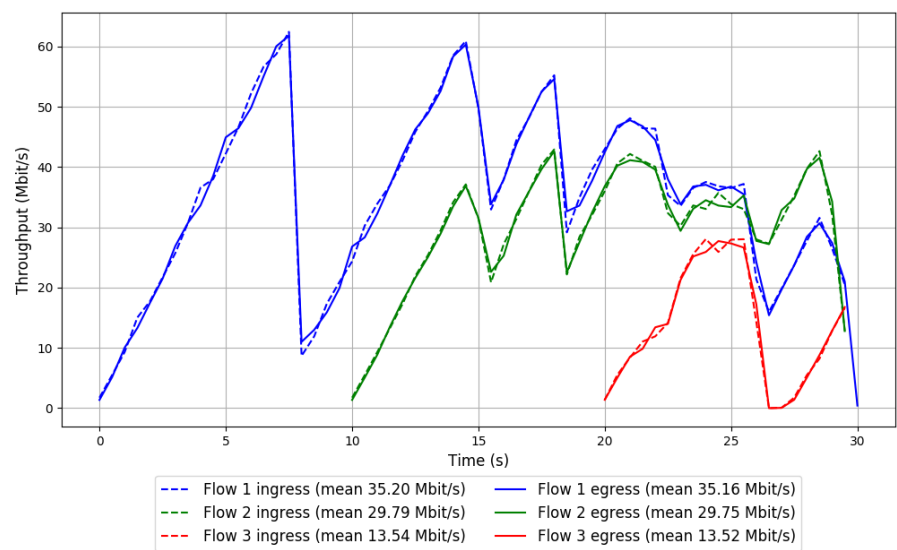
-- Flow 3:

Average throughput: 13.52 Mbit/s

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

Loss rate: 0.10%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-02-03 05:18:17

End at: 2018-02-03 05:18:47

Local clock offset: 1.064 ms

Remote clock offset: 2.402 ms

# Below is generated by plot.py at 2018-02-03 07:08:26

# Datalink statistics

-- Total of 3 flows:

Average throughput: 50.49 Mbit/s

95th percentile per-packet one-way delay: 65.329 ms

Loss rate: 0.32%

-- Flow 1:

Average throughput: 26.08 Mbit/s

95th percentile per-packet one-way delay: 62.840 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 26.68 Mbit/s

95th percentile per-packet one-way delay: 65.509 ms

Loss rate: 0.38%

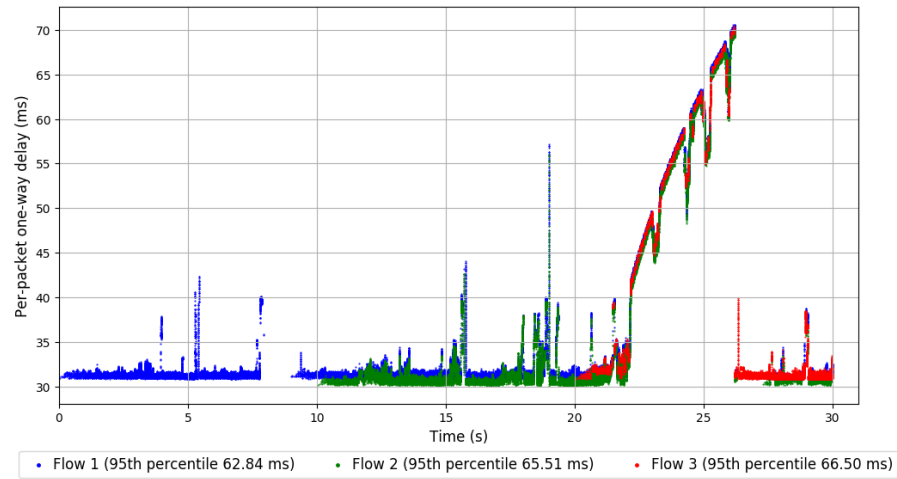
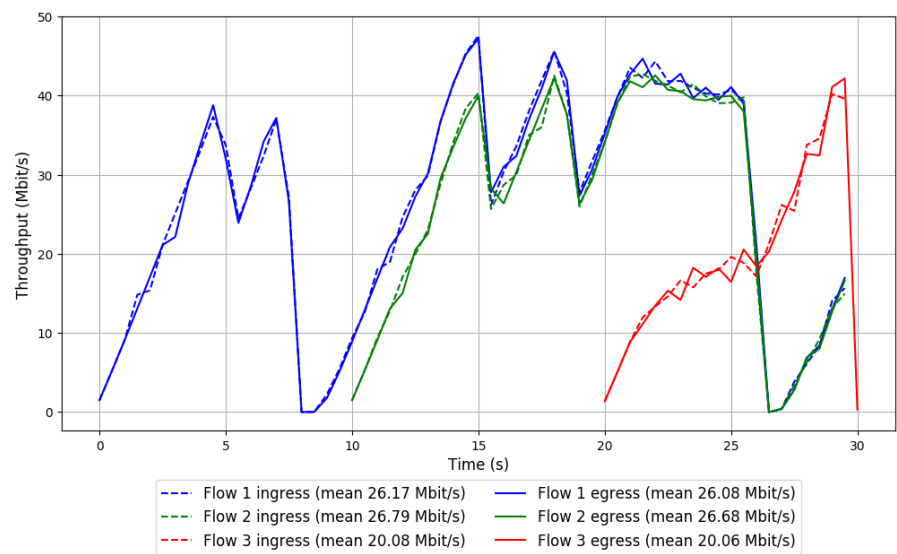
-- Flow 3:

Average throughput: 20.06 Mbit/s

95th percentile per-packet one-way delay: 66.502 ms

Loss rate: 0.09%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-02-03 05:45:21

End at: 2018-02-03 05:45:51

Local clock offset: 1.017 ms

Remote clock offset: 3.258 ms

# Below is generated by plot.py at 2018-02-03 07:08:26

# Datalink statistics

-- Total of 3 flows:

Average throughput: 27.65 Mbit/s

95th percentile per-packet one-way delay: 37.453 ms

Loss rate: 0.62%

-- Flow 1:

Average throughput: 14.30 Mbit/s

95th percentile per-packet one-way delay: 37.472 ms

Loss rate: 0.65%

-- Flow 2:

Average throughput: 13.43 Mbit/s

95th percentile per-packet one-way delay: 37.879 ms

Loss rate: 0.66%

-- Flow 3:

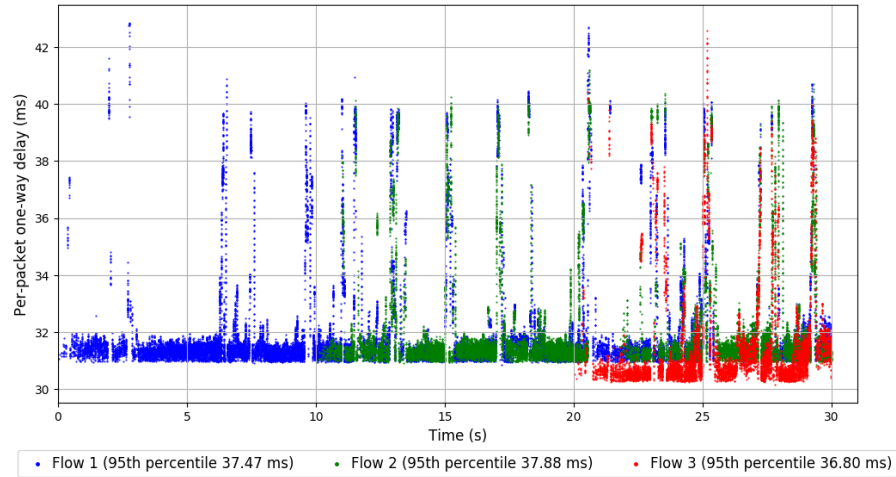
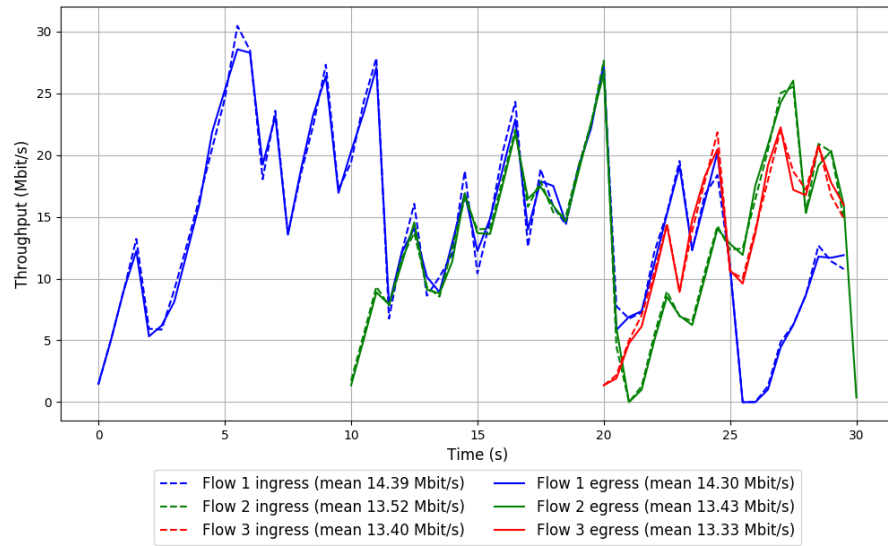
Average throughput: 13.33 Mbit/s

95th percentile per-packet one-way delay: 36.797 ms

Loss rate: 0.47%



# Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-02-03 06:11:26

End at: 2018-02-03 06:11:56

Local clock offset: 0.938 ms

Remote clock offset: 2.277 ms

# Below is generated by plot.py at 2018-02-03 07:08:29

# Datalink statistics

-- Total of 3 flows:

Average throughput: 45.52 Mbit/s

95th percentile per-packet one-way delay: 41.981 ms

Loss rate: 0.23%

-- Flow 1:

Average throughput: 25.87 Mbit/s

95th percentile per-packet one-way delay: 40.425 ms

Loss rate: 0.24%

-- Flow 2:

Average throughput: 21.31 Mbit/s

95th percentile per-packet one-way delay: 42.105 ms

Loss rate: 0.21%

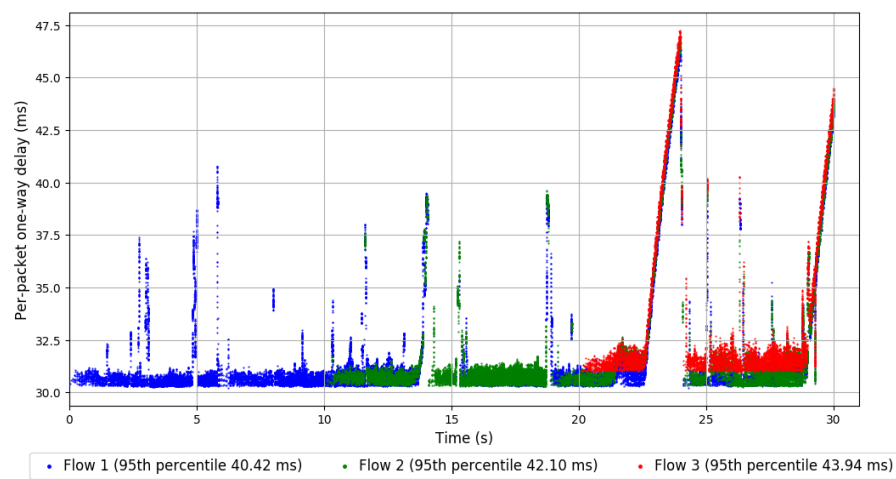
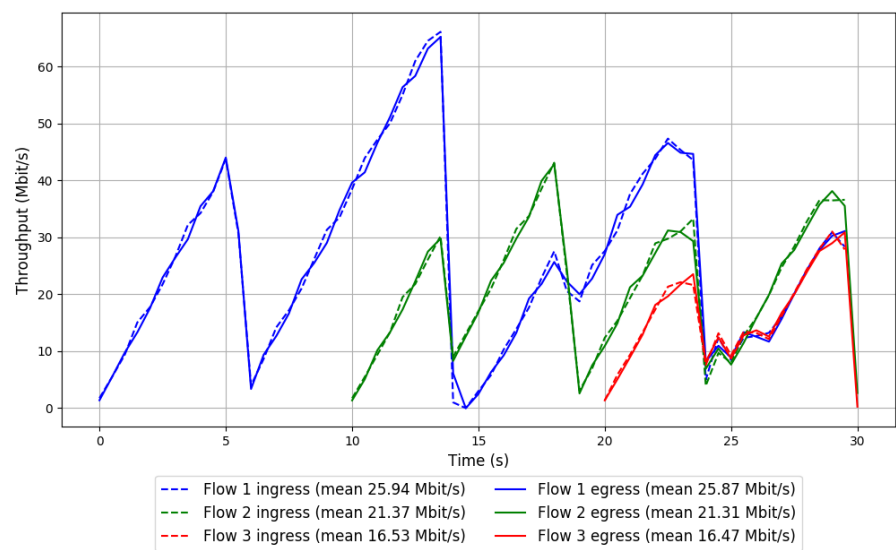
-- Flow 3:

Average throughput: 16.47 Mbit/s

95th percentile per-packet one-way delay: 43.941 ms

Loss rate: 0.24%

Run 10: Report of LEDBAT — Data Link



Run 1: Statistics of PCC

Start at: 2018-02-03 02:27:59

End at: 2018-02-03 02:28:29

Local clock offset: 1.093 ms

Remote clock offset: 1.304 ms

# Below is generated by plot.py at 2018-02-03 07:09:04

# Datalink statistics

-- Total of 3 flows:

Average throughput: 86.87 Mbit/s

95th percentile per-packet one-way delay: 61.940 ms

Loss rate: 1.22%

-- Flow 1:

Average throughput: 79.79 Mbit/s

95th percentile per-packet one-way delay: 61.908 ms

Loss rate: 1.26%

-- Flow 2:

Average throughput: 9.47 Mbit/s

95th percentile per-packet one-way delay: 62.331 ms

Loss rate: 0.75%

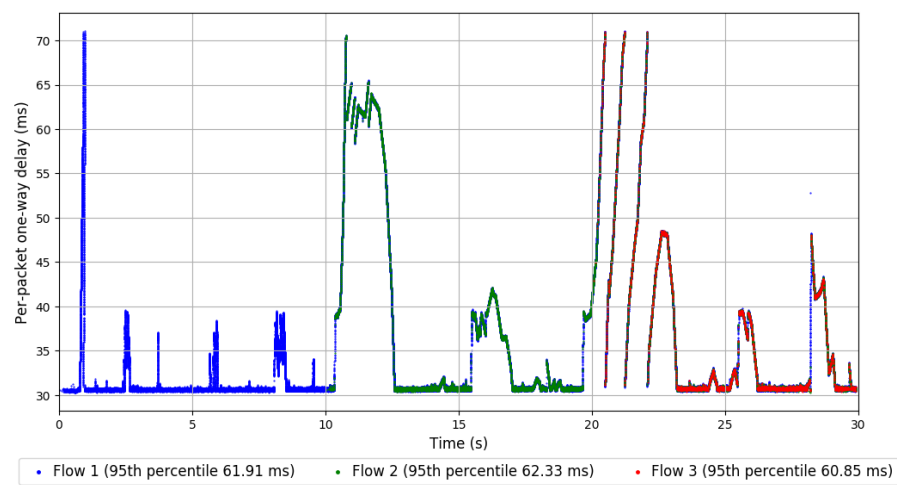
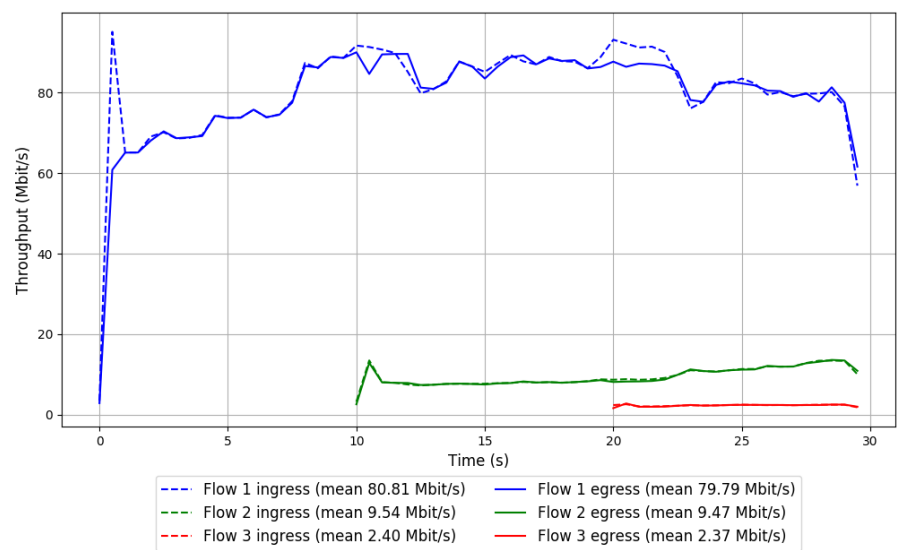
-- Flow 3:

Average throughput: 2.37 Mbit/s

95th percentile per-packet one-way delay: 60.848 ms

Loss rate: 1.37%

Run 1: Report of PCC — Data Link

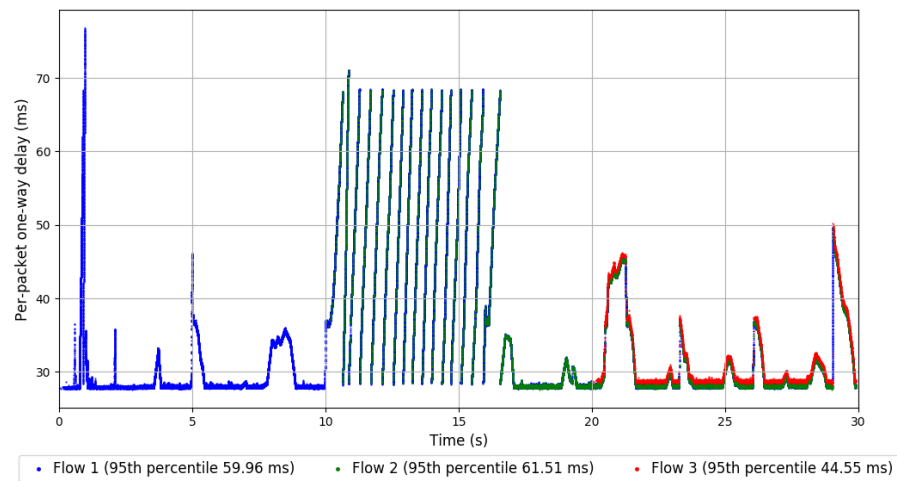
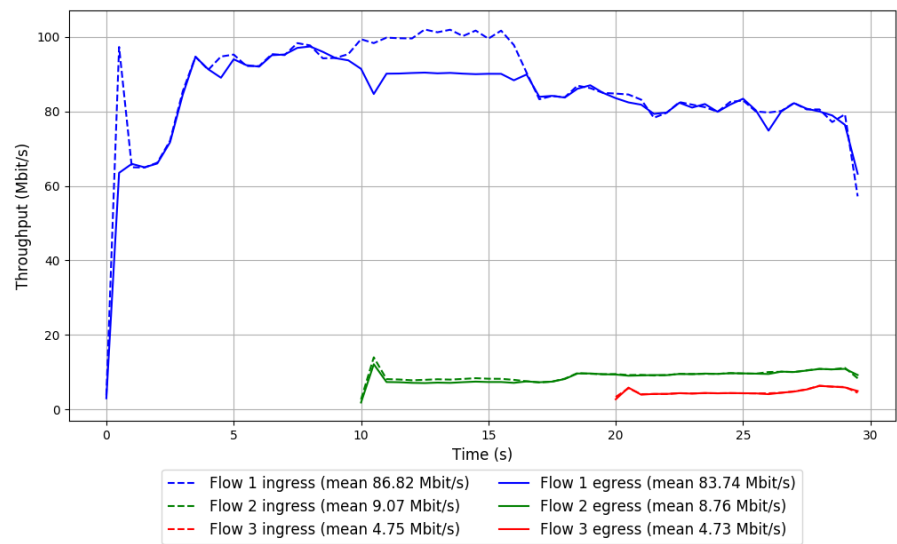


Run 2: Statistics of PCC

Start at: 2018-02-03 02:53:05  
End at: 2018-02-03 02:53:35  
Local clock offset: 1.187 ms  
Remote clock offset: -1.736 ms

# Below is generated by plot.py at 2018-02-03 07:09:10  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 91.11 Mbit/s  
95th percentile per-packet one-way delay: 59.929 ms  
Loss rate: 3.49%  
-- Flow 1:  
Average throughput: 83.74 Mbit/s  
95th percentile per-packet one-way delay: 59.964 ms  
Loss rate: 3.55%  
-- Flow 2:  
Average throughput: 8.76 Mbit/s  
95th percentile per-packet one-way delay: 61.510 ms  
Loss rate: 3.42%  
-- Flow 3:  
Average throughput: 4.73 Mbit/s  
95th percentile per-packet one-way delay: 44.550 ms  
Loss rate: 0.58%

Run 2: Report of PCC — Data Link



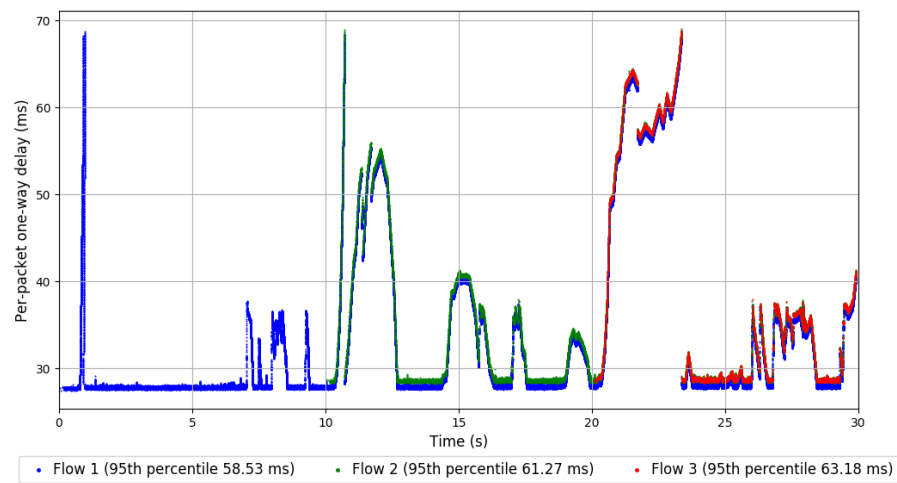
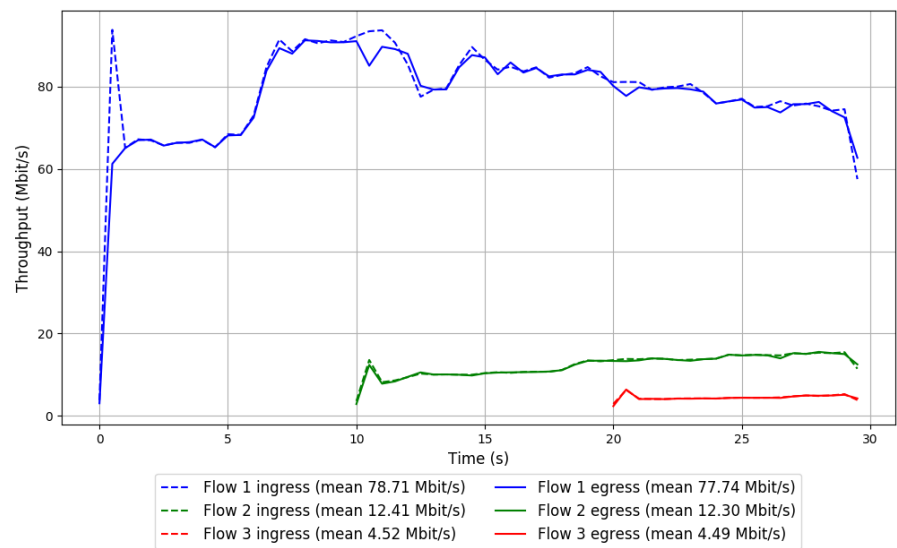
Run 3: Statistics of PCC

Start at: 2018-02-03 03:19:37  
End at: 2018-02-03 03:20:07  
Local clock offset: 1.391 ms  
Remote clock offset: -3.567 ms

# Below is generated by plot.py at 2018-02-03 07:09:15  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 87.41 Mbit/s  
95th percentile per-packet one-way delay: 59.039 ms  
Loss rate: 1.14%  
-- Flow 1:  
Average throughput: 77.74 Mbit/s  
95th percentile per-packet one-way delay: 58.529 ms  
Loss rate: 1.19%  
-- Flow 2:  
Average throughput: 12.30 Mbit/s  
95th percentile per-packet one-way delay: 61.269 ms  
Loss rate: 0.80%  
-- Flow 3:  
Average throughput: 4.49 Mbit/s  
95th percentile per-packet one-way delay: 63.184 ms  
Loss rate: 0.59%



Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-02-03 03:45:16

End at: 2018-02-03 03:45:46

Local clock offset: 1.342 ms

Remote clock offset: -3.69 ms

# Below is generated by plot.py at 2018-02-03 07:09:32

# Datalink statistics

-- Total of 3 flows:

Average throughput: 87.39 Mbit/s

95th percentile per-packet one-way delay: 46.540 ms

Loss rate: 1.31%

-- Flow 1:

Average throughput: 78.32 Mbit/s

95th percentile per-packet one-way delay: 46.472 ms

Loss rate: 1.33%

-- Flow 2:

Average throughput: 9.33 Mbit/s

95th percentile per-packet one-way delay: 48.672 ms

Loss rate: 0.80%

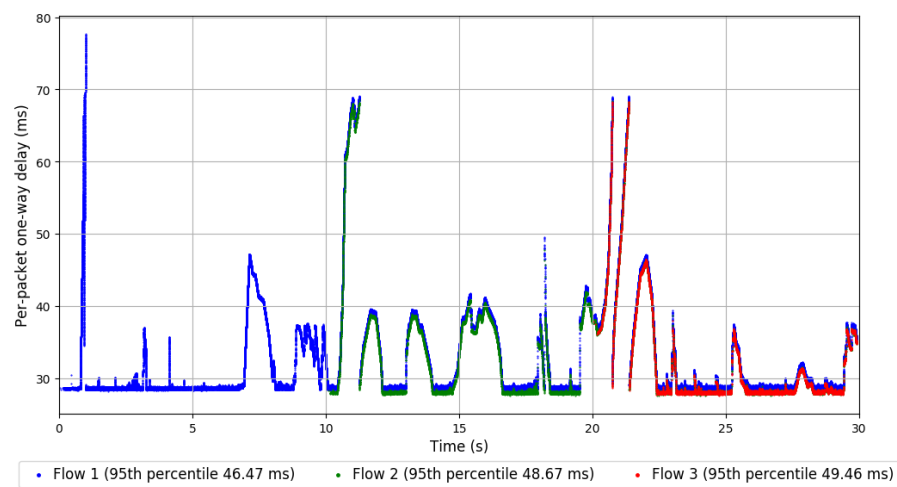
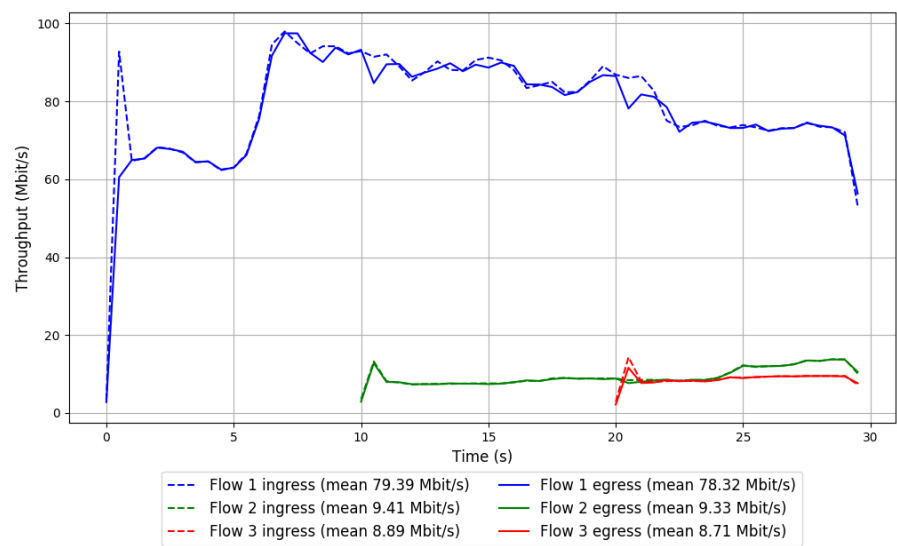
-- Flow 3:

Average throughput: 8.71 Mbit/s

95th percentile per-packet one-way delay: 49.462 ms

Loss rate: 2.08%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-02-03 04:10:21

End at: 2018-02-03 04:10:51

Local clock offset: 1.281 ms

Remote clock offset: -2.63 ms

# Below is generated by plot.py at 2018-02-03 07:09:41

# Datalink statistics

-- Total of 3 flows:

Average throughput: 88.82 Mbit/s

95th percentile per-packet one-way delay: 59.920 ms

Loss rate: 1.04%

-- Flow 1:

Average throughput: 83.21 Mbit/s

95th percentile per-packet one-way delay: 59.679 ms

Loss rate: 1.06%

-- Flow 2:

Average throughput: 4.35 Mbit/s

95th percentile per-packet one-way delay: 62.770 ms

Loss rate: 0.63%

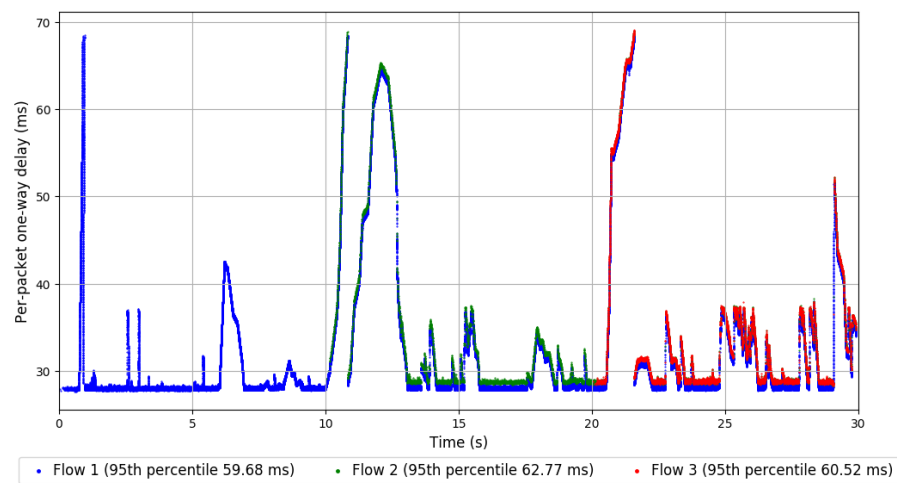
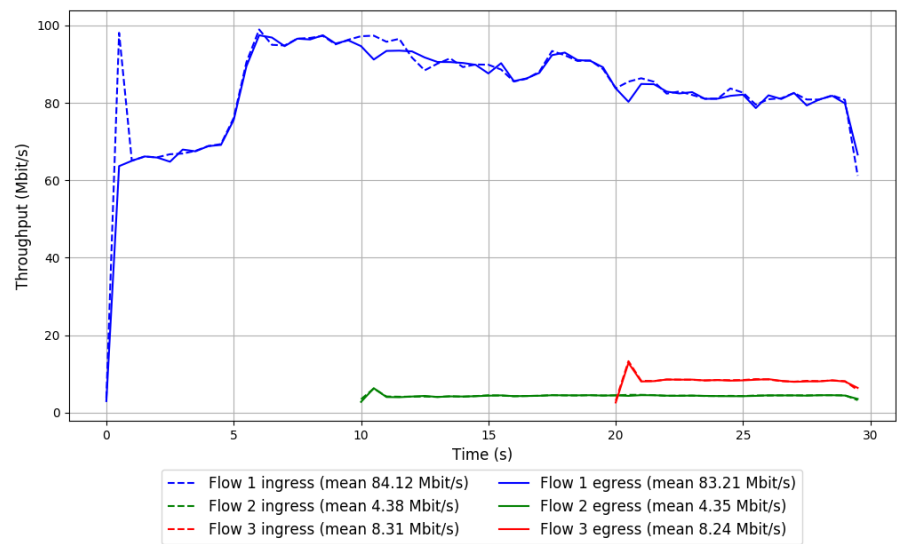
-- Flow 3:

Average throughput: 8.24 Mbit/s

95th percentile per-packet one-way delay: 60.525 ms

Loss rate: 0.68%

Run 5: Report of PCC — Data Link

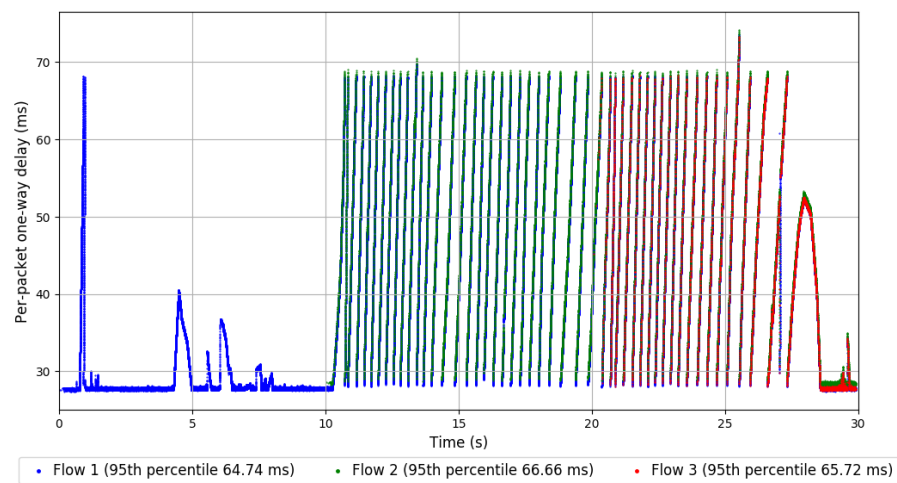
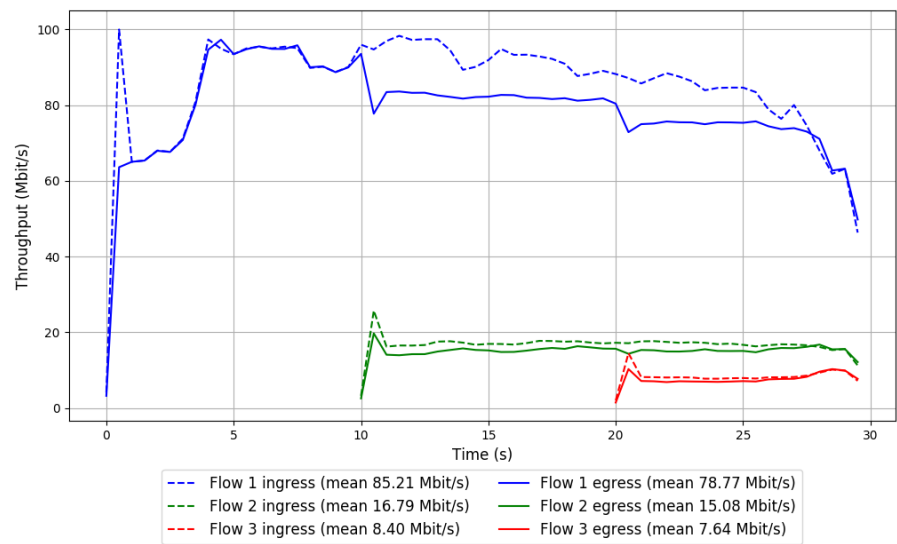


Run 6: Statistics of PCC

Start at: 2018-02-03 04:35:51  
End at: 2018-02-03 04:36:21  
Local clock offset: 1.381 ms  
Remote clock offset: -1.728 ms

# Below is generated by plot.py at 2018-02-03 07:09:46  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 91.30 Mbit/s  
95th percentile per-packet one-way delay: 65.085 ms  
Loss rate: 7.90%  
-- Flow 1:  
Average throughput: 78.77 Mbit/s  
95th percentile per-packet one-way delay: 64.744 ms  
Loss rate: 7.56%  
-- Flow 2:  
Average throughput: 15.08 Mbit/s  
95th percentile per-packet one-way delay: 66.658 ms  
Loss rate: 10.20%  
-- Flow 3:  
Average throughput: 7.64 Mbit/s  
95th percentile per-packet one-way delay: 65.720 ms  
Loss rate: 9.14%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-02-03 05:02:00

End at: 2018-02-03 05:02:30

Local clock offset: 1.271 ms

Remote clock offset: 1.823 ms

# Below is generated by plot.py at 2018-02-03 07:09:46

# Datalink statistics

-- Total of 3 flows:

Average throughput: 48.87 Mbit/s

95th percentile per-packet one-way delay: 38.094 ms

Loss rate: 0.77%

-- Flow 1:

Average throughput: 19.29 Mbit/s

95th percentile per-packet one-way delay: 37.414 ms

Loss rate: 0.56%

-- Flow 2:

Average throughput: 40.06 Mbit/s

95th percentile per-packet one-way delay: 38.491 ms

Loss rate: 0.90%

-- Flow 3:

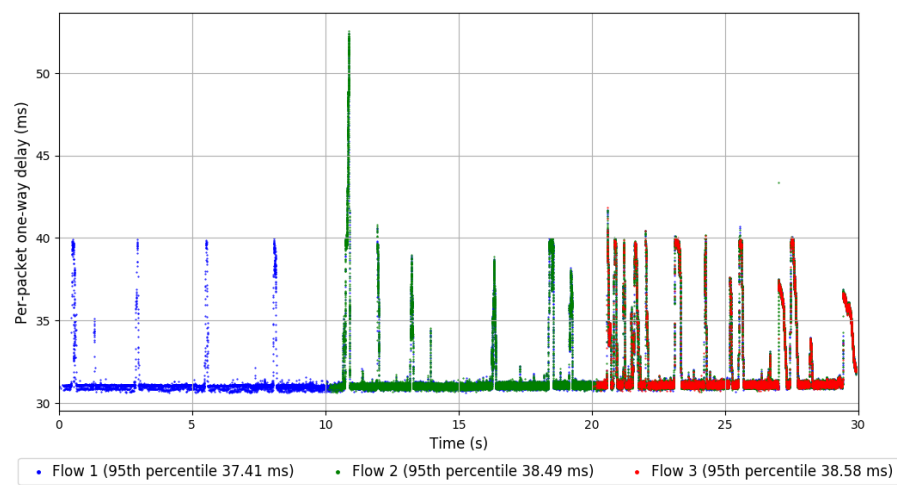
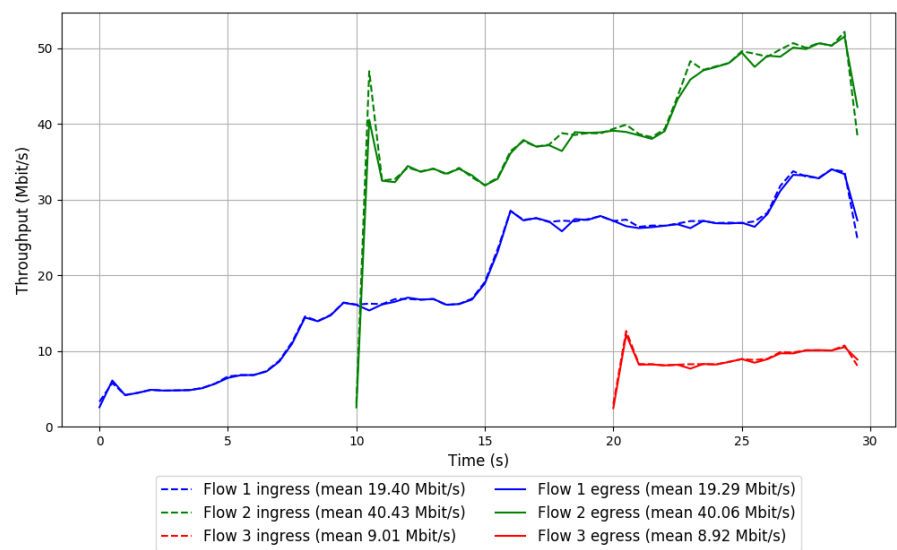
Average throughput: 8.92 Mbit/s

95th percentile per-packet one-way delay: 38.583 ms

Loss rate: 1.02%



Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-02-03 05:28:49

End at: 2018-02-03 05:29:19

Local clock offset: 1.094 ms

Remote clock offset: 0.54 ms

# Below is generated by plot.py at 2018-02-03 07:09:48

# Datalink statistics

-- Total of 3 flows:

Average throughput: 88.72 Mbit/s

95th percentile per-packet one-way delay: 59.799 ms

Loss rate: 2.23%

-- Flow 1:

Average throughput: 79.82 Mbit/s

95th percentile per-packet one-way delay: 59.059 ms

Loss rate: 2.18%

-- Flow 2:

Average throughput: 9.43 Mbit/s

95th percentile per-packet one-way delay: 62.507 ms

Loss rate: 2.24%

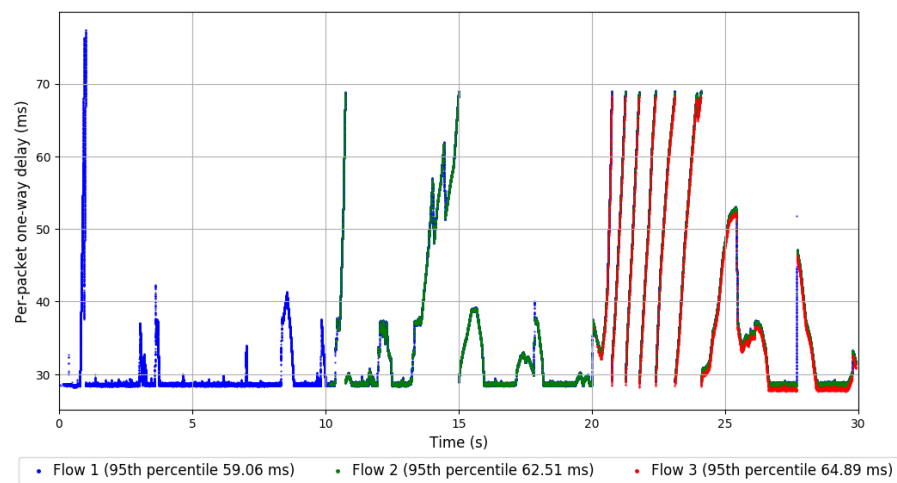
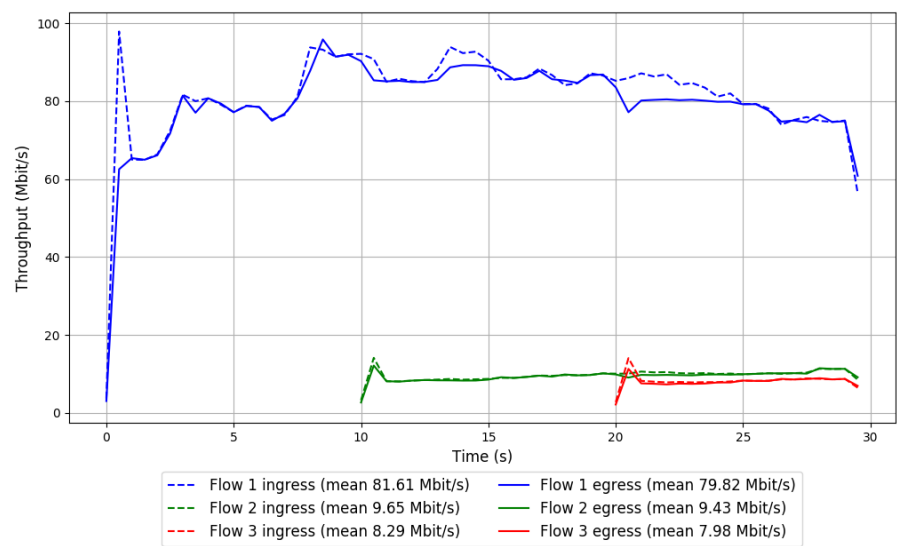
-- Flow 3:

Average throughput: 7.98 Mbit/s

95th percentile per-packet one-way delay: 64.885 ms

Loss rate: 3.73%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2018-02-03 05:55:35

End at: 2018-02-03 05:56:05

Local clock offset: 1.01 ms

Remote clock offset: 0.423 ms

# Below is generated by plot.py at 2018-02-03 07:10:22

# Datalink statistics

-- Total of 3 flows:

Average throughput: 86.20 Mbit/s

95th percentile per-packet one-way delay: 55.734 ms

Loss rate: 1.23%

-- Flow 1:

Average throughput: 76.80 Mbit/s

95th percentile per-packet one-way delay: 55.514 ms

Loss rate: 1.28%

-- Flow 2:

Average throughput: 9.60 Mbit/s

95th percentile per-packet one-way delay: 57.044 ms

Loss rate: 0.74%

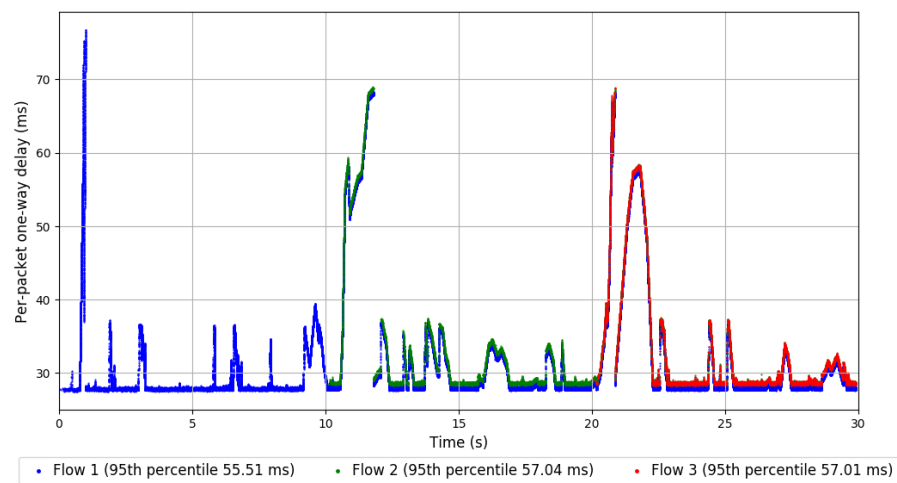
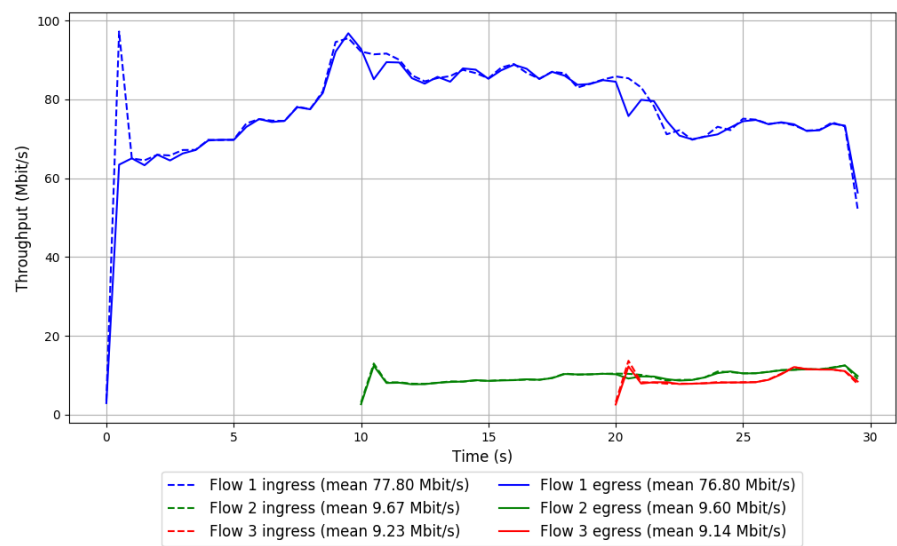
-- Flow 3:

Average throughput: 9.14 Mbit/s

95th percentile per-packet one-way delay: 57.013 ms

Loss rate: 1.00%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2018-02-03 06:21:27

End at: 2018-02-03 06:21:57

Local clock offset: 0.842 ms

Remote clock offset: 1.13 ms

# Below is generated by plot.py at 2018-02-03 07:10:32

# Datalink statistics

-- Total of 3 flows:

Average throughput: 90.39 Mbit/s

95th percentile per-packet one-way delay: 66.124 ms

Loss rate: 5.01%

-- Flow 1:

Average throughput: 80.42 Mbit/s

95th percentile per-packet one-way delay: 65.570 ms

Loss rate: 4.54%

-- Flow 2:

Average throughput: 7.96 Mbit/s

95th percentile per-packet one-way delay: 67.046 ms

Loss rate: 5.81%

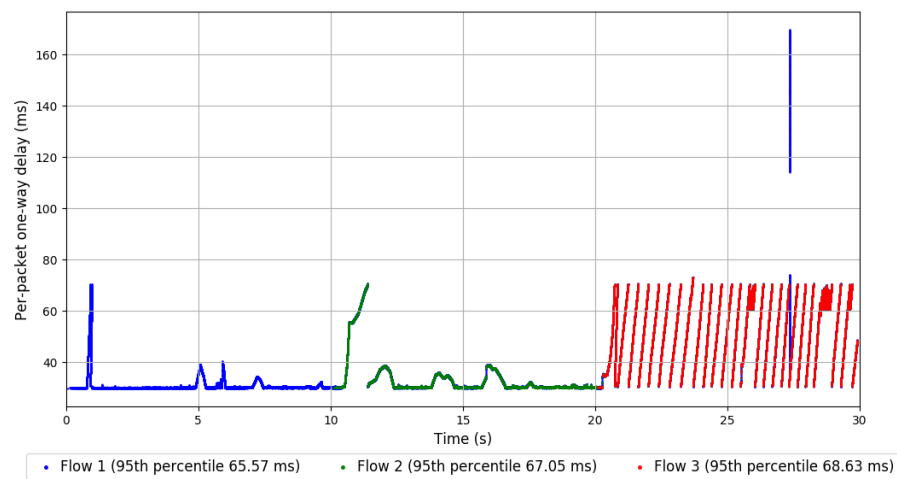
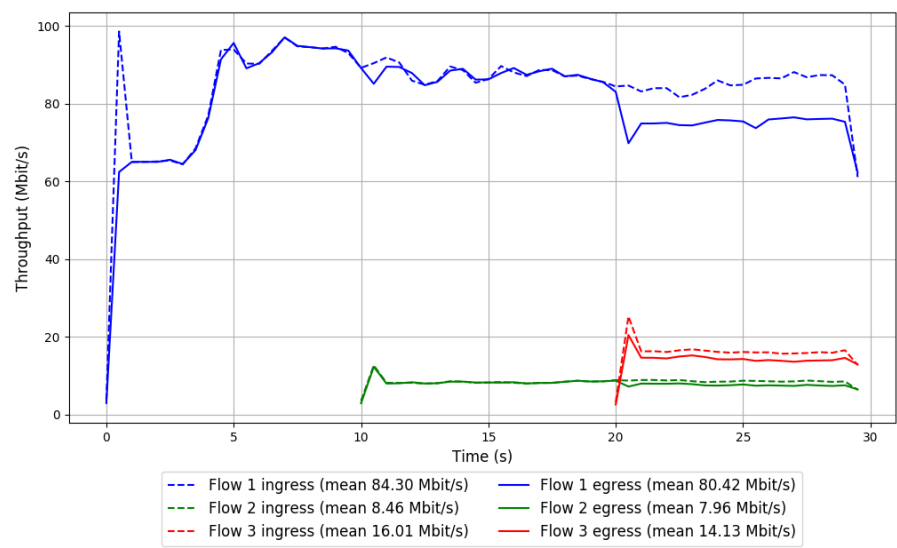
-- Flow 3:

Average throughput: 14.13 Mbit/s

95th percentile per-packet one-way delay: 68.629 ms

Loss rate: 11.60%

Run 10: Report of PCC — Data Link



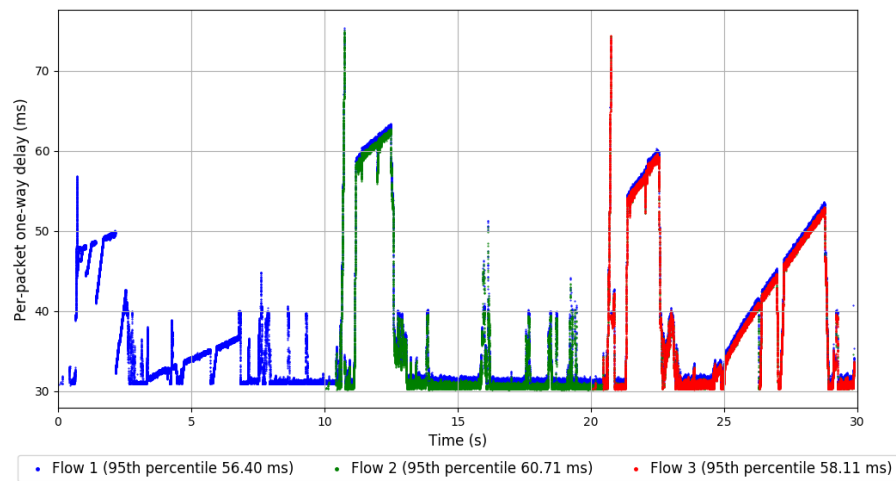
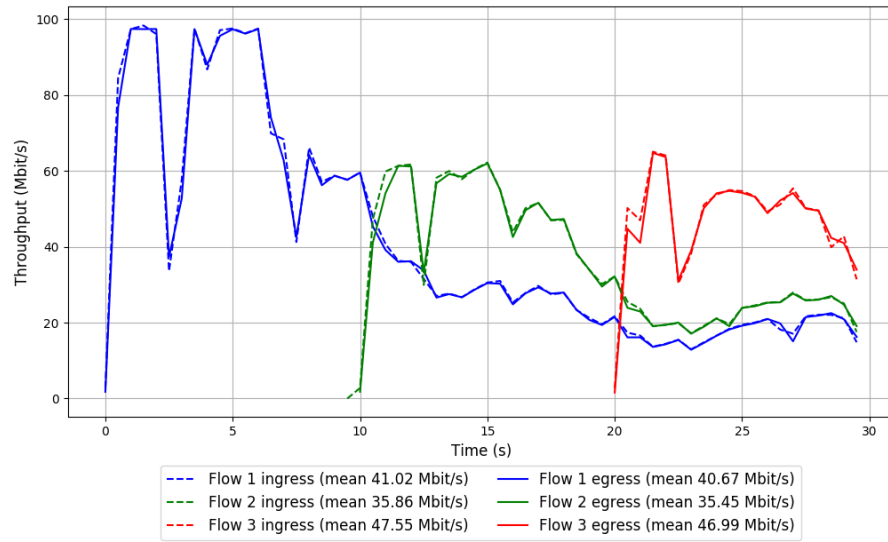
```
Run 1: Statistics of QUIC Cubic

Start at: 2018-02-03 02:19:30
End at: 2018-02-03 02:20:00
Local clock offset: 1.065 ms
Remote clock offset: 1.667 ms

# Below is generated by plot.py at 2018-02-03 07:10:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 79.73 Mbit/s
95th percentile per-packet one-way delay: 59.103 ms
Loss rate: 0.99%
-- Flow 1:
Average throughput: 40.67 Mbit/s
95th percentile per-packet one-way delay: 56.396 ms
Loss rate: 0.84%
-- Flow 2:
Average throughput: 35.45 Mbit/s
95th percentile per-packet one-way delay: 60.709 ms
Loss rate: 1.14%
-- Flow 3:
Average throughput: 46.99 Mbit/s
95th percentile per-packet one-way delay: 58.112 ms
Loss rate: 1.14%
```



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



Run 2: Statistics of QUIC Cubic

Start at: 2018-02-03 02:44:45

End at: 2018-02-03 02:45:15

Local clock offset: 1.06 ms

Remote clock offset: 0.579 ms

# Below is generated by plot.py at 2018-02-03 07:10:32

# Datalink statistics

-- Total of 3 flows:

Average throughput: 82.99 Mbit/s

95th percentile per-packet one-way delay: 60.473 ms

Loss rate: 0.99%

-- Flow 1:

Average throughput: 53.84 Mbit/s

95th percentile per-packet one-way delay: 61.106 ms

Loss rate: 1.31%

-- Flow 2:

Average throughput: 26.72 Mbit/s

95th percentile per-packet one-way delay: 60.888 ms

Loss rate: 0.28%

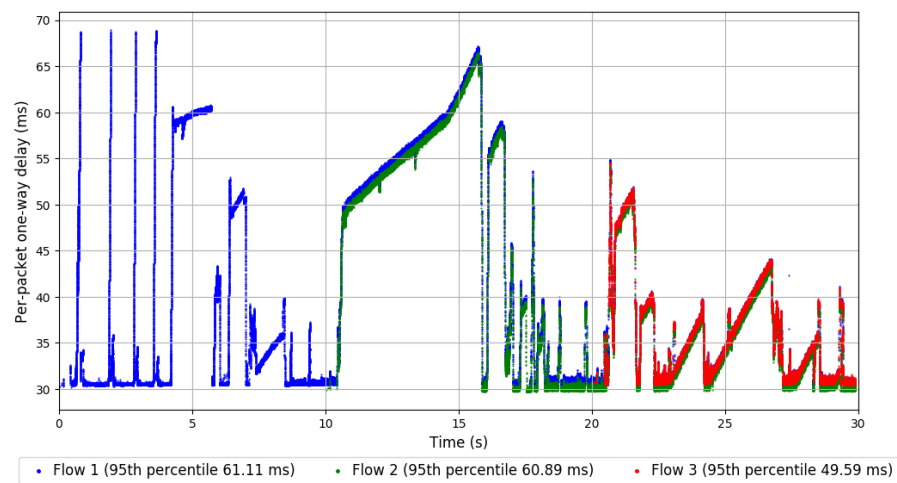
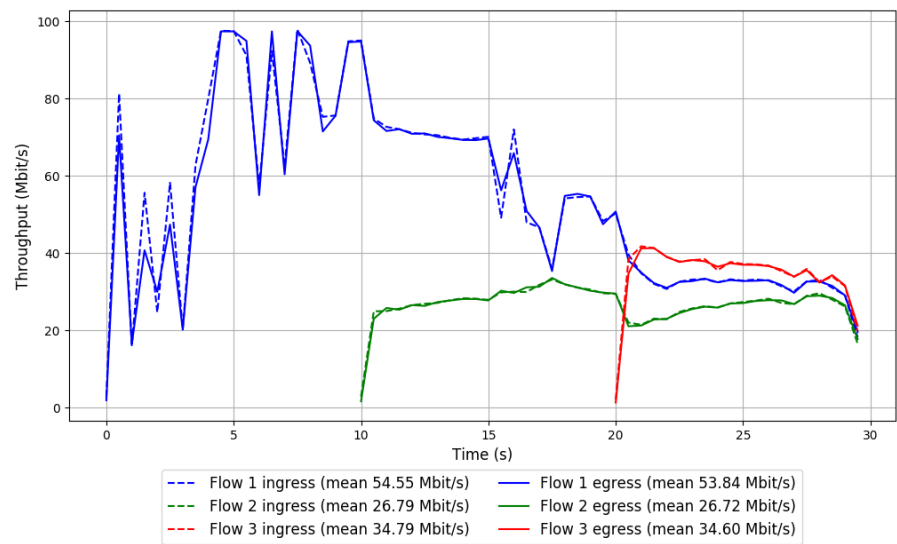
-- Flow 3:

Average throughput: 34.60 Mbit/s

95th percentile per-packet one-way delay: 49.591 ms

Loss rate: 0.55%

Run 2: Report of QUIC Cubic — Data Link

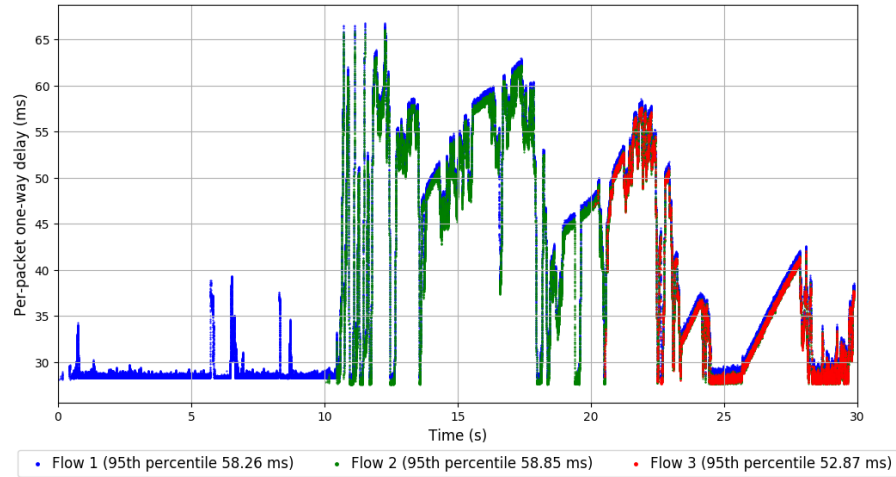
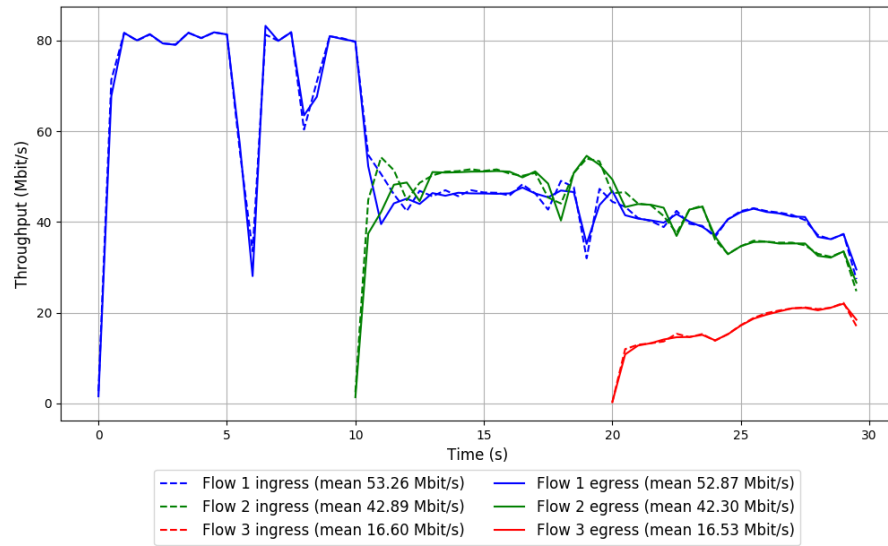


Run 3: Statistics of QUIC Cubic

Start at: 2018-02-03 03:10:30  
End at: 2018-02-03 03:11:00  
Local clock offset: 1.305 ms  
Remote clock offset: -3.072 ms

# Below is generated by plot.py at 2018-02-03 07:10:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 86.43 Mbit/s  
95th percentile per-packet one-way delay: 58.390 ms  
Loss rate: 0.89%  
-- Flow 1:  
Average throughput: 52.87 Mbit/s  
95th percentile per-packet one-way delay: 58.257 ms  
Loss rate: 0.69%  
-- Flow 2:  
Average throughput: 42.30 Mbit/s  
95th percentile per-packet one-way delay: 58.846 ms  
Loss rate: 1.33%  
-- Flow 3:  
Average throughput: 16.53 Mbit/s  
95th percentile per-packet one-way delay: 52.867 ms  
Loss rate: 0.49%

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

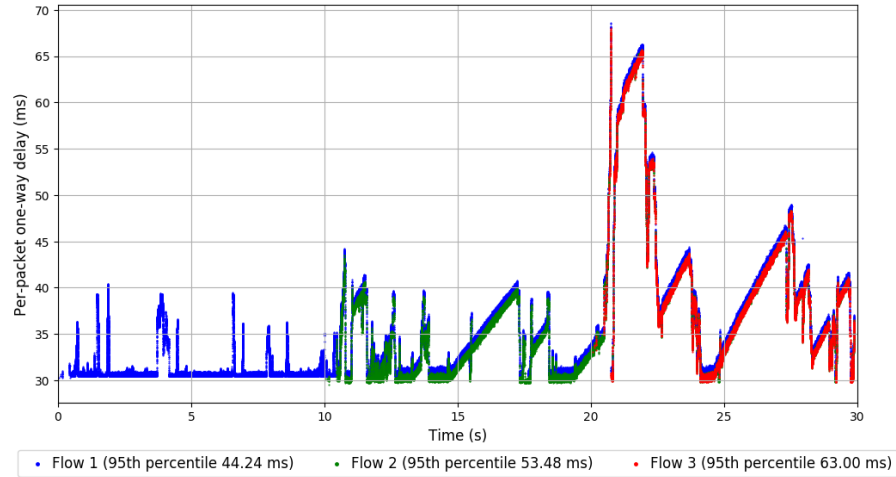
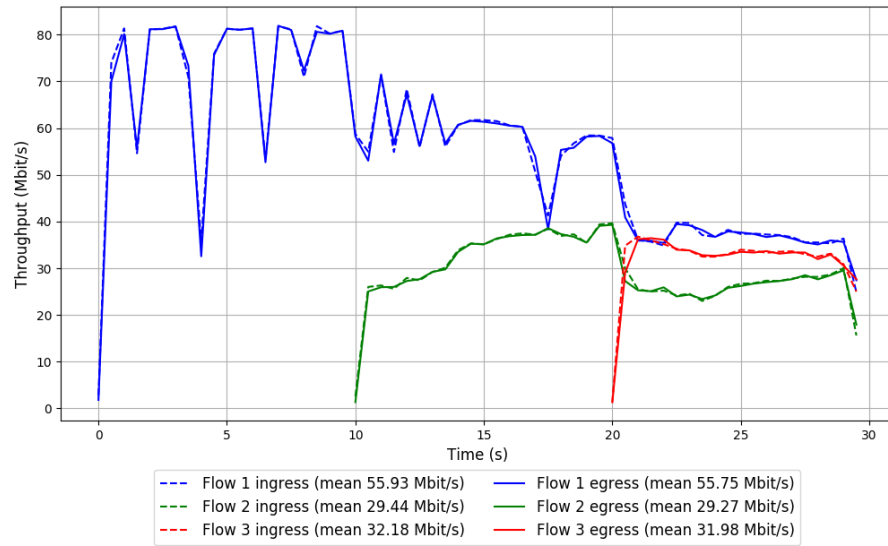


Run 4: Statistics of QUIC Cubic

Start at: 2018-02-03 03:36:51  
End at: 2018-02-03 03:37:21  
Local clock offset: 1.299 ms  
Remote clock offset: -1.889 ms

# Below is generated by plot.py at 2018-02-03 07:11:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 85.73 Mbit/s  
95th percentile per-packet one-way delay: 53.205 ms  
Loss rate: 0.40%  
-- Flow 1:  
Average throughput: 55.75 Mbit/s  
95th percentile per-packet one-way delay: 44.239 ms  
Loss rate: 0.31%  
-- Flow 2:  
Average throughput: 29.27 Mbit/s  
95th percentile per-packet one-way delay: 53.483 ms  
Loss rate: 0.54%  
-- Flow 3:  
Average throughput: 31.98 Mbit/s  
95th percentile per-packet one-way delay: 63.003 ms  
Loss rate: 0.61%

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



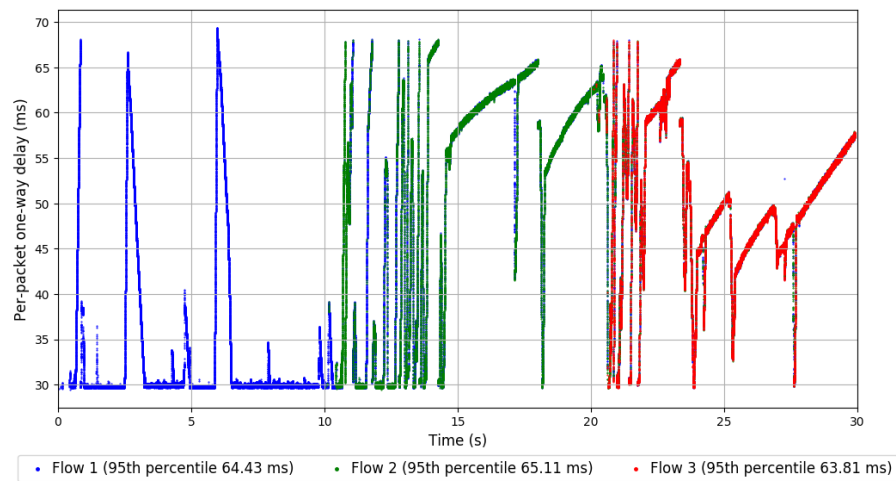
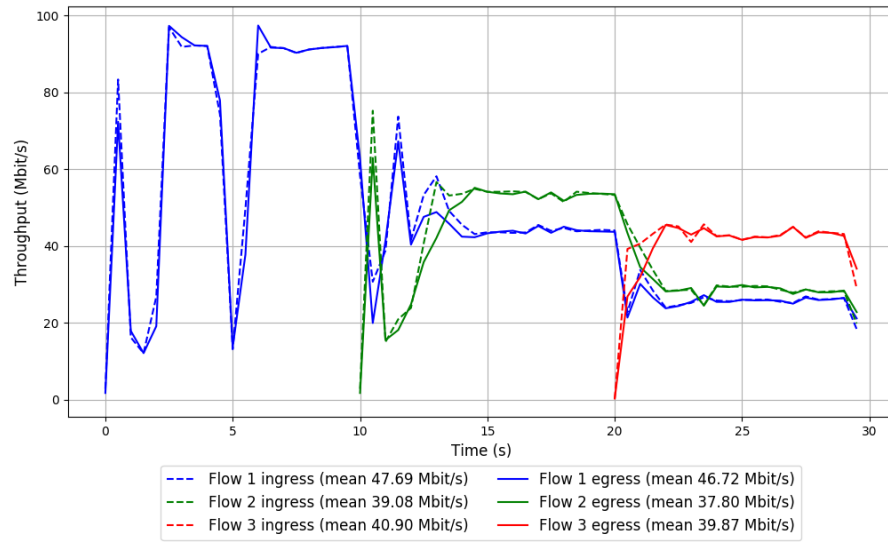
Run 5: Statistics of QUIC Cubic

Start at: 2018-02-03 04:02:00  
End at: 2018-02-03 04:02:30  
Local clock offset: 1.375 ms  
Remote clock offset: -1.069 ms

# Below is generated by plot.py at 2018-02-03 07:11:14  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 84.93 Mbit/s  
95th percentile per-packet one-way delay: 64.670 ms  
Loss rate: 2.39%  
-- Flow 1:  
Average throughput: 46.72 Mbit/s  
95th percentile per-packet one-way delay: 64.427 ms  
Loss rate: 1.94%  
-- Flow 2:  
Average throughput: 37.80 Mbit/s  
95th percentile per-packet one-way delay: 65.105 ms  
Loss rate: 3.12%  
-- Flow 3:  
Average throughput: 39.87 Mbit/s  
95th percentile per-packet one-way delay: 63.806 ms  
Loss rate: 2.59%



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



Run 6: Statistics of QUIC Cubic

Start at: 2018-02-03 04:27:11

End at: 2018-02-03 04:27:41

Local clock offset: 1.392 ms

Remote clock offset: 0.38 ms

# Below is generated by plot.py at 2018-02-03 07:11:17

# Datalink statistics

-- Total of 3 flows:

Average throughput: 85.21 Mbit/s

95th percentile per-packet one-way delay: 63.839 ms

Loss rate: 1.16%

-- Flow 1:

Average throughput: 60.42 Mbit/s

95th percentile per-packet one-way delay: 63.731 ms

Loss rate: 1.32%

-- Flow 2:

Average throughput: 20.98 Mbit/s

95th percentile per-packet one-way delay: 63.813 ms

Loss rate: 0.50%

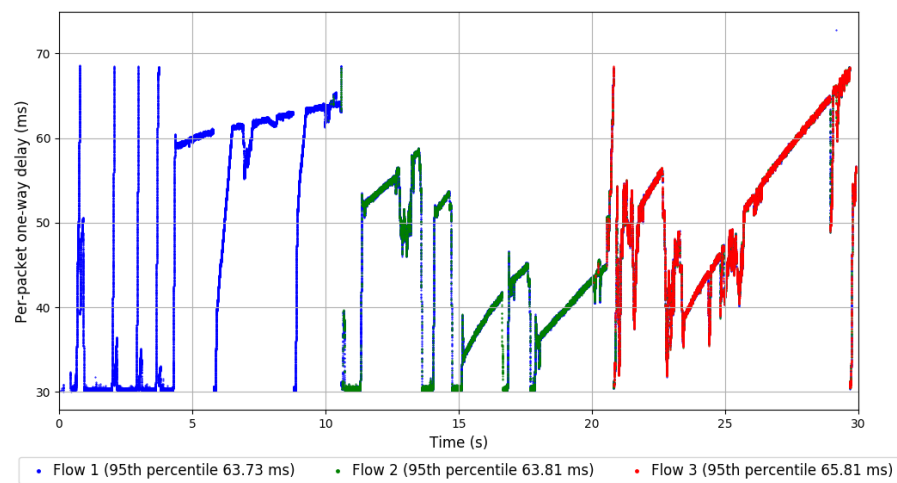
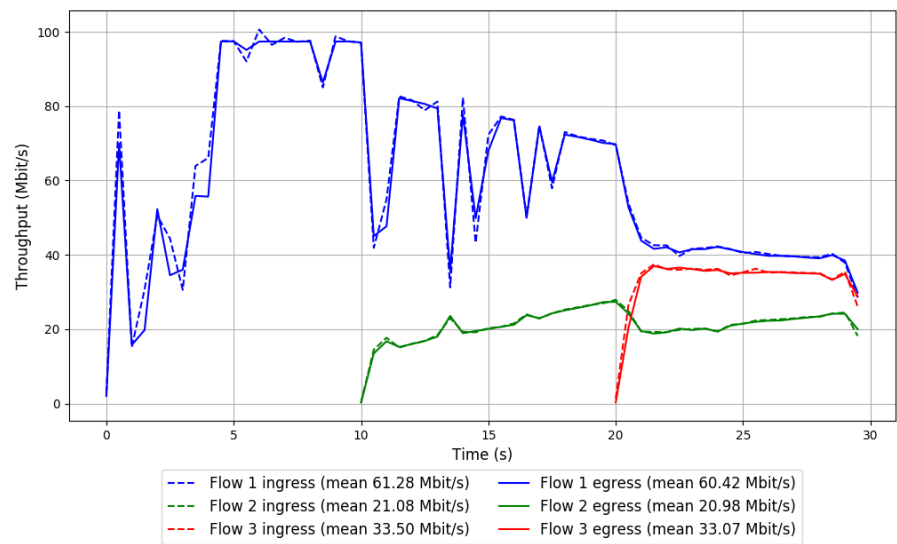
-- Flow 3:

Average throughput: 33.07 Mbit/s

95th percentile per-packet one-way delay: 65.808 ms

Loss rate: 1.15%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-02-03 04:53:19

End at: 2018-02-03 04:53:49

Local clock offset: 1.333 ms

Remote clock offset: 1.188 ms

# Below is generated by plot.py at 2018-02-03 07:12:02

# Datalink statistics

-- Total of 3 flows:

Average throughput: 84.75 Mbit/s

95th percentile per-packet one-way delay: 65.046 ms

Loss rate: 1.56%

-- Flow 1:

Average throughput: 51.54 Mbit/s

95th percentile per-packet one-way delay: 64.285 ms

Loss rate: 1.83%

-- Flow 2:

Average throughput: 34.80 Mbit/s

95th percentile per-packet one-way delay: 65.661 ms

Loss rate: 0.90%

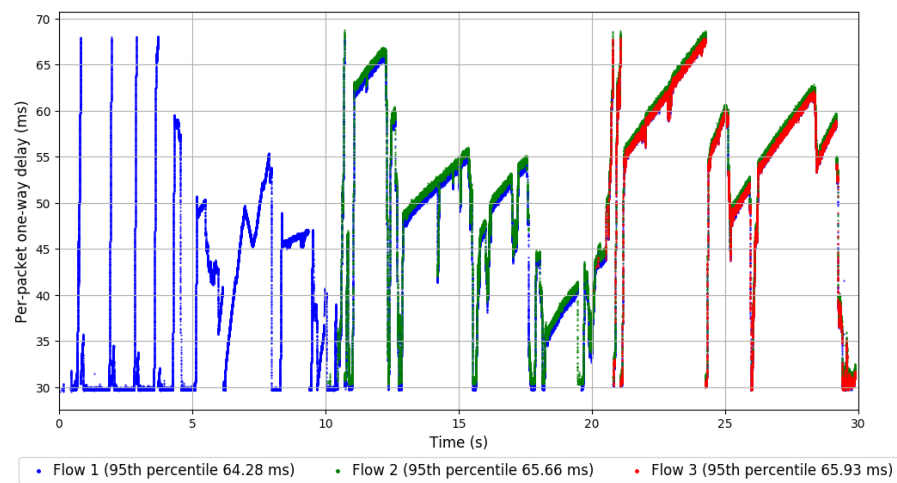
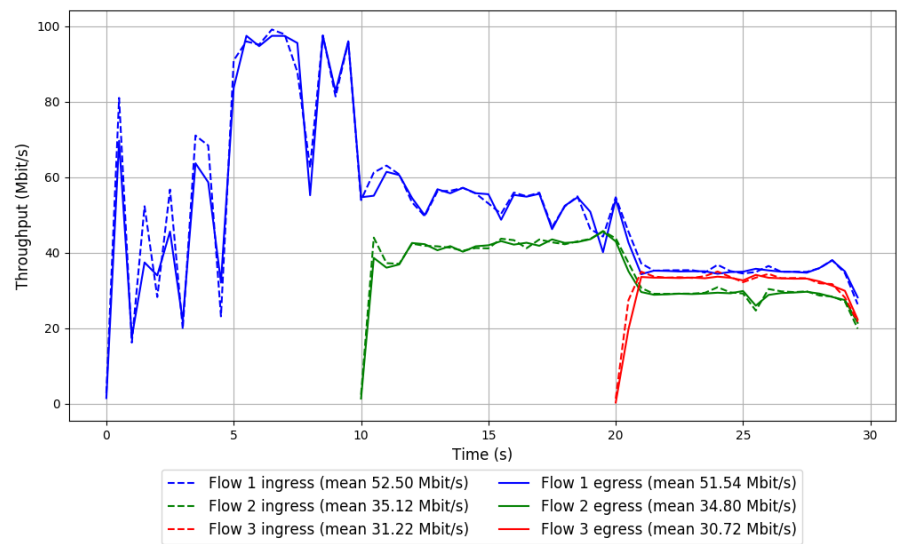
-- Flow 3:

Average throughput: 30.72 Mbit/s

95th percentile per-packet one-way delay: 65.929 ms

Loss rate: 1.68%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-02-03 05:19:44

End at: 2018-02-03 05:20:14

Local clock offset: 1.041 ms

Remote clock offset: 2.621 ms

# Below is generated by plot.py at 2018-02-03 07:12:02

# Datalink statistics

-- Total of 3 flows:

Average throughput: 72.40 Mbit/s

95th percentile per-packet one-way delay: 66.971 ms

Loss rate: 0.59%

-- Flow 1:

Average throughput: 46.97 Mbit/s

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

Loss rate: 0.52%

-- Flow 2:

Average throughput: 27.71 Mbit/s

95th percentile per-packet one-way delay: 58.701 ms

Loss rate: 0.56%

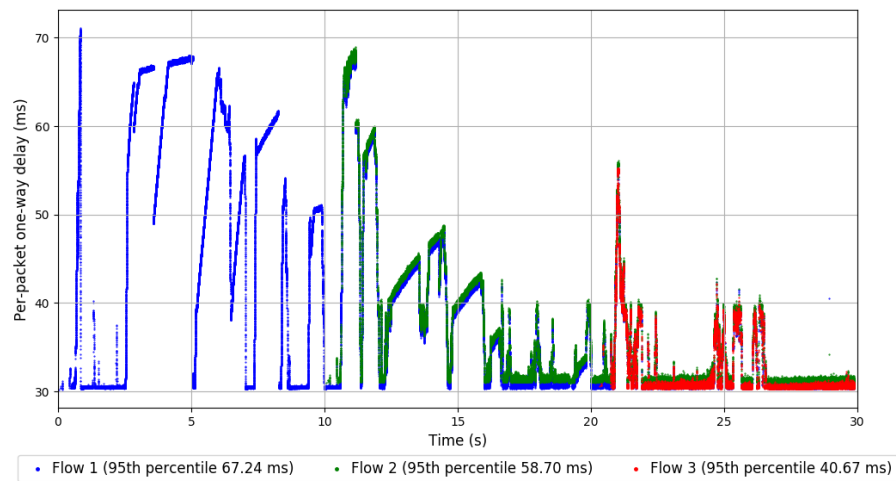
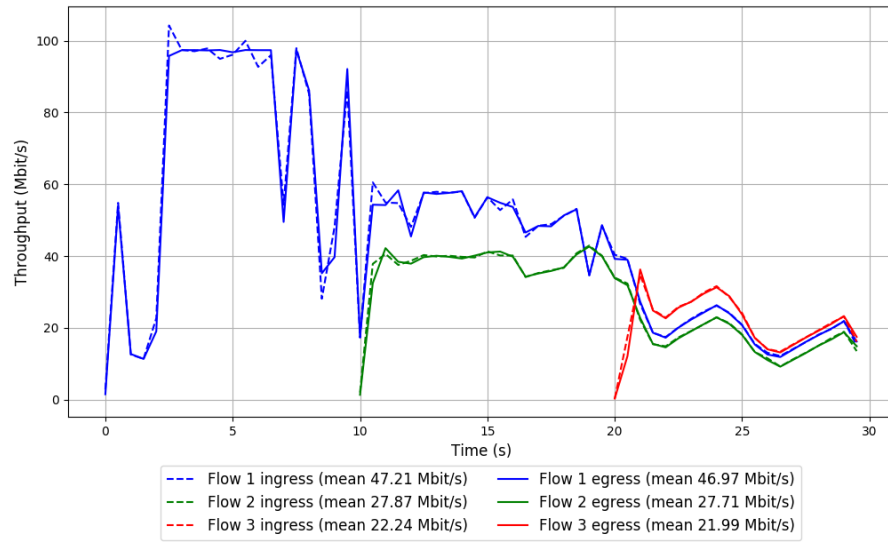
-- Flow 3:

Average throughput: 21.99 Mbit/s

95th percentile per-packet one-way delay: 40.671 ms

Loss rate: 1.13%

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



Run 9: Statistics of QUIC Cubic

Start at: 2018-02-03 05:46:43

End at: 2018-02-03 05:47:13

Local clock offset: 0.943 ms

Remote clock offset: 2.641 ms

# Below is generated by plot.py at 2018-02-03 07:12:02

# Datalink statistics

-- Total of 3 flows:

Average throughput: 70.01 Mbit/s

95th percentile per-packet one-way delay: 61.780 ms

Loss rate: 1.37%

-- Flow 1:

Average throughput: 42.19 Mbit/s

95th percentile per-packet one-way delay: 62.579 ms

Loss rate: 1.47%

-- Flow 2:

Average throughput: 20.85 Mbit/s

95th percentile per-packet one-way delay: 59.845 ms

Loss rate: 0.94%

-- Flow 3:

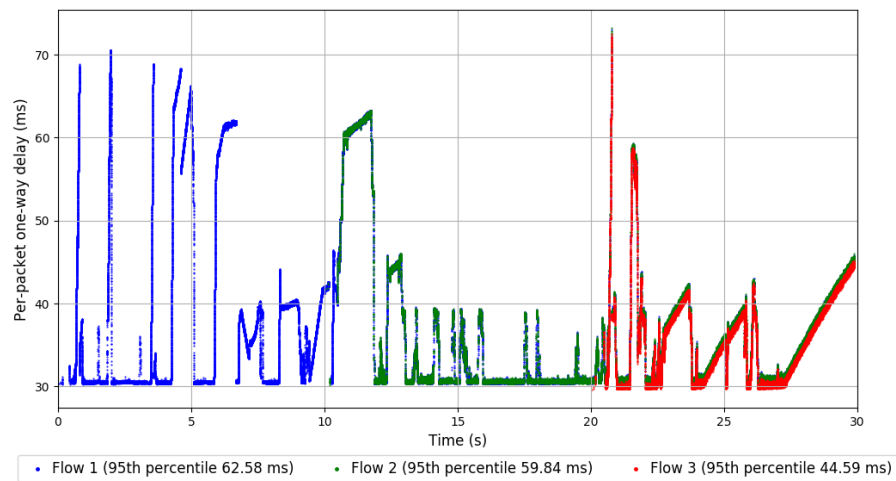
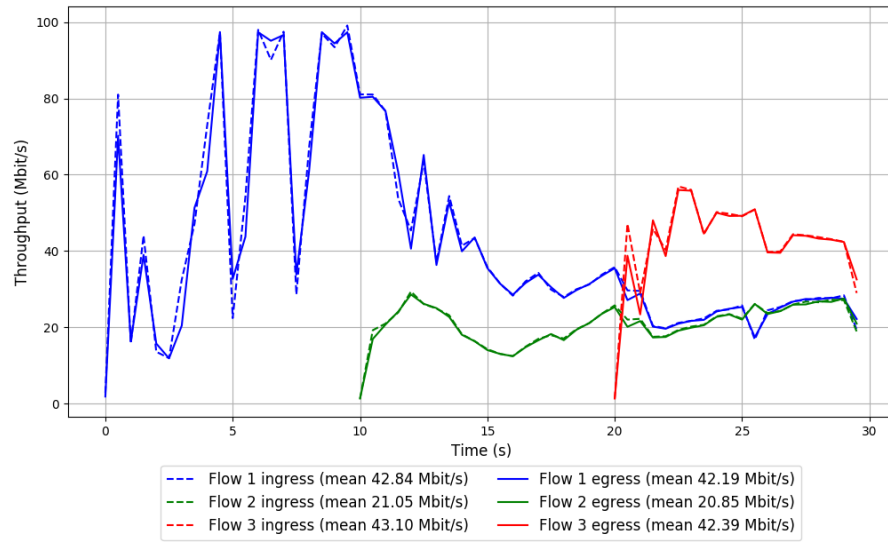
Average throughput: 42.39 Mbit/s

95th percentile per-packet one-way delay: 44.585 ms

Loss rate: 1.50%



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



Run 10: Statistics of QUIC Cubic

Start at: 2018-02-03 06:12:49

End at: 2018-02-03 06:13:19

Local clock offset: 0.915 ms

Remote clock offset: 1.727 ms

# Below is generated by plot.py at 2018-02-03 07:12:02

# Datalink statistics

-- Total of 3 flows:

Average throughput: 74.04 Mbit/s

95th percentile per-packet one-way delay: 60.370 ms

Loss rate: 1.30%

-- Flow 1:

Average throughput: 43.08 Mbit/s

95th percentile per-packet one-way delay: 59.475 ms

Loss rate: 1.74%

-- Flow 2:

Average throughput: 20.69 Mbit/s

95th percentile per-packet one-way delay: 59.968 ms

Loss rate: 0.52%

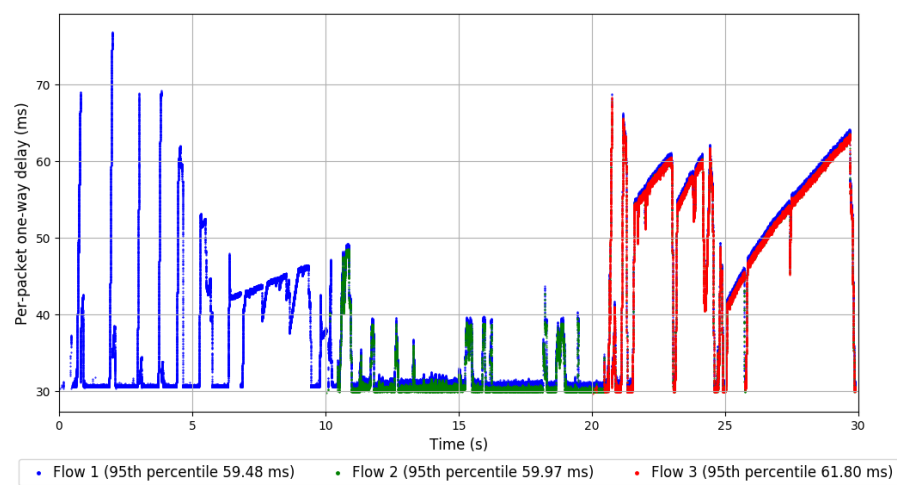
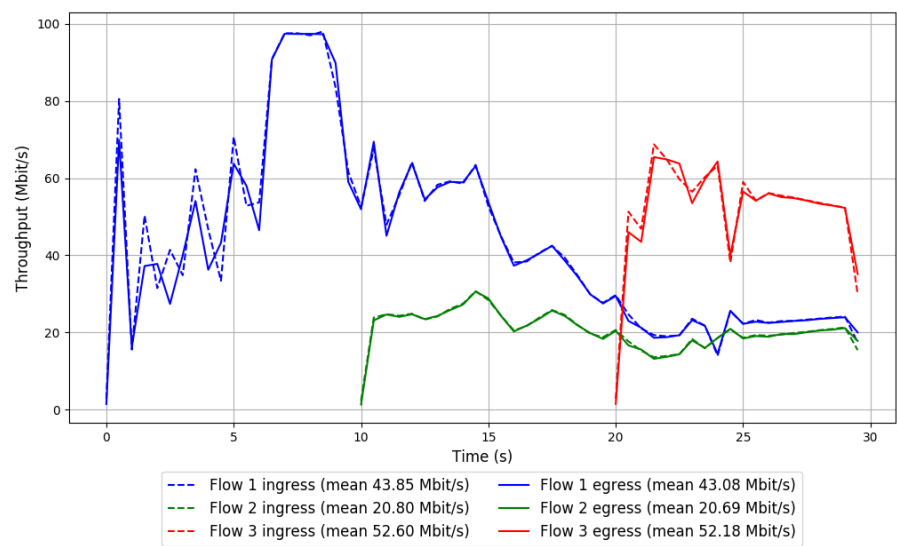
-- Flow 3:

Average throughput: 52.18 Mbit/s

95th percentile per-packet one-way delay: 61.802 ms

Loss rate: 0.79%

Run 10: Report of QUIC Cubic — Data Link

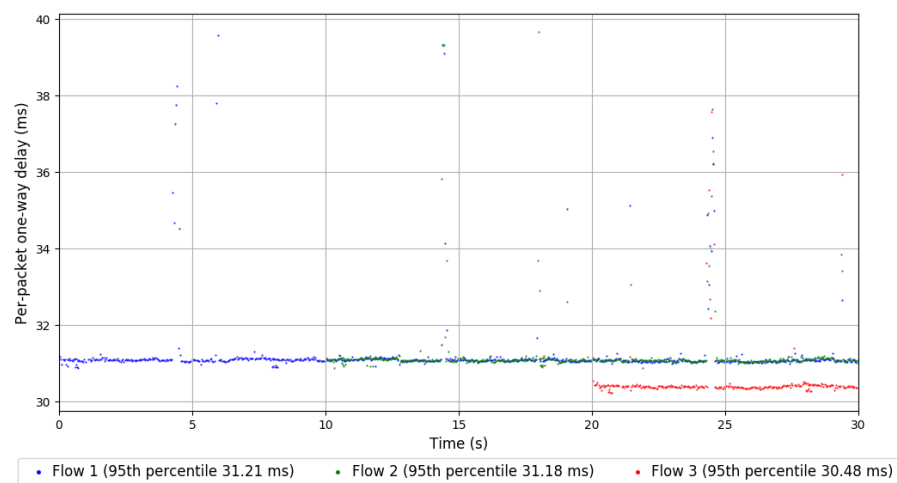
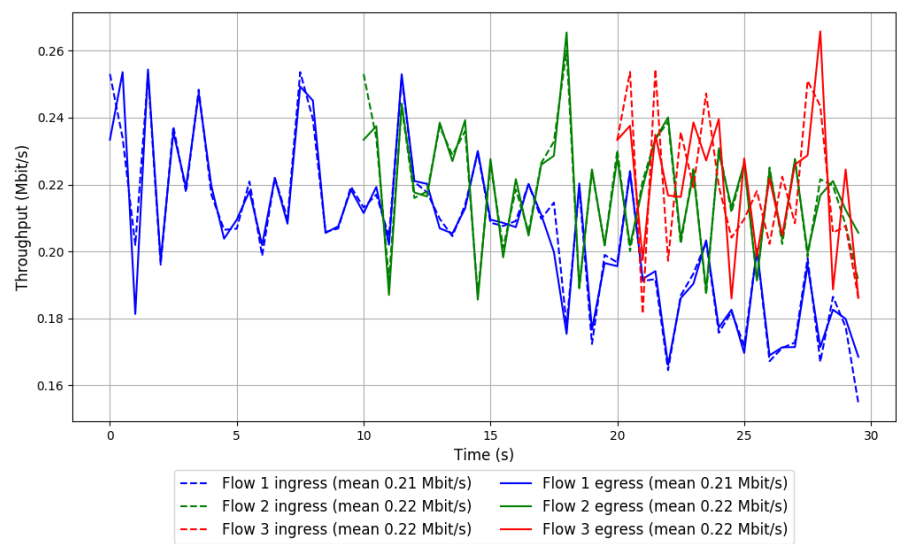


```
Run 1: Statistics of SReAM

Start at: 2018-02-03 02:32:00
End at: 2018-02-03 02:32:30
Local clock offset: 1.091 ms
Remote clock offset: 1.66 ms

# Below is generated by plot.py at 2018-02-03 07:12:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 31.184 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 31.215 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 31.183 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 30.484 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SReAM

Start at: 2018-02-03 02:57:07

End at: 2018-02-03 02:57:37

Local clock offset: 1.211 ms

Remote clock offset: 0.099 ms

# Below is generated by plot.py at 2018-02-03 07:12:02

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 30.671 ms

Loss rate: 0.36%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 30.020 ms

Loss rate: 0.15%

-- Flow 2:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 30.014 ms

Loss rate: 0.45%

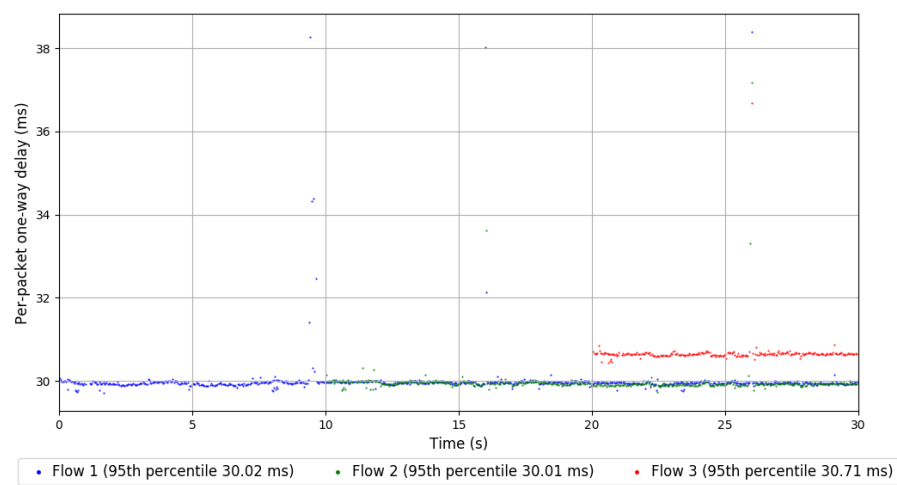
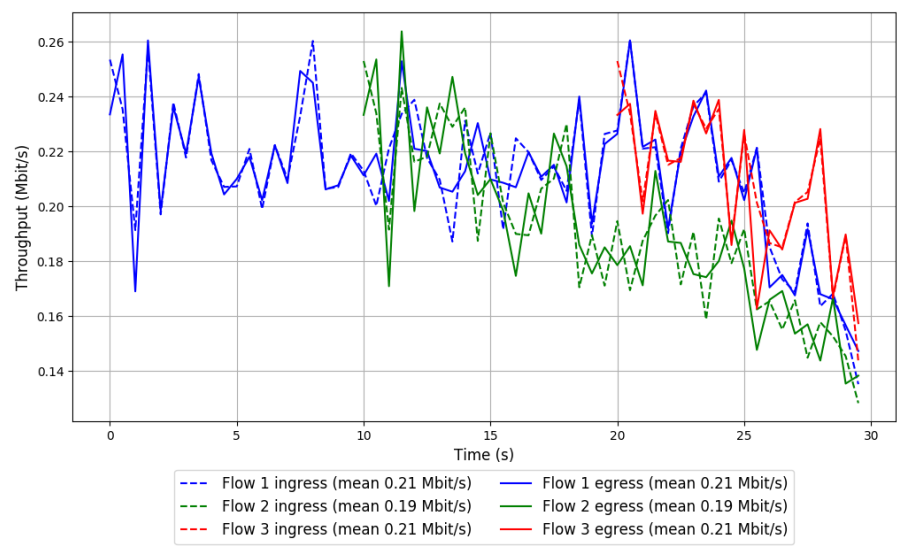
-- Flow 3:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 30.706 ms

Loss rate: 0.86%

Run 2: Report of SReAM — Data Link



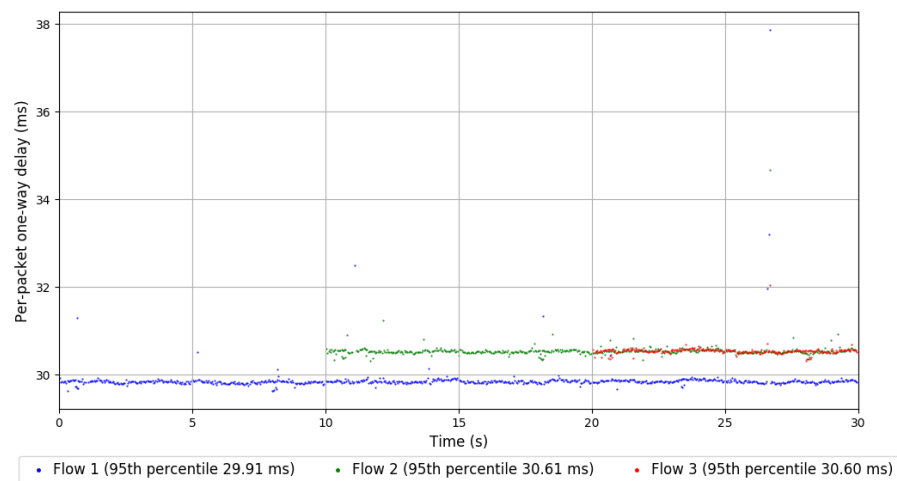
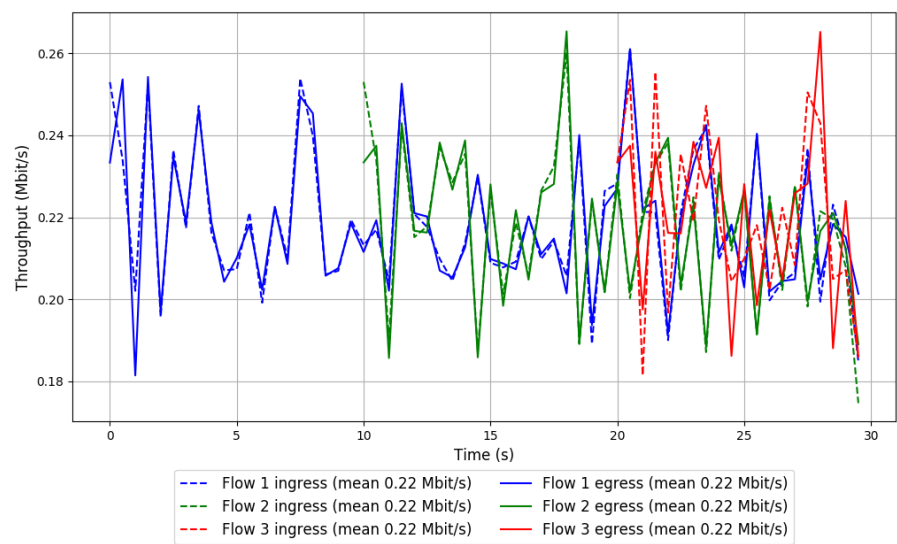
Run 3: Statistics of SReAM

Start at: 2018-02-03 03:23:47  
End at: 2018-02-03 03:24:17  
Local clock offset: 1.344 ms  
Remote clock offset: -1.707 ms

# Below is generated by plot.py at 2018-02-03 07:12:02  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.44 Mbit/s  
95th percentile per-packet one-way delay: 30.581 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 29.907 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 30.613 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 30.602 ms  
Loss rate: 0.00%



Run 3: Report of SReAM — Data Link

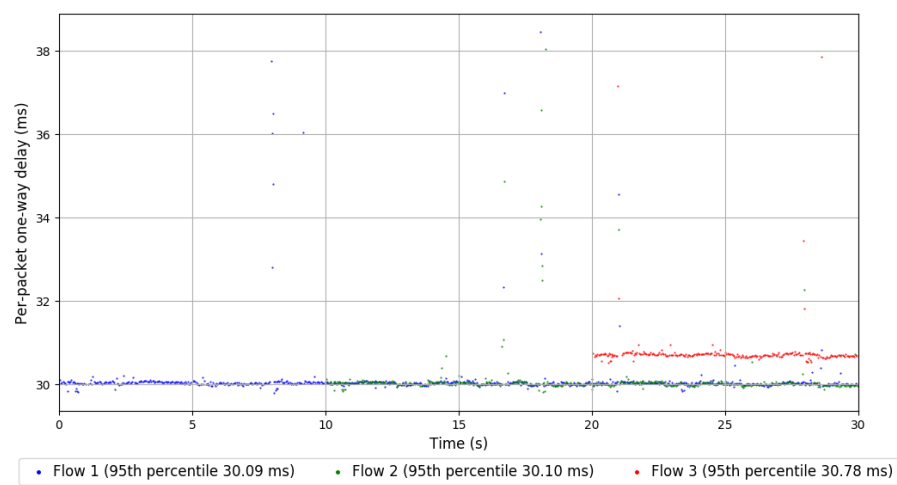
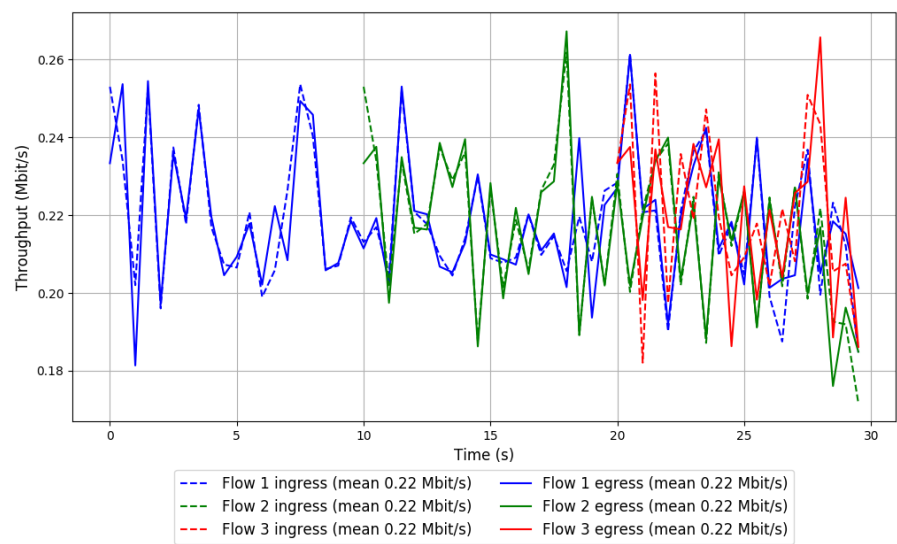


Run 4: Statistics of SReAM

Start at: 2018-02-03 03:49:22  
End at: 2018-02-03 03:49:52  
Local clock offset: 1.257 ms  
Remote clock offset: -1.488 ms

# Below is generated by plot.py at 2018-02-03 07:12:02  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.44 Mbit/s  
95th percentile per-packet one-way delay: 30.733 ms  
Loss rate: 0.07%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 30.092 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 30.104 ms  
Loss rate: 0.22%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 30.780 ms  
Loss rate: 0.00%

Run 4: Report of SReAM — Data Link

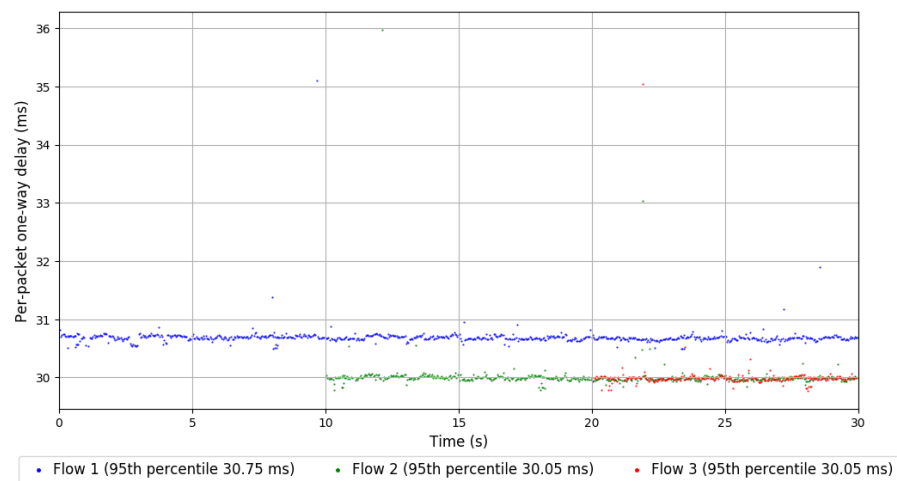
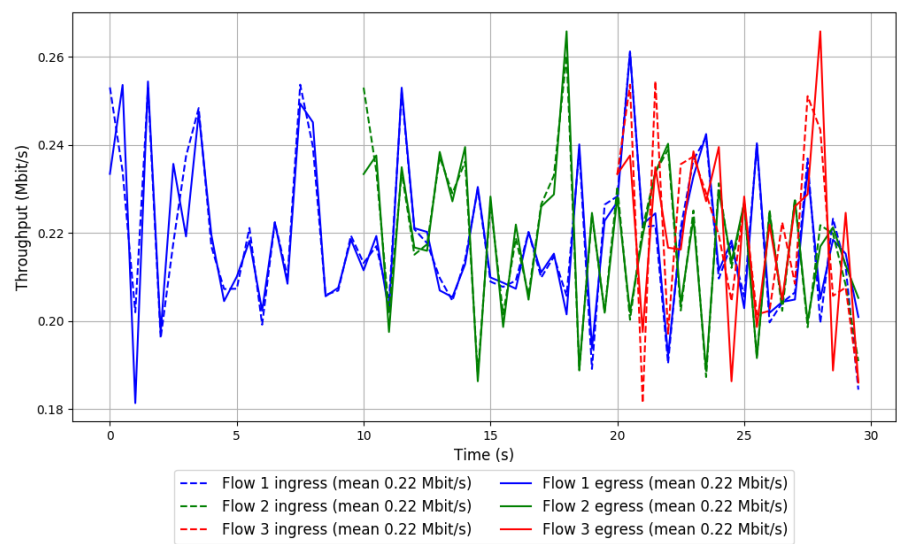


Run 5: Statistics of SReAM

Start at: 2018-02-03 04:14:26  
End at: 2018-02-03 04:14:56  
Local clock offset: 1.302 ms  
Remote clock offset: -0.372 ms

# Below is generated by plot.py at 2018-02-03 07:12:02  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.44 Mbit/s  
95th percentile per-packet one-way delay: 30.732 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 30.747 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 30.055 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 30.050 ms  
Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SReAM

Start at: 2018-02-03 04:40:01

End at: 2018-02-03 04:40:31

Local clock offset: 1.286 ms

Remote clock offset: 1.188 ms

# Below is generated by plot.py at 2018-02-03 07:12:02

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 31.139 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 31.162 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 30.488 ms

Loss rate: 0.00%

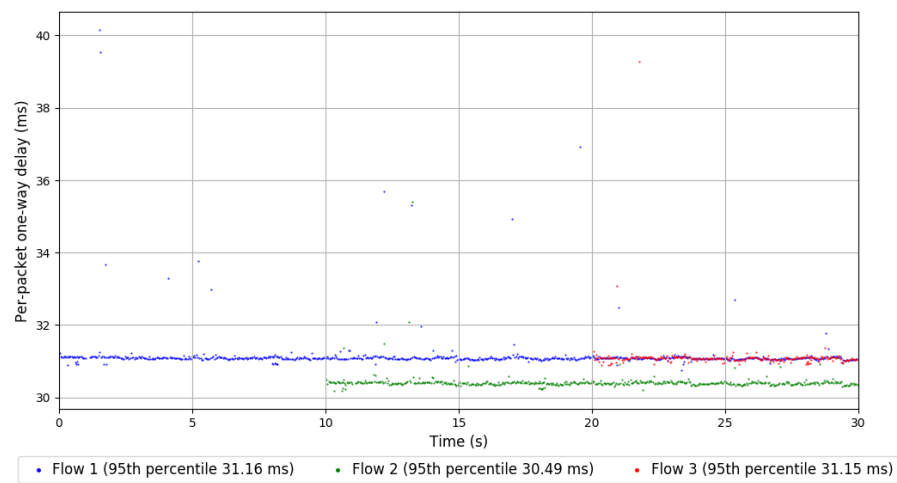
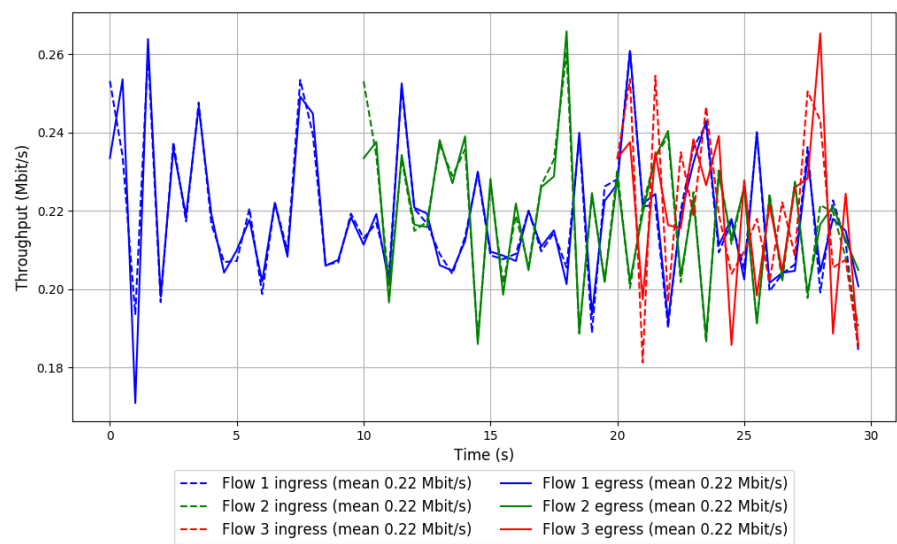
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 31.149 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SReAM

Start at: 2018-02-03 05:06:01

End at: 2018-02-03 05:06:31

Local clock offset: 1.234 ms

Remote clock offset: 2.035 ms

# Below is generated by plot.py at 2018-02-03 07:12:02

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 31.114 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 31.111 ms

Loss rate: 0.18%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 31.132 ms

Loss rate: 0.00%

-- Flow 3:

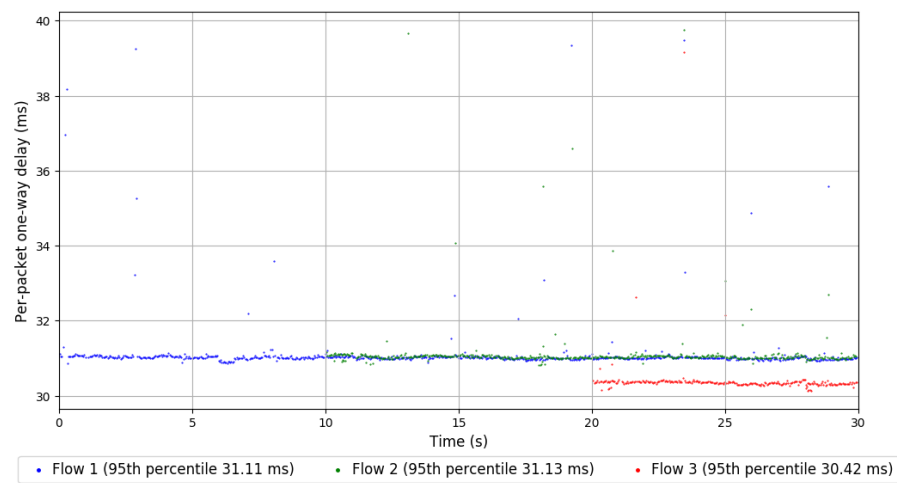
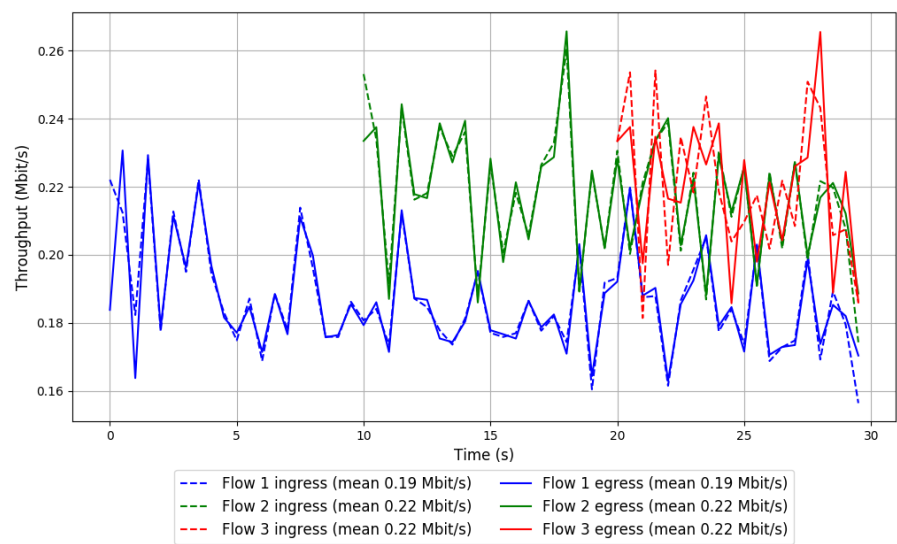
Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 30.417 ms

Loss rate: 0.00%



Run 7: Report of SReAM — Data Link



Run 8: Statistics of SReAM

Start at: 2018-02-03 05:33:13

End at: 2018-02-03 05:33:44

Local clock offset: 1.069 ms

Remote clock offset: 3.204 ms

# Below is generated by plot.py at 2018-02-03 07:12:02

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 30.951 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 30.327 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 30.366 ms

Loss rate: 0.00%

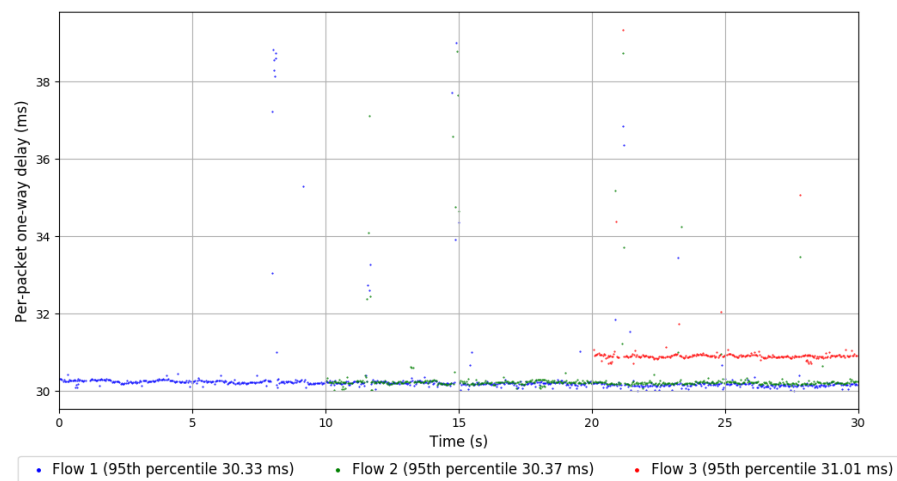
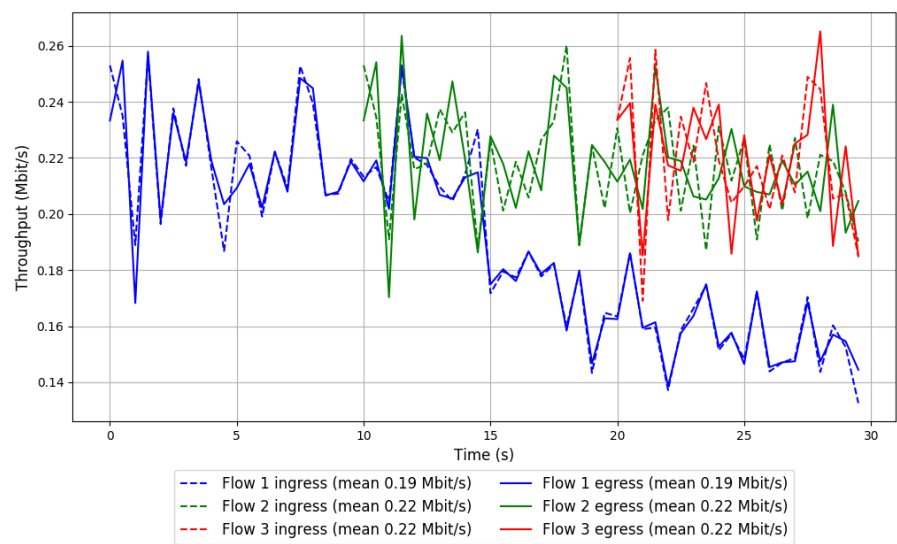
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 31.012 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SReAM

Start at: 2018-02-03 05:59:46

End at: 2018-02-03 06:00:16

Local clock offset: 1.014 ms

Remote clock offset: 2.415 ms

# Below is generated by plot.py at 2018-02-03 07:12:02

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.41 Mbit/s

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

Loss rate: 0.07%

-- Flow 1:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 30.865 ms

Loss rate: 0.16%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 32.318 ms

Loss rate: 0.00%

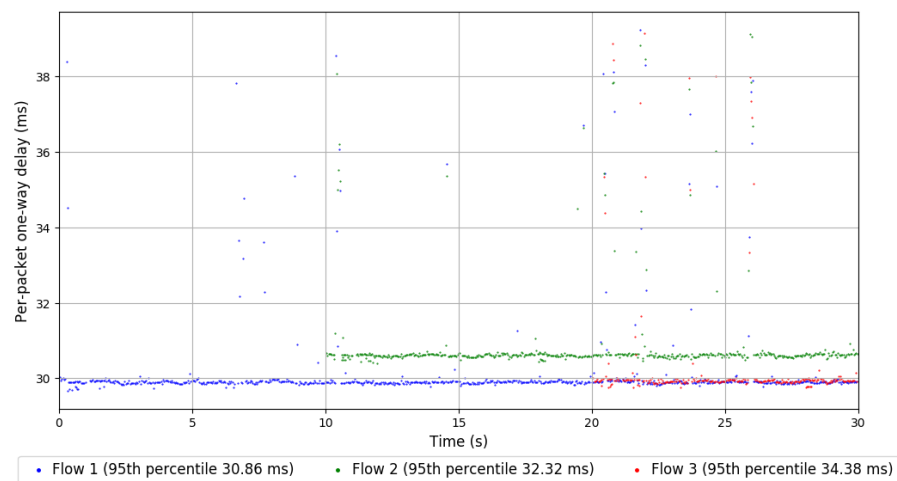
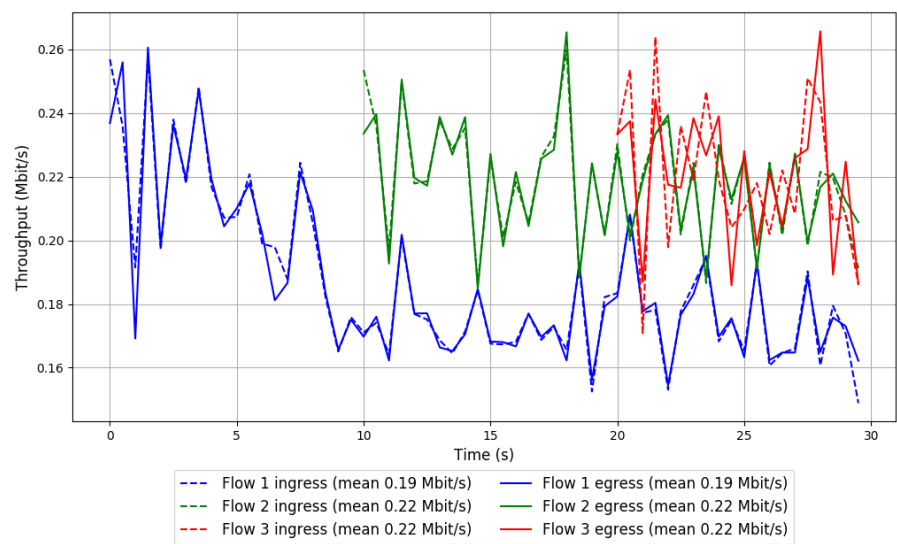
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 34.379 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SCReAM

Start at: 2018-02-03 06:25:34

End at: 2018-02-03 06:26:04

Local clock offset: 0.898 ms

Remote clock offset: 0.688 ms

# Below is generated by plot.py at 2018-02-03 07:12:02

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 29.900 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 29.892 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 29.911 ms

Loss rate: 0.00%

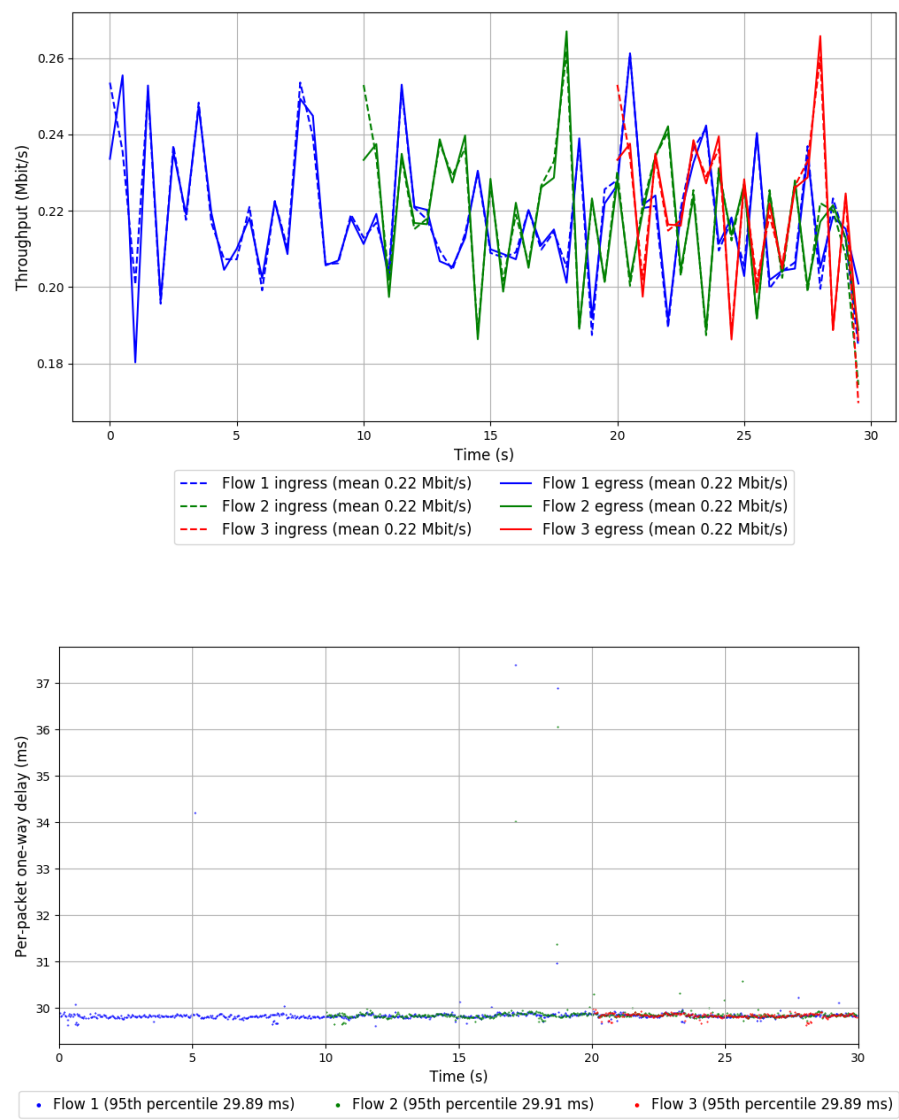
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 29.894 ms

Loss rate: 0.00%

Run 10: Report of SReAM — Data Link



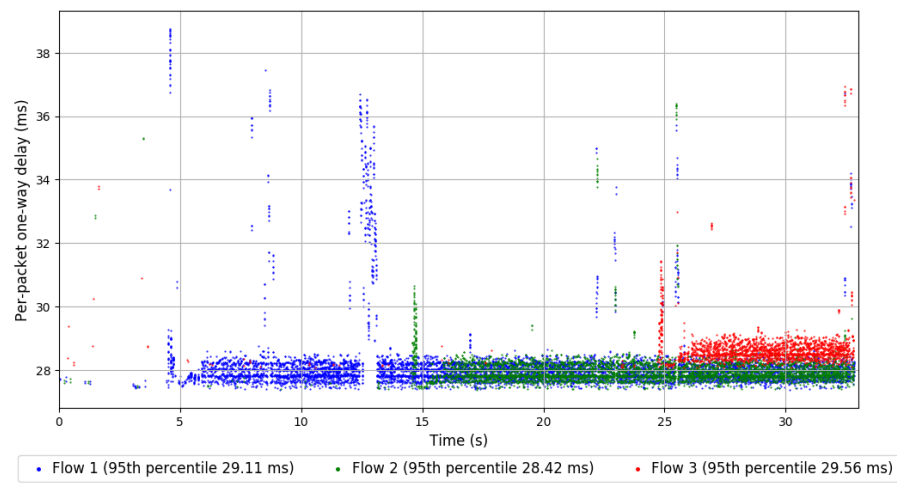
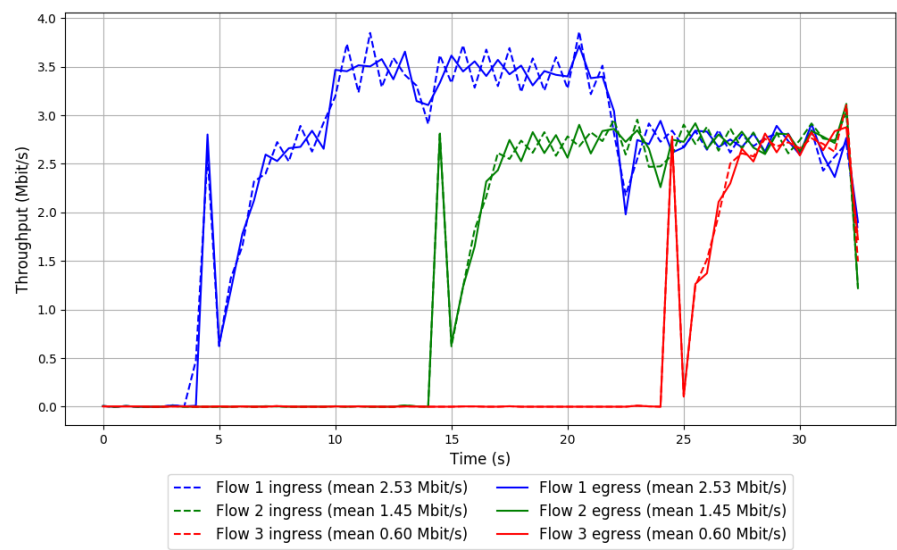
Run 1: Statistics of WebRTC media

Start at: 2018-02-03 02:22:22  
End at: 2018-02-03 02:22:52  
Local clock offset: 1.068 ms  
Remote clock offset: -0.882 ms

# Below is generated by plot.py at 2018-02-03 07:12:02  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 4.56 Mbit/s  
95th percentile per-packet one-way delay: 29.000 ms  
Loss rate: 0.18%  
-- Flow 1:  
Average throughput: 2.53 Mbit/s  
95th percentile per-packet one-way delay: 29.113 ms  
Loss rate: 0.22%  
-- Flow 2:  
Average throughput: 1.45 Mbit/s  
95th percentile per-packet one-way delay: 28.422 ms  
Loss rate: 0.18%  
-- Flow 3:  
Average throughput: 0.60 Mbit/s  
95th percentile per-packet one-way delay: 29.560 ms  
Loss rate: 0.00%



Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-02-03 02:47:32

End at: 2018-02-03 02:48:02

Local clock offset: 1.064 ms

Remote clock offset: 0.524 ms

# Below is generated by plot.py at 2018-02-03 07:12:02

# Datalink statistics

-- Total of 3 flows:

Average throughput: 4.65 Mbit/s

95th percentile per-packet one-way delay: 31.376 ms

Loss rate: 0.24%

-- Flow 1:

Average throughput: 2.36 Mbit/s

95th percentile per-packet one-way delay: 30.690 ms

Loss rate: 0.22%

-- Flow 2:

Average throughput: 1.54 Mbit/s

95th percentile per-packet one-way delay: 31.418 ms

Loss rate: 0.15%

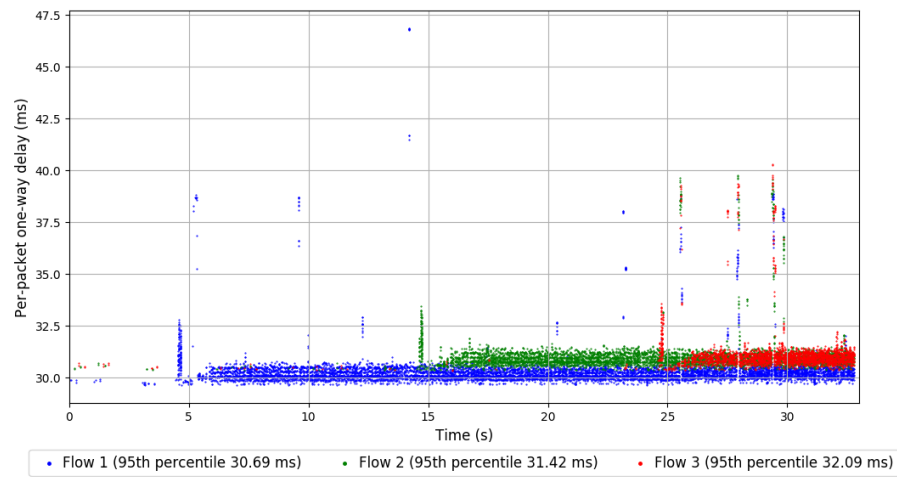
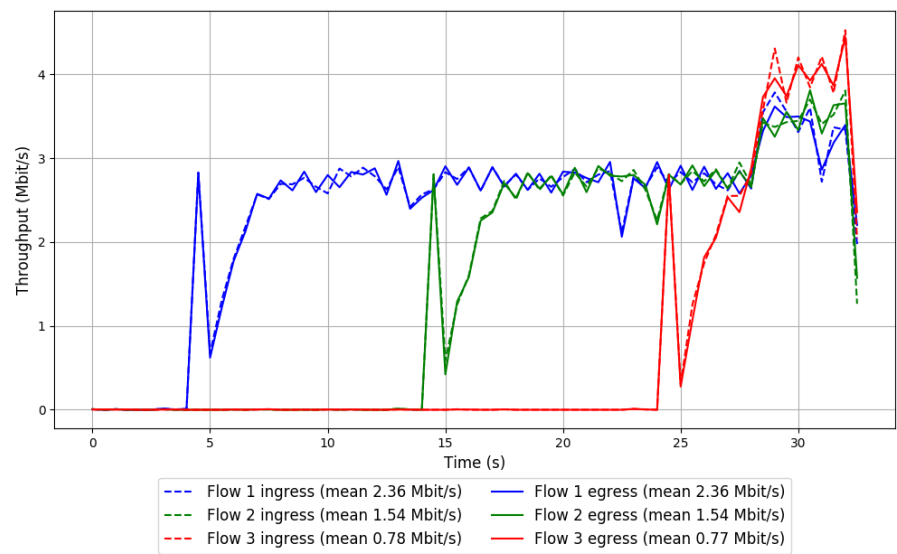
-- Flow 3:

Average throughput: 0.77 Mbit/s

95th percentile per-packet one-way delay: 32.086 ms

Loss rate: 0.48%

Run 2: Report of WebRTC media — Data Link

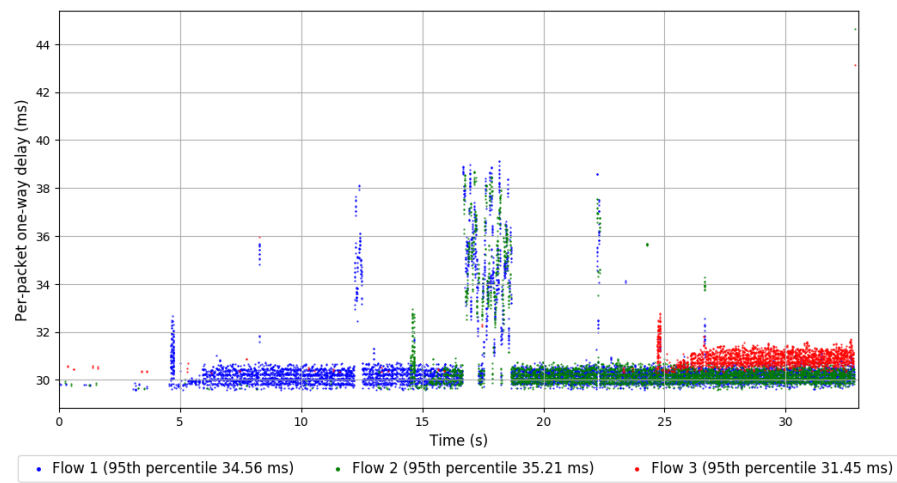
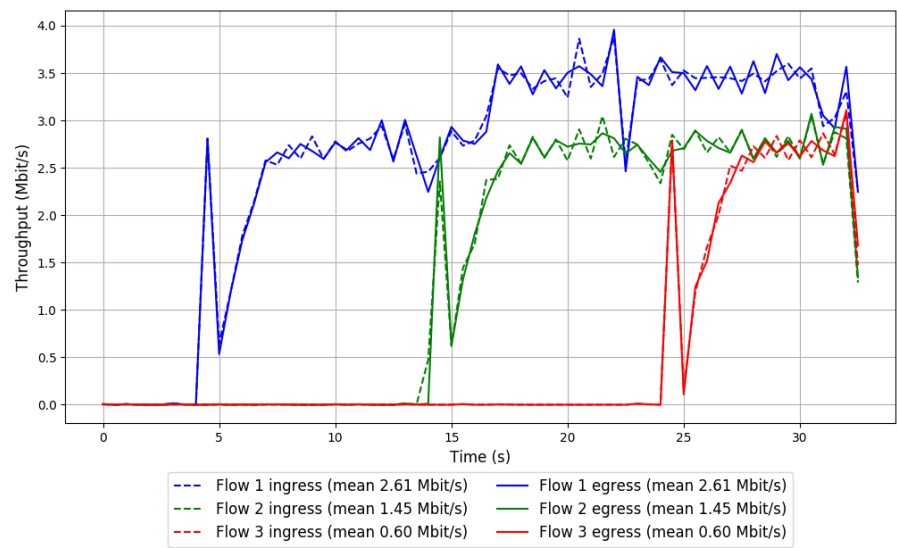


Run 3: Statistics of WebRTC media

Start at: 2018-02-03 03:13:36  
End at: 2018-02-03 03:14:06  
Local clock offset: 1.323 ms  
Remote clock offset: -1.135 ms

# Below is generated by plot.py at 2018-02-03 07:12:02  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 4.64 Mbit/s  
95th percentile per-packet one-way delay: 34.410 ms  
Loss rate: 0.04%  
-- Flow 1:  
Average throughput: 2.61 Mbit/s  
95th percentile per-packet one-way delay: 34.564 ms  
Loss rate: 0.08%  
-- Flow 2:  
Average throughput: 1.45 Mbit/s  
95th percentile per-packet one-way delay: 35.214 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.60 Mbit/s  
95th percentile per-packet one-way delay: 31.455 ms  
Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link

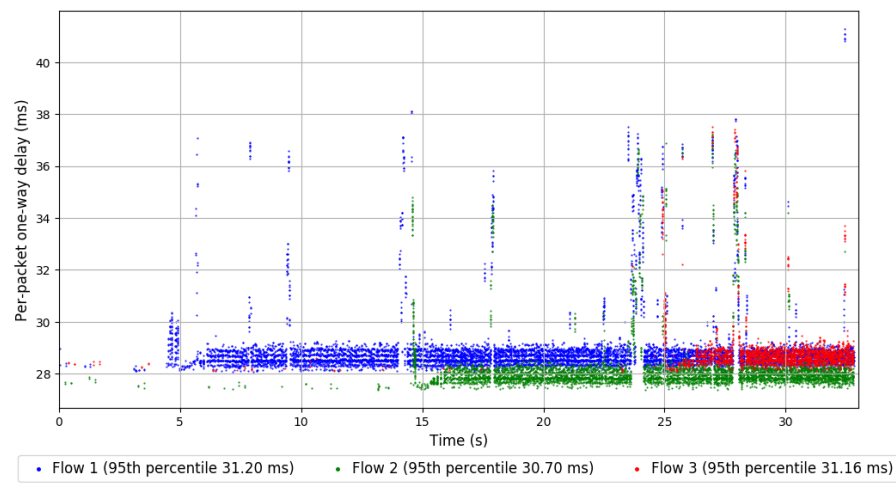
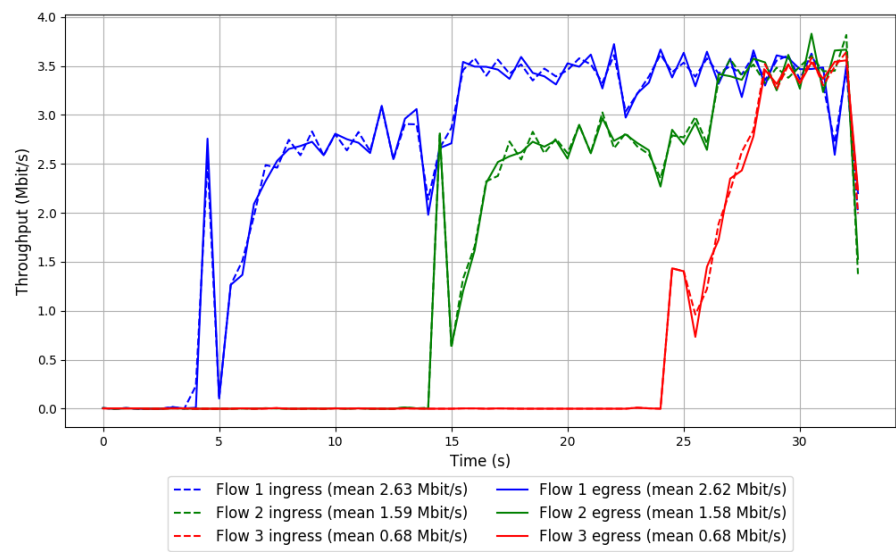


Run 4: Statistics of WebRTC media

Start at: 2018-02-03 03:39:44  
End at: 2018-02-03 03:40:14  
Local clock offset: 1.304 ms  
Remote clock offset: -4.005 ms

# Below is generated by plot.py at 2018-02-03 07:12:02  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 4.87 Mbit/s  
95th percentile per-packet one-way delay: 31.039 ms  
Loss rate: 0.19%  
-- Flow 1:  
Average throughput: 2.62 Mbit/s  
95th percentile per-packet one-way delay: 31.201 ms  
Loss rate: 0.17%  
-- Flow 2:  
Average throughput: 1.58 Mbit/s  
95th percentile per-packet one-way delay: 30.701 ms  
Loss rate: 0.24%  
-- Flow 3:  
Average throughput: 0.68 Mbit/s  
95th percentile per-packet one-way delay: 31.163 ms  
Loss rate: 0.17%

Run 4: Report of WebRTC media — Data Link



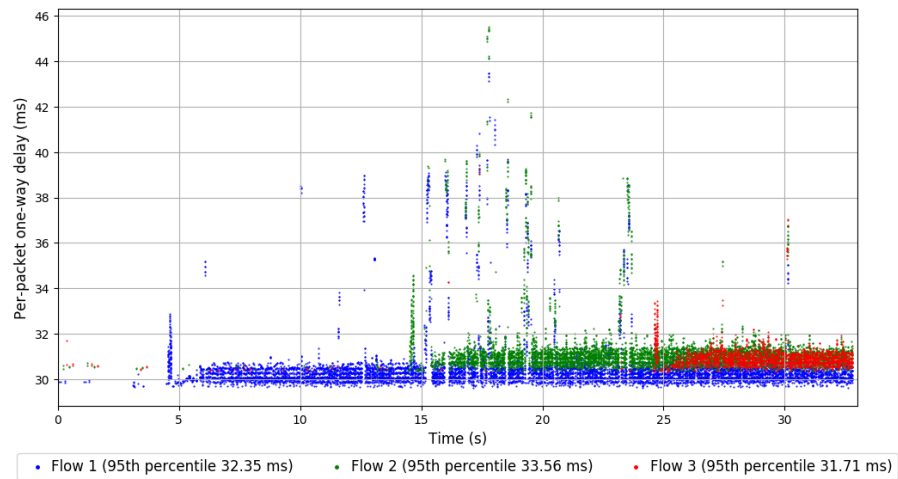
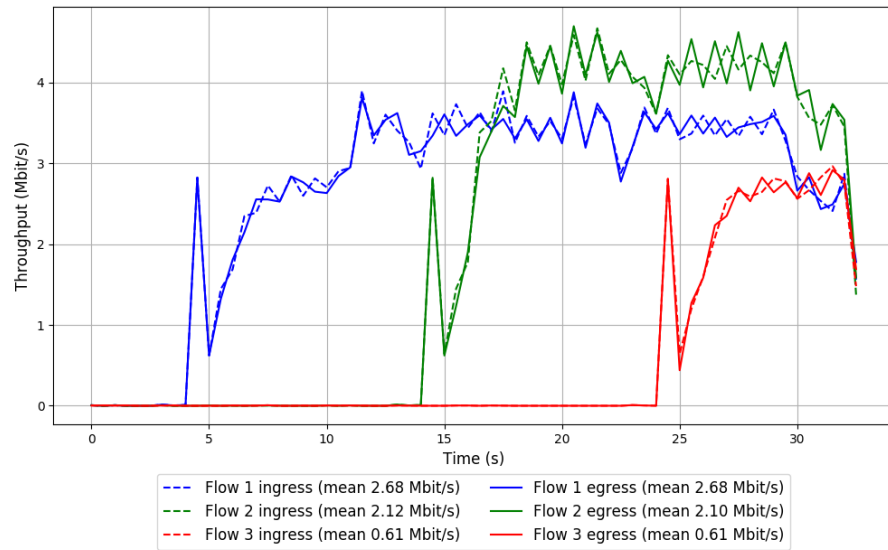
Run 5: Statistics of WebRTC media

Start at: 2018-02-03 04:04:51  
End at: 2018-02-03 04:05:21  
Local clock offset: 1.289 ms  
Remote clock offset: -0.866 ms

# Below is generated by plot.py at 2018-02-03 07:12:02  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 5.37 Mbit/s  
95th percentile per-packet one-way delay: 32.583 ms  
Loss rate: 0.45%  
-- Flow 1:  
Average throughput: 2.68 Mbit/s  
95th percentile per-packet one-way delay: 32.349 ms  
Loss rate: 0.39%  
-- Flow 2:  
Average throughput: 2.10 Mbit/s  
95th percentile per-packet one-way delay: 33.559 ms  
Loss rate: 0.65%  
-- Flow 3:  
Average throughput: 0.61 Mbit/s  
95th percentile per-packet one-way delay: 31.714 ms  
Loss rate: 0.00%



## Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-02-03 04:30:05

End at: 2018-02-03 04:30:35

Local clock offset: 1.378 ms

Remote clock offset: 0.481 ms

# Below is generated by plot.py at 2018-02-03 07:12:02

# Datalink statistics

-- Total of 3 flows:

Average throughput: 4.31 Mbit/s

95th percentile per-packet one-way delay: 31.292 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 30.897 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.45 Mbit/s

95th percentile per-packet one-way delay: 30.867 ms

Loss rate: 0.00%

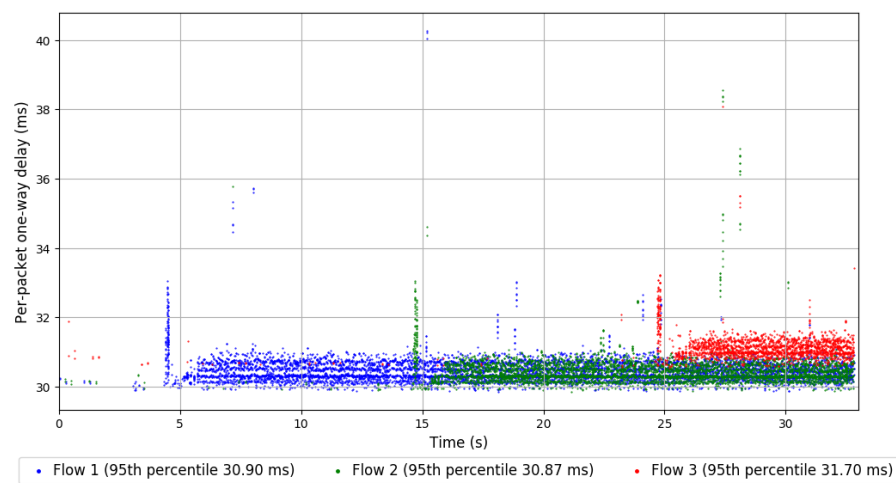
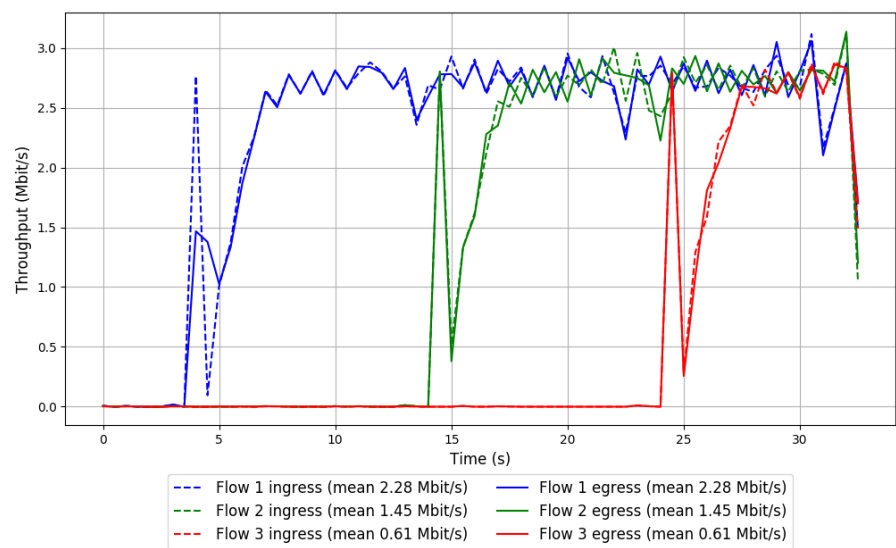
-- Flow 3:

Average throughput: 0.61 Mbit/s

95th percentile per-packet one-way delay: 31.701 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-02-03 04:56:13

End at: 2018-02-03 04:56:43

Local clock offset: 1.298 ms

Remote clock offset: 1.236 ms

# Below is generated by plot.py at 2018-02-03 07:12:02

# Datalink statistics

-- Total of 3 flows:

Average throughput: 4.30 Mbit/s

95th percentile per-packet one-way delay: 30.582 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.27 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.45 Mbit/s

95th percentile per-packet one-way delay: 30.600 ms

Loss rate: 0.00%

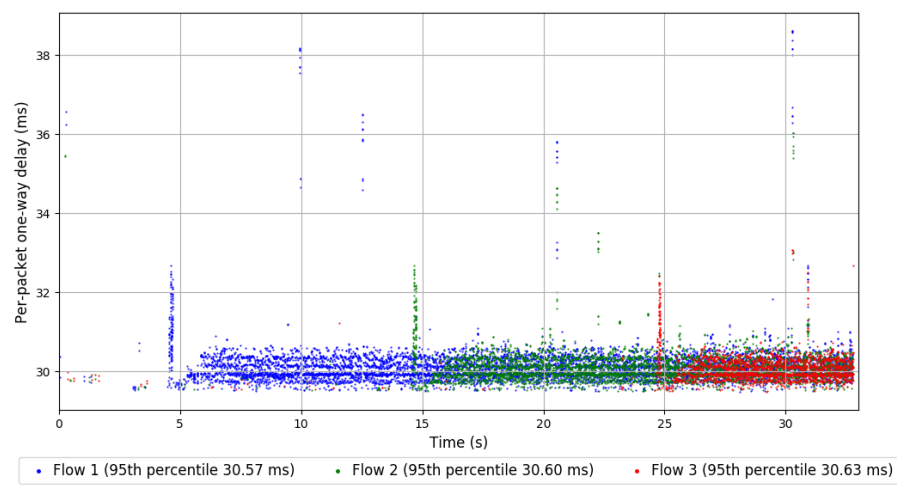
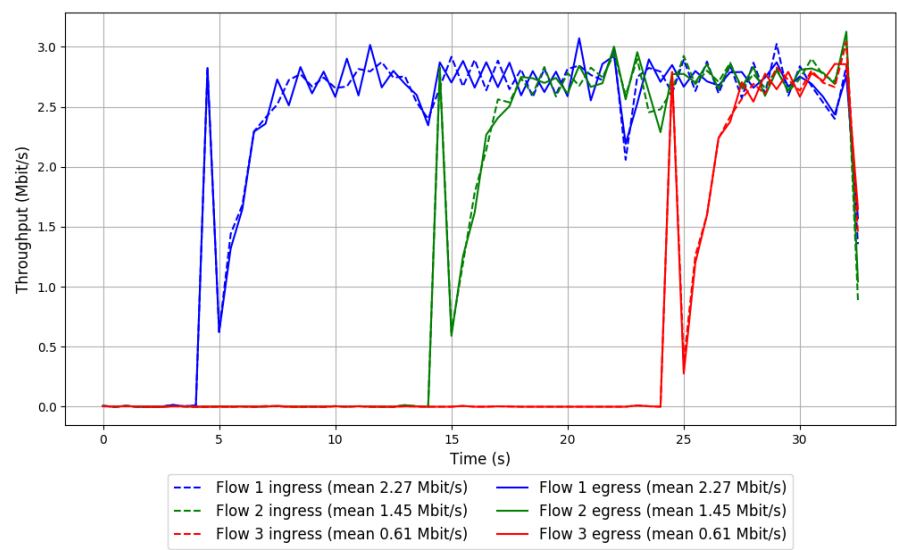
-- Flow 3:

Average throughput: 0.61 Mbit/s

95th percentile per-packet one-way delay: 30.627 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-02-03 05:22:46

End at: 2018-02-03 05:23:16

Local clock offset: 1.029 ms

Remote clock offset: 0.225 ms

# Below is generated by plot.py at 2018-02-03 07:12:02

# Datalink statistics

-- Total of 3 flows:

Average throughput: 4.43 Mbit/s

95th percentile per-packet one-way delay: 29.304 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 2.42 Mbit/s

95th percentile per-packet one-way delay: 28.658 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 1.44 Mbit/s

95th percentile per-packet one-way delay: 29.437 ms

Loss rate: 0.00%

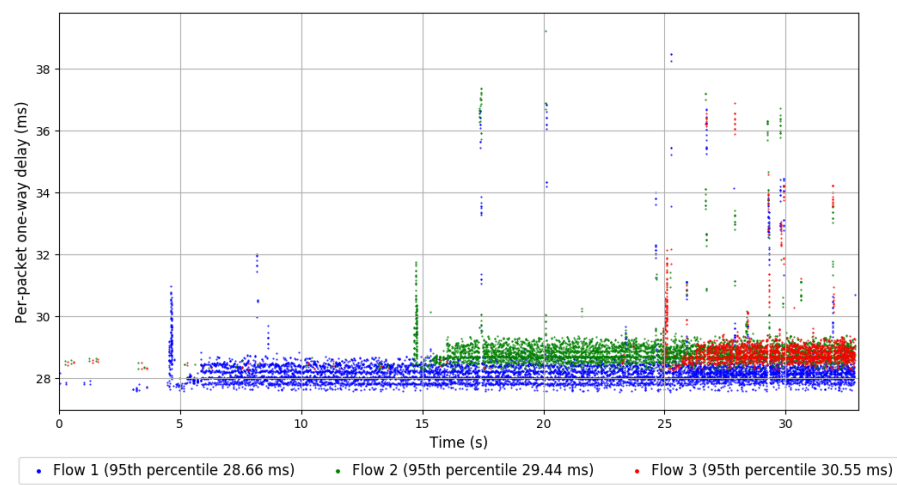
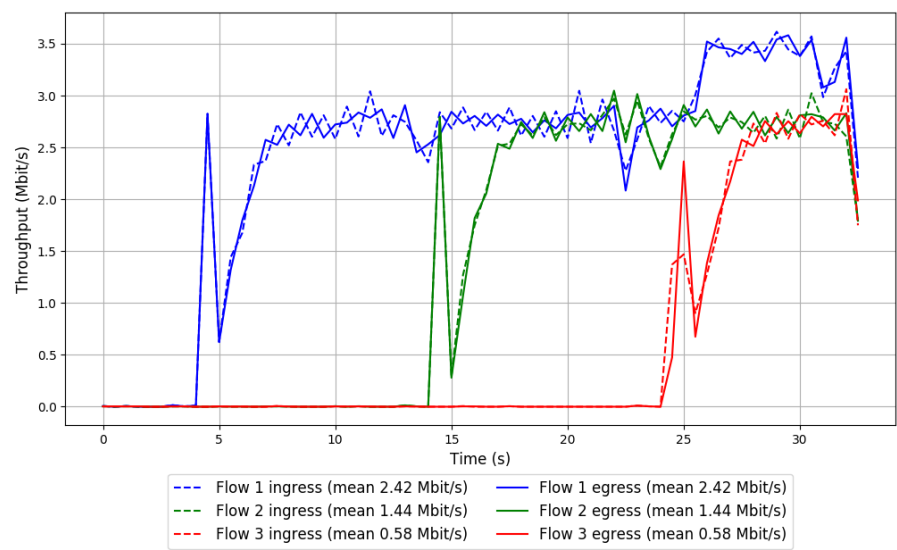
-- Flow 3:

Average throughput: 0.58 Mbit/s

95th percentile per-packet one-way delay: 30.554 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-02-03 05:49:45

End at: 2018-02-03 05:50:15

Local clock offset: 1.021 ms

Remote clock offset: 3.278 ms

# Below is generated by plot.py at 2018-02-03 07:12:02

# Datalink statistics

-- Total of 3 flows:

Average throughput: 4.62 Mbit/s

95th percentile per-packet one-way delay: 31.635 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 2.57 Mbit/s

95th percentile per-packet one-way delay: 31.163 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 1.45 Mbit/s

95th percentile per-packet one-way delay: 31.771 ms

Loss rate: 0.00%

-- Flow 3:

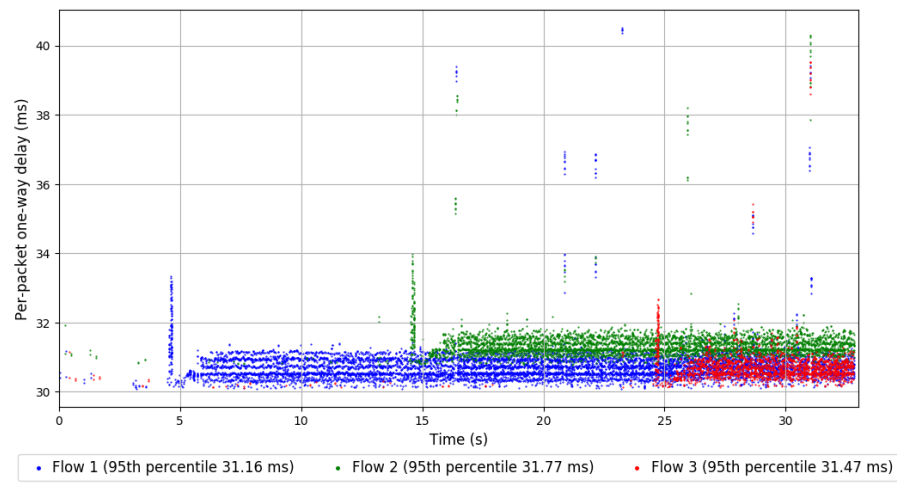
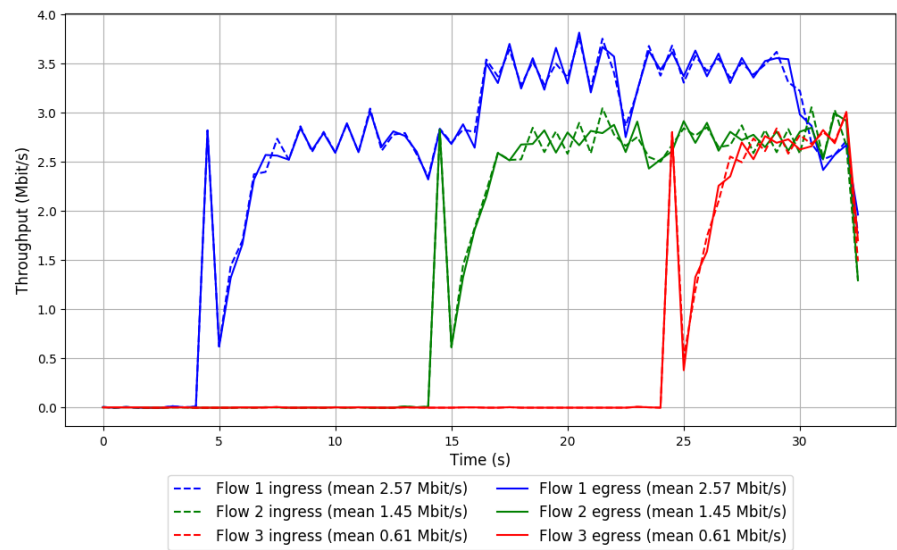
Average throughput: 0.61 Mbit/s

95th percentile per-packet one-way delay: 31.469 ms

Loss rate: 0.00%



Run 9: Report of WebRTC media — Data Link

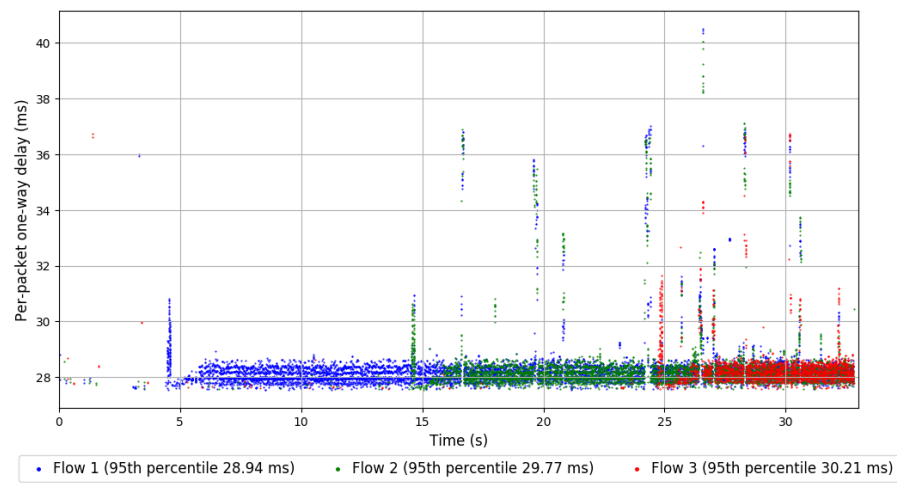
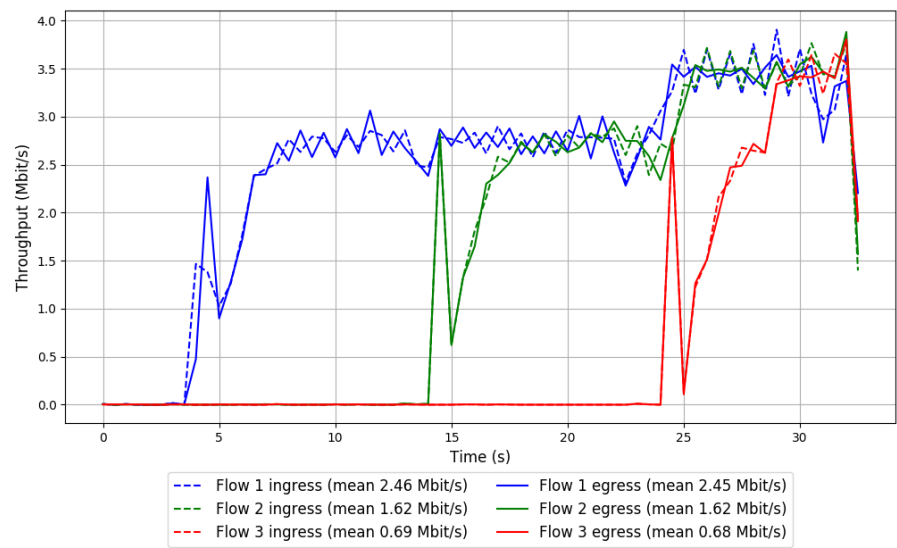


Run 10: Statistics of WebRTC media

Start at: 2018-02-03 06:15:44  
End at: 2018-02-03 06:16:14  
Local clock offset: 0.979 ms  
Remote clock offset: -0.492 ms

# Below is generated by plot.py at 2018-02-03 07:12:02  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 4.73 Mbit/s  
95th percentile per-packet one-way delay: 29.497 ms  
Loss rate: 0.31%  
-- Flow 1:  
Average throughput: 2.45 Mbit/s  
95th percentile per-packet one-way delay: 28.940 ms  
Loss rate: 0.23%  
-- Flow 2:  
Average throughput: 1.62 Mbit/s  
95th percentile per-packet one-way delay: 29.774 ms  
Loss rate: 0.33%  
-- Flow 3:  
Average throughput: 0.68 Mbit/s  
95th percentile per-packet one-way delay: 30.206 ms  
Loss rate: 0.57%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2018-02-03 02:29:20

End at: 2018-02-03 02:29:50

Local clock offset: 1.002 ms

Remote clock offset: 1.384 ms

# Below is generated by plot.py at 2018-02-03 07:12:07

# Datalink statistics

-- Total of 3 flows:

Average throughput: 30.82 Mbit/s

95th percentile per-packet one-way delay: 35.668 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 15.47 Mbit/s

95th percentile per-packet one-way delay: 35.730 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 15.51 Mbit/s

95th percentile per-packet one-way delay: 35.280 ms

Loss rate: 0.10%

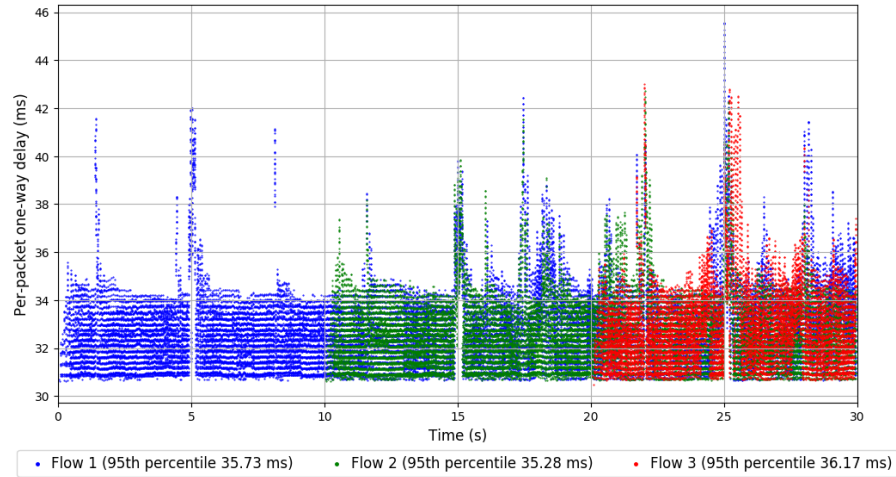
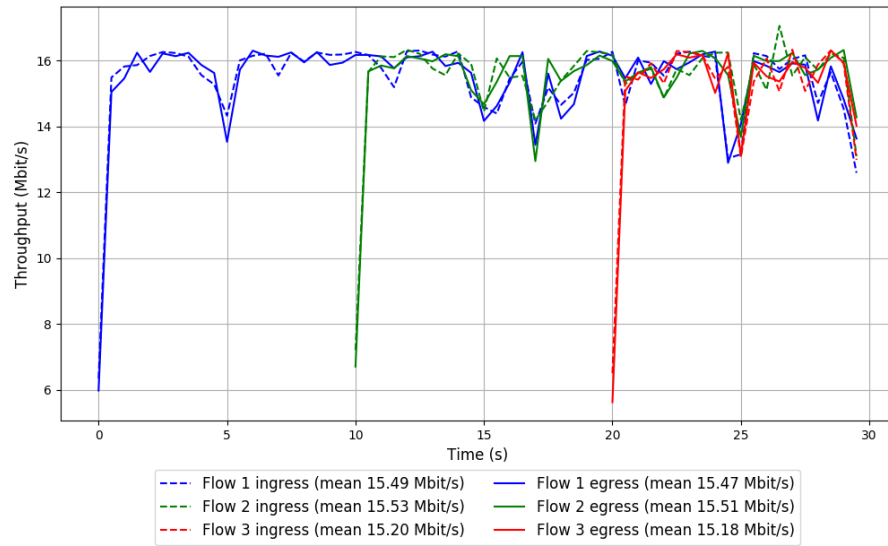
-- Flow 3:

Average throughput: 15.18 Mbit/s

95th percentile per-packet one-way delay: 36.169 ms

Loss rate: 0.06%

## Run 1: Report of Sprout — Data Link



## Run 2: Statistics of Sprout

Start at: 2018-02-03 02:54:27

End at: 2018-02-03 02:54:57

Local clock offset: 1.101 ms

Remote clock offset: 0.222 ms

# Below is generated by plot.py at 2018-02-03 07:12:08

# Datalink statistics

-- Total of 3 flows:

Average throughput: 30.63 Mbit/s

95th percentile per-packet one-way delay: 35.327 ms

Loss rate: 0.36%

-- Flow 1:

Average throughput: 15.44 Mbit/s

95th percentile per-packet one-way delay: 35.027 ms

Loss rate: 0.37%

-- Flow 2:

Average throughput: 15.48 Mbit/s

95th percentile per-packet one-way delay: 34.668 ms

Loss rate: 0.38%

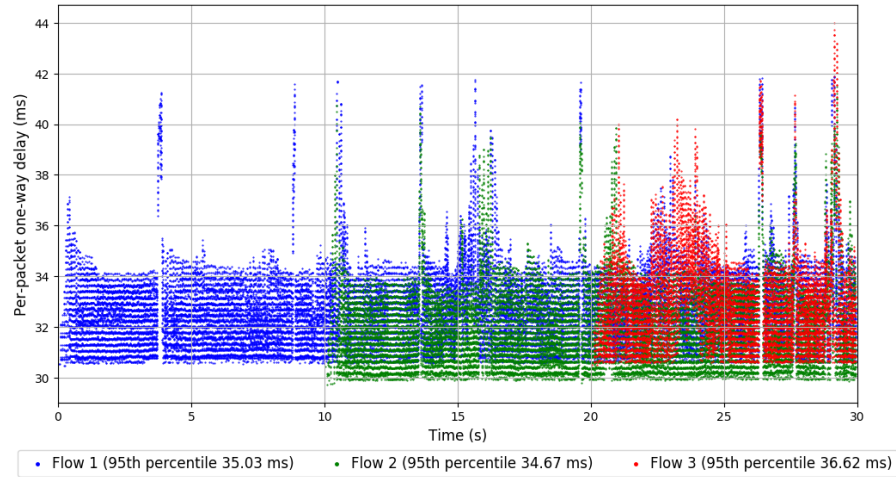
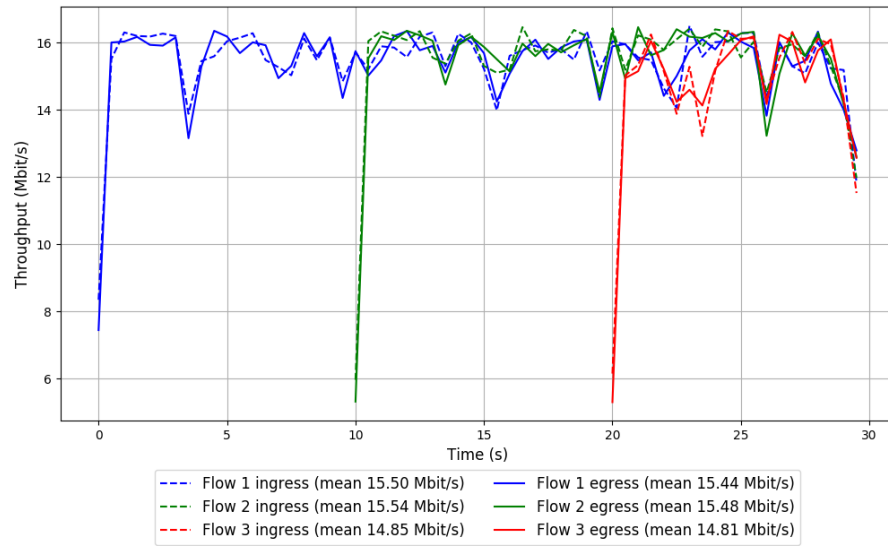
-- Flow 3:

Average throughput: 14.81 Mbit/s

95th percentile per-packet one-way delay: 36.620 ms

Loss rate: 0.28%

## Run 2: Report of Sprout — Data Link



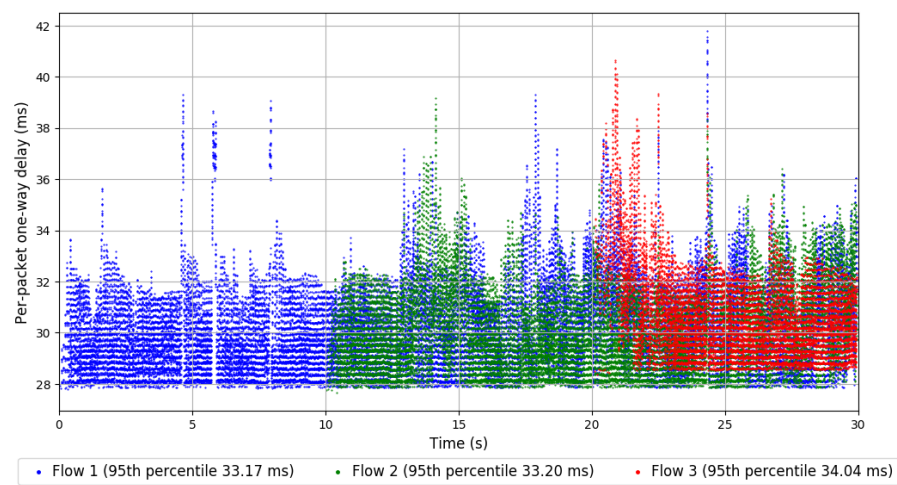
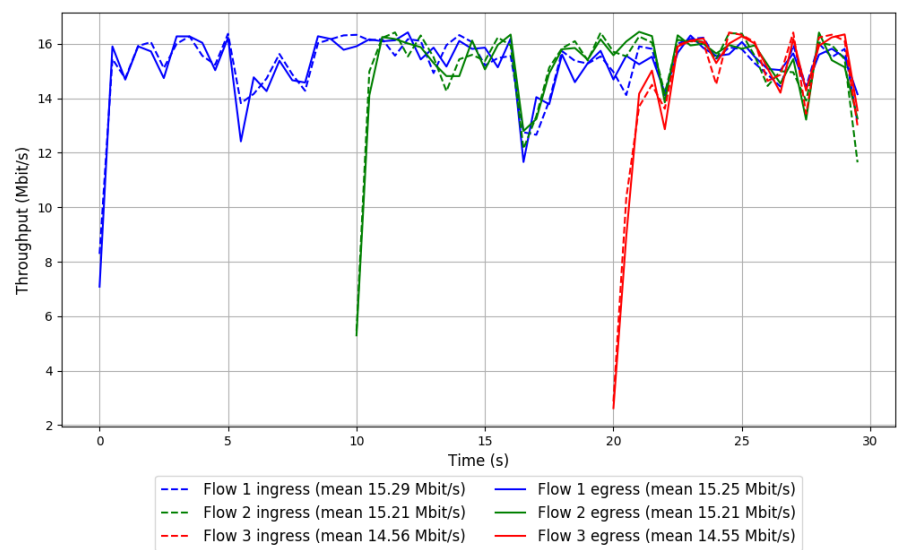
### Run 3: Statistics of Sprout

Start at: 2018-02-03 03:21:02  
End at: 2018-02-03 03:21:32  
Local clock offset: 1.288 ms  
Remote clock offset: -3.526 ms

```
# Below is generated by plot.py at 2018-02-03 07:12:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 30.17 Mbit/s
95th percentile per-packet one-way delay: 33.282 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 15.25 Mbit/s
95th percentile per-packet one-way delay: 33.171 ms
Loss rate: 0.20%
-- Flow 2:
Average throughput: 15.21 Mbit/s
95th percentile per-packet one-way delay: 33.199 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 14.55 Mbit/s
95th percentile per-packet one-way delay: 34.040 ms
Loss rate: 0.08%
```



Run 3: Report of Sprout — Data Link

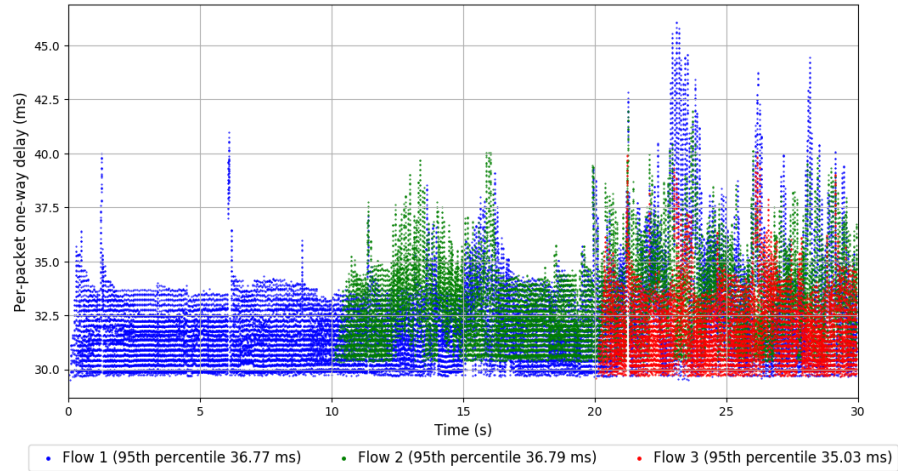
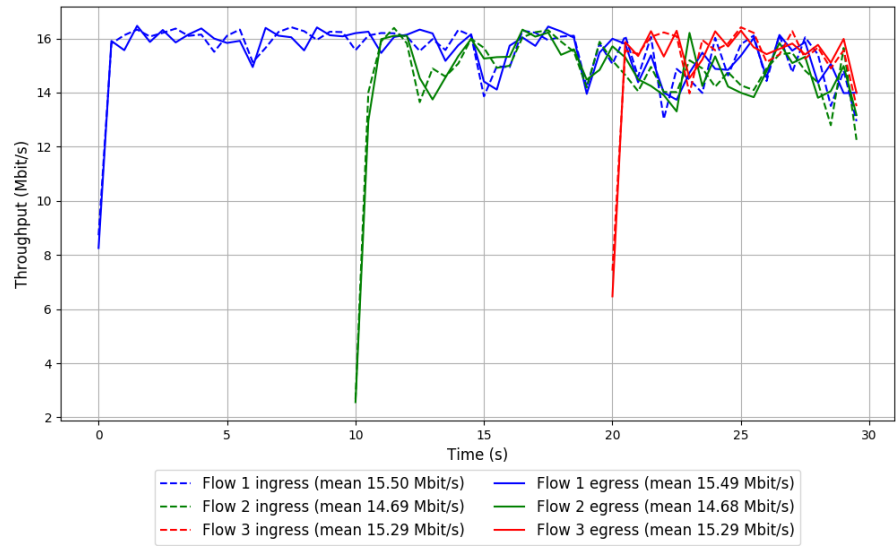


#### Run 4: Statistics of Sprout

Start at: 2018-02-03 03:46:38  
End at: 2018-02-03 03:47:08  
Local clock offset: 1.333 ms  
Remote clock offset: -1.697 ms

```
# Below is generated by plot.py at 2018-02-03 07:12:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 30.30 Mbit/s
95th percentile per-packet one-way delay: 36.549 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 15.49 Mbit/s
95th percentile per-packet one-way delay: 36.770 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 14.68 Mbit/s
95th percentile per-packet one-way delay: 36.793 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 15.29 Mbit/s
95th percentile per-packet one-way delay: 35.026 ms
Loss rate: 0.00%
```

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

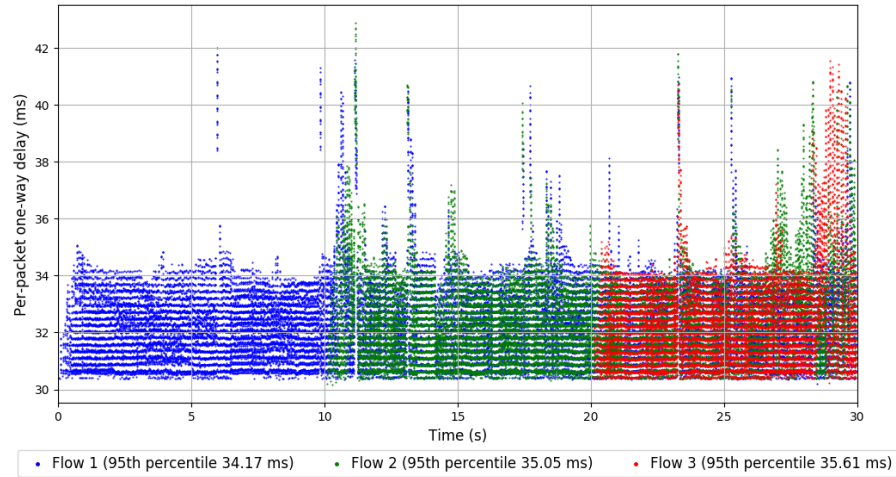
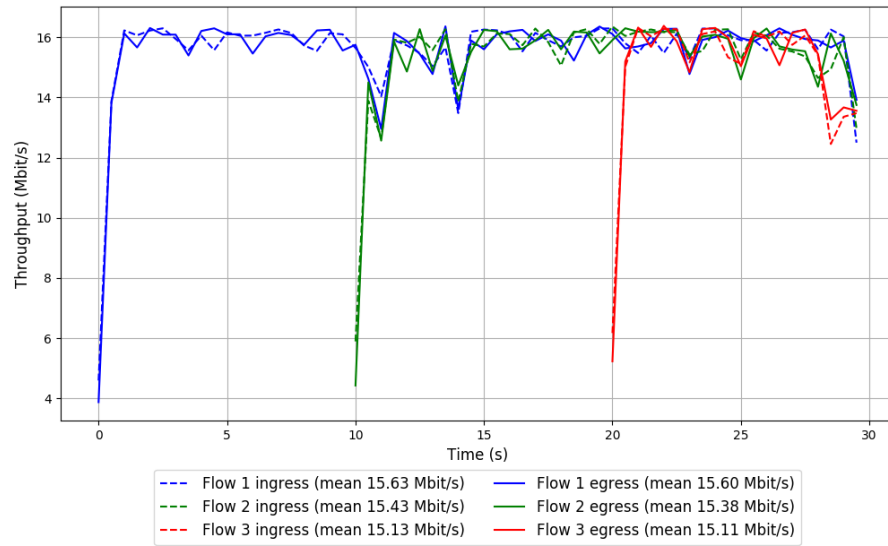


Run 5: Statistics of Sprout

Start at: 2018-02-03 04:11:42  
End at: 2018-02-03 04:12:12  
Local clock offset: 1.383 ms  
Remote clock offset: -0.586 ms

# Below is generated by plot.py at 2018-02-03 07:12:20  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 30.82 Mbit/s  
95th percentile per-packet one-way delay: 34.612 ms  
Loss rate: 0.21%  
-- Flow 1:  
Average throughput: 15.60 Mbit/s  
95th percentile per-packet one-way delay: 34.170 ms  
Loss rate: 0.17%  
-- Flow 2:  
Average throughput: 15.38 Mbit/s  
95th percentile per-packet one-way delay: 35.055 ms  
Loss rate: 0.30%  
-- Flow 3:  
Average throughput: 15.11 Mbit/s  
95th percentile per-packet one-way delay: 35.613 ms  
Loss rate: 0.11%

## Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-02-03 04:37:16

End at: 2018-02-03 04:37:46

Local clock offset: 1.381 ms

Remote clock offset: 1.03 ms

# Below is generated by plot.py at 2018-02-03 07:12:25

# Datalink statistics

-- Total of 3 flows:

Average throughput: 30.17 Mbit/s

95th percentile per-packet one-way delay: 36.018 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 15.31 Mbit/s

95th percentile per-packet one-way delay: 35.917 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 15.25 Mbit/s

95th percentile per-packet one-way delay: 35.402 ms

Loss rate: 0.00%

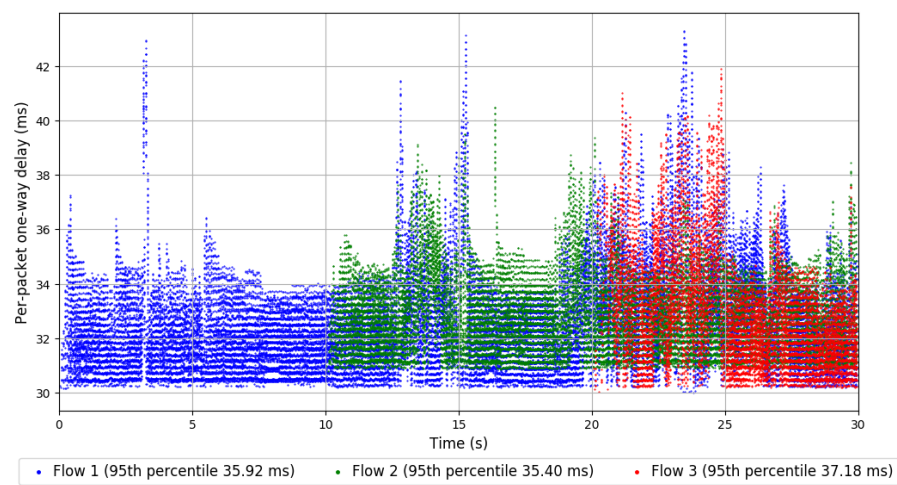
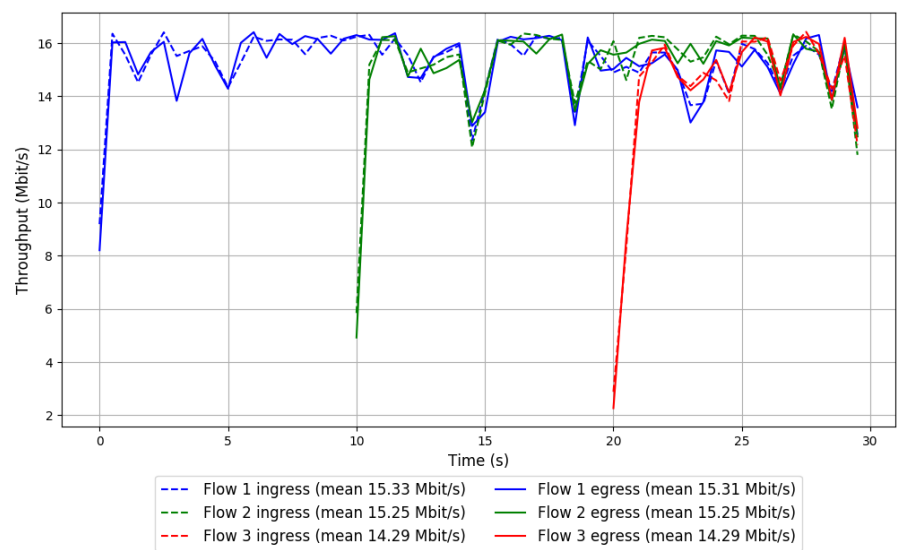
-- Flow 3:

Average throughput: 14.29 Mbit/s

95th percentile per-packet one-way delay: 37.179 ms

Loss rate: 0.00%

Run 6: Report of Sprout — Data Link



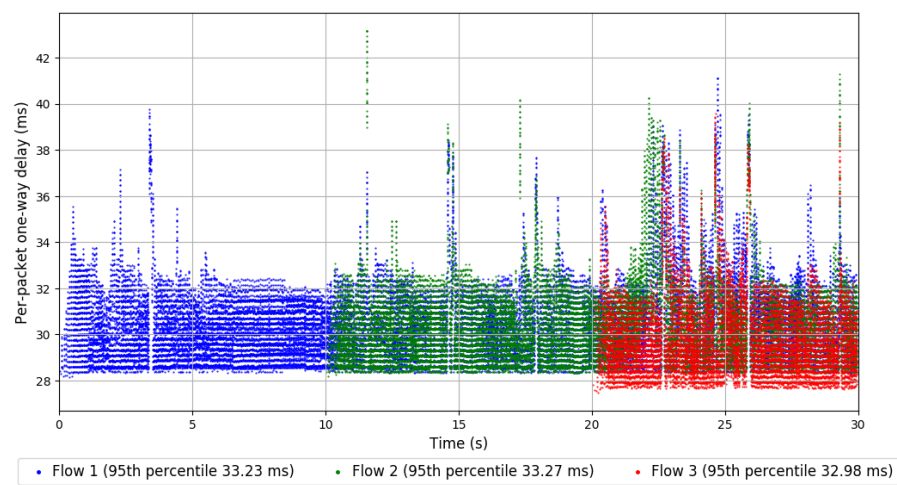
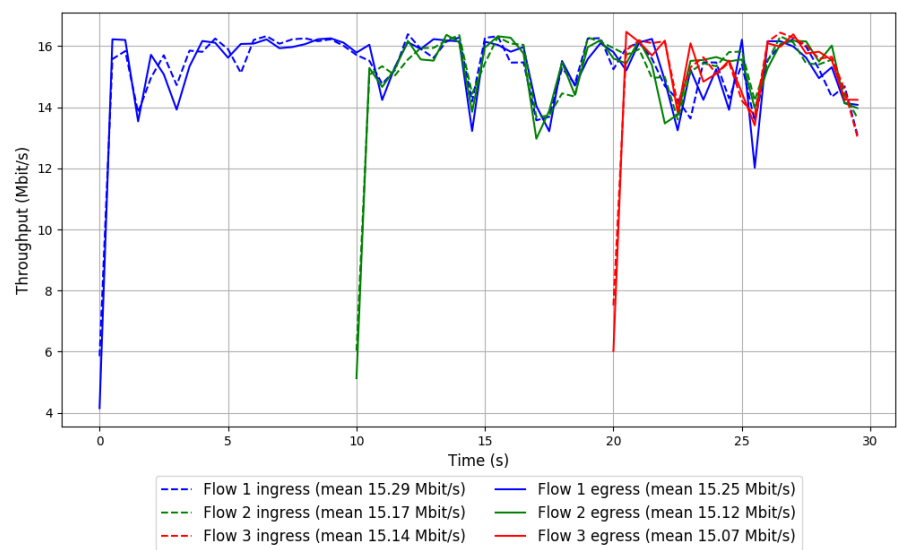
Run 7: Statistics of Sprout

Start at: 2018-02-03 05:03:20  
End at: 2018-02-03 05:03:50  
Local clock offset: 1.153 ms  
Remote clock offset: -0.754 ms

# Below is generated by plot.py at 2018-02-03 07:12:31  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 30.28 Mbit/s  
95th percentile per-packet one-way delay: 33.210 ms  
Loss rate: 0.31%  
-- Flow 1:  
Average throughput: 15.25 Mbit/s  
95th percentile per-packet one-way delay: 33.231 ms  
Loss rate: 0.29%  
-- Flow 2:  
Average throughput: 15.12 Mbit/s  
95th percentile per-packet one-way delay: 33.269 ms  
Loss rate: 0.28%  
-- Flow 3:  
Average throughput: 15.07 Mbit/s  
95th percentile per-packet one-way delay: 32.976 ms  
Loss rate: 0.42%



Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-02-03 05:30:16

End at: 2018-02-03 05:30:46

Local clock offset: 1.077 ms

Remote clock offset: 0.532 ms

# Below is generated by plot.py at 2018-02-03 07:12:32

# Datalink statistics

-- Total of 3 flows:

Average throughput: 29.28 Mbit/s

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

Loss rate: 0.63%

-- Flow 1:

Average throughput: 14.77 Mbit/s

95th percentile per-packet one-way delay: 35.285 ms

Loss rate: 0.69%

-- Flow 2:

Average throughput: 14.96 Mbit/s

95th percentile per-packet one-way delay: 34.623 ms

Loss rate: 0.46%

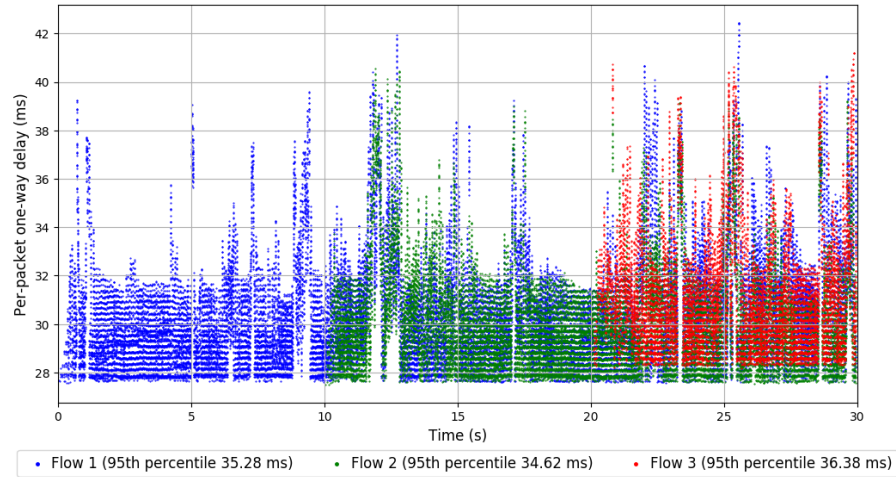
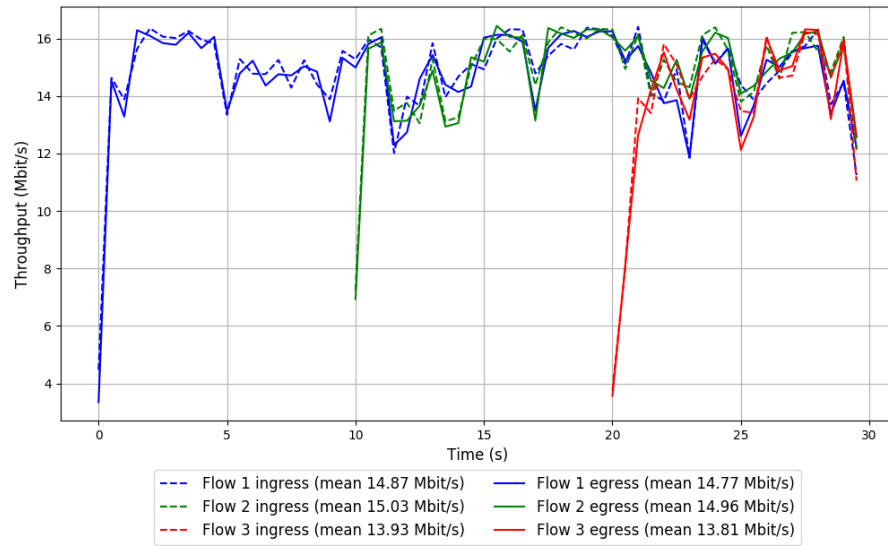
-- Flow 3:

Average throughput: 13.81 Mbit/s

95th percentile per-packet one-way delay: 36.382 ms

Loss rate: 0.83%

# Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-02-03 05:57:01

End at: 2018-02-03 05:57:31

Local clock offset: 1.008 ms

Remote clock offset: 2.549 ms

# Below is generated by plot.py at 2018-02-03 07:12:37

# Datalink statistics

-- Total of 3 flows:

Average throughput: 30.10 Mbit/s

95th percentile per-packet one-way delay: 35.613 ms

Loss rate: 0.32%

-- Flow 1:

Average throughput: 15.25 Mbit/s

95th percentile per-packet one-way delay: 35.219 ms

Loss rate: 0.28%

-- Flow 2:

Average throughput: 14.96 Mbit/s

95th percentile per-packet one-way delay: 36.213 ms

Loss rate: 0.35%

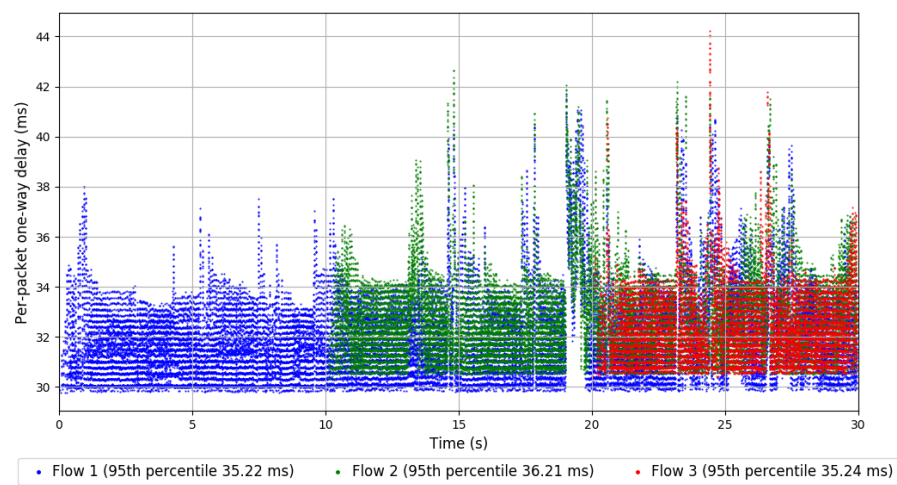
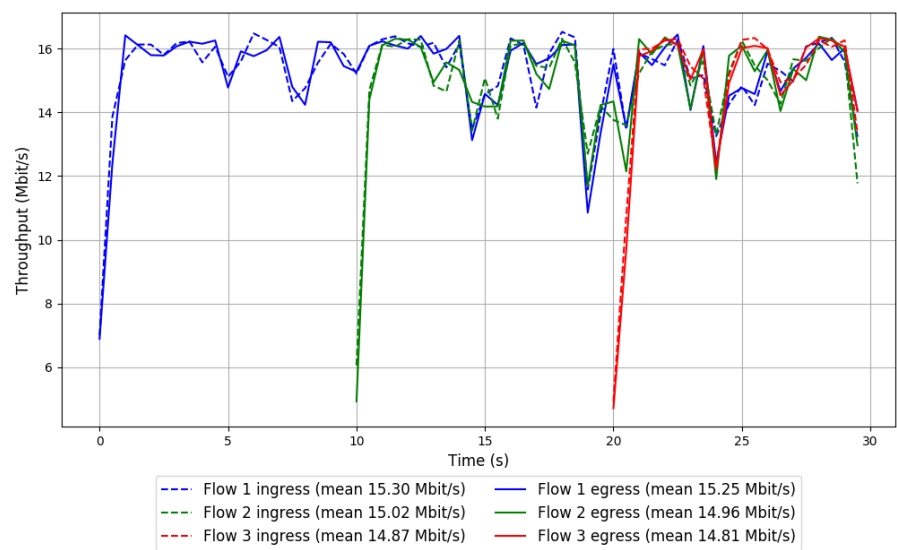
-- Flow 3:

Average throughput: 14.81 Mbit/s

95th percentile per-packet one-way delay: 35.236 ms

Loss rate: 0.38%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-02-03 06:22:52

End at: 2018-02-03 06:23:22

Local clock offset: 0.93 ms

Remote clock offset: 1.043 ms

# Below is generated by plot.py at 2018-02-03 07:12:38

# Datalink statistics

-- Total of 3 flows:

Average throughput: 30.63 Mbit/s

95th percentile per-packet one-way delay: 35.178 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 15.63 Mbit/s

95th percentile per-packet one-way delay: 34.153 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 15.34 Mbit/s

95th percentile per-packet one-way delay: 35.367 ms

Loss rate: 0.03%

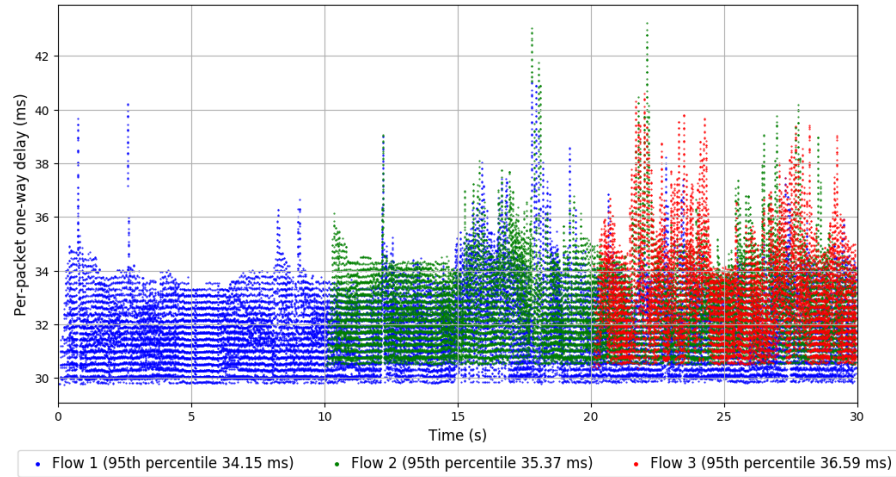
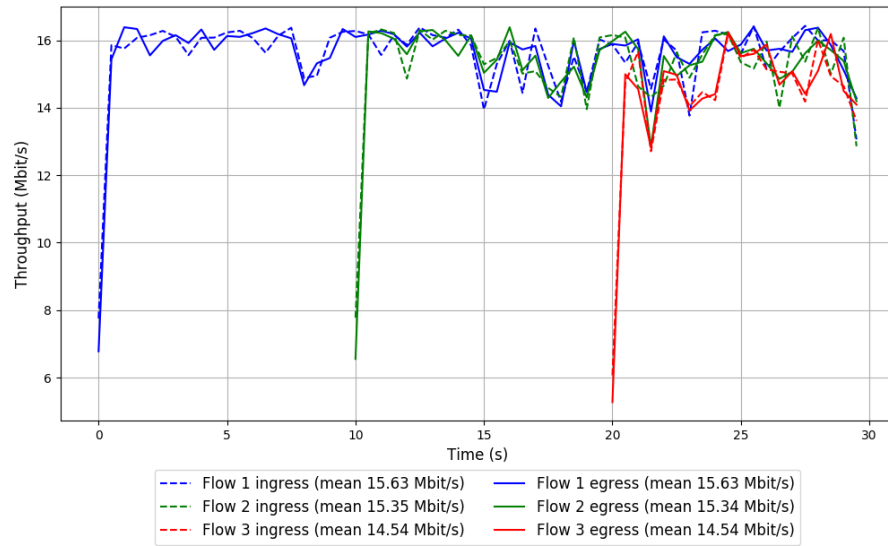
-- Flow 3:

Average throughput: 14.54 Mbit/s

95th percentile per-packet one-way delay: 36.590 ms

Loss rate: 0.00%

## Run 10: Report of Sprout — Data Link



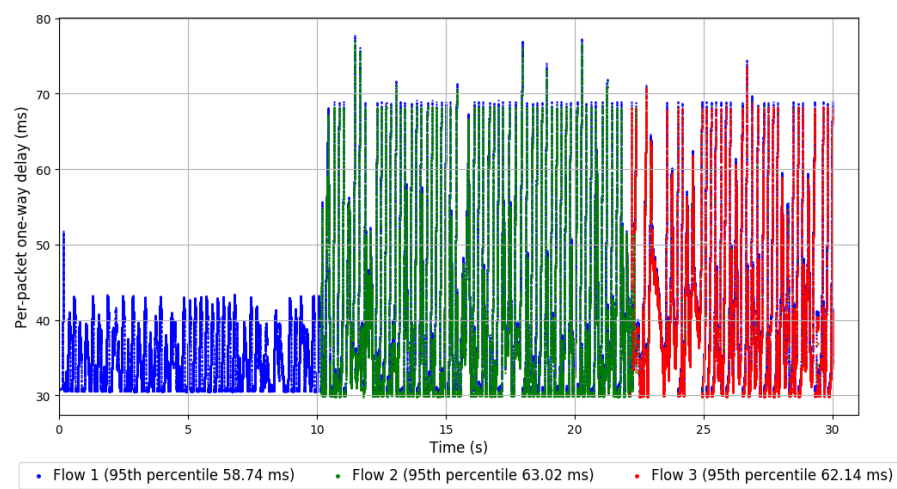
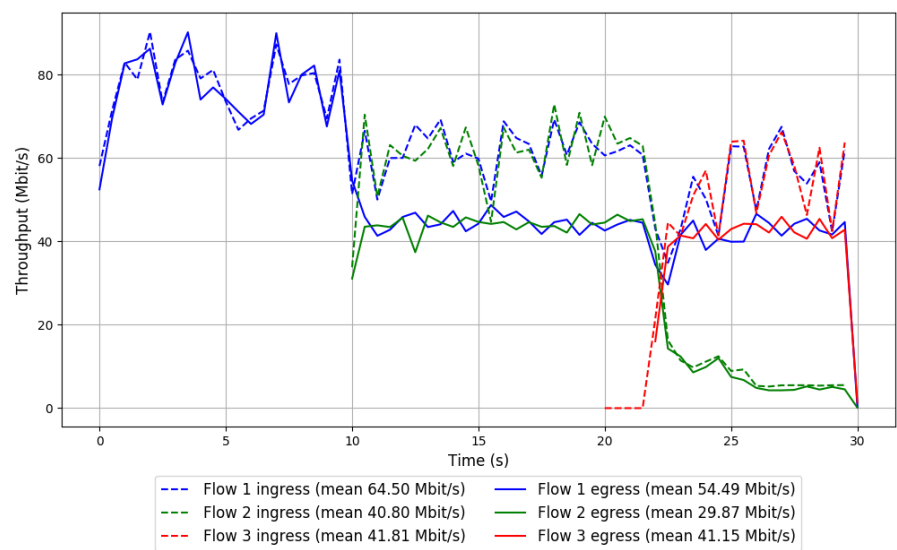
```
Run 1: Statistics of TaoVA-100x

Start at: 2018-02-03 02:25:01
End at: 2018-02-03 02:25:31
Local clock offset: 1.011 ms
Remote clock offset: 1.407 ms

# Below is generated by plot.py at 2018-02-03 07:14:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.26 Mbit/s
95th percentile per-packet one-way delay: 60.773 ms
Loss rate: 19.18%
-- Flow 1:
Average throughput: 54.49 Mbit/s
95th percentile per-packet one-way delay: 58.740 ms
Loss rate: 15.50%
-- Flow 2:
Average throughput: 29.87 Mbit/s
95th percentile per-packet one-way delay: 63.016 ms
Loss rate: 26.80%
-- Flow 3:
Average throughput: 41.15 Mbit/s
95th percentile per-packet one-way delay: 62.143 ms
Loss rate: 21.36%
```



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

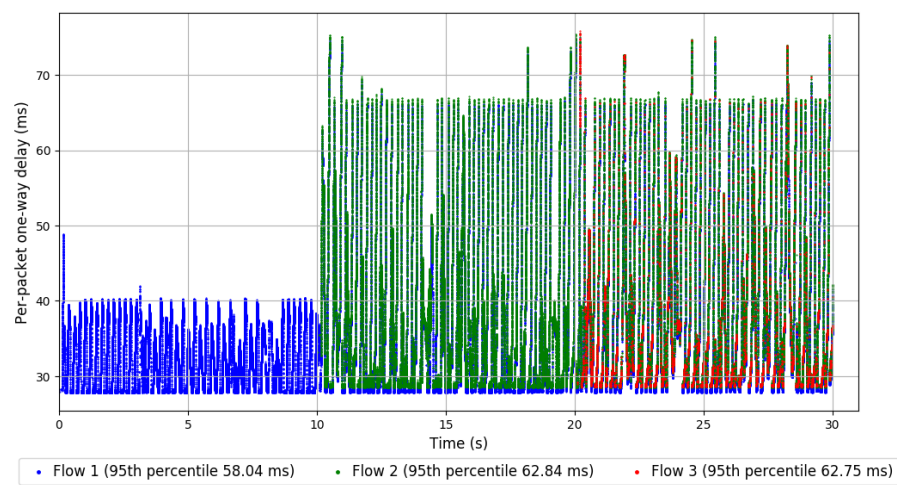
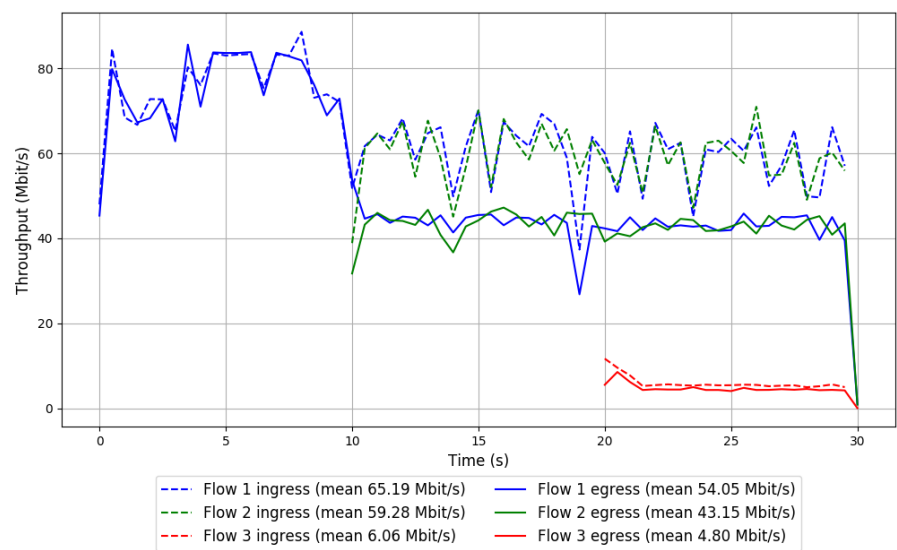


Run 2: Statistics of TaoVA-100x

Start at: 2018-02-03 02:50:11  
End at: 2018-02-03 02:50:41  
Local clock offset: 1.079 ms  
Remote clock offset: -1.632 ms

# Below is generated by plot.py at 2018-02-03 07:14:30  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 84.38 Mbit/s  
95th percentile per-packet one-way delay: 60.390 ms  
Loss rate: 20.86%  
-- Flow 1:  
Average throughput: 54.05 Mbit/s  
95th percentile per-packet one-way delay: 58.042 ms  
Loss rate: 17.04%  
-- Flow 2:  
Average throughput: 43.15 Mbit/s  
95th percentile per-packet one-way delay: 62.835 ms  
Loss rate: 27.18%  
-- Flow 3:  
Average throughput: 4.80 Mbit/s  
95th percentile per-packet one-way delay: 62.753 ms  
Loss rate: 20.70%

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

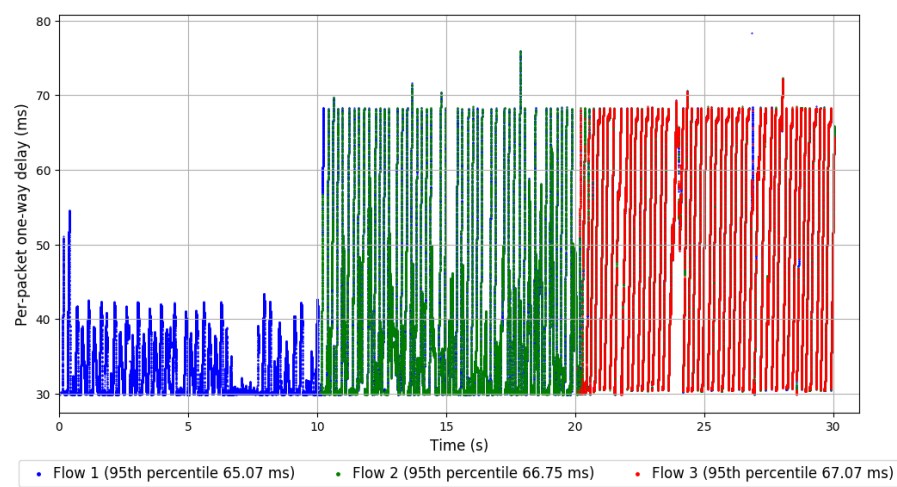
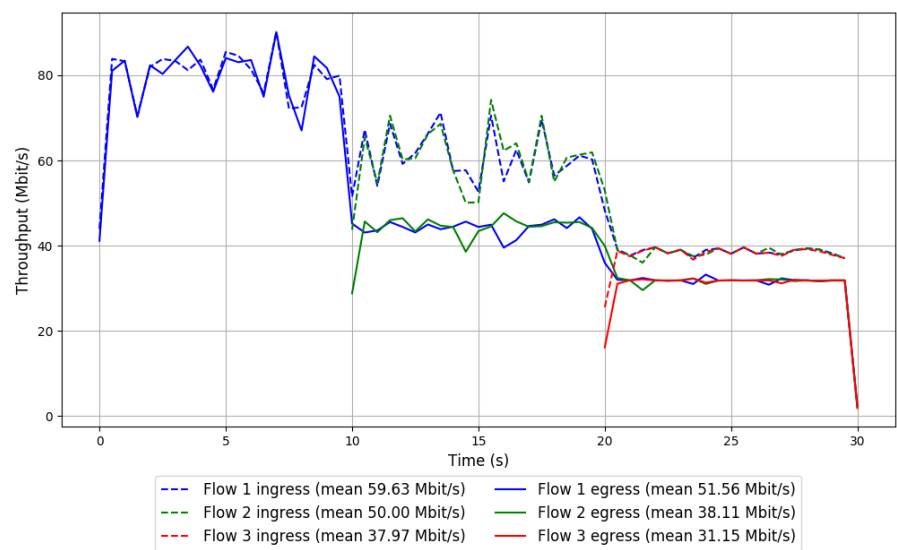


Run 3: Statistics of TaoVA-100x

Start at: 2018-02-03 03:16:22  
End at: 2018-02-03 03:16:52  
Local clock offset: 1.278 ms  
Remote clock offset: -1.255 ms

# Below is generated by plot.py at 2018-02-03 07:14:43  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 87.30 Mbit/s  
95th percentile per-packet one-way delay: 66.606 ms  
Loss rate: 17.18%  
-- Flow 1:  
Average throughput: 51.56 Mbit/s  
95th percentile per-packet one-way delay: 65.069 ms  
Loss rate: 13.42%  
-- Flow 2:  
Average throughput: 38.11 Mbit/s  
95th percentile per-packet one-way delay: 66.754 ms  
Loss rate: 23.68%  
-- Flow 3:  
Average throughput: 31.15 Mbit/s  
95th percentile per-packet one-way delay: 67.066 ms  
Loss rate: 17.75%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-02-03 03:42:23

End at: 2018-02-03 03:42:53

Local clock offset: 1.341 ms

Remote clock offset: -3.84 ms

# Below is generated by plot.py at 2018-02-03 07:14:51

# Datalink statistics

-- Total of 3 flows:

Average throughput: 87.92 Mbit/s

95th percentile per-packet one-way delay: 64.876 ms

Loss rate: 17.62%

-- Flow 1:

Average throughput: 51.93 Mbit/s

95th percentile per-packet one-way delay: 64.778 ms

Loss rate: 13.71%

-- Flow 2:

Average throughput: 38.32 Mbit/s

95th percentile per-packet one-way delay: 64.808 ms

Loss rate: 24.60%

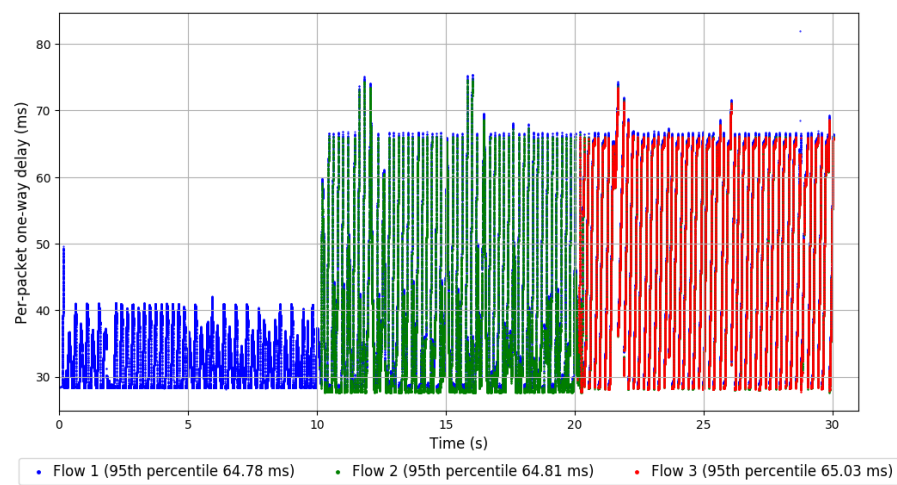
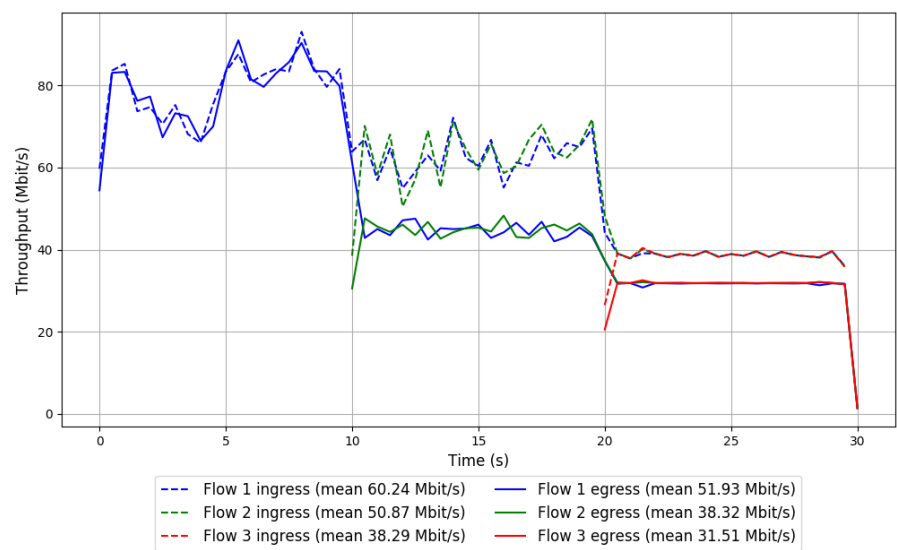
-- Flow 3:

Average throughput: 31.51 Mbit/s

95th percentile per-packet one-way delay: 65.029 ms

Loss rate: 17.55%

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



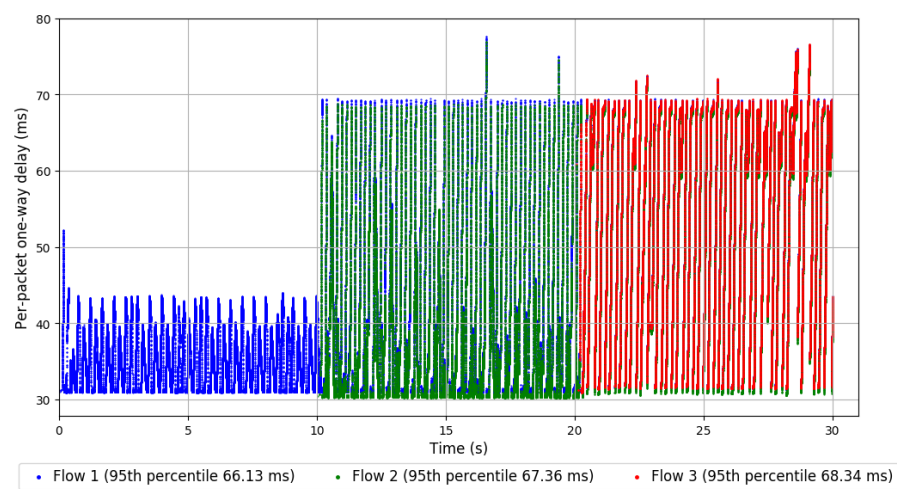
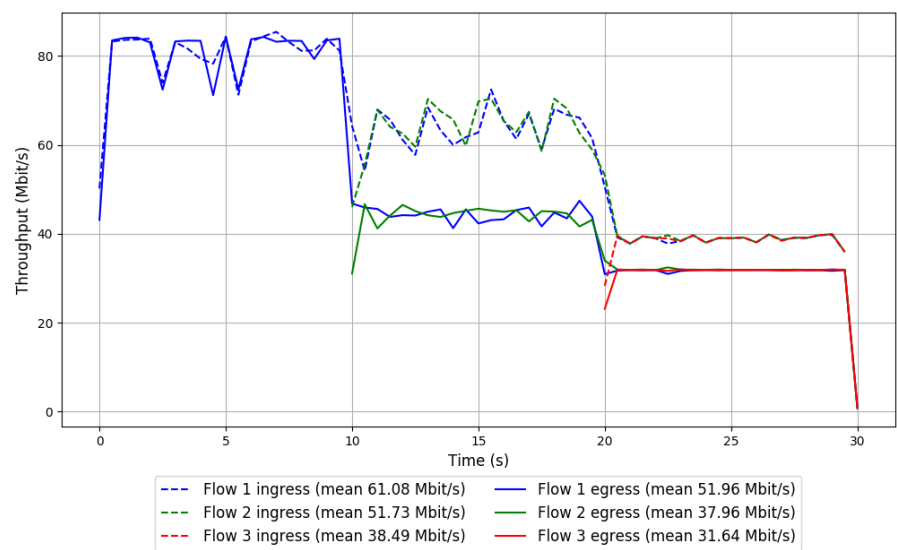
Run 5: Statistics of TaoVA-100x

Start at: 2018-02-03 04:07:30  
End at: 2018-02-03 04:08:00  
Local clock offset: 1.389 ms  
Remote clock offset: -0.214 ms

# Below is generated by plot.py at 2018-02-03 07:14:56  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 87.73 Mbit/s  
95th percentile per-packet one-way delay: 67.631 ms  
Loss rate: 18.96%  
-- Flow 1:  
Average throughput: 51.96 Mbit/s  
95th percentile per-packet one-way delay: 66.129 ms  
Loss rate: 14.89%  
-- Flow 2:  
Average throughput: 37.96 Mbit/s  
95th percentile per-packet one-way delay: 67.363 ms  
Loss rate: 26.57%  
-- Flow 3:  
Average throughput: 31.64 Mbit/s  
95th percentile per-packet one-way delay: 68.340 ms  
Loss rate: 17.93%



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



Run 6: Statistics of TaoVA-100x

Start at: 2018-02-03 04:32:49

End at: 2018-02-03 04:33:19

Local clock offset: 1.377 ms

Remote clock offset: 0.853 ms

# Below is generated by plot.py at 2018-02-03 07:14:56

# Datalink statistics

-- Total of 3 flows:

Average throughput: 86.86 Mbit/s

95th percentile per-packet one-way delay: 68.028 ms

Loss rate: 17.35%

-- Flow 1:

Average throughput: 51.01 Mbit/s

95th percentile per-packet one-way delay: 66.922 ms

Loss rate: 13.57%

-- Flow 2:

Average throughput: 38.08 Mbit/s

95th percentile per-packet one-way delay: 67.635 ms

Loss rate: 23.90%

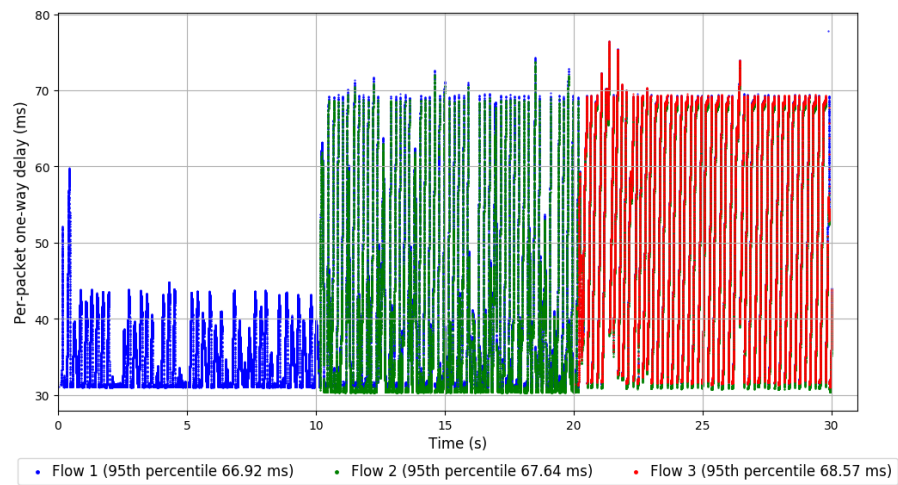
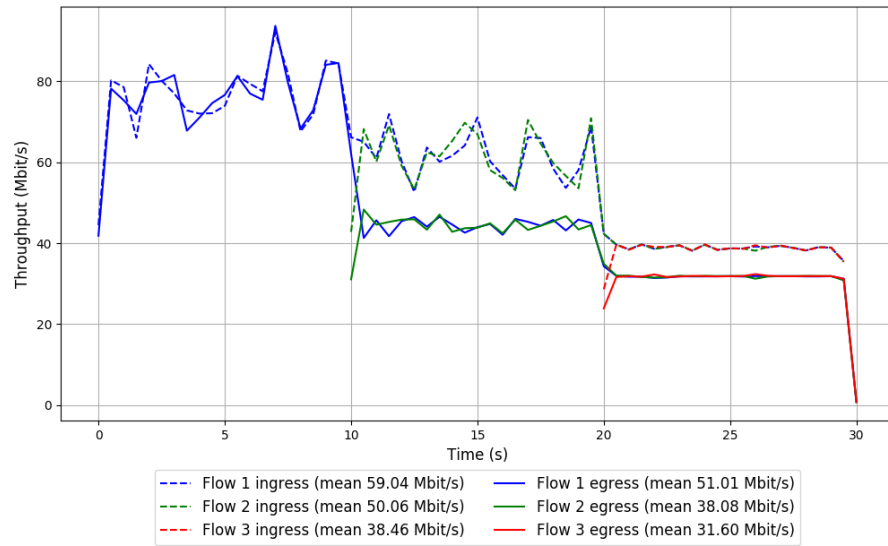
-- Flow 3:

Average throughput: 31.60 Mbit/s

95th percentile per-packet one-way delay: 68.566 ms

Loss rate: 17.74%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-02-03 04:58:54

End at: 2018-02-03 04:59:24

Local clock offset: 1.282 ms

Remote clock offset: 1.64 ms

# Below is generated by plot.py at 2018-02-03 07:14:59

# Datalink statistics

-- Total of 3 flows:

Average throughput: 84.69 Mbit/s

95th percentile per-packet one-way delay: 64.212 ms

Loss rate: 21.34%

-- Flow 1:

Average throughput: 53.82 Mbit/s

95th percentile per-packet one-way delay: 61.388 ms

Loss rate: 17.23%

-- Flow 2:

Average throughput: 43.32 Mbit/s

95th percentile per-packet one-way delay: 65.776 ms

Loss rate: 28.11%

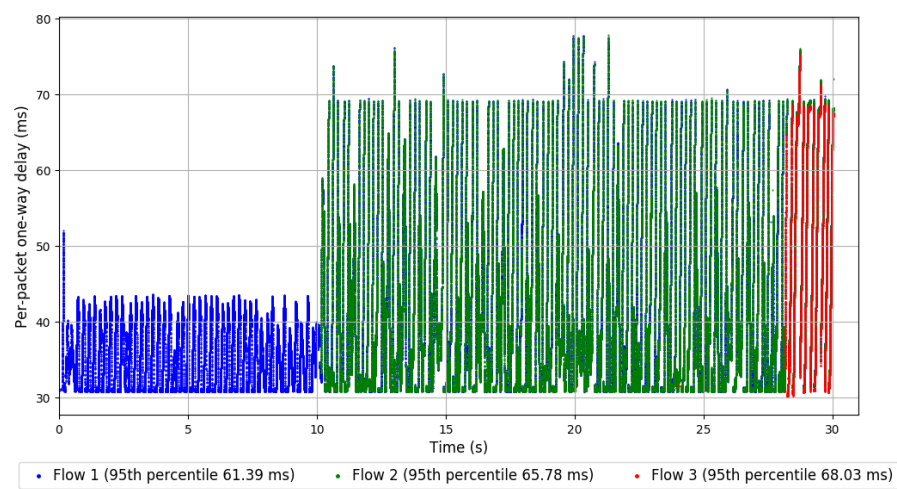
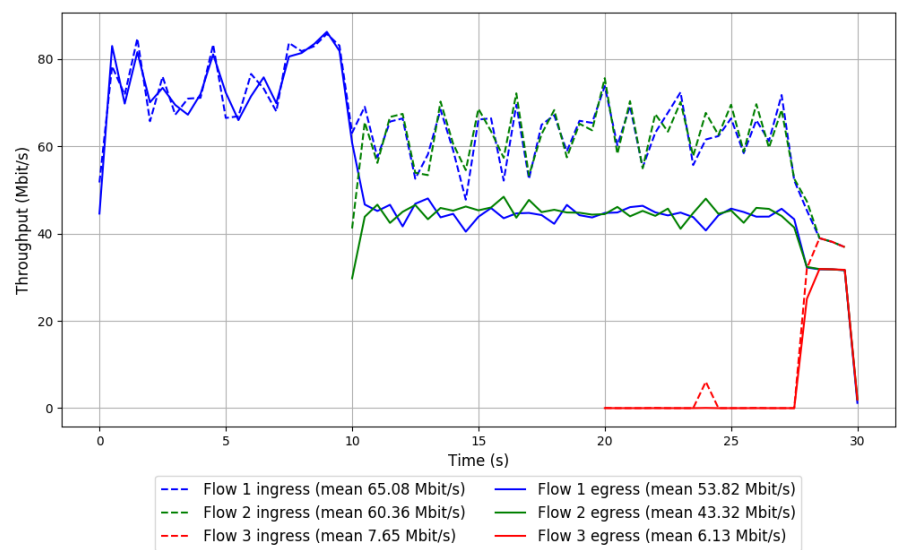
-- Flow 3:

Average throughput: 6.13 Mbit/s

95th percentile per-packet one-way delay: 68.025 ms

Loss rate: 19.52%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-02-03 05:25:34

End at: 2018-02-03 05:26:04

Local clock offset: 1.086 ms

Remote clock offset: 2.317 ms

# Below is generated by plot.py at 2018-02-03 07:15:01

# Datalink statistics

-- Total of 3 flows:

Average throughput: 86.74 Mbit/s

95th percentile per-packet one-way delay: 66.244 ms

Loss rate: 18.67%

-- Flow 1:

Average throughput: 52.46 Mbit/s

95th percentile per-packet one-way delay: 63.993 ms

Loss rate: 14.66%

-- Flow 2:

Average throughput: 38.86 Mbit/s

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

Loss rate: 26.08%

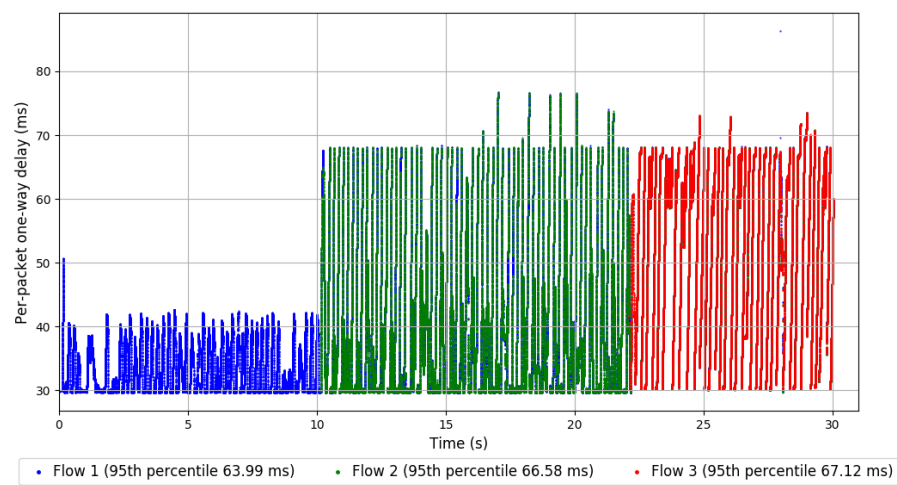
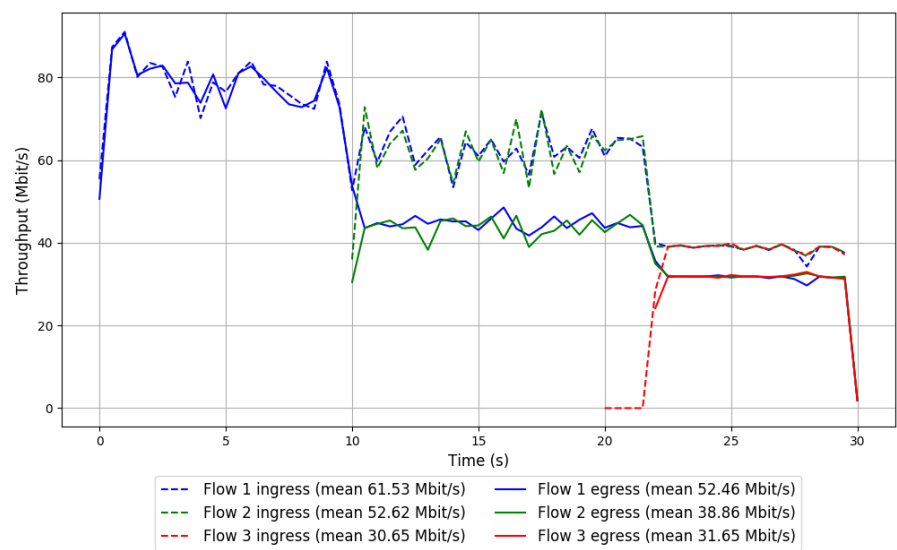
-- Flow 3:

Average throughput: 31.65 Mbit/s

95th percentile per-packet one-way delay: 67.122 ms

Loss rate: 17.33%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-02-03 05:52:30

End at: 2018-02-03 05:53:00

Local clock offset: 1.023 ms

Remote clock offset: 2.679 ms

# Below is generated by plot.py at 2018-02-03 07:17:00

# Datalink statistics

-- Total of 3 flows:

Average throughput: 87.10 Mbit/s

95th percentile per-packet one-way delay: 66.640 ms

Loss rate: 18.34%

-- Flow 1:

Average throughput: 52.37 Mbit/s

95th percentile per-packet one-way delay: 64.788 ms

Loss rate: 14.39%

-- Flow 2:

Average throughput: 39.67 Mbit/s

95th percentile per-packet one-way delay: 66.749 ms

Loss rate: 25.05%

-- Flow 3:

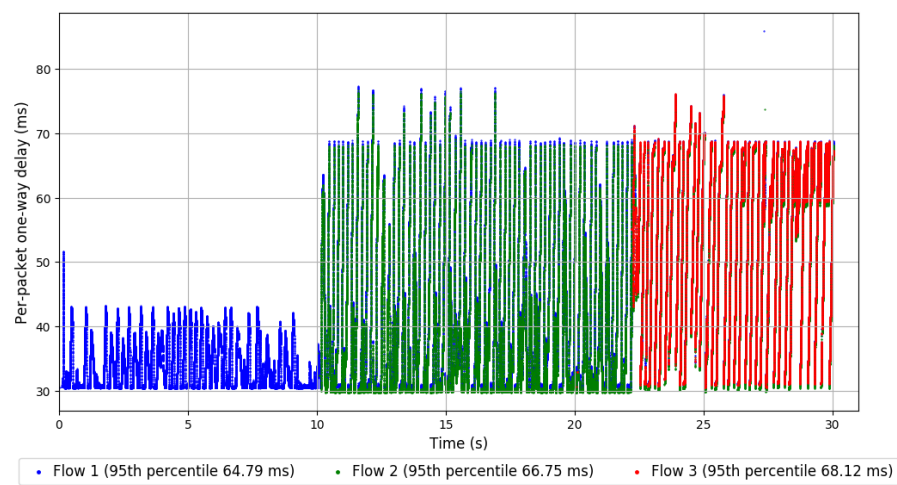
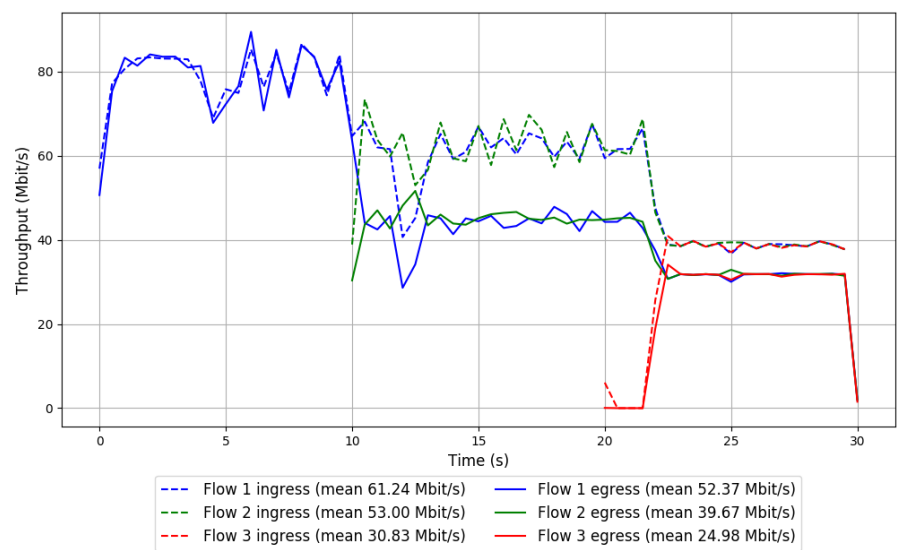
Average throughput: 24.98 Mbit/s

95th percentile per-packet one-way delay: 68.116 ms

Loss rate: 18.78%



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



Run 10: Statistics of TaoVA-100x

Start at: 2018-02-03 06:18:25

End at: 2018-02-03 06:18:55

Local clock offset: 0.956 ms

Remote clock offset: 1.254 ms

# Below is generated by plot.py at 2018-02-03 07:17:01

# Datalink statistics

-- Total of 3 flows:

Average throughput: 86.88 Mbit/s

95th percentile per-packet one-way delay: 66.443 ms

Loss rate: 17.85%

-- Flow 1:

Average throughput: 53.98 Mbit/s

95th percentile per-packet one-way delay: 63.342 ms

Loss rate: 13.94%

-- Flow 2:

Average throughput: 40.04 Mbit/s

95th percentile per-packet one-way delay: 66.627 ms

Loss rate: 24.74%

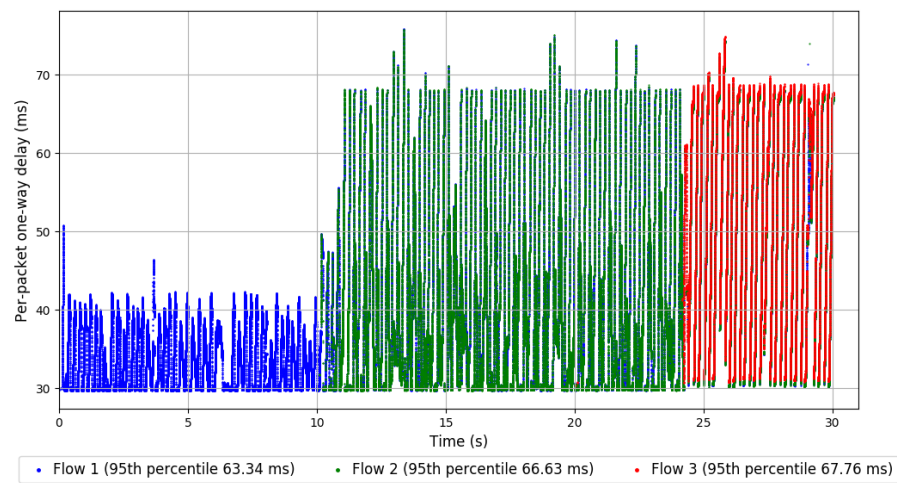
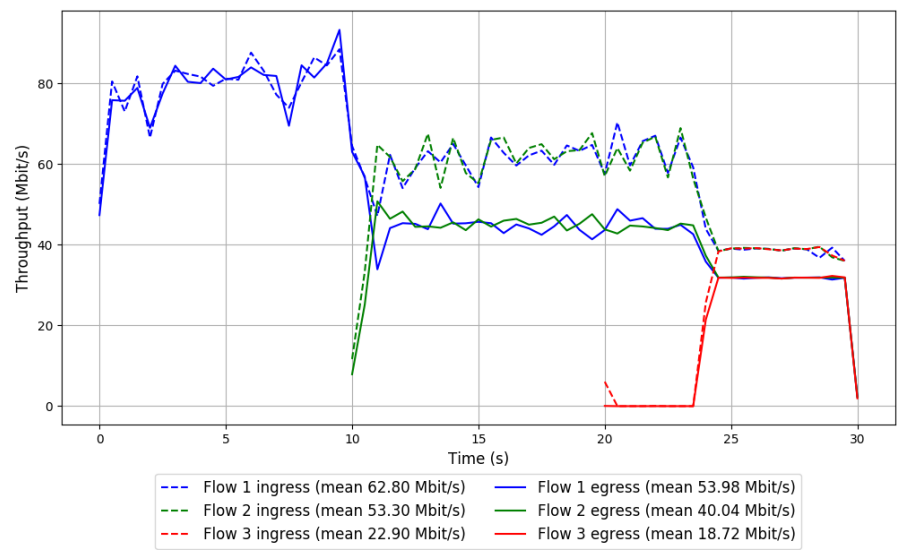
-- Flow 3:

Average throughput: 18.72 Mbit/s

95th percentile per-packet one-way delay: 67.758 ms

Loss rate: 17.99%

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



Run 1: Statistics of TCP Vegas

Start at: 2018-02-03 02:30:38

End at: 2018-02-03 02:31:08

Local clock offset: 1.109 ms

Remote clock offset: 1.207 ms

# Below is generated by plot.py at 2018-02-03 07:17:01

# Datalink statistics

-- Total of 3 flows:

Average throughput: 65.08 Mbit/s

95th percentile per-packet one-way delay: 66.559 ms

Loss rate: 0.90%

-- Flow 1:

Average throughput: 22.79 Mbit/s

95th percentile per-packet one-way delay: 63.432 ms

Loss rate: 1.63%

-- Flow 2:

Average throughput: 47.18 Mbit/s

95th percentile per-packet one-way delay: 67.596 ms

Loss rate: 0.33%

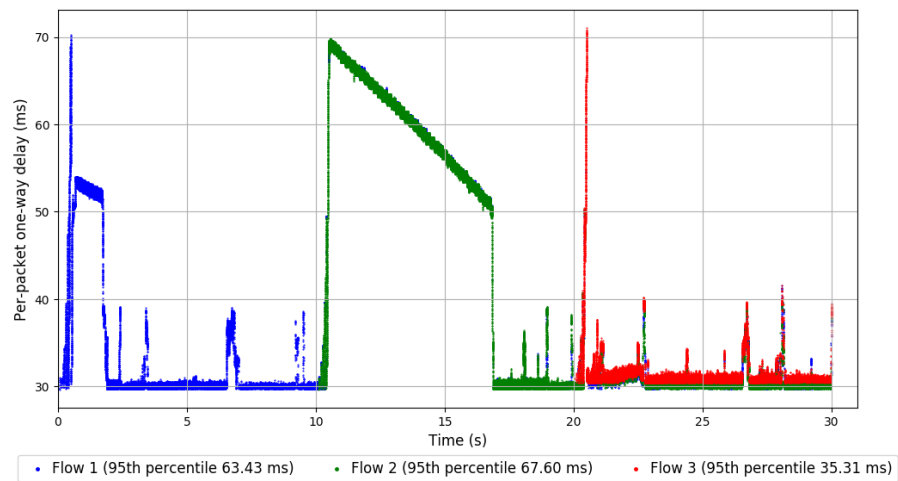
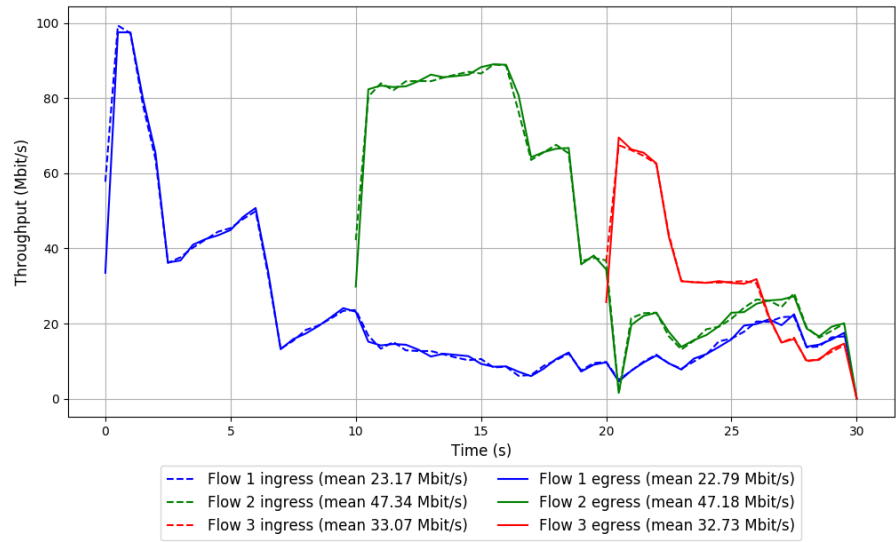
-- Flow 3:

Average throughput: 32.73 Mbit/s

95th percentile per-packet one-way delay: 35.313 ms

Loss rate: 1.01%

# Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-02-03 02:55:46

End at: 2018-02-03 02:56:16

Local clock offset: 1.103 ms

Remote clock offset: 0.262 ms

# Below is generated by plot.py at 2018-02-03 07:17:01

# Datalink statistics

-- Total of 3 flows:

Average throughput: 56.75 Mbit/s

95th percentile per-packet one-way delay: 48.049 ms

Loss rate: 1.18%

-- Flow 1:

Average throughput: 34.88 Mbit/s

95th percentile per-packet one-way delay: 49.857 ms

Loss rate: 1.25%

-- Flow 2:

Average throughput: 15.96 Mbit/s

95th percentile per-packet one-way delay: 49.990 ms

Loss rate: 0.74%

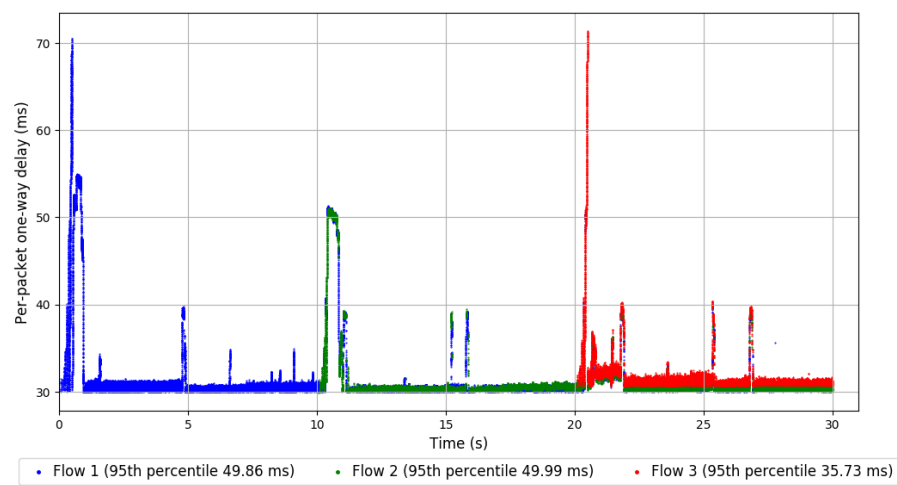
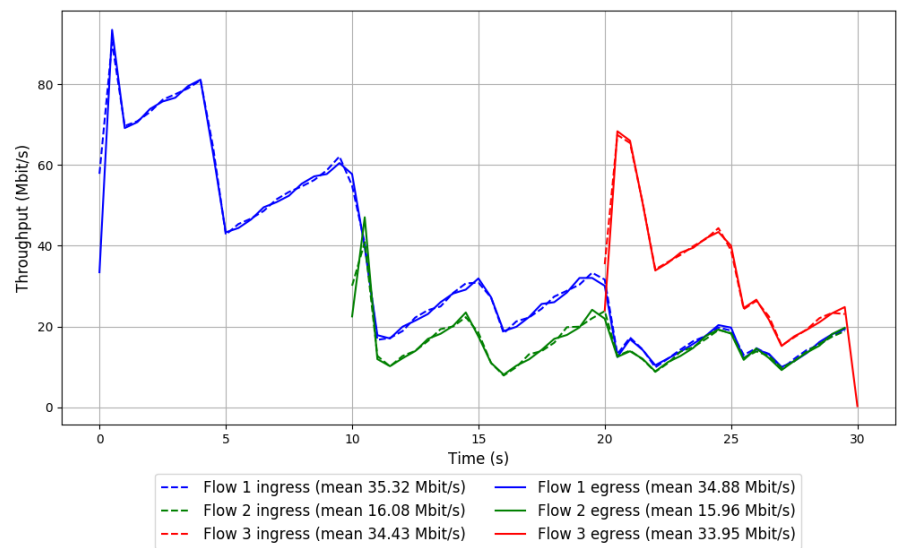
-- Flow 3:

Average throughput: 33.95 Mbit/s

95th percentile per-packet one-way delay: 35.730 ms

Loss rate: 1.38%

Run 2: Report of TCP Vegas — Data Link



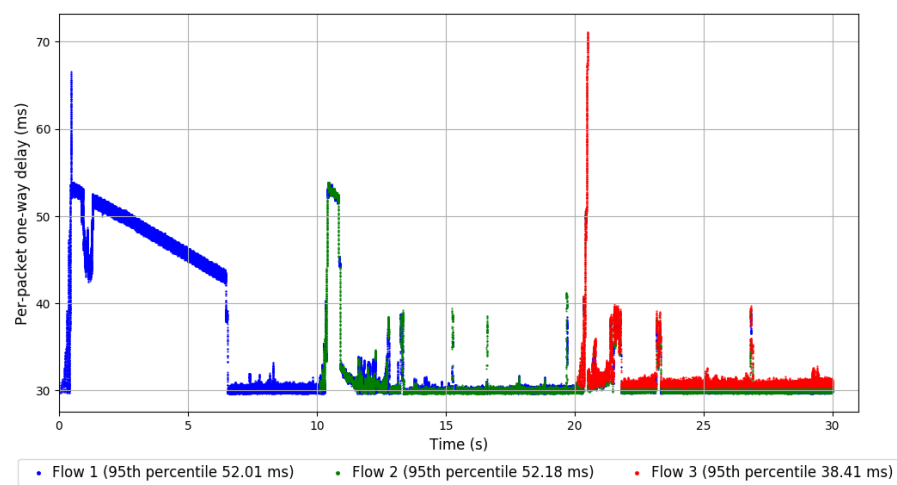
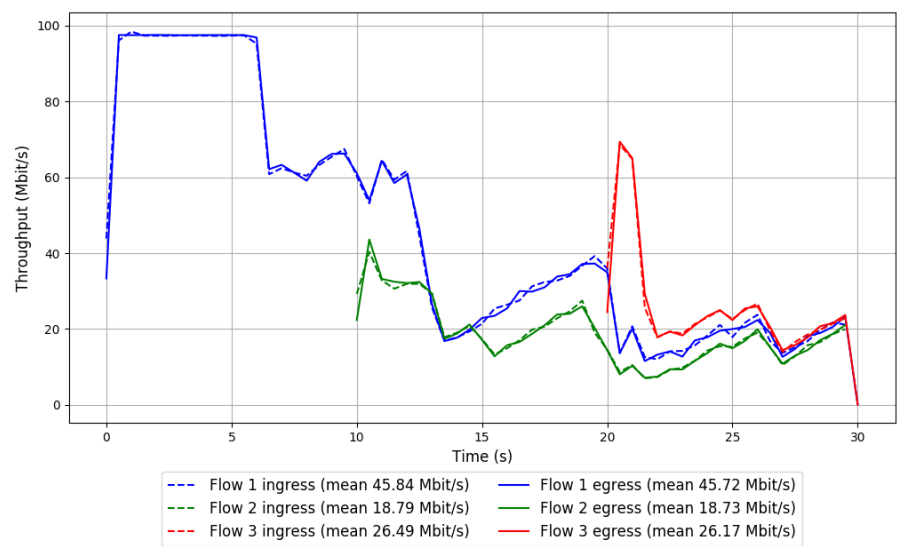
Run 3: Statistics of TCP Vegas

Start at: 2018-02-03 03:22:21  
End at: 2018-02-03 03:22:51  
Local clock offset: 1.369 ms  
Remote clock offset: -1.658 ms

# Below is generated by plot.py at 2018-02-03 07:17:01  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 66.88 Mbit/s  
95th percentile per-packet one-way delay: 51.828 ms  
Loss rate: 0.38%  
-- Flow 1:  
Average throughput: 45.72 Mbit/s  
95th percentile per-packet one-way delay: 52.010 ms  
Loss rate: 0.25%  
-- Flow 2:  
Average throughput: 18.73 Mbit/s  
95th percentile per-packet one-way delay: 52.176 ms  
Loss rate: 0.31%  
-- Flow 3:  
Average throughput: 26.17 Mbit/s  
95th percentile per-packet one-way delay: 38.406 ms  
Loss rate: 1.20%



Run 3: Report of TCP Vegas — Data Link

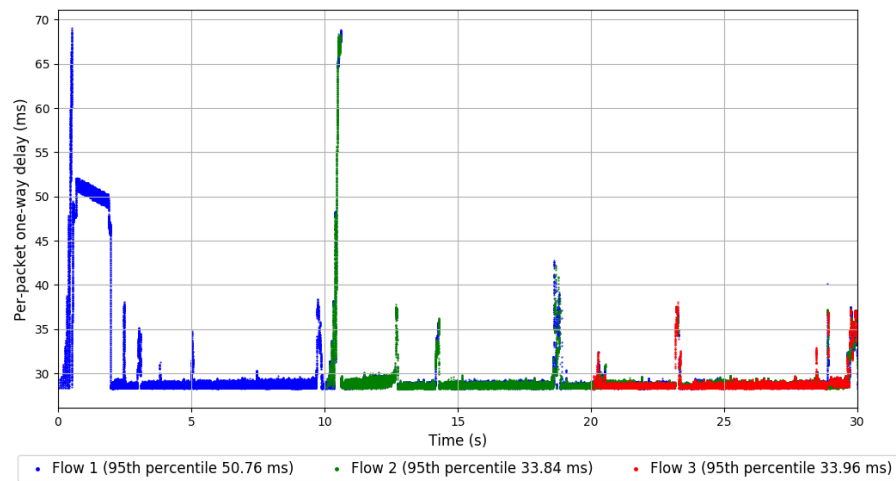
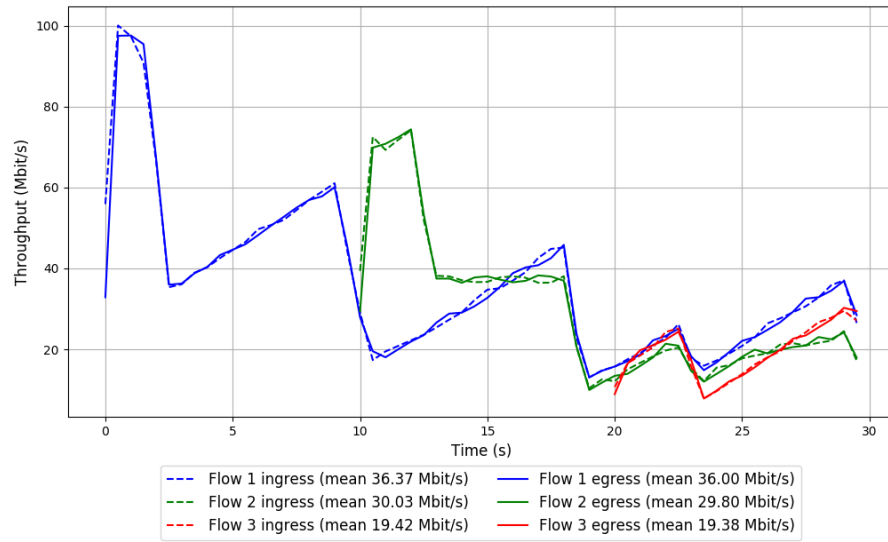


Run 4: Statistics of TCP Vegas

Start at: 2018-02-03 03:47:57  
End at: 2018-02-03 03:48:27  
Local clock offset: 1.346 ms  
Remote clock offset: -3.724 ms

# Below is generated by plot.py at 2018-02-03 07:17:01  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 62.26 Mbit/s  
95th percentile per-packet one-way delay: 50.277 ms  
Loss rate: 0.85%  
-- Flow 1:  
Average throughput: 36.00 Mbit/s  
95th percentile per-packet one-way delay: 50.755 ms  
Loss rate: 1.01%  
-- Flow 2:  
Average throughput: 29.80 Mbit/s  
95th percentile per-packet one-way delay: 33.842 ms  
Loss rate: 0.78%  
-- Flow 3:  
Average throughput: 19.38 Mbit/s  
95th percentile per-packet one-way delay: 33.956 ms  
Loss rate: 0.13%

# Run 4: Report of TCP Vegas — Data Link

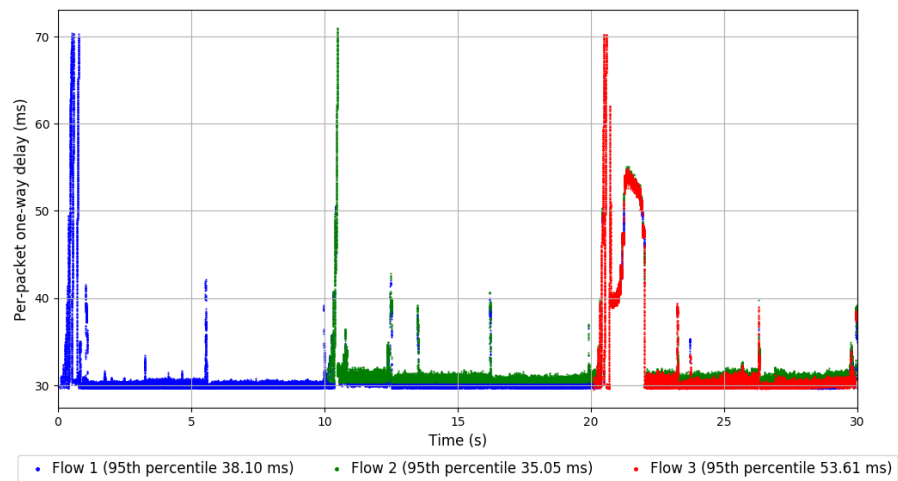
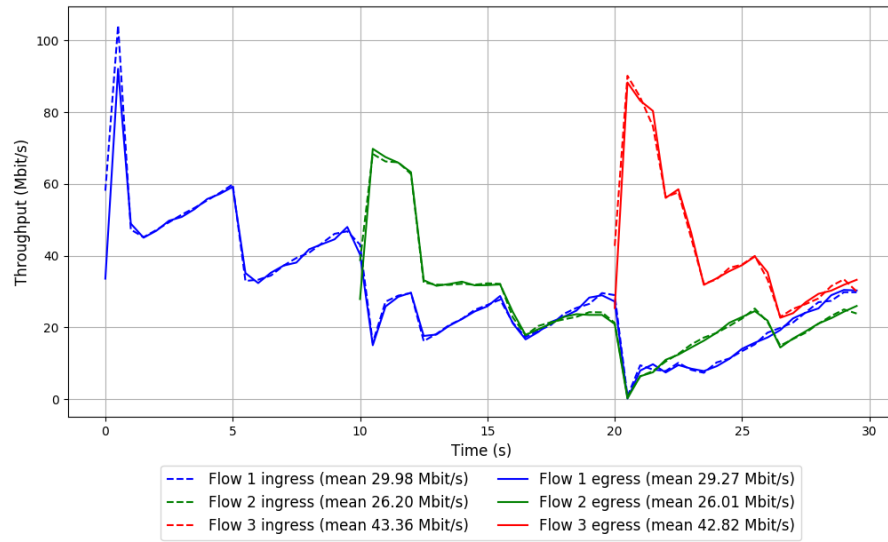


Run 5: Statistics of TCP Vegas

Start at: 2018-02-03 04:13:03  
End at: 2018-02-03 04:13:33  
Local clock offset: 1.4 ms  
Remote clock offset: -0.533 ms

# Below is generated by plot.py at 2018-02-03 07:17:01  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 60.78 Mbit/s  
95th percentile per-packet one-way delay: 50.650 ms  
Loss rate: 1.68%  
-- Flow 1:  
Average throughput: 29.27 Mbit/s  
95th percentile per-packet one-way delay: 38.104 ms  
Loss rate: 2.37%  
-- Flow 2:  
Average throughput: 26.01 Mbit/s  
95th percentile per-packet one-way delay: 35.047 ms  
Loss rate: 0.72%  
-- Flow 3:  
Average throughput: 42.82 Mbit/s  
95th percentile per-packet one-way delay: 53.612 ms  
Loss rate: 1.40%

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



Run 6: Statistics of TCP Vegas

Start at: 2018-02-03 04:38:37

End at: 2018-02-03 04:39:07

Local clock offset: 1.287 ms

Remote clock offset: 1.193 ms

# Below is generated by plot.py at 2018-02-03 07:17:01

# Datalink statistics

-- Total of 3 flows:

Average throughput: 60.24 Mbit/s

95th percentile per-packet one-way delay: 53.118 ms

Loss rate: 0.37%

-- Flow 1:

Average throughput: 33.57 Mbit/s

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

Loss rate: 0.31%

-- Flow 2:

Average throughput: 21.37 Mbit/s

95th percentile per-packet one-way delay: 38.607 ms

Loss rate: 0.69%

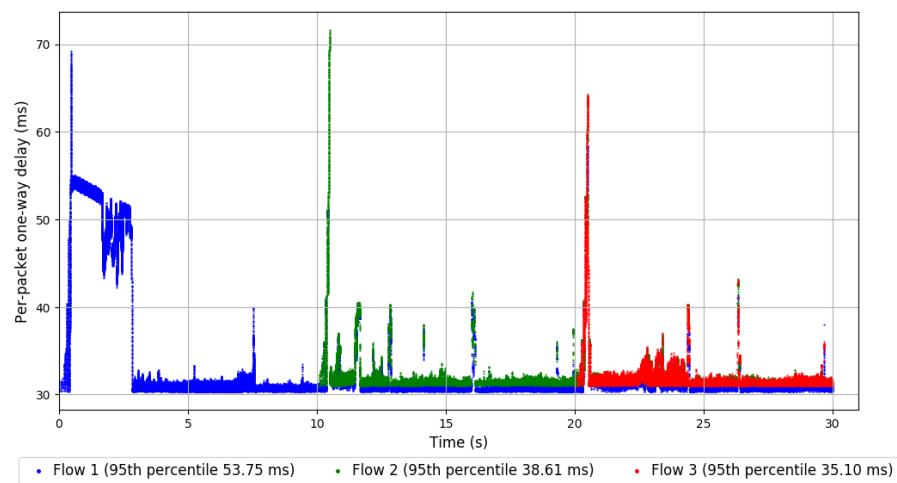
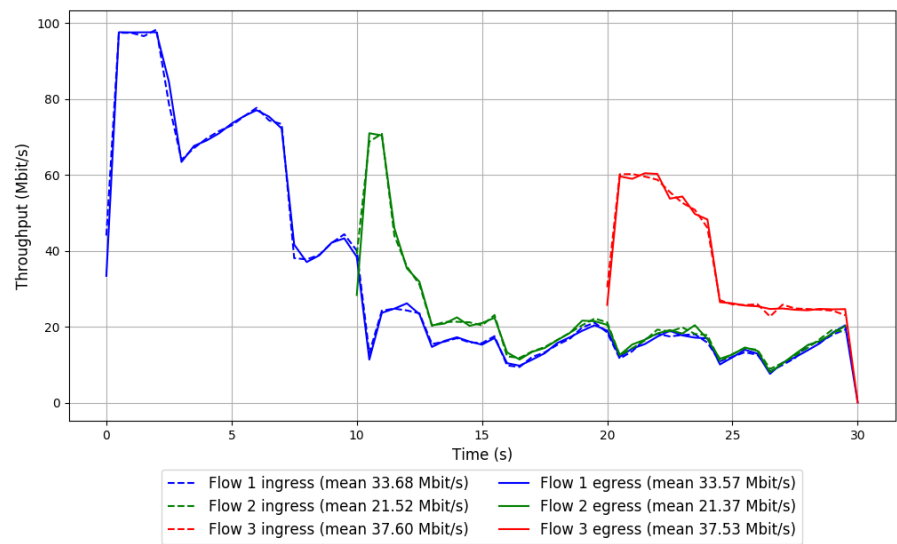
-- Flow 3:

Average throughput: 37.53 Mbit/s

95th percentile per-packet one-way delay: 35.098 ms

Loss rate: 0.19%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-02-03 05:04:40

End at: 2018-02-03 05:05:10

Local clock offset: 1.16 ms

Remote clock offset: 1.959 ms

# Below is generated by plot.py at 2018-02-03 07:17:01

# Datalink statistics

-- Total of 3 flows:

Average throughput: 49.41 Mbit/s

95th percentile per-packet one-way delay: 51.707 ms

Loss rate: 1.32%

-- Flow 1:

Average throughput: 29.06 Mbit/s

95th percentile per-packet one-way delay: 53.255 ms

Loss rate: 1.40%

-- Flow 2:

Average throughput: 19.35 Mbit/s

95th percentile per-packet one-way delay: 38.010 ms

Loss rate: 0.96%

-- Flow 3:

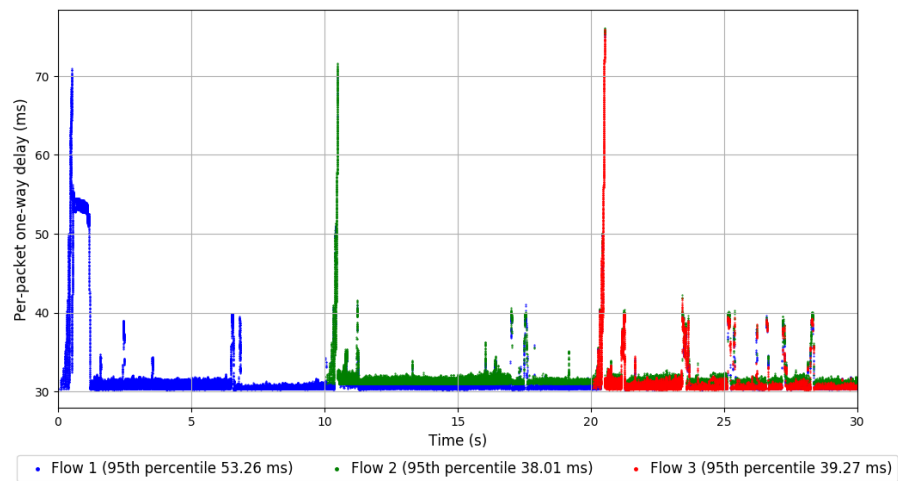
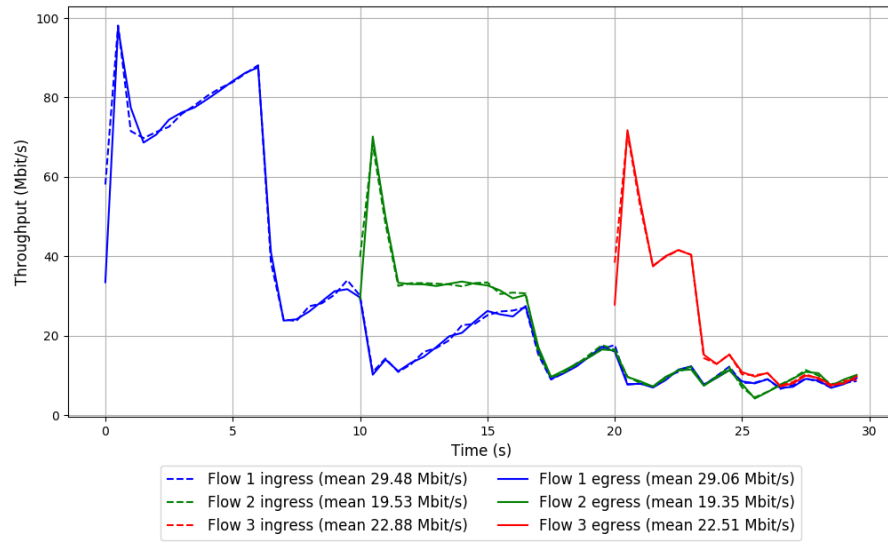
Average throughput: 22.51 Mbit/s

95th percentile per-packet one-way delay: 39.266 ms

Loss rate: 1.62%



# Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-02-03 05:31:49

End at: 2018-02-03 05:32:19

Local clock offset: 1.091 ms

Remote clock offset: 2.672 ms

# Below is generated by plot.py at 2018-02-03 07:17:01

# Datalink statistics

-- Total of 3 flows:

Average throughput: 44.81 Mbit/s

95th percentile per-packet one-way delay: 41.496 ms

Loss rate: 2.34%

-- Flow 1:

Average throughput: 18.19 Mbit/s

95th percentile per-packet one-way delay: 39.203 ms

Loss rate: 1.39%

-- Flow 2:

Average throughput: 26.02 Mbit/s

95th percentile per-packet one-way delay: 39.307 ms

Loss rate: 2.60%

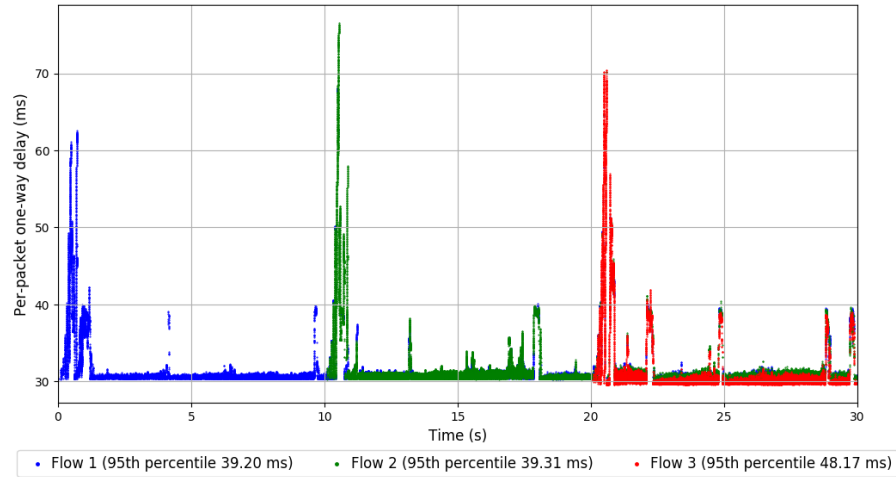
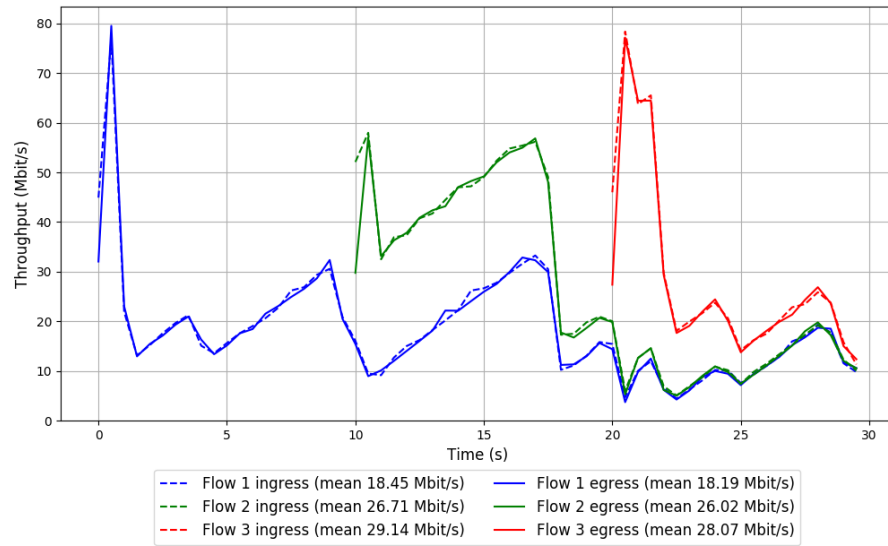
-- Flow 3:

Average throughput: 28.07 Mbit/s

95th percentile per-packet one-way delay: 48.170 ms

Loss rate: 3.67%

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



Run 9: Statistics of TCP Vegas

Start at: 2018-02-03 05:58:21

End at: 2018-02-03 05:58:51

Local clock offset: 1.003 ms

Remote clock offset: 0.418 ms

# Below is generated by plot.py at 2018-02-03 07:17:01

# Datalink statistics

-- Total of 3 flows:

Average throughput: 49.74 Mbit/s

95th percentile per-packet one-way delay: 54.613 ms

Loss rate: 0.81%

-- Flow 1:

Average throughput: 20.33 Mbit/s

95th percentile per-packet one-way delay: 33.046 ms

Loss rate: 0.66%

-- Flow 2:

Average throughput: 23.81 Mbit/s

95th percentile per-packet one-way delay: 55.078 ms

Loss rate: 1.59%

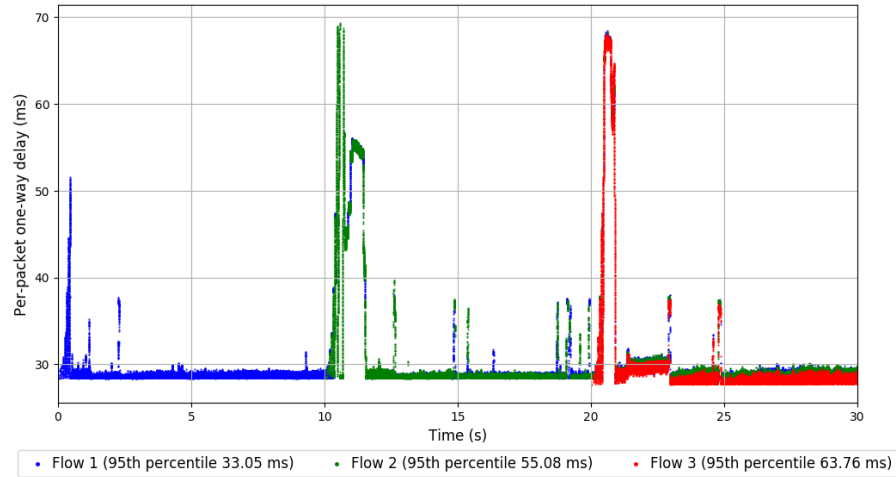
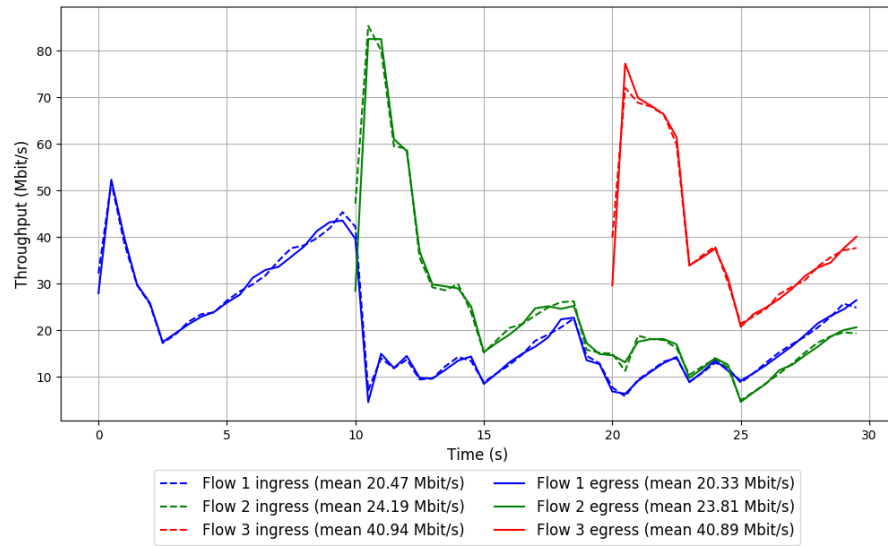
-- Flow 3:

Average throughput: 40.89 Mbit/s

95th percentile per-packet one-way delay: 63.763 ms

Loss rate: 0.13%

# Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-02-03 06:24:11

End at: 2018-02-03 06:24:41

Local clock offset: 0.911 ms

Remote clock offset: 0.961 ms

# Below is generated by plot.py at 2018-02-03 07:17:04

# Datalink statistics

-- Total of 3 flows:

Average throughput: 84.02 Mbit/s

95th percentile per-packet one-way delay: 52.270 ms

Loss rate: 0.38%

-- Flow 1:

Average throughput: 54.85 Mbit/s

95th percentile per-packet one-way delay: 52.727 ms

Loss rate: 0.55%

-- Flow 2:

Average throughput: 28.88 Mbit/s

95th percentile per-packet one-way delay: 33.489 ms

Loss rate: 0.03%

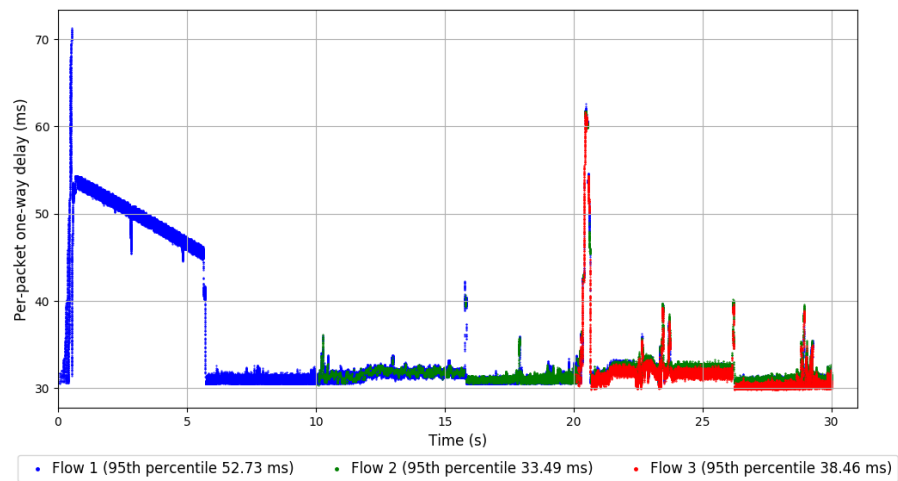
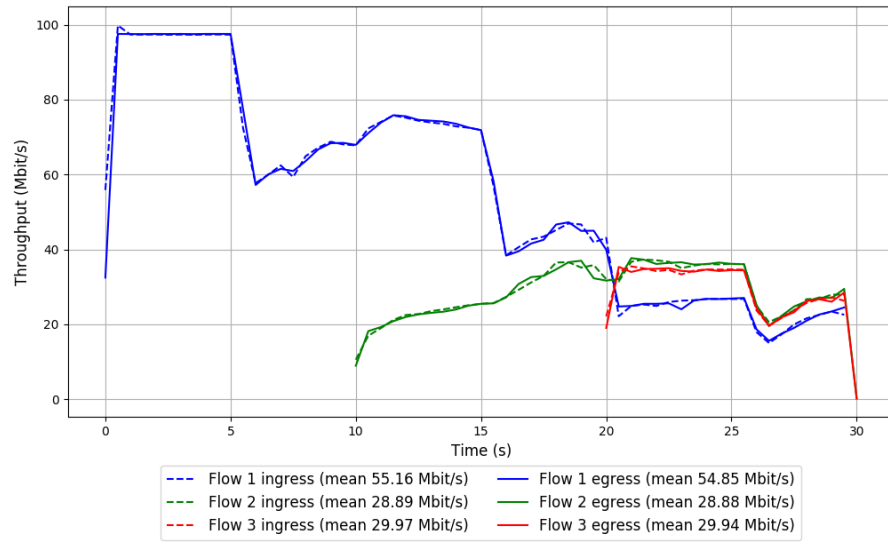
-- Flow 3:

Average throughput: 29.94 Mbit/s

95th percentile per-packet one-way delay: 38.462 ms

Loss rate: 0.10%

# Run 10: Report of TCP Vegas — Data Link



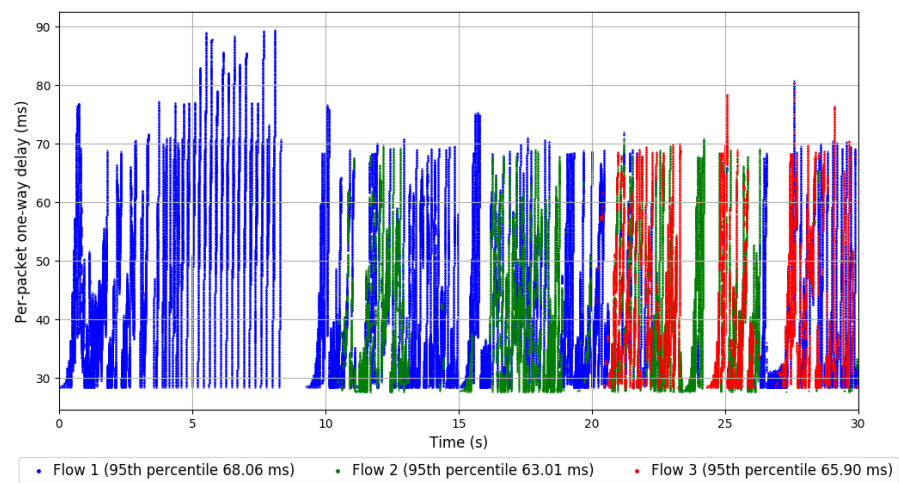
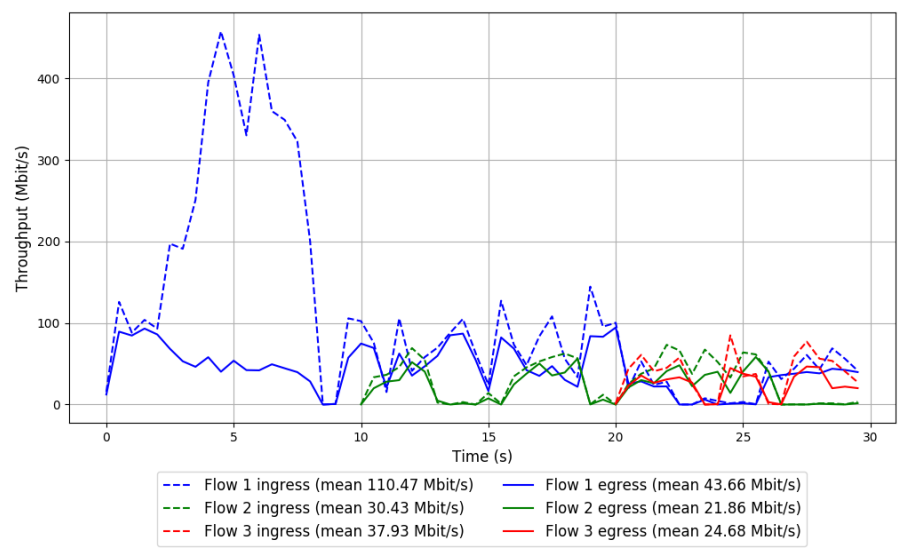
Run 1: Statistics of Verus

Start at: 2018-02-03 02:39:00  
End at: 2018-02-03 02:39:30  
Local clock offset: 1.034 ms  
Remote clock offset: -1.274 ms

# Below is generated by plot.py at 2018-02-03 07:17:11  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 66.11 Mbit/s  
95th percentile per-packet one-way delay: 66.812 ms  
Loss rate: 53.73%  
-- Flow 1:  
Average throughput: 43.66 Mbit/s  
95th percentile per-packet one-way delay: 68.055 ms  
Loss rate: 60.48%  
-- Flow 2:  
Average throughput: 21.86 Mbit/s  
95th percentile per-packet one-way delay: 63.010 ms  
Loss rate: 28.18%  
-- Flow 3:  
Average throughput: 24.68 Mbit/s  
95th percentile per-packet one-way delay: 65.901 ms  
Loss rate: 34.94%



Run 1: Report of Verus — Data Link

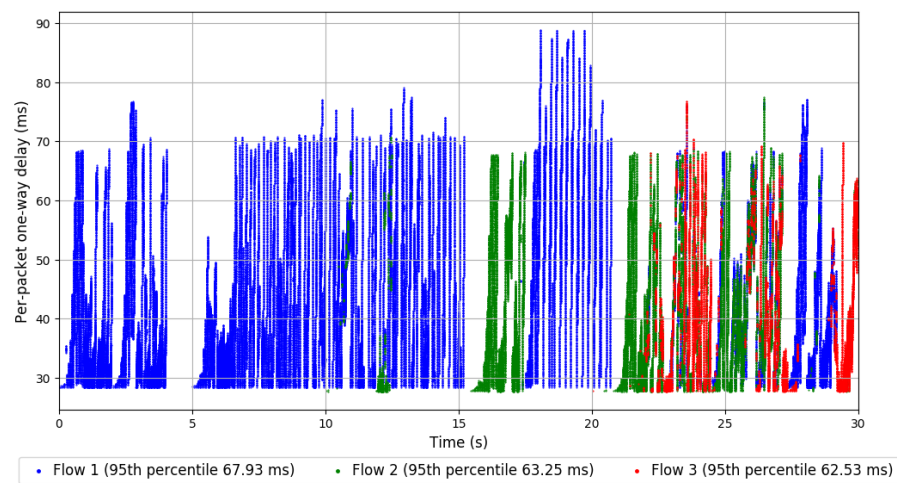
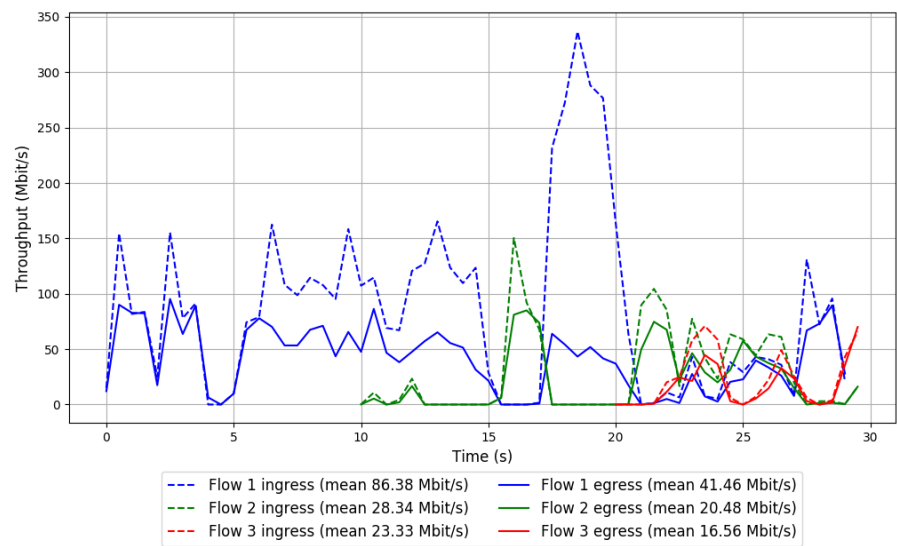


Run 2: Statistics of Verus

Start at: 2018-02-03 03:04:28  
End at: 2018-02-03 03:04:58  
Local clock offset: 1.283 ms  
Remote clock offset: -2.498 ms

# Below is generated by plot.py at 2018-02-03 07:17:11  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 59.71 Mbit/s  
95th percentile per-packet one-way delay: 66.504 ms  
Loss rate: 46.33%  
-- Flow 1:  
Average throughput: 41.46 Mbit/s  
95th percentile per-packet one-way delay: 67.931 ms  
Loss rate: 52.09%  
-- Flow 2:  
Average throughput: 20.48 Mbit/s  
95th percentile per-packet one-way delay: 63.247 ms  
Loss rate: 27.62%  
-- Flow 3:  
Average throughput: 16.56 Mbit/s  
95th percentile per-packet one-way delay: 62.533 ms  
Loss rate: 28.81%

Run 2: Report of Verus — Data Link

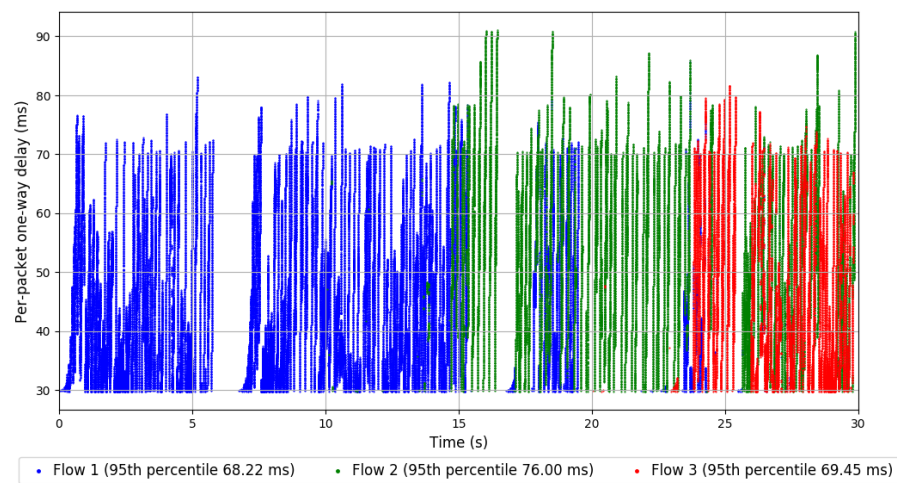
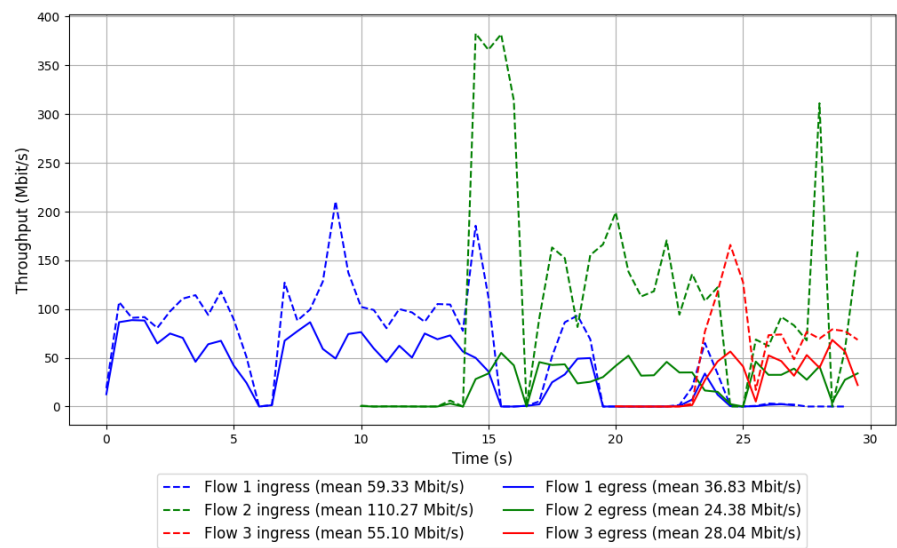


Run 3: Statistics of Verus

Start at: 2018-02-03 03:30:55  
End at: 2018-02-03 03:31:25  
Local clock offset: 1.344 ms  
Remote clock offset: -1.826 ms

# Below is generated by plot.py at 2018-02-03 07:17:36  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 59.17 Mbit/s  
95th percentile per-packet one-way delay: 70.515 ms  
Loss rate: 60.23%  
-- Flow 1:  
Average throughput: 36.83 Mbit/s  
95th percentile per-packet one-way delay: 68.217 ms  
Loss rate: 41.38%  
-- Flow 2:  
Average throughput: 24.38 Mbit/s  
95th percentile per-packet one-way delay: 76.002 ms  
Loss rate: 77.86%  
-- Flow 3:  
Average throughput: 28.04 Mbit/s  
95th percentile per-packet one-way delay: 69.450 ms  
Loss rate: 49.03%

Run 3: Report of Verus — Data Link

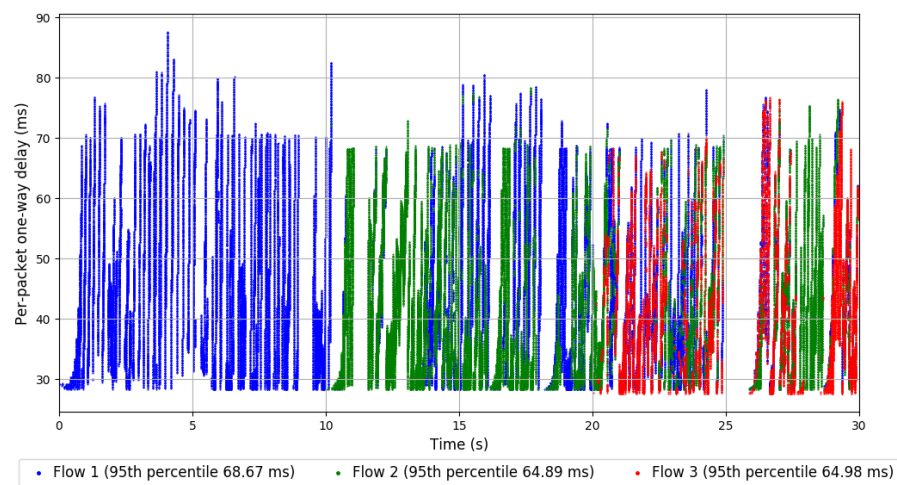
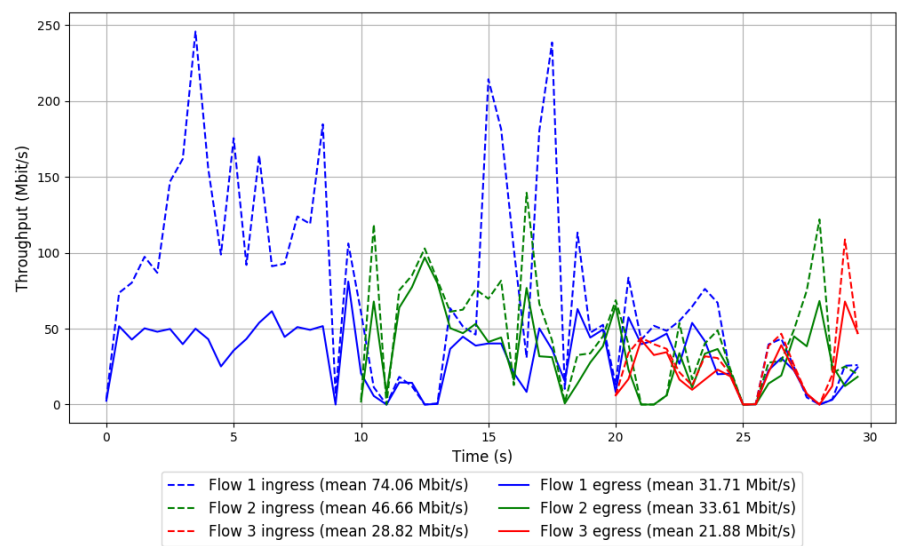


Run 4: Statistics of Verus

Start at: 2018-02-03 03:56:25  
End at: 2018-02-03 03:56:55  
Local clock offset: 1.386 ms  
Remote clock offset: -3.303 ms

# Below is generated by plot.py at 2018-02-03 07:17:36  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 61.33 Mbit/s  
95th percentile per-packet one-way delay: 67.040 ms  
Loss rate: 46.44%  
-- Flow 1:  
Average throughput: 31.71 Mbit/s  
95th percentile per-packet one-way delay: 68.674 ms  
Loss rate: 57.14%  
-- Flow 2:  
Average throughput: 33.61 Mbit/s  
95th percentile per-packet one-way delay: 64.892 ms  
Loss rate: 27.86%  
-- Flow 3:  
Average throughput: 21.88 Mbit/s  
95th percentile per-packet one-way delay: 64.984 ms  
Loss rate: 23.83%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-02-03 04:21:18

End at: 2018-02-03 04:21:48

Local clock offset: 1.394 ms

Remote clock offset: 0.152 ms

# Below is generated by plot.py at 2018-02-03 07:17:39

# Datalink statistics

-- Total of 3 flows:

Average throughput: 66.42 Mbit/s

95th percentile per-packet one-way delay: 67.953 ms

Loss rate: 36.50%

-- Flow 1:

Average throughput: 40.44 Mbit/s

95th percentile per-packet one-way delay: 68.386 ms

Loss rate: 37.72%

-- Flow 2:

Average throughput: 24.89 Mbit/s

95th percentile per-packet one-way delay: 66.439 ms

Loss rate: 32.50%

-- Flow 3:

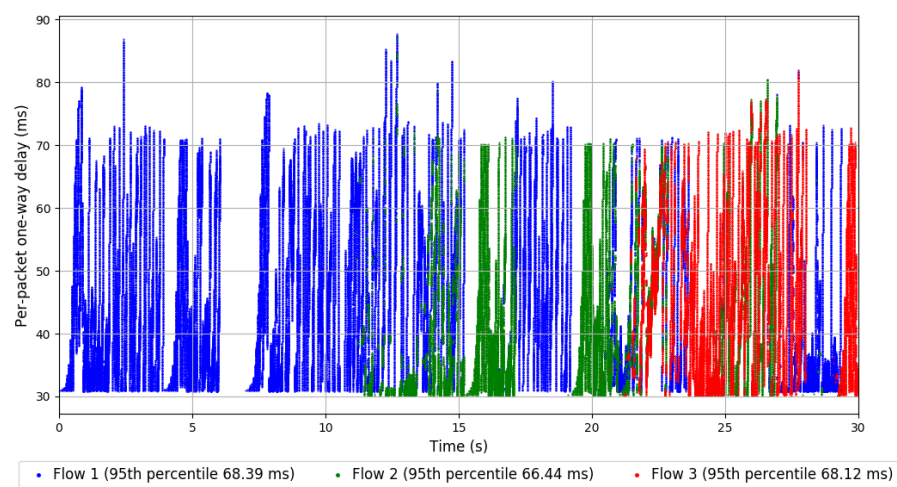
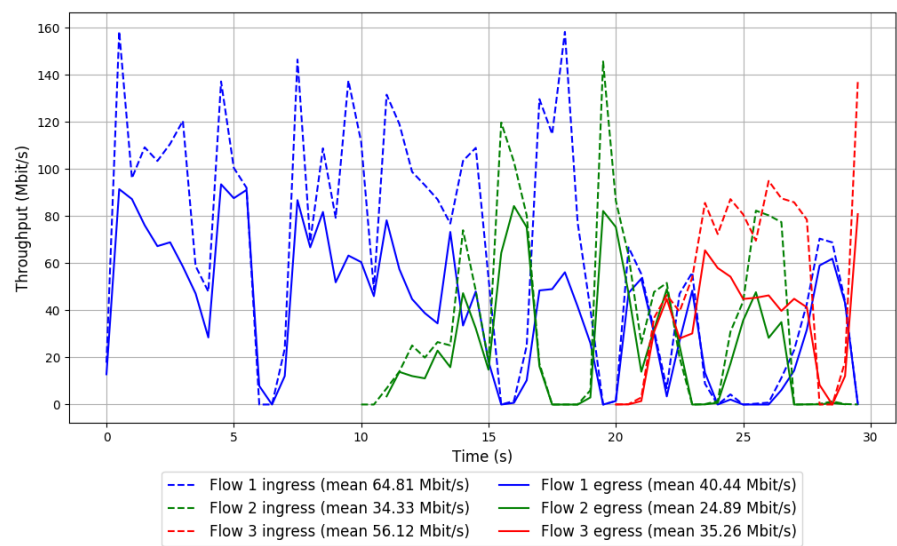
Average throughput: 35.26 Mbit/s

95th percentile per-packet one-way delay: 68.122 ms

Loss rate: 37.16%



Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

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

End at: 2018-02-03 04:47:52

Local clock offset: 1.296 ms

Remote clock offset: 1.294 ms

# Below is generated by plot.py at 2018-02-03 07:18:05

# Datalink statistics

-- Total of 3 flows:

Average throughput: 67.03 Mbit/s

95th percentile per-packet one-way delay: 68.180 ms

Loss rate: 34.70%

-- Flow 1:

Average throughput: 53.33 Mbit/s

95th percentile per-packet one-way delay: 68.136 ms

Loss rate: 35.12%

-- Flow 2:

Average throughput: 17.12 Mbit/s

95th percentile per-packet one-way delay: 68.466 ms

Loss rate: 35.59%

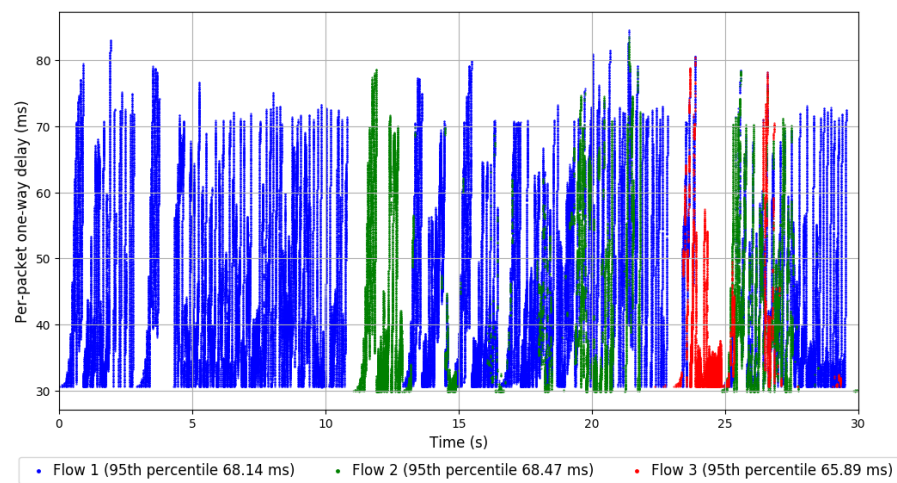
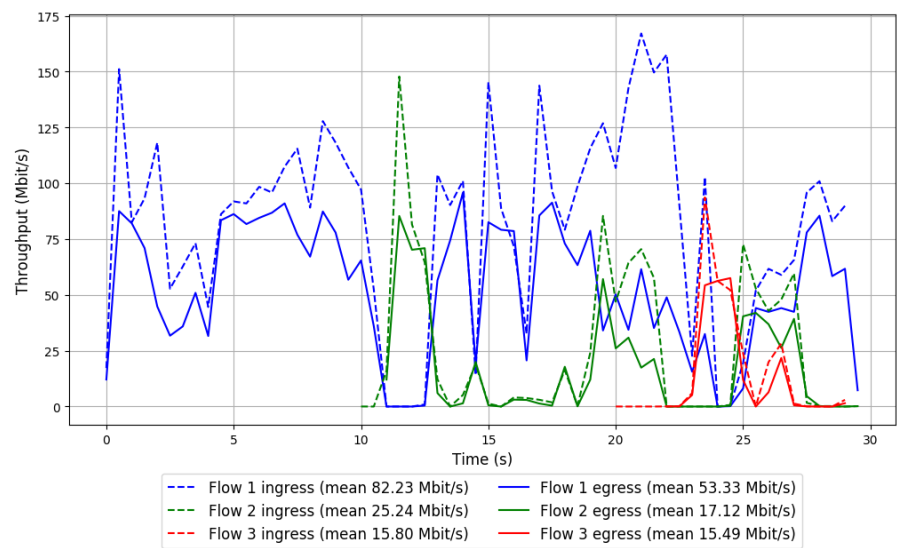
-- Flow 3:

Average throughput: 15.49 Mbit/s

95th percentile per-packet one-way delay: 65.895 ms

Loss rate: 24.32%

Run 6: Report of Verus — Data Link

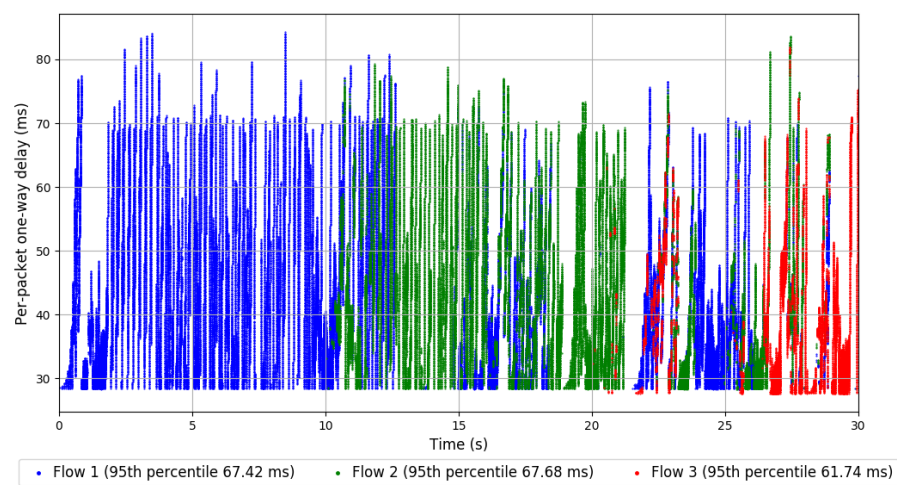
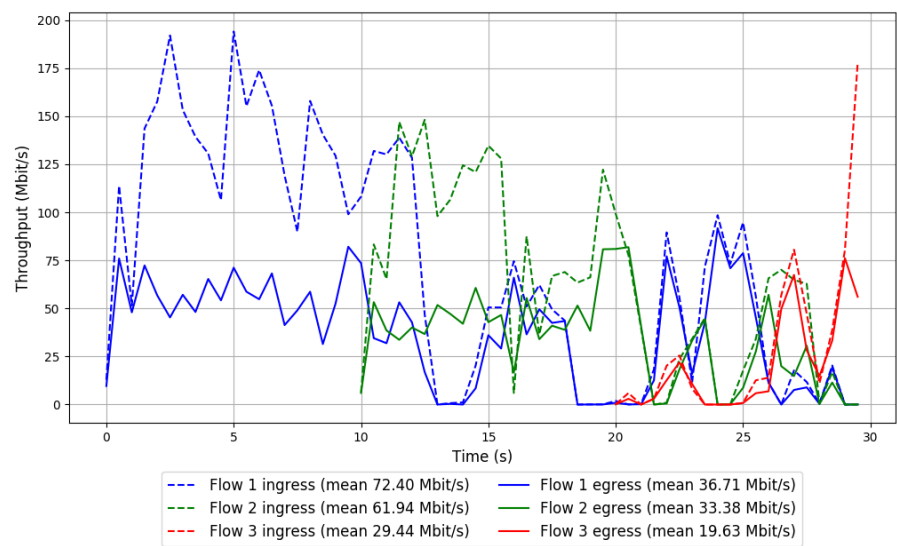


Run 7: Statistics of Verus

Start at: 2018-02-03 05:13:29  
End at: 2018-02-03 05:13:59  
Local clock offset: 1.077 ms  
Remote clock offset: -0.339 ms

# Below is generated by plot.py at 2018-02-03 07:18:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 65.35 Mbit/s  
95th percentile per-packet one-way delay: 67.224 ms  
Loss rate: 46.94%  
-- Flow 1:  
Average throughput: 36.71 Mbit/s  
95th percentile per-packet one-way delay: 67.420 ms  
Loss rate: 49.27%  
-- Flow 2:  
Average throughput: 33.38 Mbit/s  
95th percentile per-packet one-way delay: 67.676 ms  
Loss rate: 46.13%  
-- Flow 3:  
Average throughput: 19.63 Mbit/s  
95th percentile per-packet one-way delay: 61.744 ms  
Loss rate: 33.07%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-02-03 05:40:53

End at: 2018-02-03 05:41:23

Local clock offset: 0.942 ms

Remote clock offset: 0.678 ms

# Below is generated by plot.py at 2018-02-03 07:18:12

# Datalink statistics

-- Total of 3 flows:

Average throughput: 57.02 Mbit/s

95th percentile per-packet one-way delay: 68.447 ms

Loss rate: 54.96%

-- Flow 1:

Average throughput: 46.40 Mbit/s

95th percentile per-packet one-way delay: 68.936 ms

Loss rate: 57.55%

-- Flow 2:

Average throughput: 13.39 Mbit/s

95th percentile per-packet one-way delay: 65.702 ms

Loss rate: 41.28%

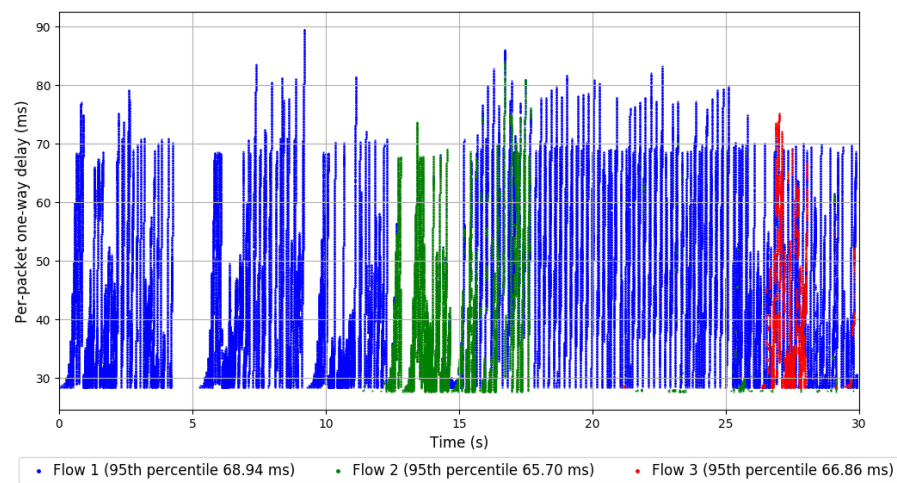
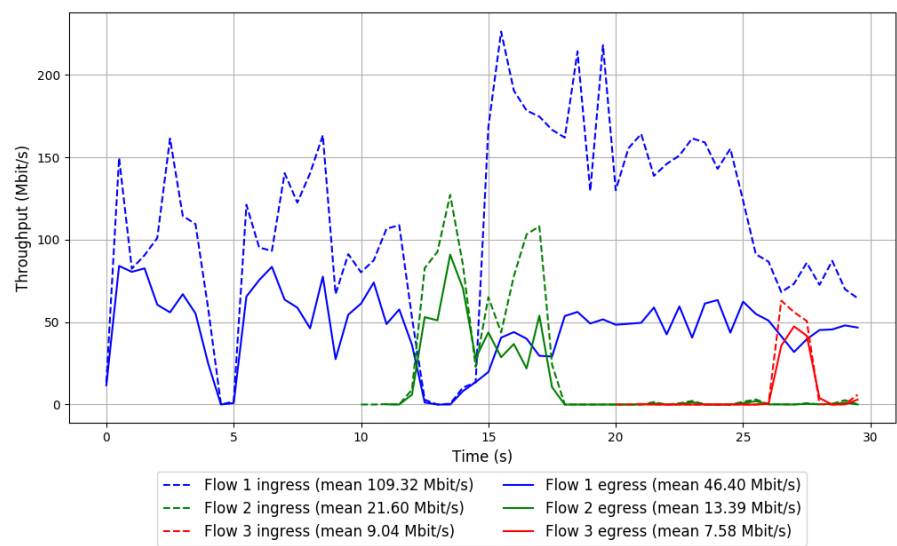
-- Flow 3:

Average throughput: 7.58 Mbit/s

95th percentile per-packet one-way delay: 66.861 ms

Loss rate: 25.46%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-02-03 06:07:02

End at: 2018-02-03 06:07:32

Local clock offset: 0.925 ms

Remote clock offset: 2.175 ms

# Below is generated by plot.py at 2018-02-03 07:18:19

# Datalink statistics

-- Total of 3 flows:

Average throughput: 65.44 Mbit/s

95th percentile per-packet one-way delay: 70.427 ms

Loss rate: 51.81%

-- Flow 1:

Average throughput: 36.24 Mbit/s

95th percentile per-packet one-way delay: 68.617 ms

Loss rate: 34.16%

-- Flow 2:

Average throughput: 40.85 Mbit/s

95th percentile per-packet one-way delay: 74.209 ms

Loss rate: 66.34%

-- Flow 3:

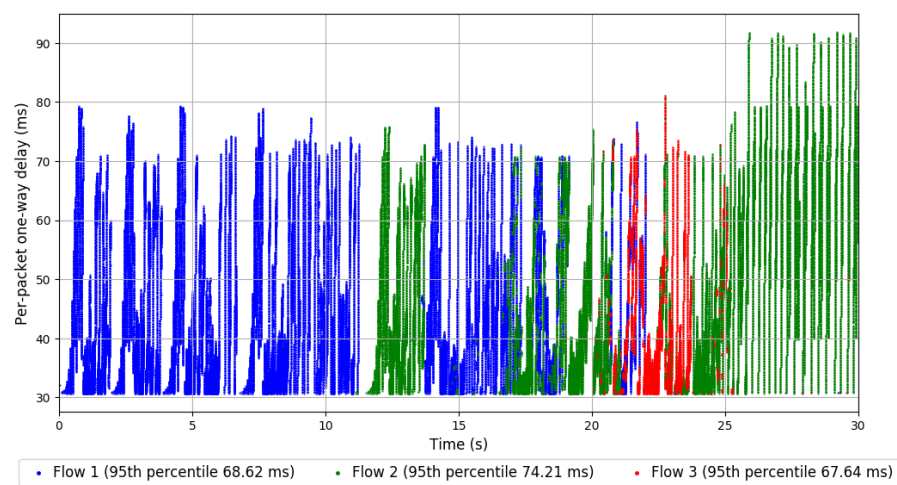
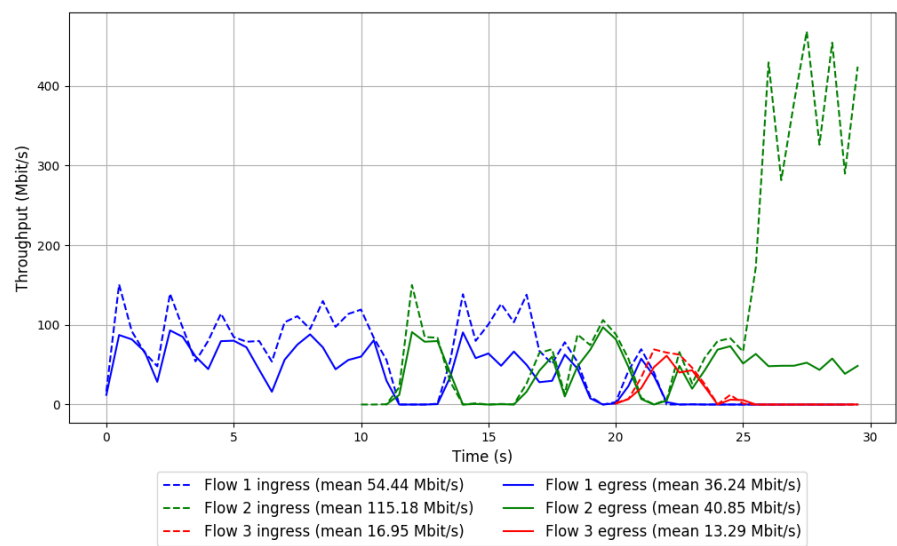
Average throughput: 13.29 Mbit/s

95th percentile per-packet one-way delay: 67.644 ms

Loss rate: 22.02%



Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-02-03 06:32:42

End at: 2018-02-03 06:33:12

Local clock offset: 0.878 ms

Remote clock offset: -1.94 ms

# Below is generated by plot.py at 2018-02-03 07:18:20

# Datalink statistics

-- Total of 3 flows:

Average throughput: 67.55 Mbit/s

95th percentile per-packet one-way delay: 65.850 ms

Loss rate: 37.89%

-- Flow 1:

Average throughput: 55.54 Mbit/s

95th percentile per-packet one-way delay: 65.889 ms

Loss rate: 40.07%

-- Flow 2:

Average throughput: 12.72 Mbit/s

95th percentile per-packet one-way delay: 64.168 ms

Loss rate: 22.55%

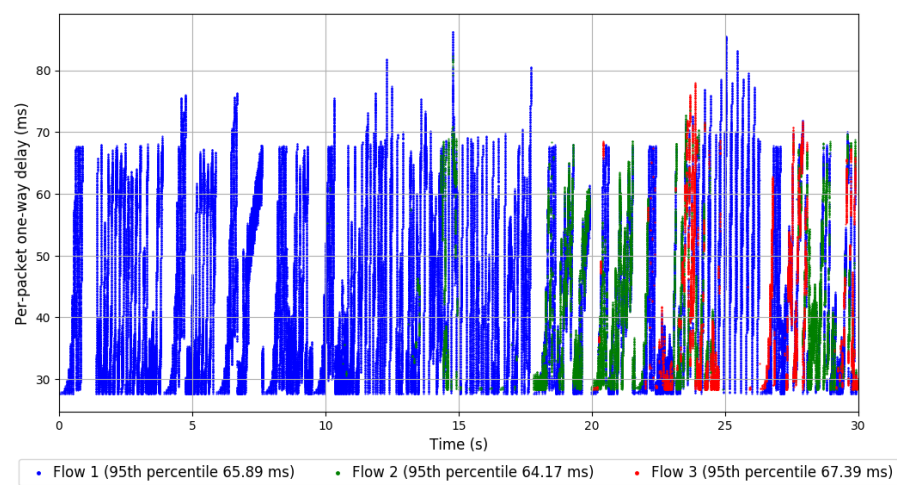
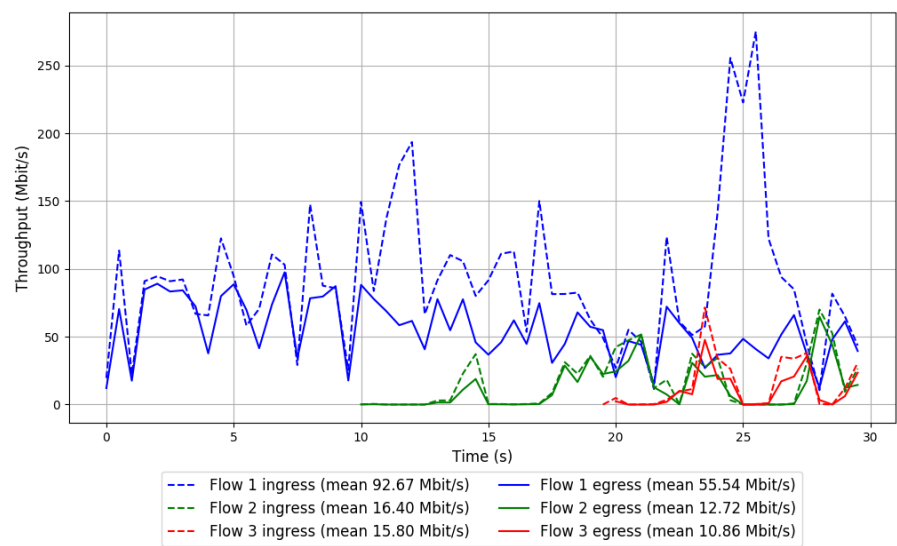
-- Flow 3:

Average throughput: 10.86 Mbit/s

95th percentile per-packet one-way delay: 67.395 ms

Loss rate: 31.30%

Run 10: Report of Verus — Data Link

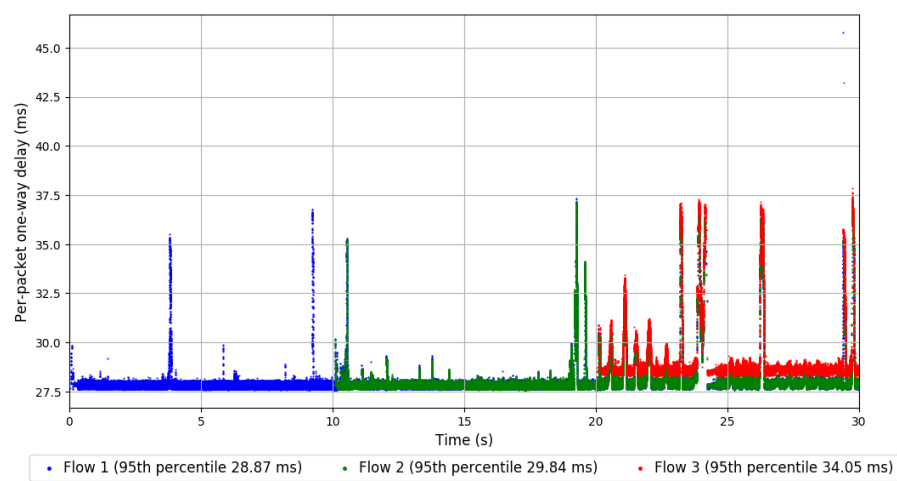
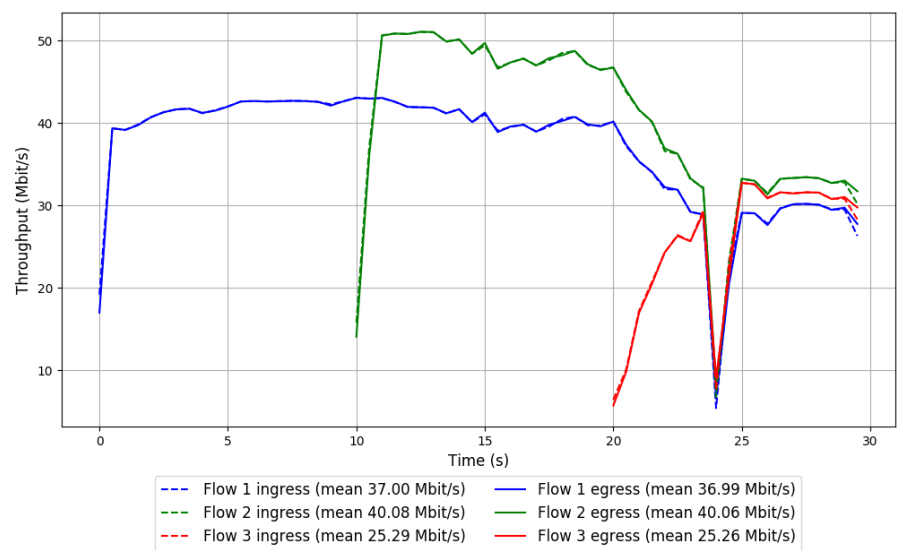


Run 1: Statistics of Copa

Start at: 2018-02-03 02:15:09  
End at: 2018-02-03 02:15:39  
Local clock offset: 0.975 ms  
Remote clock offset: -1.243 ms

# Below is generated by plot.py at 2018-02-03 07:19:17  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 72.05 Mbit/s  
95th percentile per-packet one-way delay: 29.860 ms  
Loss rate: 0.04%  
-- Flow 1:  
Average throughput: 36.99 Mbit/s  
95th percentile per-packet one-way delay: 28.866 ms  
Loss rate: 0.03%  
-- Flow 2:  
Average throughput: 40.06 Mbit/s  
95th percentile per-packet one-way delay: 29.845 ms  
Loss rate: 0.04%  
-- Flow 3:  
Average throughput: 25.26 Mbit/s  
95th percentile per-packet one-way delay: 34.052 ms  
Loss rate: 0.10%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-02-03 02:40:27

End at: 2018-02-03 02:40:57

Local clock offset: 1.144 ms

Remote clock offset: 1.261 ms

# Below is generated by plot.py at 2018-02-03 07:19:17

# Datalink statistics

-- Total of 3 flows:

Average throughput: 62.61 Mbit/s

95th percentile per-packet one-way delay: 38.105 ms

Loss rate: 0.49%

-- Flow 1:

Average throughput: 33.73 Mbit/s

95th percentile per-packet one-way delay: 37.737 ms

Loss rate: 0.47%

-- Flow 2:

Average throughput: 30.00 Mbit/s

95th percentile per-packet one-way delay: 38.683 ms

Loss rate: 0.47%

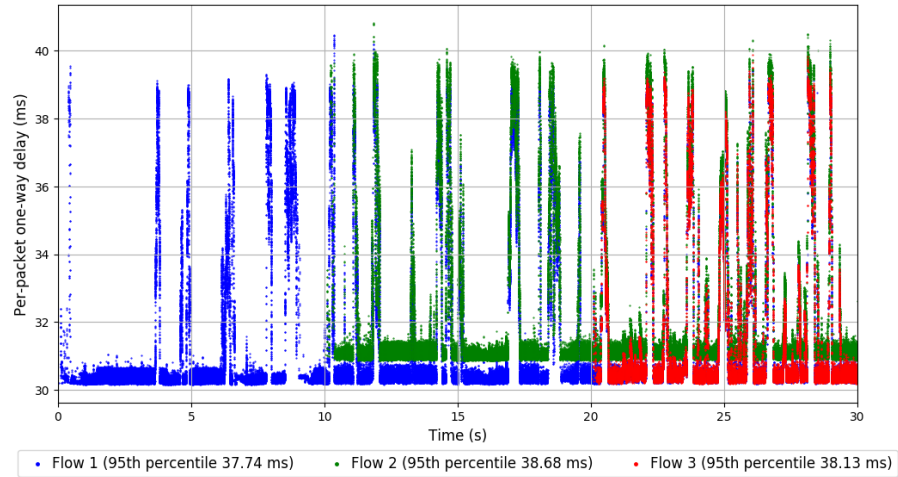
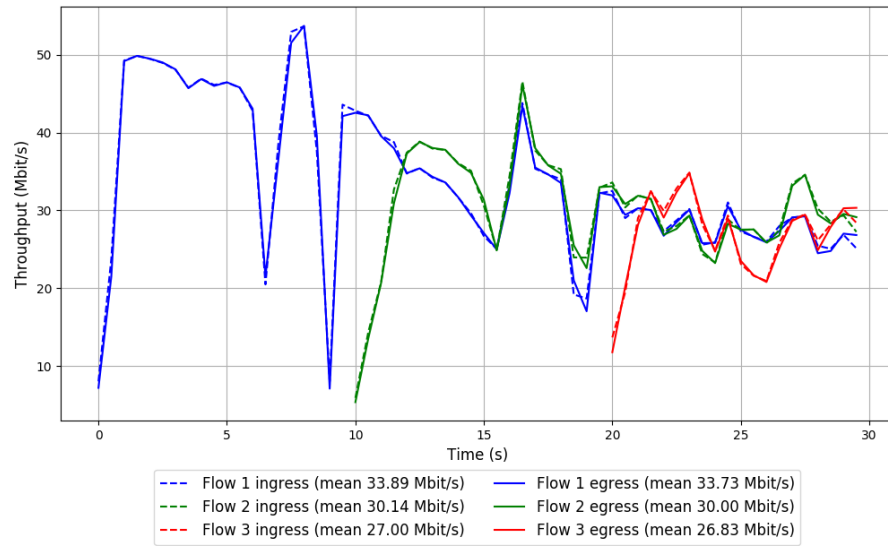
-- Flow 3:

Average throughput: 26.83 Mbit/s

95th percentile per-packet one-way delay: 38.131 ms

Loss rate: 0.64%

## Run 2: Report of Copa — Data Link



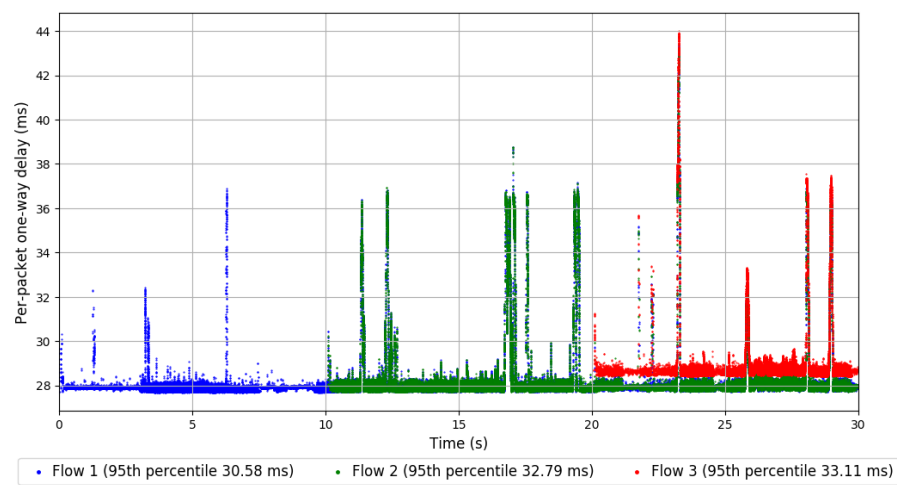
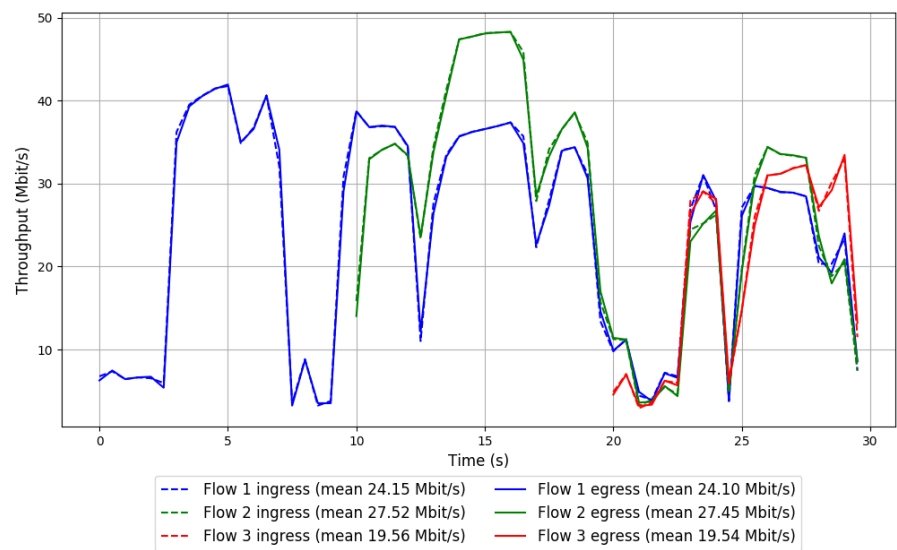
Run 3: Statistics of Copa

Start at: 2018-02-03 03:05:59  
End at: 2018-02-03 03:06:29  
Local clock offset: 1.276 ms  
Remote clock offset: -2.636 ms

# Below is generated by plot.py at 2018-02-03 07:19:17  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 48.86 Mbit/s  
95th percentile per-packet one-way delay: 32.004 ms  
Loss rate: 0.22%  
-- Flow 1:  
Average throughput: 24.10 Mbit/s  
95th percentile per-packet one-way delay: 30.580 ms  
Loss rate: 0.20%  
-- Flow 2:  
Average throughput: 27.45 Mbit/s  
95th percentile per-packet one-way delay: 32.793 ms  
Loss rate: 0.28%  
-- Flow 3:  
Average throughput: 19.54 Mbit/s  
95th percentile per-packet one-way delay: 33.106 ms  
Loss rate: 0.14%



Run 3: Report of Copa — Data Link

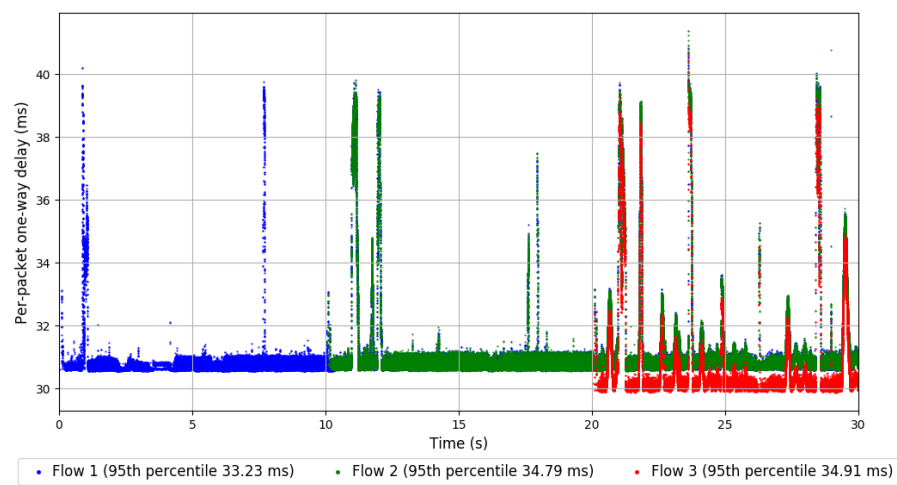
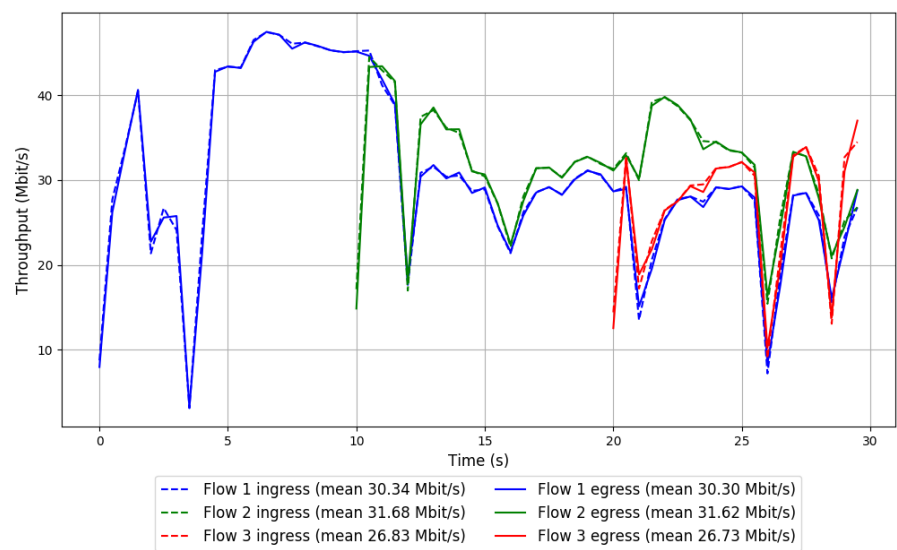


Run 4: Statistics of Copa

Start at: 2018-02-03 03:32:24  
End at: 2018-02-03 03:32:54  
Local clock offset: 1.234 ms  
Remote clock offset: -1.815 ms

# Below is generated by plot.py at 2018-02-03 07:19:38  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 60.23 Mbit/s  
95th percentile per-packet one-way delay: 34.225 ms  
Loss rate: 0.19%  
-- Flow 1:  
Average throughput: 30.30 Mbit/s  
95th percentile per-packet one-way delay: 33.231 ms  
Loss rate: 0.13%  
-- Flow 2:  
Average throughput: 31.62 Mbit/s  
95th percentile per-packet one-way delay: 34.794 ms  
Loss rate: 0.18%  
-- Flow 3:  
Average throughput: 26.73 Mbit/s  
95th percentile per-packet one-way delay: 34.905 ms  
Loss rate: 0.36%

Run 4: Report of Copa — Data Link

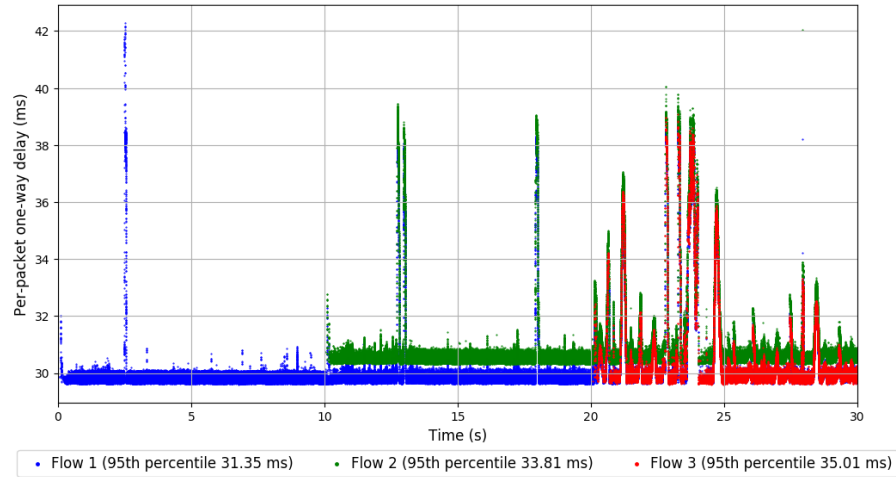
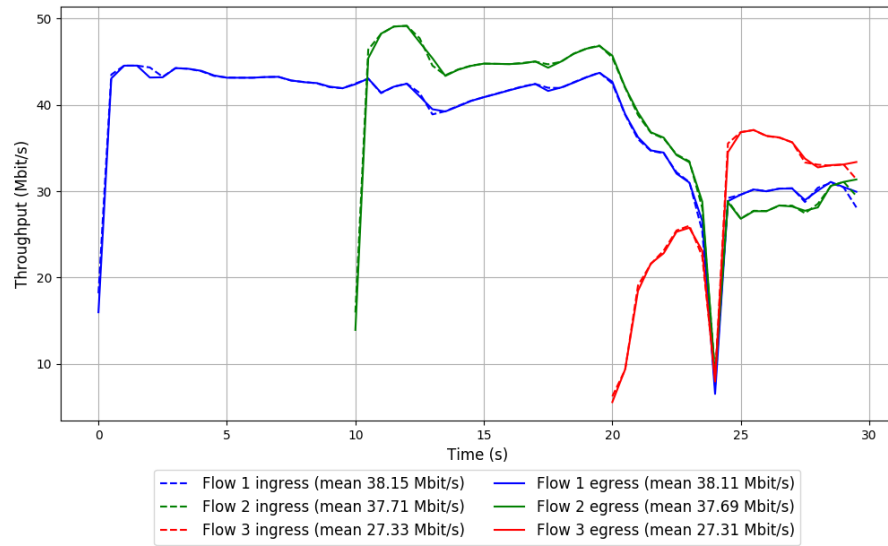


Run 5: Statistics of Copa

Start at: 2018-02-03 03:57:48  
End at: 2018-02-03 03:58:18  
Local clock offset: 1.384 ms  
Remote clock offset: -1.281 ms

```
# Below is generated by plot.py at 2018-02-03 07:20:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 72.27 Mbit/s
95th percentile per-packet one-way delay: 32.701 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 38.11 Mbit/s
95th percentile per-packet one-way delay: 31.352 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 37.69 Mbit/s
95th percentile per-packet one-way delay: 33.815 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 27.31 Mbit/s
95th percentile per-packet one-way delay: 35.011 ms
Loss rate: 0.07%
```

## Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-02-03 04:22:40

End at: 2018-02-03 04:23:10

Local clock offset: 1.41 ms

Remote clock offset: 0.35 ms

# Below is generated by plot.py at 2018-02-03 07:20:08

# Datalink statistics

-- Total of 3 flows:

Average throughput: 72.45 Mbit/s

95th percentile per-packet one-way delay: 31.857 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 37.41 Mbit/s

95th percentile per-packet one-way delay: 31.228 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 37.07 Mbit/s

95th percentile per-packet one-way delay: 31.492 ms

Loss rate: 0.02%

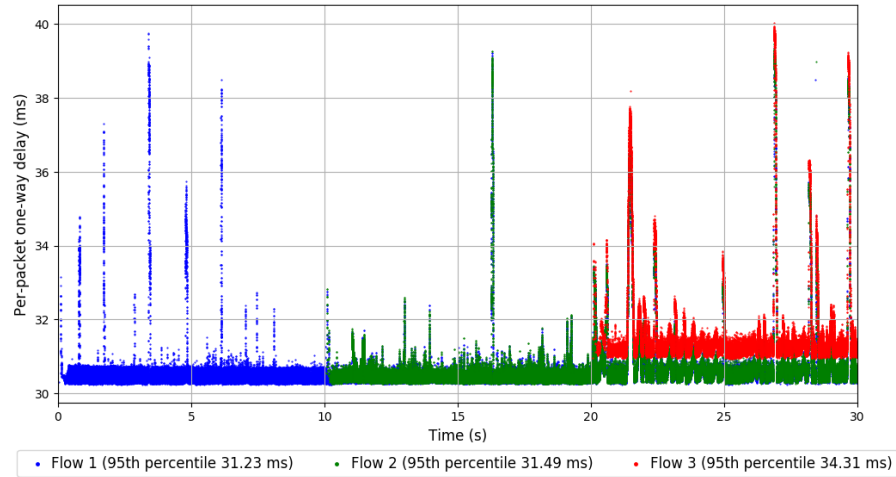
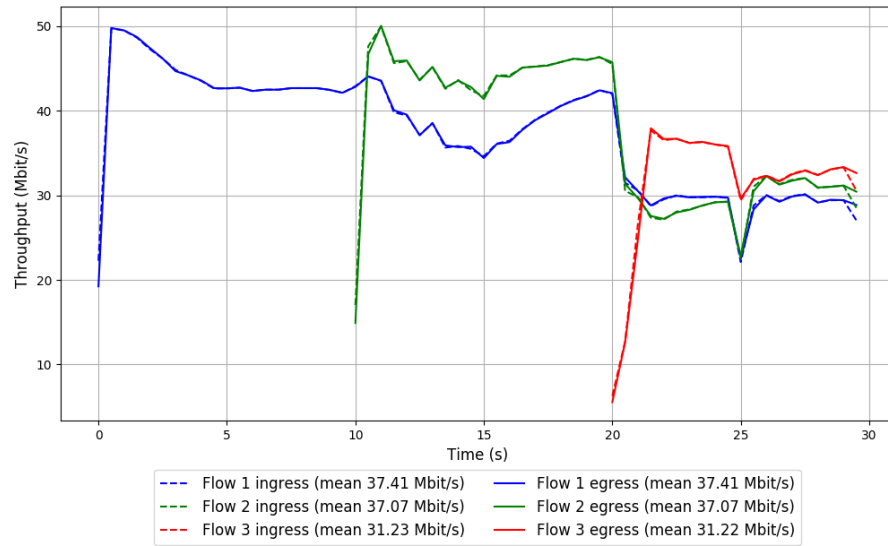
-- Flow 3:

Average throughput: 31.22 Mbit/s

95th percentile per-packet one-way delay: 34.308 ms

Loss rate: 0.03%

## Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-02-03 04:48:49

End at: 2018-02-03 04:49:19

Local clock offset: 1.3 ms

Remote clock offset: 1.773 ms

# Below is generated by plot.py at 2018-02-03 07:20:13

# Datalink statistics

-- Total of 3 flows:

Average throughput: 72.15 Mbit/s

95th percentile per-packet one-way delay: 34.305 ms

Loss rate: 0.22%

-- Flow 1:

Average throughput: 39.65 Mbit/s

95th percentile per-packet one-way delay: 32.427 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 34.91 Mbit/s

95th percentile per-packet one-way delay: 34.872 ms

Loss rate: 0.24%

-- Flow 3:

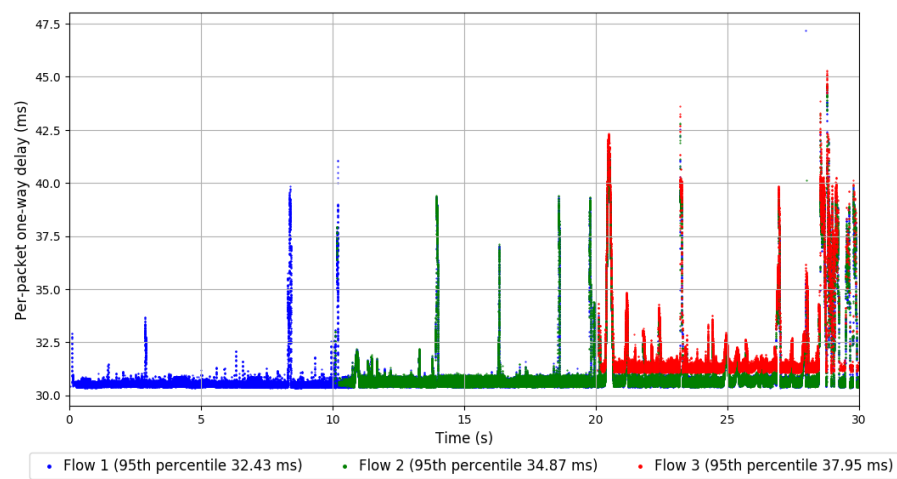
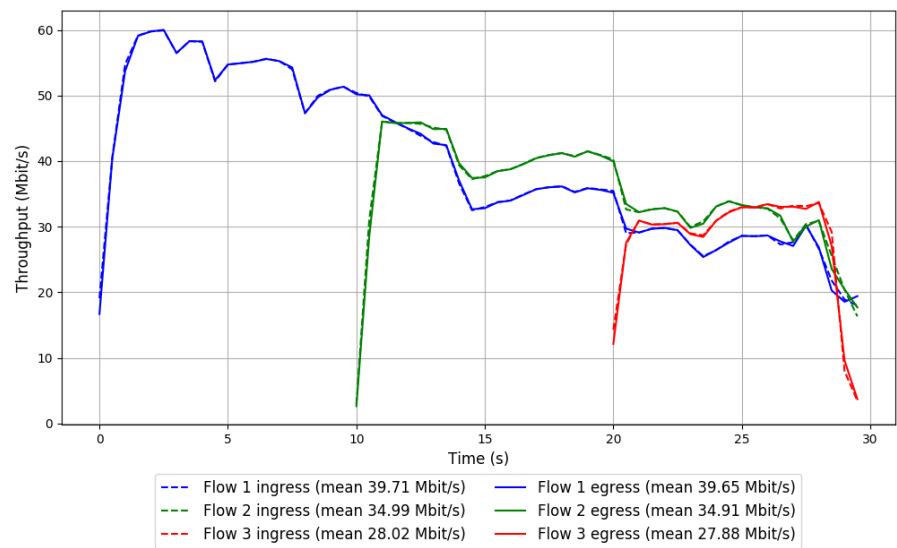
Average throughput: 27.88 Mbit/s

95th percentile per-packet one-way delay: 37.955 ms

Loss rate: 0.52%



Run 7: Report of Copa — Data Link

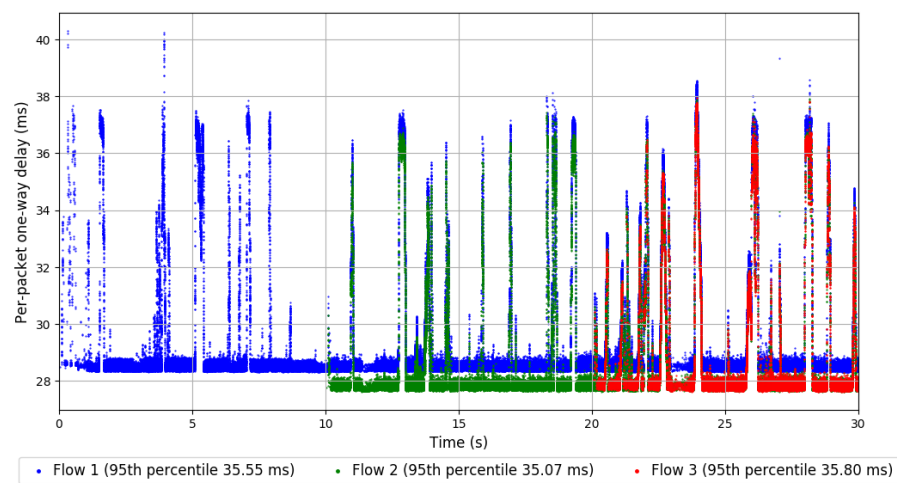
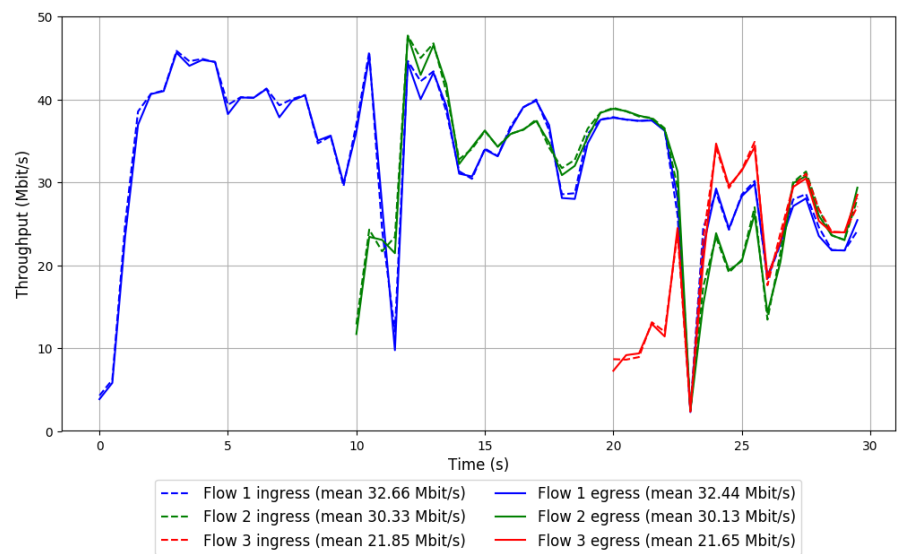


Run 8: Statistics of Copa

Start at: 2018-02-03 05:15:04  
End at: 2018-02-03 05:15:34  
Local clock offset: 1.077 ms  
Remote clock offset: -0.281 ms

# Below is generated by plot.py at 2018-02-03 07:20:13  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 59.70 Mbit/s  
95th percentile per-packet one-way delay: 35.420 ms  
Loss rate: 0.69%  
-- Flow 1:  
Average throughput: 32.44 Mbit/s  
95th percentile per-packet one-way delay: 35.548 ms  
Loss rate: 0.67%  
-- Flow 2:  
Average throughput: 30.13 Mbit/s  
95th percentile per-packet one-way delay: 35.070 ms  
Loss rate: 0.63%  
-- Flow 3:  
Average throughput: 21.65 Mbit/s  
95th percentile per-packet one-way delay: 35.803 ms  
Loss rate: 0.90%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-02-03 05:42:20

End at: 2018-02-03 05:42:50

Local clock offset: 1.031 ms

Remote clock offset: 0.78 ms

# Below is generated by plot.py at 2018-02-03 07:20:25

# Datalink statistics

-- Total of 3 flows:

Average throughput: 57.66 Mbit/s

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

Loss rate: 0.12%

-- Flow 1:

Average throughput: 30.61 Mbit/s

95th percentile per-packet one-way delay: 31.089 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 27.88 Mbit/s

95th percentile per-packet one-way delay: 32.927 ms

Loss rate: 0.15%

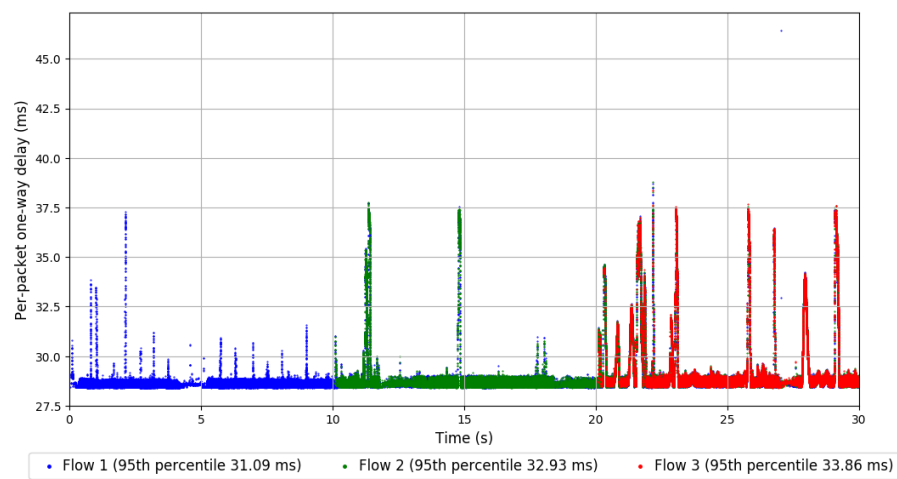
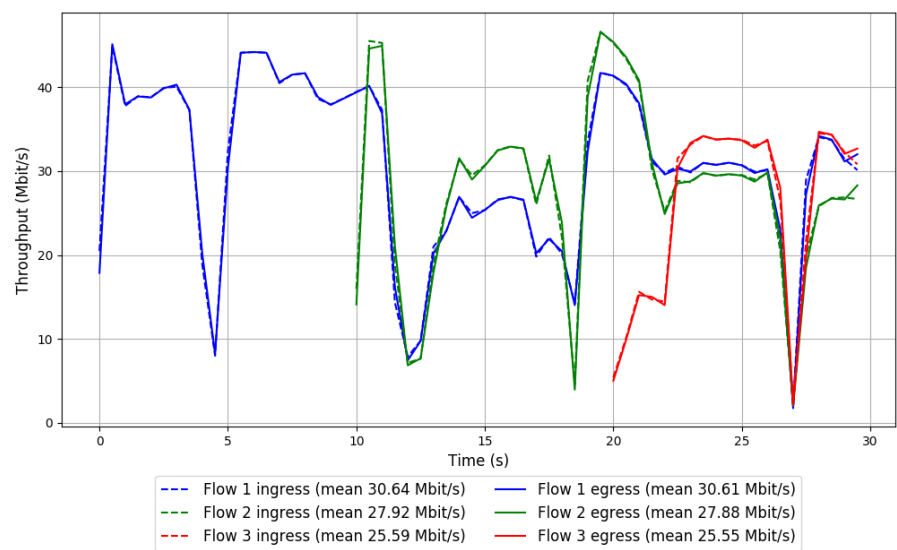
-- Flow 3:

Average throughput: 25.55 Mbit/s

95th percentile per-packet one-way delay: 33.859 ms

Loss rate: 0.14%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-02-03 06:08:30

End at: 2018-02-03 06:09:00

Local clock offset: 1.013 ms

Remote clock offset: 2.521 ms

# Below is generated by plot.py at 2018-02-03 07:20:54

# Datalink statistics

-- Total of 3 flows:

Average throughput: 69.26 Mbit/s

95th percentile per-packet one-way delay: 36.508 ms

Loss rate: 0.23%

-- Flow 1:

Average throughput: 35.85 Mbit/s

95th percentile per-packet one-way delay: 36.573 ms

Loss rate: 0.32%

-- Flow 2:

Average throughput: 35.39 Mbit/s

95th percentile per-packet one-way delay: 36.534 ms

Loss rate: 0.13%

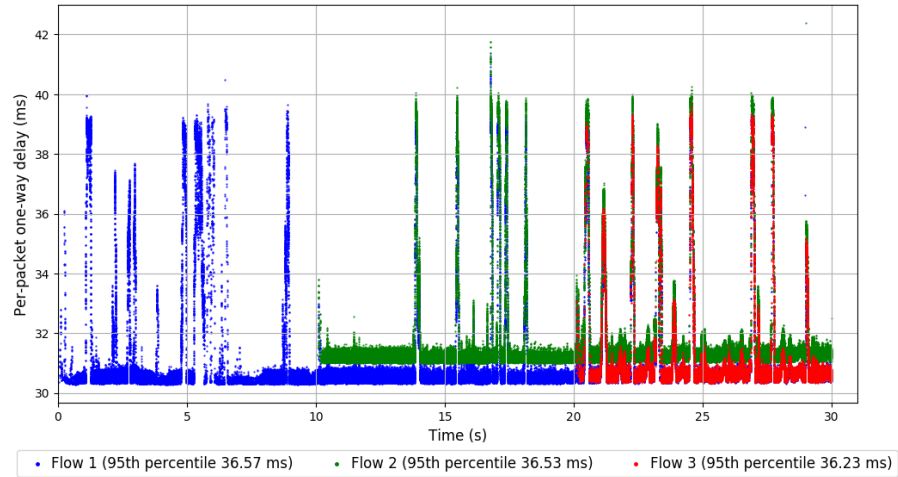
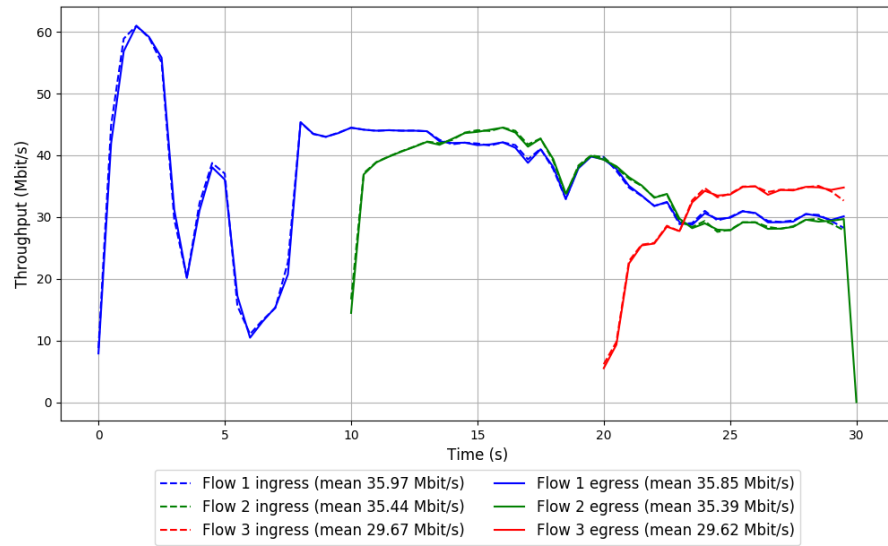
-- Flow 3:

Average throughput: 29.62 Mbit/s

95th percentile per-packet one-way delay: 36.228 ms

Loss rate: 0.16%

## Run 10: Report of Copa — Data Link



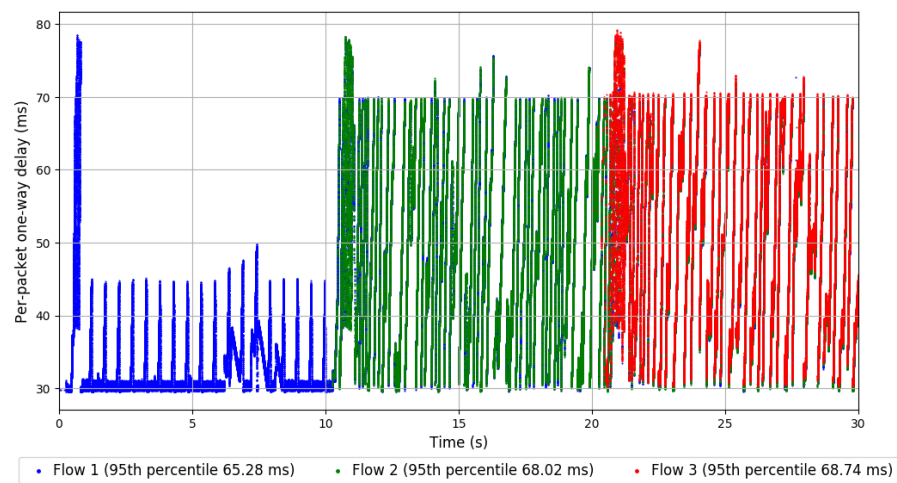
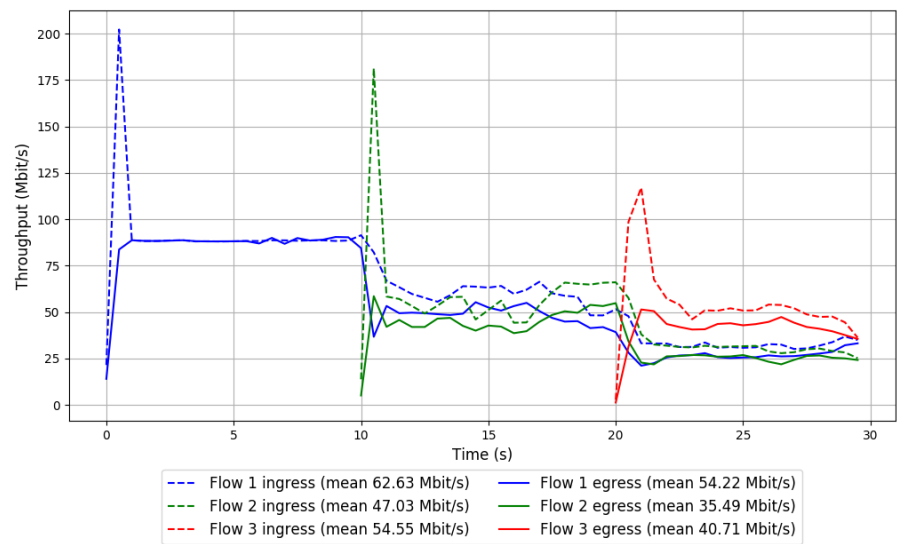
```
Run 1: Statistics of FillP

Start at: 2018-02-03 02:37:34
End at: 2018-02-03 02:38:04
Local clock offset: 1.141 ms
Remote clock offset: 0.966 ms

# Below is generated by plot.py at 2018-02-03 07:21:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.34 Mbit/s
95th percentile per-packet one-way delay: 67.024 ms
Loss rate: 18.43%
-- Flow 1:
Average throughput: 54.22 Mbit/s
95th percentile per-packet one-way delay: 65.276 ms
Loss rate: 13.39%
-- Flow 2:
Average throughput: 35.49 Mbit/s
95th percentile per-packet one-way delay: 68.024 ms
Loss rate: 24.47%
-- Flow 3:
Average throughput: 40.71 Mbit/s
95th percentile per-packet one-way delay: 68.738 ms
Loss rate: 25.44%
```



Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-02-03 03:02:53

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

Local clock offset: 1.162 ms

Remote clock offset: 0.141 ms

# Below is generated by plot.py at 2018-02-03 07:22:12

# Datalink statistics

-- Total of 3 flows:

Average throughput: 91.35 Mbit/s

95th percentile per-packet one-way delay: 67.032 ms

Loss rate: 17.95%

-- Flow 1:

Average throughput: 52.58 Mbit/s

95th percentile per-packet one-way delay: 65.336 ms

Loss rate: 13.01%

-- Flow 2:

Average throughput: 38.83 Mbit/s

95th percentile per-packet one-way delay: 68.128 ms

Loss rate: 22.20%

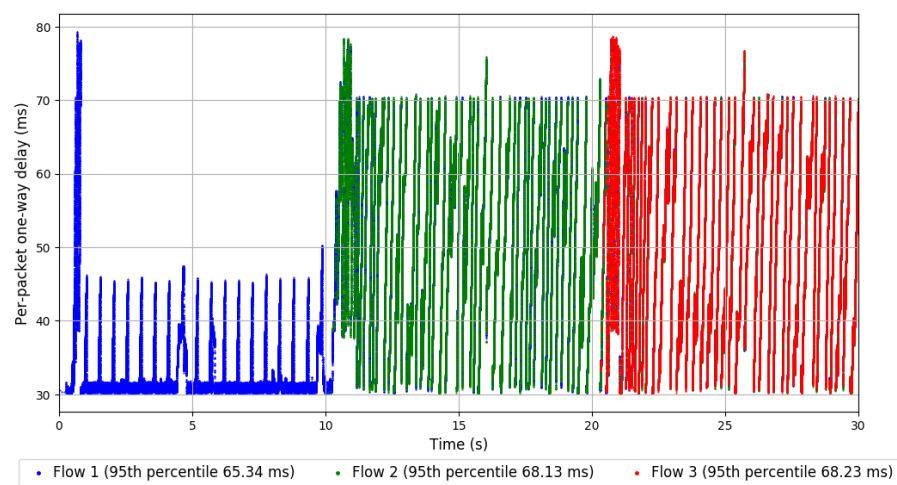
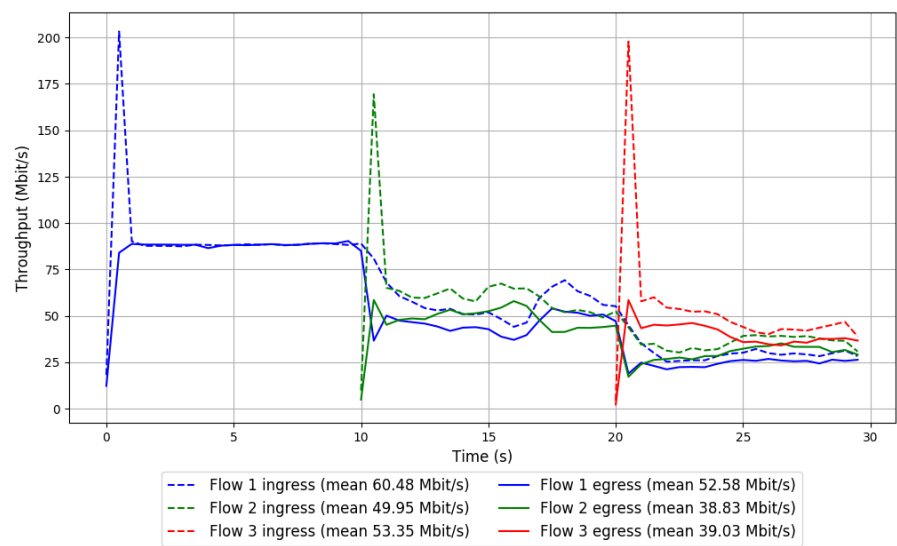
-- Flow 3:

Average throughput: 39.03 Mbit/s

95th percentile per-packet one-way delay: 68.235 ms

Loss rate: 26.84%

Run 2: Report of FillP — Data Link

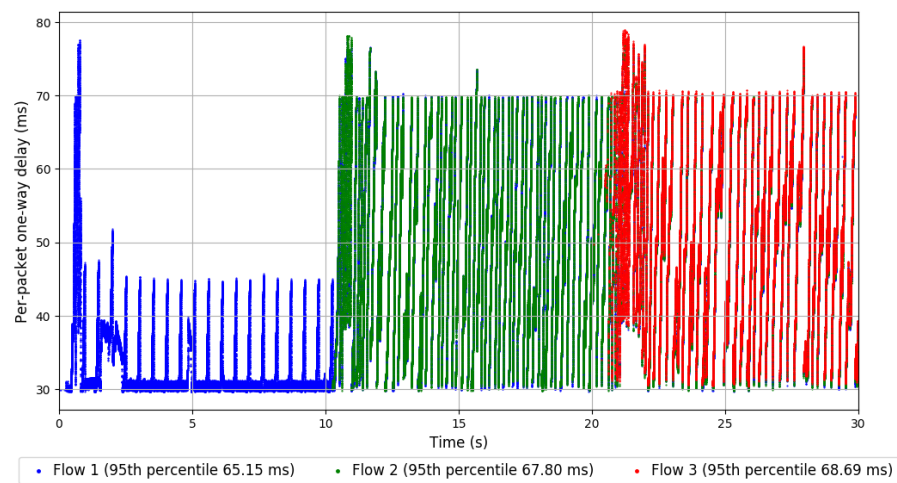
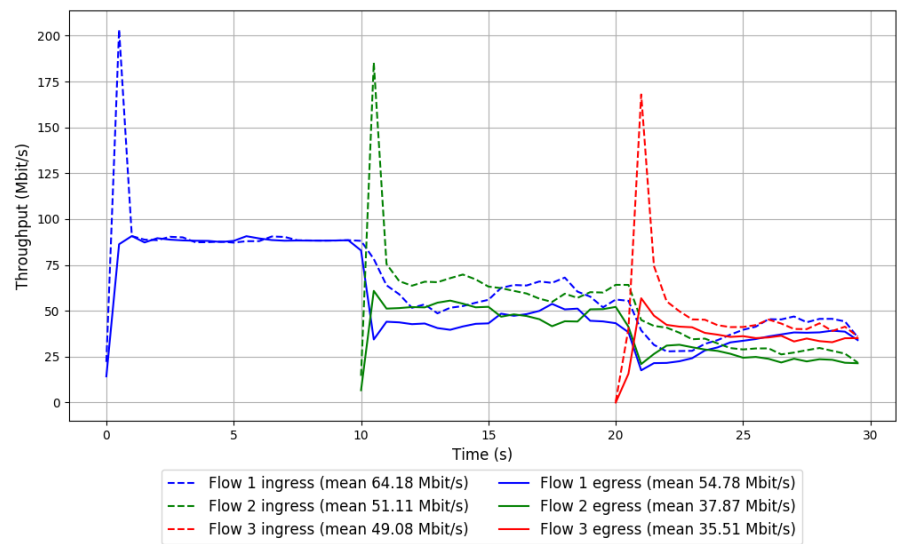


Run 3: Statistics of FillP

Start at: 2018-02-03 03:29:24  
End at: 2018-02-03 03:29:54  
Local clock offset: 1.246 ms  
Remote clock offset: -1.804 ms

# Below is generated by plot.py at 2018-02-03 07:22:32  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 91.74 Mbit/s  
95th percentile per-packet one-way delay: 66.768 ms  
Loss rate: 19.82%  
-- Flow 1:  
Average throughput: 54.78 Mbit/s  
95th percentile per-packet one-way delay: 65.150 ms  
Loss rate: 14.62%  
-- Flow 2:  
Average throughput: 37.87 Mbit/s  
95th percentile per-packet one-way delay: 67.797 ms  
Loss rate: 25.87%  
-- Flow 3:  
Average throughput: 35.51 Mbit/s  
95th percentile per-packet one-way delay: 68.692 ms  
Loss rate: 27.72%

Run 3: Report of FillP — Data Link

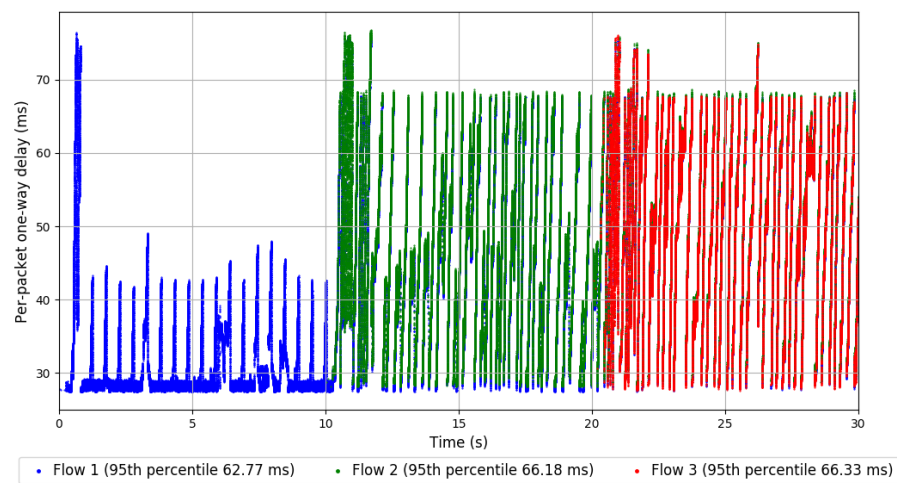
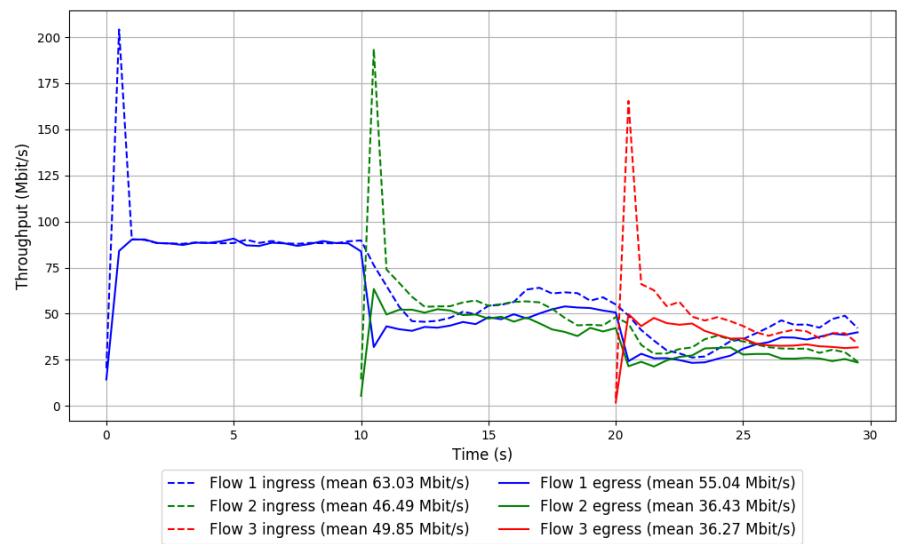


Run 4: Statistics of FillP

Start at: 2018-02-03 03:55:01  
End at: 2018-02-03 03:55:31  
Local clock offset: 1.282 ms  
Remote clock offset: -3.533 ms

# Below is generated by plot.py at 2018-02-03 07:22:38  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 91.32 Mbit/s  
95th percentile per-packet one-way delay: 64.772 ms  
Loss rate: 17.28%  
-- Flow 1:  
Average throughput: 55.04 Mbit/s  
95th percentile per-packet one-way delay: 62.770 ms  
Loss rate: 12.59%  
-- Flow 2:  
Average throughput: 36.43 Mbit/s  
95th percentile per-packet one-way delay: 66.183 ms  
Loss rate: 21.56%  
-- Flow 3:  
Average throughput: 36.27 Mbit/s  
95th percentile per-packet one-way delay: 66.331 ms  
Loss rate: 27.16%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-02-03 04:19:54

End at: 2018-02-03 04:20:24

Local clock offset: 1.312 ms

Remote clock offset: -2.31 ms

# Below is generated by plot.py at 2018-02-03 07:22:41

# Datalink statistics

-- Total of 3 flows:

Average throughput: 91.24 Mbit/s

95th percentile per-packet one-way delay: 65.031 ms

Loss rate: 19.24%

-- Flow 1:

Average throughput: 60.39 Mbit/s

95th percentile per-packet one-way delay: 63.887 ms

Loss rate: 14.25%

-- Flow 2:

Average throughput: 29.01 Mbit/s

95th percentile per-packet one-way delay: 65.986 ms

Loss rate: 25.81%

-- Flow 3:

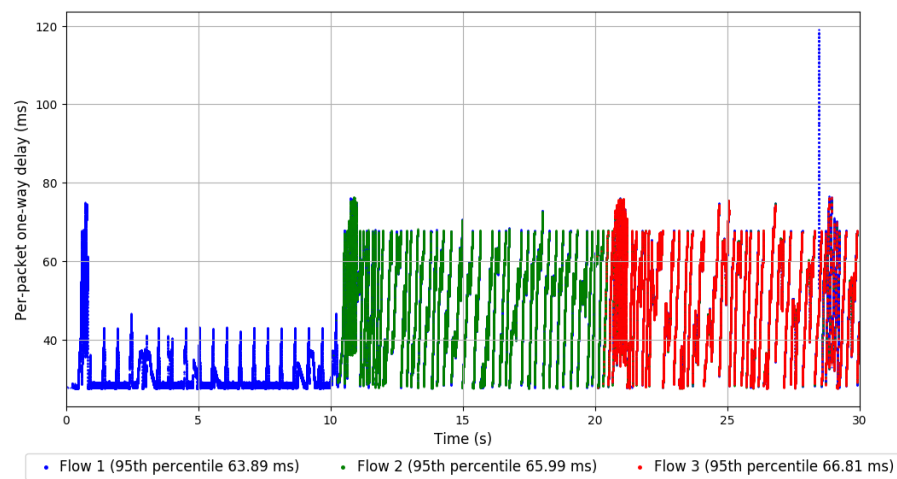
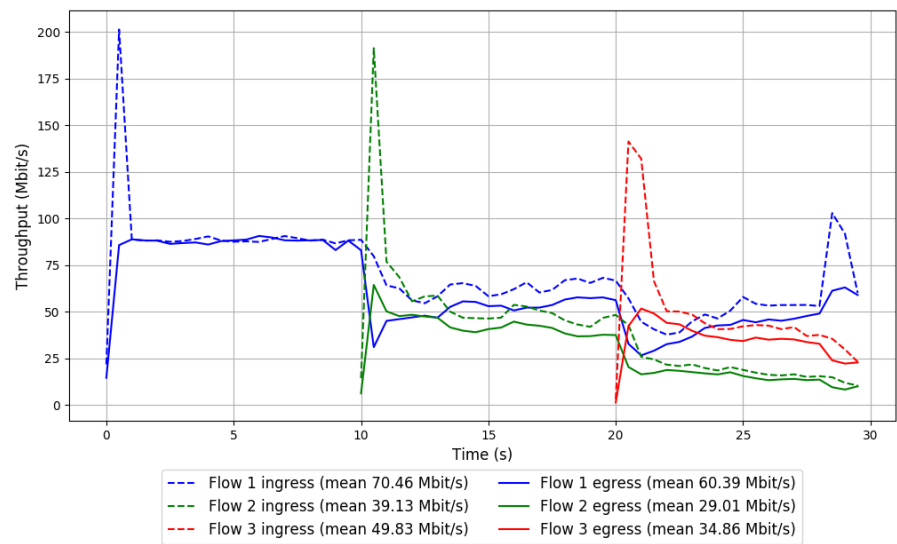
Average throughput: 34.86 Mbit/s

95th percentile per-packet one-way delay: 66.812 ms

Loss rate: 30.16%



Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-02-03 04:45:49

End at: 2018-02-03 04:46:19

Local clock offset: 1.381 ms

Remote clock offset: 1.499 ms

# Below is generated by plot.py at 2018-02-03 07:22:49

# Datalink statistics

-- Total of 3 flows:

Average throughput: 91.45 Mbit/s

95th percentile per-packet one-way delay: 67.410 ms

Loss rate: 20.03%

-- Flow 1:

Average throughput: 54.40 Mbit/s

95th percentile per-packet one-way delay: 65.688 ms

Loss rate: 14.37%

-- Flow 2:

Average throughput: 33.20 Mbit/s

95th percentile per-packet one-way delay: 68.827 ms

Loss rate: 27.41%

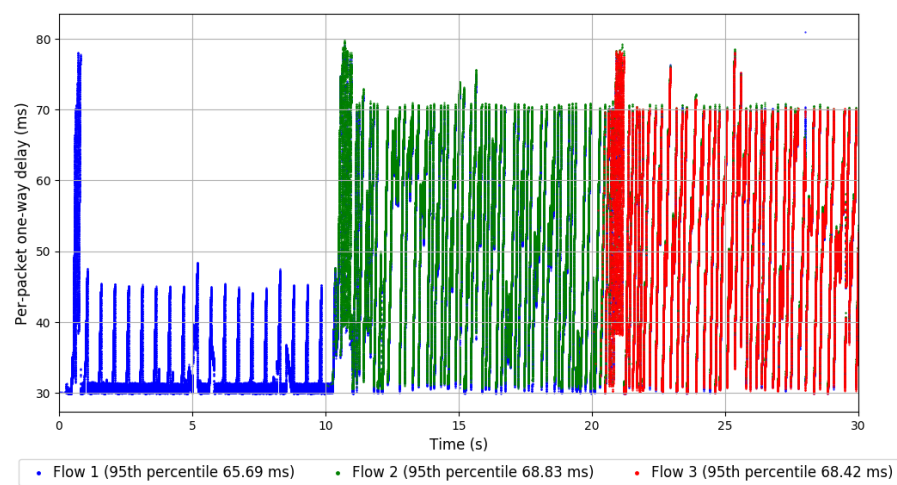
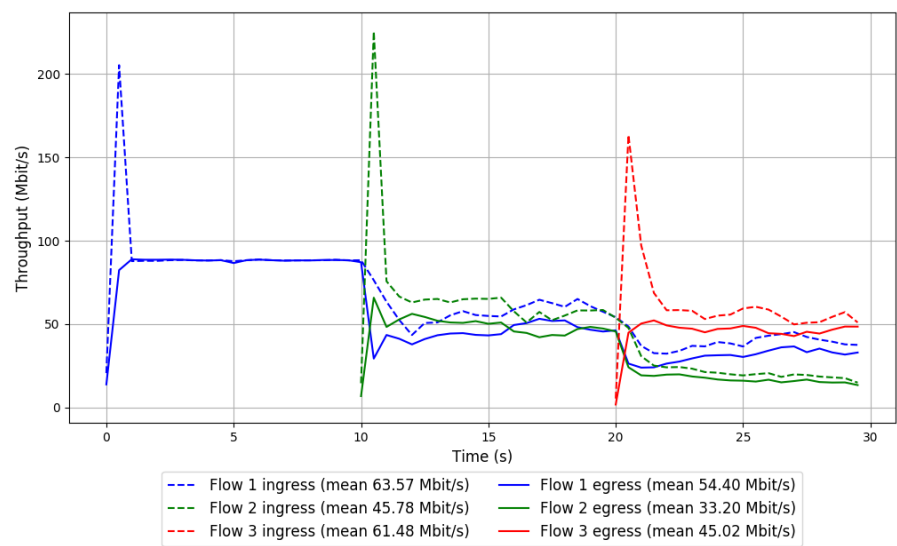
-- Flow 3:

Average throughput: 45.02 Mbit/s

95th percentile per-packet one-way delay: 68.422 ms

Loss rate: 26.66%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-02-03 05:11:53

End at: 2018-02-03 05:12:23

Local clock offset: 1.2 ms

Remote clock offset: 2.213 ms

# Below is generated by plot.py at 2018-02-03 07:23:03

# Datalink statistics

-- Total of 3 flows:

Average throughput: 91.20 Mbit/s

95th percentile per-packet one-way delay: 67.551 ms

Loss rate: 20.90%

-- Flow 1:

Average throughput: 56.59 Mbit/s

95th percentile per-packet one-way delay: 66.092 ms

Loss rate: 15.13%

-- Flow 2:

Average throughput: 36.12 Mbit/s

95th percentile per-packet one-way delay: 68.627 ms

Loss rate: 28.22%

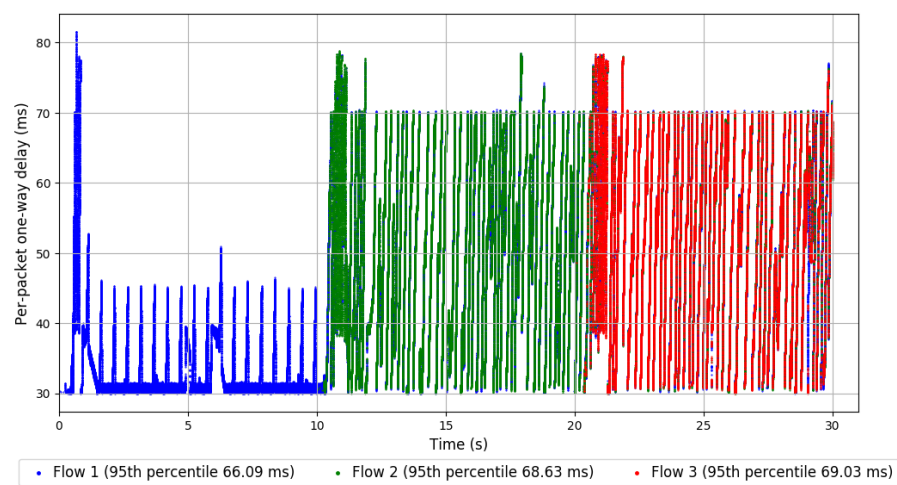
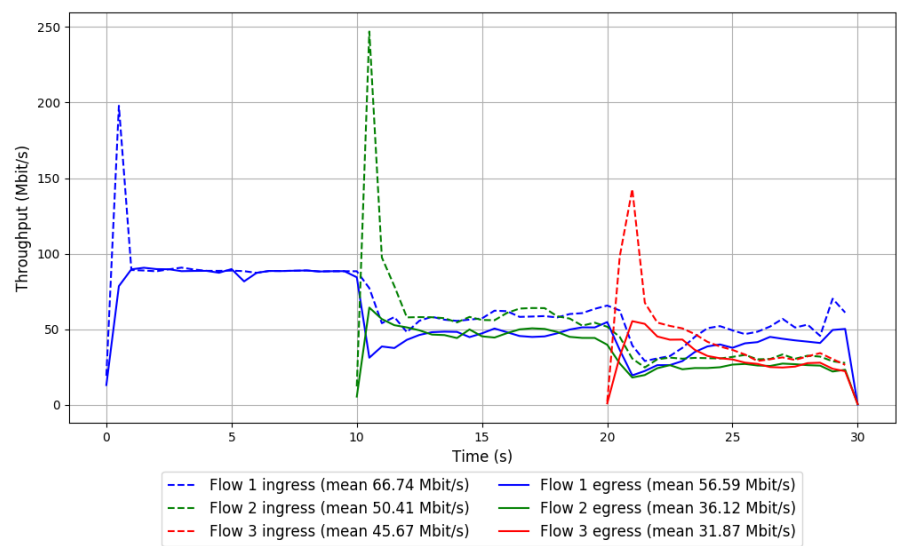
-- Flow 3:

Average throughput: 31.87 Mbit/s

95th percentile per-packet one-way delay: 69.035 ms

Loss rate: 30.12%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-02-03 05:39:16

End at: 2018-02-03 05:39:46

Local clock offset: 1.037 ms

Remote clock offset: 2.807 ms

# Below is generated by plot.py at 2018-02-03 07:23:33

# Datalink statistics

-- Total of 3 flows:

Average throughput: 91.44 Mbit/s

95th percentile per-packet one-way delay: 67.288 ms

Loss rate: 19.08%

-- Flow 1:

Average throughput: 51.84 Mbit/s

95th percentile per-packet one-way delay: 65.445 ms

Loss rate: 14.02%

-- Flow 2:

Average throughput: 40.01 Mbit/s

95th percentile per-packet one-way delay: 68.517 ms

Loss rate: 24.13%

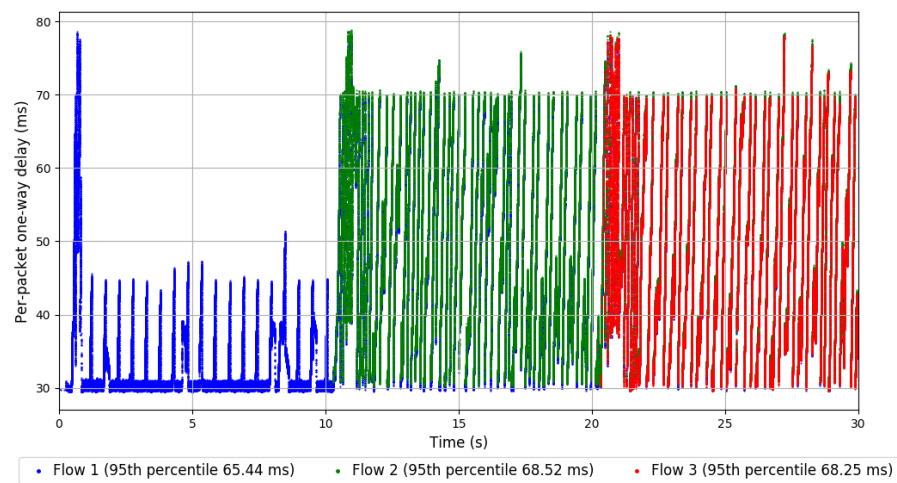
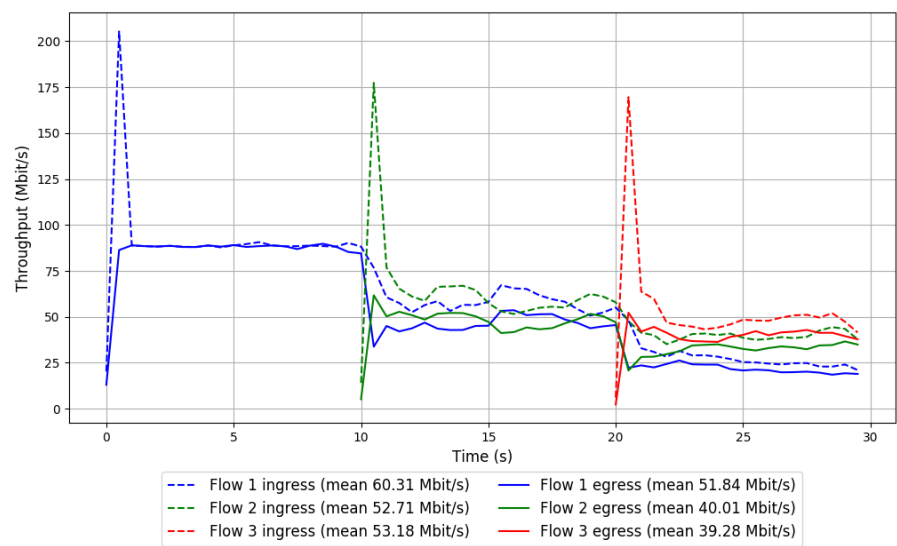
-- Flow 3:

Average throughput: 39.28 Mbit/s

95th percentile per-packet one-way delay: 68.249 ms

Loss rate: 26.33%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-02-03 06:05:31

End at: 2018-02-03 06:06:01

Local clock offset: 1.014 ms

Remote clock offset: 2.154 ms

# Below is generated by plot.py at 2018-02-03 07:24:44

# Datalink statistics

-- Total of 3 flows:

Average throughput: 90.61 Mbit/s

95th percentile per-packet one-way delay: 68.534 ms

Loss rate: 28.82%

-- Flow 1:

Average throughput: 55.01 Mbit/s

95th percentile per-packet one-way delay: 67.458 ms

Loss rate: 24.14%

-- Flow 2:

Average throughput: 29.95 Mbit/s

95th percentile per-packet one-way delay: 69.960 ms

Loss rate: 30.76%

-- Flow 3:

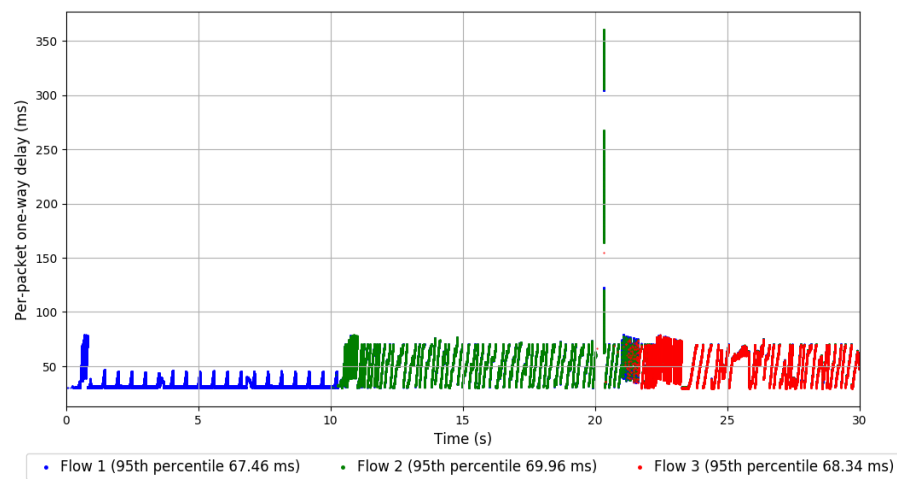
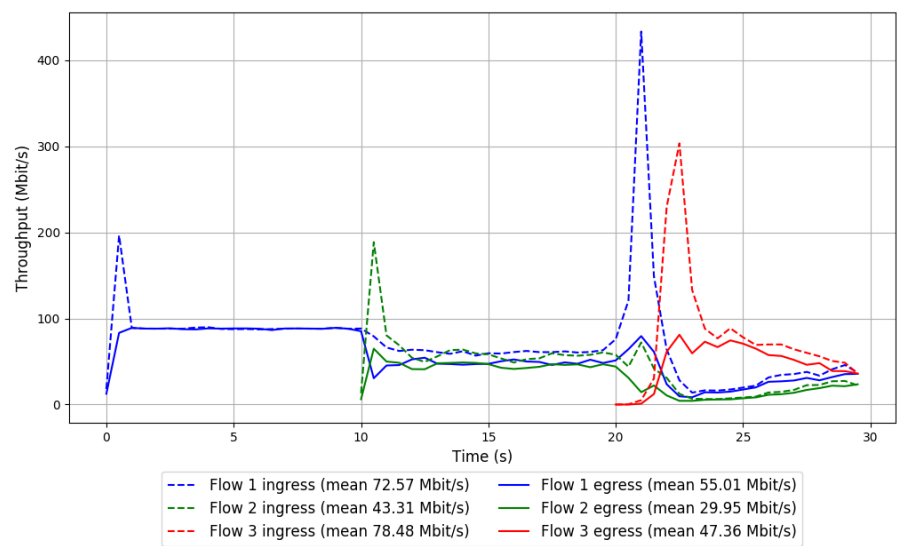
Average throughput: 47.36 Mbit/s

95th percentile per-packet one-way delay: 68.344 ms

Loss rate: 39.74%



Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-02-03 06:31:13

End at: 2018-02-03 06:31:43

Local clock offset: 0.842 ms

Remote clock offset: 0.235 ms

# Below is generated by plot.py at 2018-02-03 07:24:59

# Datalink statistics

-- Total of 3 flows:

Average throughput: 91.52 Mbit/s

95th percentile per-packet one-way delay: 66.705 ms

Loss rate: 19.25%

-- Flow 1:

Average throughput: 57.14 Mbit/s

95th percentile per-packet one-way delay: 65.552 ms

Loss rate: 14.16%

-- Flow 2:

Average throughput: 35.55 Mbit/s

95th percentile per-packet one-way delay: 67.761 ms

Loss rate: 26.32%

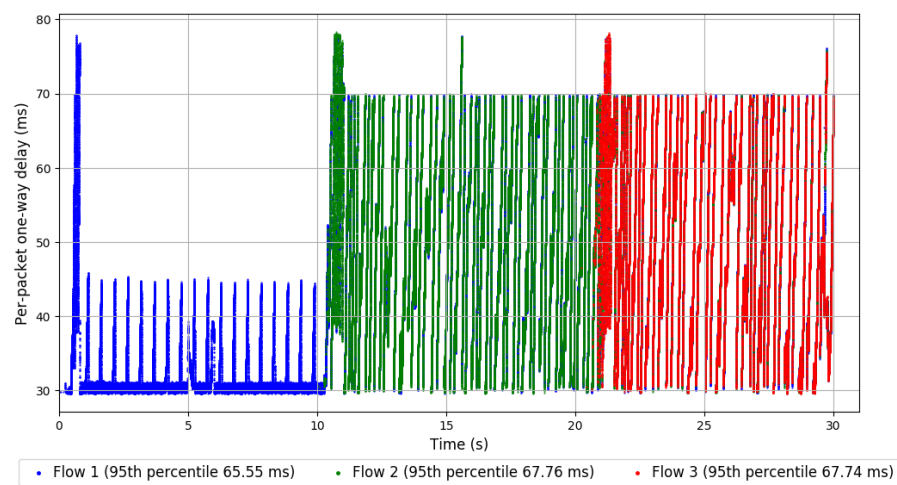
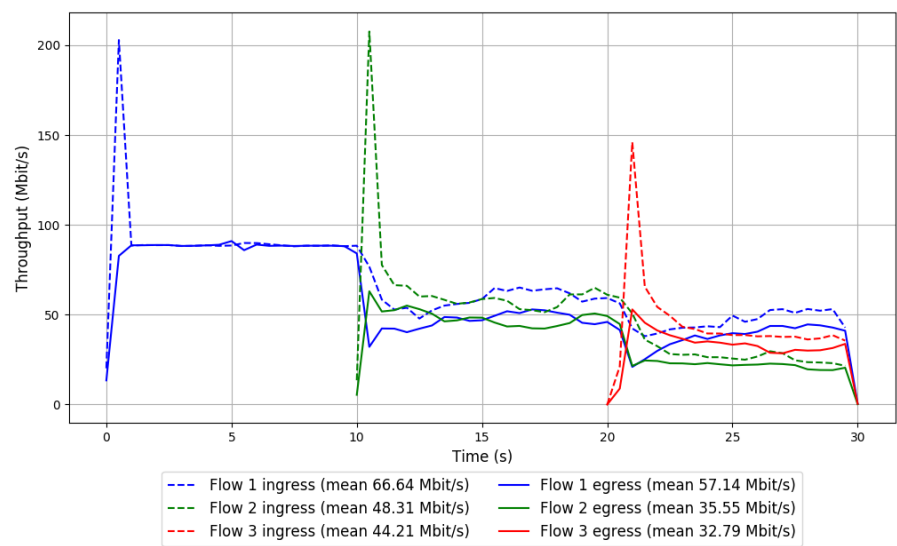
-- Flow 3:

Average throughput: 32.79 Mbit/s

95th percentile per-packet one-way delay: 67.736 ms

Loss rate: 26.86%

Run 10: Report of FillP — Data Link

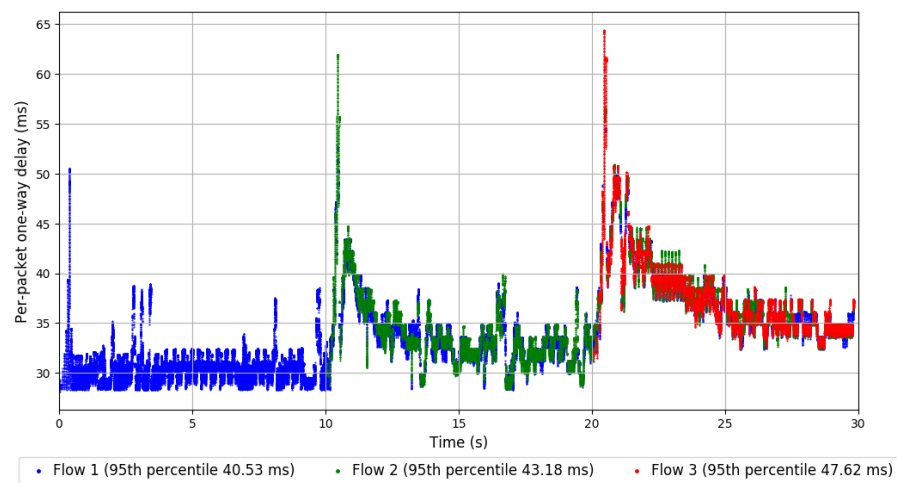
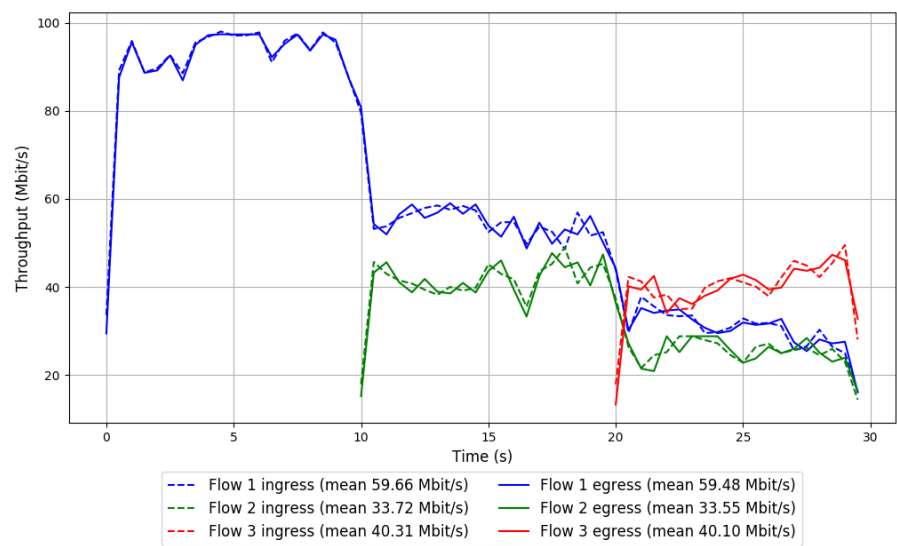


Run 1: Statistics of Indigo-1-32

Start at: 2018-02-03 02:34:47  
End at: 2018-02-03 02:35:17  
Local clock offset: 1.148 ms  
Remote clock offset: -1.009 ms

# Below is generated by plot.py at 2018-02-03 07:24:59  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.80 Mbit/s  
95th percentile per-packet one-way delay: 42.144 ms  
Loss rate: 0.34%  
-- Flow 1:  
Average throughput: 59.48 Mbit/s  
95th percentile per-packet one-way delay: 40.534 ms  
Loss rate: 0.27%  
-- Flow 2:  
Average throughput: 33.55 Mbit/s  
95th percentile per-packet one-way delay: 43.178 ms  
Loss rate: 0.47%  
-- Flow 3:  
Average throughput: 40.10 Mbit/s  
95th percentile per-packet one-way delay: 47.615 ms  
Loss rate: 0.46%

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

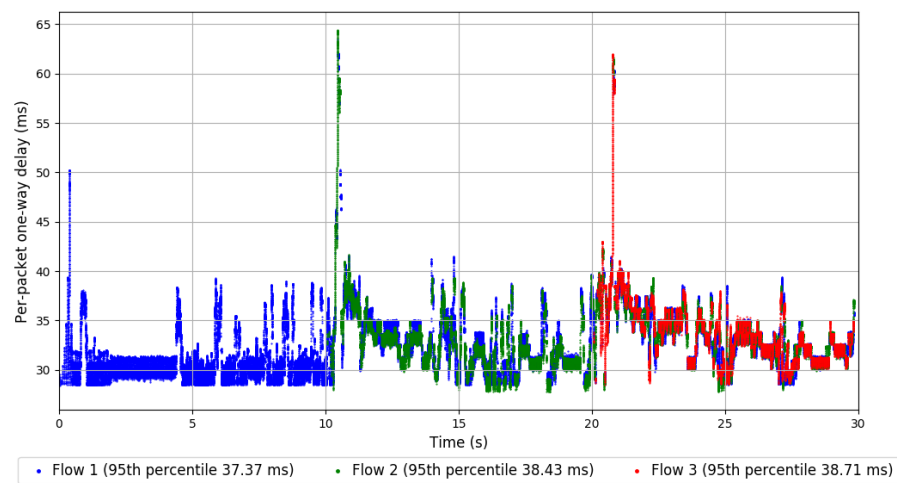
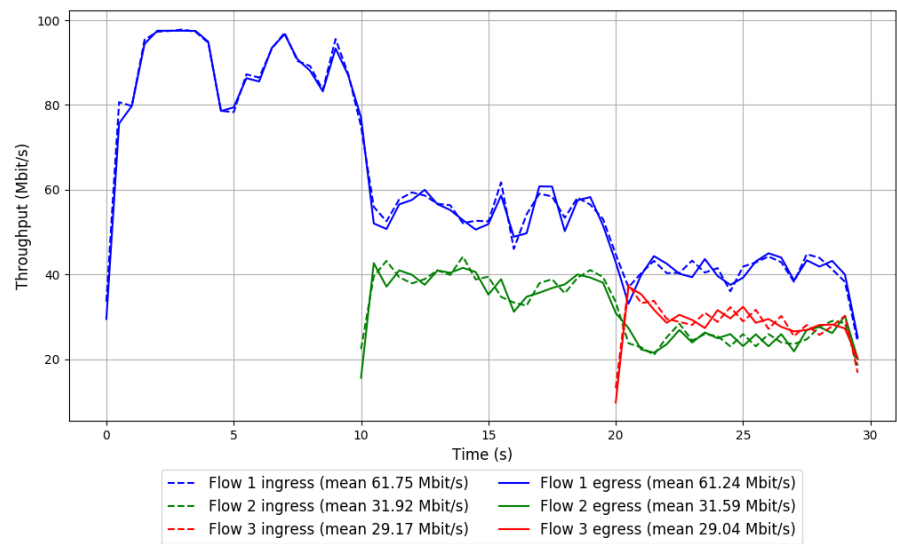


Run 2: Statistics of Indigo-1-32

Start at: 2018-02-03 02:59:52  
End at: 2018-02-03 03:00:22  
Local clock offset: 1.127 ms  
Remote clock offset: -2.197 ms

# Below is generated by plot.py at 2018-02-03 07:24:59  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 91.68 Mbit/s  
95th percentile per-packet one-way delay: 37.765 ms  
Loss rate: 0.81%  
-- Flow 1:  
Average throughput: 61.24 Mbit/s  
95th percentile per-packet one-way delay: 37.373 ms  
Loss rate: 0.81%  
-- Flow 2:  
Average throughput: 31.59 Mbit/s  
95th percentile per-packet one-way delay: 38.431 ms  
Loss rate: 0.99%  
-- Flow 3:  
Average throughput: 29.04 Mbit/s  
95th percentile per-packet one-way delay: 38.712 ms  
Loss rate: 0.40%

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



Run 3: Statistics of Indigo-1-32

Start at: 2018-02-03 03:26:35

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

Local clock offset: 1.321 ms

Remote clock offset: -1.73 ms

# Below is generated by plot.py at 2018-02-03 07:24:59

# Datalink statistics

-- Total of 3 flows:

Average throughput: 94.46 Mbit/s

95th percentile per-packet one-way delay: 41.659 ms

Loss rate: 0.15%

-- Flow 1:

Average throughput: 63.65 Mbit/s

95th percentile per-packet one-way delay: 39.938 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 32.26 Mbit/s

95th percentile per-packet one-way delay: 42.868 ms

Loss rate: 0.21%

-- Flow 3:

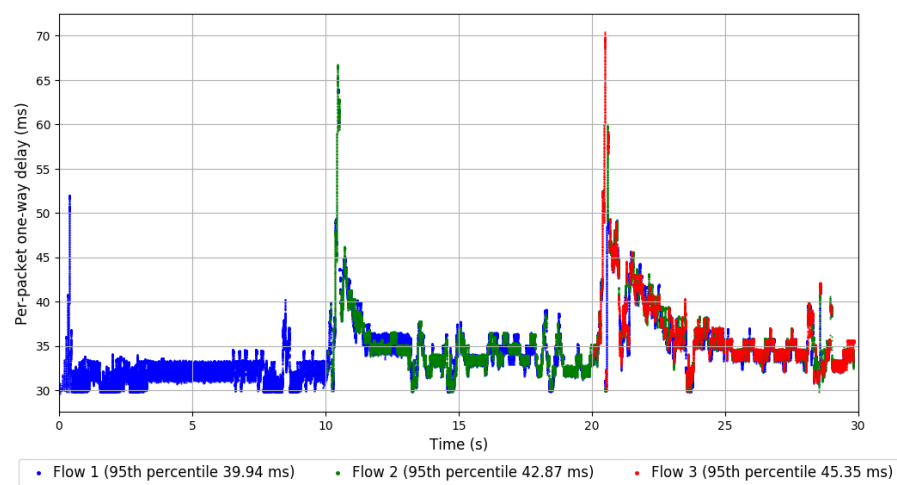
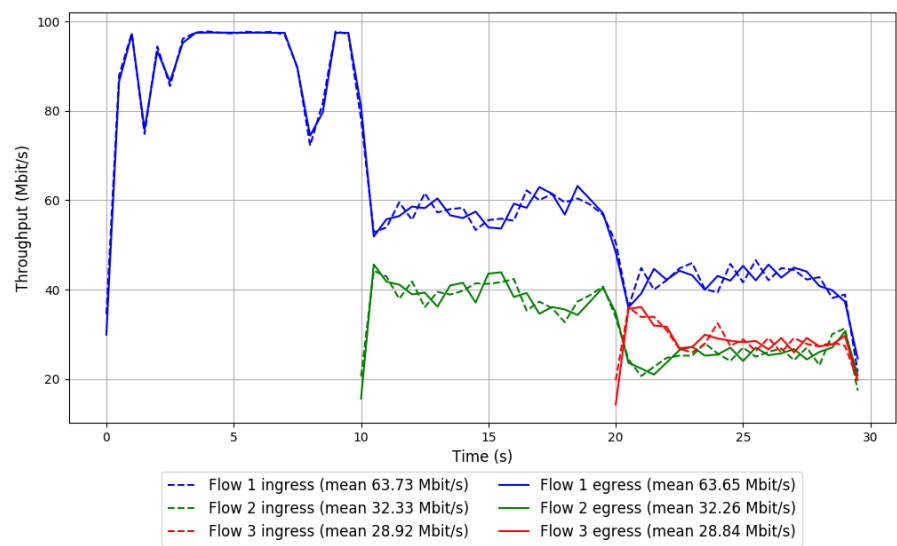
Average throughput: 28.84 Mbit/s

95th percentile per-packet one-way delay: 45.346 ms

Loss rate: 0.25%



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

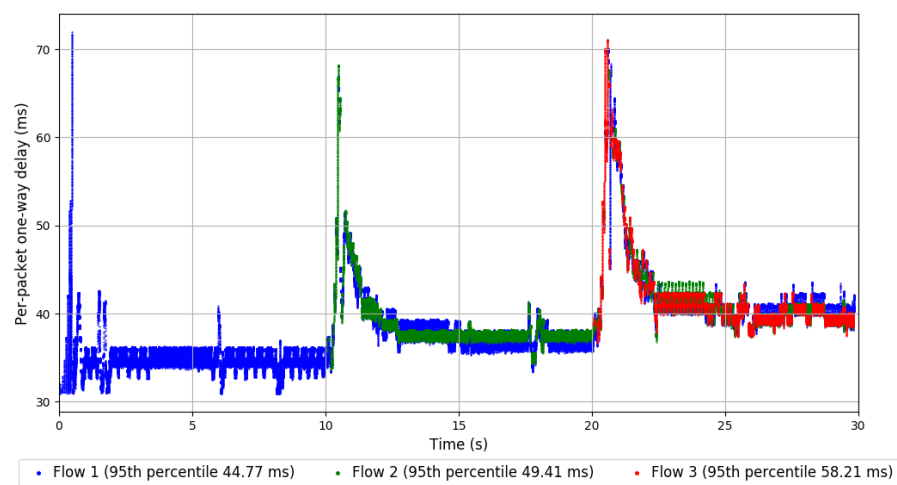
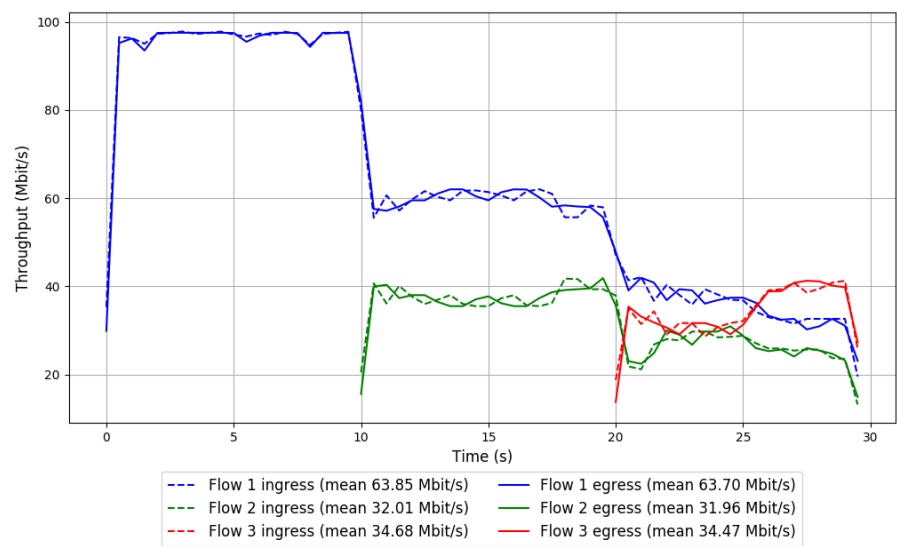


Run 4: Statistics of Indigo-1-32

Start at: 2018-02-03 03:52:06  
End at: 2018-02-03 03:52:36  
Local clock offset: 1.27 ms  
Remote clock offset: -1.011 ms

# Below is generated by plot.py at 2018-02-03 07:24:59  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.13 Mbit/s  
95th percentile per-packet one-way delay: 47.328 ms  
Loss rate: 0.23%  
-- Flow 1:  
Average throughput: 63.70 Mbit/s  
95th percentile per-packet one-way delay: 44.770 ms  
Loss rate: 0.20%  
-- Flow 2:  
Average throughput: 31.96 Mbit/s  
95th percentile per-packet one-way delay: 49.413 ms  
Loss rate: 0.14%  
-- Flow 3:  
Average throughput: 34.47 Mbit/s  
95th percentile per-packet one-way delay: 58.211 ms  
Loss rate: 0.59%

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

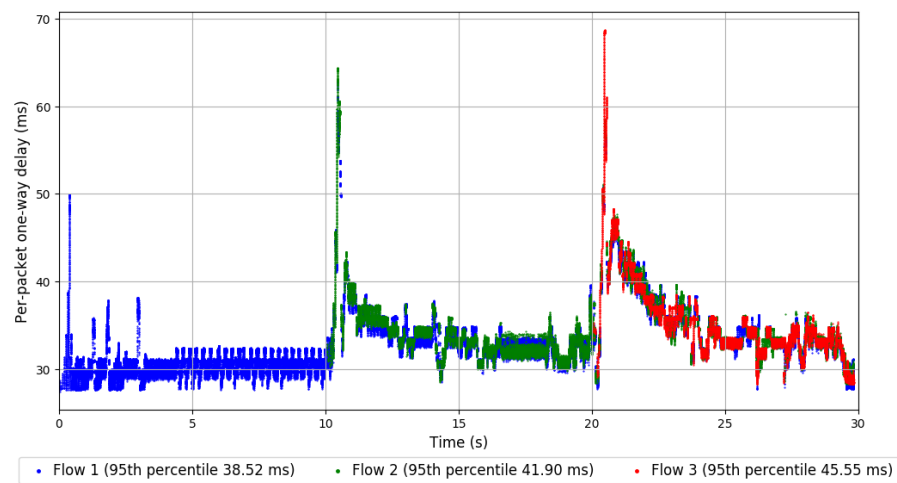
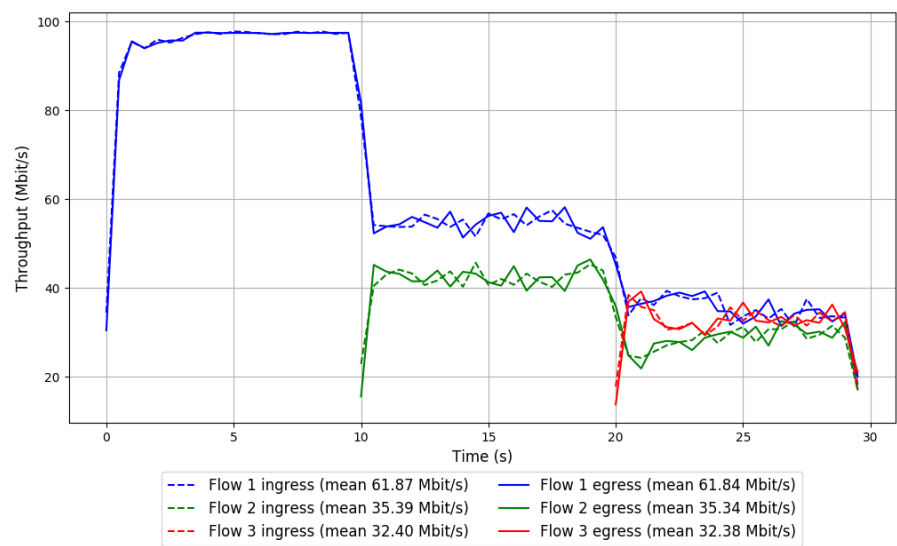


Run 5: Statistics of Indigo-1-32

Start at: 2018-02-03 04:17:08  
End at: 2018-02-03 04:17:38  
Local clock offset: 1.406 ms  
Remote clock offset: -2.403 ms

# Below is generated by plot.py at 2018-02-03 07:24:59  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.85 Mbit/s  
95th percentile per-packet one-way delay: 40.804 ms  
Loss rate: 0.08%  
-- Flow 1:  
Average throughput: 61.84 Mbit/s  
95th percentile per-packet one-way delay: 38.523 ms  
Loss rate: 0.05%  
-- Flow 2:  
Average throughput: 35.34 Mbit/s  
95th percentile per-packet one-way delay: 41.900 ms  
Loss rate: 0.15%  
-- Flow 3:  
Average throughput: 32.38 Mbit/s  
95th percentile per-packet one-way delay: 45.555 ms  
Loss rate: 0.13%

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

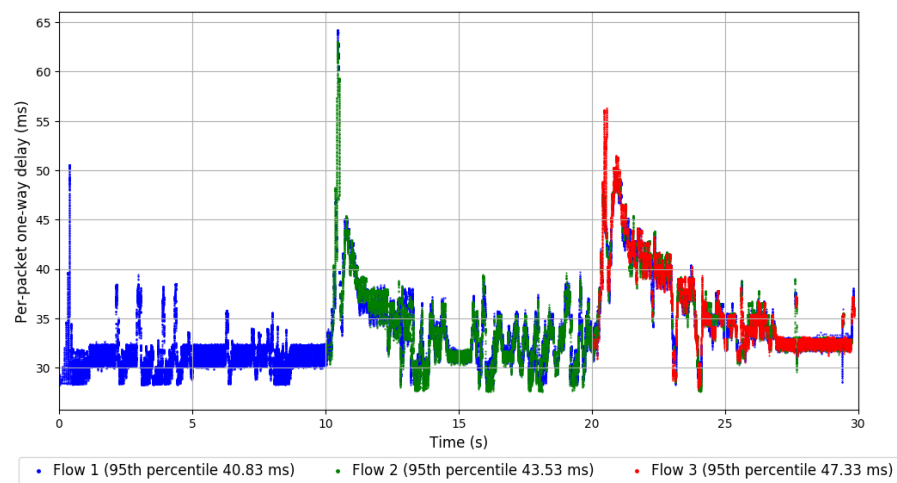
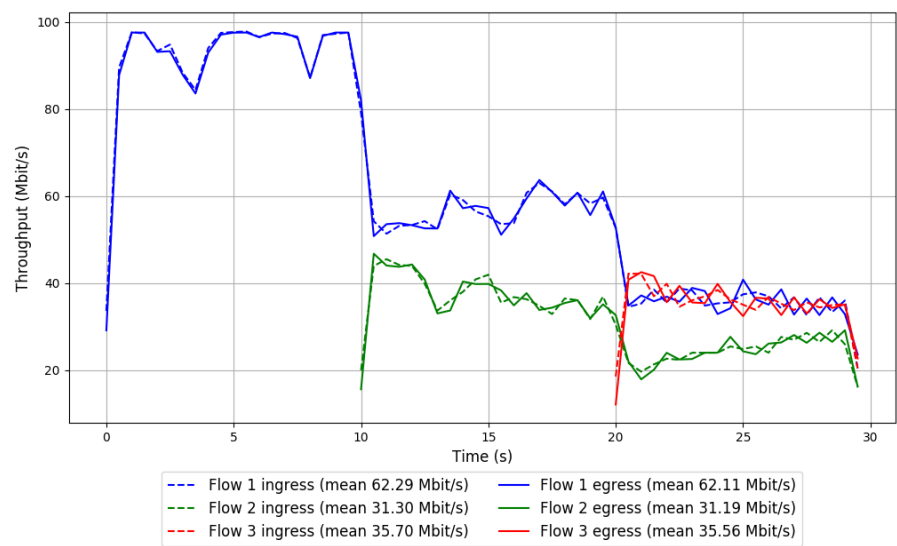


Run 6: Statistics of Indigo-1-32

Start at: 2018-02-03 04:42:48  
End at: 2018-02-03 04:43:18  
Local clock offset: 1.384 ms  
Remote clock offset: -1.172 ms

# Below is generated by plot.py at 2018-02-03 07:25:00  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.40 Mbit/s  
95th percentile per-packet one-way delay: 42.526 ms  
Loss rate: 0.29%  
-- Flow 1:  
Average throughput: 62.11 Mbit/s  
95th percentile per-packet one-way delay: 40.832 ms  
Loss rate: 0.27%  
-- Flow 2:  
Average throughput: 31.19 Mbit/s  
95th percentile per-packet one-way delay: 43.529 ms  
Loss rate: 0.33%  
-- Flow 3:  
Average throughput: 35.56 Mbit/s  
95th percentile per-packet one-way delay: 47.325 ms  
Loss rate: 0.37%

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



Run 7: Statistics of Indigo-1-32

Start at: 2018-02-03 05:08:53

End at: 2018-02-03 05:09:23

Local clock offset: 1.216 ms

Remote clock offset: 1.565 ms

# Below is generated by plot.py at 2018-02-03 07:25:15

# Datalink statistics

-- Total of 3 flows:

Average throughput: 92.43 Mbit/s

95th percentile per-packet one-way delay: 43.641 ms

Loss rate: 0.41%

-- Flow 1:

Average throughput: 58.56 Mbit/s

95th percentile per-packet one-way delay: 41.680 ms

Loss rate: 0.36%

-- Flow 2:

Average throughput: 32.35 Mbit/s

95th percentile per-packet one-way delay: 43.922 ms

Loss rate: 0.45%

-- Flow 3:

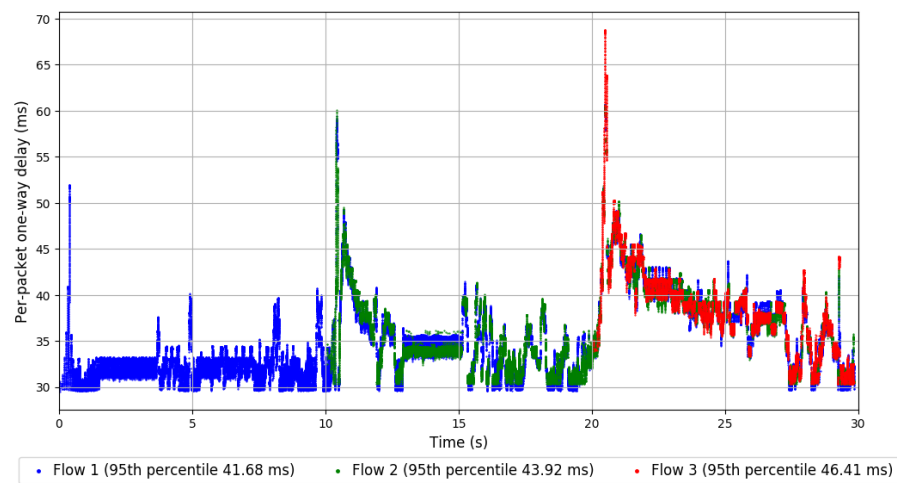
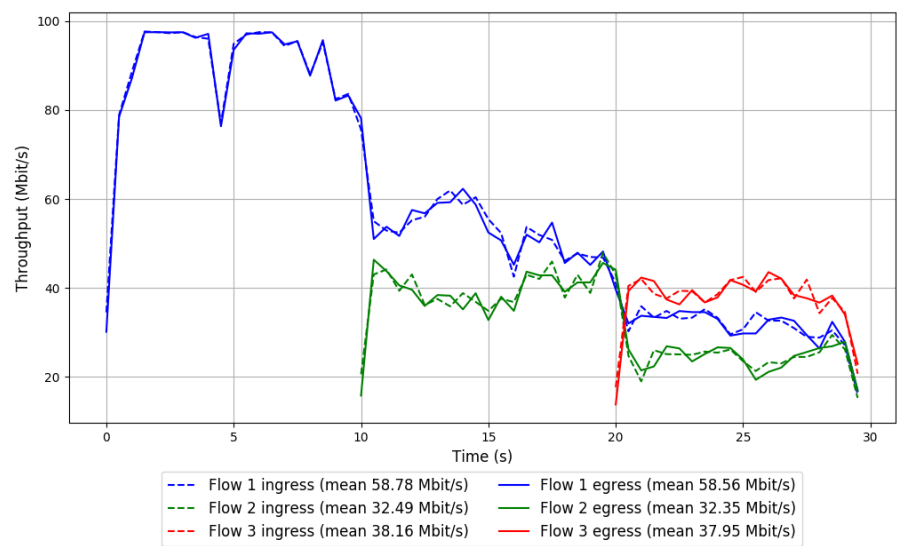
Average throughput: 37.95 Mbit/s

95th percentile per-packet one-way delay: 46.412 ms

Loss rate: 0.59%



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



Run 8: Statistics of Indigo-1-32

Start at: 2018-02-03 05:36:10

End at: 2018-02-03 05:36:40

Local clock offset: 1.046 ms

Remote clock offset: 2.864 ms

# Below is generated by plot.py at 2018-02-03 07:25:18

# Datalink statistics

-- Total of 3 flows:

Average throughput: 91.83 Mbit/s

95th percentile per-packet one-way delay: 39.654 ms

Loss rate: 0.30%

-- Flow 1:

Average throughput: 60.46 Mbit/s

95th percentile per-packet one-way delay: 38.782 ms

Loss rate: 0.31%

-- Flow 2:

Average throughput: 31.95 Mbit/s

95th percentile per-packet one-way delay: 41.101 ms

Loss rate: 0.38%

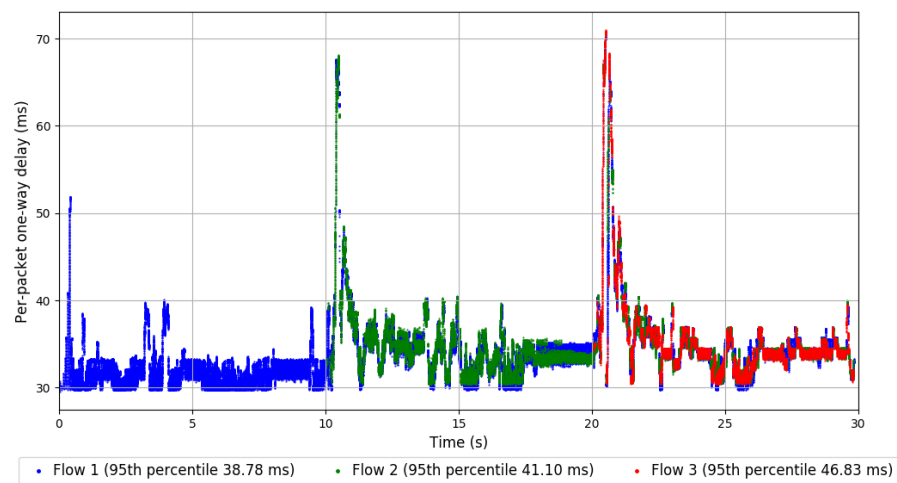
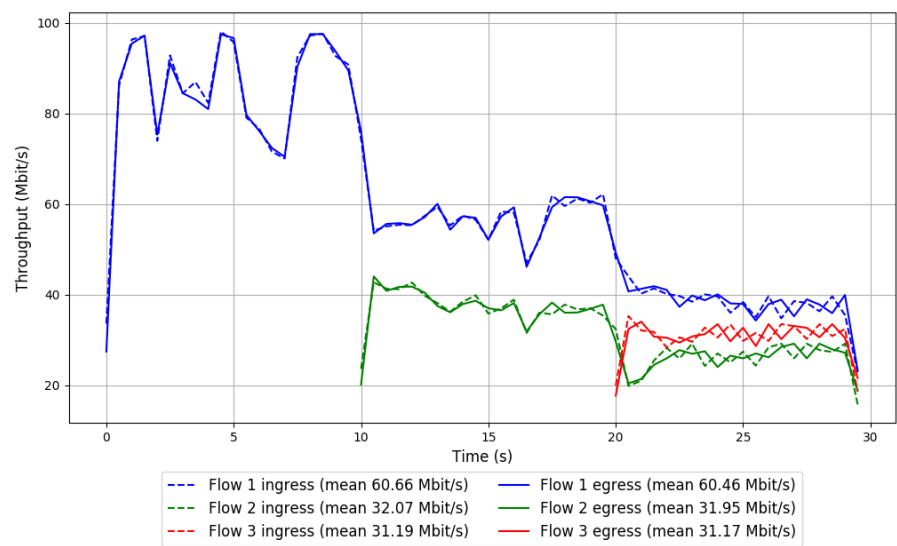
-- Flow 3:

Average throughput: 31.17 Mbit/s

95th percentile per-packet one-way delay: 46.831 ms

Loss rate: 0.09%

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



Run 9: Statistics of Indigo-1-32

Start at: 2018-02-03 06:02:31

End at: 2018-02-03 06:03:01

Local clock offset: 1.008 ms

Remote clock offset: 0.249 ms

# Below is generated by plot.py at 2018-02-03 07:25:28

# Datalink statistics

-- Total of 3 flows:

Average throughput: 94.07 Mbit/s

95th percentile per-packet one-way delay: 39.123 ms

Loss rate: 0.29%

-- Flow 1:

Average throughput: 63.88 Mbit/s

95th percentile per-packet one-way delay: 37.932 ms

Loss rate: 0.32%

-- Flow 2:

Average throughput: 30.69 Mbit/s

95th percentile per-packet one-way delay: 42.568 ms

Loss rate: 0.20%

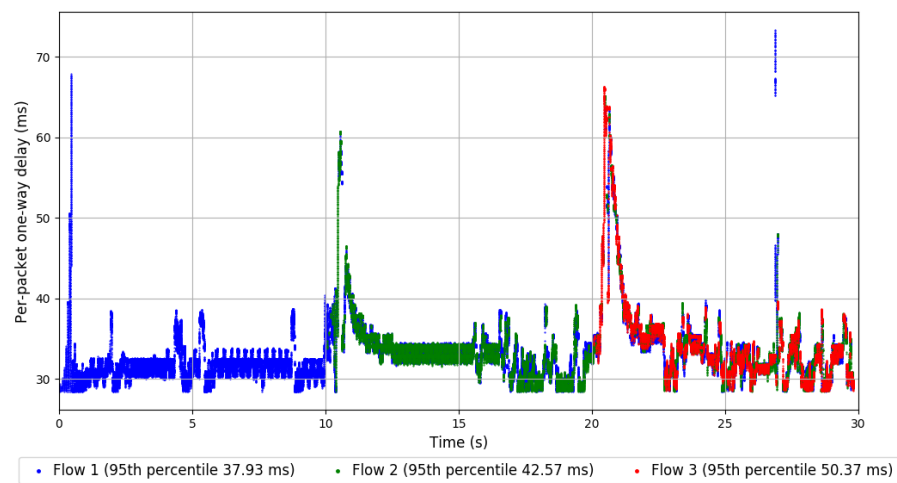
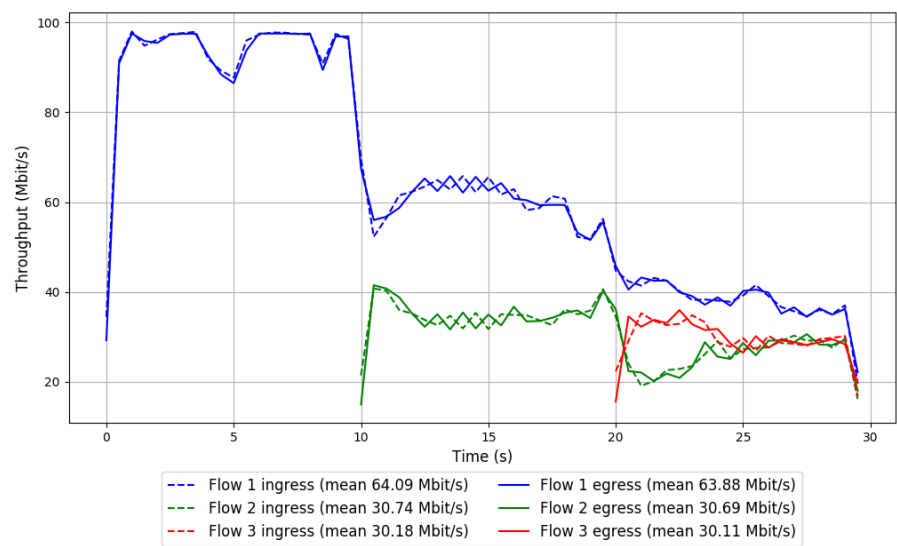
-- Flow 3:

Average throughput: 30.11 Mbit/s

95th percentile per-packet one-way delay: 50.370 ms

Loss rate: 0.30%

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



Run 10: Statistics of Indigo-1-32

Start at: 2018-02-03 06:28:21

End at: 2018-02-03 06:28:51

Local clock offset: 0.8 ms

Remote clock offset: 0.574 ms

# Below is generated by plot.py at 2018-02-03 07:25:35

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.52 Mbit/s

95th percentile per-packet one-way delay: 44.515 ms

Loss rate: 0.16%

-- Flow 1:

Average throughput: 64.18 Mbit/s

95th percentile per-packet one-way delay: 42.315 ms

Loss rate: 0.22%

-- Flow 2:

Average throughput: 29.29 Mbit/s

95th percentile per-packet one-way delay: 46.333 ms

Loss rate: 0.06%

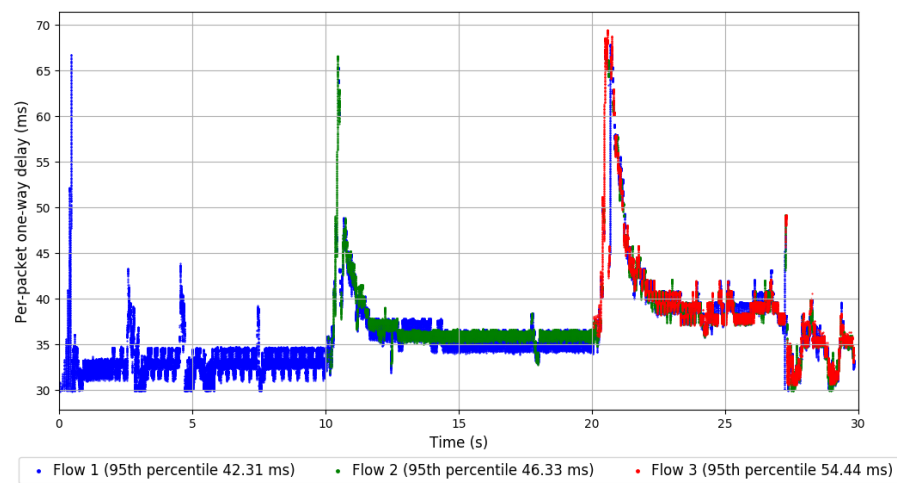
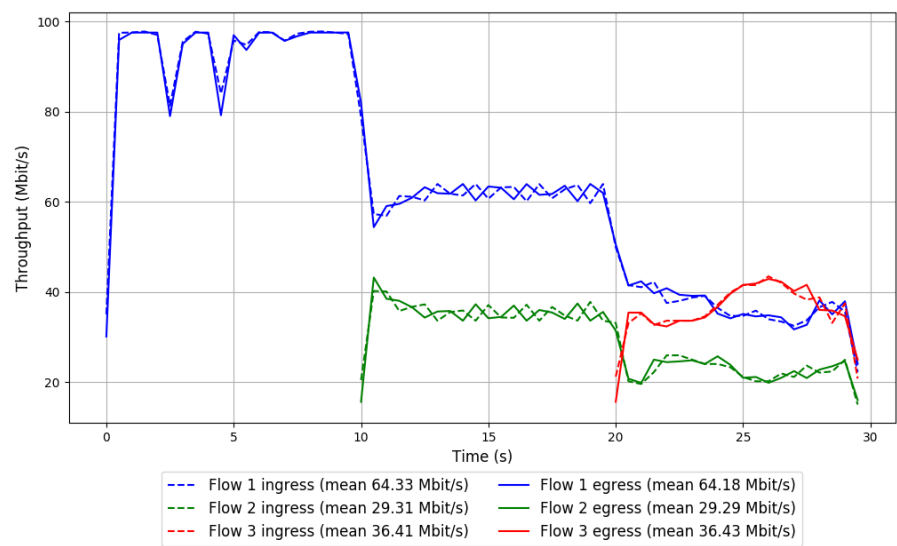
-- Flow 3:

Average throughput: 36.43 Mbit/s

95th percentile per-packet one-way delay: 54.444 ms

Loss rate: 0.00%

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



Run 1: Statistics of Vivace-latency

Start at: 2018-02-03 02:33:17

End at: 2018-02-03 02:33:47

Local clock offset: 1.023 ms

Remote clock offset: 1.05 ms

# Below is generated by plot.py at 2018-02-03 07:25:42

# Datalink statistics

-- Total of 3 flows:

Average throughput: 82.71 Mbit/s

95th percentile per-packet one-way delay: 40.383 ms

Loss rate: 0.44%

-- Flow 1:

Average throughput: 57.01 Mbit/s

95th percentile per-packet one-way delay: 40.420 ms

Loss rate: 0.45%

-- Flow 2:

Average throughput: 29.95 Mbit/s

95th percentile per-packet one-way delay: 42.098 ms

Loss rate: 0.51%

-- Flow 3:

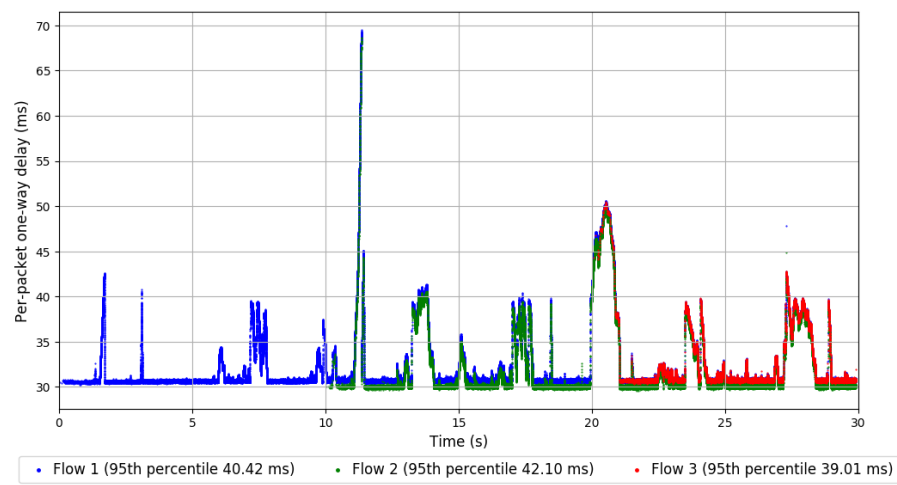
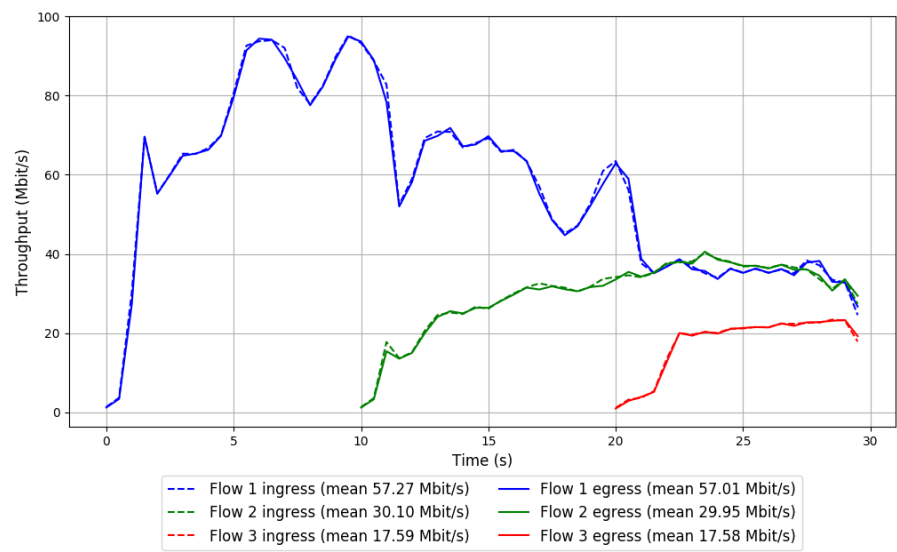
Average throughput: 17.58 Mbit/s

95th percentile per-packet one-way delay: 39.010 ms

Loss rate: 0.15%



Run 1: Report of Vivace-latency — Data Link

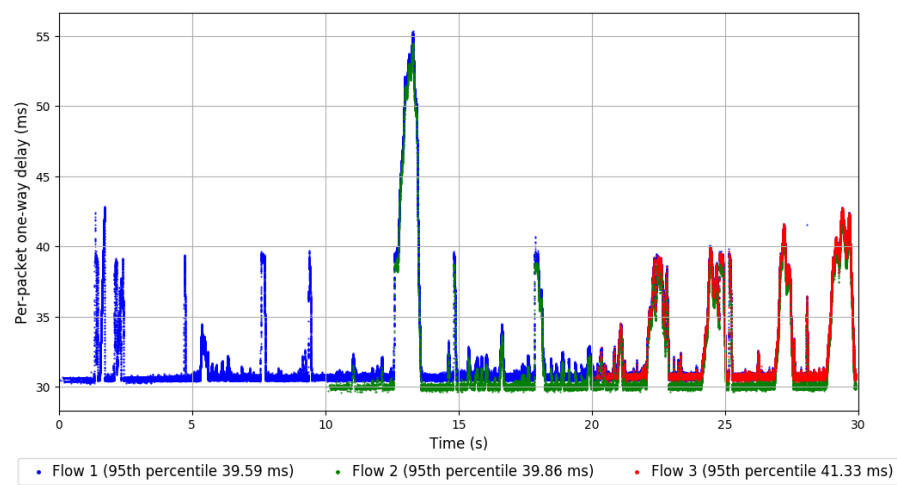
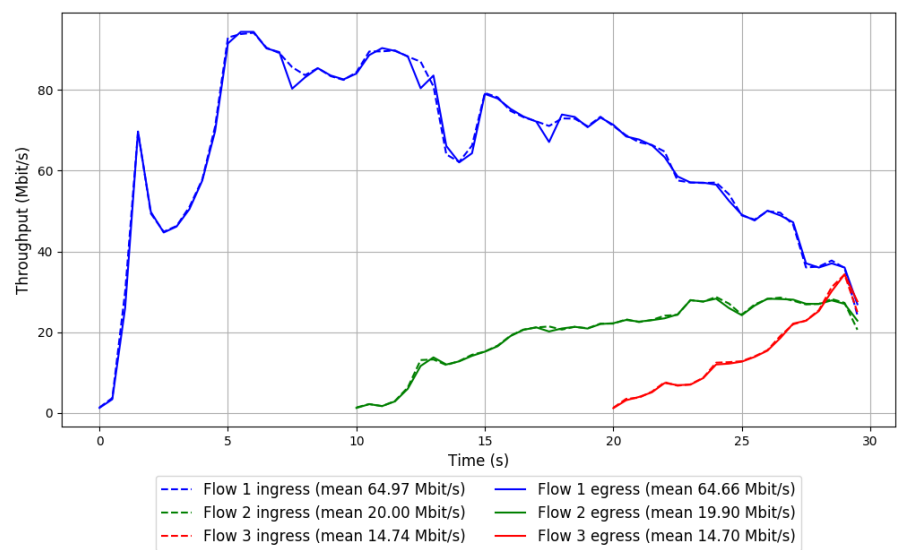


Run 2: Statistics of Vivace-latency

Start at: 2018-02-03 02:58:24  
End at: 2018-02-03 02:58:54  
Local clock offset: 1.13 ms  
Remote clock offset: -0.107 ms

# Below is generated by plot.py at 2018-02-03 07:26:03  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 82.74 Mbit/s  
95th percentile per-packet one-way delay: 39.916 ms  
Loss rate: 0.47%  
-- Flow 1:  
Average throughput: 64.66 Mbit/s  
95th percentile per-packet one-way delay: 39.590 ms  
Loss rate: 0.48%  
-- Flow 2:  
Average throughput: 19.90 Mbit/s  
95th percentile per-packet one-way delay: 39.856 ms  
Loss rate: 0.50%  
-- Flow 3:  
Average throughput: 14.70 Mbit/s  
95th percentile per-packet one-way delay: 41.325 ms  
Loss rate: 0.27%

Run 2: Report of Vivace-latency — Data Link

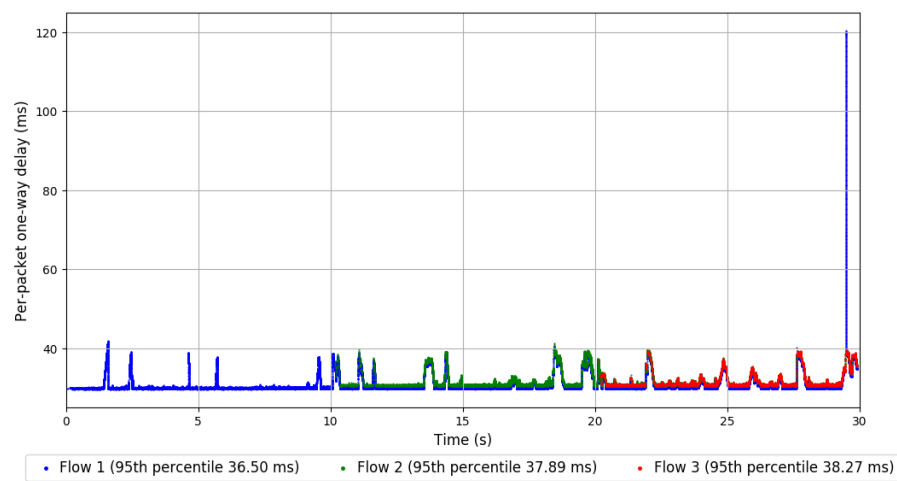
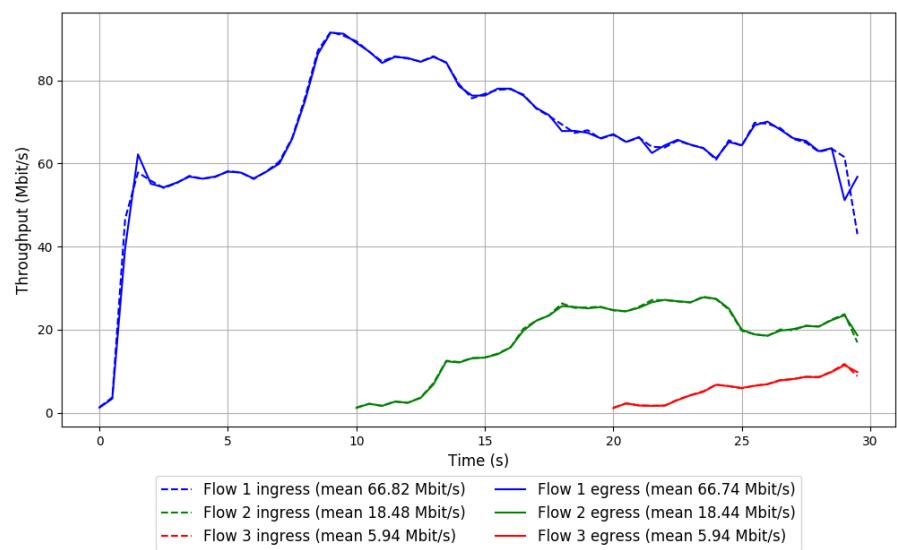


Run 3: Statistics of Vivace-latency

Start at: 2018-02-03 03:25:04  
End at: 2018-02-03 03:25:34  
Local clock offset: 1.319 ms  
Remote clock offset: -1.767 ms

# Below is generated by plot.py at 2018-02-03 07:26:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 80.95 Mbit/s  
95th percentile per-packet one-way delay: 36.780 ms  
Loss rate: 0.12%  
-- Flow 1:  
Average throughput: 66.74 Mbit/s  
95th percentile per-packet one-way delay: 36.502 ms  
Loss rate: 0.11%  
-- Flow 2:  
Average throughput: 18.44 Mbit/s  
95th percentile per-packet one-way delay: 37.886 ms  
Loss rate: 0.16%  
-- Flow 3:  
Average throughput: 5.94 Mbit/s  
95th percentile per-packet one-way delay: 38.267 ms  
Loss rate: 0.02%

Run 3: Report of Vivace-latency — Data Link

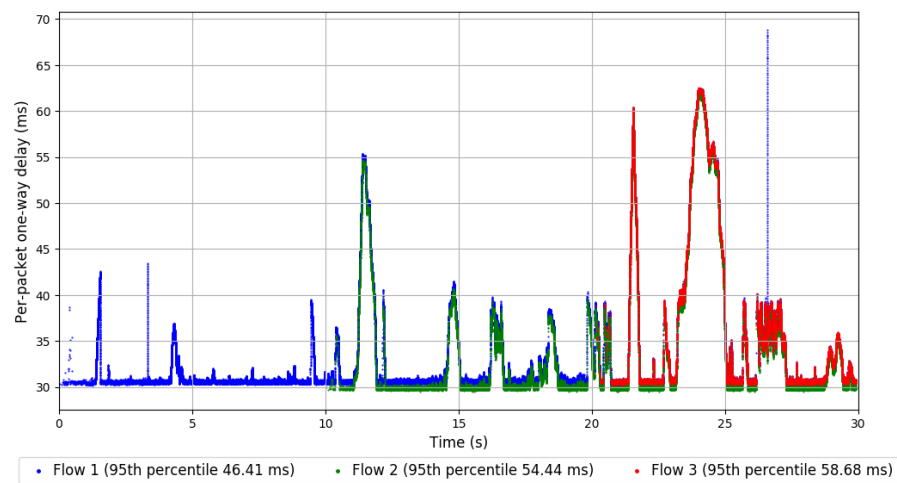
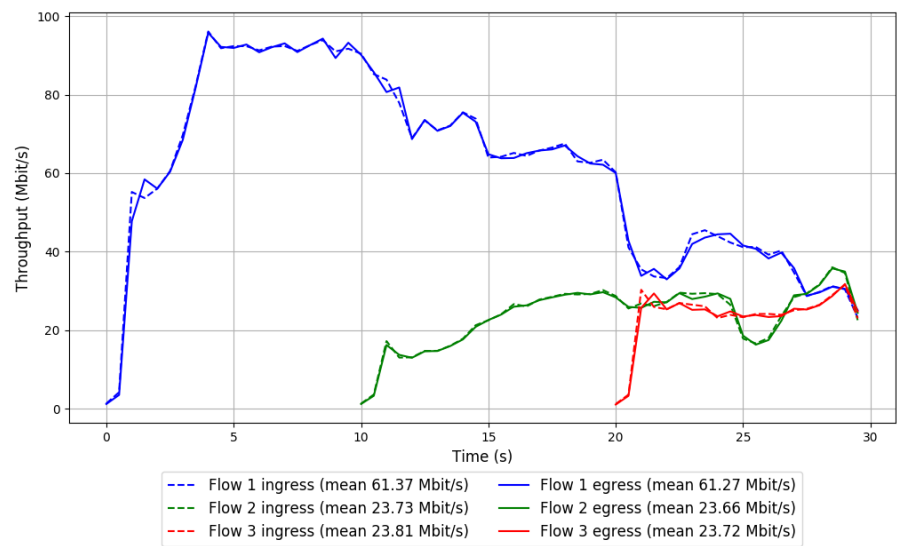


Run 4: Statistics of Vivace-latency

Start at: 2018-02-03 03:50:39  
End at: 2018-02-03 03:51:09  
Local clock offset: 1.357 ms  
Remote clock offset: -1.563 ms

# Below is generated by plot.py at 2018-02-03 07:26:21  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 84.81 Mbit/s  
95th percentile per-packet one-way delay: 52.420 ms  
Loss rate: 0.21%  
-- Flow 1:  
Average throughput: 61.27 Mbit/s  
95th percentile per-packet one-way delay: 46.406 ms  
Loss rate: 0.16%  
-- Flow 2:  
Average throughput: 23.66 Mbit/s  
95th percentile per-packet one-way delay: 54.444 ms  
Loss rate: 0.28%  
-- Flow 3:  
Average throughput: 23.72 Mbit/s  
95th percentile per-packet one-way delay: 58.680 ms  
Loss rate: 0.38%

Run 4: Report of Vivace-latency — Data Link



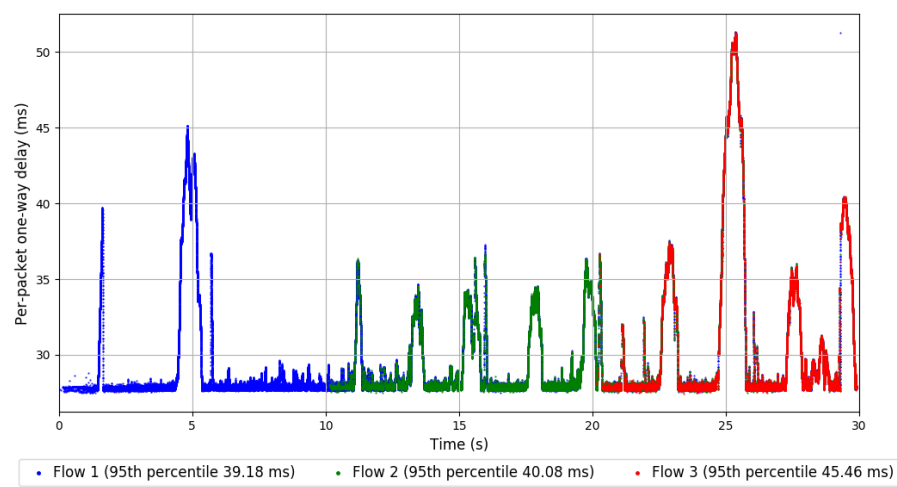
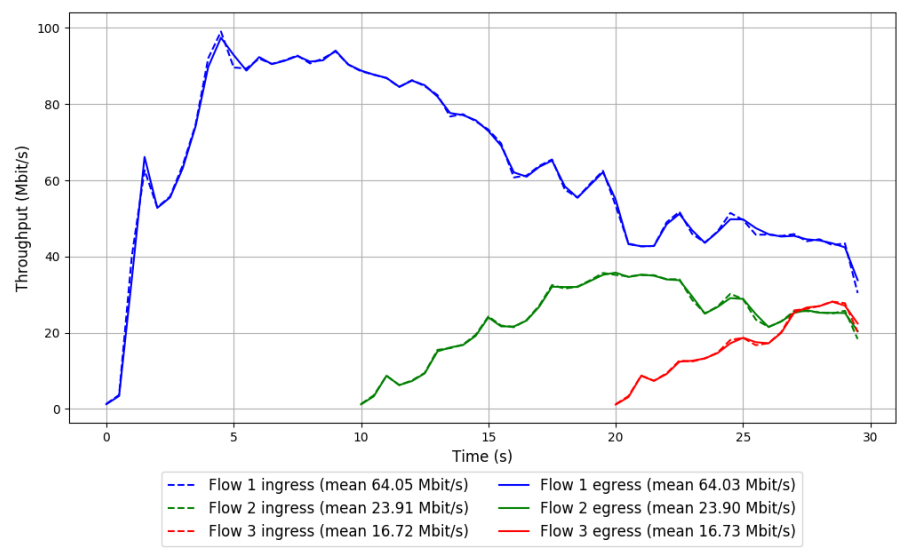
Run 5: Statistics of Vivace-latency

Start at: 2018-02-03 04:15:43  
End at: 2018-02-03 04:16:13  
Local clock offset: 1.391 ms  
Remote clock offset: -2.483 ms

# Below is generated by plot.py at 2018-02-03 07:26:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 85.43 Mbit/s  
95th percentile per-packet one-way delay: 39.956 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 64.03 Mbit/s  
95th percentile per-packet one-way delay: 39.184 ms  
Loss rate: 0.02%  
-- Flow 2:  
Average throughput: 23.90 Mbit/s  
95th percentile per-packet one-way delay: 40.081 ms  
Loss rate: 0.04%  
-- Flow 3:  
Average throughput: 16.73 Mbit/s  
95th percentile per-packet one-way delay: 45.458 ms  
Loss rate: 0.00%



Run 5: Report of Vivace-latency — Data Link



Run 6: Statistics of Vivace-latency

Start at: 2018-02-03 04:41:19

End at: 2018-02-03 04:41:49

Local clock offset: 1.307 ms

Remote clock offset: 1.284 ms

# Below is generated by plot.py at 2018-02-03 07:26:39

# Datalink statistics

-- Total of 3 flows:

Average throughput: 80.52 Mbit/s

95th percentile per-packet one-way delay: 49.290 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 57.21 Mbit/s

95th percentile per-packet one-way delay: 52.009 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 22.64 Mbit/s

95th percentile per-packet one-way delay: 41.066 ms

Loss rate: 0.05%

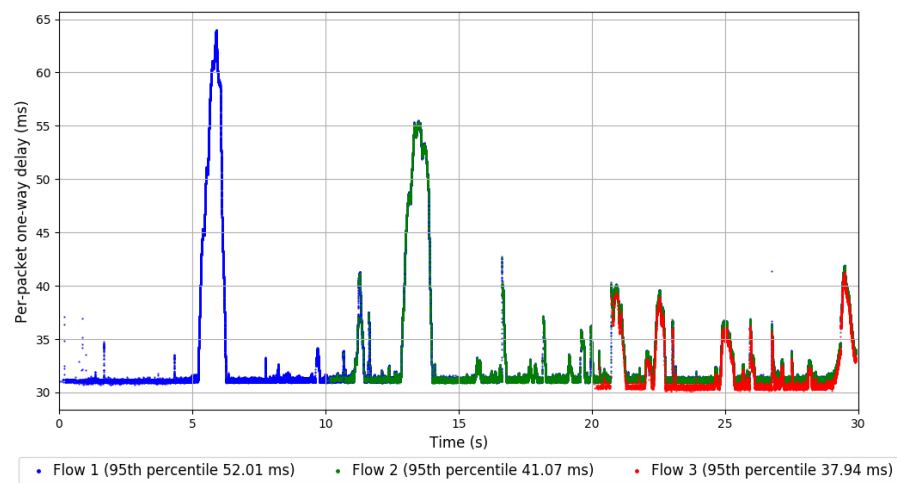
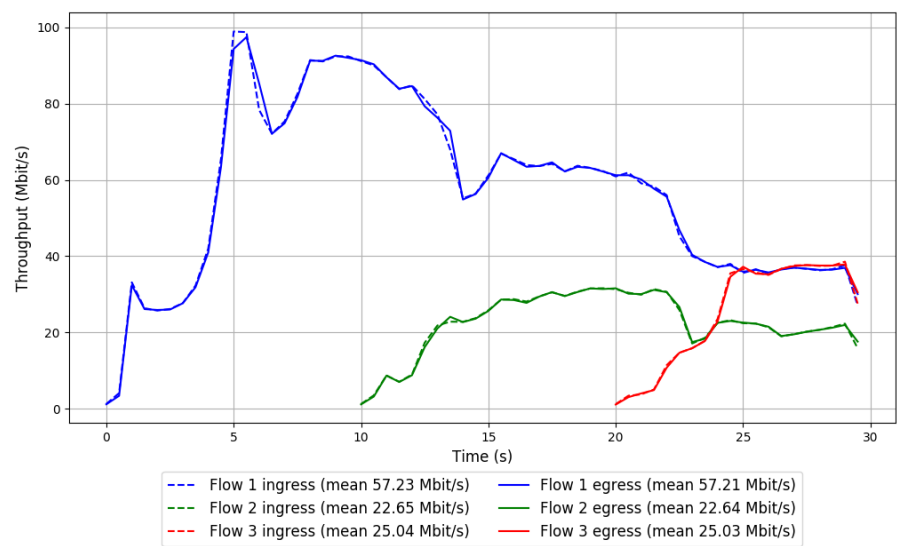
-- Flow 3:

Average throughput: 25.03 Mbit/s

95th percentile per-packet one-way delay: 37.943 ms

Loss rate: 0.00%

Run 6: Report of Vivace-latency — Data Link



Run 7: Statistics of Vivace-latency

Start at: 2018-02-03 05:07:18

End at: 2018-02-03 05:07:48

Local clock offset: 1.22 ms

Remote clock offset: 2.103 ms

# Below is generated by plot.py at 2018-02-03 07:26:42

# Datalink statistics

-- Total of 3 flows:

Average throughput: 75.02 Mbit/s

95th percentile per-packet one-way delay: 42.825 ms

Loss rate: 0.57%

-- Flow 1:

Average throughput: 53.47 Mbit/s

95th percentile per-packet one-way delay: 44.784 ms

Loss rate: 0.67%

-- Flow 2:

Average throughput: 24.83 Mbit/s

95th percentile per-packet one-way delay: 39.819 ms

Loss rate: 0.29%

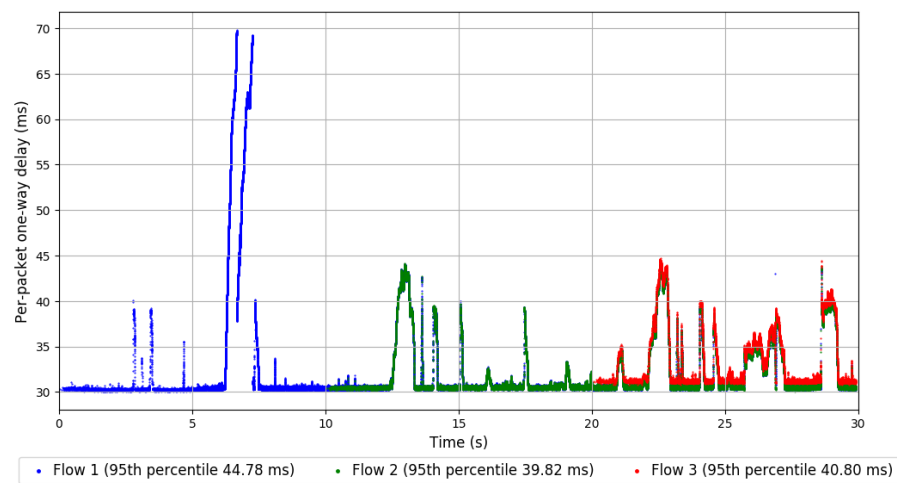
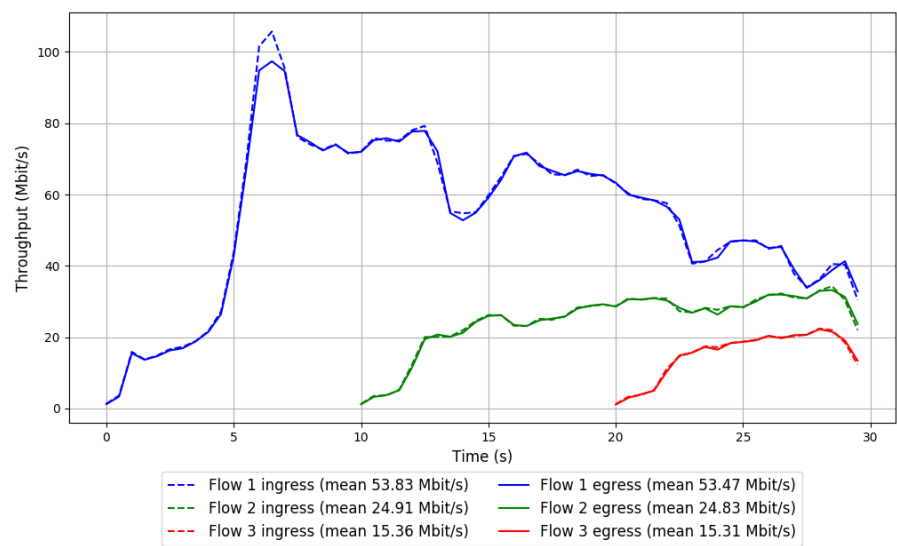
-- Flow 3:

Average throughput: 15.31 Mbit/s

95th percentile per-packet one-way delay: 40.803 ms

Loss rate: 0.33%

Run 7: Report of Vivace-latency — Data Link



Run 8: Statistics of Vivace-latency

Start at: 2018-02-03 05:34:31

End at: 2018-02-03 05:35:01

Local clock offset: 1.074 ms

Remote clock offset: 2.882 ms

# Below is generated by plot.py at 2018-02-03 07:26:53

# Datalink statistics

-- Total of 3 flows:

Average throughput: 80.48 Mbit/s

95th percentile per-packet one-way delay: 38.818 ms

Loss rate: 0.35%

-- Flow 1:

Average throughput: 70.30 Mbit/s

95th percentile per-packet one-way delay: 38.656 ms

Loss rate: 0.34%

-- Flow 2:

Average throughput: 12.61 Mbit/s

95th percentile per-packet one-way delay: 39.423 ms

Loss rate: 0.46%

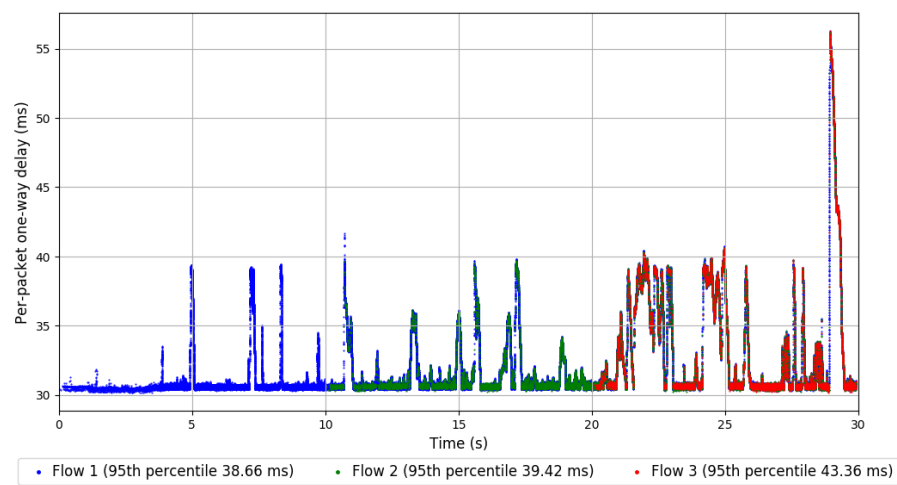
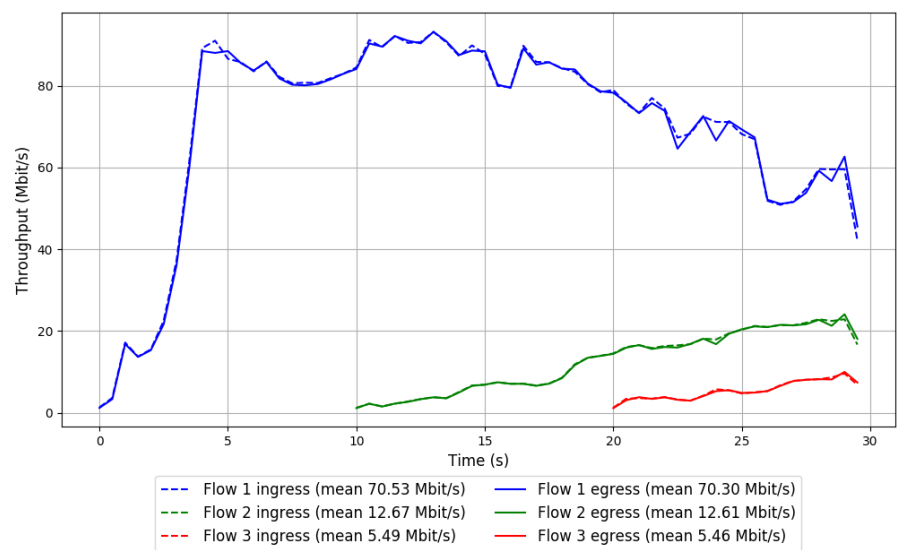
-- Flow 3:

Average throughput: 5.46 Mbit/s

95th percentile per-packet one-way delay: 43.356 ms

Loss rate: 0.54%

Run 8: Report of Vivace-latency — Data Link



Run 9: Statistics of Vivace-latency

Start at: 2018-02-03 06:01:03

End at: 2018-02-03 06:01:33

Local clock offset: 1.02 ms

Remote clock offset: 2.806 ms

# Below is generated by plot.py at 2018-02-03 07:26:55

# Datalink statistics

-- Total of 3 flows:

Average throughput: 74.21 Mbit/s

95th percentile per-packet one-way delay: 38.867 ms

Loss rate: 0.59%

-- Flow 1:

Average throughput: 56.17 Mbit/s

95th percentile per-packet one-way delay: 38.839 ms

Loss rate: 0.57%

-- Flow 2:

Average throughput: 23.71 Mbit/s

95th percentile per-packet one-way delay: 38.869 ms

Loss rate: 0.68%

-- Flow 3:

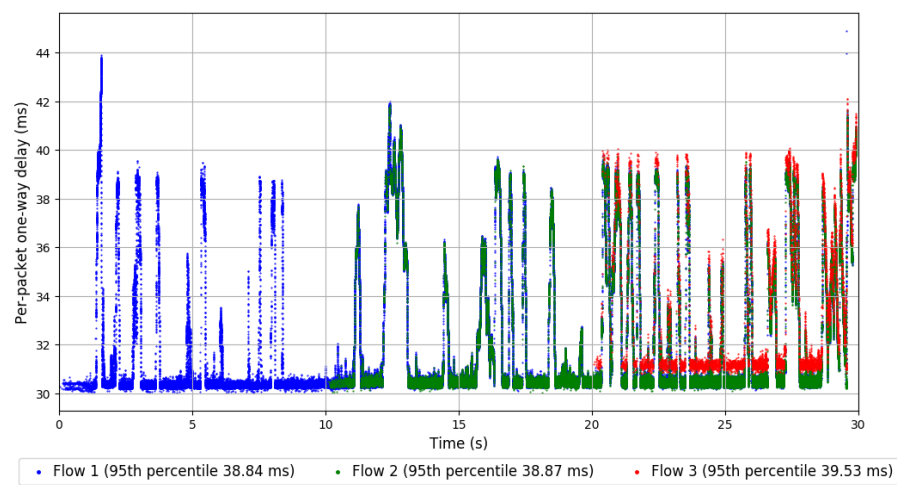
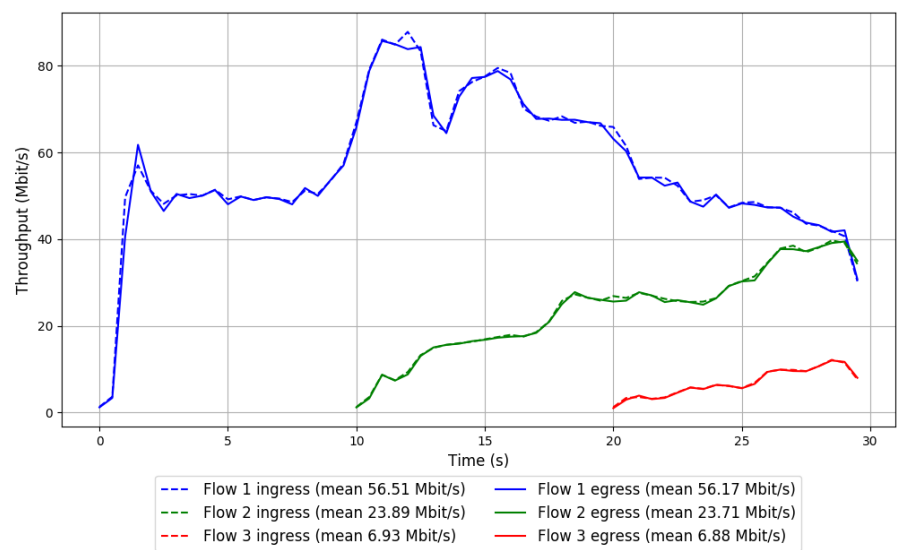
Average throughput: 6.88 Mbit/s

95th percentile per-packet one-way delay: 39.534 ms

Loss rate: 0.66%



Run 9: Report of Vivace-latency — Data Link



Run 10: Statistics of Vivace-latency

Start at: 2018-02-03 06:26:51

End at: 2018-02-03 06:27:21

Local clock offset: 0.883 ms

Remote clock offset: 0.558 ms

# Below is generated by plot.py at 2018-02-03 07:27:22

# Datalink statistics

-- Total of 3 flows:

Average throughput: 85.64 Mbit/s

95th percentile per-packet one-way delay: 46.918 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 61.29 Mbit/s

95th percentile per-packet one-way delay: 45.153 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 27.98 Mbit/s

95th percentile per-packet one-way delay: 50.950 ms

Loss rate: 0.02%

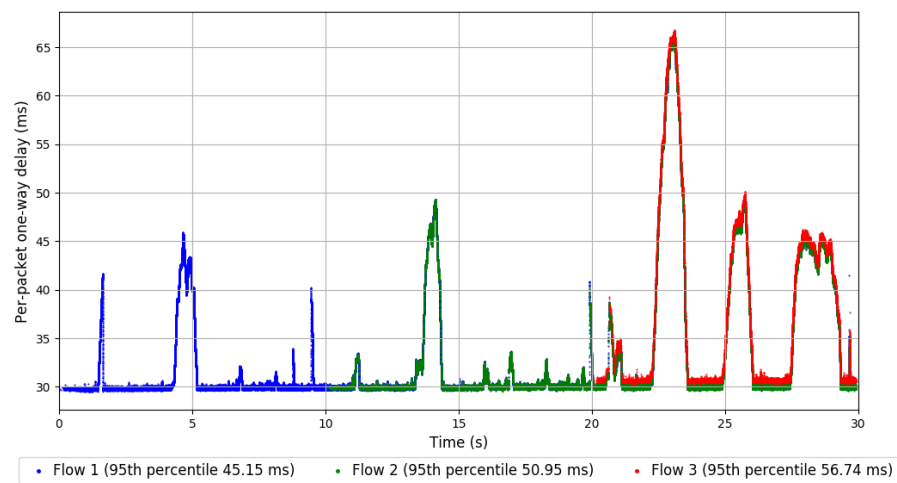
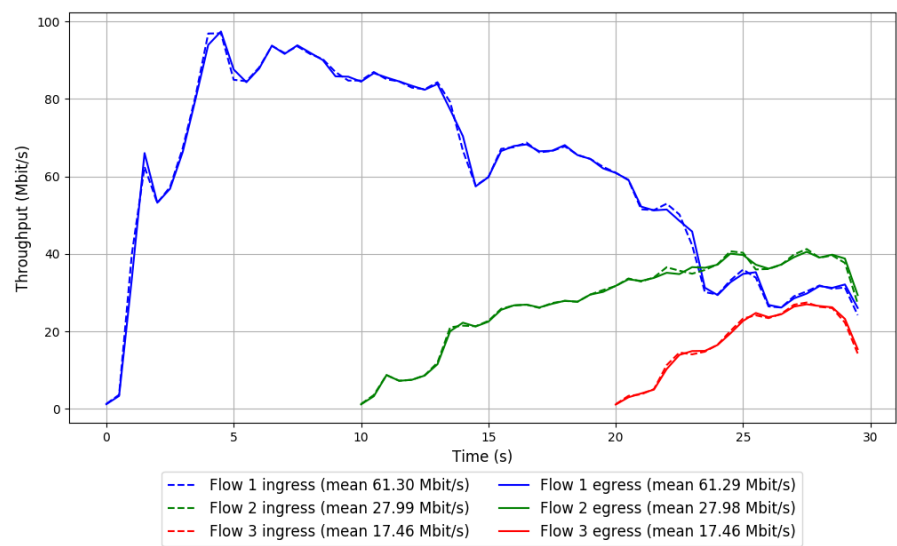
-- Flow 3:

Average throughput: 17.46 Mbit/s

95th percentile per-packet one-way delay: 56.744 ms

Loss rate: 0.00%

Run 10: Report of Vivace-latency — Data Link

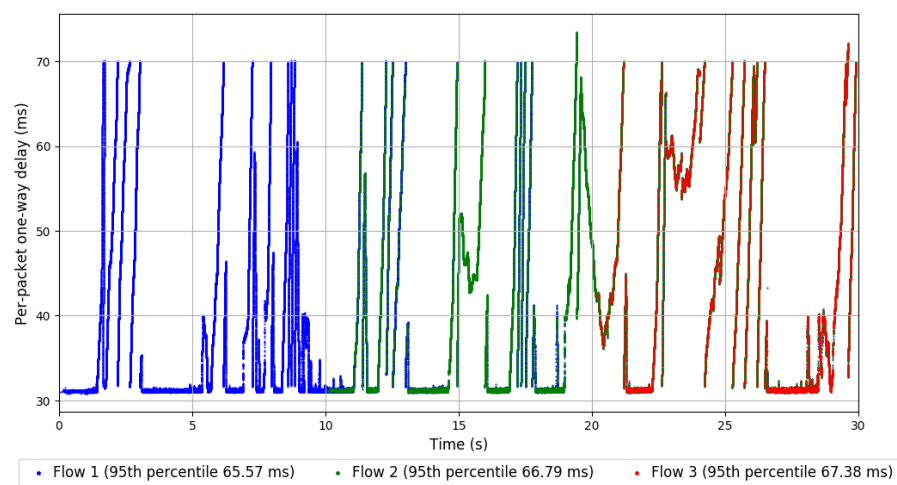
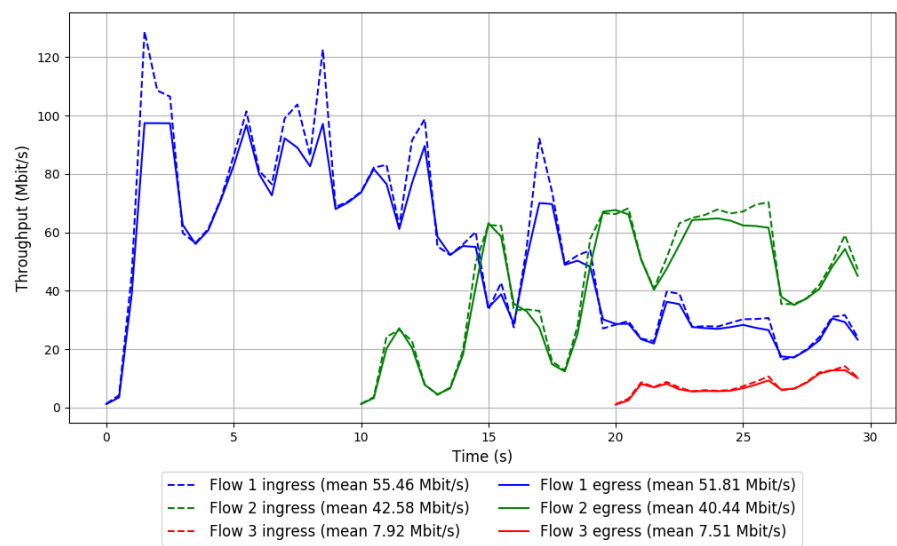


```
Run 1: Statistics of Vivace-loss

Start at: 2018-02-03 02:26:34
End at: 2018-02-03 02:27:04
Local clock offset: 0.988 ms
Remote clock offset: 1.828 ms

# Below is generated by plot.py at 2018-02-03 07:27:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 81.17 Mbit/s
95th percentile per-packet one-way delay: 66.156 ms
Loss rate: 6.03%
-- Flow 1:
Average throughput: 51.81 Mbit/s
95th percentile per-packet one-way delay: 65.566 ms
Loss rate: 6.58%
-- Flow 2:
Average throughput: 40.44 Mbit/s
95th percentile per-packet one-way delay: 66.788 ms
Loss rate: 5.02%
-- Flow 3:
Average throughput: 7.51 Mbit/s
95th percentile per-packet one-way delay: 67.380 ms
Loss rate: 5.41%
```

Run 1: Report of Vivace-loss — Data Link



Run 2: Statistics of Vivace-loss

Start at: 2018-02-03 02:51:40

End at: 2018-02-03 02:52:10

Local clock offset: 1.183 ms

Remote clock offset: 0.436 ms

# Below is generated by plot.py at 2018-02-03 07:27:38

# Datalink statistics

-- Total of 3 flows:

Average throughput: 81.66 Mbit/s

95th percentile per-packet one-way delay: 62.930 ms

Loss rate: 5.17%

-- Flow 1:

Average throughput: 55.08 Mbit/s

95th percentile per-packet one-way delay: 63.079 ms

Loss rate: 5.15%

-- Flow 2:

Average throughput: 28.33 Mbit/s

95th percentile per-packet one-way delay: 62.728 ms

Loss rate: 5.17%

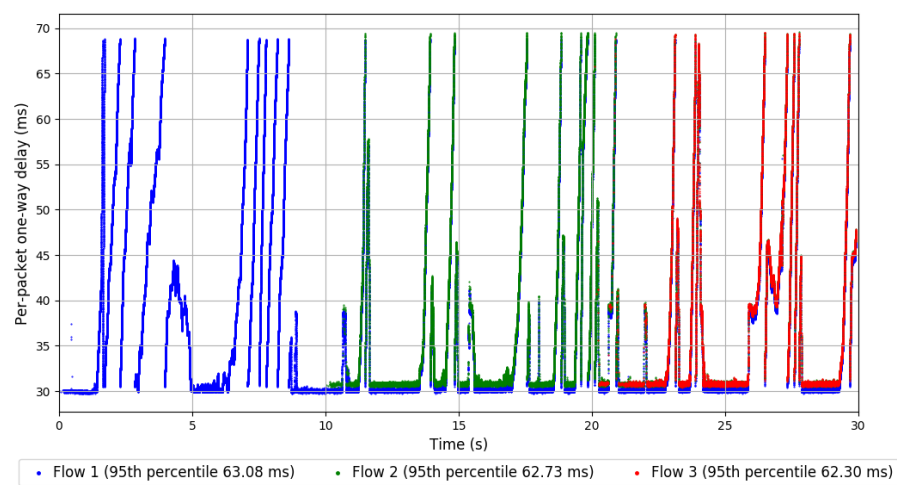
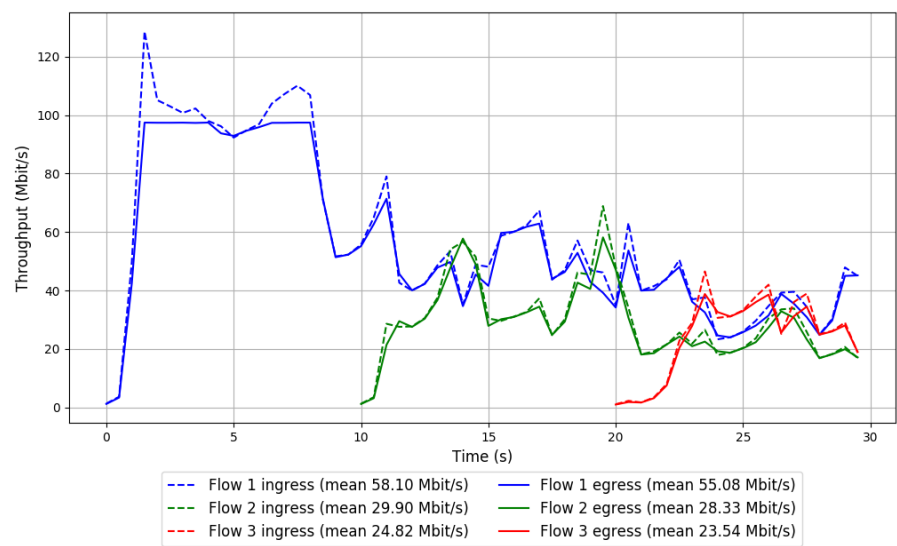
-- Flow 3:

Average throughput: 23.54 Mbit/s

95th percentile per-packet one-way delay: 62.296 ms

Loss rate: 5.33%

Run 2: Report of Vivace-loss — Data Link



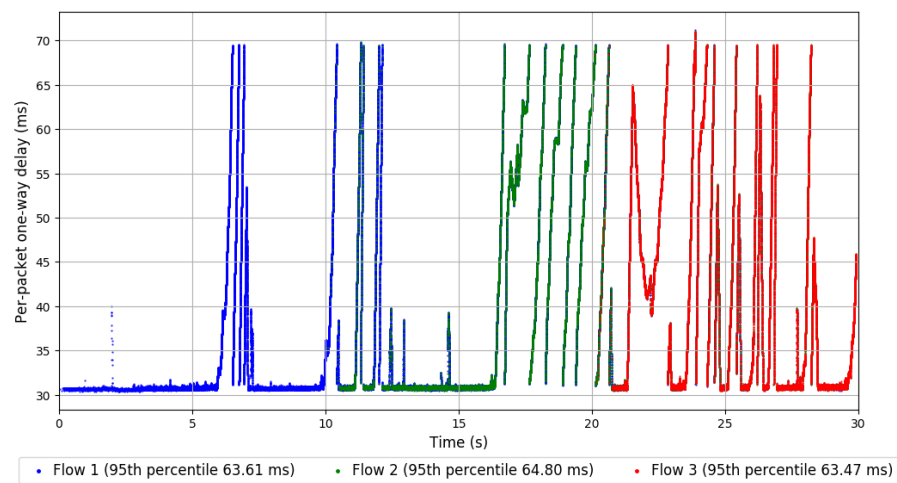
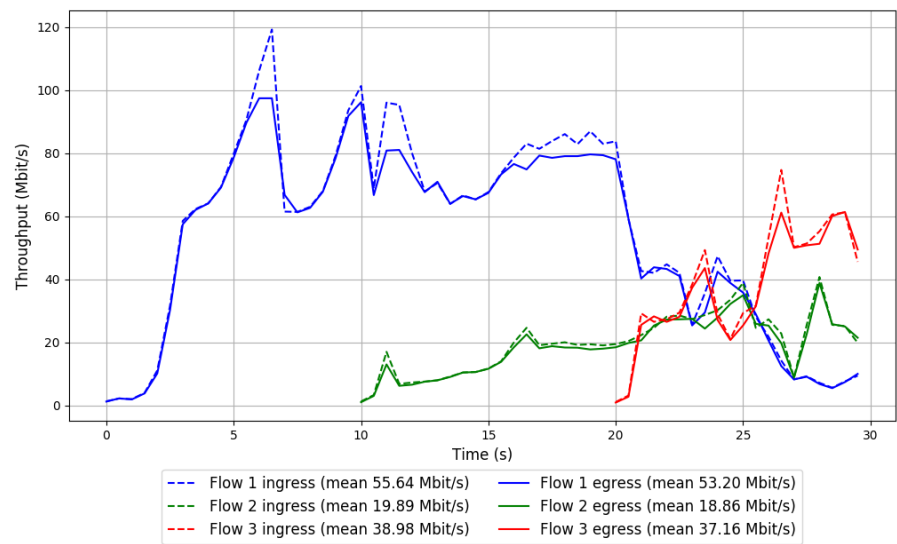
Run 3: Statistics of Vivace-loss

Start at: 2018-02-03 03:18:09  
End at: 2018-02-03 03:18:39  
Local clock offset: 1.272 ms  
Remote clock offset: -1.375 ms

# Below is generated by plot.py at 2018-02-03 07:27:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 77.94 Mbit/s  
95th percentile per-packet one-way delay: 63.822 ms  
Loss rate: 4.55%  
-- Flow 1:  
Average throughput: 53.20 Mbit/s  
95th percentile per-packet one-way delay: 63.609 ms  
Loss rate: 4.34%  
-- Flow 2:  
Average throughput: 18.86 Mbit/s  
95th percentile per-packet one-way delay: 64.797 ms  
Loss rate: 5.09%  
-- Flow 3:  
Average throughput: 37.16 Mbit/s  
95th percentile per-packet one-way delay: 63.468 ms  
Loss rate: 4.88%



Run 3: Report of Vivace-loss — Data Link

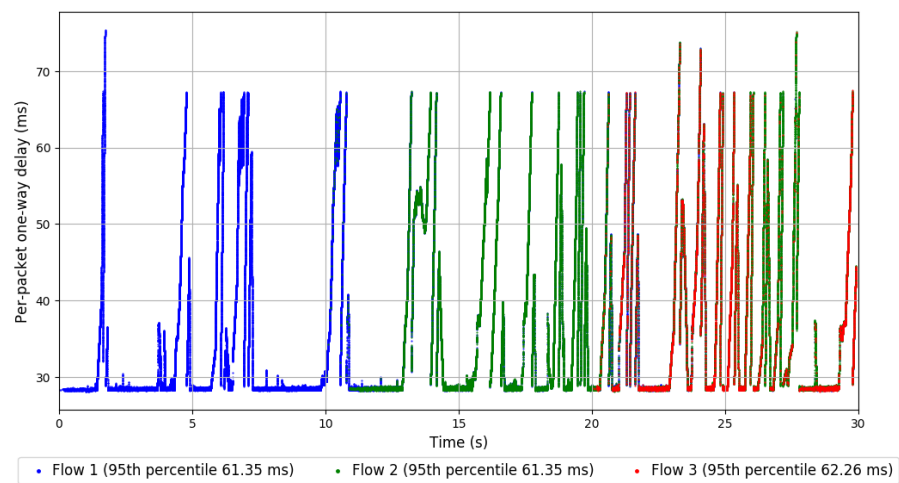
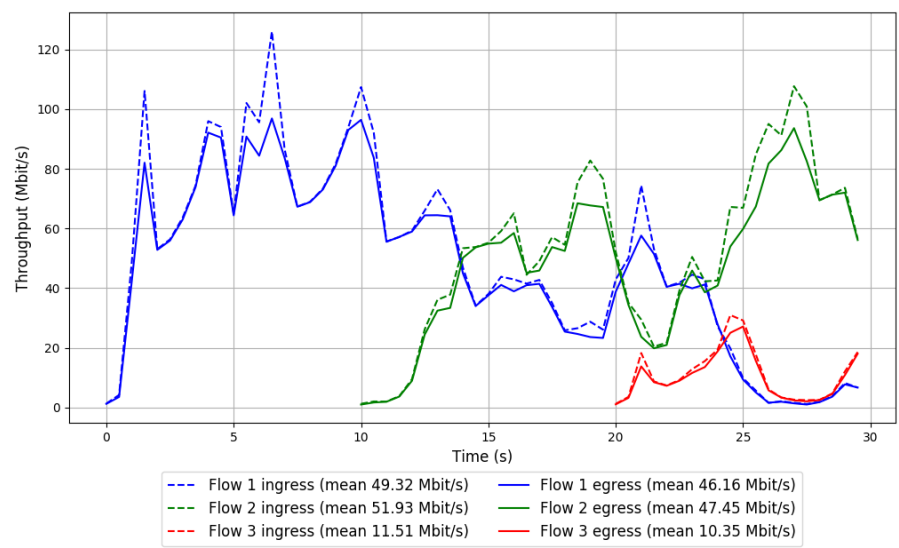


Run 4: Statistics of Vivace-loss

Start at: 2018-02-03 03:43:52  
End at: 2018-02-03 03:44:22  
Local clock offset: 1.327 ms  
Remote clock offset: -3.859 ms

# Below is generated by plot.py at 2018-02-03 07:27:57  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 81.13 Mbit/s  
95th percentile per-packet one-way delay: 61.396 ms  
Loss rate: 7.38%  
-- Flow 1:  
Average throughput: 46.16 Mbit/s  
95th percentile per-packet one-way delay: 61.349 ms  
Loss rate: 6.36%  
-- Flow 2:  
Average throughput: 47.45 Mbit/s  
95th percentile per-packet one-way delay: 61.354 ms  
Loss rate: 8.55%  
-- Flow 3:  
Average throughput: 10.35 Mbit/s  
95th percentile per-packet one-way delay: 62.262 ms  
Loss rate: 9.94%

Run 4: Report of Vivace-loss — Data Link

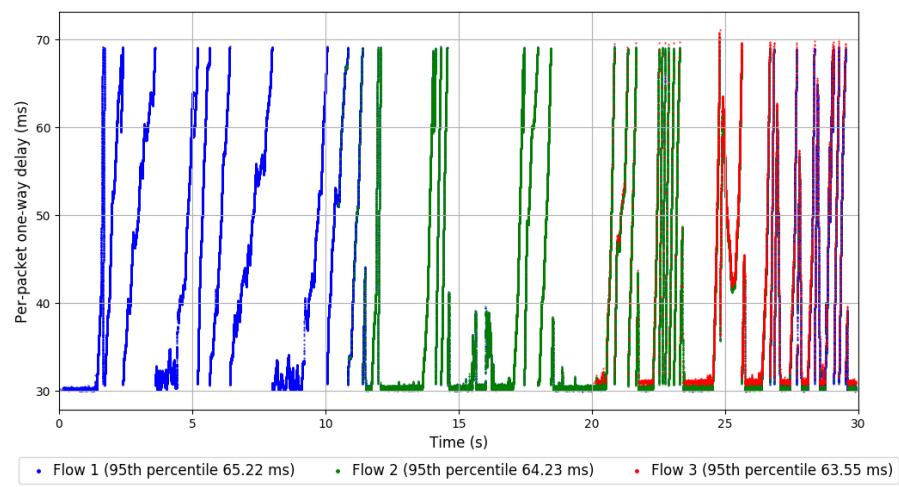
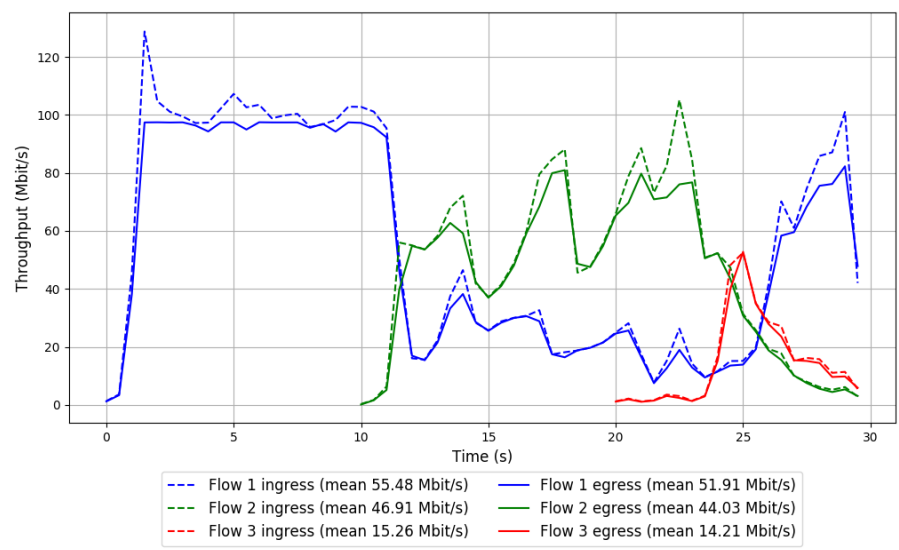


Run 5: Statistics of Vivace-loss

Start at: 2018-02-03 04:08:56  
End at: 2018-02-03 04:09:26  
Local clock offset: 1.403 ms  
Remote clock offset: -0.222 ms

# Below is generated by plot.py at 2018-02-03 07:28:04  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 85.47 Mbit/s  
95th percentile per-packet one-way delay: 64.869 ms  
Loss rate: 6.79%  
-- Flow 1:  
Average throughput: 51.91 Mbit/s  
95th percentile per-packet one-way delay: 65.216 ms  
Loss rate: 6.43%  
-- Flow 2:  
Average throughput: 44.03 Mbit/s  
95th percentile per-packet one-way delay: 64.231 ms  
Loss rate: 7.42%  
-- Flow 3:  
Average throughput: 14.21 Mbit/s  
95th percentile per-packet one-way delay: 63.549 ms  
Loss rate: 6.86%

Run 5: Report of Vivace-loss — Data Link

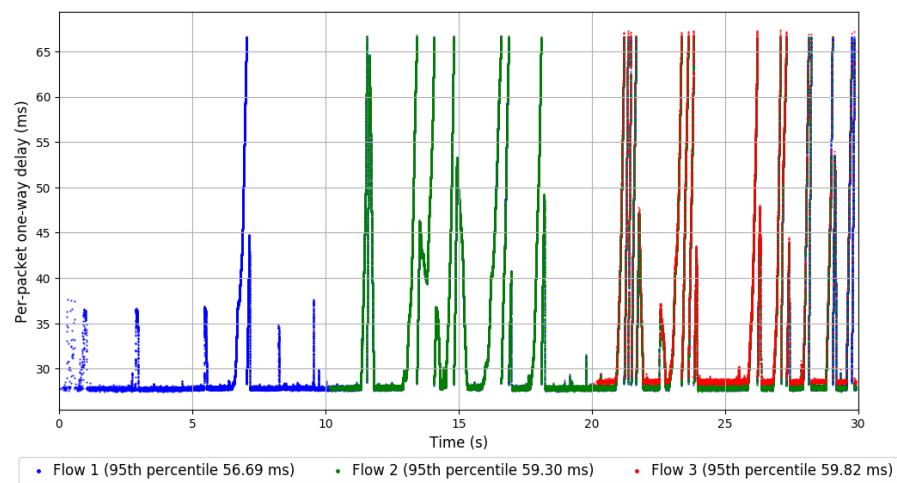
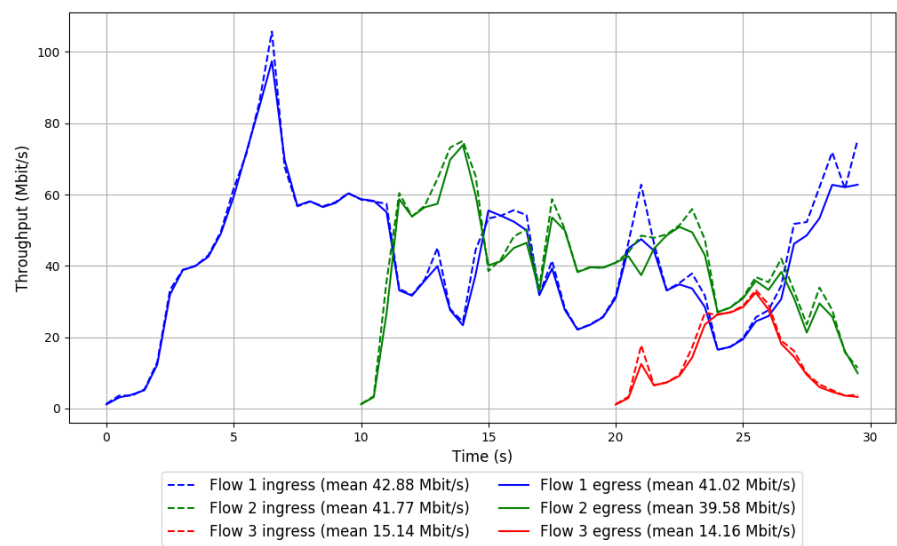


Run 6: Statistics of Vivace-loss

Start at: 2018-02-03 04:34:21  
End at: 2018-02-03 04:34:51  
Local clock offset: 1.299 ms  
Remote clock offset: -1.785 ms

# Below is generated by plot.py at 2018-02-03 07:28:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 72.00 Mbit/s  
95th percentile per-packet one-way delay: 58.080 ms  
Loss rate: 4.82%  
-- Flow 1:  
Average throughput: 41.02 Mbit/s  
95th percentile per-packet one-way delay: 56.692 ms  
Loss rate: 4.36%  
-- Flow 2:  
Average throughput: 39.58 Mbit/s  
95th percentile per-packet one-way delay: 59.305 ms  
Loss rate: 5.24%  
-- Flow 3:  
Average throughput: 14.16 Mbit/s  
95th percentile per-packet one-way delay: 59.821 ms  
Loss rate: 6.47%

Run 6: Report of Vivace-loss — Data Link



Run 7: Statistics of Vivace-loss

Start at: 2018-02-03 05:00:31

End at: 2018-02-03 05:01:01

Local clock offset: 1.266 ms

Remote clock offset: -0.72 ms

# Below is generated by plot.py at 2018-02-03 07:28:16

# Datalink statistics

-- Total of 3 flows:

Average throughput: 86.04 Mbit/s

95th percentile per-packet one-way delay: 62.430 ms

Loss rate: 5.64%

-- Flow 1:

Average throughput: 73.17 Mbit/s

95th percentile per-packet one-way delay: 62.351 ms

Loss rate: 5.68%

-- Flow 2:

Average throughput: 11.92 Mbit/s

95th percentile per-packet one-way delay: 62.484 ms

Loss rate: 5.25%

-- Flow 3:

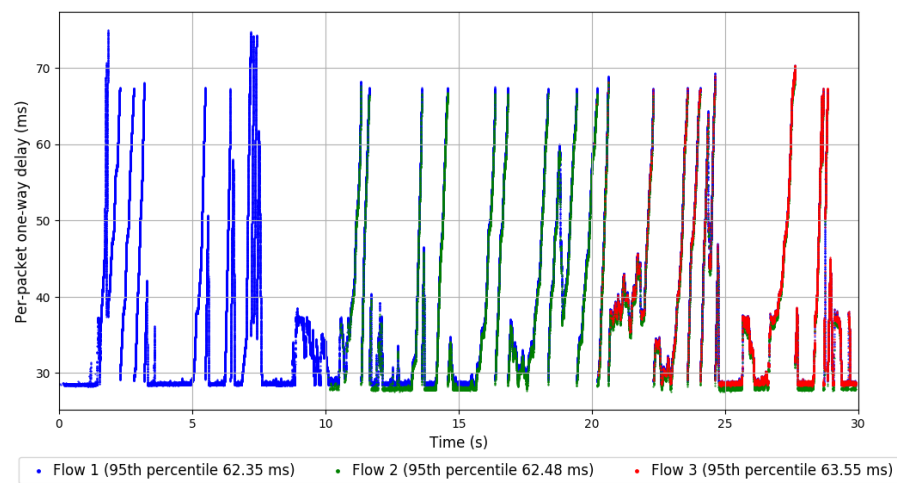
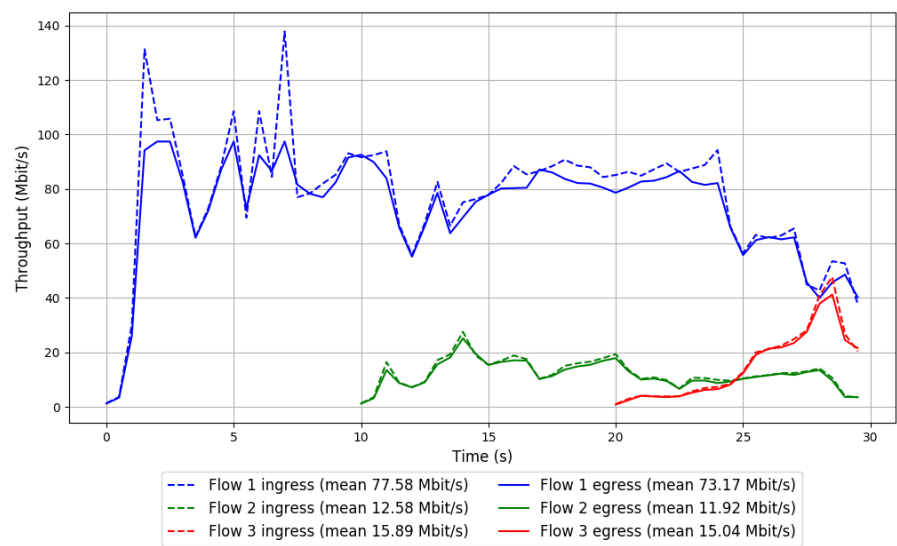
Average throughput: 15.04 Mbit/s

95th percentile per-packet one-way delay: 63.545 ms

Loss rate: 5.67%



Run 7: Report of Vivace-loss — Data Link



Run 8: Statistics of Vivace-loss

Start at: 2018-02-03 05:27:15

End at: 2018-02-03 05:27:45

Local clock offset: 1.104 ms

Remote clock offset: 2.474 ms

# Below is generated by plot.py at 2018-02-03 07:28:40

# Datalink statistics

-- Total of 3 flows:

Average throughput: 80.29 Mbit/s

95th percentile per-packet one-way delay: 66.159 ms

Loss rate: 5.58%

-- Flow 1:

Average throughput: 49.44 Mbit/s

95th percentile per-packet one-way delay: 65.703 ms

Loss rate: 5.28%

-- Flow 2:

Average throughput: 42.66 Mbit/s

95th percentile per-packet one-way delay: 66.762 ms

Loss rate: 6.06%

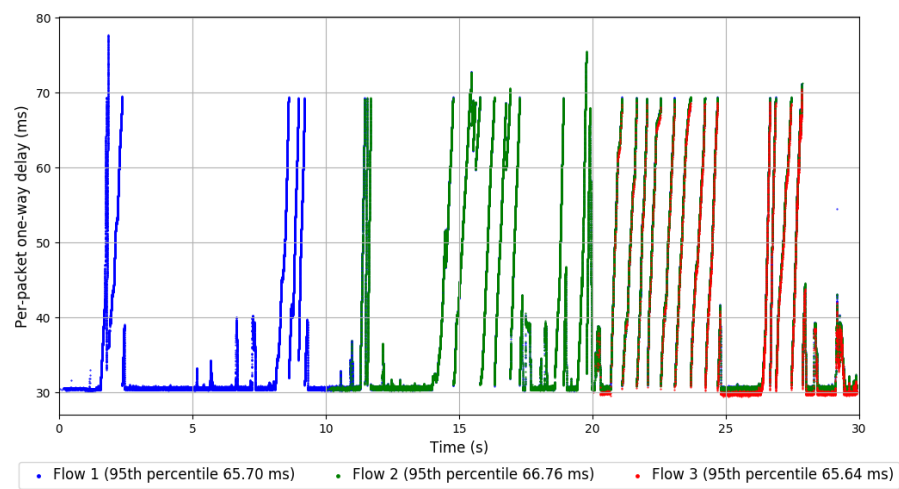
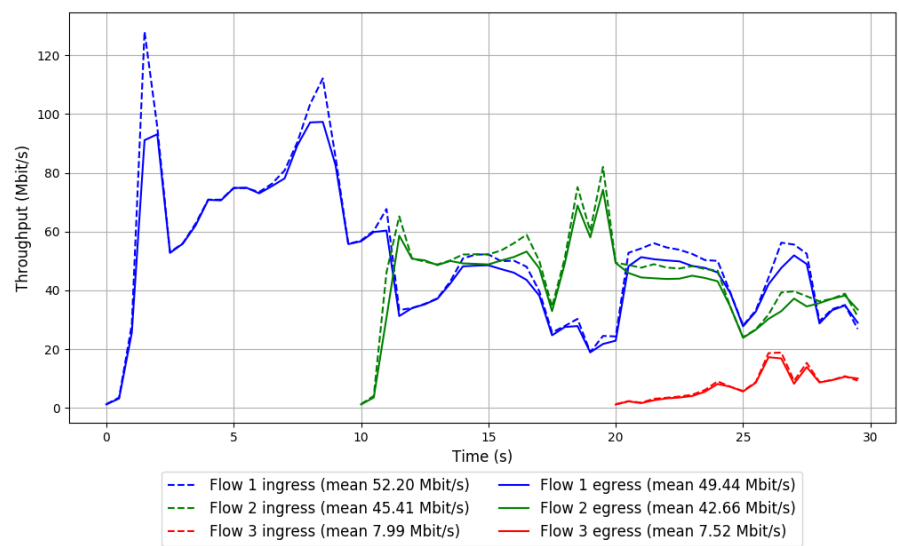
-- Flow 3:

Average throughput: 7.52 Mbit/s

95th percentile per-packet one-way delay: 65.644 ms

Loss rate: 5.88%

Run 8: Report of Vivace-loss — Data Link



Run 9: Statistics of Vivace-loss

Start at: 2018-02-03 05:54:09

End at: 2018-02-03 05:54:39

Local clock offset: 0.93 ms

Remote clock offset: 2.545 ms

# Below is generated by plot.py at 2018-02-03 07:28:43

# Datalink statistics

-- Total of 3 flows:

Average throughput: 74.26 Mbit/s

95th percentile per-packet one-way delay: 63.126 ms

Loss rate: 5.12%

-- Flow 1:

Average throughput: 51.01 Mbit/s

95th percentile per-packet one-way delay: 62.083 ms

Loss rate: 4.99%

-- Flow 2:

Average throughput: 20.82 Mbit/s

95th percentile per-packet one-way delay: 64.625 ms

Loss rate: 5.64%

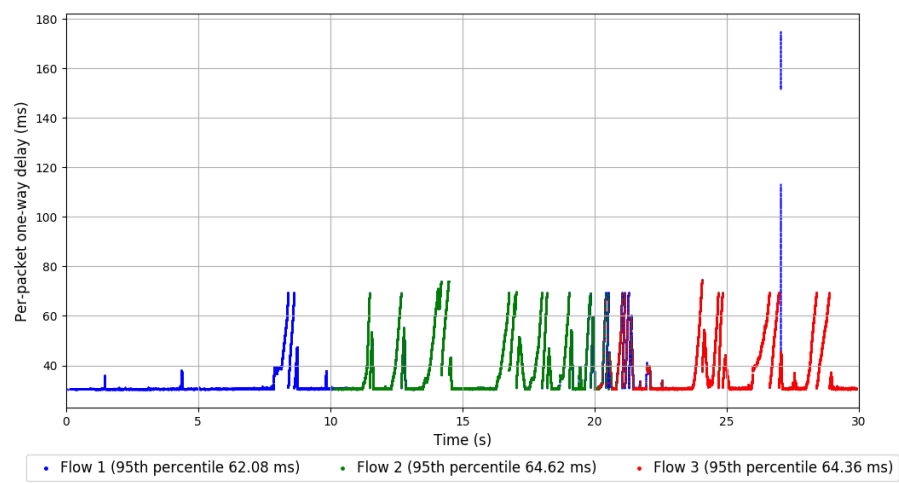
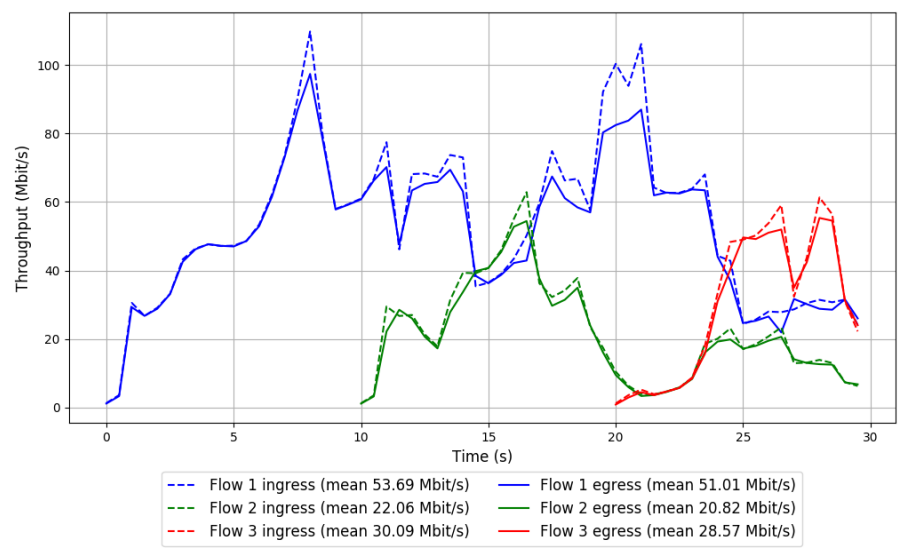
-- Flow 3:

Average throughput: 28.57 Mbit/s

95th percentile per-packet one-way delay: 64.361 ms

Loss rate: 5.06%

Run 9: Report of Vivace-loss — Data Link



Run 10: Statistics of Vivace-loss

Start at: 2018-02-03 06:19:57

End at: 2018-02-03 06:20:27

Local clock offset: 0.853 ms

Remote clock offset: 1.767 ms

# Below is generated by plot.py at 2018-02-03 07:28:51

# Datalink statistics

-- Total of 3 flows:

Average throughput: 76.19 Mbit/s

95th percentile per-packet one-way delay: 62.109 ms

Loss rate: 5.08%

-- Flow 1:

Average throughput: 42.98 Mbit/s

95th percentile per-packet one-way delay: 61.141 ms

Loss rate: 4.62%

-- Flow 2:

Average throughput: 42.51 Mbit/s

95th percentile per-packet one-way delay: 63.451 ms

Loss rate: 5.94%

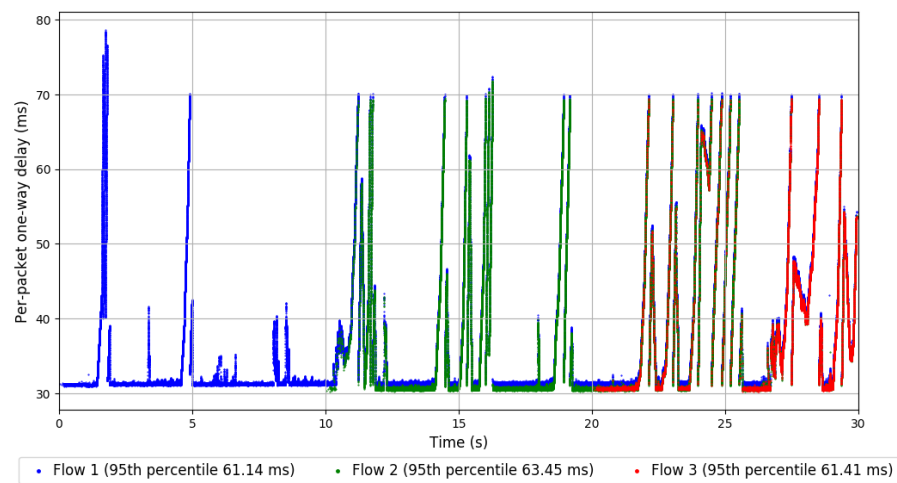
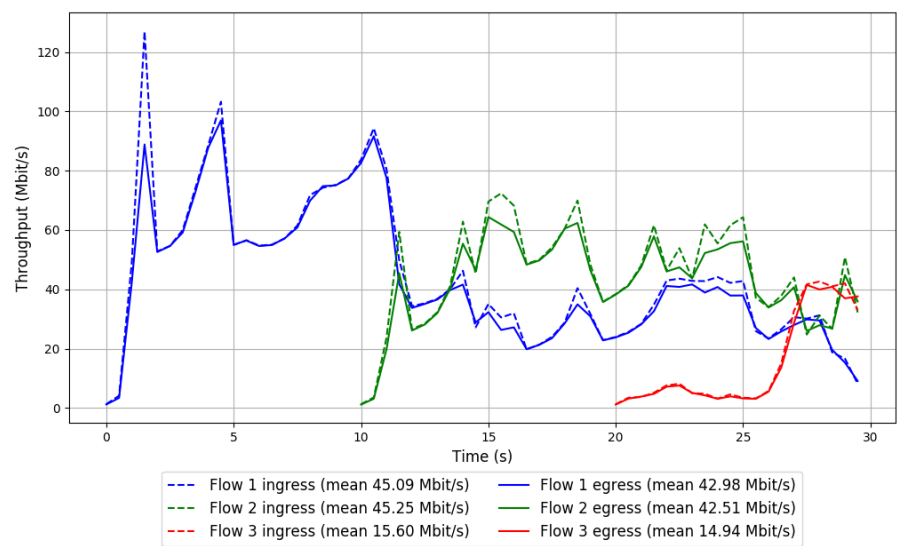
-- Flow 3:

Average throughput: 14.94 Mbit/s

95th percentile per-packet one-way delay: 61.412 ms

Loss rate: 4.05%

Run 10: Report of Vivace-loss — Data Link



Run 1: Statistics of Vivace-LTE

Start at: 2018-02-03 02:20:53

End at: 2018-02-03 02:21:23

Local clock offset: 1.053 ms

Remote clock offset: 1.214 ms

# Below is generated by plot.py at 2018-02-03 07:29:08

# Datalink statistics

-- Total of 3 flows:

Average throughput: 79.33 Mbit/s

95th percentile per-packet one-way delay: 62.884 ms

Loss rate: 2.00%

-- Flow 1:

Average throughput: 58.66 Mbit/s

95th percentile per-packet one-way delay: 62.484 ms

Loss rate: 1.83%

-- Flow 2:

Average throughput: 20.60 Mbit/s

95th percentile per-packet one-way delay: 65.772 ms

Loss rate: 2.82%

-- Flow 3:

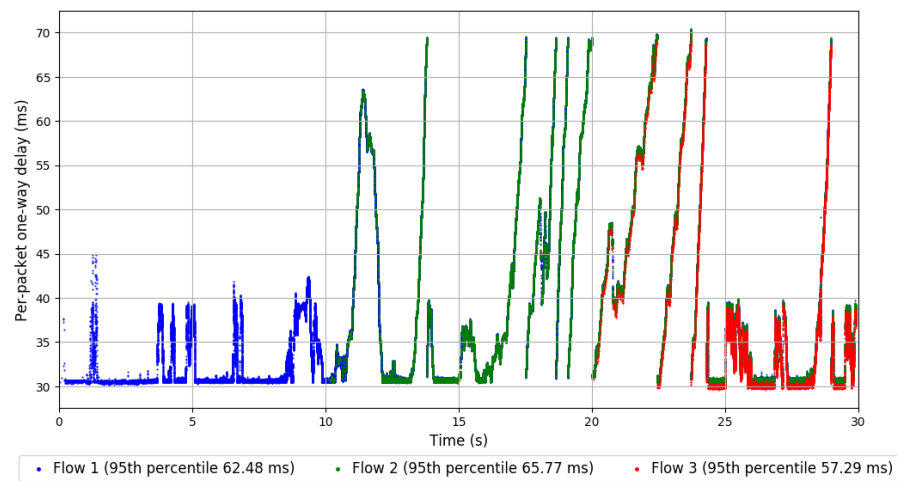
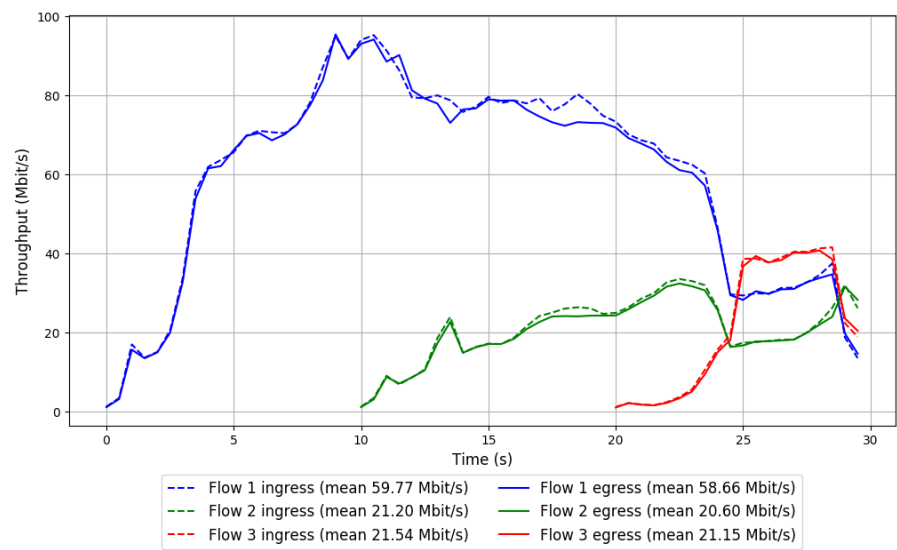
Average throughput: 21.15 Mbit/s

95th percentile per-packet one-way delay: 57.293 ms

Loss rate: 1.76%



Run 1: Report of Vivace-LTE — Data Link



Run 2: Statistics of Vivace-LTE

Start at: 2018-02-03 02:46:07

End at: 2018-02-03 02:46:37

Local clock offset: 1.176 ms

Remote clock offset: 0.96 ms

# Below is generated by plot.py at 2018-02-03 07:29:24

# Datalink statistics

-- Total of 3 flows:

Average throughput: 91.55 Mbit/s

95th percentile per-packet one-way delay: 56.254 ms

Loss rate: 1.17%

-- Flow 1:

Average throughput: 75.94 Mbit/s

95th percentile per-packet one-way delay: 55.974 ms

Loss rate: 1.22%

-- Flow 2:

Average throughput: 16.14 Mbit/s

95th percentile per-packet one-way delay: 56.549 ms

Loss rate: 0.85%

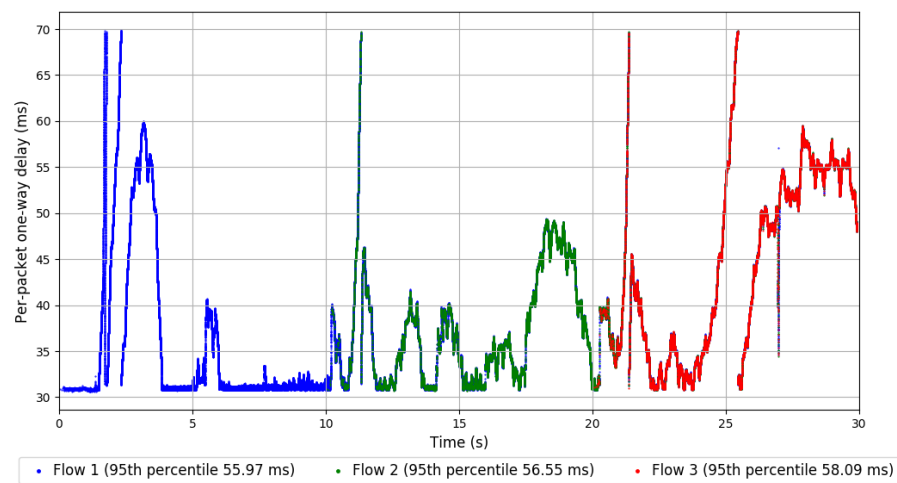
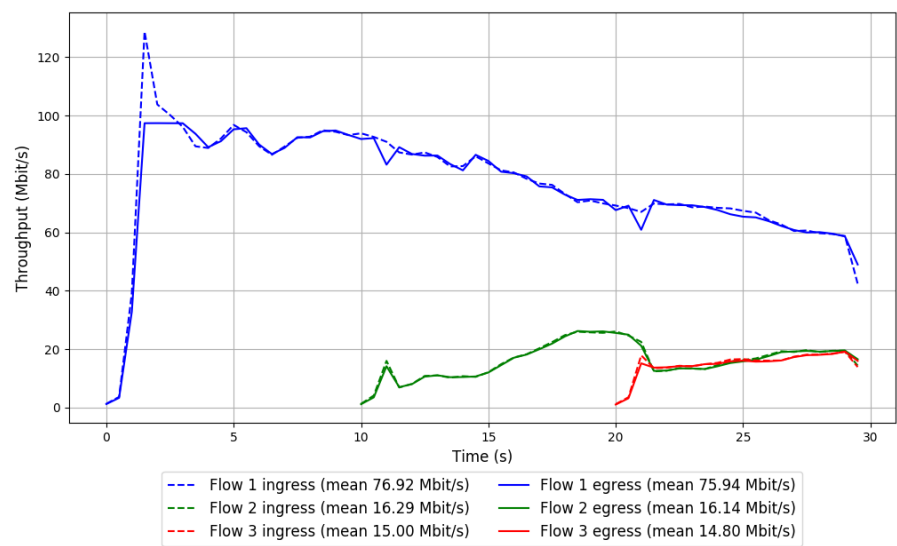
-- Flow 3:

Average throughput: 14.80 Mbit/s

95th percentile per-packet one-way delay: 58.092 ms

Loss rate: 1.15%

Run 2: Report of Vivace-LTE — Data Link

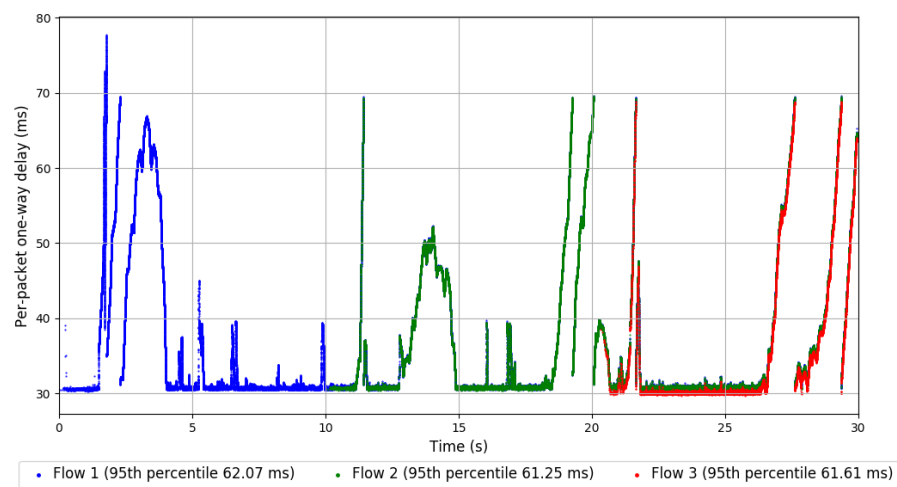
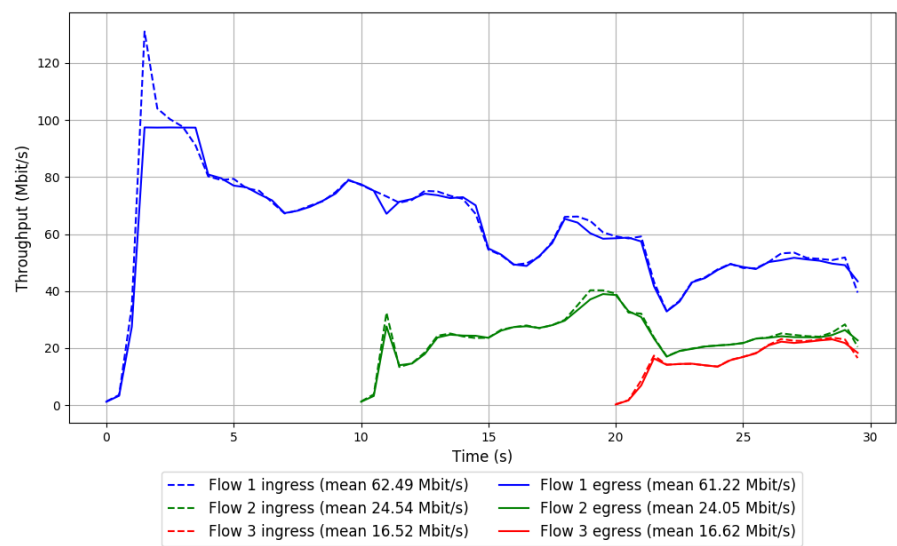


Run 3: Statistics of Vivace-LTE

Start at: 2018-02-03 03:12:02  
End at: 2018-02-03 03:12:32  
Local clock offset: 1.324 ms  
Remote clock offset: -1.007 ms

# Below is generated by plot.py at 2018-02-03 07:29:24  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 82.56 Mbit/s  
95th percentile per-packet one-way delay: 61.966 ms  
Loss rate: 1.89%  
-- Flow 1:  
Average throughput: 61.22 Mbit/s  
95th percentile per-packet one-way delay: 62.067 ms  
Loss rate: 1.92%  
-- Flow 2:  
Average throughput: 24.05 Mbit/s  
95th percentile per-packet one-way delay: 61.254 ms  
Loss rate: 1.81%  
-- Flow 3:  
Average throughput: 16.62 Mbit/s  
95th percentile per-packet one-way delay: 61.614 ms  
Loss rate: 1.77%

Run 3: Report of Vivace-LTE — Data Link

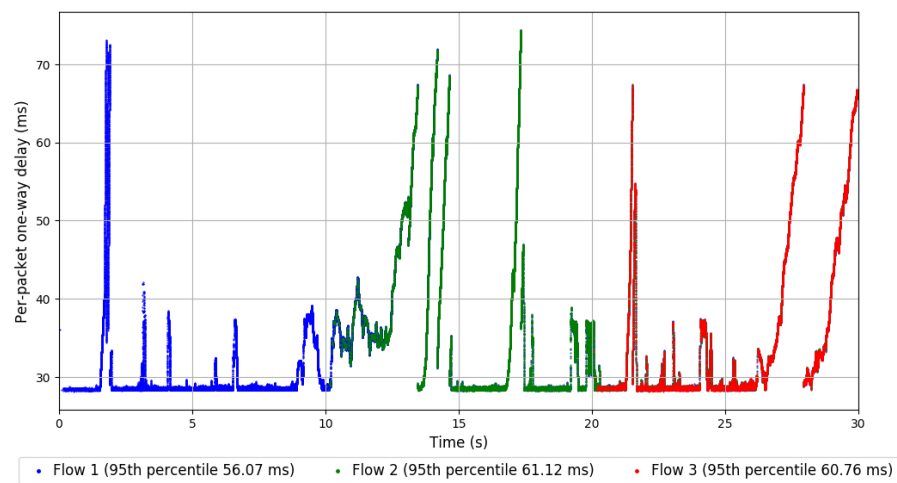
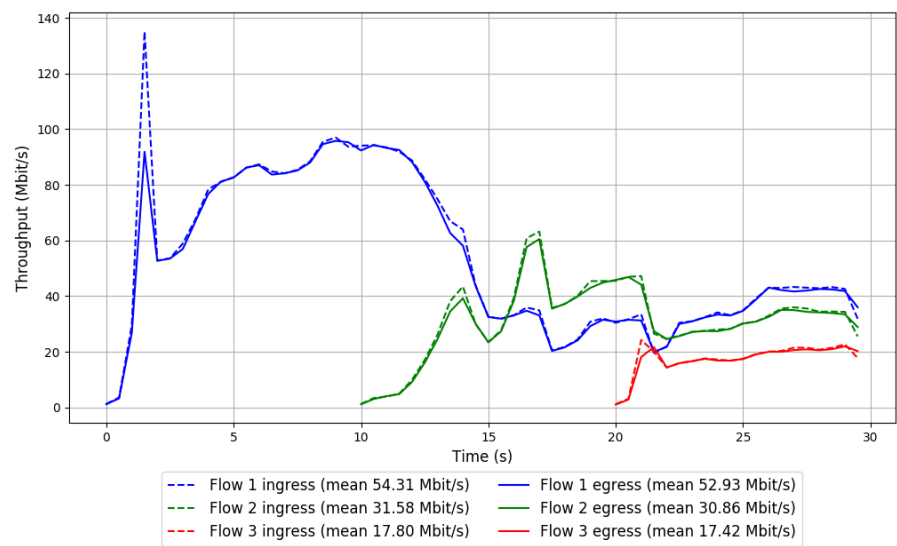


Run 4: Statistics of Vivace-LTE

Start at: 2018-02-03 03:38:15  
End at: 2018-02-03 03:38:45  
Local clock offset: 1.312 ms  
Remote clock offset: -3.982 ms

# Below is generated by plot.py at 2018-02-03 07:29:24  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 79.21 Mbit/s  
95th percentile per-packet one-way delay: 59.064 ms  
Loss rate: 2.31%  
-- Flow 1:  
Average throughput: 52.93 Mbit/s  
95th percentile per-packet one-way delay: 56.069 ms  
Loss rate: 2.43%  
-- Flow 2:  
Average throughput: 30.86 Mbit/s  
95th percentile per-packet one-way delay: 61.116 ms  
Loss rate: 2.12%  
-- Flow 3:  
Average throughput: 17.42 Mbit/s  
95th percentile per-packet one-way delay: 60.755 ms  
Loss rate: 1.80%

Run 4: Report of Vivace-LTE — Data Link



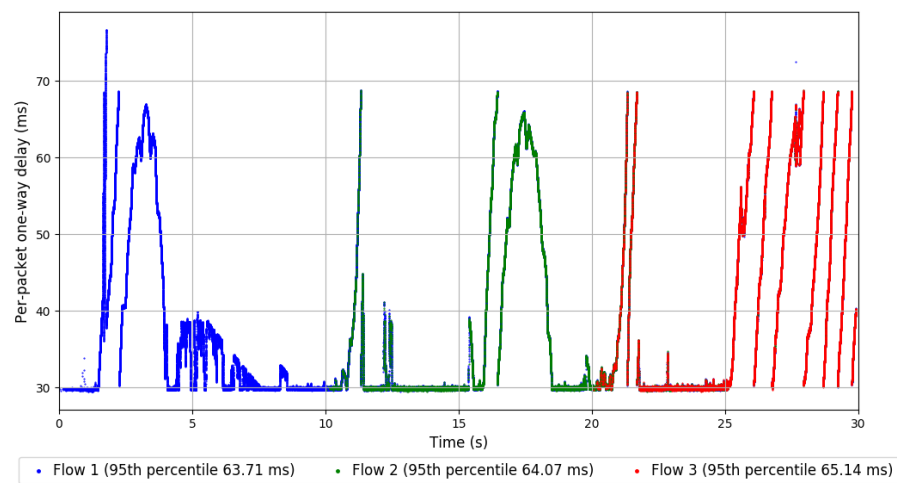
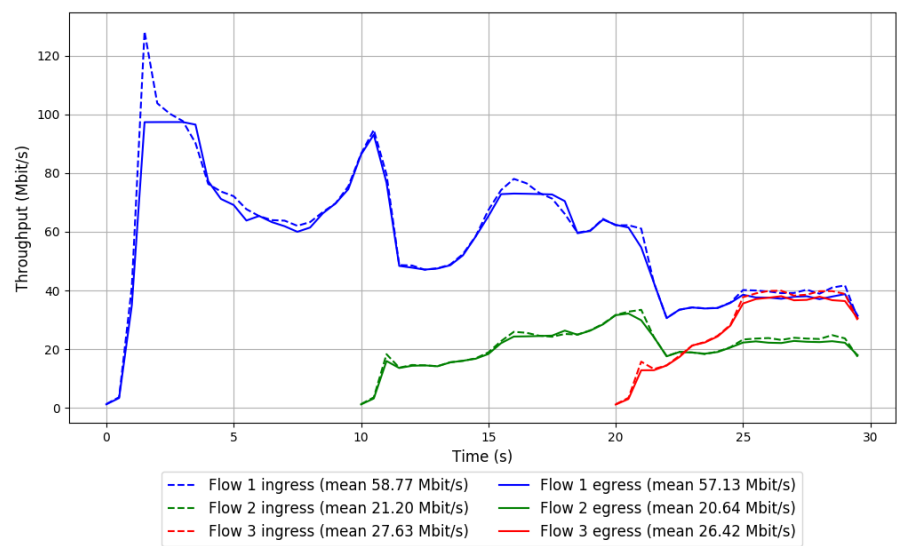
Run 5: Statistics of Vivace-LTE

Start at: 2018-02-03 04:03:26  
End at: 2018-02-03 04:03:56  
Local clock offset: 1.407 ms  
Remote clock offset: -0.975 ms

# Below is generated by plot.py at 2018-02-03 07:29:30  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 79.57 Mbit/s  
95th percentile per-packet one-way delay: 64.002 ms  
Loss rate: 2.90%  
-- Flow 1:  
Average throughput: 57.13 Mbit/s  
95th percentile per-packet one-way delay: 63.706 ms  
Loss rate: 2.76%  
-- Flow 2:  
Average throughput: 20.64 Mbit/s  
95th percentile per-packet one-way delay: 64.074 ms  
Loss rate: 2.59%  
-- Flow 3:  
Average throughput: 26.42 Mbit/s  
95th percentile per-packet one-way delay: 65.138 ms  
Loss rate: 4.28%



Run 5: Report of Vivace-LTE — Data Link



Run 6: Statistics of Vivace-LTE

Start at: 2018-02-03 04:28:39

End at: 2018-02-03 04:29:09

Local clock offset: 1.398 ms

Remote clock offset: 0.58 ms

# Below is generated by plot.py at 2018-02-03 07:29:45

# Datalink statistics

-- Total of 3 flows:

Average throughput: 76.09 Mbit/s

95th percentile per-packet one-way delay: 60.273 ms

Loss rate: 1.69%

-- Flow 1:

Average throughput: 52.74 Mbit/s

95th percentile per-packet one-way delay: 57.313 ms

Loss rate: 1.36%

-- Flow 2:

Average throughput: 23.75 Mbit/s

95th percentile per-packet one-way delay: 62.462 ms

Loss rate: 2.04%

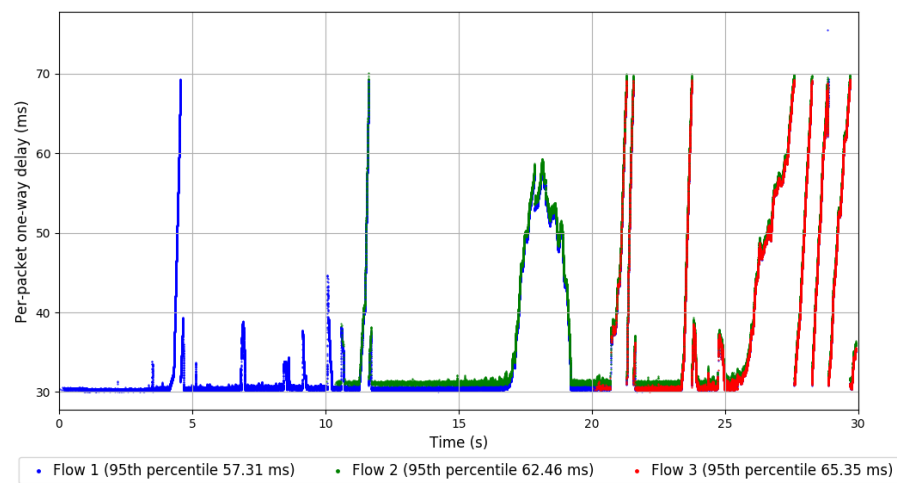
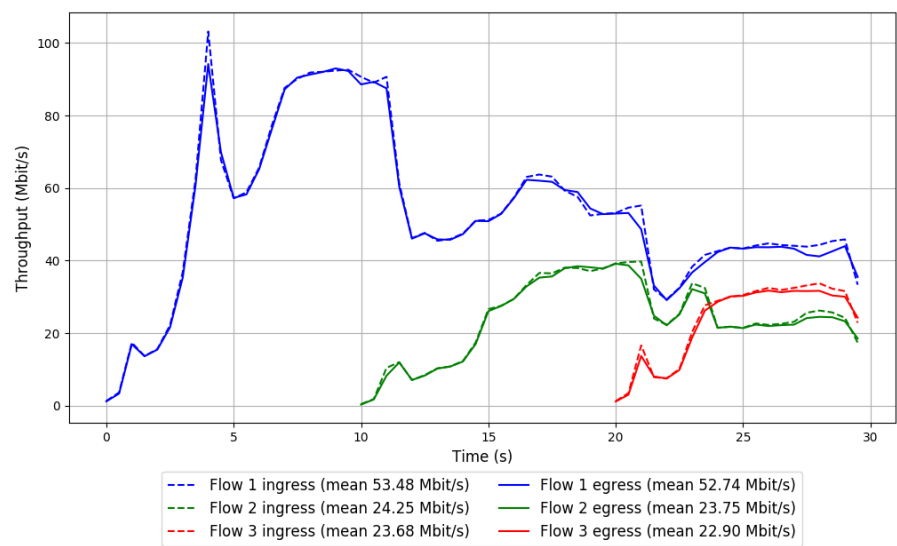
-- Flow 3:

Average throughput: 22.90 Mbit/s

95th percentile per-packet one-way delay: 65.346 ms

Loss rate: 3.26%

Run 6: Report of Vivace-LTE — Data Link



Run 7: Statistics of Vivace-LTE

Start at: 2018-02-03 04:54:45

End at: 2018-02-03 04:55:15

Local clock offset: 1.339 ms

Remote clock offset: 1.722 ms

# Below is generated by plot.py at 2018-02-03 07:29:53

# Datalink statistics

-- Total of 3 flows:

Average throughput: 88.23 Mbit/s

95th percentile per-packet one-way delay: 62.518 ms

Loss rate: 2.09%

-- Flow 1:

Average throughput: 66.54 Mbit/s

95th percentile per-packet one-way delay: 62.004 ms

Loss rate: 2.08%

-- Flow 2:

Average throughput: 16.30 Mbit/s

95th percentile per-packet one-way delay: 60.845 ms

Loss rate: 1.79%

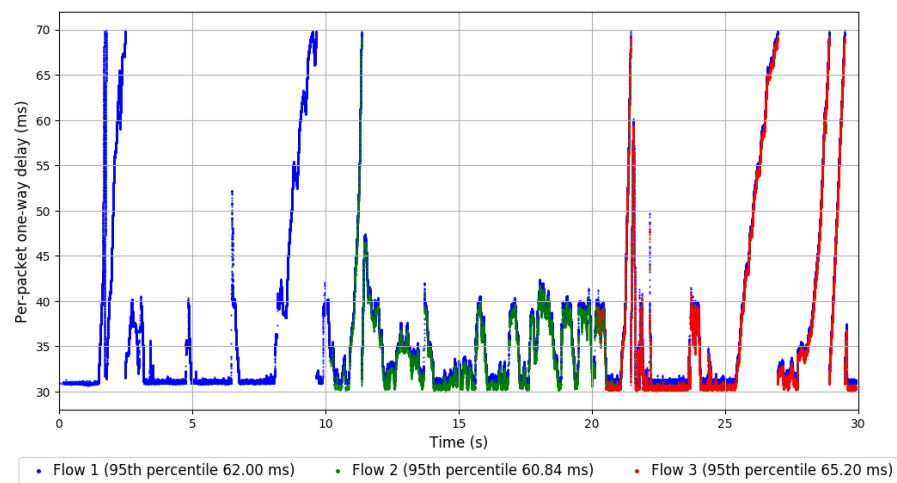
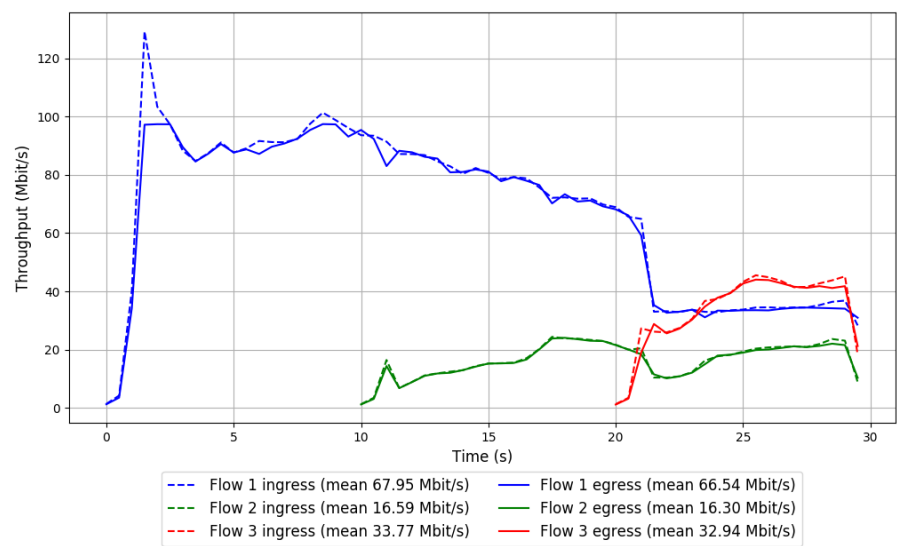
-- Flow 3:

Average throughput: 32.94 Mbit/s

95th percentile per-packet one-way delay: 65.203 ms

Loss rate: 2.48%

Run 7: Report of Vivace-LTE — Data Link



Run 8: Statistics of Vivace-LTE

Start at: 2018-02-03 05:21:14

End at: 2018-02-03 05:21:44

Local clock offset: 1.042 ms

Remote clock offset: 2.254 ms

# Below is generated by plot.py at 2018-02-03 07:29:53

# Datalink statistics

-- Total of 3 flows:

Average throughput: 79.12 Mbit/s

95th percentile per-packet one-way delay: 51.014 ms

Loss rate: 1.81%

-- Flow 1:

Average throughput: 59.45 Mbit/s

95th percentile per-packet one-way delay: 46.955 ms

Loss rate: 1.77%

-- Flow 2:

Average throughput: 18.83 Mbit/s

95th percentile per-packet one-way delay: 57.904 ms

Loss rate: 1.70%

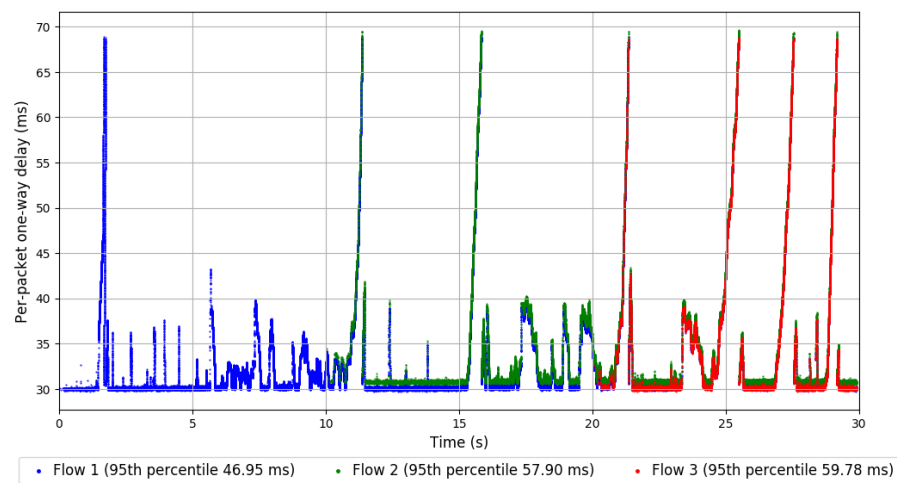
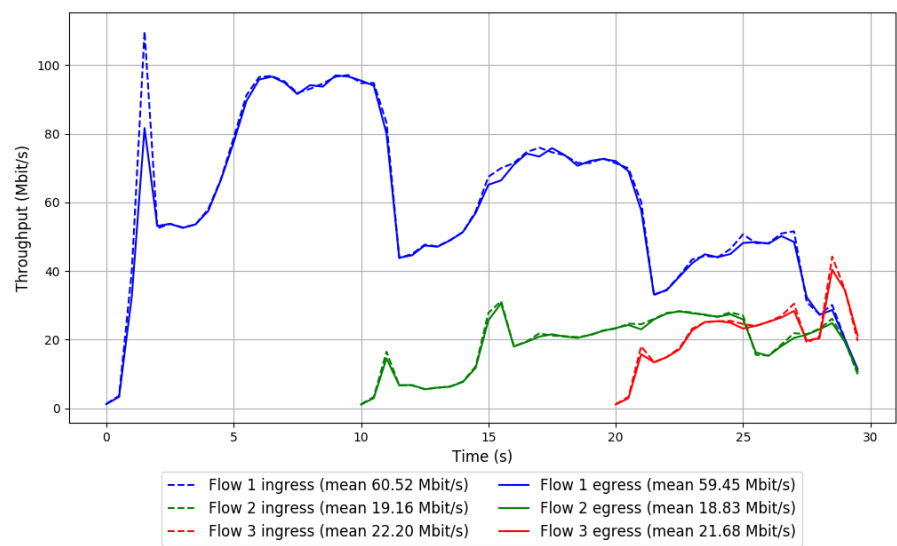
-- Flow 3:

Average throughput: 21.68 Mbit/s

95th percentile per-packet one-way delay: 59.785 ms

Loss rate: 2.38%

Run 8: Report of Vivace-LTE — Data Link



Run 9: Statistics of Vivace-LTE

Start at: 2018-02-03 05:48:10

End at: 2018-02-03 05:48:40

Local clock offset: 0.992 ms

Remote clock offset: 3.119 ms

# Below is generated by plot.py at 2018-02-03 07:29:57

# Datalink statistics

-- Total of 3 flows:

Average throughput: 78.73 Mbit/s

95th percentile per-packet one-way delay: 62.120 ms

Loss rate: 1.68%

-- Flow 1:

Average throughput: 47.13 Mbit/s

95th percentile per-packet one-way delay: 60.438 ms

Loss rate: 1.47%

-- Flow 2:

Average throughput: 32.00 Mbit/s

95th percentile per-packet one-way delay: 64.610 ms

Loss rate: 2.22%

-- Flow 3:

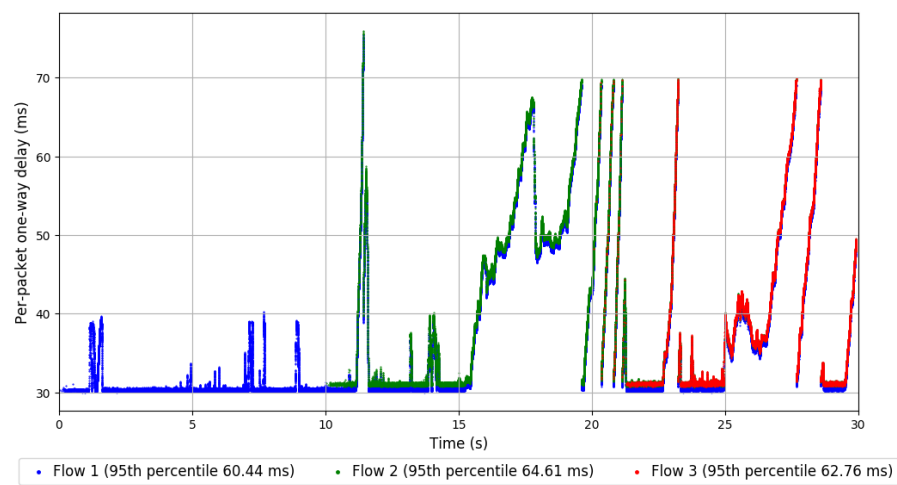
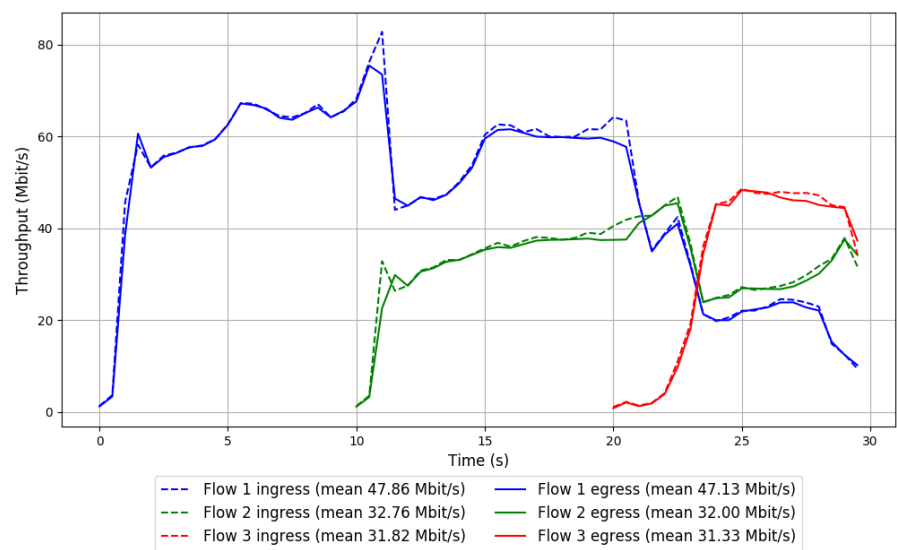
Average throughput: 31.33 Mbit/s

95th percentile per-packet one-way delay: 62.758 ms

Loss rate: 1.53%



Run 9: Report of Vivace-LTE — Data Link



Run 10: Statistics of Vivace-LTE

Start at: 2018-02-03 06:14:14  
End at: 2018-02-03 06:14:44  
Local clock offset: 0.902 ms  
Remote clock offset: -0.459 ms

# Below is generated by plot.py at 2018-02-03 07:29:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 82.57 Mbit/s  
95th percentile per-packet one-way delay: 61.256 ms  
Loss rate: 2.20%  
-- Flow 1:  
Average throughput: 56.23 Mbit/s  
95th percentile per-packet one-way delay: 60.678 ms  
Loss rate: 2.13%  
-- Flow 2:  
Average throughput: 27.88 Mbit/s  
95th percentile per-packet one-way delay: 62.036 ms  
Loss rate: 2.05%  
-- Flow 3:  
Average throughput: 23.66 Mbit/s  
95th percentile per-packet one-way delay: 60.421 ms  
Loss rate: 3.07%

Run 10: Report of Vivace-LTE — Data Link

