

Pantheon Report

Generated at 2017-08-21 23:39:17 (UTC).

Data path: AWS India 2 Ethernet (*local*) → Nepal Ethernet (*remote*).

Repeated the test of 14 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

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

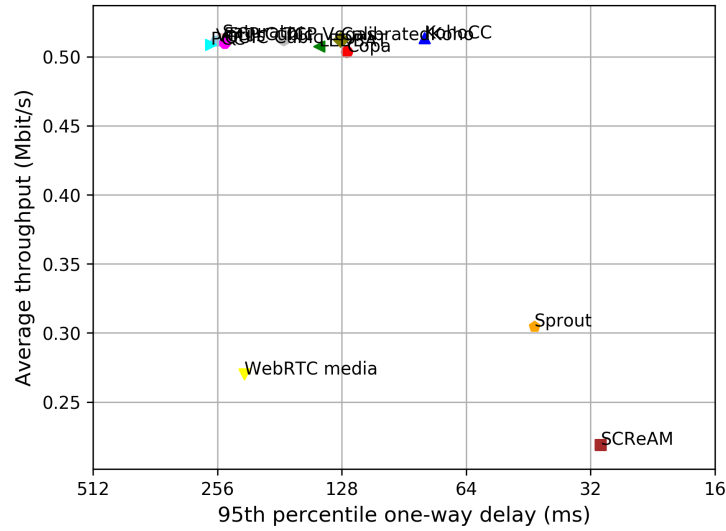
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo_fast**).

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

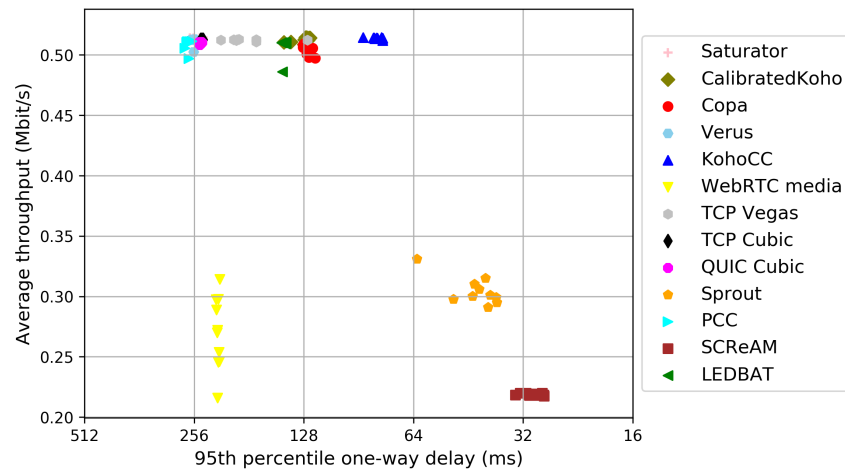
Git summary:

```
branch: master @ e43be7582298d552838afcf6382342bf187fbbd6
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-quick @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaaeb30b267cde681
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 2 Ethernet to Nepal Ethernet, 10 runs of 30s each per scheme
(mean of all runs by scheme)



test from AWS India 2 Ethernet to Nepal Ethernet, 10 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
CalibratedKoho	10	0.51	128.70	0.31
Copa	10	0.51	124.48	0.79
TCP Cubic	4	0.51	243.90	2.70
KohoCC	10	0.51	80.73	0.32
LEDBAT	10	0.51	145.31	0.02
PCC	10	0.51	265.39	78.51
QUIC Cubic	10	0.51	245.99	15.09
Saturator	10	0.51	249.21	49.88
SCReAM	10	0.22	30.30	0.03
Sprout	10	0.31	43.81	0.18
TaoVA-100x	0	N/A	N/A	N/A
TCP Vegas	10	0.51	176.89	1.01
Verus	10	0.51	258.23	20.21
WebRTC media	10	0.27	220.36	15.61

Run 1: Statistics of CalibratedKoho

Start at: 2017-08-21 20:43:18

End at: 2017-08-21 20:43:48

Local clock offset: 2.566 ms

Remote clock offset: 7.159 ms

Below is generated by plot.py at 2017-08-21 23:37:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 123.797 ms

Loss rate: 0.31%

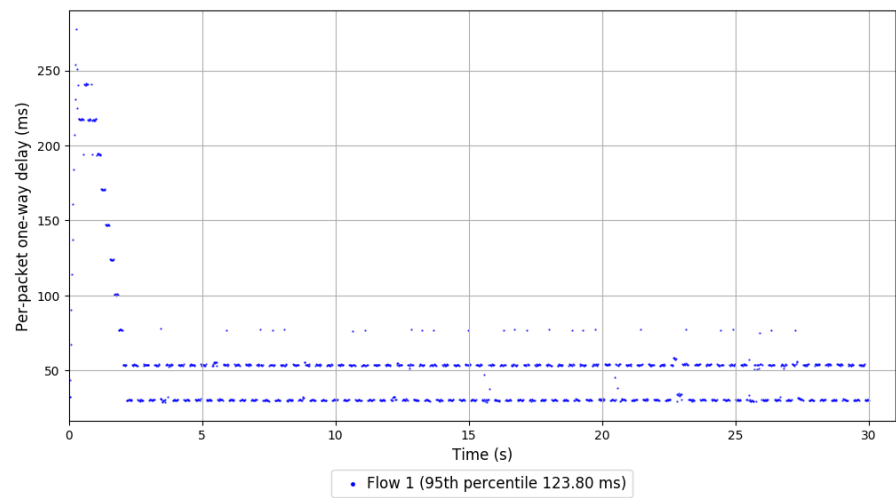
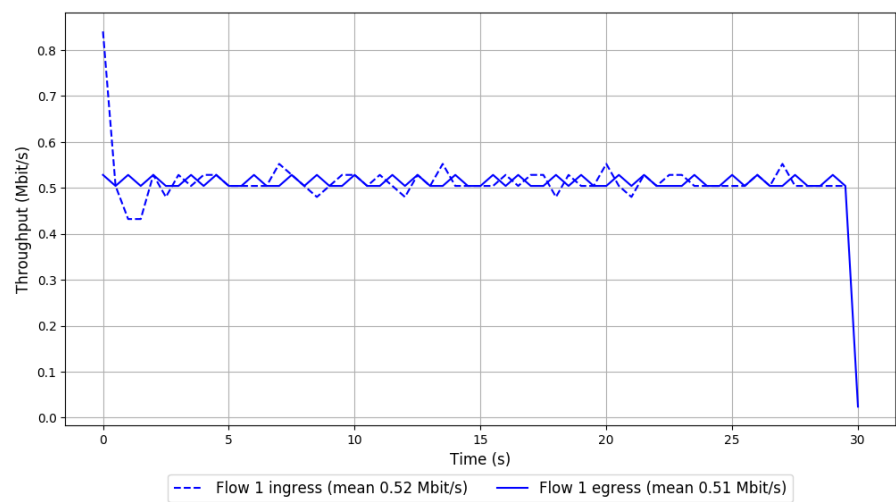
-- Flow 1:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 123.797 ms

Loss rate: 0.31%

Run 1: Report of CalibratedKoho — Data Link



Run 2: Statistics of CalibratedKoho

Start at: 2017-08-21 21:00:41

End at: 2017-08-21 21:01:11

Local clock offset: -1.007 ms

Remote clock offset: 6.478 ms

Below is generated by plot.py at 2017-08-21 23:37:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 127.507 ms

Loss rate: 0.31%

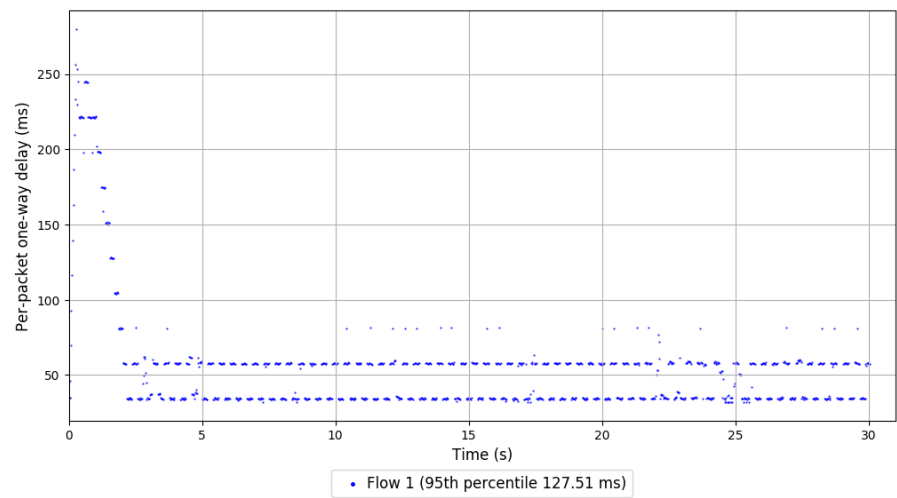
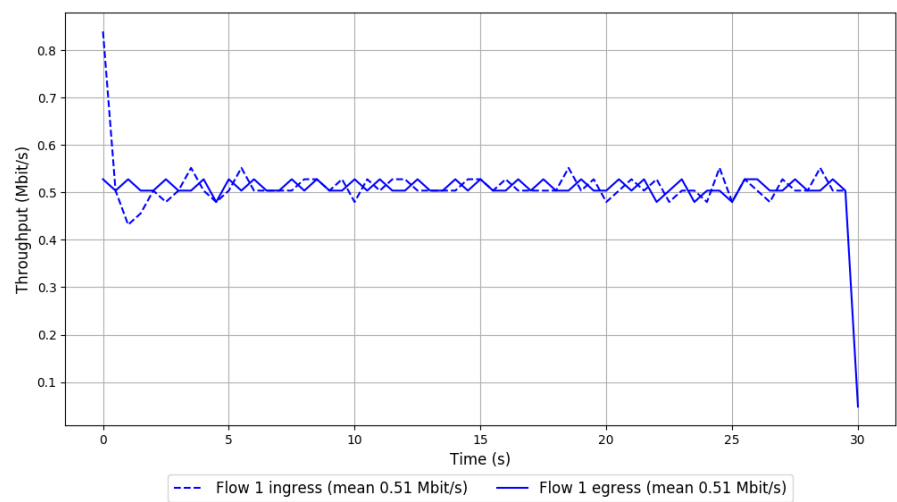
-- Flow 1:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 127.507 ms

Loss rate: 0.31%

Run 2: Report of CalibratedKoho — Data Link



Run 3: Statistics of CalibratedKoho

Start at: 2017-08-21 21:18:06

End at: 2017-08-21 21:18:36

Local clock offset: -1.569 ms

Remote clock offset: 7.063 ms

Below is generated by plot.py at 2017-08-21 23:38:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 126.601 ms

Loss rate: 0.31%

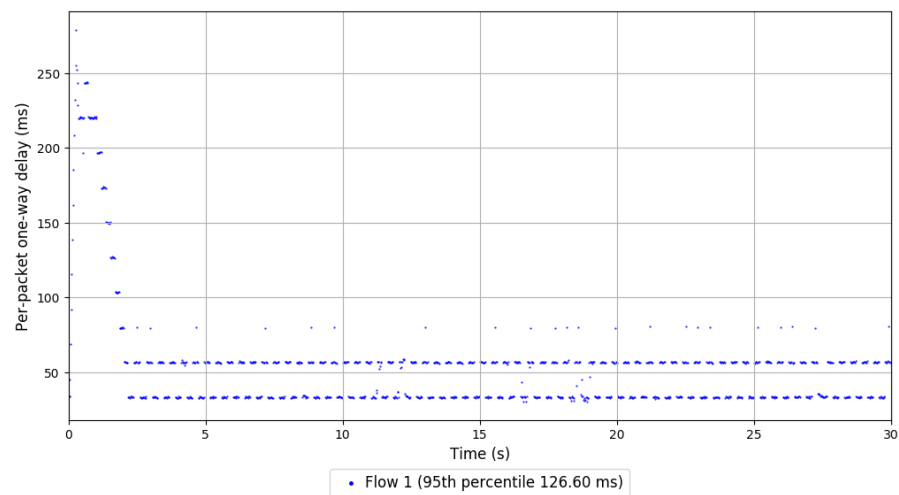
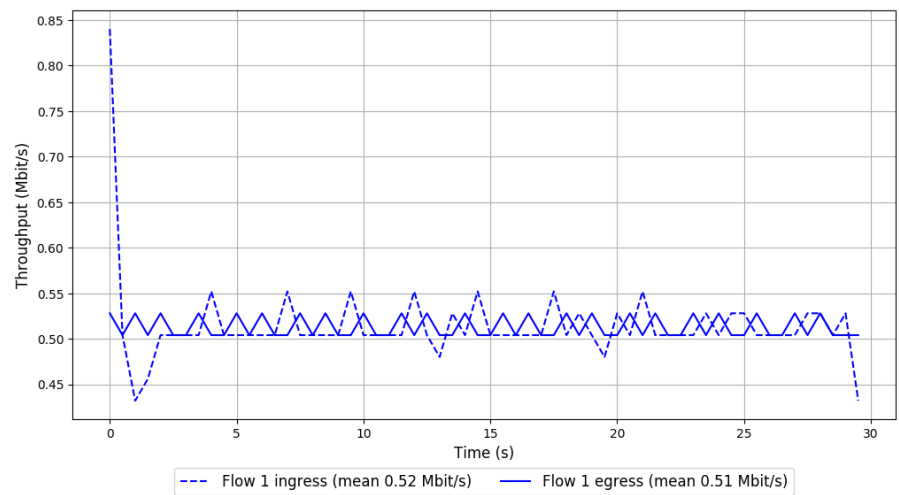
-- Flow 1:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 126.601 ms

Loss rate: 0.31%

Run 3: Report of CalibratedKoho — Data Link



Run 4: Statistics of CalibratedKoho

Start at: 2017-08-21 21:35:28

End at: 2017-08-21 21:35:58

Local clock offset: 2.446 ms

Remote clock offset: 7.076 ms

Below is generated by plot.py at 2017-08-21 23:38:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 123.177 ms

Loss rate: 0.31%

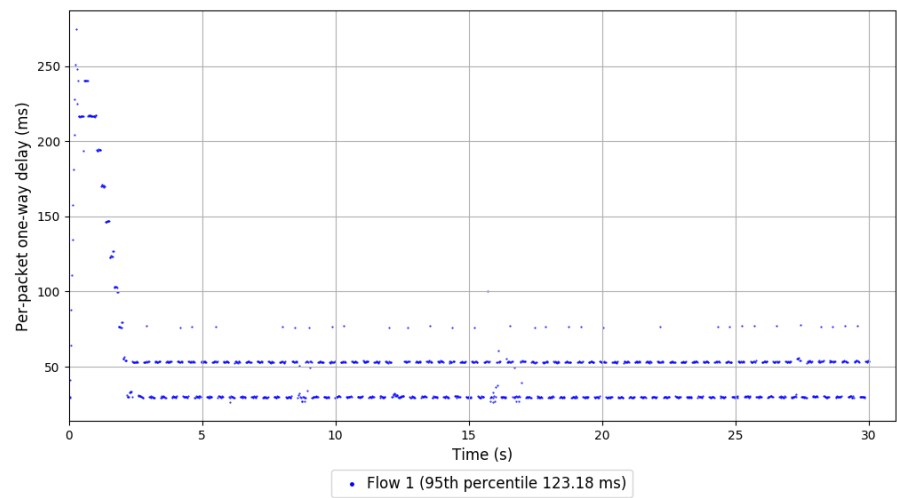
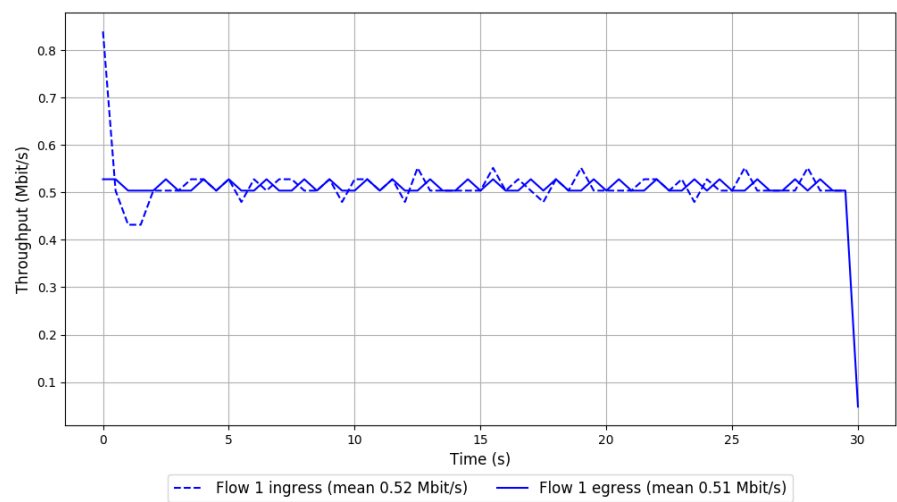
-- Flow 1:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 123.177 ms

Loss rate: 0.31%

Run 4: Report of CalibratedKoho — Data Link



Run 5: Statistics of CalibratedKoho

Start at: 2017-08-21 21:52:53

End at: 2017-08-21 21:53:23

Local clock offset: 2.481 ms

Remote clock offset: 7.087 ms

Below is generated by plot.py at 2017-08-21 23:38:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 124.405 ms

Loss rate: 0.31%

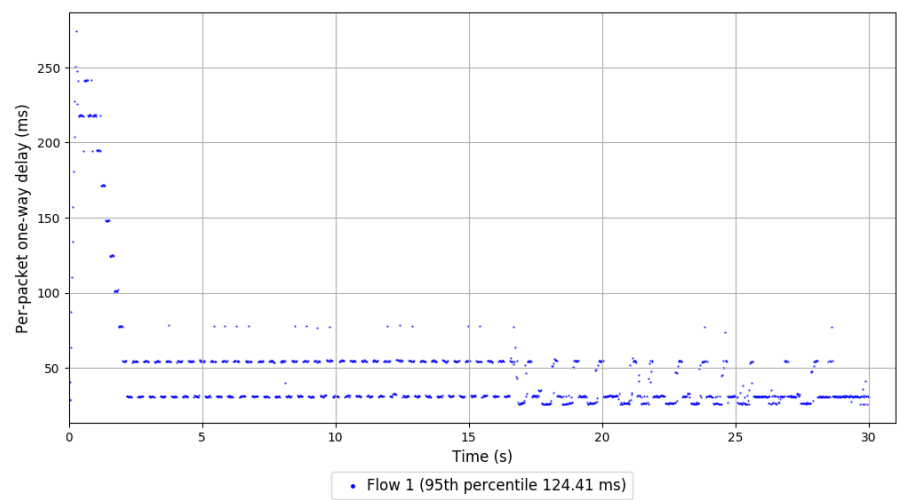
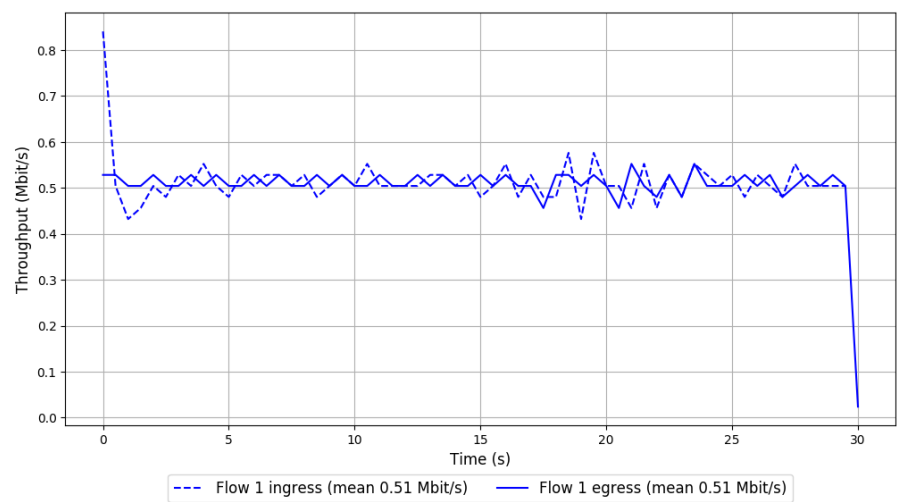
-- Flow 1:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 124.405 ms

Loss rate: 0.31%

Run 5: Report of CalibratedKoho — Data Link



Run 6: Statistics of CalibratedKoho

Start at: 2017-08-21 22:10:16

End at: 2017-08-21 22:10:46

Local clock offset: 1.389 ms

Remote clock offset: 7.749 ms

Below is generated by plot.py at 2017-08-21 23:38:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 138.849 ms

Loss rate: 0.31%

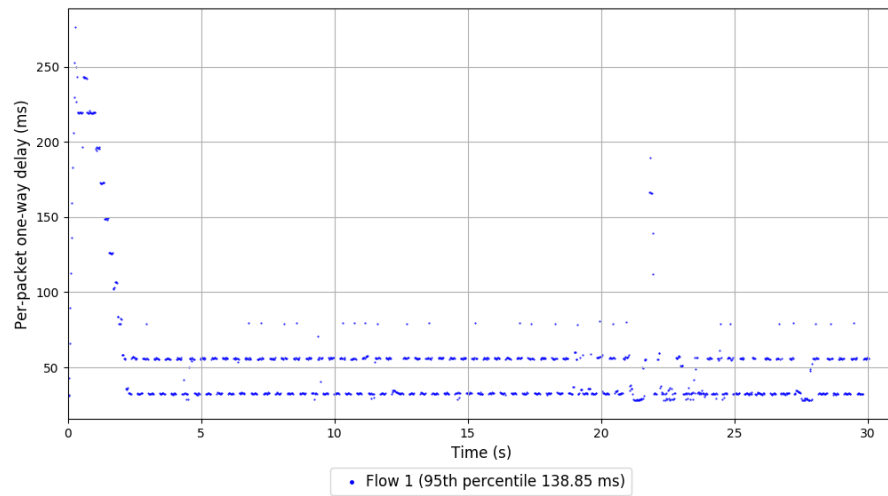
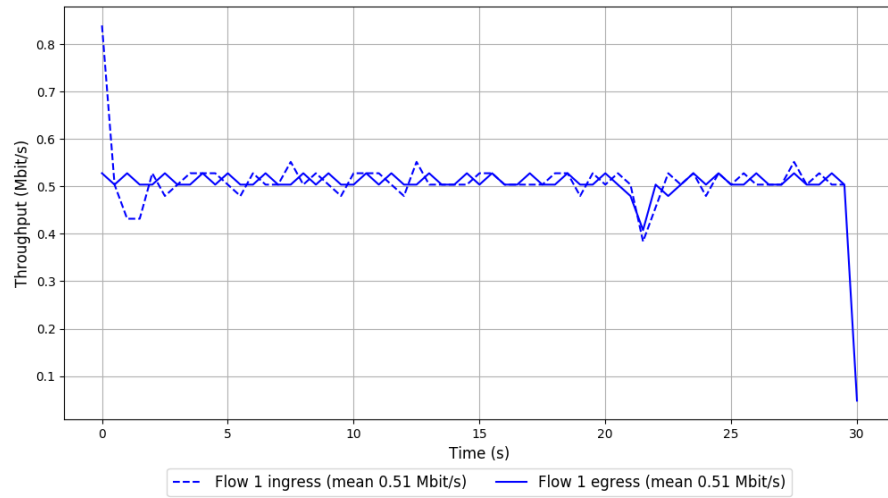
-- Flow 1:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 138.849 ms

Loss rate: 0.31%

Run 6: Report of CalibratedKoho — Data Link



Run 7: Statistics of CalibratedKoho

Start at: 2017-08-21 22:27:41

End at: 2017-08-21 22:28:11

Local clock offset: 0.222 ms

Remote clock offset: 7.019 ms

Below is generated by plot.py at 2017-08-21 23:38:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 145.155 ms

Loss rate: 0.31%

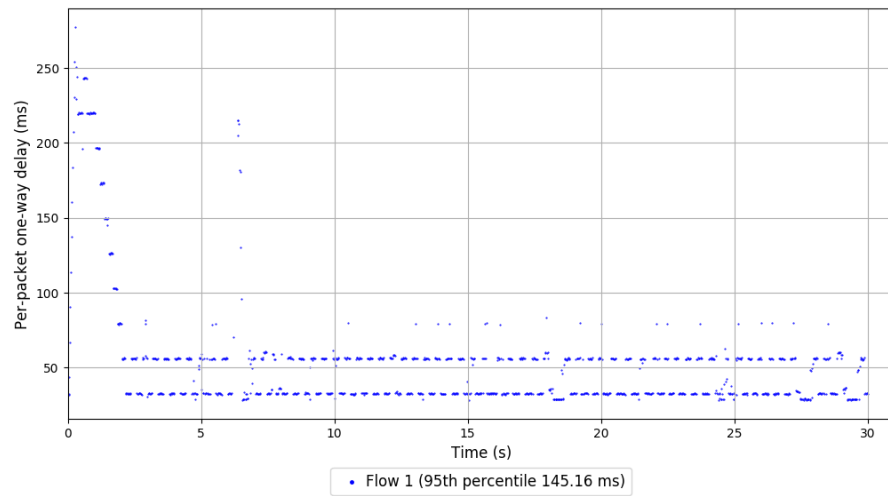
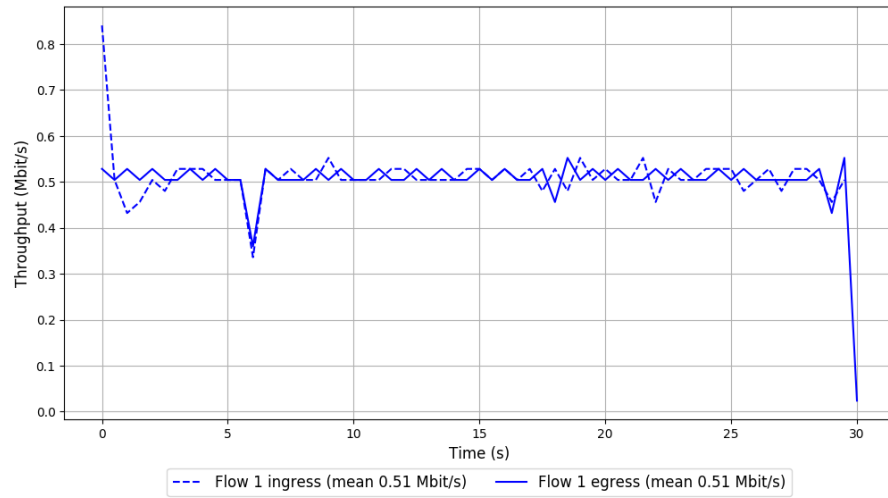
-- Flow 1:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 145.155 ms

Loss rate: 0.31%

Run 7: Report of CalibratedKoho — Data Link



Run 8: Statistics of CalibratedKoho

Start at: 2017-08-21 22:45:11

End at: 2017-08-21 22:45:41

Local clock offset: 1.716 ms

Remote clock offset: 7.017 ms

Below is generated by plot.py at 2017-08-21 23:38:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 124.062 ms

Loss rate: 0.31%

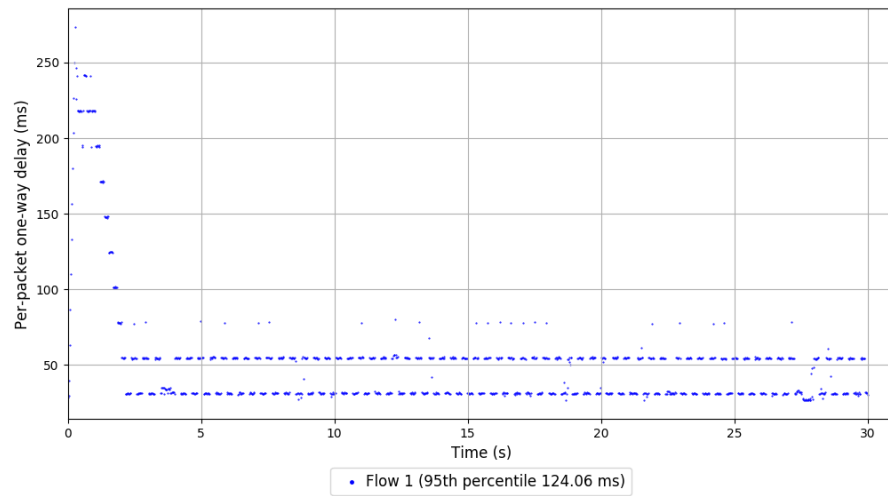
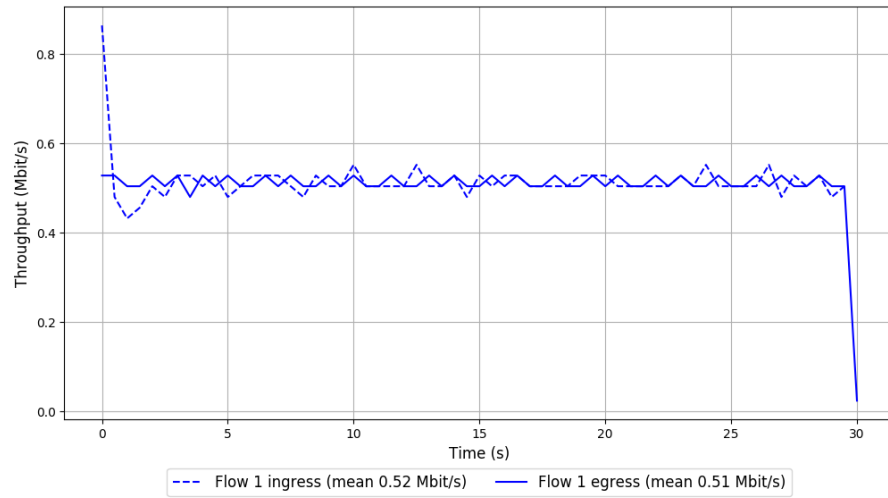
-- Flow 1:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 124.062 ms

Loss rate: 0.31%

Run 8: Report of CalibratedKoho — Data Link



Run 9: Statistics of CalibratedKoho

Start at: 2017-08-21 23:02:46

End at: 2017-08-21 23:03:16

Local clock offset: -0.377 ms

Remote clock offset: 7.559 ms

Below is generated by plot.py at 2017-08-21 23:38:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 125.589 ms

Loss rate: 0.31%

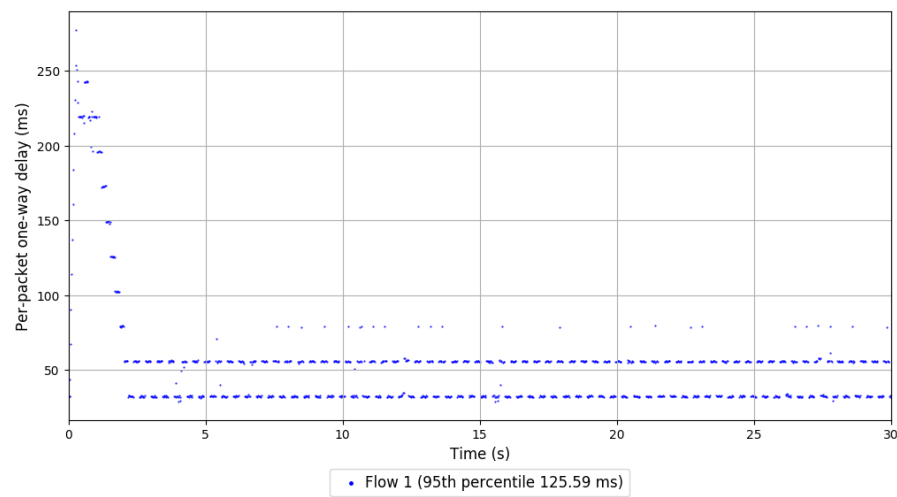
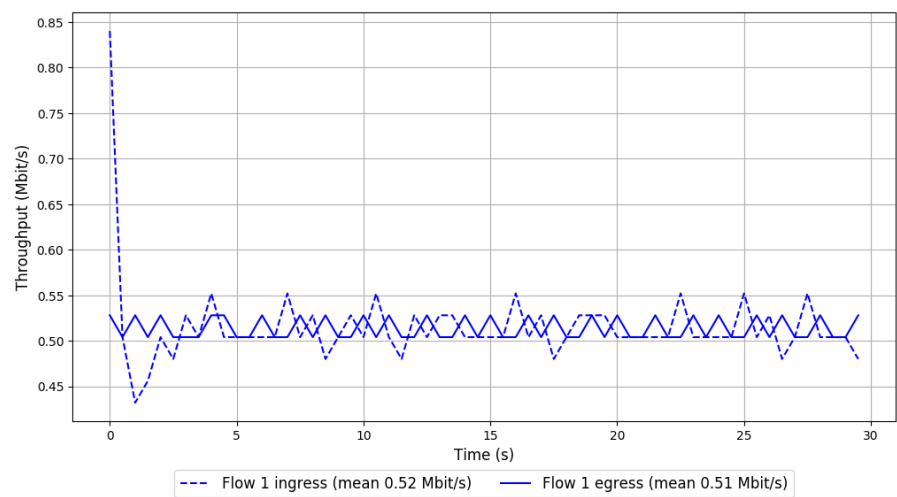
-- Flow 1:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 125.589 ms

Loss rate: 0.31%

Run 9: Report of CalibratedKoho — Data Link



Run 10: Statistics of CalibratedKoho

Start at: 2017-08-21 23:20:12

End at: 2017-08-21 23:20:42

Local clock offset: -2.895 ms

Remote clock offset: 5.907 ms

Below is generated by plot.py at 2017-08-21 23:38:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 127.874 ms

Loss rate: 0.31%

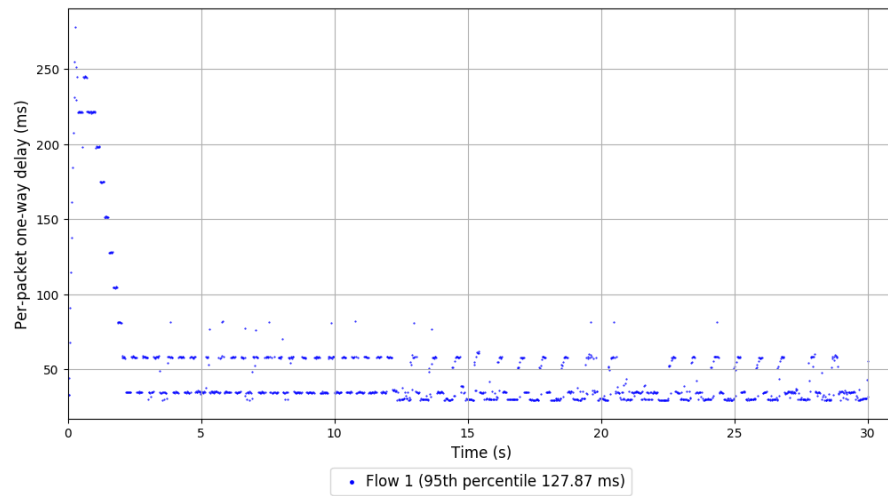
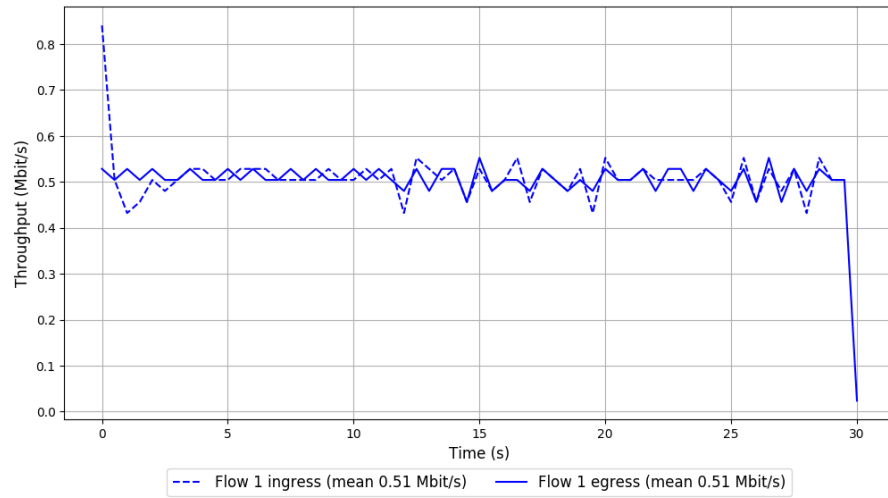
-- Flow 1:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 127.874 ms

Loss rate: 0.31%

Run 10: Report of CalibratedKoho — Data Link



Run 1: Statistics of Copa

Start at: 2017-08-21 20:49:27

End at: 2017-08-21 20:49:57

Local clock offset: 2.328 ms

Remote clock offset: 7.89 ms

Below is generated by plot.py at 2017-08-21 23:38:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.50 Mbit/s

95th percentile per-packet one-way delay: 125.754 ms

Loss rate: 0.90%

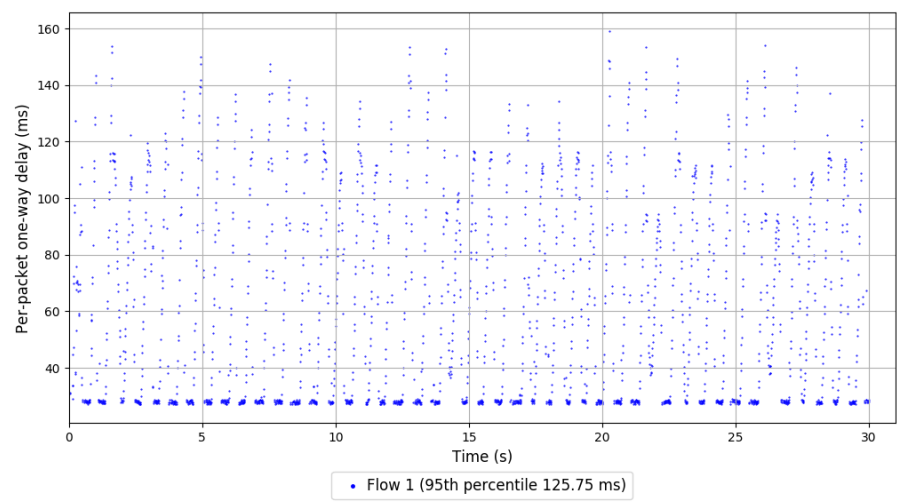
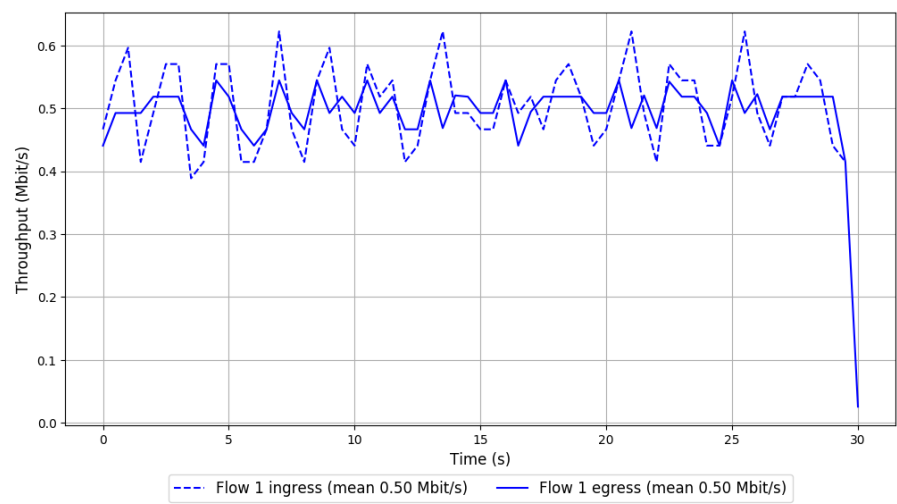
-- Flow 1:

Average throughput: 0.50 Mbit/s

95th percentile per-packet one-way delay: 125.754 ms

Loss rate: 0.90%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2017-08-21 21:06:53

End at: 2017-08-21 21:07:23

Local clock offset: -0.504 ms

Remote clock offset: 7.841 ms

Below is generated by plot.py at 2017-08-21 23:38:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 128.714 ms

Loss rate: 1.08%

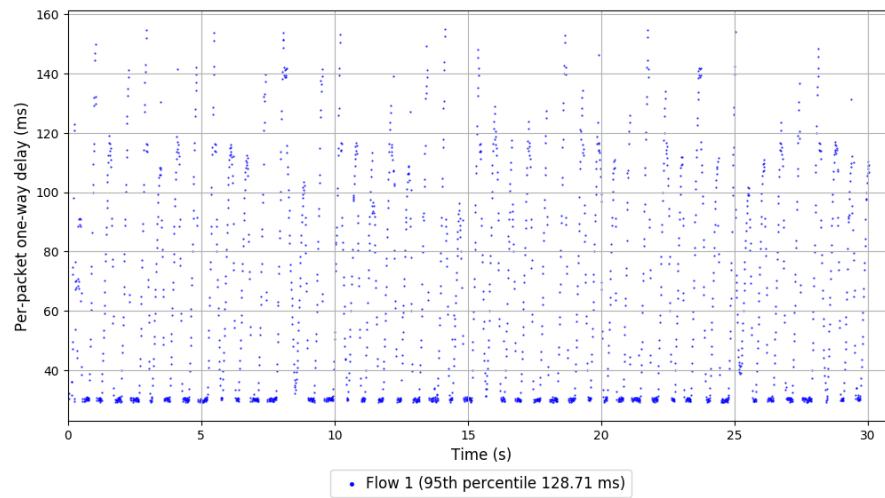
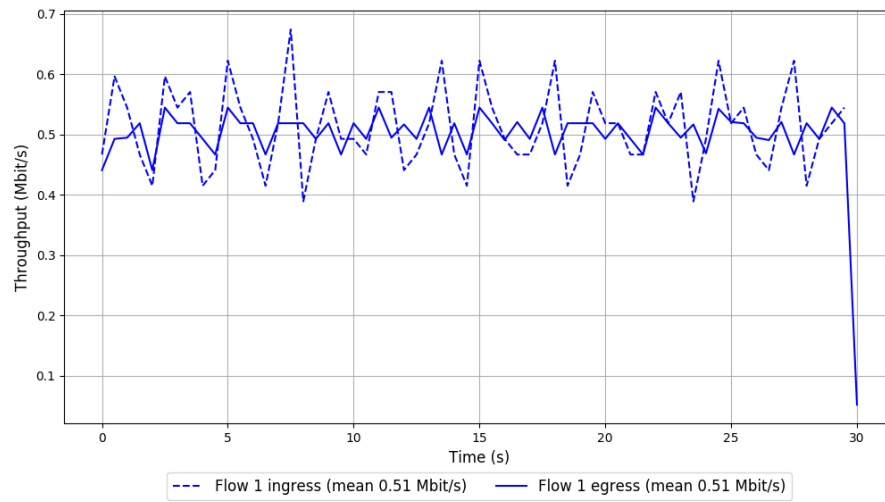
-- Flow 1:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 128.714 ms

Loss rate: 1.08%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2017-08-21 21:24:18

End at: 2017-08-21 21:24:48

Local clock offset: -0.849 ms

Remote clock offset: 7.903 ms

Below is generated by plot.py at 2017-08-21 23:38:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 121.094 ms

Loss rate: 0.09%

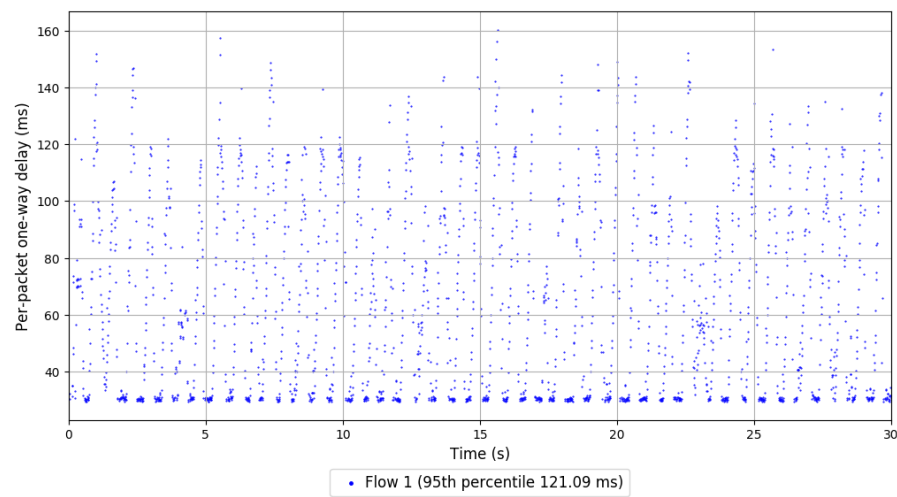
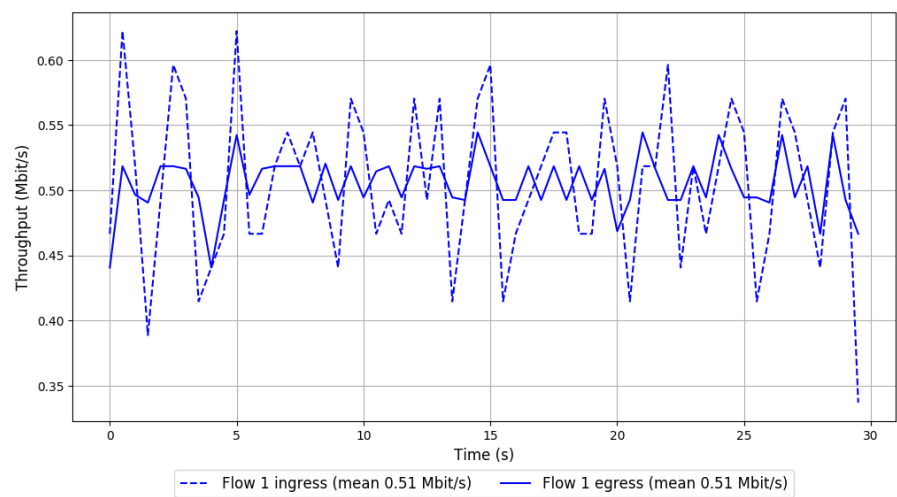
-- Flow 1:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 121.094 ms

Loss rate: 0.09%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2017-08-21 21:41:40

End at: 2017-08-21 21:42:10

Local clock offset: 2.476 ms

Remote clock offset: 6.765 ms

Below is generated by plot.py at 2017-08-21 23:38:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 123.642 ms

Loss rate: 1.16%

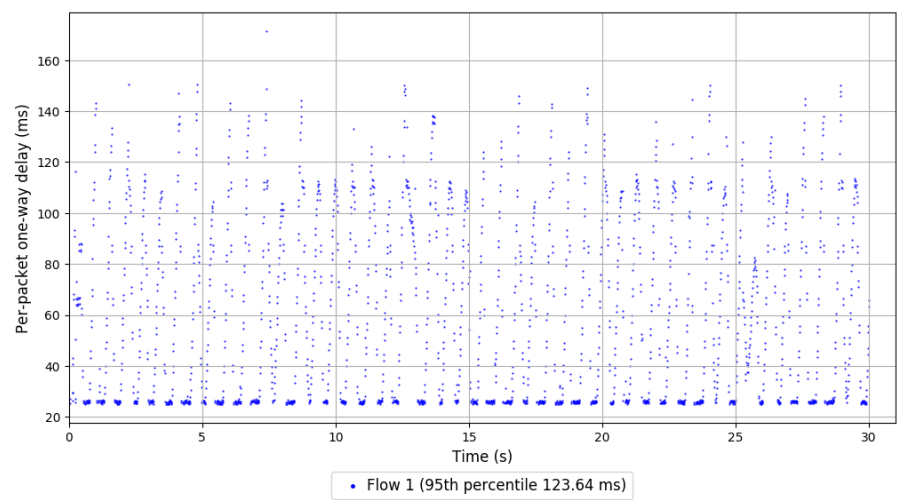
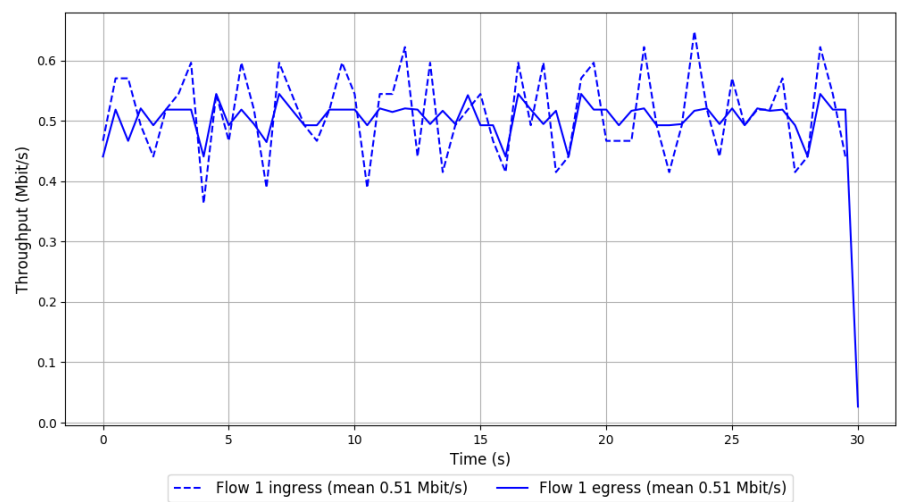
-- Flow 1:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 123.642 ms

Loss rate: 1.16%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2017-08-21 21:59:04

End at: 2017-08-21 21:59:34

Local clock offset: 1.398 ms

Remote clock offset: 7.246 ms

Below is generated by plot.py at 2017-08-21 23:38:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.50 Mbit/s

95th percentile per-packet one-way delay: 123.975 ms

Loss rate: 0.57%

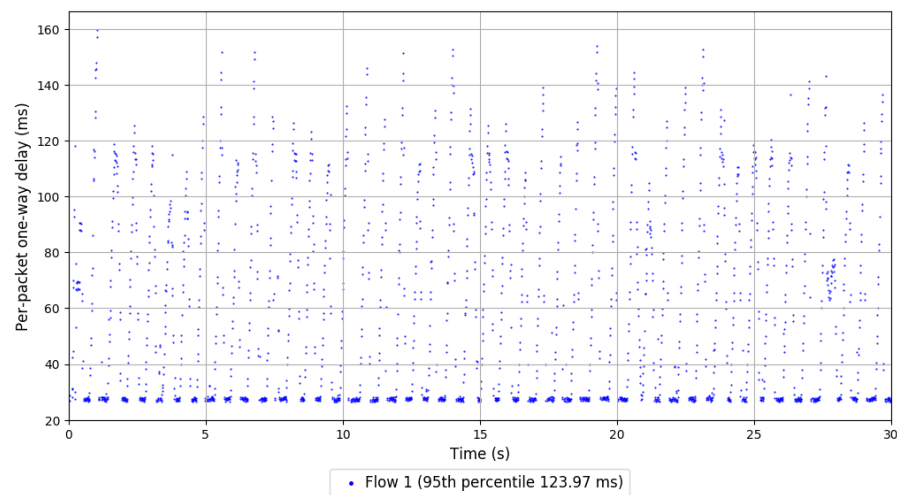
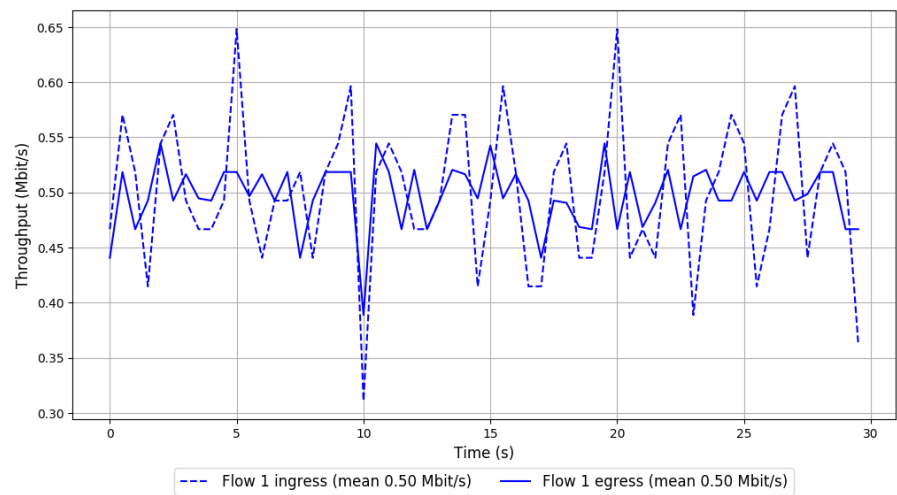
-- Flow 1:

Average throughput: 0.50 Mbit/s

95th percentile per-packet one-way delay: 123.975 ms

Loss rate: 0.57%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2017-08-21 22:16:27

End at: 2017-08-21 22:16:57

Local clock offset: 0.961 ms

Remote clock offset: 8.351 ms

Below is generated by plot.py at 2017-08-21 23:38:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 127.665 ms

Loss rate: 0.65%

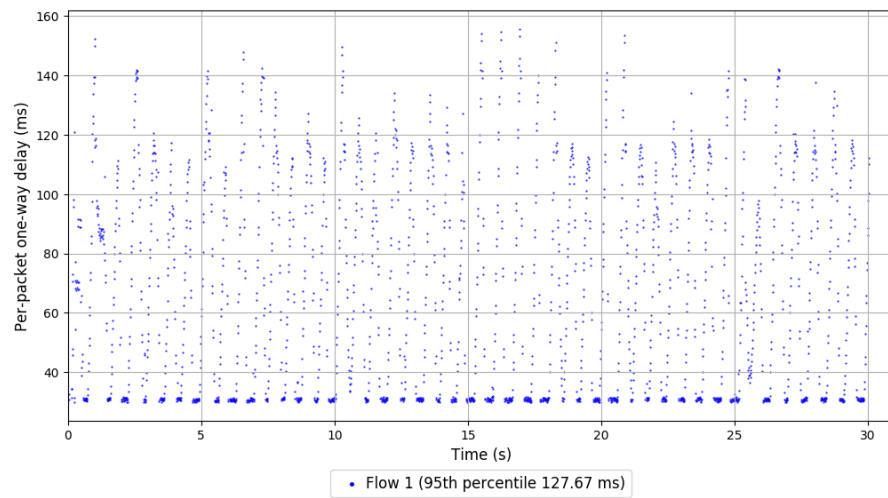
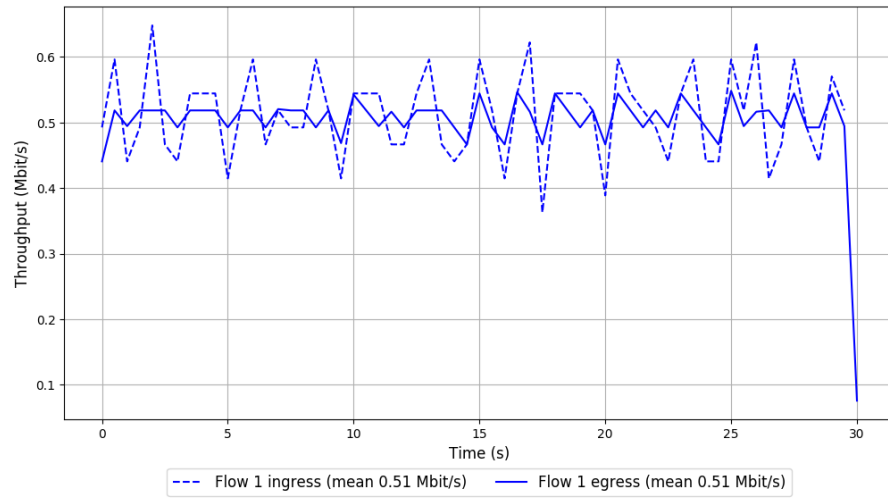
-- Flow 1:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 127.665 ms

Loss rate: 0.65%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2017-08-21 22:33:54

End at: 2017-08-21 22:34:24

Local clock offset: 1.288 ms

Remote clock offset: 7.228 ms

Below is generated by plot.py at 2017-08-21 23:38:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.50 Mbit/s

95th percentile per-packet one-way delay: 122.306 ms

Loss rate: 1.41%

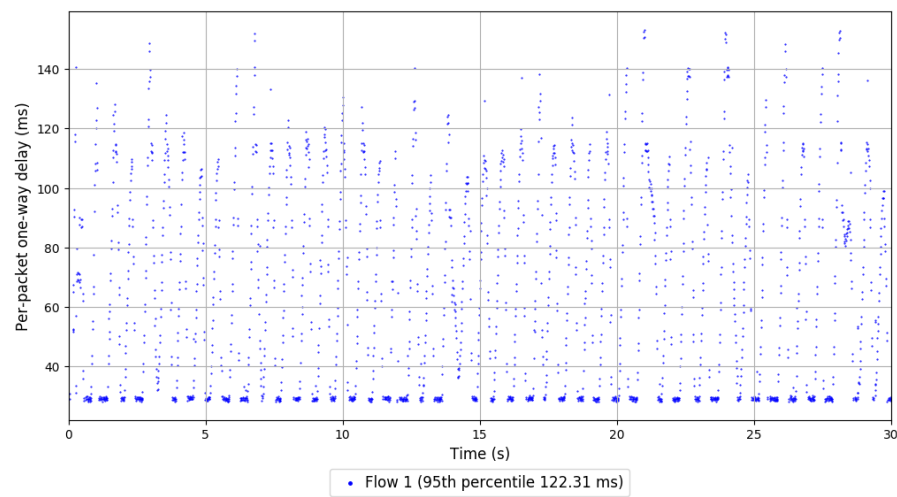
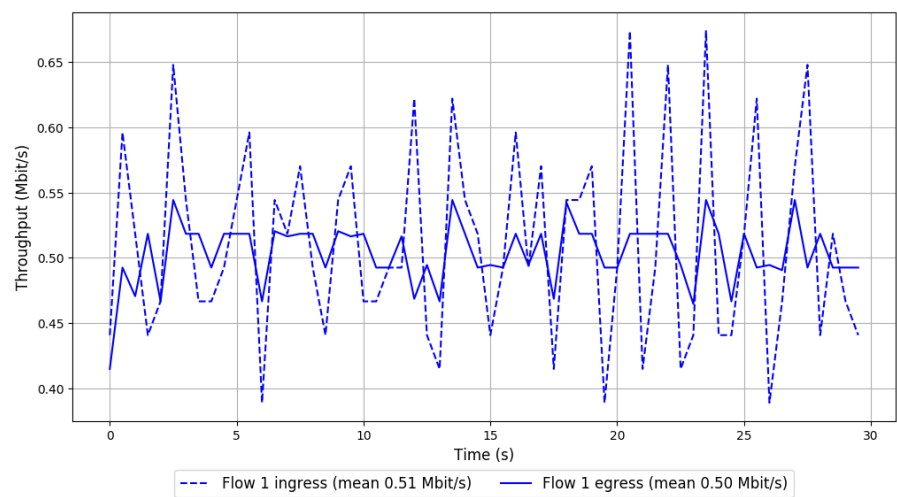
-- Flow 1:

Average throughput: 0.50 Mbit/s

95th percentile per-packet one-way delay: 122.306 ms

Loss rate: 1.41%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2017-08-21 22:51:24

End at: 2017-08-21 22:51:54

Local clock offset: 0.587 ms

Remote clock offset: 7.512 ms

Below is generated by plot.py at 2017-08-21 23:38:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.50 Mbit/s

95th percentile per-packet one-way delay: 119.177 ms

Loss rate: 0.35%

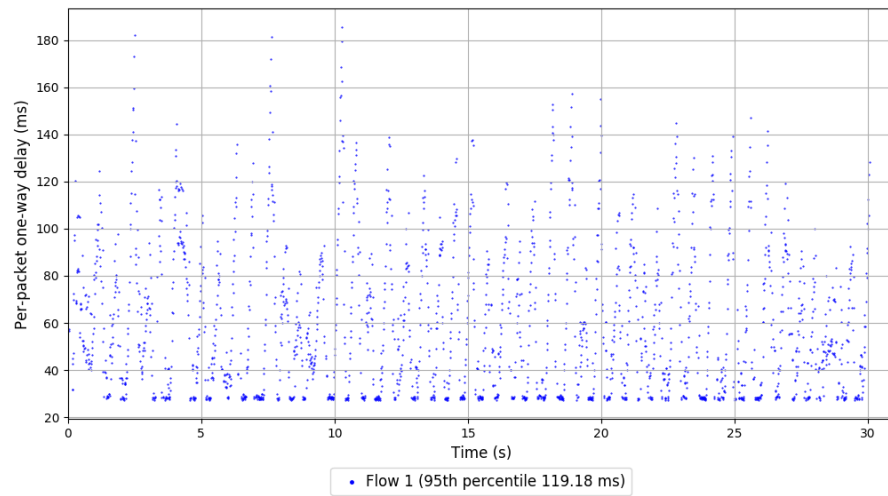
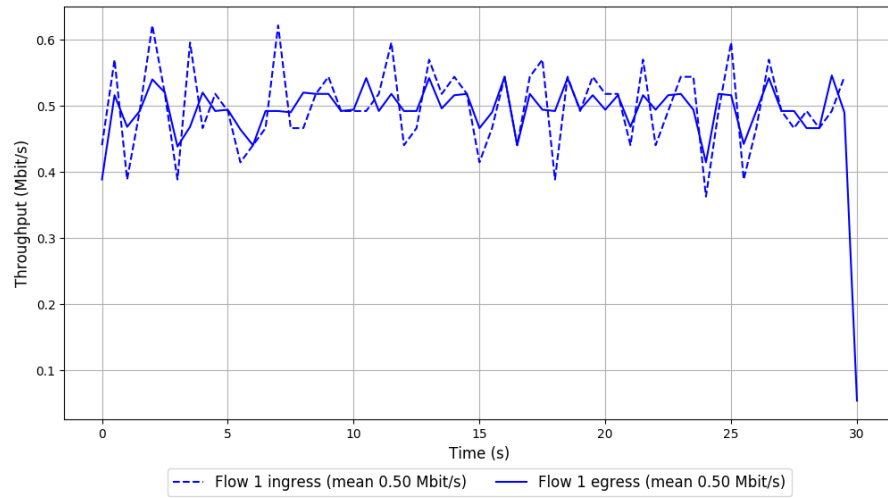
-- Flow 1:

Average throughput: 0.50 Mbit/s

95th percentile per-packet one-way delay: 119.177 ms

Loss rate: 0.35%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2017-08-21 23:08:58

End at: 2017-08-21 23:09:28

Local clock offset: -0.912 ms

Remote clock offset: 6.969 ms

Below is generated by plot.py at 2017-08-21 23:38:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 128.737 ms

Loss rate: 0.59%

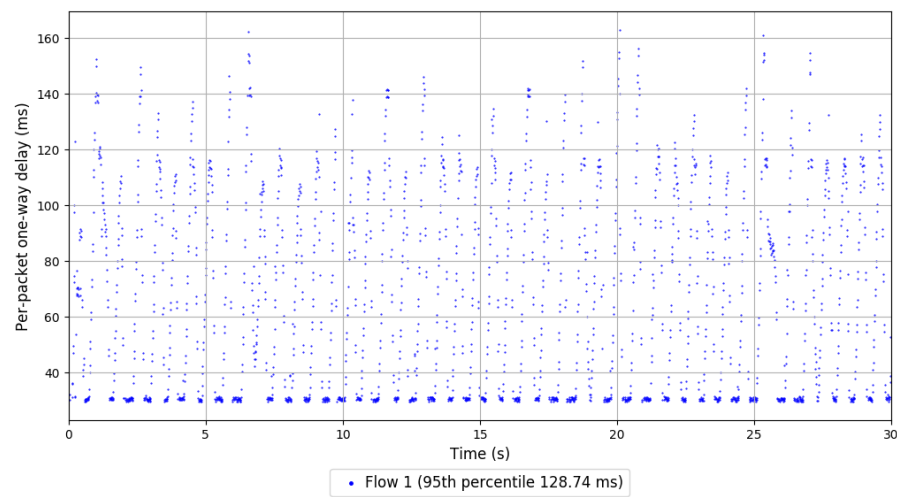
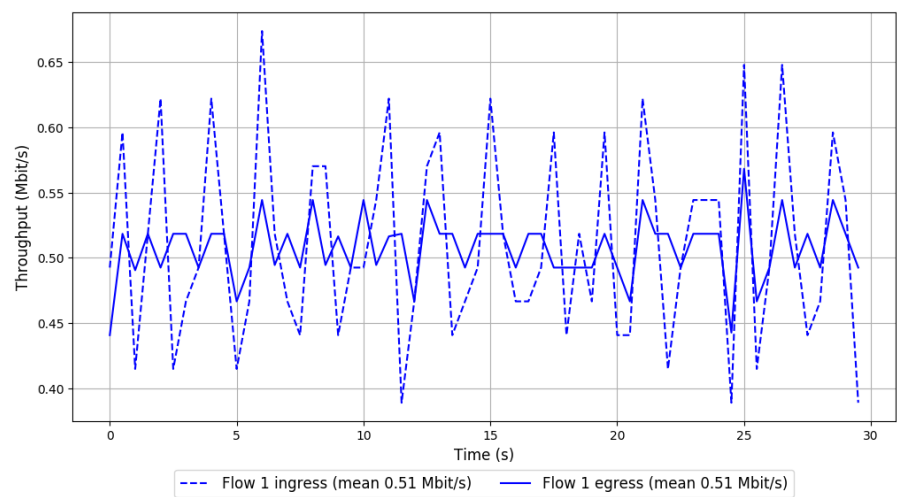
-- Flow 1:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 128.737 ms

Loss rate: 0.59%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2017-08-21 23:26:25

End at: 2017-08-21 23:26:55

Local clock offset: 1.394 ms

Remote clock offset: 7.413 ms

Below is generated by plot.py at 2017-08-21 23:38:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.50 Mbit/s

95th percentile per-packet one-way delay: 123.724 ms

Loss rate: 1.08%

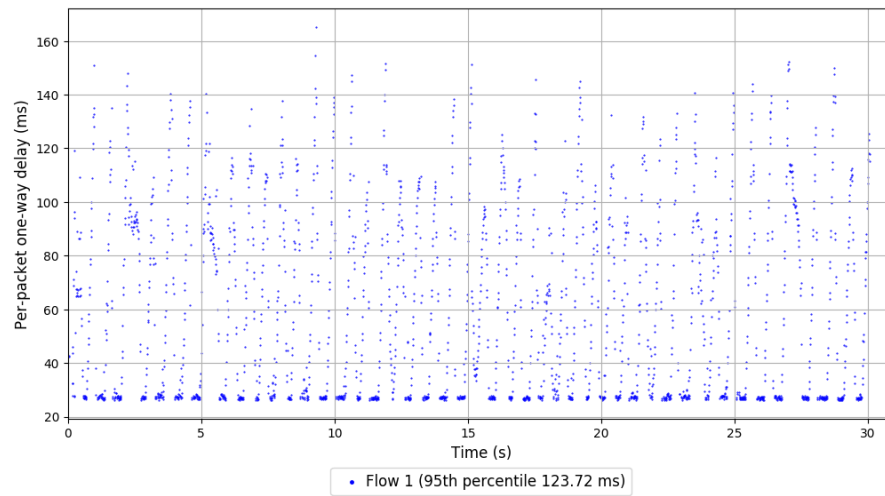
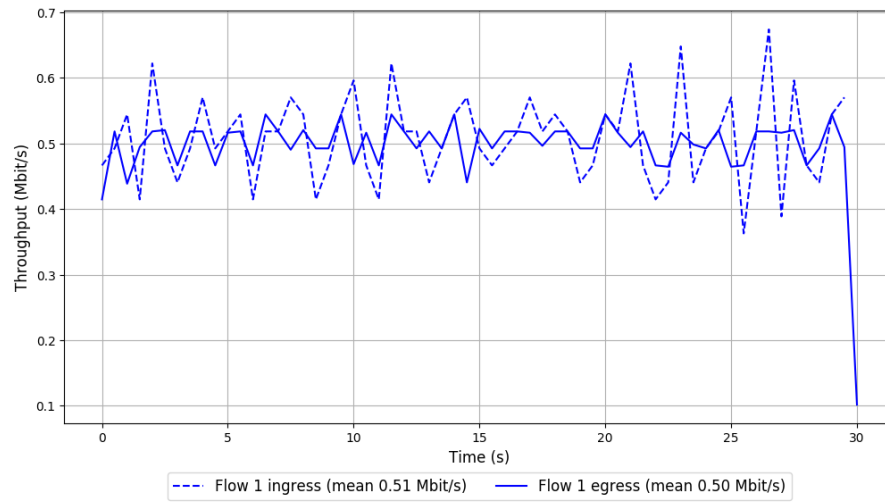
-- Flow 1:

Average throughput: 0.50 Mbit/s

95th percentile per-packet one-way delay: 123.724 ms

Loss rate: 1.08%

Run 10: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2017-08-21 20:54:25

End at: 2017-08-21 20:54:55

Local clock offset: 0.051 ms

Remote clock offset: 7.027 ms

Below is generated by plot.py at 2017-08-21 23:38:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 244.941 ms

Loss rate: 2.57%

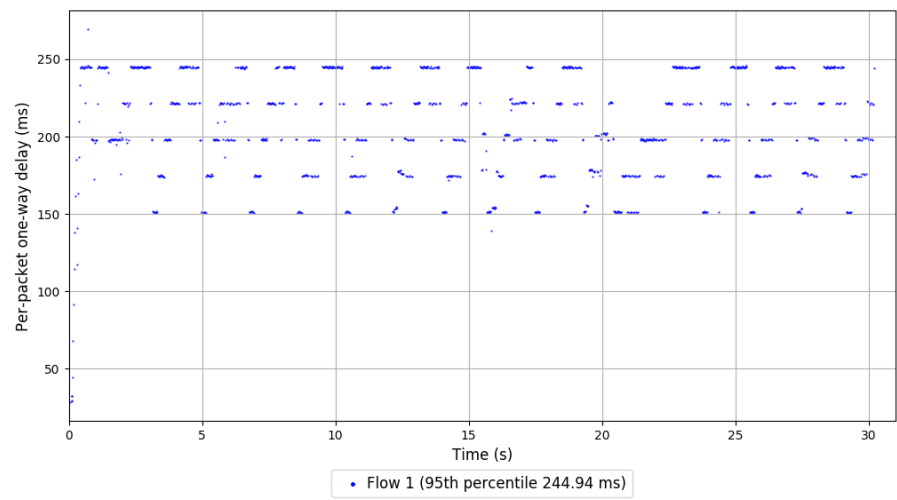
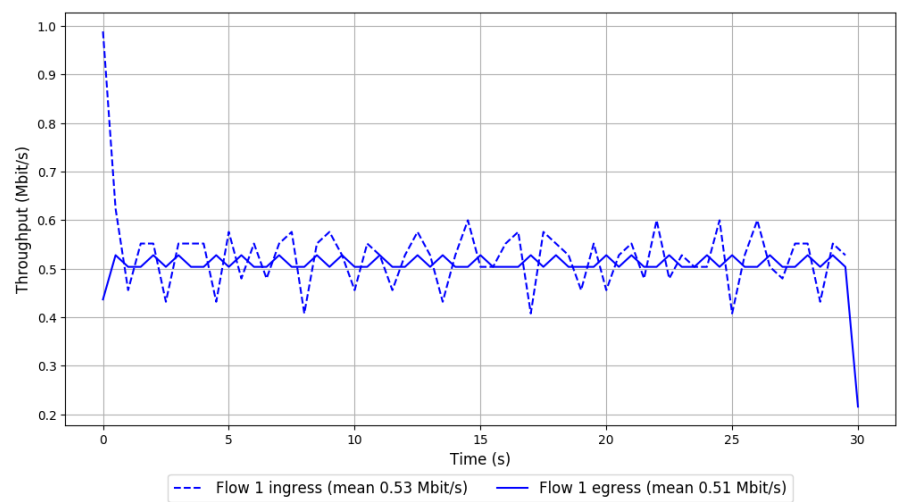
-- Flow 1:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 244.941 ms

Loss rate: 2.57%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

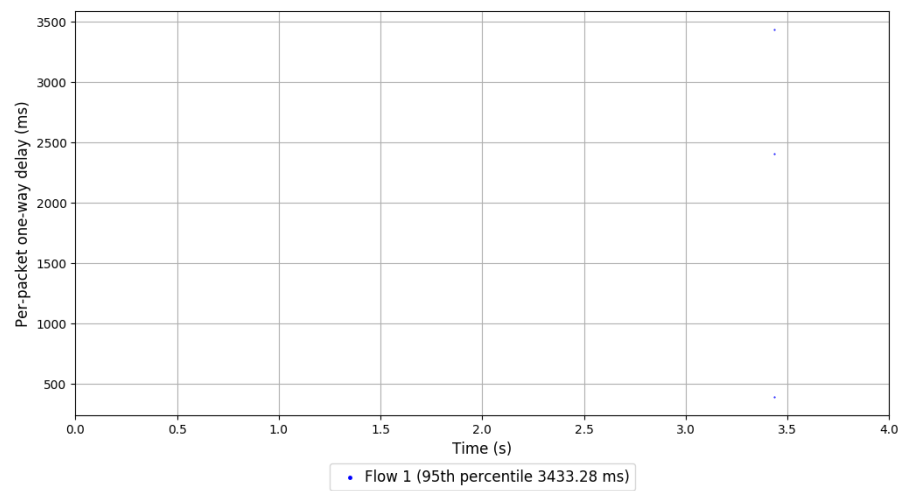
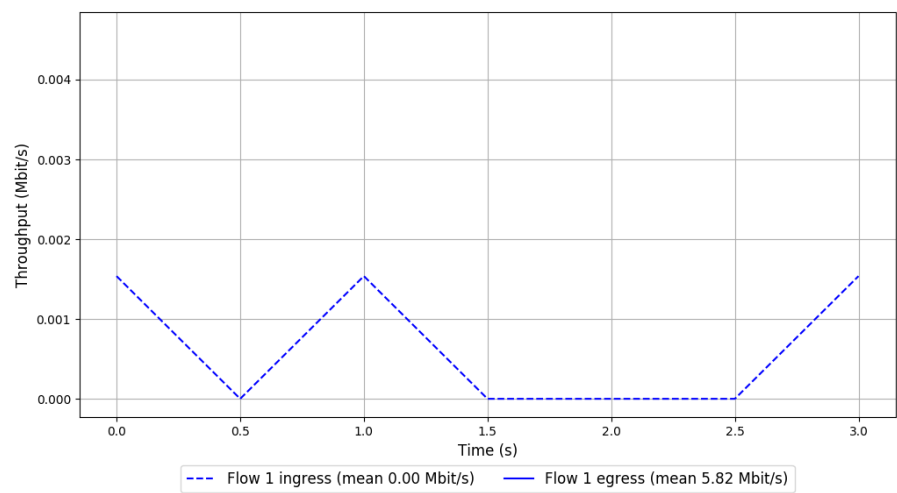
Start at: 2017-08-21 21:11:51

End at: 2017-08-21 21:12:21

Local clock offset: 0.497 ms

Remote clock offset: 6.634 ms

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

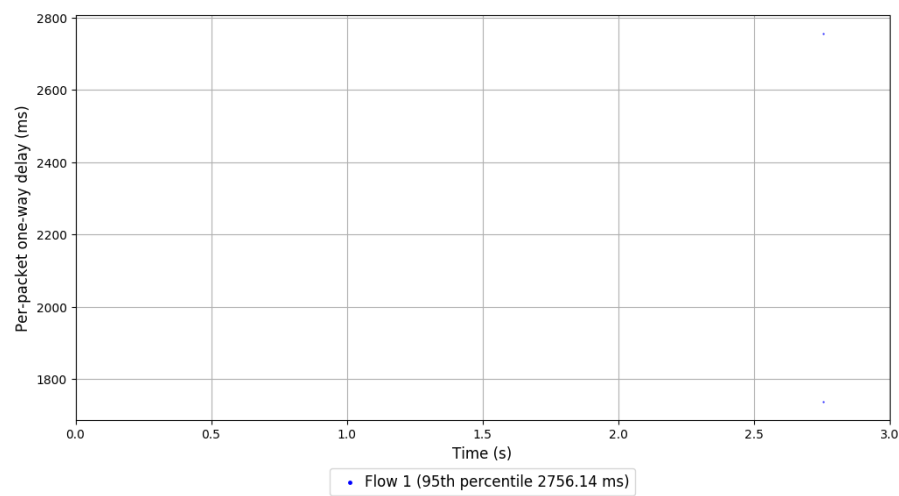
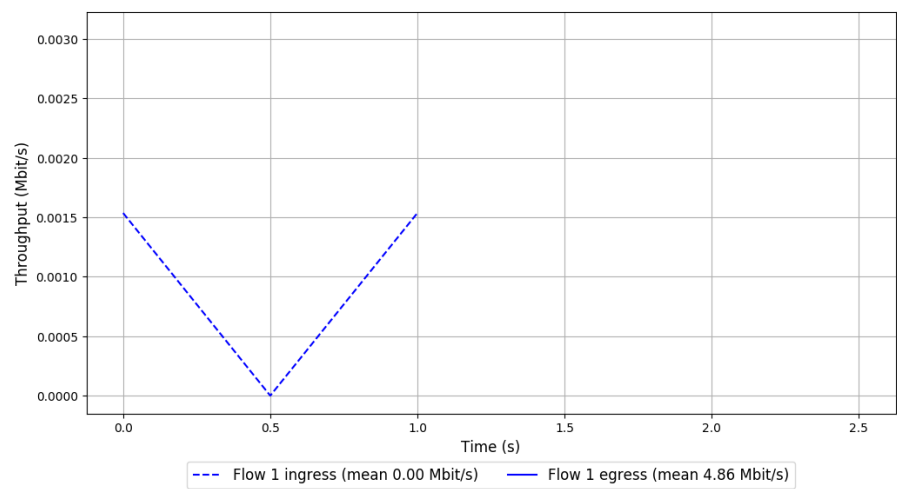
Start at: 2017-08-21 21:29:16

End at: 2017-08-21 21:29:46

Local clock offset: 1.006 ms

Remote clock offset: 7.619 ms

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2017-08-21 21:46:38

End at: 2017-08-21 21:47:08

Local clock offset: 0.05 ms

Remote clock offset: 8.097 ms

Run 4: Report of TCP Cubic — Data Link

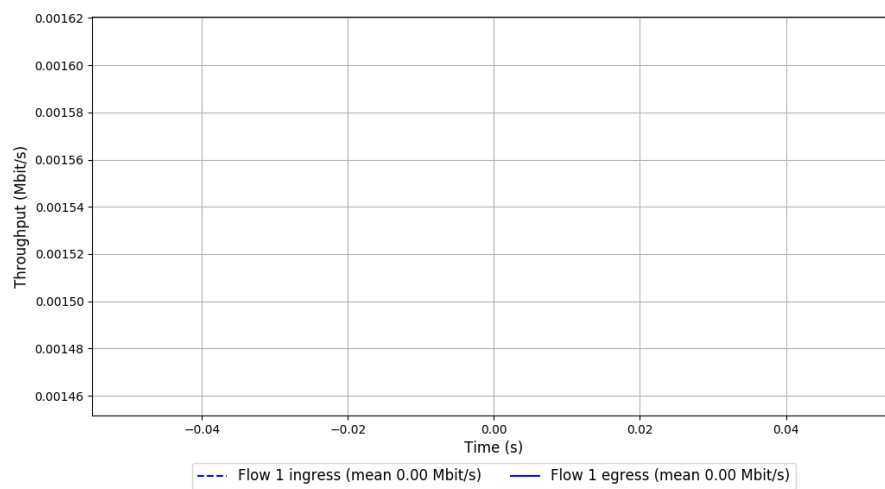


Figure is missing

Run 5: Statistics of TCP Cubic

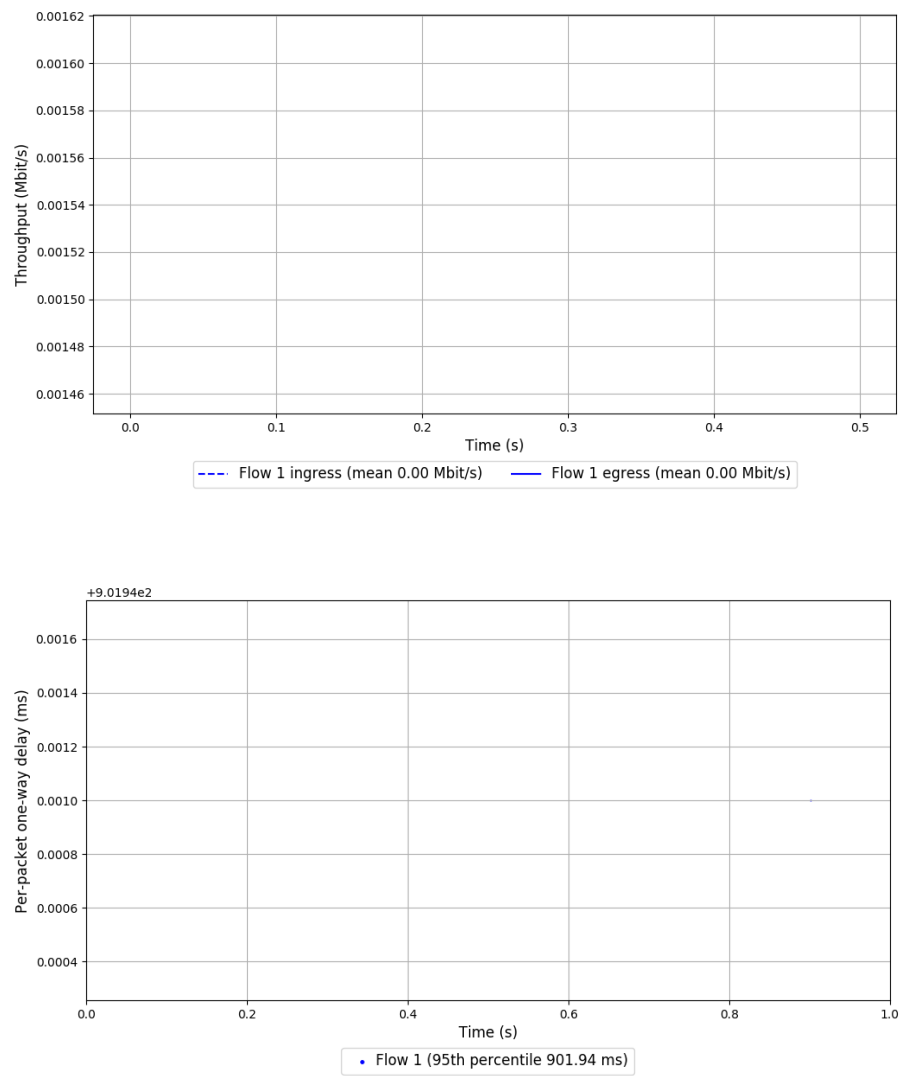
Start at: 2017-08-21 22:04:04

End at: 2017-08-21 22:04:34

Local clock offset: -2.283 ms

Remote clock offset: 7.02 ms

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

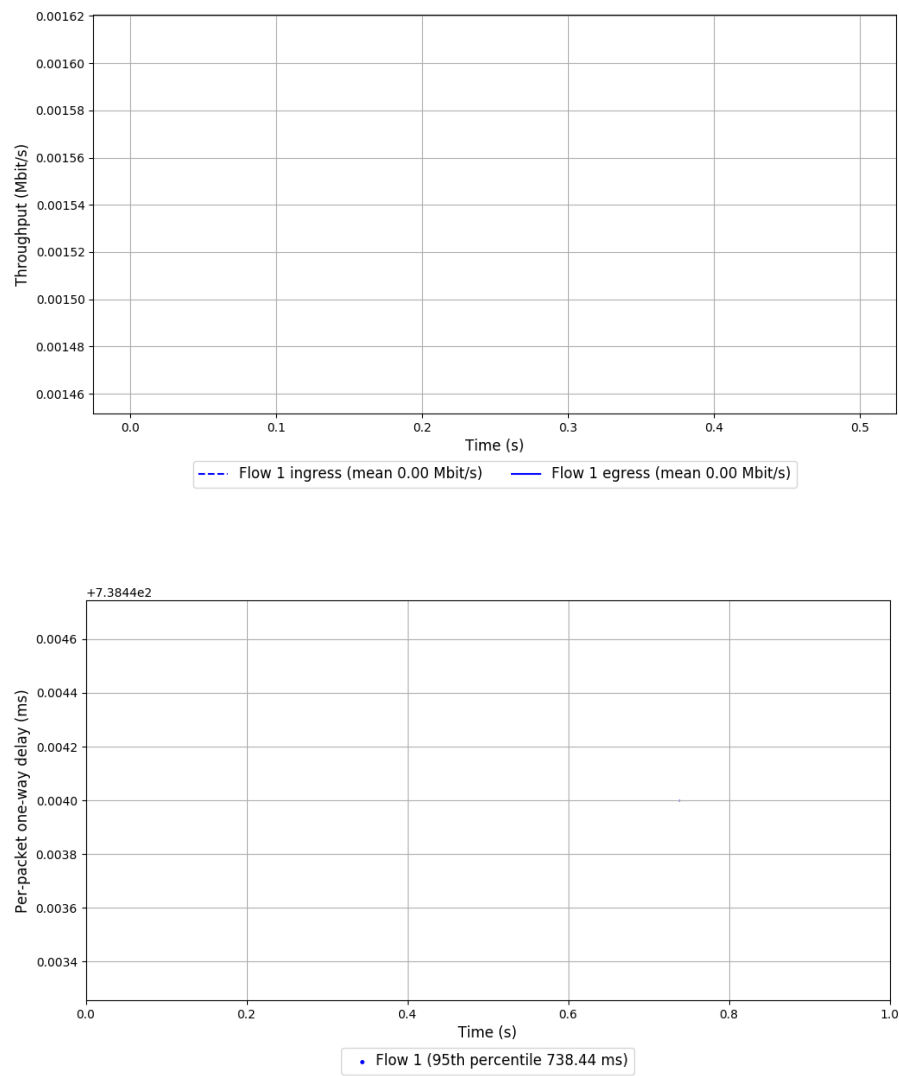
Start at: 2017-08-21 22:21:28

End at: 2017-08-21 22:21:58

Local clock offset: -1.032 ms

Remote clock offset: 6.24 ms

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2017-08-21 22:38:56

End at: 2017-08-21 22:39:26

Local clock offset: -1.732 ms

Remote clock offset: 6.841 ms

Below is generated by plot.py at 2017-08-21 23:38:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 245.596 ms

Loss rate: 2.87%

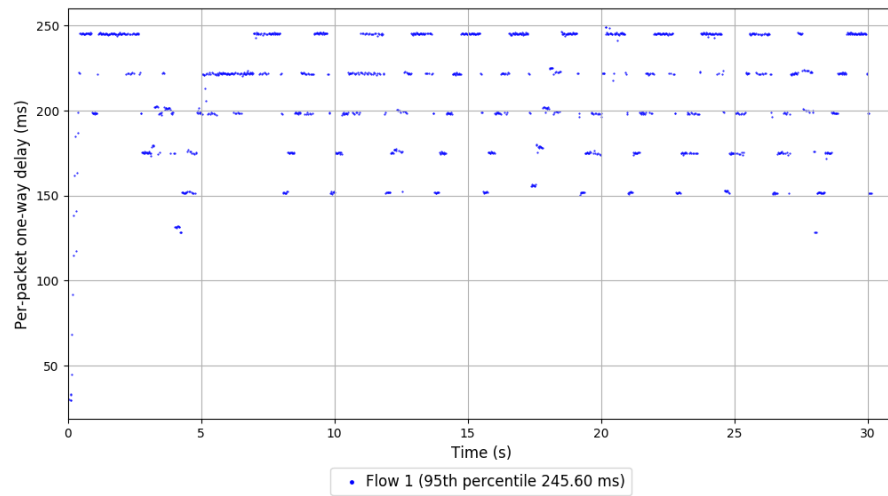
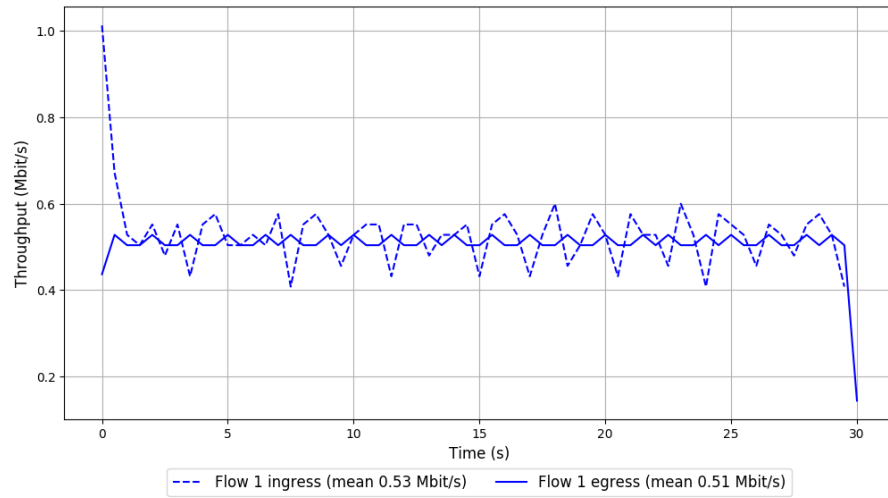
-- Flow 1:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 245.596 ms

Loss rate: 2.87%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2017-08-21 22:56:31

End at: 2017-08-21 22:57:01

Local clock offset: 0.699 ms

Remote clock offset: 6.483 ms

Below is generated by plot.py at 2017-08-21 23:38:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 242.154 ms

Loss rate: 2.72%

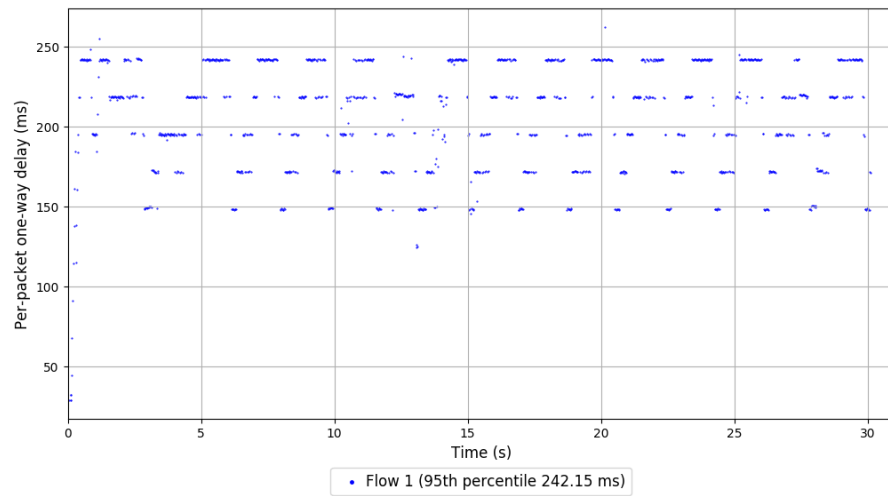
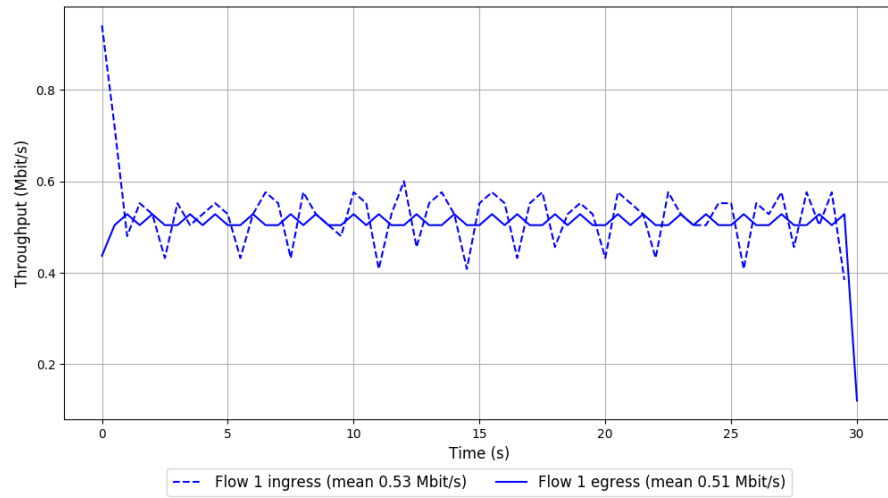
-- Flow 1:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 242.154 ms

Loss rate: 2.72%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2017-08-21 23:13:58

End at: 2017-08-21 23:14:28

Local clock offset: 1.211 ms

Remote clock offset: 7.782 ms

Below is generated by plot.py at 2017-08-21 23:38:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 242.908 ms

Loss rate: 2.65%

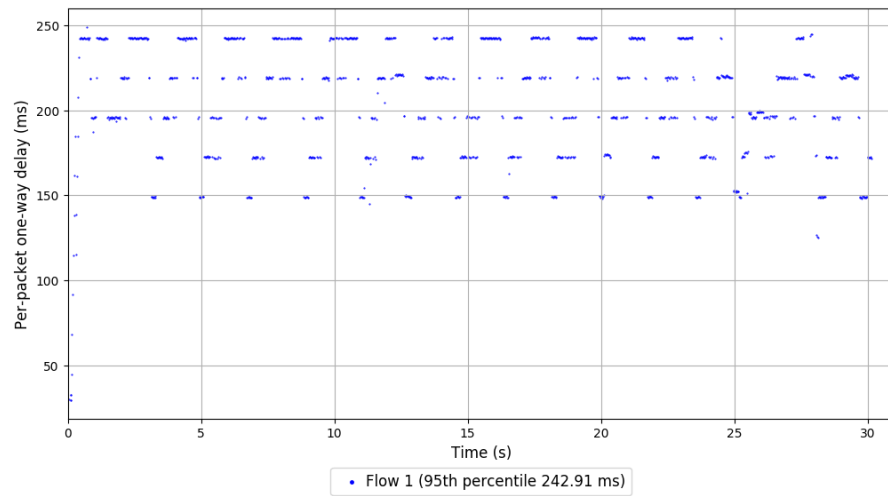
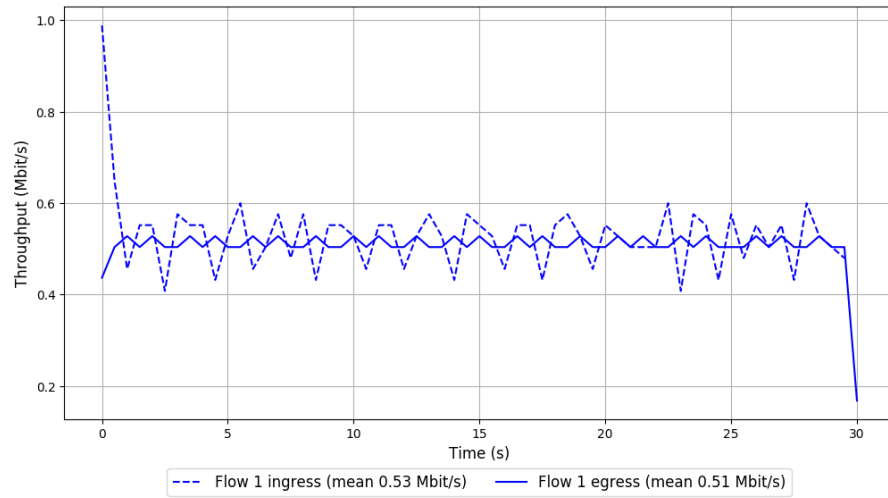
-- Flow 1:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 242.908 ms

Loss rate: 2.65%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

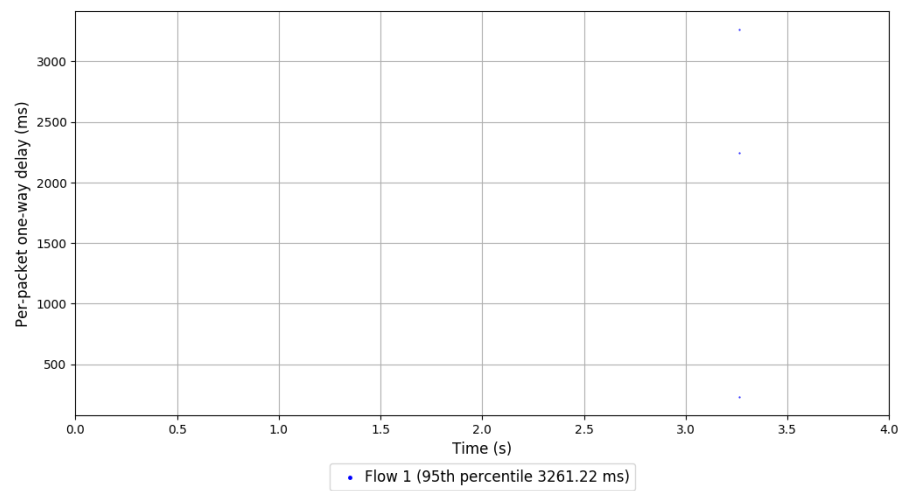
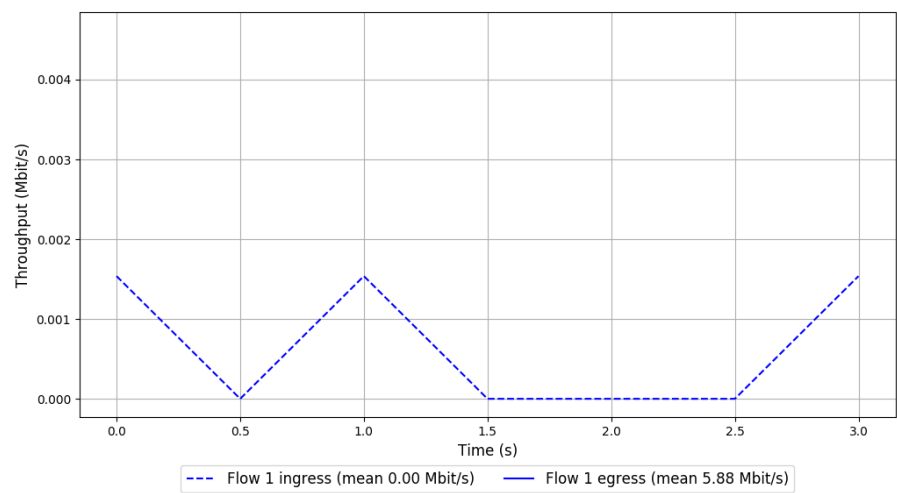
Start at: 2017-08-21 23:31:24

End at: 2017-08-21 23:31:54

Local clock offset: 0.933 ms

Remote clock offset: 7.08 ms

Run 10: Report of TCP Cubic — Data Link

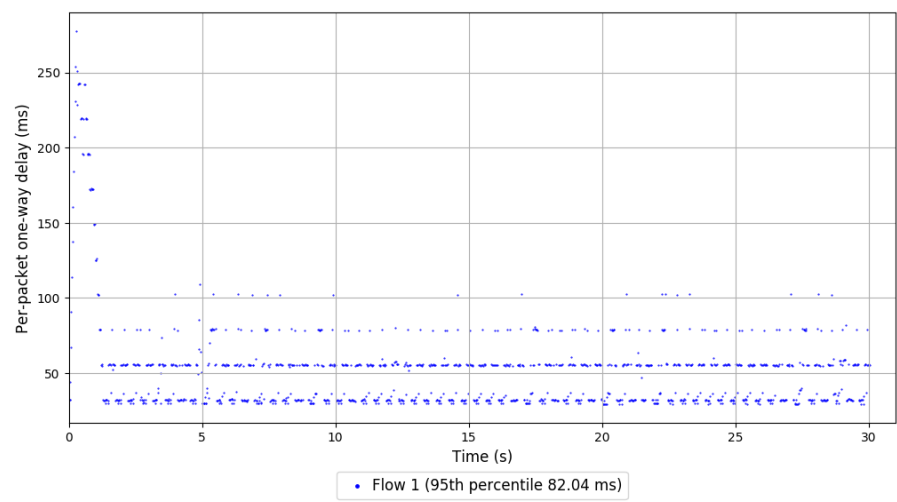
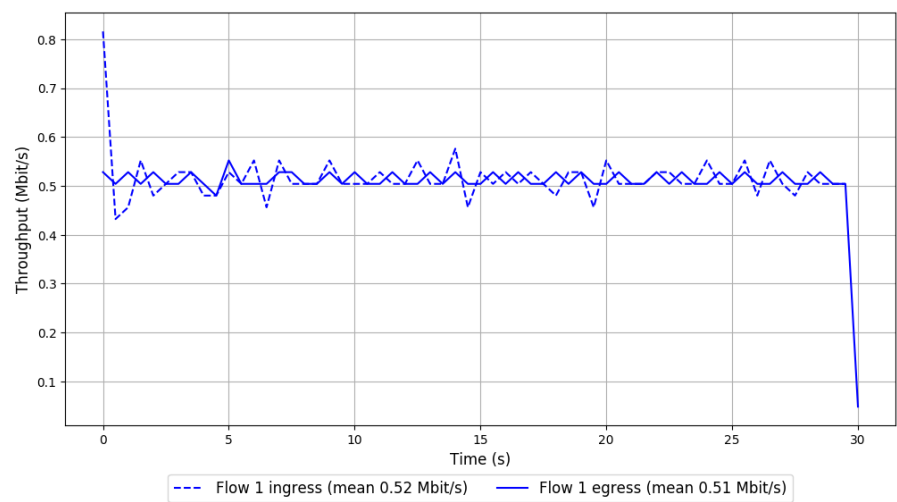


```
Run 1: Statistics of KohoCC

Start at: 2017-08-21 20:56:54
End at: 2017-08-21 20:57:24
Local clock offset: 2.26 ms
Remote clock offset: 7.667 ms

# Below is generated by plot.py at 2017-08-21 23:38:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.51 Mbit/s
95th percentile per-packet one-way delay: 82.043 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 0.51 Mbit/s
95th percentile per-packet one-way delay: 82.043 ms
Loss rate: 0.31%
```

Run 1: Report of KohoCC — Data Link



Run 2: Statistics of KohoCC

Start at: 2017-08-21 21:14:19

End at: 2017-08-21 21:14:49

Local clock offset: 2.463 ms

Remote clock offset: 6.872 ms

Below is generated by plot.py at 2017-08-21 23:38:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 78.283 ms

Loss rate: 0.31%

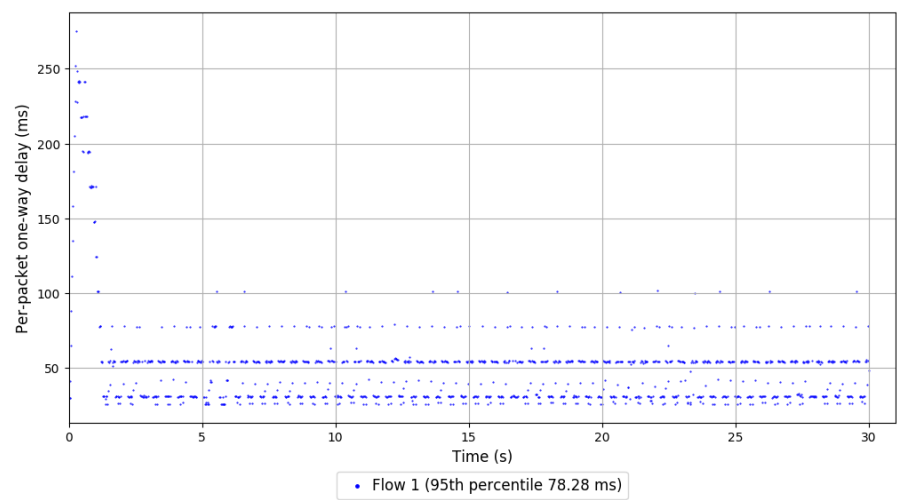
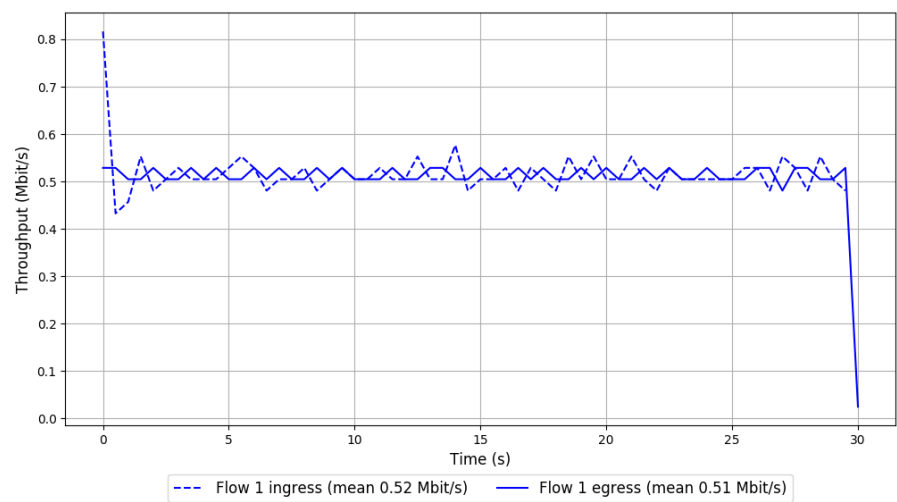
-- Flow 1:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 78.283 ms

Loss rate: 0.31%

Run 2: Report of KohoCC — Data Link



Run 3: Statistics of KohoCC

Start at: 2017-08-21 21:31:44

End at: 2017-08-21 21:32:14

Local clock offset: 2.631 ms

Remote clock offset: 6.904 ms

Below is generated by plot.py at 2017-08-21 23:38:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 77.754 ms

Loss rate: 0.31%

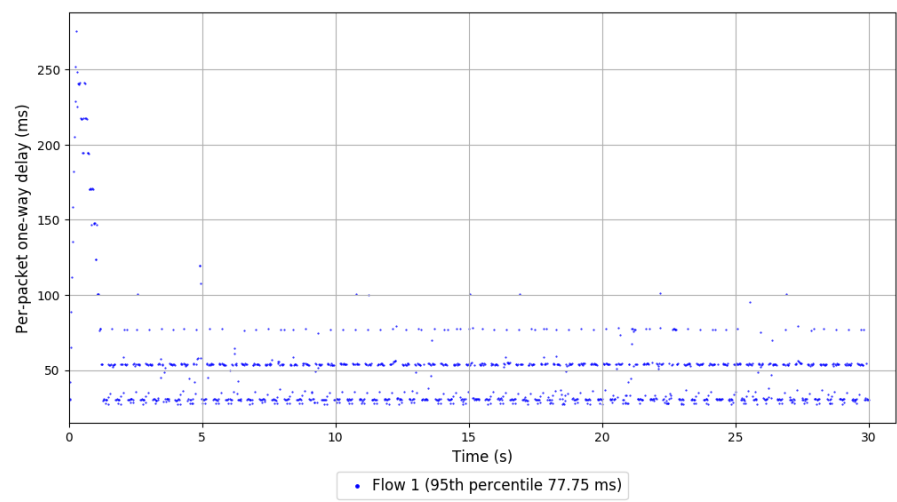
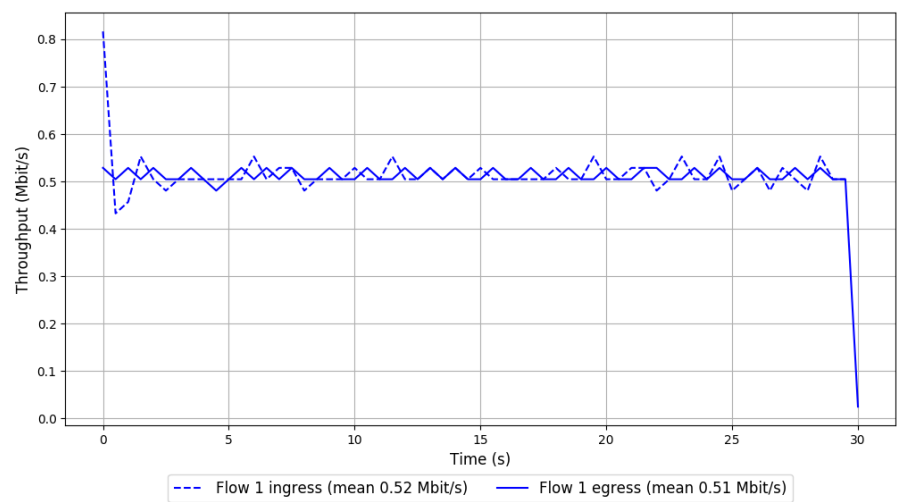
-- Flow 1:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 77.754 ms

Loss rate: 0.31%

Run 3: Report of KohoCC — Data Link



Run 4: Statistics of KohoCC

Start at: 2017-08-21 21:49:08

End at: 2017-08-21 21:49:38

Local clock offset: 2.317 ms

Remote clock offset: 6.851 ms

Below is generated by plot.py at 2017-08-21 23:38:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 77.832 ms

Loss rate: 0.23%

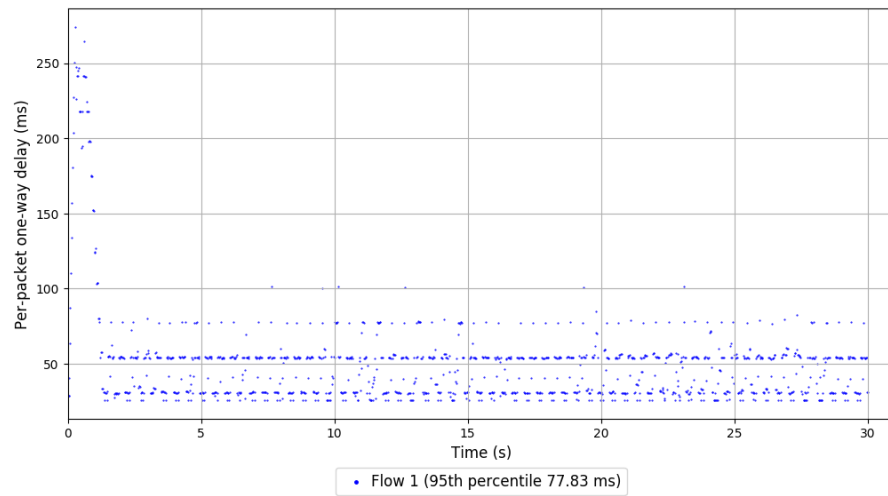
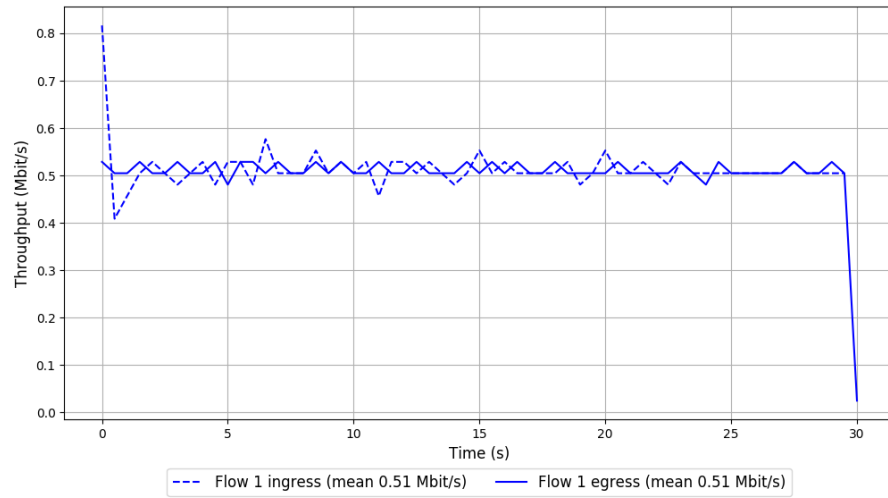
-- Flow 1:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 77.832 ms

Loss rate: 0.23%

Run 4: Report of KohoCC — Data Link



Run 5: Statistics of KohoCC

Start at: 2017-08-21 22:06:32

End at: 2017-08-21 22:07:02

Local clock offset: 1.117 ms

Remote clock offset: 6.764 ms

Below is generated by plot.py at 2017-08-21 23:38:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 77.727 ms

Loss rate: 0.39%

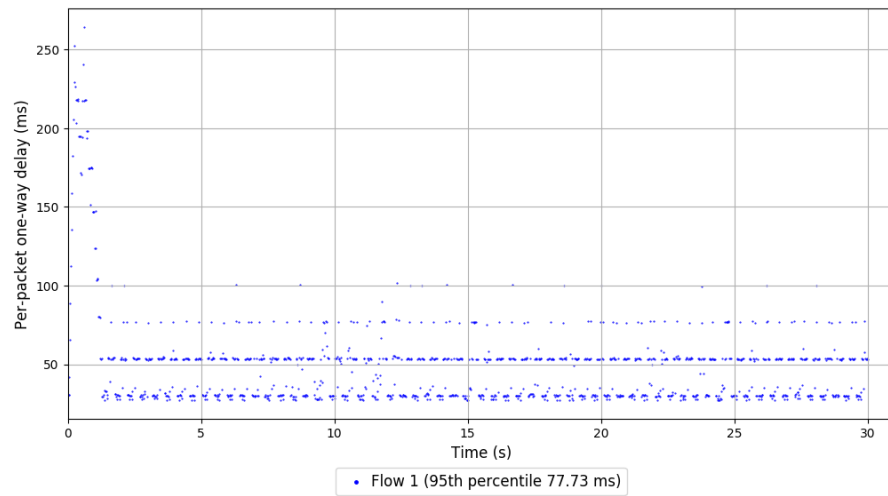
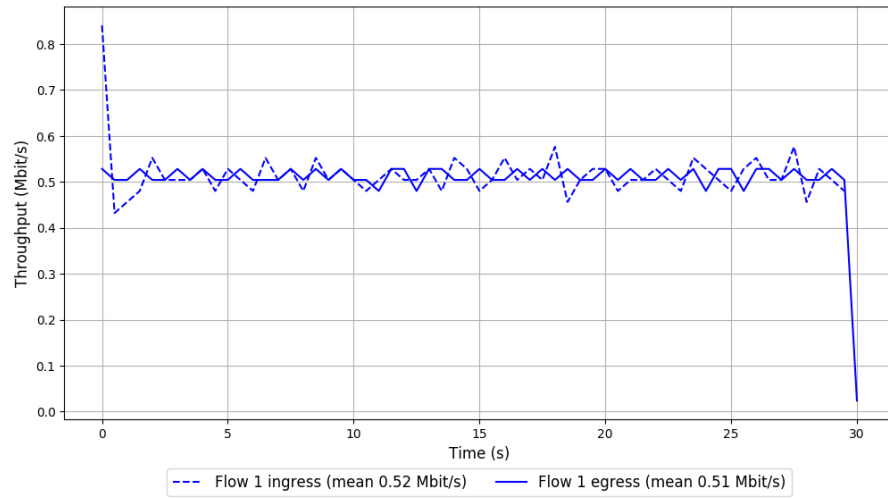
-- Flow 1:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 77.727 ms

Loss rate: 0.39%

Run 5: Report of KohoCC — Data Link



Run 6: Statistics of KohoCC

Start at: 2017-08-21 22:23:56

End at: 2017-08-21 22:24:26

Local clock offset: -1.484 ms

Remote clock offset: 6.933 ms

Below is generated by plot.py at 2017-08-21 23:38:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 80.816 ms

Loss rate: 0.31%

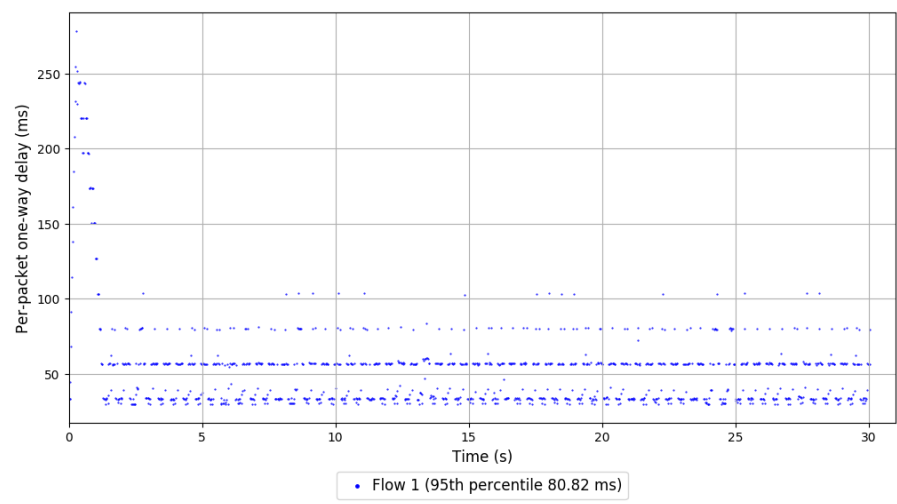
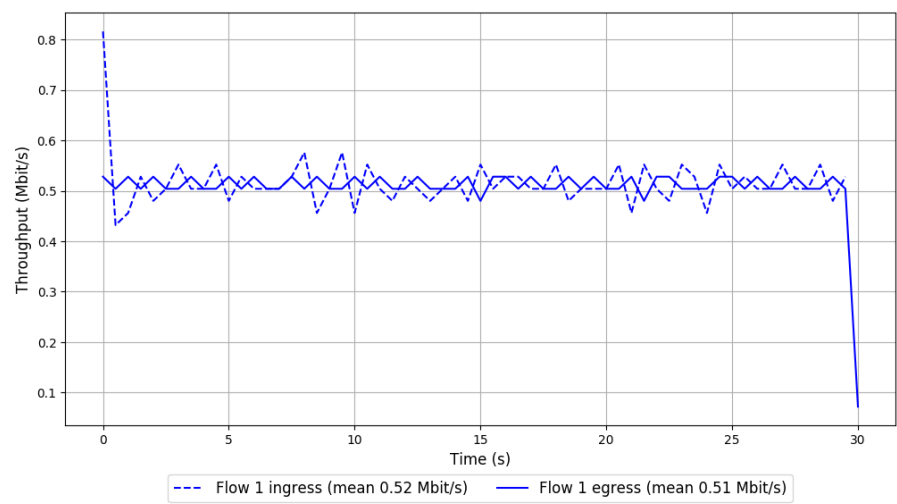
-- Flow 1:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 80.816 ms

Loss rate: 0.31%

Run 6: Report of KohoCC — Data Link



Run 7: Statistics of KohoCC

Start at: 2017-08-21 22:41:26

End at: 2017-08-21 22:41:56

Local clock offset: -1.536 ms

Remote clock offset: 7.768 ms

Below is generated by plot.py at 2017-08-21 23:38:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 82.551 ms

Loss rate: 0.31%

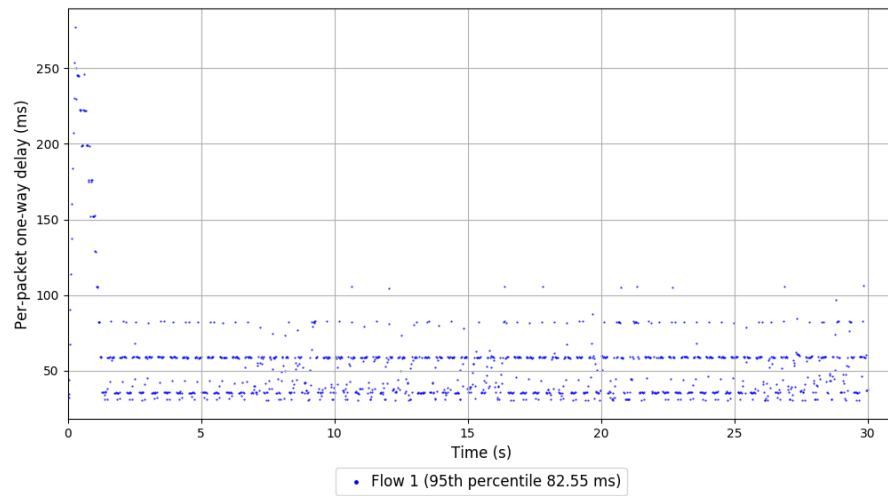
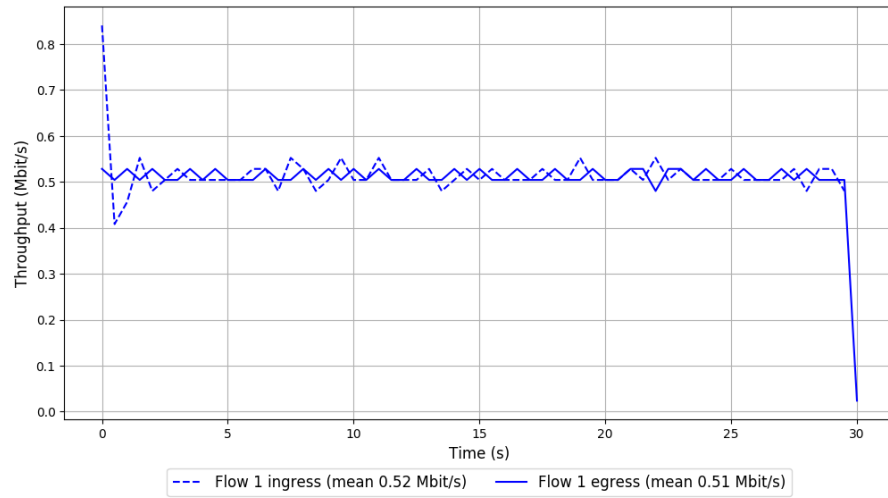
-- Flow 1:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 82.551 ms

Loss rate: 0.31%

Run 7: Report of KohoCC — Data Link



Run 8: Statistics of KohoCC

Start at: 2017-08-21 22:59:00

End at: 2017-08-21 22:59:30

Local clock offset: -0.162 ms

Remote clock offset: 7.016 ms

Below is generated by plot.py at 2017-08-21 23:38:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 81.778 ms

Loss rate: 0.31%

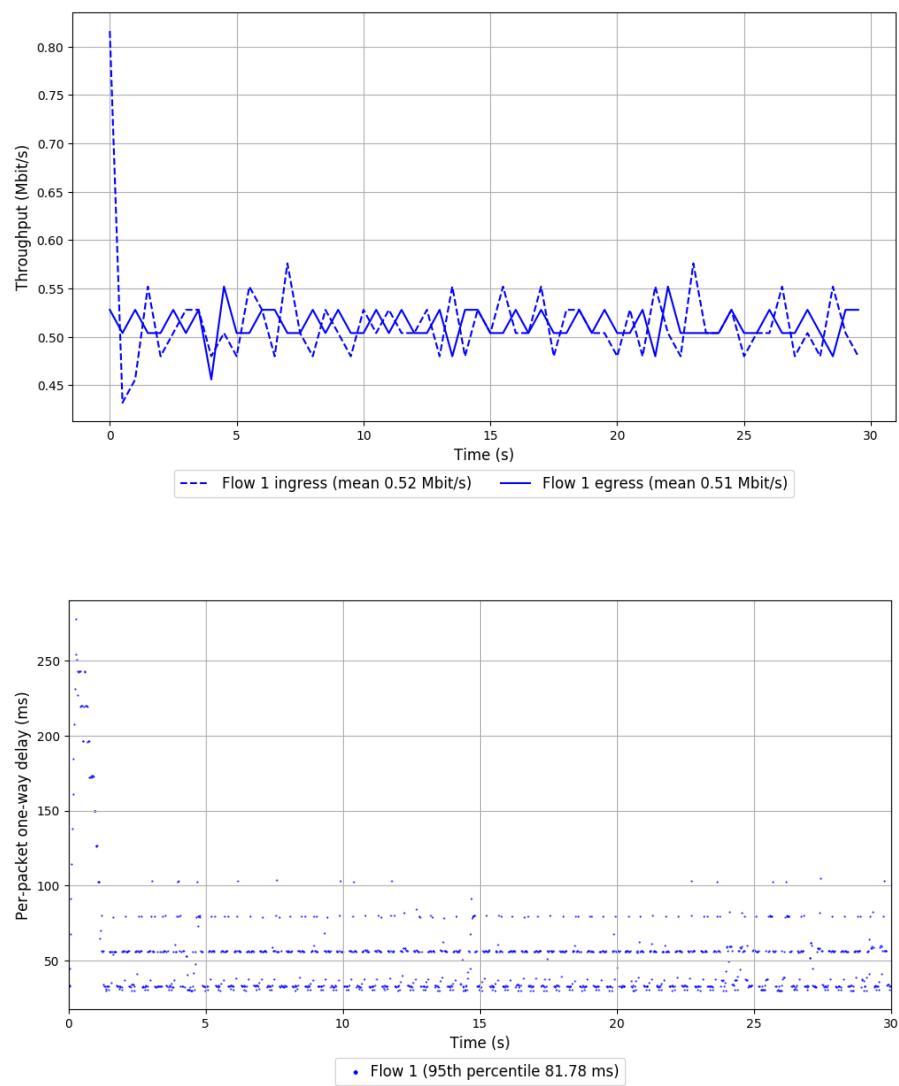
-- Flow 1:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 81.778 ms

Loss rate: 0.31%

Run 8: Report of KohoCC — Data Link



Run 9: Statistics of KohoCC

Start at: 2017-08-21 23:16:27

End at: 2017-08-21 23:16:58

Local clock offset: 0.891 ms

Remote clock offset: 6.658 ms

Below is generated by plot.py at 2017-08-21 23:38:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 88.069 ms

Loss rate: 0.31%

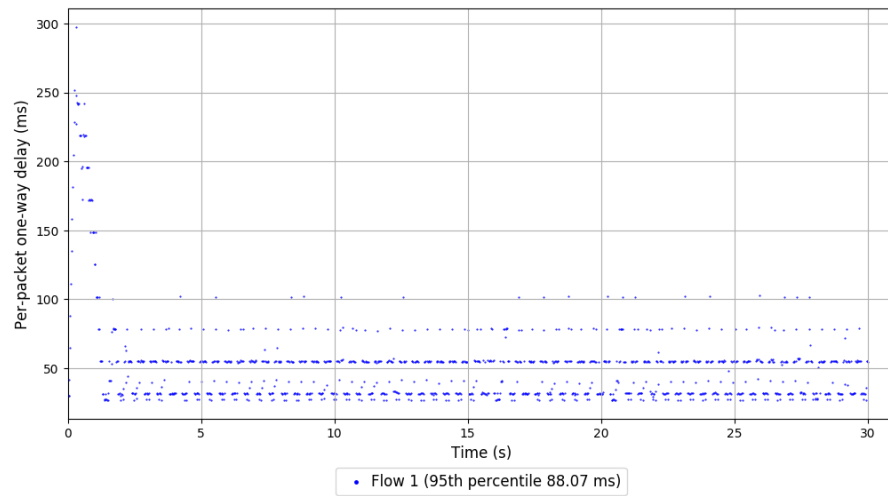
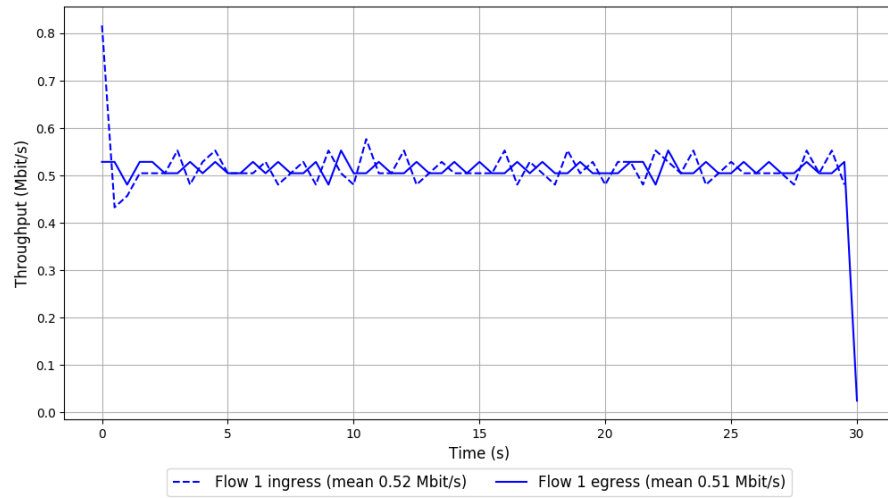
-- Flow 1:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 88.069 ms

Loss rate: 0.31%

Run 9: Report of KohoCC — Data Link



Run 10: Statistics of KohoCC

Start at: 2017-08-21 23:33:51

End at: 2017-08-21 23:34:21

Local clock offset: -0.139 ms

Remote clock offset: 6.89 ms

Below is generated by plot.py at 2017-08-21 23:38:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 80.411 ms

Loss rate: 0.39%

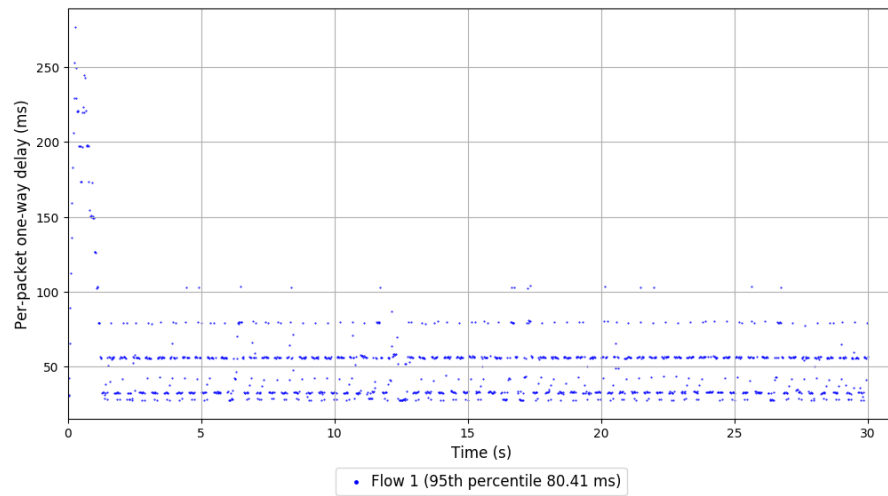
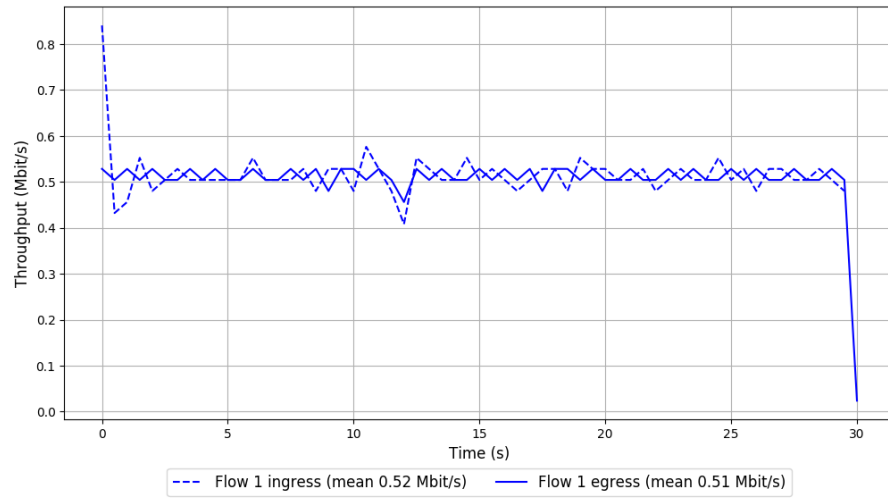
-- Flow 1:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 80.411 ms

Loss rate: 0.39%

Run 10: Report of KohoCC — Data Link

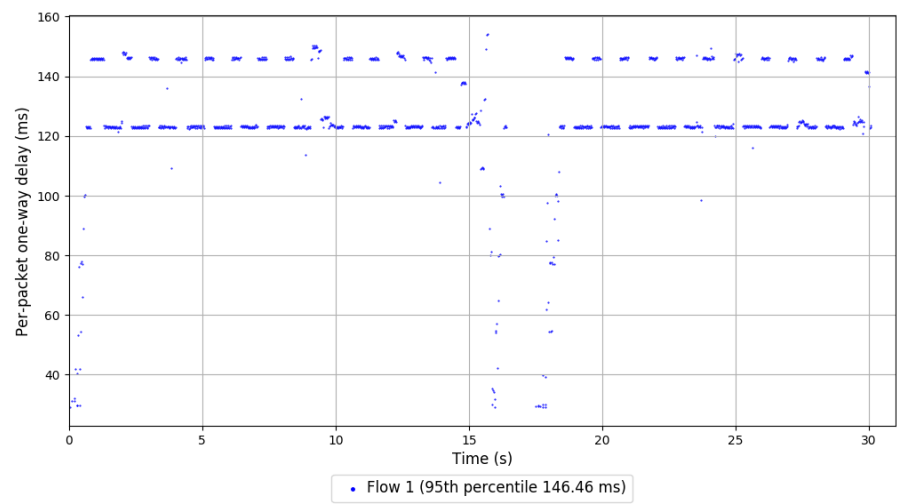
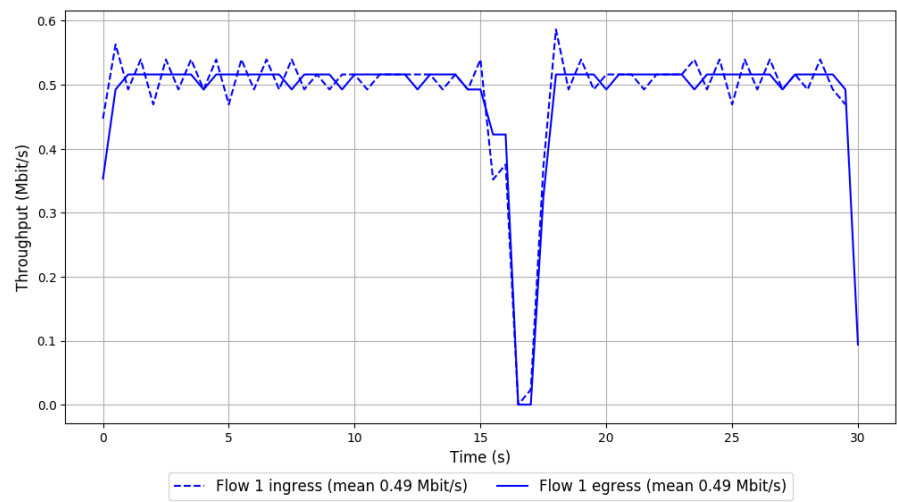


```
Run 1: Statistics of LEDBAT

Start at: 2017-08-21 20:44:32
End at: 2017-08-21 20:45:02
Local clock offset: 0.878 ms
Remote clock offset: 7.685 ms

# Below is generated by plot.py at 2017-08-21 23:38:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.49 Mbit/s
95th percentile per-packet one-way delay: 146.461 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 0.49 Mbit/s
95th percentile per-packet one-way delay: 146.461 ms
Loss rate: 0.16%
```


Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2017-08-21 21:01:56

End at: 2017-08-21 21:02:26

Local clock offset: 3.021 ms

Remote clock offset: 7.857 ms

Below is generated by plot.py at 2017-08-21 23:38:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 144.554 ms

Loss rate: 0.00%

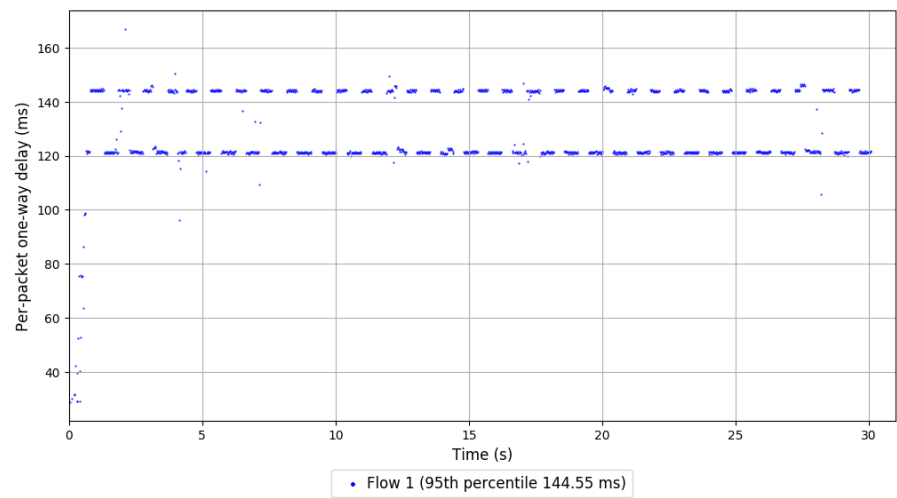
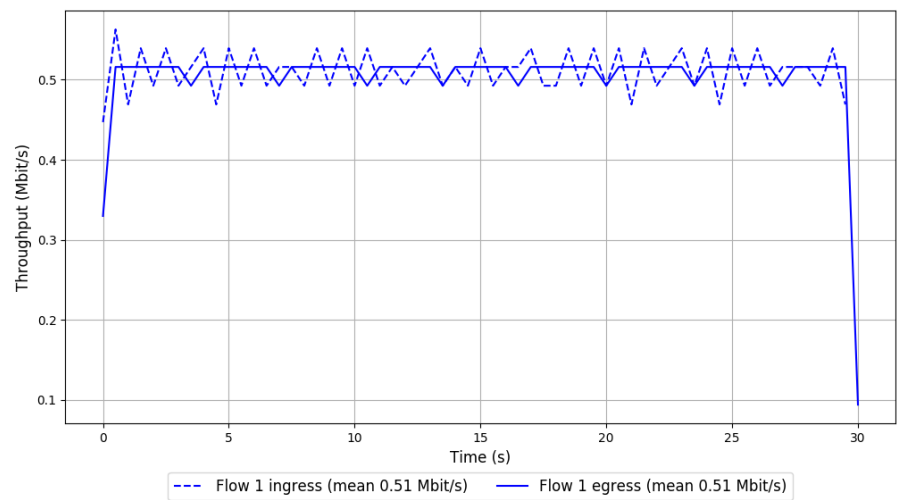
-- Flow 1:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 144.554 ms

Loss rate: 0.00%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2017-08-21 21:19:21

End at: 2017-08-21 21:19:51

Local clock offset: -0.954 ms

Remote clock offset: 6.996 ms

Below is generated by plot.py at 2017-08-21 23:38:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 147.302 ms

Loss rate: 0.00%

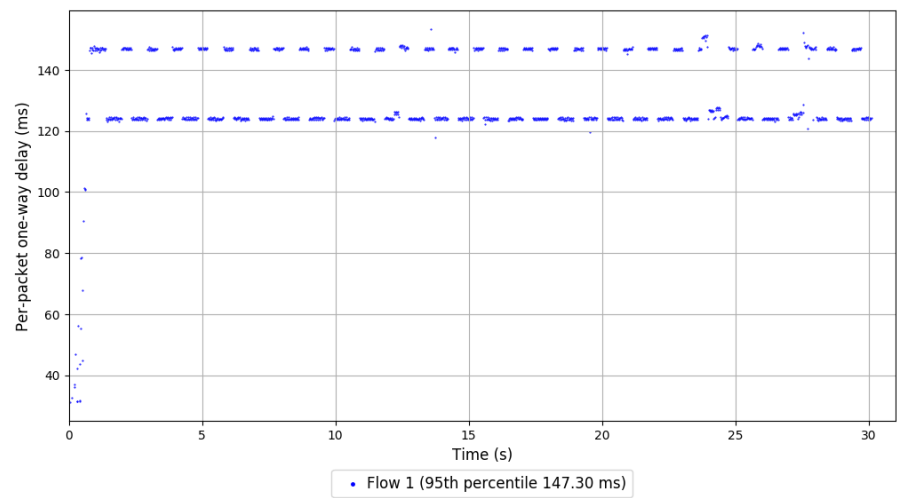
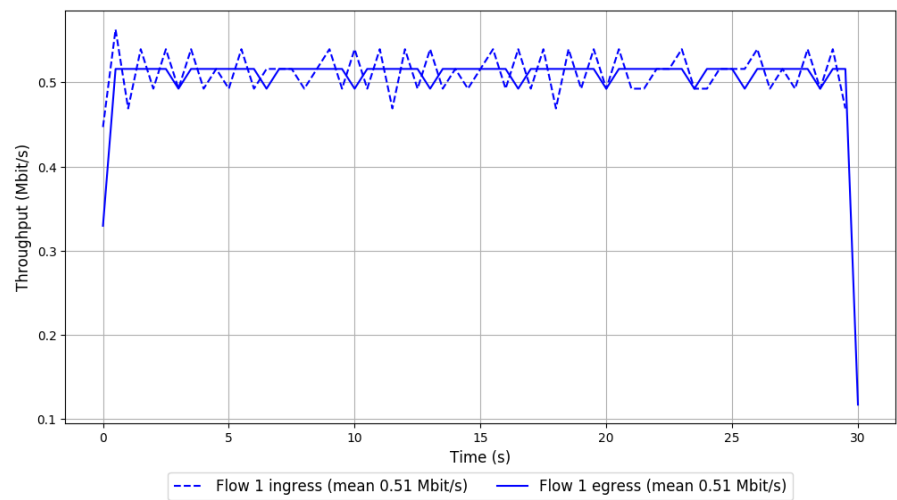
-- Flow 1:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 147.302 ms

Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2017-08-21 21:36:43

End at: 2017-08-21 21:37:13

Local clock offset: 1.833 ms

Remote clock offset: 7.833 ms

Below is generated by plot.py at 2017-08-21 23:38:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 144.014 ms

Loss rate: 0.08%

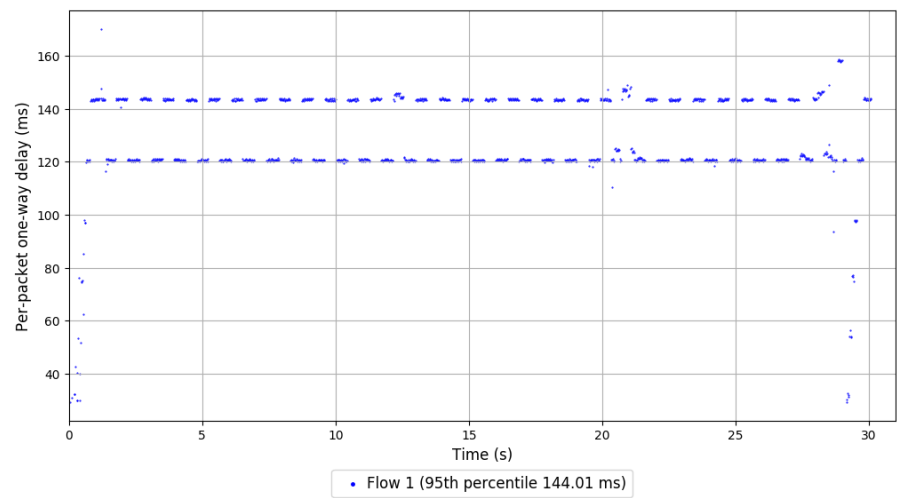
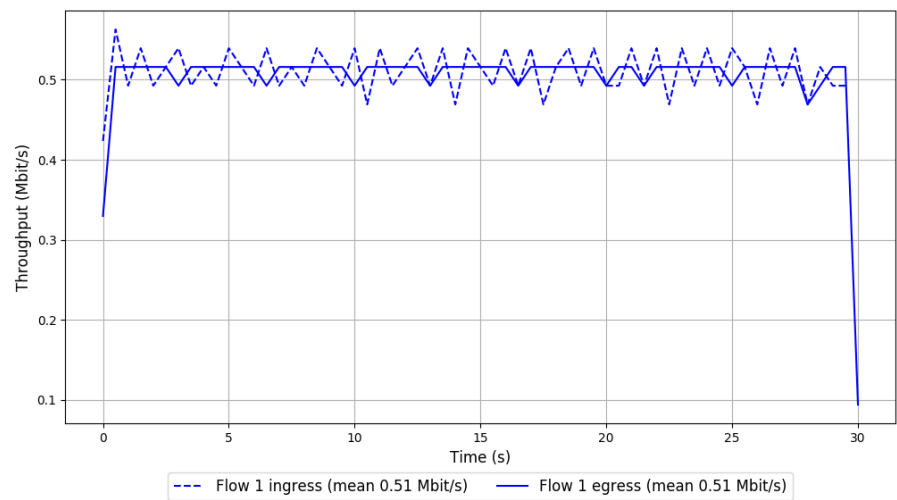
-- Flow 1:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 144.014 ms

Loss rate: 0.08%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2017-08-21 21:54:07

End at: 2017-08-21 21:54:37

Local clock offset: -0.536 ms

Remote clock offset: 7.795 ms

Below is generated by plot.py at 2017-08-21 23:38:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 146.105 ms

Loss rate: 0.00%

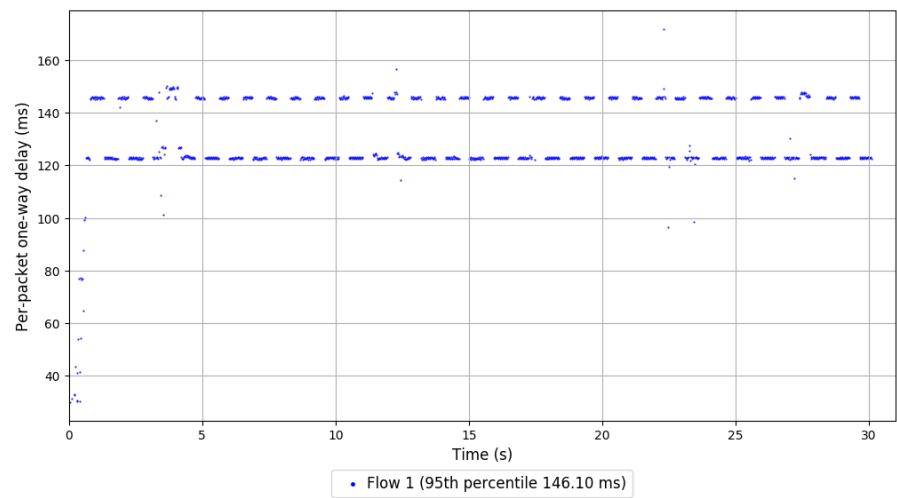
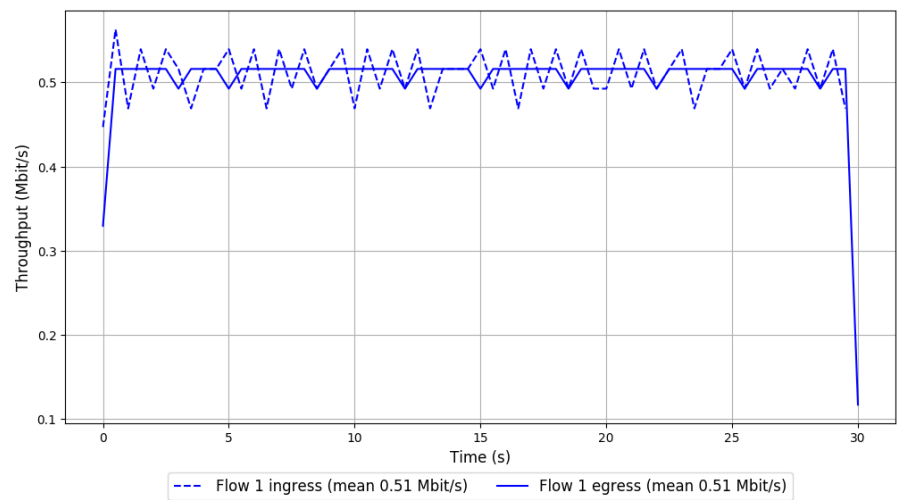
-- Flow 1:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 146.105 ms

Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2017-08-21 22:11:31

End at: 2017-08-21 22:12:01

Local clock offset: 2.815 ms

Remote clock offset: 6.764 ms

Below is generated by plot.py at 2017-08-21 23:38:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 143.309 ms

Loss rate: 0.00%

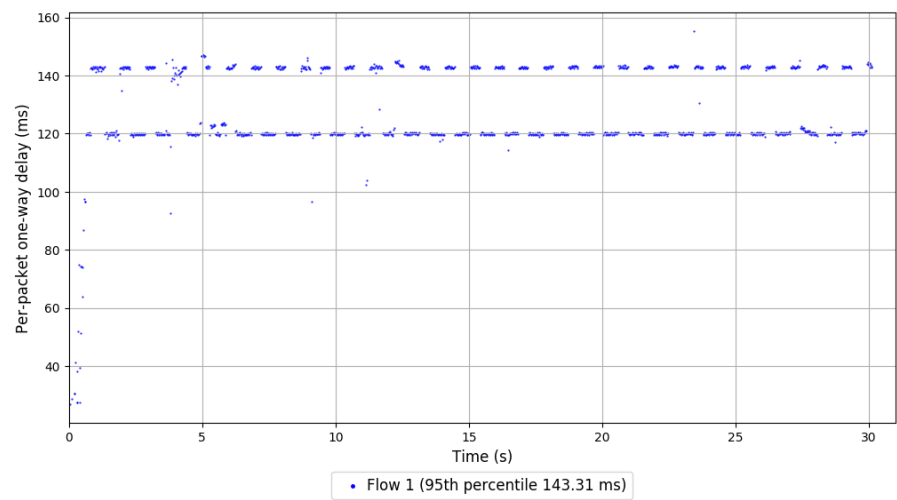
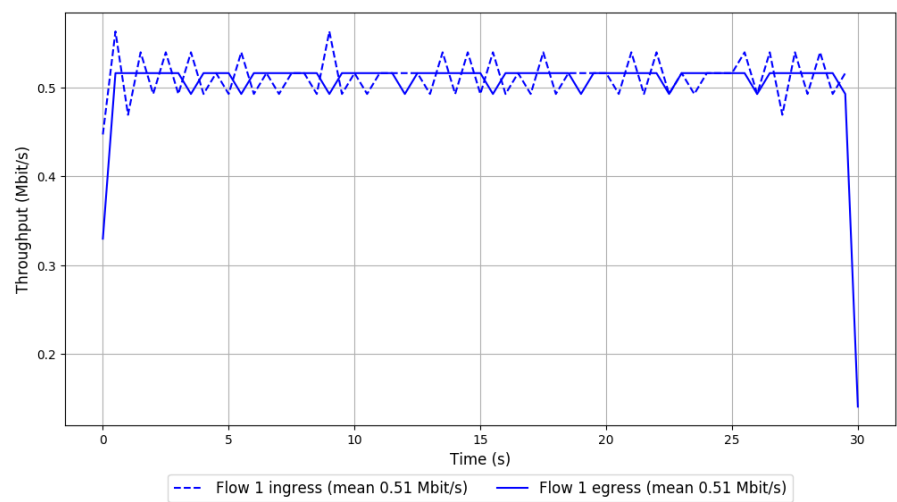
-- Flow 1:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 143.309 ms

Loss rate: 0.00%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2017-08-21 22:28:55

End at: 2017-08-21 22:29:26

Local clock offset: 2.083 ms

Remote clock offset: 7.09 ms

Below is generated by plot.py at 2017-08-21 23:38:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 144.216 ms

Loss rate: 0.00%

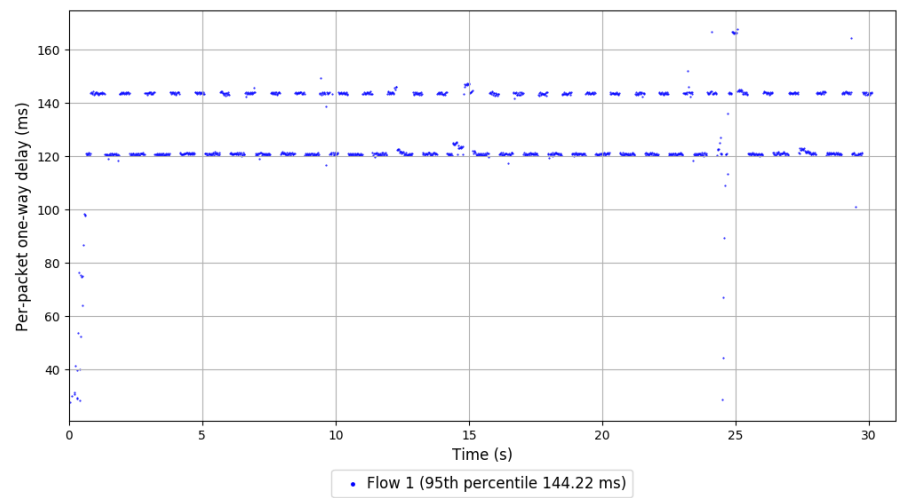
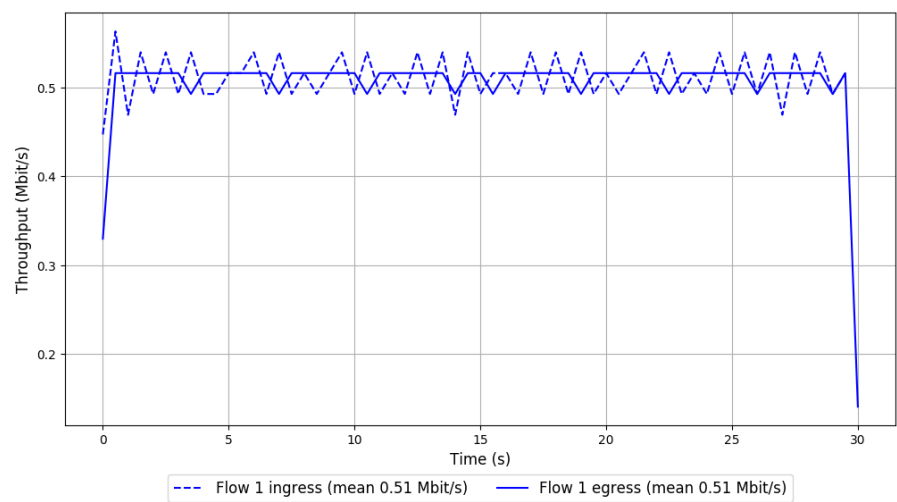
-- Flow 1:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 144.216 ms

Loss rate: 0.00%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2017-08-21 22:46:26

End at: 2017-08-21 22:46:56

Local clock offset: -0.329 ms

Remote clock offset: 6.564 ms

Below is generated by plot.py at 2017-08-21 23:38:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 144.277 ms

Loss rate: 0.00%

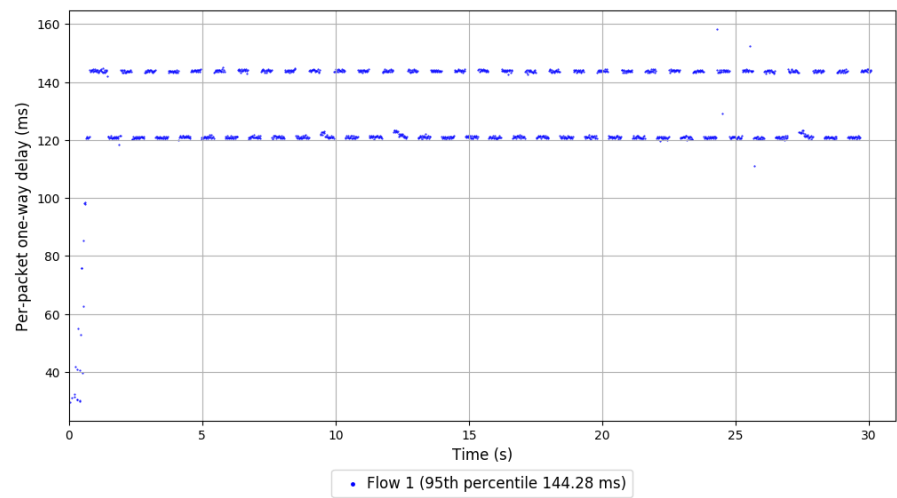
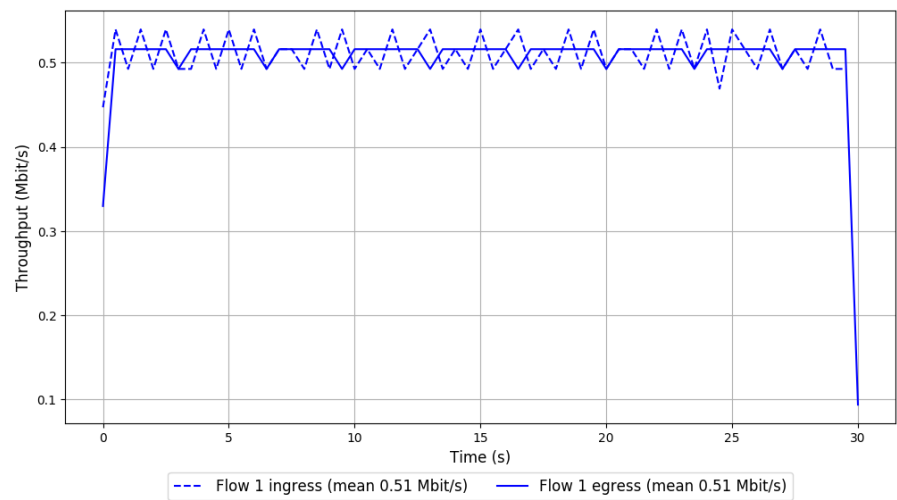
-- Flow 1:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 144.277 ms

Loss rate: 0.00%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2017-08-21 23:04:01

End at: 2017-08-21 23:04:31

Local clock offset: -1.724 ms

Remote clock offset: 6.831 ms

Below is generated by plot.py at 2017-08-21 23:38:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 147.441 ms

Loss rate: 0.00%

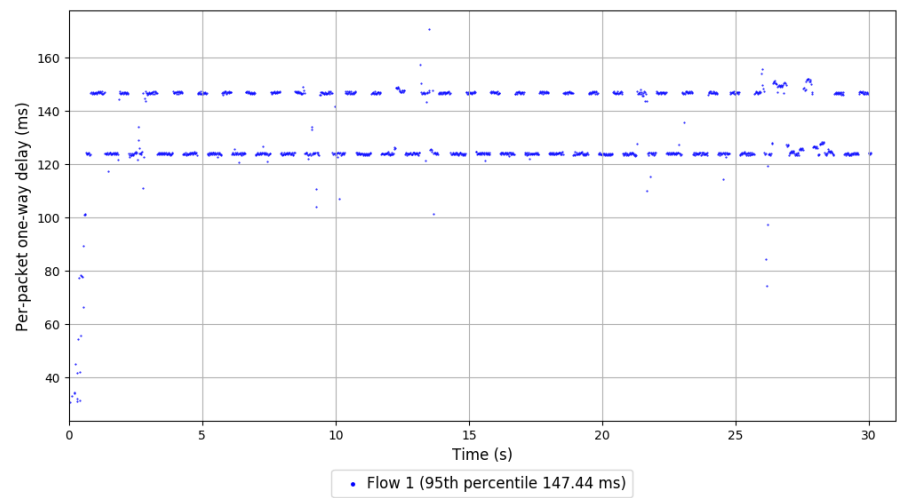
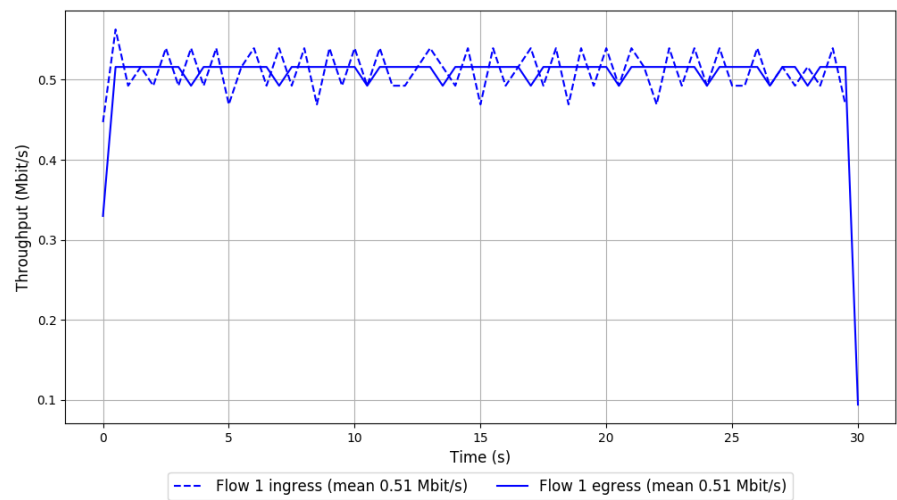
-- Flow 1:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 147.441 ms

Loss rate: 0.00%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2017-08-21 23:21:27

End at: 2017-08-21 23:21:57

Local clock offset: 0.068 ms

Remote clock offset: 7.164 ms

Below is generated by plot.py at 2017-08-21 23:38:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 145.414 ms

Loss rate: 0.00%

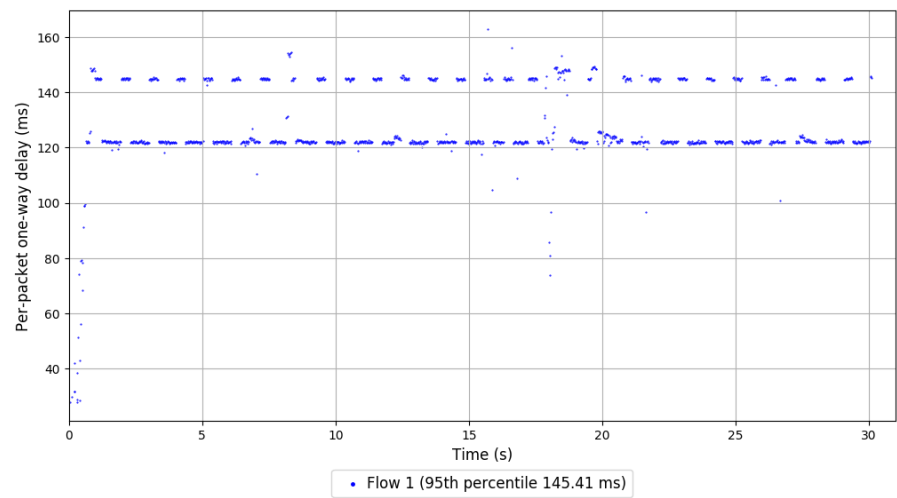
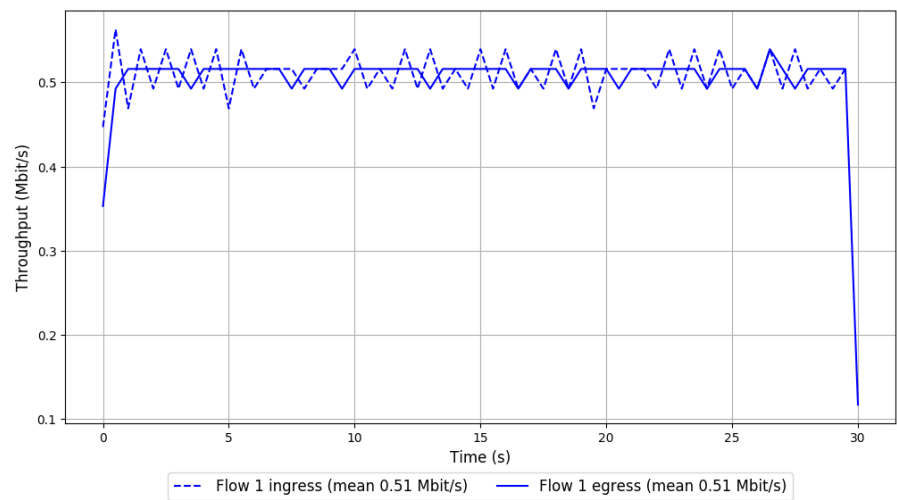
-- Flow 1:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 145.414 ms

Loss rate: 0.00%

Run 10: Report of LEDBAT — Data Link



Run 1: Statistics of PCC

Start at: 2017-08-21 20:51:55

End at: 2017-08-21 20:52:25

Local clock offset: 3.943 ms

Remote clock offset: 7.043 ms

Below is generated by plot.py at 2017-08-21 23:38:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 264.769 ms

Loss rate: 81.45%

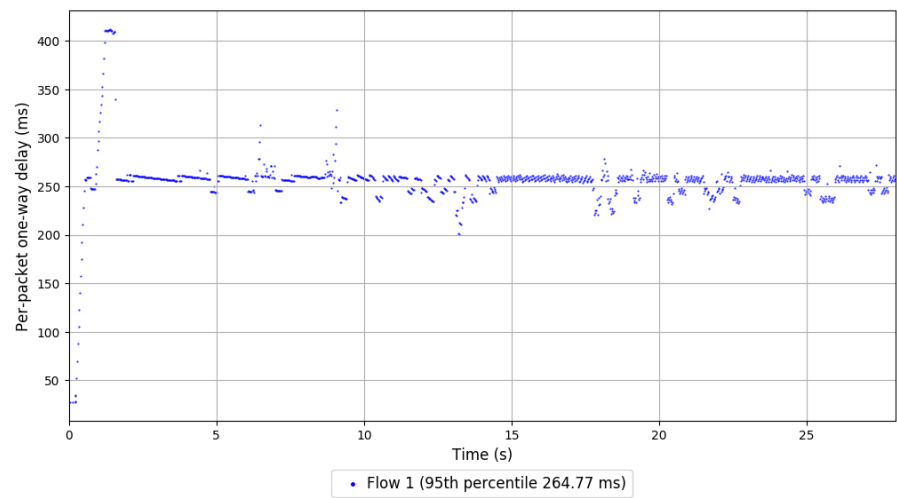
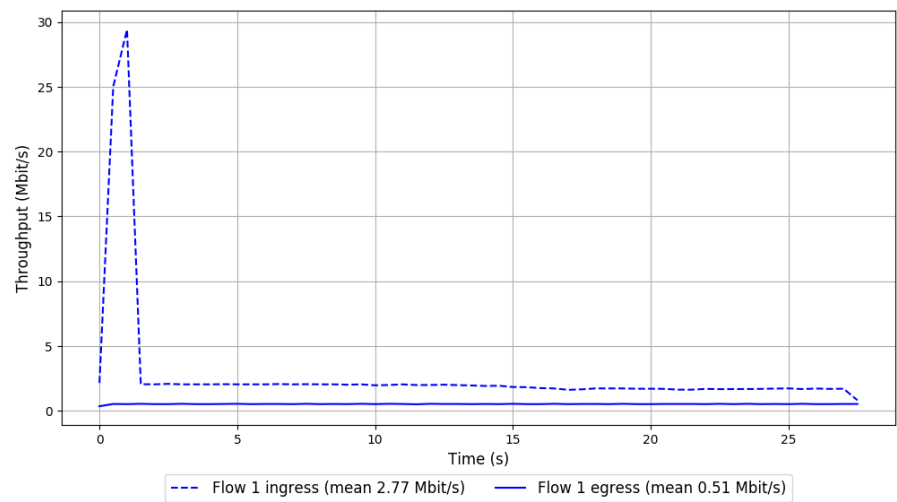
-- Flow 1:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 264.769 ms

Loss rate: 81.45%

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2017-08-21 21:09:23

End at: 2017-08-21 21:09:53

Local clock offset: -0.125 ms

Remote clock offset: 7.754 ms

Below is generated by plot.py at 2017-08-21 23:38:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.50 Mbit/s

95th percentile per-packet one-way delay: 265.071 ms

Loss rate: 73.89%

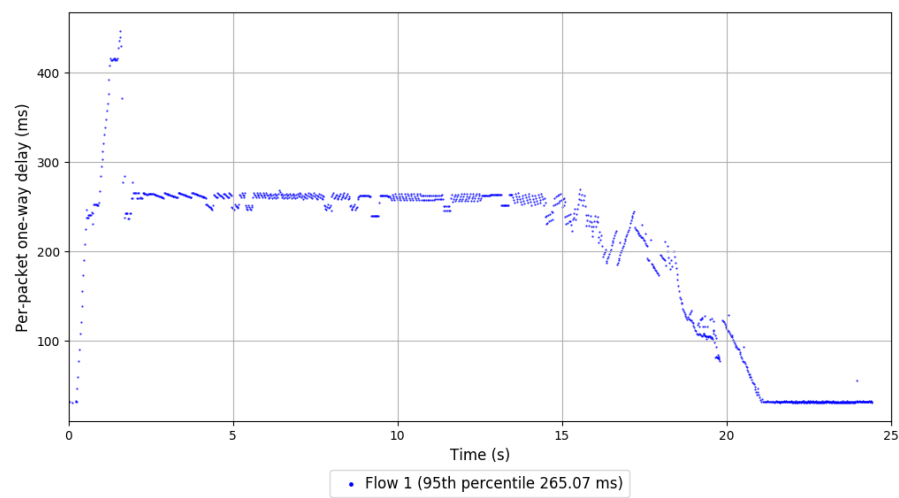
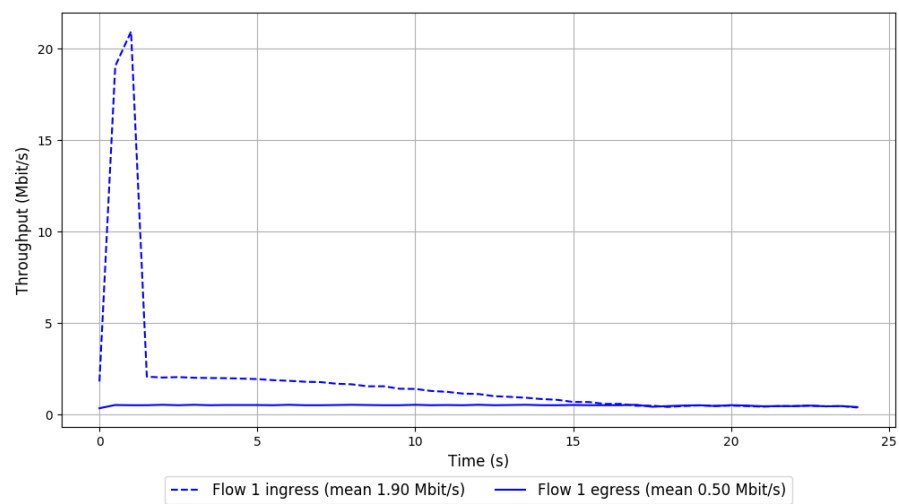
-- Flow 1:

Average throughput: 0.50 Mbit/s

95th percentile per-packet one-way delay: 265.071 ms

Loss rate: 73.89%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2017-08-21 21:26:46

End at: 2017-08-21 21:27:16

Local clock offset: -1.534 ms

Remote clock offset: 7.235 ms

Below is generated by plot.py at 2017-08-21 23:38:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 268.810 ms

Loss rate: 73.31%

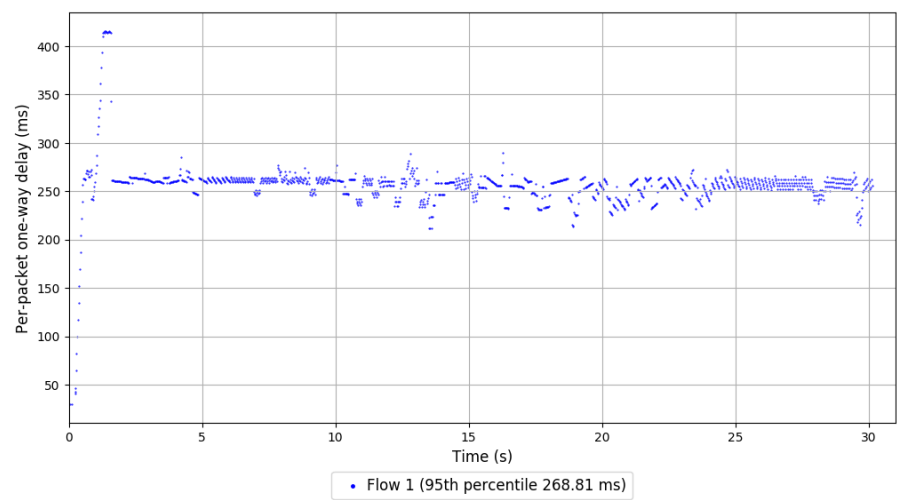
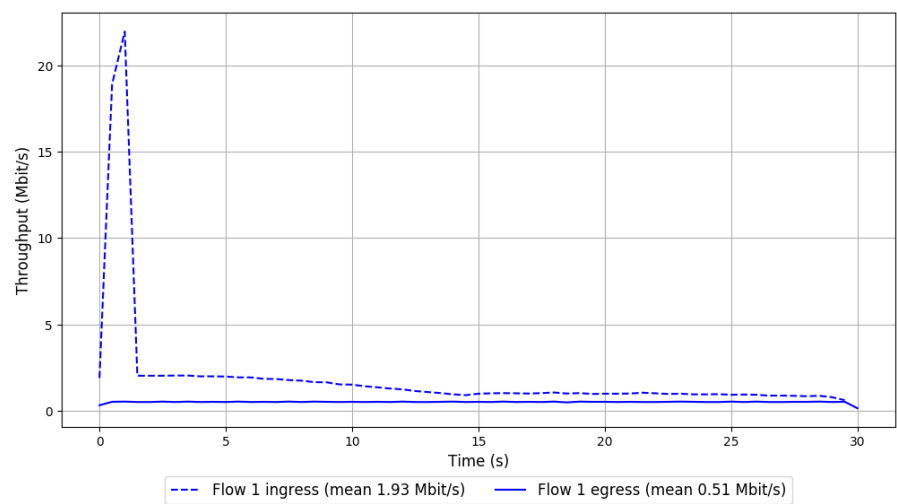
-- Flow 1:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 268.810 ms

Loss rate: 73.31%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2017-08-21 21:44:09

End at: 2017-08-21 21:44:39

Local clock offset: 2.782 ms

Remote clock offset: 7.048 ms

Below is generated by plot.py at 2017-08-21 23:38:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 259.761 ms

Loss rate: 78.95%

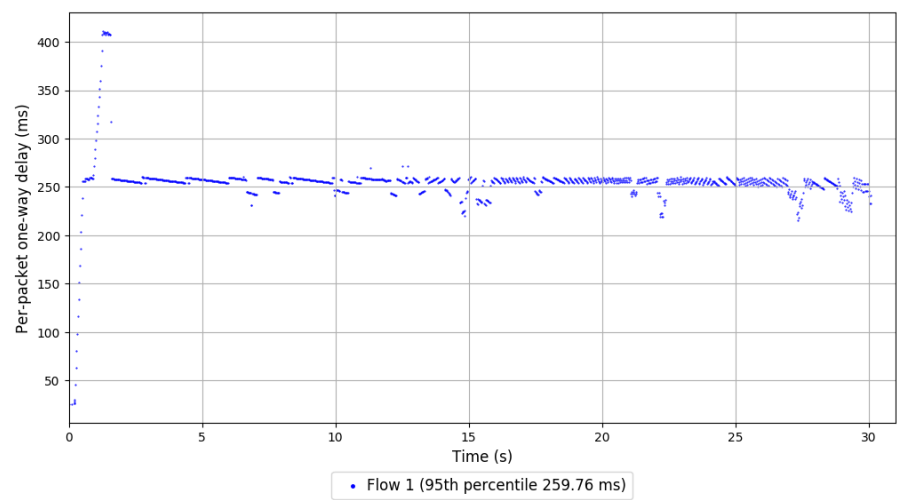
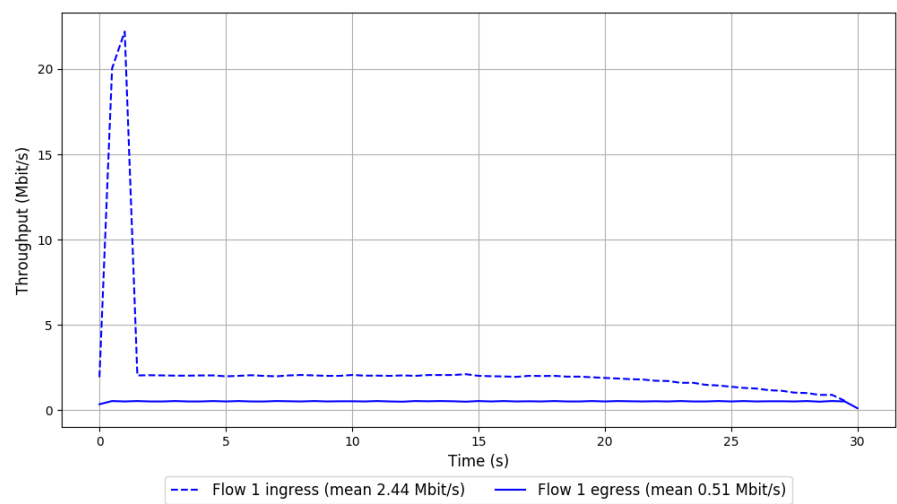
-- Flow 1:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 259.761 ms

Loss rate: 78.95%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2017-08-21 22:01:33

End at: 2017-08-21 22:02:03

Local clock offset: -1.388 ms

Remote clock offset: 8.562 ms

Below is generated by plot.py at 2017-08-21 23:38:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 267.412 ms

Loss rate: 79.02%

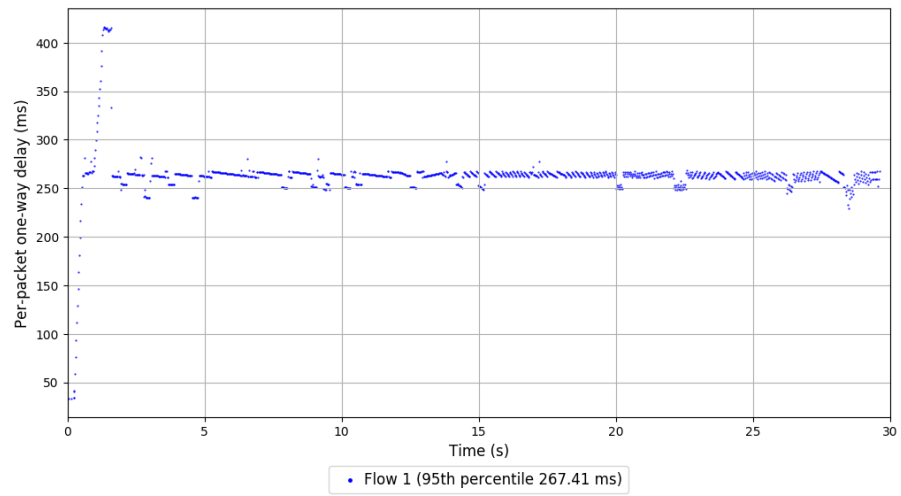
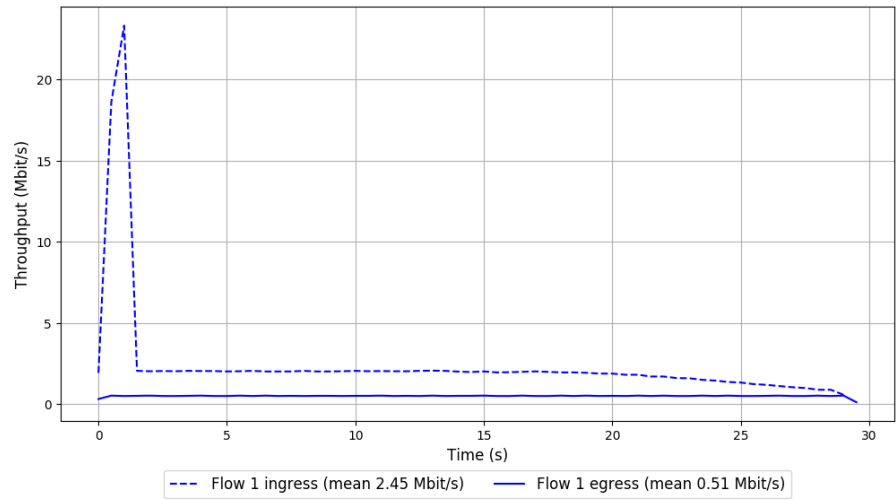
-- Flow 1:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 267.412 ms

Loss rate: 79.02%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2017-08-21 22:18:57

End at: 2017-08-21 22:19:27

Local clock offset: 0.886 ms

Remote clock offset: 7.21 ms

Below is generated by plot.py at 2017-08-21 23:38:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 263.925 ms

Loss rate: 81.07%

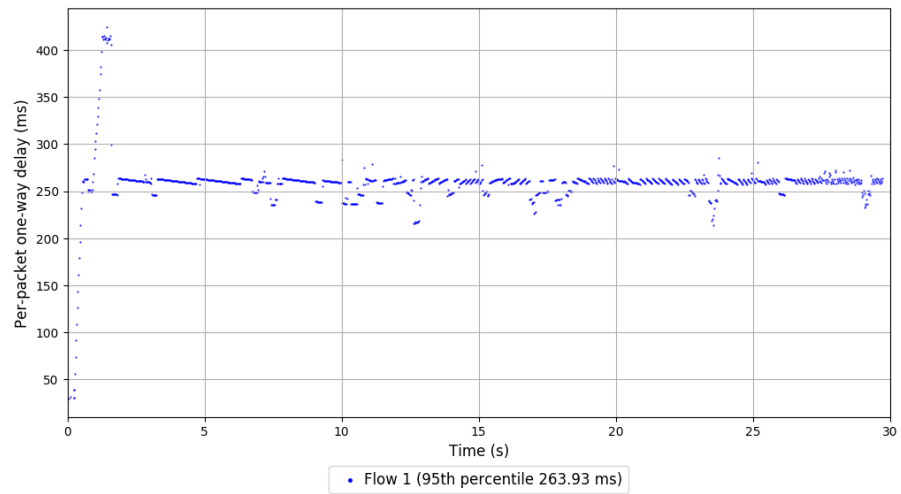
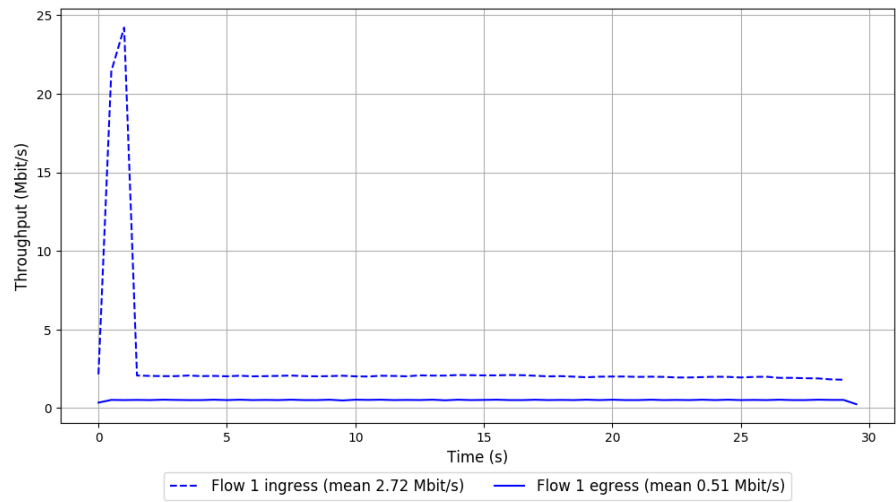
-- Flow 1:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 263.925 ms

Loss rate: 81.07%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2017-08-21 22:36:24

End at: 2017-08-21 22:36:54

Local clock offset: 1.719 ms

Remote clock offset: 7.669 ms

Below is generated by plot.py at 2017-08-21 23:38:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 265.191 ms

Loss rate: 79.83%

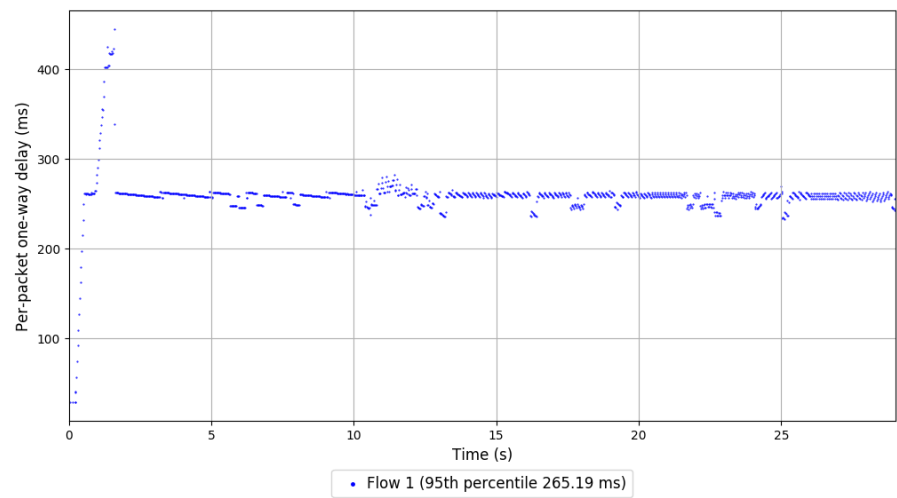
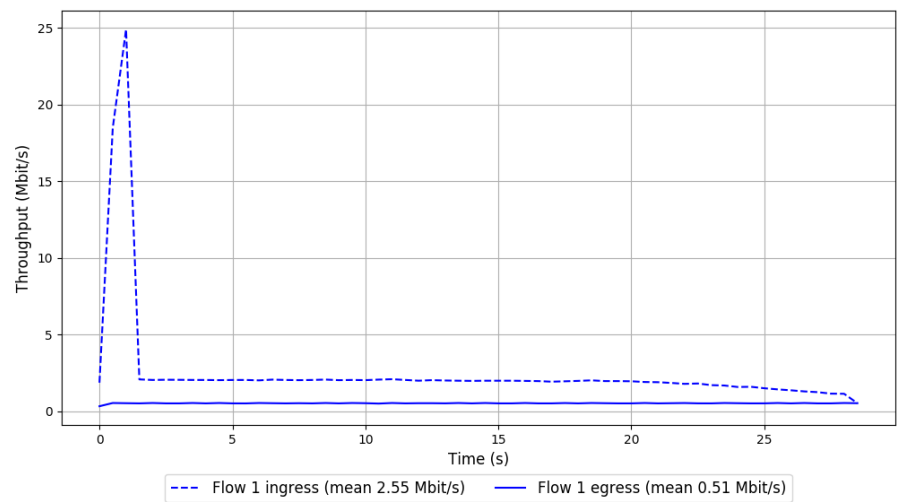
-- Flow 1:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 265.191 ms

Loss rate: 79.83%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2017-08-21 22:53:54

End at: 2017-08-21 22:54:24

Local clock offset: 2.146 ms

Remote clock offset: 7.659 ms

Below is generated by plot.py at 2017-08-21 23:38:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 271.668 ms

Loss rate: 77.26%

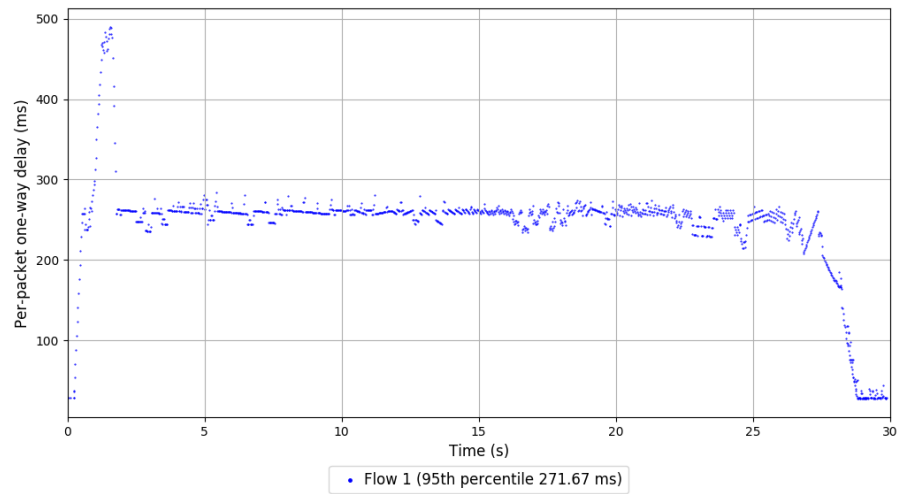
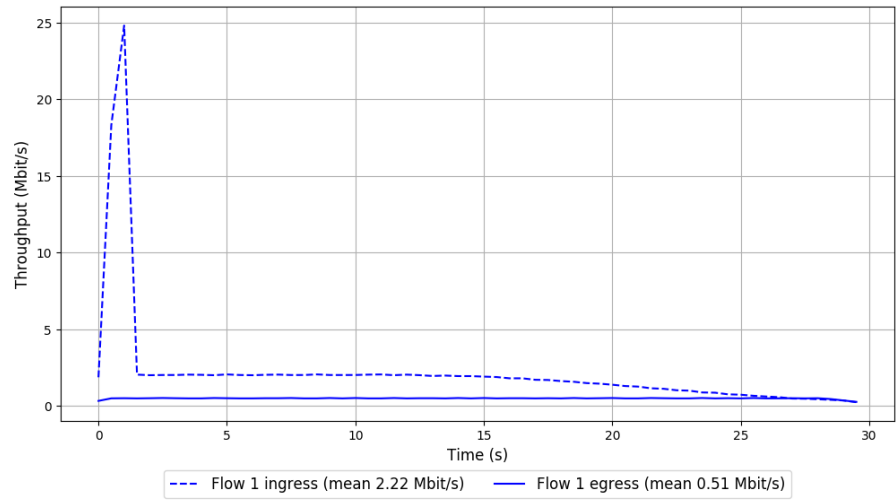
-- Flow 1:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 271.668 ms

Loss rate: 77.26%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2017-08-21 23:11:27

End at: 2017-08-21 23:11:57

Local clock offset: 0.289 ms

Remote clock offset: 7.651 ms

Below is generated by plot.py at 2017-08-21 23:38:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 264.269 ms

Loss rate: 81.28%

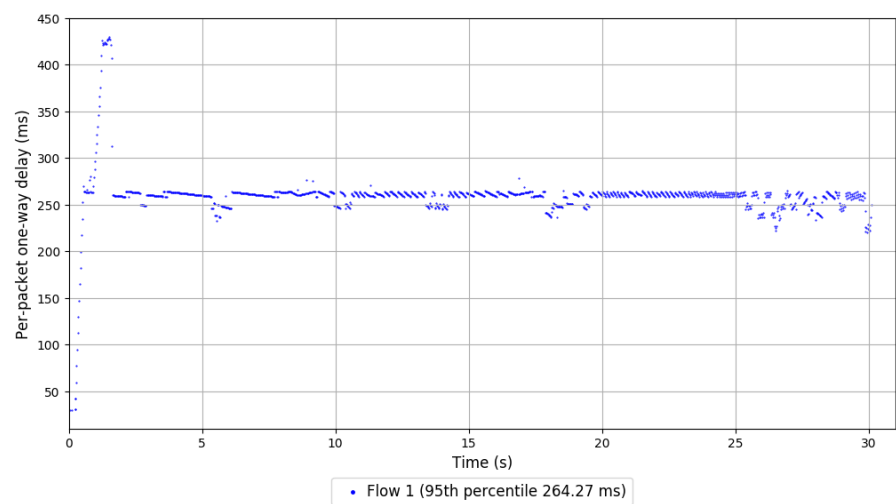
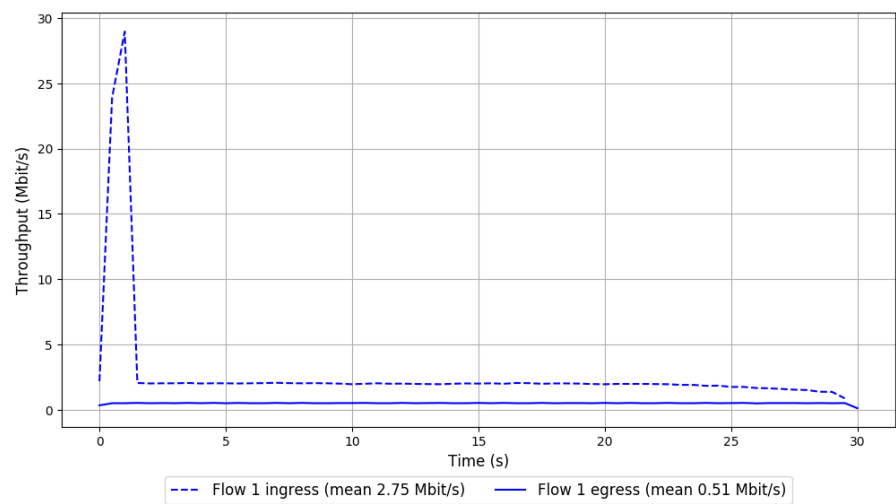
-- Flow 1:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 264.269 ms

Loss rate: 81.28%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2017-08-21 23:28:53

End at: 2017-08-21 23:29:23

Local clock offset: -0.946 ms

Remote clock offset: 7.062 ms

Below is generated by plot.py at 2017-08-21 23:38:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 262.993 ms

Loss rate: 79.04%

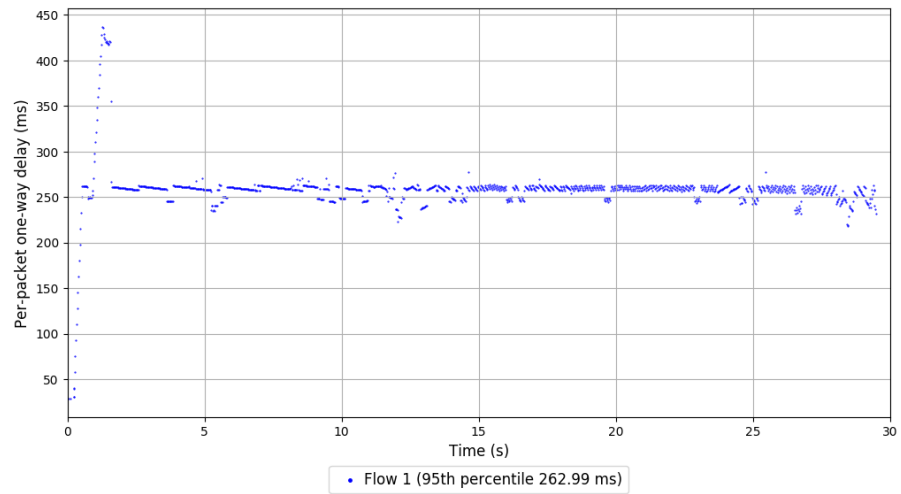
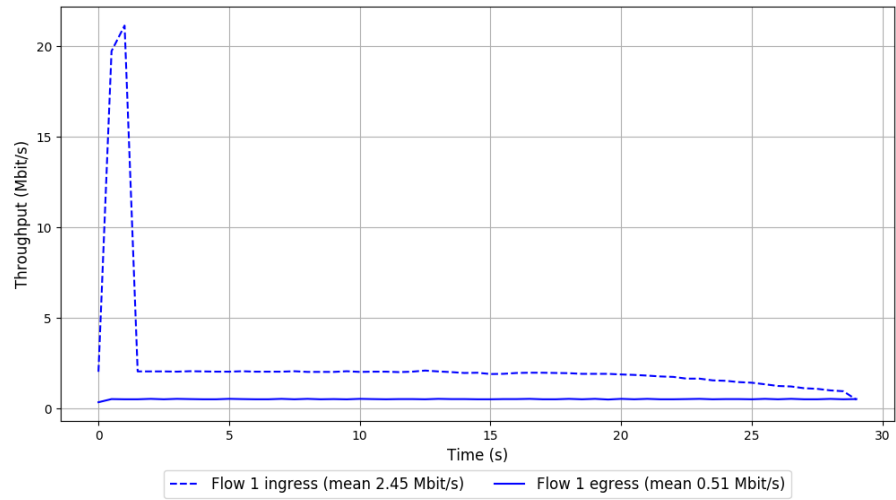
-- Flow 1:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 262.993 ms

Loss rate: 79.04%

Run 10: Report of PCC — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2017-08-21 20:53:10

End at: 2017-08-21 20:53:40

Local clock offset: -0.852 ms

Remote clock offset: 6.772 ms

Below is generated by plot.py at 2017-08-21 23:38:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 248.616 ms

Loss rate: 14.55%

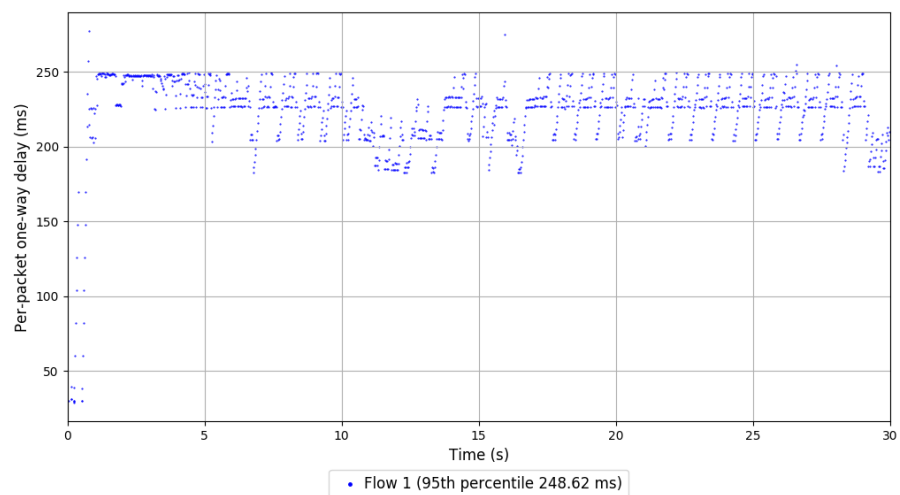
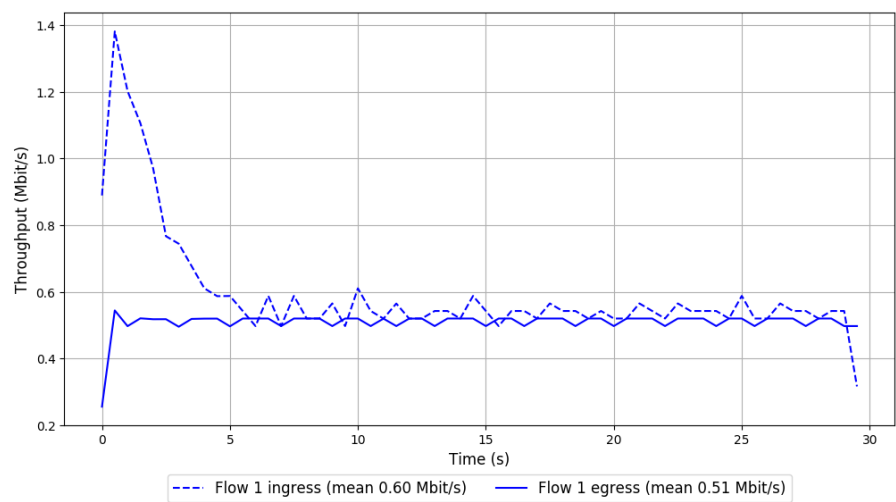
-- Flow 1:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 248.616 ms

Loss rate: 14.55%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2017-08-21 21:10:36

End at: 2017-08-21 21:11:06

Local clock offset: 2.468 ms

Remote clock offset: 7.305 ms

Below is generated by plot.py at 2017-08-21 23:38:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 244.416 ms

Loss rate: 15.14%

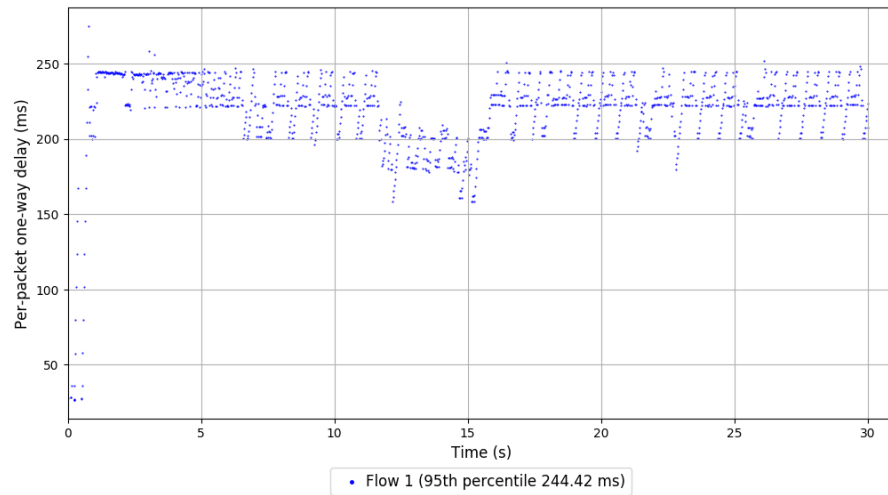
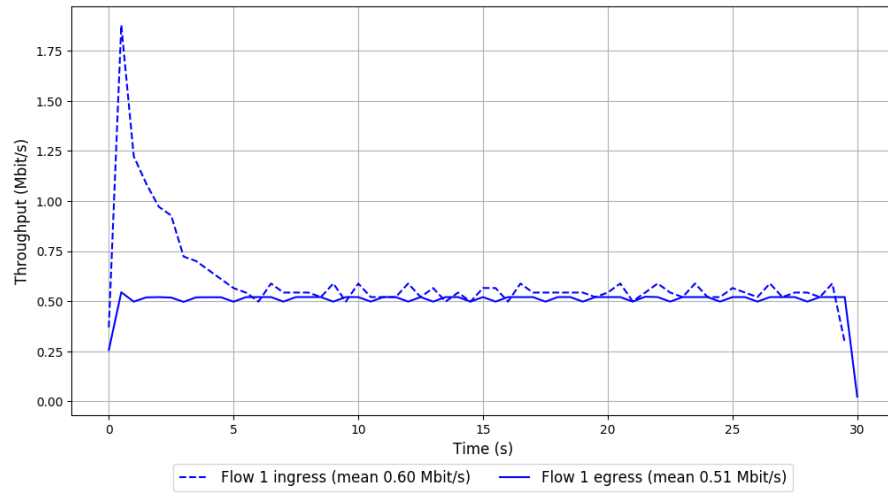
-- Flow 1:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 244.416 ms

Loss rate: 15.14%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2017-08-21 21:28:01

End at: 2017-08-21 21:28:31

Local clock offset: 2.631 ms

Remote clock offset: 7.611 ms

Below is generated by plot.py at 2017-08-21 23:38:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 244.577 ms

Loss rate: 15.06%

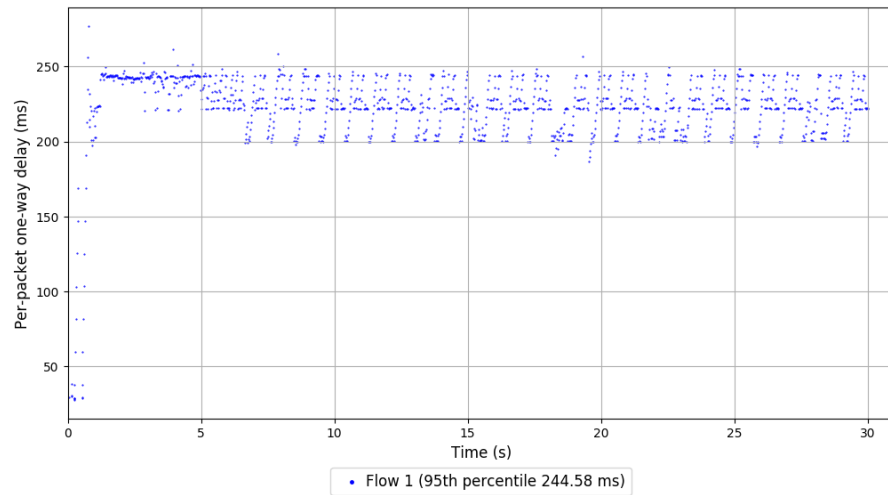
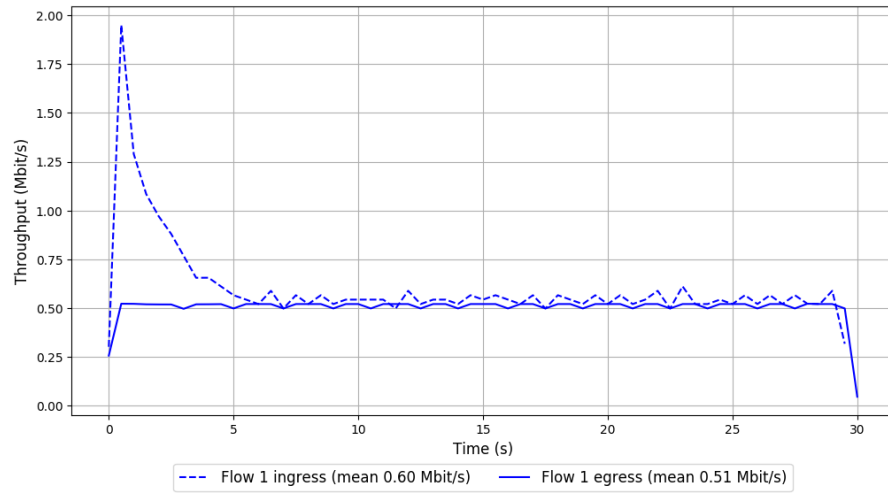
-- Flow 1:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 244.577 ms

Loss rate: 15.06%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2017-08-21 21:45:24

End at: 2017-08-21 21:45:54

Local clock offset: 2.63 ms

Remote clock offset: 6.901 ms

Below is generated by plot.py at 2017-08-21 23:38:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 243.702 ms

Loss rate: 14.91%

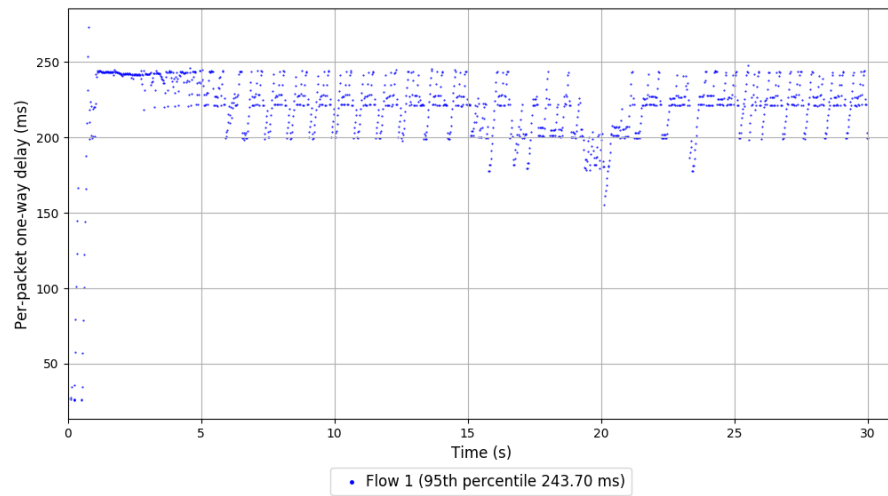
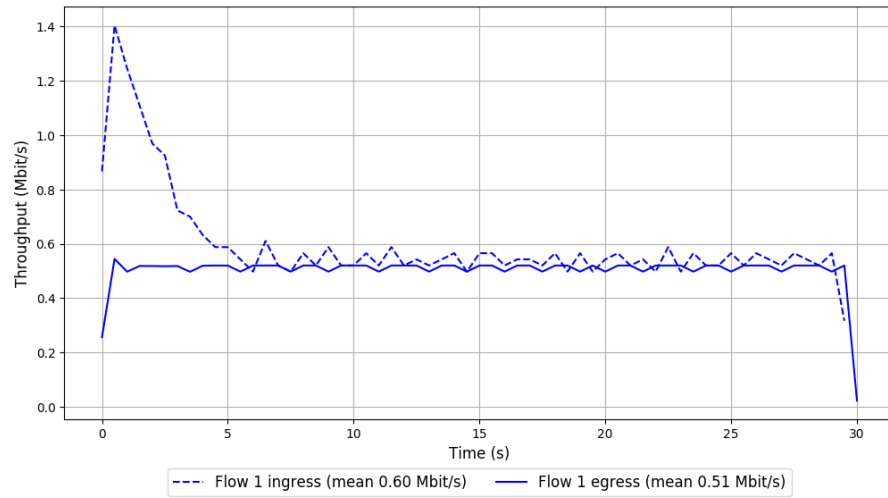
-- Flow 1:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 243.702 ms

Loss rate: 14.91%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2017-08-21 22:02:49

End at: 2017-08-21 22:03:19

Local clock offset: -0.659 ms

Remote clock offset: 7.348 ms

Below is generated by plot.py at 2017-08-21 23:38:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 248.612 ms

Loss rate: 14.76%

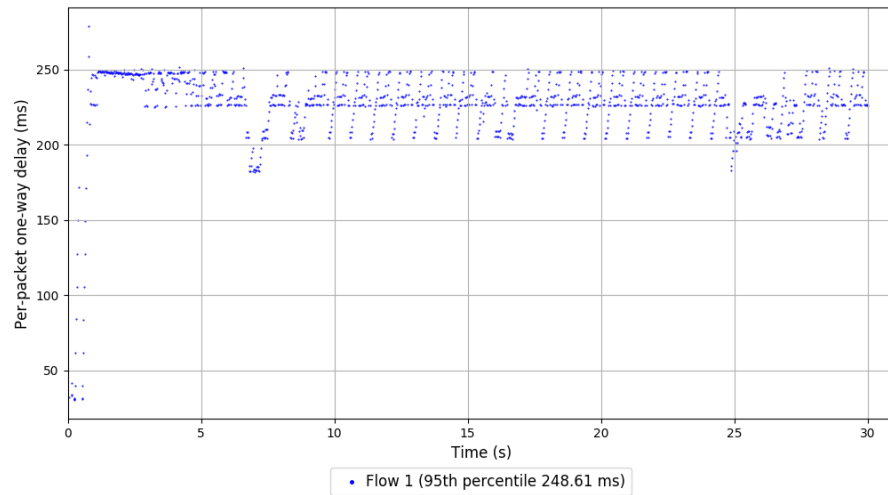
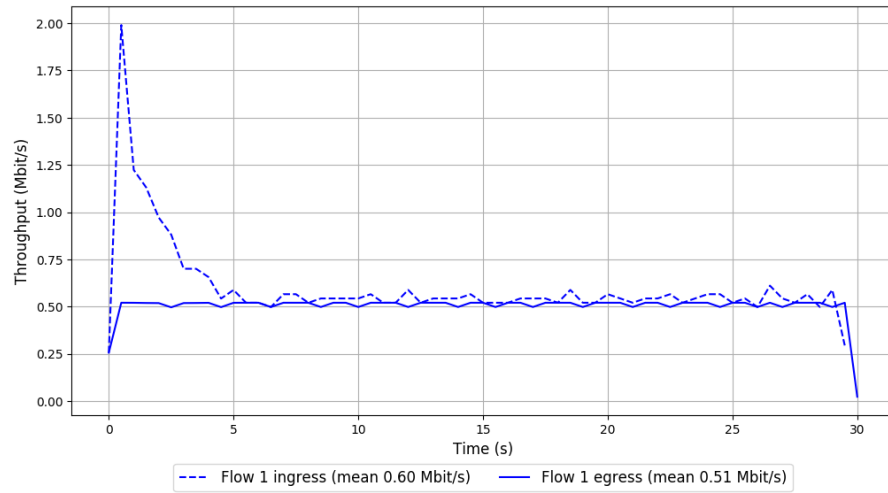
-- Flow 1:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 248.612 ms

Loss rate: 14.76%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2017-08-21 22:20:14

End at: 2017-08-21 22:20:44

Local clock offset: 0.848 ms

Remote clock offset: 7.131 ms

Below is generated by plot.py at 2017-08-21 23:38:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 246.941 ms

Loss rate: 15.21%

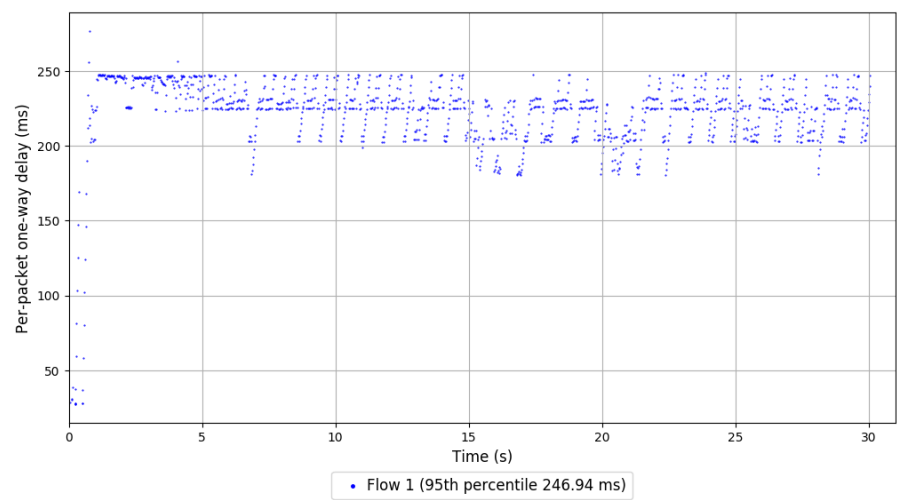
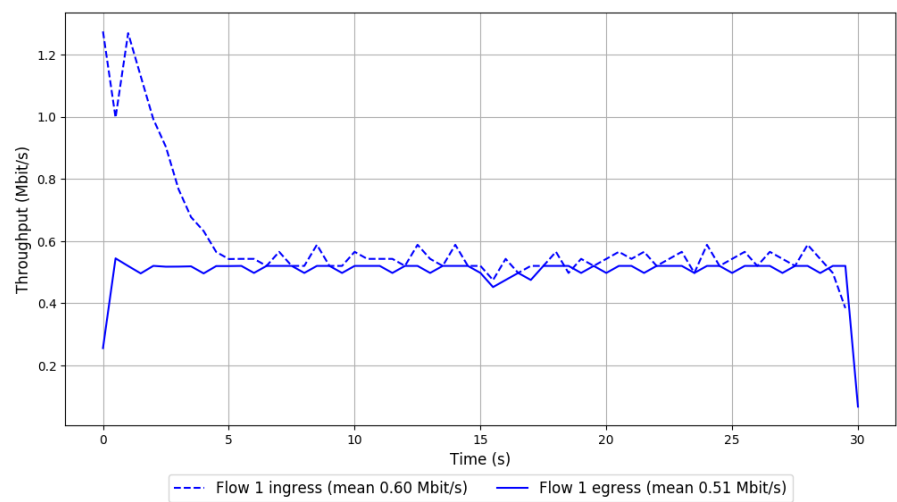
-- Flow 1:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 246.941 ms

Loss rate: 15.21%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2017-08-21 22:37:38

End at: 2017-08-21 22:38:08

Local clock offset: 0.315 ms

Remote clock offset: 7.327 ms

Below is generated by plot.py at 2017-08-21 23:38:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 246.377 ms

Loss rate: 15.51%

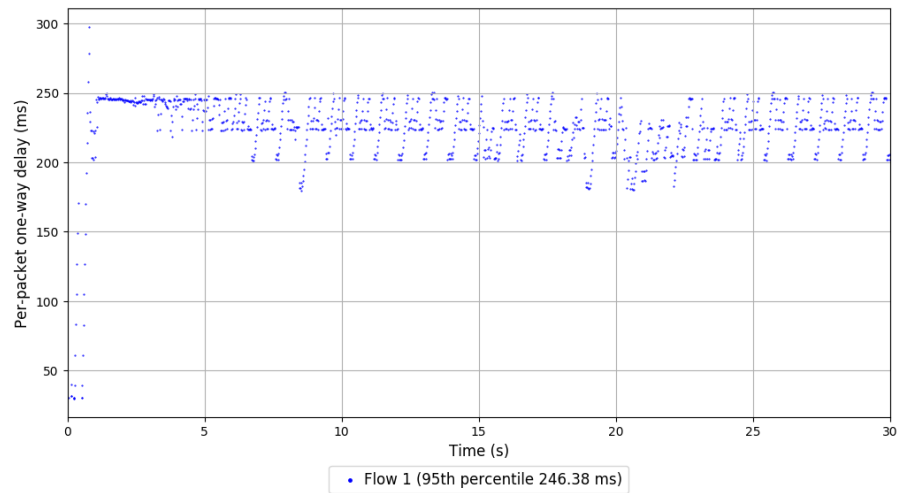
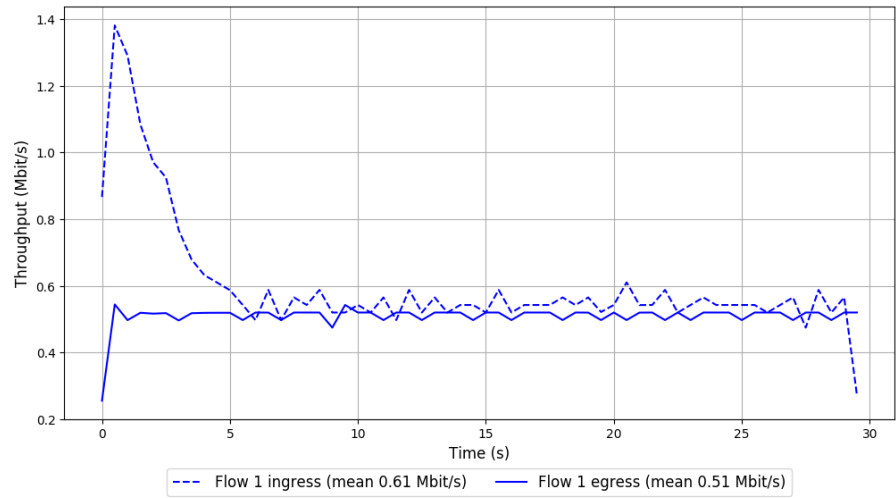
-- Flow 1:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 246.377 ms

Loss rate: 15.51%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2017-08-21 22:55:17

End at: 2017-08-21 22:55:47

Local clock offset: 1.763 ms

Remote clock offset: 7.018 ms

Below is generated by plot.py at 2017-08-21 23:38:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 245.462 ms

Loss rate: 15.40%

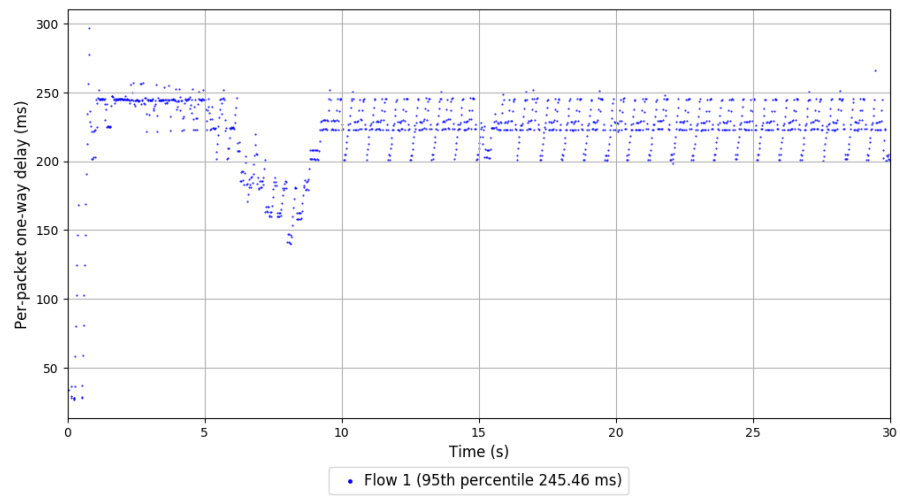
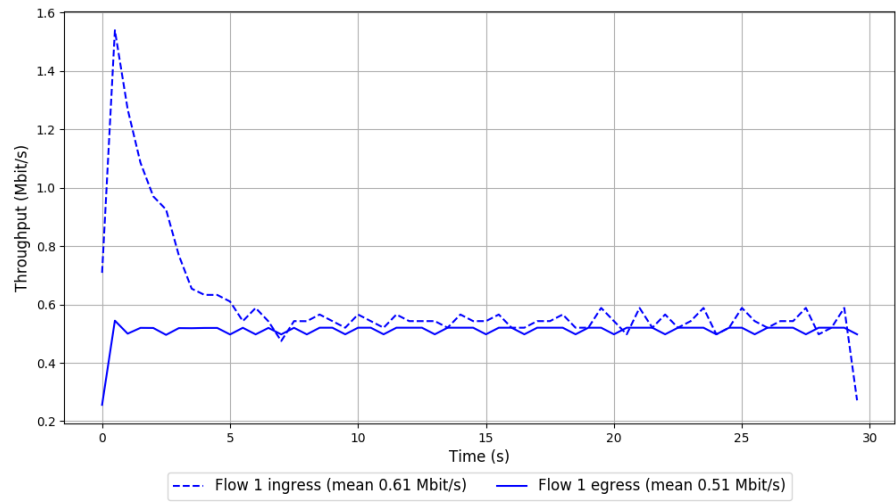
-- Flow 1:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 245.462 ms

Loss rate: 15.40%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2017-08-21 23:12:44

End at: 2017-08-21 23:13:14

Local clock offset: 1.217 ms

Remote clock offset: 6.943 ms

Below is generated by plot.py at 2017-08-21 23:38:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 244.482 ms

Loss rate: 16.09%

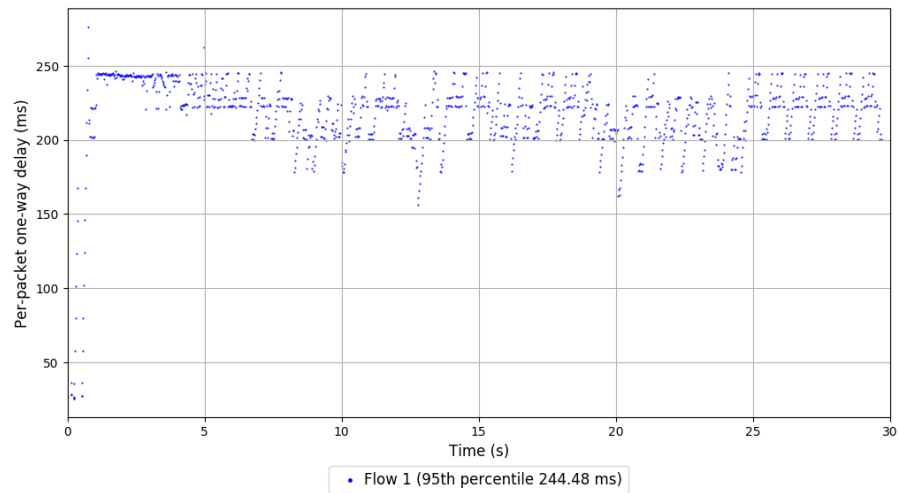
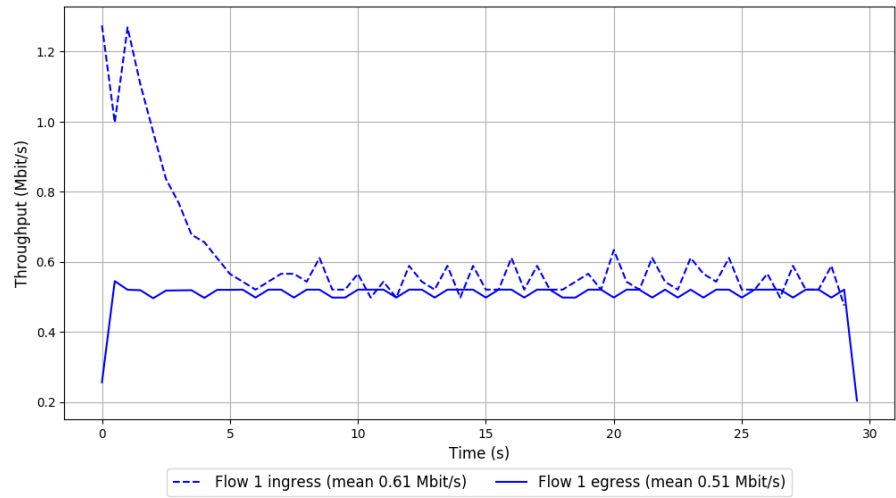
-- Flow 1:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 244.482 ms

Loss rate: 16.09%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2017-08-21 23:30:08

End at: 2017-08-21 23:30:38

Local clock offset: -0.335 ms

Remote clock offset: 6.39 ms

Below is generated by plot.py at 2017-08-21 23:38:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 246.672 ms

Loss rate: 14.25%

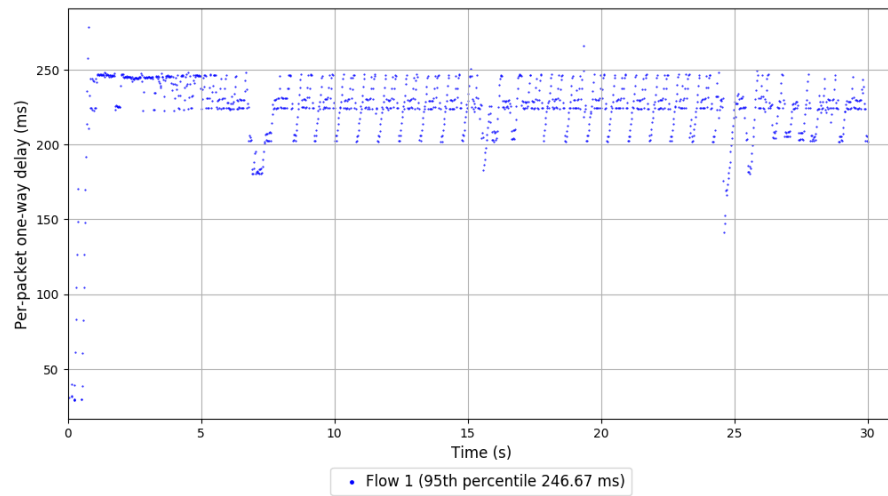
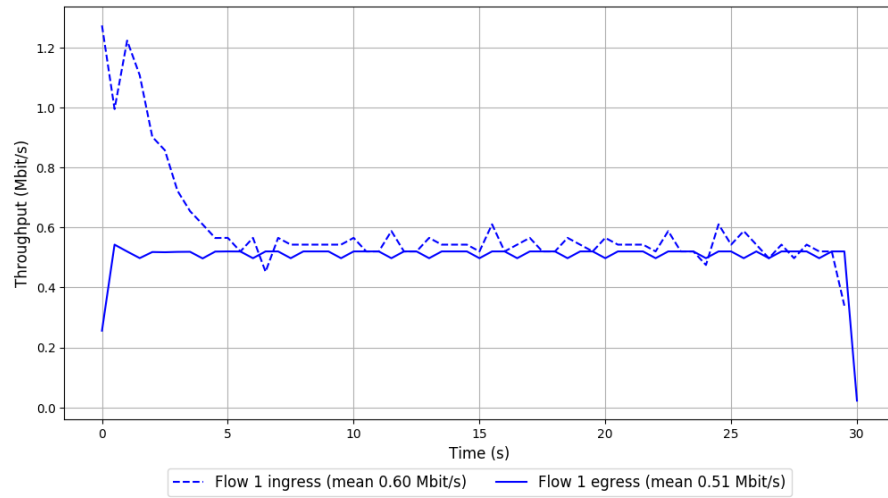
-- Flow 1:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 246.672 ms

Loss rate: 14.25%

Run 10: Report of QUIC Cubic — Data Link



Run 1: Statistics of Saturator

Start at: 2017-08-21 20:58:09

End at: 2017-08-21 20:58:39

Local clock offset: 0.231 ms

Remote clock offset: 7.112 ms

Below is generated by plot.py at 2017-08-21 23:38:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 263.786 ms

Loss rate: 49.92%

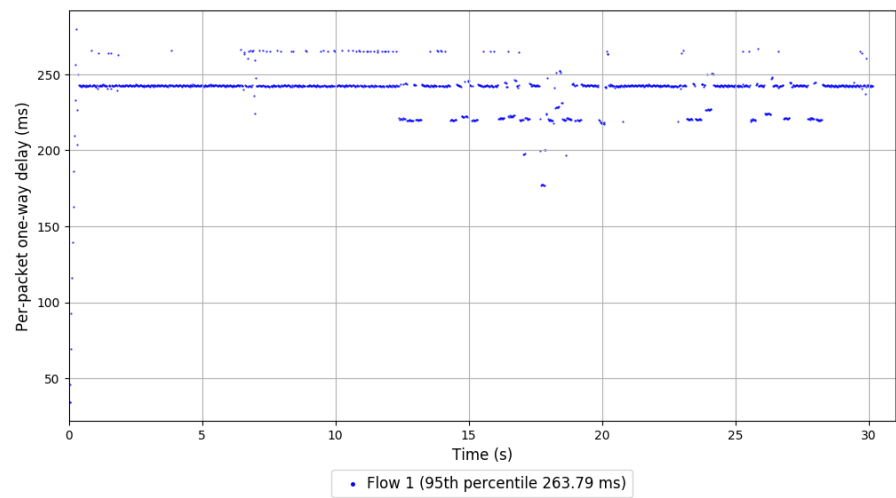
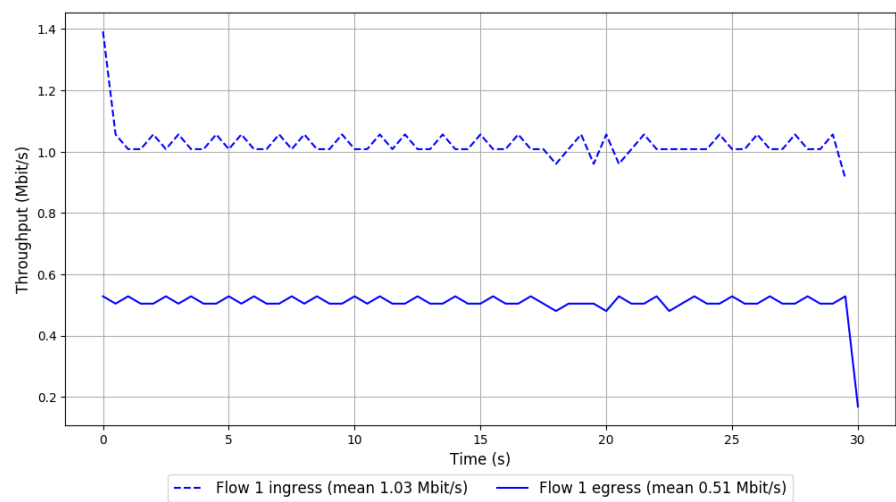
-- Flow 1:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 263.786 ms

Loss rate: 49.92%

Run 1: Report of Saturator — Data Link



Run 2: Statistics of Saturator

Start at: 2017-08-21 21:15:34

End at: 2017-08-21 21:16:04

Local clock offset: -1.78 ms

Remote clock offset: 7.727 ms

Below is generated by plot.py at 2017-08-21 23:38:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 247.220 ms

Loss rate: 49.88%

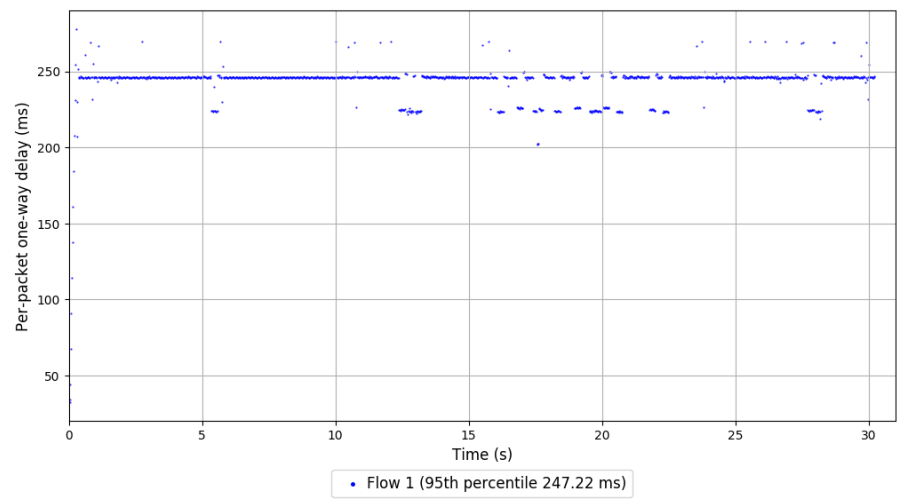
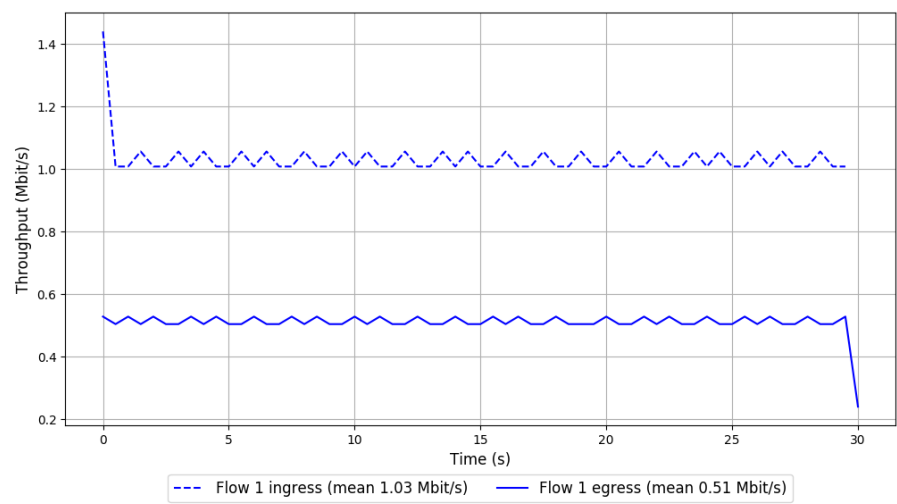
-- Flow 1:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 247.220 ms

Loss rate: 49.88%

Run 2: Report of Saturator — Data Link



Run 3: Statistics of Saturator

Start at: 2017-08-21 21:32:59

End at: 2017-08-21 21:33:29

Local clock offset: 2.164 ms

Remote clock offset: 7.709 ms

Below is generated by plot.py at 2017-08-21 23:38:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 256.901 ms

Loss rate: 49.81%

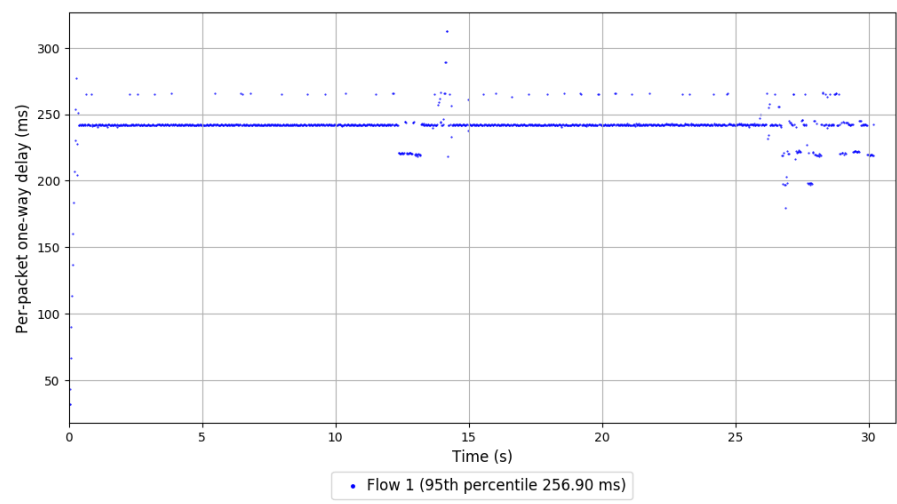
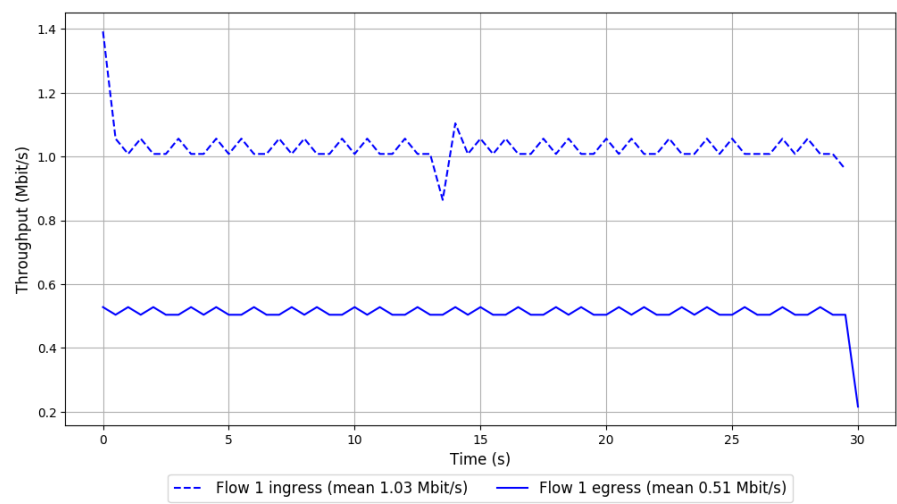
-- Flow 1:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 256.901 ms

Loss rate: 49.81%

Run 3: Report of Saturator — Data Link



Run 4: Statistics of Saturator

Start at: 2017-08-21 21:50:23

End at: 2017-08-21 21:50:53

Local clock offset: 1.295 ms

Remote clock offset: 7.894 ms

Below is generated by plot.py at 2017-08-21 23:38:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 242.705 ms

Loss rate: 49.88%

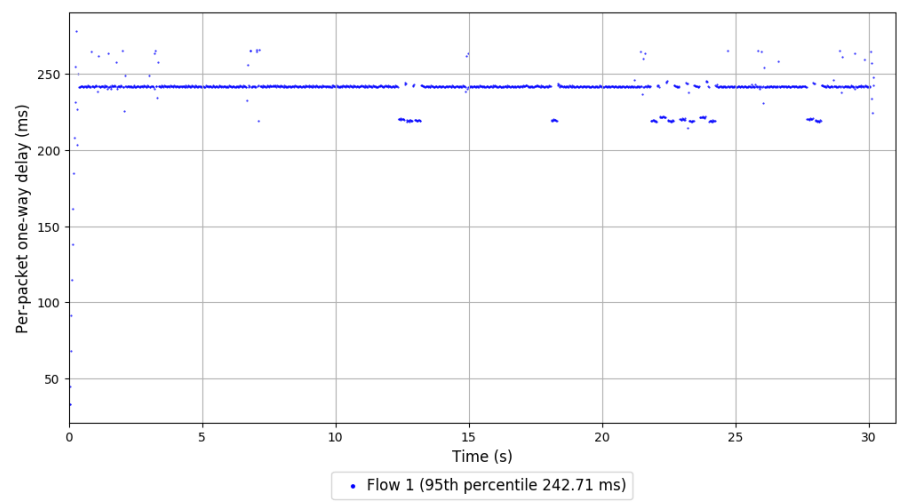
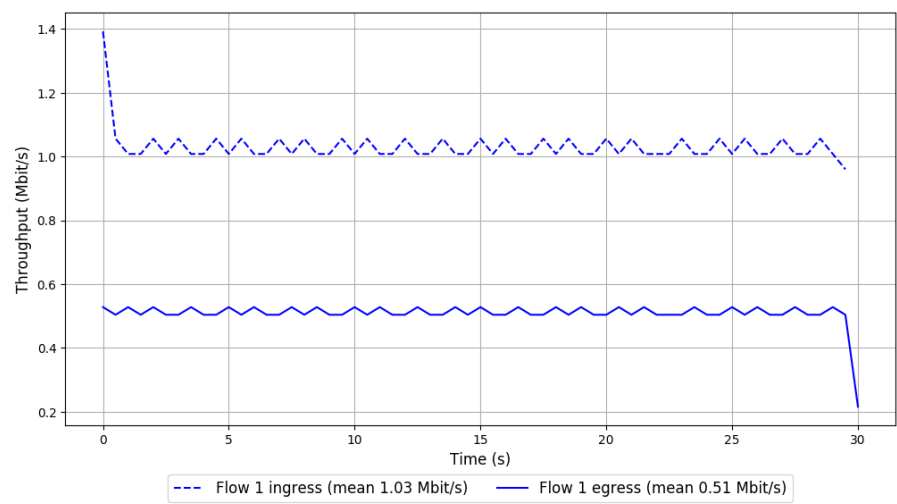
-- Flow 1:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 242.705 ms

Loss rate: 49.88%

Run 4: Report of Saturator — Data Link



Run 5: Statistics of Saturator

Start at: 2017-08-21 22:07:47

End at: 2017-08-21 22:08:17

Local clock offset: 2.561 ms

Remote clock offset: 7.727 ms

Below is generated by plot.py at 2017-08-21 23:38:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 242.445 ms

Loss rate: 49.88%

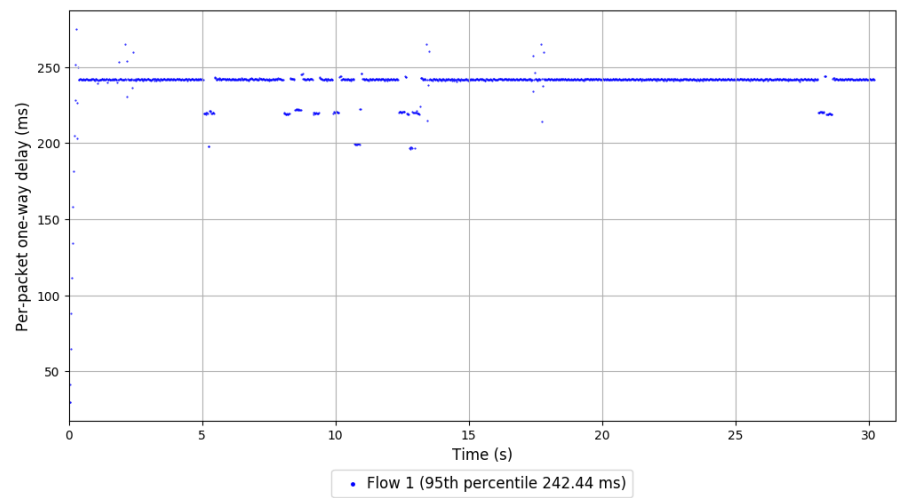
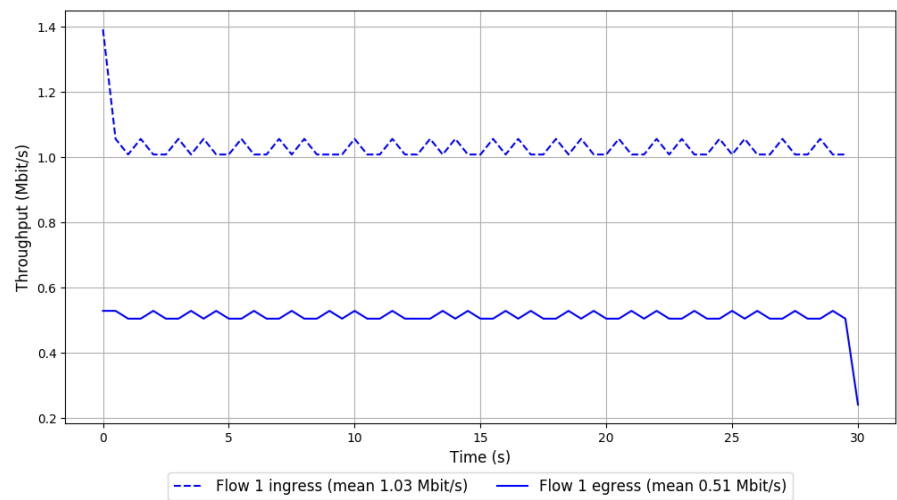
-- Flow 1:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 242.445 ms

Loss rate: 49.88%

Run 5: Report of Saturator — Data Link



Run 6: Statistics of Saturator

Start at: 2017-08-21 22:25:10

End at: 2017-08-21 22:25:40

Local clock offset: -1.391 ms

Remote clock offset: 7.391 ms

Below is generated by plot.py at 2017-08-21 23:38:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 245.769 ms

Loss rate: 49.88%

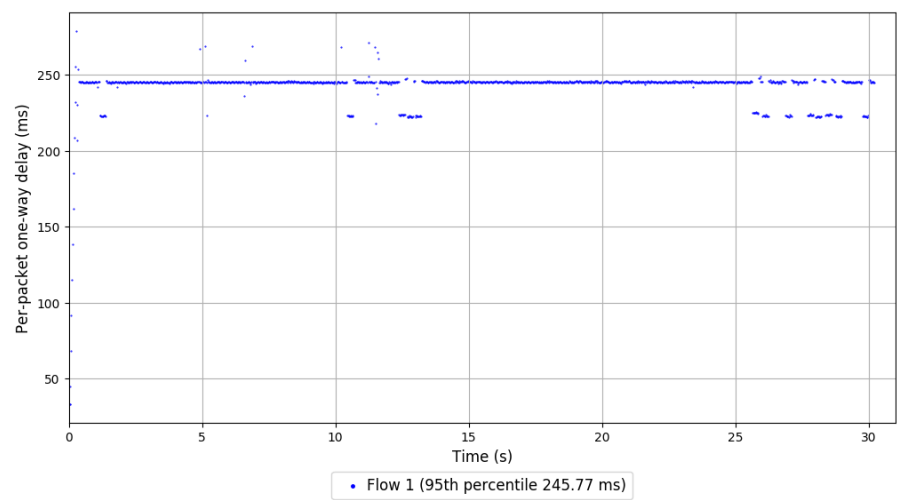
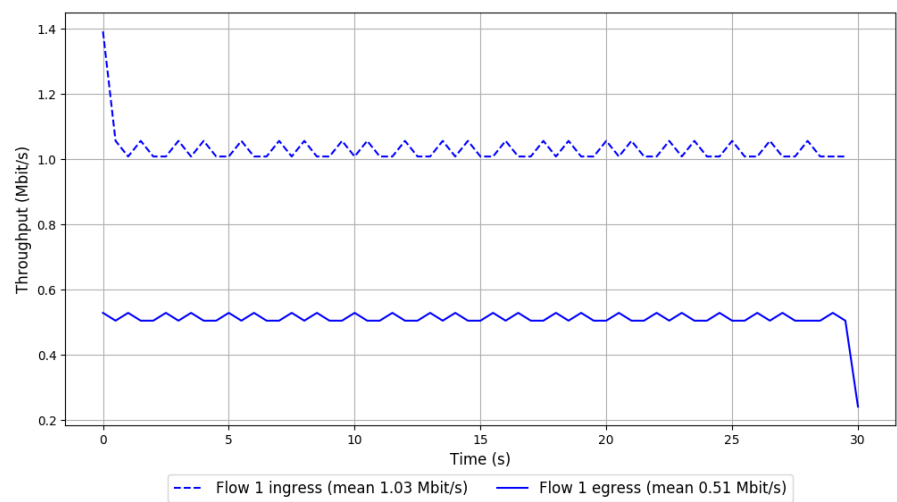
-- Flow 1:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 245.769 ms

Loss rate: 49.88%

Run 6: Report of Saturator — Data Link



Run 7: Statistics of Saturator

Start at: 2017-08-21 22:42:41

End at: 2017-08-21 22:43:11

Local clock offset: 2.729 ms

Remote clock offset: 7.522 ms

Below is generated by plot.py at 2017-08-21 23:38:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 262.765 ms

Loss rate: 49.88%

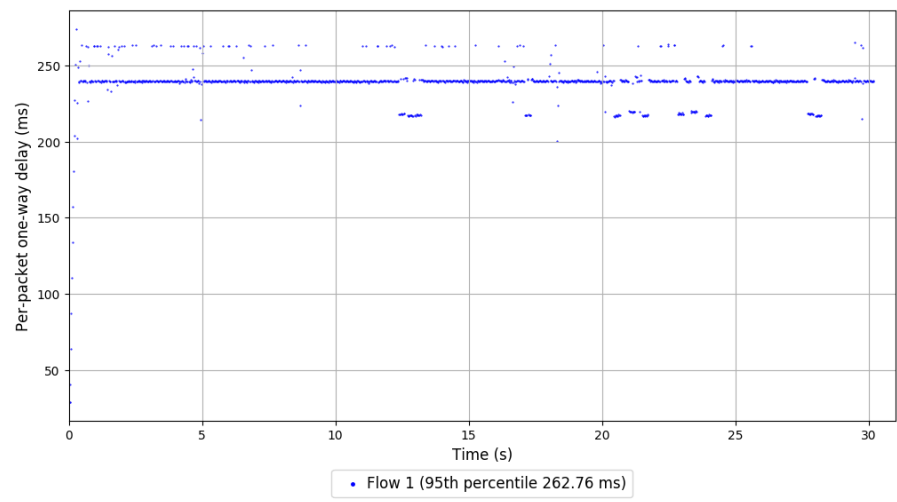
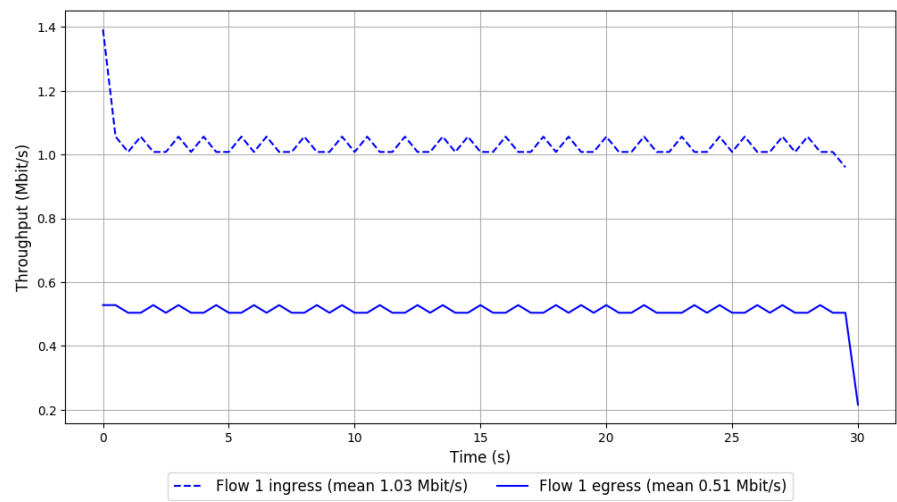
-- Flow 1:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 262.765 ms

Loss rate: 49.88%

Run 7: Report of Saturator — Data Link



Run 8: Statistics of Saturator

Start at: 2017-08-21 23:00:15

End at: 2017-08-21 23:00:45

Local clock offset: -2.079 ms

Remote clock offset: 6.977 ms

Below is generated by plot.py at 2017-08-21 23:38:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 245.749 ms

Loss rate: 49.88%

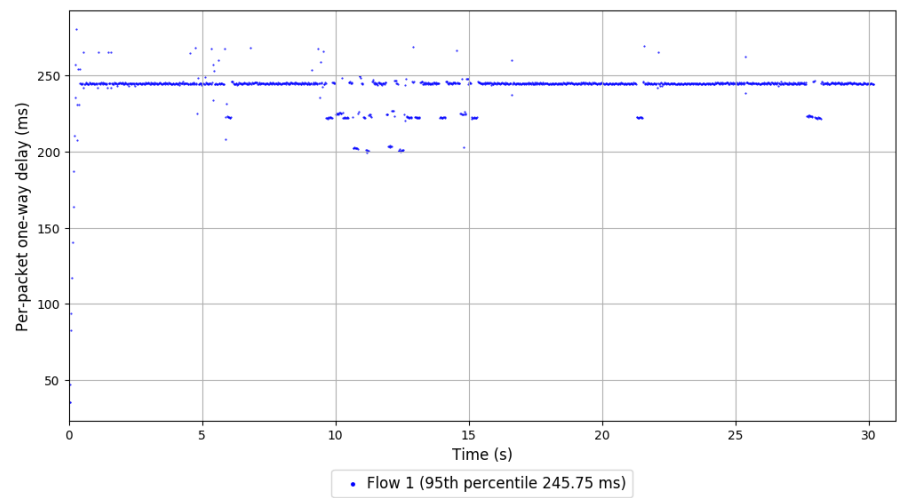
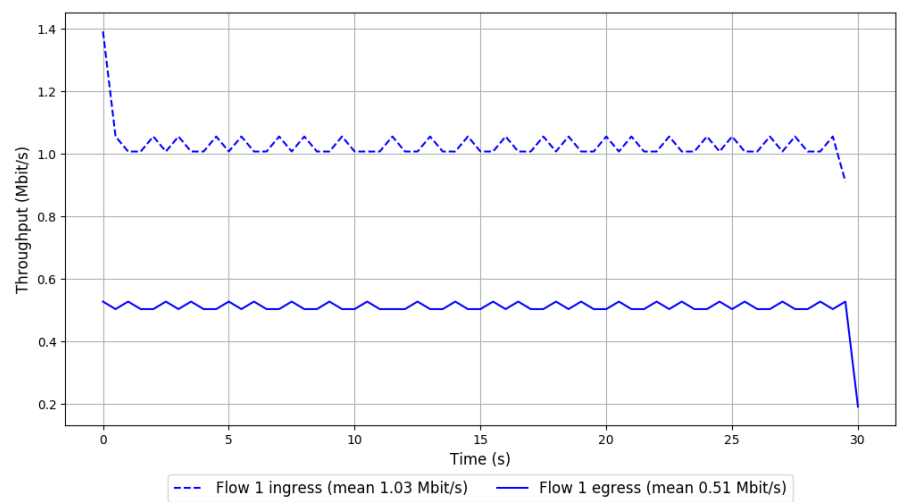
-- Flow 1:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 245.749 ms

Loss rate: 49.88%

Run 8: Report of Saturator — Data Link



Run 9: Statistics of Saturator

Start at: 2017-08-21 23:17:42

End at: 2017-08-21 23:18:12

Local clock offset: -0.43 ms

Remote clock offset: 6.192 ms

Below is generated by plot.py at 2017-08-21 23:38:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 242.321 ms

Loss rate: 49.88%

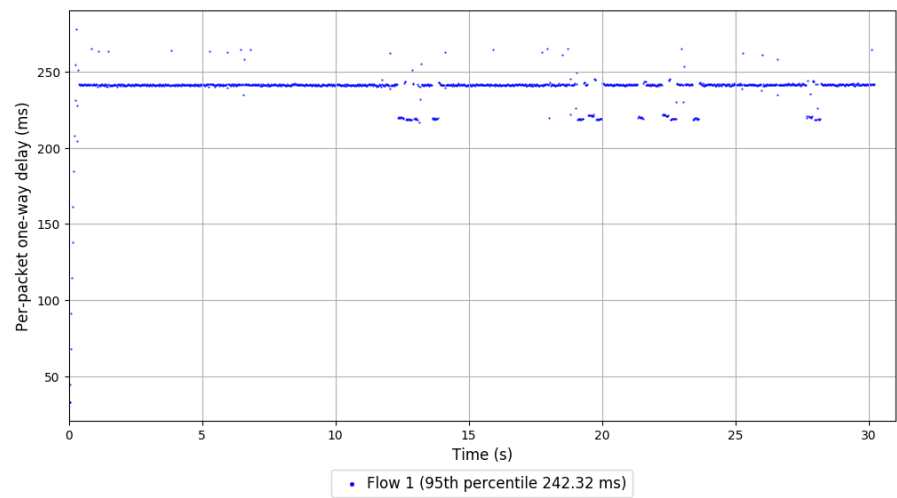
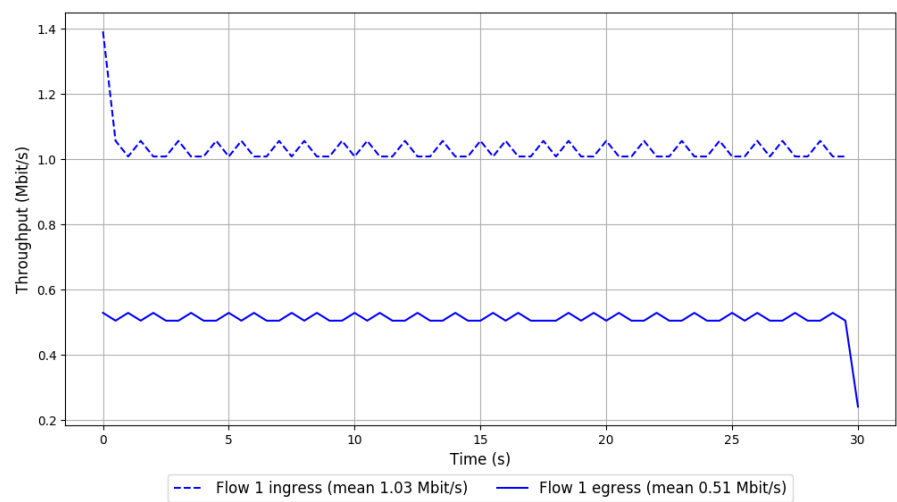
-- Flow 1:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 242.321 ms

Loss rate: 49.88%

Run 9: Report of Saturator — Data Link



Run 10: Statistics of Saturator

Start at: 2017-08-21 23:35:06

End at: 2017-08-21 23:35:36

Local clock offset: -0.335 ms

Remote clock offset: 6.521 ms

Below is generated by plot.py at 2017-08-21 23:38:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 242.459 ms

Loss rate: 49.88%

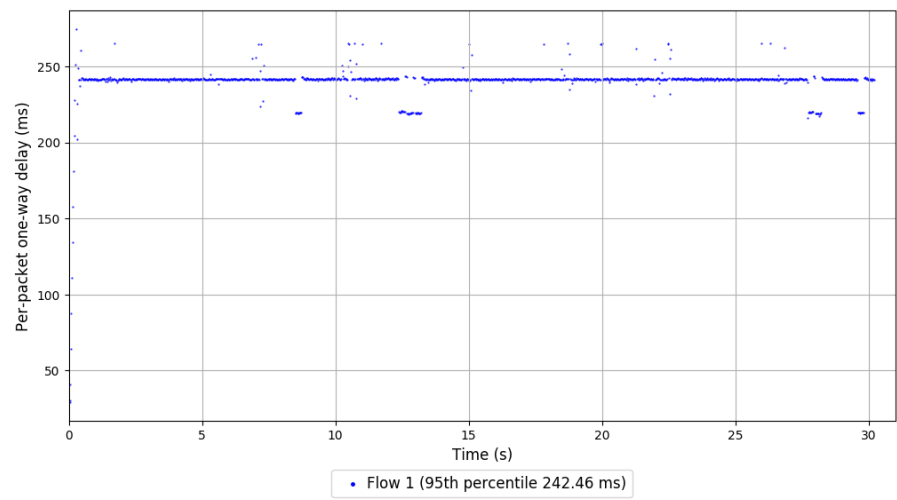
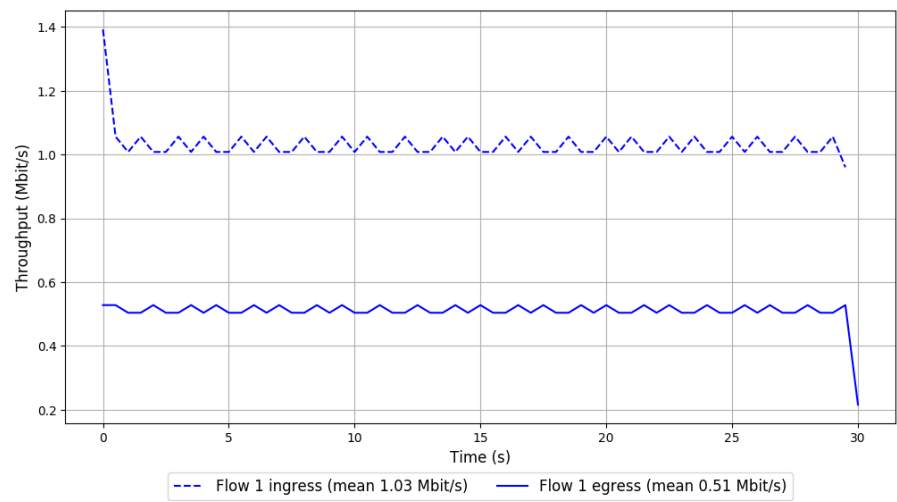
-- Flow 1:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 242.459 ms

Loss rate: 49.88%

Run 10: Report of Saturator — Data Link

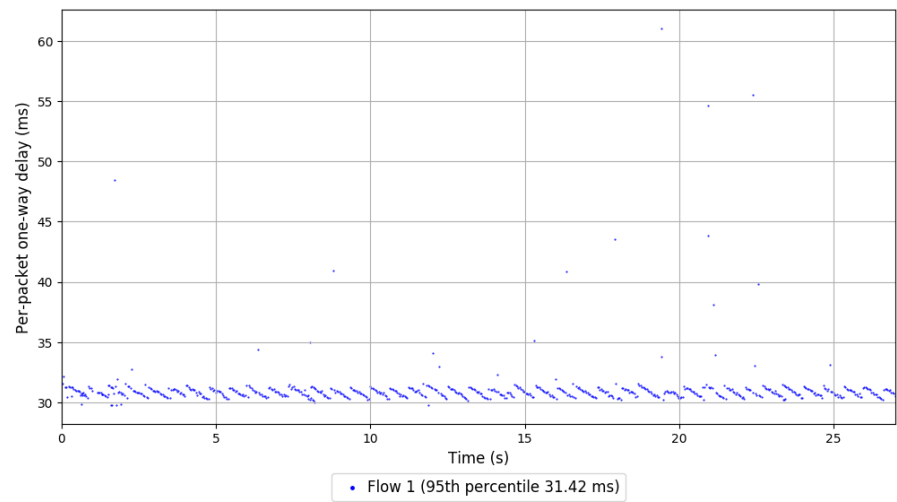
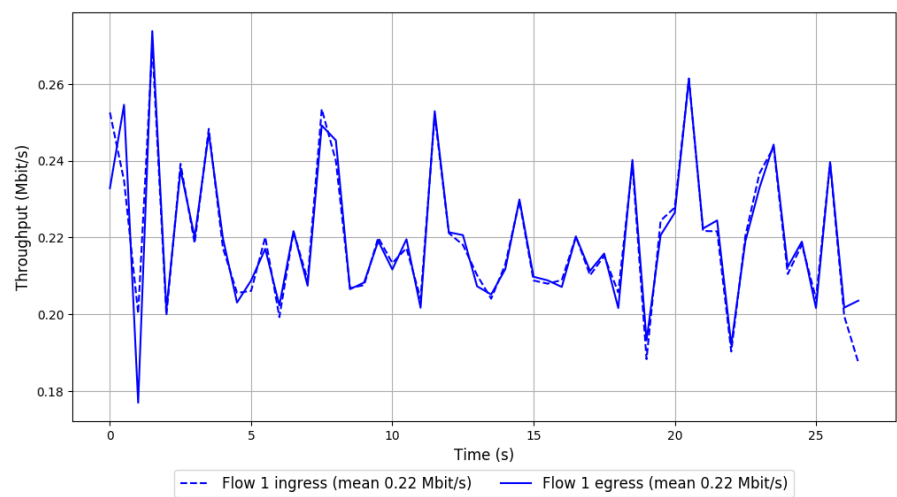


```
Run 1: Statistics of SCReAM

Start at: 2017-08-21 20:45:46
End at: 2017-08-21 20:46:16
Local clock offset: 0.705 ms
Remote clock offset: 7.245 ms

# Below is generated by plot.py at 2017-08-21 23:38:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 31.420 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 31.420 ms
Loss rate: 0.00%
```


Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2017-08-21 21:03:11

End at: 2017-08-21 21:03:41

Local clock offset: -0.593 ms

Remote clock offset: 7.474 ms

Below is generated by plot.py at 2017-08-21 23:38:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 30.805 ms

Loss rate: 0.00%

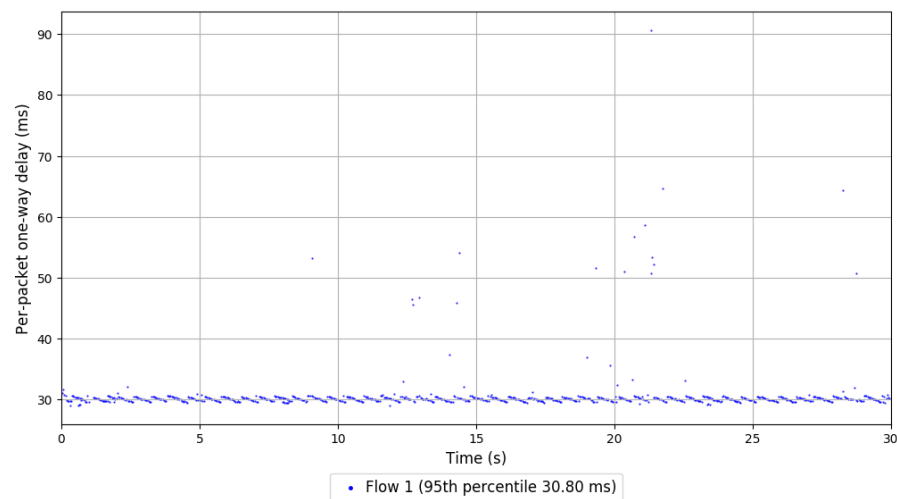
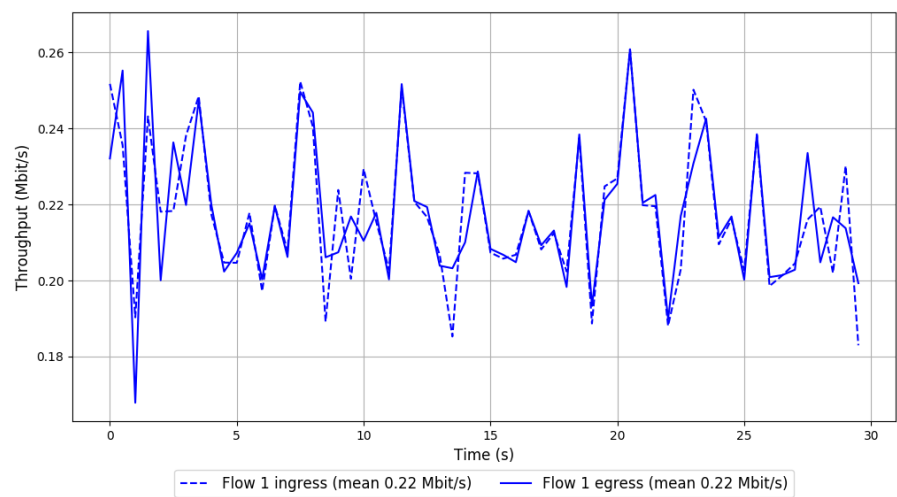
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 30.805 ms

Loss rate: 0.00%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2017-08-21 21:20:35

End at: 2017-08-21 21:21:05

Local clock offset: -1.052 ms

Remote clock offset: 7.694 ms

Below is generated by plot.py at 2017-08-21 23:38:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 33.643 ms

Loss rate: 0.13%

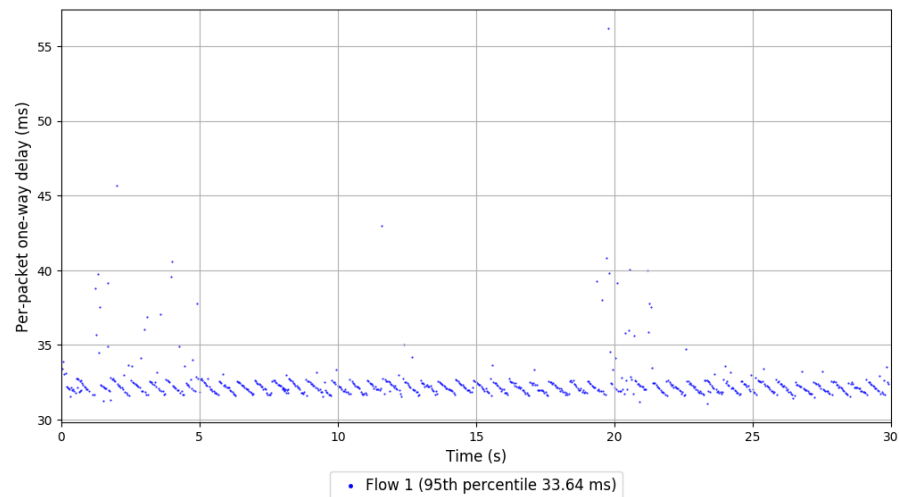
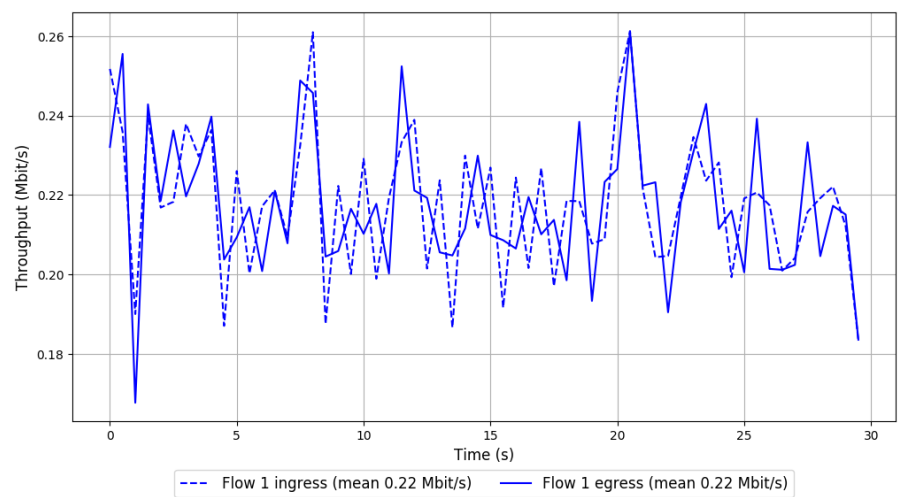
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 33.643 ms

Loss rate: 0.13%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2017-08-21 21:37:57

End at: 2017-08-21 21:38:27

Local clock offset: 1.349 ms

Remote clock offset: 7.135 ms

Below is generated by plot.py at 2017-08-21 23:38:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 29.993 ms

Loss rate: 0.00%

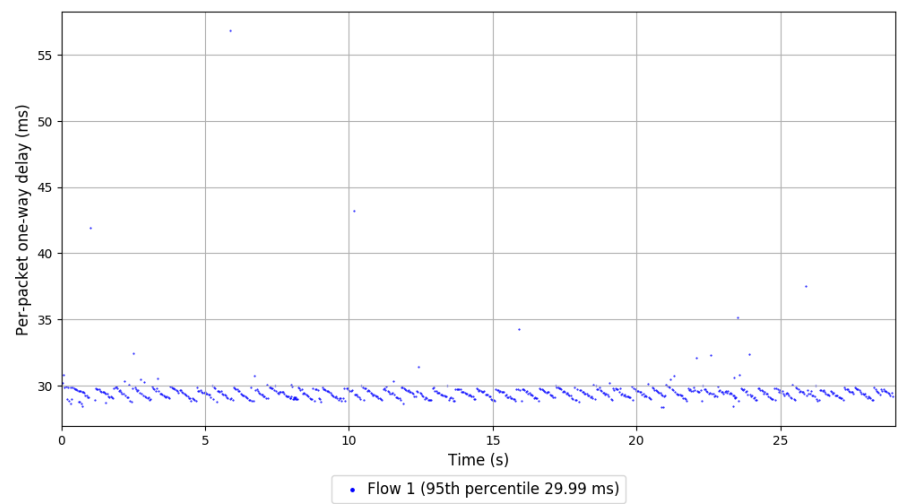
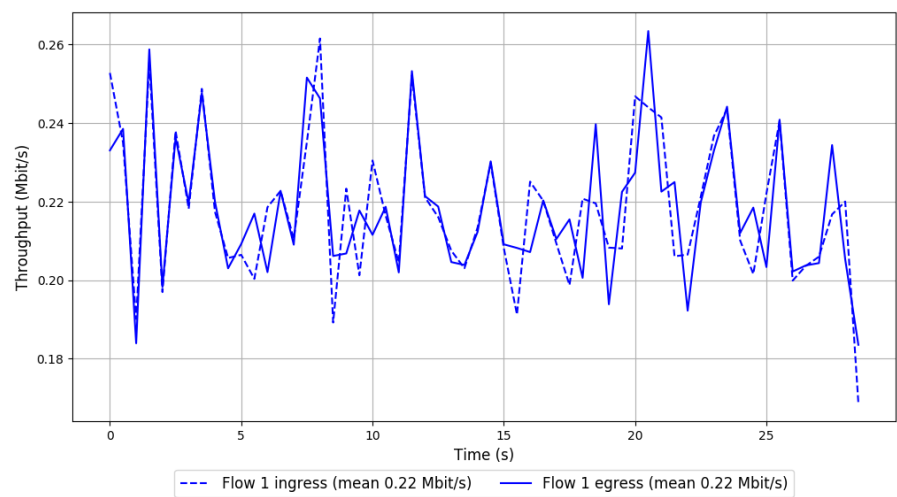
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 29.993 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2017-08-21 21:55:22

End at: 2017-08-21 21:55:52

Local clock offset: -1.425 ms

Remote clock offset: 7.088 ms

Below is generated by plot.py at 2017-08-21 23:38:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 32.641 ms

Loss rate: 0.00%

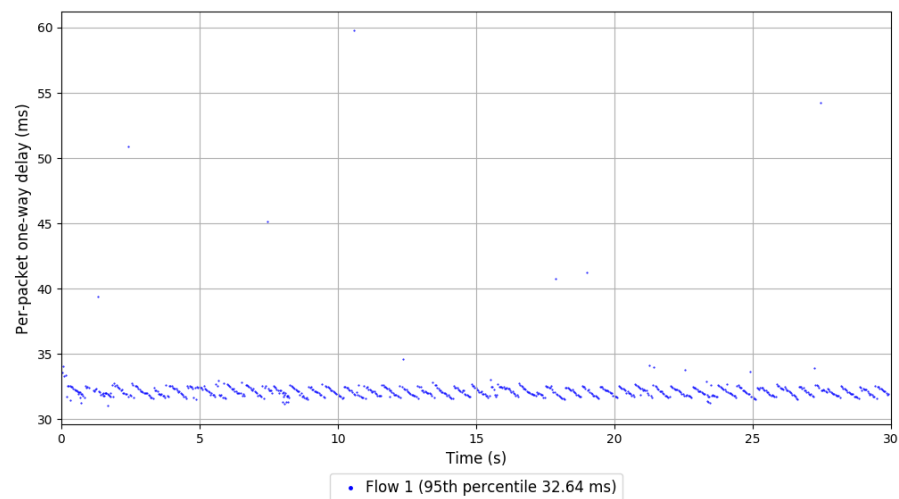
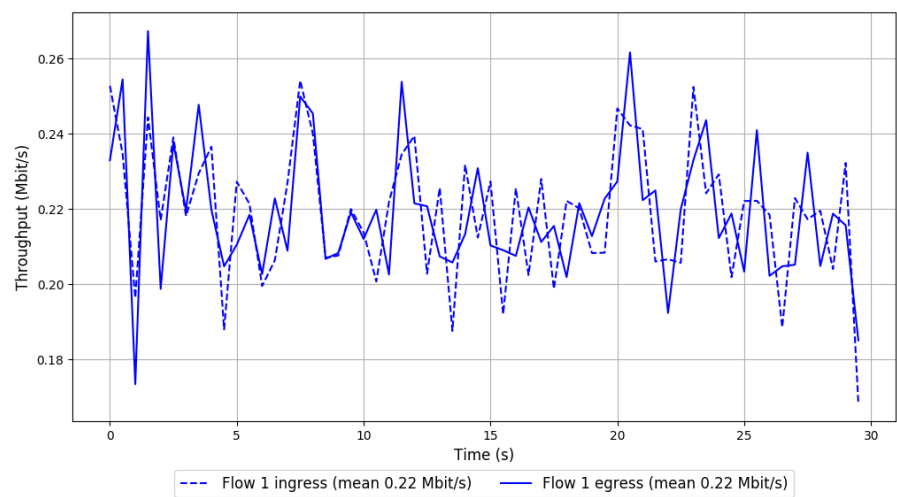
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 32.641 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2017-08-21 22:12:45

End at: 2017-08-21 22:13:15

Local clock offset: 2.874 ms

Remote clock offset: 7.187 ms

Below is generated by plot.py at 2017-08-21 23:38:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 28.376 ms

Loss rate: 0.00%

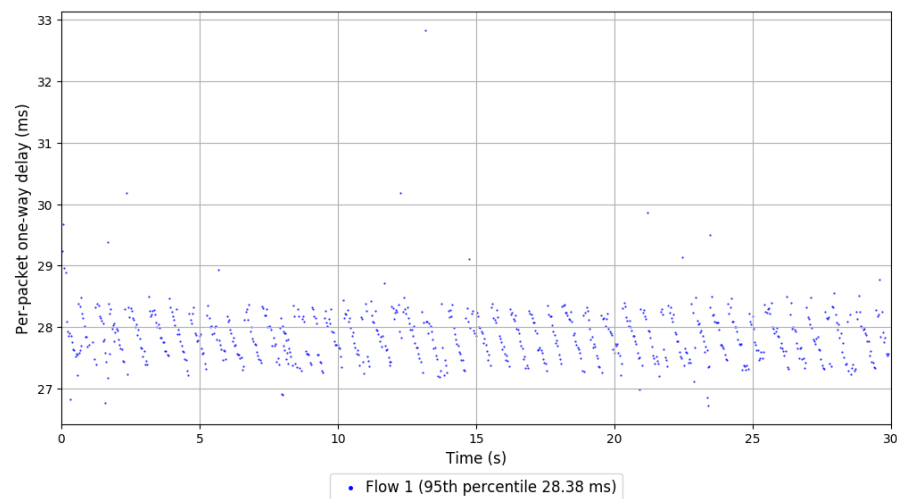
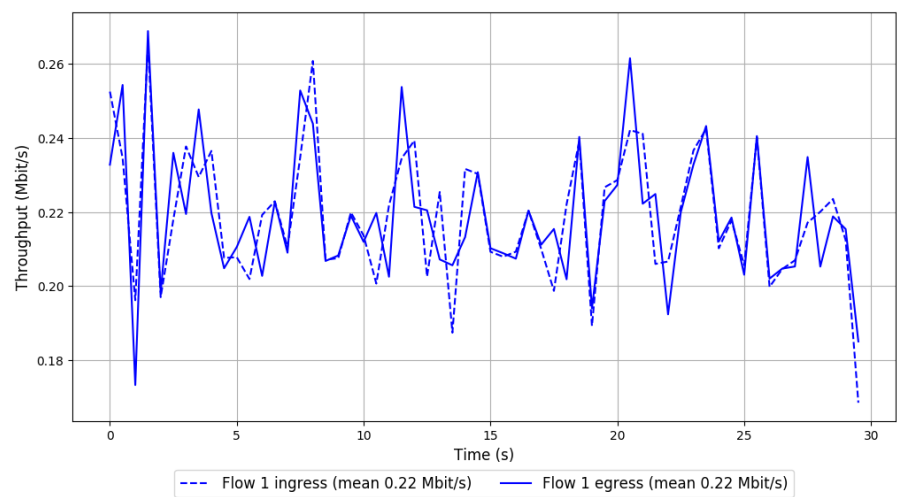
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 28.376 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2017-08-21 22:30:10

End at: 2017-08-21 22:30:40

Local clock offset: -0.974 ms

Remote clock offset: 7.667 ms

Below is generated by plot.py at 2017-08-21 23:38:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 30.939 ms

Loss rate: 0.13%

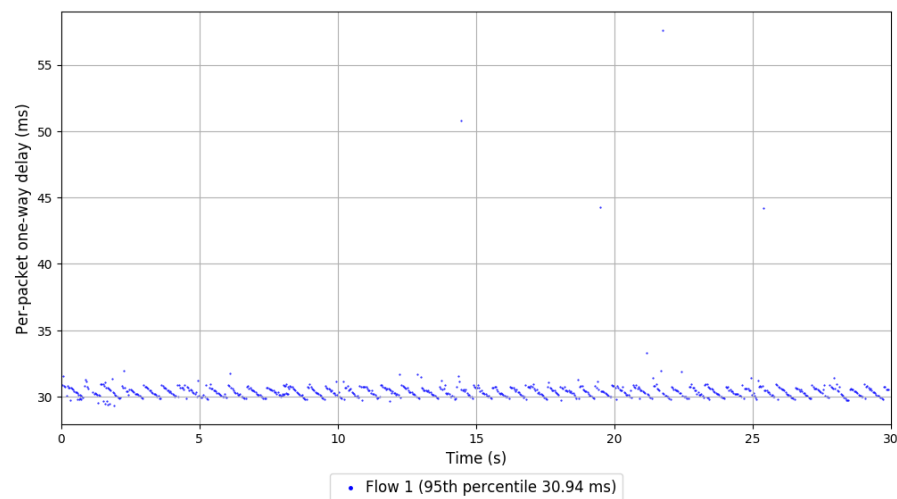
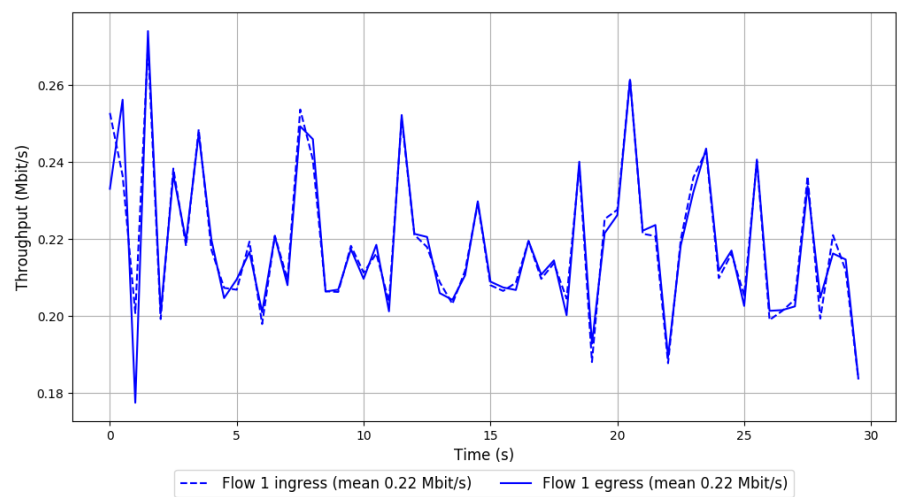
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 30.939 ms

Loss rate: 0.13%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2017-08-21 22:47:41

End at: 2017-08-21 22:48:11

Local clock offset: 1.487 ms

Remote clock offset: 7.548 ms

Below is generated by plot.py at 2017-08-21 23:38:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 29.081 ms

Loss rate: 0.00%

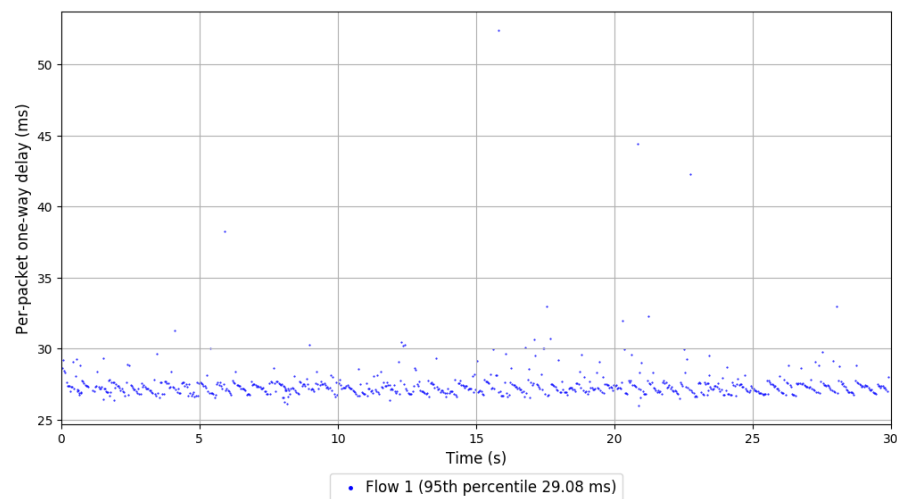
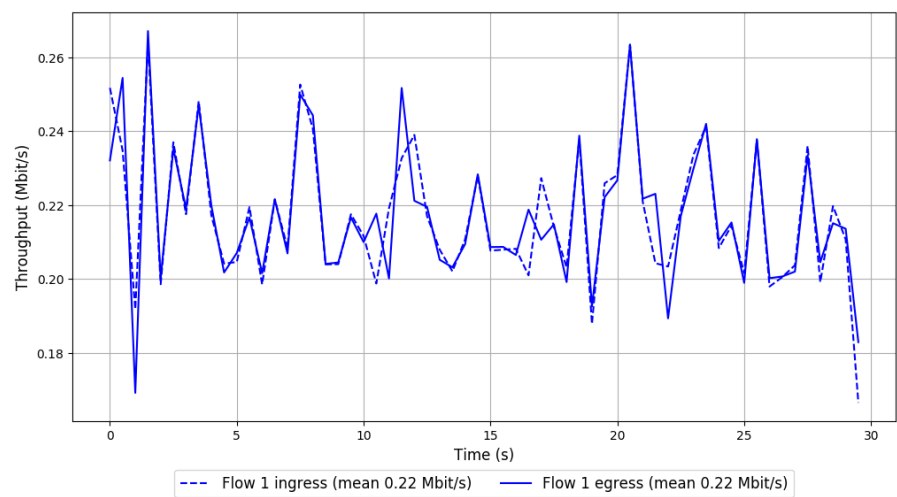
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 29.081 ms

Loss rate: 0.00%

Run 8: Report of SCRaM — Data Link



Run 9: Statistics of SCReAM

Start at: 2017-08-21 23:05:16

End at: 2017-08-21 23:05:46

Local clock offset: 1.032 ms

Remote clock offset: 7.527 ms

Below is generated by plot.py at 2017-08-21 23:38:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 28.089 ms

Loss rate: 0.00%

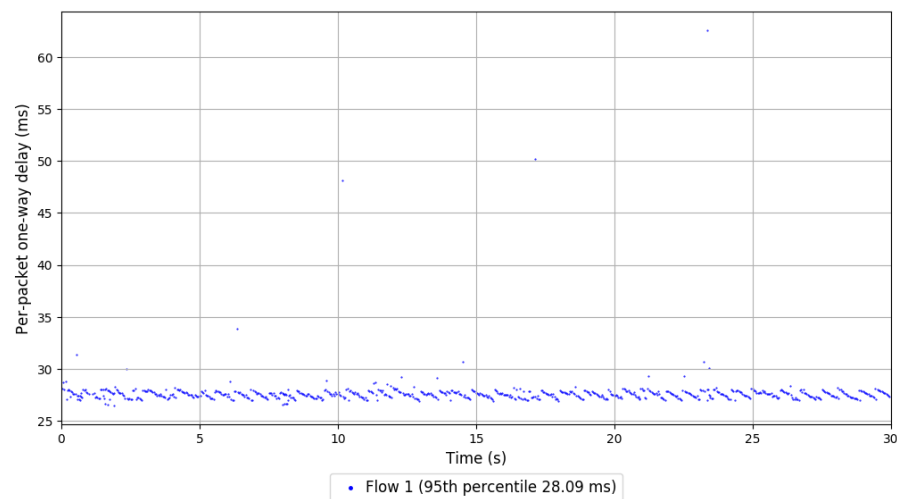
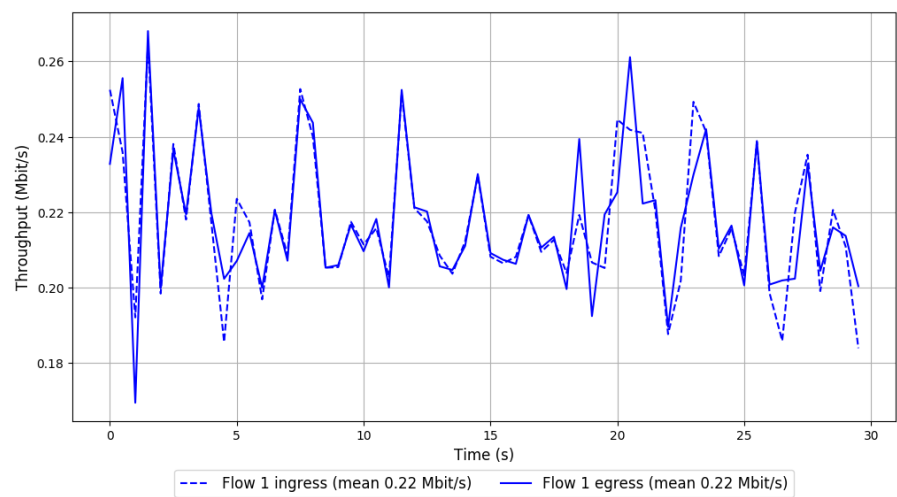
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 28.089 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SCReAM

Start at: 2017-08-21 23:22:42

End at: 2017-08-21 23:23:12

Local clock offset: 1.01 ms

Remote clock offset: 7.231 ms

Below is generated by plot.py at 2017-08-21 23:38:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 28.060 ms

Loss rate: 0.00%

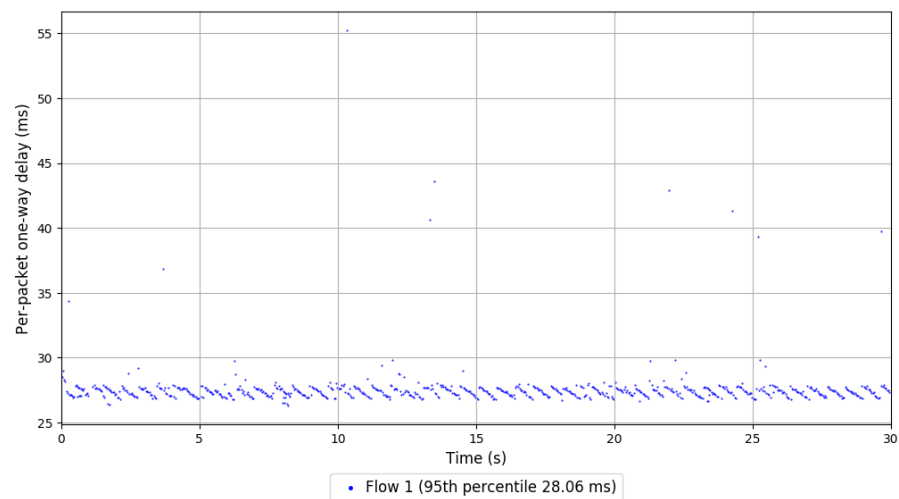
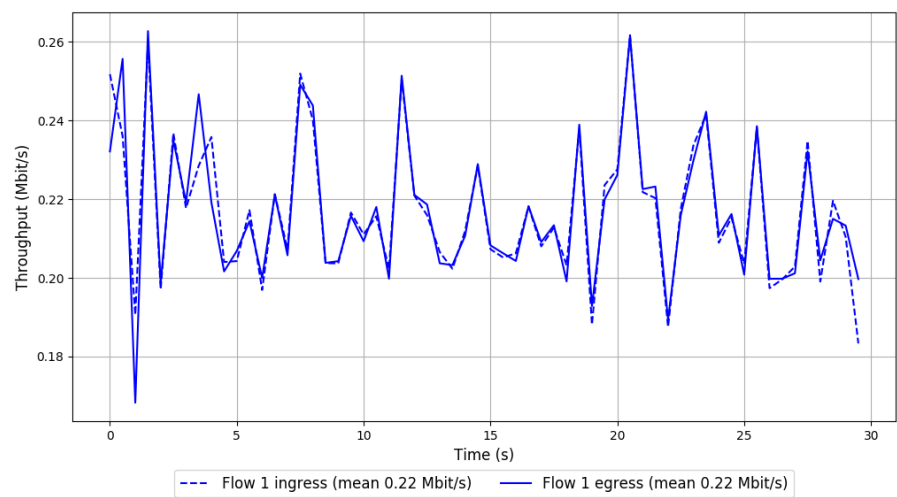
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 28.060 ms

Loss rate: 0.00%

Run 10: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2017-08-21 20:55:39

End at: 2017-08-21 20:56:09

Local clock offset: 3.663 ms

Remote clock offset: 7.516 ms

Below is generated by plot.py at 2017-08-21 23:38:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.30 Mbit/s

95th percentile per-packet one-way delay: 37.951 ms

Loss rate: 0.26%

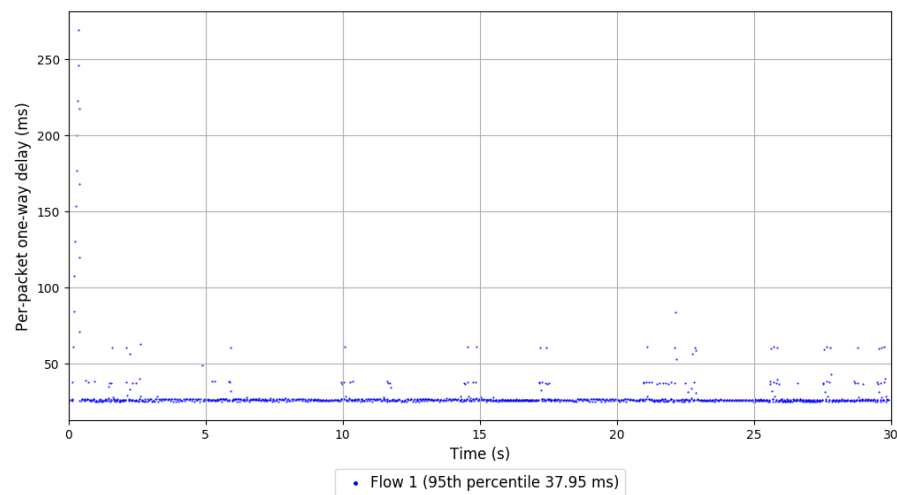
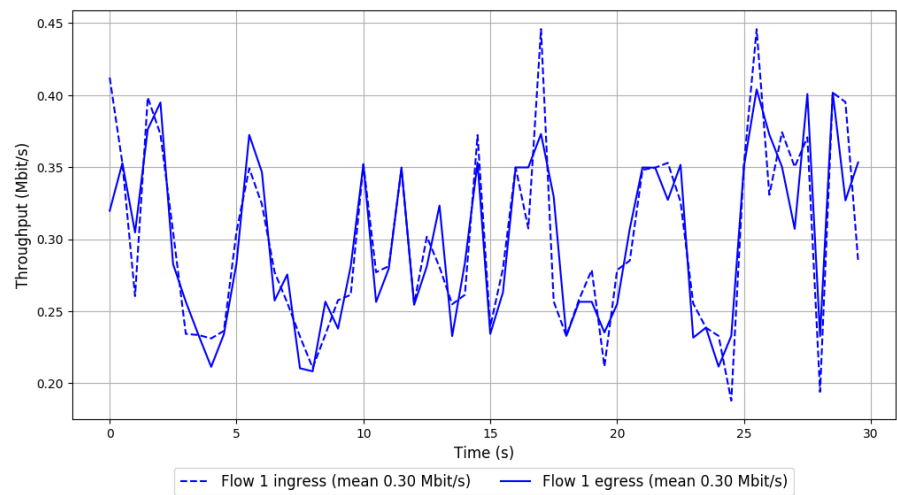
-- Flow 1:

Average throughput: 0.30 Mbit/s

95th percentile per-packet one-way delay: 37.951 ms

Loss rate: 0.26%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2017-08-21 21:13:04

End at: 2017-08-21 21:13:34

Local clock offset: 0.753 ms

Remote clock offset: 7.69 ms

Below is generated by plot.py at 2017-08-21 23:38:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.31 Mbit/s

95th percentile per-packet one-way delay: 42.310 ms

Loss rate: 0.00%

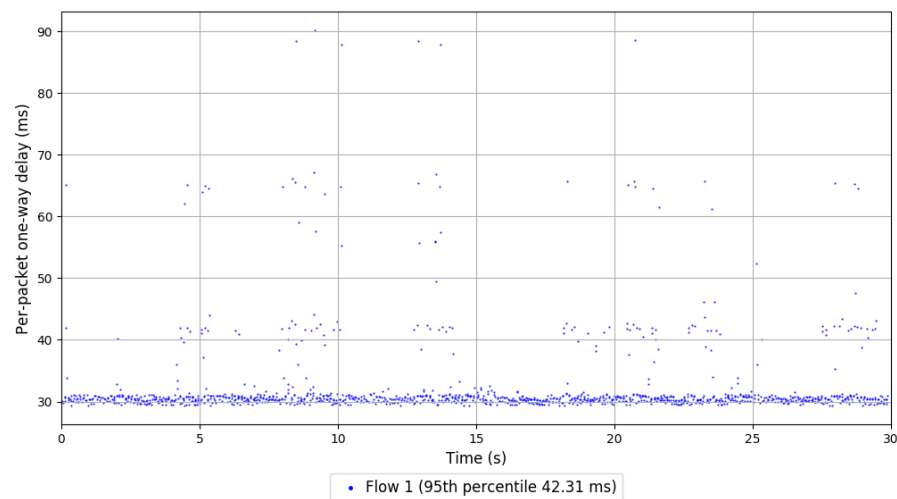
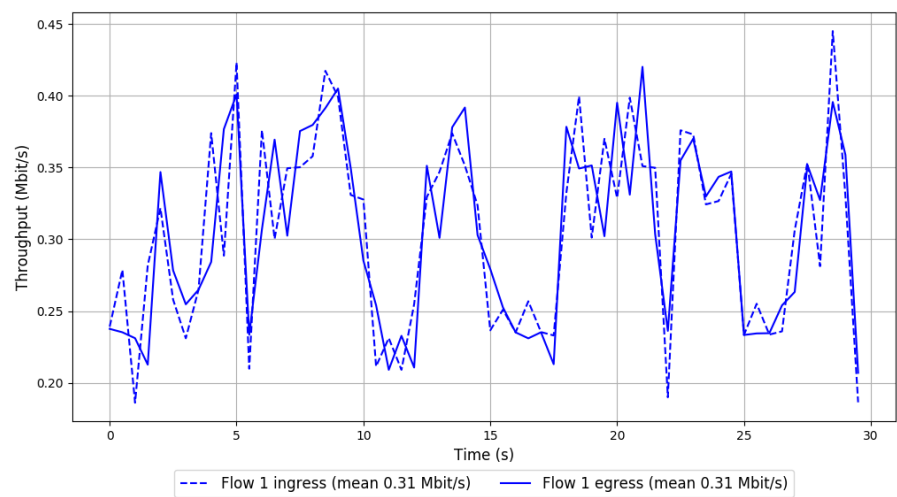
-- Flow 1:

Average throughput: 0.31 Mbit/s

95th percentile per-packet one-way delay: 42.310 ms

Loss rate: 0.00%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2017-08-21 21:30:29

End at: 2017-08-21 21:30:59

Local clock offset: -0.012 ms

Remote clock offset: 7.678 ms

Below is generated by plot.py at 2017-08-21 23:38:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.30 Mbit/s

95th percentile per-packet one-way delay: 49.734 ms

Loss rate: 0.26%

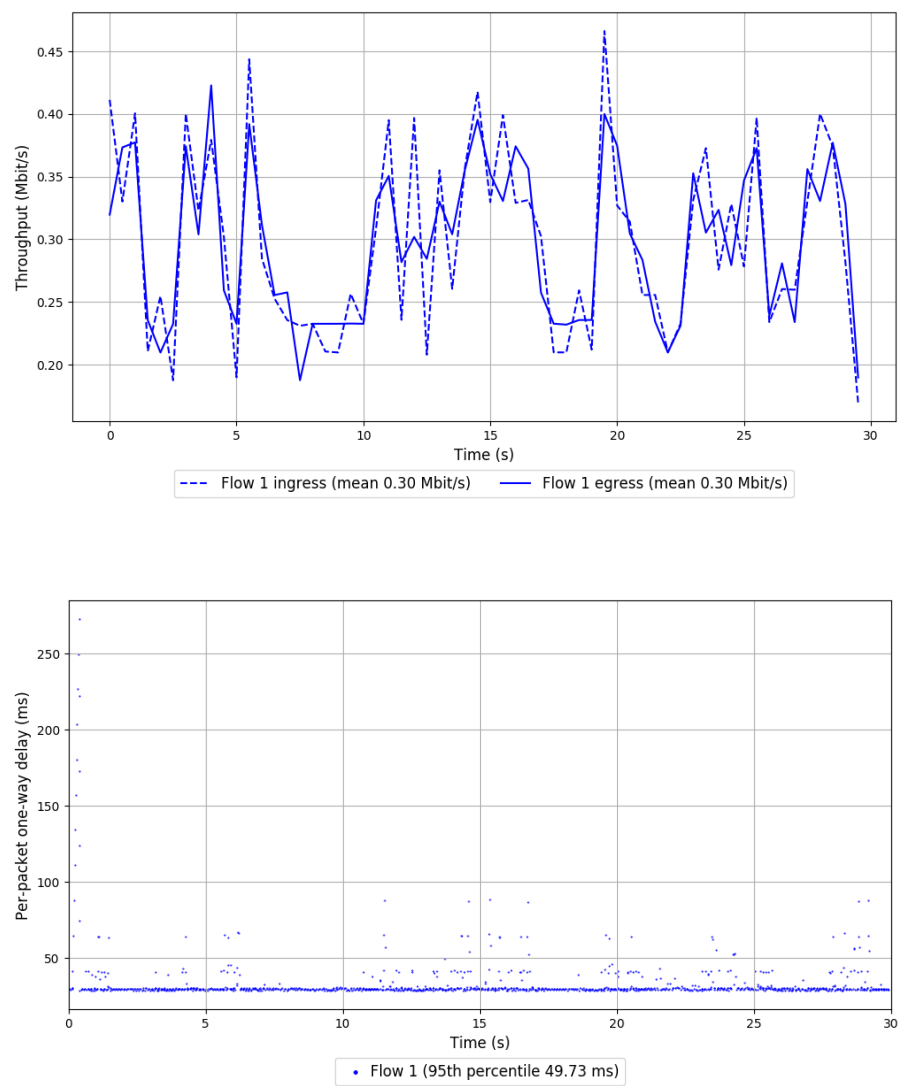
-- Flow 1:

Average throughput: 0.30 Mbit/s

95th percentile per-packet one-way delay: 49.734 ms

Loss rate: 0.26%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2017-08-21 21:47:53

End at: 2017-08-21 21:48:23

Local clock offset: -1.685 ms

Remote clock offset: 7.933 ms

Below is generated by plot.py at 2017-08-21 23:38:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.31 Mbit/s

95th percentile per-packet one-way delay: 43.545 ms

Loss rate: 0.00%

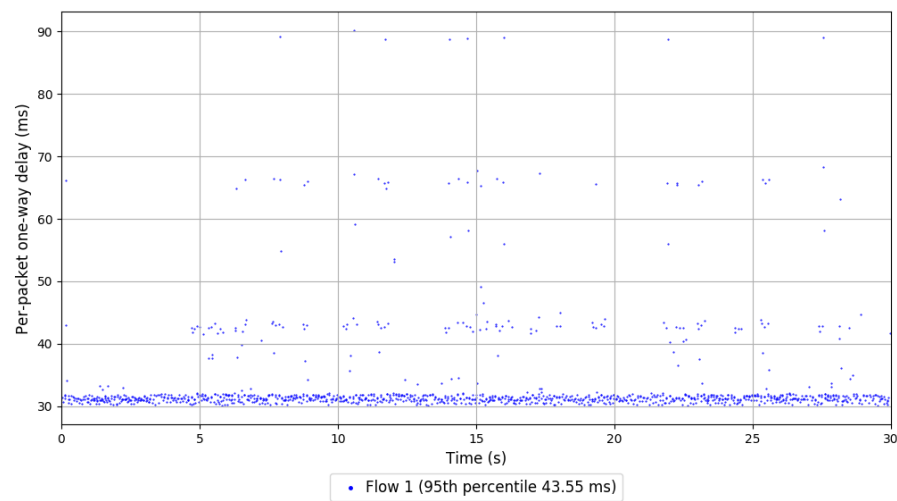
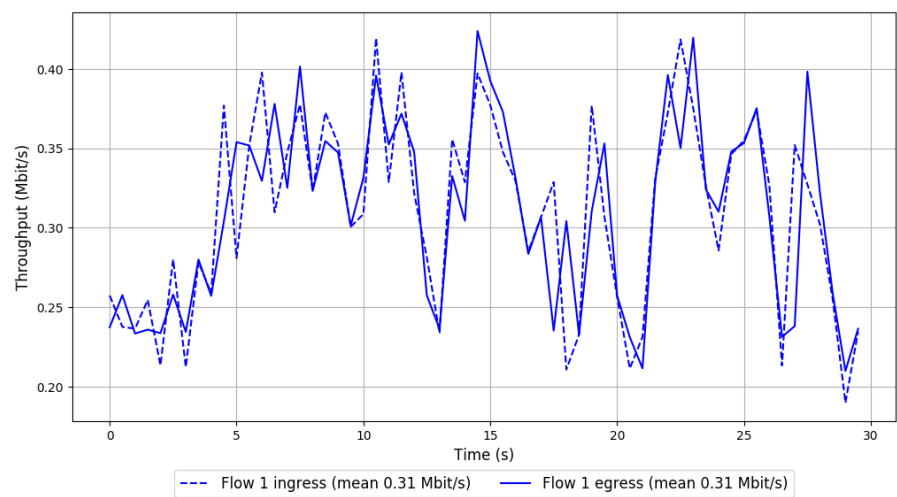
-- Flow 1:

Average throughput: 0.31 Mbit/s

95th percentile per-packet one-way delay: 43.545 ms

Loss rate: 0.00%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2017-08-21 22:05:17

End at: 2017-08-21 22:05:47

Local clock offset: 2.389 ms

Remote clock offset: 6.603 ms

Below is generated by plot.py at 2017-08-21 23:38:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.30 Mbit/s

95th percentile per-packet one-way delay: 37.804 ms

Loss rate: 0.26%

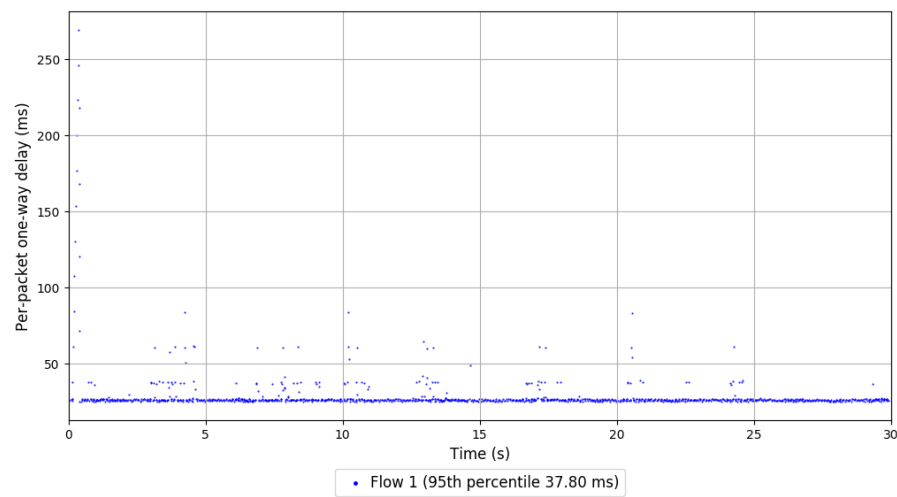
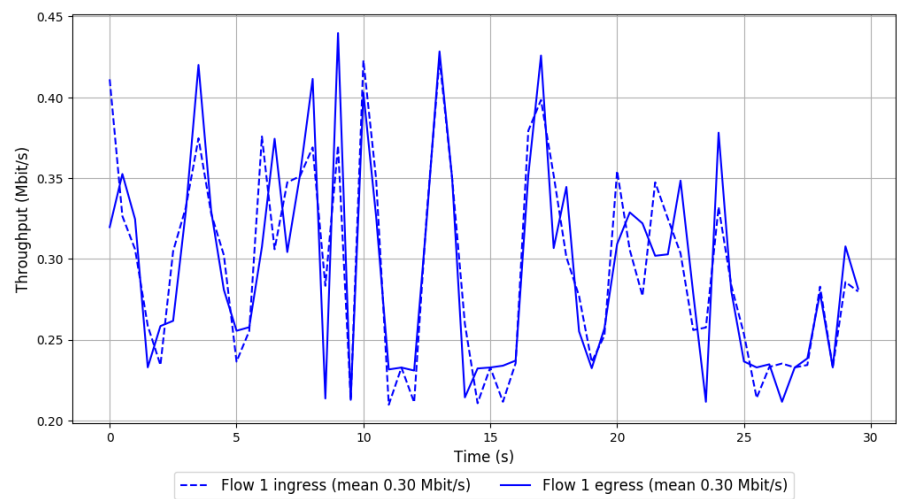
-- Flow 1:

Average throughput: 0.30 Mbit/s

95th percentile per-packet one-way delay: 37.804 ms

Loss rate: 0.26%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2017-08-21 22:22:41

End at: 2017-08-21 22:23:11

Local clock offset: 0.924 ms

Remote clock offset: 7.576 ms

Below is generated by plot.py at 2017-08-21 23:38:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.32 Mbit/s

95th percentile per-packet one-way delay: 40.583 ms

Loss rate: 0.25%

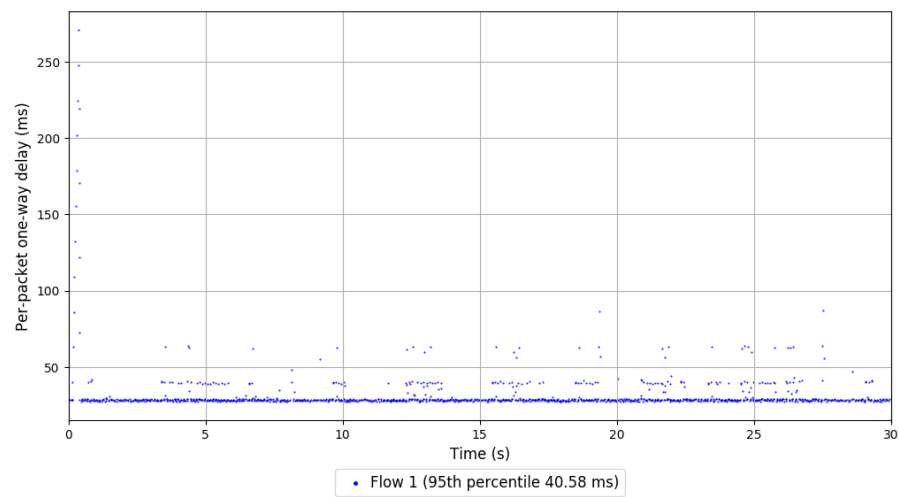
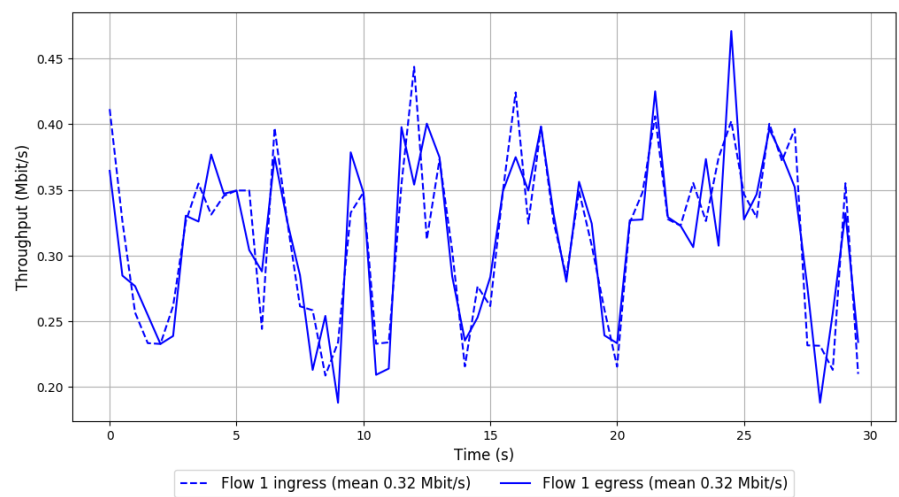
-- Flow 1:

Average throughput: 0.32 Mbit/s

95th percentile per-packet one-way delay: 40.583 ms

Loss rate: 0.25%

Run 6: Report of Sprout — Data Link

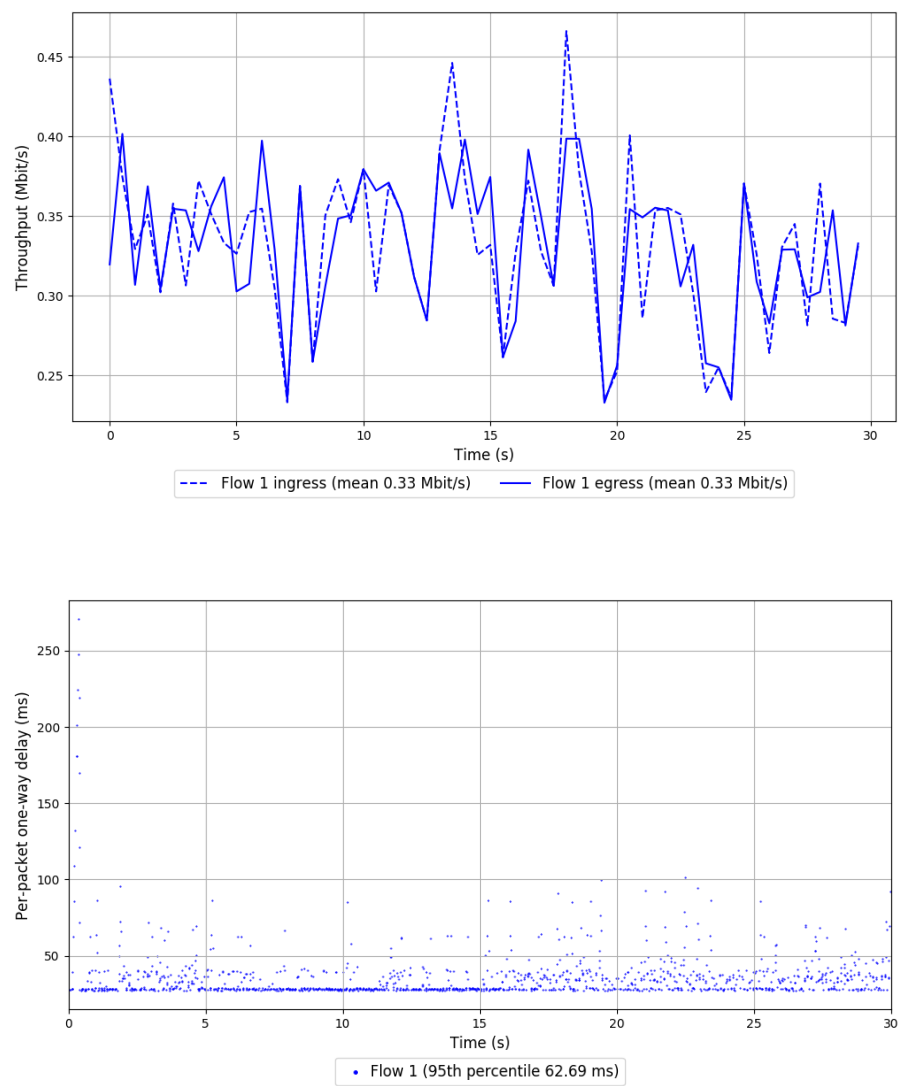


Run 7: Statistics of Sprout

Start at: 2017-08-21 22:40:10
End at: 2017-08-21 22:40:40
Local clock offset: 1.722 ms
Remote clock offset: 7.0 ms

Below is generated by plot.py at 2017-08-21 23:38:52
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.33 Mbit/s
95th percentile per-packet one-way delay: 62.687 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 0.33 Mbit/s
95th percentile per-packet one-way delay: 62.687 ms
Loss rate: 0.24%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2017-08-21 22:57:46

End at: 2017-08-21 22:58:16

Local clock offset: -5.8 ms

Remote clock offset: 0.139 ms

Below is generated by plot.py at 2017-08-21 23:38:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.30 Mbit/s

95th percentile per-packet one-way delay: 39.408 ms

Loss rate: 0.26%

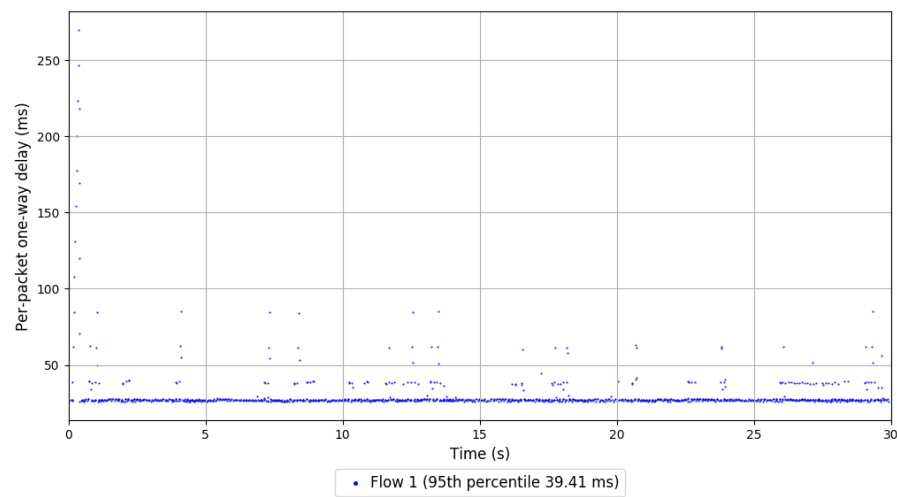
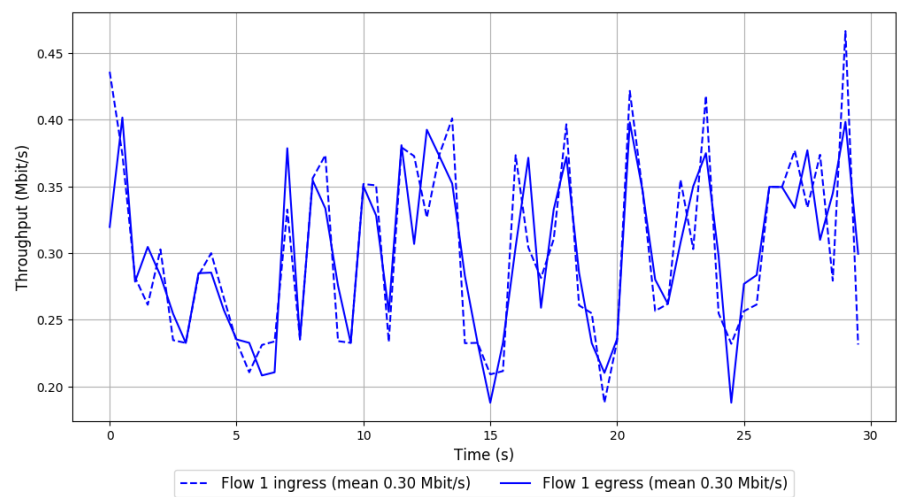
-- Flow 1:

Average throughput: 0.30 Mbit/s

95th percentile per-packet one-way delay: 39.408 ms

Loss rate: 0.26%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2017-08-21 23:15:12

End at: 2017-08-21 23:15:42

Local clock offset: -1.954 ms

Remote clock offset: 6.924 ms

Below is generated by plot.py at 2017-08-21 23:38:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.30 Mbit/s

95th percentile per-packet one-way delay: 44.115 ms

Loss rate: 0.00%

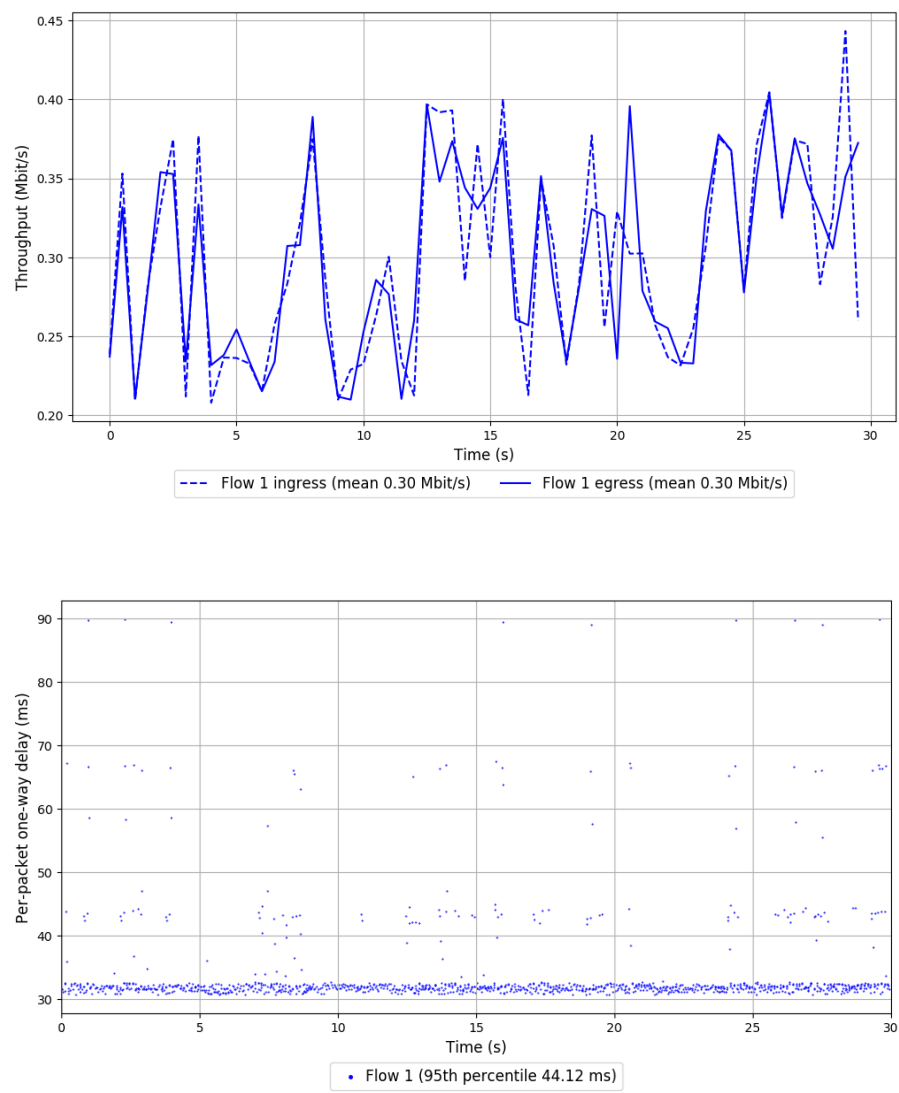
-- Flow 1:

Average throughput: 0.30 Mbit/s

95th percentile per-packet one-way delay: 44.115 ms

Loss rate: 0.00%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2017-08-21 23:32:37

End at: 2017-08-21 23:33:07

Local clock offset: 0.923 ms

Remote clock offset: 7.669 ms

Below is generated by plot.py at 2017-08-21 23:38:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.29 Mbit/s

95th percentile per-packet one-way delay: 40.007 ms

Loss rate: 0.27%

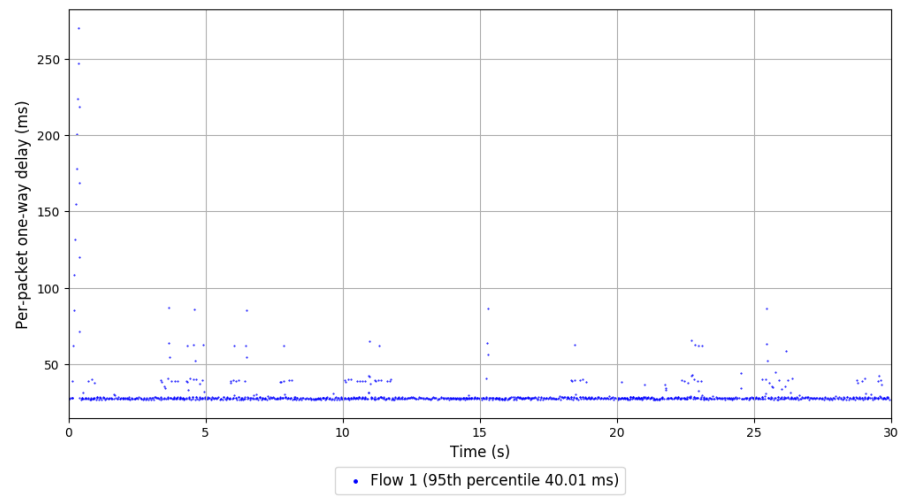
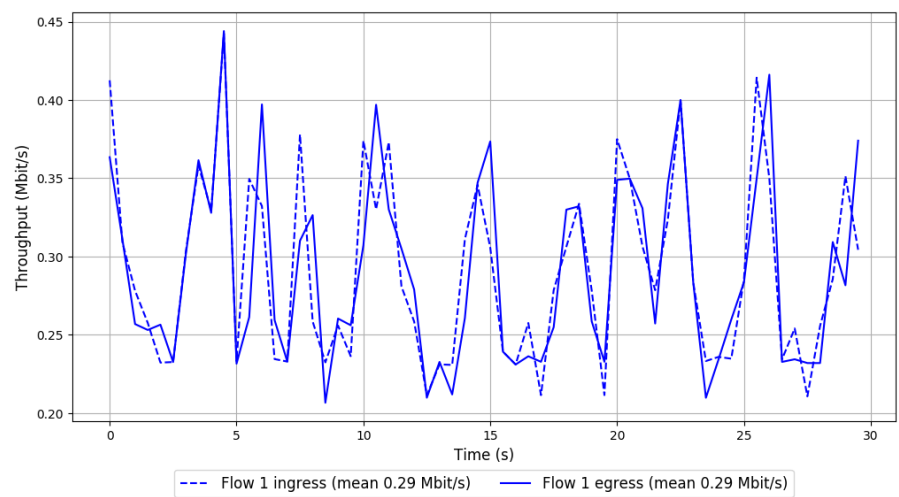
-- Flow 1:

Average throughput: 0.29 Mbit/s

95th percentile per-packet one-way delay: 40.007 ms

Loss rate: 0.27%

Run 10: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

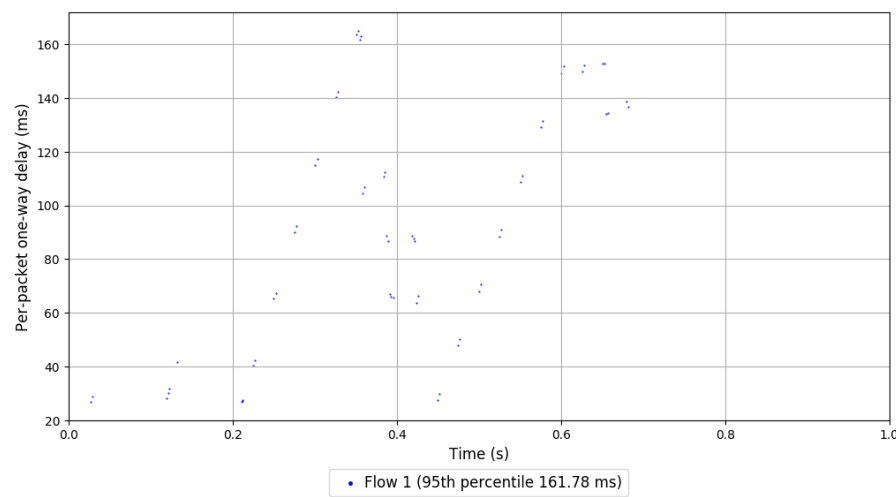
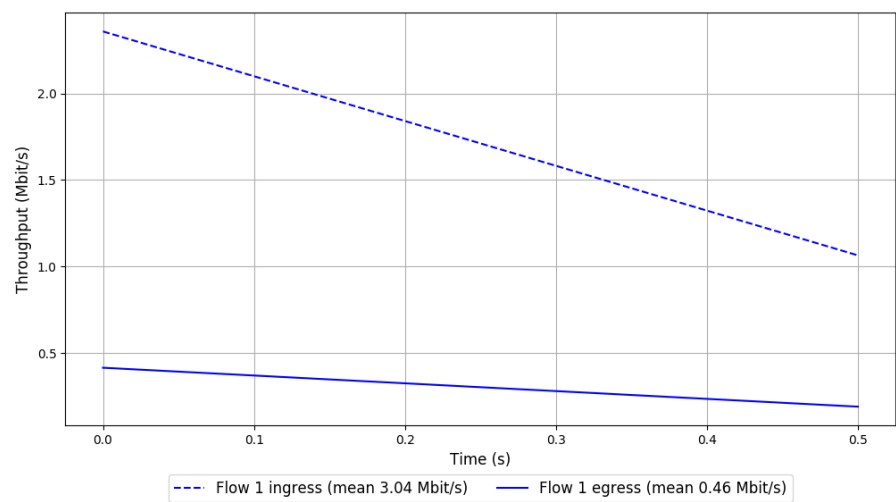
Start at: 2017-08-21 20:46:59

End at: 2017-08-21 20:47:29

Local clock offset: 2.553 ms

Remote clock offset: 7.631 ms

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



Run 2: Statistics of TaoVA-100x

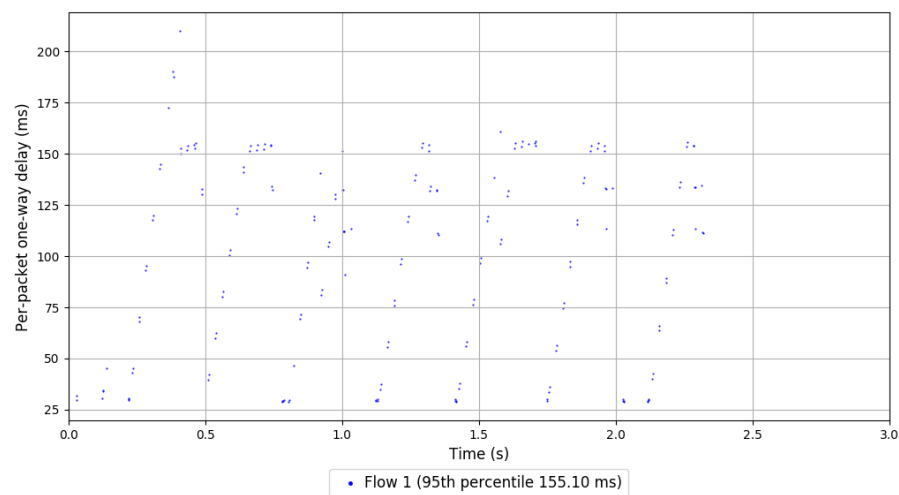
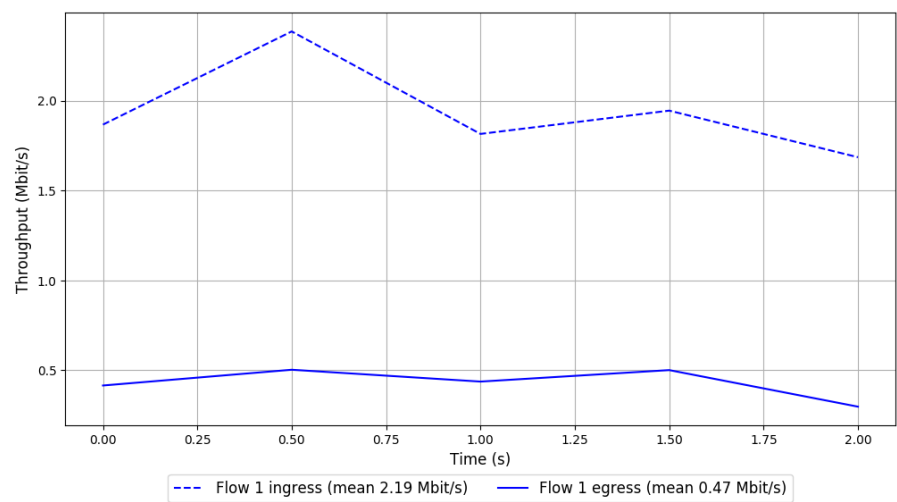
Start at: 2017-08-21 21:04:24

End at: 2017-08-21 21:04:54

Local clock offset: 0.353 ms

Remote clock offset: 7.762 ms

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



Run 3: Statistics of TaoVA-100x

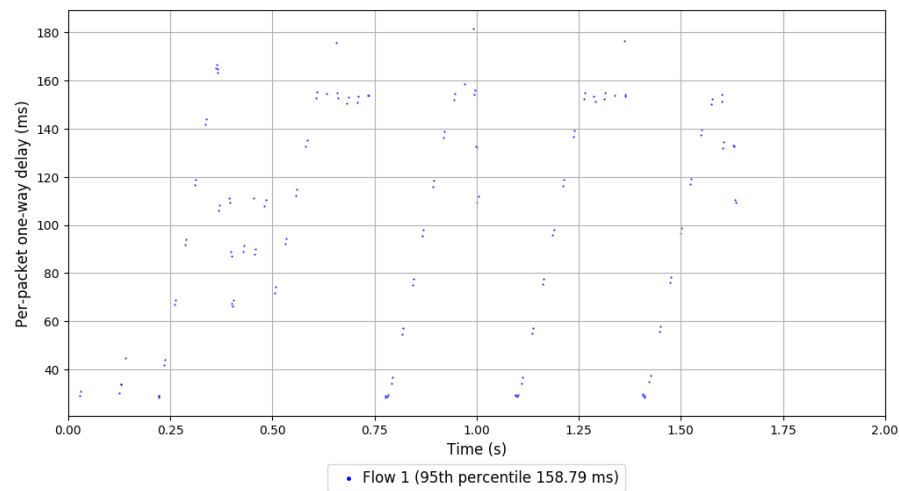
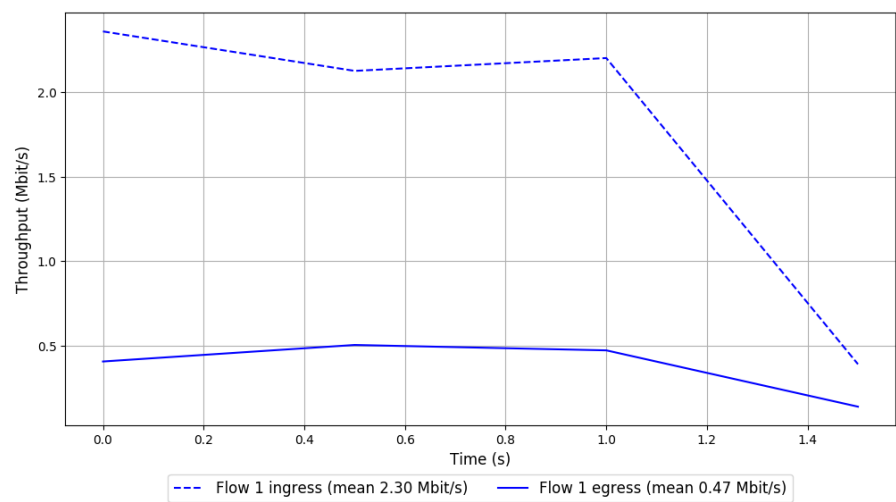
Start at: 2017-08-21 21:21:49

End at: 2017-08-21 21:22:19

Local clock offset: 1.862 ms

Remote clock offset: 7.726 ms

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



Run 4: Statistics of TaoVA-100x

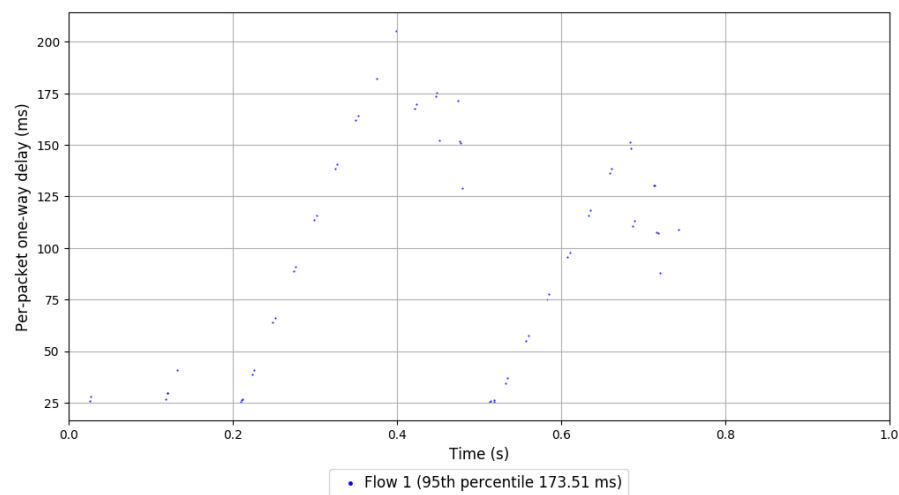
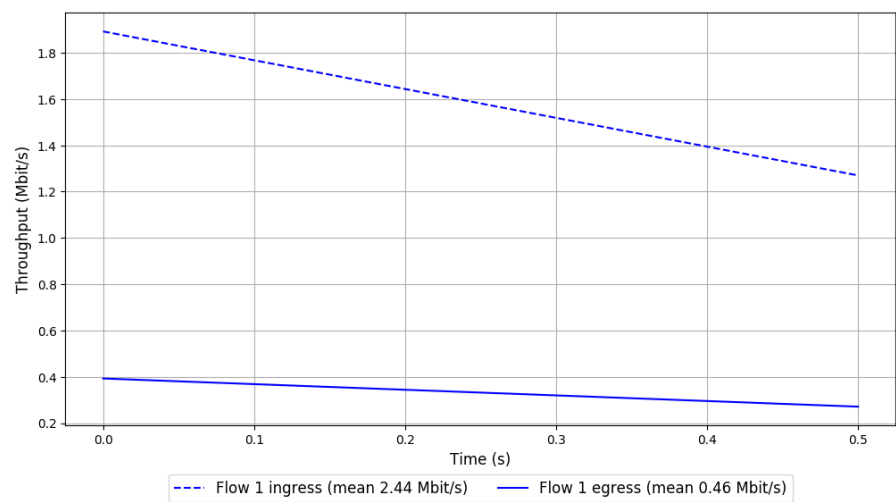
Start at: 2017-08-21 21:39:12

End at: 2017-08-21 21:39:42

Local clock offset: 3.184 ms

Remote clock offset: 7.819 ms

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



Run 5: Statistics of TaoVA-100x

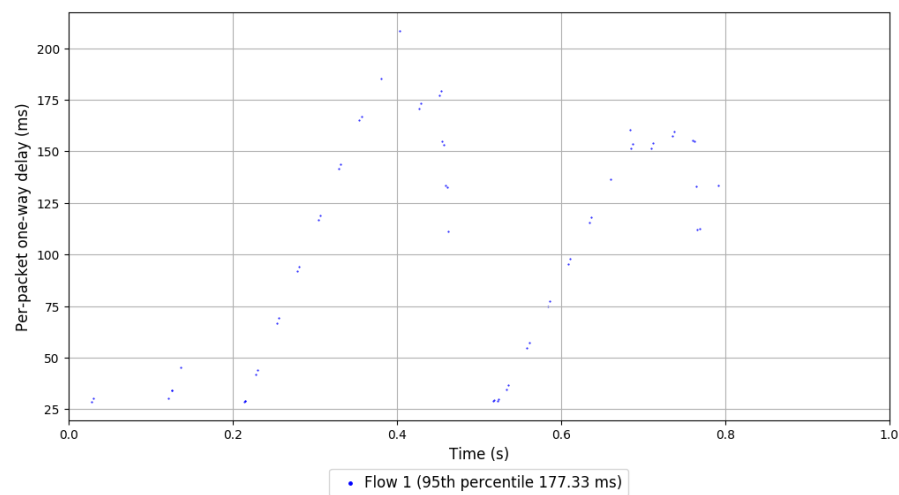
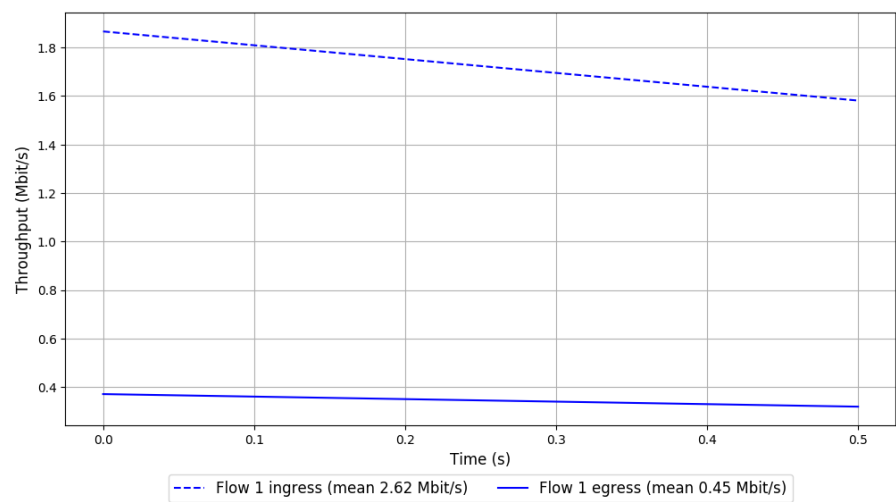
Start at: 2017-08-21 21:56:36

End at: 2017-08-21 21:57:06

Local clock offset: -0.006 ms

Remote clock offset: 7.544 ms

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



Run 6: Statistics of TaoVA-100x

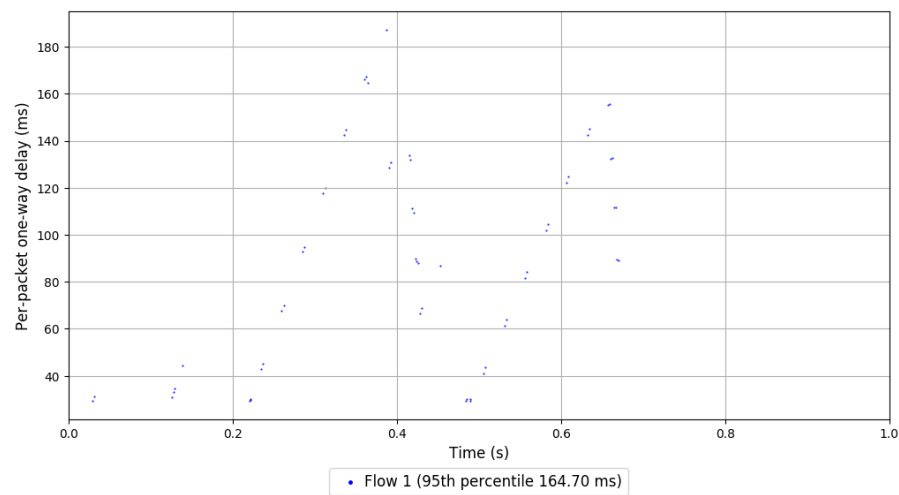
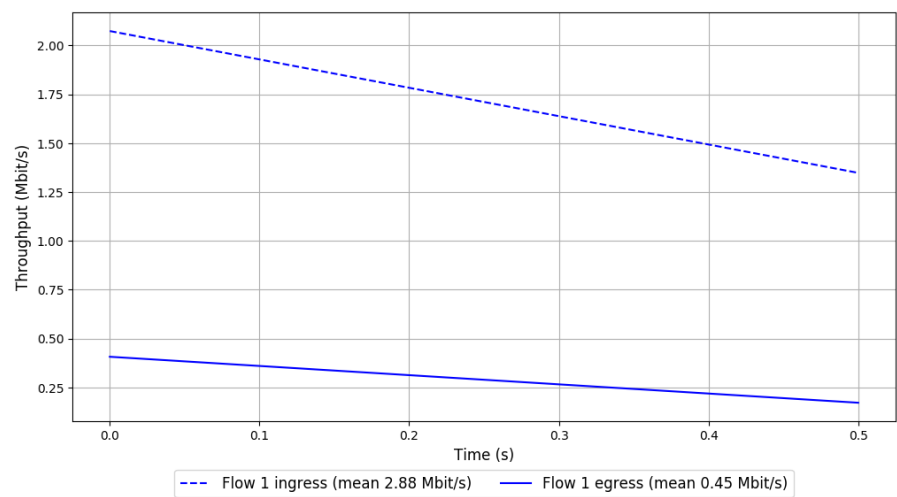
Start at: 2017-08-21 22:14:00

End at: 2017-08-21 22:14:30

Local clock offset: 1.023 ms

Remote clock offset: 7.18 ms

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



Run 7: Statistics of TaoVA-100x

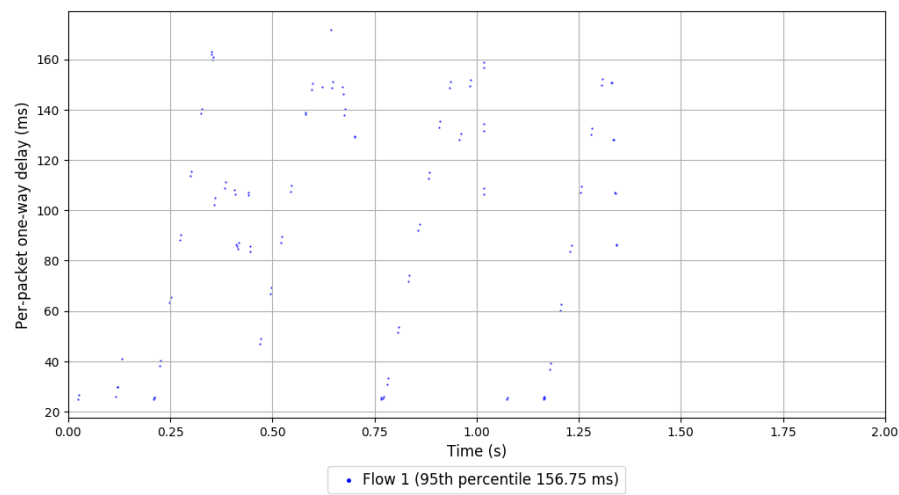
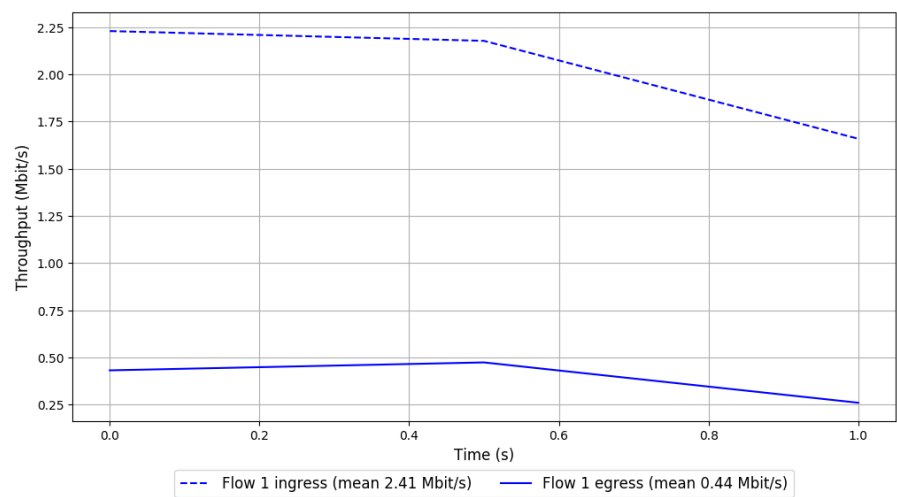
Start at: 2017-08-21 22:31:24

End at: 2017-08-21 22:31:54

Local clock offset: 2.872 ms

Remote clock offset: 7.013 ms

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



Run 8: Statistics of TaoVA-100x

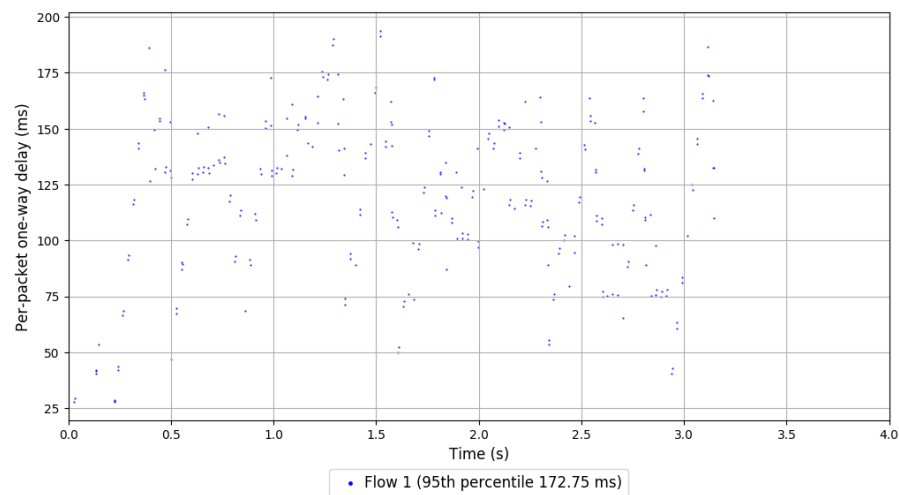
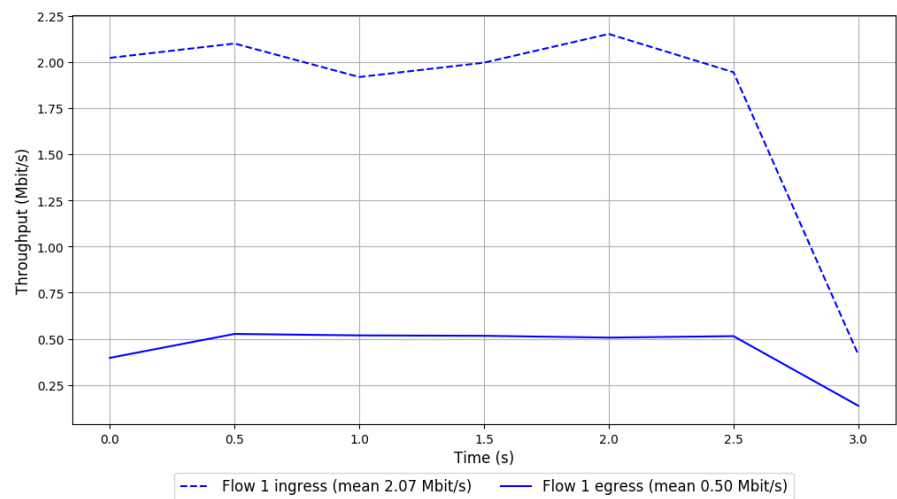
Start at: 2017-08-21 22:48:55

End at: 2017-08-21 22:49:25

Local clock offset: 0.666 ms

Remote clock offset: 7.664 ms

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



Run 9: Statistics of TaoVA-100x

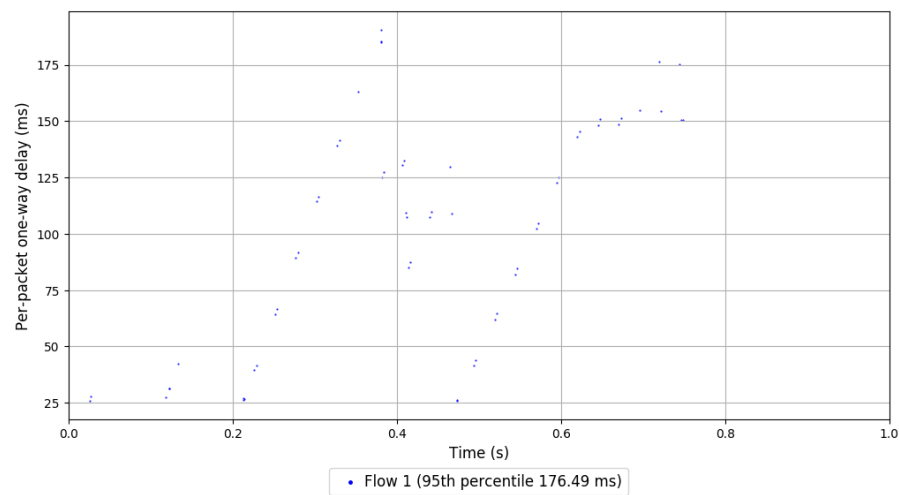
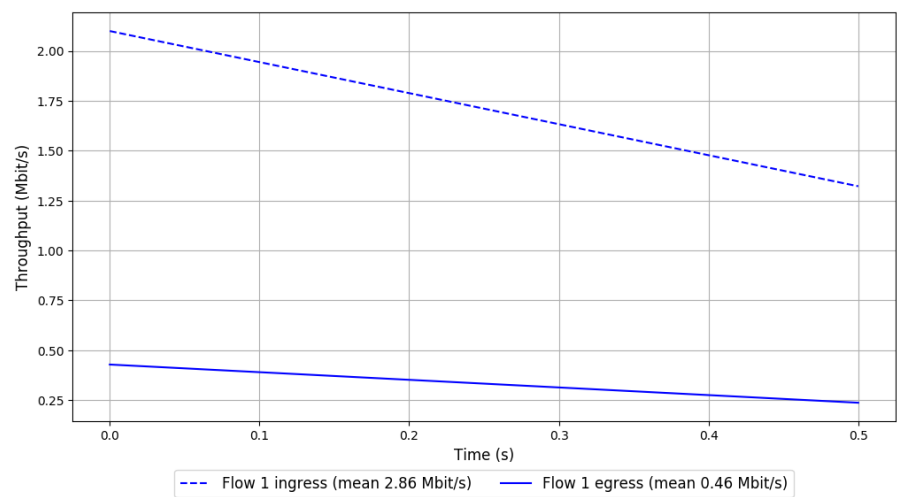
Start at: 2017-08-21 23:06:29

End at: 2017-08-21 23:06:59

Local clock offset: 2.21 ms

Remote clock offset: 7.468 ms

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



Run 10: Statistics of TaoVA-100x

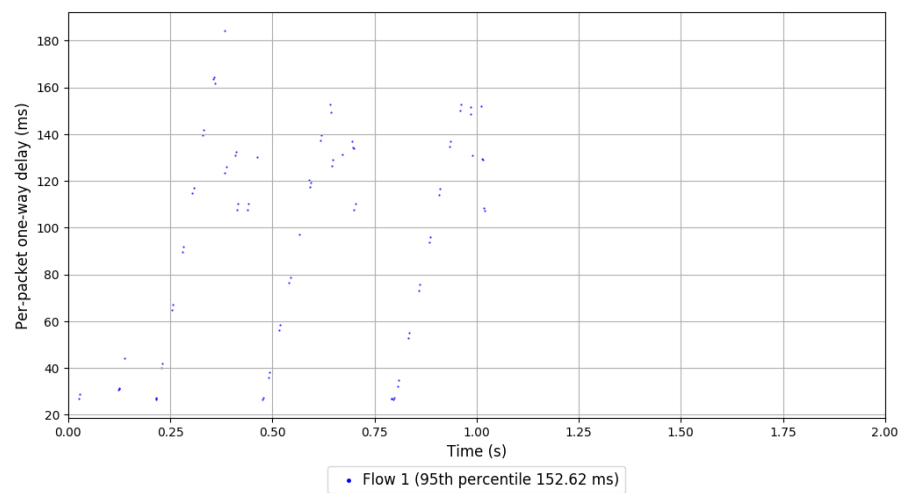
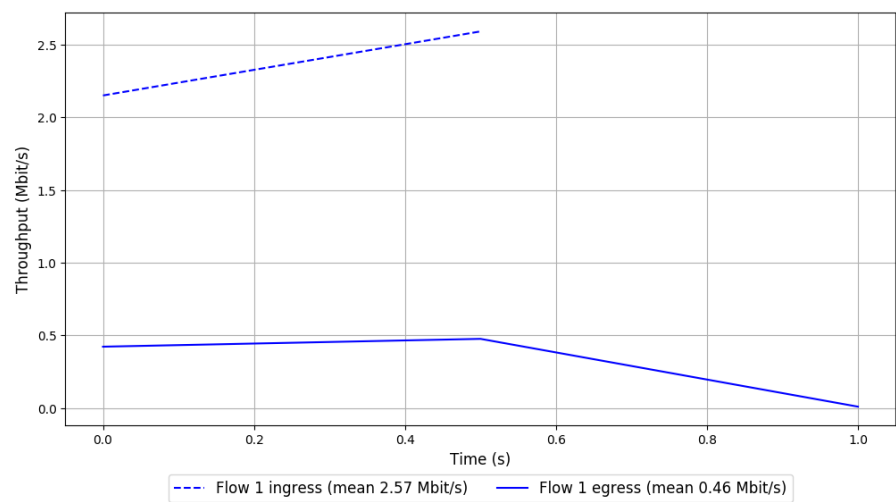
Start at: 2017-08-21 23:23:58

End at: 2017-08-21 23:24:28

Local clock offset: 1.321 ms

Remote clock offset: 7.32 ms

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



Run 1: Statistics of TCP Vegas

Start at: 2017-08-21 20:42:03

End at: 2017-08-21 20:42:33

Local clock offset: -1.685 ms

Remote clock offset: 8.321 ms

Below is generated by plot.py at 2017-08-21 23:38:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 199.173 ms

Loss rate: 1.08%

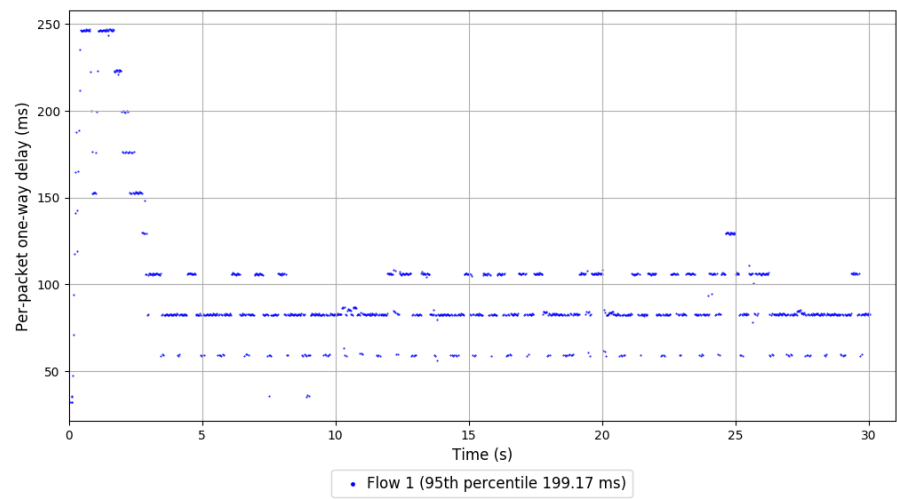
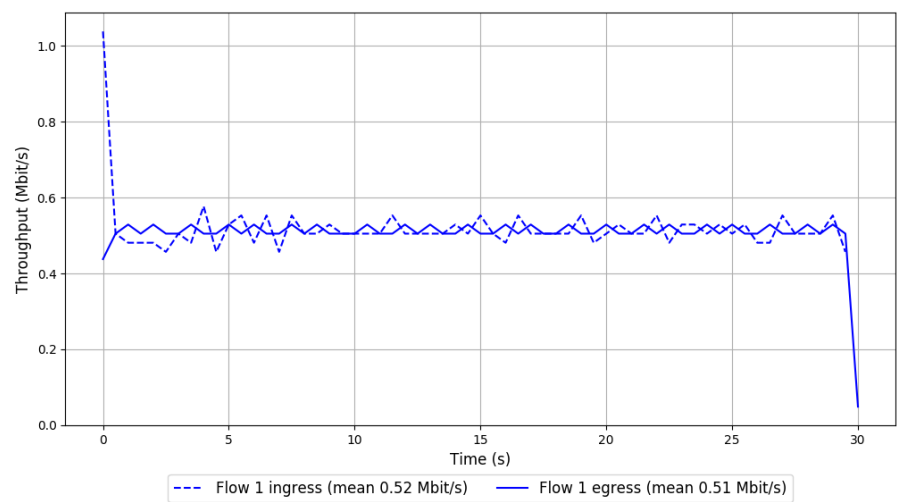
-- Flow 1:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 199.173 ms

Loss rate: 1.08%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2017-08-21 20:59:24

End at: 2017-08-21 20:59:54

Local clock offset: 1.723 ms

Remote clock offset: 7.36 ms

Below is generated by plot.py at 2017-08-21 23:39:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 125.216 ms

Loss rate: 1.16%

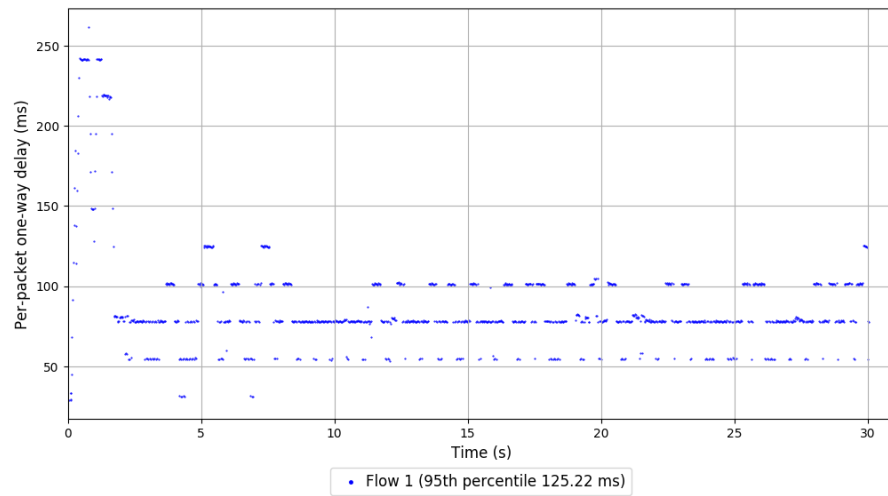
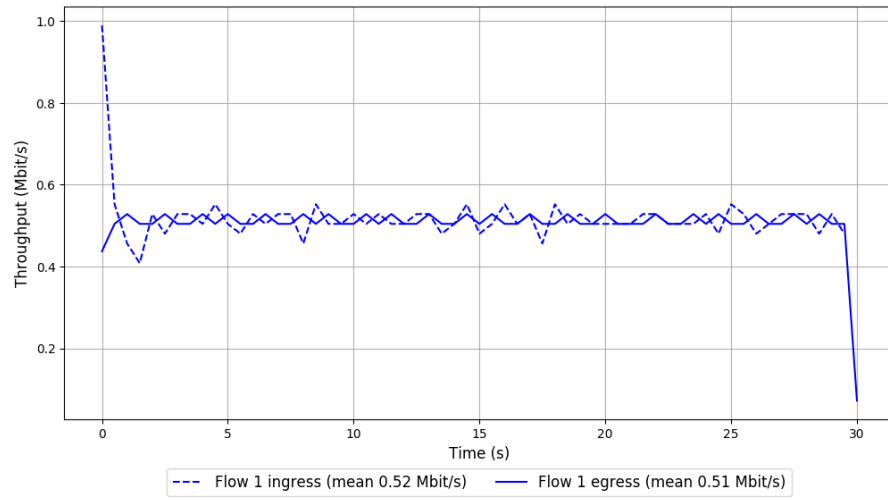
-- Flow 1:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 125.216 ms

Loss rate: 1.16%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2017-08-21 21:16:51

End at: 2017-08-21 21:17:21

Local clock offset: 2.711 ms

Remote clock offset: 7.302 ms

Below is generated by plot.py at 2017-08-21 23:39:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 125.225 ms

Loss rate: 1.08%

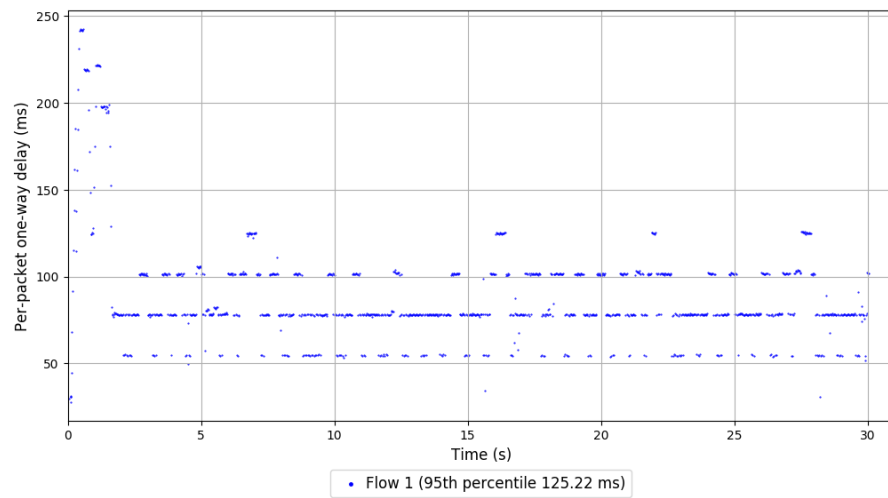
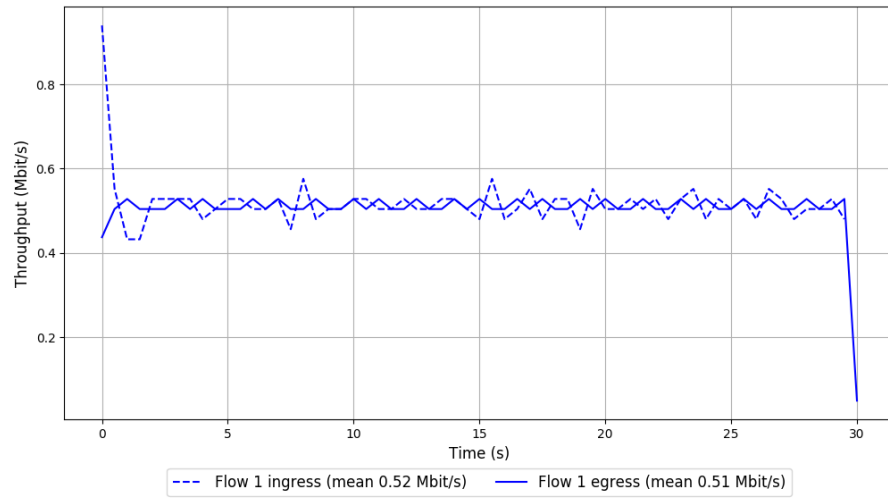
-- Flow 1:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 125.225 ms

Loss rate: 1.08%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2017-08-21 21:34:14

End at: 2017-08-21 21:34:44

Local clock offset: 1.469 ms

Remote clock offset: 6.826 ms

Below is generated by plot.py at 2017-08-21 23:39:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 195.300 ms

Loss rate: 1.00%

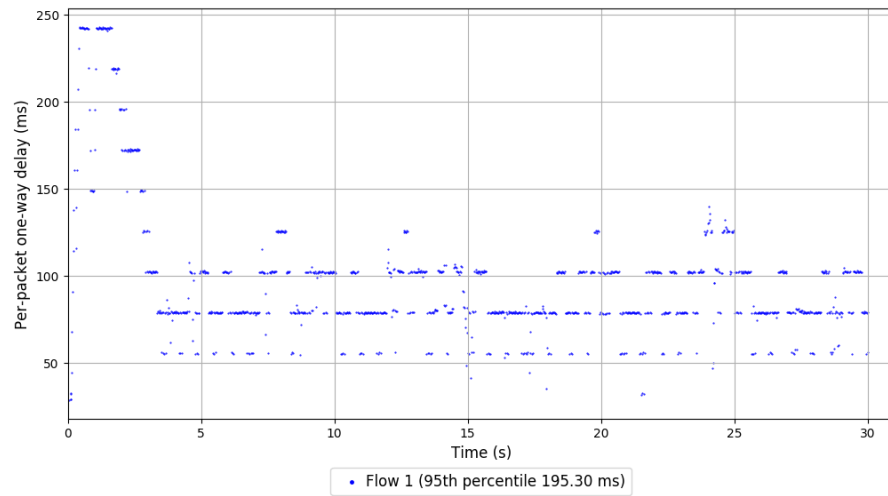
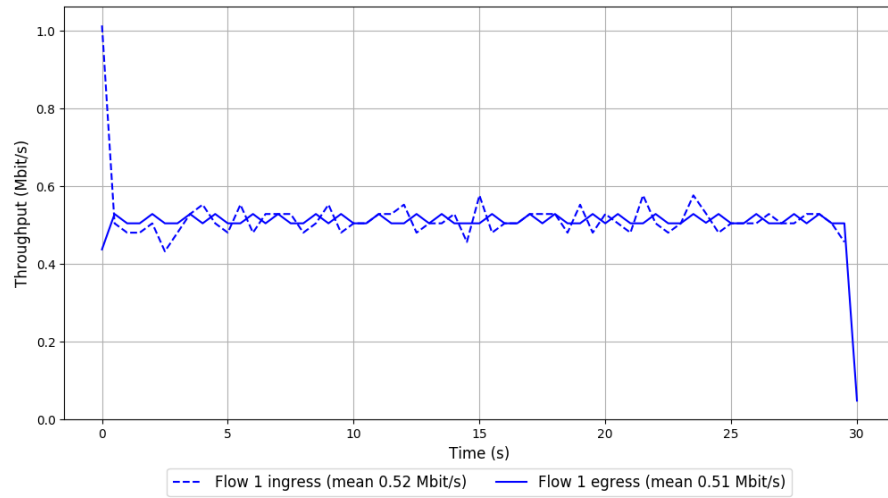
-- Flow 1:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 195.300 ms

Loss rate: 1.00%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2017-08-21 21:51:38

End at: 2017-08-21 21:52:08

Local clock offset: 0.802 ms

Remote clock offset: 7.086 ms

Below is generated by plot.py at 2017-08-21 23:39:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 172.794 ms

Loss rate: 0.93%

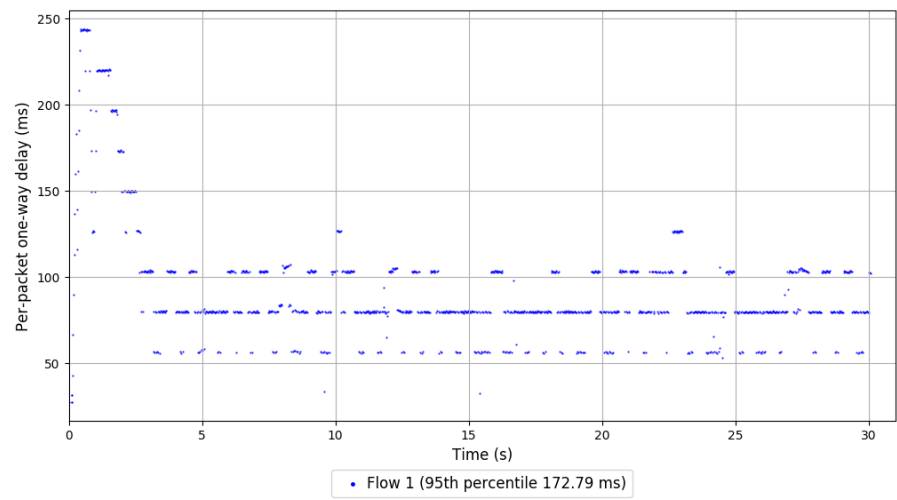
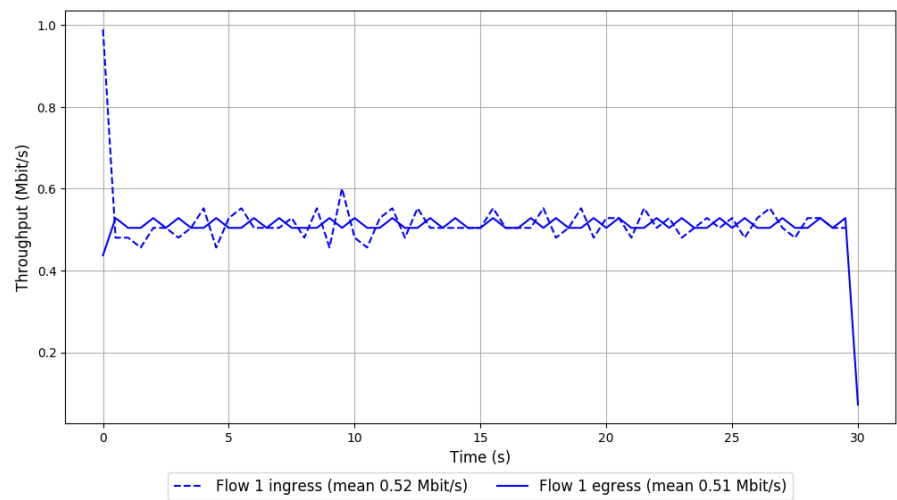
-- Flow 1:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 172.794 ms

Loss rate: 0.93%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2017-08-21 22:09:02

End at: 2017-08-21 22:09:32

Local clock offset: 0.669 ms

Remote clock offset: 7.53 ms

Below is generated by plot.py at 2017-08-21 23:39:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 196.155 ms

Loss rate: 1.01%

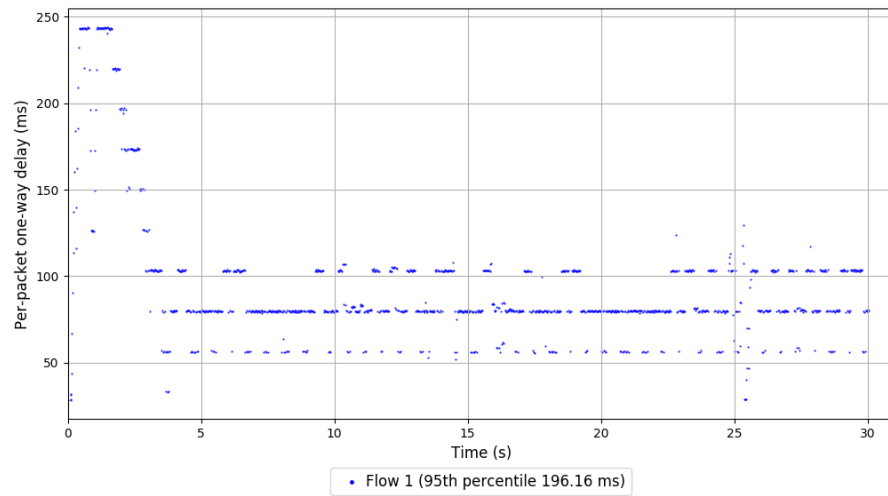
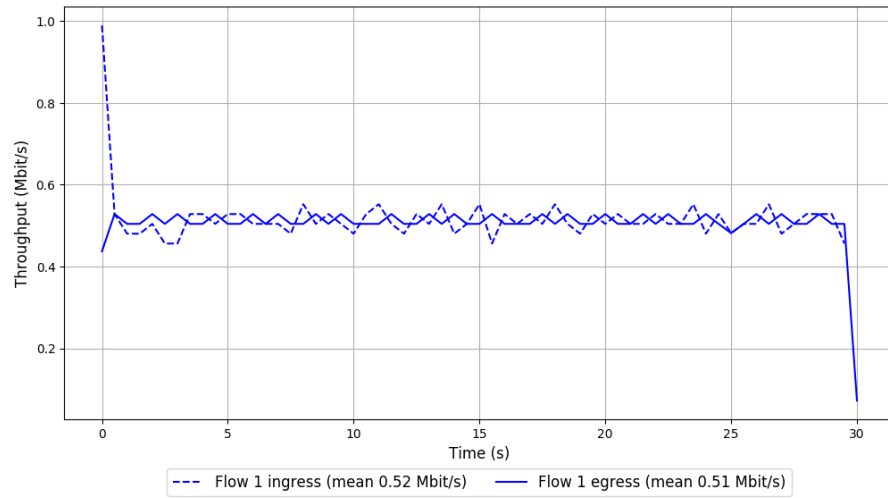
-- Flow 1:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 196.155 ms

Loss rate: 1.01%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2017-08-21 22:26:26

End at: 2017-08-21 22:26:56

Local clock offset: 1.004 ms

Remote clock offset: 7.594 ms

Below is generated by plot.py at 2017-08-21 23:39:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 172.926 ms

Loss rate: 0.93%

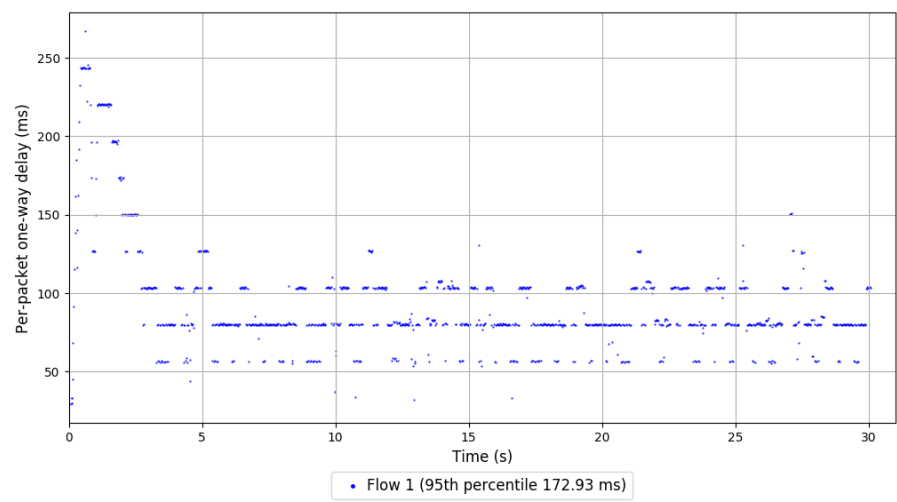
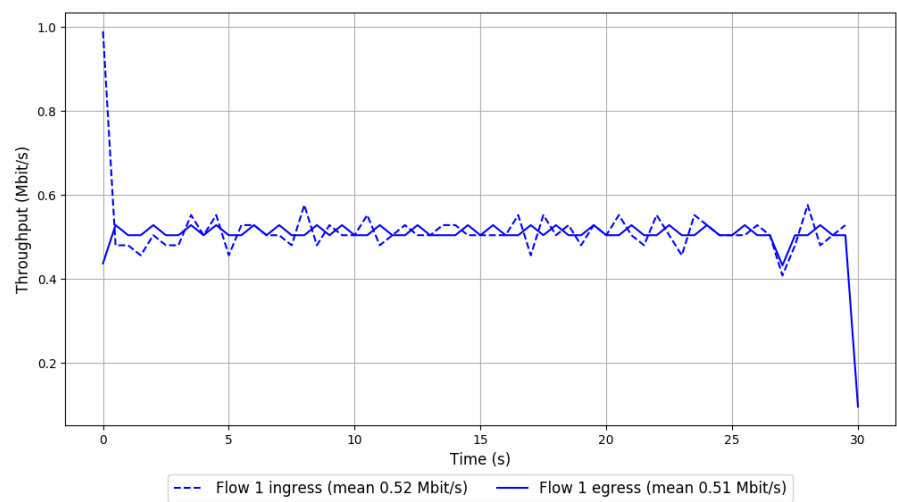
-- Flow 1:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 172.926 ms

Loss rate: 0.93%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2017-08-21 22:43:56

End at: 2017-08-21 22:44:26

Local clock offset: 1.634 ms

Remote clock offset: 7.034 ms

Below is generated by plot.py at 2017-08-21 23:39:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 216.251 ms

Loss rate: 1.01%

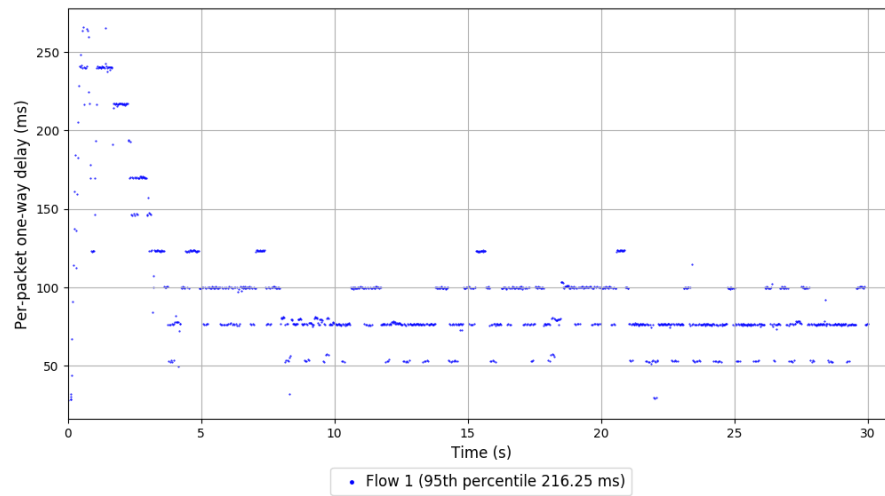
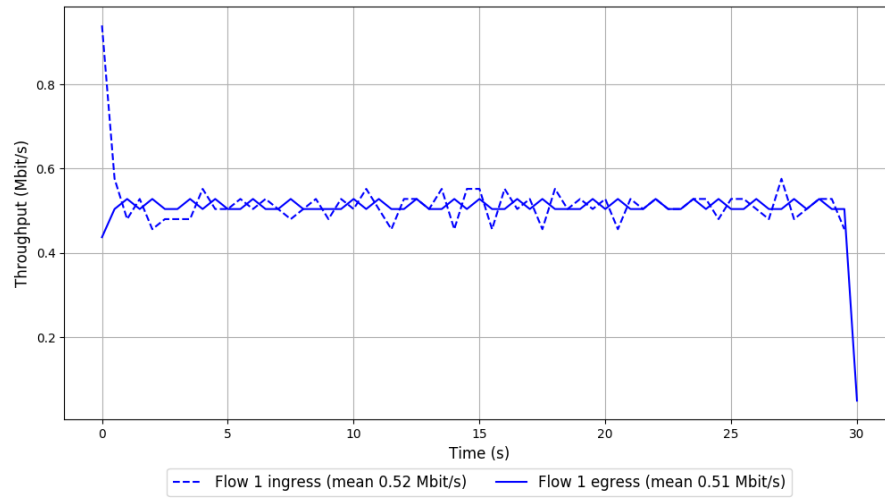
-- Flow 1:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 216.251 ms

Loss rate: 1.01%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2017-08-21 23:01:31

End at: 2017-08-21 23:02:01

Local clock offset: 0.943 ms

Remote clock offset: 7.26 ms

Below is generated by plot.py at 2017-08-21 23:39:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 193.081 ms

Loss rate: 1.00%

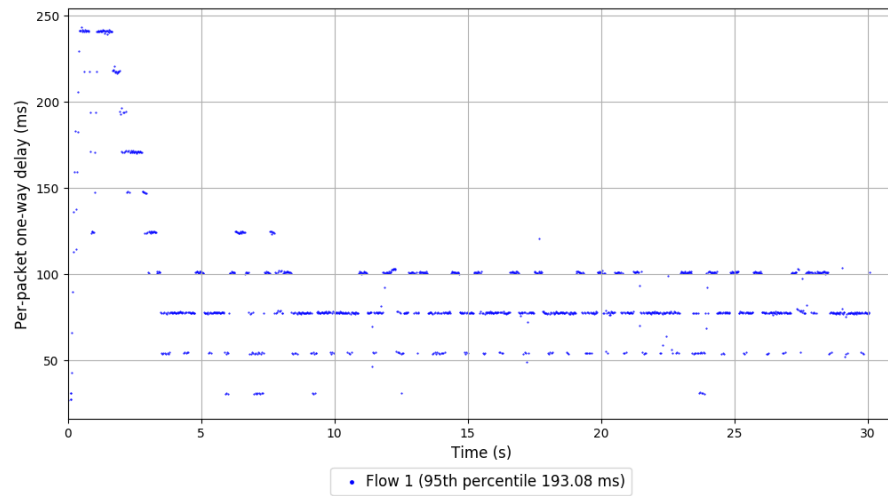
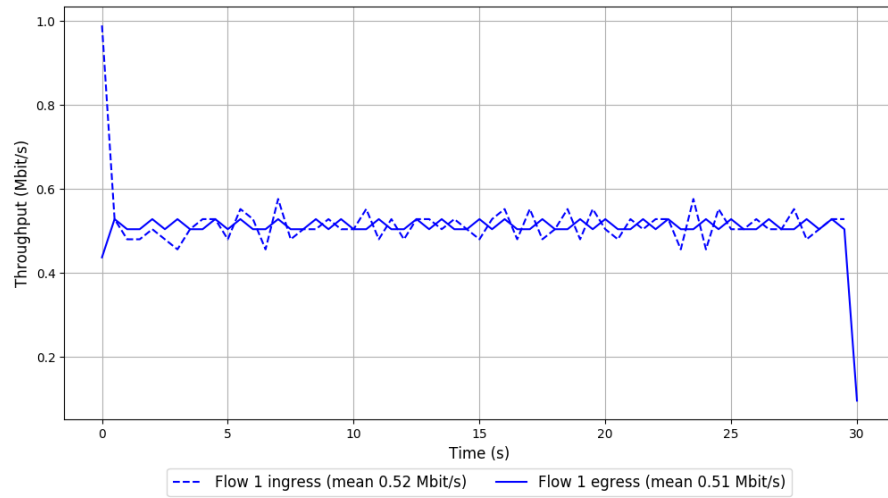
-- Flow 1:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 193.081 ms

Loss rate: 1.00%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2017-08-21 23:18:57

End at: 2017-08-21 23:19:27

Local clock offset: -1.723 ms

Remote clock offset: 7.001 ms

Below is generated by plot.py at 2017-08-21 23:39:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 172.807 ms

Loss rate: 0.93%

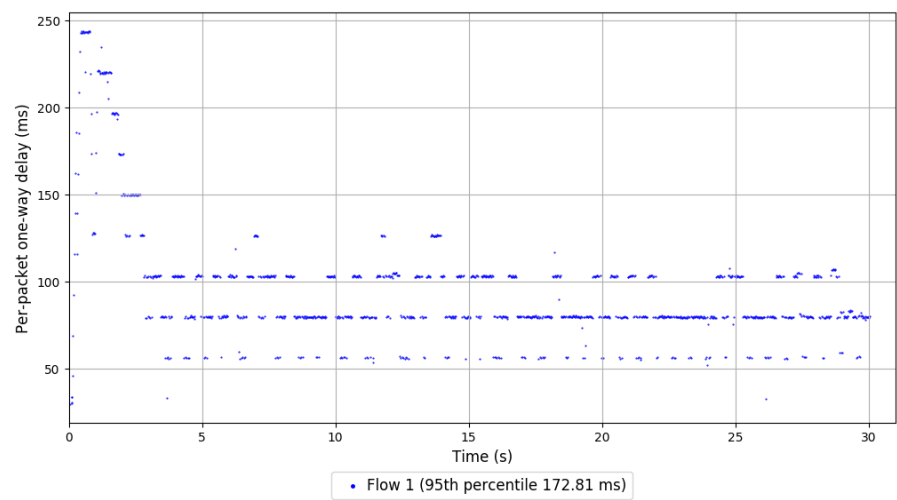
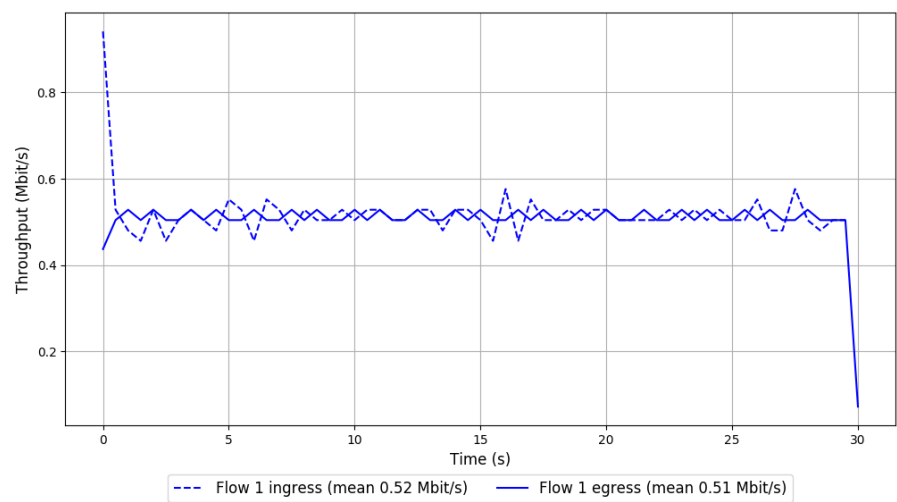
-- Flow 1:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 172.807 ms

Loss rate: 0.93%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2017-08-21 20:50:41

End at: 2017-08-21 20:51:11

Local clock offset: 2.72 ms

Remote clock offset: 6.944 ms

Below is generated by plot.py at 2017-08-21 23:39:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 255.670 ms

Loss rate: 18.53%

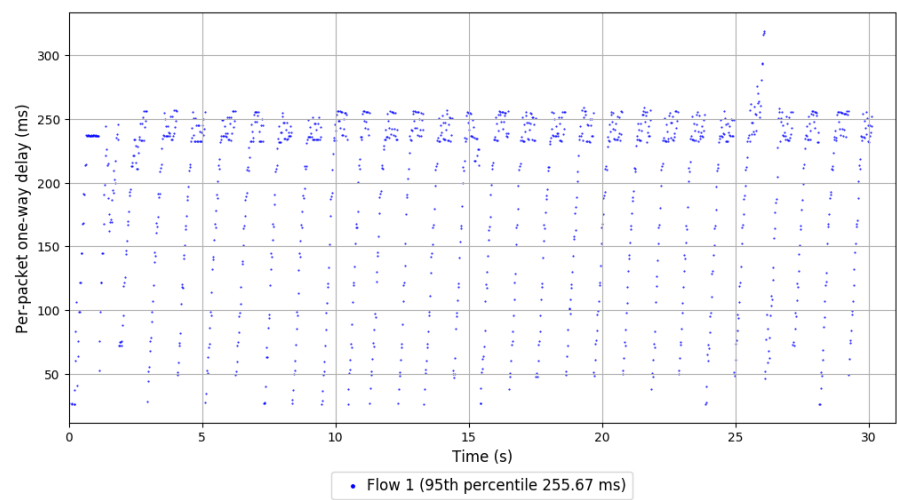
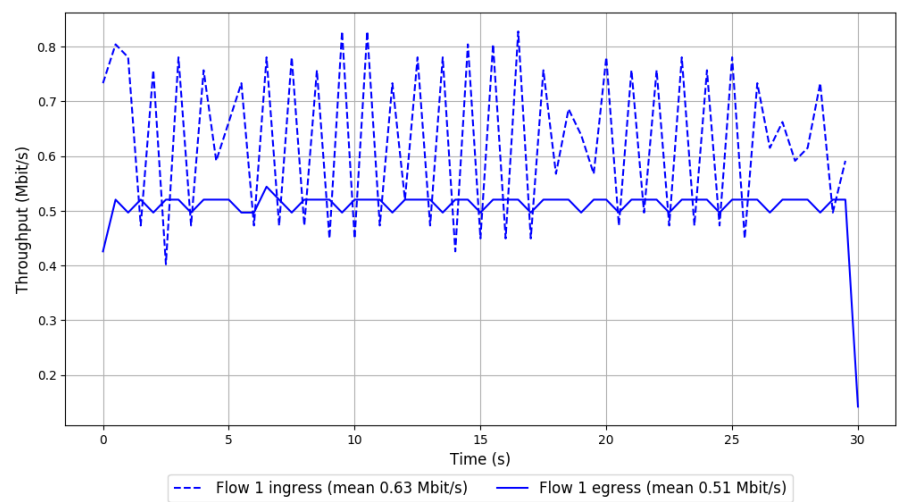
-- Flow 1:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 255.670 ms

Loss rate: 18.53%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2017-08-21 21:08:08

End at: 2017-08-21 21:08:38

Local clock offset: -0.743 ms

Remote clock offset: 7.488 ms

Below is generated by plot.py at 2017-08-21 23:39:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 259.507 ms

Loss rate: 19.47%

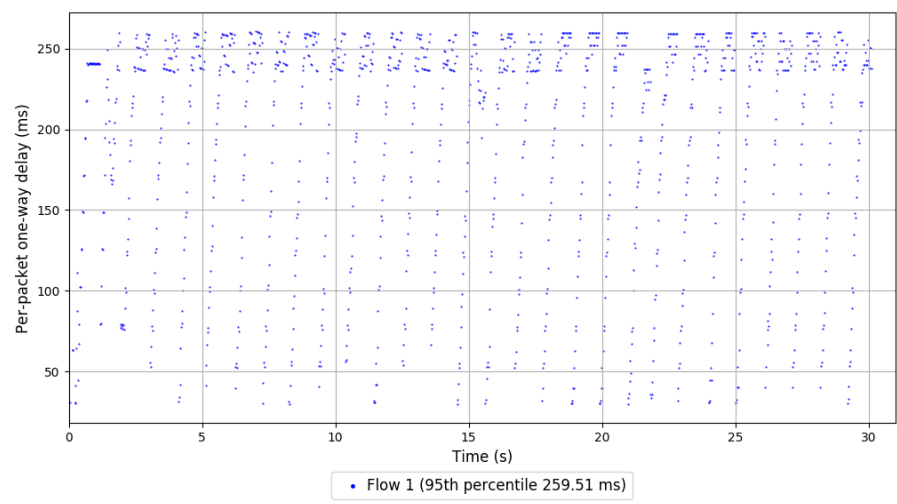
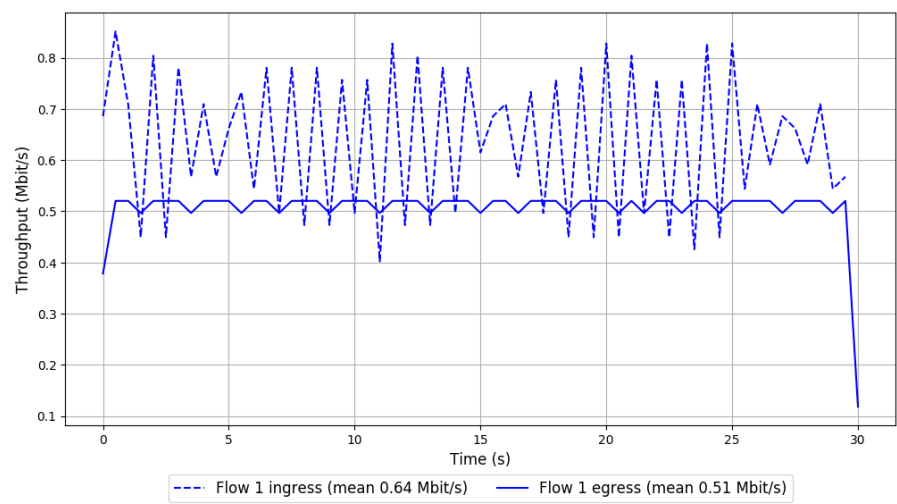
-- Flow 1:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 259.507 ms

Loss rate: 19.47%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2017-08-21 21:25:32

End at: 2017-08-21 21:26:02

Local clock offset: -0.361 ms

Remote clock offset: 7.781 ms

Below is generated by plot.py at 2017-08-21 23:39:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 261.392 ms

Loss rate: 19.85%

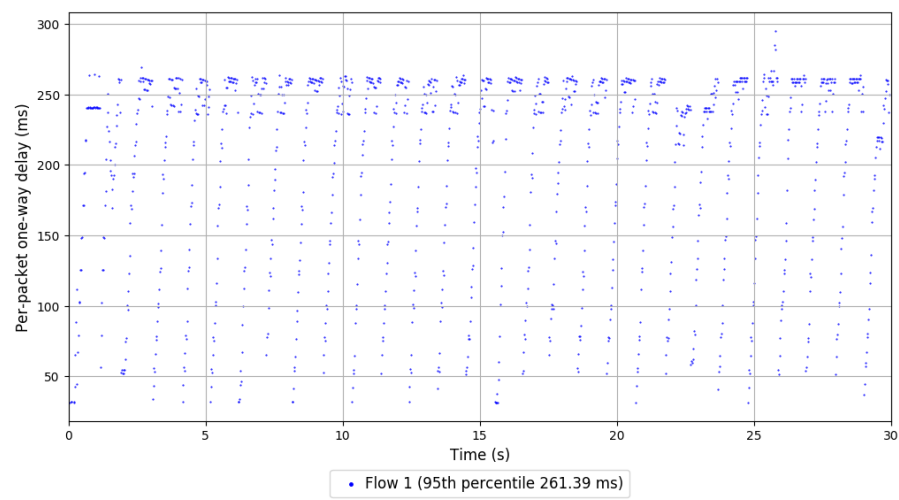
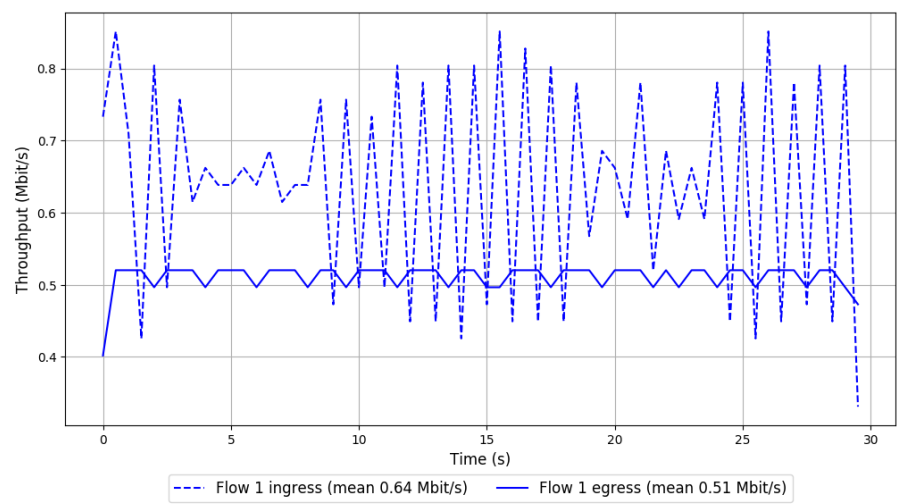
-- Flow 1:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 261.392 ms

Loss rate: 19.85%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2017-08-21 21:42:54

End at: 2017-08-21 21:43:24

Local clock offset: 2.27 ms

Remote clock offset: 5.689 ms

Below is generated by plot.py at 2017-08-21 23:39:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 255.585 ms

Loss rate: 20.92%

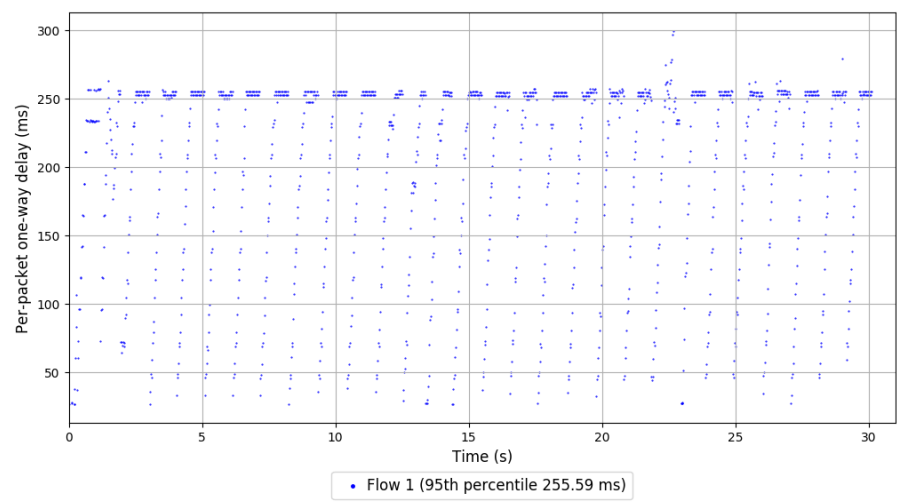
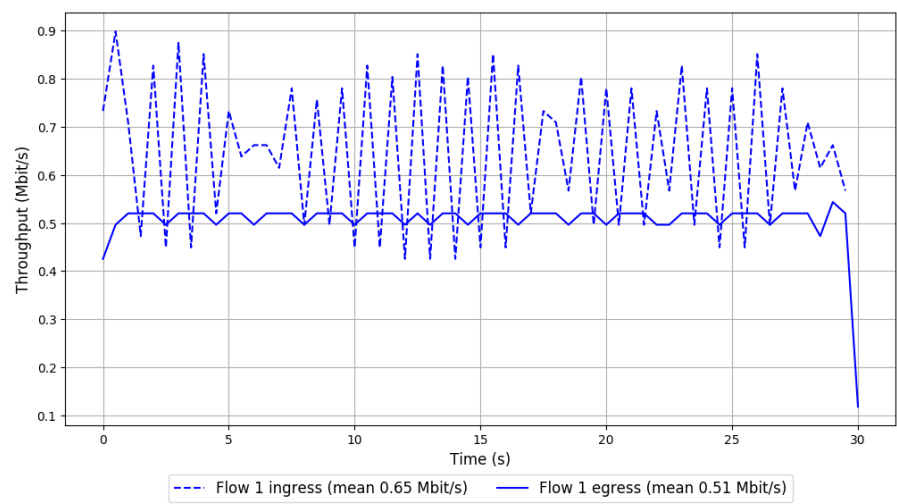
-- Flow 1:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 255.585 ms

Loss rate: 20.92%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2017-08-21 22:00:18

End at: 2017-08-21 22:00:48

Local clock offset: -1.451 ms

Remote clock offset: 6.867 ms

Below is generated by plot.py at 2017-08-21 23:39:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 258.855 ms

Loss rate: 20.09%

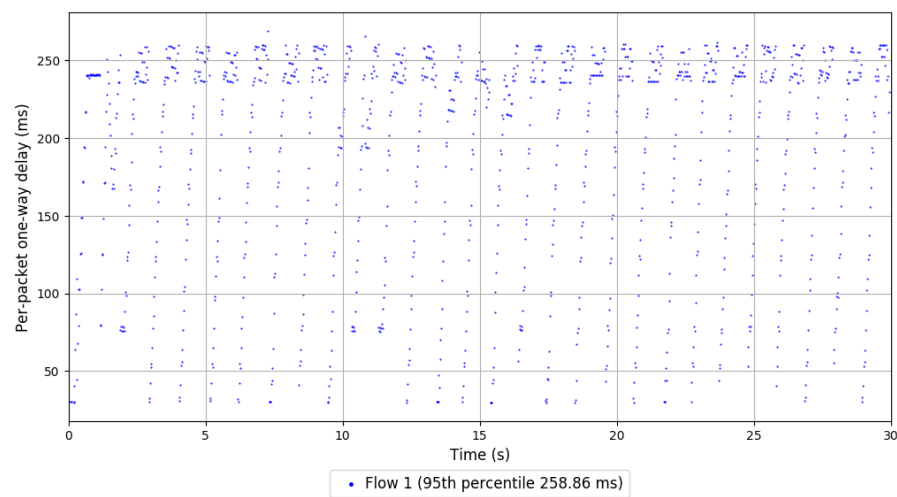
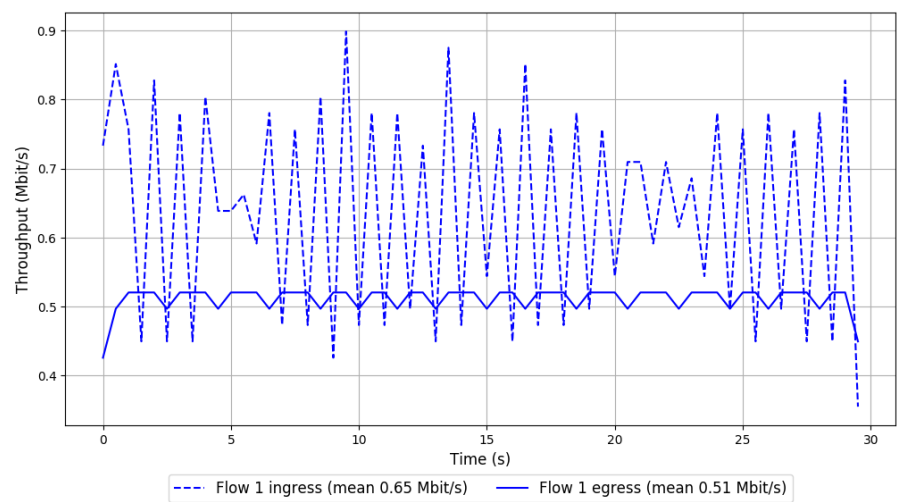
-- Flow 1:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 258.855 ms

Loss rate: 20.09%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2017-08-21 22:17:42

End at: 2017-08-21 22:18:12

Local clock offset: 1.165 ms

Remote clock offset: 7.227 ms

Below is generated by plot.py at 2017-08-21 23:39:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 259.004 ms

Loss rate: 19.29%

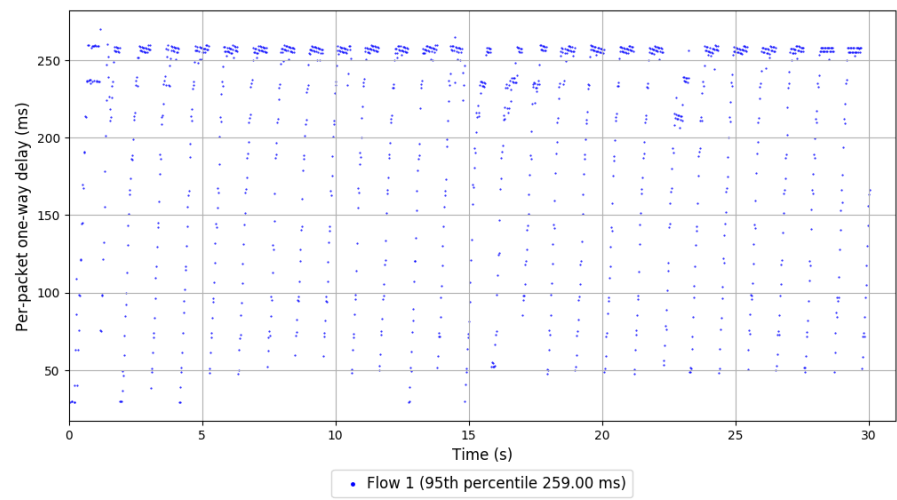
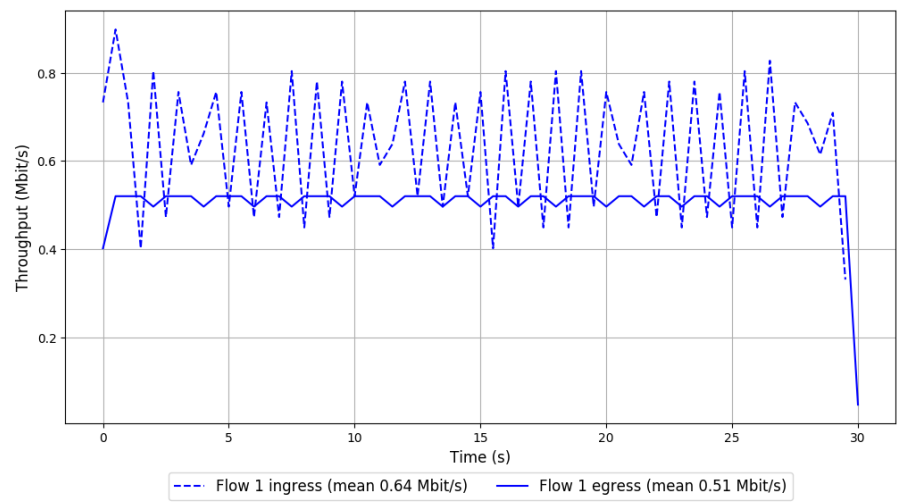
-- Flow 1:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 259.004 ms

Loss rate: 19.29%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2017-08-21 22:35:08

End at: 2017-08-21 22:35:39

Local clock offset: 0.878 ms

Remote clock offset: 6.475 ms

Below is generated by plot.py at 2017-08-21 23:39:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 258.065 ms

Loss rate: 19.79%

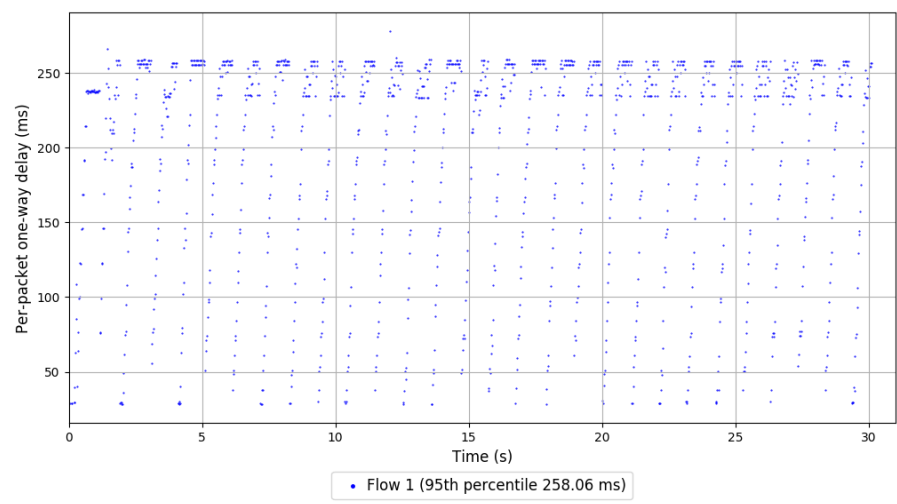
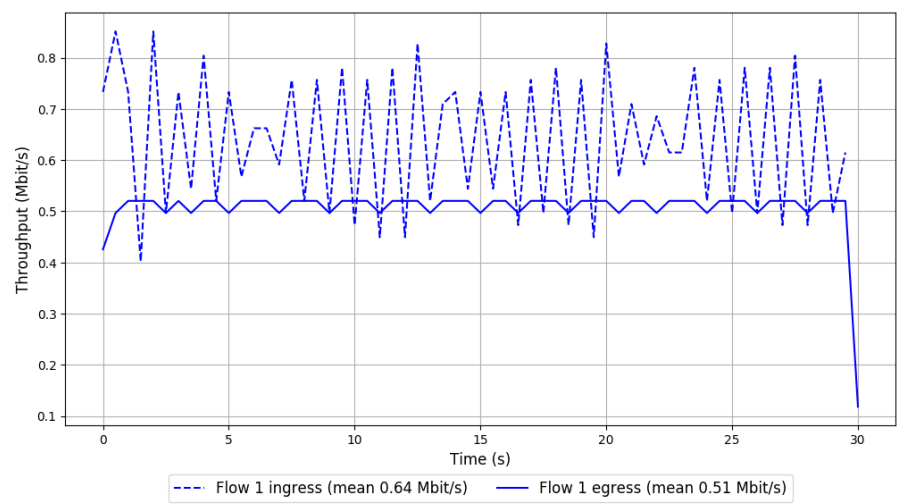
-- Flow 1:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 258.065 ms

Loss rate: 19.79%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2017-08-21 22:52:39

End at: 2017-08-21 22:53:09

Local clock offset: 1.564 ms

Remote clock offset: 7.478 ms

Below is generated by plot.py at 2017-08-21 23:39:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.50 Mbit/s

95th percentile per-packet one-way delay: 256.866 ms

Loss rate: 23.27%

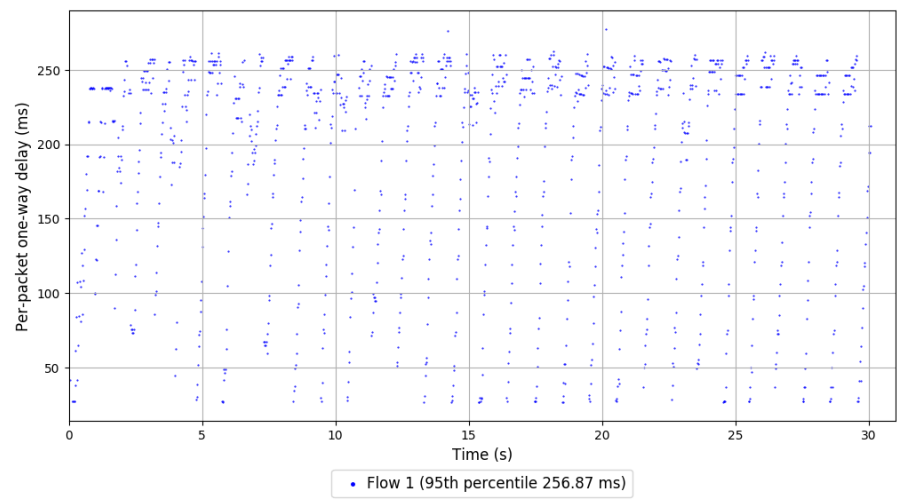
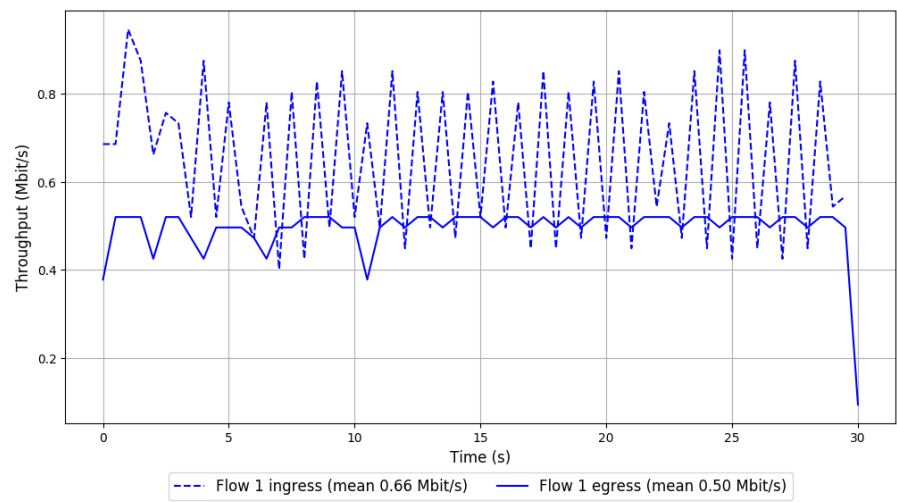
-- Flow 1:

Average throughput: 0.50 Mbit/s

95th percentile per-packet one-way delay: 256.866 ms

Loss rate: 23.27%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2017-08-21 23:10:12

End at: 2017-08-21 23:10:42

Local clock offset: -2.416 ms

Remote clock offset: 6.668 ms

Below is generated by plot.py at 2017-08-21 23:39:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 259.569 ms

Loss rate: 19.33%

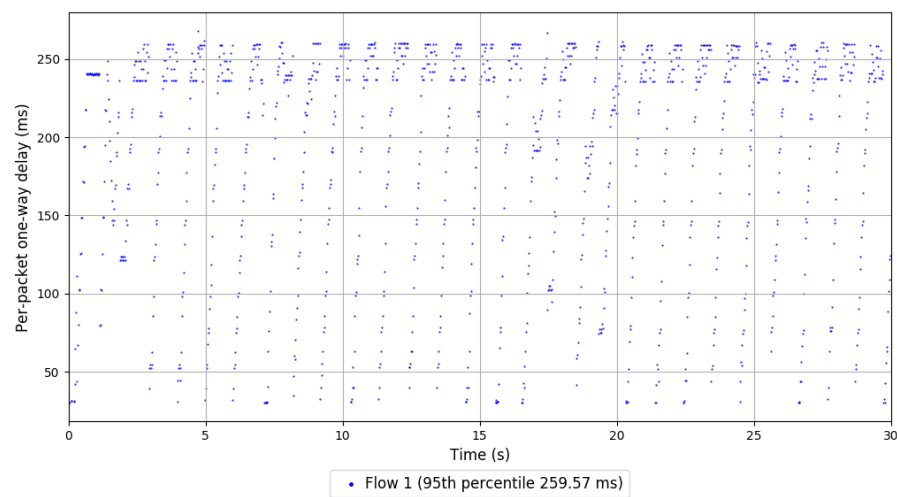
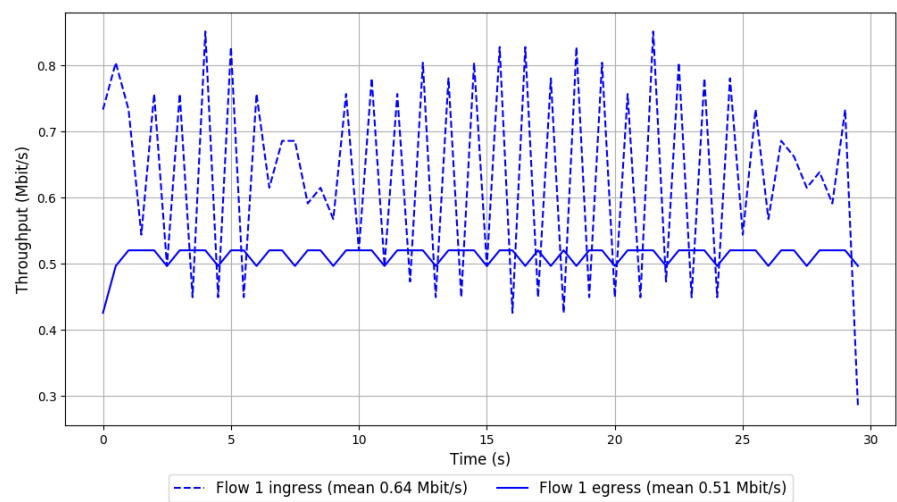
-- Flow 1:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 259.569 ms

Loss rate: 19.33%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2017-08-21 23:27:39

End at: 2017-08-21 23:28:09

Local clock offset: 1.551 ms

Remote clock offset: 6.883 ms

Below is generated by plot.py at 2017-08-21 23:39:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 257.831 ms

Loss rate: 21.52%

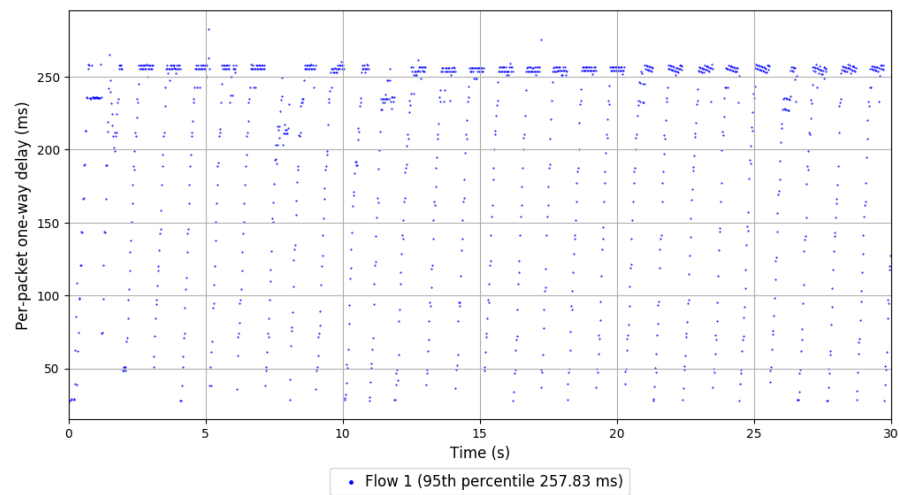
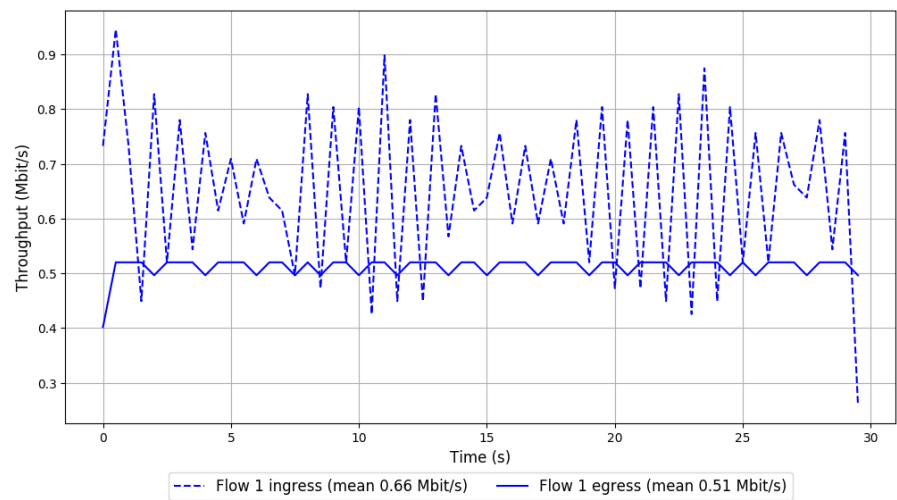
-- Flow 1:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 257.831 ms

Loss rate: 21.52%

Run 10: Report of Verus — Data Link



Run 1: Statistics of WebRTC media

Start at: 2017-08-21 20:48:13

End at: 2017-08-21 20:48:43

Local clock offset: 2.564 ms

Remote clock offset: 6.518 ms

Below is generated by plot.py at 2017-08-21 23:39:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.25 Mbit/s

95th percentile per-packet one-way delay: 218.484 ms

Loss rate: 17.31%

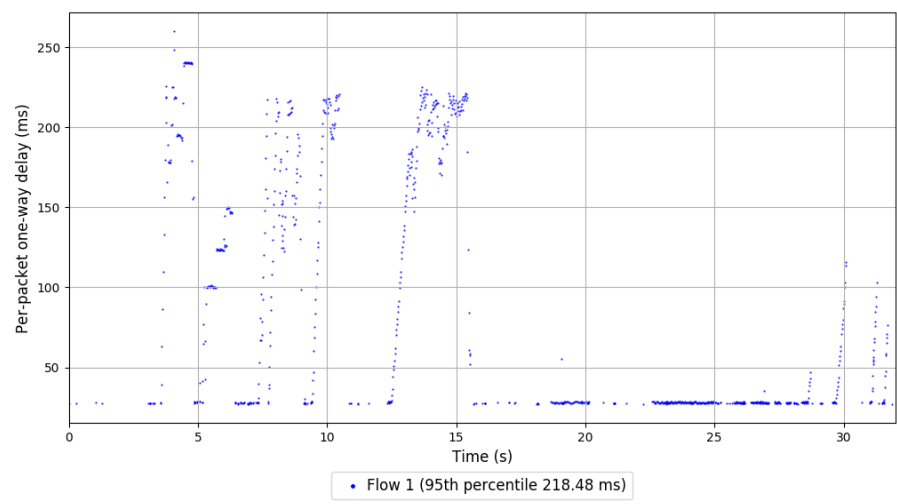
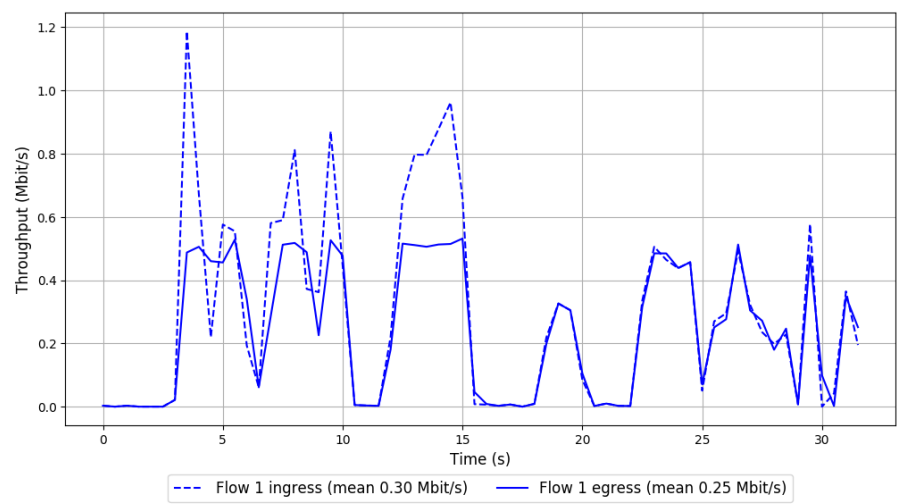
-- Flow 1:

Average throughput: 0.25 Mbit/s

95th percentile per-packet one-way delay: 218.484 ms

Loss rate: 17.31%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2017-08-21 21:05:39

End at: 2017-08-21 21:06:09

Local clock offset: 1.202 ms

Remote clock offset: 7.555 ms

Below is generated by plot.py at 2017-08-21 23:39:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.31 Mbit/s

95th percentile per-packet one-way delay: 217.946 ms

Loss rate: 10.94%

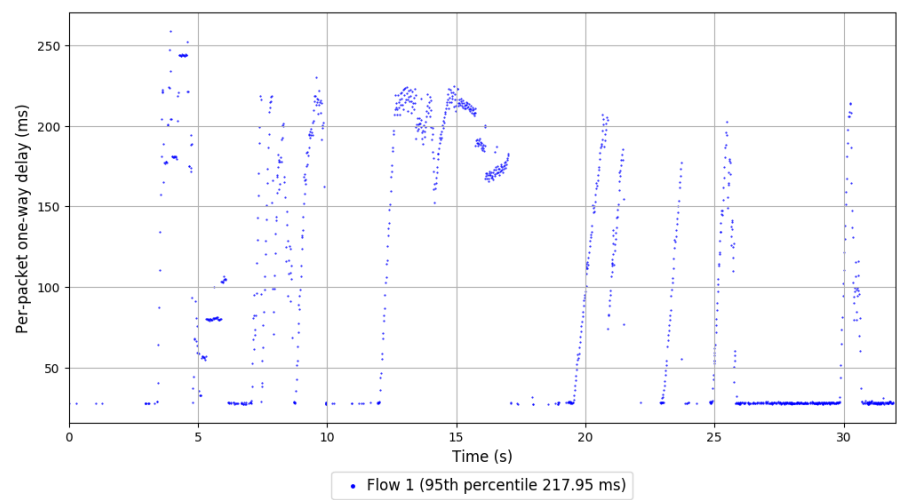
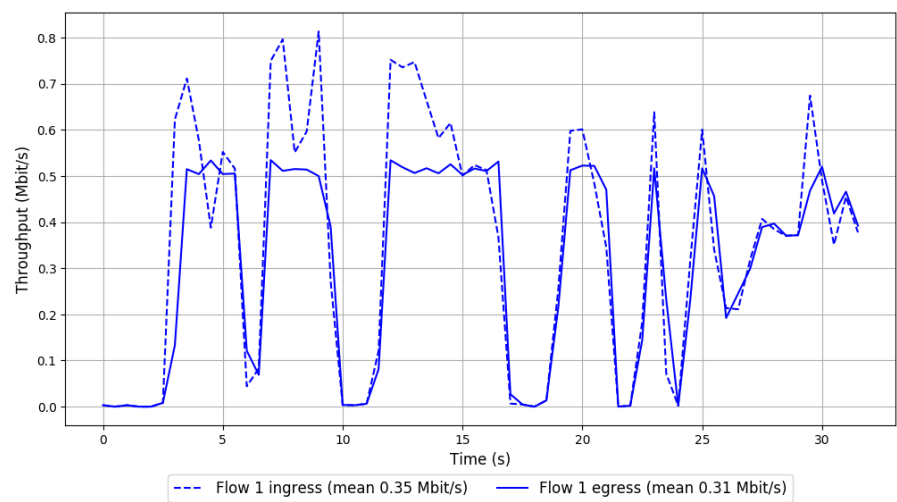
-- Flow 1:

Average throughput: 0.31 Mbit/s

95th percentile per-packet one-way delay: 217.946 ms

Loss rate: 10.94%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2017-08-21 21:23:03

End at: 2017-08-21 21:23:33

Local clock offset: 1.669 ms

Remote clock offset: 7.523 ms

Below is generated by plot.py at 2017-08-21 23:39:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.25 Mbit/s

95th percentile per-packet one-way delay: 218.830 ms

Loss rate: 18.30%

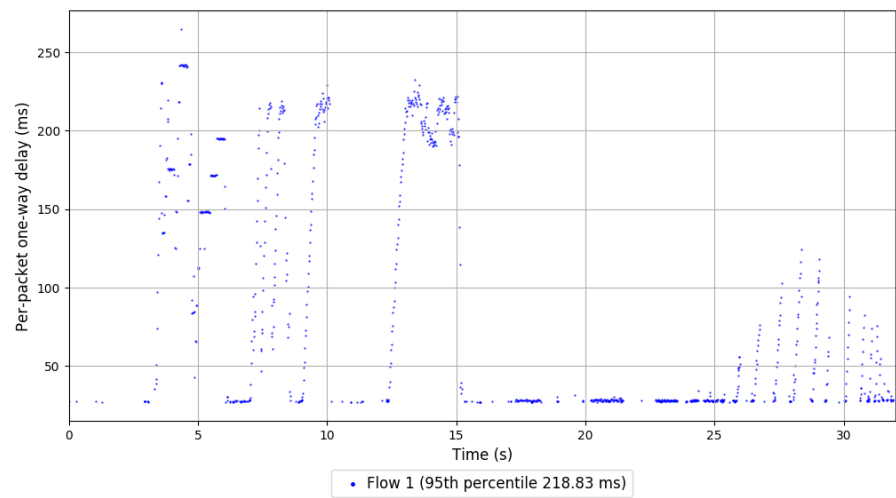
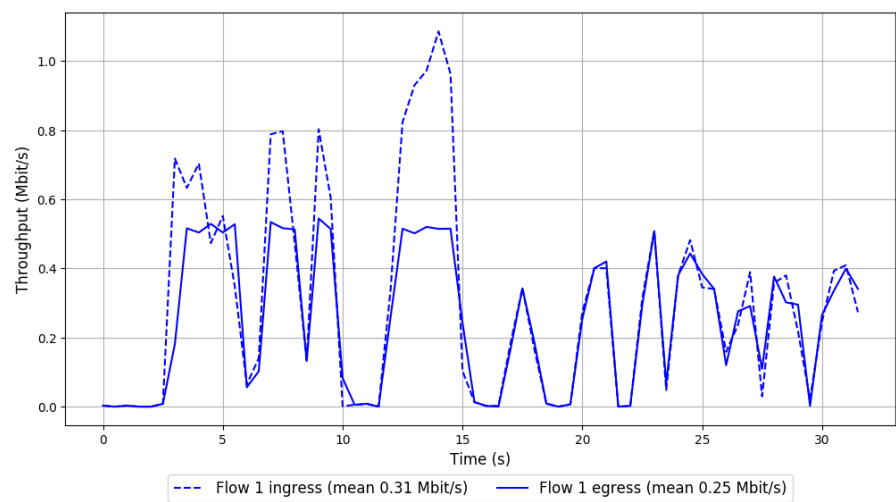
-- Flow 1:

Average throughput: 0.25 Mbit/s

95th percentile per-packet one-way delay: 218.830 ms

Loss rate: 18.30%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2017-08-21 21:40:25

End at: 2017-08-21 21:40:55

Local clock offset: -2.063 ms

Remote clock offset: 8.285 ms

Below is generated by plot.py at 2017-08-21 23:39:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.30 Mbit/s

95th percentile per-packet one-way delay: 222.948 ms

Loss rate: 13.55%

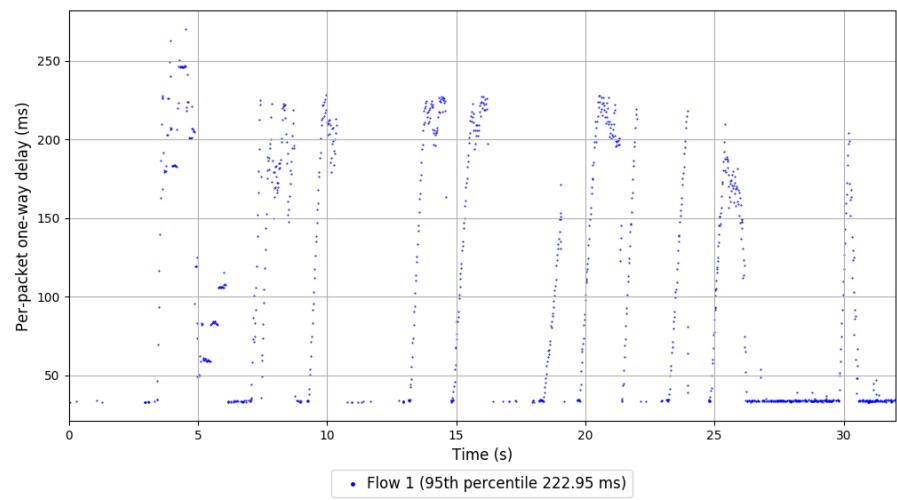
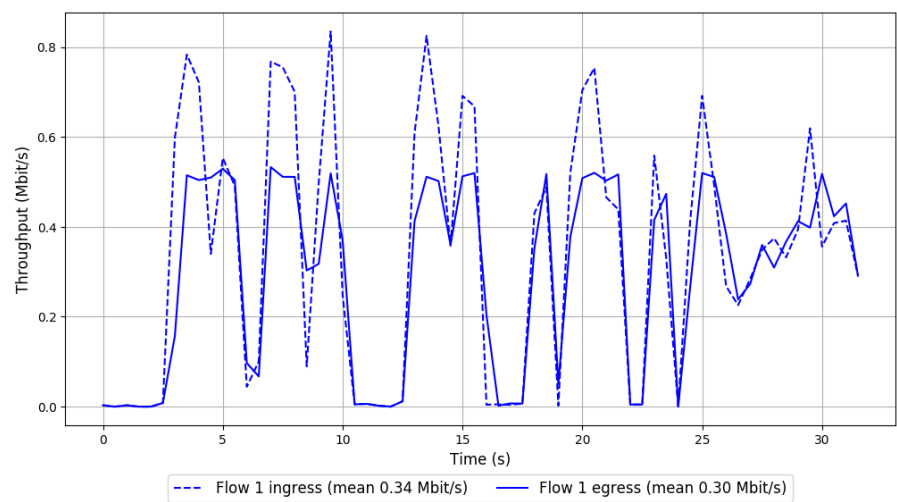
-- Flow 1:

Average throughput: 0.30 Mbit/s

95th percentile per-packet one-way delay: 222.948 ms

Loss rate: 13.55%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2017-08-21 21:57:49

End at: 2017-08-21 21:58:19

Local clock offset: -1.524 ms

Remote clock offset: 7.053 ms

Below is generated by plot.py at 2017-08-21 23:39:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.27 Mbit/s

95th percentile per-packet one-way delay: 221.071 ms

Loss rate: 15.68%

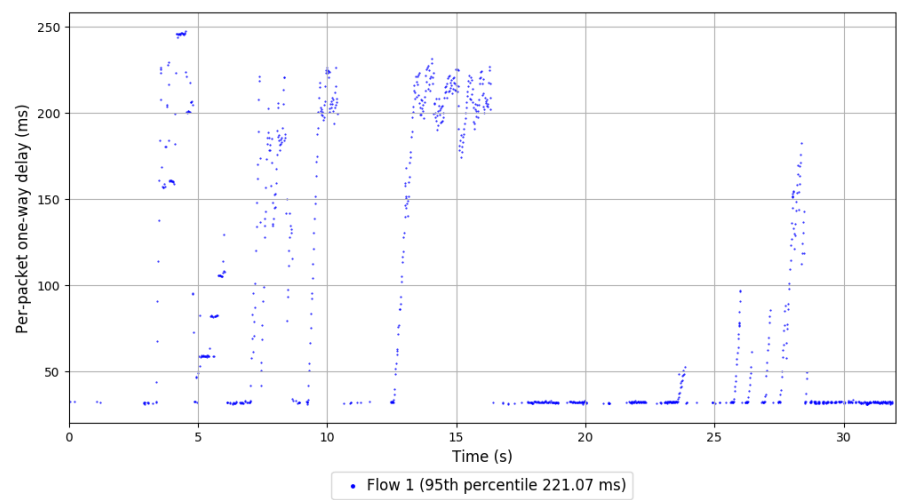
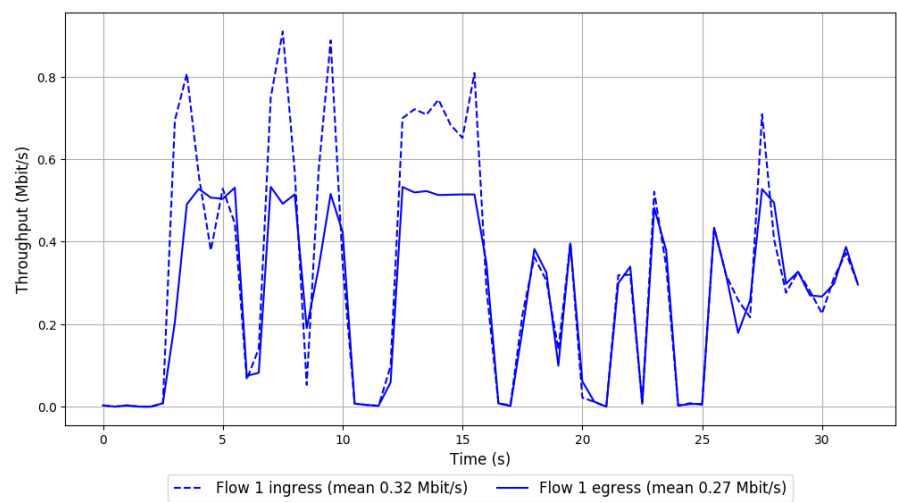
-- Flow 1:

Average throughput: 0.27 Mbit/s

95th percentile per-packet one-way delay: 221.071 ms

Loss rate: 15.68%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2017-08-21 22:15:13

End at: 2017-08-21 22:15:43

Local clock offset: -0.698 ms

Remote clock offset: 7.195 ms

Below is generated by plot.py at 2017-08-21 23:39:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.27 Mbit/s

95th percentile per-packet one-way delay: 221.307 ms

Loss rate: 12.35%

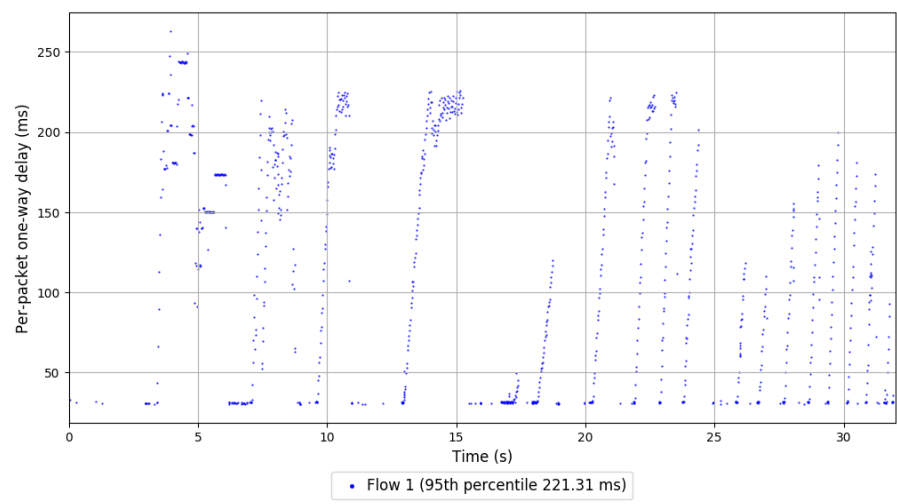
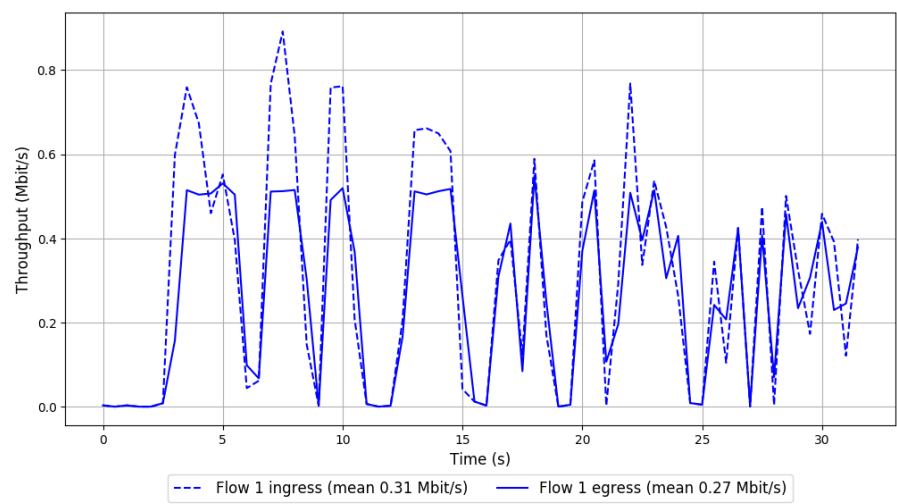
-- Flow 1:

Average throughput: 0.27 Mbit/s

95th percentile per-packet one-way delay: 221.307 ms

Loss rate: 12.35%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2017-08-21 22:32:39

End at: 2017-08-21 22:33:09

Local clock offset: -0.078 ms

Remote clock offset: 6.877 ms

Below is generated by plot.py at 2017-08-21 23:39:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.30 Mbit/s

95th percentile per-packet one-way delay: 219.613 ms

Loss rate: 15.41%

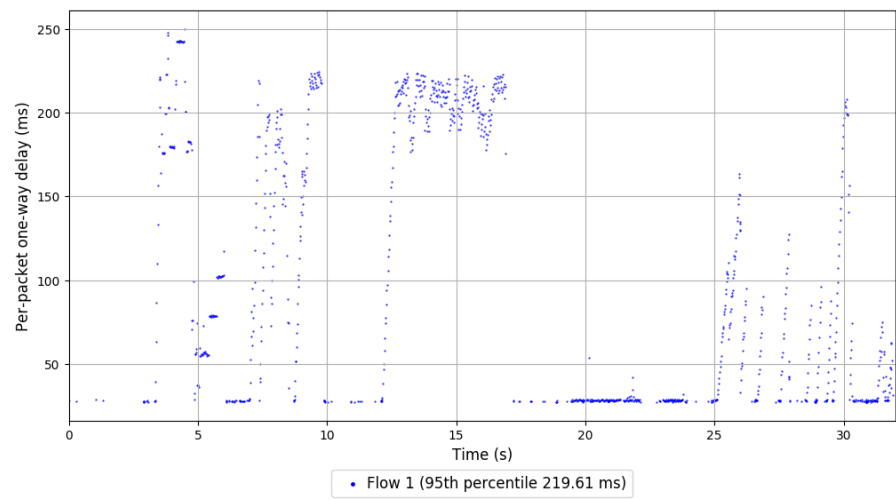
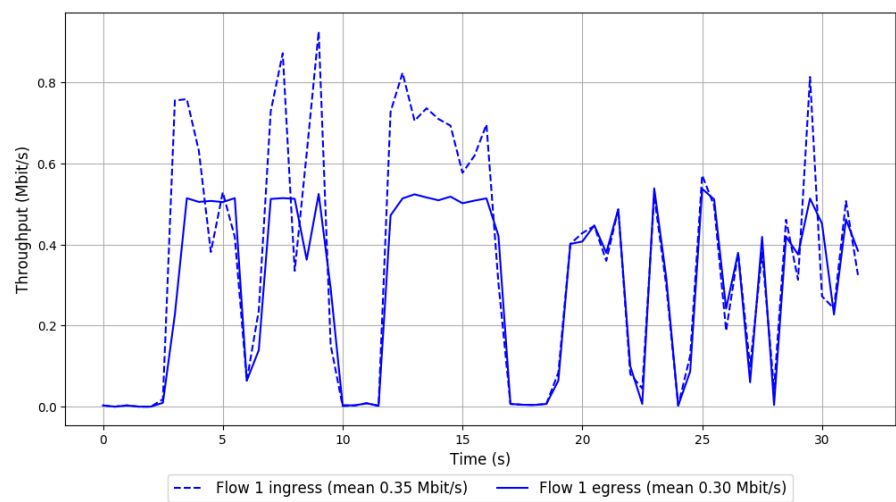
-- Flow 1:

Average throughput: 0.30 Mbit/s

95th percentile per-packet one-way delay: 219.613 ms

Loss rate: 15.41%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2017-08-21 22:50:09

End at: 2017-08-21 22:50:39

Local clock offset: -0.324 ms

Remote clock offset: 7.507 ms

Below is generated by plot.py at 2017-08-21 23:39:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.29 Mbit/s

95th percentile per-packet one-way delay: 222.550 ms

Loss rate: 12.39%

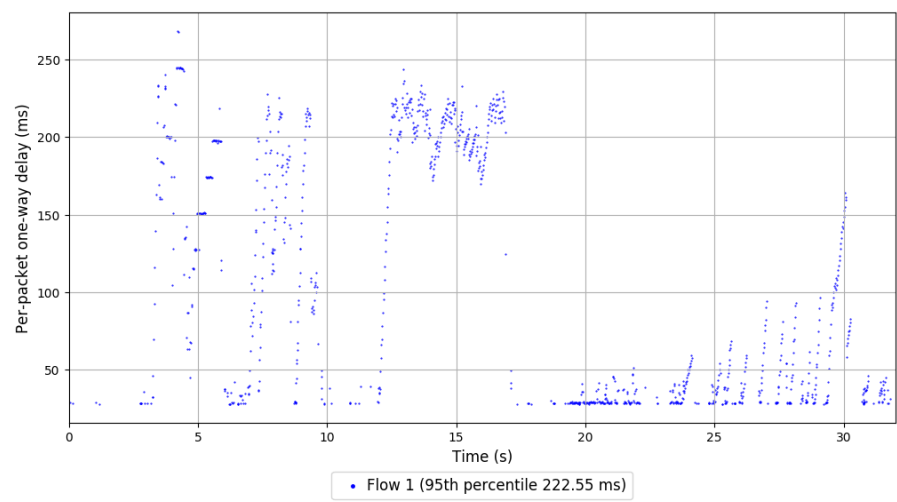
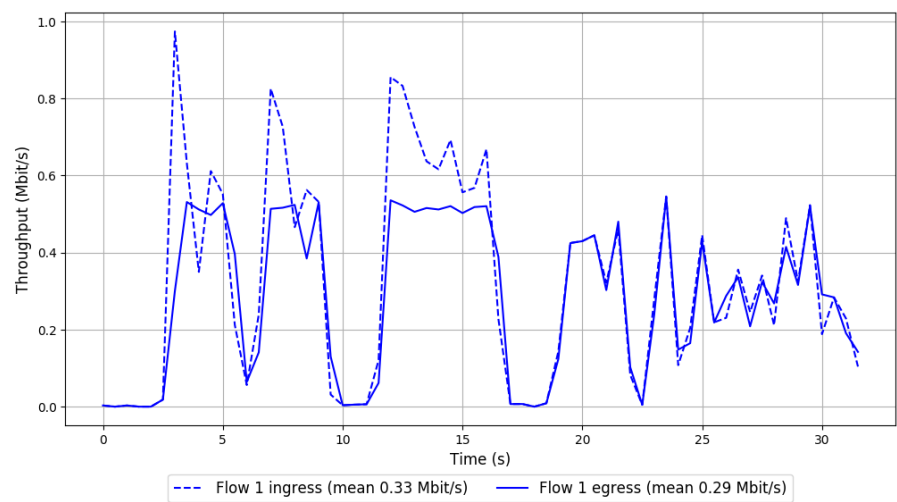
-- Flow 1:

Average throughput: 0.29 Mbit/s

95th percentile per-packet one-way delay: 222.550 ms

Loss rate: 12.39%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2017-08-21 23:07:43

End at: 2017-08-21 23:08:13

Local clock offset: 0.662 ms

Remote clock offset: 6.751 ms

Below is generated by plot.py at 2017-08-21 23:39:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.25 Mbit/s

95th percentile per-packet one-way delay: 219.923 ms

Loss rate: 18.65%

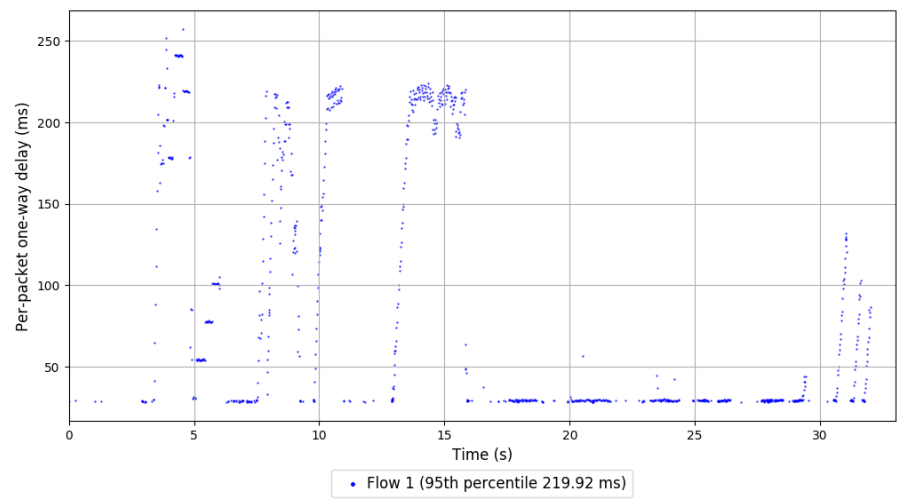
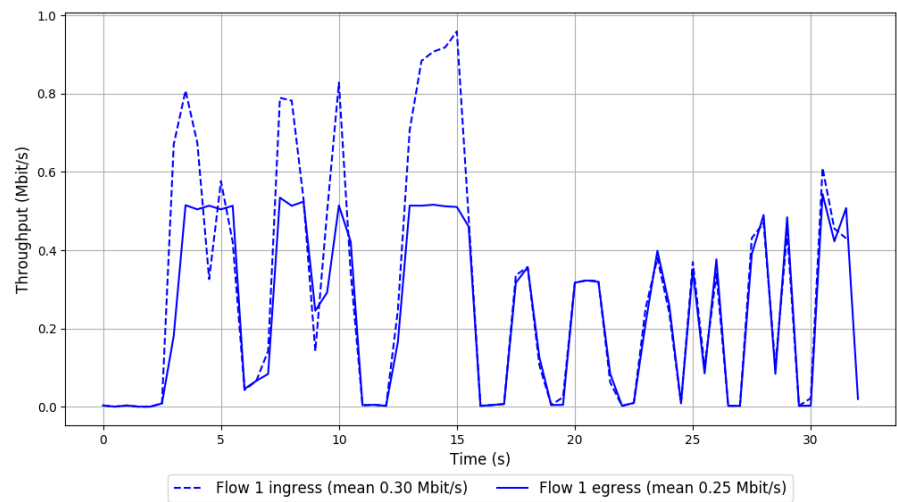
-- Flow 1:

Average throughput: 0.25 Mbit/s

95th percentile per-packet one-way delay: 219.923 ms

Loss rate: 18.65%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2017-08-21 23:25:11

End at: 2017-08-21 23:25:41

Local clock offset: 0.914 ms

Remote clock offset: 7.194 ms

Below is generated by plot.py at 2017-08-21 23:39:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 220.923 ms

Loss rate: 21.47%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 220.923 ms

Loss rate: 21.47%

Run 10: Report of WebRTC media — Data Link

