

Pantheon Report

Generated at 2018-03-13 08:49:37 (UTC).

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

Repeated the test of 17 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).

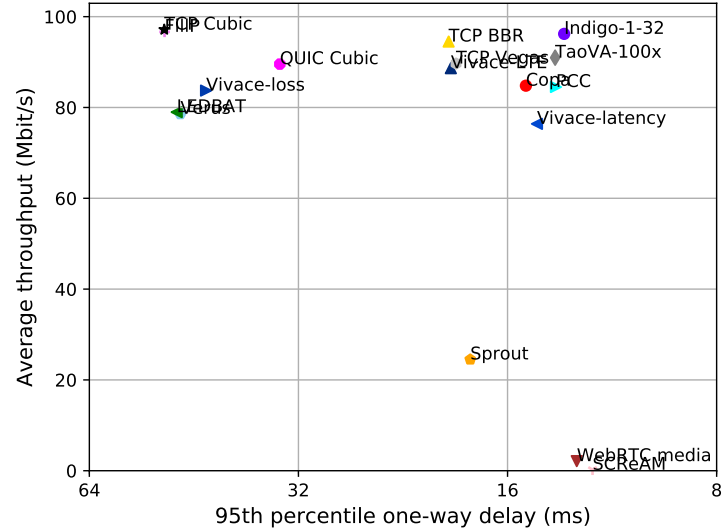
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo_fast**).

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

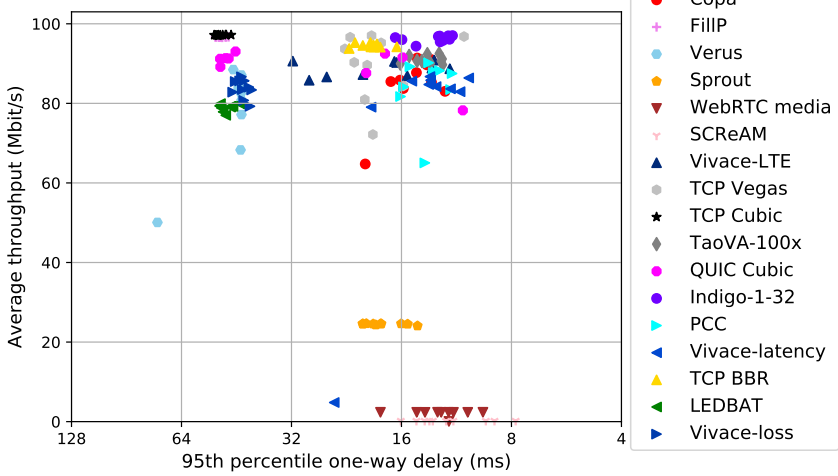
Git summary:

```
branch: master @ f12c42a2c63fdd9a862eefa0468859bf379b6623
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ 828bbf95fd4941149b5cec90f281d1c69ae1a5c6
third_party/genericCC @ 9249eea3238475c4d8cca1443d28df70bff6c4a2
third_party/indigo @ a9b2060d39e4da2e8987e893e3eca2a6c7cd0ab9
third_party/indigo-1-layer-128-unit @ 3ae9e4ef4230db7484501f82ce8b377695f2f66d
third_party/indigo-1-layer-32-unit @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/indigo-1-layer-32-unit-no-calib @ 1f3a7f75b41135ed5b540c0fd3505939528e2a5f
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ fb1053193c2861da659ba9013db26744ccfcf993
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eae30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/vivace @ 7a4ba531e75b4a6f66f5c4580192120401784ce3
third_party/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

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



test from AWS India 1 Ethernet to India 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
TCP BBR	10	94.52	19.45	0.18
TCP Cubic	10	97.14	49.93	0.48
LEDBAT	10	78.97	47.91	0.19
PCC	10	84.51	13.63	0.23
QUIC Cubic	9	89.55	34.04	0.30
SCReAM	10	0.21	12.07	0.00
WebRTC media	10	2.11	12.72	0.00
Sprout	10	24.51	18.10	0.00
TaoVA-100x	10	90.97	13.66	0.00
TCP Vegas	10	89.68	18.98	0.11
Verus	10	78.61	47.33	24.52
Copa	10	84.80	15.05	0.00
FillP	10	96.66	49.88	23.02
Indigo-1-32	10	96.21	13.26	0.00
Vivace-latency	10	76.39	14.51	0.00
Vivace-loss	10	83.72	43.46	10.13
Vivace-LTE	10	88.65	19.31	0.34

Run 1: Statistics of TCP BBR

Start at: 2018-03-13 04:22:30

End at: 2018-03-13 04:23:00

Local clock offset: 2.242 ms

Remote clock offset: 0.014 ms

Below is generated by plot.py at 2018-03-13 08:23:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.27 Mbit/s

95th percentile per-packet one-way delay: 21.437 ms

Loss rate: 0.19%

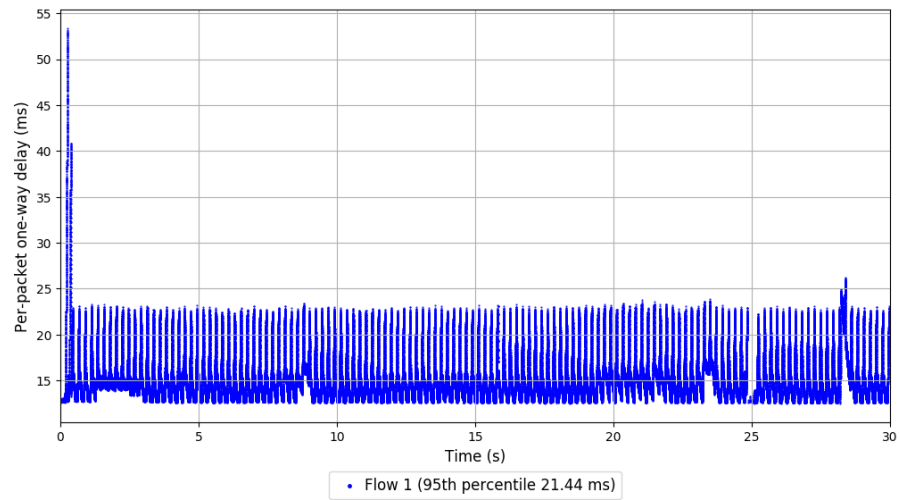
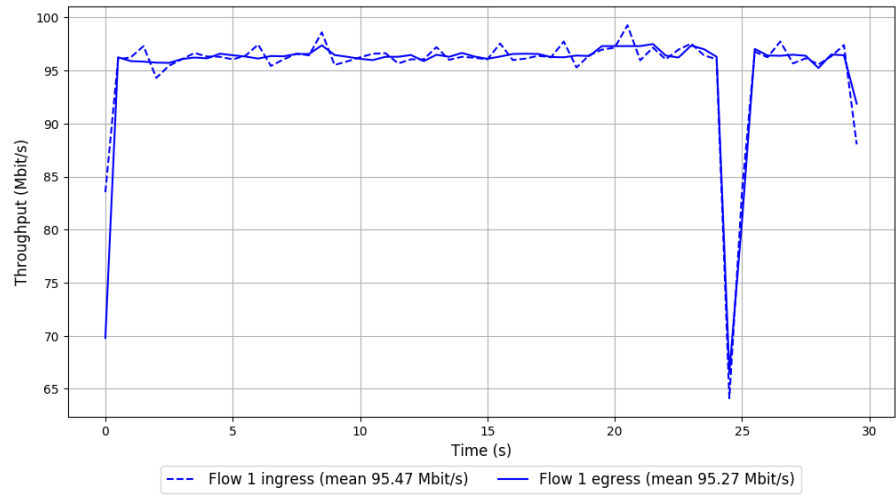
-- Flow 1:

Average throughput: 95.27 Mbit/s

95th percentile per-packet one-way delay: 21.437 ms

Loss rate: 0.19%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-03-13 04:43:51

End at: 2018-03-13 04:44:21

Local clock offset: 2.515 ms

Remote clock offset: 0.668 ms

Below is generated by plot.py at 2018-03-13 08:23:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.80 Mbit/s

95th percentile per-packet one-way delay: 22.247 ms

Loss rate: 0.23%

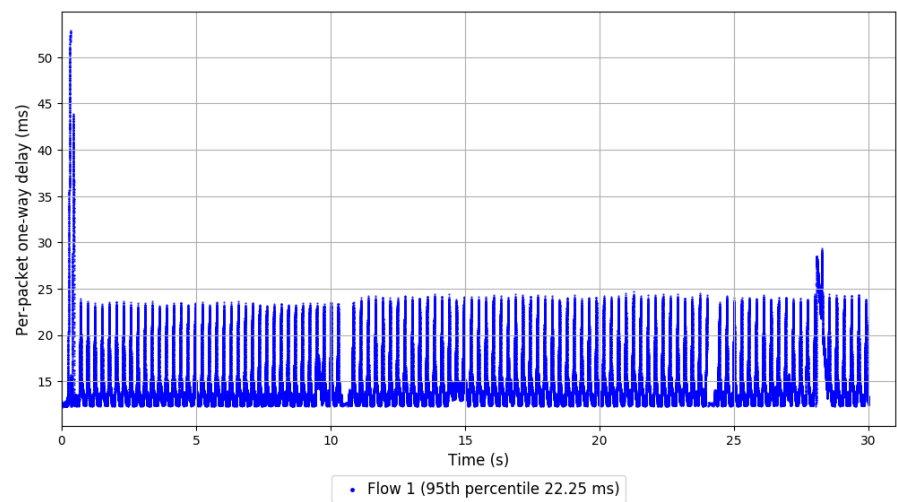
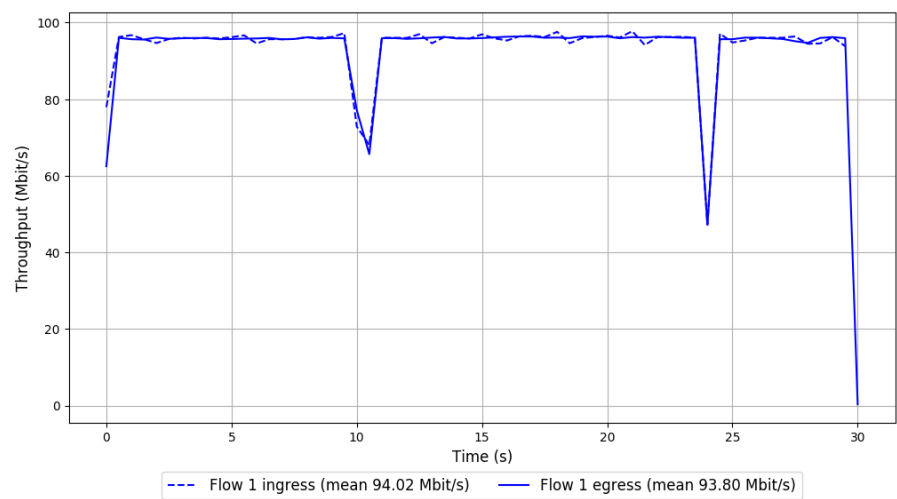
-- Flow 1:

Average throughput: 93.80 Mbit/s

95th percentile per-packet one-way delay: 22.247 ms

Loss rate: 0.23%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-03-13 05:05:11

End at: 2018-03-13 05:05:41

Local clock offset: 2.755 ms

Remote clock offset: 2.106 ms

Below is generated by plot.py at 2018-03-13 08:23:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.16 Mbit/s

95th percentile per-packet one-way delay: 19.033 ms

Loss rate: 0.17%

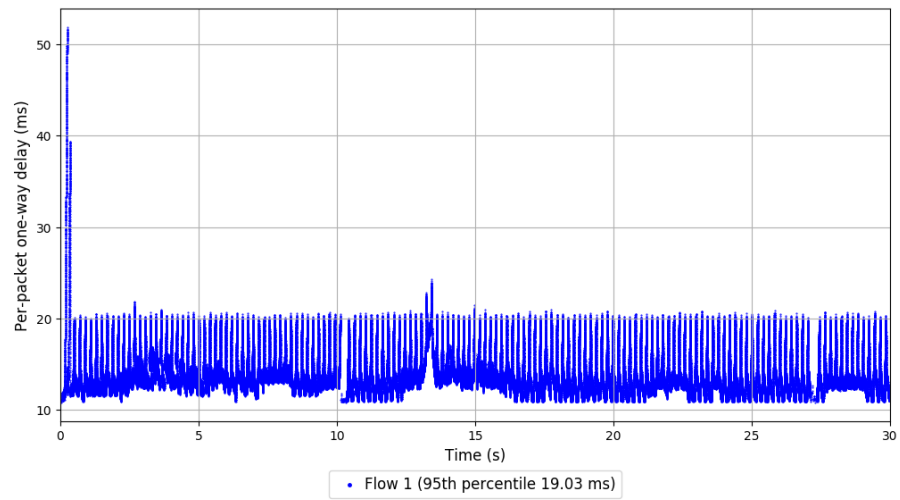
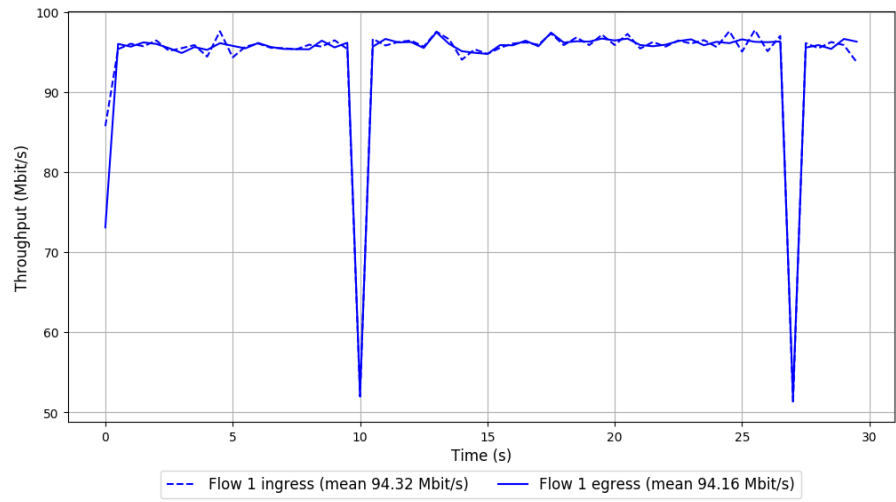
-- Flow 1:

Average throughput: 94.16 Mbit/s

95th percentile per-packet one-way delay: 19.033 ms

Loss rate: 0.17%

Run 3: Report of TCP BBR — Data Link

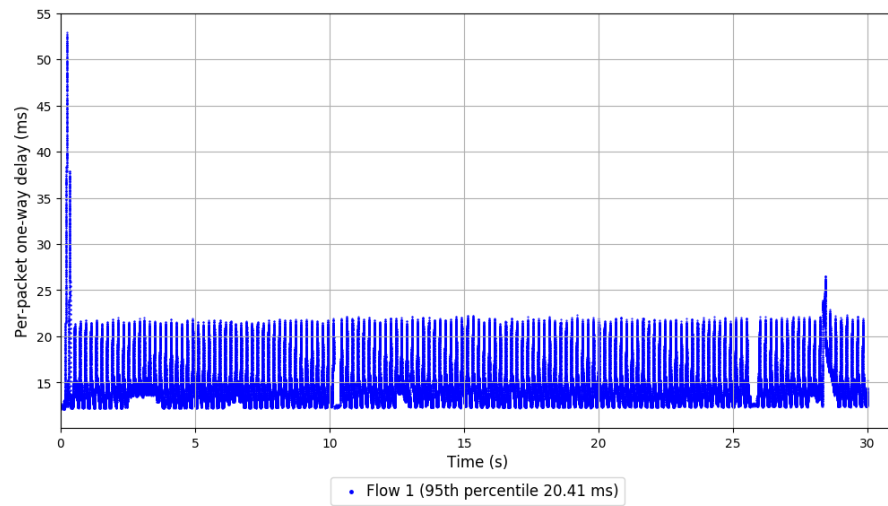
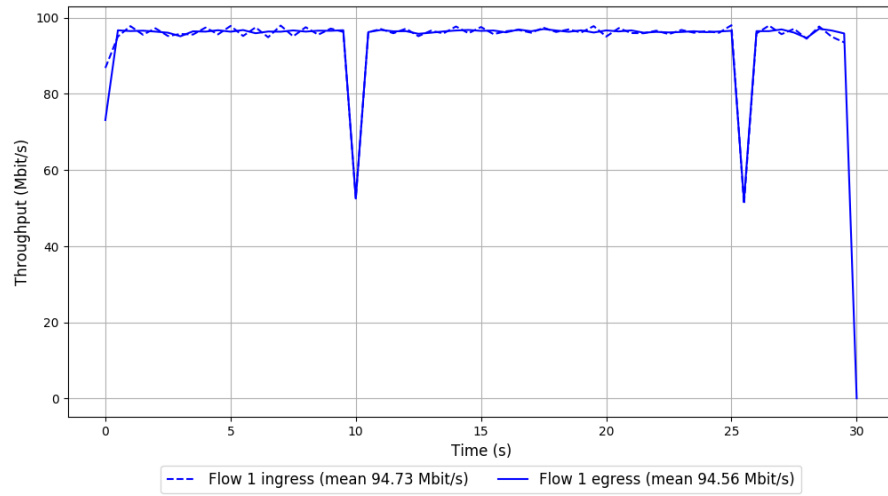


Run 4: Statistics of TCP BBR

Start at: 2018-03-13 05:26:19
End at: 2018-03-13 05:26:49
Local clock offset: 0.164 ms
Remote clock offset: -3.471 ms

Below is generated by plot.py at 2018-03-13 08:23:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 94.56 Mbit/s
95th percentile per-packet one-way delay: 20.411 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 94.56 Mbit/s
95th percentile per-packet one-way delay: 20.411 ms
Loss rate: 0.17%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-03-13 05:47:08

End at: 2018-03-13 05:47:38

Local clock offset: 0.584 ms

Remote clock offset: -8.912 ms

Below is generated by plot.py at 2018-03-13 08:23:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.30 Mbit/s

95th percentile per-packet one-way delay: 19.460 ms

Loss rate: 0.17%

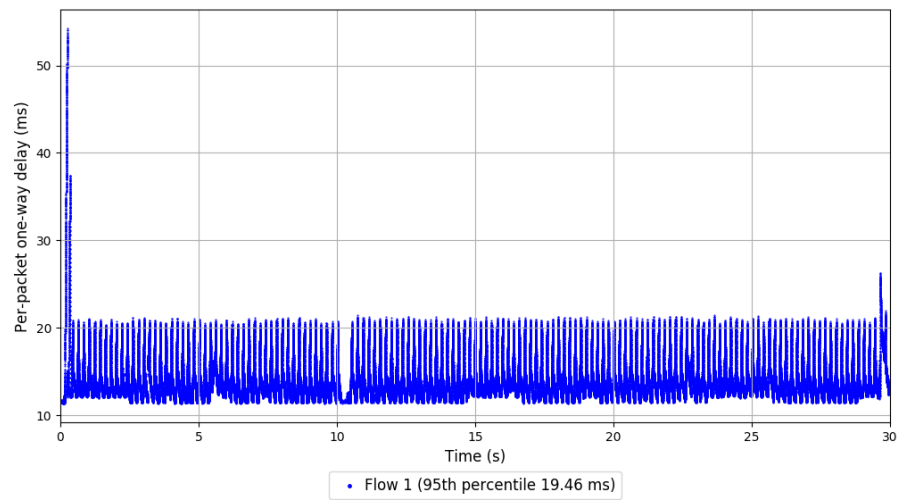
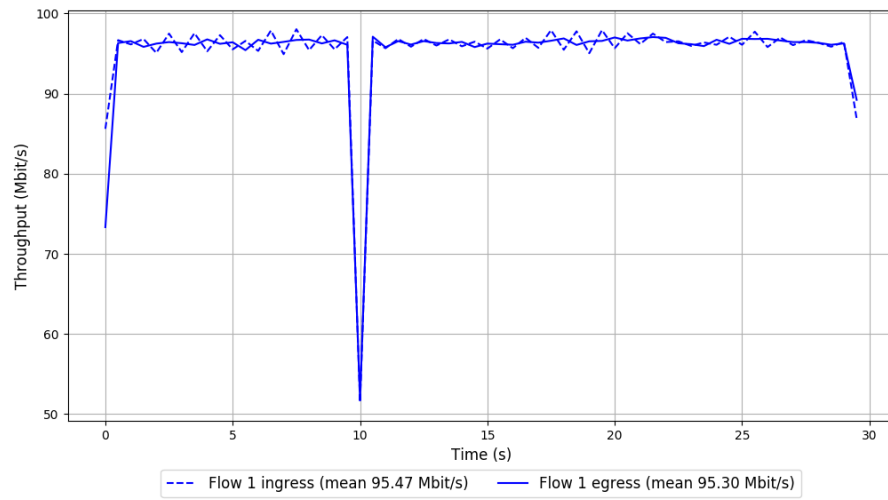
-- Flow 1:

Average throughput: 95.30 Mbit/s

95th percentile per-packet one-way delay: 19.460 ms

Loss rate: 0.17%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-03-13 06:08:07

End at: 2018-03-13 06:08:37

Local clock offset: 3.12 ms

Remote clock offset: -1.418 ms

Below is generated by plot.py at 2018-03-13 08:23:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.13 Mbit/s

95th percentile per-packet one-way delay: 18.282 ms

Loss rate: 0.18%

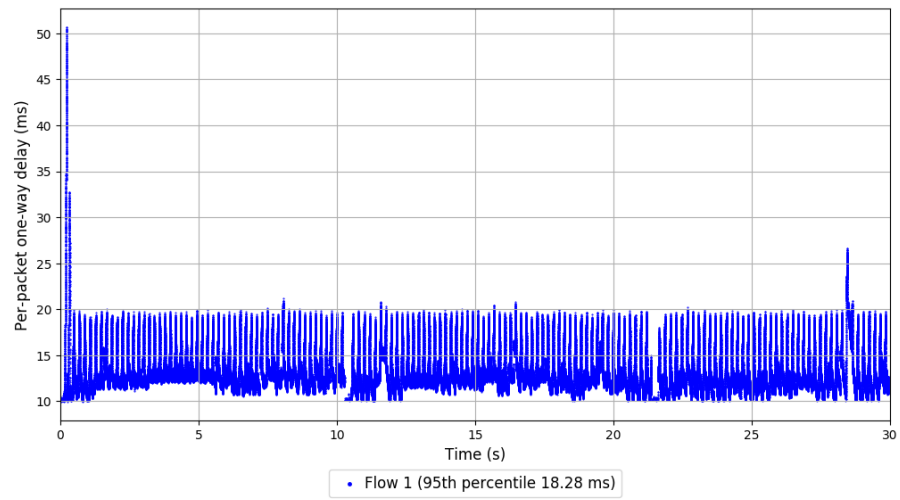
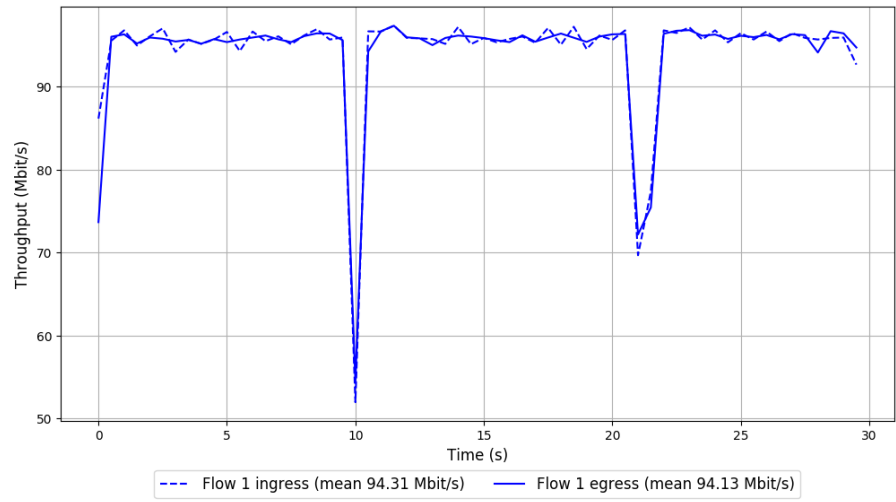
-- Flow 1:

Average throughput: 94.13 Mbit/s

95th percentile per-packet one-way delay: 18.282 ms

Loss rate: 0.18%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-03-13 06:29:12

End at: 2018-03-13 06:29:42

Local clock offset: 5.247 ms

Remote clock offset: 0.762 ms

Below is generated by plot.py at 2018-03-13 08:23:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.96 Mbit/s

95th percentile per-packet one-way delay: 18.680 ms

Loss rate: 0.17%

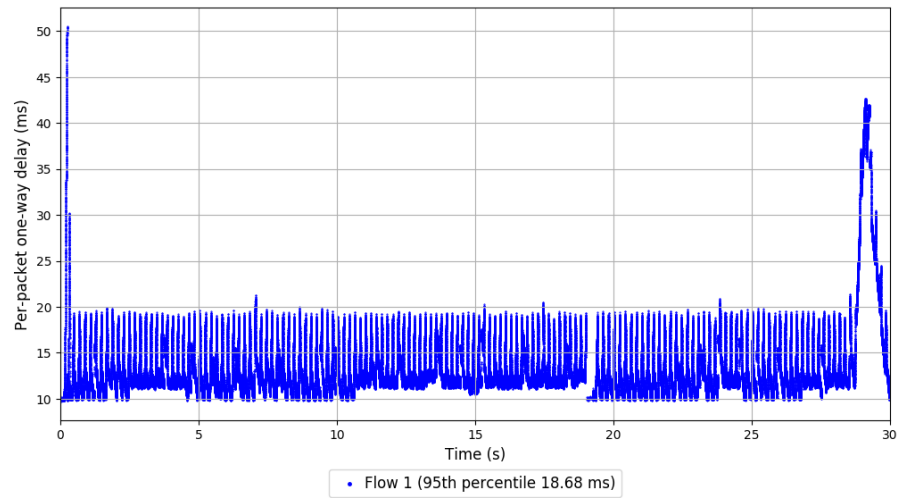
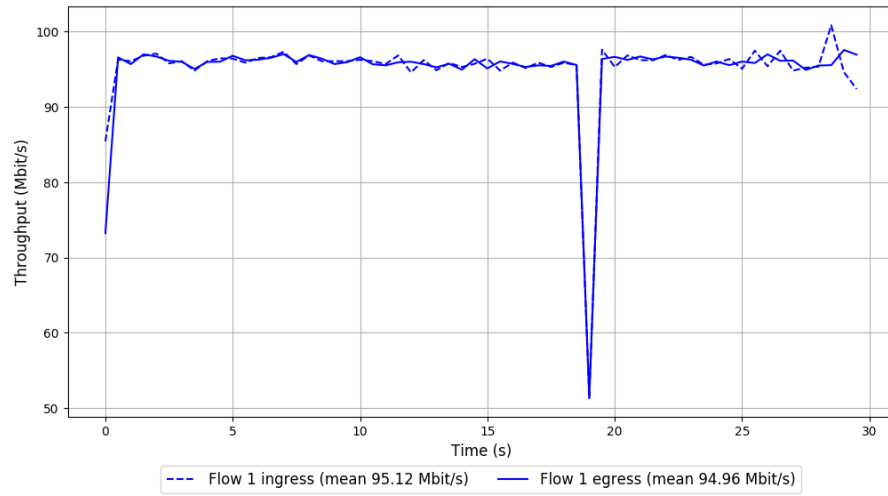
-- Flow 1:

Average throughput: 94.96 Mbit/s

95th percentile per-packet one-way delay: 18.680 ms

Loss rate: 0.17%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-03-13 06:50:35

End at: 2018-03-13 06:51:05

Local clock offset: 3.864 ms

Remote clock offset: 0.814 ms

Below is generated by plot.py at 2018-03-13 08:23:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.63 Mbit/s

95th percentile per-packet one-way delay: 19.076 ms

Loss rate: 0.17%

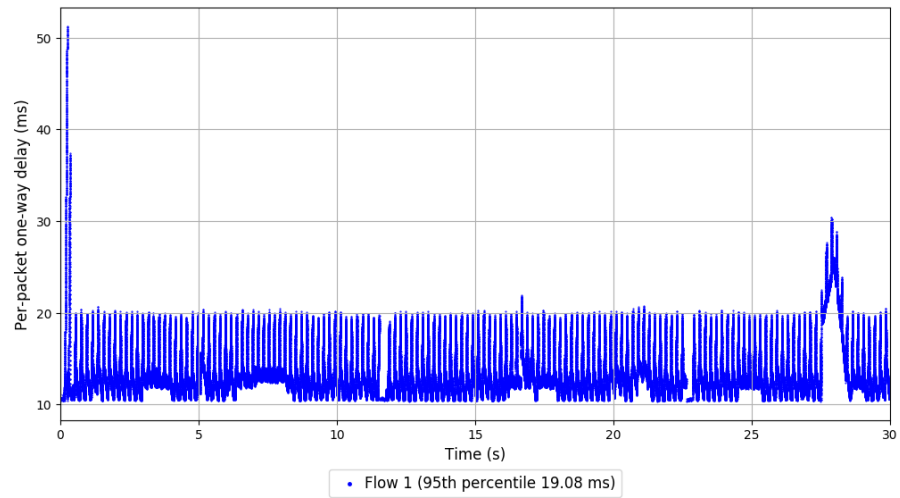
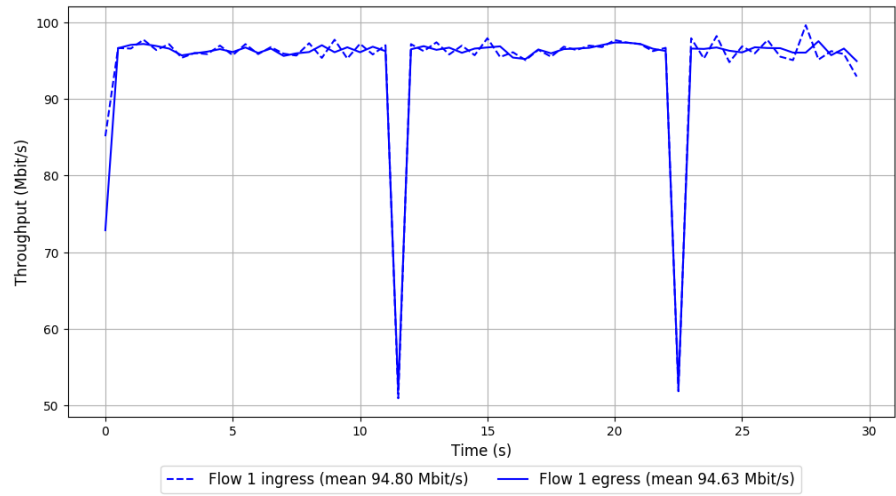
-- Flow 1:

Average throughput: 94.63 Mbit/s

95th percentile per-packet one-way delay: 19.076 ms

Loss rate: 0.17%

Run 8: Report of TCP BBR — Data Link

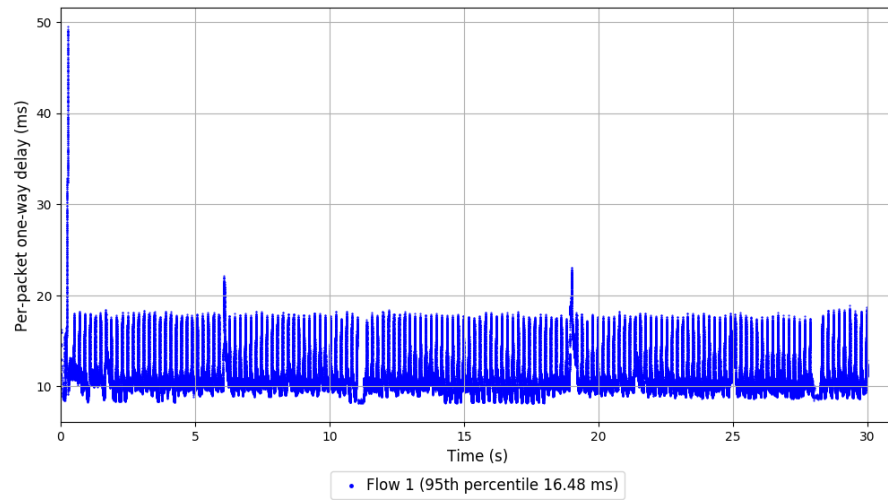
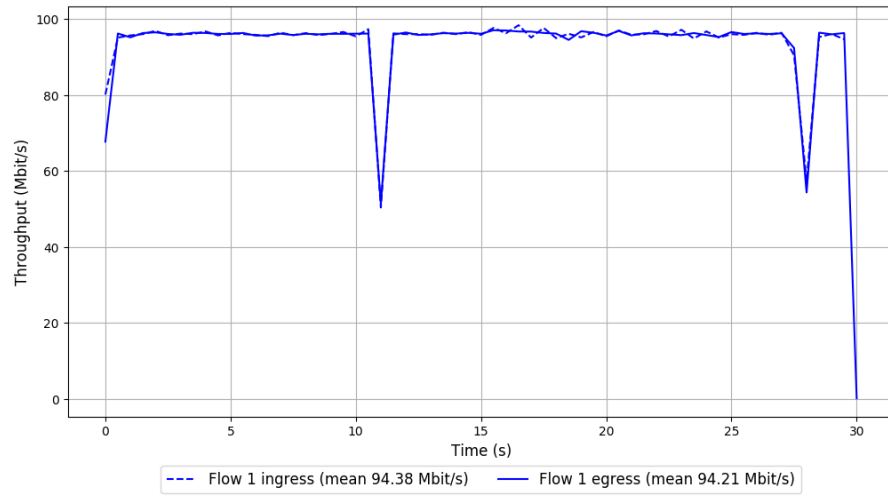


Run 9: Statistics of TCP BBR

Start at: 2018-03-13 07:11:41
End at: 2018-03-13 07:12:11
Local clock offset: 4.5 ms
Remote clock offset: 10.238 ms

Below is generated by plot.py at 2018-03-13 08:24:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 94.21 Mbit/s
95th percentile per-packet one-way delay: 16.478 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 94.21 Mbit/s
95th percentile per-packet one-way delay: 16.478 ms
Loss rate: 0.17%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-03-13 07:32:26

End at: 2018-03-13 07:32:56

Local clock offset: 2.384 ms

Remote clock offset: 19.053 ms

Below is generated by plot.py at 2018-03-13 08:24:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.19 Mbit/s

95th percentile per-packet one-way delay: 19.398 ms

Loss rate: 0.16%

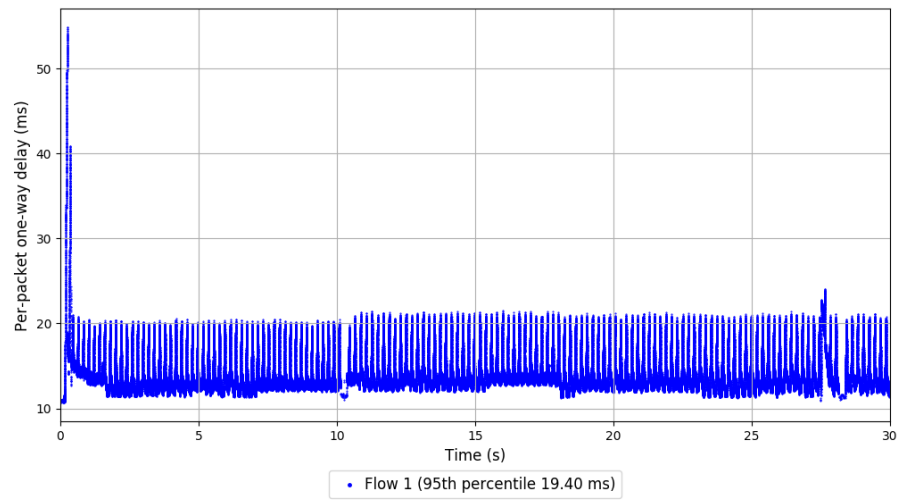
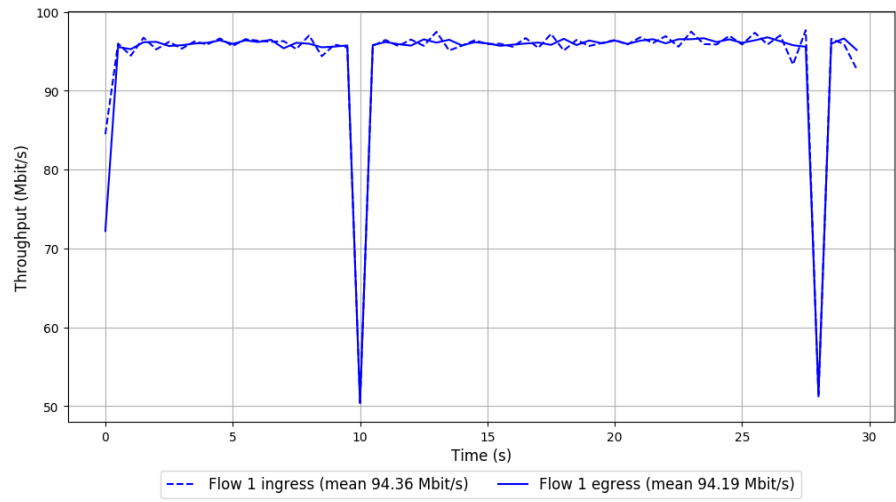
-- Flow 1:

Average throughput: 94.19 Mbit/s

95th percentile per-packet one-way delay: 19.398 ms

Loss rate: 0.16%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-03-13 04:23:39

End at: 2018-03-13 04:24:09

Local clock offset: 2.243 ms

Remote clock offset: 0.67 ms

Below is generated by plot.py at 2018-03-13 08:25:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.12 Mbit/s

95th percentile per-packet one-way delay: 51.527 ms

Loss rate: 0.43%

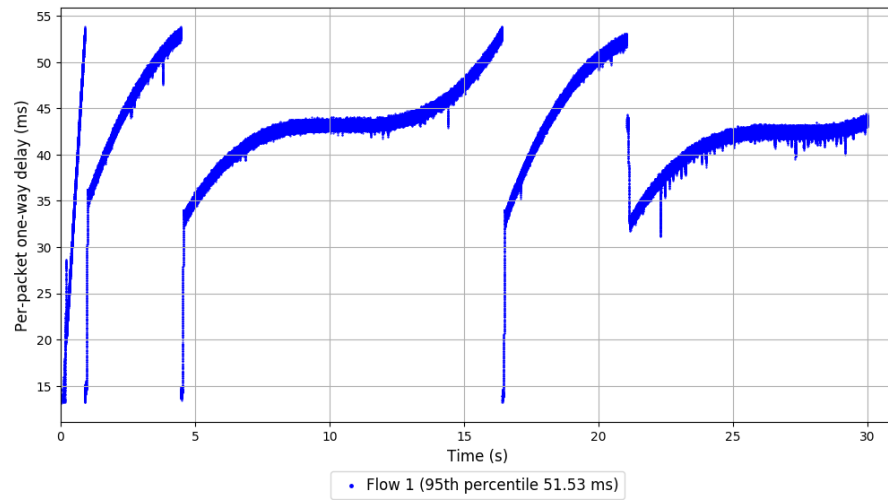
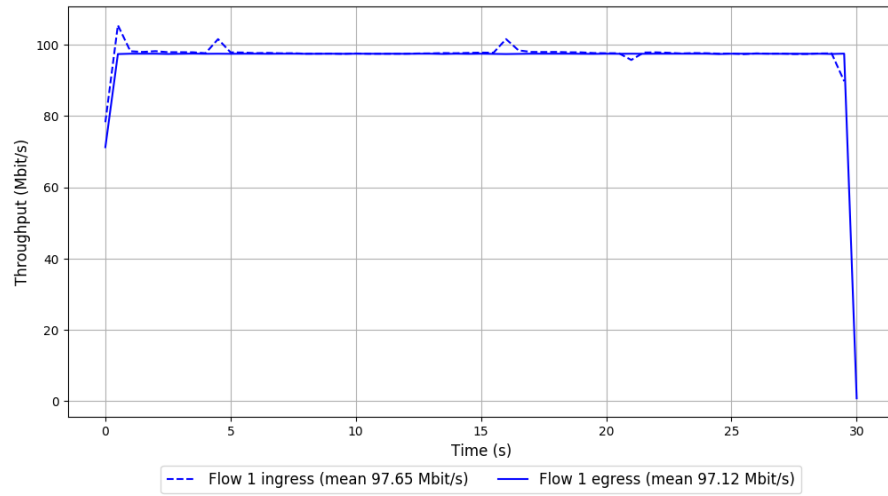
-- Flow 1:

Average throughput: 97.12 Mbit/s

95th percentile per-packet one-way delay: 51.527 ms

Loss rate: 0.43%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-03-13 04:45:02

End at: 2018-03-13 04:45:32

Local clock offset: 2.465 ms

Remote clock offset: 0.14 ms

Below is generated by plot.py at 2018-03-13 08:25:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.00 Mbit/s

95th percentile per-packet one-way delay: 50.733 ms

Loss rate: 0.53%

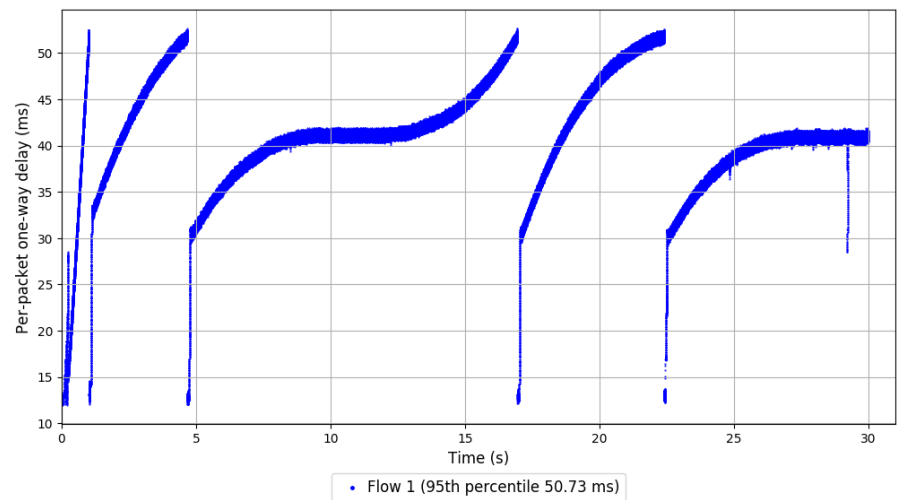
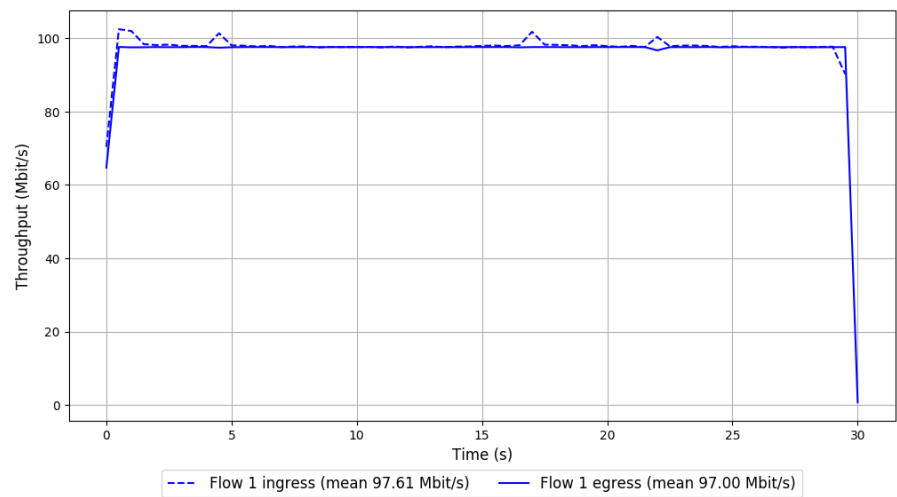
-- Flow 1:

Average throughput: 97.00 Mbit/s

95th percentile per-packet one-way delay: 50.733 ms

Loss rate: 0.53%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-03-13 05:06:20

End at: 2018-03-13 05:06:50

Local clock offset: 4.902 ms

Remote clock offset: 1.191 ms

Below is generated by plot.py at 2018-03-13 08:25:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.19 Mbit/s

95th percentile per-packet one-way delay: 46.815 ms

Loss rate: 0.43%

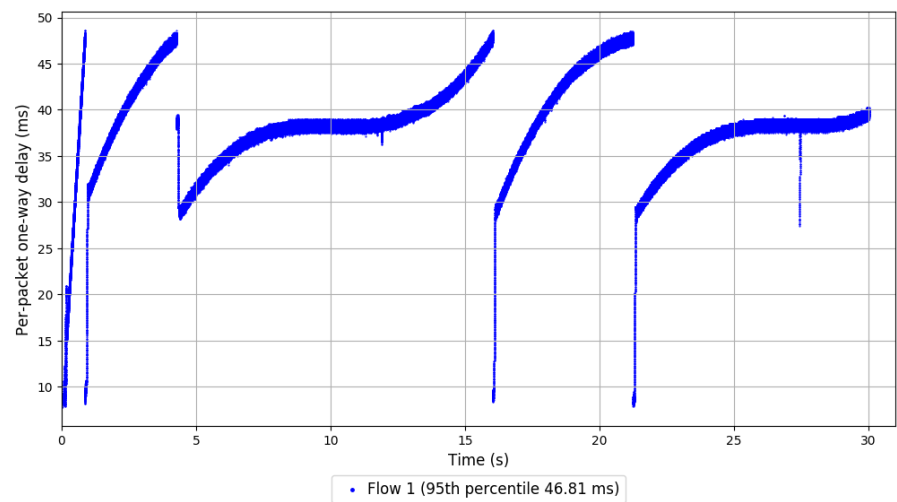
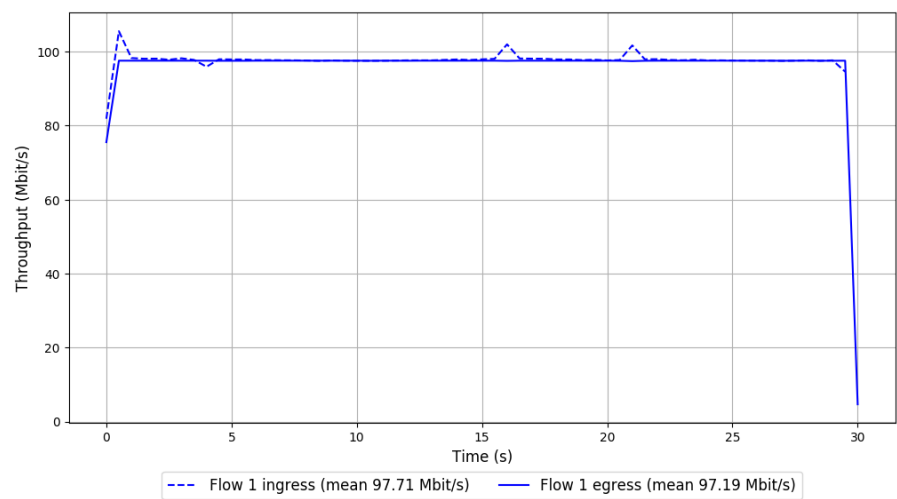
-- Flow 1:

Average throughput: 97.19 Mbit/s

95th percentile per-packet one-way delay: 46.815 ms

Loss rate: 0.43%

Run 3: Report of TCP Cubic — Data Link

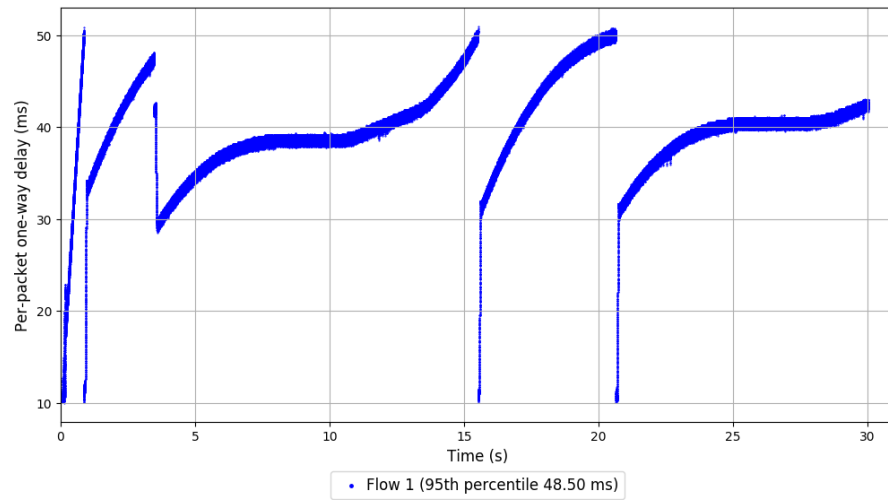
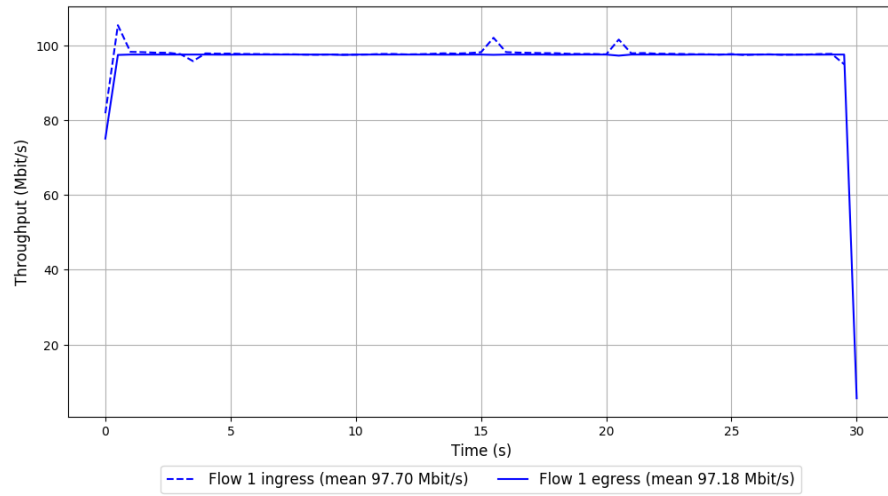


Run 4: Statistics of TCP Cubic

Start at: 2018-03-13 05:27:29
End at: 2018-03-13 05:27:59
Local clock offset: 3.604 ms
Remote clock offset: -2.754 ms

Below is generated by plot.py at 2018-03-13 08:25:03
Datalink statistics
-- Total of 1 flow:
Average throughput: 97.18 Mbit/s
95th percentile per-packet one-way delay: 48.499 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 97.18 Mbit/s
95th percentile per-packet one-way delay: 48.499 ms
Loss rate: 0.42%

Run 4: Report of TCP Cubic — Data Link

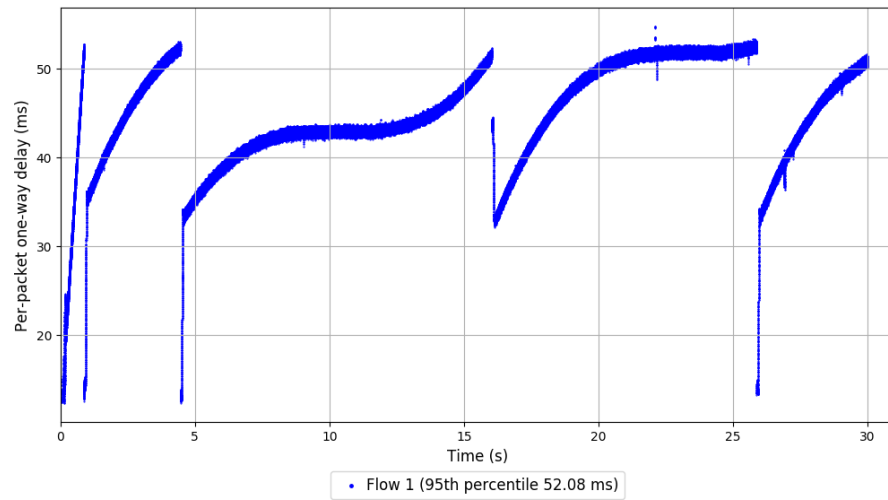
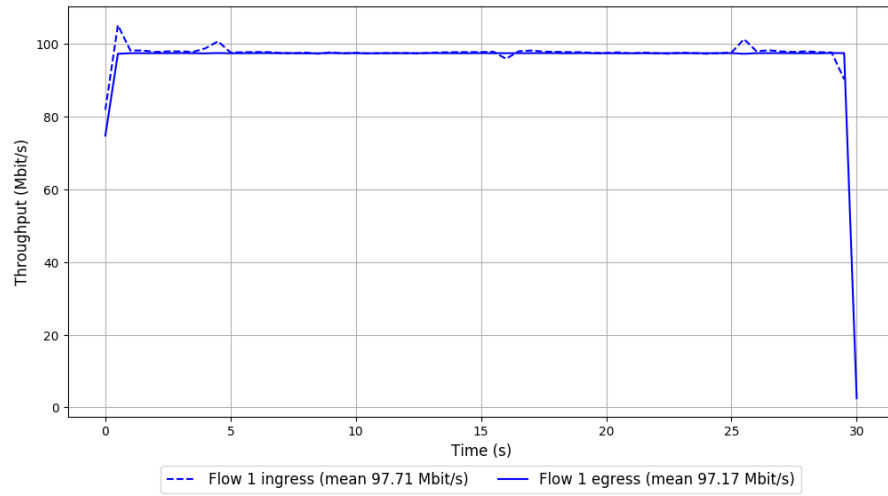


Run 5: Statistics of TCP Cubic

Start at: 2018-03-13 05:48:19
End at: 2018-03-13 05:48:49
Local clock offset: 1.38 ms
Remote clock offset: -7.345 ms

Below is generated by plot.py at 2018-03-13 08:25:03
Datalink statistics
-- Total of 1 flow:
Average throughput: 97.17 Mbit/s
95th percentile per-packet one-way delay: 52.076 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 97.17 Mbit/s
95th percentile per-packet one-way delay: 52.076 ms
Loss rate: 0.43%

Run 5: Report of TCP Cubic — Data Link

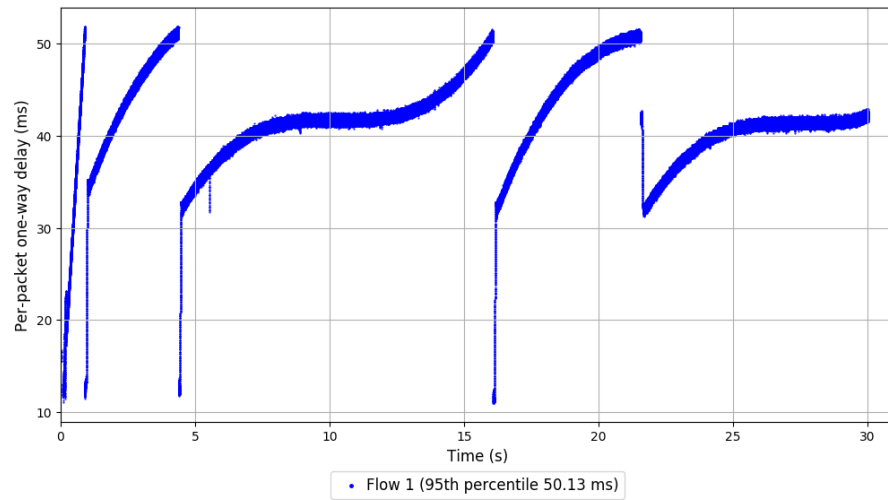
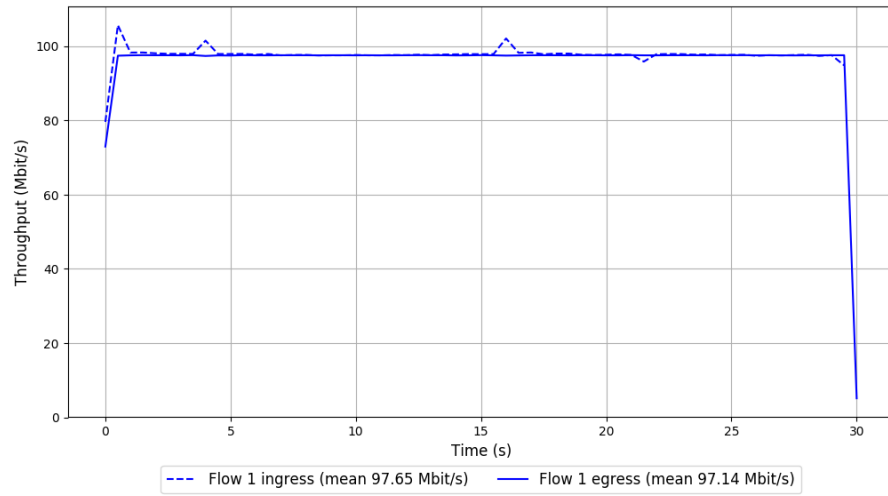


Run 6: Statistics of TCP Cubic

Start at: 2018-03-13 06:09:17
End at: 2018-03-13 06:09:47
Local clock offset: 3.272 ms
Remote clock offset: -0.435 ms

Below is generated by plot.py at 2018-03-13 08:25:03
Datalink statistics
-- Total of 1 flow:
Average throughput: 97.14 Mbit/s
95th percentile per-packet one-way delay: 50.134 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 97.14 Mbit/s
95th percentile per-packet one-way delay: 50.134 ms
Loss rate: 0.44%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-03-13 06:30:25

End at: 2018-03-13 06:30:55

Local clock offset: 6.082 ms

Remote clock offset: 0.903 ms

Below is generated by plot.py at 2018-03-13 08:26:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.18 Mbit/s

95th percentile per-packet one-way delay: 48.265 ms

Loss rate: 0.53%

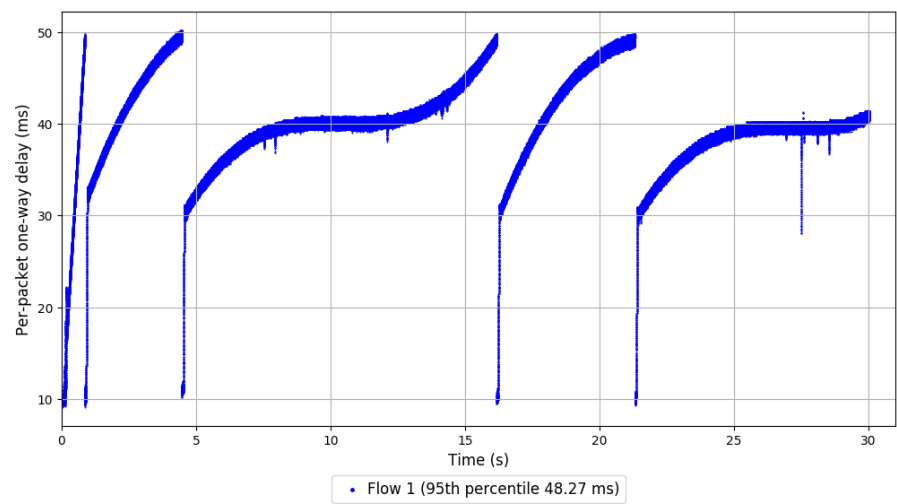
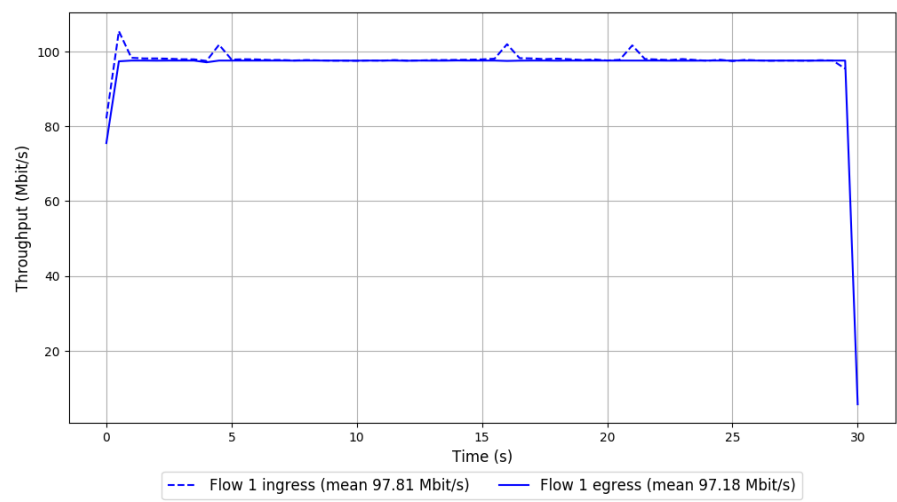
-- Flow 1:

Average throughput: 97.18 Mbit/s

95th percentile per-packet one-way delay: 48.265 ms

Loss rate: 0.53%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-03-13 06:51:51

End at: 2018-03-13 06:52:21

Local clock offset: 4.851 ms

Remote clock offset: 1.082 ms

Below is generated by plot.py at 2018-03-13 08:26:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.17 Mbit/s

95th percentile per-packet one-way delay: 49.386 ms

Loss rate: 0.54%

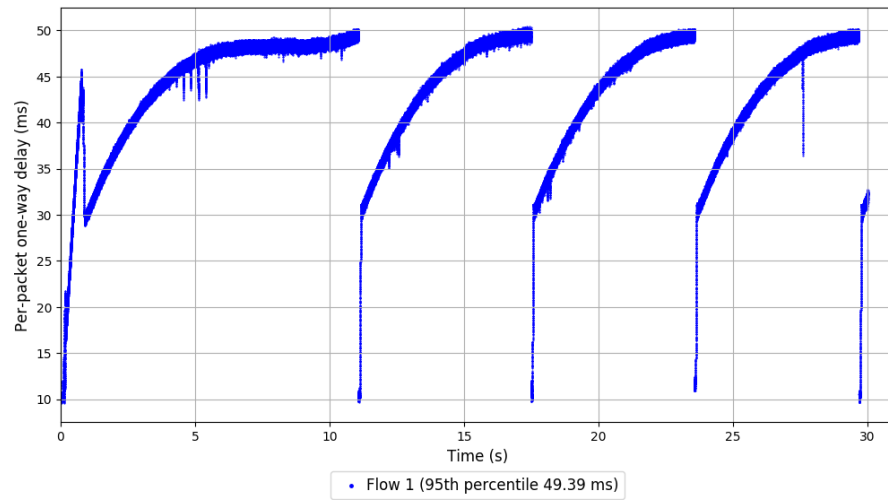
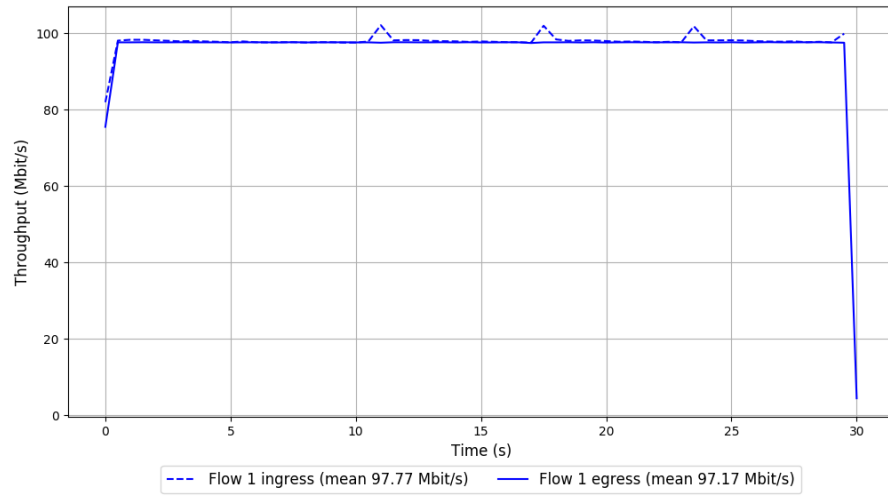
-- Flow 1:

Average throughput: 97.17 Mbit/s

95th percentile per-packet one-way delay: 49.386 ms

Loss rate: 0.54%

Run 8: Report of TCP Cubic — Data Link

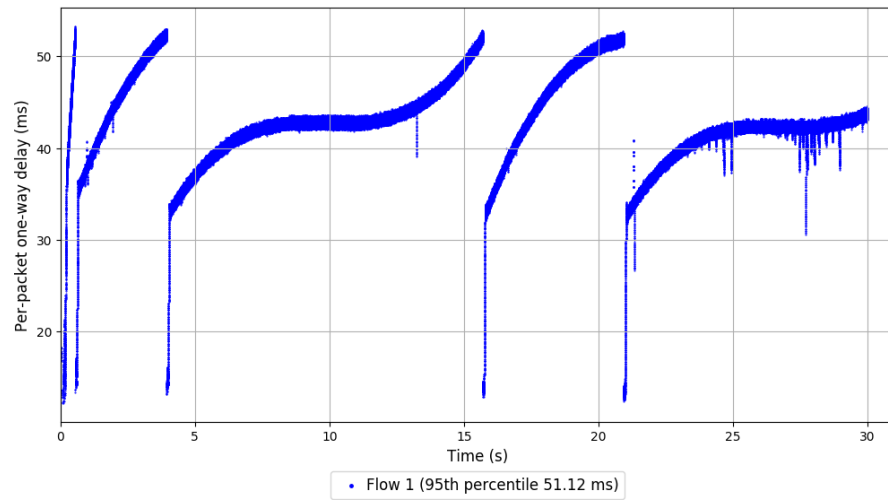
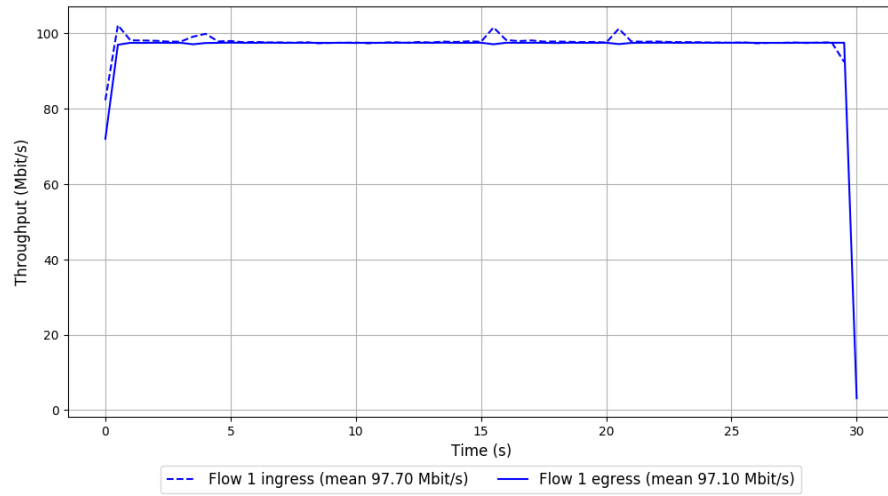


Run 9: Statistics of TCP Cubic

Start at: 2018-03-13 07:12:51
End at: 2018-03-13 07:13:21
Local clock offset: 2.355 ms
Remote clock offset: 12.475 ms

Below is generated by plot.py at 2018-03-13 08:26:27
Datalink statistics
-- Total of 1 flow:
Average throughput: 97.10 Mbit/s
95th percentile per-packet one-way delay: 51.117 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 97.10 Mbit/s
95th percentile per-packet one-way delay: 51.117 ms
Loss rate: 0.53%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-03-13 07:33:35

End at: 2018-03-13 07:34:05

Local clock offset: 1.873 ms

Remote clock offset: 19.509 ms

Below is generated by plot.py at 2018-03-13 08:26:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.16 Mbit/s

95th percentile per-packet one-way delay: 50.714 ms

Loss rate: 0.52%

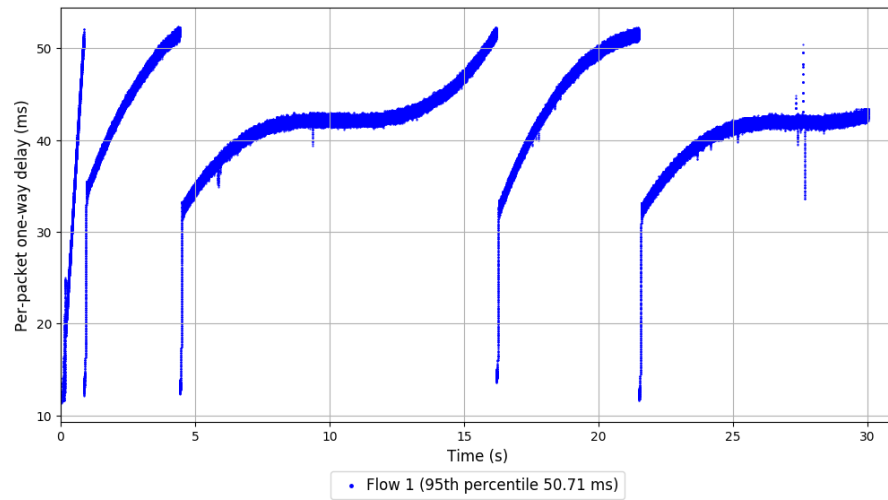
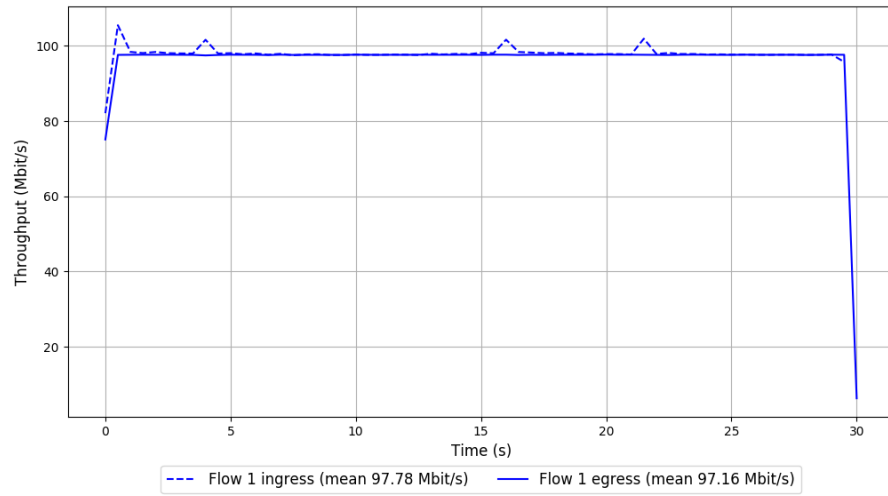
-- Flow 1:

Average throughput: 97.16 Mbit/s

95th percentile per-packet one-way delay: 50.714 ms

Loss rate: 0.52%

Run 10: Report of TCP Cubic — Data Link

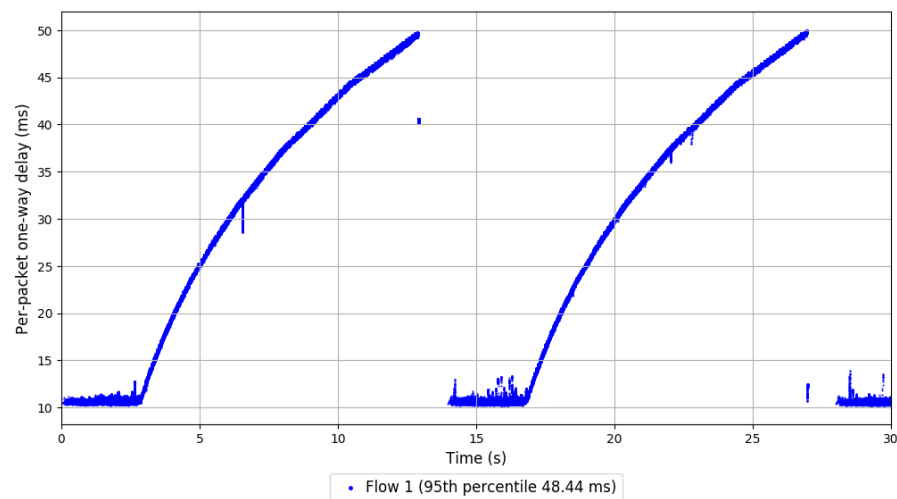
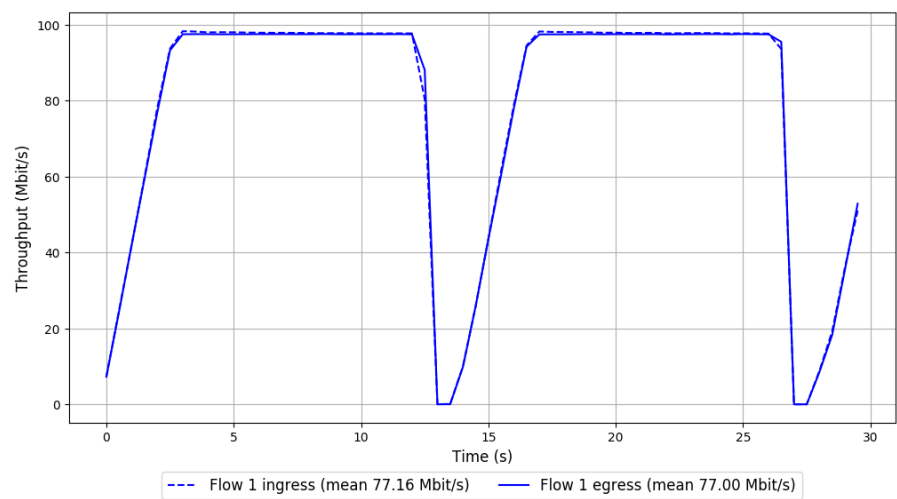


```
Run 1: Statistics of LEDBAT

Start at: 2018-03-13 04:19:03
End at: 2018-03-13 04:19:34
Local clock offset: 5.086 ms
Remote clock offset: 0.082 ms

# Below is generated by plot.py at 2018-03-13 08:26:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 77.00 Mbit/s
95th percentile per-packet one-way delay: 48.436 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 77.00 Mbit/s
95th percentile per-packet one-way delay: 48.436 ms
Loss rate: 0.20%
```

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-03-13 04:40:21

End at: 2018-03-13 04:40:51

Local clock offset: 1.875 ms

Remote clock offset: 1.162 ms

Below is generated by plot.py at 2018-03-13 08:26:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.93 Mbit/s

95th percentile per-packet one-way delay: 50.076 ms

Loss rate: 0.16%

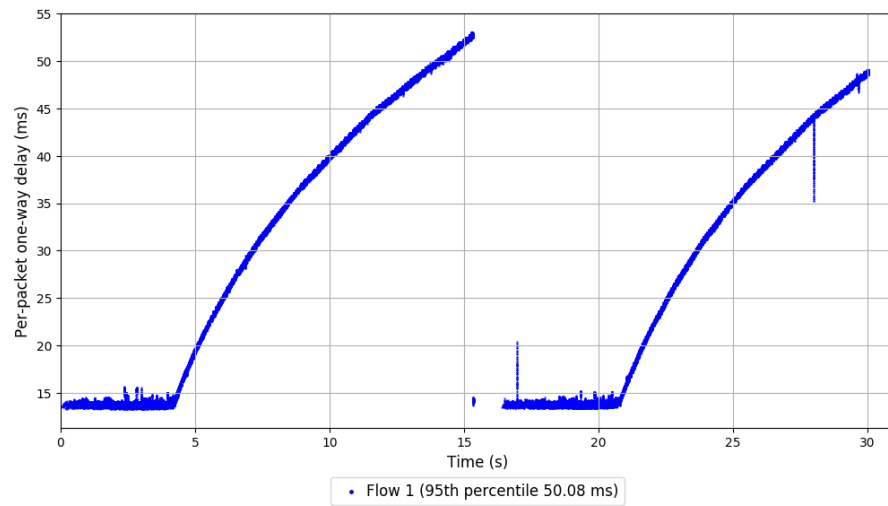
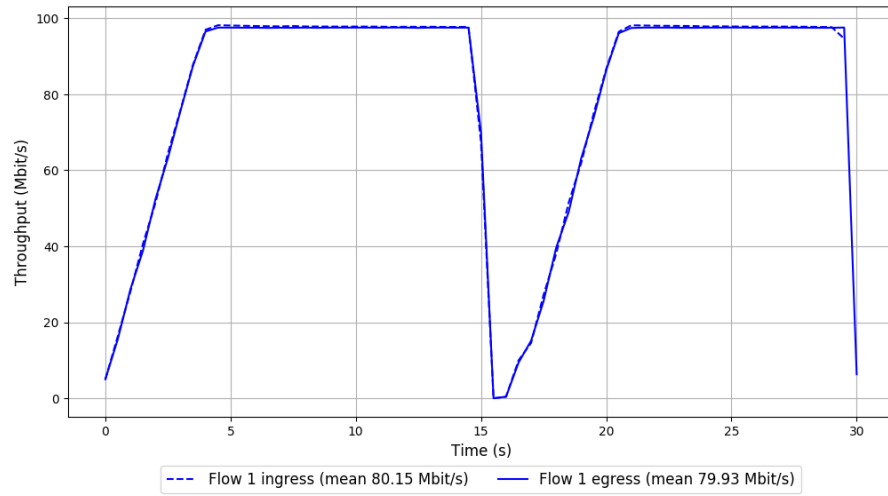
-- Flow 1:

Average throughput: 79.93 Mbit/s

95th percentile per-packet one-way delay: 50.076 ms

Loss rate: 0.16%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-03-13 05:01:43

End at: 2018-03-13 05:02:13

Local clock offset: 4.291 ms

Remote clock offset: 1.429 ms

Below is generated by plot.py at 2018-03-13 08:26:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.26 Mbit/s

95th percentile per-packet one-way delay: 46.889 ms

Loss rate: 0.20%

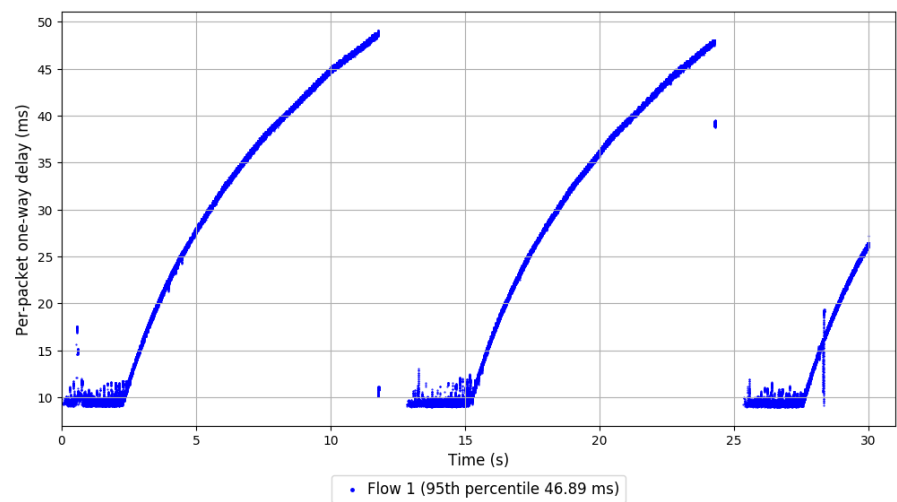
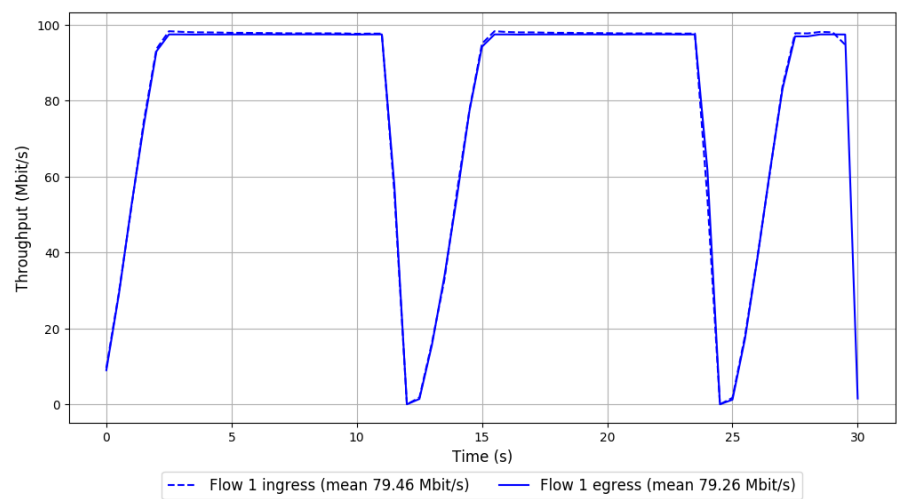
-- Flow 1:

Average throughput: 79.26 Mbit/s

95th percentile per-packet one-way delay: 46.889 ms

Loss rate: 0.20%

Run 3: Report of LEDBAT — Data Link

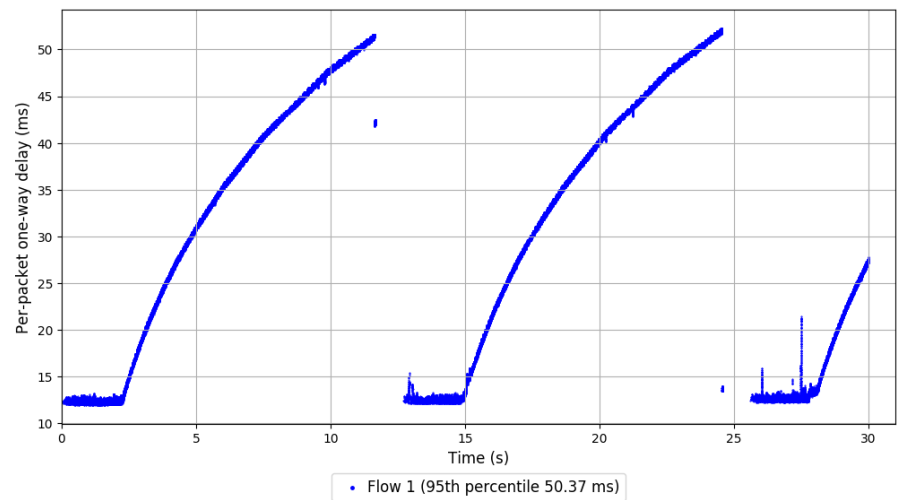
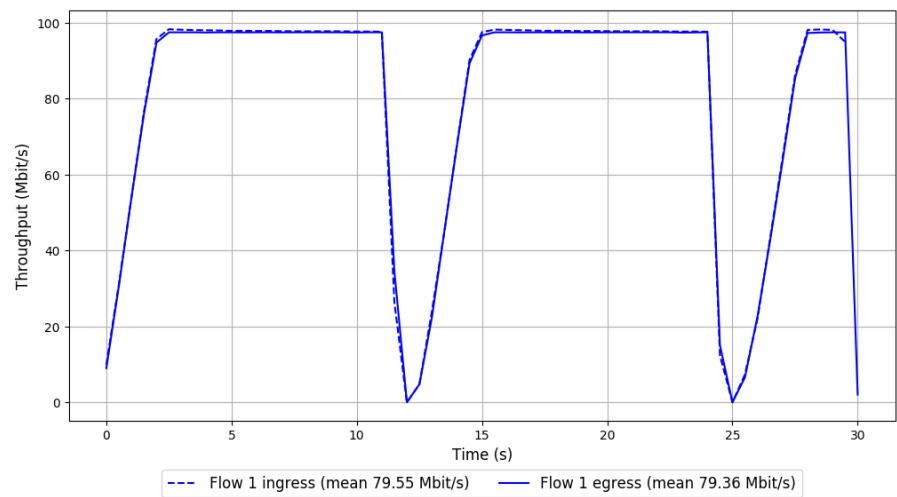


Run 4: Statistics of LEDBAT

Start at: 2018-03-13 05:22:49
End at: 2018-03-13 05:23:19
Local clock offset: 1.361 ms
Remote clock offset: -0.489 ms

Below is generated by plot.py at 2018-03-13 08:26:28
Datalink statistics
-- Total of 1 flow:
Average throughput: 79.36 Mbit/s
95th percentile per-packet one-way delay: 50.368 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 79.36 Mbit/s
95th percentile per-packet one-way delay: 50.368 ms
Loss rate: 0.20%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-03-13 05:43:43

End at: 2018-03-13 05:44:13

Local clock offset: 3.087 ms

Remote clock offset: -8.42 ms

Below is generated by plot.py at 2018-03-13 08:27:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.07 Mbit/s

95th percentile per-packet one-way delay: 47.000 ms

Loss rate: 0.19%

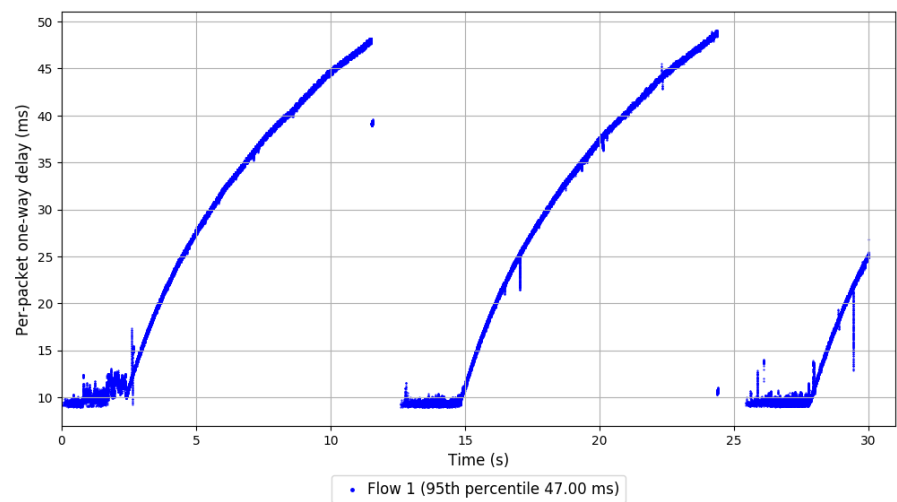
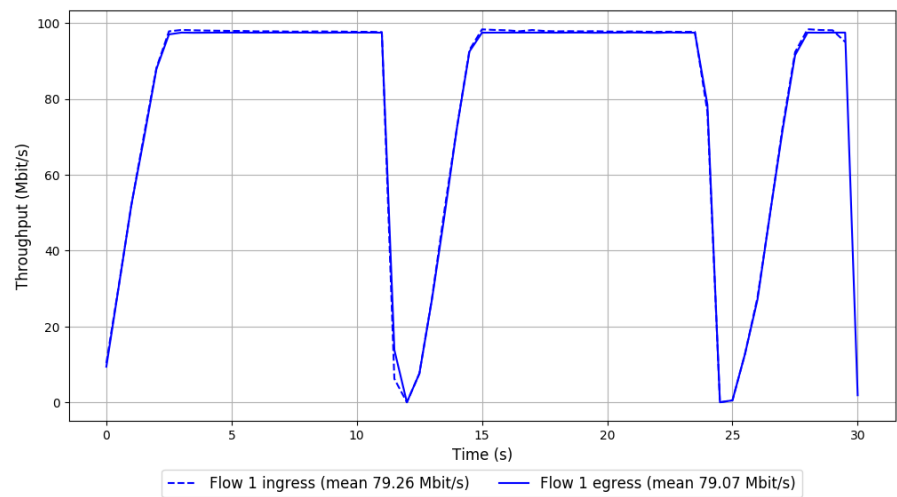
-- Flow 1:

Average throughput: 79.07 Mbit/s

95th percentile per-packet one-way delay: 47.000 ms

Loss rate: 0.19%

Run 5: Report of LEDBAT — Data Link

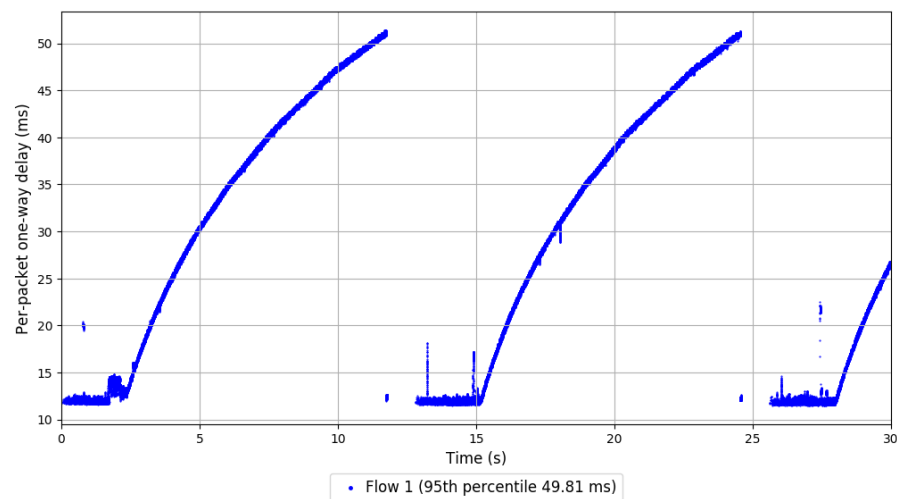
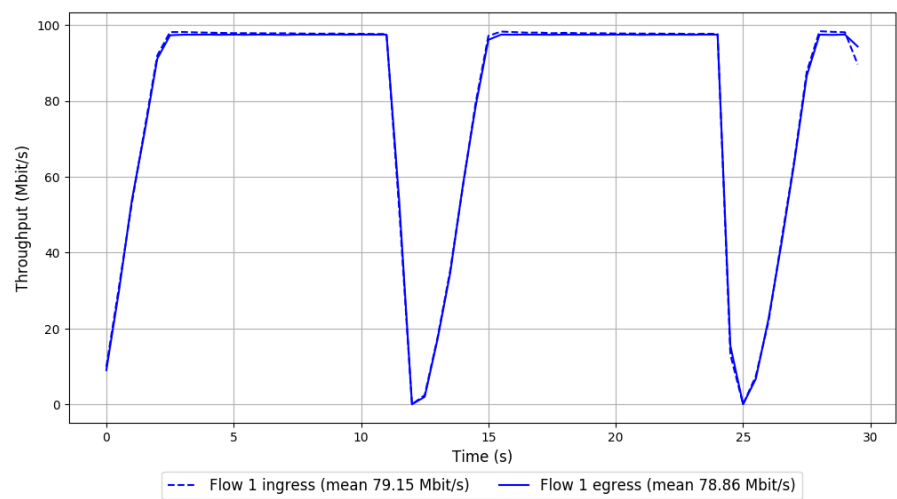


Run 6: Statistics of LEDBAT

Start at: 2018-03-13 06:04:41
End at: 2018-03-13 06:05:11
Local clock offset: 1.011 ms
Remote clock offset: -2.436 ms

Below is generated by plot.py at 2018-03-13 08:27:30
Datalink statistics
-- Total of 1 flow:
Average throughput: 78.86 Mbit/s
95th percentile per-packet one-way delay: 49.813 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 78.86 Mbit/s
95th percentile per-packet one-way delay: 49.813 ms
Loss rate: 0.32%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-03-13 06:25:43

End at: 2018-03-13 06:26:13

Local clock offset: 5.574 ms

Remote clock offset: -0.74 ms

Below is generated by plot.py at 2018-03-13 08:27:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.24 Mbit/s

95th percentile per-packet one-way delay: 46.266 ms

Loss rate: 0.20%

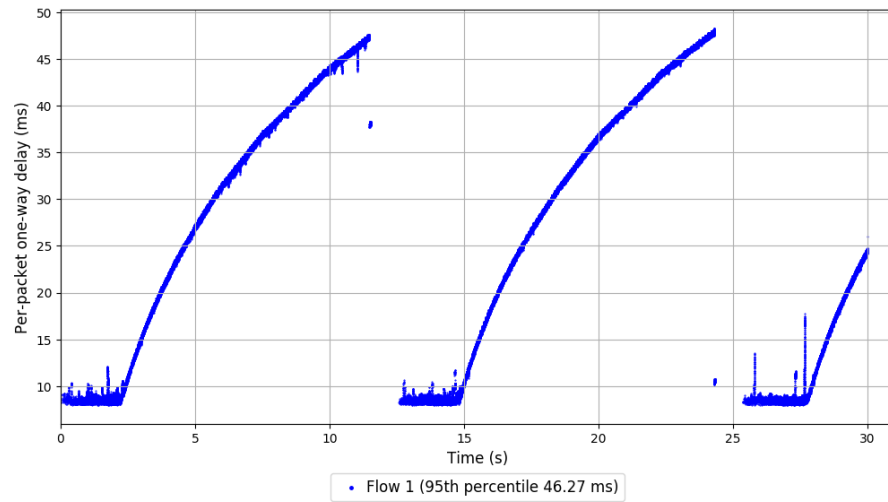
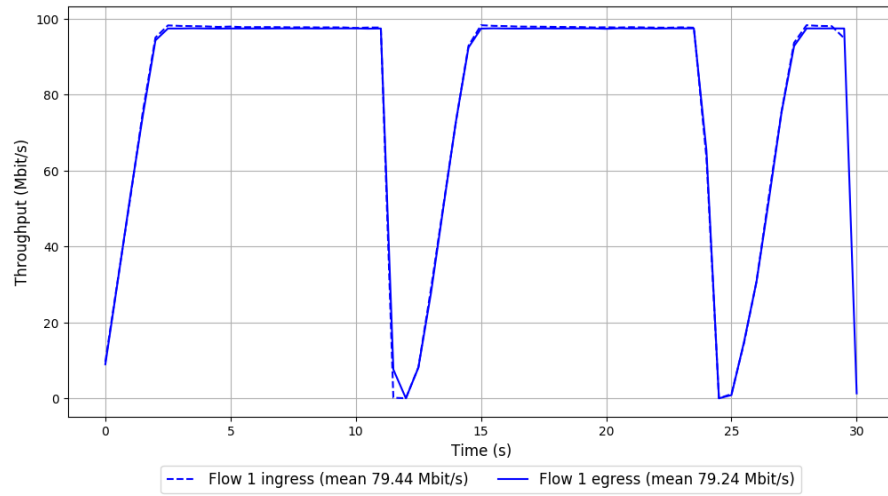
-- Flow 1:

Average throughput: 79.24 Mbit/s

95th percentile per-packet one-way delay: 46.266 ms

Loss rate: 0.20%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-03-13 06:47:00

End at: 2018-03-13 06:47:30

Local clock offset: 4.076 ms

Remote clock offset: 0.451 ms

Below is generated by plot.py at 2018-03-13 08:27:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.87 Mbit/s

95th percentile per-packet one-way delay: 44.306 ms

Loss rate: 0.05%

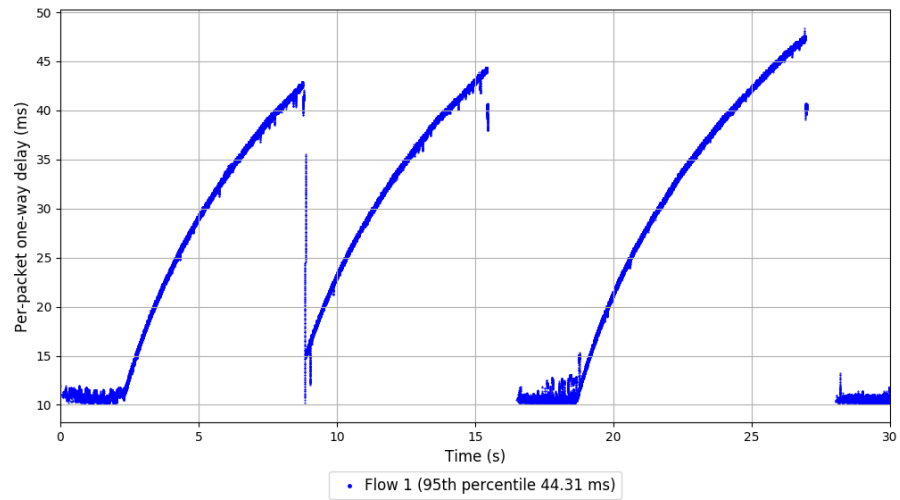
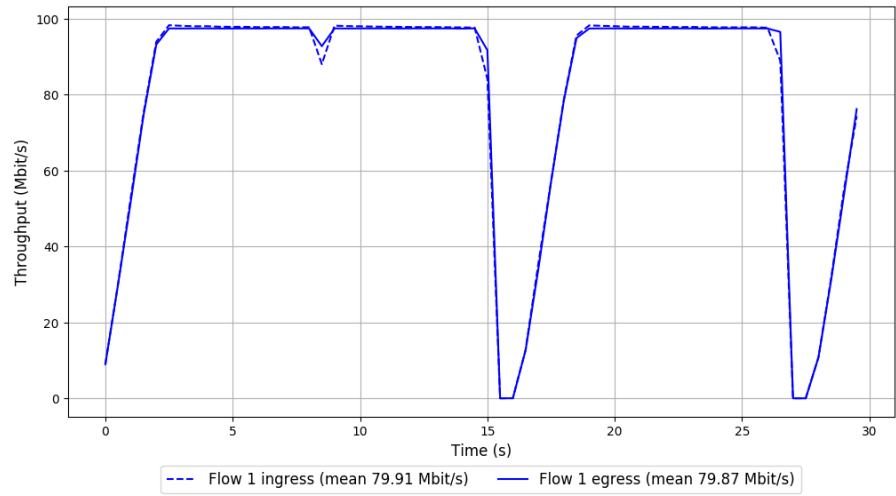
-- Flow 1:

Average throughput: 79.87 Mbit/s

95th percentile per-packet one-way delay: 44.306 ms

Loss rate: 0.05%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-03-13 07:08:14

End at: 2018-03-13 07:08:44

Local clock offset: 1.959 ms

Remote clock offset: 9.248 ms

Below is generated by plot.py at 2018-03-13 08:27:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.87 Mbit/s

95th percentile per-packet one-way delay: 49.240 ms

Loss rate: 0.18%

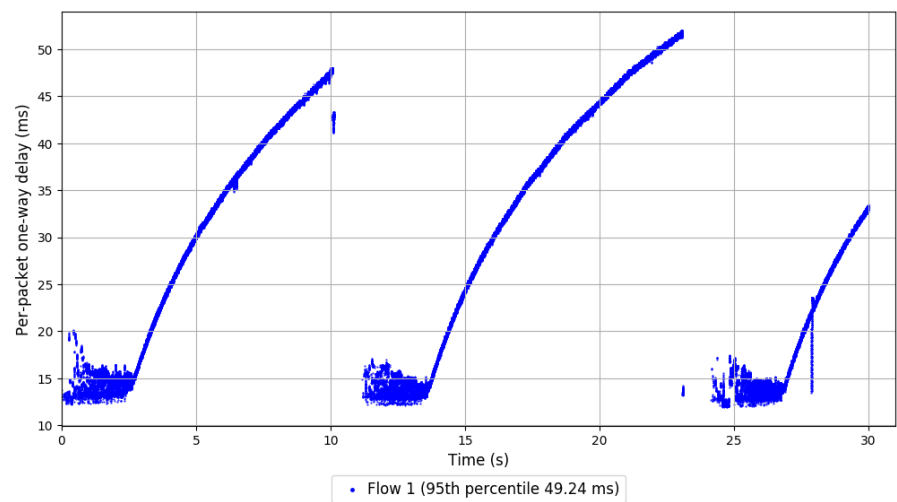
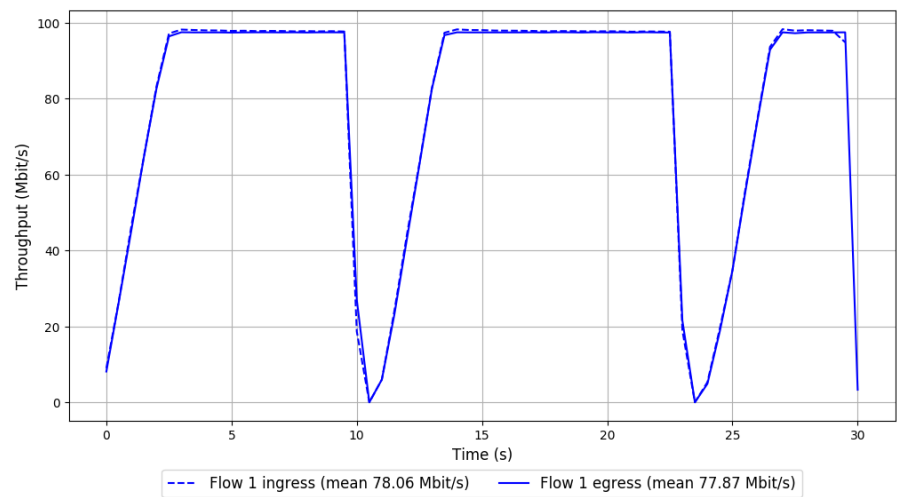
-- Flow 1:

Average throughput: 77.87 Mbit/s

95th percentile per-packet one-way delay: 49.240 ms

Loss rate: 0.18%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-03-13 07:28:59

End at: 2018-03-13 07:29:29

Local clock offset: 3.727 ms

Remote clock offset: 18.578 ms

Below is generated by plot.py at 2018-03-13 08:27:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.25 Mbit/s

95th percentile per-packet one-way delay: 46.733 ms

Loss rate: 0.18%

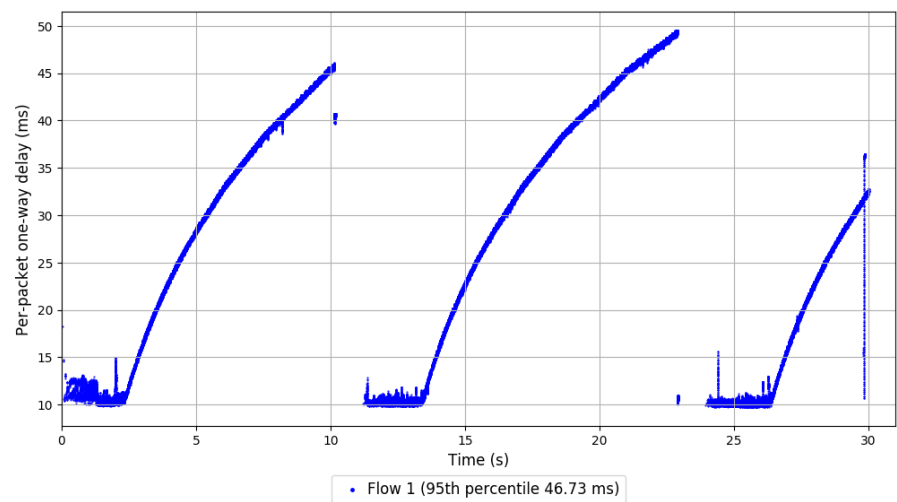
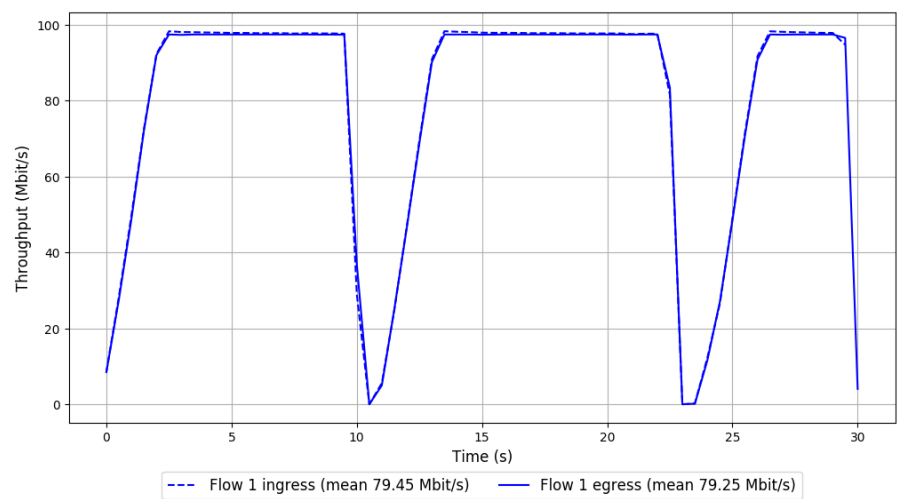
-- Flow 1:

Average throughput: 79.25 Mbit/s

95th percentile per-packet one-way delay: 46.733 ms

Loss rate: 0.18%

Run 10: Report of LEDBAT — Data Link

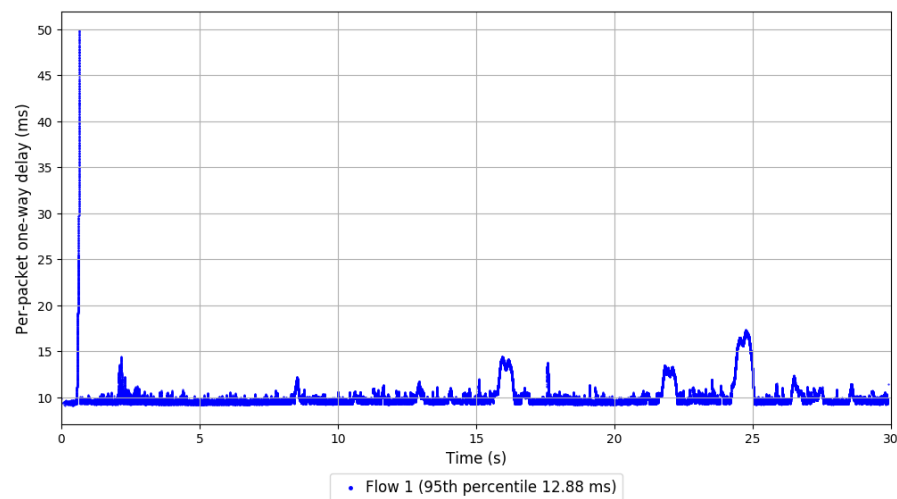
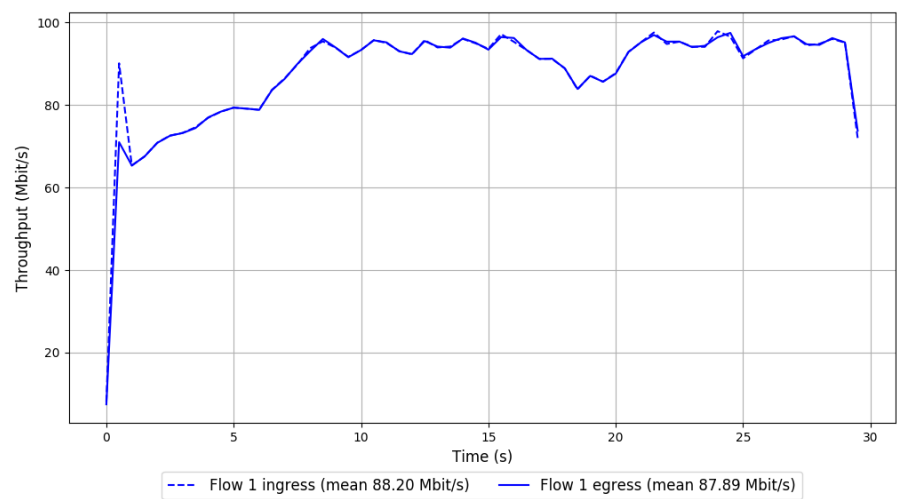


Run 1: Statistics of PCC

Start at: 2018-03-13 04:34:25
End at: 2018-03-13 04:34:55
Local clock offset: 4.69 ms
Remote clock offset: -0.264 ms

Below is generated by plot.py at 2018-03-13 08:27:48
Datalink statistics
-- Total of 1 flow:
Average throughput: 87.89 Mbit/s
95th percentile per-packet one-way delay: 12.876 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 87.89 Mbit/s
95th percentile per-packet one-way delay: 12.876 ms
Loss rate: 0.35%

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2018-03-13 04:55:38

End at: 2018-03-13 04:56:08

Local clock offset: 4.346 ms

Remote clock offset: 1.49 ms

Below is generated by plot.py at 2018-03-13 08:27:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.50 Mbit/s

95th percentile per-packet one-way delay: 11.628 ms

Loss rate: 0.28%

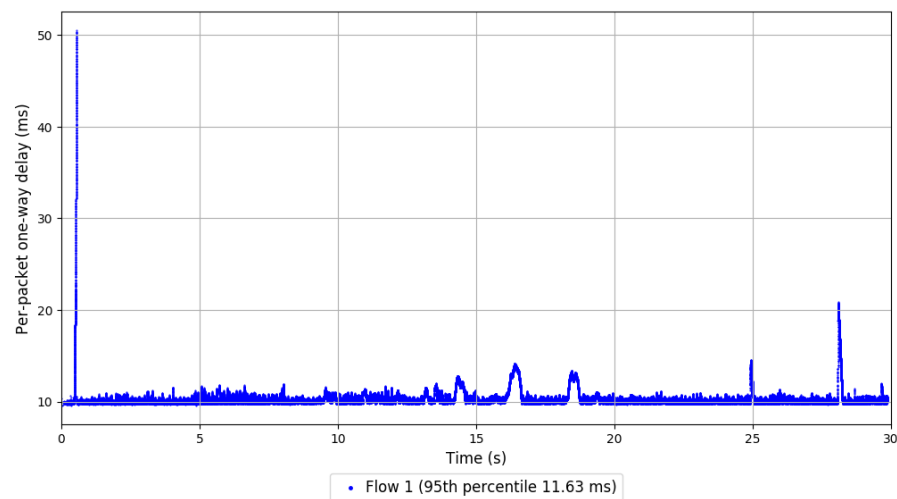
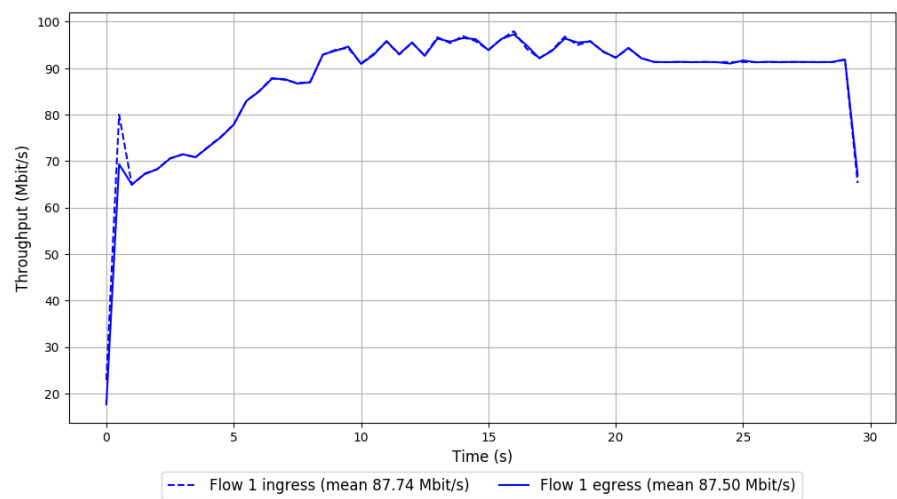
-- Flow 1:

Average throughput: 87.50 Mbit/s

95th percentile per-packet one-way delay: 11.628 ms

Loss rate: 0.28%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-03-13 05:16:53

End at: 2018-03-13 05:17:23

Local clock offset: 4.159 ms

Remote clock offset: 3.61 ms

Below is generated by plot.py at 2018-03-13 08:28:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.18 Mbit/s

95th percentile per-packet one-way delay: 13.487 ms

Loss rate: 0.28%

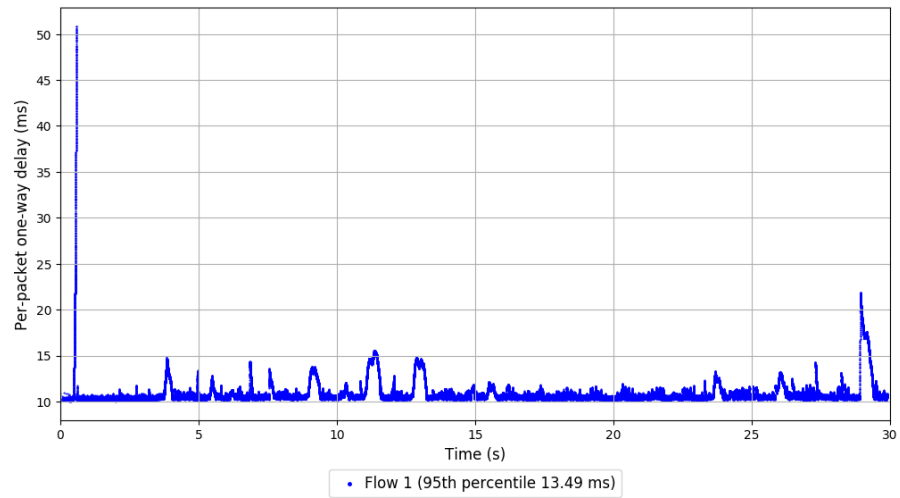
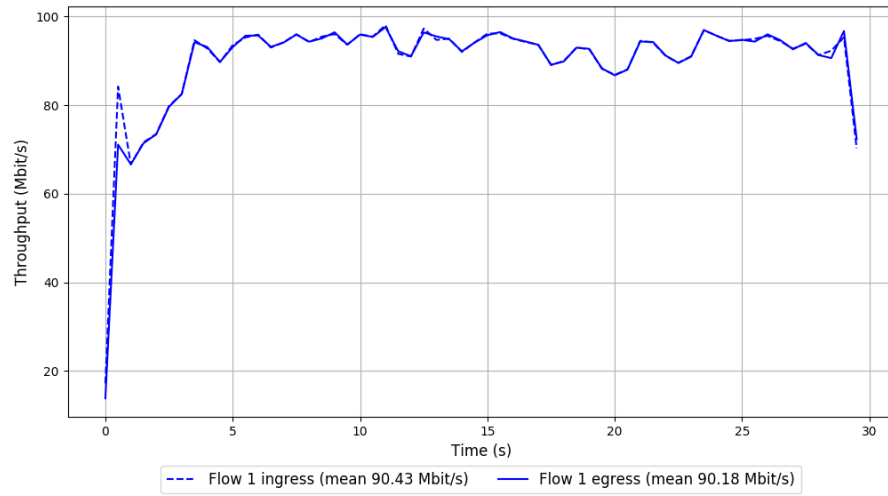
-- Flow 1:

Average throughput: 90.18 Mbit/s

95th percentile per-packet one-way delay: 13.487 ms

Loss rate: 0.28%

Run 3: Report of PCC — Data Link

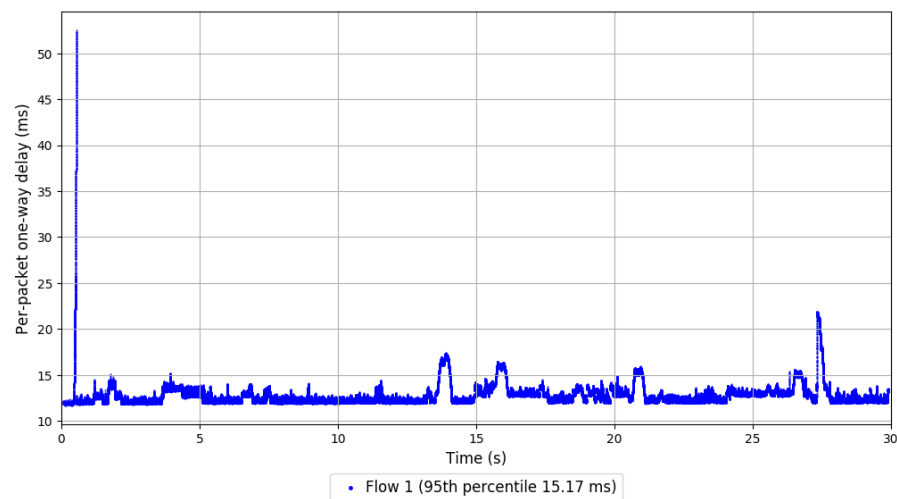
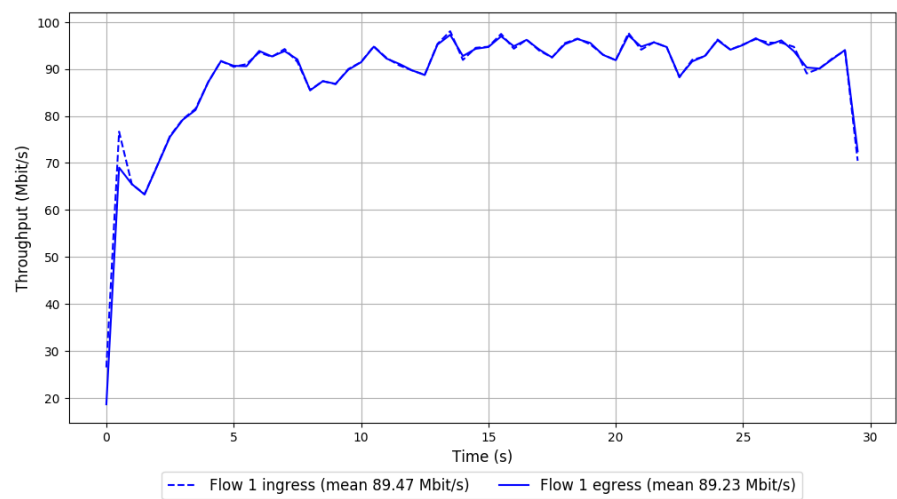


Run 4: Statistics of PCC

Start at: 2018-03-13 05:37:47
End at: 2018-03-13 05:38:17
Local clock offset: 1.706 ms
Remote clock offset: -5.752 ms

Below is generated by plot.py at 2018-03-13 08:28:54
Datalink statistics
-- Total of 1 flow:
Average throughput: 89.23 Mbit/s
95th percentile per-packet one-way delay: 15.167 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 89.23 Mbit/s
95th percentile per-packet one-way delay: 15.167 ms
Loss rate: 0.26%

Run 4: Report of PCC — Data Link

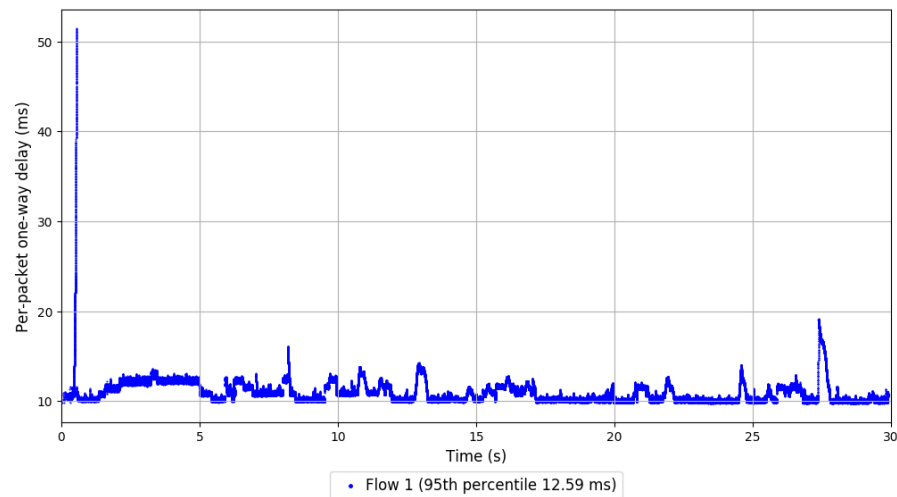
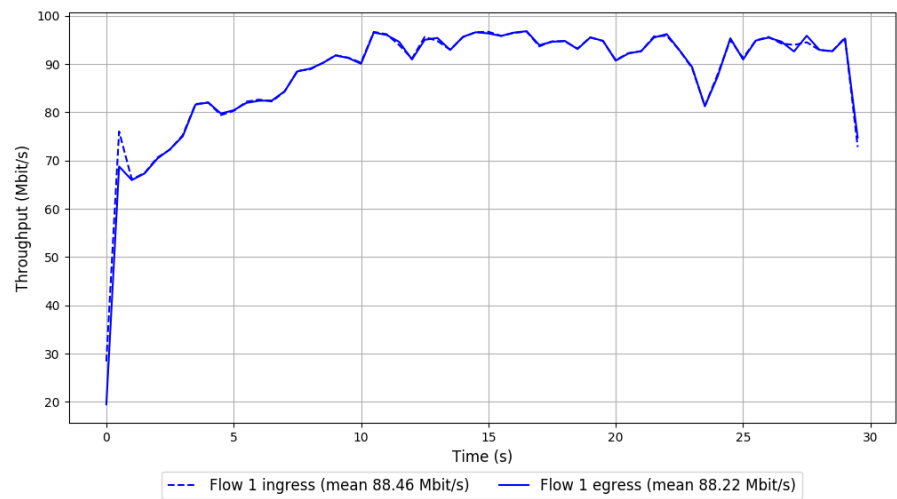


Run 5: Statistics of PCC

Start at: 2018-03-13 05:58:43
End at: 2018-03-13 05:59:13
Local clock offset: 1.711 ms
Remote clock offset: -6.032 ms

Below is generated by plot.py at 2018-03-13 08:28:55
Datalink statistics
-- Total of 1 flow:
Average throughput: 88.22 Mbit/s
95th percentile per-packet one-way delay: 12.590 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 88.22 Mbit/s
95th percentile per-packet one-way delay: 12.590 ms
Loss rate: 0.28%

Run 5: Report of PCC — Data Link

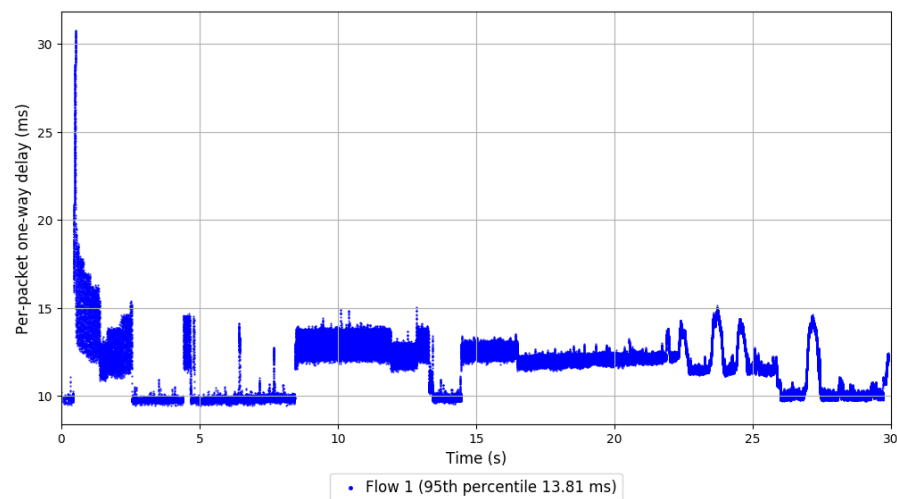
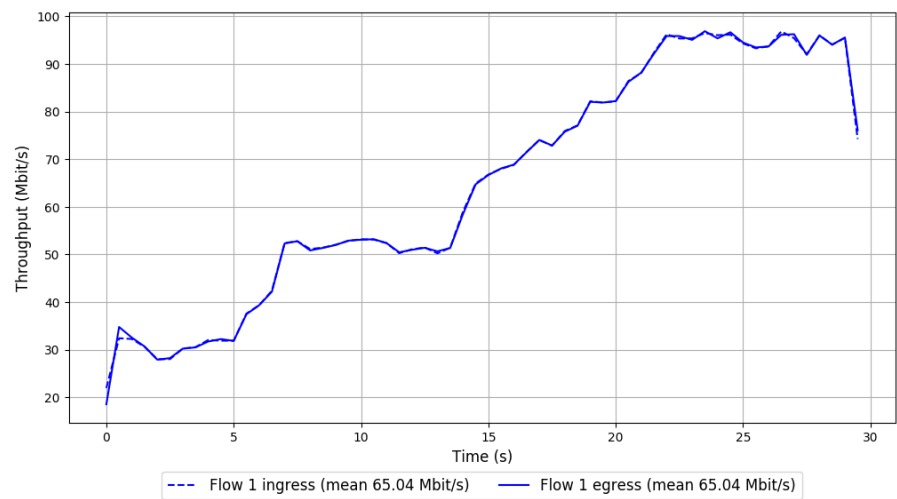


Run 6: Statistics of PCC

Start at: 2018-03-13 06:19:45
End at: 2018-03-13 06:20:16
Local clock offset: 4.71 ms
Remote clock offset: -0.096 ms

Below is generated by plot.py at 2018-03-13 08:28:55
Datalink statistics
-- Total of 1 flow:
Average throughput: 65.04 Mbit/s
95th percentile per-packet one-way delay: 13.809 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 65.04 Mbit/s
95th percentile per-packet one-way delay: 13.809 ms
Loss rate: 0.00%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-03-13 06:41:01

End at: 2018-03-13 06:41:31

Local clock offset: 5.132 ms

Remote clock offset: 0.228 ms

Below is generated by plot.py at 2018-03-13 08:29:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.69 Mbit/s

95th percentile per-packet one-way delay: 13.095 ms

Loss rate: 0.34%

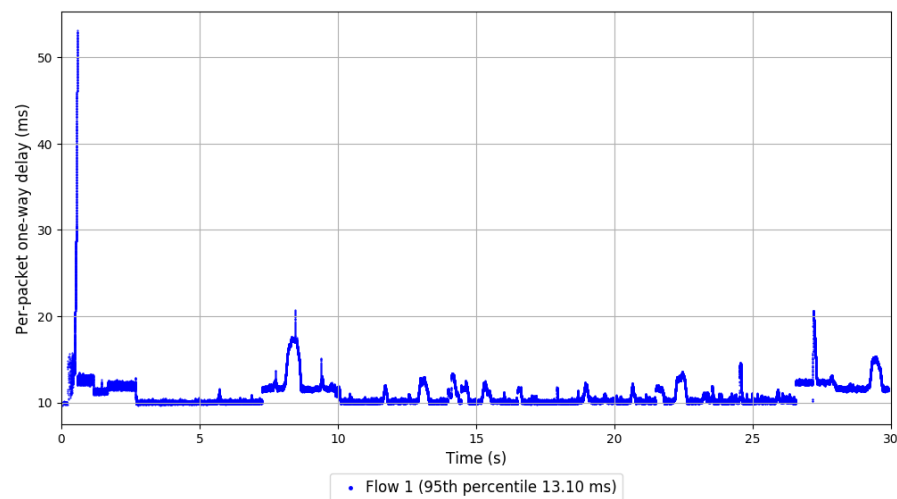
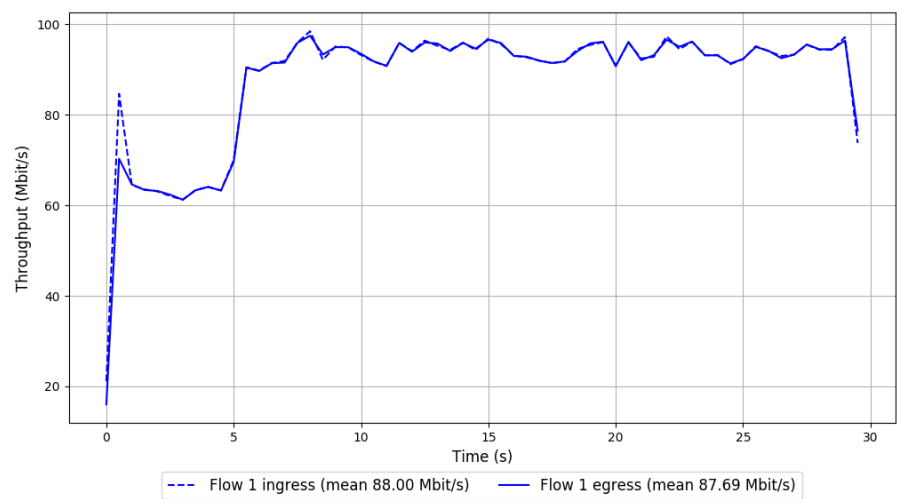
-- Flow 1:

Average throughput: 87.69 Mbit/s

95th percentile per-packet one-way delay: 13.095 ms

Loss rate: 0.34%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-03-13 07:02:17

End at: 2018-03-13 07:02:47

Local clock offset: 5.161 ms

Remote clock offset: 2.174 ms

Below is generated by plot.py at 2018-03-13 08:29:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.46 Mbit/s

95th percentile per-packet one-way delay: 11.738 ms

Loss rate: 0.00%

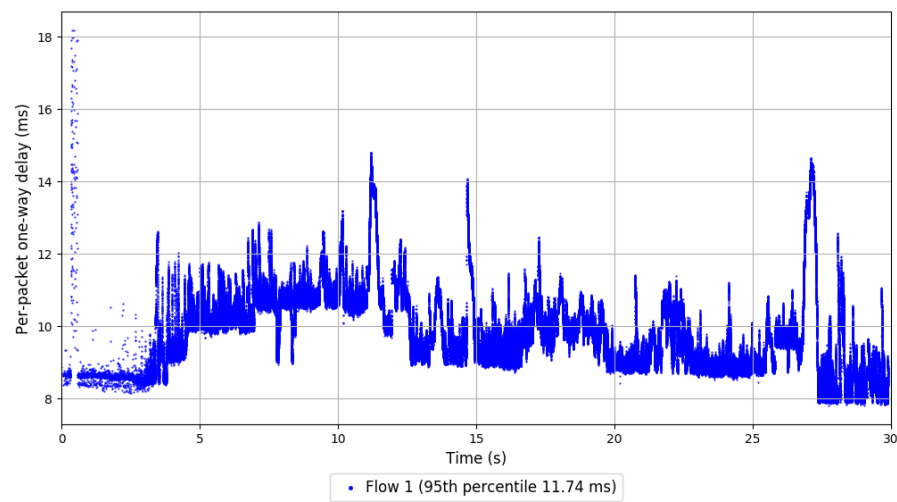
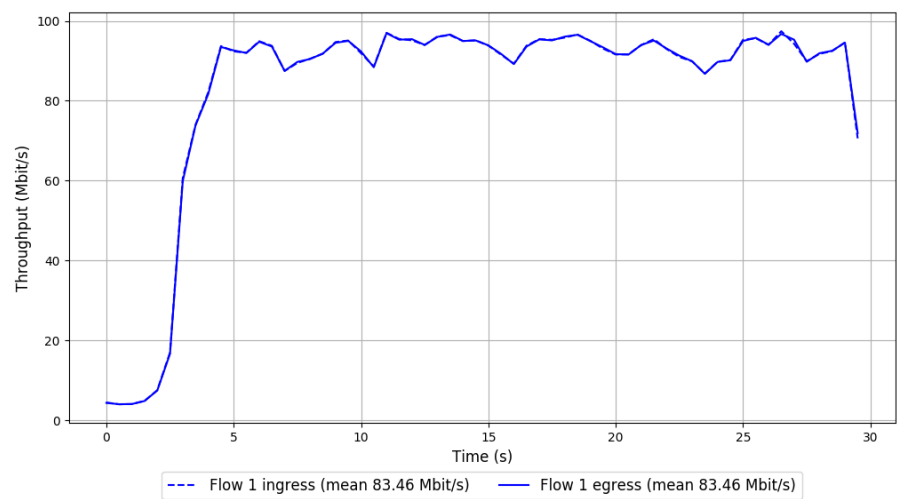
-- Flow 1:

Average throughput: 83.46 Mbit/s

95th percentile per-packet one-way delay: 11.738 ms

Loss rate: 0.00%

Run 8: Report of PCC — Data Link

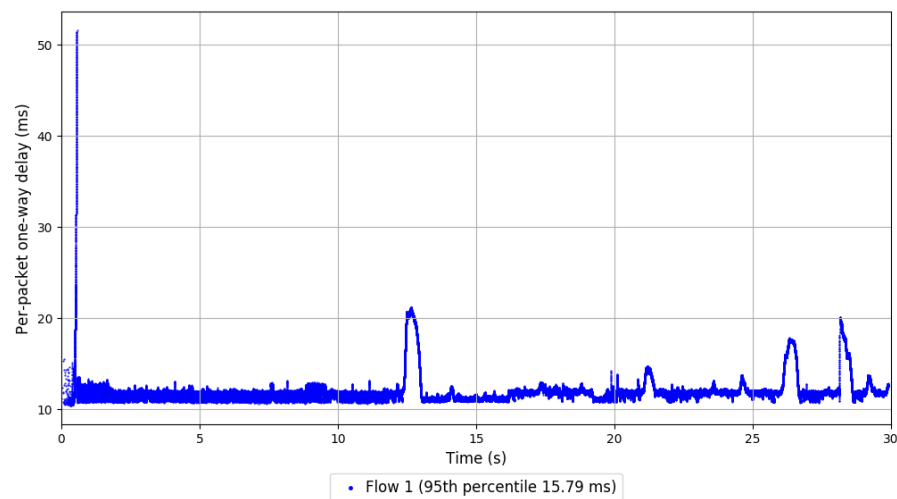
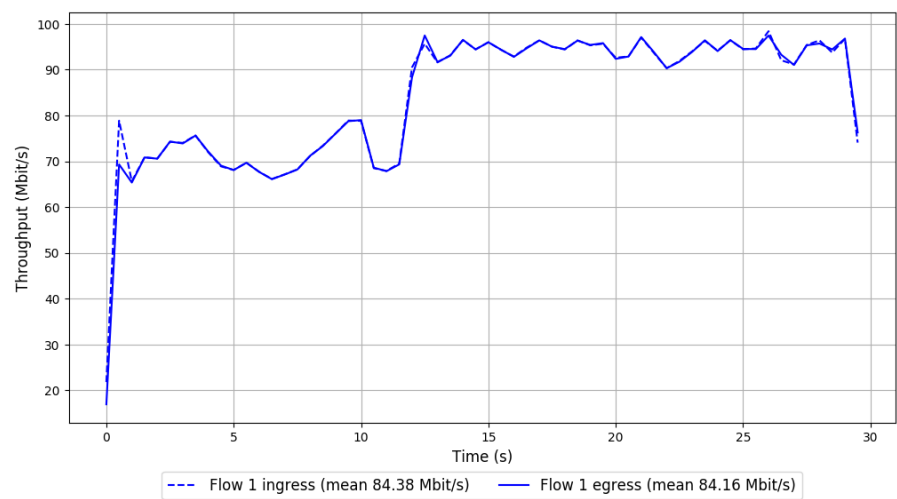


Run 9: Statistics of PCC

Start at: 2018-03-13 07:23:06
End at: 2018-03-13 07:23:36
Local clock offset: 3.533 ms
Remote clock offset: 16.685 ms

Below is generated by plot.py at 2018-03-13 08:29:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 84.16 Mbit/s
95th percentile per-packet one-way delay: 15.795 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 84.16 Mbit/s
95th percentile per-packet one-way delay: 15.795 ms
Loss rate: 0.26%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2018-03-13 07:43:53

End at: 2018-03-13 07:44:23

Local clock offset: 1.024 ms

Remote clock offset: 6.049 ms

Below is generated by plot.py at 2018-03-13 08:29:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 81.72 Mbit/s

95th percentile per-packet one-way delay: 16.090 ms

Loss rate: 0.28%

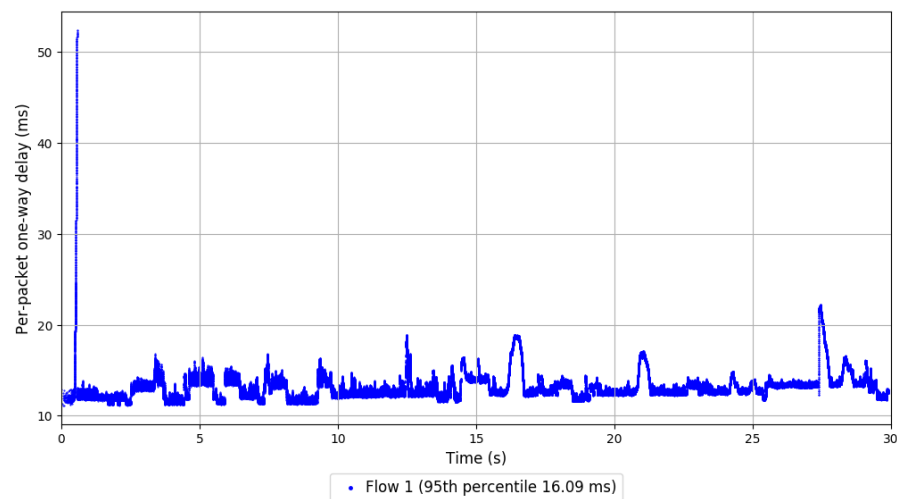
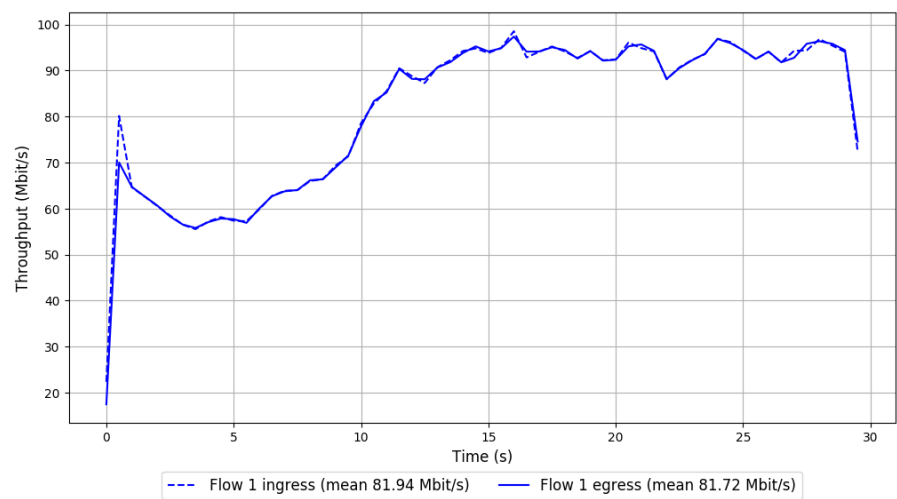
-- Flow 1:

Average throughput: 81.72 Mbit/s

95th percentile per-packet one-way delay: 16.090 ms

Loss rate: 0.28%

Run 10: Report of PCC — Data Link



Run 1: Statistics of QUIC Cubic

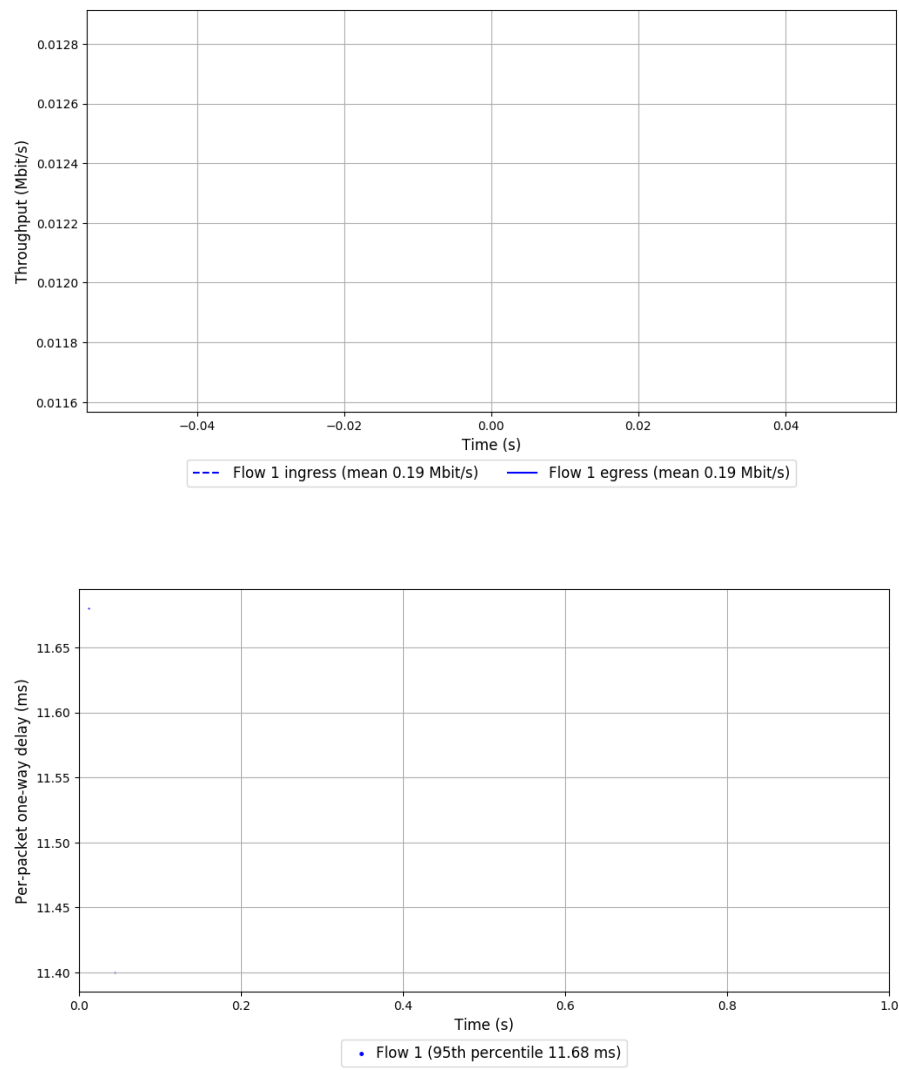
Start at: 2018-03-13 04:33:20

End at: 2018-03-13 04:33:50

Local clock offset: 3.147 ms

Remote clock offset: 0.211 ms

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-03-13 04:54:25

End at: 2018-03-13 04:54:55

Local clock offset: 4.924 ms

Remote clock offset: 2.27 ms

Below is generated by plot.py at 2018-03-13 08:29:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.25 Mbit/s

95th percentile per-packet one-way delay: 10.869 ms

Loss rate: 0.00%

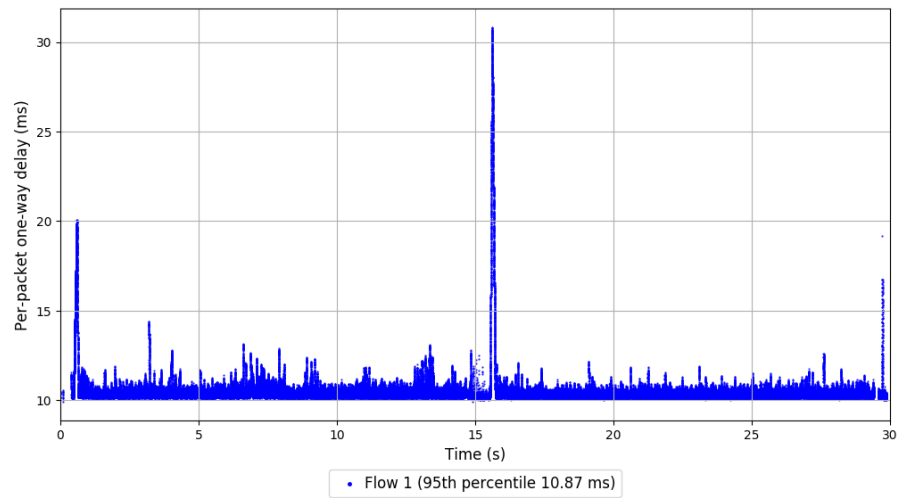
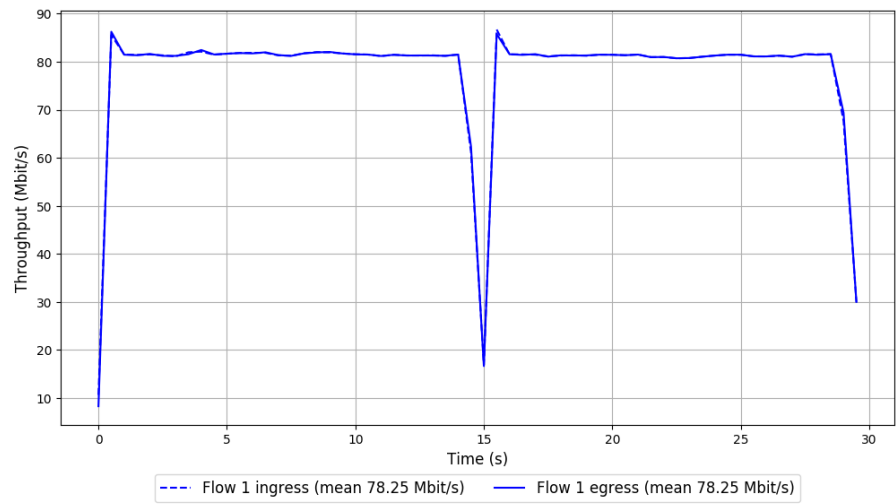
-- Flow 1:

Average throughput: 78.25 Mbit/s

95th percentile per-packet one-way delay: 10.869 ms

Loss rate: 0.00%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-03-13 05:15:44

End at: 2018-03-13 05:16:14

Local clock offset: 0.939 ms

Remote clock offset: 2.665 ms

Below is generated by plot.py at 2018-03-13 08:30:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.18 Mbit/s

95th percentile per-packet one-way delay: 50.101 ms

Loss rate: 0.76%

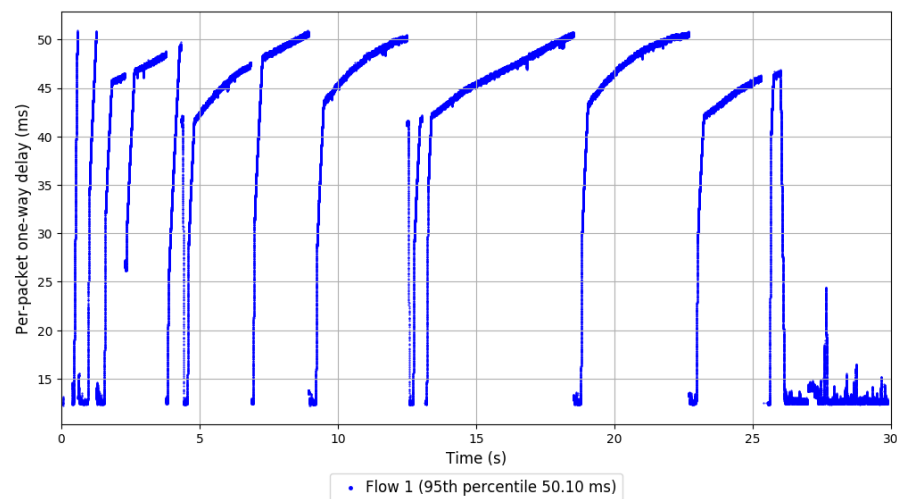
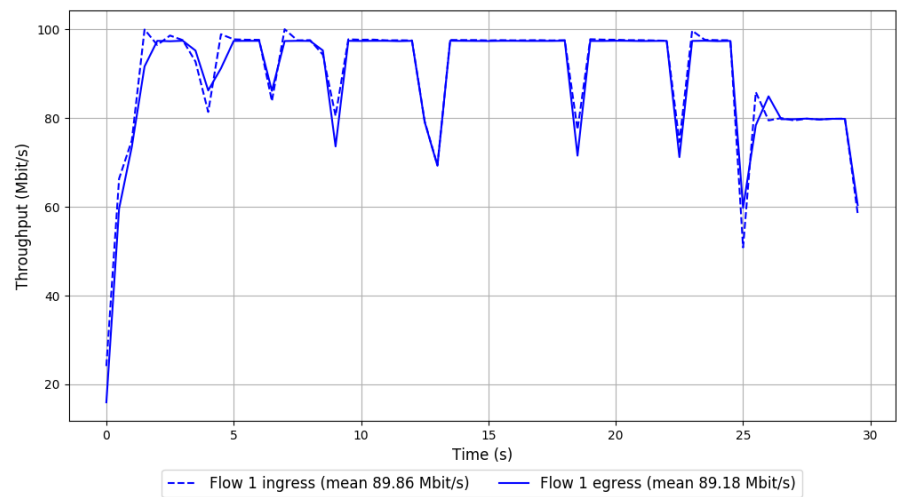
-- Flow 1:

Average throughput: 89.18 Mbit/s

95th percentile per-packet one-way delay: 50.101 ms

Loss rate: 0.76%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-03-13 05:36:37

End at: 2018-03-13 05:37:07

Local clock offset: 4.889 ms

Remote clock offset: -6.948 ms

Below is generated by plot.py at 2018-03-13 08:30:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.50 Mbit/s

95th percentile per-packet one-way delay: 17.751 ms

Loss rate: 0.00%

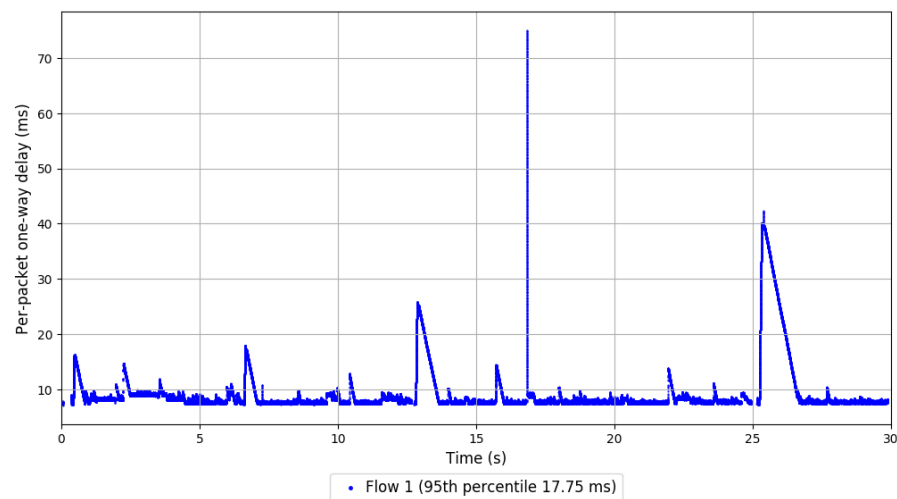
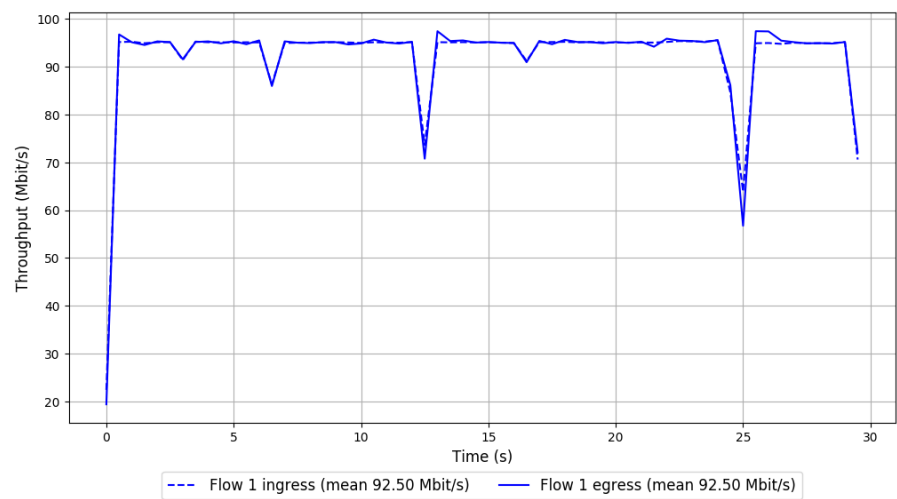
-- Flow 1:

Average throughput: 92.50 Mbit/s

95th percentile per-packet one-way delay: 17.751 ms

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-03-13 05:57:31

End at: 2018-03-13 05:58:01

Local clock offset: 2.734 ms

Remote clock offset: -5.524 ms

Below is generated by plot.py at 2018-03-13 08:30:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.29 Mbit/s

95th percentile per-packet one-way delay: 47.549 ms

Loss rate: 0.66%

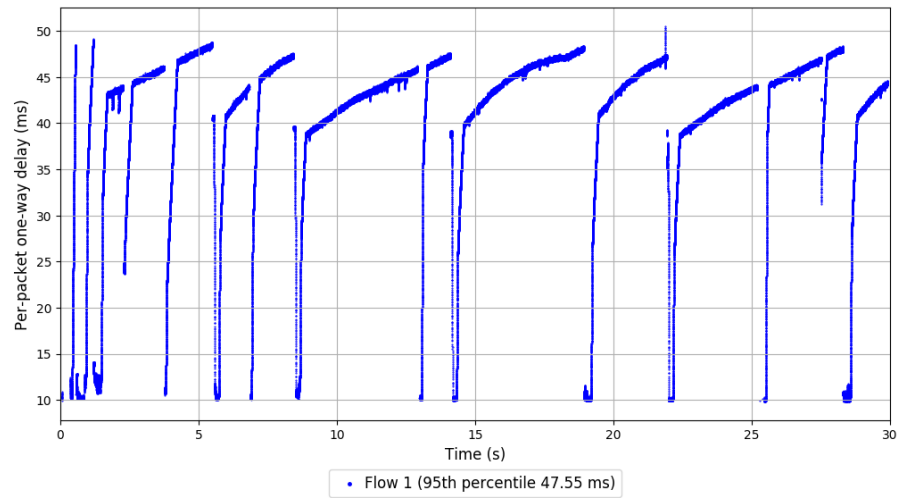
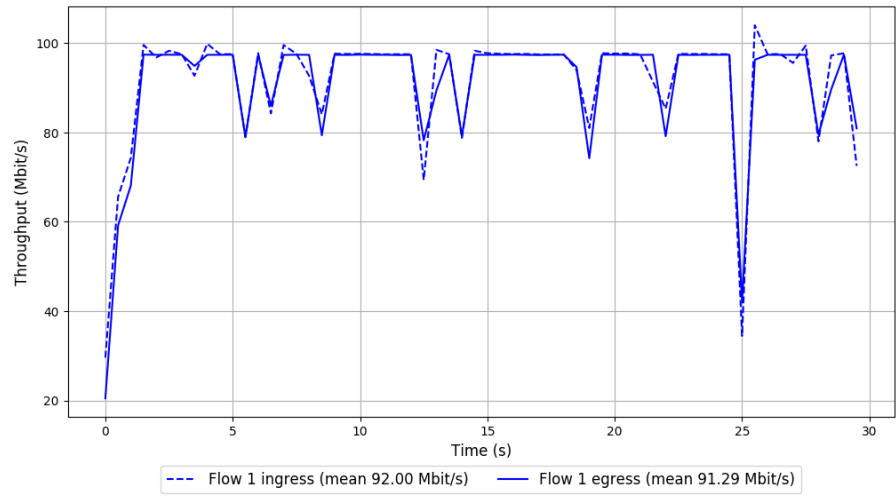
-- Flow 1:

Average throughput: 91.29 Mbit/s

95th percentile per-packet one-way delay: 47.549 ms

Loss rate: 0.66%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-03-13 06:18:36

End at: 2018-03-13 06:19:06

Local clock offset: 1.508 ms

Remote clock offset: -0.42 ms

Below is generated by plot.py at 2018-03-13 08:30:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.20 Mbit/s

95th percentile per-packet one-way delay: 50.179 ms

Loss rate: 0.66%

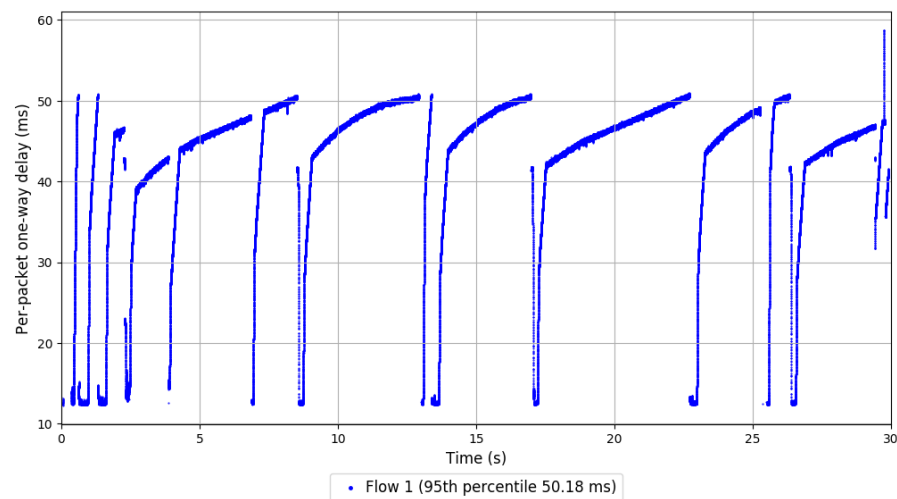
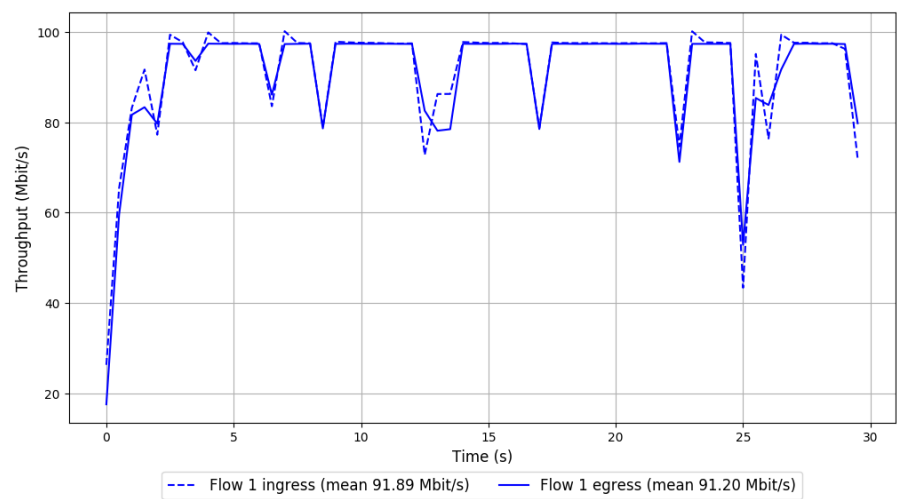
-- Flow 1:

Average throughput: 91.20 Mbit/s

95th percentile per-packet one-way delay: 50.179 ms

Loss rate: 0.66%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-03-13 06:39:50

End at: 2018-03-13 06:40:20

Local clock offset: 3.354 ms

Remote clock offset: 0.749 ms

Below is generated by plot.py at 2018-03-13 08:30:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.62 Mbit/s

95th percentile per-packet one-way delay: 19.985 ms

Loss rate: 0.00%

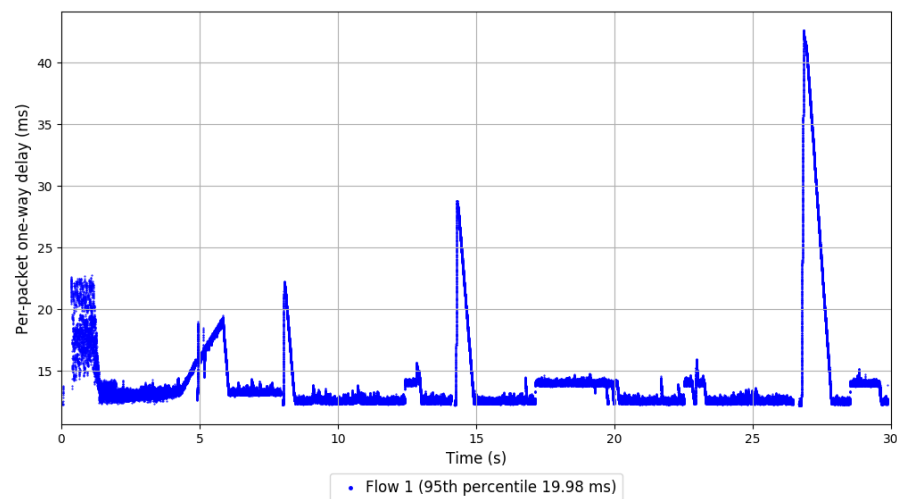
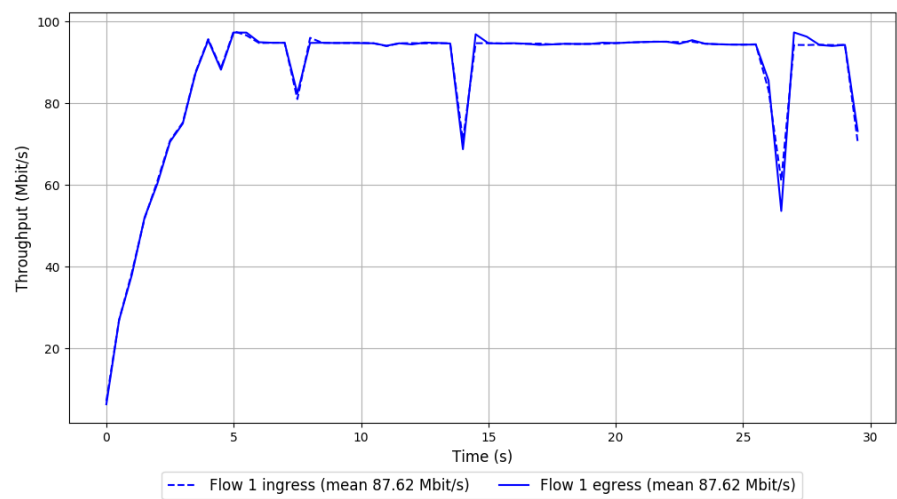
-- Flow 1:

Average throughput: 87.62 Mbit/s

95th percentile per-packet one-way delay: 19.985 ms

Loss rate: 0.00%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-03-13 07:01:05

End at: 2018-03-13 07:01:35

Local clock offset: 2.819 ms

Remote clock offset: 1.327 ms

Below is generated by plot.py at 2018-03-13 08:30:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.36 Mbit/s

95th percentile per-packet one-way delay: 48.468 ms

Loss rate: 0.56%

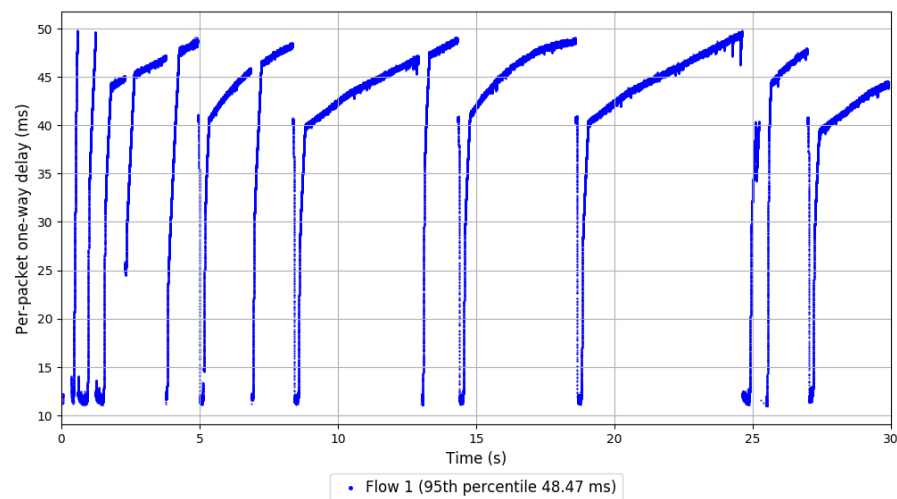
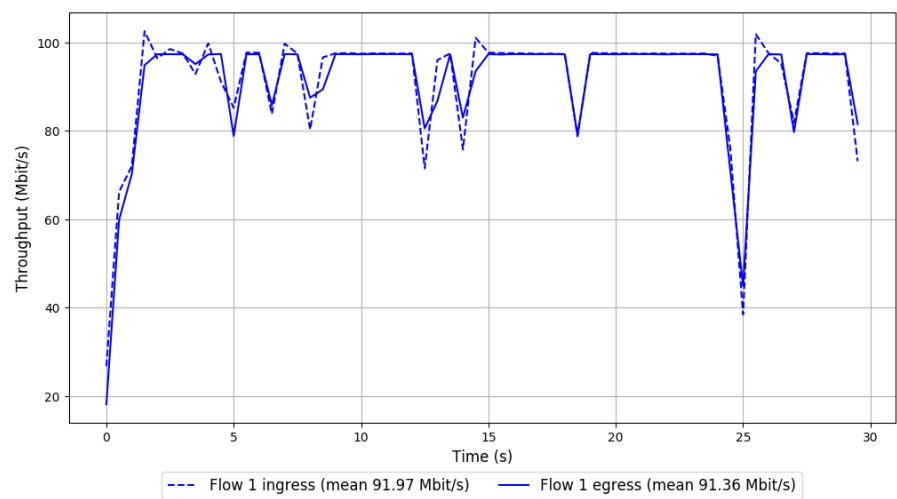
-- Flow 1:

Average throughput: 91.36 Mbit/s

95th percentile per-packet one-way delay: 48.468 ms

Loss rate: 0.56%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-03-13 07:21:54

End at: 2018-03-13 07:22:24

Local clock offset: 3.842 ms

Remote clock offset: 16.999 ms

Below is generated by plot.py at 2018-03-13 08:30:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.53 Mbit/s

95th percentile per-packet one-way delay: 15.896 ms

Loss rate: 0.00%

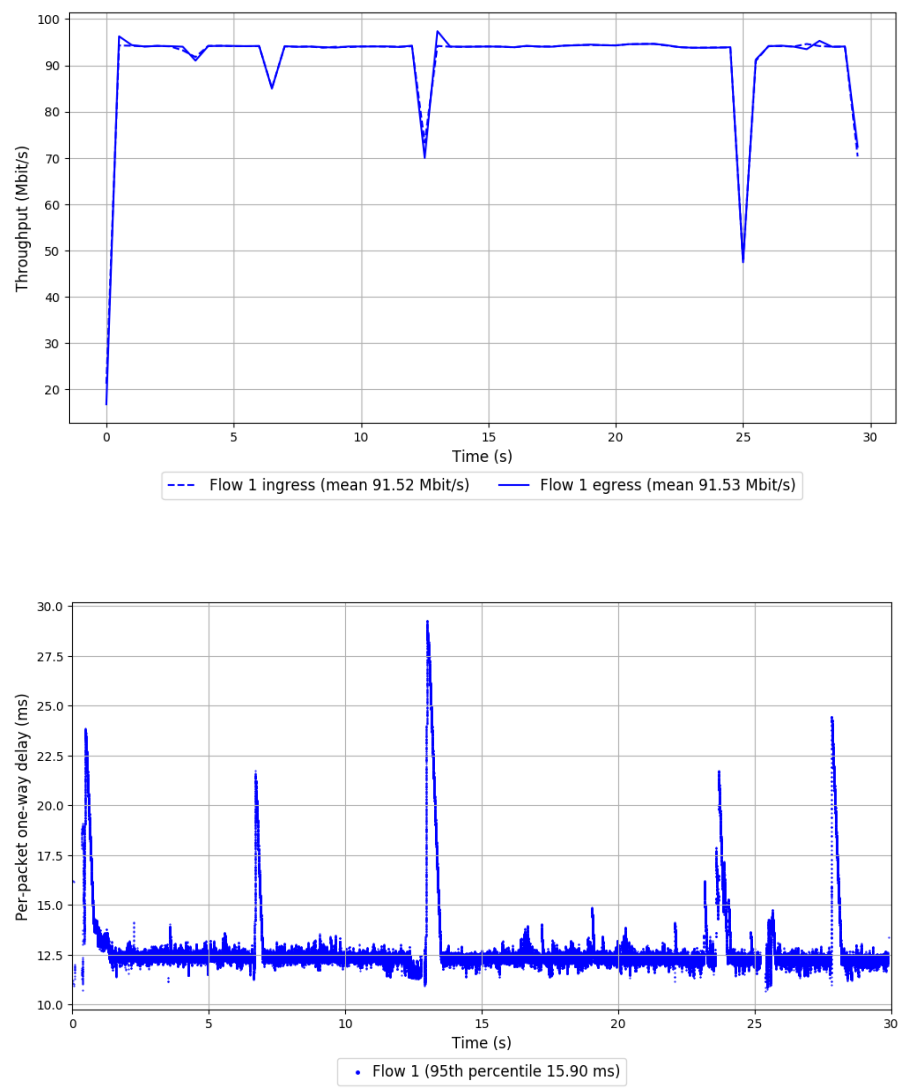
-- Flow 1:

Average throughput: 91.53 Mbit/s

95th percentile per-packet one-way delay: 15.896 ms

Loss rate: 0.00%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-03-13 07:42:42

End at: 2018-03-13 07:43:13

Local clock offset: 2.312 ms

Remote clock offset: 7.153 ms

Below is generated by plot.py at 2018-03-13 08:31:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.04 Mbit/s

95th percentile per-packet one-way delay: 45.536 ms

Loss rate: 0.06%

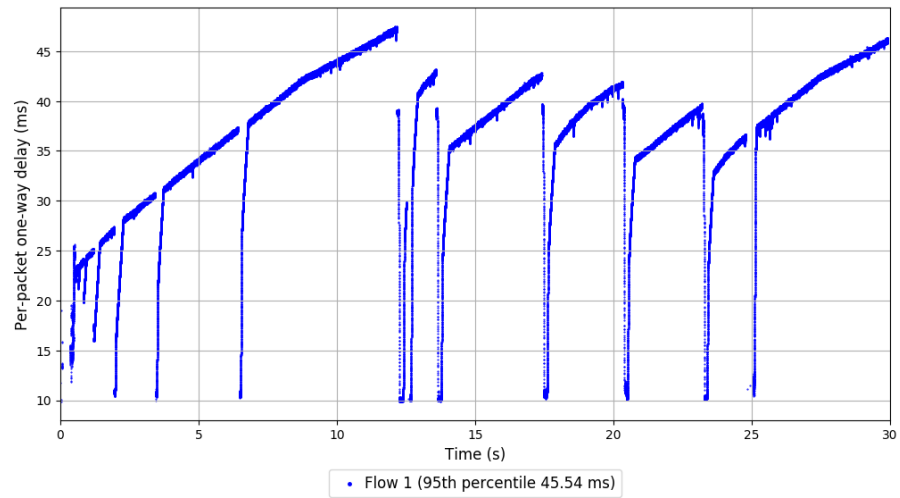
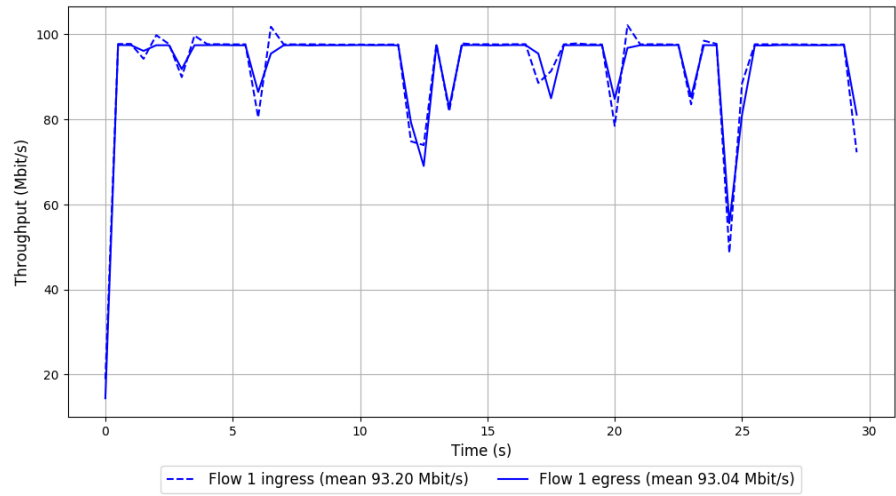
-- Flow 1:

Average throughput: 93.04 Mbit/s

95th percentile per-packet one-way delay: 45.536 ms

Loss rate: 0.06%

Run 10: Report of QUIC Cubic — Data Link

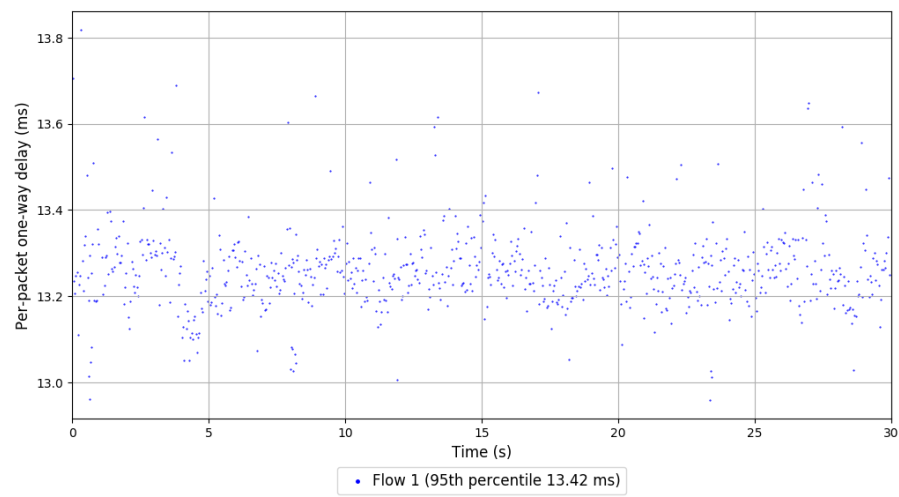
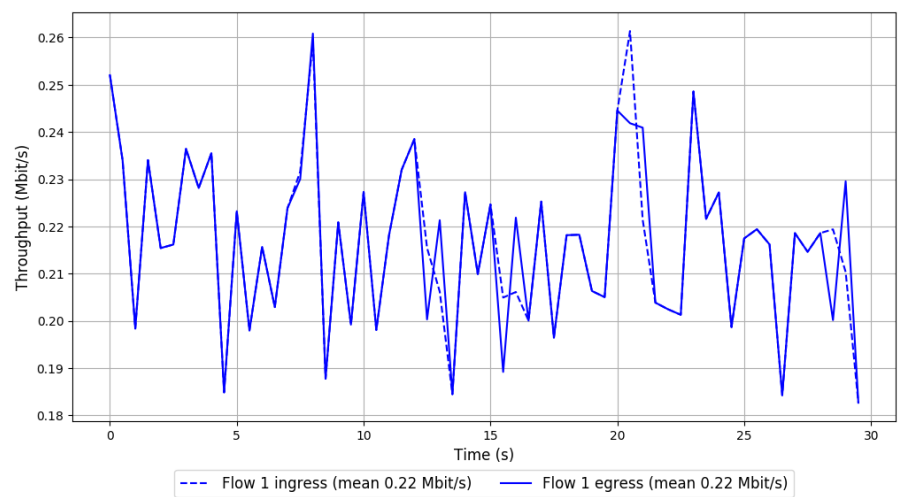


```
Run 1: Statistics of SCReAM

Start at: 2018-03-13 04:29:48
End at: 2018-03-13 04:30:18
Local clock offset: 2.447 ms
Remote clock offset: 1.207 ms

# Below is generated by plot.py at 2018-03-13 08:31:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 13.421 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 13.421 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2018-03-13 04:50:52

End at: 2018-03-13 04:51:22

Local clock offset: 5.778 ms

Remote clock offset: 0.334 ms

Below is generated by plot.py at 2018-03-13 08:31:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 7.791 ms

Loss rate: 0.00%

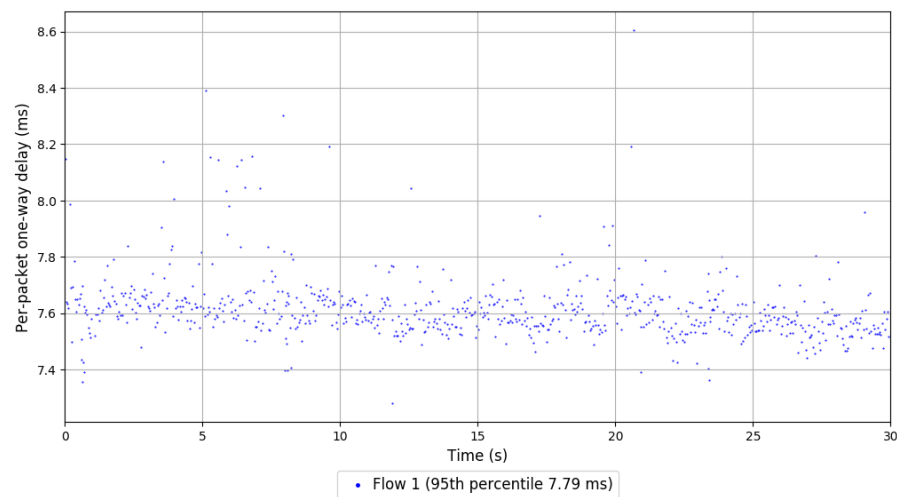
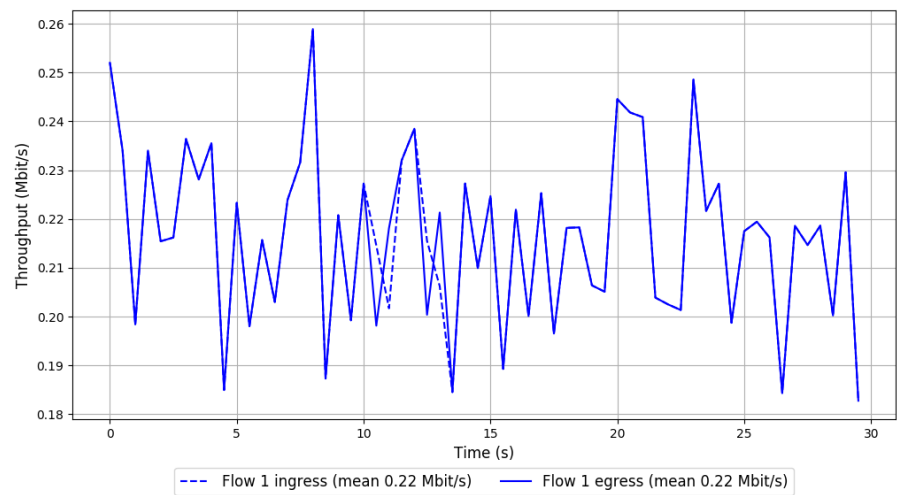
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 7.791 ms

Loss rate: 0.00%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-03-13 05:12:13

End at: 2018-03-13 05:12:43

Local clock offset: 5.038 ms

Remote clock offset: 2.128 ms

Below is generated by plot.py at 2018-03-13 08:31:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 8.903 ms

Loss rate: 0.00%

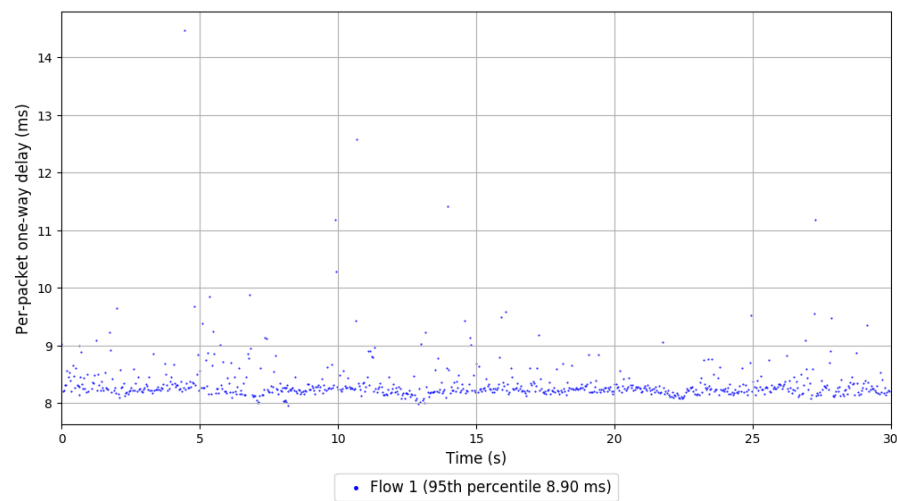
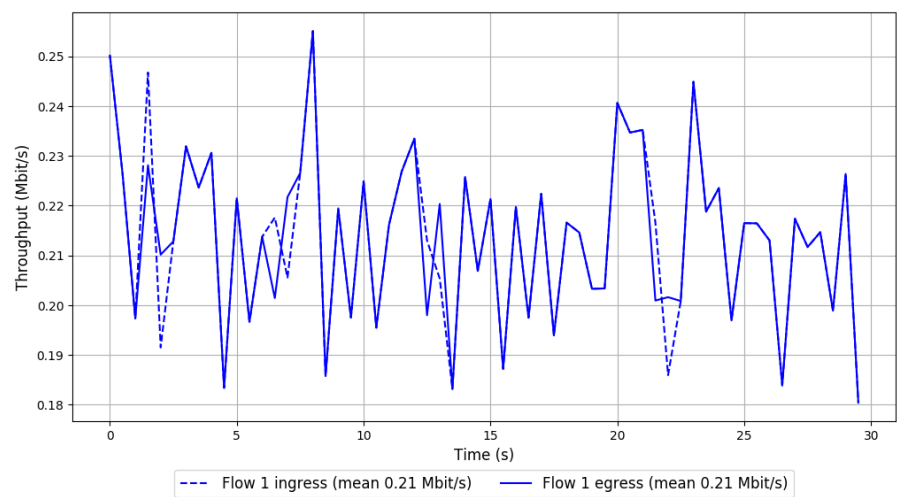
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 8.903 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link

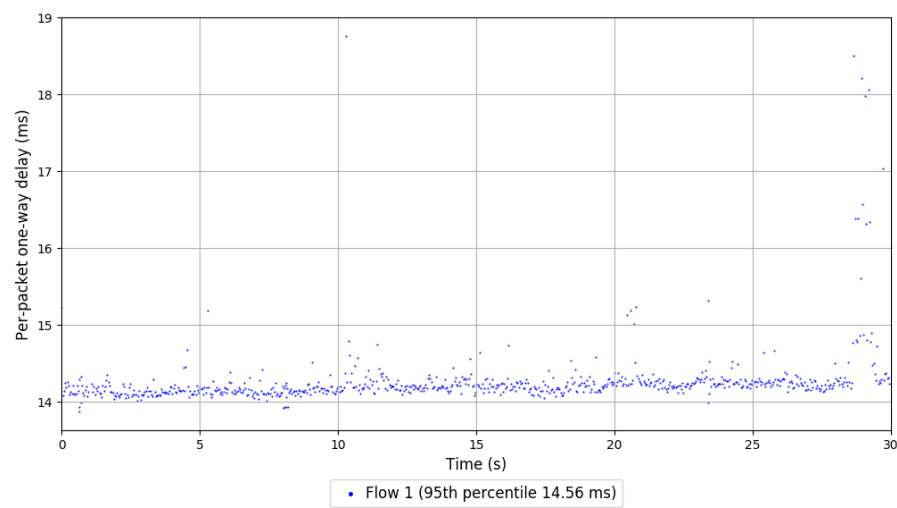
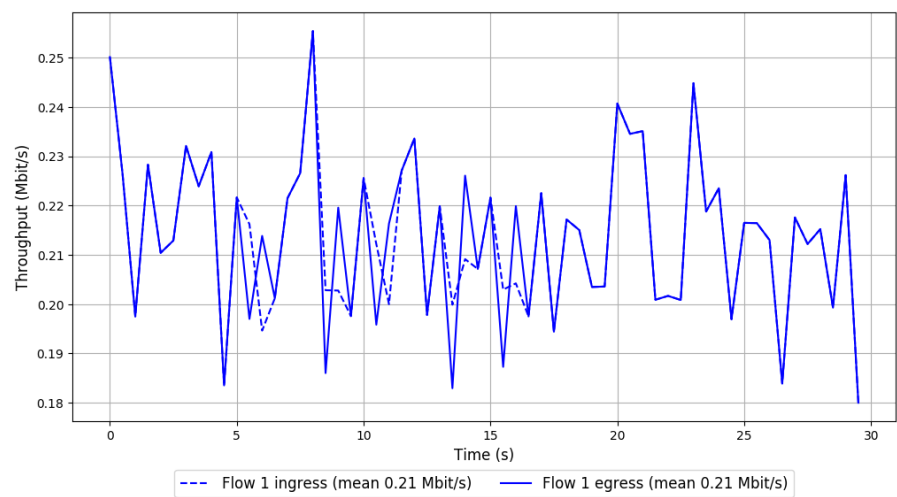


Run 4: Statistics of SCReAM

Start at: 2018-03-13 05:33:12
End at: 2018-03-13 05:33:42
Local clock offset: 0.007 ms
Remote clock offset: -4.282 ms

Below is generated by plot.py at 2018-03-13 08:31:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 14.561 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 14.561 ms
Loss rate: 0.00%

Run 4: Report of SReAM — Data Link

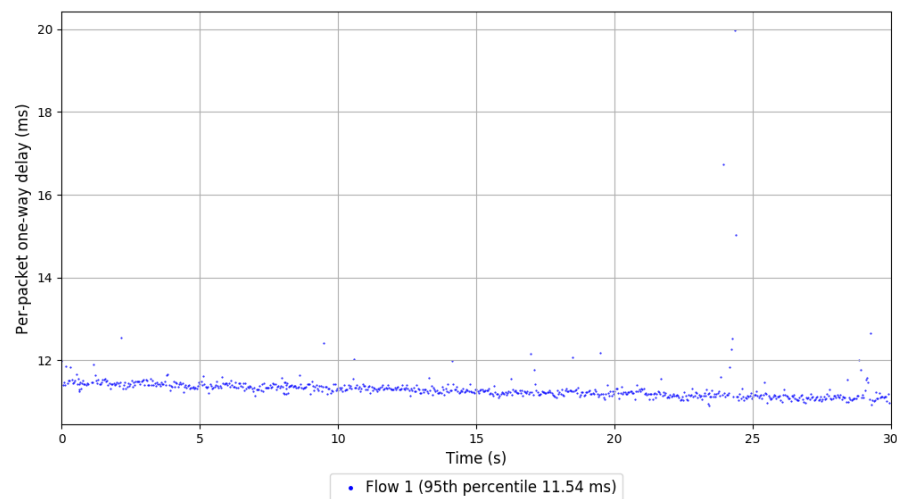
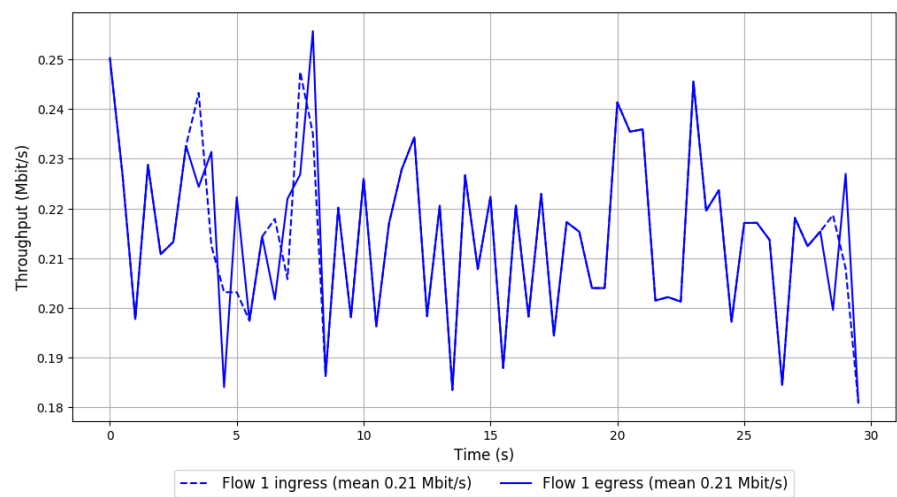


Run 5: Statistics of SCReAM

Start at: 2018-03-13 05:54:04
End at: 2018-03-13 05:54:34
Local clock offset: 1.022 ms
Remote clock offset: -8.444 ms

Below is generated by plot.py at 2018-03-13 08:31:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 11.539 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 11.539 ms
Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-03-13 06:15:09

End at: 2018-03-13 06:15:39

Local clock offset: 2.782 ms

Remote clock offset: -0.96 ms

Below is generated by plot.py at 2018-03-13 08:31:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 13.820 ms

Loss rate: 0.00%

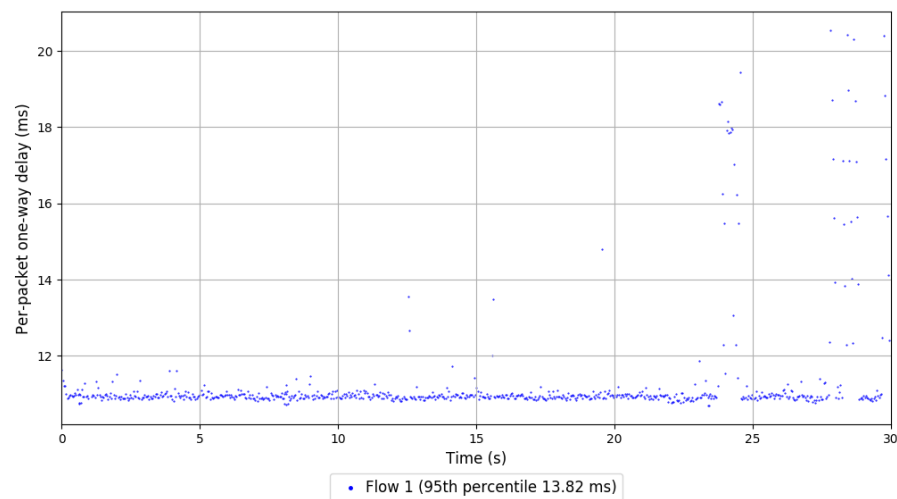
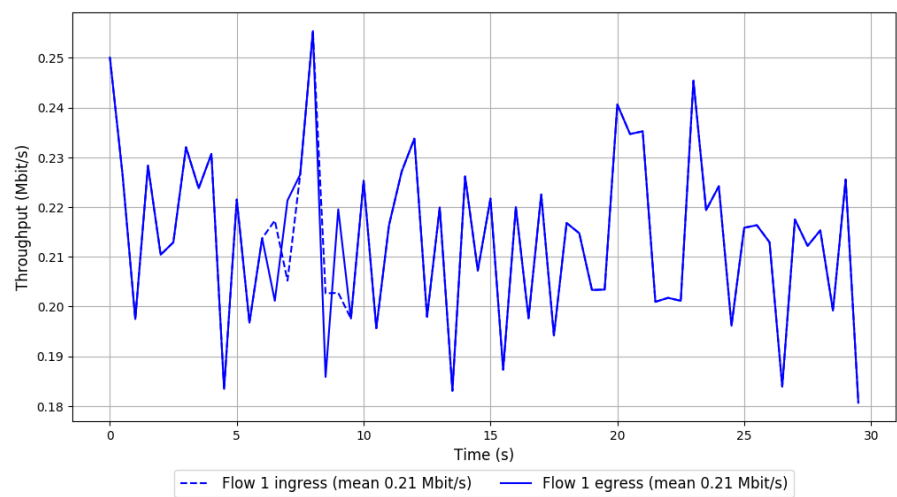
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 13.820 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2018-03-13 06:36:16

End at: 2018-03-13 06:36:46

Local clock offset: 5.936 ms

Remote clock offset: 0.134 ms

Below is generated by plot.py at 2018-03-13 08:31:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 9.403 ms

Loss rate: 0.00%

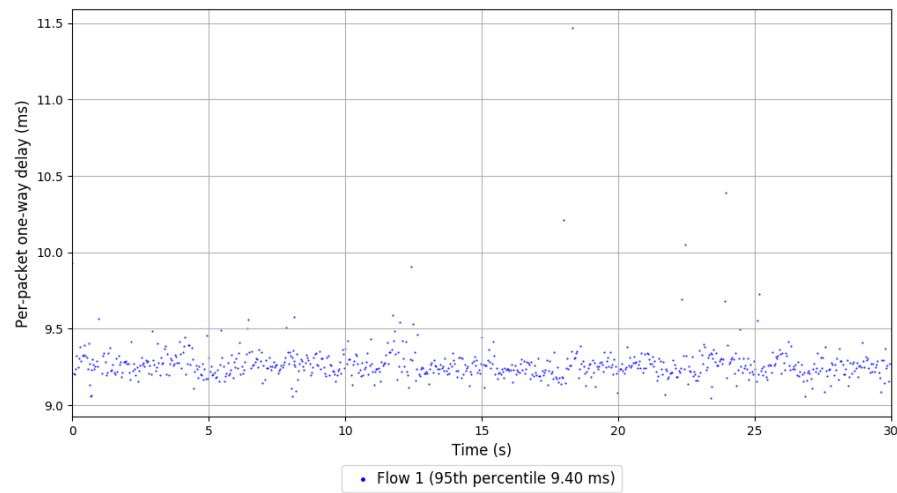
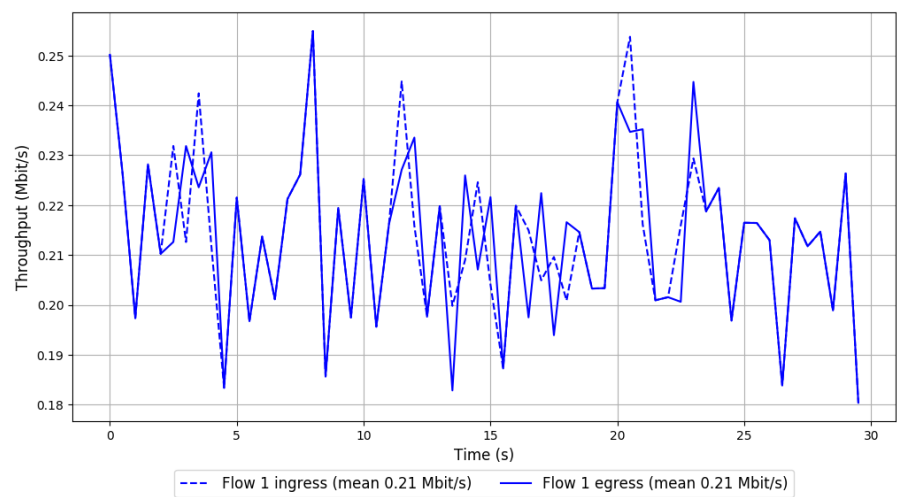
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 9.403 ms

Loss rate: 0.00%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-03-13 06:57:38

End at: 2018-03-13 06:58:08

Local clock offset: 3.39 ms

Remote clock offset: 1.307 ms

Below is generated by plot.py at 2018-03-13 08:31:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 12.078 ms

Loss rate: 0.00%

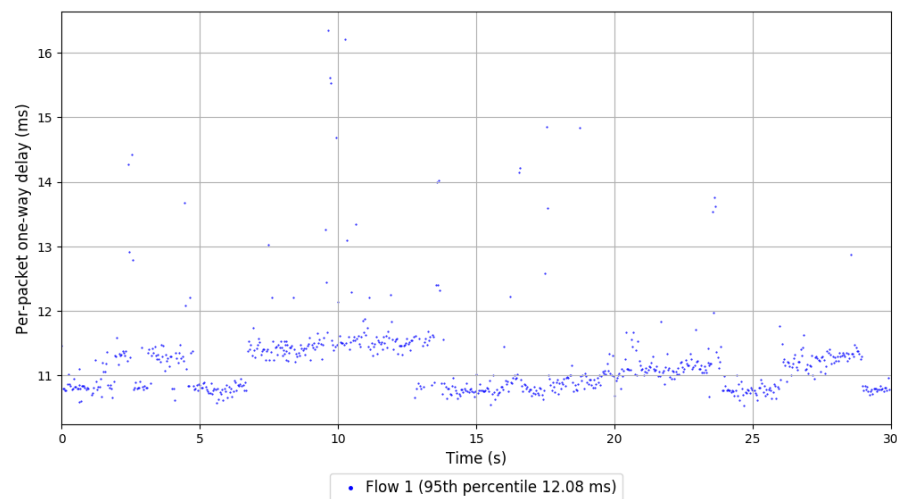
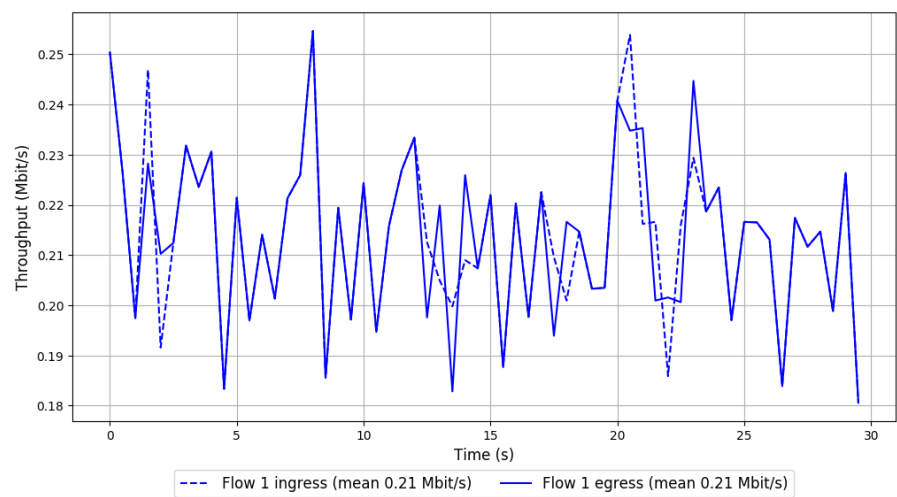
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 12.078 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link

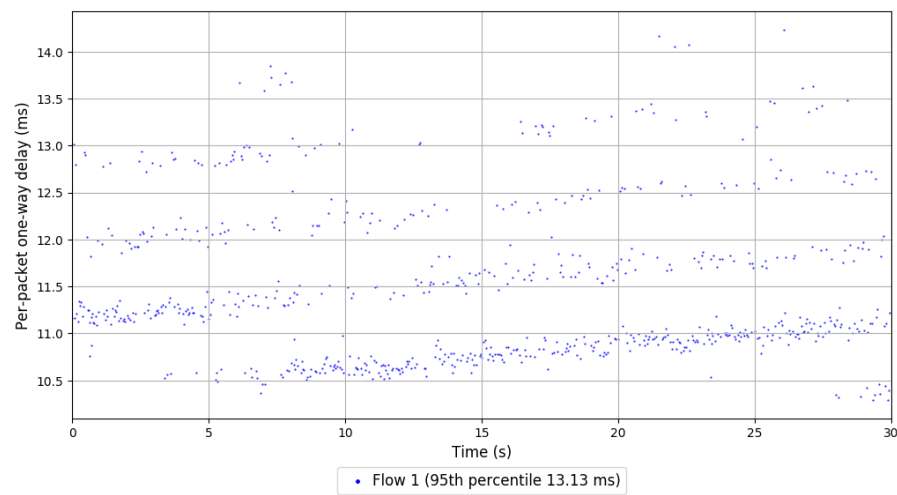
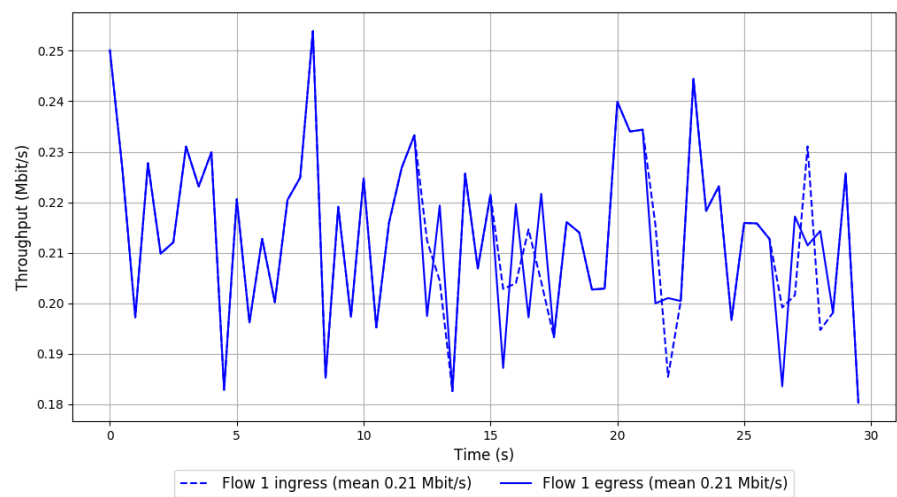


Run 9: Statistics of SCReAM

Start at: 2018-03-13 07:18:34
End at: 2018-03-13 07:19:04
Local clock offset: 2.911 ms
Remote clock offset: 14.401 ms

Below is generated by plot.py at 2018-03-13 08:31:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 13.130 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 13.130 ms
Loss rate: 0.00%

Run 9: Report of SReAM — Data Link

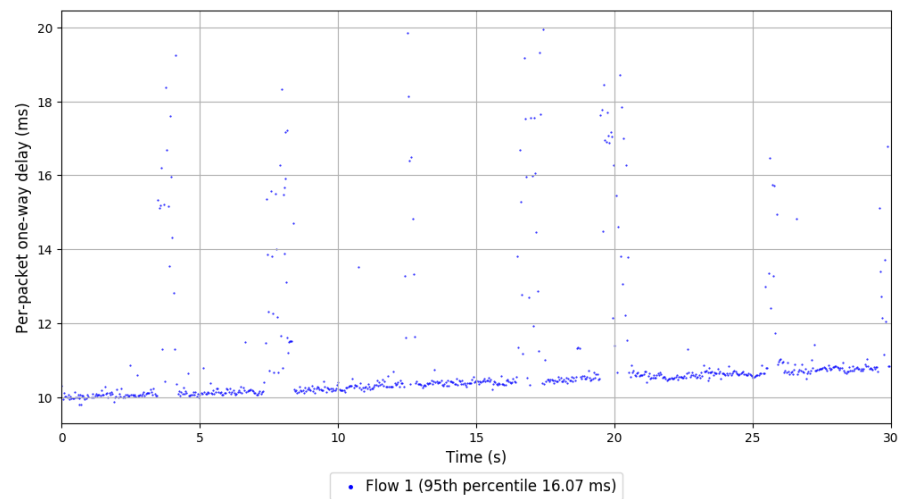
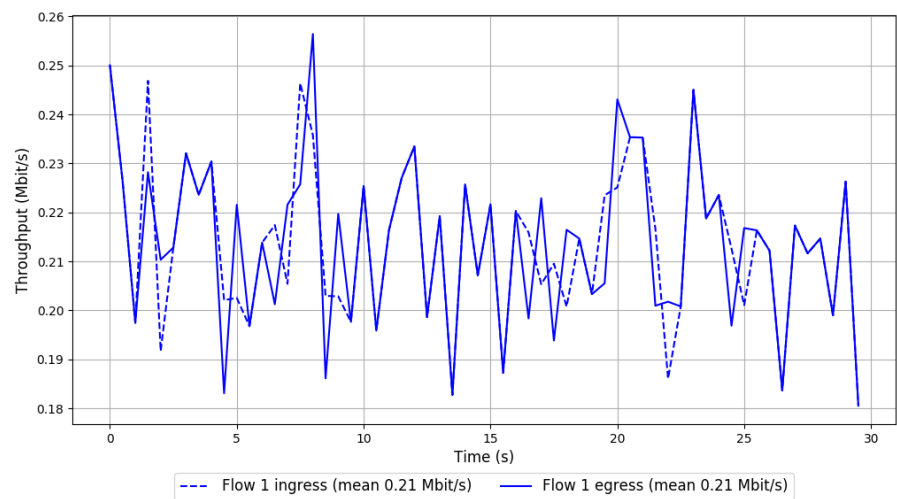


Run 10: Statistics of SReAM

Start at: 2018-03-13 07:39:17
End at: 2018-03-13 07:39:47
Local clock offset: 2.759 ms
Remote clock offset: 12.359 ms

Below is generated by plot.py at 2018-03-13 08:31:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 16.065 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 16.065 ms
Loss rate: 0.00%

Run 10: Report of SReAM — Data Link



Run 1: Statistics of WebRTC media

Start at: 2018-03-13 04:26:21

End at: 2018-03-13 04:26:51

Local clock offset: 4.671 ms

Remote clock offset: 0.668 ms

Below is generated by plot.py at 2018-03-13 08:31:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 11.866 ms

Loss rate: 0.00%

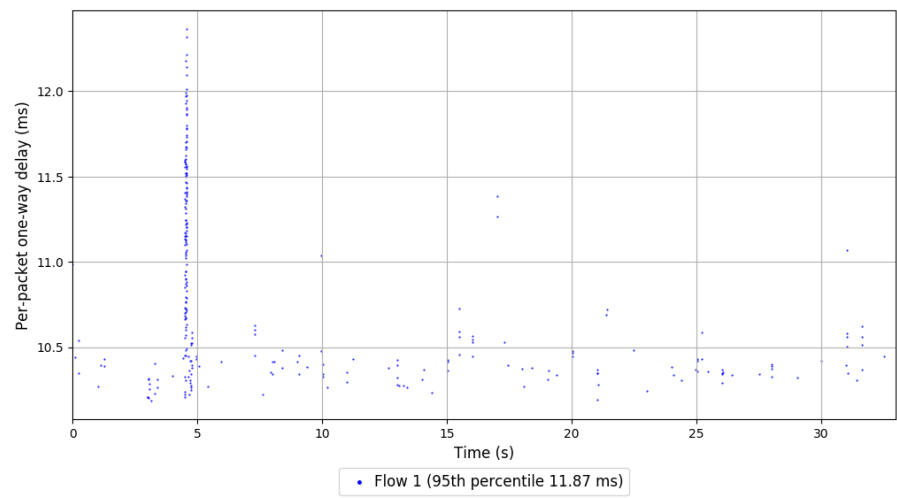
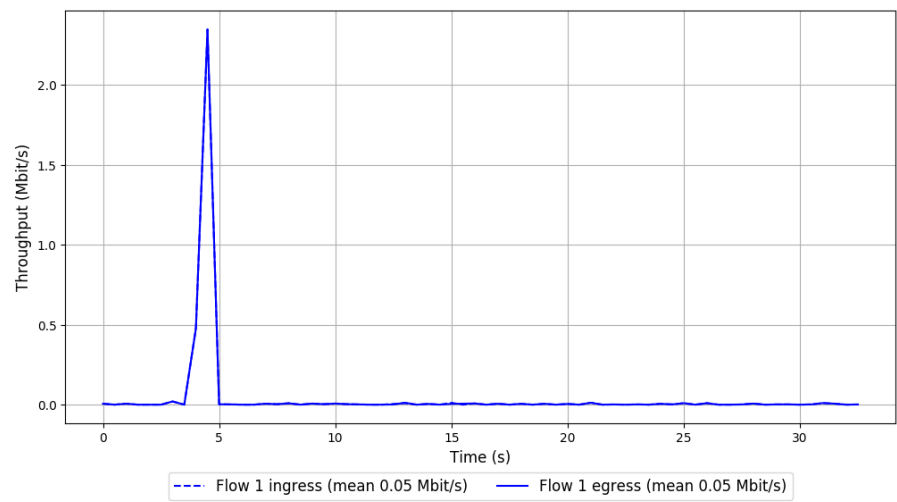
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 11.866 ms

Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-03-13 04:47:24

End at: 2018-03-13 04:47:54

Local clock offset: 3.522 ms

Remote clock offset: 1.517 ms

Below is generated by plot.py at 2018-03-13 08:31:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.34 Mbit/s

95th percentile per-packet one-way delay: 12.456 ms

Loss rate: 0.00%

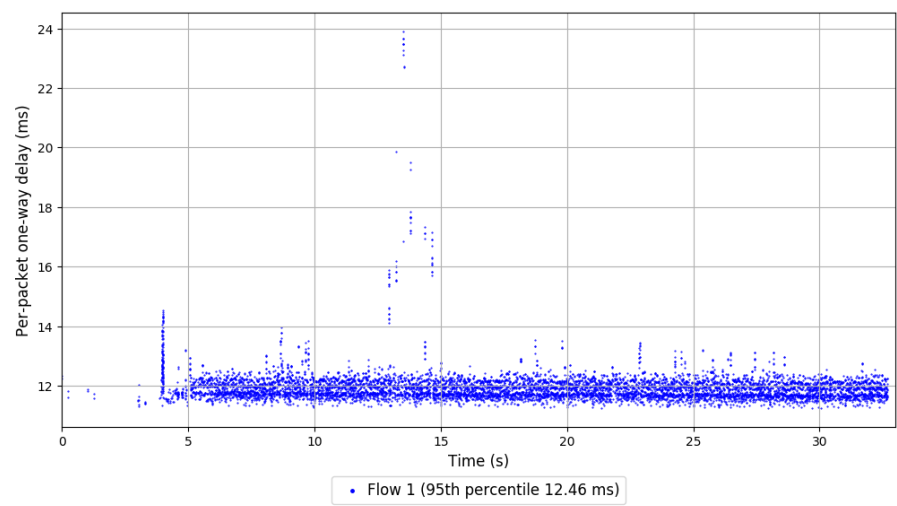
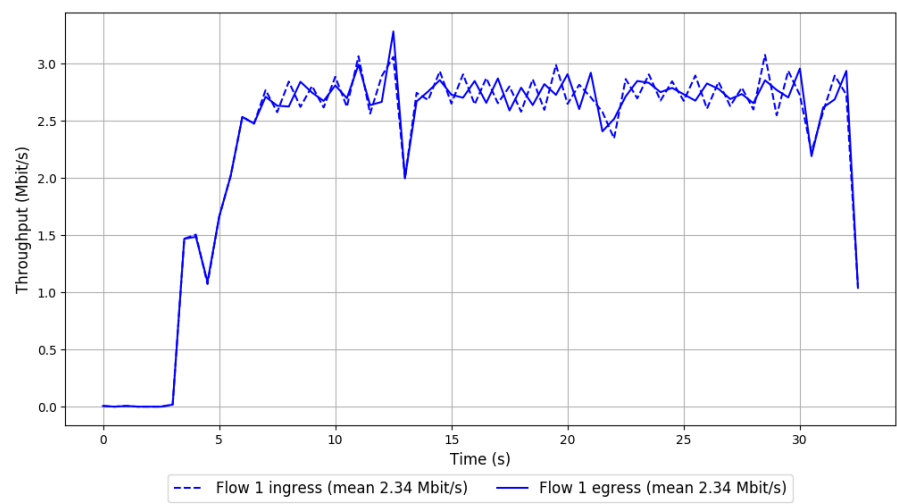
-- Flow 1:

Average throughput: 2.34 Mbit/s

95th percentile per-packet one-way delay: 12.456 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-03-13 05:08:45

End at: 2018-03-13 05:09:15

Local clock offset: 4.205 ms

Remote clock offset: 2.533 ms

Below is generated by plot.py at 2018-03-13 08:31:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.34 Mbit/s

95th percentile per-packet one-way delay: 10.538 ms

Loss rate: 0.00%

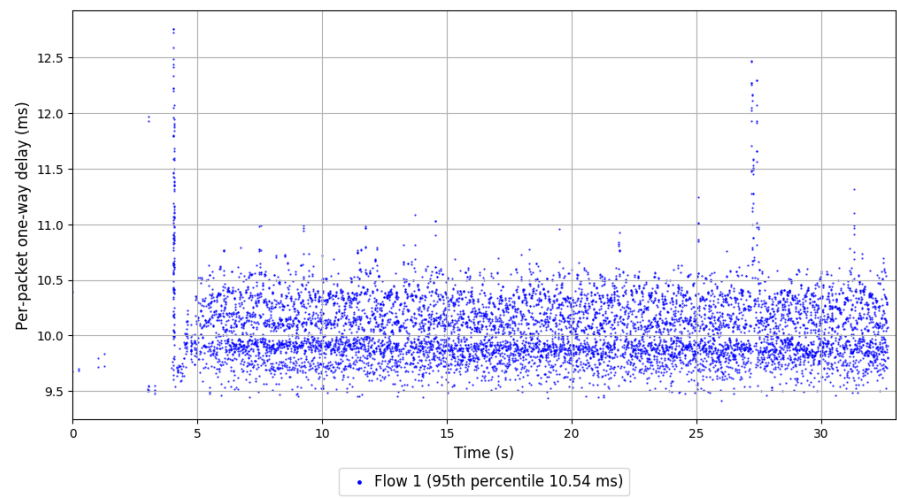
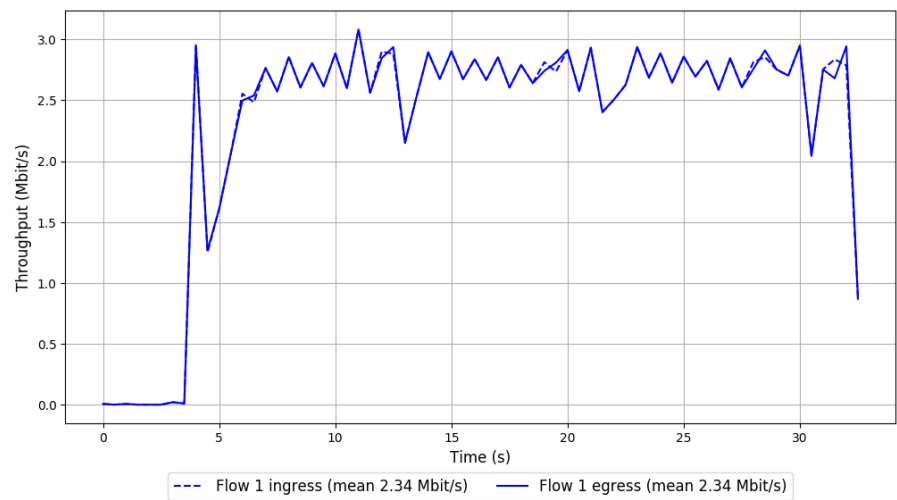
-- Flow 1:

Average throughput: 2.34 Mbit/s

95th percentile per-packet one-way delay: 10.538 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link

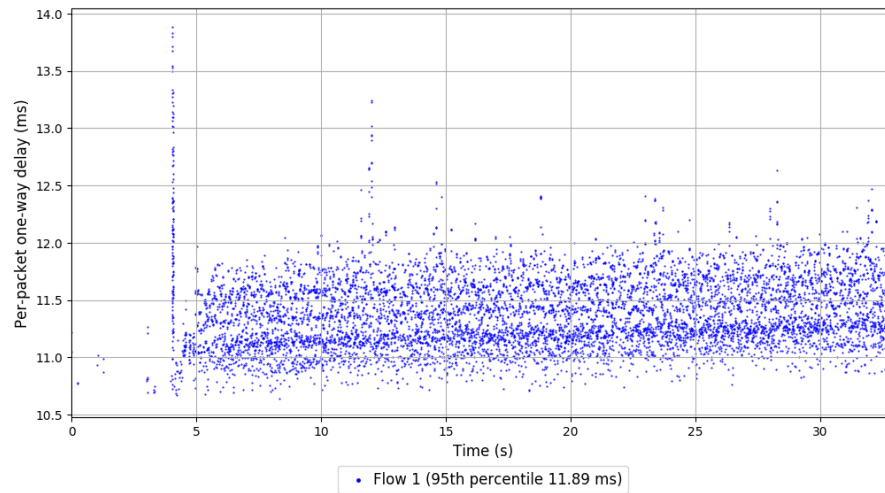
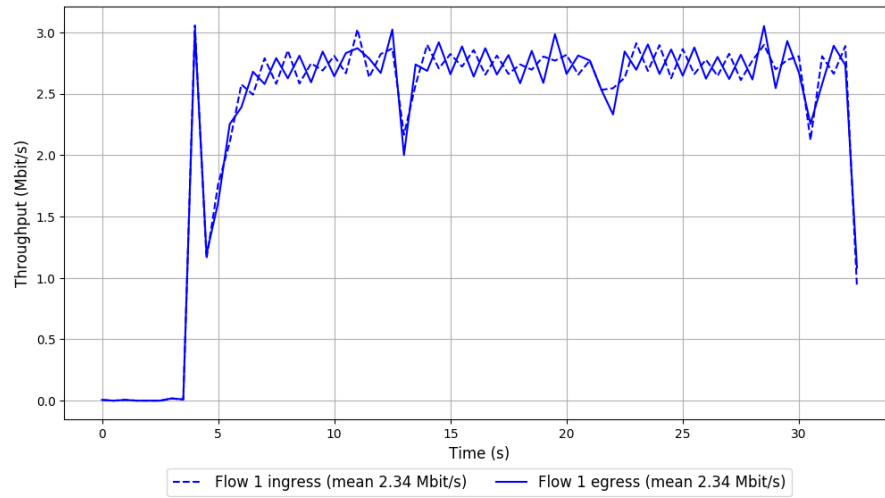


Run 4: Statistics of WebRTC media

Start at: 2018-03-13 05:29:49
End at: 2018-03-13 05:30:19
Local clock offset: 1.959 ms
Remote clock offset: -4.377 ms

Below is generated by plot.py at 2018-03-13 08:31:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.34 Mbit/s
95th percentile per-packet one-way delay: 11.887 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.34 Mbit/s
95th percentile per-packet one-way delay: 11.887 ms
Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link

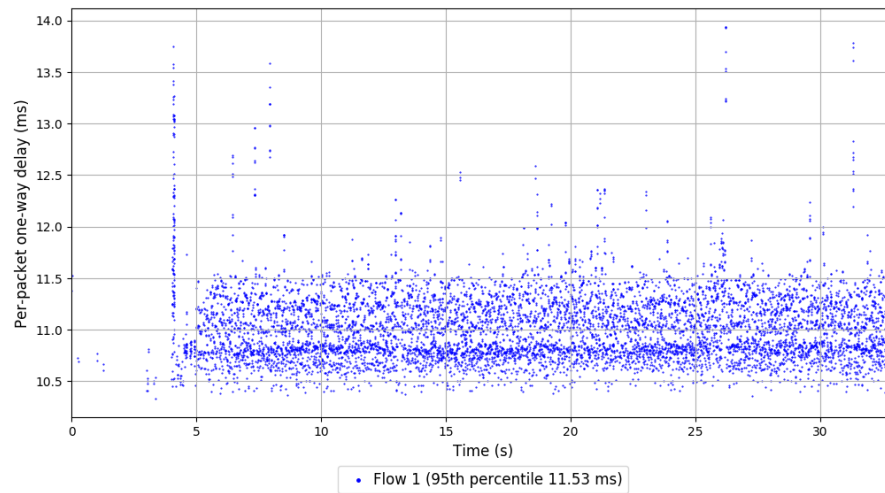
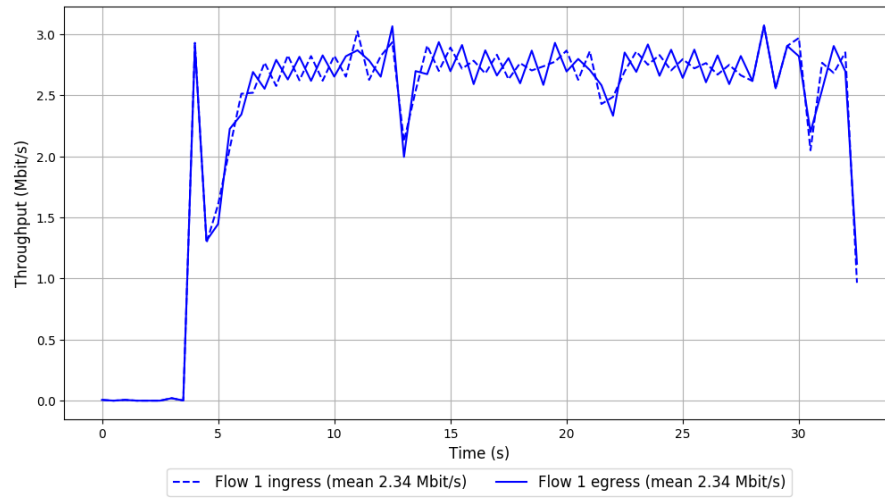


Run 5: Statistics of WebRTC media

Start at: 2018-03-13 05:50:40
End at: 2018-03-13 05:51:10
Local clock offset: 3.511 ms
Remote clock offset: -7.098 ms

Below is generated by plot.py at 2018-03-13 08:31:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.34 Mbit/s
95th percentile per-packet one-way delay: 11.530 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.34 Mbit/s
95th percentile per-packet one-way delay: 11.530 ms
Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

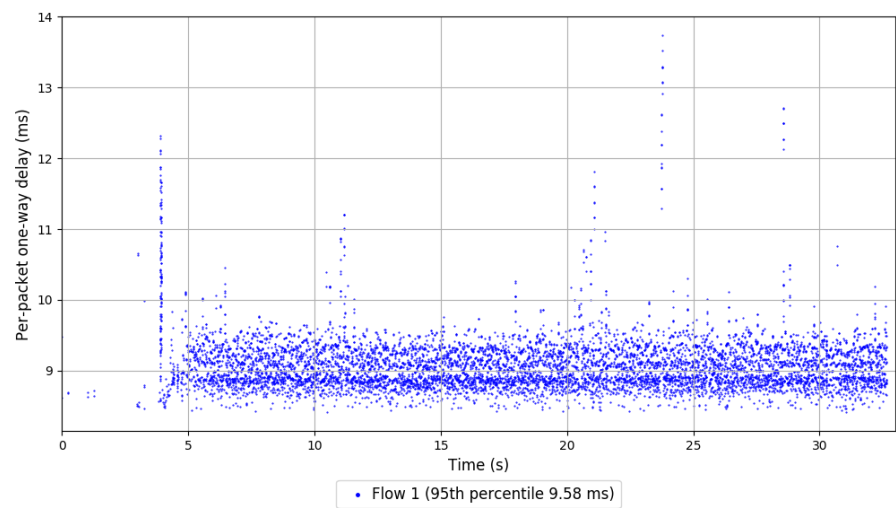
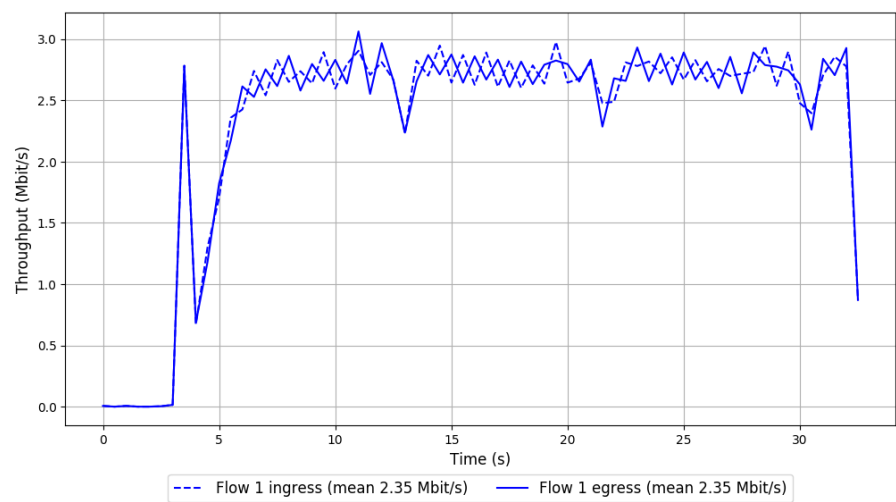


Run 6: Statistics of WebRTC media

Start at: 2018-03-13 06:11:40
End at: 2018-03-13 06:12:10
Local clock offset: 4.586 ms
Remote clock offset: -1.399 ms

Below is generated by plot.py at 2018-03-13 08:31:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.35 Mbit/s
95th percentile per-packet one-way delay: 9.576 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.35 Mbit/s
95th percentile per-packet one-way delay: 9.576 ms
Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-03-13 06:32:47

End at: 2018-03-13 06:33:17

Local clock offset: 6.479 ms

Remote clock offset: 0.379 ms

Below is generated by plot.py at 2018-03-13 08:31:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.34 Mbit/s

95th percentile per-packet one-way delay: 14.534 ms

Loss rate: 0.00%

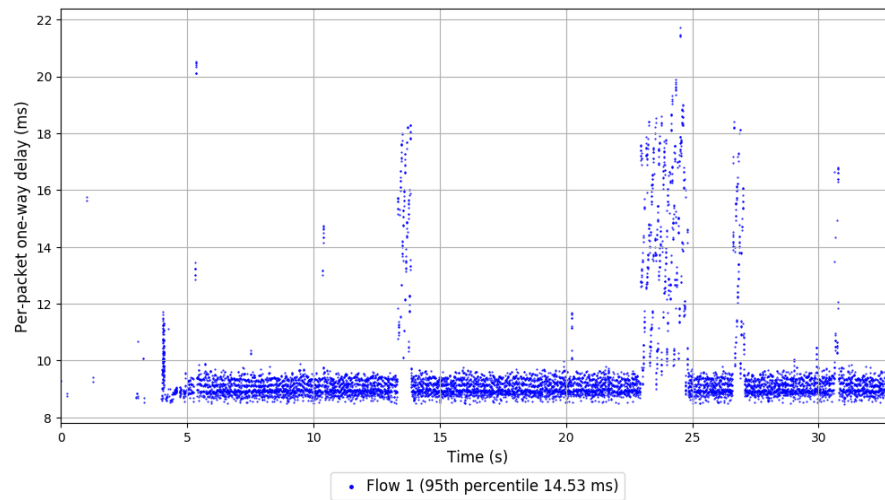
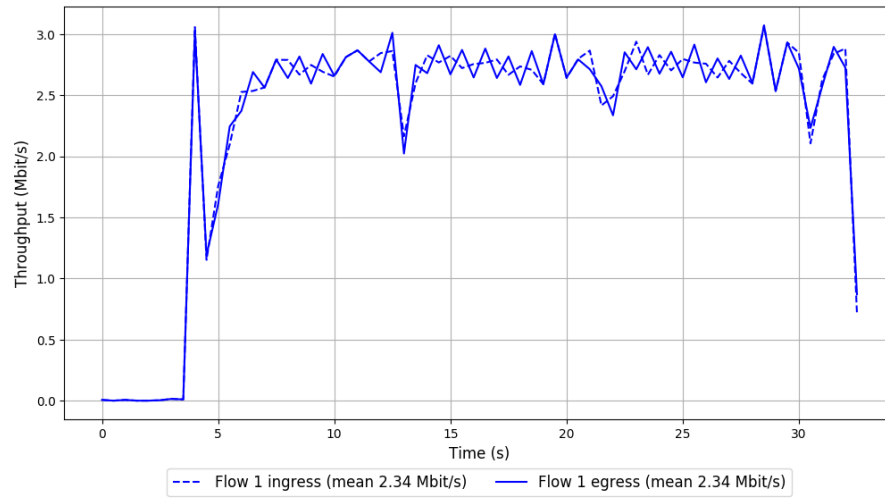
-- Flow 1:

Average throughput: 2.34 Mbit/s

95th percentile per-packet one-way delay: 14.534 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-03-13 06:54:14

End at: 2018-03-13 06:54:44

Local clock offset: 3.087 ms

Remote clock offset: 0.884 ms

Below is generated by plot.py at 2018-03-13 08:31:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.35 Mbit/s

95th percentile per-packet one-way delay: 12.746 ms

Loss rate: 0.00%

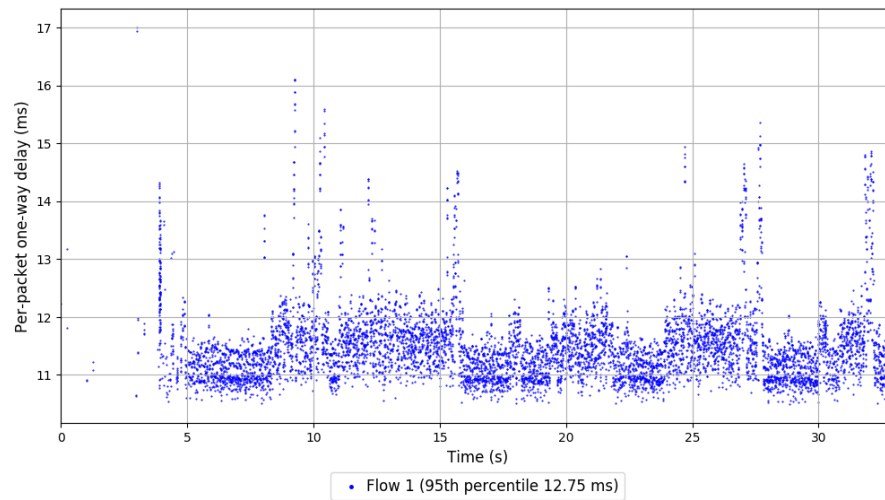
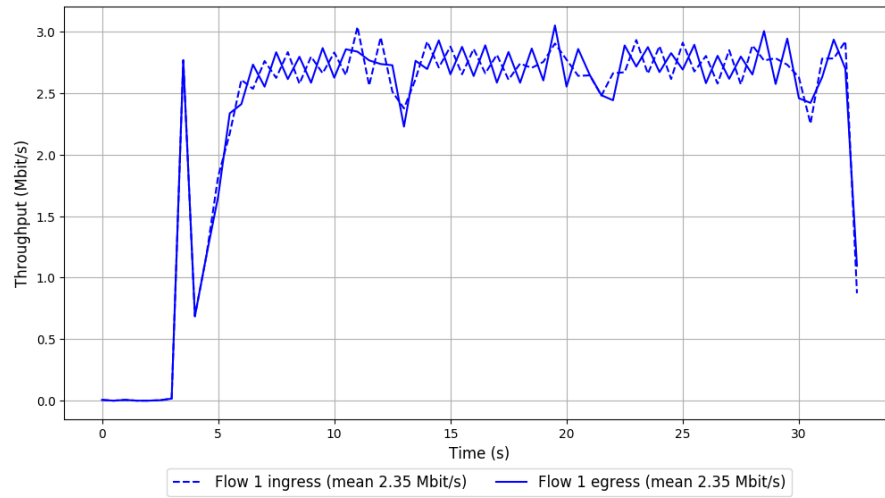
-- Flow 1:

Average throughput: 2.35 Mbit/s

95th percentile per-packet one-way delay: 12.746 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link

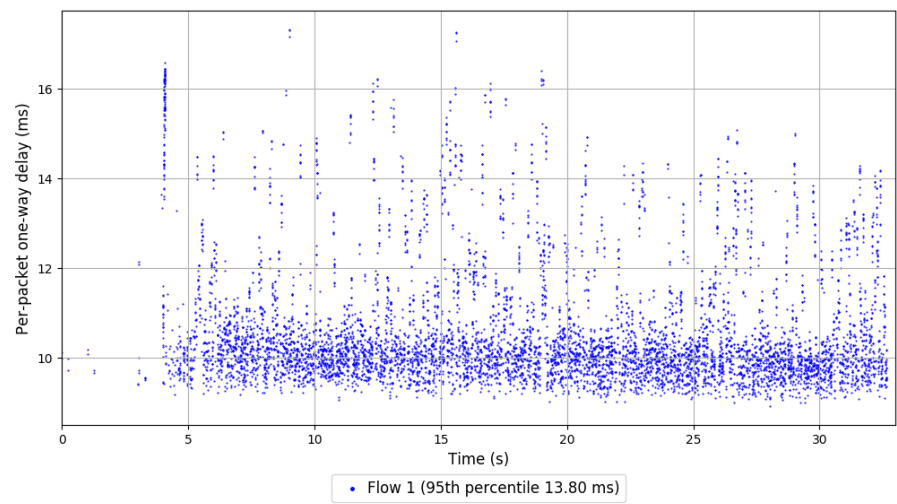
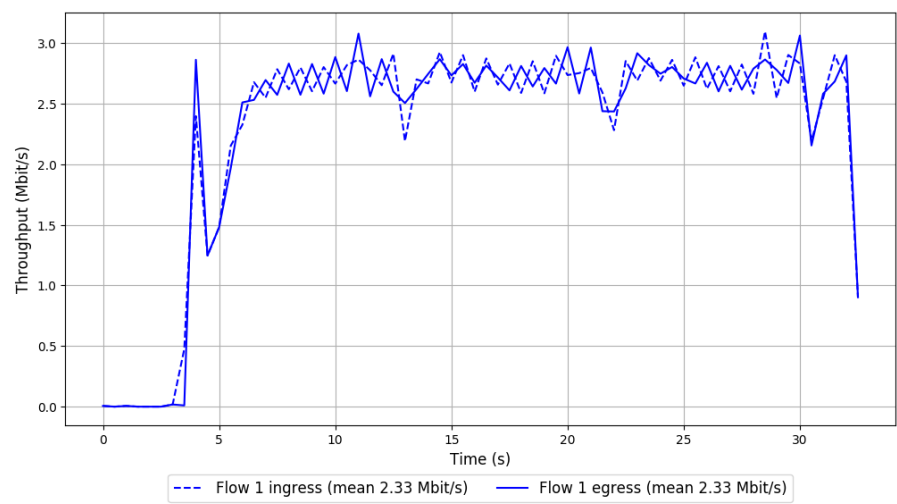


Run 9: Statistics of WebRTC media

Start at: 2018-03-13 07:15:11
End at: 2018-03-13 07:15:41
Local clock offset: 3.829 ms
Remote clock offset: 12.392 ms

Below is generated by plot.py at 2018-03-13 08:31:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.33 Mbit/s
95th percentile per-packet one-way delay: 13.796 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.33 Mbit/s
95th percentile per-packet one-way delay: 13.796 ms
Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-03-13 07:35:54

End at: 2018-03-13 07:36:24

Local clock offset: 1.552 ms

Remote clock offset: 19.654 ms

Below is generated by plot.py at 2018-03-13 08:31:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.35 Mbit/s

95th percentile per-packet one-way delay: 18.265 ms

Loss rate: 0.00%

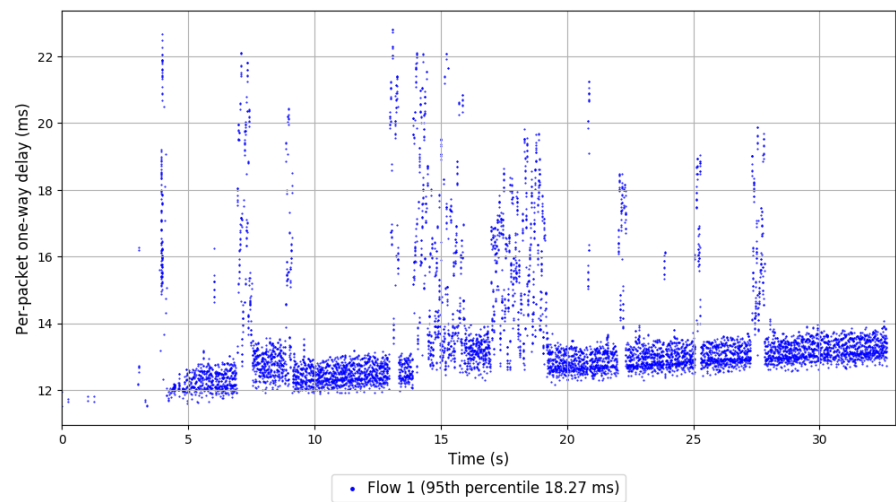
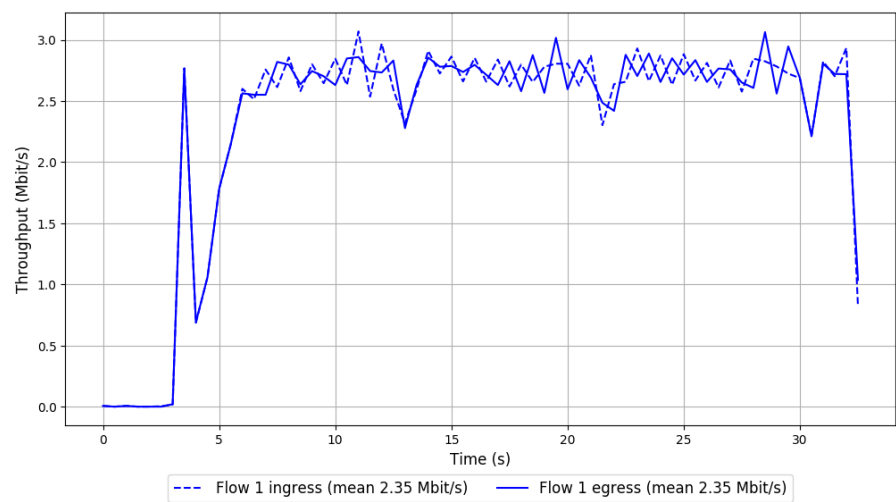
-- Flow 1:

Average throughput: 2.35 Mbit/s

95th percentile per-packet one-way delay: 18.265 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

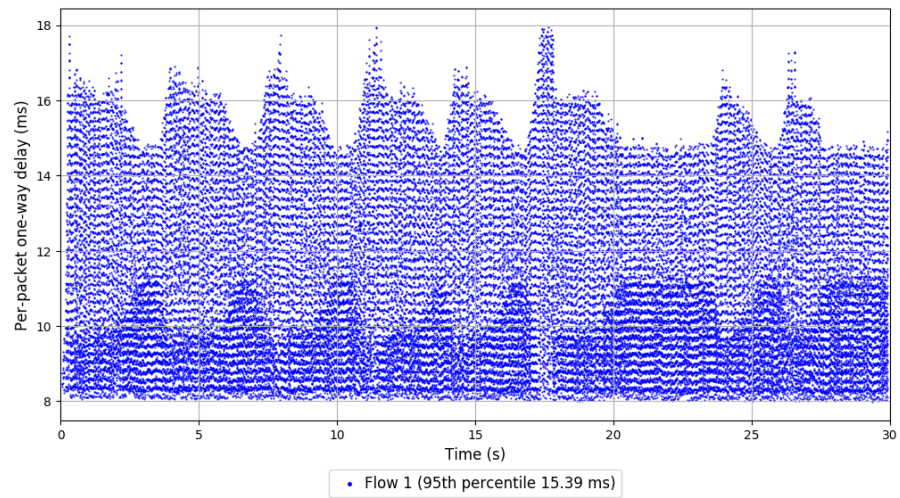
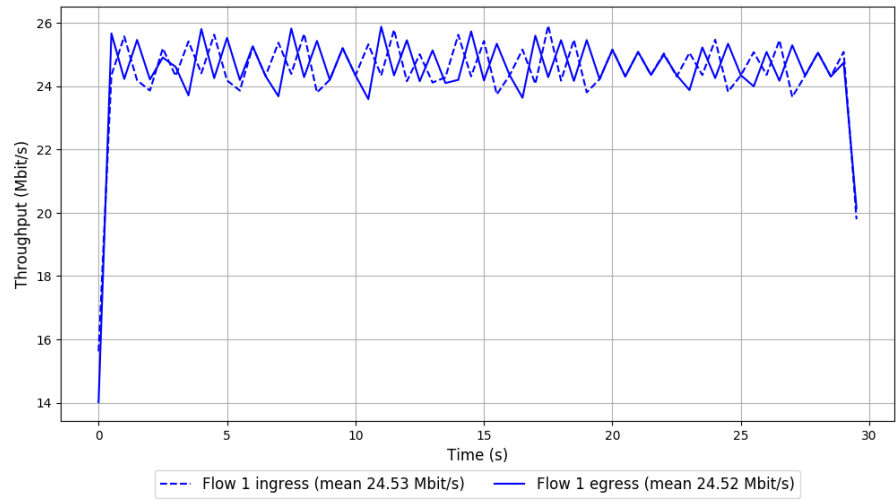


Run 1: Statistics of Sprout

Start at: 2018-03-13 04:21:24
End at: 2018-03-13 04:21:54
Local clock offset: 6.871 ms
Remote clock offset: -0.108 ms

Below is generated by plot.py at 2018-03-13 08:31:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 24.52 Mbit/s
95th percentile per-packet one-way delay: 15.393 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 24.52 Mbit/s
95th percentile per-packet one-way delay: 15.393 ms
Loss rate: 0.00%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-03-13 04:42:45

End at: 2018-03-13 04:43:15

Local clock offset: 4.758 ms

Remote clock offset: 0.15 ms

Below is generated by plot.py at 2018-03-13 08:31:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 24.08 Mbit/s

95th percentile per-packet one-way delay: 14.462 ms

Loss rate: 0.00%

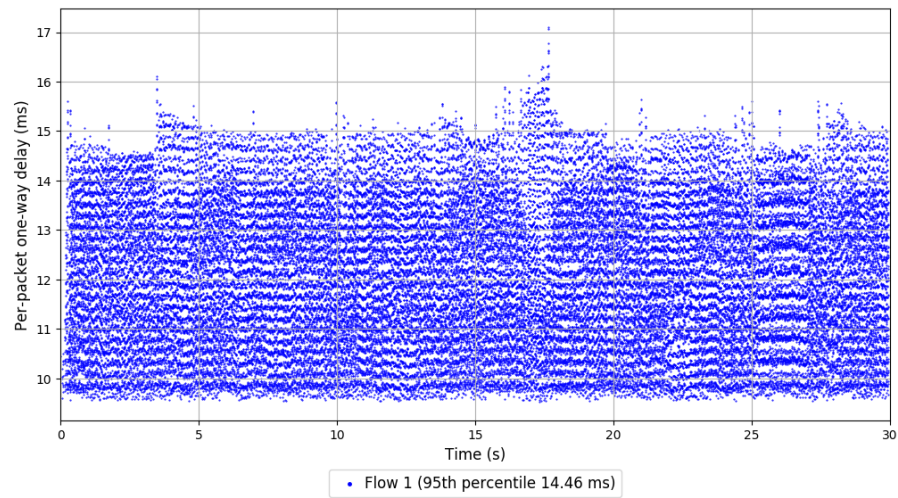
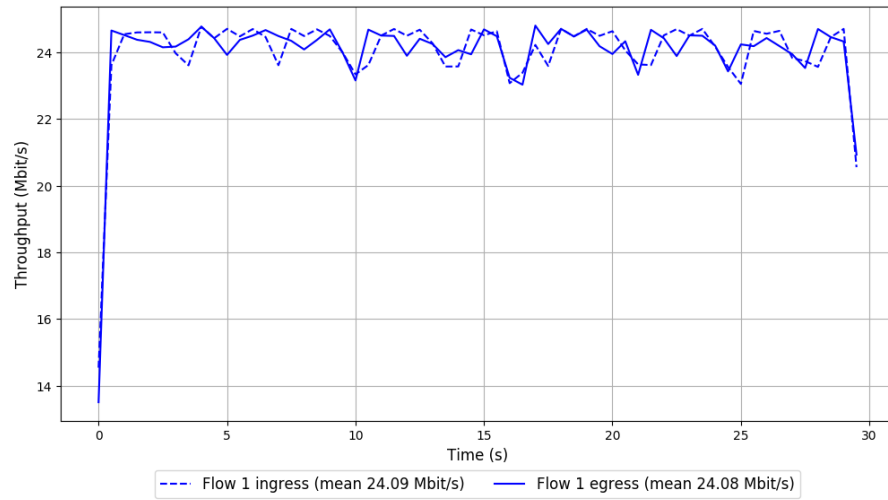
-- Flow 1:

Average throughput: 24.08 Mbit/s

95th percentile per-packet one-way delay: 14.462 ms

Loss rate: 0.00%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-03-13 05:04:05

End at: 2018-03-13 05:04:35

Local clock offset: 1.885 ms

Remote clock offset: 2.304 ms

Below is generated by plot.py at 2018-03-13 08:31:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 24.65 Mbit/s

95th percentile per-packet one-way delay: 19.968 ms

Loss rate: 0.00%

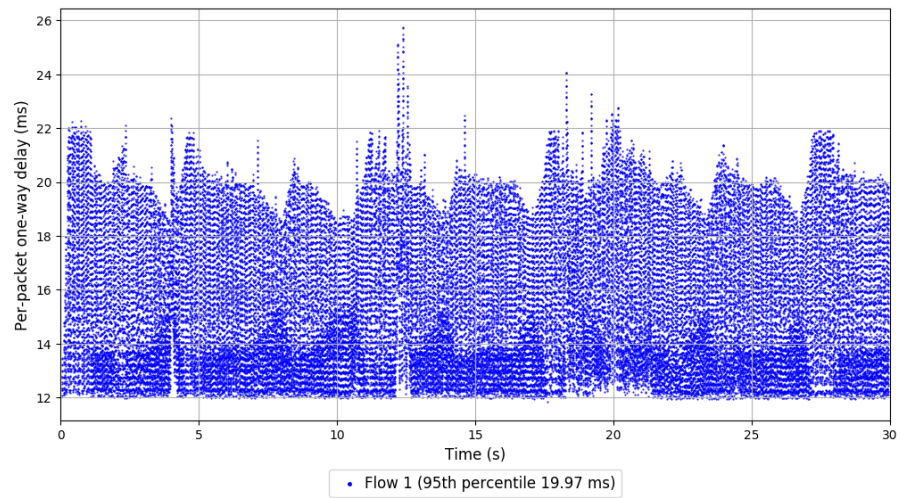
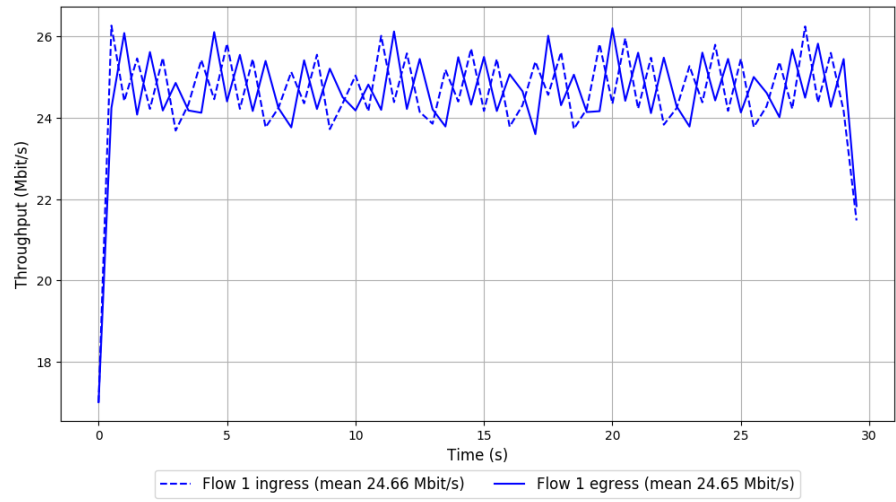
-- Flow 1:

Average throughput: 24.65 Mbit/s

95th percentile per-packet one-way delay: 19.968 ms

Loss rate: 0.00%

Run 3: Report of Sprout — Data Link

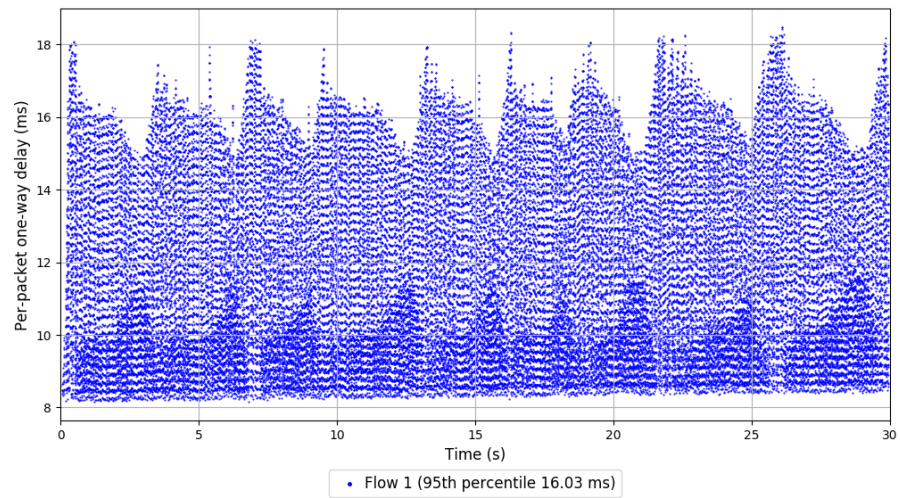
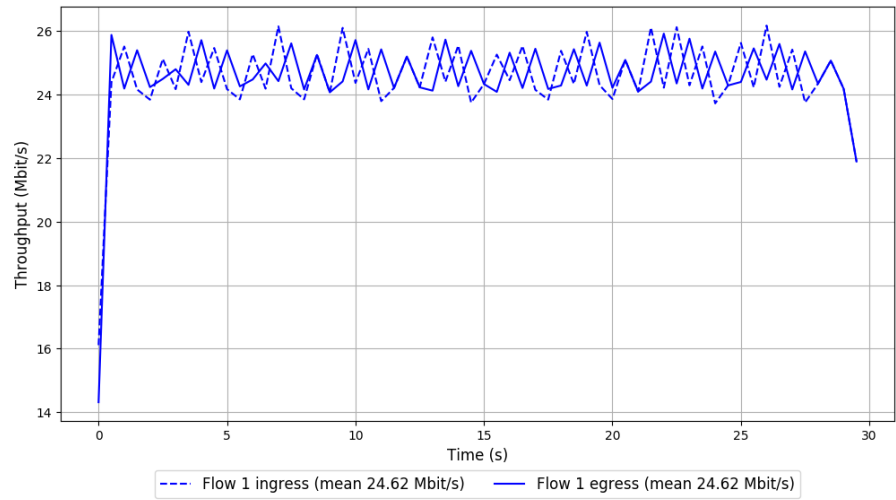


Run 4: Statistics of Sprout

Start at: 2018-03-13 05:25:13
End at: 2018-03-13 05:25:43
Local clock offset: 4.046 ms
Remote clock offset: -3.009 ms

Below is generated by plot.py at 2018-03-13 08:31:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 24.62 Mbit/s
95th percentile per-packet one-way delay: 16.029 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 24.62 Mbit/s
95th percentile per-packet one-way delay: 16.029 ms
Loss rate: 0.00%

Run 4: Report of Sprout — Data Link

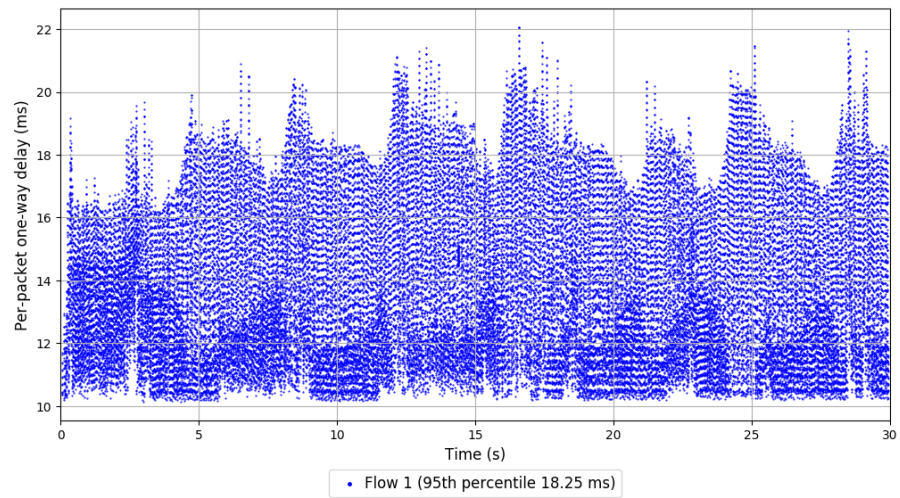
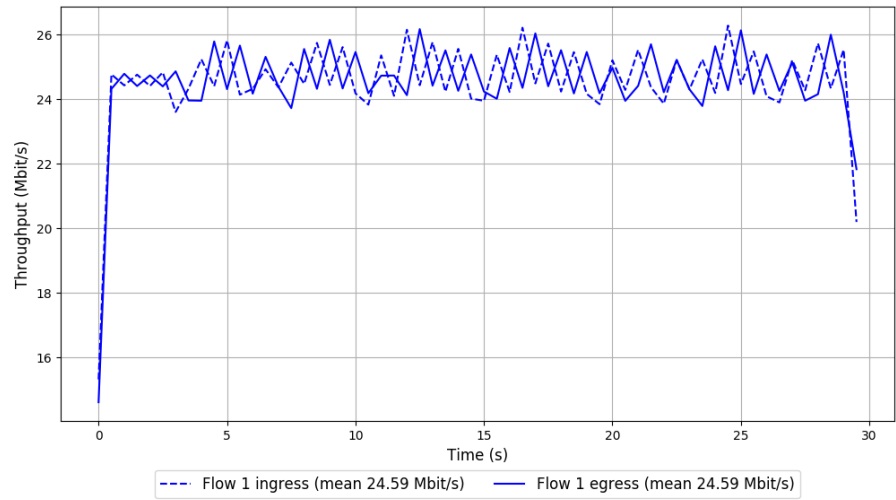


Run 5: Statistics of Sprout

Start at: 2018-03-13 05:46:03
End at: 2018-03-13 05:46:33
Local clock offset: 2.377 ms
Remote clock offset: -8.182 ms

Below is generated by plot.py at 2018-03-13 08:31:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 24.59 Mbit/s
95th percentile per-packet one-way delay: 18.252 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 24.59 Mbit/s
95th percentile per-packet one-way delay: 18.252 ms
Loss rate: 0.00%

Run 5: Report of Sprout — Data Link

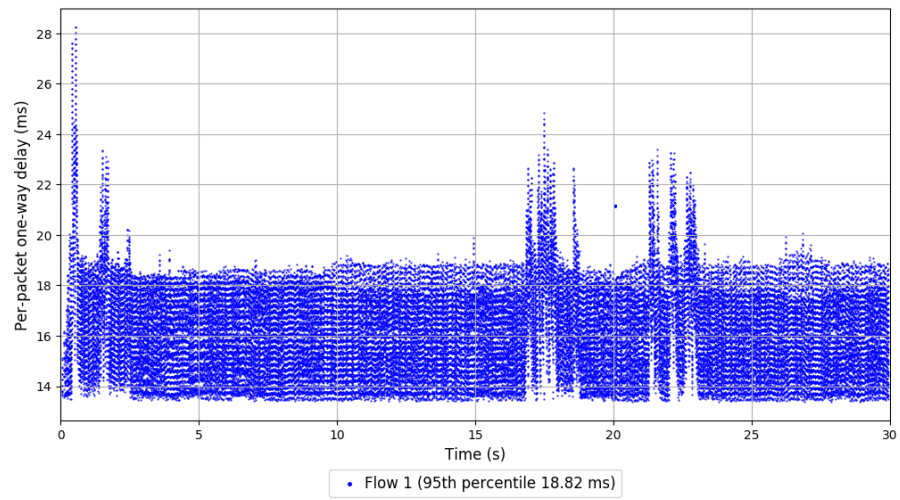
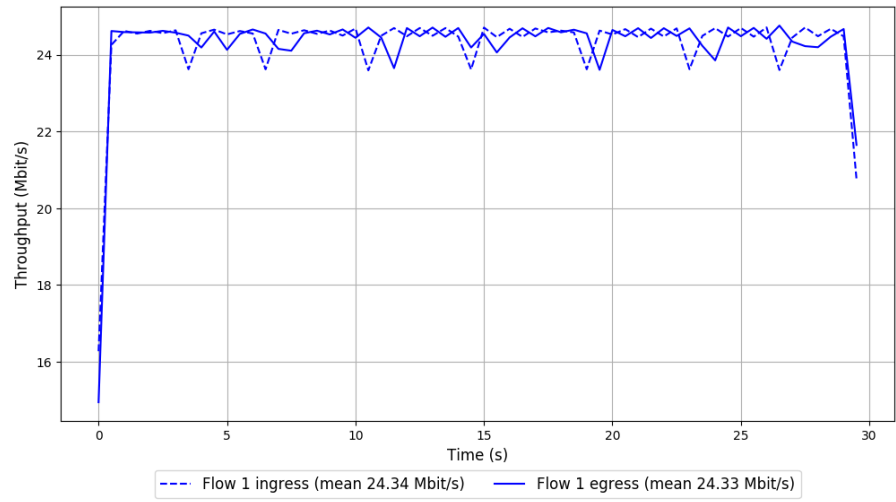


Run 6: Statistics of Sprout

Start at: 2018-03-13 06:07:02
End at: 2018-03-13 06:07:32
Local clock offset: -0.144 ms
Remote clock offset: -1.266 ms

Below is generated by plot.py at 2018-03-13 08:31:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 24.33 Mbit/s
95th percentile per-packet one-way delay: 18.822 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 24.33 Mbit/s
95th percentile per-packet one-way delay: 18.822 ms
Loss rate: 0.00%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-03-13 06:28:06

End at: 2018-03-13 06:28:36

Local clock offset: 3.212 ms

Remote clock offset: 0.392 ms

Below is generated by plot.py at 2018-03-13 08:31:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 24.57 Mbit/s

95th percentile per-packet one-way delay: 20.397 ms

Loss rate: 0.00%

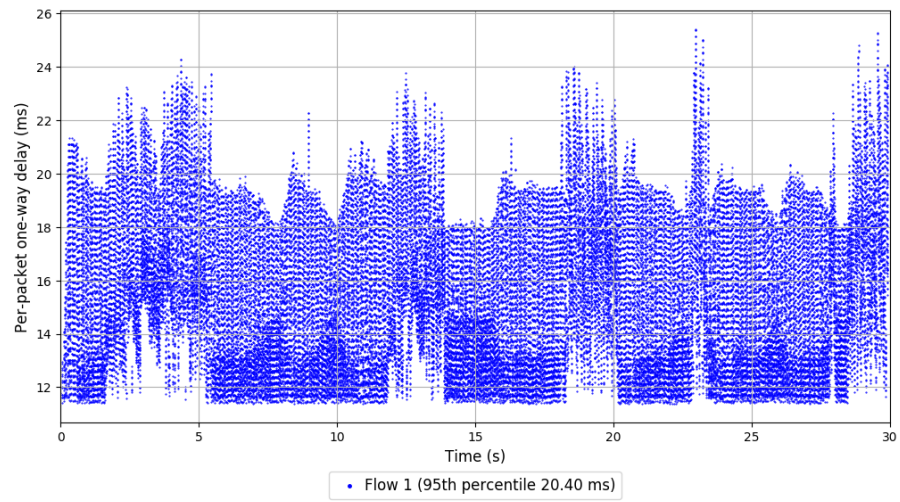
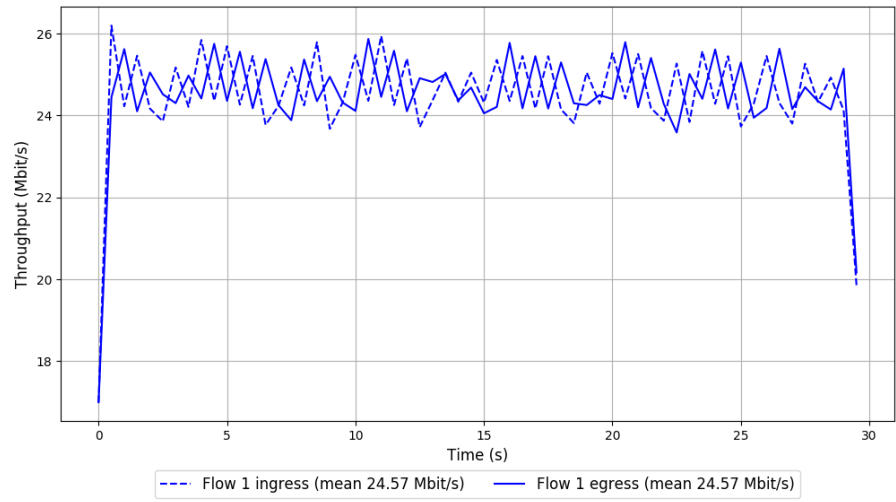
-- Flow 1:

Average throughput: 24.57 Mbit/s

95th percentile per-packet one-way delay: 20.397 ms

Loss rate: 0.00%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-03-13 06:49:29

End at: 2018-03-13 06:49:59

Local clock offset: 3.825 ms

Remote clock offset: 0.242 ms

Below is generated by plot.py at 2018-03-13 08:31:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 24.56 Mbit/s

95th percentile per-packet one-way delay: 19.118 ms

Loss rate: 0.00%

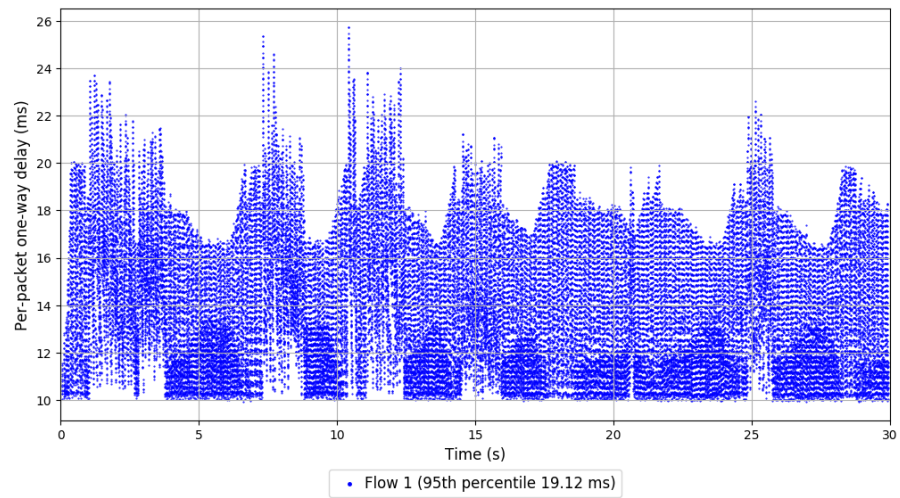
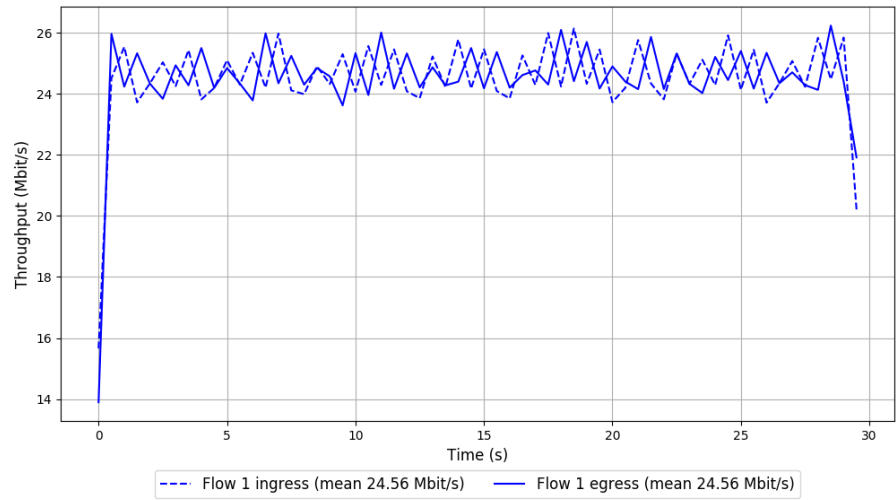
-- Flow 1:

Average throughput: 24.56 Mbit/s

95th percentile per-packet one-way delay: 19.118 ms

Loss rate: 0.00%

Run 8: Report of Sprout — Data Link

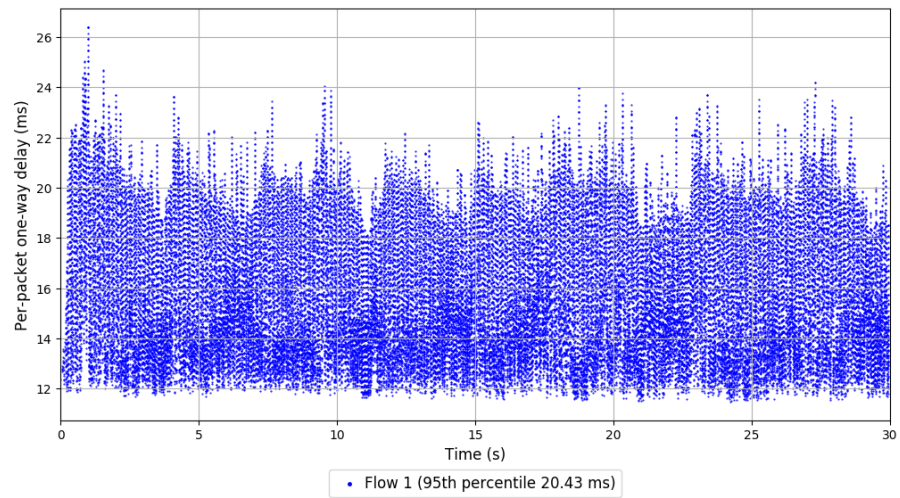
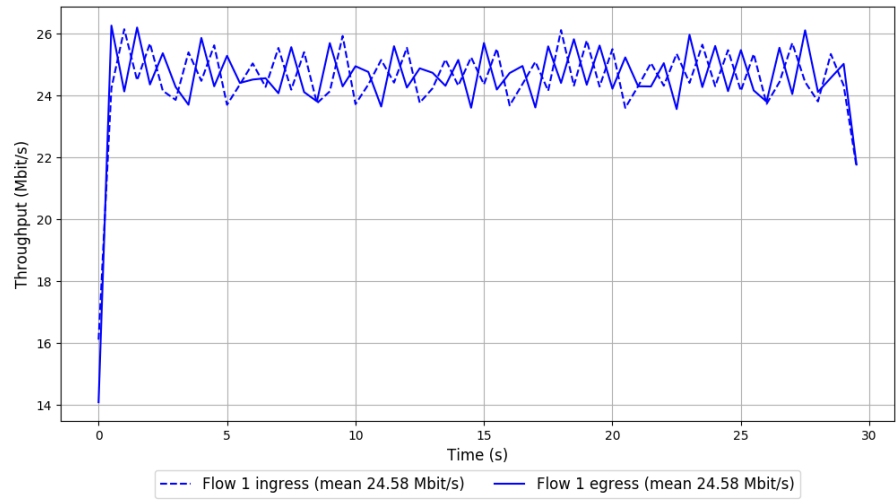


Run 9: Statistics of Sprout

Start at: 2018-03-13 07:10:36
End at: 2018-03-13 07:11:06
Local clock offset: 2.191 ms
Remote clock offset: 10.657 ms

Below is generated by plot.py at 2018-03-13 08:31:31
Datalink statistics
-- Total of 1 flow:
Average throughput: 24.58 Mbit/s
95th percentile per-packet one-way delay: 20.435 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 24.58 Mbit/s
95th percentile per-packet one-way delay: 20.435 ms
Loss rate: 0.00%

Run 9: Report of Sprout — Data Link

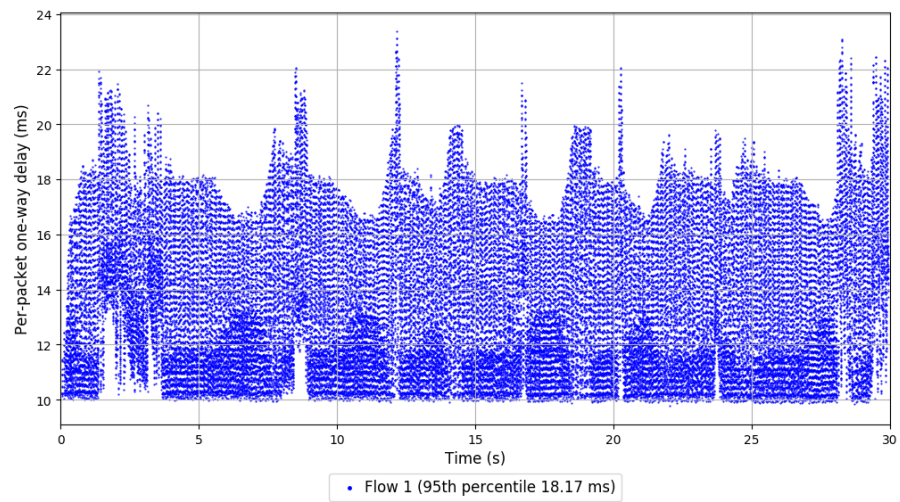
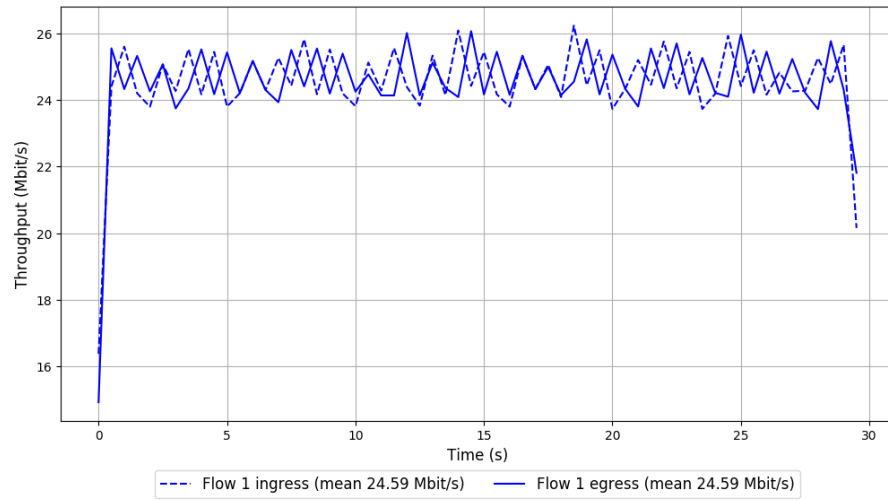


Run 10: Statistics of Sprout

Start at: 2018-03-13 07:31:21
End at: 2018-03-13 07:31:51
Local clock offset: 2.969 ms
Remote clock offset: 18.687 ms

Below is generated by plot.py at 2018-03-13 08:31:32
Datalink statistics
-- Total of 1 flow:
Average throughput: 24.59 Mbit/s
95th percentile per-packet one-way delay: 18.172 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 24.59 Mbit/s
95th percentile per-packet one-way delay: 18.172 ms
Loss rate: 0.00%

Run 10: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

Start at: 2018-03-13 04:36:47

End at: 2018-03-13 04:37:17

Local clock offset: 3.88 ms

Remote clock offset: 0.334 ms

Below is generated by plot.py at 2018-03-13 08:33:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.99 Mbit/s

95th percentile per-packet one-way delay: 16.115 ms

Loss rate: 0.00%

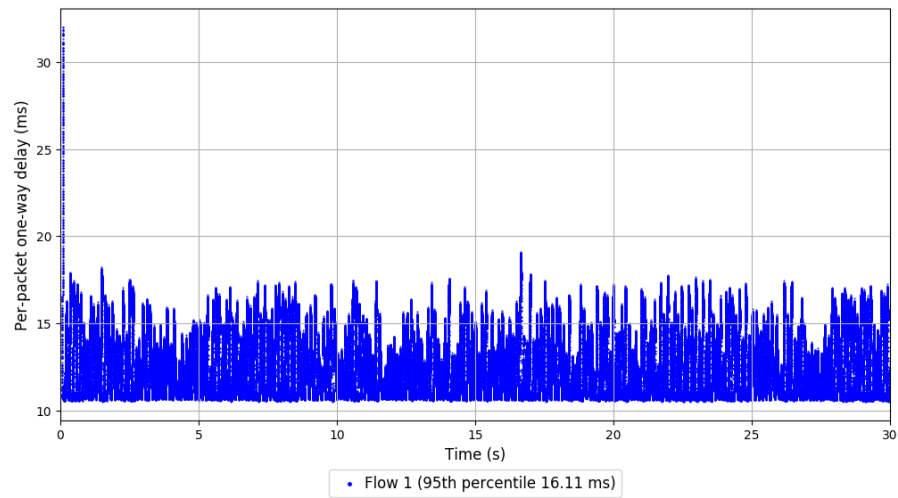
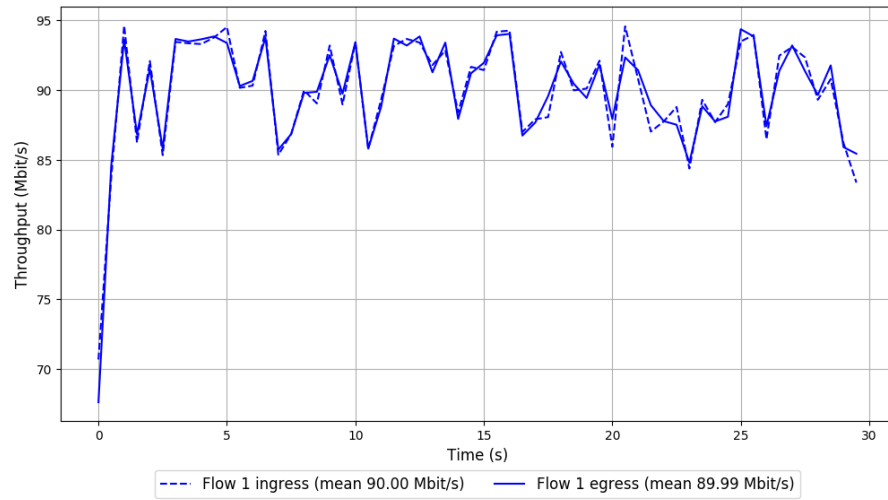
-- Flow 1:

Average throughput: 89.99 Mbit/s

95th percentile per-packet one-way delay: 16.115 ms

Loss rate: 0.00%

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



Run 2: Statistics of TaoVA-100x

Start at: 2018-03-13 04:58:01

End at: 2018-03-13 04:58:31

Local clock offset: 4.805 ms

Remote clock offset: 2.296 ms

Below is generated by plot.py at 2018-03-13 08:33:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.68 Mbit/s

95th percentile per-packet one-way delay: 14.504 ms

Loss rate: 0.00%

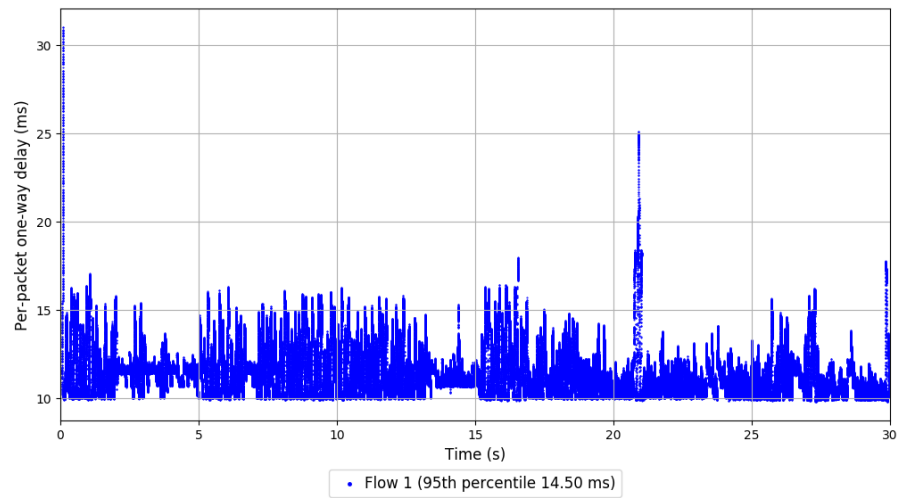
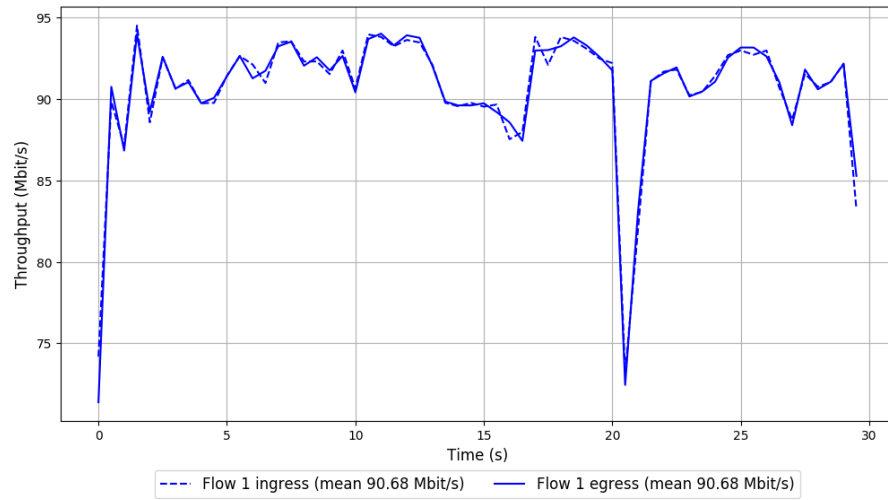
-- Flow 1:

Average throughput: 90.68 Mbit/s

95th percentile per-packet one-way delay: 14.504 ms

Loss rate: 0.00%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-03-13 05:19:14

End at: 2018-03-13 05:19:44

Local clock offset: 3.769 ms

Remote clock offset: 2.53 ms

Below is generated by plot.py at 2018-03-13 08:33:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.52 Mbit/s

95th percentile per-packet one-way delay: 12.620 ms

Loss rate: 0.00%

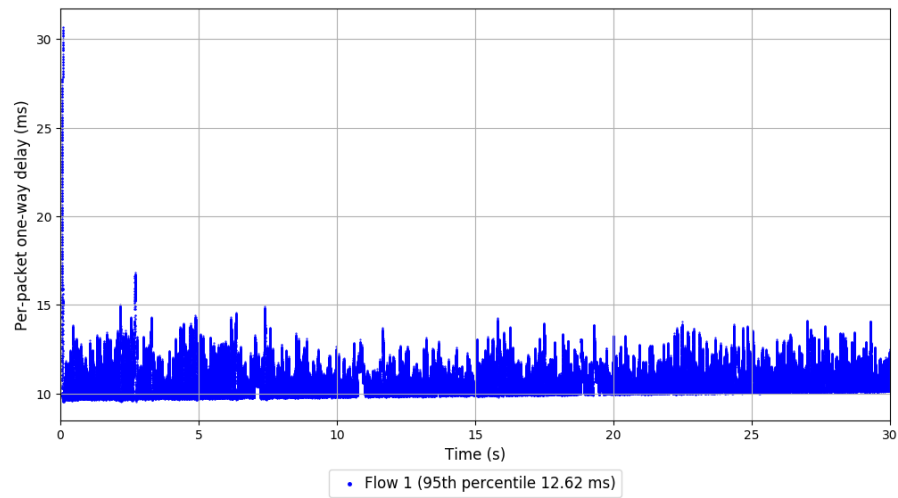
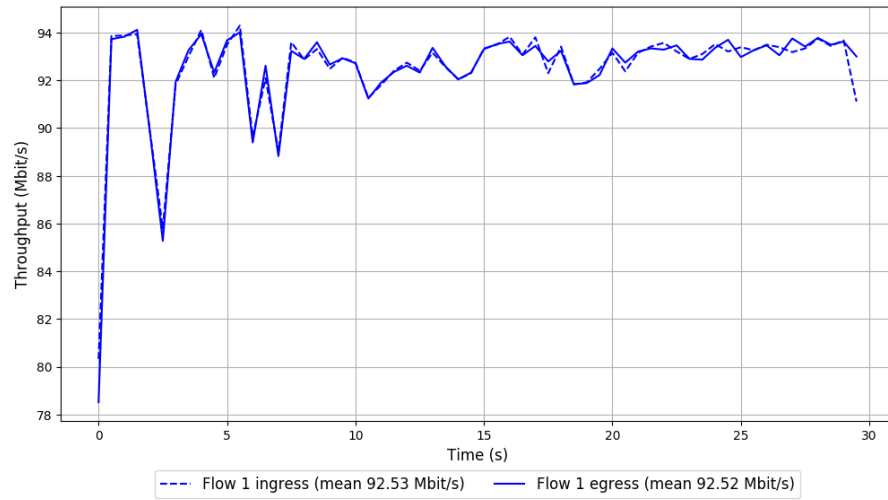
-- Flow 1:

Average throughput: 92.52 Mbit/s

95th percentile per-packet one-way delay: 12.620 ms

Loss rate: 0.00%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-03-13 05:40:06

End at: 2018-03-13 05:40:36

Local clock offset: 2.025 ms

Remote clock offset: -5.692 ms

Below is generated by plot.py at 2018-03-13 08:33:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.64 Mbit/s

95th percentile per-packet one-way delay: 14.064 ms

Loss rate: 0.00%

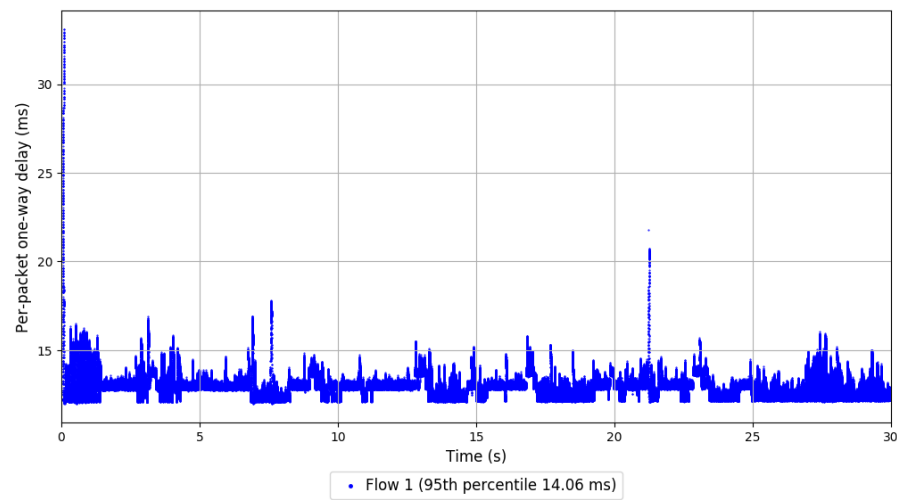
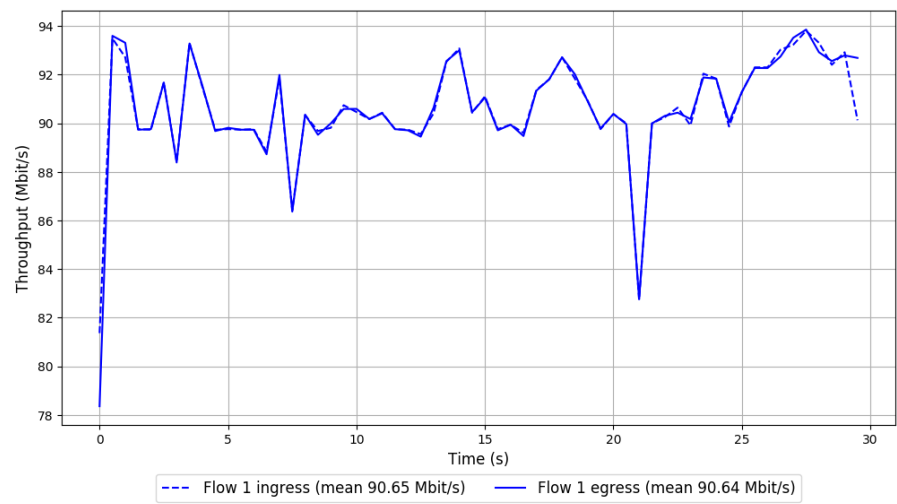
-- Flow 1:

Average throughput: 90.64 Mbit/s

95th percentile per-packet one-way delay: 14.064 ms

Loss rate: 0.00%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-03-13 06:01:05

End at: 2018-03-13 06:01:35

Local clock offset: 1.462 ms

Remote clock offset: -3.923 ms

Below is generated by plot.py at 2018-03-13 08:33:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.36 Mbit/s

95th percentile per-packet one-way delay: 13.591 ms

Loss rate: 0.00%

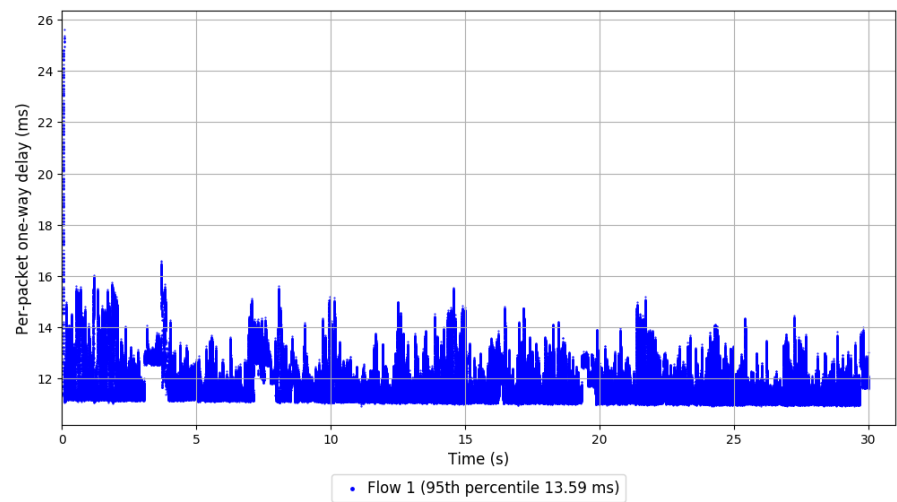
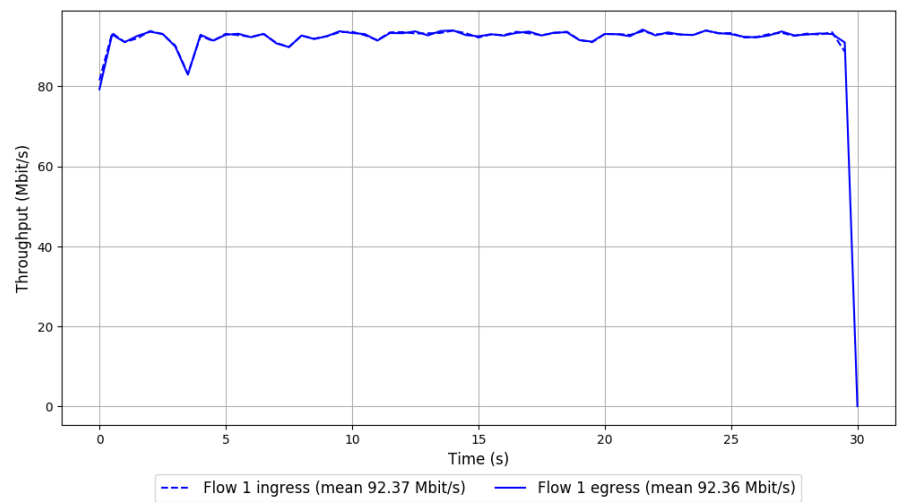
-- Flow 1:

Average throughput: 92.36 Mbit/s

95th percentile per-packet one-way delay: 13.591 ms

Loss rate: 0.00%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-03-13 06:22:07

End at: 2018-03-13 06:22:37

Local clock offset: 2.9 ms

Remote clock offset: 0.739 ms

Below is generated by plot.py at 2018-03-13 08:33:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.92 Mbit/s

95th percentile per-packet one-way delay: 15.243 ms

Loss rate: 0.00%

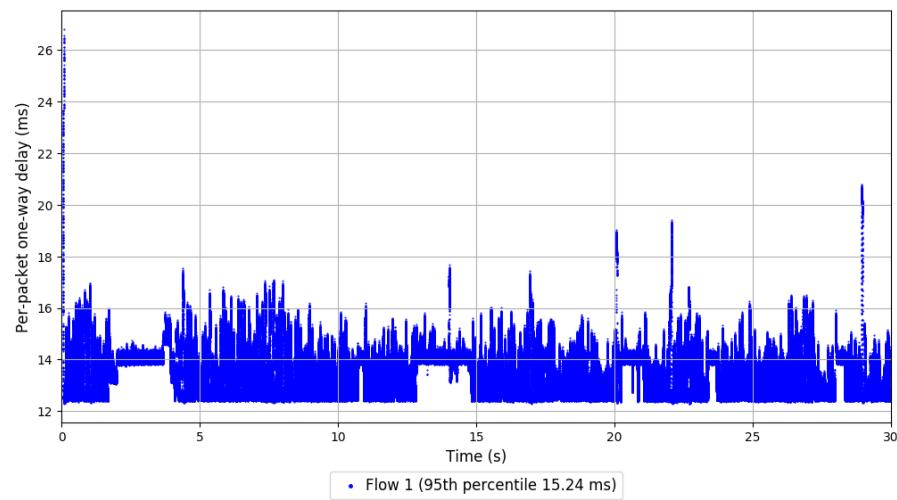
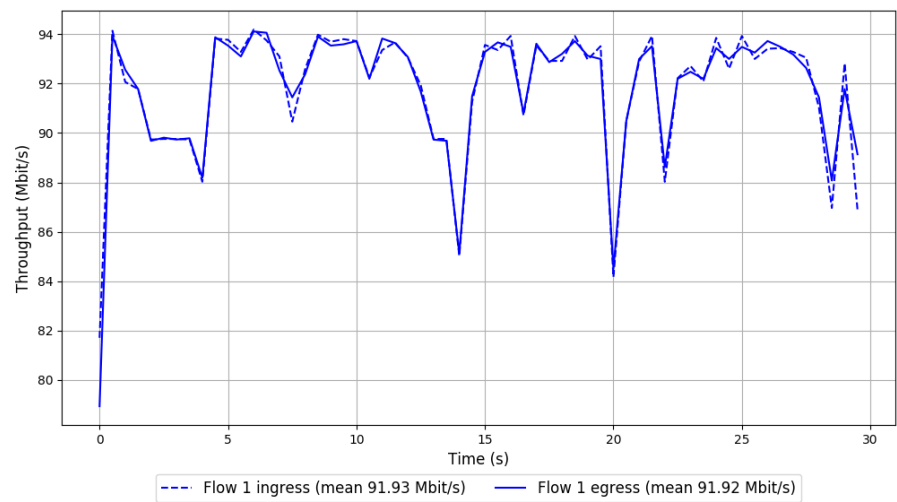
-- Flow 1:

Average throughput: 91.92 Mbit/s

95th percentile per-packet one-way delay: 15.243 ms

Loss rate: 0.00%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-03-13 06:43:23

End at: 2018-03-13 06:43:53

Local clock offset: 6.399 ms

Remote clock offset: 1.116 ms

Below is generated by plot.py at 2018-03-13 08:33:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.71 Mbit/s

95th percentile per-packet one-way delay: 12.346 ms

Loss rate: 0.00%

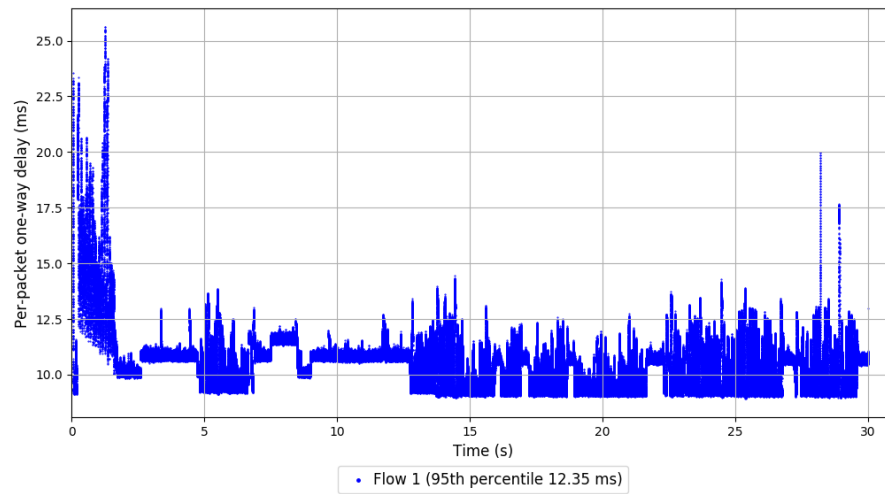
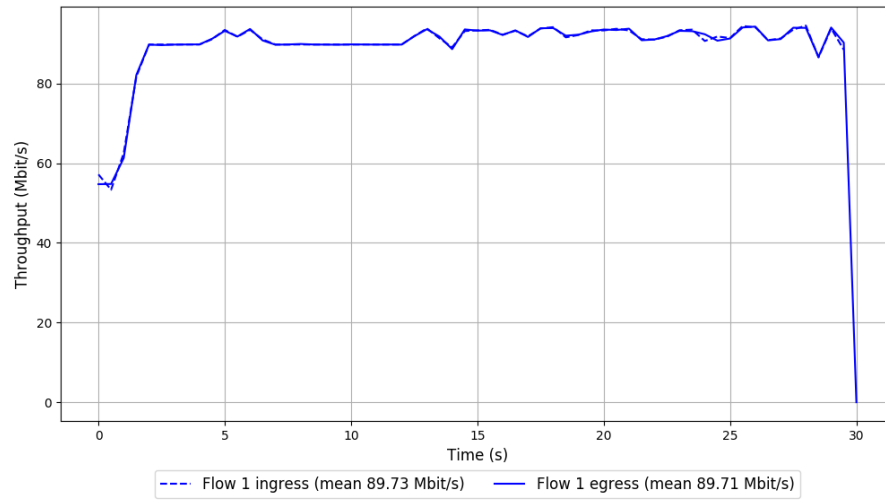
-- Flow 1:

Average throughput: 89.71 Mbit/s

95th percentile per-packet one-way delay: 12.346 ms

Loss rate: 0.00%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-03-13 07:04:39

End at: 2018-03-13 07:05:09

Local clock offset: 4.134 ms

Remote clock offset: 5.584 ms

Below is generated by plot.py at 2018-03-13 08:34:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.16 Mbit/s

95th percentile per-packet one-way delay: 12.367 ms

Loss rate: 0.00%

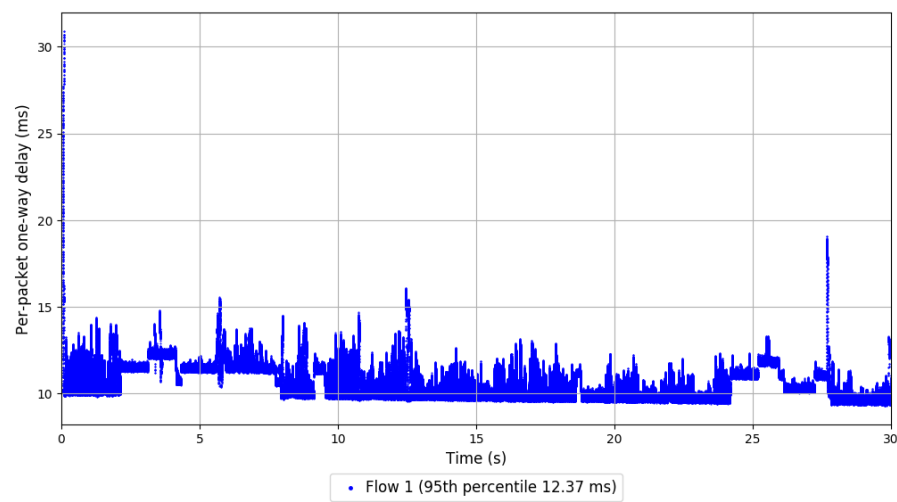
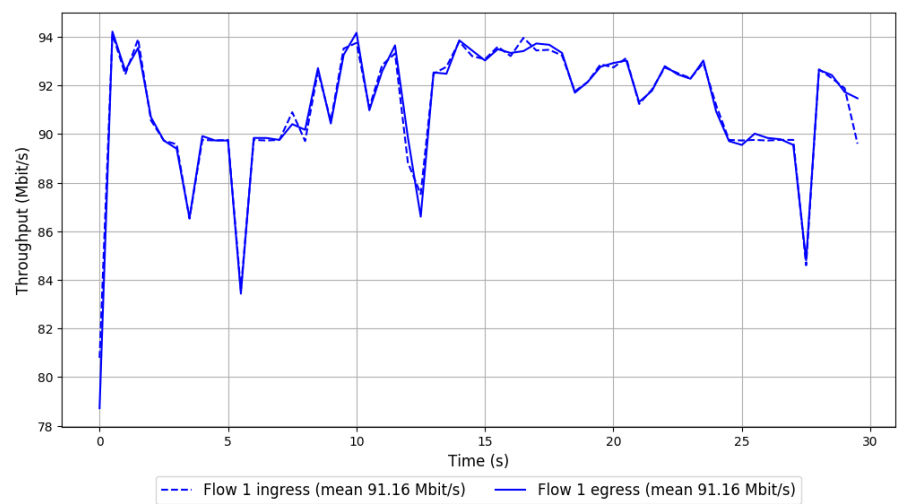
-- Flow 1:

Average throughput: 91.16 Mbit/s

95th percentile per-packet one-way delay: 12.367 ms

Loss rate: 0.00%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-03-13 07:25:25

End at: 2018-03-13 07:25:55

Local clock offset: 3.573 ms

Remote clock offset: 17.197 ms

Below is generated by plot.py at 2018-03-13 08:36:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.64 Mbit/s

95th percentile per-packet one-way delay: 12.466 ms

Loss rate: 0.00%

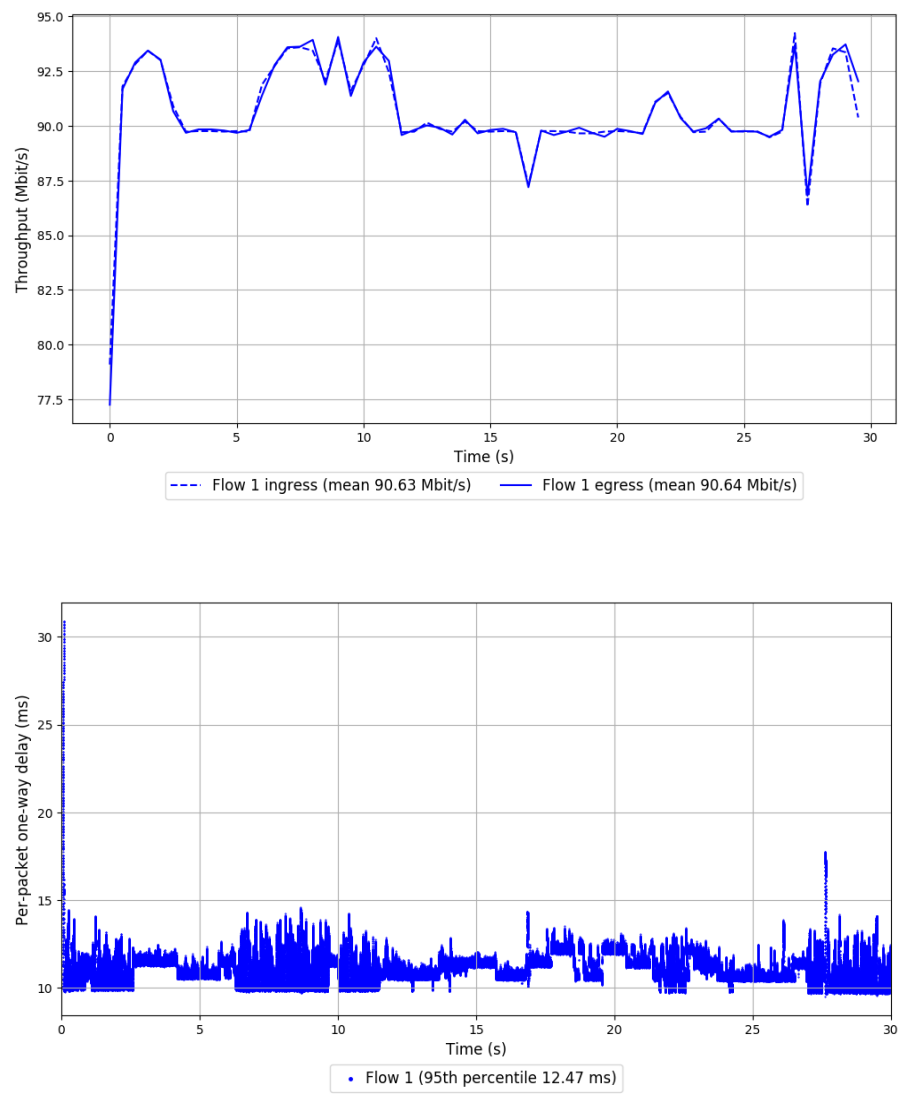
-- Flow 1:

Average throughput: 90.64 Mbit/s

95th percentile per-packet one-way delay: 12.466 ms

Loss rate: 0.00%

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



Run 10: Statistics of TaoVA-100x

Start at: 2018-03-13 07:46:11

End at: 2018-03-13 07:46:41

Local clock offset: 2.541 ms

Remote clock offset: 5.17 ms

Below is generated by plot.py at 2018-03-13 08:36:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.05 Mbit/s

95th percentile per-packet one-way delay: 13.328 ms

Loss rate: 0.00%

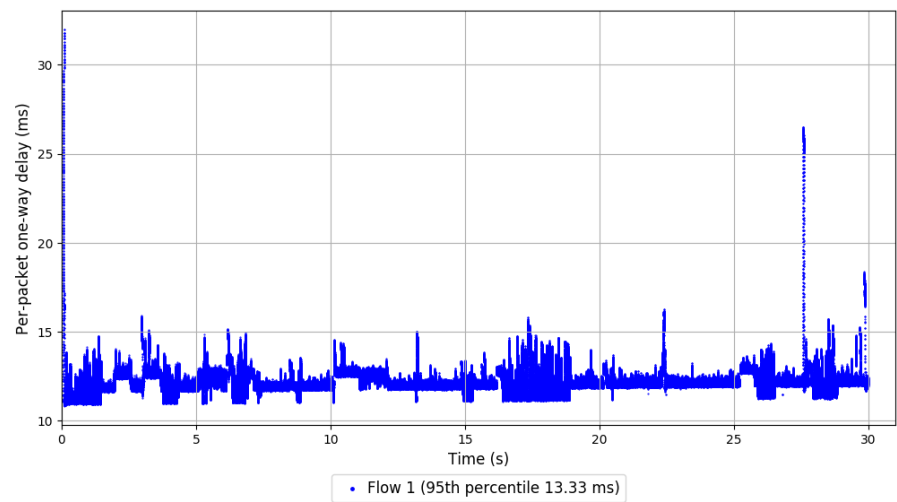
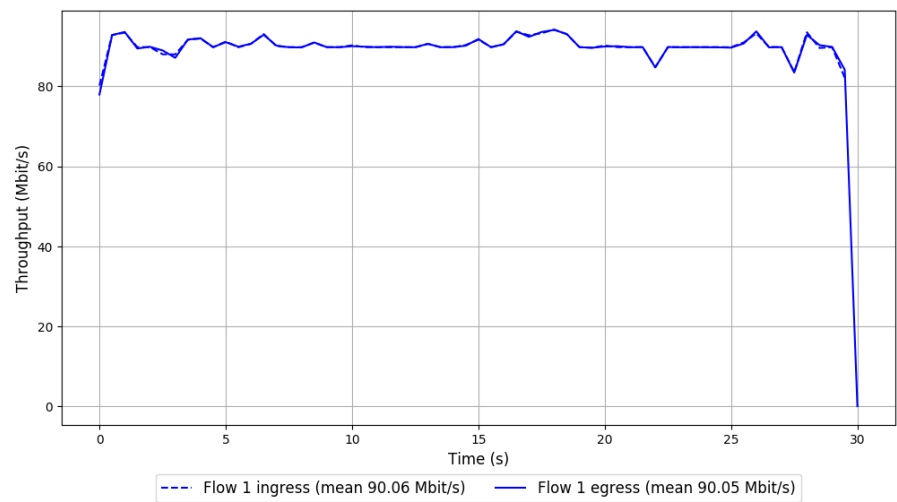
-- Flow 1:

Average throughput: 90.05 Mbit/s

95th percentile per-packet one-way delay: 13.328 ms

Loss rate: 0.00%

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



Run 1: Statistics of TCP Vegas

Start at: 2018-03-13 04:39:11

End at: 2018-03-13 04:39:41

Local clock offset: 6.098 ms

Remote clock offset: 0.059 ms

Below is generated by plot.py at 2018-03-13 08:36:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.80 Mbit/s

95th percentile per-packet one-way delay: 10.789 ms

Loss rate: 0.15%

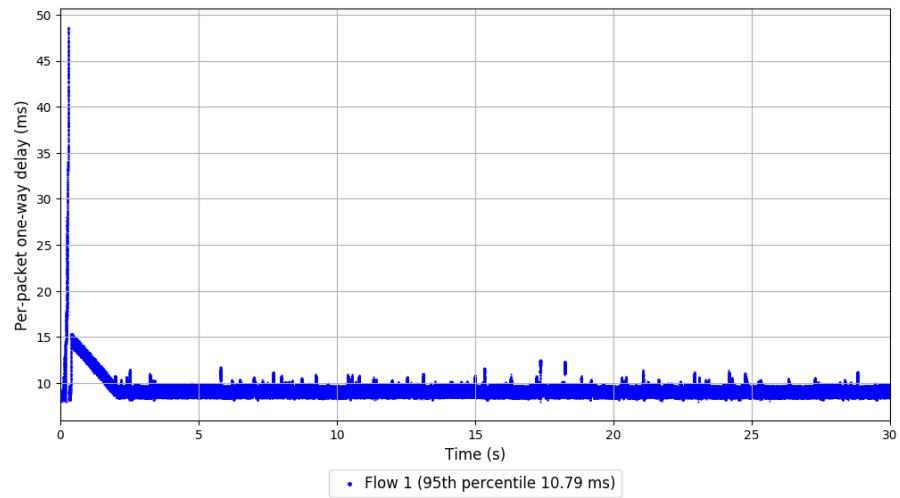
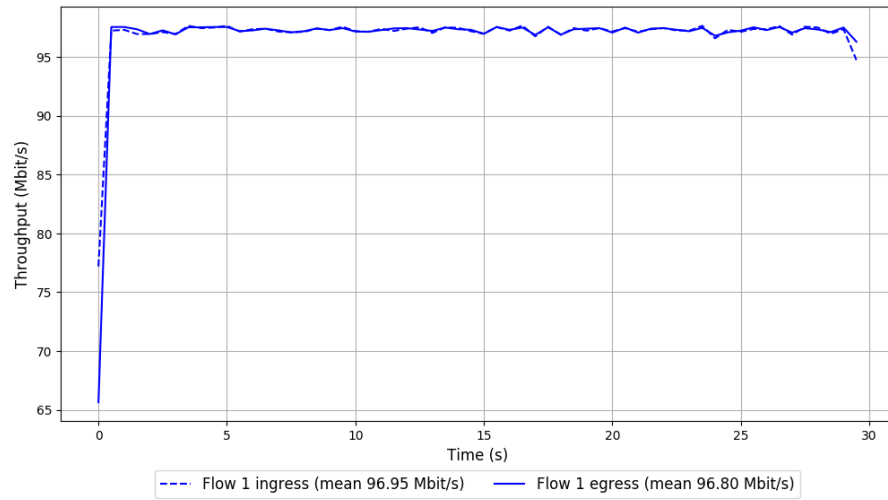
-- Flow 1:

Average throughput: 96.80 Mbit/s

95th percentile per-packet one-way delay: 10.789 ms

Loss rate: 0.15%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-03-13 05:00:32

End at: 2018-03-13 05:01:02

Local clock offset: 2.995 ms

Remote clock offset: 2.038 ms

Below is generated by plot.py at 2018-03-13 08:36:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.61 Mbit/s

95th percentile per-packet one-way delay: 19.858 ms

Loss rate: 0.18%

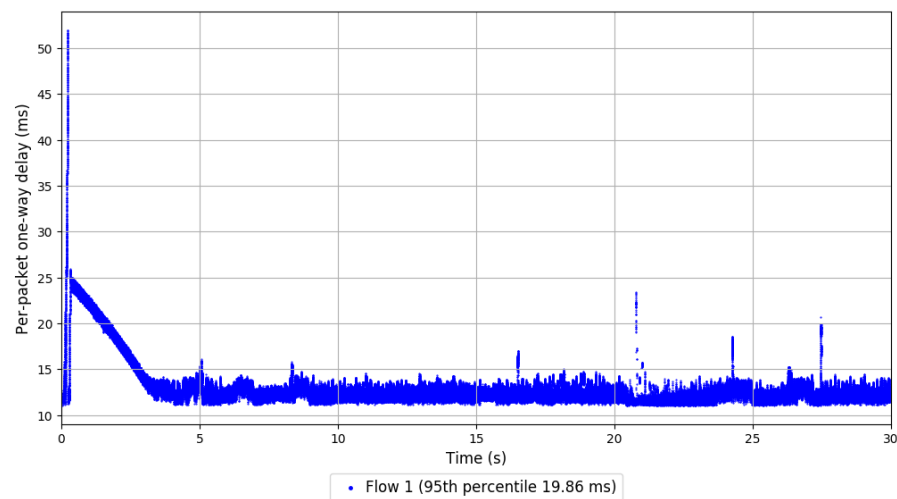
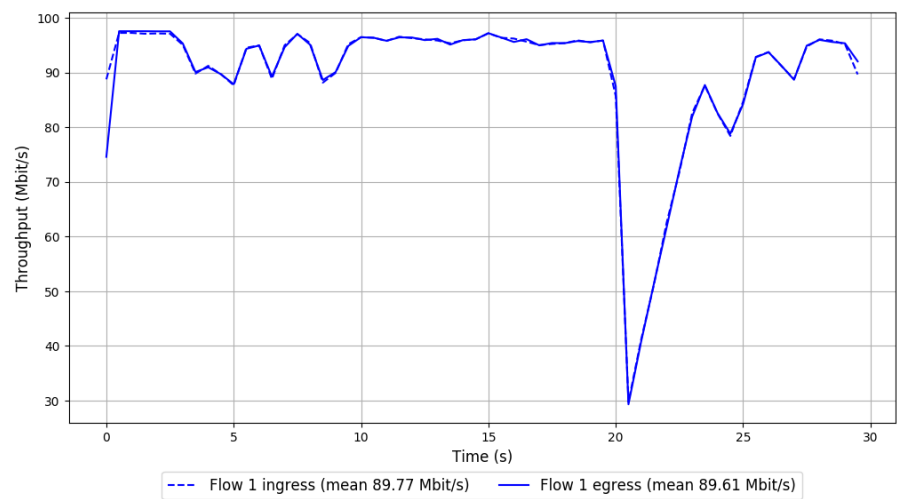
-- Flow 1:

Average throughput: 89.61 Mbit/s

95th percentile per-packet one-way delay: 19.858 ms

Loss rate: 0.18%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-03-13 05:21:39

End at: 2018-03-13 05:22:09

Local clock offset: 2.205 ms

Remote clock offset: 0.934 ms

Below is generated by plot.py at 2018-03-13 08:36:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.63 Mbit/s

95th percentile per-packet one-way delay: 22.109 ms

Loss rate: 0.00%

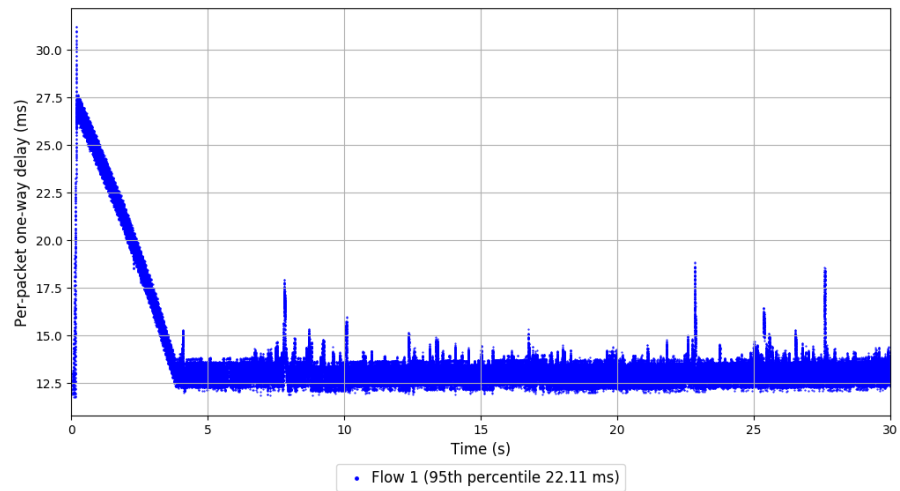
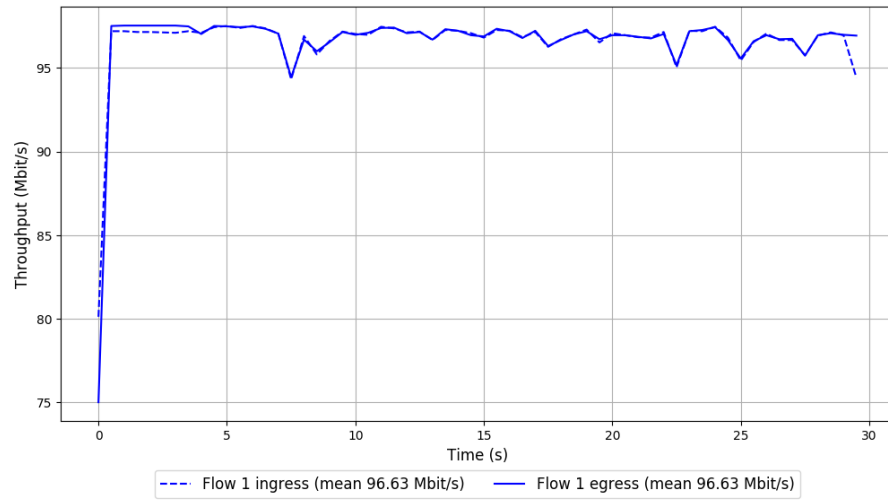
-- Flow 1:

Average throughput: 96.63 Mbit/s

95th percentile per-packet one-way delay: 22.109 ms

Loss rate: 0.00%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-03-13 05:42:34

End at: 2018-03-13 05:43:04

Local clock offset: 0.758 ms

Remote clock offset: -7.57 ms

Below is generated by plot.py at 2018-03-13 08:36:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.30 Mbit/s

95th percentile per-packet one-way delay: 21.549 ms

Loss rate: 0.00%

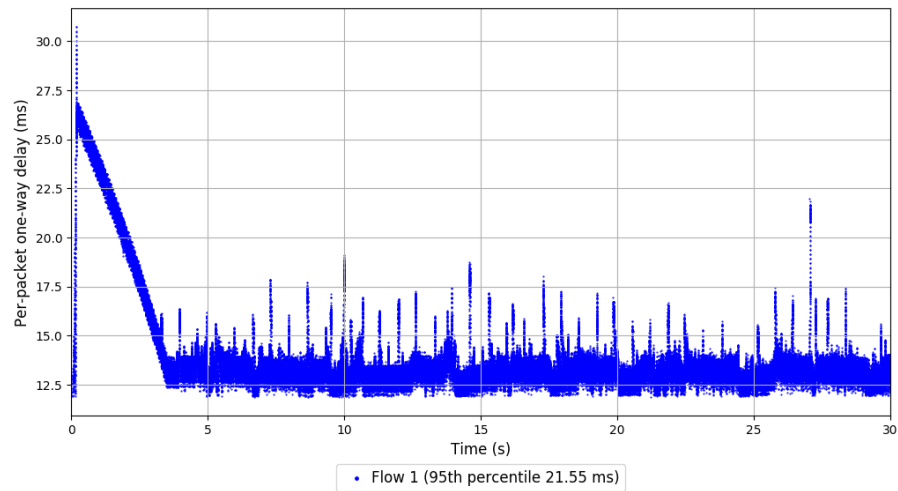
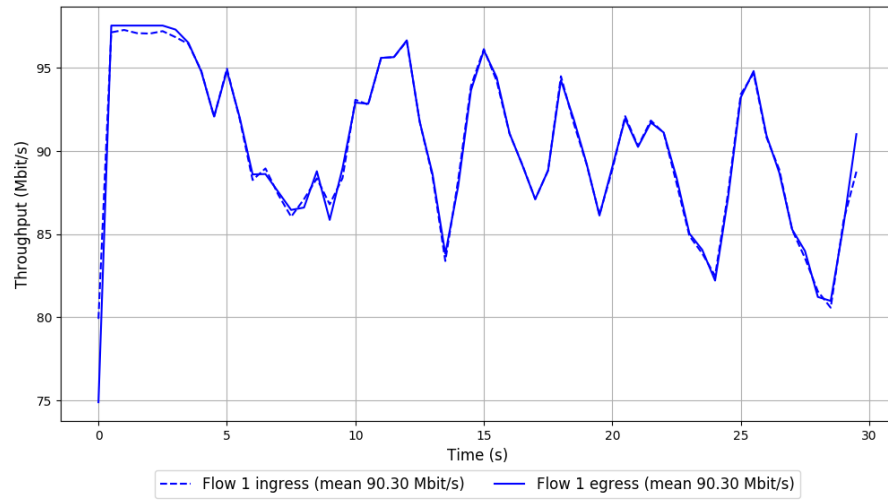
-- Flow 1:

Average throughput: 90.30 Mbit/s

95th percentile per-packet one-way delay: 21.549 ms

Loss rate: 0.00%

Run 4: Report of TCP Vegas — Data Link

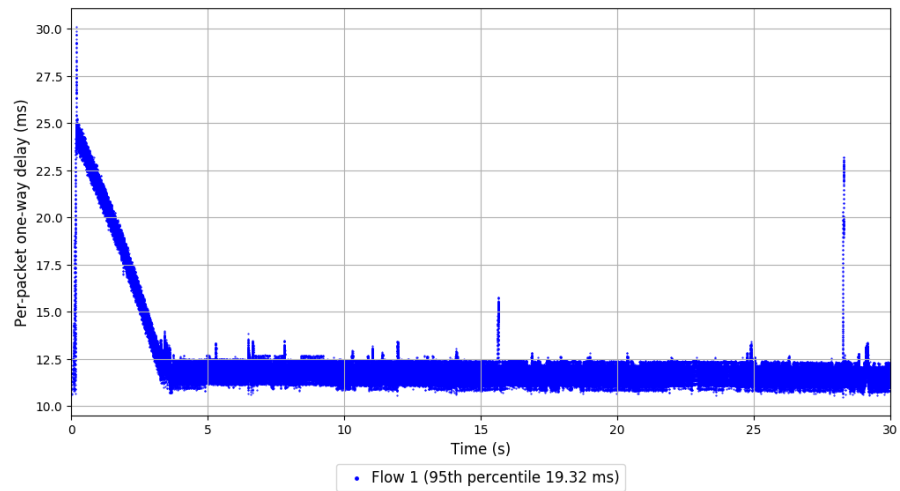
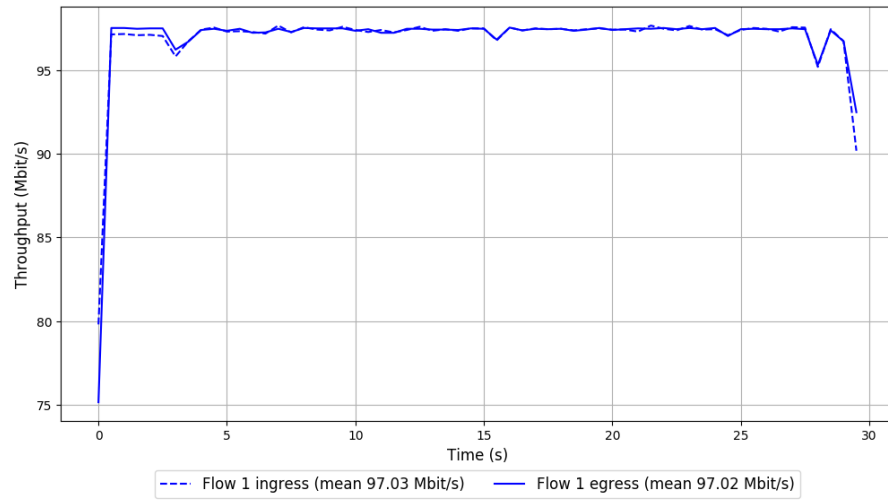


Run 5: Statistics of TCP Vegas

Start at: 2018-03-13 06:03:31
End at: 2018-03-13 06:04:01
Local clock offset: 3.05 ms
Remote clock offset: -1.799 ms

Below is generated by plot.py at 2018-03-13 08:36:04
Datalink statistics
-- Total of 1 flow:
Average throughput: 97.02 Mbit/s
95th percentile per-packet one-way delay: 19.319 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 97.02 Mbit/s
95th percentile per-packet one-way delay: 19.319 ms
Loss rate: 0.00%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-03-13 06:24:34

End at: 2018-03-13 06:25:04

Local clock offset: 6.739 ms

Remote clock offset: 0.891 ms

Below is generated by plot.py at 2018-03-13 08:36:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.22 Mbit/s

95th percentile per-packet one-way delay: 18.187 ms

Loss rate: 0.17%

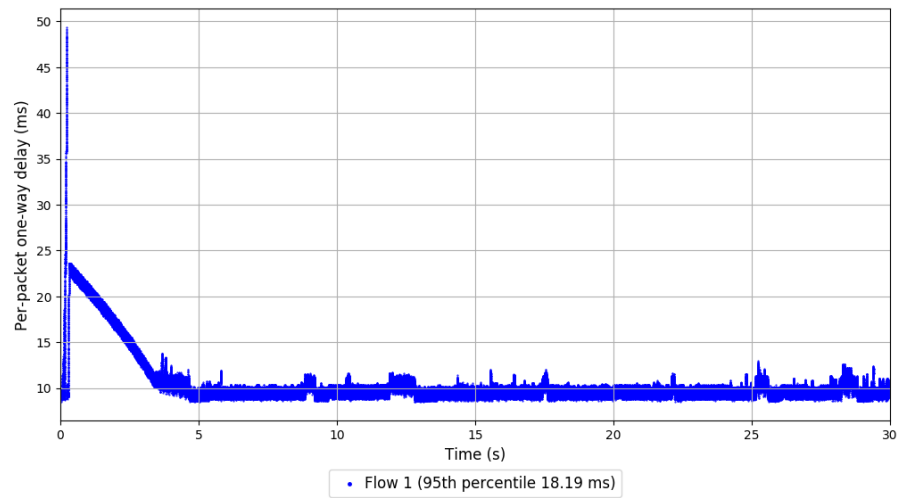
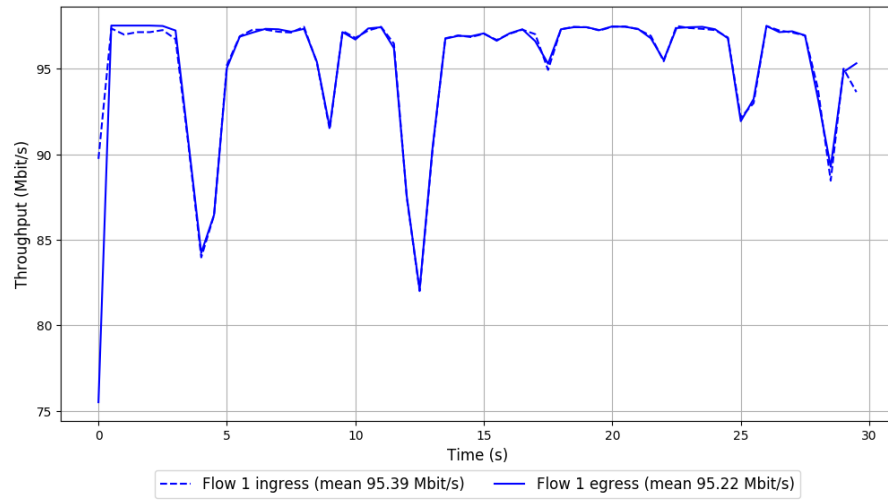
-- Flow 1:

Average throughput: 95.22 Mbit/s

95th percentile per-packet one-way delay: 18.187 ms

Loss rate: 0.17%

Run 6: Report of TCP Vegas — Data Link

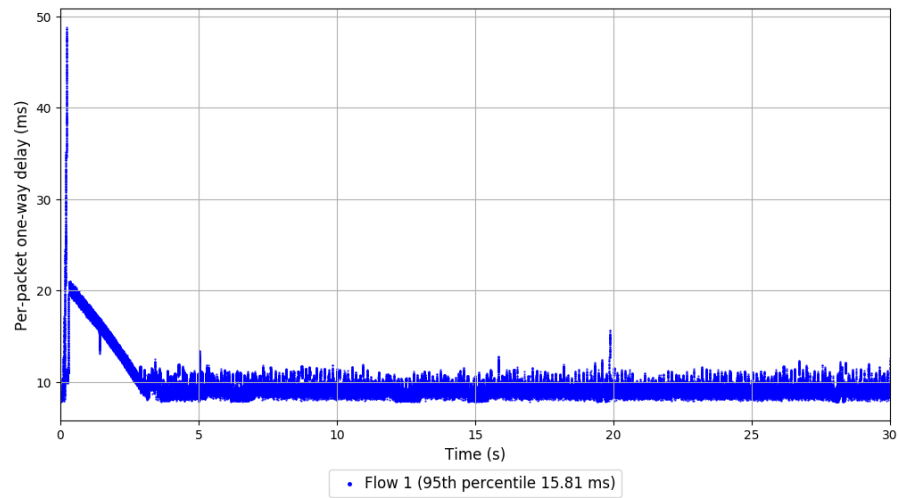
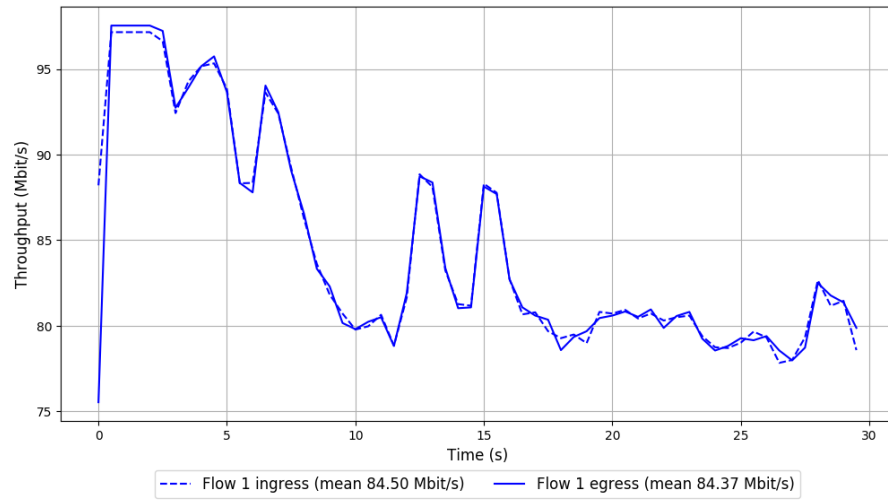


Run 7: Statistics of TCP Vegas

Start at: 2018-03-13 06:45:50
End at: 2018-03-13 06:46:20
Local clock offset: 4.942 ms
Remote clock offset: -1.165 ms

Below is generated by plot.py at 2018-03-13 08:36:15
Datalink statistics
-- Total of 1 flow:
Average throughput: 84.37 Mbit/s
95th percentile per-packet one-way delay: 15.810 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 84.37 Mbit/s
95th percentile per-packet one-way delay: 15.810 ms
Loss rate: 0.18%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-03-13 07:07:06

End at: 2018-03-13 07:07:36

Local clock offset: 4.575 ms

Remote clock offset: 8.62 ms

Below is generated by plot.py at 2018-03-13 08:36:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.17 Mbit/s

95th percentile per-packet one-way delay: 19.159 ms

Loss rate: 0.21%

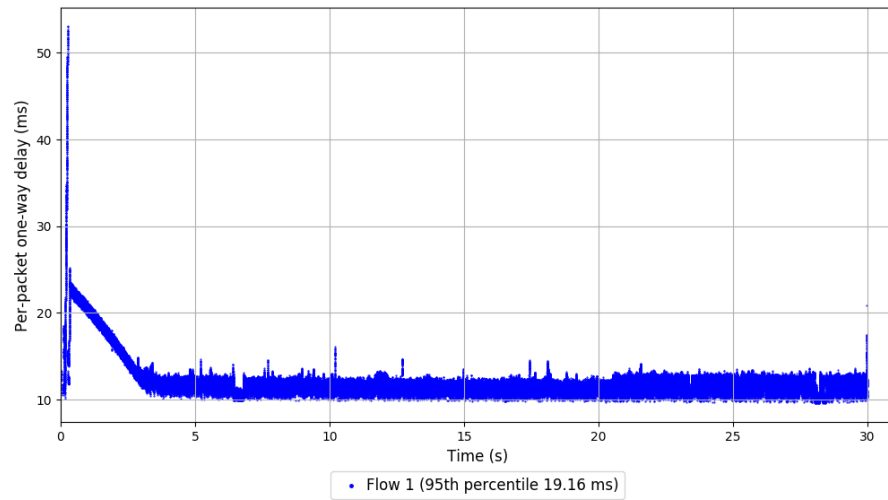
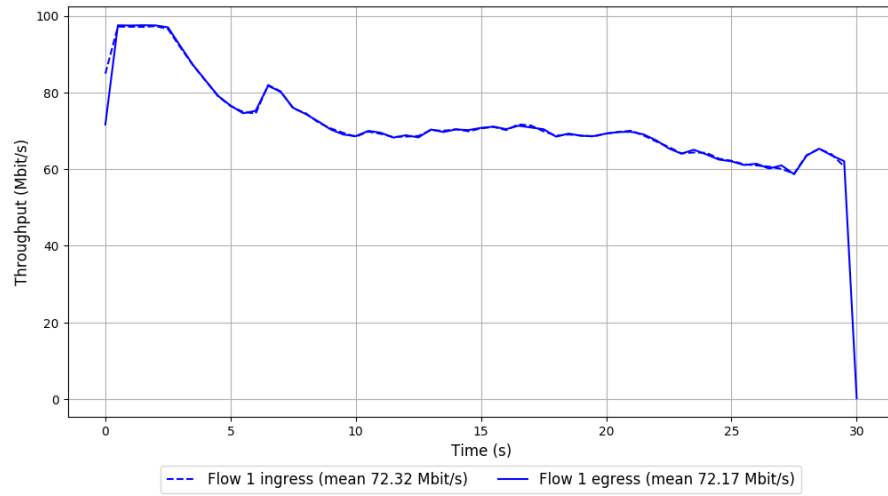
-- Flow 1:

Average throughput: 72.17 Mbit/s

95th percentile per-packet one-way delay: 19.159 ms

Loss rate: 0.21%

Run 8: Report of TCP Vegas — Data Link

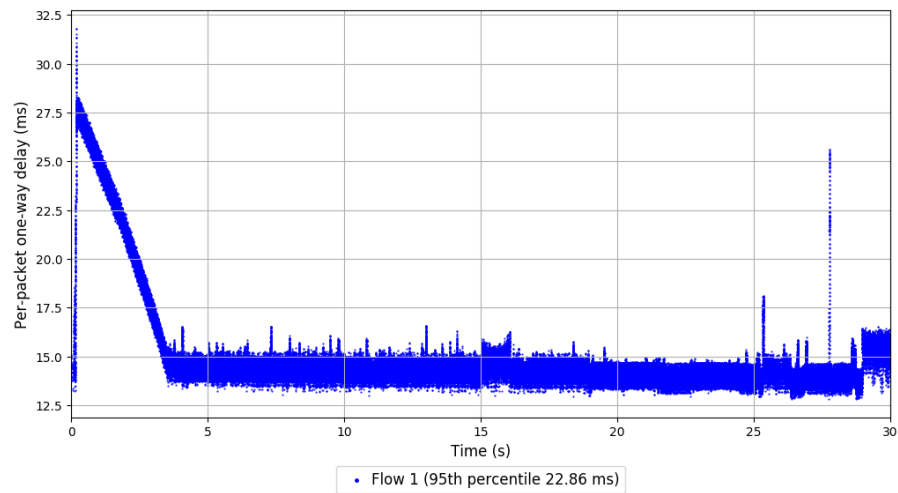
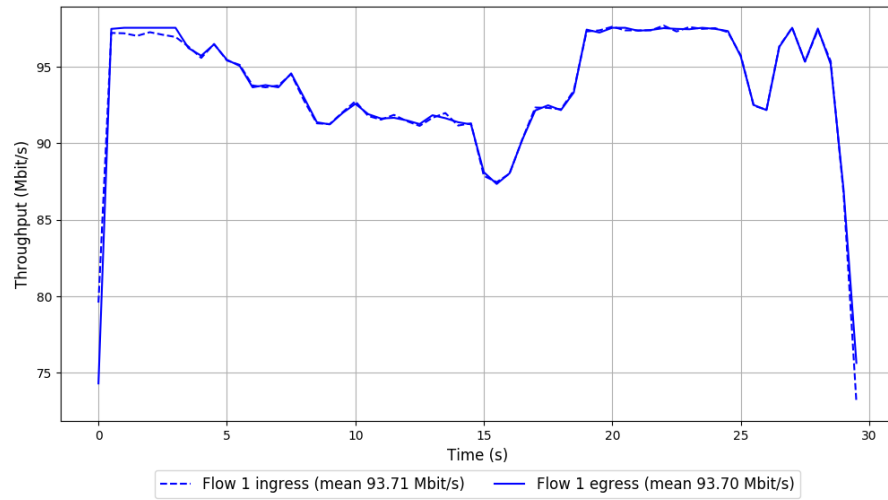


Run 9: Statistics of TCP Vegas

Start at: 2018-03-13 07:27:49
End at: 2018-03-13 07:28:19
Local clock offset: 0.396 ms
Remote clock offset: 18.016 ms

Below is generated by plot.py at 2018-03-13 08:36:42
Datalink statistics
-- Total of 1 flow:
Average throughput: 93.70 Mbit/s
95th percentile per-packet one-way delay: 22.862 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 93.70 Mbit/s
95th percentile per-packet one-way delay: 22.862 ms
Loss rate: 0.00%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-03-13 07:48:37

End at: 2018-03-13 07:49:07

Local clock offset: 2.046 ms

Remote clock offset: 3.199 ms

Below is generated by plot.py at 2018-03-13 08:36:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 80.95 Mbit/s

95th percentile per-packet one-way delay: 20.160 ms

Loss rate: 0.20%

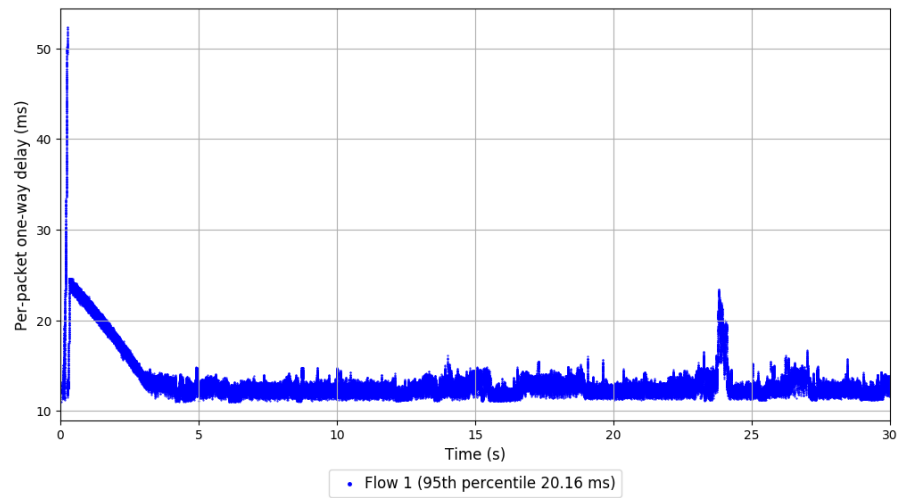
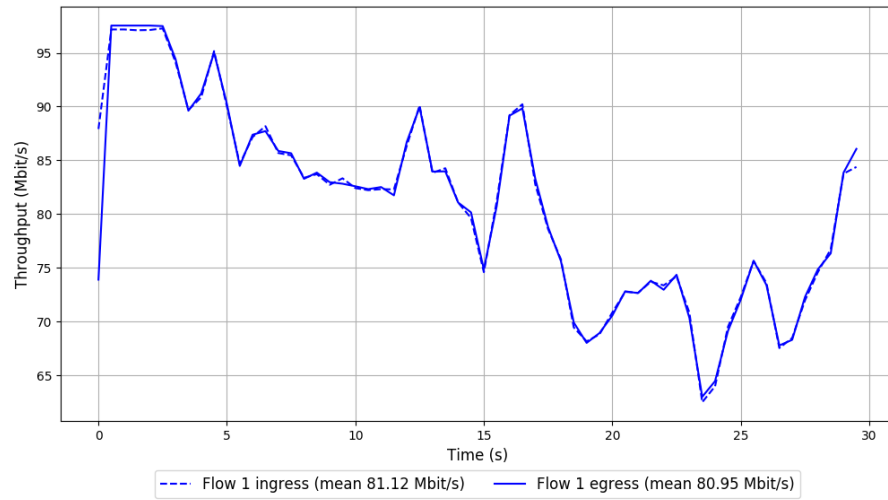
-- Flow 1:

Average throughput: 80.95 Mbit/s

95th percentile per-packet one-way delay: 20.160 ms

Loss rate: 0.20%

Run 10: Report of TCP Vegas — Data Link

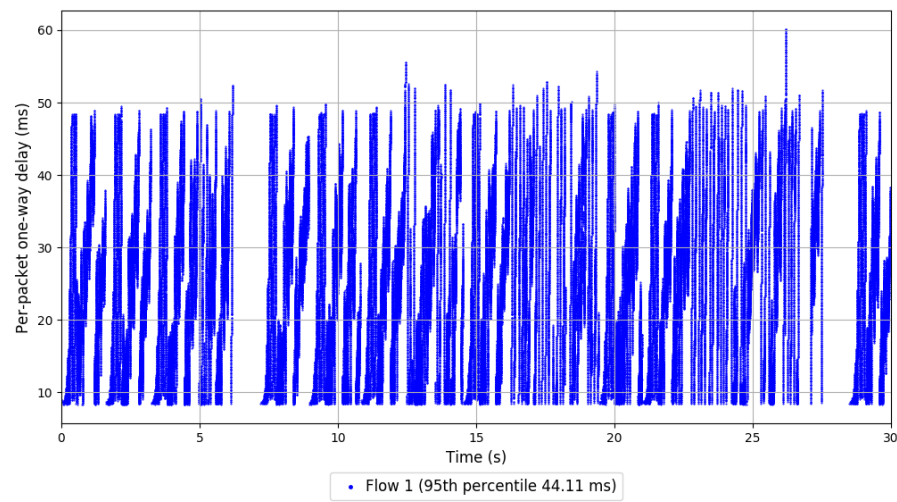
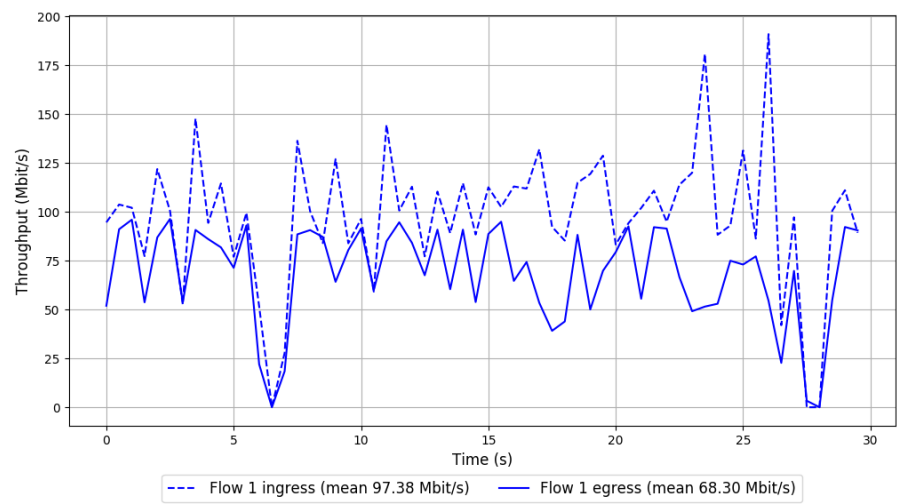


Run 1: Statistics of Verus

Start at: 2018-03-13 04:28:37
End at: 2018-03-13 04:29:07
Local clock offset: 5.897 ms
Remote clock offset: -0.137 ms

Below is generated by plot.py at 2018-03-13 08:36:42
Datalink statistics
-- Total of 1 flow:
Average throughput: 68.30 Mbit/s
95th percentile per-packet one-way delay: 44.107 ms
Loss rate: 29.80%
-- Flow 1:
Average throughput: 68.30 Mbit/s
95th percentile per-packet one-way delay: 44.107 ms
Loss rate: 29.80%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-03-13 04:49:39

End at: 2018-03-13 04:50:09

Local clock offset: 6.12 ms

Remote clock offset: 1.806 ms

Below is generated by plot.py at 2018-03-13 08:36:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.18 Mbit/s

95th percentile per-packet one-way delay: 43.857 ms

Loss rate: 22.34%

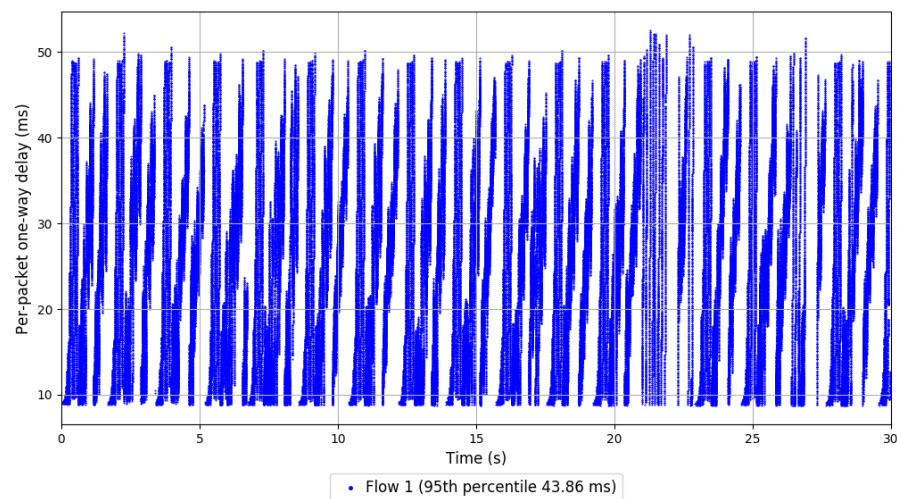
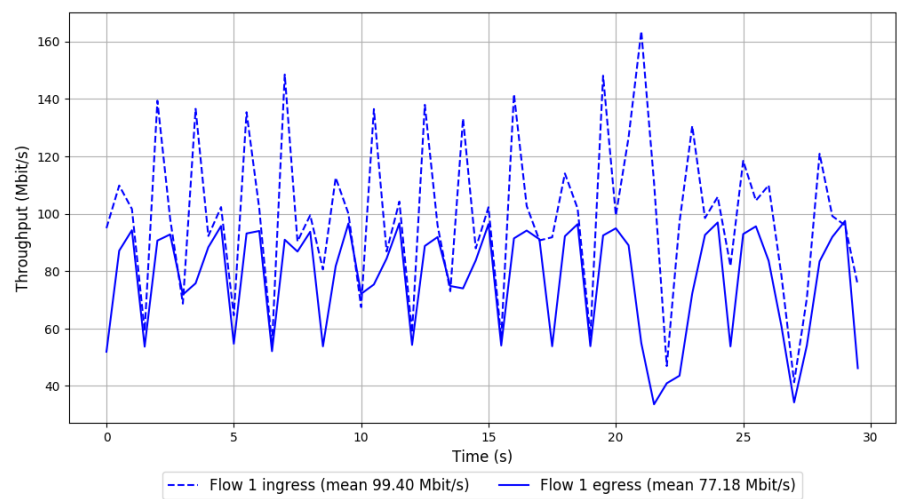
-- Flow 1:

Average throughput: 77.18 Mbit/s

95th percentile per-packet one-way delay: 43.857 ms

Loss rate: 22.34%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-03-13 05:11:02

End at: 2018-03-13 05:11:32

Local clock offset: 4.69 ms

Remote clock offset: 2.132 ms

Below is generated by plot.py at 2018-03-13 08:37:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 80.82 Mbit/s

95th percentile per-packet one-way delay: 43.852 ms

Loss rate: 17.89%

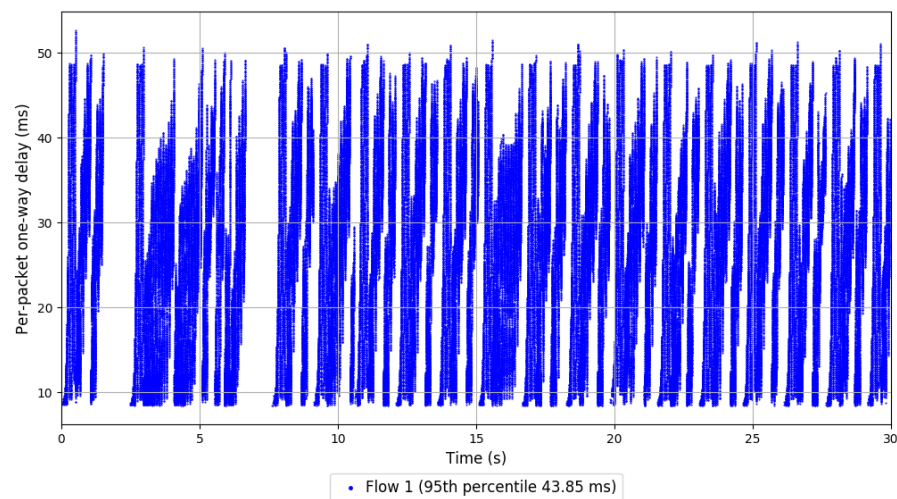
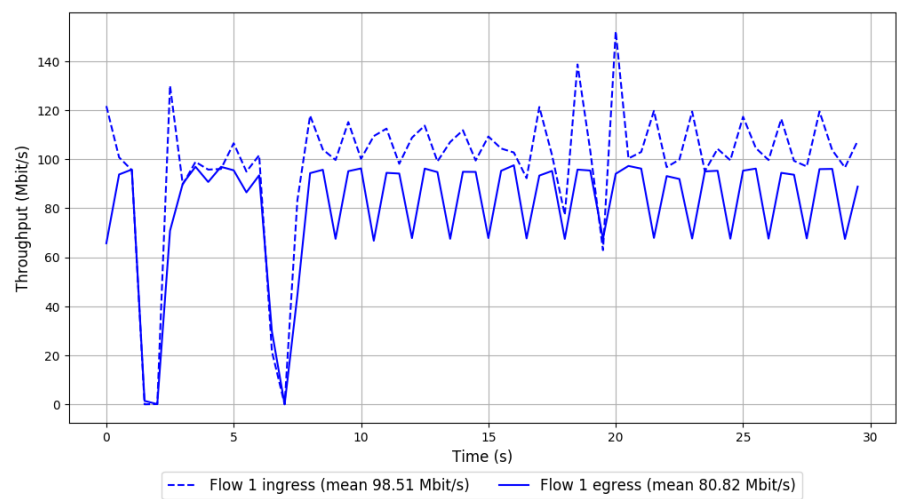
-- Flow 1:

Average throughput: 80.82 Mbit/s

95th percentile per-packet one-way delay: 43.852 ms

Loss rate: 17.89%

Run 3: Report of Verus — Data Link

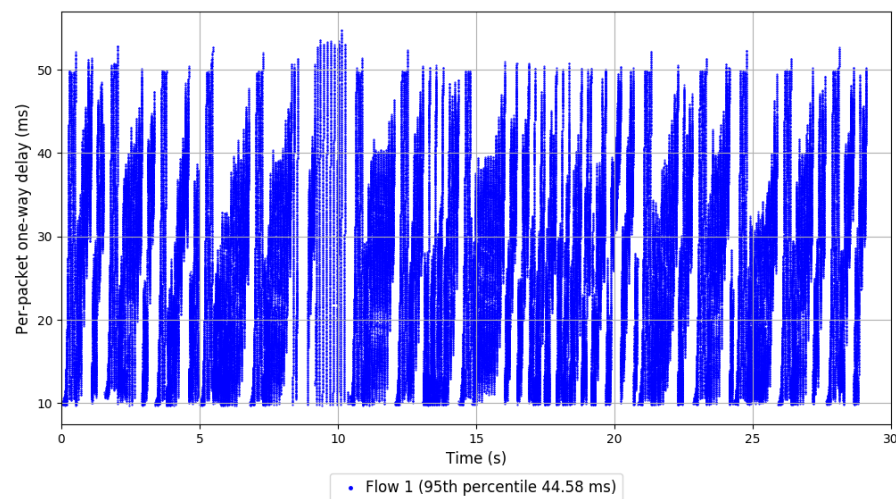
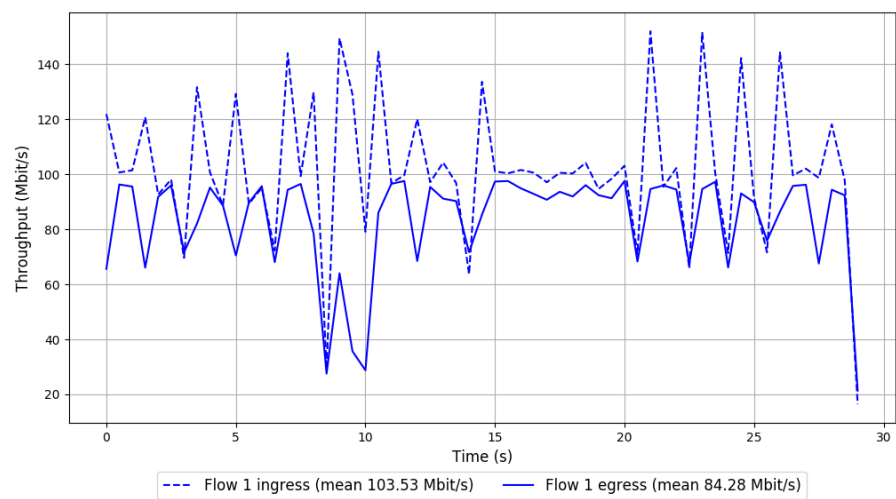


Run 4: Statistics of Verus

Start at: 2018-03-13 05:32:02
End at: 2018-03-13 05:32:32
Local clock offset: 3.86 ms
Remote clock offset: -4.358 ms

Below is generated by plot.py at 2018-03-13 08:37:23
Datalink statistics
-- Total of 1 flow:
Average throughput: 84.28 Mbit/s
95th percentile per-packet one-way delay: 44.582 ms
Loss rate: 18.52%
-- Flow 1:
Average throughput: 84.28 Mbit/s
95th percentile per-packet one-way delay: 44.582 ms
Loss rate: 18.52%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-03-13 05:52:54

End at: 2018-03-13 05:53:24

Local clock offset: 3.154 ms

Remote clock offset: -9.08 ms

Below is generated by plot.py at 2018-03-13 08:37:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.55 Mbit/s

95th percentile per-packet one-way delay: 44.011 ms

Loss rate: 18.80%

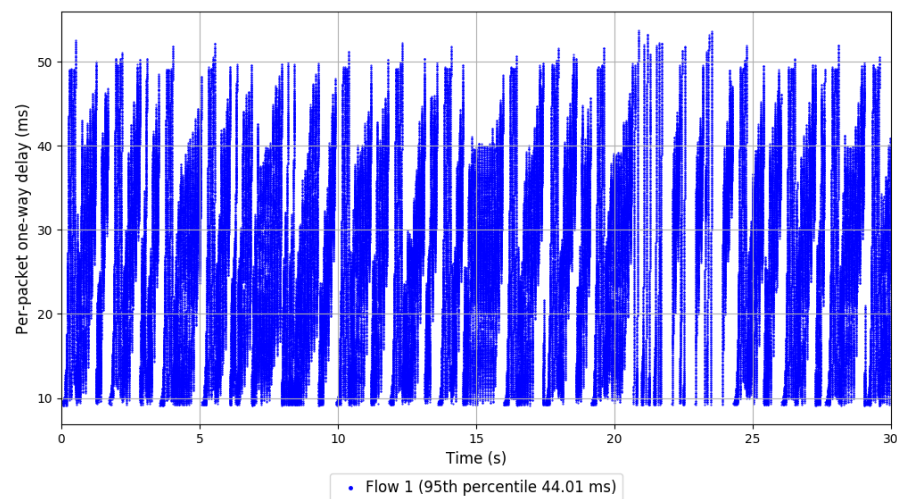
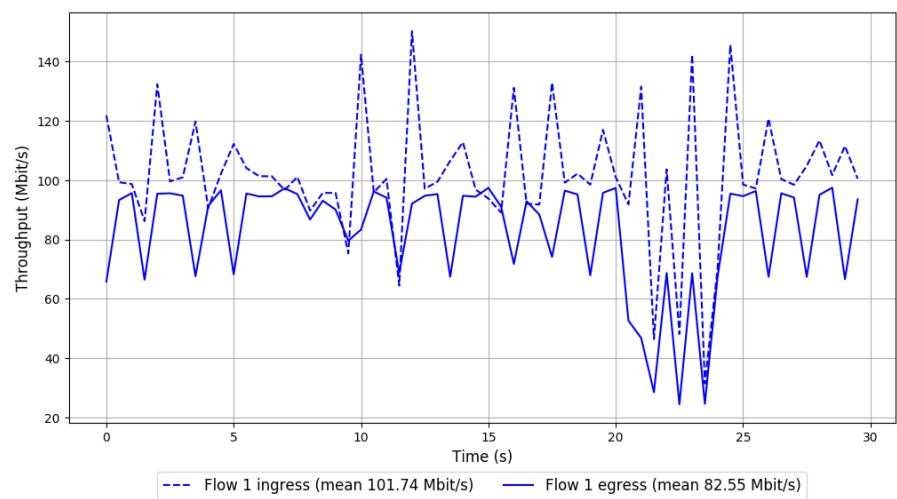
-- Flow 1:

Average throughput: 82.55 Mbit/s

95th percentile per-packet one-way delay: 44.011 ms

Loss rate: 18.80%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-03-13 06:13:57

End at: 2018-03-13 06:14:27

Local clock offset: 3.122 ms

Remote clock offset: 0.025 ms

Below is generated by plot.py at 2018-03-13 08:37:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.49 Mbit/s

95th percentile per-packet one-way delay: 46.176 ms

Loss rate: 13.20%

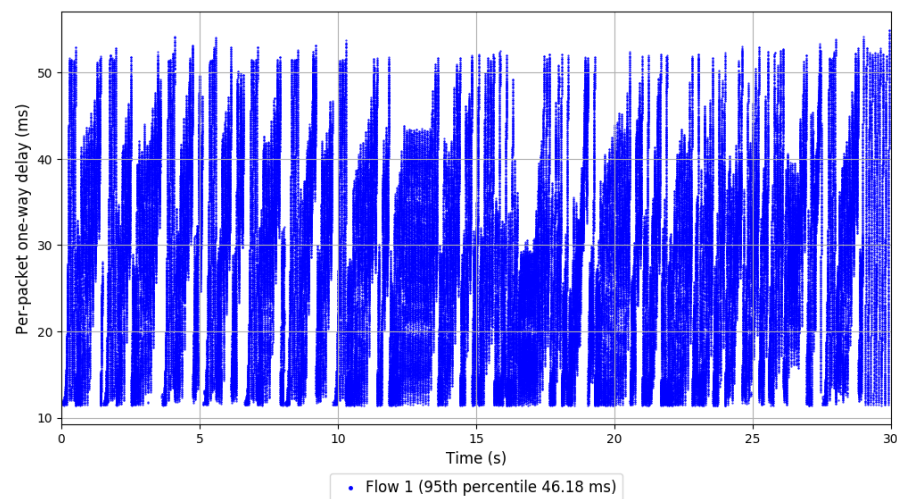
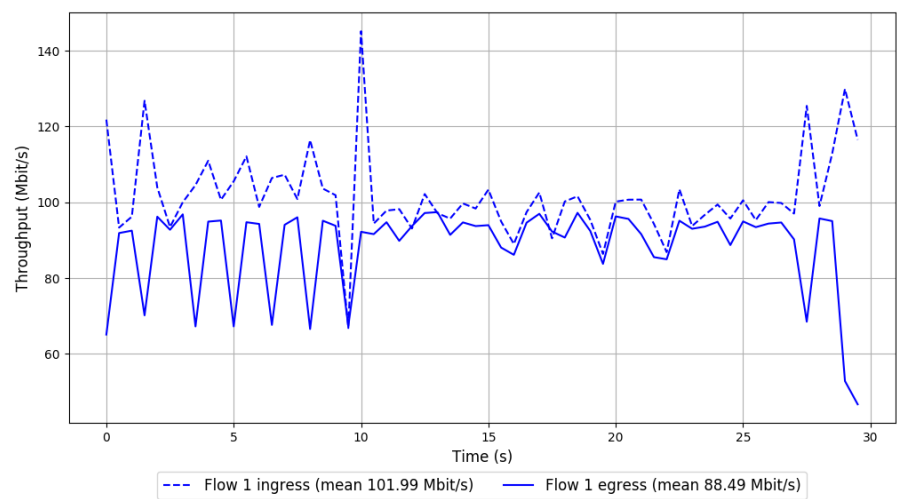
-- Flow 1:

Average throughput: 88.49 Mbit/s

95th percentile per-packet one-way delay: 46.176 ms

Loss rate: 13.20%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-03-13 06:35:02

End at: 2018-03-13 06:35:32

Local clock offset: 6.89 ms

Remote clock offset: 0.493 ms

Below is generated by plot.py at 2018-03-13 08:37:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.36 Mbit/s

95th percentile per-packet one-way delay: 43.645 ms

Loss rate: 18.78%

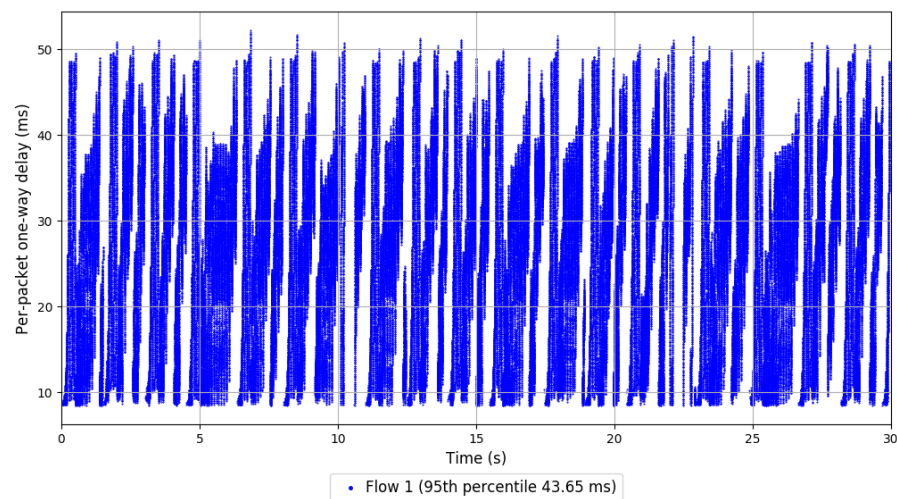
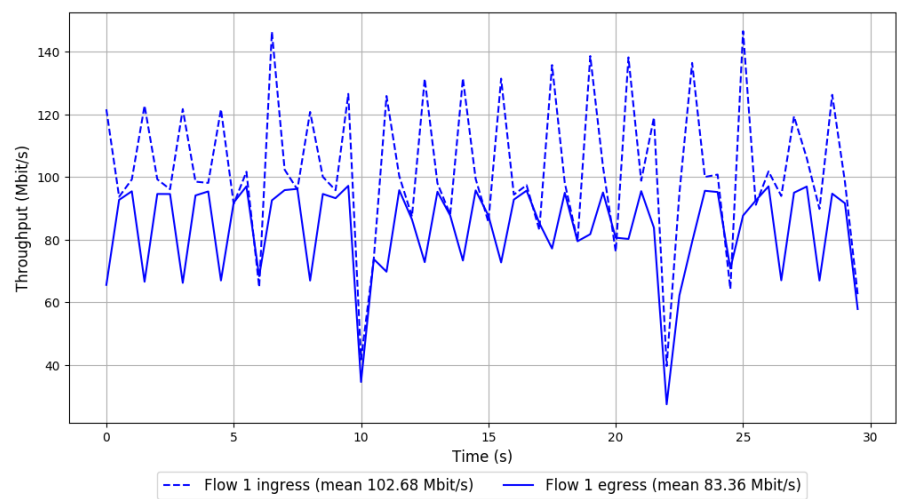
-- Flow 1:

Average throughput: 83.36 Mbit/s

95th percentile per-packet one-way delay: 43.645 ms

Loss rate: 18.78%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-03-13 06:56:28

End at: 2018-03-13 06:56:58

Local clock offset: 5.045 ms

Remote clock offset: 1.923 ms

Below is generated by plot.py at 2018-03-13 08:37:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.89 Mbit/s

95th percentile per-packet one-way delay: 44.674 ms

Loss rate: 14.60%

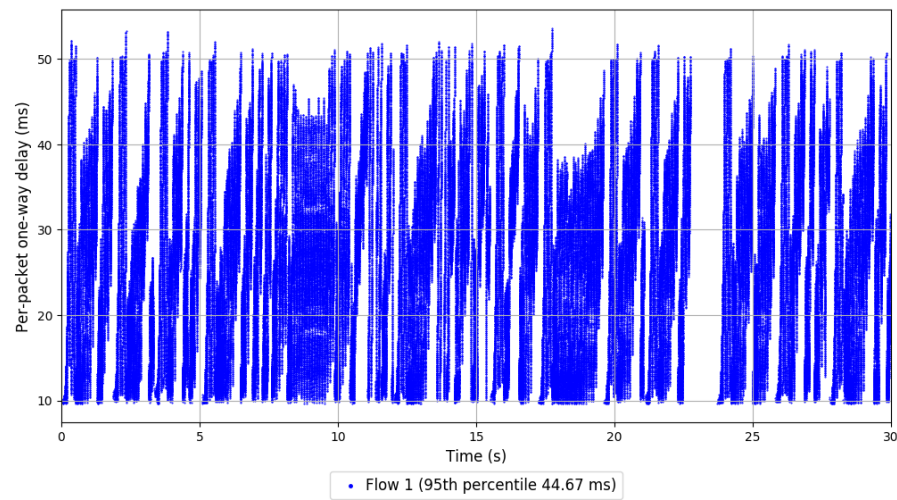
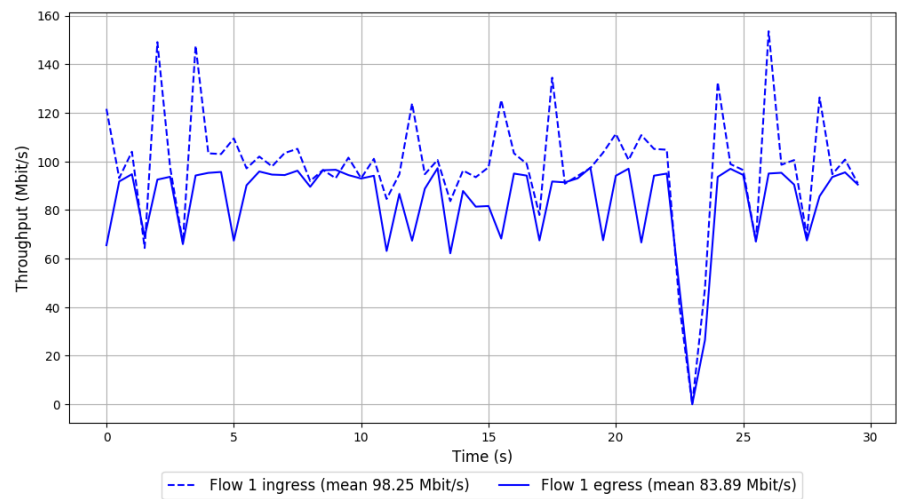
-- Flow 1:

Average throughput: 83.89 Mbit/s

95th percentile per-packet one-way delay: 44.674 ms

Loss rate: 14.60%

Run 8: Report of Verus — Data Link

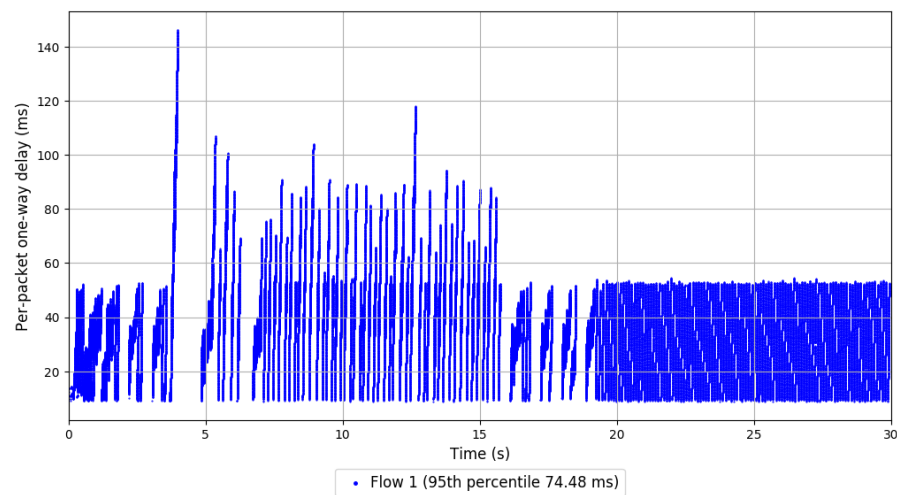
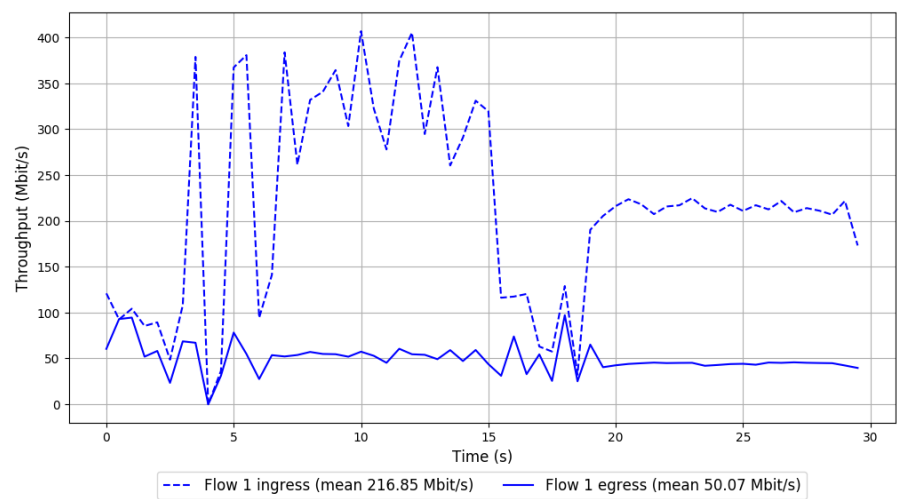


Run 9: Statistics of Verus

Start at: 2018-03-13 07:17:24
End at: 2018-03-13 07:17:54
Local clock offset: 4.413 ms
Remote clock offset: 13.873 ms

Below is generated by plot.py at 2018-03-13 08:38:13
Datalink statistics
-- Total of 1 flow:
Average throughput: 50.07 Mbit/s
95th percentile per-packet one-way delay: 74.482 ms
Loss rate: 76.90%
-- Flow 1:
Average throughput: 50.07 Mbit/s
95th percentile per-packet one-way delay: 74.482 ms
Loss rate: 76.90%

Run 9: Report of Verus — Data Link

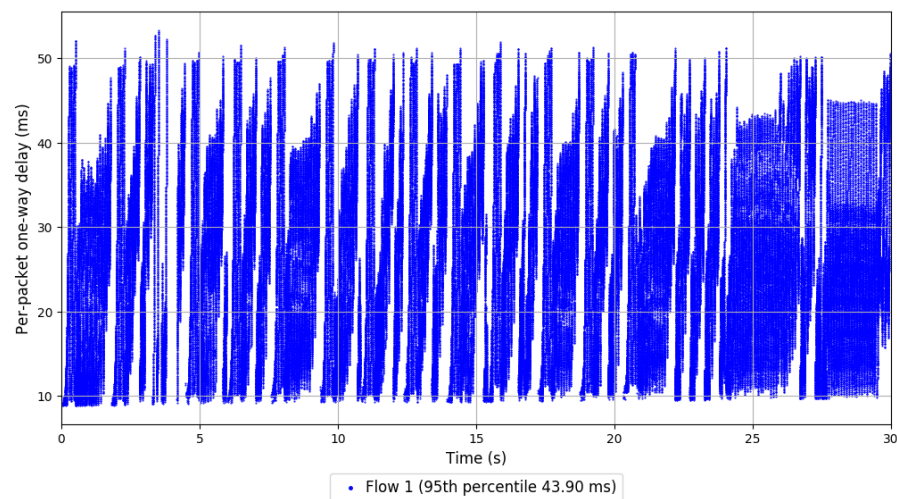
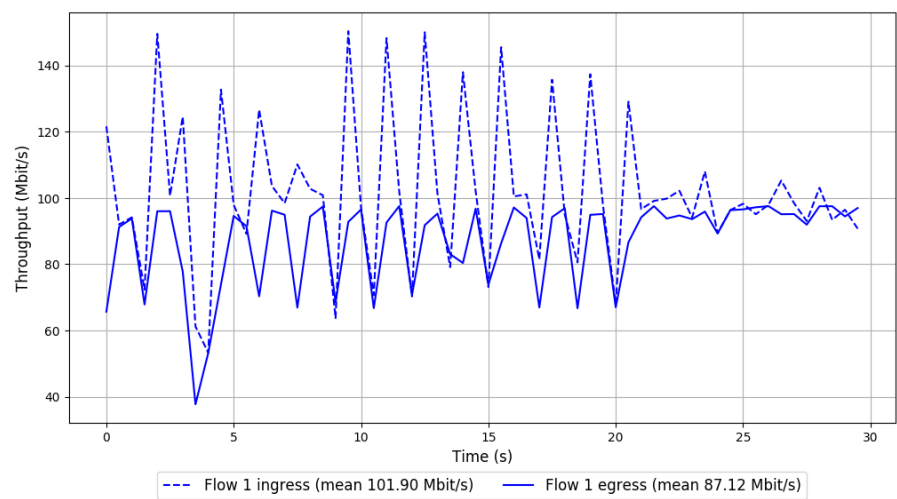


Run 10: Statistics of Verus

Start at: 2018-03-13 07:38:07
End at: 2018-03-13 07:38:37
Local clock offset: 4.067 ms
Remote clock offset: 14.701 ms

Below is generated by plot.py at 2018-03-13 08:38:13
Datalink statistics
-- Total of 1 flow:
Average throughput: 87.12 Mbit/s
95th percentile per-packet one-way delay: 43.896 ms
Loss rate: 14.40%
-- Flow 1:
Average throughput: 87.12 Mbit/s
95th percentile per-packet one-way delay: 43.896 ms
Loss rate: 14.40%

Run 10: Report of Verus — Data Link

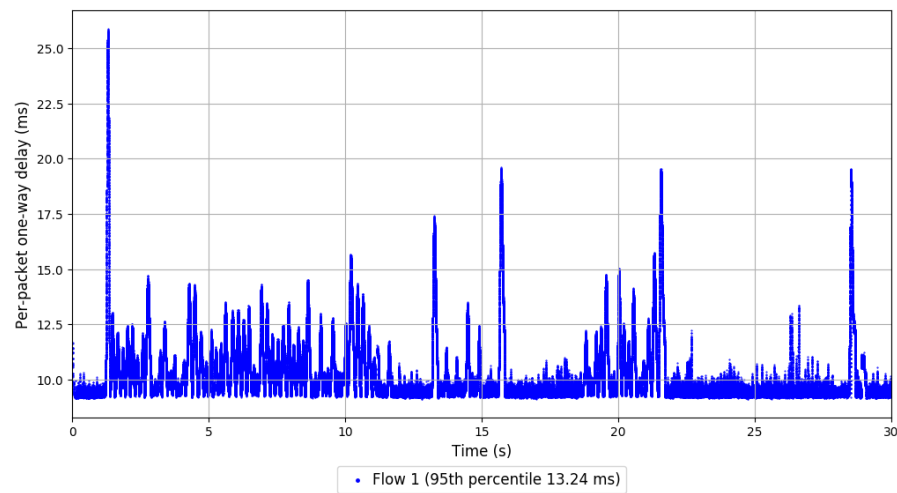
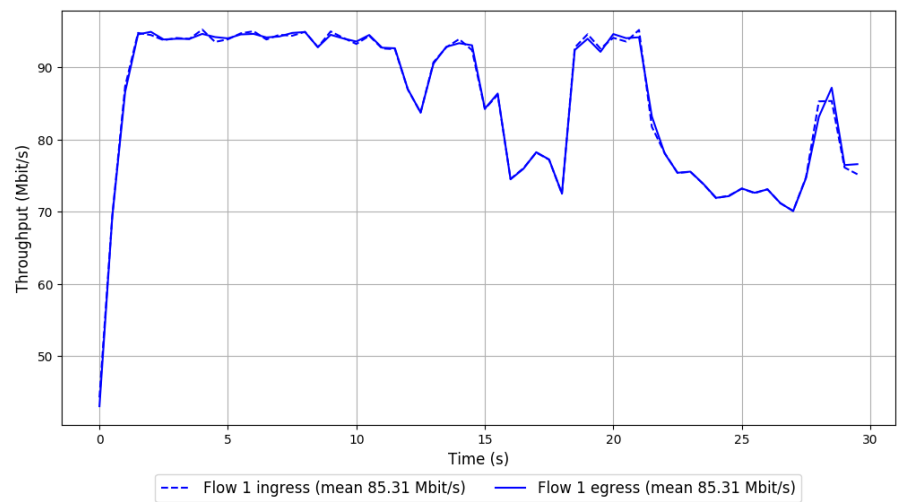


Run 1: Statistics of Copa

Start at: 2018-03-13 04:35:34
End at: 2018-03-13 04:36:04
Local clock offset: -0.184 ms
Remote clock offset: -5.118 ms

Below is generated by plot.py at 2018-03-13 08:39:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 85.31 Mbit/s
95th percentile per-packet one-way delay: 13.243 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 85.31 Mbit/s
95th percentile per-packet one-way delay: 13.243 ms
Loss rate: 0.00%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-03-13 04:56:47

End at: 2018-03-13 04:57:17

Local clock offset: 5.297 ms

Remote clock offset: 2.127 ms

Below is generated by plot.py at 2018-03-13 08:39:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.03 Mbit/s

95th percentile per-packet one-way delay: 13.282 ms

Loss rate: 0.00%

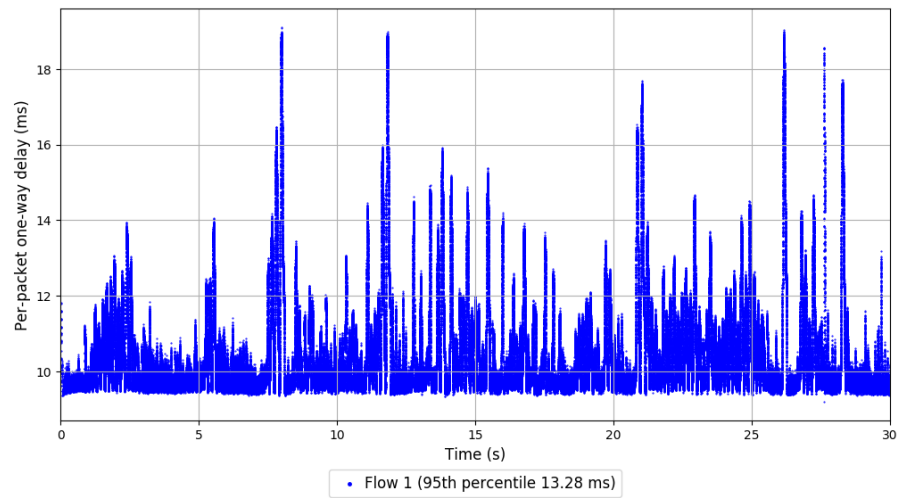
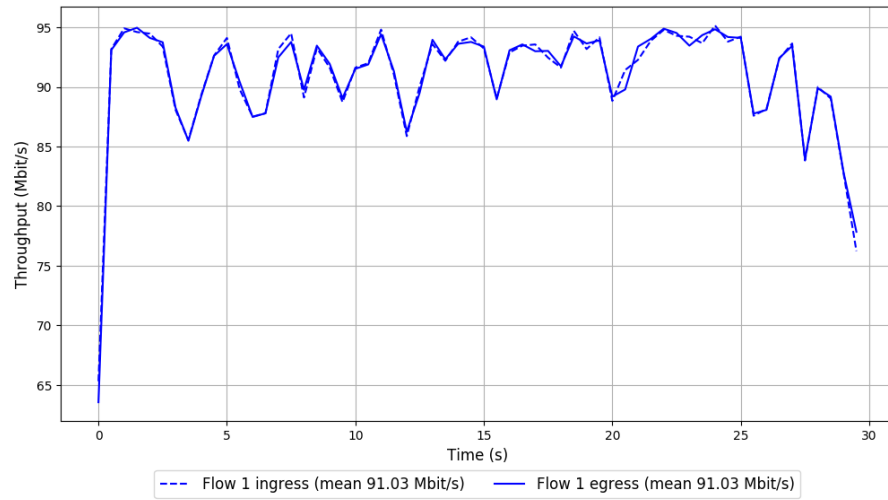
-- Flow 1:

Average throughput: 91.03 Mbit/s

95th percentile per-packet one-way delay: 13.282 ms

Loss rate: 0.00%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-03-13 05:18:01

End at: 2018-03-13 05:18:31

Local clock offset: 3.283 ms

Remote clock offset: 2.702 ms

Below is generated by plot.py at 2018-03-13 08:40:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.39 Mbit/s

95th percentile per-packet one-way delay: 14.491 ms

Loss rate: 0.00%

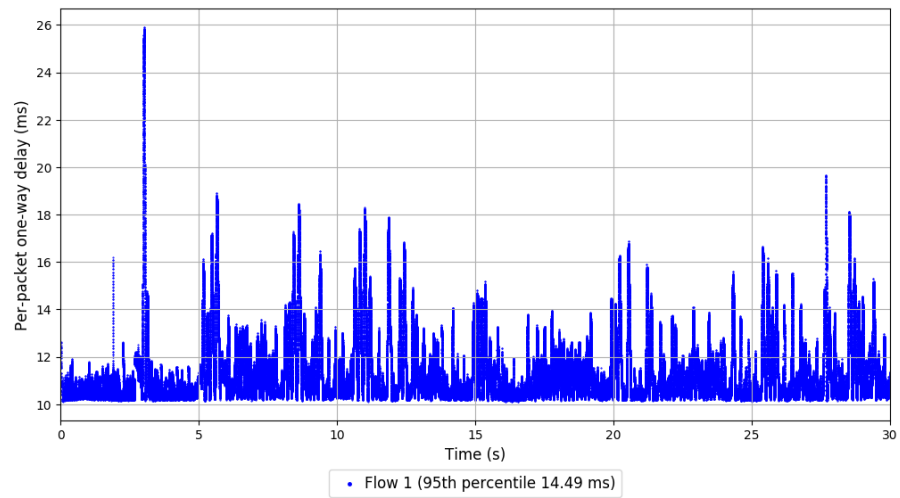
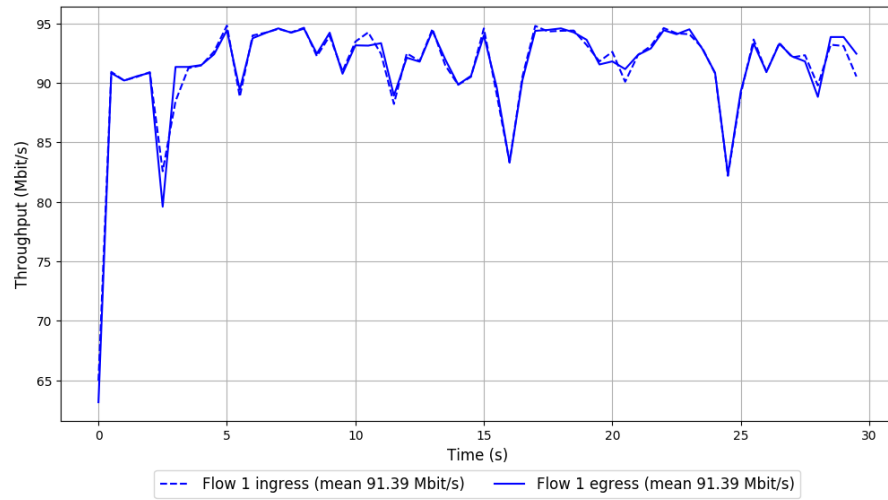
-- Flow 1:

Average throughput: 91.39 Mbit/s

95th percentile per-packet one-way delay: 14.491 ms

Loss rate: 0.00%

Run 3: Report of Copa — Data Link

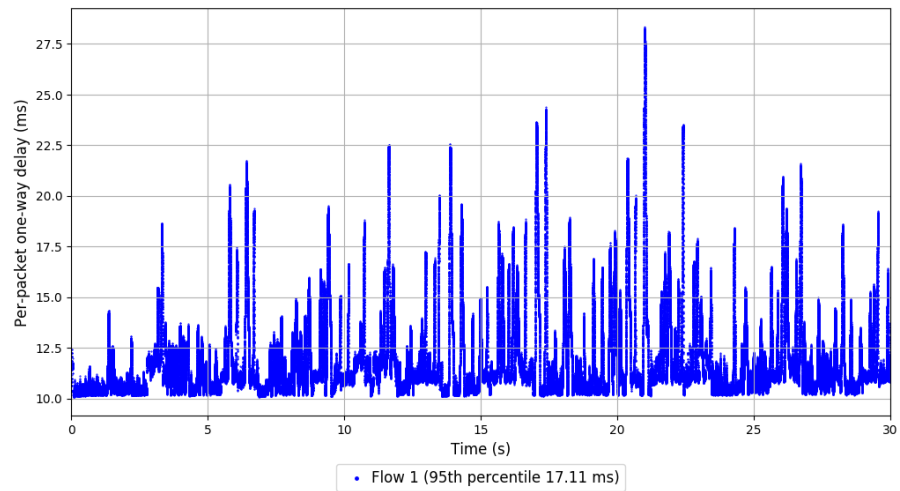
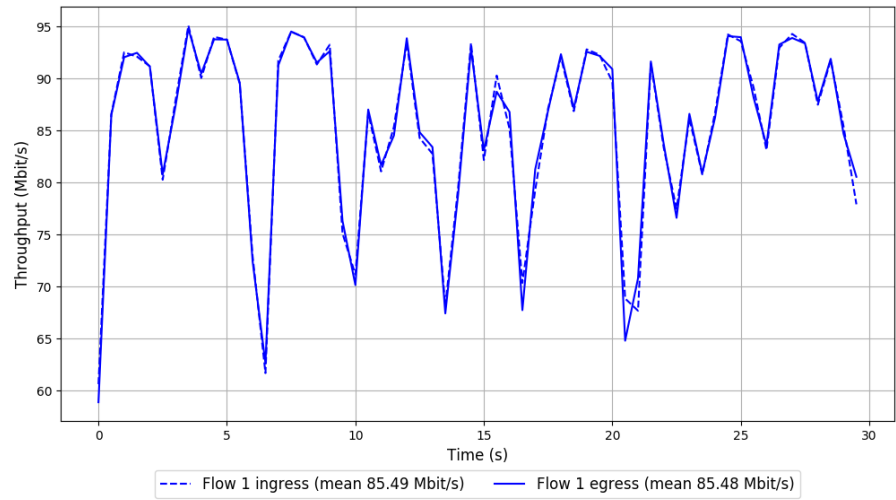


Run 4: Statistics of Copa

Start at: 2018-03-13 05:38:54
End at: 2018-03-13 05:39:24
Local clock offset: 3.25 ms
Remote clock offset: -6.164 ms

Below is generated by plot.py at 2018-03-13 08:40:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 85.48 Mbit/s
95th percentile per-packet one-way delay: 17.110 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 85.48 Mbit/s
95th percentile per-packet one-way delay: 17.110 ms
Loss rate: 0.00%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-03-13 05:59:51

End at: 2018-03-13 06:00:21

Local clock offset: 3.791 ms

Remote clock offset: -4.07 ms

Below is generated by plot.py at 2018-03-13 08:40:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.68 Mbit/s

95th percentile per-packet one-way delay: 13.636 ms

Loss rate: 0.00%

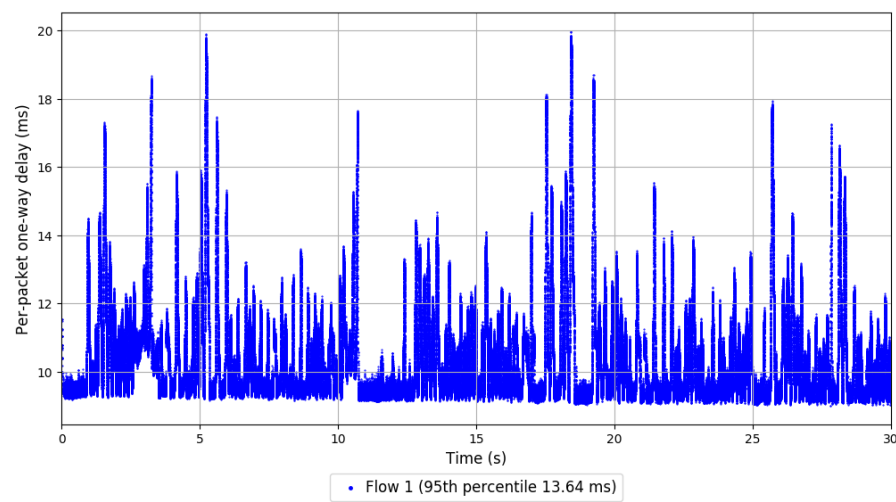
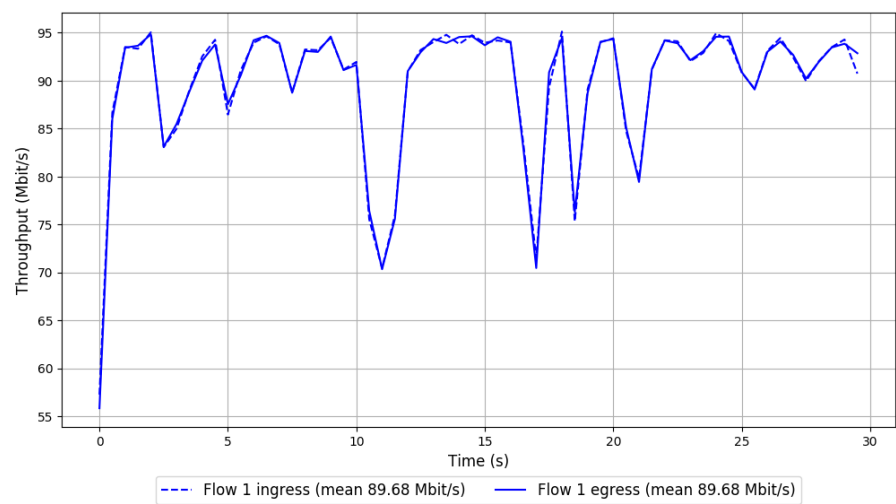
-- Flow 1:

Average throughput: 89.68 Mbit/s

95th percentile per-packet one-way delay: 13.636 ms

Loss rate: 0.00%

Run 5: Report of Copa — Data Link

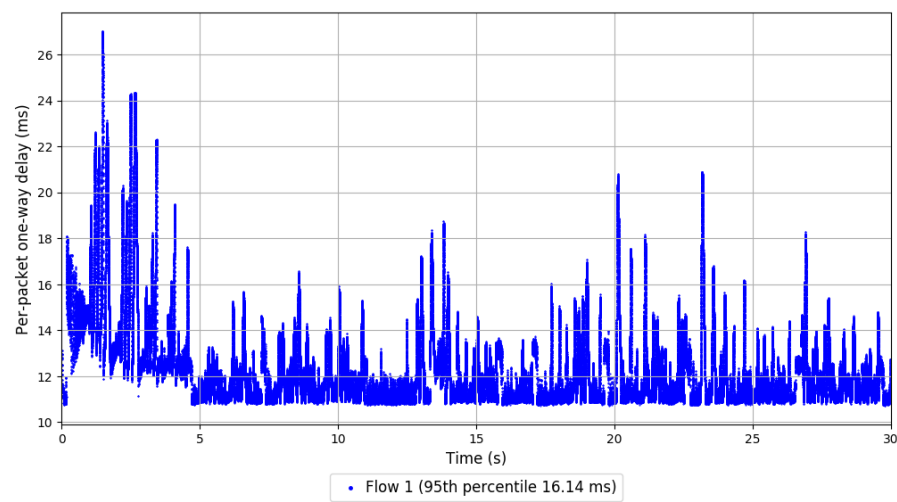
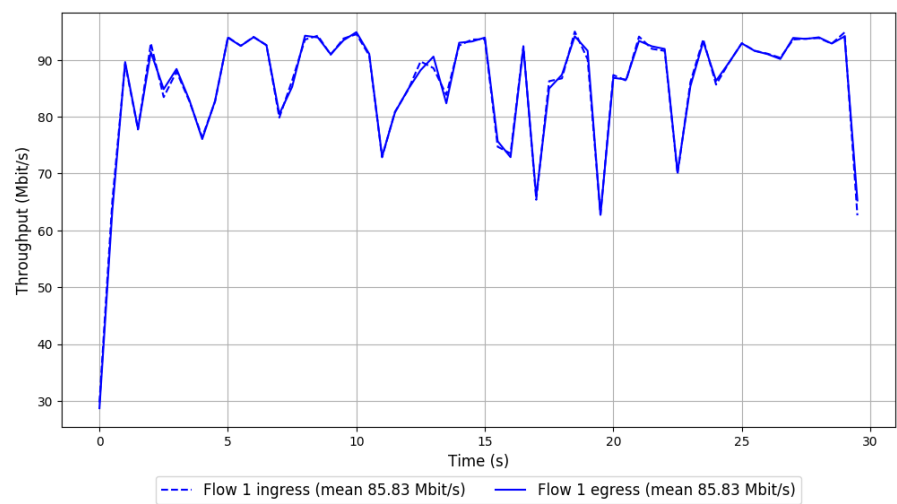


Run 6: Statistics of Copa

Start at: 2018-03-13 06:20:53
End at: 2018-03-13 06:21:23
Local clock offset: 3.298 ms
Remote clock offset: -0.462 ms

Below is generated by plot.py at 2018-03-13 08:40:21
Datalink statistics
-- Total of 1 flow:
Average throughput: 85.83 Mbit/s
95th percentile per-packet one-way delay: 16.145 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 85.83 Mbit/s
95th percentile per-packet one-way delay: 16.145 ms
Loss rate: 0.00%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-03-13 06:42:09

End at: 2018-03-13 06:42:39

Local clock offset: 5.412 ms

Remote clock offset: 1.18 ms

Below is generated by plot.py at 2018-03-13 08:40:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.73 Mbit/s

95th percentile per-packet one-way delay: 14.561 ms

Loss rate: 0.00%

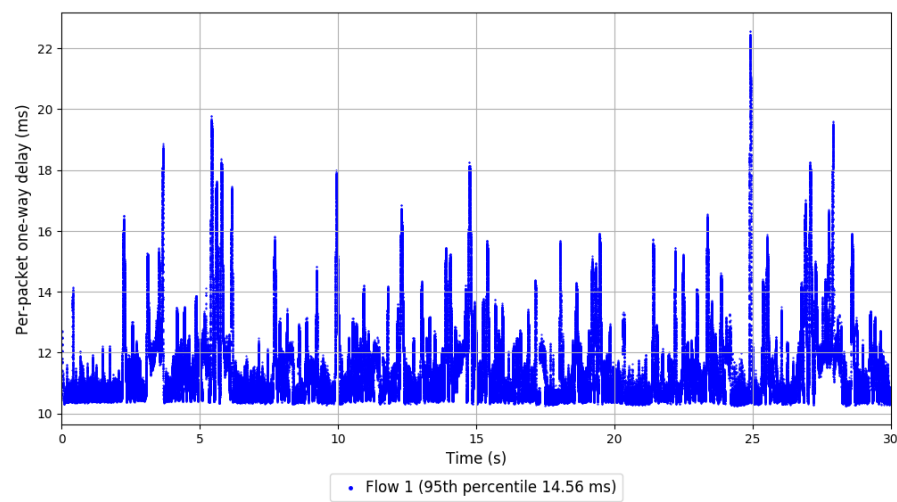
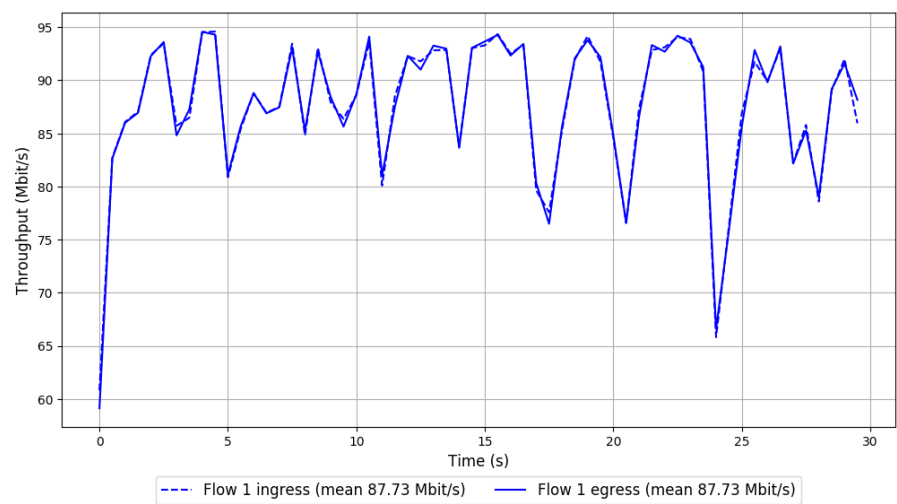
-- Flow 1:

Average throughput: 87.73 Mbit/s

95th percentile per-packet one-way delay: 14.561 ms

Loss rate: 0.00%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-03-13 07:03:26

End at: 2018-03-13 07:03:56

Local clock offset: 1.023 ms

Remote clock offset: -1.07 ms

Below is generated by plot.py at 2018-03-13 08:40:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.02 Mbit/s

95th percentile per-packet one-way delay: 12.158 ms

Loss rate: 0.00%

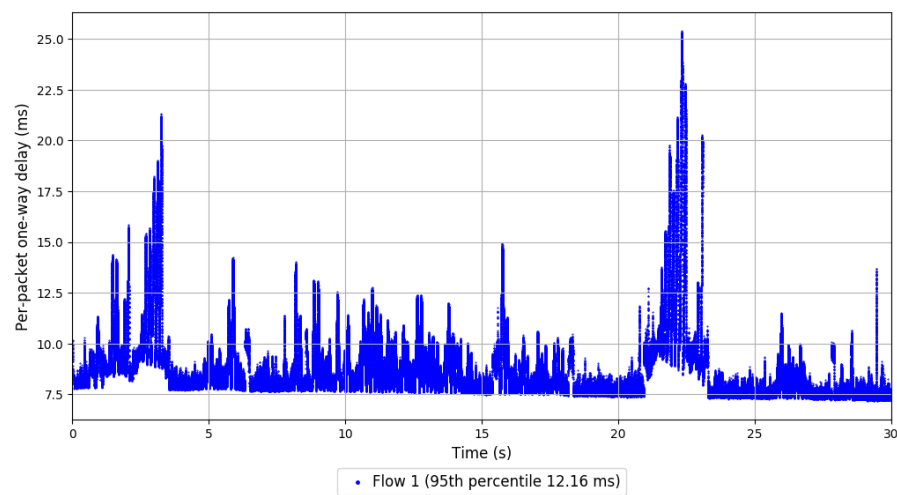
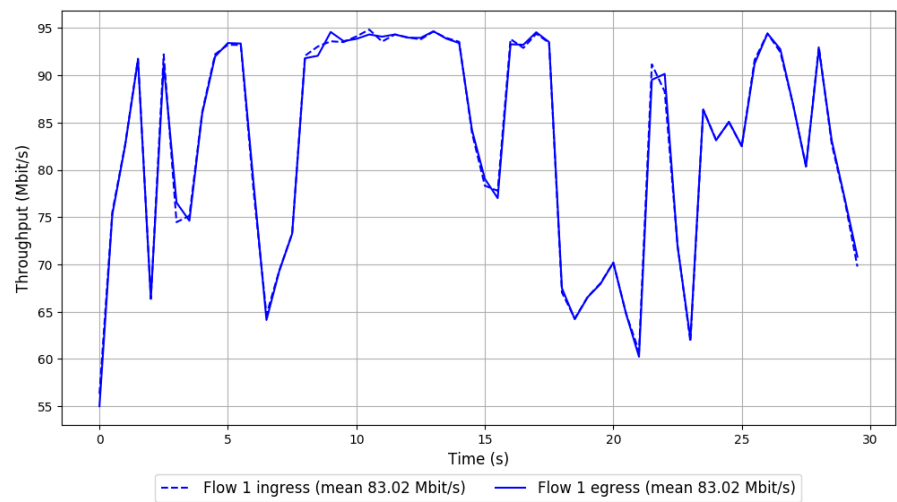
-- Flow 1:

Average throughput: 83.02 Mbit/s

95th percentile per-packet one-way delay: 12.158 ms

Loss rate: 0.00%

Run 8: Report of Copa — Data Link

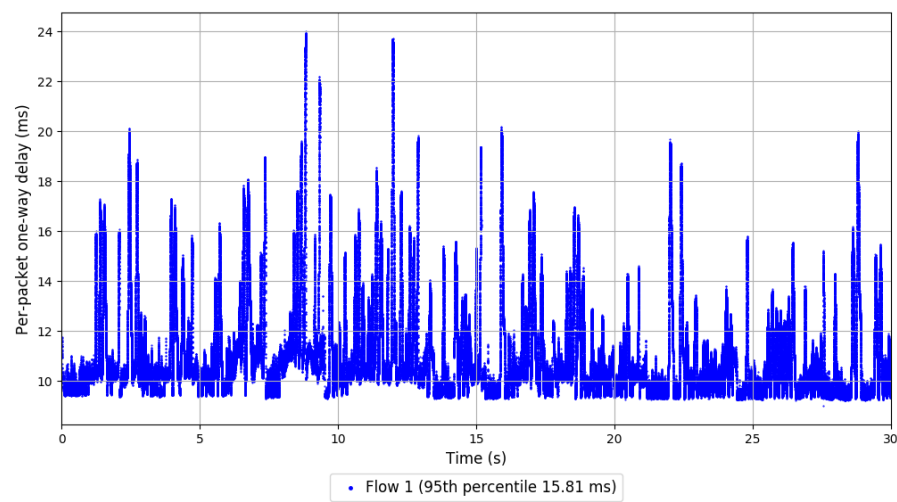
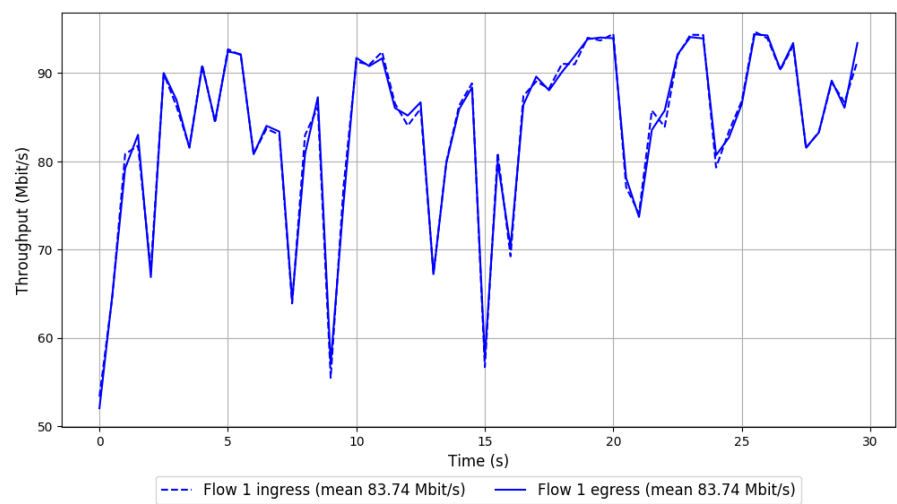


Run 9: Statistics of Copa

Start at: 2018-03-13 07:24:13
End at: 2018-03-13 07:24:43
Local clock offset: 4.206 ms
Remote clock offset: 16.974 ms

Below is generated by plot.py at 2018-03-13 08:41:59
Datalink statistics
-- Total of 1 flow:
Average throughput: 83.74 Mbit/s
95th percentile per-packet one-way delay: 15.814 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 83.74 Mbit/s
95th percentile per-packet one-way delay: 15.814 ms
Loss rate: 0.00%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-03-13 07:45:01

End at: 2018-03-13 07:45:31

Local clock offset: 2.856 ms

Remote clock offset: 6.15 ms

Below is generated by plot.py at 2018-03-13 08:41:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.77 Mbit/s

95th percentile per-packet one-way delay: 20.105 ms

Loss rate: 0.00%

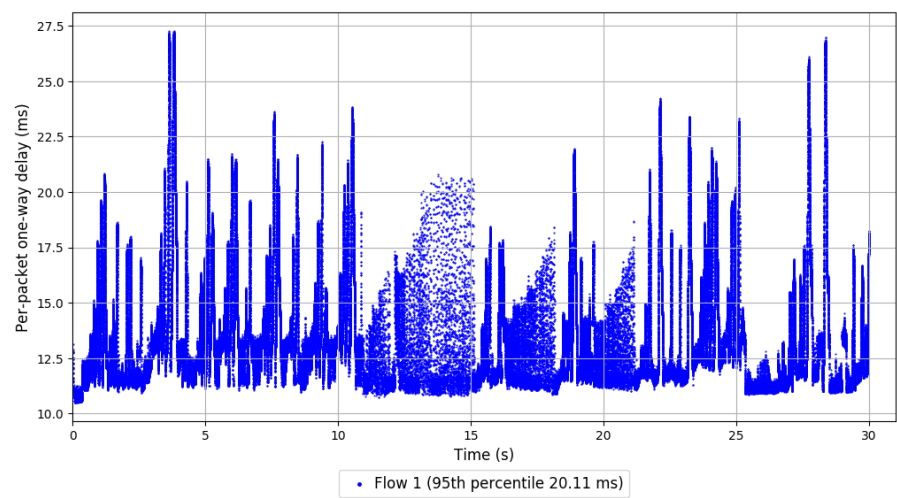
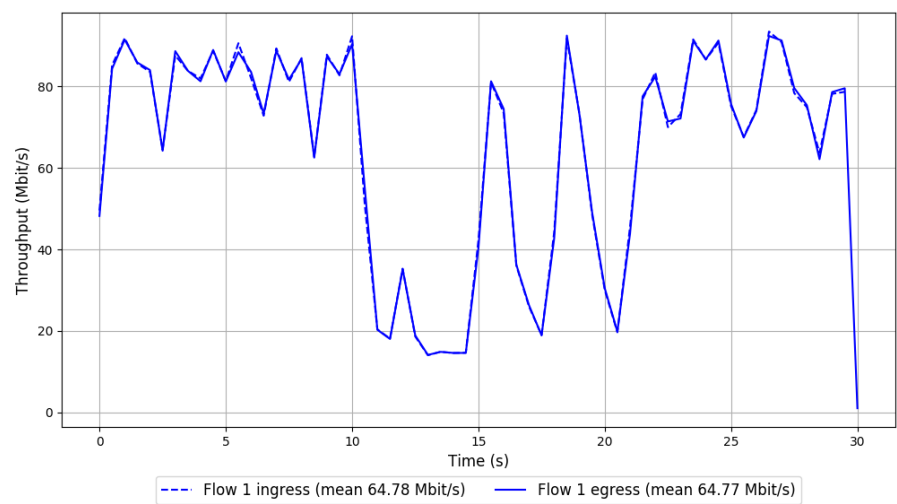
-- Flow 1:

Average throughput: 64.77 Mbit/s

95th percentile per-packet one-way delay: 20.105 ms

Loss rate: 0.00%

Run 10: Report of Copa — Data Link

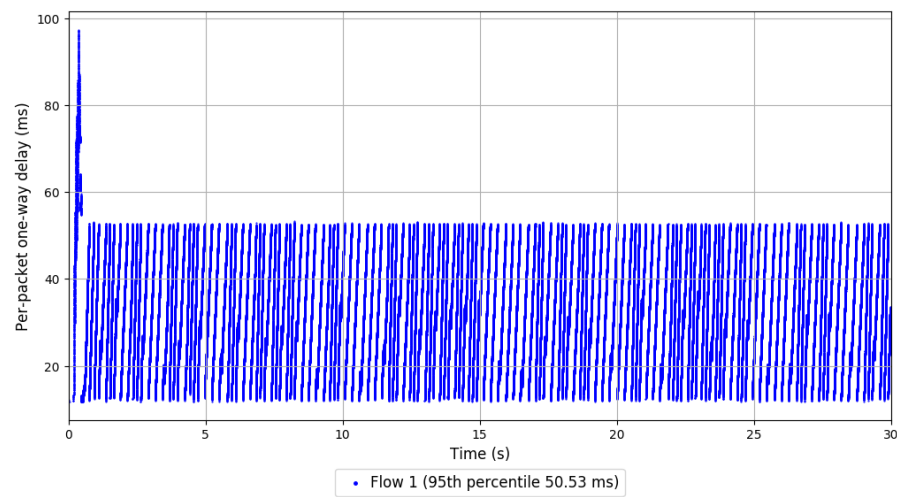
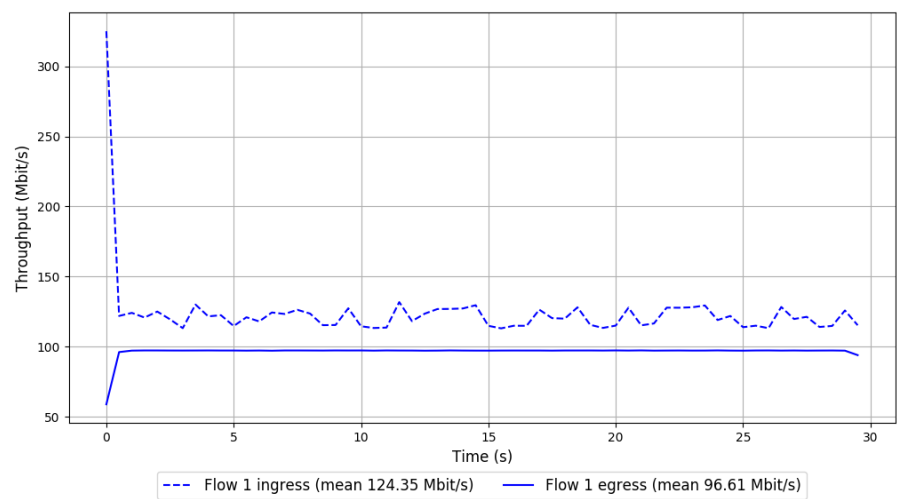


Run 1: Statistics of FillP

Start at: 2018-03-13 04:27:26
End at: 2018-03-13 04:27:56
Local clock offset: 2.279 ms
Remote clock offset: -0.283 ms

Below is generated by plot.py at 2018-03-13 08:41:59
Datalink statistics
-- Total of 1 flow:
Average throughput: 96.61 Mbit/s
95th percentile per-packet one-way delay: 50.532 ms
Loss rate: 22.26%
-- Flow 1:
Average throughput: 96.61 Mbit/s
95th percentile per-packet one-way delay: 50.532 ms
Loss rate: 22.26%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-03-13 04:48:29

End at: 2018-03-13 04:48:59

Local clock offset: 4.6 ms

Remote clock offset: 0.032 ms

Below is generated by plot.py at 2018-03-13 08:41:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.69 Mbit/s

95th percentile per-packet one-way delay: 47.572 ms

Loss rate: 23.69%

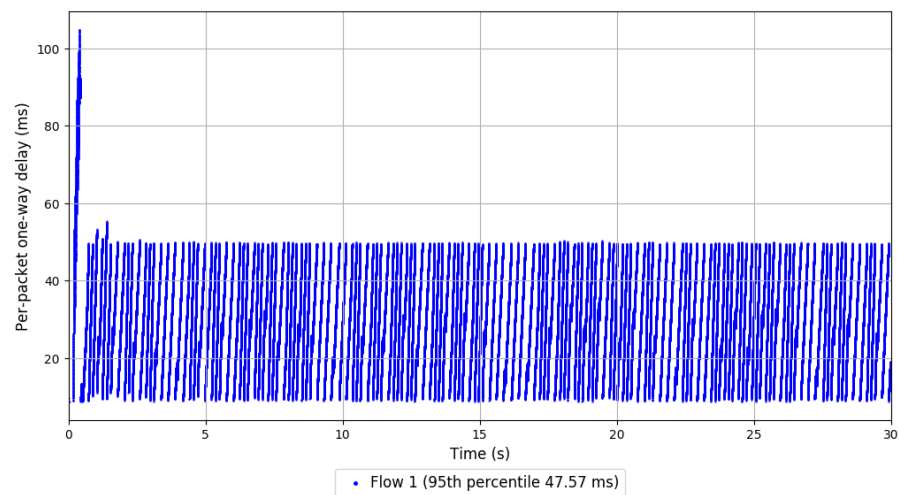
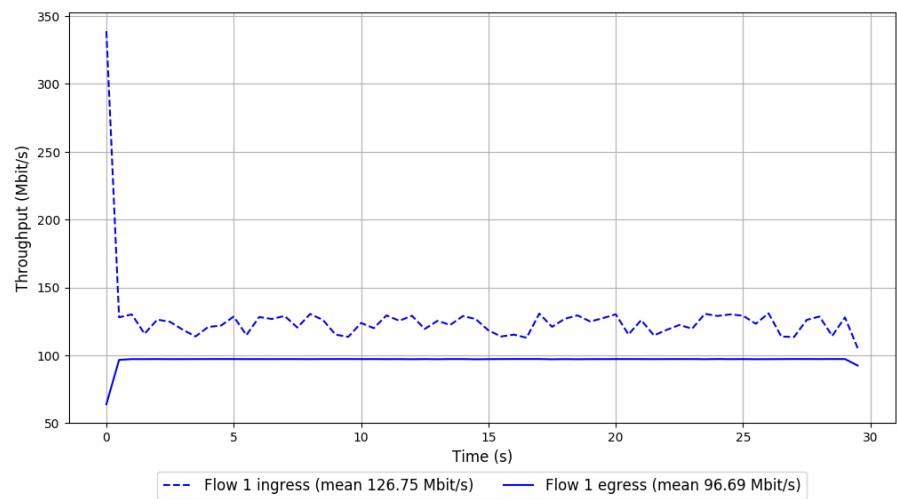
-- Flow 1:

Average throughput: 96.69 Mbit/s

95th percentile per-packet one-way delay: 47.572 ms

Loss rate: 23.69%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-03-13 05:09:50

End at: 2018-03-13 05:10:20

Local clock offset: 1.67 ms

Remote clock offset: 2.096 ms

Below is generated by plot.py at 2018-03-13 08:42:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.69 Mbit/s

95th percentile per-packet one-way delay: 50.612 ms

Loss rate: 23.77%

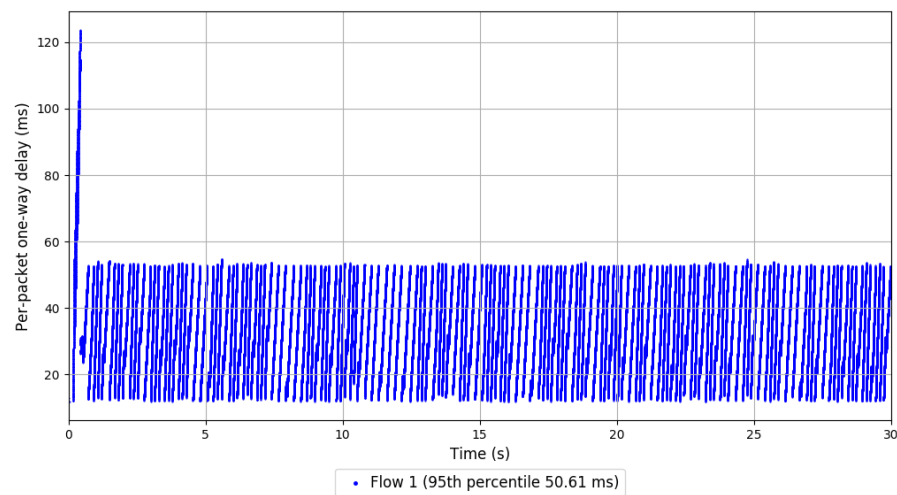
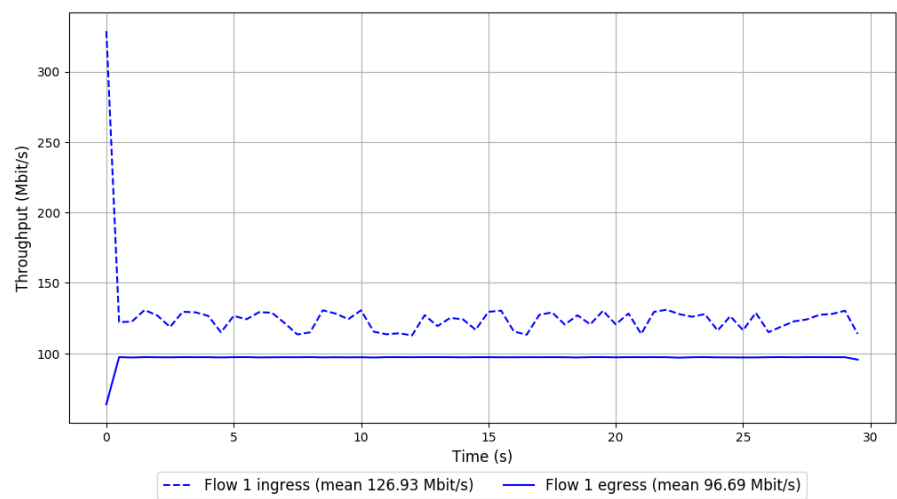
-- Flow 1:

Average throughput: 96.69 Mbit/s

95th percentile per-packet one-way delay: 50.612 ms

Loss rate: 23.77%

Run 3: Report of FillP — Data Link

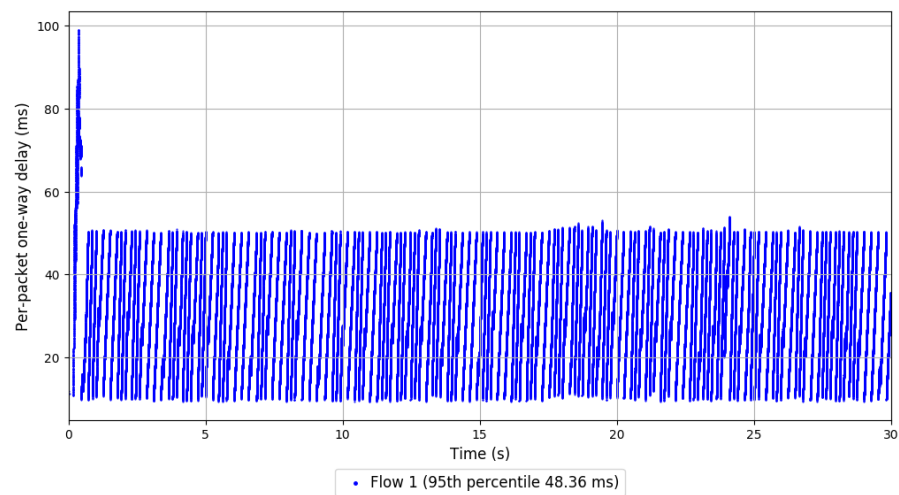
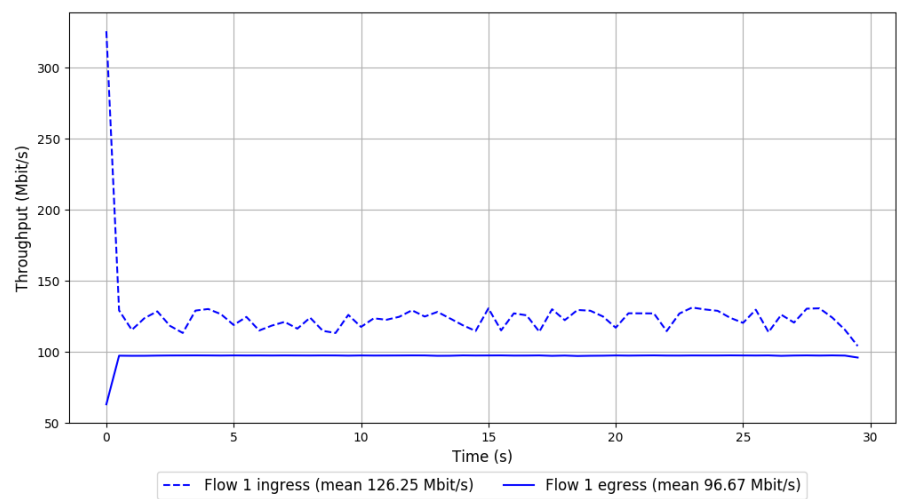


Run 4: Statistics of FillP

Start at: 2018-03-13 05:30:54
End at: 2018-03-13 05:31:24
Local clock offset: 3.718 ms
Remote clock offset: -4.613 ms

Below is generated by plot.py at 2018-03-13 08:42:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 96.67 Mbit/s
95th percentile per-packet one-way delay: 48.357 ms
Loss rate: 23.37%
-- Flow 1:
Average throughput: 96.67 Mbit/s
95th percentile per-packet one-way delay: 48.357 ms
Loss rate: 23.37%

Run 4: Report of FillP — Data Link

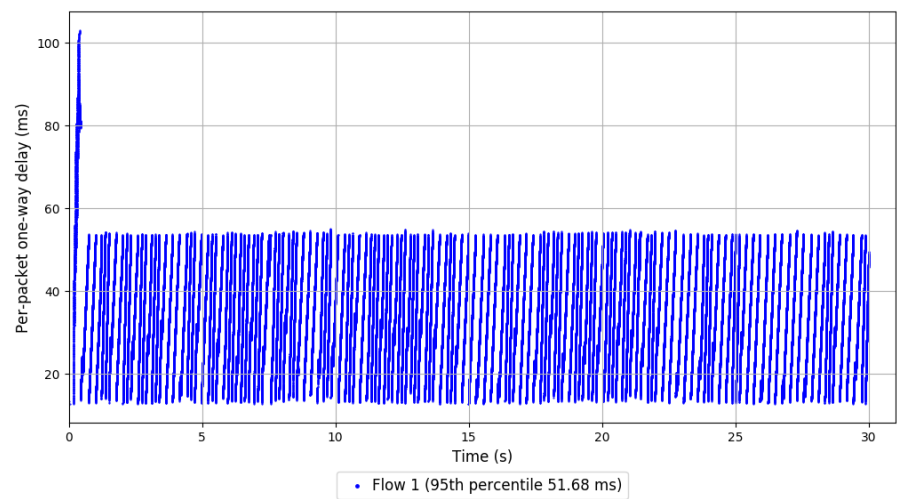
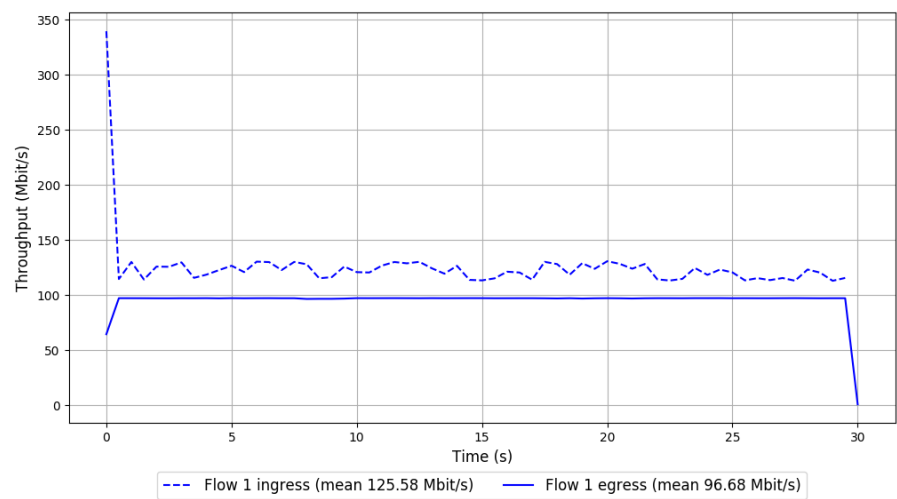


Run 5: Statistics of FillP

Start at: 2018-03-13 05:51:45
End at: 2018-03-13 05:52:15
Local clock offset: -0.09 ms
Remote clock offset: -8.608 ms

Below is generated by plot.py at 2018-03-13 08:42:13
Datalink statistics
-- Total of 1 flow:
Average throughput: 96.68 Mbit/s
95th percentile per-packet one-way delay: 51.683 ms
Loss rate: 22.92%
-- Flow 1:
Average throughput: 96.68 Mbit/s
95th percentile per-packet one-way delay: 51.683 ms
Loss rate: 22.92%

Run 5: Report of FillP — Data Link

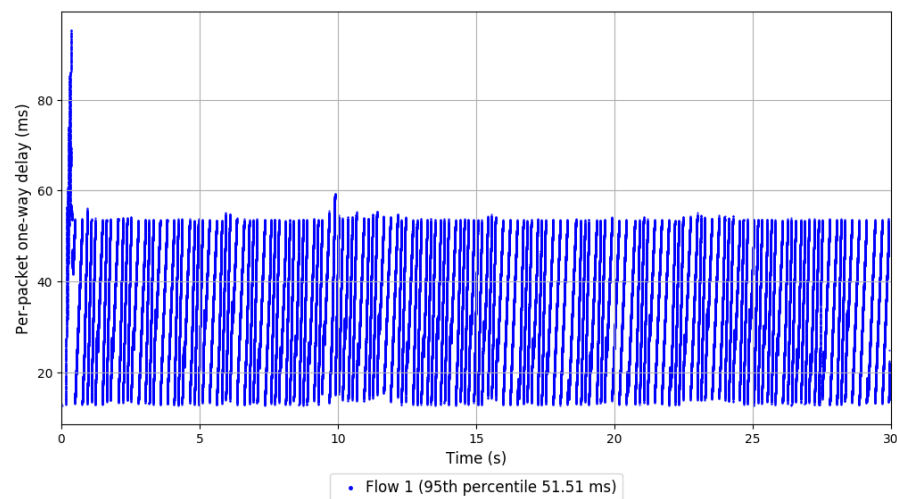
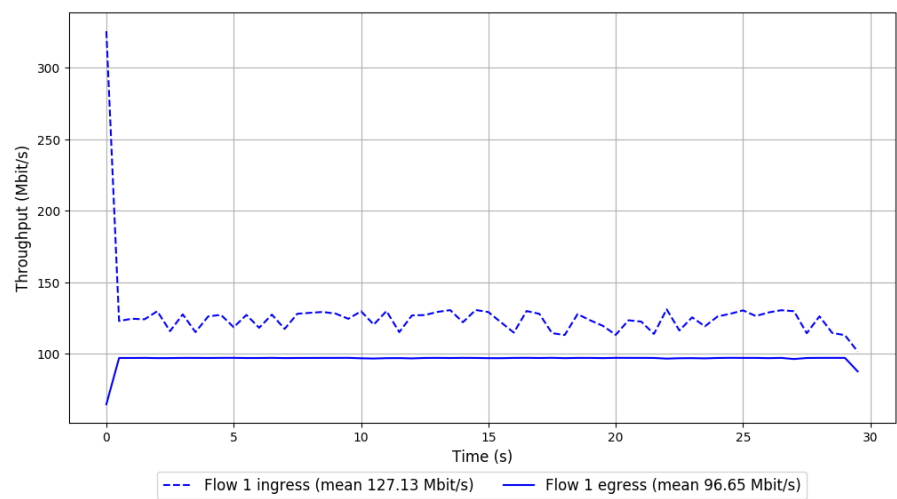


Run 6: Statistics of FillP

Start at: 2018-03-13 06:12:45
End at: 2018-03-13 06:13:15
Local clock offset: 1.487 ms
Remote clock offset: -0.492 ms

Below is generated by plot.py at 2018-03-13 08:42:15
Datalink statistics
-- Total of 1 flow:
Average throughput: 96.65 Mbit/s
95th percentile per-packet one-way delay: 51.511 ms
Loss rate: 23.95%
-- Flow 1:
Average throughput: 96.65 Mbit/s
95th percentile per-packet one-way delay: 51.511 ms
Loss rate: 23.95%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-03-13 06:33:52

End at: 2018-03-13 06:34:22

Local clock offset: 5.928 ms

Remote clock offset: 1.342 ms

Below is generated by plot.py at 2018-03-13 08:43:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.56 Mbit/s

95th percentile per-packet one-way delay: 49.514 ms

Loss rate: 22.70%

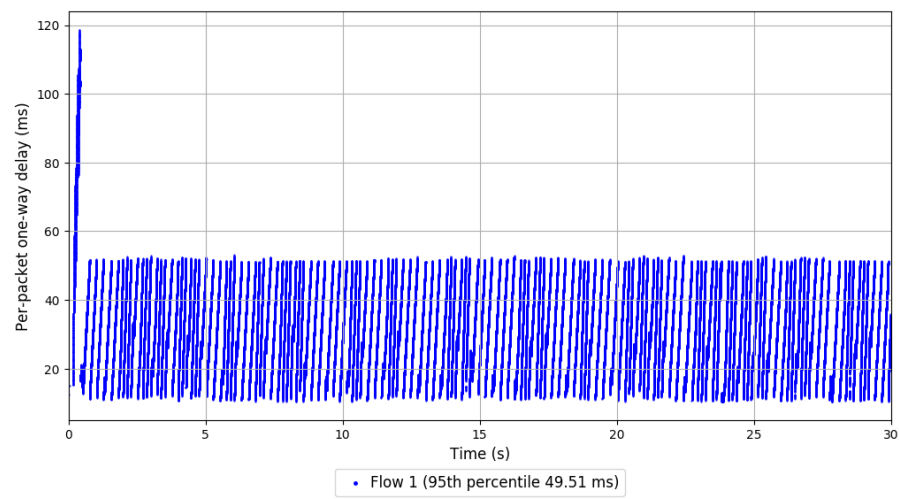
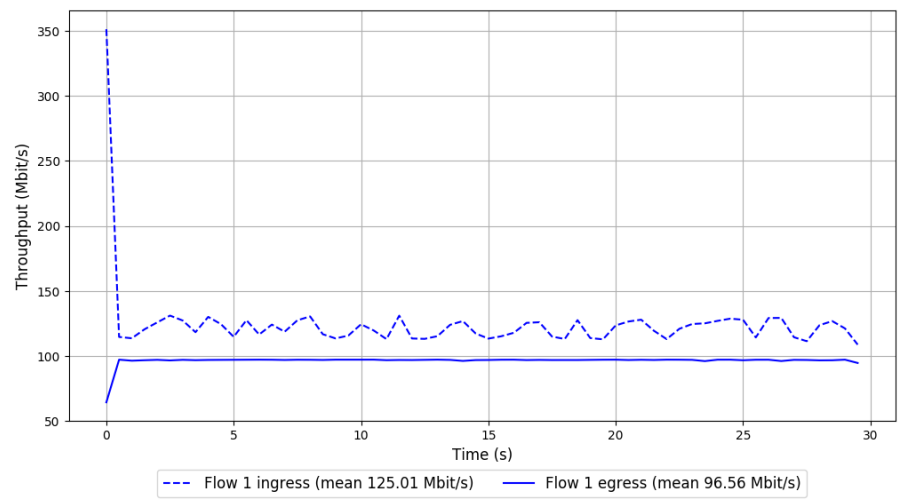
-- Flow 1:

Average throughput: 96.56 Mbit/s

95th percentile per-packet one-way delay: 49.514 ms

Loss rate: 22.70%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-03-13 06:55:19

End at: 2018-03-13 06:55:49

Local clock offset: 2.535 ms

Remote clock offset: 0.75 ms

Below is generated by plot.py at 2018-03-13 08:43:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.68 Mbit/s

95th percentile per-packet one-way delay: 50.311 ms

Loss rate: 21.80%

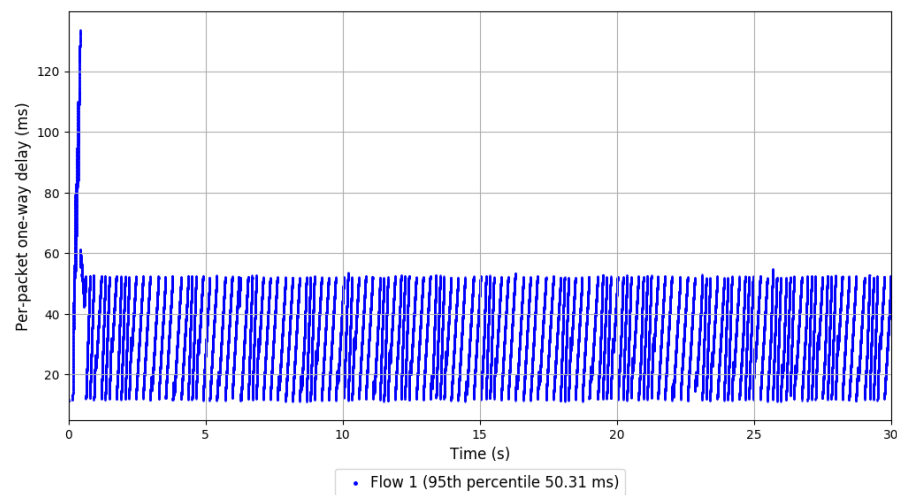
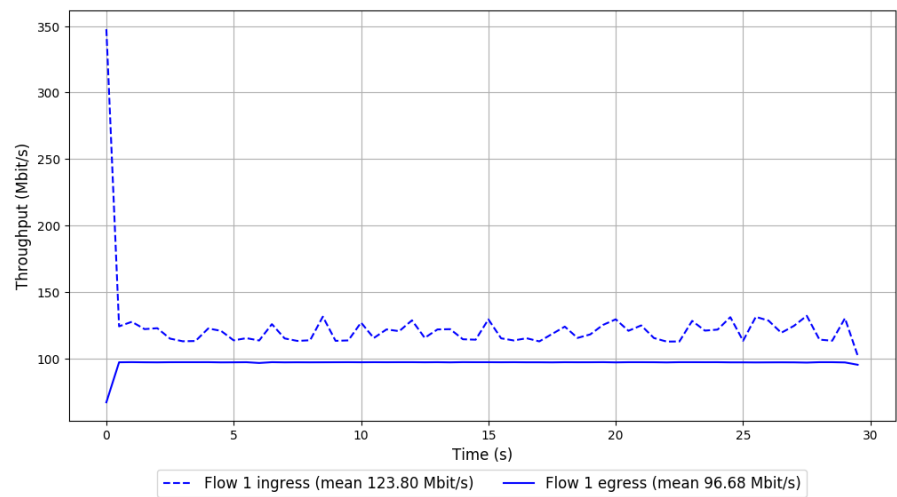
-- Flow 1:

Average throughput: 96.68 Mbit/s

95th percentile per-packet one-way delay: 50.311 ms

Loss rate: 21.80%

Run 8: Report of FillP — Data Link

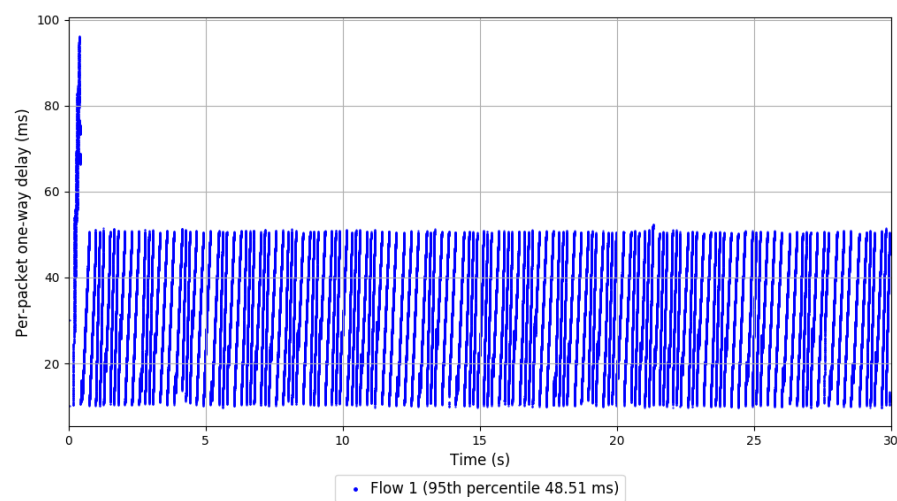
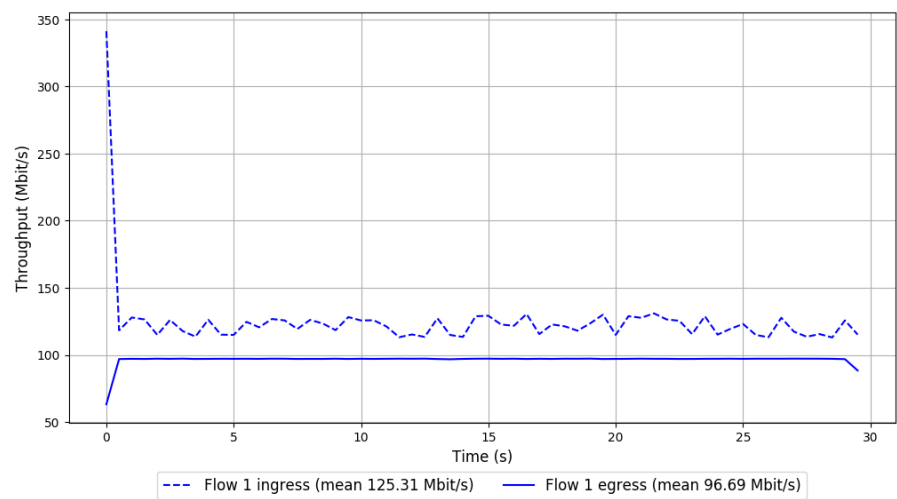


Run 9: Statistics of FillP

Start at: 2018-03-13 07:16:16
End at: 2018-03-13 07:16:46
Local clock offset: 1.938 ms
Remote clock offset: 11.328 ms

Below is generated by plot.py at 2018-03-13 08:43:33
Datalink statistics
-- Total of 1 flow:
Average throughput: 96.69 Mbit/s
95th percentile per-packet one-way delay: 48.507 ms
Loss rate: 22.88%
-- Flow 1:
Average throughput: 96.69 Mbit/s
95th percentile per-packet one-way delay: 48.507 ms
Loss rate: 22.88%

Run 9: Report of FillP — Data Link

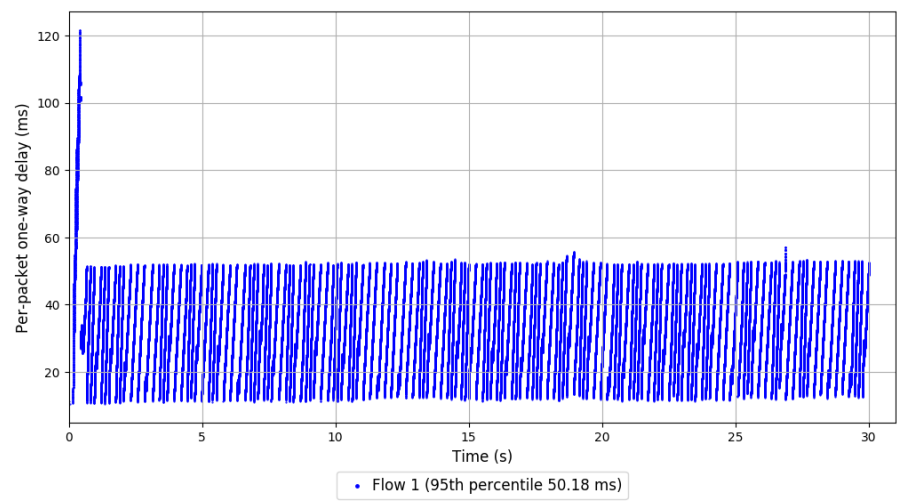
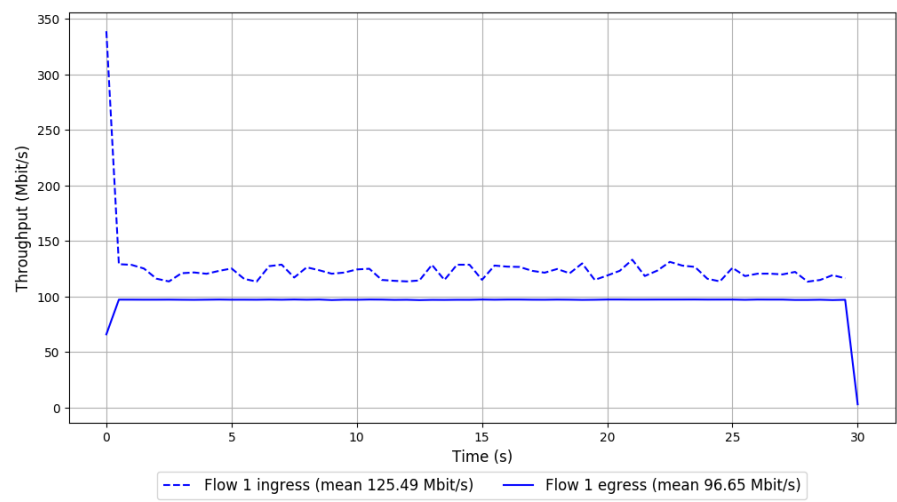


Run 10: Statistics of FillP

Start at: 2018-03-13 07:36:59
End at: 2018-03-13 07:37:29
Local clock offset: 2.87 ms
Remote clock offset: 17.274 ms

Below is generated by plot.py at 2018-03-13 08:43:41
Datalink statistics
-- Total of 1 flow:
Average throughput: 96.65 Mbit/s
95th percentile per-packet one-way delay: 50.176 ms
Loss rate: 22.87%
-- Flow 1:
Average throughput: 96.65 Mbit/s
95th percentile per-packet one-way delay: 50.176 ms
Loss rate: 22.87%

Run 10: Report of FillP — Data Link



Run 1: Statistics of Indigo-1-32

Start at: 2018-03-13 04:20:14

End at: 2018-03-13 04:20:44

Local clock offset: 3.97 ms

Remote clock offset: -0.33 ms

Below is generated by plot.py at 2018-03-13 08:43:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.53 Mbit/s

95th percentile per-packet one-way delay: 16.638 ms

Loss rate: 0.00%

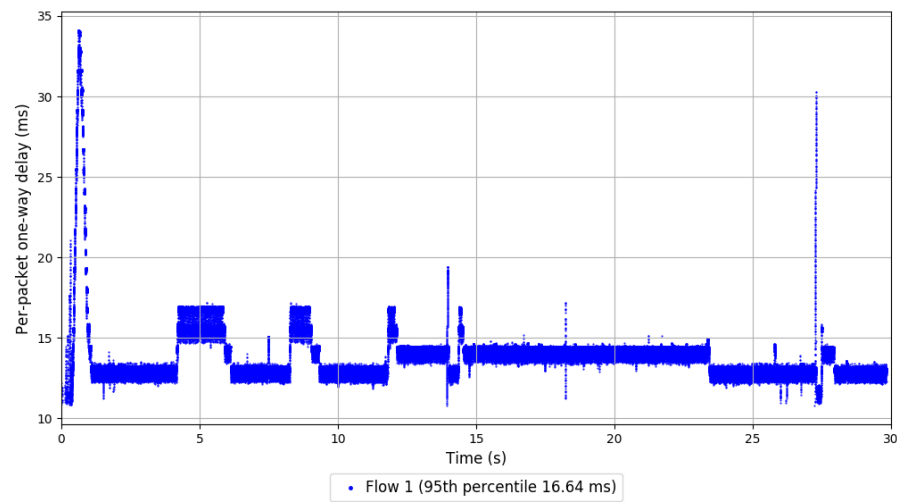
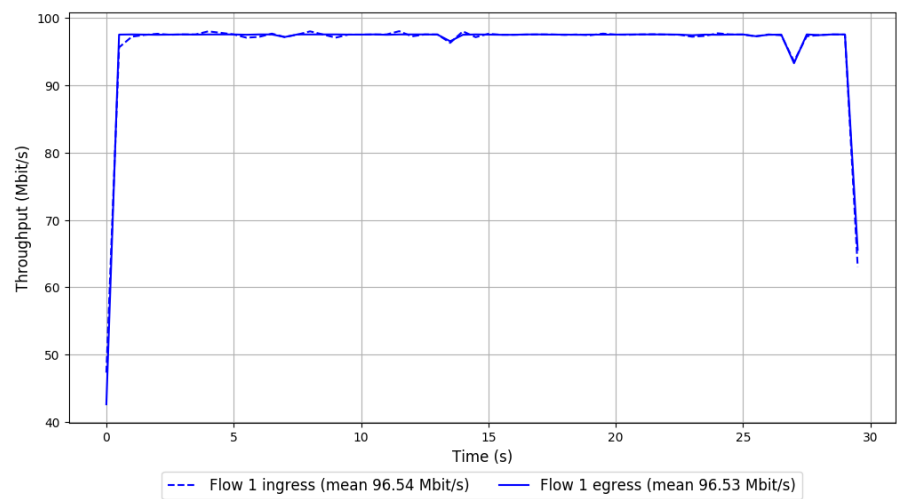
-- Flow 1:

Average throughput: 96.53 Mbit/s

95th percentile per-packet one-way delay: 16.638 ms

Loss rate: 0.00%

Run 1: Report of Indigo-1-32 — Data Link



Run 2: Statistics of Indigo-1-32

Start at: 2018-03-13 04:41:31

End at: 2018-03-13 04:42:01

Local clock offset: 4.582 ms

Remote clock offset: 0.487 ms

Below is generated by plot.py at 2018-03-13 08:43:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.11 Mbit/s

95th percentile per-packet one-way delay: 11.819 ms

Loss rate: 0.00%

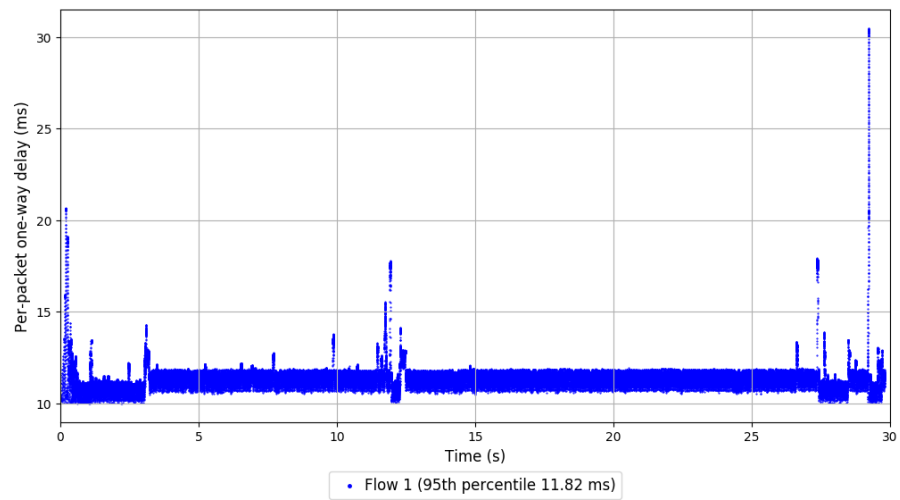
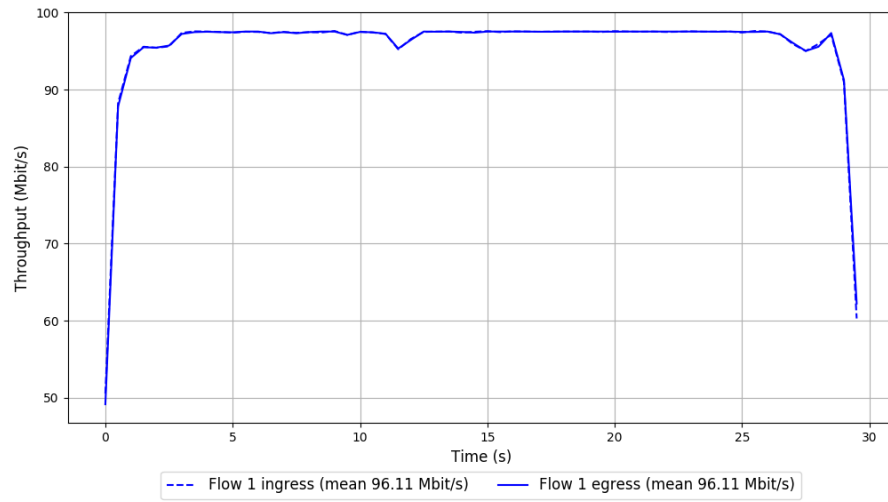
-- Flow 1:

Average throughput: 96.11 Mbit/s

95th percentile per-packet one-way delay: 11.819 ms

Loss rate: 0.00%

Run 2: Report of Indigo-1-32 — Data Link



Run 3: Statistics of Indigo-1-32

Start at: 2018-03-13 05:02:54

End at: 2018-03-13 05:03:24

Local clock offset: 4.096 ms

Remote clock offset: 2.118 ms

Below is generated by plot.py at 2018-03-13 08:43:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.82 Mbit/s

95th percentile per-packet one-way delay: 12.685 ms

Loss rate: 0.00%

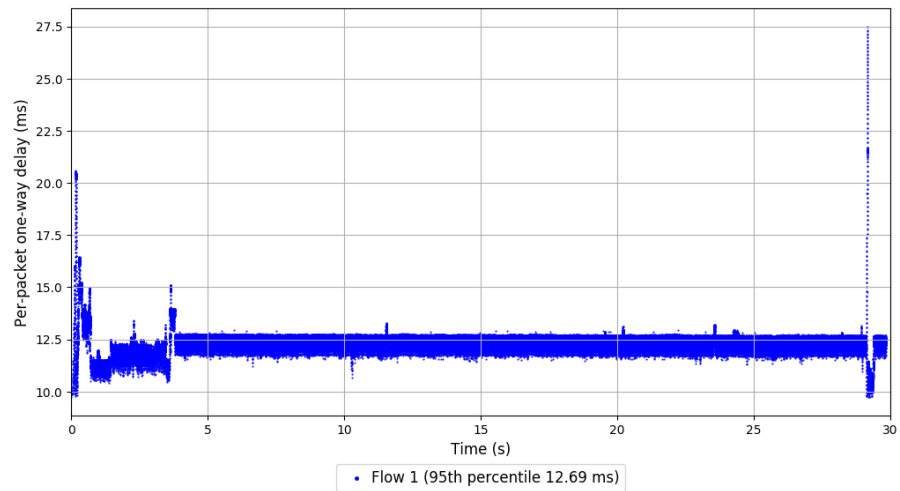
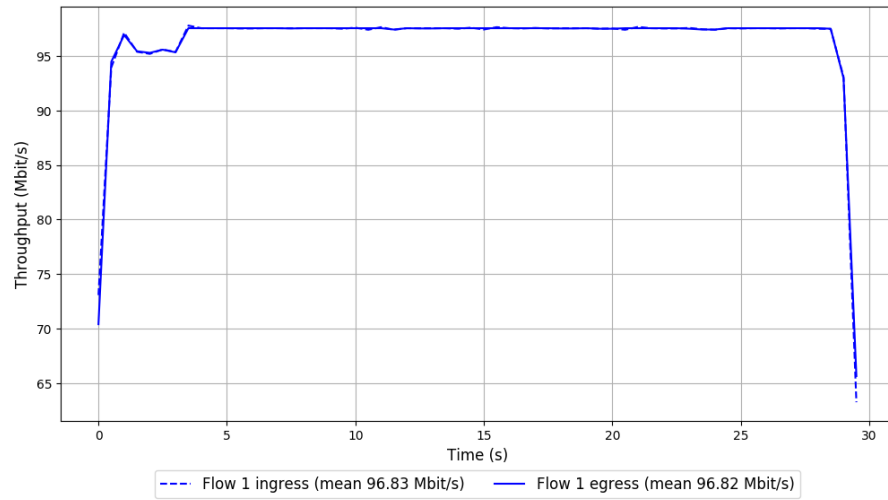
-- Flow 1:

Average throughput: 96.82 Mbit/s

95th percentile per-packet one-way delay: 12.685 ms

Loss rate: 0.00%

Run 3: Report of Indigo-1-32 — Data Link

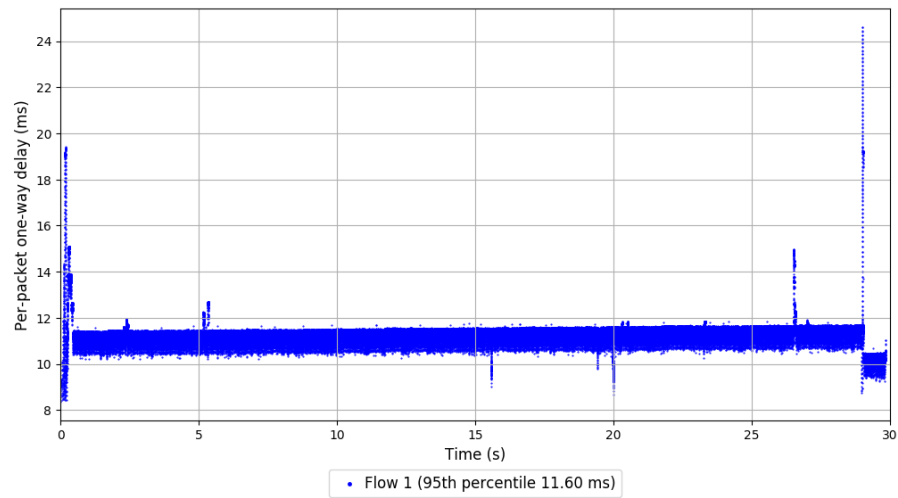
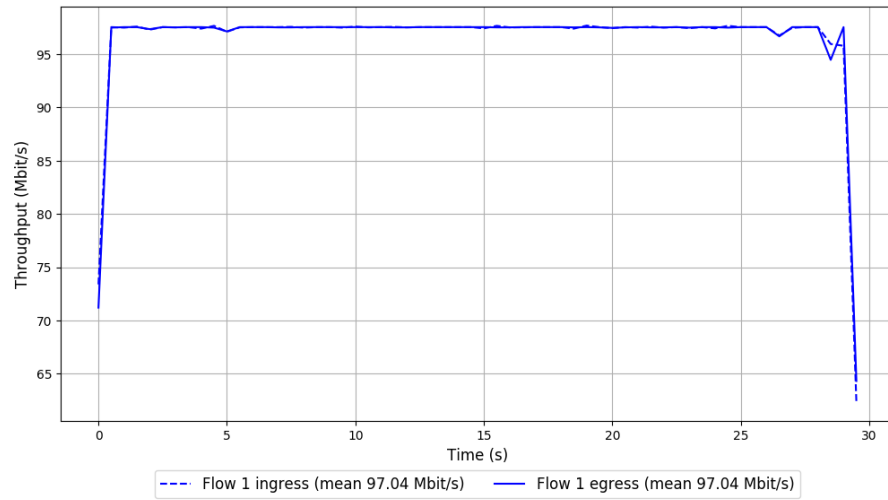


Run 4: Statistics of Indigo-1-32

Start at: 2018-03-13 05:23:59
End at: 2018-03-13 05:24:29
Local clock offset: 5.005 ms
Remote clock offset: -1.093 ms

Below is generated by plot.py at 2018-03-13 08:43:43
Datalink statistics
-- Total of 1 flow:
Average throughput: 97.04 Mbit/s
95th percentile per-packet one-way delay: 11.599 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 97.04 Mbit/s
95th percentile per-packet one-way delay: 11.599 ms
Loss rate: 0.00%

Run 4: Report of Indigo-1-32 — Data Link



Run 5: Statistics of Indigo-1-32

Start at: 2018-03-13 05:44:52

End at: 2018-03-13 05:45:22

Local clock offset: 1.526 ms

Remote clock offset: -7.014 ms

Below is generated by plot.py at 2018-03-13 08:44:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.01 Mbit/s

95th percentile per-packet one-way delay: 15.952 ms

Loss rate: 0.00%

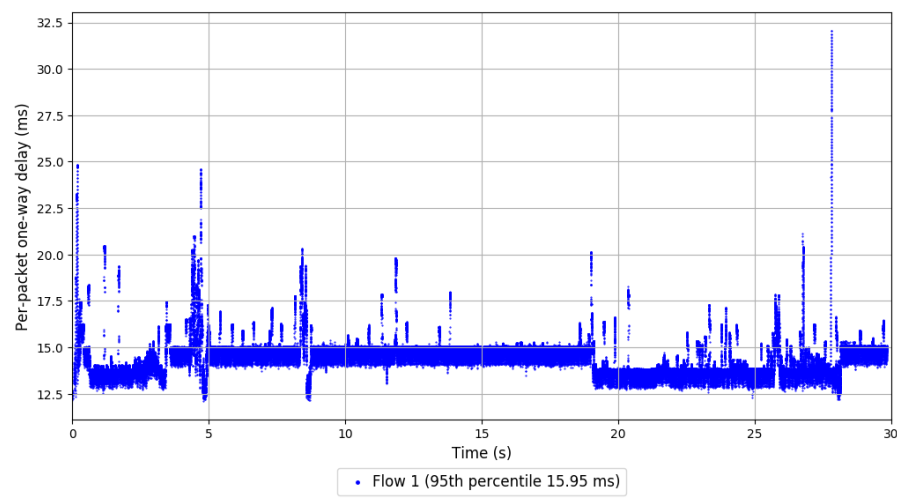
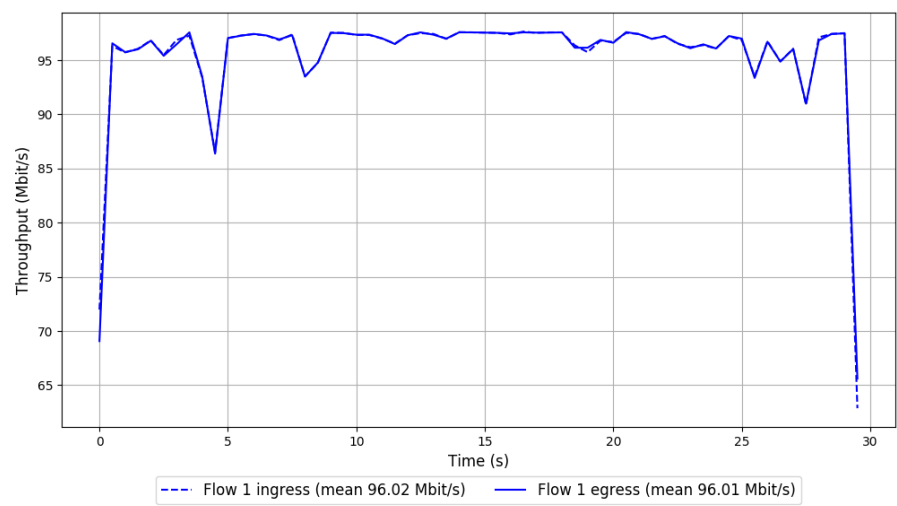
-- Flow 1:

Average throughput: 96.01 Mbit/s

95th percentile per-packet one-way delay: 15.952 ms

Loss rate: 0.00%

Run 5: Report of Indigo-1-32 — Data Link



Run 6: Statistics of Indigo-1-32

Start at: 2018-03-13 06:05:50

End at: 2018-03-13 06:06:20

Local clock offset: 3.012 ms

Remote clock offset: -2.134 ms

Below is generated by plot.py at 2018-03-13 08:44:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.92 Mbit/s

95th percentile per-packet one-way delay: 12.571 ms

Loss rate: 0.00%

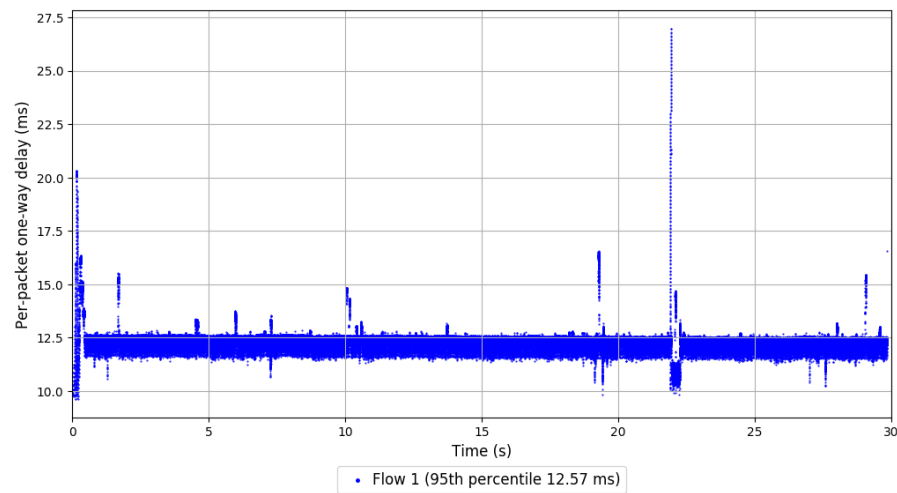
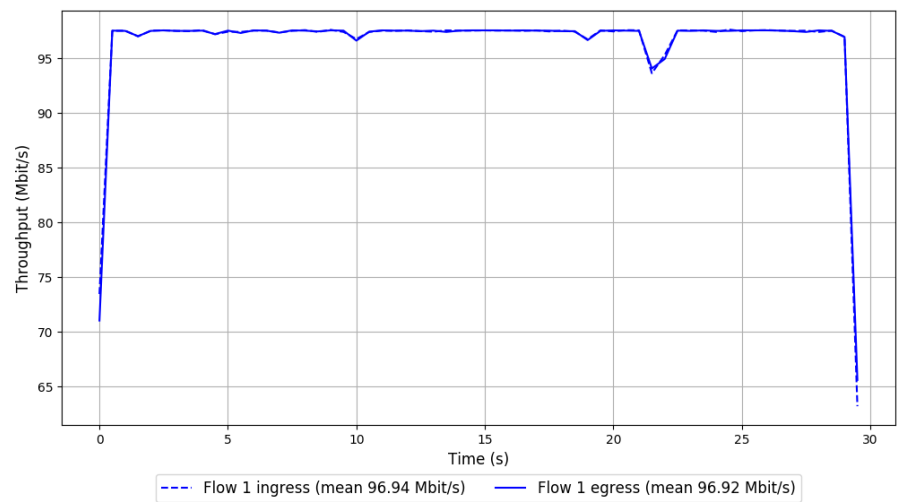
-- Flow 1:

Average throughput: 96.92 Mbit/s

95th percentile per-packet one-way delay: 12.571 ms

Loss rate: 0.00%

Run 6: Report of Indigo-1-32 — Data Link



Run 7: Statistics of Indigo-1-32

Start at: 2018-03-13 06:26:53

End at: 2018-03-13 06:27:23

Local clock offset: 3.603 ms

Remote clock offset: 0.838 ms

Below is generated by plot.py at 2018-03-13 08:44:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.38 Mbit/s

95th percentile per-packet one-way delay: 14.598 ms

Loss rate: 0.00%

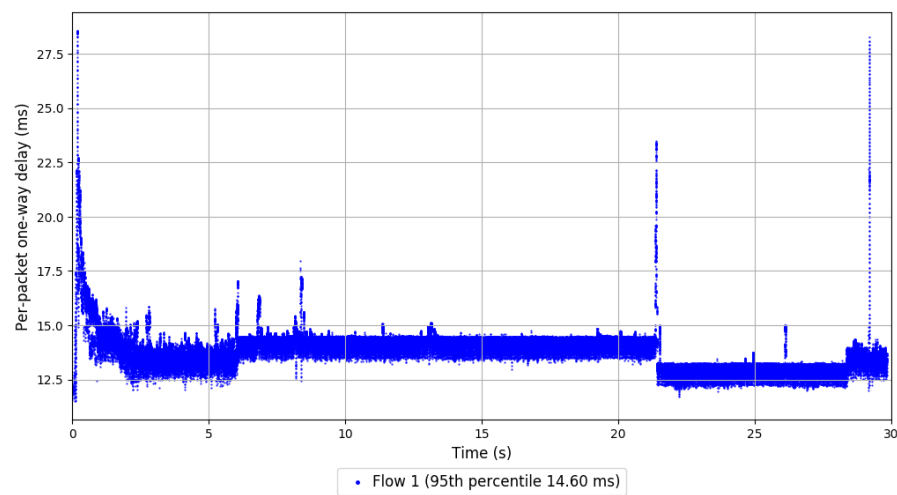
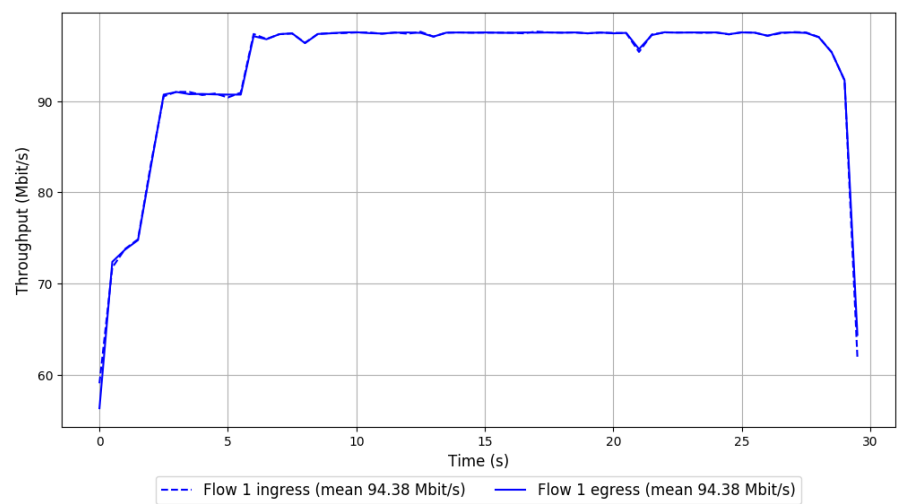
-- Flow 1:

Average throughput: 94.38 Mbit/s

95th percentile per-packet one-way delay: 14.598 ms

Loss rate: 0.00%

Run 7: Report of Indigo-1-32 — Data Link



Run 8: Statistics of Indigo-1-32

Start at: 2018-03-13 06:48:15

End at: 2018-03-13 06:48:45

Local clock offset: 5.337 ms

Remote clock offset: 0.647 ms

Below is generated by plot.py at 2018-03-13 08:44:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.98 Mbit/s

95th percentile per-packet one-way delay: 11.912 ms

Loss rate: 0.00%

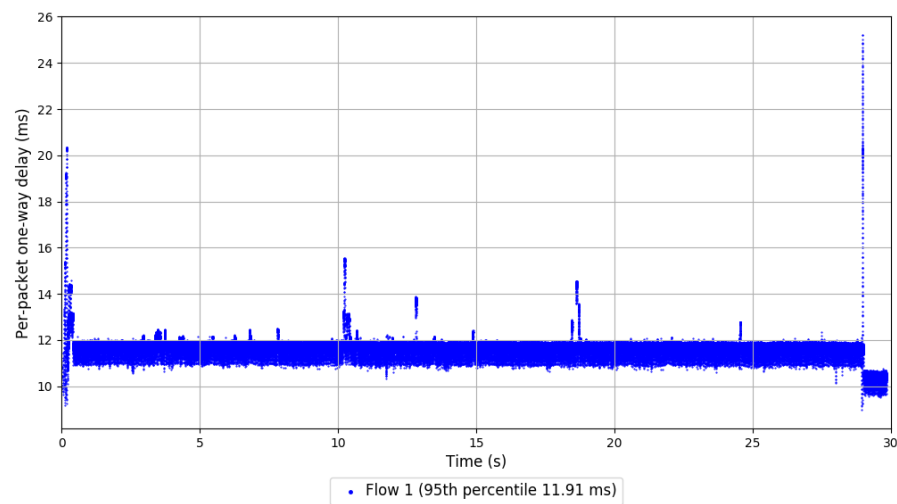
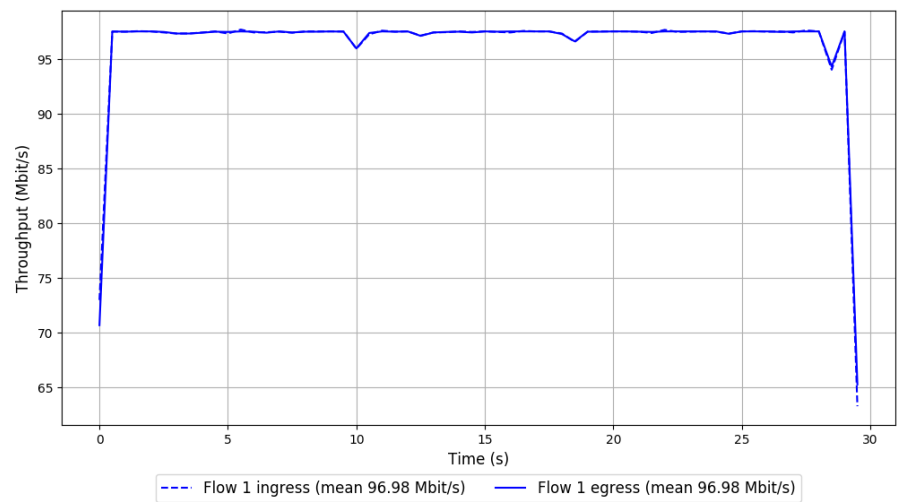
-- Flow 1:

Average throughput: 96.98 Mbit/s

95th percentile per-packet one-way delay: 11.912 ms

Loss rate: 0.00%

Run 8: Report of Indigo-1-32 — Data Link



Run 9: Statistics of Indigo-1-32

Start at: 2018-03-13 07:09:25

End at: 2018-03-13 07:09:55

Local clock offset: 4.098 ms

Remote clock offset: 9.73 ms

Below is generated by plot.py at 2018-03-13 08:44:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.47 Mbit/s

95th percentile per-packet one-way delay: 12.537 ms

Loss rate: 0.00%

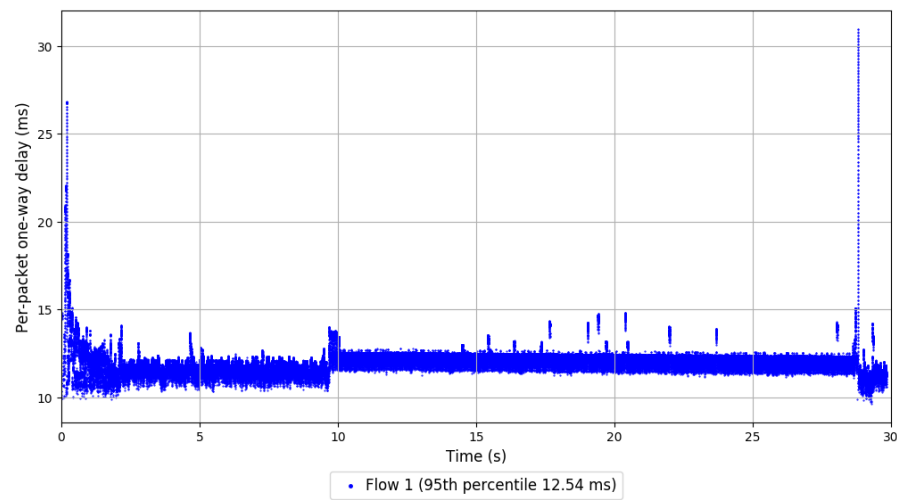
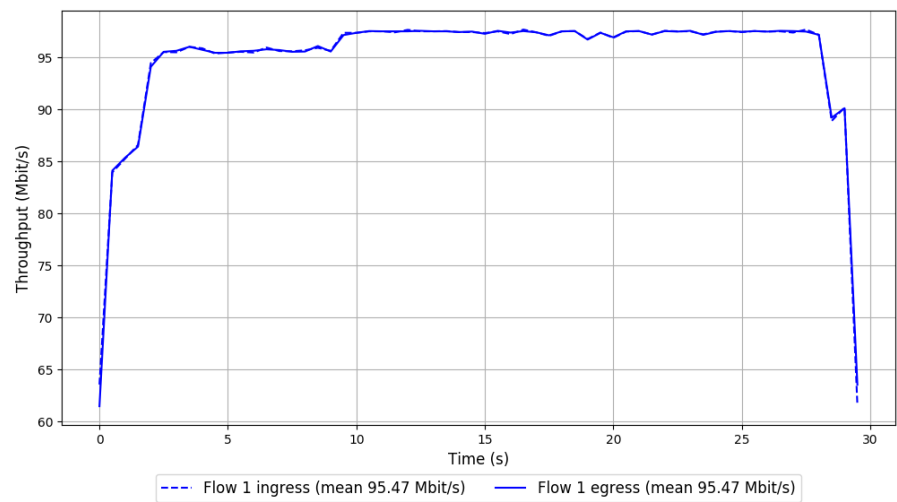
-- Flow 1:

Average throughput: 95.47 Mbit/s

95th percentile per-packet one-way delay: 12.537 ms

Loss rate: 0.00%

Run 9: Report of Indigo-1-32 — Data Link

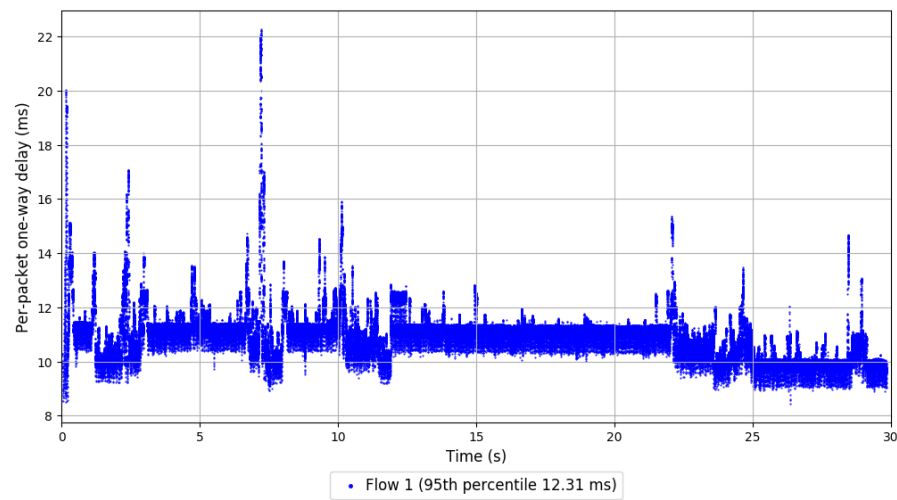
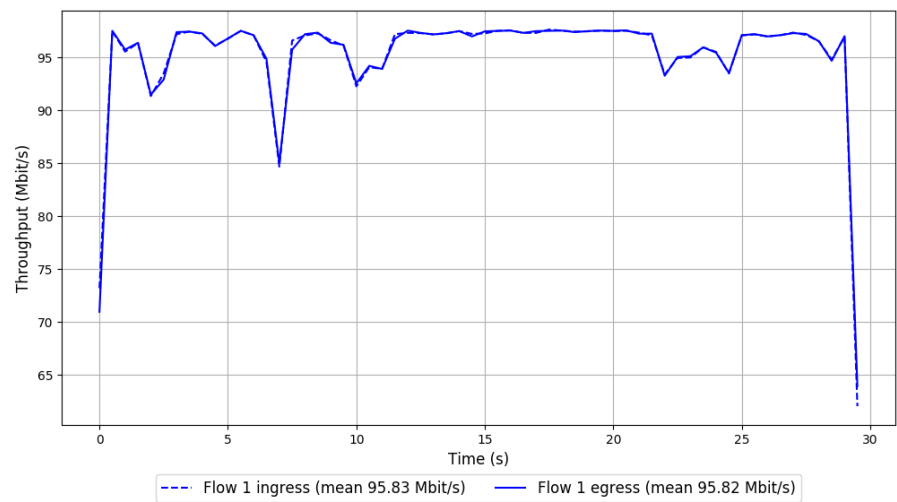


Run 10: Statistics of Indigo-1-32

Start at: 2018-03-13 07:30:09
End at: 2018-03-13 07:30:39
Local clock offset: 3.471 ms
Remote clock offset: 17.359 ms

Below is generated by plot.py at 2018-03-13 08:45:07
Datalink statistics
-- Total of 1 flow:
Average throughput: 95.82 Mbit/s
95th percentile per-packet one-way delay: 12.310 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 95.82 Mbit/s
95th percentile per-packet one-way delay: 12.310 ms
Loss rate: 0.00%

Run 10: Report of Indigo-1-32 — Data Link



Run 1: Statistics of Vivace-latency

Start at: 2018-03-13 04:32:05

End at: 2018-03-13 04:32:35

Local clock offset: 6.152 ms

Remote clock offset: 0.821 ms

Below is generated by plot.py at 2018-03-13 08:45:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.39 Mbit/s

95th percentile per-packet one-way delay: 10.476 ms

Loss rate: 0.00%

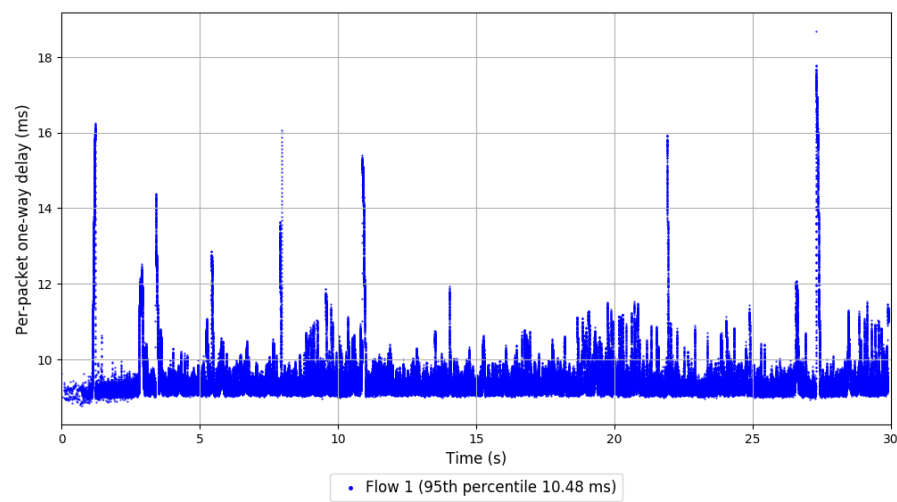
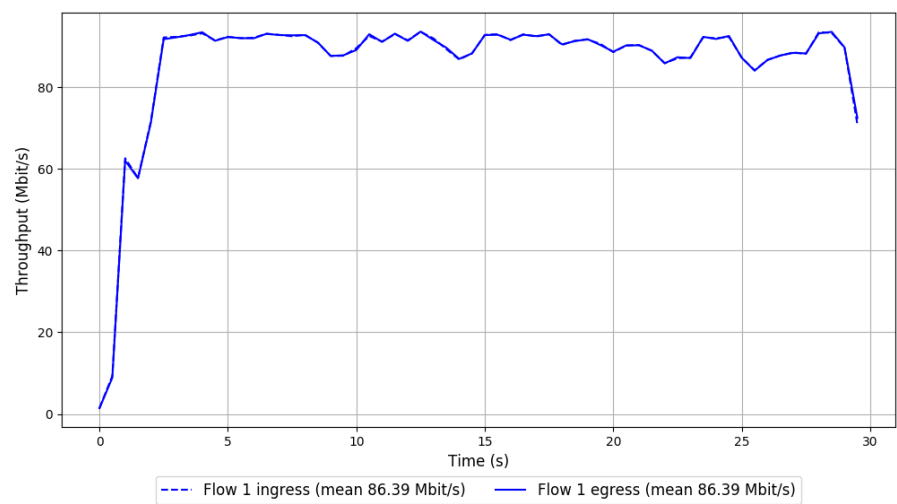
-- Flow 1:

Average throughput: 86.39 Mbit/s

95th percentile per-packet one-way delay: 10.476 ms

Loss rate: 0.00%

Run 1: Report of Vivace-latency — Data Link



Run 2: Statistics of Vivace-latency

Start at: 2018-03-13 04:53:09

End at: 2018-03-13 04:53:39

Local clock offset: 3.893 ms

Remote clock offset: 1.198 ms

Below is generated by plot.py at 2018-03-13 08:45:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.65 Mbit/s

95th percentile per-packet one-way delay: 11.750 ms

Loss rate: 0.00%

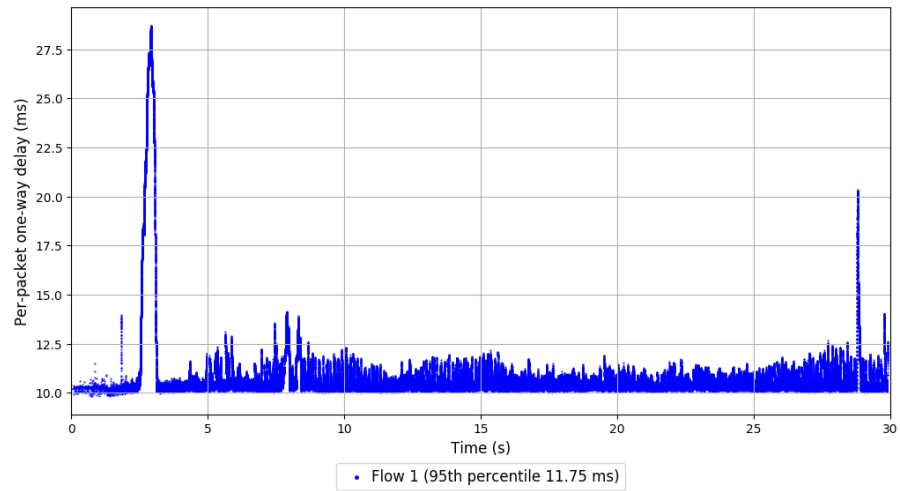
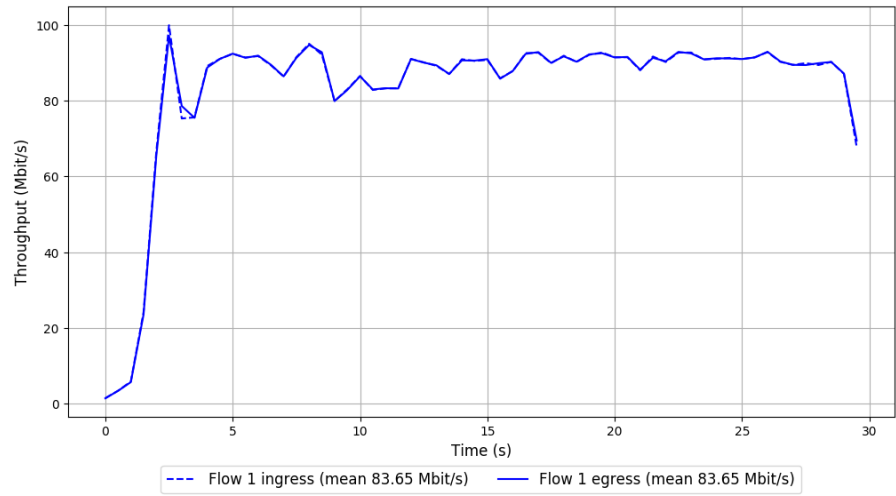
-- Flow 1:

Average throughput: 83.65 Mbit/s

95th percentile per-packet one-way delay: 11.750 ms

Loss rate: 0.00%

Run 2: Report of Vivace-latency — Data Link



Run 3: Statistics of Vivace-latency

Start at: 2018-03-13 05:14:32

End at: 2018-03-13 05:15:02

Local clock offset: 3.565 ms

Remote clock offset: 2.576 ms

Below is generated by plot.py at 2018-03-13 08:46:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.93 Mbit/s

95th percentile per-packet one-way delay: 11.060 ms

Loss rate: 0.00%

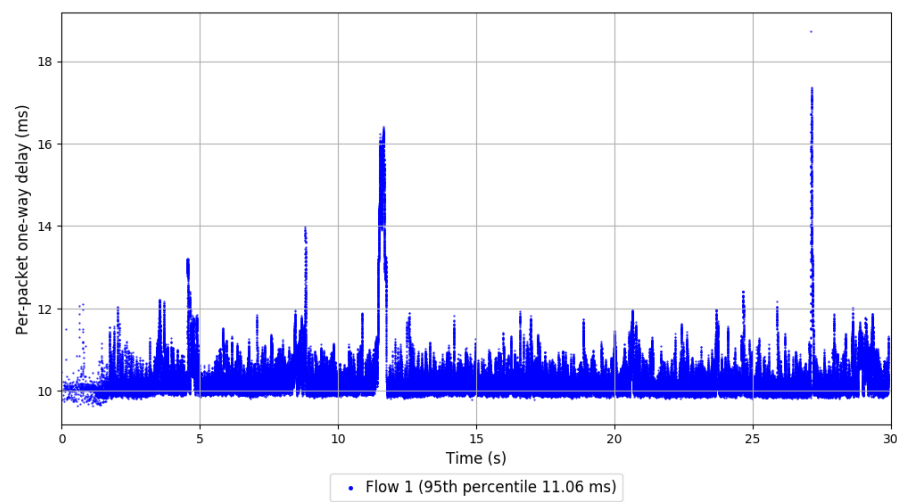
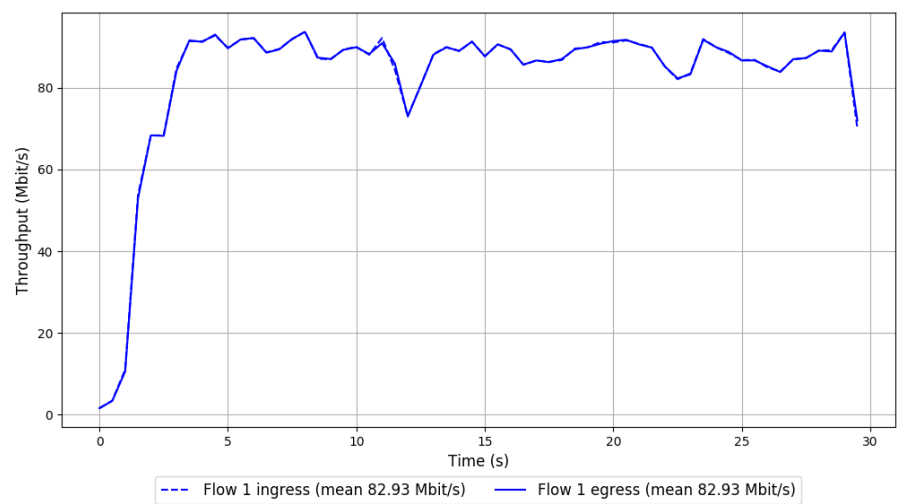
-- Flow 1:

Average throughput: 82.93 Mbit/s

95th percentile per-packet one-way delay: 11.060 ms

Loss rate: 0.00%

Run 3: Report of Vivace-latency — Data Link

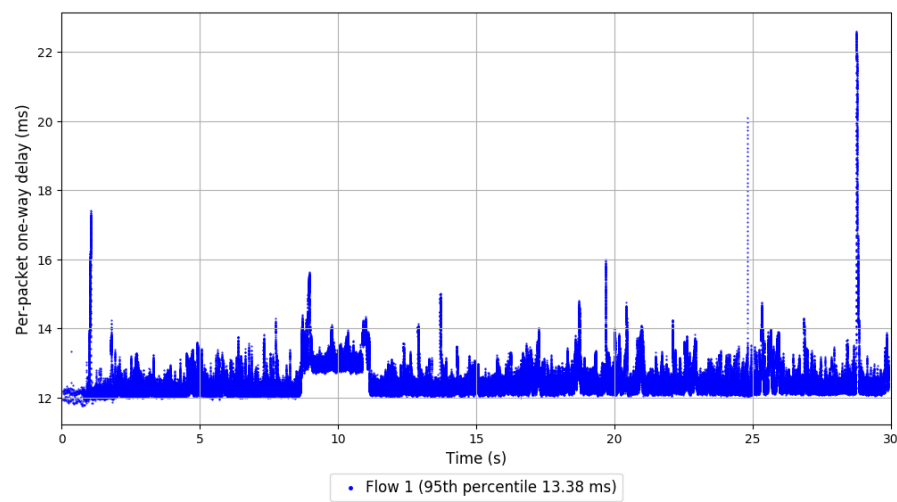
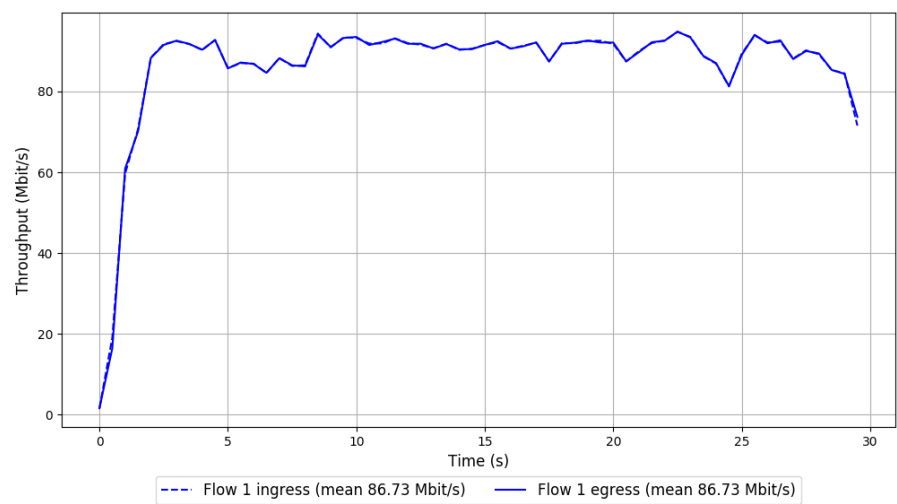


Run 4: Statistics of Vivace-latency

Start at: 2018-03-13 05:35:27
End at: 2018-03-13 05:35:57
Local clock offset: 1.09 ms
Remote clock offset: -5.803 ms

Below is generated by plot.py at 2018-03-13 08:46:16
Datalink statistics
-- Total of 1 flow:
Average throughput: 86.73 Mbit/s
95th percentile per-packet one-way delay: 13.375 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 86.73 Mbit/s
95th percentile per-packet one-way delay: 13.375 ms
Loss rate: 0.00%

Run 4: Report of Vivace-latency — Data Link

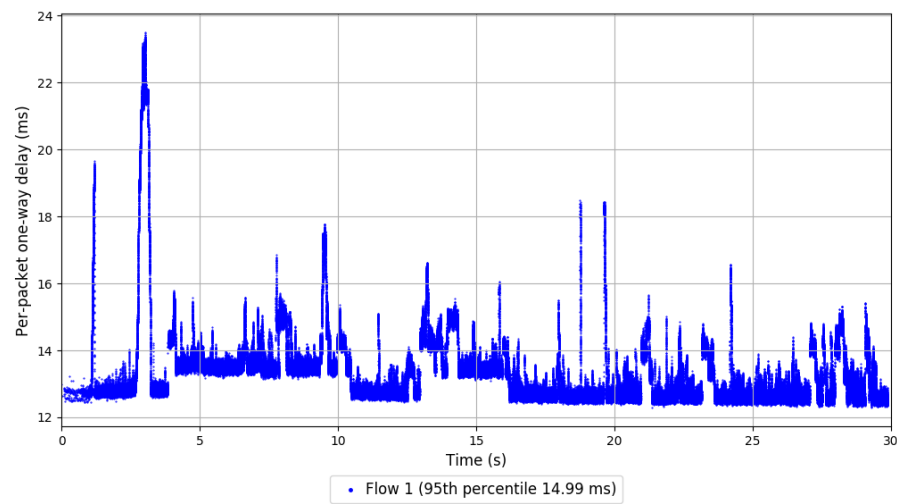
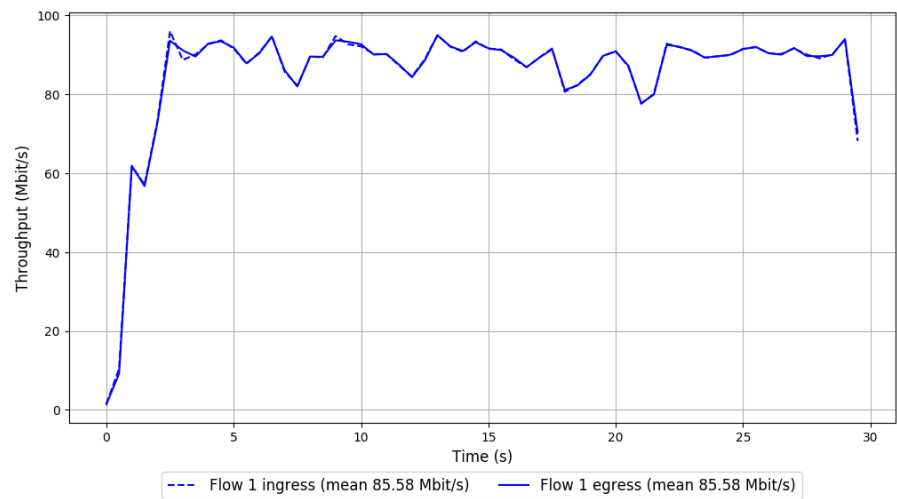


Run 5: Statistics of Vivace-latency

Start at: 2018-03-13 05:56:20
End at: 2018-03-13 05:56:50
Local clock offset: 0.589 ms
Remote clock offset: -5.934 ms

Below is generated by plot.py at 2018-03-13 08:46:16
Datalink statistics
-- Total of 1 flow:
Average throughput: 85.58 Mbit/s
95th percentile per-packet one-way delay: 14.989 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 85.58 Mbit/s
95th percentile per-packet one-way delay: 14.989 ms
Loss rate: 0.00%

Run 5: Report of Vivace-latency — Data Link



Run 6: Statistics of Vivace-latency

Start at: 2018-03-13 06:17:25

End at: 2018-03-13 06:17:55

Local clock offset: 4.454 ms

Remote clock offset: 0.313 ms

Below is generated by plot.py at 2018-03-13 08:46:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.21 Mbit/s

95th percentile per-packet one-way delay: 12.866 ms

Loss rate: 0.00%

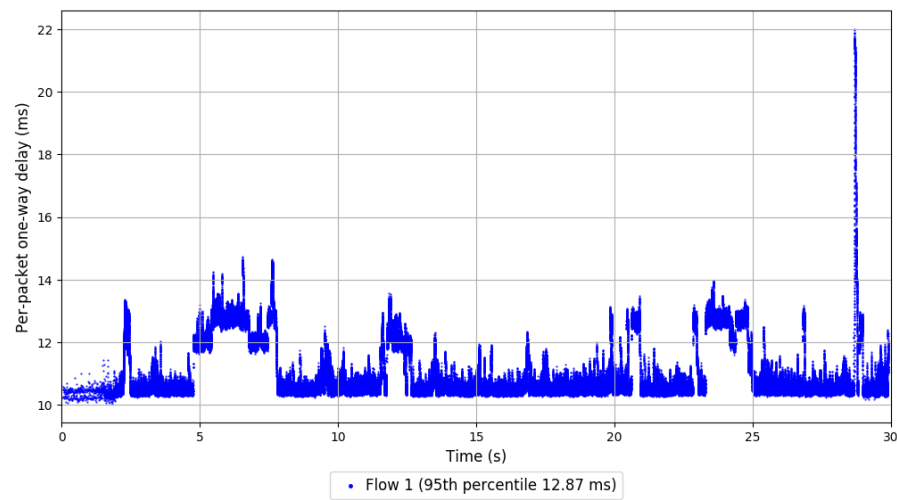
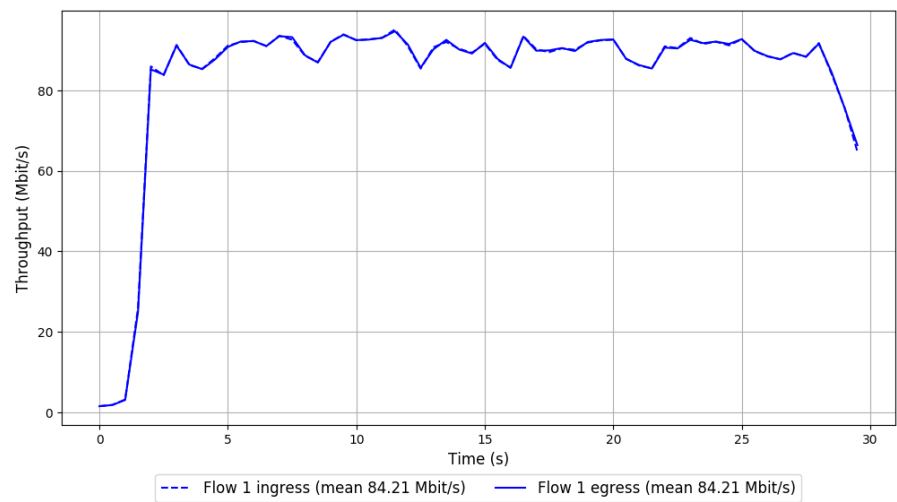
-- Flow 1:

Average throughput: 84.21 Mbit/s

95th percentile per-packet one-way delay: 12.866 ms

Loss rate: 0.00%

Run 6: Report of Vivace-latency — Data Link



Run 7: Statistics of Vivace-latency

Start at: 2018-03-13 06:38:35

End at: 2018-03-13 06:39:05

Local clock offset: 6.394 ms

Remote clock offset: 1.171 ms

Below is generated by plot.py at 2018-03-13 08:46:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.79 Mbit/s

95th percentile per-packet one-way delay: 13.319 ms

Loss rate: 0.00%

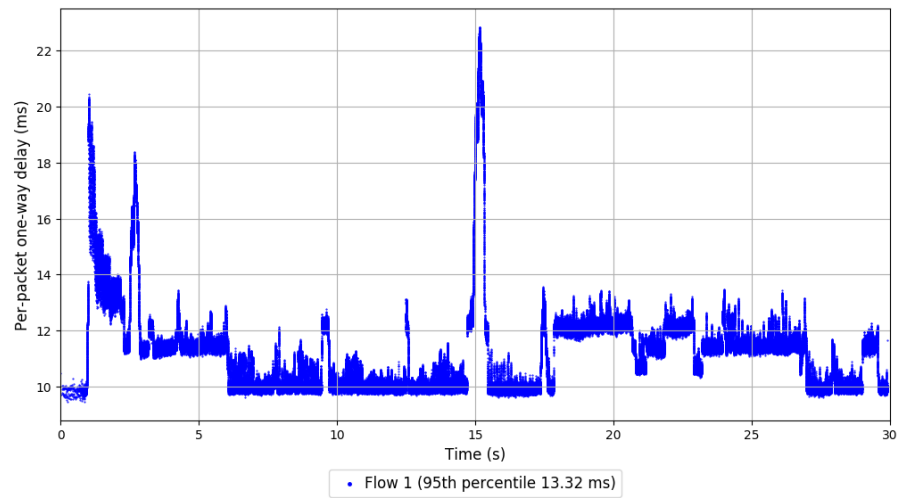
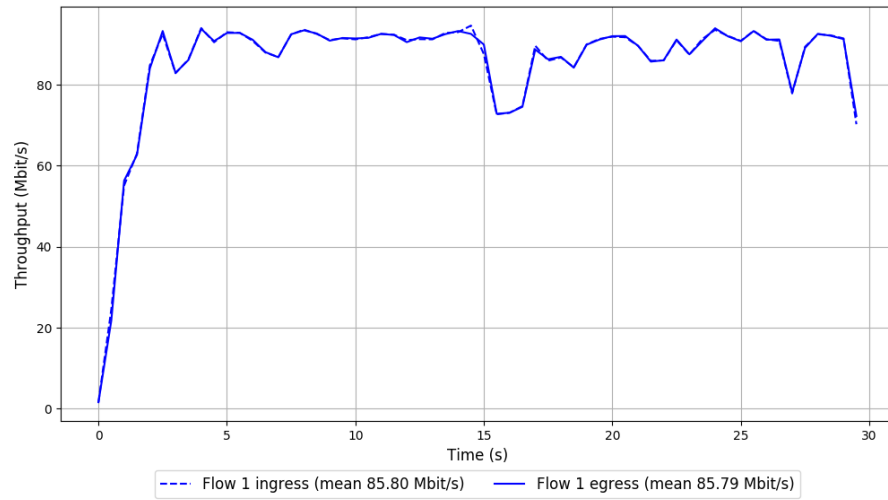
-- Flow 1:

Average throughput: 85.79 Mbit/s

95th percentile per-packet one-way delay: 13.319 ms

Loss rate: 0.00%

Run 7: Report of Vivace-latency — Data Link



Run 8: Statistics of Vivace-latency

Start at: 2018-03-13 06:59:53

End at: 2018-03-13 07:00:23

Local clock offset: 2.43 ms

Remote clock offset: 1.098 ms

Below is generated by plot.py at 2018-03-13 08:46:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.74 Mbit/s

95th percentile per-packet one-way delay: 13.479 ms

Loss rate: 0.00%

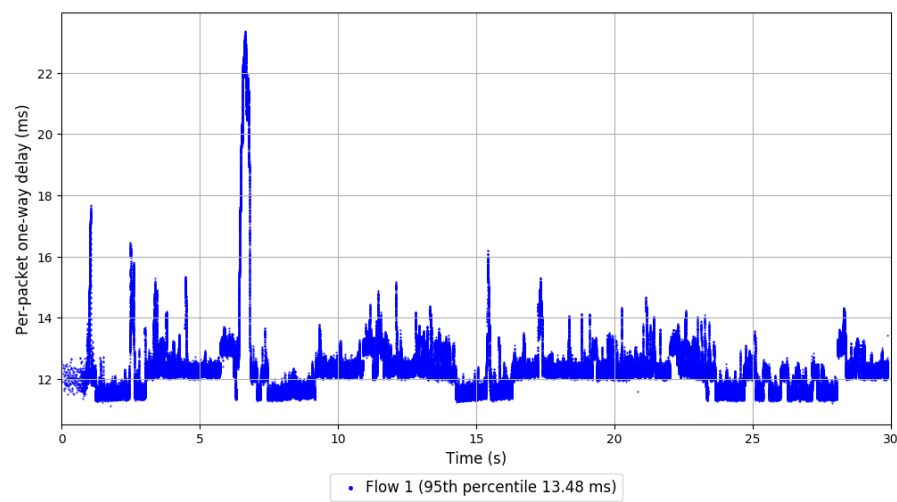
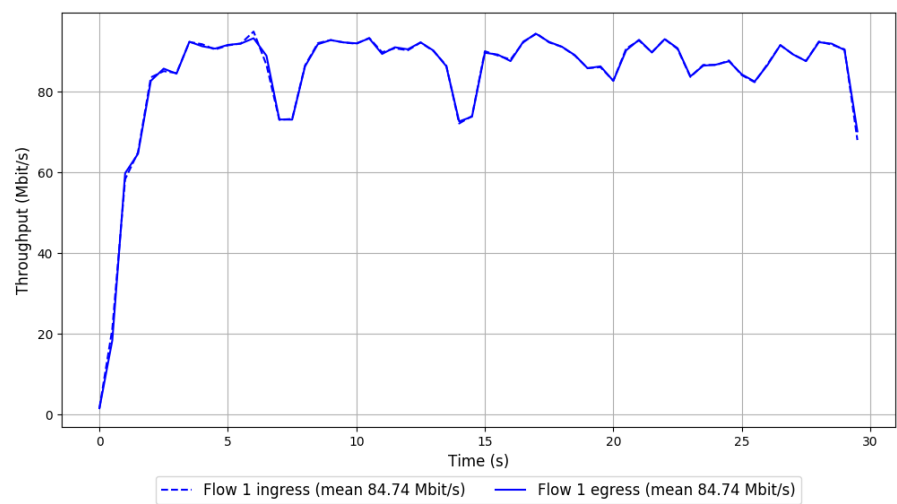
-- Flow 1:

Average throughput: 84.74 Mbit/s

95th percentile per-packet one-way delay: 13.479 ms

Loss rate: 0.00%

Run 8: Report of Vivace-latency — Data Link

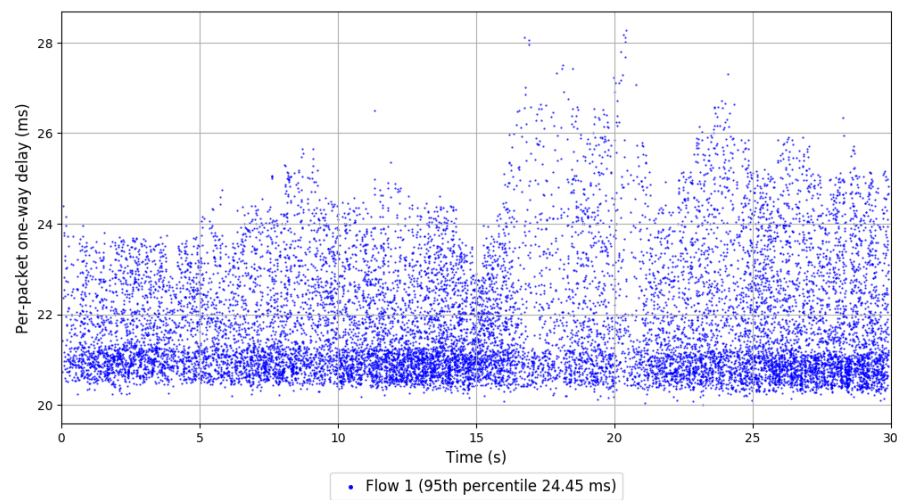
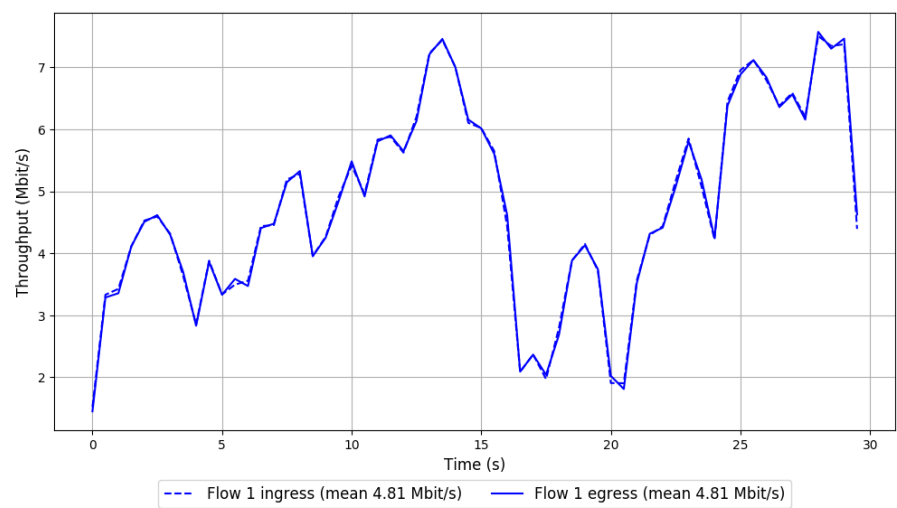


Run 9: Statistics of Vivace-latency

Start at: 2018-03-13 07:20:48
End at: 2018-03-13 07:21:18
Local clock offset: 3.607 ms
Remote clock offset: 25.909 ms

Below is generated by plot.py at 2018-03-13 08:46:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 4.81 Mbit/s
95th percentile per-packet one-way delay: 24.449 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 4.81 Mbit/s
95th percentile per-packet one-way delay: 24.449 ms
Loss rate: 0.01%

Run 9: Report of Vivace-latency — Data Link



Run 10: Statistics of Vivace-latency

Start at: 2018-03-13 07:41:32

End at: 2018-03-13 07:42:02

Local clock offset: 2.905 ms

Remote clock offset: 9.252 ms

Below is generated by plot.py at 2018-03-13 08:46:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.04 Mbit/s

95th percentile per-packet one-way delay: 19.377 ms

Loss rate: 0.00%

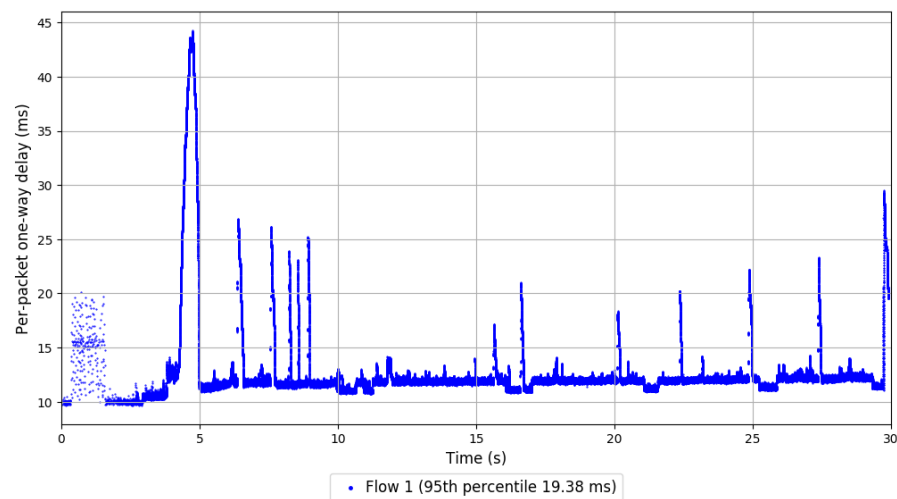
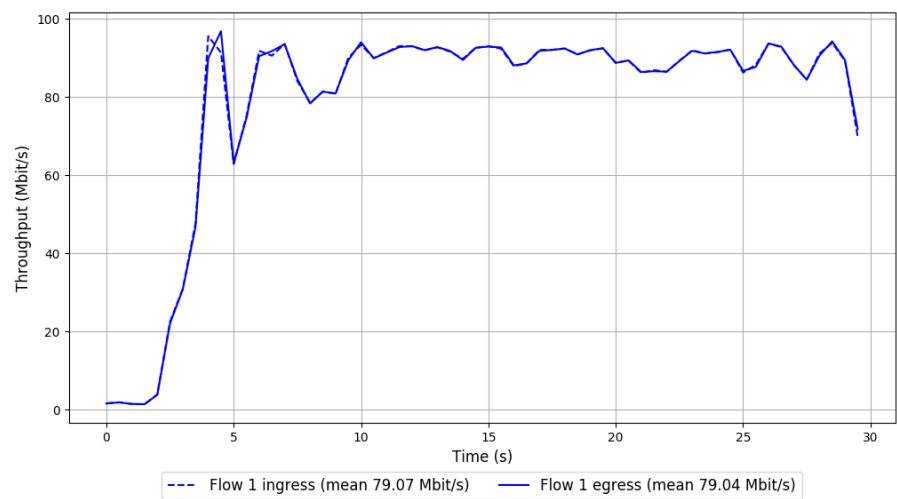
-- Flow 1:

Average throughput: 79.04 Mbit/s

95th percentile per-packet one-way delay: 19.377 ms

Loss rate: 0.00%

Run 10: Report of Vivace-latency — Data Link

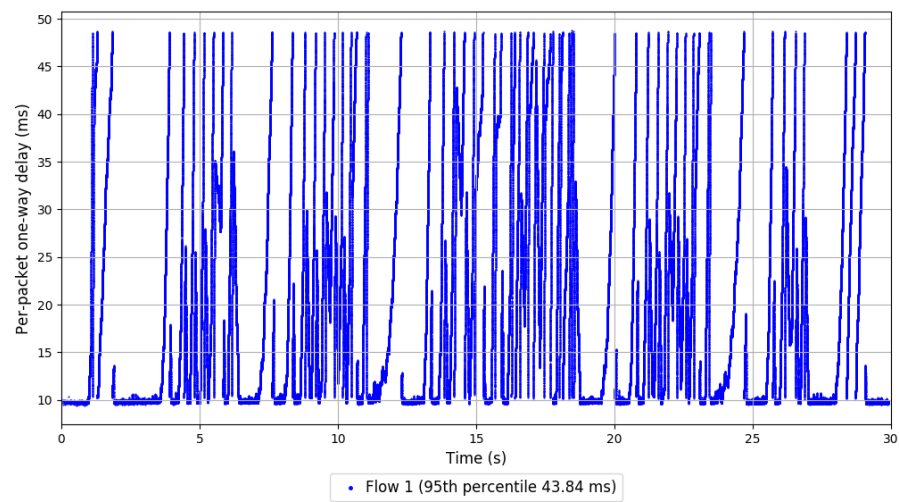
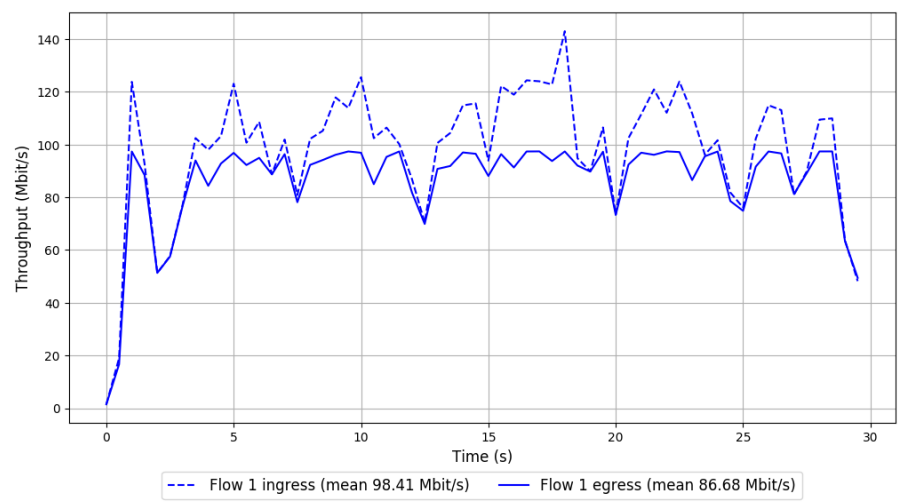


```
Run 1: Statistics of Vivace-loss

Start at: 2018-03-13 04:25:02
End at: 2018-03-13 04:25:32
Local clock offset: 5.415 ms
Remote clock offset: 0.532 ms

# Below is generated by plot.py at 2018-03-13 08:46:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.68 Mbit/s
95th percentile per-packet one-way delay: 43.843 ms
Loss rate: 11.92%
-- Flow 1:
Average throughput: 86.68 Mbit/s
95th percentile per-packet one-way delay: 43.843 ms
Loss rate: 11.92%
```

Run 1: Report of Vivace-loss — Data Link



Run 2: Statistics of Vivace-loss

Start at: 2018-03-13 04:46:12

End at: 2018-03-13 04:46:42

Local clock offset: 2.762 ms

Remote clock offset: 0.68 ms

Below is generated by plot.py at 2018-03-13 08:47:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.26 Mbit/s

95th percentile per-packet one-way delay: 41.562 ms

Loss rate: 6.22%

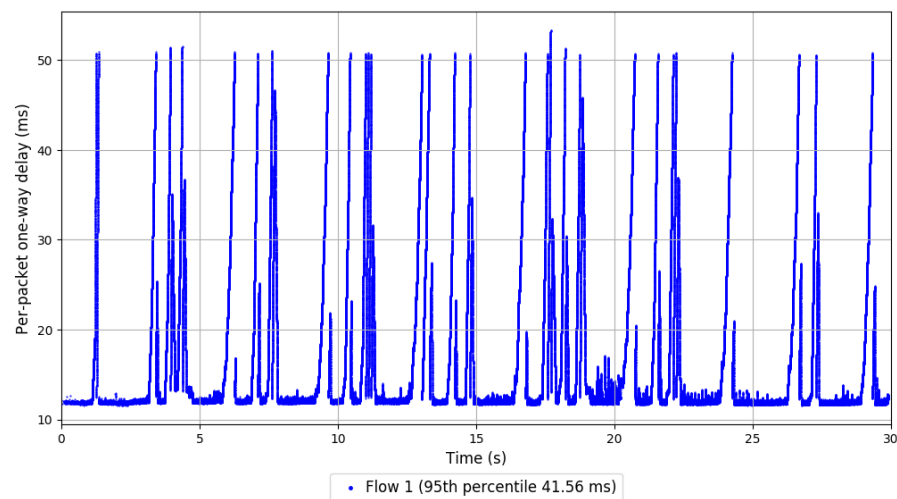
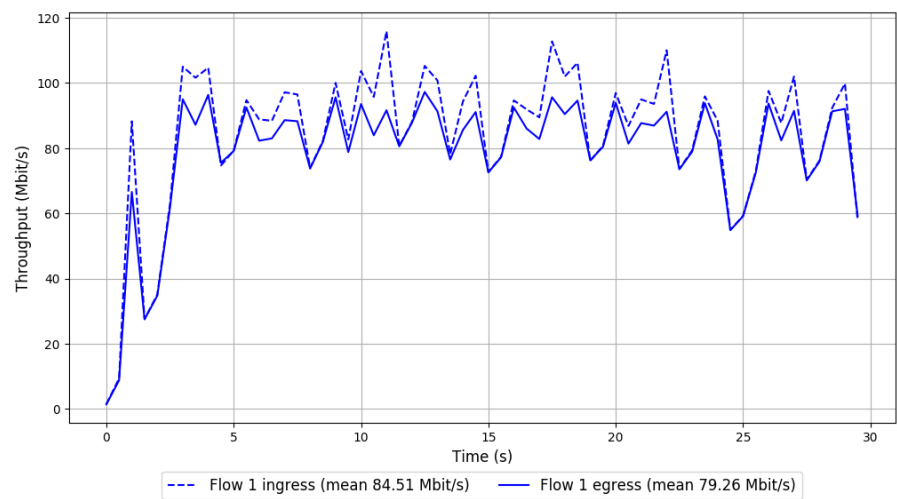
-- Flow 1:

Average throughput: 79.26 Mbit/s

95th percentile per-packet one-way delay: 41.562 ms

Loss rate: 6.22%

Run 2: Report of Vivace-loss — Data Link



Run 3: Statistics of Vivace-loss

Start at: 2018-03-13 05:07:32

End at: 2018-03-13 05:08:02

Local clock offset: 3.541 ms

Remote clock offset: 2.164 ms

Below is generated by plot.py at 2018-03-13 08:47:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.65 Mbit/s

95th percentile per-packet one-way delay: 44.359 ms

Loss rate: 9.98%

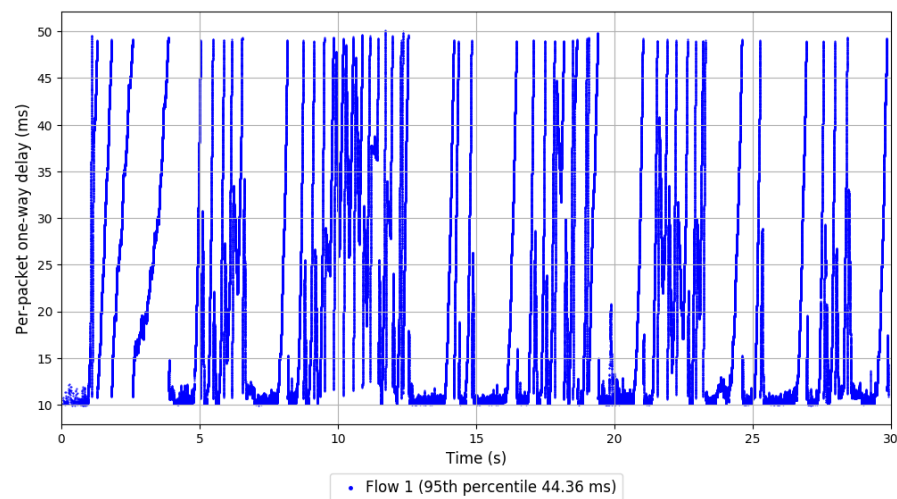
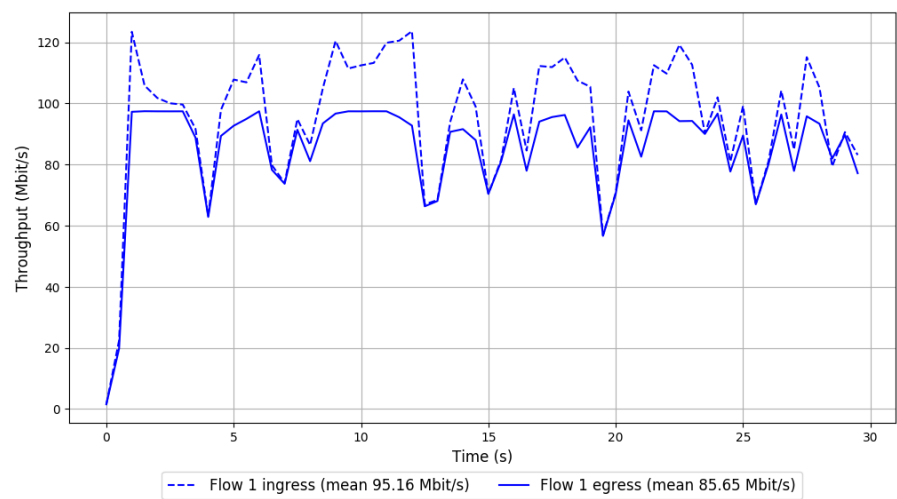
-- Flow 1:

Average throughput: 85.65 Mbit/s

95th percentile per-packet one-way delay: 44.359 ms

Loss rate: 9.98%

Run 3: Report of Vivace-loss — Data Link



Run 4: Statistics of Vivace-loss

Start at: 2018-03-13 05:28:39

End at: 2018-03-13 05:29:09

Local clock offset: 4.637 ms

Remote clock offset: -4.022 ms

Below is generated by plot.py at 2018-03-13 08:47:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.07 Mbit/s

95th percentile per-packet one-way delay: 41.864 ms

Loss rate: 10.32%

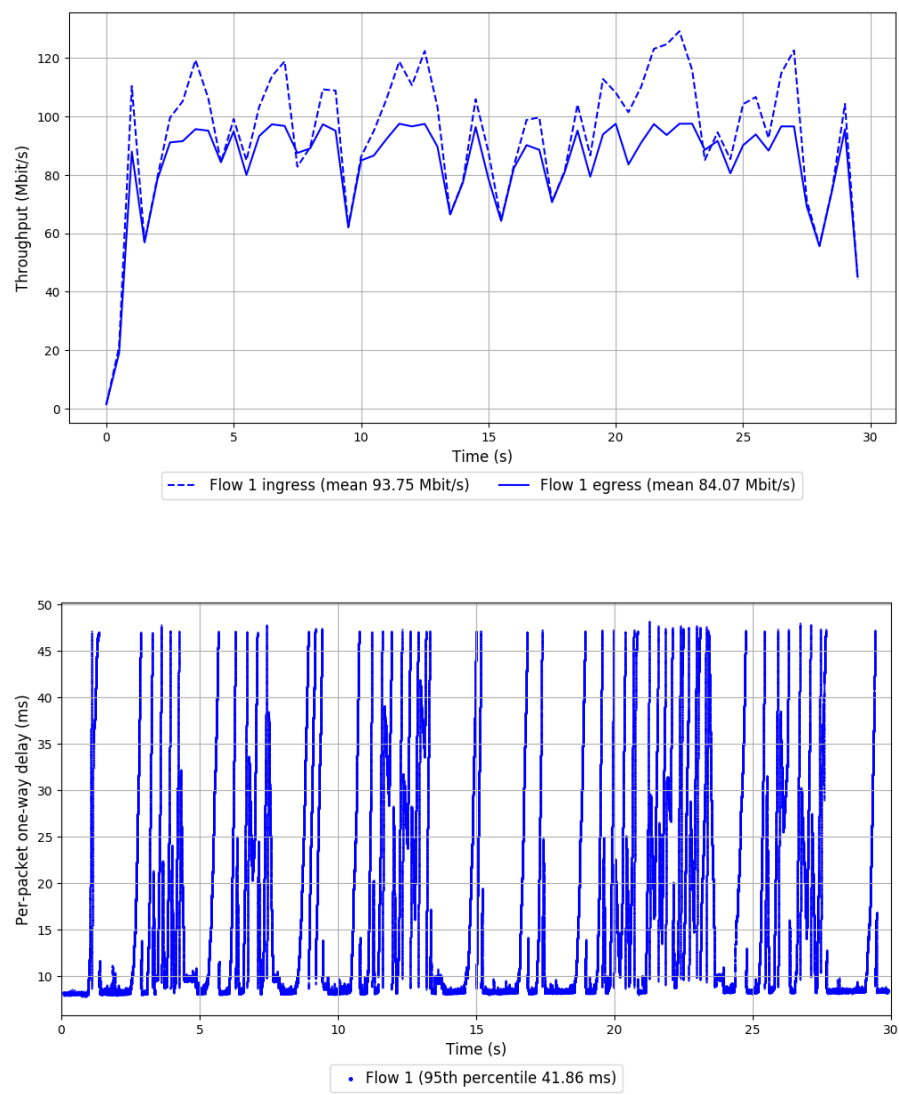
-- Flow 1:

Average throughput: 84.07 Mbit/s

95th percentile per-packet one-way delay: 41.864 ms

Loss rate: 10.32%

Run 4: Report of Vivace-loss — Data Link



Run 5: Statistics of Vivace-loss

Start at: 2018-03-13 05:49:29

End at: 2018-03-13 05:49:59

Local clock offset: -2.268 ms

Remote clock offset: -14.804 ms

Below is generated by plot.py at 2018-03-13 08:47:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.67 Mbit/s

95th percentile per-packet one-way delay: 43.095 ms

Loss rate: 10.68%

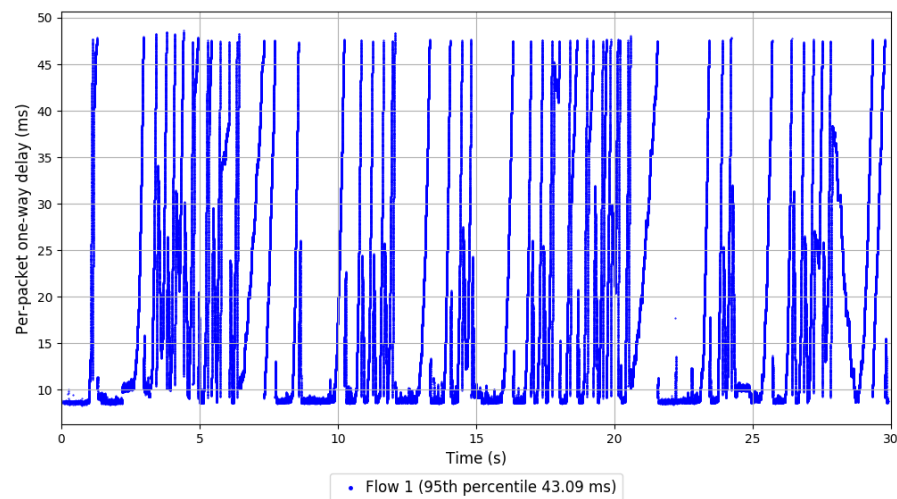
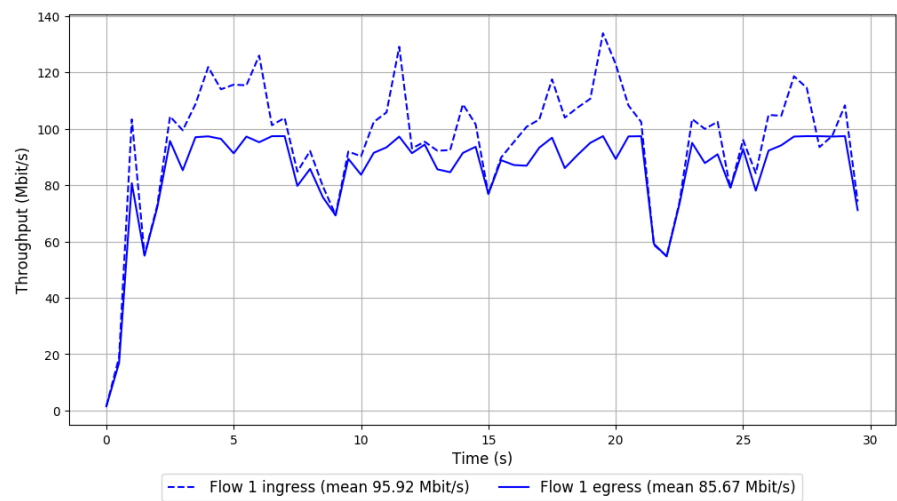
-- Flow 1:

Average throughput: 85.67 Mbit/s

95th percentile per-packet one-way delay: 43.095 ms

Loss rate: 10.68%

Run 5: Report of Vivace-loss — Data Link



Run 6: Statistics of Vivace-loss

Start at: 2018-03-13 06:10:28

End at: 2018-03-13 06:10:58

Local clock offset: 1.265 ms

Remote clock offset: -1.644 ms

Below is generated by plot.py at 2018-03-13 08:47:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.49 Mbit/s

95th percentile per-packet one-way delay: 45.618 ms

Loss rate: 13.31%

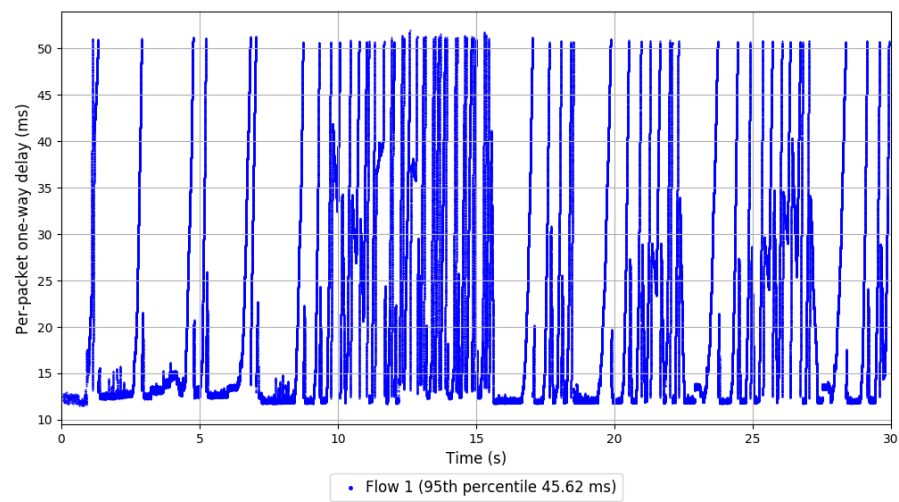
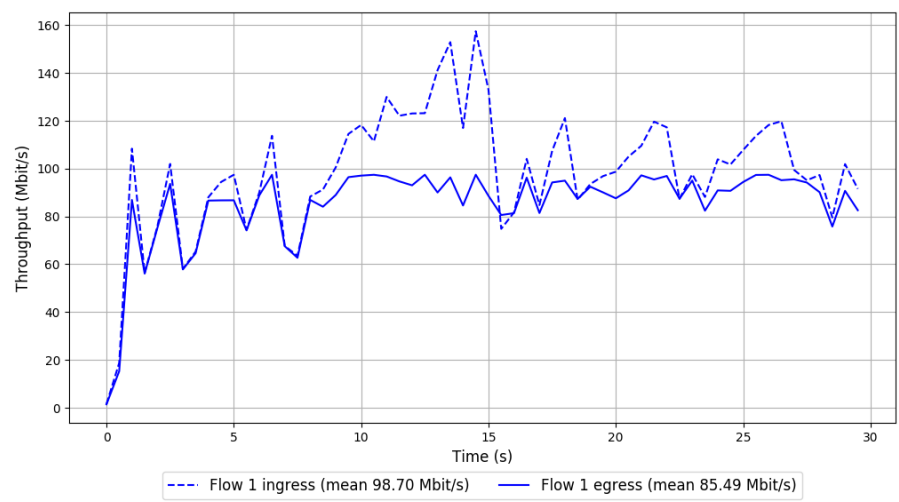
-- Flow 1:

Average throughput: 85.49 Mbit/s

95th percentile per-packet one-way delay: 45.618 ms

Loss rate: 13.31%

Run 6: Report of Vivace-loss — Data Link



Run 7: Statistics of Vivace-loss

Start at: 2018-03-13 06:31:36

End at: 2018-03-13 06:32:06

Local clock offset: 3.613 ms

Remote clock offset: 0.809 ms

Below is generated by plot.py at 2018-03-13 08:47:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.82 Mbit/s

95th percentile per-packet one-way delay: 46.346 ms

Loss rate: 13.18%

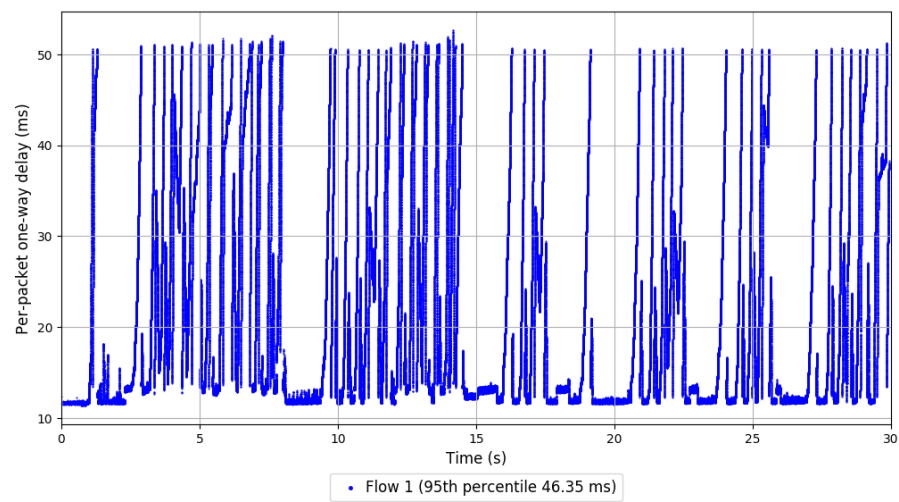
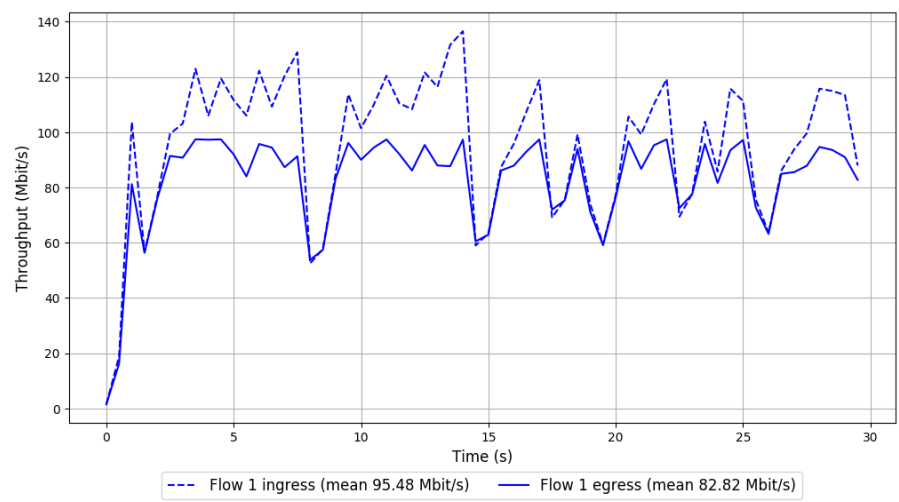
-- Flow 1:

Average throughput: 82.82 Mbit/s

95th percentile per-packet one-way delay: 46.346 ms

Loss rate: 13.18%

Run 7: Report of Vivace-loss — Data Link



Run 8: Statistics of Vivace-loss

Start at: 2018-03-13 06:53:03

End at: 2018-03-13 06:53:33

Local clock offset: 2.997 ms

Remote clock offset: 1.408 ms

Below is generated by plot.py at 2018-03-13 08:47:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.45 Mbit/s

95th percentile per-packet one-way delay: 43.596 ms

Loss rate: 8.64%

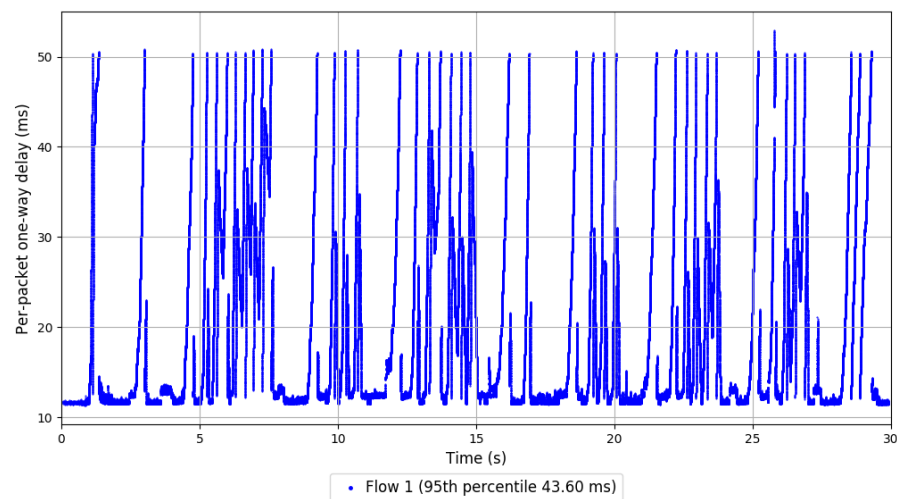
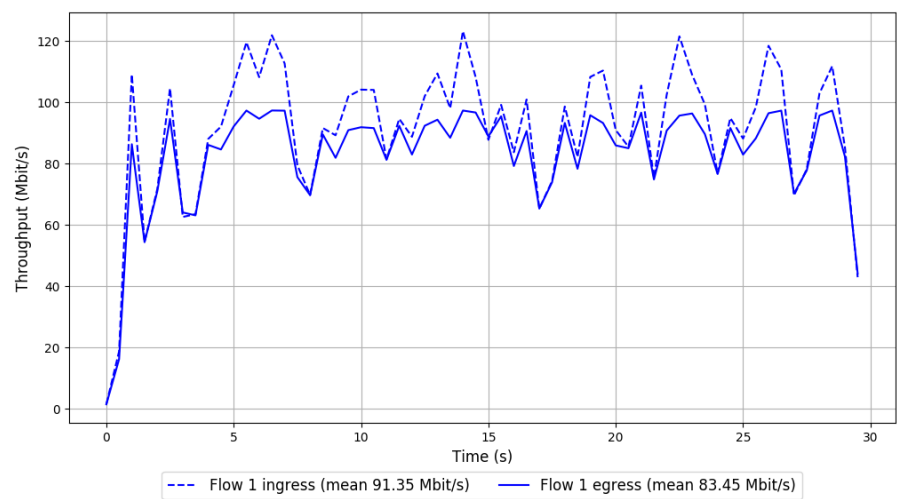
-- Flow 1:

Average throughput: 83.45 Mbit/s

95th percentile per-packet one-way delay: 43.596 ms

Loss rate: 8.64%

Run 8: Report of Vivace-loss — Data Link



Run 9: Statistics of Vivace-loss

Start at: 2018-03-13 07:14:00

End at: 2018-03-13 07:14:30

Local clock offset: 1.516 ms

Remote clock offset: 11.72 ms

Below is generated by plot.py at 2018-03-13 08:47:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 80.74 Mbit/s

95th percentile per-packet one-way delay: 43.228 ms

Loss rate: 8.26%

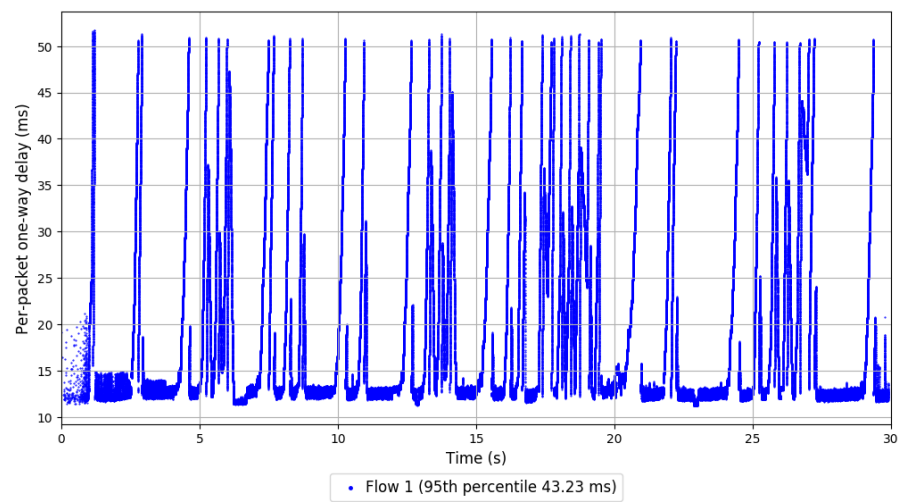
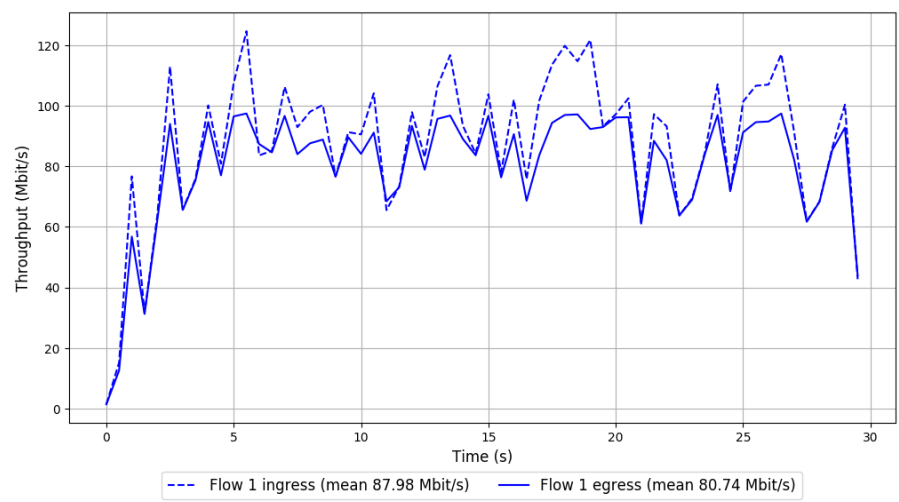
-- Flow 1:

Average throughput: 80.74 Mbit/s

95th percentile per-packet one-way delay: 43.228 ms

Loss rate: 8.26%

Run 9: Report of Vivace-loss — Data Link



Run 10: Statistics of Vivace-loss

Start at: 2018-03-13 07:34:44

End at: 2018-03-13 07:35:14

Local clock offset: 3.965 ms

Remote clock offset: 18.457 ms

Below is generated by plot.py at 2018-03-13 08:48:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.38 Mbit/s

95th percentile per-packet one-way delay: 41.132 ms

Loss rate: 8.83%

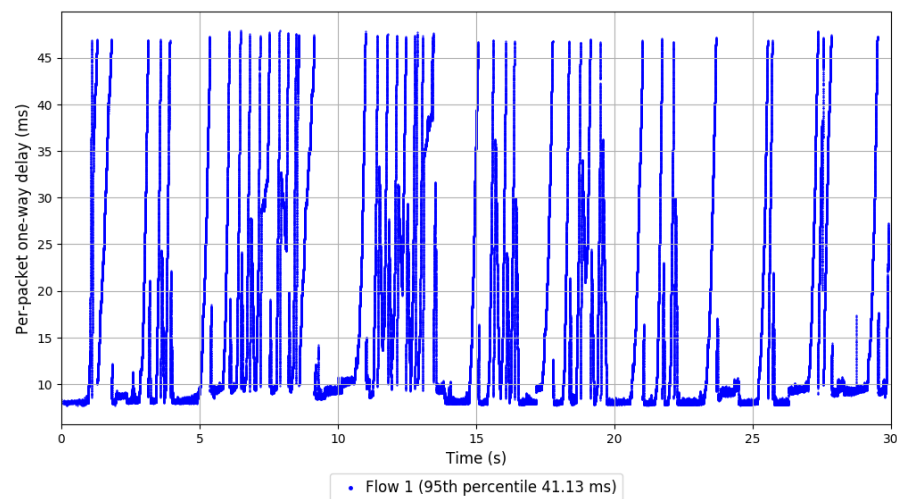
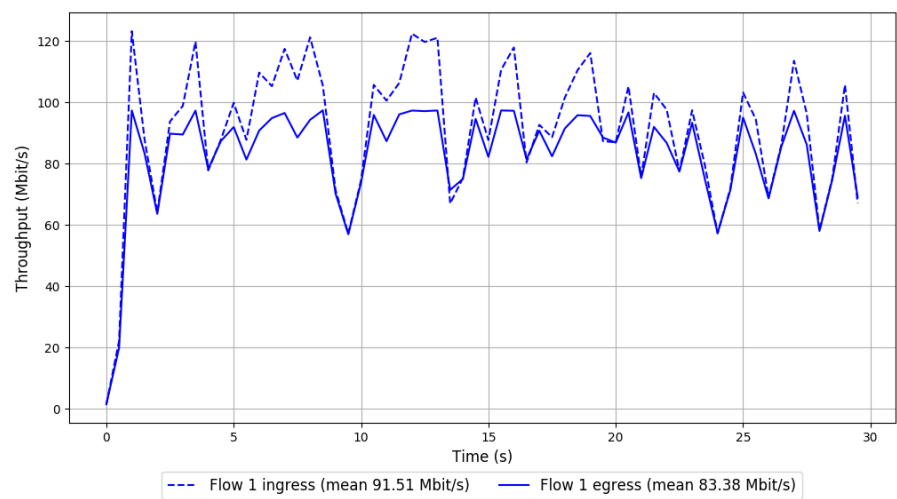
-- Flow 1:

Average throughput: 83.38 Mbit/s

95th percentile per-packet one-way delay: 41.132 ms

Loss rate: 8.83%

Run 10: Report of Vivace-loss — Data Link



Run 1: Statistics of Vivace-LTE

Start at: 2018-03-13 04:30:53

End at: 2018-03-13 04:31:23

Local clock offset: 2.243 ms

Remote clock offset: 0.709 ms

Below is generated by plot.py at 2018-03-13 08:49:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.64 Mbit/s

95th percentile per-packet one-way delay: 25.631 ms

Loss rate: 0.56%

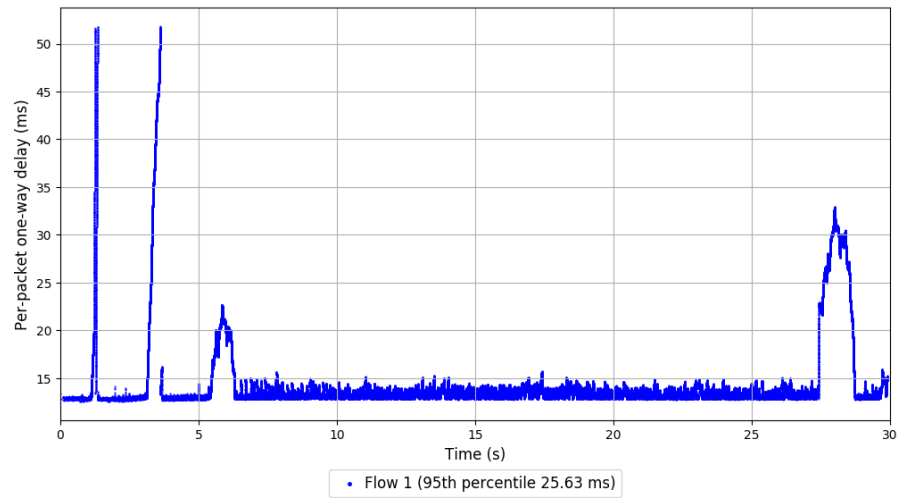
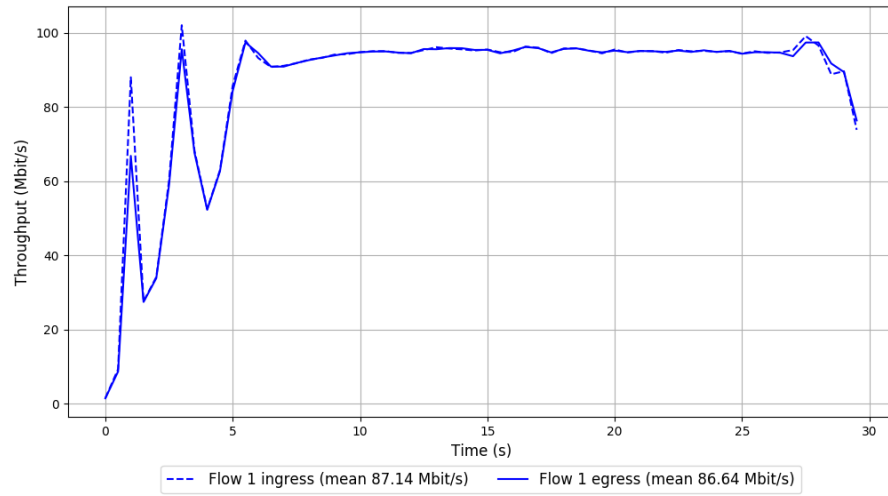
-- Flow 1:

Average throughput: 86.64 Mbit/s

95th percentile per-packet one-way delay: 25.631 ms

Loss rate: 0.56%

Run 1: Report of Vivace-LTE — Data Link



Run 2: Statistics of Vivace-LTE

Start at: 2018-03-13 04:51:57

End at: 2018-03-13 04:52:27

Local clock offset: 5.182 ms

Remote clock offset: 1.817 ms

Below is generated by plot.py at 2018-03-13 08:49:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.94 Mbit/s

95th percentile per-packet one-way delay: 15.427 ms

Loss rate: 0.57%

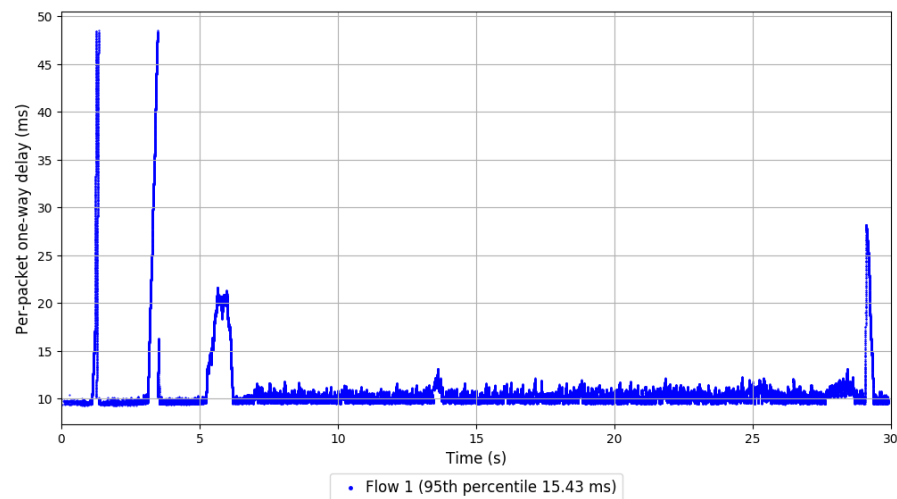
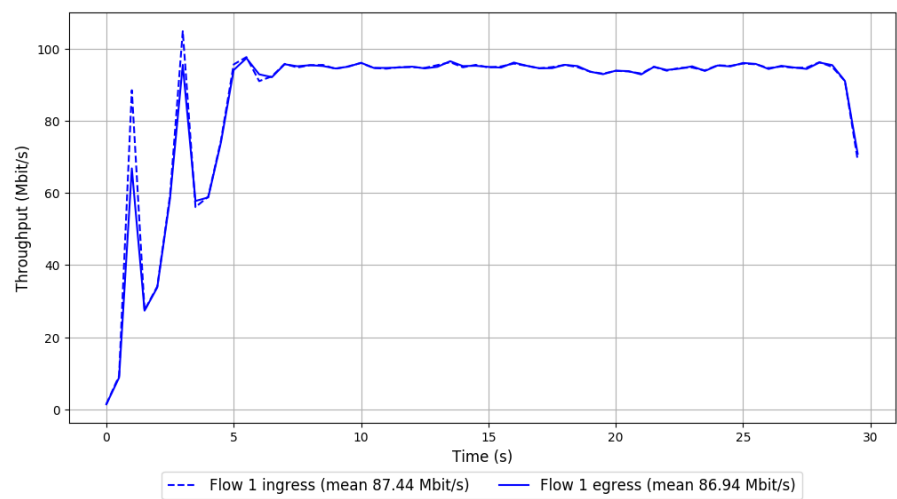
-- Flow 1:

Average throughput: 86.94 Mbit/s

95th percentile per-packet one-way delay: 15.427 ms

Loss rate: 0.57%

Run 2: Report of Vivace-LTE — Data Link



Run 3: Statistics of Vivace-LTE

Start at: 2018-03-13 05:13:18

End at: 2018-03-13 05:13:48

Local clock offset: 3.516 ms

Remote clock offset: 2.347 ms

Below is generated by plot.py at 2018-03-13 08:49:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.54 Mbit/s

95th percentile per-packet one-way delay: 16.727 ms

Loss rate: 0.30%

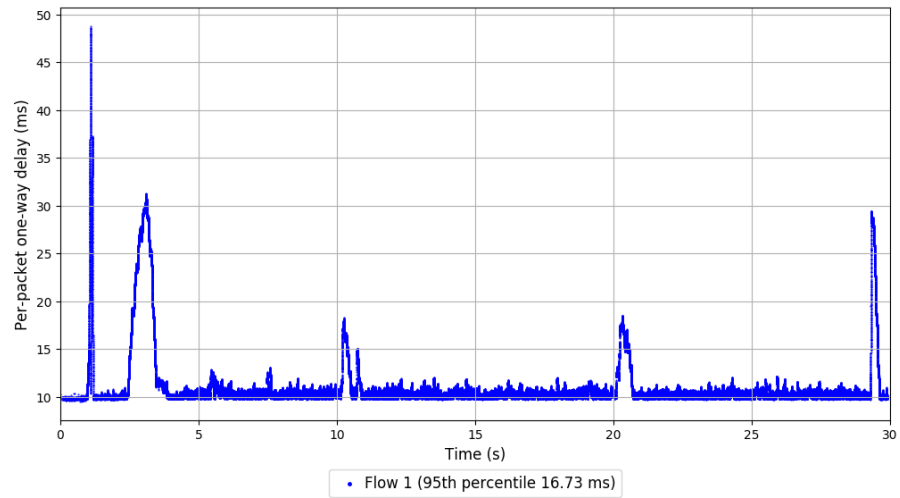
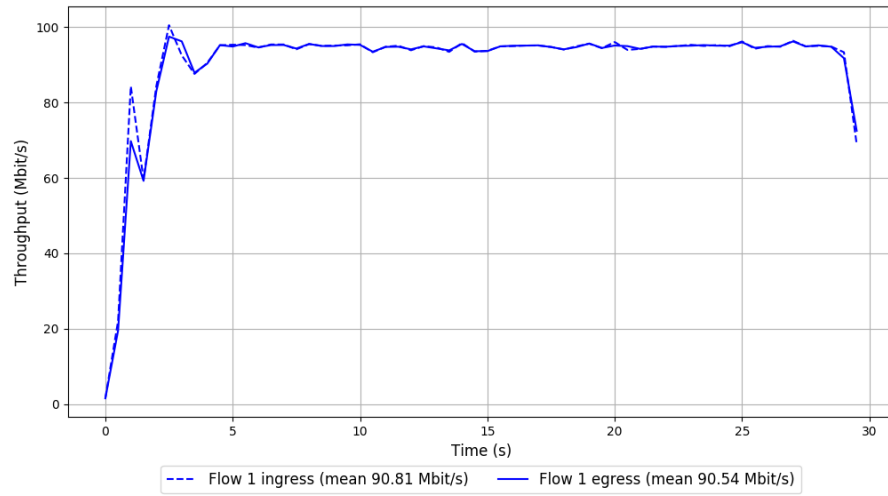
-- Flow 1:

Average throughput: 90.54 Mbit/s

95th percentile per-packet one-way delay: 16.727 ms

Loss rate: 0.30%

Run 3: Report of Vivace-LTE — Data Link

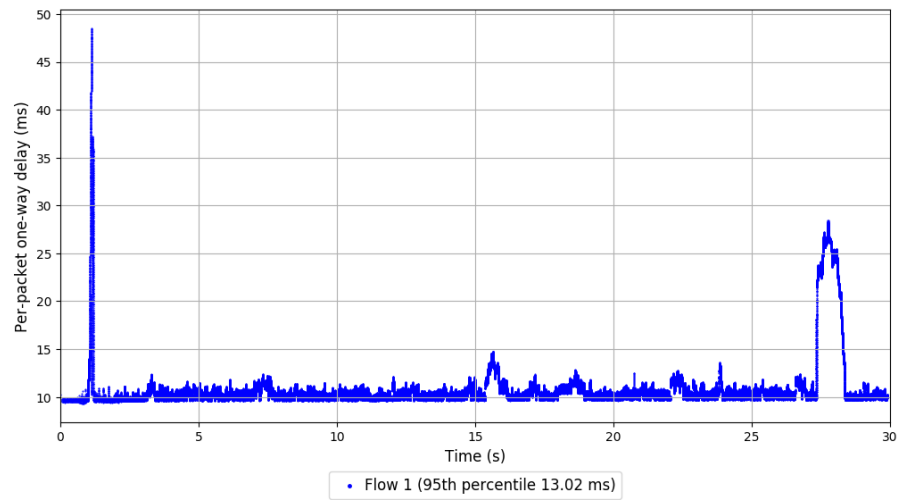
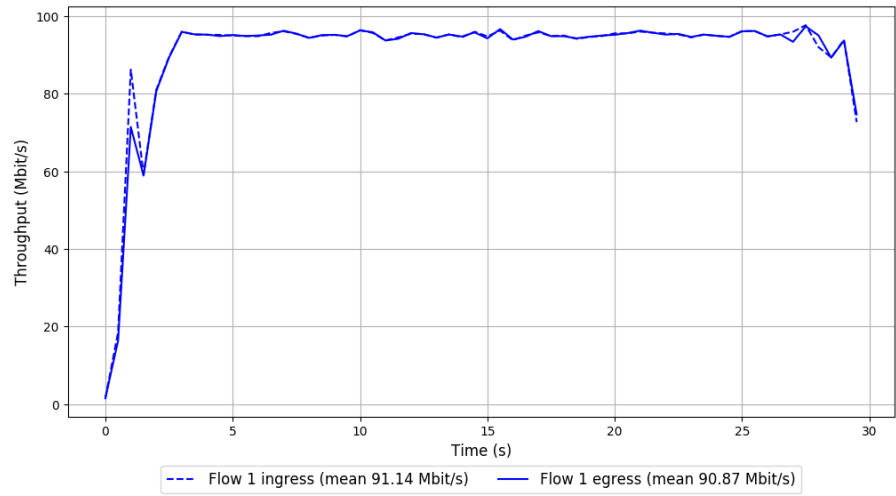


Run 4: Statistics of Vivace-LTE

Start at: 2018-03-13 05:34:17
End at: 2018-03-13 05:34:47
Local clock offset: 3.526 ms
Remote clock offset: -5.507 ms

Below is generated by plot.py at 2018-03-13 08:49:13
Datalink statistics
-- Total of 1 flow:
Average throughput: 90.87 Mbit/s
95th percentile per-packet one-way delay: 13.024 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 90.87 Mbit/s
95th percentile per-packet one-way delay: 13.024 ms
Loss rate: 0.29%

Run 4: Report of Vivace-LTE — Data Link

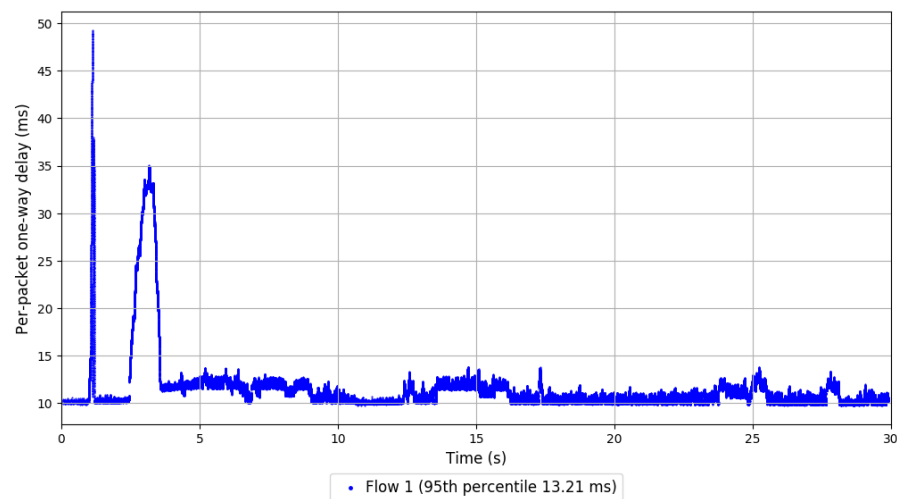
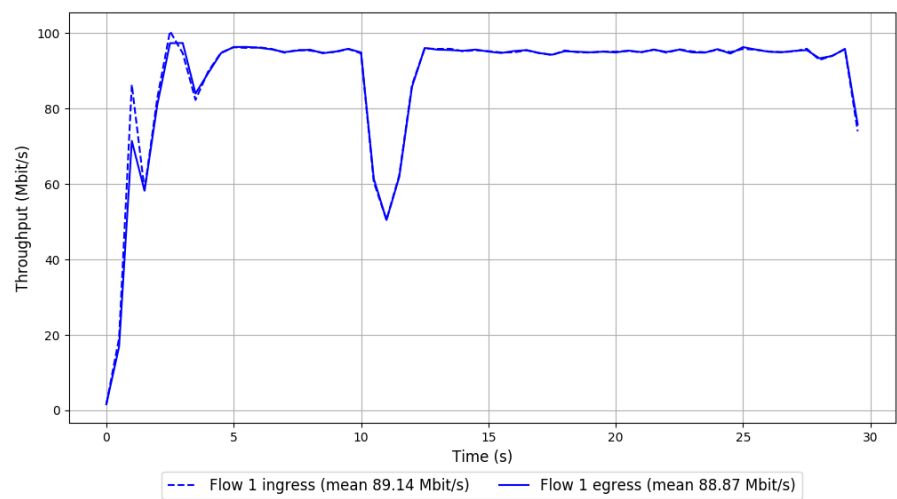


Run 5: Statistics of Vivace-LTE

Start at: 2018-03-13 05:55:09
End at: 2018-03-13 05:55:39
Local clock offset: 2.387 ms
Remote clock offset: -7.542 ms

Below is generated by plot.py at 2018-03-13 08:49:14
Datalink statistics
-- Total of 1 flow:
Average throughput: 88.87 Mbit/s
95th percentile per-packet one-way delay: 13.210 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 88.87 Mbit/s
95th percentile per-packet one-way delay: 13.210 ms
Loss rate: 0.30%

Run 5: Report of Vivace-LTE — Data Link



Run 6: Statistics of Vivace-LTE

Start at: 2018-03-13 06:16:14

End at: 2018-03-13 06:16:44

Local clock offset: 3.916 ms

Remote clock offset: -0.7 ms

Below is generated by plot.py at 2018-03-13 08:49:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.62 Mbit/s

95th percentile per-packet one-way delay: 31.739 ms

Loss rate: 0.29%

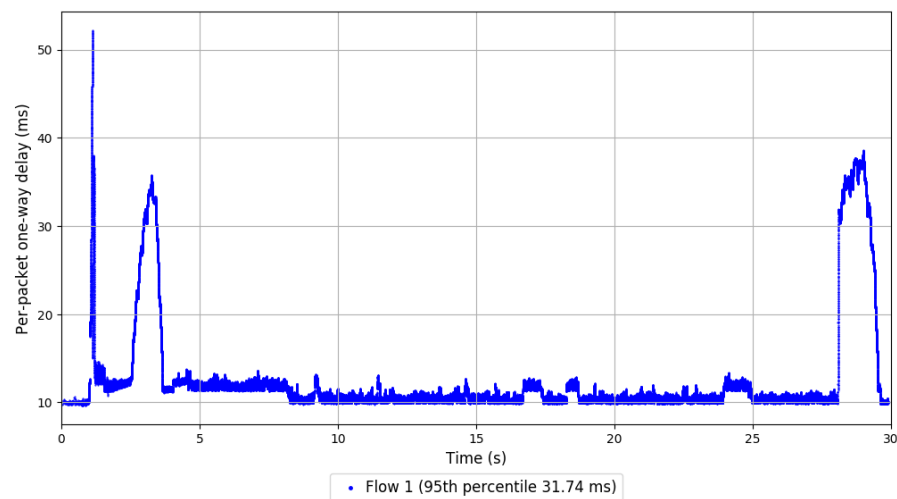
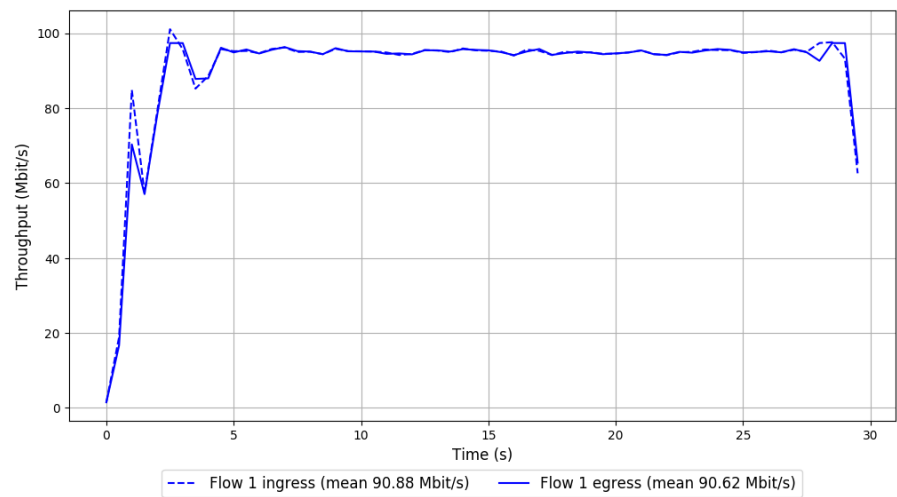
-- Flow 1:

Average throughput: 90.62 Mbit/s

95th percentile per-packet one-way delay: 31.739 ms

Loss rate: 0.29%

Run 6: Report of Vivace-LTE — Data Link



Run 7: Statistics of Vivace-LTE

Start at: 2018-03-13 06:37:21

End at: 2018-03-13 06:37:51

Local clock offset: 2.882 ms

Remote clock offset: 0.479 ms

Below is generated by plot.py at 2018-03-13 08:49:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.28 Mbit/s

95th percentile per-packet one-way delay: 16.502 ms

Loss rate: 0.30%

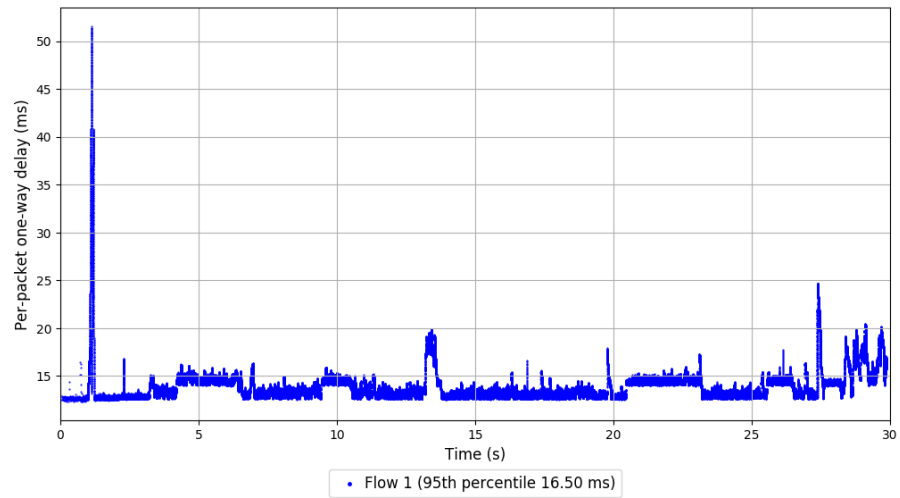
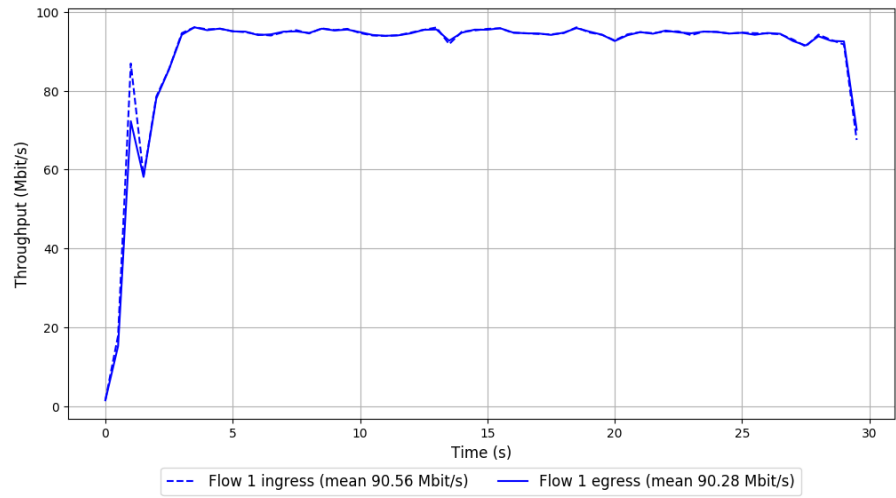
-- Flow 1:

Average throughput: 90.28 Mbit/s

95th percentile per-packet one-way delay: 16.502 ms

Loss rate: 0.30%

Run 7: Report of Vivace-LTE — Data Link



Run 8: Statistics of Vivace-LTE

Start at: 2018-03-13 06:58:42

End at: 2018-03-13 06:59:12

Local clock offset: 5.422 ms

Remote clock offset: 1.578 ms

Below is generated by plot.py at 2018-03-13 08:49:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.71 Mbit/s

95th percentile per-packet one-way delay: 11.798 ms

Loss rate: 0.30%

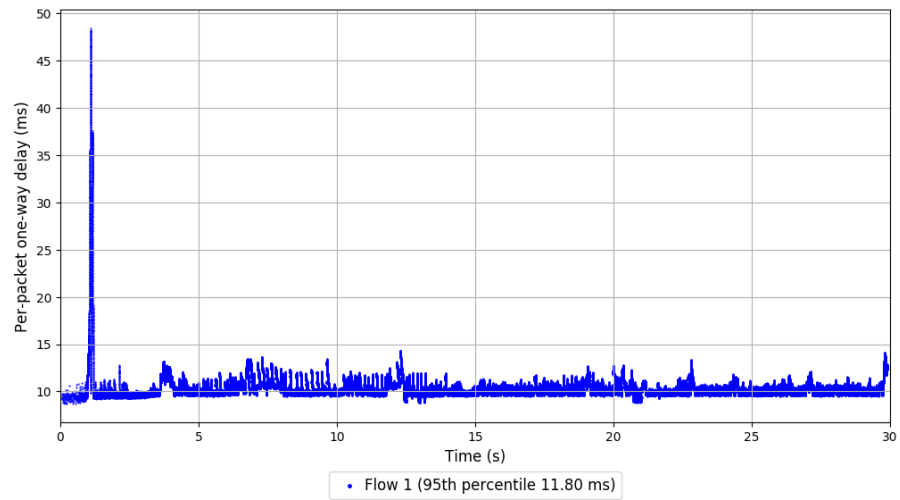
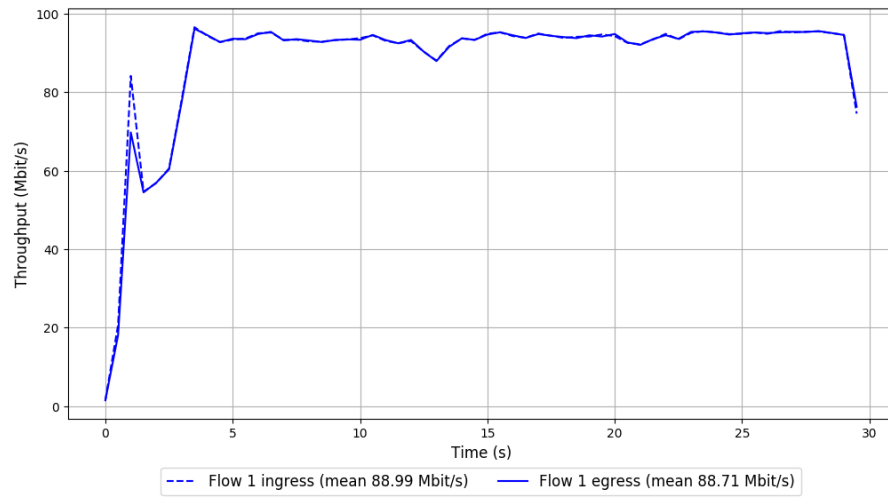
-- Flow 1:

Average throughput: 88.71 Mbit/s

95th percentile per-packet one-way delay: 11.798 ms

Loss rate: 0.30%

Run 8: Report of Vivace-LTE — Data Link



Run 9: Statistics of Vivace-LTE

Start at: 2018-03-13 07:19:38

End at: 2018-03-13 07:20:08

Local clock offset: 0.894 ms

Remote clock offset: 28.458 ms

Below is generated by plot.py at 2018-03-13 08:49:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.82 Mbit/s

95th percentile per-packet one-way delay: 28.628 ms

Loss rate: 0.00%

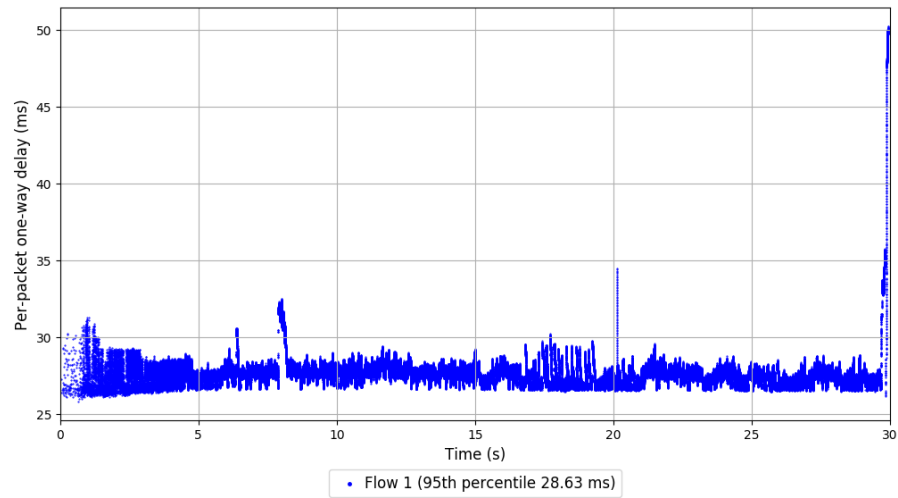
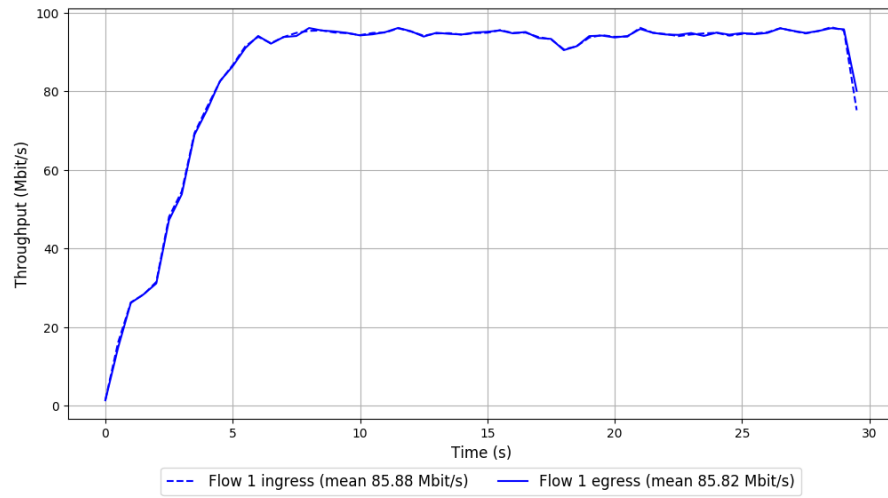
-- Flow 1:

Average throughput: 85.82 Mbit/s

95th percentile per-packet one-way delay: 28.628 ms

Loss rate: 0.00%

Run 9: Report of Vivace-LTE — Data Link



Run 10: Statistics of Vivace-LTE

Start at: 2018-03-13 07:40:22

End at: 2018-03-13 07:40:52

Local clock offset: 4.062 ms

Remote clock offset: 11.418 ms

Below is generated by plot.py at 2018-03-13 08:49:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.24 Mbit/s

95th percentile per-packet one-way delay: 20.394 ms

Loss rate: 0.45%

-- Flow 1:

Average throughput: 87.24 Mbit/s

95th percentile per-packet one-way delay: 20.394 ms

Loss rate: 0.45%

Run 10: Report of Vivace-LTE — Data Link

