

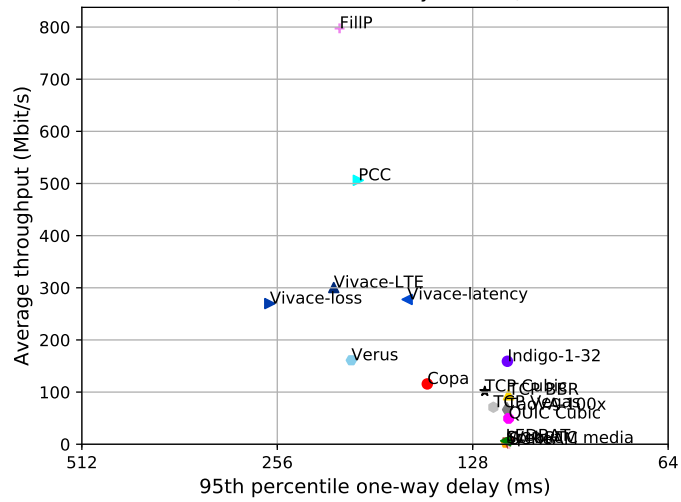
Pantheon Report

Generated at 2018-03-13 03:31:44 (UTC).
Data path: GCE London Ethernet (*local*) → GCE Tokyo 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**).

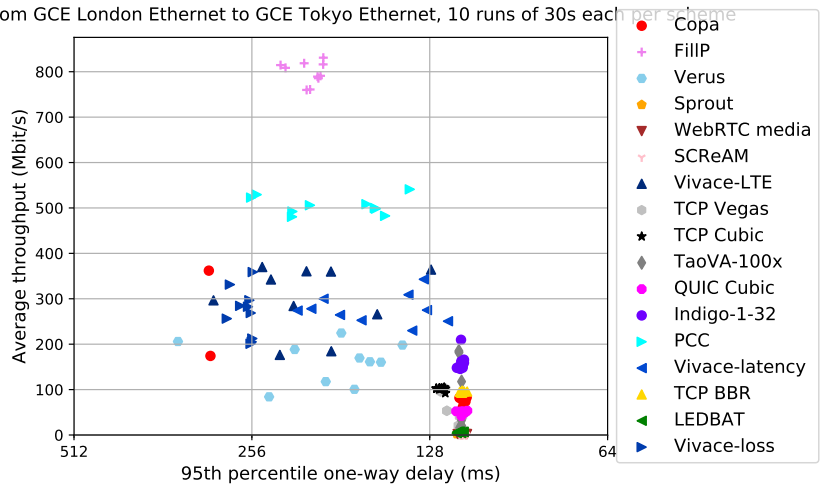
Git summary:

```
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 @ f1a14bffe749737437f61b1eaeab30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/vivace @ 7a4ba531e75b4a6f66f5c4580192120401784ce3
third_party/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

test from GCE London Ethernet to GCE Tokyo Ethernet, 10 runs of 30s each per scheme
(mean of all runs by scheme)



test from GCE London Ethernet to GCE Tokyo 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	94.88	112.75	0.00
TCP Cubic	10	101.42	122.64	0.03
LEDBAT	10	6.45	113.90	0.00
PCC	10	506.12	192.04	1.59
QUIC Cubic	9	49.46	112.71	0.00
SCReAM	10	0.22	112.49	0.01
WebRTC media	10	2.17	112.96	0.01
Sprout	10	2.51	113.68	0.00
TaoVA-100x	9	66.30	113.42	0.00
TCP Vegas	10	70.96	118.96	0.02
Verus	10	161.03	196.89	1.78
Copa	10	115.64	150.38	6.86
FillP	10	797.55	205.25	8.97
Indigo-1-32	10	159.09	113.19	0.01
Vivace-latency	10	277.63	161.53	0.20
Vivace-loss	10	269.73	262.87	4.11
Vivace-LTE	10	300.51	209.54	0.62

Run 1: Statistics of TCP BBR

Start at: 2018-03-12 22:30:41

End at: 2018-03-12 22:31:11

Below is generated by plot.py at 2018-03-13 02:25:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.78 Mbit/s

95th percentile per-packet one-way delay: 110.632 ms

Loss rate: 0.00%

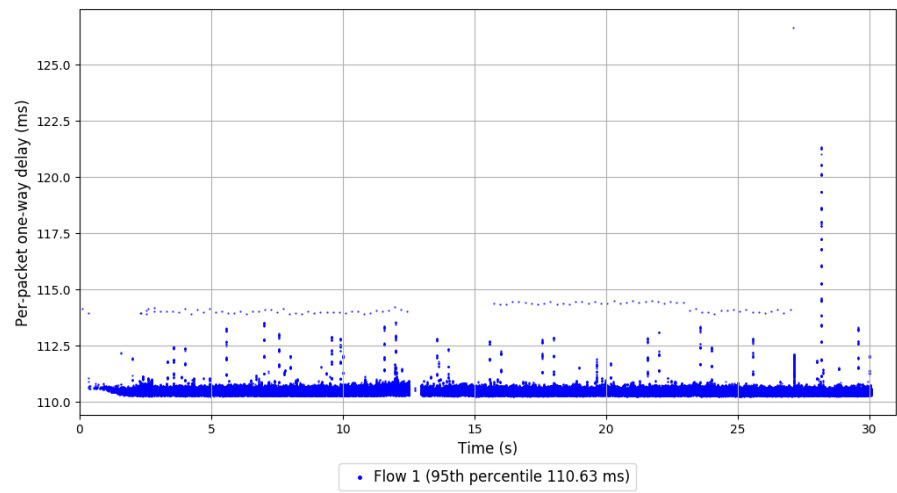
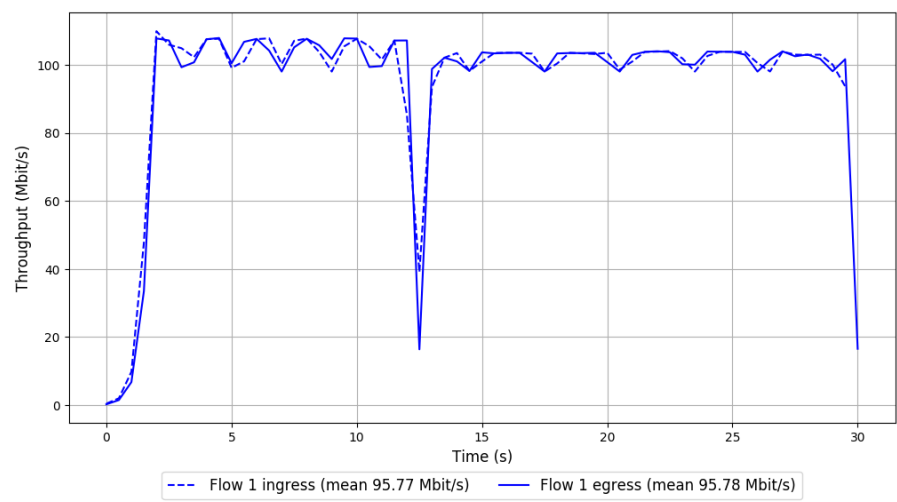
-- Flow 1:

Average throughput: 95.78 Mbit/s

95th percentile per-packet one-way delay: 110.632 ms

Loss rate: 0.00%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-03-12 22:46:02

End at: 2018-03-12 22:46:32

Below is generated by plot.py at 2018-03-13 02:25:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.00 Mbit/s

95th percentile per-packet one-way delay: 113.878 ms

Loss rate: 0.00%

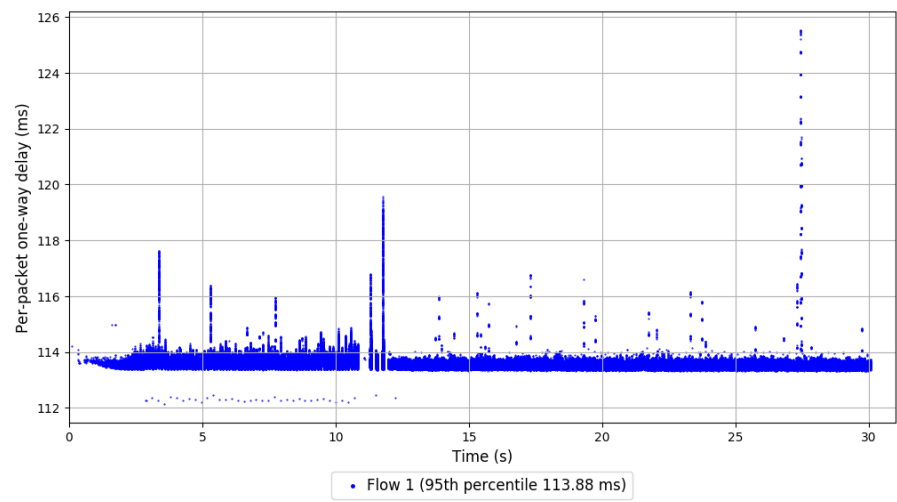
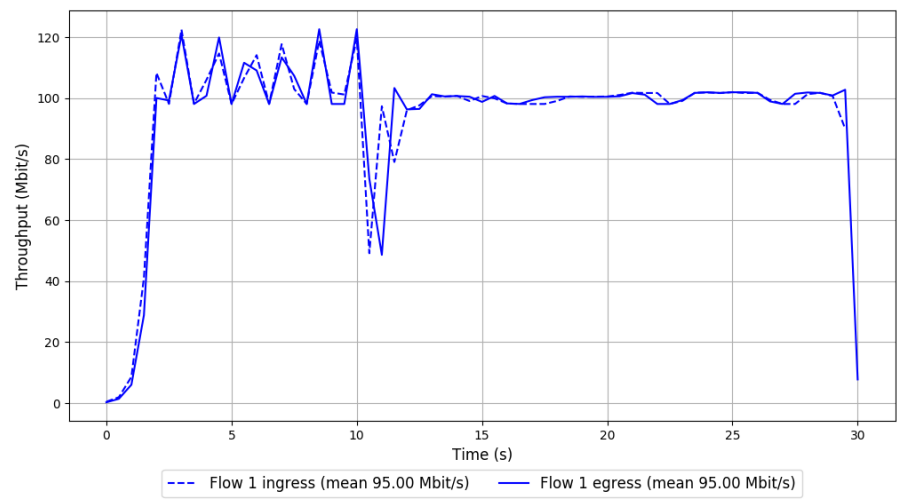
-- Flow 1:

Average throughput: 95.00 Mbit/s

95th percentile per-packet one-way delay: 113.878 ms

Loss rate: 0.00%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-03-12 23:01:11

End at: 2018-03-12 23:01:41

Below is generated by plot.py at 2018-03-13 02:25:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.66 Mbit/s

95th percentile per-packet one-way delay: 112.973 ms

Loss rate: 0.00%

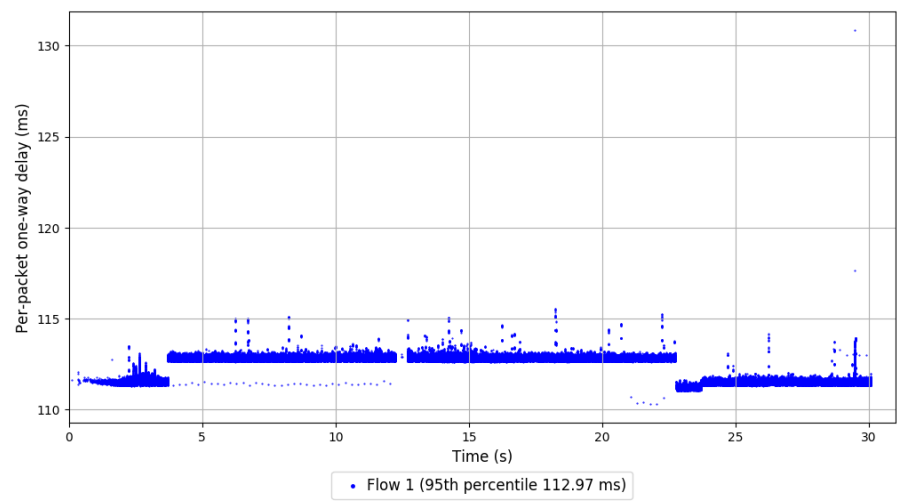
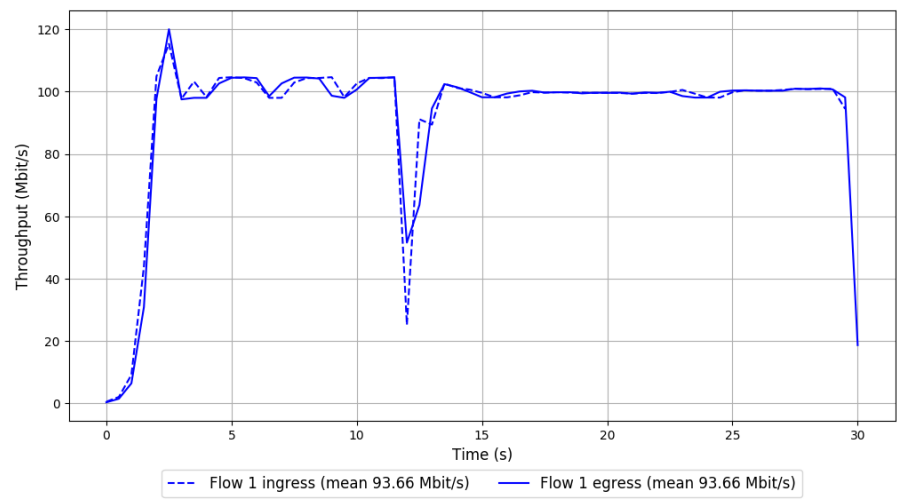
-- Flow 1:

Average throughput: 93.66 Mbit/s

95th percentile per-packet one-way delay: 112.973 ms

Loss rate: 0.00%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-03-12 23:16:22

End at: 2018-03-12 23:16:52

Below is generated by plot.py at 2018-03-13 02:25:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.00 Mbit/s

95th percentile per-packet one-way delay: 111.966 ms

Loss rate: 0.00%

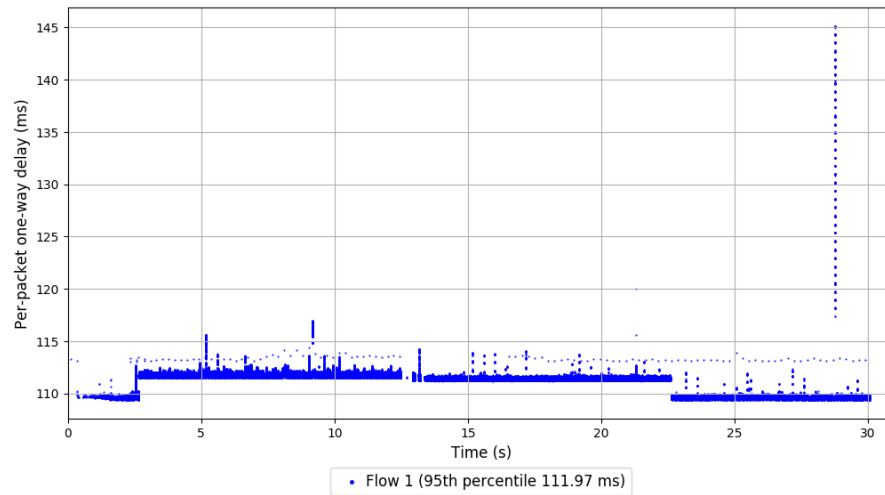
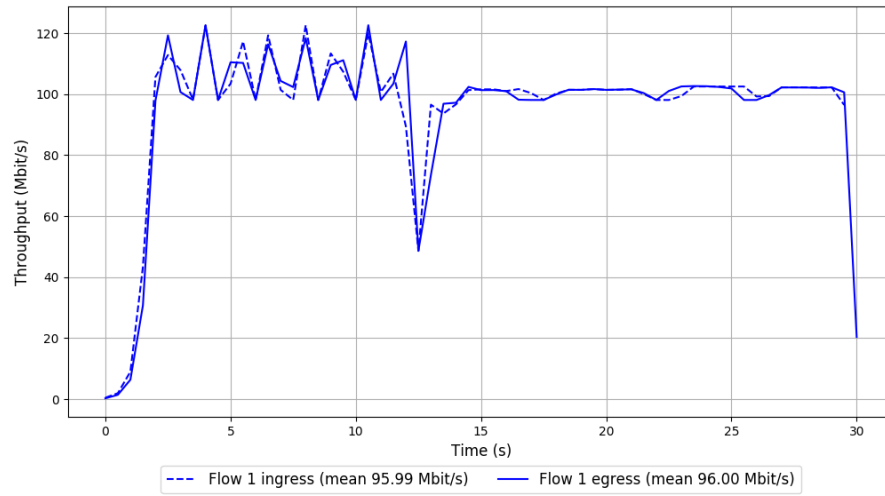
-- Flow 1:

Average throughput: 96.00 Mbit/s

95th percentile per-packet one-way delay: 111.966 ms

Loss rate: 0.00%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-03-12 23:31:31

End at: 2018-03-12 23:32:01

Below is generated by plot.py at 2018-03-13 02:25:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.78 Mbit/s

95th percentile per-packet one-way delay: 113.140 ms

Loss rate: 0.00%

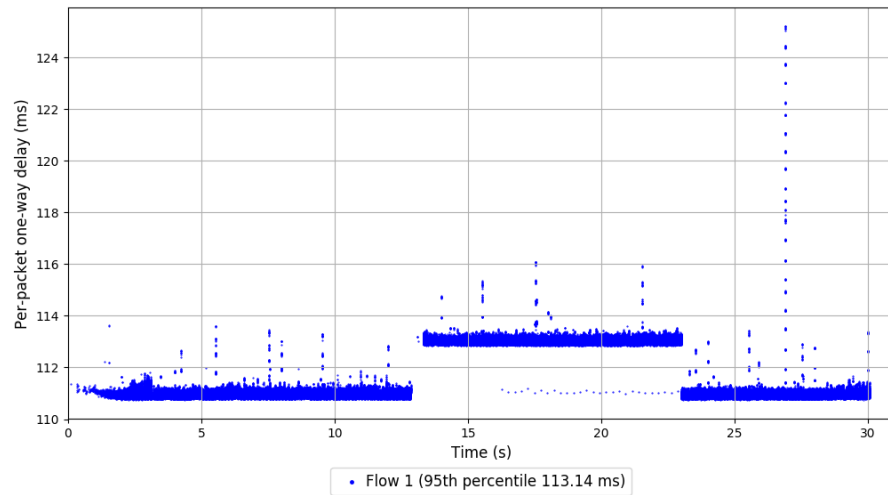
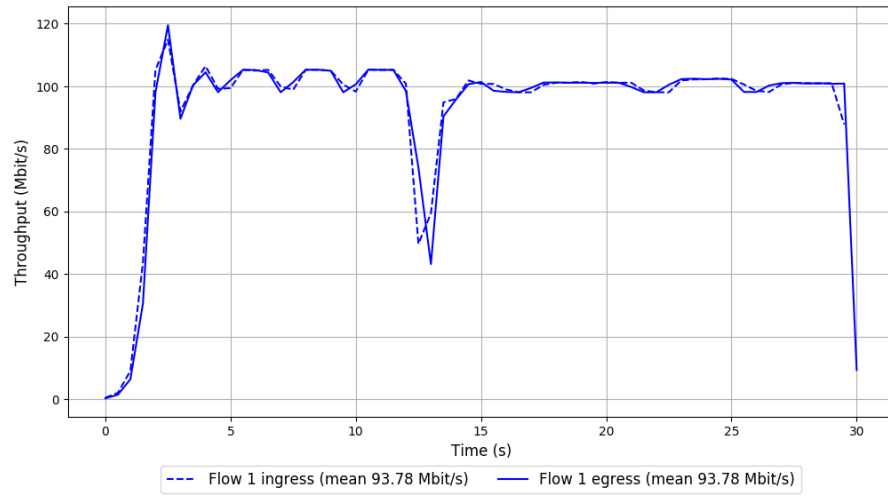
-- Flow 1:

Average throughput: 93.78 Mbit/s

95th percentile per-packet one-way delay: 113.140 ms

Loss rate: 0.00%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-03-12 23:46:37

End at: 2018-03-12 23:47:07

Below is generated by plot.py at 2018-03-13 02:25:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.10 Mbit/s

95th percentile per-packet one-way delay: 113.090 ms

Loss rate: 0.00%

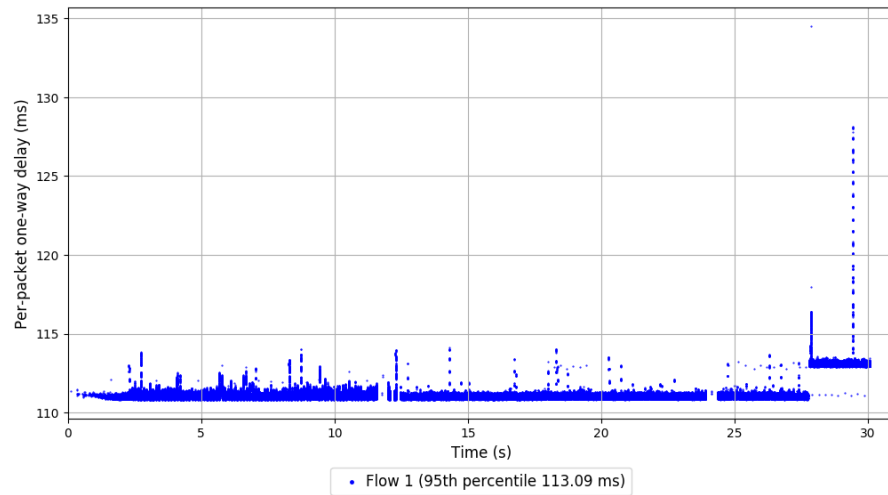
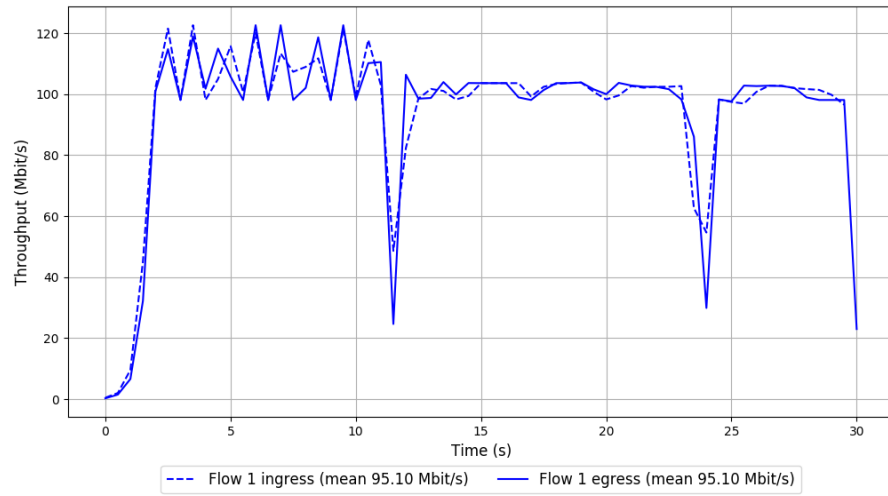
-- Flow 1:

Average throughput: 95.10 Mbit/s

95th percentile per-packet one-way delay: 113.090 ms

Loss rate: 0.00%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-03-13 00:02:02

End at: 2018-03-13 00:02:32

Below is generated by plot.py at 2018-03-13 02:25:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.41 Mbit/s

95th percentile per-packet one-way delay: 113.238 ms

Loss rate: 0.01%

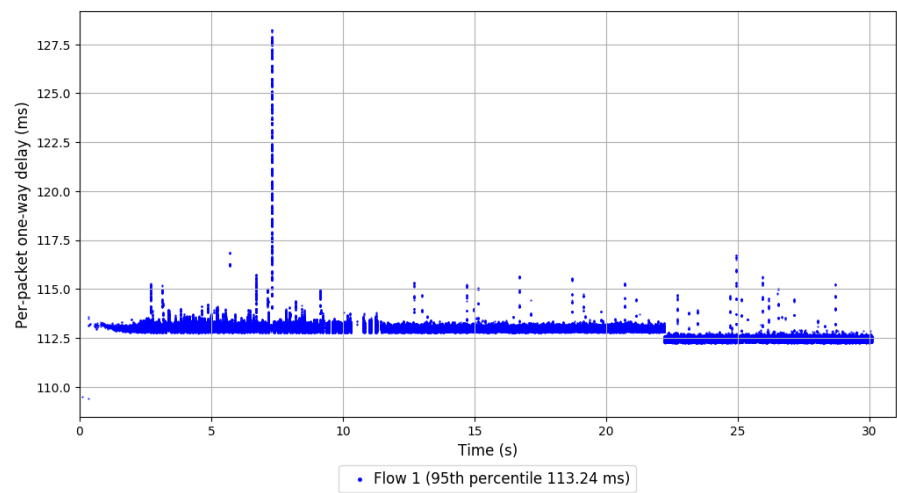
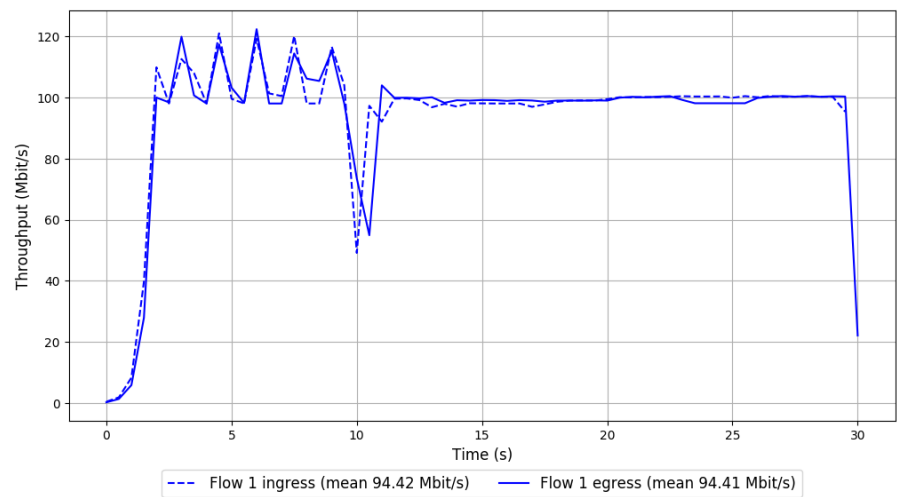
-- Flow 1:

Average throughput: 94.41 Mbit/s

95th percentile per-packet one-way delay: 113.238 ms

Loss rate: 0.01%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-03-13 00:17:20

End at: 2018-03-13 00:17:50

Below is generated by plot.py at 2018-03-13 02:25:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.28 Mbit/s

95th percentile per-packet one-way delay: 113.053 ms

Loss rate: 0.00%

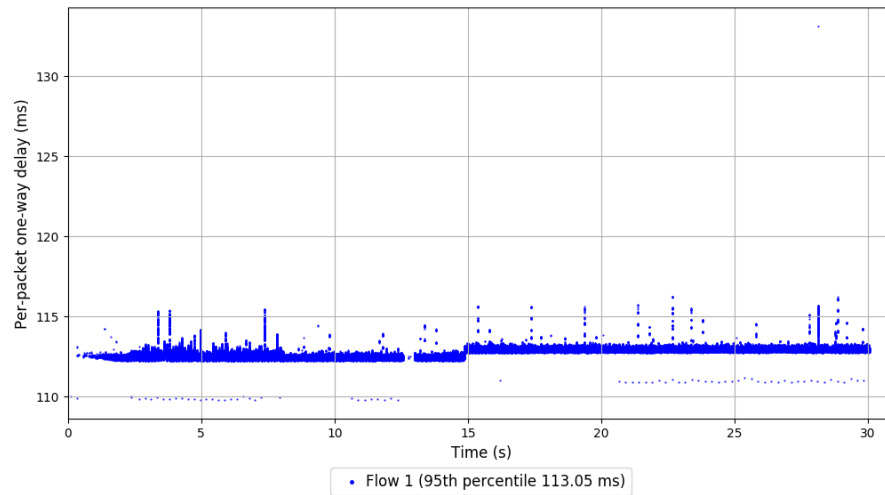
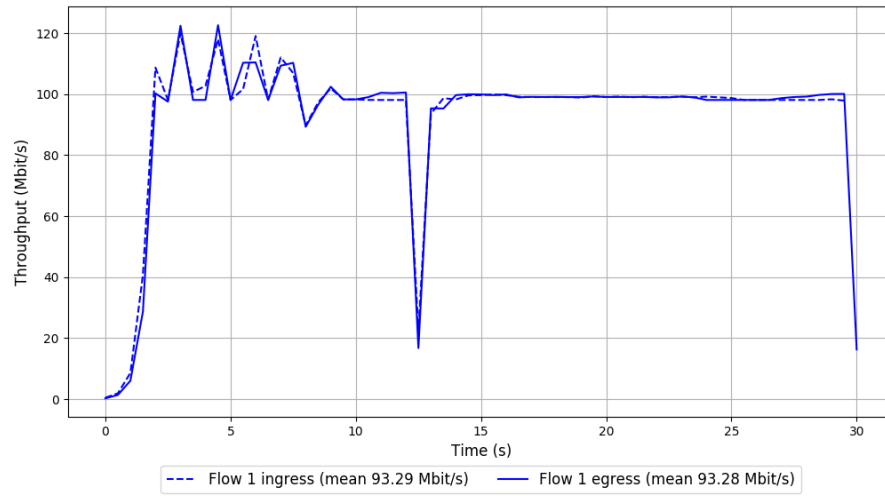
-- Flow 1:

Average throughput: 93.28 Mbit/s

95th percentile per-packet one-way delay: 113.053 ms

Loss rate: 0.00%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-03-13 00:32:25

End at: 2018-03-13 00:32:55

Below is generated by plot.py at 2018-03-13 02:26:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.77 Mbit/s

95th percentile per-packet one-way delay: 112.808 ms

Loss rate: 0.00%

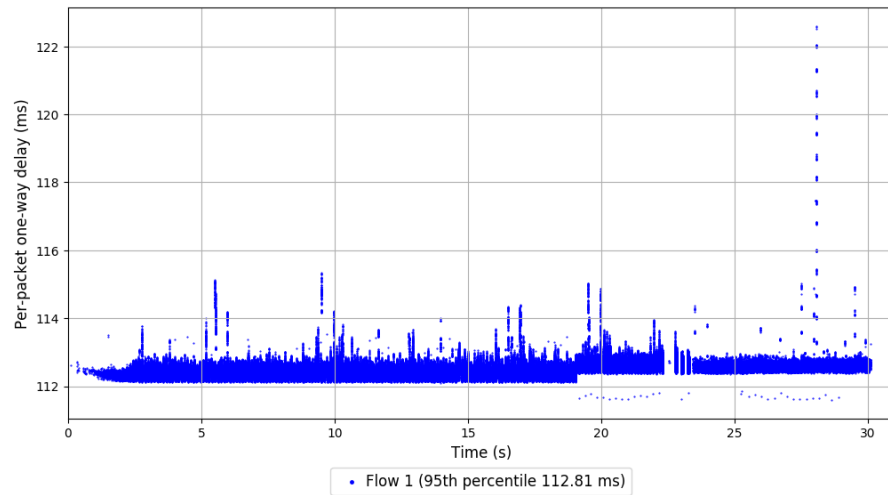
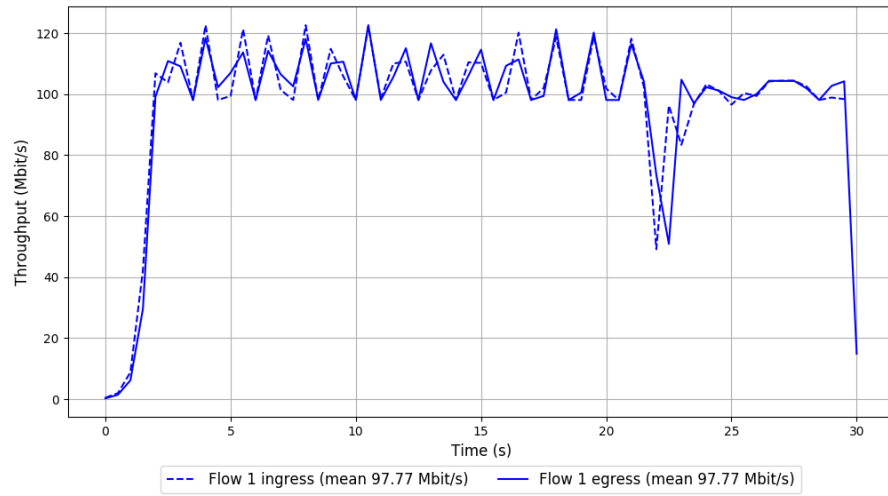
-- Flow 1:

Average throughput: 97.77 Mbit/s

95th percentile per-packet one-way delay: 112.808 ms

Loss rate: 0.00%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-03-13 00:47:37

End at: 2018-03-13 00:48:07

Below is generated by plot.py at 2018-03-13 02:26:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.07 Mbit/s

95th percentile per-packet one-way delay: 112.729 ms

Loss rate: 0.00%

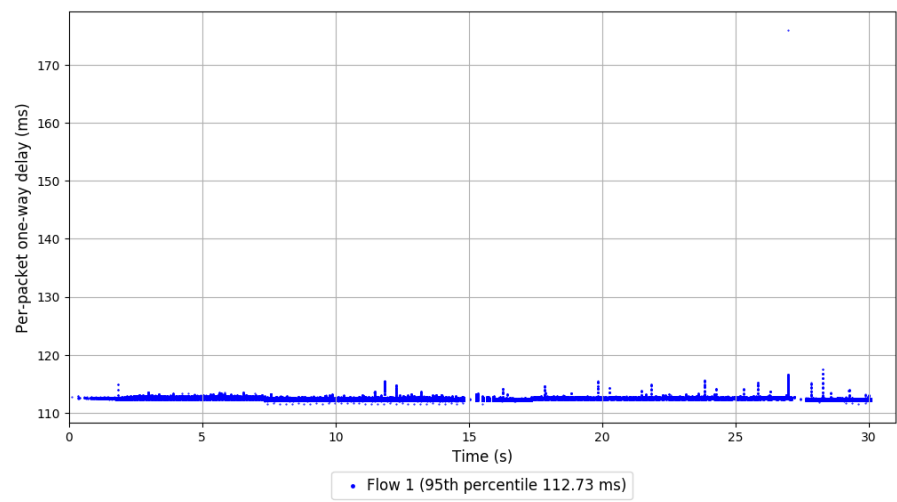
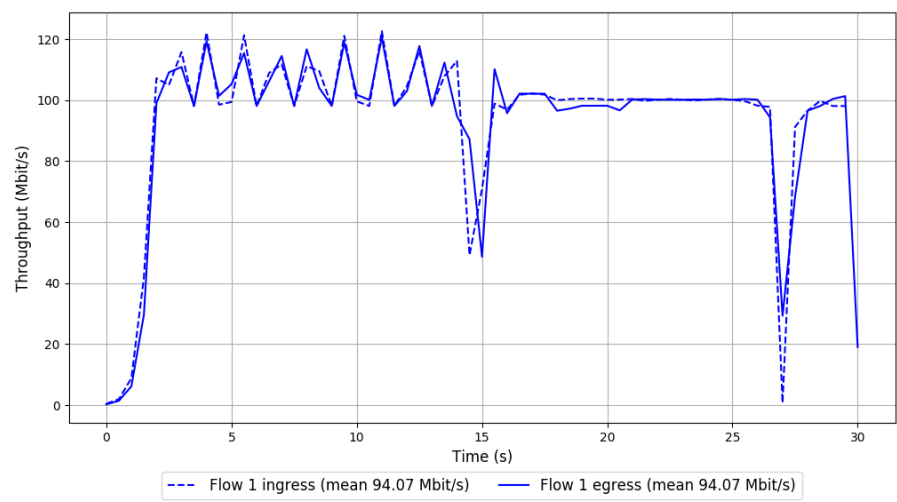
-- Flow 1:

Average throughput: 94.07 Mbit/s

95th percentile per-packet one-way delay: 112.729 ms

Loss rate: 0.00%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-03-12 22:39:16

End at: 2018-03-12 22:39:46

Below is generated by plot.py at 2018-03-13 02:26:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 101.82 Mbit/s

95th percentile per-packet one-way delay: 124.759 ms

Loss rate: 0.00%

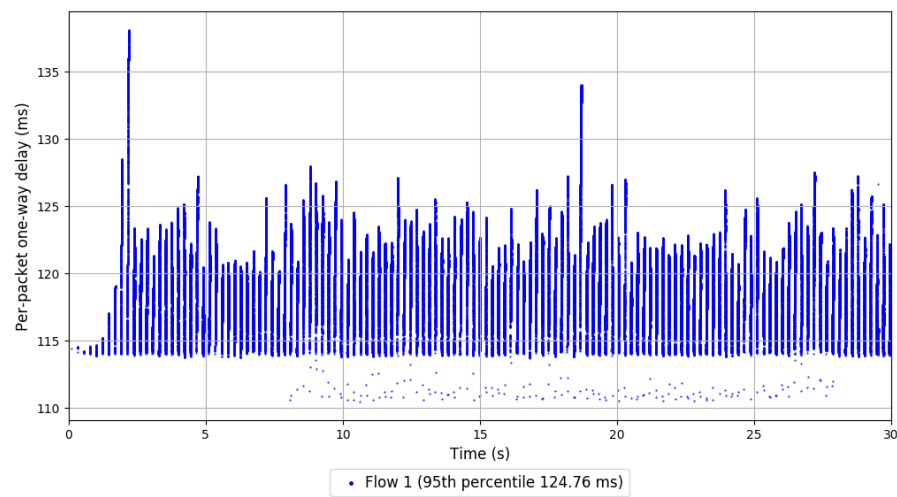
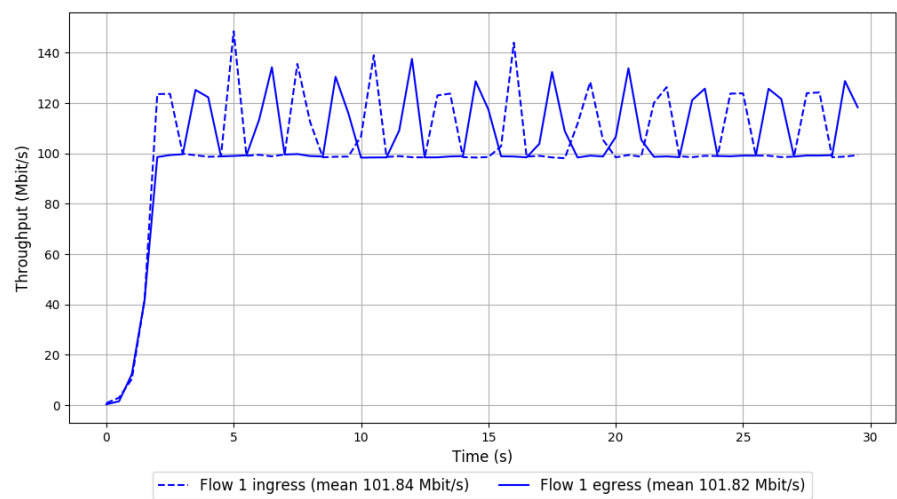
-- Flow 1:

Average throughput: 101.82 Mbit/s

95th percentile per-packet one-way delay: 124.759 ms

Loss rate: 0.00%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-03-12 22:54:42

End at: 2018-03-12 22:55:12

Below is generated by plot.py at 2018-03-13 02:26:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.17 Mbit/s

95th percentile per-packet one-way delay: 120.472 ms

Loss rate: 0.00%

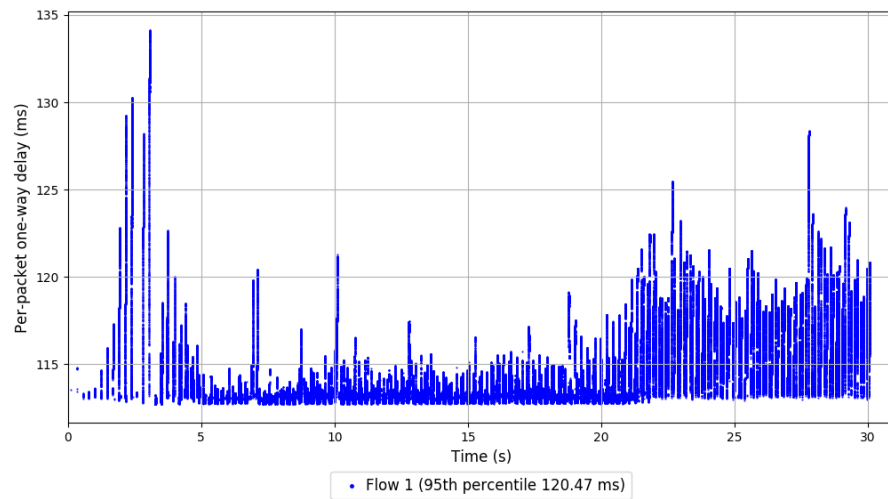
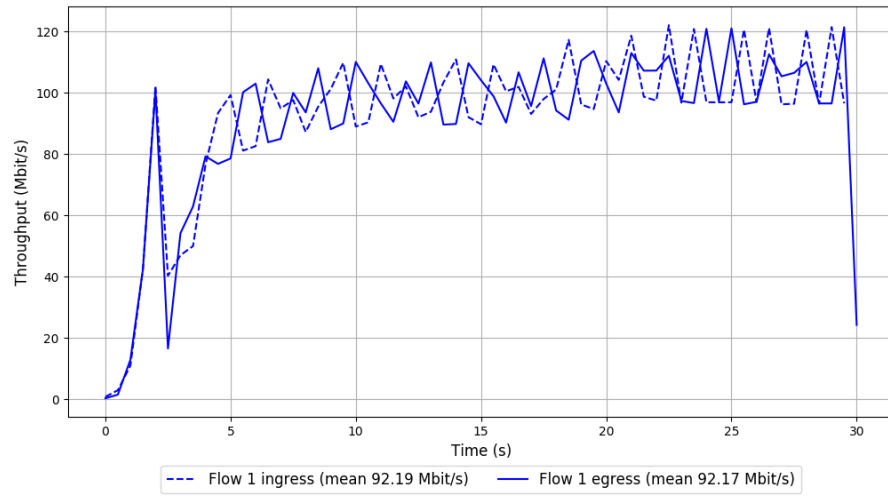
-- Flow 1:

Average throughput: 92.17 Mbit/s

95th percentile per-packet one-way delay: 120.472 ms

Loss rate: 0.00%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-03-12 23:09:42

End at: 2018-03-12 23:10:12

Below is generated by plot.py at 2018-03-13 02:26:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 104.88 Mbit/s

95th percentile per-packet one-way delay: 120.992 ms

Loss rate: 0.00%

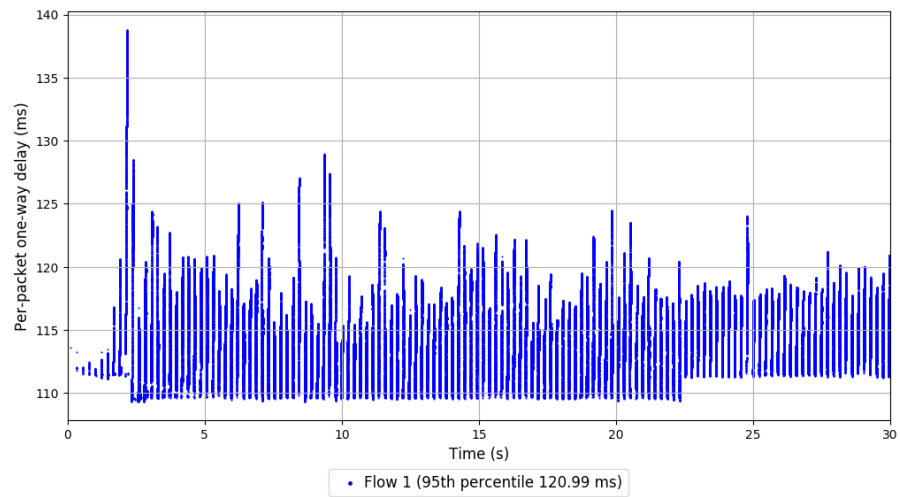
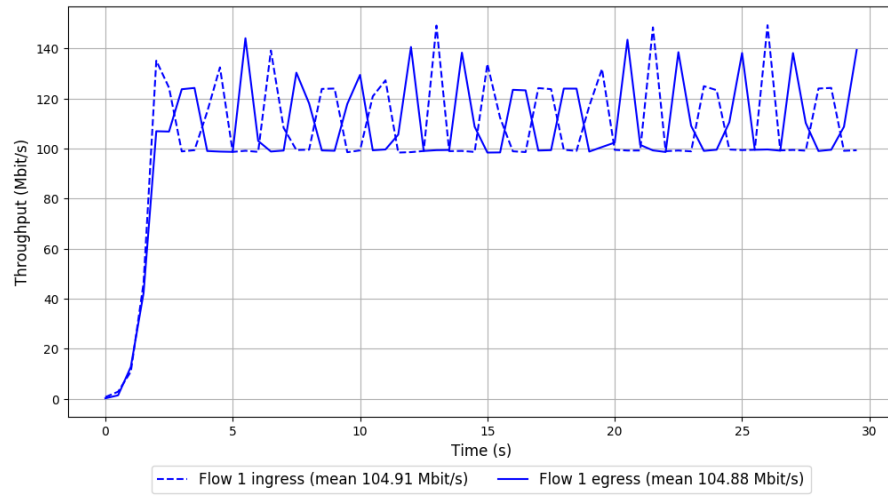
-- Flow 1:

Average throughput: 104.88 Mbit/s

95th percentile per-packet one-way delay: 120.992 ms

Loss rate: 0.00%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-03-12 23:24:56

End at: 2018-03-12 23:25:26

Below is generated by plot.py at 2018-03-13 02:26:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 100.44 Mbit/s

95th percentile per-packet one-way delay: 123.424 ms

Loss rate: 0.00%

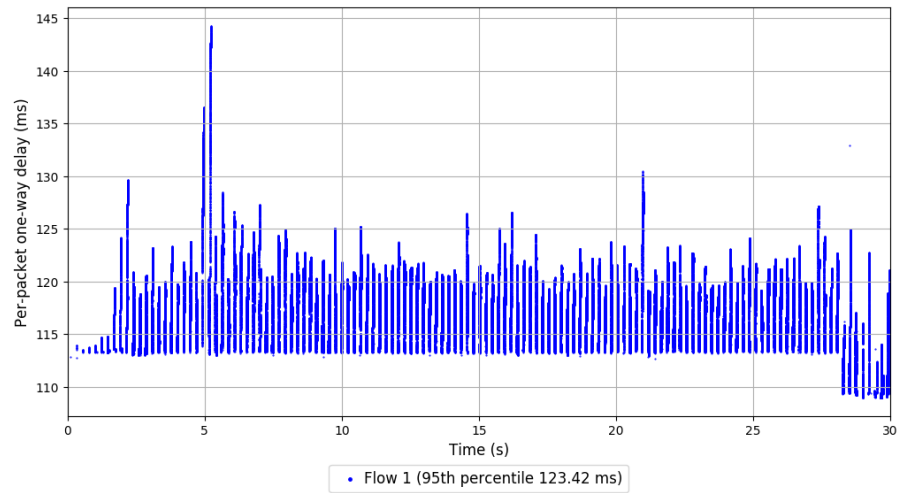
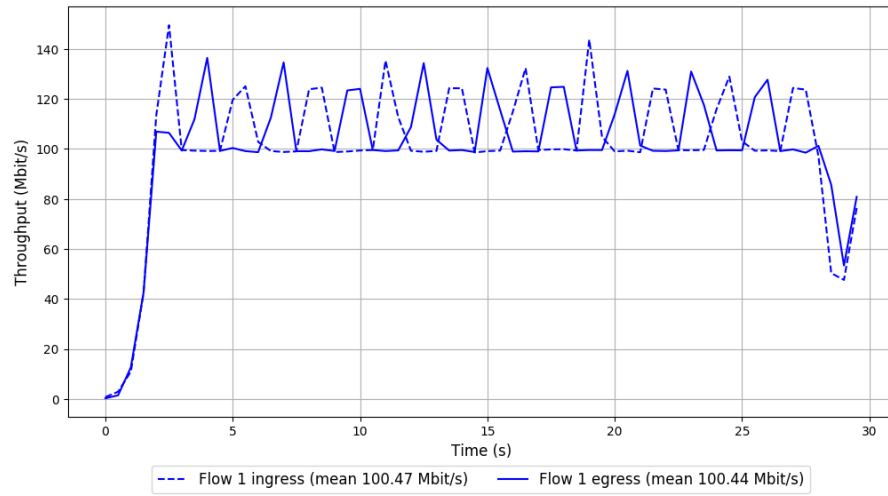
-- Flow 1:

Average throughput: 100.44 Mbit/s

95th percentile per-packet one-way delay: 123.424 ms

Loss rate: 0.00%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-03-12 23:40:04

End at: 2018-03-12 23:40:34

Below is generated by plot.py at 2018-03-13 02:26:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 103.15 Mbit/s

95th percentile per-packet one-way delay: 123.156 ms

Loss rate: 0.00%

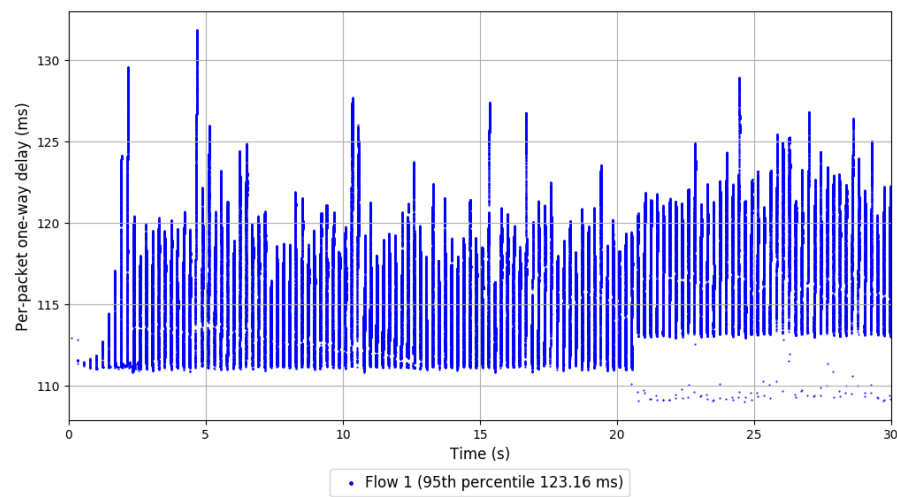
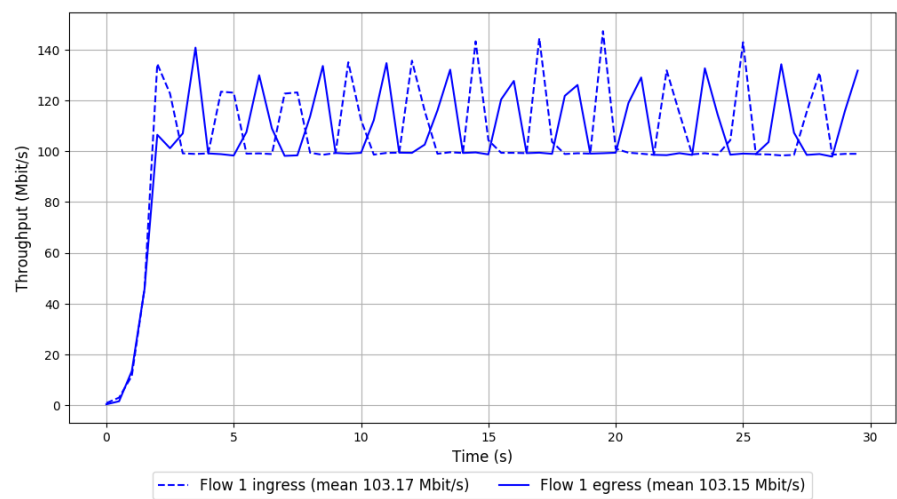
-- Flow 1:

Average throughput: 103.15 Mbit/s

95th percentile per-packet one-way delay: 123.156 ms

Loss rate: 0.00%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-03-12 23:55:06

End at: 2018-03-12 23:55:36

Below is generated by plot.py at 2018-03-13 02:26:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 103.11 Mbit/s

95th percentile per-packet one-way delay: 122.130 ms

Loss rate: 0.07%

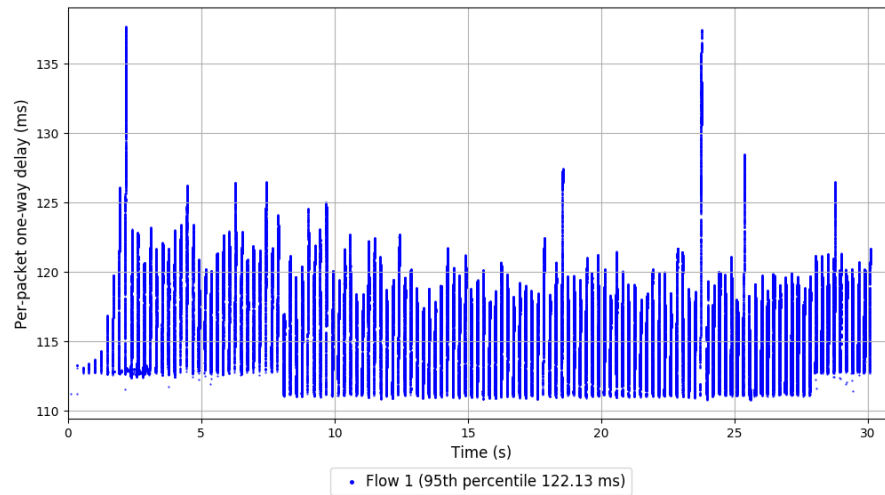
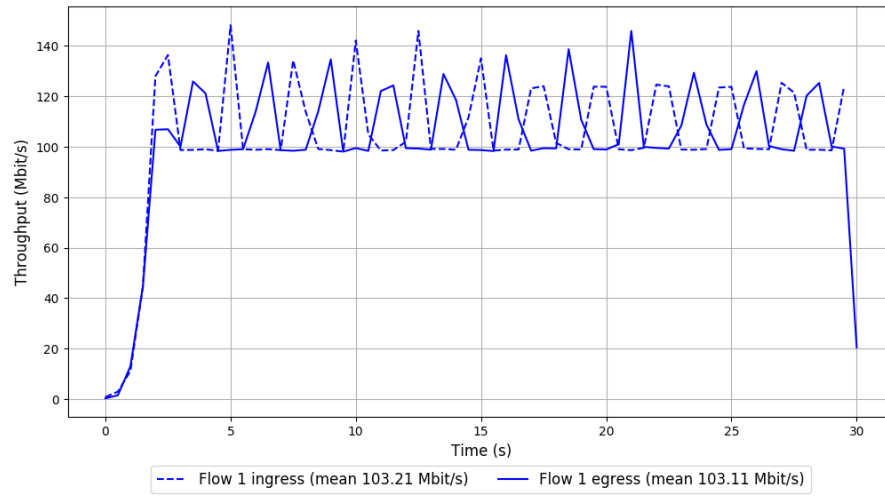
-- Flow 1:

Average throughput: 103.11 Mbit/s

95th percentile per-packet one-way delay: 122.130 ms

Loss rate: 0.07%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-03-13 00:10:26

End at: 2018-03-13 00:10:56

Below is generated by plot.py at 2018-03-13 02:28:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 102.80 Mbit/s

95th percentile per-packet one-way delay: 124.792 ms

Loss rate: 0.00%

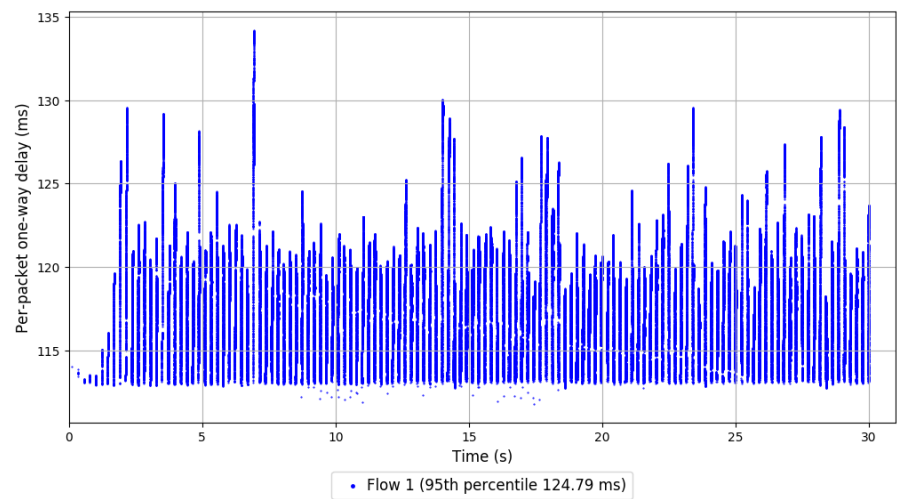
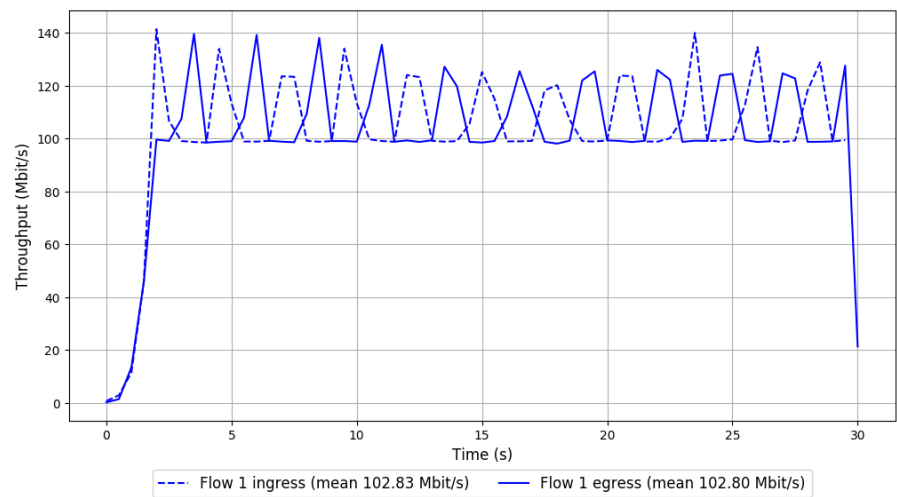
-- Flow 1:

Average throughput: 102.80 Mbit/s

95th percentile per-packet one-way delay: 124.792 ms

Loss rate: 0.00%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-03-13 00:25:53

End at: 2018-03-13 00:26:23

Below is generated by plot.py at 2018-03-13 02:28:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 102.74 Mbit/s

95th percentile per-packet one-way delay: 123.403 ms

Loss rate: 0.17%

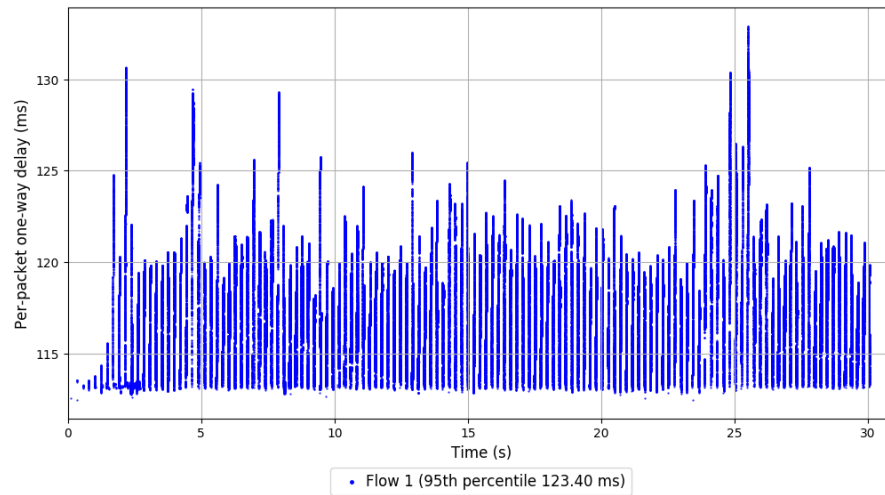
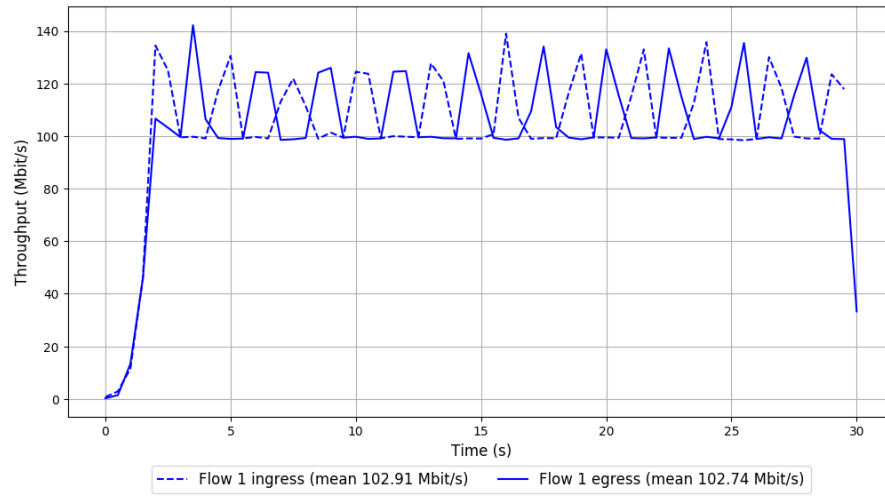
-- Flow 1:

Average throughput: 102.74 Mbit/s

95th percentile per-packet one-way delay: 123.403 ms

Loss rate: 0.17%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-03-13 00:41:03

End at: 2018-03-13 00:41:33

Below is generated by plot.py at 2018-03-13 02:28:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 101.06 Mbit/s

95th percentile per-packet one-way delay: 122.787 ms

Loss rate: 0.03%

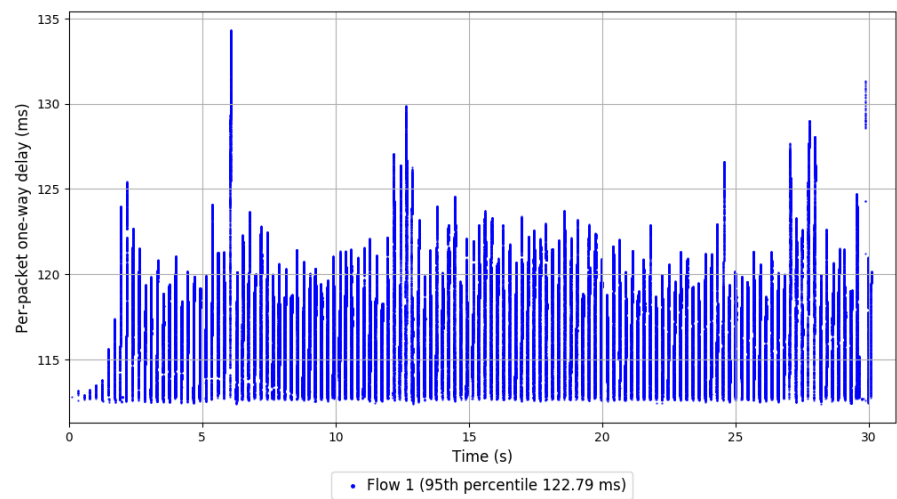
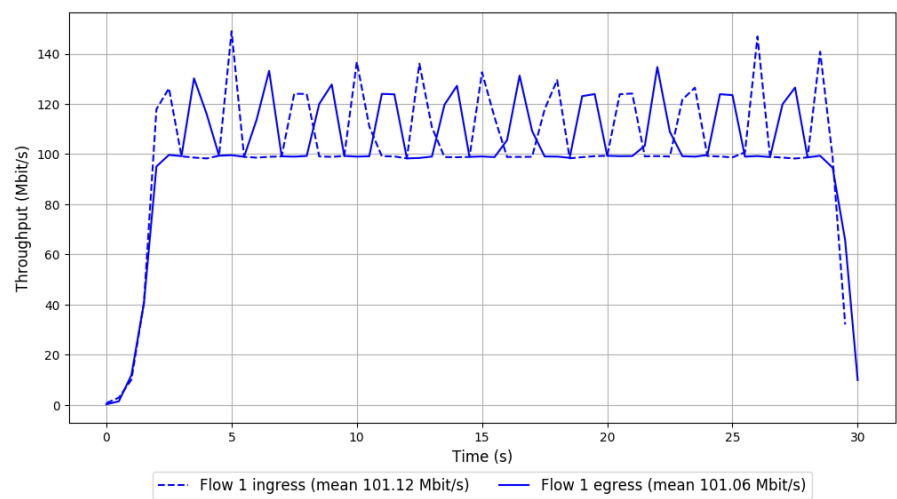
-- Flow 1:

Average throughput: 101.06 Mbit/s

95th percentile per-packet one-way delay: 122.787 ms

Loss rate: 0.03%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-03-13 00:56:16

End at: 2018-03-13 00:56:46

Below is generated by plot.py at 2018-03-13 02:28:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 102.01 Mbit/s

95th percentile per-packet one-way delay: 120.469 ms

Loss rate: 0.00%

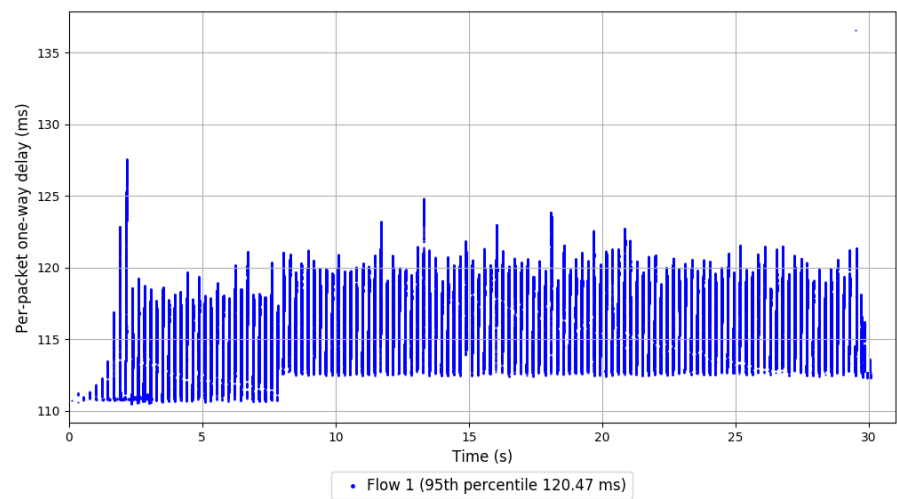
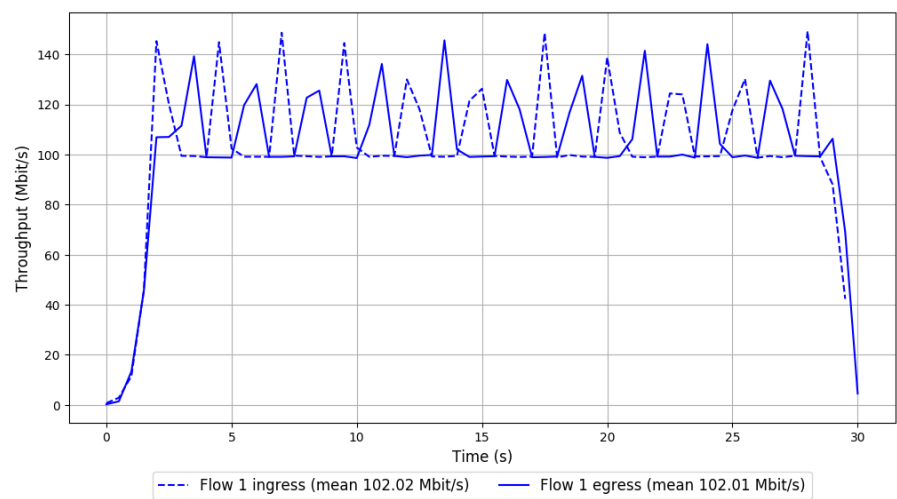
-- Flow 1:

Average throughput: 102.01 Mbit/s

95th percentile per-packet one-way delay: 120.469 ms

Loss rate: 0.00%

Run 10: Report of TCP Cubic — Data Link

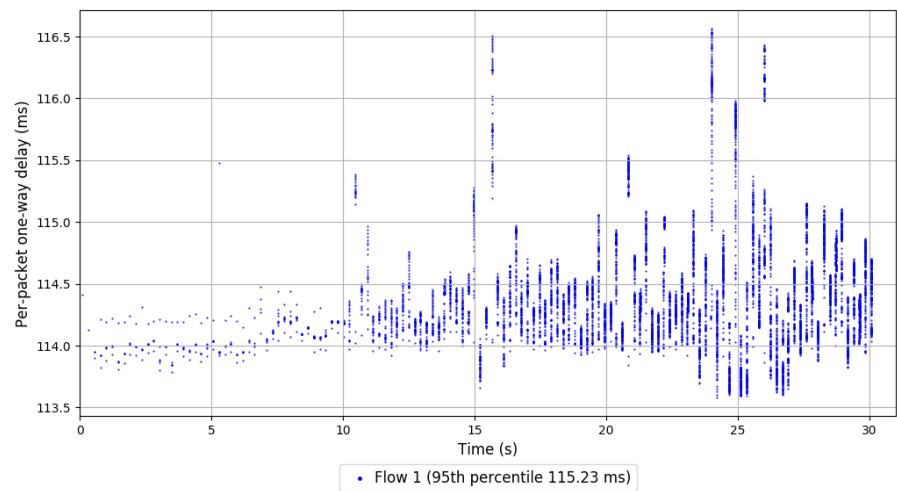
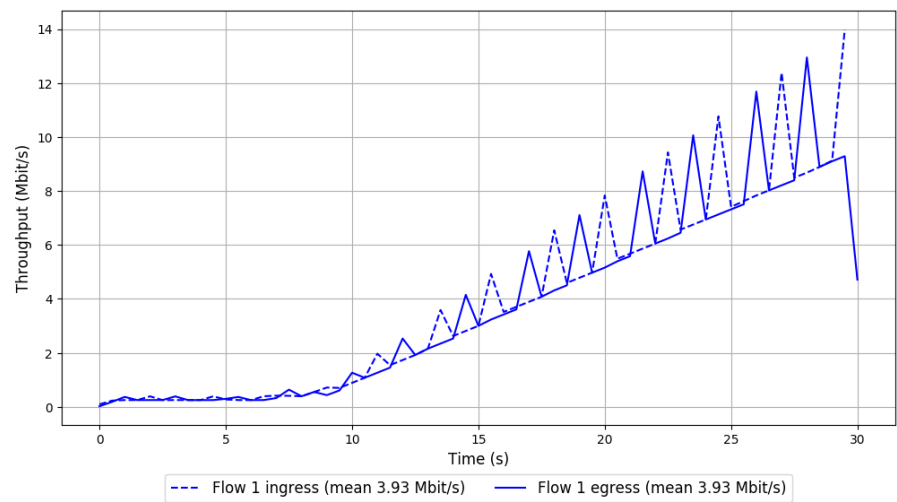


```
Run 1: Statistics of LEDBAT

Start at: 2018-03-12 22:31:27
End at: 2018-03-12 22:31:57

# Below is generated by plot.py at 2018-03-13 02:28:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 3.93 Mbit/s
95th percentile per-packet one-way delay: 115.232 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 3.93 Mbit/s
95th percentile per-packet one-way delay: 115.232 ms
Loss rate: 0.00%
```

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-03-12 22:46:48

End at: 2018-03-12 22:47:18

Below is generated by plot.py at 2018-03-13 02:28:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.67 Mbit/s

95th percentile per-packet one-way delay: 114.908 ms

Loss rate: 0.00%

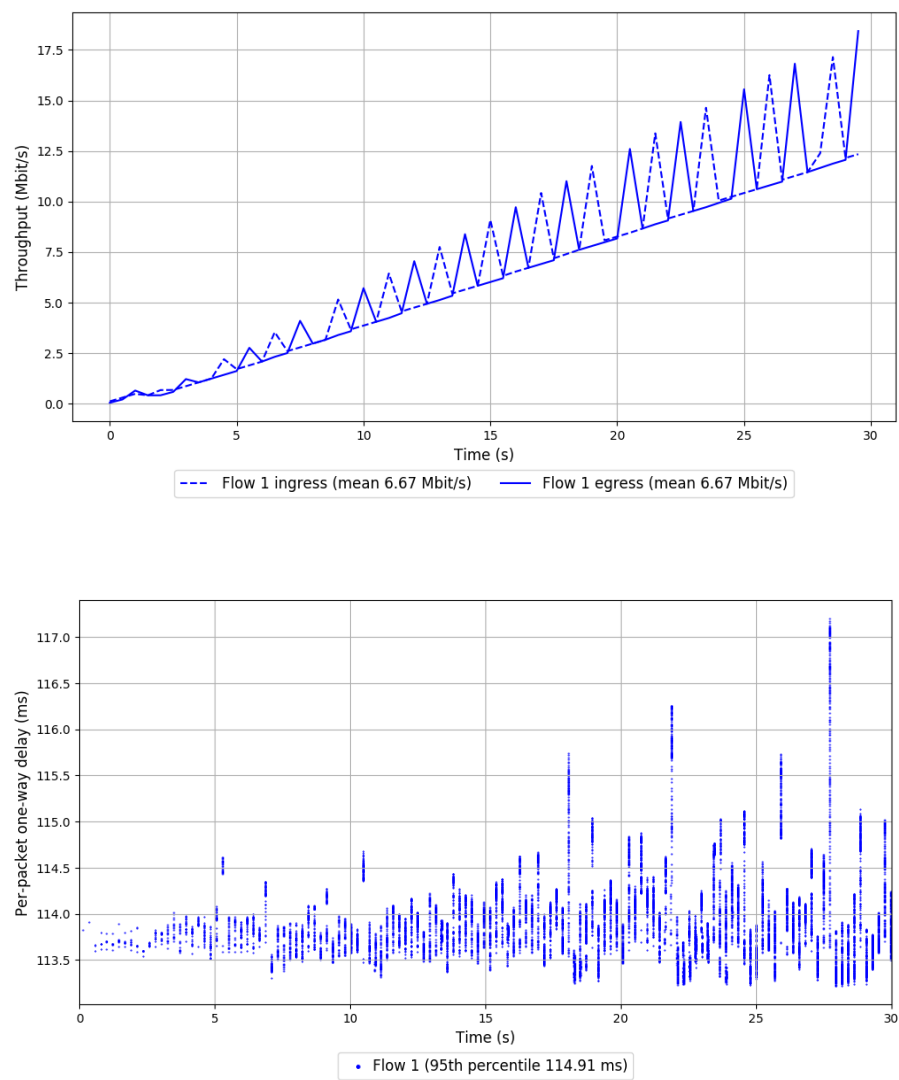
-- Flow 1:

Average throughput: 6.67 Mbit/s

95th percentile per-packet one-way delay: 114.908 ms

Loss rate: 0.00%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-03-12 23:01:56

End at: 2018-03-12 23:02:27

Below is generated by plot.py at 2018-03-13 02:28:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.12 Mbit/s

95th percentile per-packet one-way delay: 112.171 ms

Loss rate: 0.00%

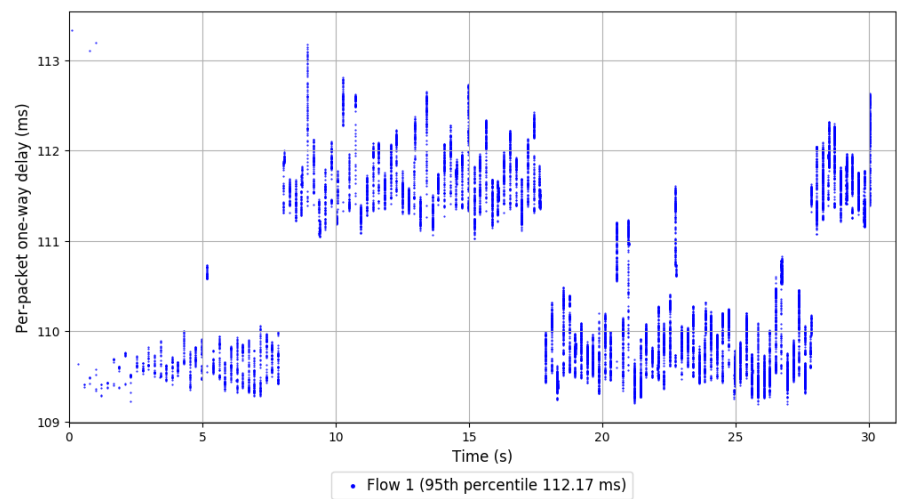
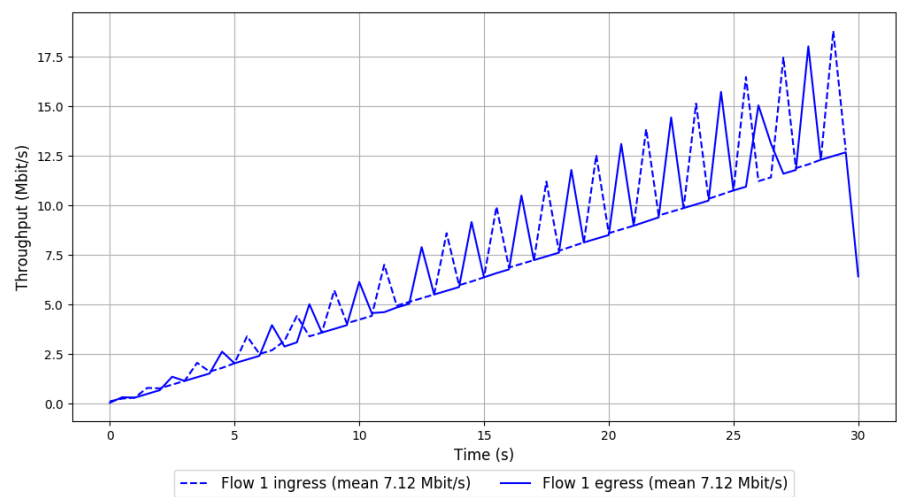
-- Flow 1:

Average throughput: 7.12 Mbit/s

95th percentile per-packet one-way delay: 112.171 ms

Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-03-12 23:17:08

End at: 2018-03-12 23:17:38

Below is generated by plot.py at 2018-03-13 02:28:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.33 Mbit/s

95th percentile per-packet one-way delay: 113.231 ms

Loss rate: 0.00%

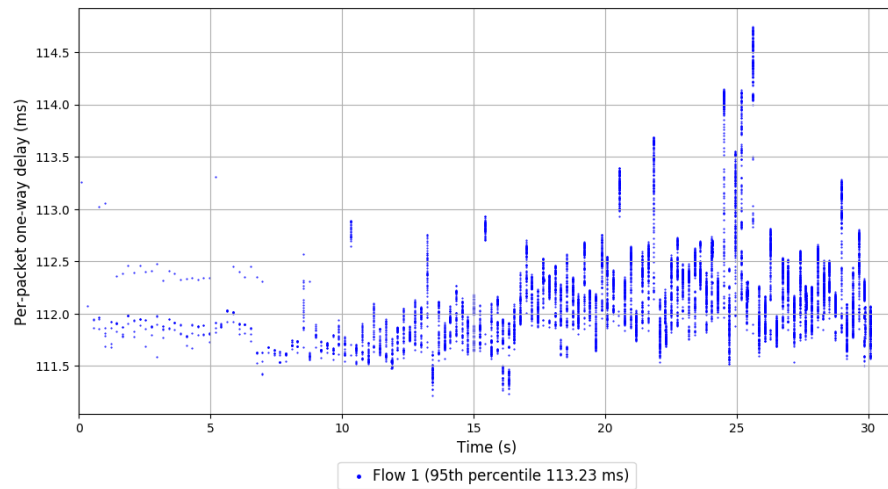
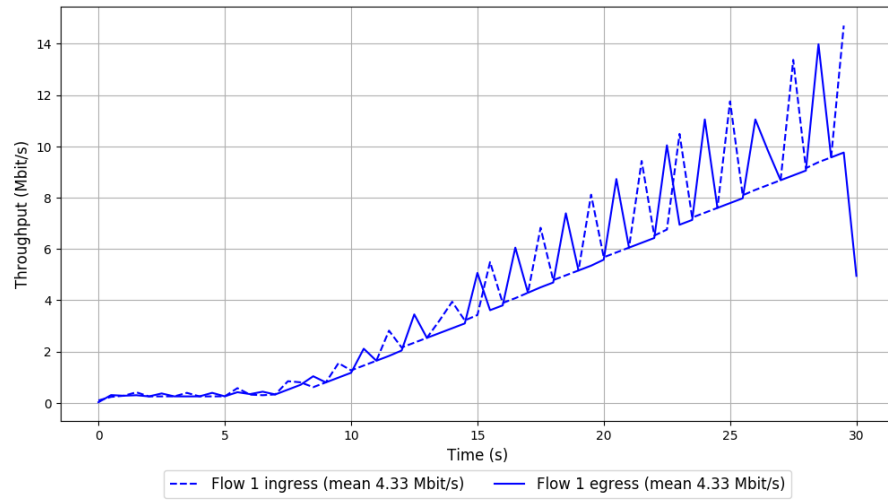
-- Flow 1:

Average throughput: 4.33 Mbit/s

95th percentile per-packet one-way delay: 113.231 ms

Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-03-12 23:32:17

End at: 2018-03-12 23:32:47

Below is generated by plot.py at 2018-03-13 02:28:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.95 Mbit/s

95th percentile per-packet one-way delay: 112.351 ms

Loss rate: 0.00%

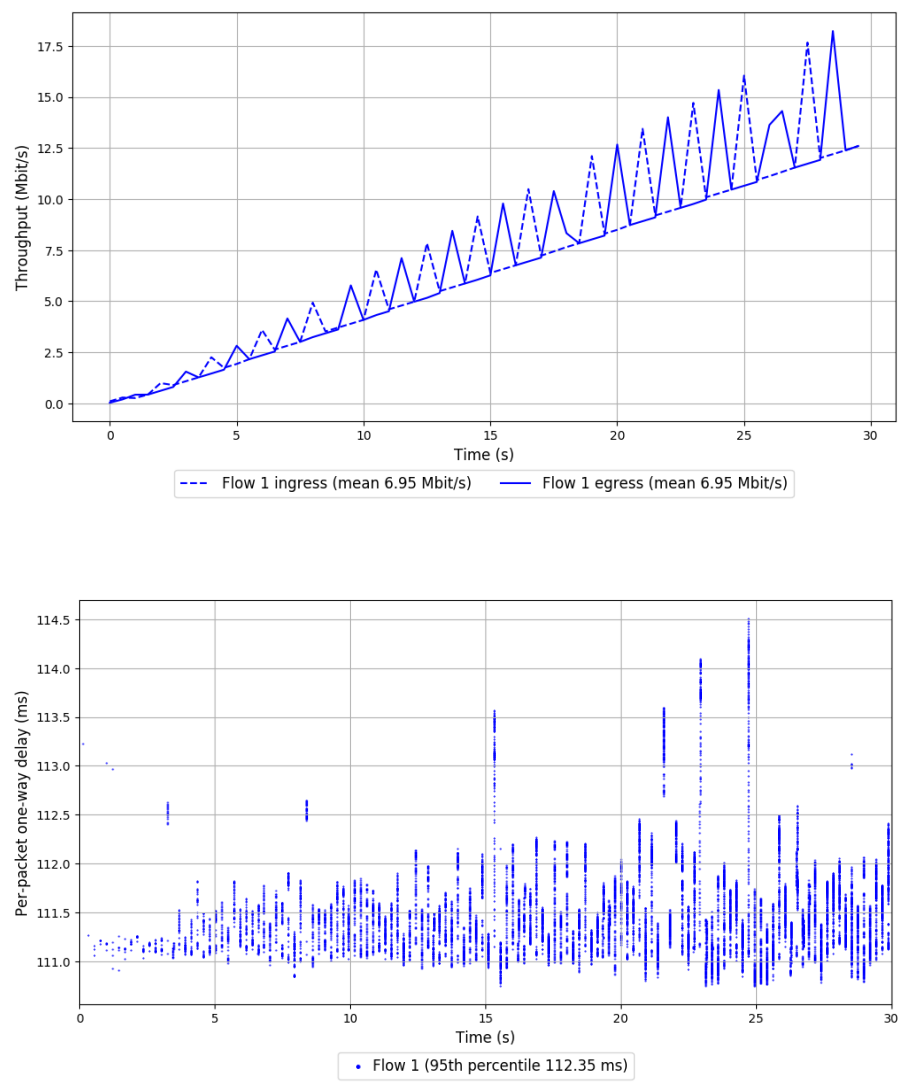
-- Flow 1:

Average throughput: 6.95 Mbit/s

95th percentile per-packet one-way delay: 112.351 ms

Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-03-12 23:47:23

End at: 2018-03-12 23:47:53

Below is generated by plot.py at 2018-03-13 02:28:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.08 Mbit/s

95th percentile per-packet one-way delay: 114.311 ms

Loss rate: 0.00%

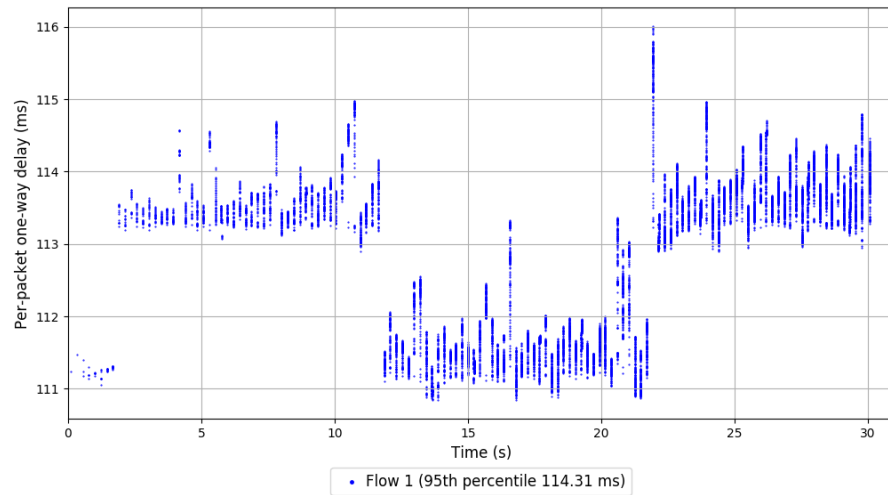
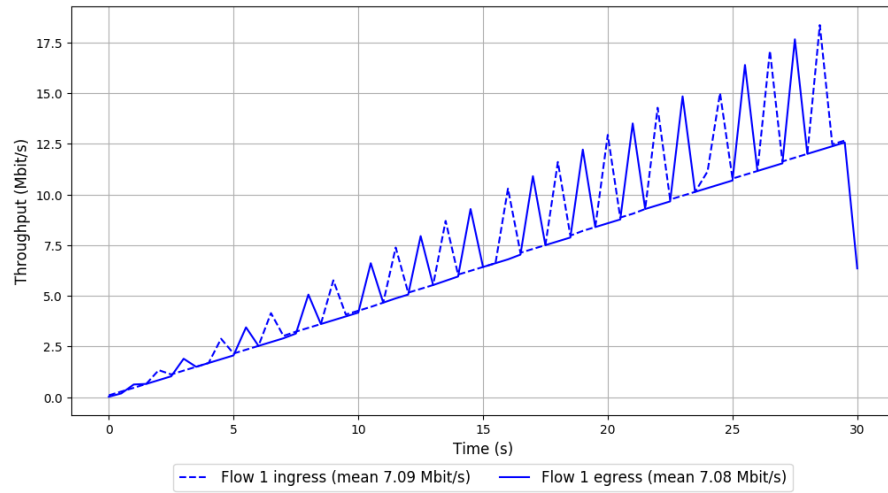
-- Flow 1:

Average throughput: 7.08 Mbit/s

95th percentile per-packet one-way delay: 114.311 ms

Loss rate: 0.00%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-03-13 00:02:48

End at: 2018-03-13 00:03:18

Below is generated by plot.py at 2018-03-13 02:28:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.00 Mbit/s

95th percentile per-packet one-way delay: 114.429 ms

Loss rate: 0.00%

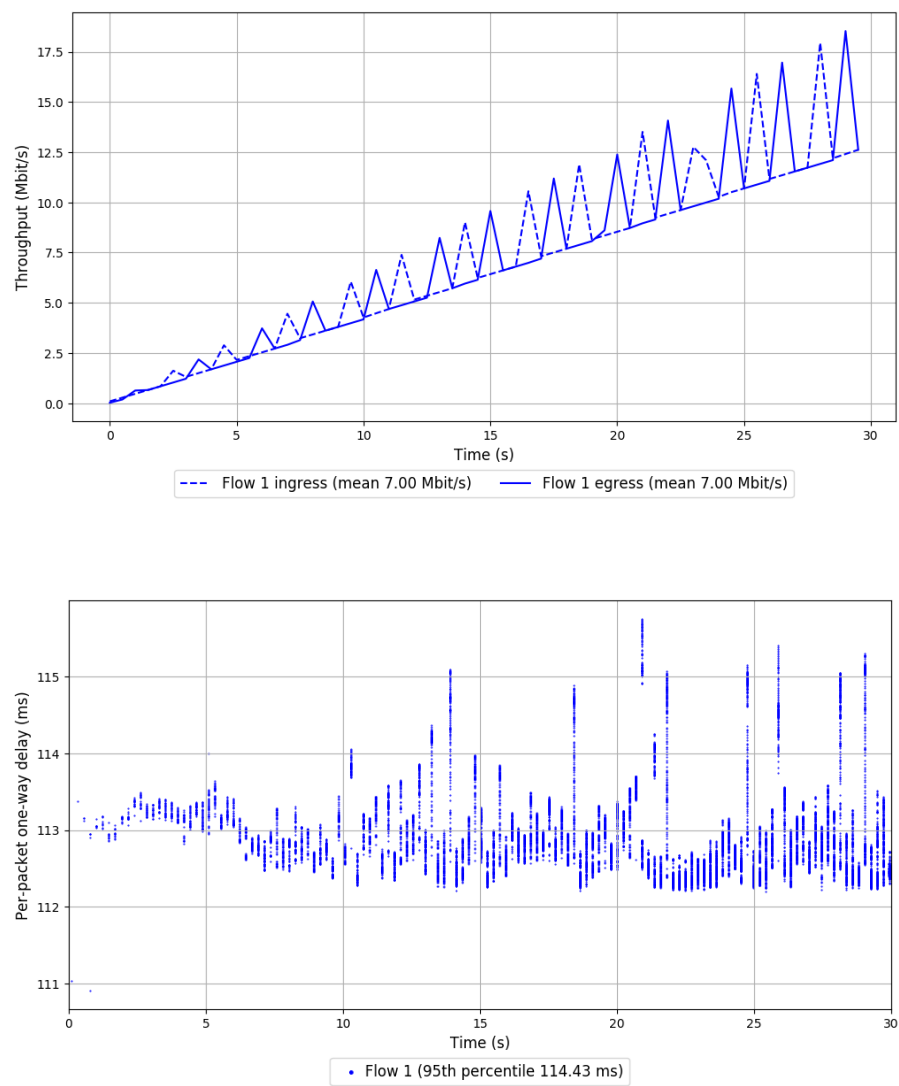
-- Flow 1:

Average throughput: 7.00 Mbit/s

95th percentile per-packet one-way delay: 114.429 ms

Loss rate: 0.00%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-03-13 00:18:05

End at: 2018-03-13 00:18:35

Below is generated by plot.py at 2018-03-13 02:28:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.14 Mbit/s

95th percentile per-packet one-way delay: 114.836 ms

Loss rate: 0.00%

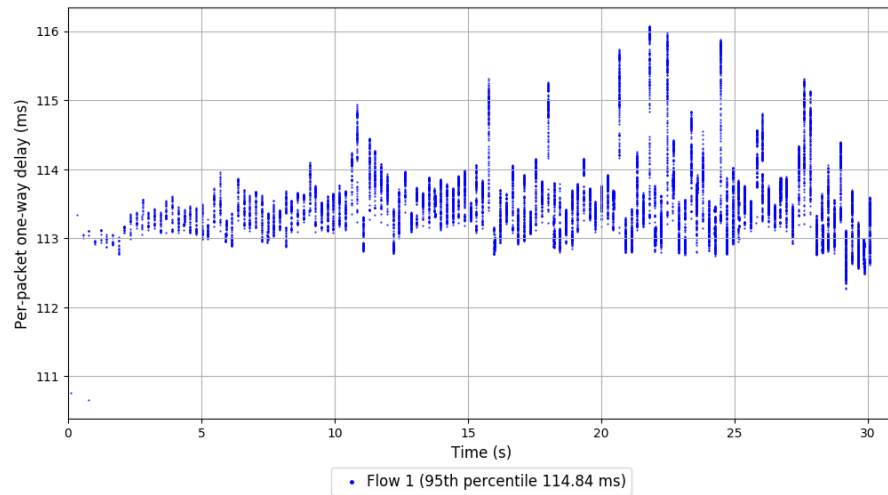
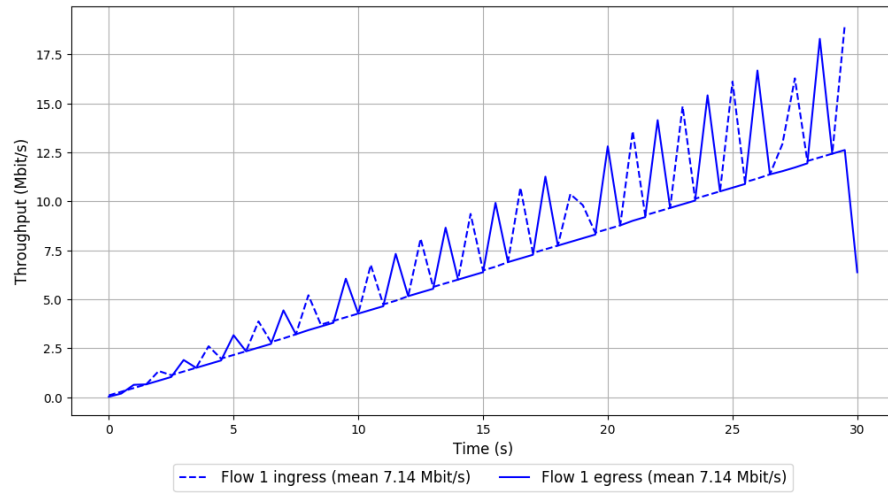
-- Flow 1:

Average throughput: 7.14 Mbit/s

95th percentile per-packet one-way delay: 114.836 ms

Loss rate: 0.00%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-03-13 00:33:11

End at: 2018-03-13 00:33:41

Below is generated by plot.py at 2018-03-13 02:28:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.11 Mbit/s

95th percentile per-packet one-way delay: 113.651 ms

Loss rate: 0.00%

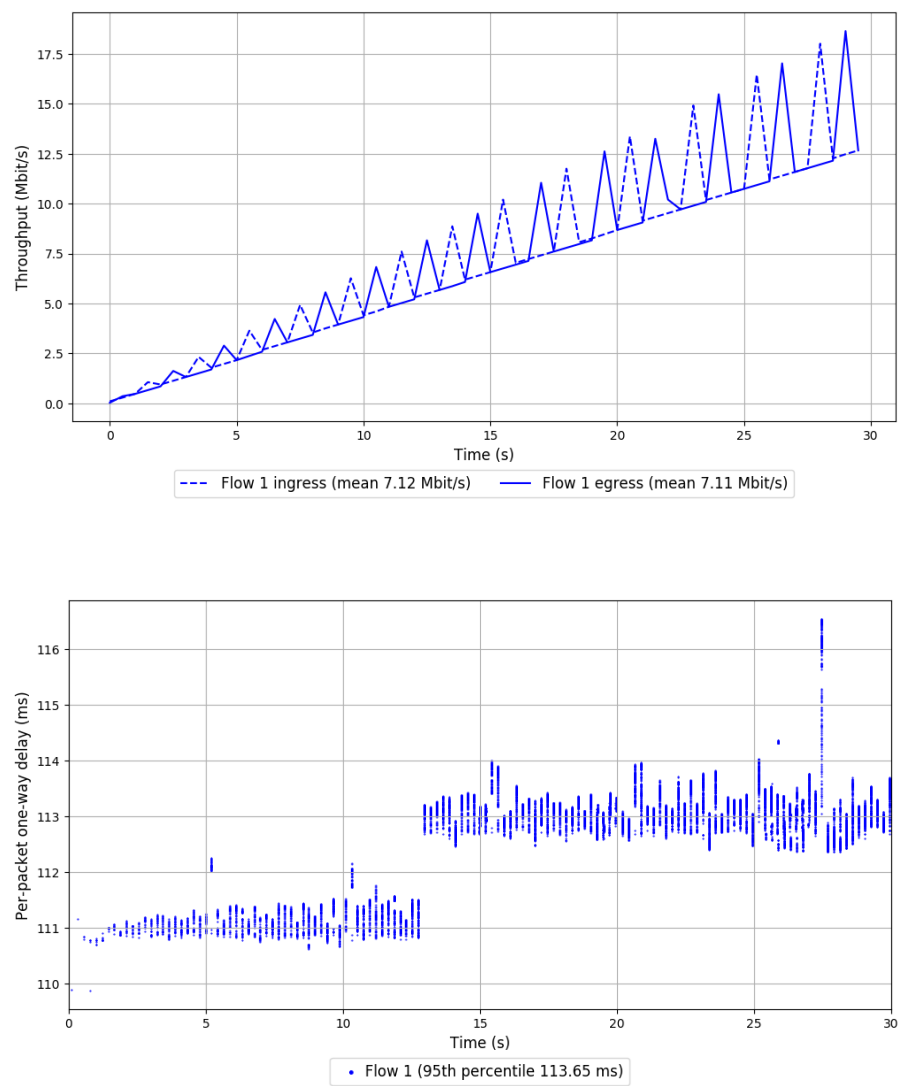
-- Flow 1:

Average throughput: 7.11 Mbit/s

95th percentile per-packet one-way delay: 113.651 ms

Loss rate: 0.00%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-03-13 00:48:23

End at: 2018-03-13 00:48:53

Below is generated by plot.py at 2018-03-13 02:28:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.16 Mbit/s

95th percentile per-packet one-way delay: 113.916 ms

Loss rate: 0.00%

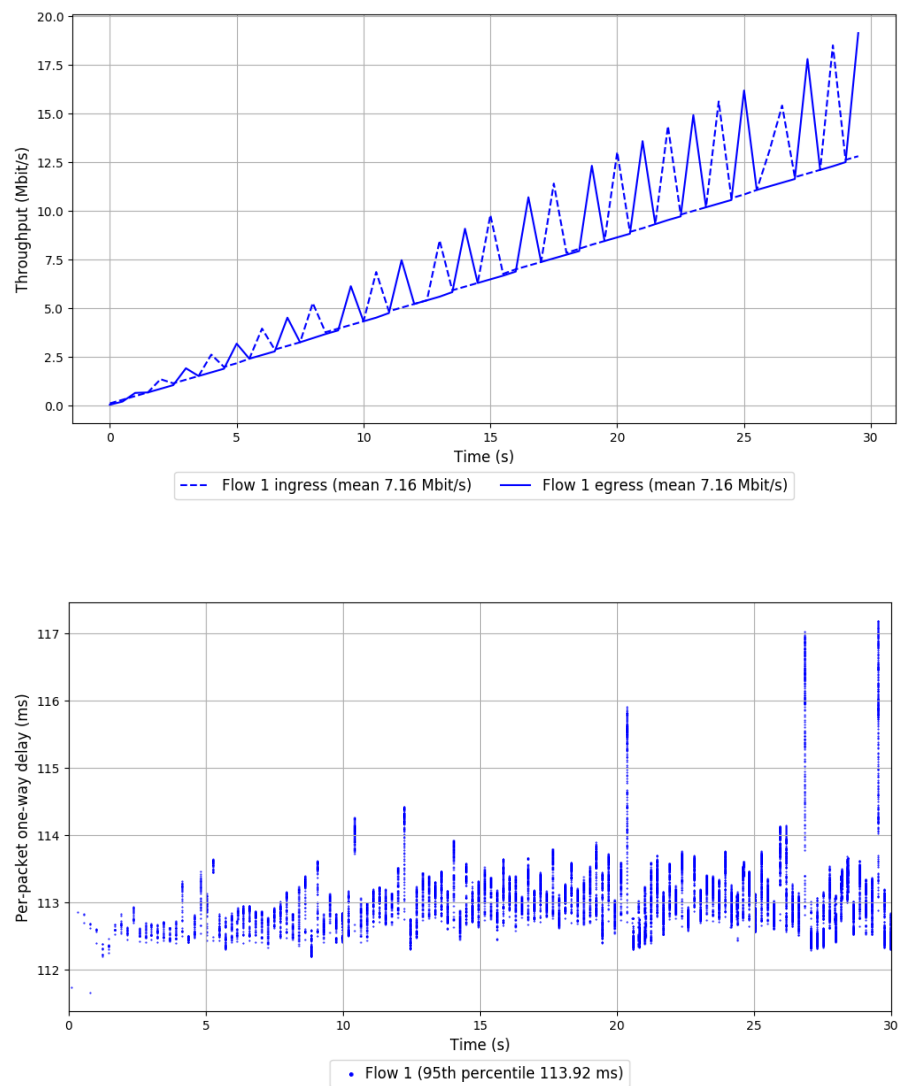
-- Flow 1:

Average throughput: 7.16 Mbit/s

95th percentile per-packet one-way delay: 113.916 ms

Loss rate: 0.00%

Run 10: Report of LEDBAT — Data Link

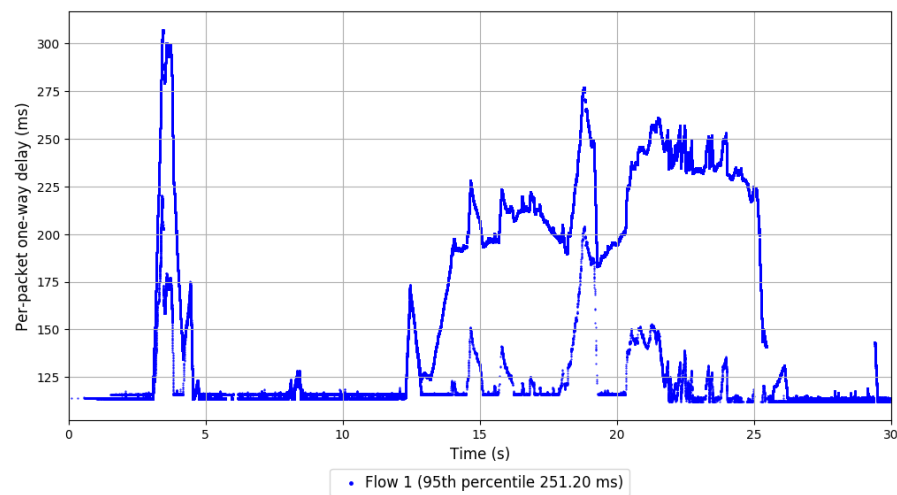
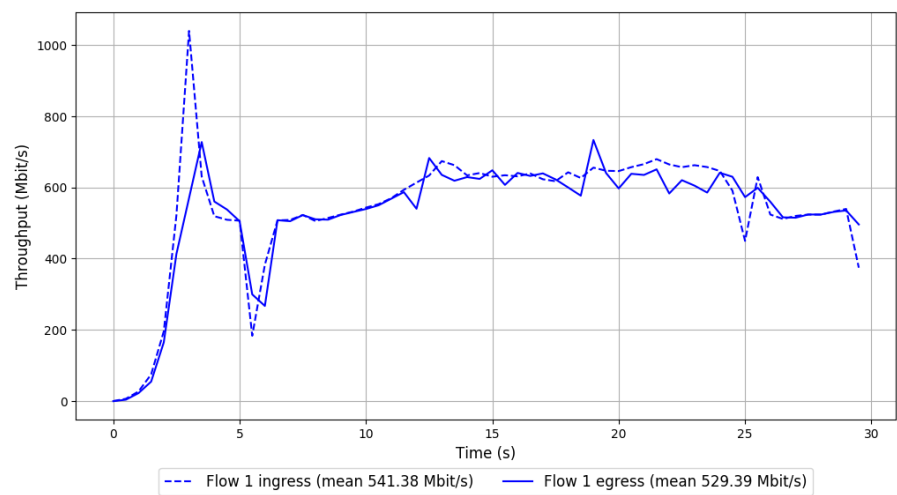


```
Run 1: Statistics of PCC

Start at: 2018-03-12 22:35:43
End at: 2018-03-12 22:36:13

# Below is generated by plot.py at 2018-03-13 02:35:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 529.39 Mbit/s
95th percentile per-packet one-way delay: 251.200 ms
Loss rate: 2.23%
-- Flow 1:
Average throughput: 529.39 Mbit/s
95th percentile per-packet one-way delay: 251.200 ms
Loss rate: 2.23%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2018-03-12 22:51:04

End at: 2018-03-12 22:51:34

Below is generated by plot.py at 2018-03-13 02:35:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 505.97 Mbit/s

95th percentile per-packet one-way delay: 204.148 ms

Loss rate: 1.51%

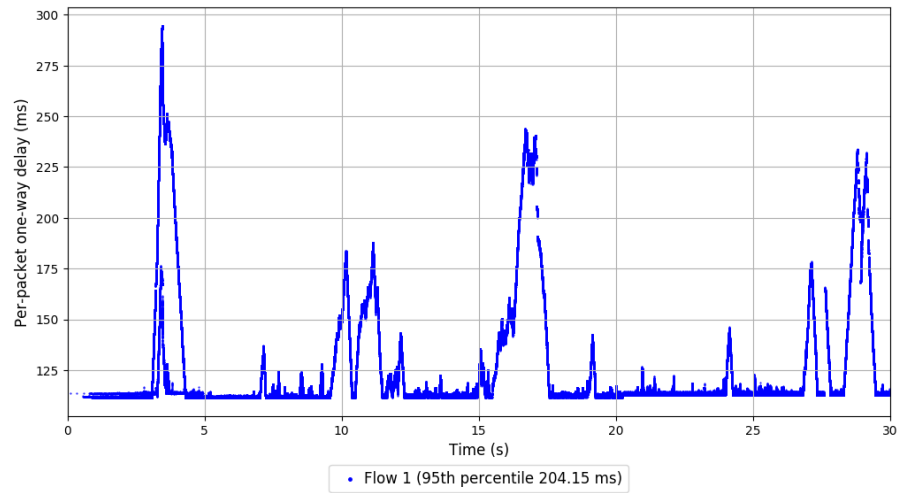
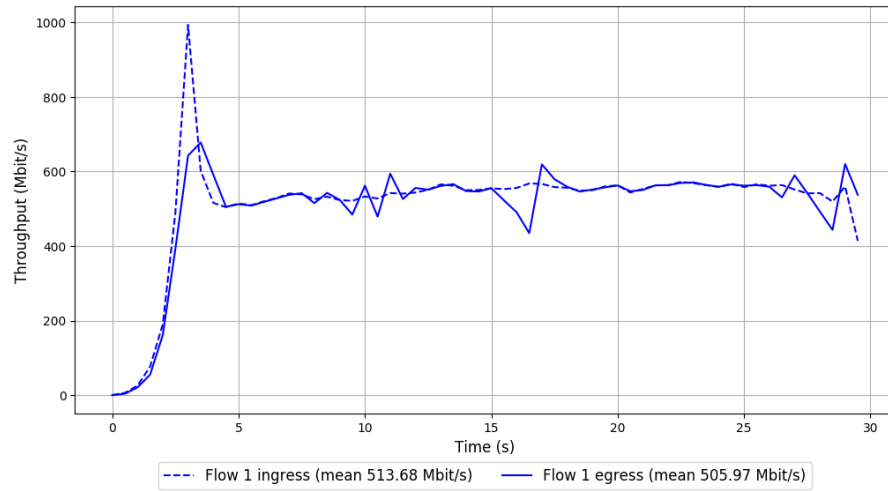
-- Flow 1:

Average throughput: 505.97 Mbit/s

95th percentile per-packet one-way delay: 204.148 ms

Loss rate: 1.51%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-03-12 23:06:13

End at: 2018-03-12 23:06:43

Below is generated by plot.py at 2018-03-13 02:35:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 482.58 Mbit/s

95th percentile per-packet one-way delay: 152.308 ms

Loss rate: 1.09%

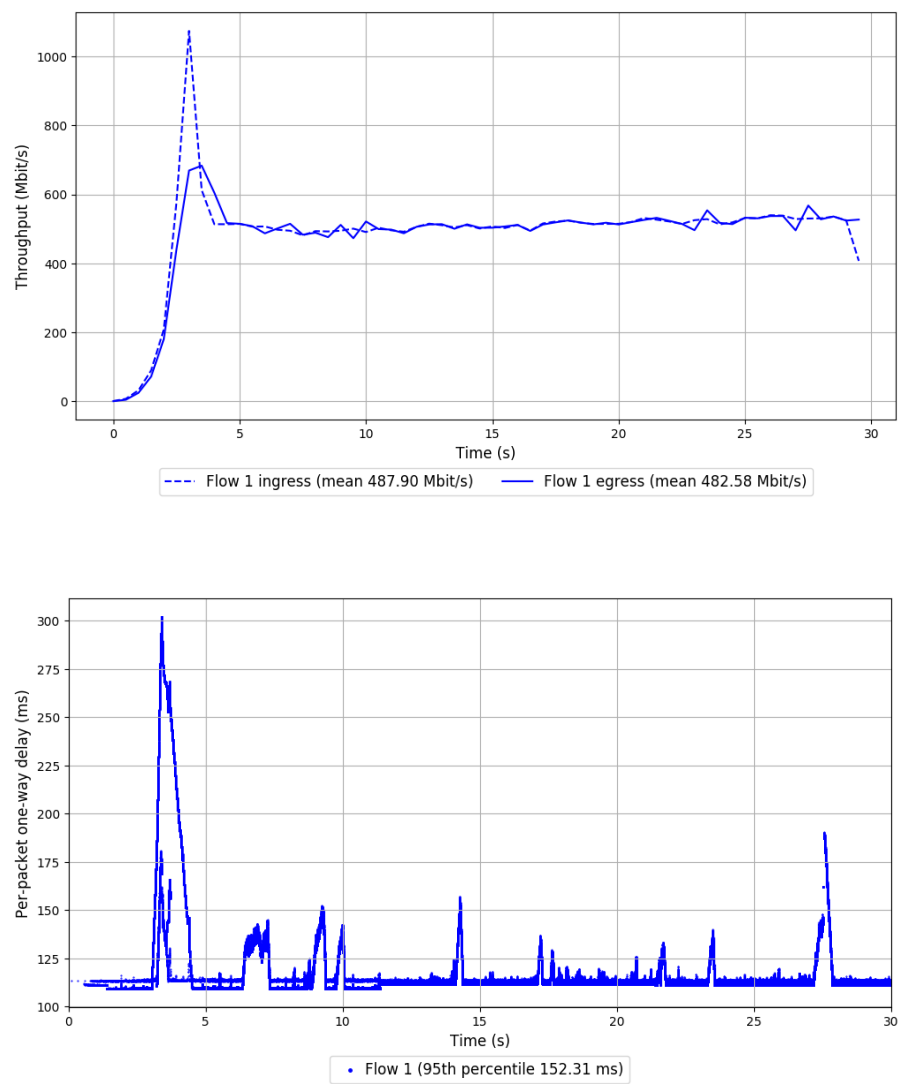
-- Flow 1:

Average throughput: 482.58 Mbit/s

95th percentile per-packet one-way delay: 152.308 ms

Loss rate: 1.09%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-03-12 23:21:25

End at: 2018-03-12 23:21:55

Below is generated by plot.py at 2018-03-13 02:35:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 508.32 Mbit/s

95th percentile per-packet one-way delay: 163.793 ms

Loss rate: 1.14%

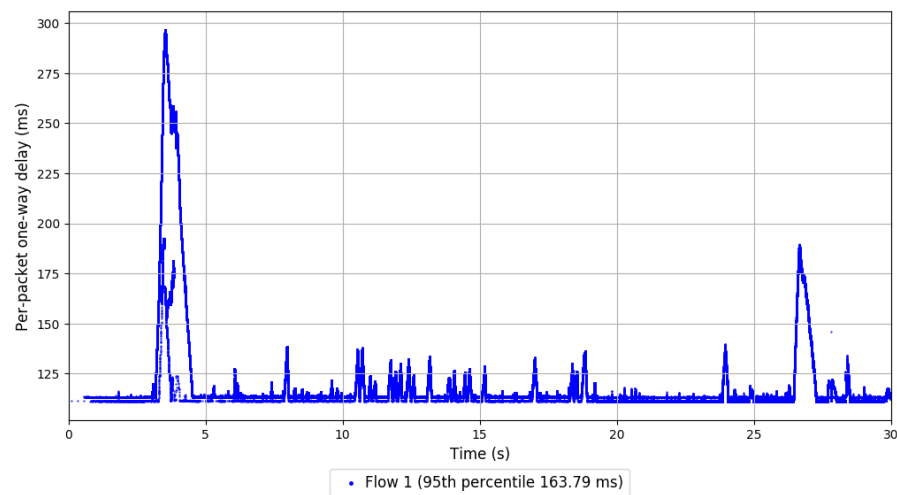
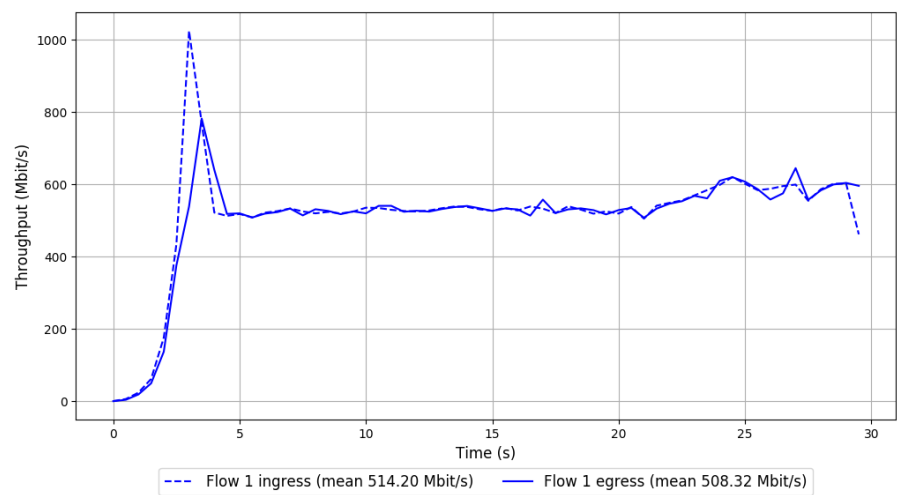
-- Flow 1:

Average throughput: 508.32 Mbit/s

95th percentile per-packet one-way delay: 163.793 ms

Loss rate: 1.14%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-03-12 23:36:38

End at: 2018-03-12 23:37:09

Below is generated by plot.py at 2018-03-13 02:36:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 498.41 Mbit/s

95th percentile per-packet one-way delay: 157.864 ms

Loss rate: 0.90%

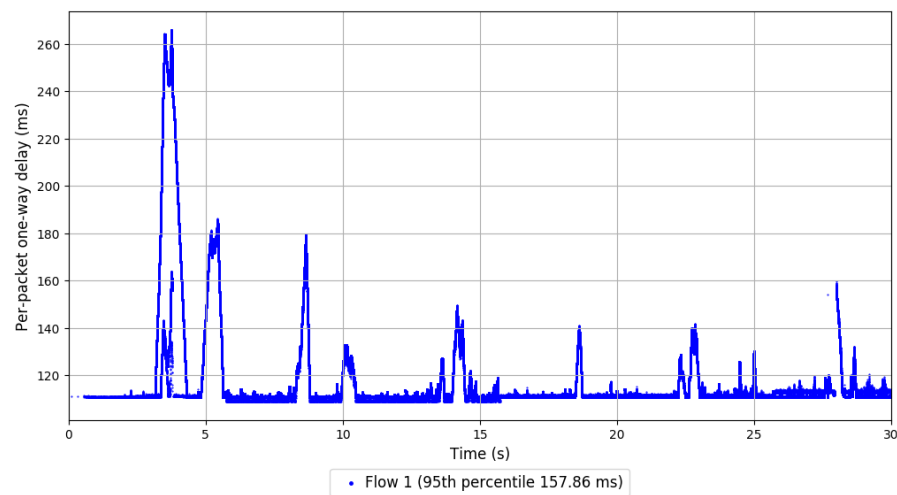
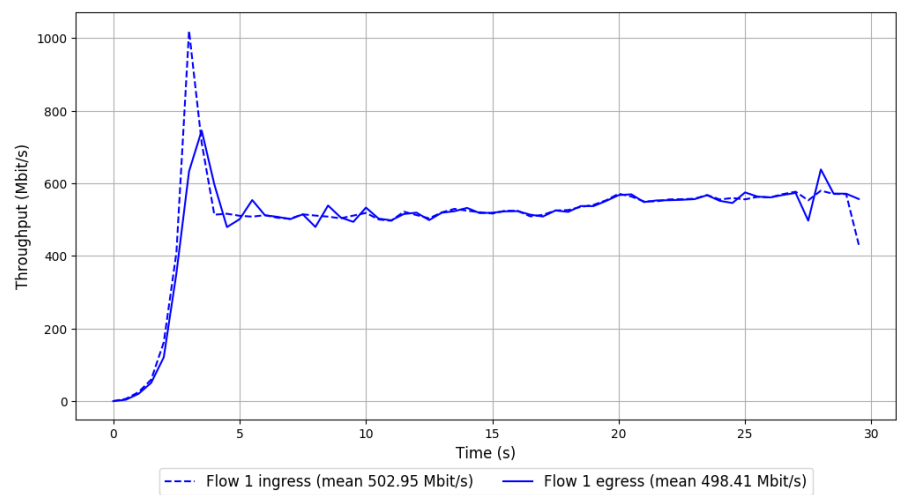
-- Flow 1:

Average throughput: 498.41 Mbit/s

95th percentile per-packet one-way delay: 157.864 ms

Loss rate: 0.90%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-03-12 23:51:43

End at: 2018-03-12 23:52:13

Below is generated by plot.py at 2018-03-13 02:36:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 480.49 Mbit/s

95th percentile per-packet one-way delay: 218.924 ms

Loss rate: 2.03%

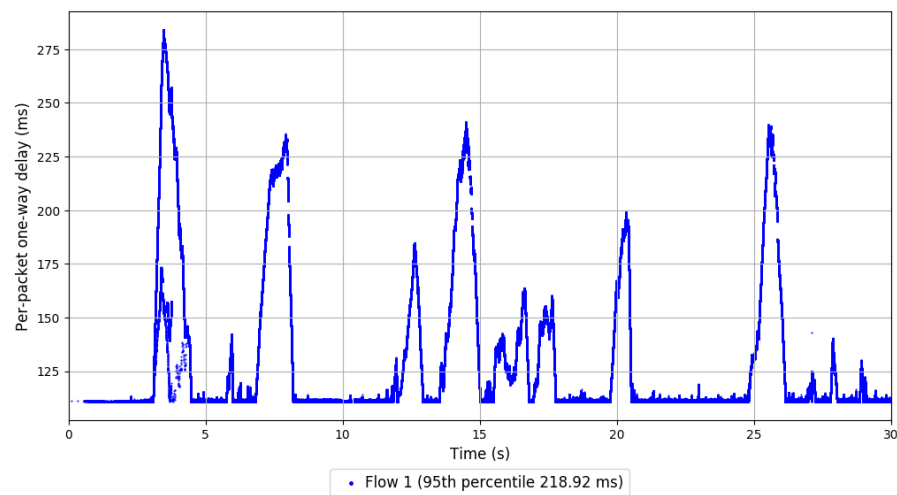
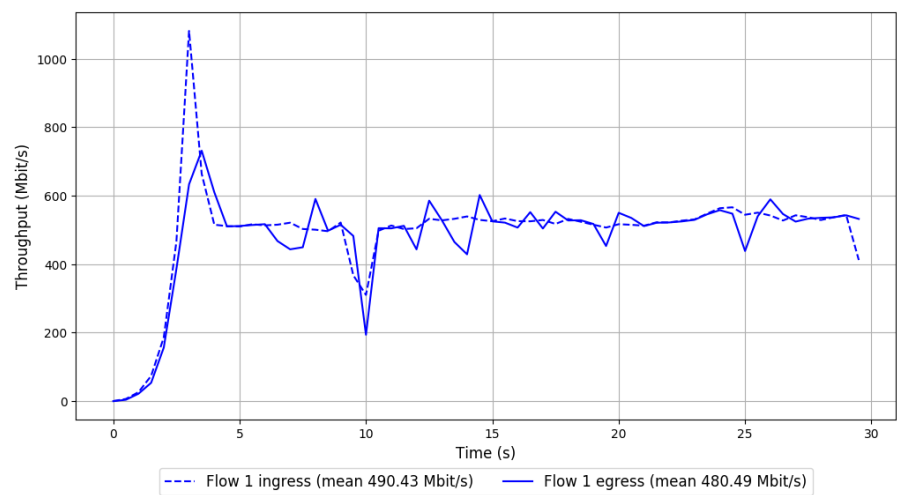
-- Flow 1:

Average throughput: 480.49 Mbit/s

95th percentile per-packet one-way delay: 218.924 ms

Loss rate: 2.03%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

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

End at: 2018-03-13 00:07:37

Below is generated by plot.py at 2018-03-13 02:36:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 492.19 Mbit/s

95th percentile per-packet one-way delay: 218.578 ms

Loss rate: 2.03%

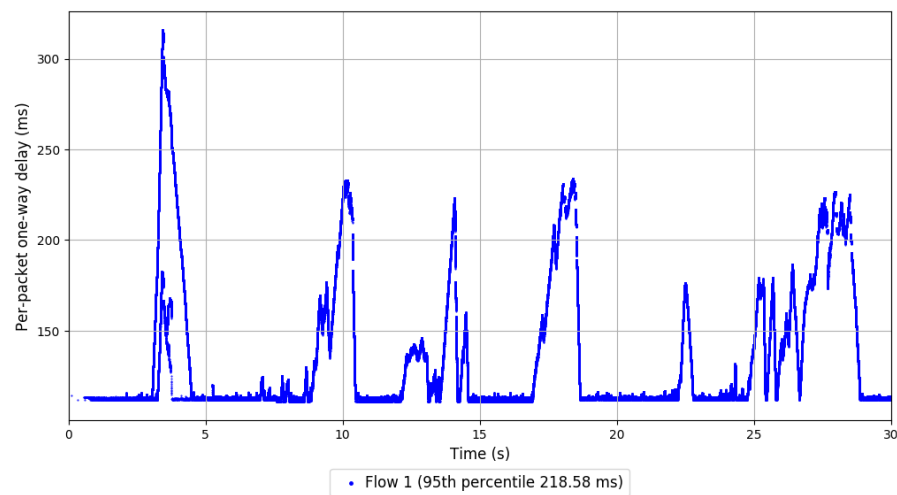
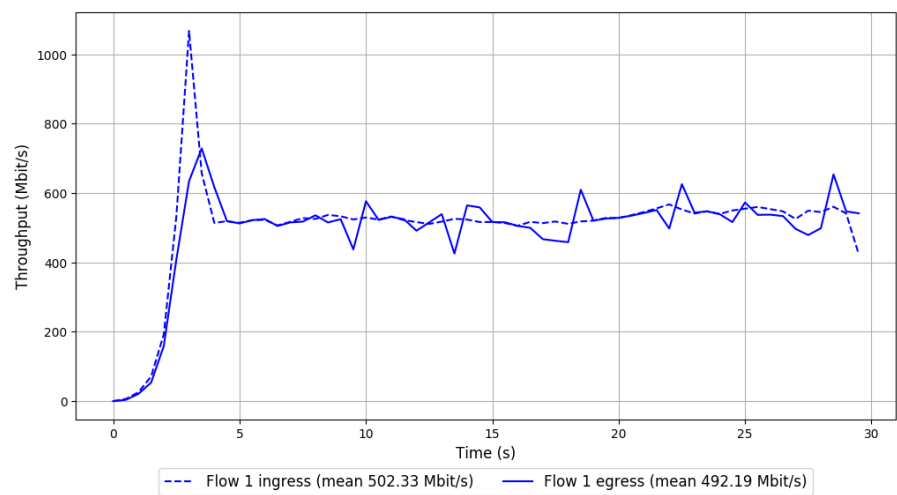
-- Flow 1:

Average throughput: 492.19 Mbit/s

95th percentile per-packet one-way delay: 218.578 ms

Loss rate: 2.03%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-03-13 00:22:24

End at: 2018-03-13 00:22:54

Below is generated by plot.py at 2018-03-13 02:36:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 500.02 Mbit/s

95th percentile per-packet one-way delay: 158.545 ms

Loss rate: 0.70%

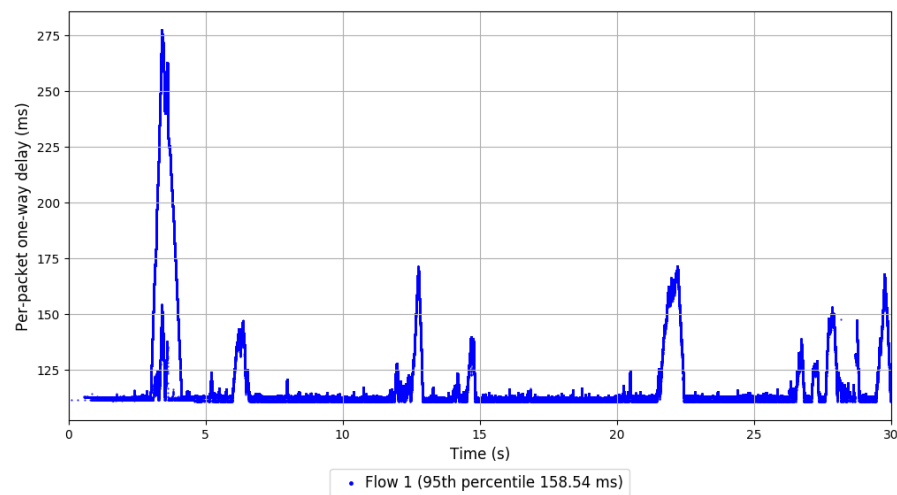
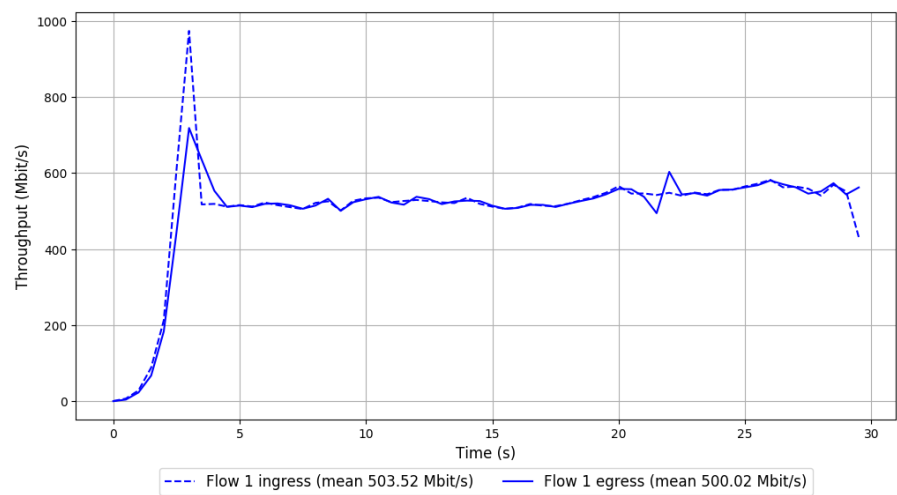
-- Flow 1:

Average throughput: 500.02 Mbit/s

95th percentile per-packet one-way delay: 158.545 ms

Loss rate: 0.70%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2018-03-13 00:37:35

End at: 2018-03-13 00:38:05

Below is generated by plot.py at 2018-03-13 02:44:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 522.82 Mbit/s

95th percentile per-packet one-way delay: 256.744 ms

Loss rate: 3.27%

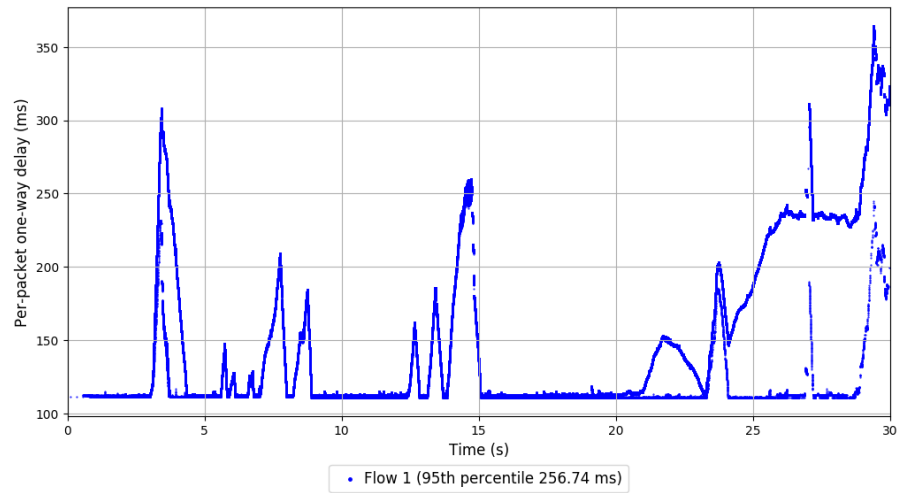
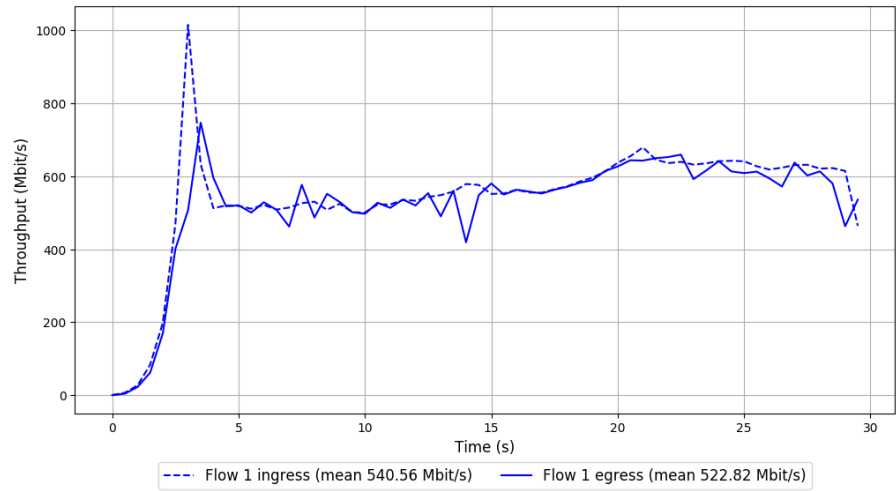
-- Flow 1:

Average throughput: 522.82 Mbit/s

95th percentile per-packet one-way delay: 256.744 ms

Loss rate: 3.27%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2018-03-13 00:52:46

End at: 2018-03-13 00:53:16

Below is generated by plot.py at 2018-03-13 02:44:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 540.97 Mbit/s

95th percentile per-packet one-way delay: 138.343 ms

Loss rate: 1.05%

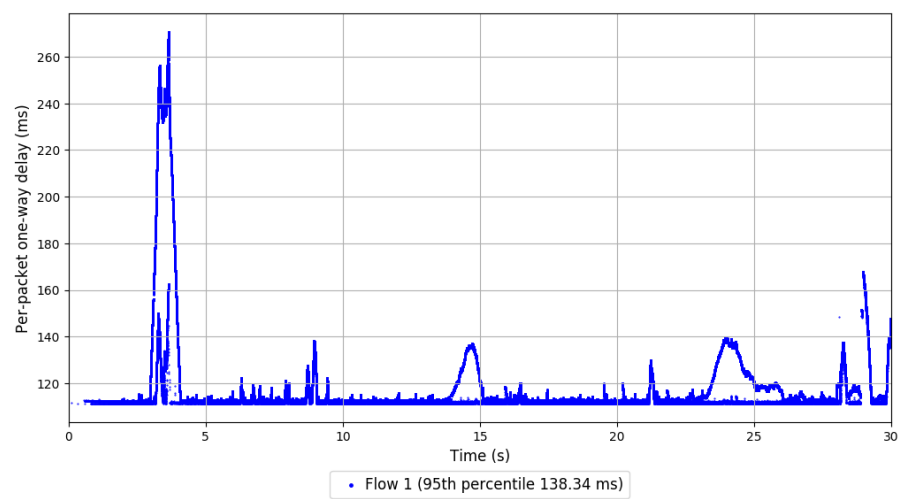
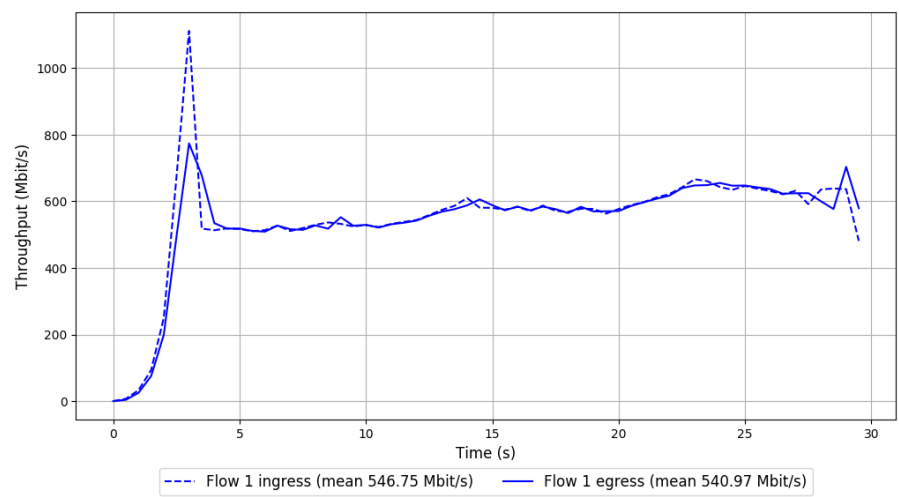
-- Flow 1:

Average throughput: 540.97 Mbit/s

95th percentile per-packet one-way delay: 138.343 ms

Loss rate: 1.05%

Run 10: Report of PCC — Data Link

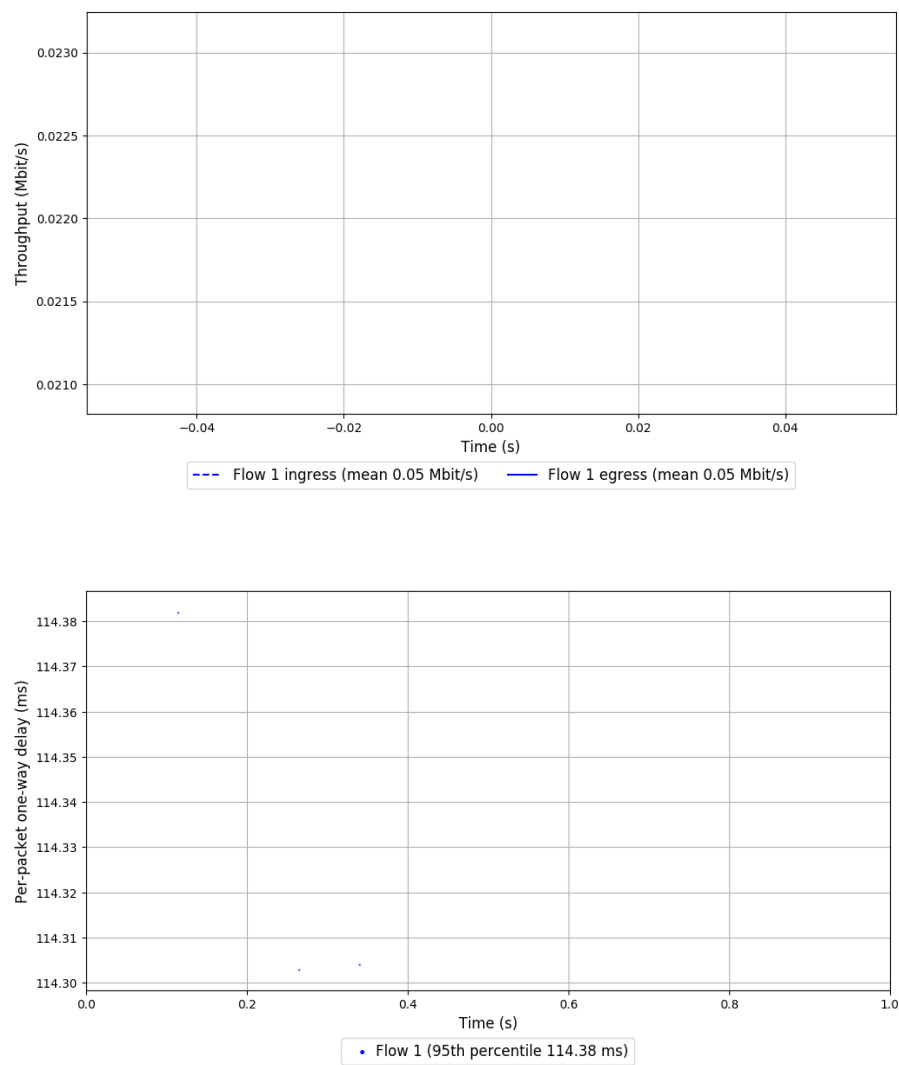


Run 1: Statistics of QUIC Cubic

Start at: 2018-03-12 22:32:08

End at: 2018-03-12 22:32:39

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-03-12 22:47:29

End at: 2018-03-12 22:47:59

Below is generated by plot.py at 2018-03-13 02:44:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 52.24 Mbit/s

95th percentile per-packet one-way delay: 115.508 ms

Loss rate: 0.00%

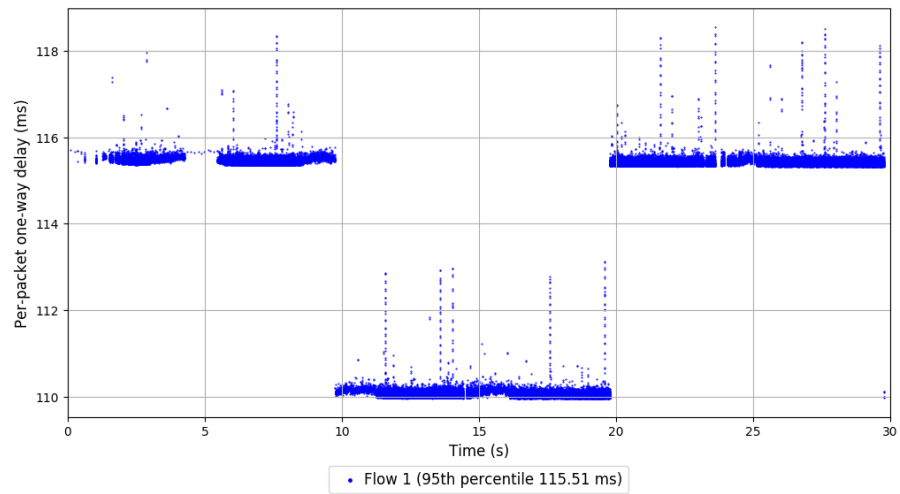
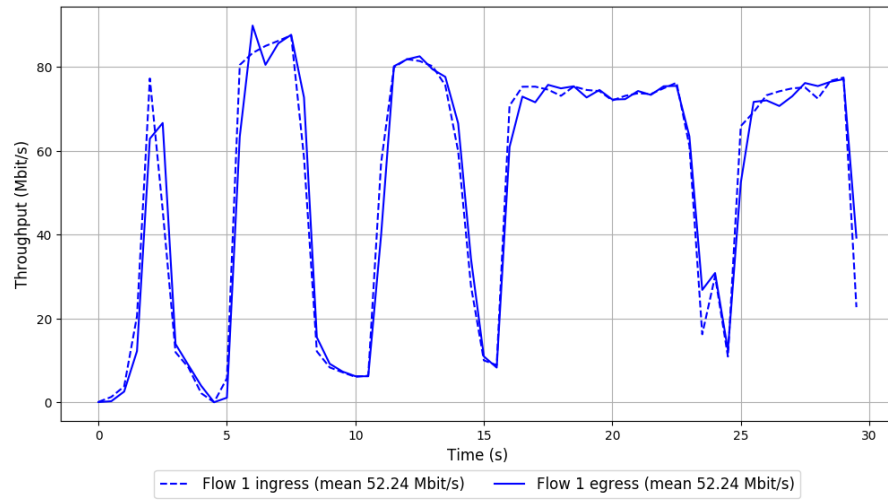
-- Flow 1:

Average throughput: 52.24 Mbit/s

95th percentile per-packet one-way delay: 115.508 ms

Loss rate: 0.00%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-03-12 23:02:38

End at: 2018-03-12 23:03:08

Below is generated by plot.py at 2018-03-13 02:44:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 52.04 Mbit/s

95th percentile per-packet one-way delay: 113.205 ms

Loss rate: 0.00%

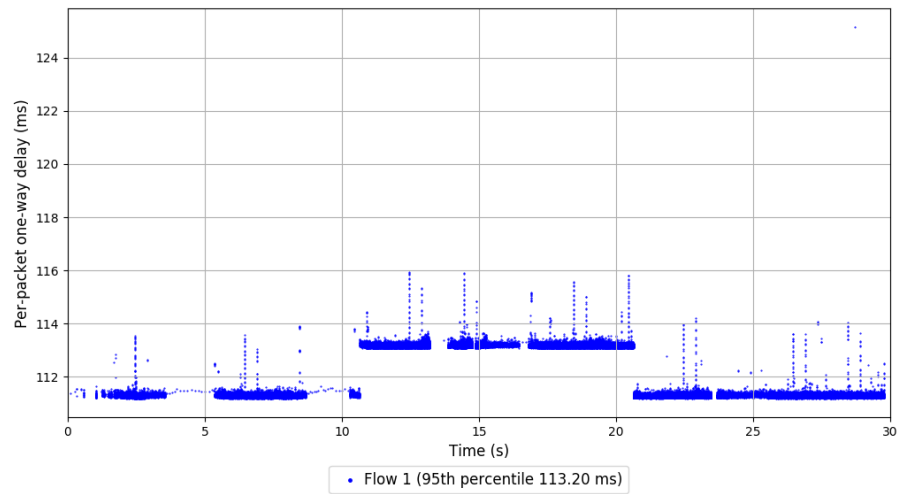
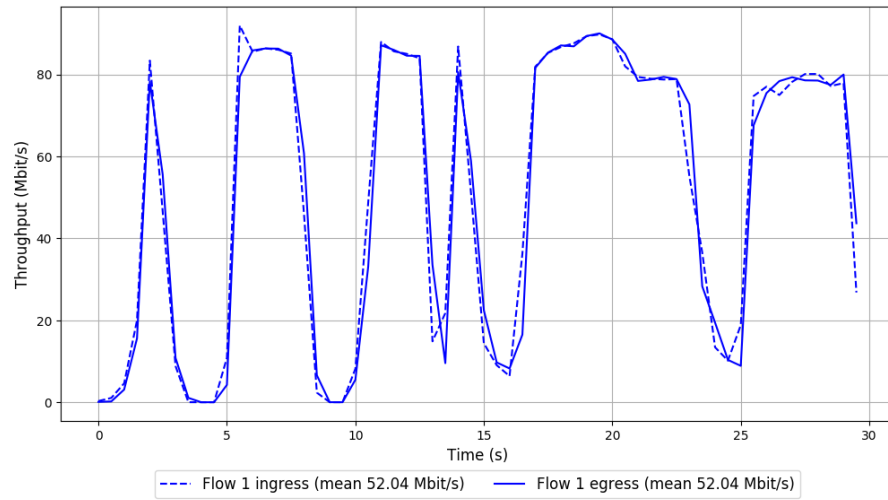
-- Flow 1:

Average throughput: 52.04 Mbit/s

95th percentile per-packet one-way delay: 113.205 ms

Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-03-12 23:17:49

End at: 2018-03-12 23:18:19

Below is generated by plot.py at 2018-03-13 02:44:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 41.95 Mbit/s

95th percentile per-packet one-way delay: 113.155 ms

Loss rate: 0.00%

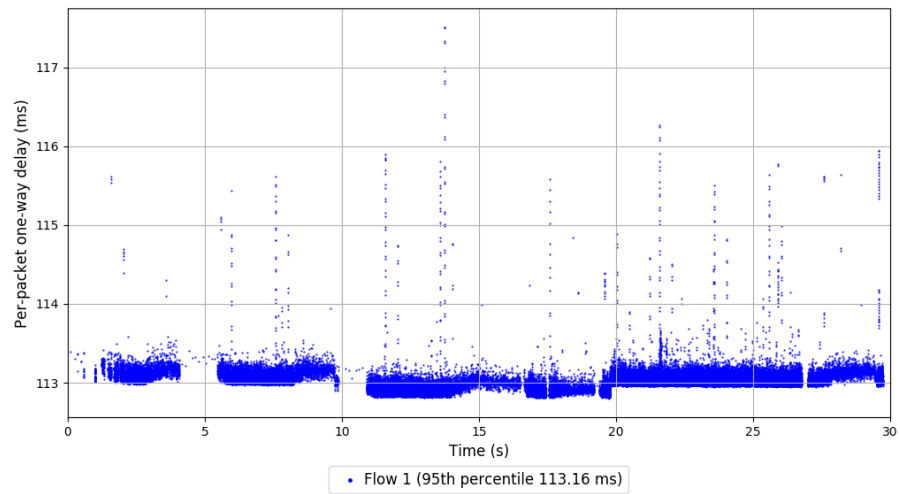
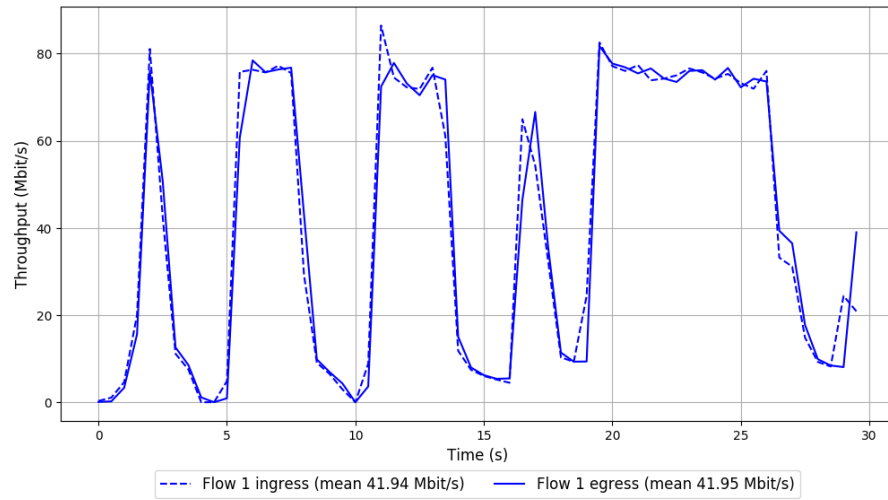
-- Flow 1:

Average throughput: 41.95 Mbit/s

95th percentile per-packet one-way delay: 113.155 ms

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-03-12 23:32:59

End at: 2018-03-12 23:33:29

Below is generated by plot.py at 2018-03-13 02:44:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 43.78 Mbit/s

95th percentile per-packet one-way delay: 112.963 ms

Loss rate: 0.00%

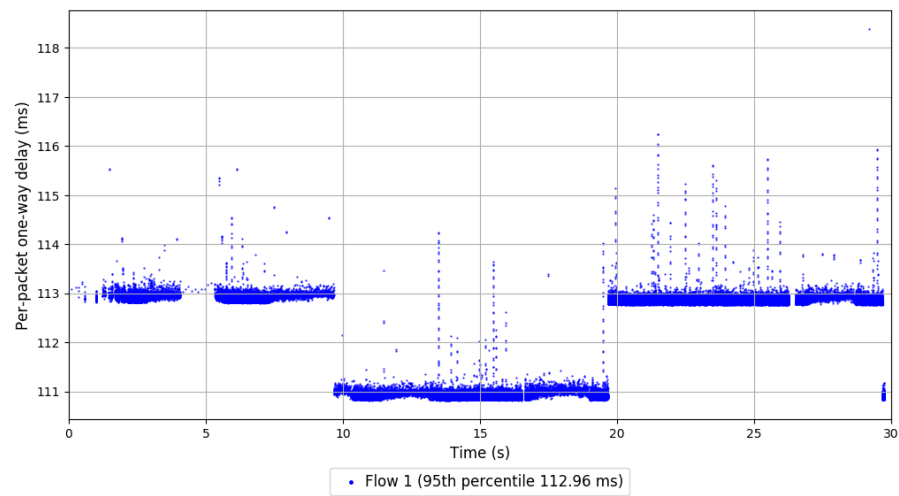
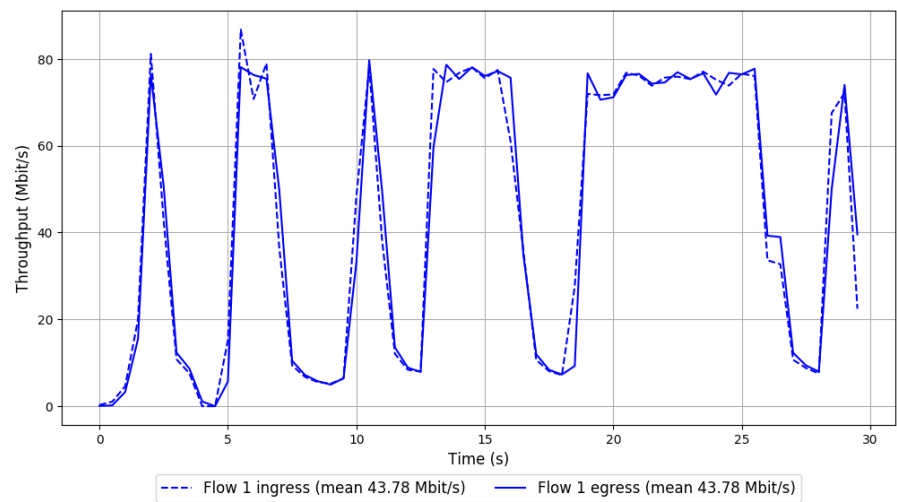
-- Flow 1:

Average throughput: 43.78 Mbit/s

95th percentile per-packet one-way delay: 112.963 ms

Loss rate: 0.00%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-03-12 23:48:04

End at: 2018-03-12 23:48:34

Below is generated by plot.py at 2018-03-13 02:44:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.07 Mbit/s

95th percentile per-packet one-way delay: 113.032 ms

Loss rate: 0.00%

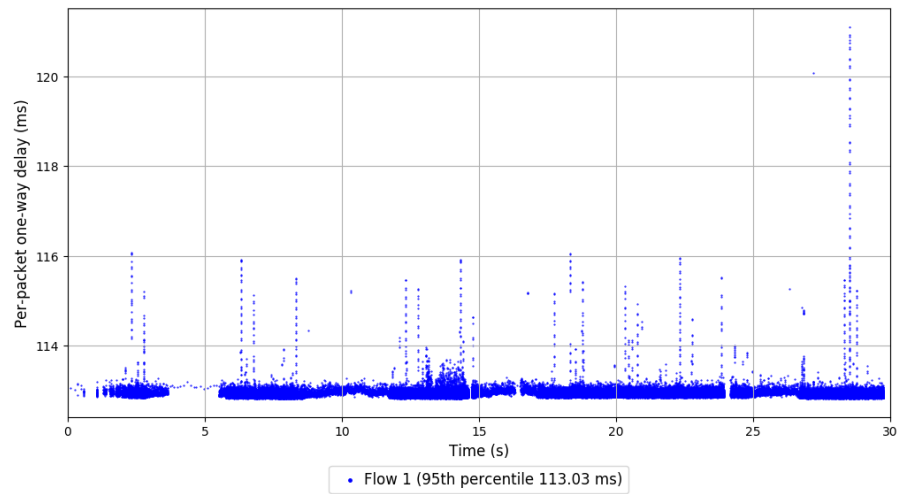
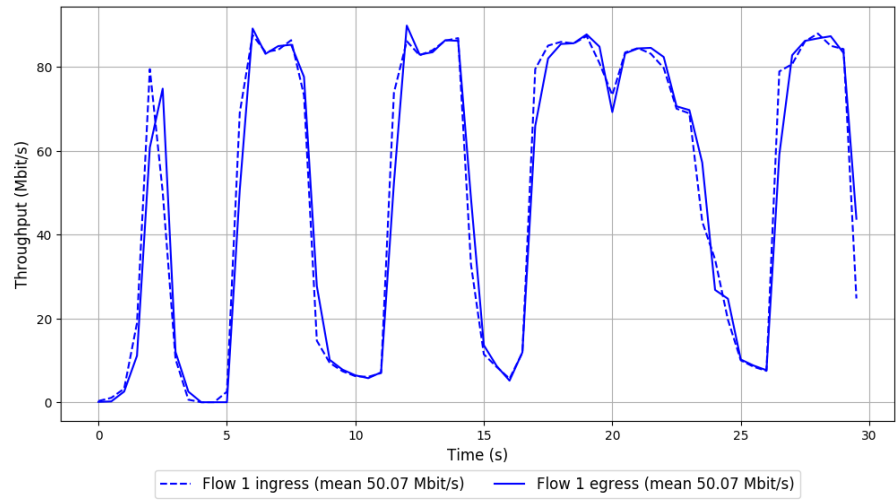
-- Flow 1:

Average throughput: 50.07 Mbit/s

95th percentile per-packet one-way delay: 113.032 ms

Loss rate: 0.00%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-03-13 00:03:29

End at: 2018-03-13 00:03:59

Below is generated by plot.py at 2018-03-13 02:44:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 52.18 Mbit/s

95th percentile per-packet one-way delay: 112.403 ms

Loss rate: 0.01%

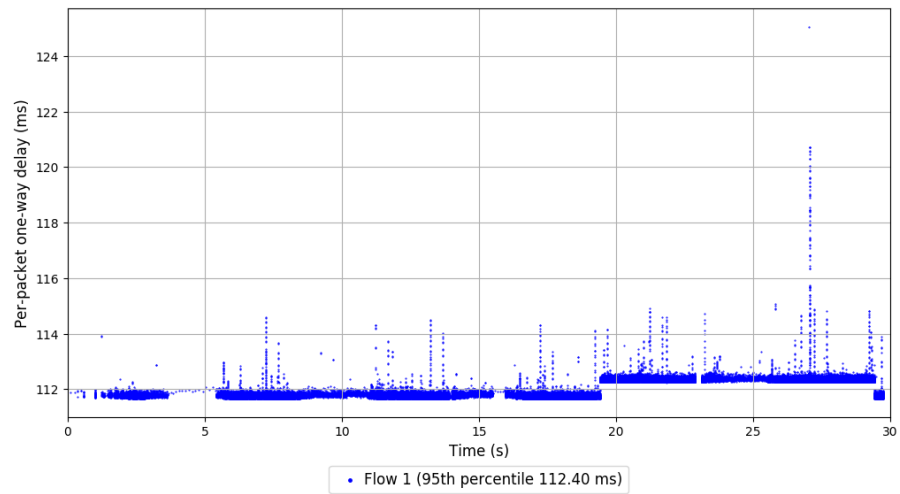
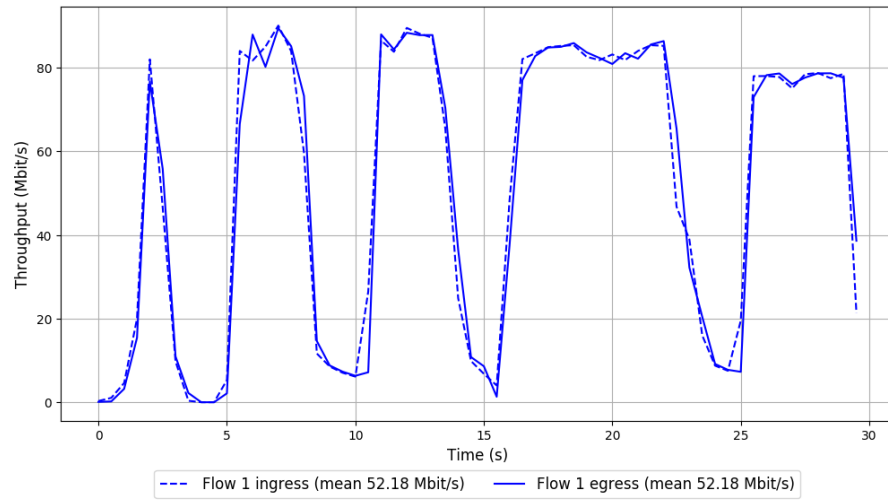
-- Flow 1:

Average throughput: 52.18 Mbit/s

95th percentile per-packet one-way delay: 112.403 ms

Loss rate: 0.01%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-03-13 00:18:47

End at: 2018-03-13 00:19:17

Below is generated by plot.py at 2018-03-13 02:44:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 53.48 Mbit/s

95th percentile per-packet one-way delay: 110.543 ms

Loss rate: 0.00%

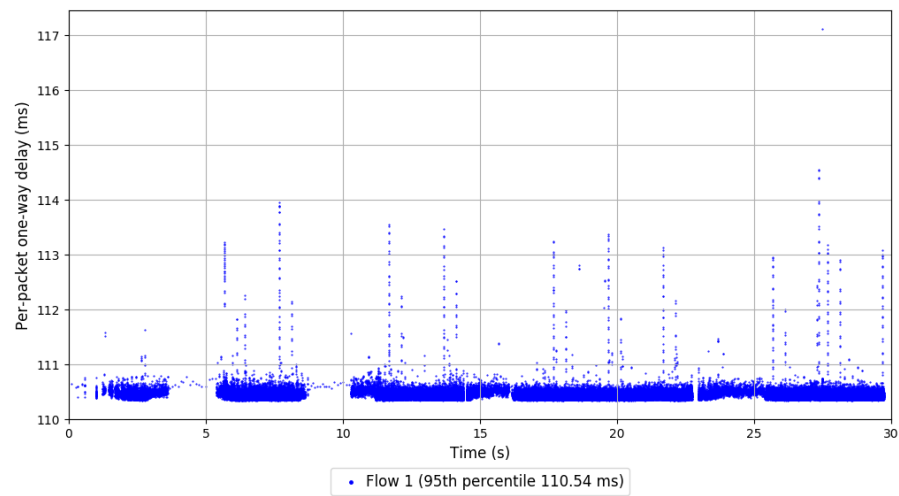
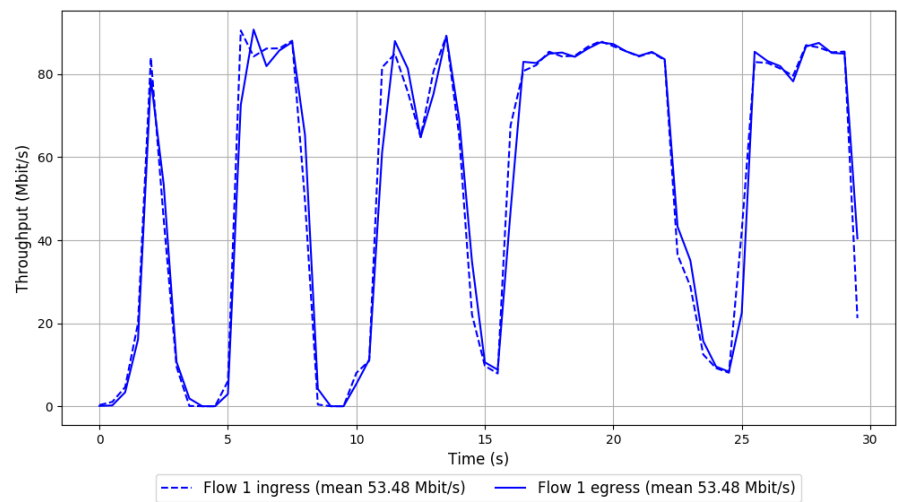
-- Flow 1:

Average throughput: 53.48 Mbit/s

95th percentile per-packet one-way delay: 110.543 ms

Loss rate: 0.00%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-03-13 00:33:53

End at: 2018-03-13 00:34:23

Below is generated by plot.py at 2018-03-13 02:44:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 49.29 Mbit/s

95th percentile per-packet one-way delay: 112.182 ms

Loss rate: 0.00%

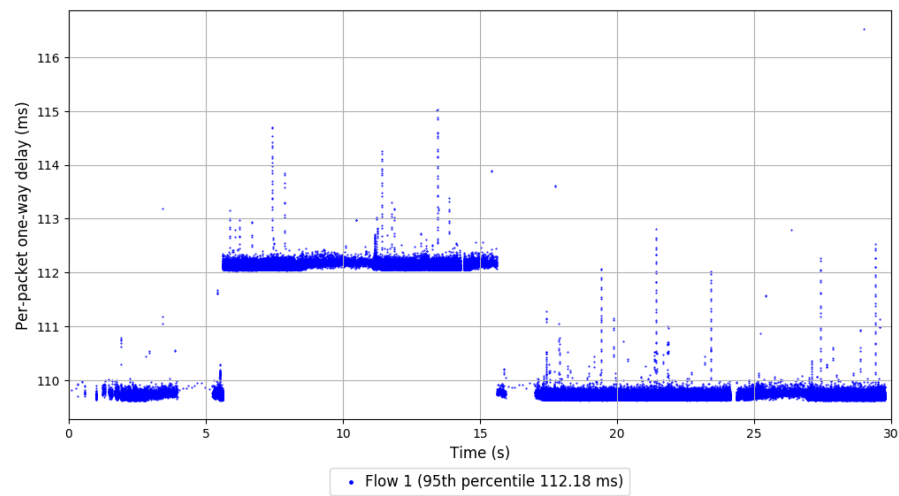
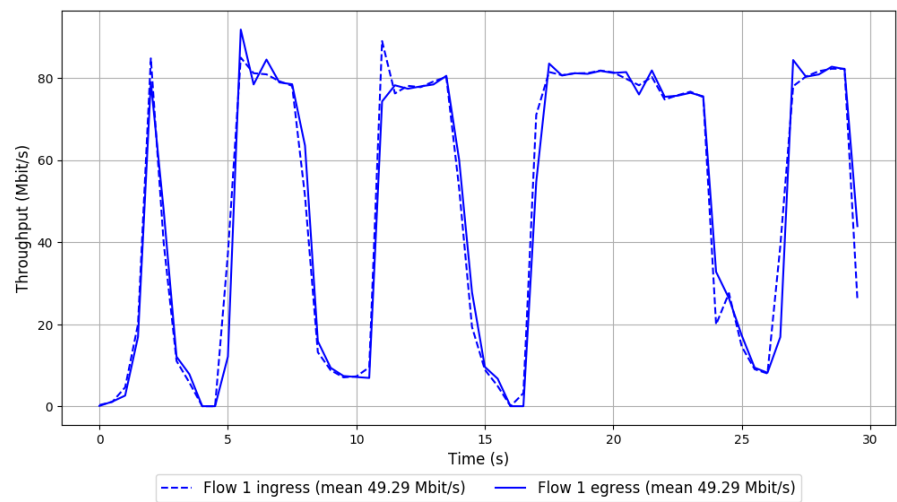
-- Flow 1:

Average throughput: 49.29 Mbit/s

95th percentile per-packet one-way delay: 112.182 ms

Loss rate: 0.00%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-03-13 00:49:05

End at: 2018-03-13 00:49:35

Below is generated by plot.py at 2018-03-13 02:44:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.09 Mbit/s

95th percentile per-packet one-way delay: 111.411 ms

Loss rate: 0.00%

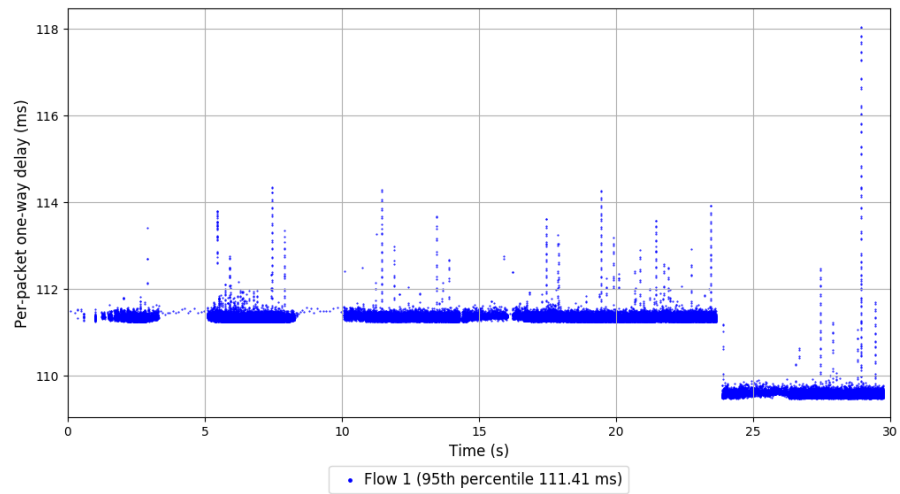
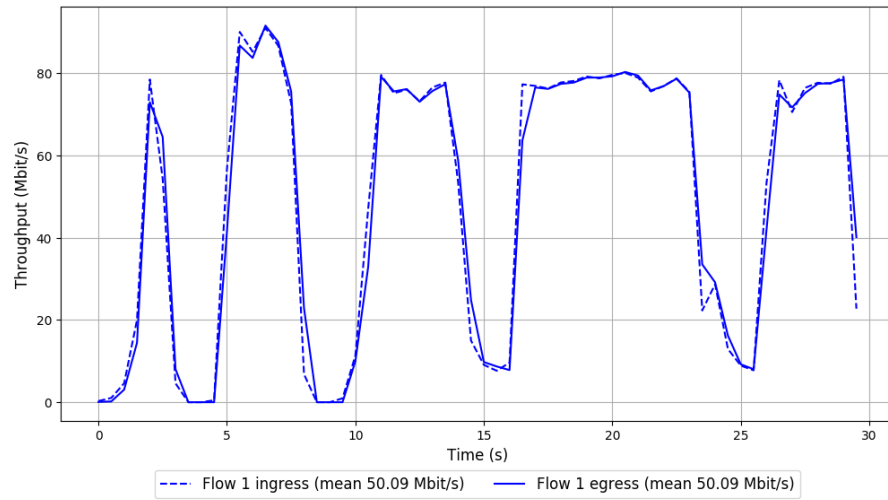
-- Flow 1:

Average throughput: 50.09 Mbit/s

95th percentile per-packet one-way delay: 111.411 ms

Loss rate: 0.00%

Run 10: Report of QUIC Cubic — Data Link

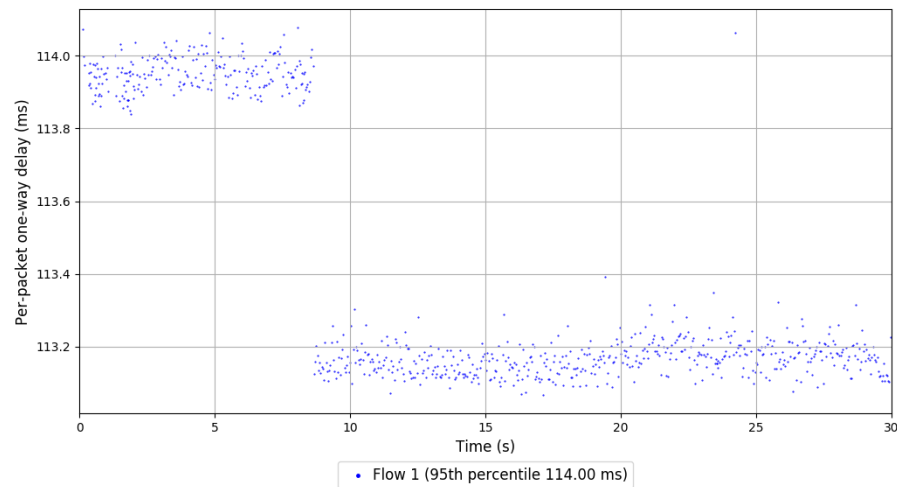
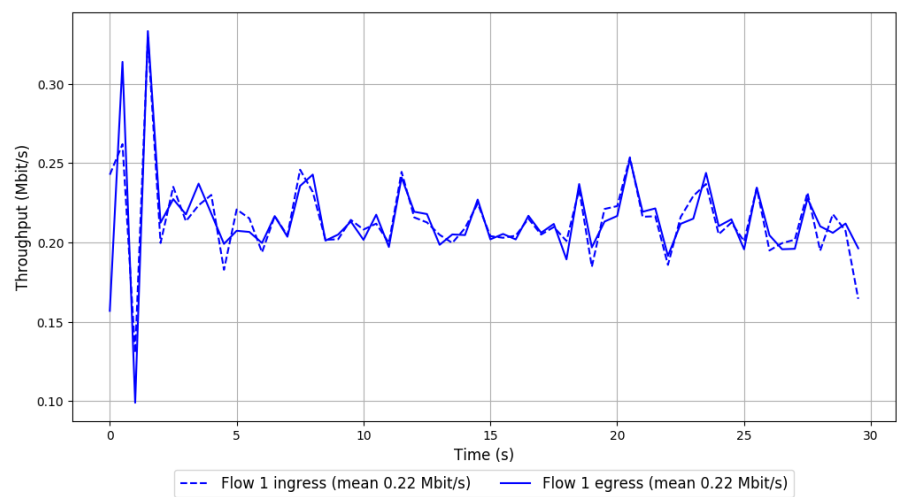


```
Run 1: Statistics of SCReAM

Start at: 2018-03-12 22:40:46
End at: 2018-03-12 22:41:16

# Below is generated by plot.py at 2018-03-13 02:44:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 113.999 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 113.999 ms
Loss rate: 0.13%
```

Run 1: Report of SReAM — Data Link

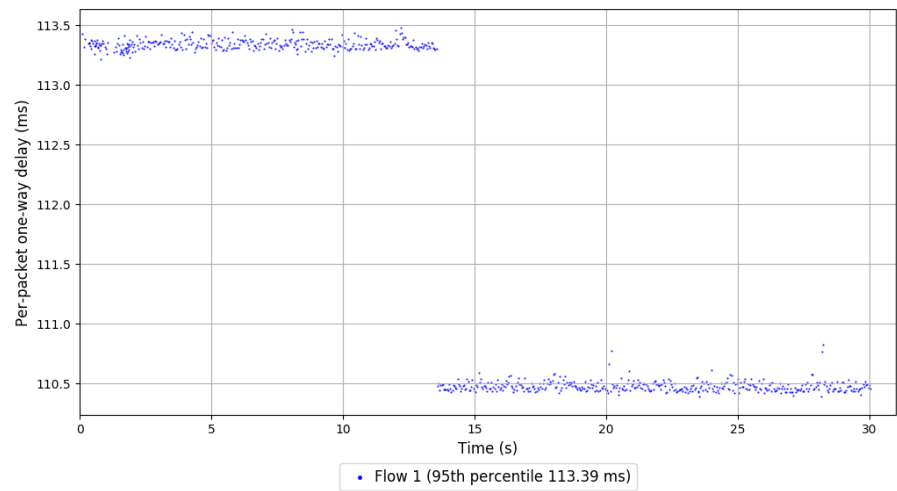
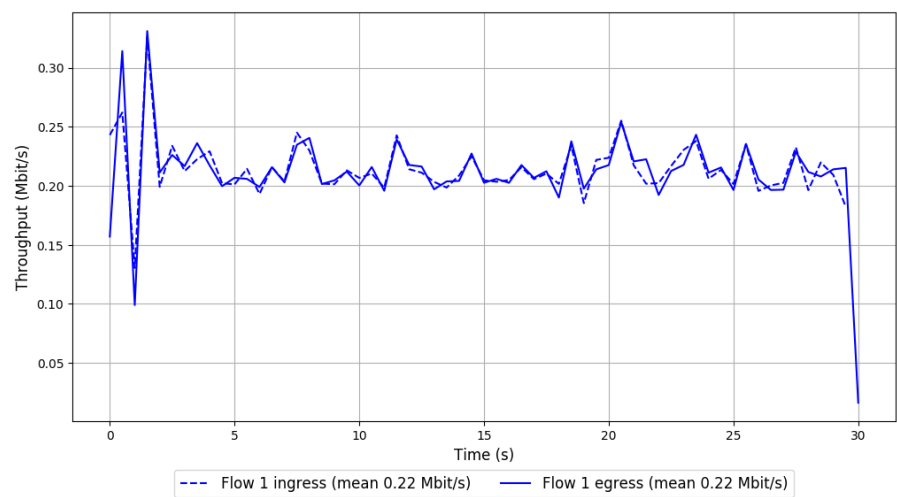


```
Run 2: Statistics of SCReAM

Start at: 2018-03-12 22:56:11
End at: 2018-03-12 22:56:41

# Below is generated by plot.py at 2018-03-13 02:44:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 113.386 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 113.386 ms
Loss rate: 0.00%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-03-12 23:11:12

End at: 2018-03-12 23:11:42

Below is generated by plot.py at 2018-03-13 02:44:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 113.016 ms

Loss rate: 0.00%

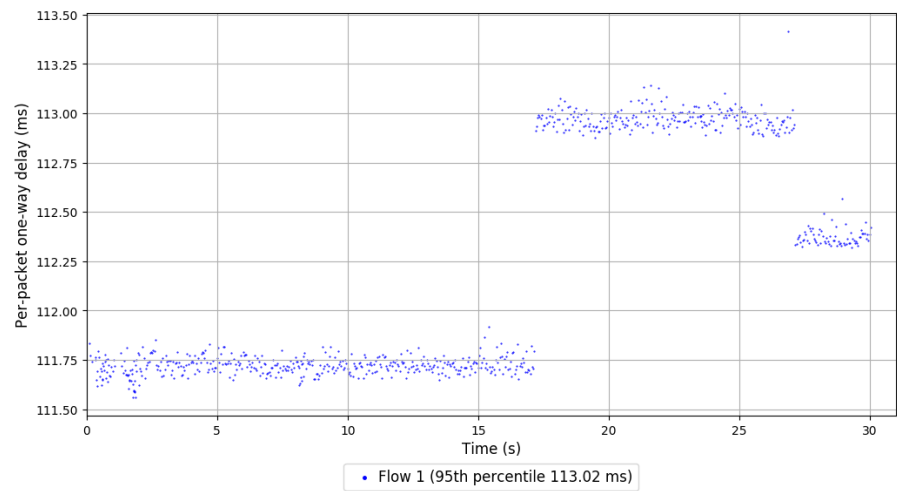
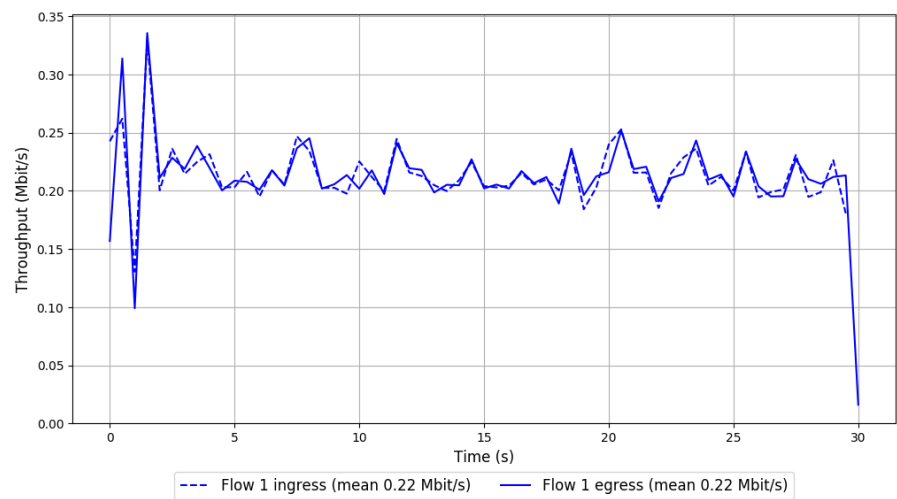
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 113.016 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link

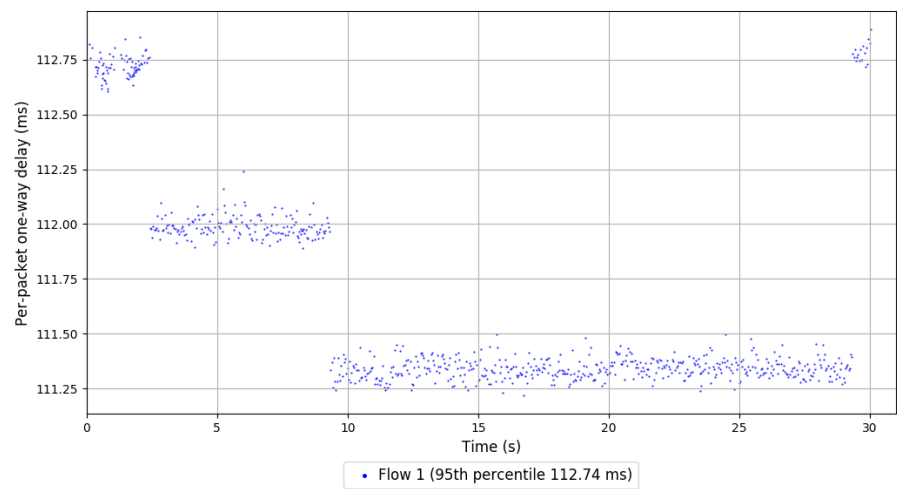
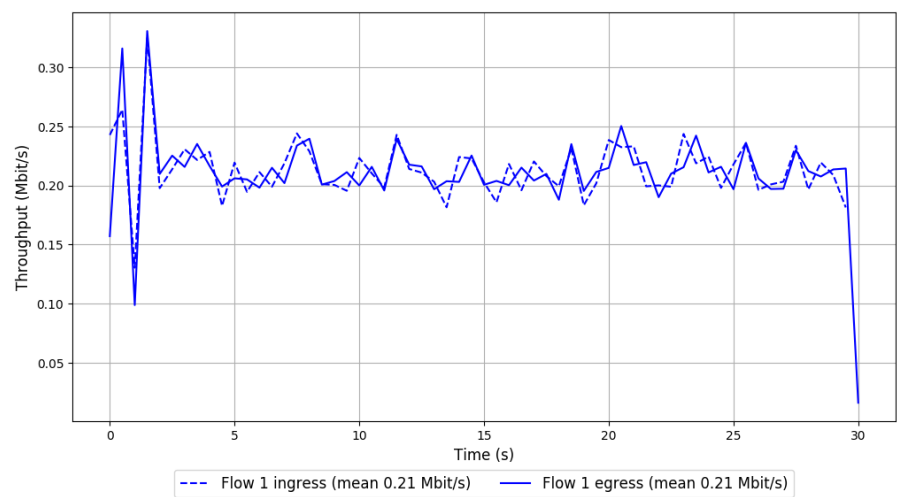


```
Run 4: Statistics of SCReAM

Start at: 2018-03-12 23:26:25
End at: 2018-03-12 23:26:55

# Below is generated by plot.py at 2018-03-13 02:44:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 112.739 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 112.739 ms
Loss rate: 0.00%
```

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-03-12 23:41:35

End at: 2018-03-12 23:42:05

Below is generated by plot.py at 2018-03-13 02:44:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 113.206 ms

Loss rate: 0.00%

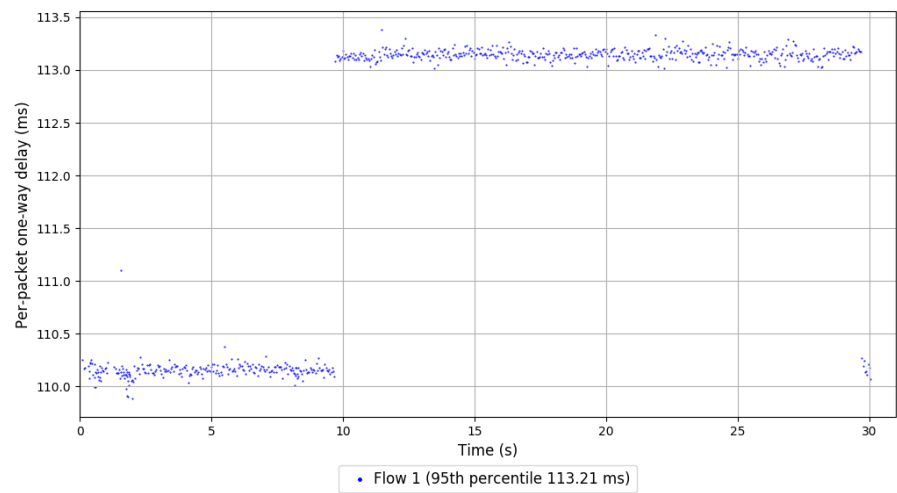
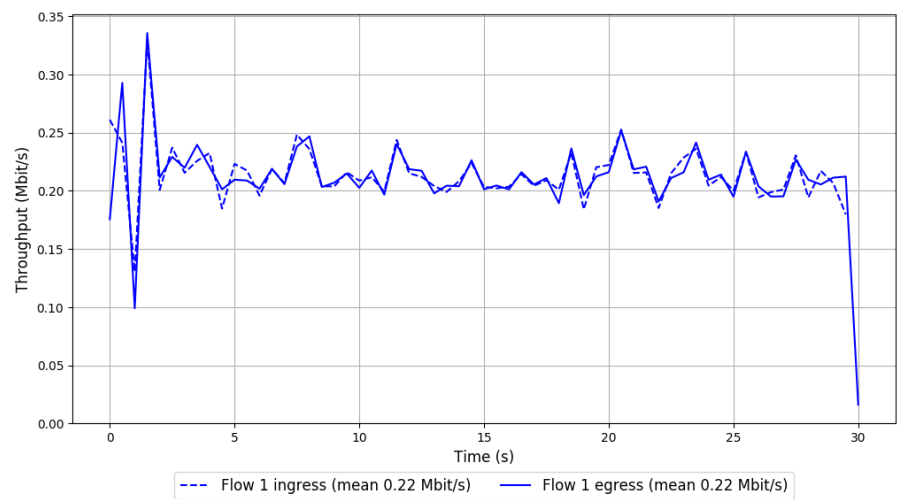
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 113.206 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link

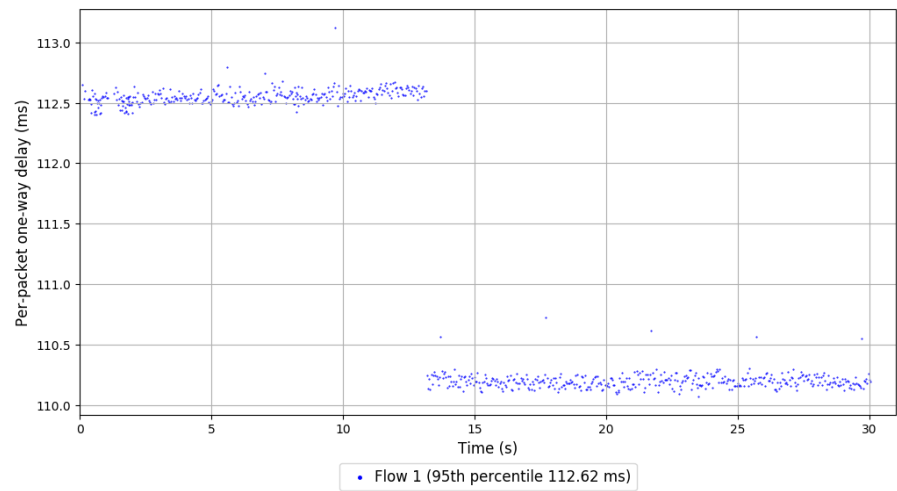
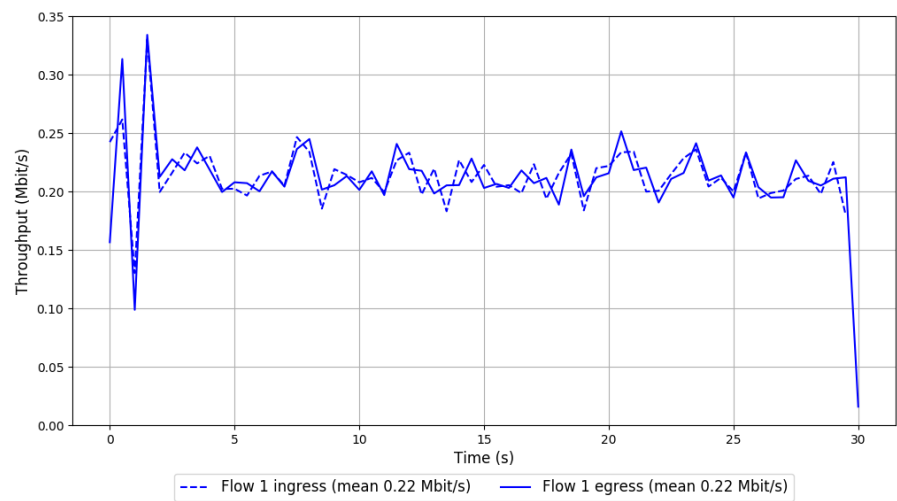


```
Run 6: Statistics of SCReAM

Start at: 2018-03-12 23:56:51
End at: 2018-03-12 23:57:21

# Below is generated by plot.py at 2018-03-13 02:44:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 112.623 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 112.623 ms
Loss rate: 0.00%
```

Run 6: Report of SReAM — Data Link

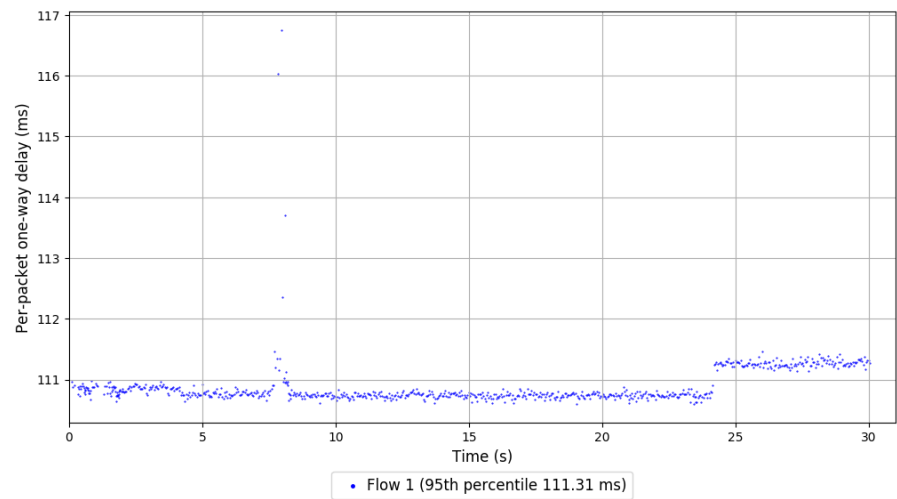
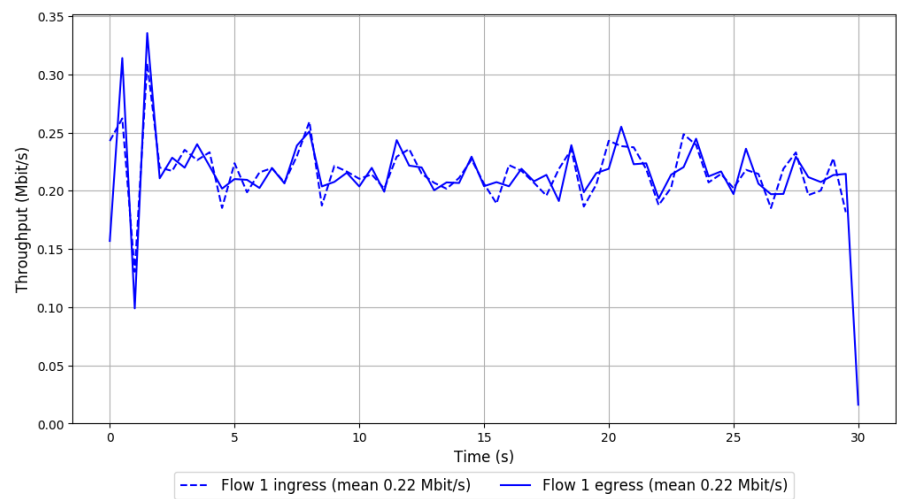


```
Run 7: Statistics of SCReAM

Start at: 2018-03-13 00:12:10
End at: 2018-03-13 00:12:40

# Below is generated by plot.py at 2018-03-13 02:44:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 111.308 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 111.308 ms
Loss rate: 0.00%
```

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-03-13 00:27:32

End at: 2018-03-13 00:28:02

Below is generated by plot.py at 2018-03-13 02:44:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 112.774 ms

Loss rate: 0.00%

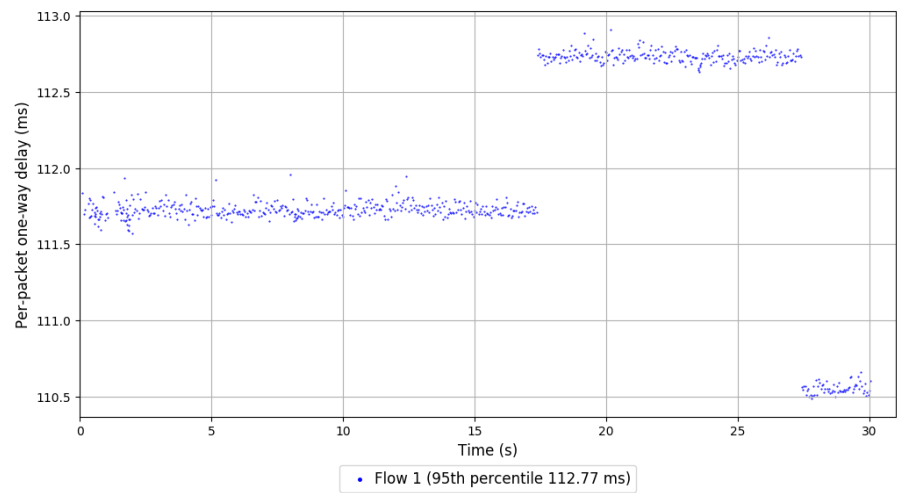
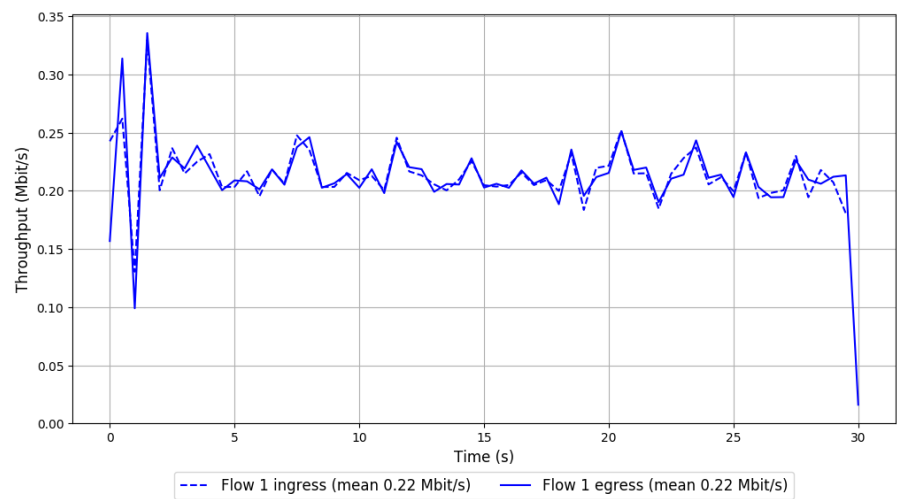
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 112.774 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-03-13 00:42:32

End at: 2018-03-13 00:43:02

Below is generated by plot.py at 2018-03-13 02:44:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 110.942 ms

Loss rate: 0.00%

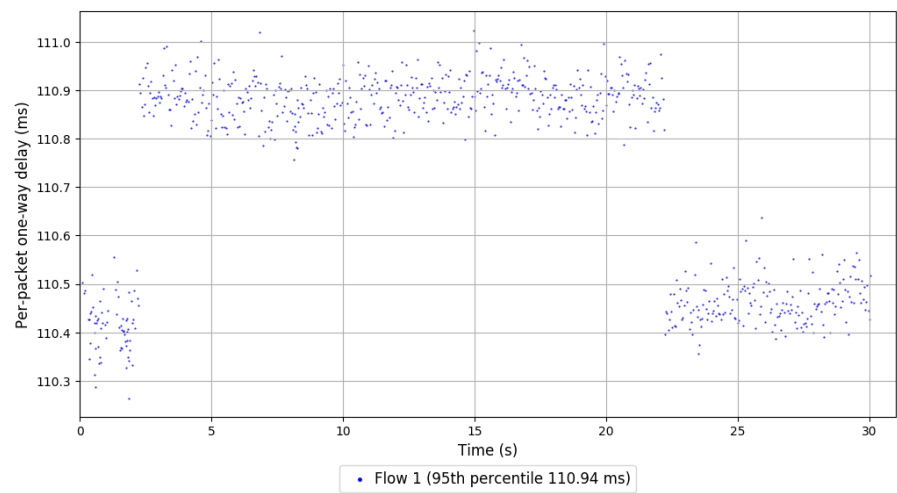
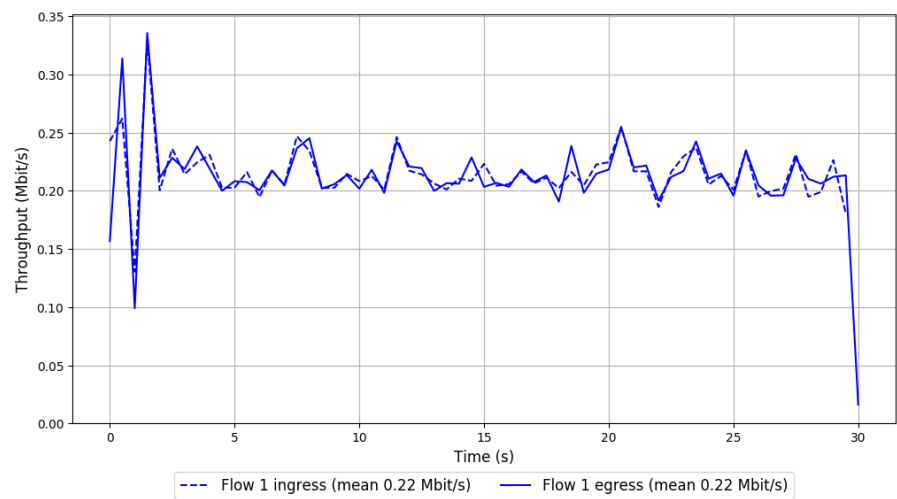
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 110.942 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-03-13 00:57:46

End at: 2018-03-13 00:58:16

Below is generated by plot.py at 2018-03-13 02:44:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 110.941 ms

Loss rate: 0.00%

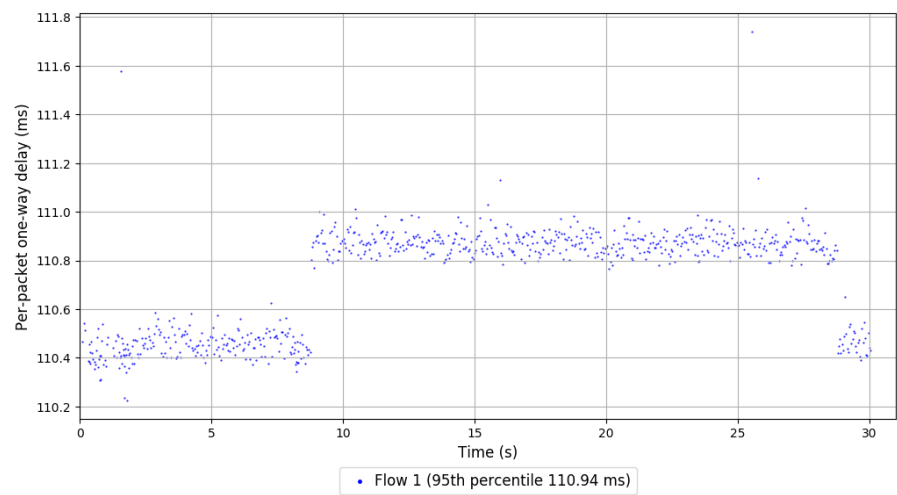
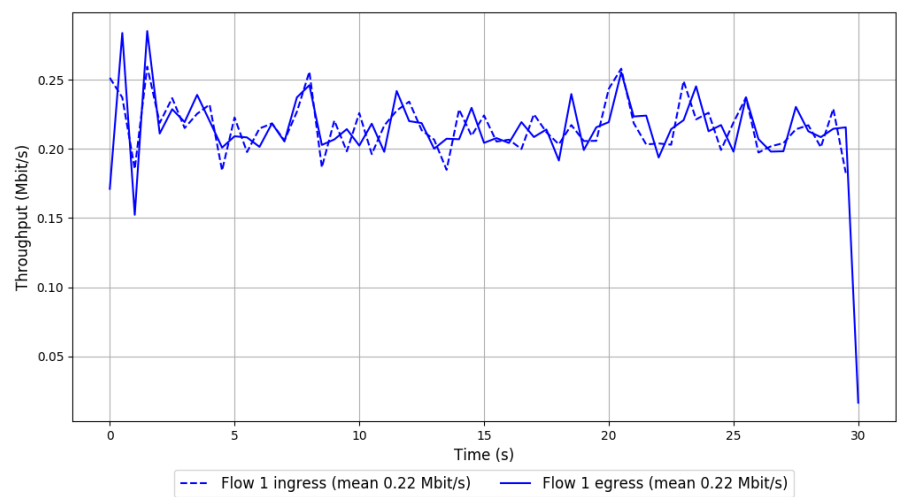
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 110.941 ms

Loss rate: 0.00%

Run 10: Report of SCReAM — Data Link

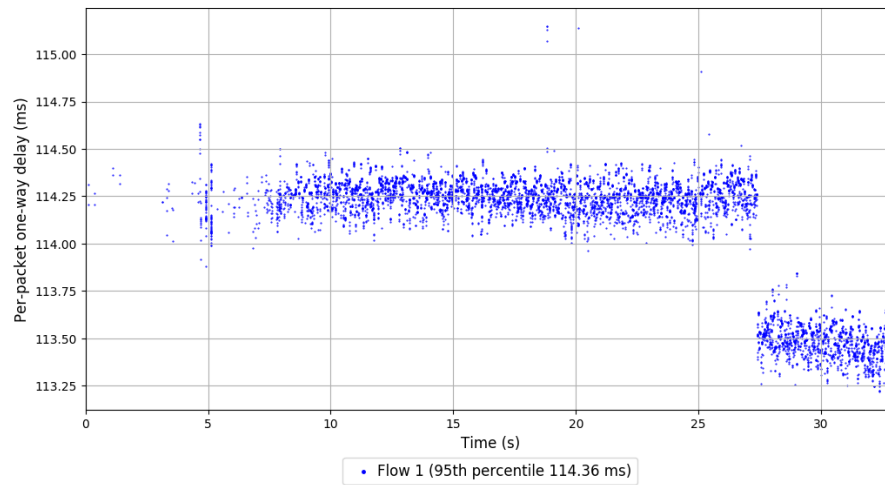
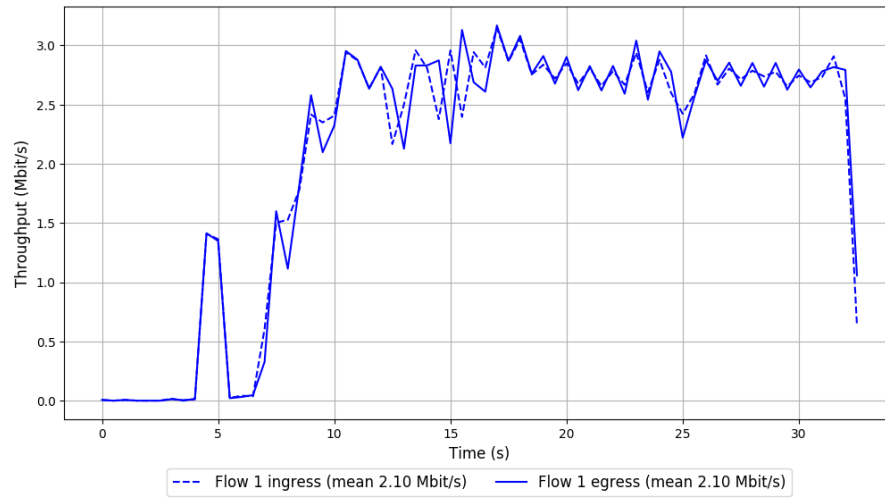


```
Run 1: Statistics of WebRTC media

Start at: 2018-03-12 22:43:20
End at: 2018-03-12 22:43:50

# Below is generated by plot.py at 2018-03-13 02:44:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.10 Mbit/s
95th percentile per-packet one-way delay: 114.362 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.10 Mbit/s
95th percentile per-packet one-way delay: 114.362 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-03-12 22:58:36

End at: 2018-03-12 22:59:06

Below is generated by plot.py at 2018-03-13 02:44:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 113.064 ms

Loss rate: 0.11%

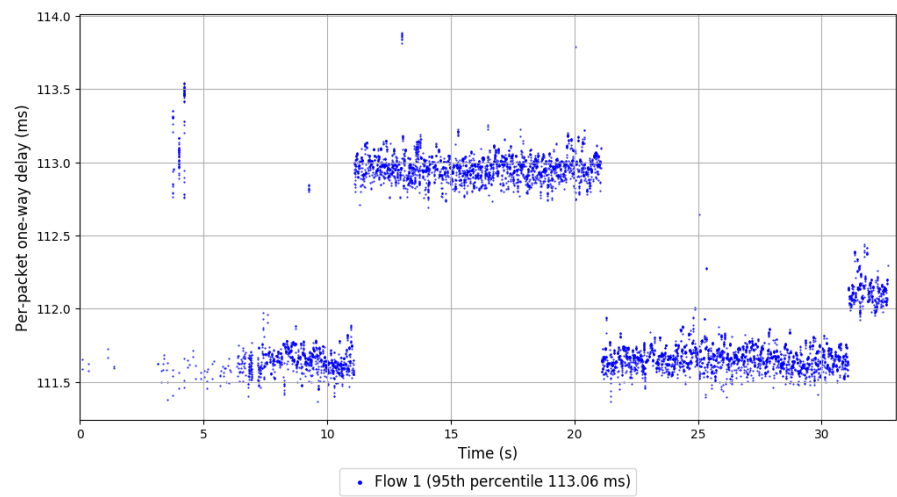
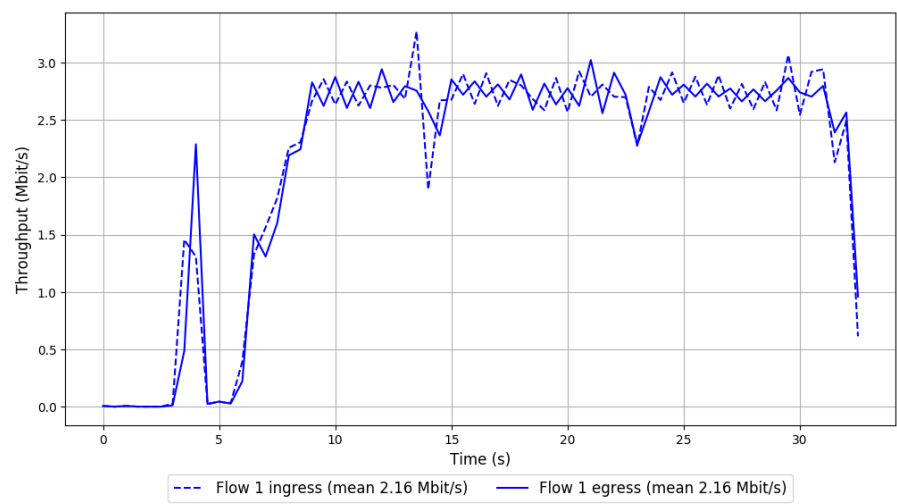
-- Flow 1:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 113.064 ms

Loss rate: 0.11%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-03-12 23:13:42

End at: 2018-03-12 23:14:12

Below is generated by plot.py at 2018-03-13 02:44:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 113.646 ms

Loss rate: 0.00%

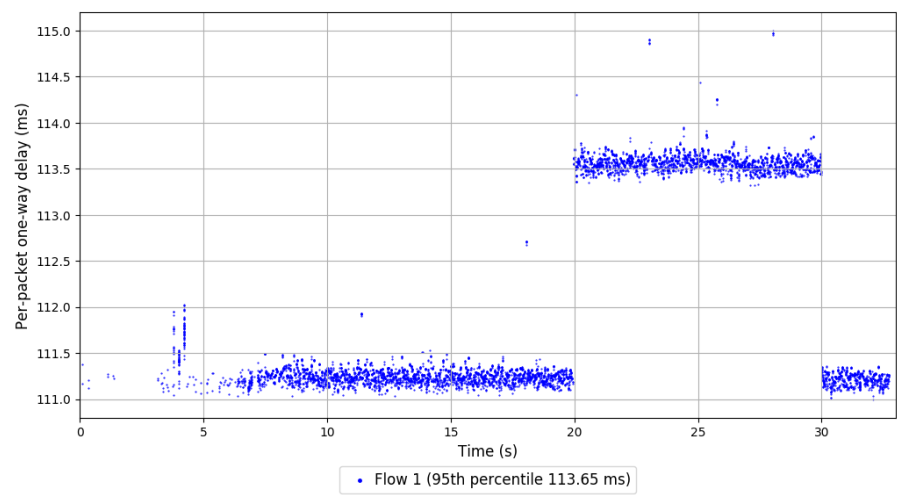
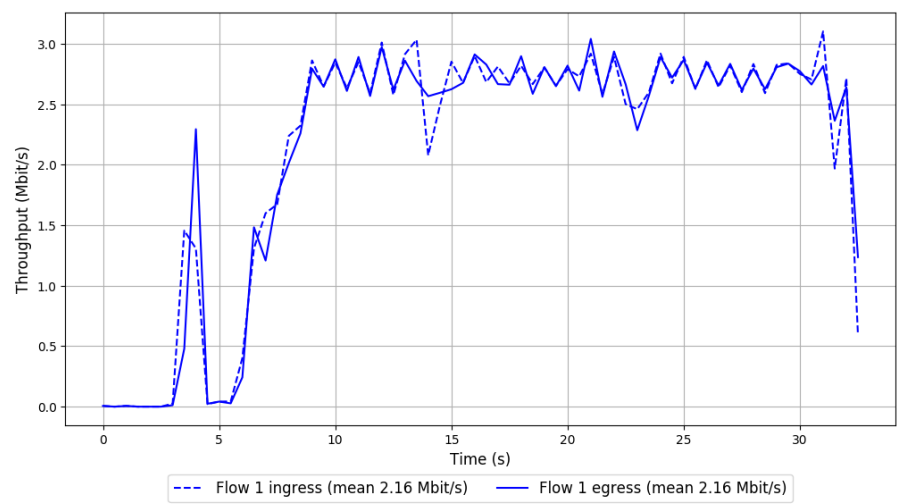
-- Flow 1:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 113.646 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-03-12 23:29:02

End at: 2018-03-12 23:29:32

Below is generated by plot.py at 2018-03-13 02:44:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 111.248 ms

Loss rate: 0.00%

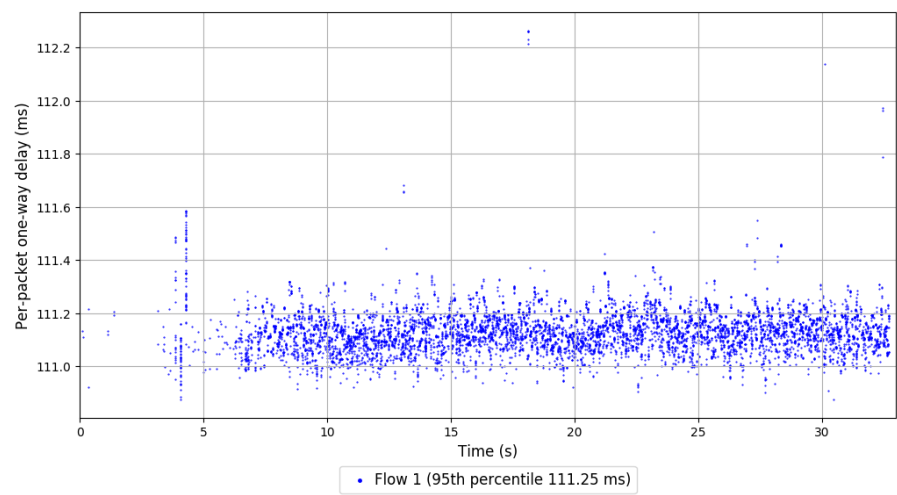
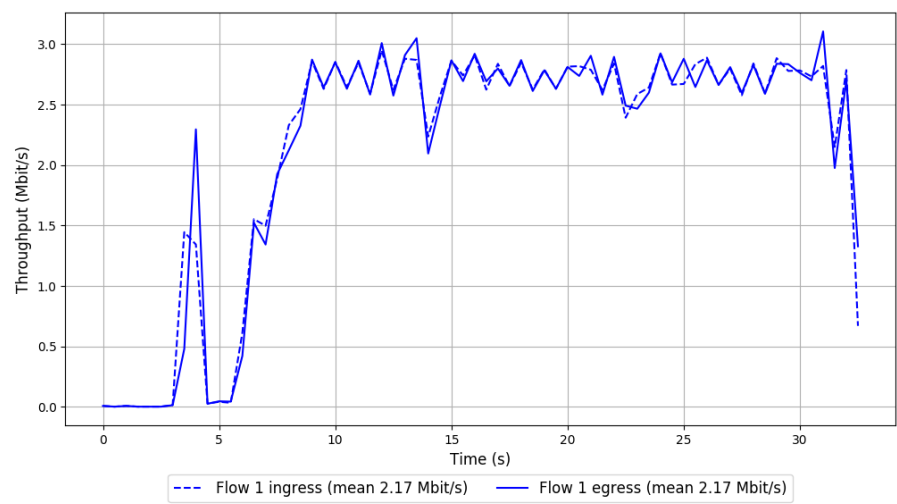
-- Flow 1:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 111.248 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-03-12 23:43:59

End at: 2018-03-12 23:44:29

Below is generated by plot.py at 2018-03-13 02:44:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 113.205 ms

Loss rate: 0.00%

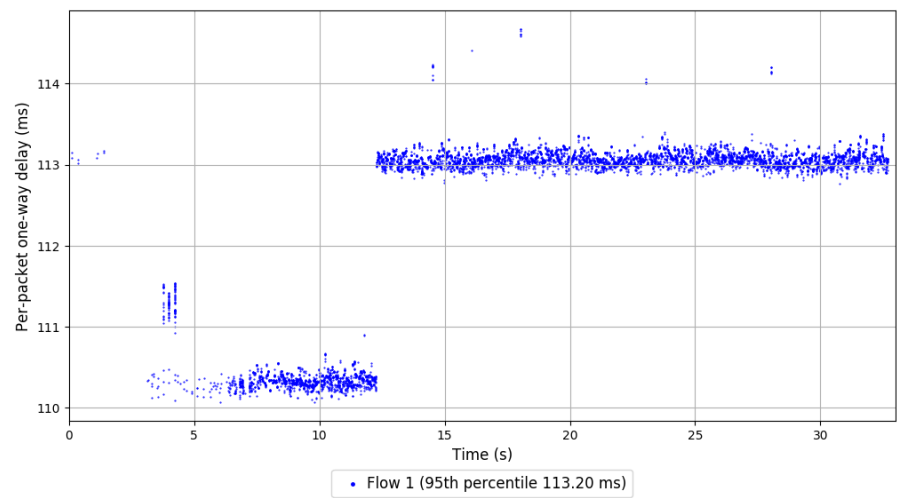
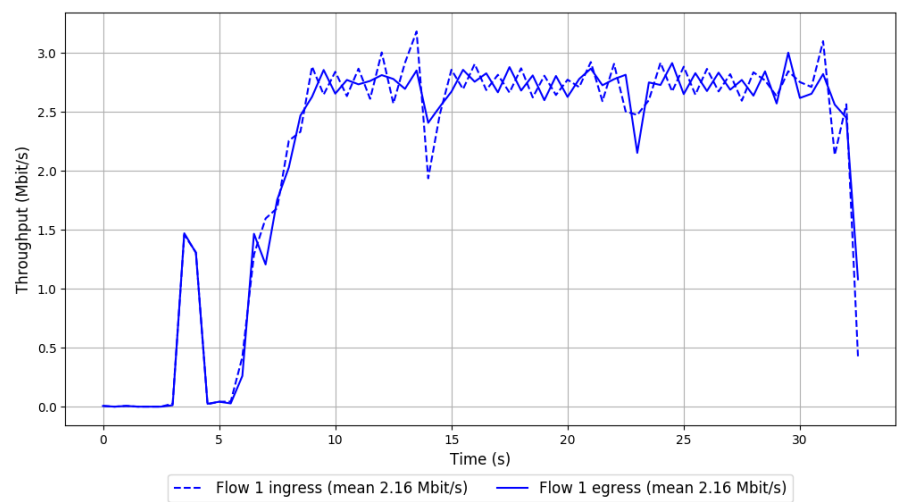
-- Flow 1:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 113.205 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-03-12 23:59:21

End at: 2018-03-12 23:59:51

Below is generated by plot.py at 2018-03-13 02:44:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 112.807 ms

Loss rate: 0.00%

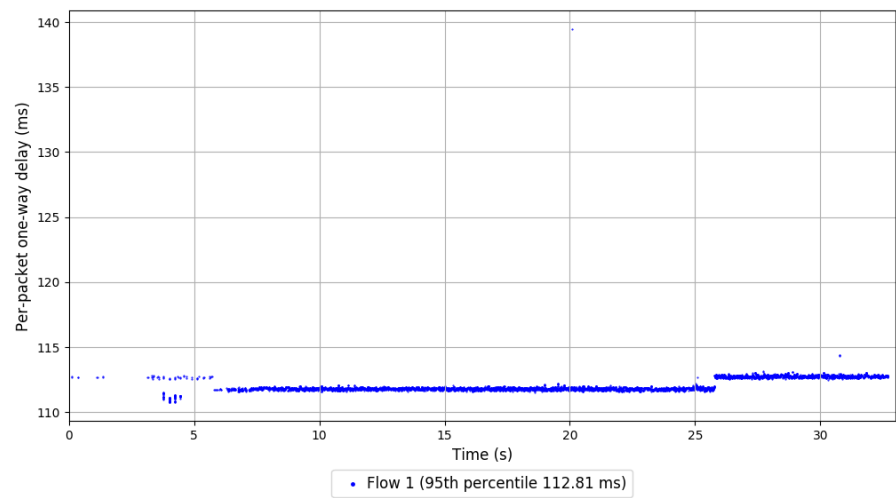
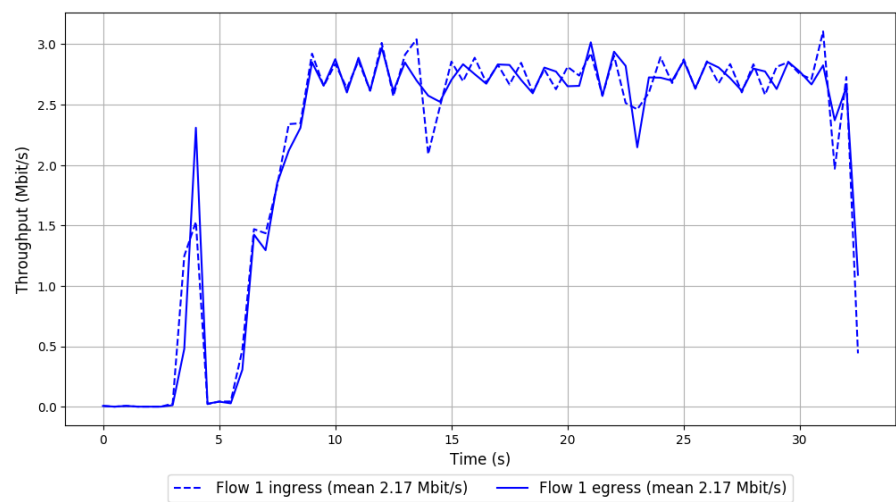
-- Flow 1:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 112.807 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-03-13 00:14:38

End at: 2018-03-13 00:15:08

Below is generated by plot.py at 2018-03-13 02:44:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 110.702 ms

Loss rate: 0.00%

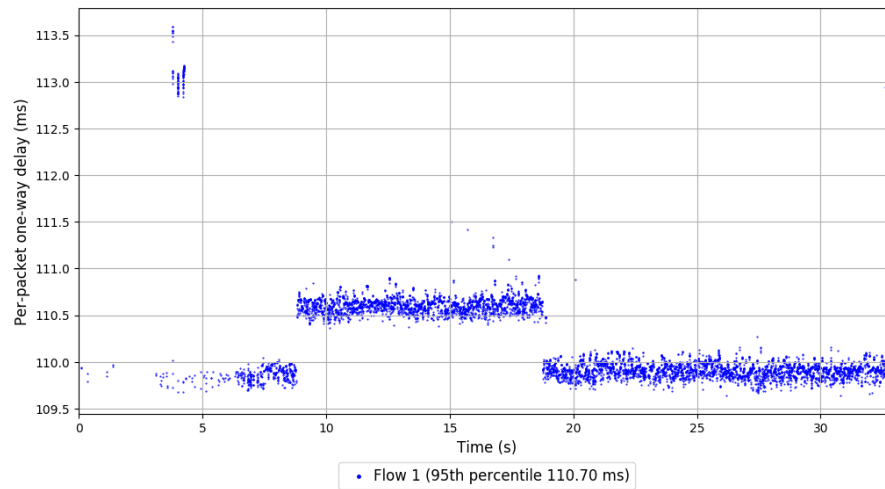
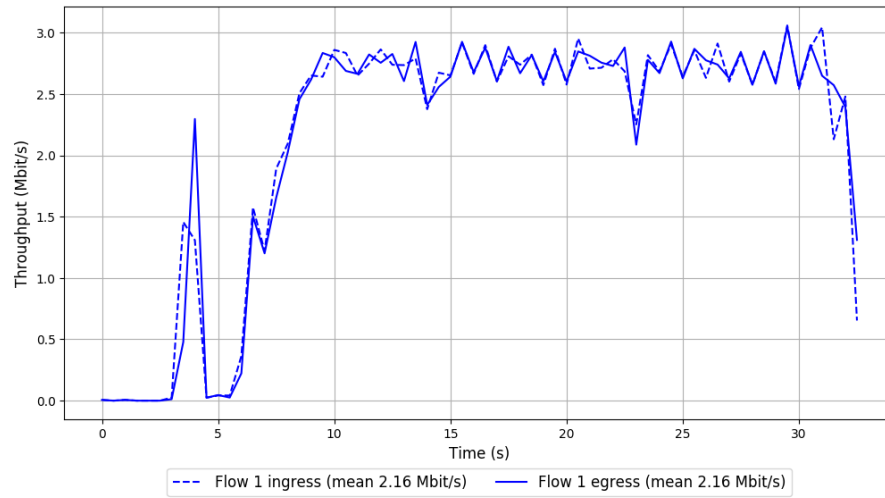
-- Flow 1:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 110.702 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-03-13 00:29:57

End at: 2018-03-13 00:30:27

Below is generated by plot.py at 2018-03-13 02:44:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 112.968 ms

Loss rate: 0.00%

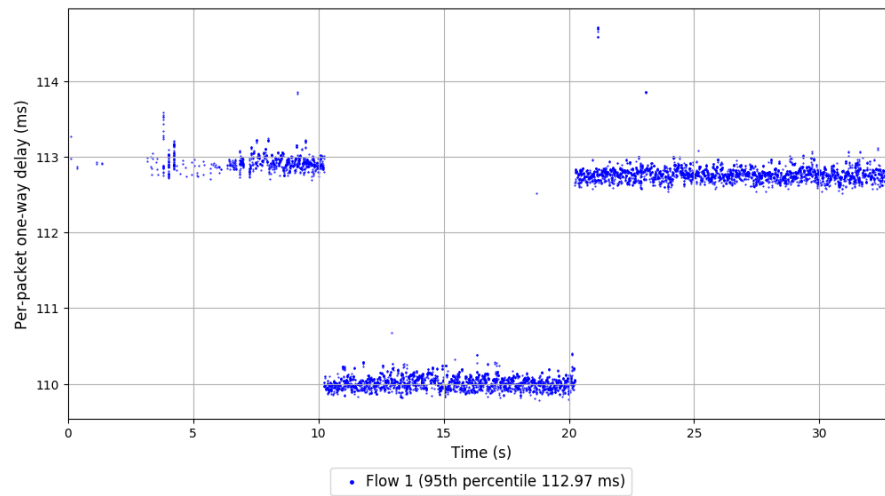
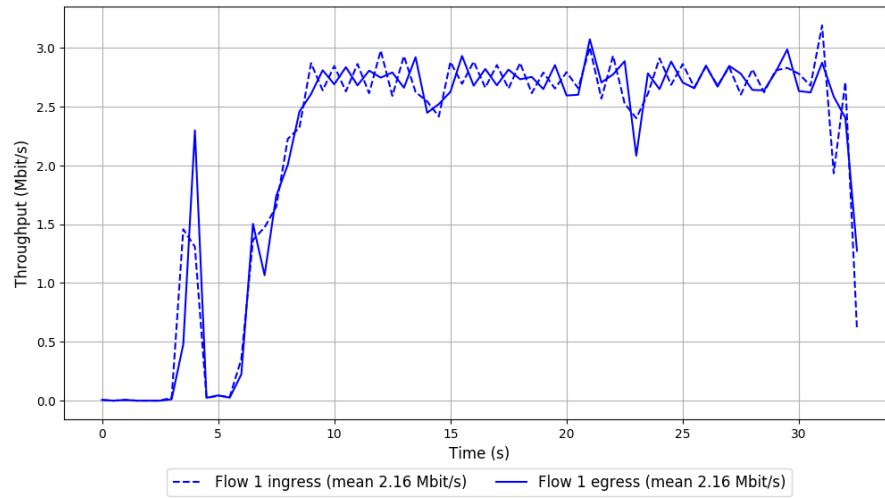
-- Flow 1:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 112.968 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-03-13 00:45:01

End at: 2018-03-13 00:45:31

Below is generated by plot.py at 2018-03-13 02:44:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 114.804 ms

Loss rate: 0.00%

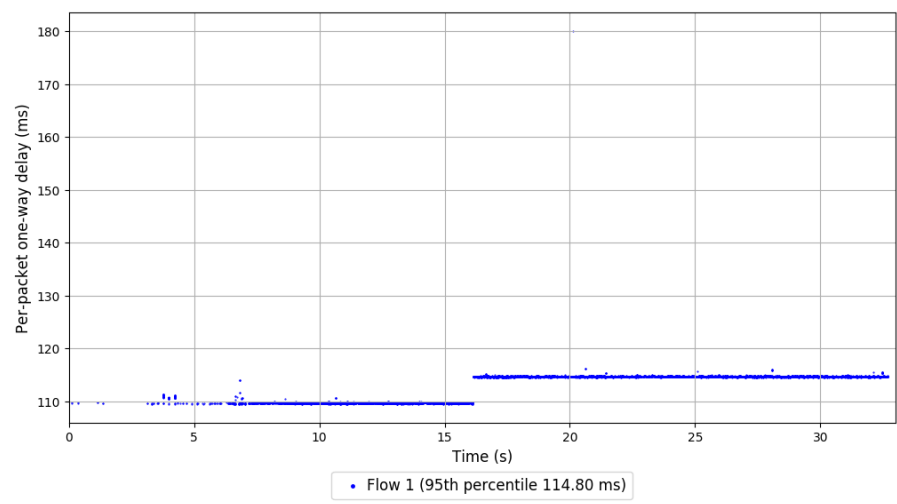
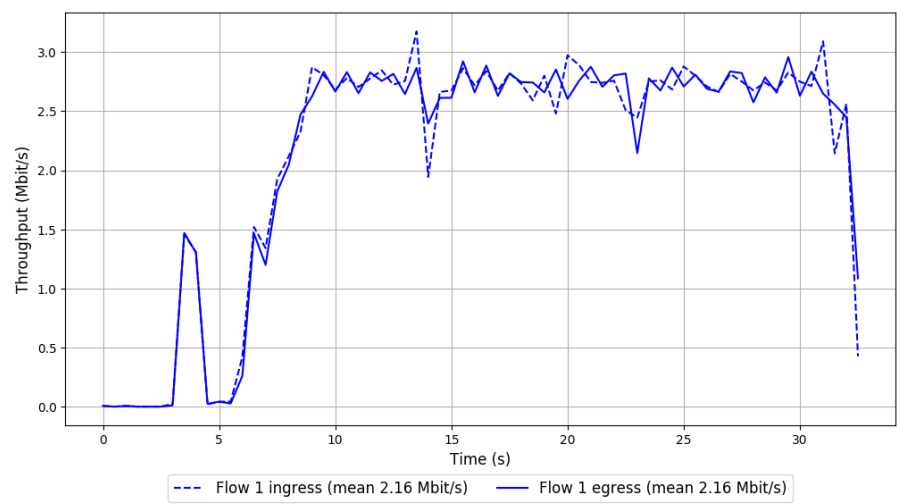
-- Flow 1:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 114.804 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-03-13 01:00:45

End at: 2018-03-13 01:01:15

Below is generated by plot.py at 2018-03-13 02:44:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 112.750 ms

Loss rate: 0.00%

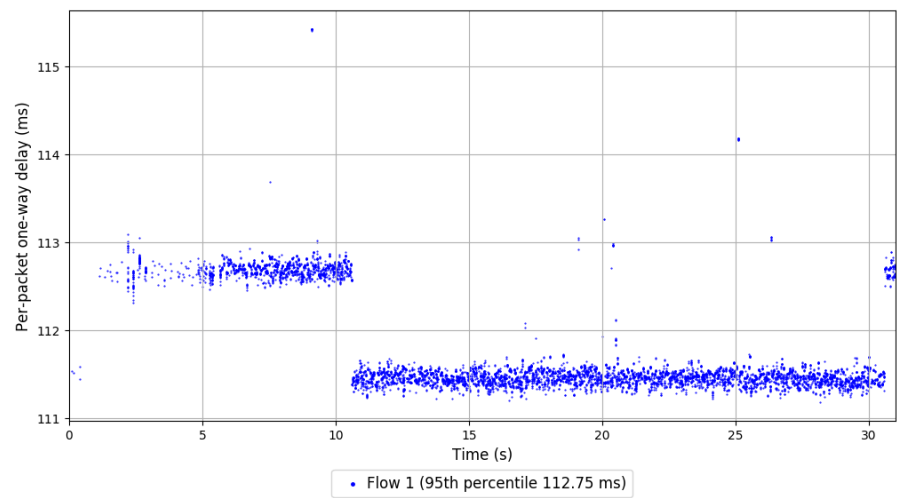
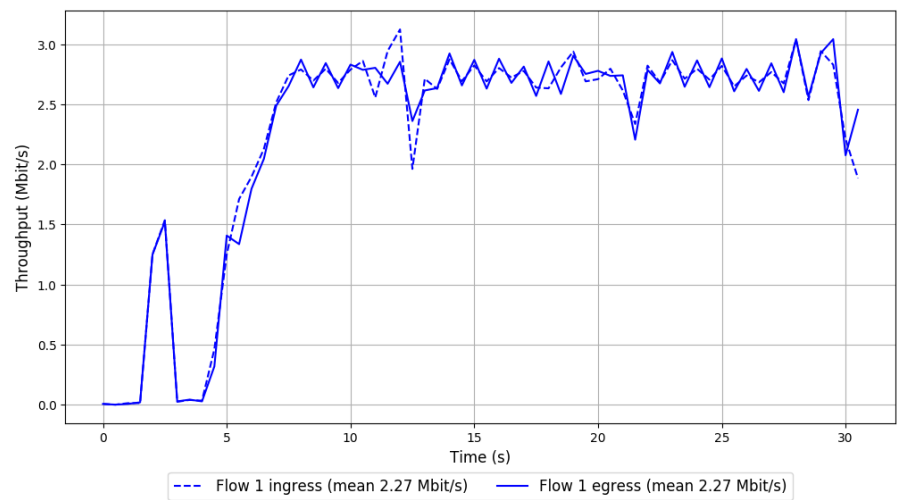
-- Flow 1:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 112.750 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

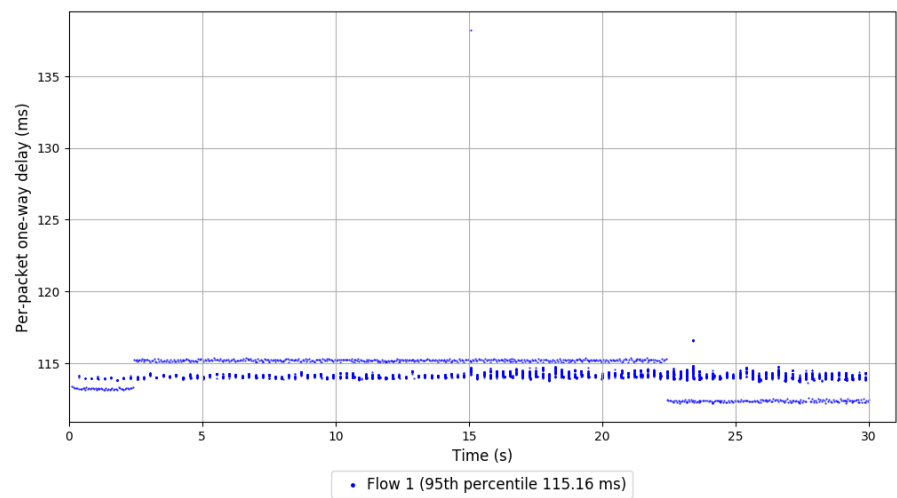
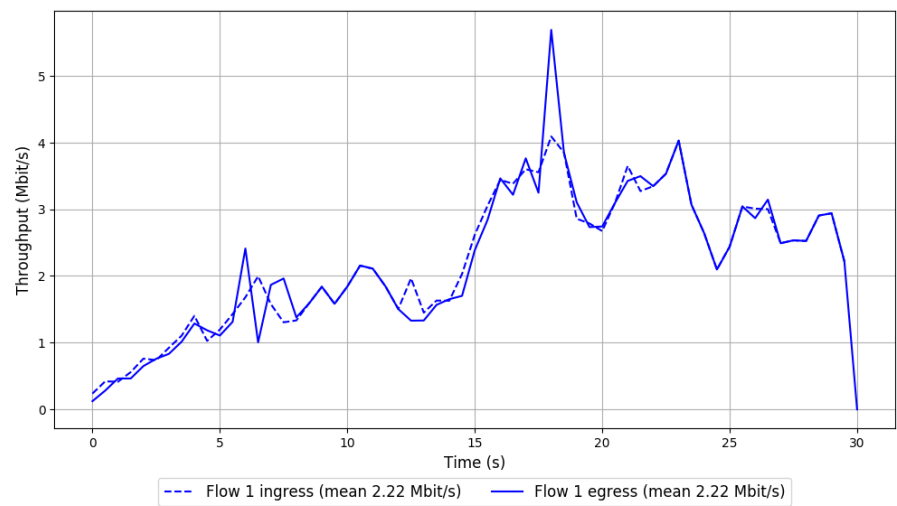


```
Run 1: Statistics of Sprout

Start at: 2018-03-12 22:35:02
End at: 2018-03-12 22:35:32

# Below is generated by plot.py at 2018-03-13 02:44:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.22 Mbit/s
95th percentile per-packet one-way delay: 115.164 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.22 Mbit/s
95th percentile per-packet one-way delay: 115.164 ms
Loss rate: 0.00%
```

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-03-12 22:50:23

End at: 2018-03-12 22:50:53

Below is generated by plot.py at 2018-03-13 02:44:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.60 Mbit/s

95th percentile per-packet one-way delay: 113.885 ms

Loss rate: 0.00%

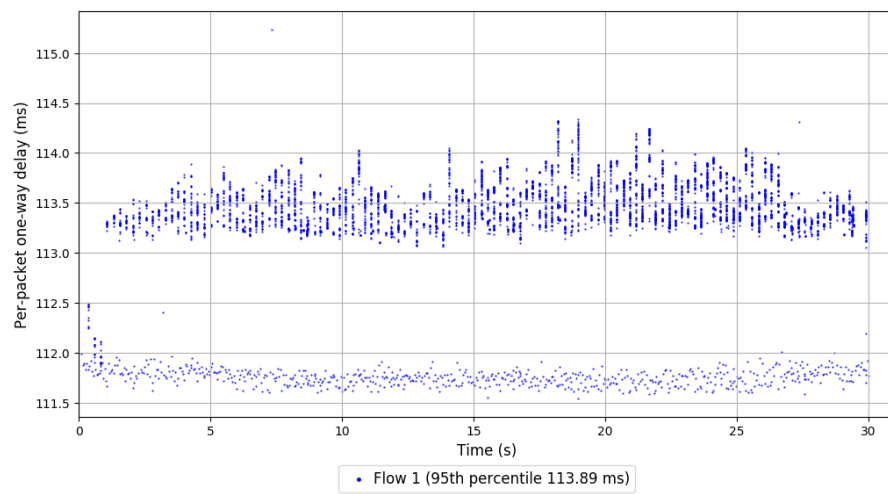
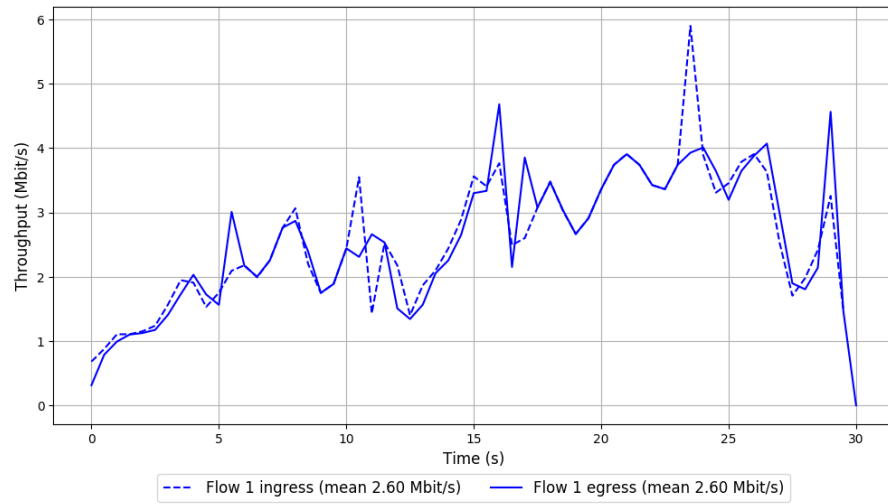
-- Flow 1:

Average throughput: 2.60 Mbit/s

95th percentile per-packet one-way delay: 113.885 ms

Loss rate: 0.00%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-03-12 23:05:32

End at: 2018-03-12 23:06:02

Below is generated by plot.py at 2018-03-13 02:44:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 113.320 ms

Loss rate: 0.00%

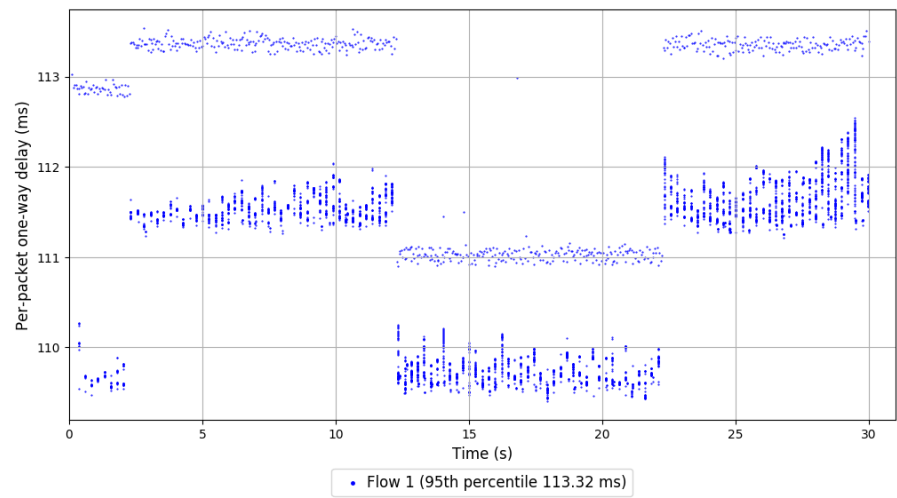
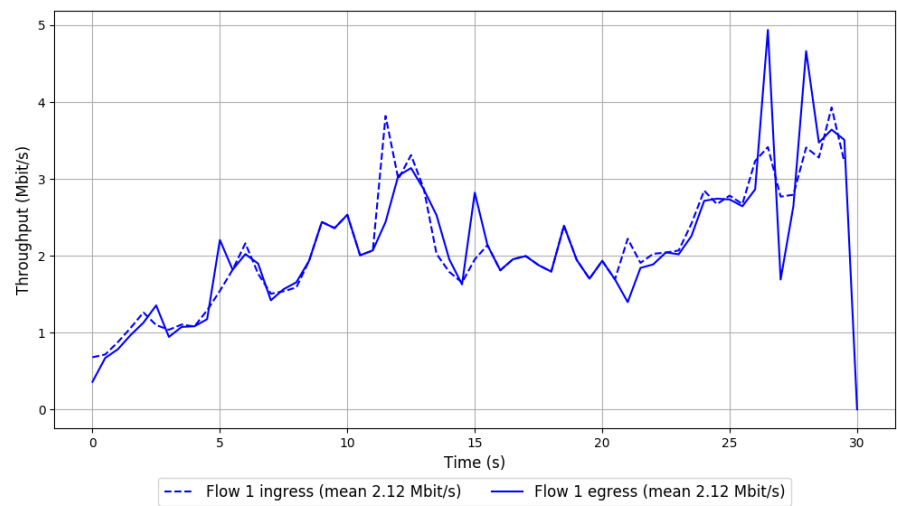
-- Flow 1:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 113.320 ms

Loss rate: 0.00%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-03-12 23:20:44

End at: 2018-03-12 23:21:14

Below is generated by plot.py at 2018-03-13 02:44:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.53 Mbit/s

95th percentile per-packet one-way delay: 113.714 ms

Loss rate: 0.00%

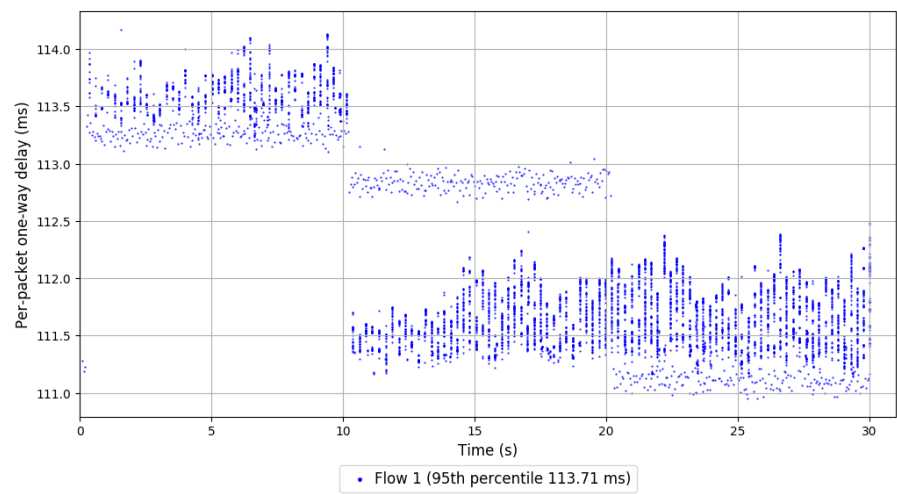
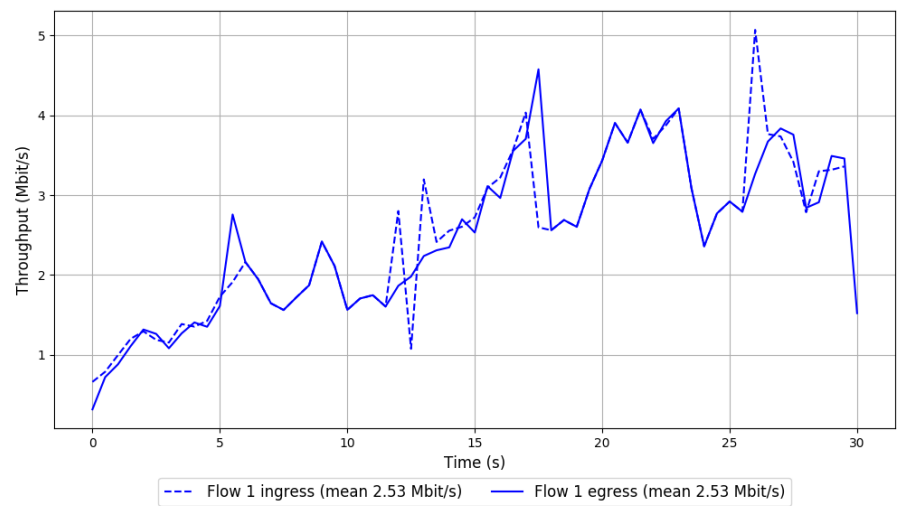
-- Flow 1:

Average throughput: 2.53 Mbit/s

95th percentile per-packet one-way delay: 113.714 ms

Loss rate: 0.00%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-03-12 23:35:58

End at: 2018-03-12 23:36:28

Below is generated by plot.py at 2018-03-13 02:44:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.74 Mbit/s

95th percentile per-packet one-way delay: 113.822 ms

Loss rate: 0.00%

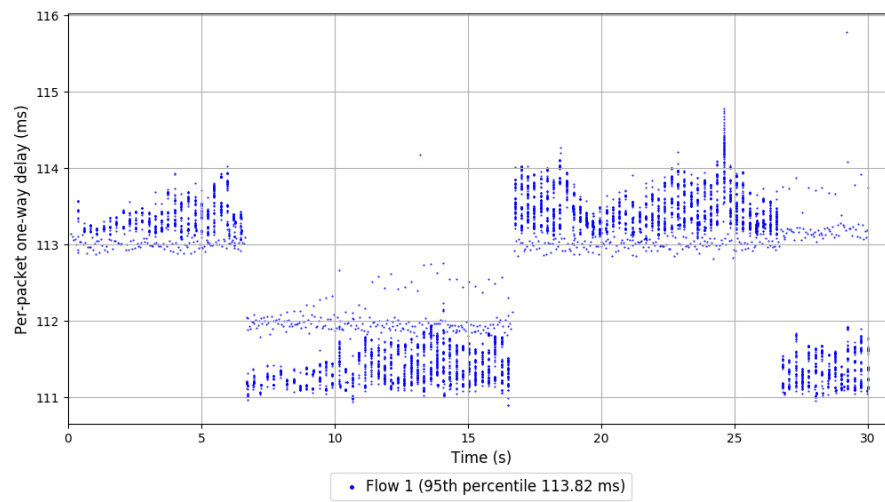
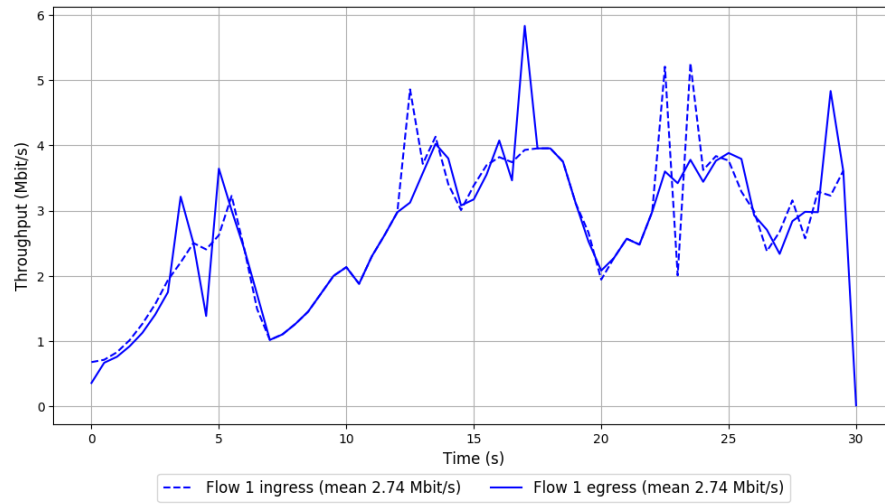
-- Flow 1:

Average throughput: 2.74 Mbit/s

95th percentile per-packet one-way delay: 113.822 ms

Loss rate: 0.00%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-03-12 23:51:02

End at: 2018-03-12 23:51:32

Below is generated by plot.py at 2018-03-13 02:44:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.46 Mbit/s

95th percentile per-packet one-way delay: 113.250 ms

Loss rate: 0.00%

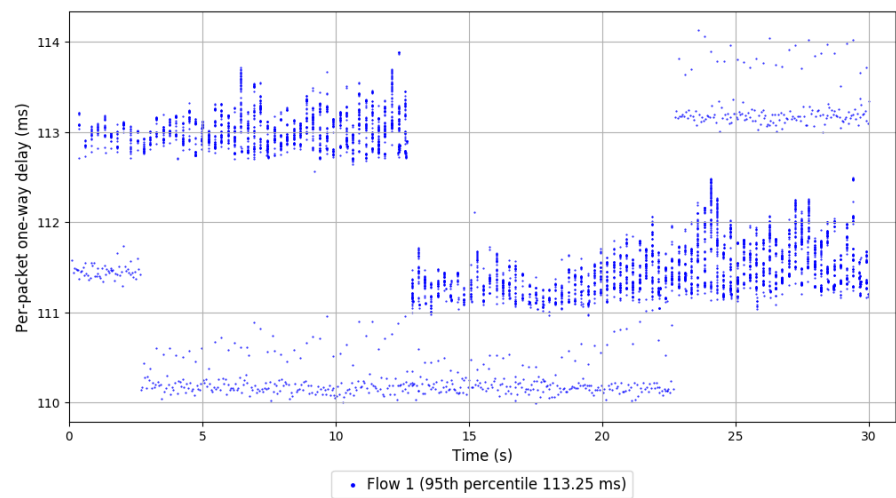
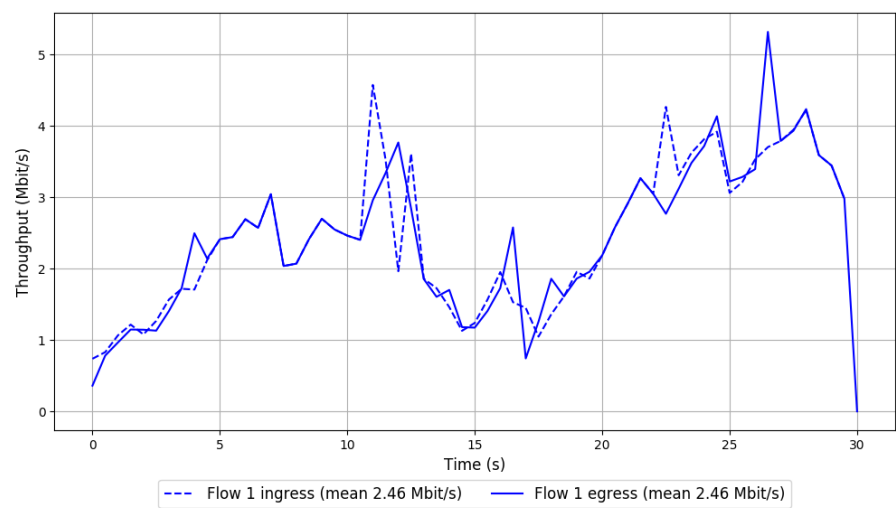
-- Flow 1:

Average throughput: 2.46 Mbit/s

95th percentile per-packet one-way delay: 113.250 ms

Loss rate: 0.00%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-03-13 00:06:26

End at: 2018-03-13 00:06:56

Below is generated by plot.py at 2018-03-13 02:44:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.92 Mbit/s

95th percentile per-packet one-way delay: 113.805 ms

Loss rate: 0.00%

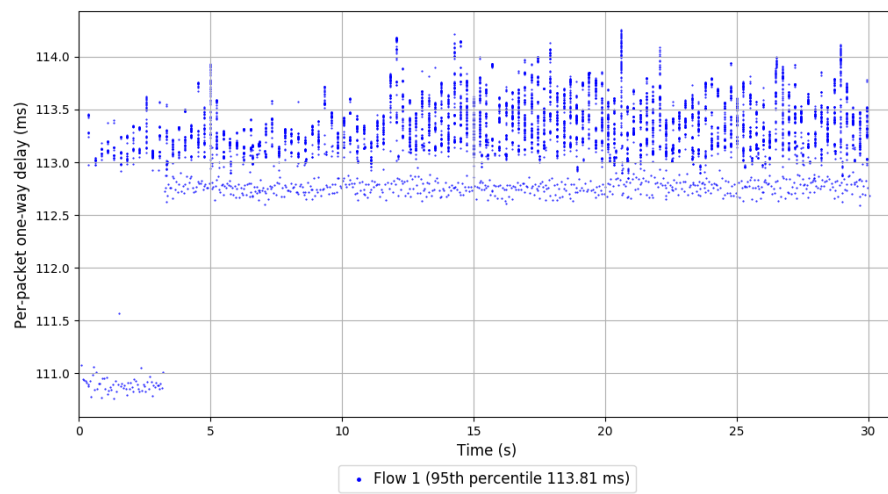
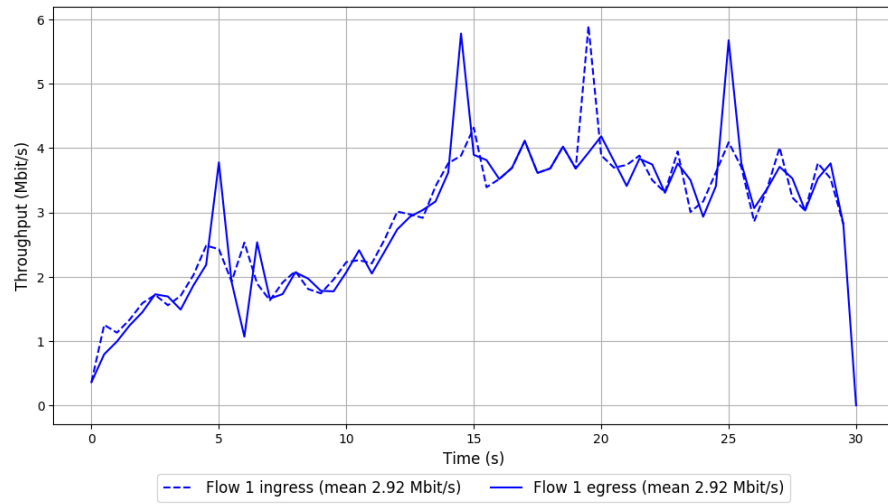
-- Flow 1:

Average throughput: 2.92 Mbit/s

95th percentile per-packet one-way delay: 113.805 ms

Loss rate: 0.00%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-03-13 00:21:44

End at: 2018-03-13 00:22:14

Below is generated by plot.py at 2018-03-13 02:44:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.89 Mbit/s

95th percentile per-packet one-way delay: 113.610 ms

Loss rate: 0.00%

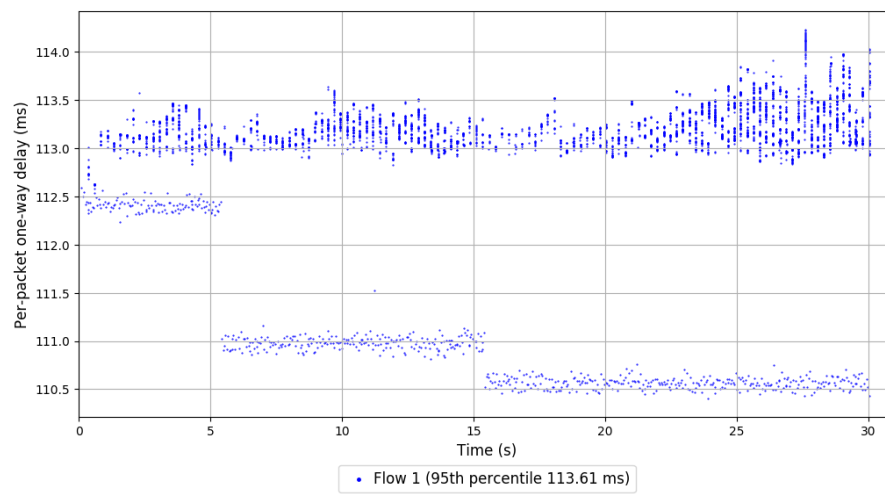
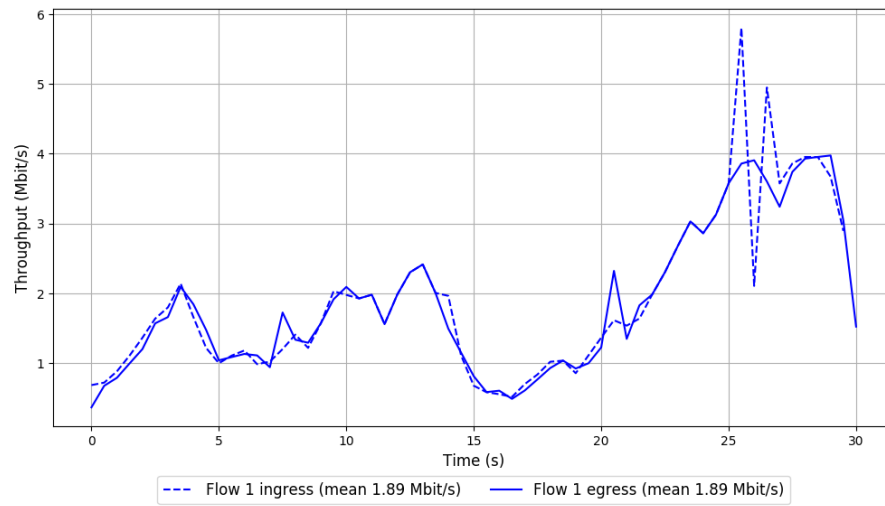
-- Flow 1:

Average throughput: 1.89 Mbit/s

95th percentile per-packet one-way delay: 113.610 ms

Loss rate: 0.00%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-03-13 00:36:54

End at: 2018-03-13 00:37:25

Below is generated by plot.py at 2018-03-13 02:44:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.50 Mbit/s

95th percentile per-packet one-way delay: 112.896 ms

Loss rate: 0.00%

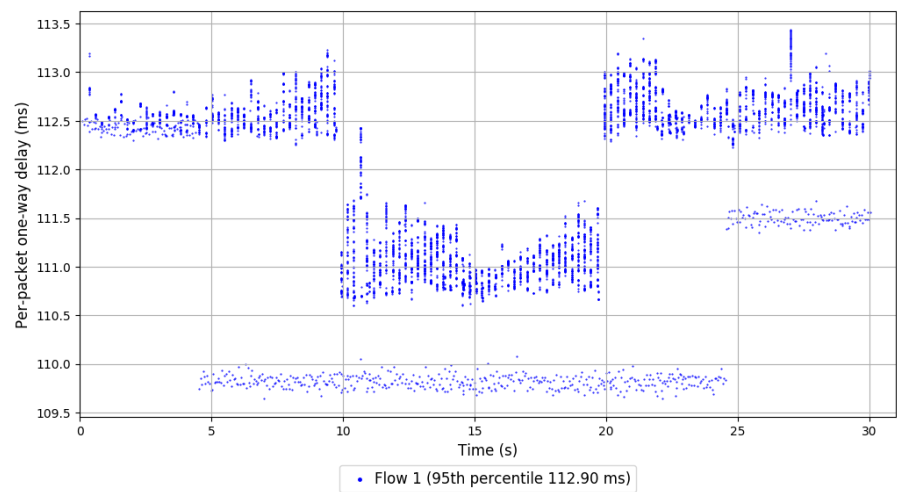
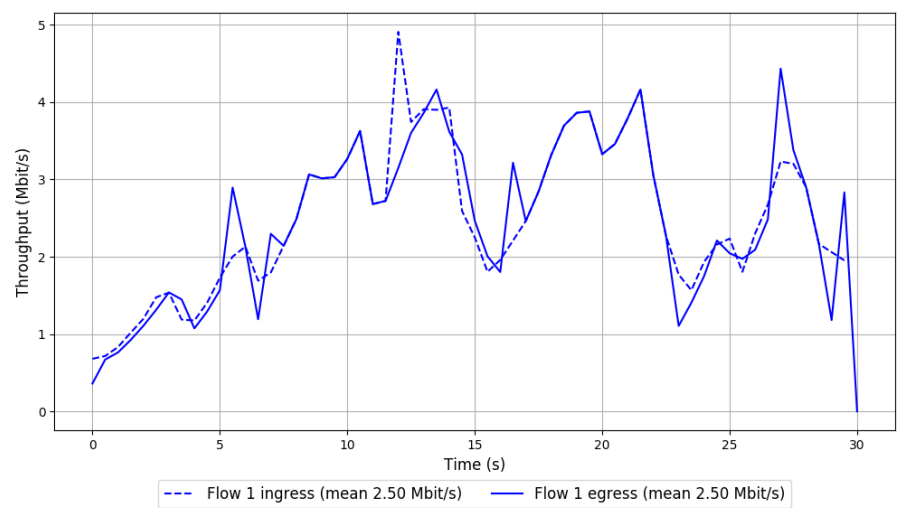
-- Flow 1:

Average throughput: 2.50 Mbit/s

95th percentile per-packet one-way delay: 112.896 ms

Loss rate: 0.00%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-03-13 00:52:05

End at: 2018-03-13 00:52:35

Below is generated by plot.py at 2018-03-13 02:44:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.17 Mbit/s

95th percentile per-packet one-way delay: 113.301 ms

Loss rate: 0.00%

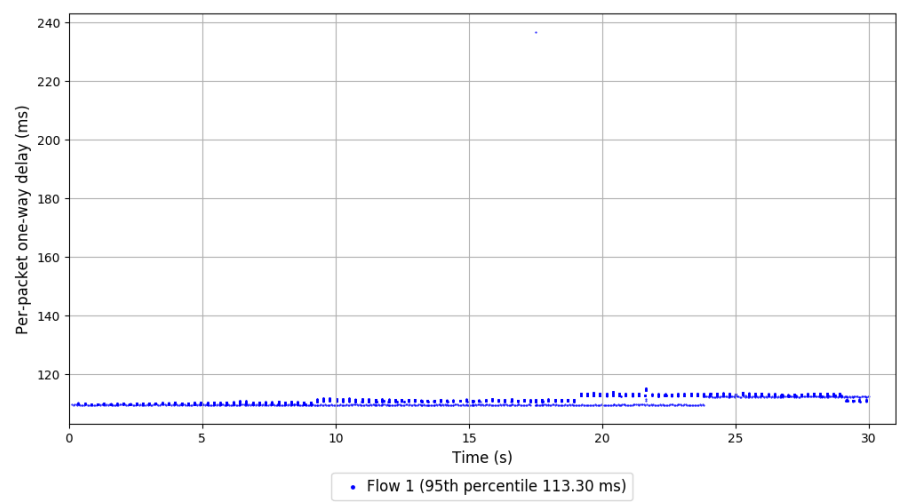
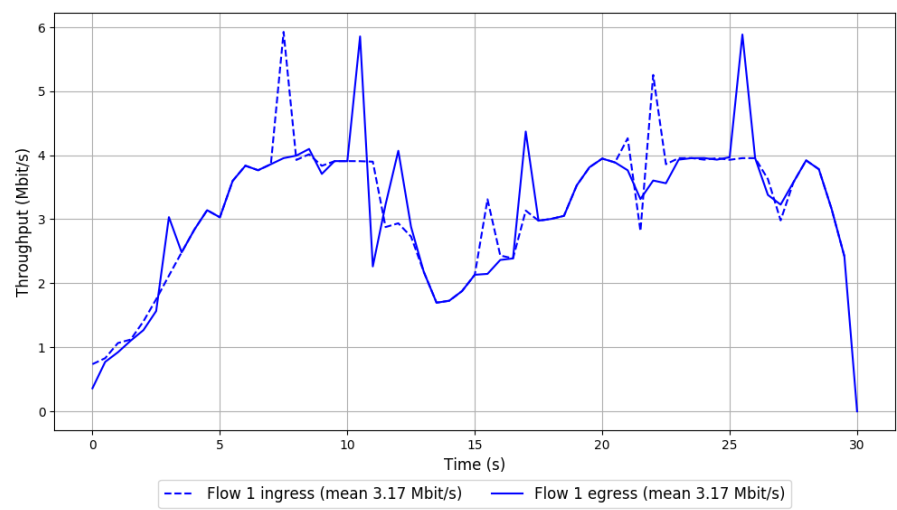
-- Flow 1:

Average throughput: 3.17 Mbit/s

95th percentile per-packet one-way delay: 113.301 ms

Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

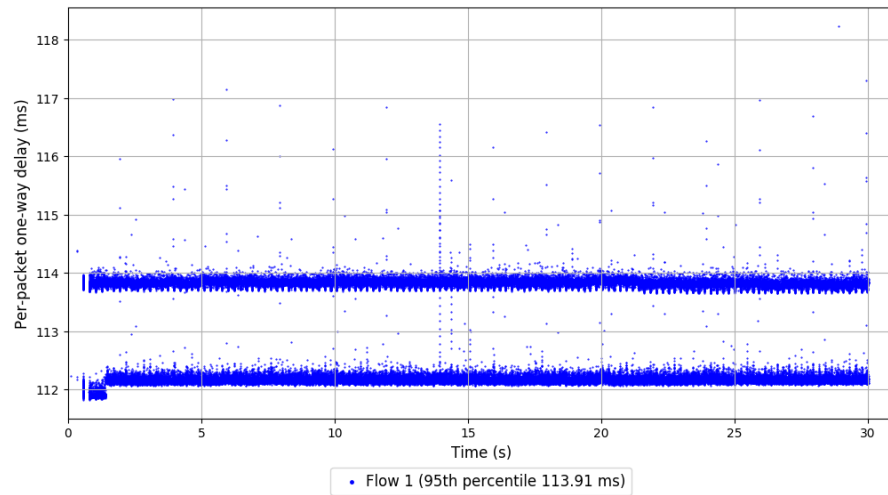
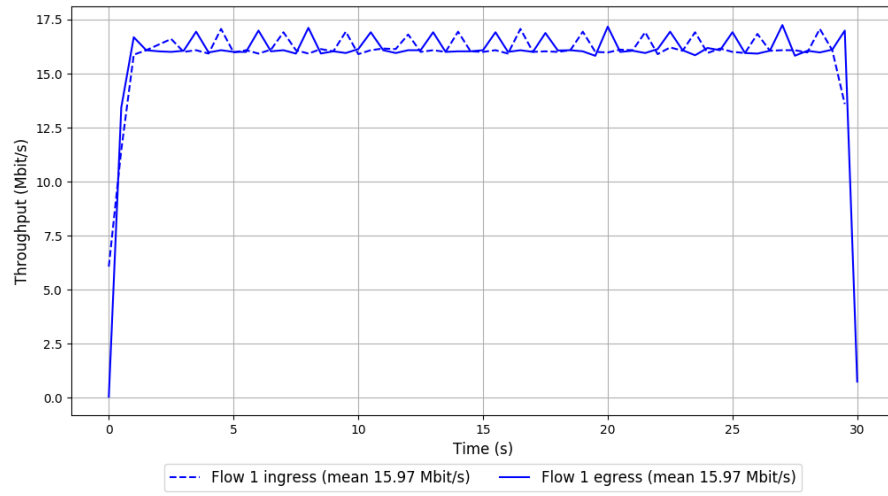


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-03-12 22:40:03
End at: 2018-03-12 22:40:33

# Below is generated by plot.py at 2018-03-13 02:44:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 15.97 Mbit/s
95th percentile per-packet one-way delay: 113.906 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 15.97 Mbit/s
95th percentile per-packet one-way delay: 113.906 ms
Loss rate: 0.01%
```

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

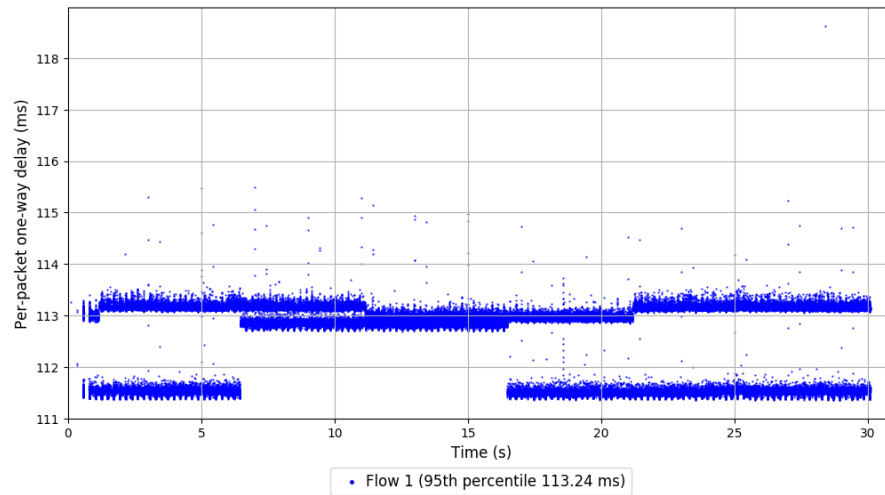
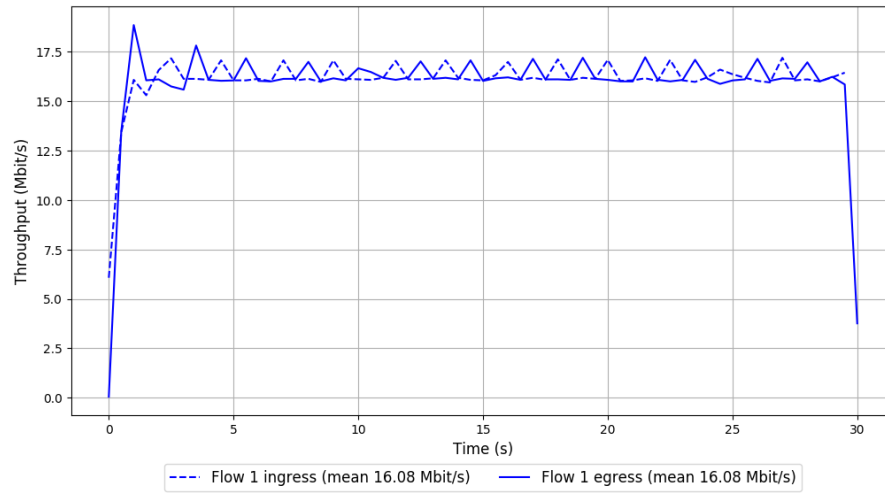


```
Run 2: Statistics of TaoVA-100x

Start at: 2018-03-12 22:55:28
End at: 2018-03-12 22:55:58

# Below is generated by plot.py at 2018-03-13 02:44:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 16.08 Mbit/s
95th percentile per-packet one-way delay: 113.243 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 16.08 Mbit/s
95th percentile per-packet one-way delay: 113.243 ms
Loss rate: 0.00%
```

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

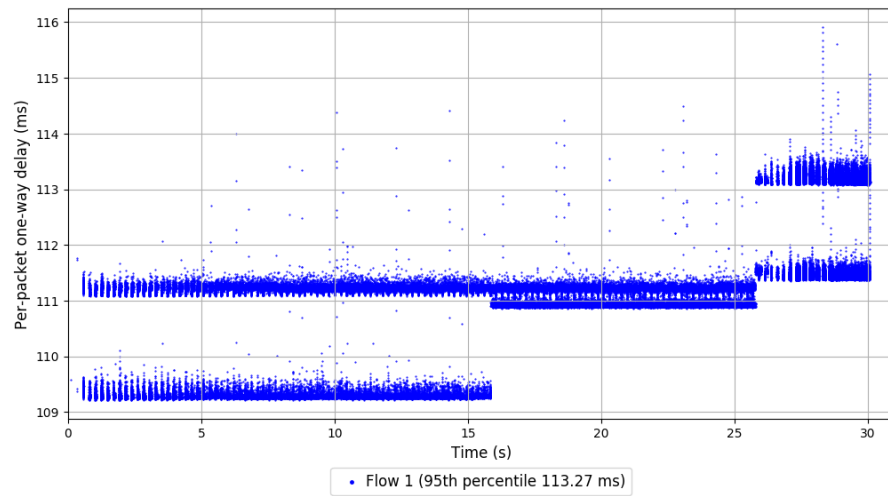
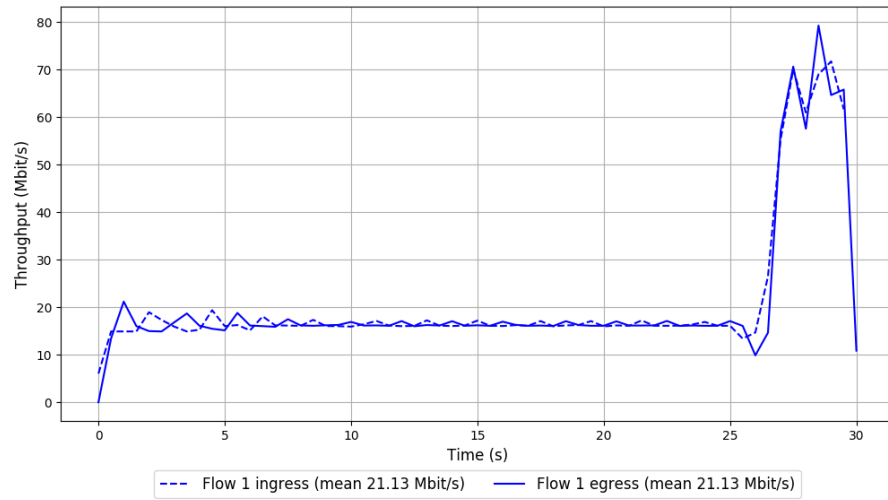


```
Run 3: Statistics of TaoVA-100x

Start at: 2018-03-12 23:10:29
End at: 2018-03-12 23:10:59

# Below is generated by plot.py at 2018-03-13 02:44:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 21.13 Mbit/s
95th percentile per-packet one-way delay: 113.265 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 21.13 Mbit/s
95th percentile per-packet one-way delay: 113.265 ms
Loss rate: 0.00%
```

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-03-12 23:25:43

End at: 2018-03-12 23:26:13

Below is generated by plot.py at 2018-03-13 02:44:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 10.82 Mbit/s

95th percentile per-packet one-way delay: 113.114 ms

Loss rate: 0.00%

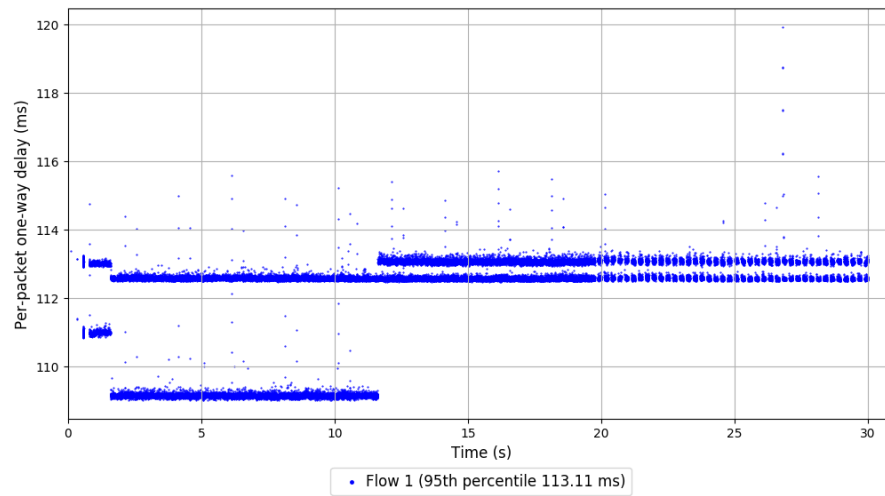
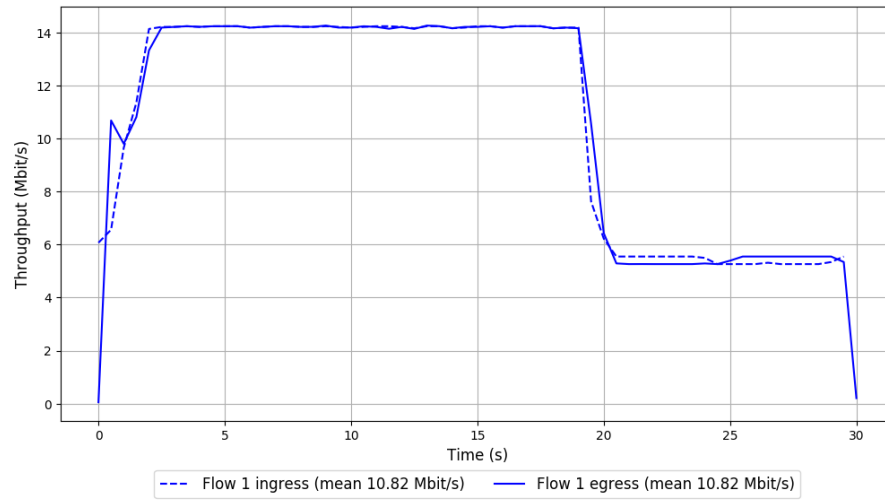
-- Flow 1:

Average throughput: 10.82 Mbit/s

95th percentile per-packet one-way delay: 113.114 ms

Loss rate: 0.00%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-03-12 23:40:50

End at: 2018-03-12 23:41:20

Below is generated by plot.py at 2018-03-13 02:44:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 32.29 Mbit/s

95th percentile per-packet one-way delay: 113.114 ms

Loss rate: 0.00%

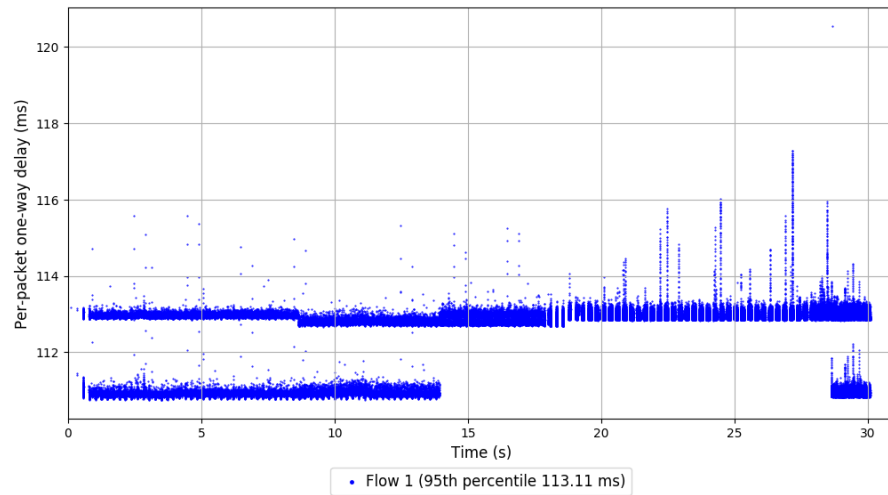
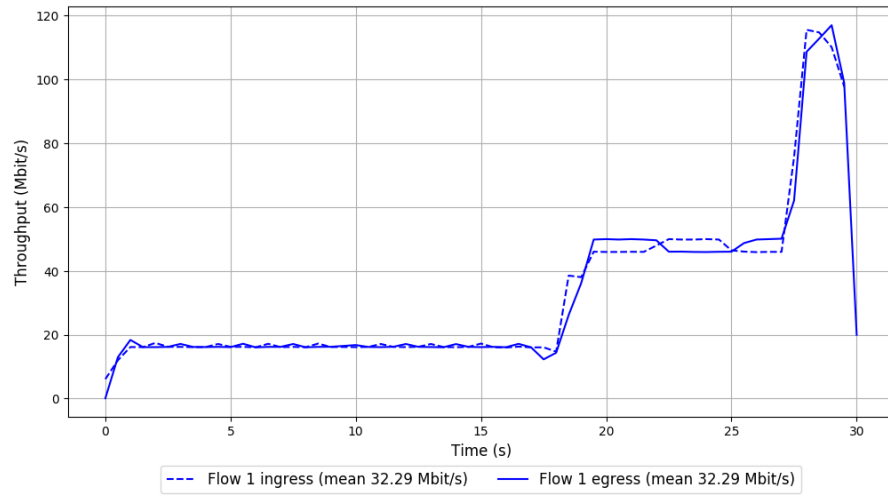
-- Flow 1:

Average throughput: 32.29 Mbit/s

95th percentile per-packet one-way delay: 113.114 ms

Loss rate: 0.00%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-03-12 23:55:53

End at: 2018-03-12 23:56:23

Below is generated by plot.py at 2018-03-13 02:44:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 184.96 Mbit/s

95th percentile per-packet one-way delay: 114.271 ms

Loss rate: 0.00%

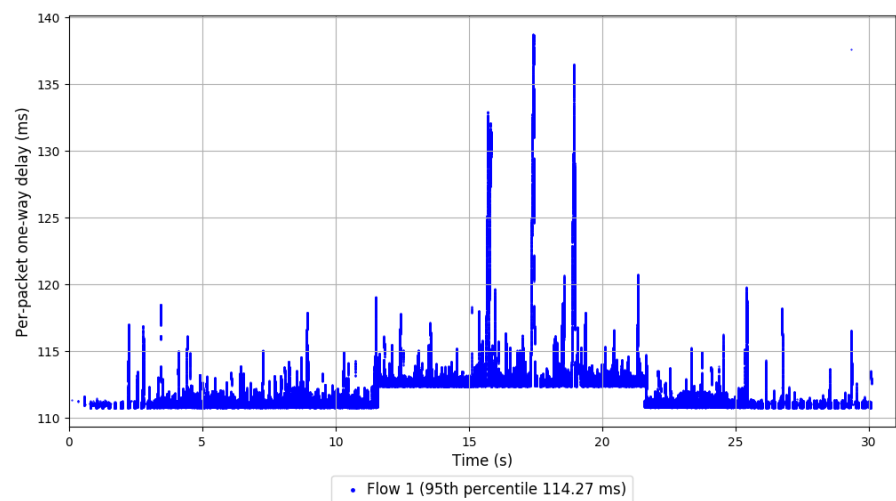
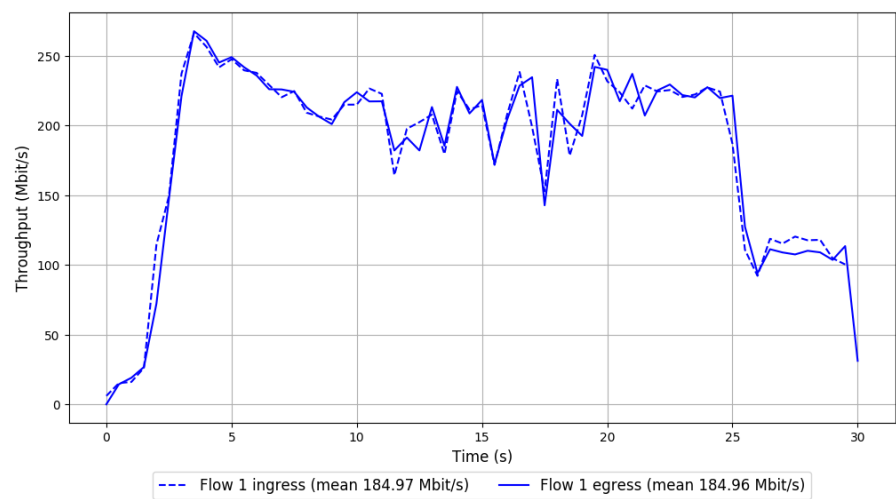
-- Flow 1:

Average throughput: 184.96 Mbit/s

95th percentile per-packet one-way delay: 114.271 ms

Loss rate: 0.00%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-03-13 00:11:12

End at: 2018-03-13 00:11:42

Below is generated by plot.py at 2018-03-13 02:44:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 181.72 Mbit/s

95th percentile per-packet one-way delay: 114.218 ms

Loss rate: 0.02%

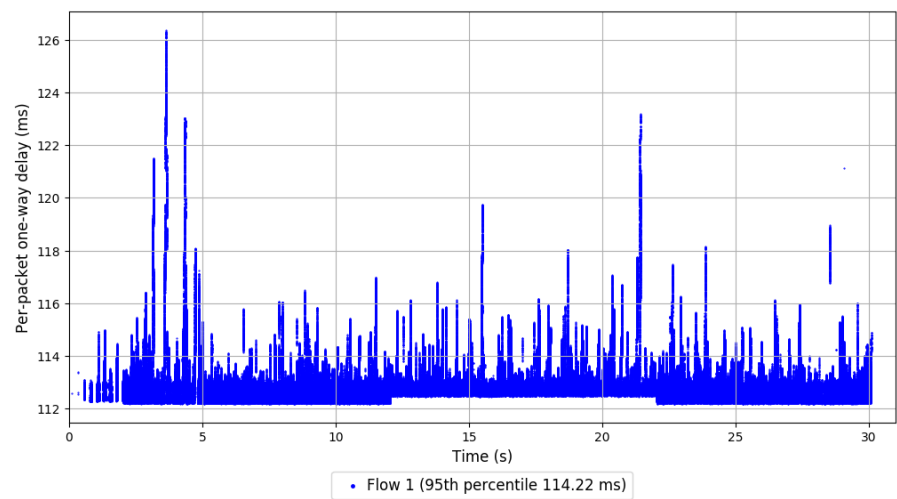
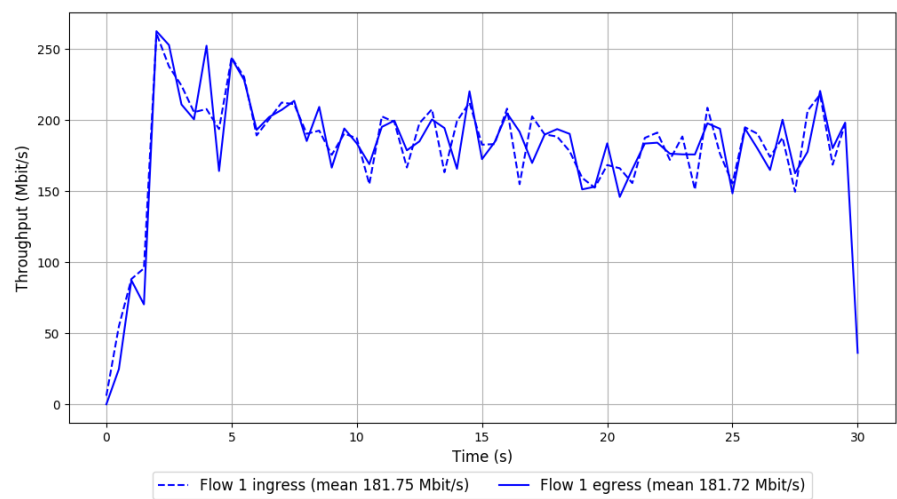
-- Flow 1:

Average throughput: 181.72 Mbit/s

95th percentile per-packet one-way delay: 114.218 ms

Loss rate: 0.02%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-03-13 00:26:40

End at: 2018-03-13 00:27:10

Below is generated by plot.py at 2018-03-13 02:44:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 117.65 Mbit/s

95th percentile per-packet one-way delay: 113.070 ms

Loss rate: 0.01%

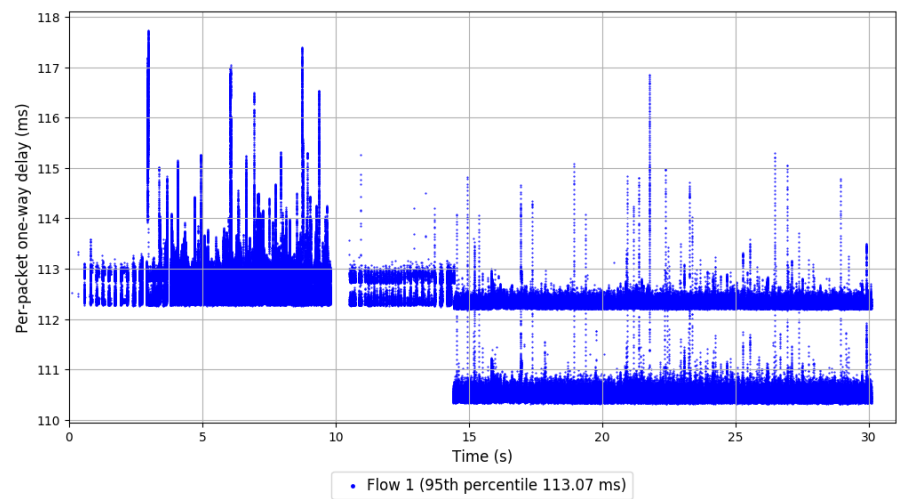
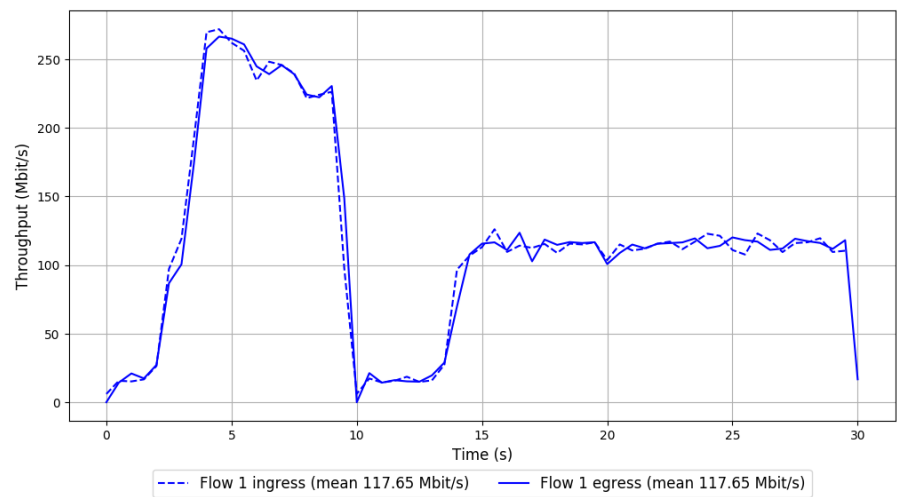
-- Flow 1:

Average throughput: 117.65 Mbit/s

95th percentile per-packet one-way delay: 113.070 ms

Loss rate: 0.01%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-03-13 00:41:49

End at: 2018-03-13 00:42:19

Below is generated by plot.py at 2018-03-13 02:44:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 16.10 Mbit/s

95th percentile per-packet one-way delay: 112.591 ms

Loss rate: 0.00%

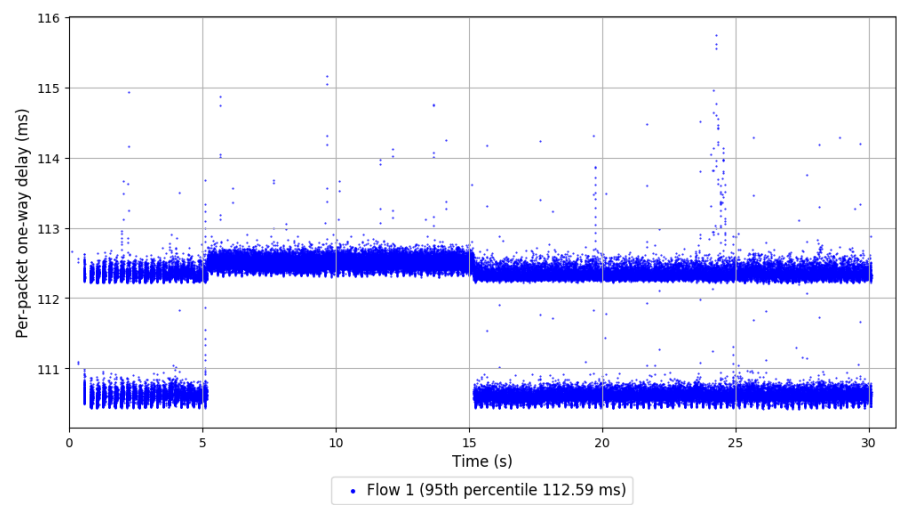
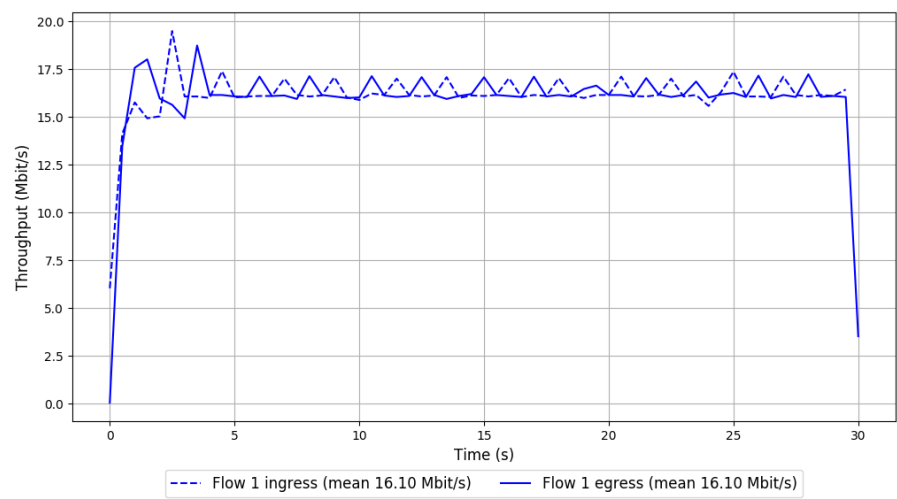
-- Flow 1:

Average throughput: 16.10 Mbit/s

95th percentile per-packet one-way delay: 112.591 ms

Loss rate: 0.00%

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

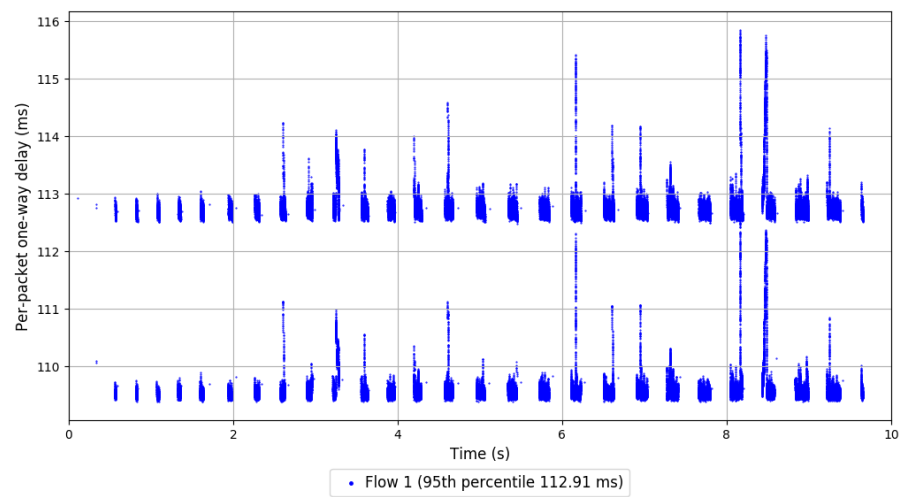
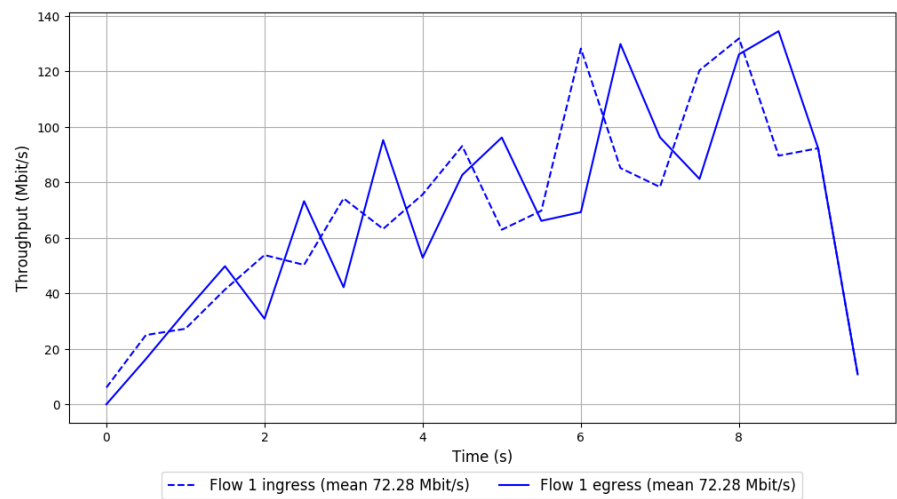


Run 10: Statistics of TaoVA-100x

Start at: 2018-03-13 00:57:03

End at: 2018-03-13 00:57:33

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



Run 1: Statistics of TCP Vegas

Start at: 2018-03-12 22:36:44

End at: 2018-03-12 22:37:14

Below is generated by plot.py at 2018-03-13 02:44:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 101.12 Mbit/s

95th percentile per-packet one-way delay: 123.669 ms

Loss rate: 0.16%

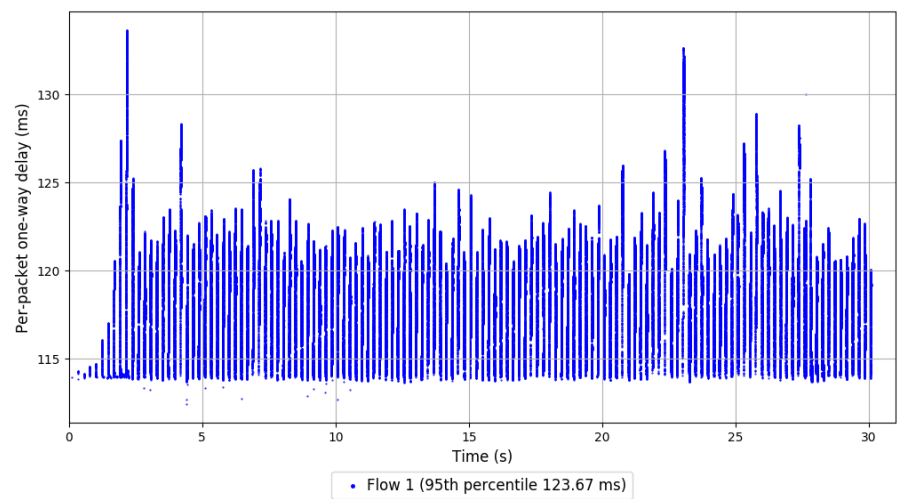
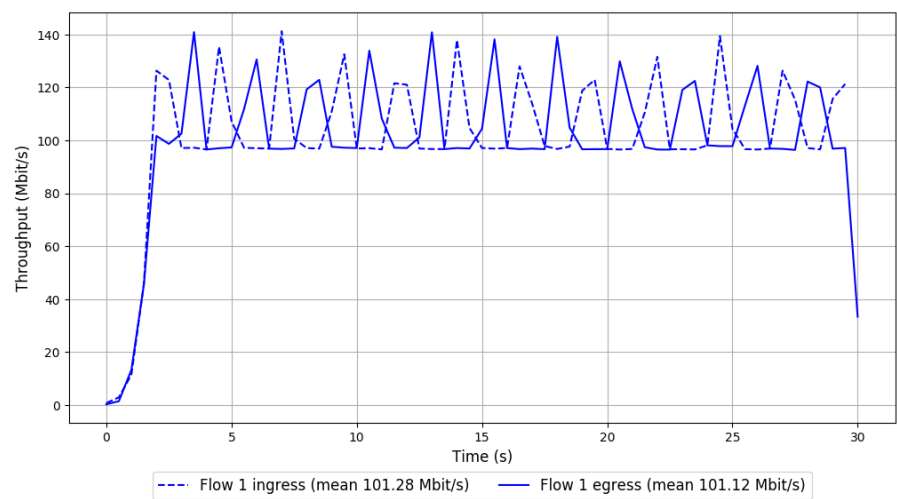
-- Flow 1:

Average throughput: 101.12 Mbit/s

95th percentile per-packet one-way delay: 123.669 ms

Loss rate: 0.16%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-03-12 22:52:04

End at: 2018-03-12 22:52:34

Below is generated by plot.py at 2018-03-13 02:44:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 99.01 Mbit/s

95th percentile per-packet one-way delay: 121.363 ms

Loss rate: 0.00%

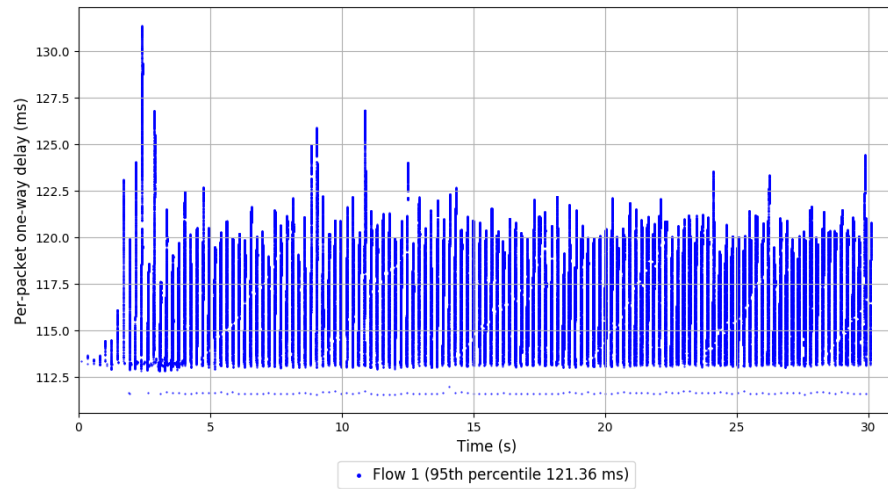
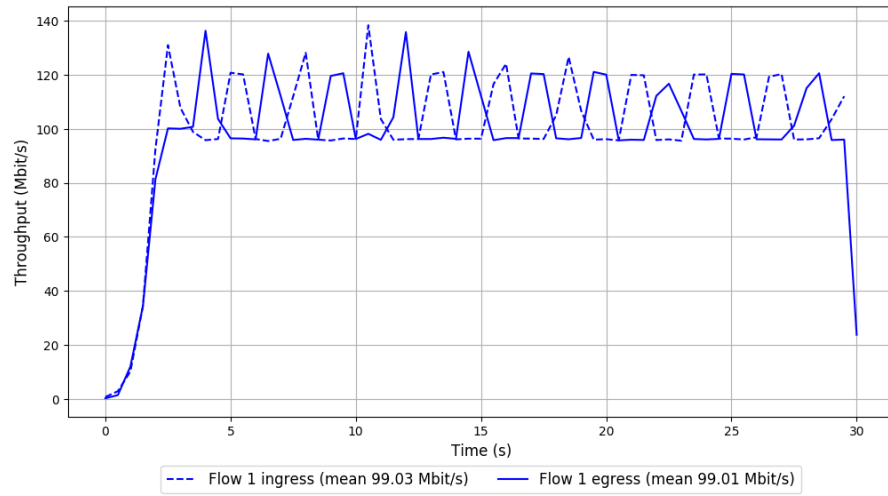
-- Flow 1:

Average throughput: 99.01 Mbit/s

95th percentile per-packet one-way delay: 121.363 ms

Loss rate: 0.00%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-03-12 23:07:12

End at: 2018-03-12 23:07:42

Below is generated by plot.py at 2018-03-13 02:44:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 40.84 Mbit/s

95th percentile per-packet one-way delay: 112.647 ms

Loss rate: 0.00%

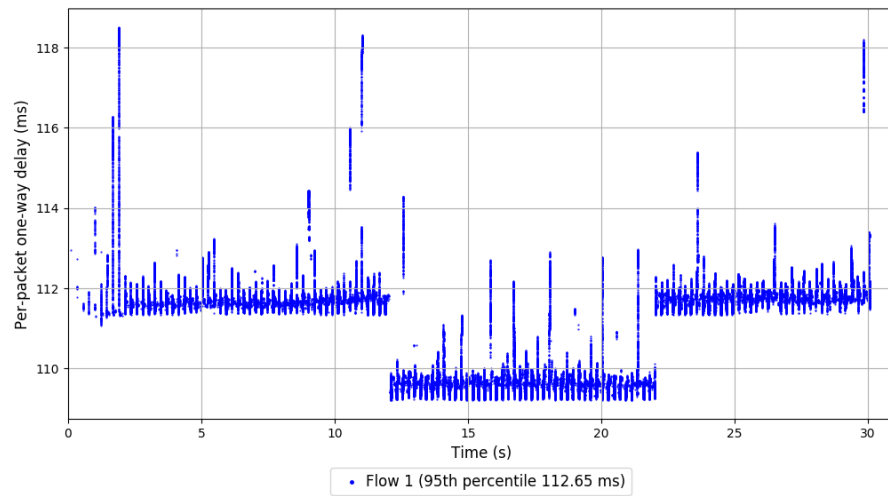
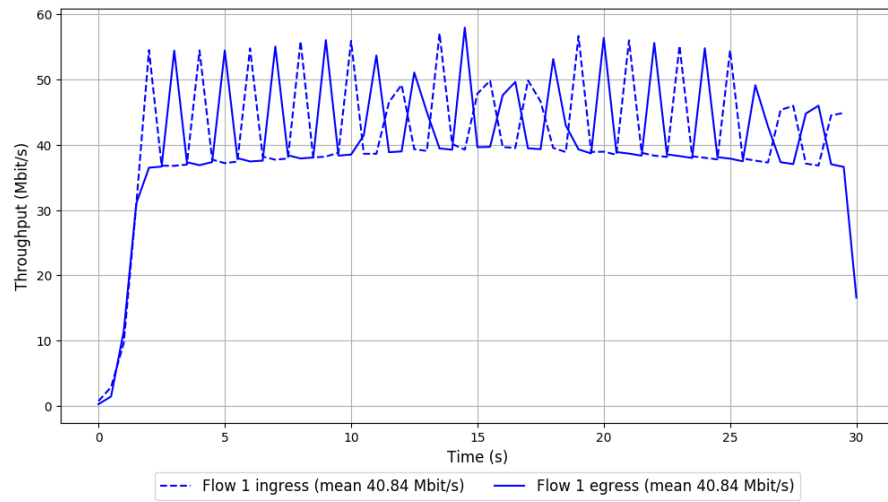
-- Flow 1:

Average throughput: 40.84 Mbit/s

95th percentile per-packet one-way delay: 112.647 ms

Loss rate: 0.00%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-03-12 23:22:25

End at: 2018-03-12 23:22:55

Below is generated by plot.py at 2018-03-13 02:44:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 102.35 Mbit/s

95th percentile per-packet one-way delay: 120.669 ms

Loss rate: 0.00%

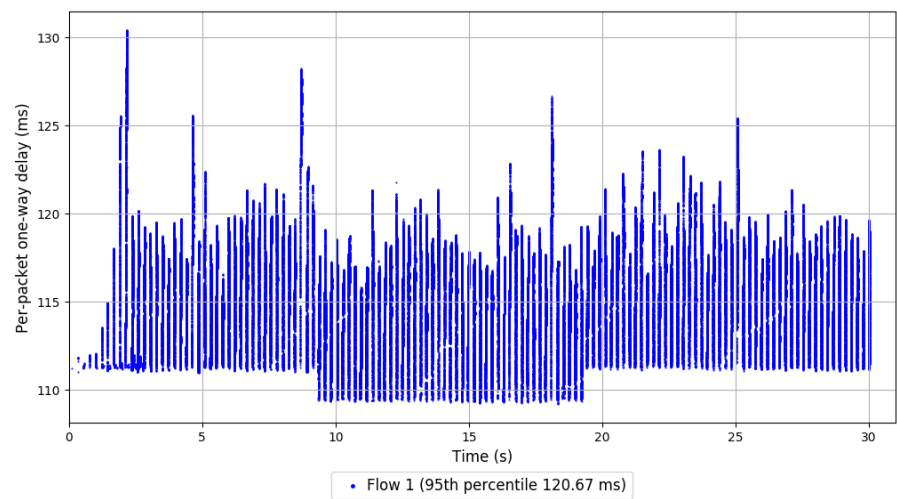
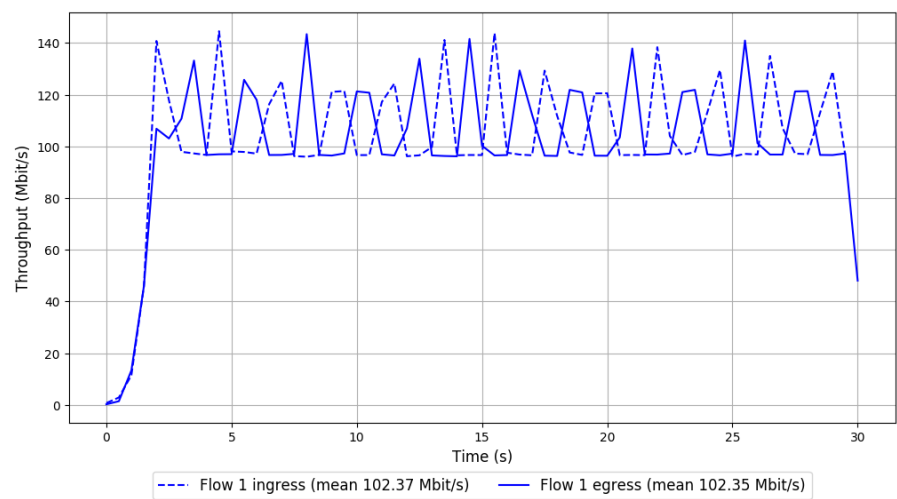
-- Flow 1:

Average throughput: 102.35 Mbit/s

95th percentile per-packet one-way delay: 120.669 ms

Loss rate: 0.00%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-03-12 23:37:38

End at: 2018-03-12 23:38:08

Below is generated by plot.py at 2018-03-13 02:44:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 102.45 Mbit/s

95th percentile per-packet one-way delay: 120.354 ms

Loss rate: 0.00%

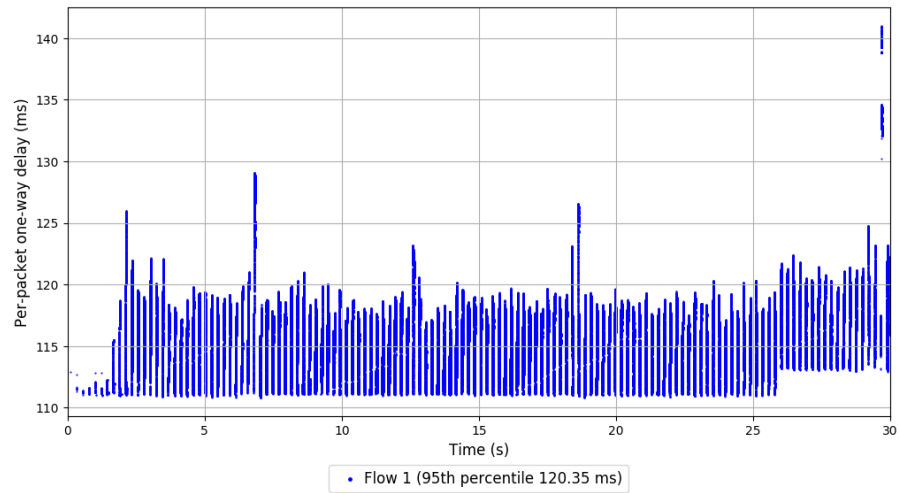
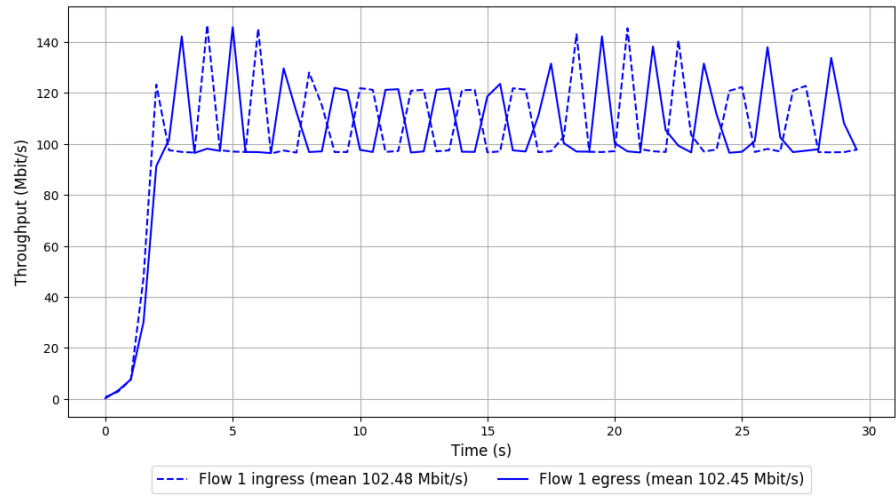
-- Flow 1:

Average throughput: 102.45 Mbit/s

95th percentile per-packet one-way delay: 120.354 ms

Loss rate: 0.00%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-03-12 23:52:42

End at: 2018-03-12 23:53:12

Below is generated by plot.py at 2018-03-13 02:44:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 53.64 Mbit/s

95th percentile per-packet one-way delay: 119.711 ms

Loss rate: 0.00%

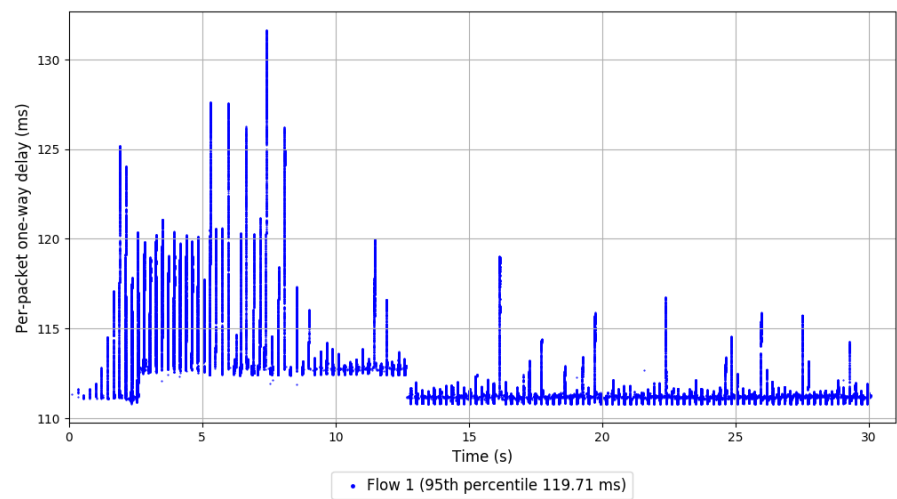
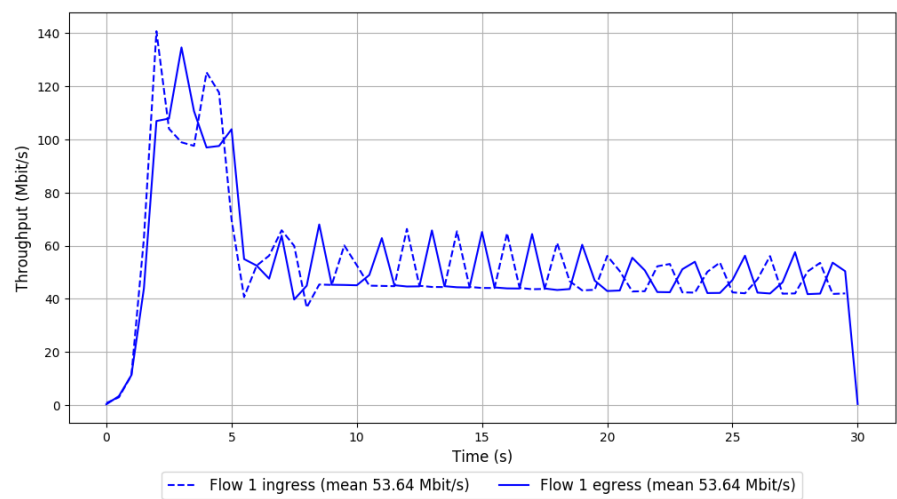
-- Flow 1:

Average throughput: 53.64 Mbit/s

95th percentile per-packet one-way delay: 119.711 ms

Loss rate: 0.00%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-03-13 00:08:06

End at: 2018-03-13 00:08:36

Below is generated by plot.py at 2018-03-13 02:44:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 21.02 Mbit/s

95th percentile per-packet one-way delay: 114.573 ms

Loss rate: 0.00%

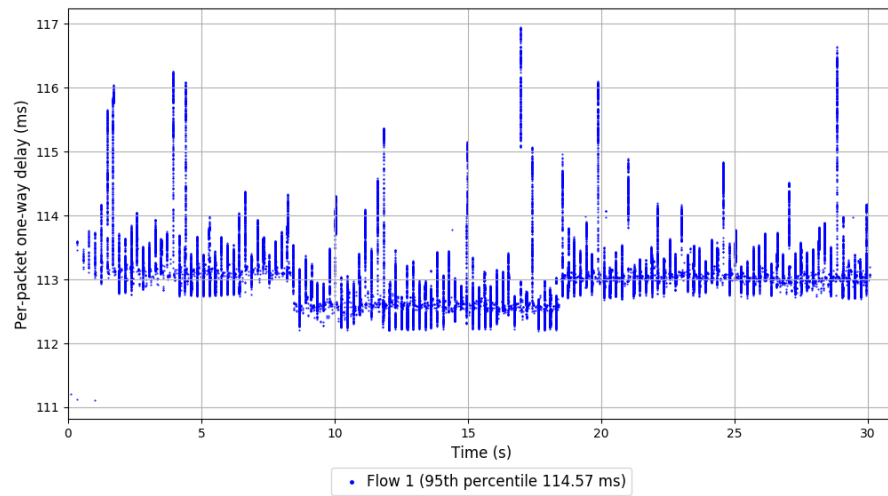
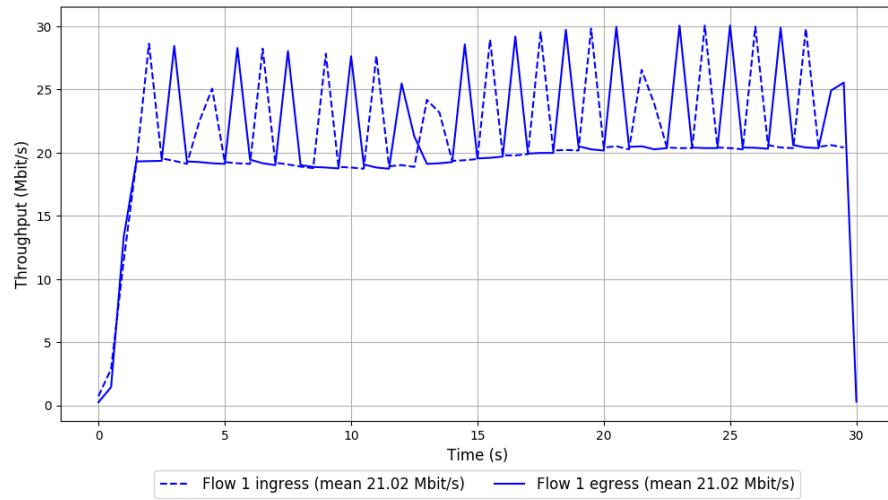
-- Flow 1:

Average throughput: 21.02 Mbit/s

95th percentile per-packet one-way delay: 114.573 ms

Loss rate: 0.00%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-03-13 00:23:24

End at: 2018-03-13 00:23:54

Below is generated by plot.py at 2018-03-13 02:44:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.58 Mbit/s

95th percentile per-packet one-way delay: 122.750 ms

Loss rate: 0.00%

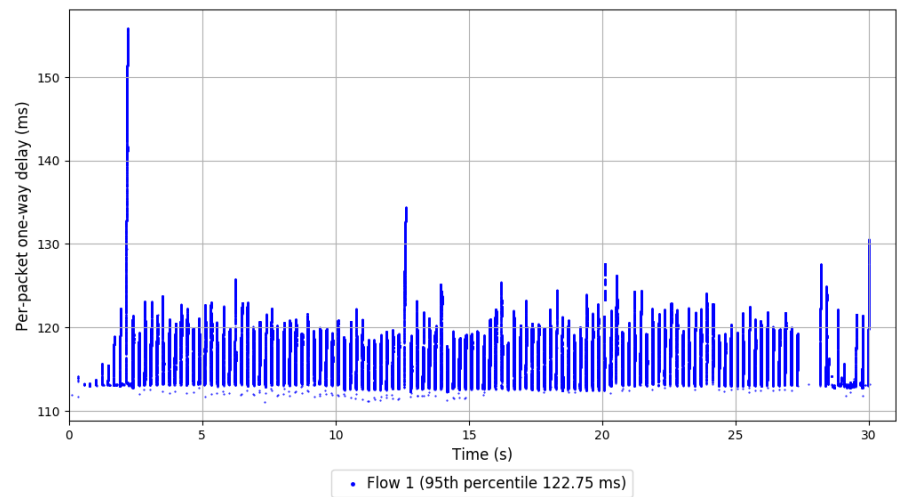
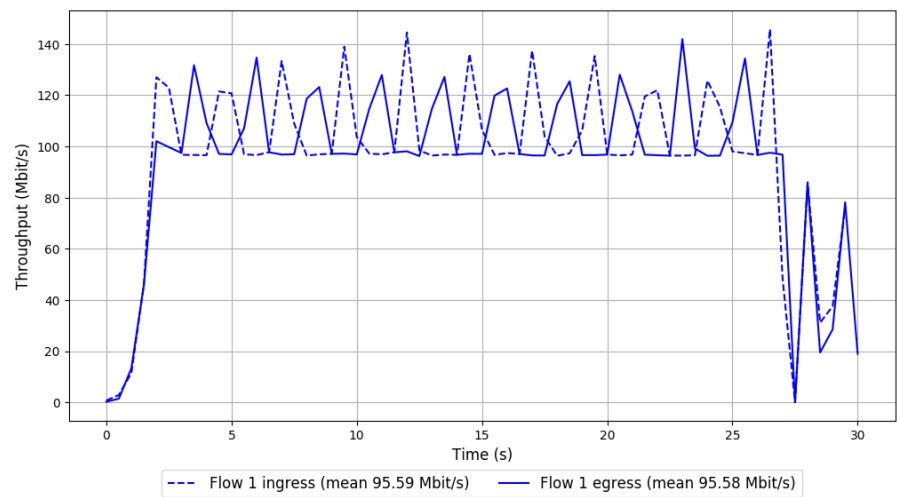
-- Flow 1:

Average throughput: 95.58 Mbit/s

95th percentile per-packet one-way delay: 122.750 ms

Loss rate: 0.00%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-03-13 00:38:36

End at: 2018-03-13 00:39:06

Below is generated by plot.py at 2018-03-13 02:44:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 40.57 Mbit/s

95th percentile per-packet one-way delay: 114.017 ms

Loss rate: 0.00%

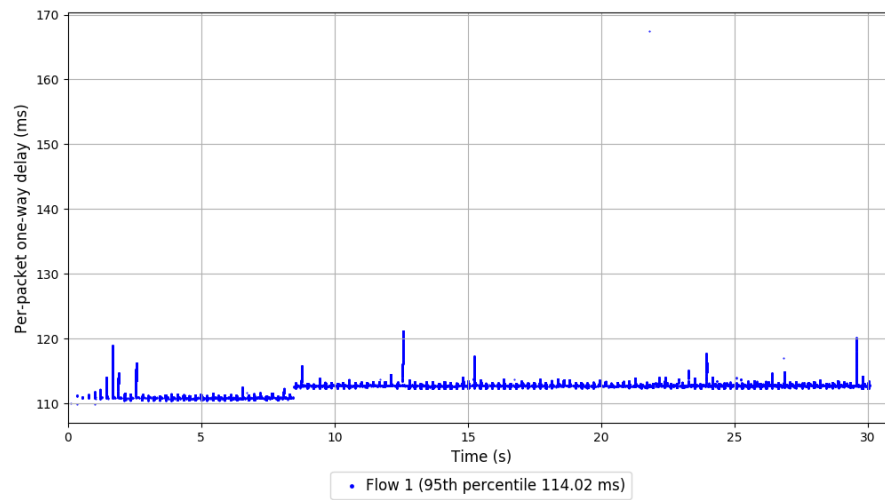
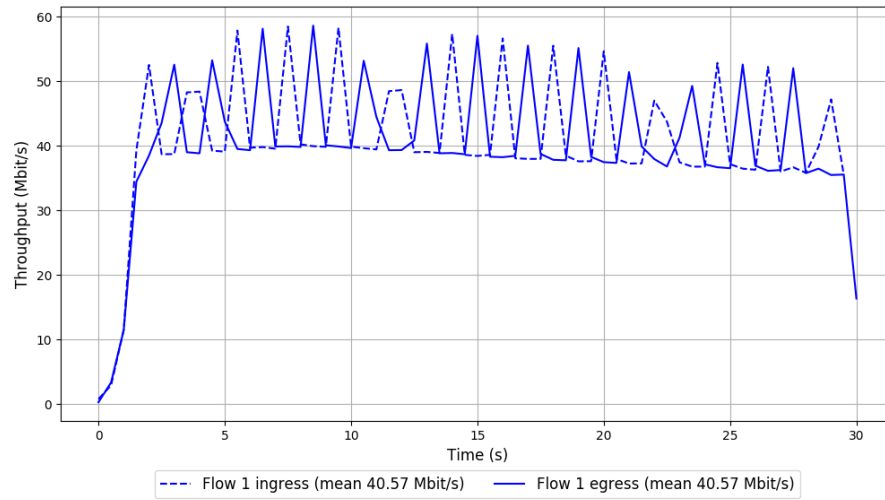
-- Flow 1:

Average throughput: 40.57 Mbit/s

95th percentile per-packet one-way delay: 114.017 ms

Loss rate: 0.00%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-03-13 00:53:47

End at: 2018-03-13 00:54:17

Below is generated by plot.py at 2018-03-13 02:44:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 53.00 Mbit/s

95th percentile per-packet one-way delay: 119.808 ms

Loss rate: 0.00%

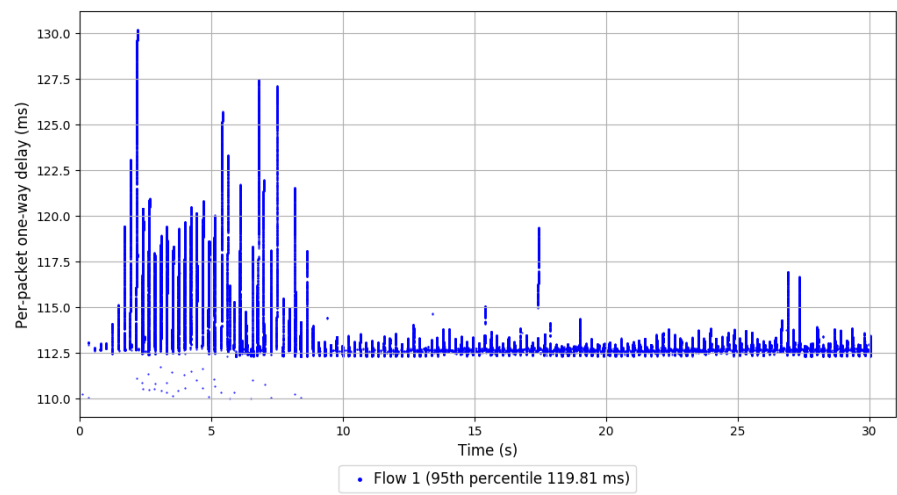
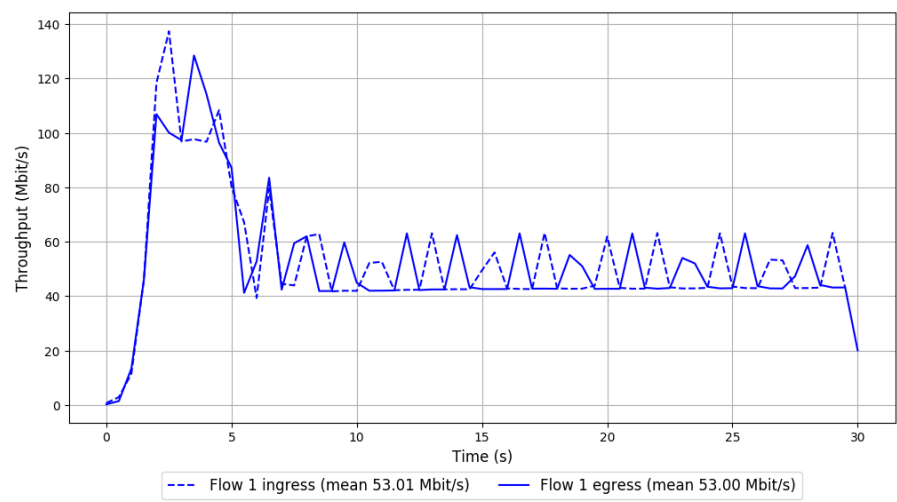
-- Flow 1:

Average throughput: 53.00 Mbit/s

95th percentile per-packet one-way delay: 119.808 ms

Loss rate: 0.00%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-03-12 22:37:30

End at: 2018-03-12 22:38:00

Below is generated by plot.py at 2018-03-13 02:46:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 205.90 Mbit/s

95th percentile per-packet one-way delay: 341.455 ms

Loss rate: 14.72%

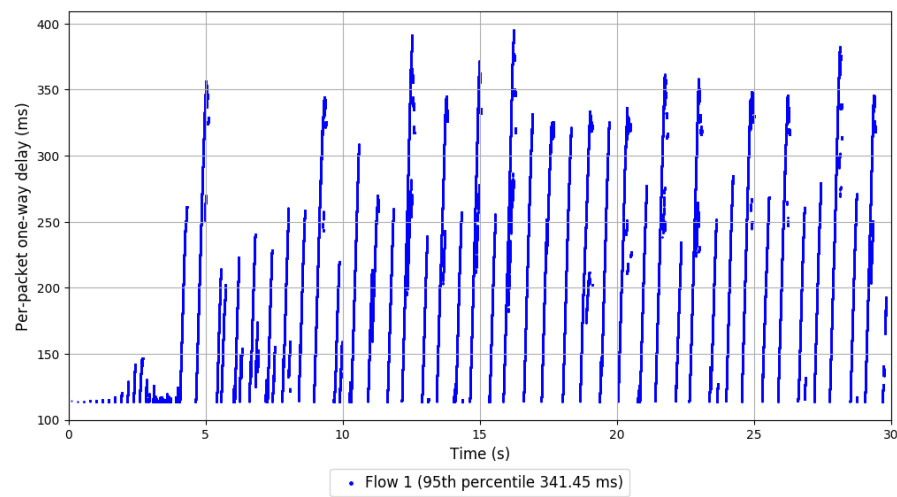
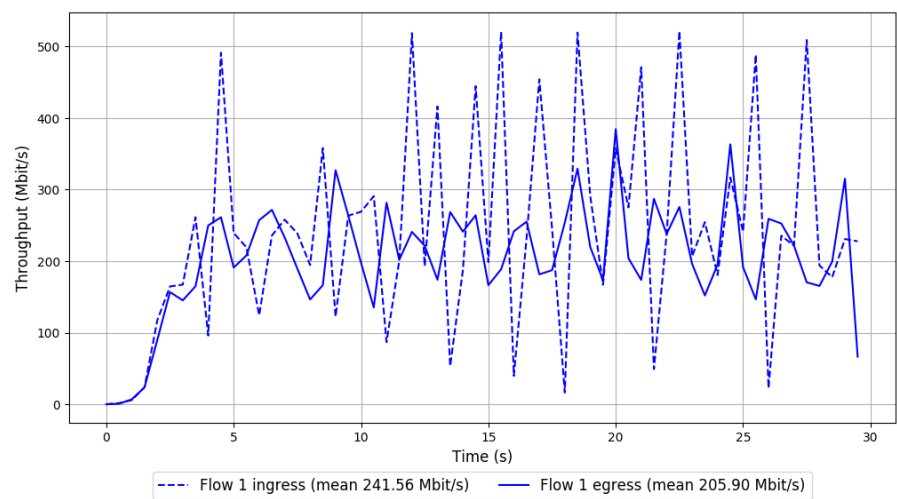
-- Flow 1:

Average throughput: 205.90 Mbit/s

95th percentile per-packet one-way delay: 341.455 ms

Loss rate: 14.72%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-03-12 22:52:50

End at: 2018-03-12 22:53:20

Below is generated by plot.py at 2018-03-13 02:46:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 224.59 Mbit/s

95th percentile per-packet one-way delay: 180.682 ms

Loss rate: 0.17%

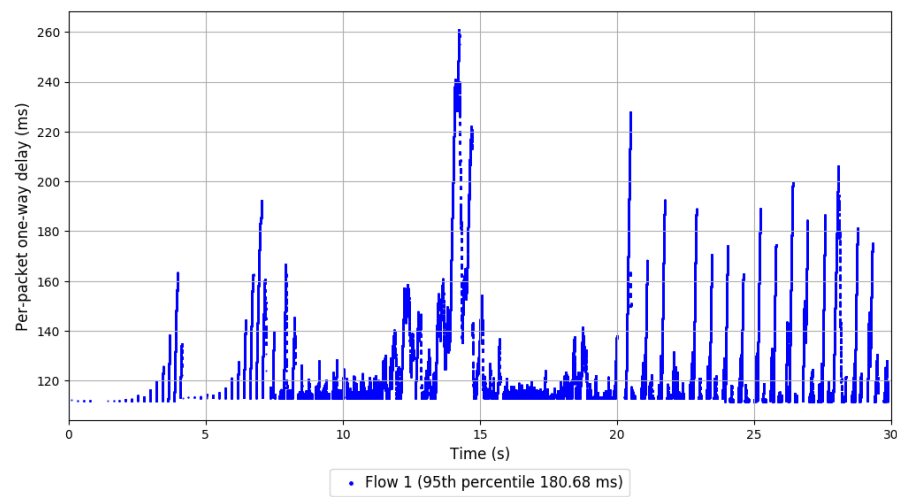
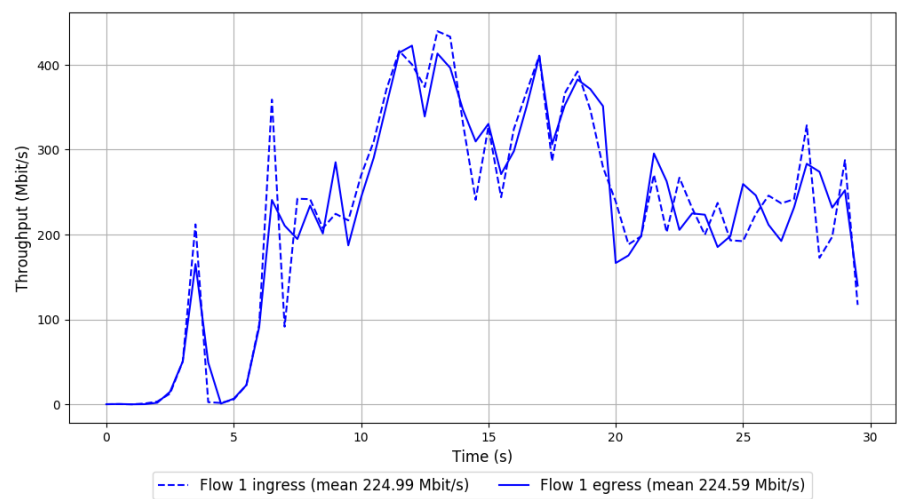
-- Flow 1:

Average throughput: 224.59 Mbit/s

95th percentile per-packet one-way delay: 180.682 ms

Loss rate: 0.17%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-03-12 23:07:56

End at: 2018-03-12 23:08:26

Below is generated by plot.py at 2018-03-13 02:46:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 198.04 Mbit/s

95th percentile per-packet one-way delay: 142.356 ms

Loss rate: 0.00%

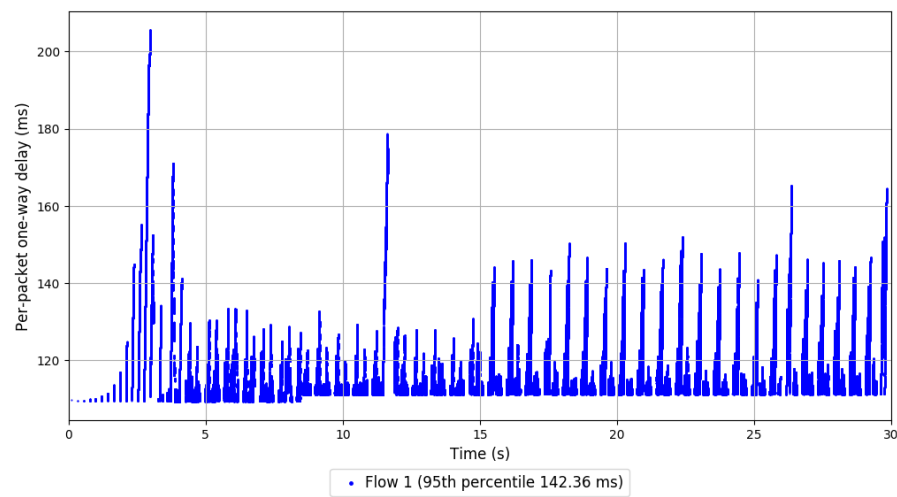
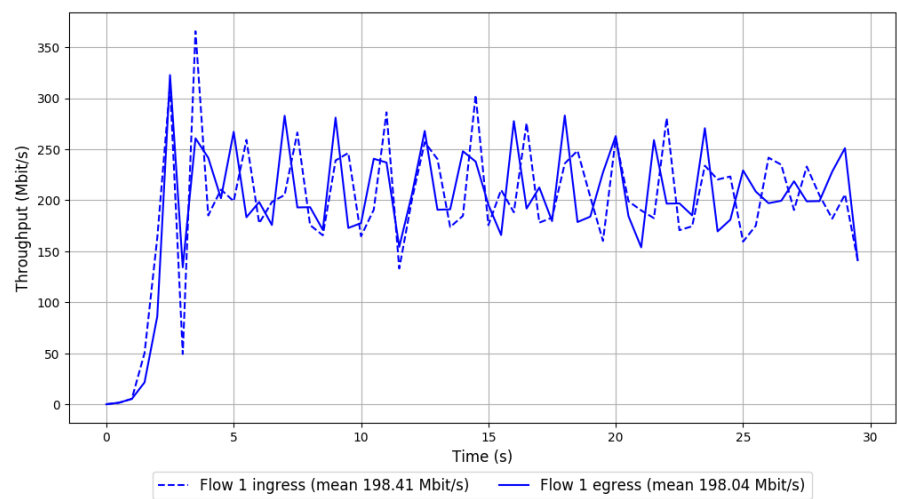
-- Flow 1:

Average throughput: 198.04 Mbit/s

95th percentile per-packet one-way delay: 142.356 ms

Loss rate: 0.00%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-03-12 23:23:12

End at: 2018-03-12 23:23:42

Below is generated by plot.py at 2018-03-13 02:46:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 169.58 Mbit/s

95th percentile per-packet one-way delay: 168.314 ms

Loss rate: 0.23%

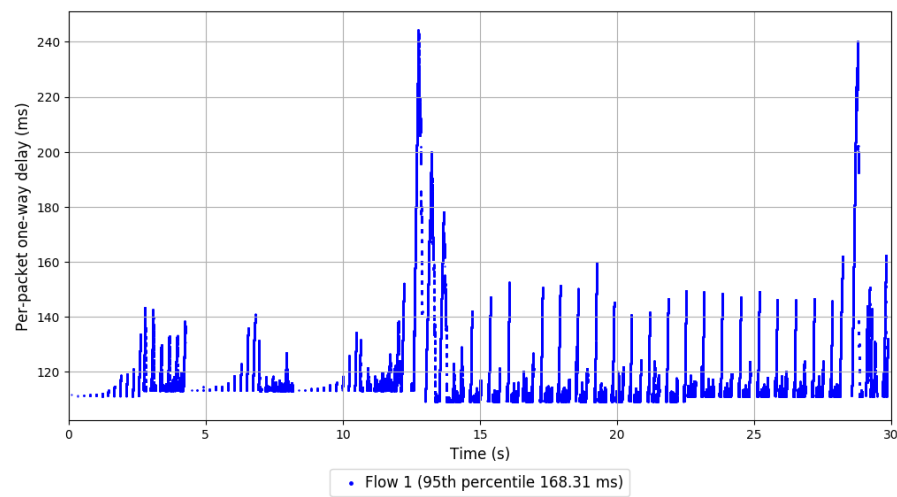
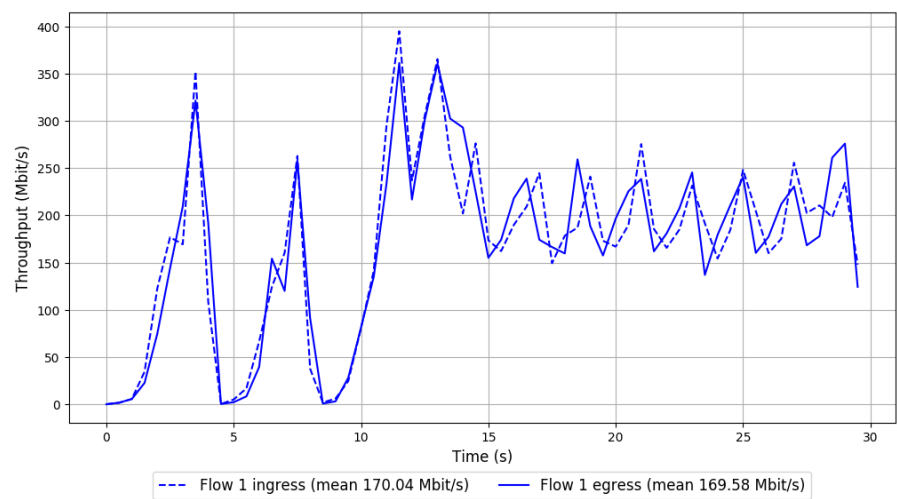
-- Flow 1:

Average throughput: 169.58 Mbit/s

95th percentile per-packet one-way delay: 168.314 ms

Loss rate: 0.23%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-03-12 23:38:25

End at: 2018-03-12 23:38:55

Below is generated by plot.py at 2018-03-13 02:46:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 100.63 Mbit/s

95th percentile per-packet one-way delay: 171.663 ms

Loss rate: 0.85%

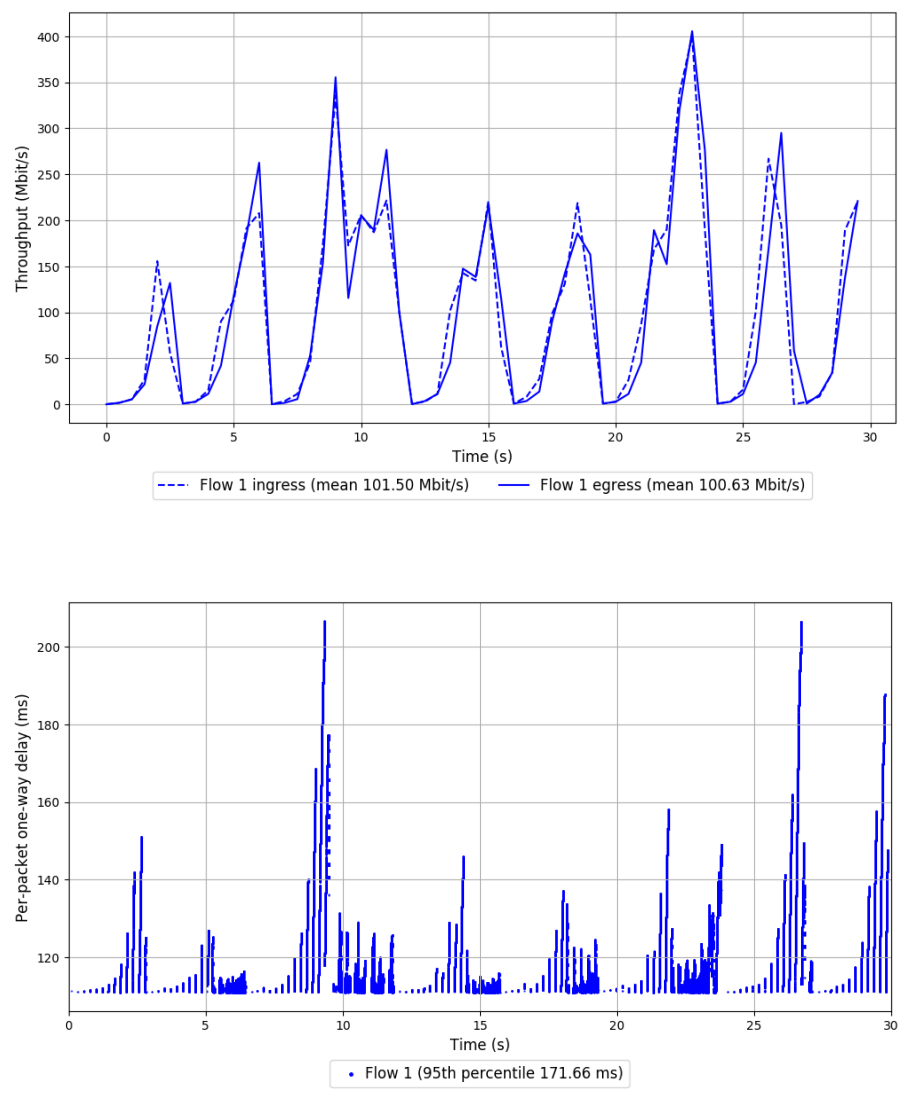
-- Flow 1:

Average throughput: 100.63 Mbit/s

95th percentile per-packet one-way delay: 171.663 ms

Loss rate: 0.85%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-03-12 23:53:26

End at: 2018-03-12 23:53:56

Below is generated by plot.py at 2018-03-13 02:46:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 117.53 Mbit/s

95th percentile per-packet one-way delay: 191.947 ms

Loss rate: 0.00%

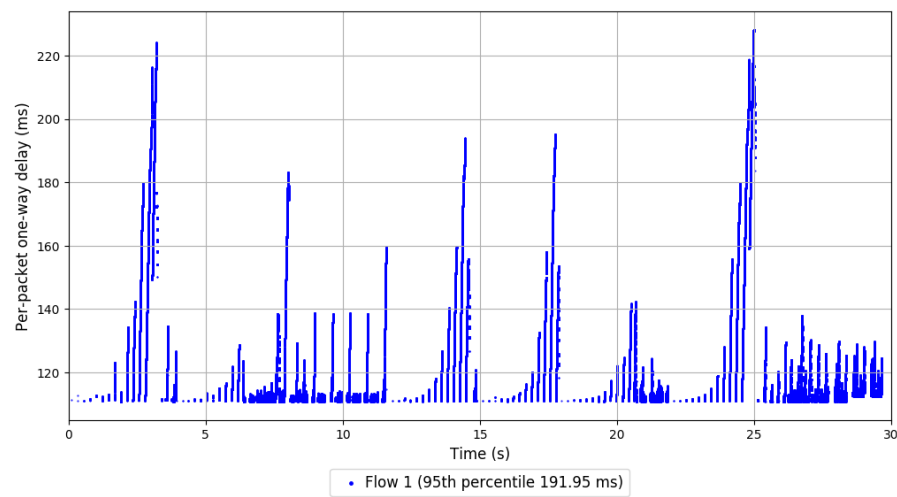
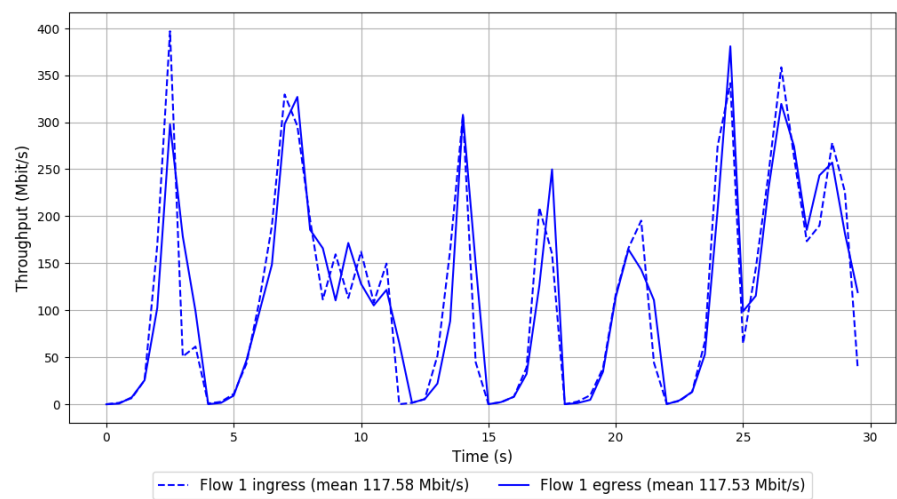
-- Flow 1:

Average throughput: 117.53 Mbit/s

95th percentile per-packet one-way delay: 191.947 ms

Loss rate: 0.00%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-03-13 00:08:48

End at: 2018-03-13 00:09:18

Below is generated by plot.py at 2018-03-13 02:46:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.08 Mbit/s

95th percentile per-packet one-way delay: 239.377 ms

Loss rate: 0.00%

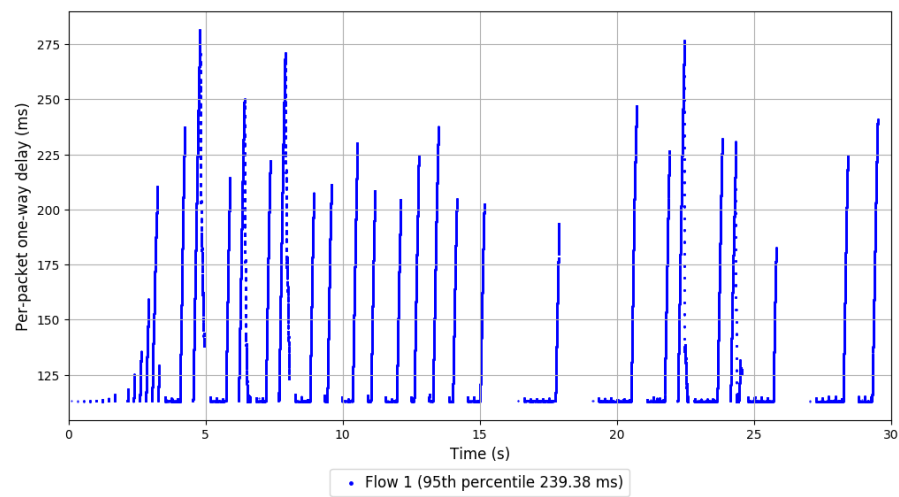
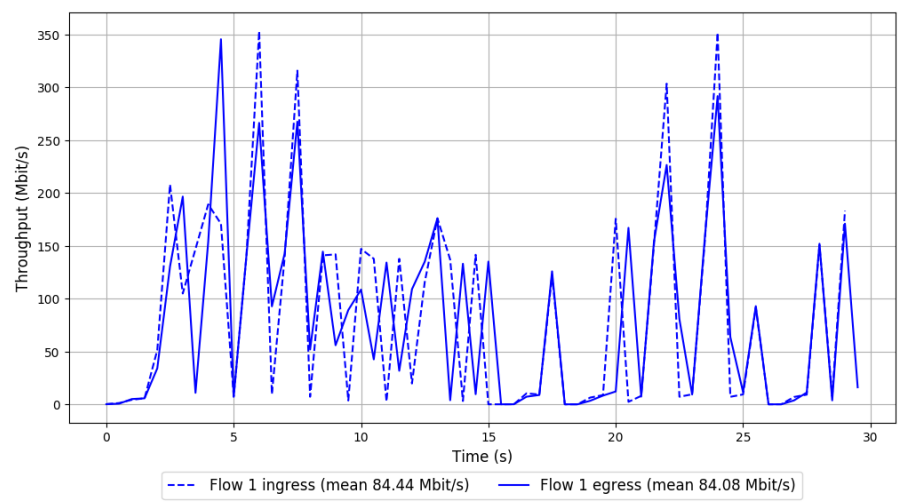
-- Flow 1:

Average throughput: 84.08 Mbit/s

95th percentile per-packet one-way delay: 239.377 ms

Loss rate: 0.00%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-03-13 00:24:10

End at: 2018-03-13 00:24:40

Below is generated by plot.py at 2018-03-13 02:47:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 161.29 Mbit/s

95th percentile per-packet one-way delay: 161.605 ms

Loss rate: 0.00%

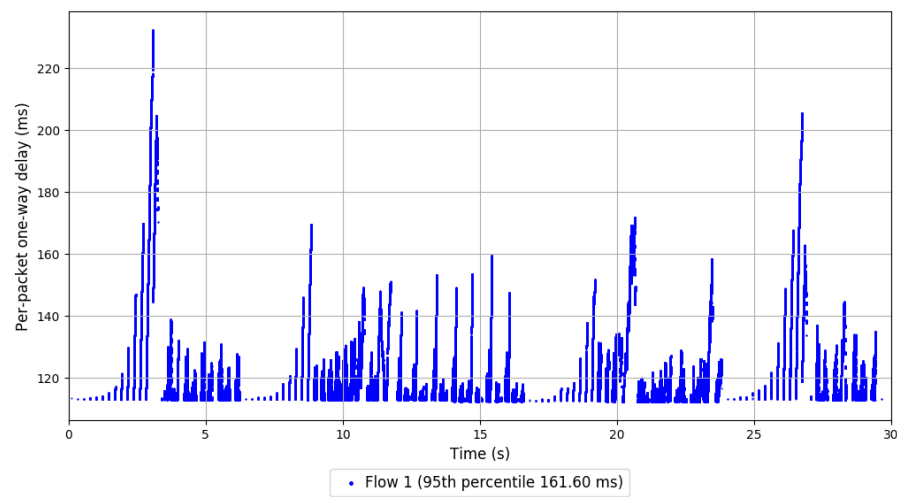
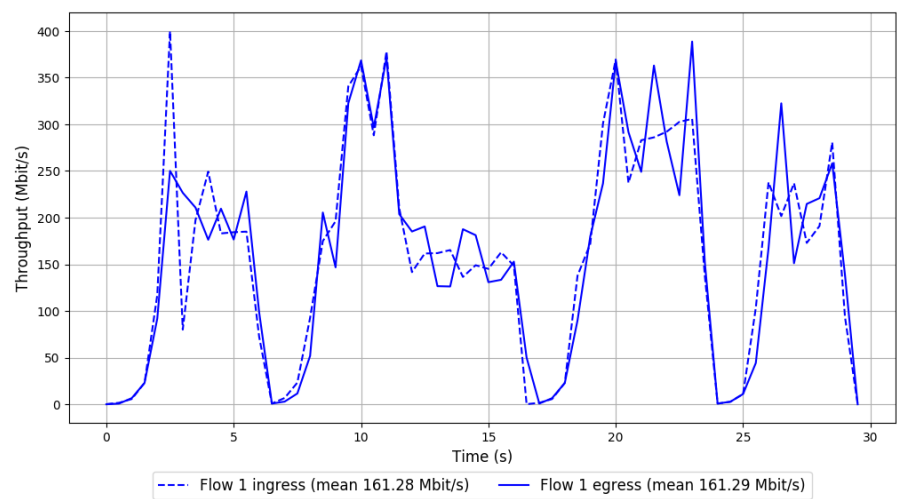
-- Flow 1:

Average throughput: 161.29 Mbit/s

95th percentile per-packet one-way delay: 161.605 ms

Loss rate: 0.00%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-03-13 00:39:19

End at: 2018-03-13 00:39:49

Below is generated by plot.py at 2018-03-13 02:48:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 160.32 Mbit/s

95th percentile per-packet one-way delay: 154.807 ms

Loss rate: 0.00%

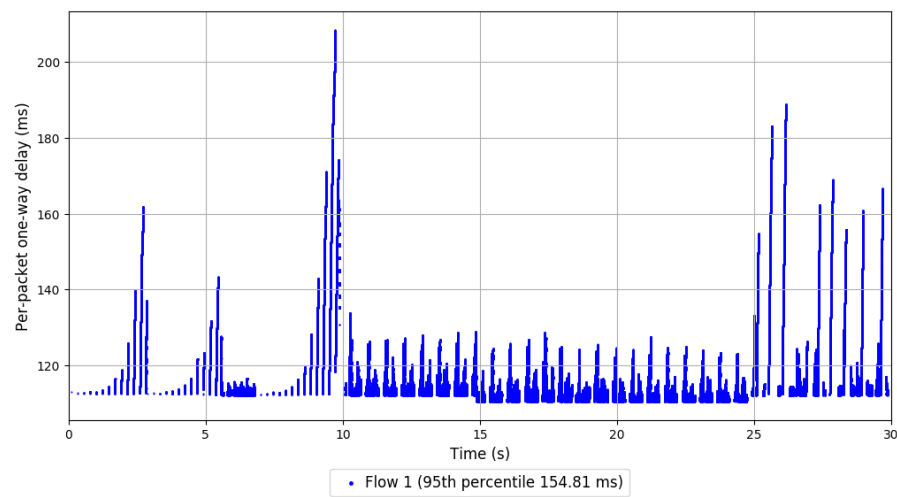
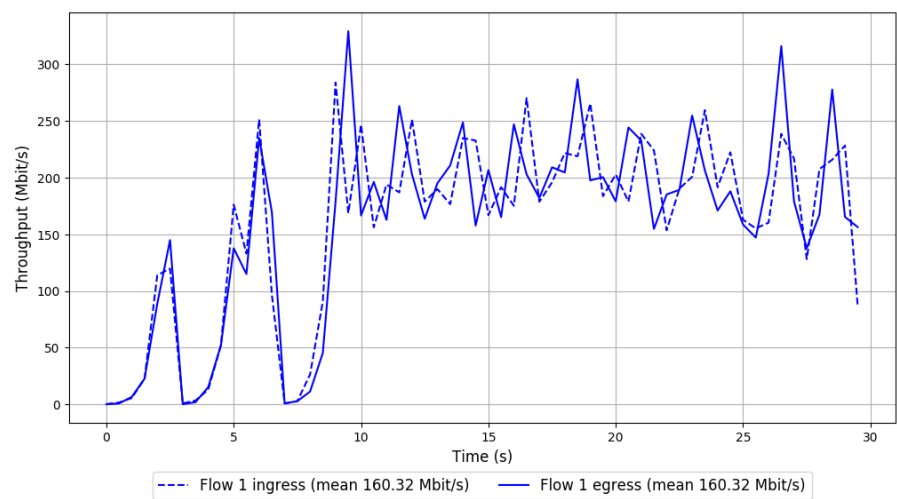
-- Flow 1:

Average throughput: 160.32 Mbit/s

95th percentile per-packet one-way delay: 154.807 ms

Loss rate: 0.00%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-03-13 00:54:31

End at: 2018-03-13 00:55:01

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 188.36 Mbit/s

95th percentile per-packet one-way delay: 216.647 ms

Loss rate: 1.85%

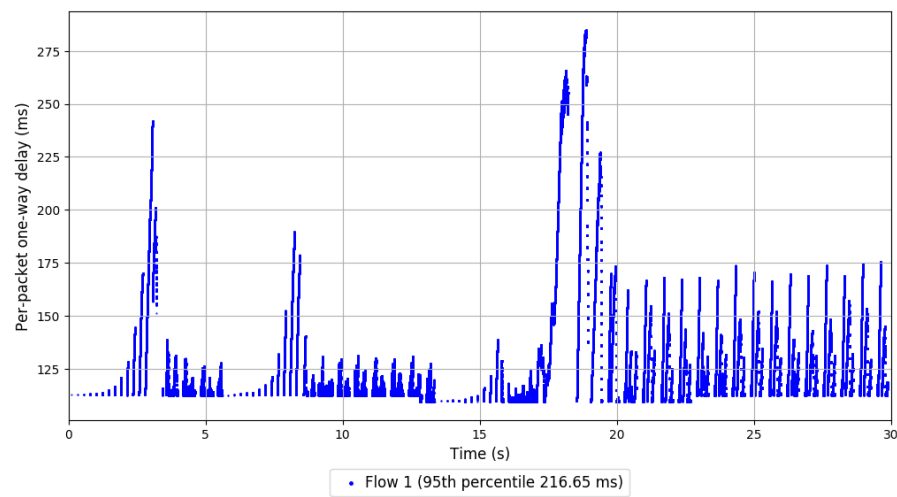
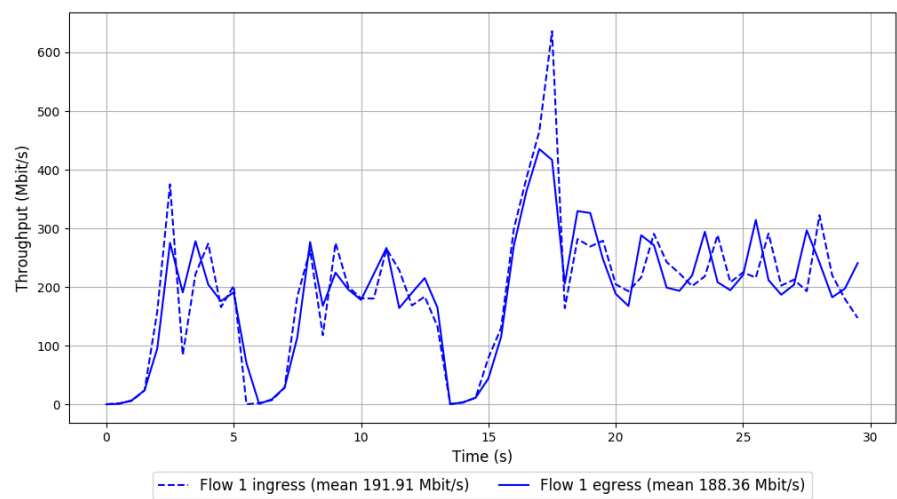
-- Flow 1:

Average throughput: 188.36 Mbit/s

95th percentile per-packet one-way delay: 216.647 ms

Loss rate: 1.85%

Run 10: Report of Verus — Data Link

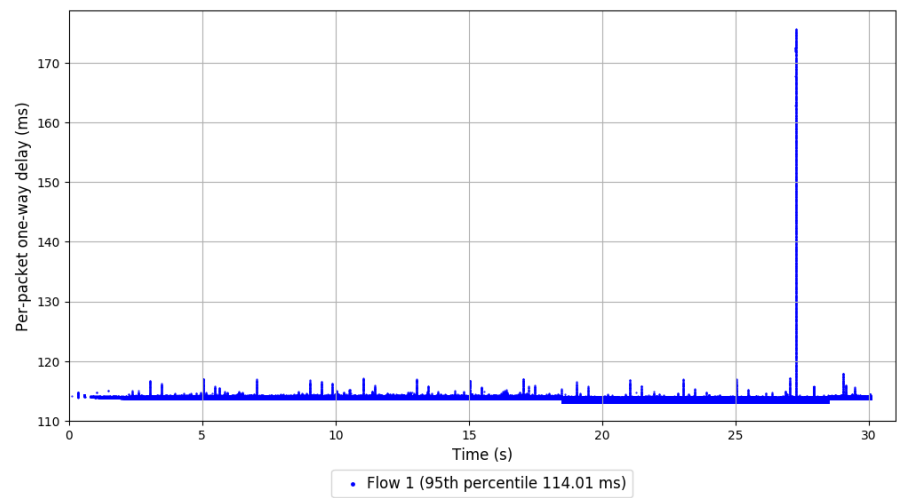
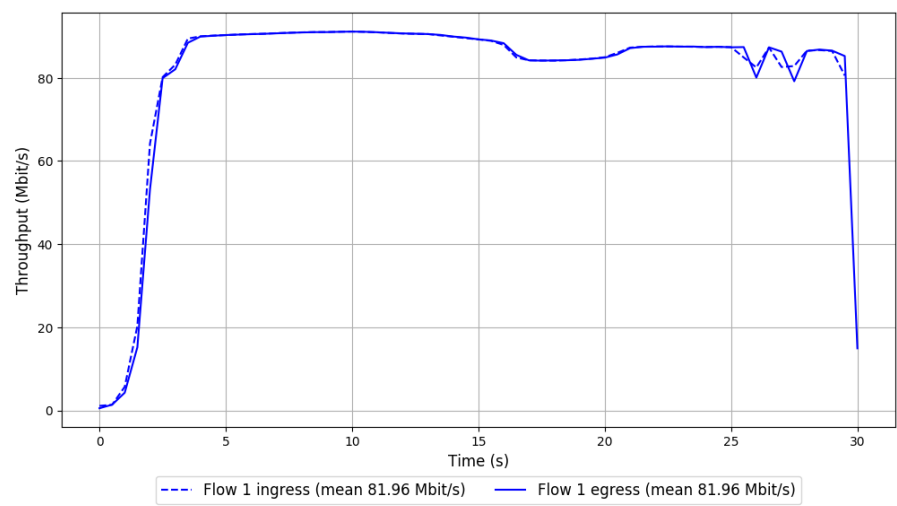


```
Run 1: Statistics of Copa

Start at: 2018-03-12 22:41:26
End at: 2018-03-12 22:41:56

# Below is generated by plot.py at 2018-03-13 02:49:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 81.96 Mbit/s
95th percentile per-packet one-way delay: 114.012 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 81.96 Mbit/s
95th percentile per-packet one-way delay: 114.012 ms
Loss rate: 0.00%
```

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-03-12 22:56:51

End at: 2018-03-12 22:57:21

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 80.08 Mbit/s

95th percentile per-packet one-way delay: 112.840 ms

Loss rate: 0.00%

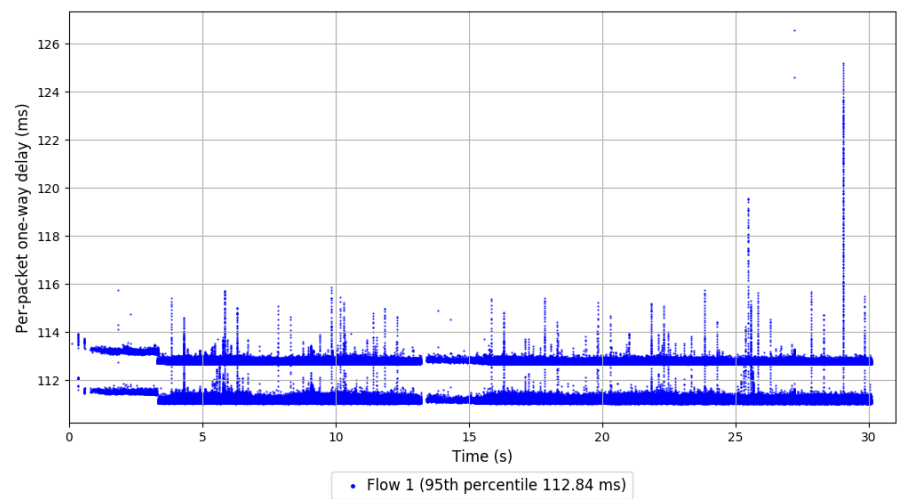
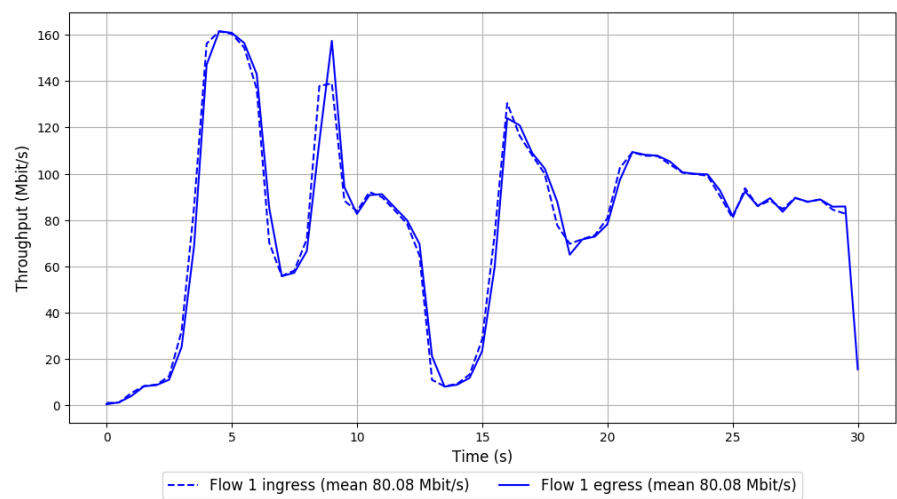
-- Flow 1:

Average throughput: 80.08 Mbit/s

95th percentile per-packet one-way delay: 112.840 ms

Loss rate: 0.00%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-03-12 23:11:52

End at: 2018-03-12 23:12:22

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.79 Mbit/s

95th percentile per-packet one-way delay: 111.367 ms

Loss rate: 0.00%

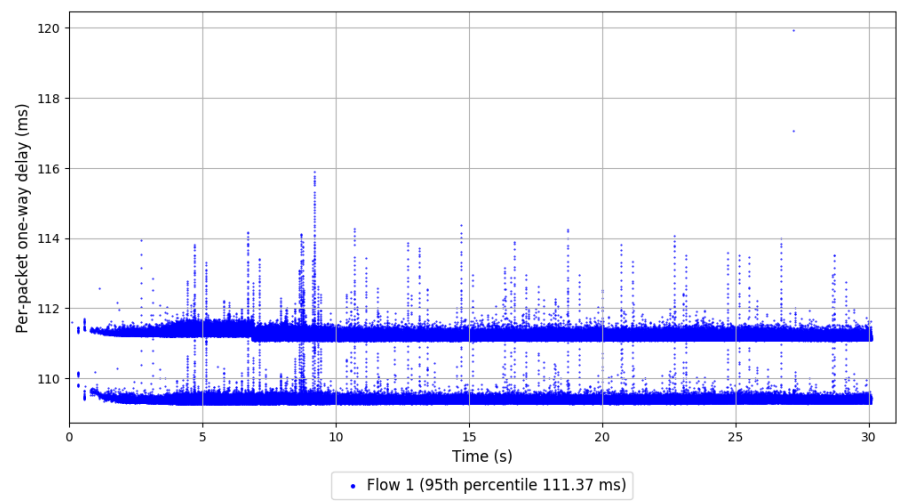
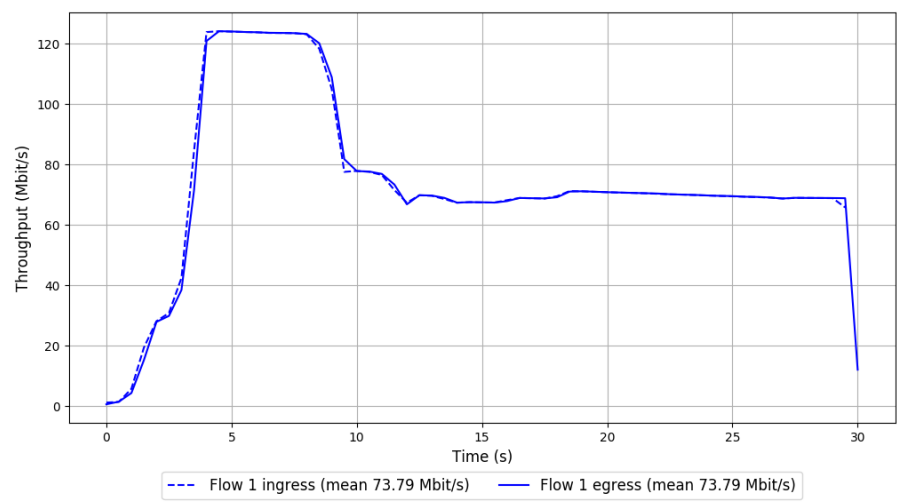
-- Flow 1:

Average throughput: 73.79 Mbit/s

95th percentile per-packet one-way delay: 111.367 ms

Loss rate: 0.00%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-03-12 23:27:05

End at: 2018-03-12 23:27:35

Below is generated by plot.py at 2018-03-13 02:51:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 174.14 Mbit/s

95th percentile per-packet one-way delay: 300.865 ms

Loss rate: 30.21%

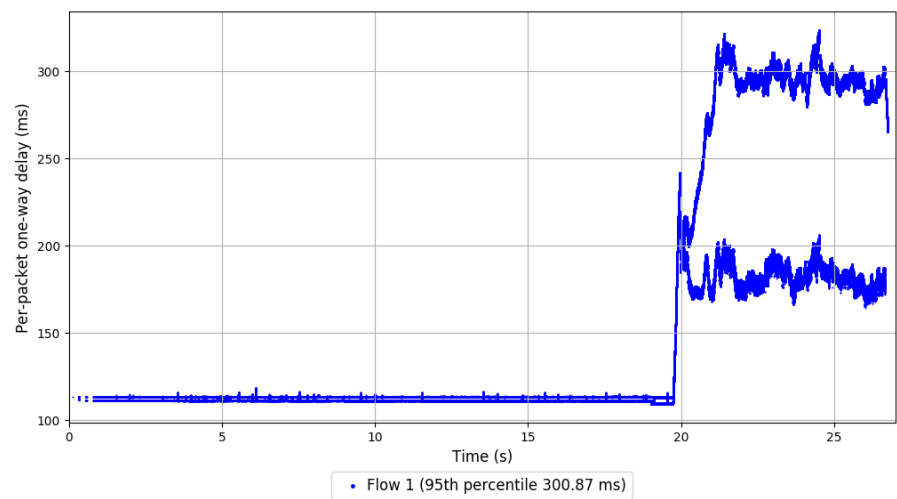
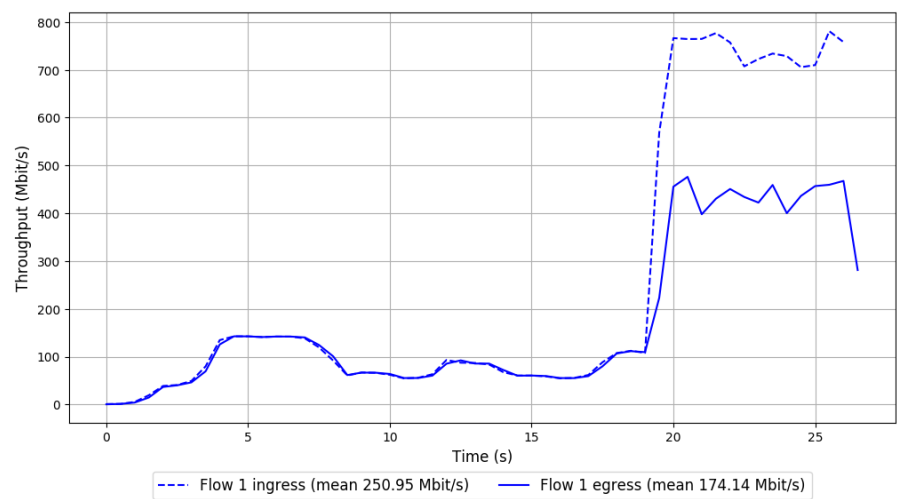
-- Flow 1:

Average throughput: 174.14 Mbit/s

95th percentile per-packet one-way delay: 300.865 ms

Loss rate: 30.21%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-03-12 23:42:15

End at: 2018-03-12 23:42:45

Below is generated by plot.py at 2018-03-13 02:51:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.53 Mbit/s

95th percentile per-packet one-way delay: 113.034 ms

Loss rate: 0.00%

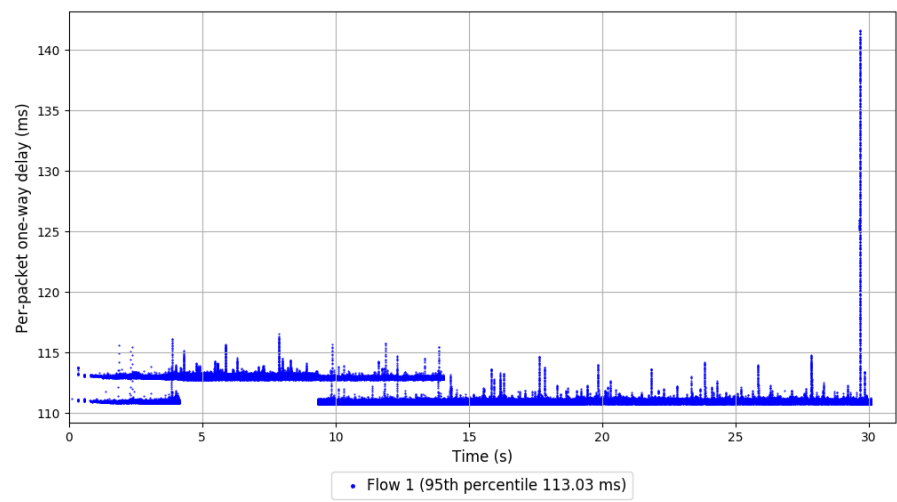
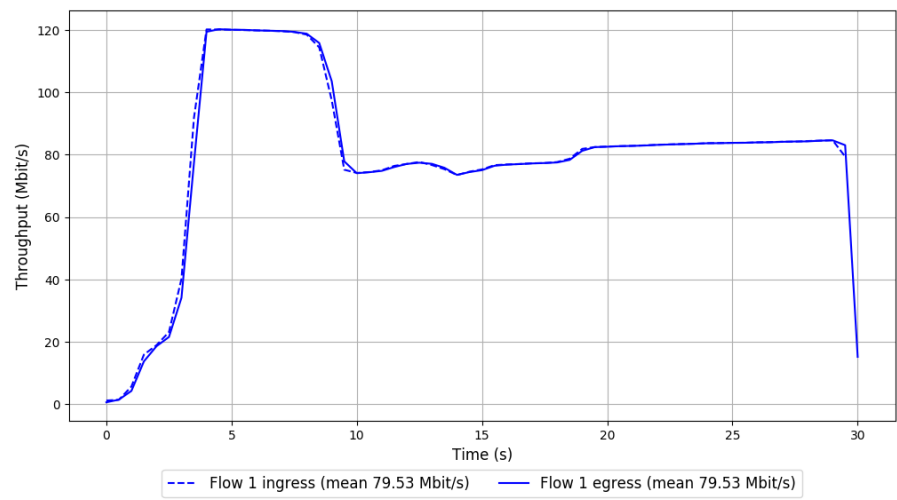
-- Flow 1:

Average throughput: 79.53 Mbit/s

95th percentile per-packet one-way delay: 113.034 ms

Loss rate: 0.00%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-03-12 23:57:31

End at: 2018-03-12 23:58:02

Below is generated by plot.py at 2018-03-13 02:51:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.89 Mbit/s

95th percentile per-packet one-way delay: 110.848 ms

Loss rate: 0.00%

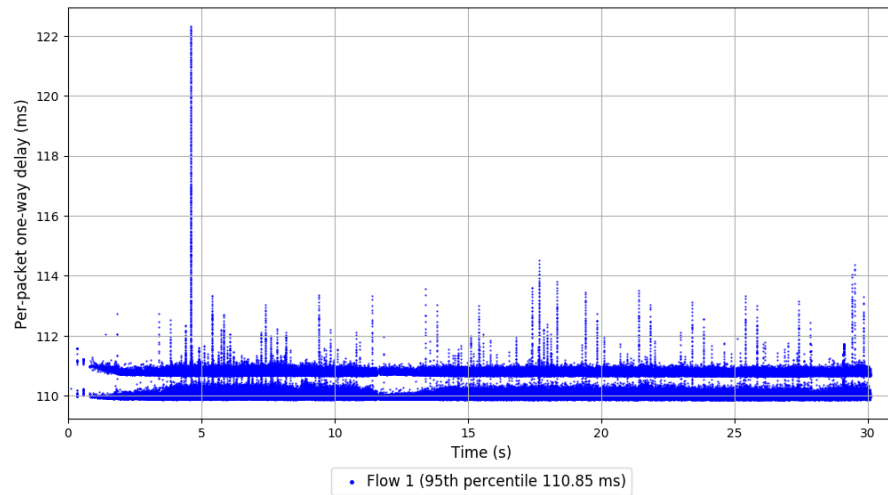
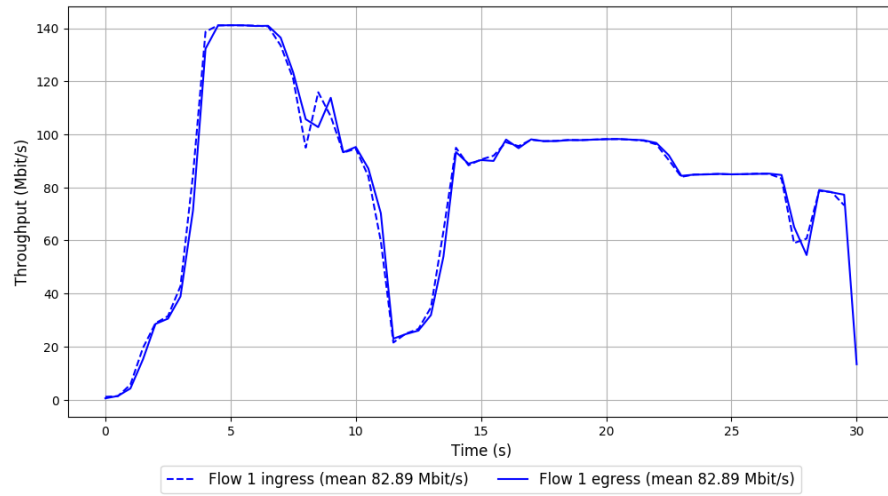
-- Flow 1:

Average throughput: 82.89 Mbit/s

95th percentile per-packet one-way delay: 110.848 ms

Loss rate: 0.00%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-03-13 00:12:50

End at: 2018-03-13 00:13:20

Below is generated by plot.py at 2018-03-13 02:51:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.52 Mbit/s

95th percentile per-packet one-way delay: 112.762 ms

Loss rate: 0.00%

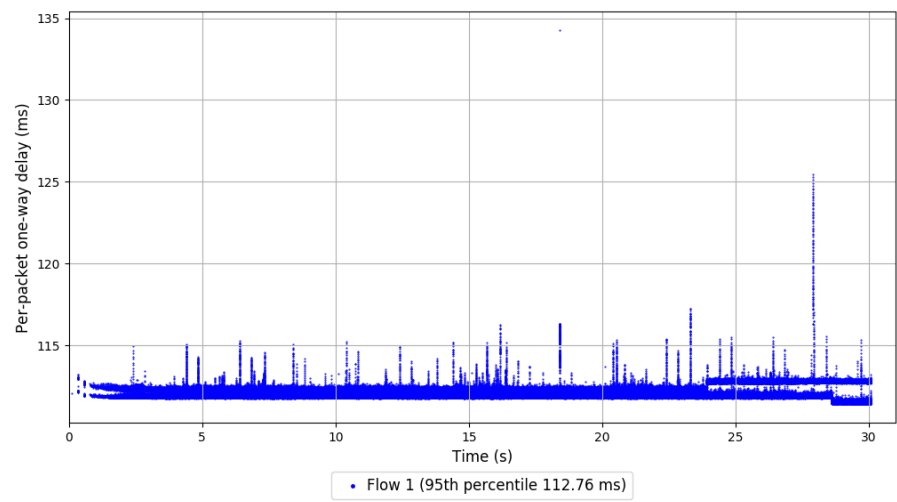
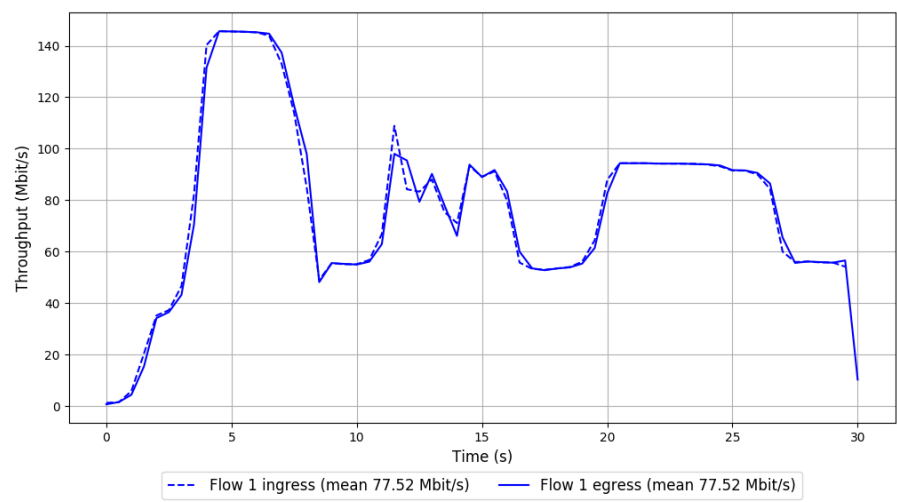
-- Flow 1:

Average throughput: 77.52 Mbit/s

95th percentile per-packet one-way delay: 112.762 ms

Loss rate: 0.00%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-03-13 00:28:12

End at: 2018-03-13 00:28:42

Below is generated by plot.py at 2018-03-13 02:51:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.64 Mbit/s

95th percentile per-packet one-way delay: 112.839 ms

Loss rate: 0.00%

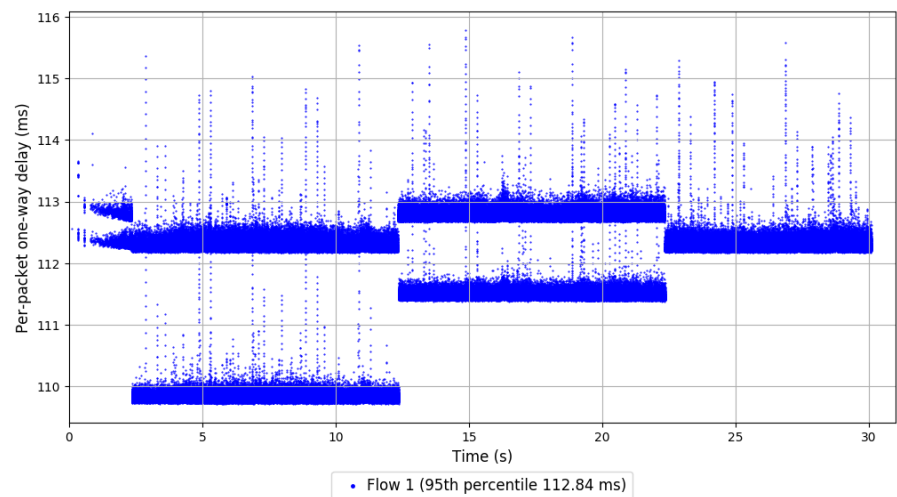
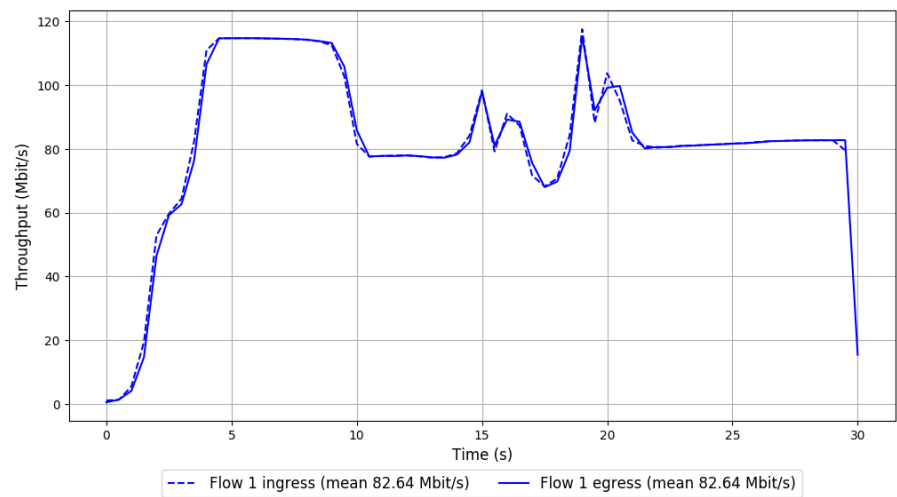
-- Flow 1:

Average throughput: 82.64 Mbit/s

95th percentile per-packet one-way delay: 112.839 ms

Loss rate: 0.00%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-03-13 00:43:13

End at: 2018-03-13 00:43:43

Below is generated by plot.py at 2018-03-13 02:51:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 61.92 Mbit/s

95th percentile per-packet one-way delay: 112.484 ms

Loss rate: 0.00%

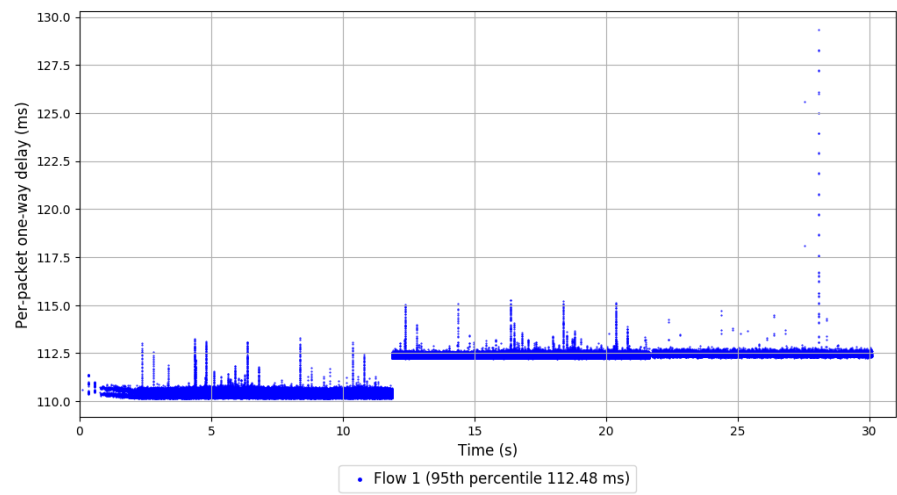
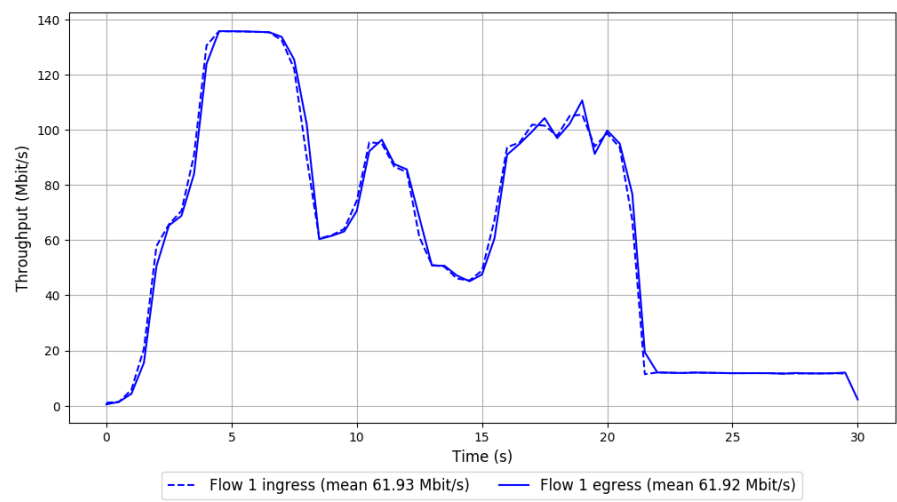
-- Flow 1:

Average throughput: 61.92 Mbit/s

95th percentile per-packet one-way delay: 112.484 ms

Loss rate: 0.00%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-03-13 00:58:26

End at: 2018-03-13 00:58:56

Below is generated by plot.py at 2018-03-13 03:02:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 361.95 Mbit/s

95th percentile per-packet one-way delay: 302.735 ms

Loss rate: 38.41%

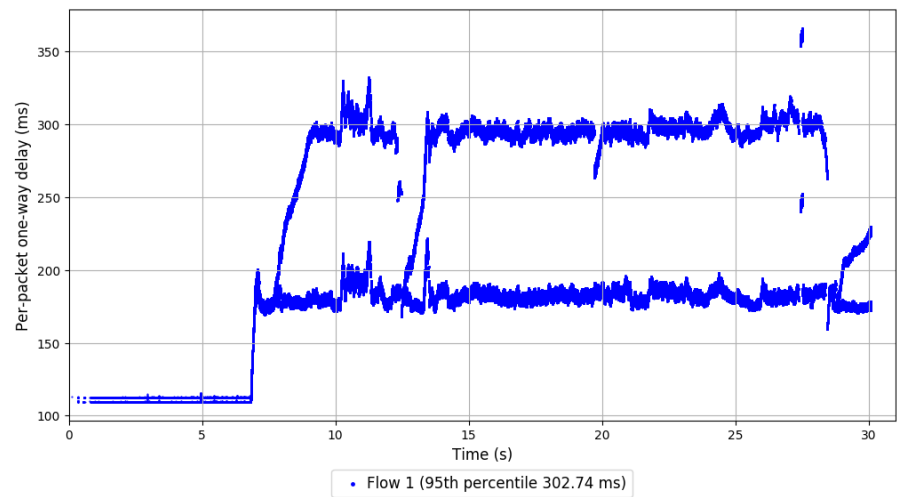
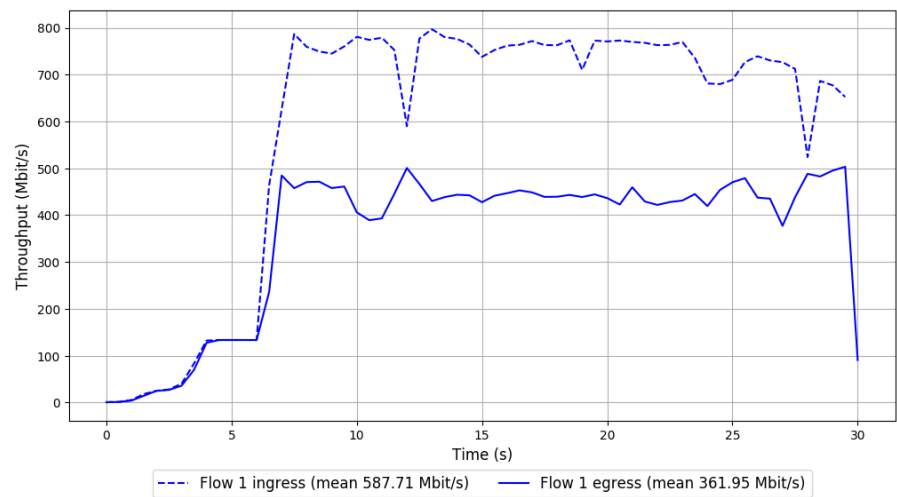
-- Flow 1:

Average throughput: 361.95 Mbit/s

95th percentile per-packet one-way delay: 302.735 ms

Loss rate: 38.41%

Run 10: Report of Copa — Data Link

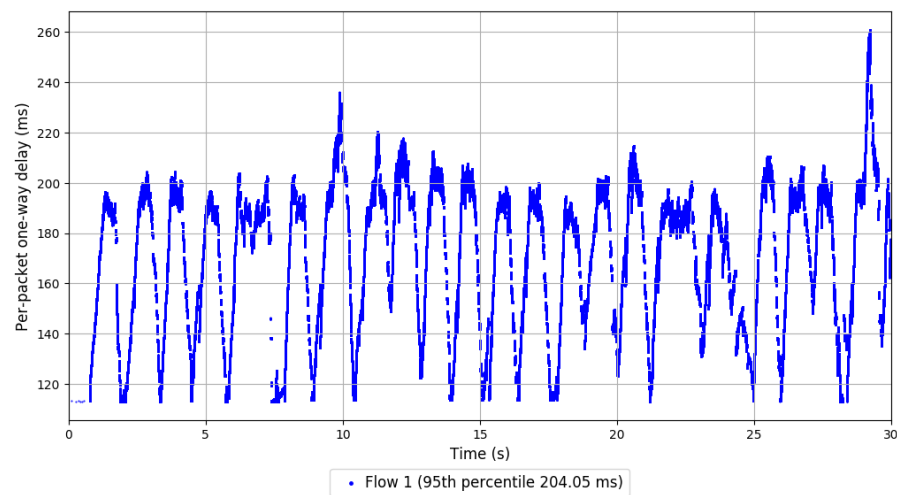
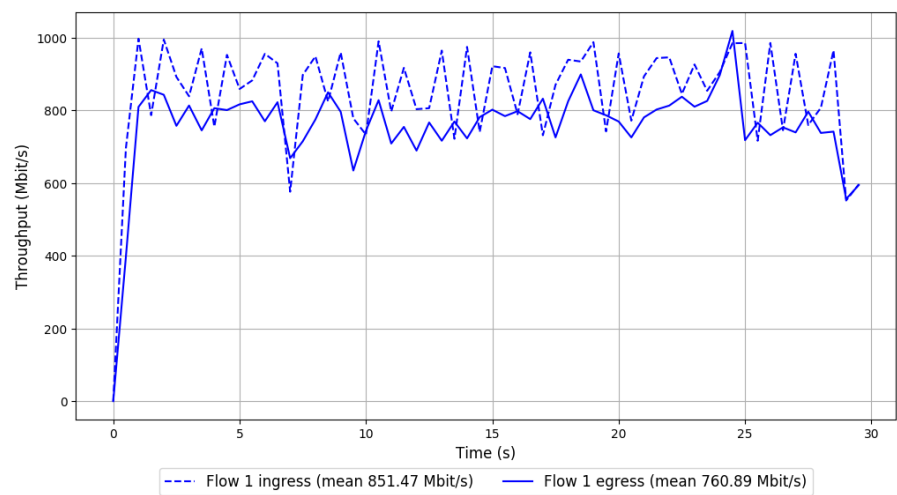


```
Run 1: Statistics of FillP

Start at: 2018-03-12 22:33:51
End at: 2018-03-12 22:34:21

# Below is generated by plot.py at 2018-03-13 03:03:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 760.89 Mbit/s
95th percentile per-packet one-way delay: 204.052 ms
Loss rate: 10.63%
-- Flow 1:
Average throughput: 760.89 Mbit/s
95th percentile per-packet one-way delay: 204.052 ms
Loss rate: 10.63%
```

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-03-12 22:49:12

End at: 2018-03-12 22:49:42

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 759.90 Mbit/s

95th percentile per-packet one-way delay: 206.811 ms

Loss rate: 10.76%

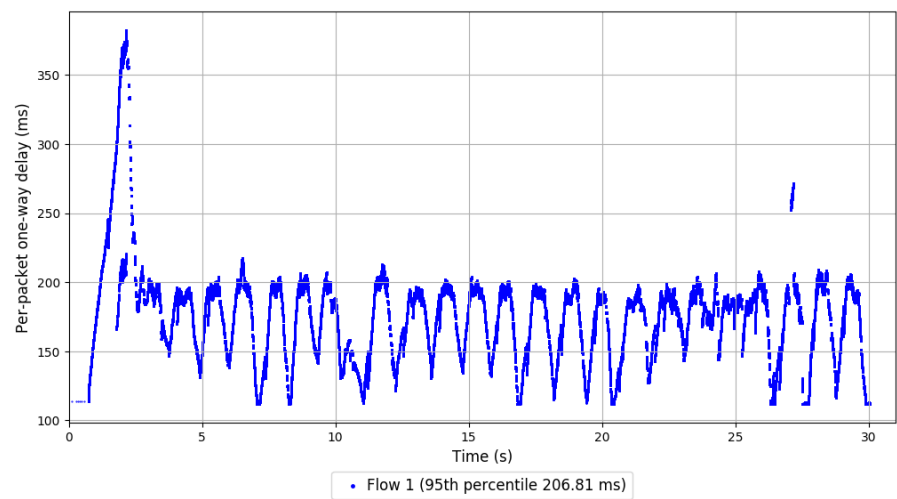
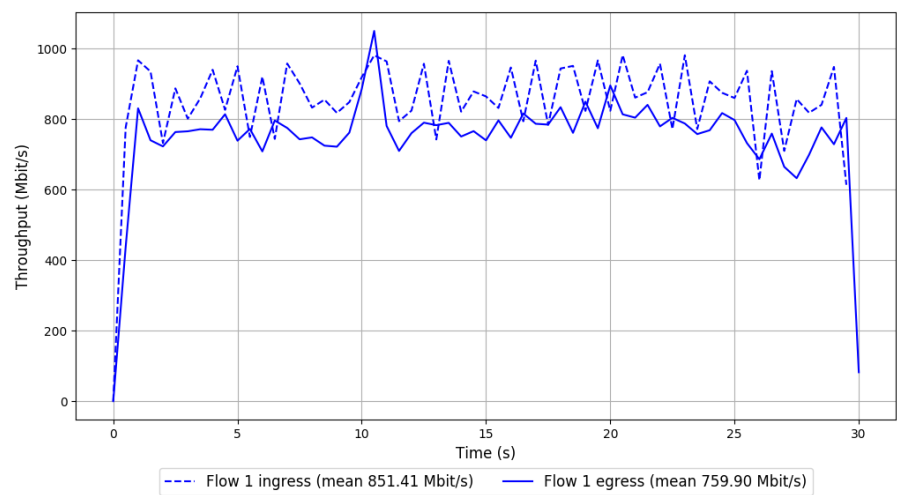
-- Flow 1:

Average throughput: 759.90 Mbit/s

95th percentile per-packet one-way delay: 206.811 ms

Loss rate: 10.76%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-03-12 23:04:20

End at: 2018-03-12 23:04:50

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 790.99 Mbit/s

95th percentile per-packet one-way delay: 195.929 ms

Loss rate: 8.65%

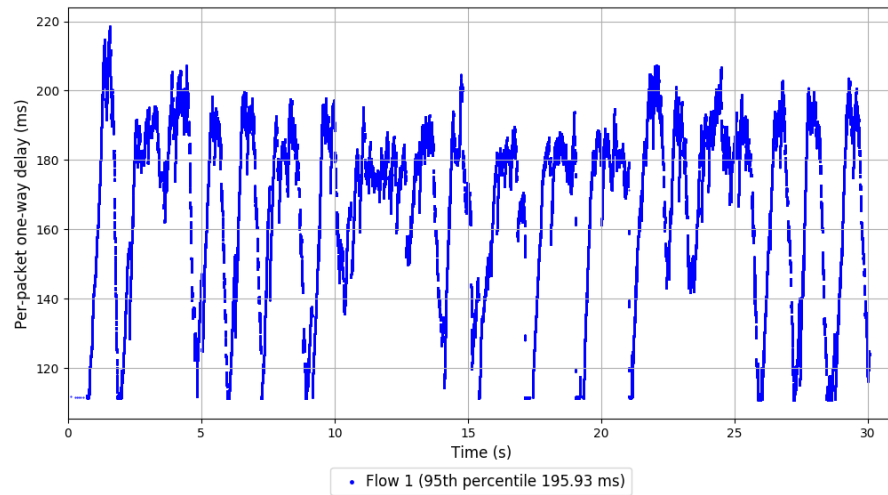
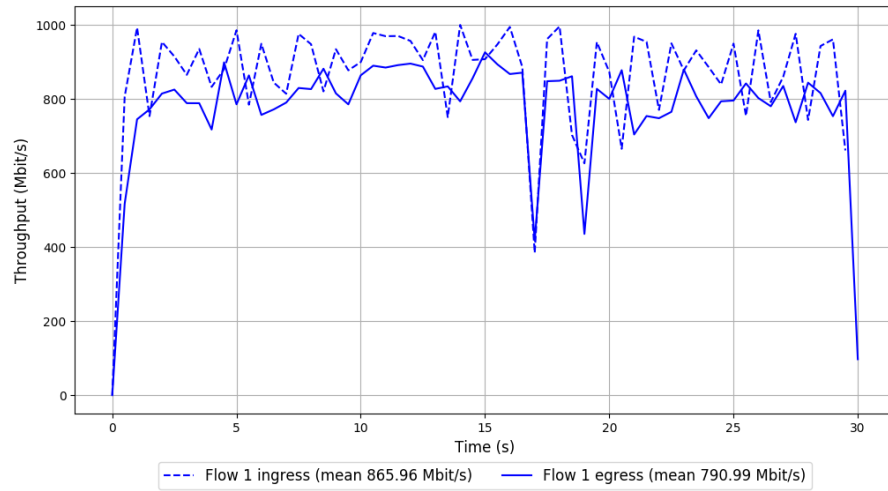
-- Flow 1:

Average throughput: 790.99 Mbit/s

95th percentile per-packet one-way delay: 195.929 ms

Loss rate: 8.65%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-03-12 23:19:32

End at: 2018-03-12 23:20:02

Below is generated by plot.py at 2018-03-13 03:04:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 808.54 Mbit/s

95th percentile per-packet one-way delay: 224.556 ms

Loss rate: 8.94%

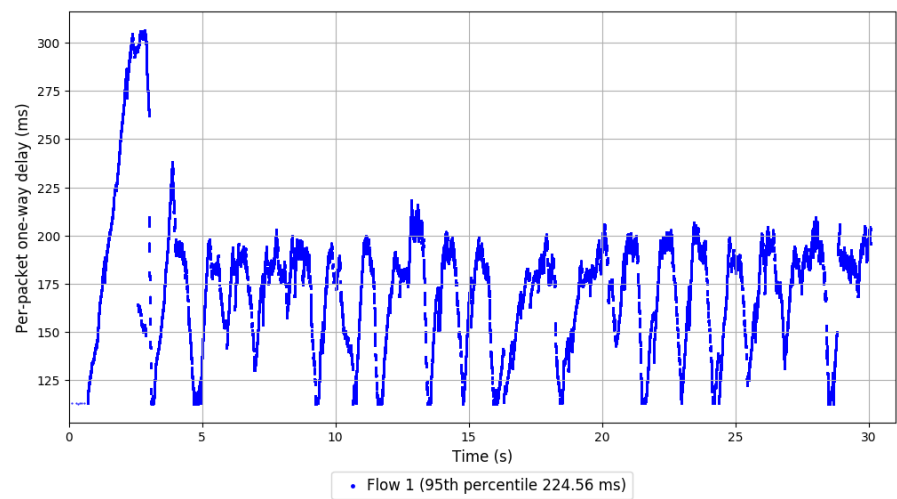
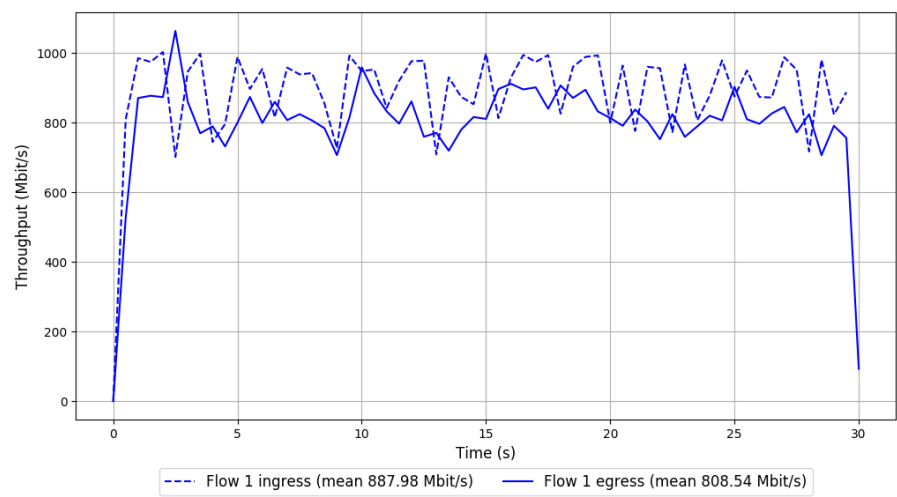
-- Flow 1:

Average throughput: 808.54 Mbit/s

95th percentile per-packet one-way delay: 224.556 ms

Loss rate: 8.94%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-03-12 23:34:44

End at: 2018-03-12 23:35:14

Below is generated by plot.py at 2018-03-13 03:05:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 830.89 Mbit/s

95th percentile per-packet one-way delay: 193.792 ms

Loss rate: 8.36%

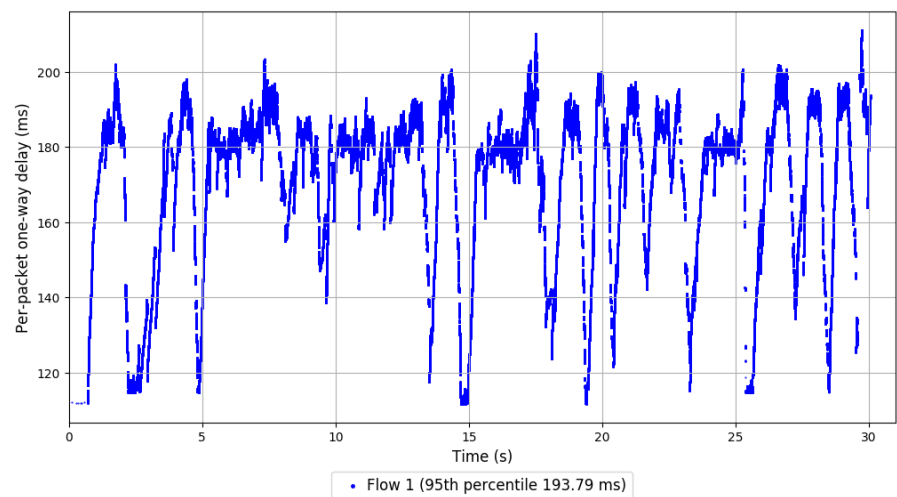
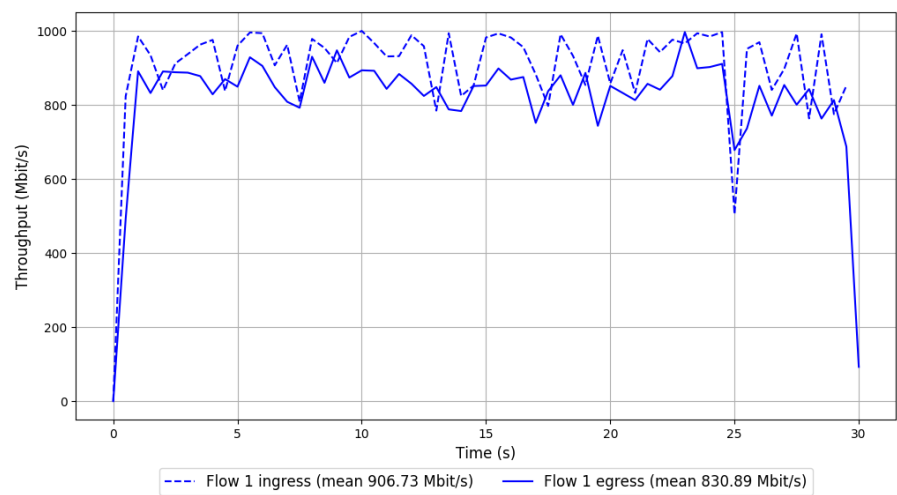
-- Flow 1:

Average throughput: 830.89 Mbit/s

95th percentile per-packet one-way delay: 193.792 ms

Loss rate: 8.36%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-03-12 23:49:49

End at: 2018-03-12 23:50:19

Below is generated by plot.py at 2018-03-13 03:05:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 814.58 Mbit/s

95th percentile per-packet one-way delay: 228.932 ms

Loss rate: 8.07%

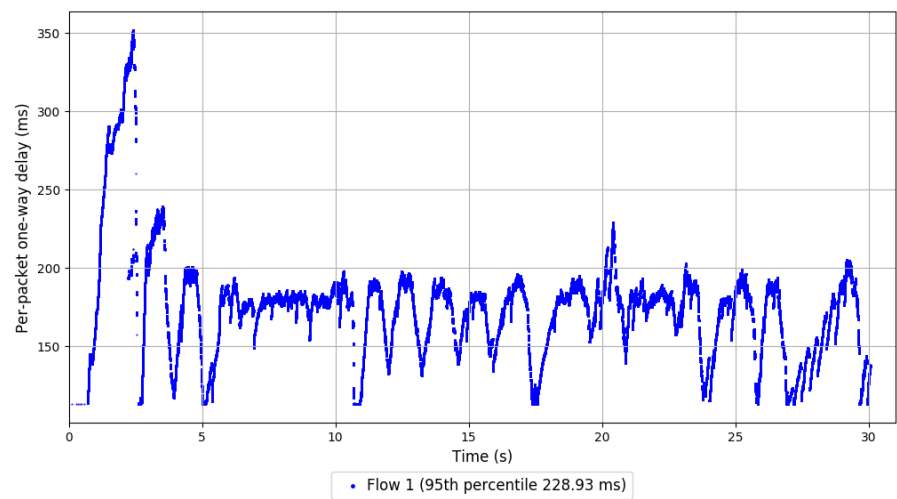
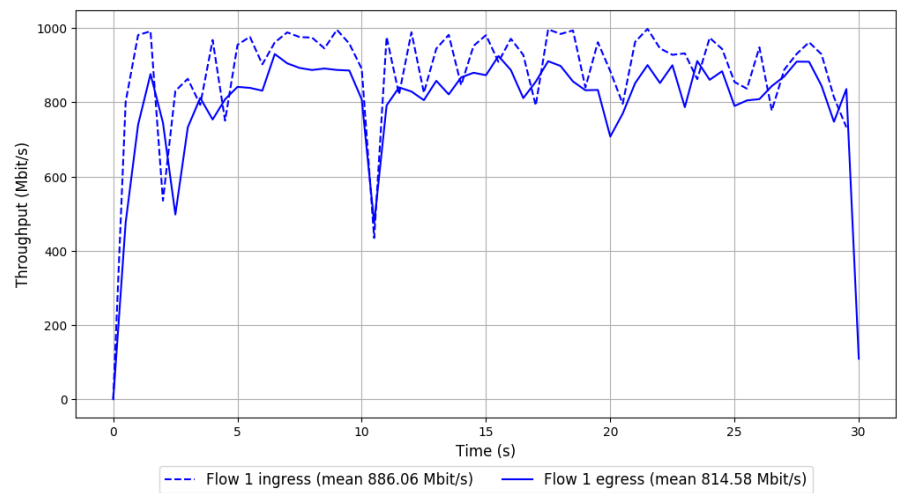
-- Flow 1:

Average throughput: 814.58 Mbit/s

95th percentile per-packet one-way delay: 228.932 ms

Loss rate: 8.07%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

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

End at: 2018-03-13 00:05:43

Below is generated by plot.py at 2018-03-13 03:06:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 816.15 Mbit/s

95th percentile per-packet one-way delay: 193.919 ms

Loss rate: 7.75%

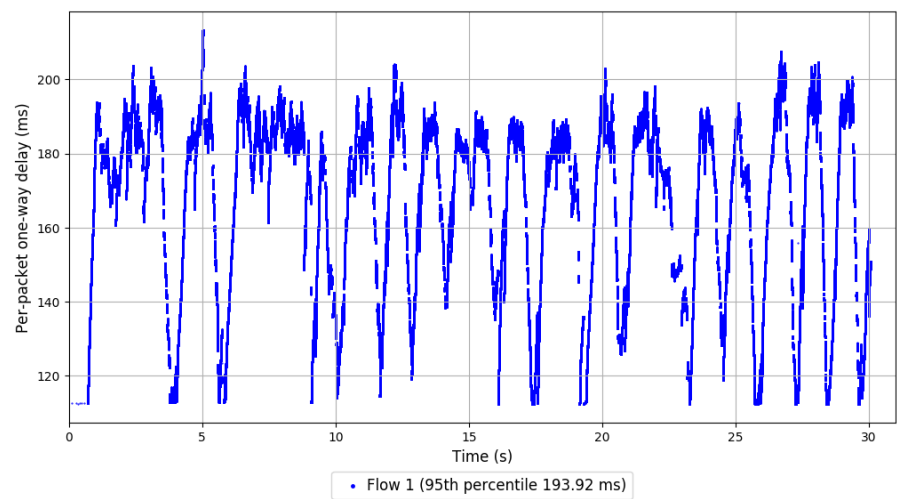
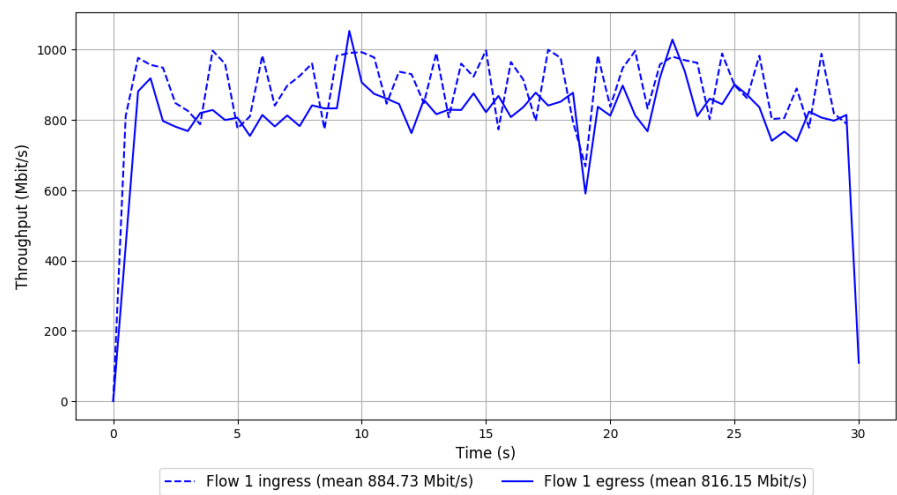
-- Flow 1:

Average throughput: 816.15 Mbit/s

95th percentile per-packet one-way delay: 193.919 ms

Loss rate: 7.75%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-03-13 00:20:31

End at: 2018-03-13 00:21:01

Below is generated by plot.py at 2018-03-13 03:16:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 789.23 Mbit/s

95th percentile per-packet one-way delay: 198.191 ms

Loss rate: 9.50%

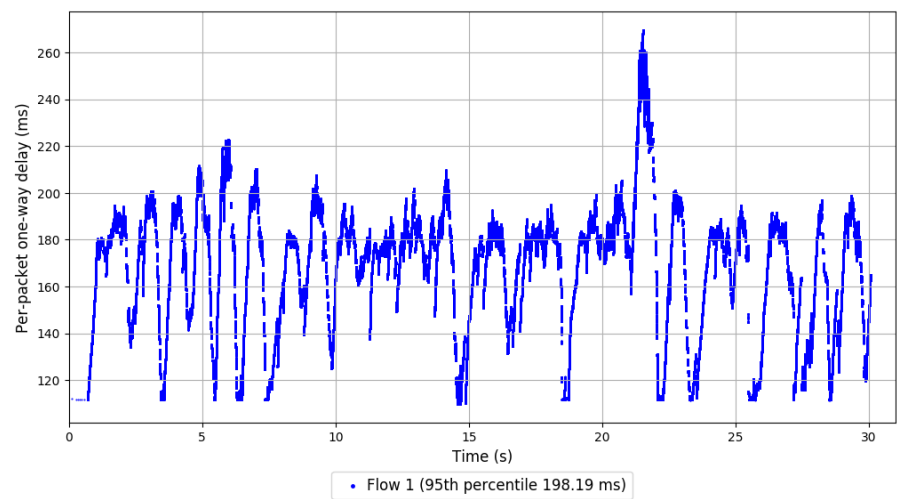
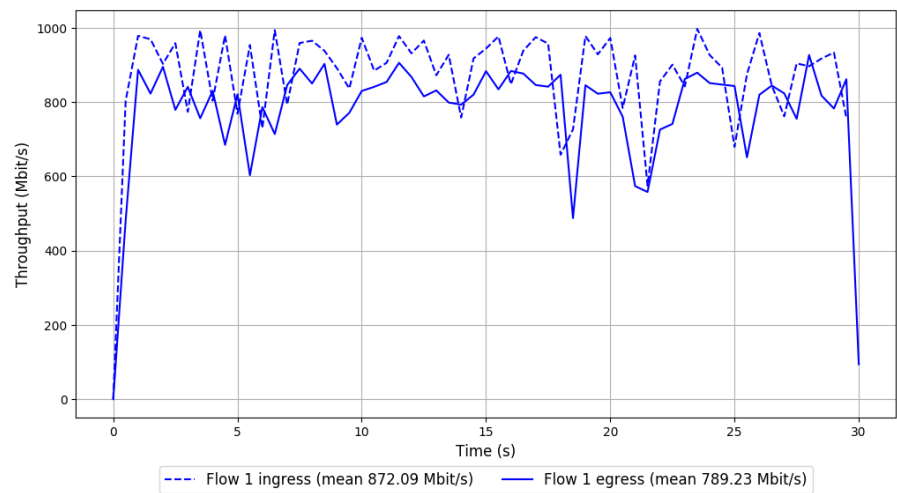
-- Flow 1:

Average throughput: 789.23 Mbit/s

95th percentile per-packet one-way delay: 198.191 ms

Loss rate: 9.50%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-03-13 00:35:43

End at: 2018-03-13 00:36:13

Below is generated by plot.py at 2018-03-13 03:17:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 785.71 Mbit/s

95th percentile per-packet one-way delay: 197.553 ms

Loss rate: 8.98%

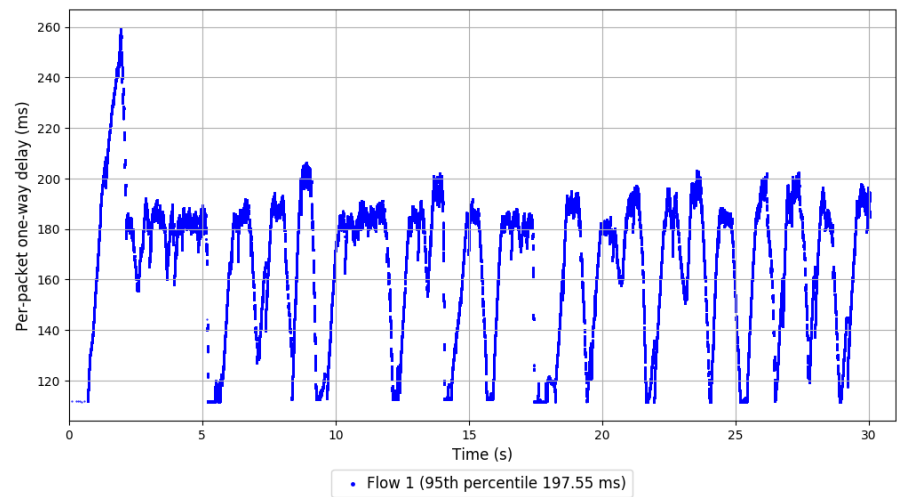
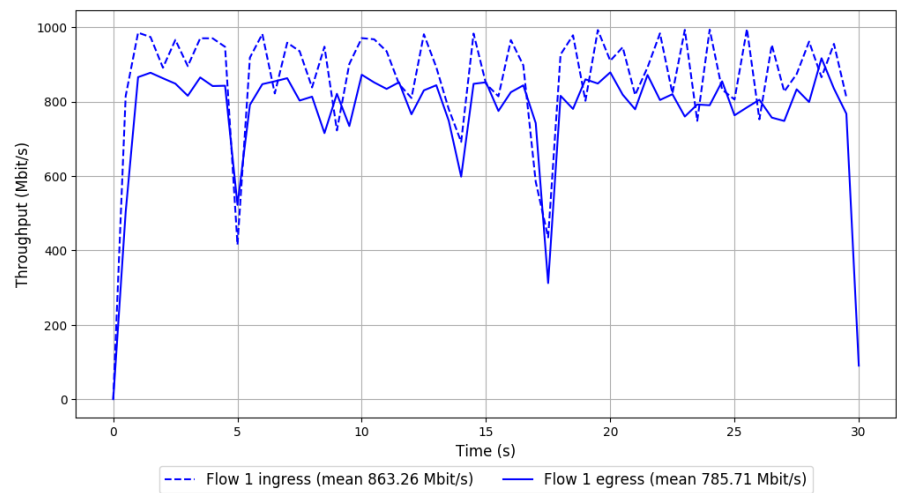
-- Flow 1:

Average throughput: 785.71 Mbit/s

95th percentile per-packet one-way delay: 197.553 ms

Loss rate: 8.98%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-03-13 00:50:52

End at: 2018-03-13 00:51:22

Below is generated by plot.py at 2018-03-13 03:18:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 818.63 Mbit/s

95th percentile per-packet one-way delay: 208.812 ms

Loss rate: 8.05%

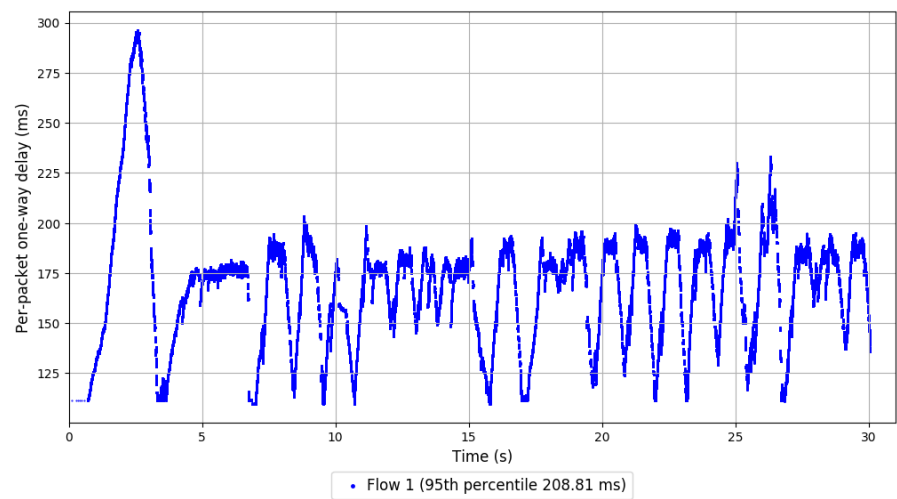
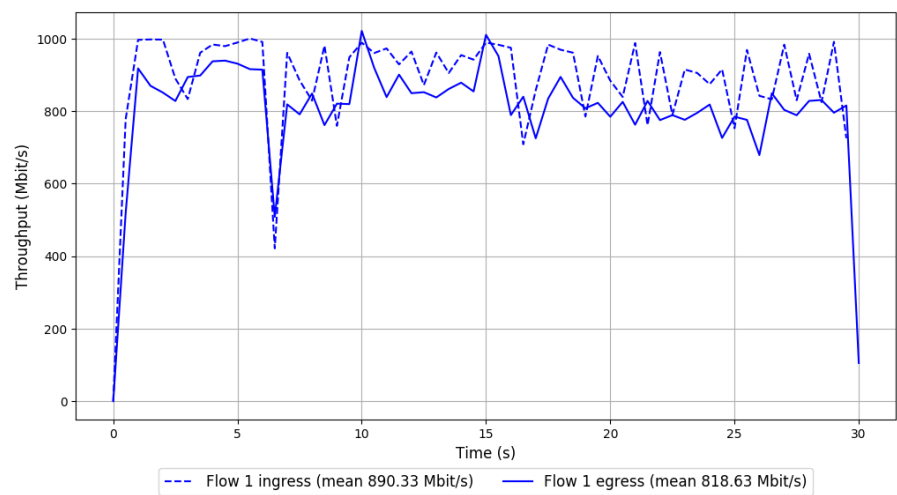
-- Flow 1:

Average throughput: 818.63 Mbit/s

95th percentile per-packet one-way delay: 208.812 ms

Loss rate: 8.05%

Run 10: Report of FillP — Data Link

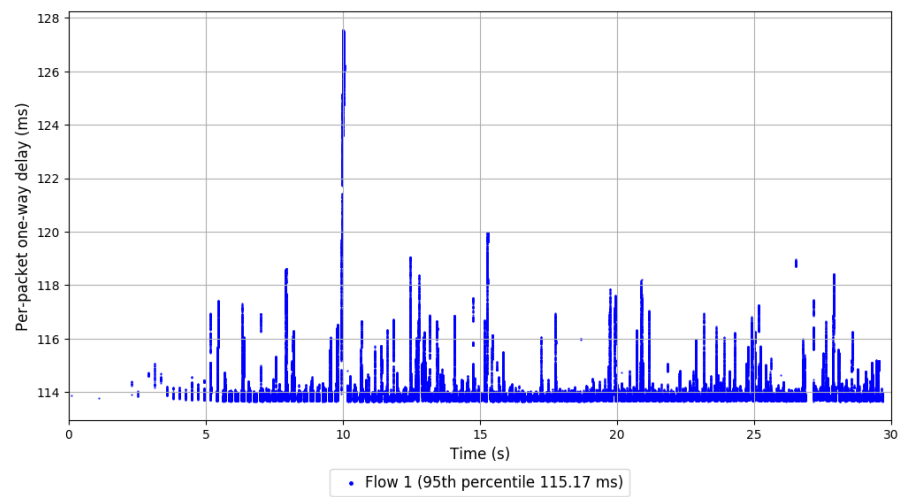
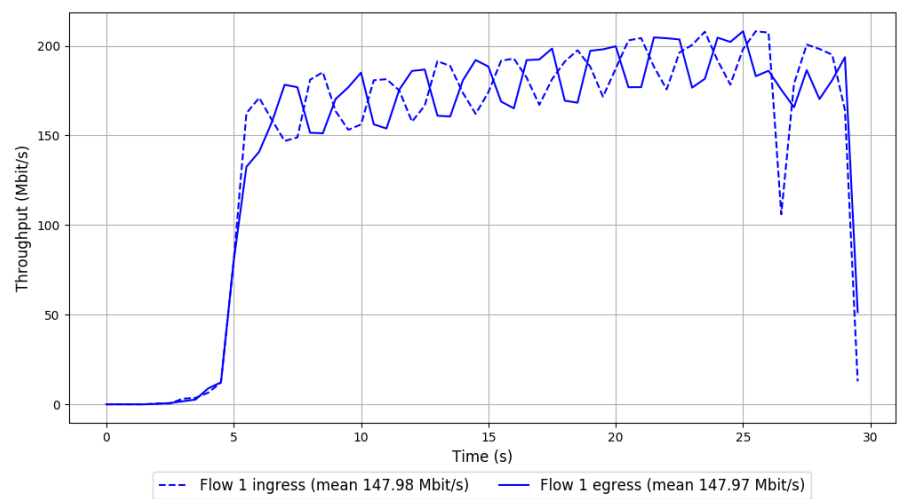


```
Run 1: Statistics of Indigo-1-32

Start at: 2018-03-12 22:38:25
End at: 2018-03-12 22:38:55

# Below is generated by plot.py at 2018-03-13 03:18:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 147.97 Mbit/s
95th percentile per-packet one-way delay: 115.166 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 147.97 Mbit/s
95th percentile per-packet one-way delay: 115.166 ms
Loss rate: 0.02%
```

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

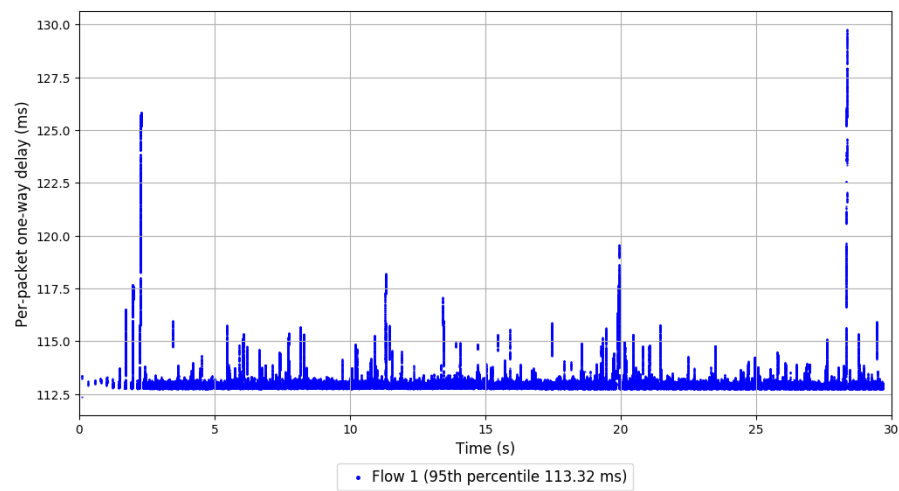
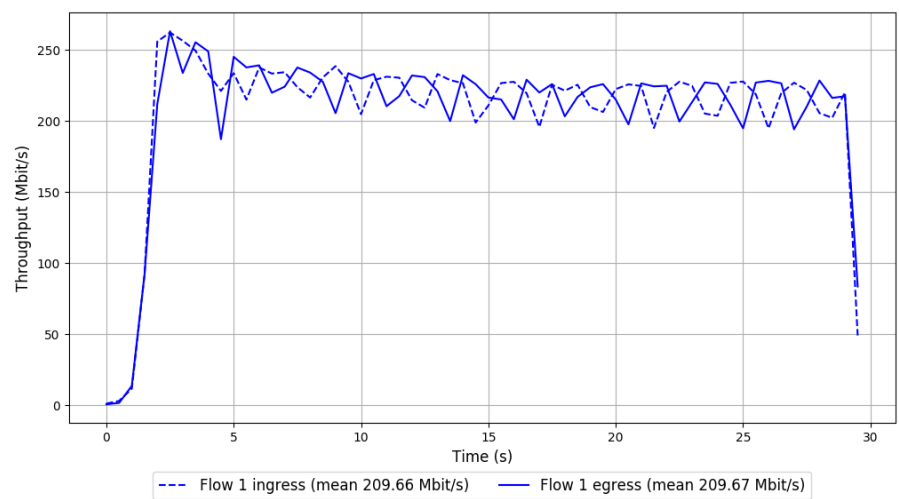


```
Run 2: Statistics of Indigo-1-32

Start at: 2018-03-12 22:53:47
End at: 2018-03-12 22:54:17

# Below is generated by plot.py at 2018-03-13 03:18:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 209.67 Mbit/s
95th percentile per-packet one-way delay: 113.320 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 209.67 Mbit/s
95th percentile per-packet one-way delay: 113.320 ms
Loss rate: 0.01%
```

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



Run 3: Statistics of Indigo-1-32

Start at: 2018-03-12 23:08:50

End at: 2018-03-12 23:09:20

Below is generated by plot.py at 2018-03-13 03:18:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 165.82 Mbit/s

95th percentile per-packet one-way delay: 112.012 ms

Loss rate: 0.00%

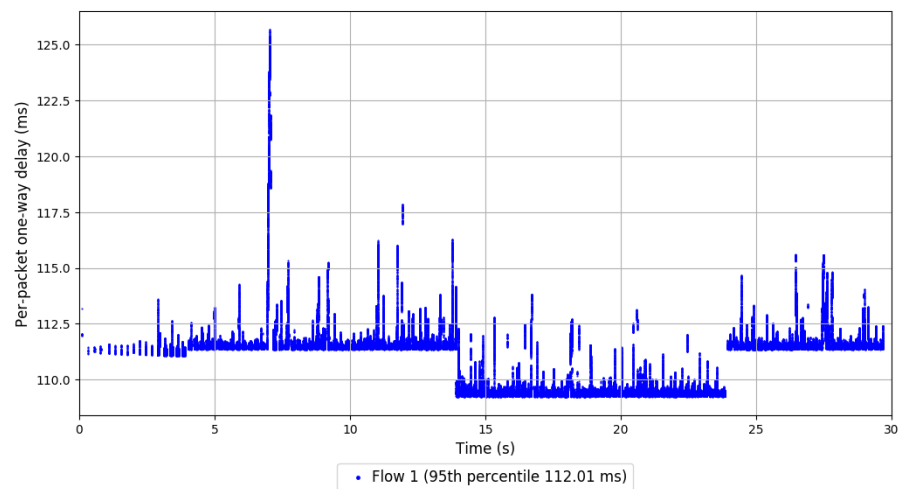
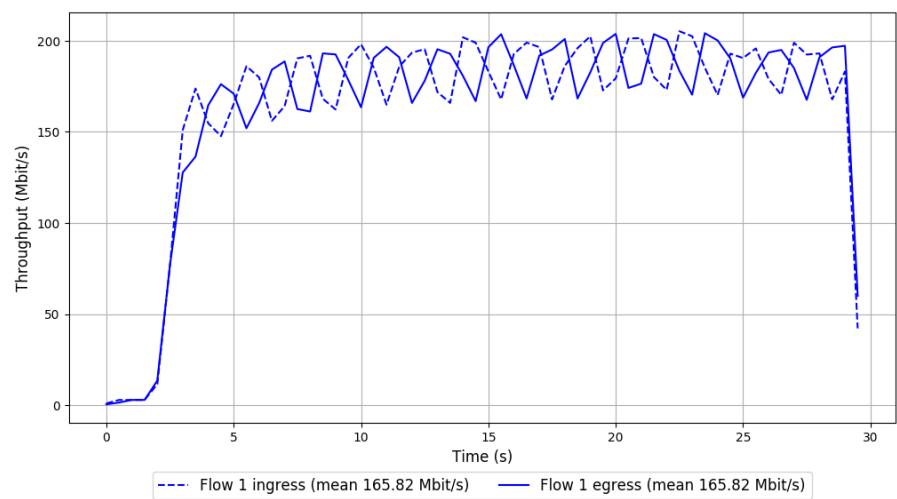
-- Flow 1:

Average throughput: 165.82 Mbit/s

95th percentile per-packet one-way delay: 112.012 ms

Loss rate: 0.00%

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



Run 4: Statistics of Indigo-1-32

Start at: 2018-03-12 23:24:04

End at: 2018-03-12 23:24:34

Below is generated by plot.py at 2018-03-13 03:18:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 162.22 Mbit/s

95th percentile per-packet one-way delay: 113.203 ms

Loss rate: 0.00%

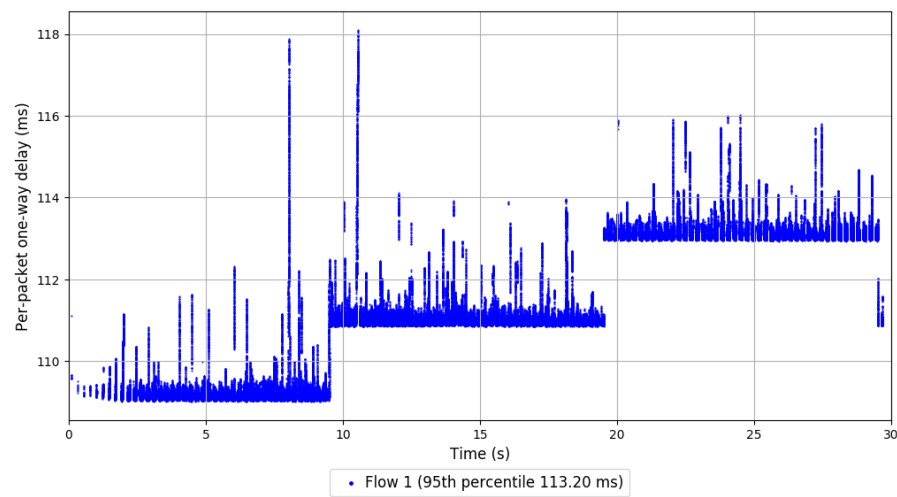
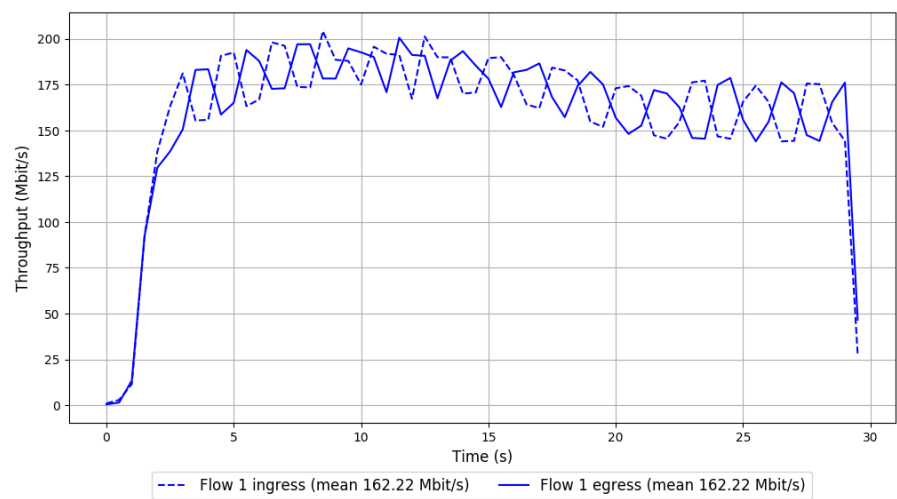
-- Flow 1:

Average throughput: 162.22 Mbit/s

95th percentile per-packet one-way delay: 113.203 ms

Loss rate: 0.00%

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



Run 5: Statistics of Indigo-1-32

Start at: 2018-03-12 23:39:13

End at: 2018-03-12 23:39:43

Below is generated by plot.py at 2018-03-13 03:18:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 145.58 Mbit/s

95th percentile per-packet one-way delay: 113.684 ms

Loss rate: 0.00%

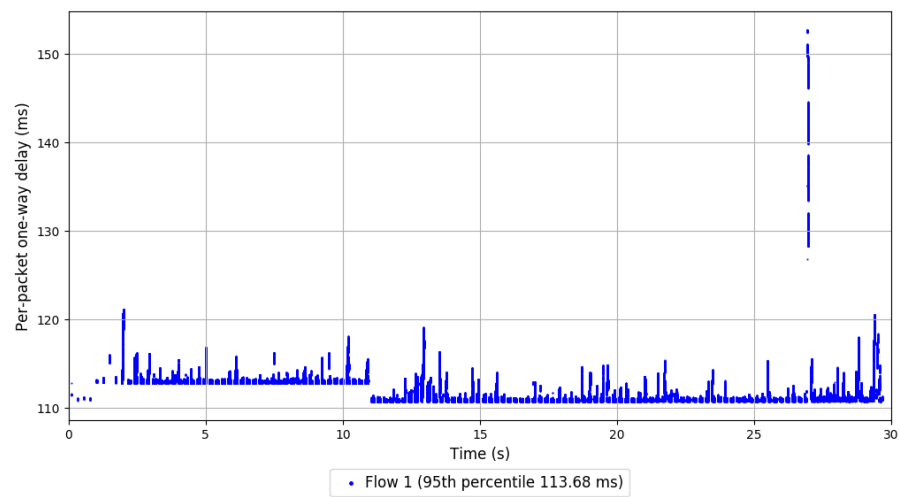
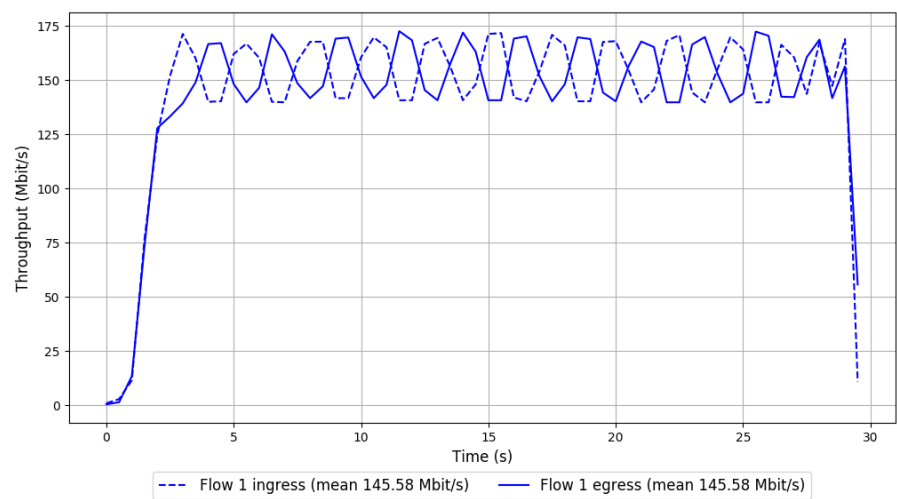
-- Flow 1:

Average throughput: 145.58 Mbit/s

95th percentile per-packet one-way delay: 113.684 ms

Loss rate: 0.00%

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



Run 6: Statistics of Indigo-1-32

Start at: 2018-03-12 23:54:15

End at: 2018-03-12 23:54:45

Below is generated by plot.py at 2018-03-13 03:18:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 158.93 Mbit/s

95th percentile per-packet one-way delay: 112.024 ms

Loss rate: 0.00%

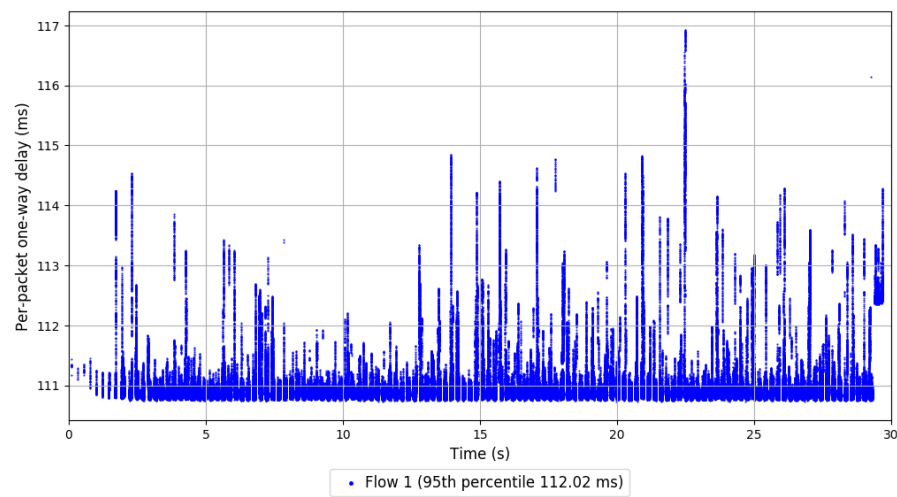
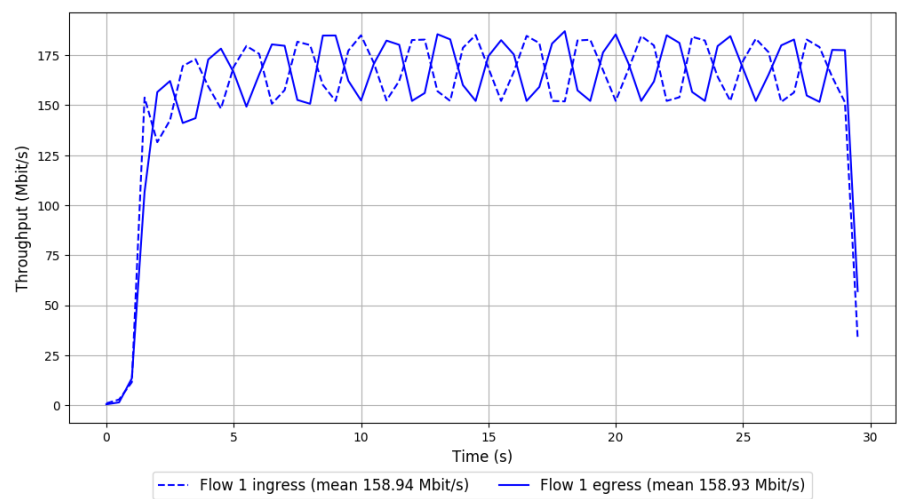
-- Flow 1:

Average throughput: 158.93 Mbit/s

95th percentile per-packet one-way delay: 112.024 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 00:09:35

End at: 2018-03-13 00:10:05

Below is generated by plot.py at 2018-03-13 03:18:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 147.48 Mbit/s

95th percentile per-packet one-way delay: 113.472 ms

Loss rate: 0.00%

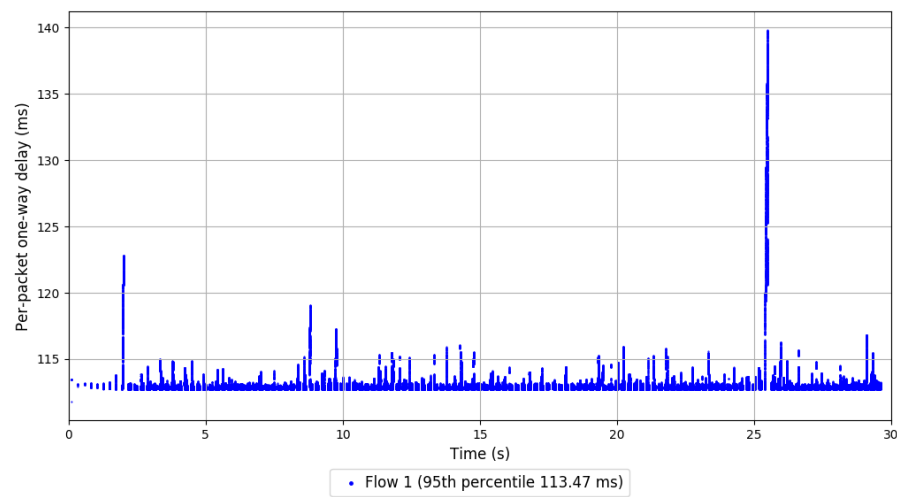
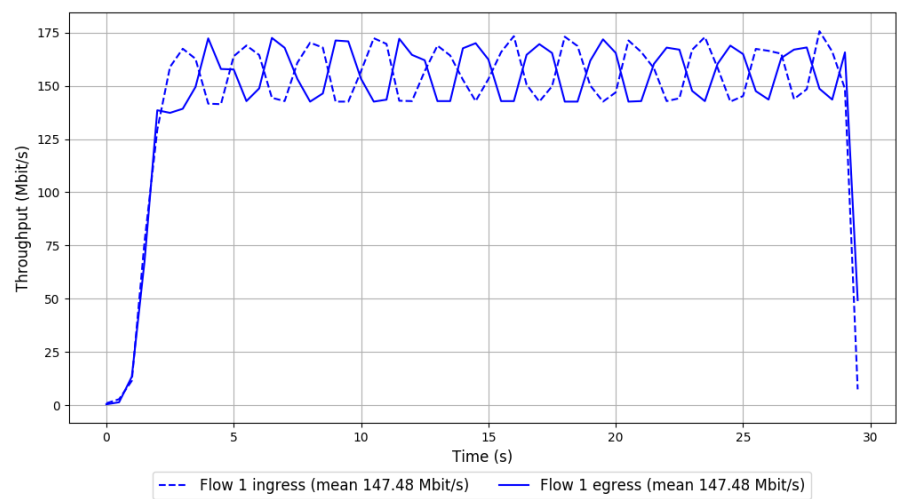
-- Flow 1:

Average throughput: 147.48 Mbit/s

95th percentile per-packet one-way delay: 113.472 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 00:25:02

End at: 2018-03-13 00:25:32

Below is generated by plot.py at 2018-03-13 03:18:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 151.99 Mbit/s

95th percentile per-packet one-way delay: 113.858 ms

Loss rate: 0.05%

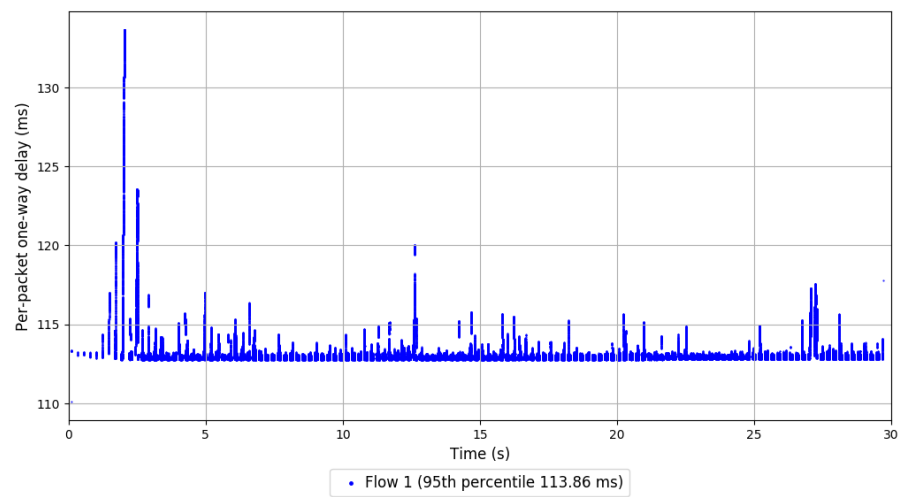
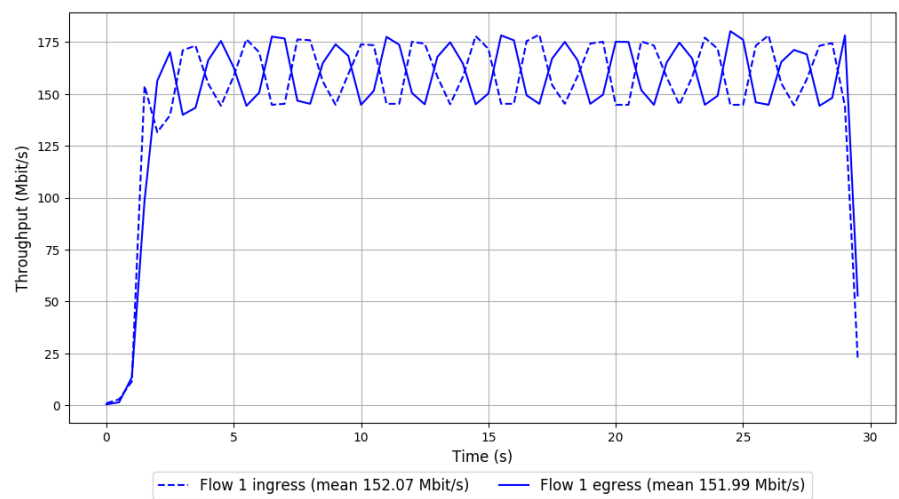
-- Flow 1:

Average throughput: 151.99 Mbit/s

95th percentile per-packet one-way delay: 113.858 ms

Loss rate: 0.05%

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



Run 9: Statistics of Indigo-1-32

Start at: 2018-03-13 00:40:11

End at: 2018-03-13 00:40:41

Below is generated by plot.py at 2018-03-13 03:18:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 153.16 Mbit/s

95th percentile per-packet one-way delay: 112.530 ms

Loss rate: 0.00%

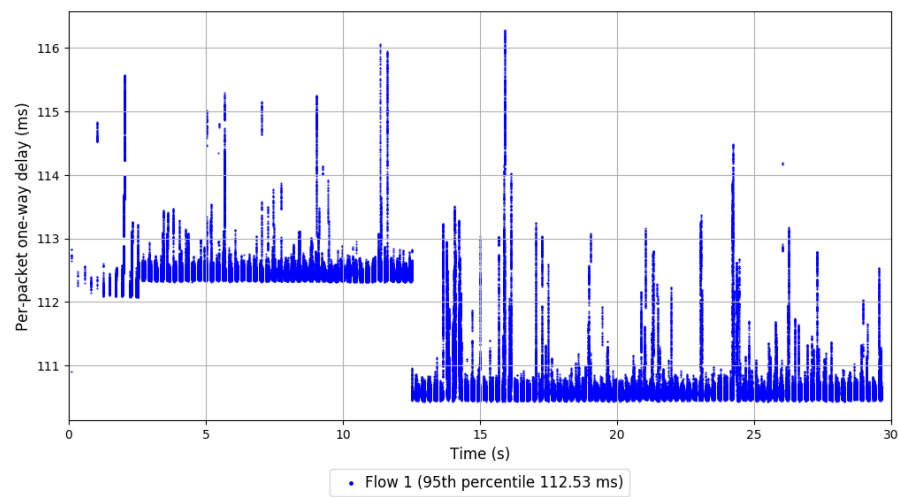
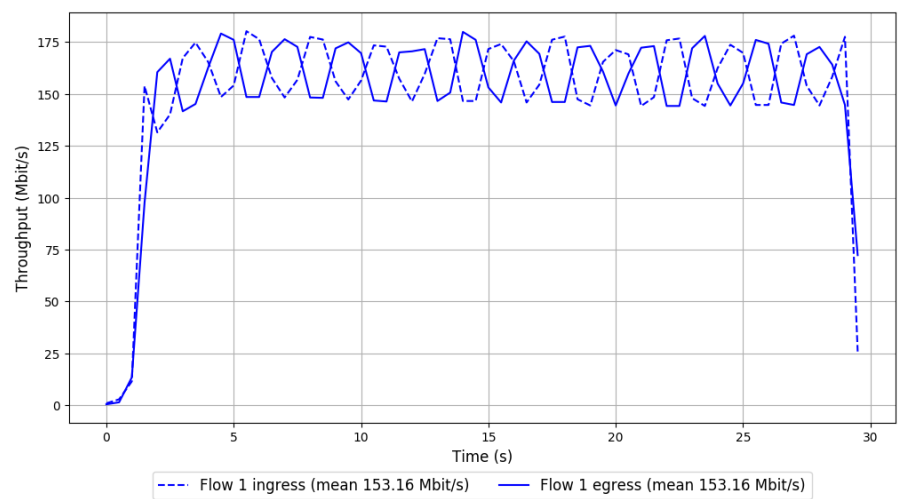
-- Flow 1:

Average throughput: 153.16 Mbit/s

95th percentile per-packet one-way delay: 112.530 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 00:55:26

End at: 2018-03-13 00:55:56

Below is generated by plot.py at 2018-03-13 03:18:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 148.11 Mbit/s

95th percentile per-packet one-way delay: 112.591 ms

Loss rate: 0.00%

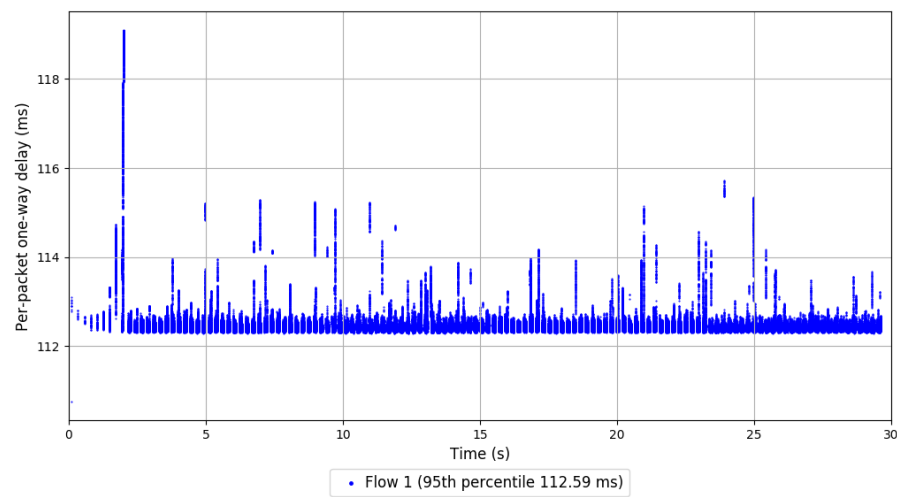
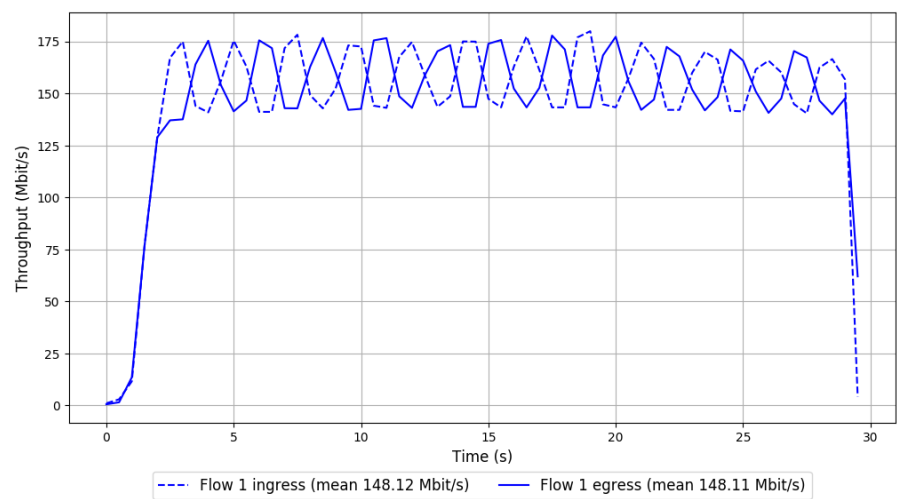
-- Flow 1:

Average throughput: 148.11 Mbit/s

95th percentile per-packet one-way delay: 112.591 ms

Loss rate: 0.00%

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



Run 1: Statistics of Vivace-latency

Start at: 2018-03-12 22:32:49

End at: 2018-03-12 22:33:19

Below is generated by plot.py at 2018-03-13 03:18:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 300.03 Mbit/s

95th percentile per-packet one-way delay: 193.641 ms

Loss rate: 0.48%

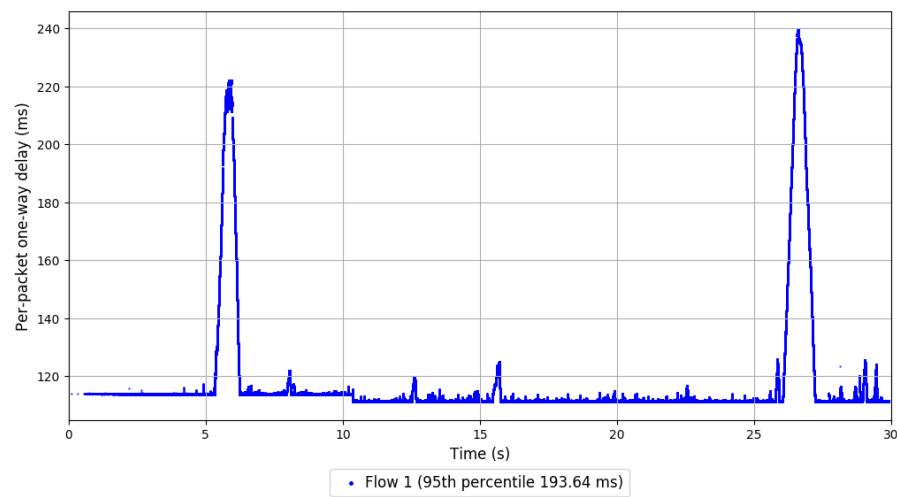
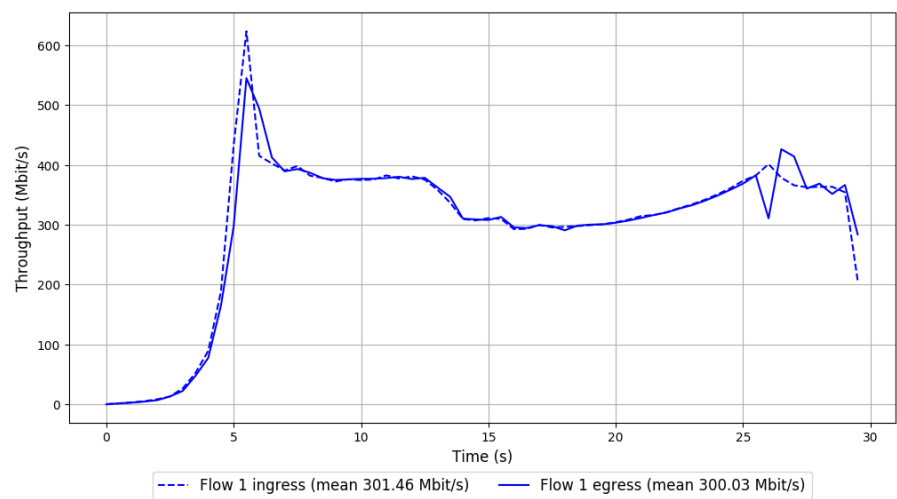
-- Flow 1:

Average throughput: 300.03 Mbit/s

95th percentile per-packet one-way delay: 193.641 ms

Loss rate: 0.48%

Run 1: Report of Vivace-latency — Data Link



Run 2: Statistics of Vivace-latency

Start at: 2018-03-12 22:48:13

End at: 2018-03-12 22:48:43

Below is generated by plot.py at 2018-03-13 03:18:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 252.59 Mbit/s

95th percentile per-packet one-way delay: 166.995 ms

Loss rate: 0.22%

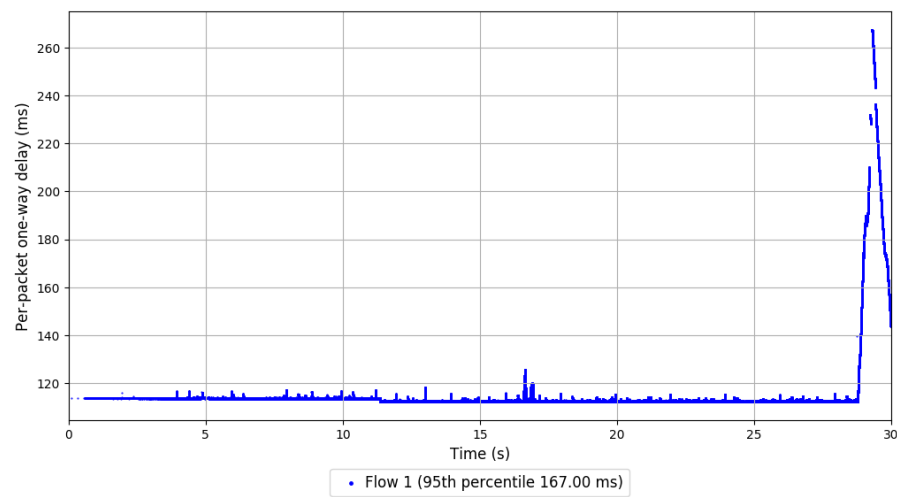
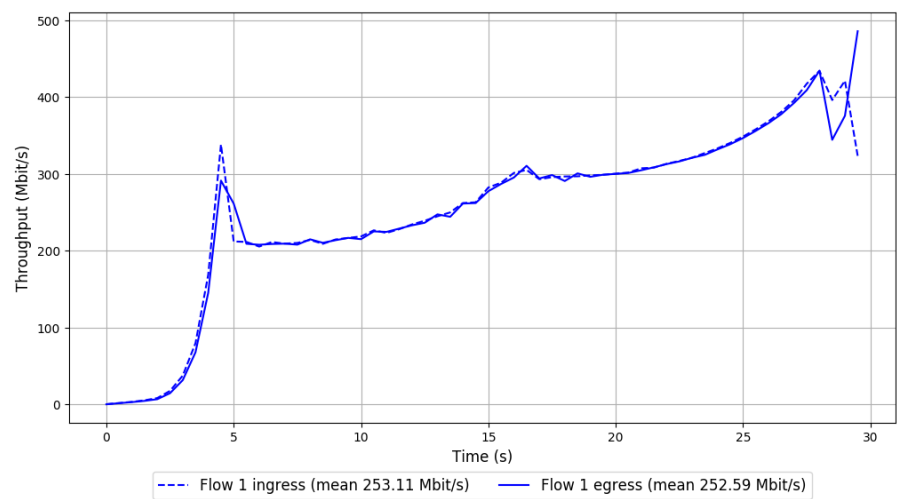
-- Flow 1:

Average throughput: 252.59 Mbit/s

95th percentile per-packet one-way delay: 166.995 ms

Loss rate: 0.22%

Run 2: Report of Vivace-latency — Data Link



Run 3: Statistics of Vivace-latency

Start at: 2018-03-12 23:03:22

End at: 2018-03-12 23:03:52

Below is generated by plot.py at 2018-03-13 03:18:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 229.90 Mbit/s

95th percentile per-packet one-way delay: 137.053 ms

Loss rate: 0.00%

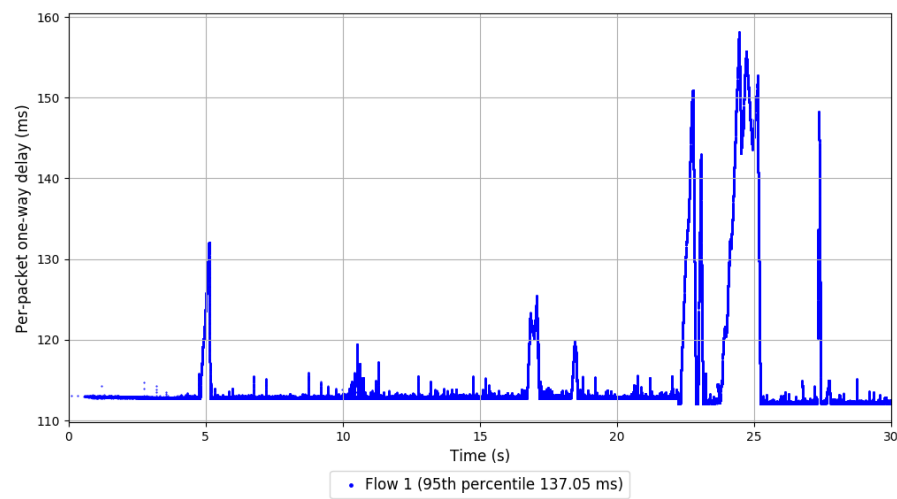
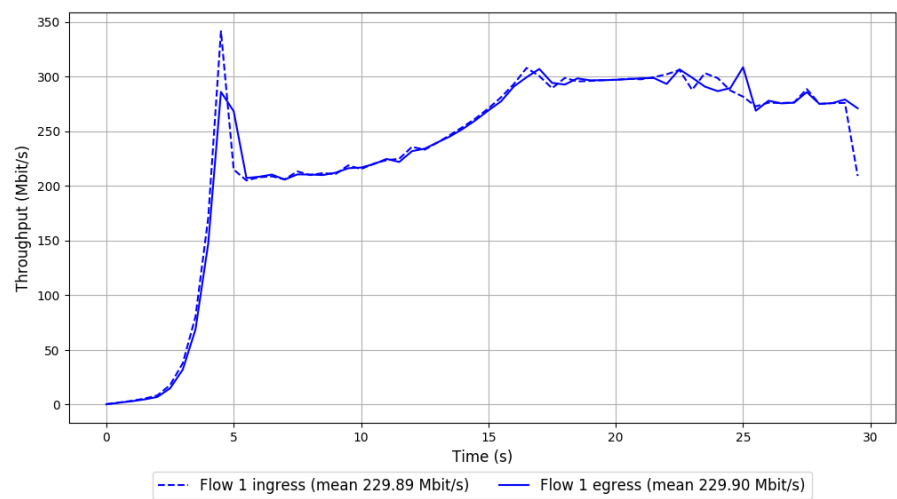
-- Flow 1:

Average throughput: 229.90 Mbit/s

95th percentile per-packet one-way delay: 137.053 ms

Loss rate: 0.00%

Run 3: Report of Vivace-latency — Data Link



Run 4: Statistics of Vivace-latency

Start at: 2018-03-12 23:18:32

End at: 2018-03-12 23:19:02

Below is generated by plot.py at 2018-03-13 03:18:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 250.58 Mbit/s

95th percentile per-packet one-way delay: 119.226 ms

Loss rate: 0.00%

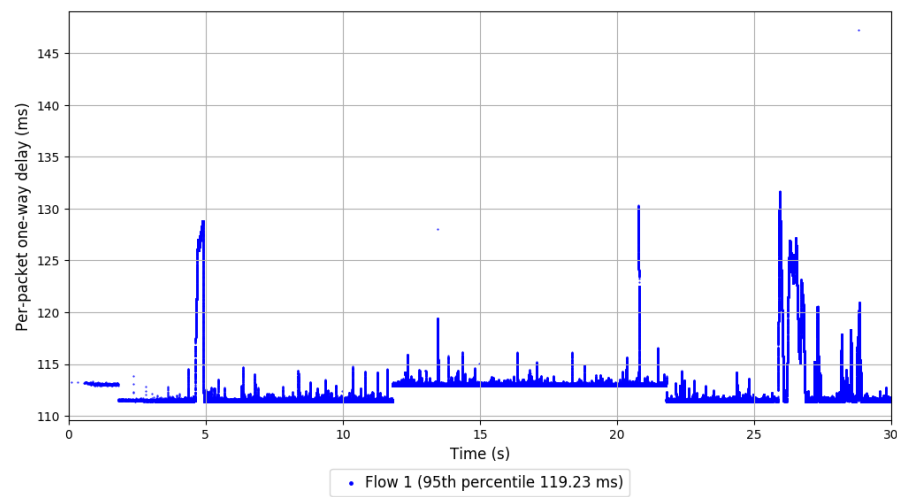
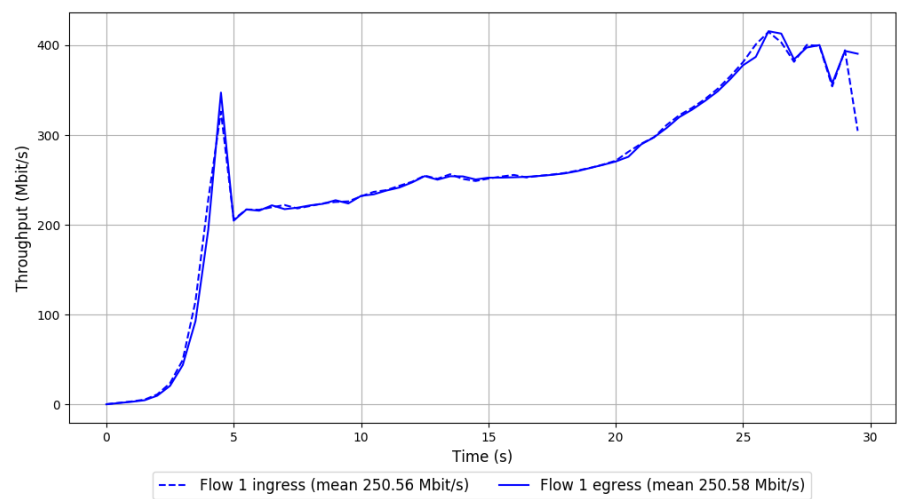
-- Flow 1:

Average throughput: 250.58 Mbit/s

95th percentile per-packet one-way delay: 119.226 ms

Loss rate: 0.00%

Run 4: Report of Vivace-latency — Data Link



Run 5: Statistics of Vivace-latency

Start at: 2018-03-12 23:33:43

End at: 2018-03-12 23:34:13

Below is generated by plot.py at 2018-03-13 03:18:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 277.98 Mbit/s

95th percentile per-packet one-way delay: 203.072 ms

Loss rate: 0.07%

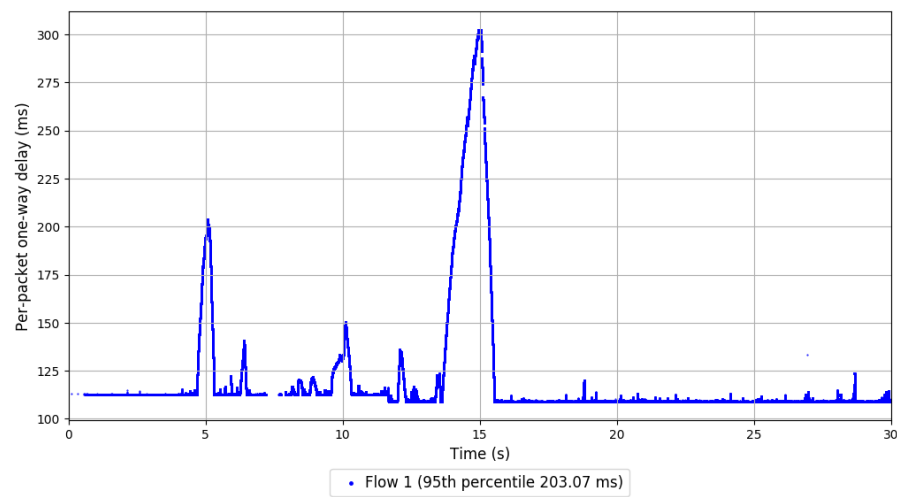
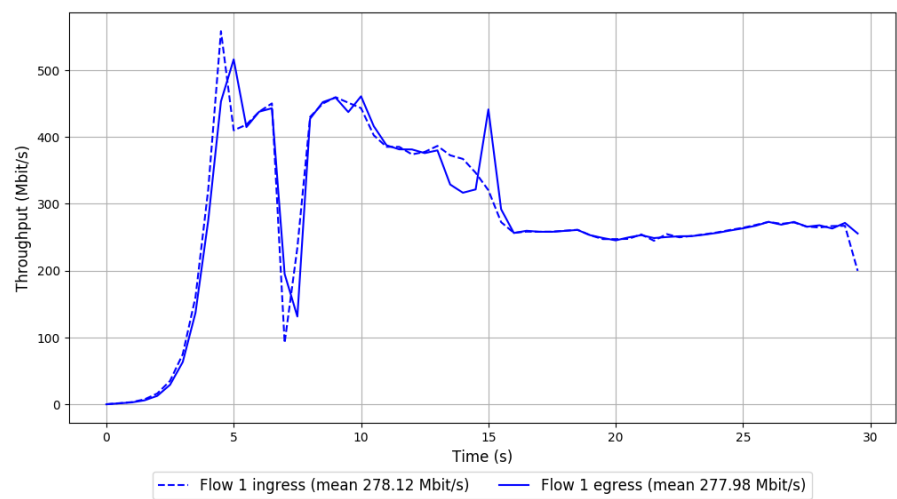
-- Flow 1:

Average throughput: 277.98 Mbit/s

95th percentile per-packet one-way delay: 203.072 ms

Loss rate: 0.07%

Run 5: Report of Vivace-latency — Data Link



Run 6: Statistics of Vivace-latency

Start at: 2018-03-12 23:48:48

End at: 2018-03-12 23:49:18

Below is generated by plot.py at 2018-03-13 03:19:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 275.05 Mbit/s

95th percentile per-packet one-way delay: 129.403 ms

Loss rate: 0.00%

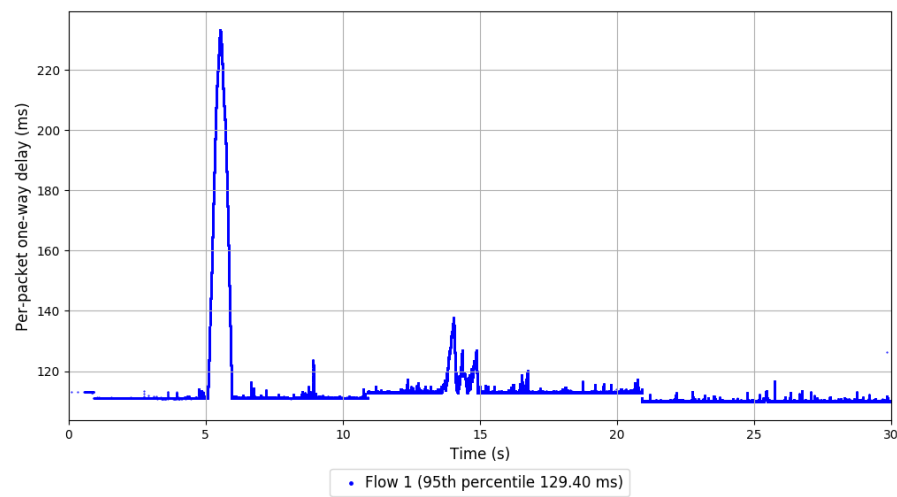
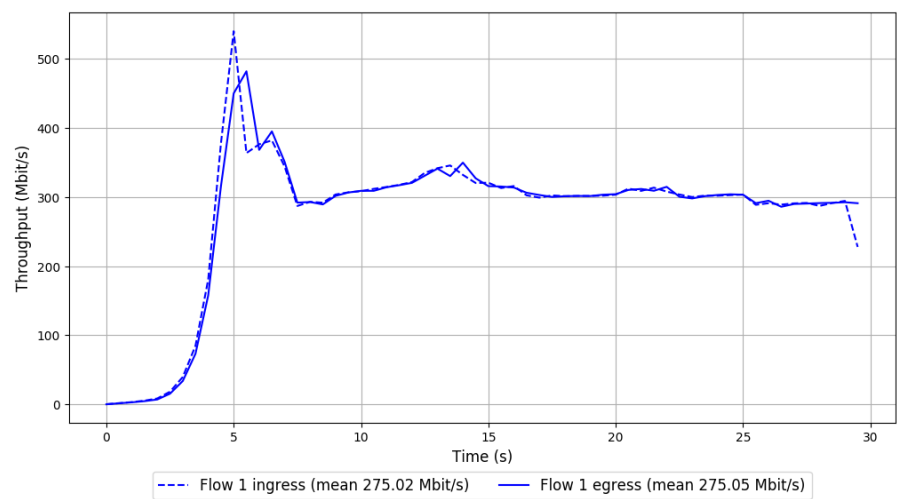
-- Flow 1:

Average throughput: 275.05 Mbit/s

95th percentile per-packet one-way delay: 129.403 ms

Loss rate: 0.00%

Run 6: Report of Vivace-latency — Data Link



Run 7: Statistics of Vivace-latency

Start at: 2018-03-13 00:04:13

End at: 2018-03-13 00:04:43

Below is generated by plot.py at 2018-03-13 03:19:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 264.41 Mbit/s

95th percentile per-packet one-way delay: 181.606 ms

Loss rate: 0.72%

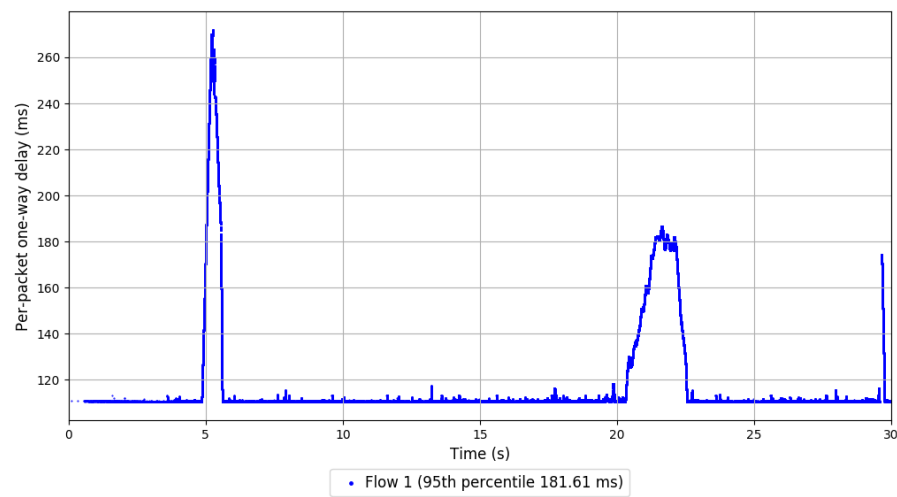
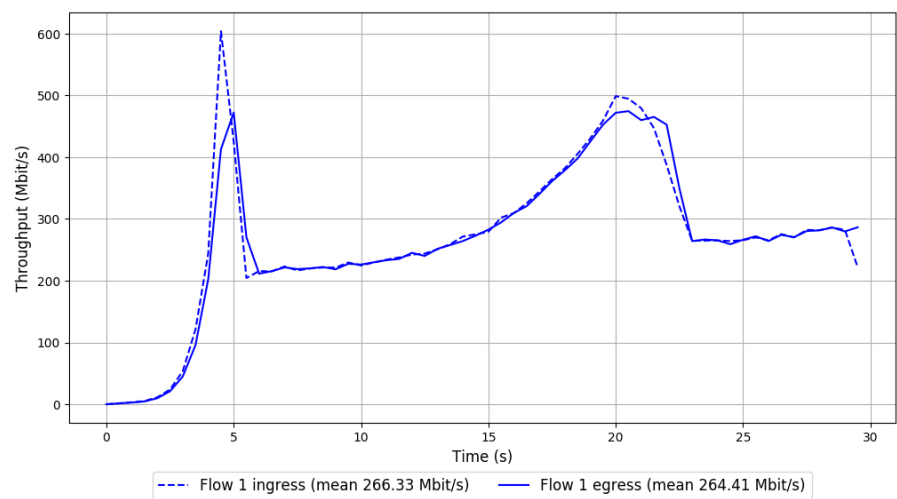
-- Flow 1:

Average throughput: 264.41 Mbit/s

95th percentile per-packet one-way delay: 181.606 ms

Loss rate: 0.72%

Run 7: Report of Vivace-latency — Data Link



Run 8: Statistics of Vivace-latency

Start at: 2018-03-13 00:19:31

End at: 2018-03-13 00:20:01

Below is generated by plot.py at 2018-03-13 03:19:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 273.98 Mbit/s

95th percentile per-packet one-way delay: 214.256 ms

Loss rate: 0.34%

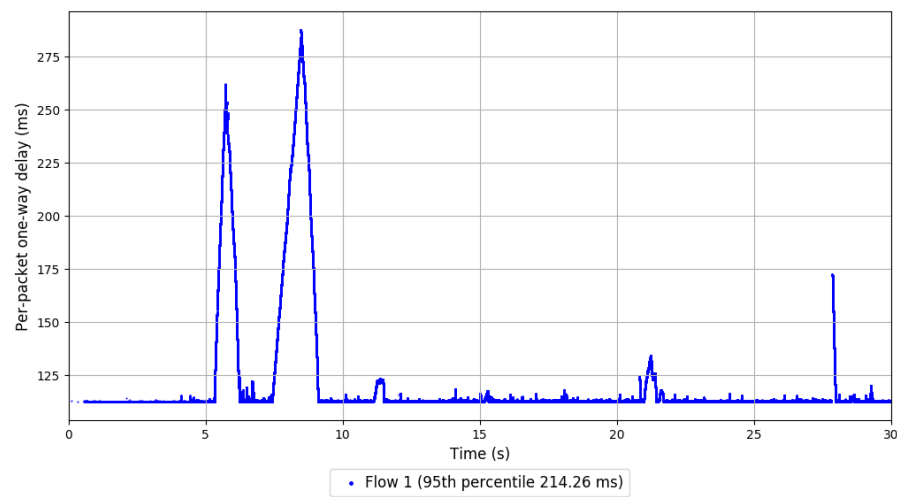
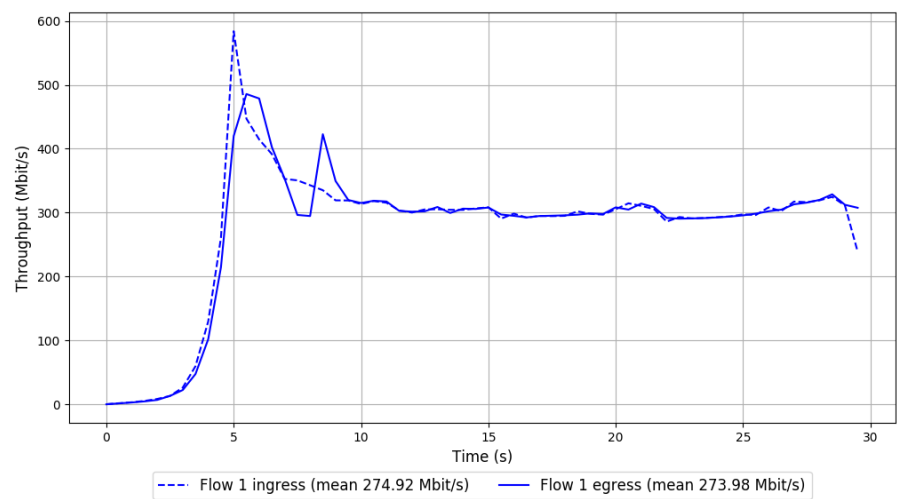
-- Flow 1:

Average throughput: 273.98 Mbit/s

95th percentile per-packet one-way delay: 214.256 ms

Loss rate: 0.34%

Run 8: Report of Vivace-latency — Data Link



Run 9: Statistics of Vivace-latency

Start at: 2018-03-13 00:34:37

End at: 2018-03-13 00:35:07

Below is generated by plot.py at 2018-03-13 03:21:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 342.86 Mbit/s

95th percentile per-packet one-way delay: 131.004 ms

Loss rate: 0.00%

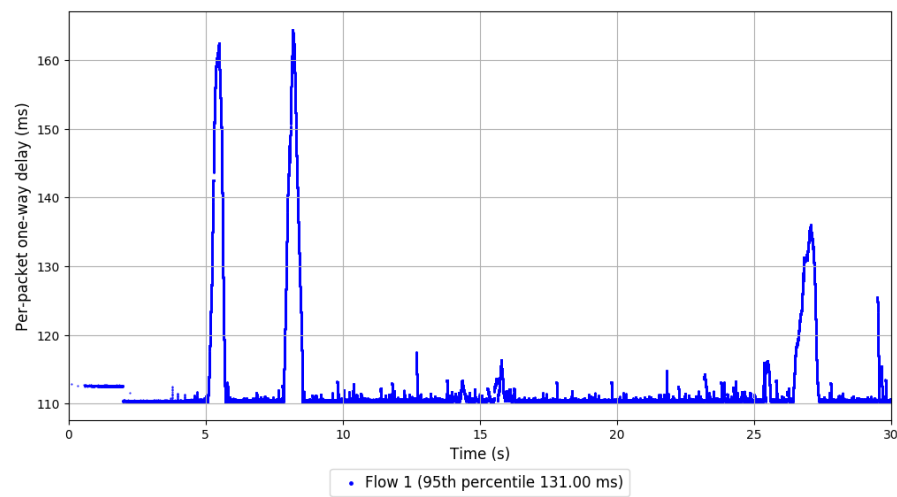
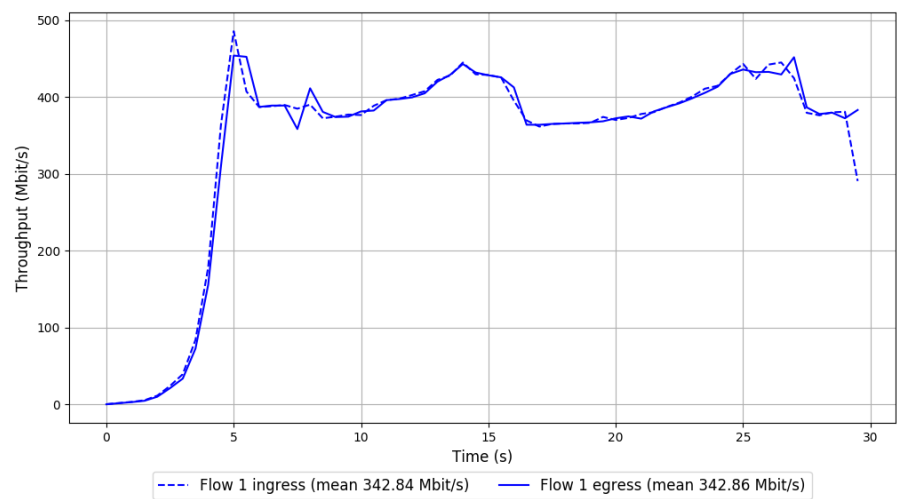
-- Flow 1:

Average throughput: 342.86 Mbit/s

95th percentile per-packet one-way delay: 131.004 ms

Loss rate: 0.00%

Run 9: Report of Vivace-latency — Data Link



Run 10: Statistics of Vivace-latency

Start at: 2018-03-13 00:49:49

End at: 2018-03-13 00:50:19

Below is generated by plot.py at 2018-03-13 03:21:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 308.91 Mbit/s

95th percentile per-packet one-way delay: 139.093 ms

Loss rate: 0.16%

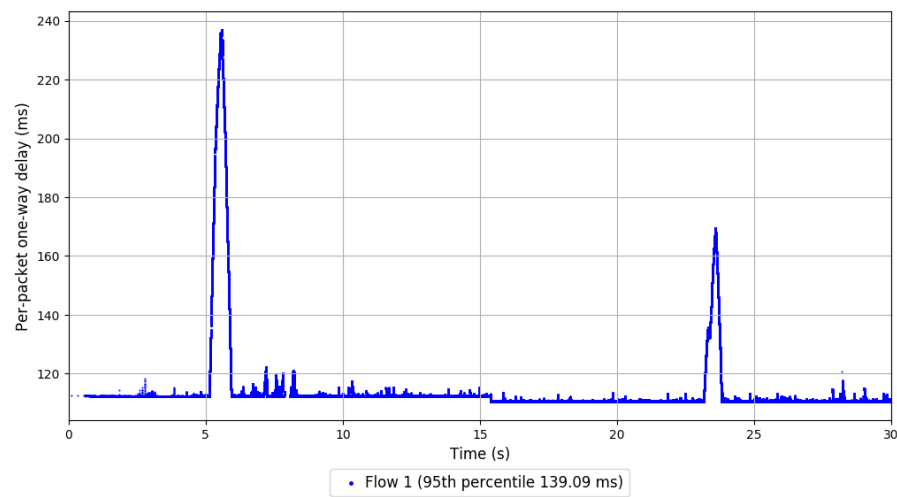
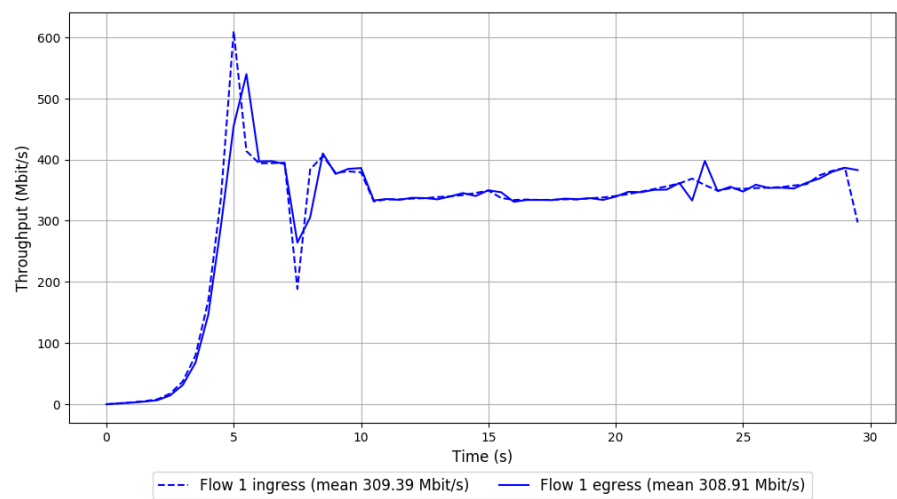
-- Flow 1:

Average throughput: 308.91 Mbit/s

95th percentile per-packet one-way delay: 139.093 ms

Loss rate: 0.16%

Run 10: Report of Vivace-latency — Data Link

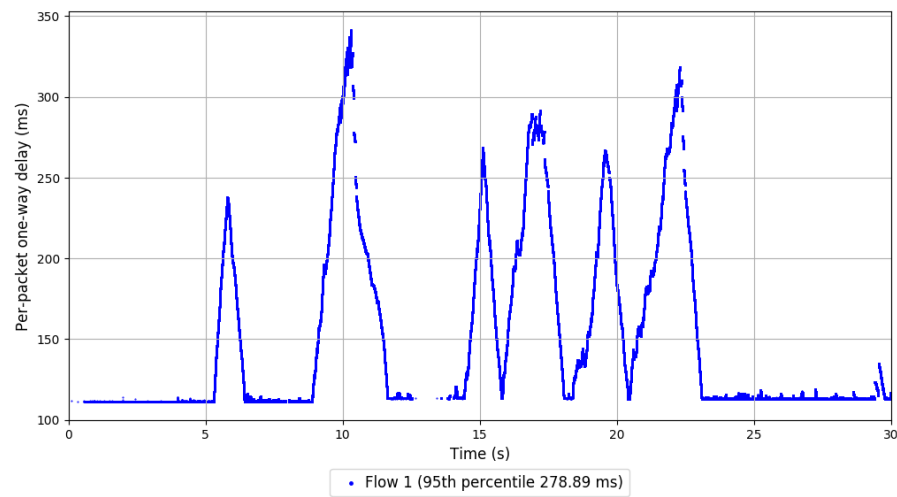
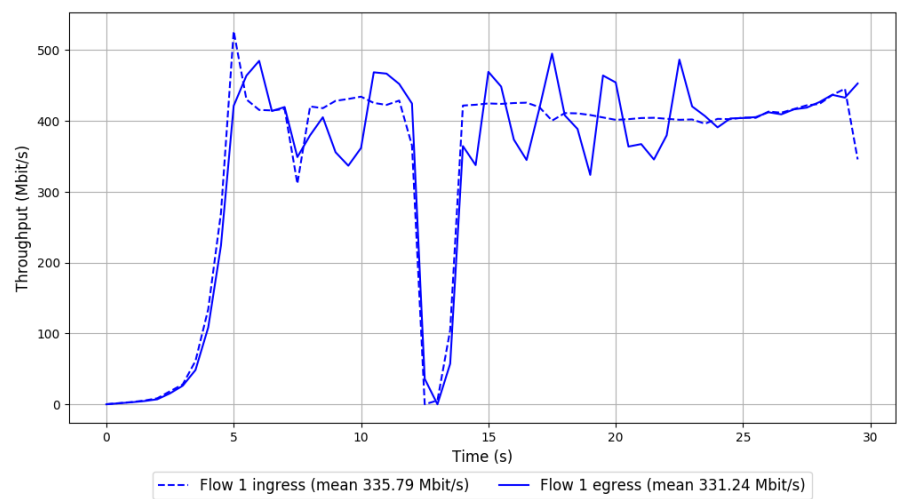


```
Run 1: Statistics of Vivace-loss

Start at: 2018-03-12 22:42:15
End at: 2018-03-12 22:42:45

# Below is generated by plot.py at 2018-03-13 03:22:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 331.24 Mbit/s
95th percentile per-packet one-way delay: 278.892 ms
Loss rate: 1.34%
-- Flow 1:
Average throughput: 331.24 Mbit/s
95th percentile per-packet one-way delay: 278.892 ms
Loss rate: 1.34%
```

Run 1: Report of Vivace-loss — Data Link



Run 2: Statistics of Vivace-loss

Start at: 2018-03-12 22:57:40

End at: 2018-03-12 22:58:10

Below is generated by plot.py at 2018-03-13 03:22:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 212.43 Mbit/s

95th percentile per-packet one-way delay: 255.540 ms

Loss rate: 2.74%

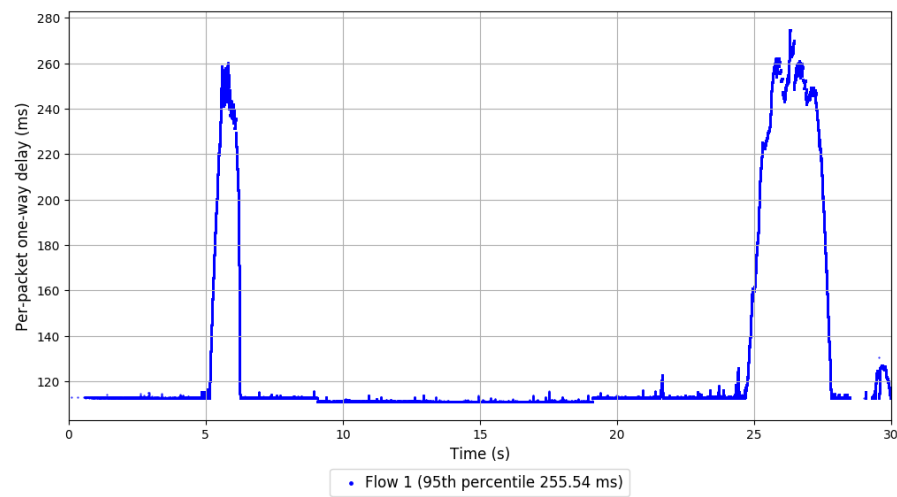
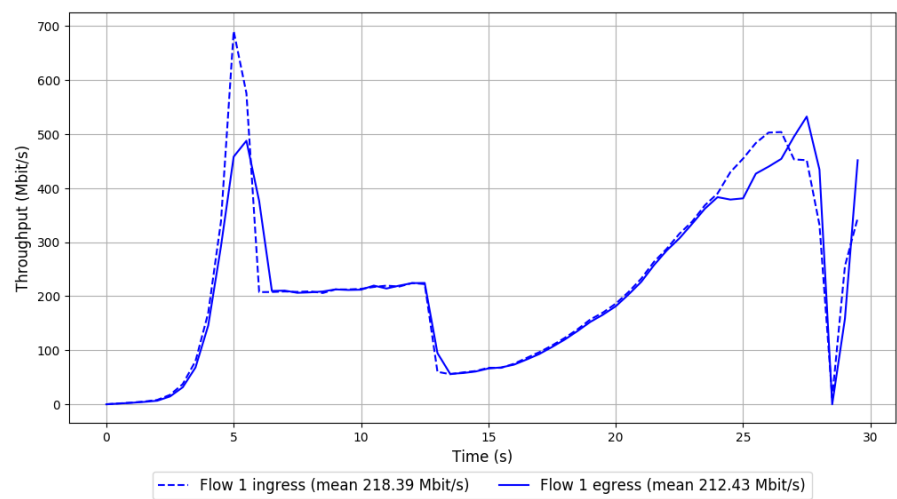
-- Flow 1:

Average throughput: 212.43 Mbit/s

95th percentile per-packet one-way delay: 255.540 ms

Loss rate: 2.74%

Run 2: Report of Vivace-loss — Data Link



Run 3: Statistics of Vivace-loss

Start at: 2018-03-12 23:12:40

End at: 2018-03-12 23:13:10

Below is generated by plot.py at 2018-03-13 03:23:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 284.42 Mbit/s

95th percentile per-packet one-way delay: 267.957 ms

Loss rate: 5.78%

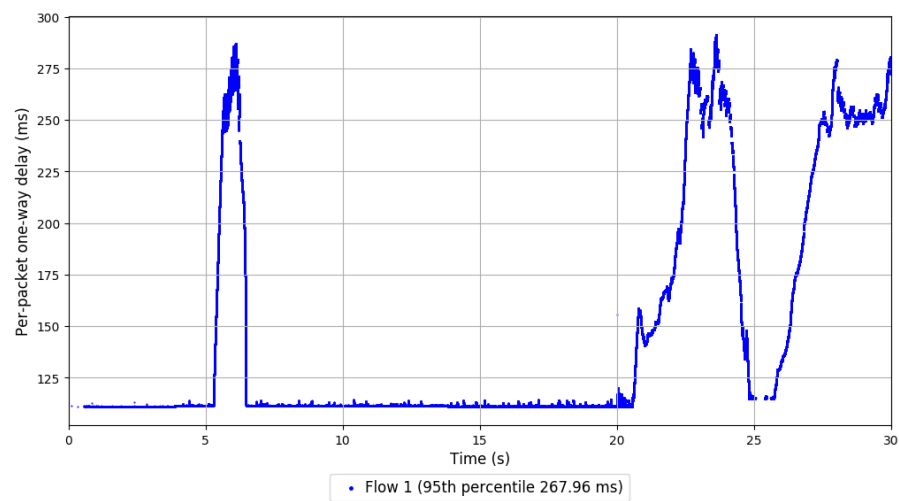
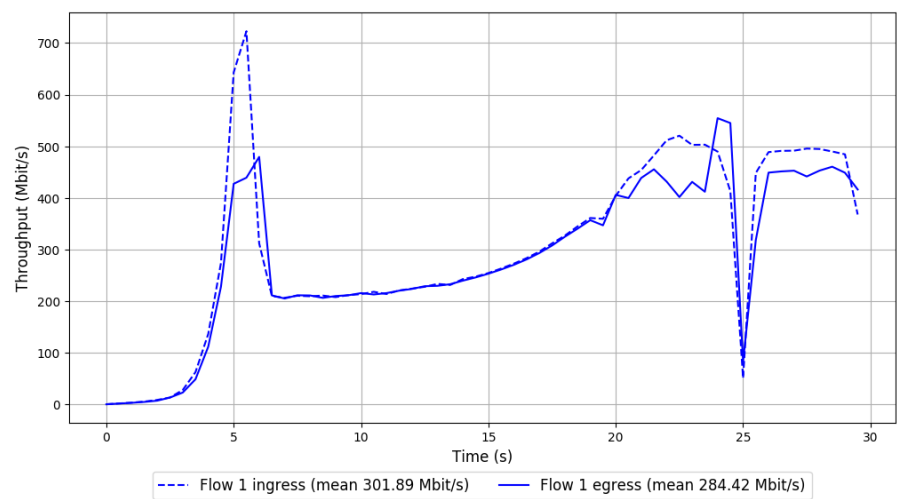
-- Flow 1:

Average throughput: 284.42 Mbit/s

95th percentile per-packet one-way delay: 267.957 ms

Loss rate: 5.78%

Run 3: Report of Vivace-loss — Data Link

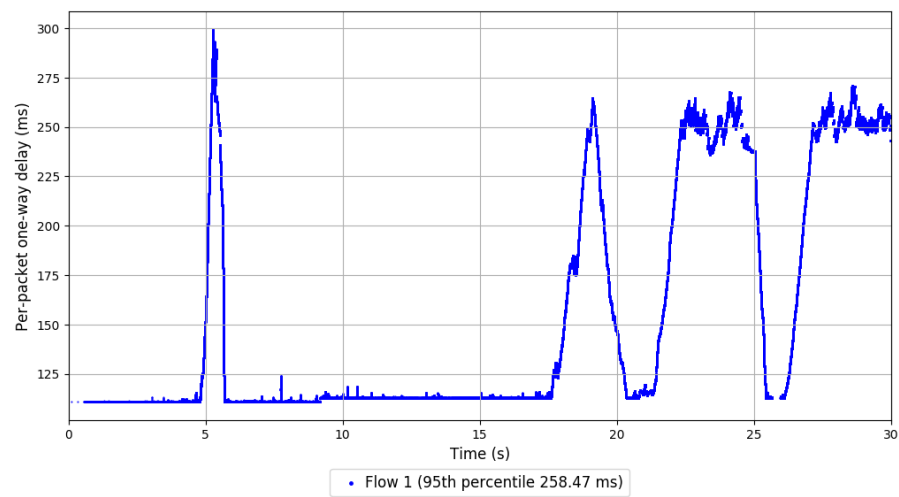
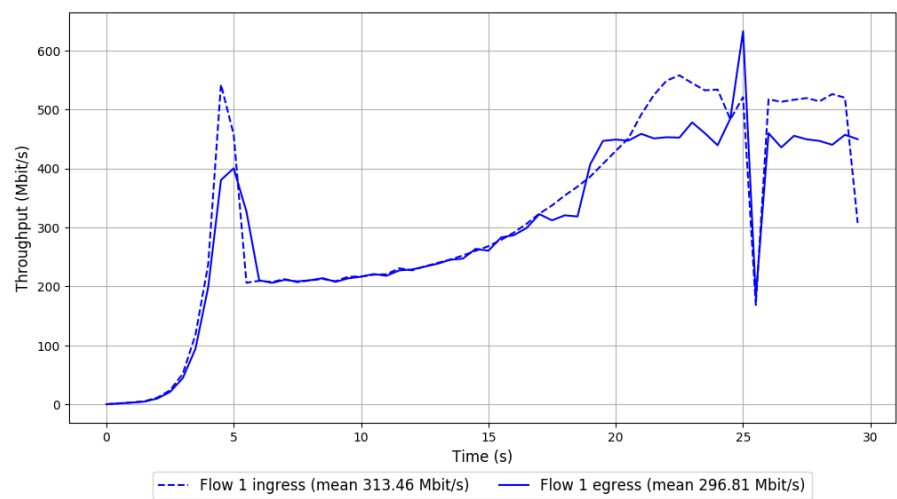


```
Run 4: Statistics of Vivace-loss

Start at: 2018-03-12 23:28:00
End at: 2018-03-12 23:28:30

# Below is generated by plot.py at 2018-03-13 03:24:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 296.81 Mbit/s
95th percentile per-packet one-way delay: 258.468 ms
Loss rate: 5.28%
-- Flow 1:
Average throughput: 296.81 Mbit/s
95th percentile per-packet one-way delay: 258.468 ms
Loss rate: 5.28%
```

Run 4: Report of Vivace-loss — Data Link



Run 5: Statistics of Vivace-loss

Start at: 2018-03-12 23:43:04

End at: 2018-03-12 23:43:34

Below is generated by plot.py at 2018-03-13 03:24:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 200.96 Mbit/s

95th percentile per-packet one-way delay: 257.310 ms

Loss rate: 6.69%

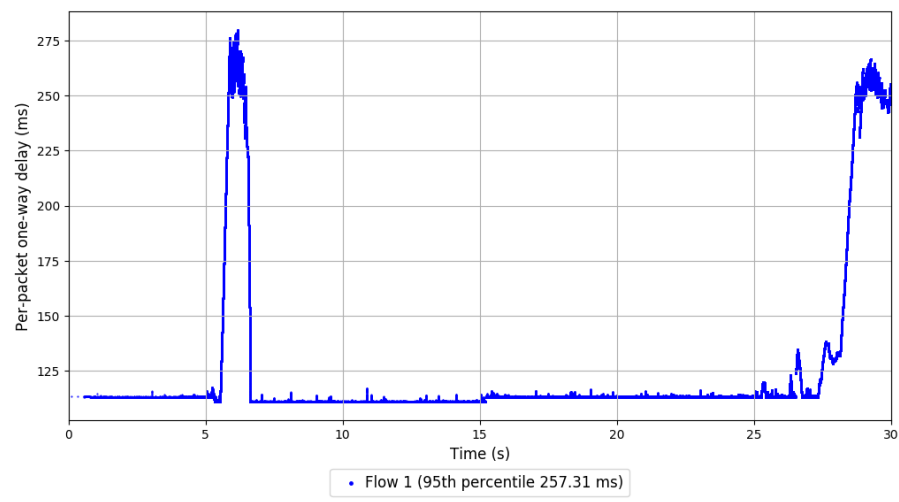
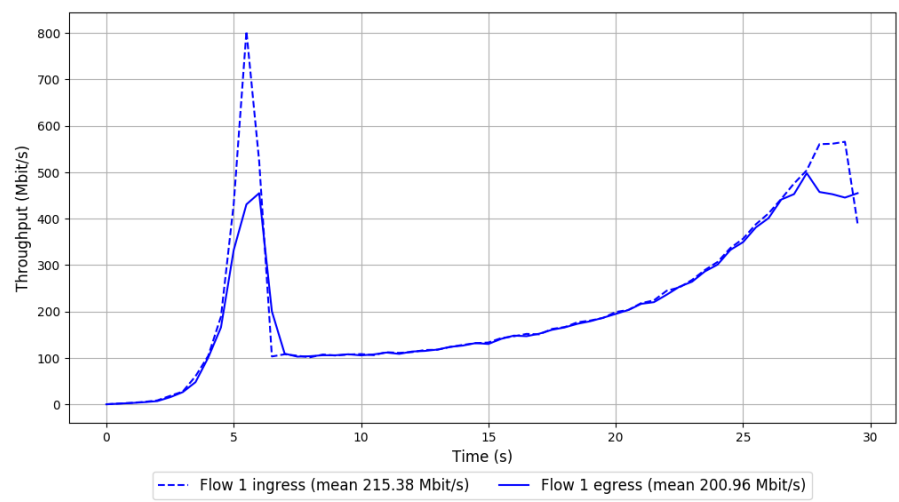
-- Flow 1:

Average throughput: 200.96 Mbit/s

95th percentile per-packet one-way delay: 257.310 ms

Loss rate: 6.69%

Run 5: Report of Vivace-loss — Data Link



Run 6: Statistics of Vivace-loss

Start at: 2018-03-12 23:58:21

End at: 2018-03-12 23:58:51

Below is generated by plot.py at 2018-03-13 03:24:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 268.69 Mbit/s

95th percentile per-packet one-way delay: 257.102 ms

Loss rate: 4.60%

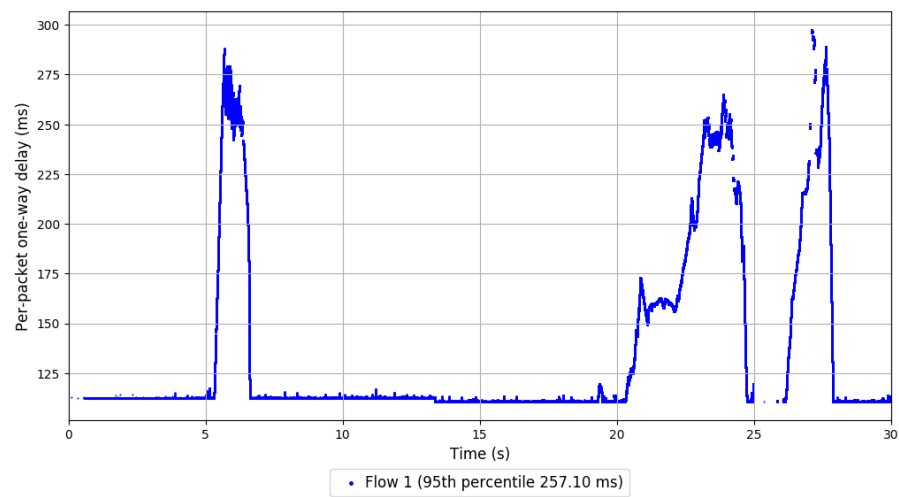
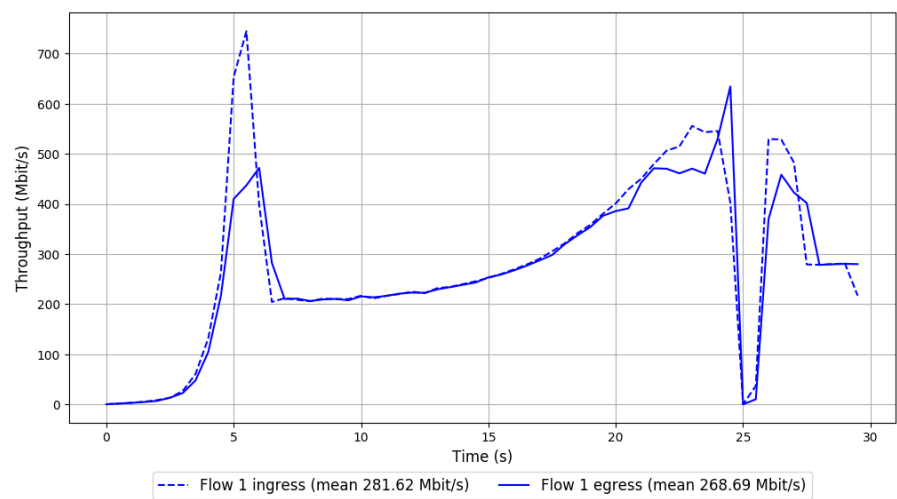
-- Flow 1:

Average throughput: 268.69 Mbit/s

95th percentile per-packet one-way delay: 257.102 ms

Loss rate: 4.60%

Run 6: Report of Vivace-loss — Data Link



Run 7: Statistics of Vivace-loss

Start at: 2018-03-13 00:13:39

End at: 2018-03-13 00:14:09

Below is generated by plot.py at 2018-03-13 03:25:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 256.27 Mbit/s

95th percentile per-packet one-way delay: 282.268 ms

Loss rate: 4.04%

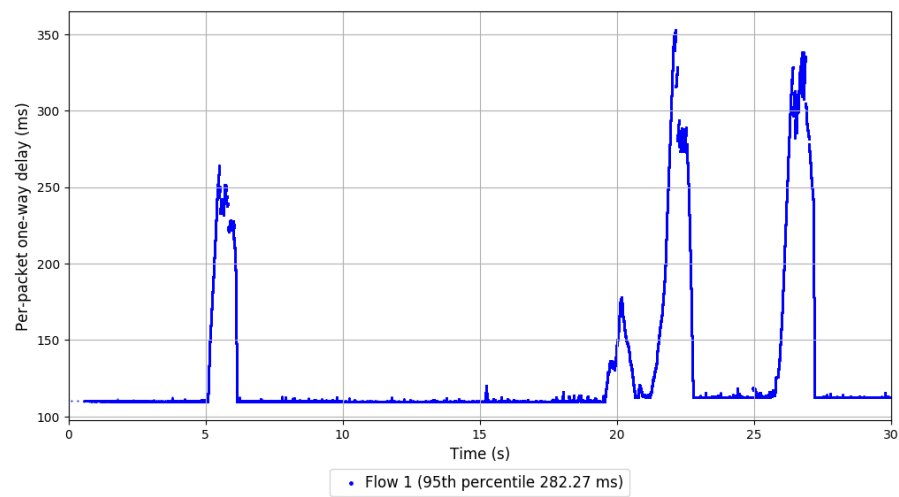
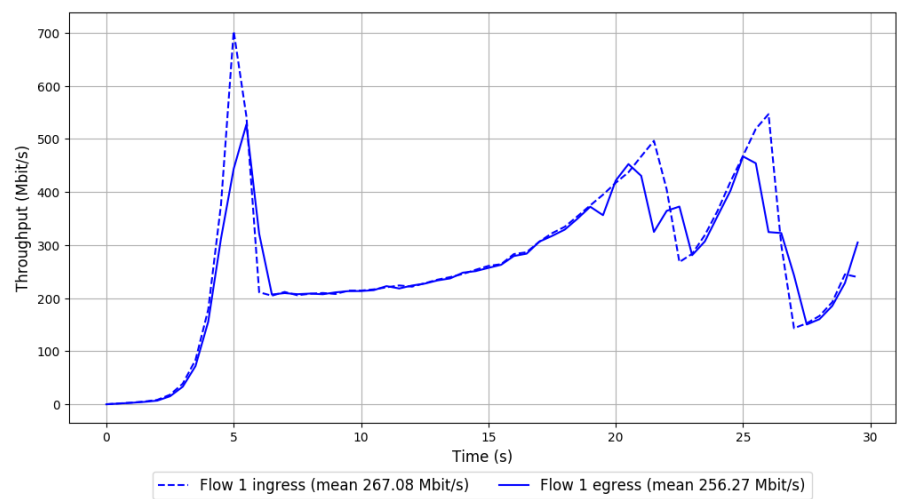
-- Flow 1:

Average throughput: 256.27 Mbit/s

95th percentile per-packet one-way delay: 282.268 ms

Loss rate: 4.04%

Run 7: Report of Vivace-loss — Data Link



Run 8: Statistics of Vivace-loss

Start at: 2018-03-13 00:29:01

End at: 2018-03-13 00:29:31

Below is generated by plot.py at 2018-03-13 03:25:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 205.11 Mbit/s

95th percentile per-packet one-way delay: 256.130 ms

Loss rate: 4.08%

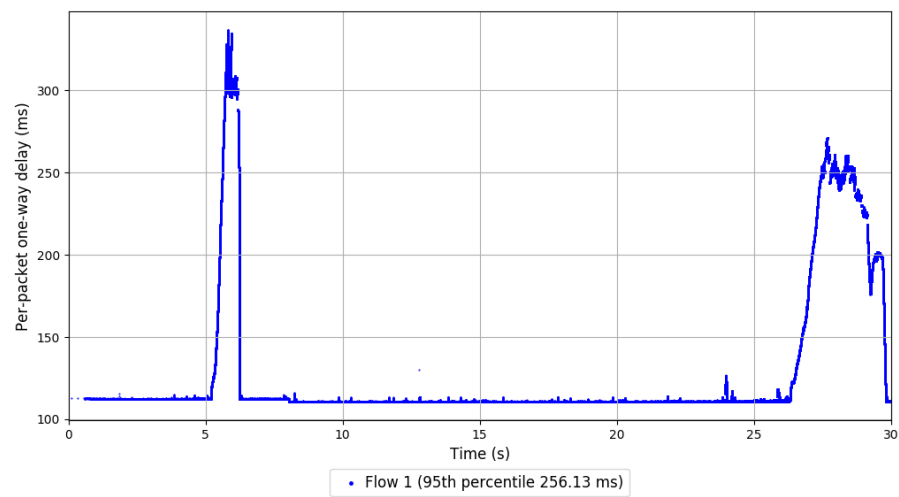
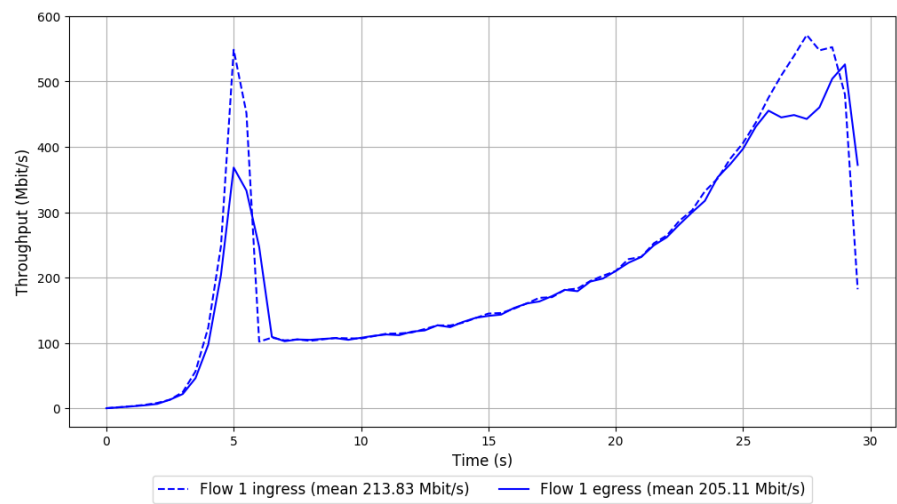
-- Flow 1:

Average throughput: 205.11 Mbit/s

95th percentile per-packet one-way delay: 256.130 ms

Loss rate: 4.08%

Run 8: Report of Vivace-loss — Data Link



Run 9: Statistics of Vivace-loss

Start at: 2018-03-13 00:44:00

End at: 2018-03-13 00:44:30

Below is generated by plot.py at 2018-03-13 03:26:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 282.49 Mbit/s

95th percentile per-packet one-way delay: 259.884 ms

Loss rate: 4.16%

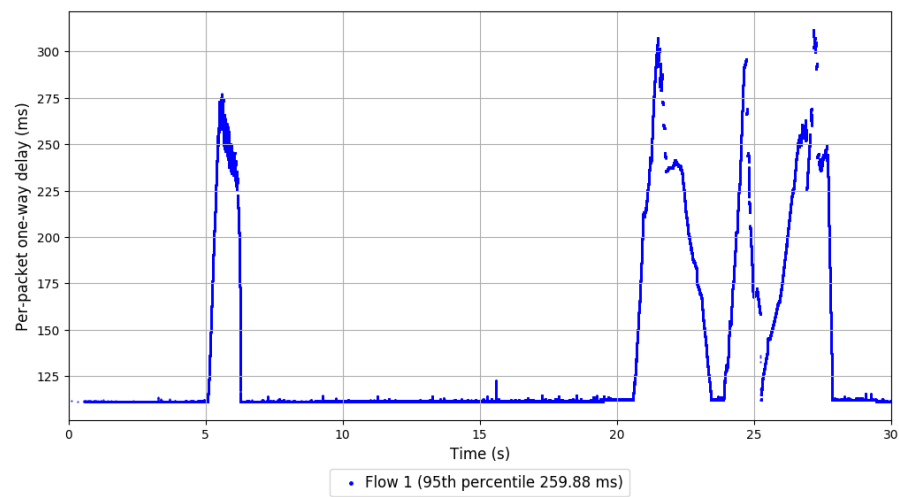
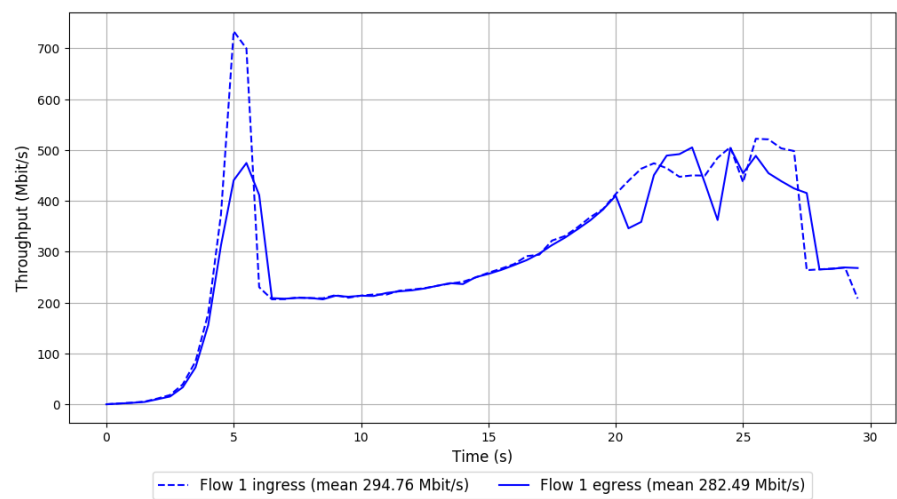
-- Flow 1:

Average throughput: 282.49 Mbit/s

95th percentile per-packet one-way delay: 259.884 ms

Loss rate: 4.16%

Run 9: Report of Vivace-loss — Data Link



Run 10: Statistics of Vivace-loss

Start at: 2018-03-13 00:59:38

End at: 2018-03-13 01:00:08

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 358.84 Mbit/s

95th percentile per-packet one-way delay: 255.129 ms

Loss rate: 2.36%

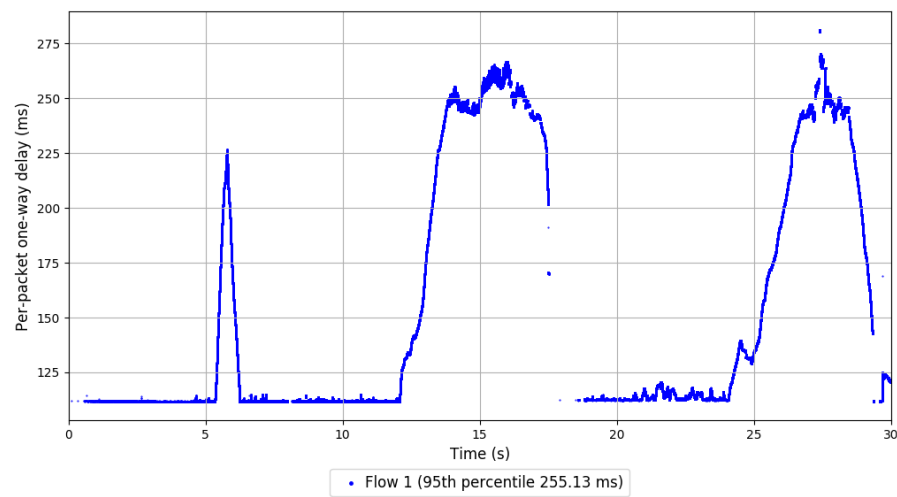
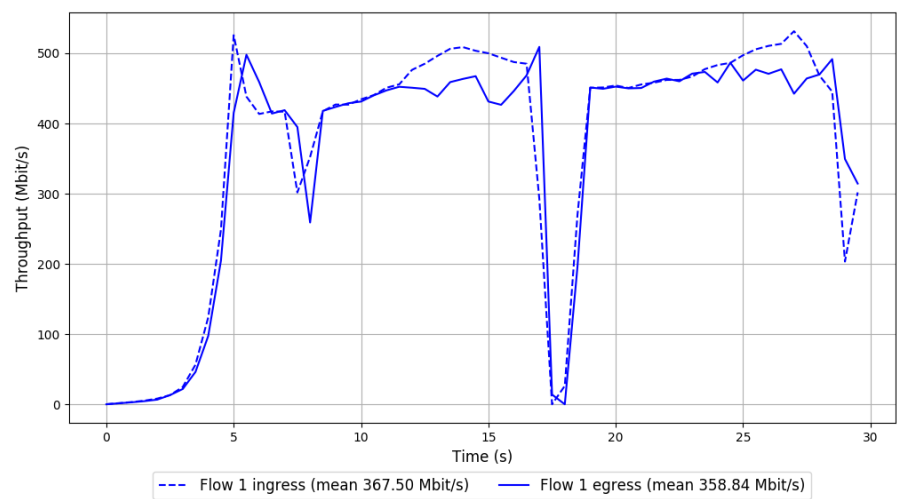
-- Flow 1:

Average throughput: 358.84 Mbit/s

95th percentile per-packet one-way delay: 255.129 ms

Loss rate: 2.36%

Run 10: Report of Vivace-loss — Data Link

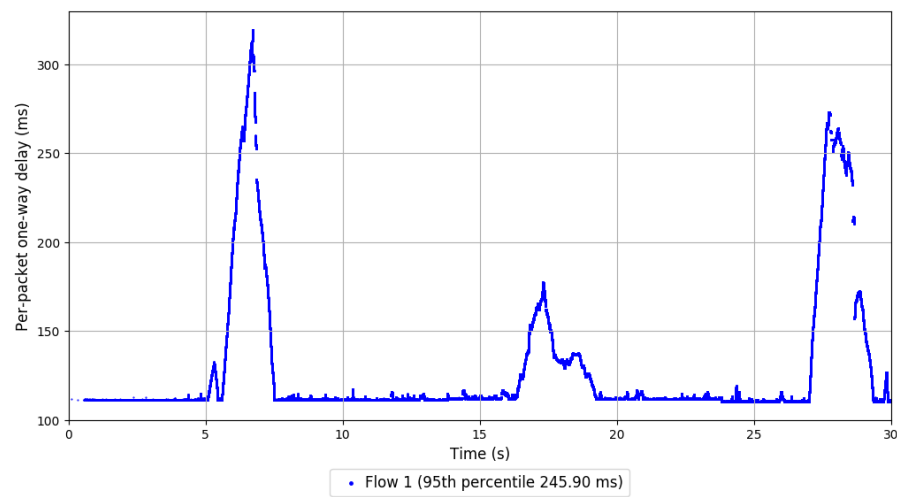
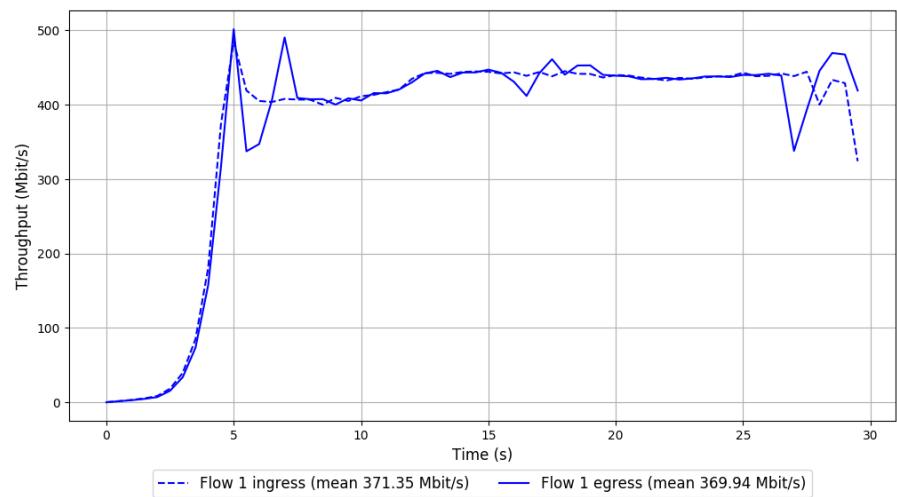


```
Run 1: Statistics of Vivace-LTE

Start at: 2018-03-12 22:44:00
End at: 2018-03-12 22:44:30

# Below is generated by plot.py at 2018-03-13 03:29:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 369.94 Mbit/s
95th percentile per-packet one-way delay: 245.899 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 369.94 Mbit/s
95th percentile per-packet one-way delay: 245.899 ms
Loss rate: 0.38%
```

Run 1: Report of Vivace-LTE — Data Link



Run 2: Statistics of Vivace-LTE

Start at: 2018-03-12 22:59:17

End at: 2018-03-12 22:59:47

Below is generated by plot.py at 2018-03-13 03:29:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 265.96 Mbit/s

95th percentile per-packet one-way delay: 157.065 ms

Loss rate: 0.00%

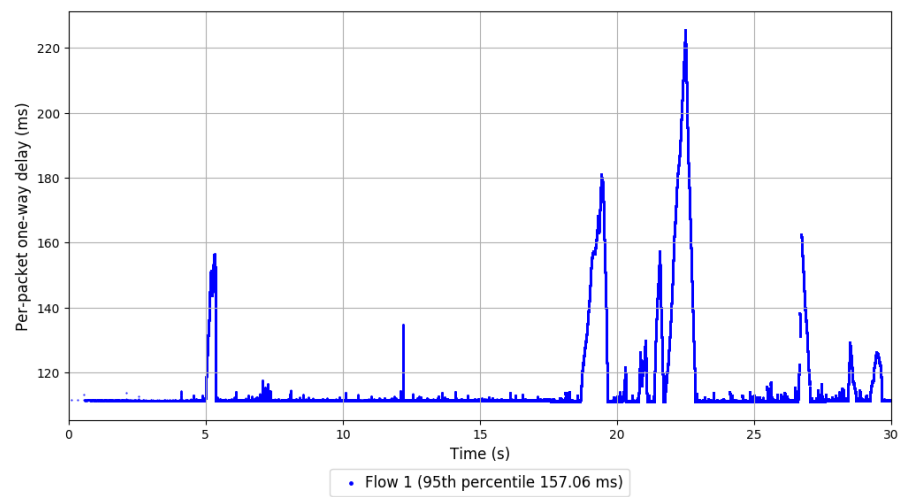
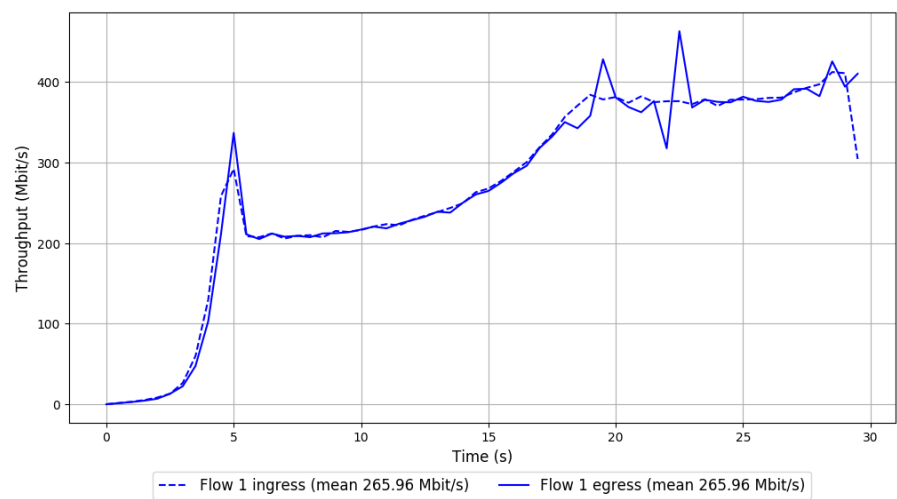
-- Flow 1:

Average throughput: 265.96 Mbit/s

95th percentile per-packet one-way delay: 157.065 ms

Loss rate: 0.00%

Run 2: Report of Vivace-LTE — Data Link



Run 3: Statistics of Vivace-LTE

Start at: 2018-03-12 23:14:23

End at: 2018-03-12 23:14:53

Below is generated by plot.py at 2018-03-13 03:30:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 342.52 Mbit/s

95th percentile per-packet one-way delay: 237.676 ms

Loss rate: 0.85%

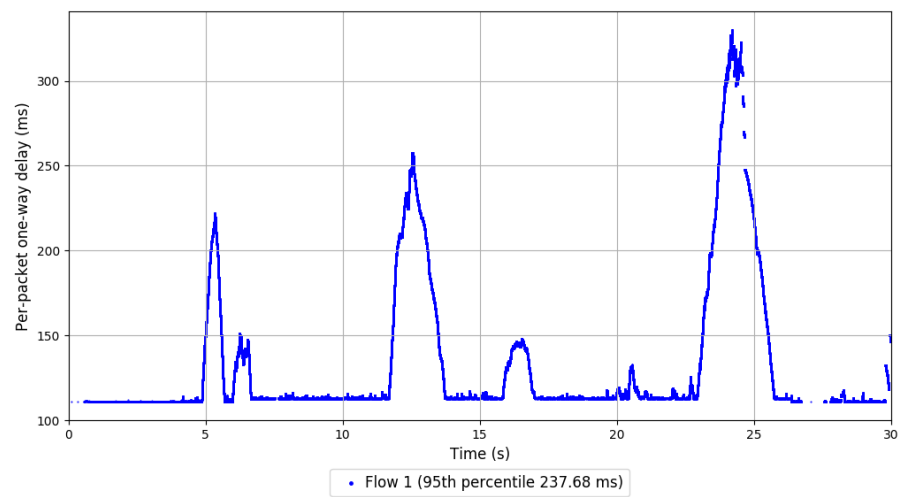
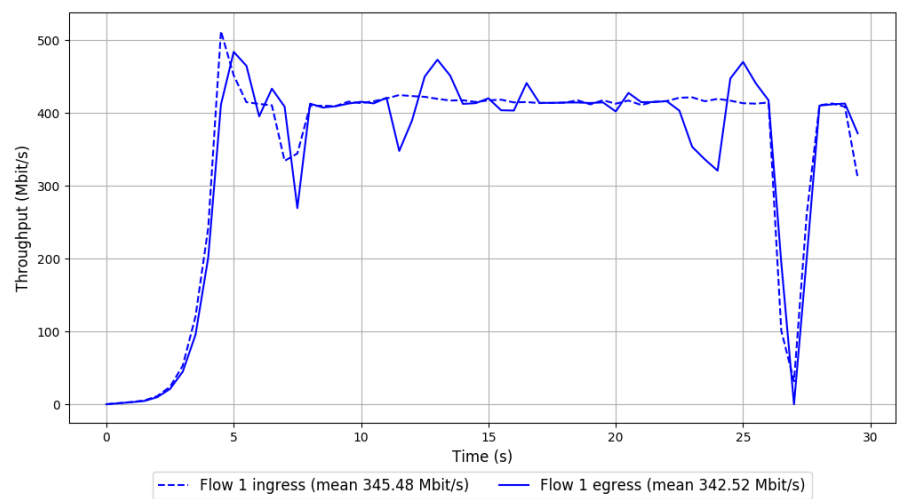
-- Flow 1:

Average throughput: 342.52 Mbit/s

95th percentile per-packet one-way delay: 237.676 ms

Loss rate: 0.85%

Run 3: Report of Vivace-LTE — Data Link



Run 4: Statistics of Vivace-LTE

Start at: 2018-03-12 23:29:43

End at: 2018-03-12 23:30:13

Below is generated by plot.py at 2018-03-13 03:30:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 184.50 Mbit/s

95th percentile per-packet one-way delay: 187.857 ms

Loss rate: 0.08%

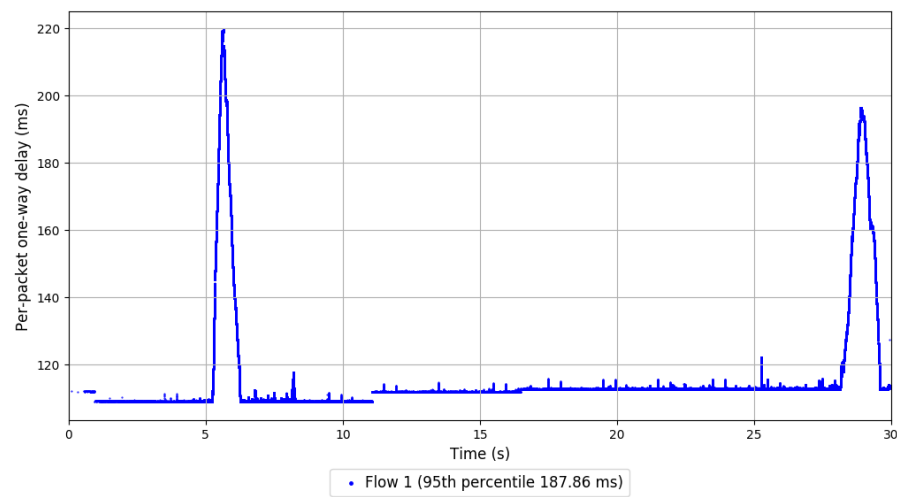
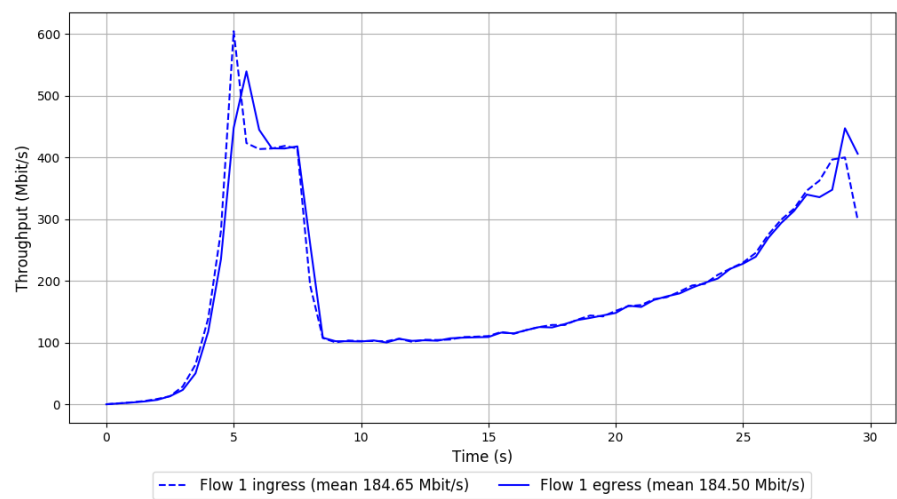
-- Flow 1:

Average throughput: 184.50 Mbit/s

95th percentile per-packet one-way delay: 187.857 ms

Loss rate: 0.08%

Run 4: Report of Vivace-LTE — Data Link



Run 5: Statistics of Vivace-LTE

Start at: 2018-03-12 23:44:40

End at: 2018-03-12 23:45:10

Below is generated by plot.py at 2018-03-13 03:30:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 296.61 Mbit/s

95th percentile per-packet one-way delay: 297.304 ms

Loss rate: 1.50%

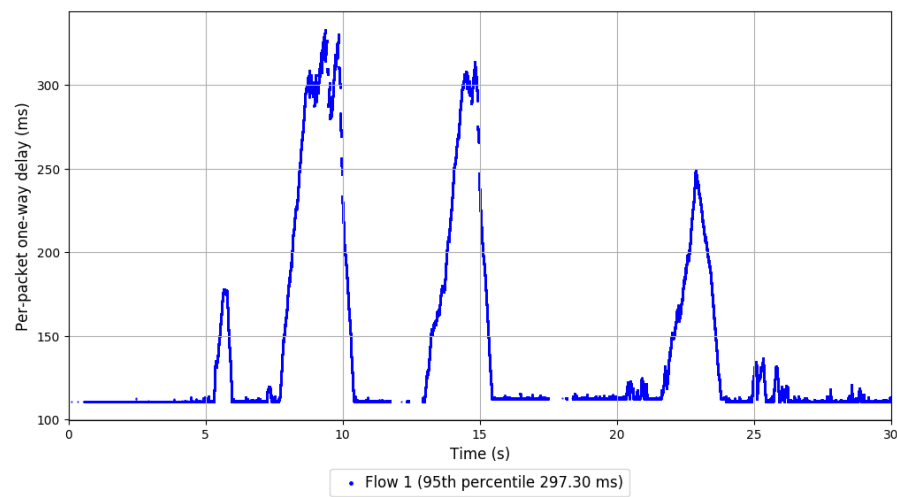
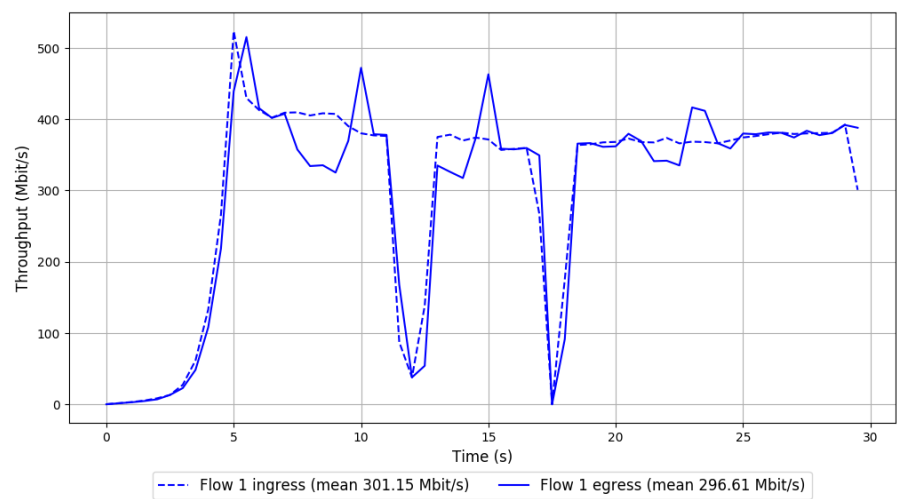
-- Flow 1:

Average throughput: 296.61 Mbit/s

95th percentile per-packet one-way delay: 297.304 ms

Loss rate: 1.50%

Run 5: Report of Vivace-LTE — Data Link



Run 6: Statistics of Vivace-LTE

Start at: 2018-03-13 00:00:02

End at: 2018-03-13 00:00:32

Below is generated by plot.py at 2018-03-13 03:31:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 360.01 Mbit/s

95th percentile per-packet one-way delay: 188.101 ms

Loss rate: 0.23%

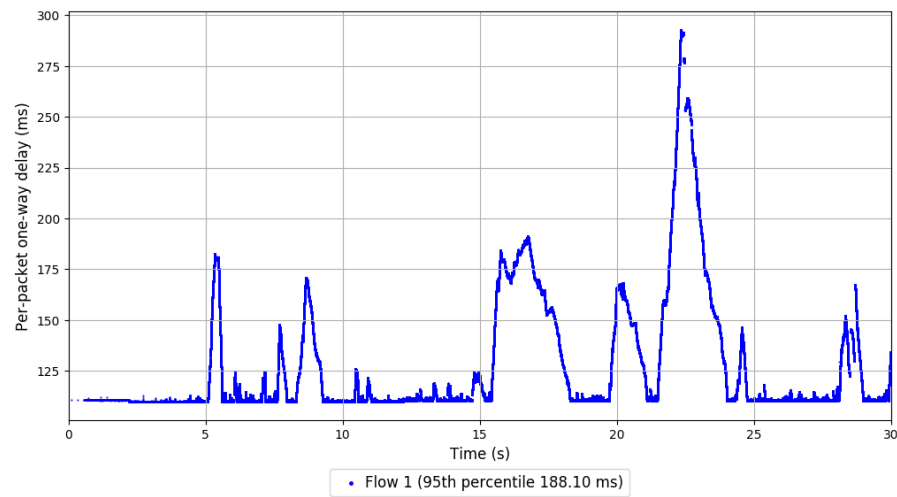
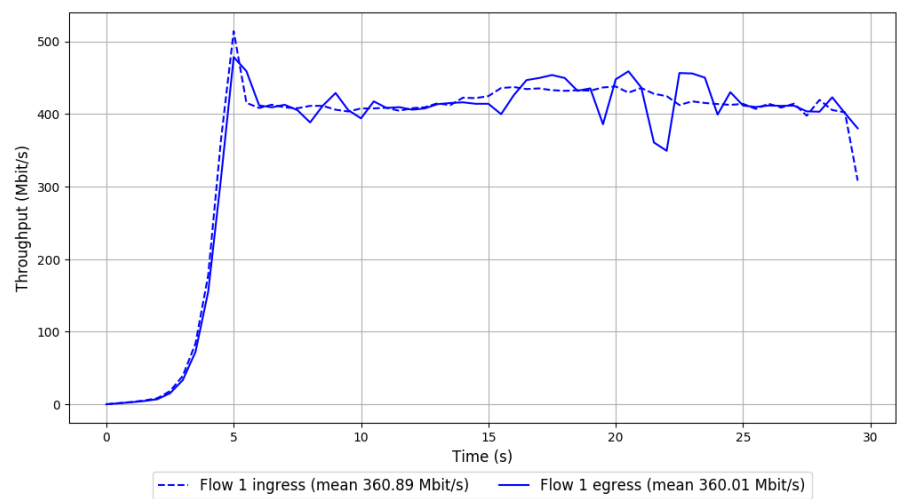
-- Flow 1:

Average throughput: 360.01 Mbit/s

95th percentile per-packet one-way delay: 188.101 ms

Loss rate: 0.23%

Run 6: Report of Vivace-LTE — Data Link



Run 7: Statistics of Vivace-LTE

Start at: 2018-03-13 00:15:19

End at: 2018-03-13 00:15:49

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 364.32 Mbit/s

95th percentile per-packet one-way delay: 127.366 ms

Loss rate: 0.00%

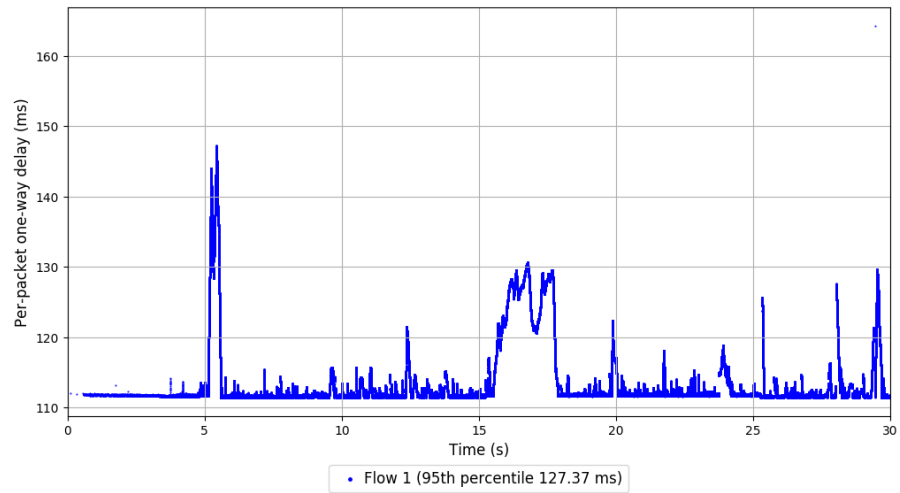
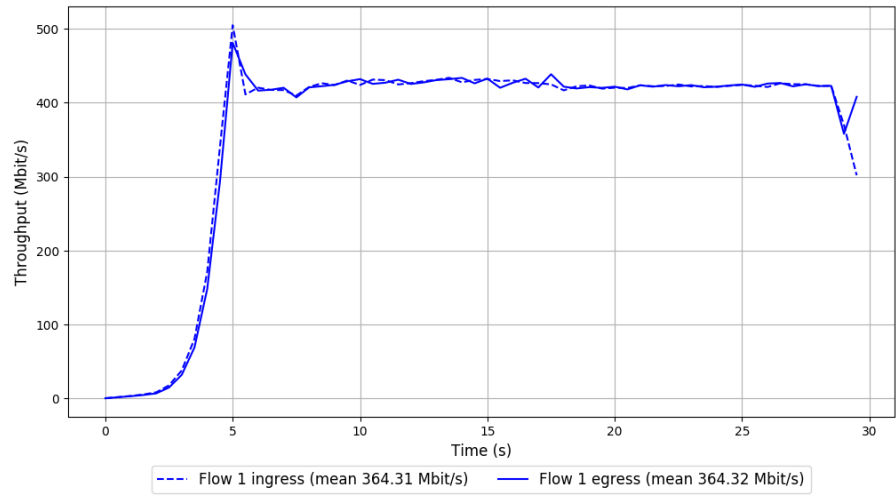
-- Flow 1:

Average throughput: 364.32 Mbit/s

95th percentile per-packet one-way delay: 127.366 ms

Loss rate: 0.00%

Run 7: Report of Vivace-LTE — Data Link



Run 8: Statistics of Vivace-LTE

Start at: 2018-03-13 00:30:38

End at: 2018-03-13 00:31:08

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 176.45 Mbit/s

95th percentile per-packet one-way delay: 229.584 ms

Loss rate: 2.48%

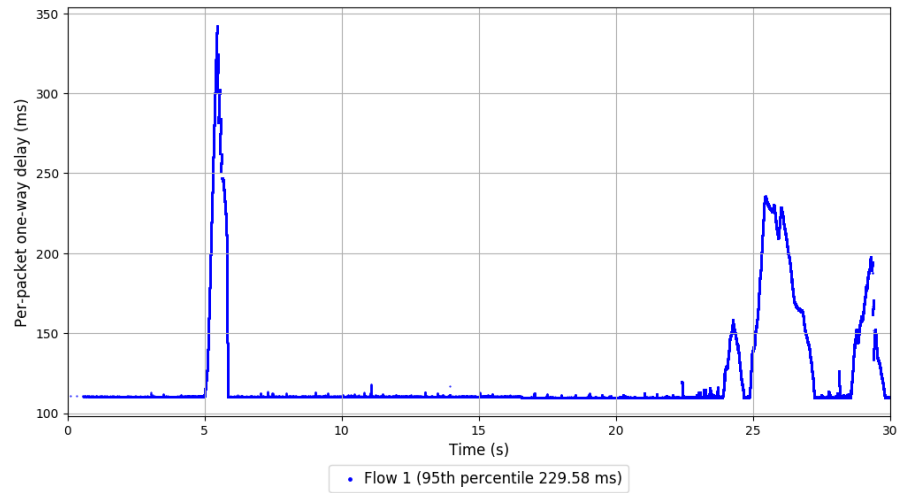
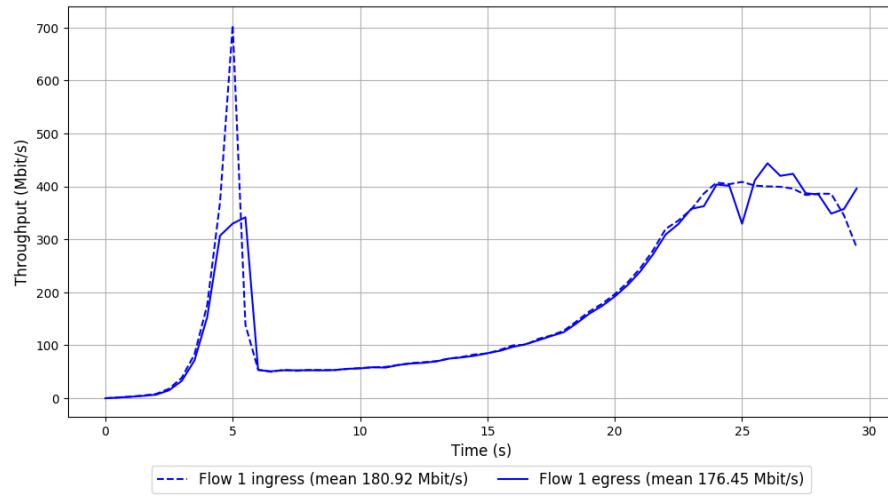
-- Flow 1:

Average throughput: 176.45 Mbit/s

95th percentile per-packet one-way delay: 229.584 ms

Loss rate: 2.48%

Run 8: Report of Vivace-LTE — Data Link



Run 9: Statistics of Vivace-LTE

Start at: 2018-03-13 00:45:42

End at: 2018-03-13 00:46:12

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 284.14 Mbit/s

95th percentile per-packet one-way delay: 217.571 ms

Loss rate: 0.63%

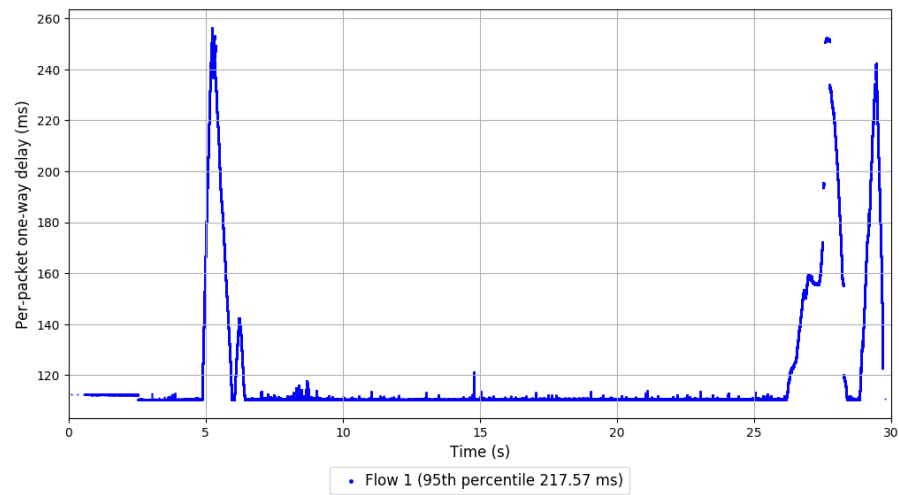
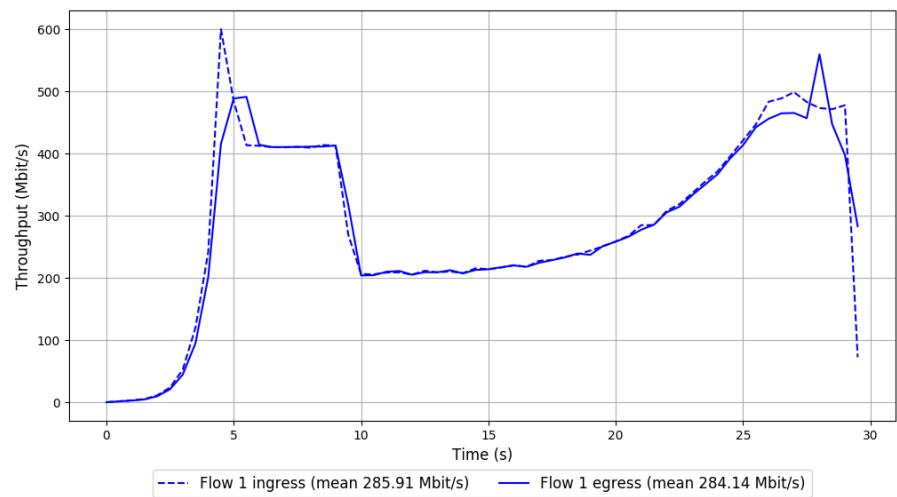
-- Flow 1:

Average throughput: 284.14 Mbit/s

95th percentile per-packet one-way delay: 217.571 ms

Loss rate: 0.63%

Run 9: Report of Vivace-LTE — Data Link



Run 10: Statistics of Vivace-LTE

Start at: 2018-03-13 01:01:26

End at: 2018-03-13 01:01:56

Below is generated by plot.py at 2018-03-13 03:31:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 360.61 Mbit/s

95th percentile per-packet one-way delay: 206.938 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 360.61 Mbit/s

95th percentile per-packet one-way delay: 206.938 ms

Loss rate: 0.09%

Run 10: Report of Vivace-LTE — Data Link

