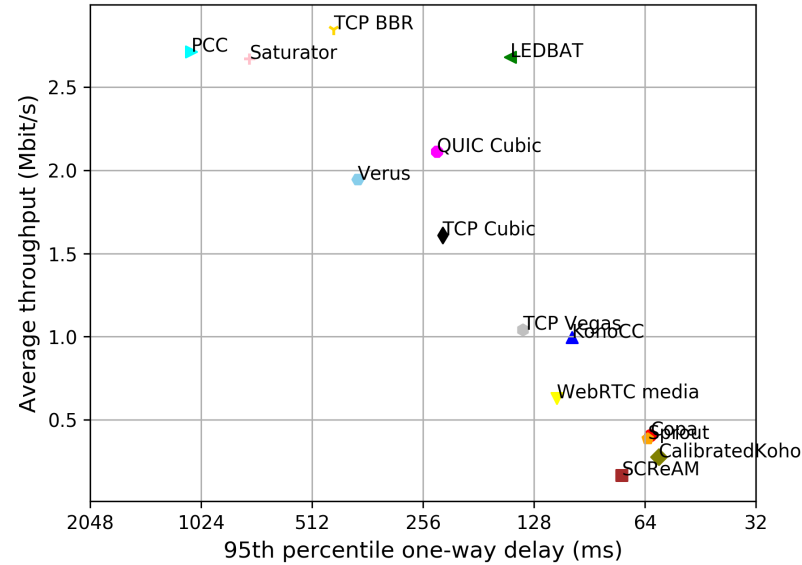


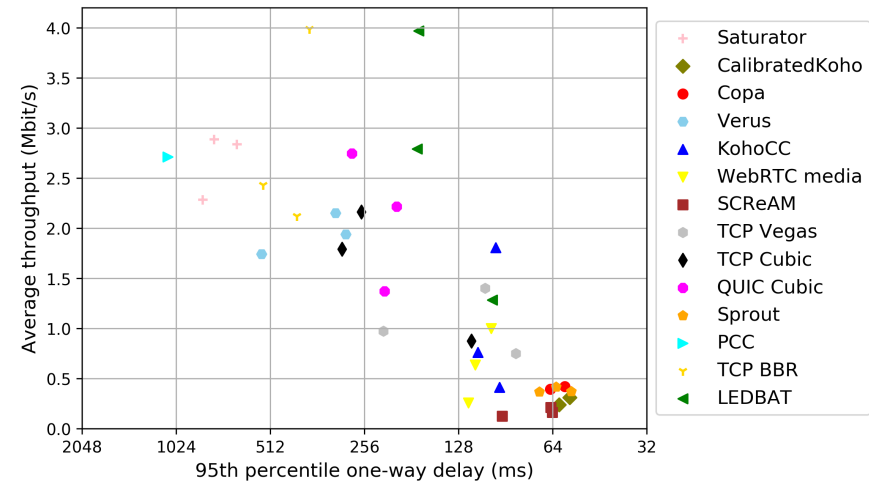
Pantheon Summary (Generated at Tue, 25 Jul 2017 08:21:37 +0000 with pantheon version 266b116f0817a07d000b4d181ce187fd27d3e654)
Repeated the test of 15 congestion control schemes 3 times.
Each test lasted for 30 seconds running 1 flow.
Data path: AWS India 1 Ethernet (*local*) → India ppp0 (*remote*).
NTP offset measured against nets.org.sg and has been applied to correct the timestamps in logs.

```
git branch: master @ 266b116f0817a07d000b4d181ce187fd27d3e654
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/genericCC @ dae96123232f1bcb37725348fa2378691ce26725
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-stimuli @ fc73a85ca16c34366d1888dc8a0d0d88d4ebf2a7
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 @ f1a14bffe749737437f61b1eaeeb30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

test from AWS India 1 Ethernet to India ppp0, 3 runs of 30s each per scheme
(mean of all runs by scheme)



test from AWS India 1 Ethernet to India ppp0, 3 runs of 30s each per scheme



| scheme | # runs | mean avg tput (Mbit/s) flow 1 | mean 95th-%ile delay (ms) flow 1 | mean loss rate (%) flow 1 |
|----------------|--------|----------------------------------|-------------------------------------|------------------------------|
| TCP BBR | 3 | 2.85 | 448.68 | 1.46 |
| CalibratedKoho | 3 | 0.28 | 58.80 | 0.86 |
| Copa | 3 | 0.41 | 61.89 | 0.00 |
| TCP Cubic | 3 | 1.61 | 226.95 | 1.25 |
| KohoCC | 3 | 1.00 | 101.10 | 0.02 |
| LEDBAT | 3 | 2.68 | 148.54 | 0.53 |
| PCC | 3 | 2.71 | 1089.69 | 41.97 |
| QUIC Cubic | 3 | 2.11 | 234.87 | 0.72 |
| Saturator | 3 | 2.67 | 757.62 | 1.61 |
| SCReAM | 3 | 0.16 | 74.05 | 0.28 |
| Sprout | 3 | 0.39 | 62.97 | 0.31 |
| TaoVA-100x | 3 | nan | nan | nan |
| TCP Vegas | 3 | 1.04 | 137.51 | 0.48 |
| Verus | 3 | 1.94 | 385.89 | 1.12 |
| WebRTC media | 3 | 0.63 | 111.10 | 0.42 |

Run 1: Statistics of TCP BBR

Start at: Tue, 25 Jul 2017 06:51:07 +0000

End at: Tue, 25 Jul 2017 06:51:37 +0000

Local clock offset: 1.61 ms

Remote clock offset: -17.176 ms

Below is generated by plot.py at Tue, 25 Jul 2017 08:21:08 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.99 Mbit/s

95th percentile per-packet one-way delay: 384.657 ms

Loss rate: 1.24%

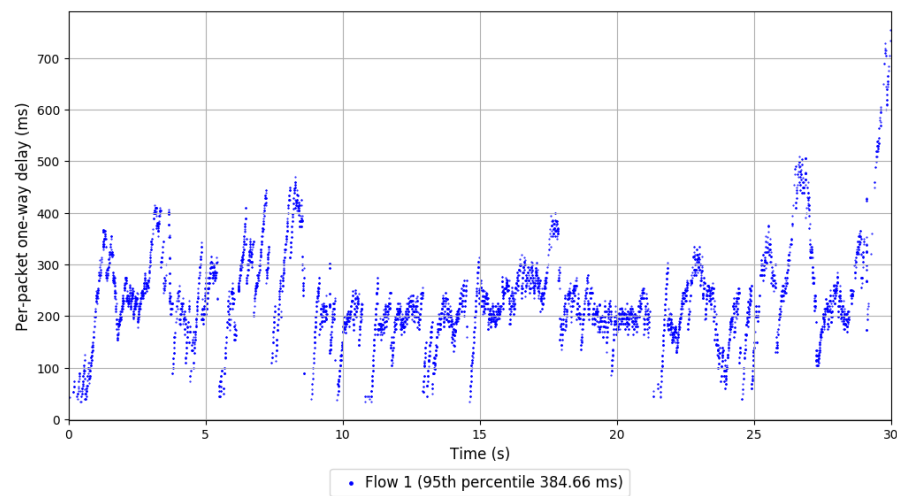
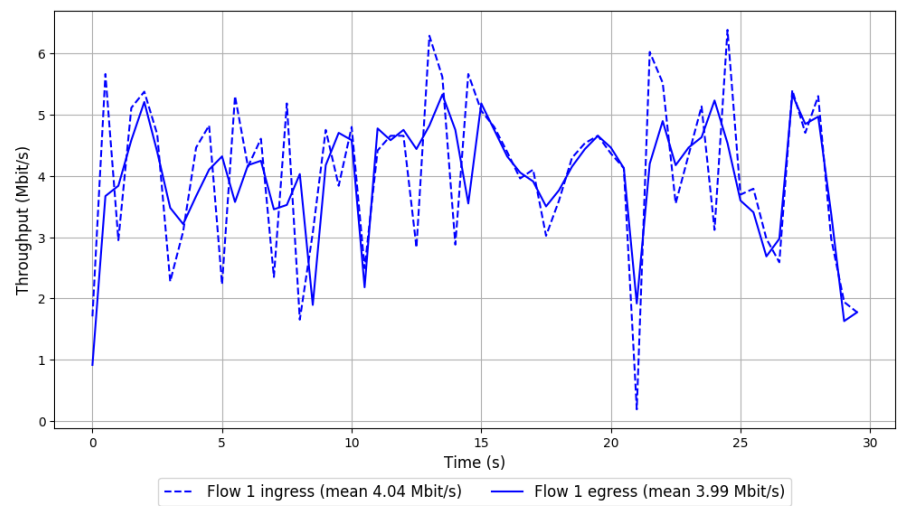
-- Flow 1:

Average throughput: 3.99 Mbit/s

95th percentile per-packet one-way delay: 384.657 ms

Loss rate: 1.24%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: Tue, 25 Jul 2017 07:07:30 +0000

End at: Tue, 25 Jul 2017 07:08:00 +0000

Local clock offset: 0.196 ms

Remote clock offset: -16.825 ms

Below is generated by plot.py at Tue, 25 Jul 2017 08:21:08 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 421.471 ms

Loss rate: 1.40%

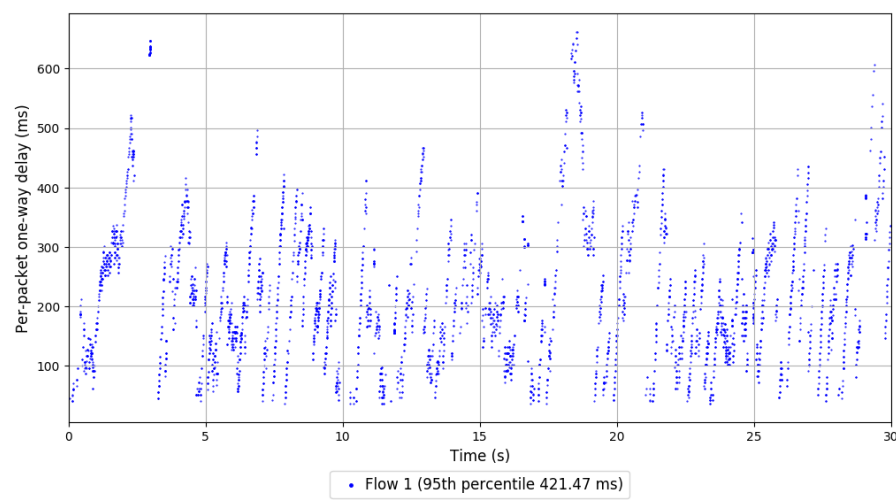
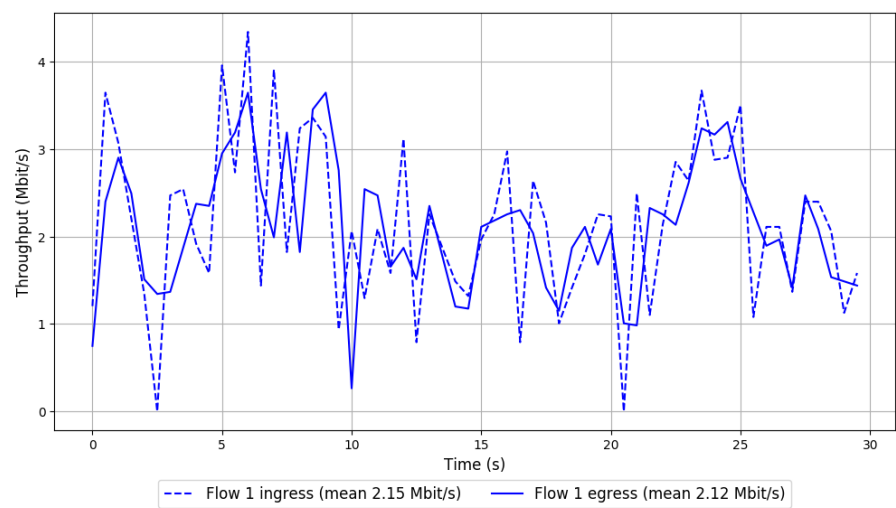
-- Flow 1:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 421.471 ms

Loss rate: 1.40%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: Tue, 25 Jul 2017 07:23:48 +0000

End at: Tue, 25 Jul 2017 07:24:18 +0000

Local clock offset: -1.645 ms

Remote clock offset: -19.351 ms

Below is generated by plot.py at Tue, 25 Jul 2017 08:21:10 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.43 Mbit/s

95th percentile per-packet one-way delay: 539.906 ms

Loss rate: 1.73%

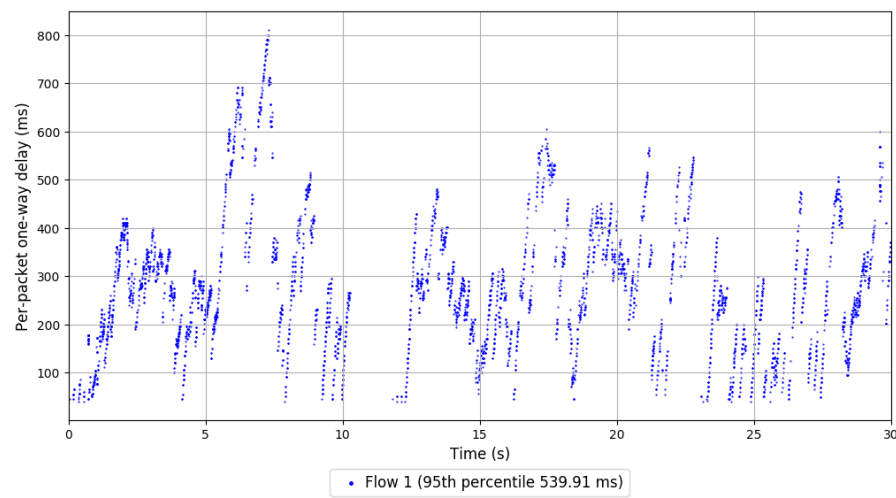
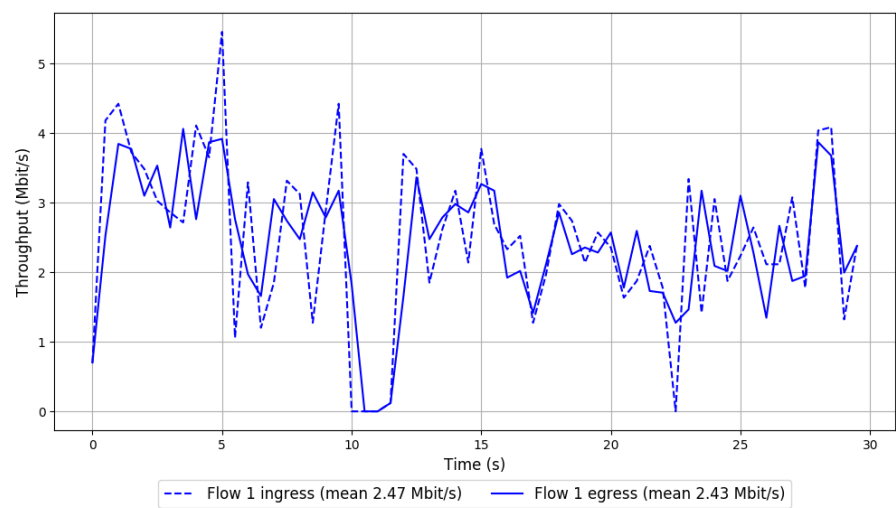
-- Flow 1:

Average throughput: 2.43 Mbit/s

95th percentile per-packet one-way delay: 539.906 ms

Loss rate: 1.73%

Run 3: Report of TCP BBR — Data Link



Run 1: Statistics of CalibratedKoho

Start at: Tue, 25 Jul 2017 06:55:31 +0000

End at: Tue, 25 Jul 2017 06:56:01 +0000

Local clock offset: 2.206 ms

Remote clock offset: -17.137 ms

Below is generated by plot.py at Tue, 25 Jul 2017 08:21:10 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.24 Mbit/s

95th percentile per-packet one-way delay: 61.117 ms

Loss rate: 0.83%

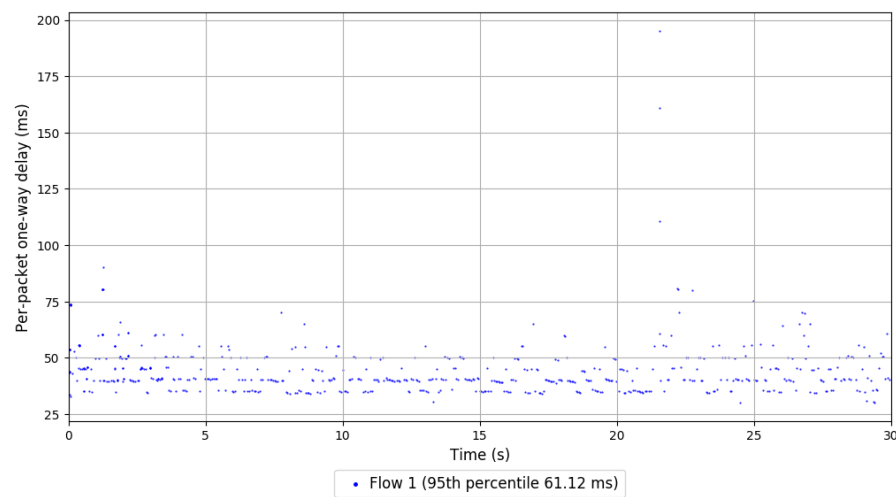
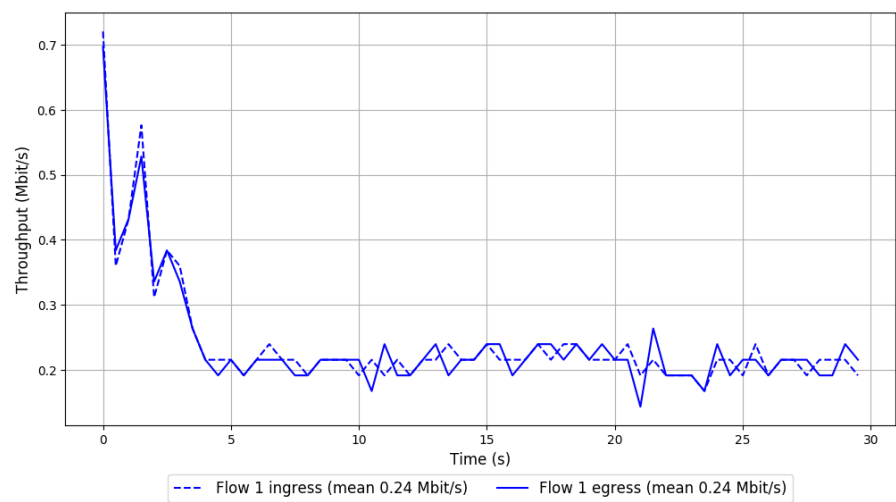
-- Flow 1:

Average throughput: 0.24 Mbit/s

95th percentile per-packet one-way delay: 61.117 ms

Loss rate: 0.83%

Run 1: Report of CalibratedKoho — Data Link



Run 2: Statistics of CalibratedKoho

Start at: Tue, 25 Jul 2017 07:11:52 +0000

End at: Tue, 25 Jul 2017 07:12:22 +0000

Local clock offset: 1.014 ms

Remote clock offset: -17.867 ms

Below is generated by plot.py at Tue, 25 Jul 2017 08:21:10 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.31 Mbit/s

95th percentile per-packet one-way delay: 56.479 ms

Loss rate: 0.89%

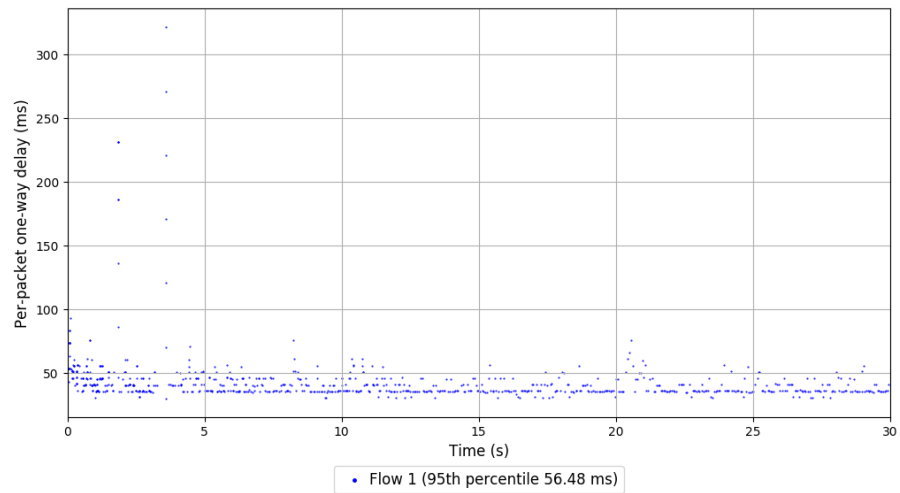
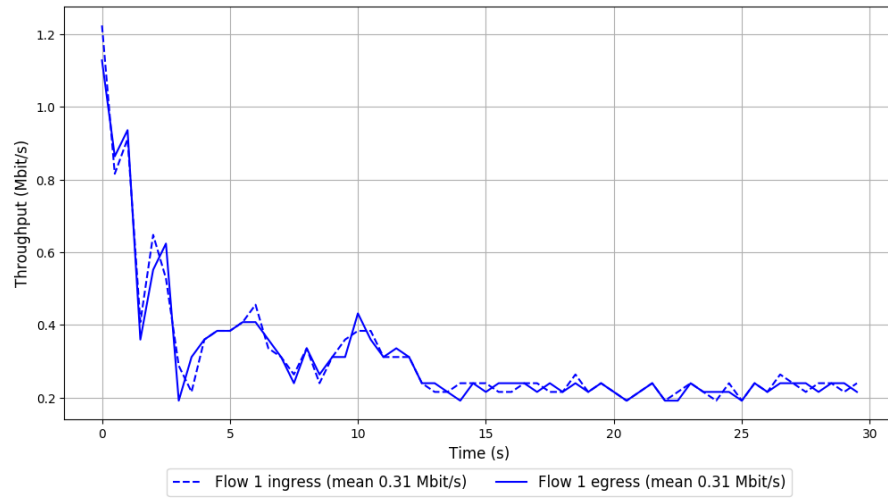
-- Flow 1:

Average throughput: 0.31 Mbit/s

95th percentile per-packet one-way delay: 56.479 ms

Loss rate: 0.89%

Run 2: Report of CalibratedKoho — Data Link



Run 3: Statistics of CalibratedKoho

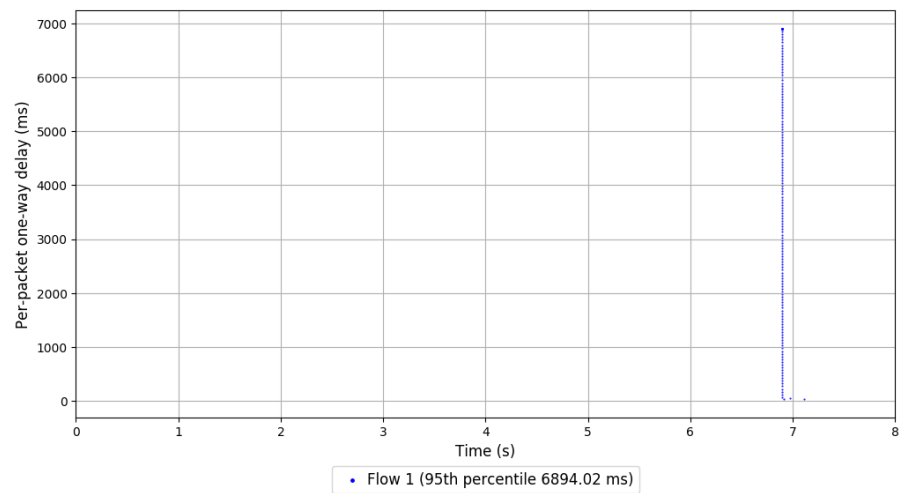
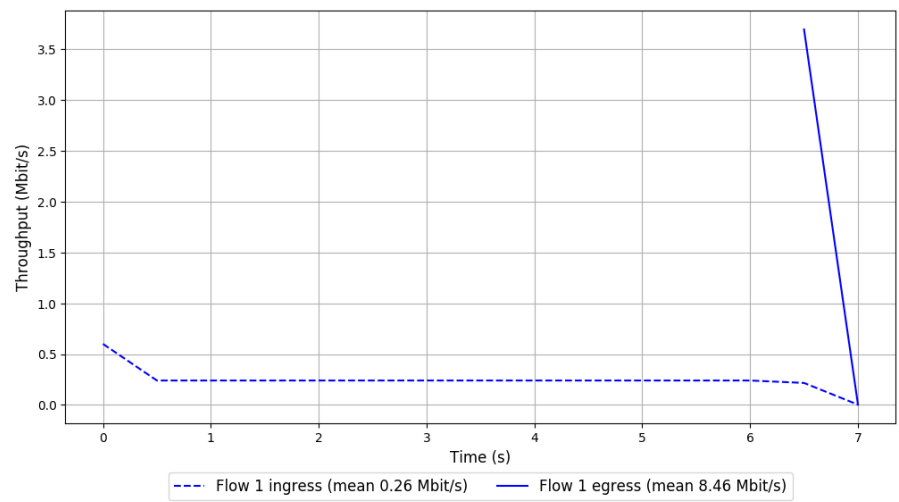
Start at: Tue, 25 Jul 2017 07:28:10 +0000

End at: Tue, 25 Jul 2017 07:28:40 +0000

Local clock offset: 1.057 ms

Remote clock offset: -19.44 ms

Run 3: Report of CalibratedKoho — Data Link



Run 1: Statistics of Copa

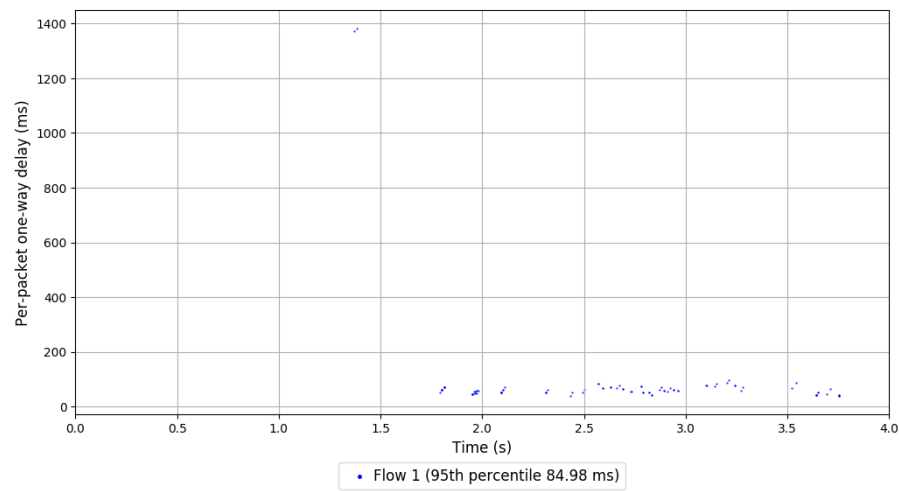
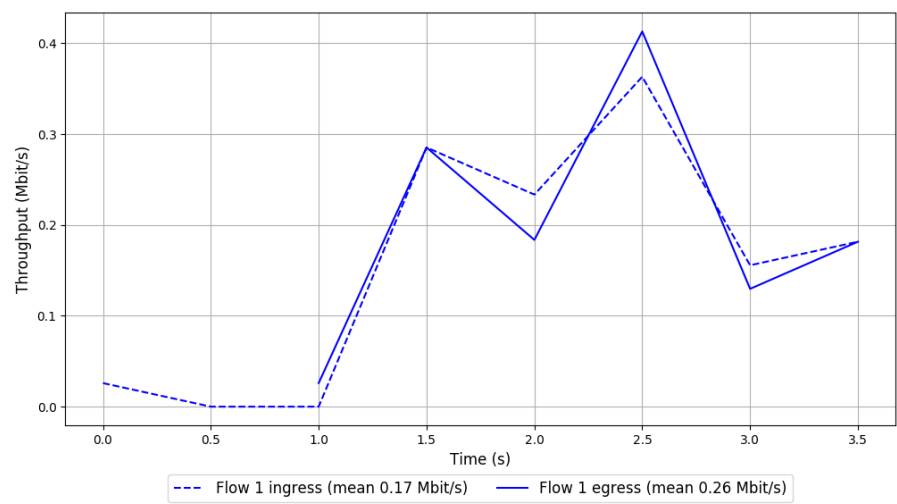
Start at: Tue, 25 Jul 2017 06:54:26 +0000

End at: Tue, 25 Jul 2017 06:54:56 +0000

Local clock offset: 0.834 ms

Remote clock offset: -16.293 ms

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: Tue, 25 Jul 2017 07:10:46 +0000

End at: Tue, 25 Jul 2017 07:11:16 +0000

Local clock offset: -0.254 ms

Remote clock offset: -17.192 ms

Below is generated by plot.py at Tue, 25 Jul 2017 08:21:12 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 65.210 ms

Loss rate: 0.00%

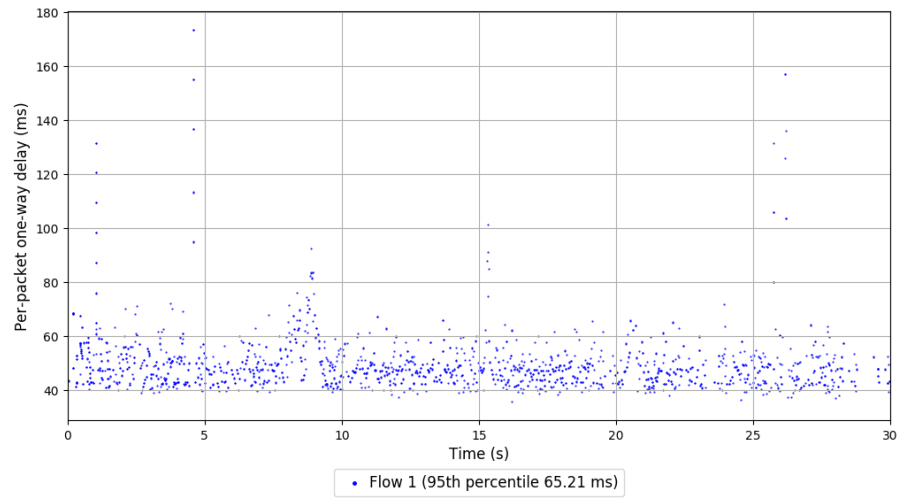
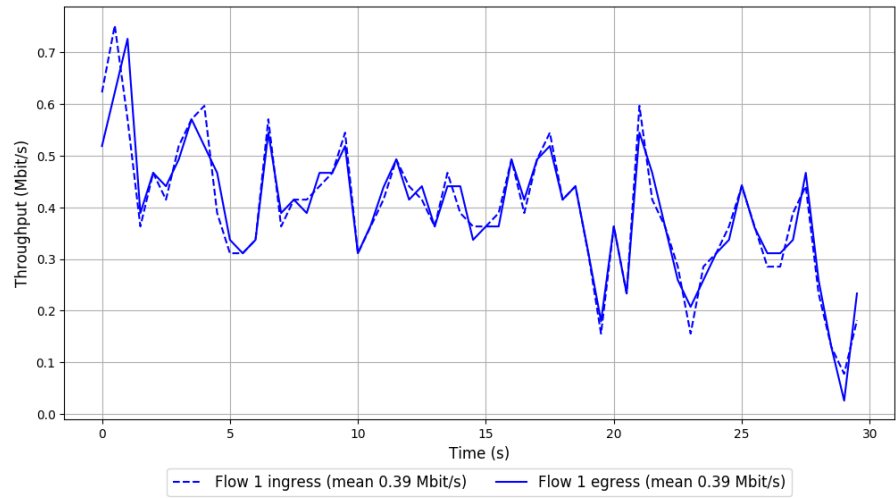
-- Flow 1:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 65.210 ms

Loss rate: 0.00%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: Tue, 25 Jul 2017 07:27:05 +0000

End at: Tue, 25 Jul 2017 07:27:35 +0000

Local clock offset: -0.872 ms

Remote clock offset: -18.054 ms

Below is generated by plot.py at Tue, 25 Jul 2017 08:21:12 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 58.567 ms

Loss rate: 0.00%

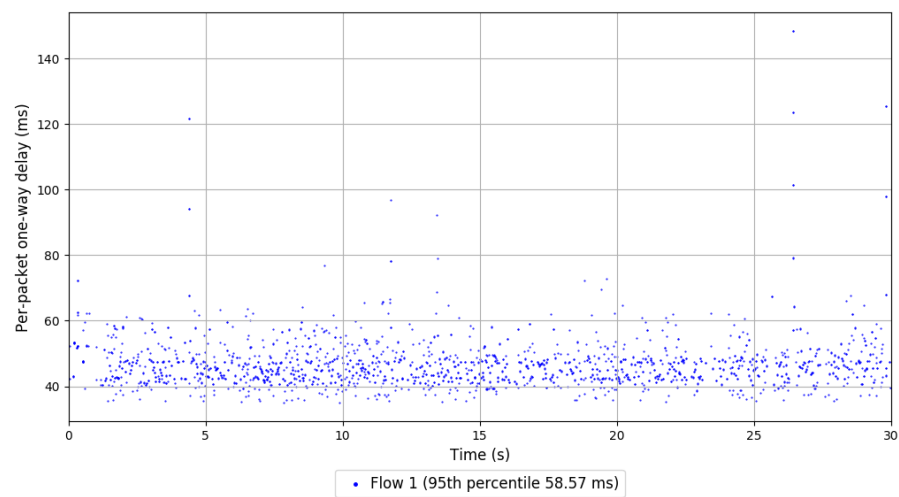
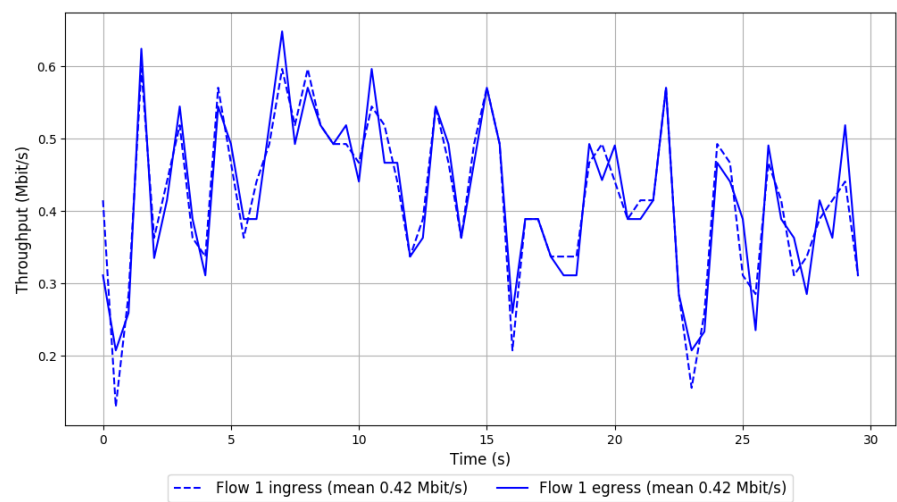
-- Flow 1:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 58.567 ms

Loss rate: 0.00%

Run 3: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: Tue, 25 Jul 2017 06:45:41 +0000

End at: Tue, 25 Jul 2017 06:46:11 +0000

Local clock offset: 2.077 ms

Remote clock offset: -17.188 ms

Below is generated by plot.py at Tue, 25 Jul 2017 08:21:14 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.79 Mbit/s

95th percentile per-packet one-way delay: 302.301 ms

Loss rate: 0.97%

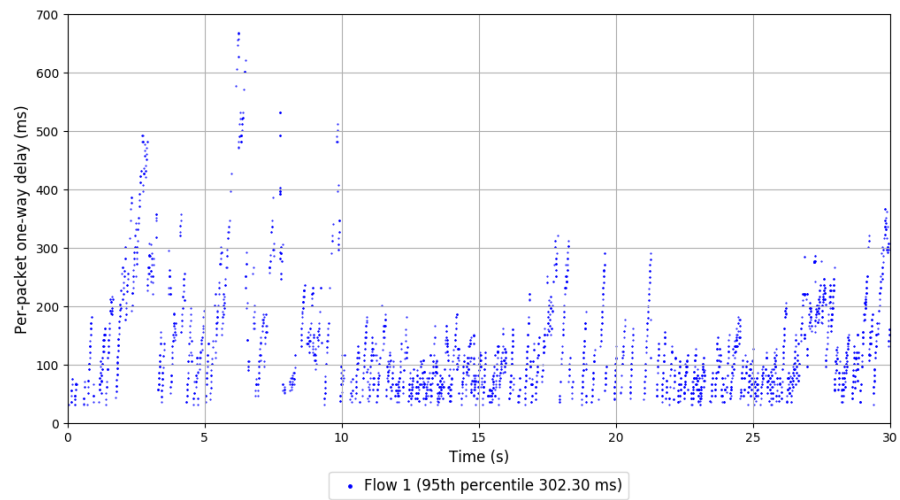
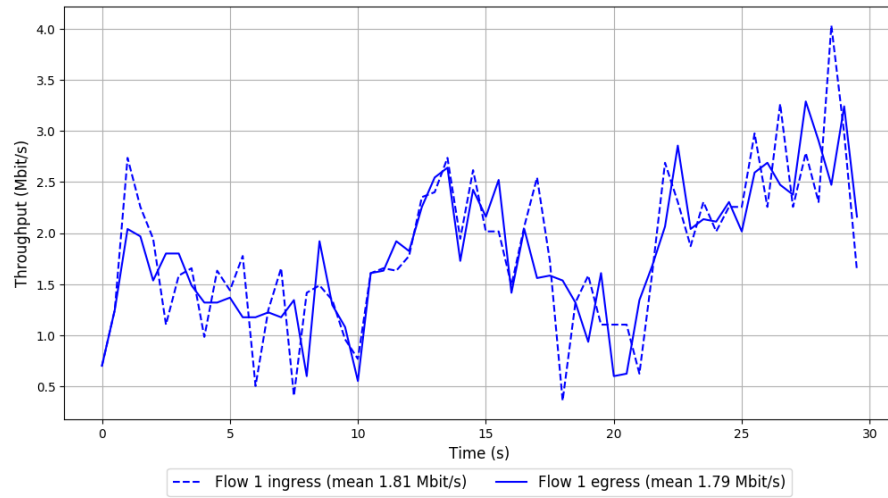
-- Flow 1:

Average throughput: 1.79 Mbit/s

95th percentile per-packet one-way delay: 302.301 ms

Loss rate: 0.97%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: Tue, 25 Jul 2017 07:02:04 +0000

End at: Tue, 25 Jul 2017 07:02:34 +0000

Local clock offset: 18.145 ms

Remote clock offset: -17.137 ms

Below is generated by plot.py at Tue, 25 Jul 2017 08:21:14 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.88 Mbit/s

95th percentile per-packet one-way delay: 116.549 ms

Loss rate: 1.36%

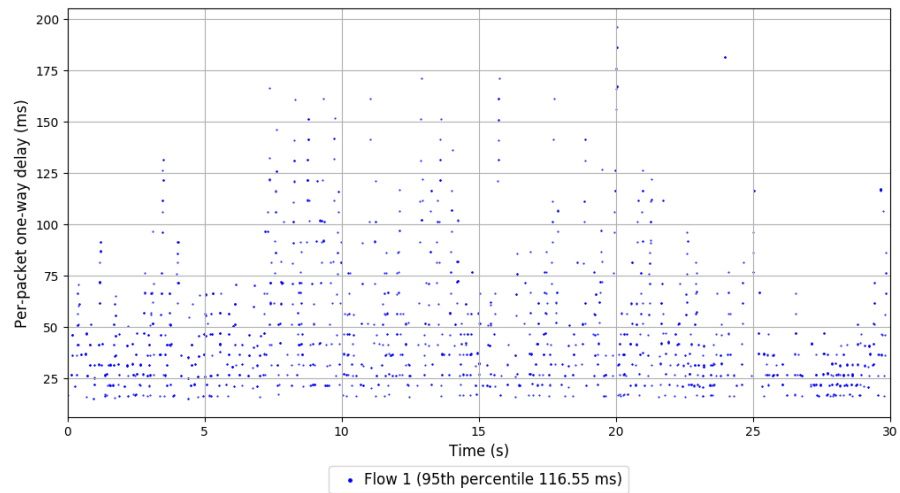
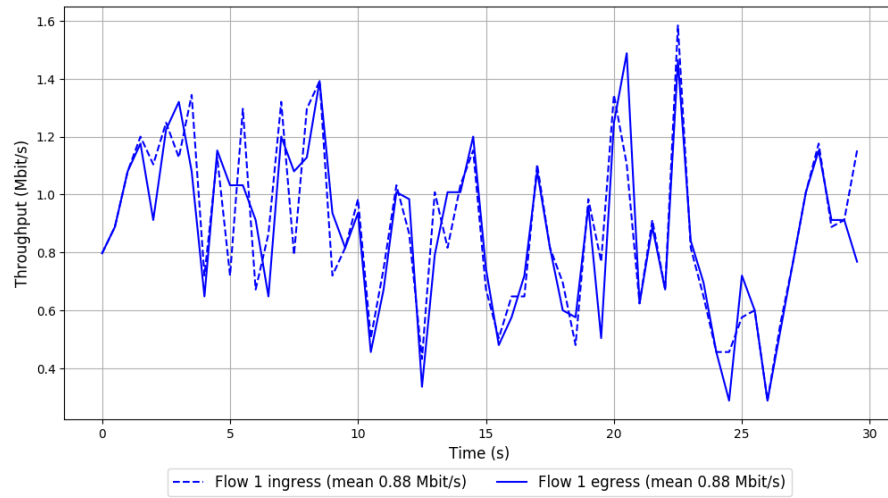
-- Flow 1:

Average throughput: 0.88 Mbit/s

95th percentile per-packet one-way delay: 116.549 ms

Loss rate: 1.36%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: Tue, 25 Jul 2017 07:18:22 +0000

End at: Tue, 25 Jul 2017 07:18:52 +0000

Local clock offset: 1.38 ms

Remote clock offset: -18.672 ms

Below is generated by plot.py at Tue, 25 Jul 2017 08:21:15 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 261.992 ms

Loss rate: 1.41%

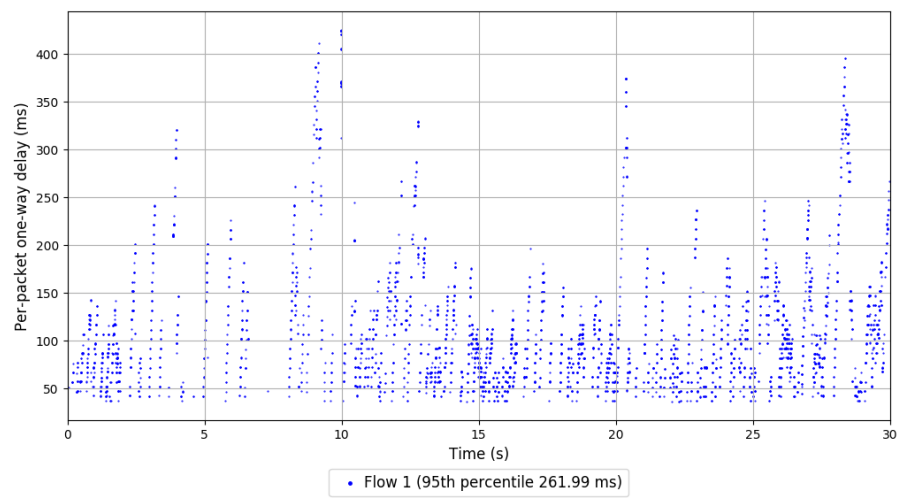
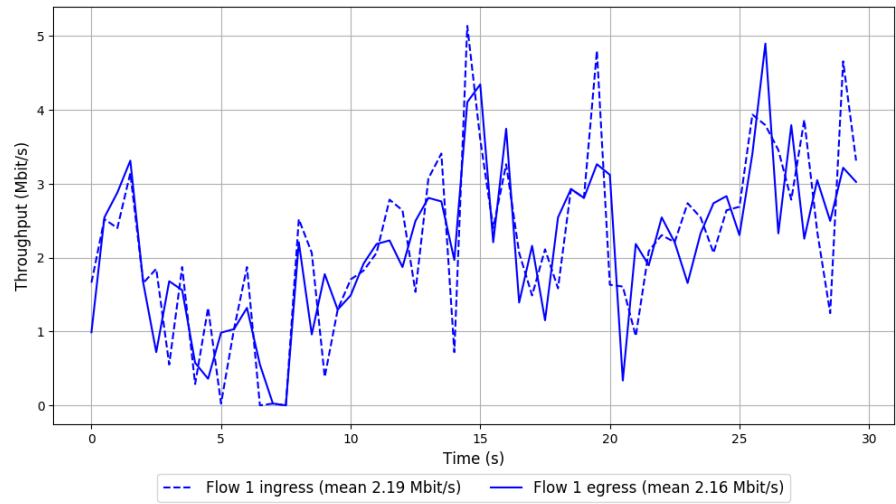
-- Flow 1:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 261.992 ms

Loss rate: 1.41%

Run 3: Report of TCP Cubic — Data Link



Run 1: Statistics of KohoCC

Start at: Tue, 25 Jul 2017 06:58:48 +0000

End at: Tue, 25 Jul 2017 06:59:18 +0000

Local clock offset: 0.659 ms

Remote clock offset: -15.387 ms

Below is generated by plot.py at Tue, 25 Jul 2017 08:21:15 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 94.699 ms

Loss rate: 0.00%

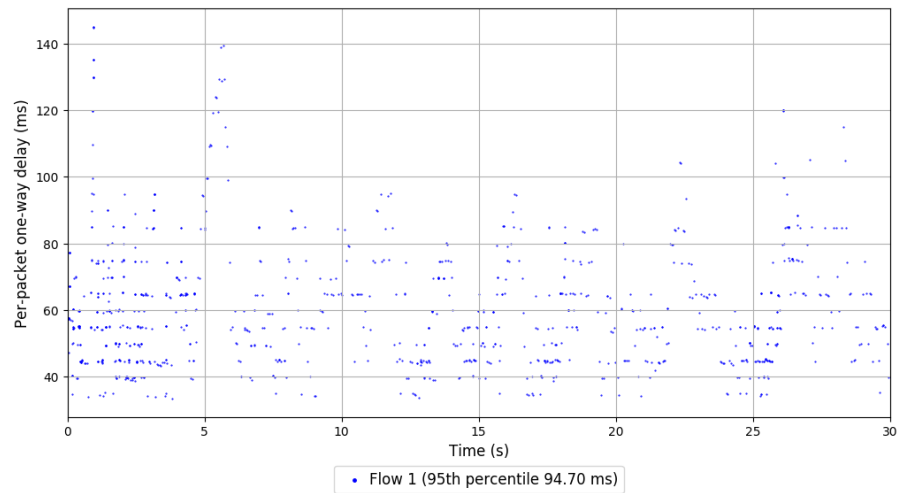
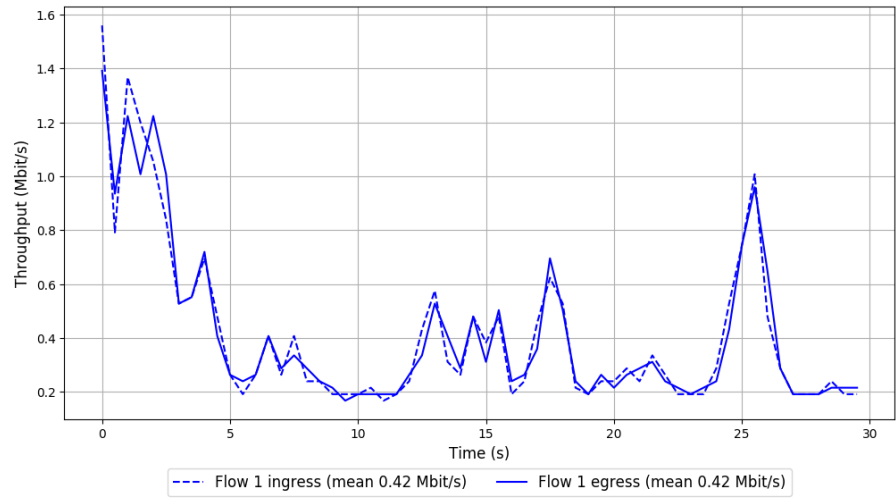
-- Flow 1:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 94.699 ms

Loss rate: 0.00%

Run 1: Report of KohoCC — Data Link



Run 2: Statistics of KohoCC

Start at: Tue, 25 Jul 2017 07:15:07 +0000

End at: Tue, 25 Jul 2017 07:15:37 +0000

Local clock offset: -0.574 ms

Remote clock offset: -17.552 ms

Below is generated by plot.py at Tue, 25 Jul 2017 08:21:16 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.76 Mbit/s

95th percentile per-packet one-way delay: 111.166 ms

Loss rate: 0.05%

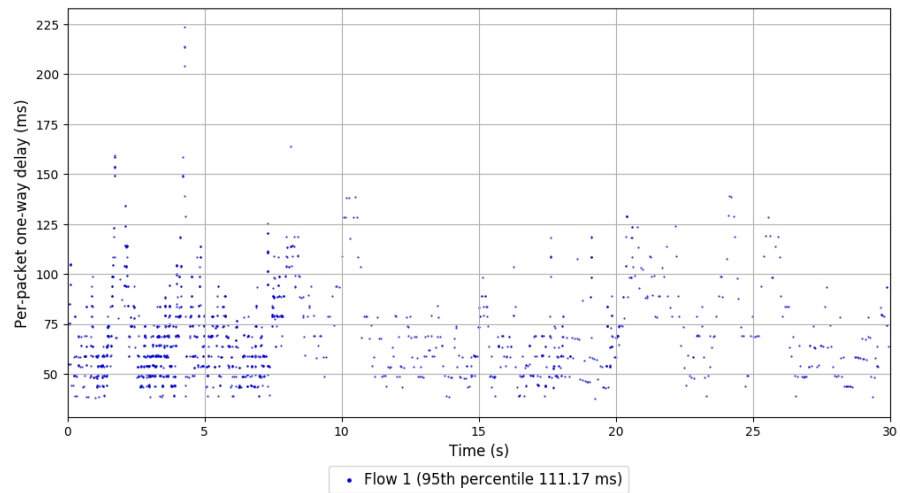
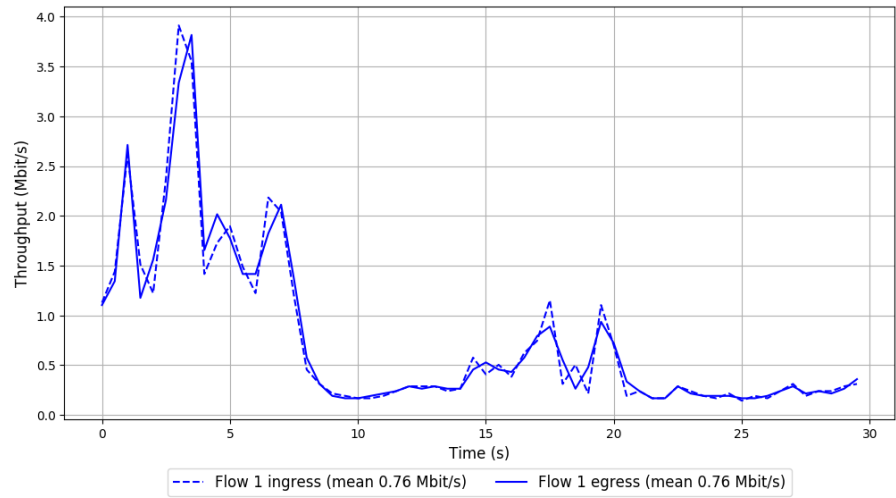
-- Flow 1:

Average throughput: 0.76 Mbit/s

95th percentile per-packet one-way delay: 111.166 ms

Loss rate: 0.05%

Run 2: Report of KohoCC — Data Link



Run 3: Statistics of KohoCC

Start at: Tue, 25 Jul 2017 07:31:25 +0000

End at: Tue, 25 Jul 2017 07:31:55 +0000

Local clock offset: 1.097 ms

Remote clock offset: -17.191 ms

Below is generated by plot.py at Tue, 25 Jul 2017 08:21:16 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.81 Mbit/s

95th percentile per-packet one-way delay: 97.431 ms

Loss rate: 0.00%

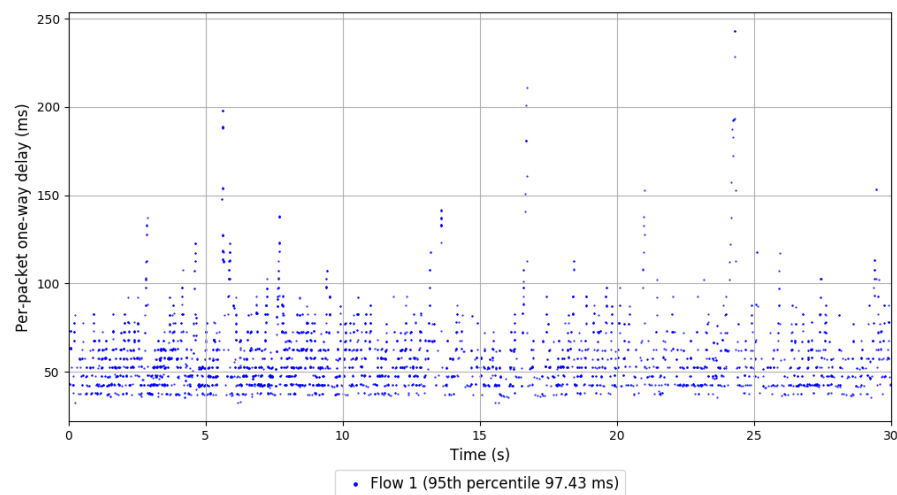
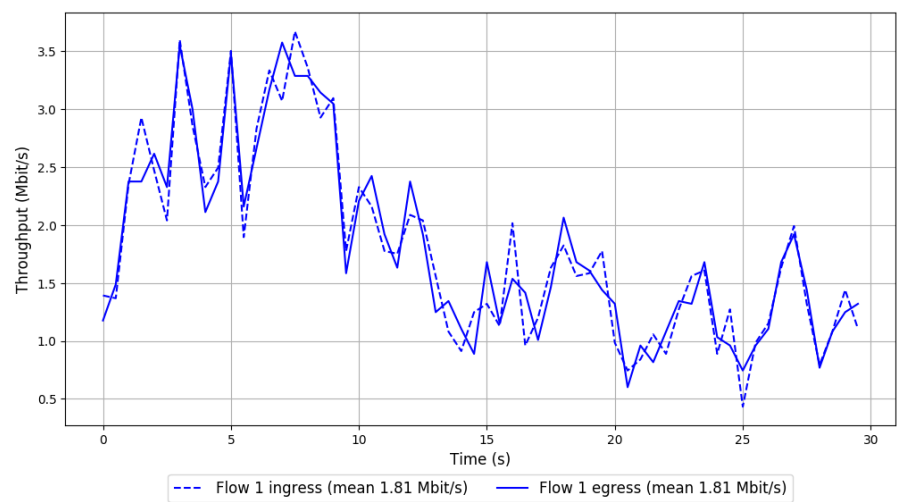
-- Flow 1:

Average throughput: 1.81 Mbit/s

95th percentile per-packet one-way delay: 97.431 ms

Loss rate: 0.00%

Run 3: Report of KohoCC — Data Link



Run 1: Statistics of LEDBAT

Start at: Tue, 25 Jul 2017 06:43:29 +0000

End at: Tue, 25 Jul 2017 06:43:59 +0000

Local clock offset: 1.807 ms

Remote clock offset: -17.947 ms

Below is generated by plot.py at Tue, 25 Jul 2017 08:21:17 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.97 Mbit/s

95th percentile per-packet one-way delay: 171.961 ms

Loss rate: 0.29%

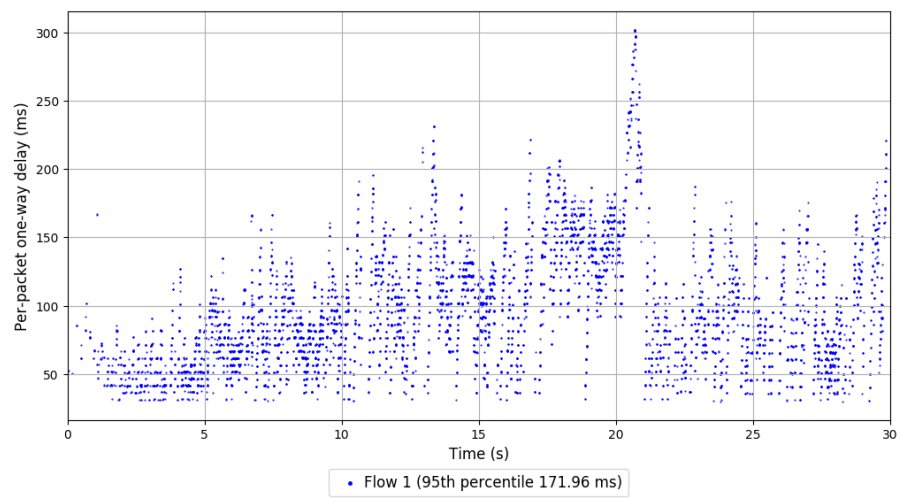
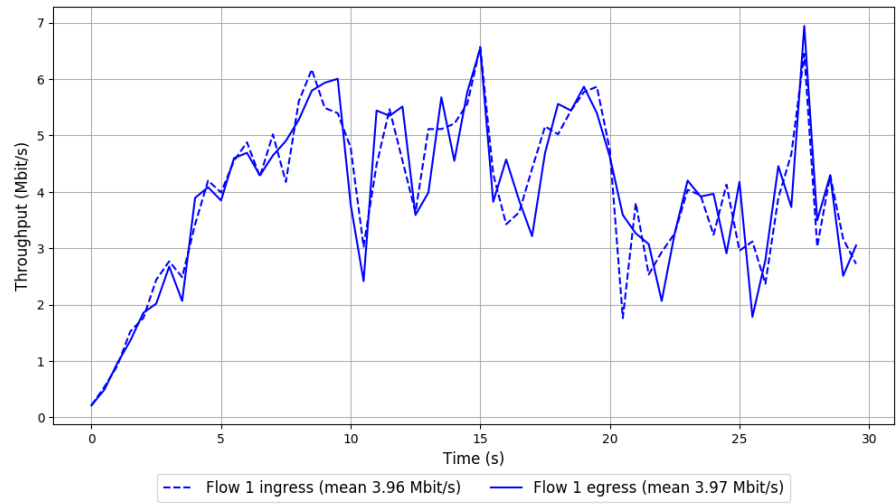
-- Flow 1:

Average throughput: 3.97 Mbit/s

95th percentile per-packet one-way delay: 171.961 ms

Loss rate: 0.29%

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: Tue, 25 Jul 2017 06:59:54 +0000

End at: Tue, 25 Jul 2017 07:00:24 +0000

Local clock offset: 2.363 ms

Remote clock offset: -18.651 ms

Below is generated by plot.py at Tue, 25 Jul 2017 08:21:18 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.28 Mbit/s

95th percentile per-packet one-way delay: 99.927 ms

Loss rate: 0.91%

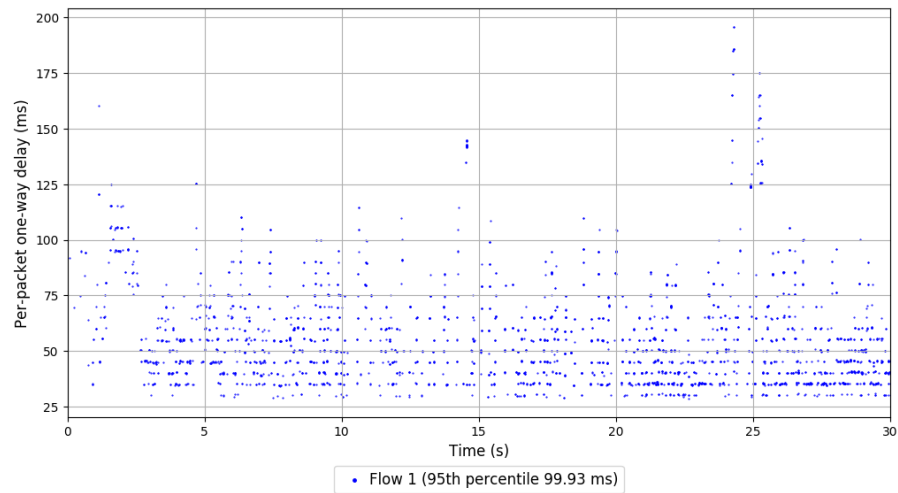
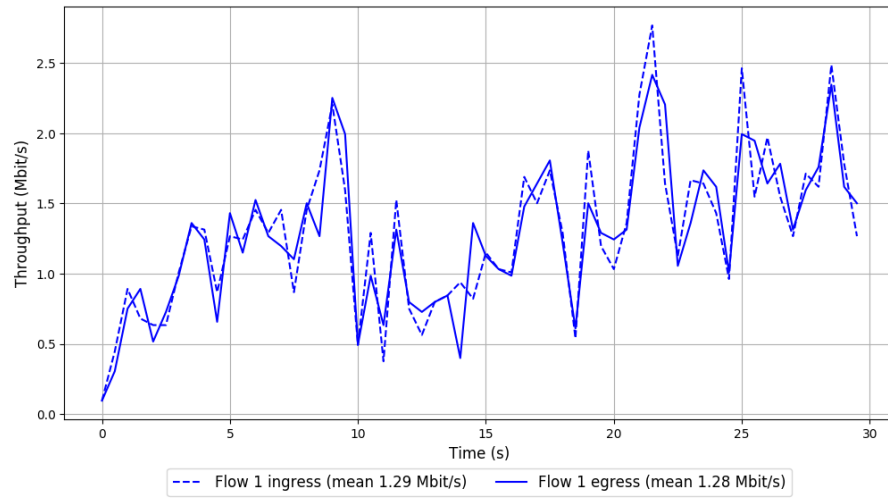
-- Flow 1:

Average throughput: 1.28 Mbit/s

95th percentile per-packet one-way delay: 99.927 ms

Loss rate: 0.91%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: Tue, 25 Jul 2017 07:16:12 +0000

End at: Tue, 25 Jul 2017 07:16:42 +0000

Local clock offset: -0.097 ms

Remote clock offset: -16.43 ms

Below is generated by plot.py at Tue, 25 Jul 2017 08:21:19 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.79 Mbit/s

95th percentile per-packet one-way delay: 173.737 ms

Loss rate: 0.38%

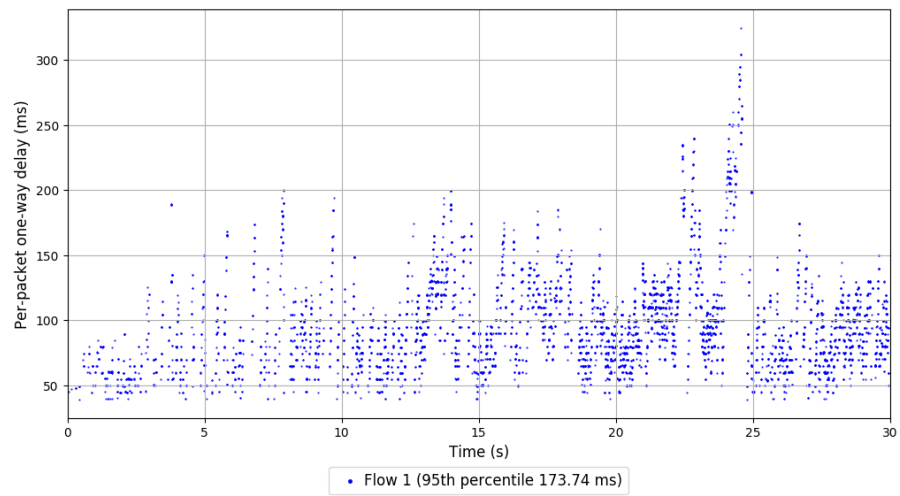
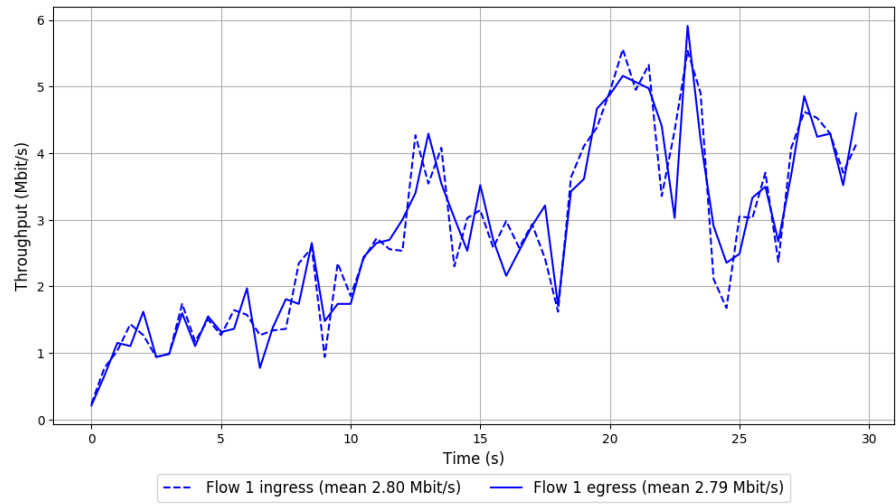
-- Flow 1:

Average throughput: 2.79 Mbit/s

95th percentile per-packet one-way delay: 173.737 ms

Loss rate: 0.38%

Run 3: Report of LEDBAT — Data Link



Run 1: Statistics of PCC

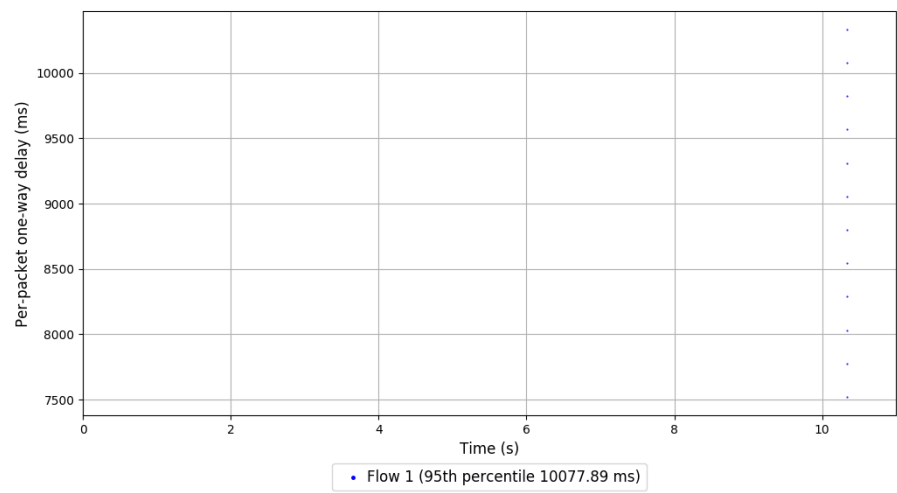
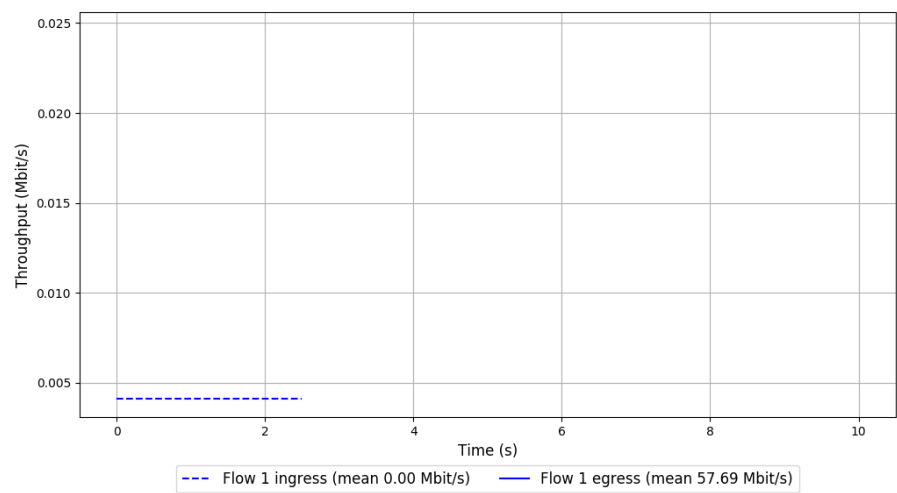
Start at: Tue, 25 Jul 2017 06:56:36 +0000

End at: Tue, 25 Jul 2017 06:57:06 +0000

Local clock offset: 1.644 ms

Remote clock offset: -16.763 ms

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

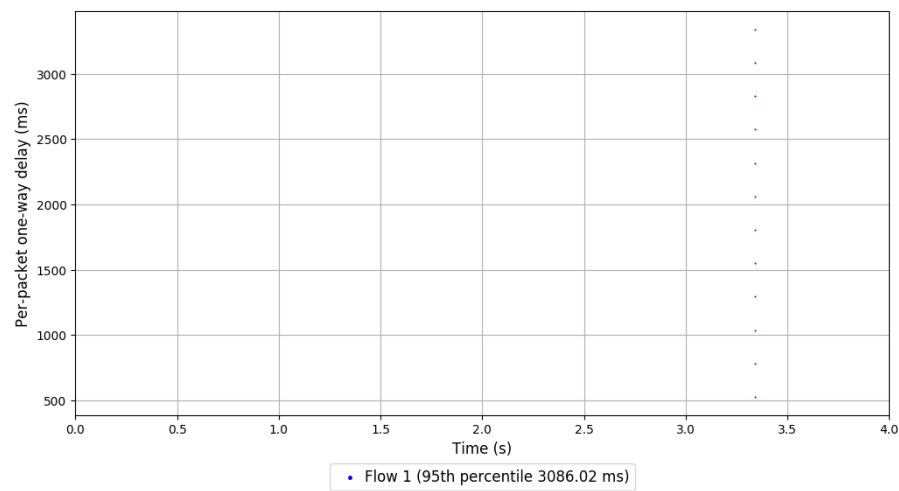
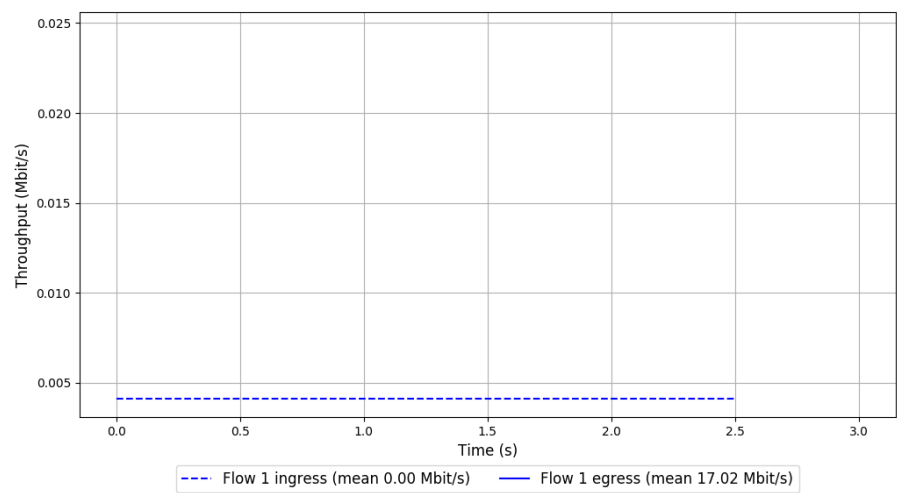
Start at: Tue, 25 Jul 2017 07:12:57 +0000

End at: Tue, 25 Jul 2017 07:13:27 +0000

Local clock offset: 1.867 ms

Remote clock offset: -17.68 ms

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: Tue, 25 Jul 2017 07:29:15 +0000

End at: Tue, 25 Jul 2017 07:29:45 +0000

Local clock offset: 1.645 ms

Remote clock offset: -17.824 ms

Below is generated by plot.py at Tue, 25 Jul 2017 08:21:20 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.71 Mbit/s

95th percentile per-packet one-way delay: 1089.687 ms

Loss rate: 41.97%

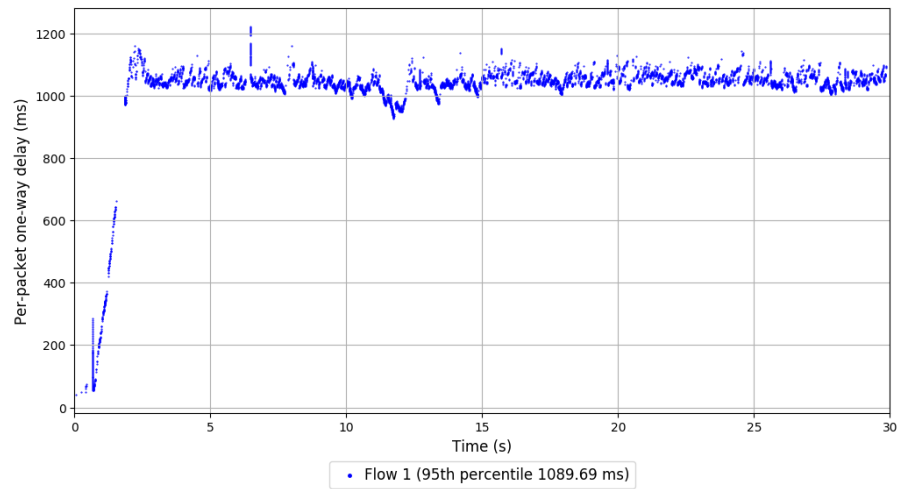
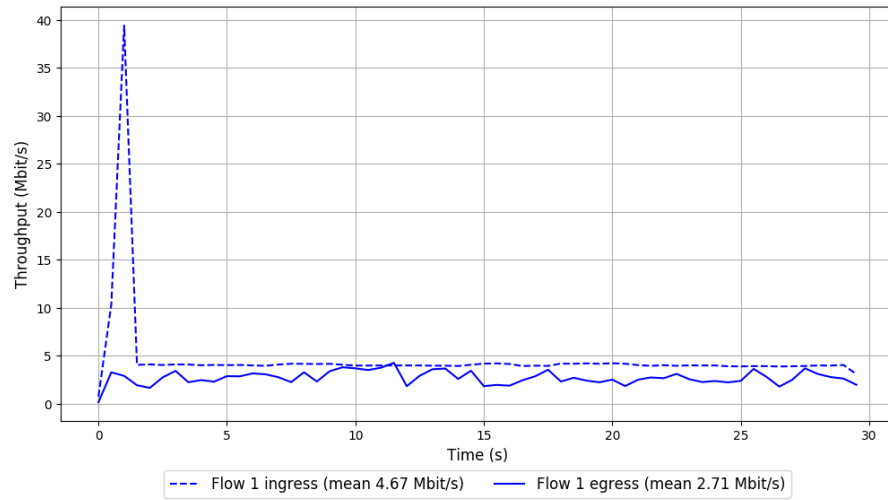
-- Flow 1:

Average throughput: 2.71 Mbit/s

95th percentile per-packet one-way delay: 1089.687 ms

Loss rate: 41.97%

Run 3: Report of PCC — Data Link



Run 1: Statistics of QUIC Cubic

Start at: Tue, 25 Jul 2017 06:46:46 +0000

End at: Tue, 25 Jul 2017 06:47:16 +0000

Local clock offset: 1.895 ms

Remote clock offset: -17.641 ms

Below is generated by plot.py at Tue, 25 Jul 2017 08:21:21 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.22 Mbit/s

95th percentile per-packet one-way delay: 202.223 ms

Loss rate: 0.41%

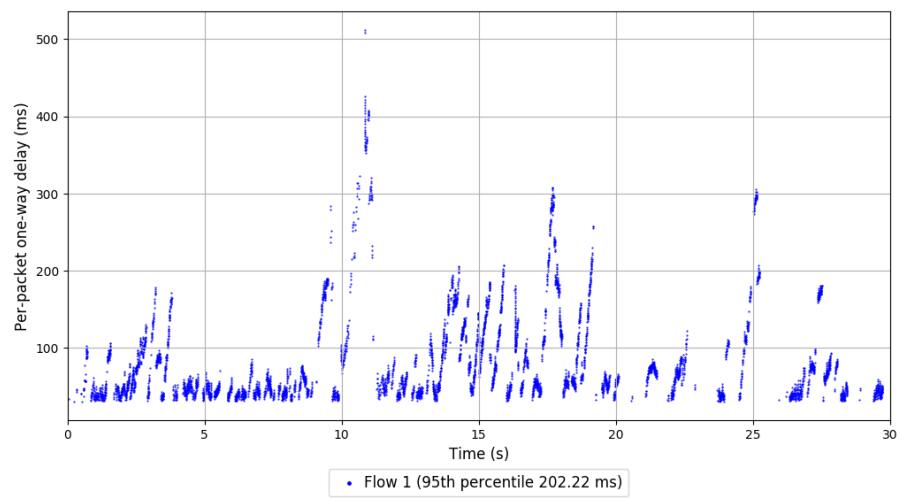
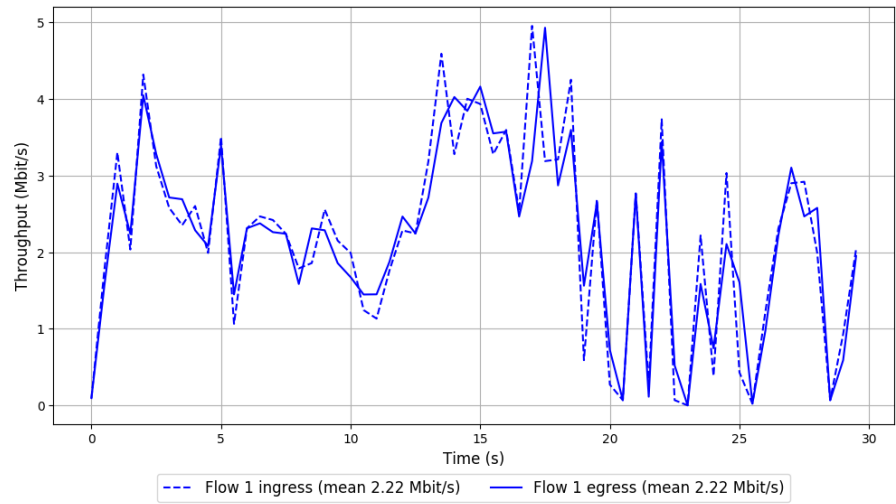
-- Flow 1:

Average throughput: 2.22 Mbit/s

95th percentile per-packet one-way delay: 202.223 ms

Loss rate: 0.41%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: Tue, 25 Jul 2017 07:03:09 +0000

End at: Tue, 25 Jul 2017 07:03:39 +0000

Local clock offset: 3.173 ms

Remote clock offset: -16.805 ms

Below is generated by plot.py at Tue, 25 Jul 2017 08:21:21 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.37 Mbit/s

95th percentile per-packet one-way delay: 221.094 ms

Loss rate: 1.42%

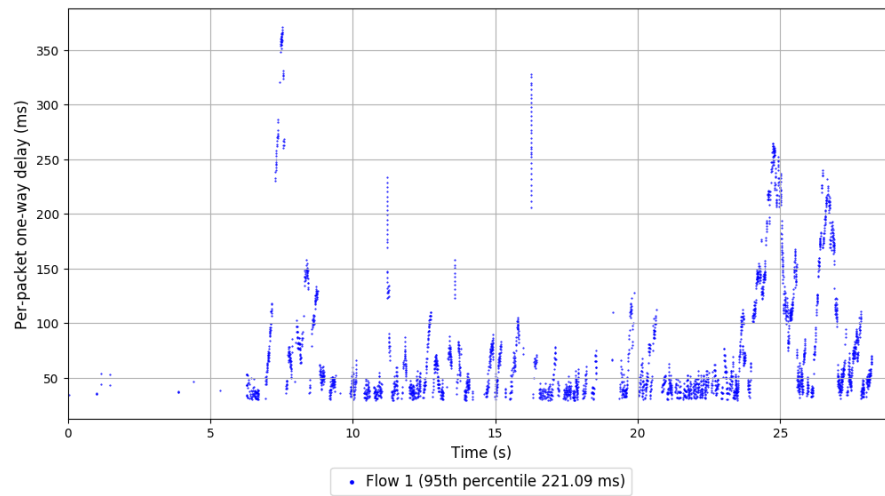
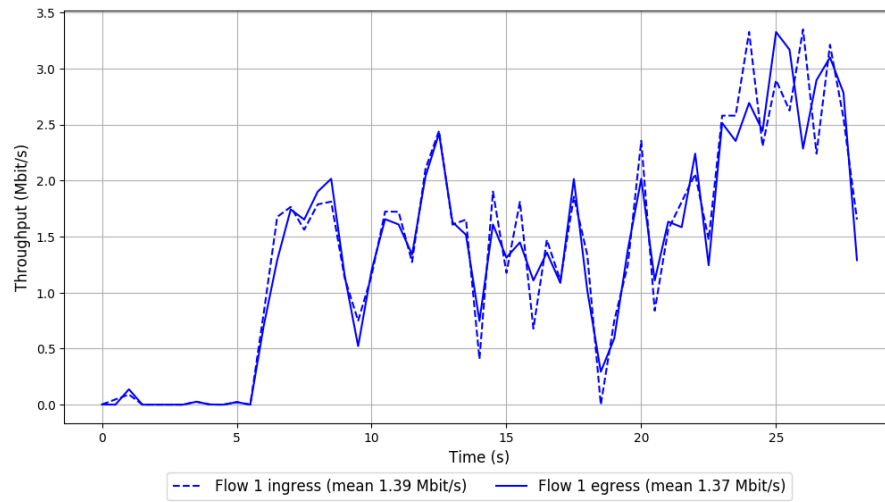
-- Flow 1:

Average throughput: 1.37 Mbit/s

95th percentile per-packet one-way delay: 221.094 ms

Loss rate: 1.42%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: Tue, 25 Jul 2017 07:19:27 +0000

End at: Tue, 25 Jul 2017 07:19:57 +0000

Local clock offset: 1.019 ms

Remote clock offset: -17.338 ms

Below is generated by plot.py at Tue, 25 Jul 2017 08:21:23 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.75 Mbit/s

95th percentile per-packet one-way delay: 281.287 ms

Loss rate: 0.33%

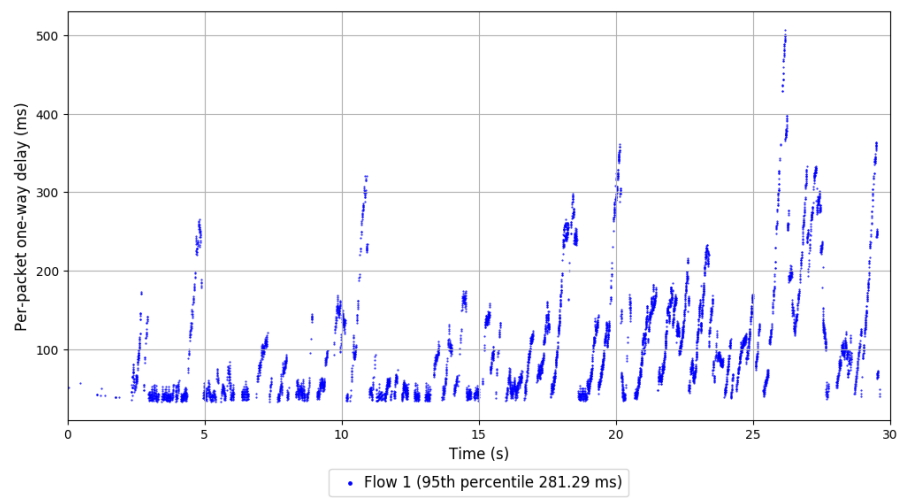
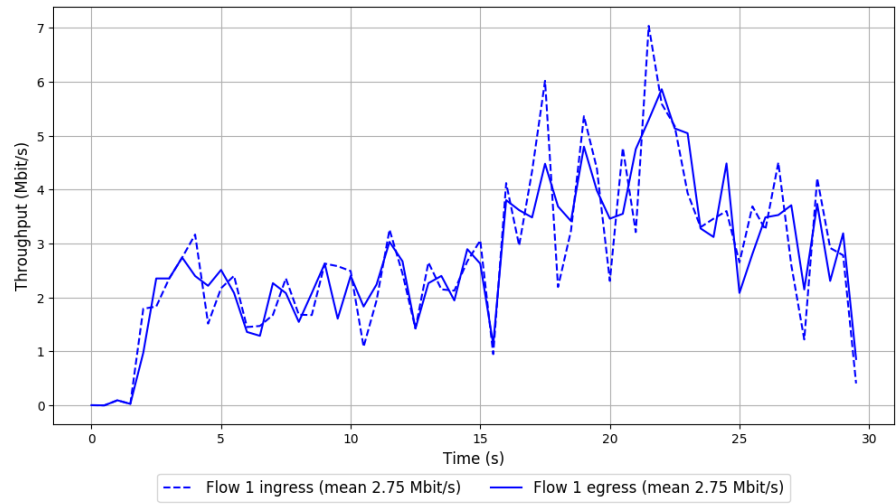
-- Flow 1:

Average throughput: 2.75 Mbit/s

95th percentile per-packet one-way delay: 281.287 ms

Loss rate: 0.33%

Run 3: Report of QUIC Cubic — Data Link



Run 1: Statistics of Saturator

Start at: Tue, 25 Jul 2017 06:52:14 +0000

End at: Tue, 25 Jul 2017 06:52:44 +0000

Local clock offset: 2.019 ms

Remote clock offset: -18.015 ms

Below is generated by plot.py at Tue, 25 Jul 2017 08:21:23 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 843.643 ms

Loss rate: 3.27%

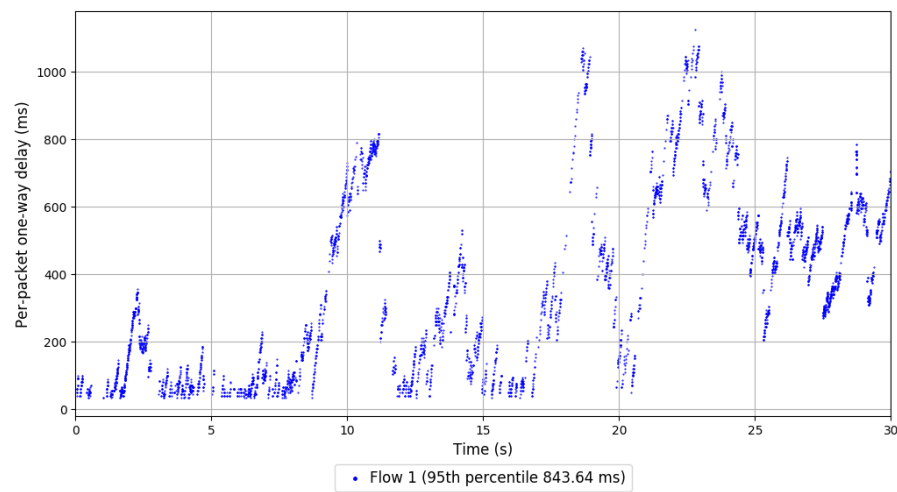
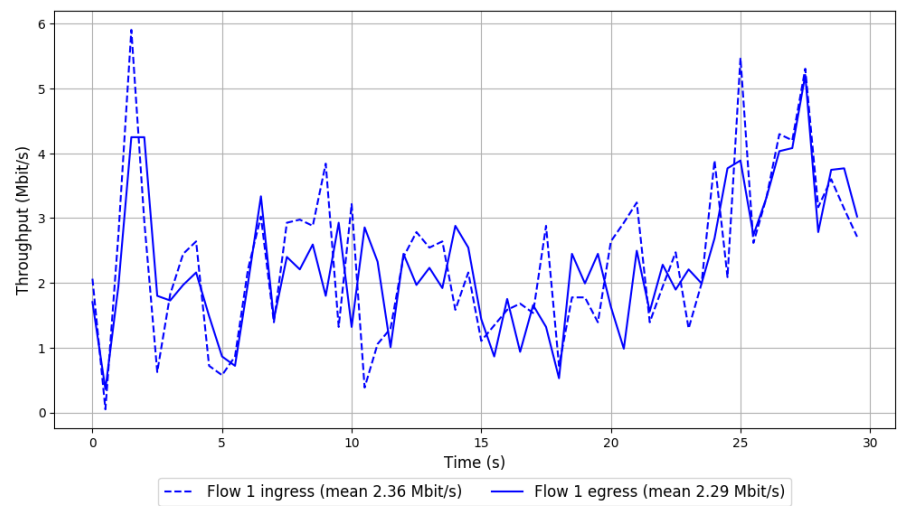
-- Flow 1:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 843.643 ms

Loss rate: 3.27%

Run 1: Report of Saturator — Data Link



Run 2: Statistics of Saturator

Start at: Tue, 25 Jul 2017 07:08:35 +0000

End at: Tue, 25 Jul 2017 07:09:05 +0000

Local clock offset: 0.75 ms

Remote clock offset: -17.792 ms

Below is generated by plot.py at Tue, 25 Jul 2017 08:21:24 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.84 Mbit/s

95th percentile per-packet one-way delay: 654.955 ms

Loss rate: 0.63%

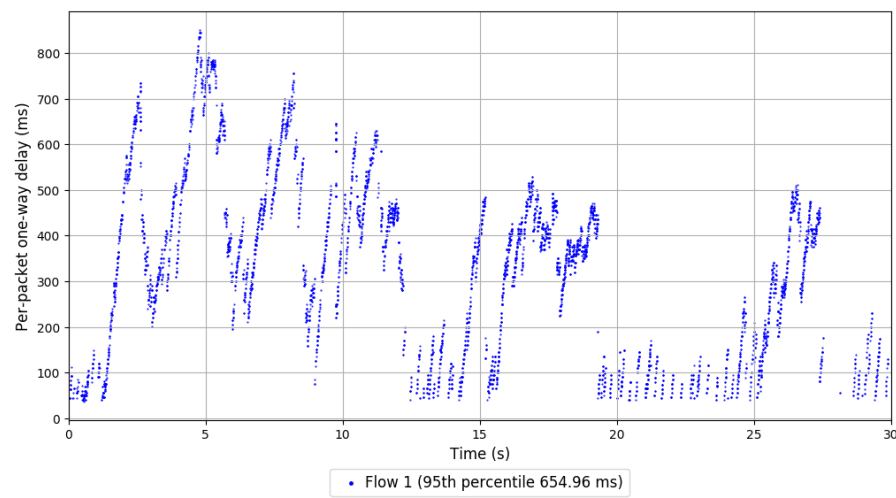
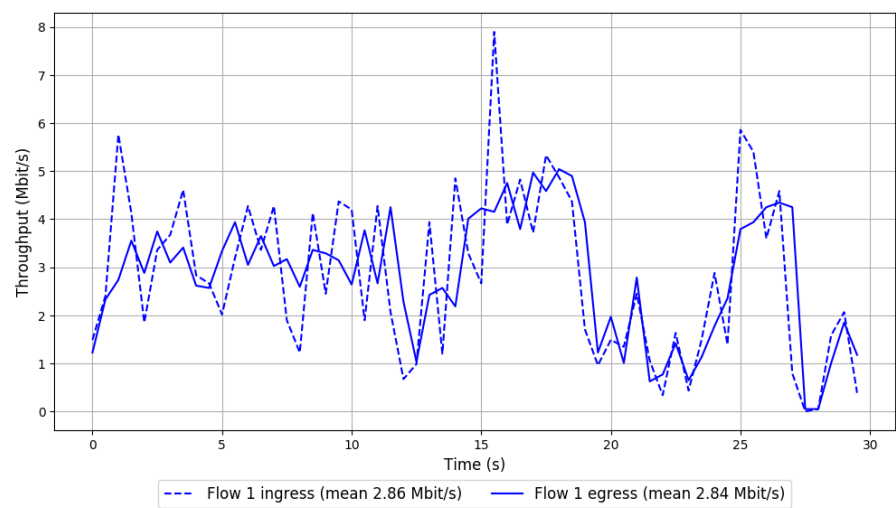
-- Flow 1:

Average throughput: 2.84 Mbit/s

95th percentile per-packet one-way delay: 654.955 ms

Loss rate: 0.63%

Run 2: Report of Saturator — Data Link



Run 3: Statistics of Saturator

Start at: Tue, 25 Jul 2017 07:24:54 +0000

End at: Tue, 25 Jul 2017 07:25:24 +0000

Local clock offset: 1.341 ms

Remote clock offset: -18.303 ms

Below is generated by plot.py at Tue, 25 Jul 2017 08:21:24 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.89 Mbit/s

95th percentile per-packet one-way delay: 774.270 ms

Loss rate: 0.92%

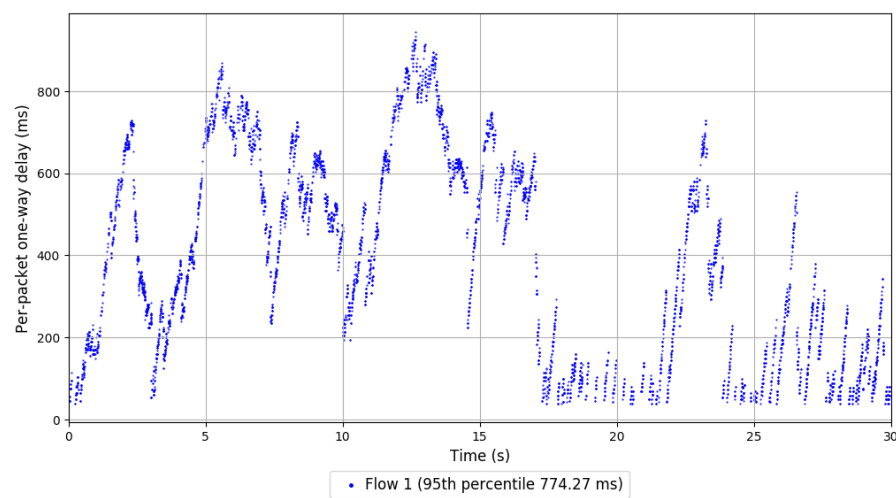
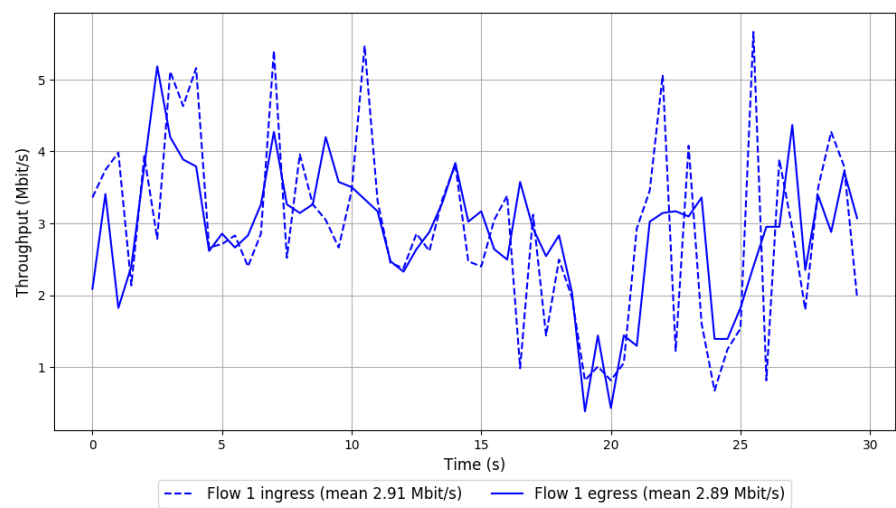
-- Flow 1:

Average throughput: 2.89 Mbit/s

95th percentile per-packet one-way delay: 774.270 ms

Loss rate: 0.92%

Run 3: Report of Saturator — Data Link



Run 1: Statistics of SCReAM

Start at: Tue, 25 Jul 2017 06:48:57 +0000

End at: Tue, 25 Jul 2017 06:49:27 +0000

Local clock offset: 1.853 ms

Remote clock offset: -16.063 ms

Below is generated by plot.py at Tue, 25 Jul 2017 08:21:25 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.12 Mbit/s

95th percentile per-packet one-way delay: 92.998 ms

Loss rate: 0.61%

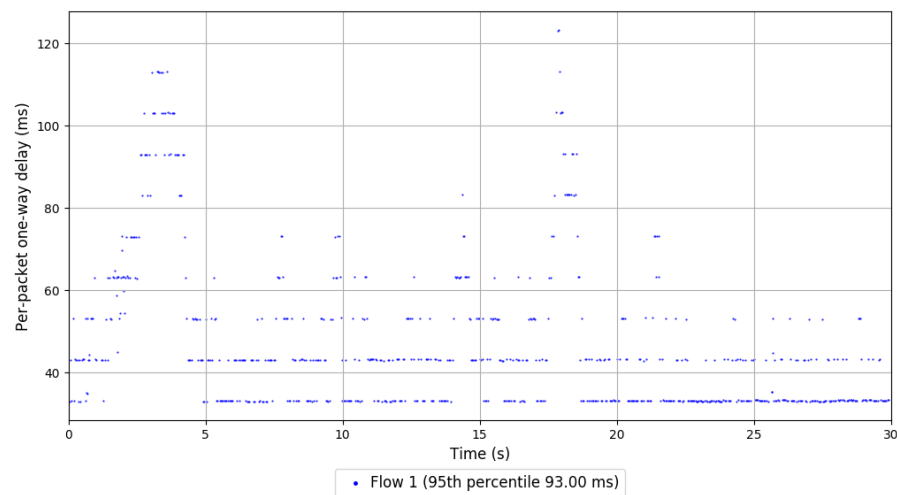
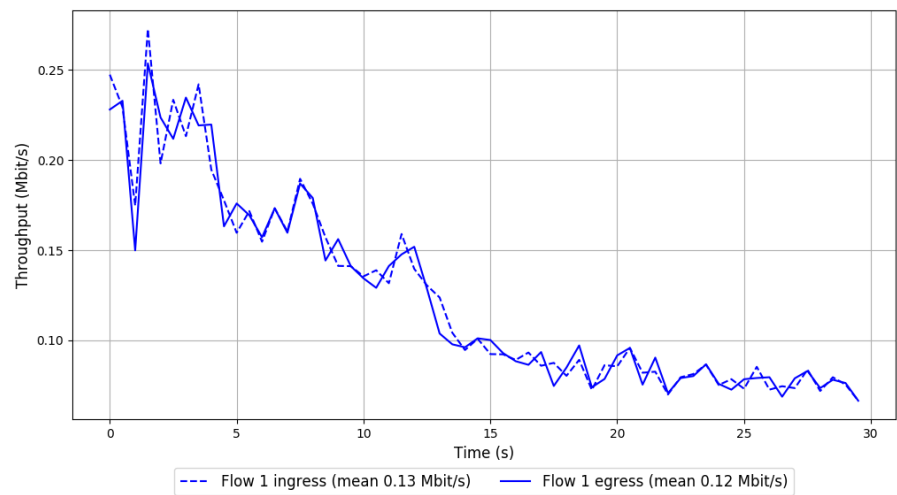
-- Flow 1:

Average throughput: 0.12 Mbit/s

95th percentile per-packet one-way delay: 92.998 ms

Loss rate: 0.61%

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

Start at: Tue, 25 Jul 2017 07:05:20 +0000

End at: Tue, 25 Jul 2017 07:05:50 +0000

Local clock offset: 0.138 ms

Remote clock offset: -17.616 ms

Below is generated by plot.py at Tue, 25 Jul 2017 08:21:25 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.16 Mbit/s

95th percentile per-packet one-way delay: 64.214 ms

Loss rate: 0.11%

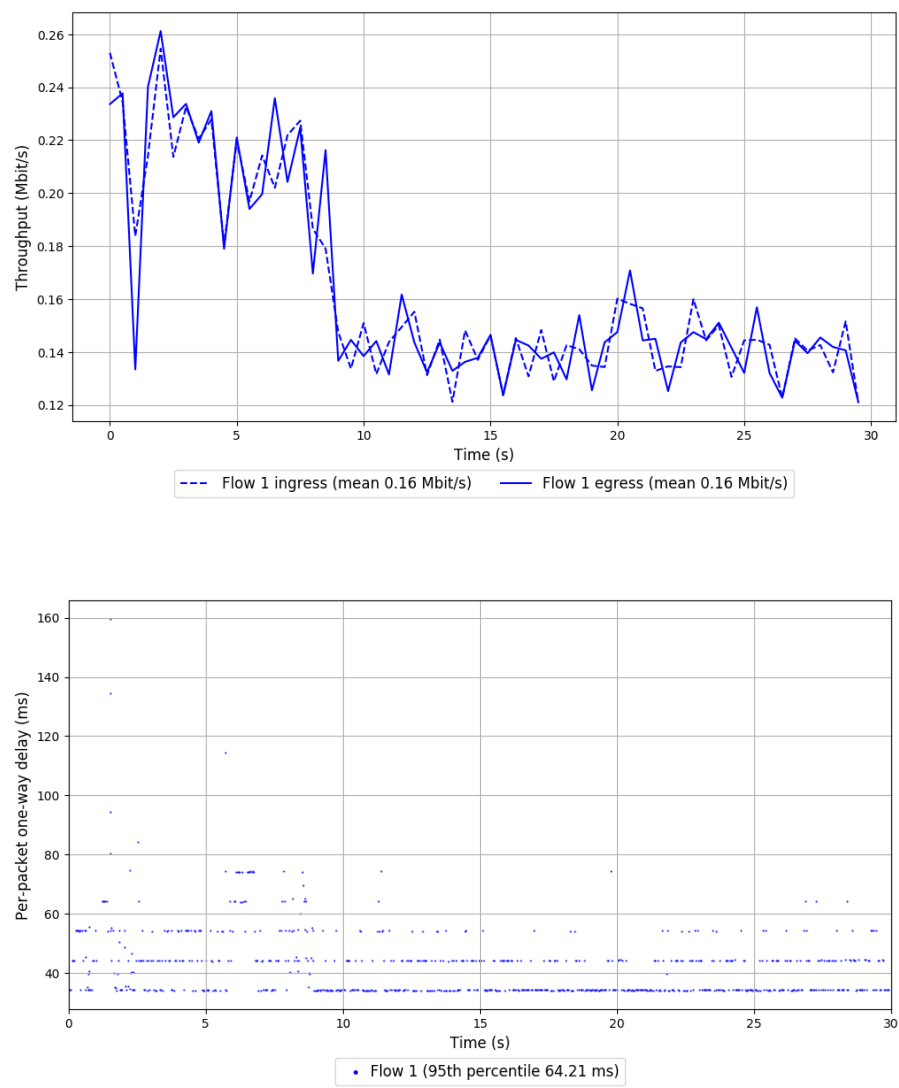
-- Flow 1:

Average throughput: 0.16 Mbit/s

95th percentile per-packet one-way delay: 64.214 ms

Loss rate: 0.11%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: Tue, 25 Jul 2017 07:21:38 +0000

End at: Tue, 25 Jul 2017 07:22:08 +0000

Local clock offset: -1.396 ms

Remote clock offset: -18.032 ms

Below is generated by plot.py at Tue, 25 Jul 2017 08:21:26 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 64.931 ms

Loss rate: 0.12%

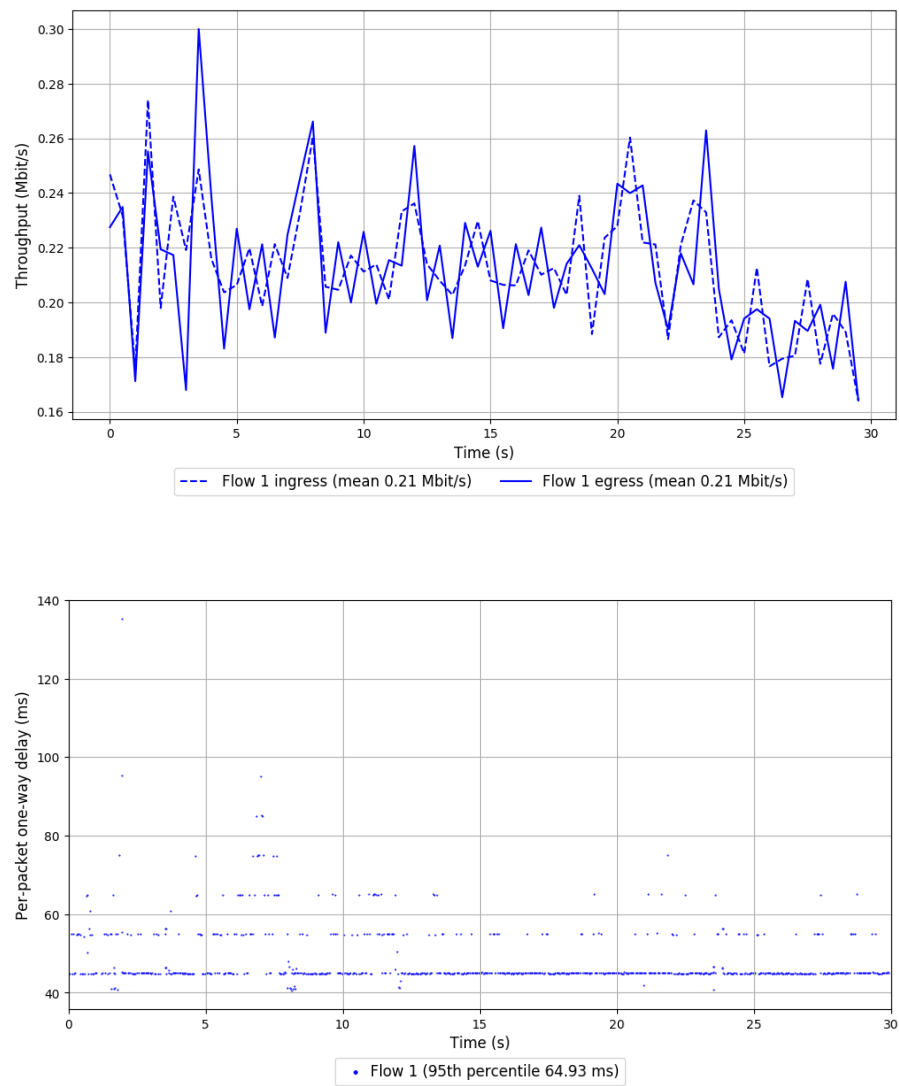
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 64.931 ms

Loss rate: 0.12%

Run 3: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: Tue, 25 Jul 2017 06:47:52 +0000

End at: Tue, 25 Jul 2017 06:48:22 +0000

Local clock offset: 1.805 ms

Remote clock offset: -17.29 ms

Below is generated by plot.py at Tue, 25 Jul 2017 08:21:26 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 62.455 ms

Loss rate: 0.92%

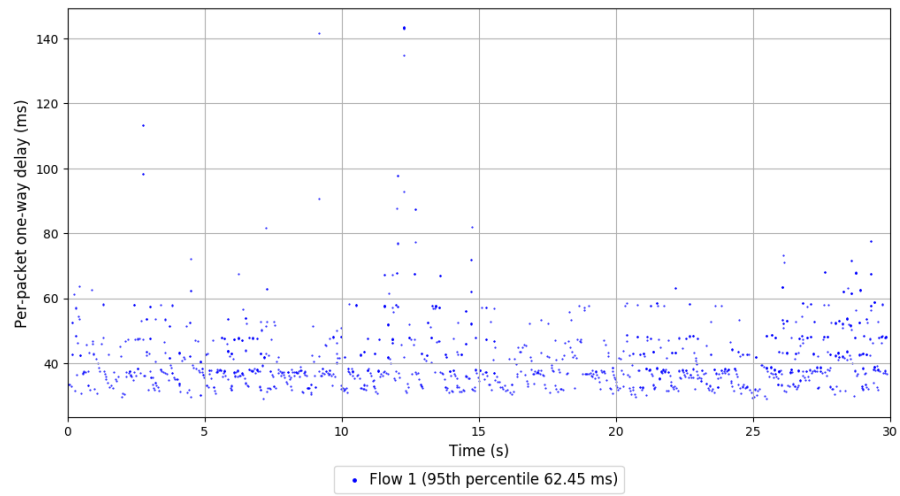
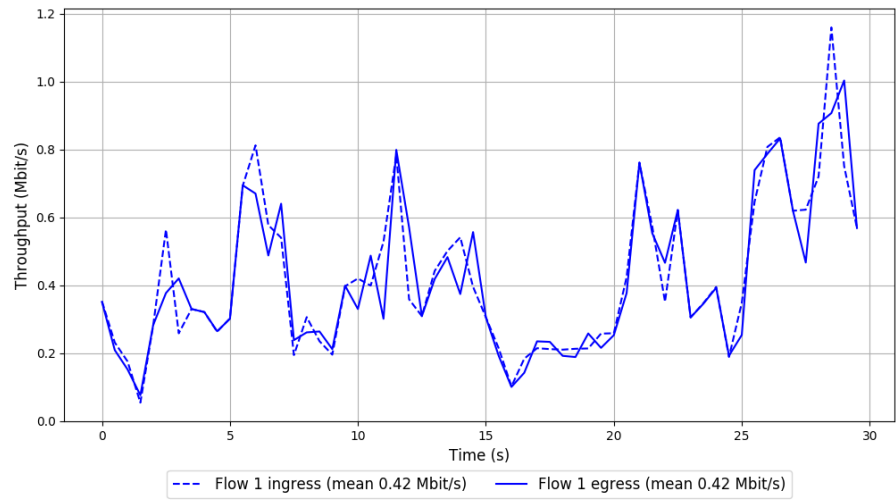
-- Flow 1:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 62.455 ms

Loss rate: 0.92%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: Tue, 25 Jul 2017 07:04:15 +0000

End at: Tue, 25 Jul 2017 07:04:45 +0000

Local clock offset: 0.494 ms

Remote clock offset: -16.367 ms

Below is generated by plot.py at Tue, 25 Jul 2017 08:21:27 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 70.579 ms

Loss rate: 0.01%

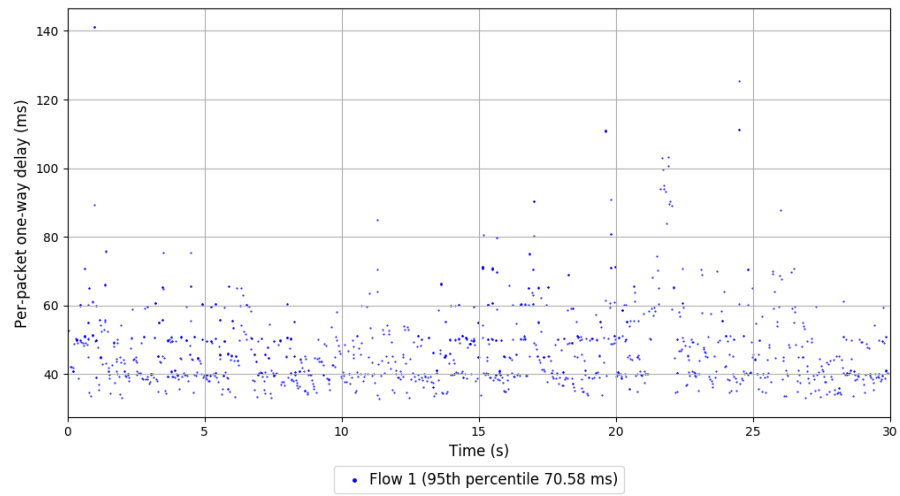
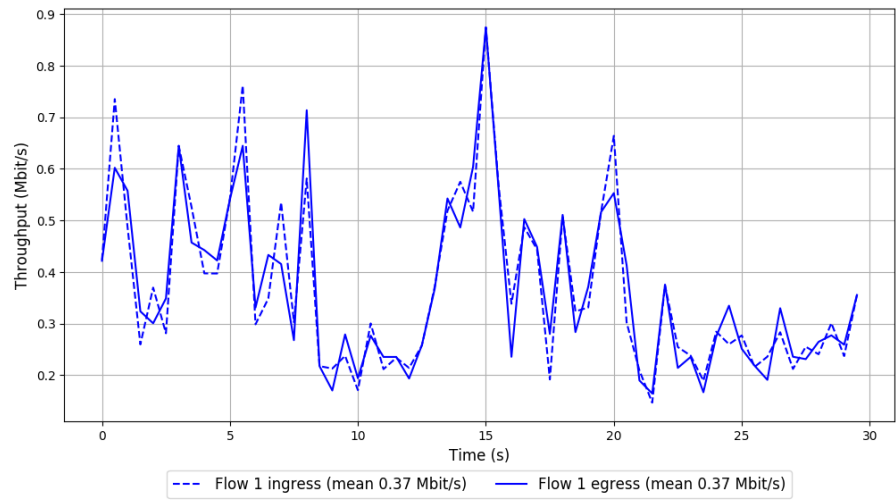
-- Flow 1:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 70.579 ms

Loss rate: 0.01%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: Tue, 25 Jul 2017 07:20:33 +0000

End at: Tue, 25 Jul 2017 07:21:03 +0000

Local clock offset: 0.633 ms

Remote clock offset: -25.837 ms

Below is generated by plot.py at Tue, 25 Jul 2017 08:21:28 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 55.862 ms

Loss rate: 0.00%

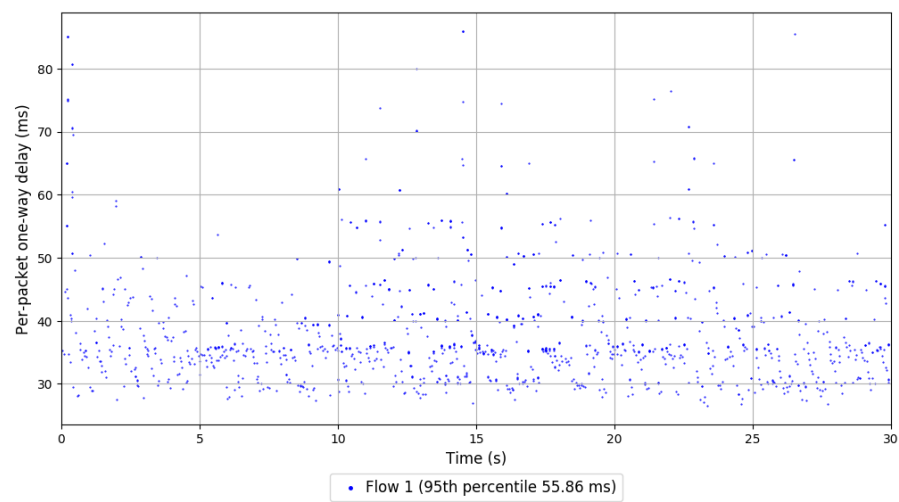
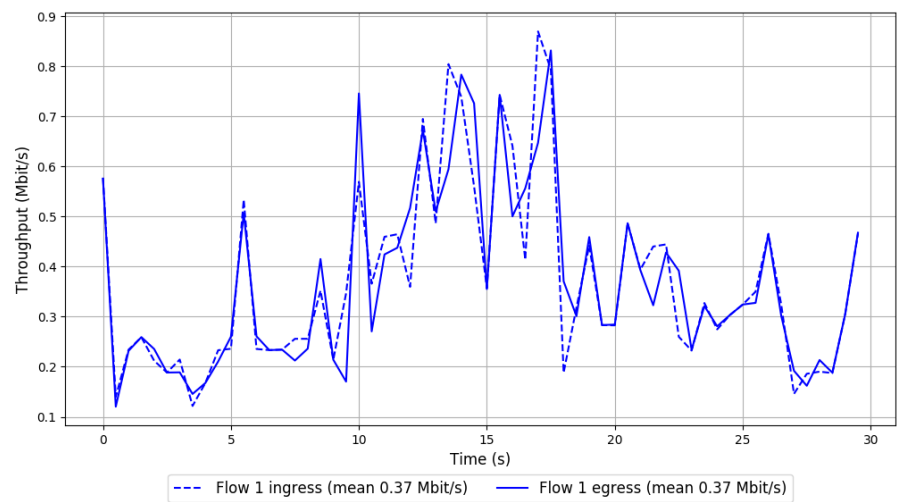
-- Flow 1:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 55.862 ms

Loss rate: 0.00%

Run 3: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

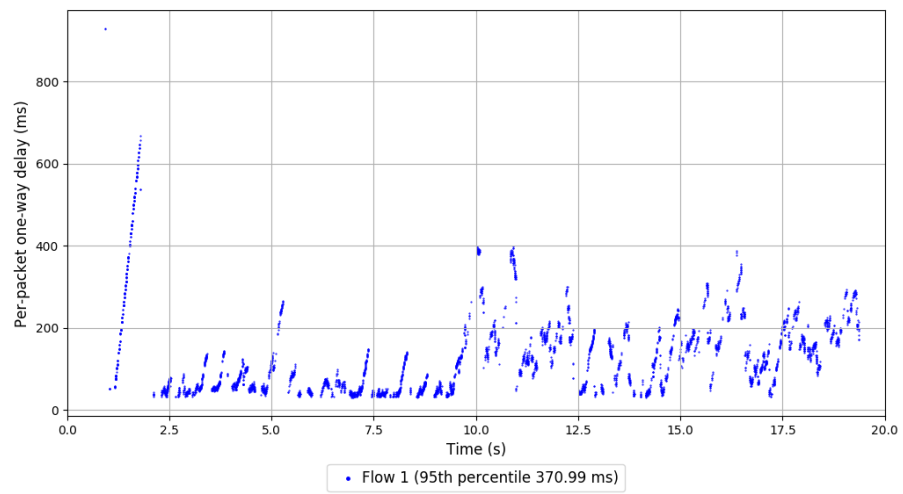
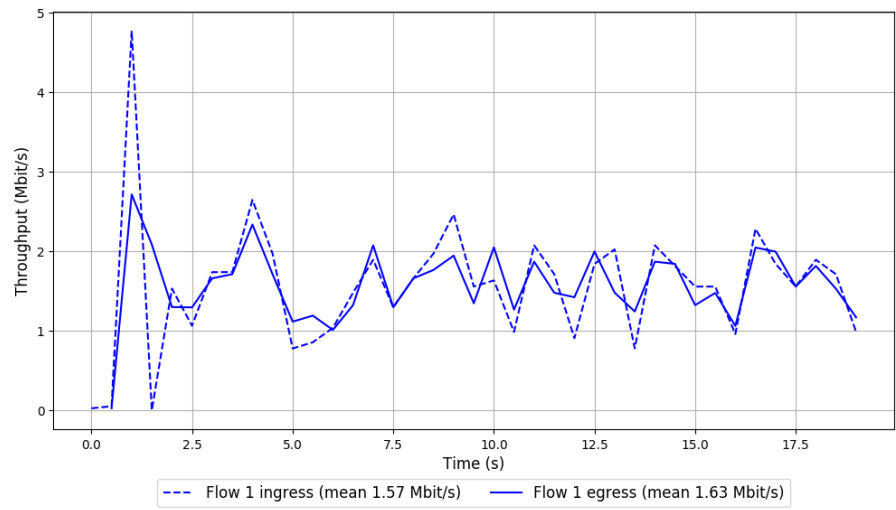
Start at: Tue, 25 Jul 2017 06:44:35 +0000

End at: Tue, 25 Jul 2017 06:45:05 +0000

Local clock offset: 1.224 ms

Remote clock offset: -17.769 ms

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



Run 2: Statistics of TaoVA-100x

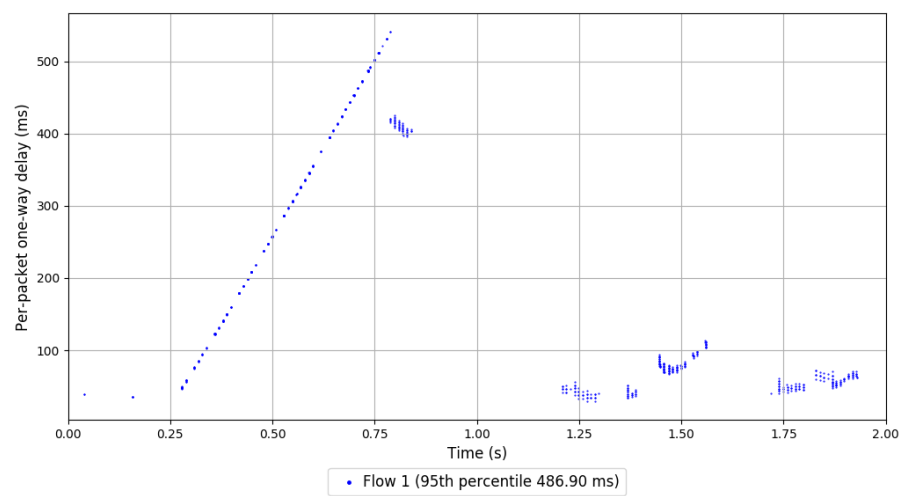
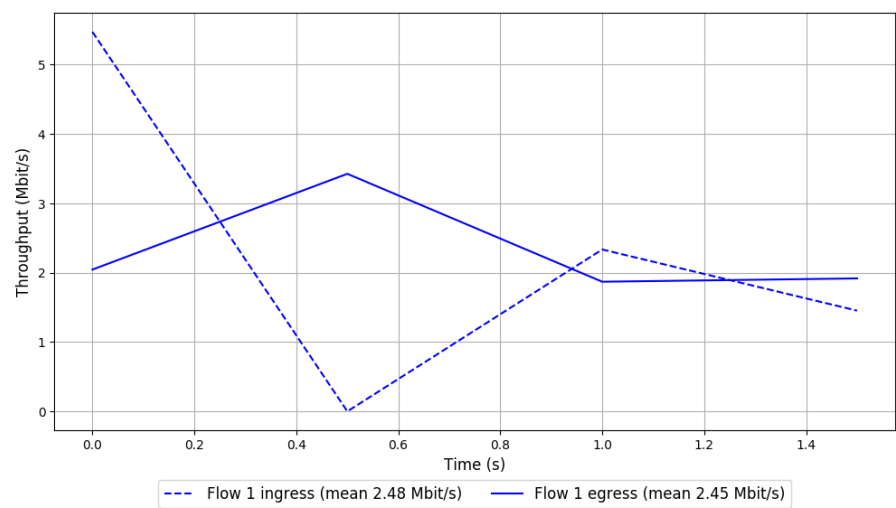
Start at: Tue, 25 Jul 2017 07:00:59 +0000

End at: Tue, 25 Jul 2017 07:01:29 +0000

Local clock offset: 3.314 ms

Remote clock offset: -17.722 ms

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



Run 3: Statistics of TaoVA-100x

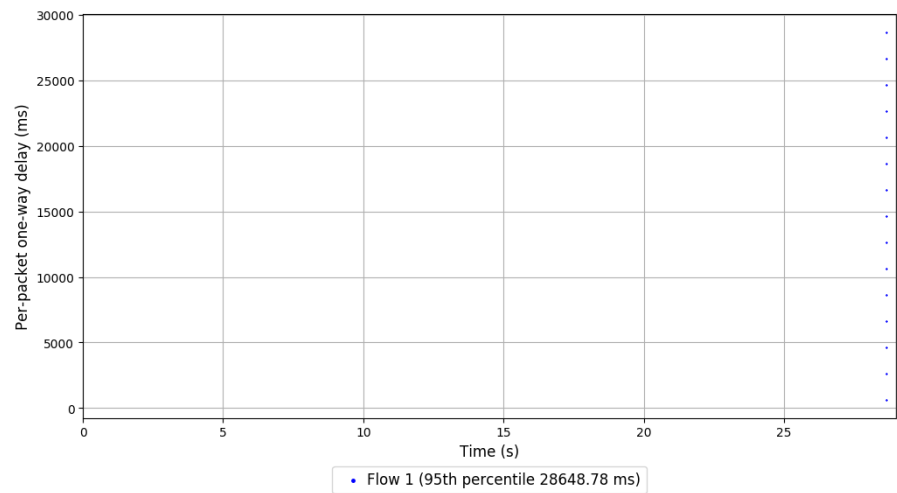
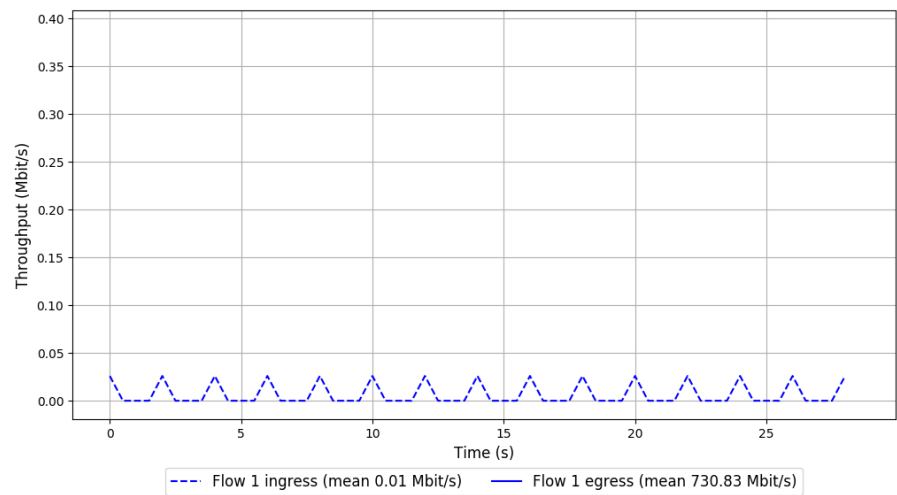
Start at: Tue, 25 Jul 2017 07:17:17 +0000

End at: Tue, 25 Jul 2017 07:17:47 +0000

Local clock offset: 0.886 ms

Remote clock offset: -18.056 ms

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



Run 1: Statistics of TCP Vegas

Start at: Tue, 25 Jul 2017 06:57:42 +0000

End at: Tue, 25 Jul 2017 06:58:12 +0000

Local clock offset: 0.59 ms

Remote clock offset: -19.535 ms

Below is generated by plot.py at Tue, 25 Jul 2017 08:21:30 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.40 Mbit/s

95th percentile per-packet one-way delay: 105.391 ms

Loss rate: 0.00%

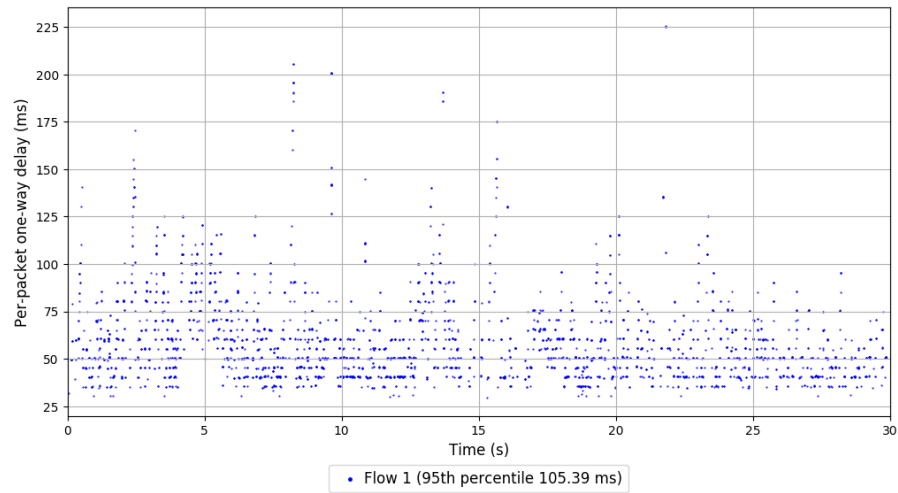
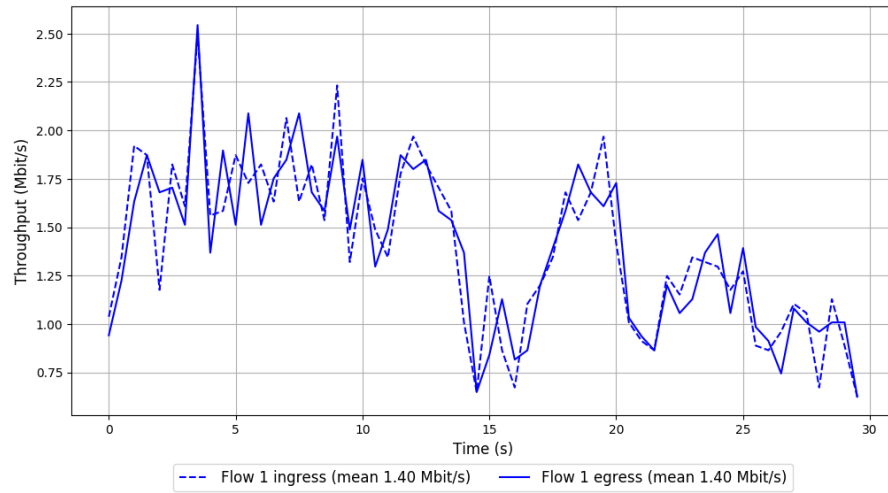
-- Flow 1:

Average throughput: 1.40 Mbit/s

95th percentile per-packet one-way delay: 105.391 ms

Loss rate: 0.00%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: Tue, 25 Jul 2017 07:14:02 +0000

End at: Tue, 25 Jul 2017 07:14:32 +0000

Local clock offset: 0.75 ms

Remote clock offset: -16.977 ms

Below is generated by plot.py at Tue, 25 Jul 2017 08:21:30 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.98 Mbit/s

95th percentile per-packet one-way delay: 223.045 ms

Loss rate: 0.16%

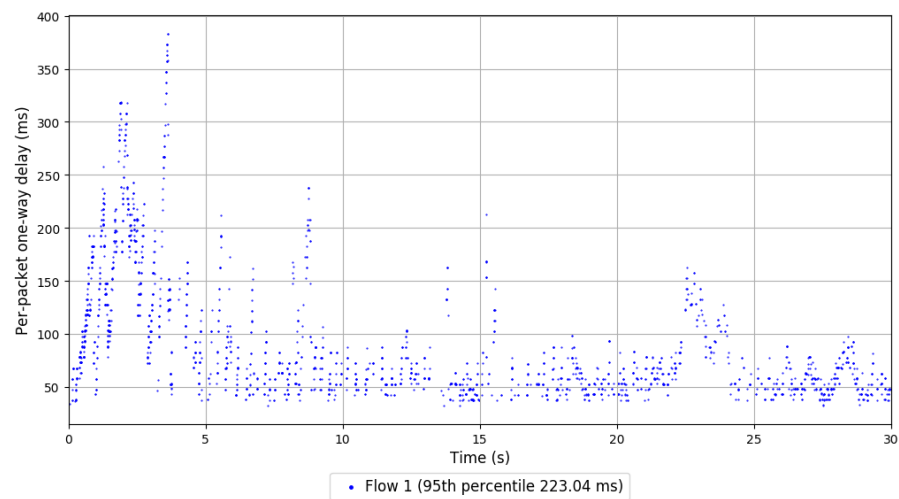
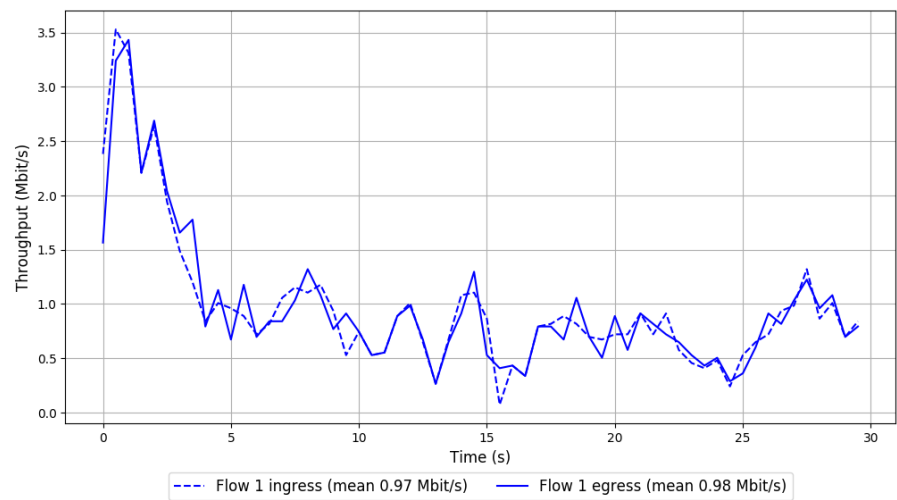
-- Flow 1:

Average throughput: 0.98 Mbit/s

95th percentile per-packet one-way delay: 223.045 ms

Loss rate: 0.16%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: Tue, 25 Jul 2017 07:30:20 +0000

End at: Tue, 25 Jul 2017 07:30:50 +0000

Local clock offset: 0.608 ms

Remote clock offset: -15.805 ms

Below is generated by plot.py at Tue, 25 Jul 2017 08:21:31 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.75 Mbit/s

95th percentile per-packet one-way delay: 84.096 ms

Loss rate: 1.27%

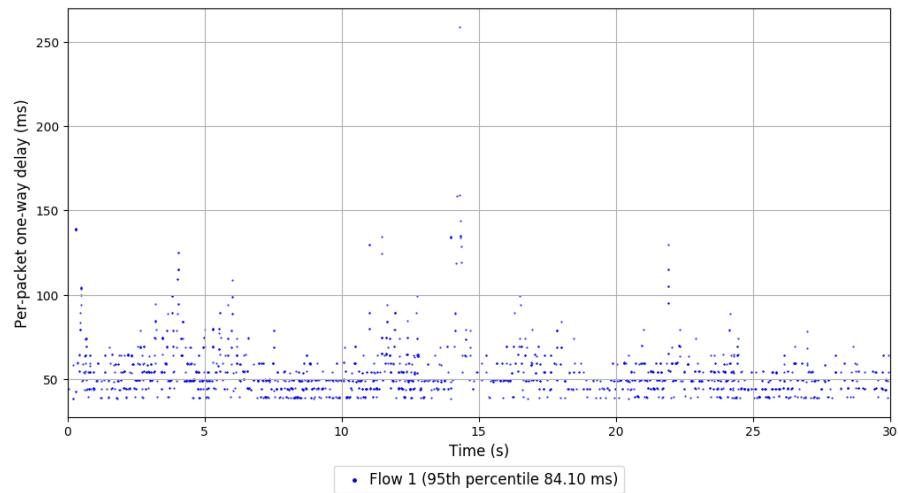
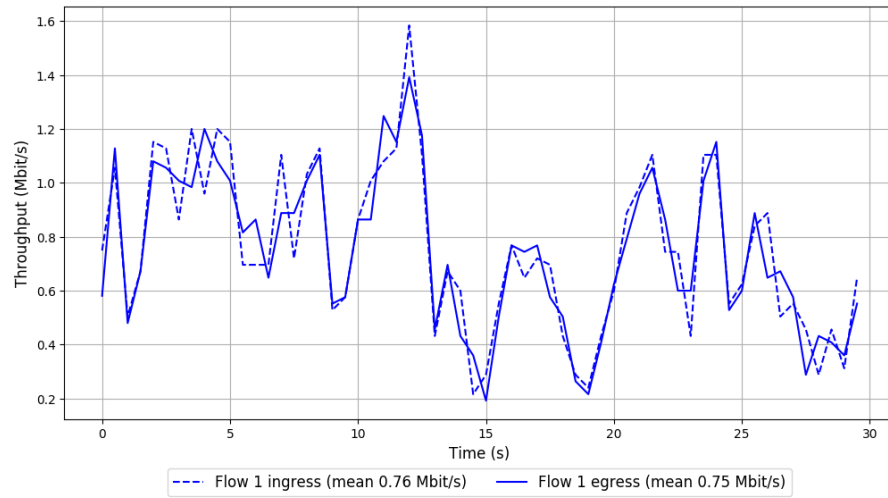
-- Flow 1:

Average throughput: 0.75 Mbit/s

95th percentile per-packet one-way delay: 84.096 ms

Loss rate: 1.27%

Run 3: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: Tue, 25 Jul 2017 06:53:19 +0000

End at: Tue, 25 Jul 2017 06:53:49 +0000

Local clock offset: 1.09 ms

Remote clock offset: -16.138 ms

Below is generated by plot.py at Tue, 25 Jul 2017 08:21:32 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.94 Mbit/s

95th percentile per-packet one-way delay: 293.616 ms

Loss rate: 0.71%

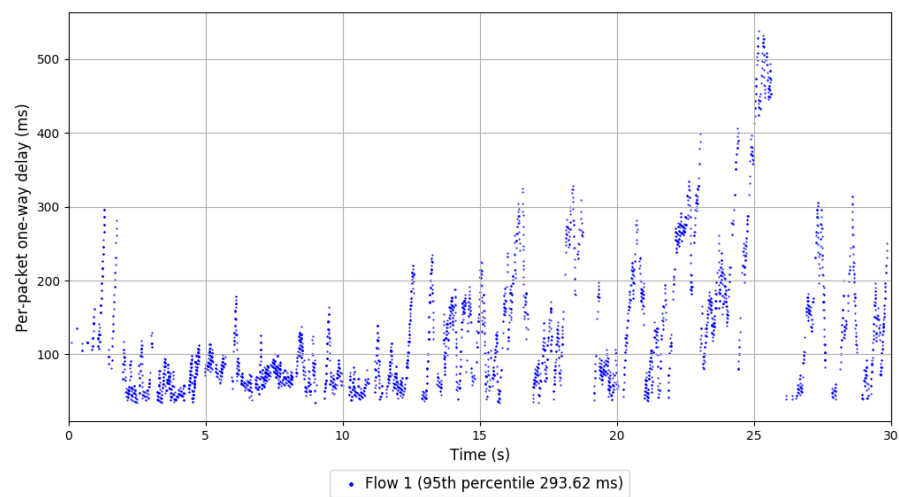
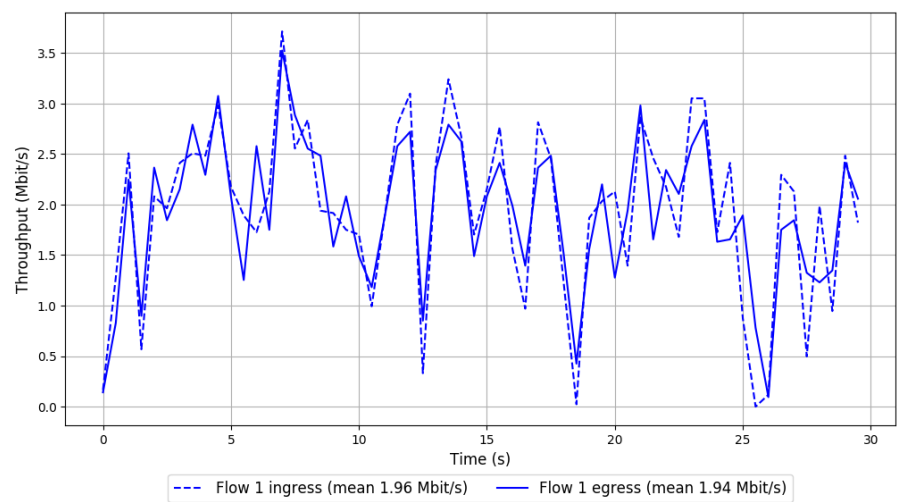
-- Flow 1:

Average throughput: 1.94 Mbit/s

95th percentile per-packet one-way delay: 293.616 ms

Loss rate: 0.71%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: Tue, 25 Jul 2017 07:09:41 +0000

End at: Tue, 25 Jul 2017 07:10:11 +0000

Local clock offset: -0.105 ms

Remote clock offset: -17.432 ms

Below is generated by plot.py at Tue, 25 Jul 2017 08:21:33 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 317.331 ms

Loss rate: 1.98%

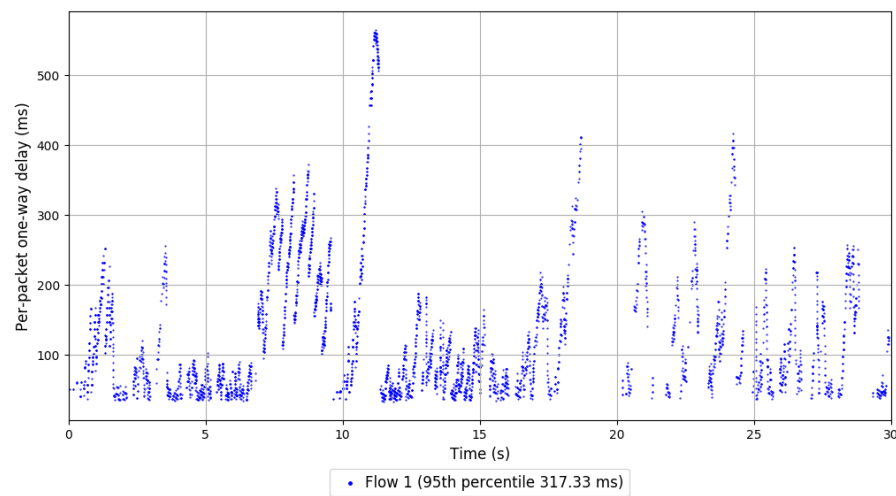
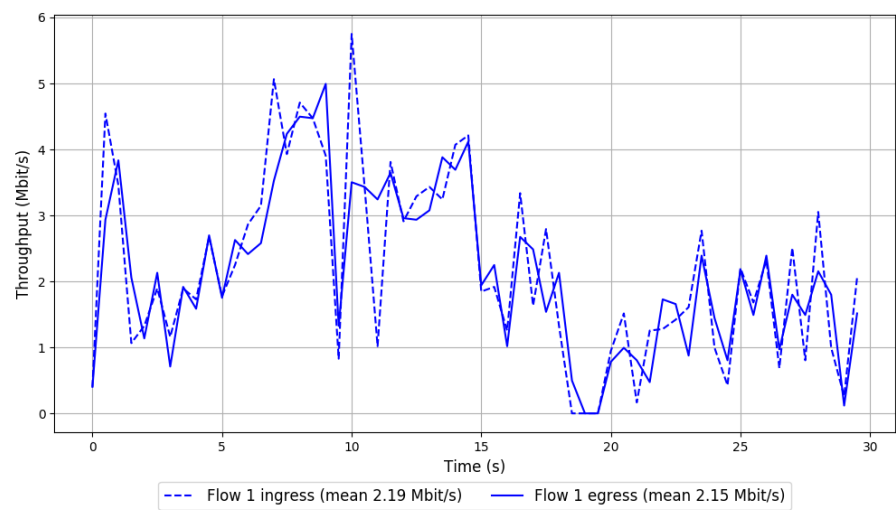
-- Flow 1:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 317.331 ms

Loss rate: 1.98%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: Tue, 25 Jul 2017 07:25:59 +0000

End at: Tue, 25 Jul 2017 07:26:29 +0000

Local clock offset: -0.013 ms

Remote clock offset: -17.649 ms

Below is generated by plot.py at Tue, 25 Jul 2017 08:21:33 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.74 Mbit/s

95th percentile per-packet one-way delay: 546.731 ms

Loss rate: 0.66%

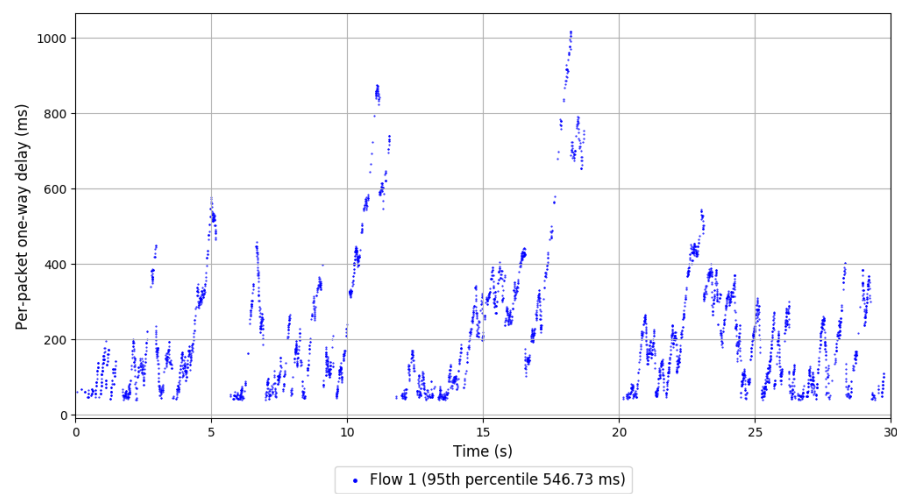
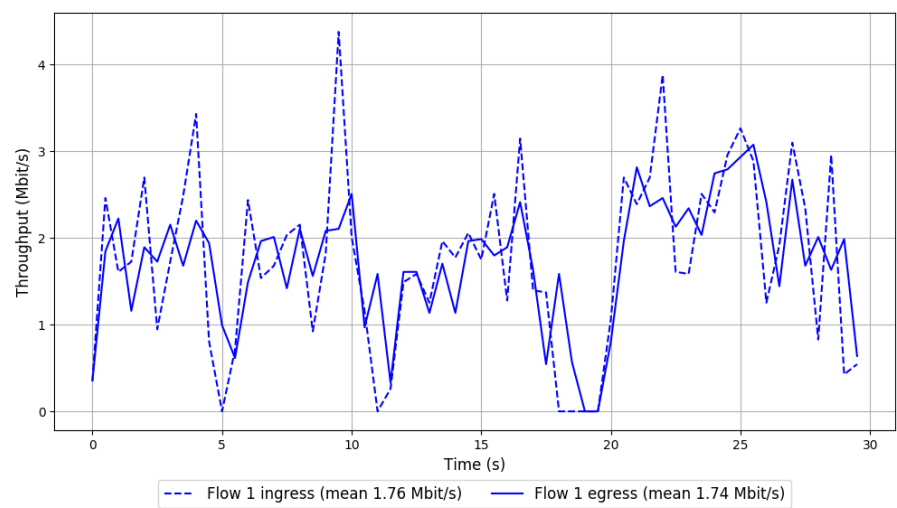
-- Flow 1:

Average throughput: 1.74 Mbit/s

95th percentile per-packet one-way delay: 546.731 ms

Loss rate: 0.66%

Run 3: Report of Verus — Data Link



Run 1: Statistics of WebRTC media

Start at: Tue, 25 Jul 2017 06:50:02 +0000

End at: Tue, 25 Jul 2017 06:50:32 +0000

Local clock offset: 2.048 ms

Remote clock offset: -16.793 ms

Below is generated by plot.py at Tue, 25 Jul 2017 08:21:34 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.26 Mbit/s

95th percentile per-packet one-way delay: 119.129 ms

Loss rate: 0.70%

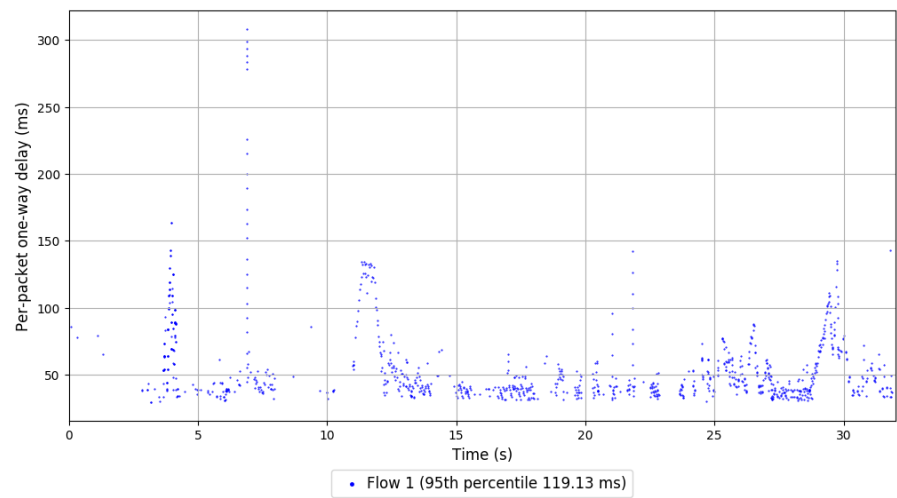
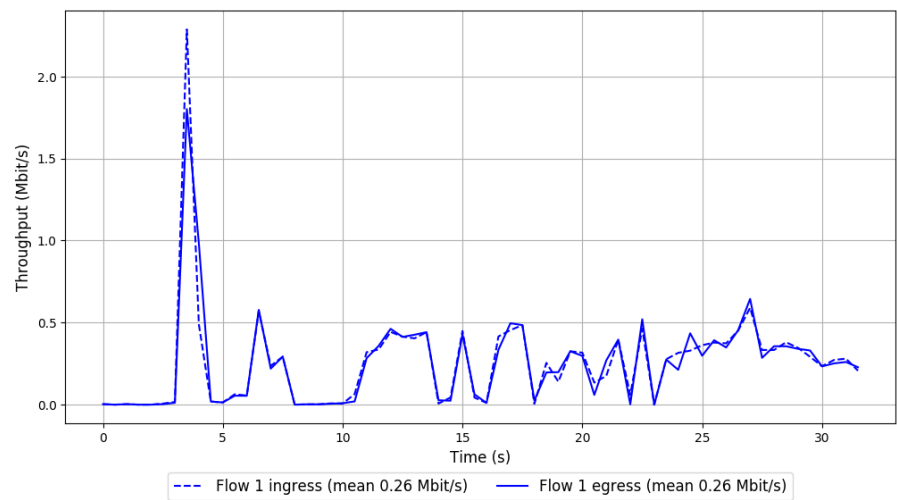
-- Flow 1:

Average throughput: 0.26 Mbit/s

95th percentile per-packet one-way delay: 119.129 ms

Loss rate: 0.70%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: Tue, 25 Jul 2017 07:06:25 +0000

End at: Tue, 25 Jul 2017 07:06:55 +0000

Local clock offset: 0.14 ms

Remote clock offset: -16.125 ms

Below is generated by plot.py at Tue, 25 Jul 2017 08:21:34 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.64 Mbit/s

95th percentile per-packet one-way delay: 113.392 ms

Loss rate: 0.11%

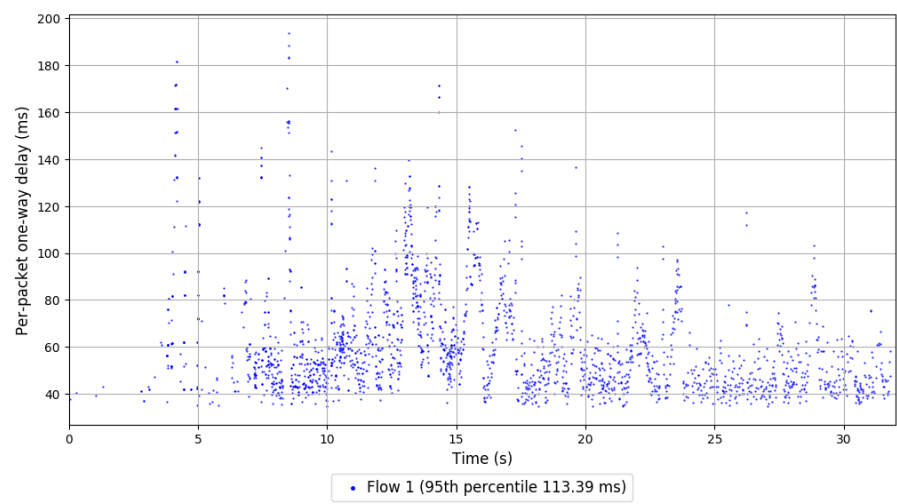
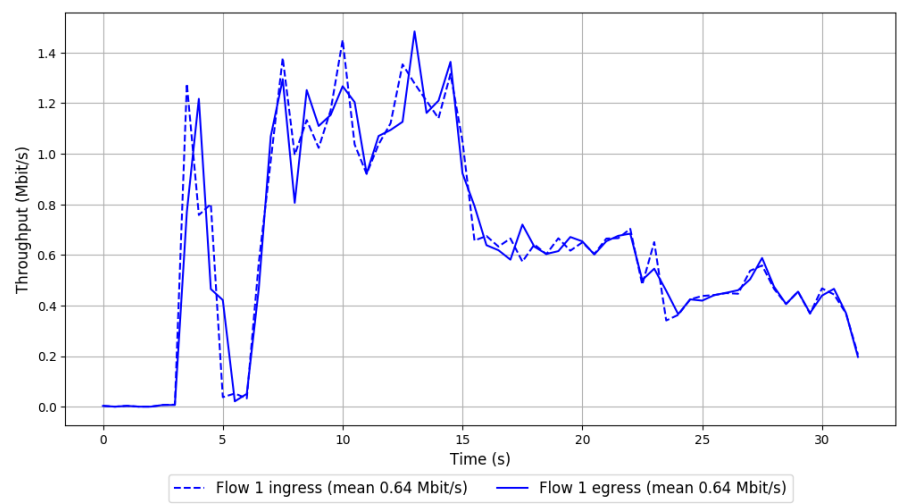
-- Flow 1:

Average throughput: 0.64 Mbit/s

95th percentile per-packet one-way delay: 113.392 ms

Loss rate: 0.11%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: Tue, 25 Jul 2017 07:22:43 +0000

End at: Tue, 25 Jul 2017 07:23:13 +0000

Local clock offset: 0.641 ms

Remote clock offset: -18.544 ms

Below is generated by plot.py at Tue, 25 Jul 2017 08:21:34 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.00 Mbit/s

95th percentile per-packet one-way delay: 100.789 ms

Loss rate: 0.45%

-- Flow 1:

Average throughput: 1.00 Mbit/s

95th percentile per-packet one-way delay: 100.789 ms

Loss rate: 0.45%

Run 3: Report of WebRTC media — Data Link

