

Pantheon Report

Generated at 2017-12-06 01:17:45 (UTC).

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

Repeated the test of 14 congestion control schemes 10 times.

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

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

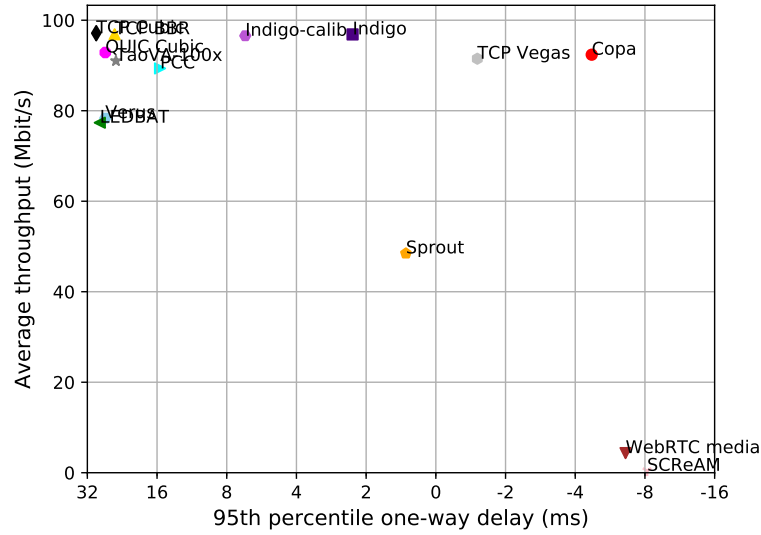
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo_fast**).

NTP offsets were measured against **nets.org.sg** and have been applied to correct the timestamps in logs.

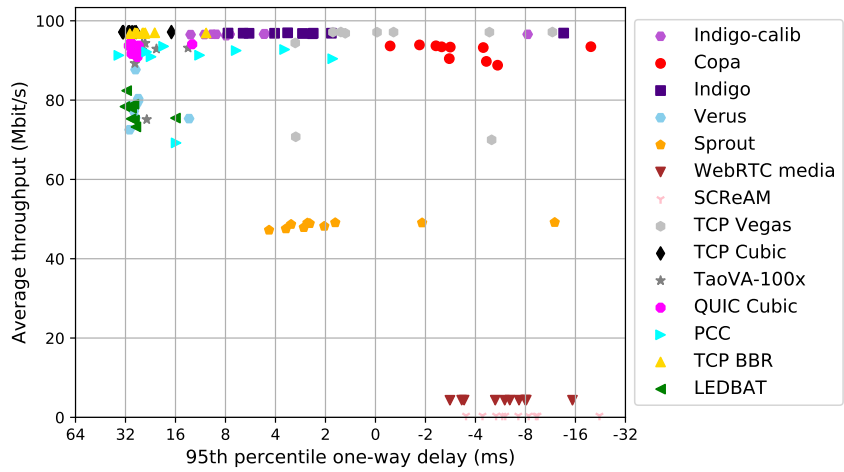
Git summary:

```
branch: indigos @ e3a57ad5ac5cfcaca0e3f983c8dd4cc3509e0262
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/genericCC @ b5b7c38e8391001927dc41c6cfa2627d03dde737
third_party/indigo @ b19f3730105f9aa95452552af924e3719b03cc55
third_party/indigo-cellular @ aee99e8eb842cb053f8c9a80e28cd256a930bbc2
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/indigo-no-cwnd @ 3e58442c04028a11d7b02456e137604633ba2d6c
third_party/indigo-no-delivery-rate @ 57caa40858b964906edff4876d5a7e5bfff666c5
third_party/indigo-no-queuing-delay @ 03455460fd1a8ffbdad86fabb936fdca204b80db
third_party/indigo-no-send-rate @ b39dfa6b2c5f19cb7cd89626cb4f5bb81f9fecda
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ baf443516dea3eeddeccaf9b916cc313273ca4f4
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ 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/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

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



test from AWS India 1 Ethernet to India Ethernet, 10 runs of 30s each per scheme
3 flows with 10s interval between flows



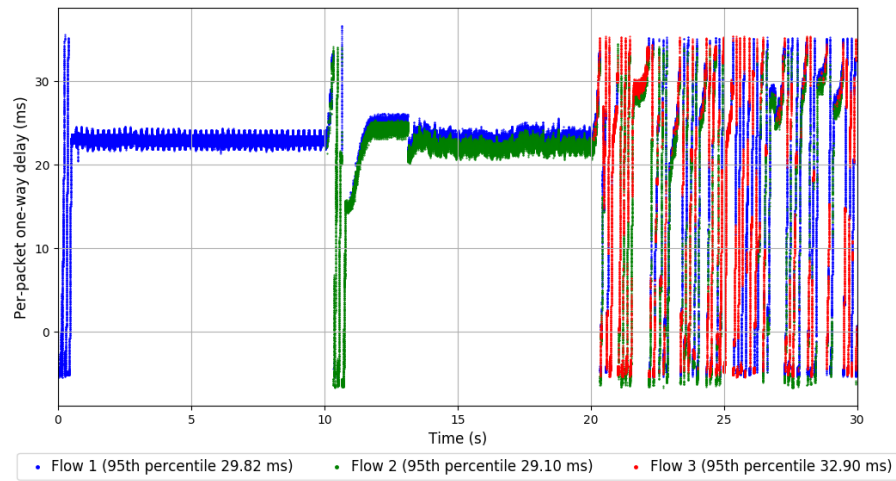
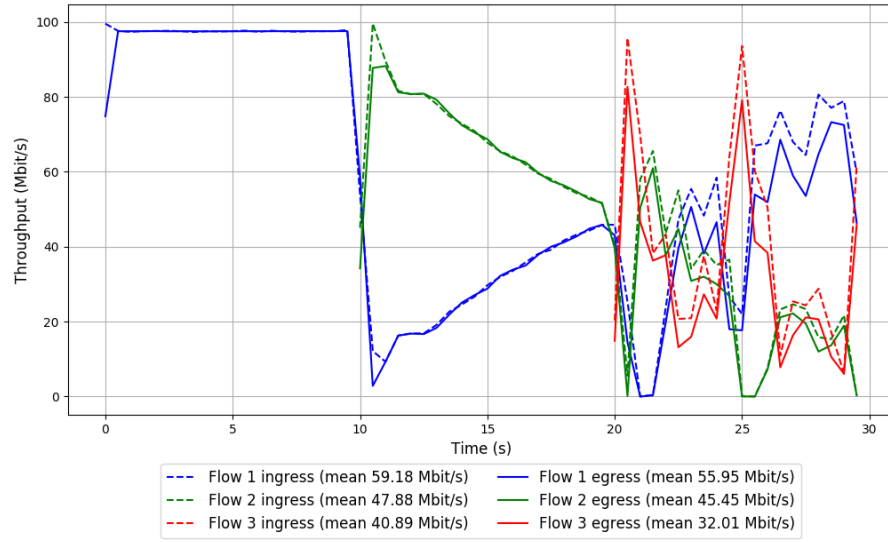
| scheme | # runs | mean avg tput (Mbit/s) | | | mean 95th-%ile delay (ms) | | | mean loss rate (%) | | |
|--------------|--------|------------------------|--------|--------|---------------------------|--------|--------|--------------------|--------|--------|
| | | flow 1 | flow 2 | flow 3 | flow 1 | flow 2 | flow 3 | flow 1 | flow 2 | flow 3 |
| TCP BBR | 10 | 49.65 | 49.13 | 41.90 | 22.11 | 24.34 | 26.32 | 2.92 | 4.50 | 8.10 |
| TCP Cubic | 10 | 68.96 | 32.99 | 18.79 | 29.12 | 29.40 | 29.76 | 0.94 | 0.81 | 1.17 |
| LEDBAT | 10 | 46.57 | 34.40 | 23.88 | 27.86 | 28.77 | 28.67 | 0.54 | 0.72 | 0.91 |
| PCC | 9 | 72.41 | 22.23 | 10.05 | 410.40 | 16.71 | 16.44 | 1.71 | 2.22 | 2.09 |
| QUIC Cubic | 9 | 63.62 | 34.58 | 19.26 | 26.64 | 26.98 | 26.74 | 1.89 | 2.51 | 2.48 |
| SCReAM | 10 | 0.21 | 0.21 | 0.22 | -8.29 | -8.41 | -8.55 | 0.00 | 0.00 | 0.00 |
| WebRTC media | 10 | 2.33 | 1.47 | 0.54 | -7.12 | -6.70 | -5.34 | 0.00 | 0.00 | 0.02 |
| Sprout | 10 | 24.38 | 24.18 | 24.25 | 0.41 | 0.89 | 0.26 | 0.00 | 0.00 | 0.00 |
| TaoVA-100x | 10 | 55.87 | 40.20 | 31.77 | 22.03 | 24.95 | 27.12 | 5.46 | 10.65 | 19.00 |
| TCP Vegas | 10 | 46.67 | 45.13 | 45.08 | 515.37 | -4.33 | -6.02 | 0.16 | 0.00 | 0.00 |
| Verus | 10 | 51.54 | 33.07 | 16.08 | 25.98 | 28.05 | 27.64 | 26.09 | 42.48 | 43.13 |
| Copa | 10 | 59.50 | 37.72 | 30.53 | -4.96 | -4.67 | -4.07 | 0.01 | 0.02 | 0.01 |
| Indigo | 10 | 60.17 | 35.92 | 39.31 | 1.26 | 3.37 | 6.72 | 0.00 | 0.00 | 0.00 |
| Indigo-calib | 10 | 60.62 | 36.34 | 36.14 | 2.67 | 10.71 | 13.86 | 0.00 | 0.00 | 0.00 |

Run 1: Statistics of TCP BBR

Start at: 2017-12-05 21:55:30
End at: 2017-12-05 21:56:00
Local clock offset: 3.356 ms
Remote clock offset: -11.732 ms

Below is generated by plot.py at 2017-12-06 00:56:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.75 Mbit/s
95th percentile per-packet one-way delay: 30.147 ms
Loss rate: 7.49%
-- Flow 1:
Average throughput: 55.95 Mbit/s
95th percentile per-packet one-way delay: 29.821 ms
Loss rate: 5.44%
-- Flow 2:
Average throughput: 45.45 Mbit/s
95th percentile per-packet one-way delay: 29.103 ms
Loss rate: 5.18%
-- Flow 3:
Average throughput: 32.01 Mbit/s
95th percentile per-packet one-way delay: 32.898 ms
Loss rate: 21.89%

Run 1: Report of TCP BBR — Data Link

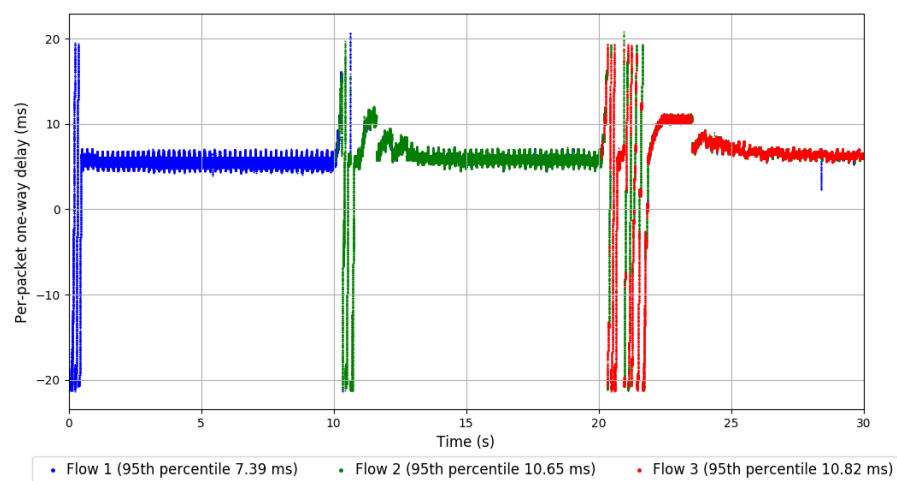
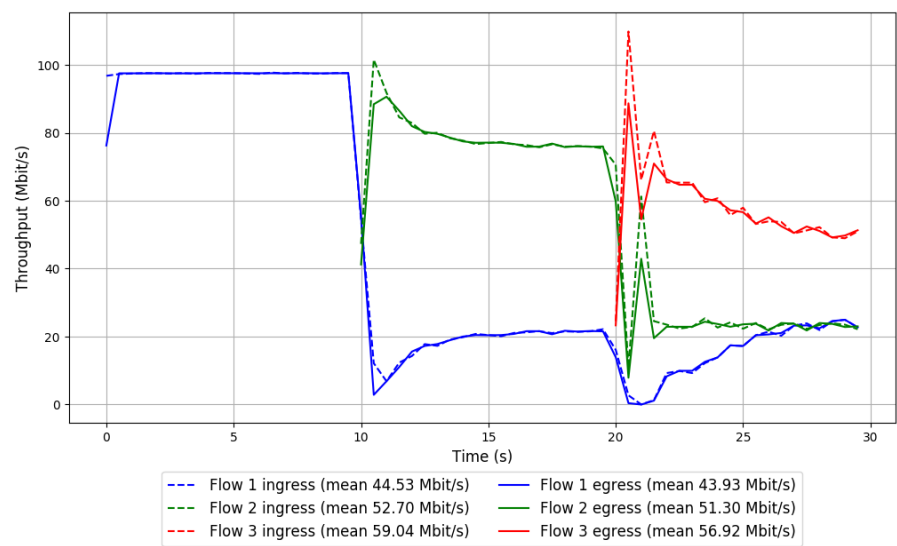


Run 2: Statistics of TCP BBR

Start at: 2017-12-05 22:12:07
End at: 2017-12-05 22:12:37
Local clock offset: 18.183 ms
Remote clock offset: -11.304 ms

Below is generated by plot.py at 2017-12-06 00:56:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.93 Mbit/s
95th percentile per-packet one-way delay: 10.463 ms
Loss rate: 2.21%
-- Flow 1:
Average throughput: 43.93 Mbit/s
95th percentile per-packet one-way delay: 7.395 ms
Loss rate: 1.26%
-- Flow 2:
Average throughput: 51.30 Mbit/s
95th percentile per-packet one-way delay: 10.648 ms
Loss rate: 2.64%
-- Flow 3:
Average throughput: 56.92 Mbit/s
95th percentile per-packet one-way delay: 10.820 ms
Loss rate: 3.60%

Run 2: Report of TCP BBR — Data Link

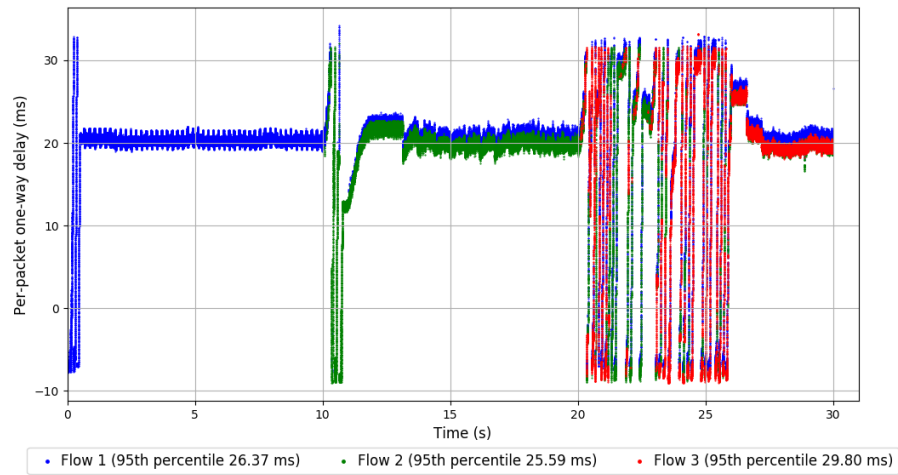
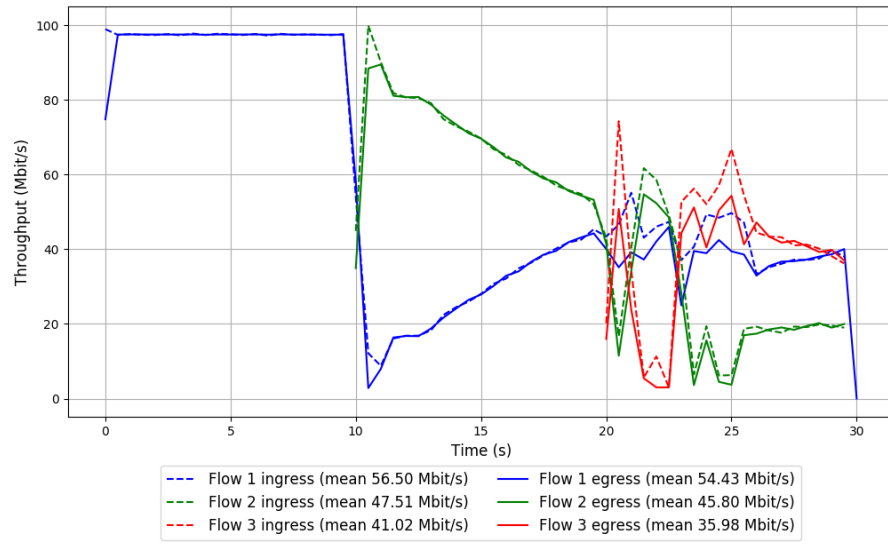


Run 3: Statistics of TCP BBR

Start at: 2017-12-05 22:28:41
End at: 2017-12-05 22:29:11
Local clock offset: 5.979 ms
Remote clock offset: -10.989 ms

Below is generated by plot.py at 2017-12-06 00:56:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.83 Mbit/s
95th percentile per-packet one-way delay: 27.095 ms
Loss rate: 4.74%
-- Flow 1:
Average throughput: 54.43 Mbit/s
95th percentile per-packet one-way delay: 26.371 ms
Loss rate: 3.56%
-- Flow 2:
Average throughput: 45.80 Mbit/s
95th percentile per-packet one-way delay: 25.591 ms
Loss rate: 3.60%
-- Flow 3:
Average throughput: 35.98 Mbit/s
95th percentile per-packet one-way delay: 29.800 ms
Loss rate: 12.30%

Run 3: Report of TCP BBR — Data Link

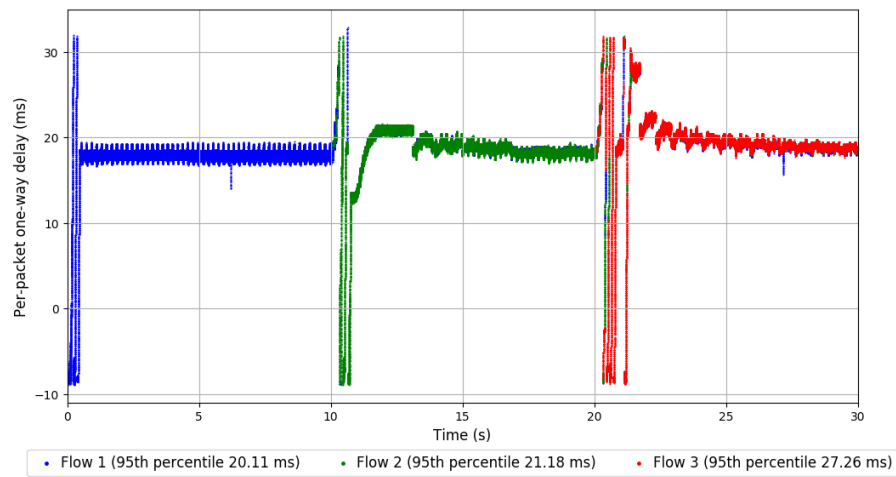
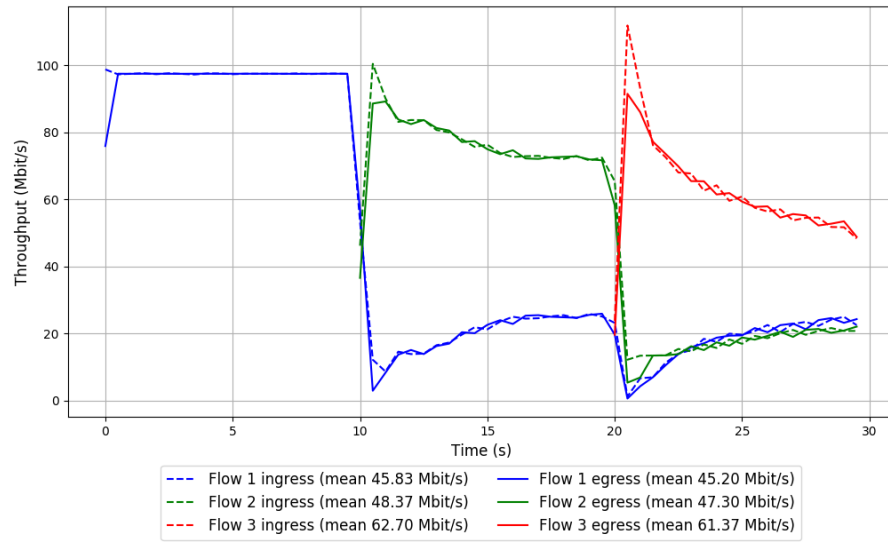


Run 4: Statistics of TCP BBR

Start at: 2017-12-05 22:45:07
End at: 2017-12-05 22:45:37
Local clock offset: 4.895 ms
Remote clock offset: -11.972 ms

Below is generated by plot.py at 2017-12-06 00:56:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.99 Mbit/s
95th percentile per-packet one-way delay: 21.343 ms
Loss rate: 1.76%
-- Flow 1:
Average throughput: 45.20 Mbit/s
95th percentile per-packet one-way delay: 20.113 ms
Loss rate: 1.30%
-- Flow 2:
Average throughput: 47.30 Mbit/s
95th percentile per-packet one-way delay: 21.178 ms
Loss rate: 2.20%
-- Flow 3:
Average throughput: 61.37 Mbit/s
95th percentile per-packet one-way delay: 27.257 ms
Loss rate: 2.12%

Run 4: Report of TCP BBR — Data Link

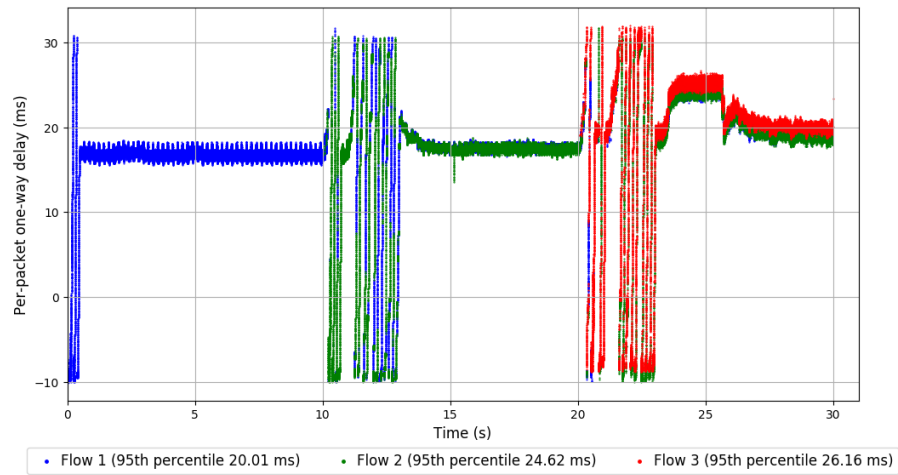
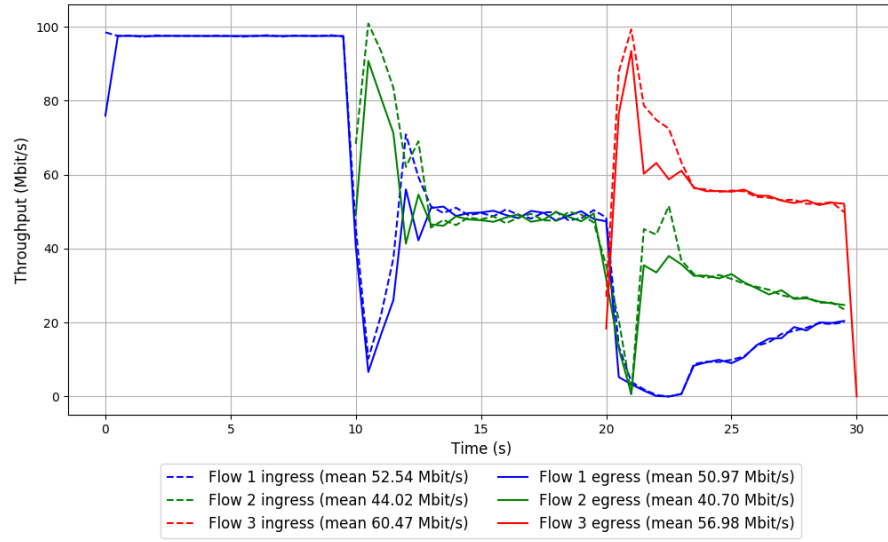


Run 5: Statistics of TCP BBR

Start at: 2017-12-05 23:01:41
End at: 2017-12-05 23:02:11
Local clock offset: 6.13 ms
Remote clock offset: -12.028 ms

Below is generated by plot.py at 2017-12-06 00:56:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.94 Mbit/s
95th percentile per-packet one-way delay: 24.975 ms
Loss rate: 4.79%
-- Flow 1:
Average throughput: 50.97 Mbit/s
95th percentile per-packet one-way delay: 20.013 ms
Loss rate: 2.89%
-- Flow 2:
Average throughput: 40.70 Mbit/s
95th percentile per-packet one-way delay: 24.620 ms
Loss rate: 7.54%
-- Flow 3:
Average throughput: 56.98 Mbit/s
95th percentile per-packet one-way delay: 26.155 ms
Loss rate: 5.74%

Run 5: Report of TCP BBR — Data Link

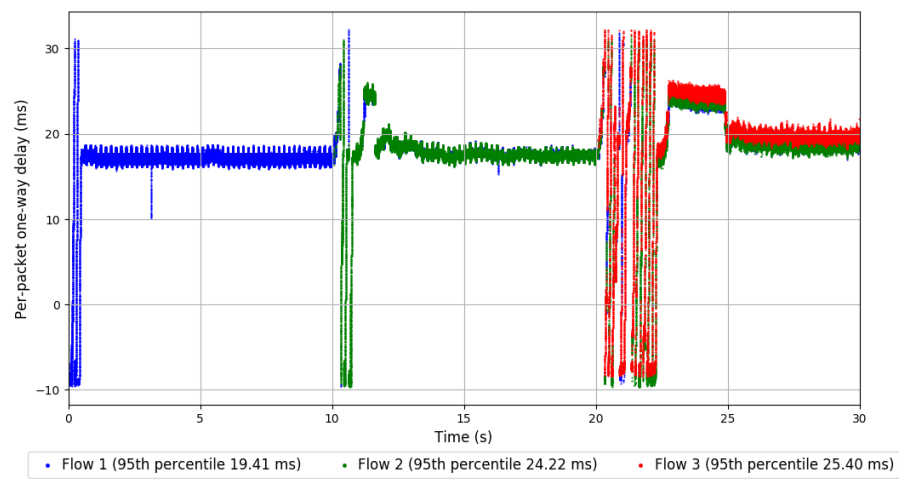
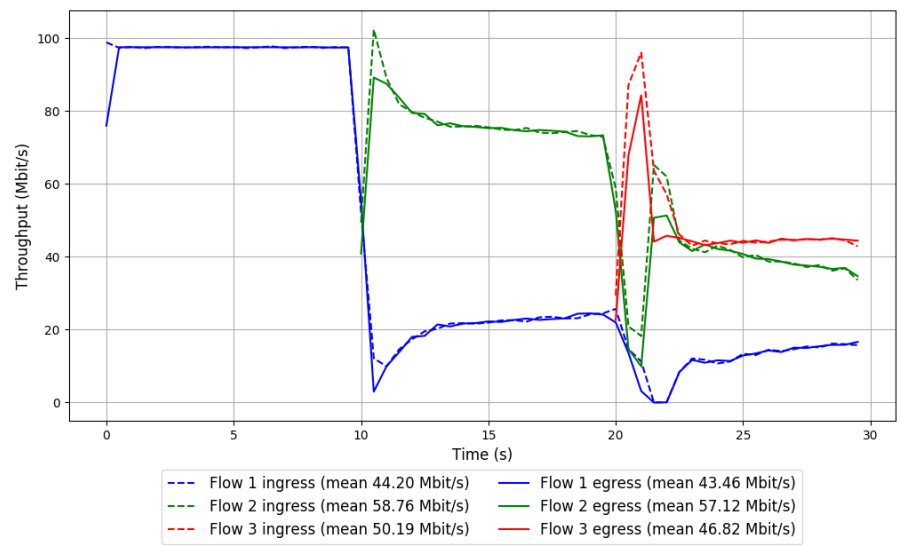


Run 6: Statistics of TCP BBR

Start at: 2017-12-05 23:18:06
End at: 2017-12-05 23:18:36
Local clock offset: 6.28 ms
Remote clock offset: -11.627 ms

Below is generated by plot.py at 2017-12-06 00:56:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.97 Mbit/s
95th percentile per-packet one-way delay: 24.351 ms
Loss rate: 2.91%
-- Flow 1:
Average throughput: 43.46 Mbit/s
95th percentile per-packet one-way delay: 19.408 ms
Loss rate: 1.59%
-- Flow 2:
Average throughput: 57.12 Mbit/s
95th percentile per-packet one-way delay: 24.221 ms
Loss rate: 2.80%
-- Flow 3:
Average throughput: 46.82 Mbit/s
95th percentile per-packet one-way delay: 25.404 ms
Loss rate: 6.71%

Run 6: Report of TCP BBR — Data Link

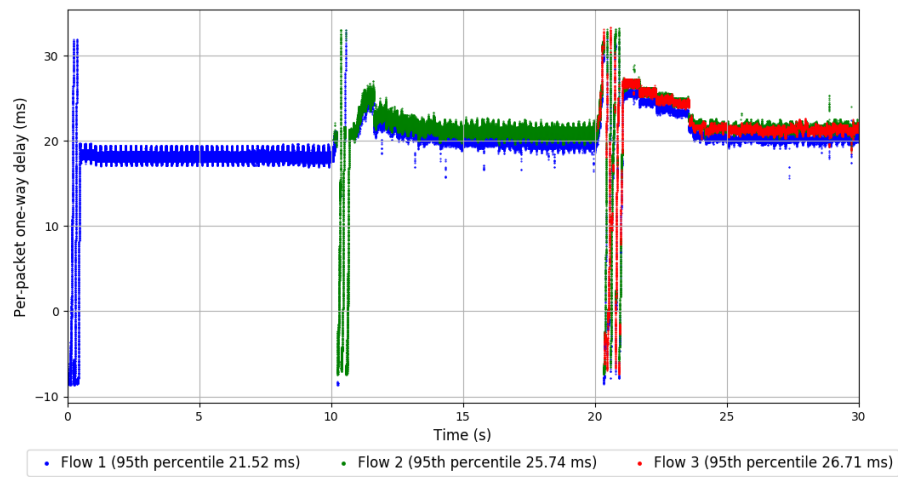
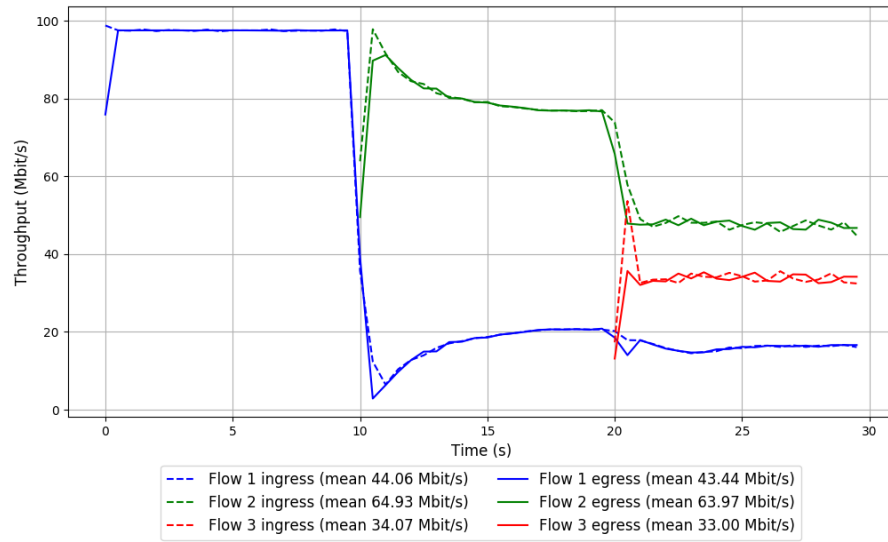


Run 7: Statistics of TCP BBR

Start at: 2017-12-05 23:34:26
End at: 2017-12-05 23:34:56
Local clock offset: 4.981 ms
Remote clock offset: -11.408 ms

Below is generated by plot.py at 2017-12-06 00:56:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.93 Mbit/s
95th percentile per-packet one-way delay: 25.295 ms
Loss rate: 1.58%
-- Flow 1:
Average throughput: 43.44 Mbit/s
95th percentile per-packet one-way delay: 21.524 ms
Loss rate: 1.30%
-- Flow 2:
Average throughput: 63.97 Mbit/s
95th percentile per-packet one-way delay: 25.737 ms
Loss rate: 1.47%
-- Flow 3:
Average throughput: 33.00 Mbit/s
95th percentile per-packet one-way delay: 26.708 ms
Loss rate: 3.12%

Run 7: Report of TCP BBR — Data Link

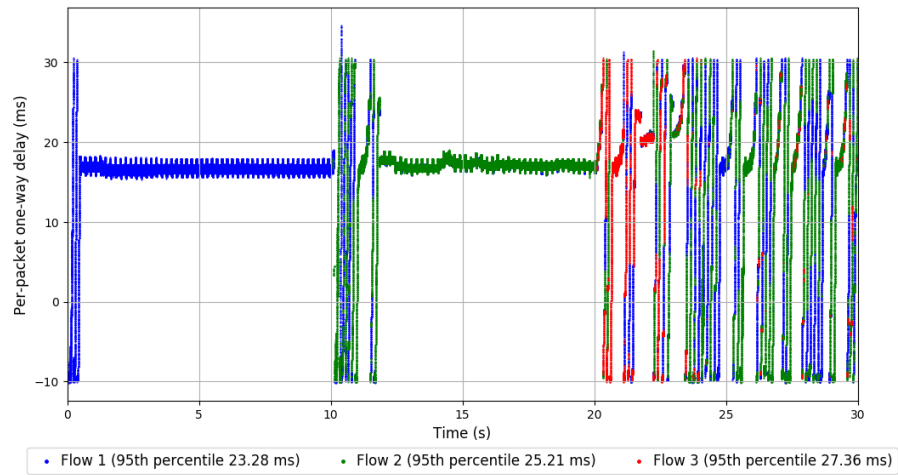
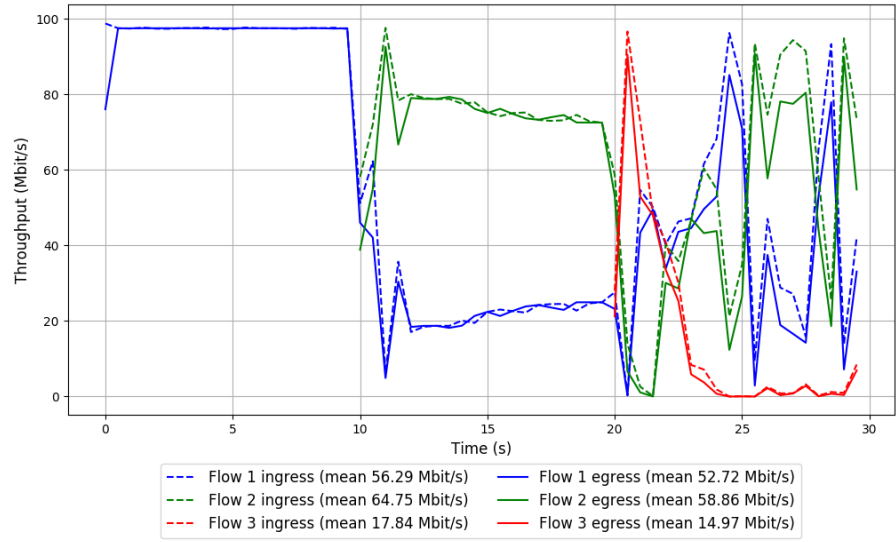


Run 8: Statistics of TCP BBR

Start at: 2017-12-05 23:50:58
End at: 2017-12-05 23:51:28
Local clock offset: 4.711 ms
Remote clock offset: -12.728 ms

Below is generated by plot.py at 2017-12-06 00:56:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.81 Mbit/s
95th percentile per-packet one-way delay: 24.488 ms
Loss rate: 8.01%
-- Flow 1:
Average throughput: 52.72 Mbit/s
95th percentile per-packet one-way delay: 23.280 ms
Loss rate: 6.31%
-- Flow 2:
Average throughput: 58.86 Mbit/s
95th percentile per-packet one-way delay: 25.210 ms
Loss rate: 9.13%
-- Flow 3:
Average throughput: 14.97 Mbit/s
95th percentile per-packet one-way delay: 27.364 ms
Loss rate: 16.09%

Run 8: Report of TCP BBR — Data Link

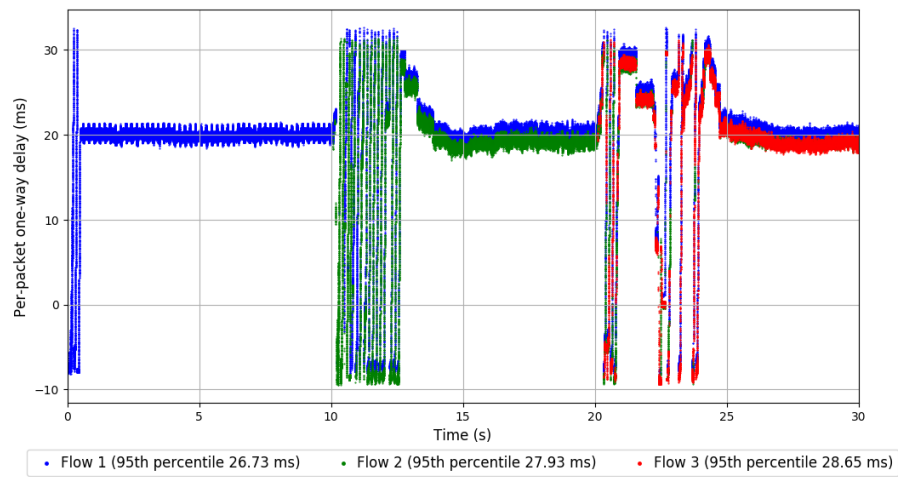
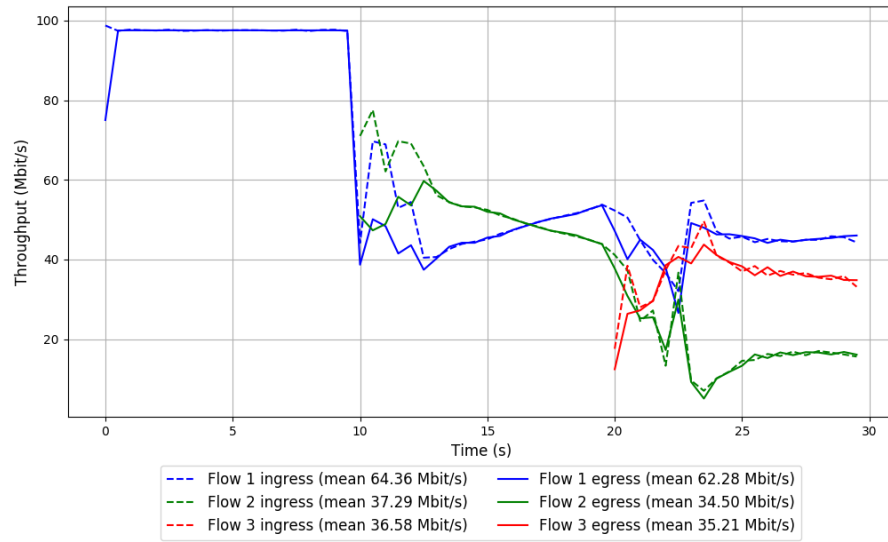


Run 9: Statistics of TCP BBR

Start at: 2017-12-06 00:07:22
End at: 2017-12-06 00:07:52
Local clock offset: 5.716 ms
Remote clock offset: -12.587 ms

Below is generated by plot.py at 2017-12-06 00:58:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.91 Mbit/s
95th percentile per-packet one-way delay: 27.688 ms
Loss rate: 4.28%
-- Flow 1:
Average throughput: 62.28 Mbit/s
95th percentile per-packet one-way delay: 26.728 ms
Loss rate: 3.14%
-- Flow 2:
Average throughput: 34.50 Mbit/s
95th percentile per-packet one-way delay: 27.928 ms
Loss rate: 7.48%
-- Flow 3:
Average throughput: 35.21 Mbit/s
95th percentile per-packet one-way delay: 28.653 ms
Loss rate: 3.75%

Run 9: Report of TCP BBR — Data Link

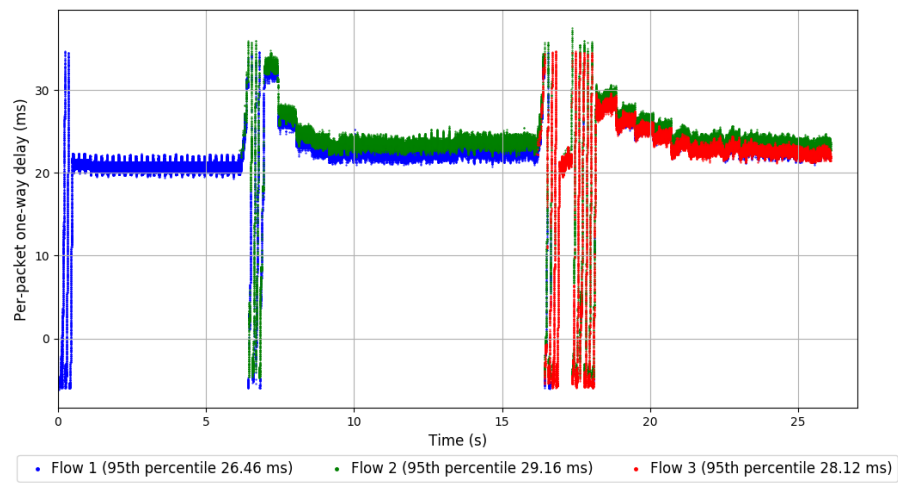
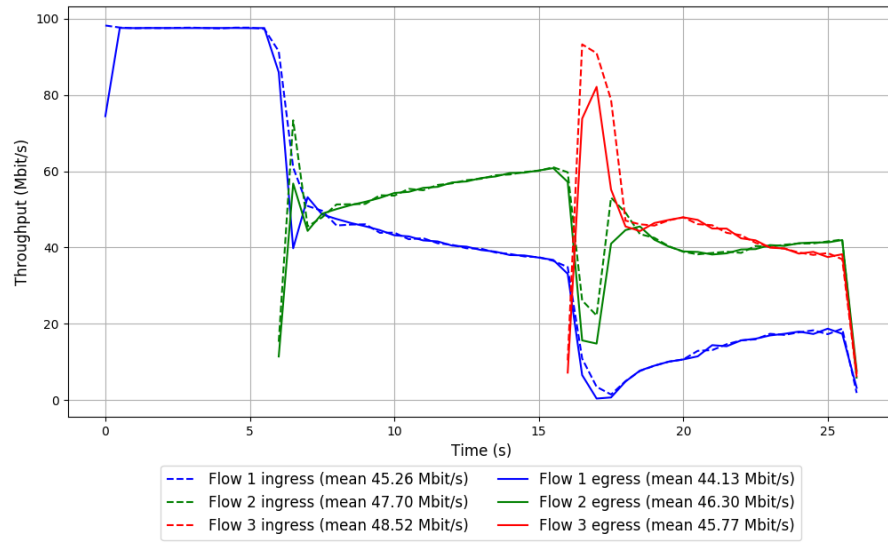


Run 10: Statistics of TCP BBR

Start at: 2017-12-06 00:23:54
End at: 2017-12-06 00:24:24
Local clock offset: 1.145 ms
Remote clock offset: -13.858 ms

Below is generated by plot.py at 2017-12-06 00:58:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.96 Mbit/s
95th percentile per-packet one-way delay: 28.129 ms
Loss rate: 3.20%
-- Flow 1:
Average throughput: 44.13 Mbit/s
95th percentile per-packet one-way delay: 26.460 ms
Loss rate: 2.41%
-- Flow 2:
Average throughput: 46.30 Mbit/s
95th percentile per-packet one-way delay: 29.164 ms
Loss rate: 2.94%
-- Flow 3:
Average throughput: 45.77 Mbit/s
95th percentile per-packet one-way delay: 28.125 ms
Loss rate: 5.66%

Run 10: Report of TCP BBR — Data Link

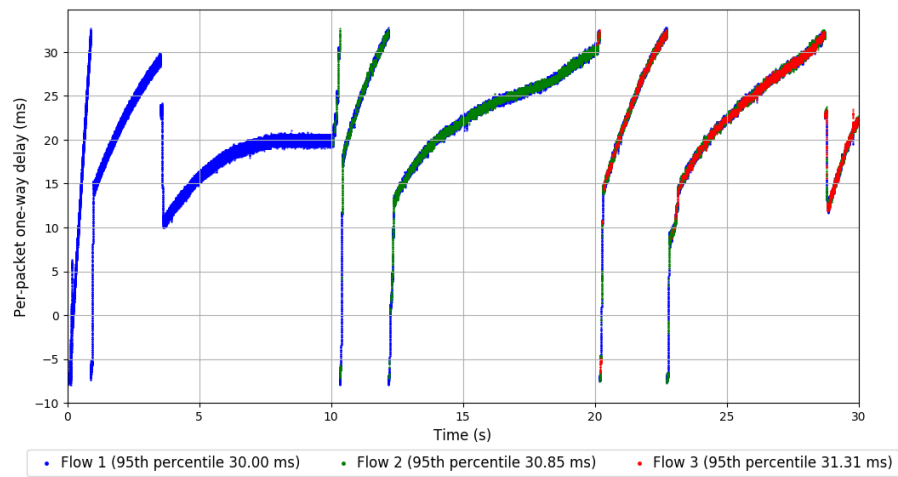
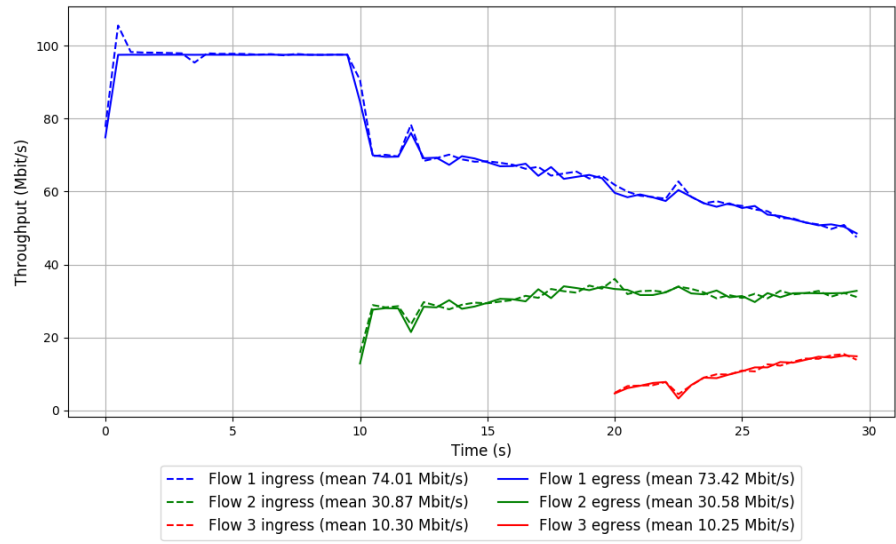


Run 1: Statistics of TCP Cubic

Start at: 2017-12-05 21:54:18
End at: 2017-12-05 21:54:48
Local clock offset: 5.532 ms
Remote clock offset: -12.142 ms

Below is generated by plot.py at 2017-12-06 00:58:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.14 Mbit/s
95th percentile per-packet one-way delay: 30.315 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 73.42 Mbit/s
95th percentile per-packet one-way delay: 29.997 ms
Loss rate: 0.70%
-- Flow 2:
Average throughput: 30.58 Mbit/s
95th percentile per-packet one-way delay: 30.852 ms
Loss rate: 0.90%
-- Flow 3:
Average throughput: 10.25 Mbit/s
95th percentile per-packet one-way delay: 31.312 ms
Loss rate: 0.63%

Run 1: Report of TCP Cubic — Data Link

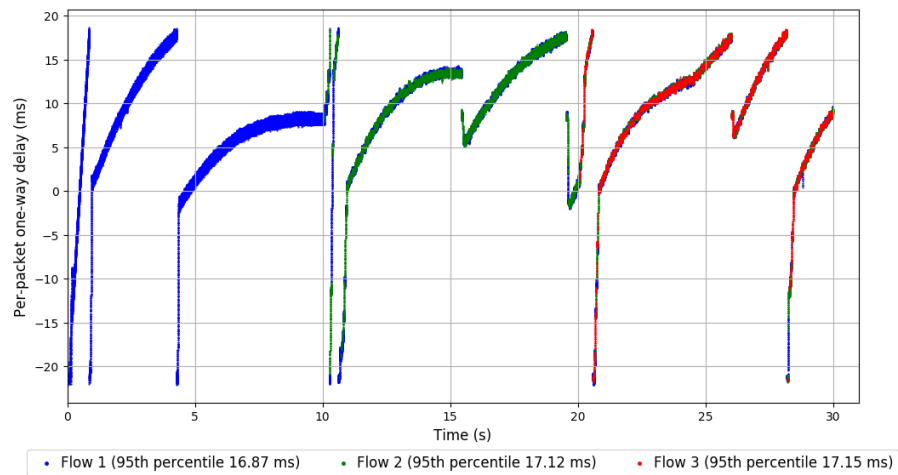
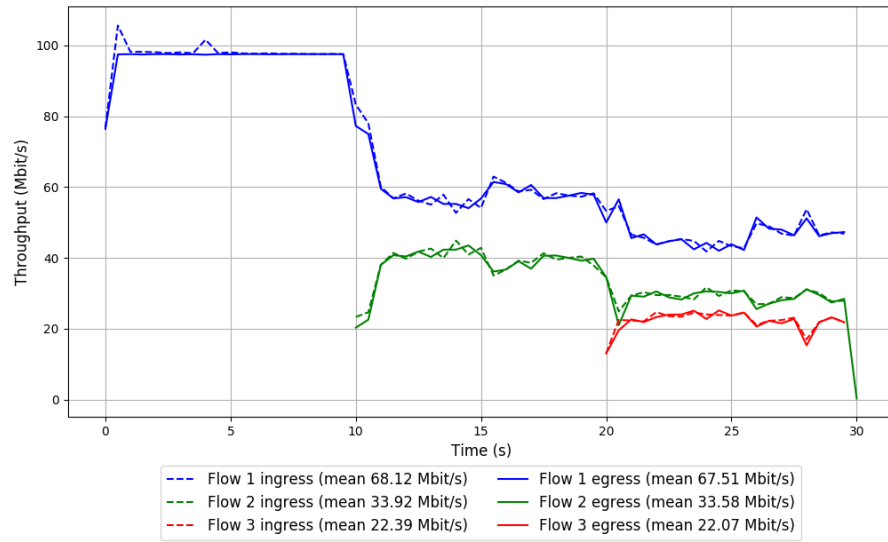


Run 2: Statistics of TCP Cubic

Start at: 2017-12-05 22:10:56
End at: 2017-12-05 22:11:26
Local clock offset: 18.349 ms
Remote clock offset: -11.995 ms

Below is generated by plot.py at 2017-12-06 00:58:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.16 Mbit/s
95th percentile per-packet one-way delay: 16.935 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 67.51 Mbit/s
95th percentile per-packet one-way delay: 16.871 ms
Loss rate: 0.79%
-- Flow 2:
Average throughput: 33.58 Mbit/s
95th percentile per-packet one-way delay: 17.118 ms
Loss rate: 1.00%
-- Flow 3:
Average throughput: 22.07 Mbit/s
95th percentile per-packet one-way delay: 17.148 ms
Loss rate: 1.35%

Run 2: Report of TCP Cubic — Data Link

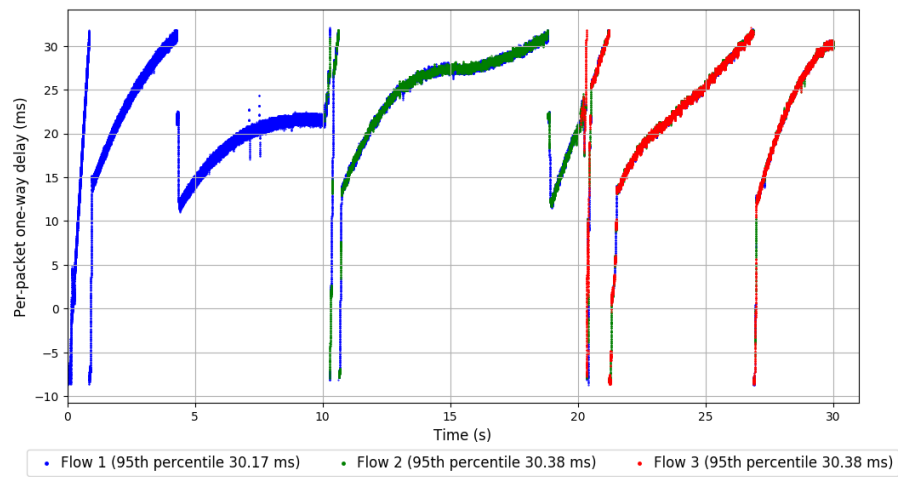
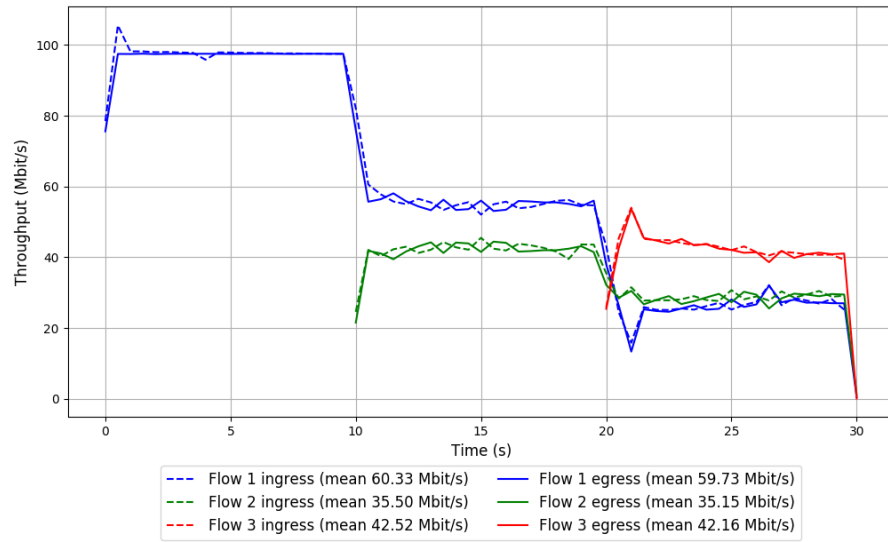


Run 3: Statistics of TCP Cubic

Start at: 2017-12-05 22:27:29
End at: 2017-12-05 22:27:59
Local clock offset: 4.706 ms
Remote clock offset: -11.927 ms

Below is generated by plot.py at 2017-12-06 00:58:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.10 Mbit/s
95th percentile per-packet one-way delay: 30.327 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 59.73 Mbit/s
95th percentile per-packet one-way delay: 30.166 ms
Loss rate: 0.86%
-- Flow 2:
Average throughput: 35.15 Mbit/s
95th percentile per-packet one-way delay: 30.384 ms
Loss rate: 0.95%
-- Flow 3:
Average throughput: 42.16 Mbit/s
95th percentile per-packet one-way delay: 30.376 ms
Loss rate: 0.75%

Run 3: Report of TCP Cubic — Data Link

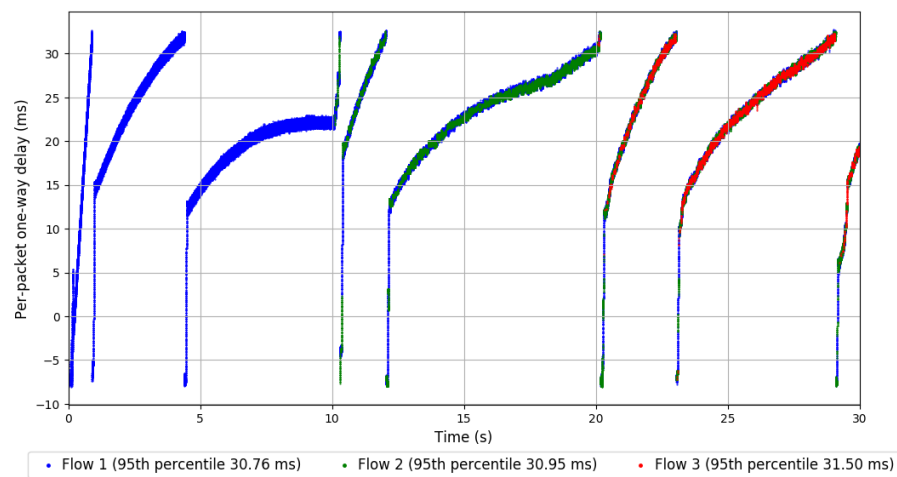
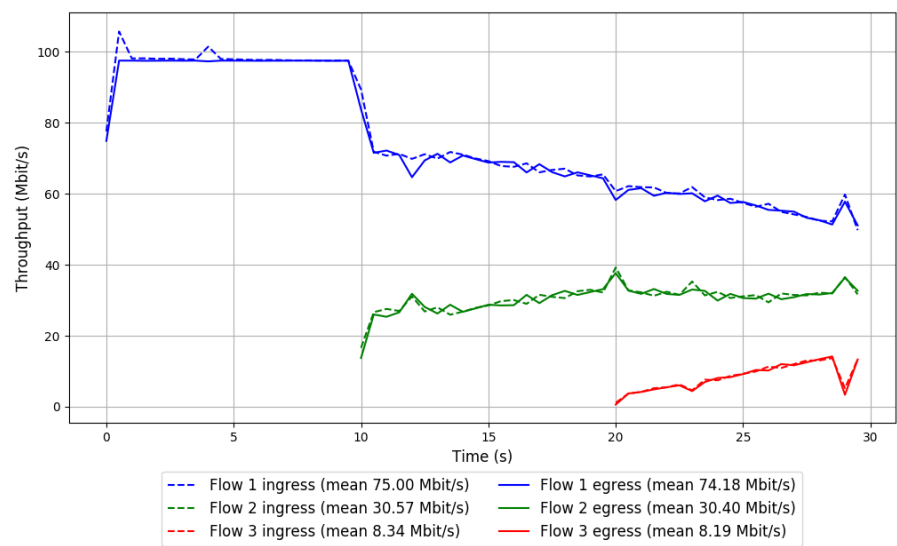


Run 4: Statistics of TCP Cubic

Start at: 2017-12-05 22:43:56
End at: 2017-12-05 22:44:26
Local clock offset: 5.301 ms
Remote clock offset: -11.976 ms

Below is generated by plot.py at 2017-12-06 00:58:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.11 Mbit/s
95th percentile per-packet one-way delay: 30.795 ms
Loss rate: 0.95%
-- Flow 1:
Average throughput: 74.18 Mbit/s
95th percentile per-packet one-way delay: 30.763 ms
Loss rate: 1.01%
-- Flow 2:
Average throughput: 30.40 Mbit/s
95th percentile per-packet one-way delay: 30.950 ms
Loss rate: 0.59%
-- Flow 3:
Average throughput: 8.19 Mbit/s
95th percentile per-packet one-way delay: 31.495 ms
Loss rate: 1.89%

Run 4: Report of TCP Cubic — Data Link

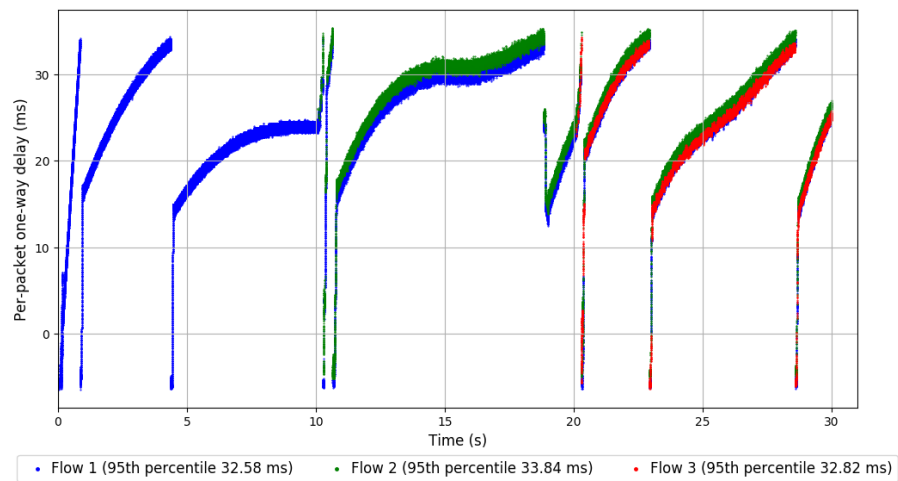
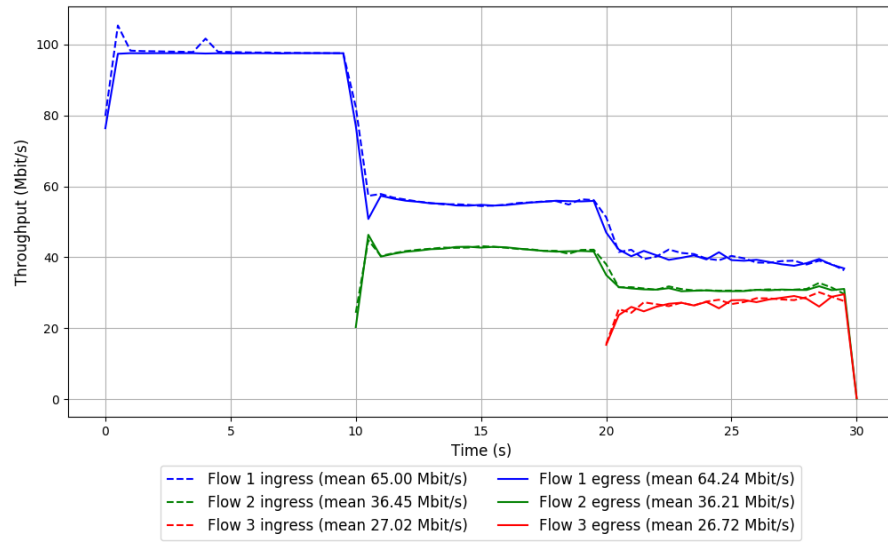


Run 5: Statistics of TCP Cubic

Start at: 2017-12-05 23:00:28
End at: 2017-12-05 23:00:58
Local clock offset: 3.228 ms
Remote clock offset: -11.372 ms

Below is generated by plot.py at 2017-12-06 00:58:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.15 Mbit/s
95th percentile per-packet one-way delay: 33.013 ms
Loss rate: 0.96%
-- Flow 1:
Average throughput: 64.24 Mbit/s
95th percentile per-packet one-way delay: 32.578 ms
Loss rate: 1.06%
-- Flow 2:
Average throughput: 36.21 Mbit/s
95th percentile per-packet one-way delay: 33.841 ms
Loss rate: 0.66%
-- Flow 3:
Average throughput: 26.72 Mbit/s
95th percentile per-packet one-way delay: 32.816 ms
Loss rate: 1.07%

Run 5: Report of TCP Cubic — Data Link

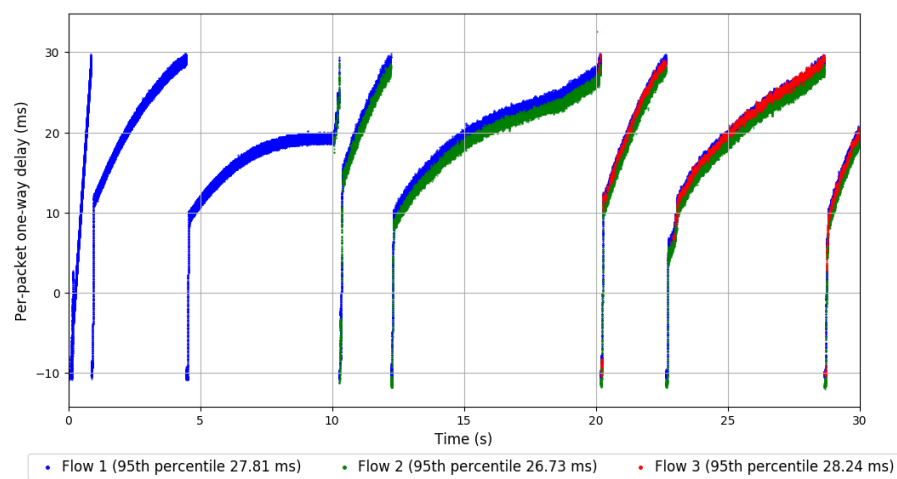
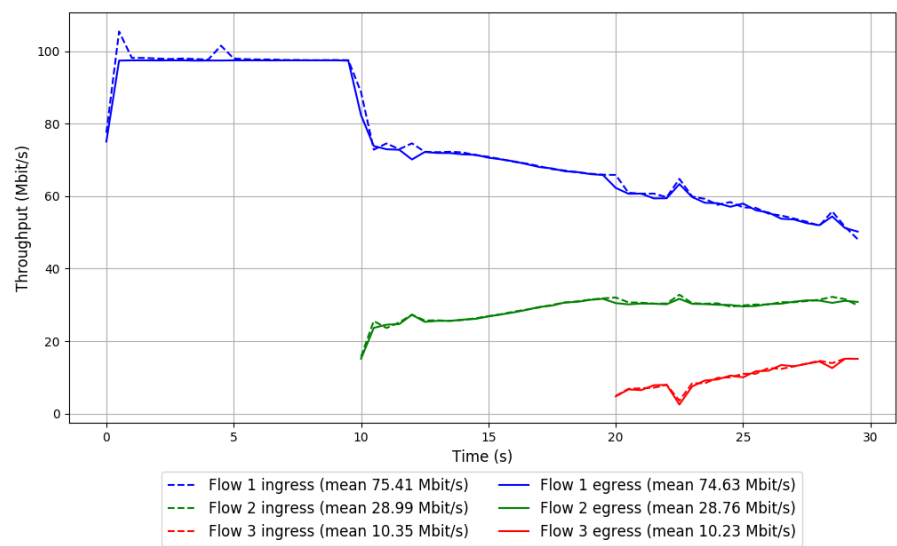


Run 6: Statistics of TCP Cubic

Start at: 2017-12-05 23:16:56
End at: 2017-12-05 23:17:26
Local clock offset: 6.909 ms
Remote clock offset: -13.426 ms

Below is generated by plot.py at 2017-12-06 00:58:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.15 Mbit/s
95th percentile per-packet one-way delay: 27.650 ms
Loss rate: 0.93%
-- Flow 1:
Average throughput: 74.63 Mbit/s
95th percentile per-packet one-way delay: 27.809 ms
Loss rate: 0.94%
-- Flow 2:
Average throughput: 28.76 Mbit/s
95th percentile per-packet one-way delay: 26.733 ms
Loss rate: 0.81%
-- Flow 3:
Average throughput: 10.23 Mbit/s
95th percentile per-packet one-way delay: 28.243 ms
Loss rate: 1.35%

Run 6: Report of TCP Cubic — Data Link

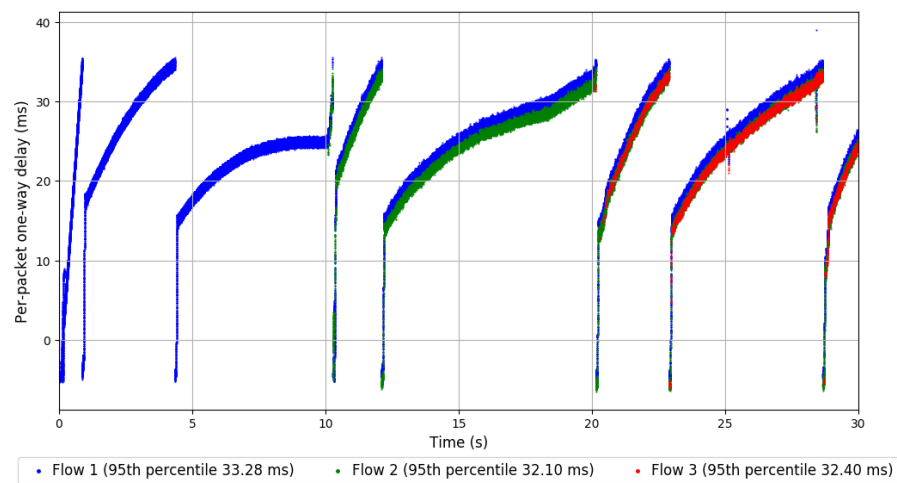
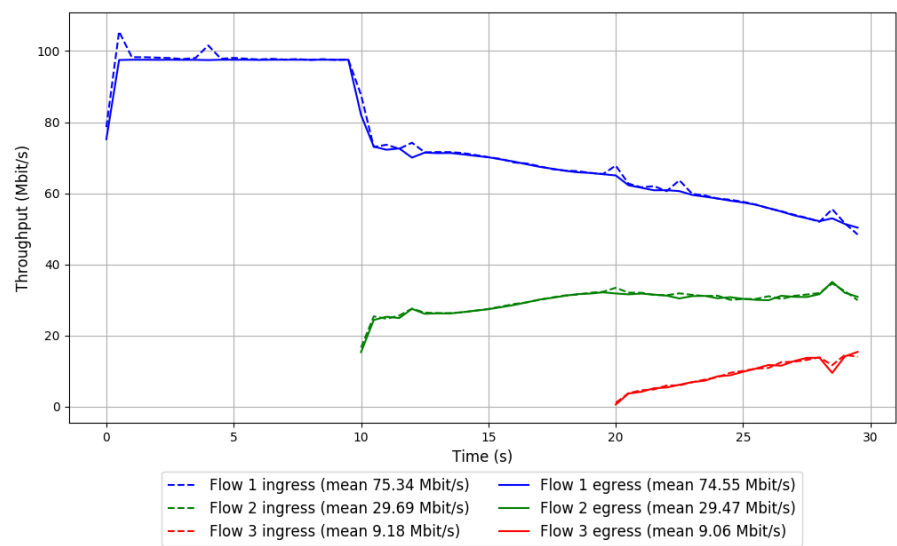


Run 7: Statistics of TCP Cubic

Start at: 2017-12-05 23:33:15
End at: 2017-12-05 23:33:45
Local clock offset: 1.462 ms
Remote clock offset: -12.825 ms

Below is generated by plot.py at 2017-12-06 00:59:28
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.14 Mbit/s
95th percentile per-packet one-way delay: 33.051 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 74.55 Mbit/s
95th percentile per-packet one-way delay: 33.283 ms
Loss rate: 0.95%
-- Flow 2:
Average throughput: 29.47 Mbit/s
95th percentile per-packet one-way delay: 32.097 ms
Loss rate: 0.74%
-- Flow 3:
Average throughput: 9.06 Mbit/s
95th percentile per-packet one-way delay: 32.397 ms
Loss rate: 1.47%

Run 7: Report of TCP Cubic — Data Link

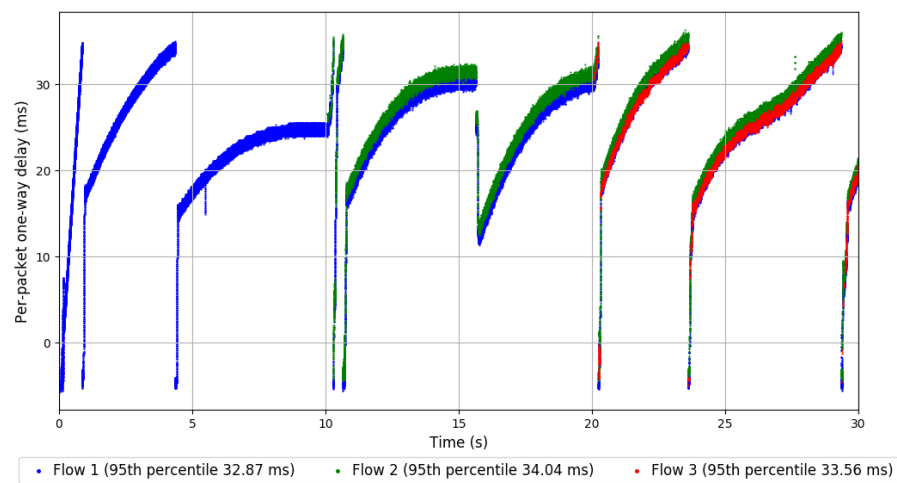
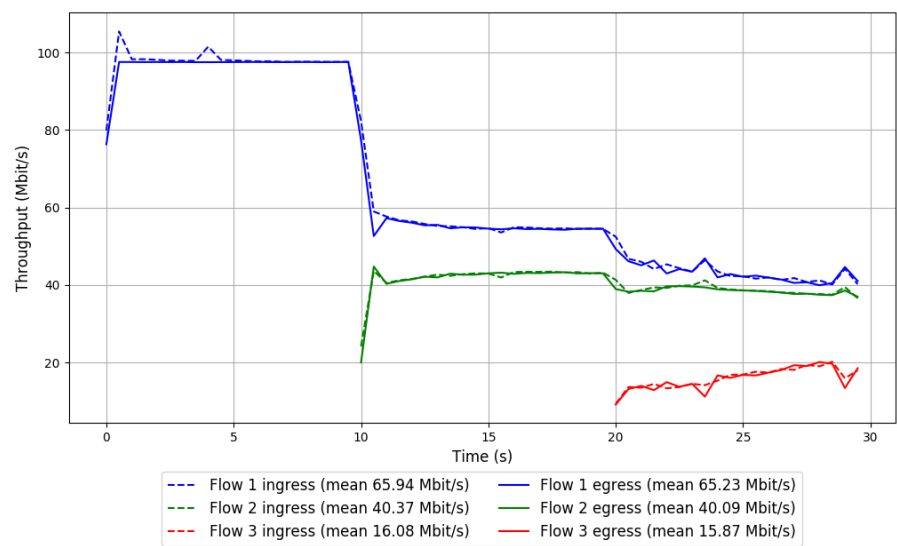


Run 8: Statistics of TCP Cubic

Start at: 2017-12-05 23:49:48
End at: 2017-12-05 23:50:18
Local clock offset: 2.832 ms
Remote clock offset: -10.163 ms

Below is generated by plot.py at 2017-12-06 00:59:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.15 Mbit/s
95th percentile per-packet one-way delay: 33.293 ms
Loss rate: 0.94%
-- Flow 1:
Average throughput: 65.23 Mbit/s
95th percentile per-packet one-way delay: 32.866 ms
Loss rate: 1.00%
-- Flow 2:
Average throughput: 40.09 Mbit/s
95th percentile per-packet one-way delay: 34.038 ms
Loss rate: 0.70%
-- Flow 3:
Average throughput: 15.87 Mbit/s
95th percentile per-packet one-way delay: 33.564 ms
Loss rate: 1.37%

Run 8: Report of TCP Cubic — Data Link

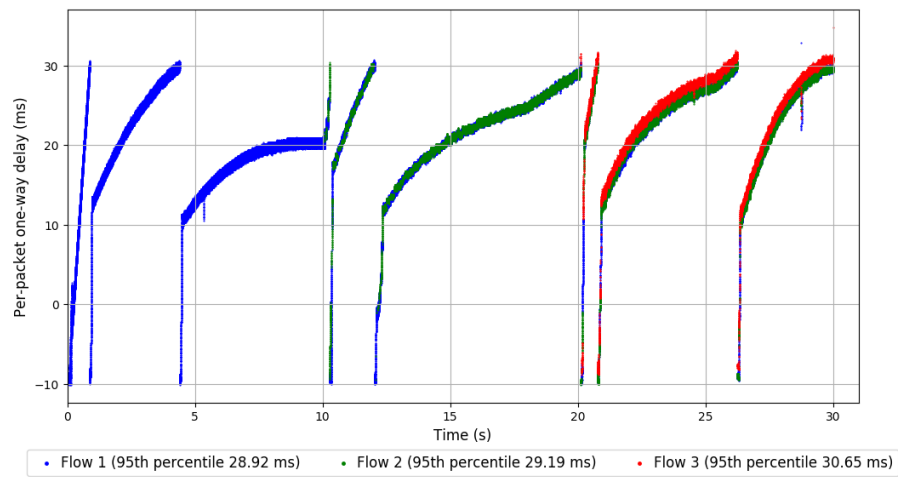
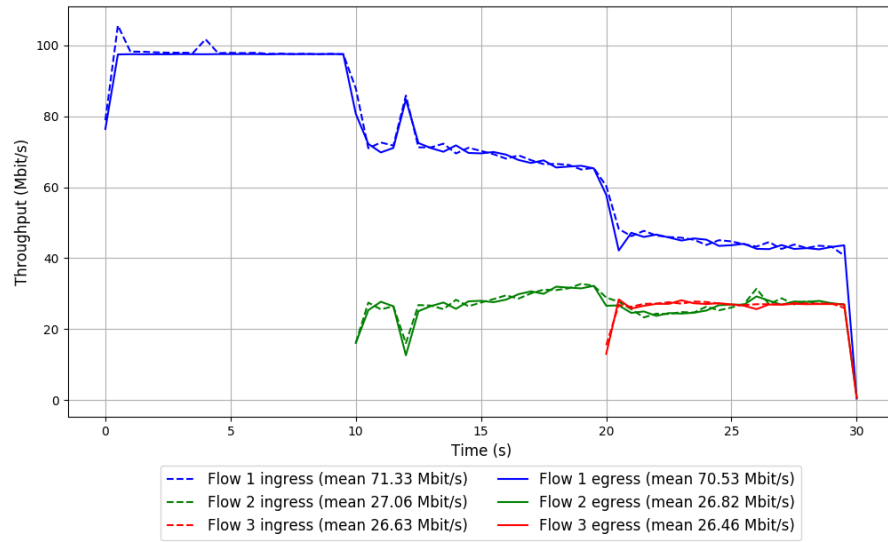


Run 9: Statistics of TCP Cubic

Start at: 2017-12-06 00:06:12
End at: 2017-12-06 00:06:42
Local clock offset: 6.336 ms
Remote clock offset: -12.563 ms

Below is generated by plot.py at 2017-12-06 00:59:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.14 Mbit/s
95th percentile per-packet one-way delay: 29.203 ms
Loss rate: 0.93%
-- Flow 1:
Average throughput: 70.53 Mbit/s
95th percentile per-packet one-way delay: 28.921 ms
Loss rate: 1.00%
-- Flow 2:
Average throughput: 26.82 Mbit/s
95th percentile per-packet one-way delay: 29.192 ms
Loss rate: 0.84%
-- Flow 3:
Average throughput: 26.46 Mbit/s
95th percentile per-packet one-way delay: 30.653 ms
Loss rate: 0.60%

Run 9: Report of TCP Cubic — Data Link

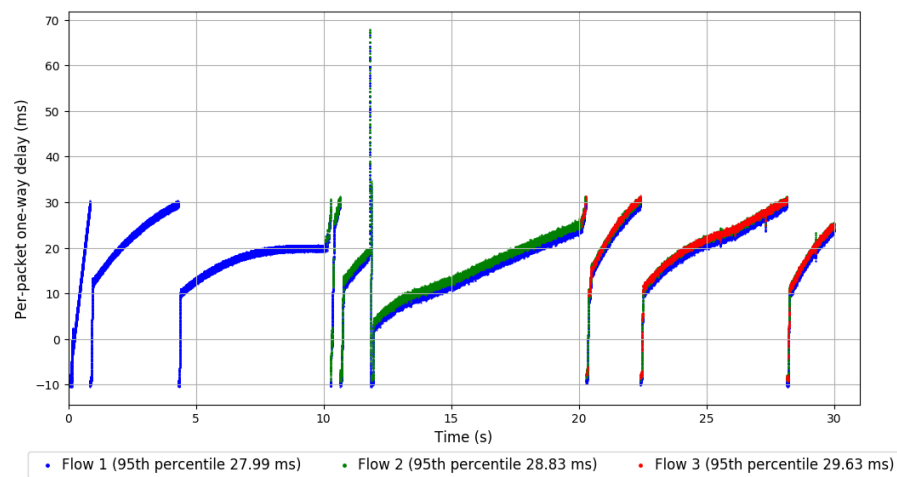
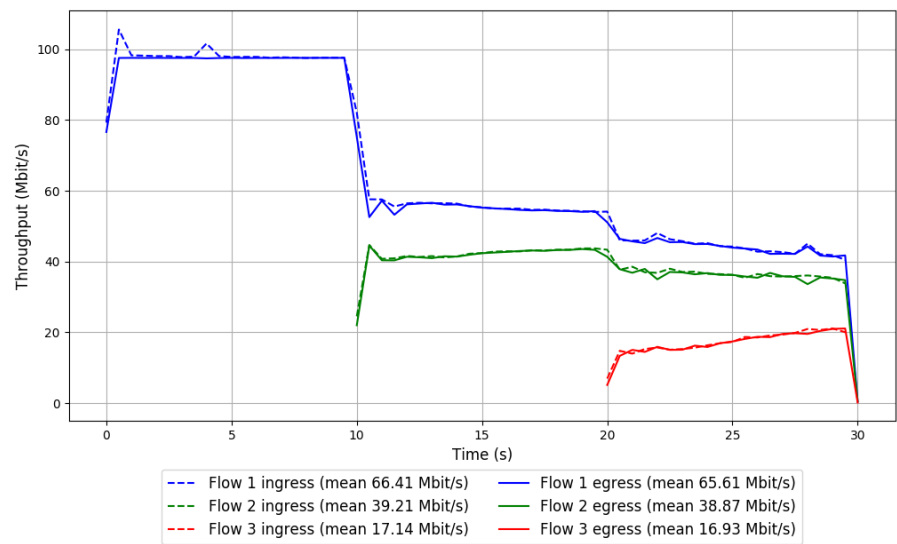


Run 10: Statistics of TCP Cubic

Start at: 2017-12-06 00:22:43
End at: 2017-12-06 00:23:13
Local clock offset: 5.625 ms
Remote clock offset: -13.824 ms

Below is generated by plot.py at 2017-12-06 00:59:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.09 Mbit/s
95th percentile per-packet one-way delay: 28.349 ms
Loss rate: 1.04%
-- Flow 1:
Average throughput: 65.61 Mbit/s
95th percentile per-packet one-way delay: 27.989 ms
Loss rate: 1.09%
-- Flow 2:
Average throughput: 38.87 Mbit/s
95th percentile per-packet one-way delay: 28.834 ms
Loss rate: 0.87%
-- Flow 3:
Average throughput: 16.93 Mbit/s
95th percentile per-packet one-way delay: 29.631 ms
Loss rate: 1.22%

Run 10: Report of TCP Cubic — Data Link

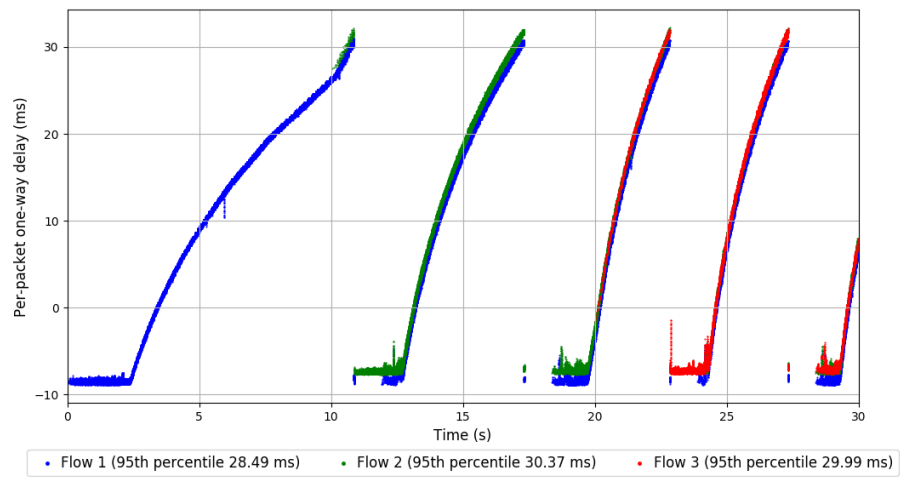
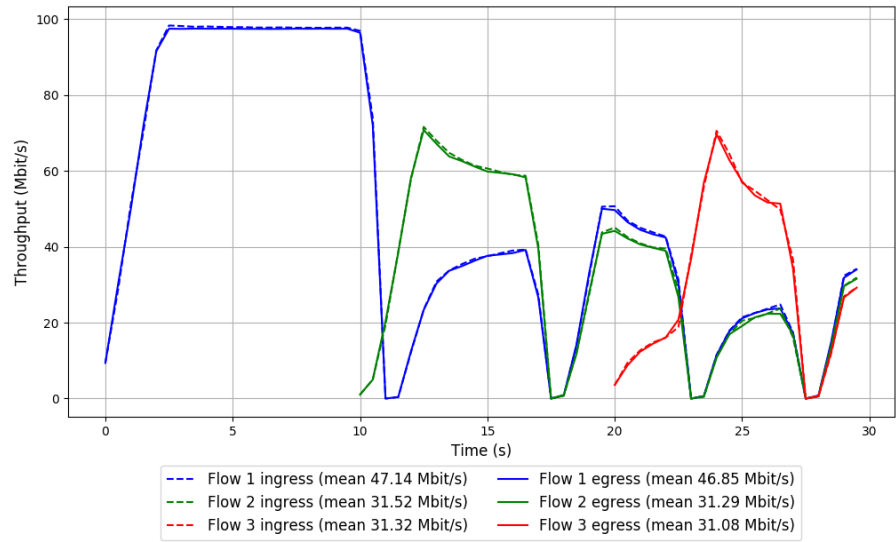


```
Run 1: Statistics of LEDBAT

Start at: 2017-12-05 22:01:29
End at: 2017-12-05 22:01:59
Local clock offset: 4.742 ms
Remote clock offset: -12.455 ms

# Below is generated by plot.py at 2017-12-06 00:59:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 77.97 Mbit/s
95th percentile per-packet one-way delay: 29.413 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 46.85 Mbit/s
95th percentile per-packet one-way delay: 28.489 ms
Loss rate: 0.57%
-- Flow 2:
Average throughput: 31.29 Mbit/s
95th percentile per-packet one-way delay: 30.374 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 31.08 Mbit/s
95th percentile per-packet one-way delay: 29.992 ms
Loss rate: 0.67%
```

Run 1: Report of LEDBAT — Data Link

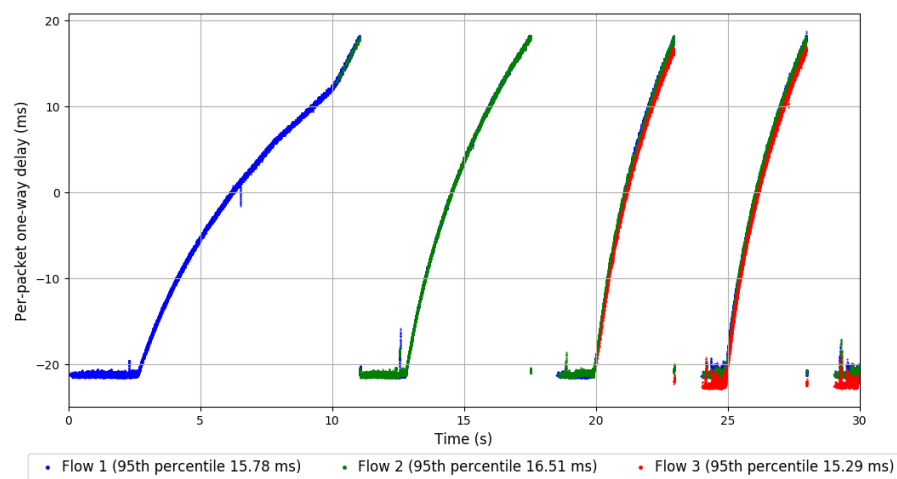
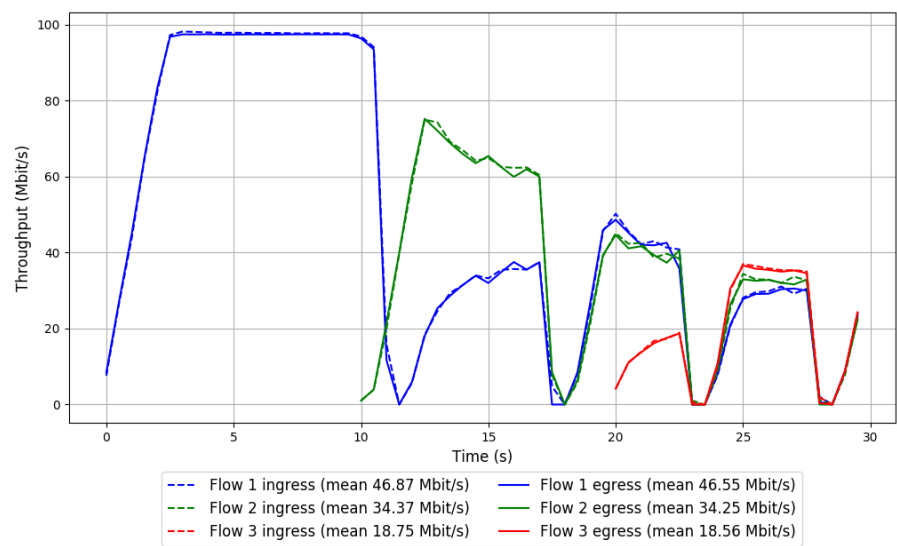


```
Run 2: Statistics of LEDBAT

Start at: 2017-12-05 22:18:01
End at: 2017-12-05 22:18:31
Local clock offset: 18.726 ms
Remote clock offset: -12.138 ms

# Below is generated by plot.py at 2017-12-06 00:59:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 75.47 Mbit/s
95th percentile per-packet one-way delay: 16.011 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 46.55 Mbit/s
95th percentile per-packet one-way delay: 15.778 ms
Loss rate: 0.69%
-- Flow 2:
Average throughput: 34.25 Mbit/s
95th percentile per-packet one-way delay: 16.512 ms
Loss rate: 0.52%
-- Flow 3:
Average throughput: 18.56 Mbit/s
95th percentile per-packet one-way delay: 15.292 ms
Loss rate: 1.03%
```

Run 2: Report of LEDBAT — Data Link

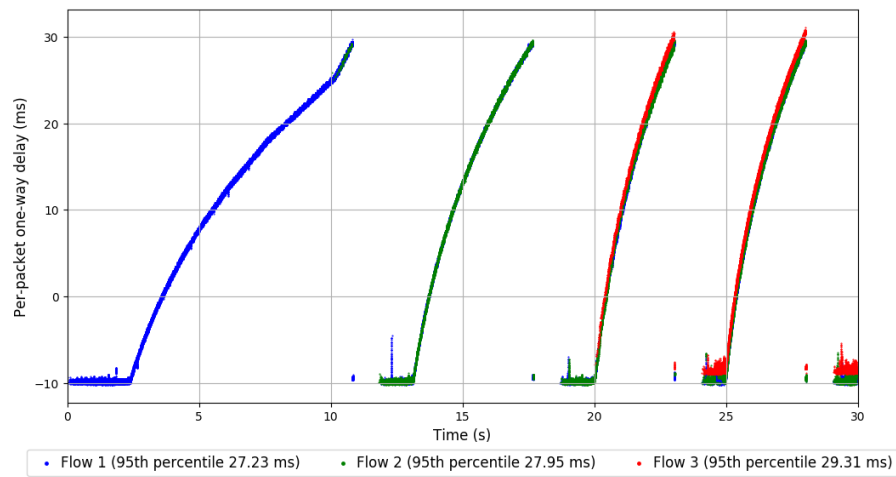
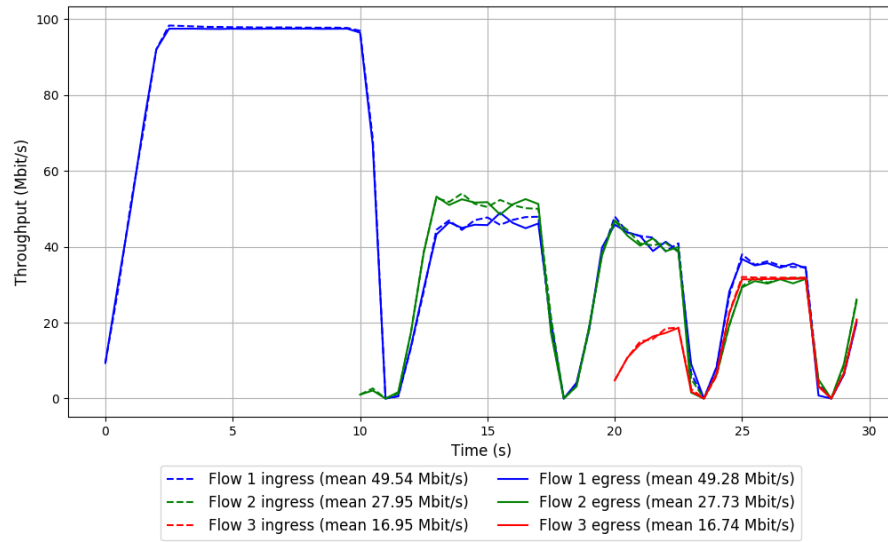


Run 3: Statistics of LEDBAT

Start at: 2017-12-05 22:34:36
End at: 2017-12-05 22:35:06
Local clock offset: 6.058 ms
Remote clock offset: -11.969 ms

Below is generated by plot.py at 2017-12-06 00:59:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 73.25 Mbit/s
95th percentile per-packet one-way delay: 27.717 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 49.28 Mbit/s
95th percentile per-packet one-way delay: 27.233 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 27.73 Mbit/s
95th percentile per-packet one-way delay: 27.951 ms
Loss rate: 0.97%
-- Flow 3:
Average throughput: 16.74 Mbit/s
95th percentile per-packet one-way delay: 29.314 ms
Loss rate: 1.28%

Run 3: Report of LEDBAT — Data Link

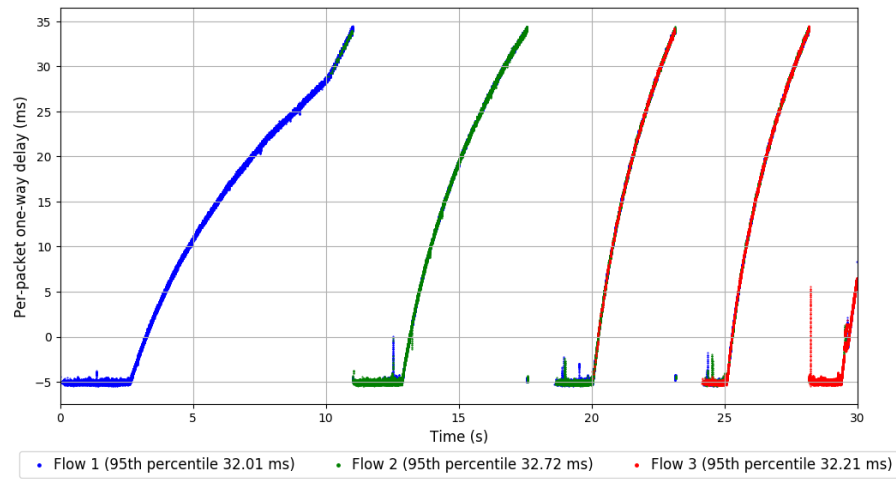
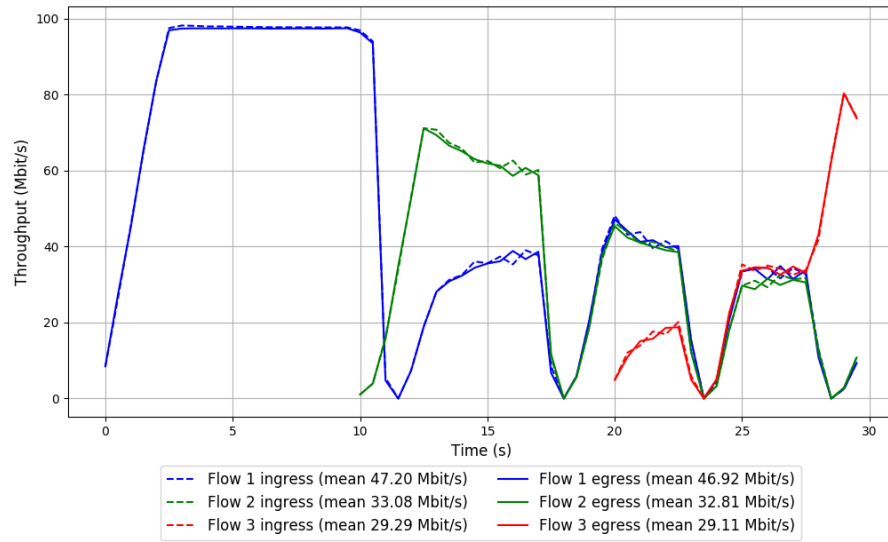


Run 4: Statistics of LEDBAT

Start at: 2017-12-05 22:51:00
End at: 2017-12-05 22:51:30
Local clock offset: 3.897 ms
Remote clock offset: -10.752 ms

Below is generated by plot.py at 2017-12-06 00:59:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 78.37 Mbit/s
95th percentile per-packet one-way delay: 32.255 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 46.92 Mbit/s
95th percentile per-packet one-way delay: 32.008 ms
Loss rate: 0.56%
-- Flow 2:
Average throughput: 32.81 Mbit/s
95th percentile per-packet one-way delay: 32.716 ms
Loss rate: 0.91%
-- Flow 3:
Average throughput: 29.11 Mbit/s
95th percentile per-packet one-way delay: 32.211 ms
Loss rate: 0.50%

Run 4: Report of LEDBAT — Data Link

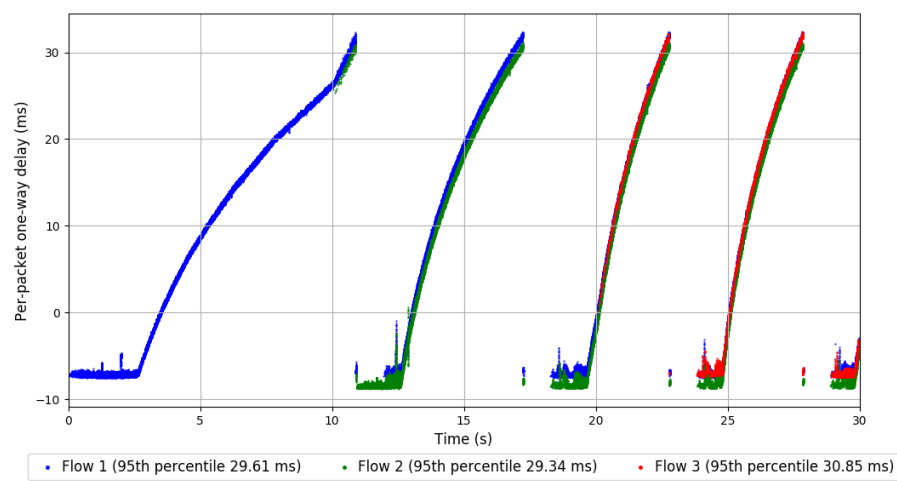
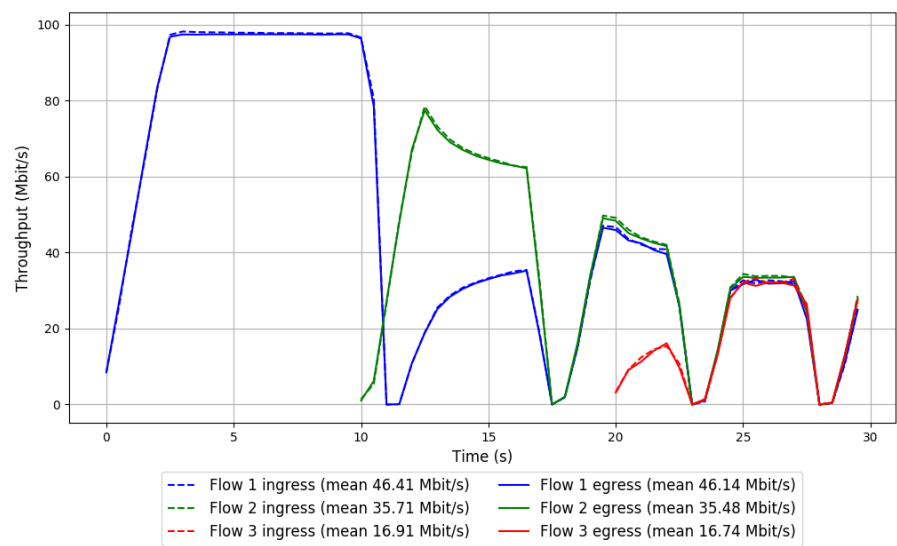


Run 5: Statistics of LEDBAT

Start at: 2017-12-05 23:07:32
End at: 2017-12-05 23:08:02
Local clock offset: 4.367 ms
Remote clock offset: -12.498 ms

Below is generated by plot.py at 2017-12-06 01:00:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 75.29 Mbit/s
95th percentile per-packet one-way delay: 29.617 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 46.14 Mbit/s
95th percentile per-packet one-way delay: 29.613 ms
Loss rate: 0.56%
-- Flow 2:
Average throughput: 35.48 Mbit/s
95th percentile per-packet one-way delay: 29.335 ms
Loss rate: 0.78%
-- Flow 3:
Average throughput: 16.74 Mbit/s
95th percentile per-packet one-way delay: 30.849 ms
Loss rate: 1.08%

Run 5: Report of LEDBAT — Data Link

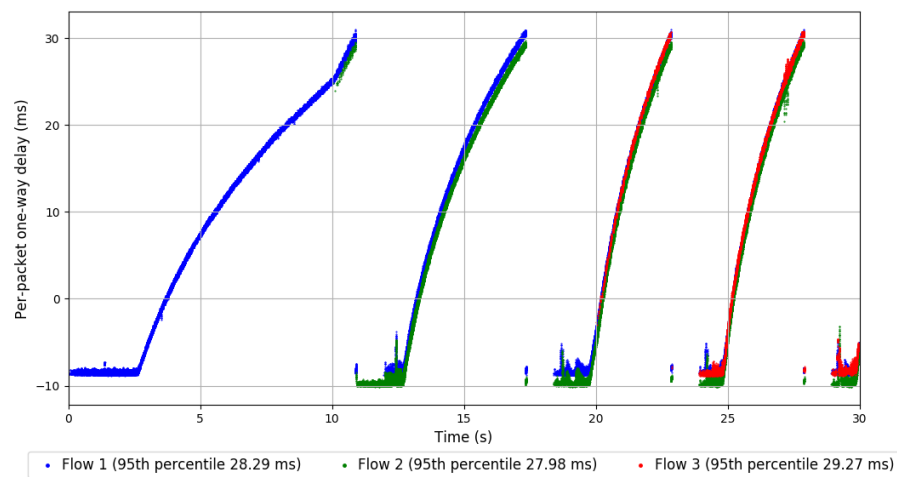
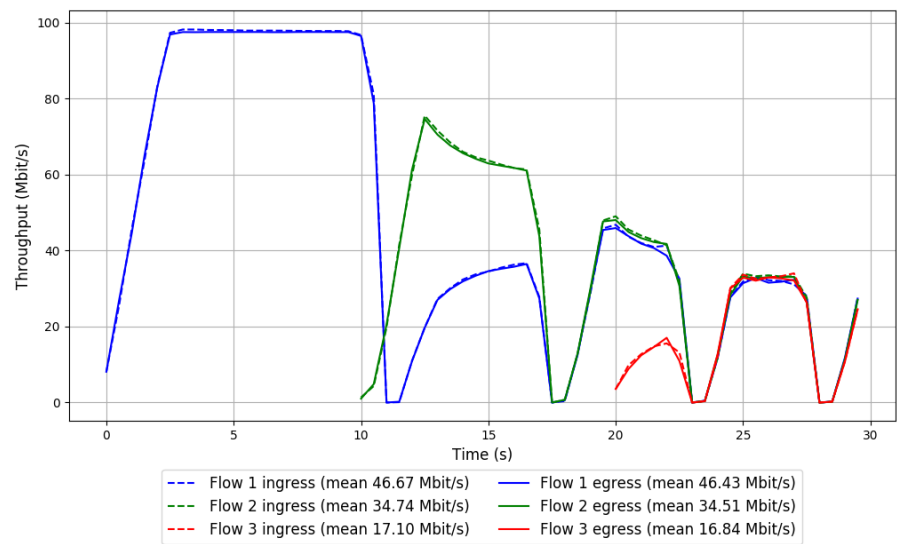


Run 6: Statistics of LEDBAT

Start at: 2017-12-05 23:23:56
End at: 2017-12-05 23:24:26
Local clock offset: 6.03 ms
Remote clock offset: -12.295 ms

Below is generated by plot.py at 2017-12-06 01:00:28
Datalink statistics
-- Total of 3 flows:
Average throughput: 74.96 Mbit/s
95th percentile per-packet one-way delay: 28.274 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 46.43 Mbit/s
95th percentile per-packet one-way delay: 28.288 ms
Loss rate: 0.50%
-- Flow 2:
Average throughput: 34.51 Mbit/s
95th percentile per-packet one-way delay: 27.981 ms
Loss rate: 0.80%
-- Flow 3:
Average throughput: 16.84 Mbit/s
95th percentile per-packet one-way delay: 29.271 ms
Loss rate: 1.54%

Run 6: Report of LEDBAT — Data Link

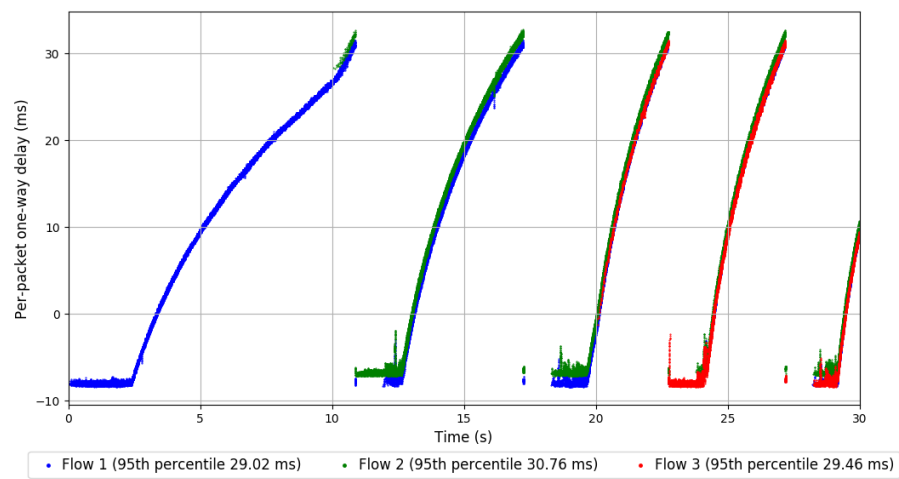
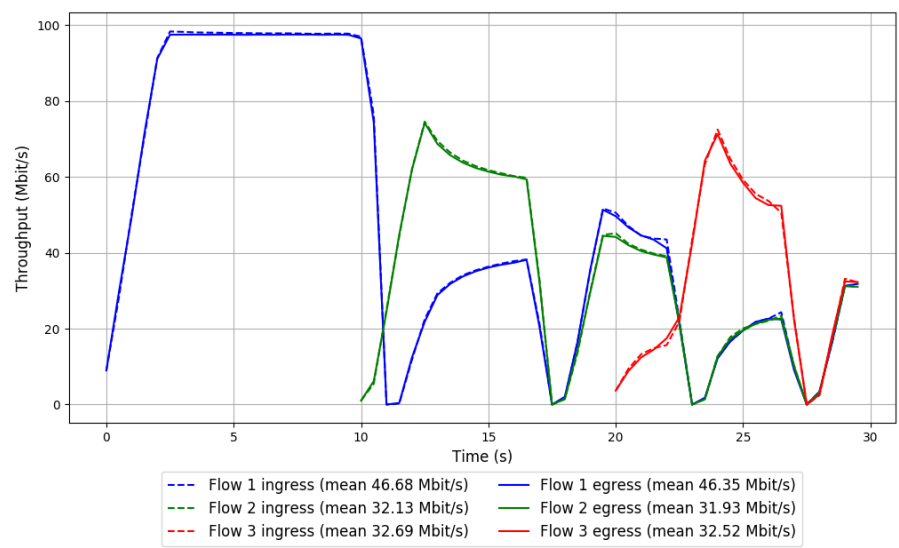


Run 7: Statistics of LEDBAT

Start at: 2017-12-05 23:40:16
End at: 2017-12-05 23:40:46
Local clock offset: 4.044 ms
Remote clock offset: -11.767 ms

Below is generated by plot.py at 2017-12-06 01:00:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 78.34 Mbit/s
95th percentile per-packet one-way delay: 29.715 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 46.35 Mbit/s
95th percentile per-packet one-way delay: 29.017 ms
Loss rate: 0.66%
-- Flow 2:
Average throughput: 31.93 Mbit/s
95th percentile per-packet one-way delay: 30.758 ms
Loss rate: 0.71%
-- Flow 3:
Average throughput: 32.52 Mbit/s
95th percentile per-packet one-way delay: 29.464 ms
Loss rate: 0.45%

Run 7: Report of LEDBAT — Data Link

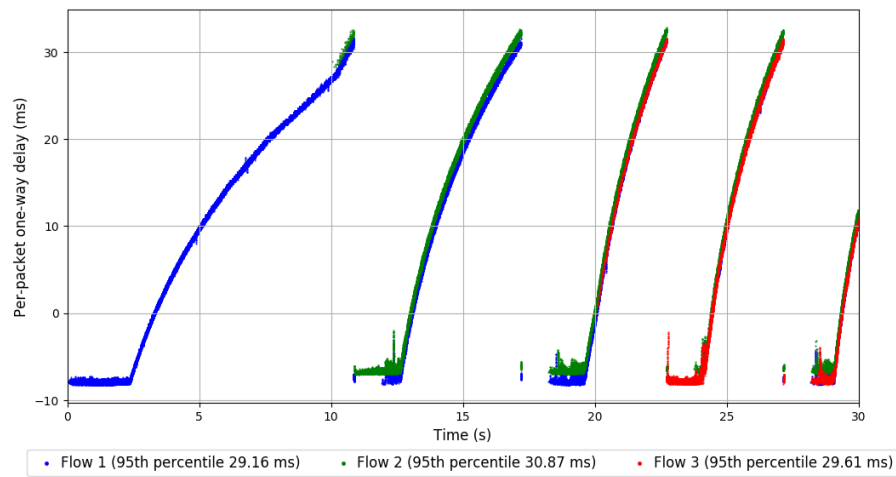
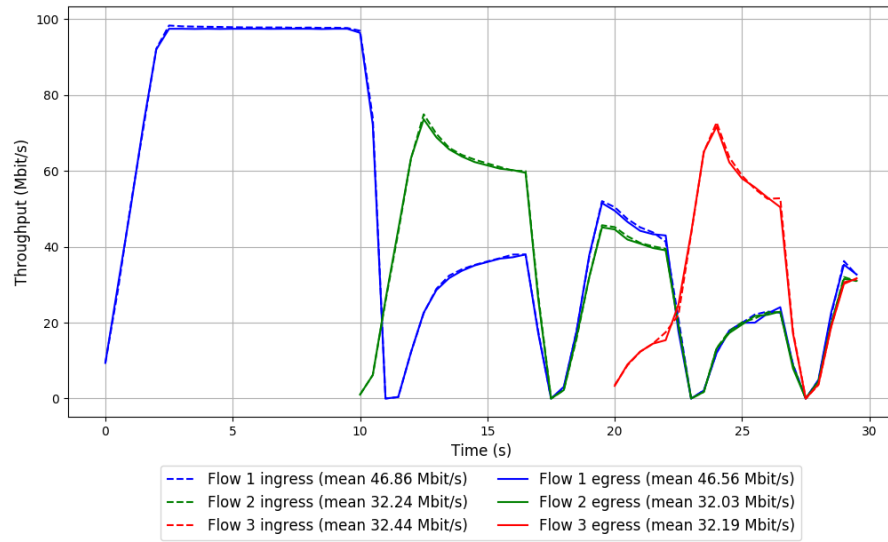


Run 8: Statistics of LEDBAT

Start at: 2017-12-05 23:56:51
End at: 2017-12-05 23:57:21
Local clock offset: 3.981 ms
Remote clock offset: -11.969 ms

Below is generated by plot.py at 2017-12-06 01:00:37
Datalink statistics
-- Total of 3 flows:
Average throughput: 78.54 Mbit/s
95th percentile per-packet one-way delay: 29.853 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 46.56 Mbit/s
95th percentile per-packet one-way delay: 29.165 ms
Loss rate: 0.59%
-- Flow 2:
Average throughput: 32.03 Mbit/s
95th percentile per-packet one-way delay: 30.870 ms
Loss rate: 0.74%
-- Flow 3:
Average throughput: 32.19 Mbit/s
95th percentile per-packet one-way delay: 29.610 ms
Loss rate: 0.67%

Run 8: Report of LEDBAT — Data Link

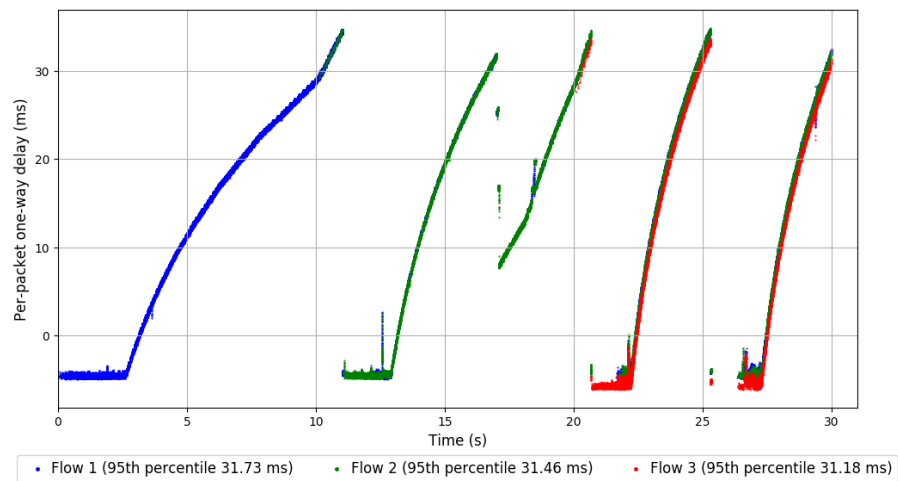
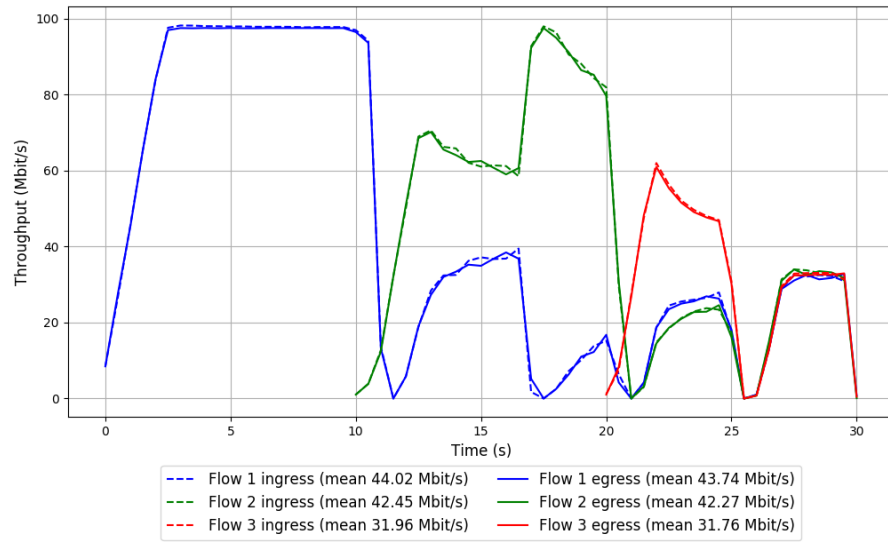


Run 9: Statistics of LEDBAT

Start at: 2017-12-06 00:13:12
End at: 2017-12-06 00:13:42
Local clock offset: 1.402 ms
Remote clock offset: -13.772 ms

Below is generated by plot.py at 2017-12-06 01:00:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 82.39 Mbit/s
95th percentile per-packet one-way delay: 31.500 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 43.74 Mbit/s
95th percentile per-packet one-way delay: 31.726 ms
Loss rate: 0.50%
-- Flow 2:
Average throughput: 42.27 Mbit/s
95th percentile per-packet one-way delay: 31.463 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 31.76 Mbit/s
95th percentile per-packet one-way delay: 31.183 ms
Loss rate: 0.59%

Run 9: Report of LEDBAT — Data Link

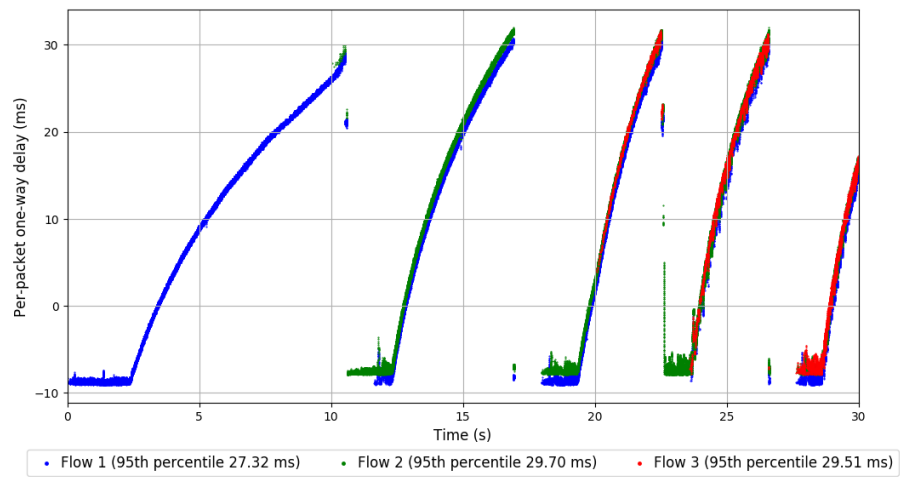
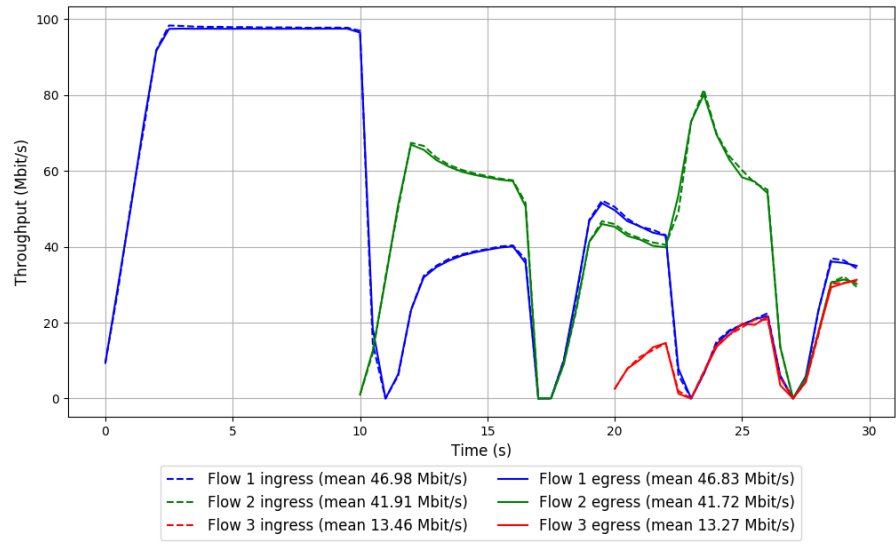


Run 10: Statistics of LEDBAT

Start at: 2017-12-06 00:29:44
End at: 2017-12-06 00:30:14
Local clock offset: 6.05 ms
Remote clock offset: -11.975 ms

Below is generated by plot.py at 2017-12-06 01:00:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 78.96 Mbit/s
95th percentile per-packet one-way delay: 28.474 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 46.83 Mbit/s
95th percentile per-packet one-way delay: 27.322 ms
Loss rate: 0.24%
-- Flow 2:
Average throughput: 41.72 Mbit/s
95th percentile per-packet one-way delay: 29.698 ms
Loss rate: 0.49%
-- Flow 3:
Average throughput: 13.27 Mbit/s
95th percentile per-packet one-way delay: 29.507 ms
Loss rate: 1.29%

Run 10: Report of LEDBAT — Data Link

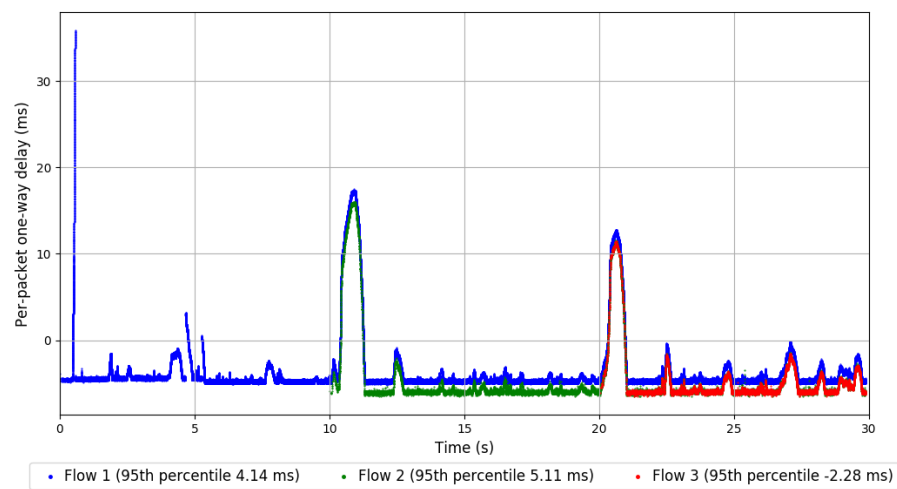
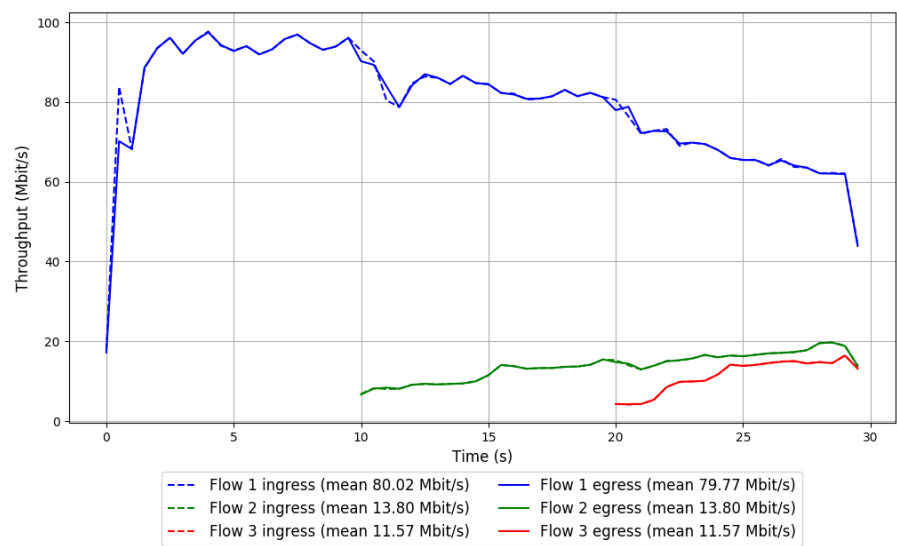


```
Run 1: Statistics of PCC

Start at: 2017-12-05 21:48:29
End at: 2017-12-05 21:48:59
Local clock offset: 3.696 ms
Remote clock offset: -11.124 ms

# Below is generated by plot.py at 2017-12-06 01:01:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.76 Mbit/s
95th percentile per-packet one-way delay: 3.524 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 79.77 Mbit/s
95th percentile per-packet one-way delay: 4.142 ms
Loss rate: 0.32%
-- Flow 2:
Average throughput: 13.80 Mbit/s
95th percentile per-packet one-way delay: 5.113 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 11.57 Mbit/s
95th percentile per-packet one-way delay: -2.279 ms
Loss rate: 0.00%
```

Run 1: Report of PCC — Data Link

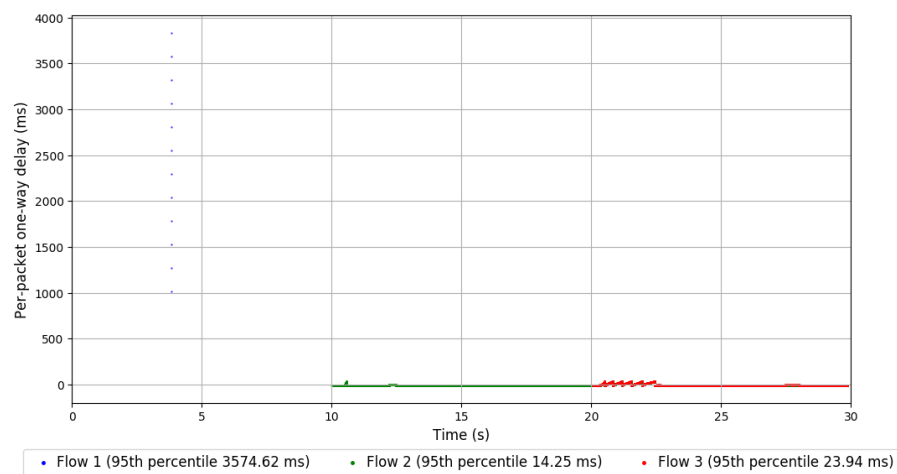
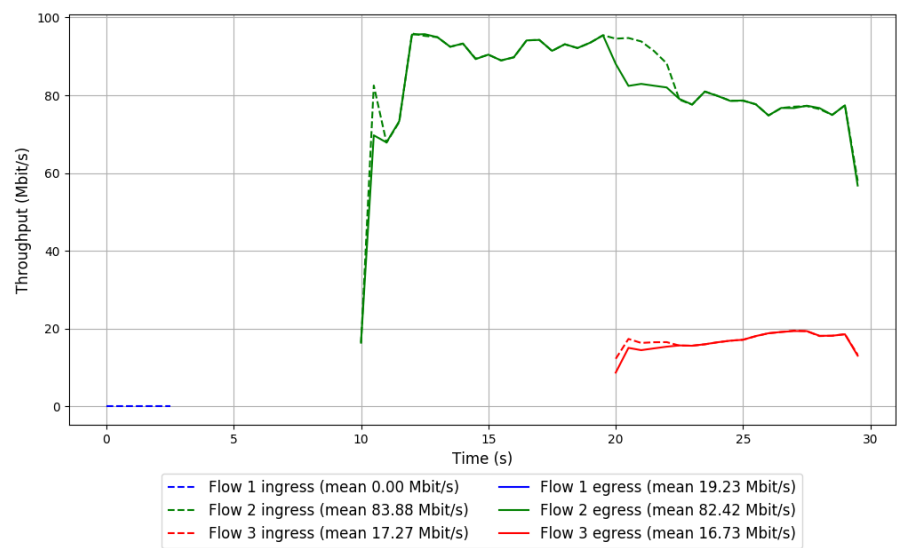


Run 2: Statistics of PCC

Start at: 2017-12-05 22:05:07
End at: 2017-12-05 22:05:37
Local clock offset: 4.688 ms
Remote clock offset: -11.688 ms

Below is generated by plot.py at 2017-12-06 01:01:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 69.21 Mbit/s
95th percentile per-packet one-way delay: 15.868 ms
Loss rate: 1.86%
-- Flow 1:
Average throughput: 19.23 Mbit/s
95th percentile per-packet one-way delay: 3574.625 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 82.42 Mbit/s
95th percentile per-packet one-way delay: 14.246 ms
Loss rate: 1.73%
-- Flow 3:
Average throughput: 16.73 Mbit/s
95th percentile per-packet one-way delay: 23.944 ms
Loss rate: 3.13%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

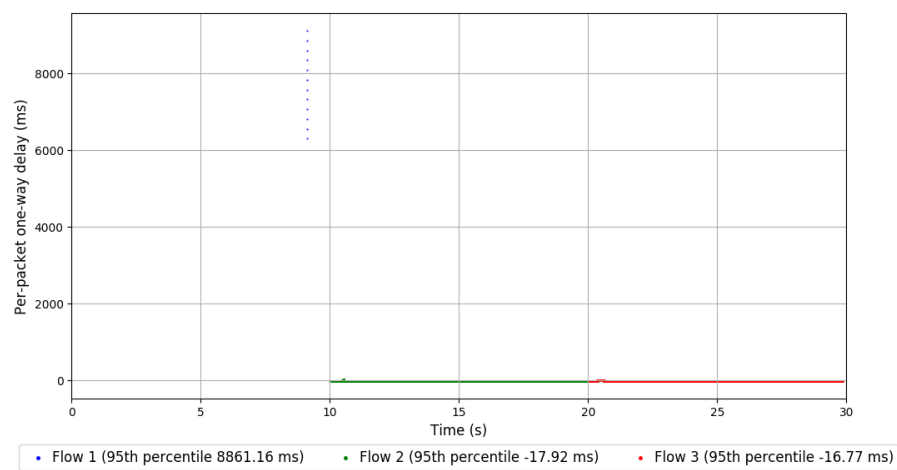
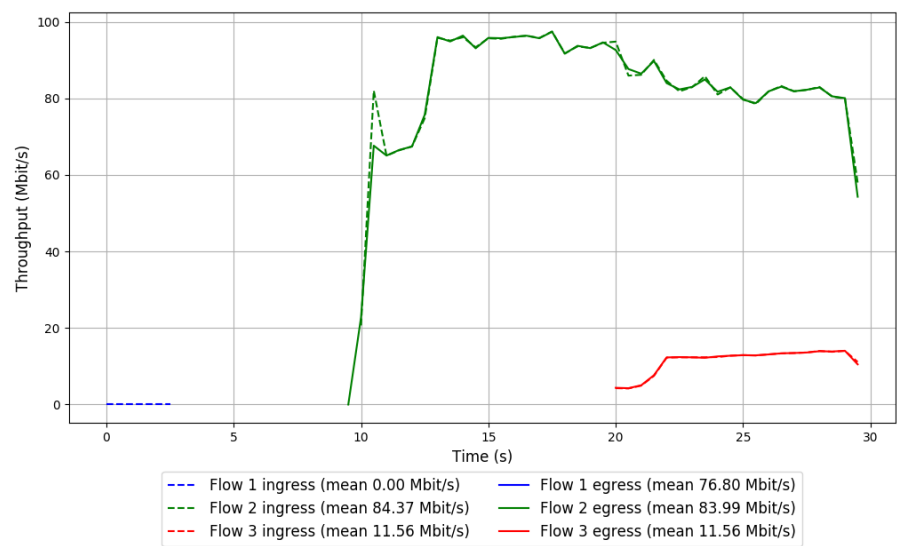
Start at: 2017-12-05 22:21:41

End at: 2017-12-05 22:22:11

Local clock offset: 20.408 ms

Remote clock offset: -10.245 ms

Run 3: Report of PCC — Data Link

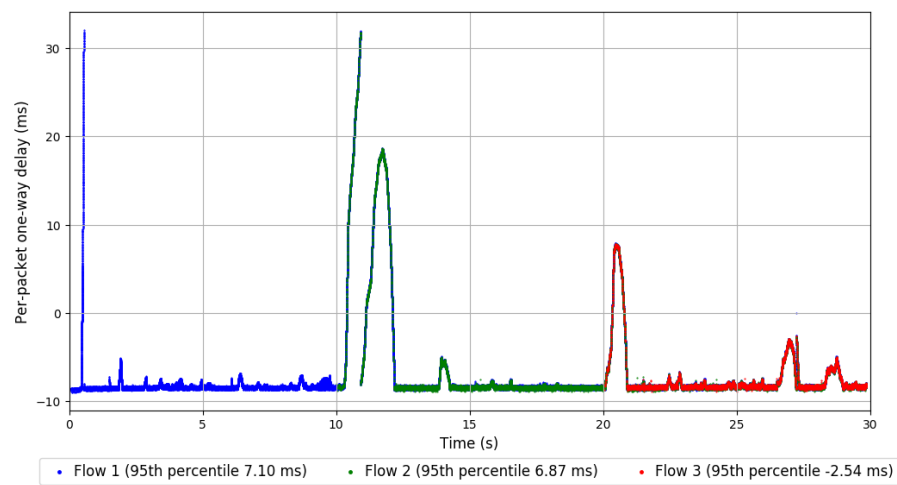
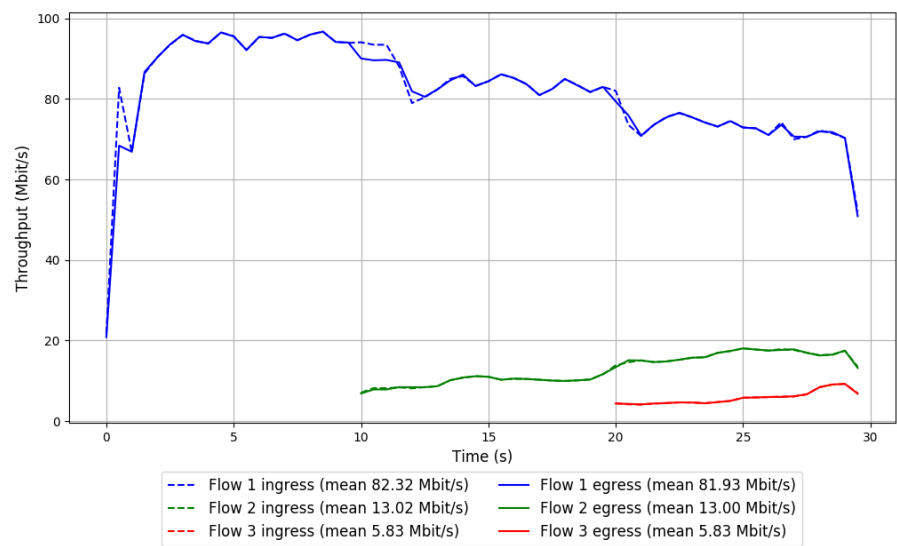


Run 4: Statistics of PCC

Start at: 2017-12-05 22:38:12
End at: 2017-12-05 22:38:42
Local clock offset: 5.376 ms
Remote clock offset: -11.232 ms

Below is generated by plot.py at 2017-12-06 01:01:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 92.49 Mbit/s
95th percentile per-packet one-way delay: 6.898 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 81.93 Mbit/s
95th percentile per-packet one-way delay: 7.100 ms
Loss rate: 0.48%
-- Flow 2:
Average throughput: 13.00 Mbit/s
95th percentile per-packet one-way delay: 6.871 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 5.83 Mbit/s
95th percentile per-packet one-way delay: -2.542 ms
Loss rate: 0.00%

Run 4: Report of PCC — Data Link

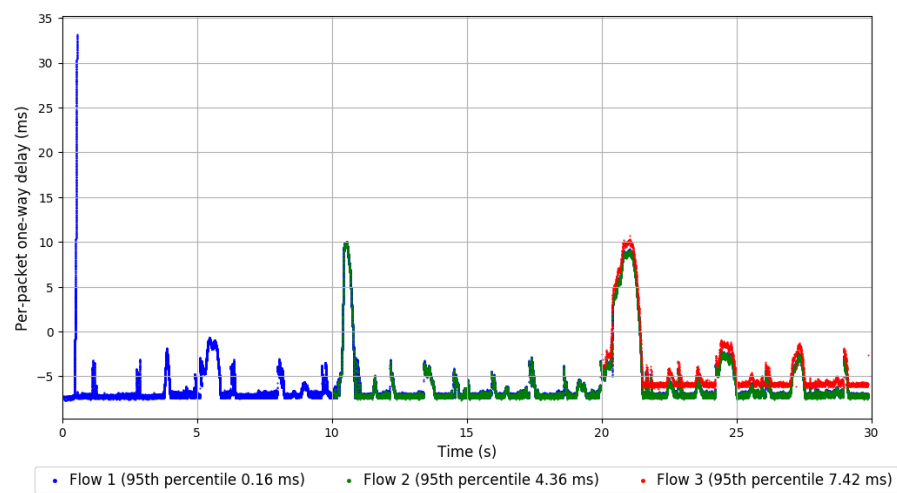
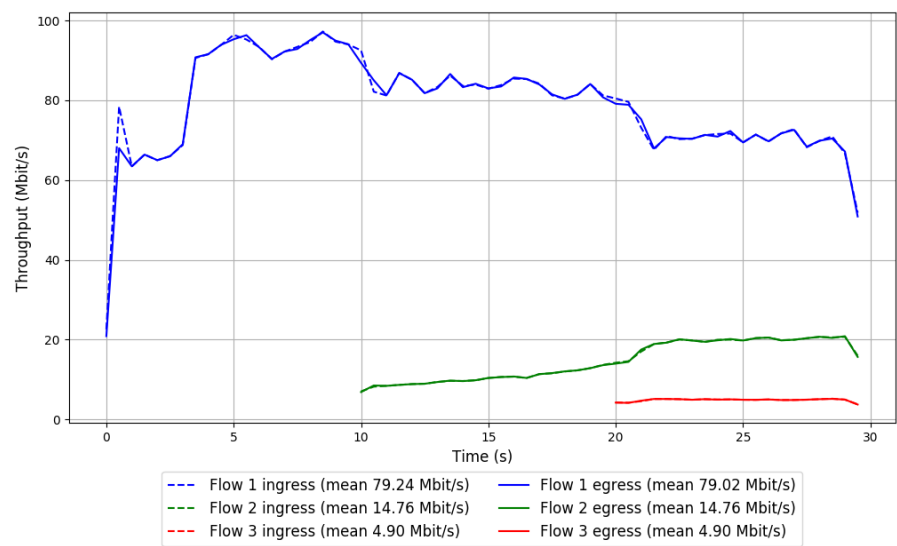


Run 5: Statistics of PCC

Start at: 2017-12-05 22:54:42
End at: 2017-12-05 22:55:12
Local clock offset: 4.675 ms
Remote clock offset: -10.863 ms

Below is generated by plot.py at 2017-12-06 01:01:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 90.43 Mbit/s
95th percentile per-packet one-way delay: 1.710 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 79.02 Mbit/s
95th percentile per-packet one-way delay: 0.158 ms
Loss rate: 0.28%
-- Flow 2:
Average throughput: 14.76 Mbit/s
95th percentile per-packet one-way delay: 4.361 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 4.90 Mbit/s
95th percentile per-packet one-way delay: 7.416 ms
Loss rate: 0.00%

Run 5: Report of PCC — Data Link

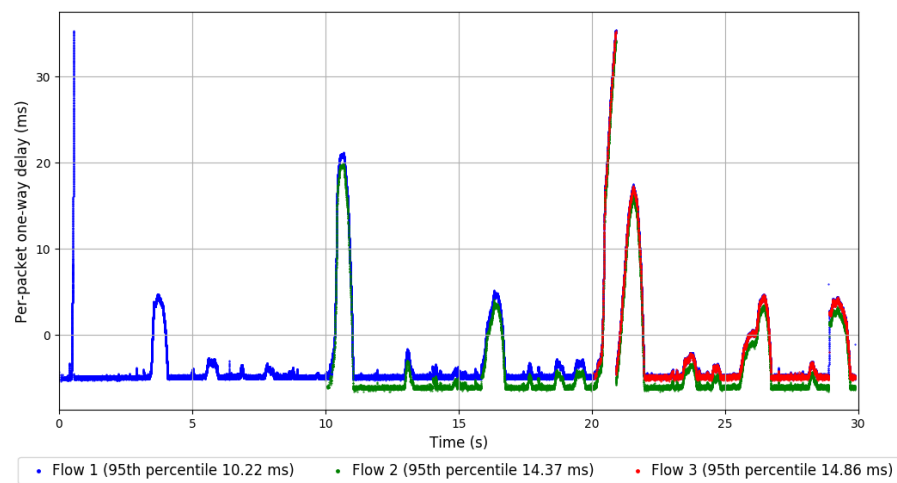
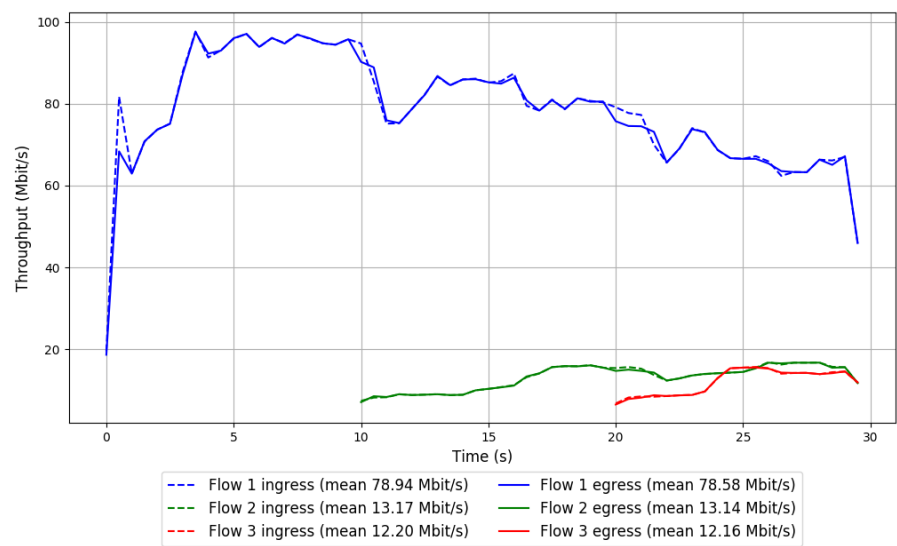


Run 6: Statistics of PCC

Start at: 2017-12-05 23:11:07
End at: 2017-12-05 23:11:37
Local clock offset: 3.057 ms
Remote clock offset: -11.573 ms

Below is generated by plot.py at 2017-12-06 01:01:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 91.32 Mbit/s
95th percentile per-packet one-way delay: 11.457 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 78.58 Mbit/s
95th percentile per-packet one-way delay: 10.216 ms
Loss rate: 0.45%
-- Flow 2:
Average throughput: 13.14 Mbit/s
95th percentile per-packet one-way delay: 14.366 ms
Loss rate: 0.24%
-- Flow 3:
Average throughput: 12.16 Mbit/s
95th percentile per-packet one-way delay: 14.855 ms
Loss rate: 0.27%

Run 6: Report of PCC — Data Link

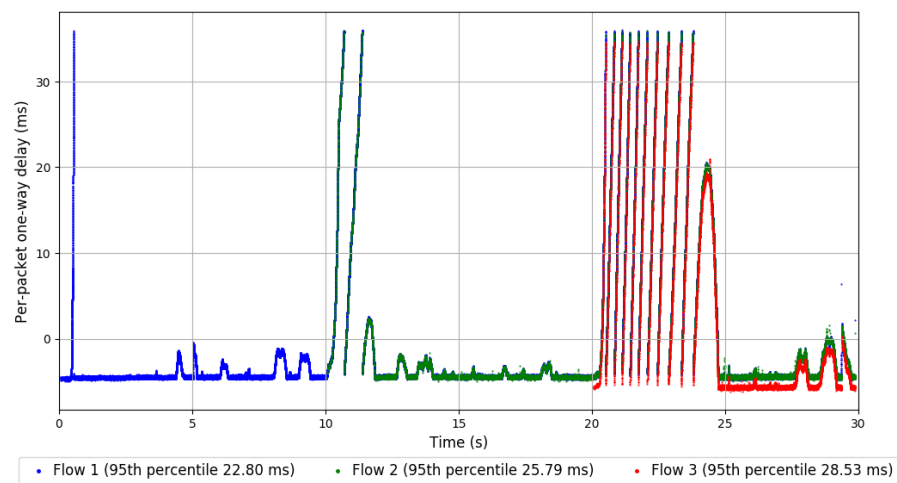
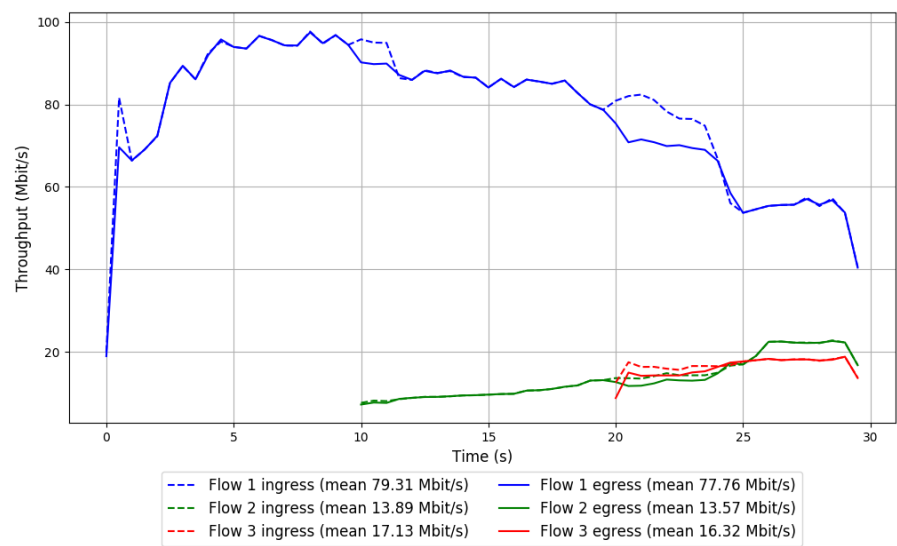


Run 7: Statistics of PCC

Start at: 2017-12-05 23:27:31
End at: 2017-12-05 23:28:01
Local clock offset: 2.997 ms
Remote clock offset: -11.079 ms

Below is generated by plot.py at 2017-12-06 01:02:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 92.15 Mbit/s
95th percentile per-packet one-way delay: 23.885 ms
Loss rate: 2.14%
-- Flow 1:
Average throughput: 77.76 Mbit/s
95th percentile per-packet one-way delay: 22.800 ms
Loss rate: 1.94%
-- Flow 2:
Average throughput: 13.57 Mbit/s
95th percentile per-packet one-way delay: 25.786 ms
Loss rate: 2.26%
-- Flow 3:
Average throughput: 16.32 Mbit/s
95th percentile per-packet one-way delay: 28.529 ms
Loss rate: 4.76%

Run 7: Report of PCC — Data Link

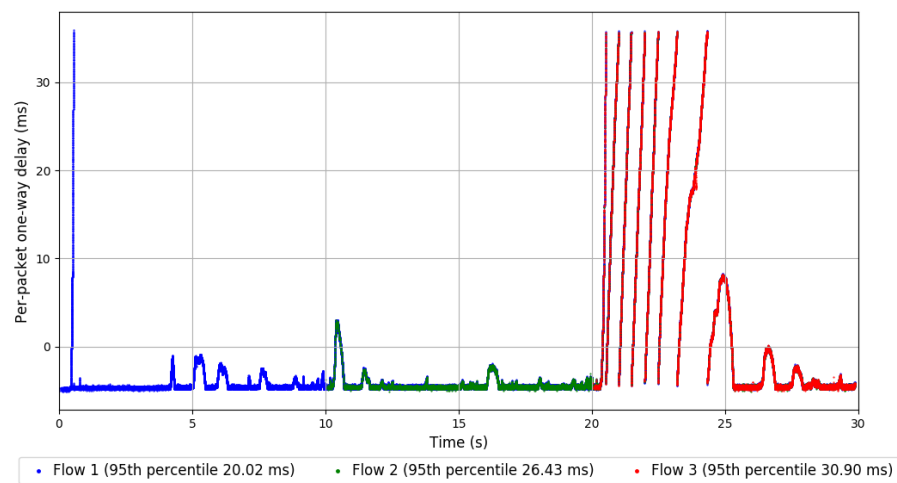
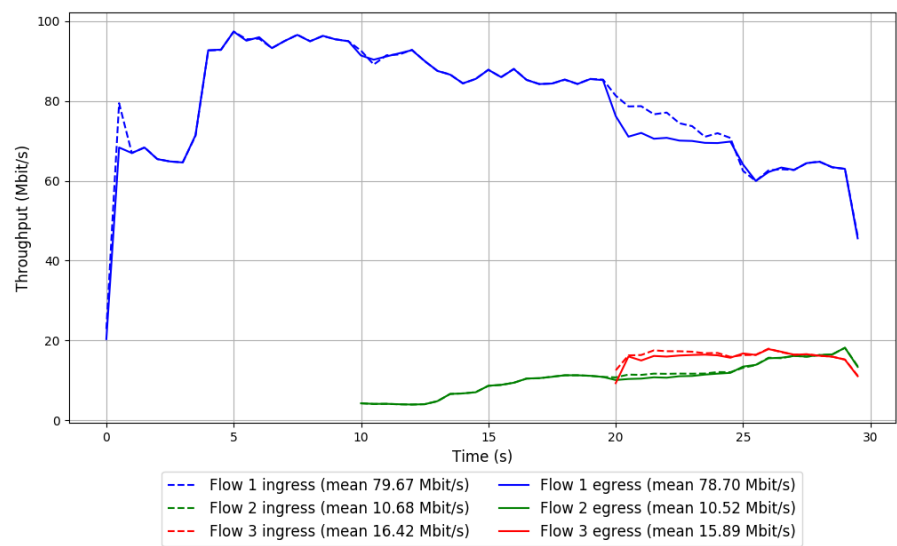


Run 8: Statistics of PCC

Start at: 2017-12-05 23:44:03
End at: 2017-12-05 23:44:33
Local clock offset: 1.624 ms
Remote clock offset: -10.625 ms

Below is generated by plot.py at 2017-12-06 01:02:04
Datalink statistics
-- Total of 3 flows:
Average throughput: 90.93 Mbit/s
95th percentile per-packet one-way delay: 22.458 ms
Loss rate: 1.35%
-- Flow 1:
Average throughput: 78.70 Mbit/s
95th percentile per-packet one-way delay: 20.021 ms
Loss rate: 1.21%
-- Flow 2:
Average throughput: 10.52 Mbit/s
95th percentile per-packet one-way delay: 26.429 ms
Loss rate: 1.50%
-- Flow 3:
Average throughput: 15.89 Mbit/s
95th percentile per-packet one-way delay: 30.900 ms
Loss rate: 3.22%

Run 8: Report of PCC — Data Link

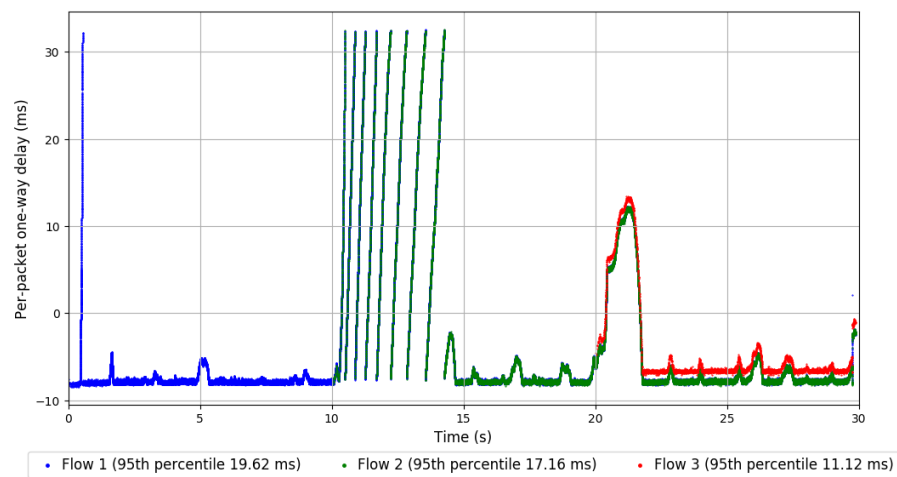
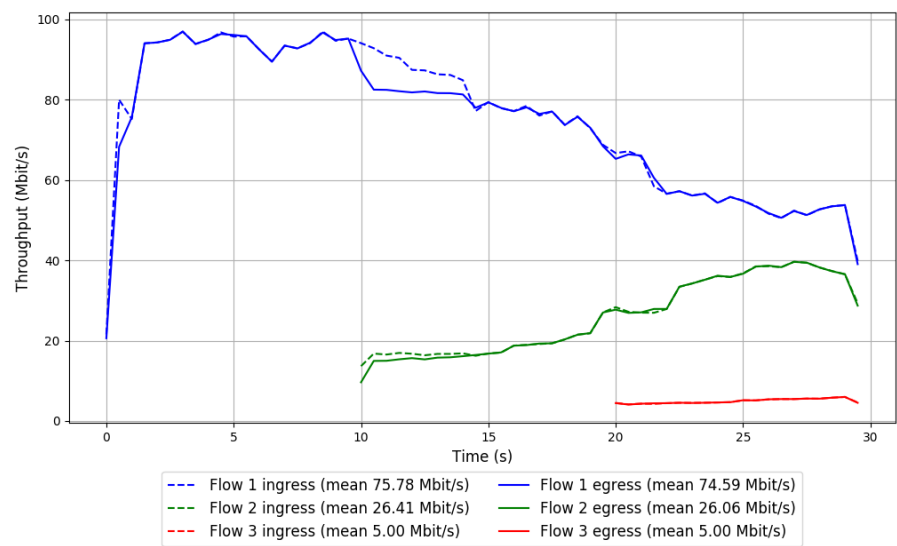


Run 9: Statistics of PCC

Start at: 2017-12-06 00:00:27
End at: 2017-12-06 00:00:57
Local clock offset: 4.314 ms
Remote clock offset: -11.985 ms

Below is generated by plot.py at 2017-12-06 01:02:15
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.56 Mbit/s
95th percentile per-packet one-way delay: 18.860 ms
Loss rate: 1.48%
-- Flow 1:
Average throughput: 74.59 Mbit/s
95th percentile per-packet one-way delay: 19.619 ms
Loss rate: 1.55%
-- Flow 2:
Average throughput: 26.06 Mbit/s
95th percentile per-packet one-way delay: 17.161 ms
Loss rate: 1.30%
-- Flow 3:
Average throughput: 5.00 Mbit/s
95th percentile per-packet one-way delay: 11.124 ms
Loss rate: 0.00%

Run 9: Report of PCC — Data Link

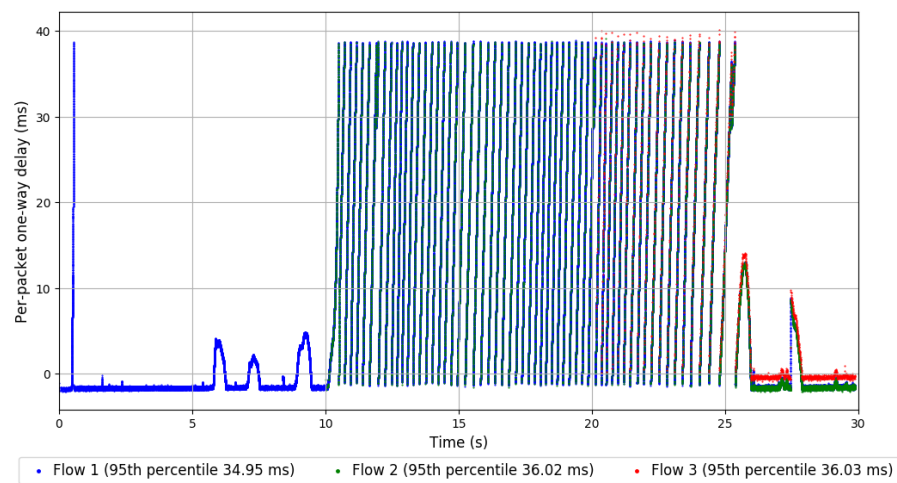
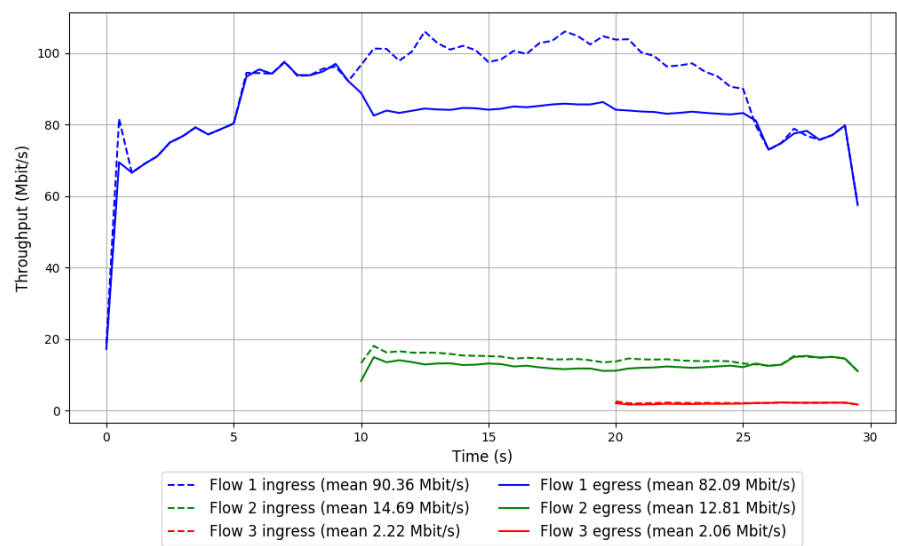


Run 10: Statistics of PCC

Start at: 2017-12-06 00:16:49
End at: 2017-12-06 00:17:19
Local clock offset: -1.776 ms
Remote clock offset: -12.607 ms

Below is generated by plot.py at 2017-12-06 01:02:27
Datalink statistics
-- Total of 3 flows:
Average throughput: 91.28 Mbit/s
95th percentile per-packet one-way delay: 35.095 ms
Loss rate: 9.49%
-- Flow 1:
Average throughput: 82.09 Mbit/s
95th percentile per-packet one-way delay: 34.946 ms
Loss rate: 9.15%
-- Flow 2:
Average throughput: 12.81 Mbit/s
95th percentile per-packet one-way delay: 36.015 ms
Loss rate: 12.84%
-- Flow 3:
Average throughput: 2.06 Mbit/s
95th percentile per-packet one-way delay: 36.034 ms
Loss rate: 7.45%

Run 10: Report of PCC — Data Link

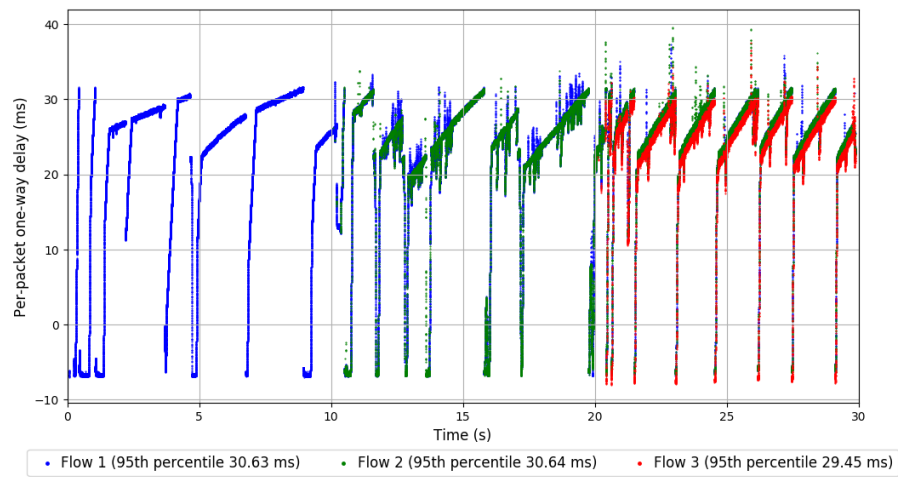
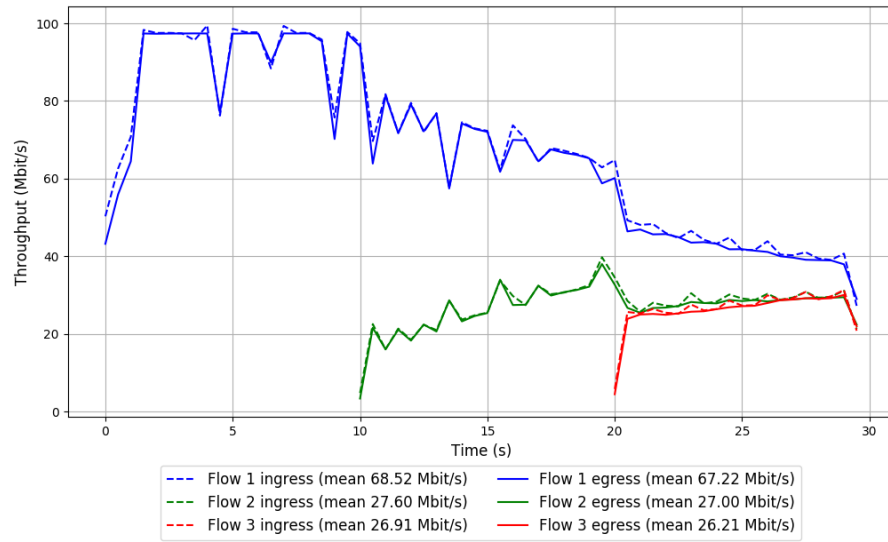


```
Run 1: Statistics of QUIC Cubic

Start at: 2017-12-05 21:59:01
End at: 2017-12-05 21:59:31
Local clock offset: 3.739 ms
Remote clock offset: -12.689 ms

# Below is generated by plot.py at 2017-12-06 01:02:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.69 Mbit/s
95th percentile per-packet one-way delay: 30.567 ms
Loss rate: 1.94%
-- Flow 1:
Average throughput: 67.22 Mbit/s
95th percentile per-packet one-way delay: 30.631 ms
Loss rate: 1.79%
-- Flow 2:
Average throughput: 27.00 Mbit/s
95th percentile per-packet one-way delay: 30.645 ms
Loss rate: 2.17%
-- Flow 3:
Average throughput: 26.21 Mbit/s
95th percentile per-packet one-way delay: 29.447 ms
Loss rate: 2.61%
```

Run 1: Report of QUIC Cubic — Data Link

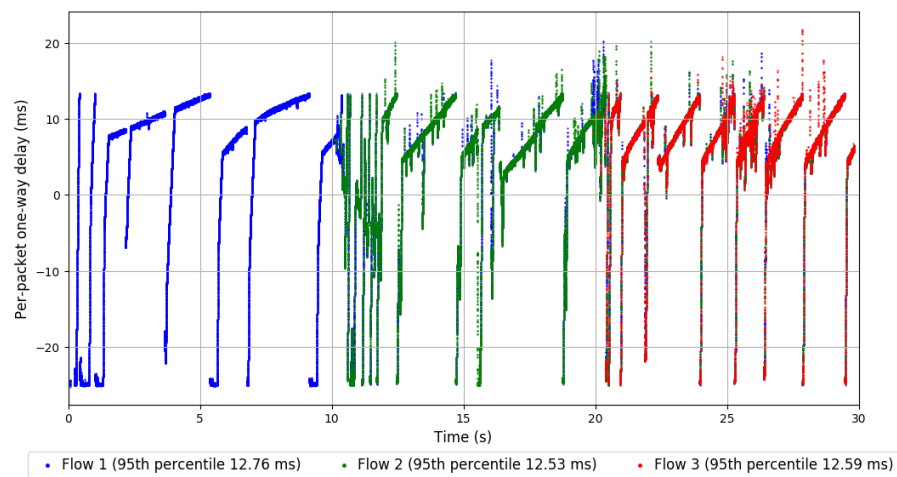
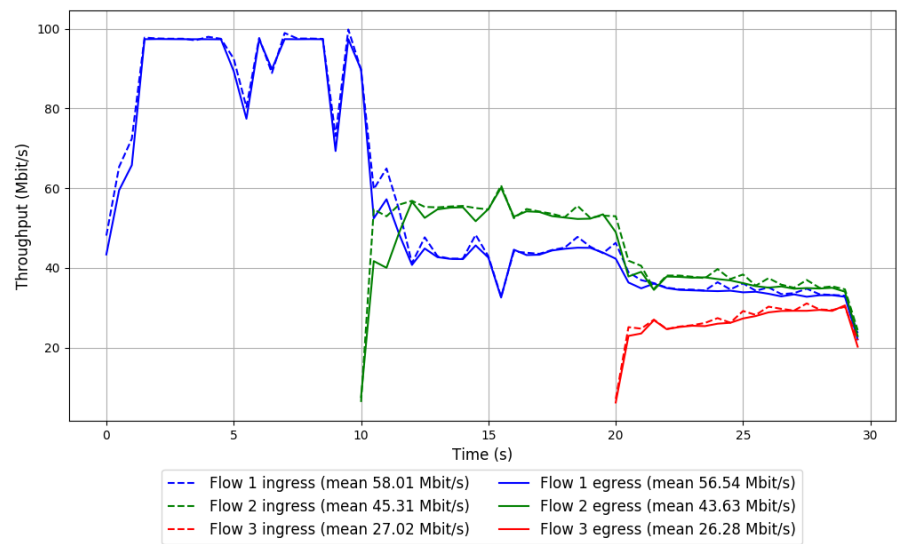


Run 2: Statistics of QUIC Cubic

Start at: 2017-12-05 22:15:38
End at: 2017-12-05 22:16:08
Local clock offset: 19.613 ms
Remote clock offset: -13.546 ms

Below is generated by plot.py at 2017-12-06 01:03:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 94.09 Mbit/s
95th percentile per-packet one-way delay: 12.689 ms
Loss rate: 2.87%
-- Flow 1:
Average throughput: 56.54 Mbit/s
95th percentile per-packet one-way delay: 12.757 ms
Loss rate: 2.45%
-- Flow 2:
Average throughput: 43.63 Mbit/s
95th percentile per-packet one-way delay: 12.528 ms
Loss rate: 3.73%
-- Flow 3:
Average throughput: 26.28 Mbit/s
95th percentile per-packet one-way delay: 12.585 ms
Loss rate: 2.77%

Run 2: Report of QUIC Cubic — Data Link

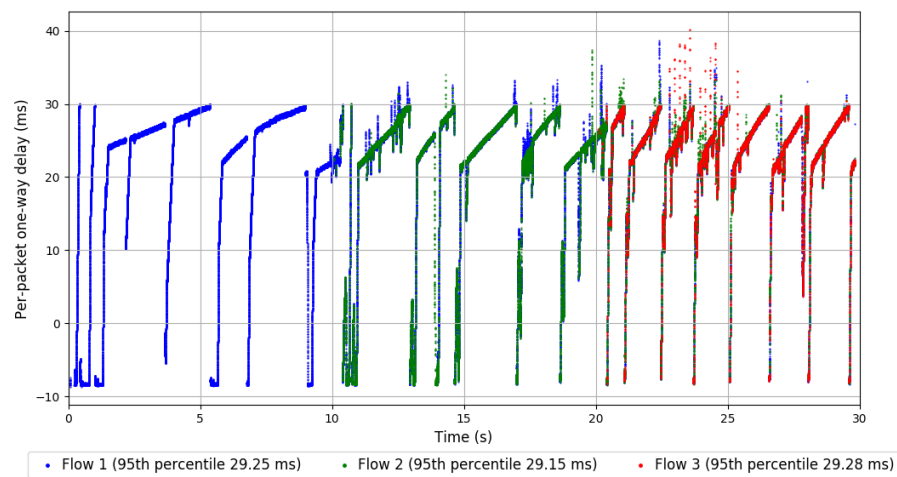
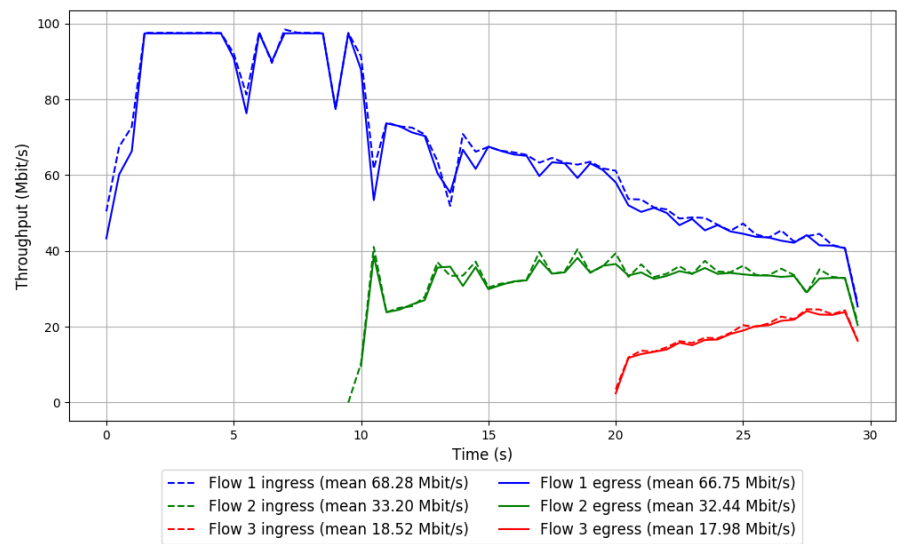


Run 3: Statistics of QUIC Cubic

Start at: 2017-12-05 22:32:12
End at: 2017-12-05 22:32:42
Local clock offset: 3.84 ms
Remote clock offset: -12.489 ms

Below is generated by plot.py at 2017-12-06 01:03:27
Datalink statistics
-- Total of 3 flows:
Average throughput: 94.16 Mbit/s
95th percentile per-packet one-way delay: 29.237 ms
Loss rate: 2.21%
-- Flow 1:
Average throughput: 66.75 Mbit/s
95th percentile per-packet one-way delay: 29.249 ms
Loss rate: 2.12%
-- Flow 2:
Average throughput: 32.44 Mbit/s
95th percentile per-packet one-way delay: 29.147 ms
Loss rate: 2.30%
-- Flow 3:
Average throughput: 17.98 Mbit/s
95th percentile per-packet one-way delay: 29.281 ms
Loss rate: 2.91%

Run 3: Report of QUIC Cubic — Data Link

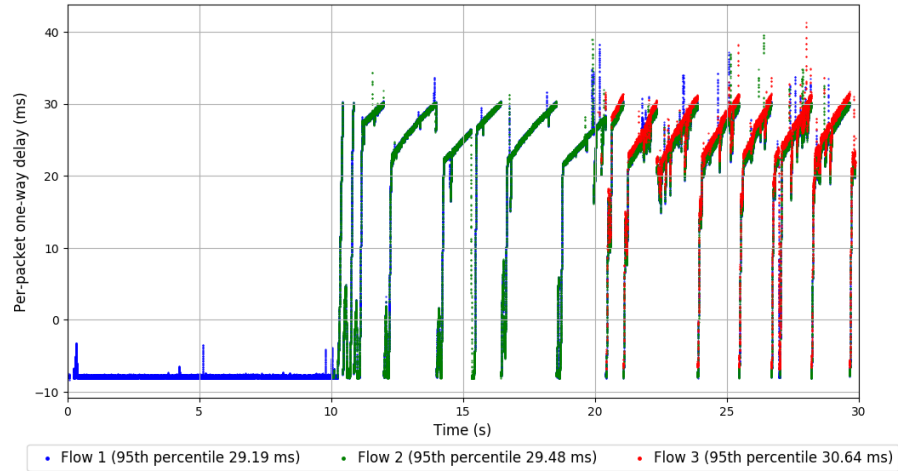
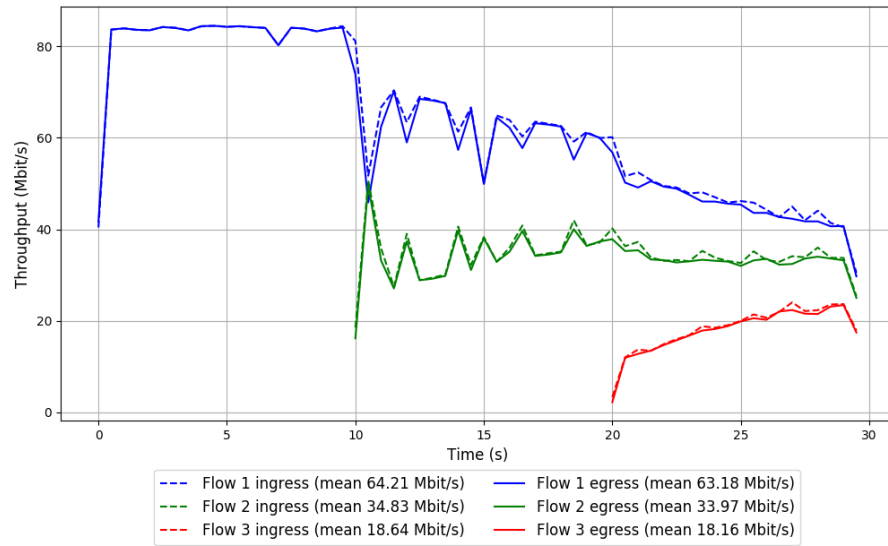


Run 4: Statistics of QUIC Cubic

Start at: 2017-12-05 22:48:39
End at: 2017-12-05 22:49:09
Local clock offset: 4.754 ms
Remote clock offset: -11.365 ms

Below is generated by plot.py at 2017-12-06 01:03:27
Datalink statistics
-- Total of 3 flows:
Average throughput: 91.68 Mbit/s
95th percentile per-packet one-way delay: 29.421 ms
Loss rate: 1.78%
-- Flow 1:
Average throughput: 63.18 Mbit/s
95th percentile per-packet one-way delay: 29.189 ms
Loss rate: 1.51%
-- Flow 2:
Average throughput: 33.97 Mbit/s
95th percentile per-packet one-way delay: 29.482 ms
Loss rate: 2.33%
-- Flow 3:
Average throughput: 18.16 Mbit/s
95th percentile per-packet one-way delay: 30.638 ms
Loss rate: 2.63%

Run 4: Report of QUIC Cubic — Data Link

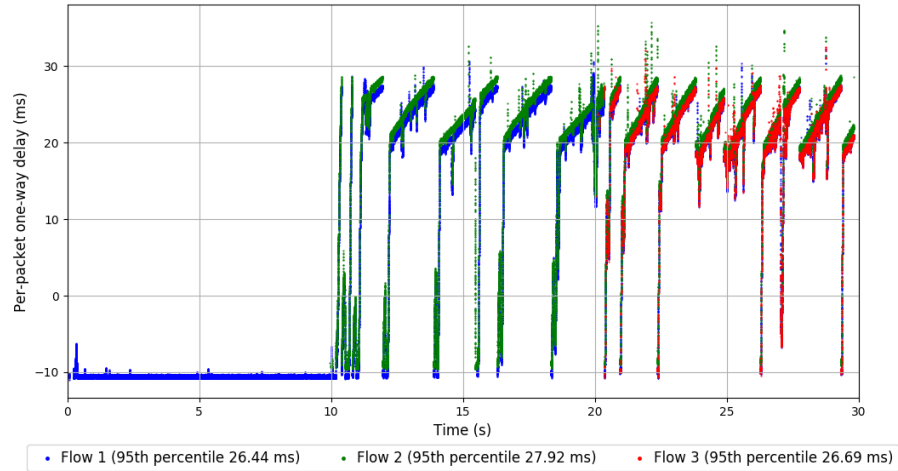
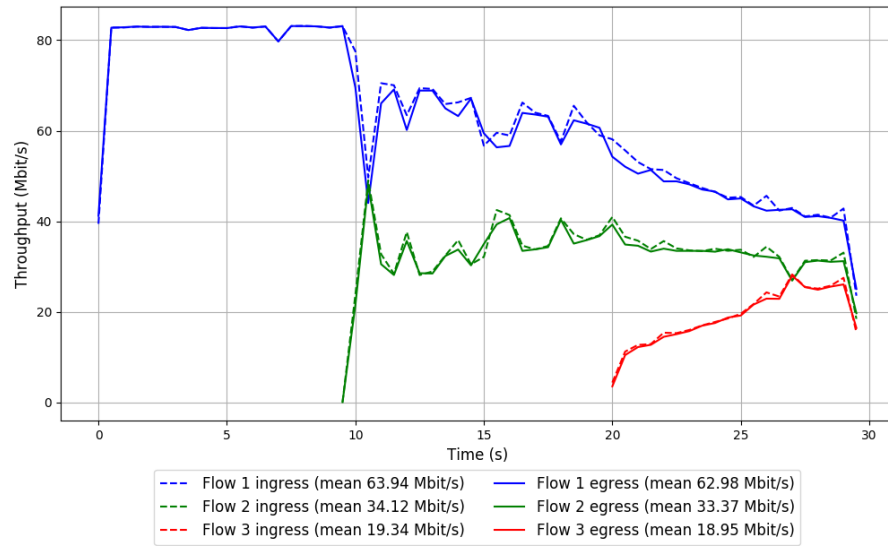


Run 5: Statistics of QUIC Cubic

Start at: 2017-12-05 23:05:11
End at: 2017-12-05 23:05:41
Local clock offset: 5.734 ms
Remote clock offset: -13.274 ms

Below is generated by plot.py at 2017-12-06 01:03:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 91.41 Mbit/s
95th percentile per-packet one-way delay: 26.935 ms
Loss rate: 1.59%
-- Flow 1:
Average throughput: 62.98 Mbit/s
95th percentile per-packet one-way delay: 26.436 ms
Loss rate: 1.40%
-- Flow 2:
Average throughput: 33.37 Mbit/s
95th percentile per-packet one-way delay: 27.921 ms
Loss rate: 2.01%
-- Flow 3:
Average throughput: 18.95 Mbit/s
95th percentile per-packet one-way delay: 26.691 ms
Loss rate: 1.93%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

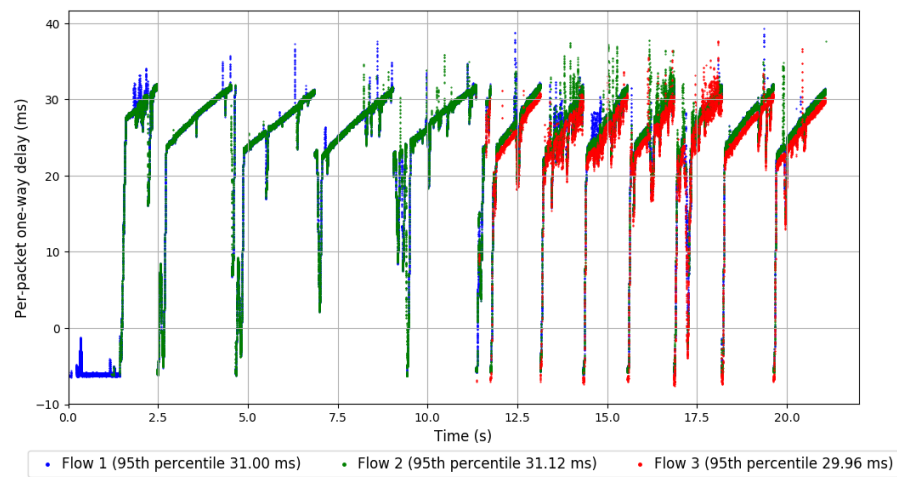
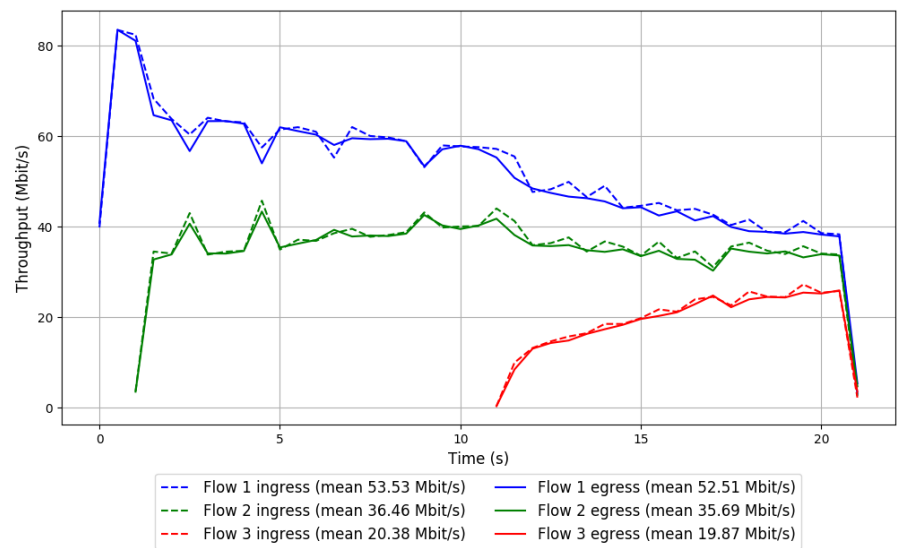
Start at: 2017-12-05 23:21:38

End at: 2017-12-05 23:22:08

Local clock offset: 3.563 ms

Remote clock offset: -12.227 ms

Run 6: Report of QUIC Cubic — Data Link

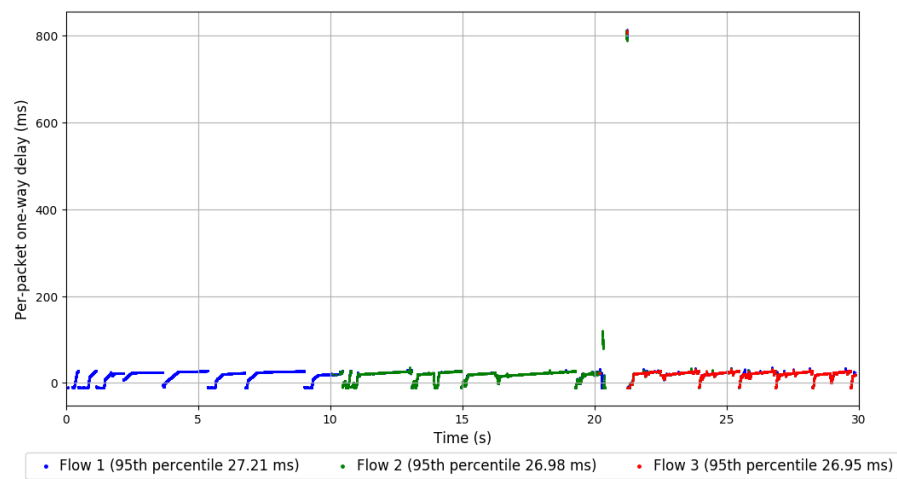
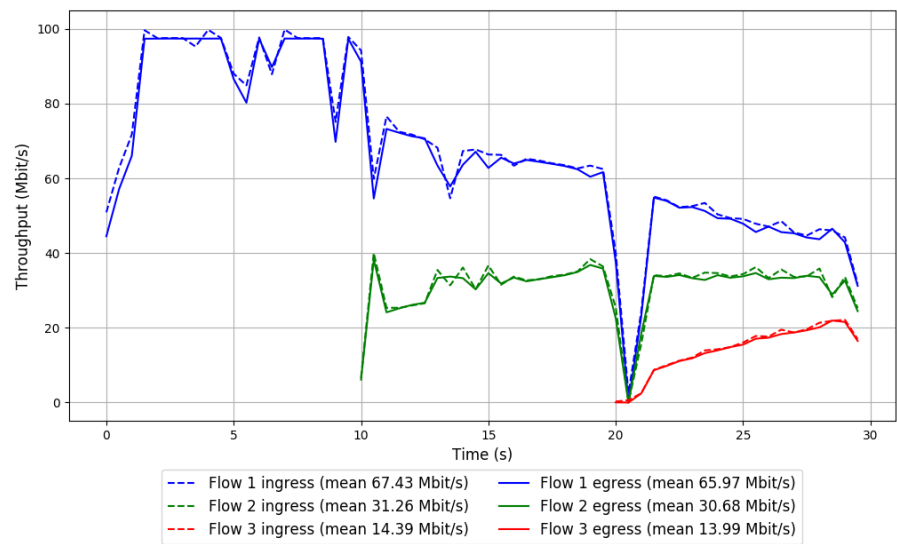


Run 7: Statistics of QUIC Cubic

Start at: 2017-12-05 23:37:55
End at: 2017-12-05 23:38:25
Local clock offset: 6.244 ms
Remote clock offset: -11.799 ms

Below is generated by plot.py at 2017-12-06 01:03:52
Datalink statistics
-- Total of 3 flows:
Average throughput: 90.87 Mbit/s
95th percentile per-packet one-way delay: 27.143 ms
Loss rate: 2.04%
-- Flow 1:
Average throughput: 65.97 Mbit/s
95th percentile per-packet one-way delay: 27.209 ms
Loss rate: 2.05%
-- Flow 2:
Average throughput: 30.68 Mbit/s
95th percentile per-packet one-way delay: 26.977 ms
Loss rate: 1.87%
-- Flow 3:
Average throughput: 13.99 Mbit/s
95th percentile per-packet one-way delay: 26.945 ms
Loss rate: 2.75%

Run 7: Report of QUIC Cubic — Data Link

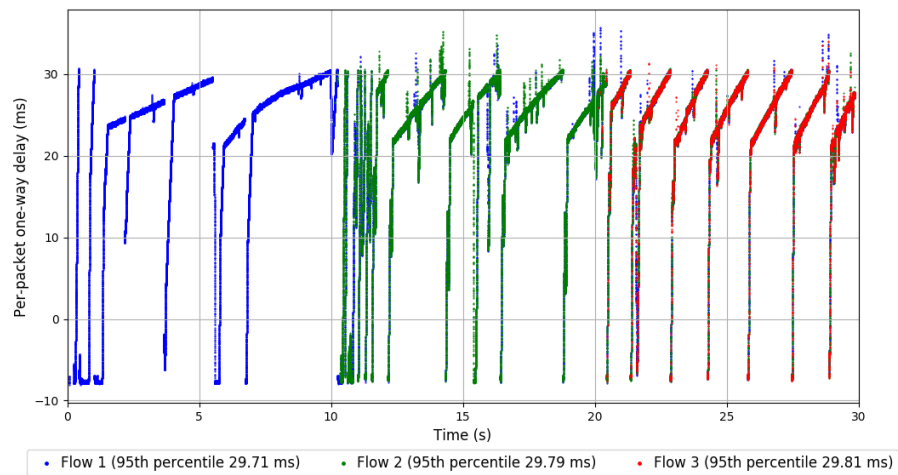
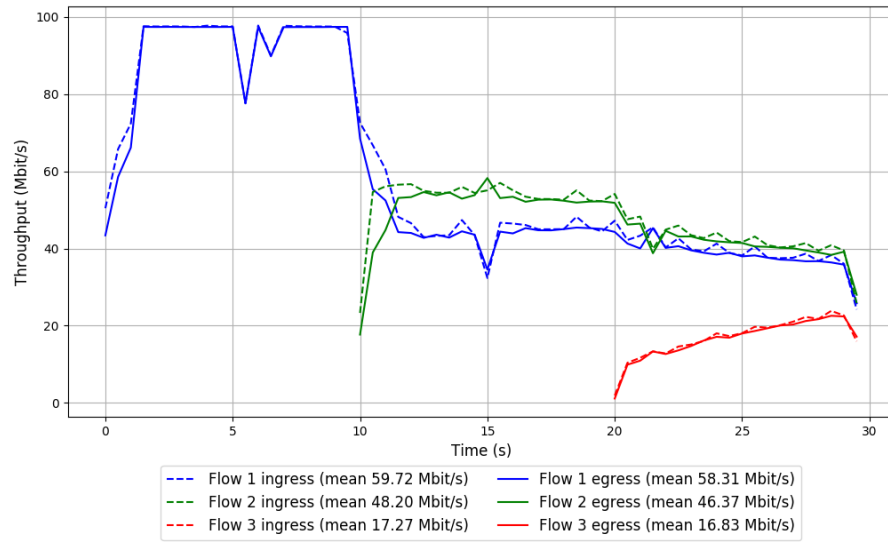


Run 8: Statistics of QUIC Cubic

Start at: 2017-12-05 23:54:31
End at: 2017-12-05 23:55:01
Local clock offset: 5.677 ms
Remote clock offset: -10.869 ms

Below is generated by plot.py at 2017-12-06 01:04:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 94.51 Mbit/s
95th percentile per-packet one-way delay: 29.742 ms
Loss rate: 2.76%
-- Flow 1:
Average throughput: 58.31 Mbit/s
95th percentile per-packet one-way delay: 29.706 ms
Loss rate: 2.26%
-- Flow 2:
Average throughput: 46.37 Mbit/s
95th percentile per-packet one-way delay: 29.793 ms
Loss rate: 3.76%
-- Flow 3:
Average throughput: 16.83 Mbit/s
95th percentile per-packet one-way delay: 29.810 ms
Loss rate: 2.49%

Run 8: Report of QUIC Cubic — Data Link

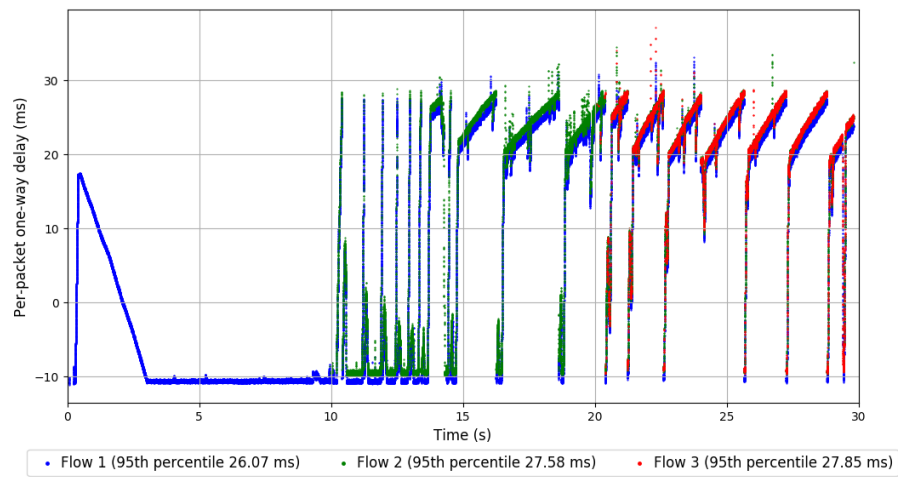
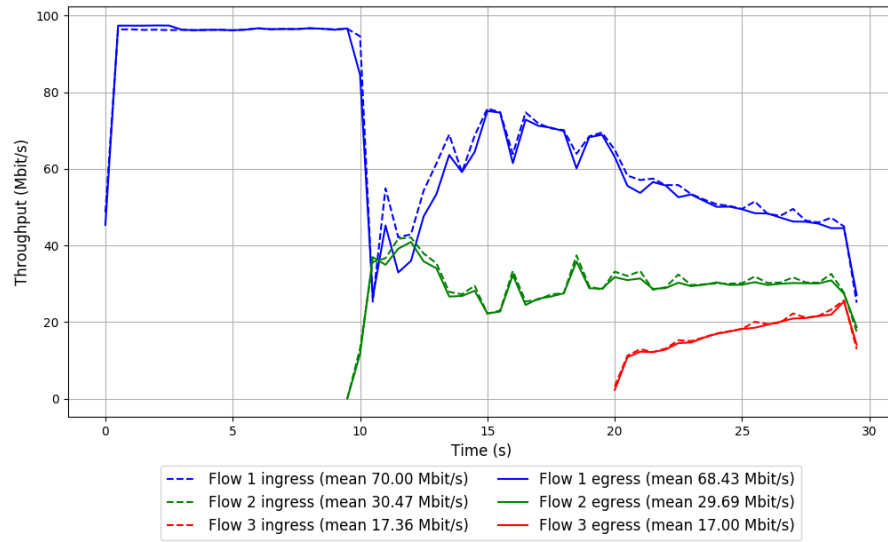


Run 9: Statistics of QUIC Cubic

Start at: 2017-12-06 00:10:52
End at: 2017-12-06 00:11:22
Local clock offset: 6.179 ms
Remote clock offset: -13.888 ms

Below is generated by plot.py at 2017-12-06 01:04:28
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.74 Mbit/s
95th percentile per-packet one-way delay: 26.682 ms
Loss rate: 2.19%
-- Flow 1:
Average throughput: 68.43 Mbit/s
95th percentile per-packet one-way delay: 26.070 ms
Loss rate: 2.14%
-- Flow 2:
Average throughput: 29.69 Mbit/s
95th percentile per-packet one-way delay: 27.580 ms
Loss rate: 2.38%
-- Flow 3:
Average throughput: 17.00 Mbit/s
95th percentile per-packet one-way delay: 27.847 ms
Loss rate: 2.12%

Run 9: Report of QUIC Cubic — Data Link

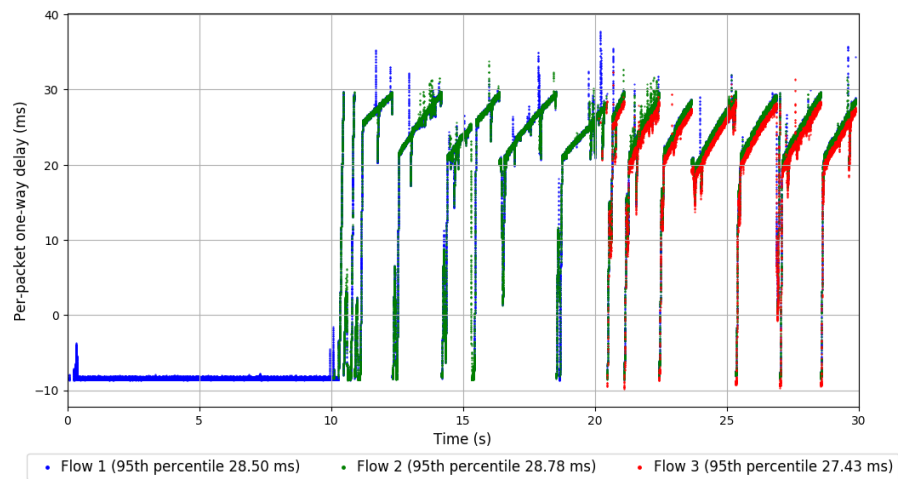
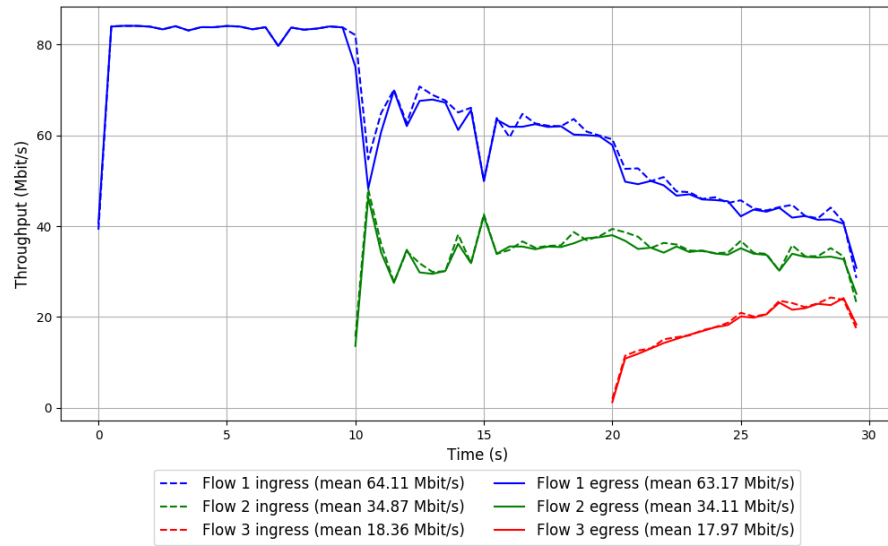


Run 10: Statistics of QUIC Cubic

Start at: 2017-12-06 00:27:23
End at: 2017-12-06 00:27:53
Local clock offset: 6.286 ms
Remote clock offset: -12.51 ms

Below is generated by plot.py at 2017-12-06 01:04:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 91.66 Mbit/s
95th percentile per-packet one-way delay: 28.549 ms
Loss rate: 1.55%
-- Flow 1:
Average throughput: 63.17 Mbit/s
95th percentile per-packet one-way delay: 28.495 ms
Loss rate: 1.33%
-- Flow 2:
Average throughput: 34.11 Mbit/s
95th percentile per-packet one-way delay: 28.776 ms
Loss rate: 2.02%
-- Flow 3:
Average throughput: 17.97 Mbit/s
95th percentile per-packet one-way delay: 27.432 ms
Loss rate: 2.11%

Run 10: Report of QUIC Cubic — Data Link

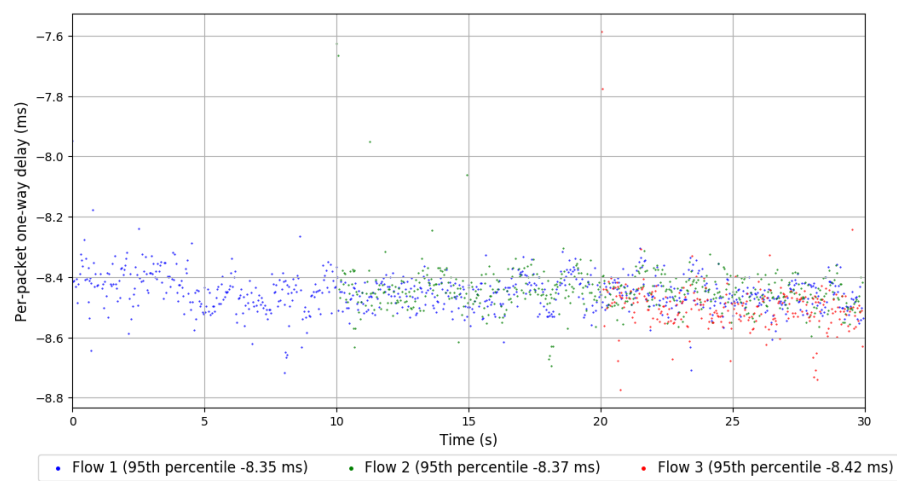
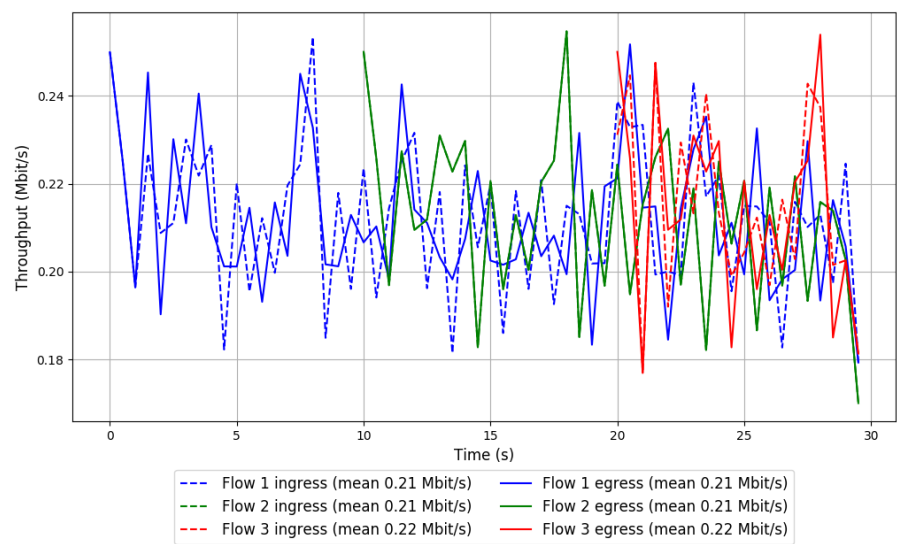


```
Run 1: Statistics of SReAM

Start at: 2017-12-05 21:53:13
End at: 2017-12-05 21:53:43
Local clock offset: 5.24 ms
Remote clock offset: -13.04 ms

# Below is generated by plot.py at 2017-12-06 01:04:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: -8.362 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: -8.354 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: -8.365 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: -8.418 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

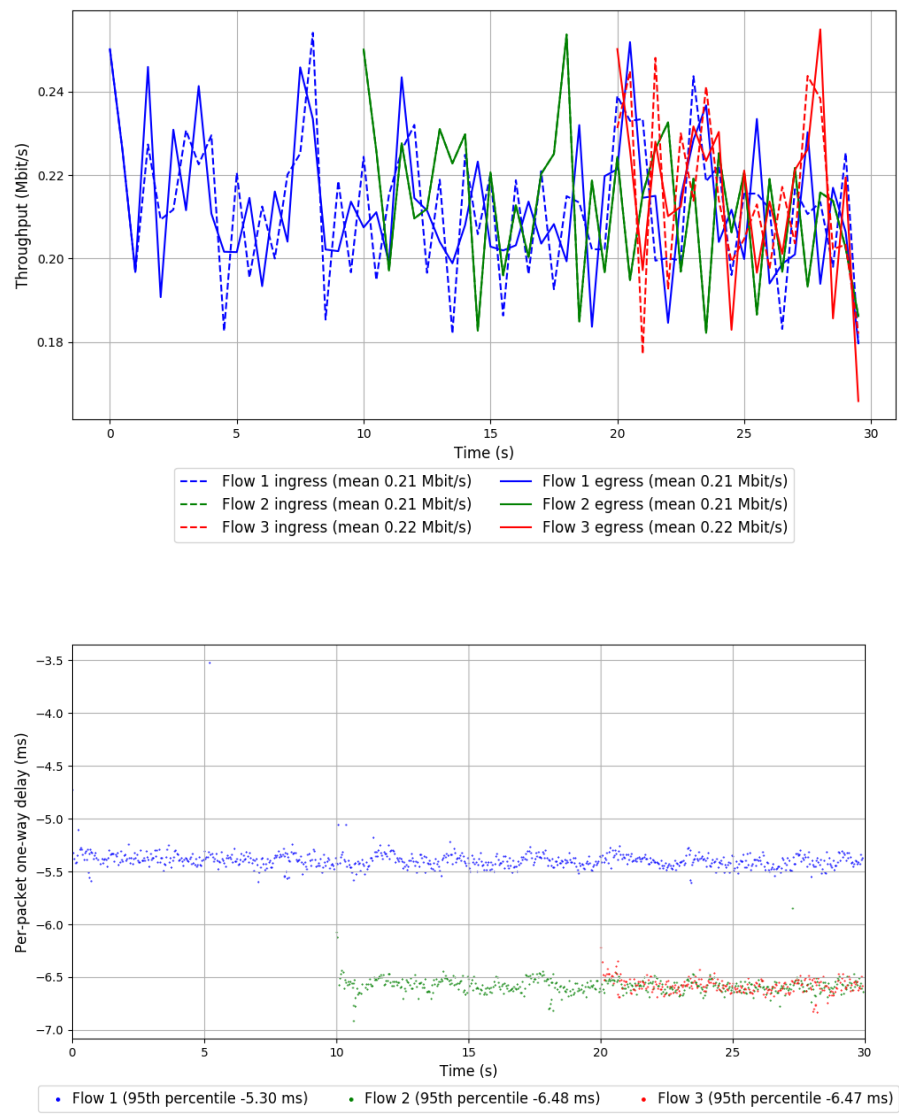


```
Run 2: Statistics of SReAM

Start at: 2017-12-05 22:09:51
End at: 2017-12-05 22:10:21
Local clock offset: 3.304 ms
Remote clock offset: -11.637 ms

# Below is generated by plot.py at 2017-12-06 01:04:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: -5.323 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: -5.304 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: -6.483 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: -6.472 ms
Loss rate: 0.00%
```


Run 2: Report of SReAM — Data Link

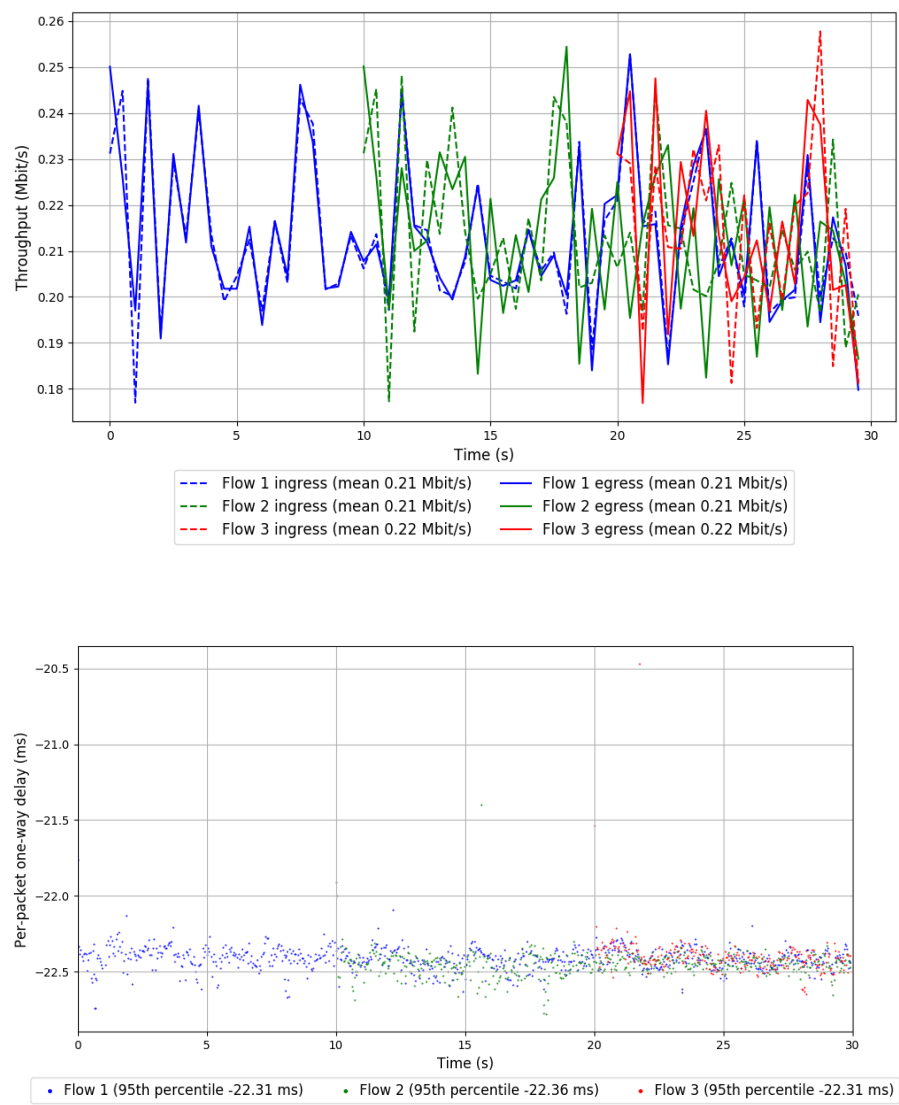


Run 3: Statistics of SReAM

Start at: 2017-12-05 22:26:24
End at: 2017-12-05 22:26:54
Local clock offset: 19.606 ms
Remote clock offset: -10.872 ms

Below is generated by plot.py at 2017-12-06 01:04:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: -22.315 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: -22.306 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: -22.364 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: -22.309 ms
Loss rate: 0.00%

Run 3: Report of SReAM — Data Link

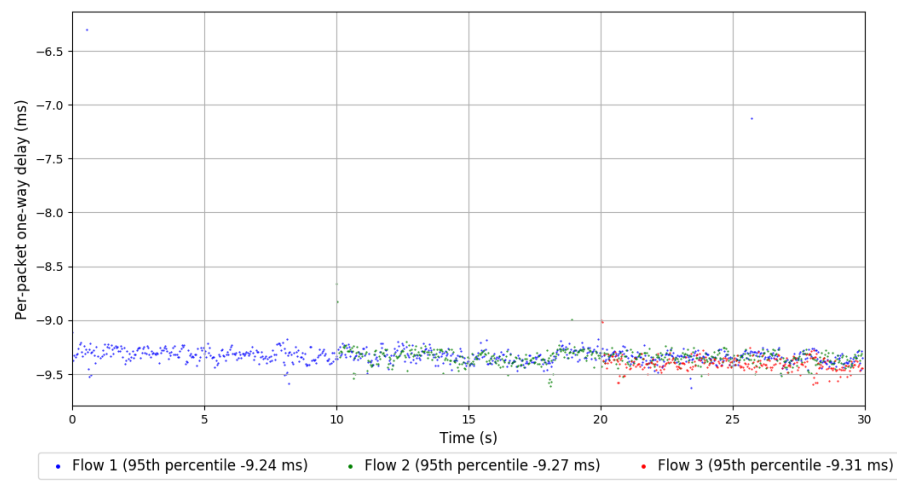
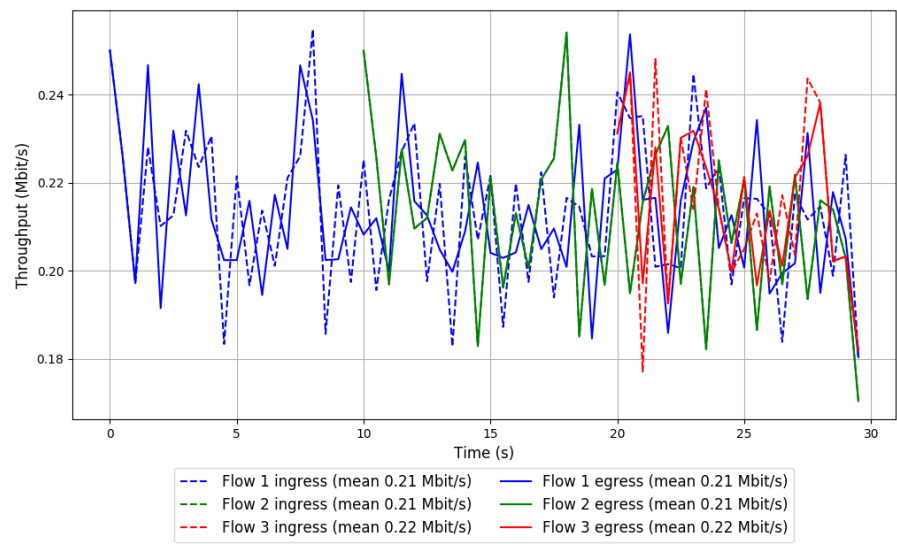


Run 4: Statistics of SReAM

Start at: 2017-12-05 22:42:51
End at: 2017-12-05 22:43:21
Local clock offset: 5.582 ms
Remote clock offset: -11.897 ms

Below is generated by plot.py at 2017-12-06 01:04:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: -9.251 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: -9.239 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: -9.265 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: -9.314 ms
Loss rate: 0.00%

Run 4: Report of SReAM — Data Link

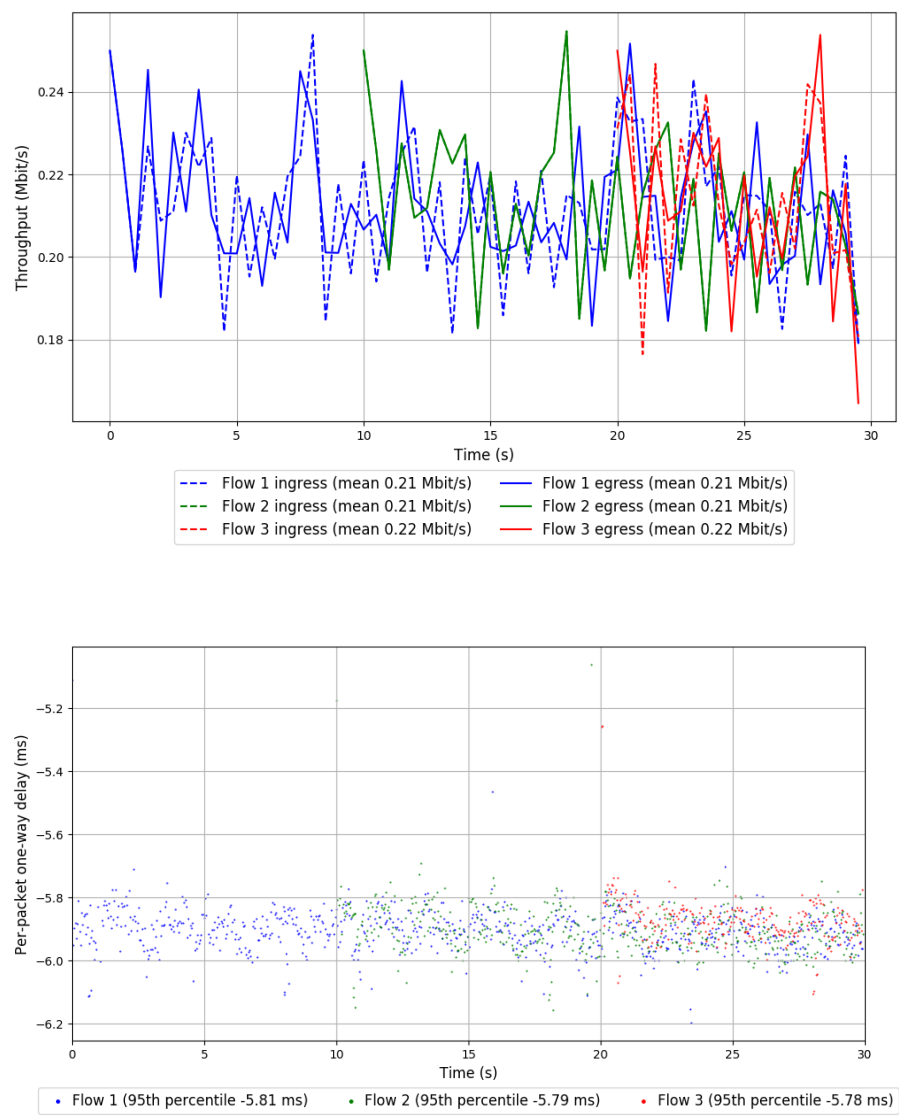


Run 5: Statistics of SReAM

Start at: 2017-12-05 22:59:22
End at: 2017-12-05 22:59:52
Local clock offset: 3.835 ms
Remote clock offset: -11.534 ms

Below is generated by plot.py at 2017-12-06 01:04:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: -5.801 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: -5.813 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: -5.794 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: -5.782 ms
Loss rate: 0.00%

Run 5: Report of SReAM — Data Link

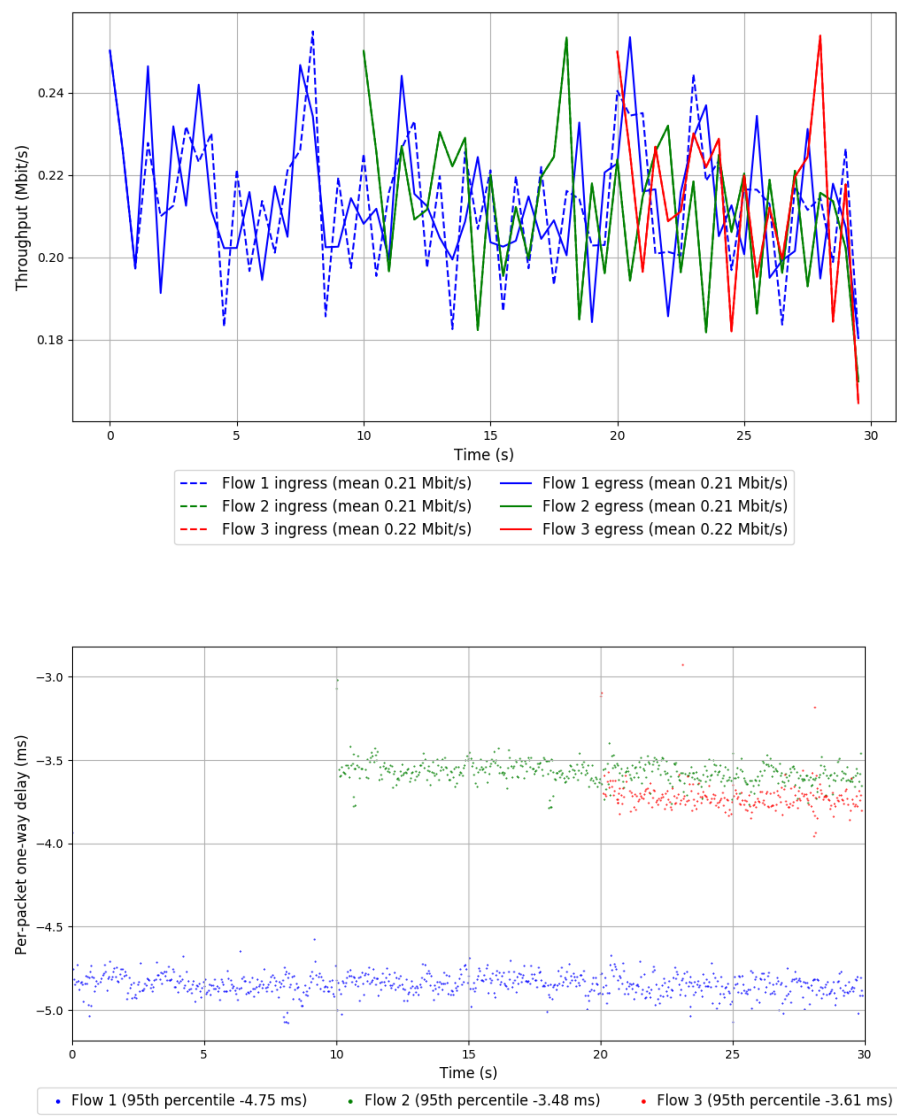


Run 6: Statistics of SReAM

Start at: 2017-12-05 23:15:50
End at: 2017-12-05 23:16:20
Local clock offset: 1.91 ms
Remote clock offset: -11.261 ms

Below is generated by plot.py at 2017-12-06 01:04:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: -3.510 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: -4.748 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: -3.484 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: -3.607 ms
Loss rate: 0.00%

Run 6: Report of SReAM — Data Link

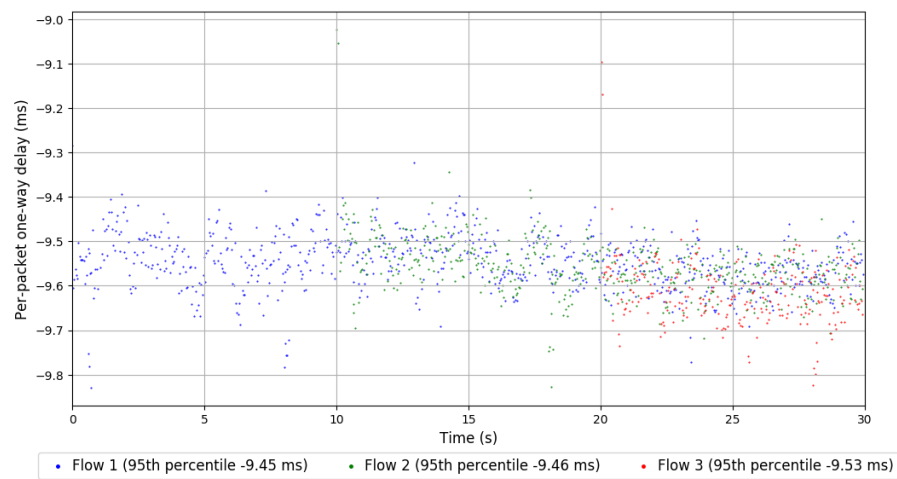
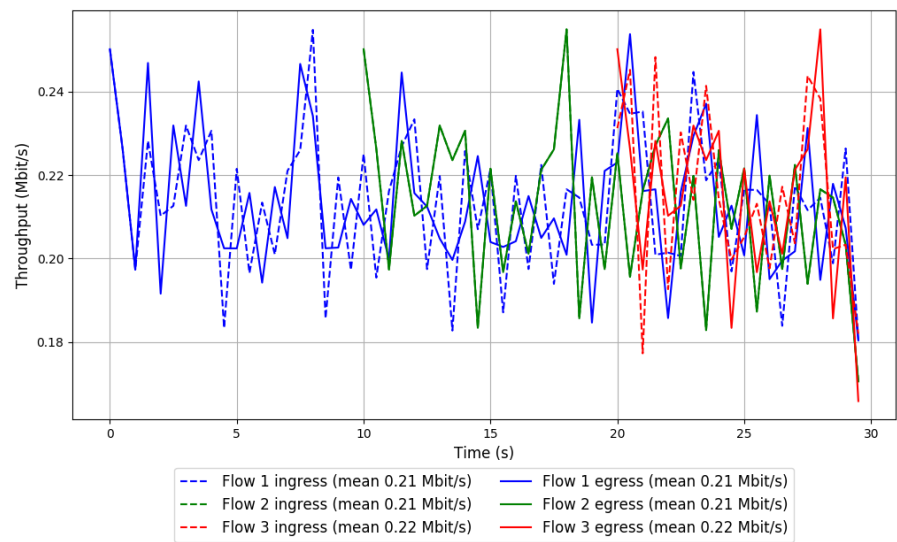


Run 7: Statistics of SReAM

Start at: 2017-12-05 23:32:10
End at: 2017-12-05 23:32:40
Local clock offset: 6.342 ms
Remote clock offset: -11.233 ms

Below is generated by plot.py at 2017-12-06 01:04:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: -9.458 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: -9.448 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: -9.464 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: -9.527 ms
Loss rate: 0.00%

Run 7: Report of SReAM — Data Link

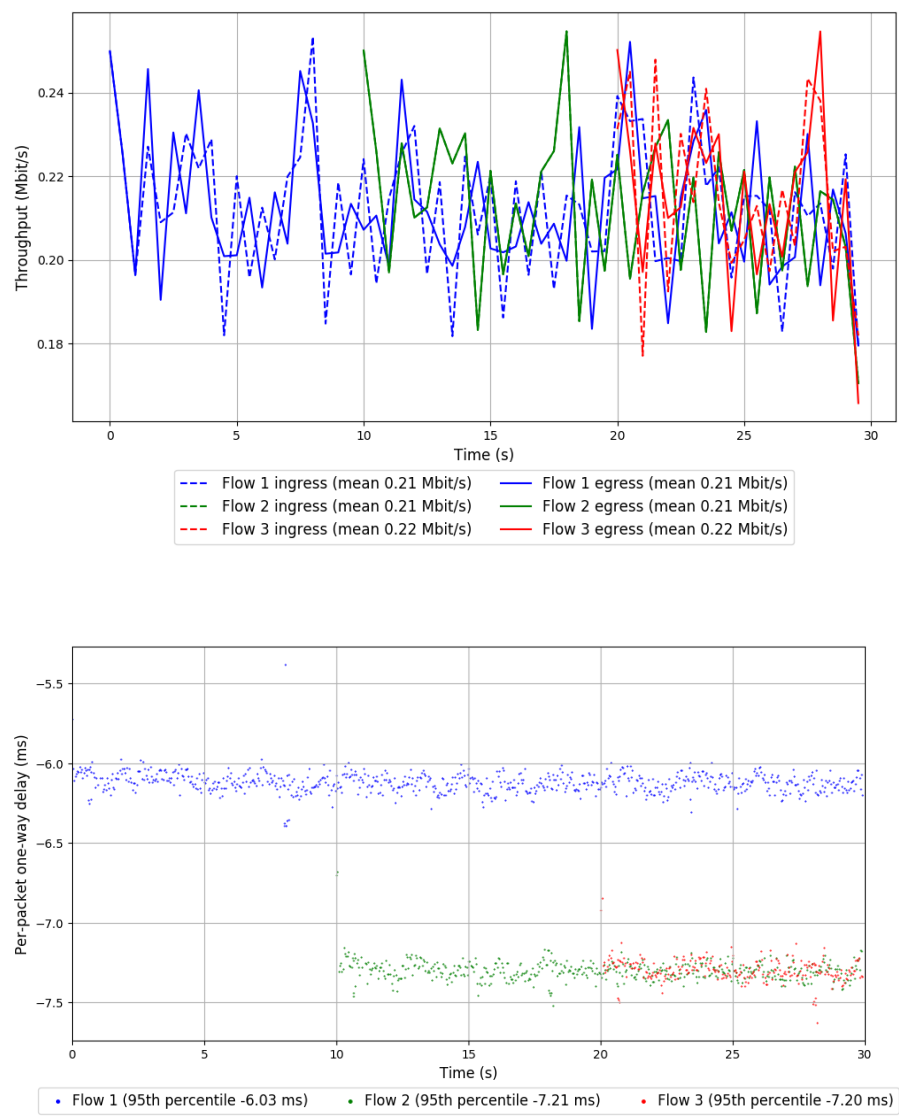


Run 8: Statistics of SReAM

Start at: 2017-12-05 23:48:43
End at: 2017-12-05 23:49:13
Local clock offset: 2.844 ms
Remote clock offset: -11.89 ms

Below is generated by plot.py at 2017-12-06 01:04:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: -6.047 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: -6.033 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: -7.215 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: -7.202 ms
Loss rate: 0.00%

Run 8: Report of SReAM — Data Link

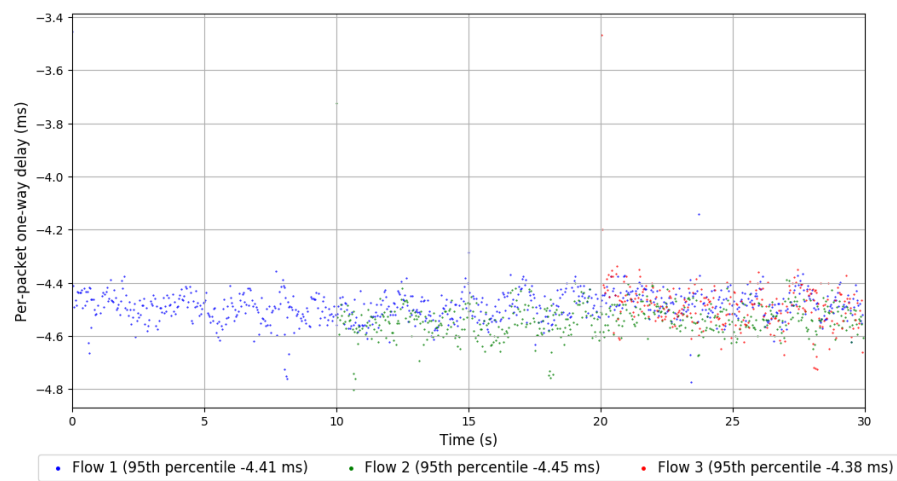
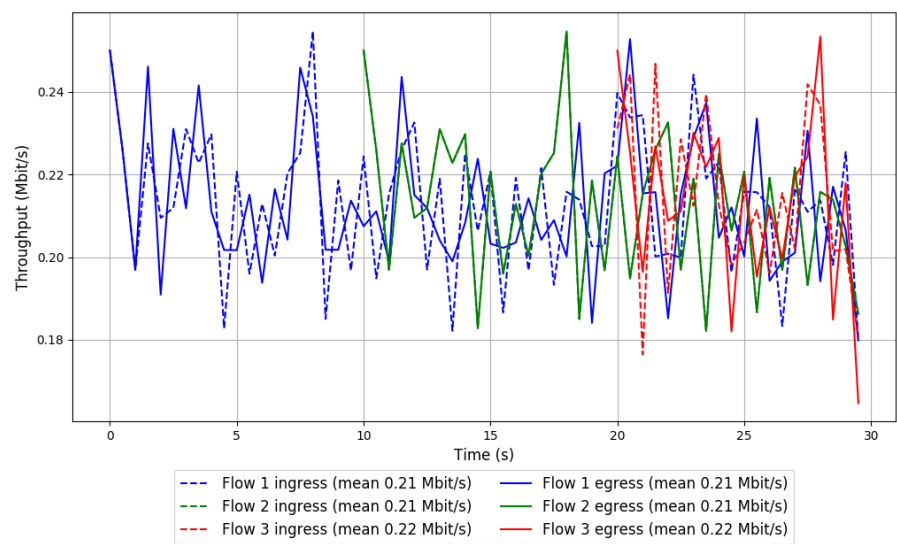


Run 9: Statistics of SReAM

Start at: 2017-12-06 00:05:06
End at: 2017-12-06 00:05:36
Local clock offset: 2.371 ms
Remote clock offset: -12.139 ms

Below is generated by plot.py at 2017-12-06 01:04:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: -4.410 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: -4.408 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: -4.452 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: -4.377 ms
Loss rate: 0.00%

Run 9: Report of SReAM — Data Link

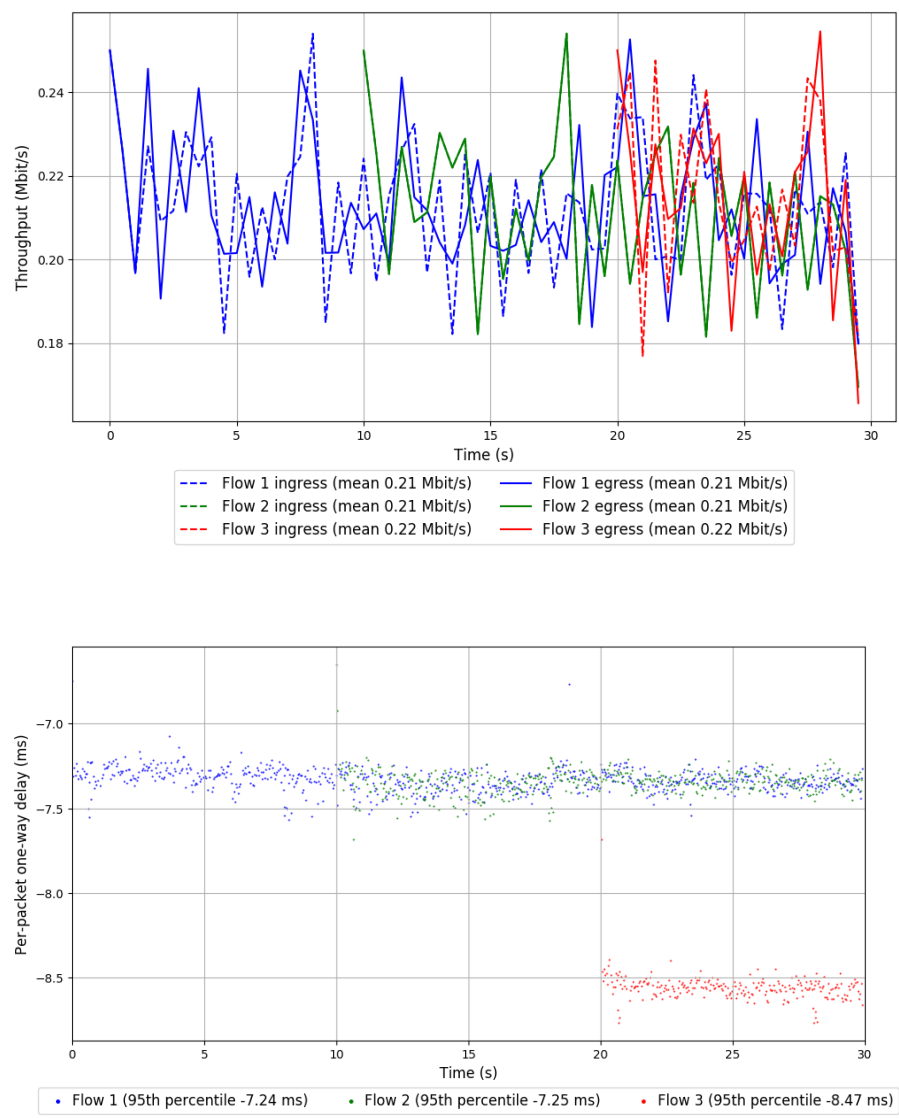


Run 10: Statistics of SCReAM

Start at: 2017-12-06 00:21:38
End at: 2017-12-06 00:22:08
Local clock offset: 3.83 ms
Remote clock offset: -13.84 ms

Below is generated by plot.py at 2017-12-06 01:04:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: -7.245 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: -7.237 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: -7.250 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: -8.473 ms
Loss rate: 0.00%

Run 10: Report of SCReAM — Data Link

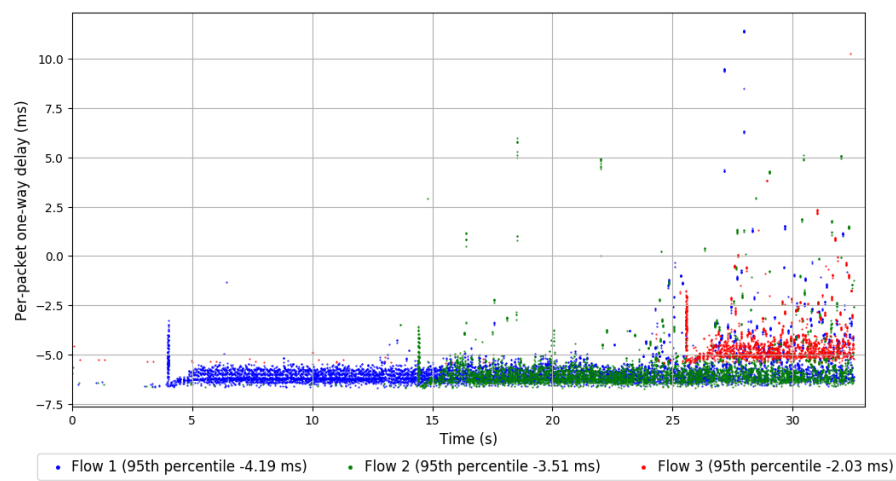
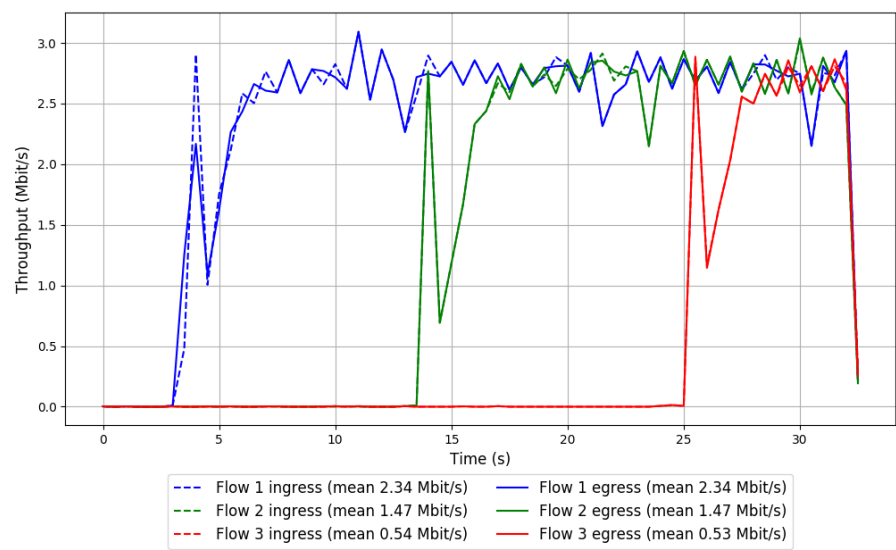


Run 1: Statistics of WebRTC media

Start at: 2017-12-05 21:50:53
End at: 2017-12-05 21:51:23
Local clock offset: 3.933 ms
Remote clock offset: -11.013 ms

Below is generated by plot.py at 2017-12-06 01:04:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.34 Mbit/s
95th percentile per-packet one-way delay: -3.417 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 2.34 Mbit/s
95th percentile per-packet one-way delay: -4.193 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.47 Mbit/s
95th percentile per-packet one-way delay: -3.512 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.53 Mbit/s
95th percentile per-packet one-way delay: -2.029 ms
Loss rate: 0.16%

Run 1: Report of WebRTC media — Data Link

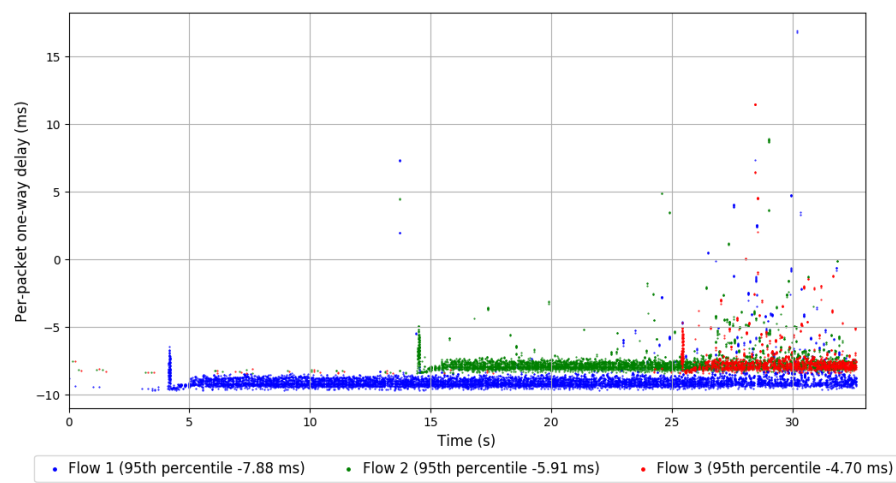
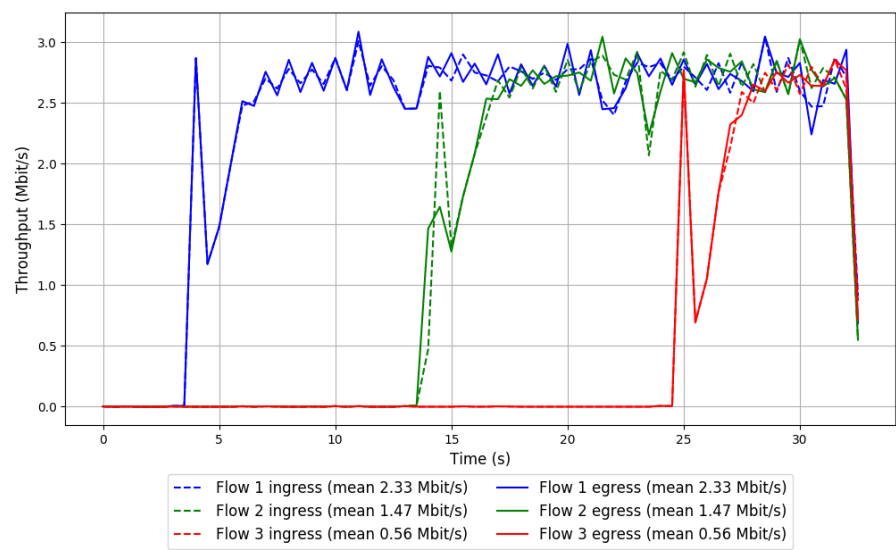


Run 2: Statistics of WebRTC media

Start at: 2017-12-05 22:07:32
End at: 2017-12-05 22:08:02
Local clock offset: 4.503 ms
Remote clock offset: -13.133 ms

Below is generated by plot.py at 2017-12-06 01:04:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.34 Mbit/s
95th percentile per-packet one-way delay: -6.434 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.33 Mbit/s
95th percentile per-packet one-way delay: -7.885 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.47 Mbit/s
95th percentile per-packet one-way delay: -5.911 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.56 Mbit/s
95th percentile per-packet one-way delay: -4.701 ms
Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link

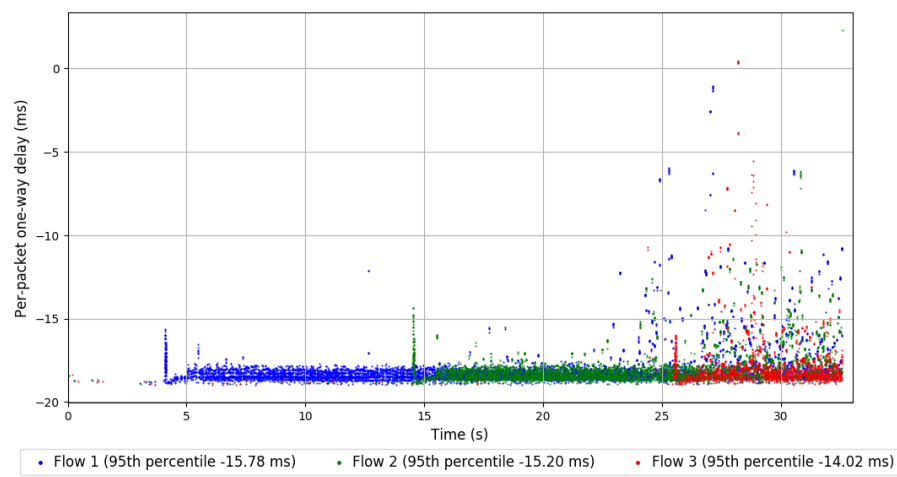
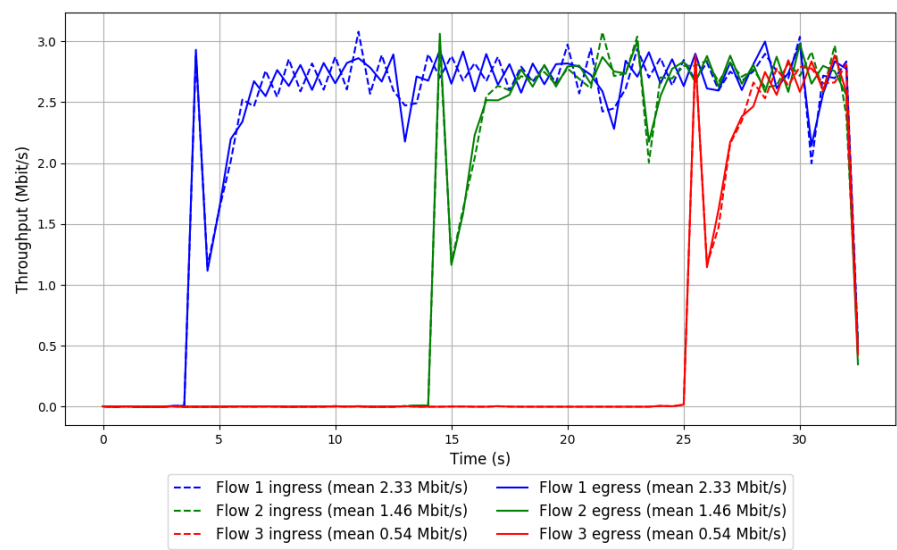


Run 3: Statistics of WebRTC media

Start at: 2017-12-05 22:24:05
End at: 2017-12-05 22:24:35
Local clock offset: 13.865 ms
Remote clock offset: -12.821 ms

Below is generated by plot.py at 2017-12-06 01:04:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.32 Mbit/s
95th percentile per-packet one-way delay: -15.351 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.33 Mbit/s
95th percentile per-packet one-way delay: -15.778 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.46 Mbit/s
95th percentile per-packet one-way delay: -15.199 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.54 Mbit/s
95th percentile per-packet one-way delay: -14.016 ms
Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link

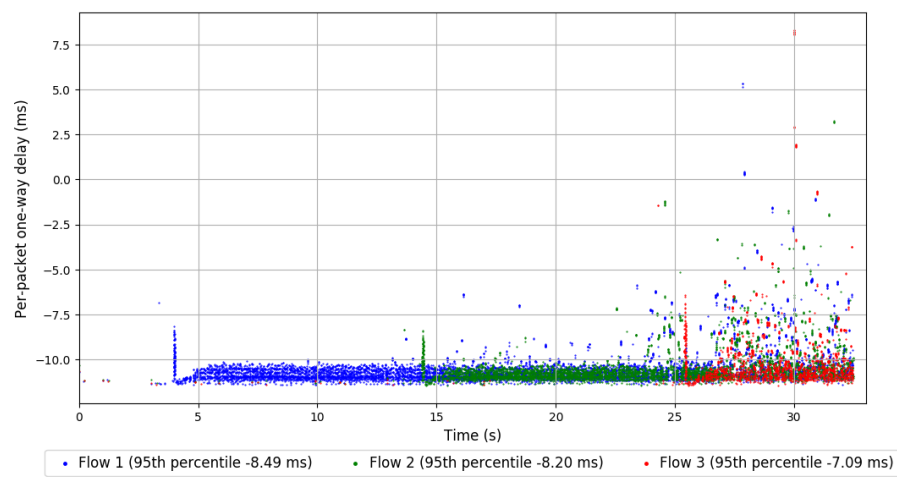
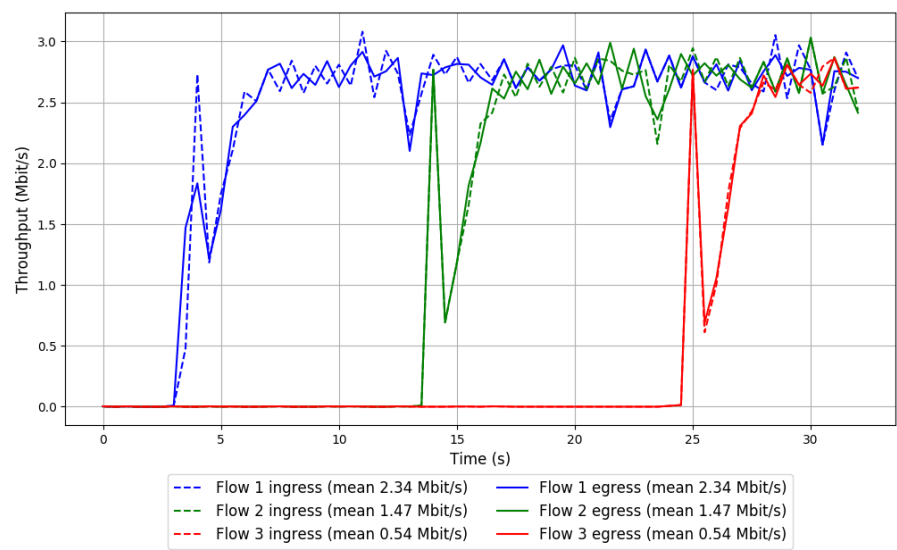


Run 4: Statistics of WebRTC media

Start at: 2017-12-05 22:40:34
End at: 2017-12-05 22:41:04
Local clock offset: 6.53 ms
Remote clock offset: -12.612 ms

Below is generated by plot.py at 2017-12-06 01:04:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.35 Mbit/s
95th percentile per-packet one-way delay: -8.090 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.34 Mbit/s
95th percentile per-packet one-way delay: -8.487 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.47 Mbit/s
95th percentile per-packet one-way delay: -8.195 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.54 Mbit/s
95th percentile per-packet one-way delay: -7.094 ms
Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link

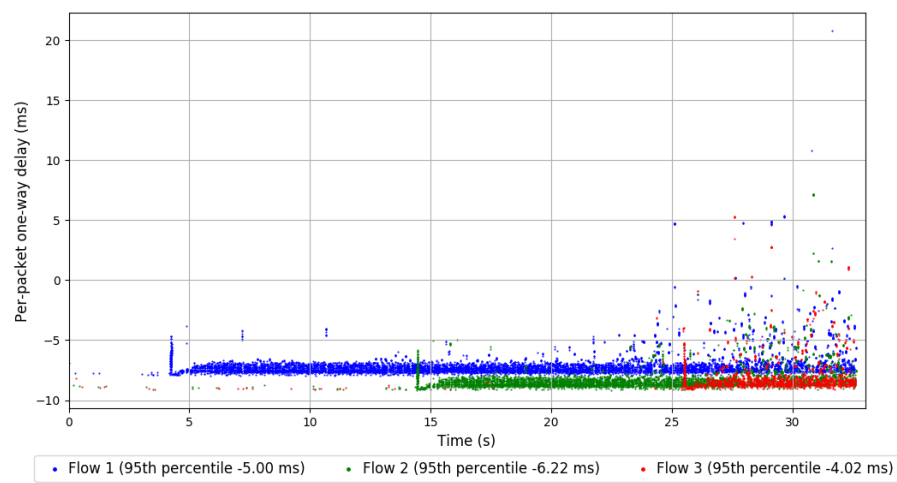
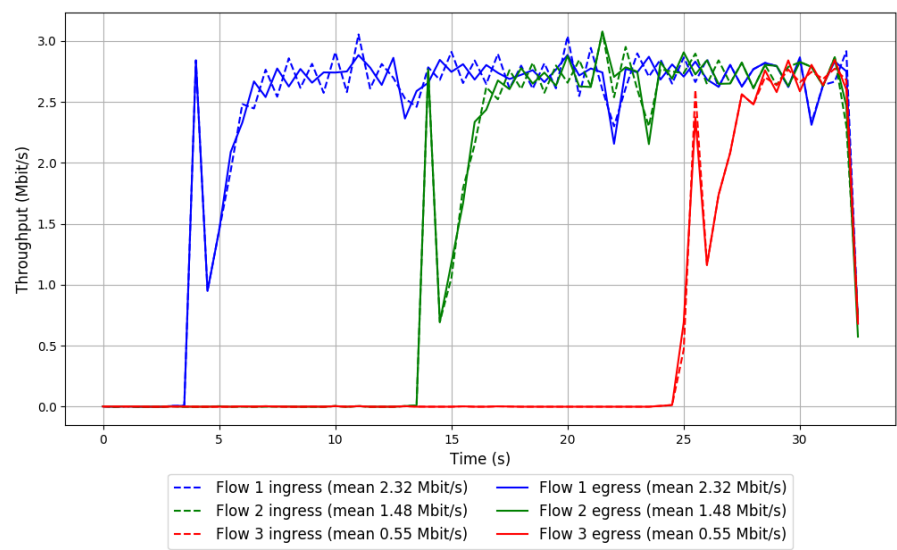


Run 5: Statistics of WebRTC media

Start at: 2017-12-05 22:57:05
End at: 2017-12-05 22:57:35
Local clock offset: 5.03 ms
Remote clock offset: -11.998 ms

Below is generated by plot.py at 2017-12-06 01:04:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.34 Mbit/s
95th percentile per-packet one-way delay: -5.263 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.32 Mbit/s
95th percentile per-packet one-way delay: -4.998 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.48 Mbit/s
95th percentile per-packet one-way delay: -6.222 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.55 Mbit/s
95th percentile per-packet one-way delay: -4.024 ms
Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

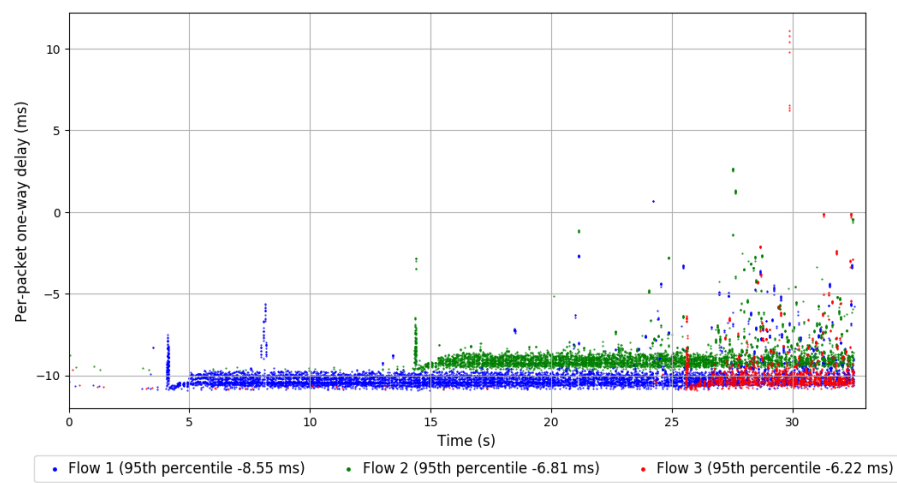
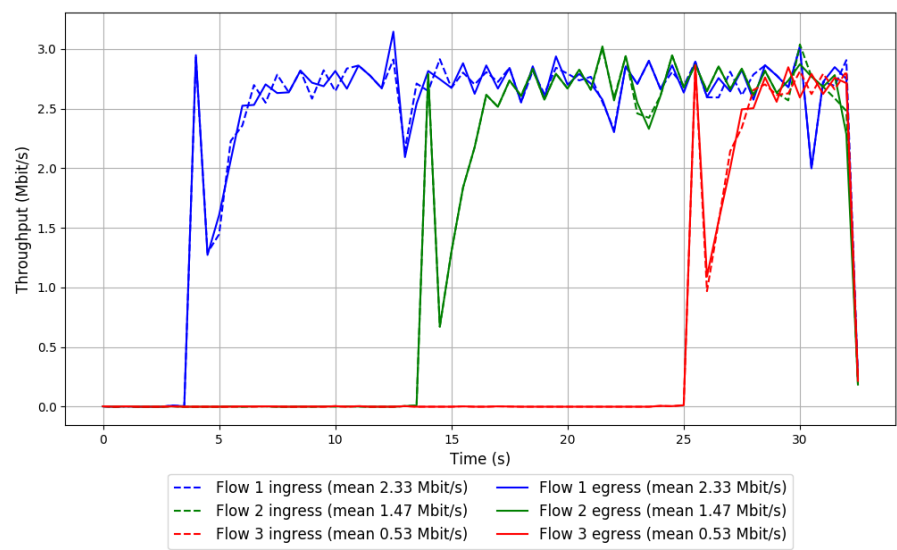


Run 6: Statistics of WebRTC media

Start at: 2017-12-05 23:13:30
End at: 2017-12-05 23:14:00
Local clock offset: 7.188 ms
Remote clock offset: -11.69 ms

Below is generated by plot.py at 2017-12-06 01:04:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.33 Mbit/s
95th percentile per-packet one-way delay: -7.315 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.33 Mbit/s
95th percentile per-packet one-way delay: -8.550 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.47 Mbit/s
95th percentile per-packet one-way delay: -6.806 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.53 Mbit/s
95th percentile per-packet one-way delay: -6.216 ms
Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link

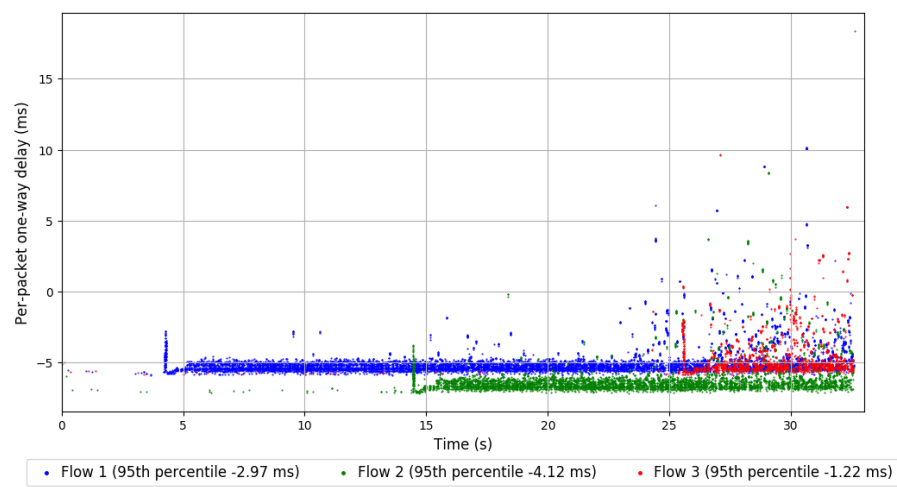
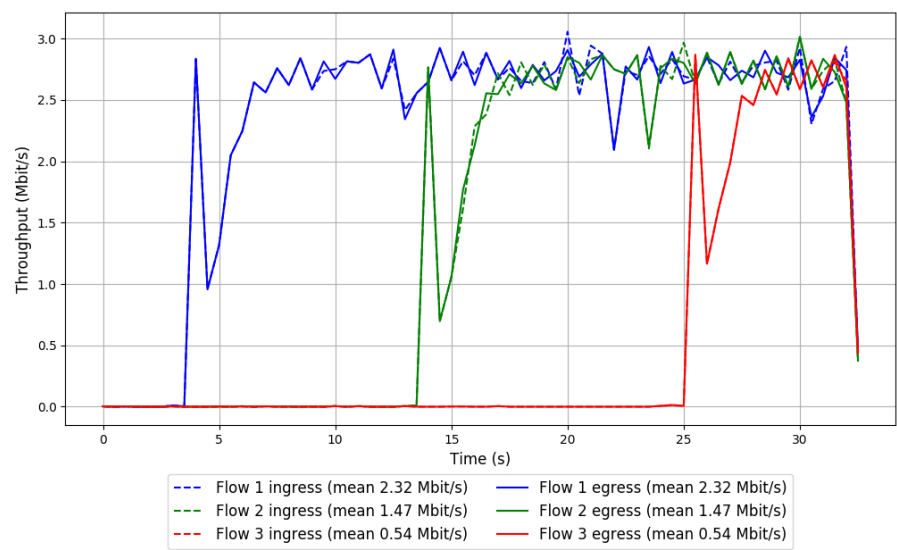


Run 7: Statistics of WebRTC media

Start at: 2017-12-05 23:29:53
End at: 2017-12-05 23:30:23
Local clock offset: 3.243 ms
Remote clock offset: -11.603 ms

Below is generated by plot.py at 2017-12-06 01:04:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.31 Mbit/s
95th percentile per-packet one-way delay: -2.807 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.32 Mbit/s
95th percentile per-packet one-way delay: -2.966 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.47 Mbit/s
95th percentile per-packet one-way delay: -4.122 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.54 Mbit/s
95th percentile per-packet one-way delay: -1.218 ms
Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link

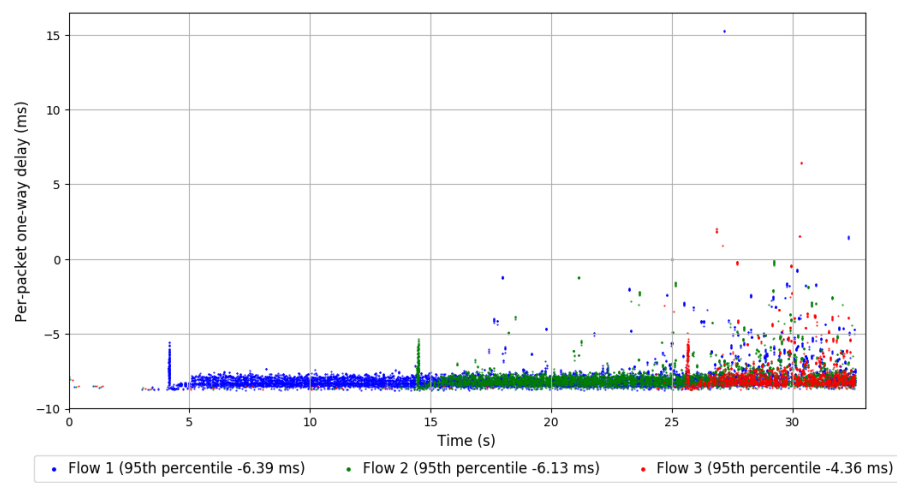
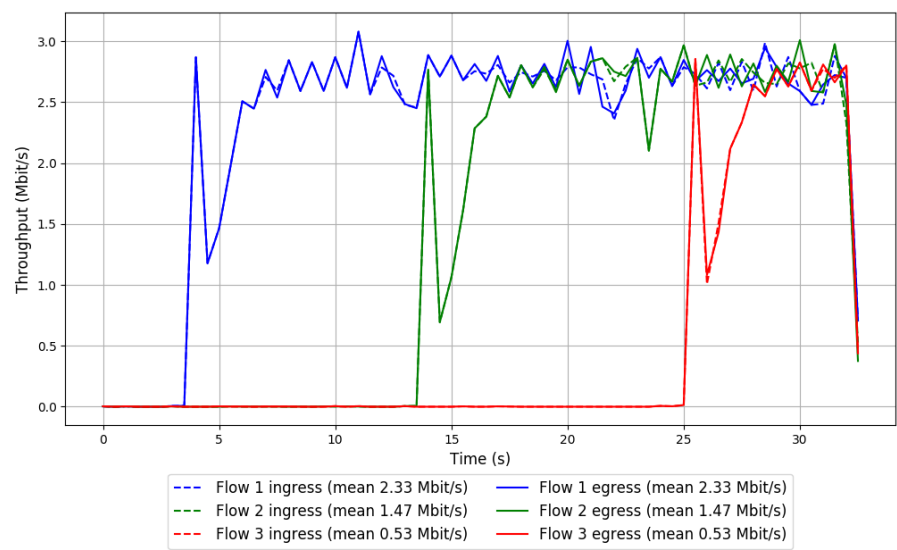


Run 8: Statistics of WebRTC media

Start at: 2017-12-05 23:46:26
End at: 2017-12-05 23:46:56
Local clock offset: 4.568 ms
Remote clock offset: -12.453 ms

Below is generated by plot.py at 2017-12-06 01:04:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.32 Mbit/s
95th percentile per-packet one-way delay: -5.999 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.33 Mbit/s
95th percentile per-packet one-way delay: -6.388 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.47 Mbit/s
95th percentile per-packet one-way delay: -6.128 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.53 Mbit/s
95th percentile per-packet one-way delay: -4.355 ms
Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link

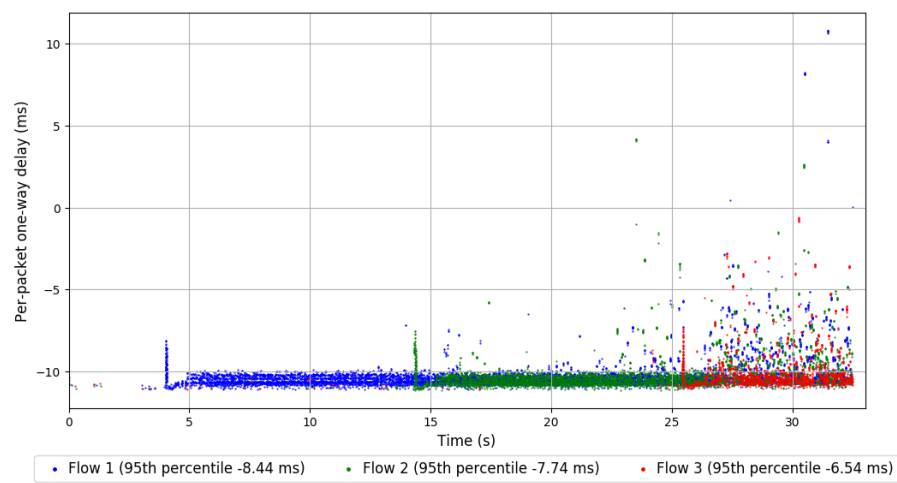
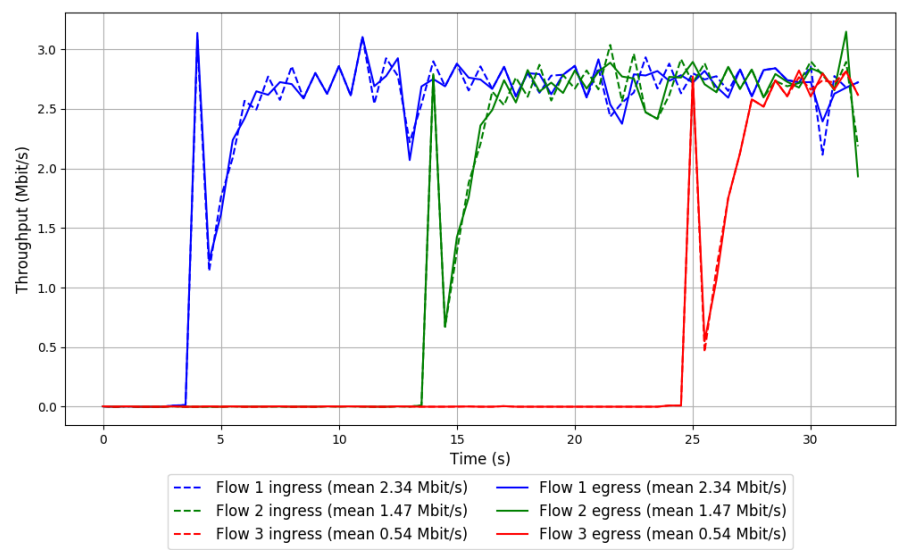


Run 9: Statistics of WebRTC media

Start at: 2017-12-06 00:02:49
End at: 2017-12-06 00:03:19
Local clock offset: 6.939 ms
Remote clock offset: -12.299 ms

Below is generated by plot.py at 2017-12-06 01:04:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.35 Mbit/s
95th percentile per-packet one-way delay: -7.978 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.34 Mbit/s
95th percentile per-packet one-way delay: -8.444 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.47 Mbit/s
95th percentile per-packet one-way delay: -7.741 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.54 Mbit/s
95th percentile per-packet one-way delay: -6.543 ms
Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link

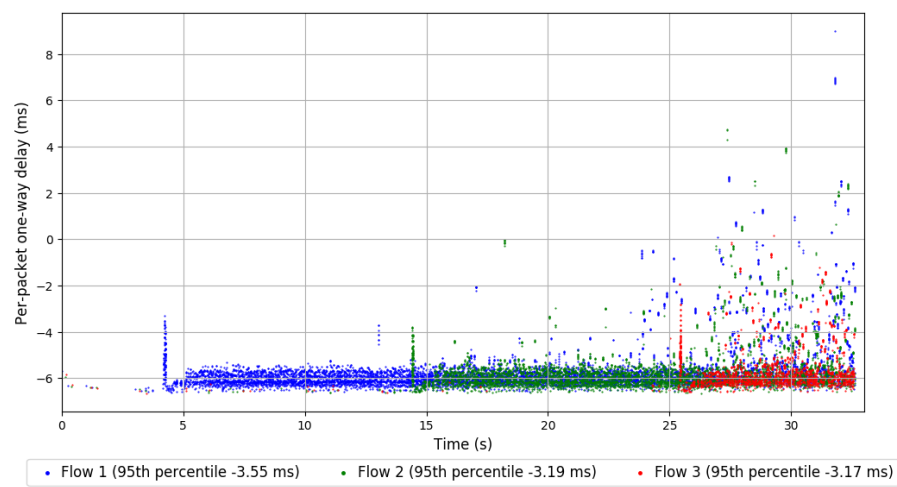
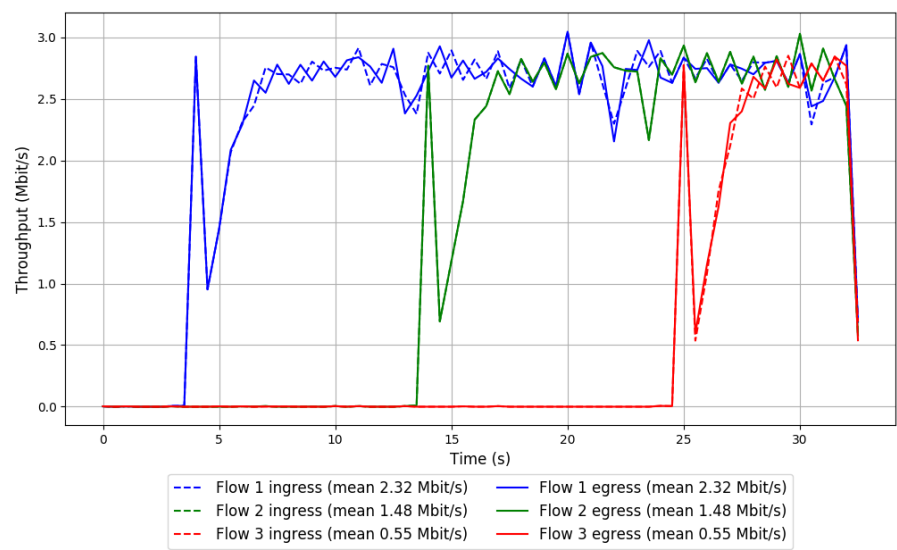


Run 10: Statistics of WebRTC media

Start at: 2017-12-06 00:19:11
End at: 2017-12-06 00:19:41
Local clock offset: 3.858 ms
Remote clock offset: -12.669 ms

Below is generated by plot.py at 2017-12-06 01:04:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.34 Mbit/s
95th percentile per-packet one-way delay: -3.305 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.32 Mbit/s
95th percentile per-packet one-way delay: -3.546 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.48 Mbit/s
95th percentile per-packet one-way delay: -3.195 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.55 Mbit/s
95th percentile per-packet one-way delay: -3.171 ms
Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

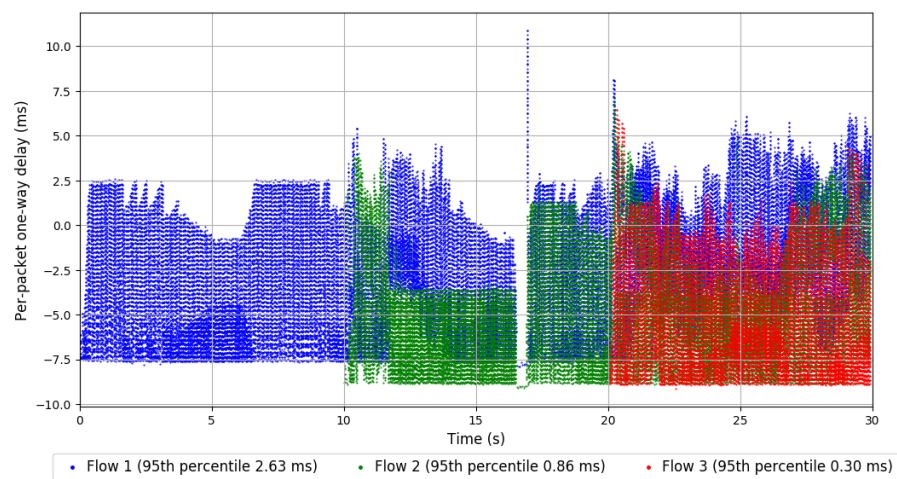
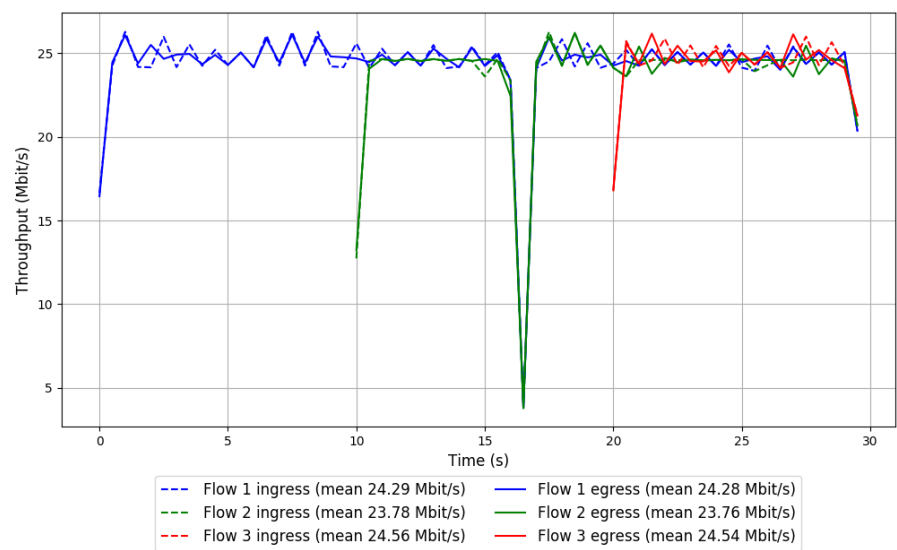


Run 1: Statistics of Sprout

Start at: 2017-12-05 21:56:41
End at: 2017-12-05 21:57:11
Local clock offset: 5.01 ms
Remote clock offset: -12.274 ms

Below is generated by plot.py at 2017-12-06 01:04:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 48.20 Mbit/s
95th percentile per-packet one-way delay: 2.033 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 24.28 Mbit/s
95th percentile per-packet one-way delay: 2.626 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 23.76 Mbit/s
95th percentile per-packet one-way delay: 0.862 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 24.54 Mbit/s
95th percentile per-packet one-way delay: 0.304 ms
Loss rate: 0.00%

Run 1: Report of Sprout — Data Link

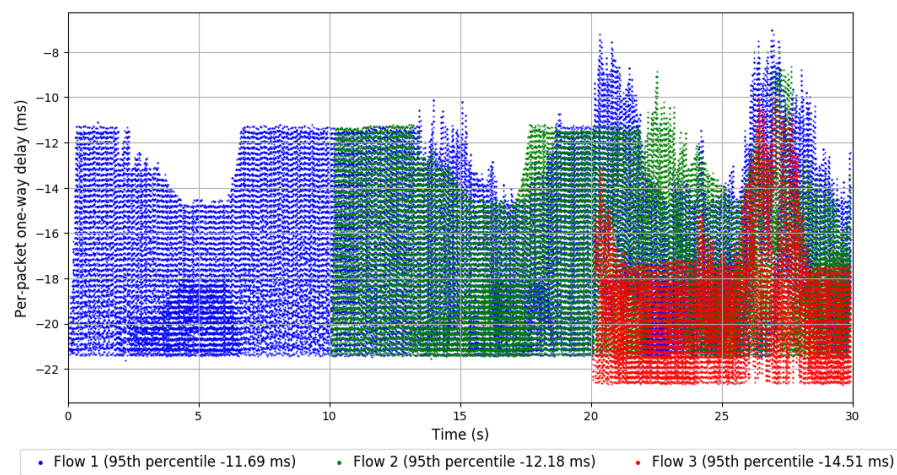
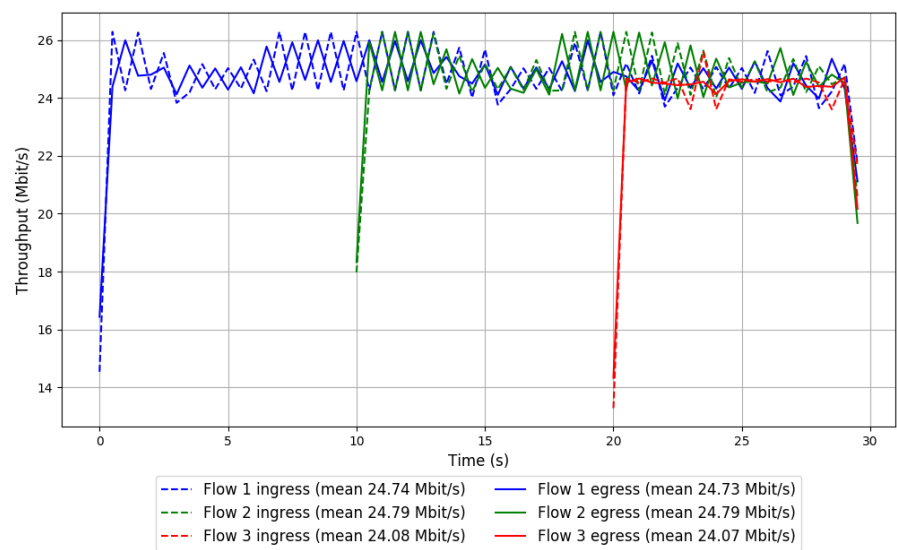


Run 2: Statistics of Sprout

Start at: 2017-12-05 22:13:18
End at: 2017-12-05 22:13:48
Local clock offset: 20.498 ms
Remote clock offset: -10.286 ms

```
# Below is generated by plot.py at 2017-12-06 01:04:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 49.16 Mbit/s
95th percentile per-packet one-way delay: -12.000 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 24.73 Mbit/s
95th percentile per-packet one-way delay: -11.689 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 24.79 Mbit/s
95th percentile per-packet one-way delay: -12.178 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 24.07 Mbit/s
95th percentile per-packet one-way delay: -14.510 ms
Loss rate: 0.00%
```


Run 2: Report of Sprout — Data Link

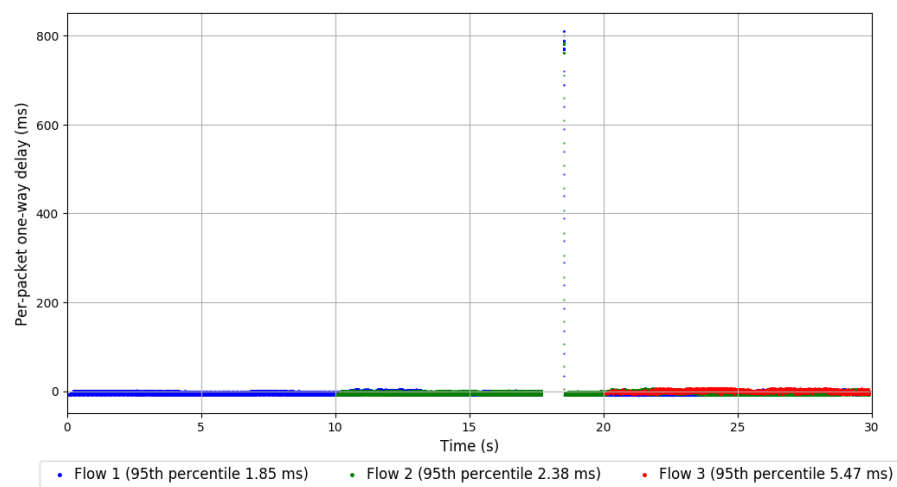
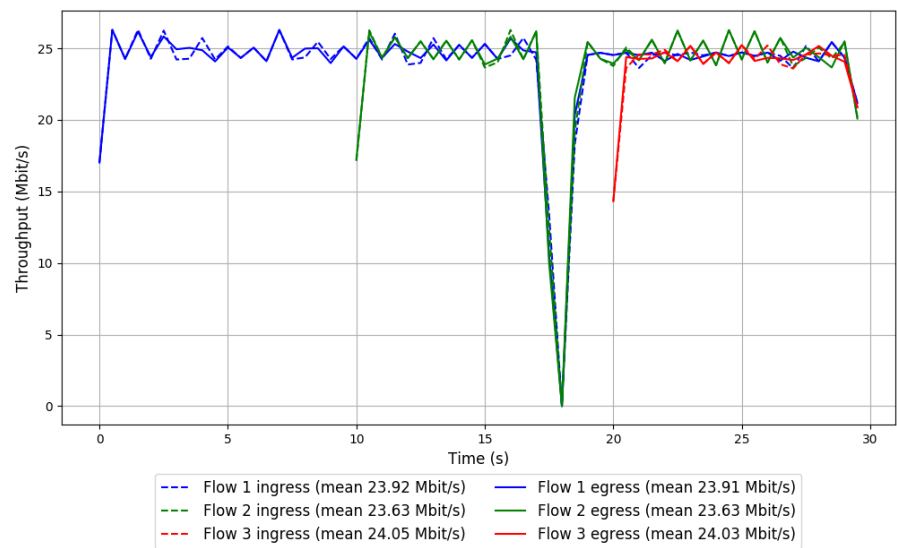


Run 3: Statistics of Sprout

Start at: 2017-12-05 22:29:52
End at: 2017-12-05 22:30:22
Local clock offset: 3.557 ms
Remote clock offset: -12.416 ms

Below is generated by plot.py at 2017-12-06 01:04:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 47.56 Mbit/s
95th percentile per-packet one-way delay: 3.461 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 23.91 Mbit/s
95th percentile per-packet one-way delay: 1.847 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 23.63 Mbit/s
95th percentile per-packet one-way delay: 2.385 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 24.03 Mbit/s
95th percentile per-packet one-way delay: 5.473 ms
Loss rate: 0.00%

Run 3: Report of Sprout — Data Link

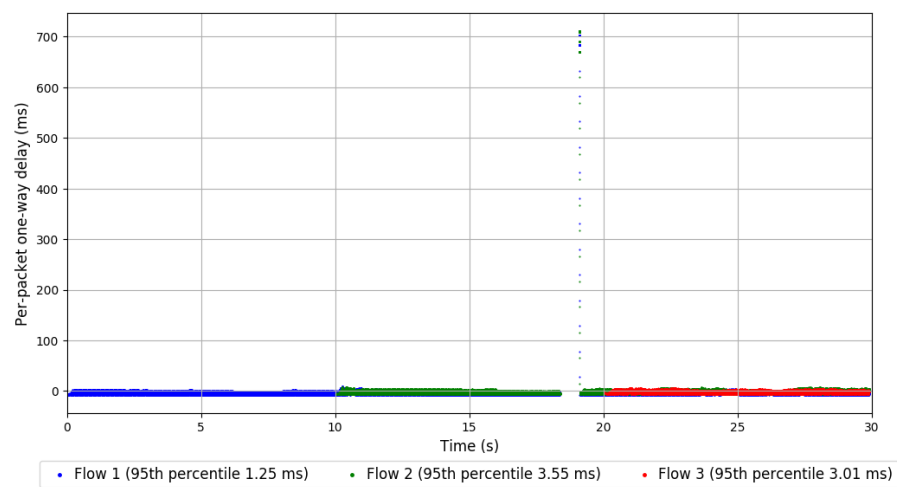
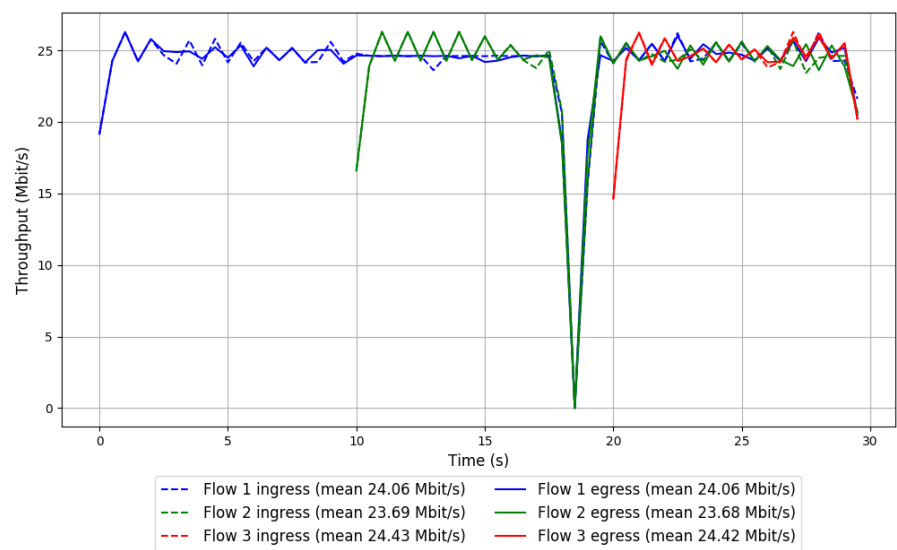


Run 4: Statistics of Sprout

Start at: 2017-12-05 22:46:17
End at: 2017-12-05 22:46:47
Local clock offset: 3.478 ms
Remote clock offset: -12.399 ms

```
# Below is generated by plot.py at 2017-12-06 01:04:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 47.88 Mbit/s
95th percentile per-packet one-way delay: 2.701 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 24.06 Mbit/s
95th percentile per-packet one-way delay: 1.252 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 23.68 Mbit/s
95th percentile per-packet one-way delay: 3.551 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 24.42 Mbit/s
95th percentile per-packet one-way delay: 3.007 ms
Loss rate: 0.00%
```

Run 4: Report of Sprout — Data Link

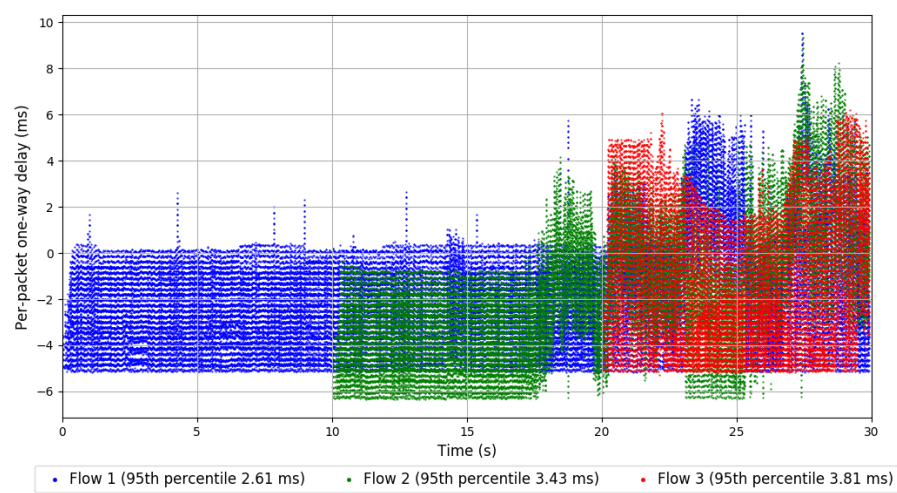
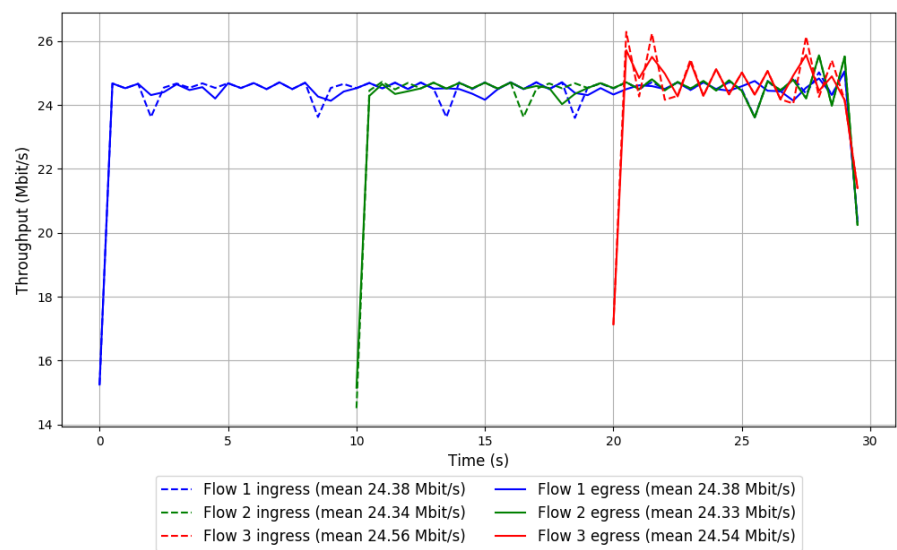


Run 5: Statistics of Sprout

Start at: 2017-12-05 23:02:52
End at: 2017-12-05 23:03:22
Local clock offset: 1.825 ms
Remote clock offset: -12.665 ms

Below is generated by plot.py at 2017-12-06 01:04:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 48.67 Mbit/s
95th percentile per-packet one-way delay: 3.222 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 24.38 Mbit/s
95th percentile per-packet one-way delay: 2.606 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 24.33 Mbit/s
95th percentile per-packet one-way delay: 3.432 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 24.54 Mbit/s
95th percentile per-packet one-way delay: 3.815 ms
Loss rate: 0.00%

Run 5: Report of Sprout — Data Link

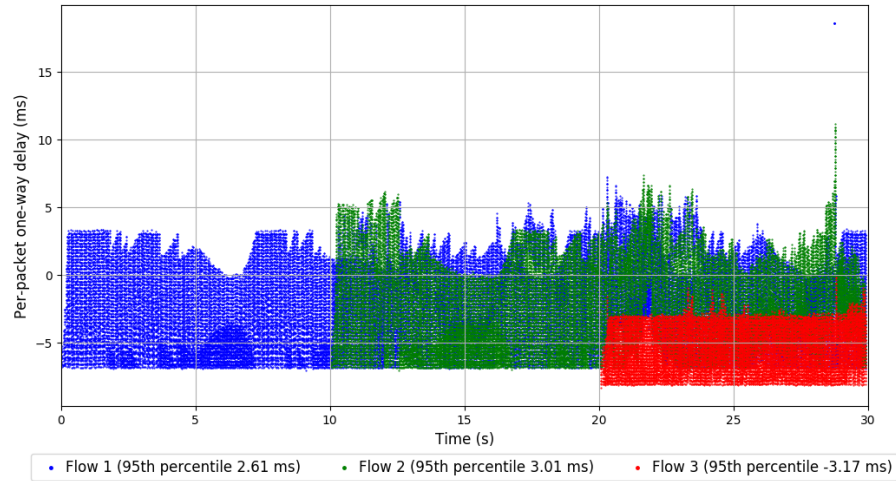
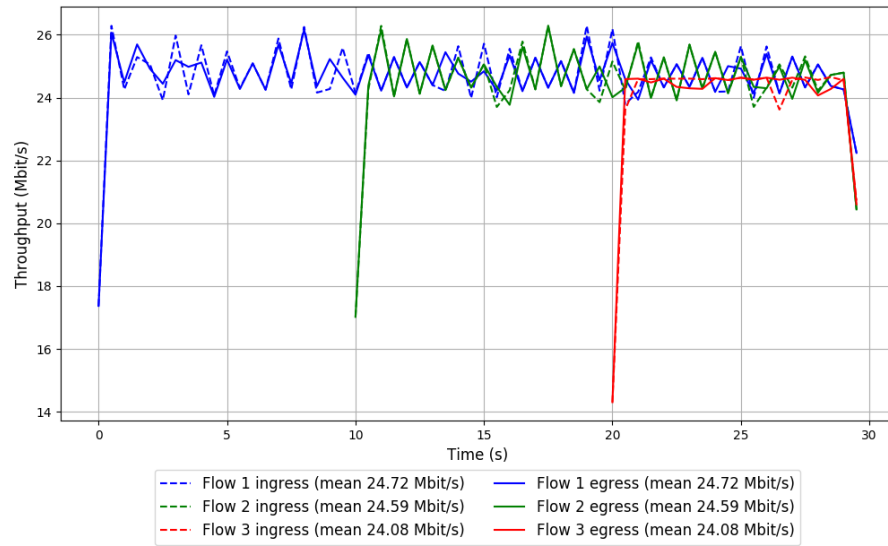


Run 6: Statistics of Sprout

Start at: 2017-12-05 23:19:17
End at: 2017-12-05 23:19:47
Local clock offset: 3.597 ms
Remote clock offset: -12.756 ms

Below is generated by plot.py at 2017-12-06 01:04:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 49.02 Mbit/s
95th percentile per-packet one-way delay: 2.568 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 24.72 Mbit/s
95th percentile per-packet one-way delay: 2.614 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 24.59 Mbit/s
95th percentile per-packet one-way delay: 3.007 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 24.08 Mbit/s
95th percentile per-packet one-way delay: -3.166 ms
Loss rate: 0.00%

Run 6: Report of Sprout — Data Link

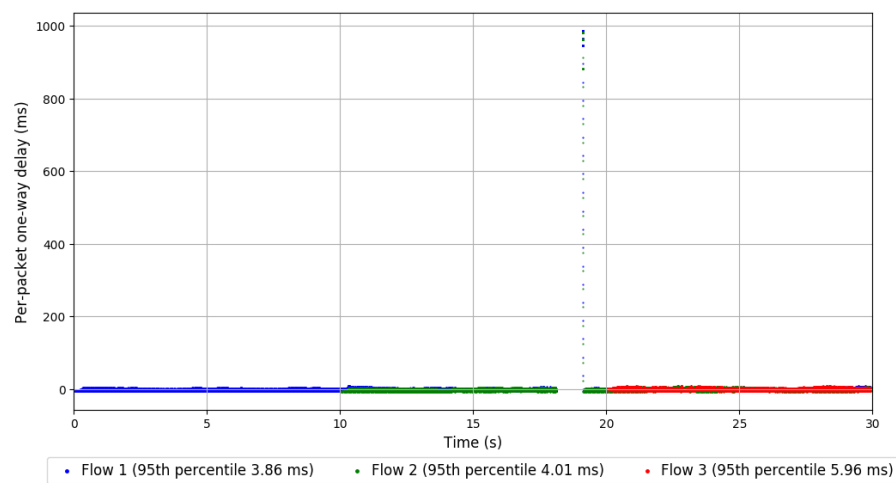
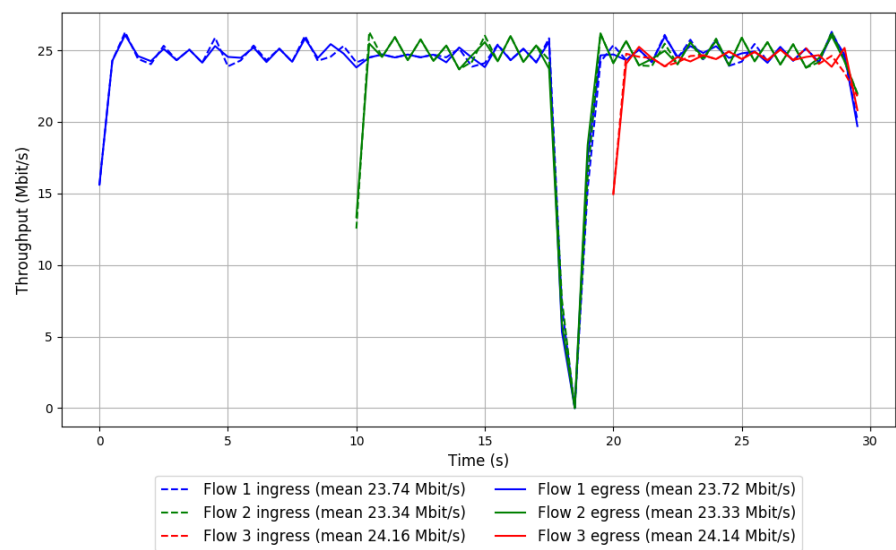


Run 7: Statistics of Sprout

Start at: 2017-12-05 23:35:36
End at: 2017-12-05 23:36:06
Local clock offset: 3.448 ms
Remote clock offset: -10.938 ms

Below is generated by plot.py at 2017-12-06 01:05:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 47.22 Mbit/s
95th percentile per-packet one-way delay: 4.372 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 23.72 Mbit/s
95th percentile per-packet one-way delay: 3.857 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 23.33 Mbit/s
95th percentile per-packet one-way delay: 4.014 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 24.14 Mbit/s
95th percentile per-packet one-way delay: 5.957 ms
Loss rate: 0.00%

Run 7: Report of Sprout — Data Link

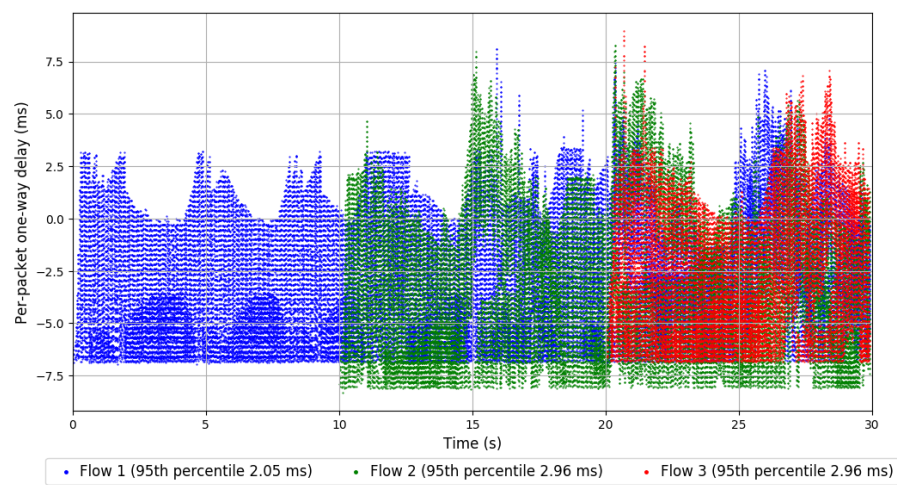
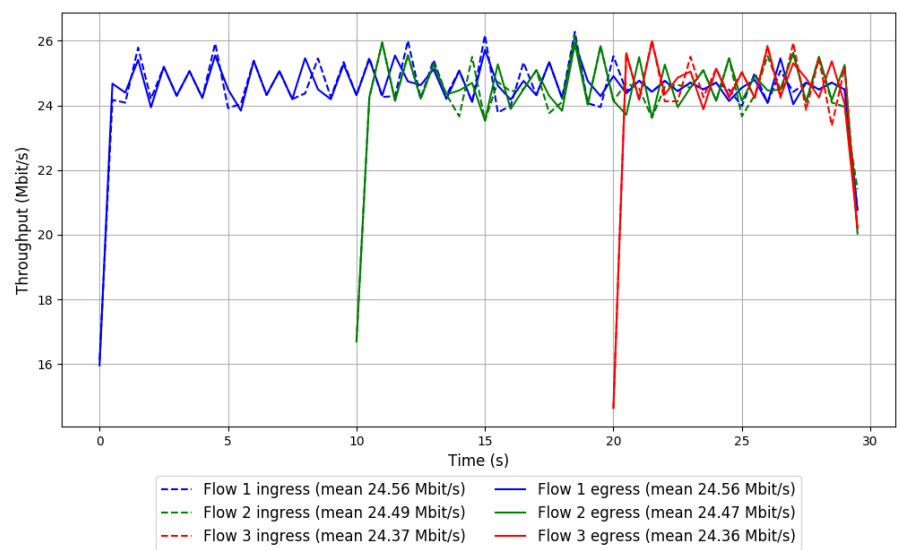


Run 8: Statistics of Sprout

Start at: 2017-12-05 23:52:11
End at: 2017-12-05 23:52:41
Local clock offset: 4.123 ms
Remote clock offset: -11.227 ms

Below is generated by plot.py at 2017-12-06 01:05:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 48.88 Mbit/s
95th percentile per-packet one-way delay: 2.489 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 24.56 Mbit/s
95th percentile per-packet one-way delay: 2.053 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 24.47 Mbit/s
95th percentile per-packet one-way delay: 2.963 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 24.36 Mbit/s
95th percentile per-packet one-way delay: 2.956 ms
Loss rate: 0.00%

Run 8: Report of Sprout — Data Link

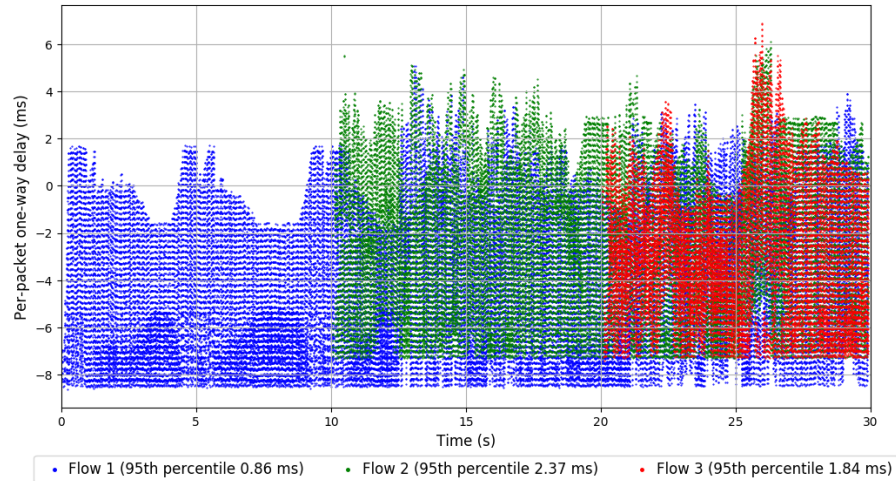
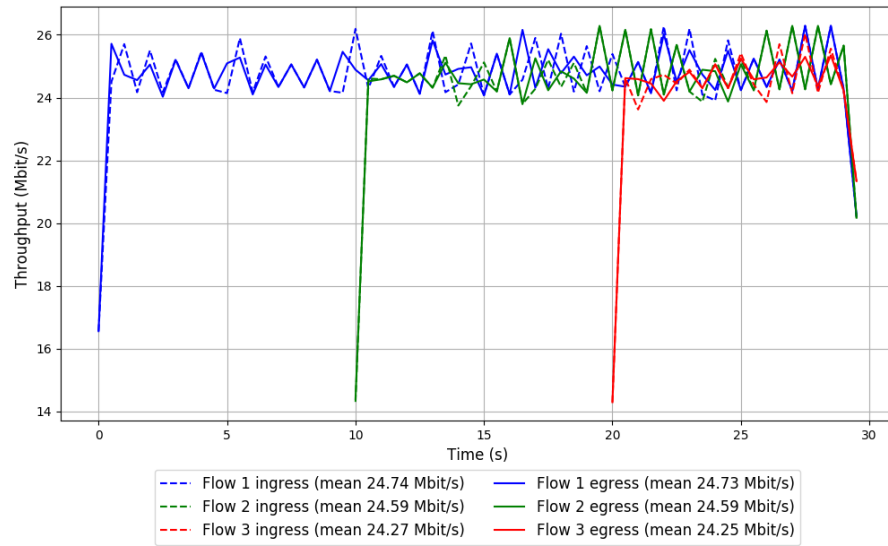


Run 9: Statistics of Sprout

Start at: 2017-12-06 00:08:32
End at: 2017-12-06 00:09:02
Local clock offset: 3.982 ms
Remote clock offset: -13.524 ms

Below is generated by plot.py at 2017-12-06 01:05:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 49.10 Mbit/s
95th percentile per-packet one-way delay: 1.609 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 24.73 Mbit/s
95th percentile per-packet one-way delay: 0.858 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 24.59 Mbit/s
95th percentile per-packet one-way delay: 2.366 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 24.25 Mbit/s
95th percentile per-packet one-way delay: 1.845 ms
Loss rate: 0.00%

Run 9: Report of Sprout — Data Link

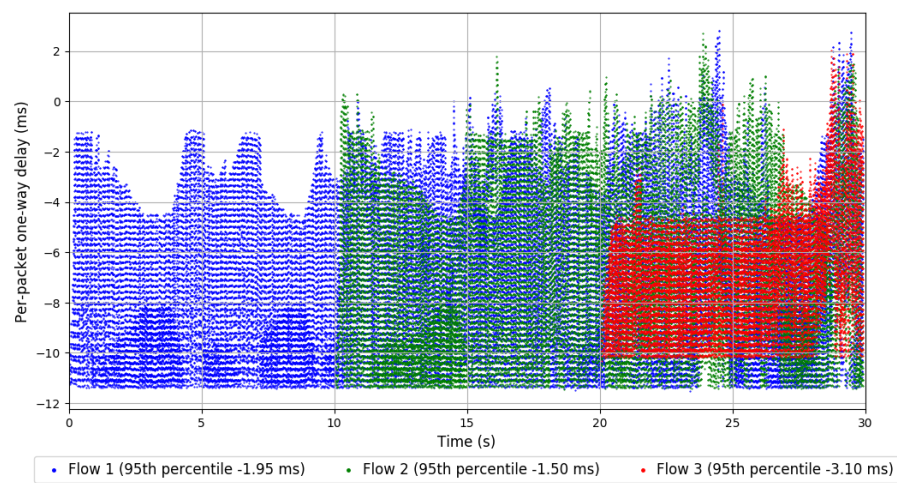
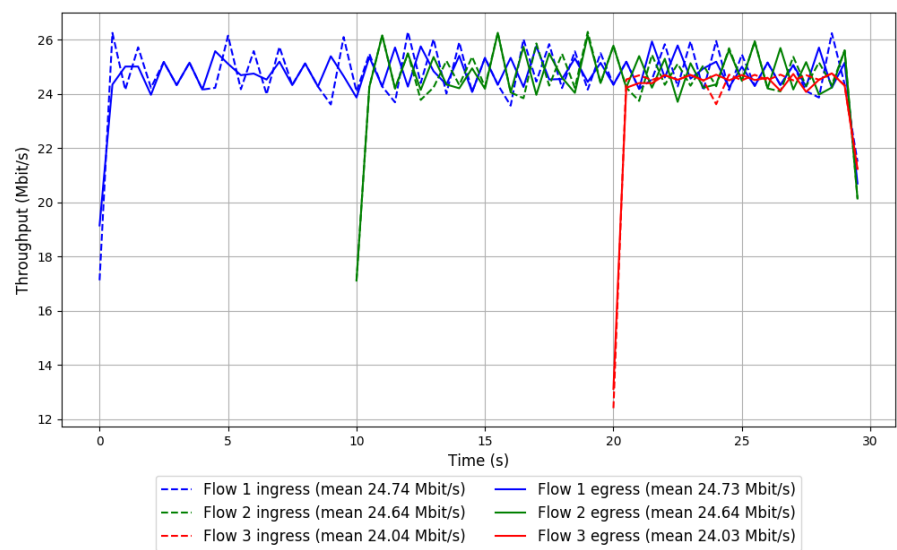


Run 10: Statistics of Sprout

Start at: 2017-12-06 00:25:05
End at: 2017-12-06 00:25:35
Local clock offset: 6.777 ms
Remote clock offset: -13.555 ms

Below is generated by plot.py at 2017-12-06 01:05:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 49.06 Mbit/s
95th percentile per-packet one-way delay: -1.866 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 24.73 Mbit/s
95th percentile per-packet one-way delay: -1.953 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 24.64 Mbit/s
95th percentile per-packet one-way delay: -1.498 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 24.03 Mbit/s
95th percentile per-packet one-way delay: -3.096 ms
Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

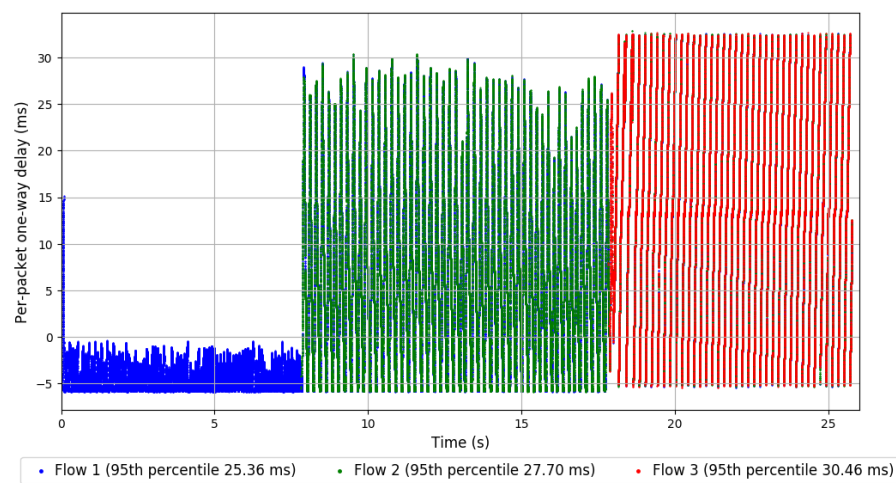
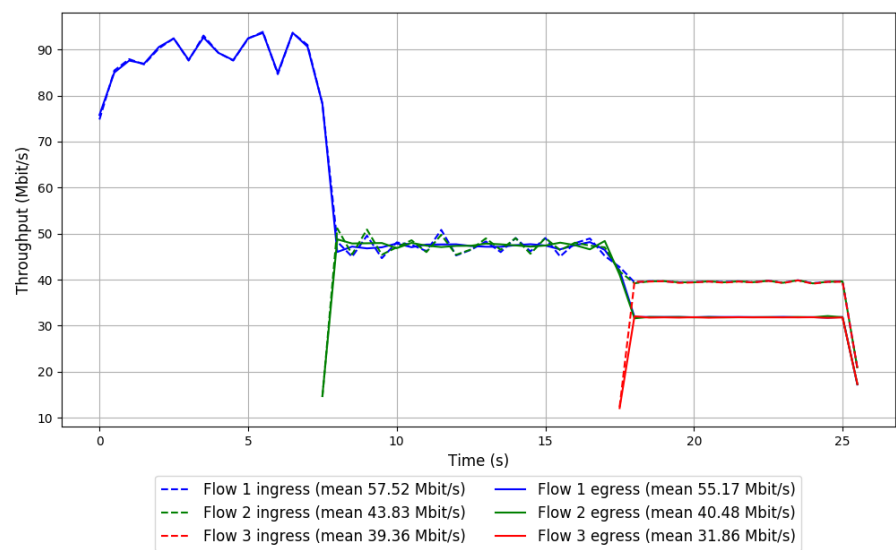


```
Run 1: Statistics of TaoVA-100x

Start at: 2017-12-05 21:49:38
End at: 2017-12-05 21:50:08
Local clock offset: 2.14 ms
Remote clock offset: -12.26 ms

# Below is generated by plot.py at 2017-12-06 01:06:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.23 Mbit/s
95th percentile per-packet one-way delay: 27.214 ms
Loss rate: 6.91%
-- Flow 1:
Average throughput: 55.17 Mbit/s
95th percentile per-packet one-way delay: 25.358 ms
Loss rate: 4.01%
-- Flow 2:
Average throughput: 40.48 Mbit/s
95th percentile per-packet one-way delay: 27.699 ms
Loss rate: 7.54%
-- Flow 3:
Average throughput: 31.86 Mbit/s
95th percentile per-packet one-way delay: 30.461 ms
Loss rate: 19.02%
```

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

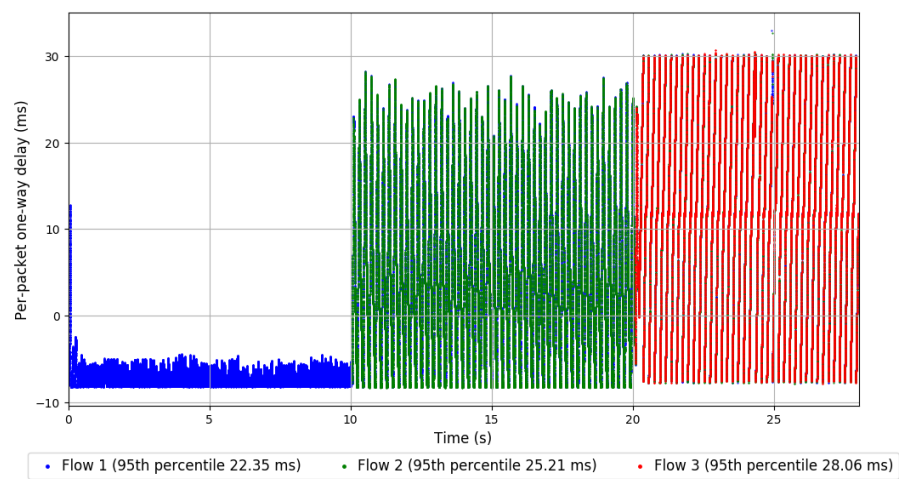
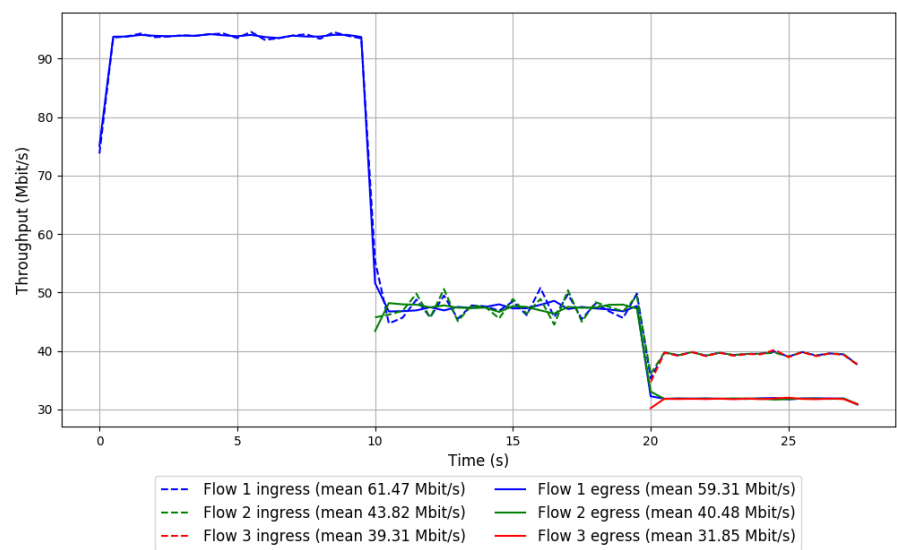


```
Run 2: Statistics of TaoVA-100x

Start at: 2017-12-05 22:06:15
End at: 2017-12-05 22:06:45
Local clock offset: 6.058 ms
Remote clock offset: -11.705 ms

# Below is generated by plot.py at 2017-12-06 01:07:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.36 Mbit/s
95th percentile per-packet one-way delay: 24.365 ms
Loss rate: 6.30%
-- Flow 1:
Average throughput: 59.31 Mbit/s
95th percentile per-packet one-way delay: 22.353 ms
Loss rate: 3.44%
-- Flow 2:
Average throughput: 40.48 Mbit/s
95th percentile per-packet one-way delay: 25.213 ms
Loss rate: 7.53%
-- Flow 3:
Average throughput: 31.85 Mbit/s
95th percentile per-packet one-way delay: 28.059 ms
Loss rate: 18.93%
```

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

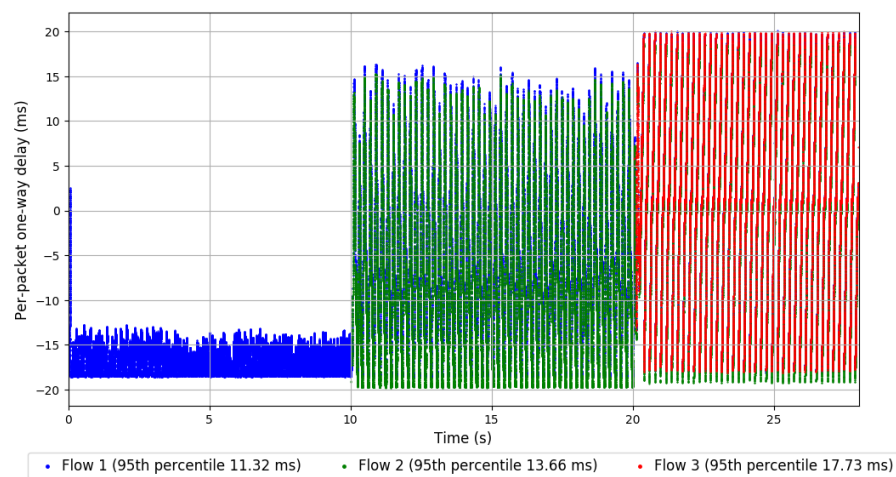
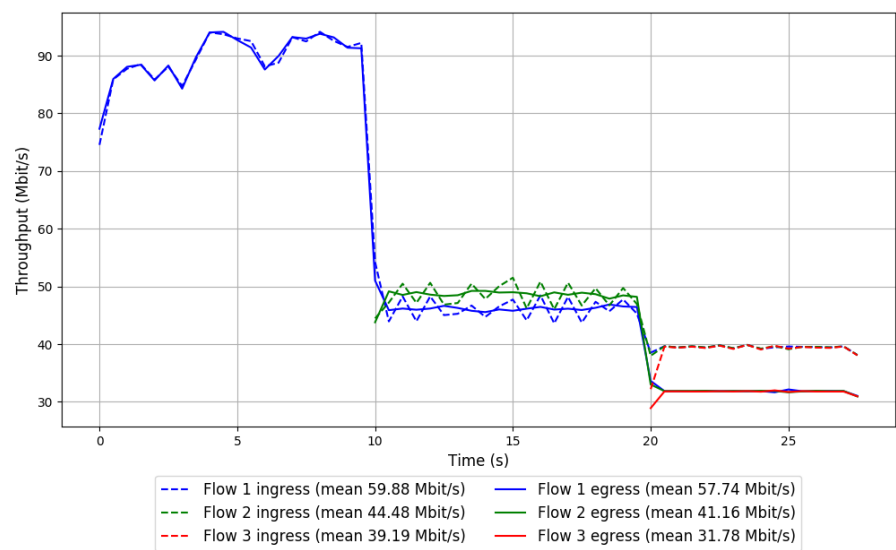


Run 3: Statistics of TaoVA-100x

Start at: 2017-12-05 22:22:49
End at: 2017-12-05 22:23:19
Local clock offset: 16.212 ms
Remote clock offset: -11.498 ms

Below is generated by plot.py at 2017-12-06 01:07:05
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.17 Mbit/s
95th percentile per-packet one-way delay: 13.442 ms
Loss rate: 6.33%
-- Flow 1:
Average throughput: 57.74 Mbit/s
95th percentile per-packet one-way delay: 11.325 ms
Loss rate: 3.51%
-- Flow 2:
Average throughput: 41.16 Mbit/s
95th percentile per-packet one-way delay: 13.663 ms
Loss rate: 7.36%
-- Flow 3:
Average throughput: 31.78 Mbit/s
95th percentile per-packet one-way delay: 17.730 ms
Loss rate: 18.88%

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

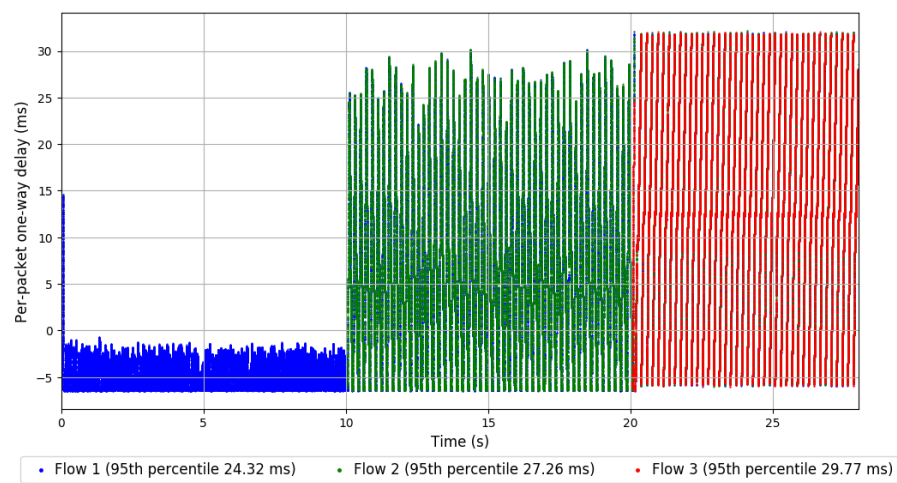
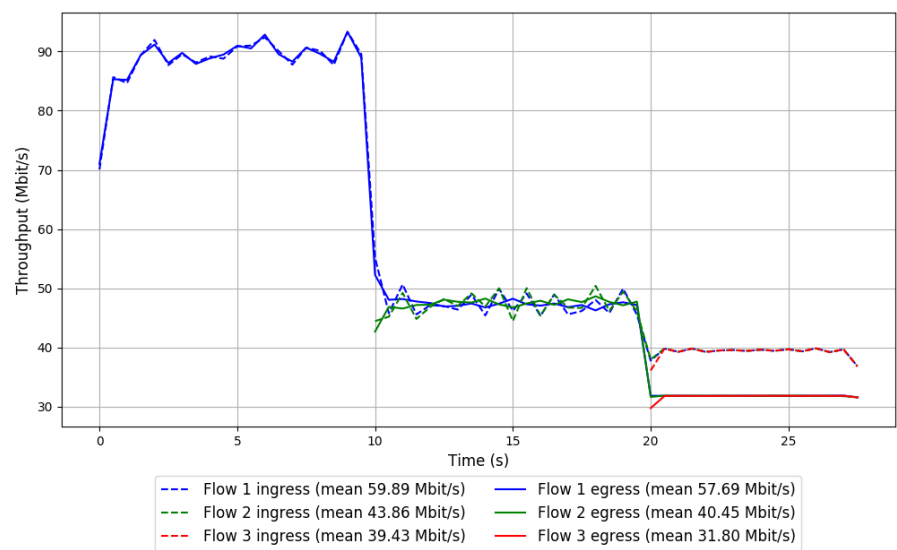


Run 4: Statistics of TaoVA-100x

Start at: 2017-12-05 22:39:21
End at: 2017-12-05 22:39:51
Local clock offset: 3.512 ms
Remote clock offset: -10.878 ms

Below is generated by plot.py at 2017-12-06 01:07:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 92.72 Mbit/s
95th percentile per-packet one-way delay: 26.372 ms
Loss rate: 6.46%
-- Flow 1:
Average throughput: 57.69 Mbit/s
95th percentile per-packet one-way delay: 24.319 ms
Loss rate: 3.56%
-- Flow 2:
Average throughput: 40.45 Mbit/s
95th percentile per-packet one-way delay: 27.259 ms
Loss rate: 7.61%
-- Flow 3:
Average throughput: 31.80 Mbit/s
95th percentile per-packet one-way delay: 29.772 ms
Loss rate: 19.07%

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

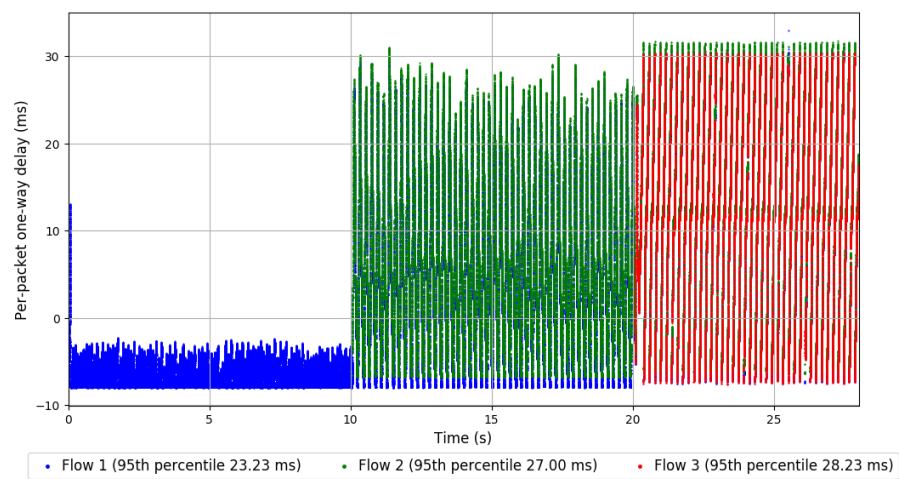
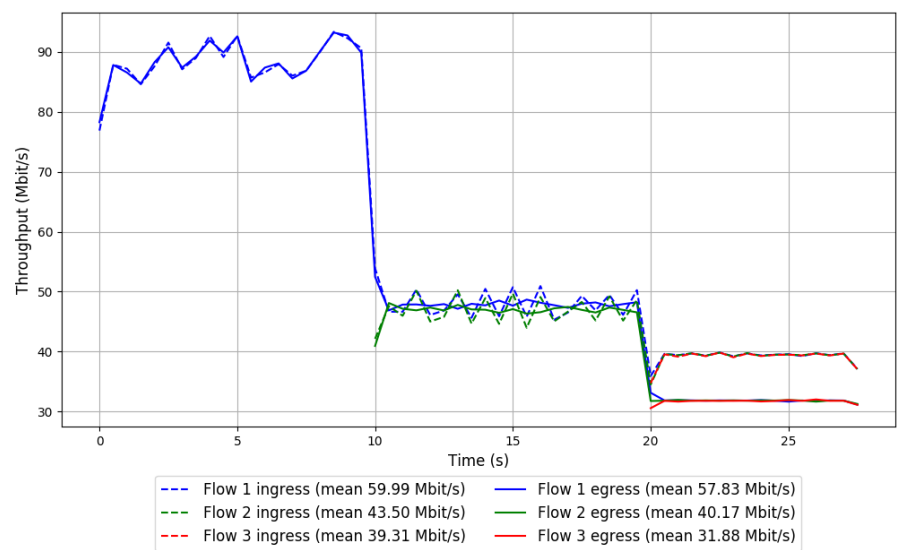


Run 5: Statistics of TaoVA-100x

Start at: 2017-12-05 22:55:51
End at: 2017-12-05 22:56:21
Local clock offset: 4.115 ms
Remote clock offset: -12.013 ms

Below is generated by plot.py at 2017-12-06 01:07:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 92.68 Mbit/s
95th percentile per-packet one-way delay: 25.487 ms
Loss rate: 6.36%
-- Flow 1:
Average throughput: 57.83 Mbit/s
95th percentile per-packet one-way delay: 23.229 ms
Loss rate: 3.51%
-- Flow 2:
Average throughput: 40.17 Mbit/s
95th percentile per-packet one-way delay: 27.004 ms
Loss rate: 7.53%
-- Flow 3:
Average throughput: 31.88 Mbit/s
95th percentile per-packet one-way delay: 28.225 ms
Loss rate: 18.78%

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

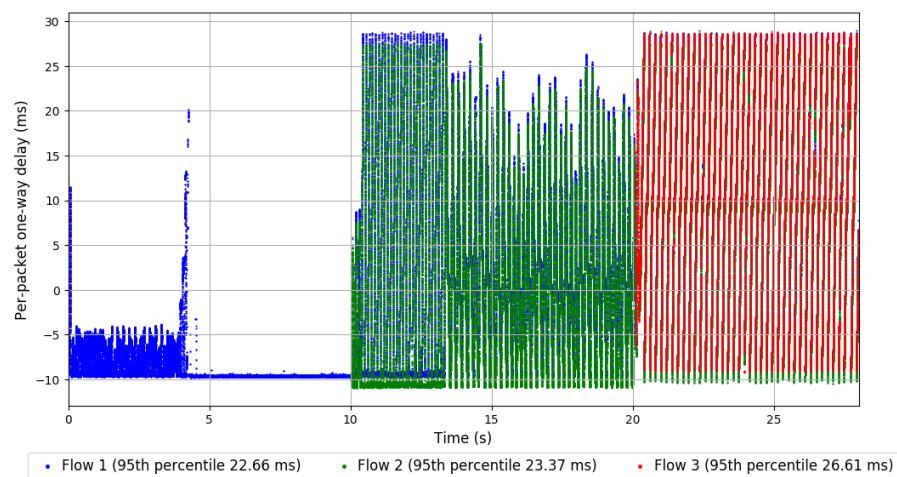
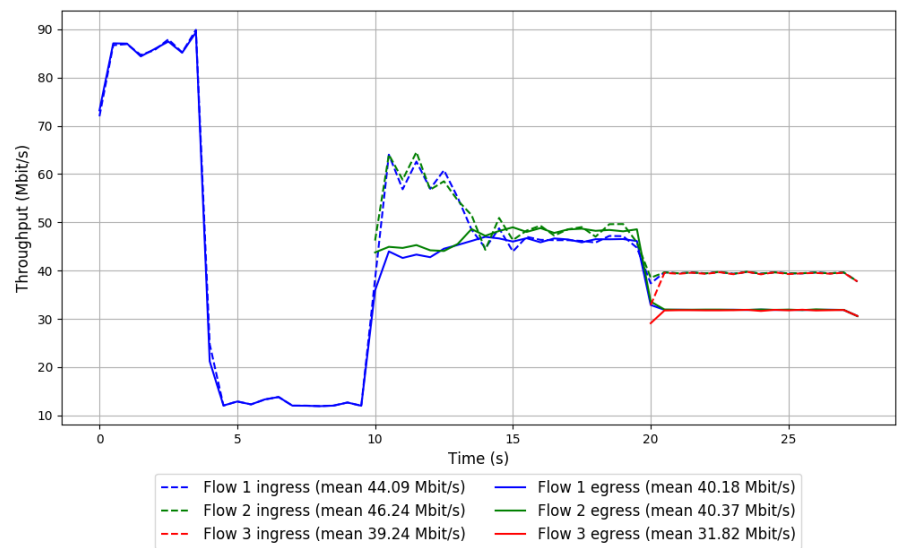


Run 6: Statistics of TaoVA-100x

Start at: 2017-12-05 23:12:16
End at: 2017-12-05 23:12:46
Local clock offset: 7.017 ms
Remote clock offset: -12.112 ms

Below is generated by plot.py at 2017-12-06 01:07:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 75.12 Mbit/s
95th percentile per-packet one-way delay: 23.837 ms
Loss rate: 11.49%
-- Flow 1:
Average throughput: 40.18 Mbit/s
95th percentile per-packet one-way delay: 22.663 ms
Loss rate: 8.84%
-- Flow 2:
Average throughput: 40.37 Mbit/s
95th percentile per-packet one-way delay: 23.371 ms
Loss rate: 12.62%
-- Flow 3:
Average throughput: 31.82 Mbit/s
95th percentile per-packet one-way delay: 26.612 ms
Loss rate: 19.00%

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

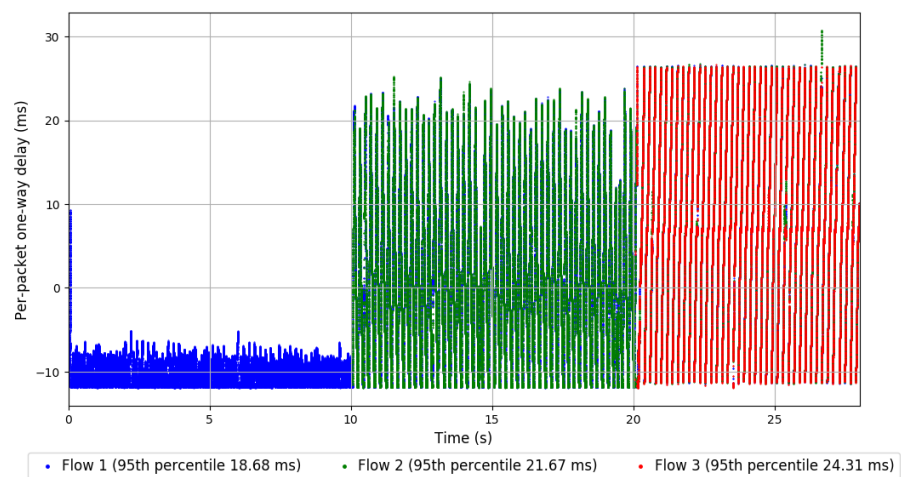
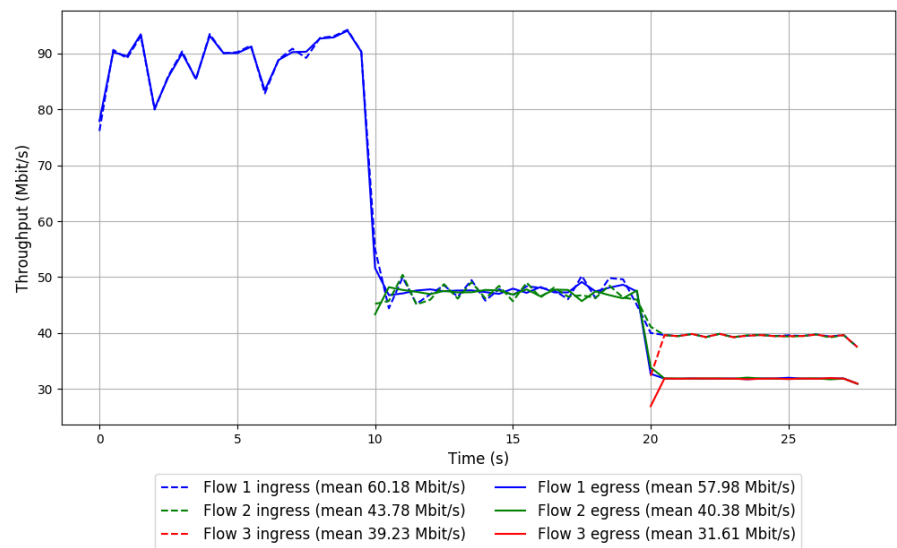


Run 7: Statistics of TaoVA-100x

Start at: 2017-12-05 23:28:40
End at: 2017-12-05 23:29:10
Local clock offset: 6.713 ms
Remote clock offset: -13.26 ms

Below is generated by plot.py at 2017-12-06 01:07:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 92.91 Mbit/s
95th percentile per-packet one-way delay: 20.829 ms
Loss rate: 6.49%
-- Flow 1:
Average throughput: 57.98 Mbit/s
95th percentile per-packet one-way delay: 18.676 ms
Loss rate: 3.59%
-- Flow 2:
Average throughput: 40.38 Mbit/s
95th percentile per-packet one-way delay: 21.667 ms
Loss rate: 7.66%
-- Flow 3:
Average throughput: 31.61 Mbit/s
95th percentile per-packet one-way delay: 24.310 ms
Loss rate: 19.20%

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

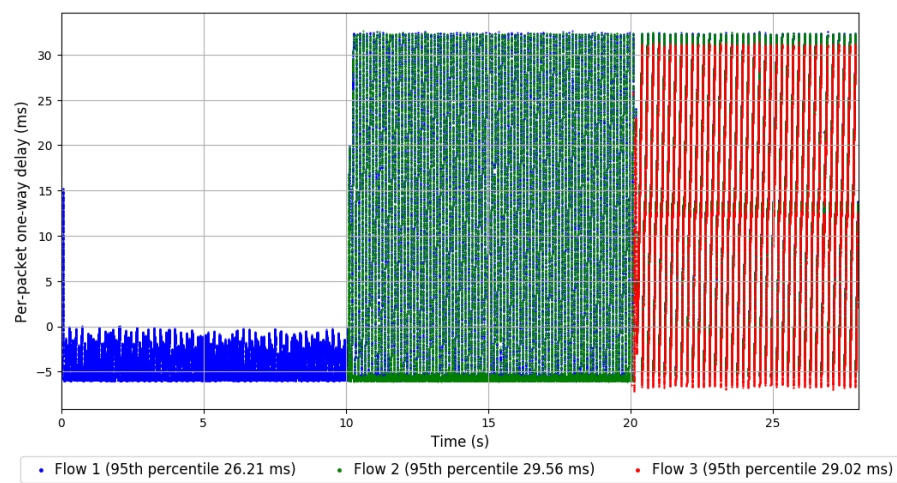
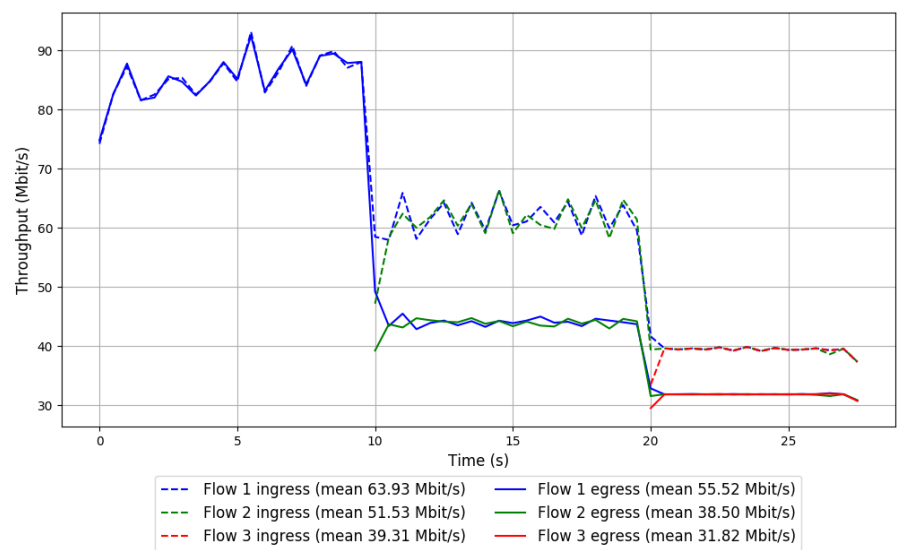


Run 8: Statistics of TaoVA-100x

Start at: 2017-12-05 23:45:12
End at: 2017-12-05 23:45:42
Local clock offset: 3.606 ms
Remote clock offset: -10.957 ms

Below is generated by plot.py at 2017-12-06 01:07:45
Datalink statistics
-- Total of 3 flows:
Average throughput: 89.27 Mbit/s
95th percentile per-packet one-way delay: 28.102 ms
Loss rate: 17.40%
-- Flow 1:
Average throughput: 55.52 Mbit/s
95th percentile per-packet one-way delay: 26.213 ms
Loss rate: 13.11%
-- Flow 2:
Average throughput: 38.50 Mbit/s
95th percentile per-packet one-way delay: 29.564 ms
Loss rate: 25.22%
-- Flow 3:
Average throughput: 31.82 Mbit/s
95th percentile per-packet one-way delay: 29.015 ms
Loss rate: 18.85%

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

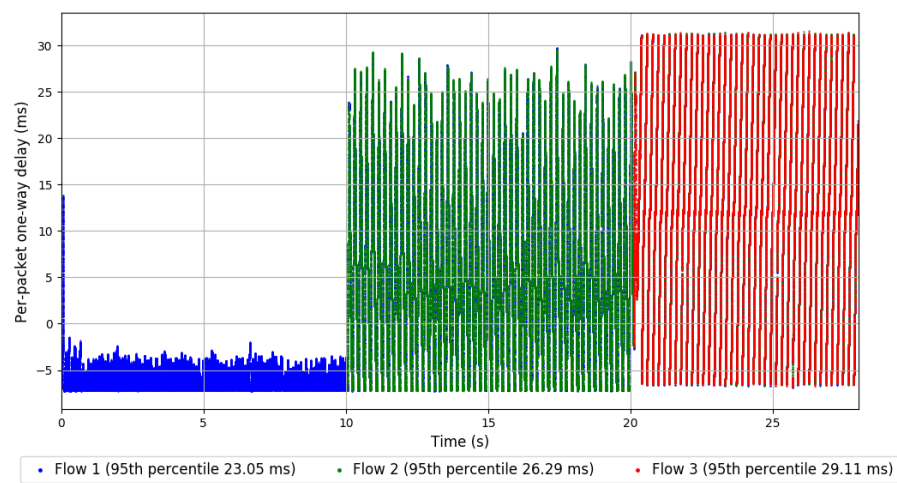
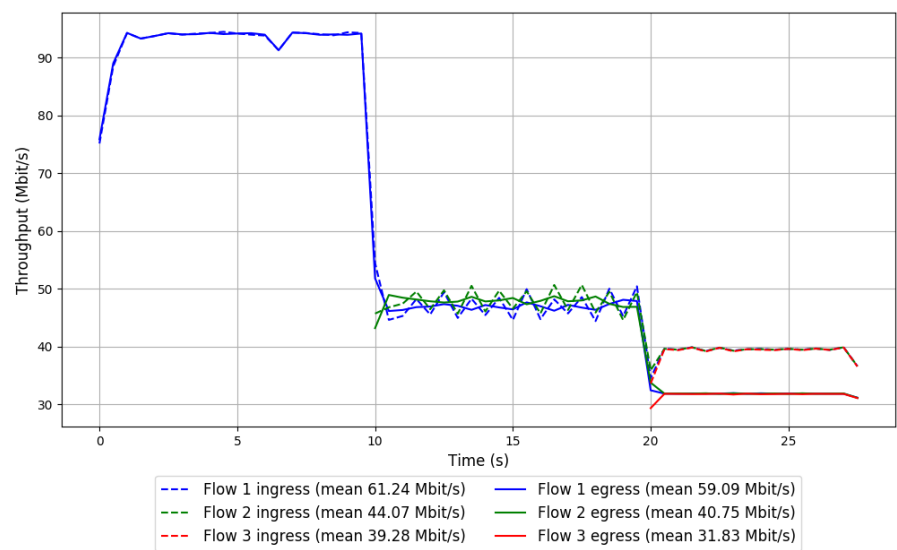


Run 9: Statistics of TaoVA-100x

Start at: 2017-12-06 00:01:36
End at: 2017-12-06 00:02:06
Local clock offset: 3.129 ms
Remote clock offset: -12.341 ms

Below is generated by plot.py at 2017-12-06 01:09:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 94.29 Mbit/s
95th percentile per-packet one-way delay: 25.380 ms
Loss rate: 6.26%
-- Flow 1:
Average throughput: 59.09 Mbit/s
95th percentile per-packet one-way delay: 23.052 ms
Loss rate: 3.43%
-- Flow 2:
Average throughput: 40.75 Mbit/s
95th percentile per-packet one-way delay: 26.294 ms
Loss rate: 7.42%
-- Flow 3:
Average throughput: 31.83 Mbit/s
95th percentile per-packet one-way delay: 29.109 ms
Loss rate: 18.87%

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

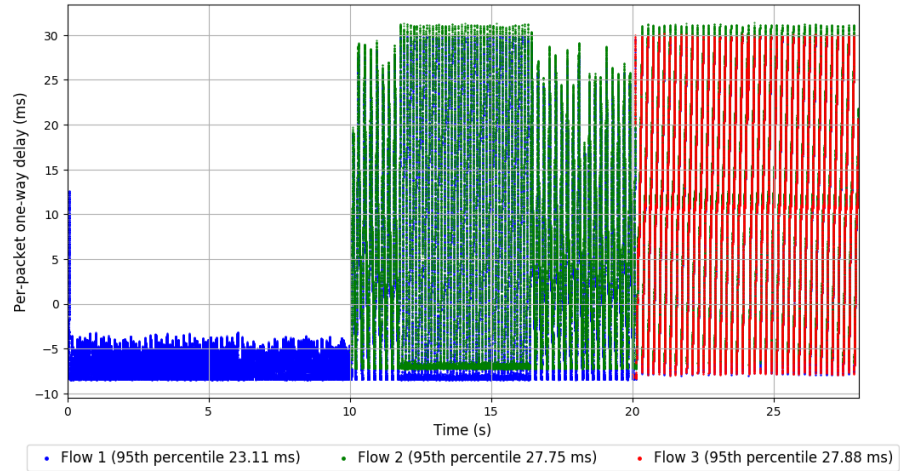
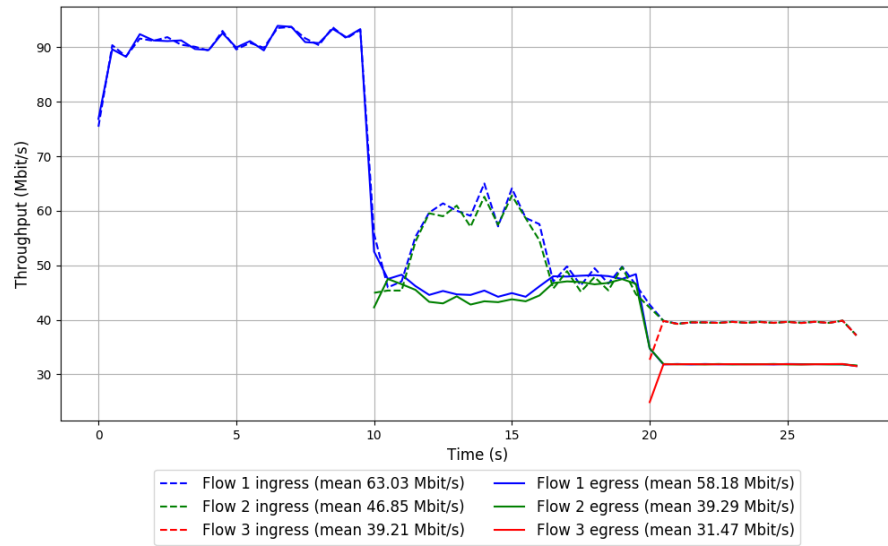


Run 10: Statistics of TaoVA-100x

Start at: 2017-12-06 00:17:58
End at: 2017-12-06 00:18:28
Local clock offset: 5.906 ms
Remote clock offset: -11.472 ms

Below is generated by plot.py at 2017-12-06 01:09:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 92.39 Mbit/s
95th percentile per-packet one-way delay: 25.757 ms
Loss rate: 11.29%
-- Flow 1:
Average throughput: 58.18 Mbit/s
95th percentile per-packet one-way delay: 23.108 ms
Loss rate: 7.60%
-- Flow 2:
Average throughput: 39.29 Mbit/s
95th percentile per-packet one-way delay: 27.749 ms
Loss rate: 16.00%
-- Flow 3:
Average throughput: 31.47 Mbit/s
95th percentile per-packet one-way delay: 27.883 ms
Loss rate: 19.44%

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

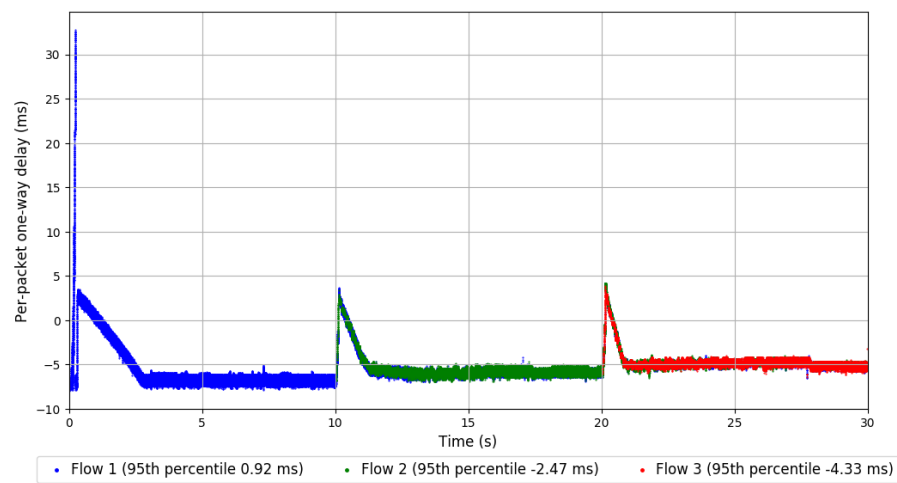
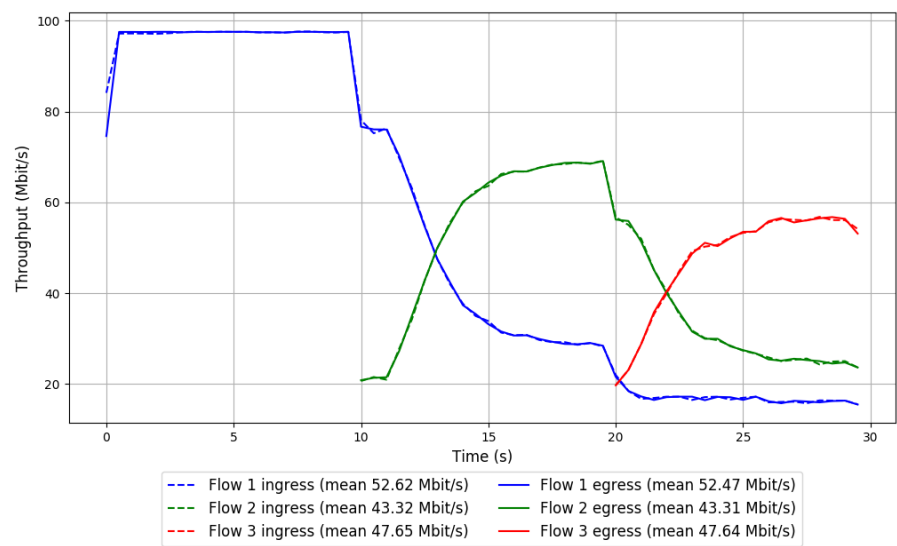


Run 1: Statistics of TCP Vegas

Start at: 2017-12-05 22:00:15
End at: 2017-12-05 22:00:45
Local clock offset: 4.07 ms
Remote clock offset: -13.482 ms

Below is generated by plot.py at 2017-12-06 01:09:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.13 Mbit/s
95th percentile per-packet one-way delay: -0.062 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 52.47 Mbit/s
95th percentile per-packet one-way delay: 0.922 ms
Loss rate: 0.29%
-- Flow 2:
Average throughput: 43.31 Mbit/s
95th percentile per-packet one-way delay: -2.466 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 47.64 Mbit/s
95th percentile per-packet one-way delay: -4.330 ms
Loss rate: 0.00%

Run 1: Report of TCP Vegas — Data Link

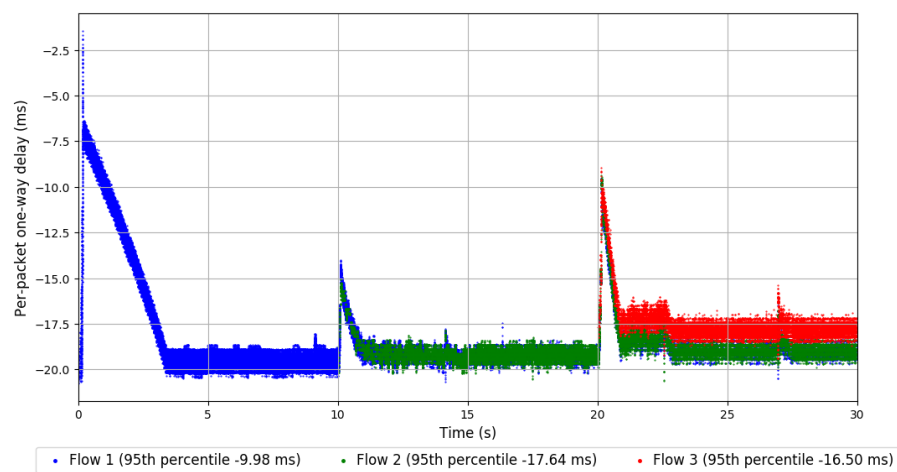
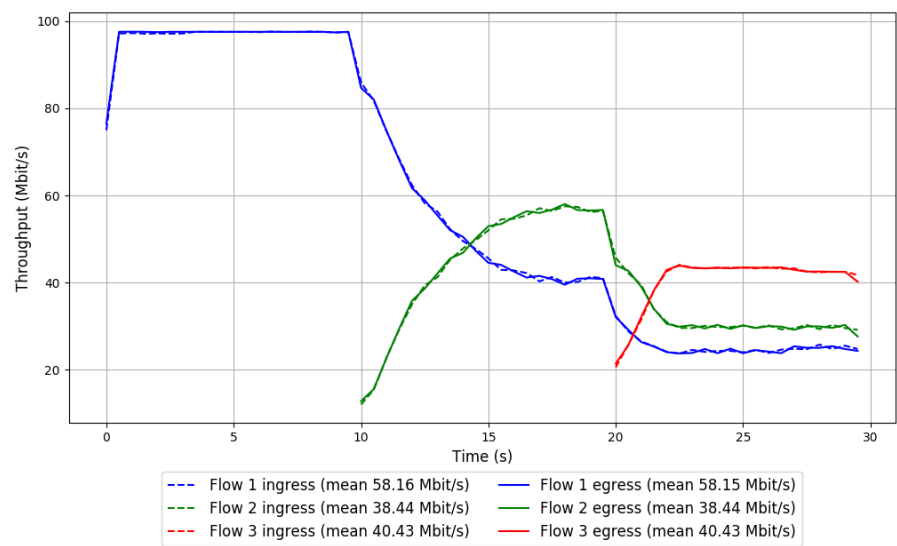


Run 2: Statistics of TCP Vegas

Start at: 2017-12-05 22:16:50
End at: 2017-12-05 22:17:20
Local clock offset: 17.791 ms
Remote clock offset: -11.016 ms

Below is generated by plot.py at 2017-12-06 01:09:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.16 Mbit/s
95th percentile per-packet one-way delay: -11.624 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 58.15 Mbit/s
95th percentile per-packet one-way delay: -9.979 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 38.44 Mbit/s
95th percentile per-packet one-way delay: -17.642 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 40.43 Mbit/s
95th percentile per-packet one-way delay: -16.505 ms
Loss rate: 0.00%

Run 2: Report of TCP Vegas — Data Link

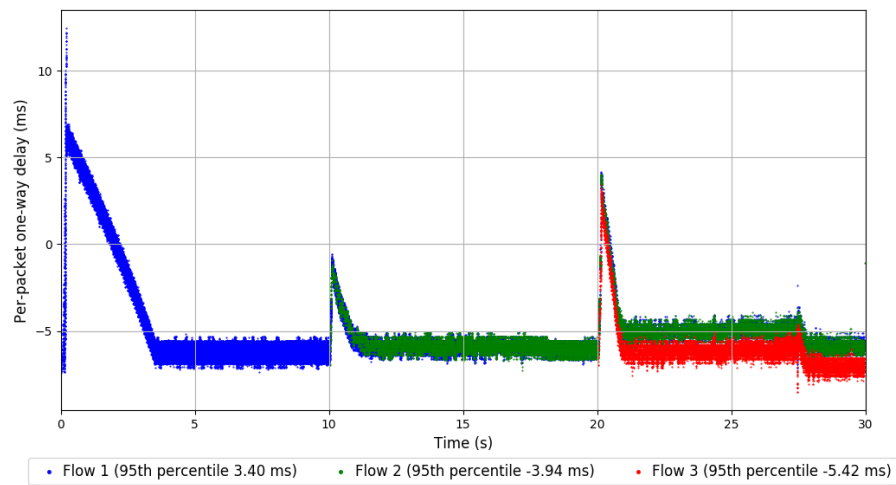
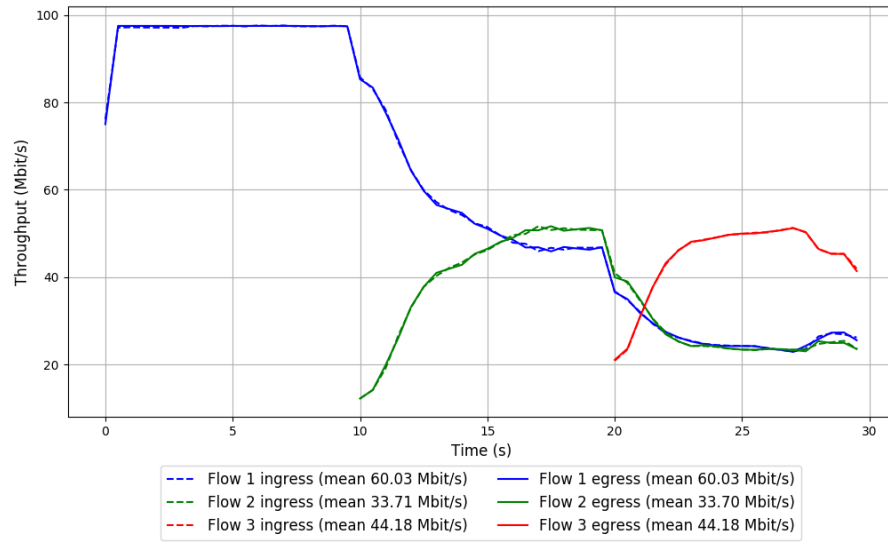


Run 3: Statistics of TCP Vegas

Start at: 2017-12-05 22:33:24
End at: 2017-12-05 22:33:54
Local clock offset: 4.167 ms
Remote clock offset: -12.359 ms

Below is generated by plot.py at 2017-12-06 01:09:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.13 Mbit/s
95th percentile per-packet one-way delay: 1.703 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 60.03 Mbit/s
95th percentile per-packet one-way delay: 3.402 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 33.70 Mbit/s
95th percentile per-packet one-way delay: -3.935 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 44.18 Mbit/s
95th percentile per-packet one-way delay: -5.424 ms
Loss rate: 0.00%

Run 3: Report of TCP Vegas — Data Link

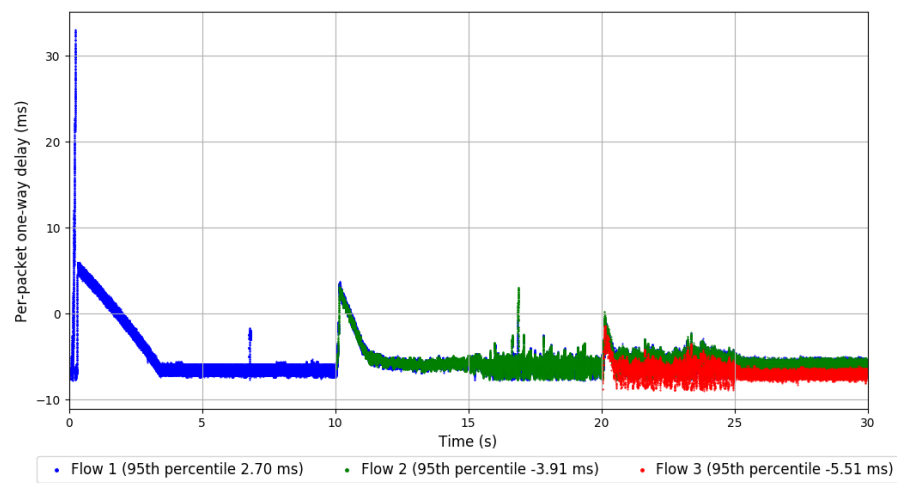
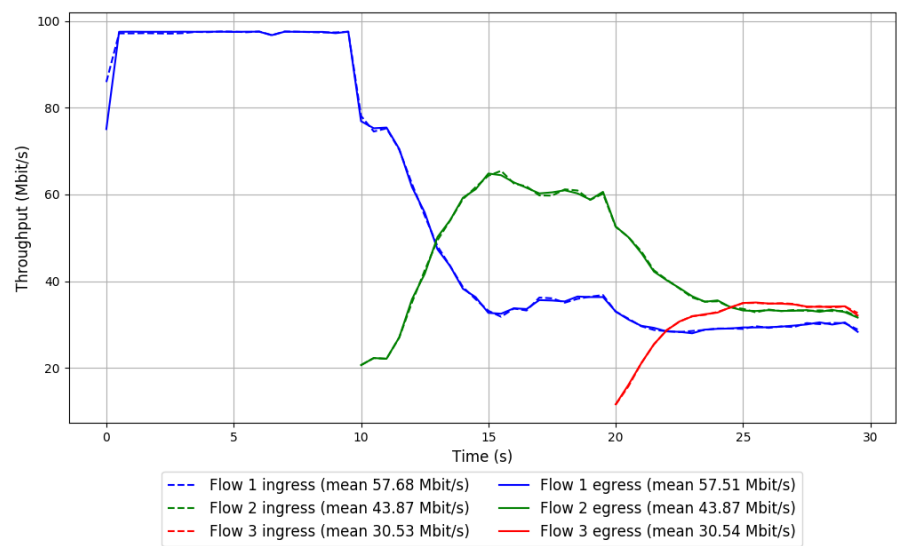


Run 4: Statistics of TCP Vegas

Start at: 2017-12-05 22:49:50
End at: 2017-12-05 22:50:20
Local clock offset: 5.493 ms
Remote clock offset: -11.516 ms

Below is generated by plot.py at 2017-12-06 01:09:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.85 Mbit/s
95th percentile per-packet one-way delay: 1.209 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 57.51 Mbit/s
95th percentile per-packet one-way delay: 2.700 ms
Loss rate: 0.29%
-- Flow 2:
Average throughput: 43.87 Mbit/s
95th percentile per-packet one-way delay: -3.910 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 30.54 Mbit/s
95th percentile per-packet one-way delay: -5.515 ms
Loss rate: 0.00%

Run 4: Report of TCP Vegas — Data Link

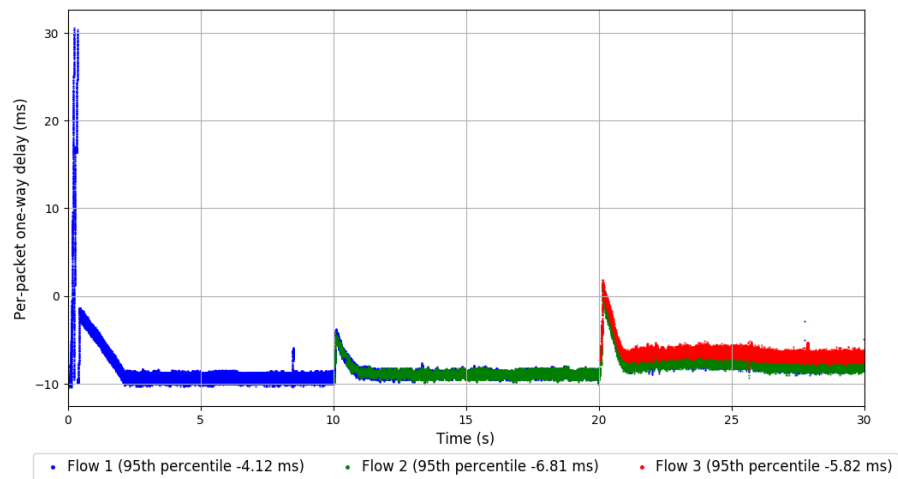
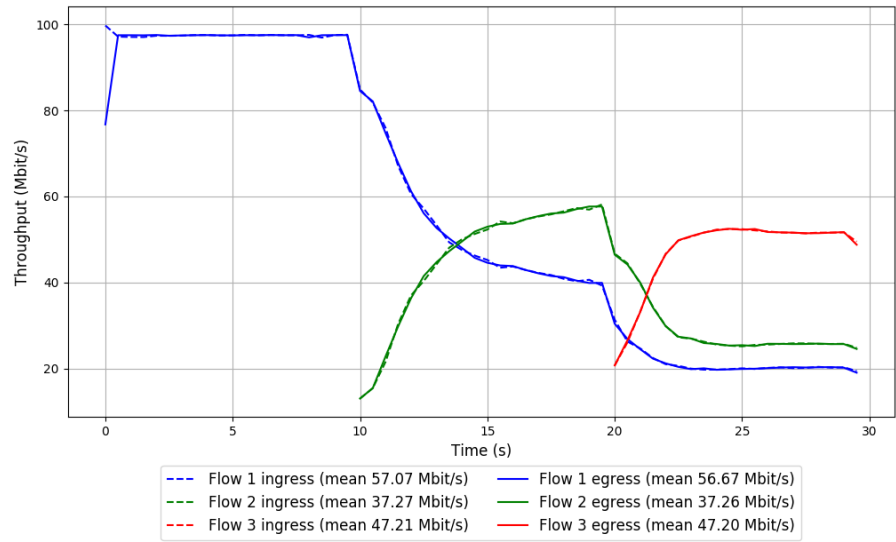


Run 5: Statistics of TCP Vegas

Start at: 2017-12-05 23:06:21
End at: 2017-12-05 23:06:51
Local clock offset: 7.196 ms
Remote clock offset: -11.324 ms

Below is generated by plot.py at 2017-12-06 01:09:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.14 Mbit/s
95th percentile per-packet one-way delay: -4.853 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 56.67 Mbit/s
95th percentile per-packet one-way delay: -4.115 ms
Loss rate: 0.69%
-- Flow 2:
Average throughput: 37.26 Mbit/s
95th percentile per-packet one-way delay: -6.813 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 47.20 Mbit/s
95th percentile per-packet one-way delay: -5.823 ms
Loss rate: 0.00%

Run 5: Report of TCP Vegas — Data Link

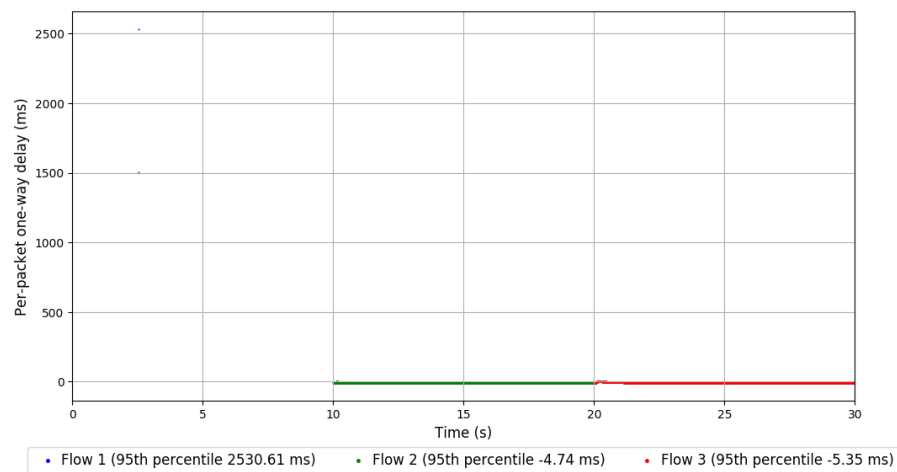
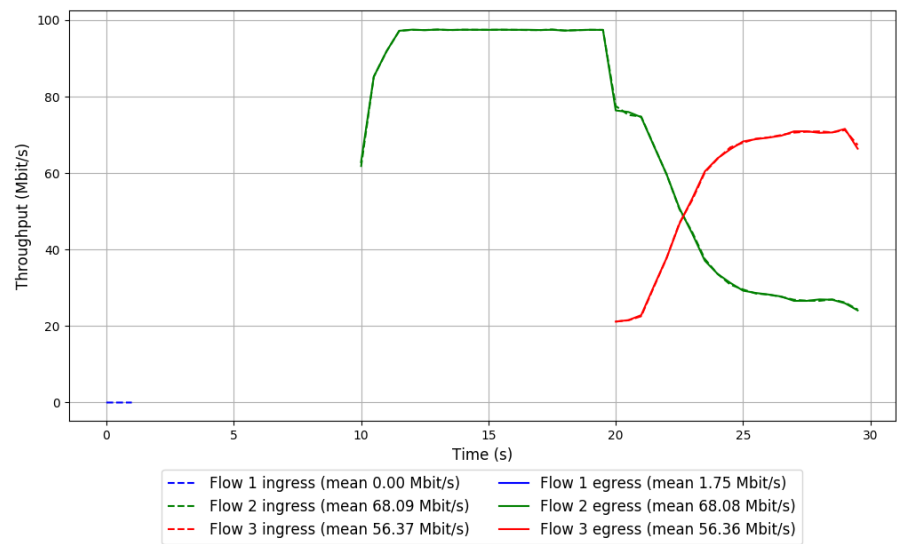


Run 6: Statistics of TCP Vegas

Start at: 2017-12-05 23:22:48
End at: 2017-12-05 23:23:18
Local clock offset: 5.963 ms
Remote clock offset: -10.377 ms

Below is generated by plot.py at 2017-12-06 01:09:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 69.98 Mbit/s
95th percentile per-packet one-way delay: -5.004 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.75 Mbit/s
95th percentile per-packet one-way delay: 2530.605 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 68.08 Mbit/s
95th percentile per-packet one-way delay: -4.740 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 56.36 Mbit/s
95th percentile per-packet one-way delay: -5.353 ms
Loss rate: 0.00%

Run 6: Report of TCP Vegas — Data Link

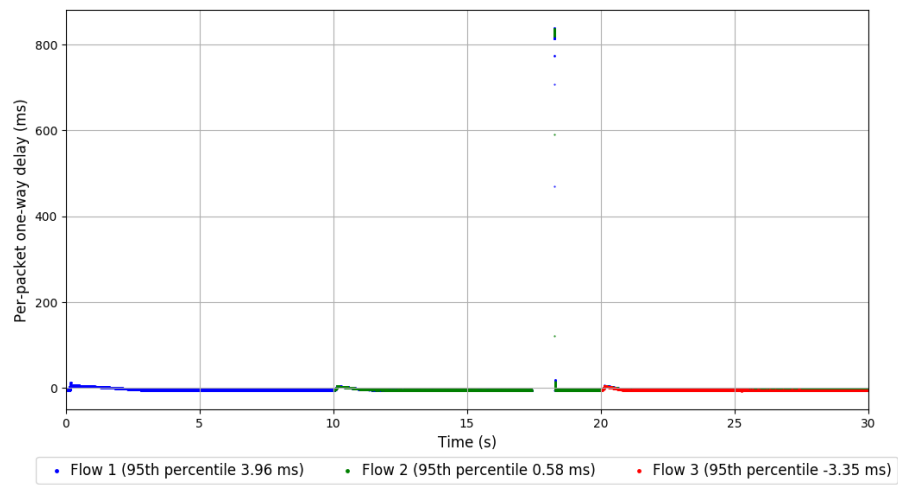
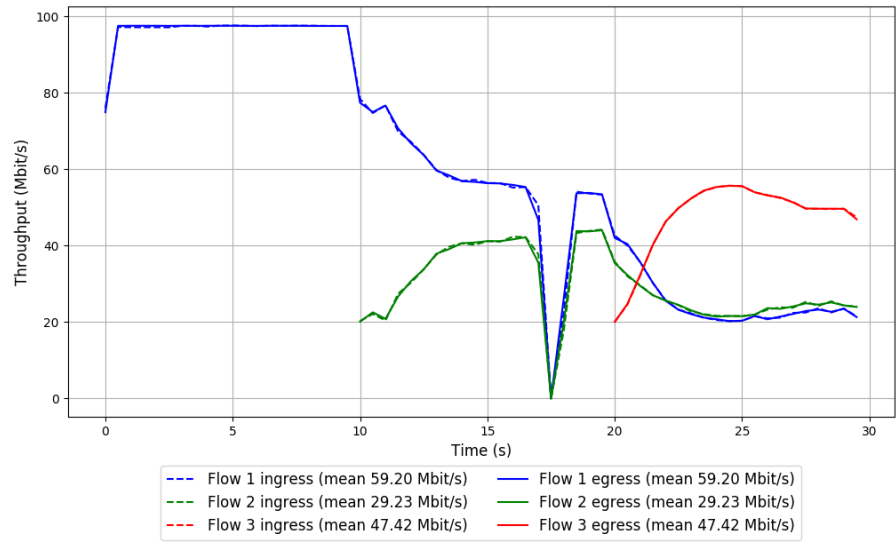


Run 7: Statistics of TCP Vegas

Start at: 2017-12-05 23:39:06
End at: 2017-12-05 23:39:36
Local clock offset: 1.77 ms
Remote clock offset: -12.657 ms

Below is generated by plot.py at 2017-12-06 01:09:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 94.41 Mbit/s
95th percentile per-packet one-way delay: 3.042 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 59.20 Mbit/s
95th percentile per-packet one-way delay: 3.956 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 29.23 Mbit/s
95th percentile per-packet one-way delay: 0.577 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 47.42 Mbit/s
95th percentile per-packet one-way delay: -3.354 ms
Loss rate: 0.00%

Run 7: Report of TCP Vegas — Data Link

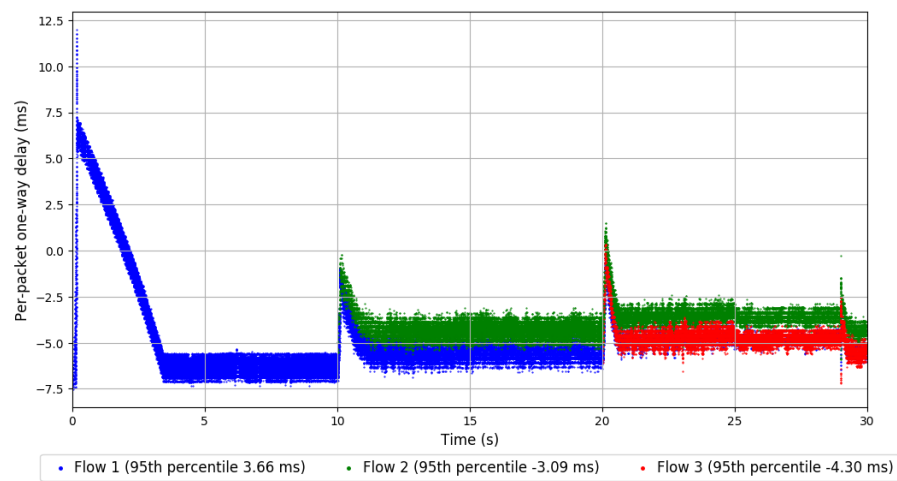
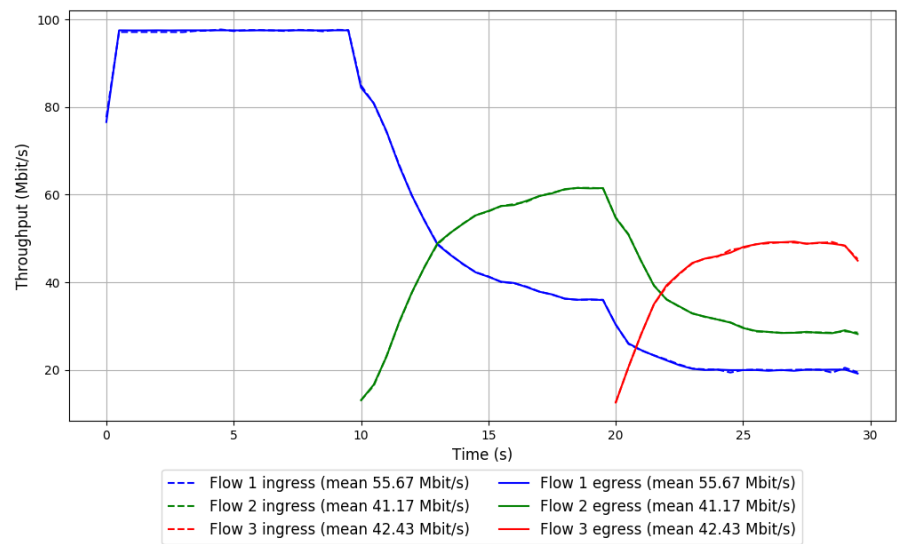


Run 8: Statistics of TCP Vegas

Start at: 2017-12-05 23:55:41
End at: 2017-12-05 23:56:11
Local clock offset: 3.563 ms
Remote clock offset: -11.493 ms

Below is generated by plot.py at 2017-12-06 01:10:05
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.17 Mbit/s
95th percentile per-packet one-way delay: 1.385 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 55.67 Mbit/s
95th percentile per-packet one-way delay: 3.659 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 41.17 Mbit/s
95th percentile per-packet one-way delay: -3.089 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 42.43 Mbit/s
95th percentile per-packet one-way delay: -4.305 ms
Loss rate: 0.00%

Run 8: Report of TCP Vegas — Data Link

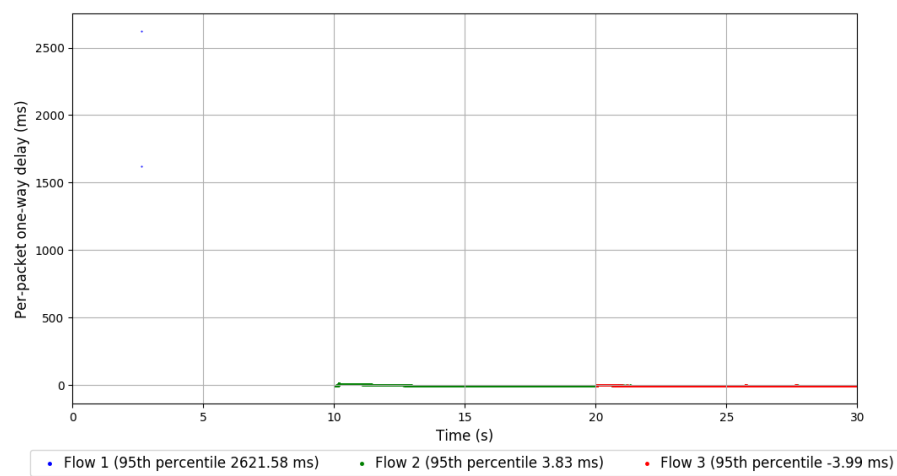
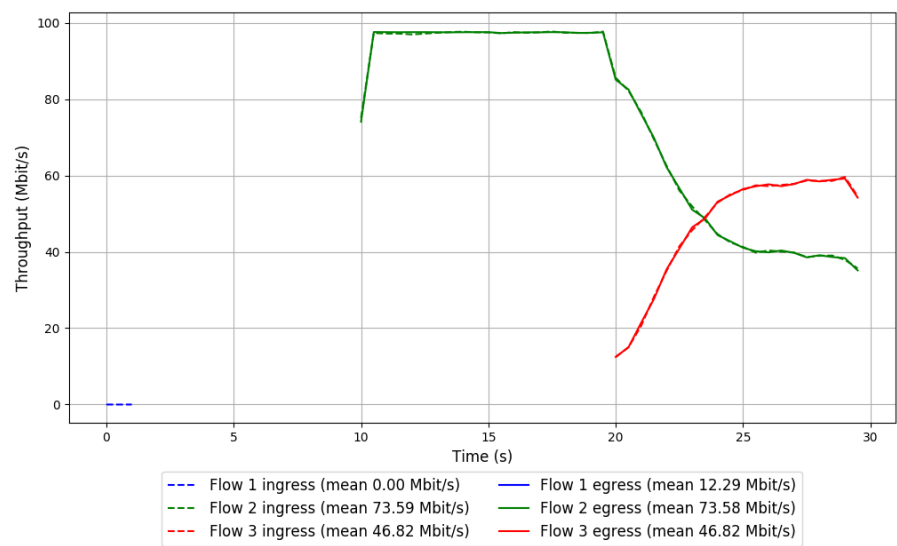


Run 9: Statistics of TCP Vegas

Start at: 2017-12-06 00:12:03
End at: 2017-12-06 00:12:33
Local clock offset: 3.307 ms
Remote clock offset: -13.116 ms

Below is generated by plot.py at 2017-12-06 01:10:05
Datalink statistics
-- Total of 3 flows:
Average throughput: 70.75 Mbit/s
95th percentile per-packet one-way delay: 3.021 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 12.29 Mbit/s
95th percentile per-packet one-way delay: 2621.580 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 73.58 Mbit/s
95th percentile per-packet one-way delay: 3.835 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 46.82 Mbit/s
95th percentile per-packet one-way delay: -3.990 ms
Loss rate: 0.00%

Run 9: Report of TCP Vegas — Data Link

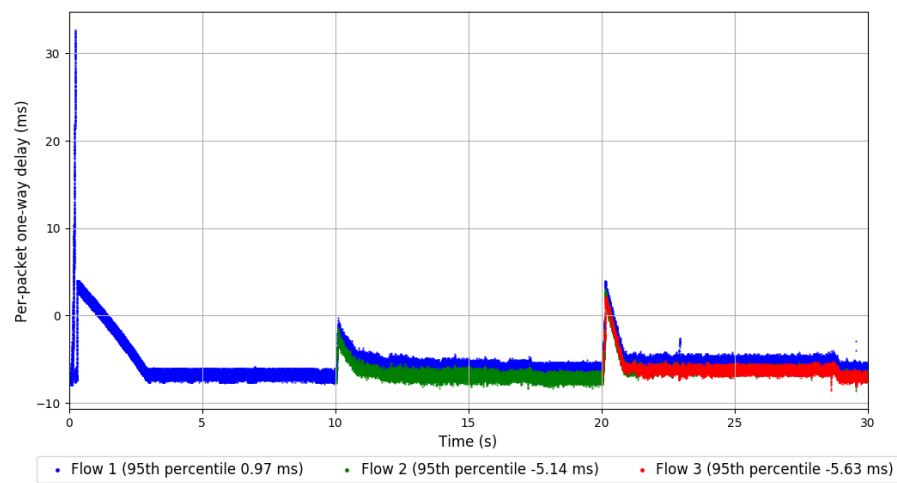
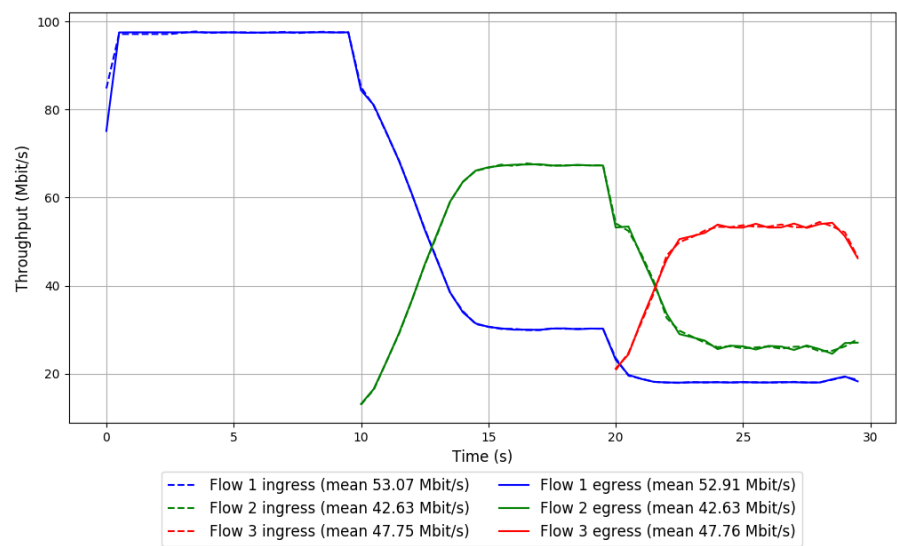


Run 10: Statistics of TCP Vegas

Start at: 2017-12-06 00:28:34
End at: 2017-12-06 00:29:04
Local clock offset: 4.271 ms
Remote clock offset: -13.888 ms

Below is generated by plot.py at 2017-12-06 01:10:07
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.15 Mbit/s
95th percentile per-packet one-way delay: -0.723 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 52.91 Mbit/s
95th percentile per-packet one-way delay: 0.971 ms
Loss rate: 0.29%
-- Flow 2:
Average throughput: 42.63 Mbit/s
95th percentile per-packet one-way delay: -5.140 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 47.76 Mbit/s
95th percentile per-packet one-way delay: -5.633 ms
Loss rate: 0.00%

Run 10: Report of TCP Vegas — Data Link

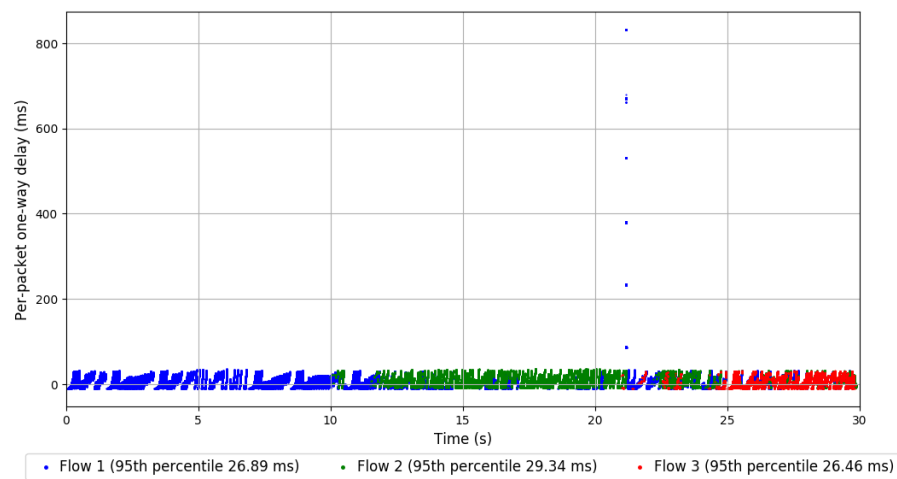
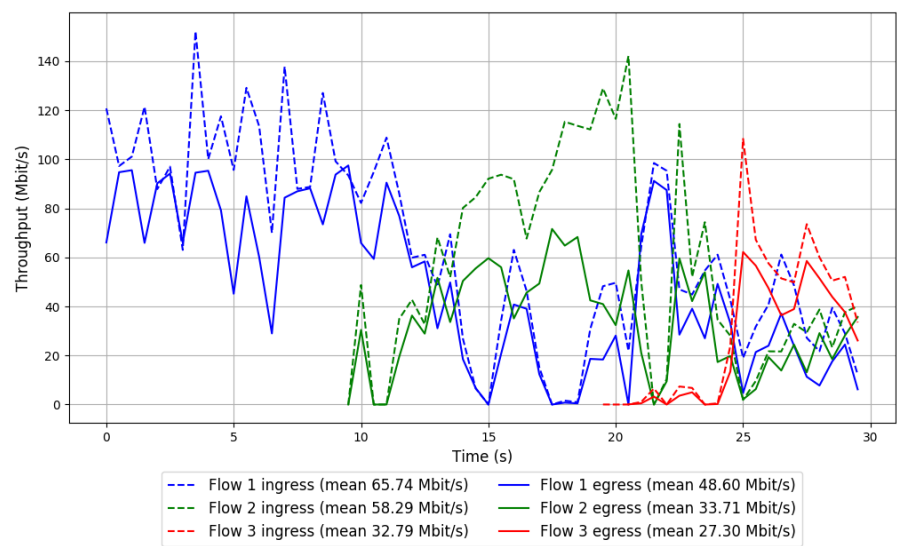


Run 1: Statistics of Verus

Start at: 2017-12-05 21:57:49
End at: 2017-12-05 21:58:19
Local clock offset: 6.242 ms
Remote clock offset: -11.493 ms

Below is generated by plot.py at 2017-12-06 01:10:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 78.78 Mbit/s
95th percentile per-packet one-way delay: 27.673 ms
Loss rate: 31.45%
-- Flow 1:
Average throughput: 48.60 Mbit/s
95th percentile per-packet one-way delay: 26.895 ms
Loss rate: 26.05%
-- Flow 2:
Average throughput: 33.71 Mbit/s
95th percentile per-packet one-way delay: 29.338 ms
Loss rate: 42.21%
-- Flow 3:
Average throughput: 27.30 Mbit/s
95th percentile per-packet one-way delay: 26.457 ms
Loss rate: 25.34%

Run 1: Report of Verus — Data Link

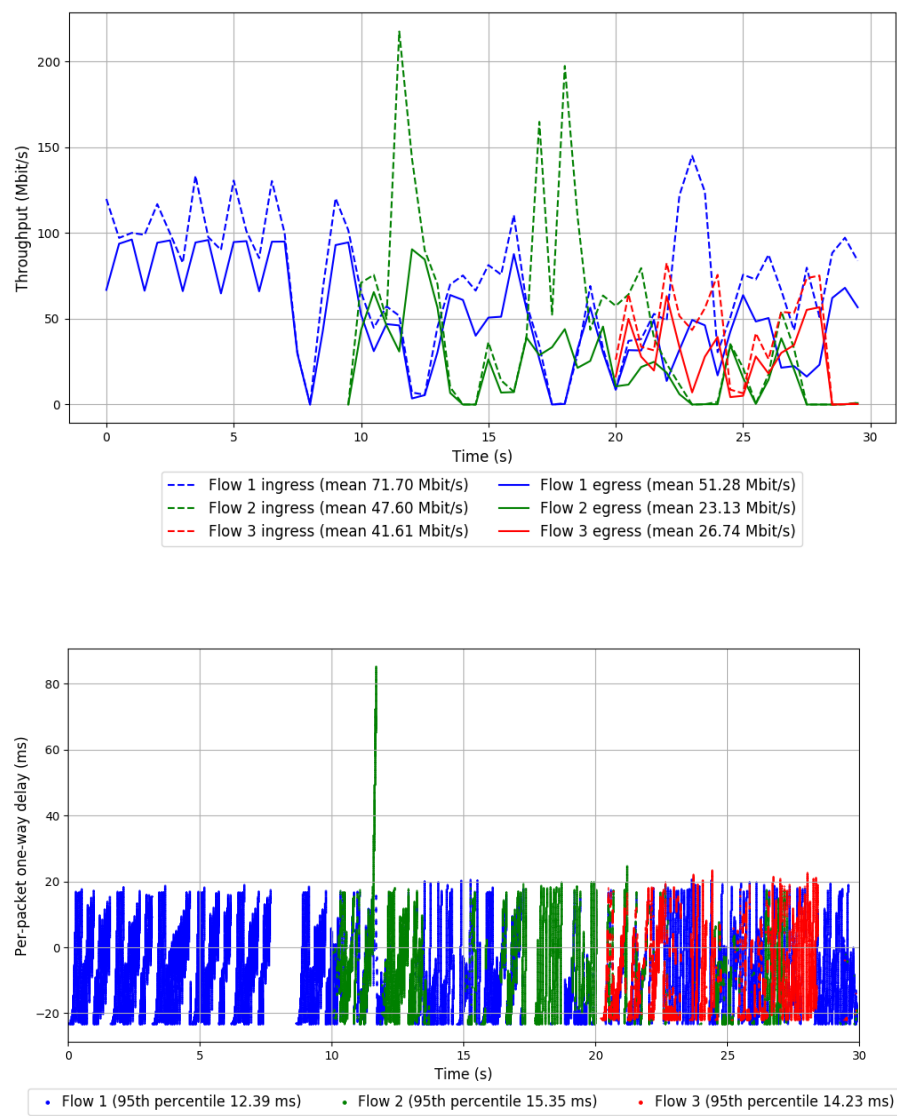


Run 2: Statistics of Verus

Start at: 2017-12-05 22:14:25
End at: 2017-12-05 22:14:55
Local clock offset: 18.967 ms
Remote clock offset: -12.367 ms

Below is generated by plot.py at 2017-12-06 01:10:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 75.33 Mbit/s
95th percentile per-packet one-way delay: 13.253 ms
Loss rate: 35.54%
-- Flow 1:
Average throughput: 51.28 Mbit/s
95th percentile per-packet one-way delay: 12.388 ms
Loss rate: 28.47%
-- Flow 2:
Average throughput: 23.13 Mbit/s
95th percentile per-packet one-way delay: 15.348 ms
Loss rate: 51.46%
-- Flow 3:
Average throughput: 26.74 Mbit/s
95th percentile per-packet one-way delay: 14.234 ms
Loss rate: 35.71%

Run 2: Report of Verus — Data Link

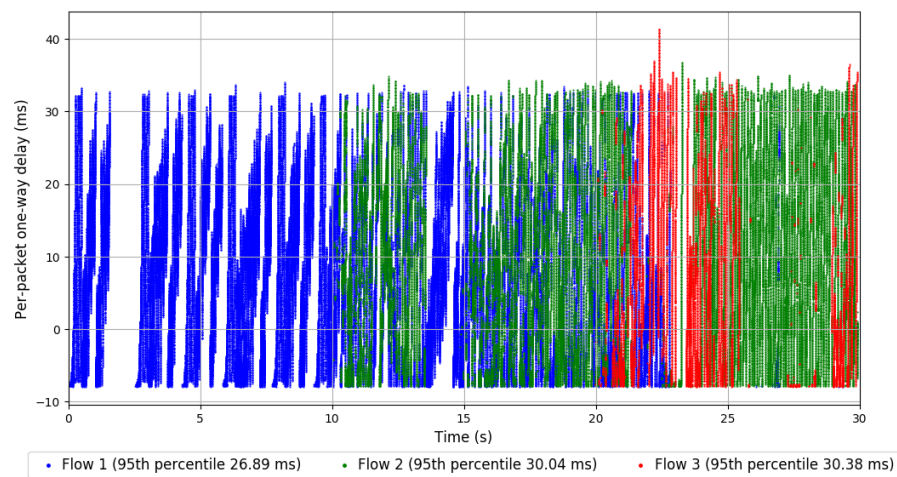
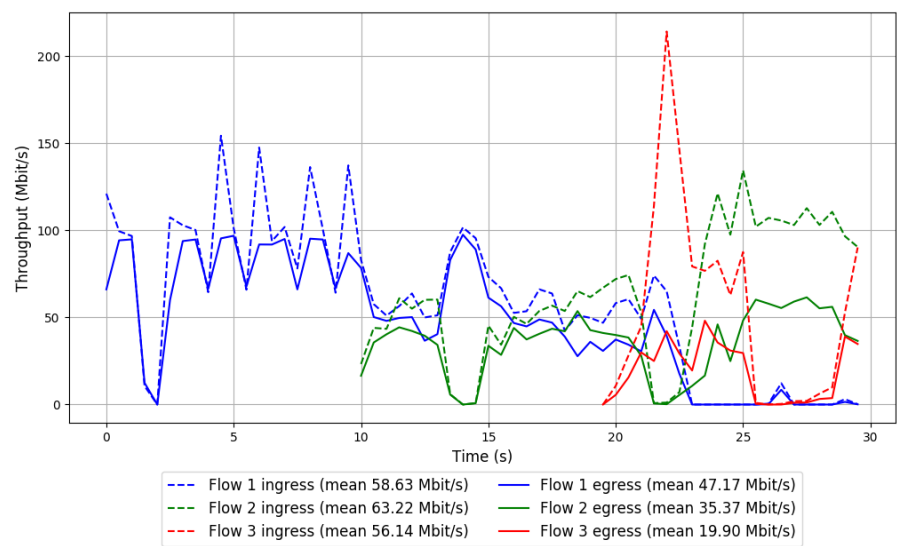


Run 3: Statistics of Verus

Start at: 2017-12-05 22:31:00
End at: 2017-12-05 22:31:30
Local clock offset: 5.674 ms
Remote clock offset: -10.082 ms

Below is generated by plot.py at 2017-12-06 01:10:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 77.20 Mbit/s
95th percentile per-packet one-way delay: 28.495 ms
Loss rate: 35.25%
-- Flow 1:
Average throughput: 47.17 Mbit/s
95th percentile per-packet one-way delay: 26.891 ms
Loss rate: 19.62%
-- Flow 2:
Average throughput: 35.37 Mbit/s
95th percentile per-packet one-way delay: 30.043 ms
Loss rate: 44.09%
-- Flow 3:
Average throughput: 19.90 Mbit/s
95th percentile per-packet one-way delay: 30.378 ms
Loss rate: 64.50%

Run 3: Report of Verus — Data Link

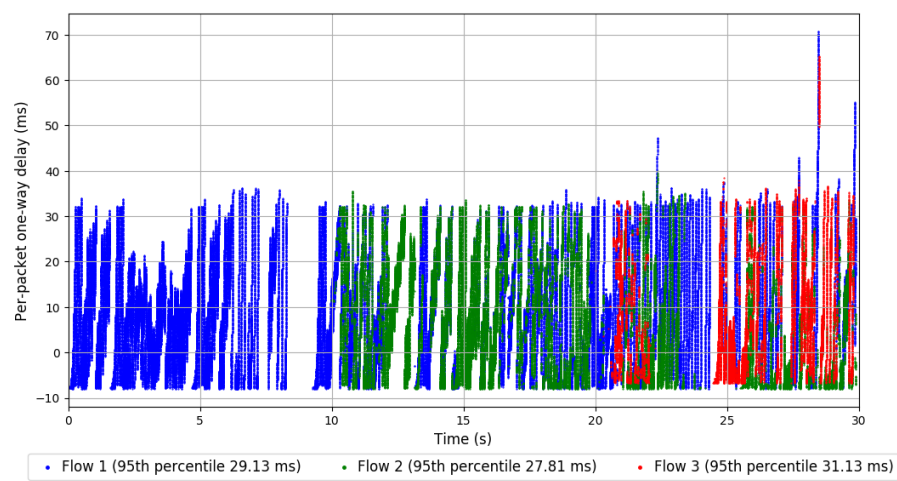
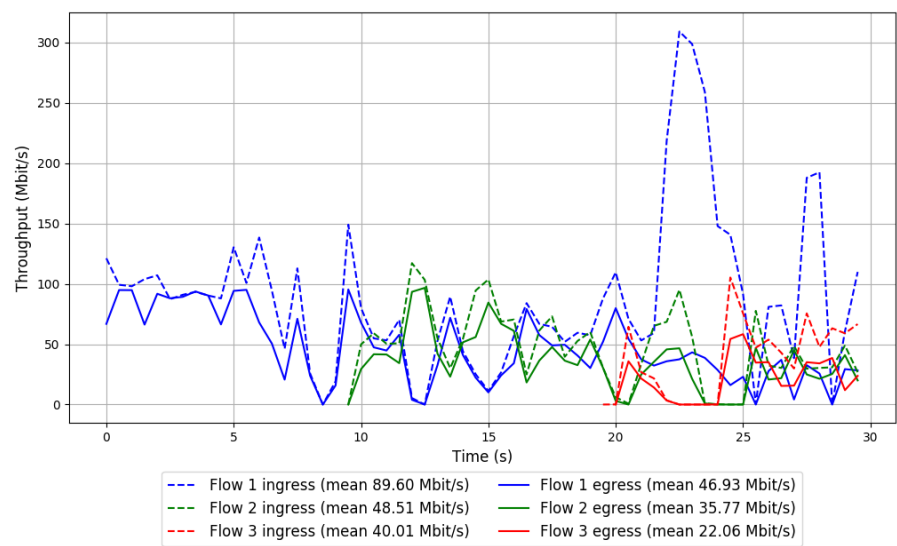


Run 4: Statistics of Verus

Start at: 2017-12-05 22:47:25
End at: 2017-12-05 22:47:55
Local clock offset: 3.383 ms
Remote clock offset: -12.564 ms

Below is generated by plot.py at 2017-12-06 01:10:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 77.96 Mbit/s
95th percentile per-packet one-way delay: 28.875 ms
Loss rate: 42.21%
-- Flow 1:
Average throughput: 46.93 Mbit/s
95th percentile per-packet one-way delay: 29.129 ms
Loss rate: 47.56%
-- Flow 2:
Average throughput: 35.77 Mbit/s
95th percentile per-packet one-way delay: 27.808 ms
Loss rate: 26.34%
-- Flow 3:
Average throughput: 22.06 Mbit/s
95th percentile per-packet one-way delay: 31.133 ms
Loss rate: 44.83%

Run 4: Report of Verus — Data Link

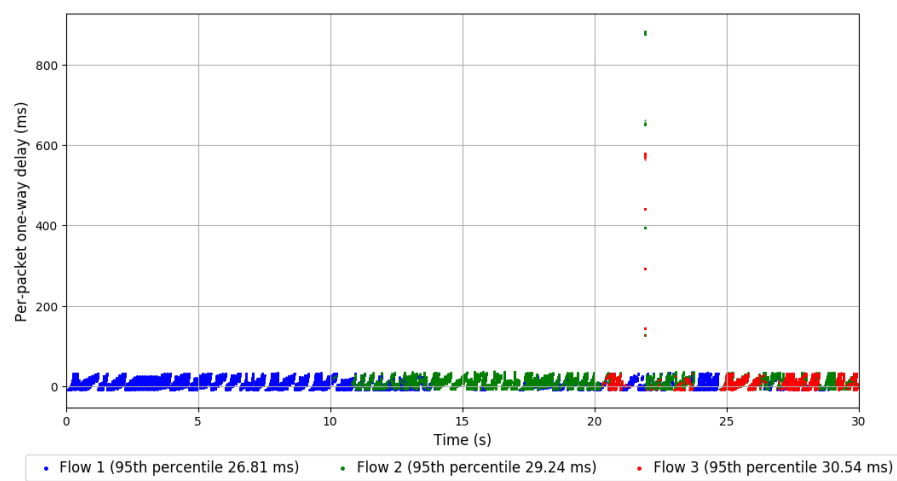
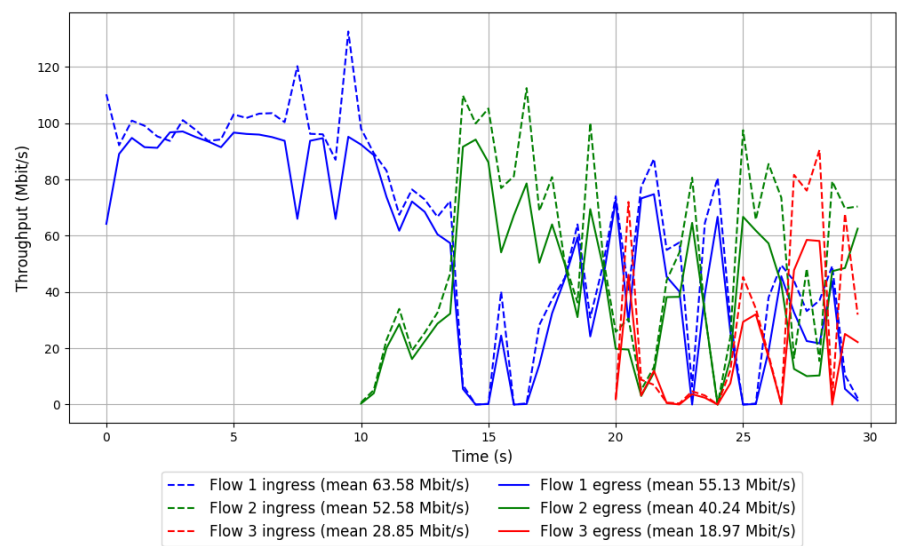


Run 5: Statistics of Verus

Start at: 2017-12-05 23:03:59
End at: 2017-12-05 23:04:29
Local clock offset: 2.869 ms
Remote clock offset: -13.299 ms

Below is generated by plot.py at 2017-12-06 01:10:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 87.69 Mbit/s
95th percentile per-packet one-way delay: 27.855 ms
Loss rate: 18.46%
-- Flow 1:
Average throughput: 55.13 Mbit/s
95th percentile per-packet one-way delay: 26.814 ms
Loss rate: 13.36%
-- Flow 2:
Average throughput: 40.24 Mbit/s
95th percentile per-packet one-way delay: 29.236 ms
Loss rate: 23.49%
-- Flow 3:
Average throughput: 18.97 Mbit/s
95th percentile per-packet one-way delay: 30.539 ms
Loss rate: 34.21%

Run 5: Report of Verus — Data Link

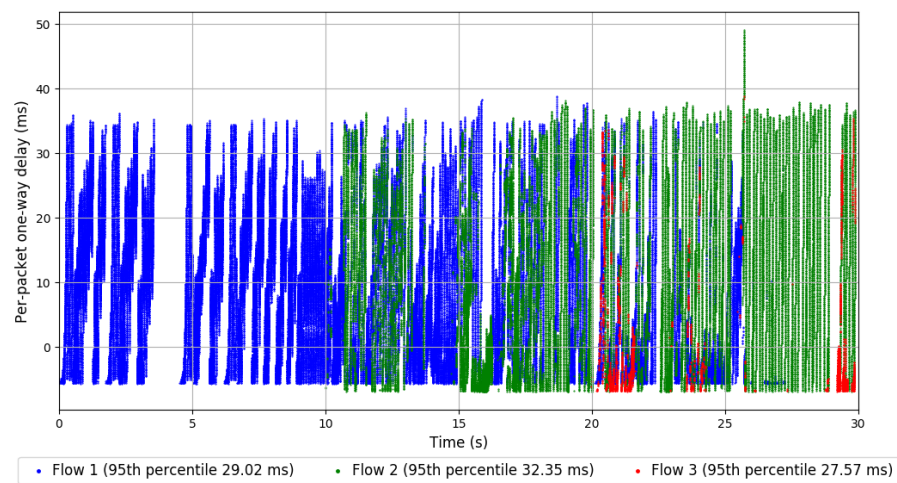
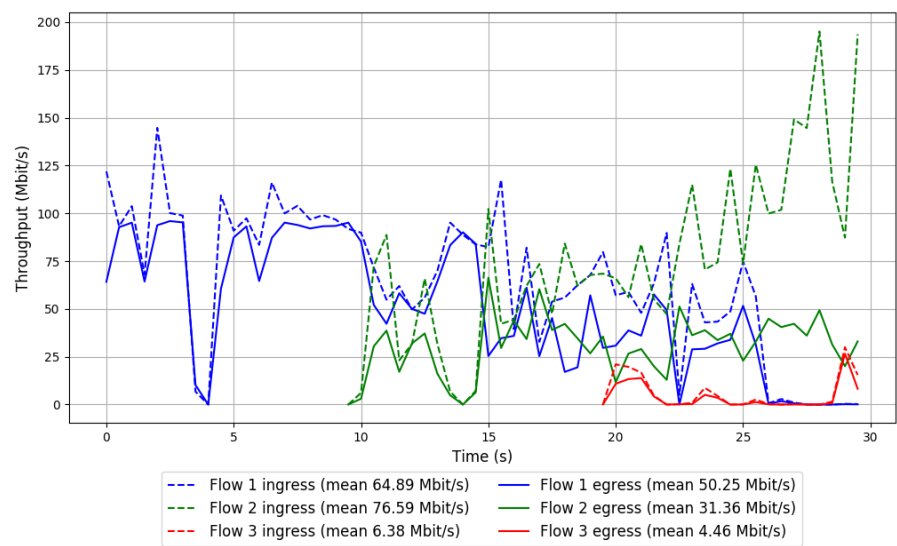


Run 6: Statistics of Verus

Start at: 2017-12-05 23:20:26
End at: 2017-12-05 23:20:56
Local clock offset: 3.813 ms
Remote clock offset: -11.262 ms

Below is generated by plot.py at 2017-12-06 01:11:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 72.53 Mbit/s
95th percentile per-packet one-way delay: 30.254 ms
Loss rate: 38.52%
-- Flow 1:
Average throughput: 50.25 Mbit/s
95th percentile per-packet one-way delay: 29.019 ms
Loss rate: 22.63%
-- Flow 2:
Average throughput: 31.36 Mbit/s
95th percentile per-packet one-way delay: 32.346 ms
Loss rate: 59.06%
-- Flow 3:
Average throughput: 4.46 Mbit/s
95th percentile per-packet one-way delay: 27.568 ms
Loss rate: 30.05%

Run 6: Report of Verus — Data Link

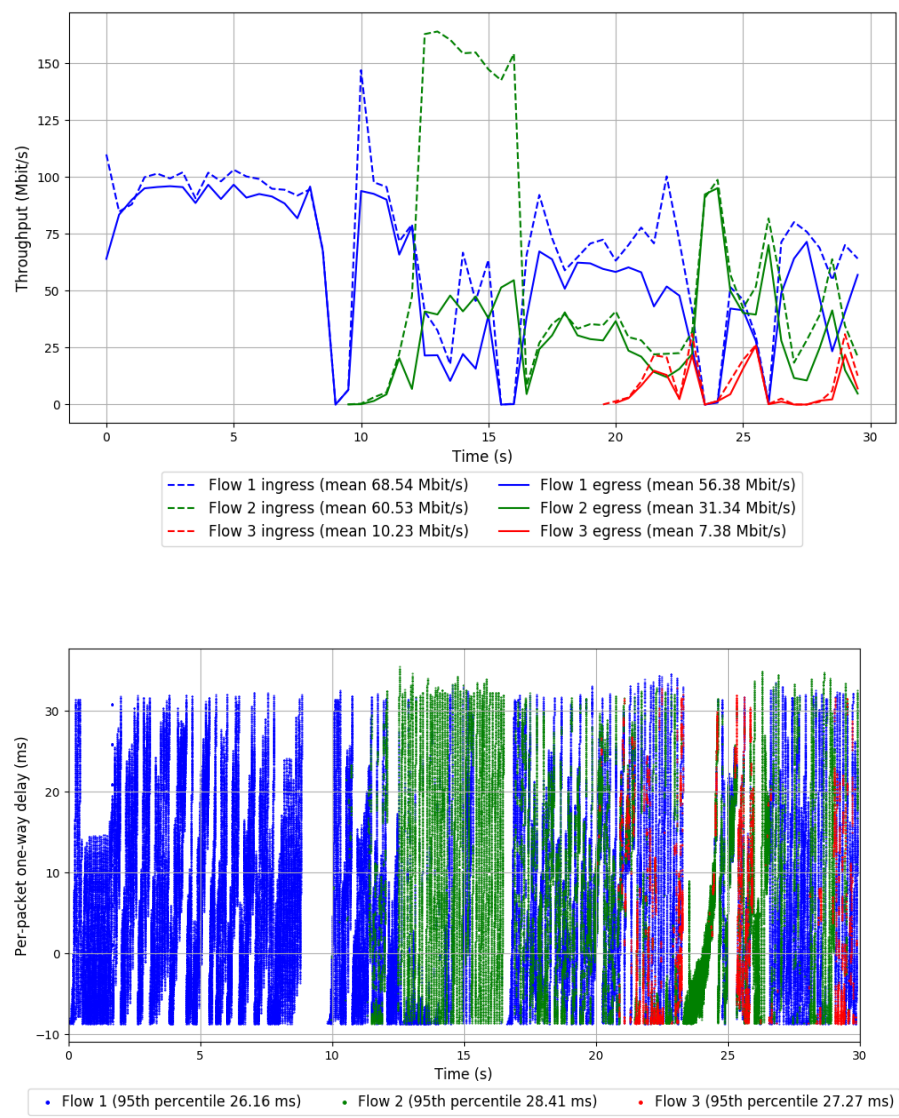


Run 7: Statistics of Verus

Start at: 2017-12-05 23:36:43
End at: 2017-12-05 23:37:13
Local clock offset: 4.283 ms
Remote clock offset: -11.979 ms

Below is generated by plot.py at 2017-12-06 01:11:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 79.69 Mbit/s
95th percentile per-packet one-way delay: 26.889 ms
Loss rate: 28.93%
-- Flow 1:
Average throughput: 56.38 Mbit/s
95th percentile per-packet one-way delay: 26.159 ms
Loss rate: 17.67%
-- Flow 2:
Average throughput: 31.34 Mbit/s
95th percentile per-packet one-way delay: 28.409 ms
Loss rate: 48.14%
-- Flow 3:
Average throughput: 7.38 Mbit/s
95th percentile per-packet one-way delay: 27.275 ms
Loss rate: 27.91%

Run 7: Report of Verus — Data Link

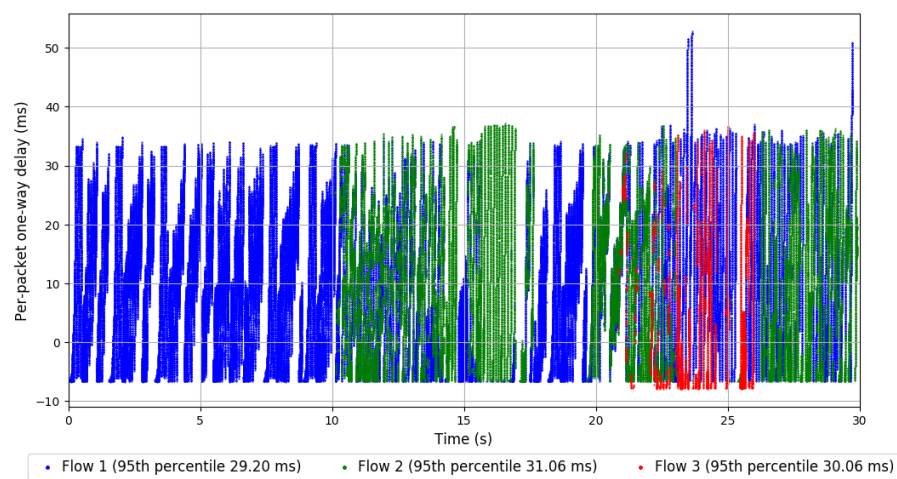
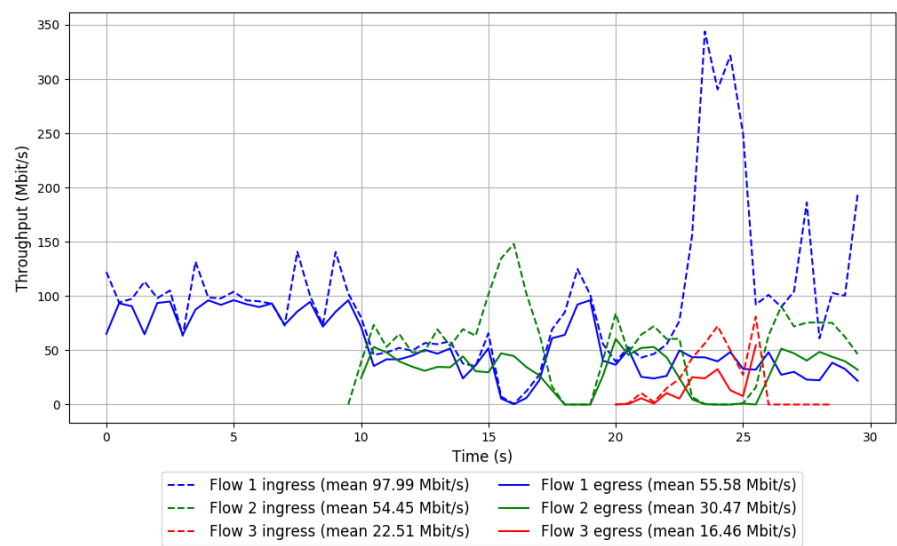


Run 8: Statistics of Verus

Start at: 2017-12-05 23:53:19
End at: 2017-12-05 23:53:49
Local clock offset: 3.935 ms
Remote clock offset: -11.353 ms

Below is generated by plot.py at 2017-12-06 01:11:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 78.53 Mbit/s
95th percentile per-packet one-way delay: 29.859 ms
Loss rate: 43.87%
-- Flow 1:
Average throughput: 55.58 Mbit/s
95th percentile per-packet one-way delay: 29.202 ms
Loss rate: 43.20%
-- Flow 2:
Average throughput: 30.47 Mbit/s
95th percentile per-packet one-way delay: 31.056 ms
Loss rate: 44.08%
-- Flow 3:
Average throughput: 16.46 Mbit/s
95th percentile per-packet one-way delay: 30.061 ms
Loss rate: 52.72%

Run 8: Report of Verus — Data Link

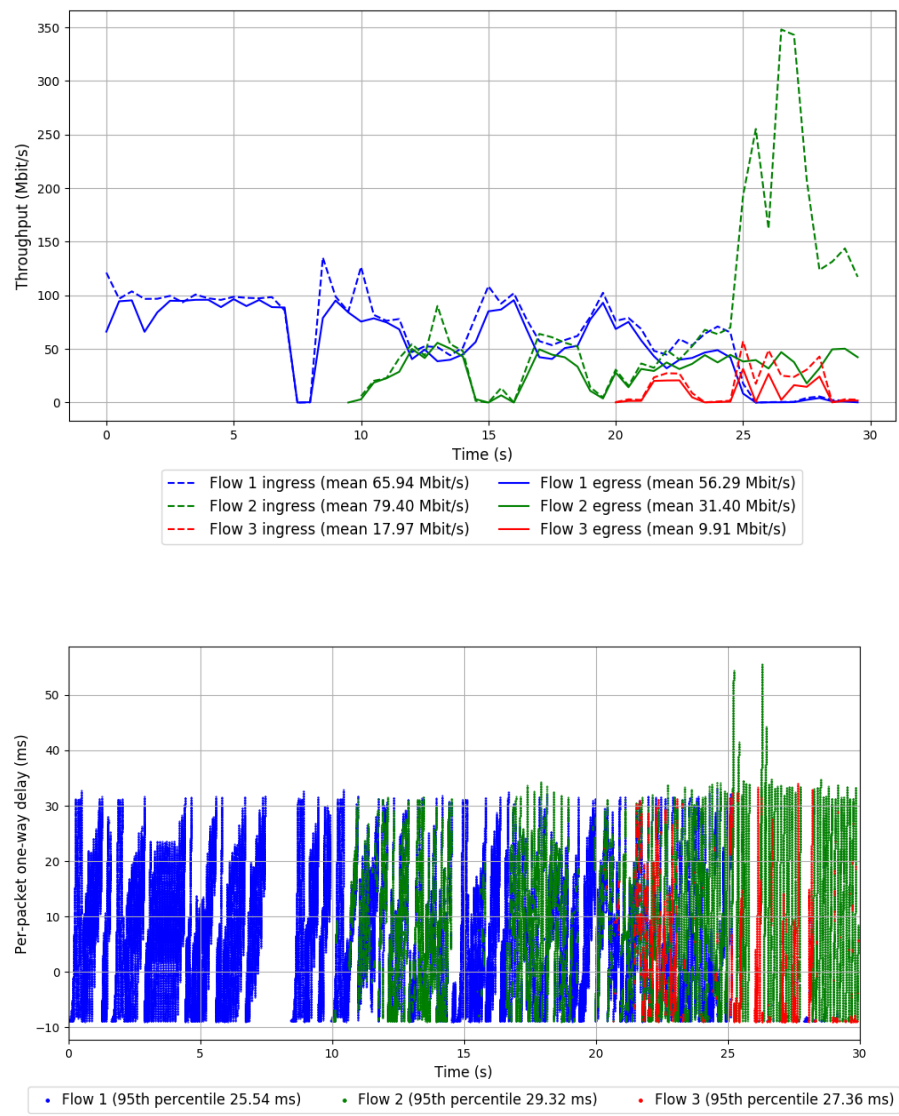


Run 9: Statistics of Verus

Start at: 2017-12-06 00:09:39
End at: 2017-12-06 00:10:09
Local clock offset: 5.654 ms
Remote clock offset: -12.441 ms

Below is generated by plot.py at 2017-12-06 01:11:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 80.37 Mbit/s
95th percentile per-packet one-way delay: 26.817 ms
Loss rate: 35.47%
-- Flow 1:
Average throughput: 56.29 Mbit/s
95th percentile per-packet one-way delay: 25.536 ms
Loss rate: 14.62%
-- Flow 2:
Average throughput: 31.40 Mbit/s
95th percentile per-packet one-way delay: 29.319 ms
Loss rate: 60.42%
-- Flow 3:
Average throughput: 9.91 Mbit/s
95th percentile per-packet one-way delay: 27.358 ms
Loss rate: 44.96%

Run 9: Report of Verus — Data Link

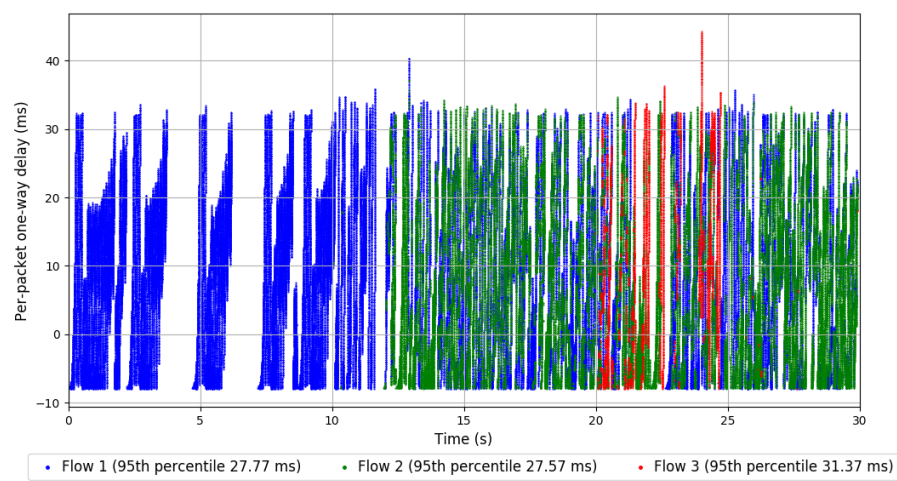
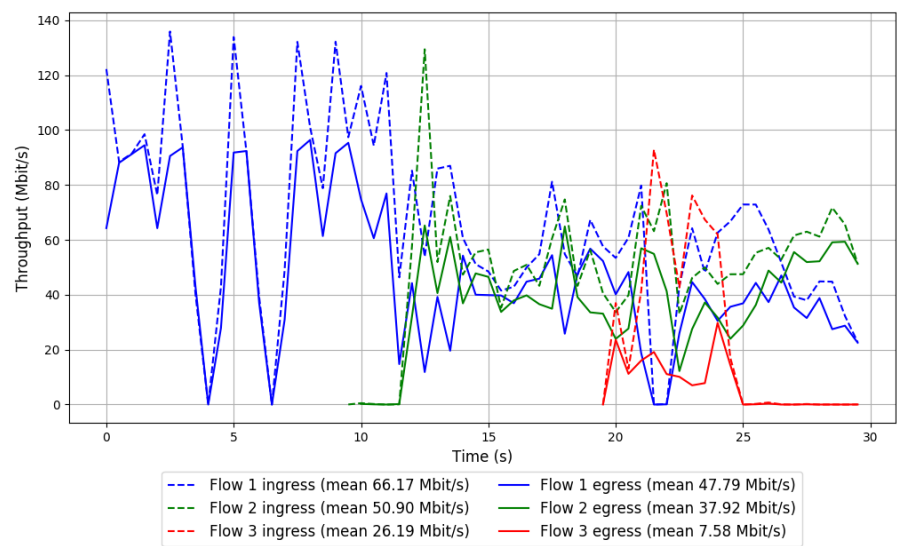


Run 10: Statistics of Verus

Start at: 2017-12-06 00:26:12
End at: 2017-12-06 00:26:42
Local clock offset: 5.702 ms
Remote clock offset: -12.439 ms

Below is generated by plot.py at 2017-12-06 01:11:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 75.54 Mbit/s
95th percentile per-packet one-way delay: 27.951 ms
Loss rate: 30.49%
-- Flow 1:
Average throughput: 47.79 Mbit/s
95th percentile per-packet one-way delay: 27.775 ms
Loss rate: 27.70%
-- Flow 2:
Average throughput: 37.92 Mbit/s
95th percentile per-packet one-way delay: 27.573 ms
Loss rate: 25.51%
-- Flow 3:
Average throughput: 7.58 Mbit/s
95th percentile per-packet one-way delay: 31.374 ms
Loss rate: 71.05%

Run 10: Report of Verus — Data Link

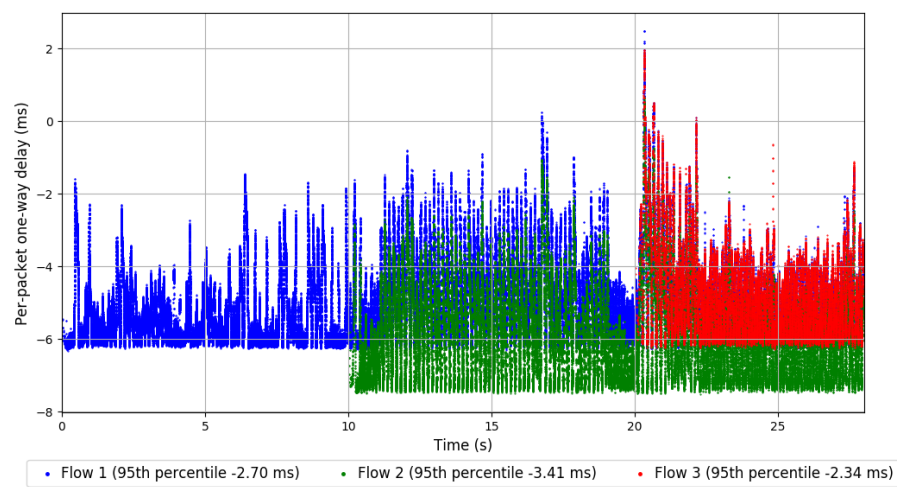
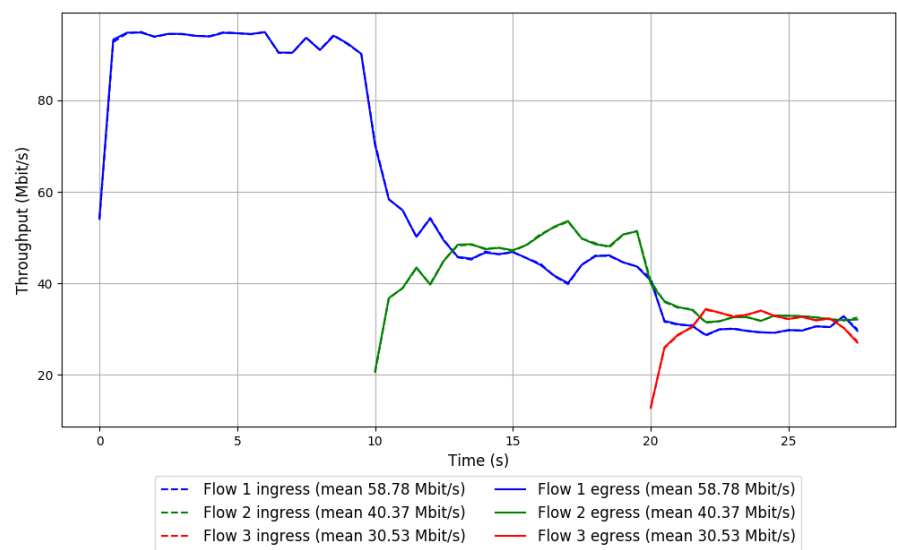


Run 1: Statistics of Copa

Start at: 2017-12-05 21:45:52
End at: 2017-12-05 21:46:22
Local clock offset: 5.134 ms
Remote clock offset: -11.319 ms

Below is generated by plot.py at 2017-12-06 01:12:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.37 Mbit/s
95th percentile per-packet one-way delay: -2.820 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 58.78 Mbit/s
95th percentile per-packet one-way delay: -2.702 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 40.37 Mbit/s
95th percentile per-packet one-way delay: -3.412 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 30.53 Mbit/s
95th percentile per-packet one-way delay: -2.344 ms
Loss rate: 0.00%

Run 1: Report of Copa — Data Link

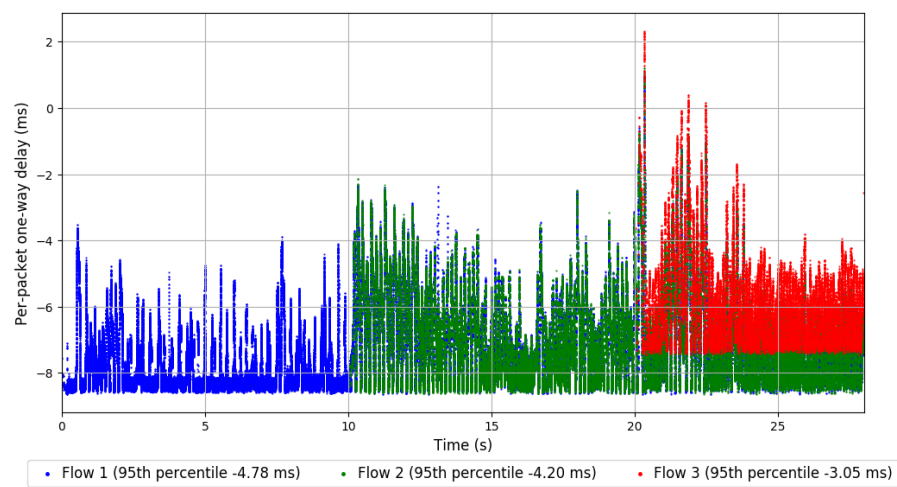
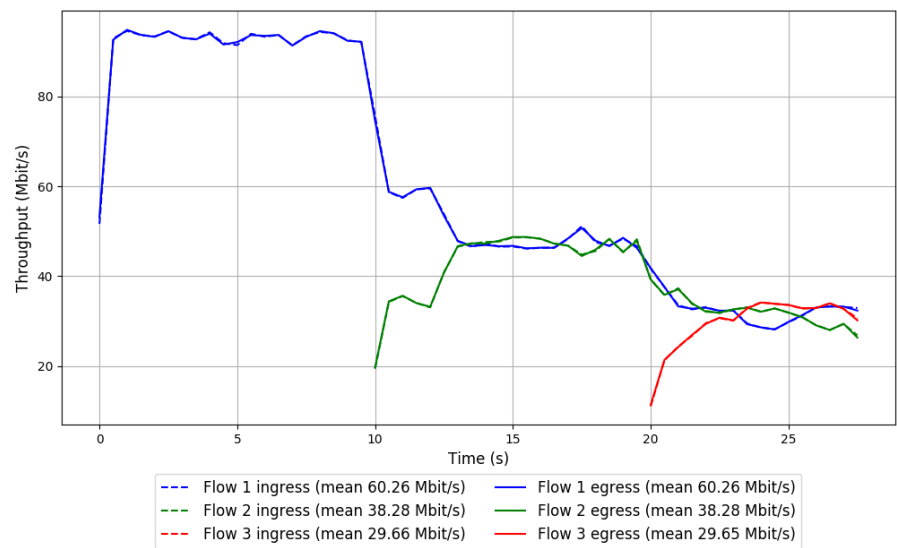


Run 2: Statistics of Copa

Start at: 2017-12-05 22:02:41
End at: 2017-12-05 22:03:11
Local clock offset: 6.046 ms
Remote clock offset: -10.898 ms

Below is generated by plot.py at 2017-12-06 01:13:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.25 Mbit/s
95th percentile per-packet one-way delay: -4.457 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 60.26 Mbit/s
95th percentile per-packet one-way delay: -4.782 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 38.28 Mbit/s
95th percentile per-packet one-way delay: -4.204 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 29.65 Mbit/s
95th percentile per-packet one-way delay: -3.047 ms
Loss rate: 0.01%

Run 2: Report of Copa — Data Link

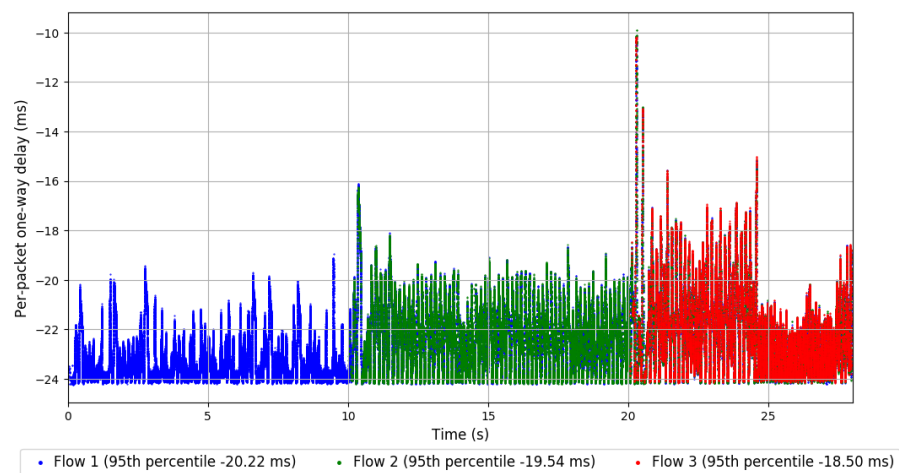
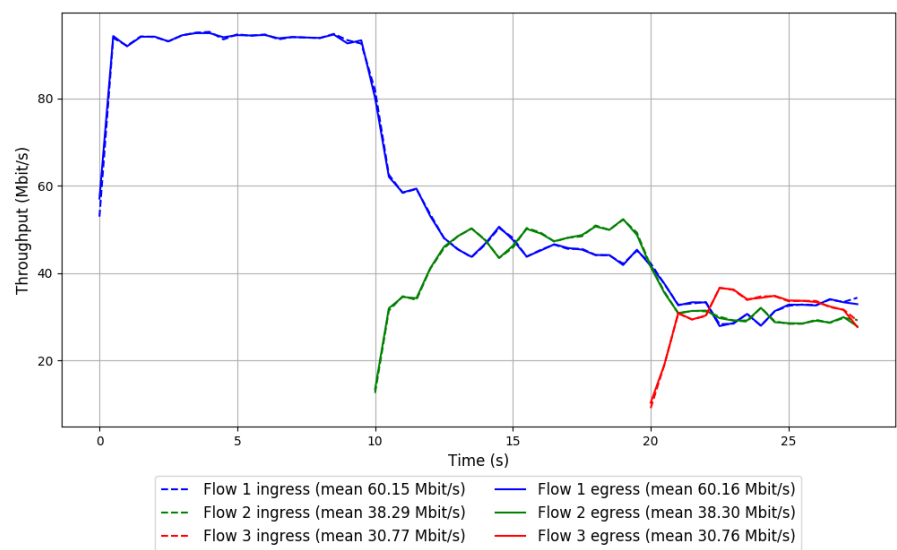


Run 3: Statistics of Copa

Start at: 2017-12-05 22:19:11
End at: 2017-12-05 22:19:41
Local clock offset: 19.448 ms
Remote clock offset: -13.979 ms

Below is generated by plot.py at 2017-12-06 01:13:15
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.47 Mbit/s
95th percentile per-packet one-way delay: -19.808 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 60.16 Mbit/s
95th percentile per-packet one-way delay: -20.218 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 38.30 Mbit/s
95th percentile per-packet one-way delay: -19.536 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 30.76 Mbit/s
95th percentile per-packet one-way delay: -18.500 ms
Loss rate: 0.01%

Run 3: Report of Copa — Data Link

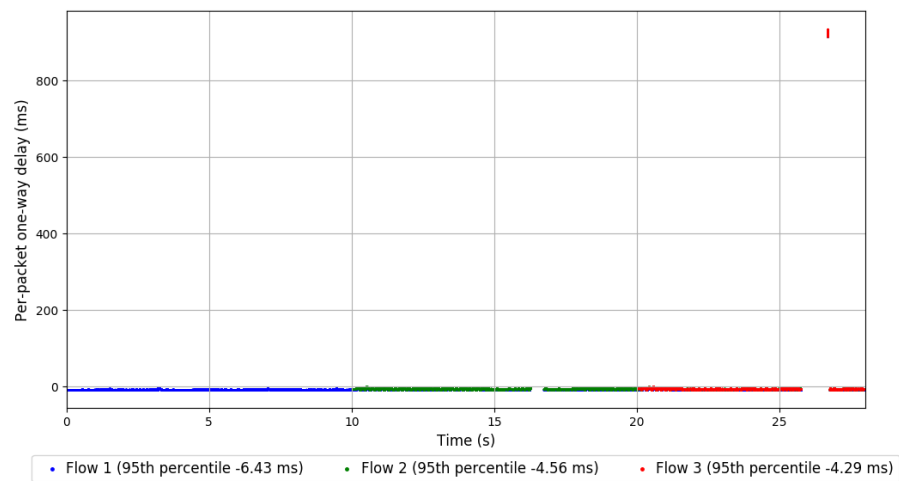
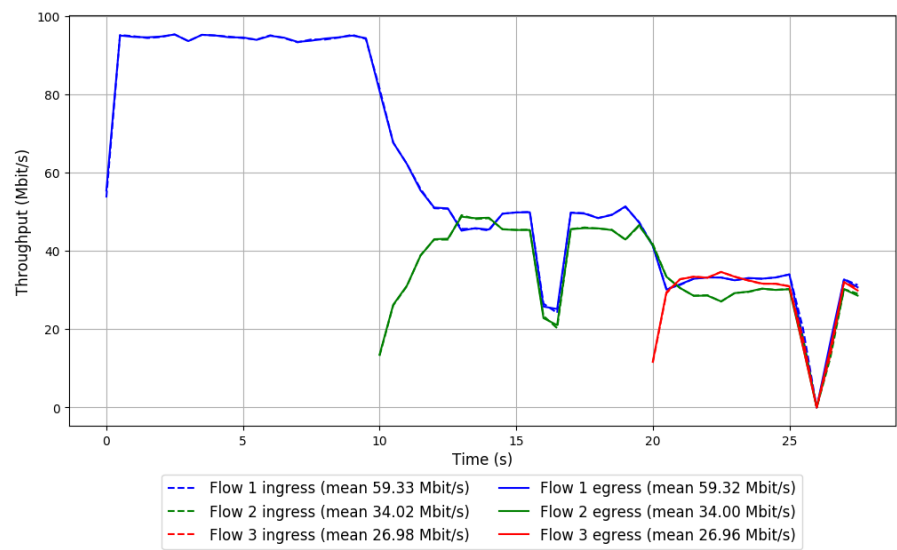


Run 4: Statistics of Copa

Start at: 2017-12-05 22:35:47
End at: 2017-12-05 22:36:17
Local clock offset: 6.852 ms
Remote clock offset: -10.999 ms

Below is generated by plot.py at 2017-12-06 01:13:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 88.80 Mbit/s
95th percentile per-packet one-way delay: -5.437 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 59.32 Mbit/s
95th percentile per-packet one-way delay: -6.430 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 34.00 Mbit/s
95th percentile per-packet one-way delay: -4.564 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 26.96 Mbit/s
95th percentile per-packet one-way delay: -4.291 ms
Loss rate: 0.10%

Run 4: Report of Copa — Data Link

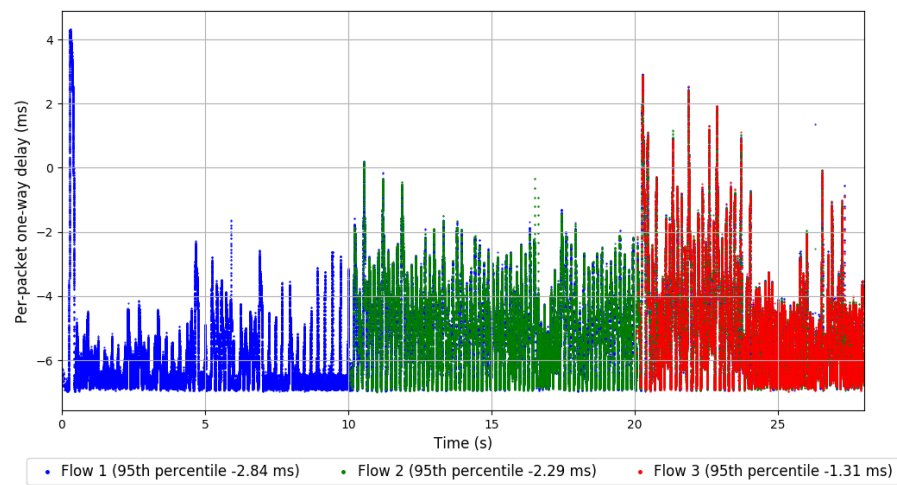
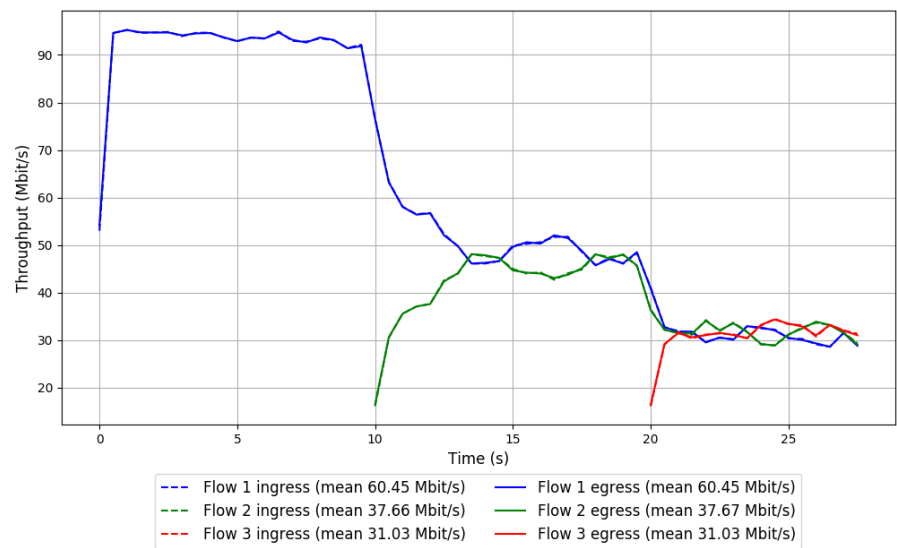


Run 5: Statistics of Copa

Start at: 2017-12-05 22:52:11
End at: 2017-12-05 22:52:41
Local clock offset: 4.091 ms
Remote clock offset: -12.13 ms

Below is generated by plot.py at 2017-12-06 01:13:42
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.44 Mbit/s
95th percentile per-packet one-way delay: -2.502 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 60.45 Mbit/s
95th percentile per-packet one-way delay: -2.841 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 37.67 Mbit/s
95th percentile per-packet one-way delay: -2.288 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 31.03 Mbit/s
95th percentile per-packet one-way delay: -1.310 ms
Loss rate: 0.00%

Run 5: Report of Copa — Data Link

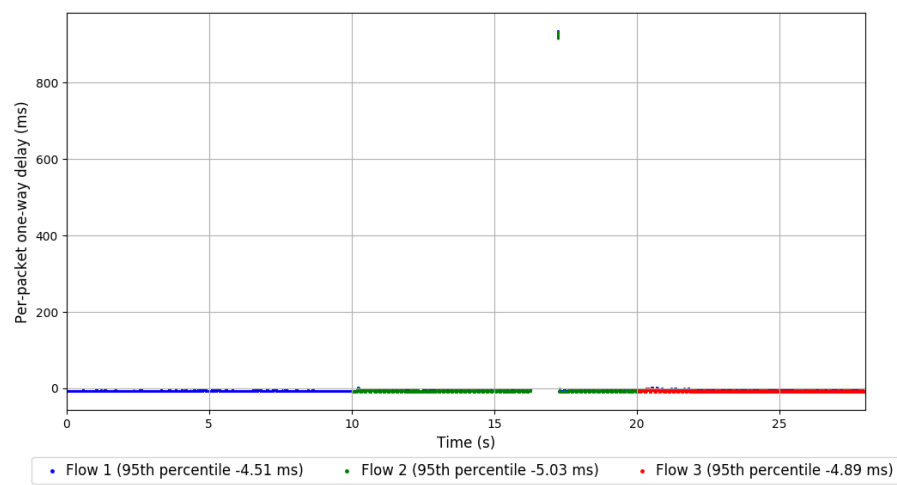
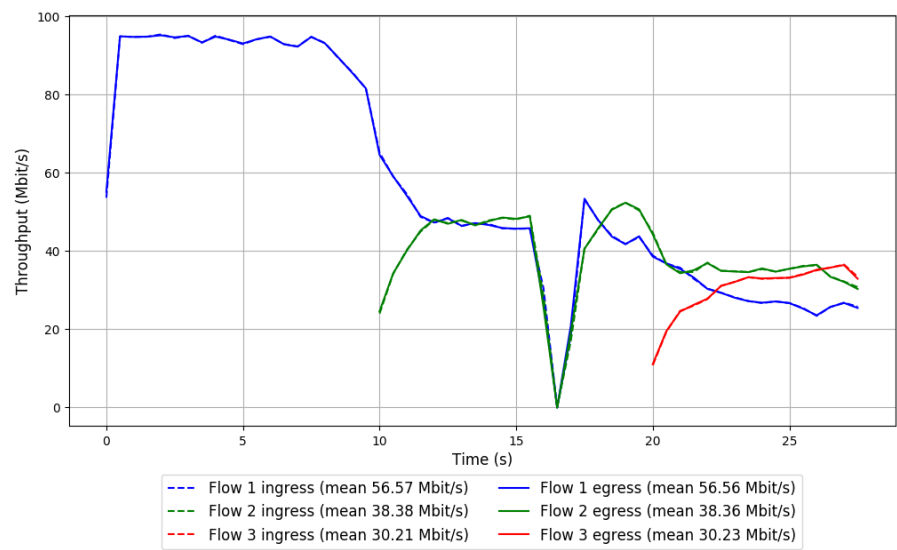


Run 6: Statistics of Copa

Start at: 2017-12-05 23:08:42
End at: 2017-12-05 23:09:12
Local clock offset: 6.04 ms
Remote clock offset: -11.679 ms

Below is generated by plot.py at 2017-12-06 01:13:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 89.76 Mbit/s
95th percentile per-packet one-way delay: -4.652 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 56.56 Mbit/s
95th percentile per-packet one-way delay: -4.506 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 38.36 Mbit/s
95th percentile per-packet one-way delay: -5.031 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 30.23 Mbit/s
95th percentile per-packet one-way delay: -4.895 ms
Loss rate: 0.00%

Run 6: Report of Copa — Data Link

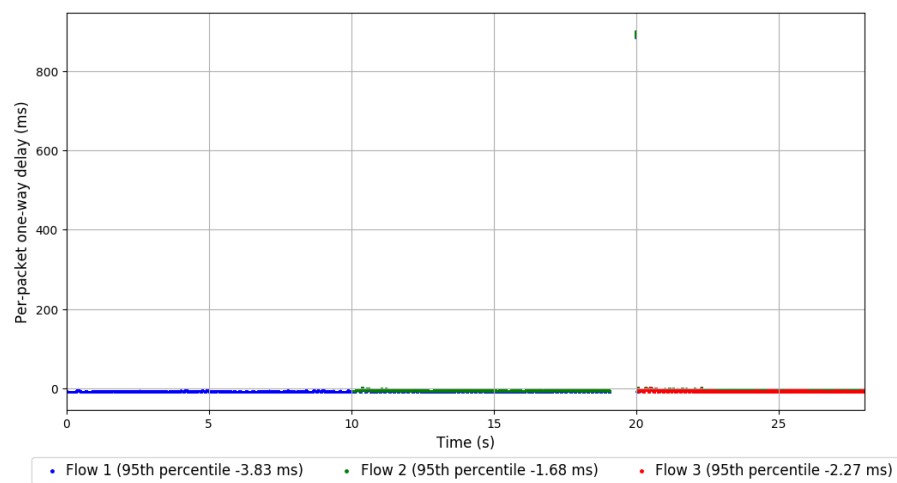
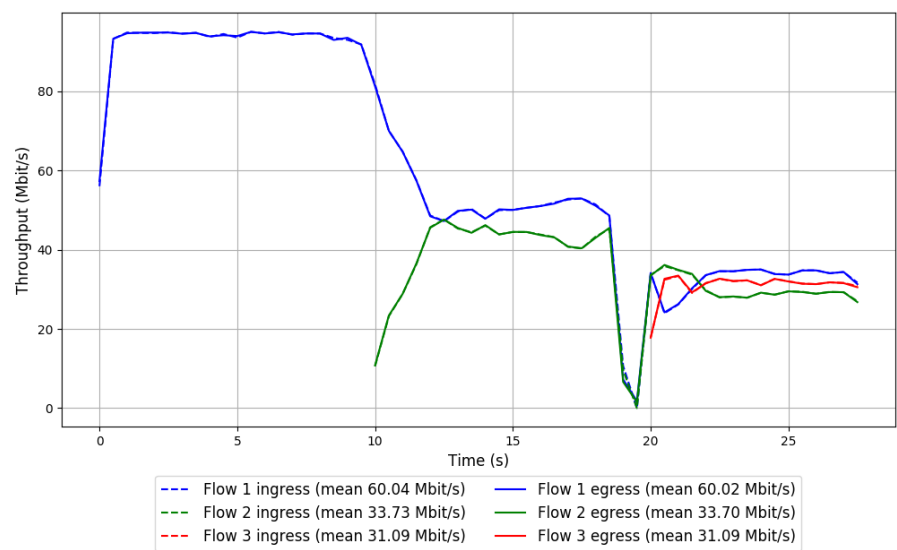


Run 7: Statistics of Copa

Start at: 2017-12-05 23:25:07
End at: 2017-12-05 23:25:37
Local clock offset: 4.966 ms
Remote clock offset: -10.935 ms

Below is generated by plot.py at 2017-12-06 01:13:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 90.46 Mbit/s
95th percentile per-packet one-way delay: -2.783 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 60.02 Mbit/s
95th percentile per-packet one-way delay: -3.826 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 33.70 Mbit/s
95th percentile per-packet one-way delay: -1.683 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 31.09 Mbit/s
95th percentile per-packet one-way delay: -2.270 ms
Loss rate: 0.00%

Run 7: Report of Copa — Data Link

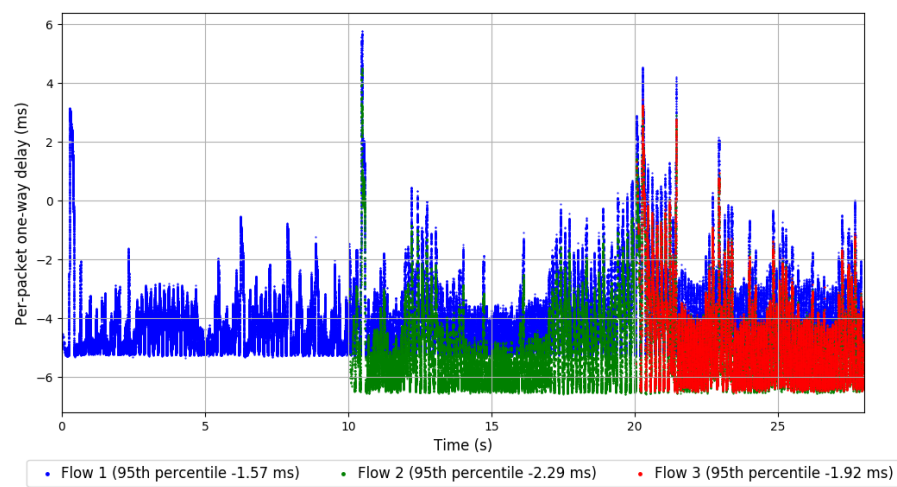
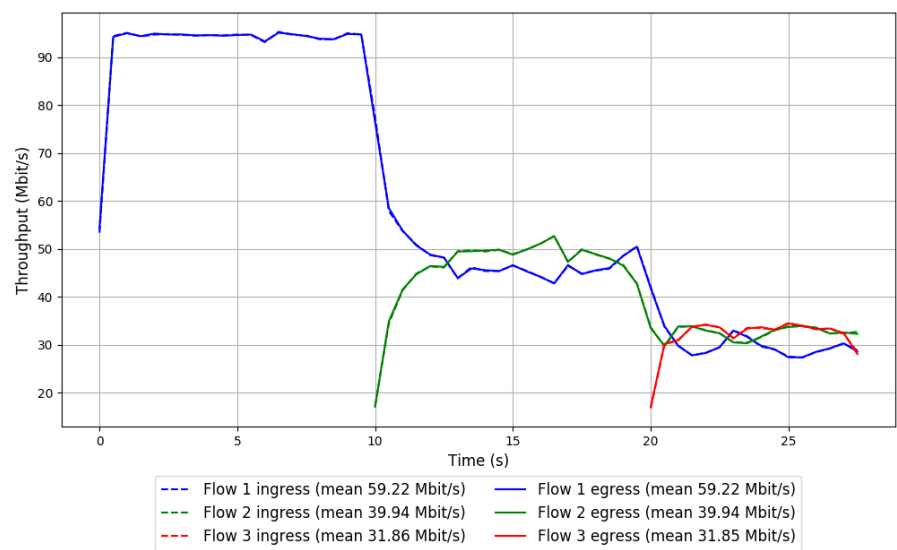


Run 8: Statistics of Copa

Start at: 2017-12-05 23:41:35
End at: 2017-12-05 23:42:05
Local clock offset: 1.699 ms
Remote clock offset: -12.273 ms

Below is generated by plot.py at 2017-12-06 01:14:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.92 Mbit/s
95th percentile per-packet one-way delay: -1.761 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 59.22 Mbit/s
95th percentile per-packet one-way delay: -1.569 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 39.94 Mbit/s
95th percentile per-packet one-way delay: -2.288 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 31.85 Mbit/s
95th percentile per-packet one-way delay: -1.921 ms
Loss rate: 0.00%

Run 8: Report of Copa — Data Link

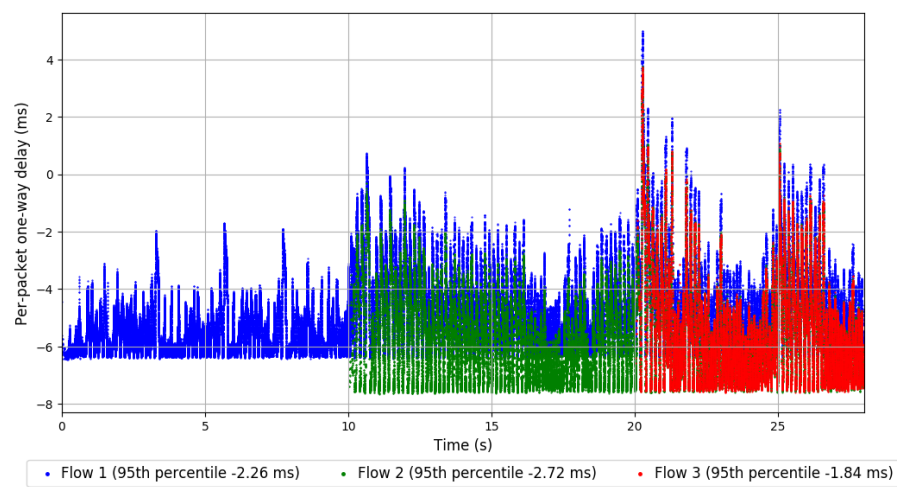
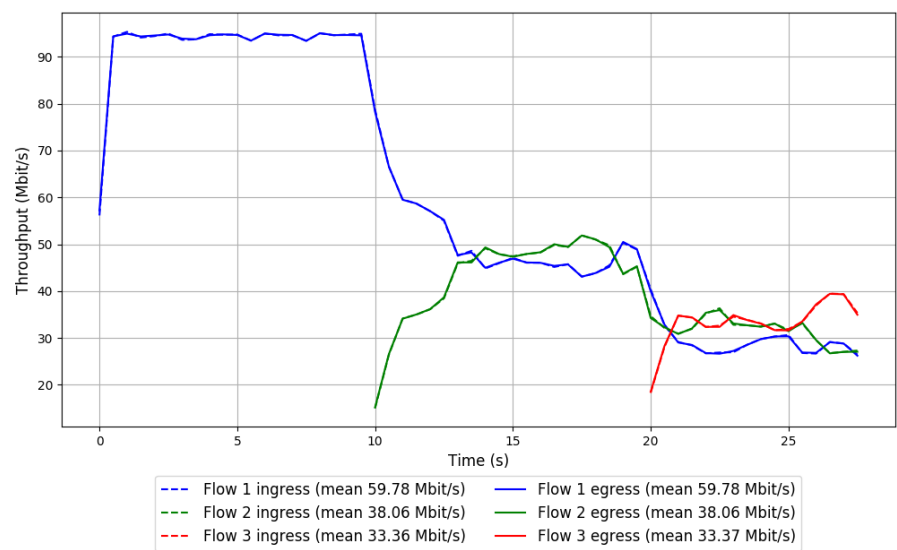


Run 9: Statistics of Copa

Start at: 2017-12-05 23:58:02
End at: 2017-12-05 23:58:32
Local clock offset: 3.818 ms
Remote clock offset: -11.658 ms

Below is generated by plot.py at 2017-12-06 01:15:19
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.69 Mbit/s
95th percentile per-packet one-way delay: -2.312 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 59.78 Mbit/s
95th percentile per-packet one-way delay: -2.259 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 38.06 Mbit/s
95th percentile per-packet one-way delay: -2.721 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 33.37 Mbit/s
95th percentile per-packet one-way delay: -1.845 ms
Loss rate: 0.00%

Run 9: Report of Copa — Data Link

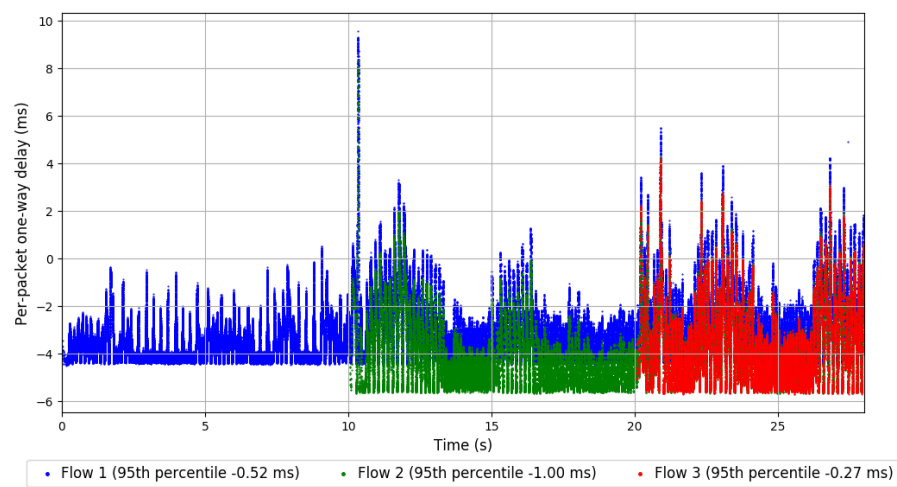
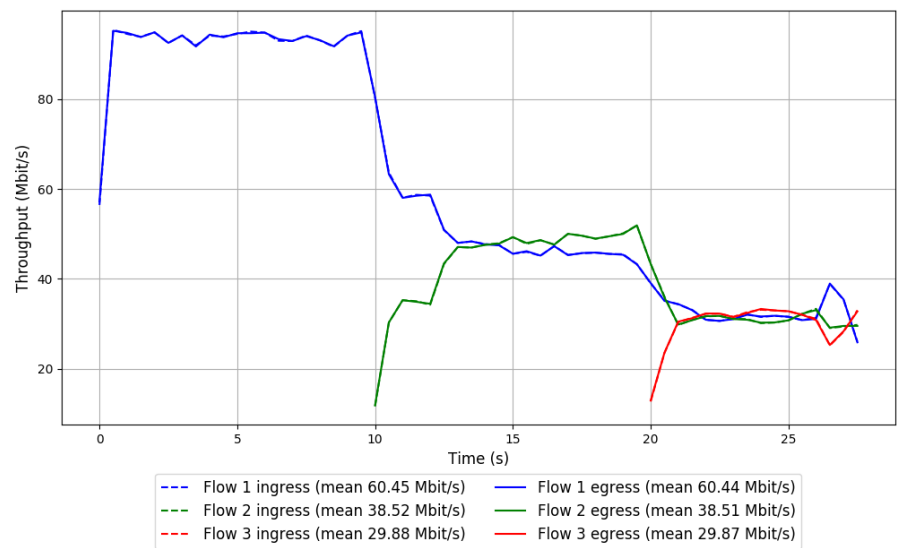


Run 10: Statistics of Copa

Start at: 2017-12-06 00:14:23
End at: 2017-12-06 00:14:53
Local clock offset: 1.671 ms
Remote clock offset: -13.008 ms

Below is generated by plot.py at 2017-12-06 01:15:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.66 Mbit/s
95th percentile per-packet one-way delay: -0.586 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 60.44 Mbit/s
95th percentile per-packet one-way delay: -0.517 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 38.51 Mbit/s
95th percentile per-packet one-way delay: -0.998 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 29.87 Mbit/s
95th percentile per-packet one-way delay: -0.267 ms
Loss rate: 0.00%

Run 10: Report of Copa — Data Link

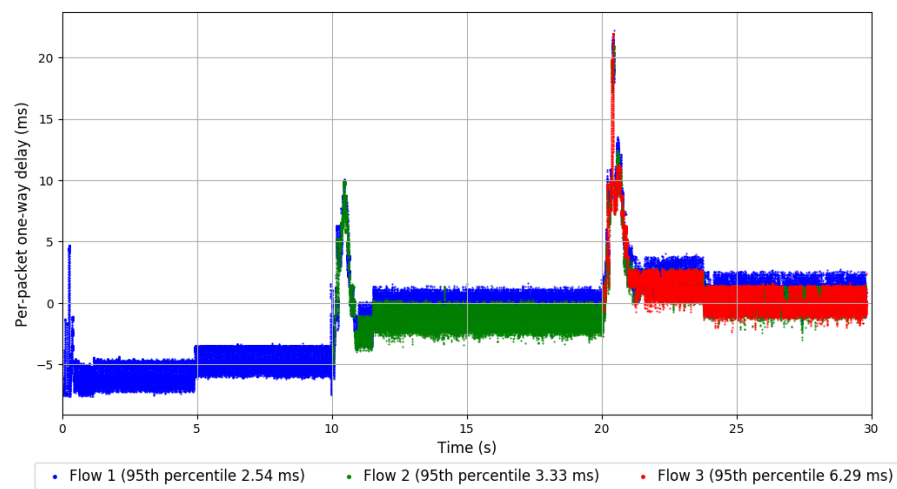
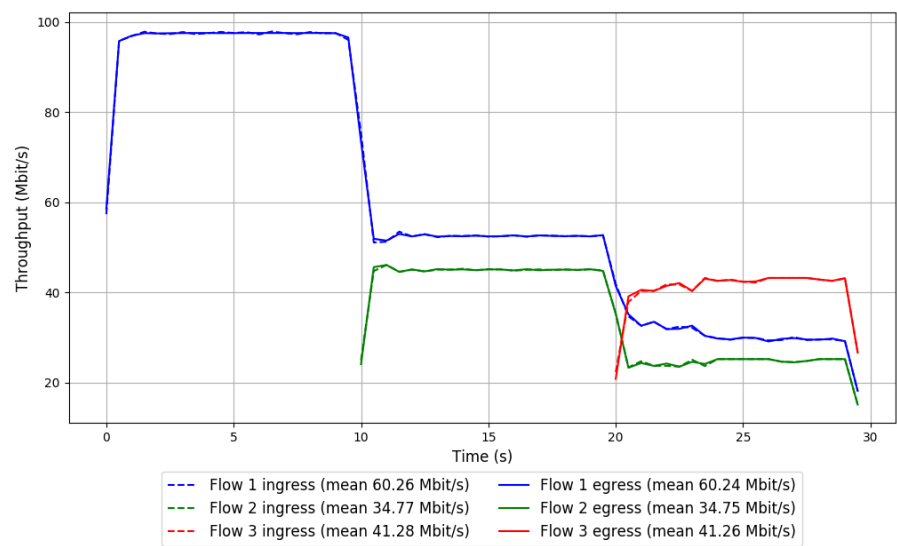


```
Run 1: Statistics of Indigo

Start at: 2017-12-05 21:47:14
End at: 2017-12-05 21:47:44
Local clock offset: 4.712 ms
Remote clock offset: -13.064 ms

# Below is generated by plot.py at 2017-12-06 01:15:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.80 Mbit/s
95th percentile per-packet one-way delay: 2.750 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 60.24 Mbit/s
95th percentile per-packet one-way delay: 2.542 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 34.75 Mbit/s
95th percentile per-packet one-way delay: 3.330 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 41.26 Mbit/s
95th percentile per-packet one-way delay: 6.295 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo — Data Link

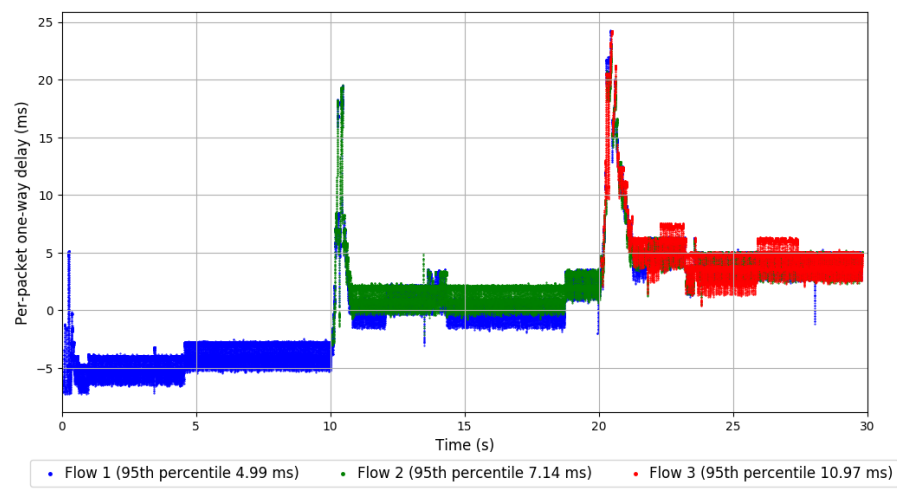
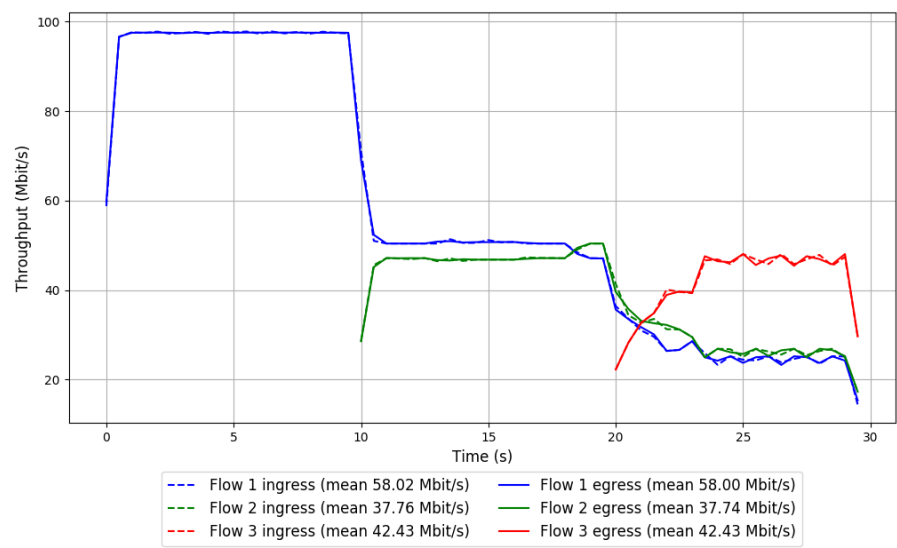


```
Run 2: Statistics of Indigo

Start at: 2017-12-05 22:03:55
End at: 2017-12-05 22:04:25
Local clock offset: 4.657 ms
Remote clock offset: -12.1 ms

# Below is generated by plot.py at 2017-12-06 01:15:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.87 Mbit/s
95th percentile per-packet one-way delay: 6.257 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 58.00 Mbit/s
95th percentile per-packet one-way delay: 4.990 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 37.74 Mbit/s
95th percentile per-packet one-way delay: 7.140 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 42.43 Mbit/s
95th percentile per-packet one-way delay: 10.969 ms
Loss rate: 0.01%
```

Run 2: Report of Indigo — Data Link

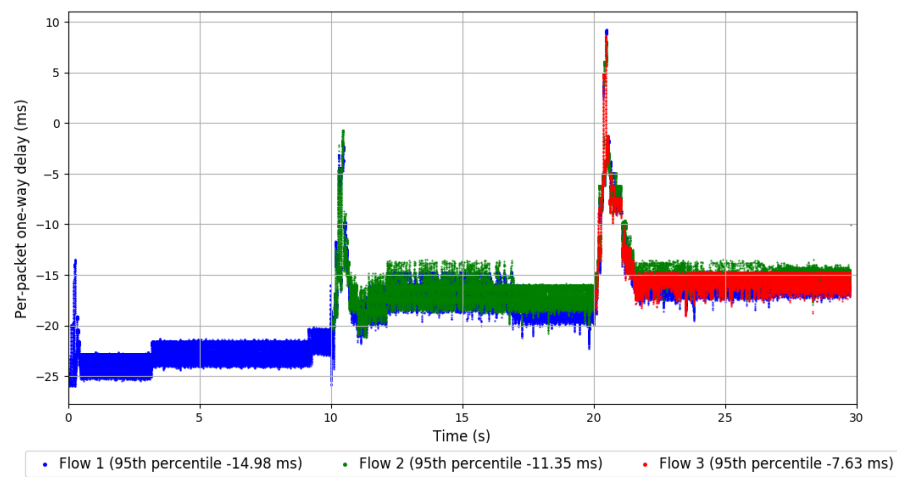
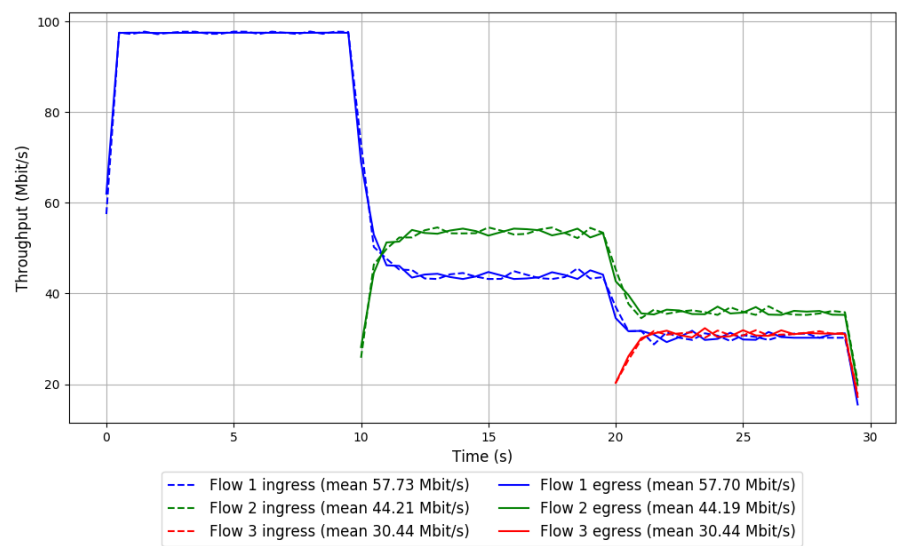


Run 3: Statistics of Indigo

Start at: 2017-12-05 22:20:26
End at: 2017-12-05 22:20:56
Local clock offset: 21.83 ms
Remote clock offset: -12.242 ms

Below is generated by plot.py at 2017-12-06 01:15:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.90 Mbit/s
95th percentile per-packet one-way delay: -13.585 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 57.70 Mbit/s
95th percentile per-packet one-way delay: -14.977 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 44.19 Mbit/s
95th percentile per-packet one-way delay: -11.349 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 30.44 Mbit/s
95th percentile per-packet one-way delay: -7.632 ms
Loss rate: 0.00%

Run 3: Report of Indigo — Data Link

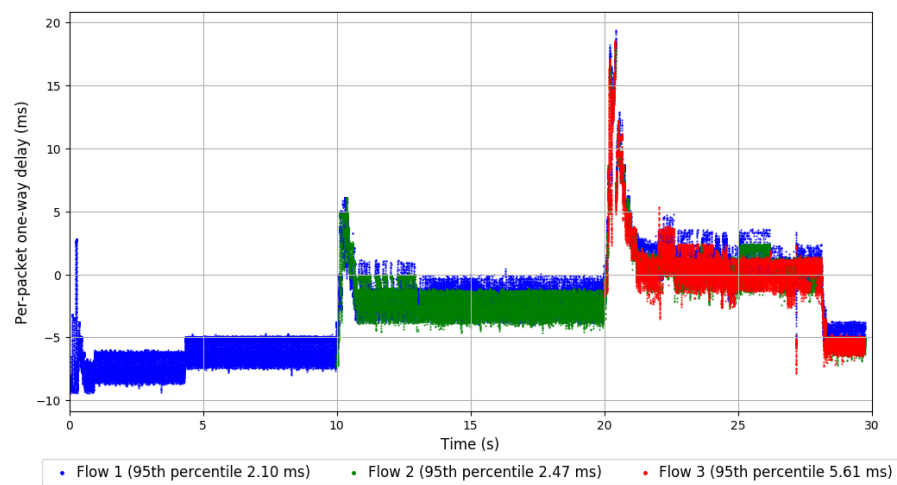
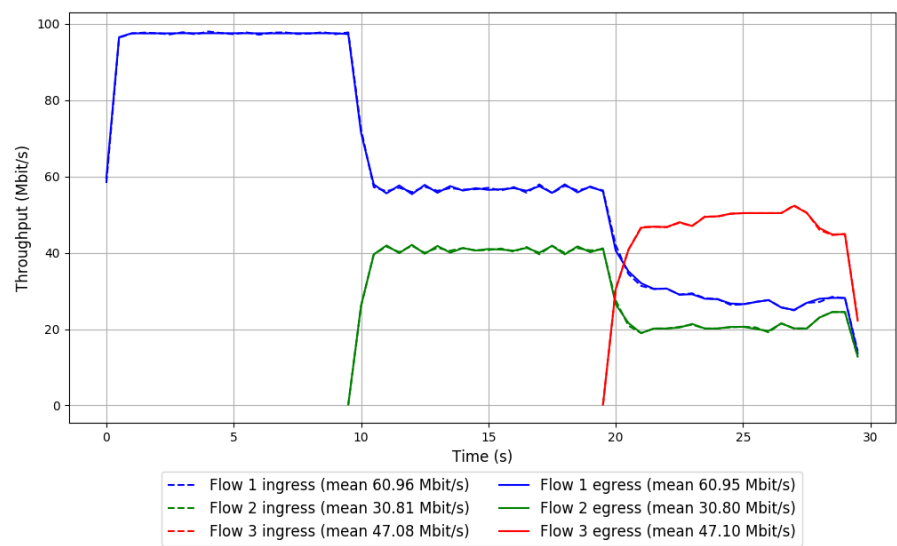


Run 4: Statistics of Indigo

Start at: 2017-12-05 22:37:00
End at: 2017-12-05 22:37:30
Local clock offset: 5.333 ms
Remote clock offset: -13.235 ms

Below is generated by plot.py at 2017-12-06 01:15:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.87 Mbit/s
95th percentile per-packet one-way delay: 2.371 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 60.95 Mbit/s
95th percentile per-packet one-way delay: 2.105 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 30.80 Mbit/s
95th percentile per-packet one-way delay: 2.472 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 47.10 Mbit/s
95th percentile per-packet one-way delay: 5.609 ms
Loss rate: 0.00%

Run 4: Report of Indigo — Data Link

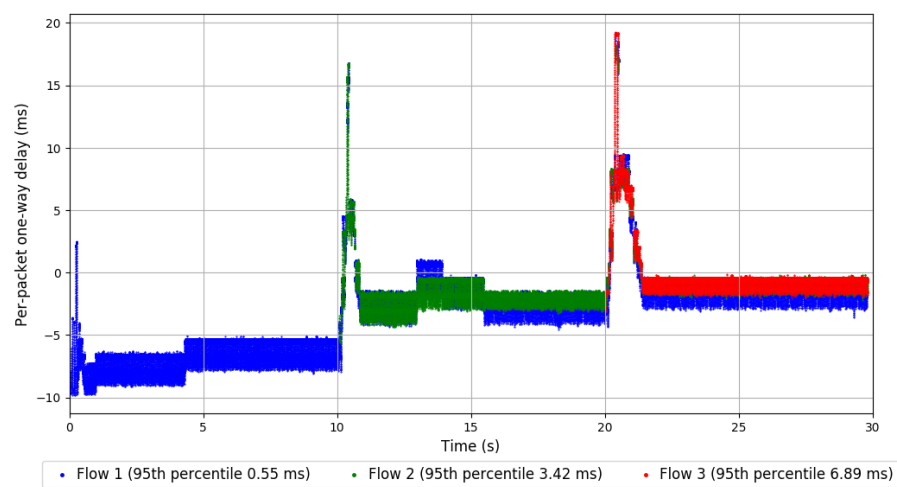
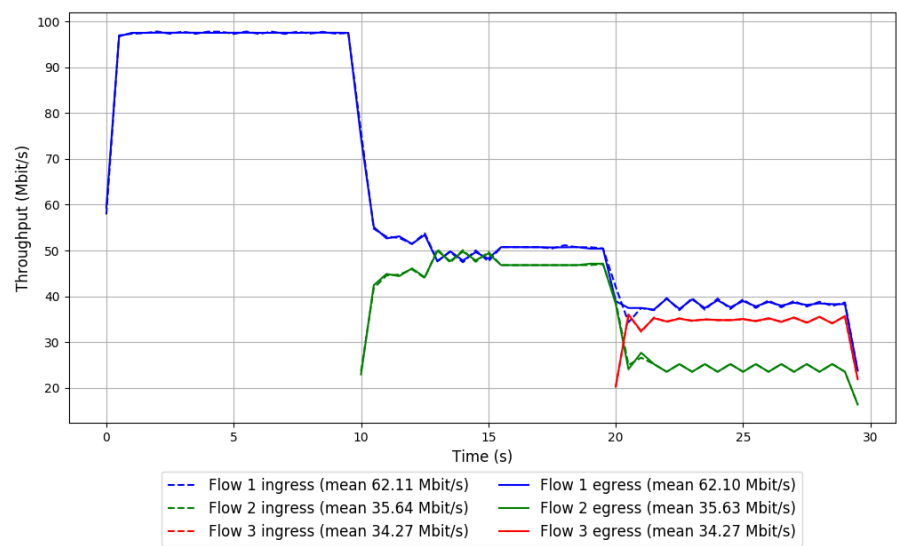


Run 5: Statistics of Indigo

Start at: 2017-12-05 22:53:29
End at: 2017-12-05 22:53:59
Local clock offset: 6.617 ms
Remote clock offset: -12.478 ms

Below is generated by plot.py at 2017-12-06 01:15:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.87 Mbit/s
95th percentile per-packet one-way delay: 1.765 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 62.10 Mbit/s
95th percentile per-packet one-way delay: 0.545 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 35.63 Mbit/s
95th percentile per-packet one-way delay: 3.417 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 34.27 Mbit/s
95th percentile per-packet one-way delay: 6.893 ms
Loss rate: 0.00%

Run 5: Report of Indigo — Data Link

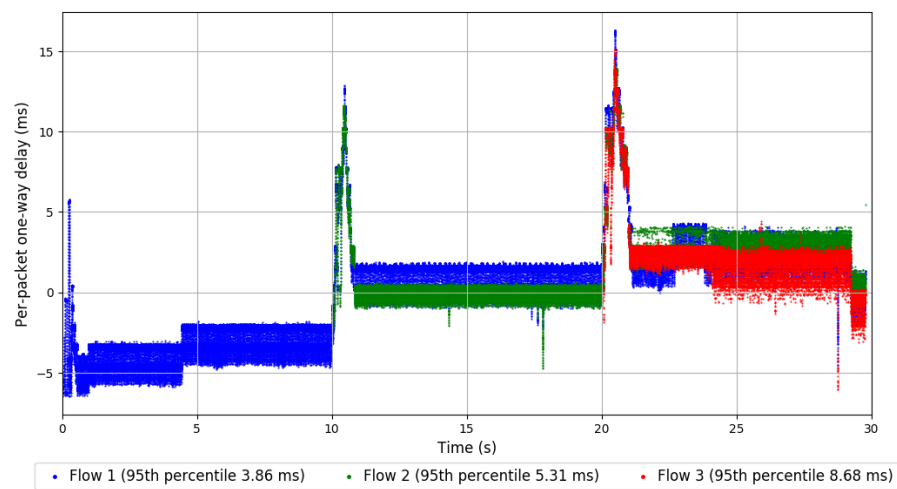
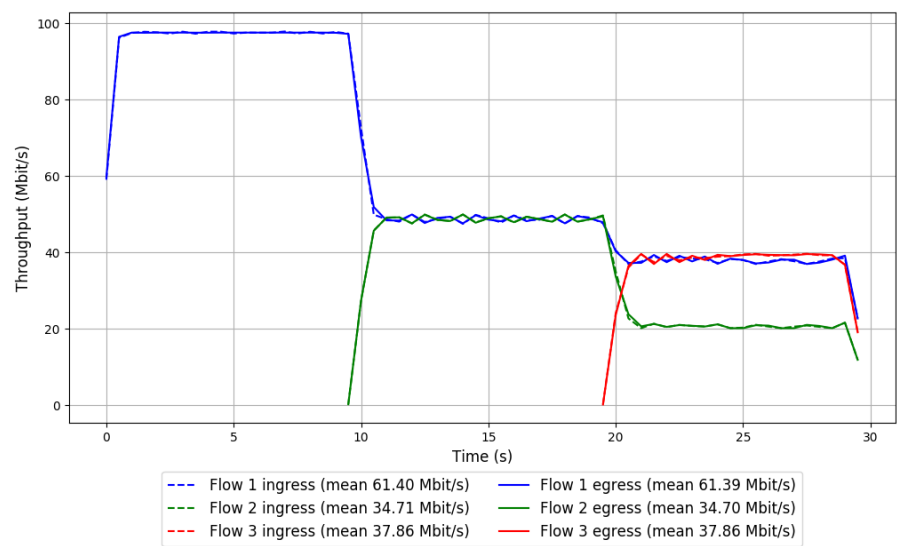


Run 6: Statistics of Indigo

Start at: 2017-12-05 23:09:55
End at: 2017-12-05 23:10:25
Local clock offset: 4.504 ms
Remote clock offset: -11.415 ms

Below is generated by plot.py at 2017-12-06 01:15:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.86 Mbit/s
95th percentile per-packet one-way delay: 4.051 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 61.39 Mbit/s
95th percentile per-packet one-way delay: 3.861 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 34.70 Mbit/s
95th percentile per-packet one-way delay: 5.308 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 37.86 Mbit/s
95th percentile per-packet one-way delay: 8.679 ms
Loss rate: 0.00%

Run 6: Report of Indigo — Data Link

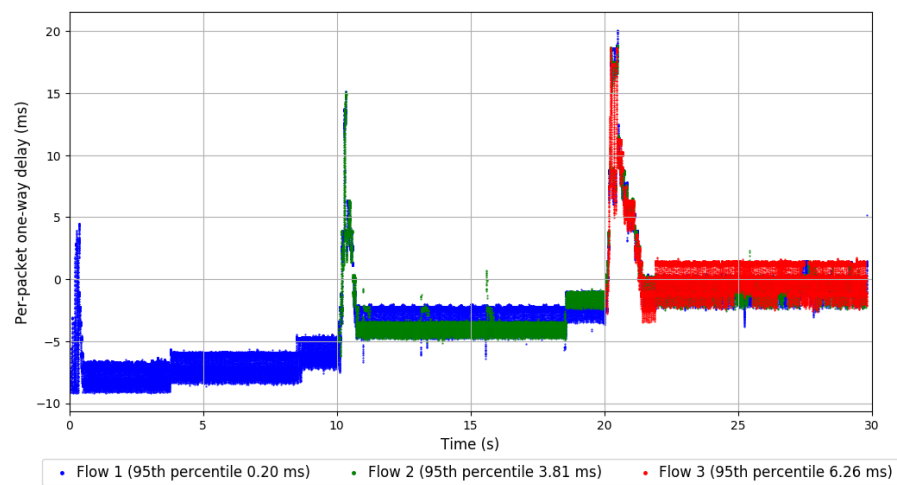
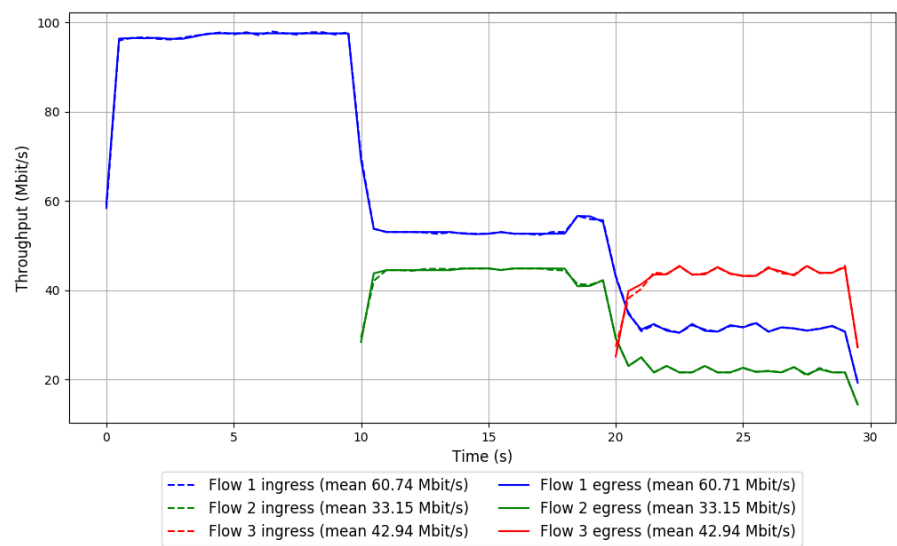


Run 7: Statistics of Indigo

Start at: 2017-12-05 23:26:20
End at: 2017-12-05 23:26:50
Local clock offset: 5.891 ms
Remote clock offset: -11.426 ms

Below is generated by plot.py at 2017-12-06 01:16:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.75 Mbit/s
95th percentile per-packet one-way delay: 2.399 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 60.71 Mbit/s
95th percentile per-packet one-way delay: 0.202 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 33.15 Mbit/s
95th percentile per-packet one-way delay: 3.809 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 42.94 Mbit/s
95th percentile per-packet one-way delay: 6.261 ms
Loss rate: 0.00%

Run 7: Report of Indigo — Data Link

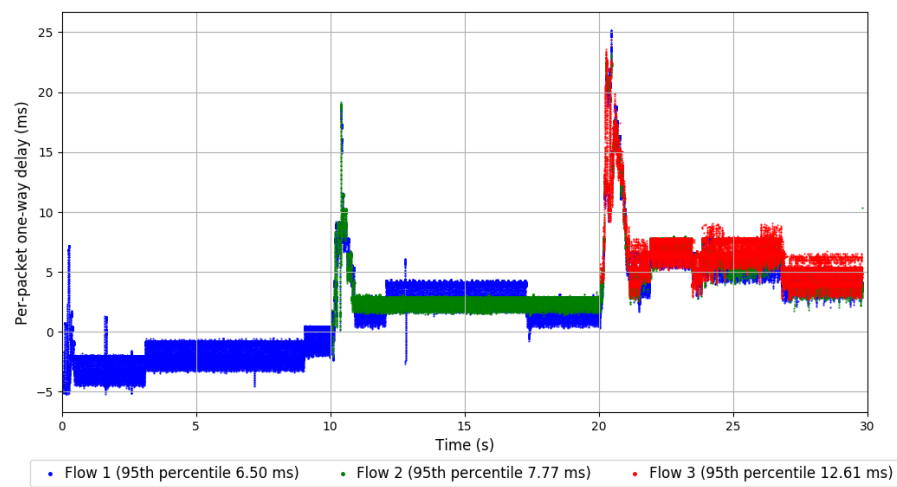
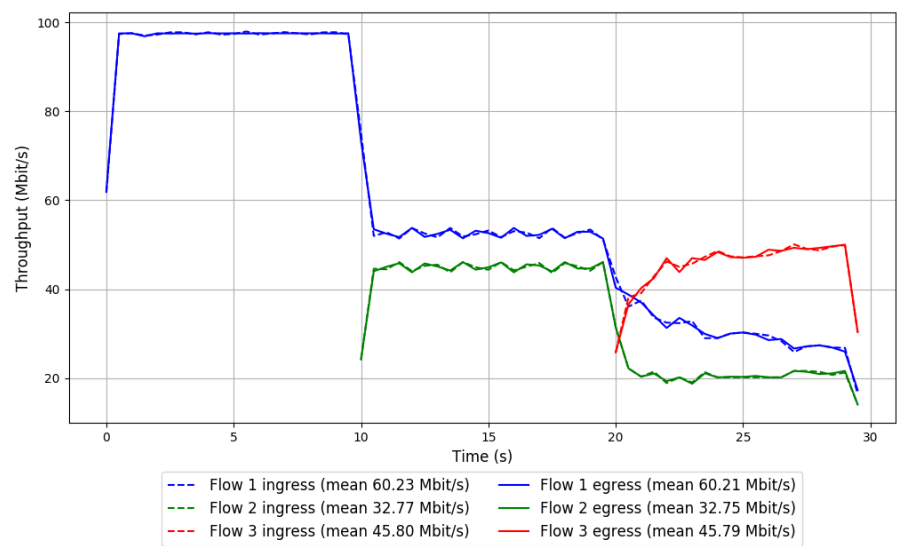


Run 8: Statistics of Indigo

Start at: 2017-12-05 23:42:50
End at: 2017-12-05 23:43:20
Local clock offset: 0.845 ms
Remote clock offset: -11.817 ms

Below is generated by plot.py at 2017-12-06 01:16:07
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.90 Mbit/s
95th percentile per-packet one-way delay: 7.726 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 60.21 Mbit/s
95th percentile per-packet one-way delay: 6.502 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 32.75 Mbit/s
95th percentile per-packet one-way delay: 7.768 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 45.79 Mbit/s
95th percentile per-packet one-way delay: 12.608 ms
Loss rate: 0.00%

Run 8: Report of Indigo — Data Link

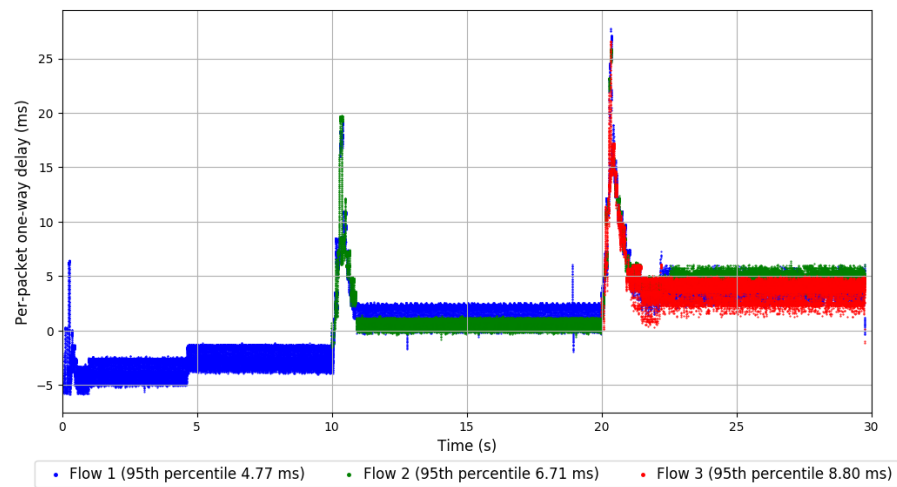
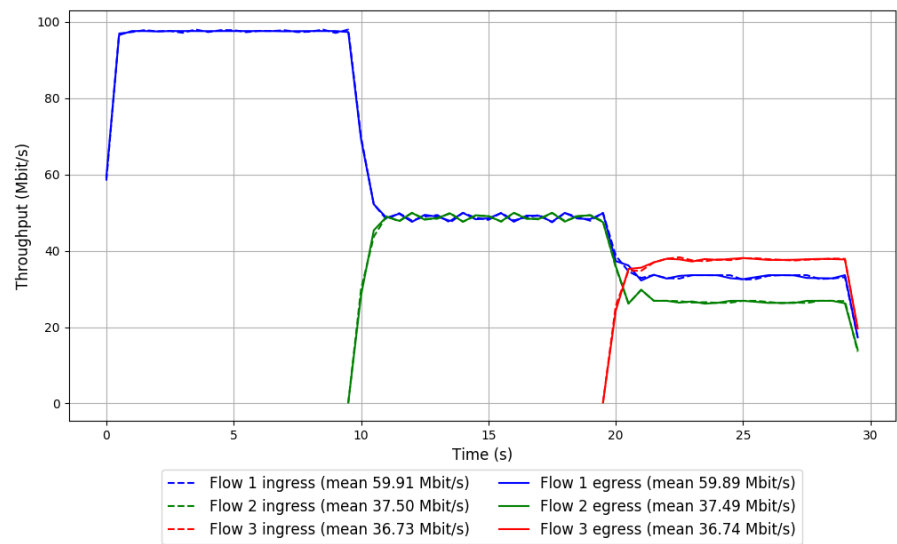


Run 9: Statistics of Indigo

Start at: 2017-12-05 23:59:15
End at: 2017-12-05 23:59:45
Local clock offset: 3.287 ms
Remote clock offset: -11.766 ms

Below is generated by plot.py at 2017-12-06 01:16:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.85 Mbit/s
95th percentile per-packet one-way delay: 5.773 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 59.89 Mbit/s
95th percentile per-packet one-way delay: 4.772 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 37.49 Mbit/s
95th percentile per-packet one-way delay: 6.708 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 36.74 Mbit/s
95th percentile per-packet one-way delay: 8.801 ms
Loss rate: 0.00%

Run 9: Report of Indigo — Data Link

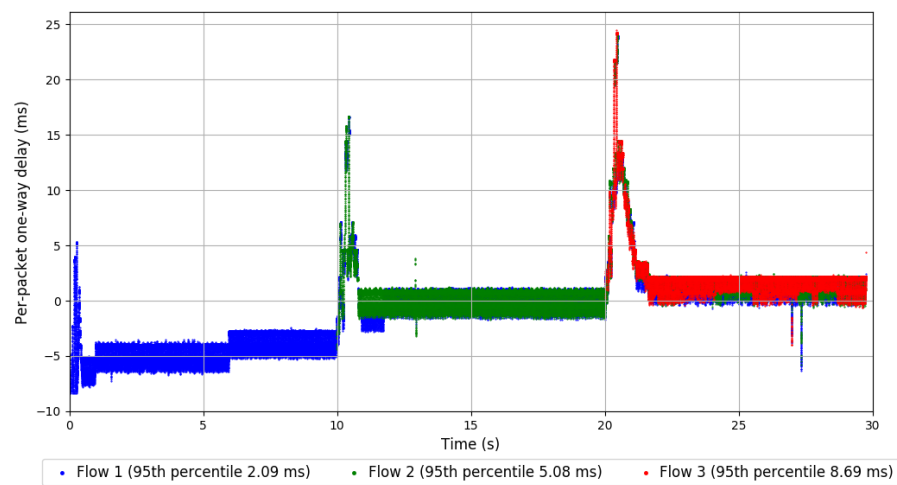
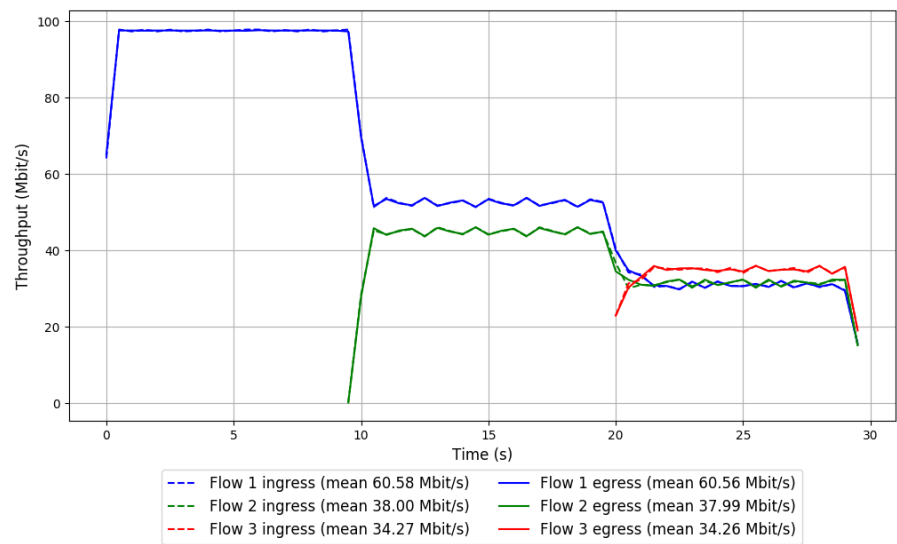


Run 10: Statistics of Indigo

Start at: 2017-12-06 00:15:37
End at: 2017-12-06 00:16:07
Local clock offset: 3.758 ms
Remote clock offset: -13.667 ms

Below is generated by plot.py at 2017-12-06 01:16:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.97 Mbit/s
95th percentile per-packet one-way delay: 3.380 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 60.56 Mbit/s
95th percentile per-packet one-way delay: 2.094 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 37.99 Mbit/s
95th percentile per-packet one-way delay: 5.077 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 34.26 Mbit/s
95th percentile per-packet one-way delay: 8.686 ms
Loss rate: 0.00%

Run 10: Report of Indigo — Data Link

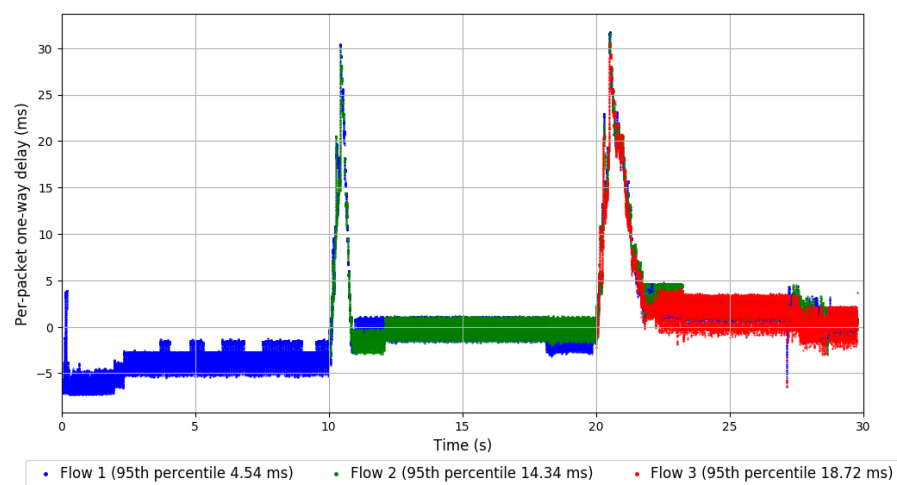
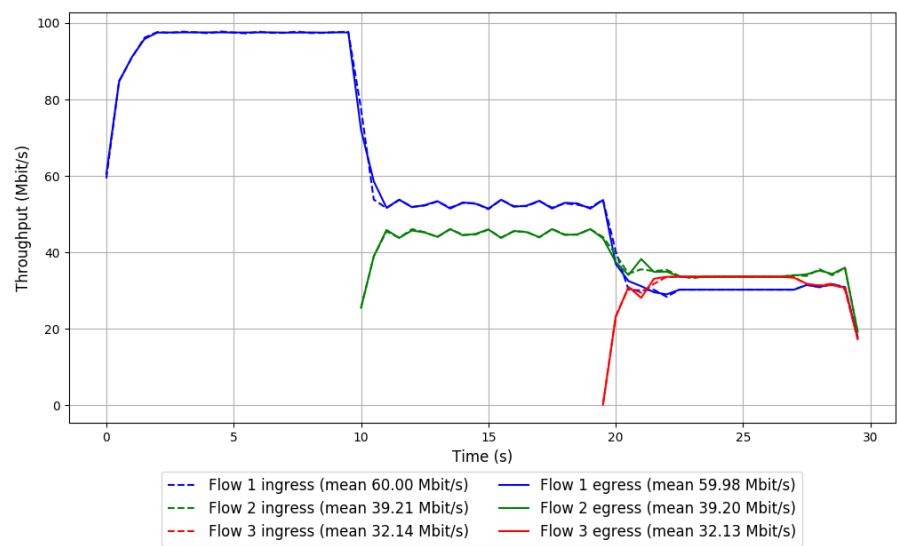


```
Run 1: Statistics of Indigo-calib

Start at: 2017-12-05 21:51:59
End at: 2017-12-05 21:52:29
Local clock offset: 4.41 ms
Remote clock offset: -12.521 ms

# Below is generated by plot.py at 2017-12-06 01:16:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.54 Mbit/s
95th percentile per-packet one-way delay: 10.708 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 59.98 Mbit/s
95th percentile per-packet one-way delay: 4.537 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 39.20 Mbit/s
95th percentile per-packet one-way delay: 14.342 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 32.13 Mbit/s
95th percentile per-packet one-way delay: 18.719 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo-calib — Data Link

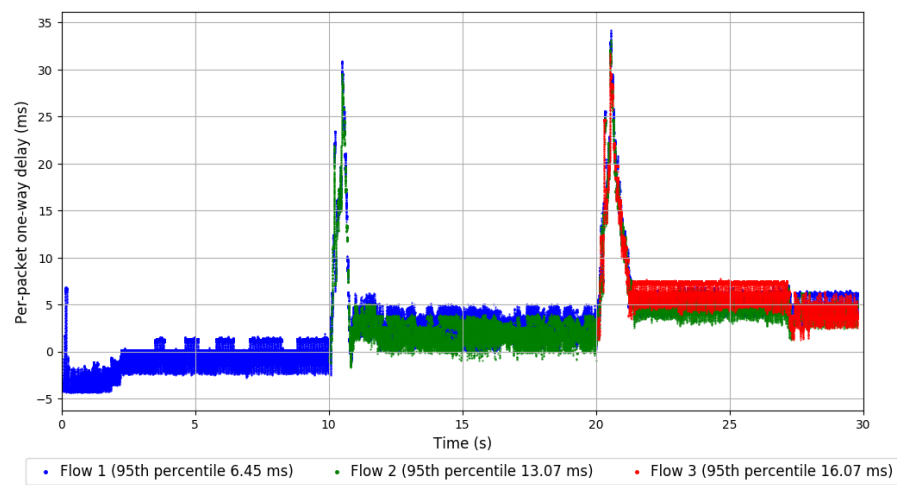
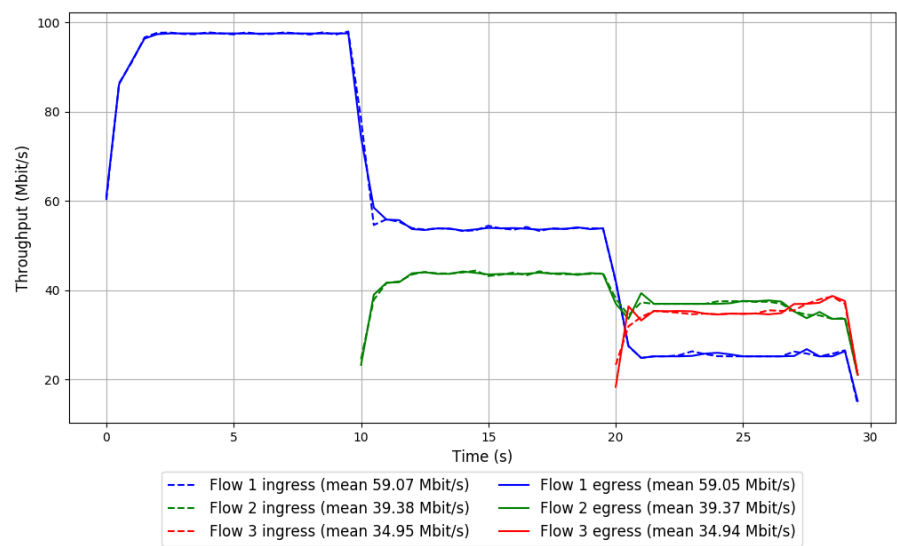


```
Run 2: Statistics of Indigo-calib

Start at: 2017-12-05 22:08:37
End at: 2017-12-05 22:09:07
Local clock offset: 1.555 ms
Remote clock offset: -12.244 ms

# Below is generated by plot.py at 2017-12-06 01:16:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.59 Mbit/s
95th percentile per-packet one-way delay: 9.095 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 59.05 Mbit/s
95th percentile per-packet one-way delay: 6.448 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 39.37 Mbit/s
95th percentile per-packet one-way delay: 13.070 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 34.94 Mbit/s
95th percentile per-packet one-way delay: 16.071 ms
Loss rate: 0.00%
```


Run 2: Report of Indigo-calib — Data Link

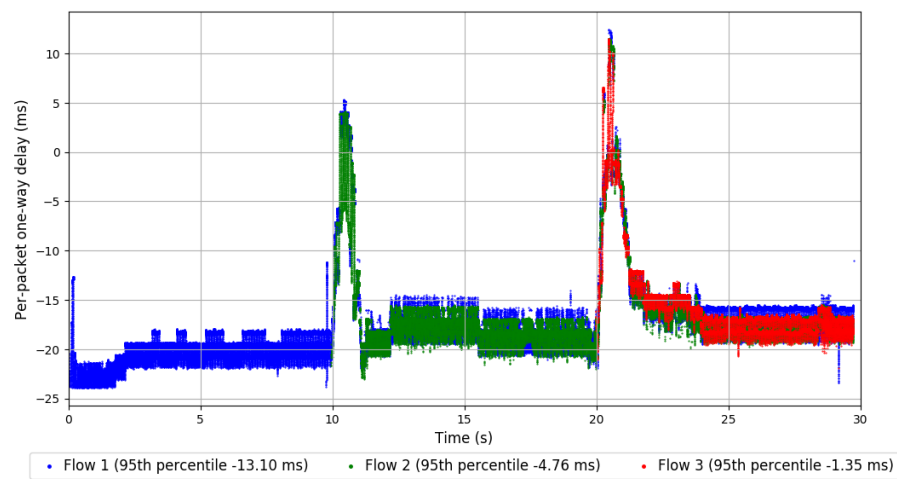
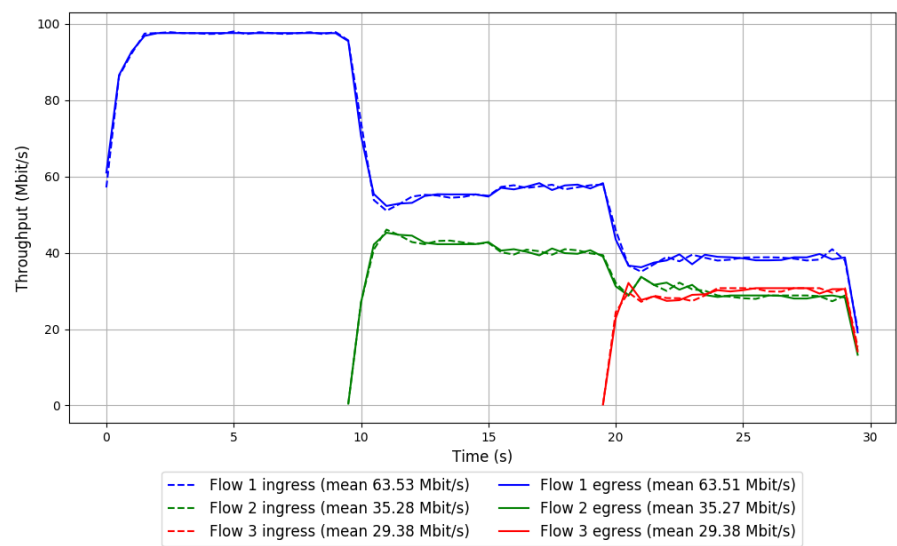


Run 3: Statistics of Indigo-calib

Start at: 2017-12-05 22:25:10
End at: 2017-12-05 22:25:40
Local clock offset: 21.023 ms
Remote clock offset: -12.008 ms

Below is generated by plot.py at 2017-12-06 01:16:52
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.59 Mbit/s
95th percentile per-packet one-way delay: -8.245 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 63.51 Mbit/s
95th percentile per-packet one-way delay: -13.100 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 35.27 Mbit/s
95th percentile per-packet one-way delay: -4.763 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 29.38 Mbit/s
95th percentile per-packet one-way delay: -1.346 ms
Loss rate: 0.00%

Run 3: Report of Indigo-calib — Data Link

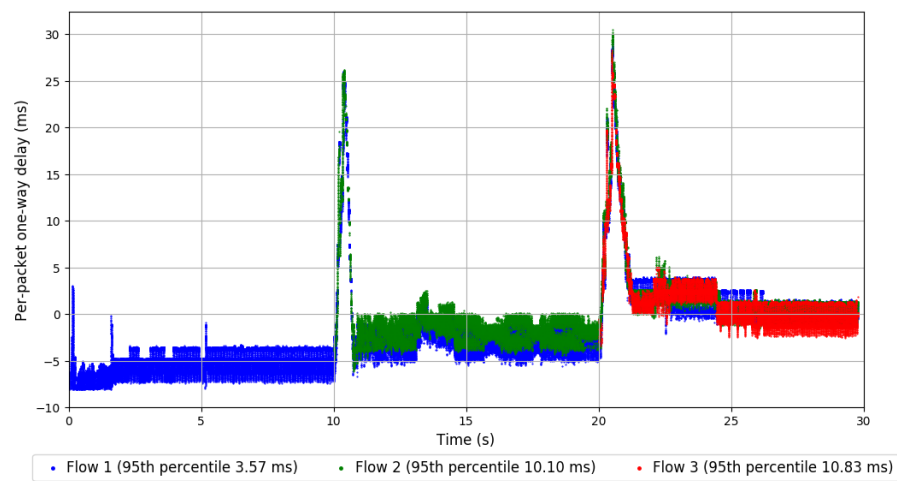
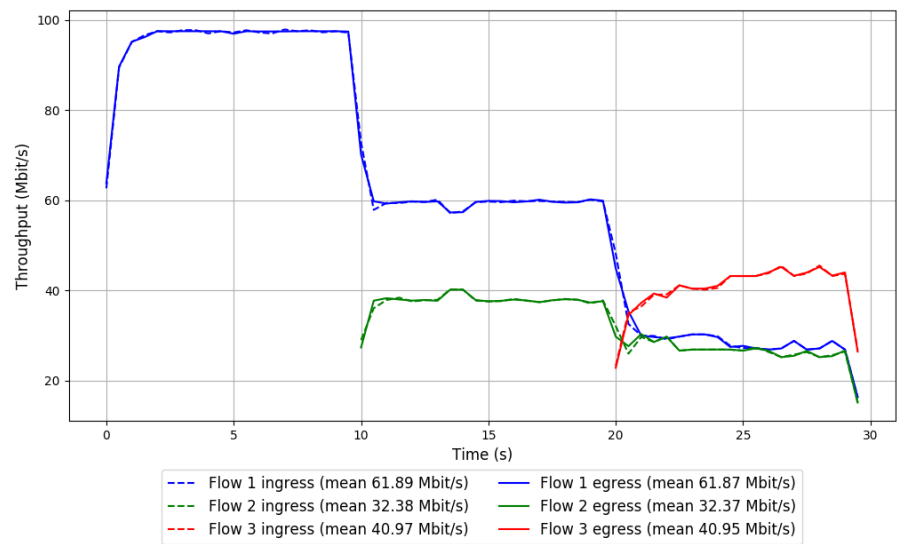


Run 4: Statistics of Indigo-calib

Start at: 2017-12-05 22:41:39
End at: 2017-12-05 22:42:09
Local clock offset: 4.607 ms
Remote clock offset: -11.411 ms

Below is generated by plot.py at 2017-12-06 01:17:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.75 Mbit/s
95th percentile per-packet one-way delay: 4.643 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 61.87 Mbit/s
95th percentile per-packet one-way delay: 3.567 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 32.37 Mbit/s
95th percentile per-packet one-way delay: 10.104 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 40.95 Mbit/s
95th percentile per-packet one-way delay: 10.826 ms
Loss rate: 0.00%

Run 4: Report of Indigo-calib — Data Link

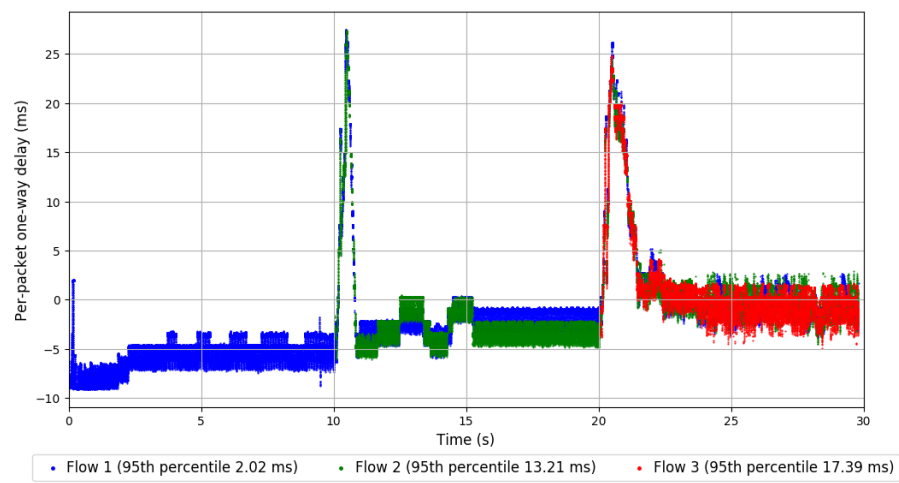
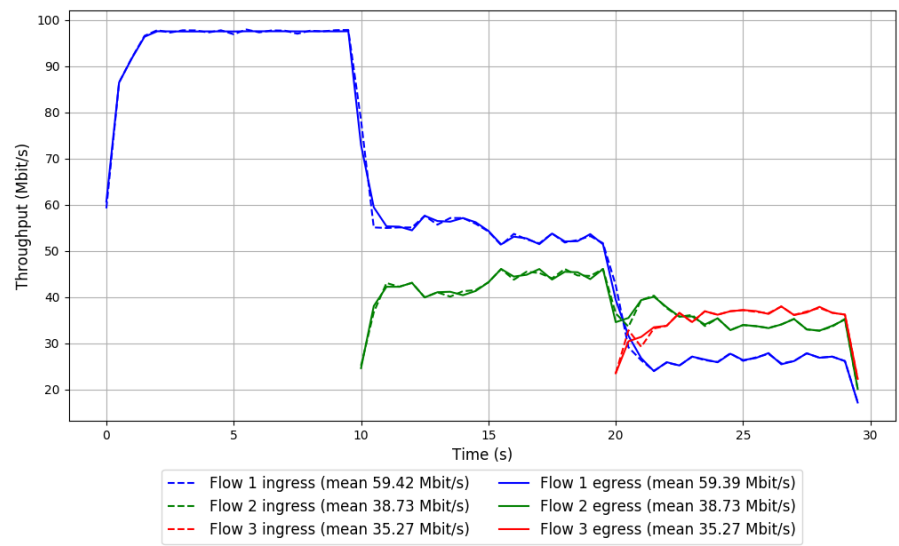


Run 5: Statistics of Indigo-calib

Start at: 2017-12-05 22:58:10
End at: 2017-12-05 22:58:40
Local clock offset: 6.982 ms
Remote clock offset: -11.466 ms

Below is generated by plot.py at 2017-12-06 01:17:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.59 Mbit/s
95th percentile per-packet one-way delay: 7.563 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 59.39 Mbit/s
95th percentile per-packet one-way delay: 2.023 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 38.73 Mbit/s
95th percentile per-packet one-way delay: 13.215 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 35.27 Mbit/s
95th percentile per-packet one-way delay: 17.394 ms
Loss rate: 0.00%

Run 5: Report of Indigo-calib — Data Link

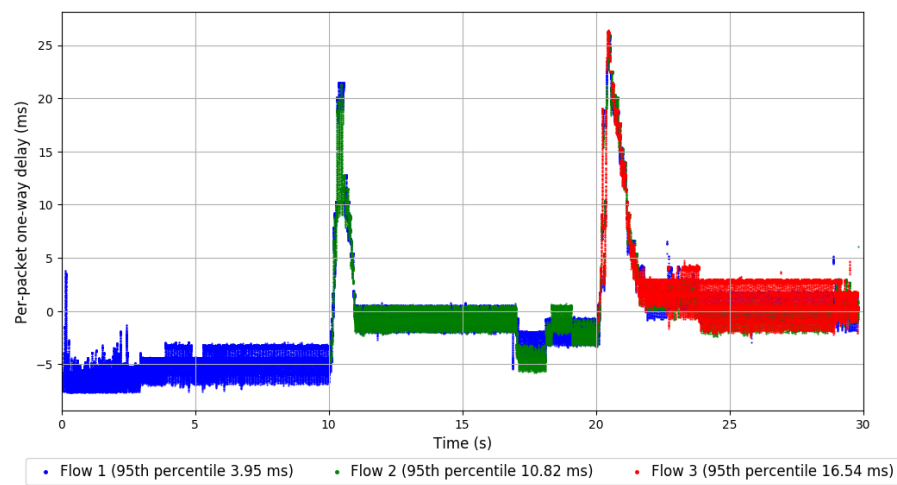
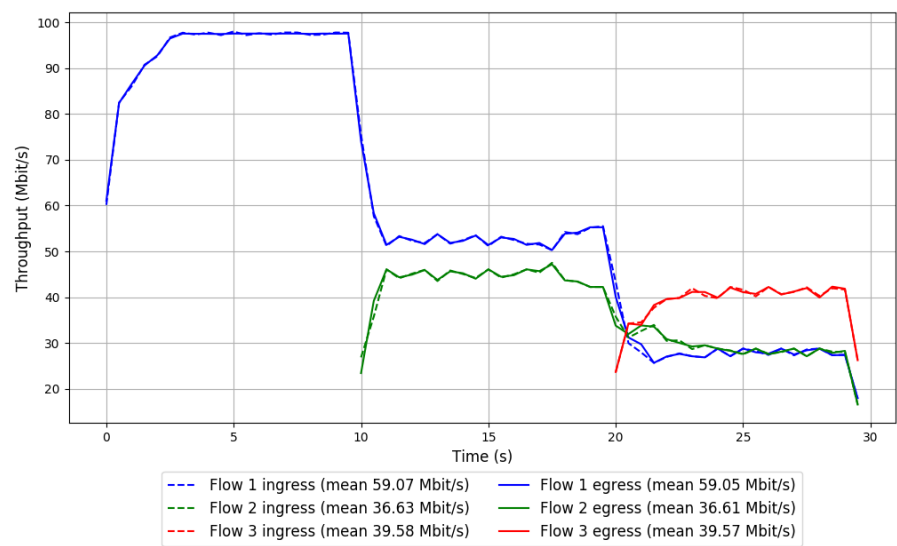


Run 6: Statistics of Indigo-calib

Start at: 2017-12-05 23:14:36
End at: 2017-12-05 23:15:06
Local clock offset: 4.701 ms
Remote clock offset: -11.166 ms

Below is generated by plot.py at 2017-12-06 01:17:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.24 Mbit/s
95th percentile per-packet one-way delay: 7.922 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 59.05 Mbit/s
95th percentile per-packet one-way delay: 3.946 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 36.61 Mbit/s
95th percentile per-packet one-way delay: 10.821 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 39.57 Mbit/s
95th percentile per-packet one-way delay: 16.544 ms
Loss rate: 0.00%

Run 6: Report of Indigo-calib — Data Link

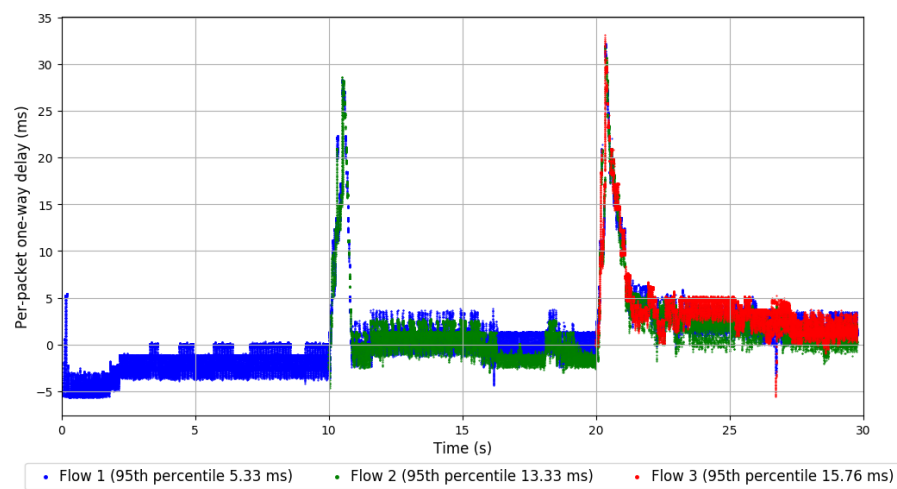
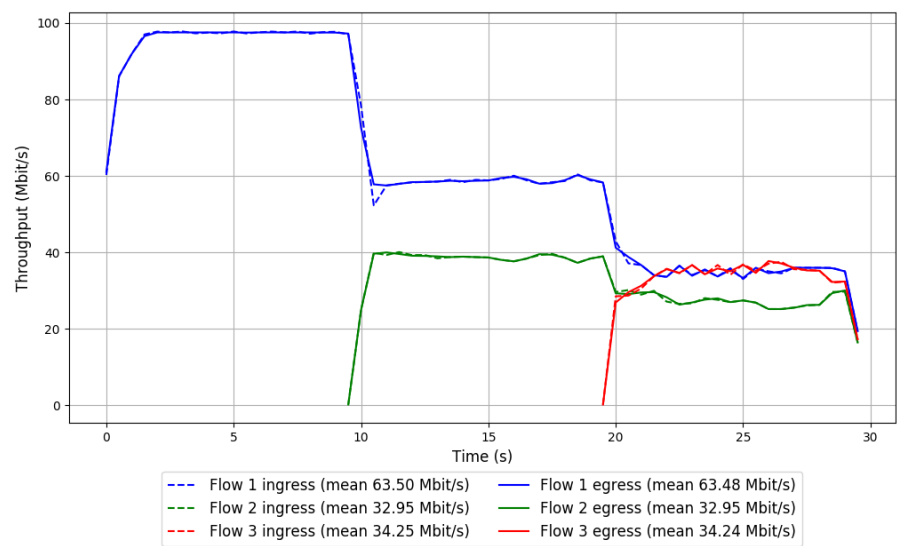


Run 7: Statistics of Indigo-calib

Start at: 2017-12-05 23:30:59
End at: 2017-12-05 23:31:29
Local clock offset: 1.856 ms
Remote clock offset: -12.93 ms

Below is generated by plot.py at 2017-12-06 01:17:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.61 Mbit/s
95th percentile per-packet one-way delay: 9.641 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 63.48 Mbit/s
95th percentile per-packet one-way delay: 5.325 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 32.95 Mbit/s
95th percentile per-packet one-way delay: 13.326 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 34.24 Mbit/s
95th percentile per-packet one-way delay: 15.759 ms
Loss rate: 0.00%

Run 7: Report of Indigo-calib — Data Link



Run 8: Statistics of Indigo-calib

Start at: 2017-12-05 23:47:31

End at: 2017-12-05 23:48:01

Local clock offset: 0.852 ms

Remote clock offset: -11.278 ms

Below is generated by plot.py at 2017-12-06 01:17:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.52 Mbit/s

95th percentile per-packet one-way delay: 12.980 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 57.72 Mbit/s

95th percentile per-packet one-way delay: 7.708 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 41.33 Mbit/s

95th percentile per-packet one-way delay: 16.777 ms

Loss rate: 0.00%

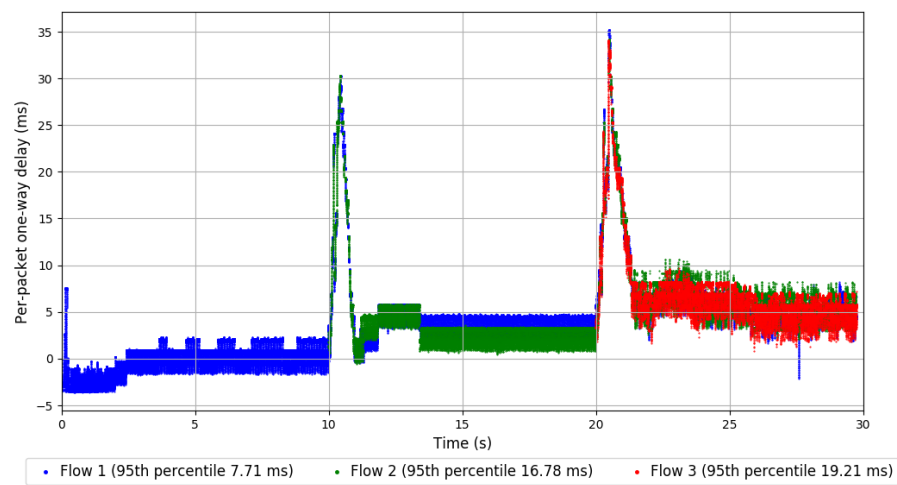
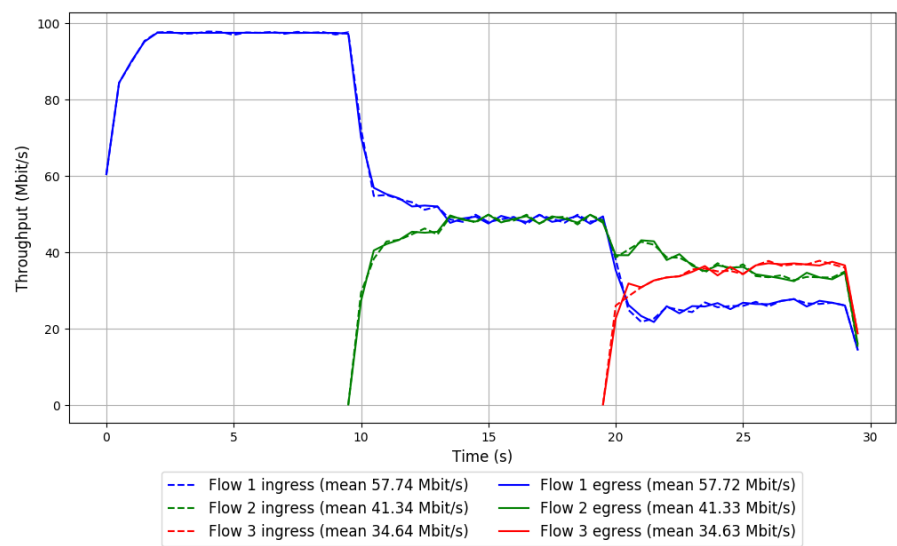
-- Flow 3:

Average throughput: 34.63 Mbit/s

95th percentile per-packet one-way delay: 19.207 ms

Loss rate: 0.00%

Run 8: Report of Indigo-calib — Data Link

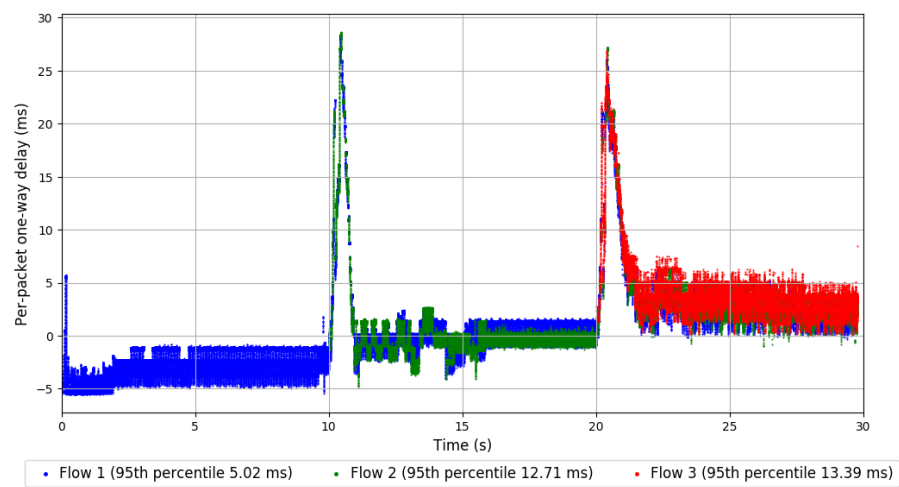
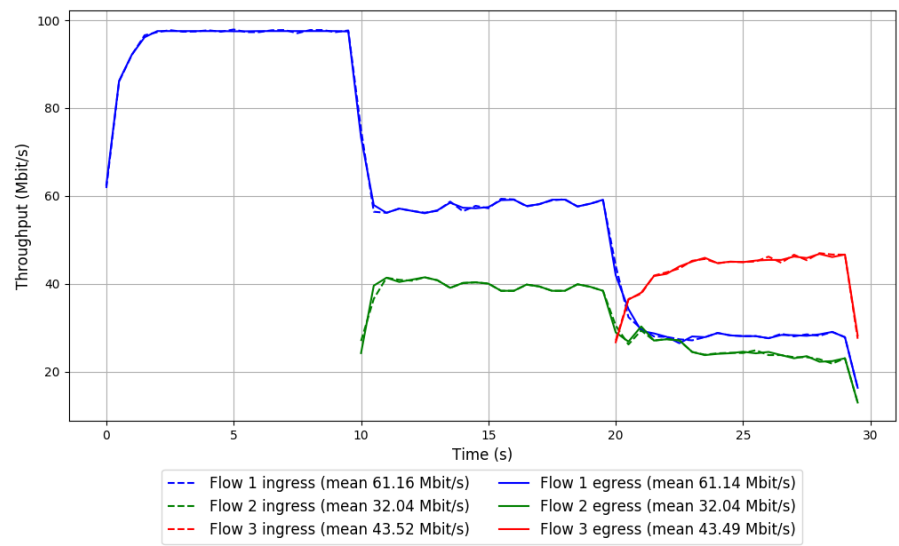


Run 9: Statistics of Indigo-calib

Start at: 2017-12-06 00:03:55
End at: 2017-12-06 00:04:25
Local clock offset: 1.382 ms
Remote clock offset: -12.649 ms

Below is generated by plot.py at 2017-12-06 01:17:42
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.62 Mbit/s
95th percentile per-packet one-way delay: 7.557 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 61.14 Mbit/s
95th percentile per-packet one-way delay: 5.020 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 32.04 Mbit/s
95th percentile per-packet one-way delay: 12.710 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 43.49 Mbit/s
95th percentile per-packet one-way delay: 13.391 ms
Loss rate: 0.00%

Run 9: Report of Indigo-calib — Data Link



Run 10: Statistics of Indigo-calib

Start at: 2017-12-06 00:20:19
End at: 2017-12-06 00:20:49
Local clock offset: 5.664 ms
Remote clock offset: -13.897 ms

Below is generated by plot.py at 2017-12-06 01:17:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.62 Mbit/s
95th percentile per-packet one-way delay: 4.691 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 60.97 Mbit/s
95th percentile per-packet one-way delay: 1.200 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 35.49 Mbit/s
95th percentile per-packet one-way delay: 7.485 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 36.78 Mbit/s
95th percentile per-packet one-way delay: 12.009 ms
Loss rate: 0.00%

Run 10: Report of Indigo-calib — Data Link

