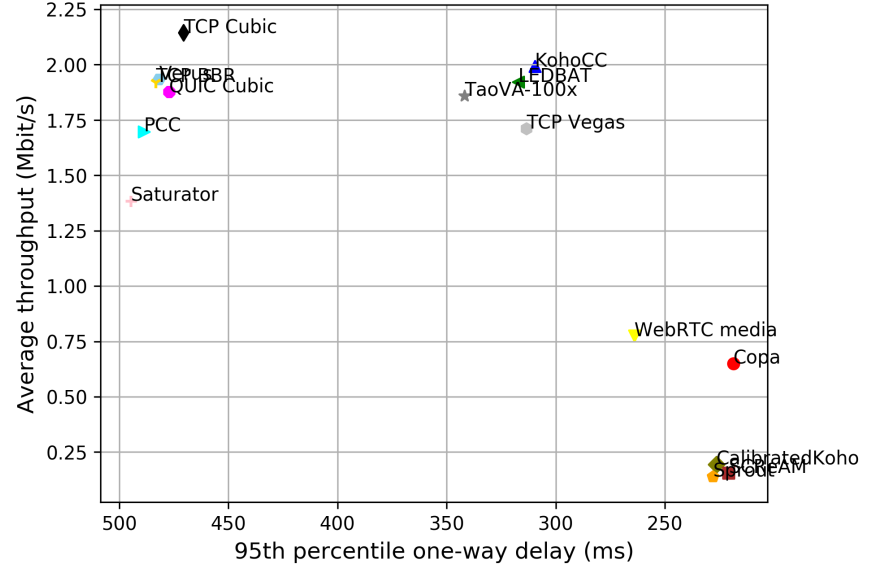


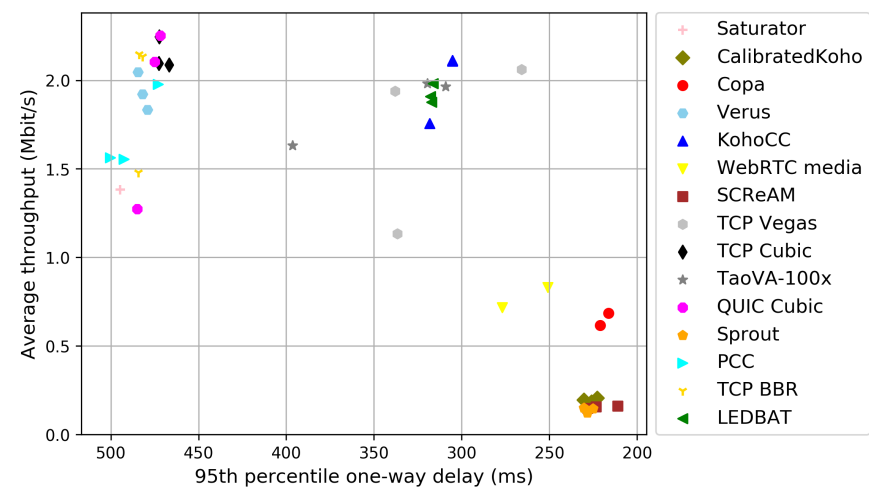
Pantheon Summary (Generated at Thu, 13 Jul 2017 21:16:42 +0000 with pantheon version d7b3554d9e52d3442ab19bc1e1c71f4629d4a0ac)
Repeated the test of 15 congestion control schemes 3 times.
Each test lasted for 30 seconds running 1 flow.
Data path: China ppp0 (*remote*) →AWS Korea Ethernet (*local*).
NTP offset measured against ntp.nict.jp and has been applied to correct the timestamps in logs.

```
git branch: master @ d7b3554d9e52d3442ab19bc1e1c71f4629d4a0ac
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 @ f1a14bffe749737437f61b1eaeab30b267cde681
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 China ppp0 to AWS Korea Ethernet, 3 runs of 30s each per scheme
(mean of all runs by scheme)



test from China ppp0 to AWS Korea Ethernet, 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	1.92	483.31	9.16
CalibratedKoho	3	0.20	226.38	1.70
Copa	3	0.65	218.63	0.67
TCP Cubic	3	2.15	470.61	3.06
KohoCC	3	1.99	309.65	1.20
LEDBAT	3	1.92	317.13	1.44
PCC	3	1.70	488.68	68.22
QUIC Cubic	3	1.87	477.24	3.66
Saturator	3	1.38	494.73	49.66
SCReAM	3	0.16	220.87	0.77
Sprout	3	0.14	227.97	0.64
TaoVA-100x	3	1.86	341.75	2.67
TCP Vegas	3	1.71	313.48	1.68
Verus	3	1.93	481.84	28.90
WebRTC media	3	0.77	263.90	1.56

Run 1: Statistics of TCP BBR

Start at: Thu, 13 Jul 2017 20:26:43 +0000

End at: Thu, 13 Jul 2017 20:27:13 +0000

Local clock offset: -0.006 ms

Remote clock offset: -0.307 ms

Below is generated by plot.py at Thu, 13 Jul 2017 21:16:13 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.14 Mbit/s

95th percentile per-packet one-way delay: 481.871 ms

Loss rate: 9.94%

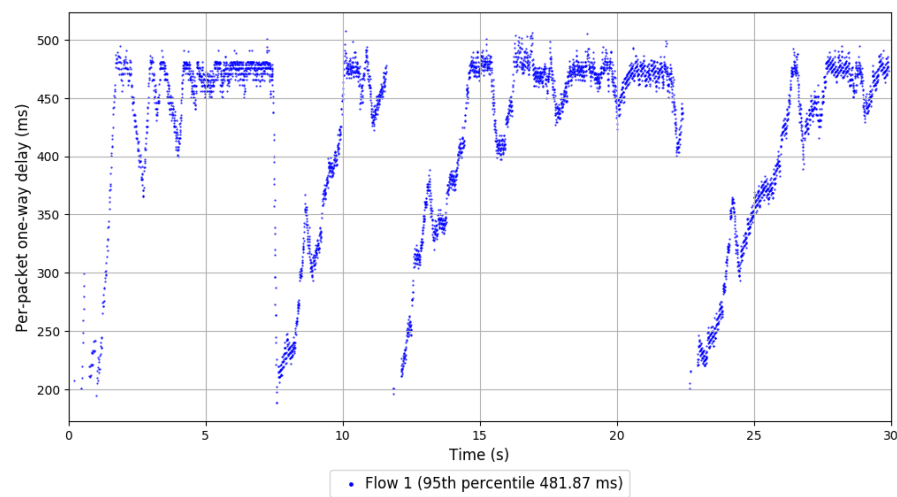
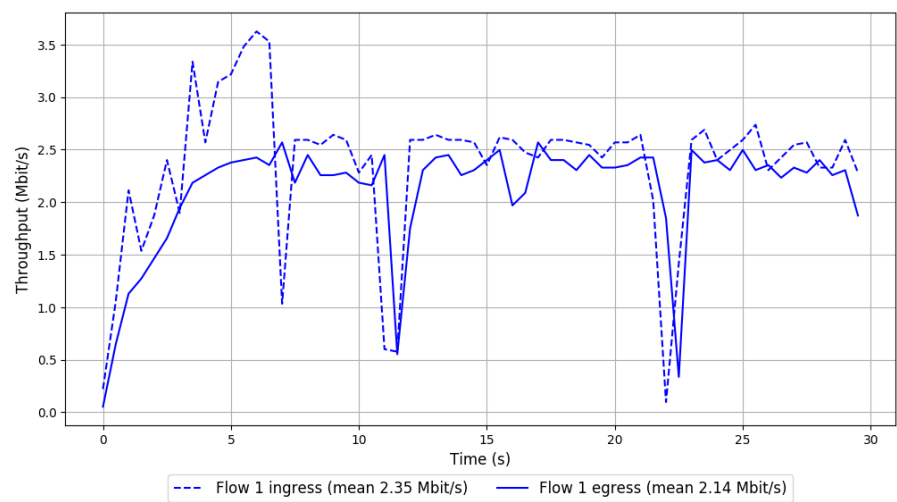
-- Flow 1:

Average throughput: 2.14 Mbit/s

95th percentile per-packet one-way delay: 481.871 ms

Loss rate: 9.94%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: Thu, 13 Jul 2017 20:44:11 +0000

End at: Thu, 13 Jul 2017 20:44:41 +0000

Local clock offset: -1.599 ms

Remote clock offset: -0.298 ms

Below is generated by plot.py at Thu, 13 Jul 2017 21:16:13 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 483.827 ms

Loss rate: 7.43%

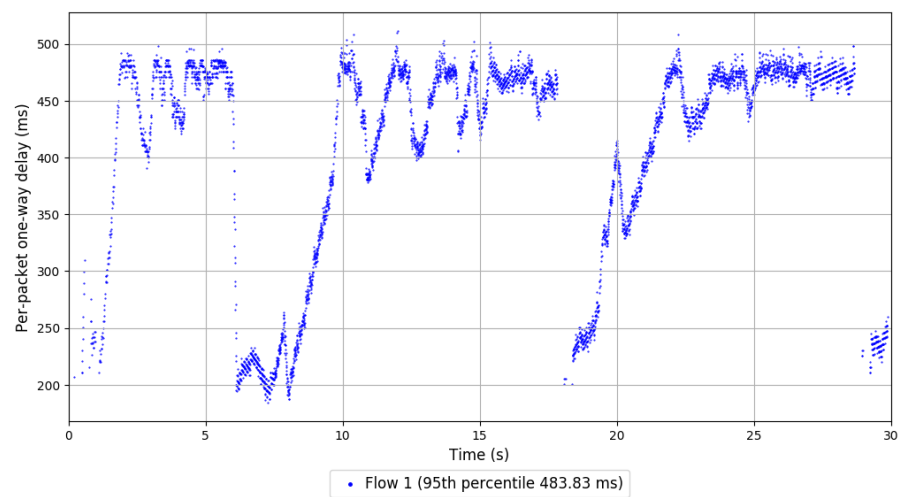
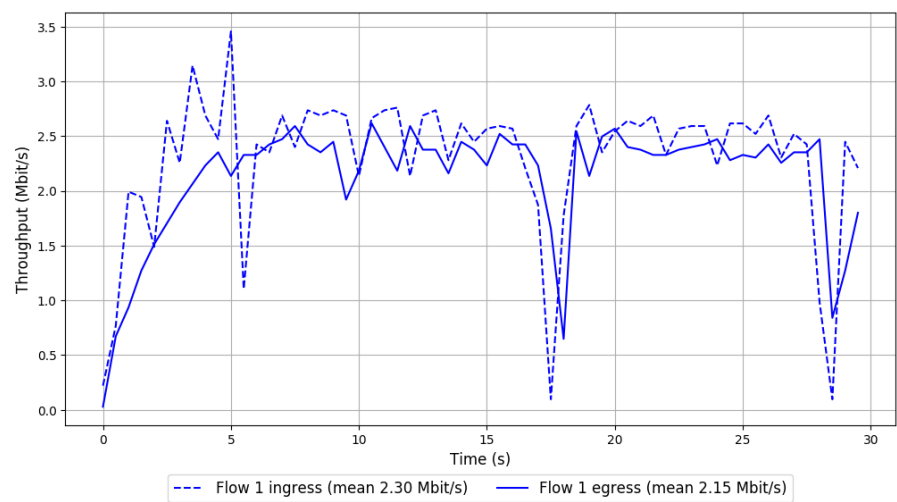
-- Flow 1:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 483.827 ms

Loss rate: 7.43%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: Thu, 13 Jul 2017 21:01:39 +0000

End at: Thu, 13 Jul 2017 21:02:09 +0000

Local clock offset: -0.11 ms

Remote clock offset: -0.316 ms

Below is generated by plot.py at Thu, 13 Jul 2017 21:16:14 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.48 Mbit/s

95th percentile per-packet one-way delay: 484.222 ms

Loss rate: 10.11%

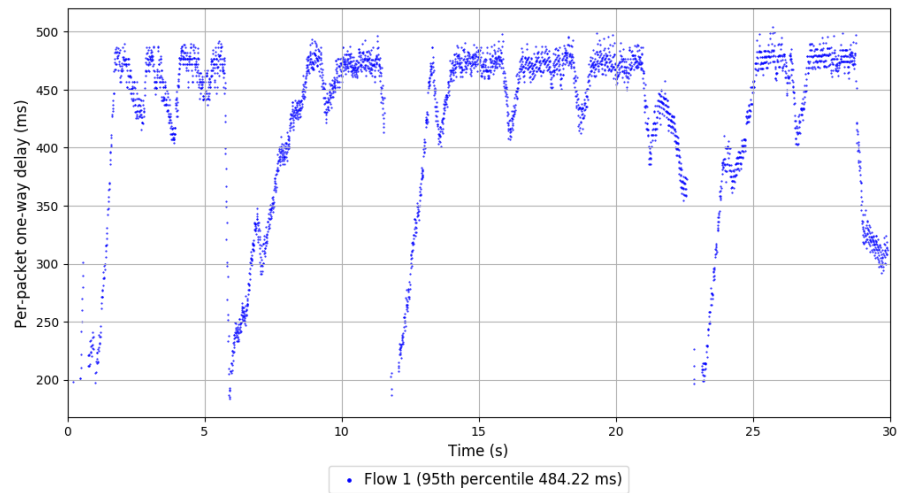
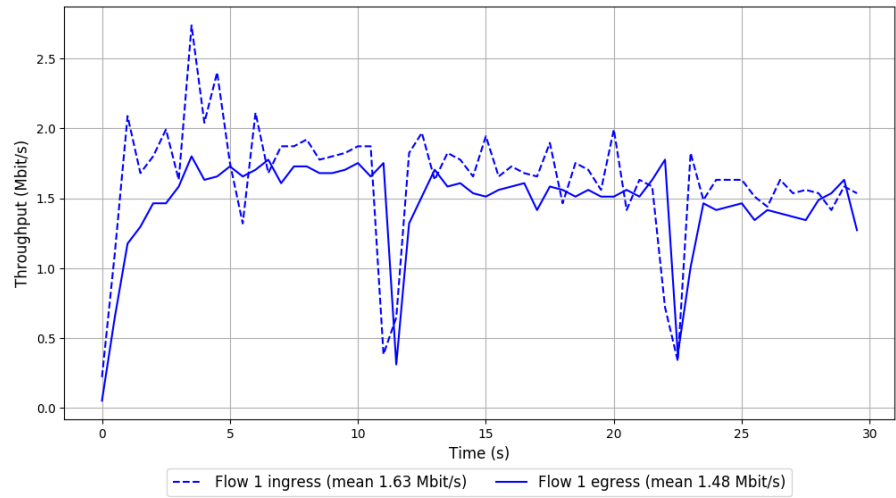
-- Flow 1:

Average throughput: 1.48 Mbit/s

95th percentile per-packet one-way delay: 484.222 ms

Loss rate: 10.11%

Run 3: Report of TCP BBR — Data Link



Run 1: Statistics of CalibratedKoho

Start at: Thu, 13 Jul 2017 20:25:34 +0000

End at: Thu, 13 Jul 2017 20:26:04 +0000

Local clock offset: 0.053 ms

Remote clock offset: -0.293 ms

Below is generated by plot.py at Thu, 13 Jul 2017 21:16:14 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 225.976 ms

Loss rate: 1.73%

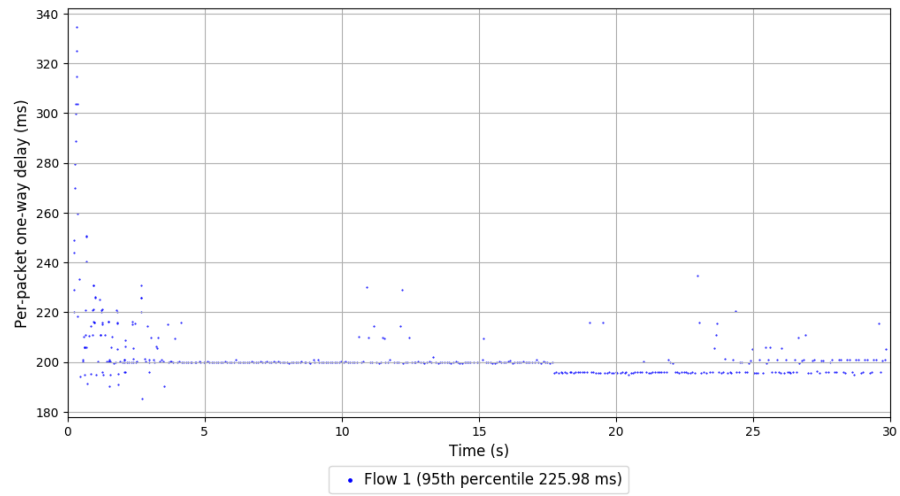
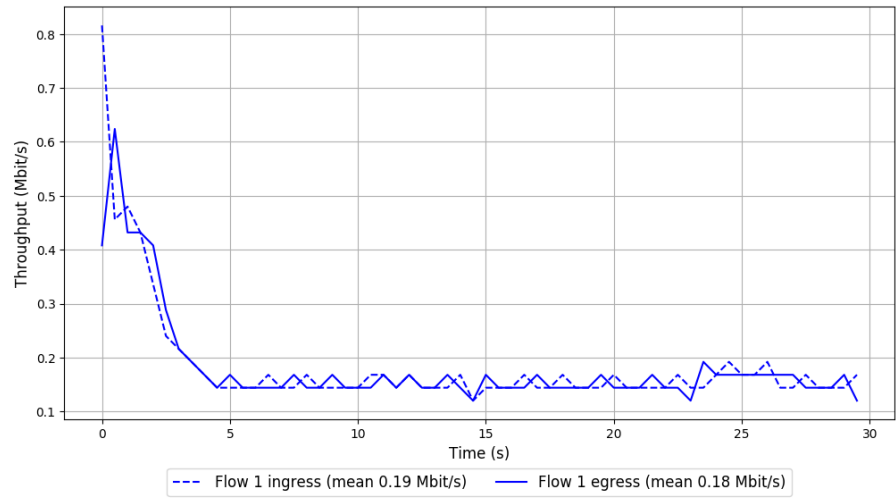
-- Flow 1:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 225.976 ms

Loss rate: 1.73%

Run 1: Report of CalibratedKoho — Data Link



Run 2: Statistics of CalibratedKoho

Start at: Thu, 13 Jul 2017 20:43:02 +0000

End at: Thu, 13 Jul 2017 20:43:32 +0000

Local clock offset: -1.553 ms

Remote clock offset: -0.273 ms

Below is generated by plot.py at Thu, 13 Jul 2017 21:16:15 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 222.692 ms

Loss rate: 1.55%

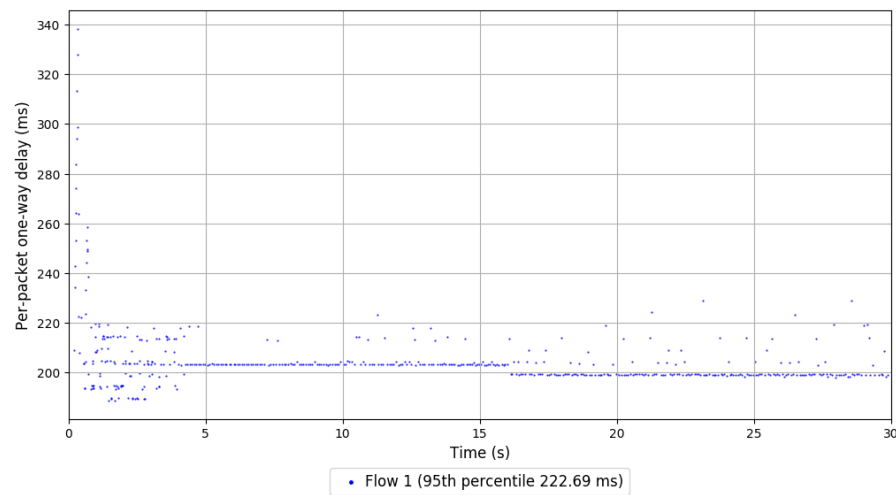
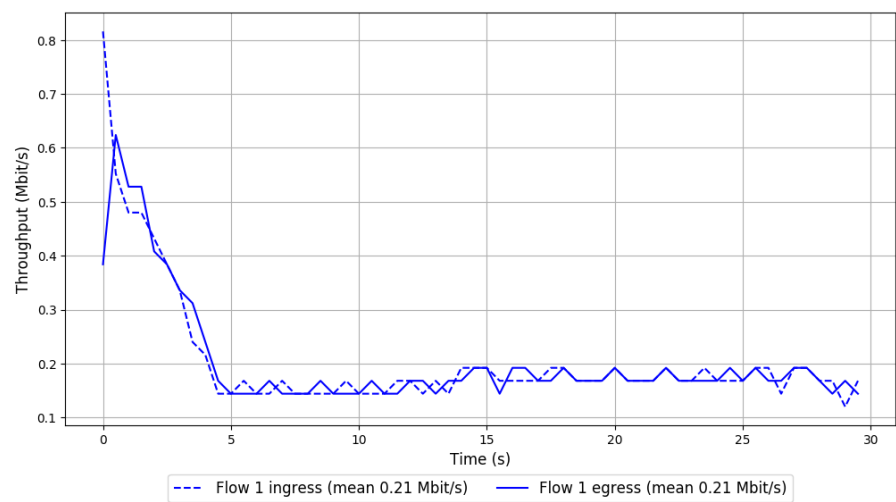
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 222.692 ms

Loss rate: 1.55%

Run 2: Report of CalibratedKoho — Data Link



Run 3: Statistics of CalibratedKoho

Start at: Thu, 13 Jul 2017 21:00:30 +0000

End at: Thu, 13 Jul 2017 21:01:00 +0000

Local clock offset: -0.145 ms

Remote clock offset: -0.36 ms

Below is generated by plot.py at Thu, 13 Jul 2017 21:16:15 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: 230.465 ms

Loss rate: 1.83%

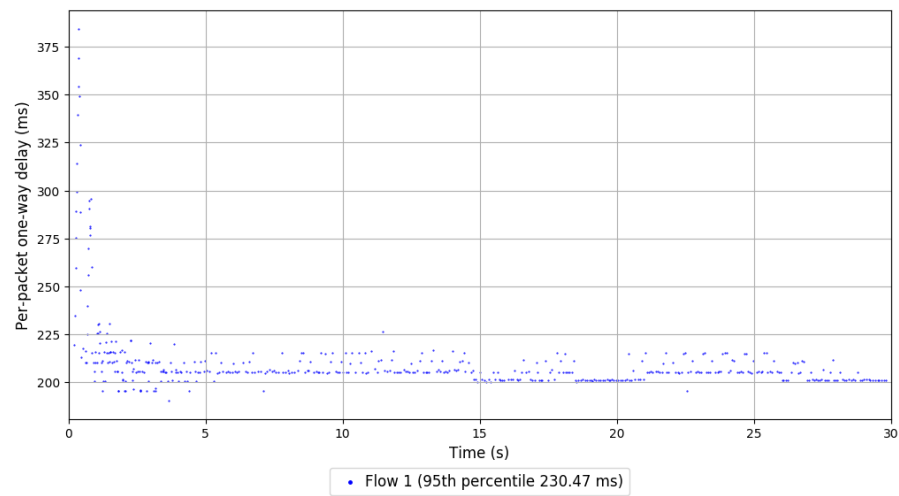
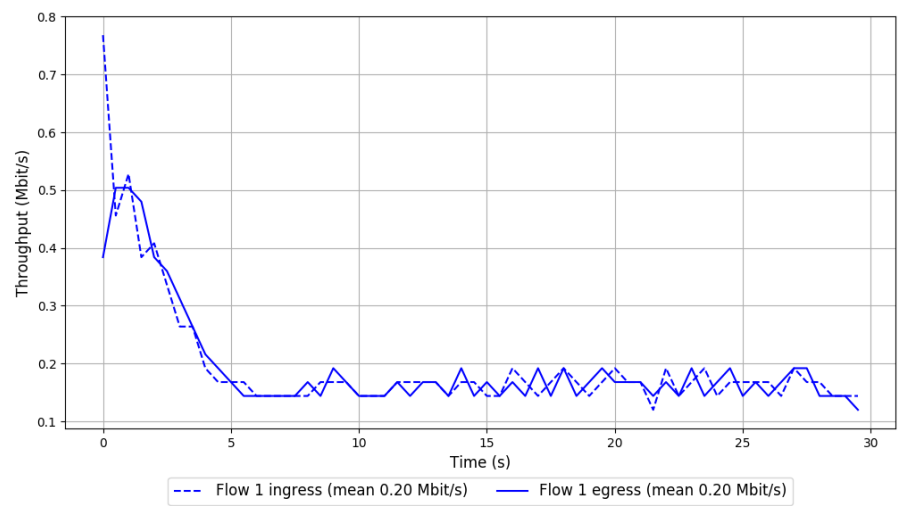
-- Flow 1:

Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: 230.465 ms

Loss rate: 1.83%

Run 3: Report of CalibratedKoho — Data Link



Run 1: Statistics of Copa

Start at: Thu, 13 Jul 2017 20:36:03 +0000

End at: Thu, 13 Jul 2017 20:36:33 +0000

Local clock offset: -1.458 ms

Remote clock offset: -0.291 ms

Below is generated by plot.py at Thu, 13 Jul 2017 21:16:16 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.62 Mbit/s

95th percentile per-packet one-way delay: 221.067 ms

Loss rate: 0.70%

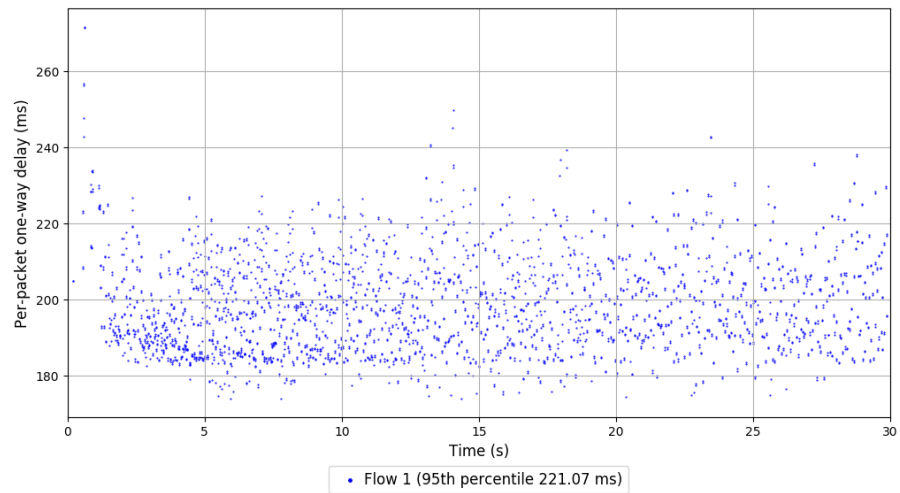
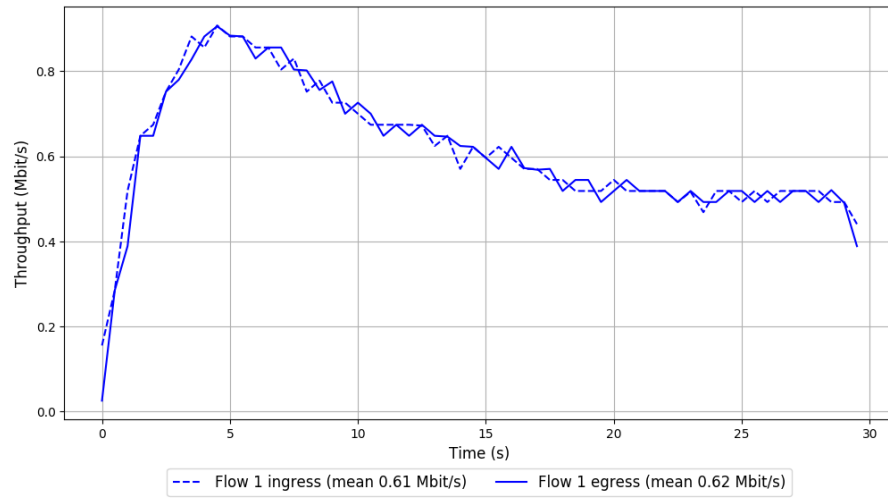
-- Flow 1:

Average throughput: 0.62 Mbit/s

95th percentile per-packet one-way delay: 221.067 ms

Loss rate: 0.70%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: Thu, 13 Jul 2017 20:53:30 +0000

End at: Thu, 13 Jul 2017 20:54:00 +0000

Local clock offset: -0.213 ms

Remote clock offset: -0.32 ms

Below is generated by plot.py at Thu, 13 Jul 2017 21:16:17 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.68 Mbit/s

95th percentile per-packet one-way delay: 216.199 ms

Loss rate: 0.63%

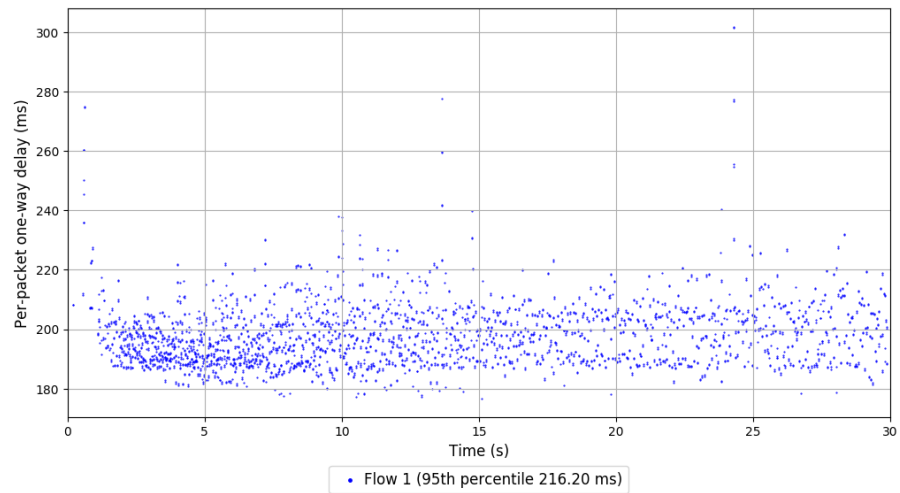
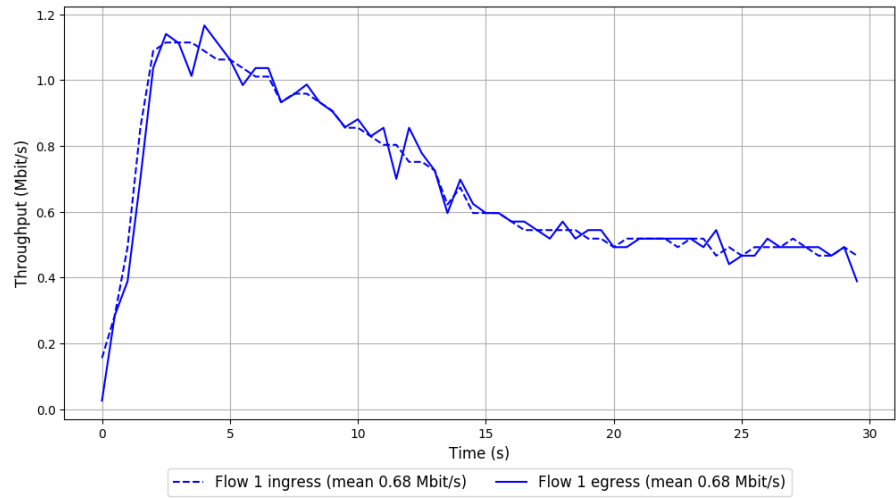
-- Flow 1:

Average throughput: 0.68 Mbit/s

95th percentile per-packet one-way delay: 216.199 ms

Loss rate: 0.63%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

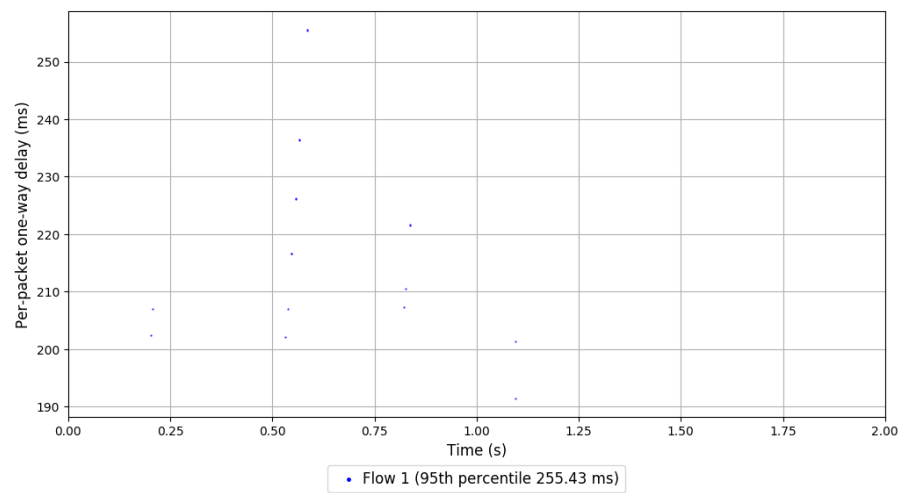
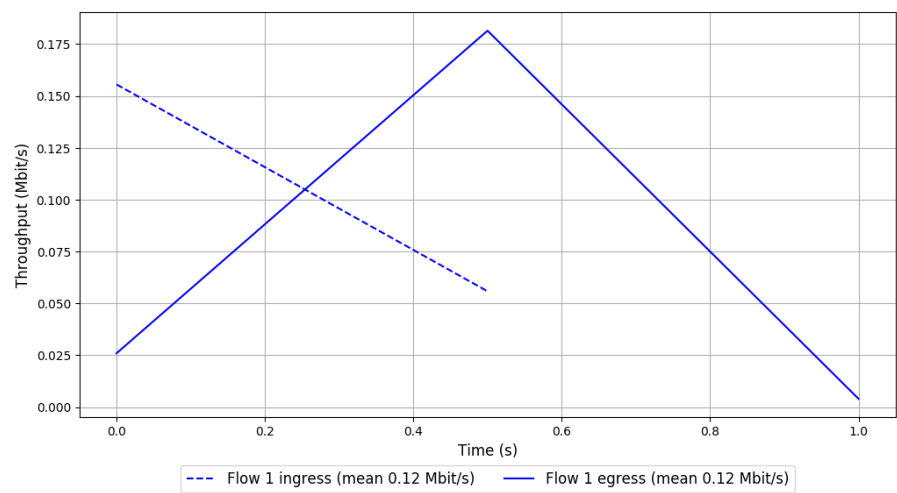
Start at: Thu, 13 Jul 2017 21:11:01 +0000

End at: Thu, 13 Jul 2017 21:11:31 +0000

Local clock offset: 0.001 ms

Remote clock offset: 0.077 ms

Run 3: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: Thu, 13 Jul 2017 20:34:53 +0000

End at: Thu, 13 Jul 2017 20:35:23 +0000

Local clock offset: -1.552 ms

Remote clock offset: -0.305 ms

Below is generated by plot.py at Thu, 13 Jul 2017 21:16:18 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: 472.375 ms

Loss rate: 2.83%

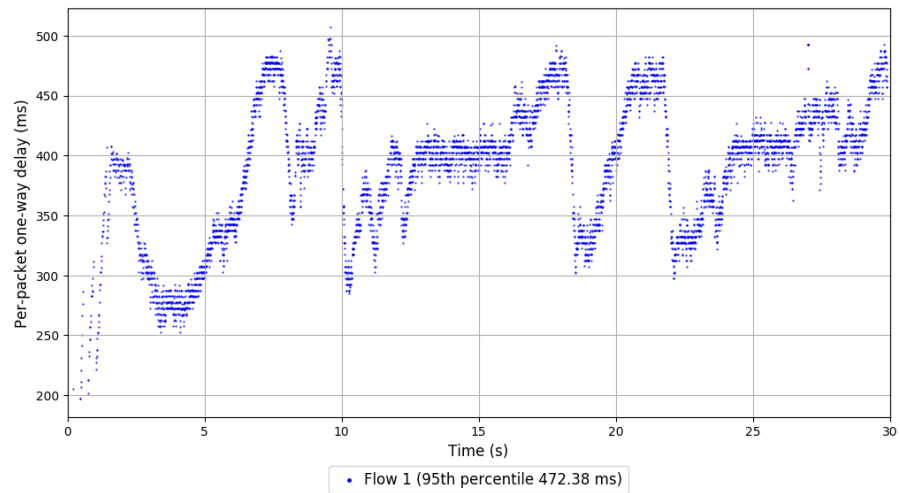
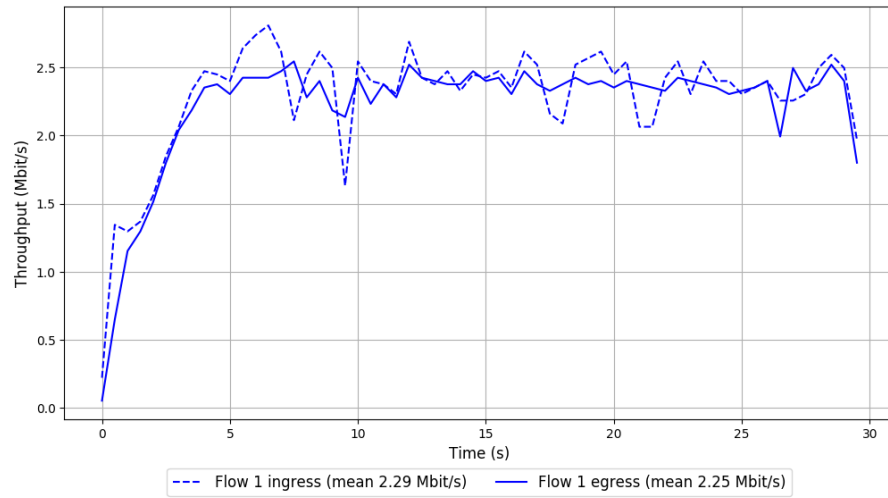
-- Flow 1:

Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: 472.375 ms

Loss rate: 2.83%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: Thu, 13 Jul 2017 20:52:20 +0000

End at: Thu, 13 Jul 2017 20:52:50 +0000

Local clock offset: -0.246 ms

Remote clock offset: -0.302 ms

Below is generated by plot.py at Thu, 13 Jul 2017 21:16:18 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.10 Mbit/s

95th percentile per-packet one-way delay: 472.695 ms

Loss rate: 3.50%

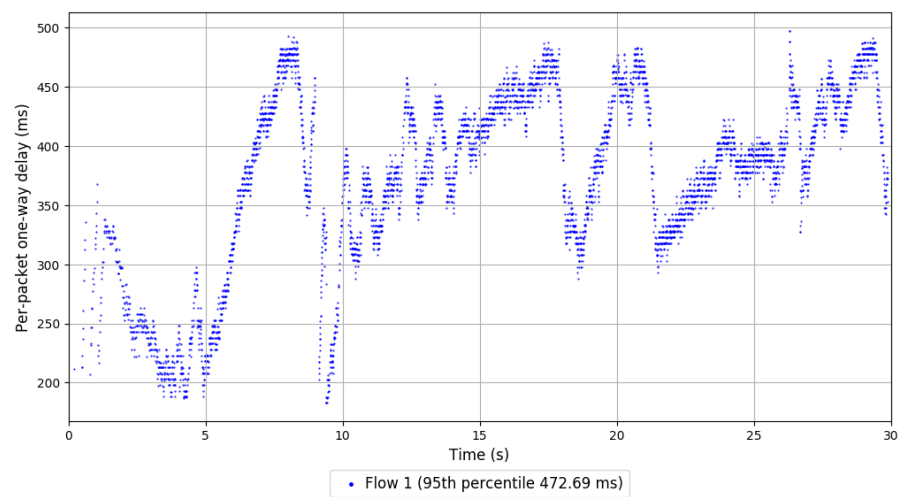
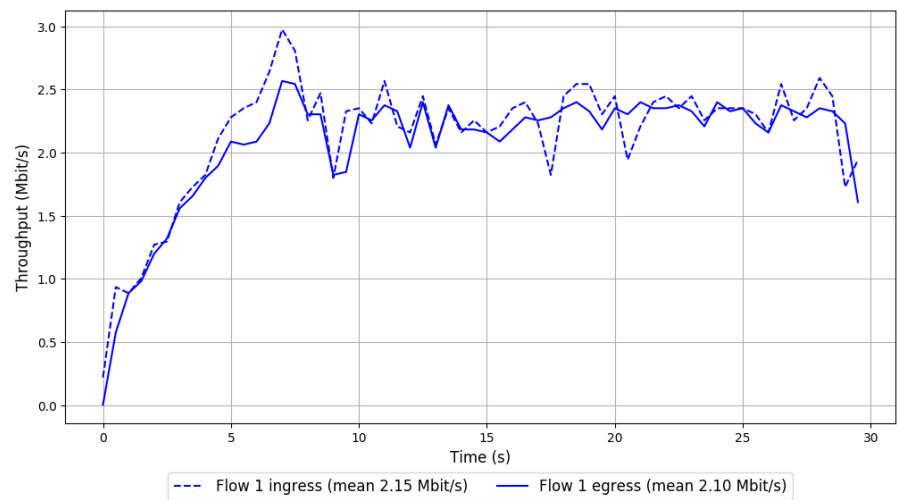
-- Flow 1:

Average throughput: 2.10 Mbit/s

95th percentile per-packet one-way delay: 472.695 ms

Loss rate: 3.50%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: Thu, 13 Jul 2017 21:09:51 +0000

End at: Thu, 13 Jul 2017 21:10:21 +0000

Local clock offset: -1.52 ms

Remote clock offset: -0.2 ms

Below is generated by plot.py at Thu, 13 Jul 2017 21:16:20 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.09 Mbit/s

95th percentile per-packet one-way delay: 466.764 ms

Loss rate: 2.86%

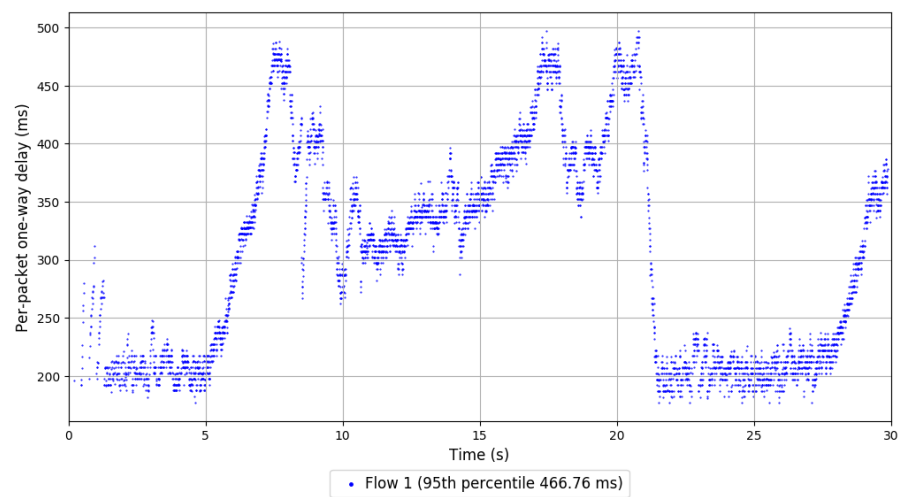
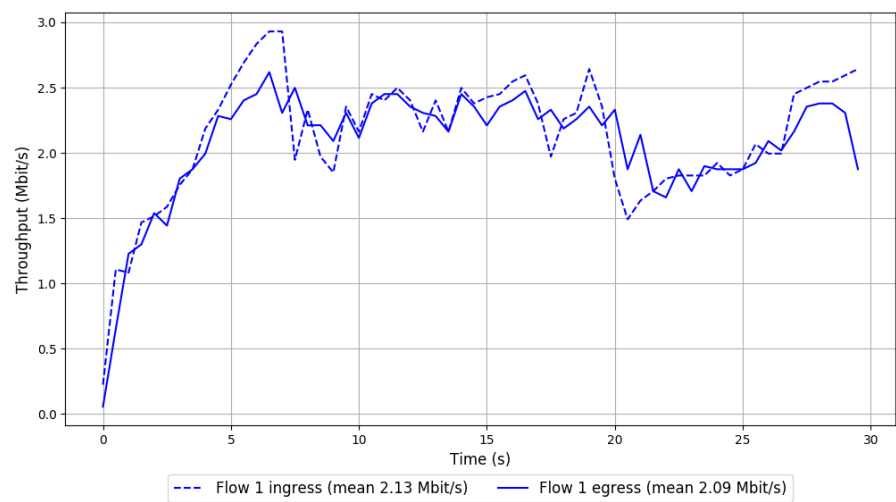
-- Flow 1:

Average throughput: 2.09 Mbit/s

95th percentile per-packet one-way delay: 466.764 ms

Loss rate: 2.86%

Run 3: Report of TCP Cubic — Data Link



Run 1: Statistics of KohoCC

Start at: Thu, 13 Jul 2017 20:32:33 +0000

End at: Thu, 13 Jul 2017 20:33:03 +0000

Local clock offset: -0.076 ms

Remote clock offset: -0.324 ms

Below is generated by plot.py at Thu, 13 Jul 2017 21:16:20 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 305.275 ms

Loss rate: 1.19%

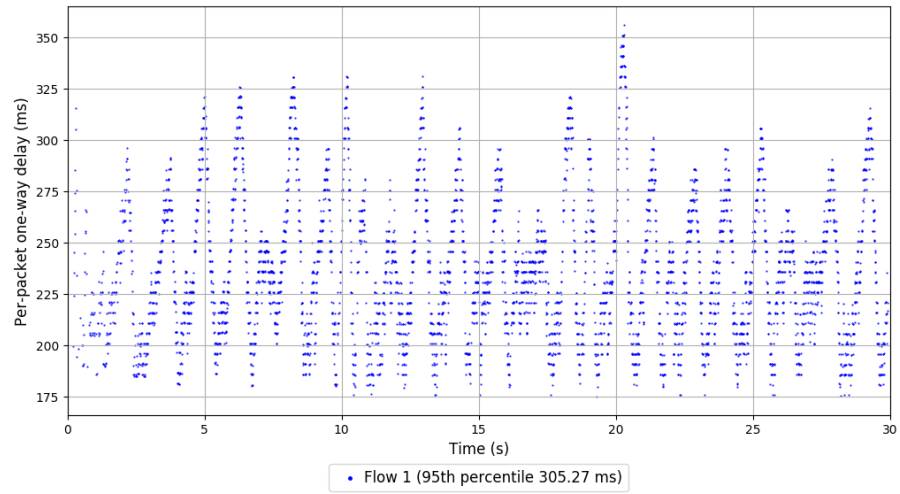
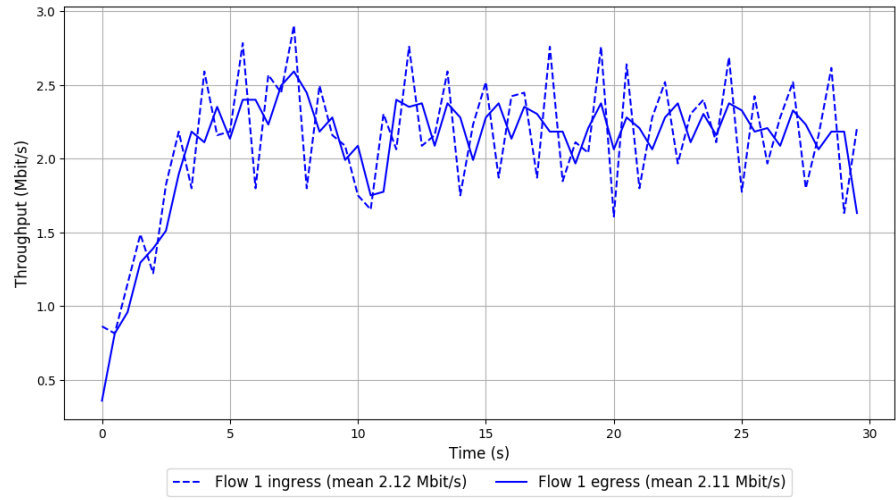
-- Flow 1:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 305.275 ms

Loss rate: 1.19%

Run 1: Report of KohoCC — Data Link



Run 2: Statistics of KohoCC

Start at: Thu, 13 Jul 2017 20:50:00 +0000

End at: Thu, 13 Jul 2017 20:50:30 +0000

Local clock offset: -1.7 ms

Remote clock offset: -0.348 ms

Below is generated by plot.py at Thu, 13 Jul 2017 21:16:21 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 305.344 ms

Loss rate: 1.12%

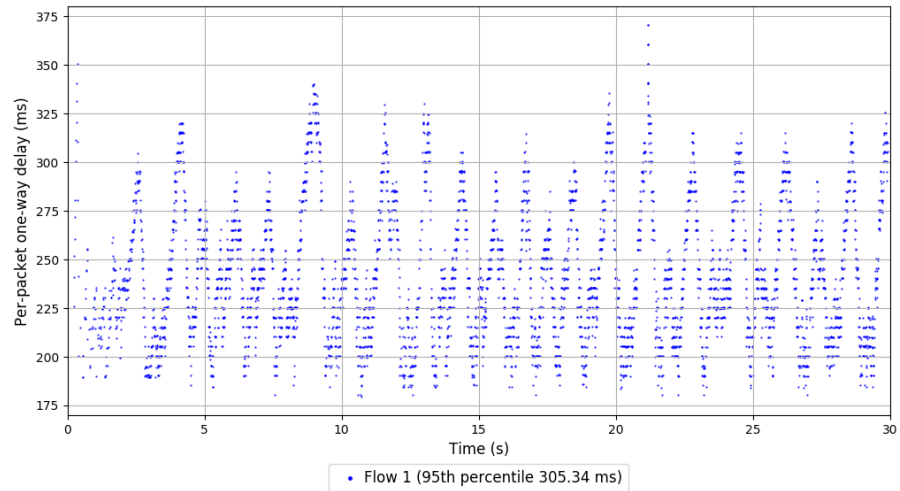
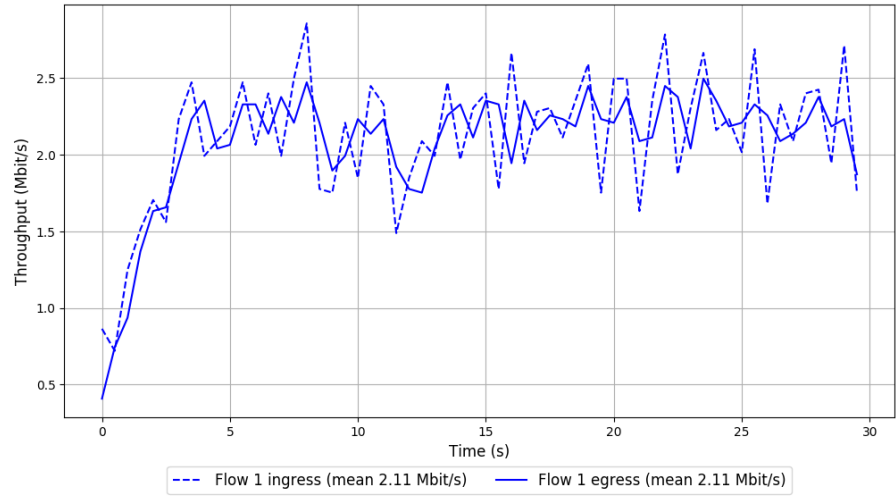
-- Flow 1:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 305.344 ms

Loss rate: 1.12%

Run 2: Report of KohoCC — Data Link



Run 3: Statistics of KohoCC

Start at: Thu, 13 Jul 2017 21:07:30 +0000

End at: Thu, 13 Jul 2017 21:08:00 +0000

Local clock offset: -0.018 ms

Remote clock offset: -0.023 ms

Below is generated by plot.py at Thu, 13 Jul 2017 21:16:21 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.76 Mbit/s

95th percentile per-packet one-way delay: 318.321 ms

Loss rate: 1.29%

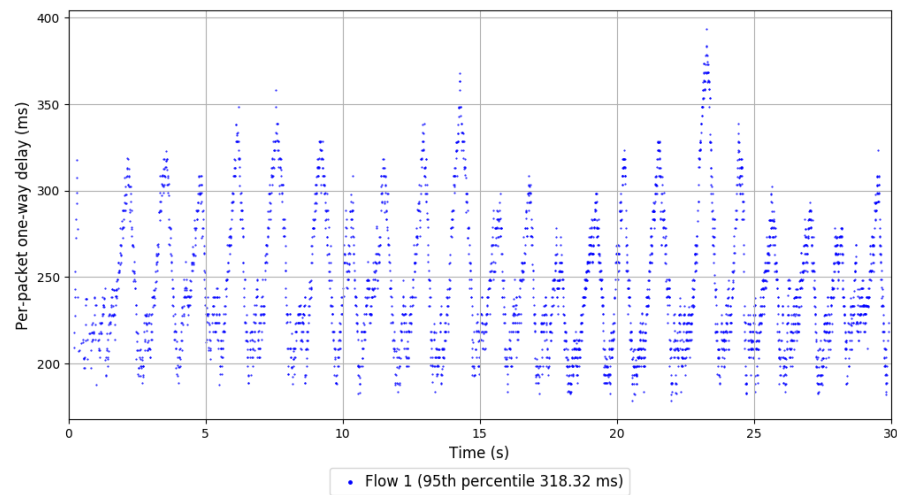
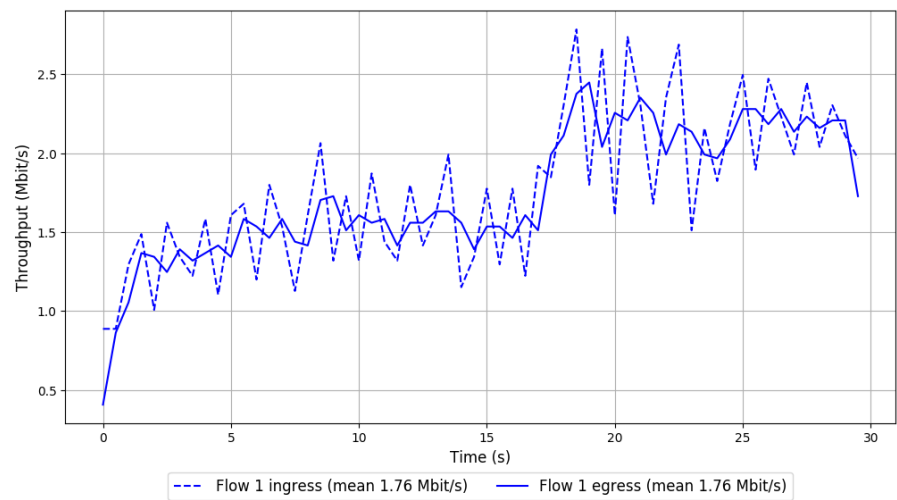
-- Flow 1:

Average throughput: 1.76 Mbit/s

95th percentile per-packet one-way delay: 318.321 ms

Loss rate: 1.29%

Run 3: Report of KohoCC — Data Link



Run 1: Statistics of LEDBAT

Start at: Thu, 13 Jul 2017 20:27:54 +0000

End at: Thu, 13 Jul 2017 20:28:24 +0000

Local clock offset: -1.345 ms

Remote clock offset: -0.367 ms

Below is generated by plot.py at Thu, 13 Jul 2017 21:16:22 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.98 Mbit/s

95th percentile per-packet one-way delay: 316.420 ms

Loss rate: 1.39%

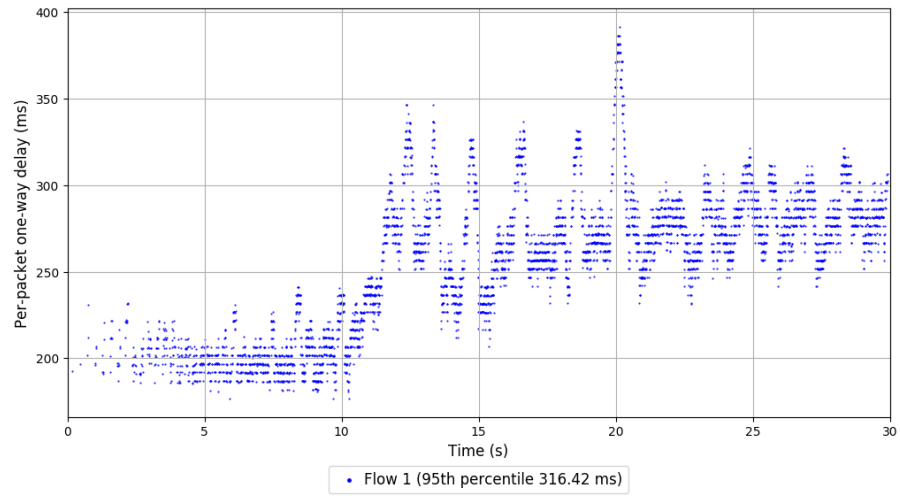
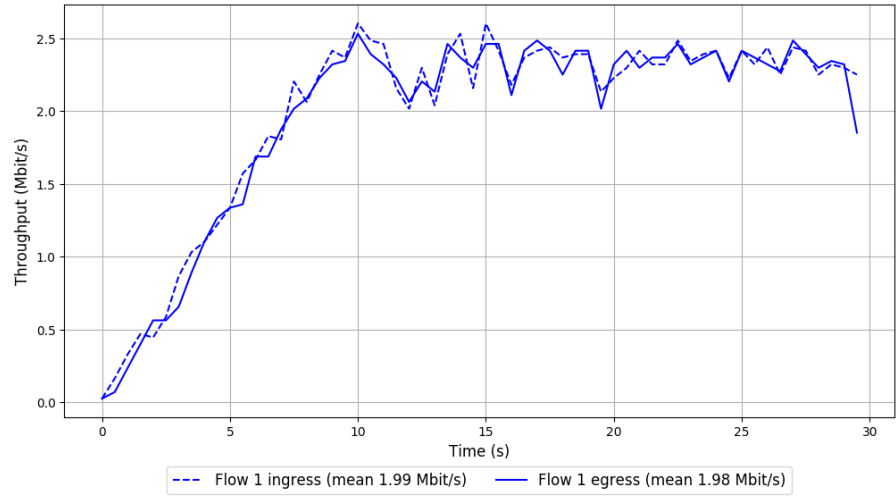
-- Flow 1:

Average throughput: 1.98 Mbit/s

95th percentile per-packet one-way delay: 316.420 ms

Loss rate: 1.39%

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: Thu, 13 Jul 2017 20:45:21 +0000

End at: Thu, 13 Jul 2017 20:45:51 +0000

Local clock offset: -0.239 ms

Remote clock offset: -0.35 ms

Below is generated by plot.py at Thu, 13 Jul 2017 21:16:23 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.91 Mbit/s

95th percentile per-packet one-way delay: 317.805 ms

Loss rate: 1.43%

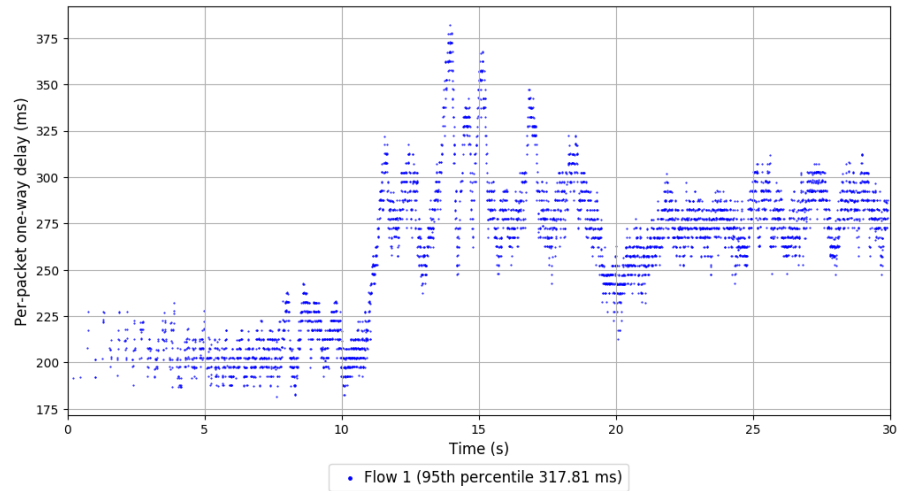
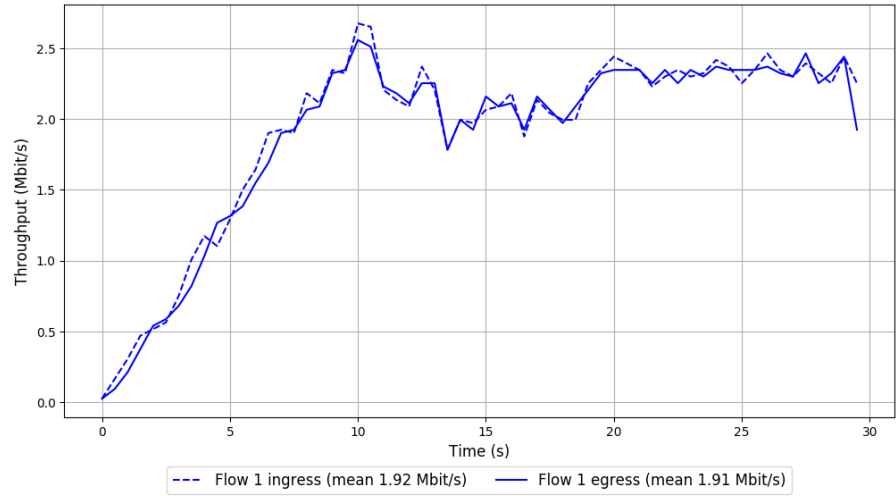
-- Flow 1:

Average throughput: 1.91 Mbit/s

95th percentile per-packet one-way delay: 317.805 ms

Loss rate: 1.43%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: Thu, 13 Jul 2017 21:02:50 +0000

End at: Thu, 13 Jul 2017 21:03:20 +0000

Local clock offset: -1.642 ms

Remote clock offset: -0.35 ms

Below is generated by plot.py at Thu, 13 Jul 2017 21:16:23 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.88 Mbit/s

95th percentile per-packet one-way delay: 317.180 ms

Loss rate: 1.49%

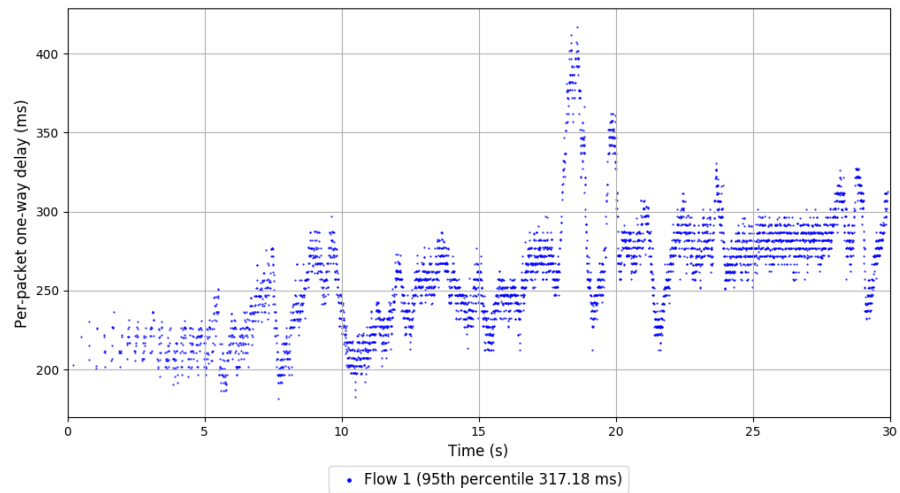
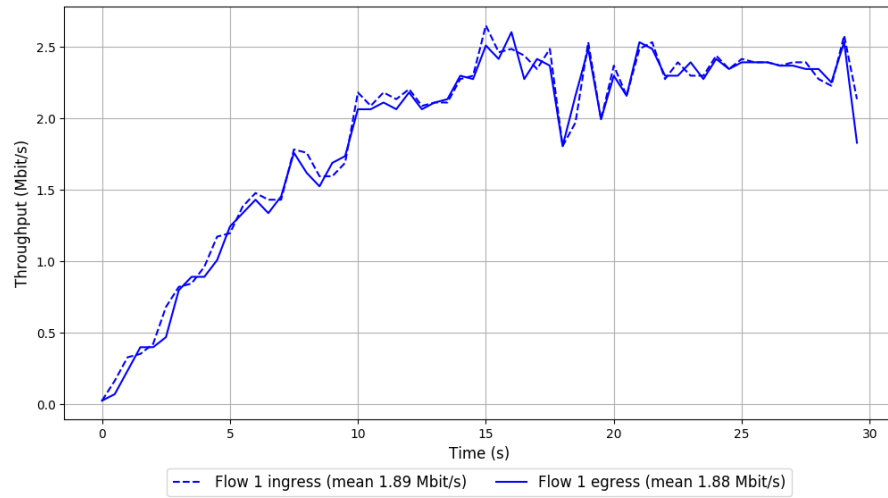
-- Flow 1:

Average throughput: 1.88 Mbit/s

95th percentile per-packet one-way delay: 317.180 ms

Loss rate: 1.49%

Run 3: Report of LEDBAT — Data Link



Run 1: Statistics of PCC

Start at: Thu, 13 Jul 2017 20:24:24 +0000

End at: Thu, 13 Jul 2017 20:24:54 +0000

Local clock offset: -0.075 ms

Remote clock offset: -0.371 ms

Below is generated by plot.py at Thu, 13 Jul 2017 21:16:24 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.98 Mbit/s

95th percentile per-packet one-way delay: 473.159 ms

Loss rate: 74.59%

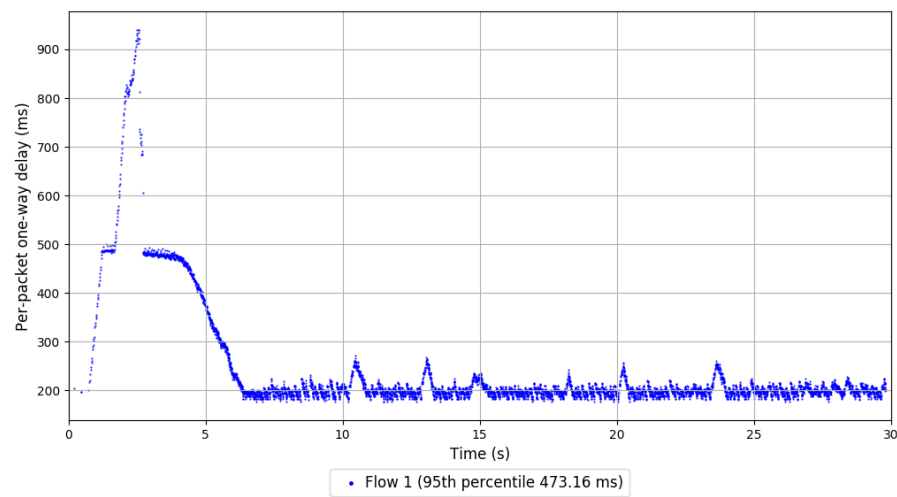
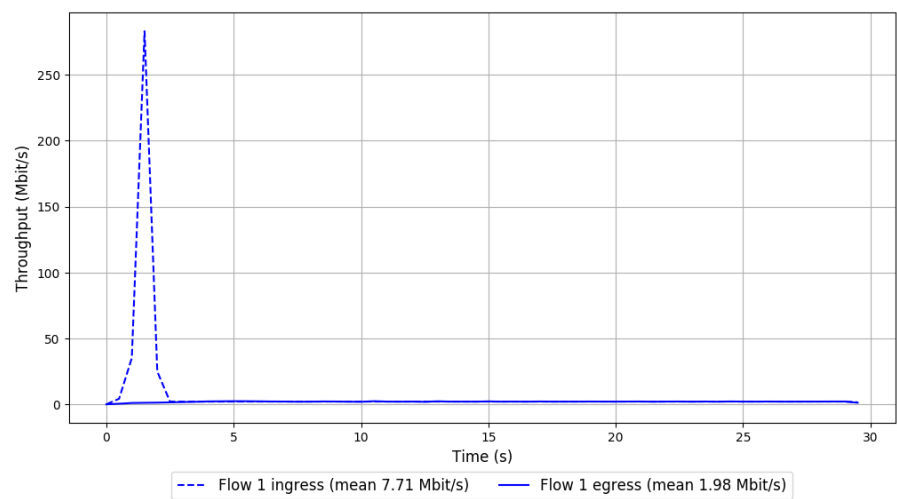
-- Flow 1:

Average throughput: 1.98 Mbit/s

95th percentile per-packet one-way delay: 473.159 ms

Loss rate: 74.59%

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: Thu, 13 Jul 2017 20:41:51 +0000

End at: Thu, 13 Jul 2017 20:42:21 +0000

Local clock offset: -1.548 ms

Remote clock offset: -0.327 ms

Below is generated by plot.py at Thu, 13 Jul 2017 21:16:24 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.56 Mbit/s

95th percentile per-packet one-way delay: 500.240 ms

Loss rate: 77.05%

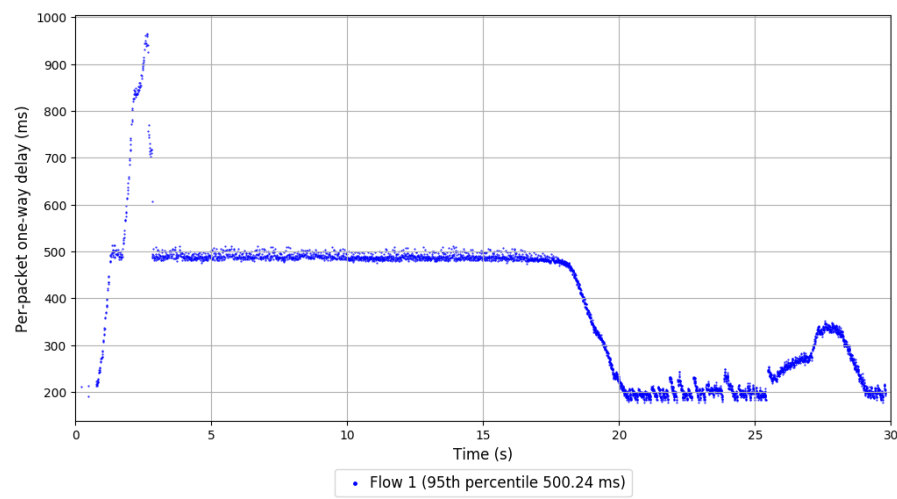
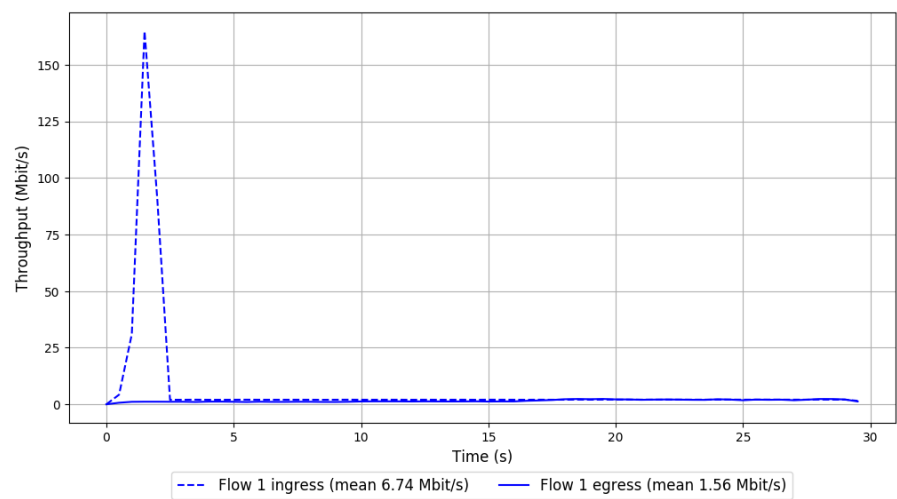
-- Flow 1:

Average throughput: 1.56 Mbit/s

95th percentile per-packet one-way delay: 500.240 ms

Loss rate: 77.05%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: Thu, 13 Jul 2017 20:59:19 +0000

End at: Thu, 13 Jul 2017 20:59:49 +0000

Local clock offset: -1.57 ms

Remote clock offset: -0.372 ms

Below is generated by plot.py at Thu, 13 Jul 2017 21:16:26 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.55 Mbit/s

95th percentile per-packet one-way delay: 492.652 ms

Loss rate: 53.01%

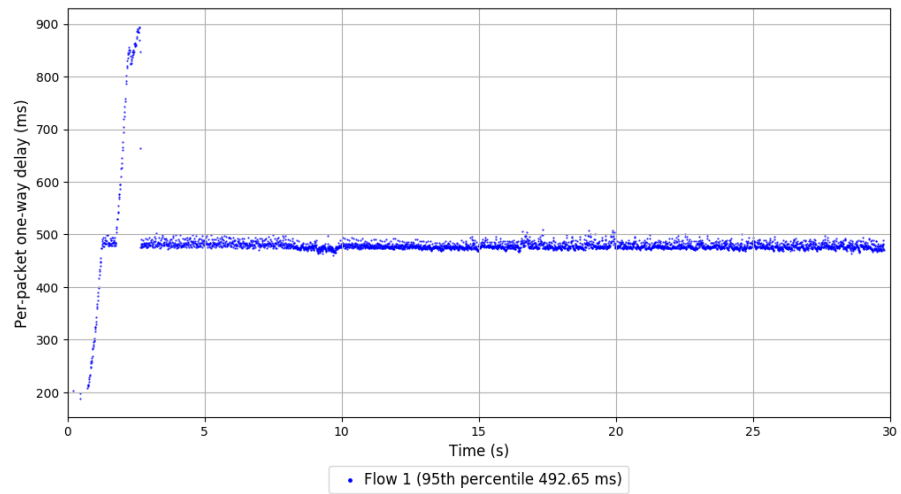
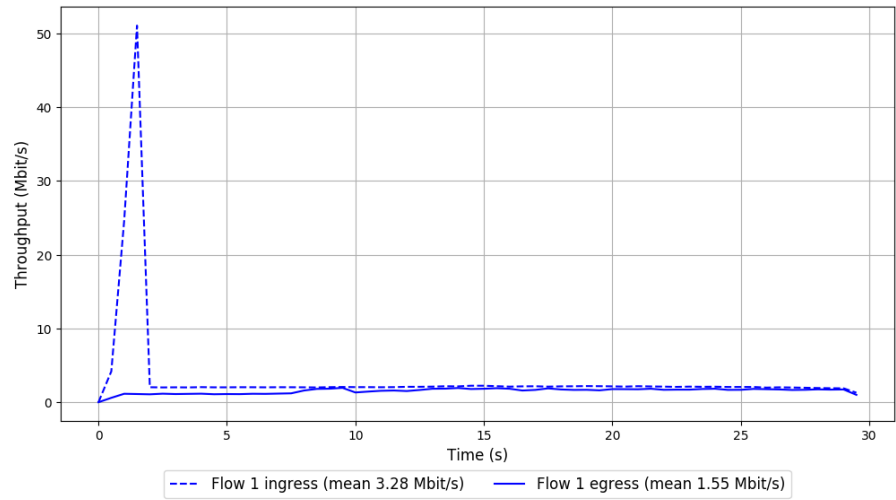
-- Flow 1:

Average throughput: 1.55 Mbit/s

95th percentile per-packet one-way delay: 492.652 ms

Loss rate: 53.01%

Run 3: Report of PCC — Data Link



Run 1: Statistics of QUIC Cubic

Start at: Thu, 13 Jul 2017 20:37:12 +0000

End at: Thu, 13 Jul 2017 20:37:42 +0000

Local clock offset: -1.526 ms

Remote clock offset: -0.368 ms

Below is generated by plot.py at Thu, 13 Jul 2017 21:16:26 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.27 Mbit/s

95th percentile per-packet one-way delay: 484.872 ms

Loss rate: 5.04%

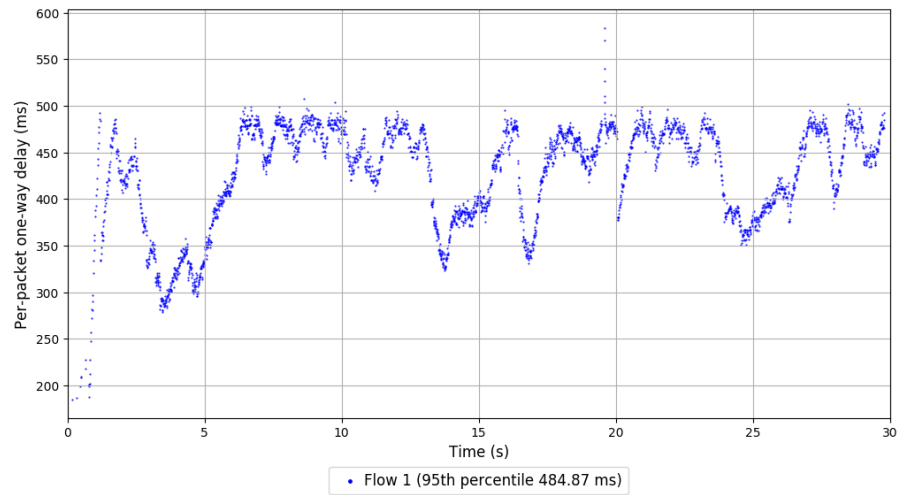
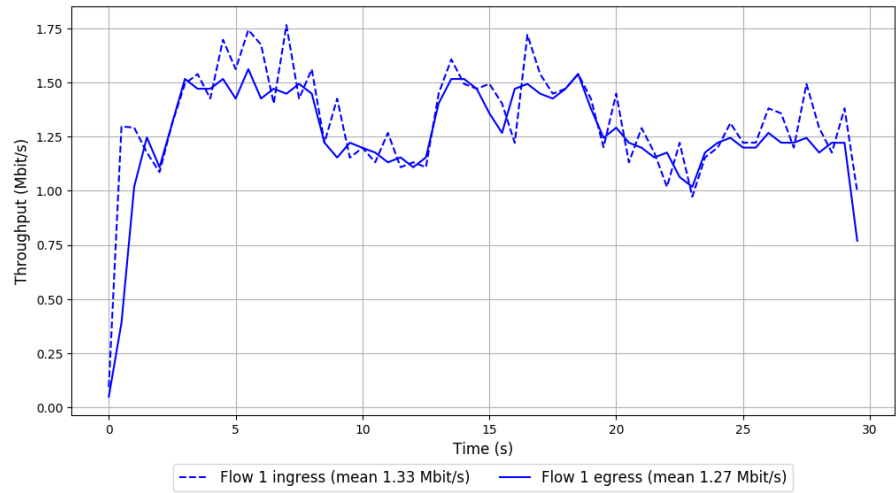
-- Flow 1:

Average throughput: 1.27 Mbit/s

95th percentile per-packet one-way delay: 484.872 ms

Loss rate: 5.04%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: Thu, 13 Jul 2017 20:54:40 +0000

End at: Thu, 13 Jul 2017 20:55:10 +0000

Local clock offset: -1.789 ms

Remote clock offset: -0.298 ms

Below is generated by plot.py at Thu, 13 Jul 2017 21:16:27 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.10 Mbit/s

95th percentile per-packet one-way delay: 475.009 ms

Loss rate: 2.89%

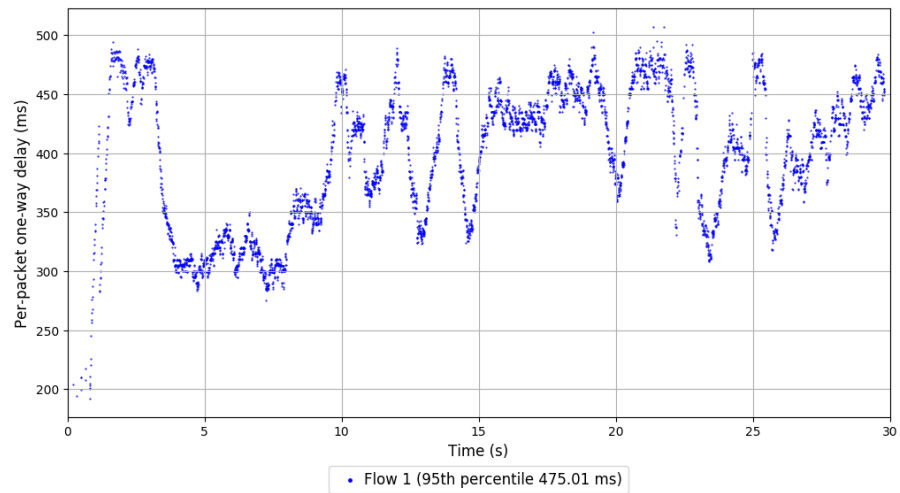
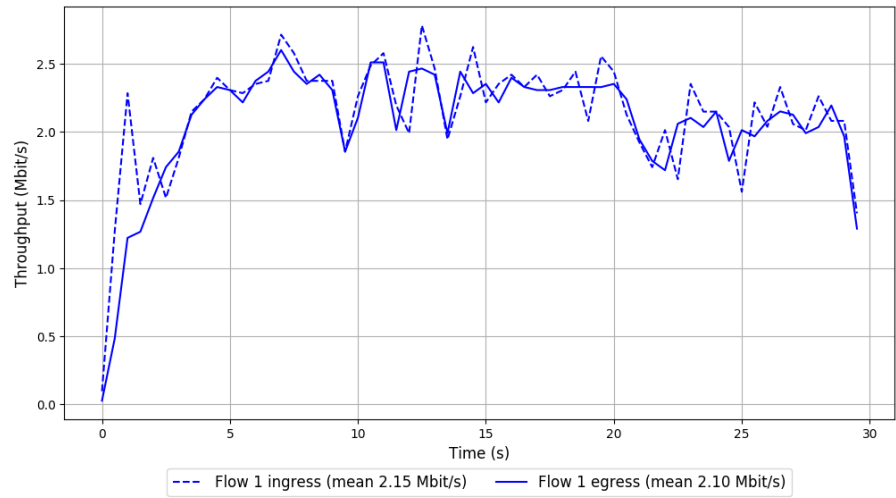
-- Flow 1:

Average throughput: 2.10 Mbit/s

95th percentile per-packet one-way delay: 475.009 ms

Loss rate: 2.89%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: Thu, 13 Jul 2017 21:12:11 +0000

End at: Thu, 13 Jul 2017 21:12:41 +0000

Local clock offset: -1.583 ms

Remote clock offset: 0.038 ms

Below is generated by plot.py at Thu, 13 Jul 2017 21:16:27 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: 471.825 ms

Loss rate: 3.04%

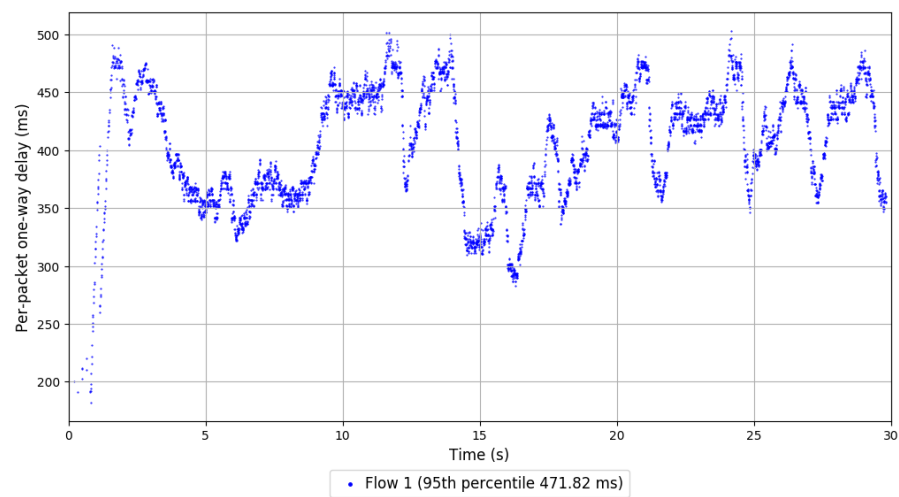
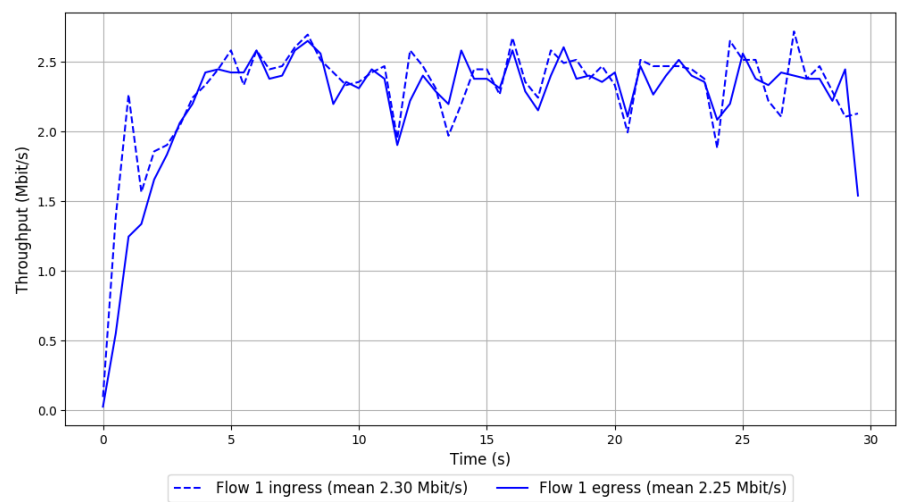
-- Flow 1:

Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: 471.825 ms

Loss rate: 3.04%

Run 3: Report of QUIC Cubic — Data Link



Run 1: Statistics of Saturator

Start at: Thu, 13 Jul 2017 20:38:22 +0000

End at: Thu, 13 Jul 2017 20:38:52 +0000

Local clock offset: -0.132 ms

Remote clock offset: -0.152 ms

Below is generated by plot.py at Thu, 13 Jul 2017 21:16:28 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.38 Mbit/s

95th percentile per-packet one-way delay: 494.730 ms

Loss rate: 49.66%

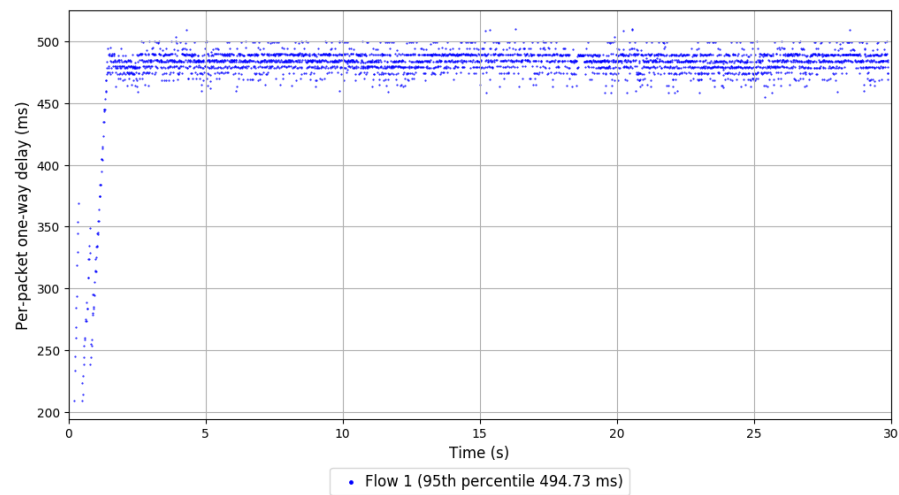
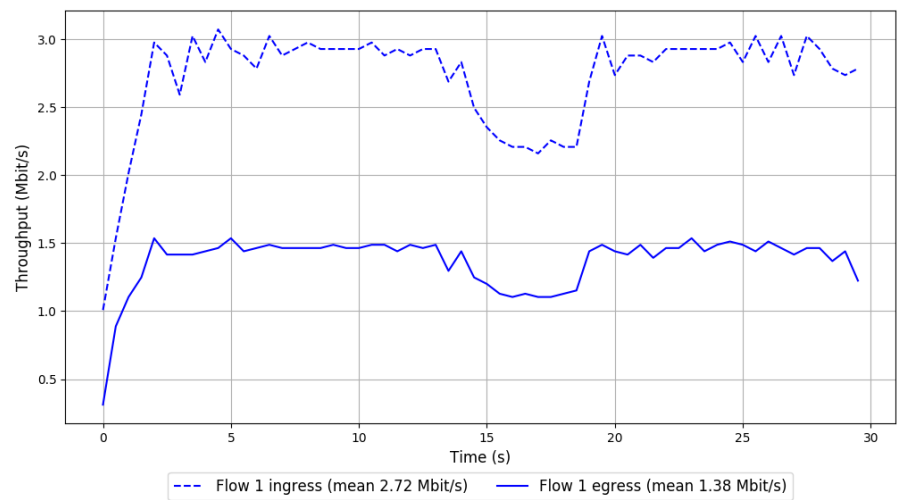
-- Flow 1:

Average throughput: 1.38 Mbit/s

95th percentile per-packet one-way delay: 494.730 ms

Loss rate: 49.66%

Run 1: Report of Saturator — Data Link



Run 2: Statistics of Saturator

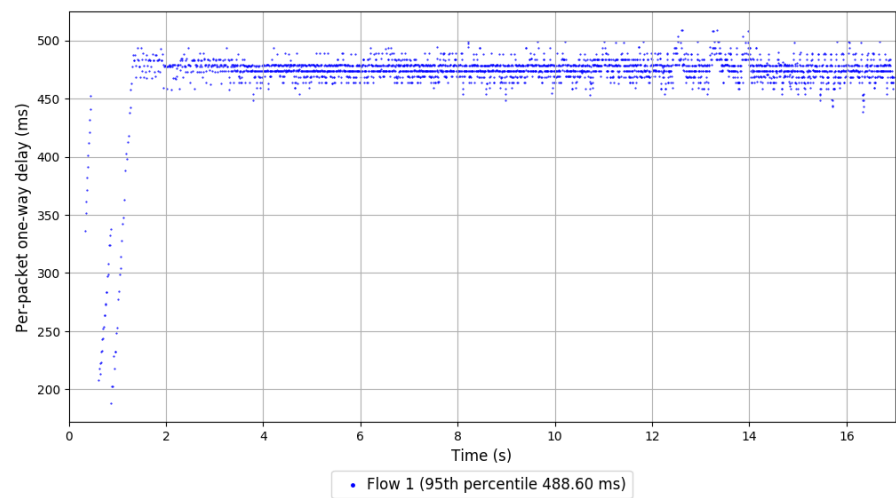
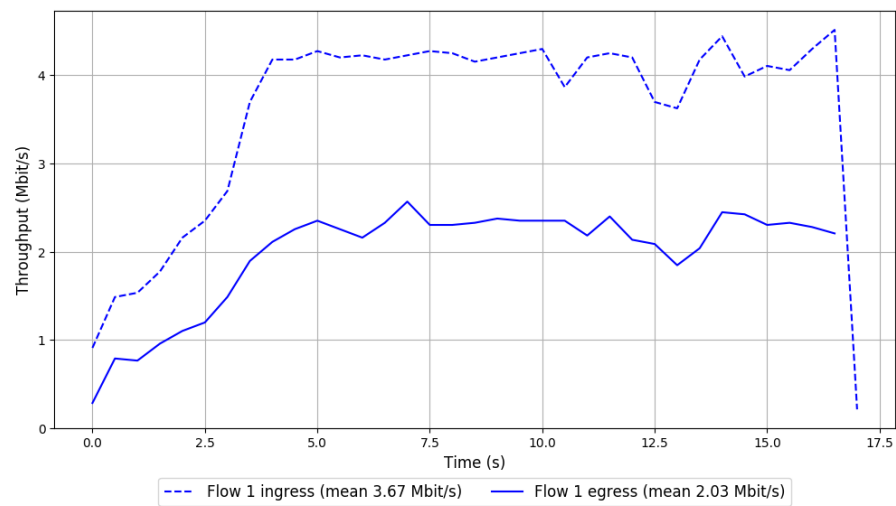
Start at: Thu, 13 Jul 2017 20:55:50 +0000

End at: Thu, 13 Jul 2017 20:56:20 +0000

Local clock offset: -0.143 ms

Remote clock offset: -0.29 ms

Run 2: Report of Saturator — Data Link



Run 3: Statistics of Saturator

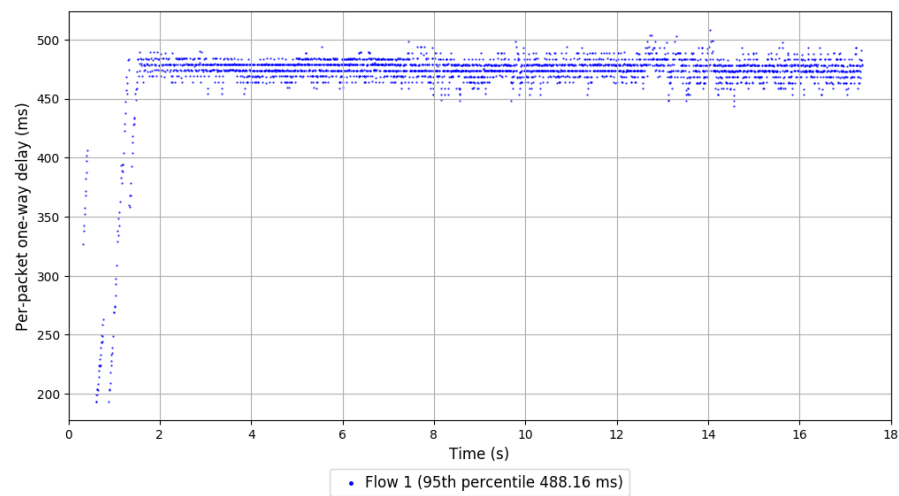
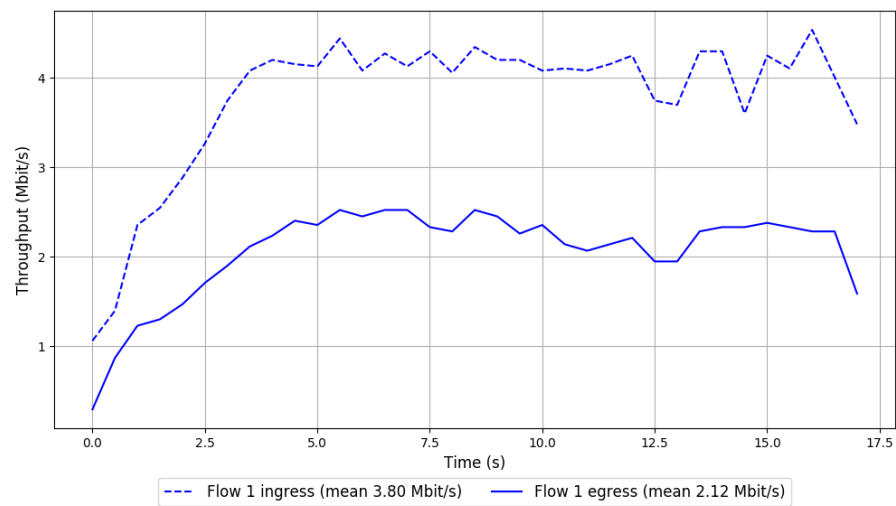
Start at: Thu, 13 Jul 2017 21:13:21 +0000

End at: Thu, 13 Jul 2017 21:13:51 +0000

Local clock offset: -1.378 ms

Remote clock offset: 0.068 ms

Run 3: Report of Saturator — Data Link



Run 1: Statistics of SCReAM

Start at: Thu, 13 Jul 2017 20:31:23 +0000

End at: Thu, 13 Jul 2017 20:31:53 +0000

Local clock offset: -2.254 ms

Remote clock offset: -0.386 ms

Below is generated by plot.py at Thu, 13 Jul 2017 21:16:30 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 228.114 ms

Loss rate: 0.88%

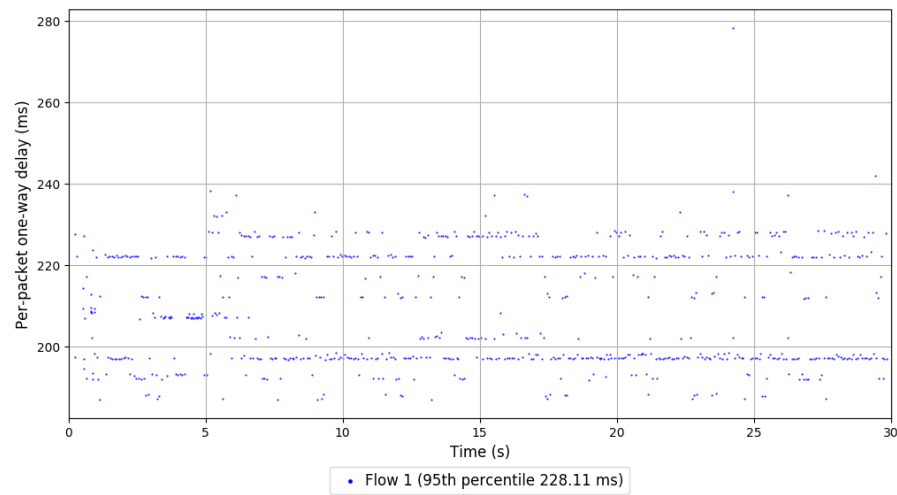
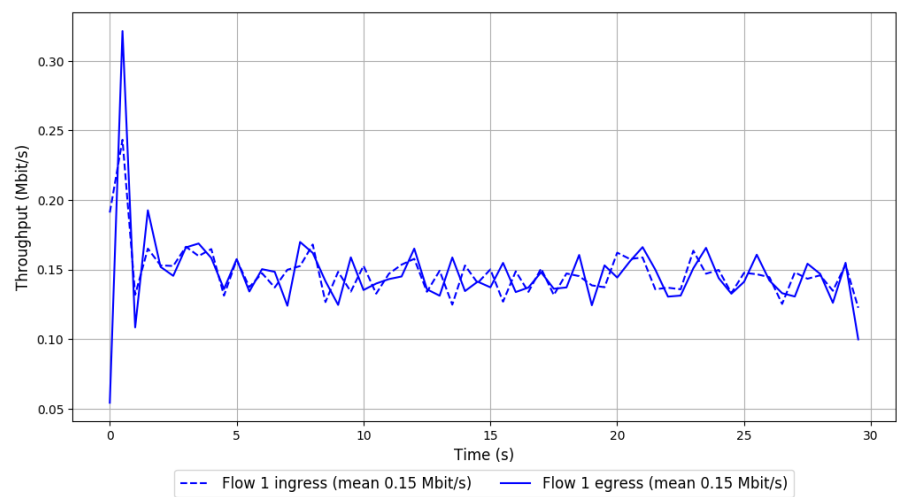
-- Flow 1:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 228.114 ms

Loss rate: 0.88%

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

Start at: Thu, 13 Jul 2017 20:48:51 +0000

End at: Thu, 13 Jul 2017 20:49:21 +0000

Local clock offset: -0.29 ms

Remote clock offset: -0.362 ms

Below is generated by plot.py at Thu, 13 Jul 2017 21:16:30 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.16 Mbit/s

95th percentile per-packet one-way delay: 223.344 ms

Loss rate: 0.72%

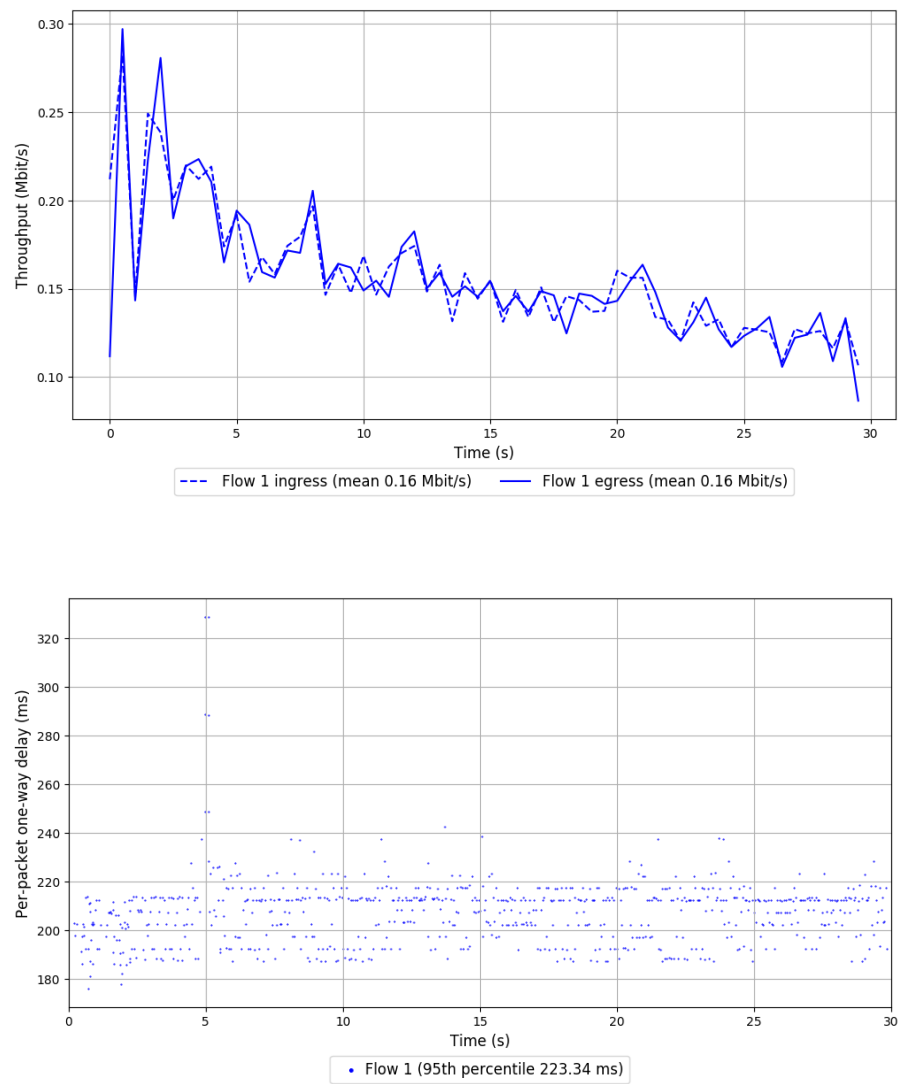
-- Flow 1:

Average throughput: 0.16 Mbit/s

95th percentile per-packet one-way delay: 223.344 ms

Loss rate: 0.72%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: Thu, 13 Jul 2017 21:06:20 +0000

End at: Thu, 13 Jul 2017 21:06:50 +0000

Local clock offset: -0.025 ms

Remote clock offset: 0.0 ms

Below is generated by plot.py at Thu, 13 Jul 2017 21:16:31 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.16 Mbit/s

95th percentile per-packet one-way delay: 211.137 ms

Loss rate: 0.70%

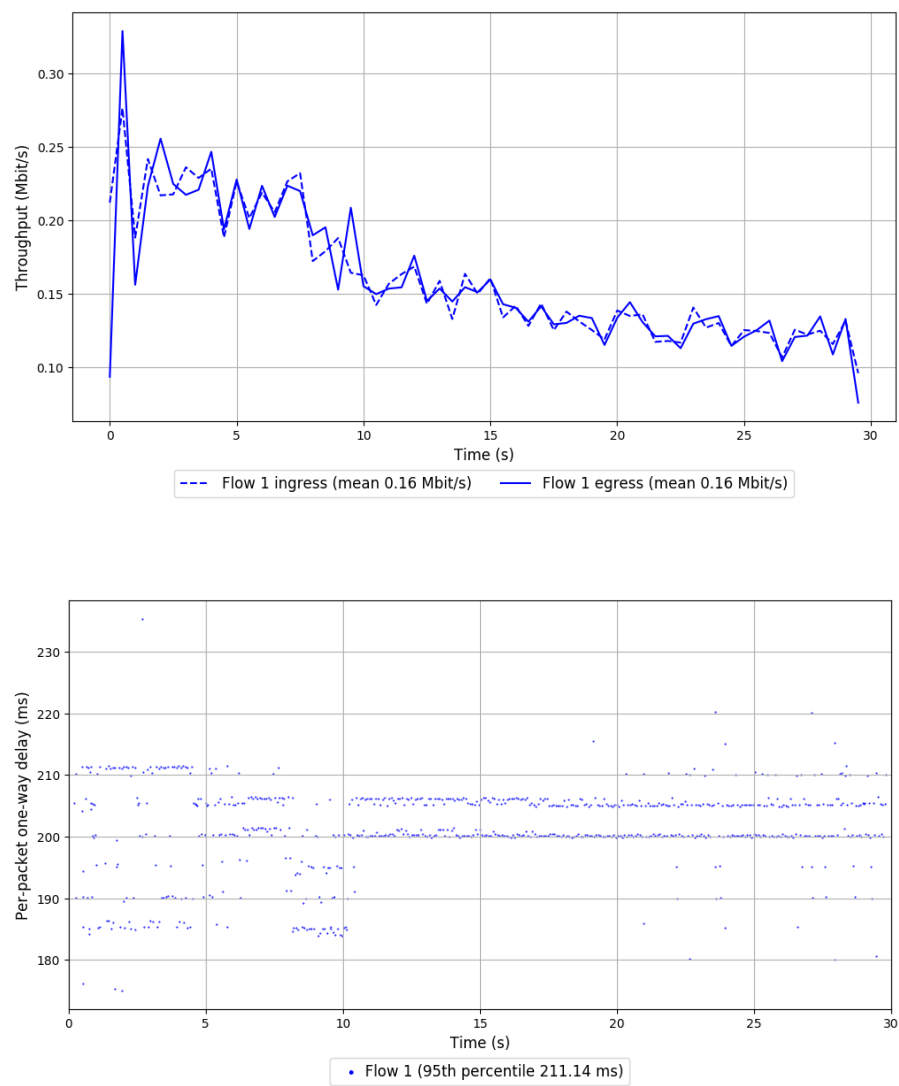
-- Flow 1:

Average throughput: 0.16 Mbit/s

95th percentile per-packet one-way delay: 211.137 ms

Loss rate: 0.70%

Run 3: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: Thu, 13 Jul 2017 20:23:14 +0000

End at: Thu, 13 Jul 2017 20:23:44 +0000

Local clock offset: -0.03 ms

Remote clock offset: -0.385 ms

Below is generated by plot.py at Thu, 13 Jul 2017 21:16:31 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 225.070 ms

Loss rate: 0.29%

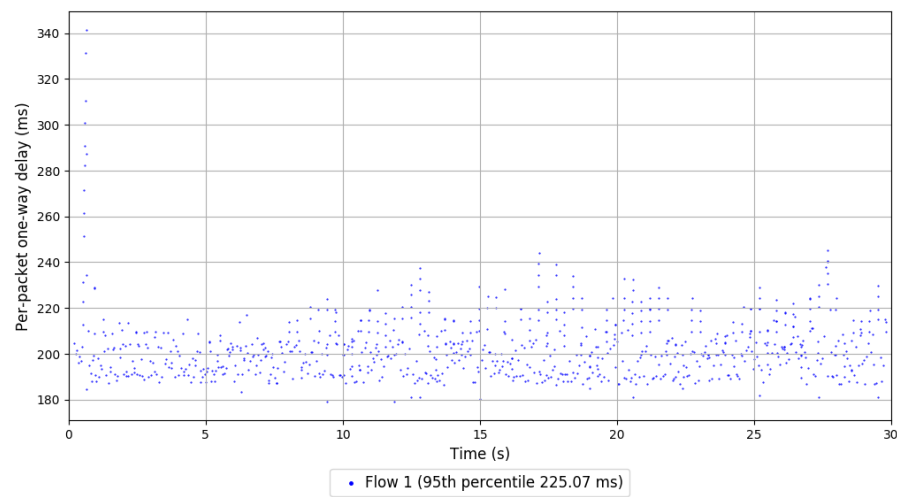
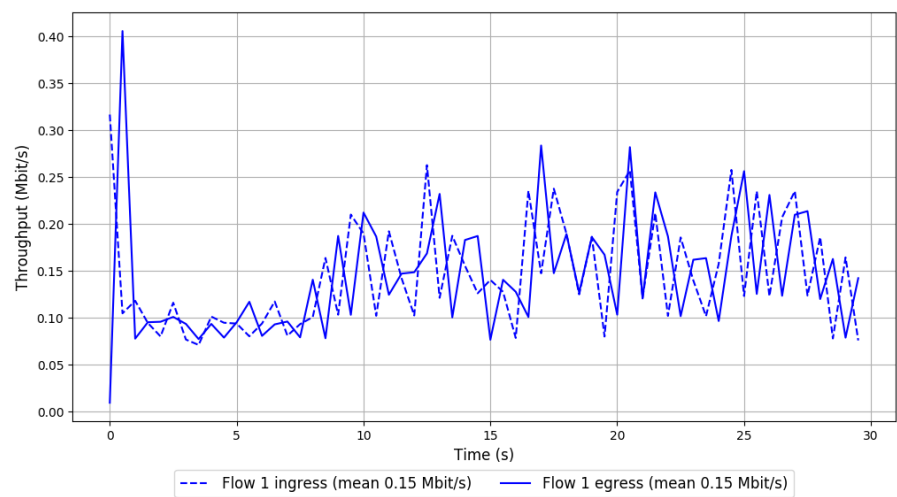
-- Flow 1:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 225.070 ms

Loss rate: 0.29%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: Thu, 13 Jul 2017 20:40:42 +0000

End at: Thu, 13 Jul 2017 20:41:12 +0000

Local clock offset: -0.311 ms

Remote clock offset: -0.285 ms

Below is generated by plot.py at Thu, 13 Jul 2017 21:16:32 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.12 Mbit/s

95th percentile per-packet one-way delay: 228.448 ms

Loss rate: 0.64%

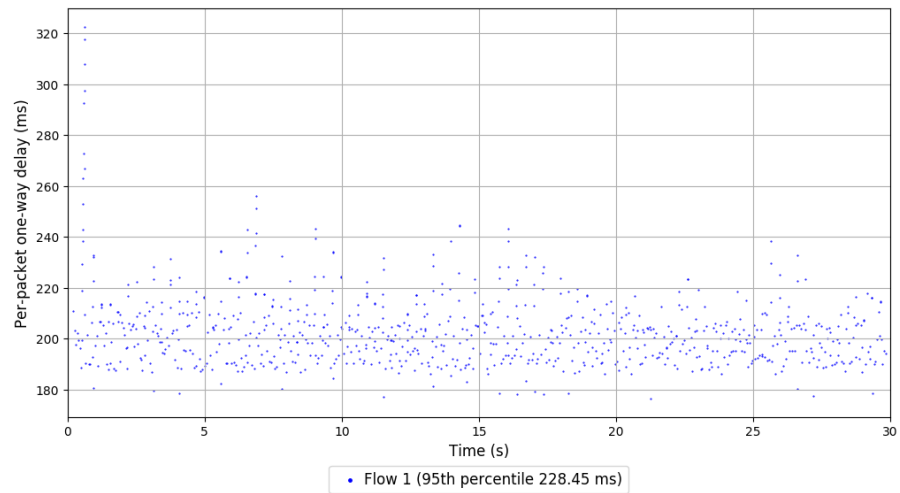
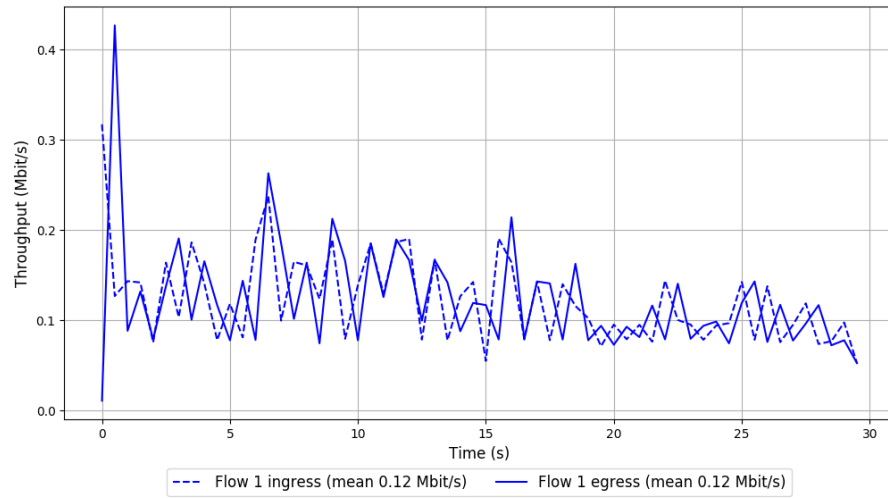
-- Flow 1:

Average throughput: 0.12 Mbit/s

95th percentile per-packet one-way delay: 228.448 ms

Loss rate: 0.64%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: Thu, 13 Jul 2017 20:58:10 +0000

End at: Thu, 13 Jul 2017 20:58:40 +0000

Local clock offset: -0.15 ms

Remote clock offset: -0.294 ms

Below is generated by plot.py at Thu, 13 Jul 2017 21:16:33 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 230.379 ms

Loss rate: 0.98%

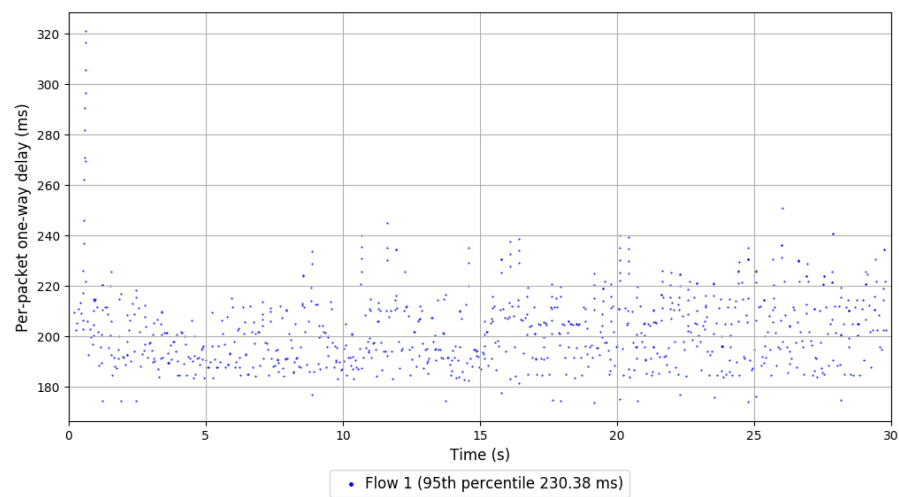
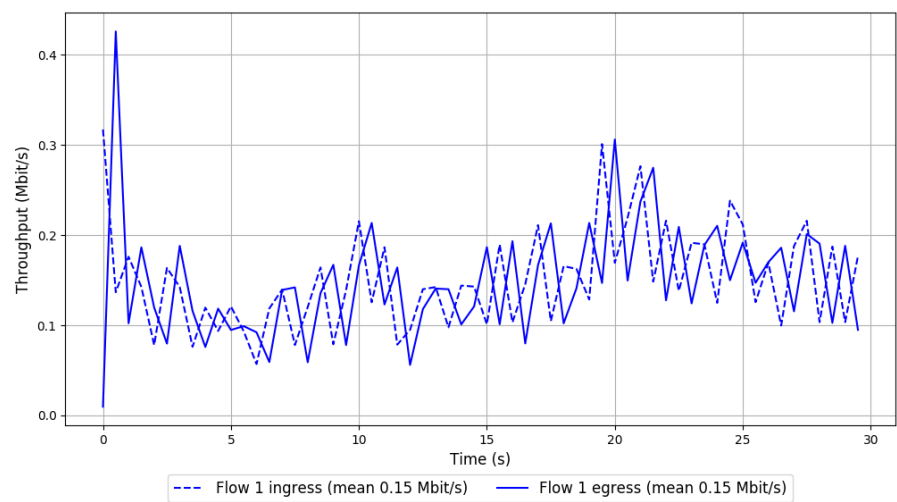
-- Flow 1:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 230.379 ms

Loss rate: 0.98%

Run 3: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

Start at: Thu, 13 Jul 2017 20:30:13 +0000

End at: Thu, 13 Jul 2017 20:30:43 +0000

Local clock offset: -1.392 ms

Remote clock offset: -0.387 ms

Below is generated by plot.py at Thu, 13 Jul 2017 21:16:33 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.96 Mbit/s

95th percentile per-packet one-way delay: 309.156 ms

Loss rate: 2.54%

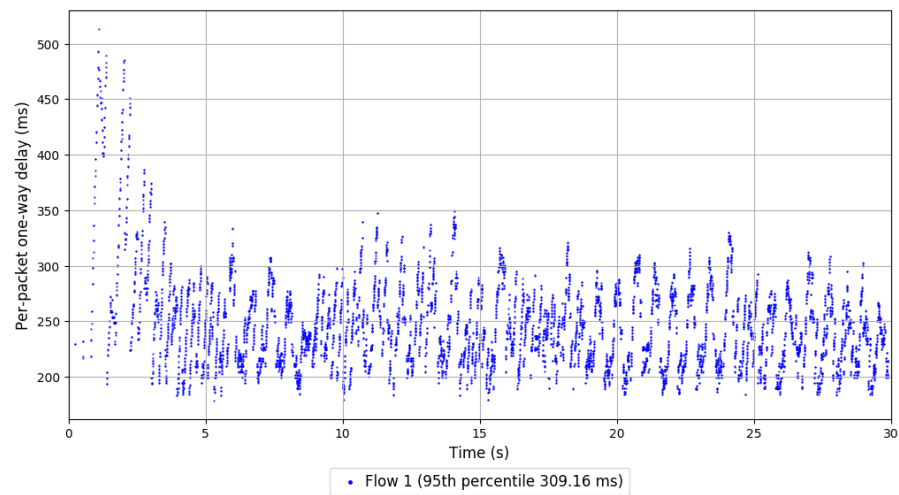
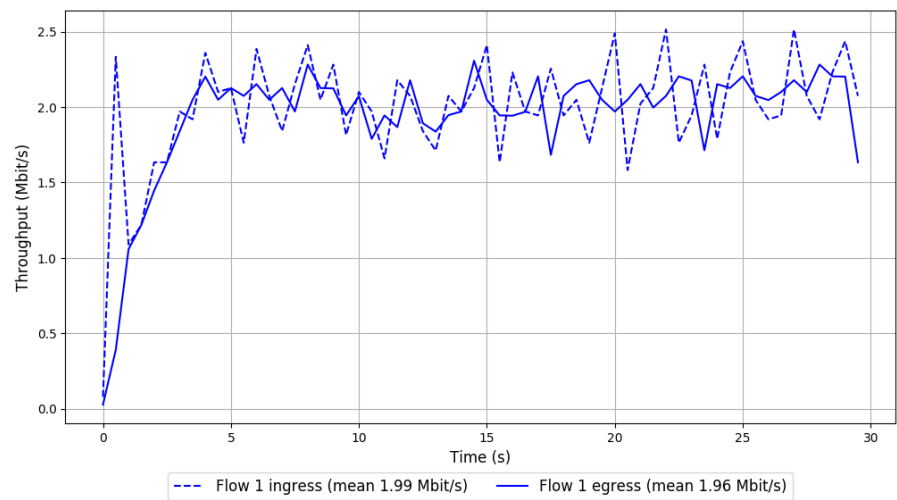
-- Flow 1:

Average throughput: 1.96 Mbit/s

95th percentile per-packet one-way delay: 309.156 ms

Loss rate: 2.54%

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



Run 2: Statistics of TaoVA-100x

Start at: Thu, 13 Jul 2017 20:47:41 +0000

End at: Thu, 13 Jul 2017 20:48:11 +0000

Local clock offset: -1.571 ms

Remote clock offset: -0.273 ms

Below is generated by plot.py at Thu, 13 Jul 2017 21:16:34 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.98 Mbit/s

95th percentile per-packet one-way delay: 319.612 ms

Loss rate: 2.40%

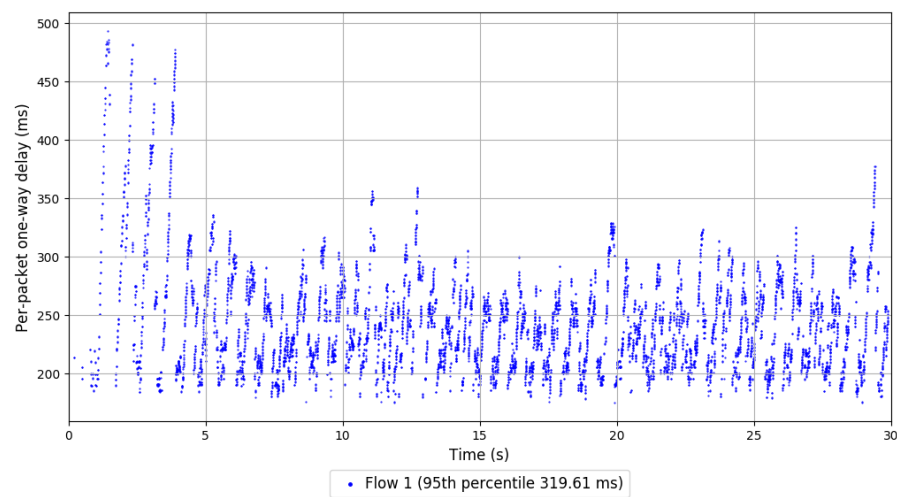
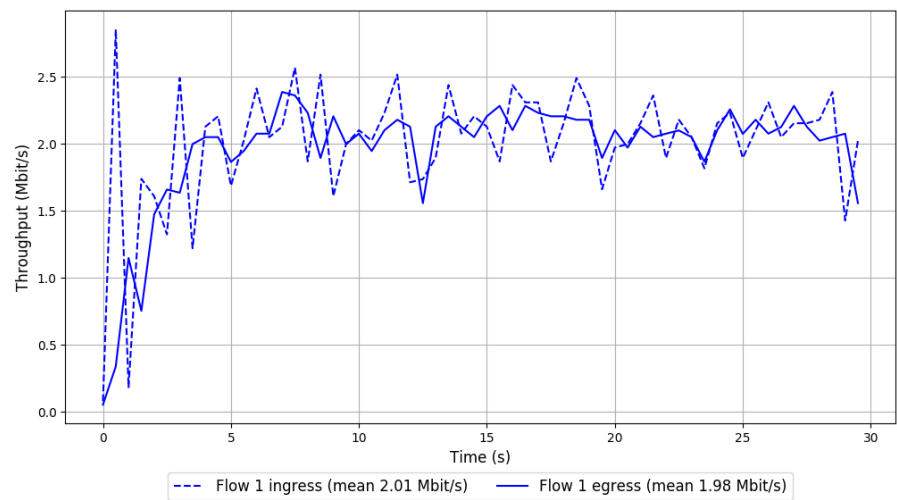
-- Flow 1:

Average throughput: 1.98 Mbit/s

95th percentile per-packet one-way delay: 319.612 ms

Loss rate: 2.40%

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



Run 3: Statistics of TaoVA-100x

Start at: Thu, 13 Jul 2017 21:05:10 +0000

End at: Thu, 13 Jul 2017 21:05:40 +0000

Local clock offset: -1.478 ms

Remote clock offset: 0.008 ms

Below is generated by plot.py at Thu, 13 Jul 2017 21:16:34 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.63 Mbit/s

95th percentile per-packet one-way delay: 396.473 ms

Loss rate: 3.07%

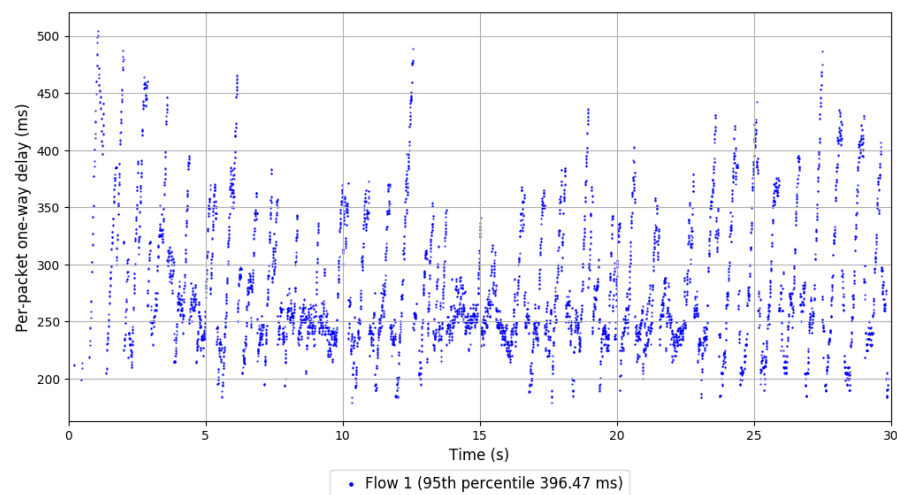
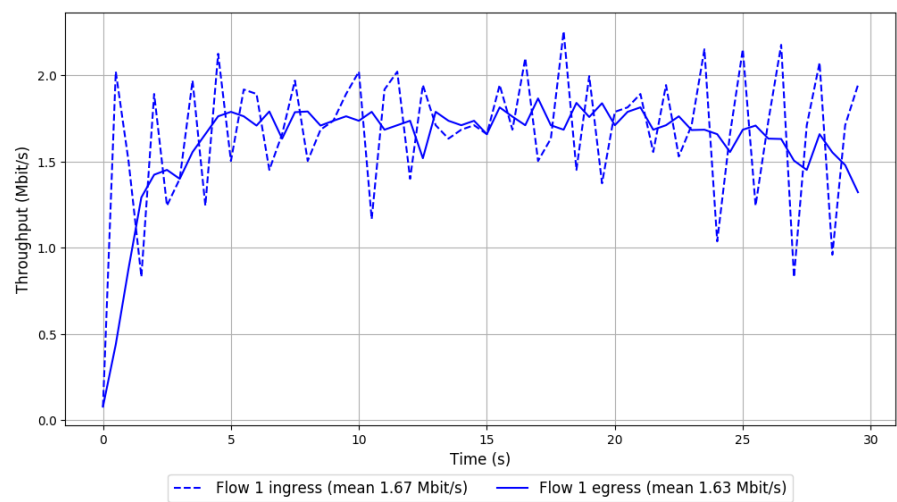
-- Flow 1:

Average throughput: 1.63 Mbit/s

95th percentile per-packet one-way delay: 396.473 ms

Loss rate: 3.07%

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



Run 1: Statistics of TCP Vegas

Start at: Thu, 13 Jul 2017 20:39:32 +0000

End at: Thu, 13 Jul 2017 20:40:02 +0000

Local clock offset: -2.834 ms

Remote clock offset: -0.314 ms

Below is generated by plot.py at Thu, 13 Jul 2017 21:16:36 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.13 Mbit/s

95th percentile per-packet one-way delay: 336.626 ms

Loss rate: 2.06%

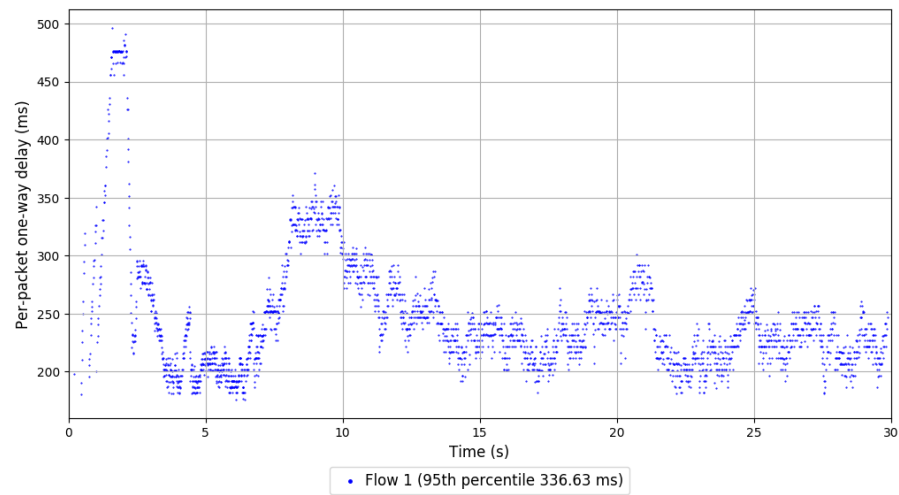
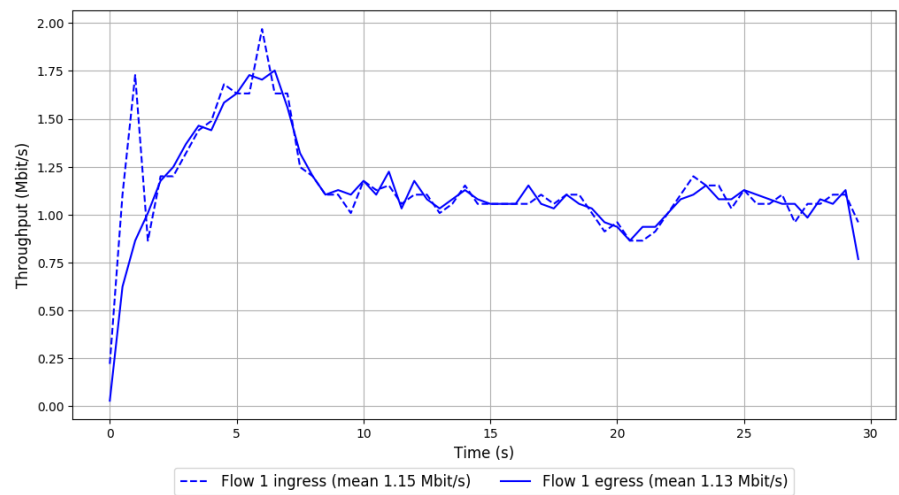
-- Flow 1:

Average throughput: 1.13 Mbit/s

95th percentile per-packet one-way delay: 336.626 ms

Loss rate: 2.06%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: Thu, 13 Jul 2017 20:57:00 +0000

End at: Thu, 13 Jul 2017 20:57:30 +0000

Local clock offset: -0.239 ms

Remote clock offset: -0.363 ms

Below is generated by plot.py at Thu, 13 Jul 2017 21:16:36 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.94 Mbit/s

95th percentile per-packet one-way delay: 338.022 ms

Loss rate: 1.42%

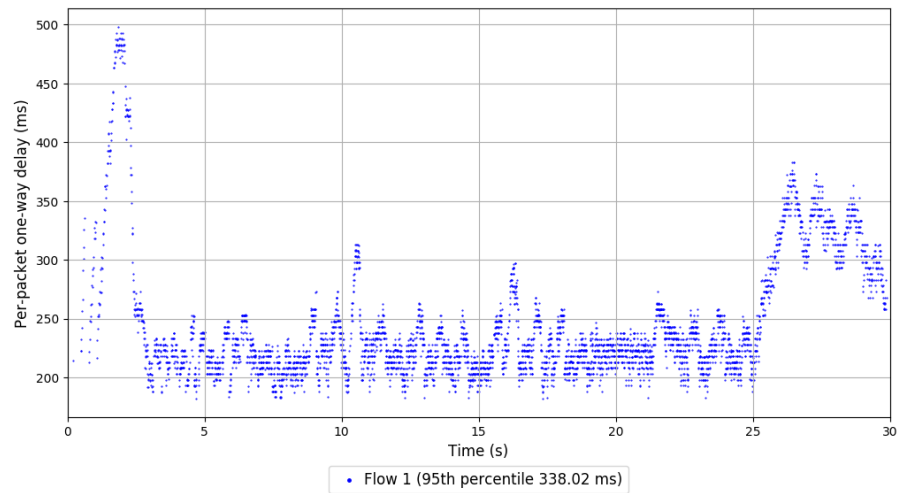
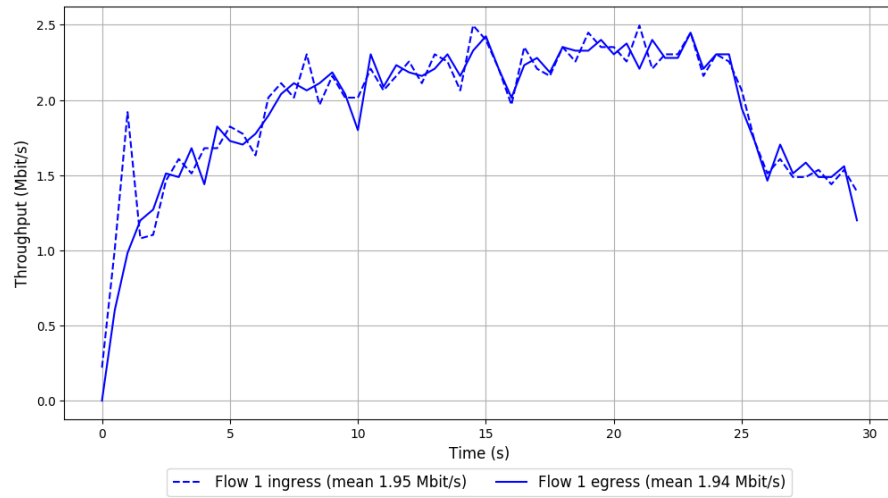
-- Flow 1:

Average throughput: 1.94 Mbit/s

95th percentile per-packet one-way delay: 338.022 ms

Loss rate: 1.42%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: Thu, 13 Jul 2017 21:14:31 +0000

End at: Thu, 13 Jul 2017 21:15:01 +0000

Local clock offset: -1.348 ms

Remote clock offset: -2.498 ms

Below is generated by plot.py at Thu, 13 Jul 2017 21:16:37 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.06 Mbit/s

95th percentile per-packet one-way delay: 265.782 ms

Loss rate: 1.55%

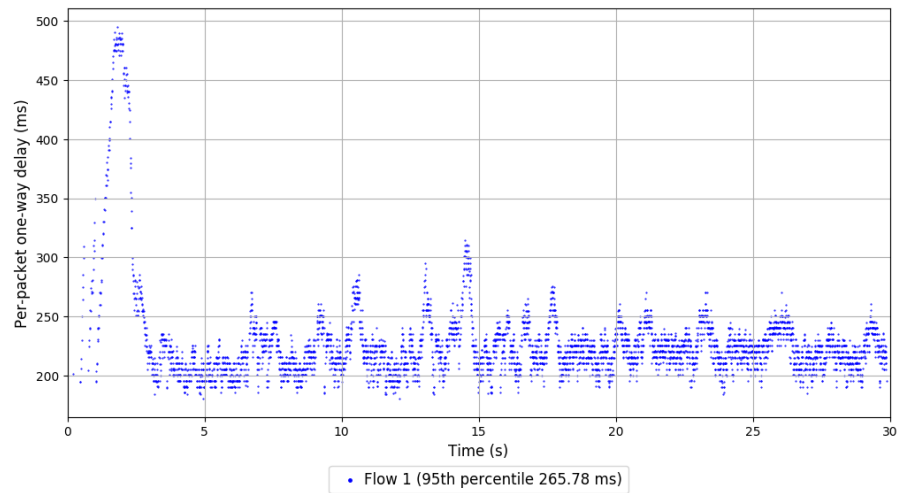
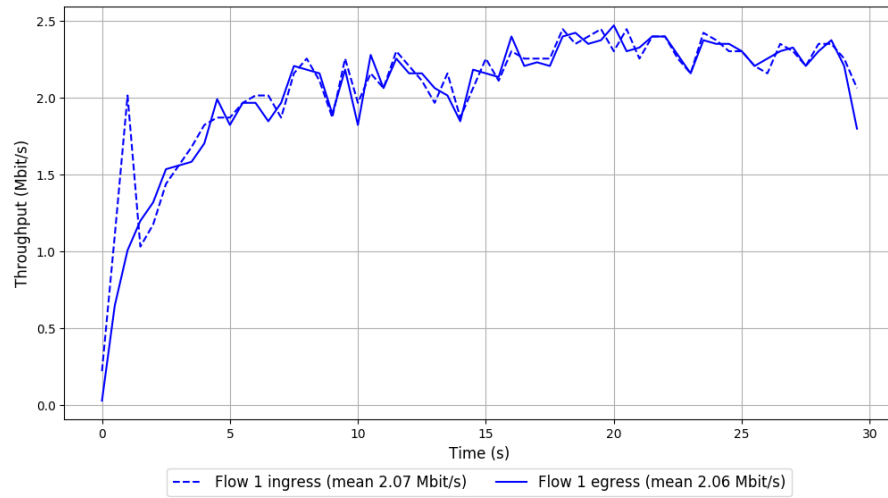
-- Flow 1:

Average throughput: 2.06 Mbit/s

95th percentile per-packet one-way delay: 265.782 ms

Loss rate: 1.55%

Run 3: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: Thu, 13 Jul 2017 20:33:43 +0000

End at: Thu, 13 Jul 2017 20:34:13 +0000

Local clock offset: -1.506 ms

Remote clock offset: -0.33 ms

Below is generated by plot.py at Thu, 13 Jul 2017 21:16:37 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.05 Mbit/s

95th percentile per-packet one-way delay: 484.460 ms

Loss rate: 12.94%

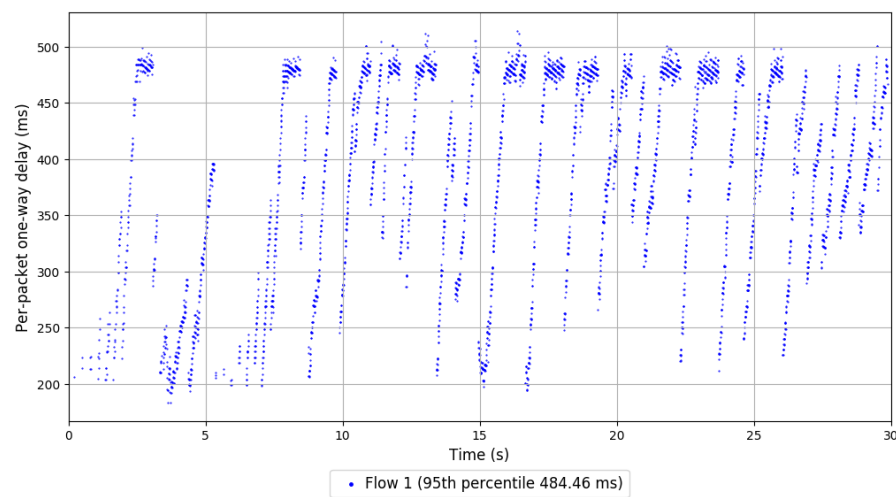
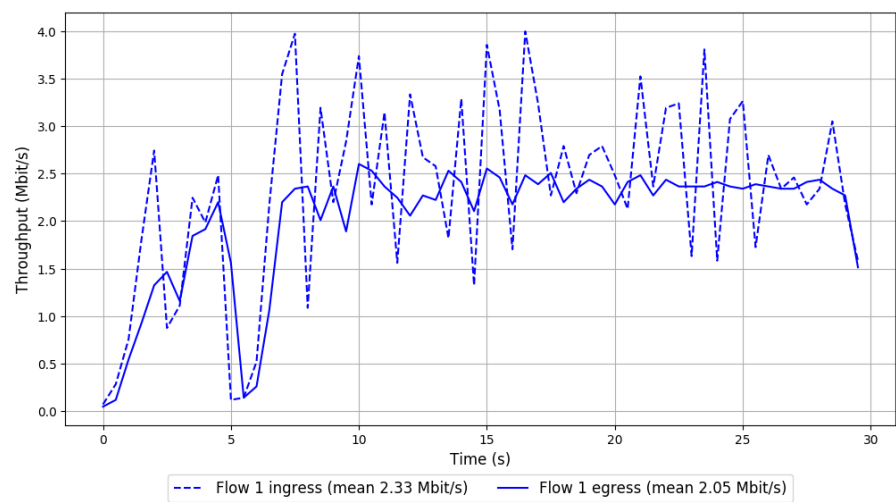
-- Flow 1:

Average throughput: 2.05 Mbit/s

95th percentile per-packet one-way delay: 484.460 ms

Loss rate: 12.94%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: Thu, 13 Jul 2017 20:51:10 +0000

End at: Thu, 13 Jul 2017 20:51:40 +0000

Local clock offset: -1.6 ms

Remote clock offset: -0.31 ms

Below is generated by plot.py at Thu, 13 Jul 2017 21:16:38 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.92 Mbit/s

95th percentile per-packet one-way delay: 481.986 ms

Loss rate: 54.36%

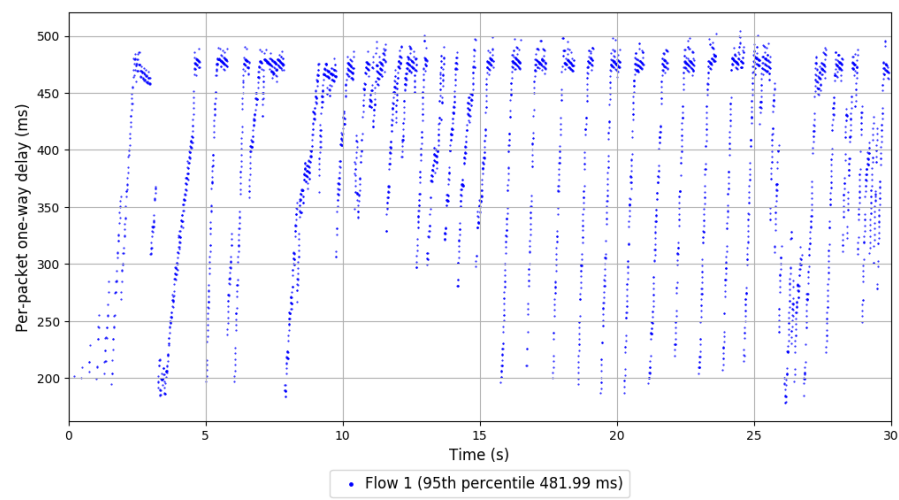
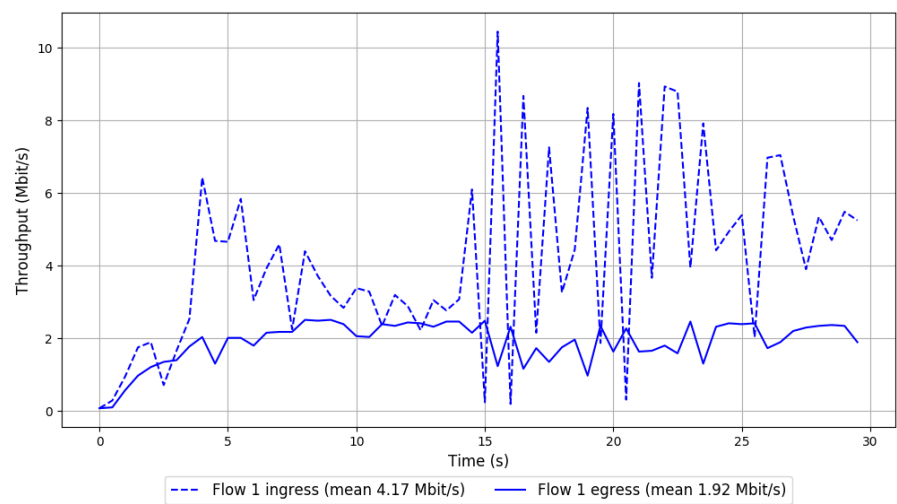
-- Flow 1:

Average throughput: 1.92 Mbit/s

95th percentile per-packet one-way delay: 481.986 ms

Loss rate: 54.36%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: Thu, 13 Jul 2017 21:08:40 +0000

End at: Thu, 13 Jul 2017 21:09:10 +0000

Local clock offset: -1.453 ms

Remote clock offset: -0.104 ms

Below is generated by plot.py at Thu, 13 Jul 2017 21:16:38 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.83 Mbit/s

95th percentile per-packet one-way delay: 479.085 ms

Loss rate: 19.39%

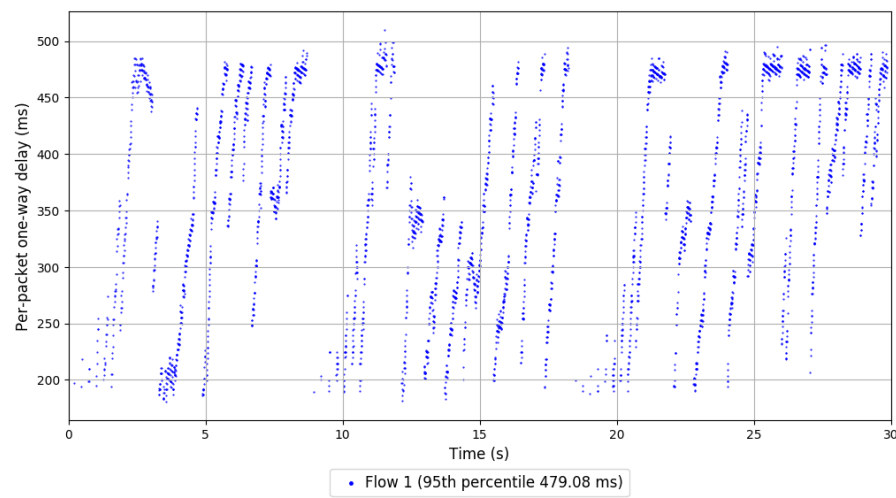
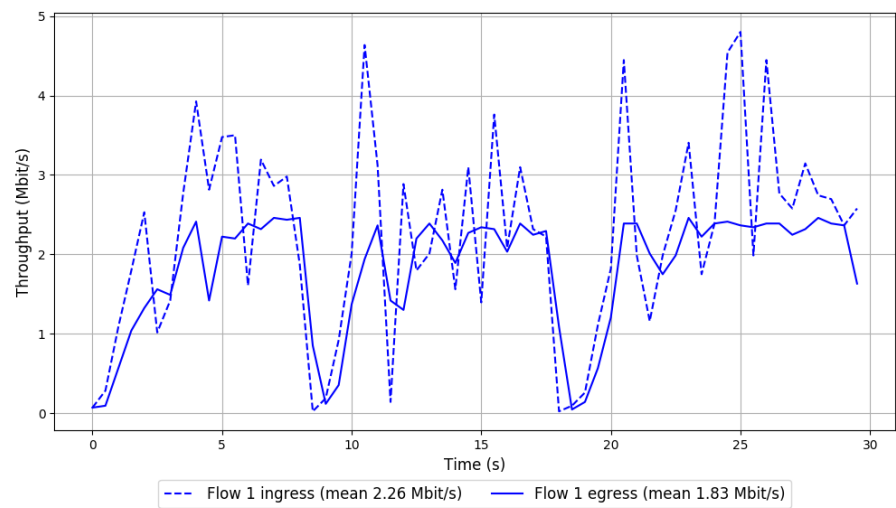
-- Flow 1:

Average throughput: 1.83 Mbit/s

95th percentile per-packet one-way delay: 479.085 ms

Loss rate: 19.39%

Run 3: Report of Verus — Data Link



Run 1: Statistics of WebRTC media

Start at: Thu, 13 Jul 2017 20:29:04 +0000

End at: Thu, 13 Jul 2017 20:29:34 +0000

Local clock offset: -0.029 ms

Remote clock offset: -0.312 ms

Below is generated by plot.py at Thu, 13 Jul 2017 21:16:39 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.72 Mbit/s

95th percentile per-packet one-way delay: 276.899 ms

Loss rate: 1.97%

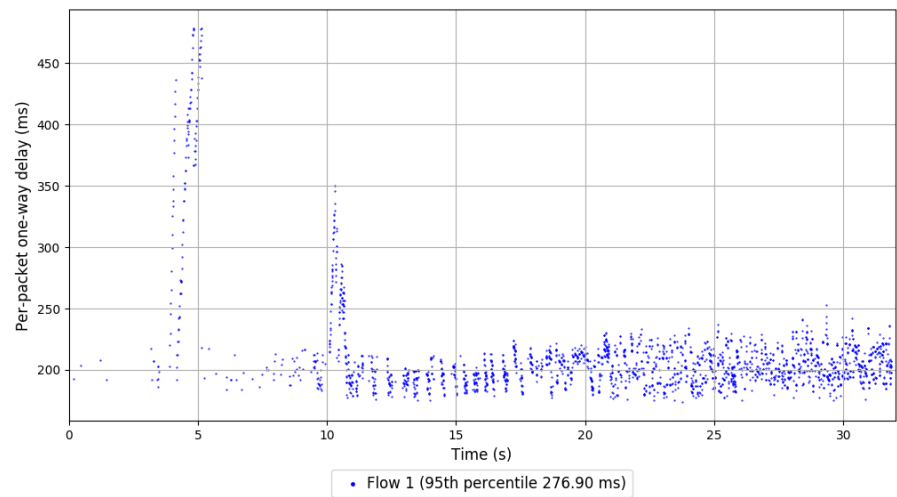
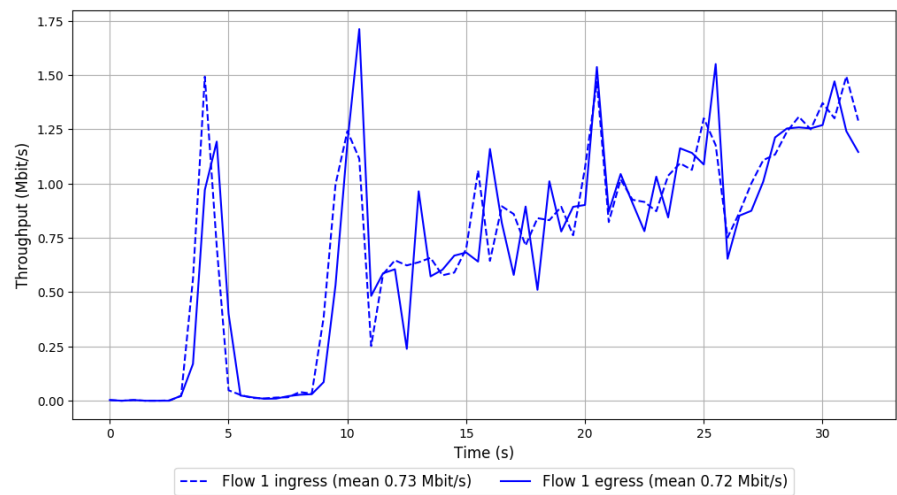
-- Flow 1:

Average throughput: 0.72 Mbit/s

95th percentile per-packet one-way delay: 276.899 ms

Loss rate: 1.97%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: Thu, 13 Jul 2017 20:46:31 +0000

End at: Thu, 13 Jul 2017 20:47:01 +0000

Local clock offset: -1.604 ms

Remote clock offset: -0.274 ms

Below is generated by plot.py at Thu, 13 Jul 2017 21:16:40 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.83 Mbit/s

95th percentile per-packet one-way delay: 250.908 ms

Loss rate: 1.15%

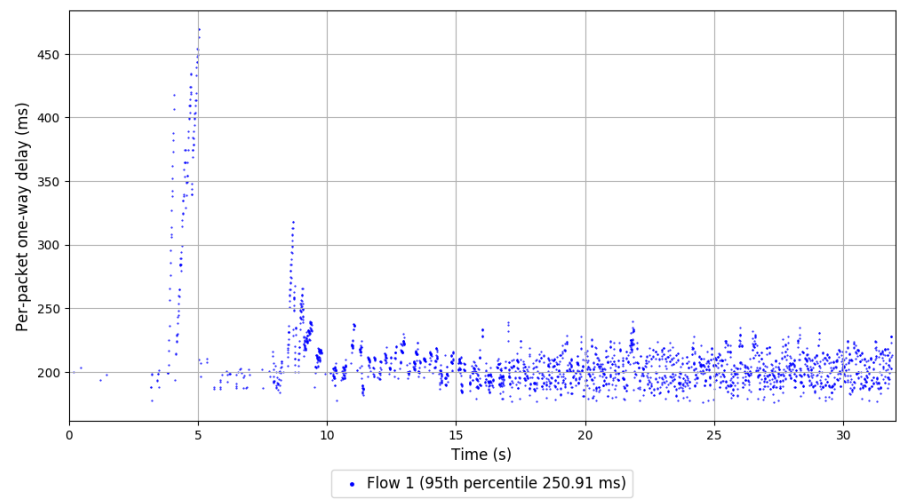
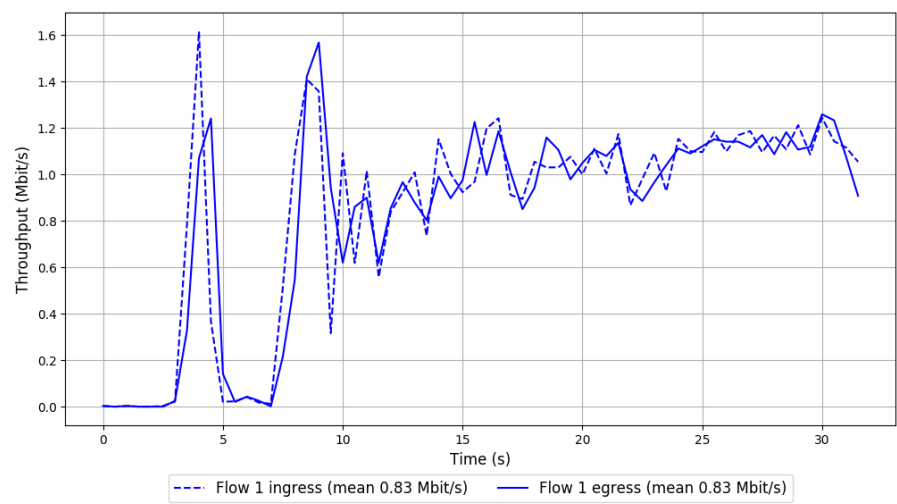
-- Flow 1:

Average throughput: 0.83 Mbit/s

95th percentile per-packet one-way delay: 250.908 ms

Loss rate: 1.15%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: Thu, 13 Jul 2017 21:04:00 +0000

End at: Thu, 13 Jul 2017 21:04:30 +0000

Local clock offset: 0.012 ms

Remote clock offset: 0.027 ms

Run 3: Report of WebRTC media — Data Link

