

Pantheon Report

Generated at 2017-12-12 03:52:57 (UTC).

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

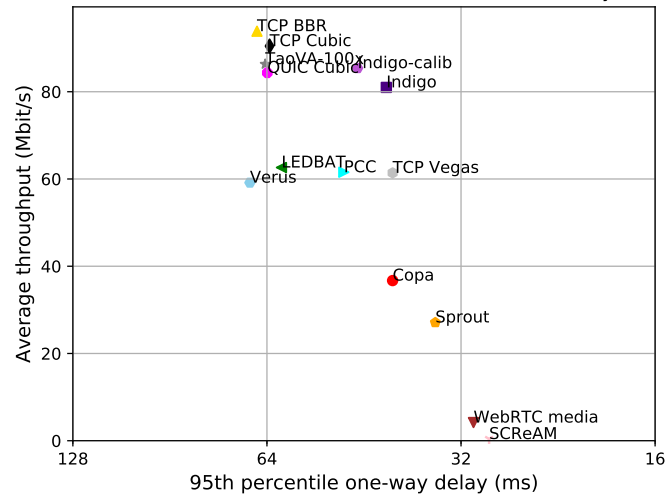
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo_fast**).

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

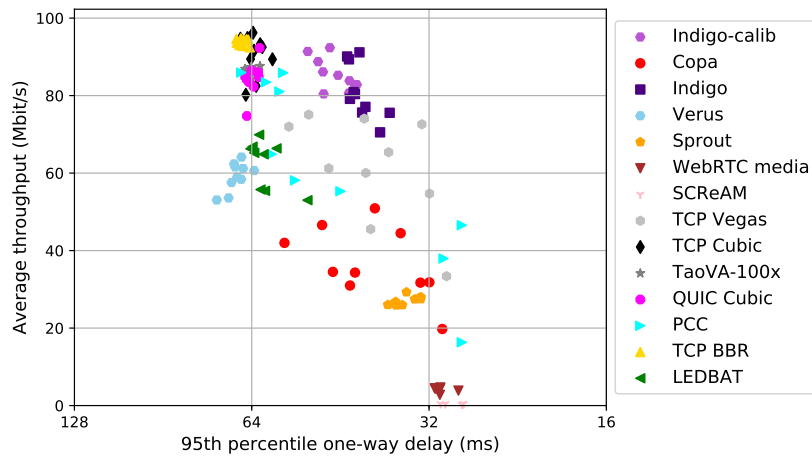
Git summary:

```
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 California 2 Ethernet to Mexico Ethernet, 10 runs of 30s each per scheme
3 flows with 10s interval between flows (mean of all runs by scheme)



test from AWS California 2 Ethernet to Mexico Ethernet, 10 runs of 30s each per scheme
3 flows with 10s interval between flows



| scheme | # runs | mean avg tput (Mbit/s) | | | mean 95th-%ile delay (ms) | | | mean loss rate (%) | | |
|--------------|--------|------------------------|--------|--------|---------------------------|--------|--------|--------------------|--------|--------|
| | | flow 1 | flow 2 | flow 3 | flow 1 | flow 2 | flow 3 | flow 1 | flow 2 | flow 3 |
| TCP BBR | 10 | 84.89 | 8.71 | 10.53 | 66.26 | 66.03 | 66.17 | 22.01 | 31.35 | 30.25 |
| TCP Cubic | 10 | 49.92 | 45.97 | 30.00 | 62.91 | 63.52 | 62.15 | 0.68 | 0.54 | 0.50 |
| LEDBAT | 9 | 37.49 | 27.80 | 20.35 | 58.85 | 61.29 | 56.43 | 0.12 | 0.30 | 0.46 |
| PCC | 10 | 38.24 | 25.85 | 17.12 | 47.56 | 48.05 | 49.67 | 1.02 | 1.65 | 2.08 |
| QUIC Cubic | 9 | 57.73 | 28.78 | 22.73 | 63.52 | 64.39 | 65.04 | 1.28 | 0.92 | 1.23 |
| SCReAM | 5 | 82.96 | 0.21 | 0.22 | 208.41 | 28.97 | 28.94 | 0.03 | 0.09 | 0.00 |
| WebRTC media | 10 | 2.18 | 1.46 | 0.55 | 30.54 | 30.61 | 30.91 | 0.01 | 0.04 | 0.03 |
| Sprout | 10 | 13.61 | 13.65 | 13.38 | 34.83 | 35.12 | 35.44 | 0.04 | 0.05 | 0.01 |
| TaoVA-100x | 10 | 53.48 | 39.58 | 29.94 | 61.70 | 65.16 | 66.49 | 13.40 | 24.71 | 18.32 |
| TCP Vegas | 10 | 30.26 | 31.53 | 30.61 | 40.02 | 36.45 | 35.84 | 0.20 | 0.29 | 0.40 |
| Verus | 10 | 35.15 | 28.52 | 18.02 | 66.92 | 67.22 | 66.63 | 39.15 | 42.46 | 43.89 |
| Copa | 10 | 22.53 | 15.53 | 14.83 | 40.29 | 39.22 | 37.08 | 0.16 | 0.16 | 0.01 |
| Indigo | 10 | 47.08 | 36.67 | 28.94 | 38.64 | 43.18 | 50.11 | 0.17 | 0.12 | 0.12 |
| Indigo-calib | 10 | 52.80 | 33.23 | 31.13 | 41.92 | 48.48 | 51.97 | 0.18 | 0.24 | 0.44 |

Run 1: Statistics of TCP BBR

Start at: 2017-12-11 23:32:30

End at: 2017-12-11 23:33:00

Local clock offset: -0.283 ms

Remote clock offset: 2.267 ms

Below is generated by plot.py at 2017-12-12 03:36:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.05 Mbit/s

95th percentile per-packet one-way delay: 67.192 ms

Loss rate: 21.23%

-- Flow 1:

Average throughput: 86.47 Mbit/s

95th percentile per-packet one-way delay: 67.207 ms

Loss rate: 20.95%

-- Flow 2:

Average throughput: 9.69 Mbit/s

95th percentile per-packet one-way delay: 66.770 ms

Loss rate: 24.14%

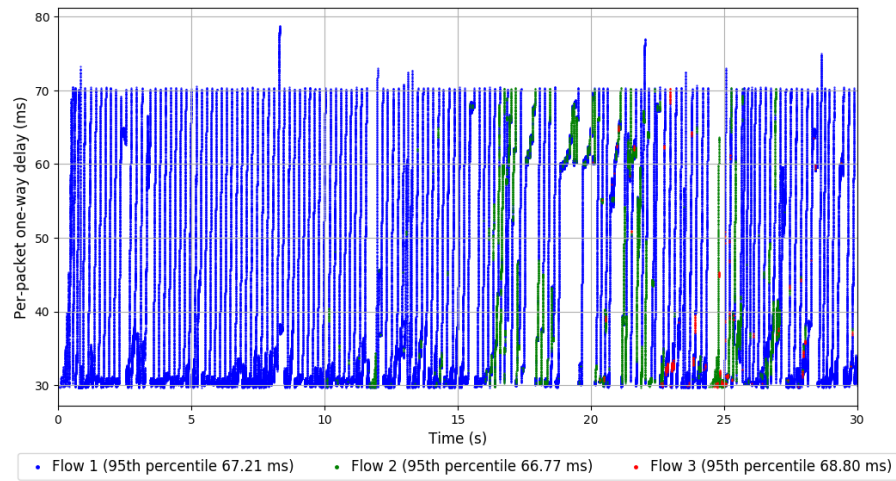
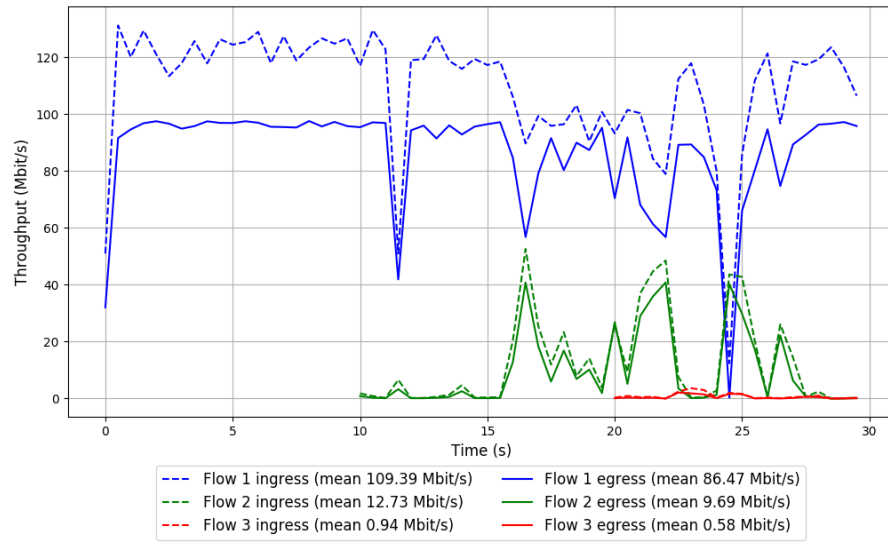
-- Flow 3:

Average throughput: 0.58 Mbit/s

95th percentile per-packet one-way delay: 68.797 ms

Loss rate: 38.94%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2017-12-11 23:55:05

End at: 2017-12-11 23:55:35

Local clock offset: -0.191 ms

Remote clock offset: 0.4 ms

Below is generated by plot.py at 2017-12-12 03:36:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.47 Mbit/s

95th percentile per-packet one-way delay: 64.892 ms

Loss rate: 22.78%

-- Flow 1:

Average throughput: 71.04 Mbit/s

95th percentile per-packet one-way delay: 64.824 ms

Loss rate: 23.13%

-- Flow 2:

Average throughput: 31.29 Mbit/s

95th percentile per-packet one-way delay: 65.147 ms

Loss rate: 21.40%

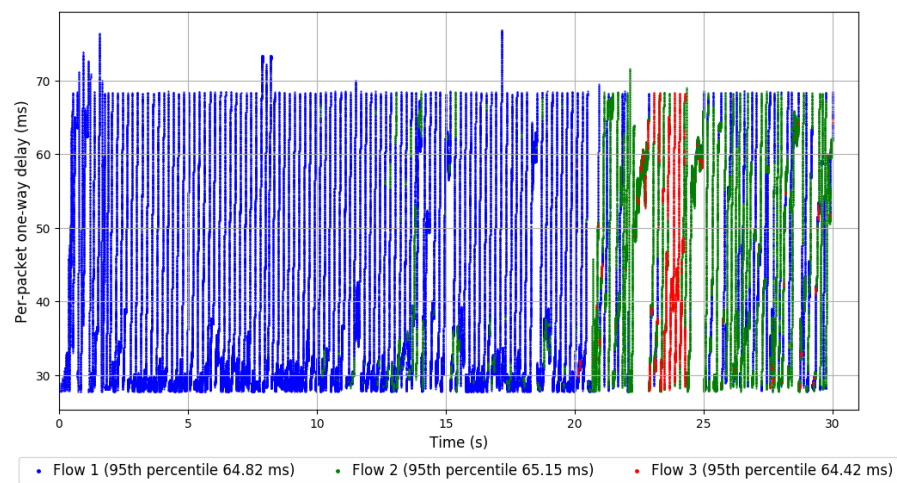
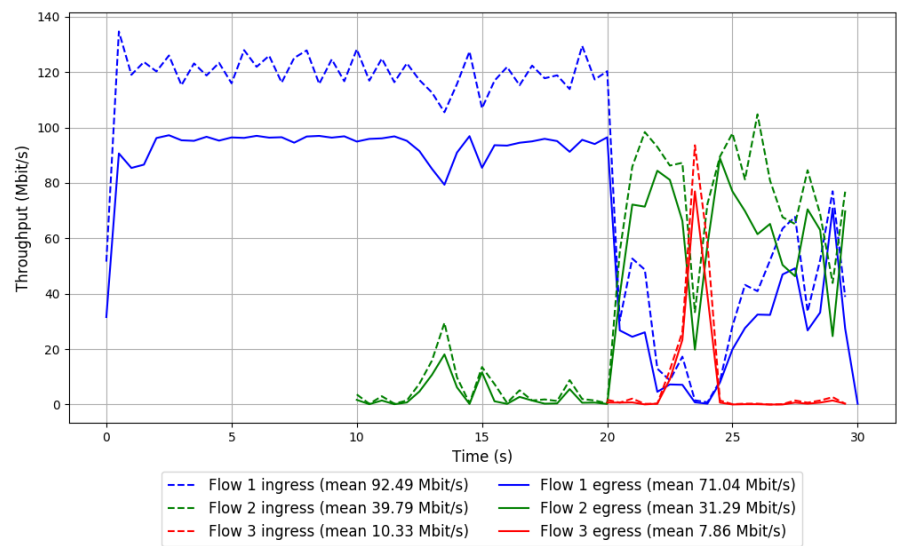
-- Flow 3:

Average throughput: 7.86 Mbit/s

95th percentile per-packet one-way delay: 64.415 ms

Loss rate: 23.84%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2017-12-12 00:17:42

End at: 2017-12-12 00:18:12

Local clock offset: -0.584 ms

Remote clock offset: 2.238 ms

Below is generated by plot.py at 2017-12-12 03:36:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.65 Mbit/s

95th percentile per-packet one-way delay: 67.867 ms

Loss rate: 21.85%

-- Flow 1:

Average throughput: 92.50 Mbit/s

95th percentile per-packet one-way delay: 67.885 ms

Loss rate: 21.68%

-- Flow 2:

Average throughput: 0.45 Mbit/s

95th percentile per-packet one-way delay: 63.770 ms

Loss rate: 39.36%

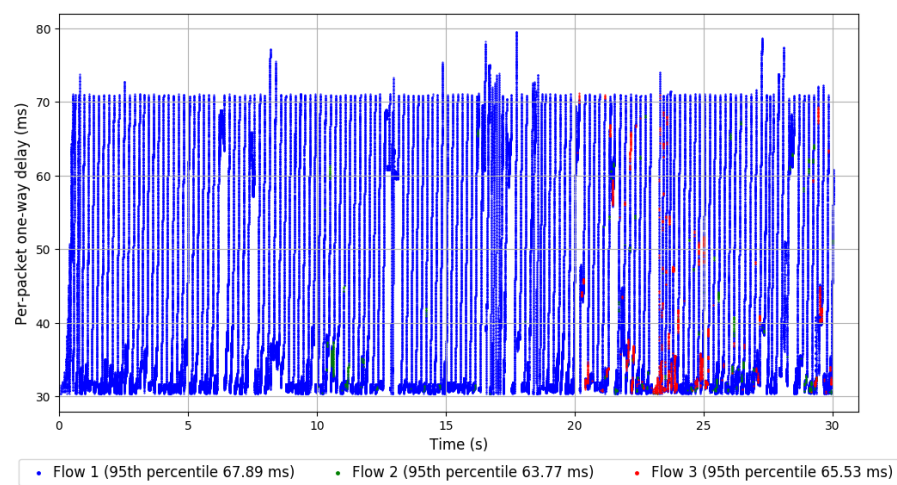
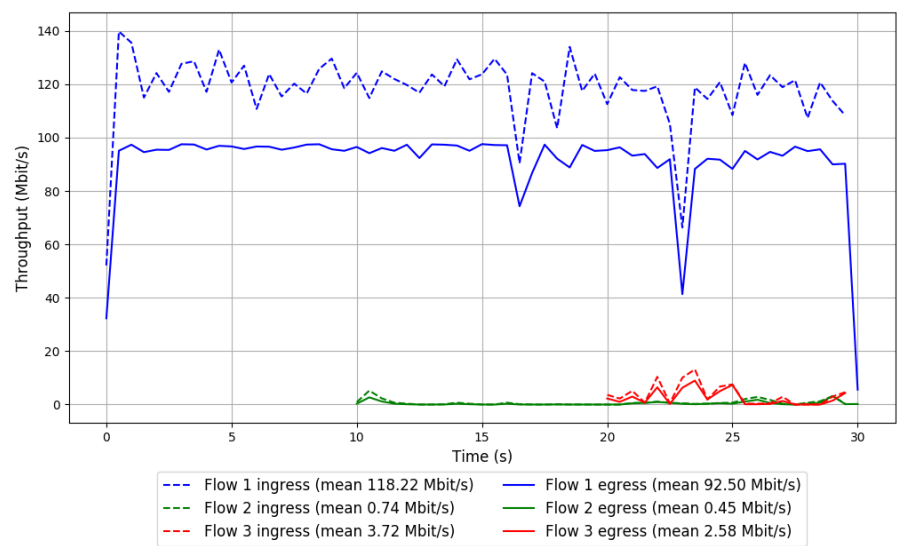
-- Flow 3:

Average throughput: 2.58 Mbit/s

95th percentile per-packet one-way delay: 65.532 ms

Loss rate: 30.96%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2017-12-12 00:40:33

End at: 2017-12-12 00:41:03

Local clock offset: -0.734 ms

Remote clock offset: 0.743 ms

Below is generated by plot.py at 2017-12-12 03:36:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.79 Mbit/s

95th percentile per-packet one-way delay: 66.769 ms

Loss rate: 22.45%

-- Flow 1:

Average throughput: 90.41 Mbit/s

95th percentile per-packet one-way delay: 66.807 ms

Loss rate: 22.25%

-- Flow 2:

Average throughput: 2.33 Mbit/s

95th percentile per-packet one-way delay: 64.329 ms

Loss rate: 23.22%

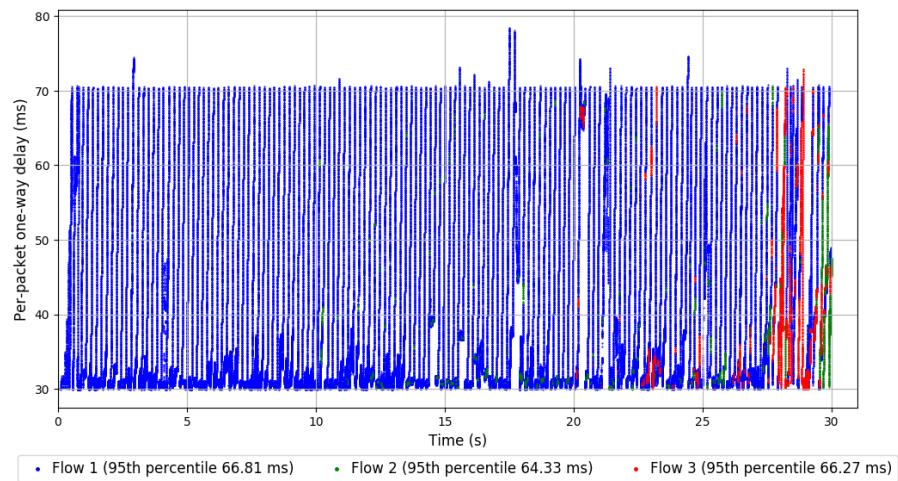
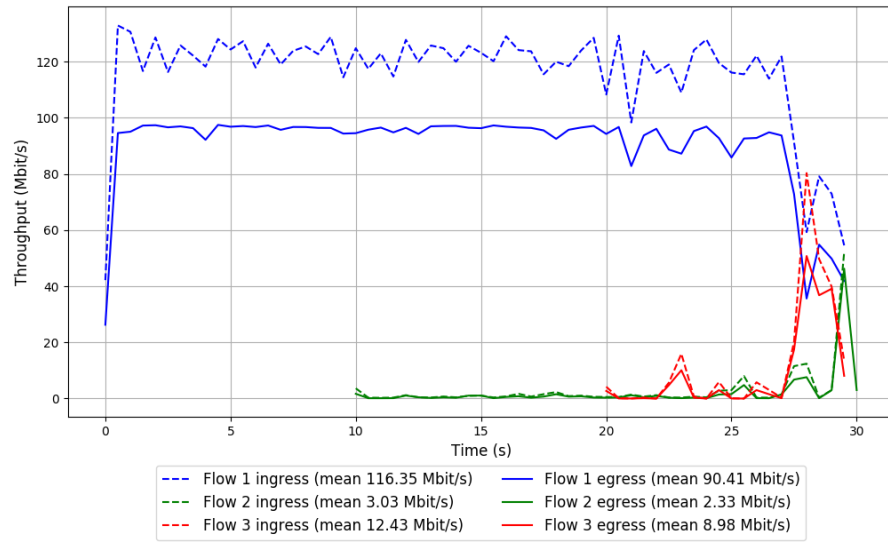
-- Flow 3:

Average throughput: 8.98 Mbit/s

95th percentile per-packet one-way delay: 66.274 ms

Loss rate: 27.59%

Run 4: Report of TCP BBR — Data Link

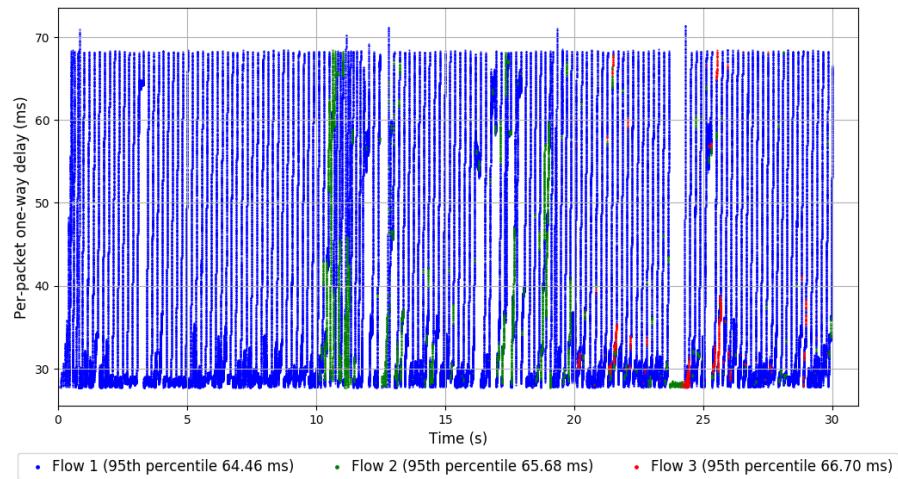
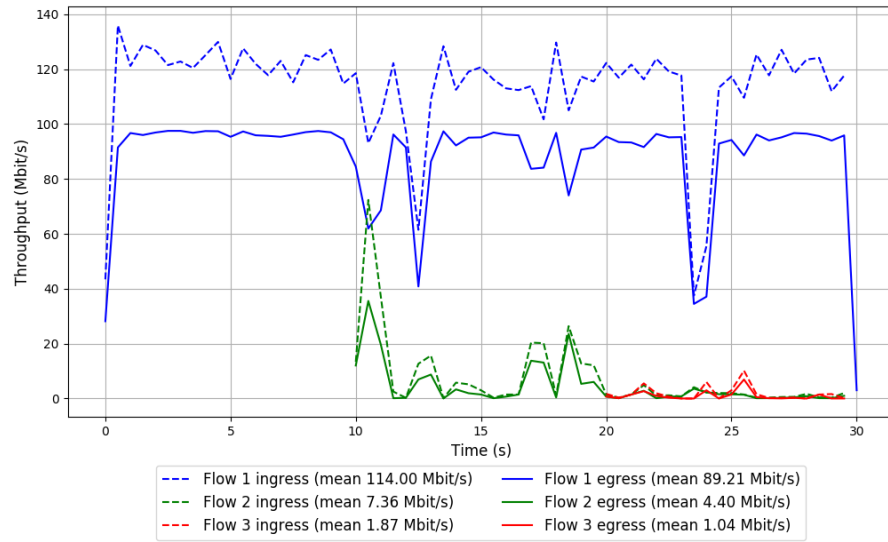


Run 5: Statistics of TCP BBR

Start at: 2017-12-12 01:03:37
End at: 2017-12-12 01:04:07
Local clock offset: -0.302 ms
Remote clock offset: -3.881 ms

Below is generated by plot.py at 2017-12-12 03:36:19
Datalink statistics
-- Total of 3 flows:
Average throughput: 92.46 Mbit/s
95th percentile per-packet one-way delay: 64.491 ms
Loss rate: 22.58%
-- Flow 1:
Average throughput: 89.21 Mbit/s
95th percentile per-packet one-way delay: 64.462 ms
Loss rate: 21.70%
-- Flow 2:
Average throughput: 4.40 Mbit/s
95th percentile per-packet one-way delay: 65.683 ms
Loss rate: 40.45%
-- Flow 3:
Average throughput: 1.04 Mbit/s
95th percentile per-packet one-way delay: 66.698 ms
Loss rate: 44.76%

Run 5: Report of TCP BBR — Data Link

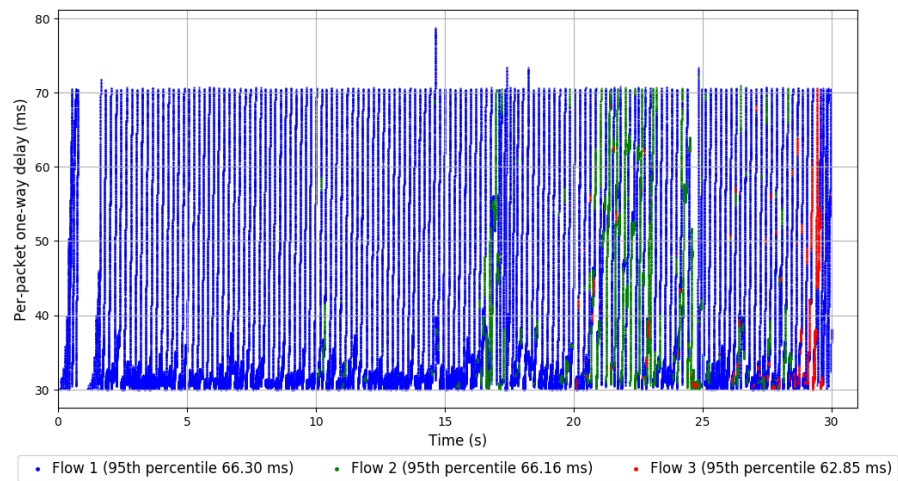
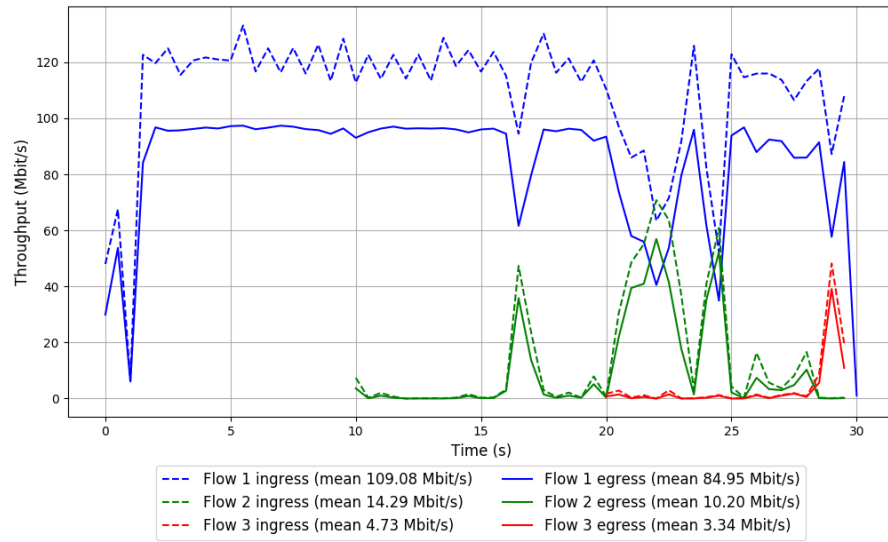


Run 6: Statistics of TCP BBR

Start at: 2017-12-12 01:28:20
End at: 2017-12-12 01:28:50
Local clock offset: -0.004 ms
Remote clock offset: -3.398 ms

Below is generated by plot.py at 2017-12-12 03:36:19
Datalink statistics
-- Total of 3 flows:
Average throughput: 92.83 Mbit/s
95th percentile per-packet one-way delay: 66.270 ms
Loss rate: 22.70%
-- Flow 1:
Average throughput: 84.95 Mbit/s
95th percentile per-packet one-way delay: 66.295 ms
Loss rate: 22.10%
-- Flow 2:
Average throughput: 10.20 Mbit/s
95th percentile per-packet one-way delay: 66.159 ms
Loss rate: 28.51%
-- Flow 3:
Average throughput: 3.34 Mbit/s
95th percentile per-packet one-way delay: 62.851 ms
Loss rate: 29.22%

Run 6: Report of TCP BBR — Data Link

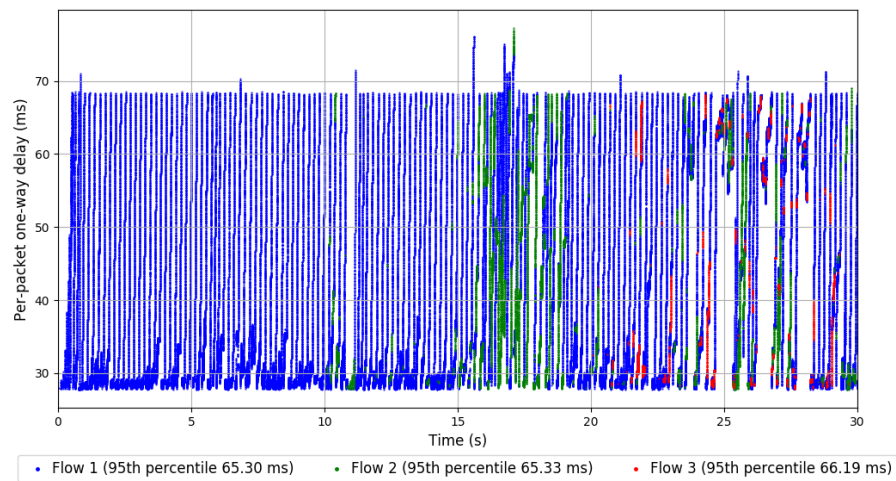
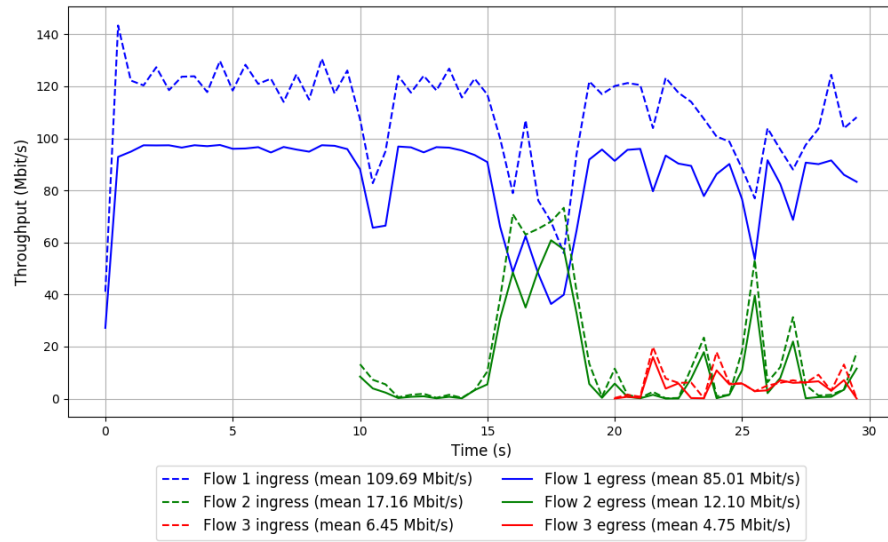


Run 7: Statistics of TCP BBR

Start at: 2017-12-12 01:53:34
End at: 2017-12-12 01:54:04
Local clock offset: 0.535 ms
Remote clock offset: -5.732 ms

Below is generated by plot.py at 2017-12-12 03:36:19
Datalink statistics
-- Total of 3 flows:
Average throughput: 94.55 Mbit/s
95th percentile per-packet one-way delay: 65.330 ms
Loss rate: 23.23%
-- Flow 1:
Average throughput: 85.01 Mbit/s
95th percentile per-packet one-way delay: 65.302 ms
Loss rate: 22.50%
-- Flow 2:
Average throughput: 12.10 Mbit/s
95th percentile per-packet one-way delay: 65.331 ms
Loss rate: 29.73%
-- Flow 3:
Average throughput: 4.75 Mbit/s
95th percentile per-packet one-way delay: 66.192 ms
Loss rate: 26.41%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2017-12-12 02:18:53

End at: 2017-12-12 02:19:23

Local clock offset: 1.063 ms

Remote clock offset: -2.91 ms

Below is generated by plot.py at 2017-12-12 03:36:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.42 Mbit/s

95th percentile per-packet one-way delay: 66.087 ms

Loss rate: 21.27%

-- Flow 1:

Average throughput: 92.80 Mbit/s

95th percentile per-packet one-way delay: 66.073 ms

Loss rate: 20.96%

-- Flow 2:

Average throughput: 1.31 Mbit/s

95th percentile per-packet one-way delay: 67.476 ms

Loss rate: 39.84%

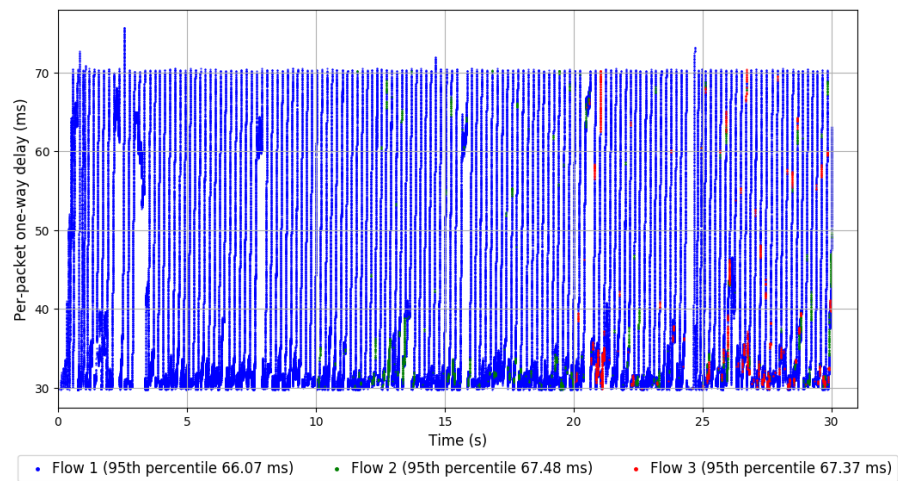
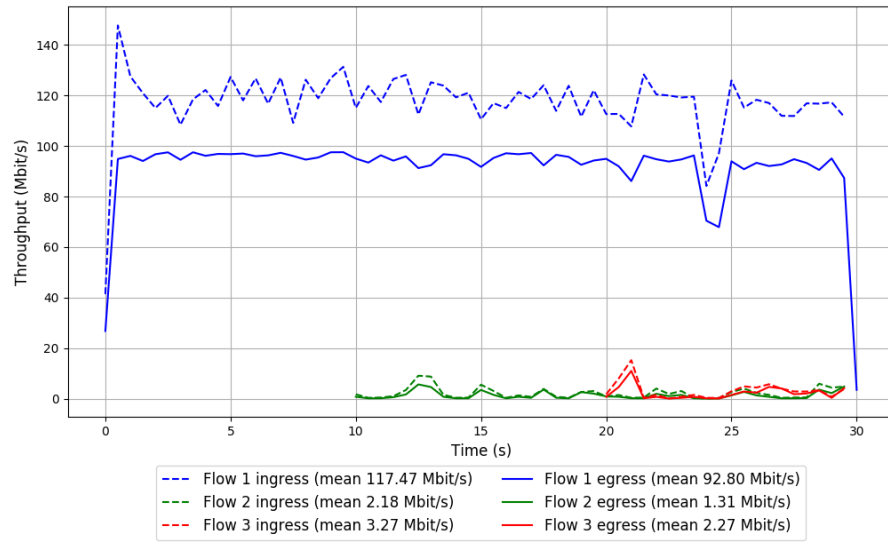
-- Flow 3:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 67.366 ms

Loss rate: 30.42%

Run 8: Report of TCP BBR — Data Link

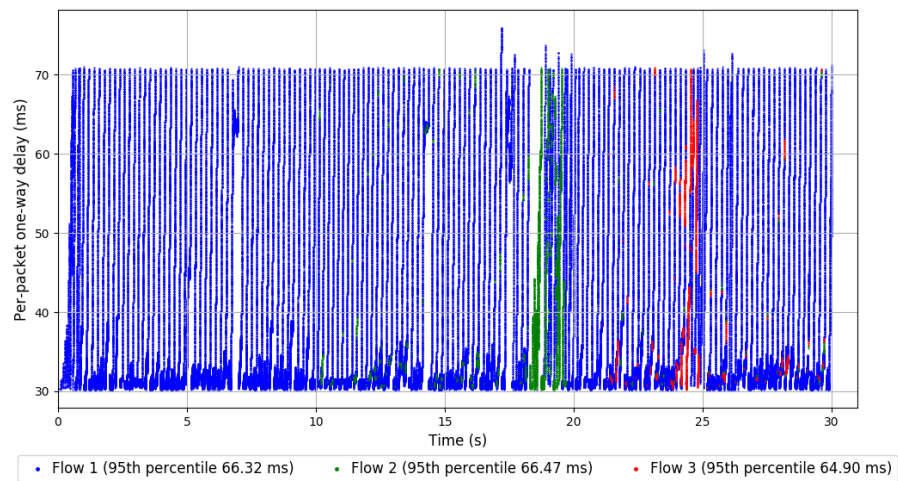
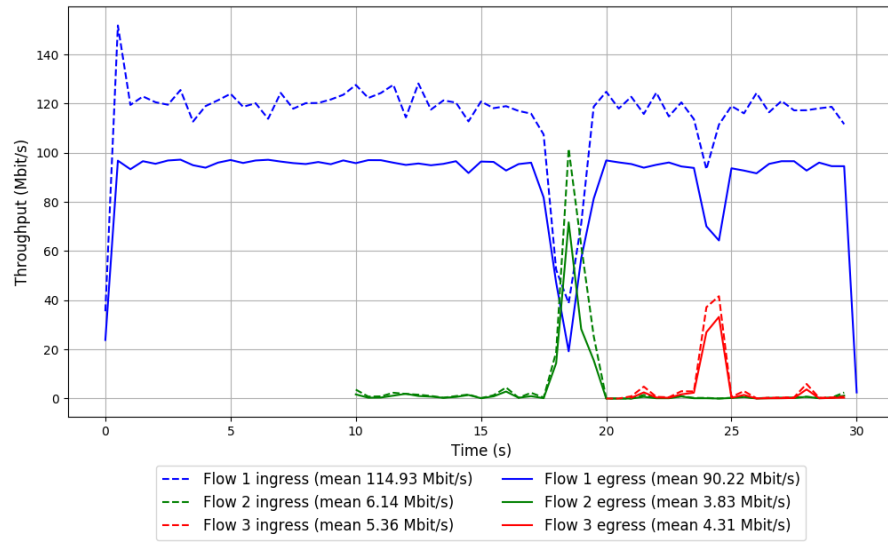


Run 9: Statistics of TCP BBR

Start at: 2017-12-12 02:43:04
End at: 2017-12-12 02:43:34
Local clock offset: 1.348 ms
Remote clock offset: -1.946 ms

Below is generated by plot.py at 2017-12-12 03:37:46
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.97 Mbit/s
95th percentile per-packet one-way delay: 66.312 ms
Loss rate: 22.12%
-- Flow 1:
Average throughput: 90.22 Mbit/s
95th percentile per-packet one-way delay: 66.320 ms
Loss rate: 21.47%
-- Flow 2:
Average throughput: 3.83 Mbit/s
95th percentile per-packet one-way delay: 66.468 ms
Loss rate: 37.79%
-- Flow 3:
Average throughput: 4.31 Mbit/s
95th percentile per-packet one-way delay: 64.901 ms
Loss rate: 28.44%

Run 9: Report of TCP BBR — Data Link

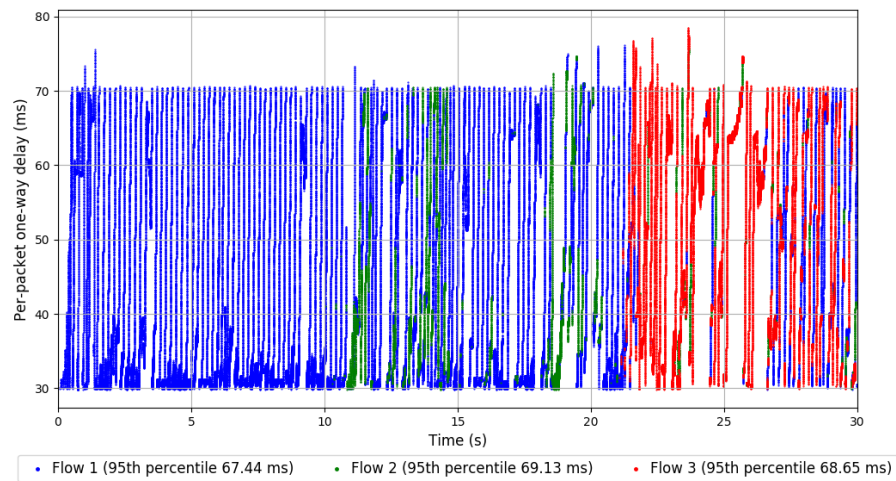
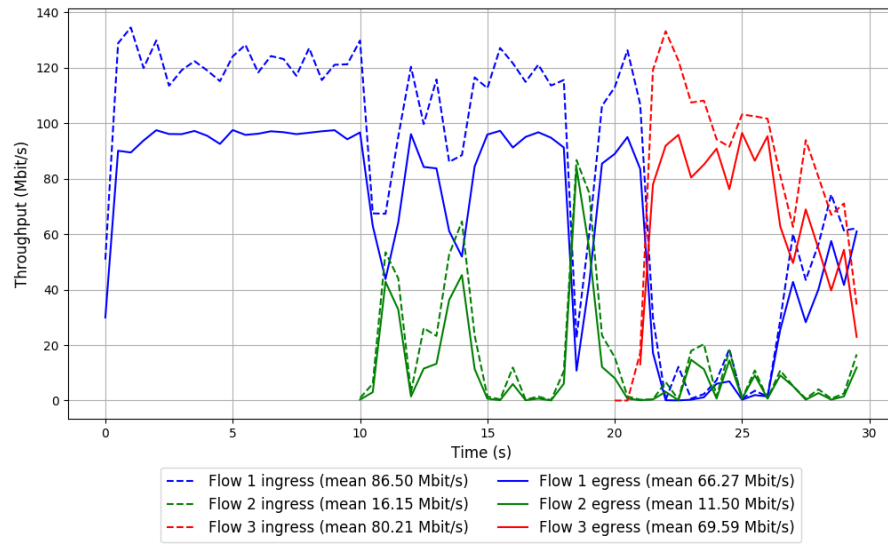


Run 10: Statistics of TCP BBR

Start at: 2017-12-12 03:07:57
End at: 2017-12-12 03:08:27
Local clock offset: 1.402 ms
Remote clock offset: -2.152 ms

Below is generated by plot.py at 2017-12-12 03:37:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 94.63 Mbit/s
95th percentile per-packet one-way delay: 67.965 ms
Loss rate: 23.56%
-- Flow 1:
Average throughput: 66.27 Mbit/s
95th percentile per-packet one-way delay: 67.445 ms
Loss rate: 23.38%
-- Flow 2:
Average throughput: 11.50 Mbit/s
95th percentile per-packet one-way delay: 69.129 ms
Loss rate: 29.02%
-- Flow 3:
Average throughput: 69.59 Mbit/s
95th percentile per-packet one-way delay: 68.648 ms
Loss rate: 21.93%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2017-12-11 23:26:23

End at: 2017-12-11 23:26:53

Local clock offset: -0.36 ms

Remote clock offset: 0.257 ms

Below is generated by plot.py at 2017-12-12 03:37:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.23 Mbit/s

95th percentile per-packet one-way delay: 63.665 ms

Loss rate: 0.85%

-- Flow 1:

Average throughput: 60.38 Mbit/s

95th percentile per-packet one-way delay: 63.842 ms

Loss rate: 0.97%

-- Flow 2:

Average throughput: 43.65 Mbit/s

95th percentile per-packet one-way delay: 63.647 ms

Loss rate: 0.57%

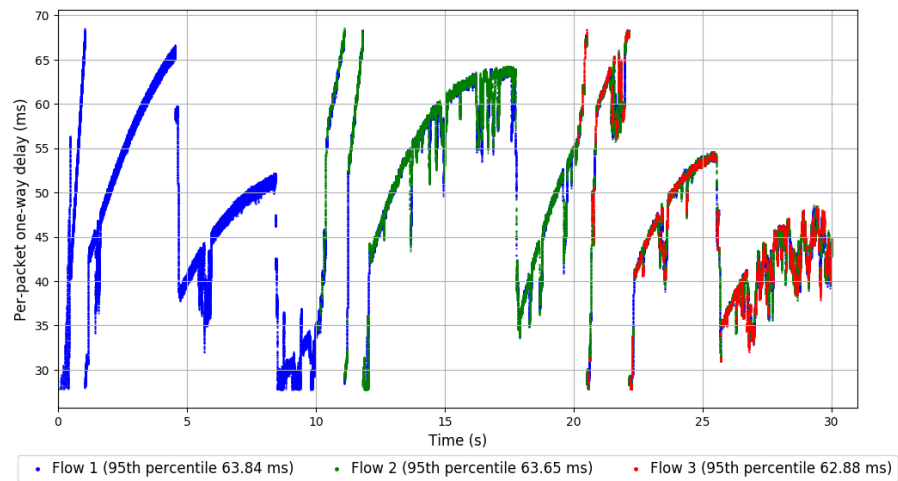
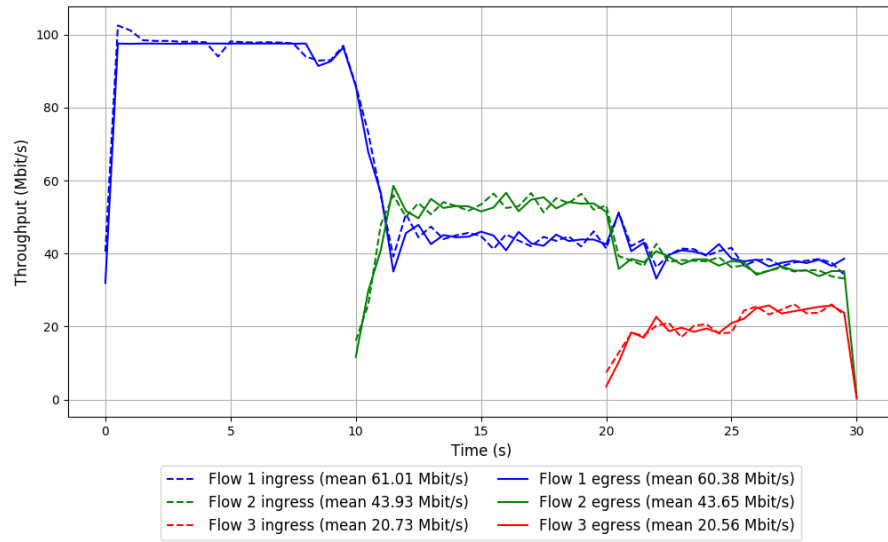
-- Flow 3:

Average throughput: 20.56 Mbit/s

95th percentile per-packet one-way delay: 62.885 ms

Loss rate: 0.93%

Run 1: Report of TCP Cubic — Data Link

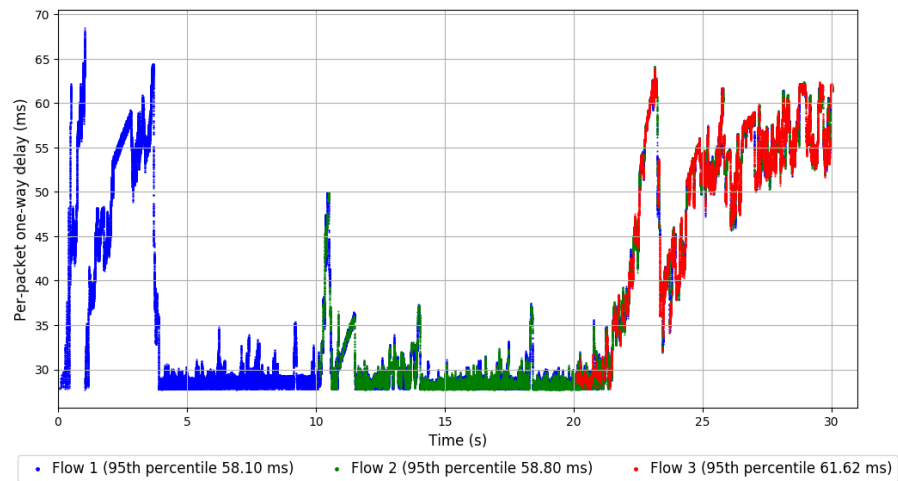
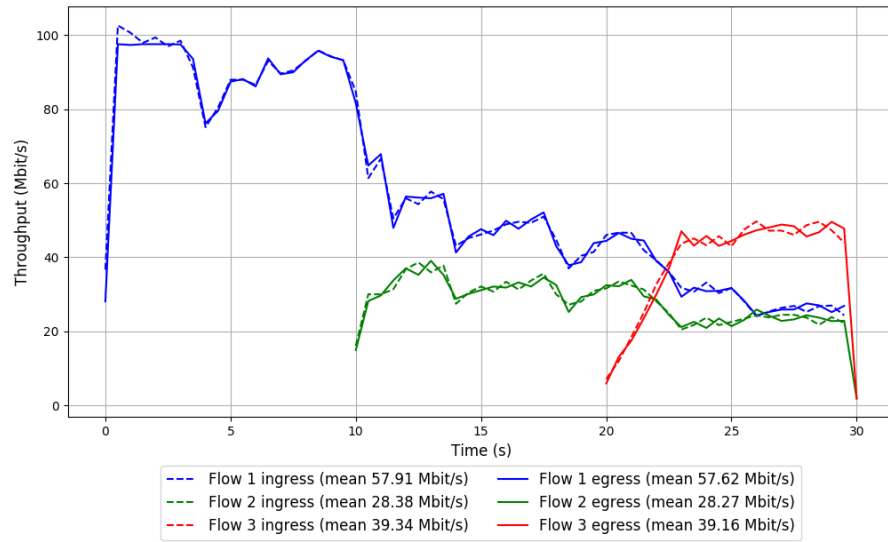


Run 2: Statistics of TCP Cubic

Start at: 2017-12-11 23:48:28
End at: 2017-12-11 23:48:58
Local clock offset: -0.087 ms
Remote clock offset: 0.617 ms

Below is generated by plot.py at 2017-12-12 03:37:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 89.37 Mbit/s
95th percentile per-packet one-way delay: 59.015 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 57.62 Mbit/s
95th percentile per-packet one-way delay: 58.097 ms
Loss rate: 0.55%
-- Flow 2:
Average throughput: 28.27 Mbit/s
95th percentile per-packet one-way delay: 58.805 ms
Loss rate: 0.21%
-- Flow 3:
Average throughput: 39.16 Mbit/s
95th percentile per-packet one-way delay: 61.615 ms
Loss rate: 0.12%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2017-12-12 00:11:07

End at: 2017-12-12 00:11:37

Local clock offset: -0.462 ms

Remote clock offset: 1.907 ms

Below is generated by plot.py at 2017-12-12 03:37:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.68 Mbit/s

95th percentile per-packet one-way delay: 66.882 ms

Loss rate: 0.43%

-- Flow 1:

Average throughput: 58.88 Mbit/s

95th percentile per-packet one-way delay: 65.900 ms

Loss rate: 0.48%

-- Flow 2:

Average throughput: 40.66 Mbit/s

95th percentile per-packet one-way delay: 67.143 ms

Loss rate: 0.25%

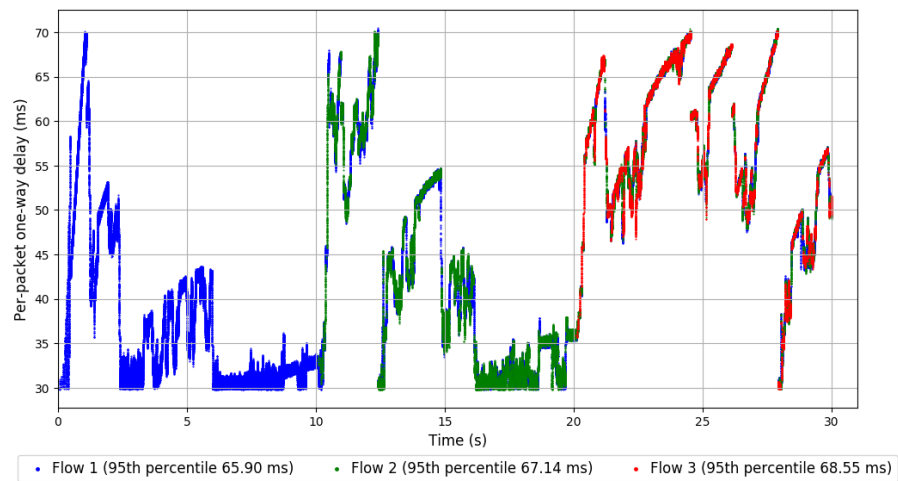
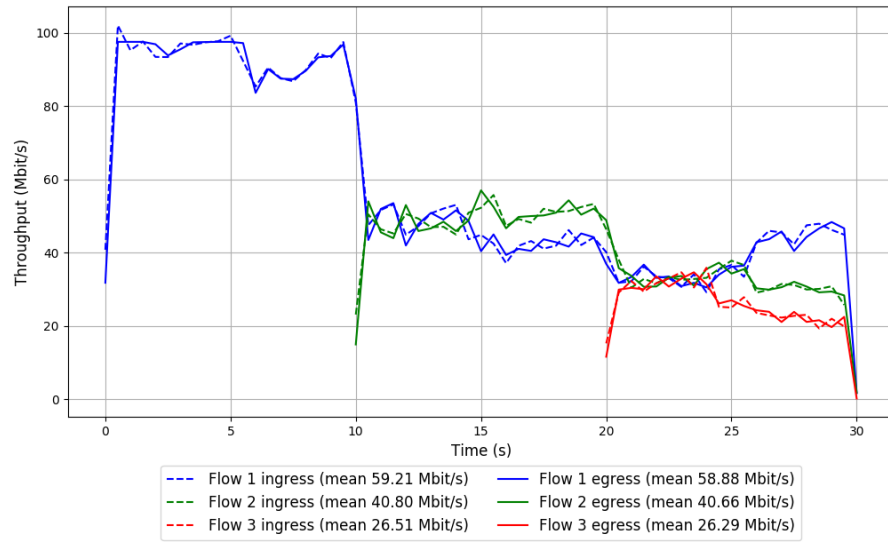
-- Flow 3:

Average throughput: 26.29 Mbit/s

95th percentile per-packet one-way delay: 68.550 ms

Loss rate: 0.68%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2017-12-12 00:33:31

End at: 2017-12-12 00:34:01

Local clock offset: -0.731 ms

Remote clock offset: 0.972 ms

Below is generated by plot.py at 2017-12-12 03:37:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.52 Mbit/s

95th percentile per-packet one-way delay: 61.409 ms

Loss rate: 0.50%

-- Flow 1:

Average throughput: 54.94 Mbit/s

95th percentile per-packet one-way delay: 61.615 ms

Loss rate: 0.45%

-- Flow 2:

Average throughput: 29.70 Mbit/s

95th percentile per-packet one-way delay: 61.413 ms

Loss rate: 0.34%

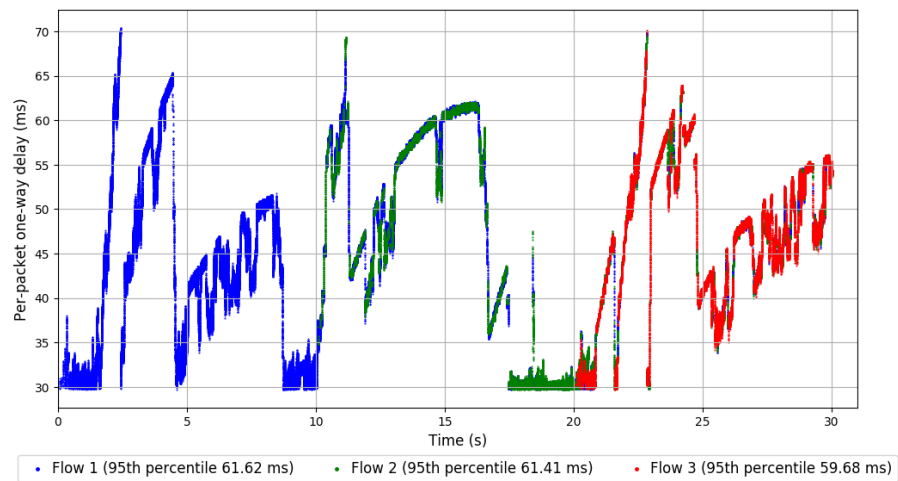
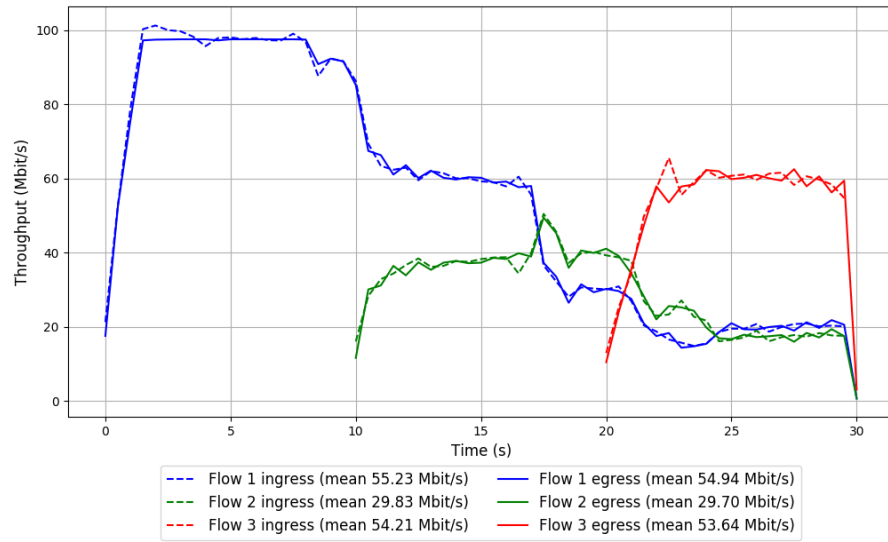
-- Flow 3:

Average throughput: 53.64 Mbit/s

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

Loss rate: 0.82%

Run 4: Report of TCP Cubic — Data Link

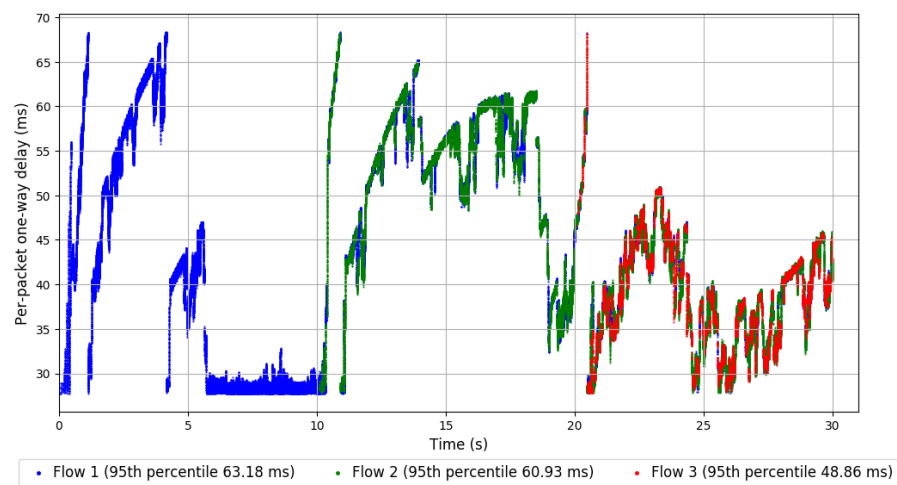
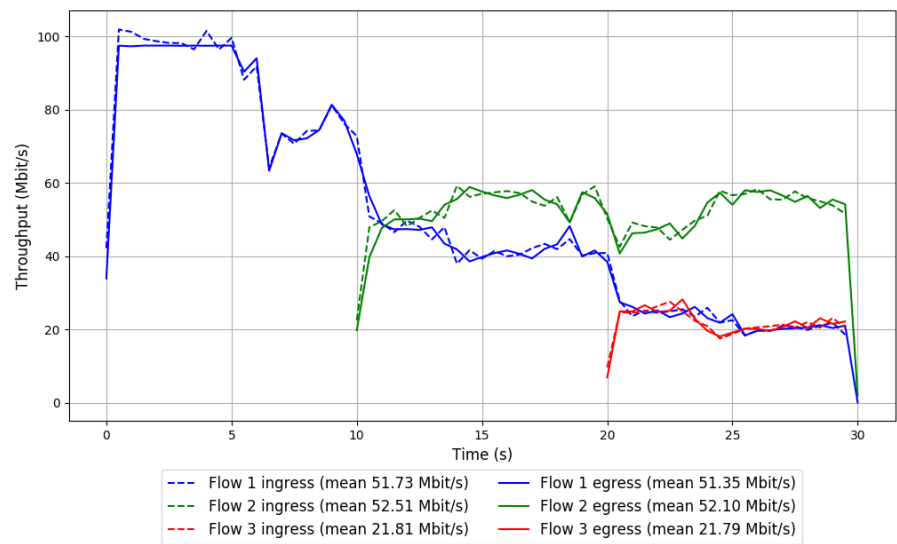


Run 5: Statistics of TCP Cubic

Start at: 2017-12-12 00:56:26
End at: 2017-12-12 00:56:56
Local clock offset: -0.526 ms
Remote clock offset: -3.213 ms

Below is generated by plot.py at 2017-12-12 03:37:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.26 Mbit/s
95th percentile per-packet one-way delay: 61.918 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 51.35 Mbit/s
95th percentile per-packet one-way delay: 63.179 ms
Loss rate: 0.70%
-- Flow 2:
Average throughput: 52.10 Mbit/s
95th percentile per-packet one-way delay: 60.934 ms
Loss rate: 0.72%
-- Flow 3:
Average throughput: 21.79 Mbit/s
95th percentile per-packet one-way delay: 48.862 ms
Loss rate: 0.15%

Run 5: Report of TCP Cubic — Data Link

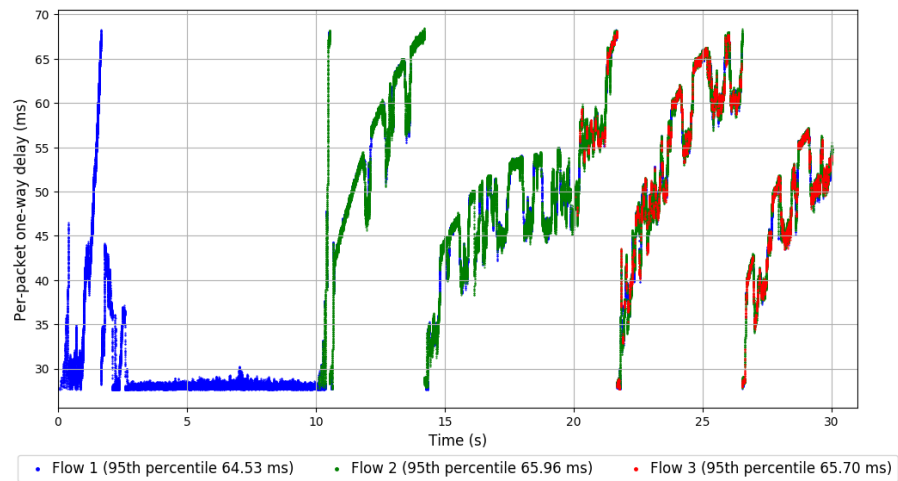
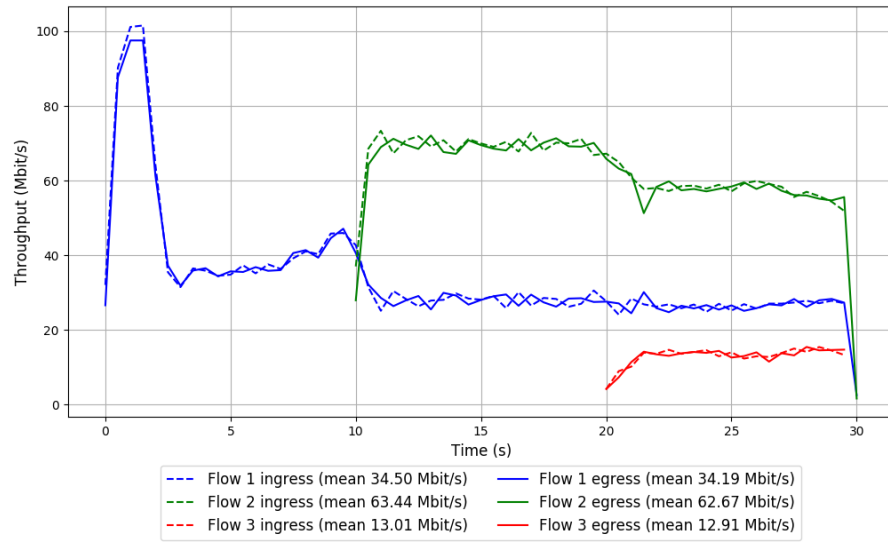


Run 6: Statistics of TCP Cubic

Start at: 2017-12-12 01:21:05
End at: 2017-12-12 01:21:35
Local clock offset: 0.02 ms
Remote clock offset: -5.171 ms

Below is generated by plot.py at 2017-12-12 03:37:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 80.20 Mbit/s
95th percentile per-packet one-way delay: 65.493 ms
Loss rate: 0.96%
-- Flow 1:
Average throughput: 34.19 Mbit/s
95th percentile per-packet one-way delay: 64.534 ms
Loss rate: 0.84%
-- Flow 2:
Average throughput: 62.67 Mbit/s
95th percentile per-packet one-way delay: 65.962 ms
Loss rate: 1.08%
-- Flow 3:
Average throughput: 12.91 Mbit/s
95th percentile per-packet one-way delay: 65.699 ms
Loss rate: 0.72%

Run 6: Report of TCP Cubic — Data Link

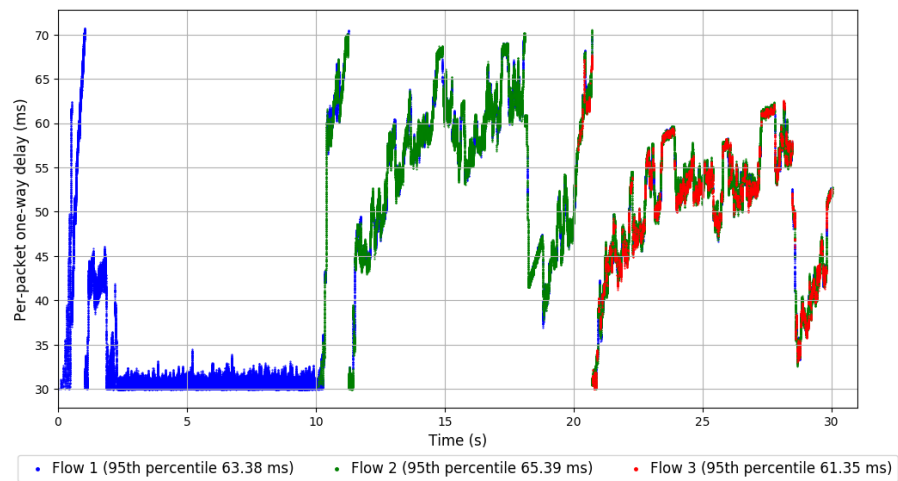
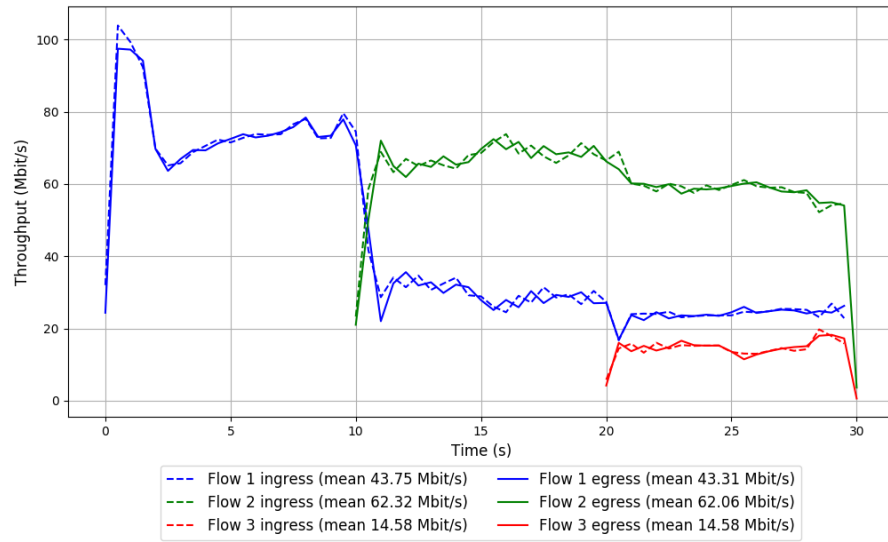


Run 7: Statistics of TCP Cubic

Start at: 2017-12-12 01:45:55
End at: 2017-12-12 01:46:25
Local clock offset: 0.22 ms
Remote clock offset: -3.856 ms

Below is generated by plot.py at 2017-12-12 03:38:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 89.44 Mbit/s
95th percentile per-packet one-way delay: 64.292 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 43.31 Mbit/s
95th percentile per-packet one-way delay: 63.381 ms
Loss rate: 0.92%
-- Flow 2:
Average throughput: 62.06 Mbit/s
95th percentile per-packet one-way delay: 65.392 ms
Loss rate: 0.31%
-- Flow 3:
Average throughput: 14.58 Mbit/s
95th percentile per-packet one-way delay: 61.354 ms
Loss rate: 0.04%

Run 7: Report of TCP Cubic — Data Link

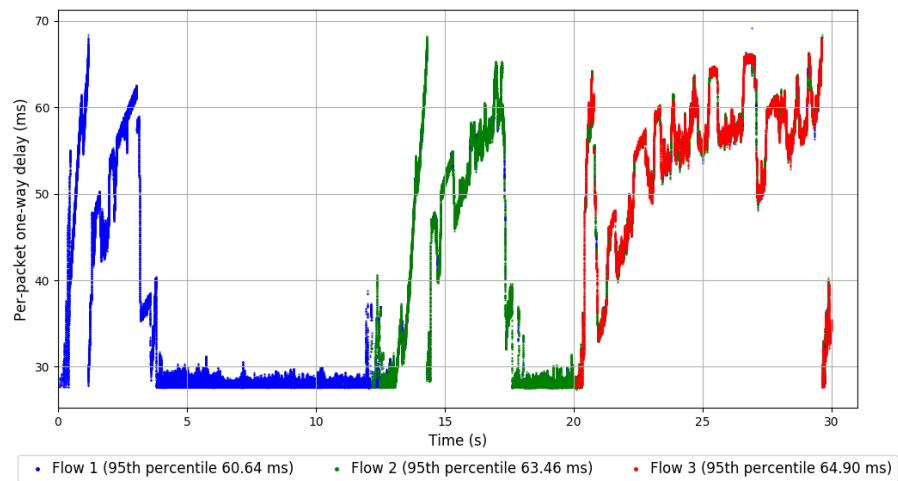
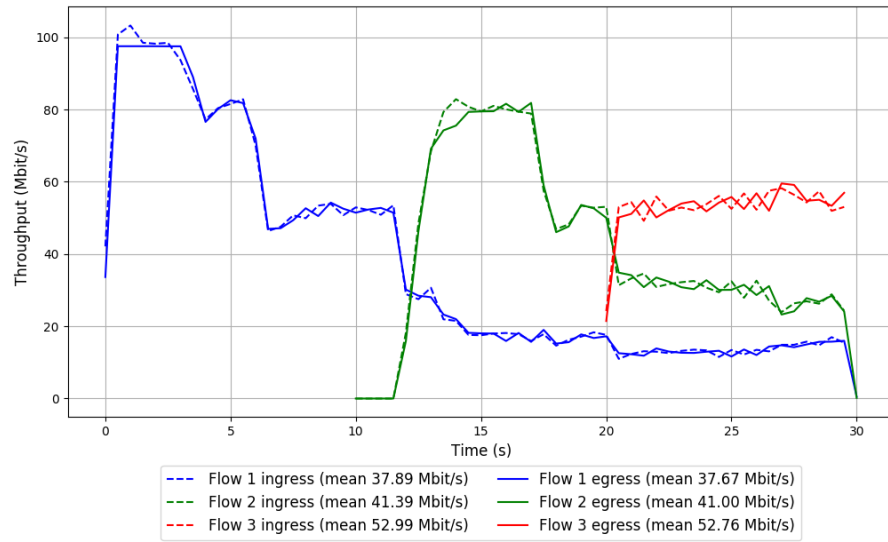


Run 8: Statistics of TCP Cubic

Start at: 2017-12-12 02:11:06
End at: 2017-12-12 02:11:36
Local clock offset: 0.996 ms
Remote clock offset: -5.387 ms

Below is generated by plot.py at 2017-12-12 03:38:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 82.50 Mbit/s
95th percentile per-packet one-way delay: 62.901 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 37.67 Mbit/s
95th percentile per-packet one-way delay: 60.642 ms
Loss rate: 0.54%
-- Flow 2:
Average throughput: 41.00 Mbit/s
95th percentile per-packet one-way delay: 63.461 ms
Loss rate: 0.92%
-- Flow 3:
Average throughput: 52.76 Mbit/s
95th percentile per-packet one-way delay: 64.898 ms
Loss rate: 0.35%

Run 8: Report of TCP Cubic — Data Link

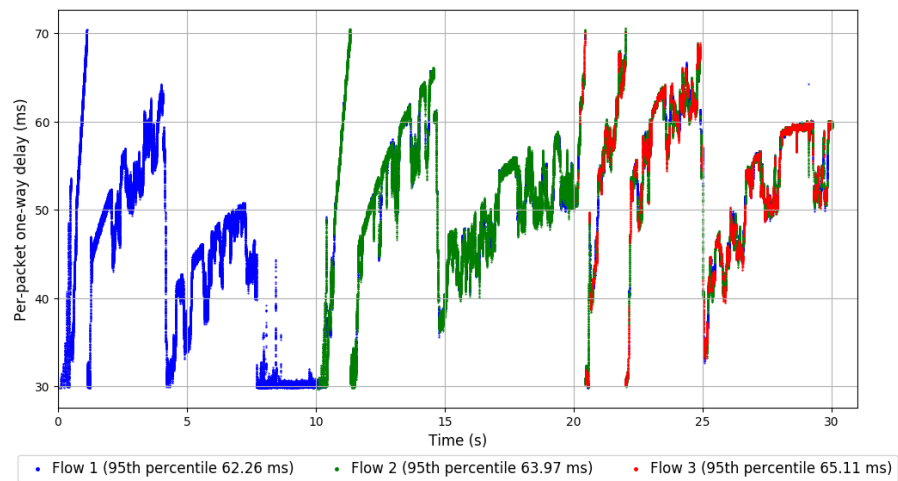
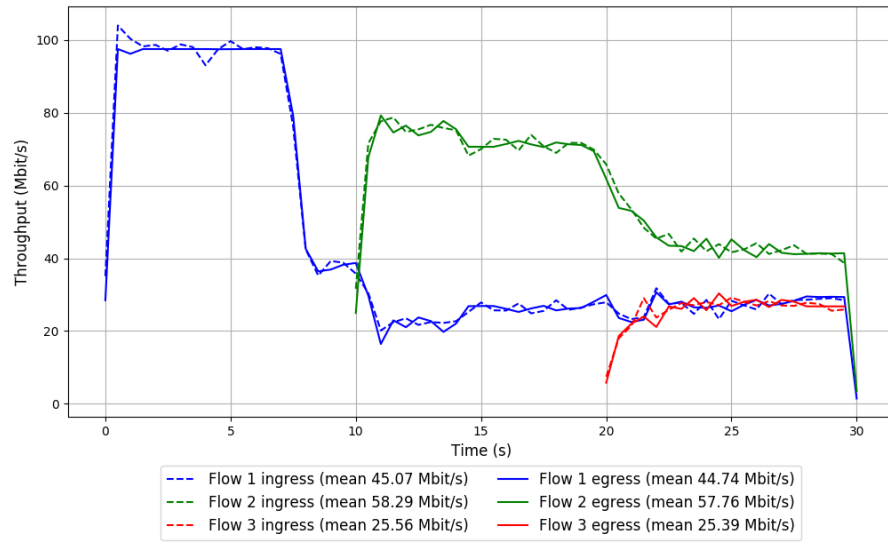


Run 9: Statistics of TCP Cubic

Start at: 2017-12-12 02:35:39
End at: 2017-12-12 02:36:09
Local clock offset: 1.278 ms
Remote clock offset: -2.339 ms

Below is generated by plot.py at 2017-12-12 03:39:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 91.59 Mbit/s
95th percentile per-packet one-way delay: 63.436 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 44.74 Mbit/s
95th percentile per-packet one-way delay: 62.255 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 57.76 Mbit/s
95th percentile per-packet one-way delay: 63.966 ms
Loss rate: 0.76%
-- Flow 3:
Average throughput: 25.39 Mbit/s
95th percentile per-packet one-way delay: 65.109 ms
Loss rate: 1.01%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2017-12-12 03:00:36

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

Local clock offset: 1.503 ms

Remote clock offset: -1.62 ms

Below is generated by plot.py at 2017-12-12 03:39:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.87 Mbit/s

95th percentile per-packet one-way delay: 65.056 ms

Loss rate: 0.52%

-- Flow 1:

Average throughput: 56.13 Mbit/s

95th percentile per-packet one-way delay: 65.663 ms

Loss rate: 0.72%

-- Flow 2:

Average throughput: 41.82 Mbit/s

95th percentile per-packet one-way delay: 64.492 ms

Loss rate: 0.26%

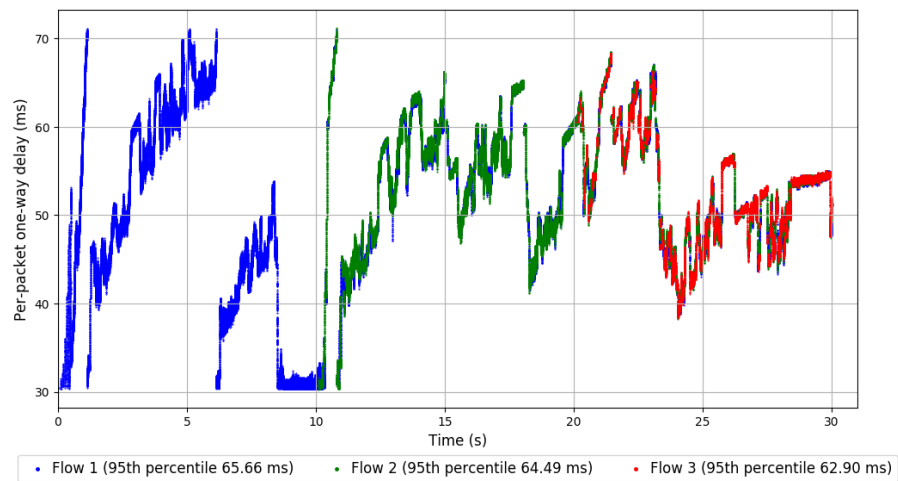
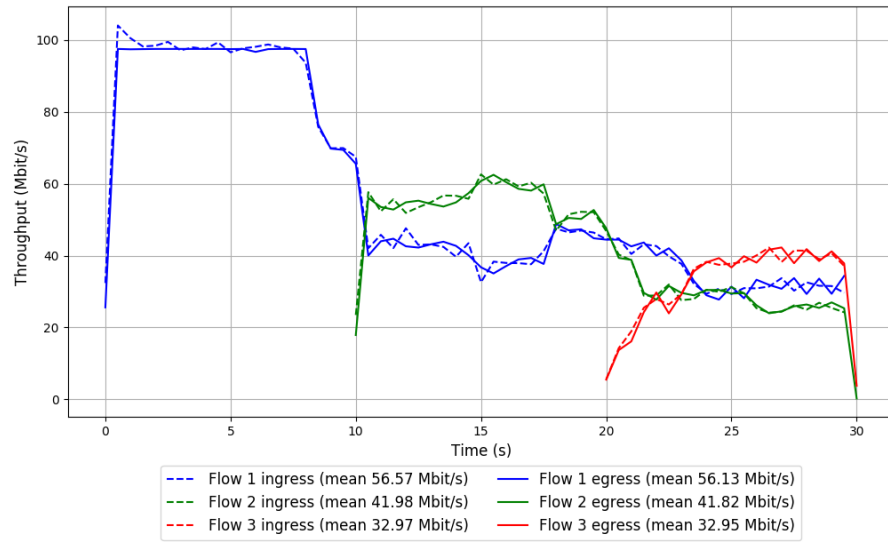
-- Flow 3:

Average throughput: 32.95 Mbit/s

95th percentile per-packet one-way delay: 62.895 ms

Loss rate: 0.16%

Run 10: Report of TCP Cubic — Data Link

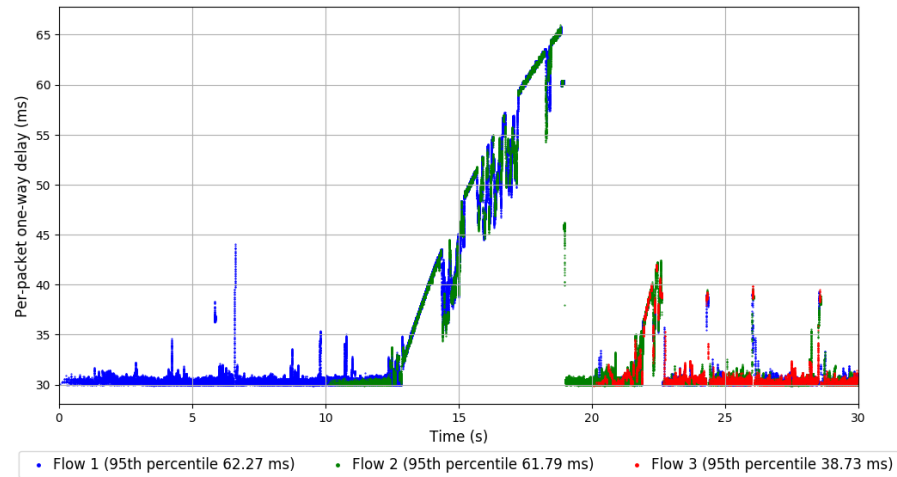
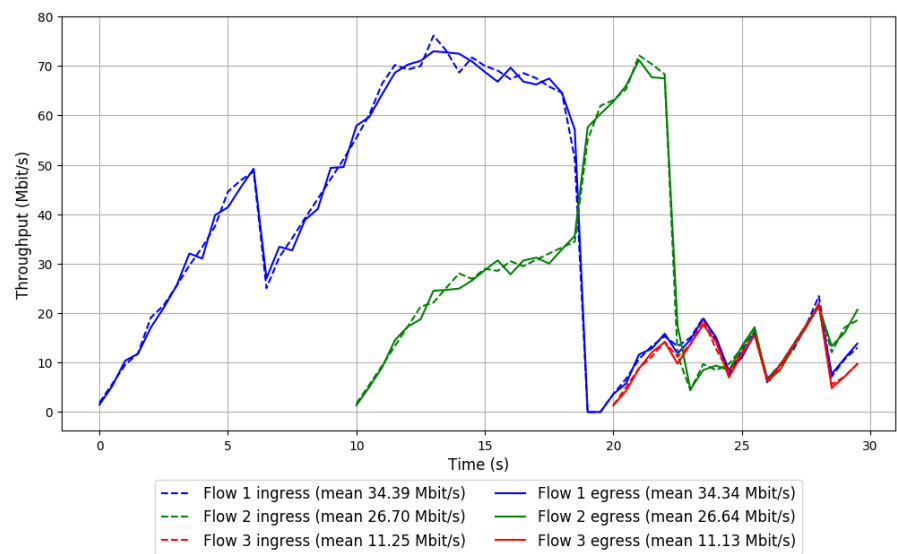


```
Run 1: Statistics of LEDBAT

Start at: 2017-12-11 23:31:03
End at: 2017-12-11 23:31:33
Local clock offset: -0.392 ms
Remote clock offset: 2.395 ms

# Below is generated by plot.py at 2017-12-12 03:39:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 55.75 Mbit/s
95th percentile per-packet one-way delay: 61.850 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 34.34 Mbit/s
95th percentile per-packet one-way delay: 62.272 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 26.64 Mbit/s
95th percentile per-packet one-way delay: 61.788 ms
Loss rate: 0.24%
-- Flow 3:
Average throughput: 11.13 Mbit/s
95th percentile per-packet one-way delay: 38.732 ms
Loss rate: 1.04%
```

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

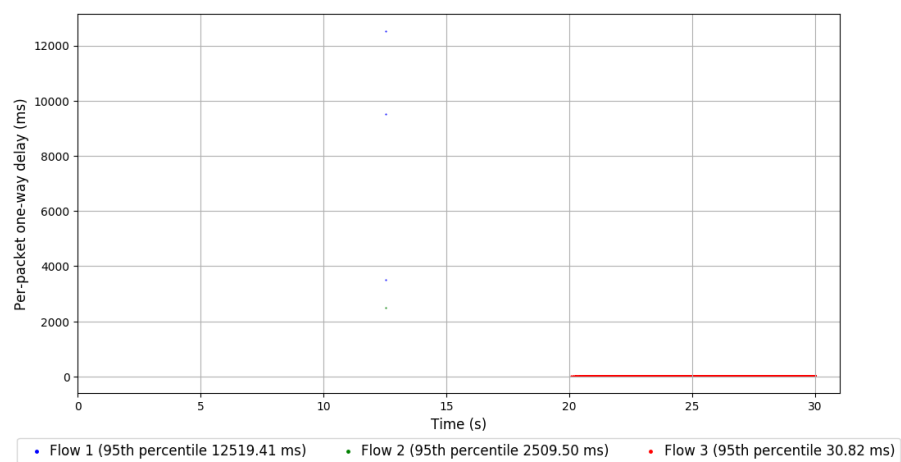
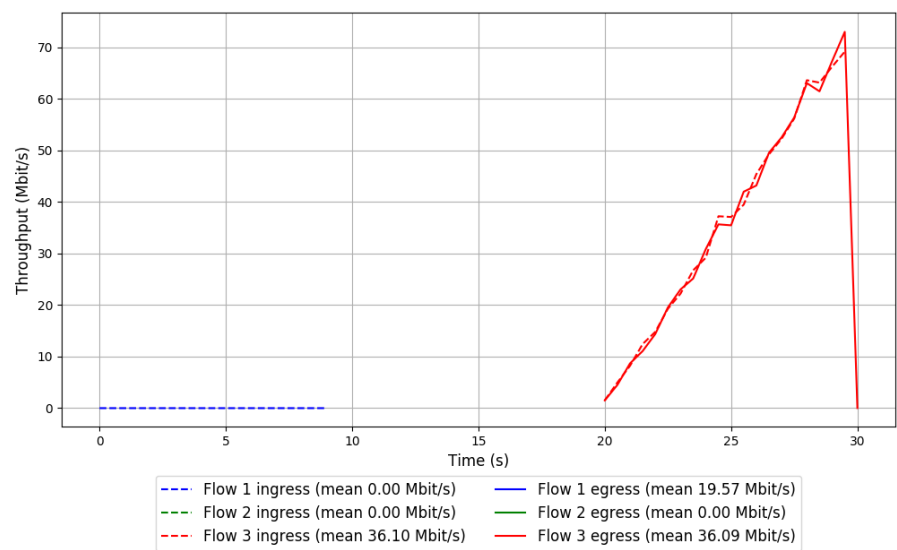
Start at: 2017-12-11 23:53:39

End at: 2017-12-11 23:54:09

Local clock offset: -0.153 ms

Remote clock offset: 2.467 ms

Run 2: Report of LEDBAT — Data Link

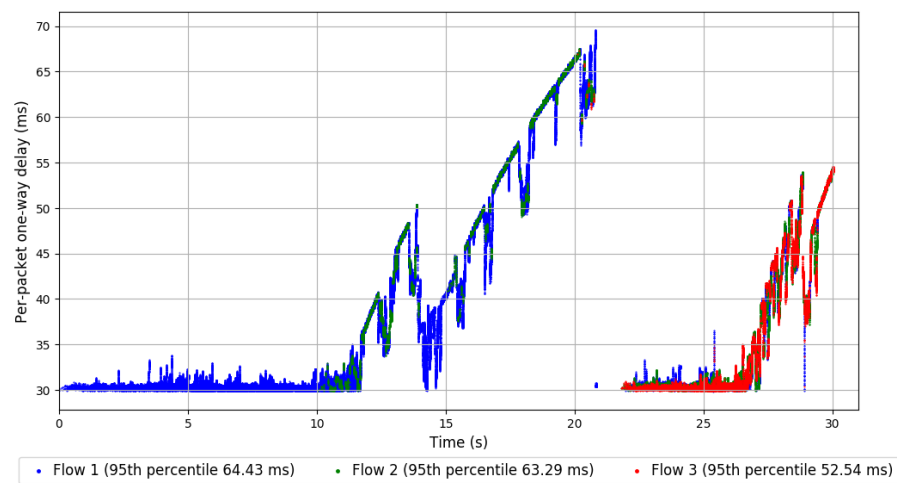
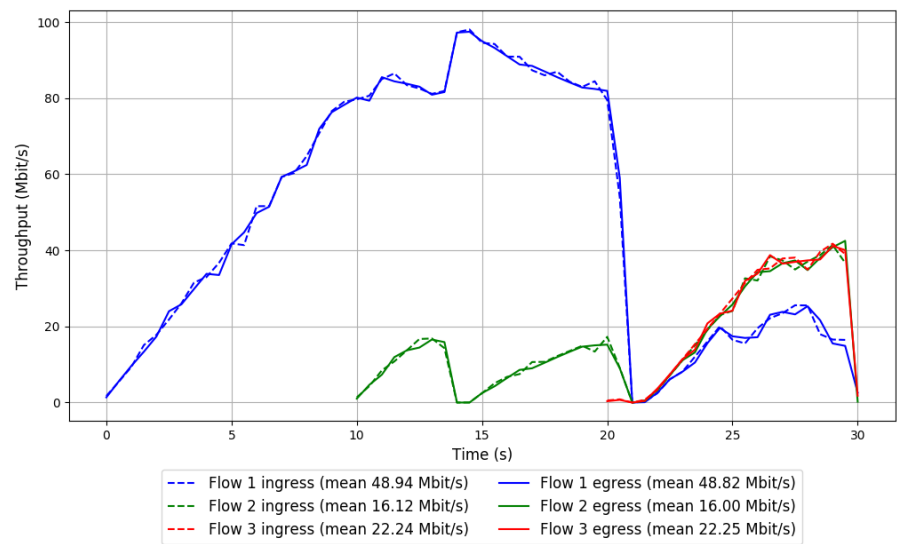


Run 3: Statistics of LEDBAT

Start at: 2017-12-12 00:16:09
End at: 2017-12-12 00:16:39
Local clock offset: -0.548 ms
Remote clock offset: 1.823 ms

Below is generated by plot.py at 2017-12-12 03:39:04
Datalink statistics
-- Total of 3 flows:
Average throughput: 66.83 Mbit/s
95th percentile per-packet one-way delay: 63.802 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 48.82 Mbit/s
95th percentile per-packet one-way delay: 64.429 ms
Loss rate: 0.16%
-- Flow 2:
Average throughput: 16.00 Mbit/s
95th percentile per-packet one-way delay: 63.290 ms
Loss rate: 0.62%
-- Flow 3:
Average throughput: 22.25 Mbit/s
95th percentile per-packet one-way delay: 52.543 ms
Loss rate: 0.07%

Run 3: Report of LEDBAT — Data Link

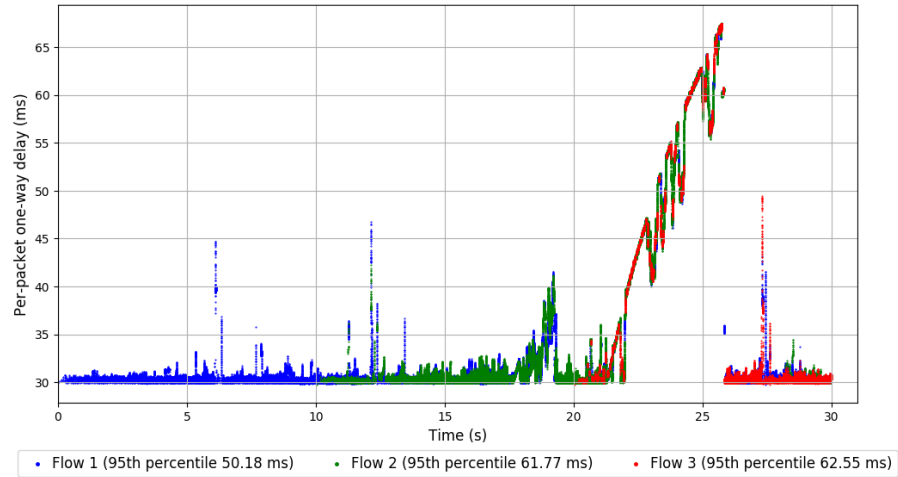
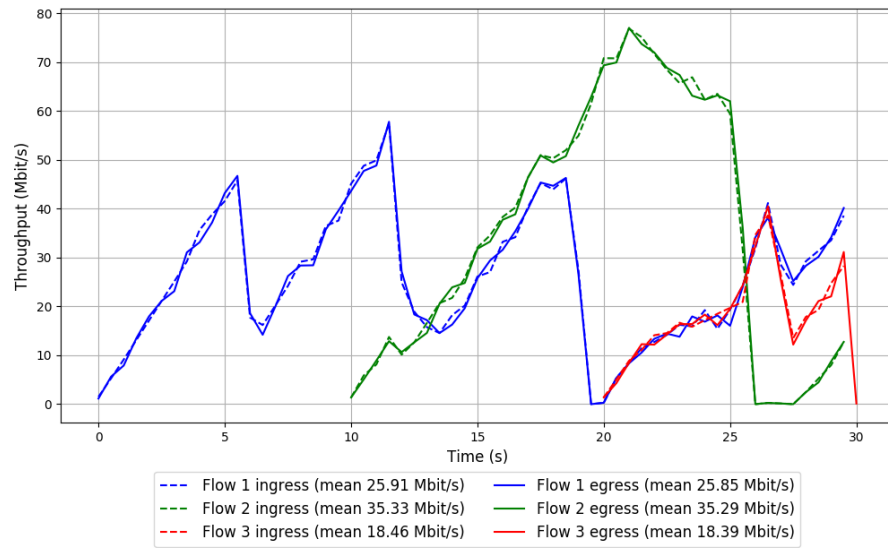


Run 4: Statistics of LEDBAT

Start at: 2017-12-12 00:38:57
End at: 2017-12-12 00:39:27
Local clock offset: -0.732 ms
Remote clock offset: 0.864 ms

```
# Below is generated by plot.py at 2017-12-12 03:39:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 55.44 Mbit/s
95th percentile per-packet one-way delay: 60.757 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 25.85 Mbit/s
95th percentile per-packet one-way delay: 50.178 ms
Loss rate: 0.22%
-- Flow 2:
Average throughput: 35.29 Mbit/s
95th percentile per-packet one-way delay: 61.772 ms
Loss rate: 0.13%
-- Flow 3:
Average throughput: 18.39 Mbit/s
95th percentile per-packet one-way delay: 62.547 ms
Loss rate: 0.40%
```

Run 4: Report of LEDBAT — Data Link

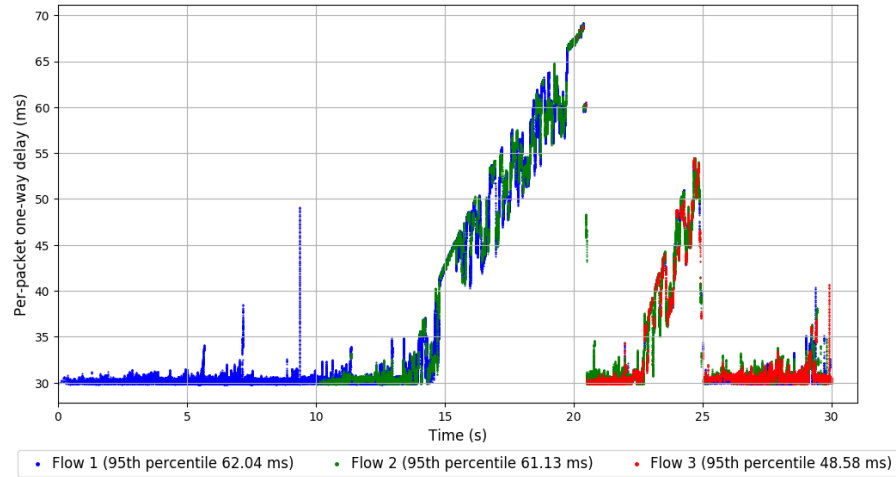
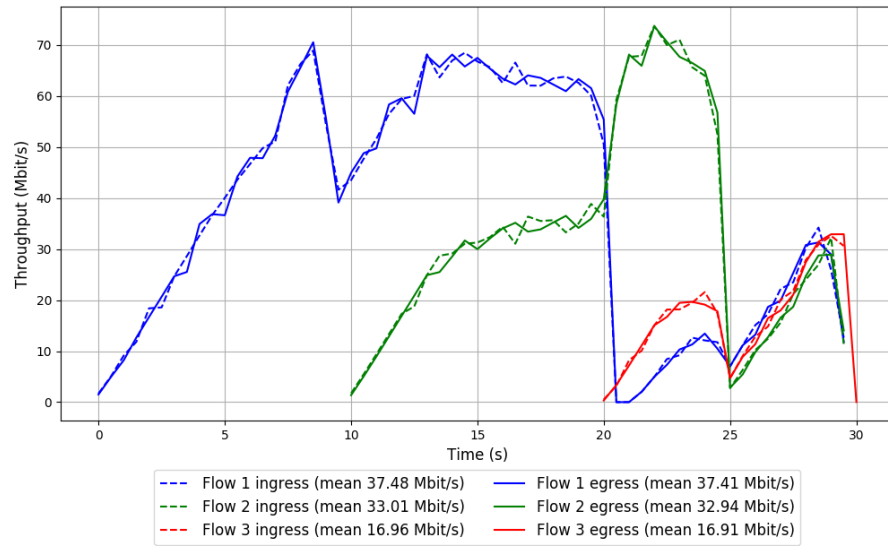


Run 5: Statistics of LEDBAT

Start at: 2017-12-12 01:01:45
End at: 2017-12-12 01:02:15
Local clock offset: -0.343 ms
Remote clock offset: -1.557 ms

Below is generated by plot.py at 2017-12-12 03:39:04
Datalink statistics
-- Total of 3 flows:
Average throughput: 64.86 Mbit/s
95th percentile per-packet one-way delay: 61.093 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 37.41 Mbit/s
95th percentile per-packet one-way delay: 62.040 ms
Loss rate: 0.18%
-- Flow 2:
Average throughput: 32.94 Mbit/s
95th percentile per-packet one-way delay: 61.129 ms
Loss rate: 0.22%
-- Flow 3:
Average throughput: 16.91 Mbit/s
95th percentile per-packet one-way delay: 48.579 ms
Loss rate: 0.64%

Run 5: Report of LEDBAT — Data Link

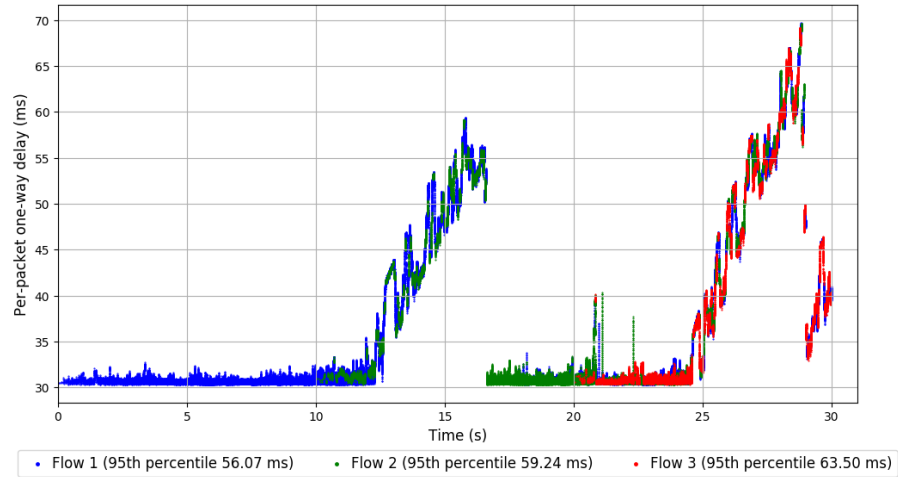
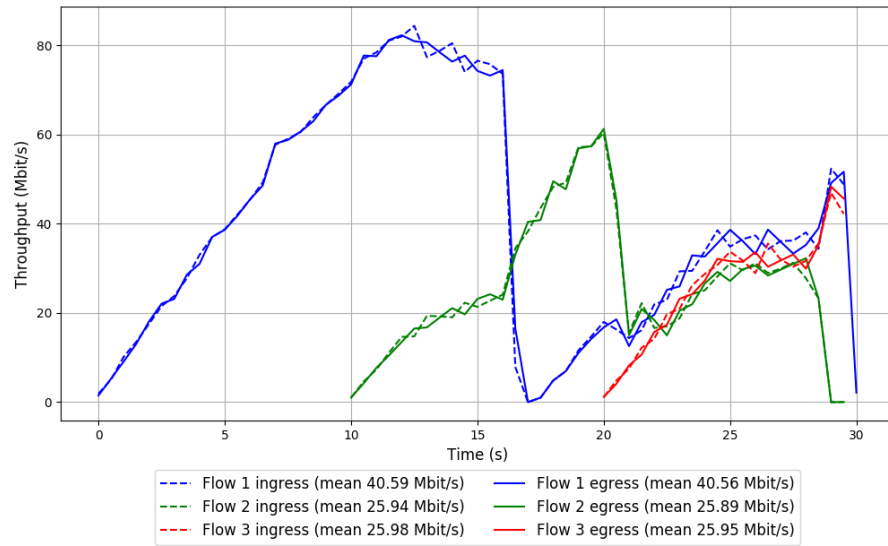


Run 6: Statistics of LEDBAT

Start at: 2017-12-12 01:26:32
End at: 2017-12-12 01:27:02
Local clock offset: 0.058 ms
Remote clock offset: -2.838 ms

Below is generated by plot.py at 2017-12-12 03:39:29
Datalink statistics
-- Total of 3 flows:
Average throughput: 66.38 Mbit/s
95th percentile per-packet one-way delay: 58.095 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 40.56 Mbit/s
95th percentile per-packet one-way delay: 56.068 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 25.89 Mbit/s
95th percentile per-packet one-way delay: 59.238 ms
Loss rate: 0.17%
-- Flow 3:
Average throughput: 25.95 Mbit/s
95th percentile per-packet one-way delay: 63.504 ms
Loss rate: 0.00%

Run 6: Report of LEDBAT — Data Link

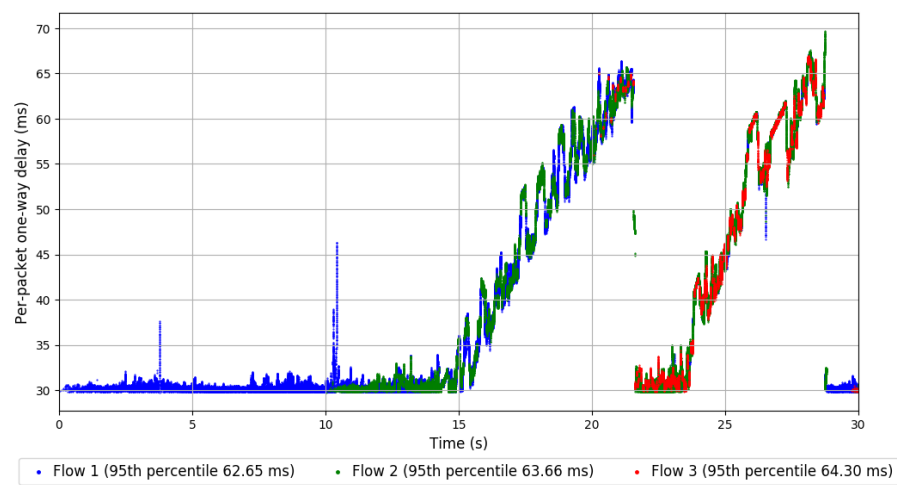
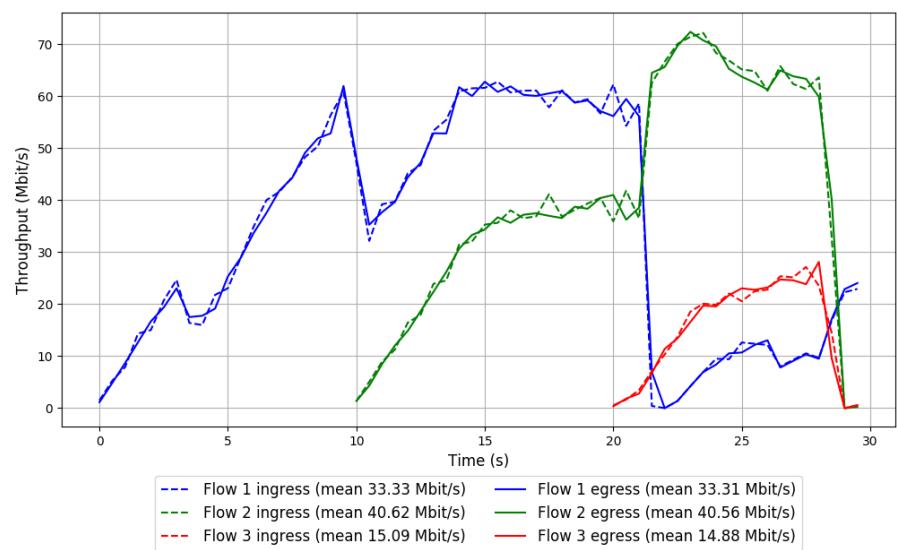


Run 7: Statistics of LEDBAT

Start at: 2017-12-12 01:51:44
End at: 2017-12-12 01:52:14
Local clock offset: 0.48 ms
Remote clock offset: -3.718 ms

Below is generated by plot.py at 2017-12-12 03:39:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 65.22 Mbit/s
95th percentile per-packet one-way delay: 63.378 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 33.31 Mbit/s
95th percentile per-packet one-way delay: 62.651 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 40.56 Mbit/s
95th percentile per-packet one-way delay: 63.660 ms
Loss rate: 0.15%
-- Flow 3:
Average throughput: 14.88 Mbit/s
95th percentile per-packet one-way delay: 64.303 ms
Loss rate: 1.63%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2017-12-12 02:17:05

End at: 2017-12-12 02:17:35

Local clock offset: 0.982 ms

Remote clock offset: -4.89 ms

Below is generated by plot.py at 2017-12-12 03:39:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 53.00 Mbit/s

95th percentile per-packet one-way delay: 51.476 ms

Loss rate: 0.19%

-- Flow 1:

Average throughput: 30.82 Mbit/s

95th percentile per-packet one-way delay: 47.617 ms

Loss rate: 0.16%

-- Flow 2:

Average throughput: 21.75 Mbit/s

95th percentile per-packet one-way delay: 51.714 ms

Loss rate: 0.23%

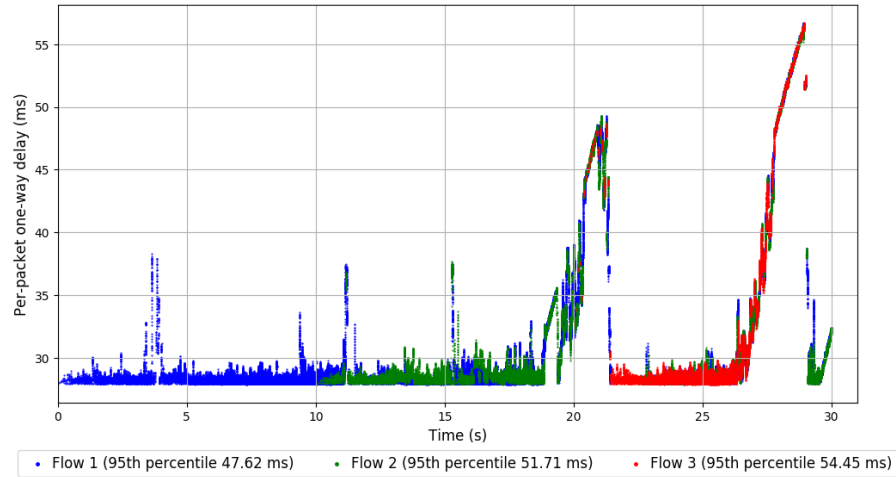
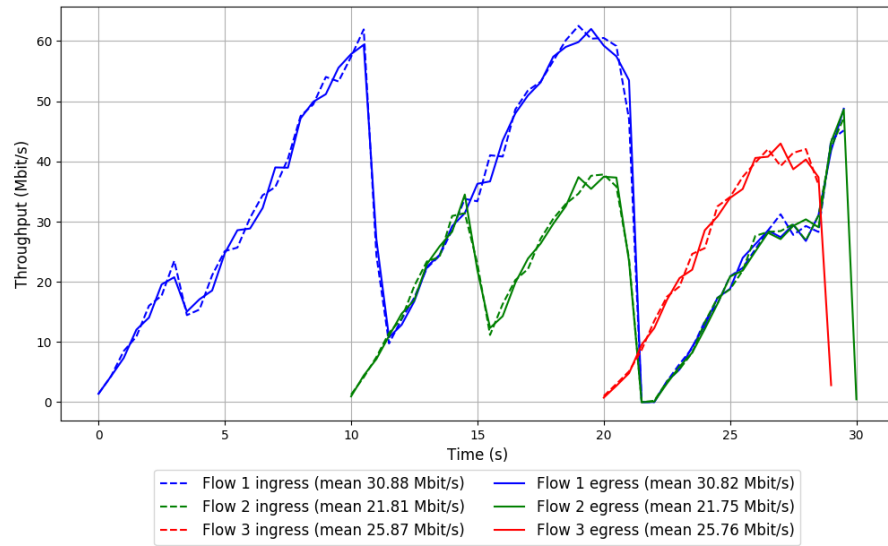
-- Flow 3:

Average throughput: 25.76 Mbit/s

95th percentile per-packet one-way delay: 54.451 ms

Loss rate: 0.21%

Run 8: Report of LEDBAT — Data Link

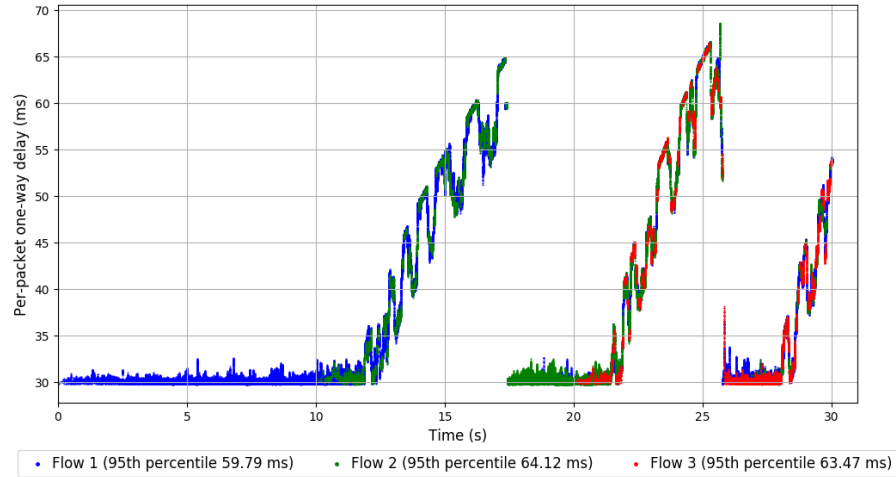
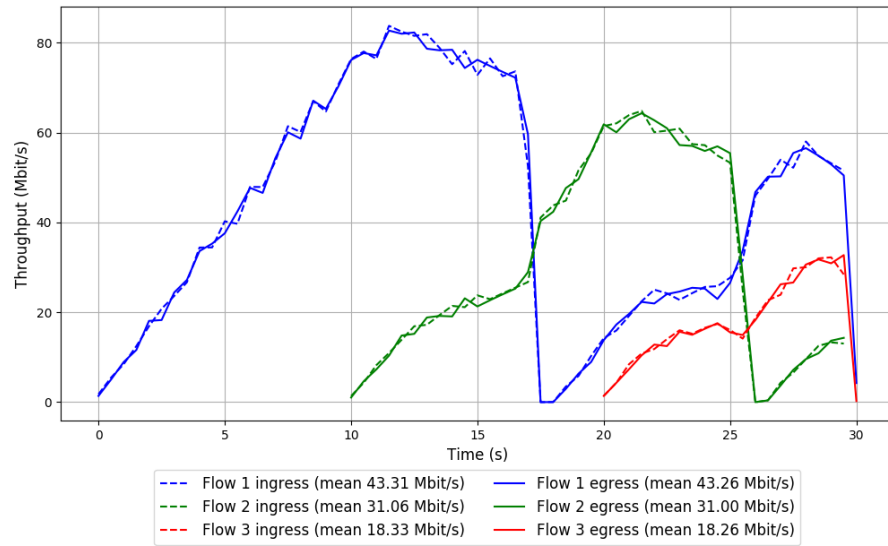


Run 9: Statistics of LEDBAT

Start at: 2017-12-12 02:41:21
End at: 2017-12-12 02:41:51
Local clock offset: 1.335 ms
Remote clock offset: -2.327 ms

Below is generated by plot.py at 2017-12-12 03:39:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 69.89 Mbit/s
95th percentile per-packet one-way delay: 62.178 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 43.26 Mbit/s
95th percentile per-packet one-way delay: 59.786 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 31.00 Mbit/s
95th percentile per-packet one-way delay: 64.124 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 18.26 Mbit/s
95th percentile per-packet one-way delay: 63.471 ms
Loss rate: 0.16%

Run 9: Report of LEDBAT — Data Link

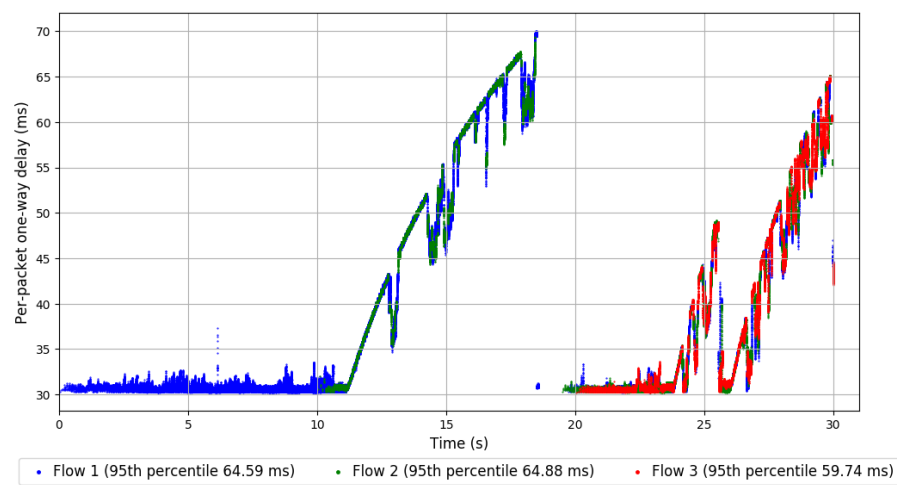
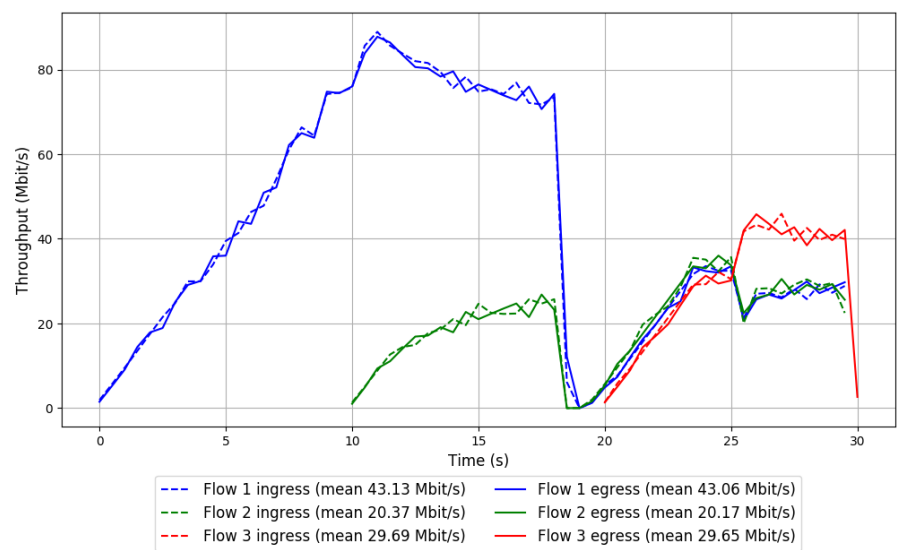


Run 10: Statistics of LEDBAT

Start at: 2017-12-12 03:06:26
End at: 2017-12-12 03:06:56
Local clock offset: 1.483 ms
Remote clock offset: -1.687 ms

Below is generated by plot.py at 2017-12-12 03:39:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 66.28 Mbit/s
95th percentile per-packet one-way delay: 64.352 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 43.06 Mbit/s
95th percentile per-packet one-way delay: 64.595 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 20.17 Mbit/s
95th percentile per-packet one-way delay: 64.875 ms
Loss rate: 0.84%
-- Flow 3:
Average throughput: 29.65 Mbit/s
95th percentile per-packet one-way delay: 59.740 ms
Loss rate: 0.01%

Run 10: Report of LEDBAT — Data Link

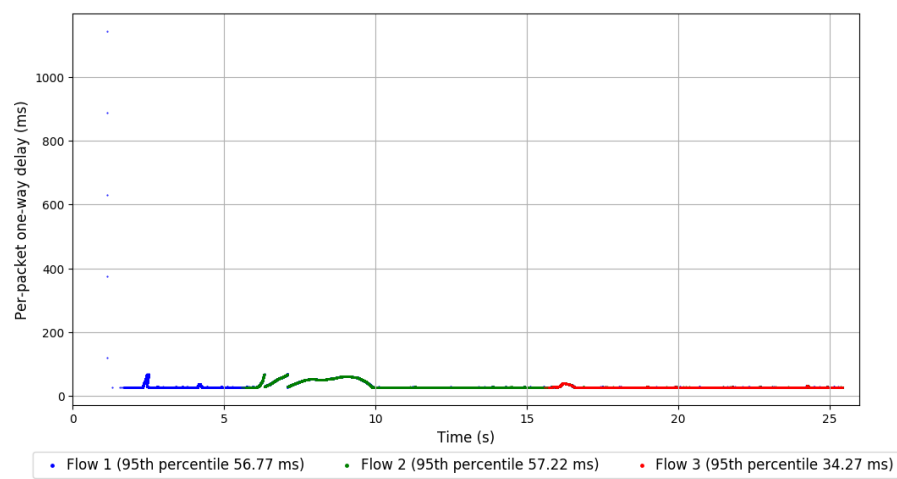
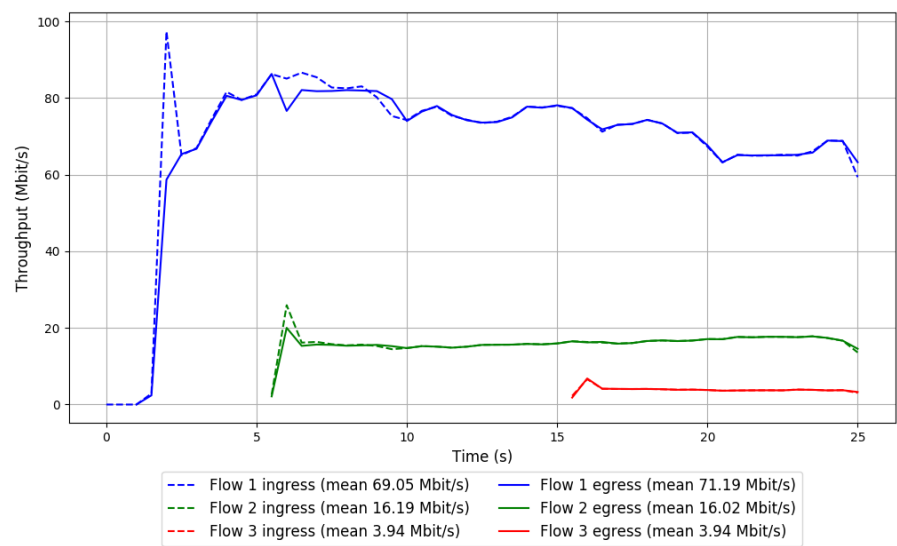


```
Run 1: Statistics of PCC

Start at: 2017-12-11 23:37:19
End at: 2017-12-11 23:37:49
Local clock offset: -0.283 ms
Remote clock offset: 0.339 ms

# Below is generated by plot.py at 2017-12-12 03:39:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.87 Mbit/s
95th percentile per-packet one-way delay: 56.619 ms
Loss rate: 1.33%
-- Flow 1:
Average throughput: 71.19 Mbit/s
95th percentile per-packet one-way delay: 56.772 ms
Loss rate: 1.42%
-- Flow 2:
Average throughput: 16.02 Mbit/s
95th percentile per-packet one-way delay: 57.218 ms
Loss rate: 1.01%
-- Flow 3:
Average throughput: 3.94 Mbit/s
95th percentile per-packet one-way delay: 34.266 ms
Loss rate: 0.00%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2017-12-12 00:00:23

End at: 2017-12-12 00:00:53

Local clock offset: -0.204 ms

Remote clock offset: 0.297 ms

Below is generated by plot.py at 2017-12-12 03:39:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 16.32 Mbit/s

95th percentile per-packet one-way delay: 28.151 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 2.66 Mbit/s

95th percentile per-packet one-way delay: 28.102 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 4.79 Mbit/s

95th percentile per-packet one-way delay: 28.110 ms

Loss rate: 0.08%

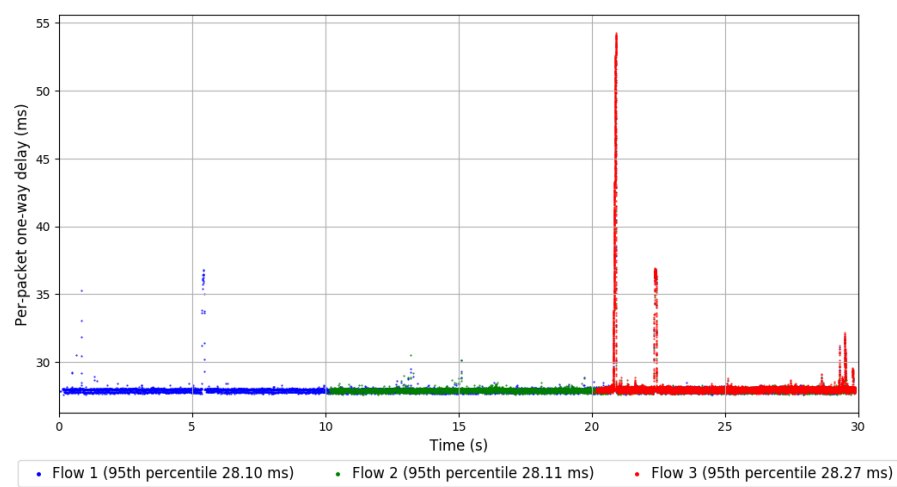
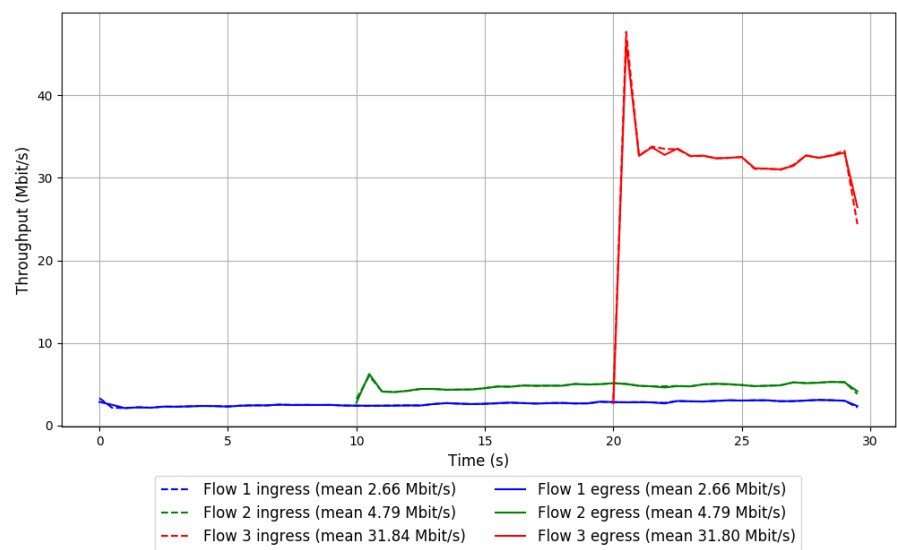
-- Flow 3:

Average throughput: 31.80 Mbit/s

95th percentile per-packet one-way delay: 28.270 ms

Loss rate: 0.11%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2017-12-12 00:22:46

End at: 2017-12-12 00:23:16

Local clock offset: -0.678 ms

Remote clock offset: 1.584 ms

Below is generated by plot.py at 2017-12-12 03:40:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 58.14 Mbit/s

95th percentile per-packet one-way delay: 54.033 ms

Loss rate: 1.63%

-- Flow 1:

Average throughput: 11.73 Mbit/s

95th percentile per-packet one-way delay: 52.052 ms

Loss rate: 0.56%

-- Flow 2:

Average throughput: 61.09 Mbit/s

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

Loss rate: 1.94%

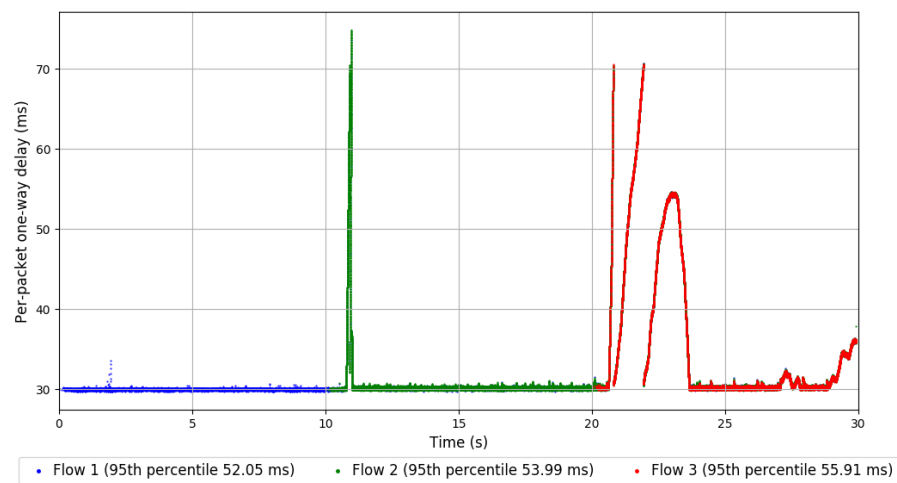
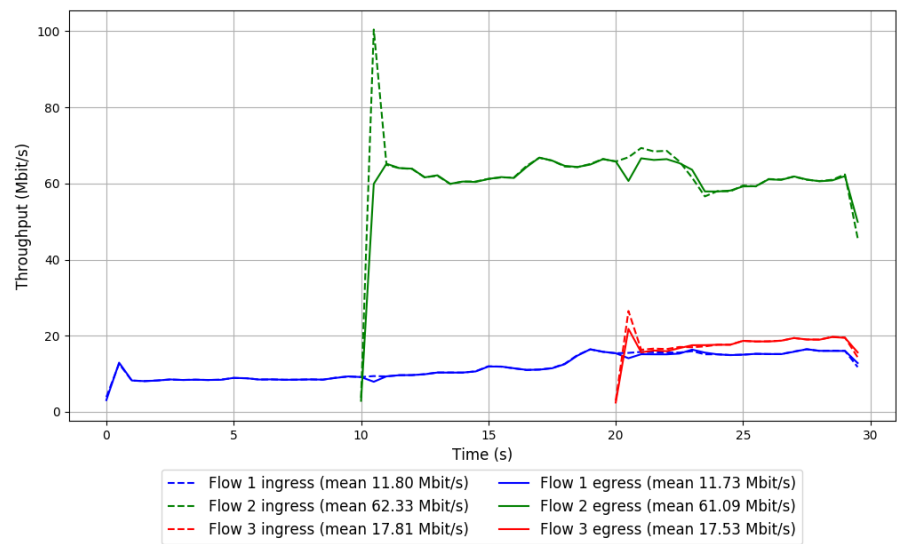
-- Flow 3:

Average throughput: 17.53 Mbit/s

95th percentile per-packet one-way delay: 55.907 ms

Loss rate: 1.52%

Run 3: Report of PCC — Data Link

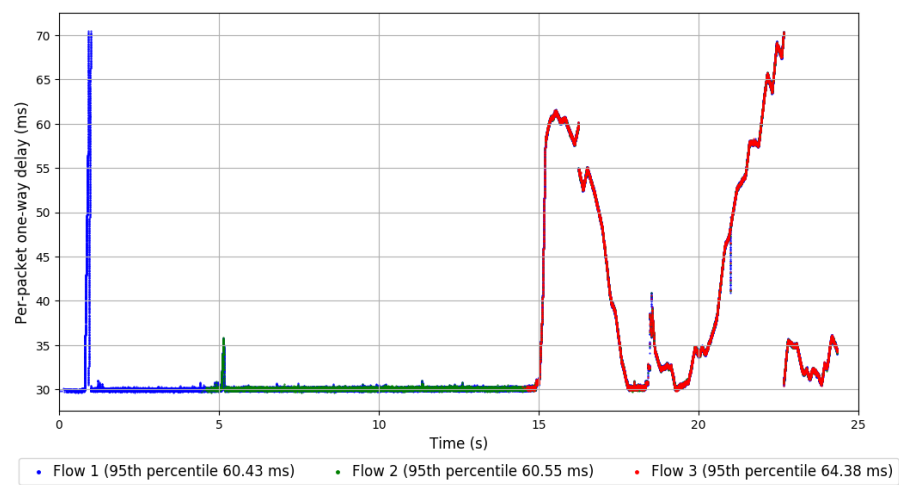
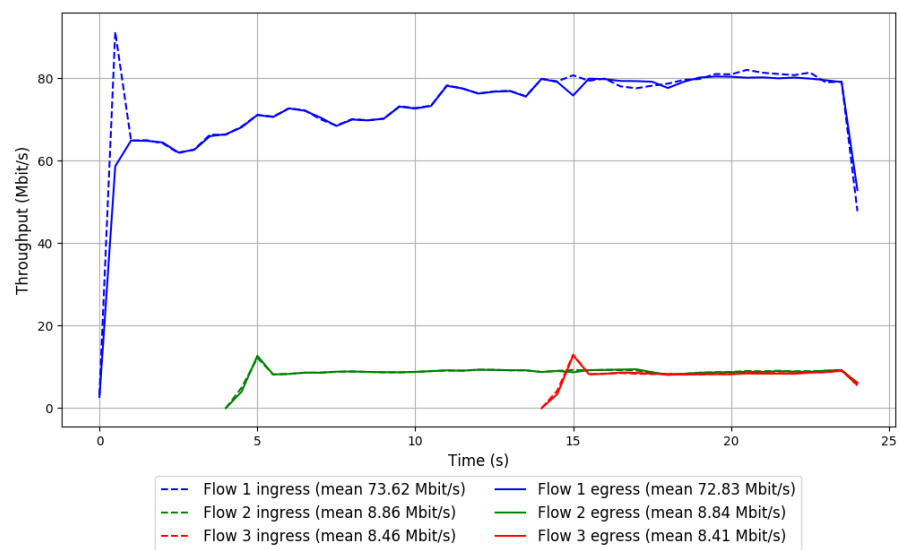


Run 4: Statistics of PCC

Start at: 2017-12-12 00:45:34
End at: 2017-12-12 00:46:04
Local clock offset: -0.634 ms
Remote clock offset: 0.043 ms

```
# Below is generated by plot.py at 2017-12-12 03:40:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 83.46 Mbit/s
95th percentile per-packet one-way delay: 60.523 ms
Loss rate: 0.96%
-- Flow 1:
Average throughput: 72.83 Mbit/s
95th percentile per-packet one-way delay: 60.426 ms
Loss rate: 1.05%
-- Flow 2:
Average throughput: 8.84 Mbit/s
95th percentile per-packet one-way delay: 60.551 ms
Loss rate: 0.27%
-- Flow 3:
Average throughput: 8.41 Mbit/s
95th percentile per-packet one-way delay: 64.379 ms
Loss rate: 0.57%
```

Run 4: Report of PCC — Data Link

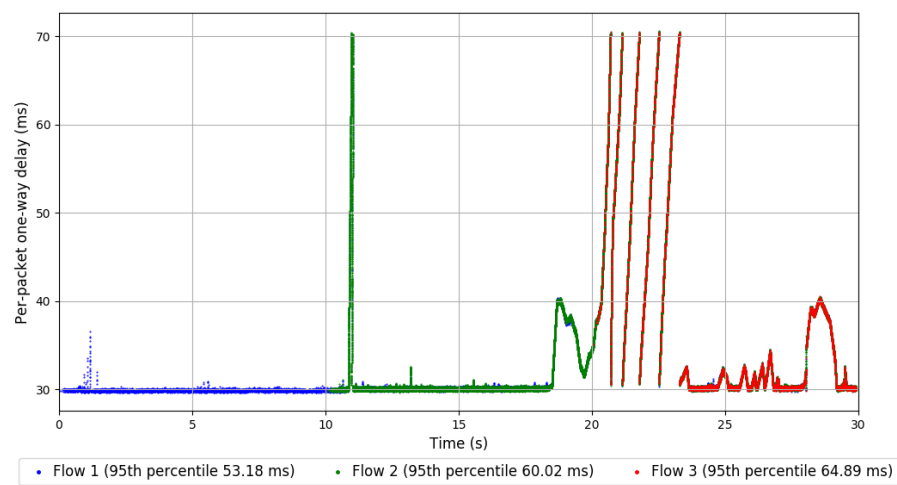
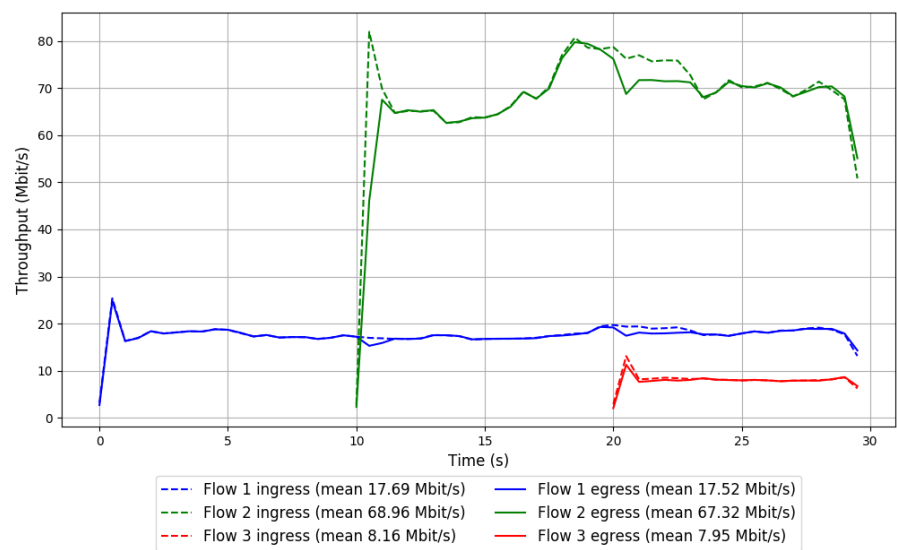


Run 5: Statistics of PCC

Start at: 2017-12-12 01:09:13
End at: 2017-12-12 01:09:43
Local clock offset: -0.176 ms
Remote clock offset: -2.191 ms

Below is generated by plot.py at 2017-12-12 03:40:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 64.89 Mbit/s
95th percentile per-packet one-way delay: 59.196 ms
Loss rate: 2.02%
-- Flow 1:
Average throughput: 17.52 Mbit/s
95th percentile per-packet one-way delay: 53.183 ms
Loss rate: 0.98%
-- Flow 2:
Average throughput: 67.32 Mbit/s
95th percentile per-packet one-way delay: 60.018 ms
Loss rate: 2.38%
-- Flow 3:
Average throughput: 7.95 Mbit/s
95th percentile per-packet one-way delay: 64.894 ms
Loss rate: 2.67%

Run 5: Report of PCC — Data Link

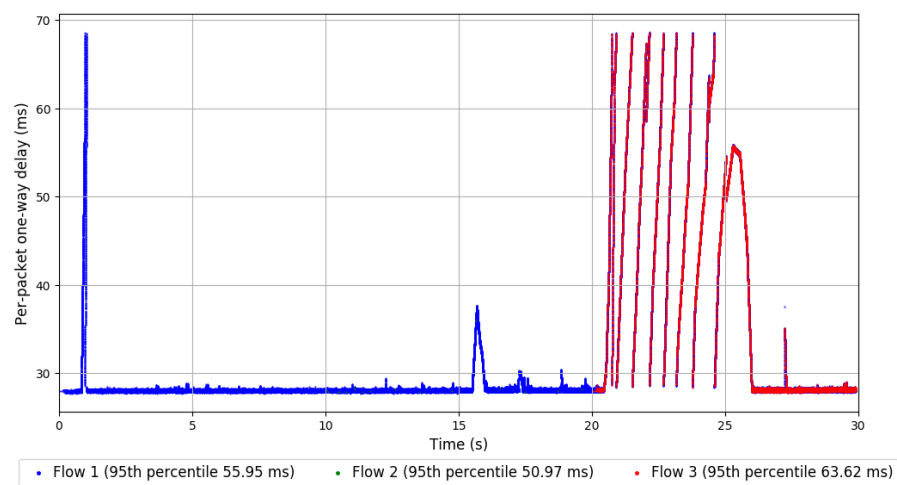
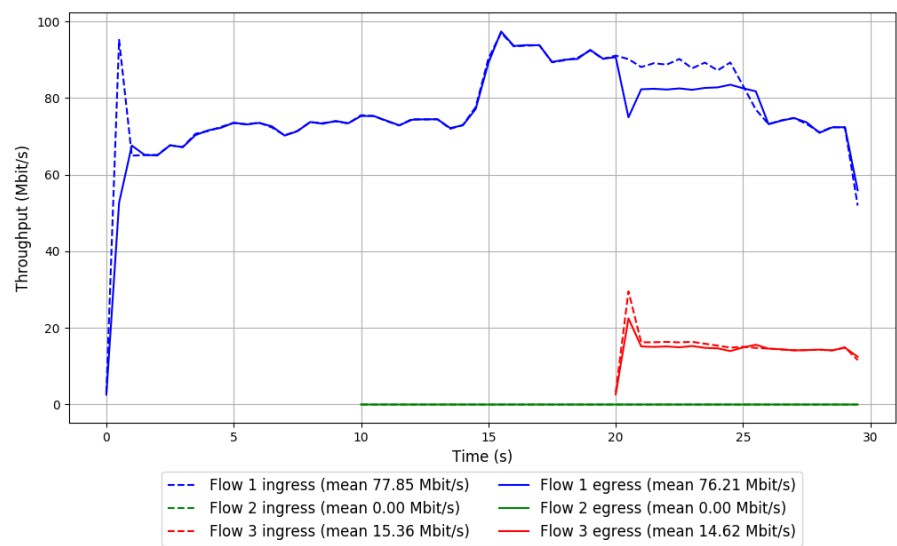


Run 6: Statistics of PCC

Start at: 2017-12-12 01:33:59
End at: 2017-12-12 01:34:29
Local clock offset: 0.047 ms
Remote clock offset: -5.788 ms

Below is generated by plot.py at 2017-12-12 03:40:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 81.03 Mbit/s
95th percentile per-packet one-way delay: 57.444 ms
Loss rate: 2.28%
-- Flow 1:
Average throughput: 76.21 Mbit/s
95th percentile per-packet one-way delay: 55.947 ms
Loss rate: 2.11%
-- Flow 2:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 50.970 ms
Loss rate: 3.78%
-- Flow 3:
Average throughput: 14.62 Mbit/s
95th percentile per-packet one-way delay: 63.622 ms
Loss rate: 4.84%

Run 6: Report of PCC — Data Link

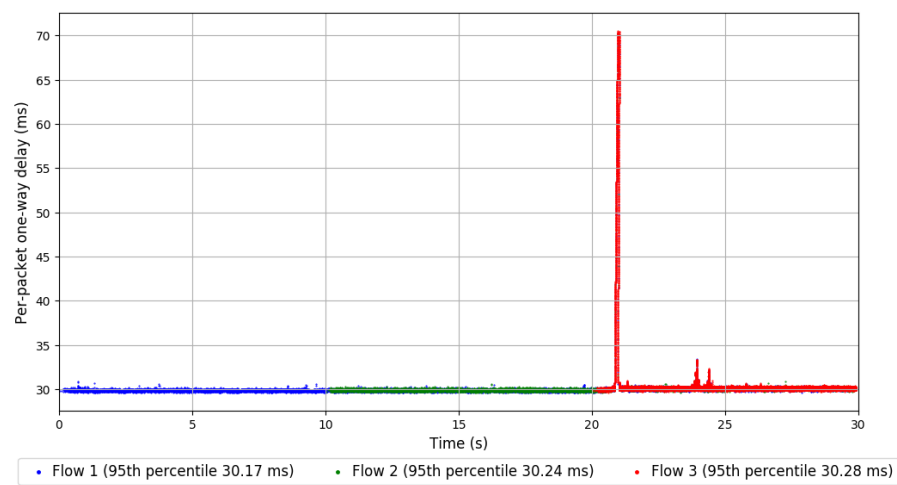
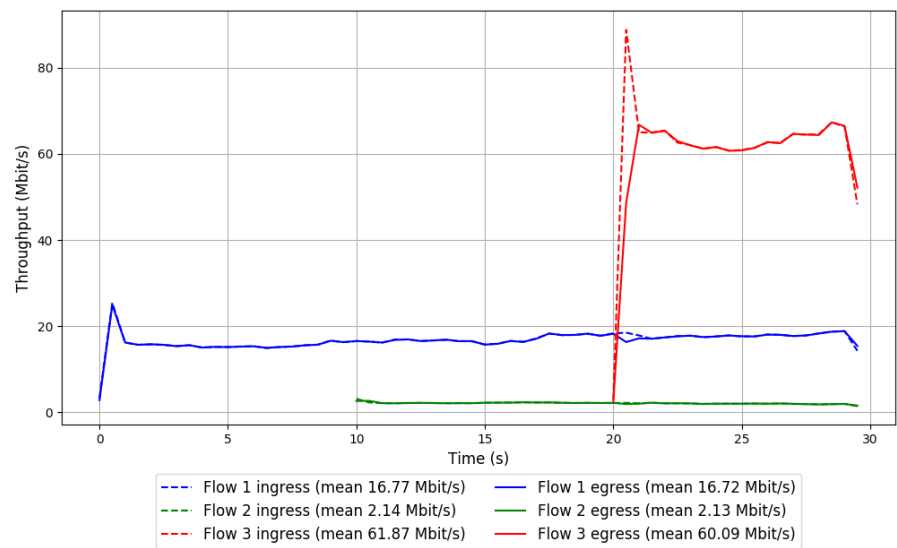


Run 7: Statistics of PCC

Start at: 2017-12-12 01:59:05
End at: 2017-12-12 01:59:35
Local clock offset: 0.676 ms
Remote clock offset: -3.542 ms

Below is generated by plot.py at 2017-12-12 03:40:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 37.95 Mbit/s
95th percentile per-packet one-way delay: 30.235 ms
Loss rate: 1.66%
-- Flow 1:
Average throughput: 16.72 Mbit/s
95th percentile per-packet one-way delay: 30.168 ms
Loss rate: 0.30%
-- Flow 2:
Average throughput: 2.13 Mbit/s
95th percentile per-packet one-way delay: 30.242 ms
Loss rate: 0.43%
-- Flow 3:
Average throughput: 60.09 Mbit/s
95th percentile per-packet one-way delay: 30.281 ms
Loss rate: 2.87%

Run 7: Report of PCC — Data Link

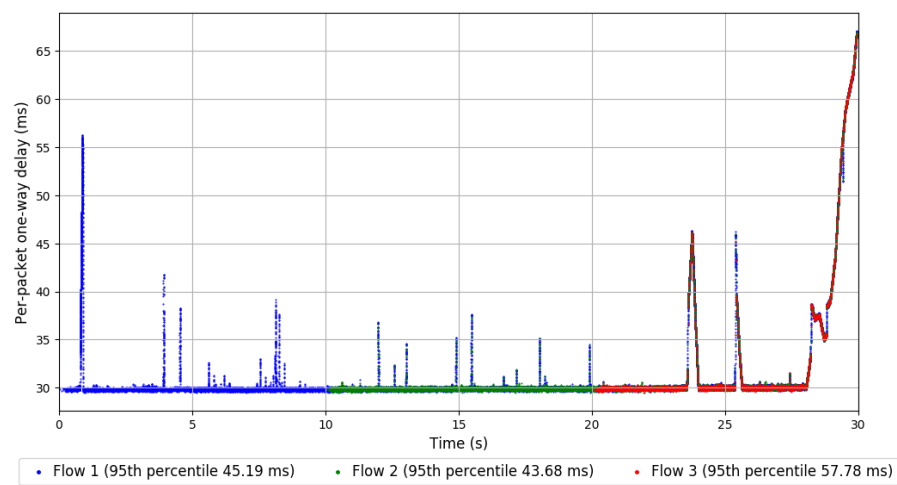
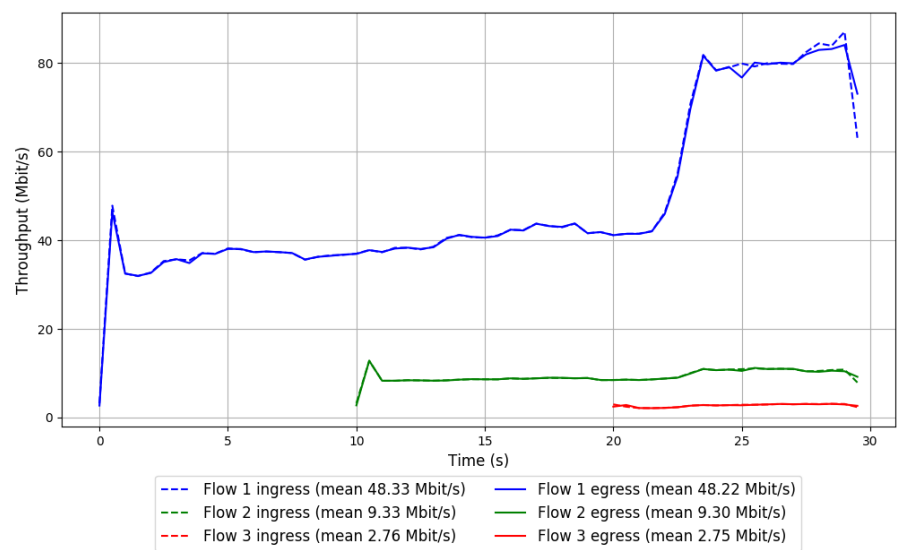


Run 8: Statistics of PCC

Start at: 2017-12-12 02:24:22
End at: 2017-12-12 02:24:52
Local clock offset: 1.119 ms
Remote clock offset: -2.746 ms

Below is generated by plot.py at 2017-12-12 03:40:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 55.31 Mbit/s
95th percentile per-packet one-way delay: 45.247 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 48.22 Mbit/s
95th percentile per-packet one-way delay: 45.194 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 9.30 Mbit/s
95th percentile per-packet one-way delay: 43.679 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 2.75 Mbit/s
95th percentile per-packet one-way delay: 57.776 ms
Loss rate: 0.27%

Run 8: Report of PCC — Data Link

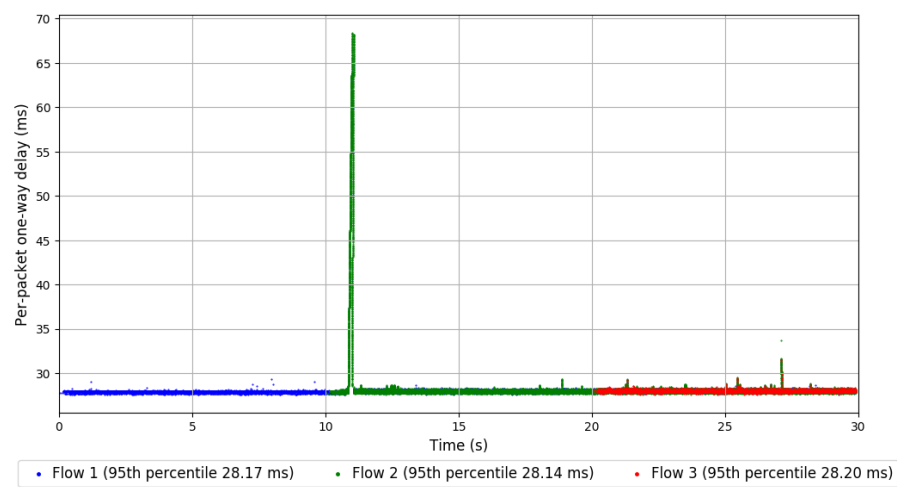
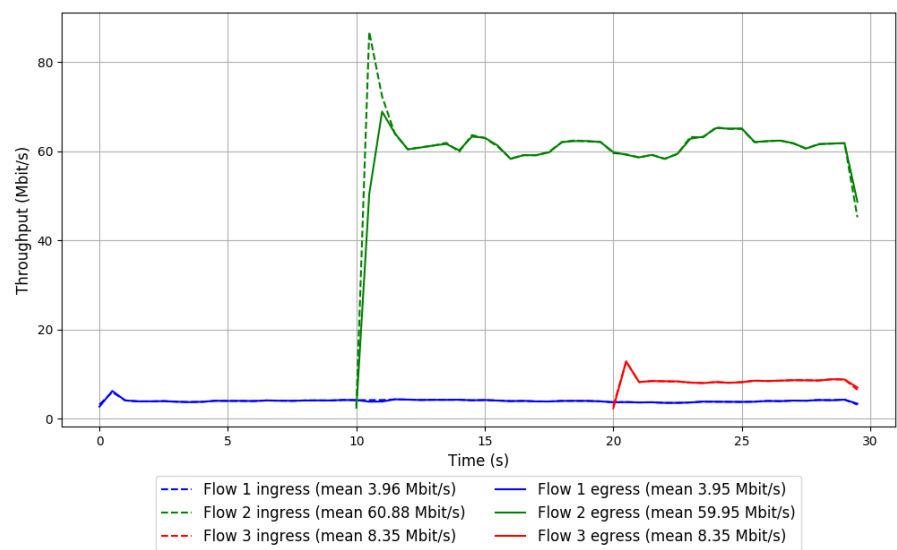


Run 9: Statistics of PCC

Start at: 2017-12-12 02:48:50
End at: 2017-12-12 02:49:20
Local clock offset: 1.313 ms
Remote clock offset: -4.406 ms

Below is generated by plot.py at 2017-12-12 03:40:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 46.56 Mbit/s
95th percentile per-packet one-way delay: 28.151 ms
Loss rate: 1.34%
-- Flow 1:
Average throughput: 3.95 Mbit/s
95th percentile per-packet one-way delay: 28.174 ms
Loss rate: 0.30%
-- Flow 2:
Average throughput: 59.95 Mbit/s
95th percentile per-packet one-way delay: 28.138 ms
Loss rate: 1.53%
-- Flow 3:
Average throughput: 8.35 Mbit/s
95th percentile per-packet one-way delay: 28.199 ms
Loss rate: 0.00%

Run 9: Report of PCC — Data Link

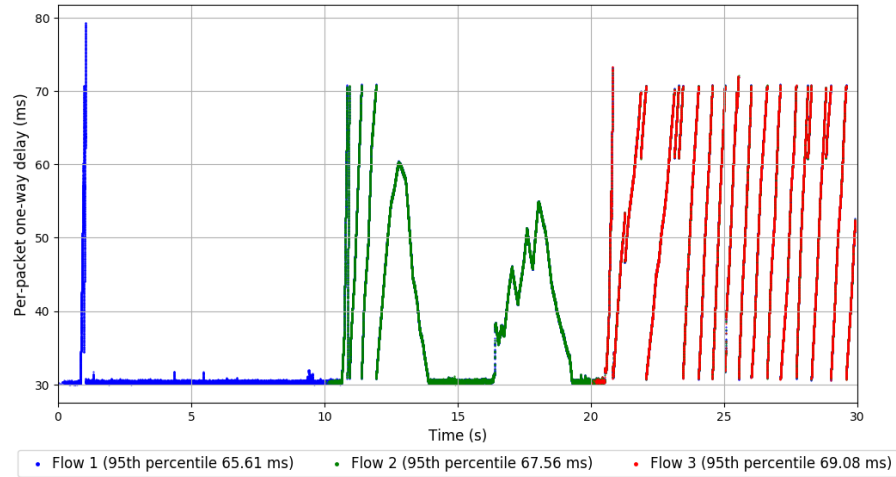
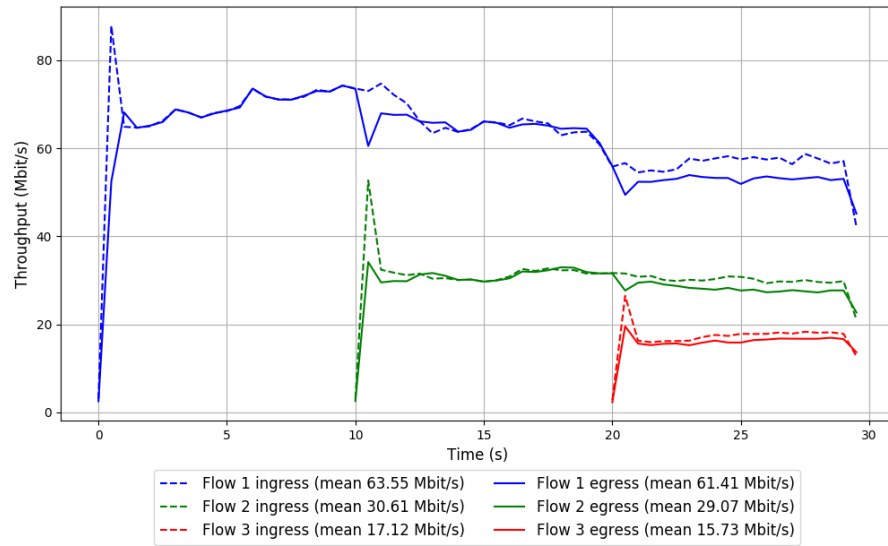


Run 10: Statistics of PCC

Start at: 2017-12-12 03:13:11
End at: 2017-12-12 03:13:41
Local clock offset: 1.487 ms
Remote clock offset: -1.681 ms

Below is generated by plot.py at 2017-12-12 03:41:15
Datalink statistics
-- Total of 3 flows:
Average throughput: 85.93 Mbit/s
95th percentile per-packet one-way delay: 66.676 ms
Loss rate: 3.97%
-- Flow 1:
Average throughput: 61.41 Mbit/s
95th percentile per-packet one-way delay: 65.609 ms
Loss rate: 3.30%
-- Flow 2:
Average throughput: 29.07 Mbit/s
95th percentile per-packet one-way delay: 67.560 ms
Loss rate: 4.94%
-- Flow 3:
Average throughput: 15.73 Mbit/s
95th percentile per-packet one-way delay: 69.081 ms
Loss rate: 7.91%

Run 10: Report of PCC — Data Link

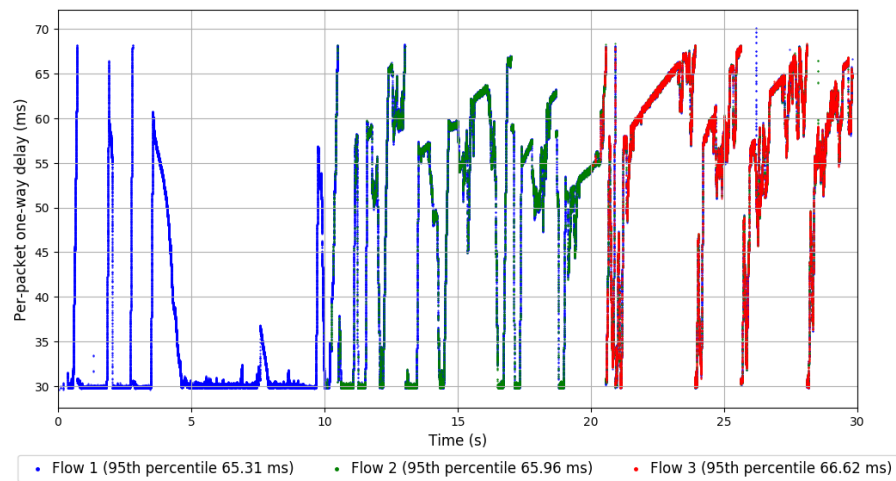
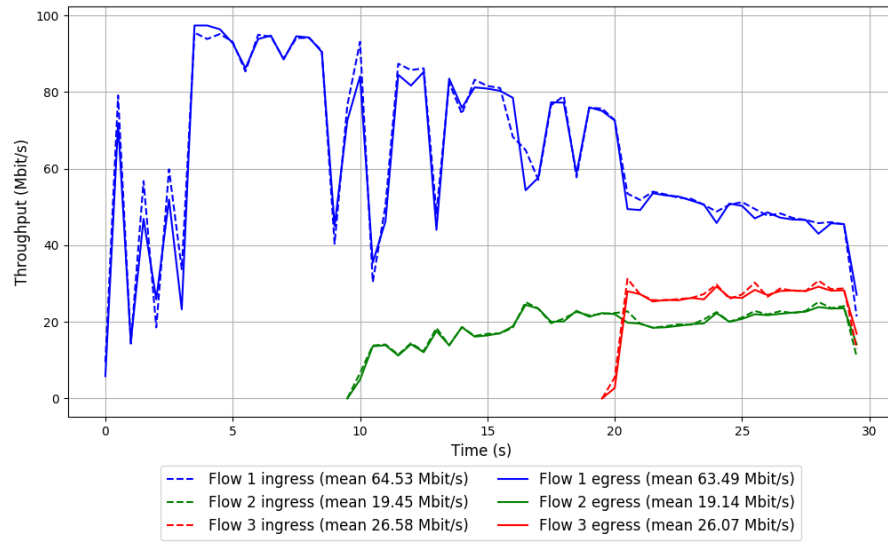


```
Run 1: Statistics of QUIC Cubic

Start at: 2017-12-11 23:38:52
End at: 2017-12-11 23:39:22
Local clock offset: -0.283 ms
Remote clock offset: 2.402 ms

# Below is generated by plot.py at 2017-12-12 03:41:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 84.82 Mbit/s
95th percentile per-packet one-way delay: 65.672 ms
Loss rate: 1.51%
-- Flow 1:
Average throughput: 63.49 Mbit/s
95th percentile per-packet one-way delay: 65.305 ms
Loss rate: 1.49%
-- Flow 2:
Average throughput: 19.14 Mbit/s
95th percentile per-packet one-way delay: 65.963 ms
Loss rate: 1.43%
-- Flow 3:
Average throughput: 26.07 Mbit/s
95th percentile per-packet one-way delay: 66.622 ms
Loss rate: 1.81%
```

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2017-12-12 00:01:45

End at: 2017-12-12 00:02:15

Local clock offset: -0.202 ms

Remote clock offset: 2.377 ms

Below is generated by plot.py at 2017-12-12 03:41:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 74.74 Mbit/s

95th percentile per-packet one-way delay: 65.213 ms

Loss rate: 0.62%

-- Flow 1:

Average throughput: 35.41 Mbit/s

95th percentile per-packet one-way delay: 64.660 ms

Loss rate: 0.48%

-- Flow 2:

Average throughput: 52.69 Mbit/s

95th percentile per-packet one-way delay: 65.624 ms

Loss rate: 0.76%

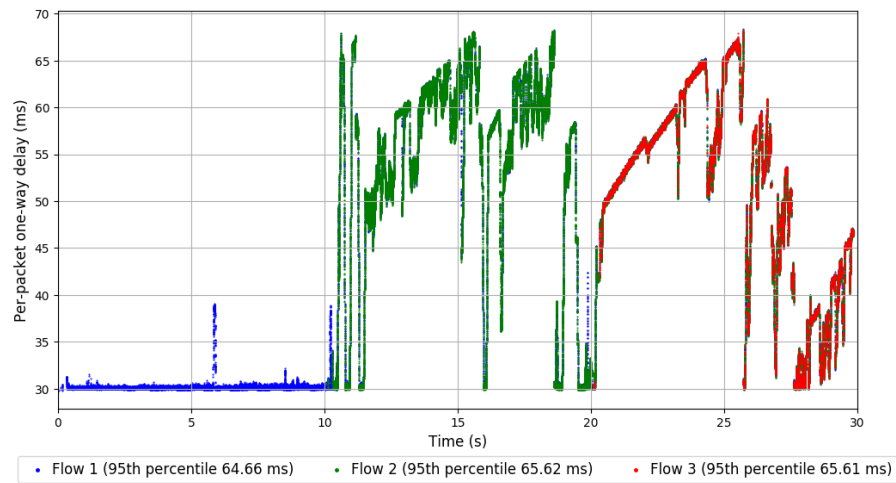
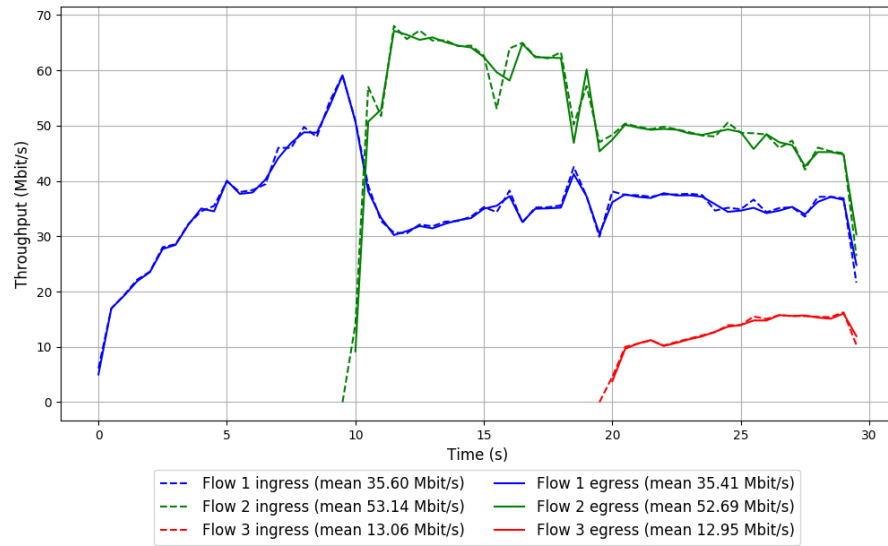
-- Flow 3:

Average throughput: 12.95 Mbit/s

95th percentile per-packet one-way delay: 65.607 ms

Loss rate: 0.67%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2017-12-12 00:24:19

End at: 2017-12-12 00:24:49

Local clock offset: -0.63 ms

Remote clock offset: 1.418 ms

Below is generated by plot.py at 2017-12-12 03:41:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.46 Mbit/s

95th percentile per-packet one-way delay: 64.090 ms

Loss rate: 1.20%

-- Flow 1:

Average throughput: 54.70 Mbit/s

95th percentile per-packet one-way delay: 63.365 ms

Loss rate: 1.34%

-- Flow 2:

Average throughput: 37.10 Mbit/s

95th percentile per-packet one-way delay: 65.006 ms

Loss rate: 0.93%

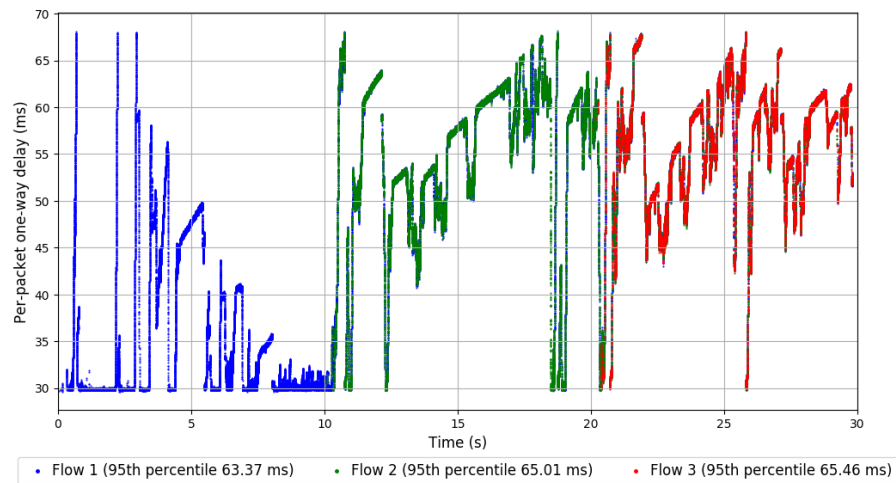
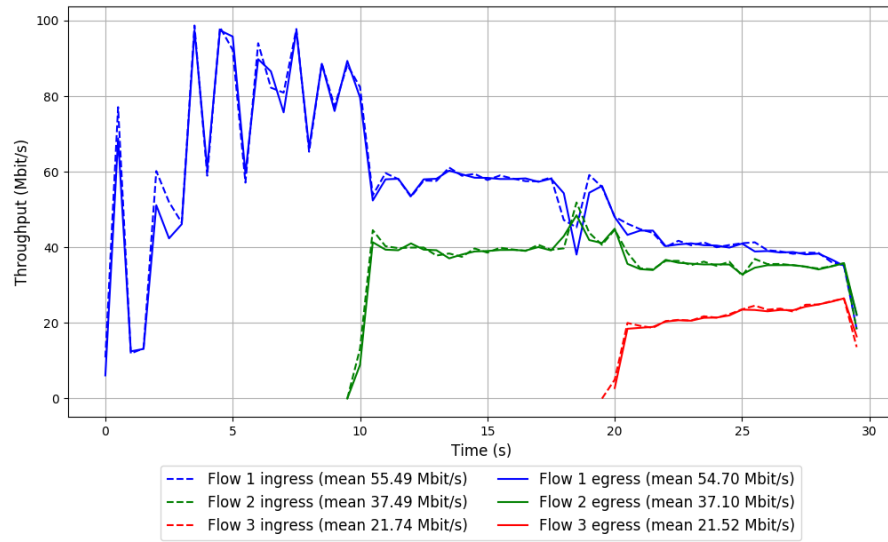
-- Flow 3:

Average throughput: 21.52 Mbit/s

95th percentile per-packet one-way delay: 65.462 ms

Loss rate: 1.06%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2017-12-12 00:47:00

End at: 2017-12-12 00:47:30

Local clock offset: -0.631 ms

Remote clock offset: 0.035 ms

Below is generated by plot.py at 2017-12-12 03:42:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.78 Mbit/s

95th percentile per-packet one-way delay: 62.264 ms

Loss rate: 1.00%

-- Flow 1:

Average throughput: 59.09 Mbit/s

95th percentile per-packet one-way delay: 61.729 ms

Loss rate: 1.28%

-- Flow 2:

Average throughput: 28.13 Mbit/s

95th percentile per-packet one-way delay: 62.553 ms

Loss rate: 0.31%

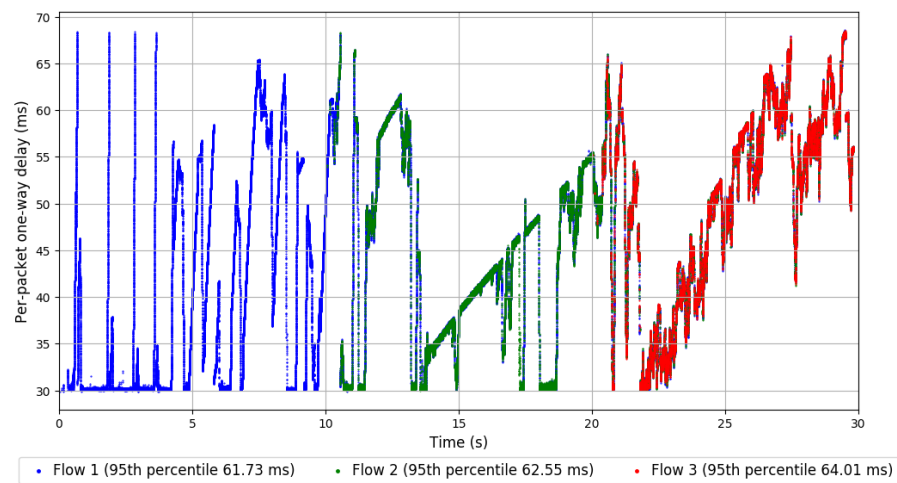
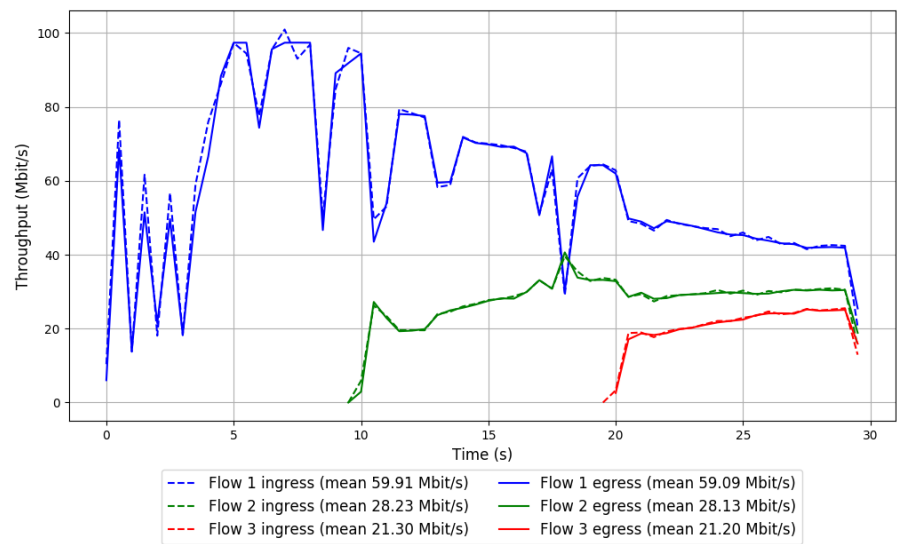
-- Flow 3:

Average throughput: 21.20 Mbit/s

95th percentile per-packet one-way delay: 64.012 ms

Loss rate: 0.45%

Run 4: Report of QUIC Cubic — Data Link

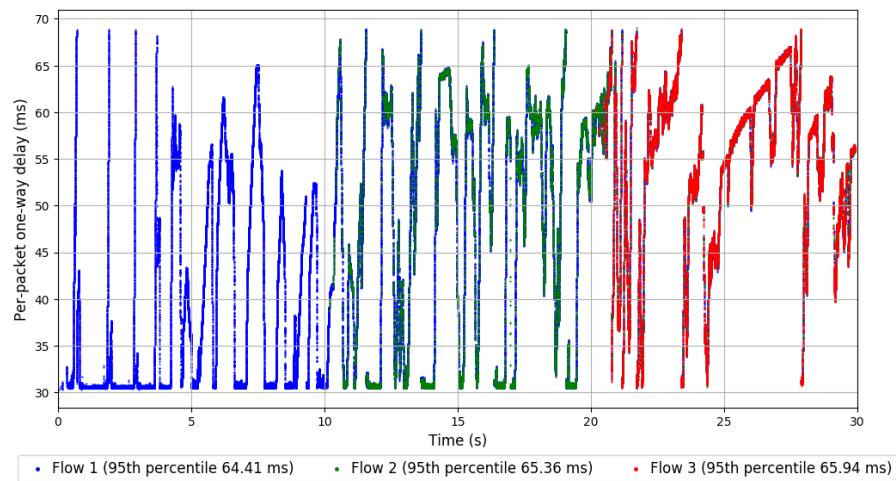
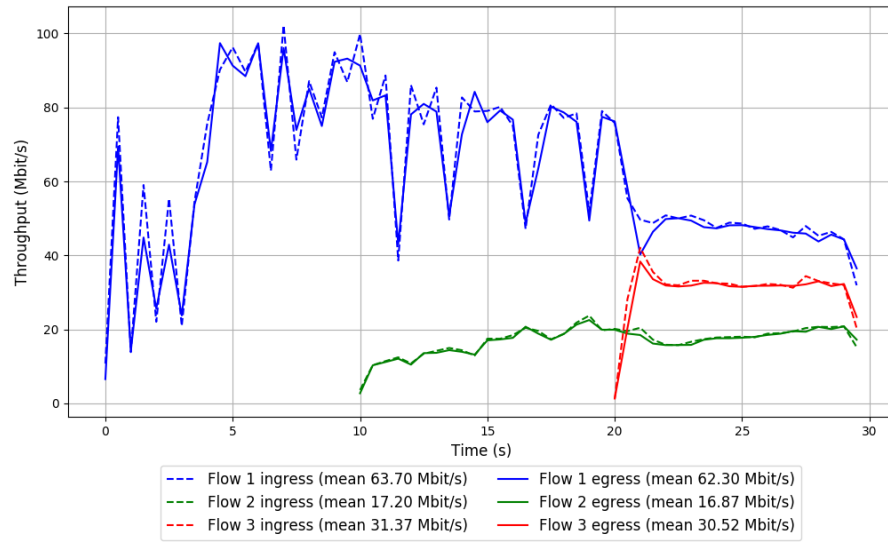


Run 5: Statistics of QUIC Cubic

Start at: 2017-12-12 01:10:51
End at: 2017-12-12 01:11:21
Local clock offset: -0.247 ms
Remote clock offset: -1.752 ms

Below is generated by plot.py at 2017-12-12 03:42:04
Datalink statistics
-- Total of 3 flows:
Average throughput: 83.50 Mbit/s
95th percentile per-packet one-way delay: 64.730 ms
Loss rate: 2.14%
-- Flow 1:
Average throughput: 62.30 Mbit/s
95th percentile per-packet one-way delay: 64.410 ms
Loss rate: 2.11%
-- Flow 2:
Average throughput: 16.87 Mbit/s
95th percentile per-packet one-way delay: 65.361 ms
Loss rate: 1.78%
-- Flow 3:
Average throughput: 30.52 Mbit/s
95th percentile per-packet one-way delay: 65.943 ms
Loss rate: 2.69%

Run 5: Report of QUIC Cubic — Data Link

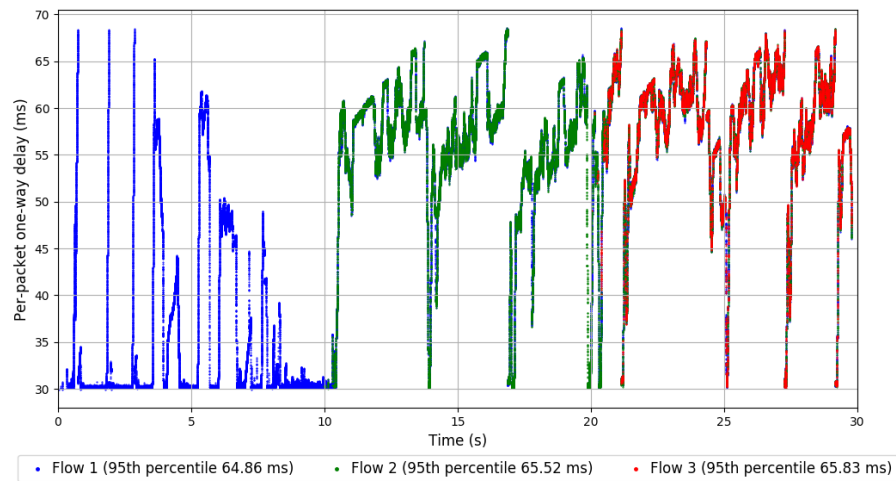
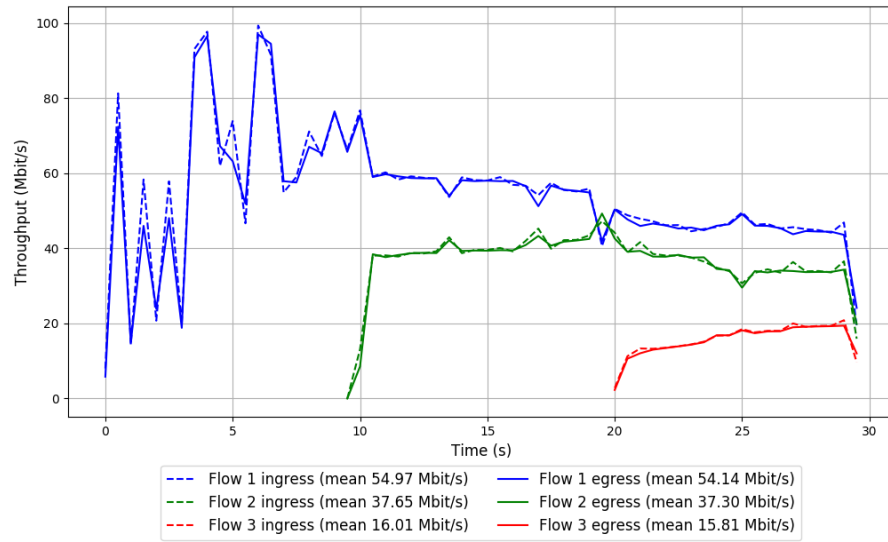


Run 6: Statistics of QUIC Cubic

Start at: 2017-12-12 01:35:47
End at: 2017-12-12 01:36:17
Local clock offset: 0.079 ms
Remote clock offset: -3.644 ms

Below is generated by plot.py at 2017-12-12 03:42:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 84.13 Mbit/s
95th percentile per-packet one-way delay: 65.249 ms
Loss rate: 1.28%
-- Flow 1:
Average throughput: 54.14 Mbit/s
95th percentile per-packet one-way delay: 64.856 ms
Loss rate: 1.46%
-- Flow 2:
Average throughput: 37.30 Mbit/s
95th percentile per-packet one-way delay: 65.517 ms
Loss rate: 0.87%
-- Flow 3:
Average throughput: 15.81 Mbit/s
95th percentile per-packet one-way delay: 65.827 ms
Loss rate: 1.31%

Run 6: Report of QUIC Cubic — Data Link

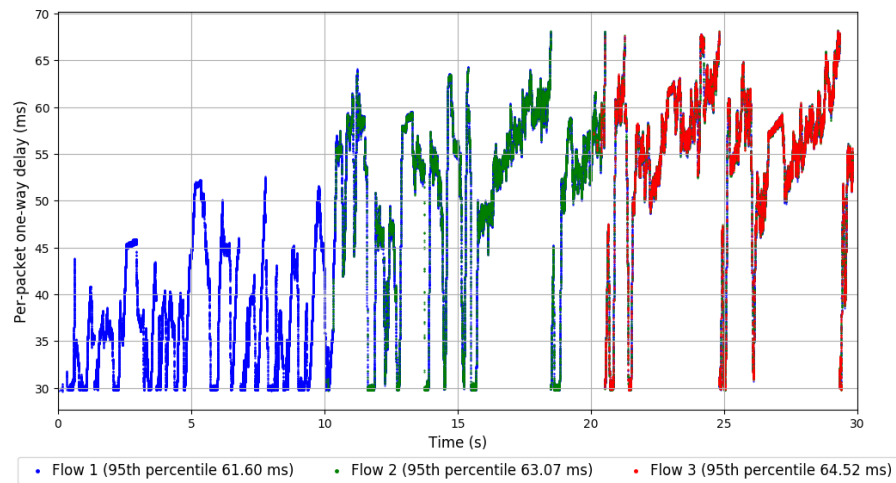
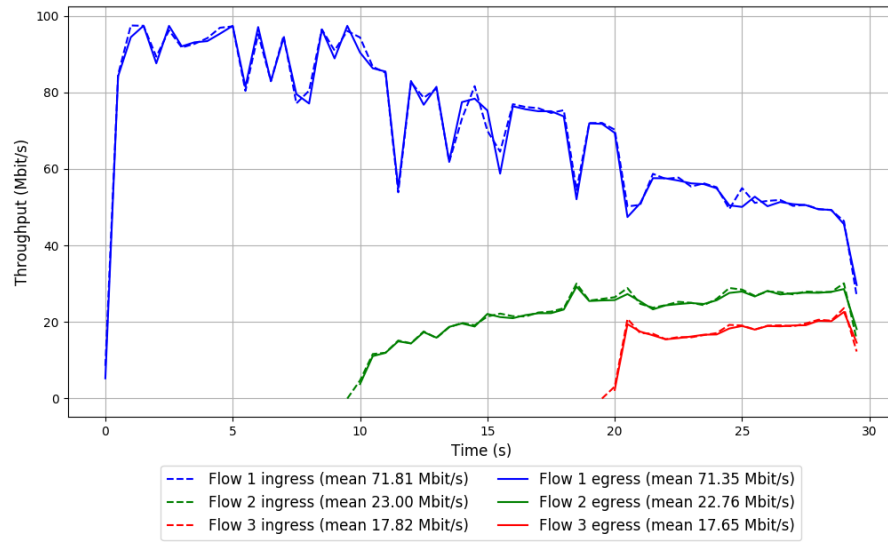


Run 7: Statistics of QUIC Cubic

Start at: 2017-12-12 02:00:44
End at: 2017-12-12 02:01:14
Local clock offset: 0.705 ms
Remote clock offset: -3.593 ms

Below is generated by plot.py at 2017-12-12 03:42:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 92.29 Mbit/s
95th percentile per-packet one-way delay: 62.045 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 71.35 Mbit/s
95th percentile per-packet one-way delay: 61.605 ms
Loss rate: 0.56%
-- Flow 2:
Average throughput: 22.76 Mbit/s
95th percentile per-packet one-way delay: 63.067 ms
Loss rate: 1.00%
-- Flow 3:
Average throughput: 17.65 Mbit/s
95th percentile per-packet one-way delay: 64.520 ms
Loss rate: 0.99%

Run 7: Report of QUIC Cubic — Data Link

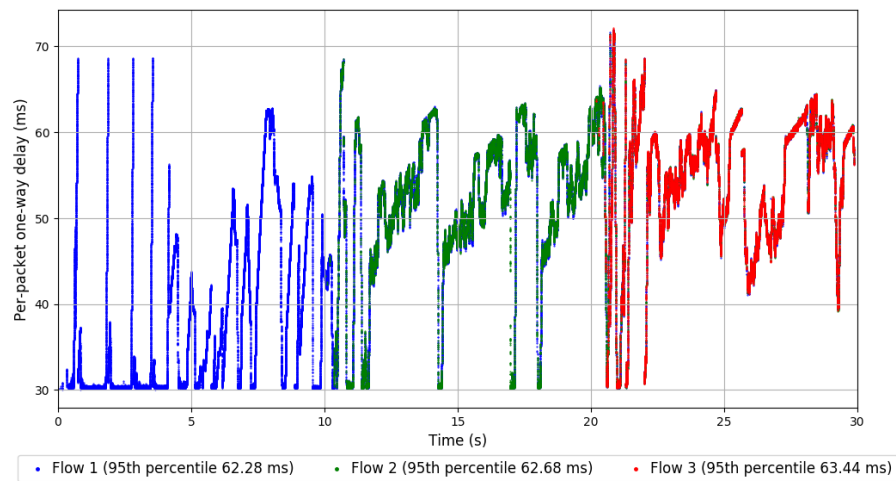
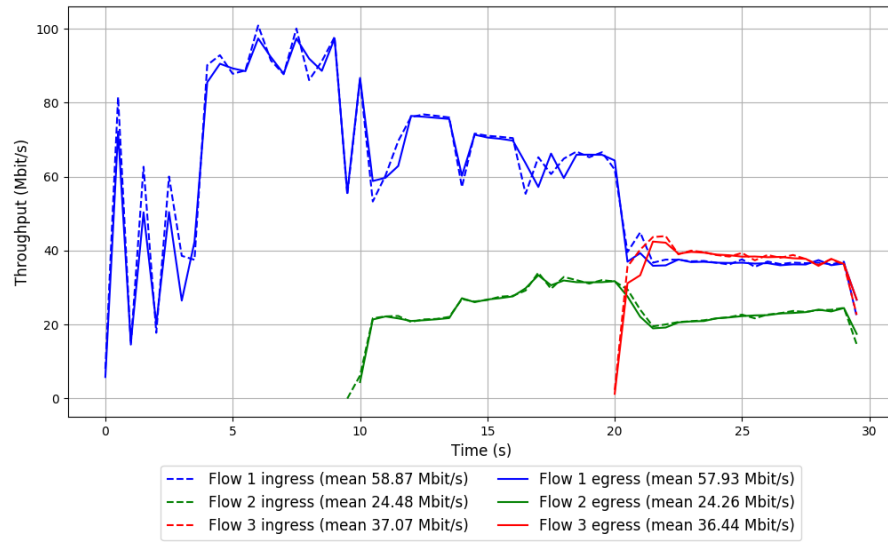


Run 8: Statistics of QUIC Cubic

Start at: 2017-12-12 02:25:57
End at: 2017-12-12 02:26:27
Local clock offset: 1.146 ms
Remote clock offset: -2.197 ms

Below is generated by plot.py at 2017-12-12 03:43:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 85.99 Mbit/s
95th percentile per-packet one-way delay: 62.433 ms
Loss rate: 1.40%
-- Flow 1:
Average throughput: 57.93 Mbit/s
95th percentile per-packet one-way delay: 62.280 ms
Loss rate: 1.50%
-- Flow 2:
Average throughput: 24.26 Mbit/s
95th percentile per-packet one-way delay: 62.682 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 36.44 Mbit/s
95th percentile per-packet one-way delay: 63.442 ms
Loss rate: 1.71%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

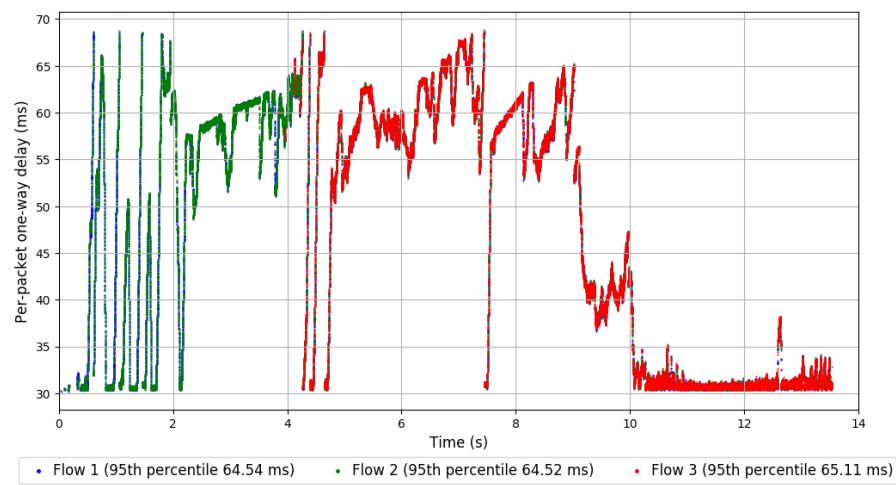
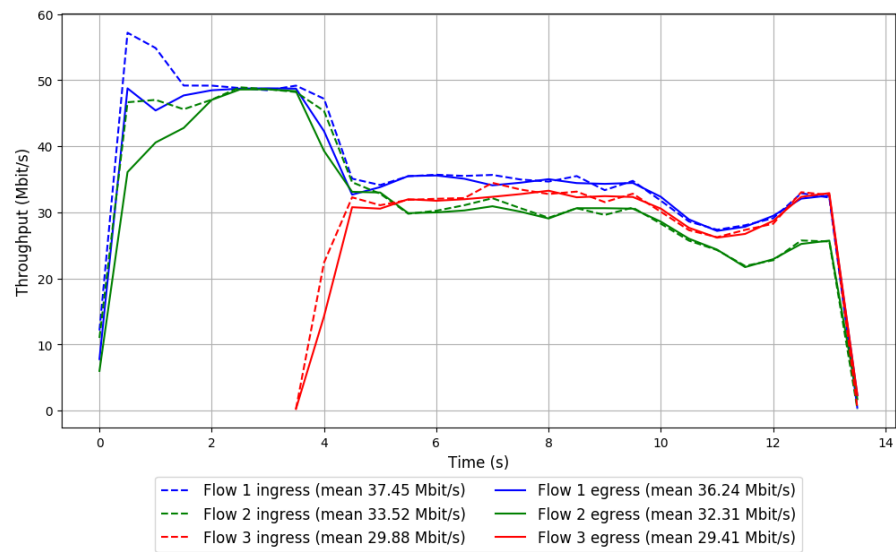
Start at: 2017-12-12 02:50:28

End at: 2017-12-12 02:50:58

Local clock offset: 1.291 ms

Remote clock offset: -1.862 ms

Run 9: Report of QUIC Cubic — Data Link

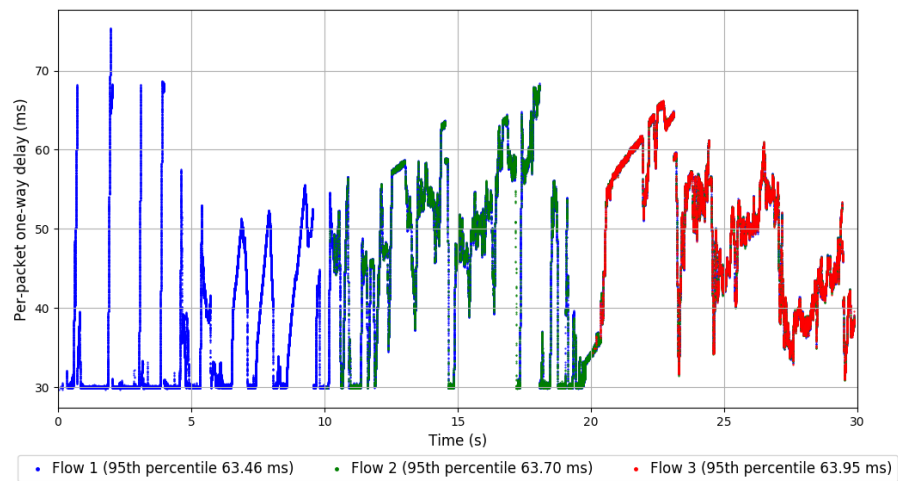
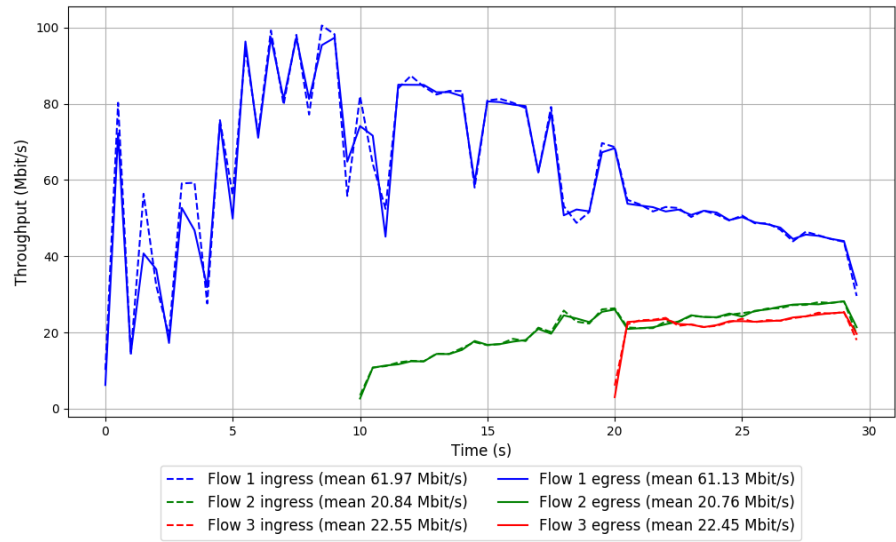


Run 10: Statistics of QUIC Cubic

Start at: 2017-12-12 03:14:56
End at: 2017-12-12 03:15:26
Local clock offset: 1.369 ms
Remote clock offset: -2.071 ms

Below is generated by plot.py at 2017-12-12 03:43:04
Datalink statistics
-- Total of 3 flows:
Average throughput: 82.29 Mbit/s
95th percentile per-packet one-way delay: 63.546 ms
Loss rate: 1.09%
-- Flow 1:
Average throughput: 61.13 Mbit/s
95th percentile per-packet one-way delay: 63.460 ms
Loss rate: 1.33%
-- Flow 2:
Average throughput: 20.76 Mbit/s
95th percentile per-packet one-way delay: 63.698 ms
Loss rate: 0.38%
-- Flow 3:
Average throughput: 22.45 Mbit/s
95th percentile per-packet one-way delay: 63.945 ms
Loss rate: 0.38%

Run 10: Report of QUIC Cubic — Data Link

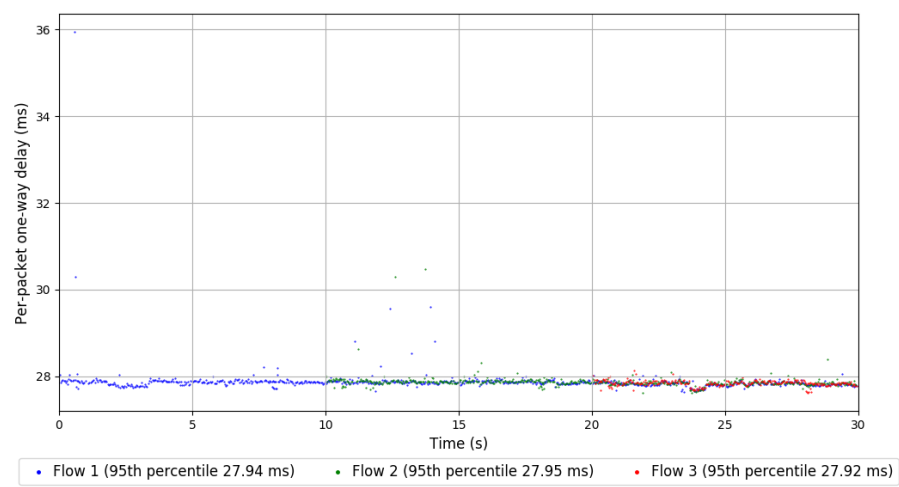
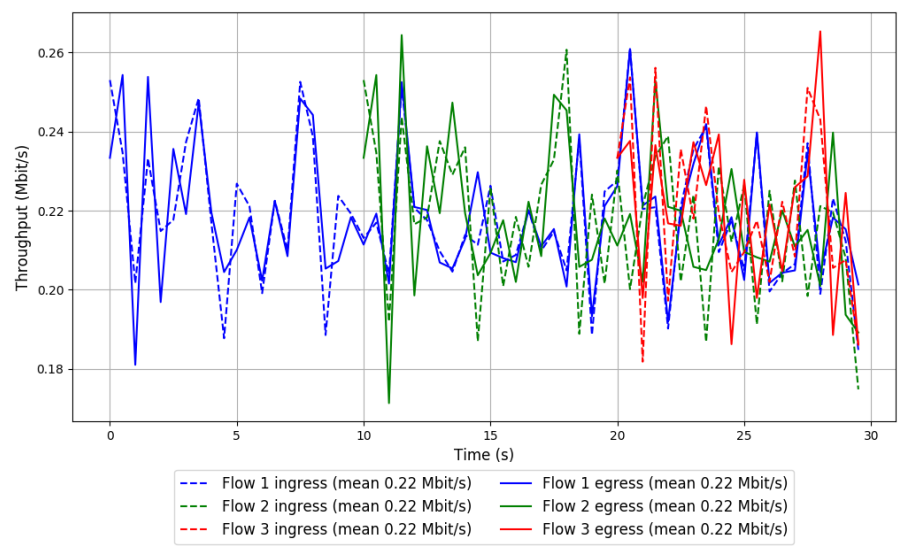


```
Run 1: Statistics of SReAM

Start at: 2017-12-11 23:25:05
End at: 2017-12-11 23:25:35
Local clock offset: -0.357 ms
Remote clock offset: 0.171 ms

# Below is generated by plot.py at 2017-12-12 03:43:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 27.942 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 27.944 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 27.947 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 27.920 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

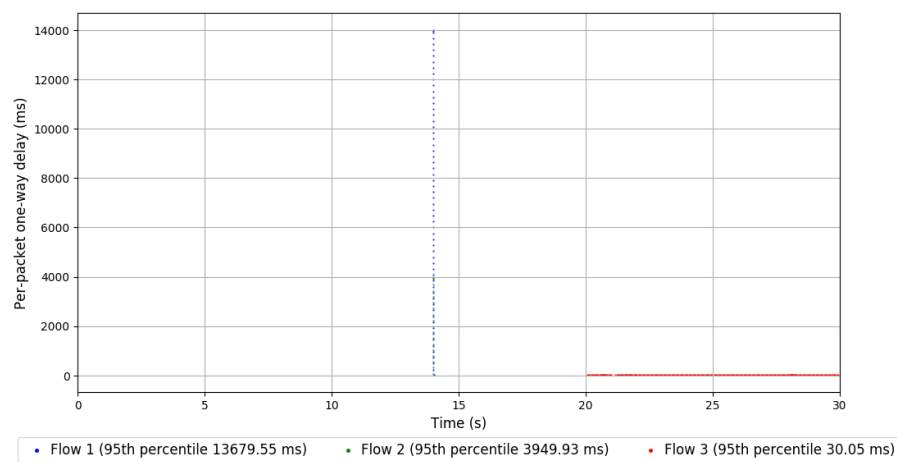
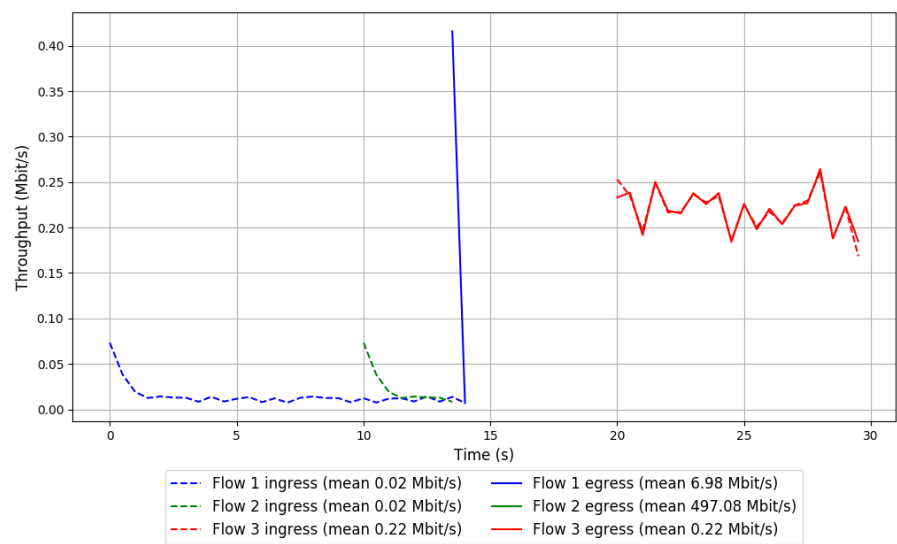
Start at: 2017-12-11 23:47:10

End at: 2017-12-11 23:47:40

Local clock offset: -0.063 ms

Remote clock offset: 2.665 ms

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

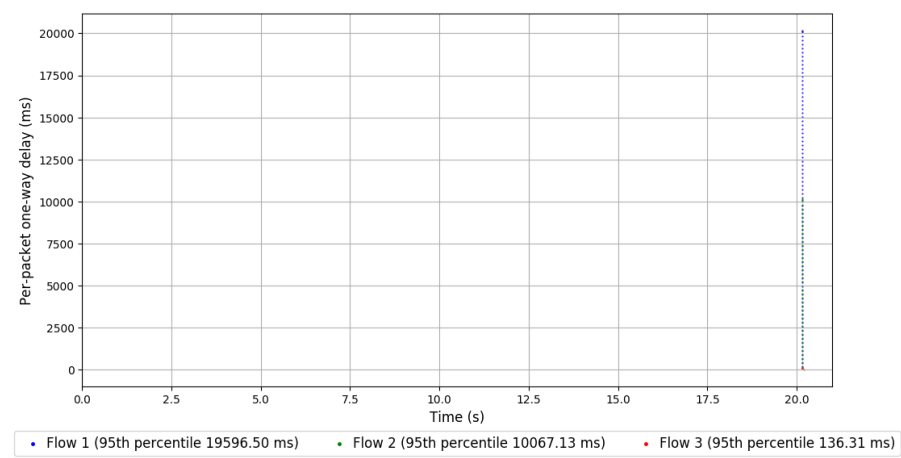
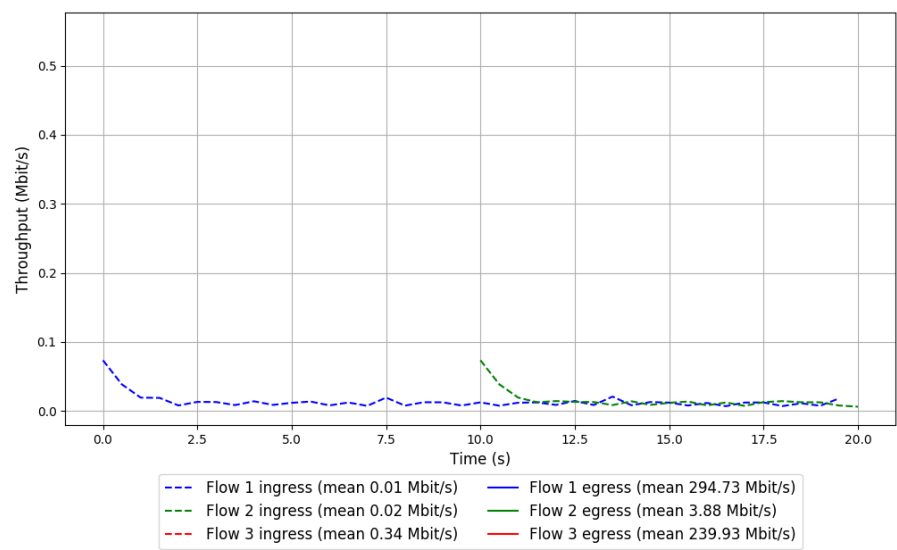
Start at: 2017-12-12 00:09:50

End at: 2017-12-12 00:10:20

Local clock offset: -0.412 ms

Remote clock offset: 2.004 ms

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2017-12-12 00:32:13

End at: 2017-12-12 00:32:43

Local clock offset: -0.731 ms

Remote clock offset: -1.014 ms

Run 4: Report of SReAM — Data Link

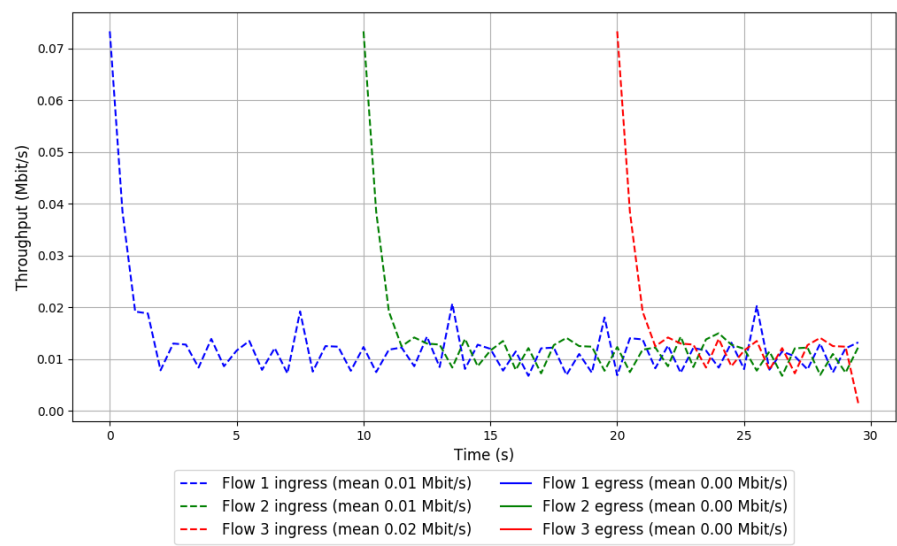


Figure is missing

Run 5: Statistics of SCReAM

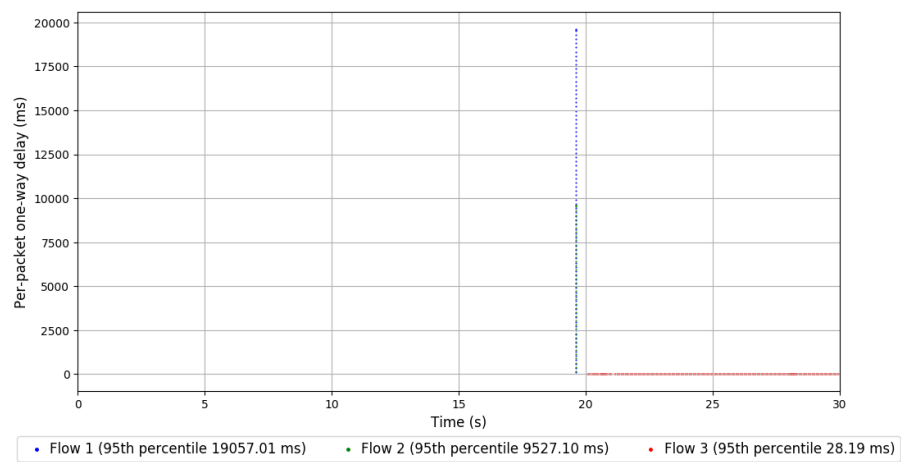
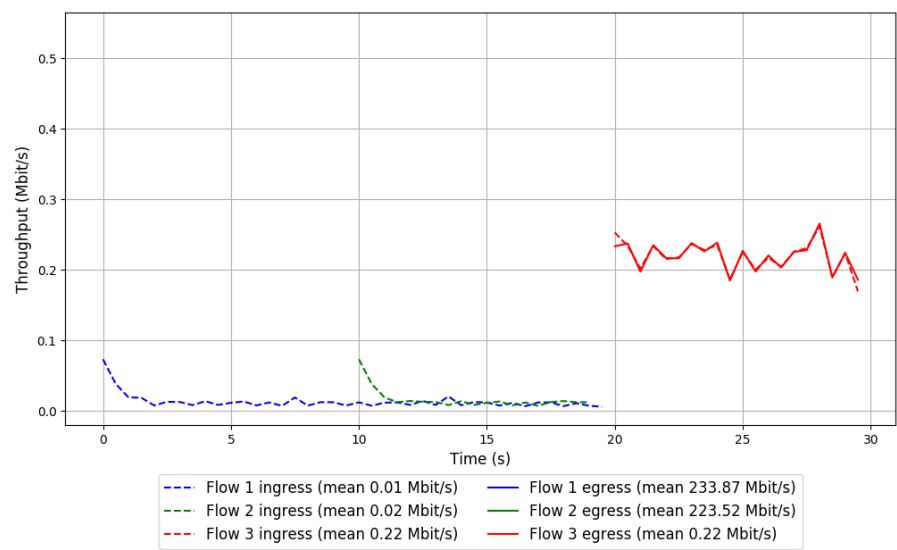
Start at: 2017-12-12 00:55:08

End at: 2017-12-12 00:55:38

Local clock offset: -0.587 ms

Remote clock offset: -2.944 ms

Run 5: Report of SReAM — Data Link

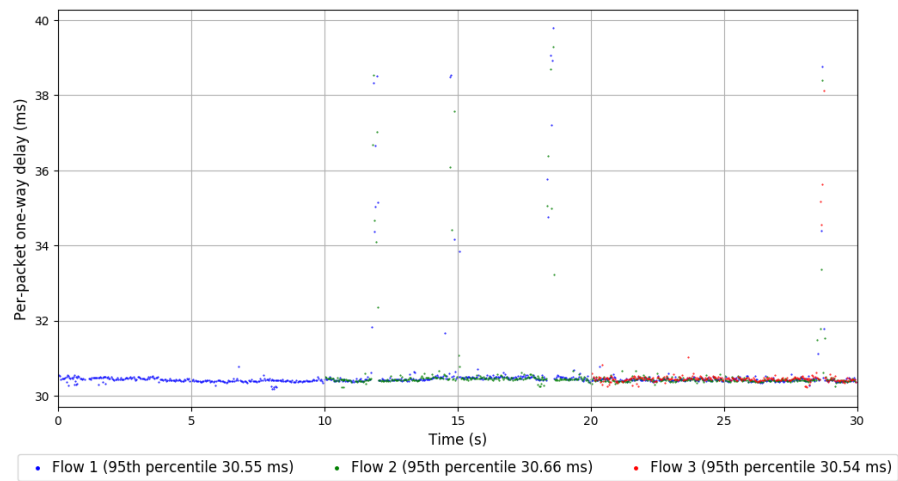
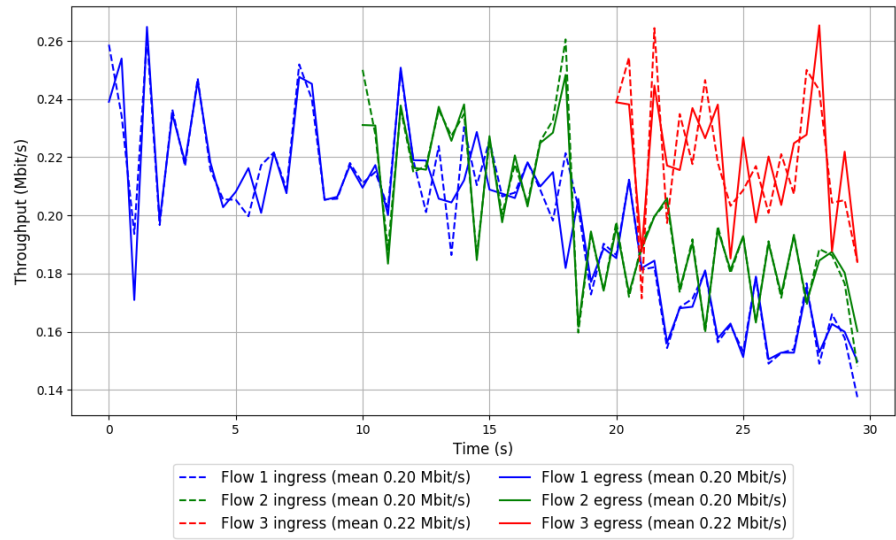


Run 6: Statistics of SCReAM

Start at: 2017-12-12 01:19:47
End at: 2017-12-12 01:20:17
Local clock offset: -0.016 ms
Remote clock offset: -2.493 ms

Below is generated by plot.py at 2017-12-12 03:43:04
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.41 Mbit/s
95th percentile per-packet one-way delay: 30.576 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 0.20 Mbit/s
95th percentile per-packet one-way delay: 30.545 ms
Loss rate: 0.16%
-- Flow 2:
Average throughput: 0.20 Mbit/s
95th percentile per-packet one-way delay: 30.663 ms
Loss rate: 0.22%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 30.539 ms
Loss rate: 0.00%

Run 6: Report of SReAM — Data Link

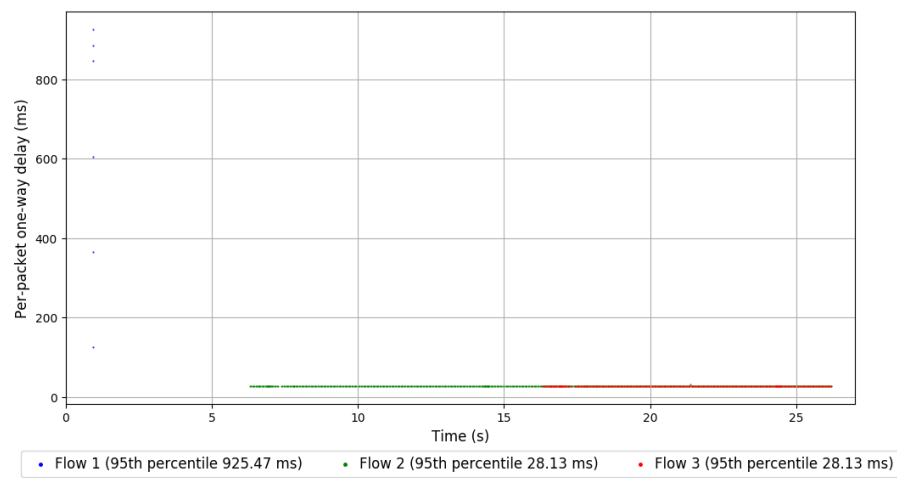
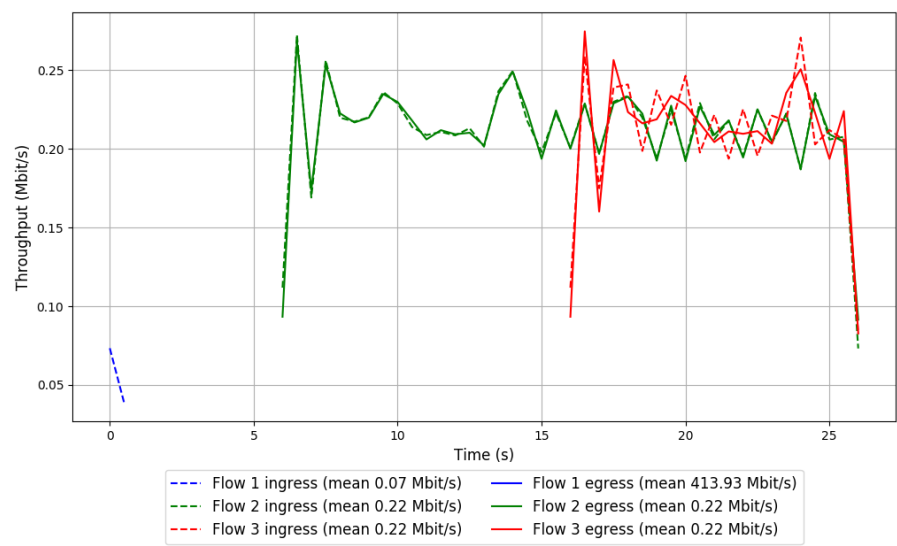


Run 7: Statistics of SReAM

Start at: 2017-12-12 01:44:36
End at: 2017-12-12 01:45:06
Local clock offset: 0.166 ms
Remote clock offset: -5.968 ms

Below is generated by plot.py at 2017-12-12 03:43:04
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.26 Mbit/s
95th percentile per-packet one-way delay: 28.130 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 413.93 Mbit/s
95th percentile per-packet one-way delay: 925.473 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 28.127 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 28.128 ms
Loss rate: 0.00%

Run 7: Report of SReAM — Data Link

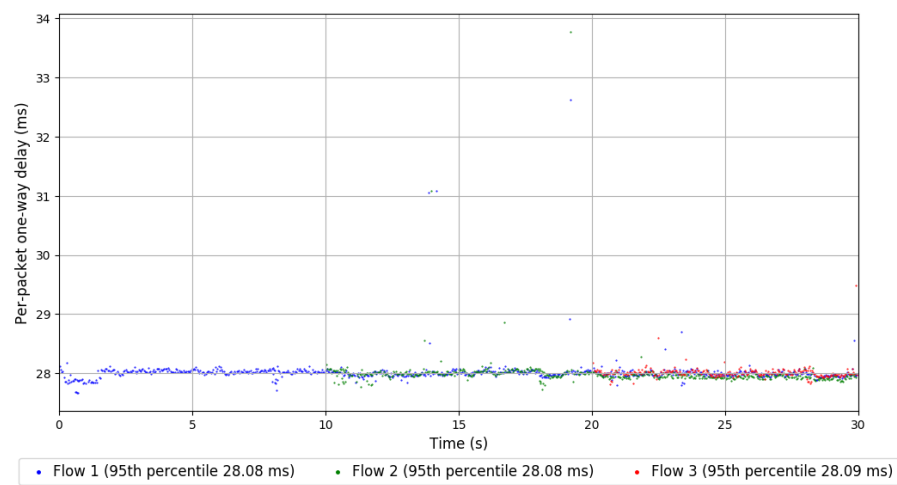
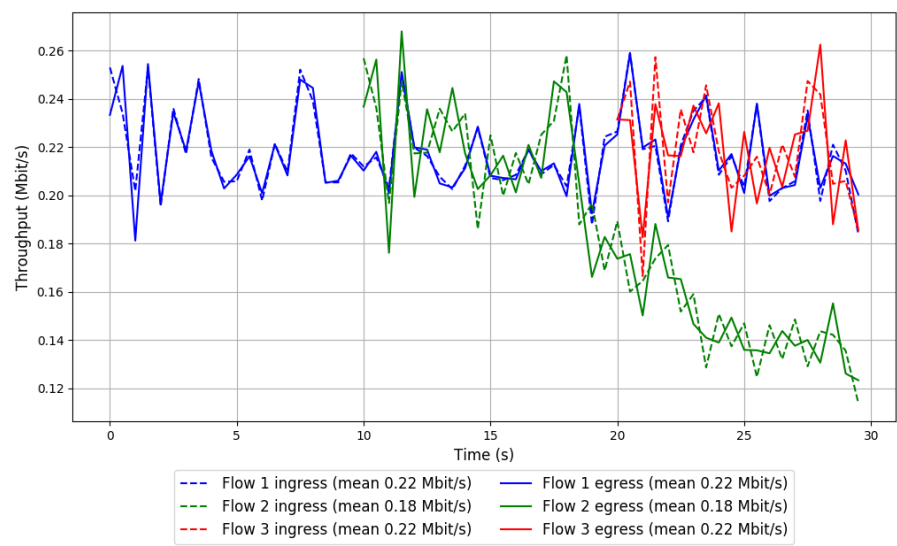


Run 8: Statistics of SCReAM

Start at: 2017-12-12 02:09:48
End at: 2017-12-12 02:10:18
Local clock offset: 0.877 ms
Remote clock offset: -5.301 ms

Below is generated by plot.py at 2017-12-12 03:43:04
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.41 Mbit/s
95th percentile per-packet one-way delay: 28.079 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 28.081 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 28.076 ms
Loss rate: 0.23%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 28.090 ms
Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

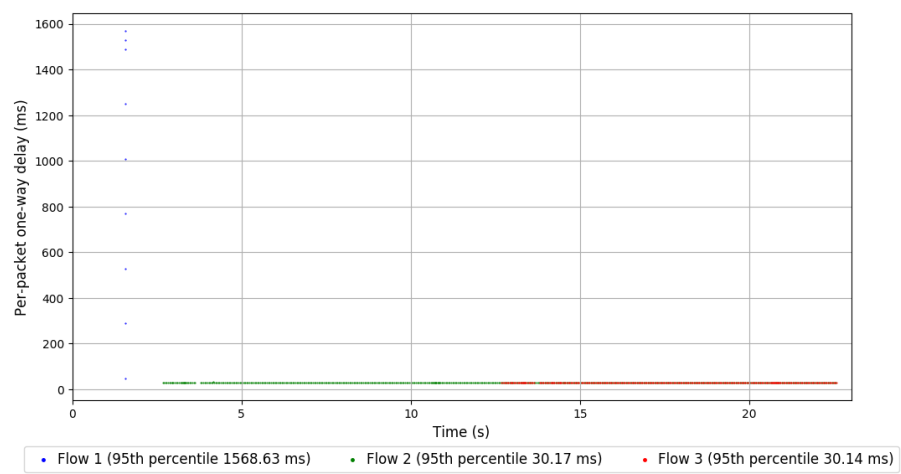
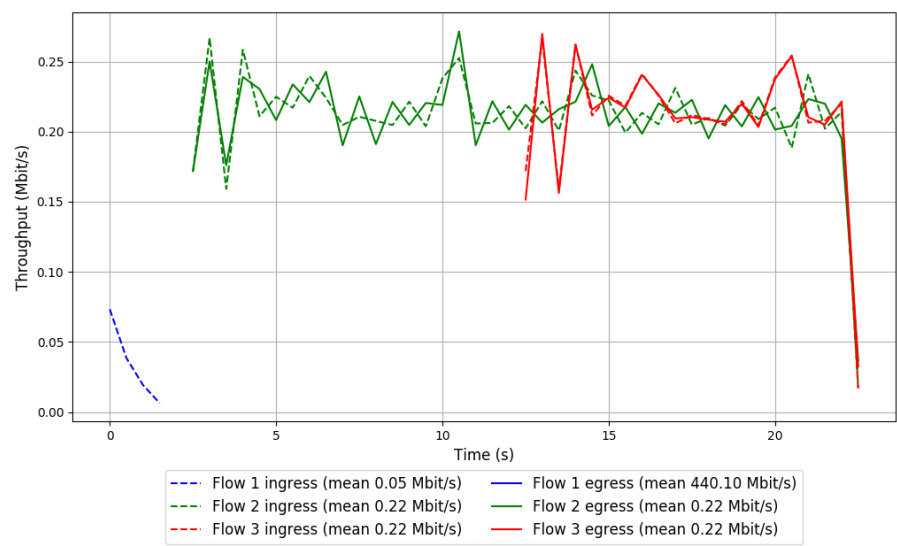
Start at: 2017-12-12 02:34:21

End at: 2017-12-12 02:34:51

Local clock offset: 1.173 ms

Remote clock offset: -2.361 ms

Run 9: Report of SReAM — Data Link

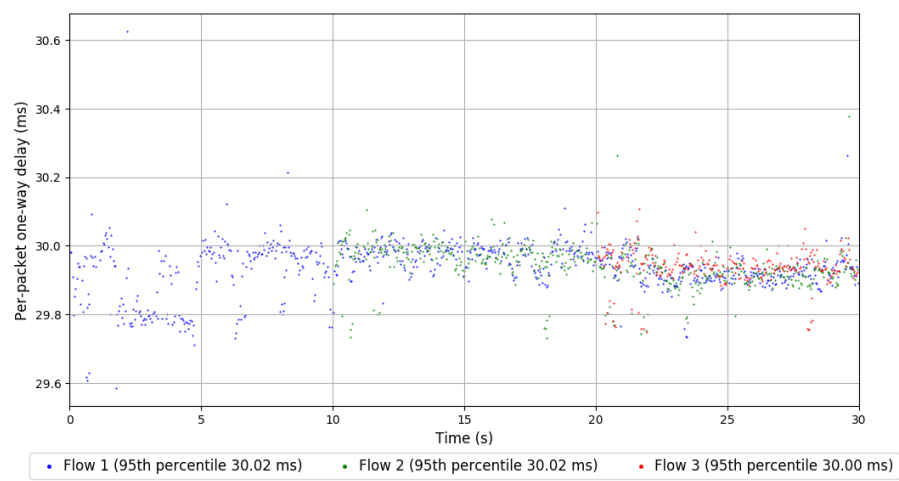
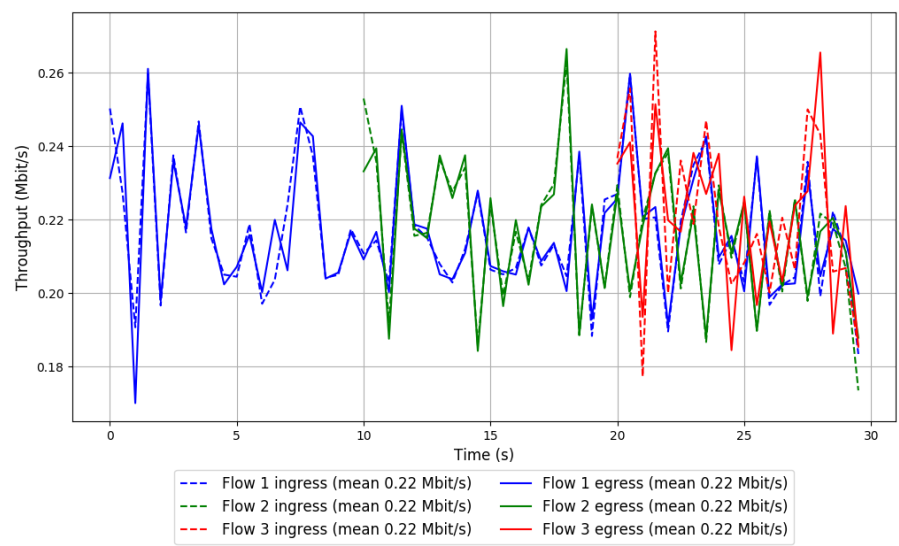


Run 10: Statistics of SReAM

Start at: 2017-12-12 02:59:18
End at: 2017-12-12 02:59:48
Local clock offset: 1.38 ms
Remote clock offset: -2.294 ms

Below is generated by plot.py at 2017-12-12 03:43:04
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 30.017 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 30.019 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 30.017 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 30.005 ms
Loss rate: 0.00%

Run 10: Report of SReAM — Data Link



Run 1: Statistics of WebRTC media

Start at: 2017-12-11 23:20:32

End at: 2017-12-11 23:21:02

Local clock offset: -0.504 ms

Remote clock offset: 2.684 ms

Below is generated by plot.py at 2017-12-12 03:43:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.35 Mbit/s

95th percentile per-packet one-way delay: 31.211 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 31.161 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.53 Mbit/s

95th percentile per-packet one-way delay: 31.178 ms

Loss rate: 0.08%

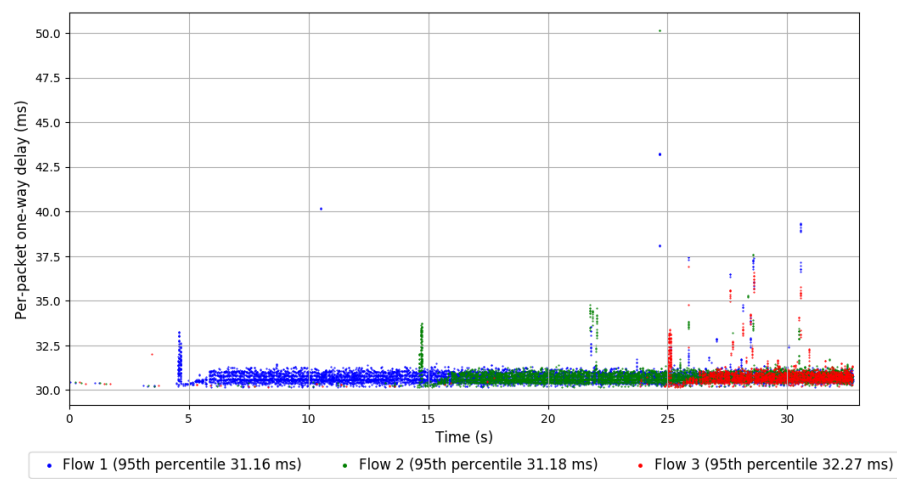
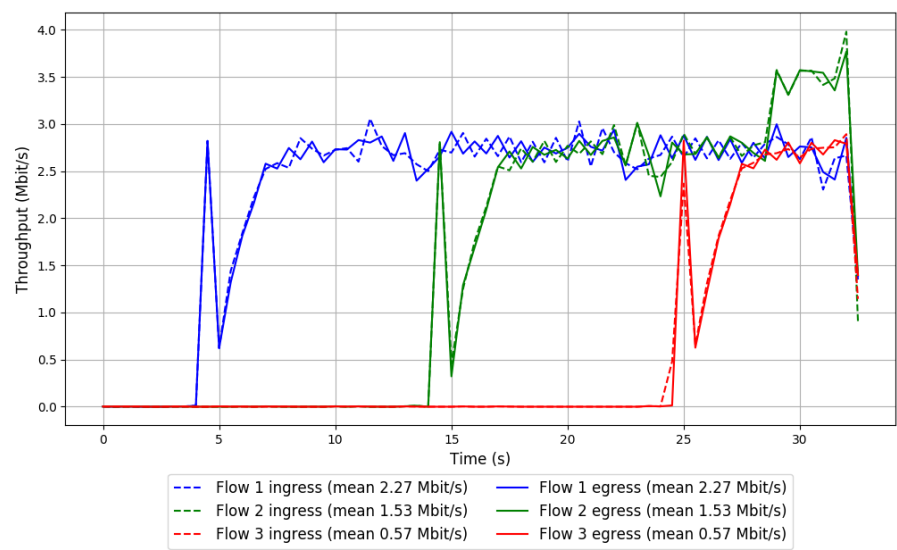
-- Flow 3:

Average throughput: 0.57 Mbit/s

95th percentile per-packet one-way delay: 32.265 ms

Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2017-12-11 23:42:00

End at: 2017-12-11 23:42:30

Local clock offset: -0.11 ms

Remote clock offset: 2.574 ms

Below is generated by plot.py at 2017-12-12 03:43:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.25 Mbit/s

95th percentile per-packet one-way delay: 30.699 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: 30.700 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.44 Mbit/s

95th percentile per-packet one-way delay: 30.678 ms

Loss rate: 0.00%

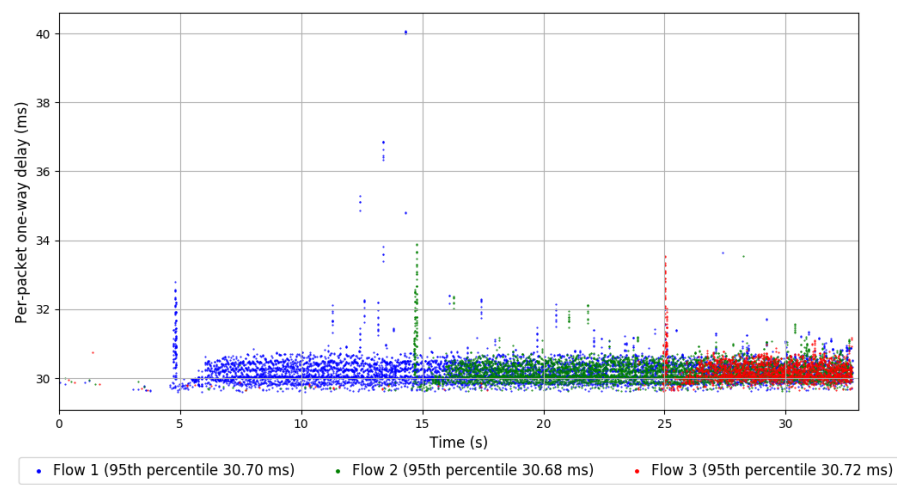
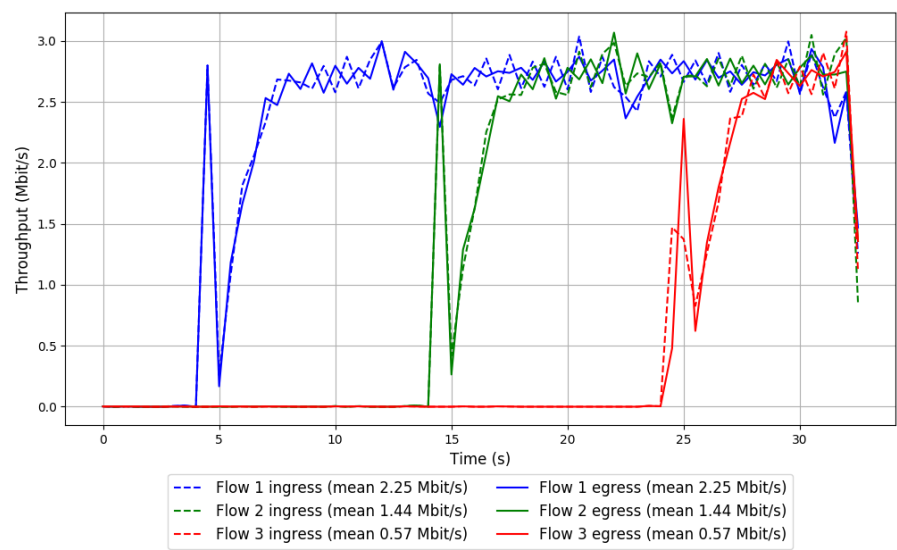
-- Flow 3:

Average throughput: 0.57 Mbit/s

95th percentile per-packet one-way delay: 30.717 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2017-12-12 00:04:48

End at: 2017-12-12 00:05:18

Local clock offset: -0.17 ms

Remote clock offset: 2.229 ms

Below is generated by plot.py at 2017-12-12 03:43:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.68 Mbit/s

95th percentile per-packet one-way delay: 30.624 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 2.50 Mbit/s

95th percentile per-packet one-way delay: 30.540 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 1.64 Mbit/s

95th percentile per-packet one-way delay: 30.669 ms

Loss rate: 0.14%

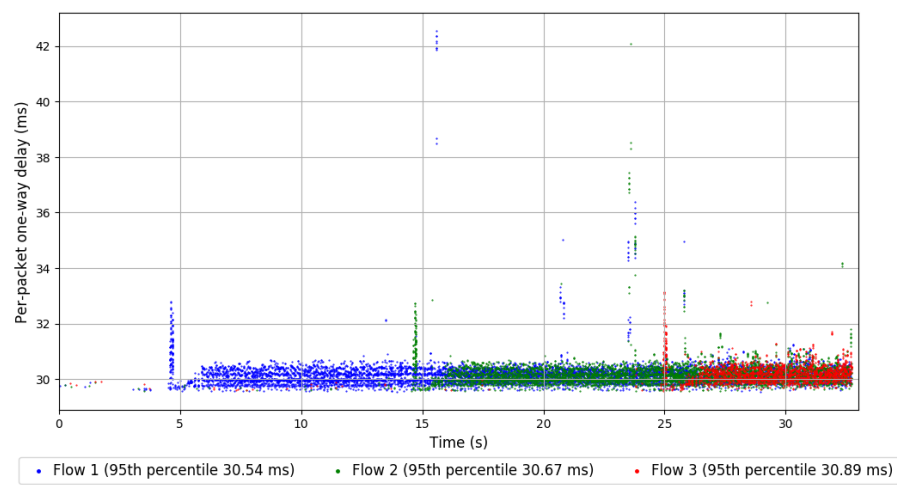
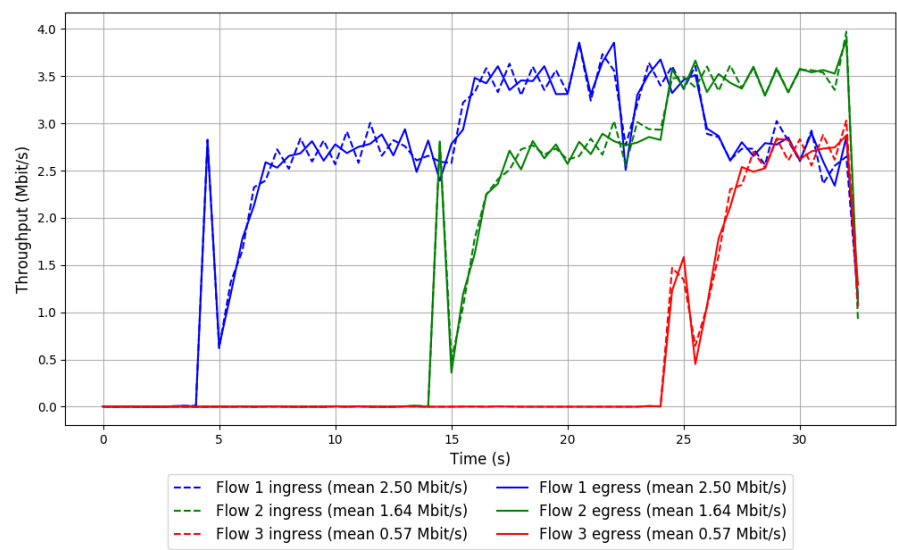
-- Flow 3:

Average throughput: 0.57 Mbit/s

95th percentile per-packet one-way delay: 30.894 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2017-12-12 00:27:22

End at: 2017-12-12 00:27:52

Local clock offset: -0.74 ms

Remote clock offset: 1.287 ms

Below is generated by plot.py at 2017-12-12 03:43:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.44 Mbit/s

95th percentile per-packet one-way delay: 30.658 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 2.47 Mbit/s

95th percentile per-packet one-way delay: 30.630 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 1.43 Mbit/s

95th percentile per-packet one-way delay: 30.661 ms

Loss rate: 0.00%

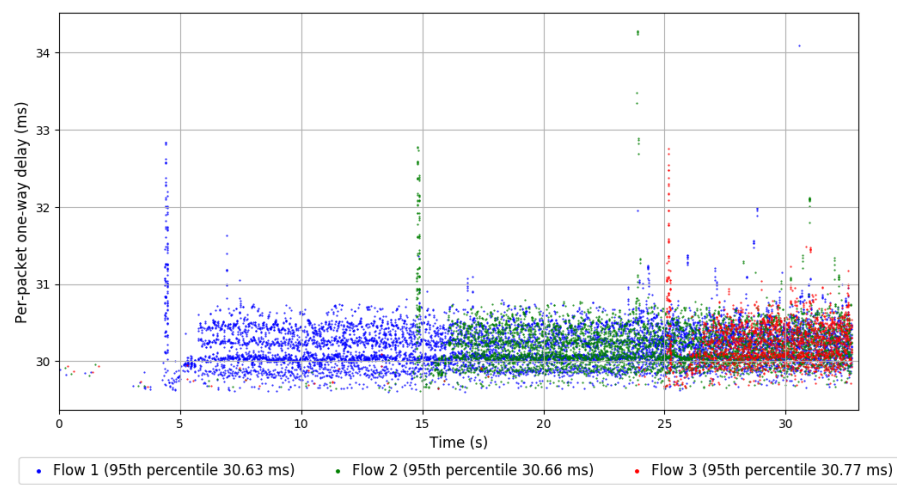
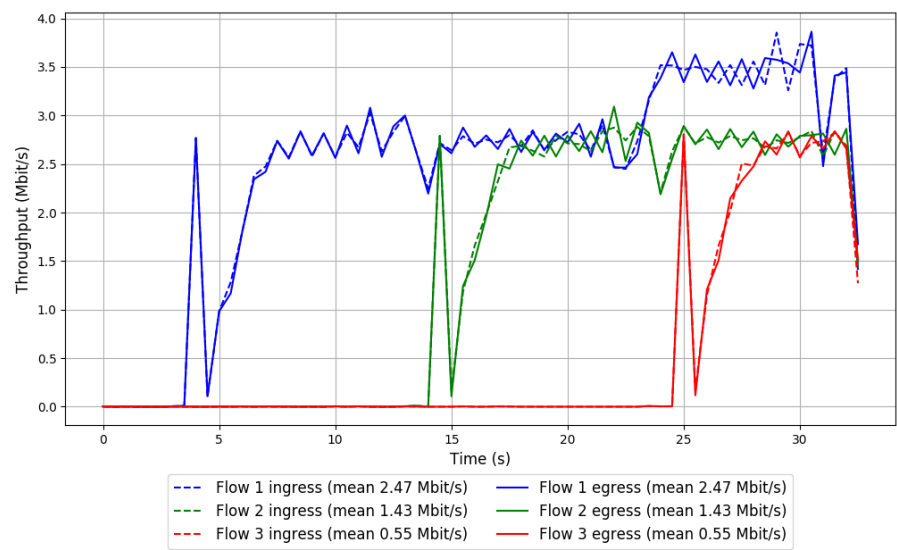
-- Flow 3:

Average throughput: 0.55 Mbit/s

95th percentile per-packet one-way delay: 30.766 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link

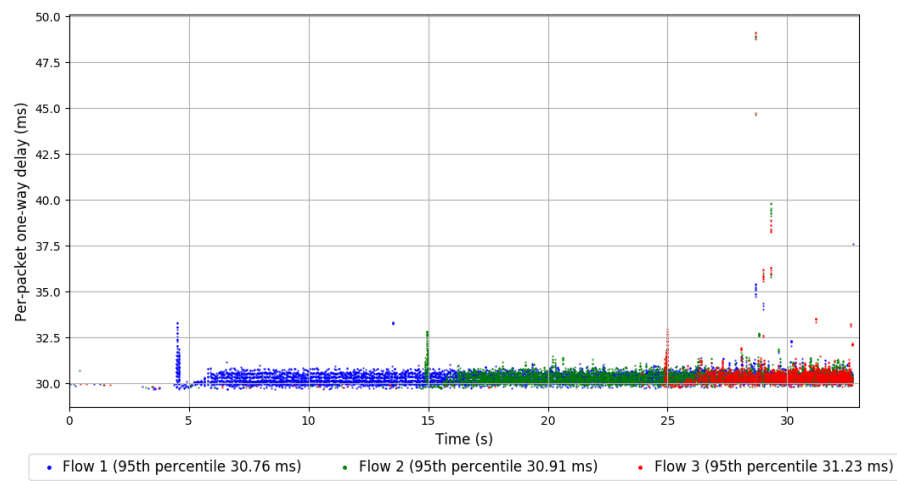
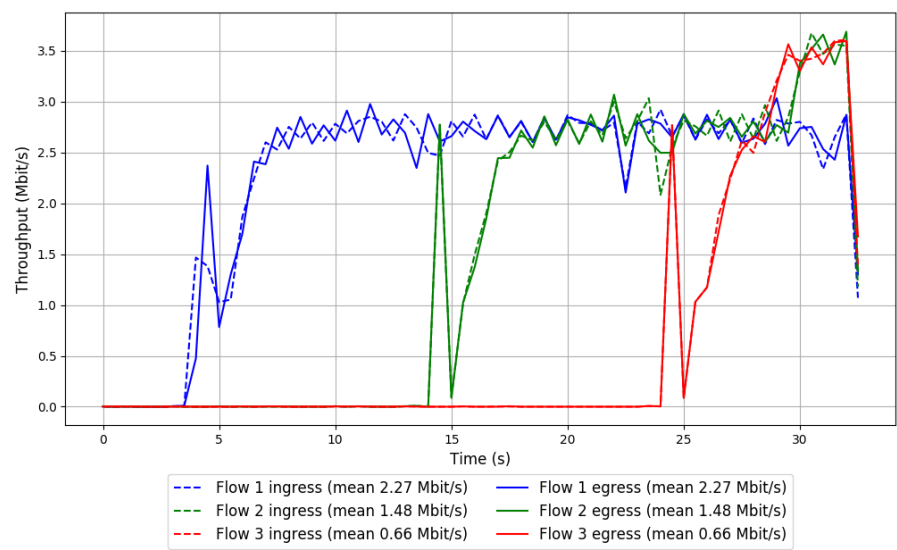


Run 5: Statistics of WebRTC media

Start at: 2017-12-12 00:50:03
End at: 2017-12-12 00:50:33
Local clock offset: -0.663 ms
Remote clock offset: -0.508 ms

Below is generated by plot.py at 2017-12-12 03:43:04
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.39 Mbit/s
95th percentile per-packet one-way delay: 30.852 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 2.27 Mbit/s
95th percentile per-packet one-way delay: 30.756 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.48 Mbit/s
95th percentile per-packet one-way delay: 30.915 ms
Loss rate: 0.21%
-- Flow 3:
Average throughput: 0.66 Mbit/s
95th percentile per-packet one-way delay: 31.230 ms
Loss rate: 0.30%

Run 5: Report of WebRTC media — Data Link

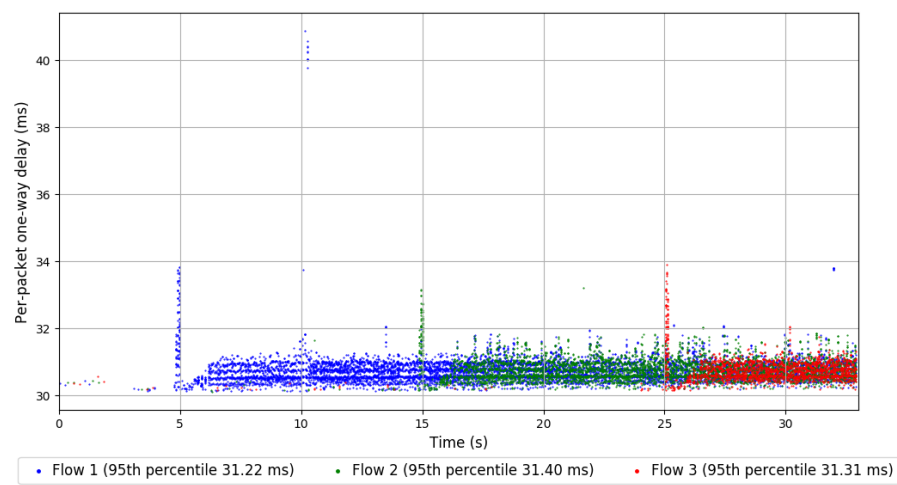
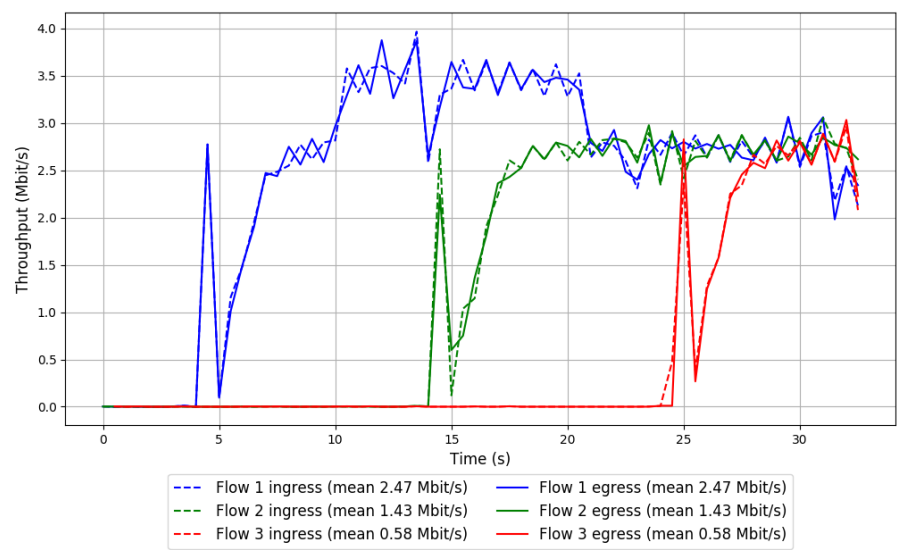


Run 6: Statistics of WebRTC media

Start at: 2017-12-12 01:14:12
End at: 2017-12-12 01:14:42
Local clock offset: -0.103 ms
Remote clock offset: -2.059 ms

Below is generated by plot.py at 2017-12-12 03:43:04
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.46 Mbit/s
95th percentile per-packet one-way delay: 31.295 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 2.47 Mbit/s
95th percentile per-packet one-way delay: 31.221 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 1.43 Mbit/s
95th percentile per-packet one-way delay: 31.403 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.58 Mbit/s
95th percentile per-packet one-way delay: 31.306 ms
Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link

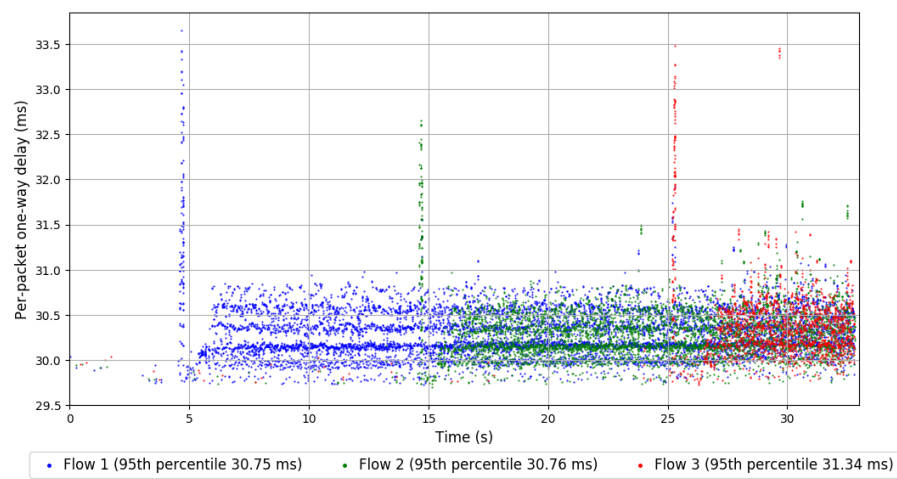
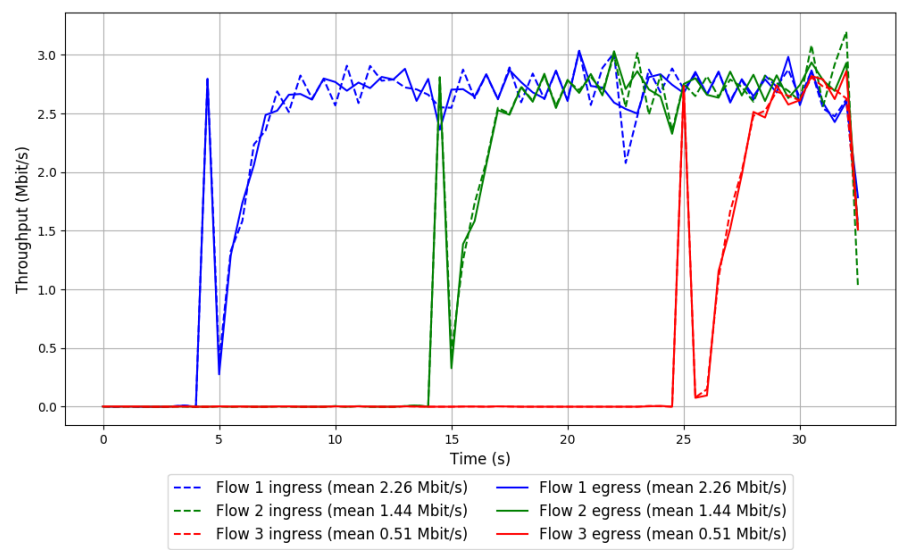


Run 7: Statistics of WebRTC media

Start at: 2017-12-12 01:39:16
End at: 2017-12-12 01:39:46
Local clock offset: 0.108 ms
Remote clock offset: -3.962 ms

Below is generated by plot.py at 2017-12-12 03:43:04
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.20 Mbit/s
95th percentile per-packet one-way delay: 30.779 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.26 Mbit/s
95th percentile per-packet one-way delay: 30.754 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.44 Mbit/s
95th percentile per-packet one-way delay: 30.758 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.51 Mbit/s
95th percentile per-packet one-way delay: 31.337 ms
Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link

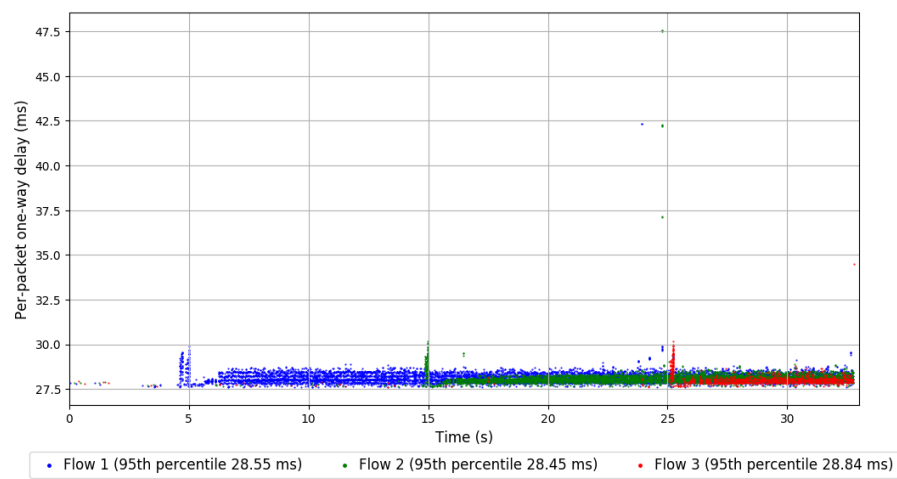
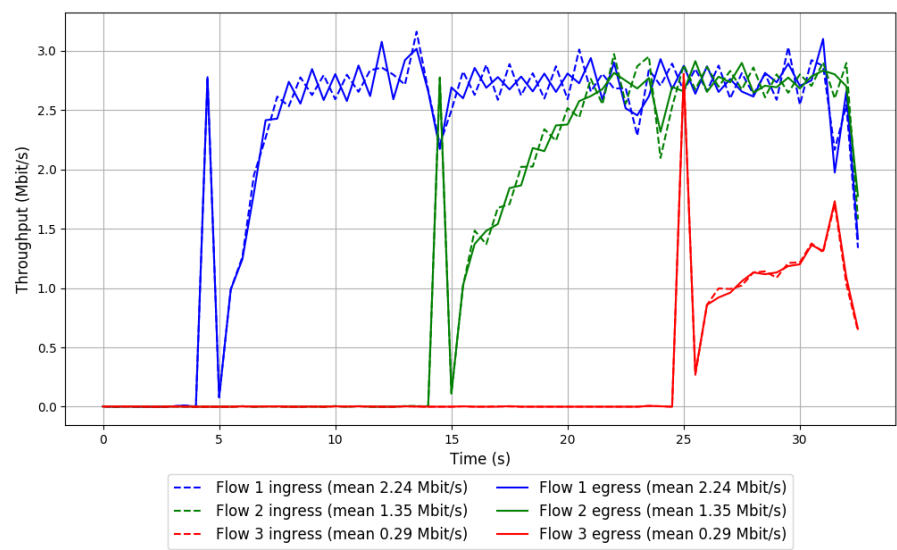


Run 8: Statistics of WebRTC media

Start at: 2017-12-12 02:04:12
End at: 2017-12-12 02:04:42
Local clock offset: 0.815 ms
Remote clock offset: -5.486 ms

Below is generated by plot.py at 2017-12-12 03:43:04
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.86 Mbit/s
95th percentile per-packet one-way delay: 28.527 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.24 Mbit/s
95th percentile per-packet one-way delay: 28.552 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.35 Mbit/s
95th percentile per-packet one-way delay: 28.454 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.29 Mbit/s
95th percentile per-packet one-way delay: 28.837 ms
Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link

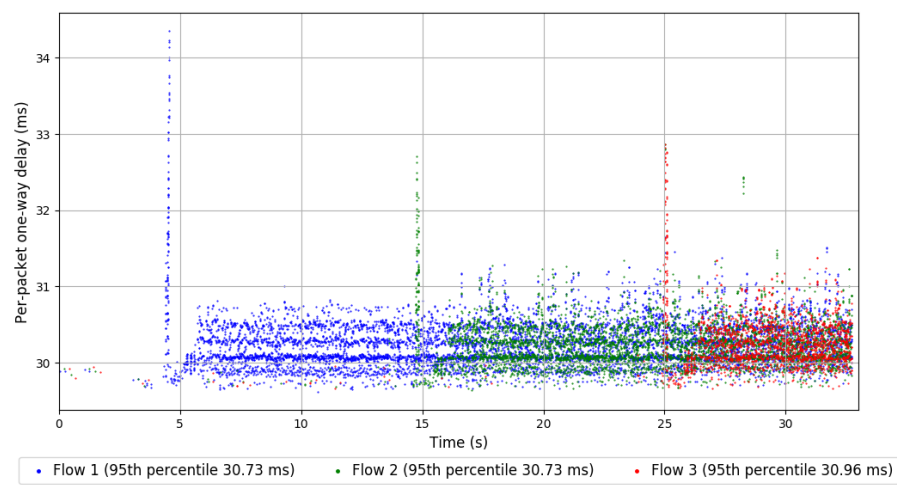
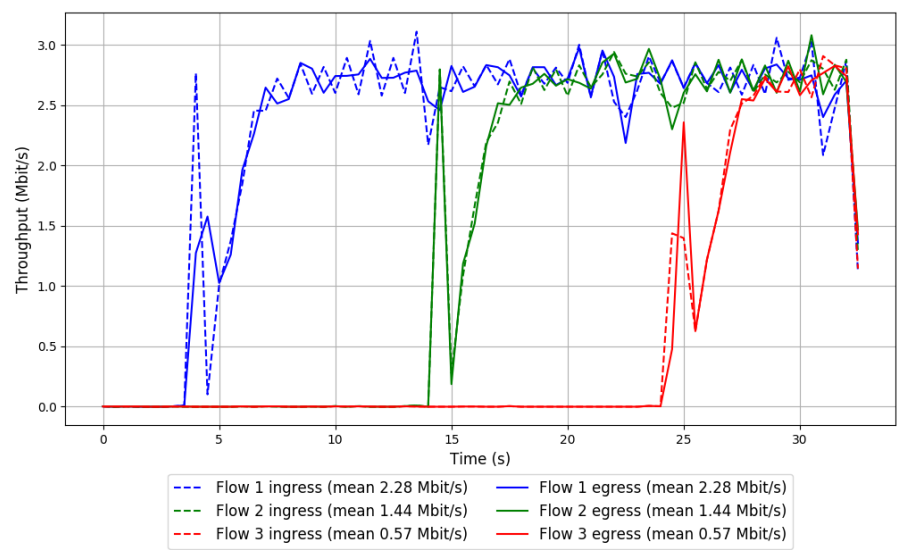


Run 9: Statistics of WebRTC media

Start at: 2017-12-12 02:29:05
End at: 2017-12-12 02:29:35
Local clock offset: 1.128 ms
Remote clock offset: -2.608 ms

Below is generated by plot.py at 2017-12-12 03:43:04
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.27 Mbit/s
95th percentile per-packet one-way delay: 30.752 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.28 Mbit/s
95th percentile per-packet one-way delay: 30.729 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.44 Mbit/s
95th percentile per-packet one-way delay: 30.735 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.57 Mbit/s
95th percentile per-packet one-way delay: 30.959 ms
Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link

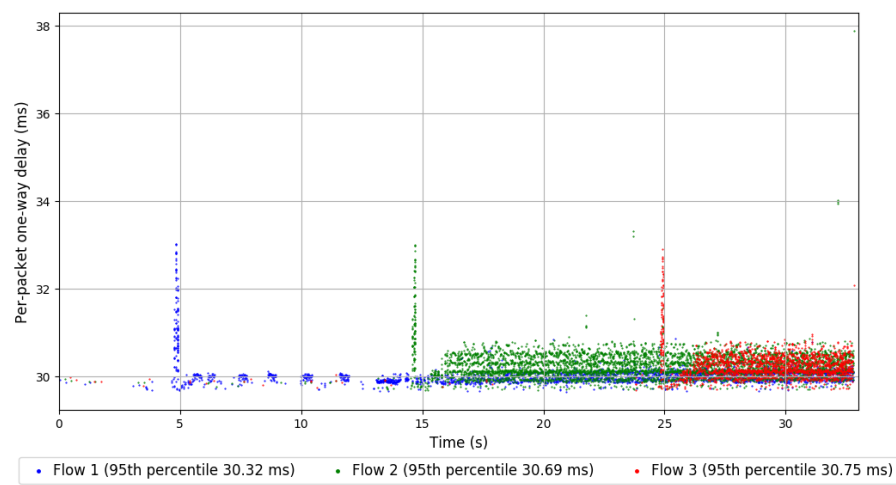
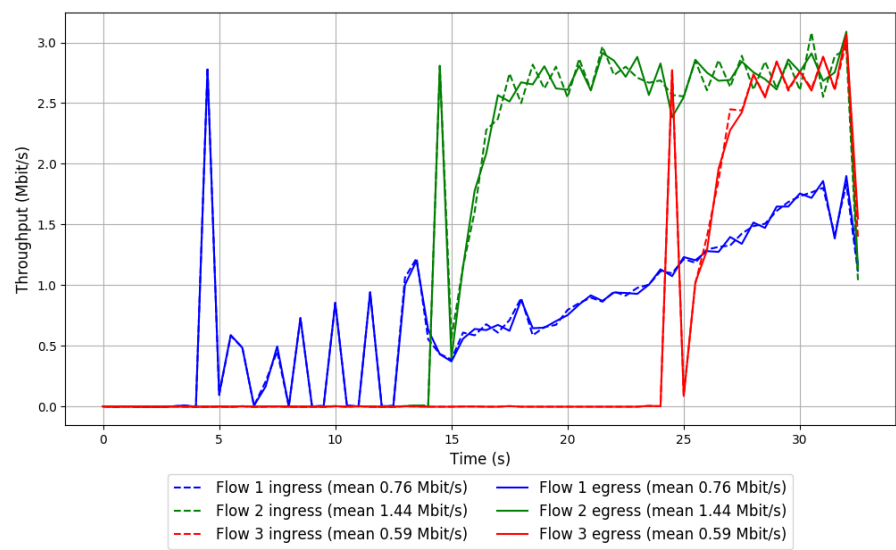


Run 10: Statistics of WebRTC media

Start at: 2017-12-12 02:53:40
End at: 2017-12-12 02:54:10
Local clock offset: 1.451 ms
Remote clock offset: -2.177 ms

Below is generated by plot.py at 2017-12-12 03:43:04
Datalink statistics
-- Total of 3 flows:
Average throughput: 2.78 Mbit/s
95th percentile per-packet one-way delay: 30.673 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.76 Mbit/s
95th percentile per-packet one-way delay: 30.316 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.44 Mbit/s
95th percentile per-packet one-way delay: 30.687 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.59 Mbit/s
95th percentile per-packet one-way delay: 30.750 ms
Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

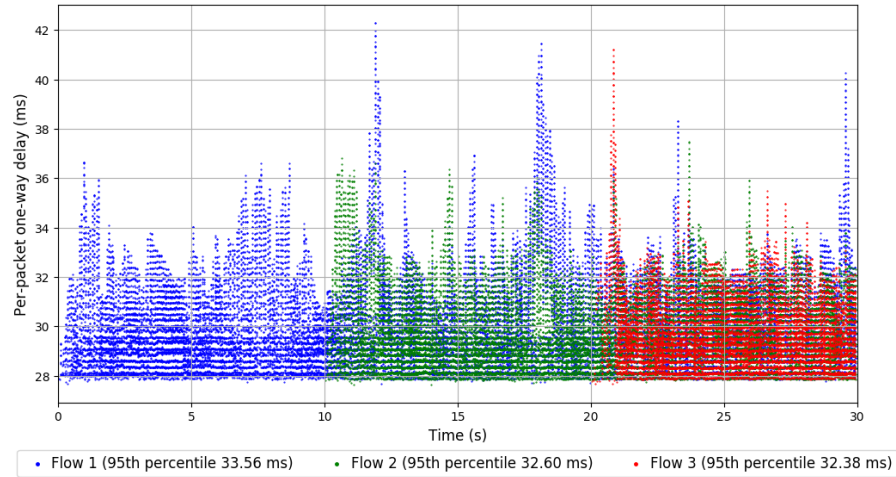
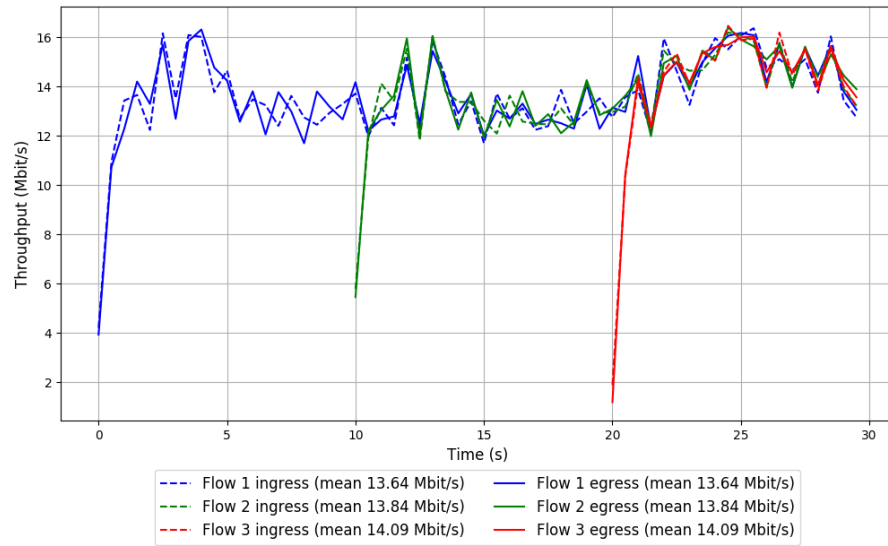


Run 1: Statistics of Sprout

Start at: 2017-12-11 23:40:35
End at: 2017-12-11 23:41:05
Local clock offset: -0.153 ms
Remote clock offset: 0.551 ms

Below is generated by plot.py at 2017-12-12 03:43:04
Datalink statistics
-- Total of 3 flows:
Average throughput: 27.50 Mbit/s
95th percentile per-packet one-way delay: 33.055 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 13.64 Mbit/s
95th percentile per-packet one-way delay: 33.558 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 13.84 Mbit/s
95th percentile per-packet one-way delay: 32.605 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 14.09 Mbit/s
95th percentile per-packet one-way delay: 32.383 ms
Loss rate: 0.00%

Run 1: Report of Sprout — Data Link

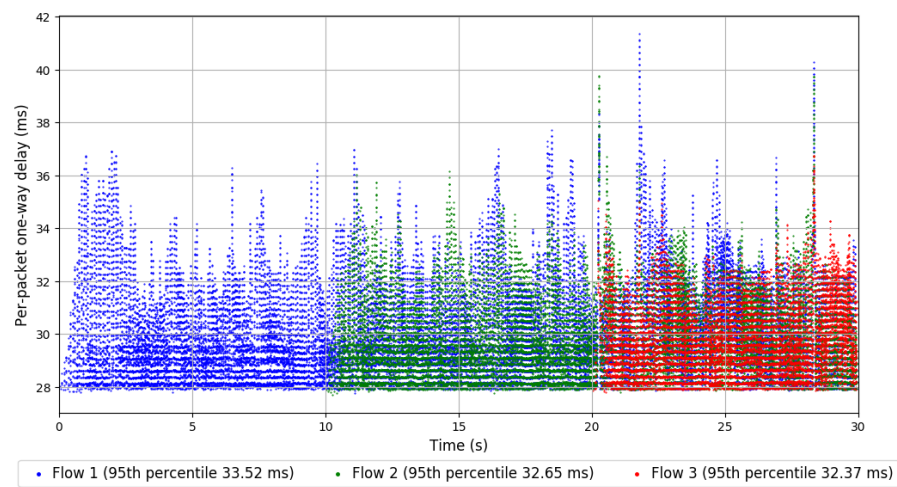
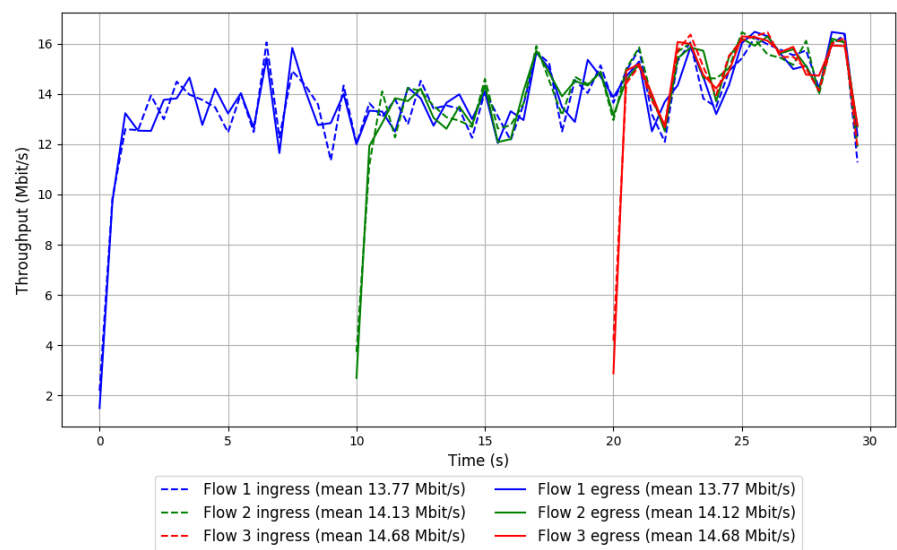


Run 2: Statistics of Sprout

Start at: 2017-12-12 00:03:25
End at: 2017-12-12 00:03:55
Local clock offset: -0.281 ms
Remote clock offset: 0.22 ms

Below is generated by plot.py at 2017-12-12 03:43:04
Datalink statistics
-- Total of 3 flows:
Average throughput: 28.00 Mbit/s
95th percentile per-packet one-way delay: 33.033 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 13.77 Mbit/s
95th percentile per-packet one-way delay: 33.518 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 14.12 Mbit/s
95th percentile per-packet one-way delay: 32.646 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 14.68 Mbit/s
95th percentile per-packet one-way delay: 32.366 ms
Loss rate: 0.00%

Run 2: Report of Sprout — Data Link

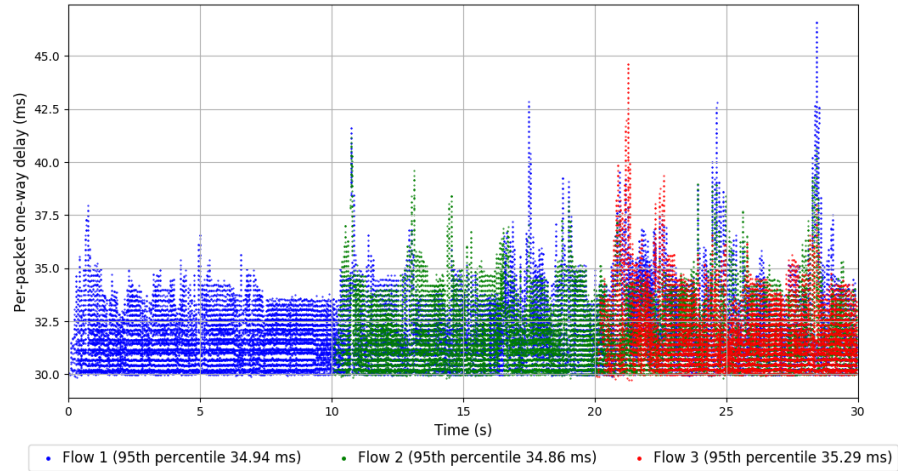
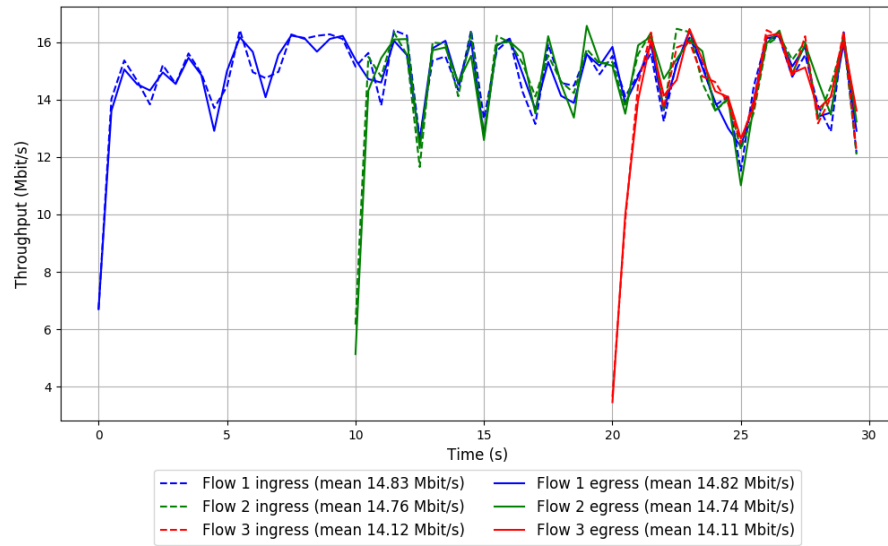


Run 3: Statistics of Sprout

Start at: 2017-12-12 00:25:59
End at: 2017-12-12 00:26:29
Local clock offset: -0.731 ms
Remote clock offset: 1.439 ms

```
# Below is generated by plot.py at 2017-12-12 03:43:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 29.28 Mbit/s
95th percentile per-packet one-way delay: 34.955 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 14.82 Mbit/s
95th percentile per-packet one-way delay: 34.935 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 14.74 Mbit/s
95th percentile per-packet one-way delay: 34.860 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 14.11 Mbit/s
95th percentile per-packet one-way delay: 35.290 ms
Loss rate: 0.03%
```

Run 3: Report of Sprout — Data Link

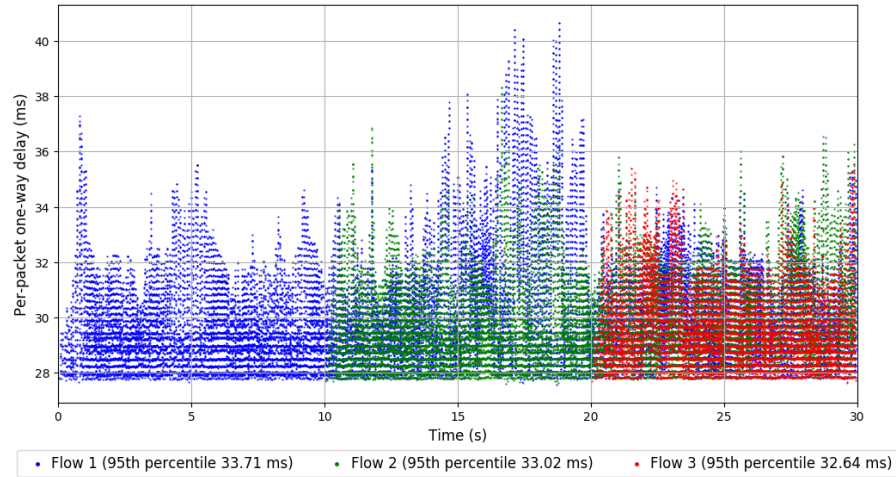
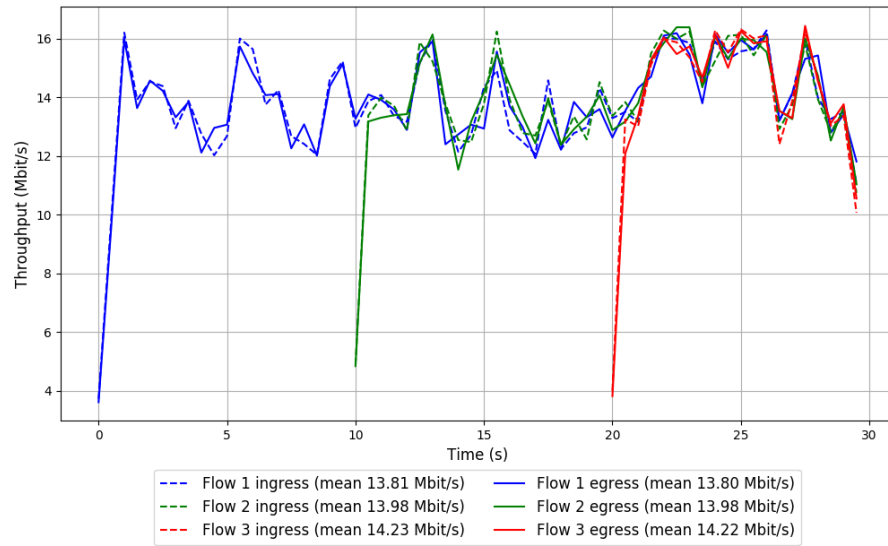


Run 4: Statistics of Sprout

Start at: 2017-12-12 00:48:37
End at: 2017-12-12 00:49:07
Local clock offset: -0.593 ms
Remote clock offset: -2.453 ms

```
# Below is generated by plot.py at 2017-12-12 03:43:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 27.80 Mbit/s
95th percentile per-packet one-way delay: 33.274 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 13.80 Mbit/s
95th percentile per-packet one-way delay: 33.713 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 13.98 Mbit/s
95th percentile per-packet one-way delay: 33.016 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 14.22 Mbit/s
95th percentile per-packet one-way delay: 32.642 ms
Loss rate: 0.06%
```

Run 4: Report of Sprout — Data Link

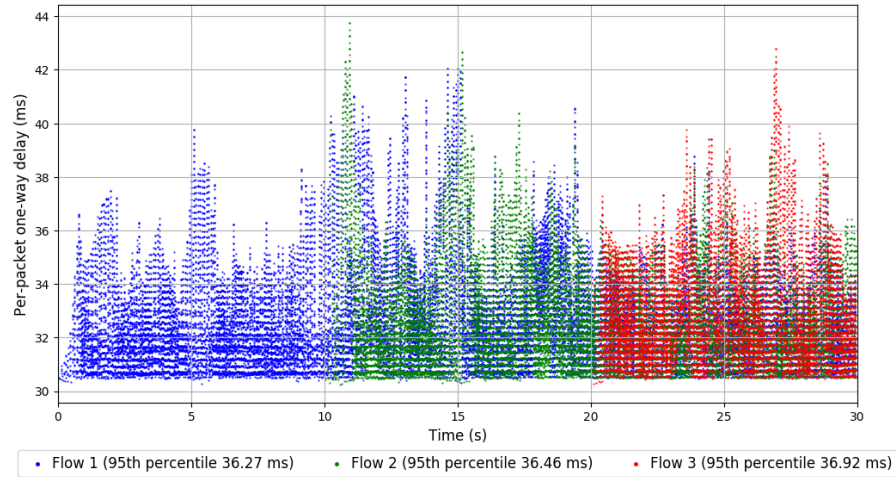
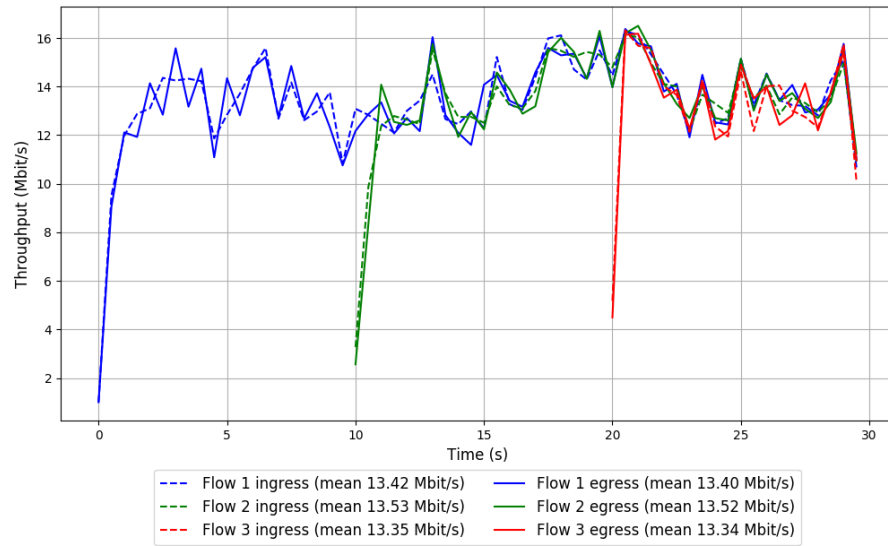


Run 5: Statistics of Sprout

Start at: 2017-12-12 01:12:44
End at: 2017-12-12 01:13:14
Local clock offset: -0.214 ms
Remote clock offset: -1.926 ms

Below is generated by plot.py at 2017-12-12 03:43:04
Datalink statistics
-- Total of 3 flows:
Average throughput: 26.80 Mbit/s
95th percentile per-packet one-way delay: 36.467 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 13.40 Mbit/s
95th percentile per-packet one-way delay: 36.272 ms
Loss rate: 0.15%
-- Flow 2:
Average throughput: 13.52 Mbit/s
95th percentile per-packet one-way delay: 36.459 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 13.34 Mbit/s
95th percentile per-packet one-way delay: 36.923 ms
Loss rate: 0.00%

Run 5: Report of Sprout — Data Link

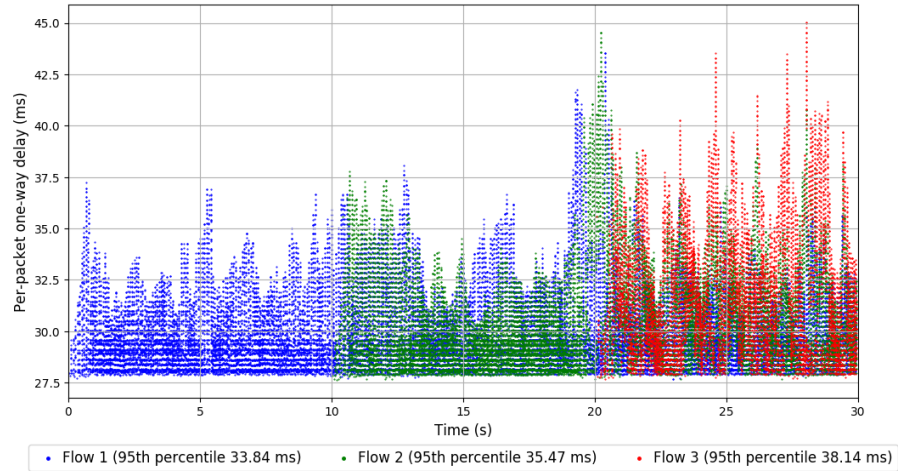
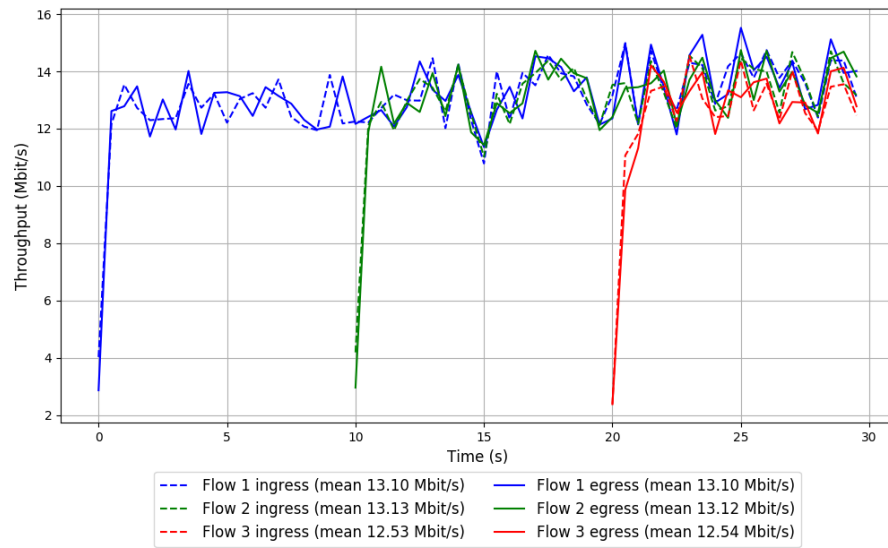


Run 6: Statistics of Sprout

Start at: 2017-12-12 01:37:50
End at: 2017-12-12 01:38:20
Local clock offset: 0.083 ms
Remote clock offset: -5.99 ms

```
# Below is generated by plot.py at 2017-12-12 03:43:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 25.97 Mbit/s
95th percentile per-packet one-way delay: 35.503 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 13.10 Mbit/s
95th percentile per-packet one-way delay: 33.842 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 13.12 Mbit/s
95th percentile per-packet one-way delay: 35.469 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 12.54 Mbit/s
95th percentile per-packet one-way delay: 38.142 ms
Loss rate: 0.00%
```

Run 6: Report of Sprout — Data Link

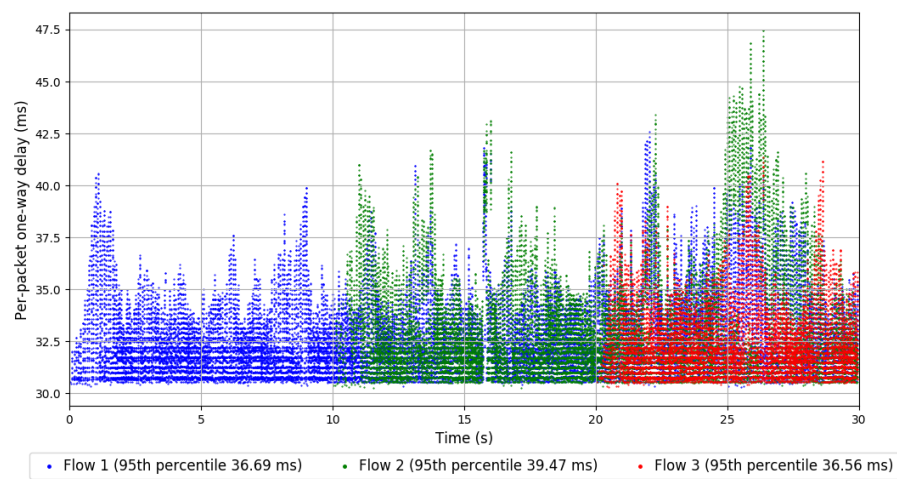
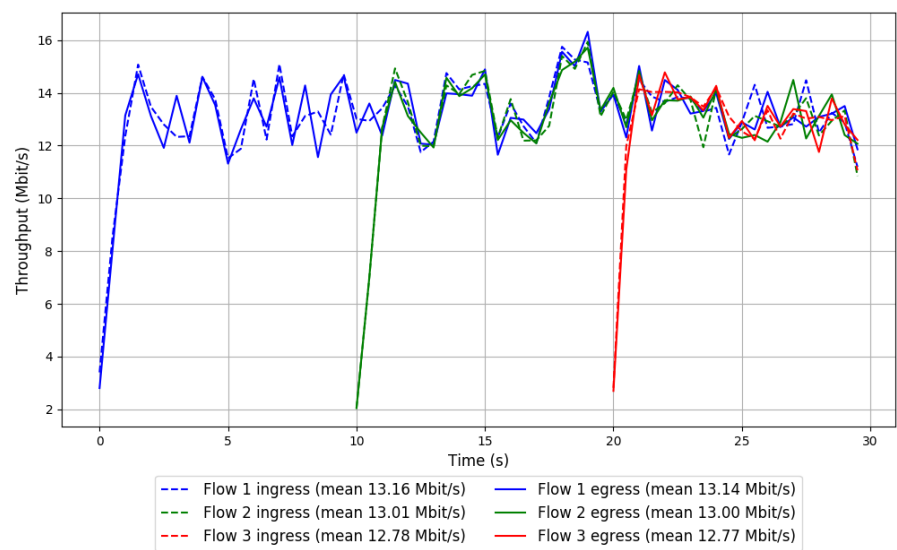


Run 7: Statistics of Sprout

Start at: 2017-12-12 02:02:42
End at: 2017-12-12 02:03:12
Local clock offset: 0.688 ms
Remote clock offset: -2.93 ms

Below is generated by plot.py at 2017-12-12 03:43:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 26.01 Mbit/s
95th percentile per-packet one-way delay: 37.596 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 13.14 Mbit/s
95th percentile per-packet one-way delay: 36.686 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 13.00 Mbit/s
95th percentile per-packet one-way delay: 39.470 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 12.77 Mbit/s
95th percentile per-packet one-way delay: 36.560 ms
Loss rate: 0.00%

Run 7: Report of Sprout — Data Link

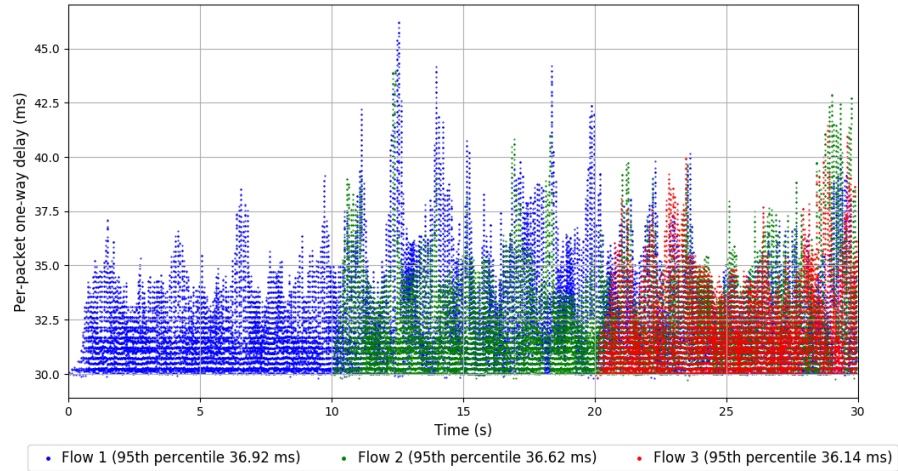
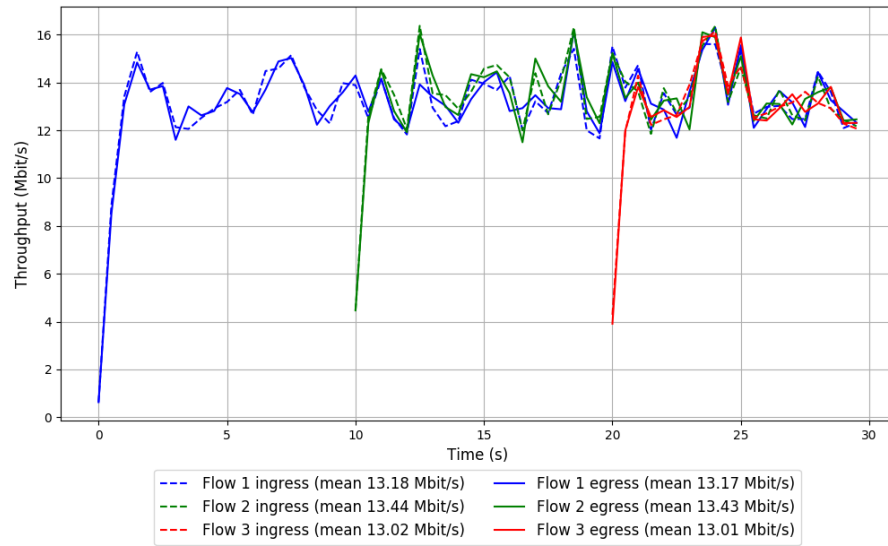


Run 8: Statistics of Sprout

Start at: 2017-12-12 02:27:43
End at: 2017-12-12 02:28:13
Local clock offset: 1.072 ms
Remote clock offset: -2.544 ms

```
# Below is generated by plot.py at 2017-12-12 03:43:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 26.40 Mbit/s
95th percentile per-packet one-way delay: 36.693 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 13.17 Mbit/s
95th percentile per-packet one-way delay: 36.916 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 13.43 Mbit/s
95th percentile per-packet one-way delay: 36.624 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 13.01 Mbit/s
95th percentile per-packet one-way delay: 36.140 ms
Loss rate: 0.00%
```

Run 8: Report of Sprout — Data Link

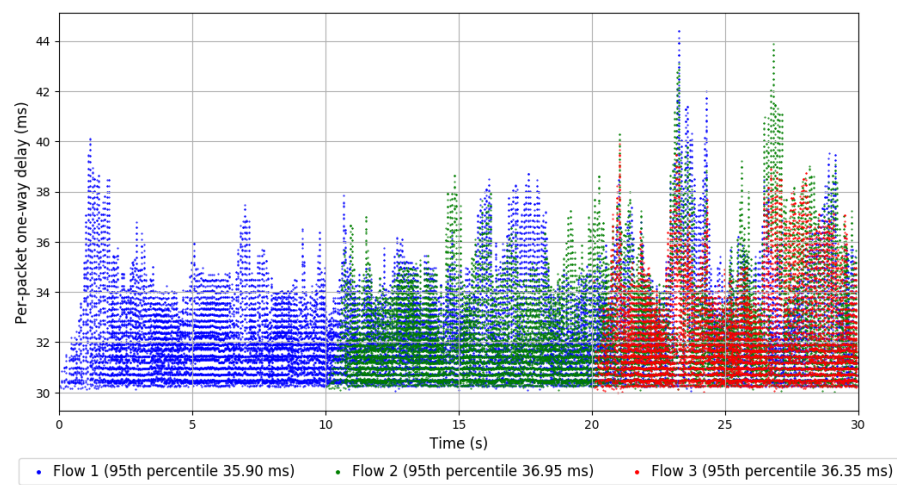
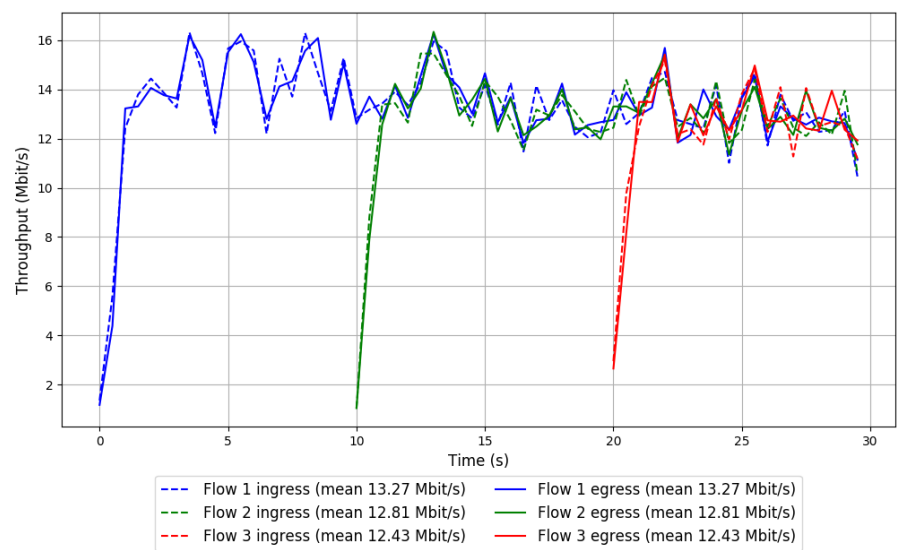


Run 9: Statistics of Sprout

Start at: 2017-12-12 02:52:13
End at: 2017-12-12 02:52:43
Local clock offset: 1.418 ms
Remote clock offset: -1.896 ms

Below is generated by plot.py at 2017-12-12 03:43:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 25.89 Mbit/s
95th percentile per-packet one-way delay: 36.365 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 13.27 Mbit/s
95th percentile per-packet one-way delay: 35.902 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 12.81 Mbit/s
95th percentile per-packet one-way delay: 36.948 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 12.43 Mbit/s
95th percentile per-packet one-way delay: 36.348 ms
Loss rate: 0.00%

Run 9: Report of Sprout — Data Link

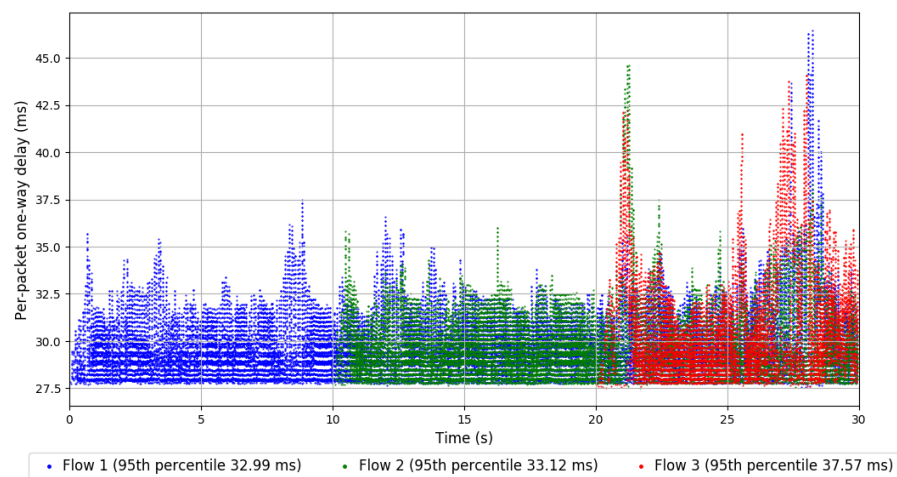
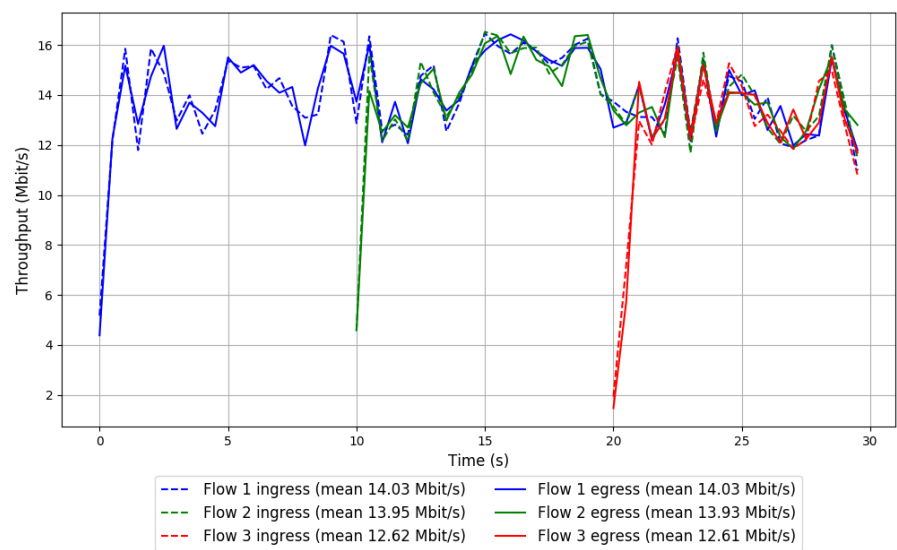


Run 10: Statistics of Sprout

Start at: 2017-12-12 03:16:46
End at: 2017-12-12 03:17:16
Local clock offset: 1.347 ms
Remote clock offset: -4.206 ms

Below is generated by plot.py at 2017-12-12 03:43:24
Datalink statistics
-- Total of 3 flows:
Average throughput: 27.46 Mbit/s
95th percentile per-packet one-way delay: 33.839 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 14.03 Mbit/s
95th percentile per-packet one-way delay: 32.995 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 13.93 Mbit/s
95th percentile per-packet one-way delay: 33.117 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 12.61 Mbit/s
95th percentile per-packet one-way delay: 37.570 ms
Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

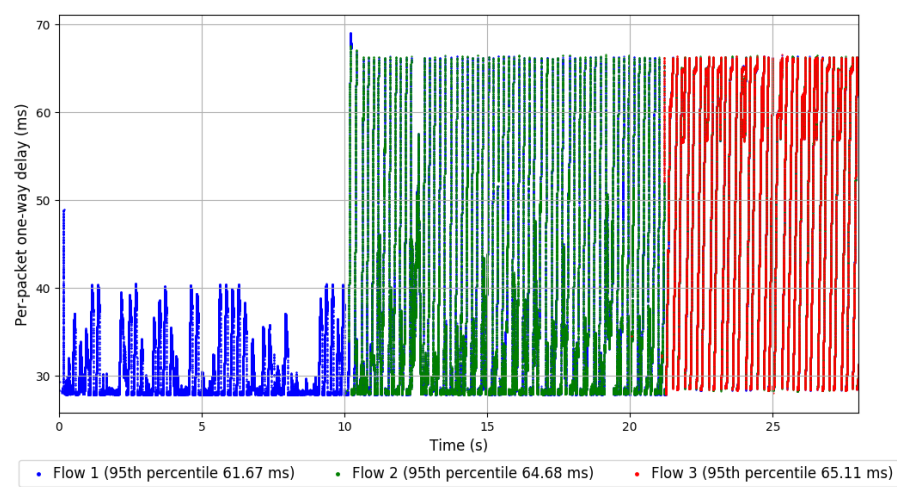
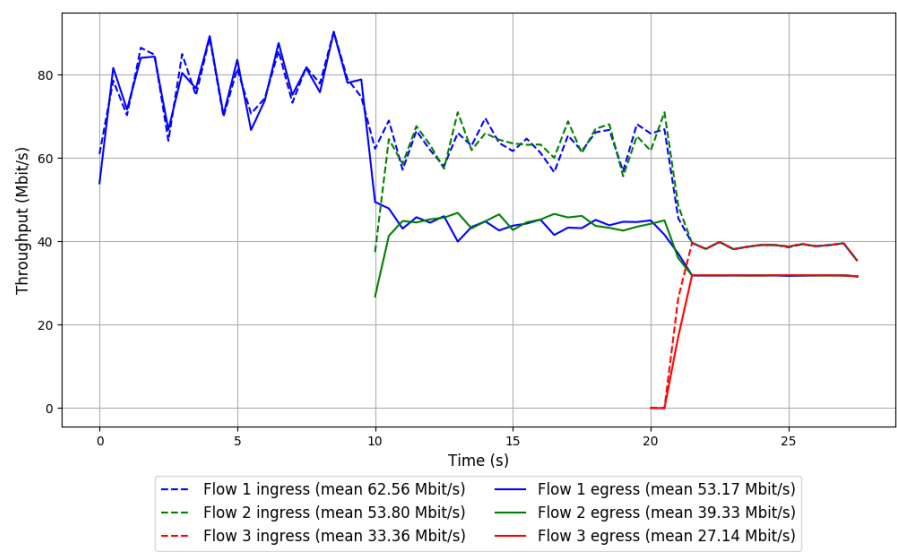


```
Run 1: Statistics of TaoVA-100x

Start at: 2017-12-11 23:21:50
End at: 2017-12-11 23:22:20
Local clock offset: -0.459 ms
Remote clock offset: 0.242 ms

# Below is generated by plot.py at 2017-12-12 03:45:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.12 Mbit/s
95th percentile per-packet one-way delay: 64.285 ms
Loss rate: 19.20%
-- Flow 1:
Average throughput: 53.17 Mbit/s
95th percentile per-packet one-way delay: 61.672 ms
Loss rate: 15.02%
-- Flow 2:
Average throughput: 39.33 Mbit/s
95th percentile per-packet one-way delay: 64.684 ms
Loss rate: 26.90%
-- Flow 3:
Average throughput: 27.14 Mbit/s
95th percentile per-packet one-way delay: 65.108 ms
Loss rate: 18.69%
```

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



Run 2: Statistics of TaoVA-100x

Start at: 2017-12-11 23:43:19

End at: 2017-12-11 23:43:49

Local clock offset: -0.088 ms

Remote clock offset: 0.45 ms

Below is generated by plot.py at 2017-12-12 03:45:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.75 Mbit/s

95th percentile per-packet one-way delay: 63.183 ms

Loss rate: 17.30%

-- Flow 1:

Average throughput: 53.80 Mbit/s

95th percentile per-packet one-way delay: 60.453 ms

Loss rate: 13.19%

-- Flow 2:

Average throughput: 39.32 Mbit/s

95th percentile per-packet one-way delay: 63.753 ms

Loss rate: 24.47%

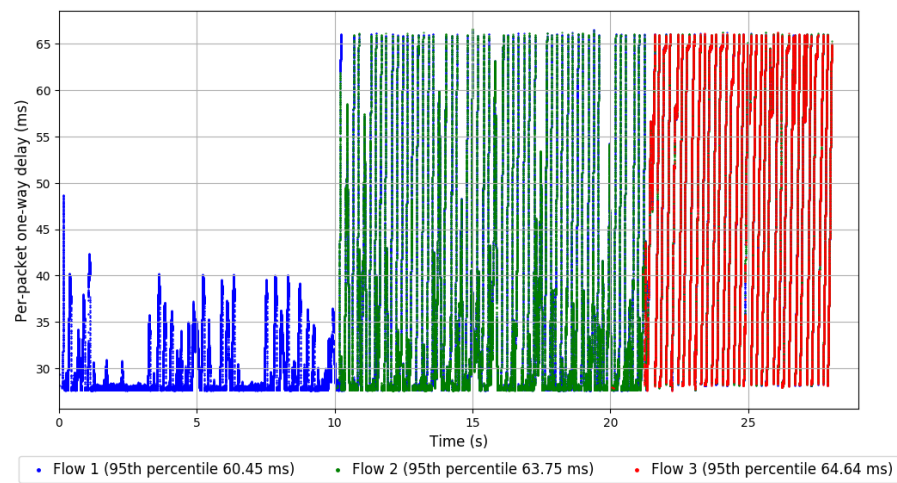
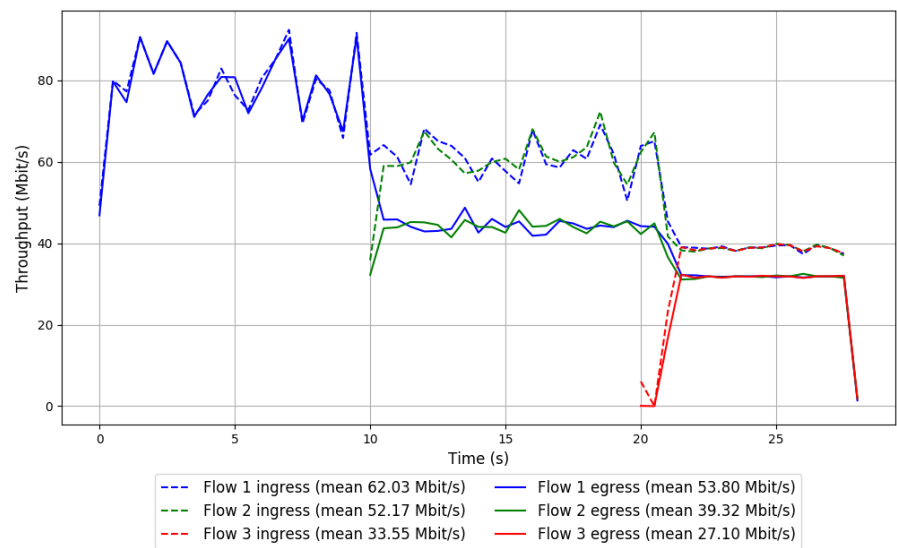
-- Flow 3:

Average throughput: 27.10 Mbit/s

95th percentile per-packet one-way delay: 64.641 ms

Loss rate: 18.86%

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



Run 3: Statistics of TaoVA-100x

Start at: 2017-12-12 00:06:08

End at: 2017-12-12 00:06:38

Local clock offset: -0.317 ms

Remote clock offset: 2.099 ms

Below is generated by plot.py at 2017-12-12 03:45:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.05 Mbit/s

95th percentile per-packet one-way delay: 65.021 ms

Loss rate: 17.29%

-- Flow 1:

Average throughput: 52.26 Mbit/s

95th percentile per-packet one-way delay: 63.077 ms

Loss rate: 13.28%

-- Flow 2:

Average throughput: 38.84 Mbit/s

95th percentile per-packet one-way delay: 65.725 ms

Loss rate: 24.24%

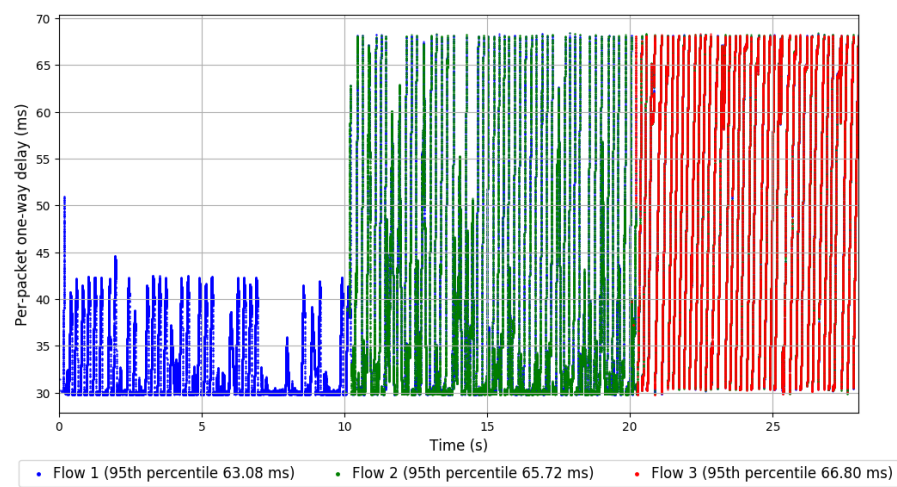
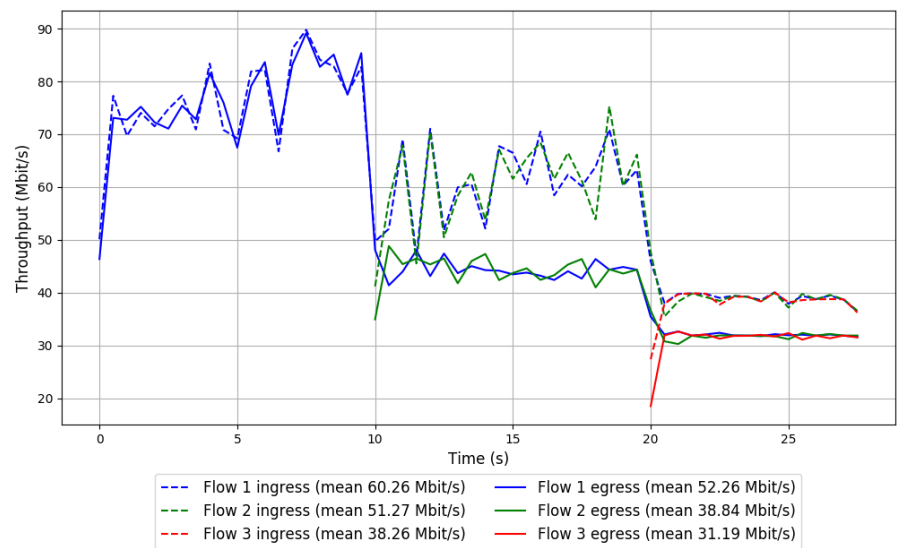
-- Flow 3:

Average throughput: 31.19 Mbit/s

95th percentile per-packet one-way delay: 66.804 ms

Loss rate: 18.55%

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



Run 4: Statistics of TaoVA-100x

Start at: 2017-12-12 00:28:40

End at: 2017-12-12 00:29:10

Local clock offset: -0.707 ms

Remote clock offset: 1.235 ms

Below is generated by plot.py at 2017-12-12 03:45:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.23 Mbit/s

95th percentile per-packet one-way delay: 66.060 ms

Loss rate: 18.21%

-- Flow 1:

Average throughput: 51.56 Mbit/s

95th percentile per-packet one-way delay: 62.867 ms

Loss rate: 13.59%

-- Flow 2:

Average throughput: 39.35 Mbit/s

95th percentile per-packet one-way delay: 66.540 ms

Loss rate: 26.20%

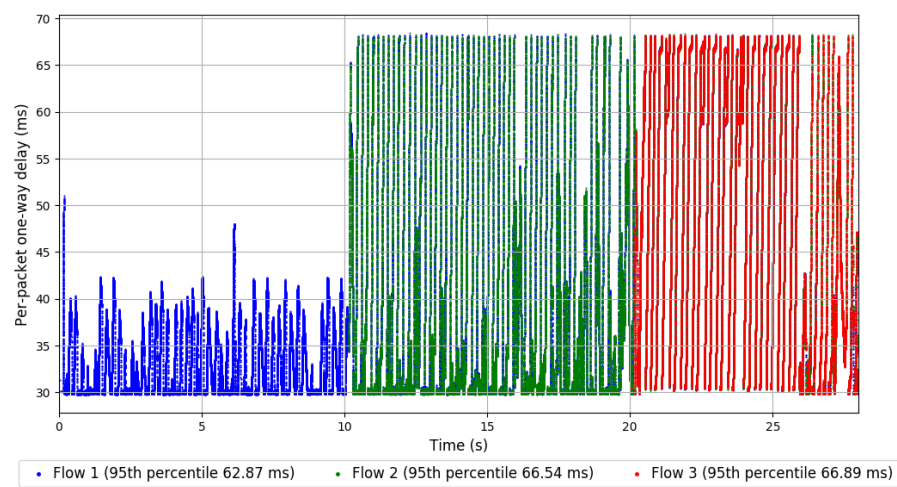
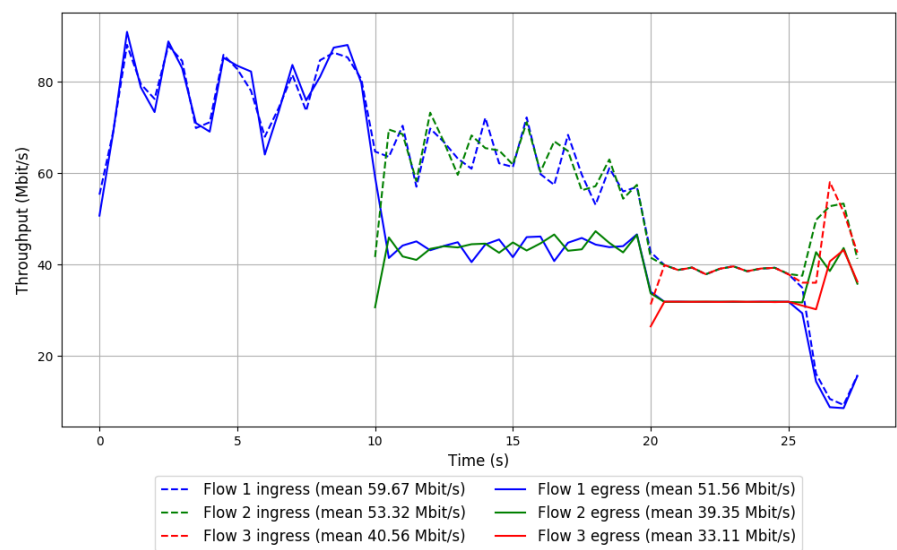
-- Flow 3:

Average throughput: 33.11 Mbit/s

95th percentile per-packet one-way delay: 66.887 ms

Loss rate: 18.38%

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

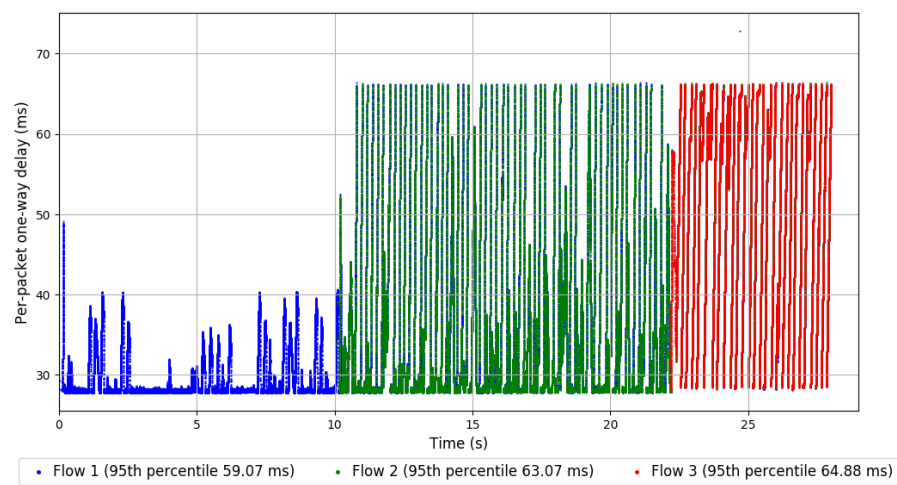
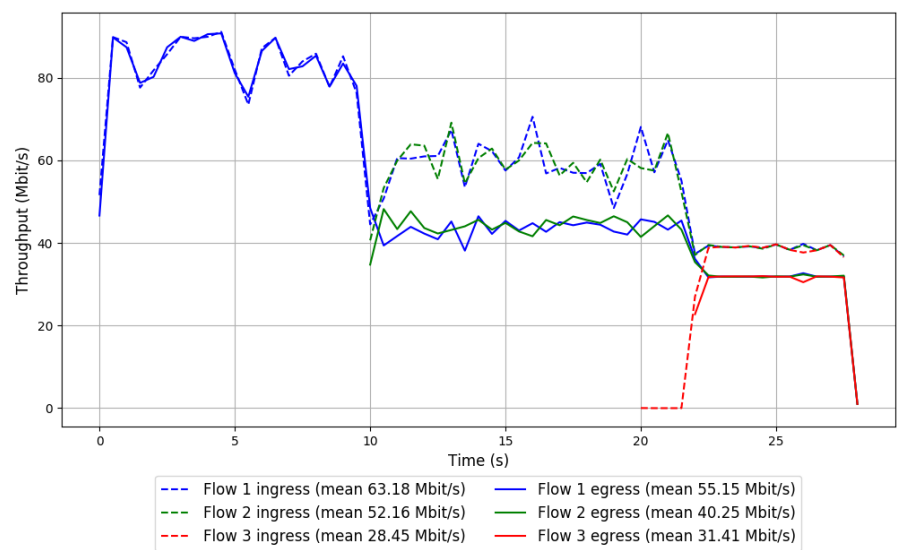


Run 5: Statistics of TaoVA-100x

Start at: 2017-12-12 00:51:23
End at: 2017-12-12 00:51:53
Local clock offset: -0.552 ms
Remote clock offset: -2.655 ms

Below is generated by plot.py at 2017-12-12 03:45:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 87.63 Mbit/s
95th percentile per-packet one-way delay: 61.955 ms
Loss rate: 16.25%
-- Flow 1:
Average throughput: 55.15 Mbit/s
95th percentile per-packet one-way delay: 59.070 ms
Loss rate: 12.64%
-- Flow 2:
Average throughput: 40.25 Mbit/s
95th percentile per-packet one-way delay: 63.073 ms
Loss rate: 22.76%
-- Flow 3:
Average throughput: 31.41 Mbit/s
95th percentile per-packet one-way delay: 64.884 ms
Loss rate: 17.52%

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

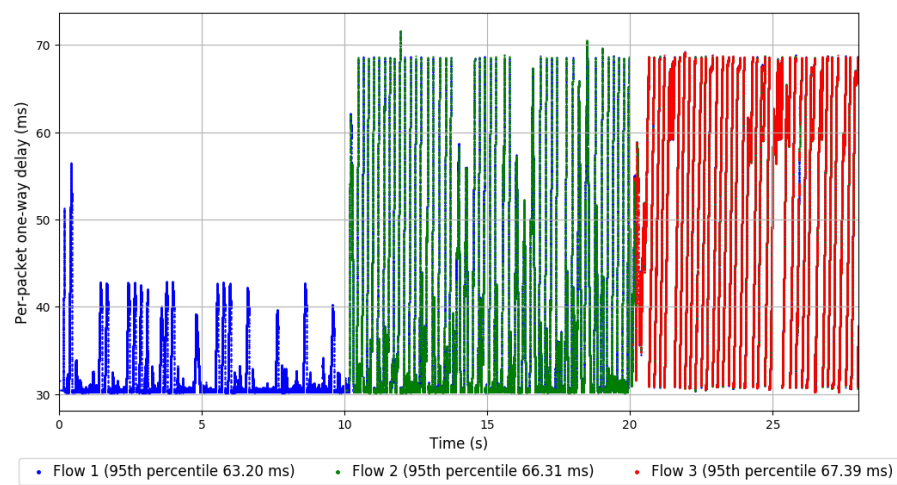
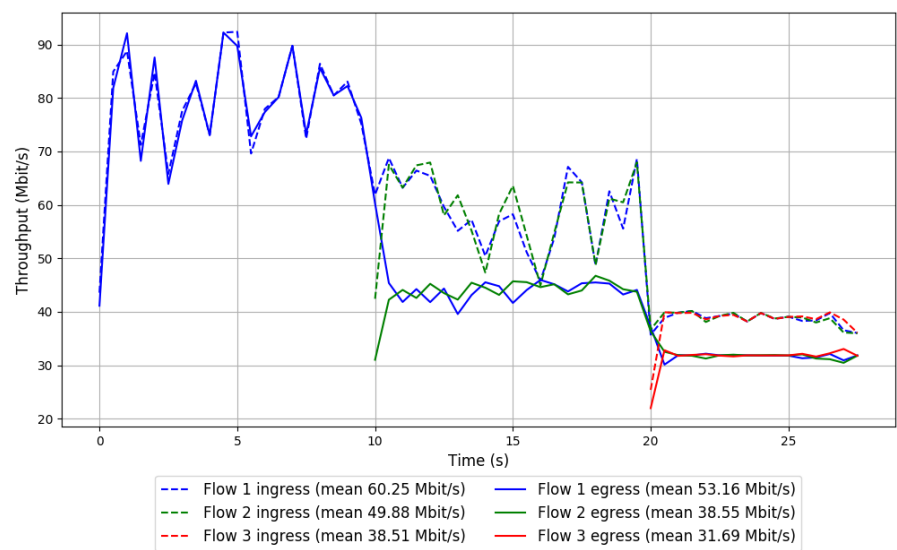


Run 6: Statistics of TaoVA-100x

Start at: 2017-12-12 01:15:32
End at: 2017-12-12 01:16:02
Local clock offset: -0.055 ms
Remote clock offset: -2.241 ms

Below is generated by plot.py at 2017-12-12 03:45:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 86.89 Mbit/s
95th percentile per-packet one-way delay: 65.688 ms
Loss rate: 15.77%
-- Flow 1:
Average throughput: 53.16 Mbit/s
95th percentile per-packet one-way delay: 63.203 ms
Loss rate: 11.75%
-- Flow 2:
Average throughput: 38.55 Mbit/s
95th percentile per-packet one-way delay: 66.313 ms
Loss rate: 22.68%
-- Flow 3:
Average throughput: 31.69 Mbit/s
95th percentile per-packet one-way delay: 67.391 ms
Loss rate: 17.68%

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

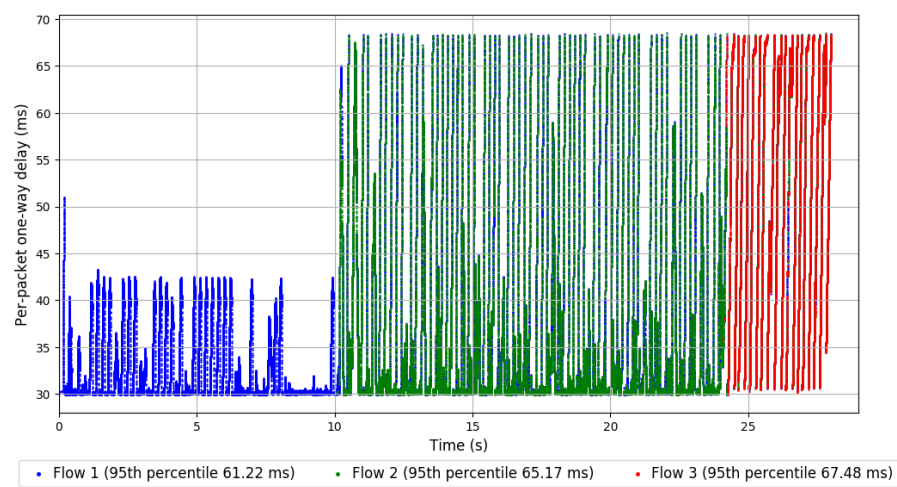
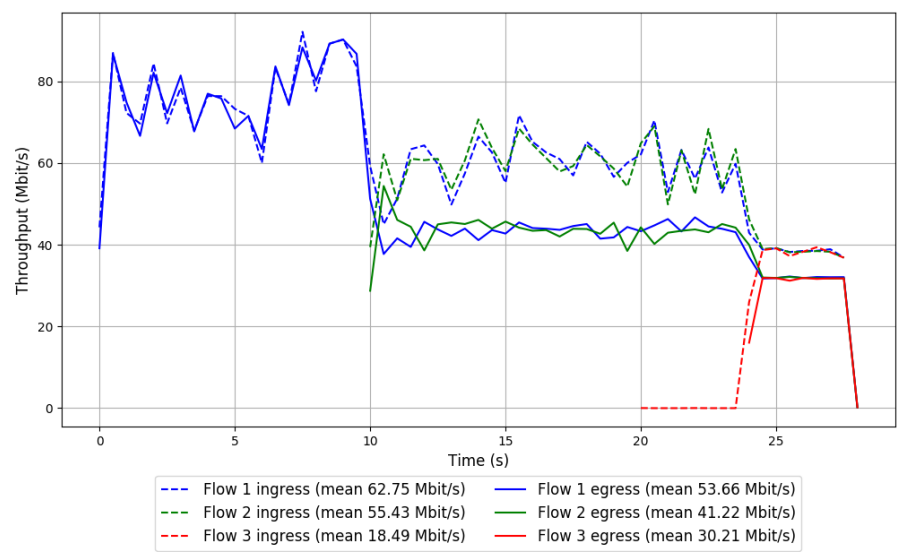


Run 7: Statistics of TaoVA-100x

Start at: 2017-12-12 01:40:37
End at: 2017-12-12 01:41:07
Local clock offset: 0.099 ms
Remote clock offset: -4.029 ms

Below is generated by plot.py at 2017-12-12 03:45:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 84.38 Mbit/s
95th percentile per-packet one-way delay: 64.115 ms
Loss rate: 18.51%
-- Flow 1:
Average throughput: 53.66 Mbit/s
95th percentile per-packet one-way delay: 61.222 ms
Loss rate: 14.45%
-- Flow 2:
Average throughput: 41.22 Mbit/s
95th percentile per-packet one-way delay: 65.170 ms
Loss rate: 25.61%
-- Flow 3:
Average throughput: 30.21 Mbit/s
95th percentile per-packet one-way delay: 67.480 ms
Loss rate: 18.94%

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

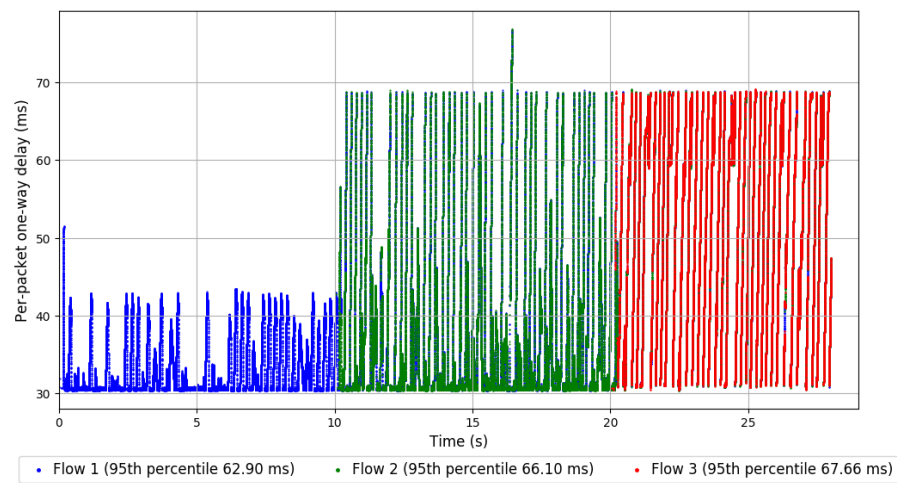
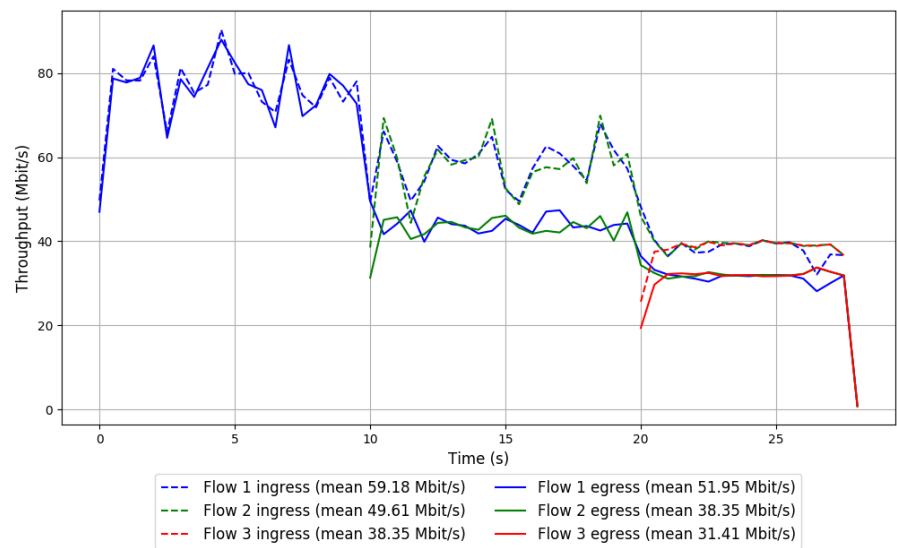


Run 8: Statistics of TaoVA-100x

Start at: 2017-12-12 02:05:32
End at: 2017-12-12 02:06:02
Local clock offset: 0.756 ms
Remote clock offset: -2.935 ms

Below is generated by plot.py at 2017-12-12 03:45:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 85.50 Mbit/s
95th percentile per-packet one-way delay: 65.168 ms
Loss rate: 16.06%
-- Flow 1:
Average throughput: 51.95 Mbit/s
95th percentile per-packet one-way delay: 62.895 ms
Loss rate: 12.16%
-- Flow 2:
Average throughput: 38.35 Mbit/s
95th percentile per-packet one-way delay: 66.099 ms
Loss rate: 22.68%
-- Flow 3:
Average throughput: 31.41 Mbit/s
95th percentile per-packet one-way delay: 67.657 ms
Loss rate: 17.94%

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

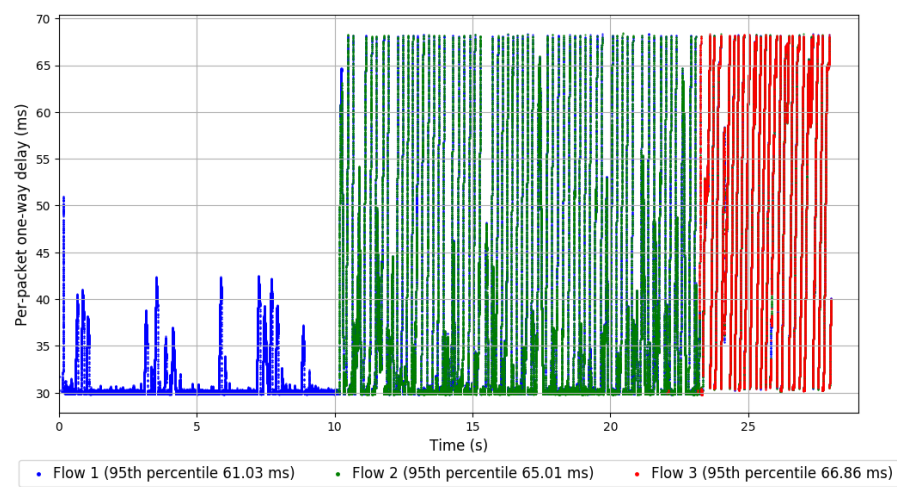
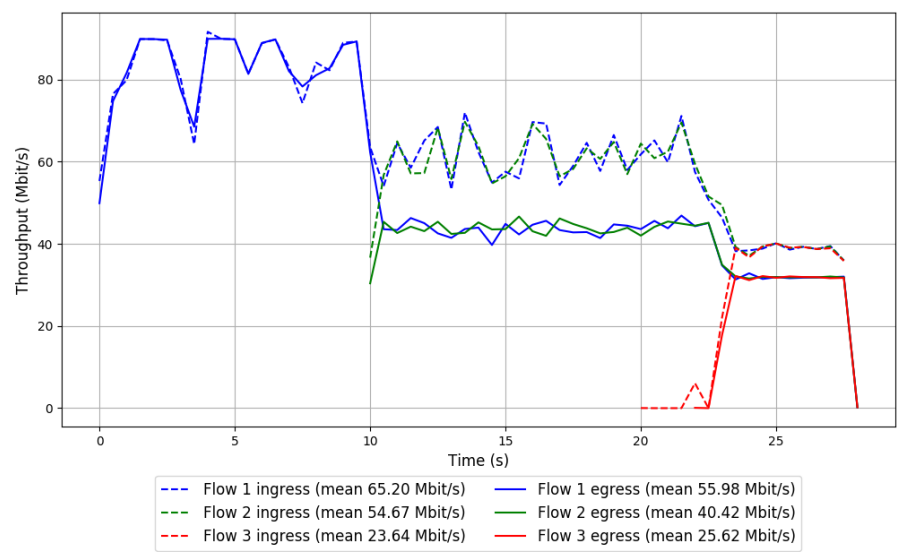


Run 9: Statistics of TaoVA-100x

Start at: 2017-12-12 02:30:22
End at: 2017-12-12 02:30:52
Local clock offset: 1.243 ms
Remote clock offset: -2.496 ms

Below is generated by plot.py at 2017-12-12 03:47:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 87.37 Mbit/s
95th percentile per-packet one-way delay: 64.229 ms
Loss rate: 18.32%
-- Flow 1:
Average throughput: 55.98 Mbit/s
95th percentile per-packet one-way delay: 61.028 ms
Loss rate: 14.13%
-- Flow 2:
Average throughput: 40.42 Mbit/s
95th percentile per-packet one-way delay: 65.010 ms
Loss rate: 26.03%
-- Flow 3:
Average throughput: 25.62 Mbit/s
95th percentile per-packet one-way delay: 66.859 ms
Loss rate: 18.83%

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

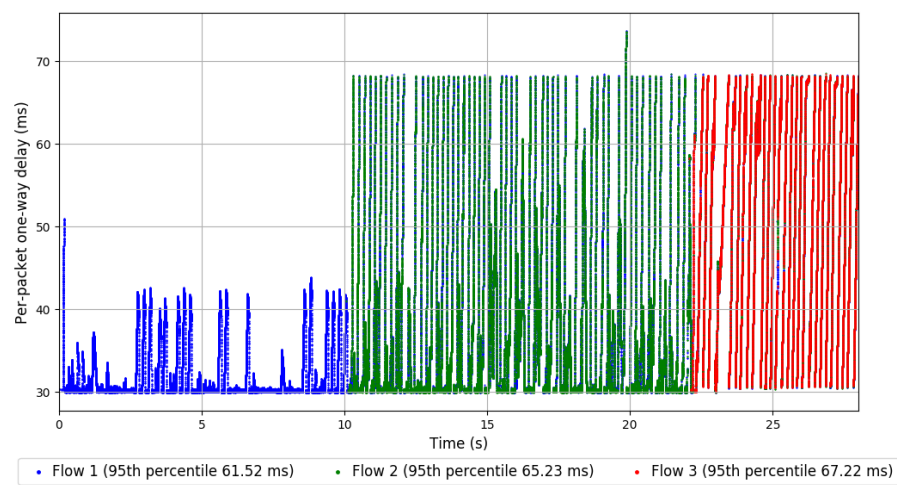
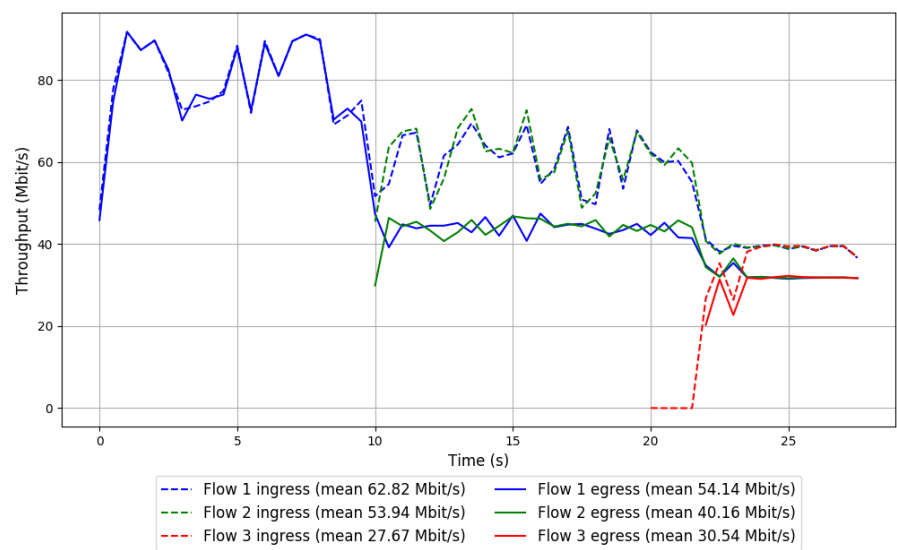


Run 10: Statistics of TaoVA-100x

Start at: 2017-12-12 02:54:59
End at: 2017-12-12 02:55:29
Local clock offset: 1.361 ms
Remote clock offset: -2.234 ms

Below is generated by plot.py at 2017-12-12 03:47:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 86.37 Mbit/s
95th percentile per-packet one-way delay: 64.268 ms
Loss rate: 17.98%
-- Flow 1:
Average throughput: 54.14 Mbit/s
95th percentile per-packet one-way delay: 61.517 ms
Loss rate: 13.81%
-- Flow 2:
Average throughput: 40.16 Mbit/s
95th percentile per-packet one-way delay: 65.231 ms
Loss rate: 25.58%
-- Flow 3:
Average throughput: 30.54 Mbit/s
95th percentile per-packet one-way delay: 67.216 ms
Loss rate: 17.82%

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



Run 1: Statistics of TCP Vegas

Start at: 2017-12-11 23:34:11

End at: 2017-12-11 23:34:41

Local clock offset: -0.343 ms

Remote clock offset: 2.868 ms

Below is generated by plot.py at 2017-12-12 03:47:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 75.08 Mbit/s

95th percentile per-packet one-way delay: 51.226 ms

Loss rate: 0.65%

-- Flow 1:

Average throughput: 47.08 Mbit/s

95th percentile per-packet one-way delay: 51.805 ms

Loss rate: 0.64%

-- Flow 2:

Average throughput: 14.57 Mbit/s

95th percentile per-packet one-way delay: 33.587 ms

Loss rate: 0.41%

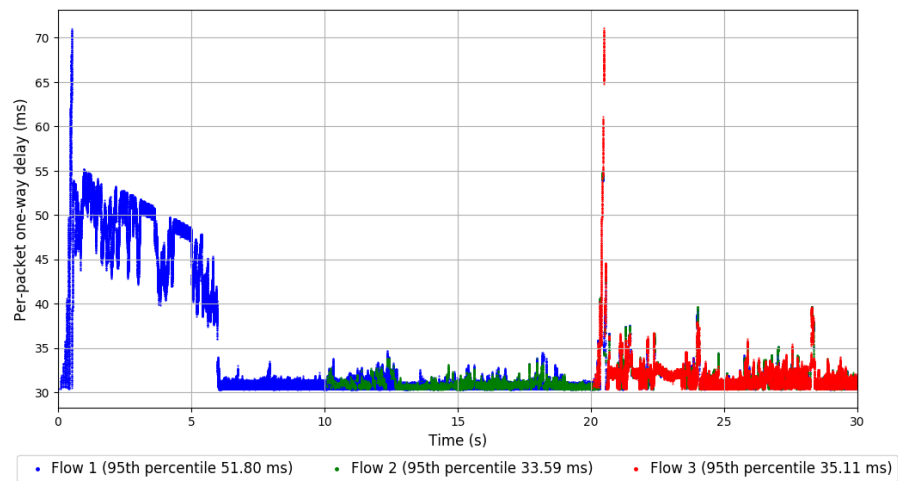
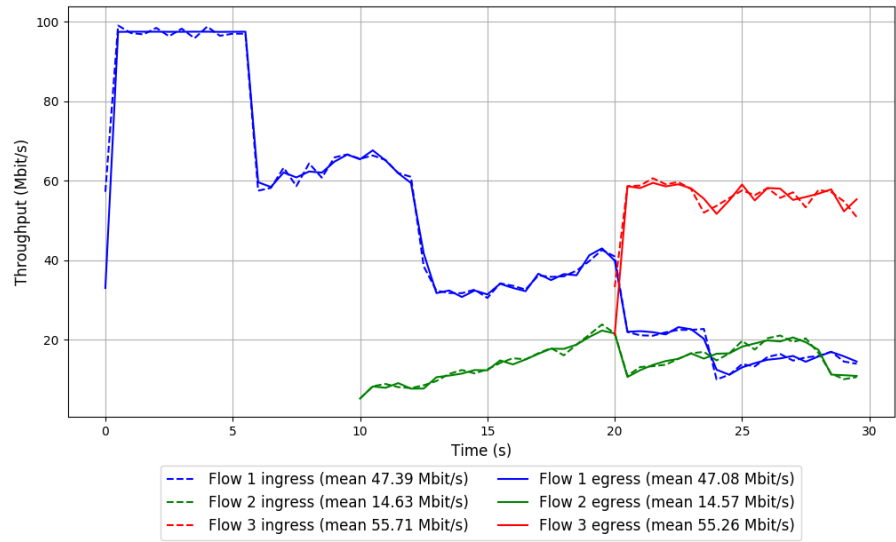
-- Flow 3:

Average throughput: 55.26 Mbit/s

95th percentile per-packet one-way delay: 35.114 ms

Loss rate: 0.81%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2017-12-11 23:57:06

End at: 2017-12-11 23:57:36

Local clock offset: -0.186 ms

Remote clock offset: 2.467 ms

Below is generated by plot.py at 2017-12-12 03:47:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 45.53 Mbit/s

95th percentile per-packet one-way delay: 40.207 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 16.25 Mbit/s

95th percentile per-packet one-way delay: 36.158 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 17.65 Mbit/s

95th percentile per-packet one-way delay: 39.565 ms

Loss rate: 0.00%

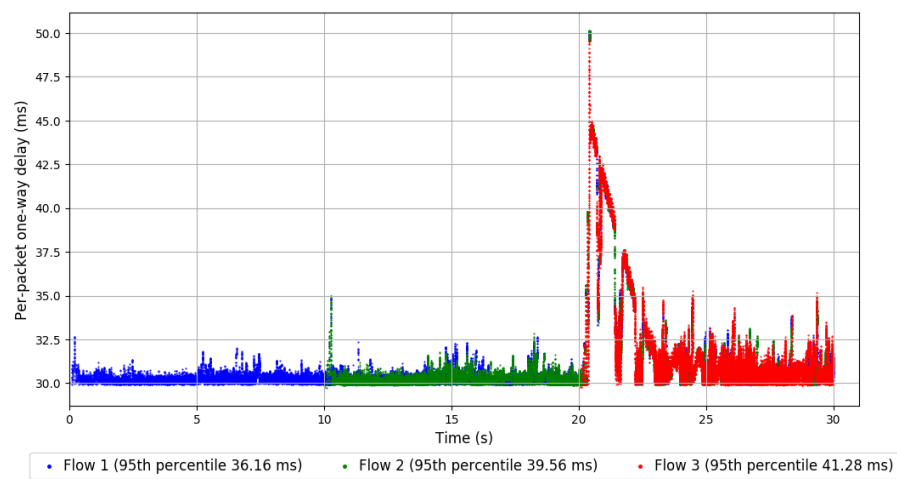
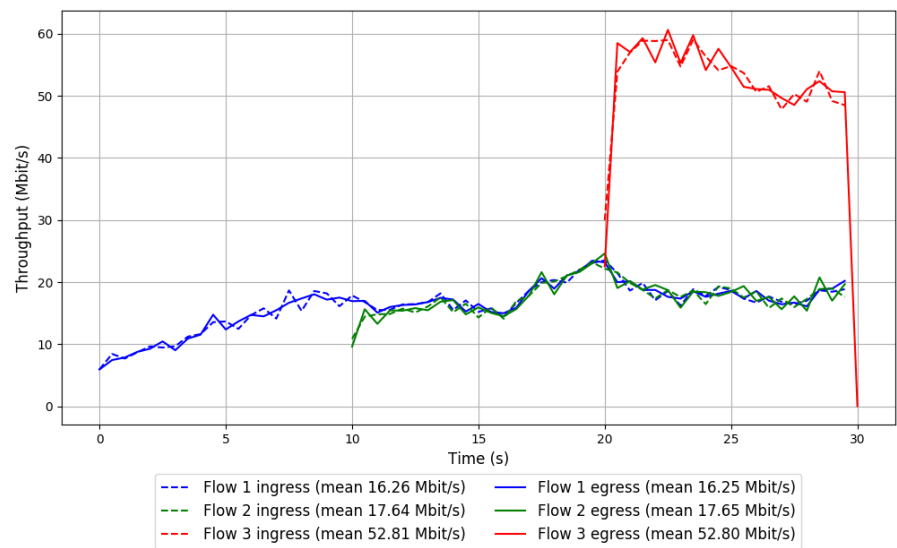
-- Flow 3:

Average throughput: 52.80 Mbit/s

95th percentile per-packet one-way delay: 41.281 ms

Loss rate: 0.00%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2017-12-12 00:19:30

End at: 2017-12-12 00:20:00

Local clock offset: -0.612 ms

Remote clock offset: 2.143 ms

Below is generated by plot.py at 2017-12-12 03:47:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 71.98 Mbit/s

95th percentile per-packet one-way delay: 55.354 ms

Loss rate: 0.42%

-- Flow 1:

Average throughput: 10.65 Mbit/s

95th percentile per-packet one-way delay: 54.610 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 86.86 Mbit/s

95th percentile per-packet one-way delay: 55.857 ms

Loss rate: 0.45%

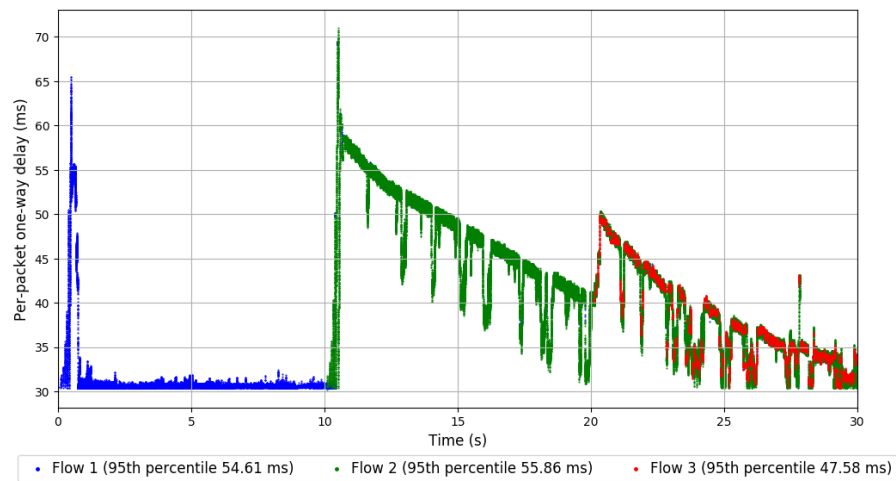
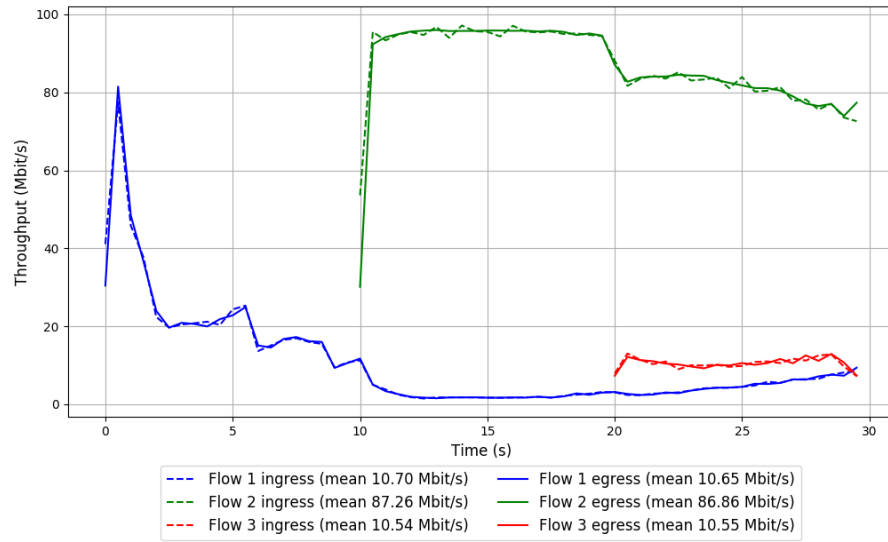
-- Flow 3:

Average throughput: 10.55 Mbit/s

95th percentile per-packet one-way delay: 47.576 ms

Loss rate: 0.06%

Run 3: Report of TCP Vegas — Data Link

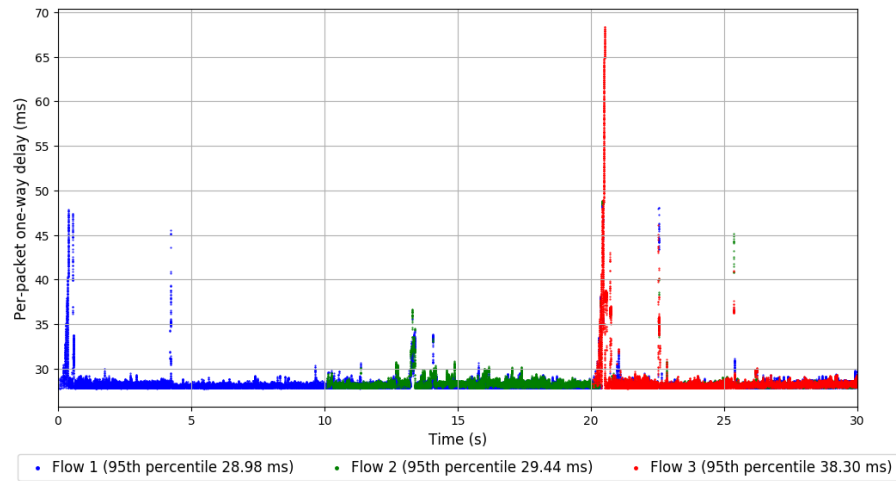
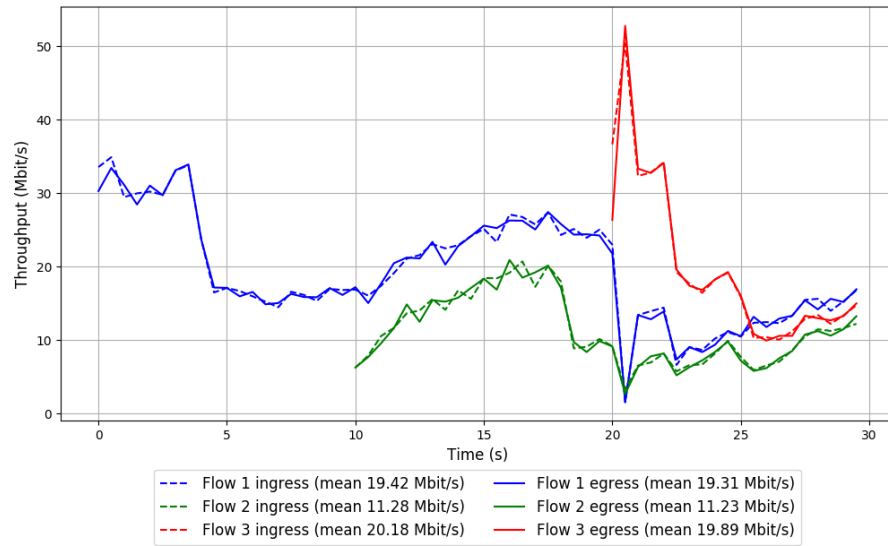


Run 4: Statistics of TCP Vegas

Start at: 2017-12-12 00:42:20
End at: 2017-12-12 00:42:50
Local clock offset: -0.793 ms
Remote clock offset: -1.651 ms

Below is generated by plot.py at 2017-12-12 03:47:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 33.39 Mbit/s
95th percentile per-packet one-way delay: 29.886 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 19.31 Mbit/s
95th percentile per-packet one-way delay: 28.978 ms
Loss rate: 0.53%
-- Flow 2:
Average throughput: 11.23 Mbit/s
95th percentile per-packet one-way delay: 29.440 ms
Loss rate: 0.41%
-- Flow 3:
Average throughput: 19.89 Mbit/s
95th percentile per-packet one-way delay: 38.297 ms
Loss rate: 1.44%

Run 4: Report of TCP Vegas — Data Link

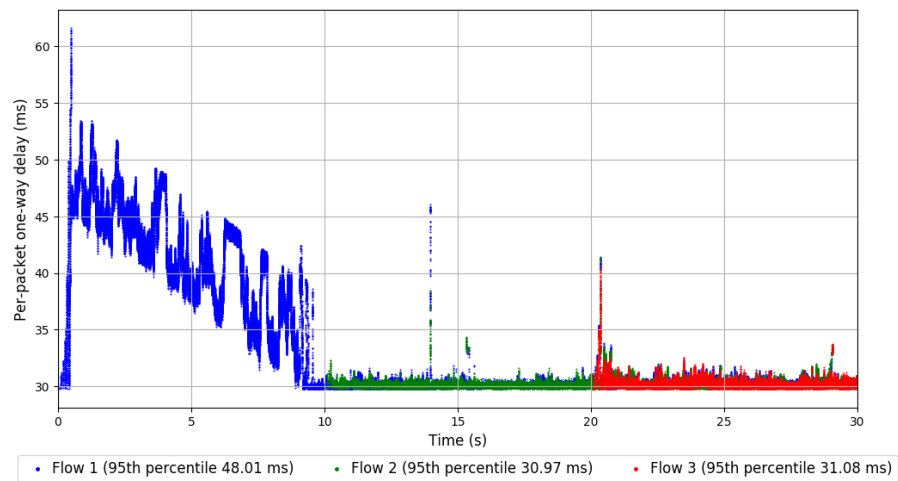
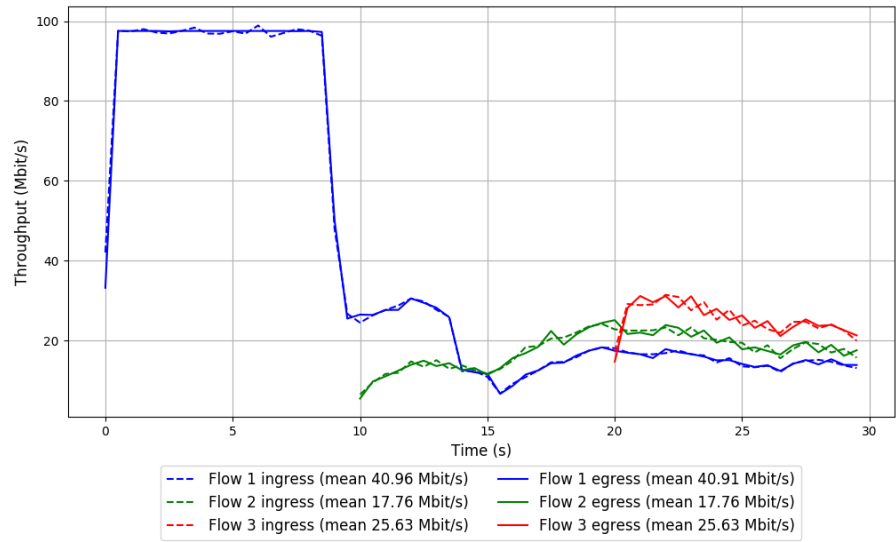


Run 5: Statistics of TCP Vegas

Start at: 2017-12-12 01:05:44
End at: 2017-12-12 01:06:14
Local clock offset: -0.245 ms
Remote clock offset: -1.983 ms

Below is generated by plot.py at 2017-12-12 03:47:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 61.23 Mbit/s
95th percentile per-packet one-way delay: 47.353 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 40.91 Mbit/s
95th percentile per-packet one-way delay: 48.010 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 17.76 Mbit/s
95th percentile per-packet one-way delay: 30.974 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 25.63 Mbit/s
95th percentile per-packet one-way delay: 31.082 ms
Loss rate: 0.00%

Run 5: Report of TCP Vegas — Data Link

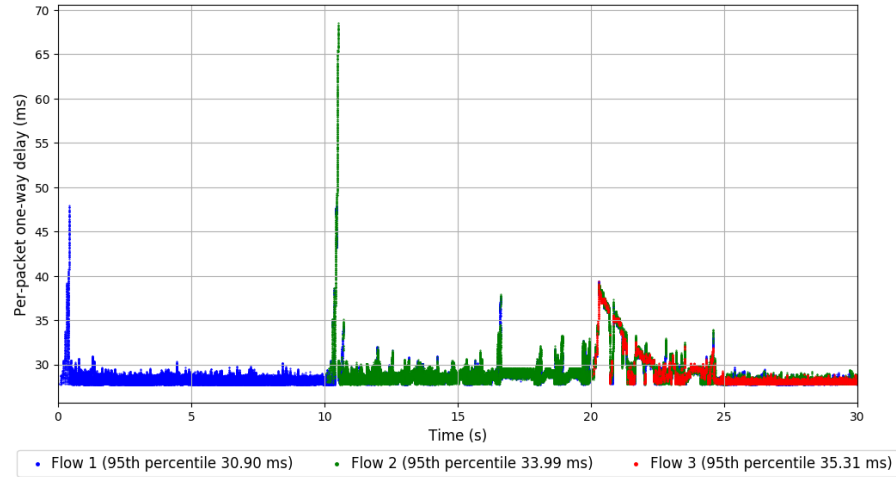
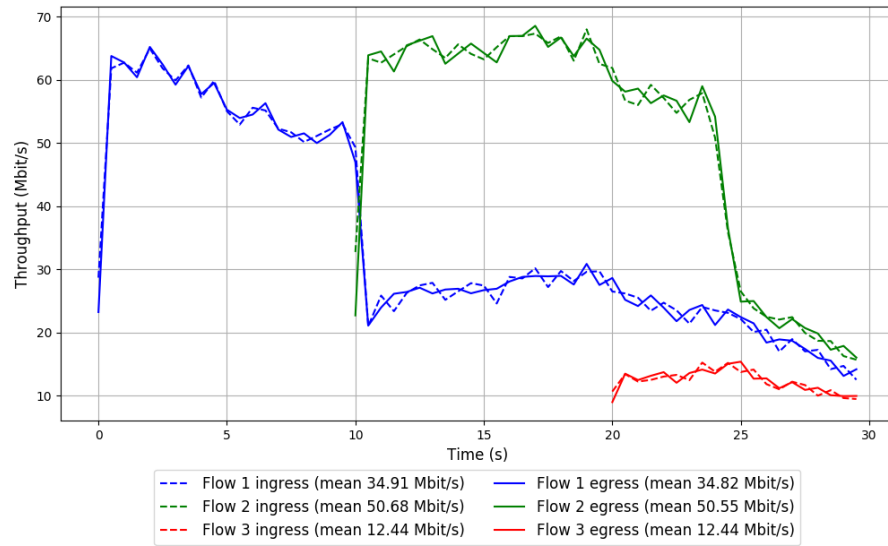


Run 6: Statistics of TCP Vegas

Start at: 2017-12-12 01:30:25
End at: 2017-12-12 01:30:55
Local clock offset: 0.122 ms
Remote clock offset: -5.608 ms

Below is generated by plot.py at 2017-12-12 03:47:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 72.60 Mbit/s
95th percentile per-packet one-way delay: 32.911 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 34.82 Mbit/s
95th percentile per-packet one-way delay: 30.902 ms
Loss rate: 0.24%
-- Flow 2:
Average throughput: 50.55 Mbit/s
95th percentile per-packet one-way delay: 33.994 ms
Loss rate: 0.27%
-- Flow 3:
Average throughput: 12.44 Mbit/s
95th percentile per-packet one-way delay: 35.309 ms
Loss rate: 0.00%

Run 6: Report of TCP Vegas — Data Link

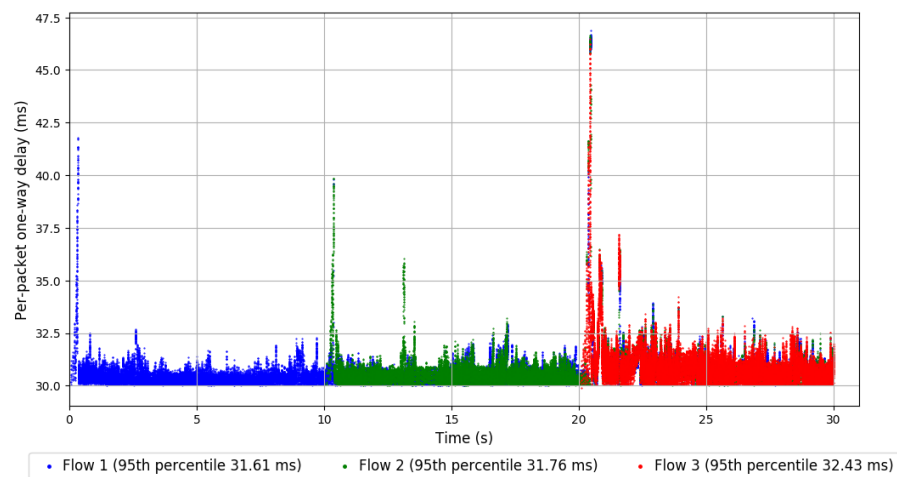
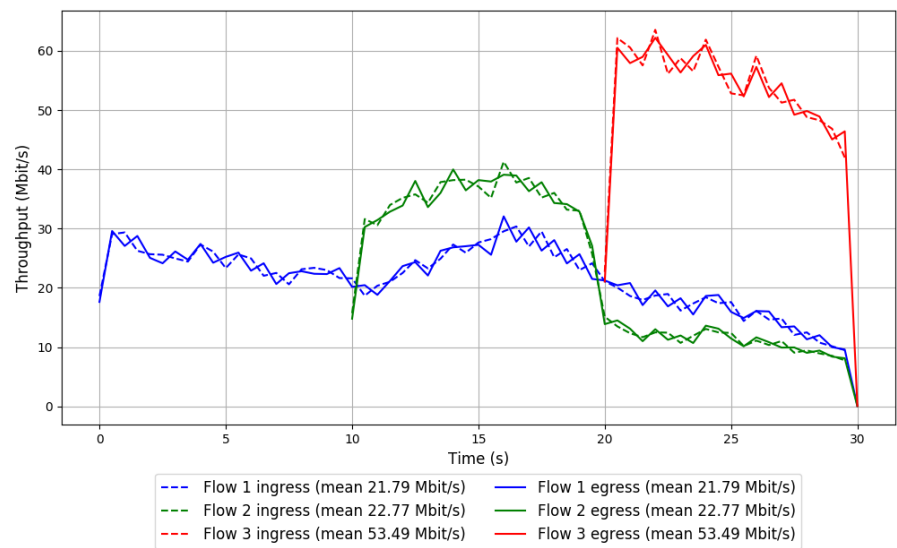


Run 7: Statistics of TCP Vegas

Start at: 2017-12-12 01:55:45
End at: 2017-12-12 01:56:15
Local clock offset: 0.479 ms
Remote clock offset: -3.507 ms

Below is generated by plot.py at 2017-12-12 03:47:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 54.71 Mbit/s
95th percentile per-packet one-way delay: 31.942 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 21.79 Mbit/s
95th percentile per-packet one-way delay: 31.613 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 22.77 Mbit/s
95th percentile per-packet one-way delay: 31.764 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 53.49 Mbit/s
95th percentile per-packet one-way delay: 32.427 ms
Loss rate: 0.00%

Run 7: Report of TCP Vegas — Data Link

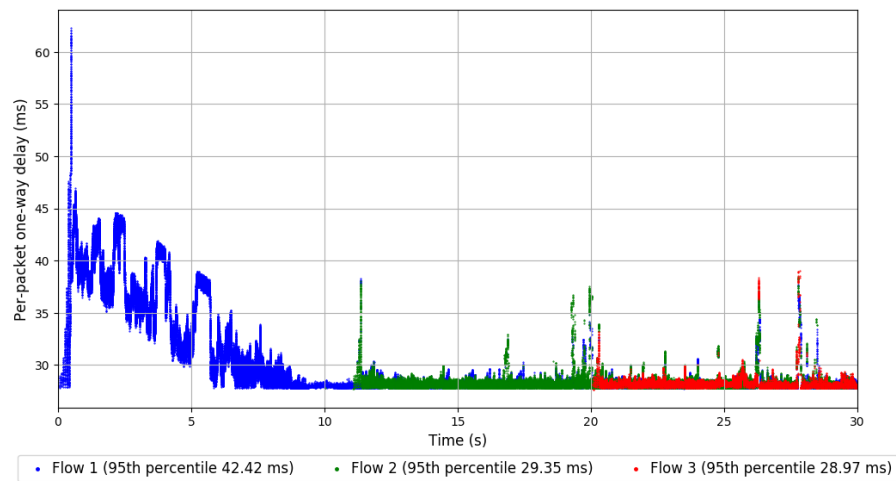
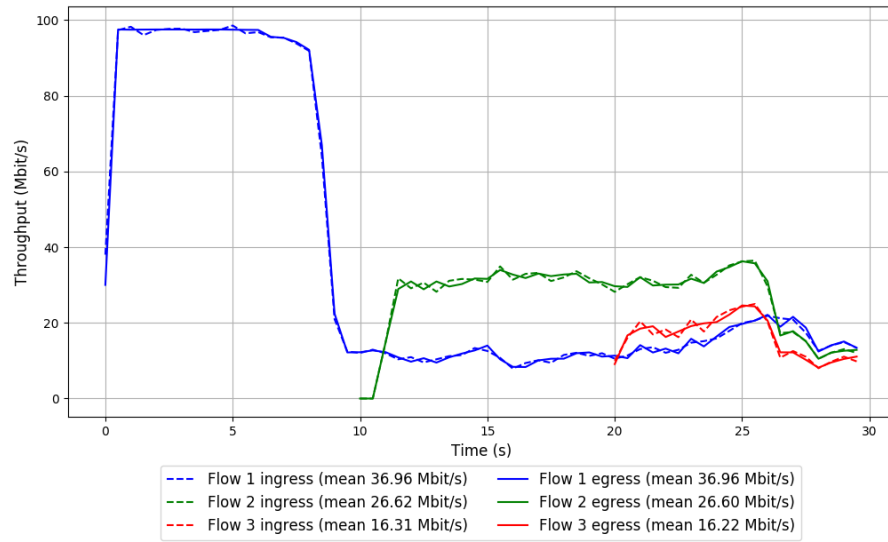


Run 8: Statistics of TCP Vegas

Start at: 2017-12-12 02:20:52
End at: 2017-12-12 02:21:22
Local clock offset: 1.004 ms
Remote clock offset: -4.869 ms

Below is generated by plot.py at 2017-12-12 03:47:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 60.04 Mbit/s
95th percentile per-packet one-way delay: 40.971 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 36.96 Mbit/s
95th percentile per-packet one-way delay: 42.424 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 26.60 Mbit/s
95th percentile per-packet one-way delay: 29.346 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 16.22 Mbit/s
95th percentile per-packet one-way delay: 28.966 ms
Loss rate: 0.52%

Run 8: Report of TCP Vegas — Data Link

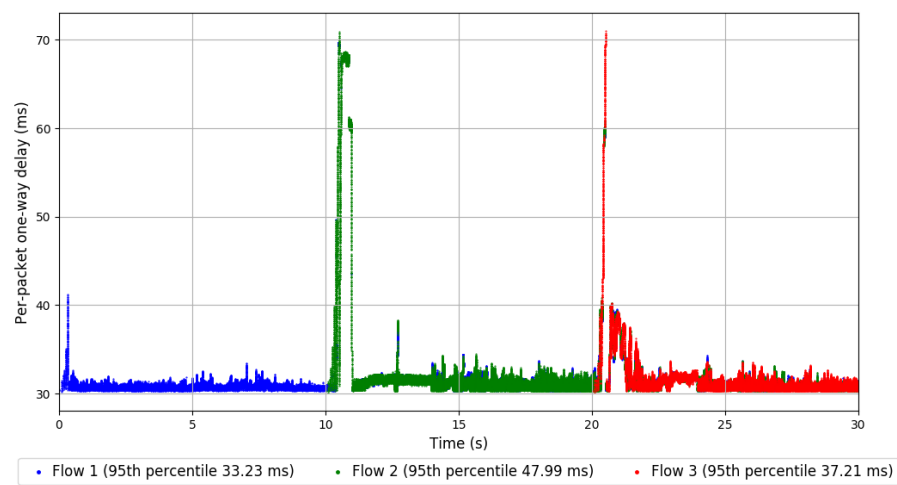
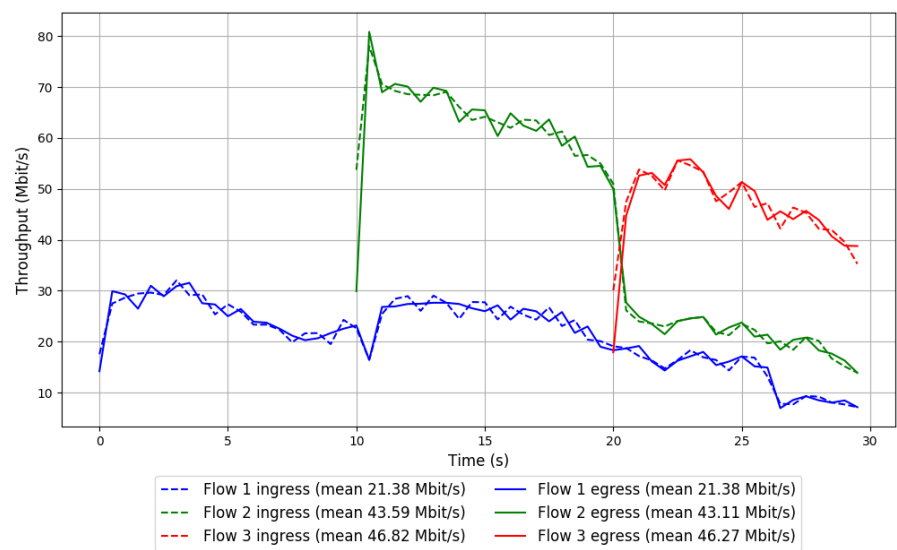


Run 9: Statistics of TCP Vegas

Start at: 2017-12-12 02:45:25
End at: 2017-12-12 02:45:55
Local clock offset: 1.268 ms
Remote clock offset: -1.934 ms

Below is generated by plot.py at 2017-12-12 03:47:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 65.39 Mbit/s
95th percentile per-packet one-way delay: 37.475 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 21.38 Mbit/s
95th percentile per-packet one-way delay: 33.234 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 43.11 Mbit/s
95th percentile per-packet one-way delay: 47.986 ms
Loss rate: 1.09%
-- Flow 3:
Average throughput: 46.27 Mbit/s
95th percentile per-packet one-way delay: 37.208 ms
Loss rate: 1.18%

Run 9: Report of TCP Vegas — Data Link

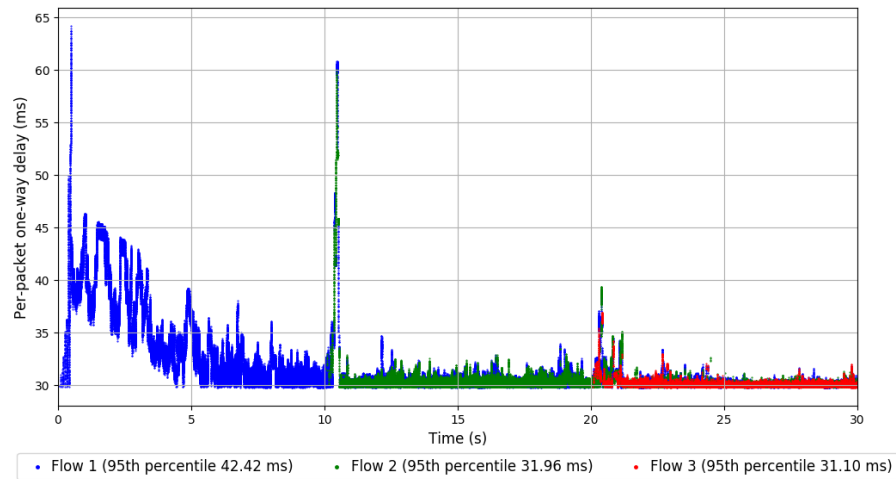
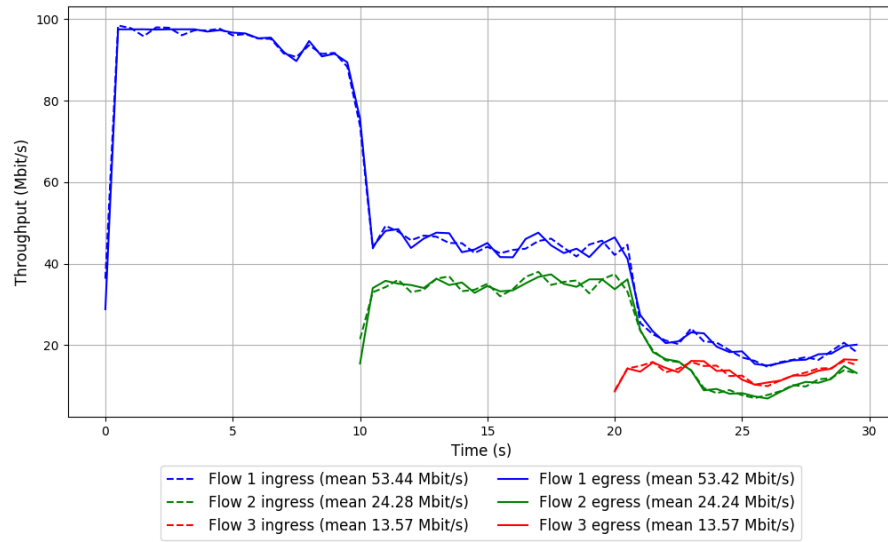


Run 10: Statistics of TCP Vegas

Start at: 2017-12-12 03:09:46
End at: 2017-12-12 03:10:16
Local clock offset: 1.412 ms
Remote clock offset: -2.148 ms

Below is generated by plot.py at 2017-12-12 03:47:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 74.05 Mbit/s
95th percentile per-packet one-way delay: 41.224 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 53.42 Mbit/s
95th percentile per-packet one-way delay: 42.419 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 24.24 Mbit/s
95th percentile per-packet one-way delay: 31.960 ms
Loss rate: 0.15%
-- Flow 3:
Average throughput: 13.57 Mbit/s
95th percentile per-packet one-way delay: 31.104 ms
Loss rate: 0.00%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2017-12-11 23:27:51

End at: 2017-12-11 23:28:21

Local clock offset: -0.333 ms

Remote clock offset: 2.339 ms

Below is generated by plot.py at 2017-12-12 03:47:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 64.13 Mbit/s

95th percentile per-packet one-way delay: 66.613 ms

Loss rate: 29.67%

-- Flow 1:

Average throughput: 44.96 Mbit/s

95th percentile per-packet one-way delay: 66.172 ms

Loss rate: 26.18%

-- Flow 2:

Average throughput: 27.23 Mbit/s

95th percentile per-packet one-way delay: 67.691 ms

Loss rate: 36.98%

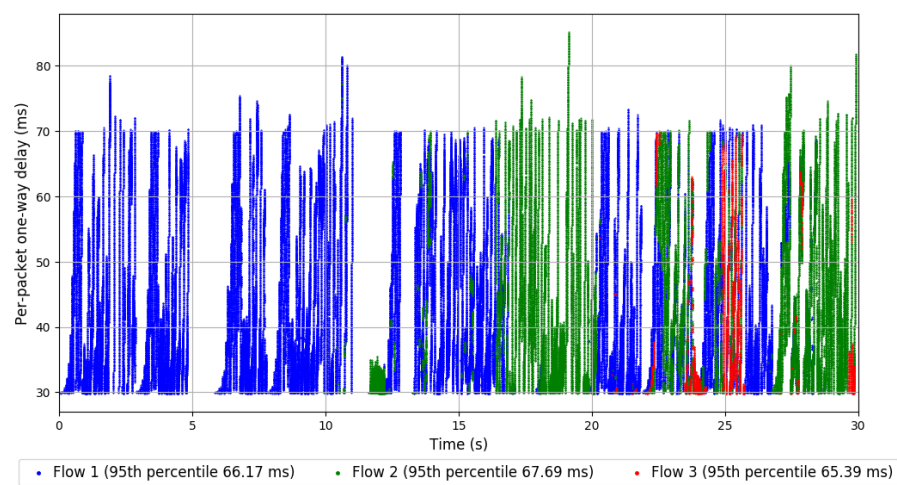
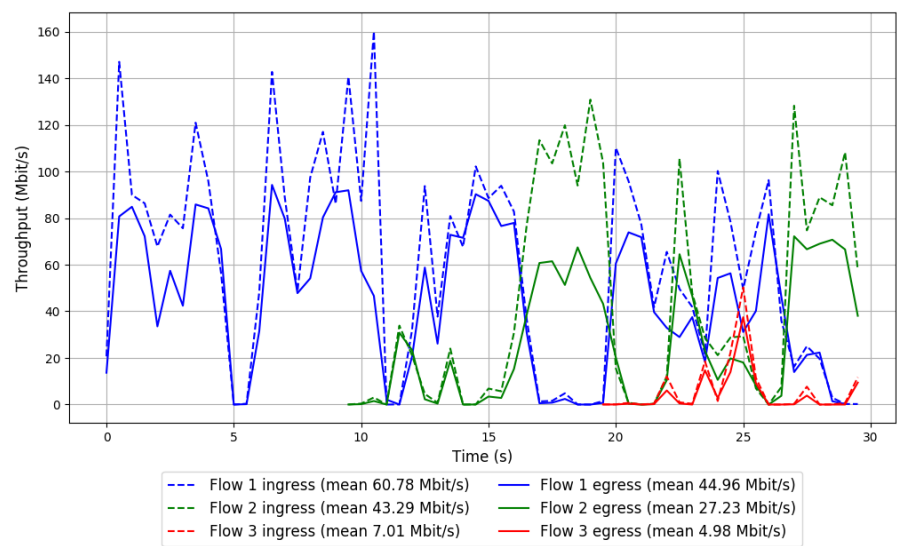
-- Flow 3:

Average throughput: 4.98 Mbit/s

95th percentile per-packet one-way delay: 65.392 ms

Loss rate: 29.05%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2017-12-11 23:50:09

End at: 2017-12-11 23:50:39

Local clock offset: -0.171 ms

Remote clock offset: 0.537 ms

Below is generated by plot.py at 2017-12-12 03:48:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 57.58 Mbit/s

95th percentile per-packet one-way delay: 69.267 ms

Loss rate: 63.26%

-- Flow 1:

Average throughput: 29.86 Mbit/s

95th percentile per-packet one-way delay: 63.598 ms

Loss rate: 26.07%

-- Flow 2:

Average throughput: 25.60 Mbit/s

95th percentile per-packet one-way delay: 63.593 ms

Loss rate: 24.20%

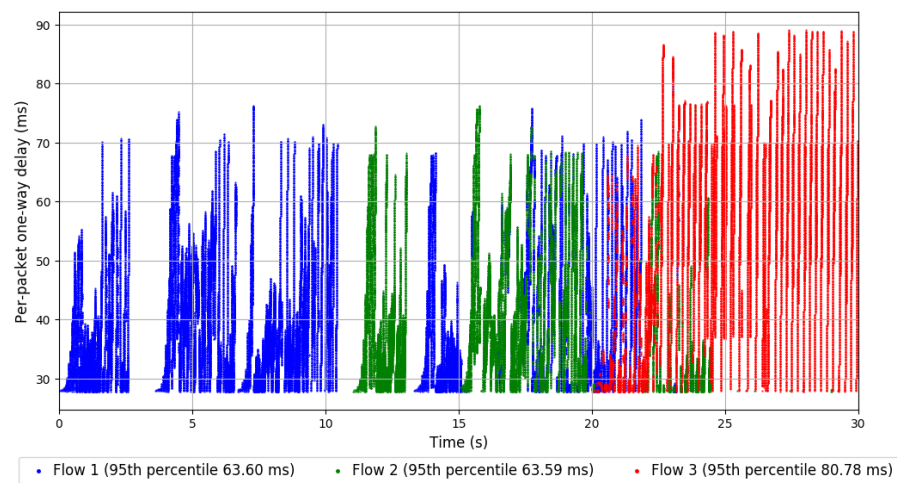
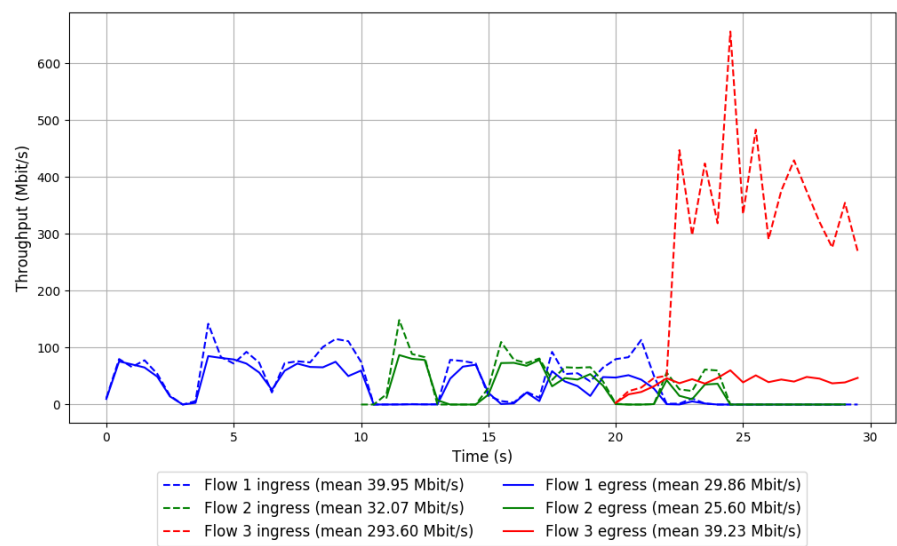
-- Flow 3:

Average throughput: 39.23 Mbit/s

95th percentile per-packet one-way delay: 80.777 ms

Loss rate: 86.60%

Run 2: Report of Verus — Data Link

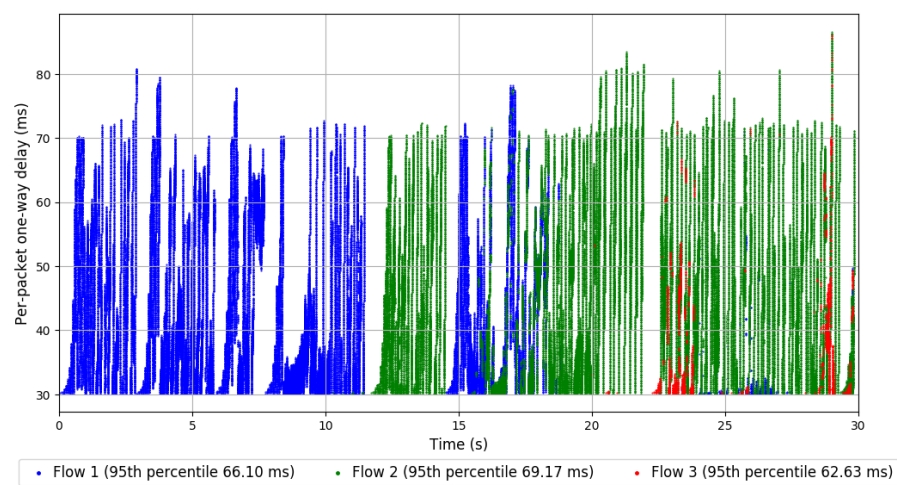
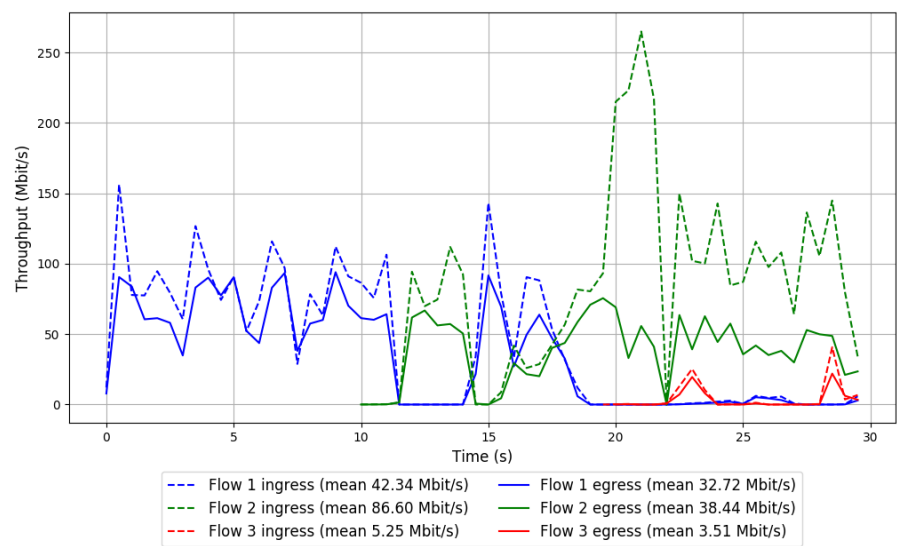


Run 3: Statistics of Verus

Start at: 2017-12-12 00:12:52
End at: 2017-12-12 00:13:22
Local clock offset: -0.355 ms
Remote clock offset: 2.295 ms

Below is generated by plot.py at 2017-12-12 03:48:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 58.98 Mbit/s
95th percentile per-packet one-way delay: 67.762 ms
Loss rate: 41.42%
-- Flow 1:
Average throughput: 32.72 Mbit/s
95th percentile per-packet one-way delay: 66.104 ms
Loss rate: 22.87%
-- Flow 2:
Average throughput: 38.44 Mbit/s
95th percentile per-packet one-way delay: 69.165 ms
Loss rate: 55.52%
-- Flow 3:
Average throughput: 3.51 Mbit/s
95th percentile per-packet one-way delay: 62.635 ms
Loss rate: 33.62%

Run 3: Report of Verus — Data Link

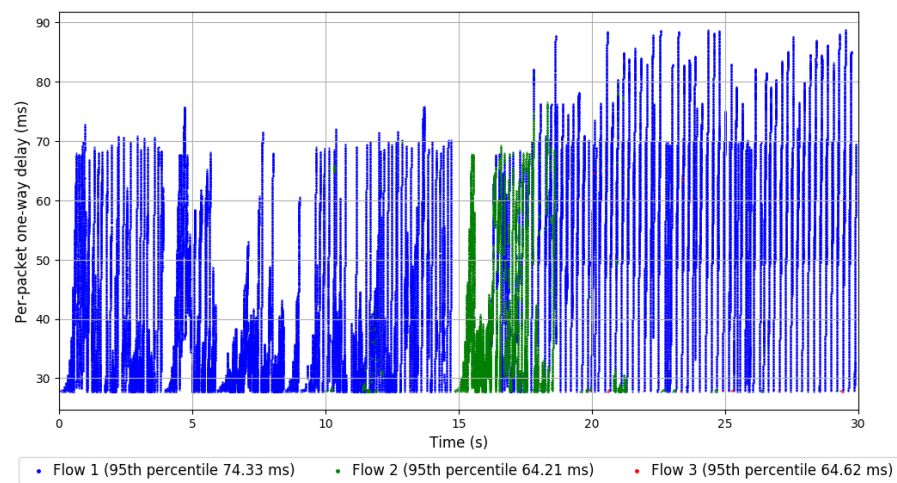
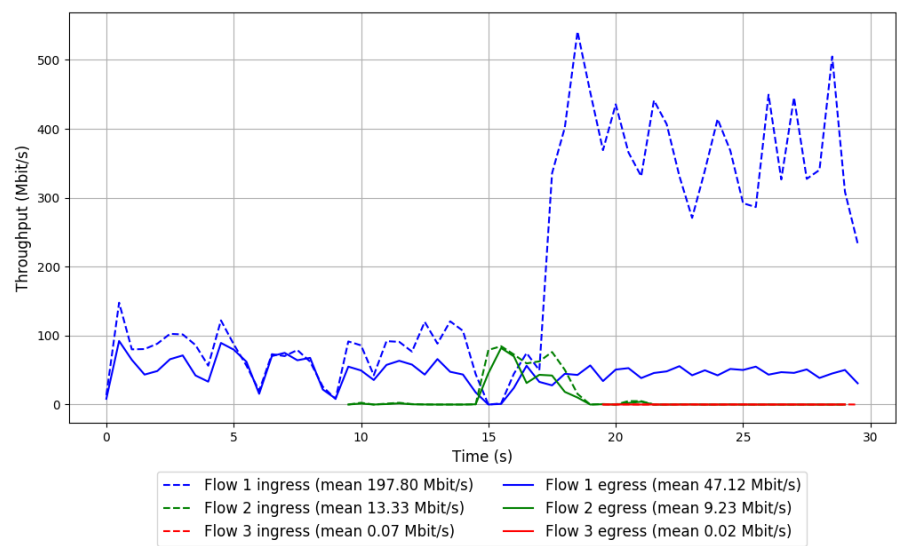


Run 4: Statistics of Verus

Start at: 2017-12-12 00:35:13
End at: 2017-12-12 00:35:43
Local clock offset: -0.715 ms
Remote clock offset: -1.071 ms

Below is generated by plot.py at 2017-12-12 03:48:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 53.06 Mbit/s
95th percentile per-packet one-way delay: 73.370 ms
Loss rate: 74.29%
-- Flow 1:
Average throughput: 47.12 Mbit/s
95th percentile per-packet one-way delay: 74.325 ms
Loss rate: 76.16%
-- Flow 2:
Average throughput: 9.23 Mbit/s
95th percentile per-packet one-way delay: 64.213 ms
Loss rate: 31.90%
-- Flow 3:
Average throughput: 0.02 Mbit/s
95th percentile per-packet one-way delay: 64.623 ms
Loss rate: 64.81%

Run 4: Report of Verus — Data Link

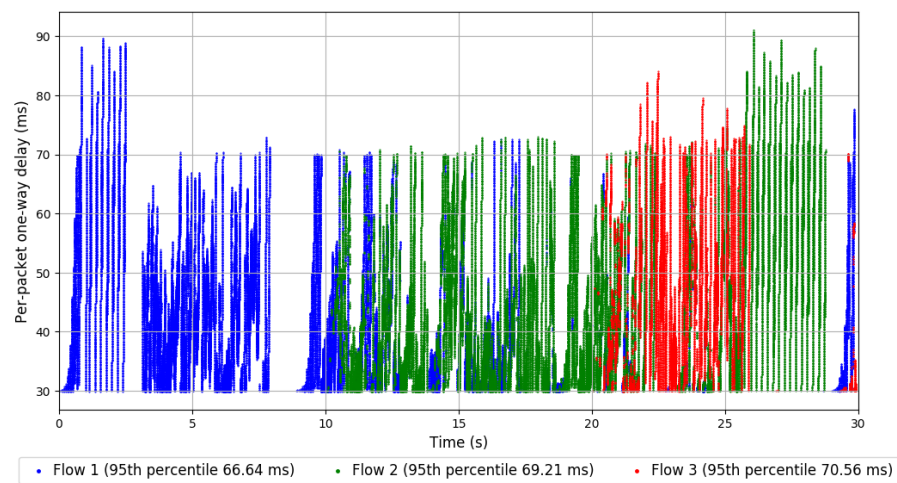
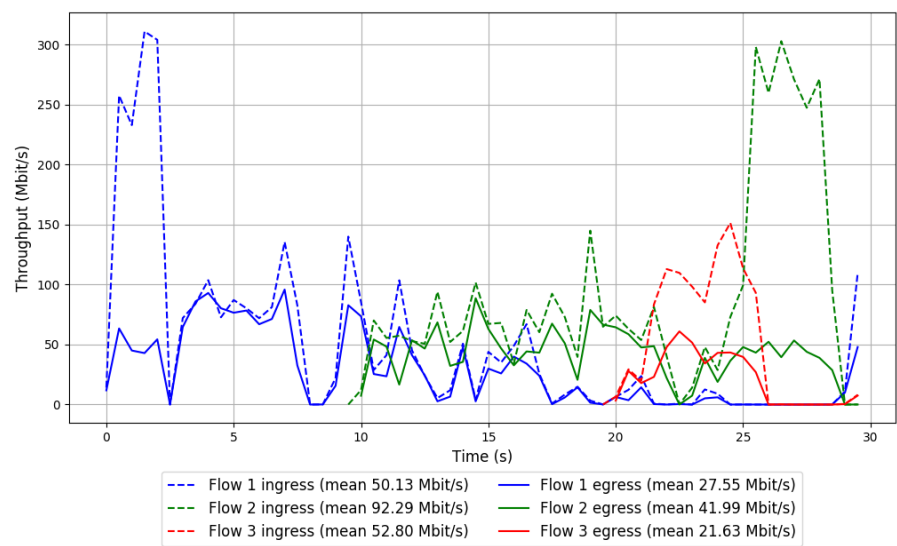


Run 5: Statistics of Verus

Start at: 2017-12-12 00:58:15
End at: 2017-12-12 00:58:45
Local clock offset: -0.51 ms
Remote clock offset: -1.262 ms

Below is generated by plot.py at 2017-12-12 03:48:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 62.37 Mbit/s
95th percentile per-packet one-way delay: 68.568 ms
Loss rate: 51.47%
-- Flow 1:
Average throughput: 27.55 Mbit/s
95th percentile per-packet one-way delay: 66.635 ms
Loss rate: 44.96%
-- Flow 2:
Average throughput: 41.99 Mbit/s
95th percentile per-packet one-way delay: 69.206 ms
Loss rate: 54.63%
-- Flow 3:
Average throughput: 21.63 Mbit/s
95th percentile per-packet one-way delay: 70.562 ms
Loss rate: 59.03%

Run 5: Report of Verus — Data Link

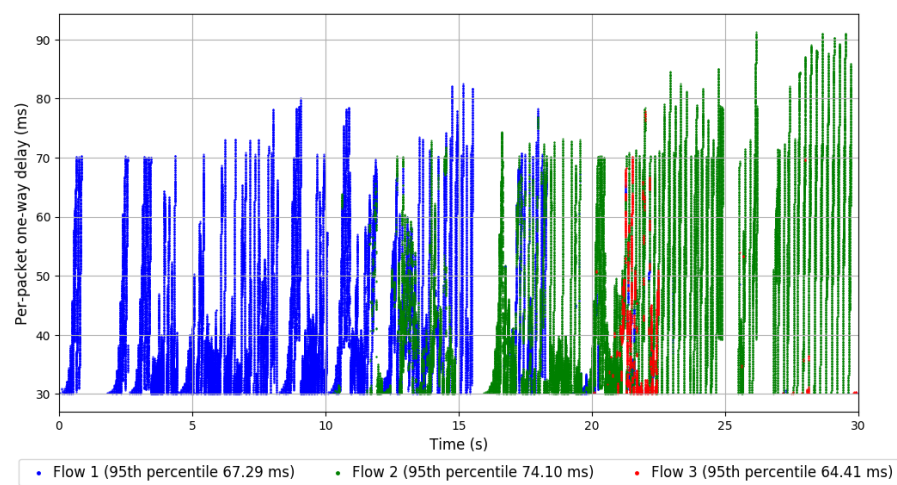
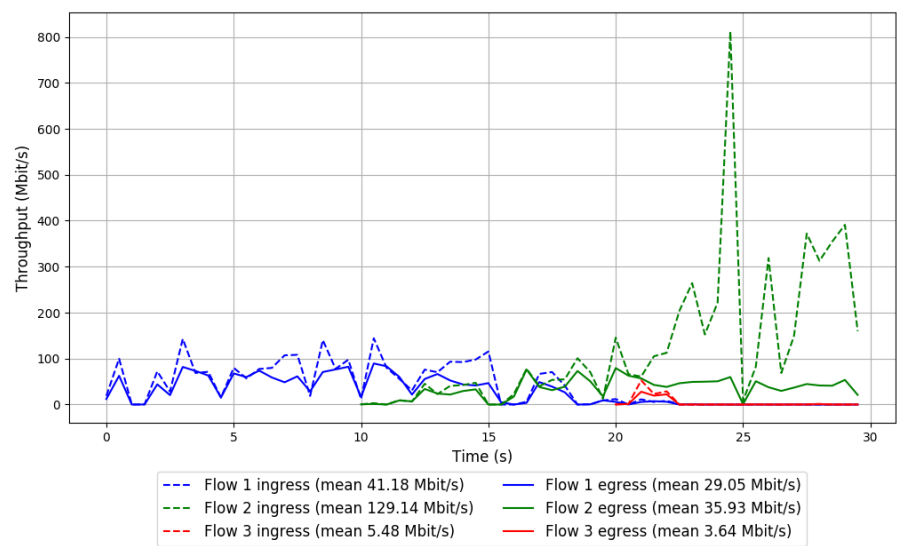


Run 6: Statistics of Verus

Start at: 2017-12-12 01:22:53
End at: 2017-12-12 01:23:23
Local clock offset: -0.06 ms
Remote clock offset: -2.955 ms

Below is generated by plot.py at 2017-12-12 03:48:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 53.59 Mbit/s
95th percentile per-packet one-way delay: 70.055 ms
Loss rate: 57.74%
-- Flow 1:
Average throughput: 29.05 Mbit/s
95th percentile per-packet one-way delay: 67.286 ms
Loss rate: 29.47%
-- Flow 2:
Average throughput: 35.93 Mbit/s
95th percentile per-packet one-way delay: 74.097 ms
Loss rate: 72.15%
-- Flow 3:
Average throughput: 3.64 Mbit/s
95th percentile per-packet one-way delay: 64.414 ms
Loss rate: 33.52%

Run 6: Report of Verus — Data Link

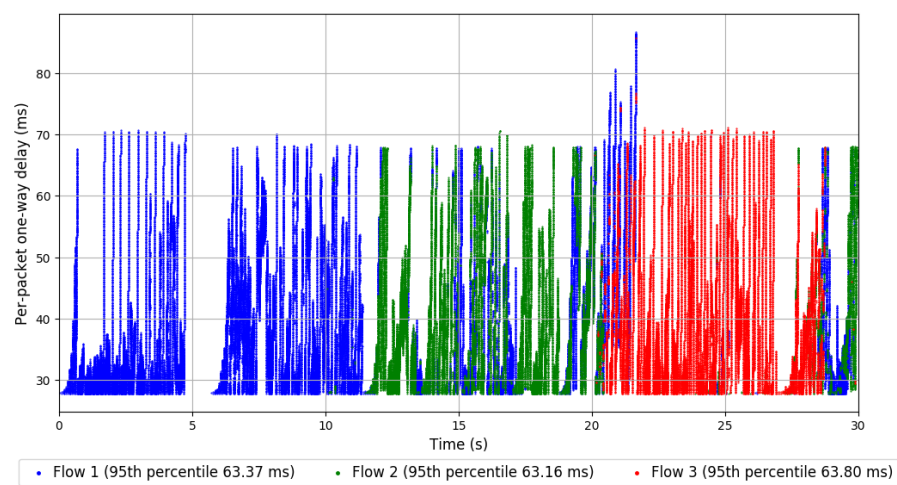
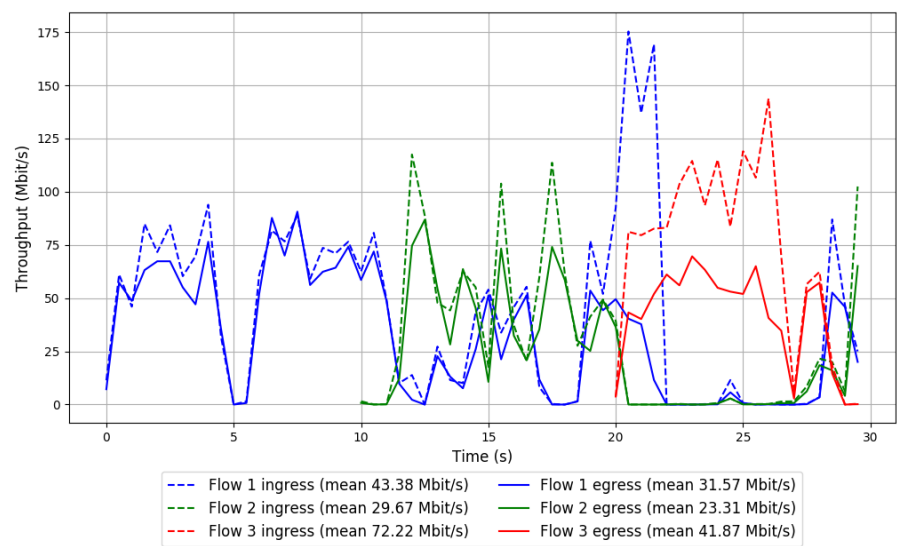


Run 7: Statistics of Verus

Start at: 2017-12-12 01:47:50
End at: 2017-12-12 01:48:20
Local clock offset: 0.258 ms
Remote clock offset: -5.897 ms

Below is generated by plot.py at 2017-12-12 03:48:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 60.67 Mbit/s
95th percentile per-packet one-way delay: 63.393 ms
Loss rate: 30.09%
-- Flow 1:
Average throughput: 31.57 Mbit/s
95th percentile per-packet one-way delay: 63.369 ms
Loss rate: 27.17%
-- Flow 2:
Average throughput: 23.31 Mbit/s
95th percentile per-packet one-way delay: 63.164 ms
Loss rate: 21.44%
-- Flow 3:
Average throughput: 41.87 Mbit/s
95th percentile per-packet one-way delay: 63.805 ms
Loss rate: 42.57%

Run 7: Report of Verus — Data Link

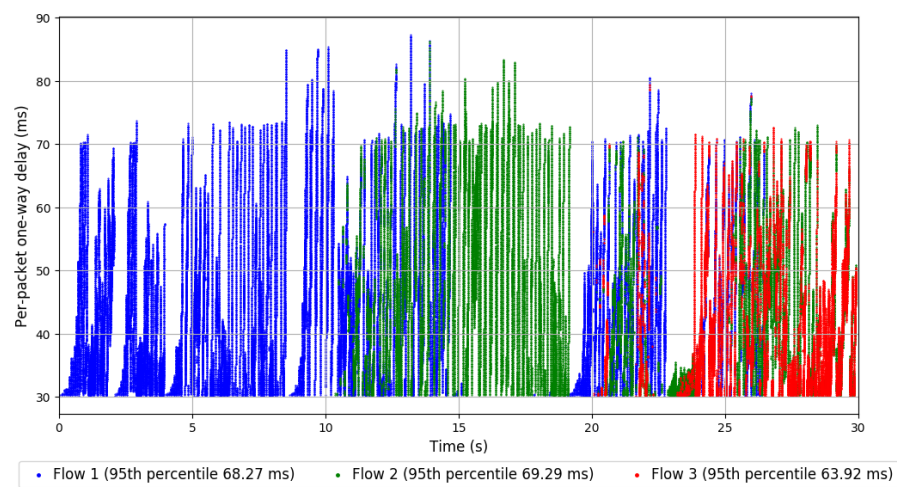
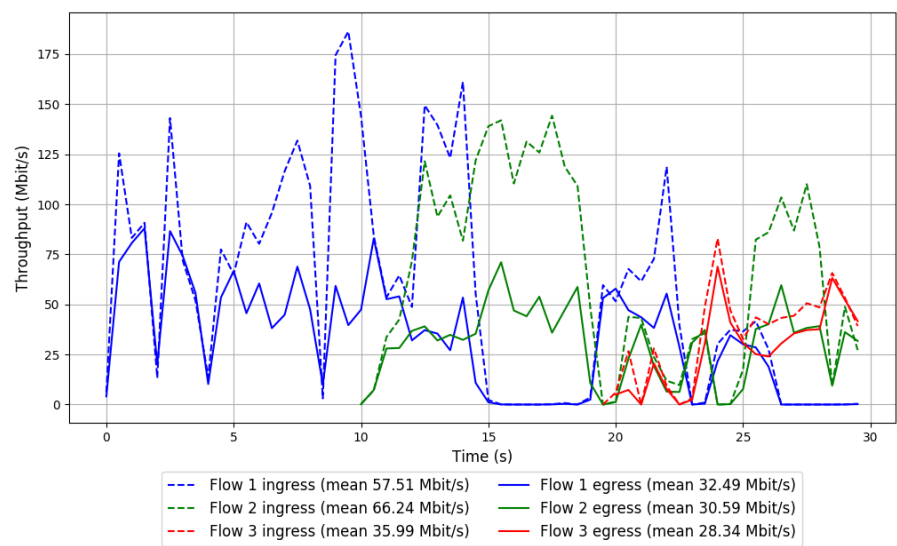


Run 8: Statistics of Verus

Start at: 2017-12-12 02:12:57
End at: 2017-12-12 02:13:27
Local clock offset: 0.955 ms
Remote clock offset: -2.751 ms

Below is generated by plot.py at 2017-12-12 03:48:45
Datalink statistics
-- Total of 3 flows:
Average throughput: 61.58 Mbit/s
95th percentile per-packet one-way delay: 68.281 ms
Loss rate: 45.22%
-- Flow 1:
Average throughput: 32.49 Mbit/s
95th percentile per-packet one-way delay: 68.273 ms
Loss rate: 43.62%
-- Flow 2:
Average throughput: 30.59 Mbit/s
95th percentile per-packet one-way delay: 69.286 ms
Loss rate: 53.87%
-- Flow 3:
Average throughput: 28.34 Mbit/s
95th percentile per-packet one-way delay: 63.921 ms
Loss rate: 21.30%

Run 8: Report of Verus — Data Link

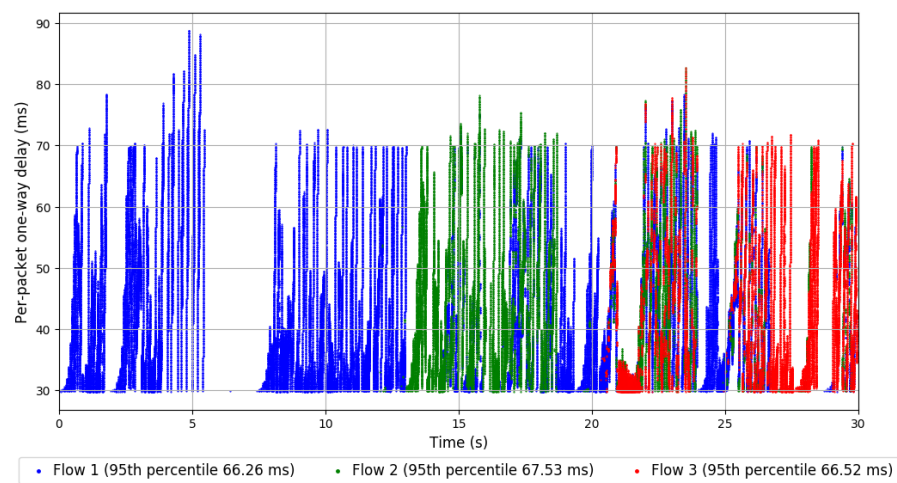
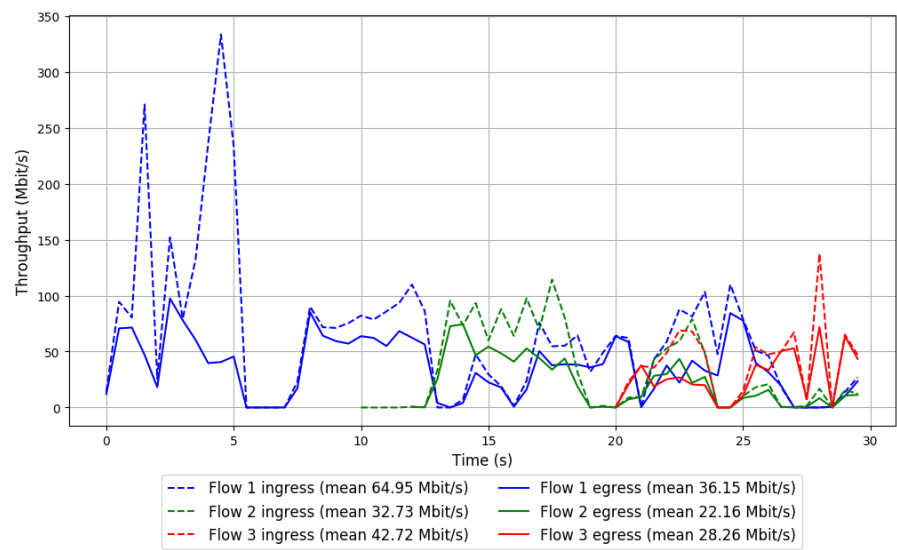


Run 9: Statistics of Verus

Start at: 2017-12-12 02:37:30
End at: 2017-12-12 02:38:00
Local clock offset: 1.283 ms
Remote clock offset: -2.373 ms

Below is generated by plot.py at 2017-12-12 03:48:46
Datalink statistics
-- Total of 3 flows:
Average throughput: 58.41 Mbit/s
95th percentile per-packet one-way delay: 66.678 ms
Loss rate: 41.73%
-- Flow 1:
Average throughput: 36.15 Mbit/s
95th percentile per-packet one-way delay: 66.261 ms
Loss rate: 44.30%
-- Flow 2:
Average throughput: 22.16 Mbit/s
95th percentile per-packet one-way delay: 67.534 ms
Loss rate: 39.07%
-- Flow 3:
Average throughput: 28.26 Mbit/s
95th percentile per-packet one-way delay: 66.523 ms
Loss rate: 33.82%

Run 9: Report of Verus — Data Link

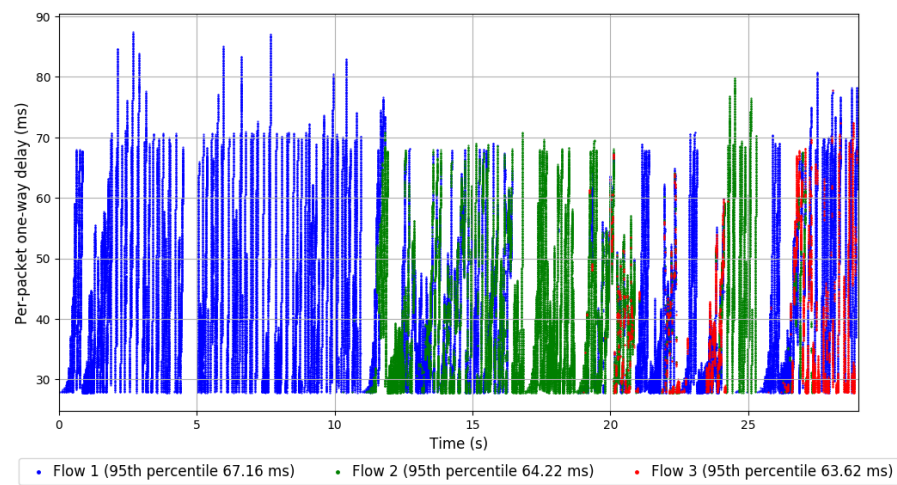
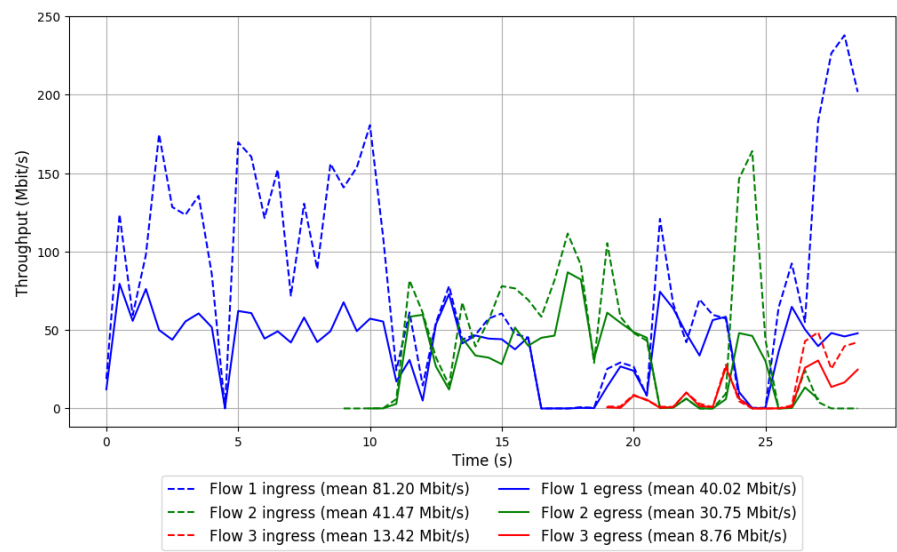


Run 10: Statistics of Verus

Start at: 2017-12-12 03:02:32
End at: 2017-12-12 03:03:02
Local clock offset: 1.423 ms
Remote clock offset: -4.223 ms

Below is generated by plot.py at 2017-12-12 03:48:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 61.18 Mbit/s
95th percentile per-packet one-way delay: 66.191 ms
Loss rate: 46.12%
-- Flow 1:
Average throughput: 40.02 Mbit/s
95th percentile per-packet one-way delay: 67.158 ms
Loss rate: 50.66%
-- Flow 2:
Average throughput: 30.75 Mbit/s
95th percentile per-packet one-way delay: 64.219 ms
Loss rate: 34.82%
-- Flow 3:
Average throughput: 8.76 Mbit/s
95th percentile per-packet one-way delay: 63.616 ms
Loss rate: 34.58%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2017-12-11 23:35:43

End at: 2017-12-11 23:36:13

Local clock offset: -0.221 ms

Remote clock offset: 2.446 ms

Below is generated by plot.py at 2017-12-12 03:49:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 50.91 Mbit/s

95th percentile per-packet one-way delay: 39.548 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 35.59 Mbit/s

95th percentile per-packet one-way delay: 39.516 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 17.63 Mbit/s

95th percentile per-packet one-way delay: 40.375 ms

Loss rate: 0.02%

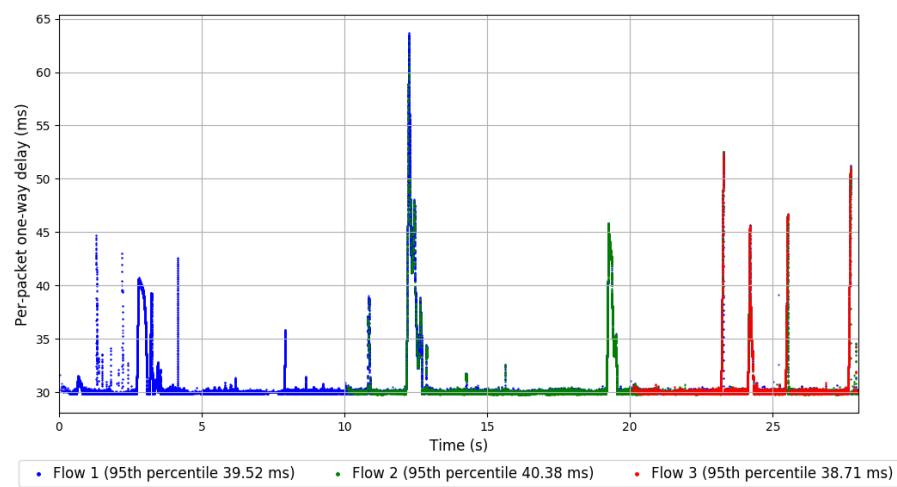
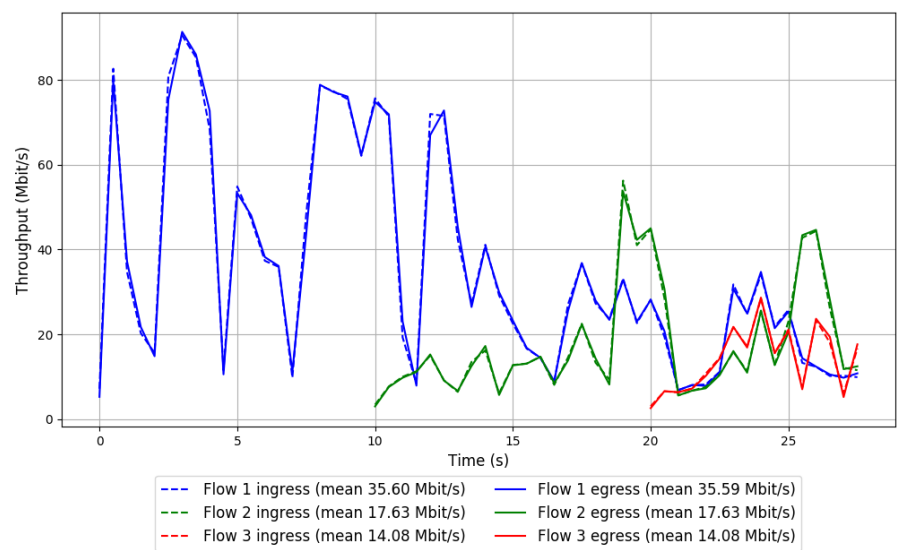
-- Flow 3:

Average throughput: 14.08 Mbit/s

95th percentile per-packet one-way delay: 38.709 ms

Loss rate: 0.01%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2017-12-11 23:58:41

End at: 2017-12-11 23:59:11

Local clock offset: -0.101 ms

Remote clock offset: 0.42 ms

Below is generated by plot.py at 2017-12-12 03:49:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 30.99 Mbit/s

95th percentile per-packet one-way delay: 43.585 ms

Loss rate: 0.20%

-- Flow 1:

Average throughput: 17.00 Mbit/s

95th percentile per-packet one-way delay: 41.030 ms

Loss rate: 0.36%

-- Flow 2:

Average throughput: 16.01 Mbit/s

95th percentile per-packet one-way delay: 42.802 ms

Loss rate: 0.00%

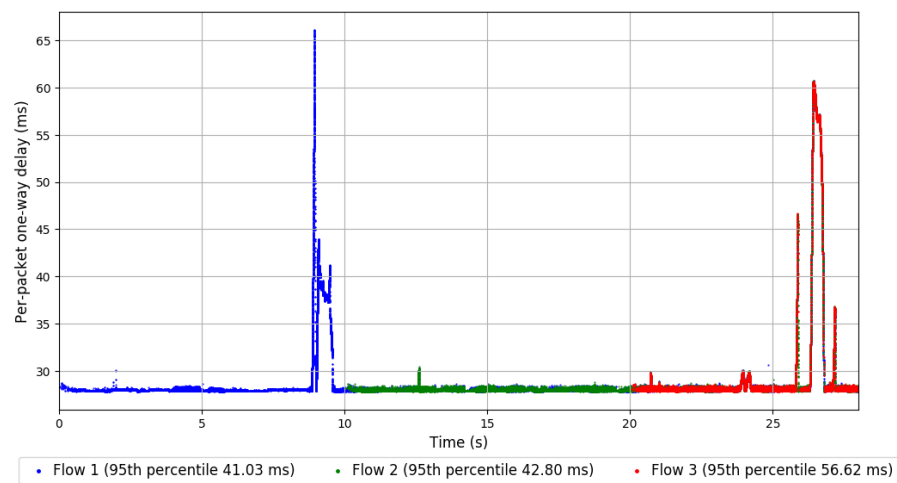
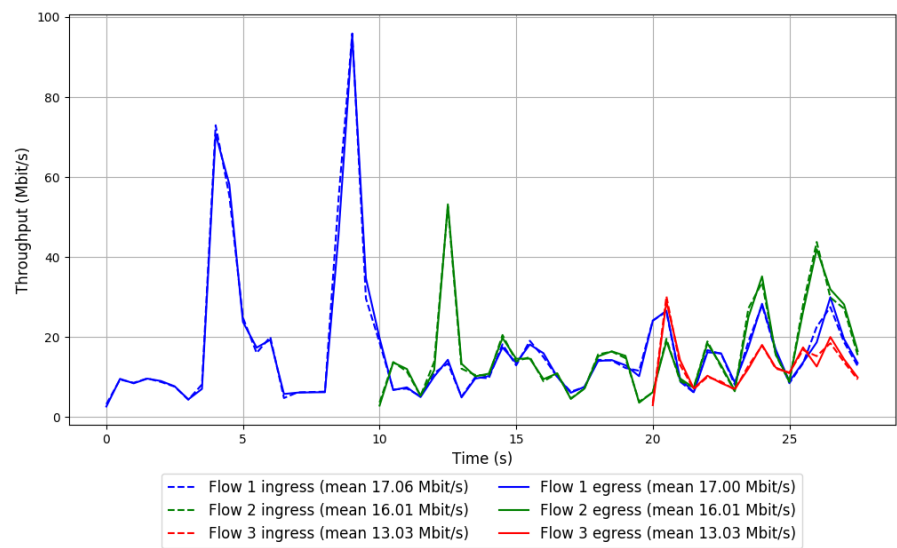
-- Flow 3:

Average throughput: 13.03 Mbit/s

95th percentile per-packet one-way delay: 56.616 ms

Loss rate: 0.00%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2017-12-12 00:21:06

End at: 2017-12-12 00:21:36

Local clock offset: -0.551 ms

Remote clock offset: 1.518 ms

Below is generated by plot.py at 2017-12-12 03:49:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 46.59 Mbit/s

95th percentile per-packet one-way delay: 48.610 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 27.43 Mbit/s

95th percentile per-packet one-way delay: 47.111 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 20.86 Mbit/s

95th percentile per-packet one-way delay: 52.998 ms

Loss rate: 0.02%

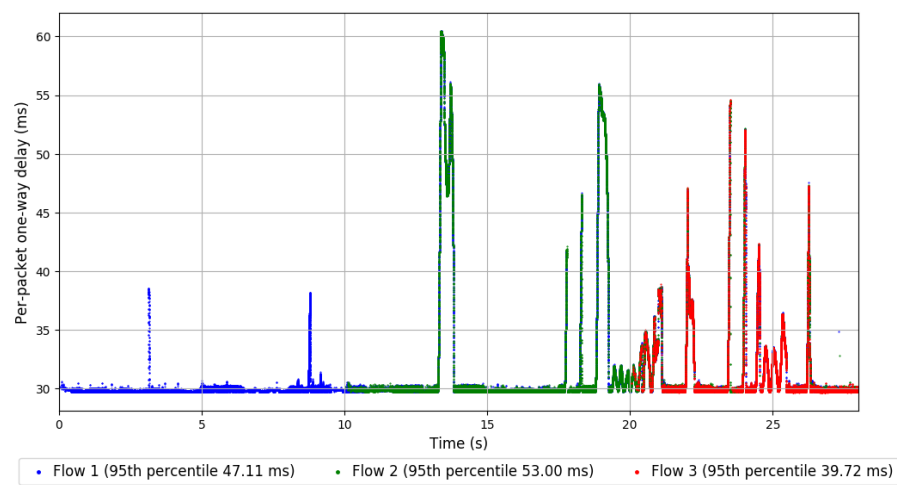
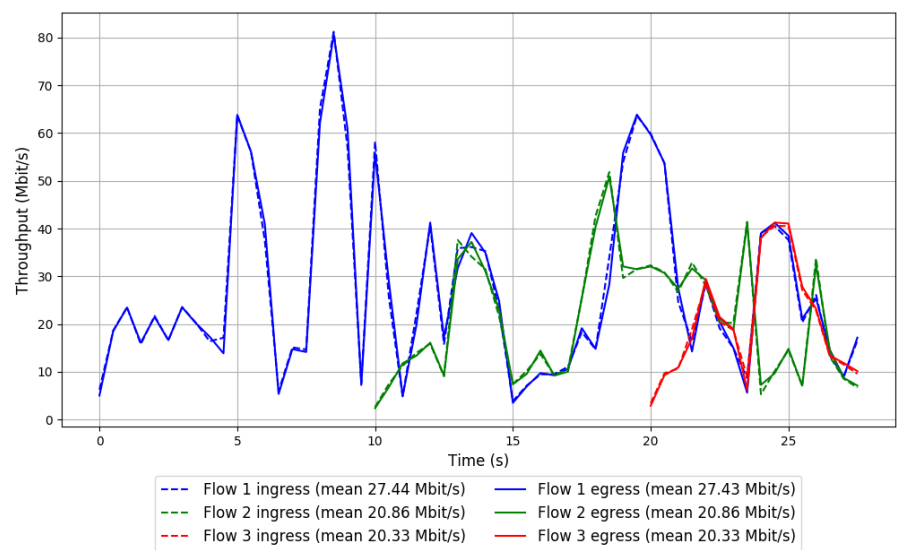
-- Flow 3:

Average throughput: 20.33 Mbit/s

95th percentile per-packet one-way delay: 39.716 ms

Loss rate: 0.04%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2017-12-12 00:43:51

End at: 2017-12-12 00:44:21

Local clock offset: -0.678 ms

Remote clock offset: 0.458 ms

Below is generated by plot.py at 2017-12-12 03:49:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 44.49 Mbit/s

95th percentile per-packet one-way delay: 35.759 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 25.62 Mbit/s

95th percentile per-packet one-way delay: 33.133 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 18.58 Mbit/s

95th percentile per-packet one-way delay: 36.634 ms

Loss rate: 0.00%

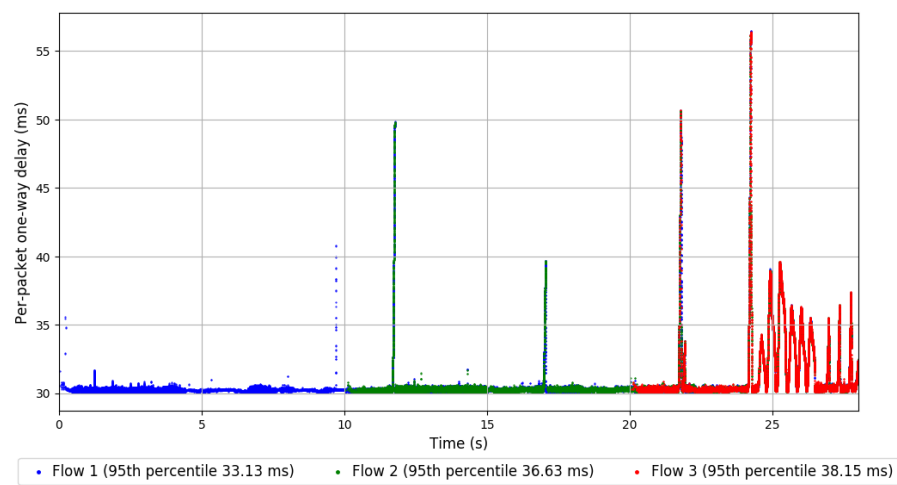
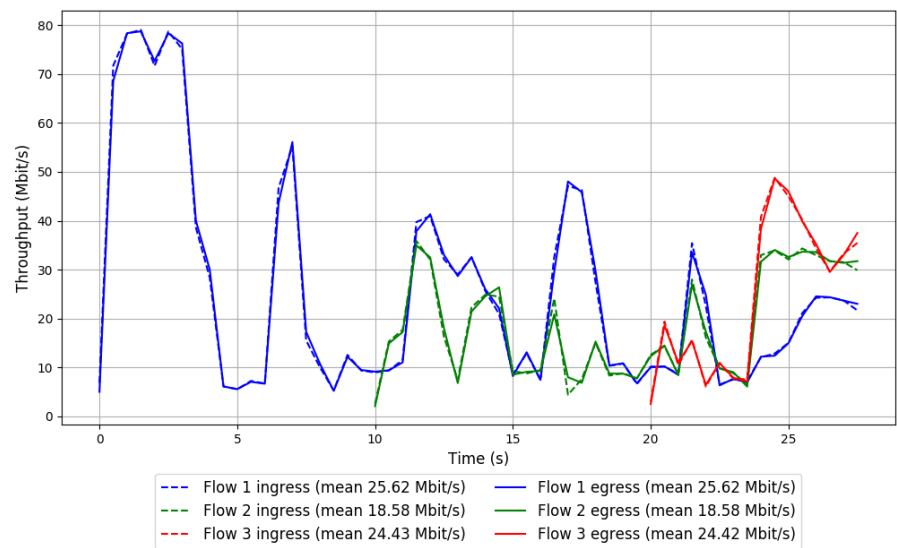
-- Flow 3:

Average throughput: 24.42 Mbit/s

95th percentile per-packet one-way delay: 38.149 ms

Loss rate: 0.02%

Run 4: Report of Copa — Data Link

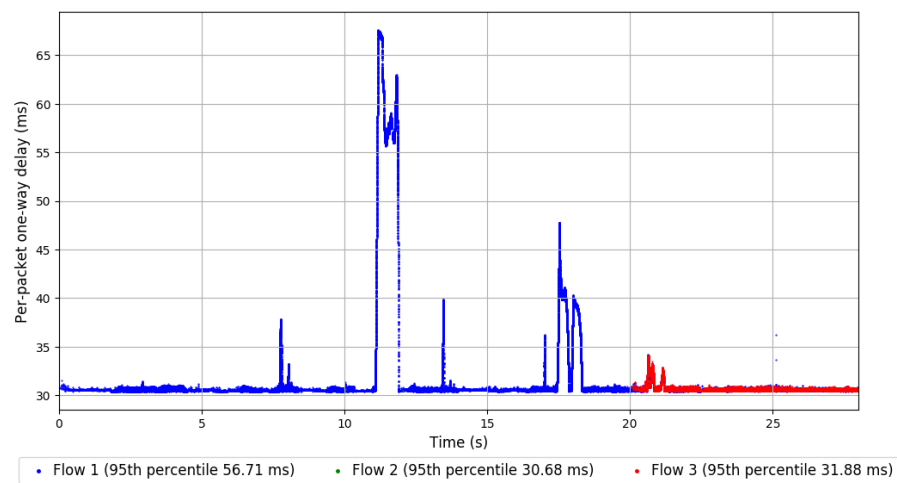
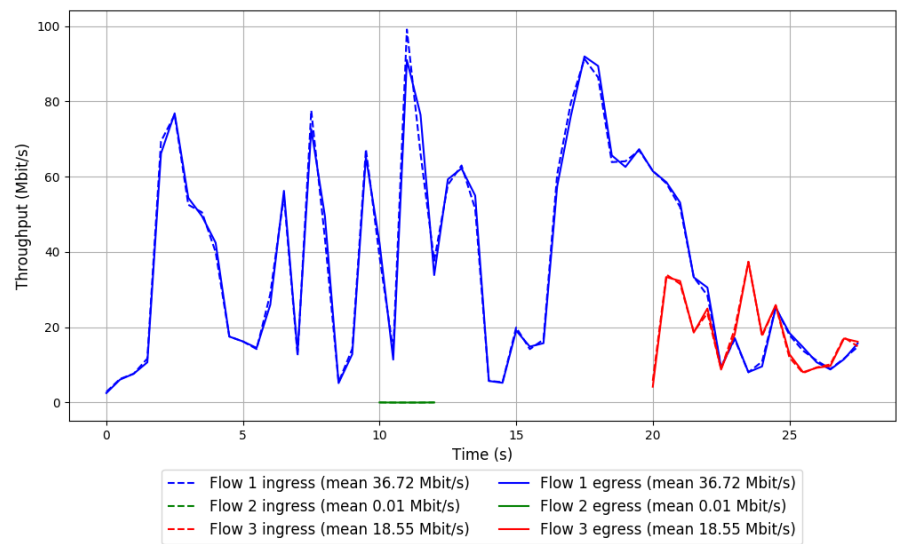


Run 5: Statistics of Copa

Start at: 2017-12-12 01:07:26
End at: 2017-12-12 01:07:57
Local clock offset: -0.295 ms
Remote clock offset: -1.568 ms

Below is generated by plot.py at 2017-12-12 03:49:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 41.99 Mbit/s
95th percentile per-packet one-way delay: 56.309 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 36.72 Mbit/s
95th percentile per-packet one-way delay: 56.710 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.01 Mbit/s
95th percentile per-packet one-way delay: 30.678 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 18.55 Mbit/s
95th percentile per-packet one-way delay: 31.881 ms
Loss rate: 0.00%

Run 5: Report of Copa — Data Link

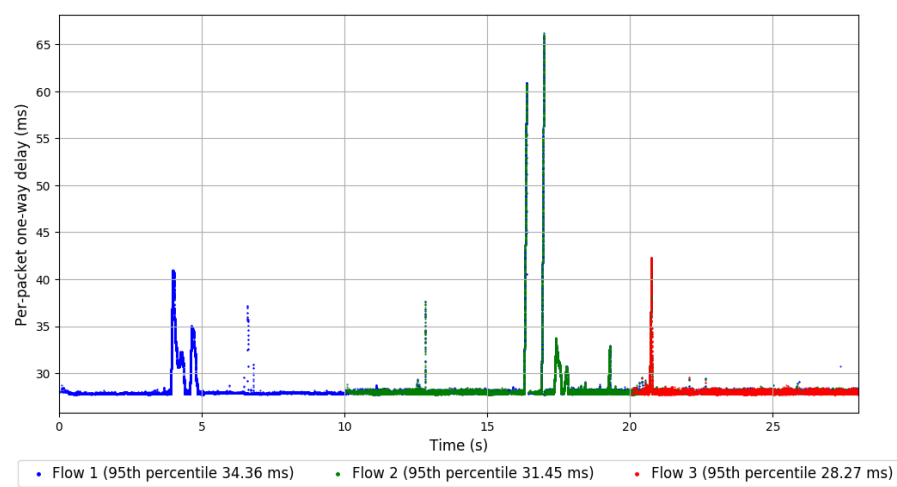
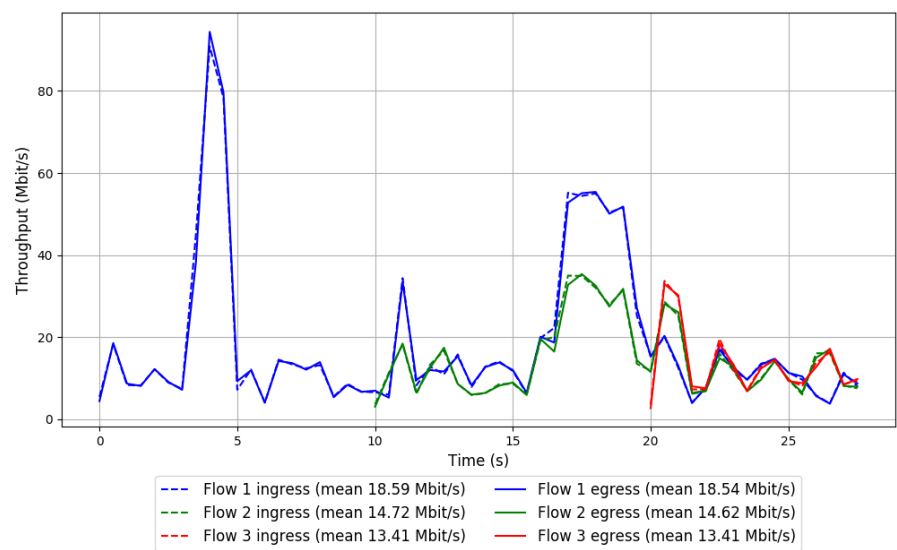


Run 6: Statistics of Copa

Start at: 2017-12-12 01:32:09
End at: 2017-12-12 01:32:39
Local clock offset: 0.123 ms
Remote clock offset: -5.724 ms

Below is generated by plot.py at 2017-12-12 03:49:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 31.73 Mbit/s
95th percentile per-packet one-way delay: 33.095 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 18.54 Mbit/s
95th percentile per-packet one-way delay: 34.364 ms
Loss rate: 0.27%
-- Flow 2:
Average throughput: 14.62 Mbit/s
95th percentile per-packet one-way delay: 31.445 ms
Loss rate: 0.68%
-- Flow 3:
Average throughput: 13.41 Mbit/s
95th percentile per-packet one-way delay: 28.275 ms
Loss rate: 0.00%

Run 6: Report of Copa — Data Link

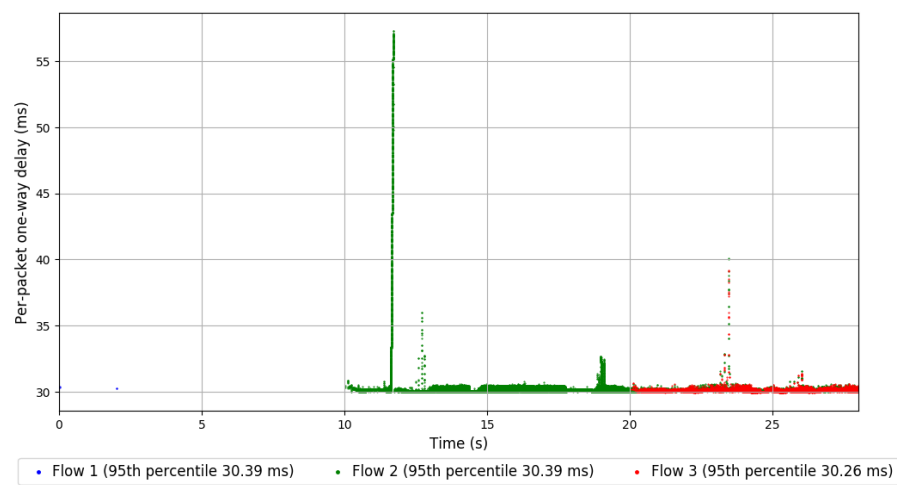
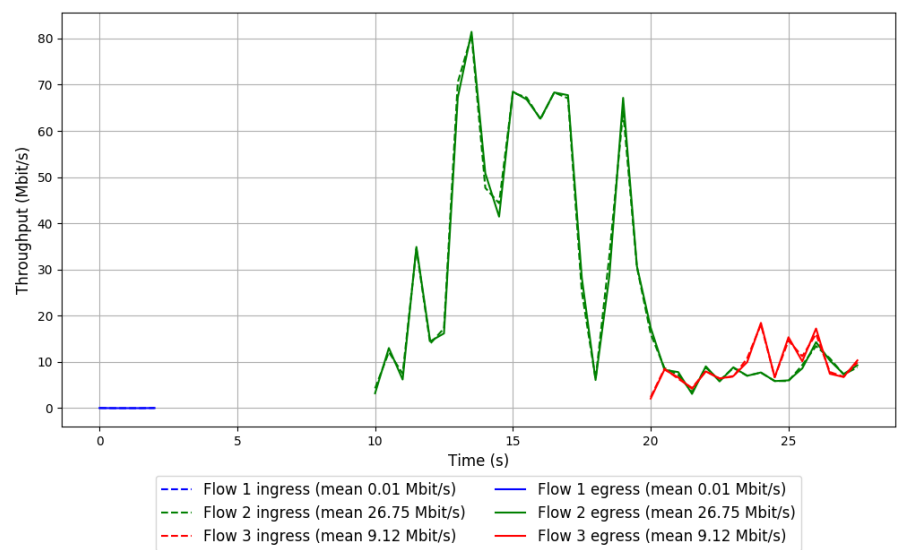


Run 7: Statistics of Copa

Start at: 2017-12-12 01:57:28
End at: 2017-12-12 01:57:58
Local clock offset: 0.551 ms
Remote clock offset: -3.532 ms

Below is generated by plot.py at 2017-12-12 03:49:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 19.76 Mbit/s
95th percentile per-packet one-way delay: 30.384 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.01 Mbit/s
95th percentile per-packet one-way delay: 30.386 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 26.75 Mbit/s
95th percentile per-packet one-way delay: 30.391 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 9.12 Mbit/s
95th percentile per-packet one-way delay: 30.262 ms
Loss rate: 0.00%

Run 7: Report of Copa — Data Link

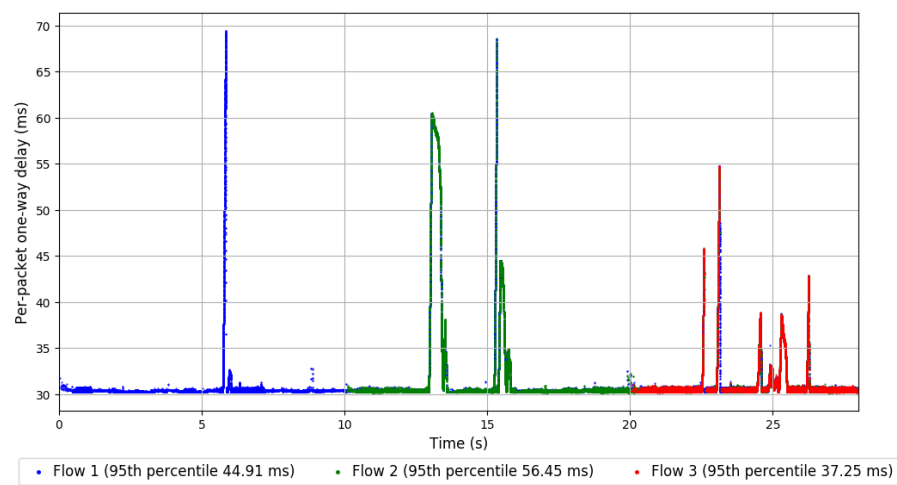
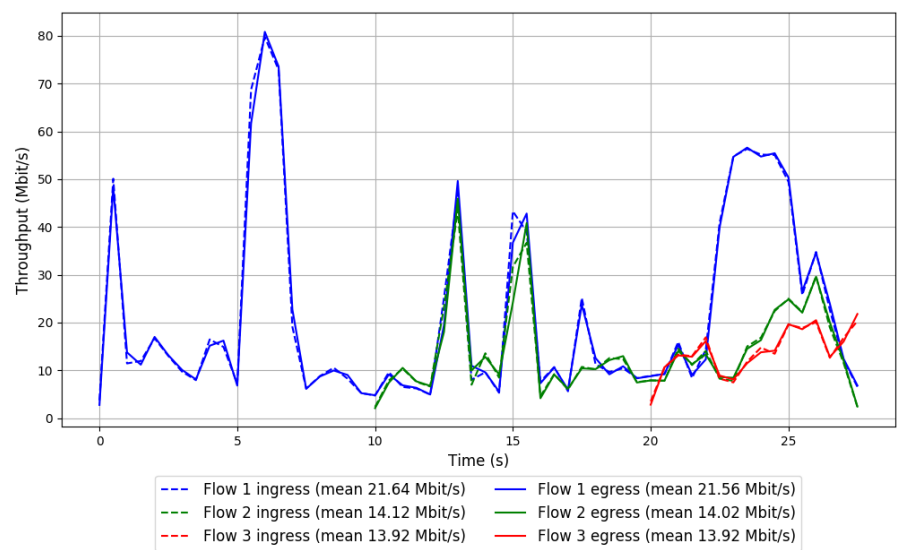


Run 8: Statistics of Copa

Start at: 2017-12-12 02:22:37
End at: 2017-12-12 02:23:07
Local clock offset: 1.103 ms
Remote clock offset: -2.299 ms

Below is generated by plot.py at 2017-12-12 03:49:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 34.51 Mbit/s
95th percentile per-packet one-way delay: 46.598 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 21.56 Mbit/s
95th percentile per-packet one-way delay: 44.912 ms
Loss rate: 0.41%
-- Flow 2:
Average throughput: 14.02 Mbit/s
95th percentile per-packet one-way delay: 56.449 ms
Loss rate: 0.71%
-- Flow 3:
Average throughput: 13.92 Mbit/s
95th percentile per-packet one-way delay: 37.249 ms
Loss rate: 0.00%

Run 8: Report of Copa — Data Link

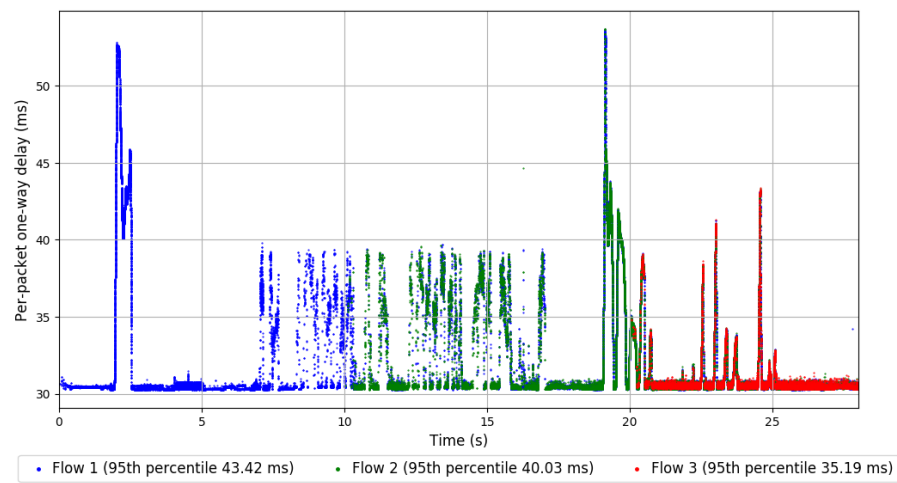
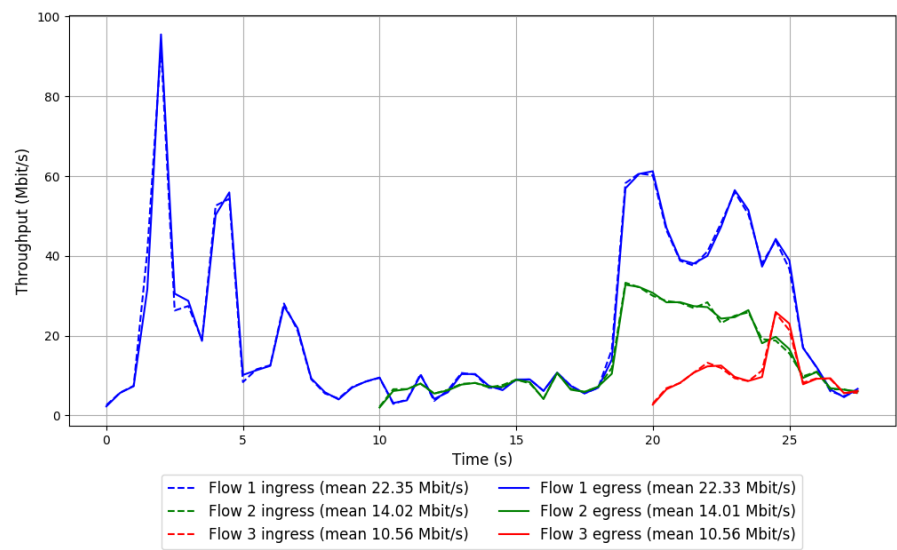


Run 9: Statistics of Copa

Start at: 2017-12-12 02:47:10
End at: 2017-12-12 02:47:40
Local clock offset: 1.371 ms
Remote clock offset: -1.834 ms

Below is generated by plot.py at 2017-12-12 03:50:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 34.32 Mbit/s
95th percentile per-packet one-way delay: 42.742 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 22.33 Mbit/s
95th percentile per-packet one-way delay: 43.420 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 14.01 Mbit/s
95th percentile per-packet one-way delay: 40.031 ms
Loss rate: 0.13%
-- Flow 3:
Average throughput: 10.56 Mbit/s
95th percentile per-packet one-way delay: 35.194 ms
Loss rate: 0.00%

Run 9: Report of Copa — Data Link

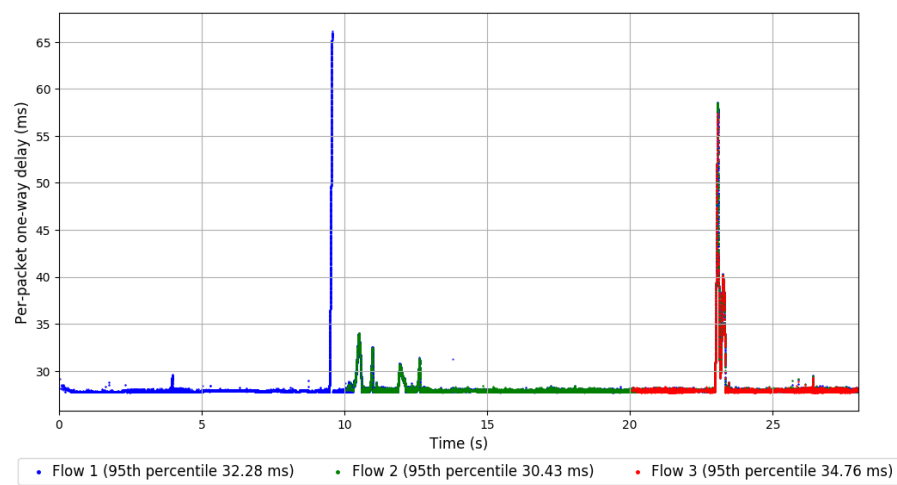
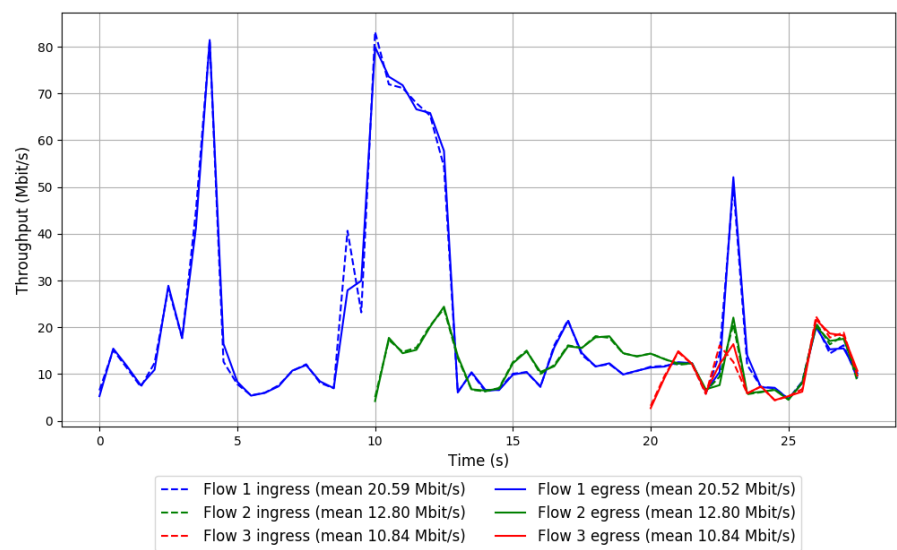


Run 10: Statistics of Copa

Start at: 2017-12-12 03:11:33
End at: 2017-12-12 03:12:03
Local clock offset: 1.401 ms
Remote clock offset: -4.237 ms

Below is generated by plot.py at 2017-12-12 03:50:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 31.81 Mbit/s
95th percentile per-packet one-way delay: 31.961 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 20.52 Mbit/s
95th percentile per-packet one-way delay: 32.281 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 12.80 Mbit/s
95th percentile per-packet one-way delay: 30.431 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 10.84 Mbit/s
95th percentile per-packet one-way delay: 34.756 ms
Loss rate: 0.00%

Run 10: Report of Copa — Data Link

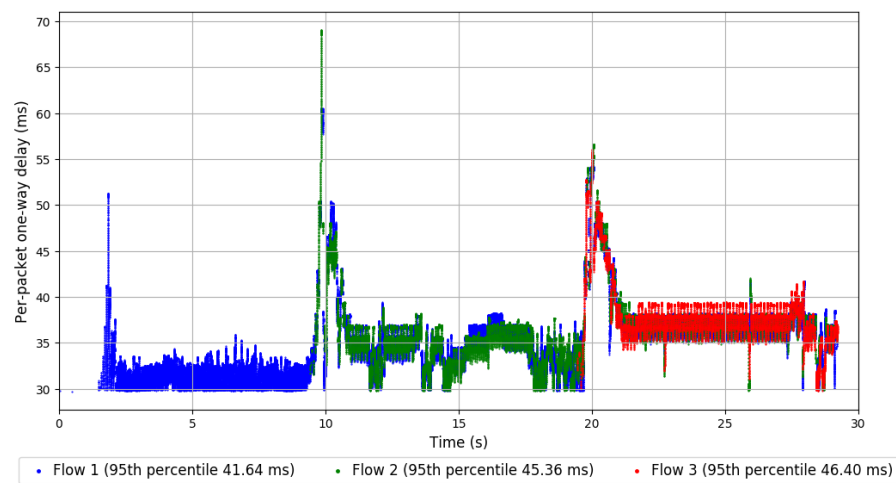
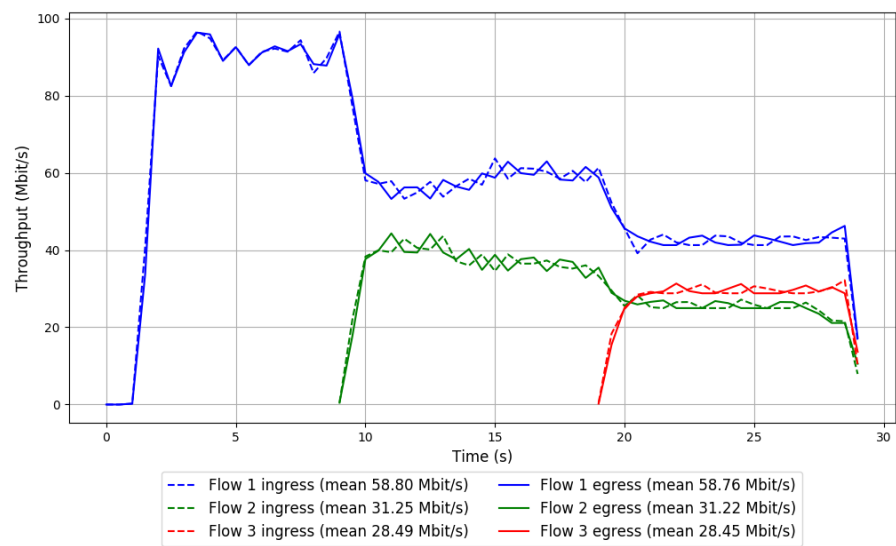


```
Run 1: Statistics of Indigo

Start at: 2017-12-11 23:23:33
End at: 2017-12-11 23:24:03
Local clock offset: -0.373 ms
Remote clock offset: 2.277 ms

# Below is generated by plot.py at 2017-12-12 03:50:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.36 Mbit/s
95th percentile per-packet one-way delay: 43.765 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 58.76 Mbit/s
95th percentile per-packet one-way delay: 41.638 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 31.22 Mbit/s
95th percentile per-packet one-way delay: 45.359 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 28.45 Mbit/s
95th percentile per-packet one-way delay: 46.395 ms
Loss rate: 0.10%
```

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2017-12-11 23:45:20

End at: 2017-12-11 23:45:50

Local clock offset: -0.07 ms

Remote clock offset: 2.666 ms

Below is generated by plot.py at 2017-12-12 03:50:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 75.64 Mbit/s

95th percentile per-packet one-way delay: 41.567 ms

Loss rate: 0.17%

-- Flow 1:

Average throughput: 39.57 Mbit/s

95th percentile per-packet one-way delay: 38.877 ms

Loss rate: 0.23%

-- Flow 2:

Average throughput: 40.15 Mbit/s

95th percentile per-packet one-way delay: 42.789 ms

Loss rate: 0.05%

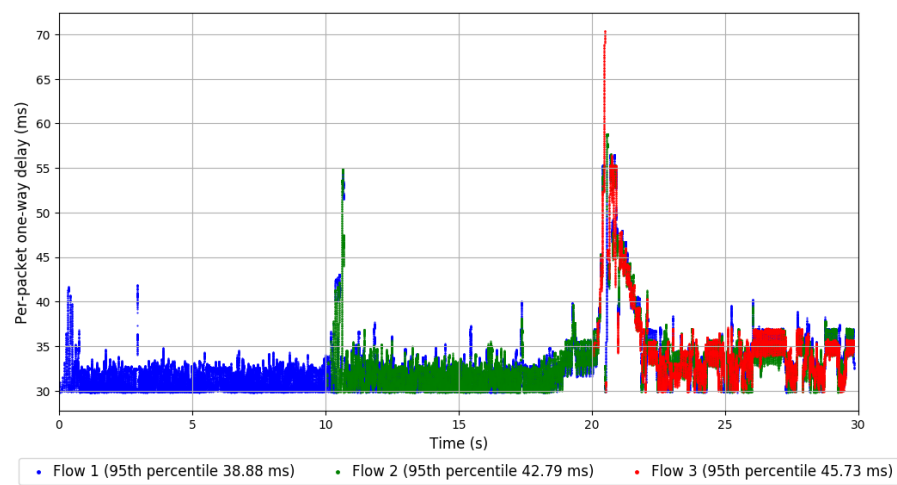
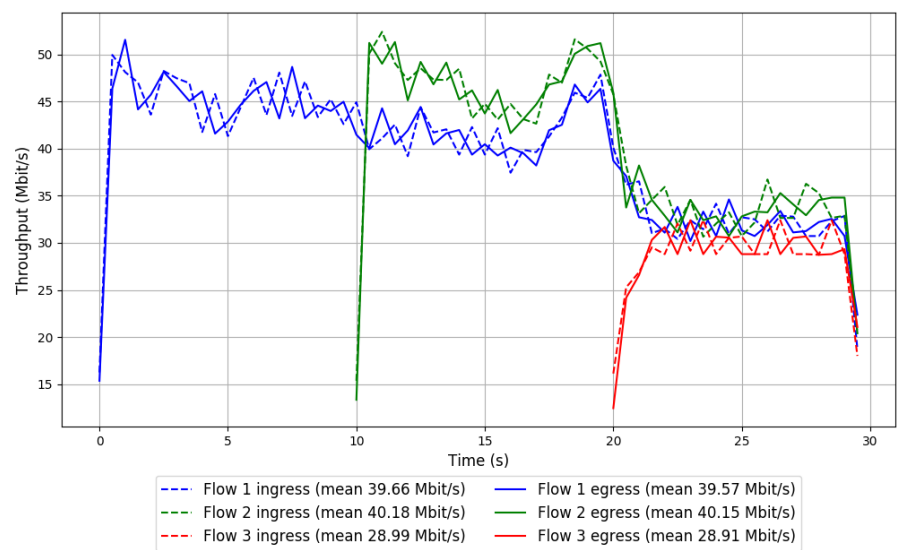
-- Flow 3:

Average throughput: 28.91 Mbit/s

95th percentile per-packet one-way delay: 45.731 ms

Loss rate: 0.25%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2017-12-12 00:08:02

End at: 2017-12-12 00:08:32

Local clock offset: -0.364 ms

Remote clock offset: 2.151 ms

Below is generated by plot.py at 2017-12-12 03:51:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.10 Mbit/s

95th percentile per-packet one-way delay: 44.079 ms

Loss rate: 0.13%

-- Flow 1:

Average throughput: 58.64 Mbit/s

95th percentile per-packet one-way delay: 40.658 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 35.01 Mbit/s

95th percentile per-packet one-way delay: 46.350 ms

Loss rate: 0.11%

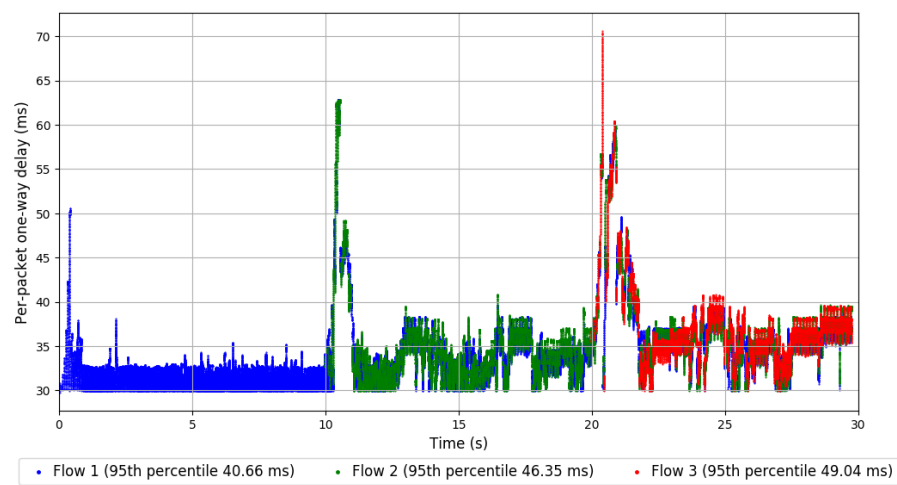
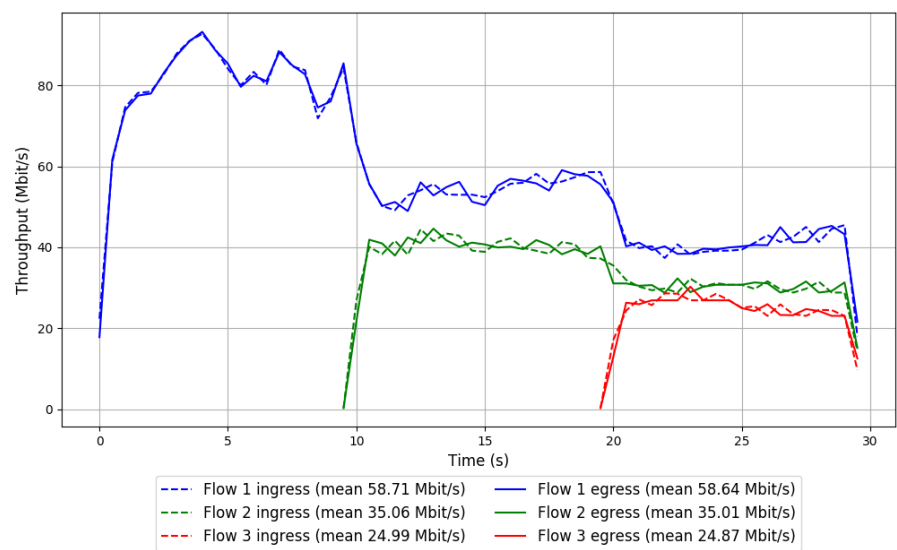
-- Flow 3:

Average throughput: 24.87 Mbit/s

95th percentile per-packet one-way delay: 49.042 ms

Loss rate: 0.47%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2017-12-12 00:30:25

End at: 2017-12-12 00:30:55

Local clock offset: -0.805 ms

Remote clock offset: 1.249 ms

Below is generated by plot.py at 2017-12-12 03:51:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.16 Mbit/s

95th percentile per-packet one-way delay: 42.001 ms

Loss rate: 0.17%

-- Flow 1:

Average throughput: 58.84 Mbit/s

95th percentile per-packet one-way delay: 40.326 ms

Loss rate: 0.18%

-- Flow 2:

Average throughput: 35.36 Mbit/s

95th percentile per-packet one-way delay: 47.333 ms

Loss rate: 0.23%

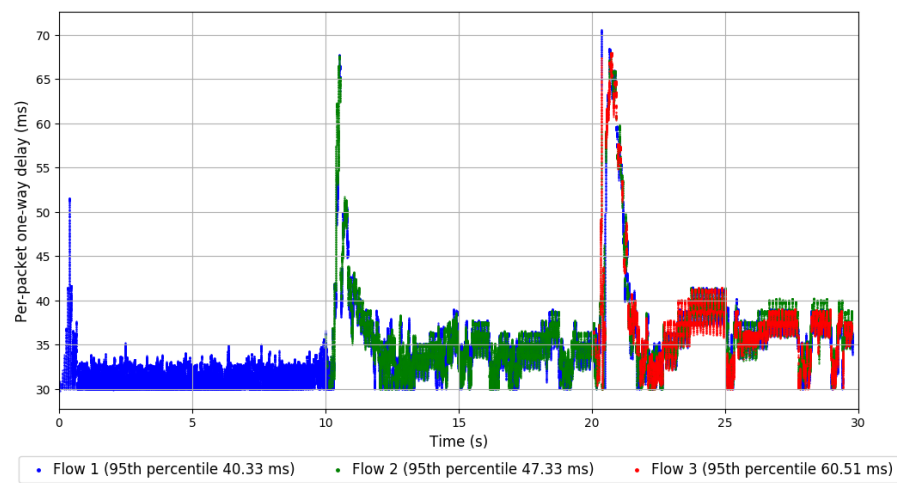
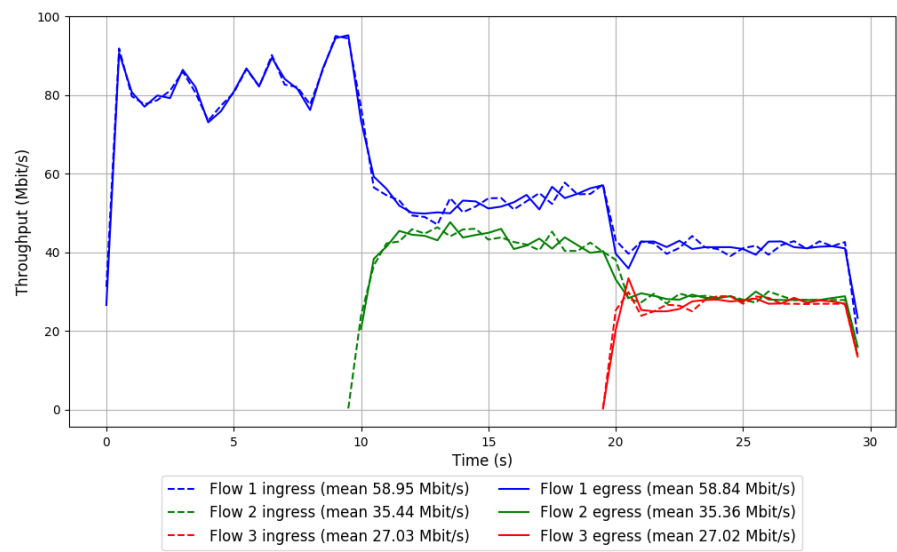
-- Flow 3:

Average throughput: 27.02 Mbit/s

95th percentile per-packet one-way delay: 60.512 ms

Loss rate: 0.00%

Run 4: Report of Indigo — Data Link

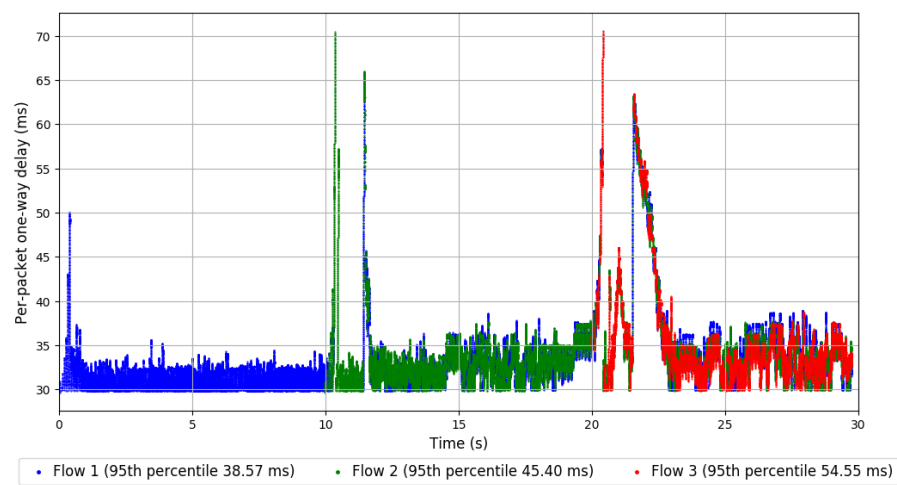
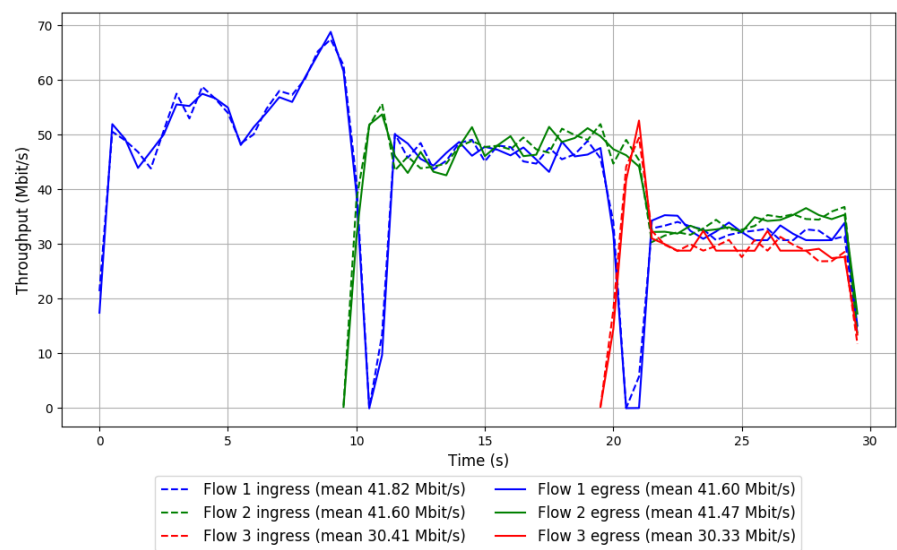


Run 5: Statistics of Indigo

Start at: 2017-12-12 00:53:21
End at: 2017-12-12 00:53:51
Local clock offset: -0.525 ms
Remote clock offset: -0.785 ms

Below is generated by plot.py at 2017-12-12 03:51:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 79.16 Mbit/s
95th percentile per-packet one-way delay: 43.596 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 41.60 Mbit/s
95th percentile per-packet one-way delay: 38.570 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 41.47 Mbit/s
95th percentile per-packet one-way delay: 45.403 ms
Loss rate: 0.28%
-- Flow 3:
Average throughput: 30.33 Mbit/s
95th percentile per-packet one-way delay: 54.553 ms
Loss rate: 0.26%

Run 5: Report of Indigo — Data Link

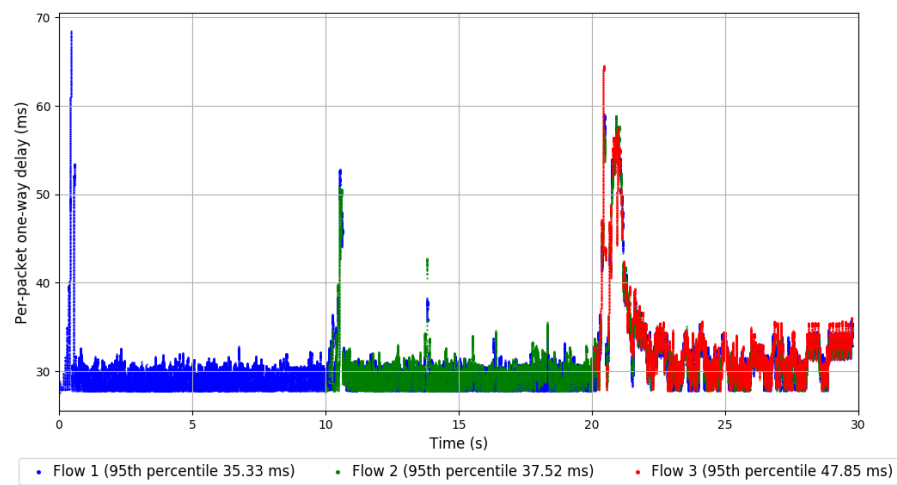
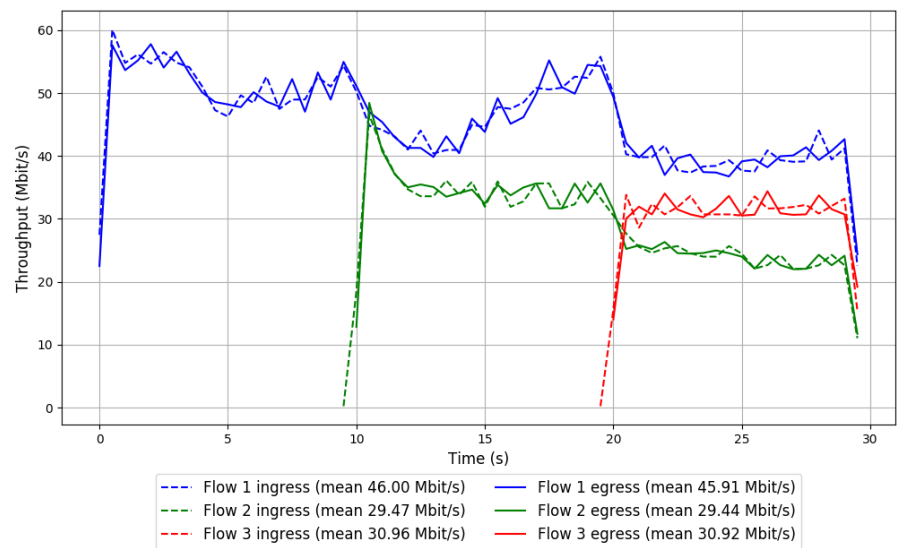


Run 6: Statistics of Indigo

Start at: 2017-12-12 01:17:49
End at: 2017-12-12 01:18:19
Local clock offset: -0.124 ms
Remote clock offset: -4.989 ms

Below is generated by plot.py at 2017-12-12 03:51:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 75.56 Mbit/s
95th percentile per-packet one-way delay: 37.323 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 45.91 Mbit/s
95th percentile per-packet one-way delay: 35.328 ms
Loss rate: 0.17%
-- Flow 2:
Average throughput: 29.44 Mbit/s
95th percentile per-packet one-way delay: 37.520 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 30.92 Mbit/s
95th percentile per-packet one-way delay: 47.847 ms
Loss rate: 0.08%

Run 6: Report of Indigo — Data Link

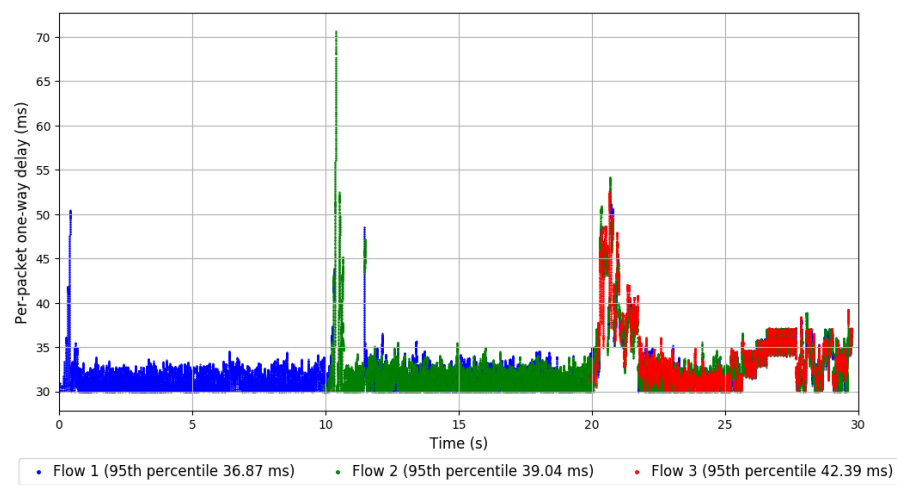
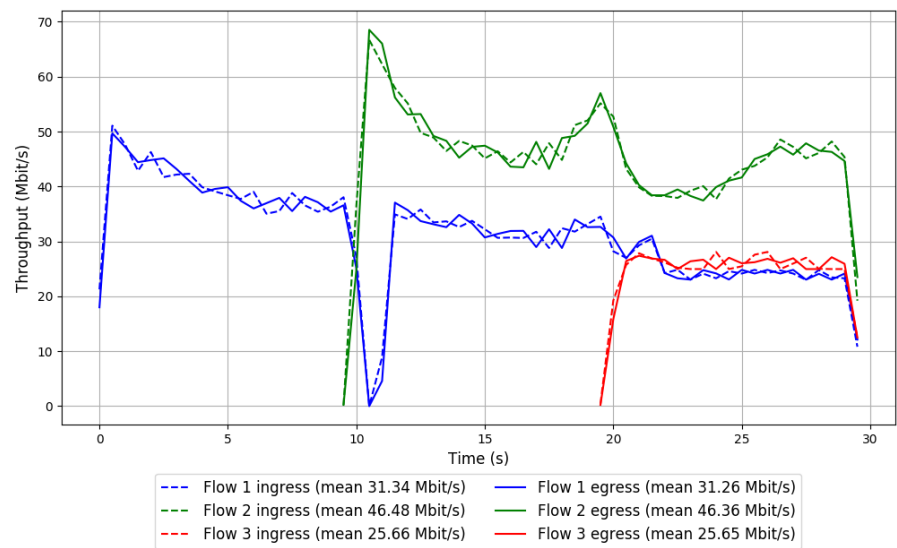


Run 7: Statistics of Indigo

Start at: 2017-12-12 01:42:35
End at: 2017-12-12 01:43:05
Local clock offset: 0.125 ms
Remote clock offset: -3.974 ms

Below is generated by plot.py at 2017-12-12 03:51:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 70.52 Mbit/s
95th percentile per-packet one-way delay: 38.750 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 31.26 Mbit/s
95th percentile per-packet one-way delay: 36.870 ms
Loss rate: 0.24%
-- Flow 2:
Average throughput: 46.36 Mbit/s
95th percentile per-packet one-way delay: 39.037 ms
Loss rate: 0.23%
-- Flow 3:
Average throughput: 25.65 Mbit/s
95th percentile per-packet one-way delay: 42.390 ms
Loss rate: 0.00%

Run 7: Report of Indigo — Data Link

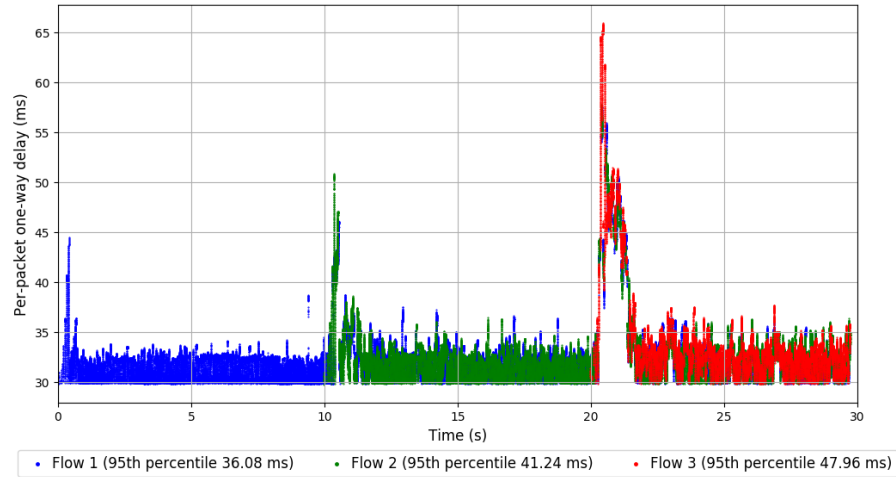
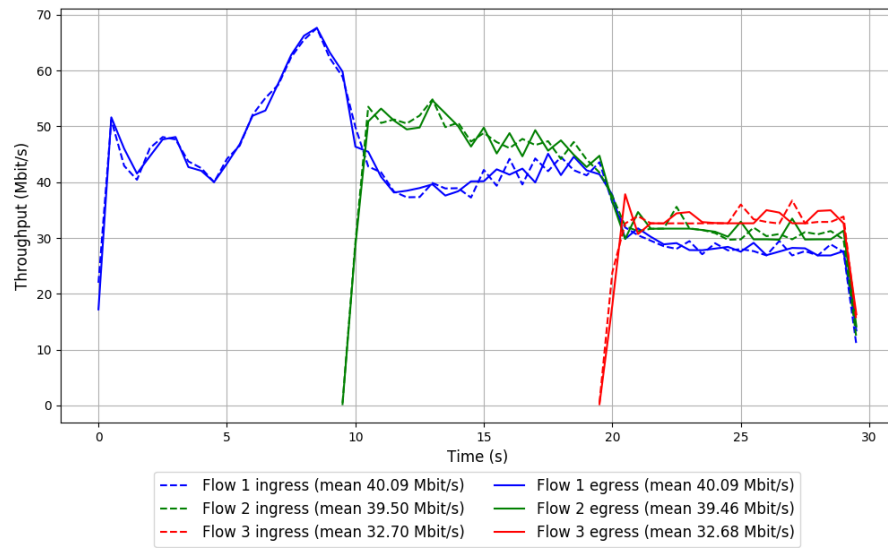


Run 8: Statistics of Indigo

Start at: 2017-12-12 02:07:56
End at: 2017-12-12 02:08:26
Local clock offset: 0.896 ms
Remote clock offset: -3.368 ms

Below is generated by plot.py at 2017-12-12 03:51:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 77.10 Mbit/s
95th percentile per-packet one-way delay: 41.037 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 40.09 Mbit/s
95th percentile per-packet one-way delay: 36.084 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 39.46 Mbit/s
95th percentile per-packet one-way delay: 41.236 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 32.68 Mbit/s
95th percentile per-packet one-way delay: 47.963 ms
Loss rate: 0.00%

Run 8: Report of Indigo — Data Link

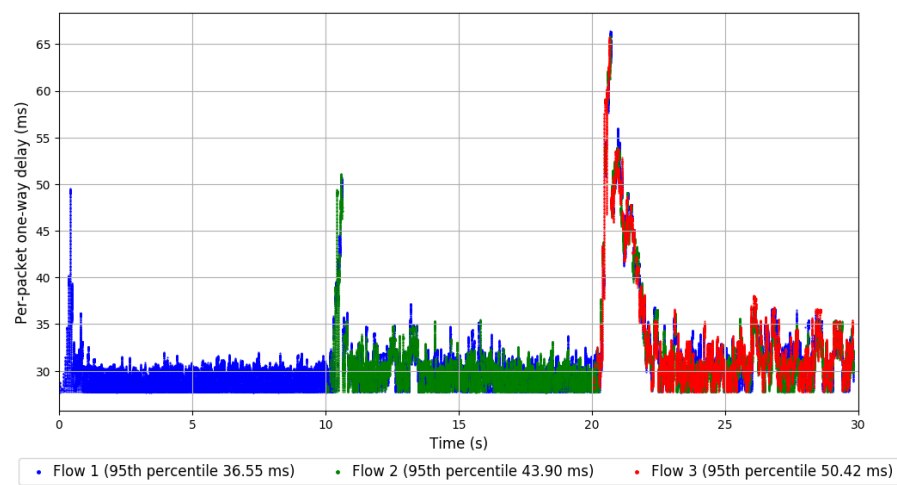
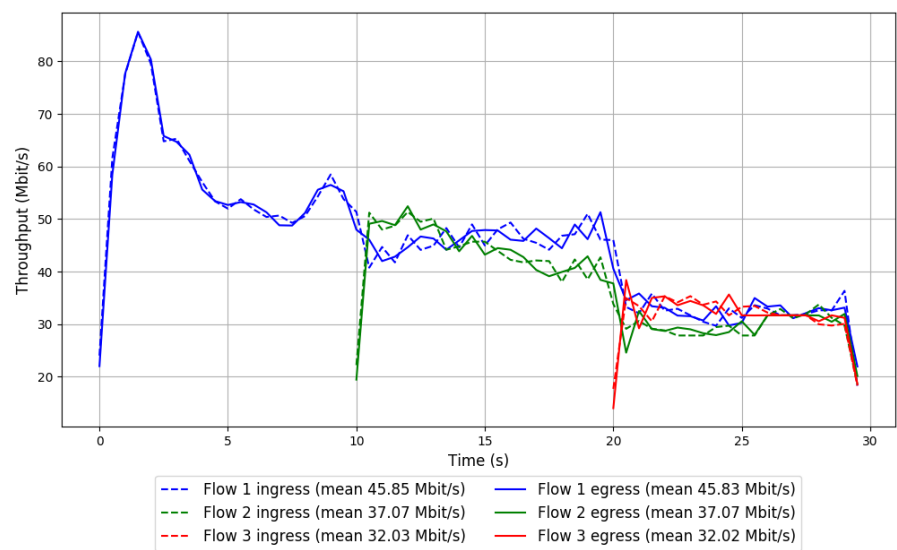


Run 9: Statistics of Indigo

Start at: 2017-12-12 02:32:30
End at: 2017-12-12 02:33:00
Local clock offset: 1.163 ms
Remote clock offset: -4.616 ms

Below is generated by plot.py at 2017-12-12 03:51:49
Datalink statistics
-- Total of 3 flows:
Average throughput: 80.90 Mbit/s
95th percentile per-packet one-way delay: 42.967 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 45.83 Mbit/s
95th percentile per-packet one-way delay: 36.552 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 37.07 Mbit/s
95th percentile per-packet one-way delay: 43.896 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 32.02 Mbit/s
95th percentile per-packet one-way delay: 50.424 ms
Loss rate: 0.00%

Run 9: Report of Indigo — Data Link

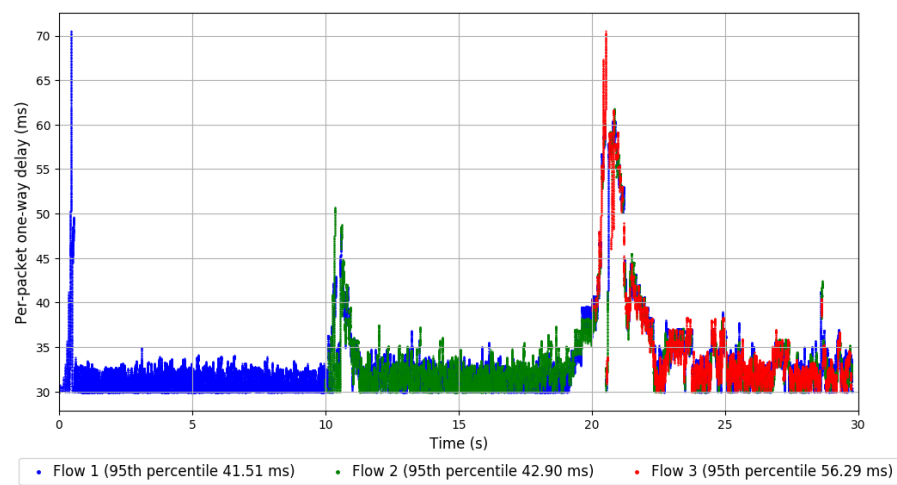
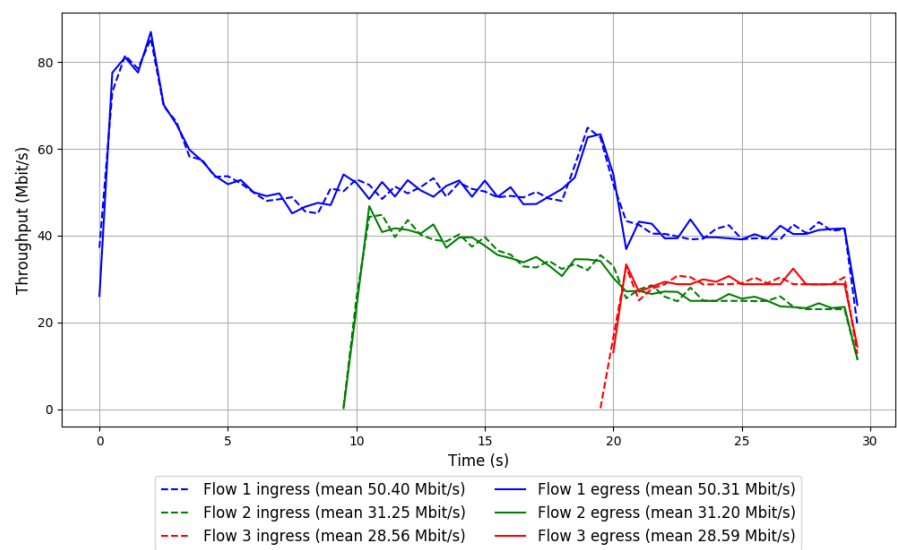


Run 10: Statistics of Indigo

Start at: 2017-12-12 02:57:16
End at: 2017-12-12 02:57:46
Local clock offset: 1.367 ms
Remote clock offset: -2.197 ms

Below is generated by plot.py at 2017-12-12 03:51:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 80.40 Mbit/s
95th percentile per-packet one-way delay: 42.751 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 50.31 Mbit/s
95th percentile per-packet one-way delay: 41.510 ms
Loss rate: 0.19%
-- Flow 2:
Average throughput: 31.20 Mbit/s
95th percentile per-packet one-way delay: 42.899 ms
Loss rate: 0.13%
-- Flow 3:
Average throughput: 28.59 Mbit/s
95th percentile per-packet one-way delay: 56.291 ms
Loss rate: 0.00%

Run 10: Report of Indigo — Data Link

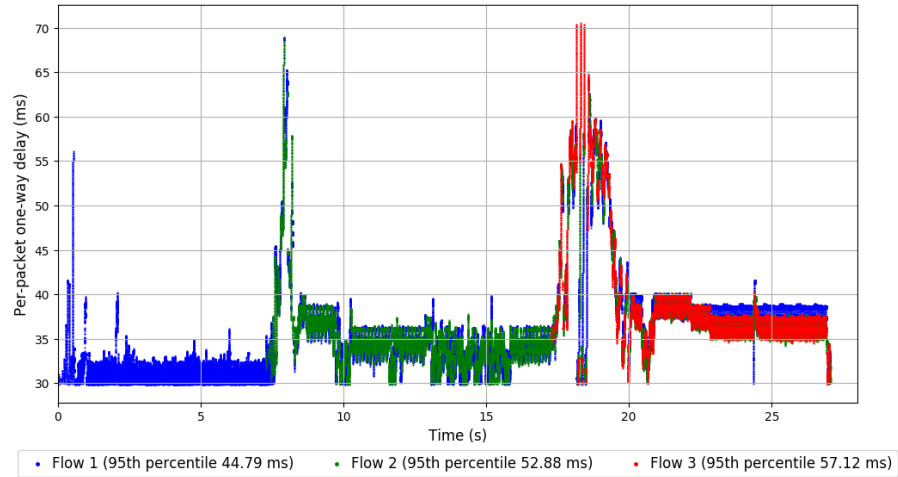
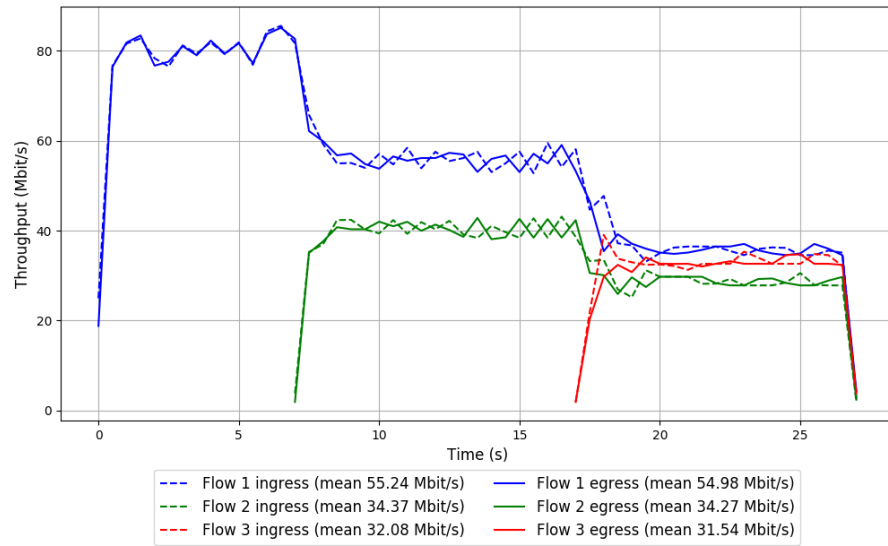


```
Run 1: Statistics of Indigo-calib

Start at: 2017-12-11 23:29:24
End at: 2017-12-11 23:29:54
Local clock offset: -0.32 ms
Remote clock offset: 2.398 ms

# Below is generated by plot.py at 2017-12-12 03:52:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.39 Mbit/s
95th percentile per-packet one-way delay: 51.419 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 54.98 Mbit/s
95th percentile per-packet one-way delay: 44.792 ms
Loss rate: 0.46%
-- Flow 2:
Average throughput: 34.27 Mbit/s
95th percentile per-packet one-way delay: 52.879 ms
Loss rate: 0.29%
-- Flow 3:
Average throughput: 31.54 Mbit/s
95th percentile per-packet one-way delay: 57.116 ms
Loss rate: 1.74%
```

Run 1: Report of Indigo-calib — Data Link

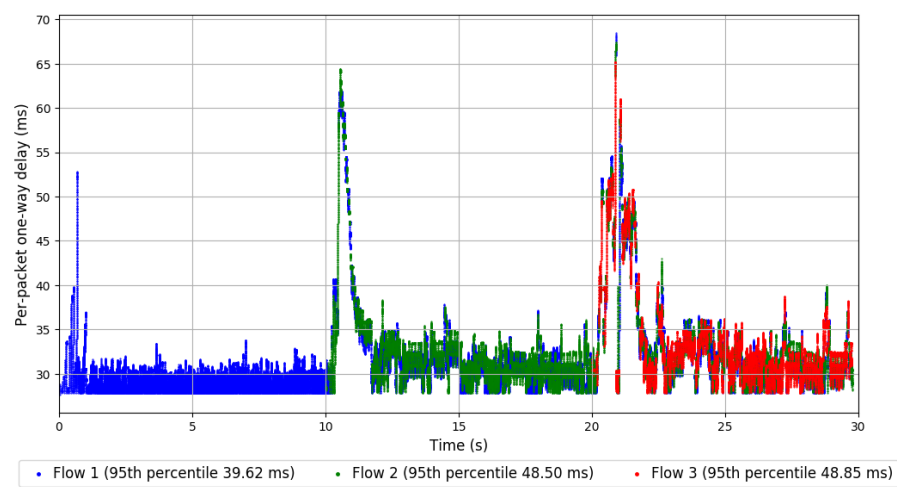
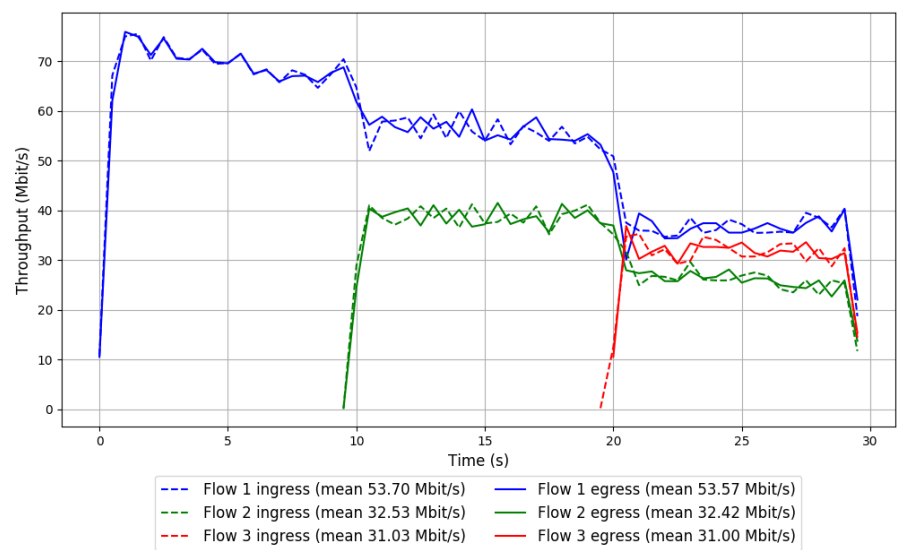


```
Run 2: Statistics of Indigo-calib

Start at: 2017-12-11 23:51:56
End at: 2017-12-11 23:52:26
Local clock offset: -0.169 ms
Remote clock offset: 0.476 ms

# Below is generated by plot.py at 2017-12-12 03:52:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.25 Mbit/s
95th percentile per-packet one-way delay: 45.670 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 53.57 Mbit/s
95th percentile per-packet one-way delay: 39.617 ms
Loss rate: 0.22%
-- Flow 2:
Average throughput: 32.42 Mbit/s
95th percentile per-packet one-way delay: 48.501 ms
Loss rate: 0.34%
-- Flow 3:
Average throughput: 31.00 Mbit/s
95th percentile per-packet one-way delay: 48.851 ms
Loss rate: 0.08%
```

Run 2: Report of Indigo-calib — Data Link

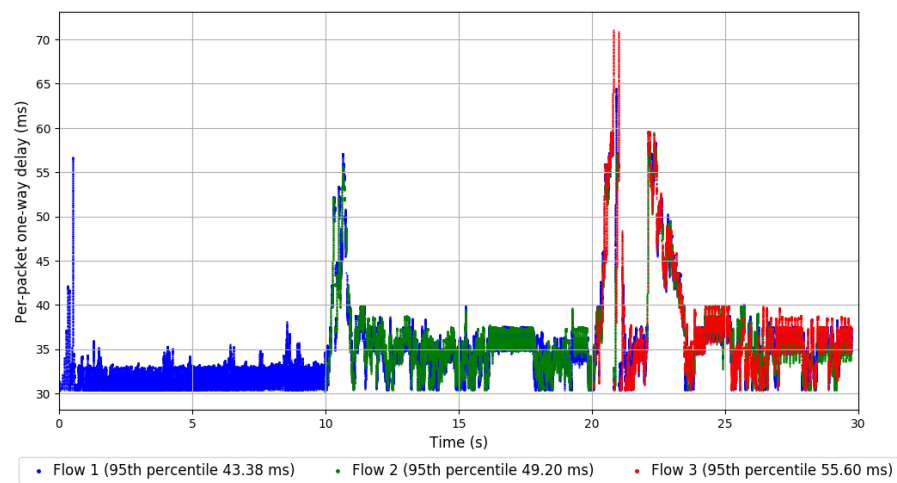
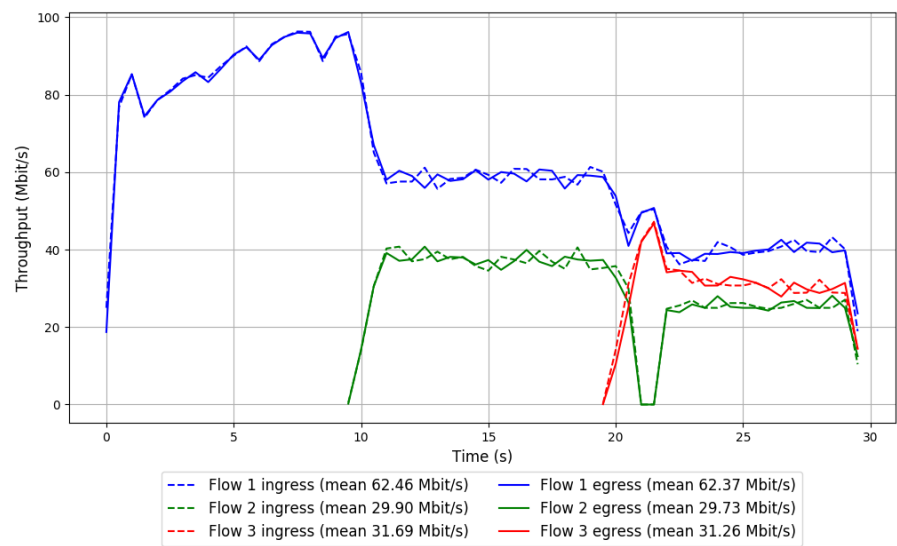


```
Run 3: Statistics of Indigo-calib

Start at: 2017-12-12 00:14:26
End at: 2017-12-12 00:14:56
Local clock offset: -0.504 ms
Remote clock offset: 2.361 ms

# Below is generated by plot.py at 2017-12-12 03:52:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.36 Mbit/s
95th percentile per-packet one-way delay: 47.157 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 62.37 Mbit/s
95th percentile per-packet one-way delay: 43.378 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 29.73 Mbit/s
95th percentile per-packet one-way delay: 49.204 ms
Loss rate: 0.57%
-- Flow 3:
Average throughput: 31.26 Mbit/s
95th percentile per-packet one-way delay: 55.604 ms
Loss rate: 1.29%
```

Run 3: Report of Indigo-calib — Data Link



Run 4: Statistics of Indigo-calib

Start at: 2017-12-12 00:36:58

End at: 2017-12-12 00:37:28

Local clock offset: -0.75 ms

Remote clock offset: 0.939 ms

Below is generated by plot.py at 2017-12-12 03:52:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.12 Mbit/s

95th percentile per-packet one-way delay: 48.439 ms

Loss rate: 0.16%

-- Flow 1:

Average throughput: 56.86 Mbit/s

95th percentile per-packet one-way delay: 44.156 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 30.24 Mbit/s

95th percentile per-packet one-way delay: 52.939 ms

Loss rate: 0.30%

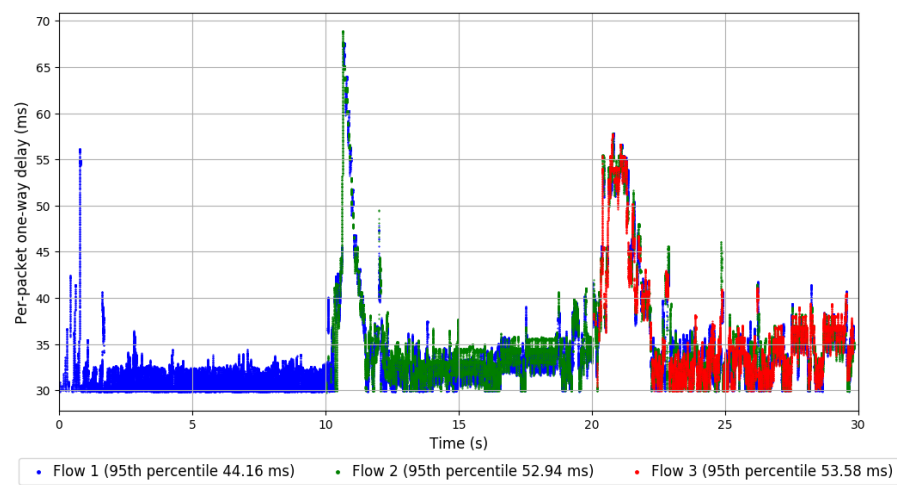
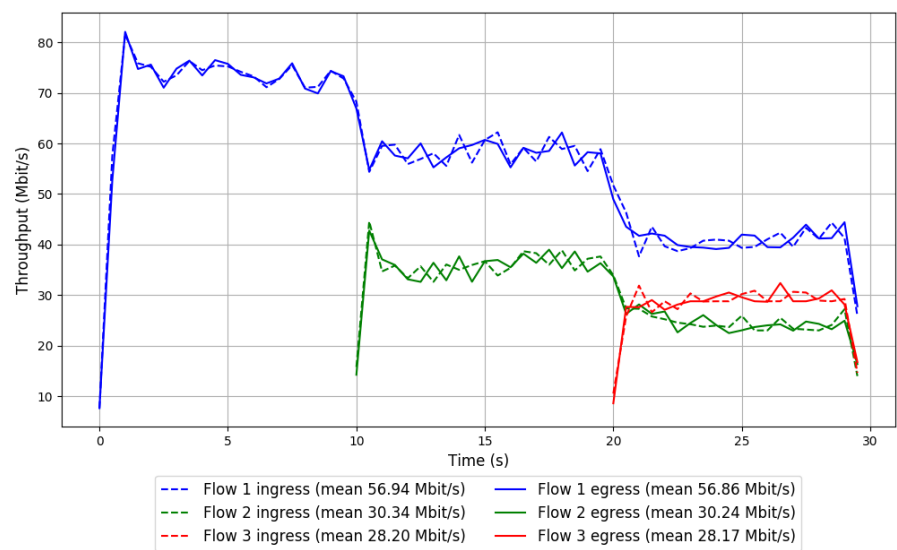
-- Flow 3:

Average throughput: 28.17 Mbit/s

95th percentile per-packet one-way delay: 53.584 ms

Loss rate: 0.14%

Run 4: Report of Indigo-calib — Data Link

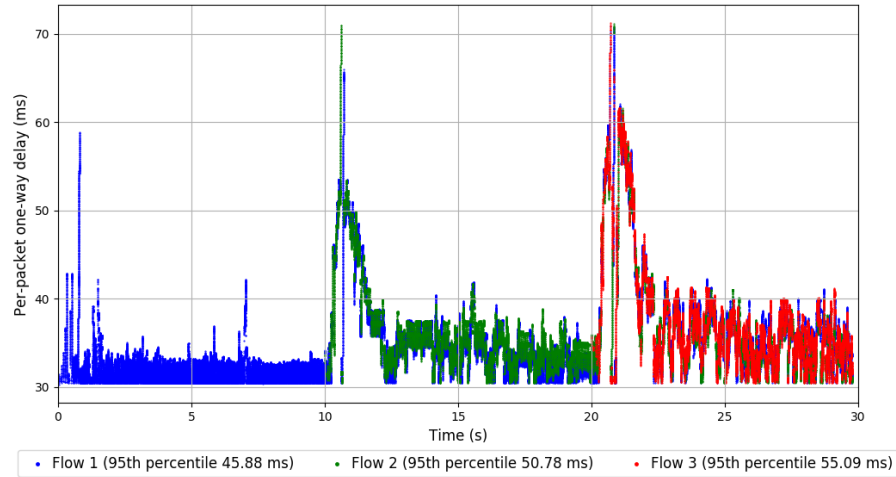
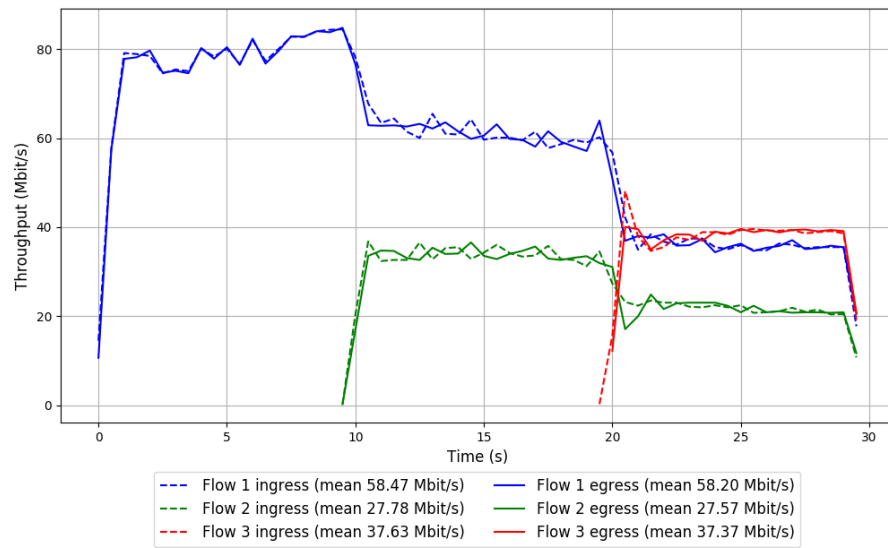


Run 5: Statistics of Indigo-calib

Start at: 2017-12-12 01:00:00
End at: 2017-12-12 01:00:30
Local clock offset: -0.45 ms
Remote clock offset: -0.886 ms

Below is generated by plot.py at 2017-12-12 03:52:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 88.77 Mbit/s
95th percentile per-packet one-way delay: 49.378 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 58.20 Mbit/s
95th percentile per-packet one-way delay: 45.876 ms
Loss rate: 0.46%
-- Flow 2:
Average throughput: 27.57 Mbit/s
95th percentile per-packet one-way delay: 50.783 ms
Loss rate: 0.76%
-- Flow 3:
Average throughput: 37.37 Mbit/s
95th percentile per-packet one-way delay: 55.094 ms
Loss rate: 0.72%

Run 5: Report of Indigo-calib — Data Link

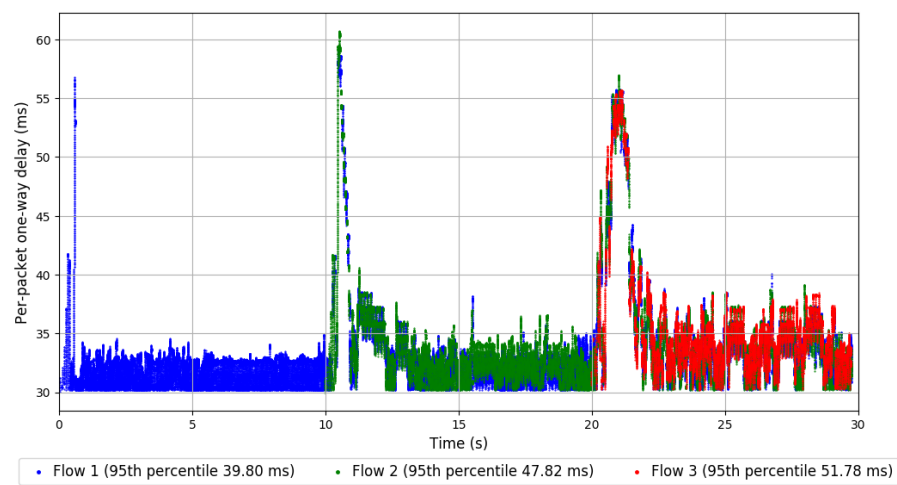
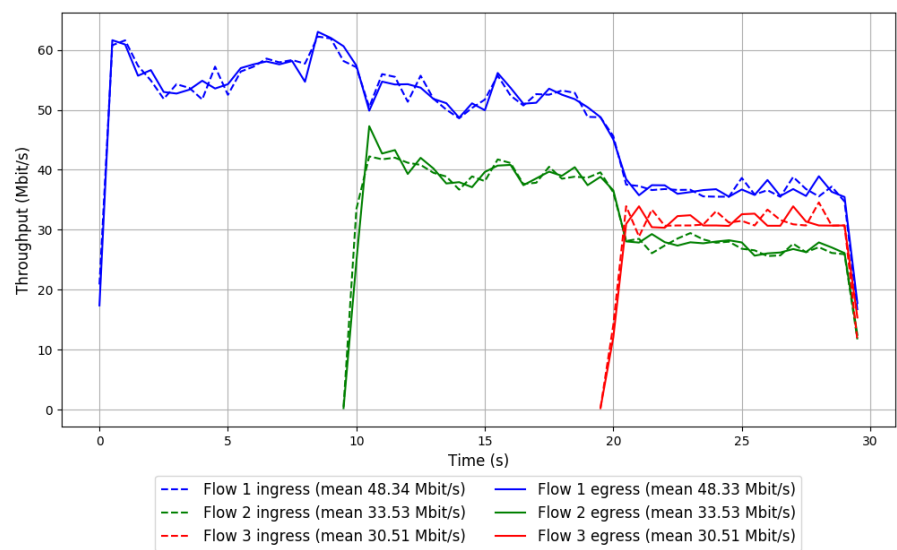


Run 6: Statistics of Indigo-calib

Start at: 2017-12-12 01:24:39
End at: 2017-12-12 01:25:09
Local clock offset: 0.058 ms
Remote clock offset: -2.871 ms

Below is generated by plot.py at 2017-12-12 03:52:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 80.64 Mbit/s
95th percentile per-packet one-way delay: 43.775 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 48.33 Mbit/s
95th percentile per-packet one-way delay: 39.805 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 33.53 Mbit/s
95th percentile per-packet one-way delay: 47.820 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 30.51 Mbit/s
95th percentile per-packet one-way delay: 51.785 ms
Loss rate: 0.00%

Run 6: Report of Indigo-calib — Data Link

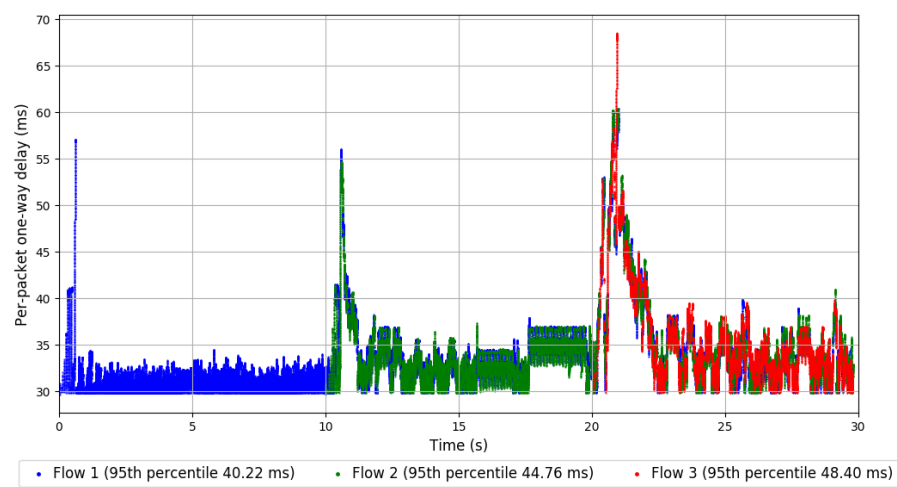
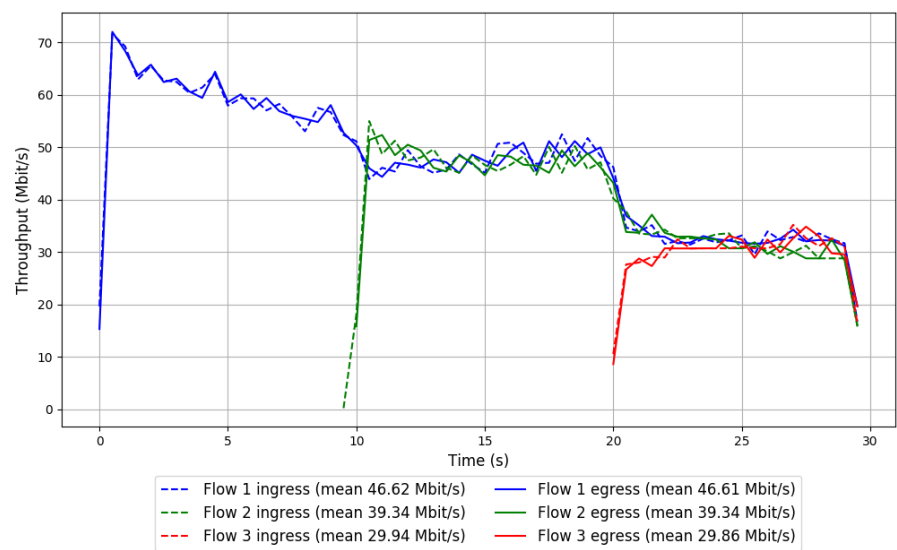


Run 7: Statistics of Indigo-calib

Start at: 2017-12-12 01:49:40
End at: 2017-12-12 01:50:10
Local clock offset: 0.421 ms
Remote clock offset: -3.749 ms

Below is generated by plot.py at 2017-12-12 03:52:49
Datalink statistics
-- Total of 3 flows:
Average throughput: 82.50 Mbit/s
95th percentile per-packet one-way delay: 42.722 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 46.61 Mbit/s
95th percentile per-packet one-way delay: 40.219 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 39.34 Mbit/s
95th percentile per-packet one-way delay: 44.759 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 29.86 Mbit/s
95th percentile per-packet one-way delay: 48.395 ms
Loss rate: 0.24%

Run 7: Report of Indigo-calib — Data Link

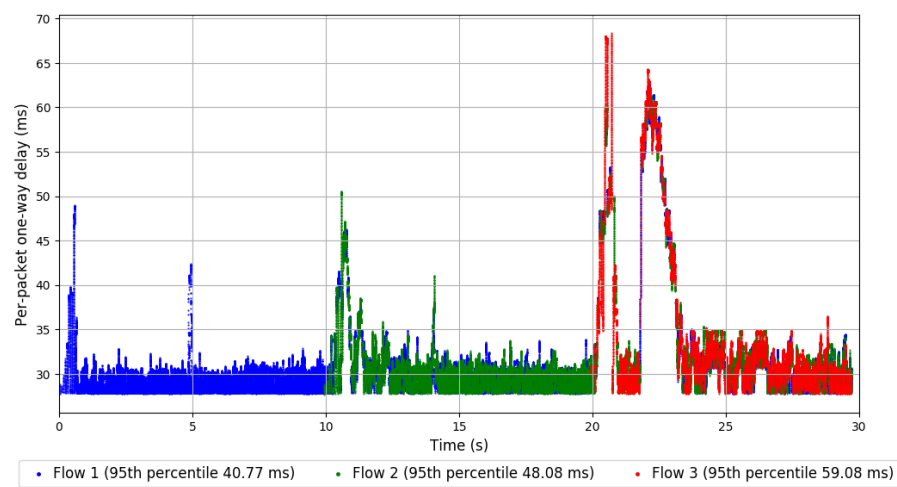
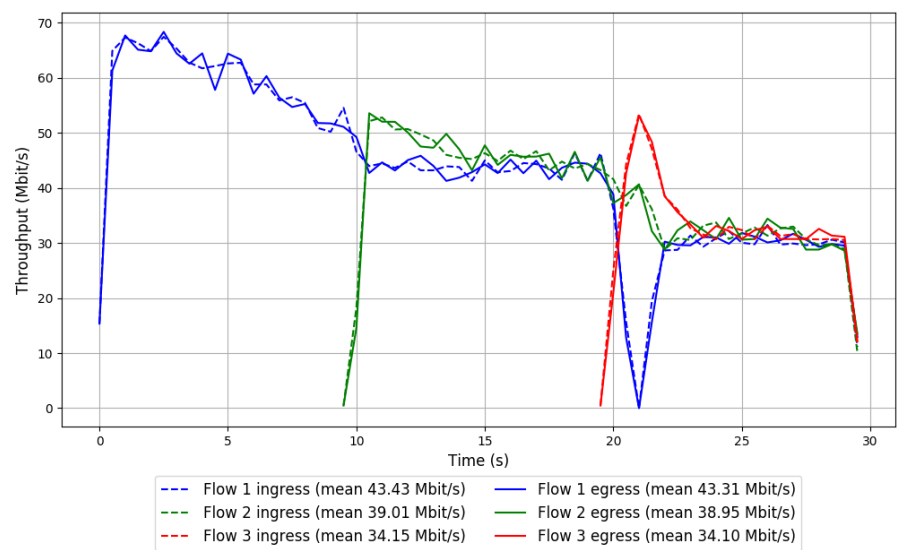


Run 8: Statistics of Indigo-calib

Start at: 2017-12-12 02:14:52
End at: 2017-12-12 02:15:22
Local clock offset: 1.042 ms
Remote clock offset: -5.034 ms

Below is generated by plot.py at 2017-12-12 03:52:49
Datalink statistics
-- Total of 3 flows:
Average throughput: 80.44 Mbit/s
95th percentile per-packet one-way delay: 48.315 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 43.31 Mbit/s
95th percentile per-packet one-way delay: 40.765 ms
Loss rate: 0.27%
-- Flow 2:
Average throughput: 38.95 Mbit/s
95th percentile per-packet one-way delay: 48.077 ms
Loss rate: 0.14%
-- Flow 3:
Average throughput: 34.10 Mbit/s
95th percentile per-packet one-way delay: 59.076 ms
Loss rate: 0.18%

Run 8: Report of Indigo-calib — Data Link

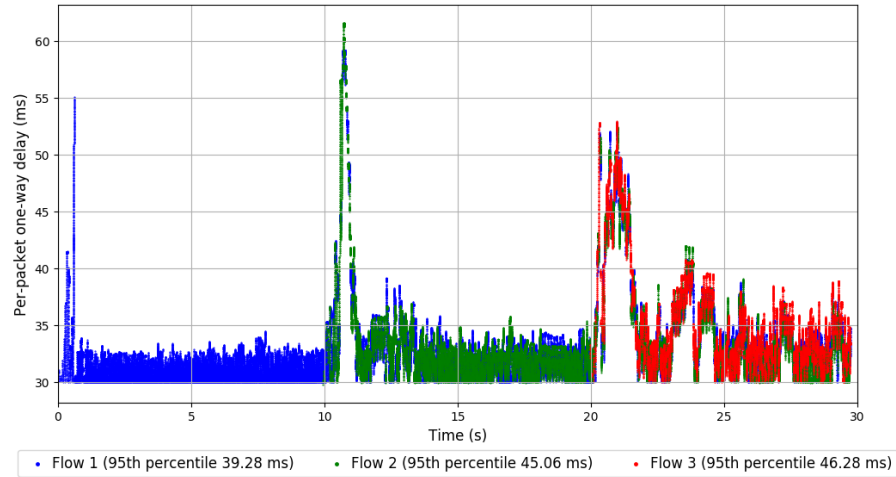
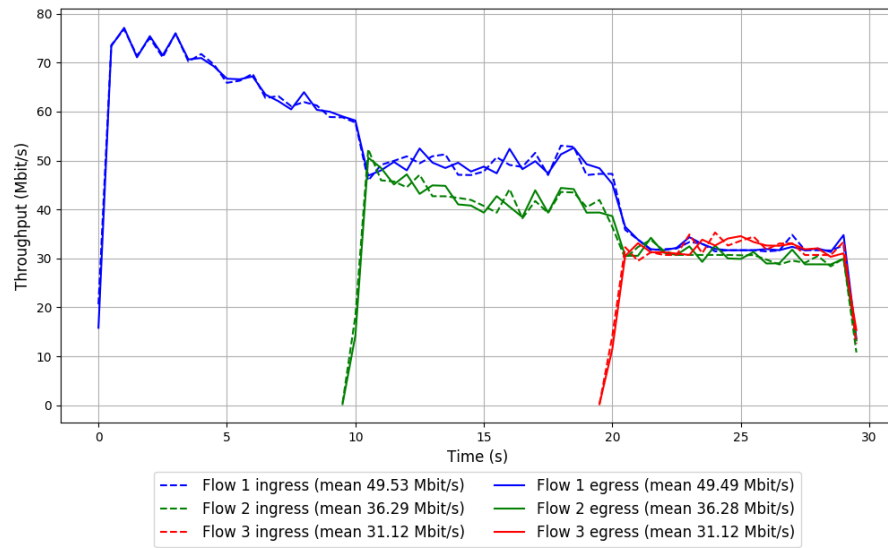


Run 9: Statistics of Indigo-calib

Start at: 2017-12-12 02:39:14
End at: 2017-12-12 02:39:44
Local clock offset: 1.207 ms
Remote clock offset: -2.307 ms

Below is generated by plot.py at 2017-12-12 03:52:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 83.83 Mbit/s
95th percentile per-packet one-way delay: 43.672 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 49.49 Mbit/s
95th percentile per-packet one-way delay: 39.277 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 36.28 Mbit/s
95th percentile per-packet one-way delay: 45.056 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 31.12 Mbit/s
95th percentile per-packet one-way delay: 46.284 ms
Loss rate: 0.00%

Run 9: Report of Indigo-calib — Data Link



Run 10: Statistics of Indigo-calib

Start at: 2017-12-12 03:04:25
End at: 2017-12-12 03:04:55
Local clock offset: 1.409 ms
Remote clock offset: -2.198 ms

Below is generated by plot.py at 2017-12-12 03:52:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 82.82 Mbit/s
95th percentile per-packet one-way delay: 42.443 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 54.32 Mbit/s
95th percentile per-packet one-way delay: 41.311 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 29.94 Mbit/s
95th percentile per-packet one-way delay: 44.817 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 26.39 Mbit/s
95th percentile per-packet one-way delay: 43.932 ms
Loss rate: 0.00%

Run 10: Report of Indigo-calib — Data Link

