

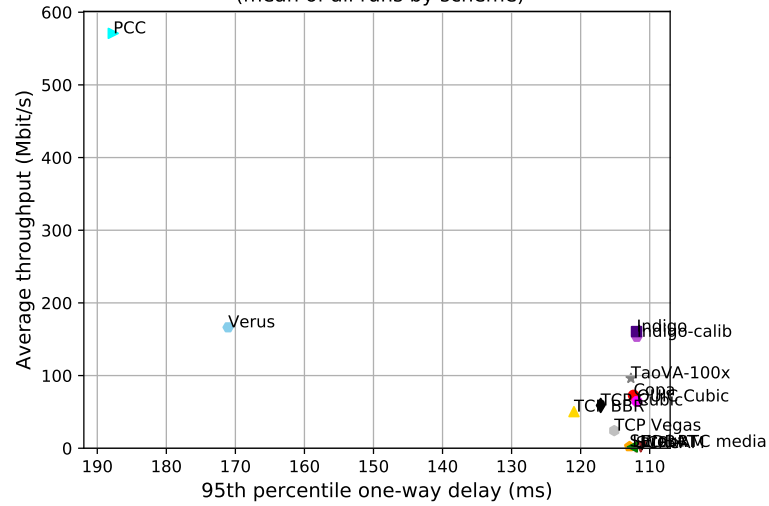
Pantheon Report

Generated at 2017-12-11 12:08:38 (UTC).
Data path: GCE London Ethernet (*local*) → GCE Tokyo Ethernet (*remote*).
Repeated the test of 14 congestion control schemes 10 times.
Each test lasted for 30 seconds running 1 flow.
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo_fast**).

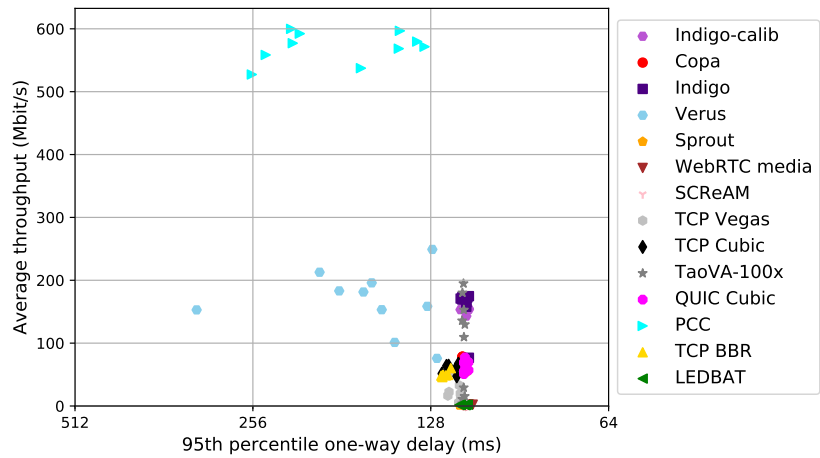
Git summary:

```
branch: indigos @ e3a57ad5ac5cfcaca0e3f983c8dd4cc3509e0262
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/genericCC @ b5b7c38e8391001927dc41c6cfa2627d03dde737
third_party/indigo @ b19f3730105f9aa95452552af924e3719b03cc55
third_party/indigo-cellular @ aee99e8eb842cb053f8c9a80e28cd256a930bbc2
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/indigo-no-cwnd @ 3e58442c04028a11d7b02456e137604633ba2d6c
third_party/indigo-no-delivery-rate @ 57caa40858b964906edff4876d5a7e5bfff666c5
third_party/indigo-no-queuing-delay @ 03455460fd1a8ffbdad86fab936fdca204b80db
third_party/indigo-no-send-rate @ b39dfa6b2c5f19cb7cd89626cb4f5bb81f9fecda
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ baf443516dea3eeddeccaf9b916cc313273ca4f4
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaaeb30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

test from 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



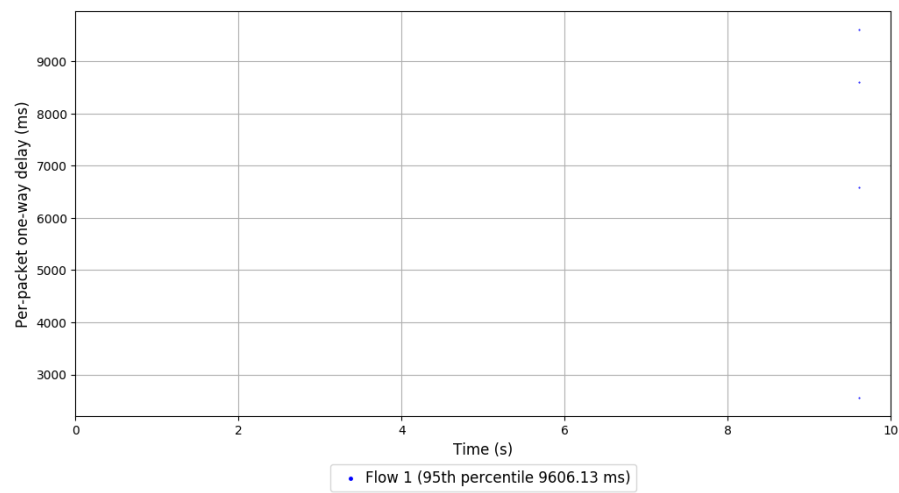
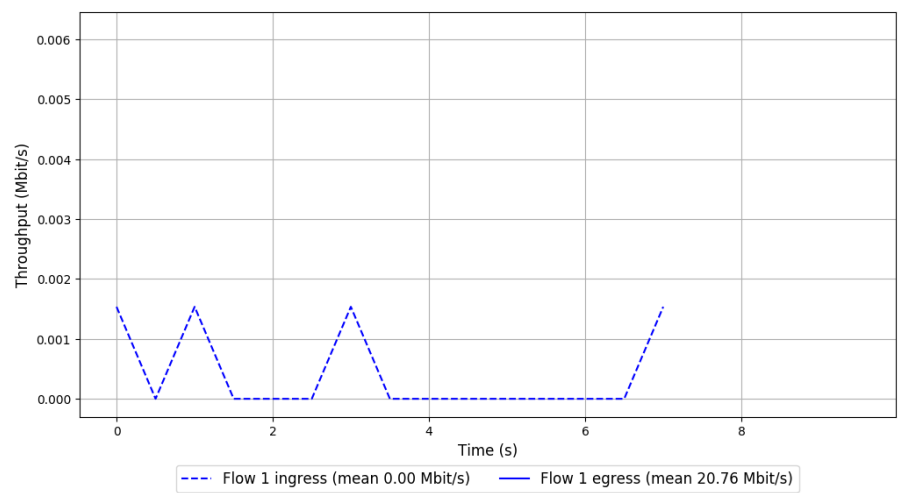
scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	6	50.39	120.97	0.07
TCP Cubic	9	58.89	117.10	0.01
LEDBAT	8	1.72	112.52	0.12
PCC	10	570.90	187.68	1.49
QUIC Cubic	9	64.41	111.85	0.00
SCReAM	10	0.22	111.99	0.01
WebRTC media	10	1.84	111.29	0.01
Sprout	10	2.42	112.93	0.17
TaoVA-100x	10	96.22	112.73	0.00
TCP Vegas	10	24.24	115.14	0.06
Verus	10	166.38	171.06	1.24
Copa	10	72.74	112.34	0.00
Indigo	10	160.53	111.91	0.02
Indigo-calib	10	153.32	111.86	0.00

Run 1: Statistics of TCP BBR

Start at: 2017-12-11 09:19:33

End at: 2017-12-11 09:20:03

Run 1: Report of TCP BBR — Data Link

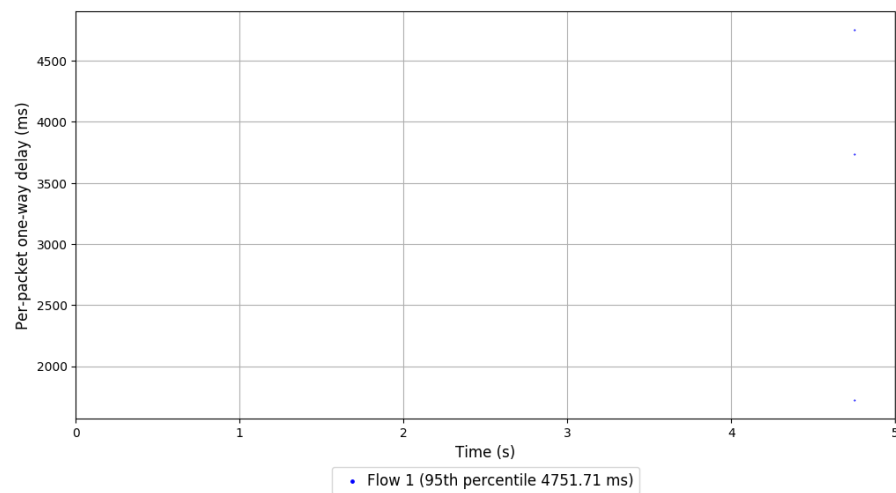
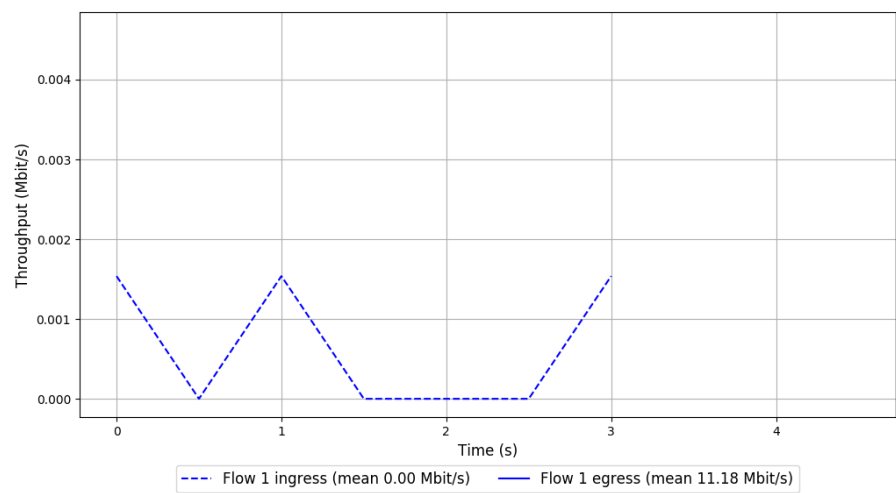


Run 2: Statistics of TCP BBR

Start at: 2017-12-11 09:30:46

End at: 2017-12-11 09:31:16

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2017-12-11 09:41:51

End at: 2017-12-11 09:42:21

Below is generated by plot.py at 2017-12-11 11:36:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 49.39 Mbit/s

95th percentile per-packet one-way delay: 119.625 ms

Loss rate: 0.01%

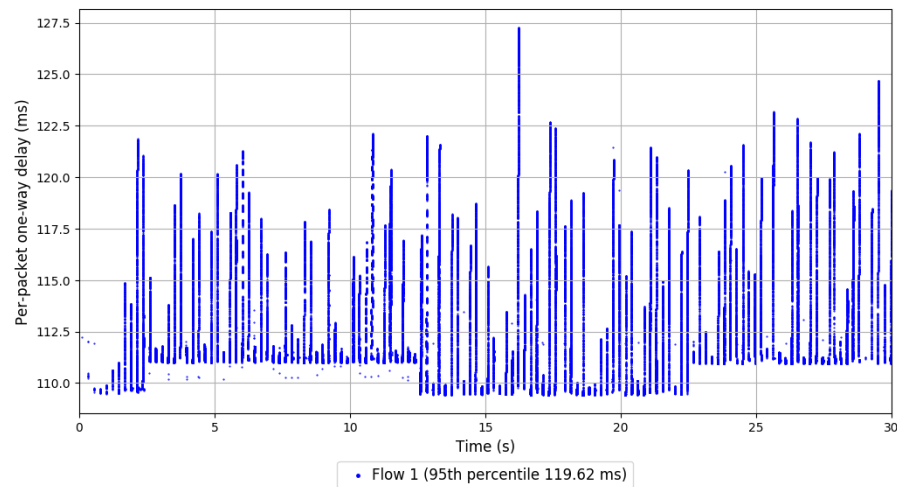
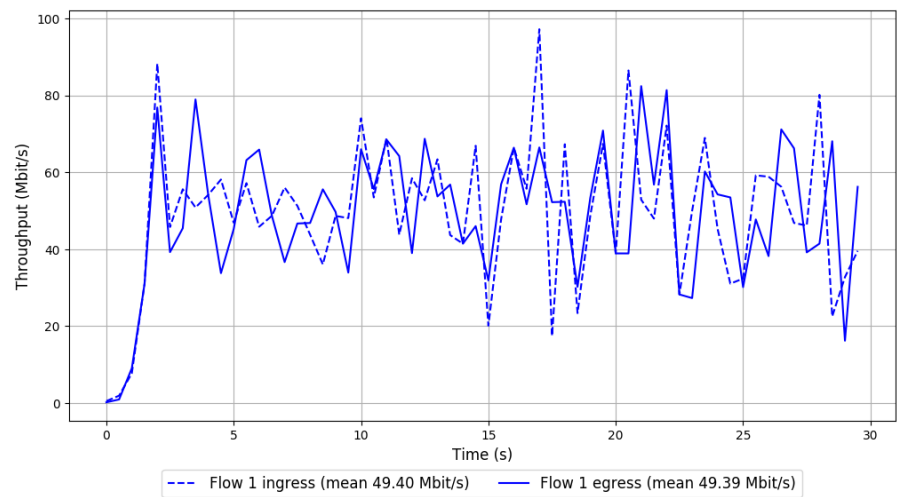
-- Flow 1:

Average throughput: 49.39 Mbit/s

95th percentile per-packet one-way delay: 119.625 ms

Loss rate: 0.01%

Run 3: Report of TCP BBR — Data Link

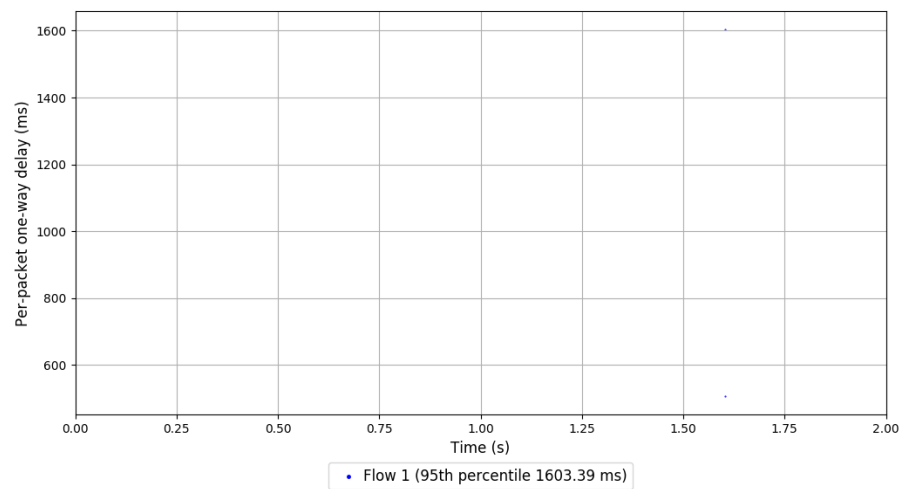
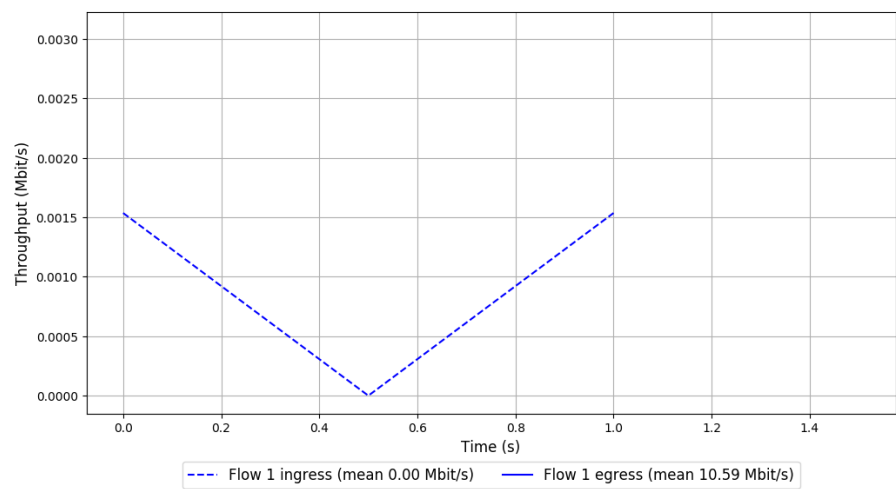


Run 4: Statistics of TCP BBR

Start at: 2017-12-11 09:52:50

End at: 2017-12-11 09:53:20

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2017-12-11 10:03:42

End at: 2017-12-11 10:04:12

Below is generated by plot.py at 2017-12-11 11:36:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 60.20 Mbit/s

95th percentile per-packet one-way delay: 118.351 ms

Loss rate: 0.01%

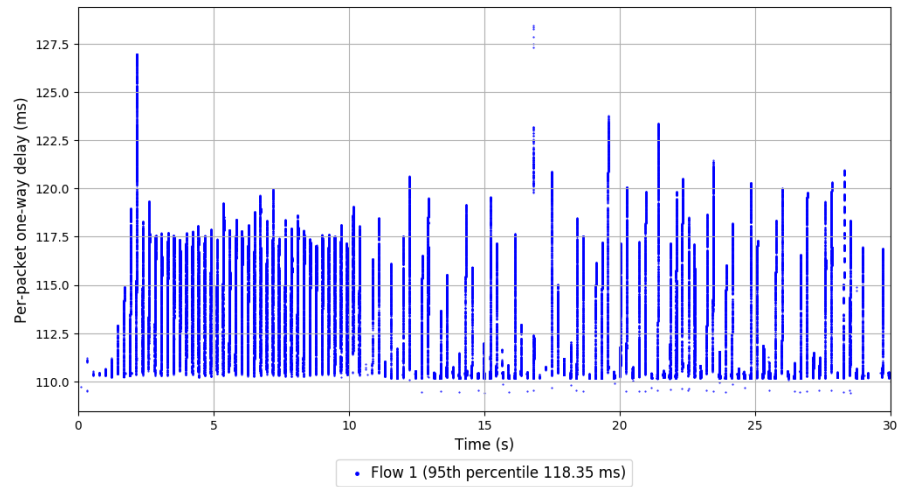
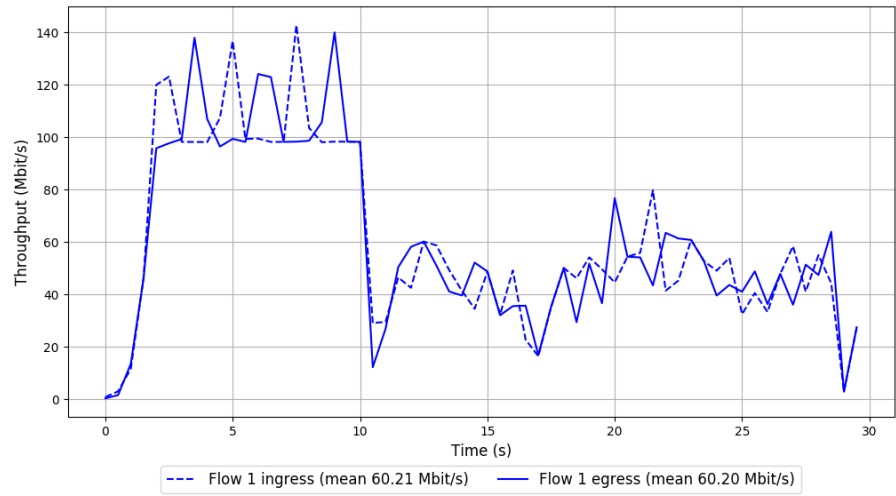
-- Flow 1:

Average throughput: 60.20 Mbit/s

95th percentile per-packet one-way delay: 118.351 ms

Loss rate: 0.01%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2017-12-11 10:14:51

End at: 2017-12-11 10:15:21

Below is generated by plot.py at 2017-12-11 11:36:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 48.73 Mbit/s

95th percentile per-packet one-way delay: 120.691 ms

Loss rate: 0.00%

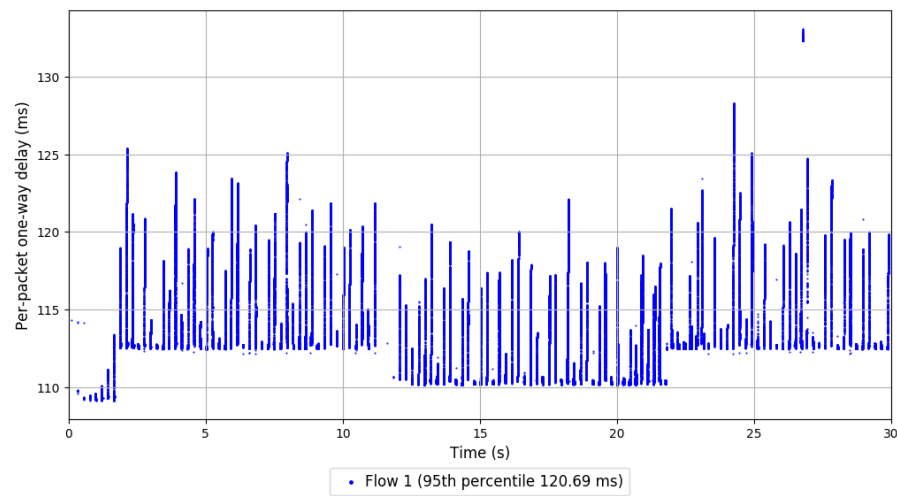
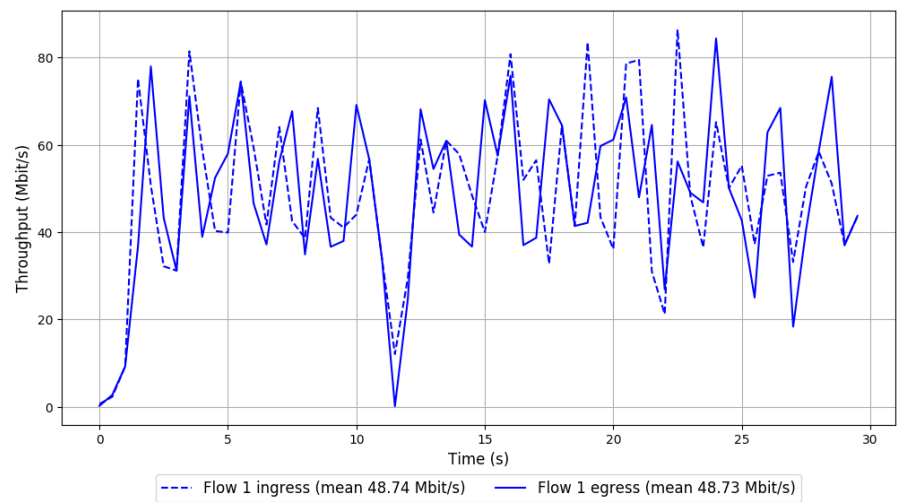
-- Flow 1:

Average throughput: 48.73 Mbit/s

95th percentile per-packet one-way delay: 120.691 ms

Loss rate: 0.00%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2017-12-11 10:25:49

End at: 2017-12-11 10:26:19

Below is generated by plot.py at 2017-12-11 11:36:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 49.79 Mbit/s

95th percentile per-packet one-way delay: 121.952 ms

Loss rate: 0.00%

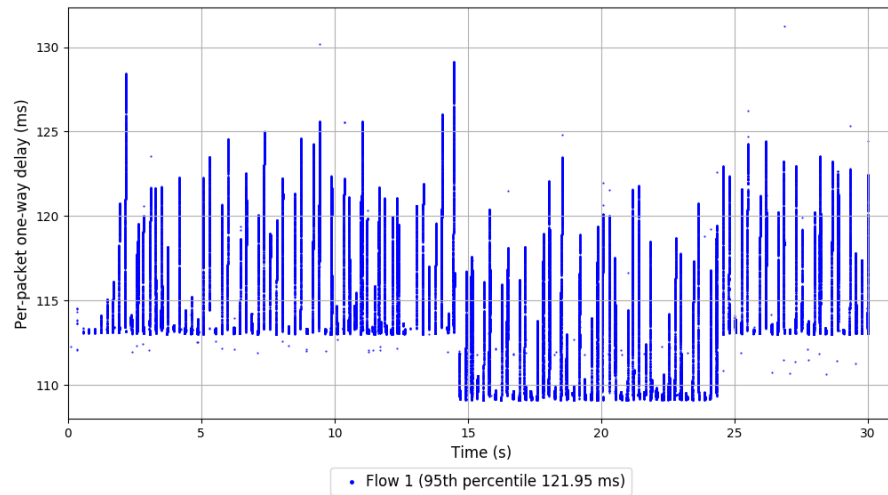
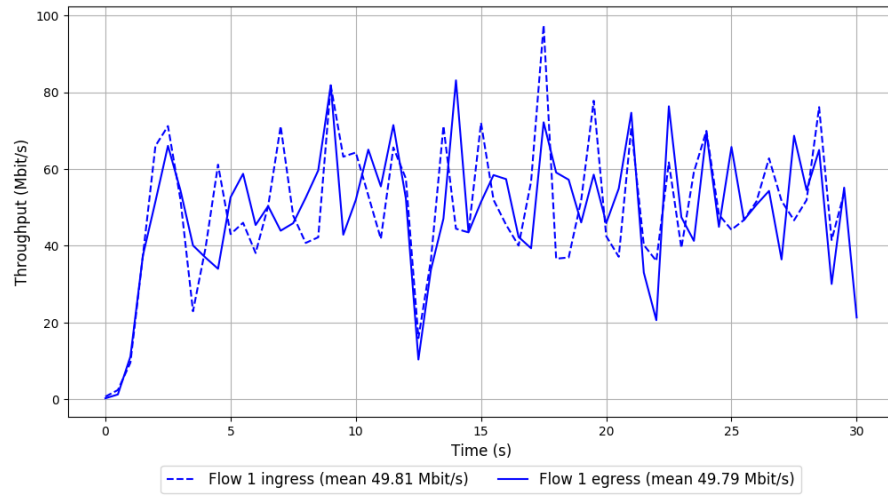
-- Flow 1:

Average throughput: 49.79 Mbit/s

95th percentile per-packet one-way delay: 121.952 ms

Loss rate: 0.00%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2017-12-11 10:36:53

End at: 2017-12-11 10:37:23

Below is generated by plot.py at 2017-12-11 11:36:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 45.96 Mbit/s

95th percentile per-packet one-way delay: 122.348 ms

Loss rate: 0.01%

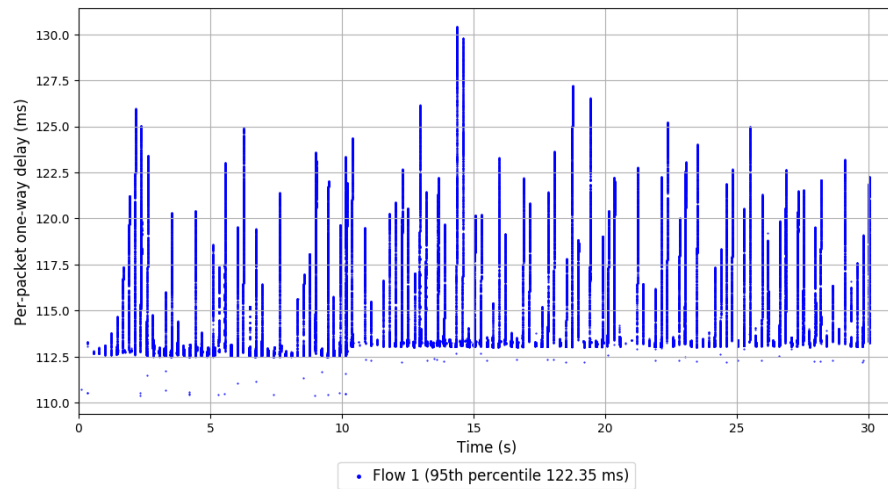
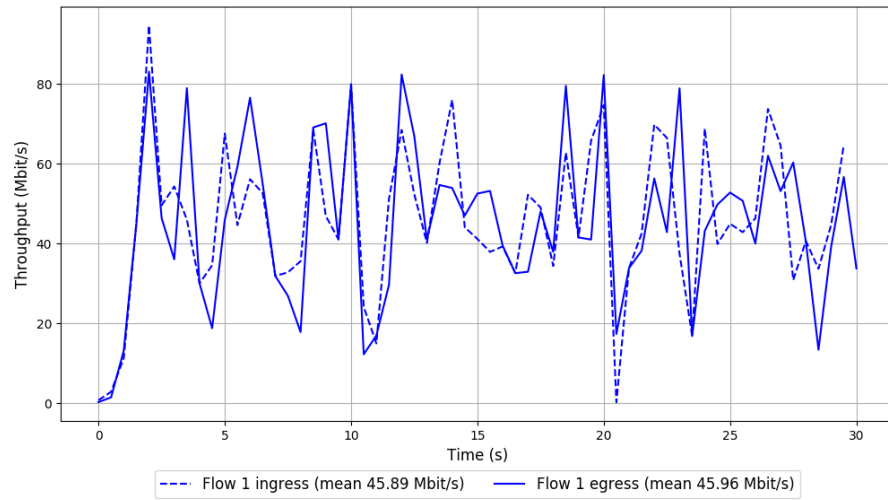
-- Flow 1:

Average throughput: 45.96 Mbit/s

95th percentile per-packet one-way delay: 122.348 ms

Loss rate: 0.01%

Run 8: Report of TCP BBR — Data Link

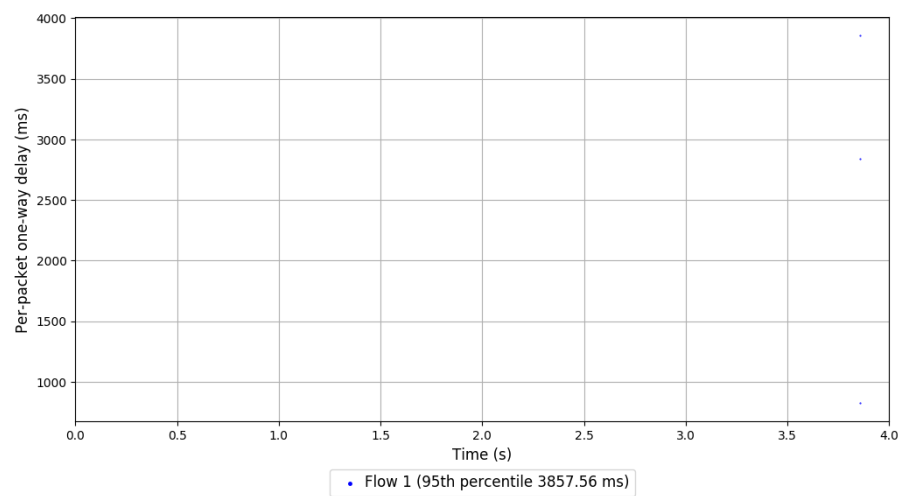
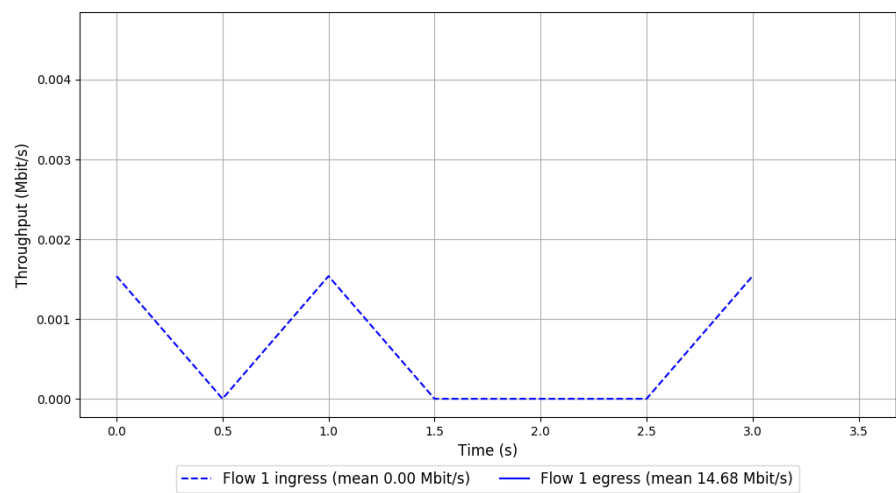


Run 9: Statistics of TCP BBR

Start at: 2017-12-11 10:47:39

End at: 2017-12-11 10:48:09

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2017-12-11 10:58:25

End at: 2017-12-11 10:58:55

Below is generated by plot.py at 2017-12-11 11:36:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 48.26 Mbit/s

95th percentile per-packet one-way delay: 122.847 ms

Loss rate: 0.36%

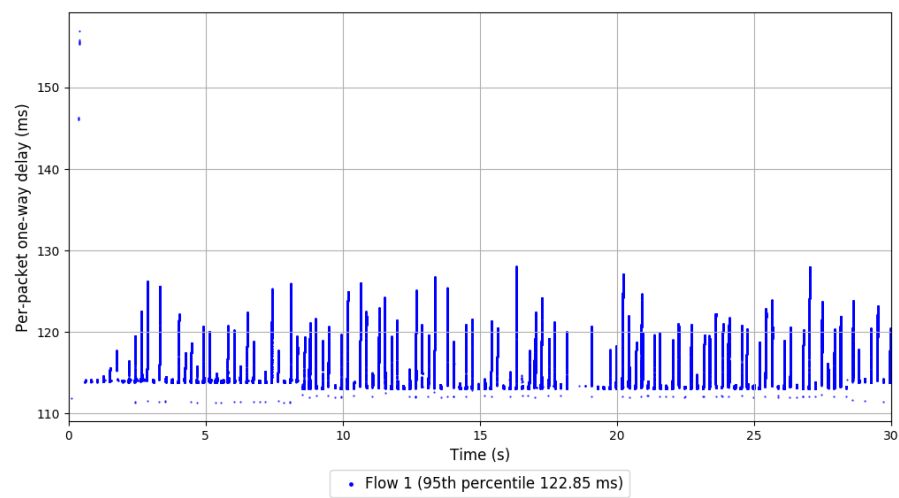
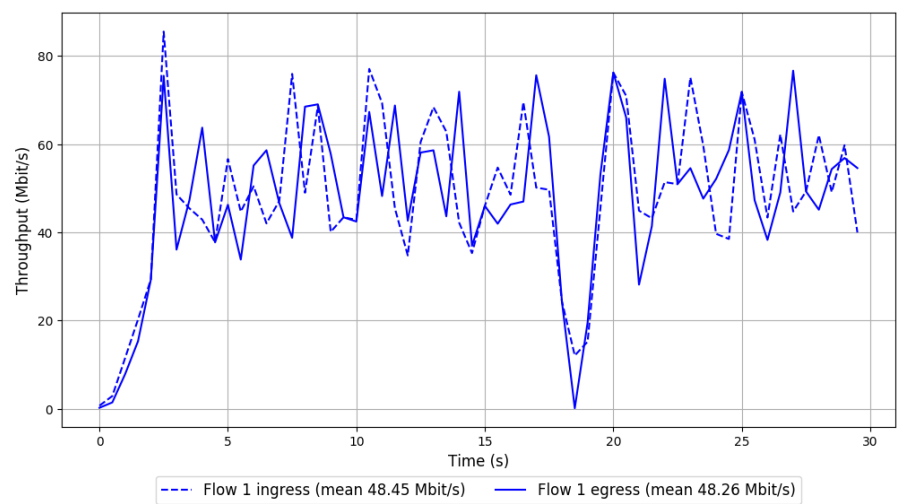
-- Flow 1:

Average throughput: 48.26 Mbit/s

95th percentile per-packet one-way delay: 122.847 ms

Loss rate: 0.36%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2017-12-11 09:17:15

End at: 2017-12-11 09:17:45

Below is generated by plot.py at 2017-12-11 11:36:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 51.54 Mbit/s

95th percentile per-packet one-way delay: 122.546 ms

Loss rate: 0.01%

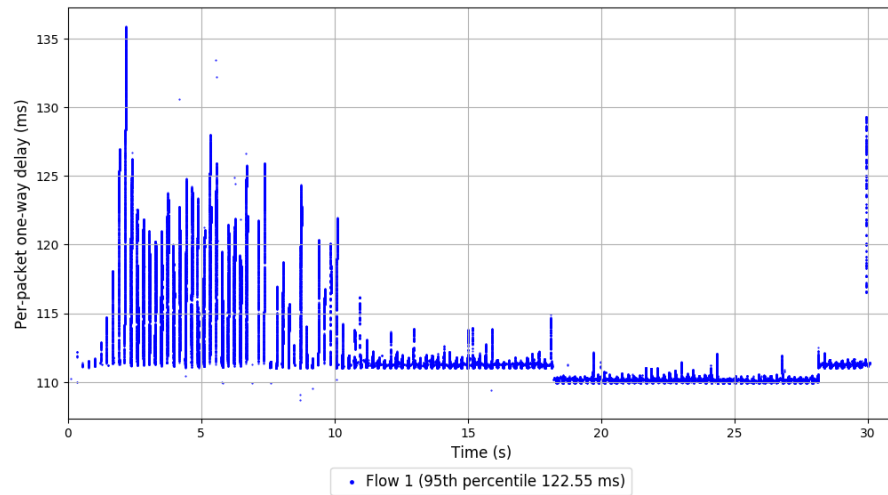
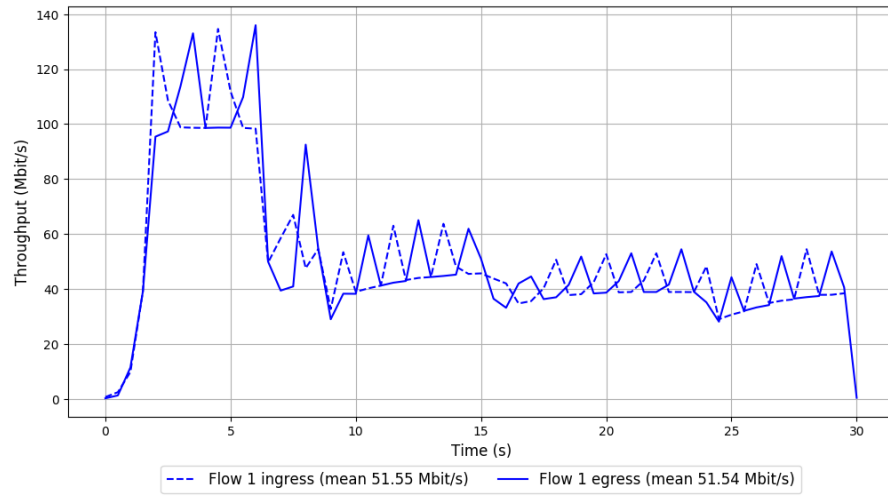
-- Flow 1:

Average throughput: 51.54 Mbit/s

95th percentile per-packet one-way delay: 122.546 ms

Loss rate: 0.01%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2017-12-11 09:28:23

End at: 2017-12-11 09:28:53

Below is generated by plot.py at 2017-12-11 11:36:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 54.10 Mbit/s

95th percentile per-packet one-way delay: 112.534 ms

Loss rate: 0.00%

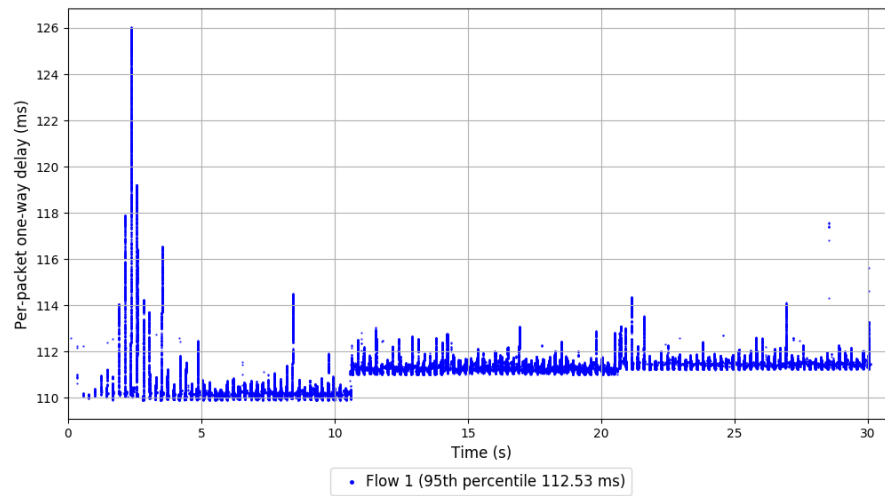
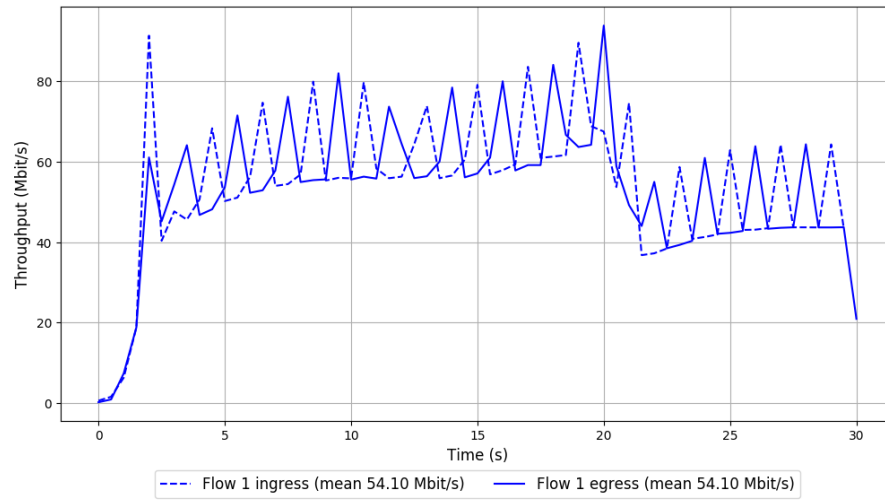
-- Flow 1:

Average throughput: 54.10 Mbit/s

95th percentile per-packet one-way delay: 112.534 ms

Loss rate: 0.00%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2017-12-11 09:39:28

End at: 2017-12-11 09:39:58

Below is generated by plot.py at 2017-12-11 11:37:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.04 Mbit/s

95th percentile per-packet one-way delay: 119.391 ms

Loss rate: 0.00%

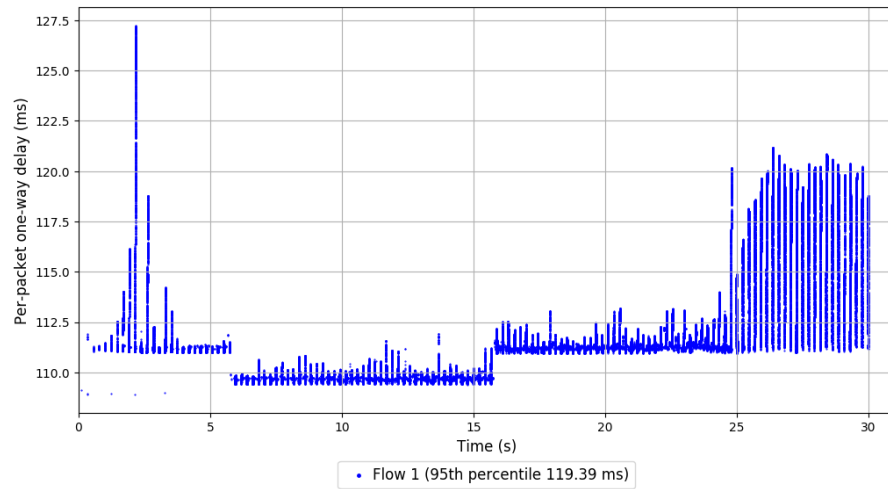
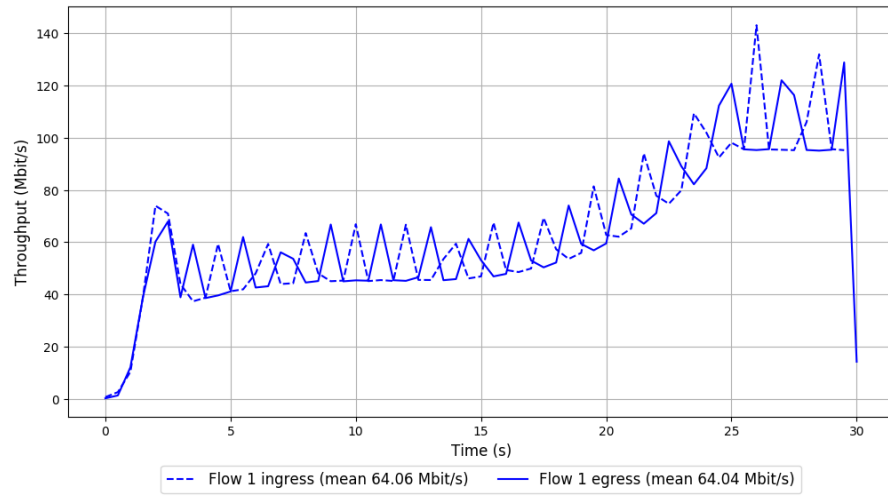
-- Flow 1:

Average throughput: 64.04 Mbit/s

95th percentile per-packet one-way delay: 119.391 ms

Loss rate: 0.00%

Run 3: Report of TCP Cubic — Data Link

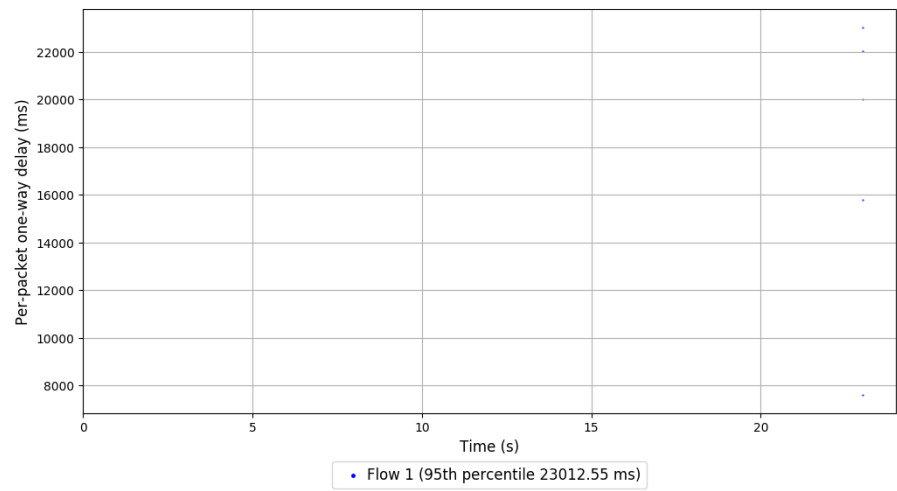
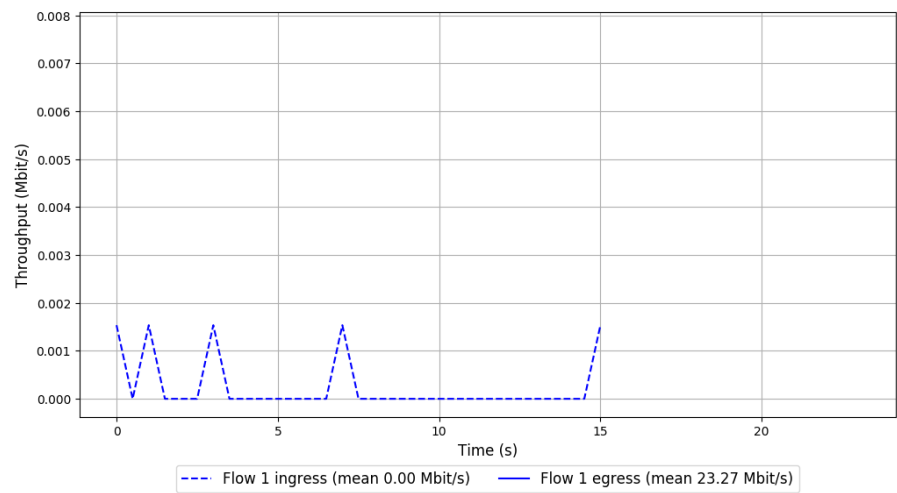


Run 4: Statistics of TCP Cubic

Start at: 2017-12-11 09:50:32

End at: 2017-12-11 09:51:02

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2017-12-11 10:01:21

End at: 2017-12-11 10:01:51

Below is generated by plot.py at 2017-12-11 11:37:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 60.58 Mbit/s

95th percentile per-packet one-way delay: 112.701 ms

Loss rate: 0.00%

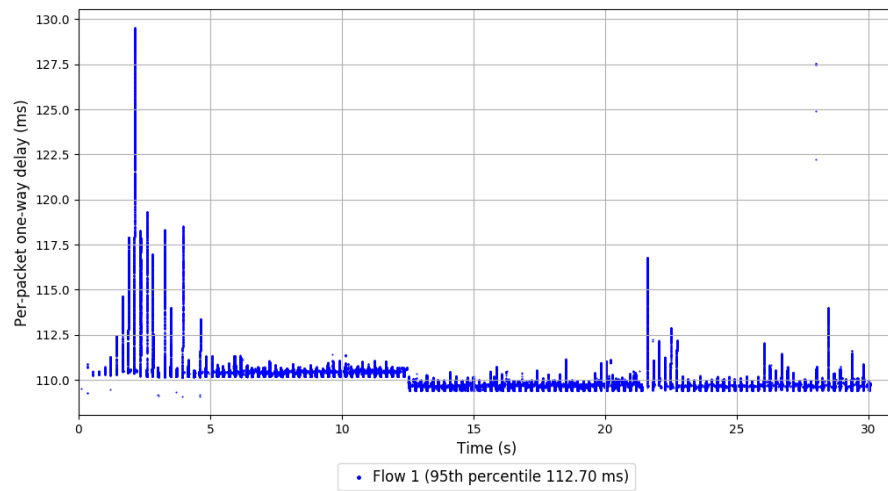
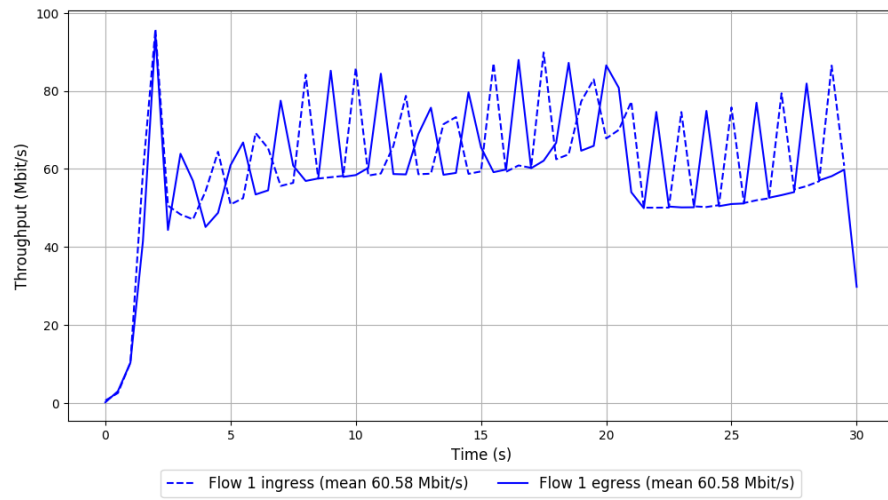
-- Flow 1:

Average throughput: 60.58 Mbit/s

95th percentile per-packet one-way delay: 112.701 ms

Loss rate: 0.00%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2017-12-11 10:12:29

End at: 2017-12-11 10:12:59

Below is generated by plot.py at 2017-12-11 11:37:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.77 Mbit/s

95th percentile per-packet one-way delay: 120.377 ms

Loss rate: 0.00%

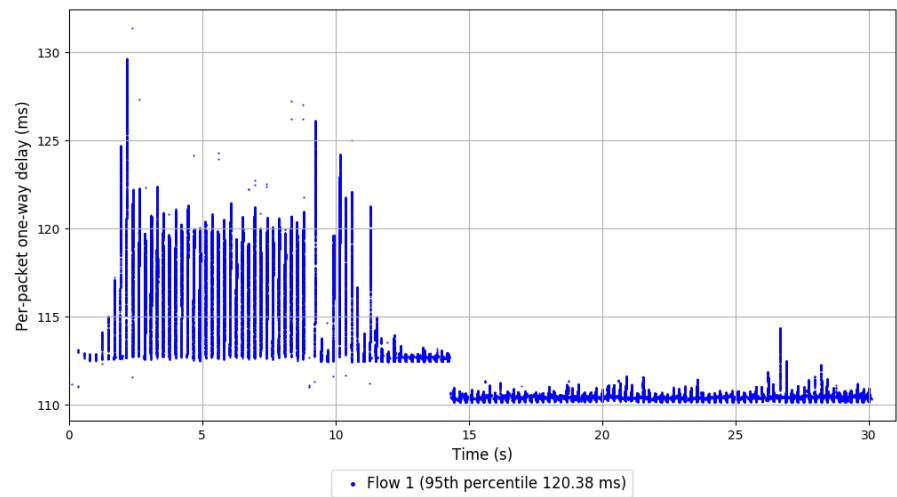
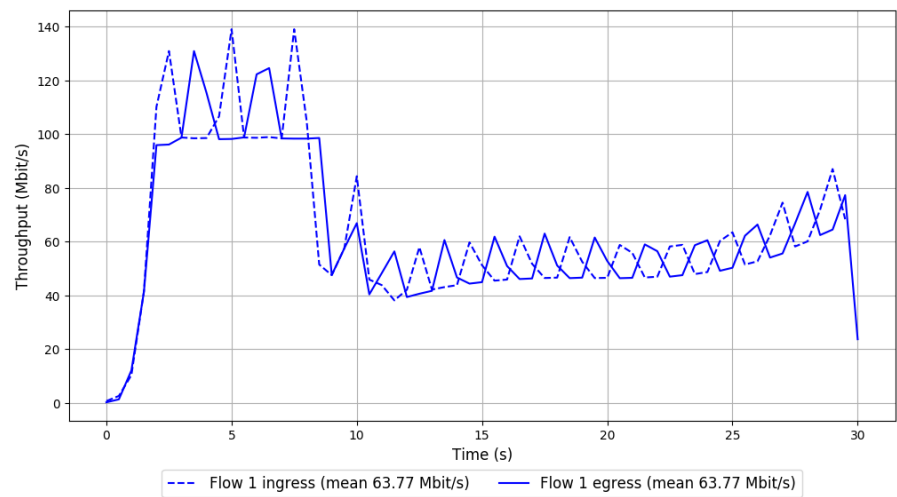
-- Flow 1:

Average throughput: 63.77 Mbit/s

95th percentile per-packet one-way delay: 120.377 ms

Loss rate: 0.00%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2017-12-11 10:23:27

End at: 2017-12-11 10:23:57

Below is generated by plot.py at 2017-12-11 11:37:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 59.23 Mbit/s

95th percentile per-packet one-way delay: 116.123 ms

Loss rate: 0.00%

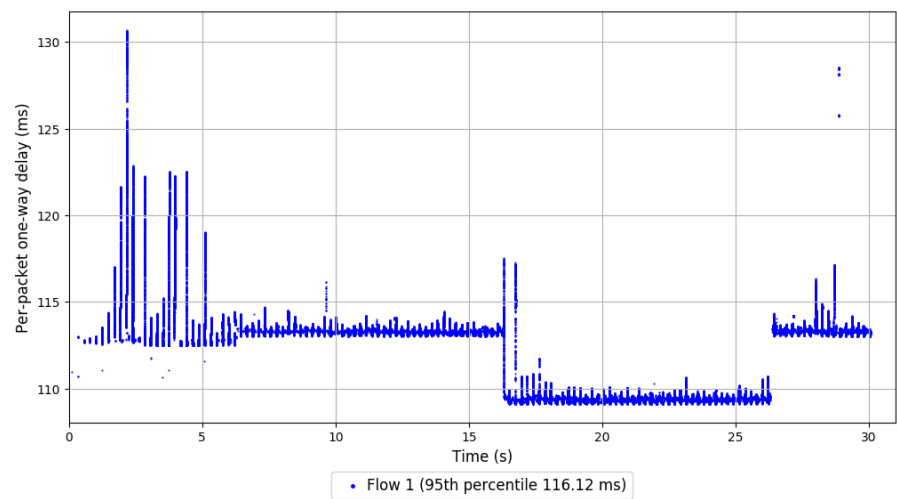
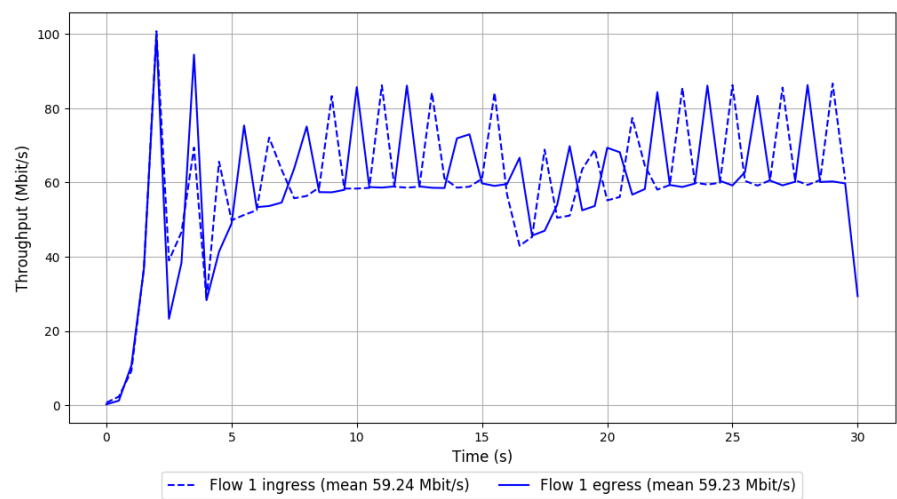
-- Flow 1:

Average throughput: 59.23 Mbit/s

95th percentile per-packet one-way delay: 116.123 ms

Loss rate: 0.00%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2017-12-11 10:34:31

End at: 2017-12-11 10:35:01

Below is generated by plot.py at 2017-12-11 11:37:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 47.20 Mbit/s

95th percentile per-packet one-way delay: 115.672 ms

Loss rate: 0.01%

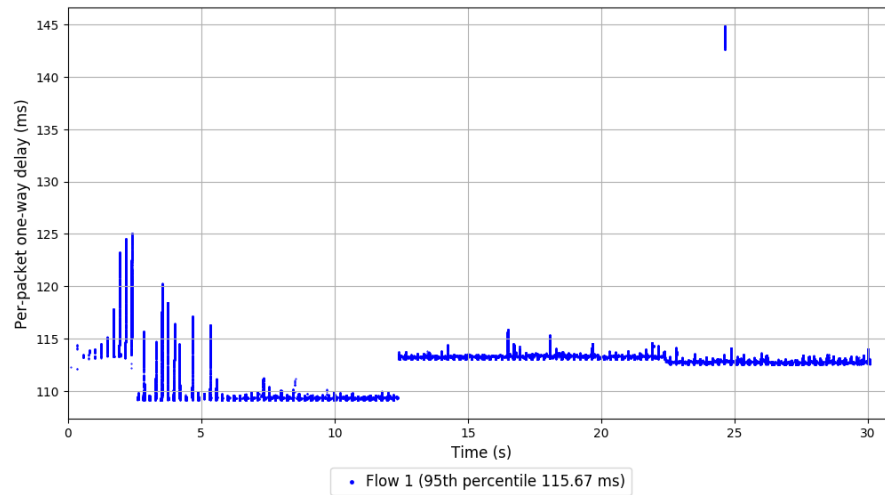
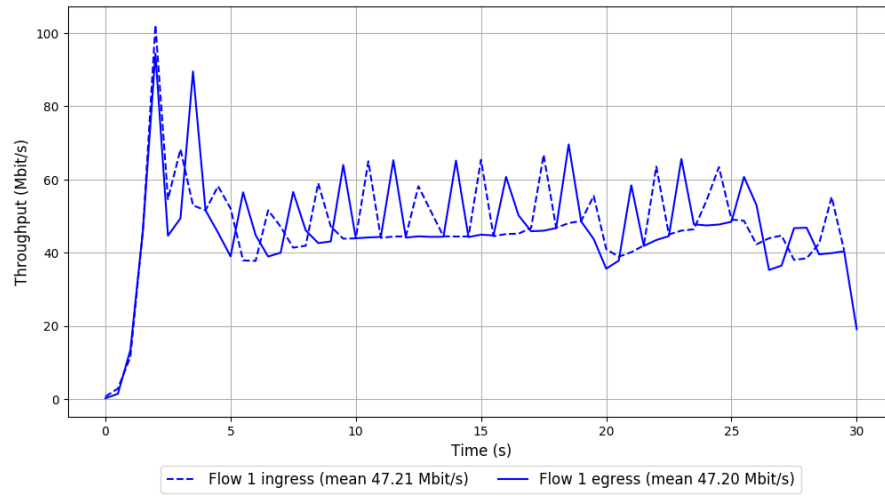
-- Flow 1:

Average throughput: 47.20 Mbit/s

95th percentile per-packet one-way delay: 115.672 ms

Loss rate: 0.01%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2017-12-11 10:45:16

End at: 2017-12-11 10:45:47

Below is generated by plot.py at 2017-12-11 11:37:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 67.15 Mbit/s

95th percentile per-packet one-way delay: 114.932 ms

Loss rate: 0.00%

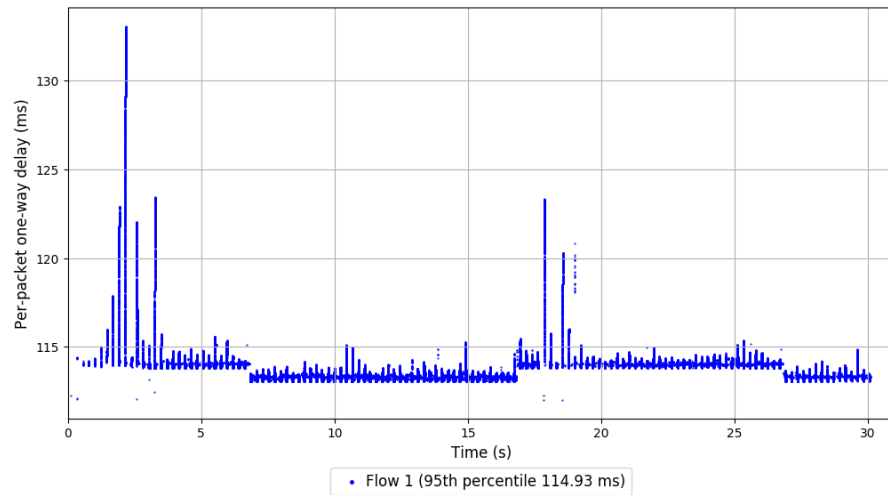
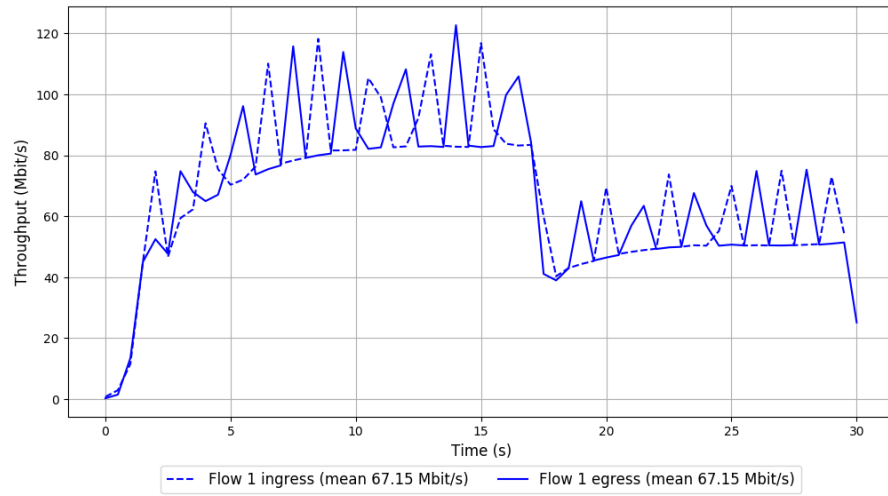
-- Flow 1:

Average throughput: 67.15 Mbit/s

95th percentile per-packet one-way delay: 114.932 ms

Loss rate: 0.00%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2017-12-11 10:56:04

End at: 2017-12-11 10:56:34

Below is generated by plot.py at 2017-12-11 11:37:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 62.39 Mbit/s

95th percentile per-packet one-way delay: 119.597 ms

Loss rate: 0.11%

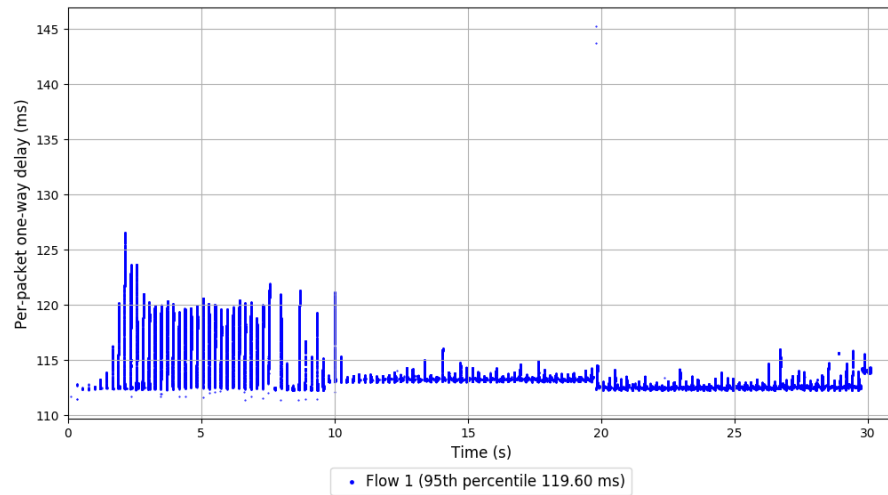
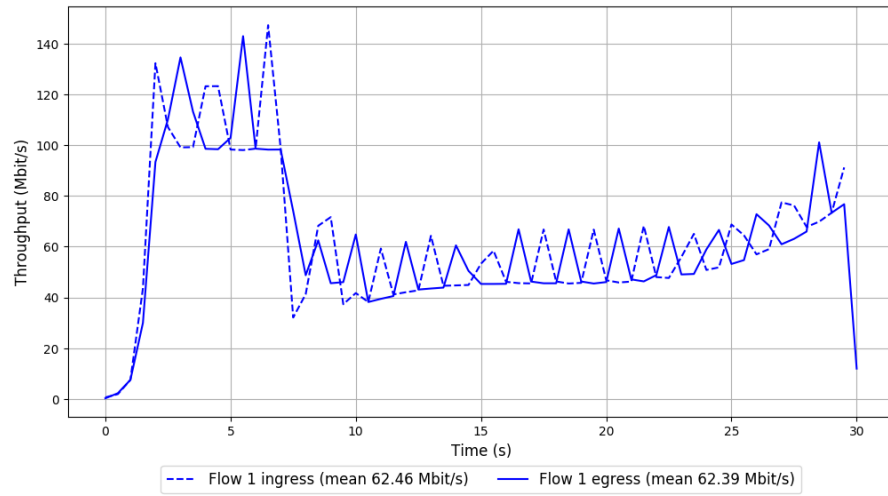
-- Flow 1:

Average throughput: 62.39 Mbit/s

95th percentile per-packet one-way delay: 119.597 ms

Loss rate: 0.11%

Run 10: Report of TCP Cubic — Data Link

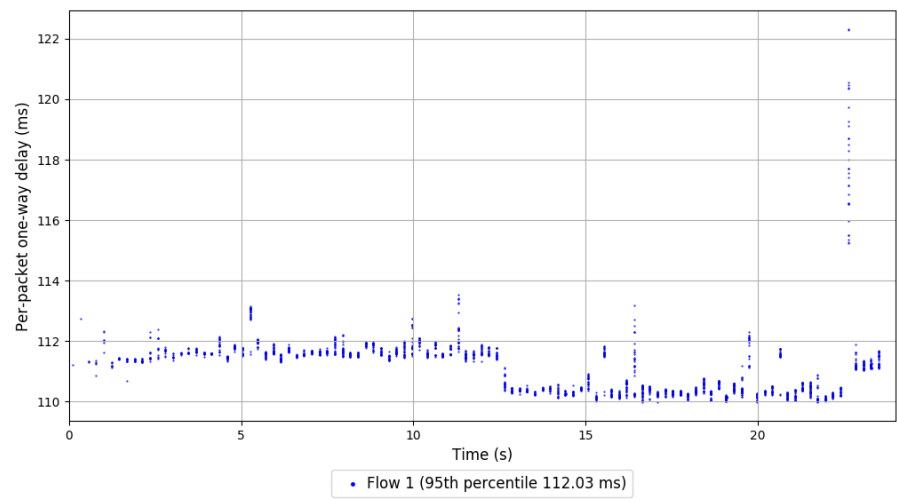
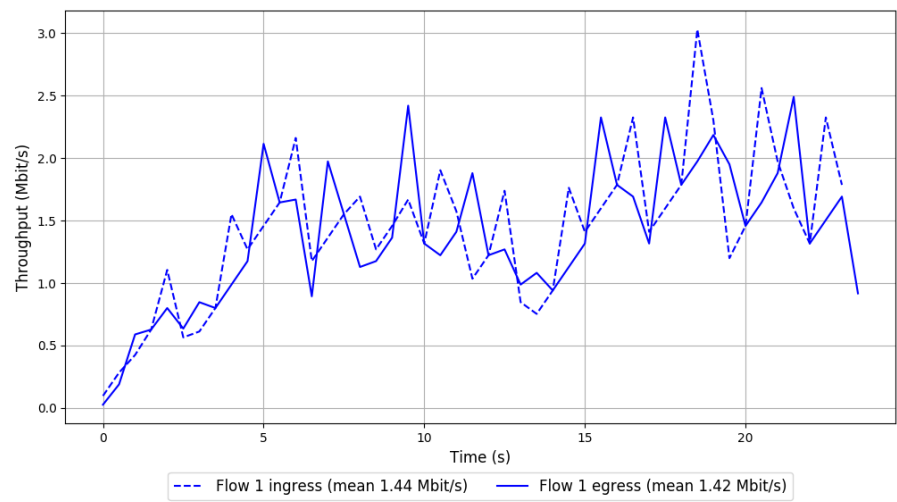


Run 1: Statistics of LEDBAT

Start at: 2017-12-11 09:16:34

End at: 2017-12-11 09:17:04

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2017-12-11 09:27:42

End at: 2017-12-11 09:28:12

Below is generated by plot.py at 2017-12-11 11:37:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.65 Mbit/s

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

Loss rate: 0.21%

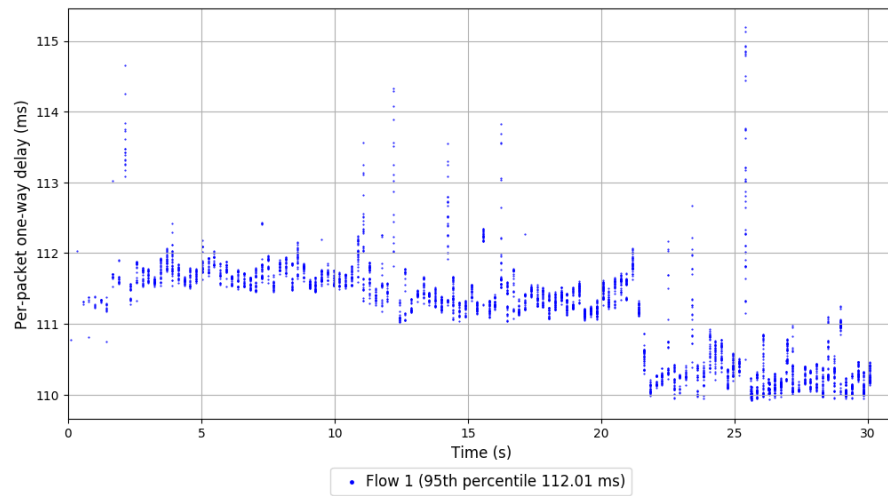
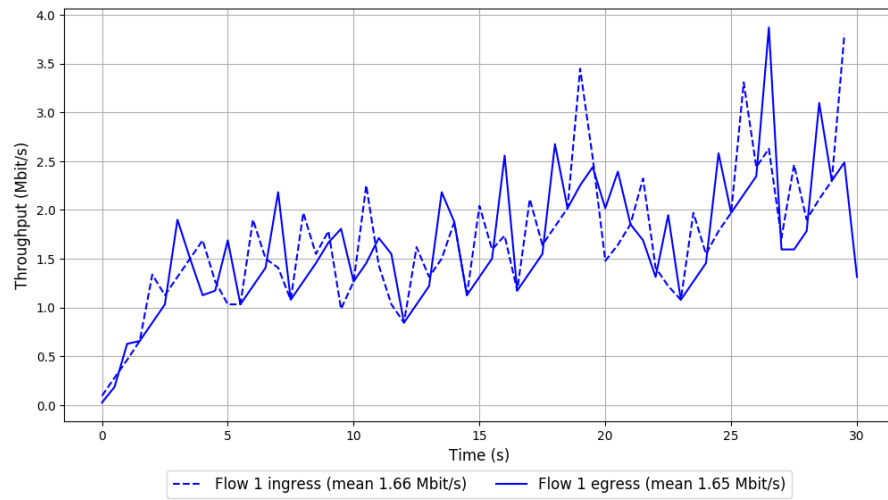
-- Flow 1:

Average throughput: 1.65 Mbit/s

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

Loss rate: 0.21%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2017-12-11 09:38:47

End at: 2017-12-11 09:39:17

Below is generated by plot.py at 2017-12-11 11:37:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.53 Mbit/s

95th percentile per-packet one-way delay: 111.908 ms

Loss rate: 0.40%

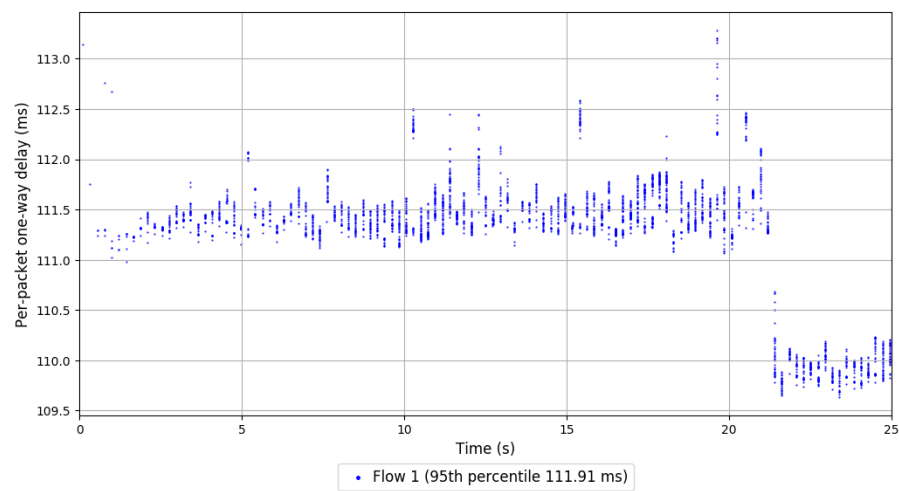
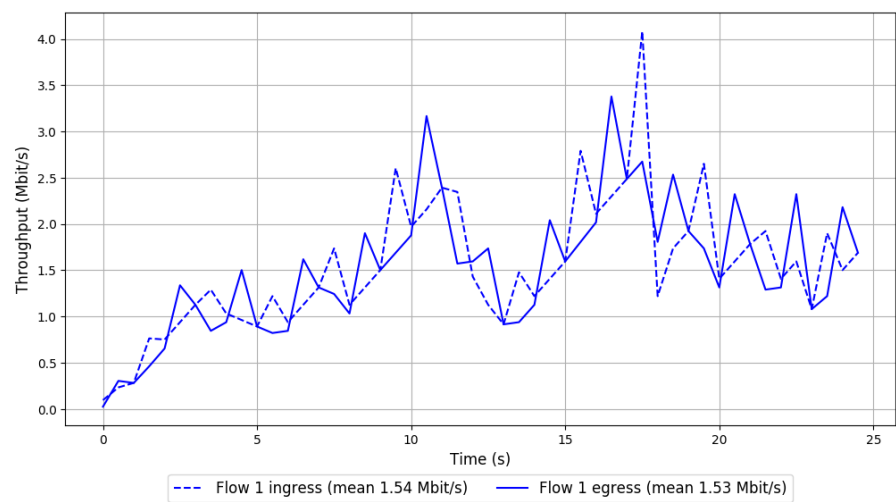
-- Flow 1:

Average throughput: 1.53 Mbit/s

95th percentile per-packet one-way delay: 111.908 ms

Loss rate: 0.40%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2017-12-11 09:49:51

End at: 2017-12-11 09:50:21

Below is generated by plot.py at 2017-12-11 11:37:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.71 Mbit/s

95th percentile per-packet one-way delay: 111.536 ms

Loss rate: 0.02%

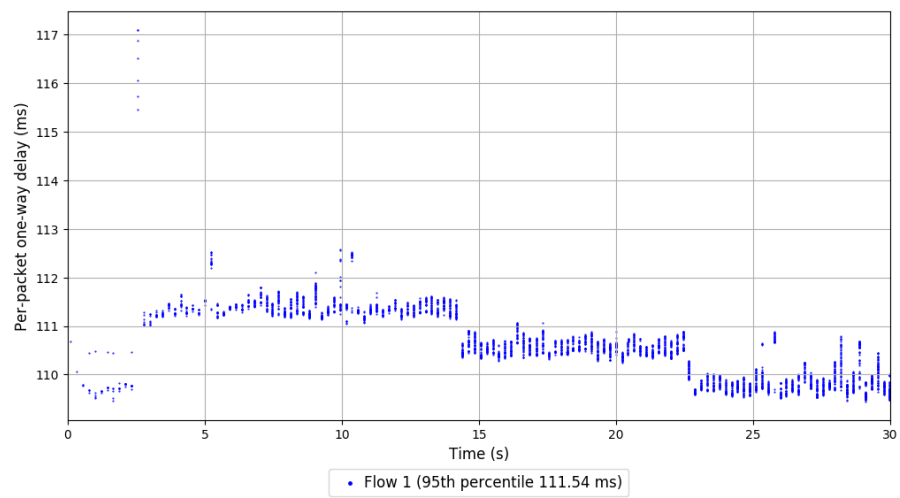
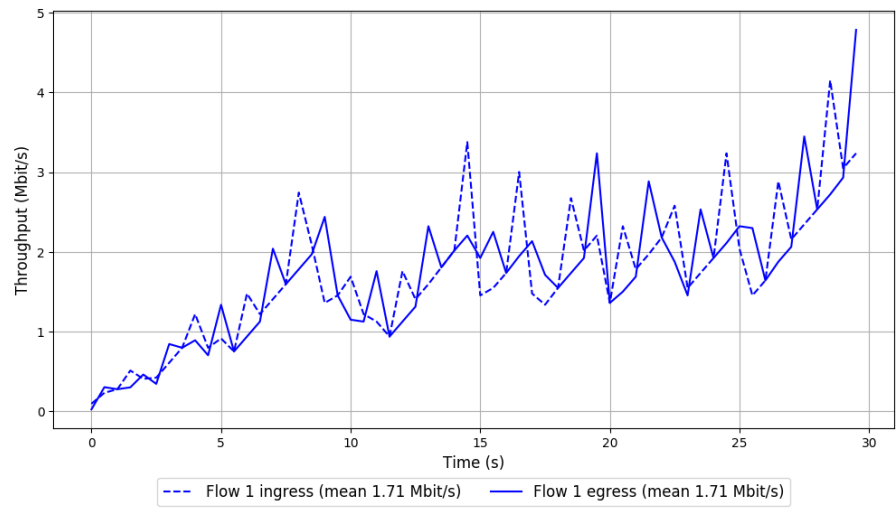
-- Flow 1:

Average throughput: 1.71 Mbit/s

95th percentile per-packet one-way delay: 111.536 ms

Loss rate: 0.02%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2017-12-11 10:00:40

End at: 2017-12-11 10:01:10

Below is generated by plot.py at 2017-12-11 11:37:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.53 Mbit/s

95th percentile per-packet one-way delay: 111.672 ms

Loss rate: 0.03%

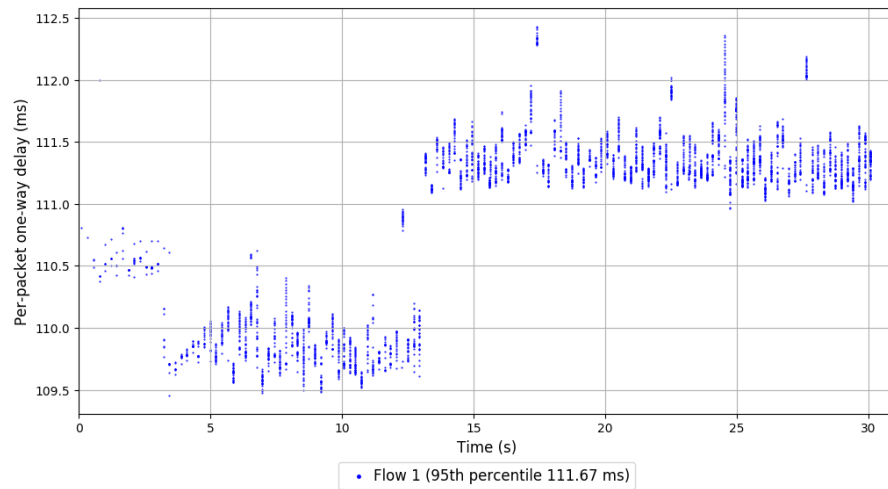
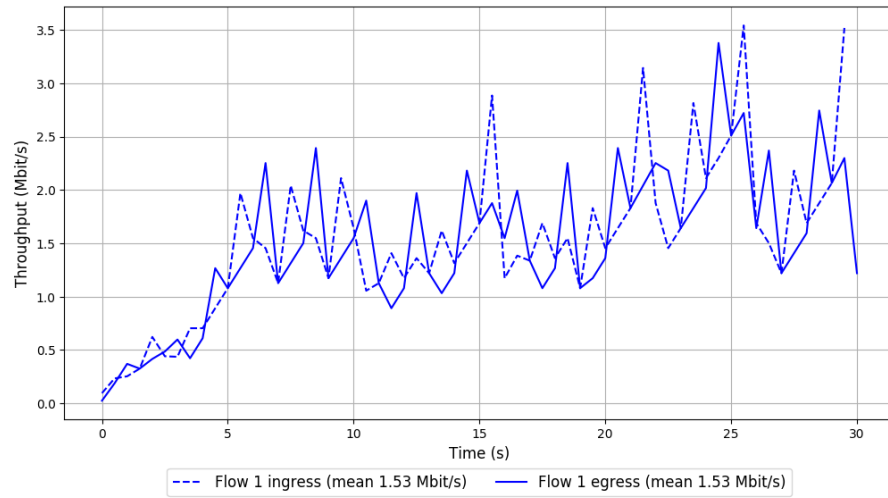
-- Flow 1:

Average throughput: 1.53 Mbit/s

95th percentile per-packet one-way delay: 111.672 ms

Loss rate: 0.03%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2017-12-11 10:11:48

End at: 2017-12-11 10:12:18

Below is generated by plot.py at 2017-12-11 11:37:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 110.819 ms

Loss rate: 0.00%

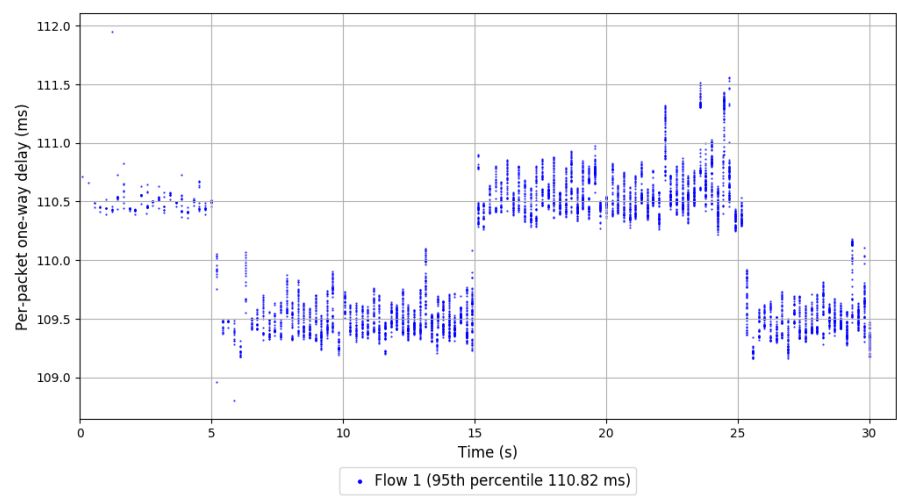
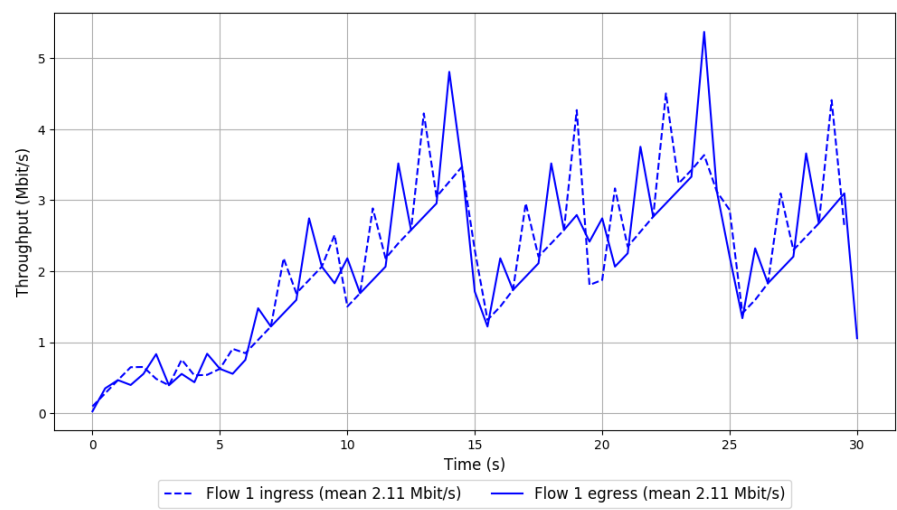
-- Flow 1:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 110.819 ms

Loss rate: 0.00%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2017-12-11 10:22:46

End at: 2017-12-11 10:23:16

Below is generated by plot.py at 2017-12-11 11:37:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.71 Mbit/s

95th percentile per-packet one-way delay: 113.863 ms

Loss rate: 0.02%

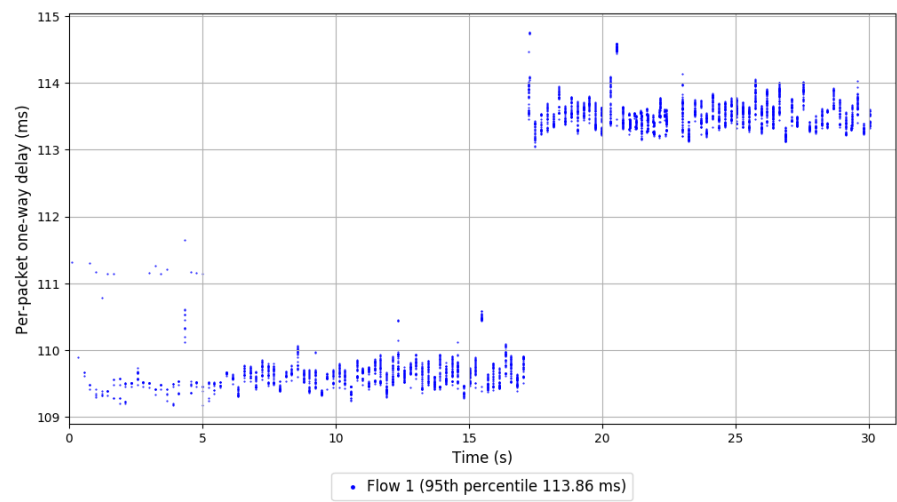
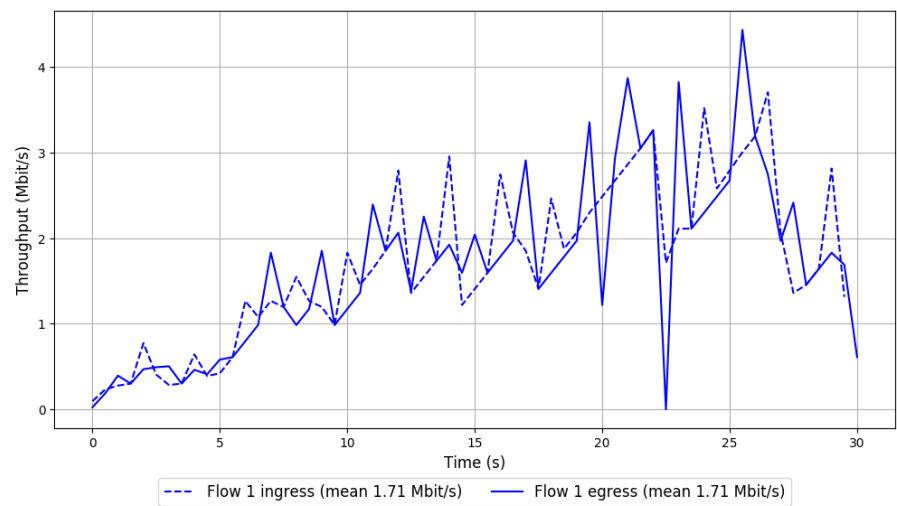
-- Flow 1:

Average throughput: 1.71 Mbit/s

95th percentile per-packet one-way delay: 113.863 ms

Loss rate: 0.02%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2017-12-11 10:33:50

End at: 2017-12-11 10:34:20

Below is generated by plot.py at 2017-12-11 11:37:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.01 Mbit/s

95th percentile per-packet one-way delay: 113.859 ms

Loss rate: 0.16%

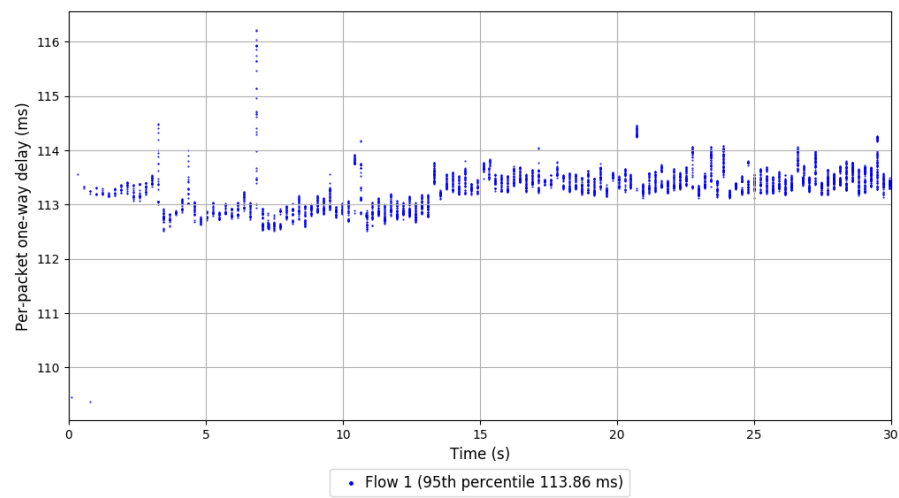
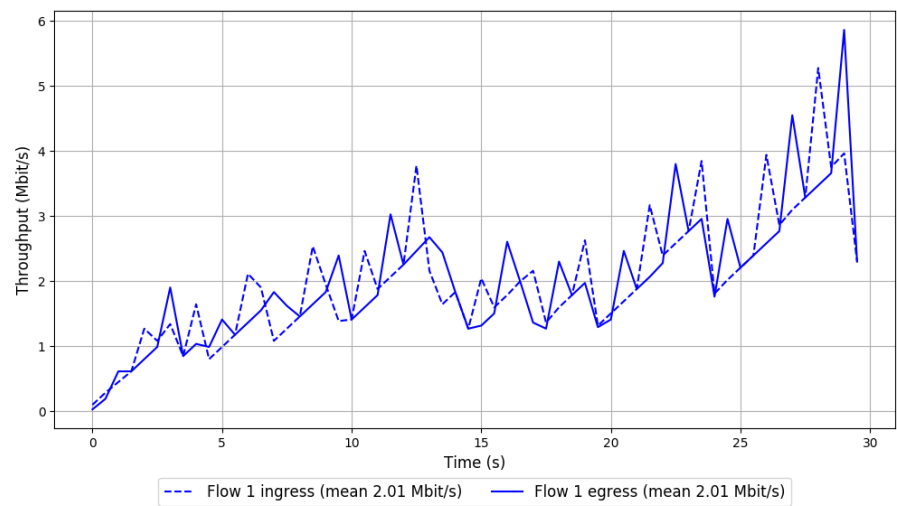
-- Flow 1:

Average throughput: 2.01 Mbit/s

95th percentile per-packet one-way delay: 113.859 ms

Loss rate: 0.16%

Run 8: Report of LEDBAT — Data Link

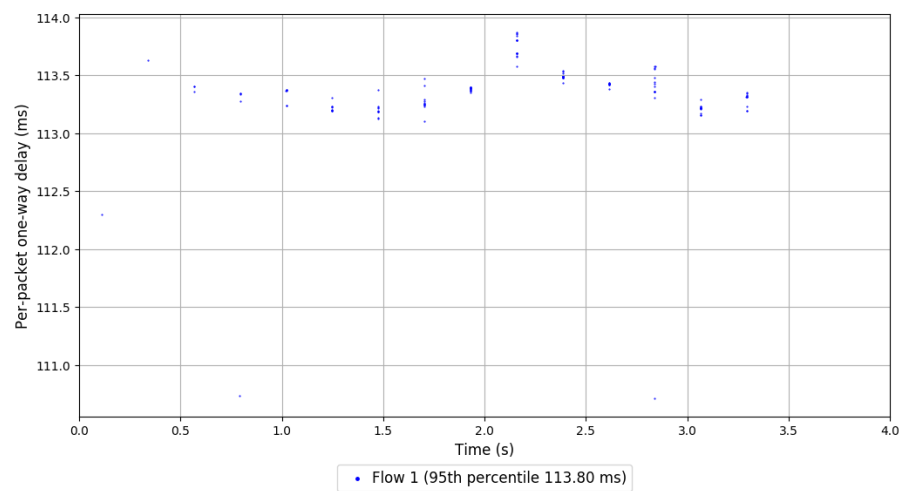
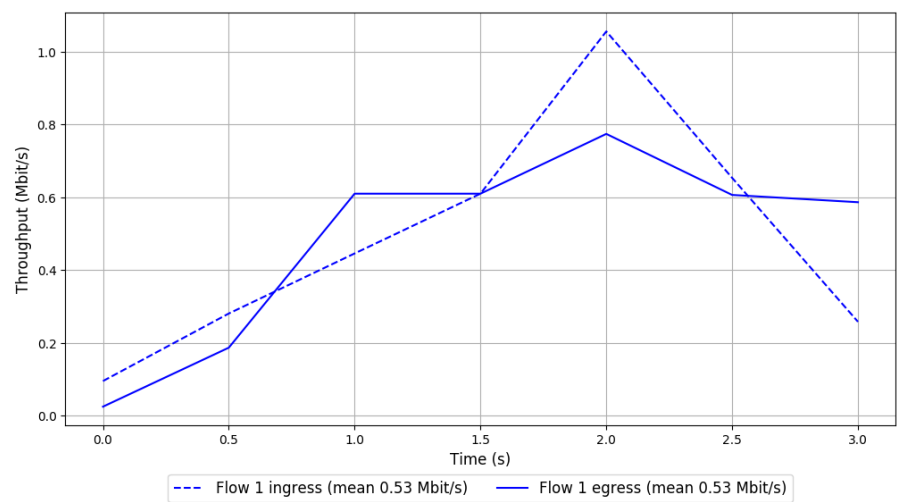


Run 9: Statistics of LEDBAT

Start at: 2017-12-11 10:44:36

End at: 2017-12-11 10:45:06

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2017-12-11 10:55:23

End at: 2017-12-11 10:55:53

Below is generated by plot.py at 2017-12-11 11:37:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.50 Mbit/s

95th percentile per-packet one-way delay: 114.530 ms

Loss rate: 0.11%

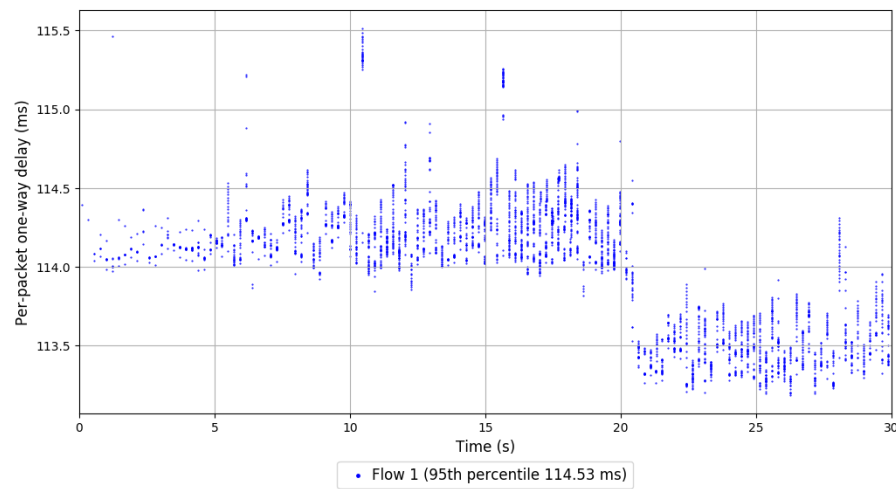
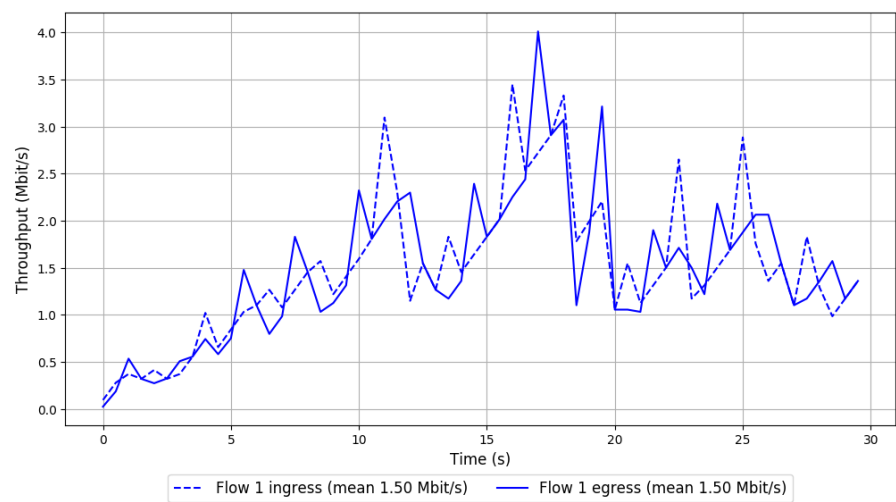
-- Flow 1:

Average throughput: 1.50 Mbit/s

95th percentile per-packet one-way delay: 114.530 ms

Loss rate: 0.11%

Run 10: Report of LEDBAT — Data Link

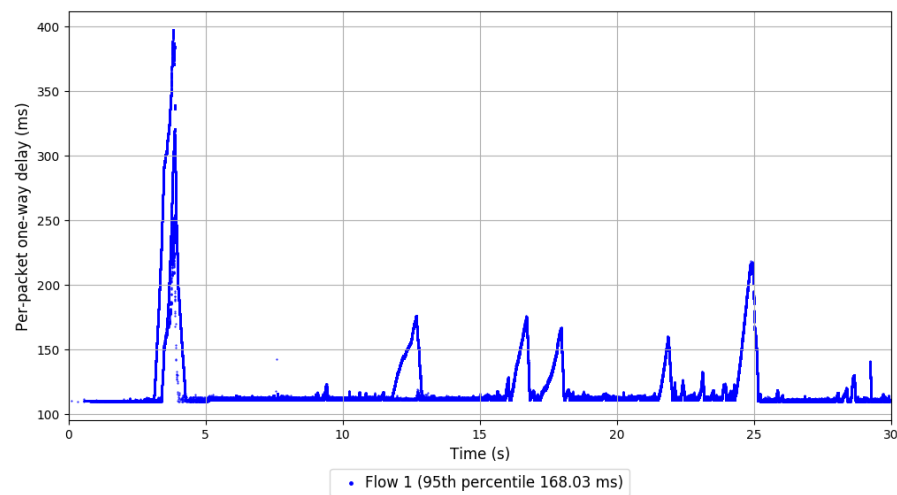
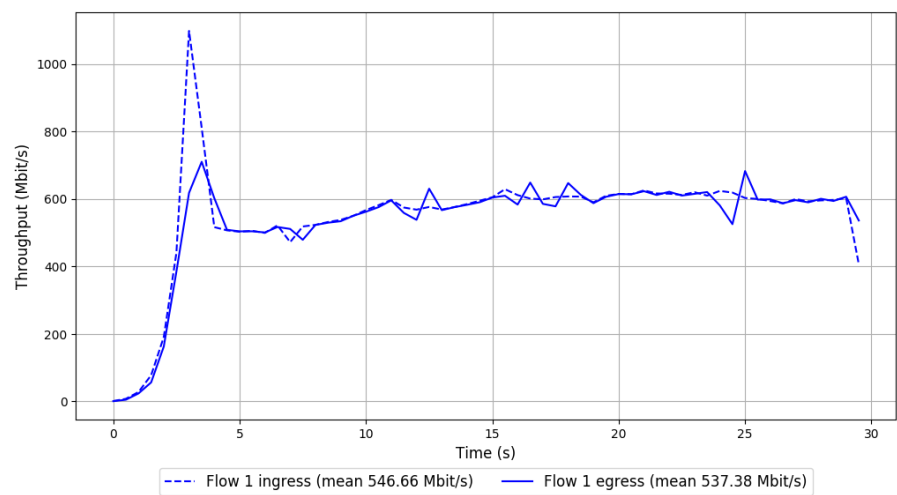


```
Run 1: Statistics of PCC

Start at: 2017-12-11 09:15:28
End at: 2017-12-11 09:15:58

# Below is generated by plot.py at 2017-12-11 11:46:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 537.38 Mbit/s
95th percentile per-packet one-way delay: 168.027 ms
Loss rate: 1.70%
-- Flow 1:
Average throughput: 537.38 Mbit/s
95th percentile per-packet one-way delay: 168.027 ms
Loss rate: 1.70%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2017-12-11 09:26:36

End at: 2017-12-11 09:27:06

Below is generated by plot.py at 2017-12-11 11:47:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 558.43 Mbit/s

95th percentile per-packet one-way delay: 243.483 ms

Loss rate: 1.97%

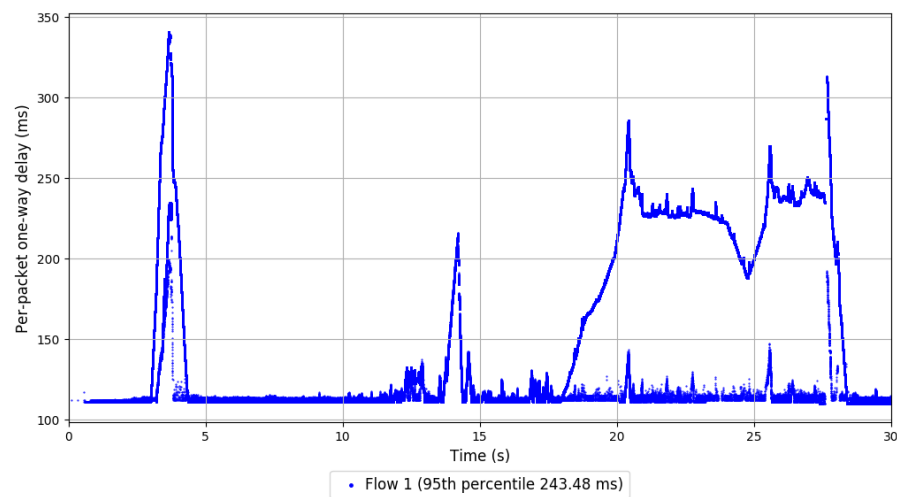
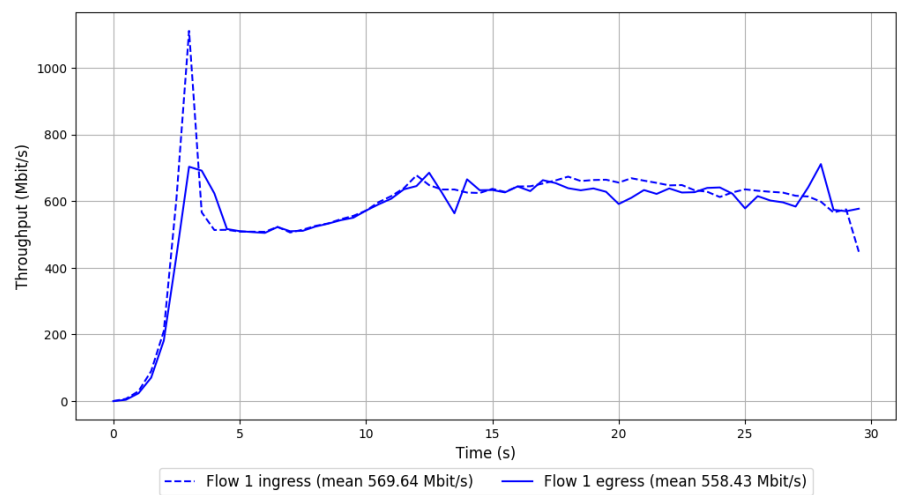
-- Flow 1:

Average throughput: 558.43 Mbit/s

95th percentile per-packet one-way delay: 243.483 ms

Loss rate: 1.97%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2017-12-11 09:37:43

End at: 2017-12-11 09:38:13

Below is generated by plot.py at 2017-12-11 11:47:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 527.33 Mbit/s

95th percentile per-packet one-way delay: 257.045 ms

Loss rate: 2.27%

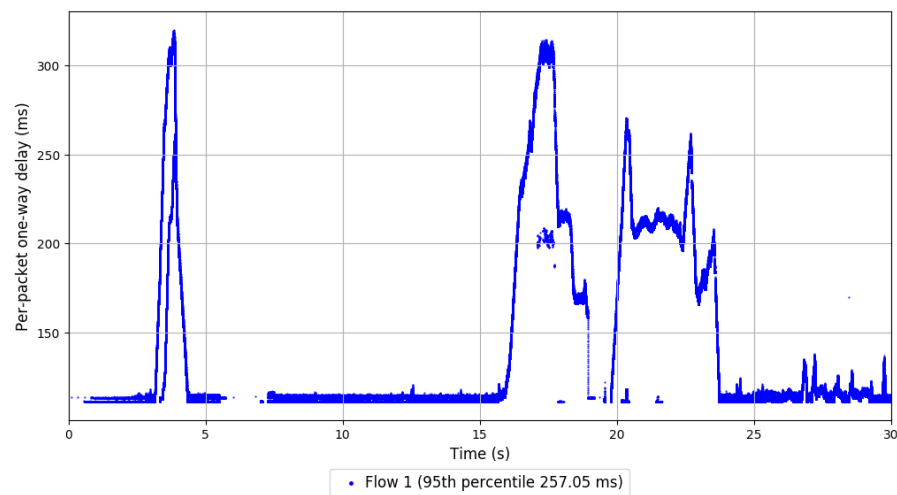
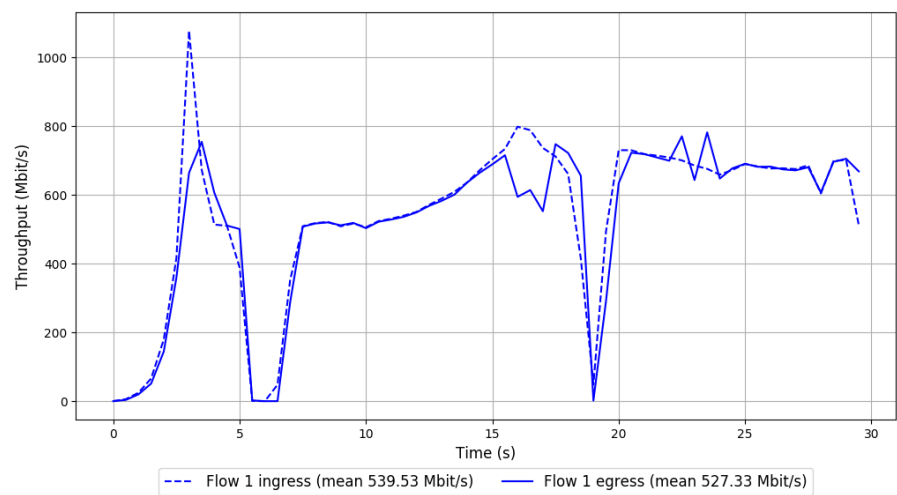
-- Flow 1:

Average throughput: 527.33 Mbit/s

95th percentile per-packet one-way delay: 257.045 ms

Loss rate: 2.27%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2017-12-11 09:48:45

End at: 2017-12-11 09:49:15

Below is generated by plot.py at 2017-12-11 11:48:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 599.94 Mbit/s

95th percentile per-packet one-way delay: 220.548 ms

Loss rate: 2.33%

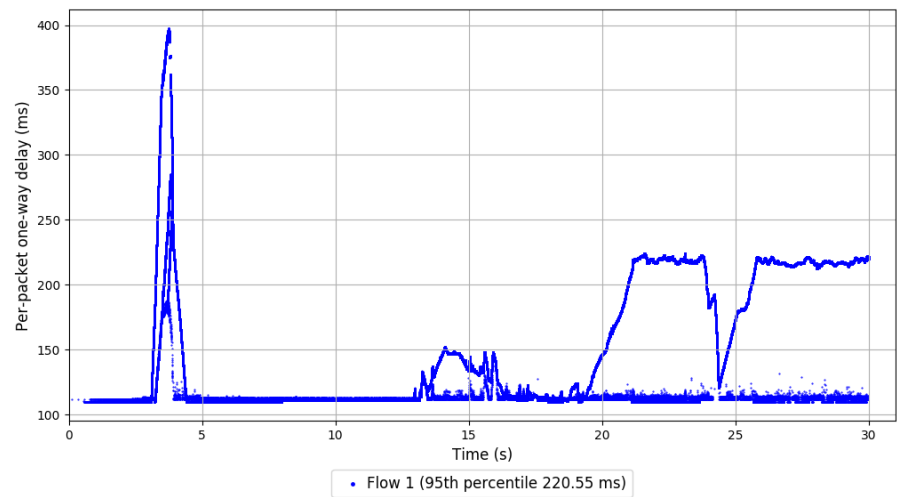
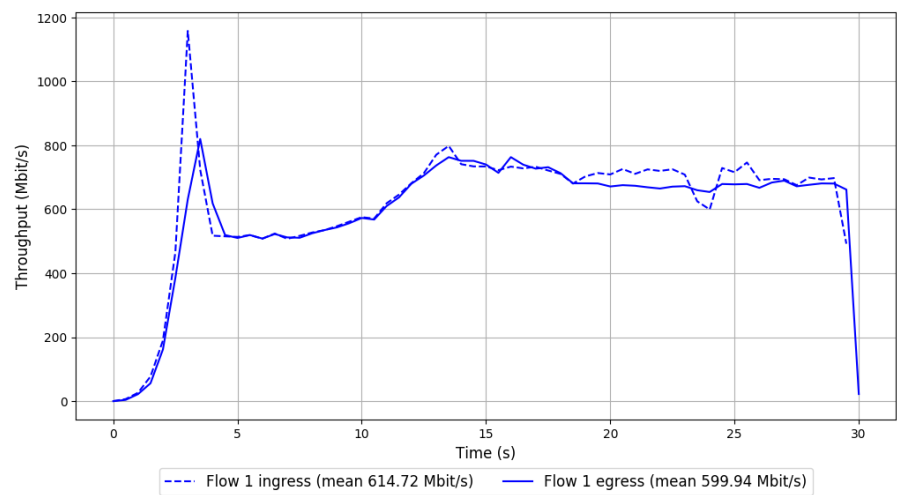
-- Flow 1:

Average throughput: 599.94 Mbit/s

95th percentile per-packet one-way delay: 220.548 ms

Loss rate: 2.33%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2017-12-11 09:59:34

End at: 2017-12-11 10:00:04

Below is generated by plot.py at 2017-12-11 11:48:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 592.32 Mbit/s

95th percentile per-packet one-way delay: 213.211 ms

Loss rate: 1.67%

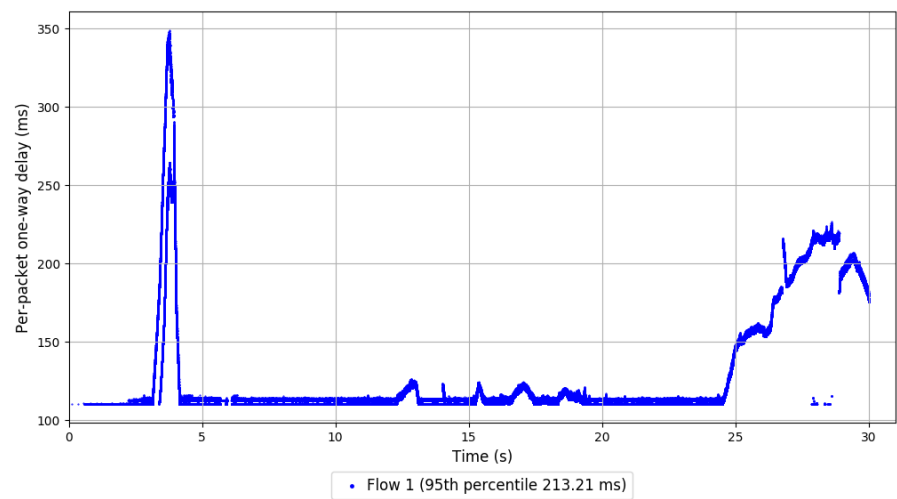
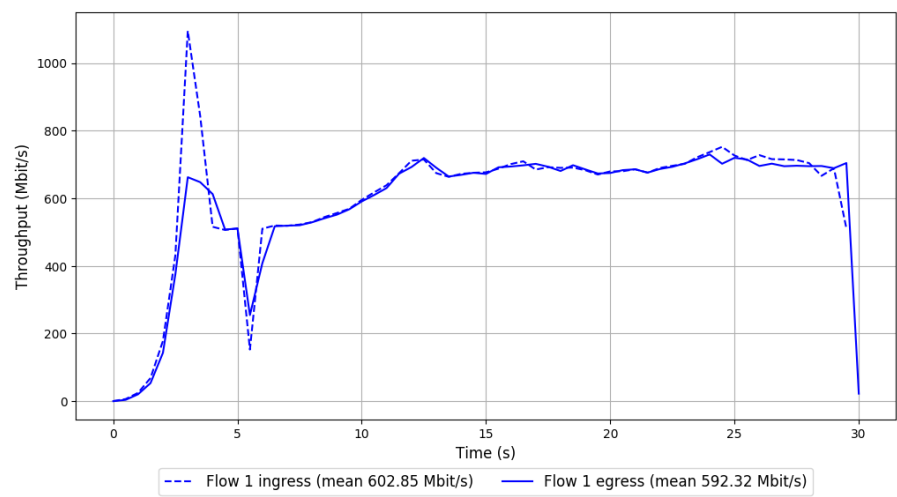
-- Flow 1:

Average throughput: 592.32 Mbit/s

95th percentile per-packet one-way delay: 213.211 ms

Loss rate: 1.67%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2017-12-11 10:10:44

End at: 2017-12-11 10:11:14

Below is generated by plot.py at 2017-12-11 11:48:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 577.10 Mbit/s

95th percentile per-packet one-way delay: 219.133 ms

Loss rate: 1.28%

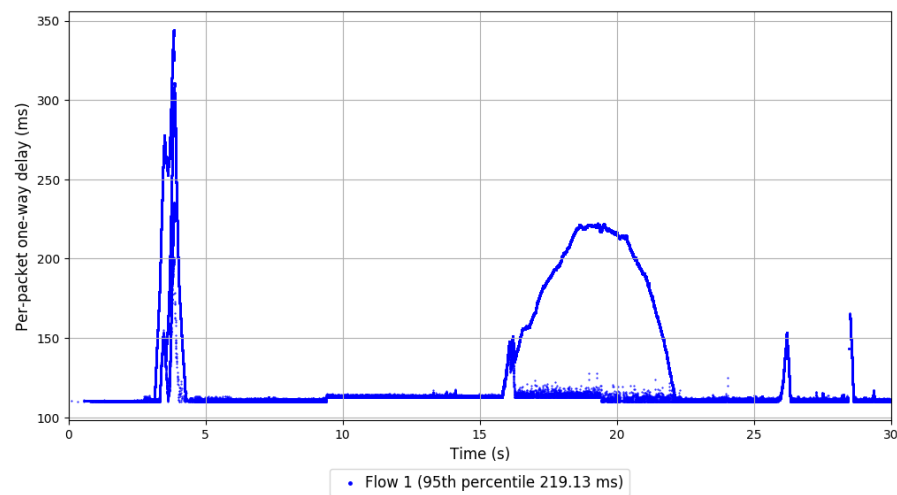
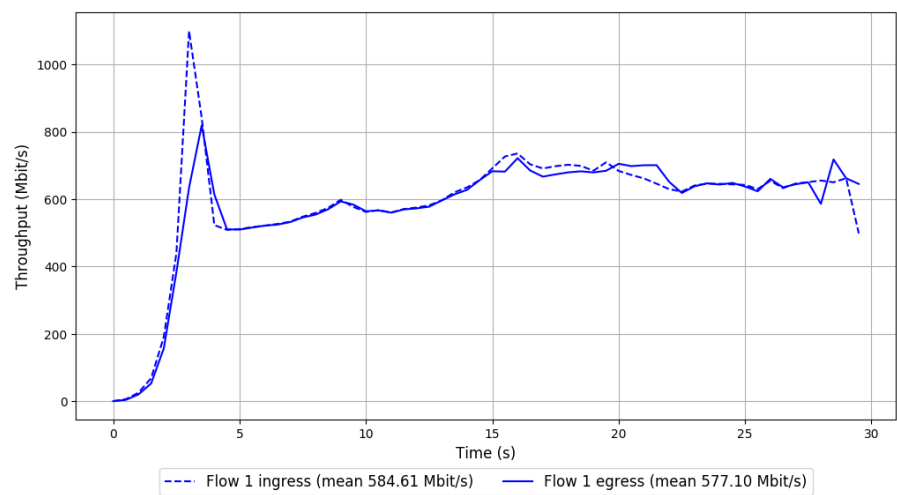
-- Flow 1:

Average throughput: 577.10 Mbit/s

95th percentile per-packet one-way delay: 219.133 ms

Loss rate: 1.28%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2017-12-11 10:21:42

End at: 2017-12-11 10:22:12

Below is generated by plot.py at 2017-12-11 11:48:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 571.57 Mbit/s

95th percentile per-packet one-way delay: 131.128 ms

Loss rate: 0.76%

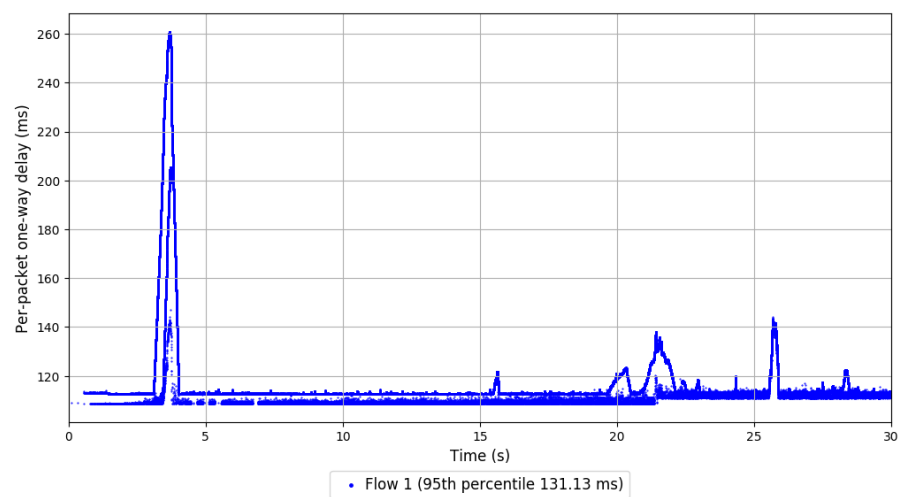
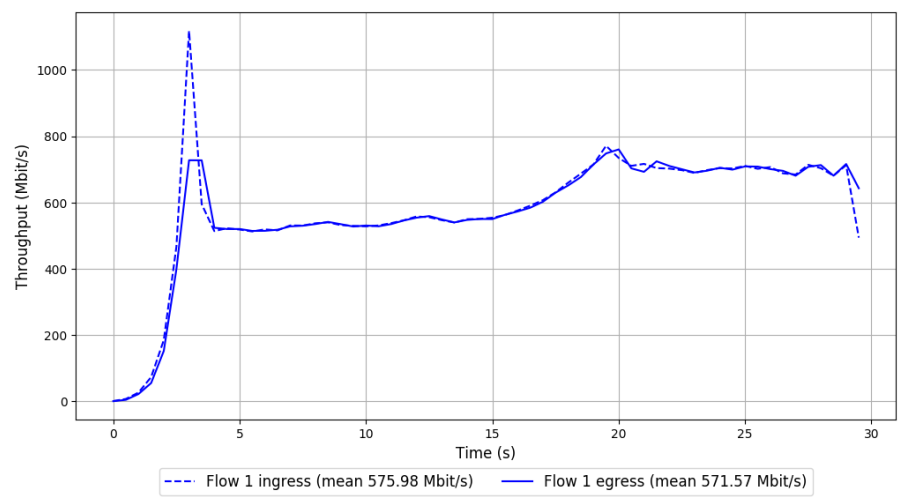
-- Flow 1:

Average throughput: 571.57 Mbit/s

95th percentile per-packet one-way delay: 131.128 ms

Loss rate: 0.76%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2017-12-11 10:32:46

End at: 2017-12-11 10:33:16

Below is generated by plot.py at 2017-12-11 11:48:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 568.45 Mbit/s

95th percentile per-packet one-way delay: 144.969 ms

Loss rate: 0.80%

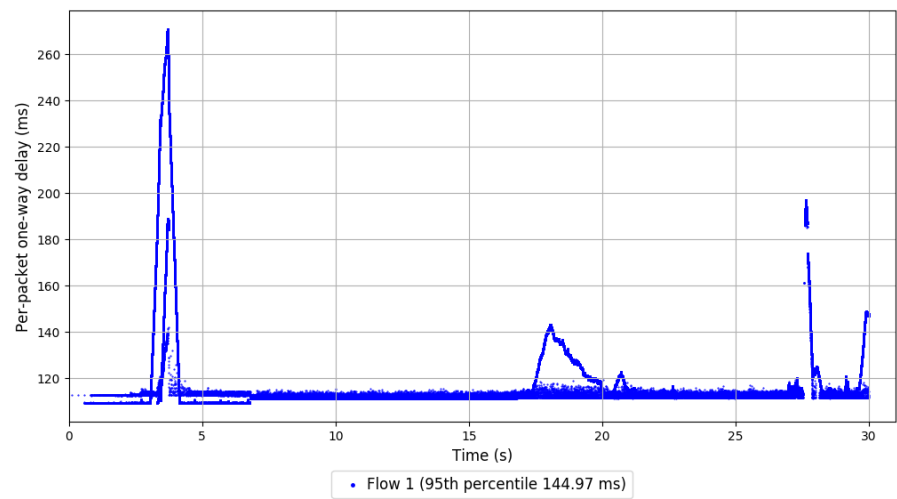
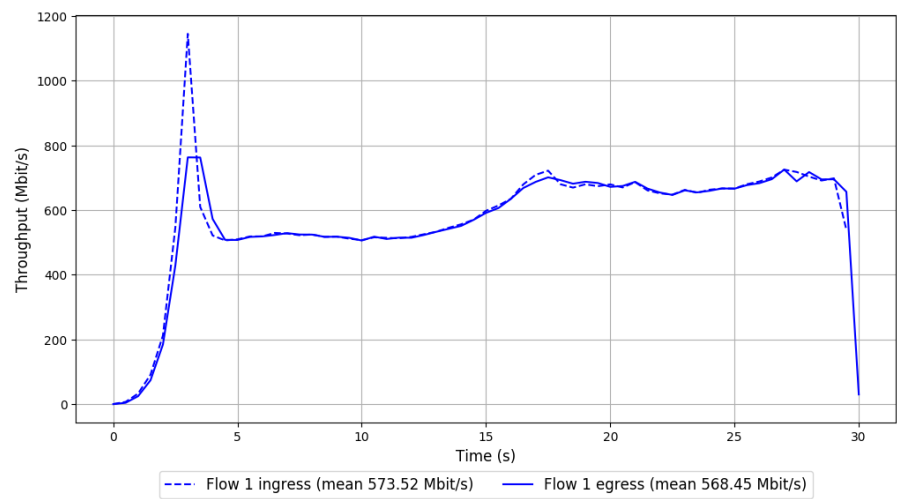
-- Flow 1:

Average throughput: 568.45 Mbit/s

95th percentile per-packet one-way delay: 144.969 ms

Loss rate: 0.80%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2017-12-11 10:43:32

End at: 2017-12-11 10:44:02

Below is generated by plot.py at 2017-12-11 11:57:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 579.67 Mbit/s

95th percentile per-packet one-way delay: 134.941 ms

Loss rate: 1.02%

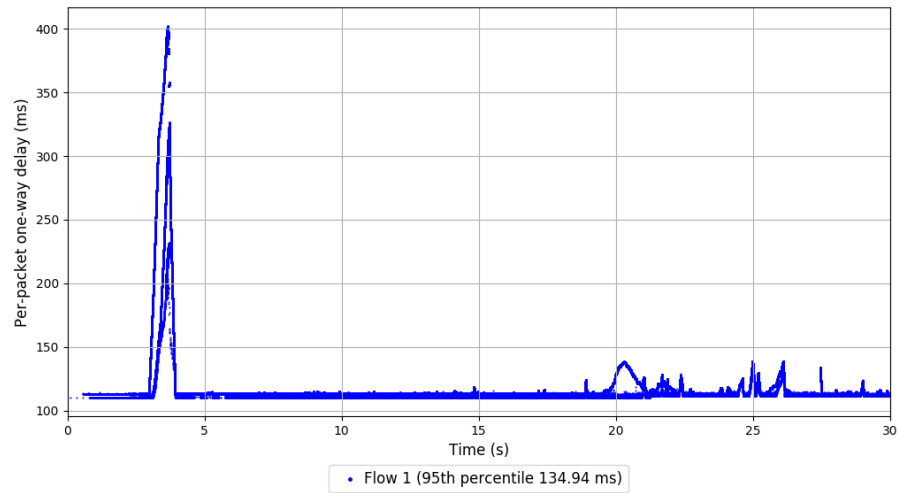
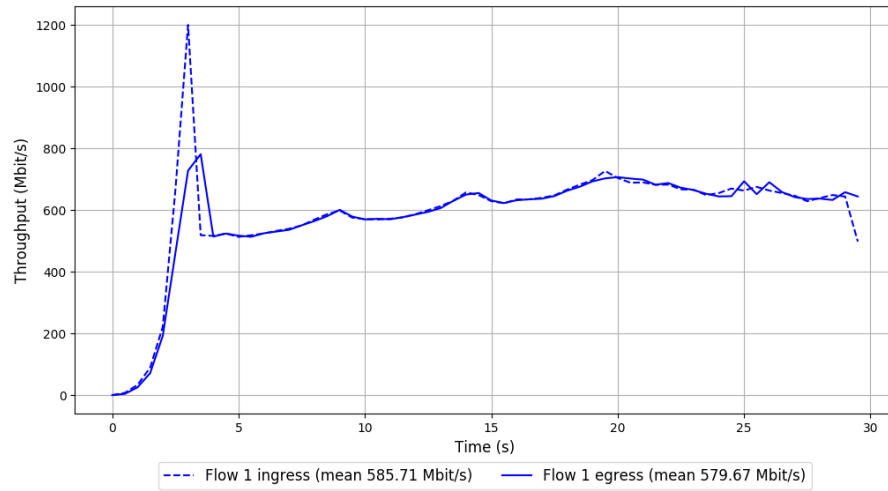
-- Flow 1:

Average throughput: 579.67 Mbit/s

95th percentile per-packet one-way delay: 134.941 ms

Loss rate: 1.02%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2017-12-11 10:54:18

End at: 2017-12-11 10:54:48

Below is generated by plot.py at 2017-12-11 11:57:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 596.78 Mbit/s

95th percentile per-packet one-way delay: 144.358 ms

Loss rate: 1.07%

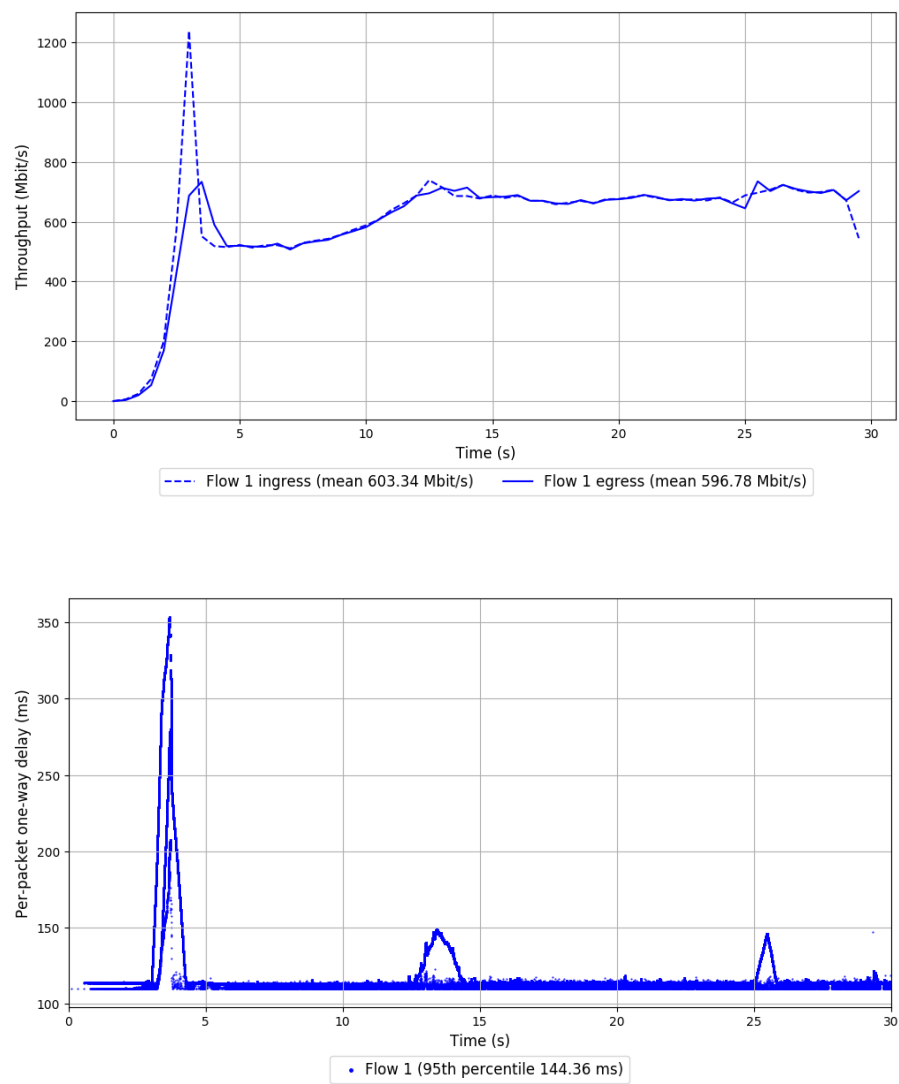
-- Flow 1:

Average throughput: 596.78 Mbit/s

95th percentile per-packet one-way delay: 144.358 ms

Loss rate: 1.07%

Run 10: Report of PCC — Data Link

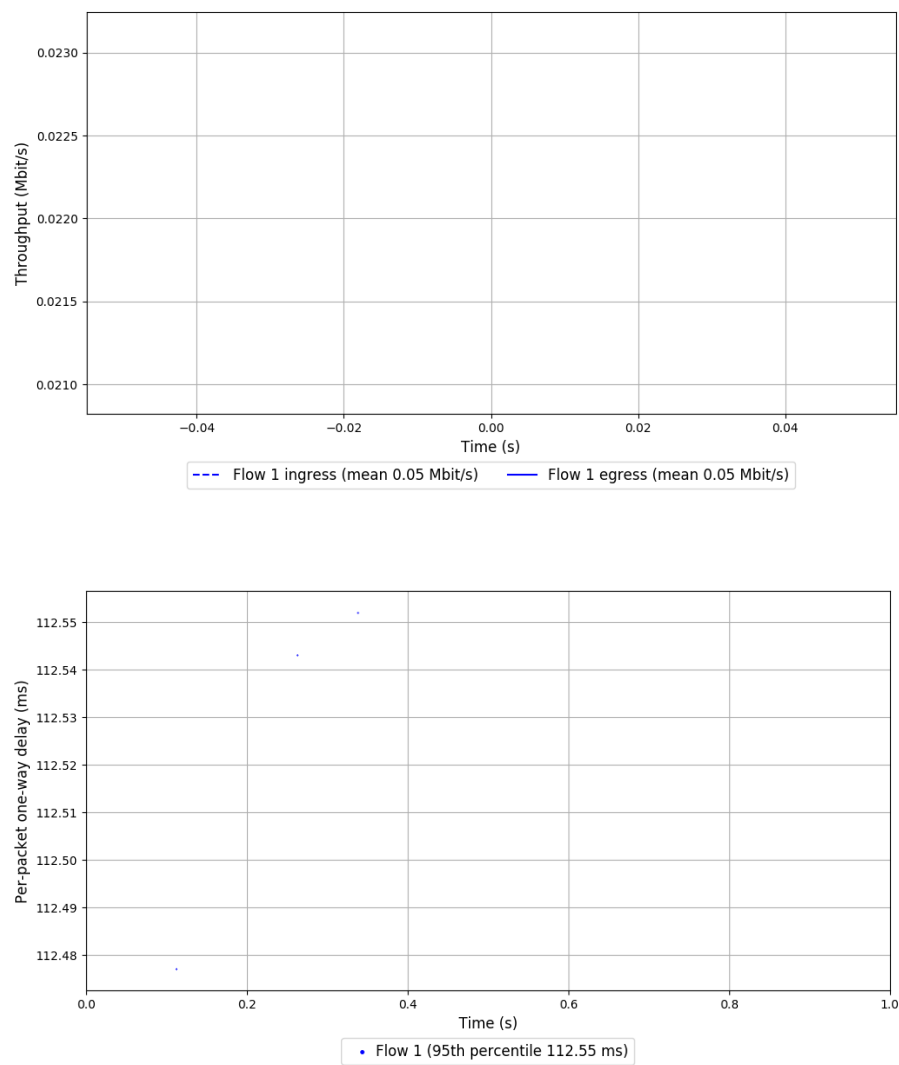


Run 1: Statistics of QUIC Cubic

Start at: 2017-12-11 09:18:53

End at: 2017-12-11 09:19:23

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2017-12-11 09:30:00

End at: 2017-12-11 09:30:30

Below is generated by plot.py at 2017-12-11 11:57:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 62.57 Mbit/s

95th percentile per-packet one-way delay: 111.963 ms

Loss rate: 0.00%

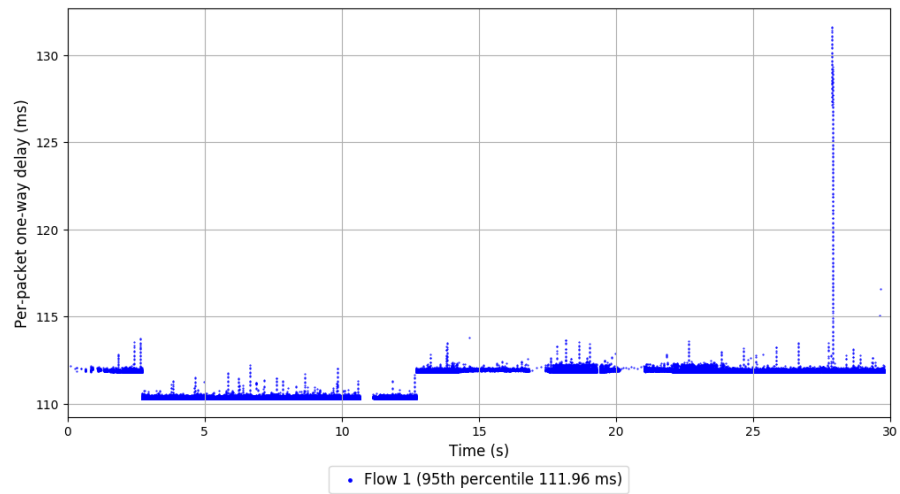
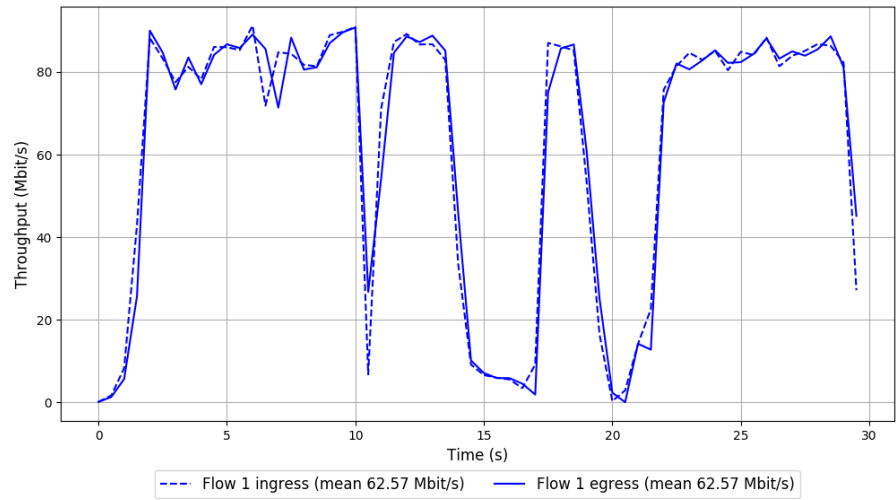
-- Flow 1:

Average throughput: 62.57 Mbit/s

95th percentile per-packet one-way delay: 111.963 ms

Loss rate: 0.00%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2017-12-11 09:41:05

End at: 2017-12-11 09:41:35

Below is generated by plot.py at 2017-12-11 11:57:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.49 Mbit/s

95th percentile per-packet one-way delay: 110.517 ms

Loss rate: 0.00%

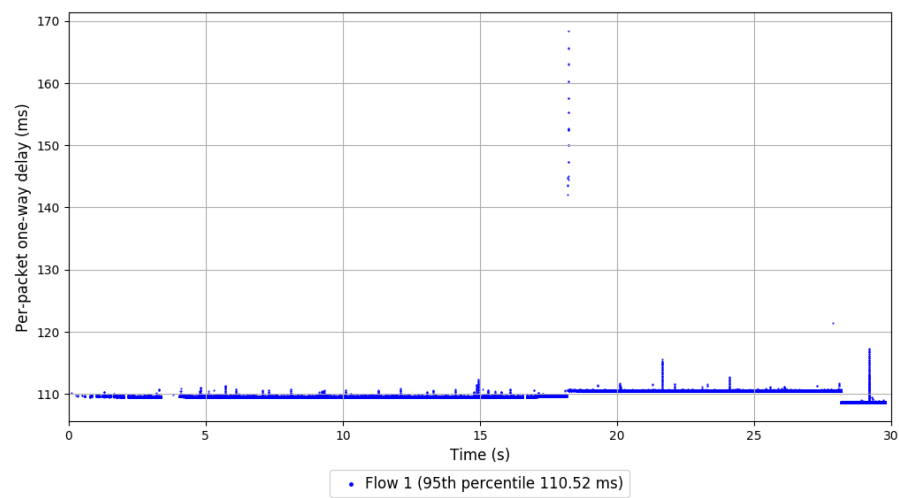
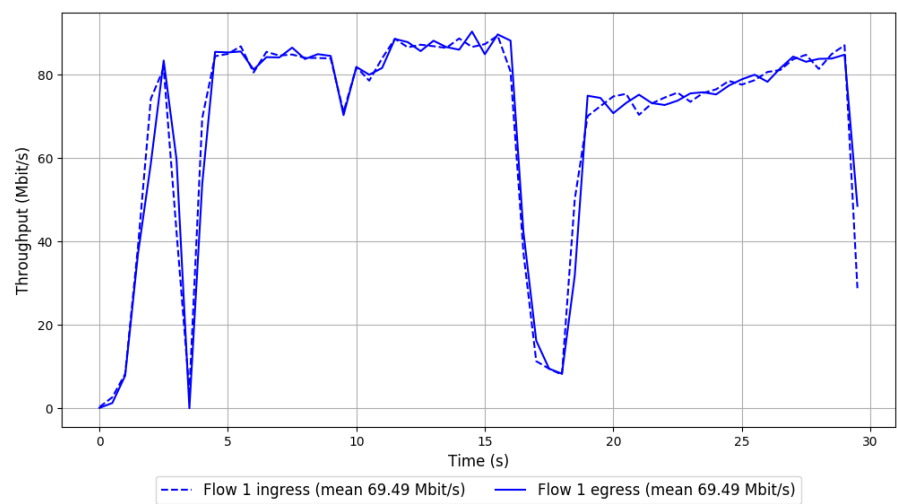
-- Flow 1:

Average throughput: 69.49 Mbit/s

95th percentile per-packet one-way delay: 110.517 ms

Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2017-12-11 09:52:04

End at: 2017-12-11 09:52:34

Below is generated by plot.py at 2017-12-11 11:57:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.64 Mbit/s

95th percentile per-packet one-way delay: 111.962 ms

Loss rate: 0.00%

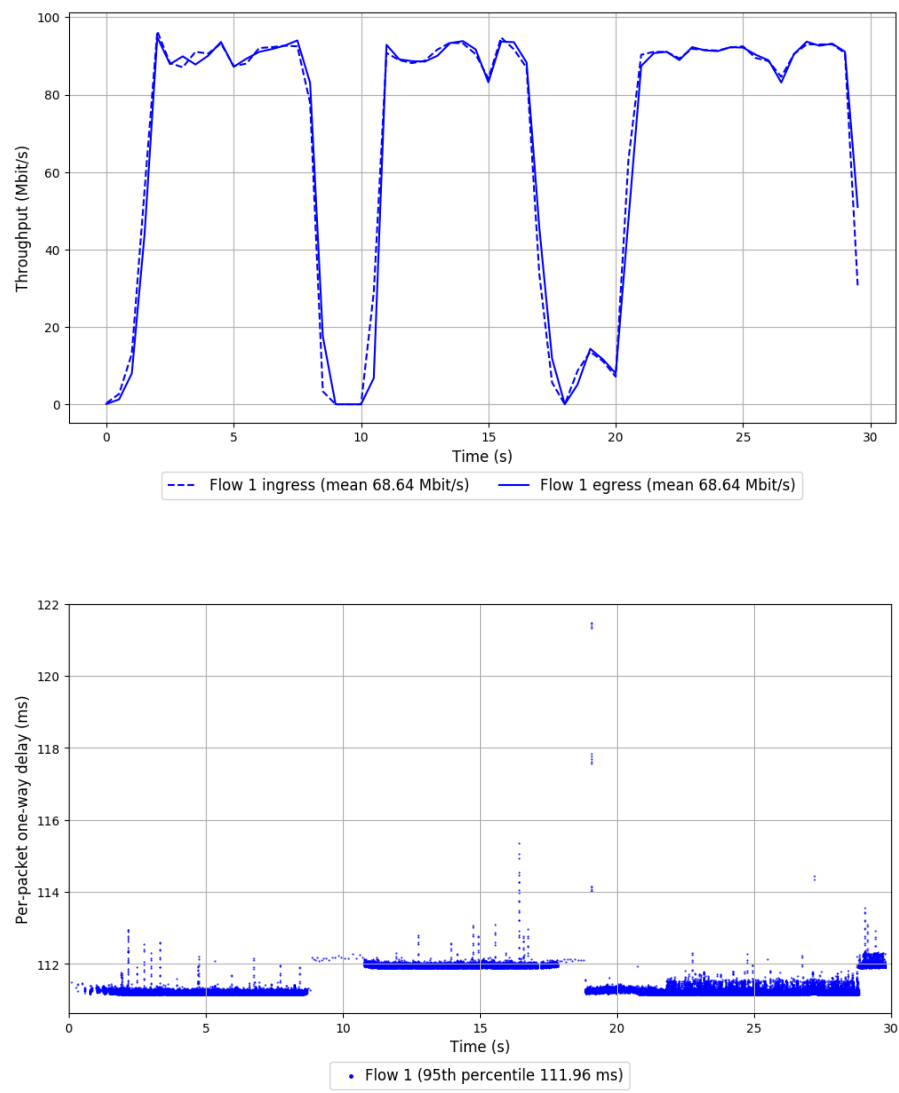
-- Flow 1:

Average throughput: 68.64 Mbit/s

95th percentile per-packet one-way delay: 111.962 ms

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2017-12-11 10:02:57

End at: 2017-12-11 10:03:27

Below is generated by plot.py at 2017-12-11 11:57:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.79 Mbit/s

95th percentile per-packet one-way delay: 112.458 ms

Loss rate: 0.00%

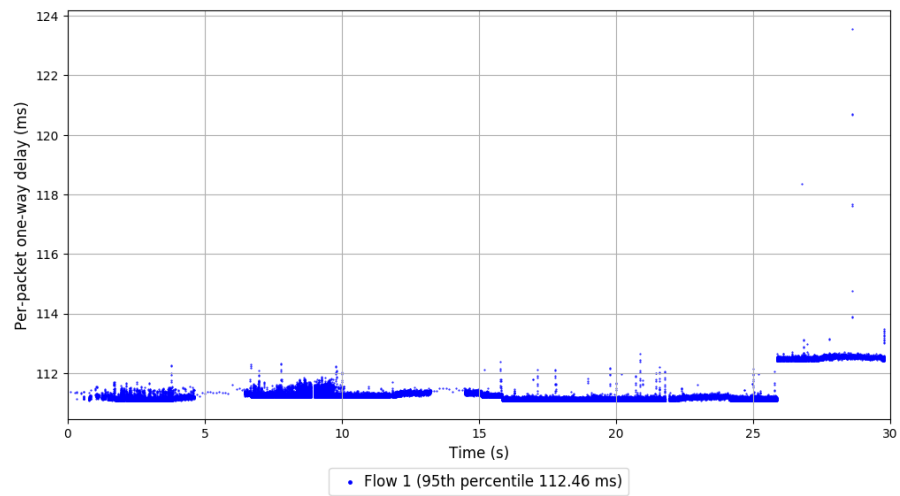
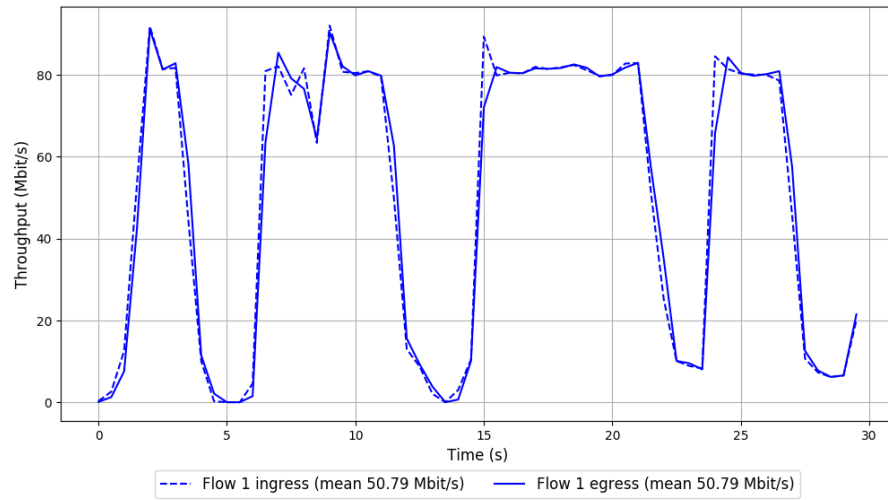
-- Flow 1:

Average throughput: 50.79 Mbit/s

95th percentile per-packet one-way delay: 112.458 ms

Loss rate: 0.00%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2017-12-11 10:14:06

End at: 2017-12-11 10:14:36

Below is generated by plot.py at 2017-12-11 11:57:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.83 Mbit/s

95th percentile per-packet one-way delay: 112.355 ms

Loss rate: 0.01%

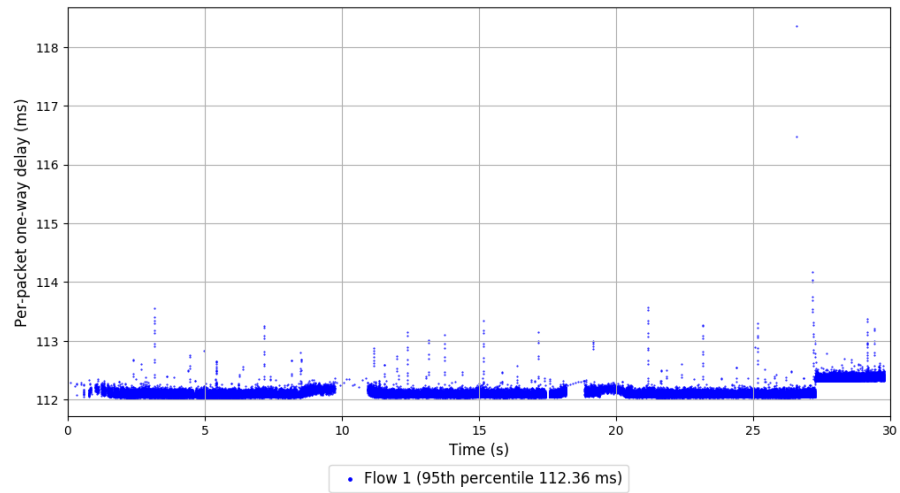
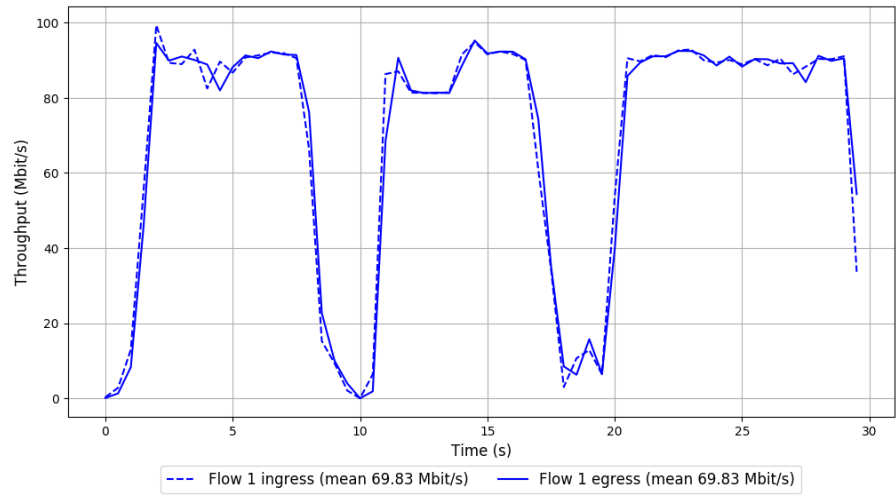
-- Flow 1:

Average throughput: 69.83 Mbit/s

95th percentile per-packet one-way delay: 112.355 ms

Loss rate: 0.01%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2017-12-11 10:25:04

End at: 2017-12-11 10:25:34

Below is generated by plot.py at 2017-12-11 11:57:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 55.38 Mbit/s

95th percentile per-packet one-way delay: 112.461 ms

Loss rate: 0.00%

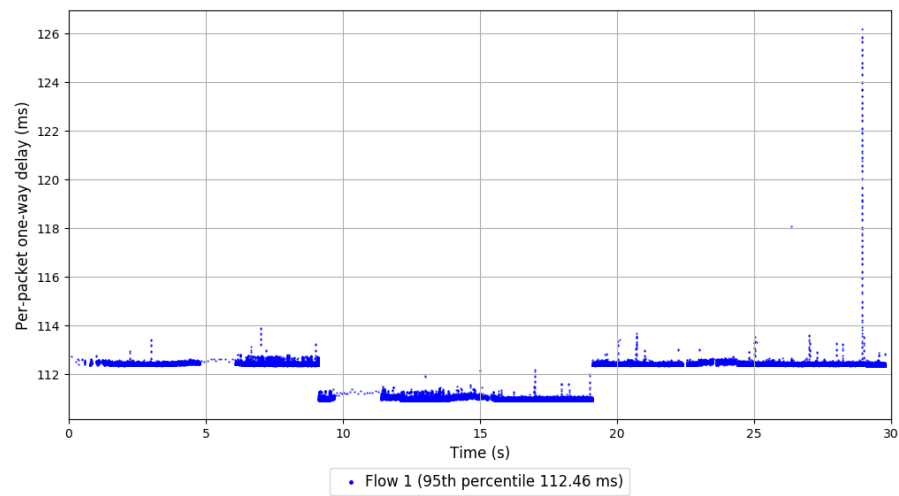
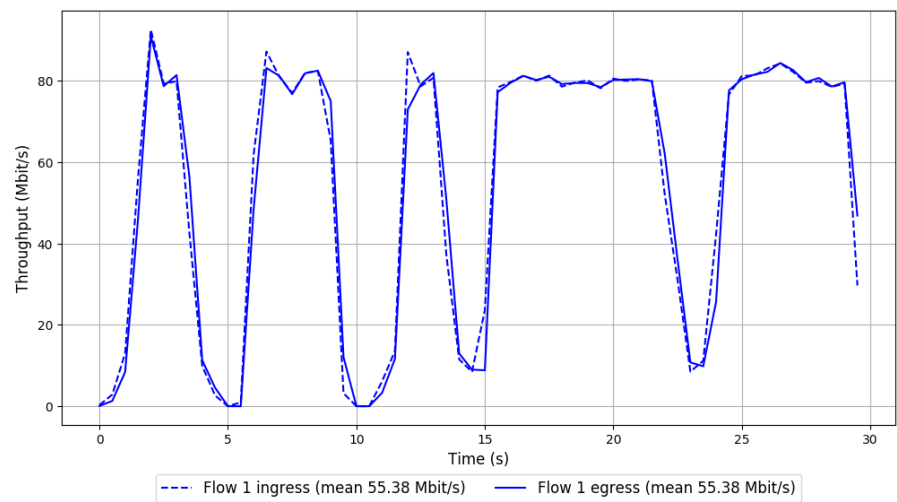
-- Flow 1:

Average throughput: 55.38 Mbit/s

95th percentile per-packet one-way delay: 112.461 ms

Loss rate: 0.00%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2017-12-11 10:36:07

End at: 2017-12-11 10:36:37

Below is generated by plot.py at 2017-12-11 11:57:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.21 Mbit/s

95th percentile per-packet one-way delay: 112.021 ms

Loss rate: 0.00%

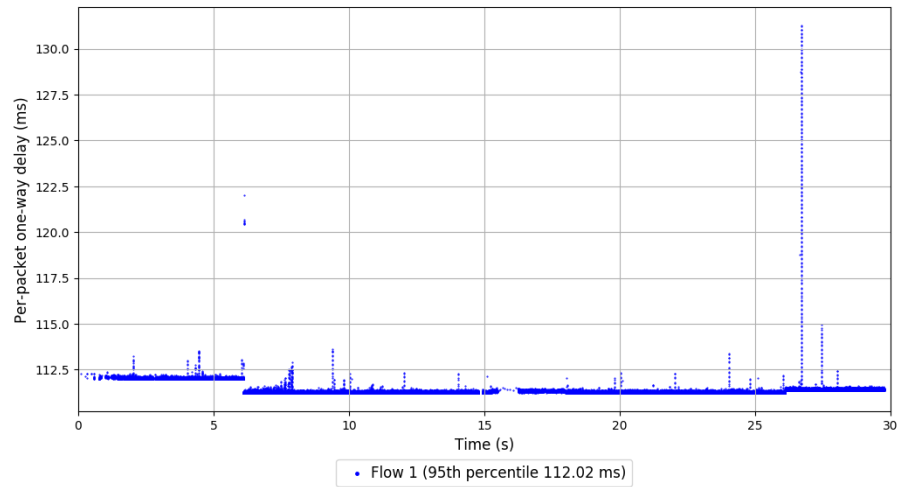
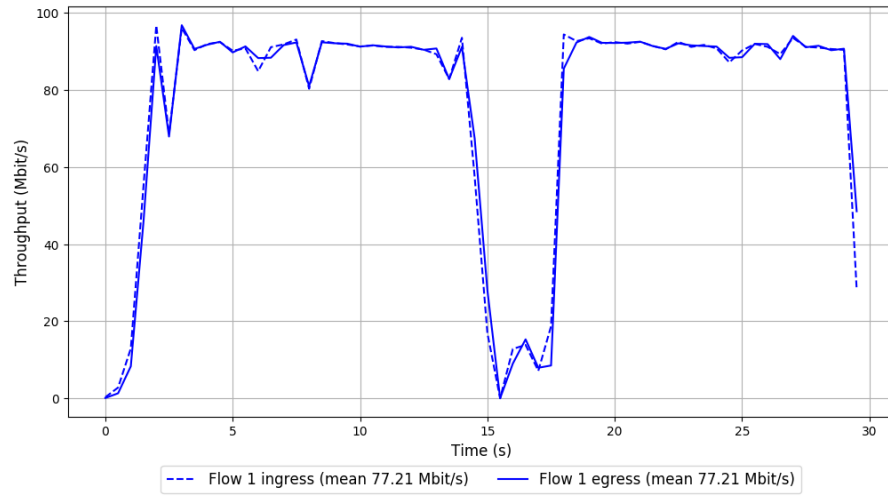
-- Flow 1:

Average throughput: 77.21 Mbit/s

95th percentile per-packet one-way delay: 112.021 ms

Loss rate: 0.00%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2017-12-11 10:46:53

End at: 2017-12-11 10:47:23

Below is generated by plot.py at 2017-12-11 11:57:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.78 Mbit/s

95th percentile per-packet one-way delay: 112.475 ms

Loss rate: 0.01%

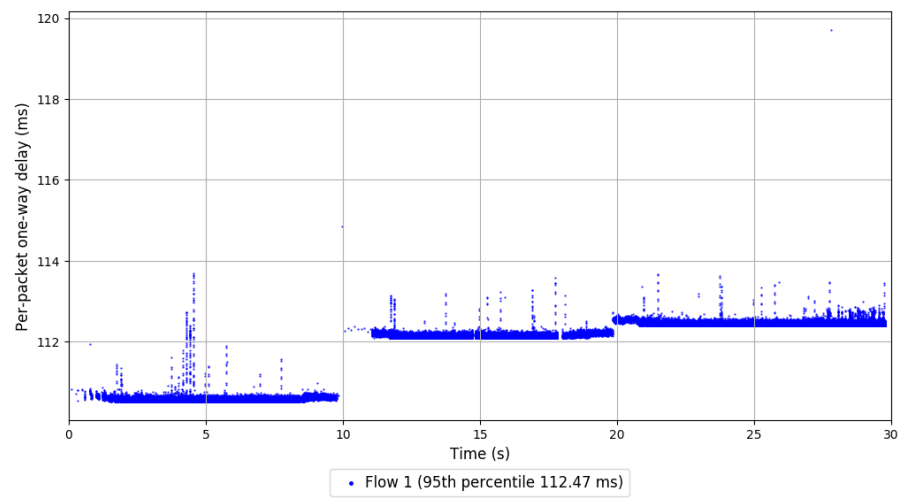
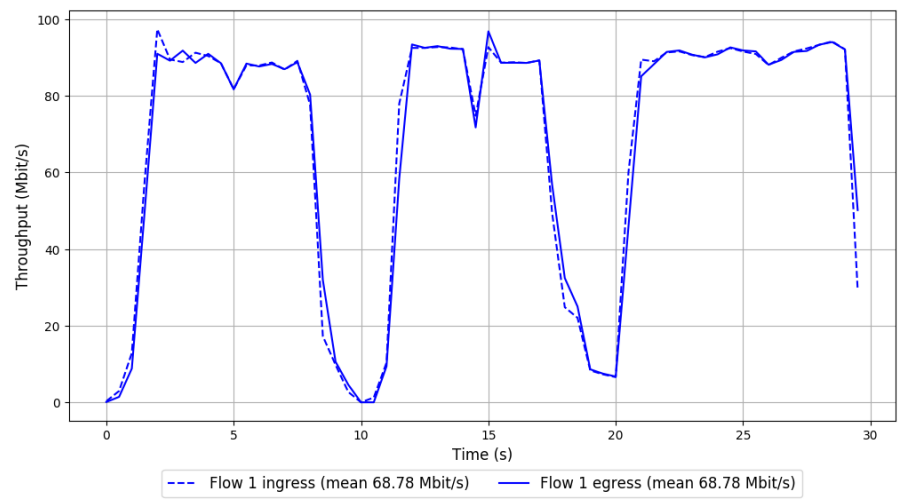
-- Flow 1:

Average throughput: 68.78 Mbit/s

95th percentile per-packet one-way delay: 112.475 ms

Loss rate: 0.01%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2017-12-11 10:57:40

End at: 2017-12-11 10:58:10

Below is generated by plot.py at 2017-12-11 11:57:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 56.99 Mbit/s

95th percentile per-packet one-way delay: 110.478 ms

Loss rate: 0.00%

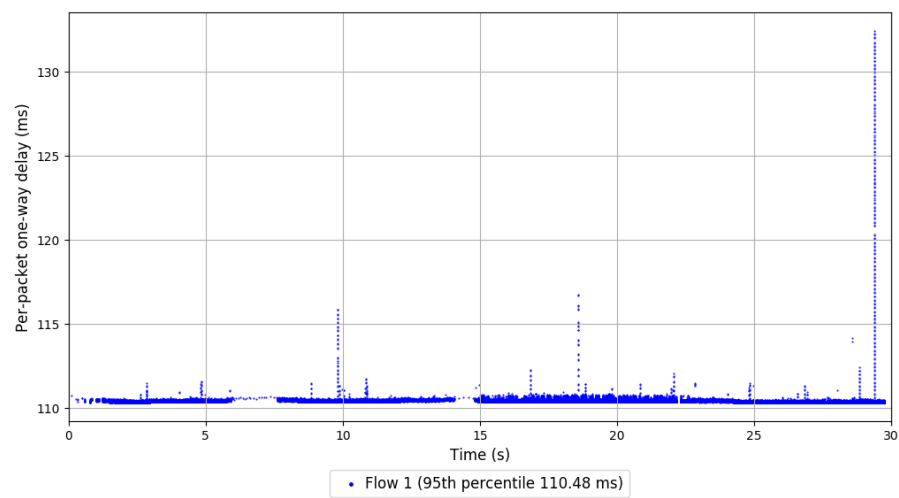
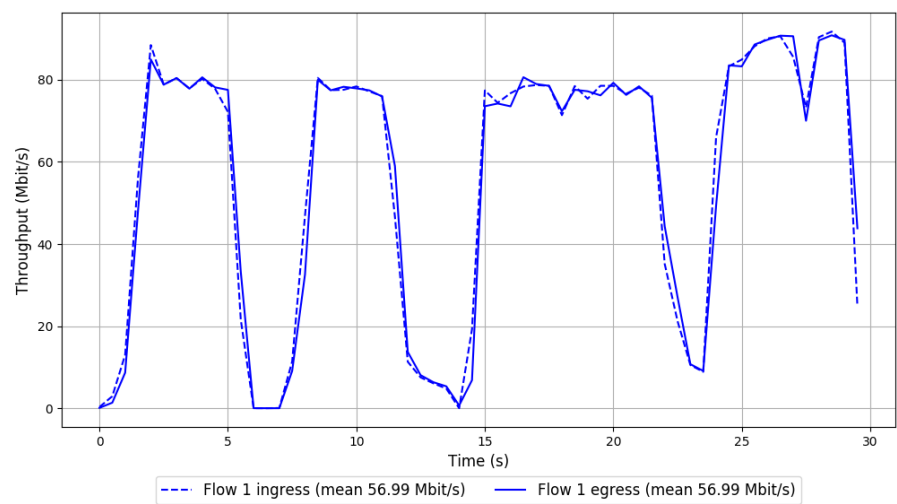
-- Flow 1:

Average throughput: 56.99 Mbit/s

95th percentile per-packet one-way delay: 110.478 ms

Loss rate: 0.00%

Run 10: Report of QUIC Cubic — Data Link

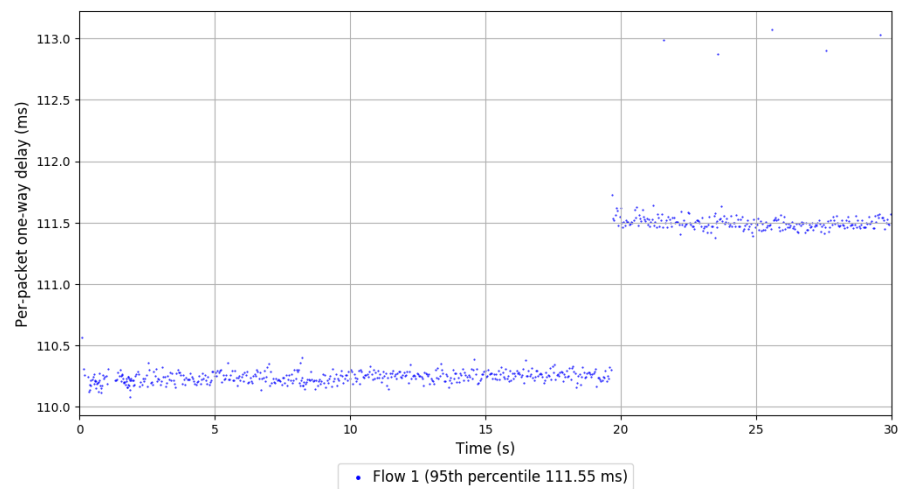
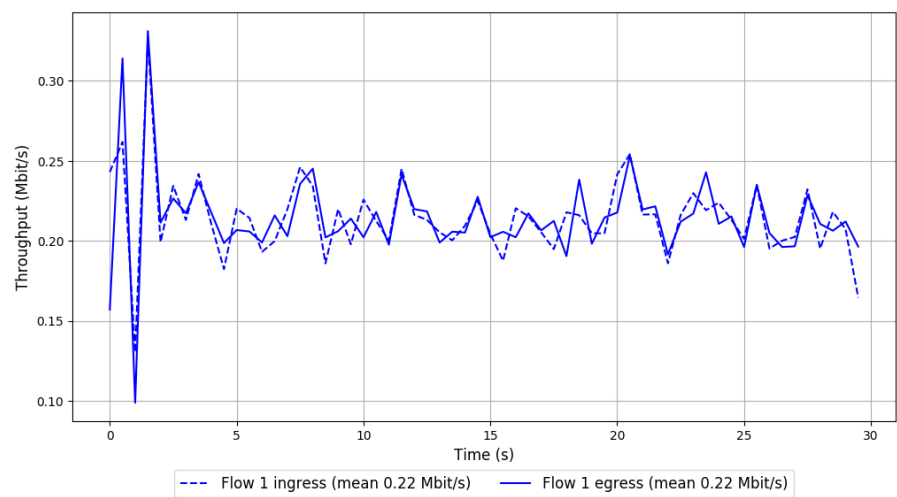


```
Run 1: Statistics of SCReAM

Start at: 2017-12-11 09:20:14
End at: 2017-12-11 09:20:44

# Below is generated by plot.py at 2017-12-11 11:57:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 111.549 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 111.549 ms
Loss rate: 0.13%
```

Run 1: Report of SReAM — Data Link

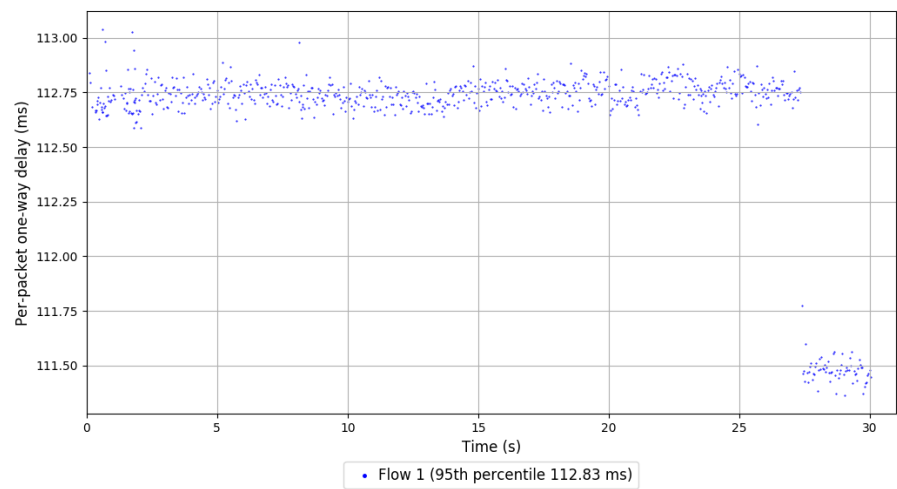
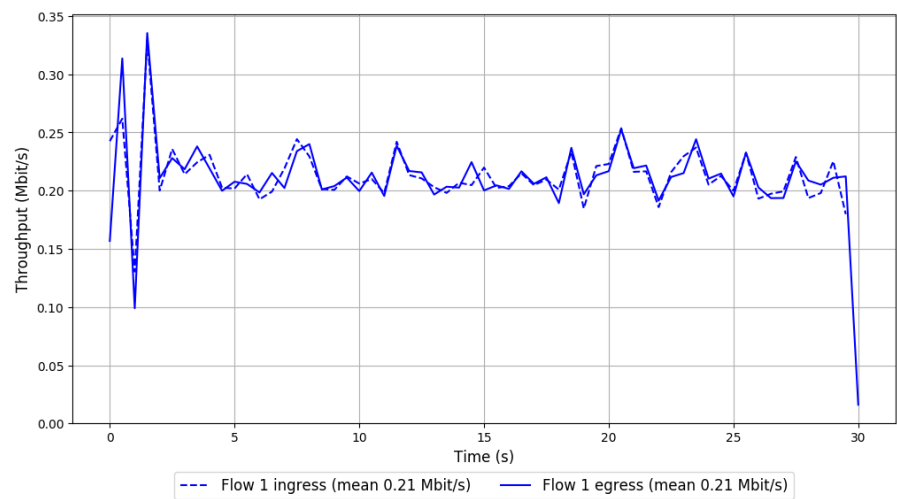


```
Run 2: Statistics of SCReAM

Start at: 2017-12-11 09:31:26
End at: 2017-12-11 09:31:56

# Below is generated by plot.py at 2017-12-11 11:57:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 112.833 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 112.833 ms
Loss rate: 0.00%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2017-12-11 09:42:35

End at: 2017-12-11 09:43:05

Below is generated by plot.py at 2017-12-11 11:57:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 112.310 ms

Loss rate: 0.00%

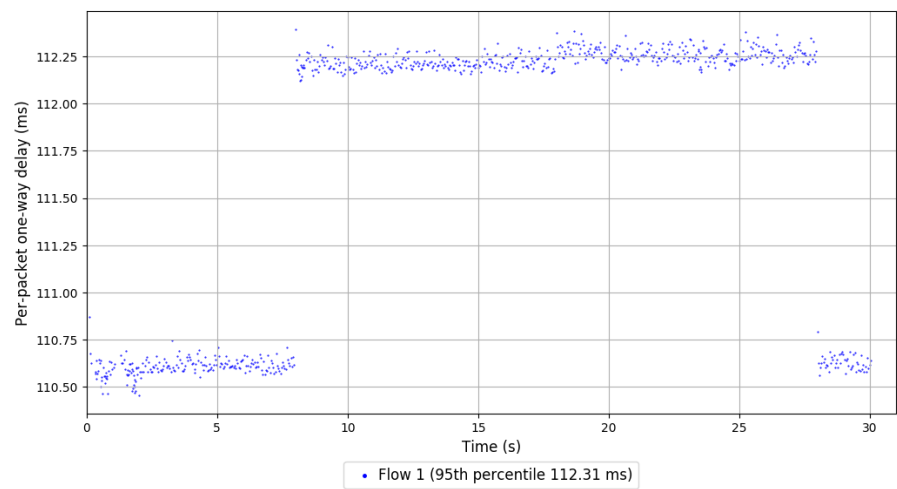
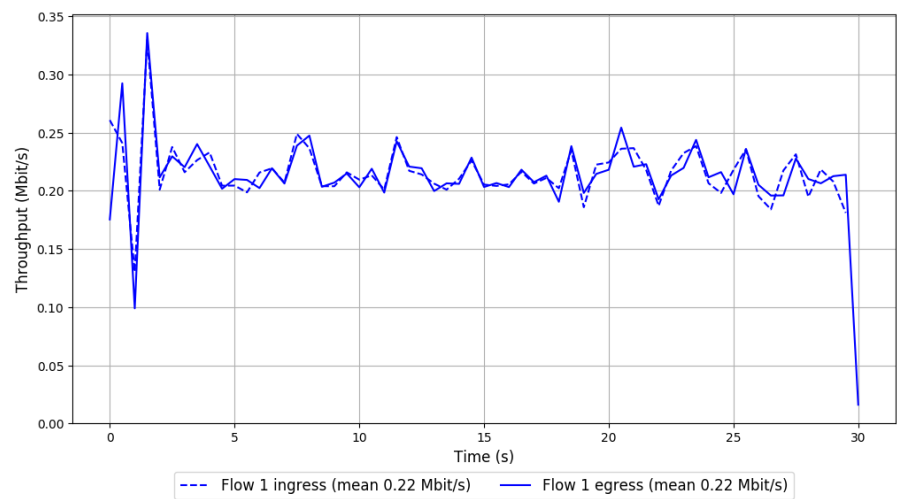
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 112.310 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2017-12-11 09:53:30

End at: 2017-12-11 09:54:00

Below is generated by plot.py at 2017-12-11 11:57:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 110.695 ms

Loss rate: 0.00%

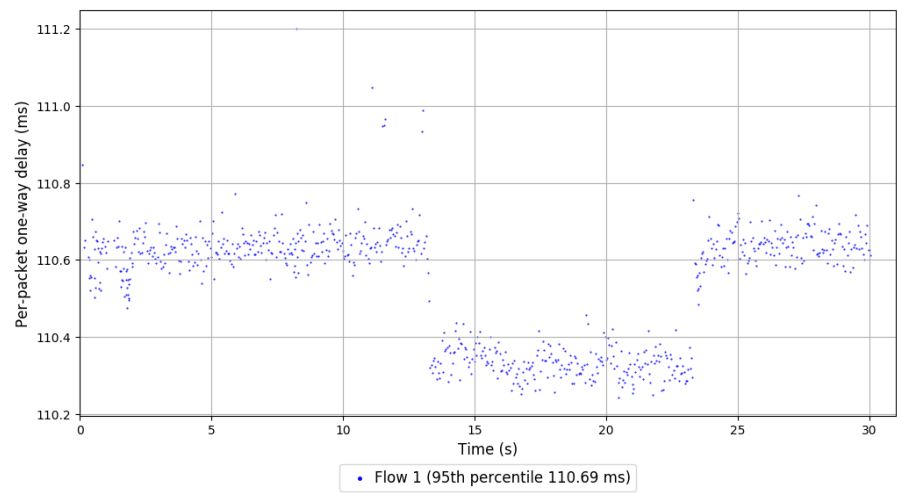
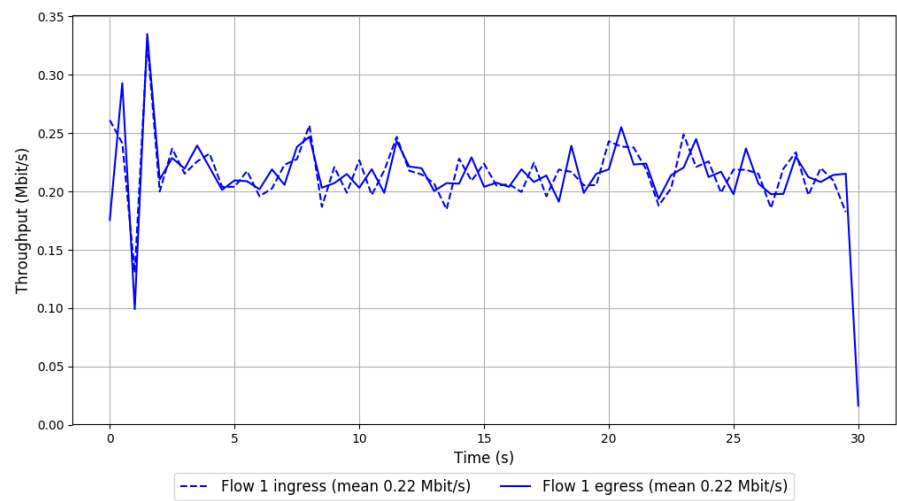
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 110.695 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2017-12-11 10:04:26

End at: 2017-12-11 10:04:56

Below is generated by plot.py at 2017-12-11 11:57:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 112.696 ms

Loss rate: 0.00%

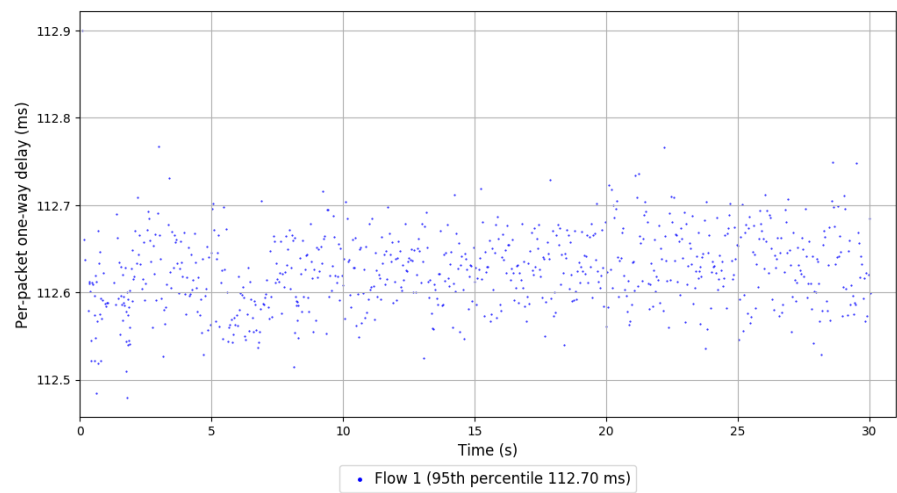
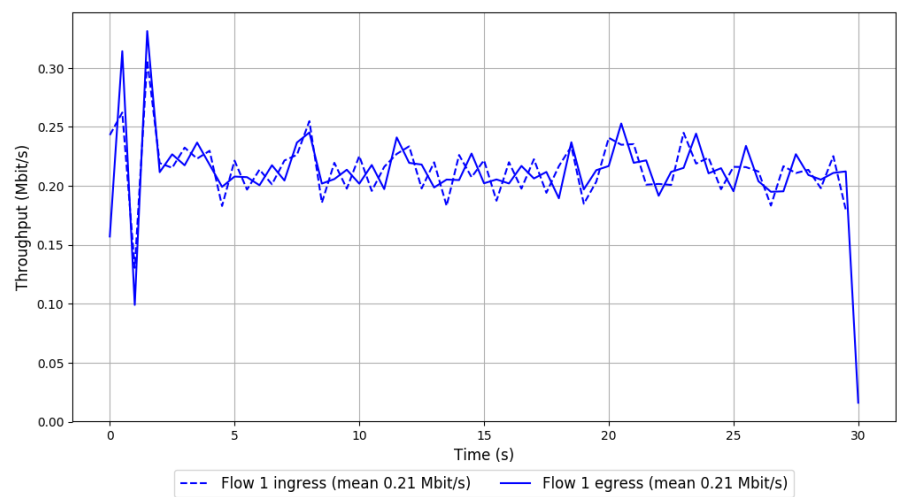
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 112.696 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2017-12-11 10:15:36

End at: 2017-12-11 10:16:06

Below is generated by plot.py at 2017-12-11 11:57:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 111.395 ms

Loss rate: 0.00%

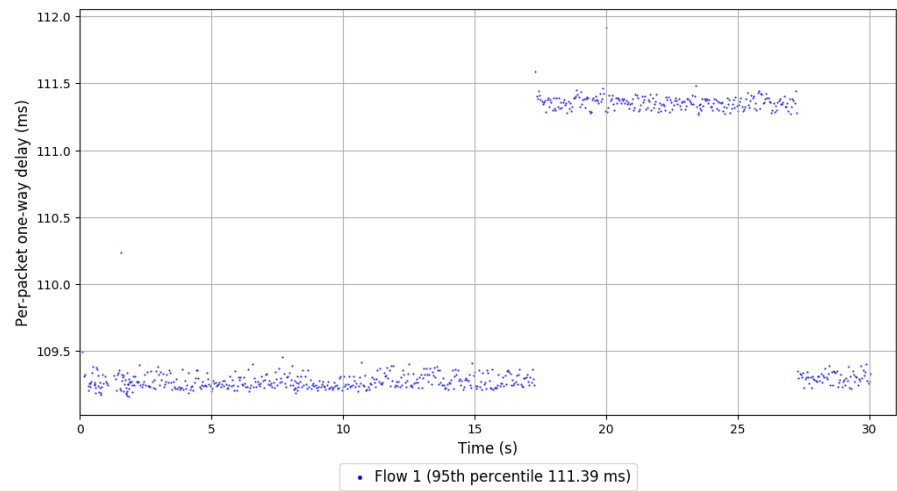
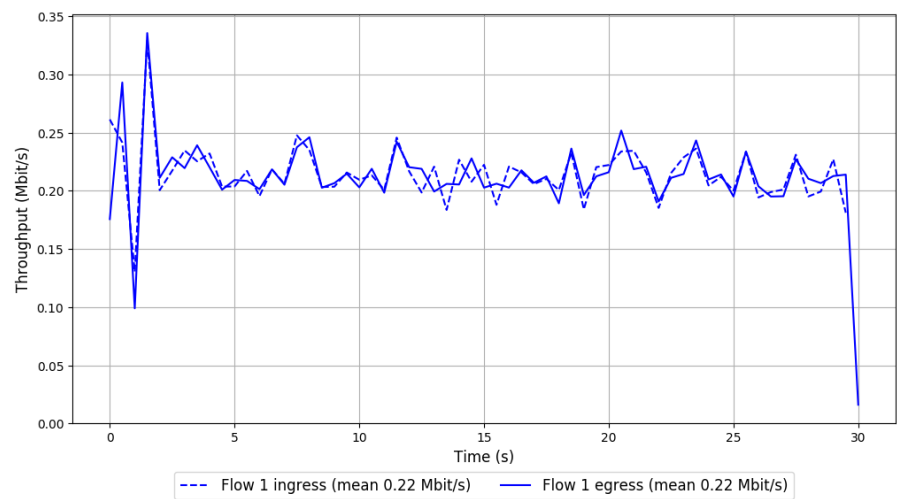
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 111.395 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link

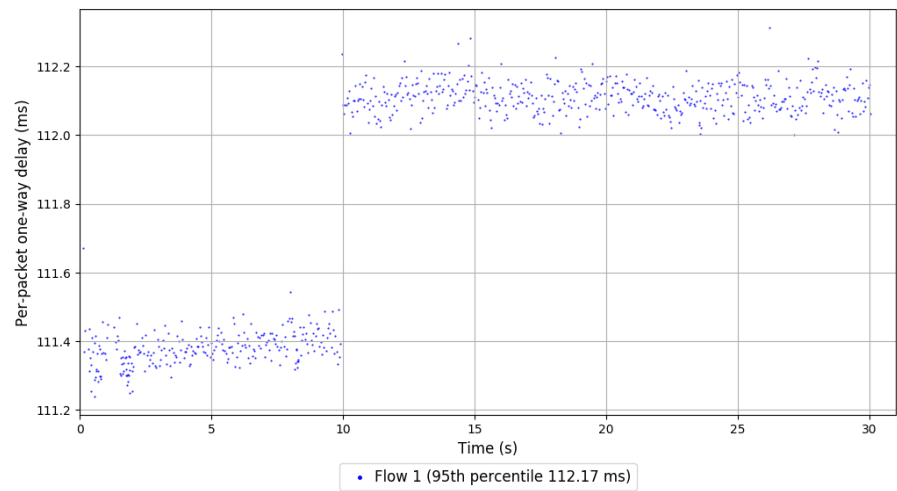
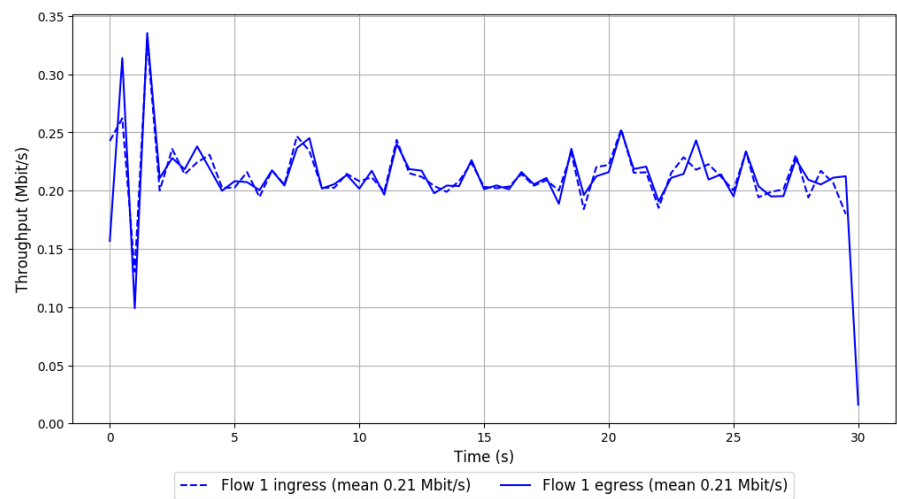


```
Run 7: Statistics of SCReAM

Start at: 2017-12-11 10:26:33
End at: 2017-12-11 10:27:03

# Below is generated by plot.py at 2017-12-11 11:57:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 112.168 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 112.168 ms
Loss rate: 0.00%
```


Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2017-12-11 10:37:37

End at: 2017-12-11 10:38:07

Below is generated by plot.py at 2017-12-11 11:57:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 112.181 ms

Loss rate: 0.00%

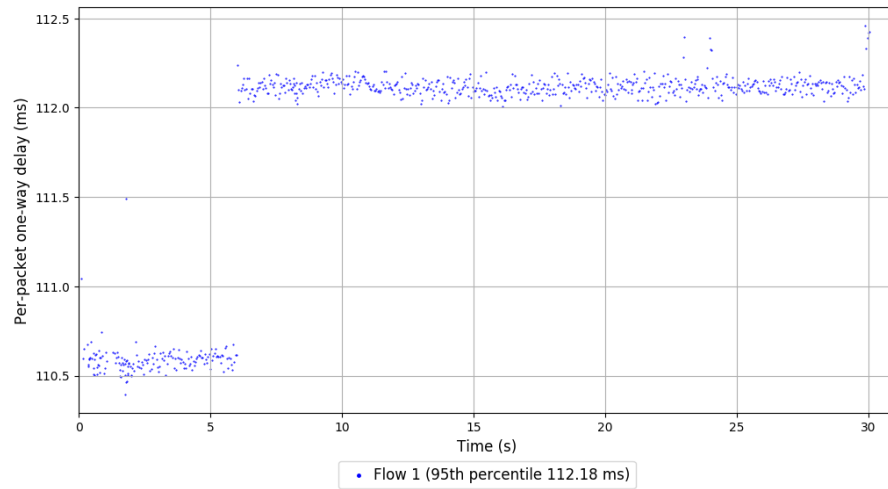
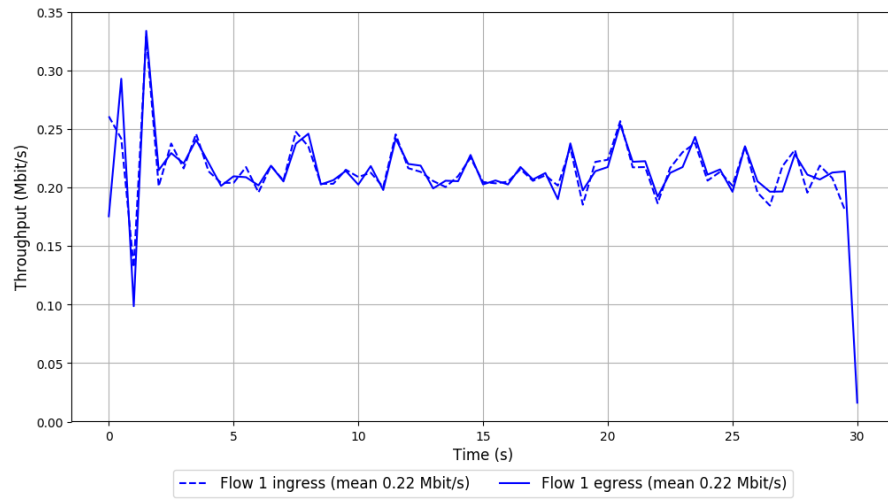
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 112.181 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2017-12-11 10:48:19

End at: 2017-12-11 10:48:49

Below is generated by plot.py at 2017-12-11 11:57:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 112.646 ms

Loss rate: 0.00%

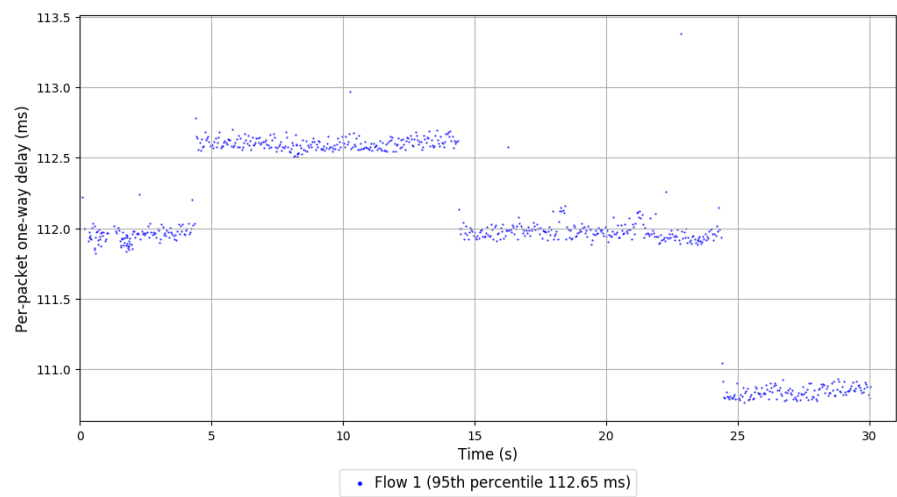
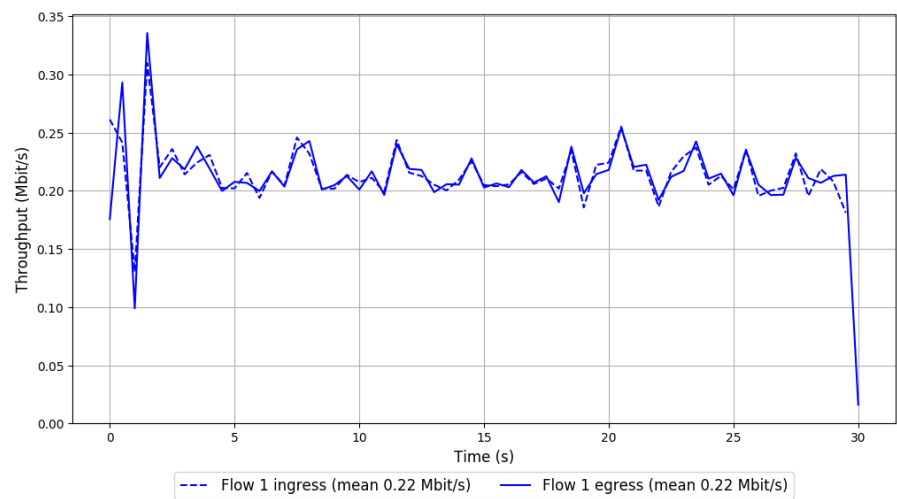
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 112.646 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2017-12-11 10:59:09

End at: 2017-12-11 10:59:39

Below is generated by plot.py at 2017-12-11 11:57:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 111.390 ms

Loss rate: 0.00%

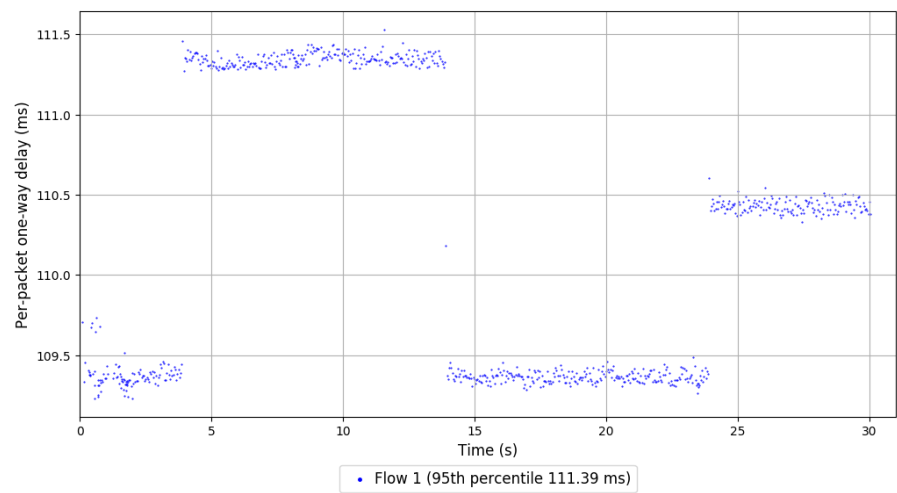
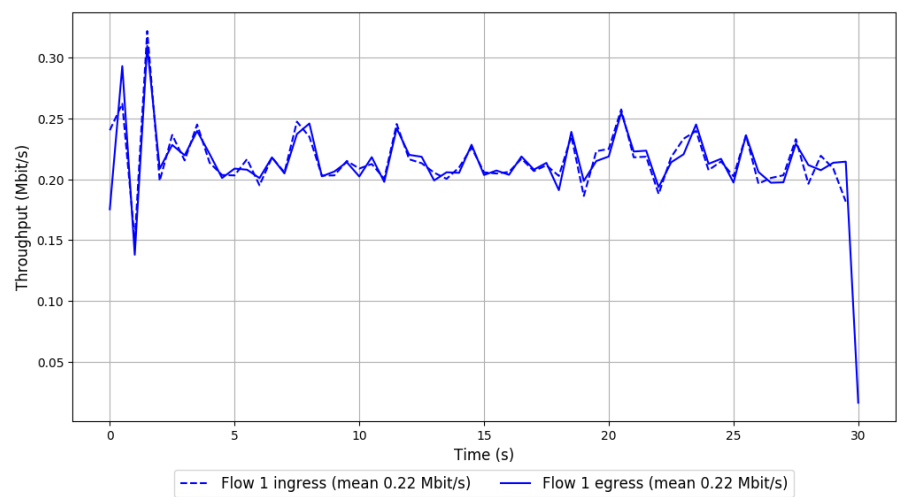
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 111.390 ms

Loss rate: 0.00%

Run 10: Report of SCReAM — Data Link

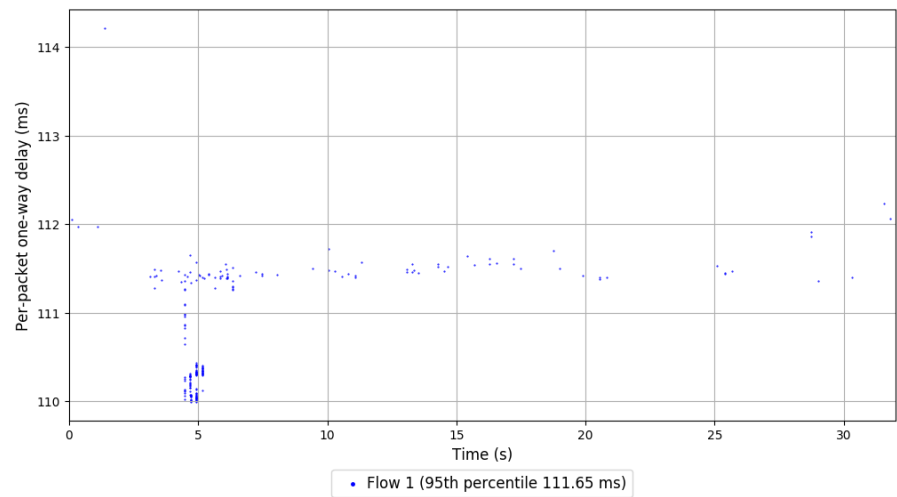
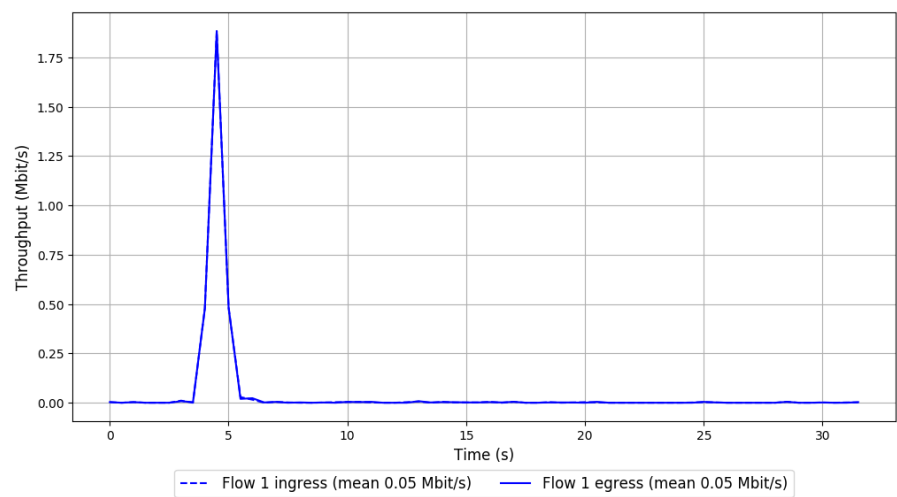


```
Run 1: Statistics of WebRTC media

Start at: 2017-12-11 09:11:25
End at: 2017-12-11 09:11:55

# Below is generated by plot.py at 2017-12-11 11:57:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 111.652 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 111.652 ms
Loss rate: 0.00%
```


Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2017-12-11 09:22:29

End at: 2017-12-11 09:22:59

Below is generated by plot.py at 2017-12-11 11:57:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.14 Mbit/s

95th percentile per-packet one-way delay: 112.326 ms

Loss rate: 0.00%

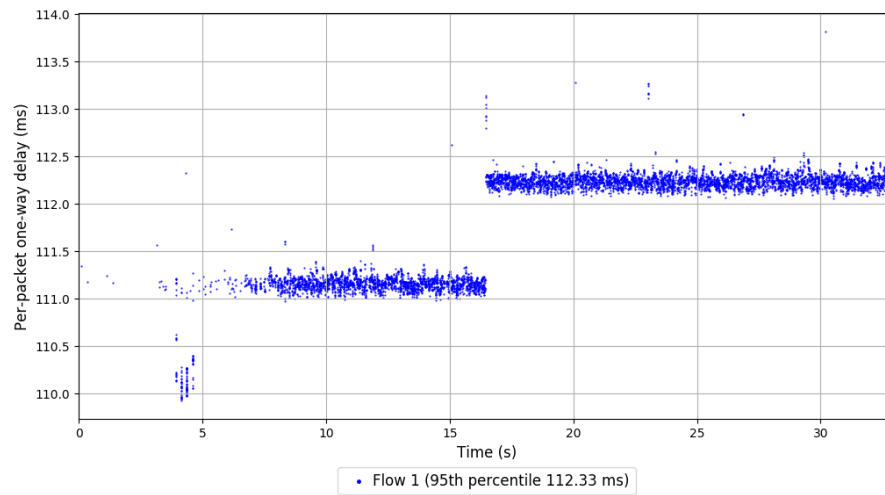
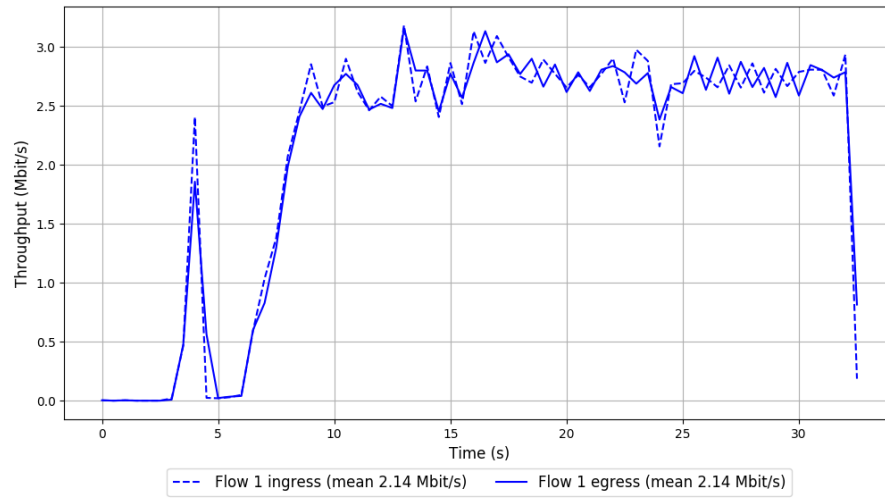
-- Flow 1:

Average throughput: 2.14 Mbit/s

95th percentile per-packet one-way delay: 112.326 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2017-12-11 09:33:42

End at: 2017-12-11 09:34:12

Below is generated by plot.py at 2017-12-11 11:57:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.13 Mbit/s

95th percentile per-packet one-way delay: 108.692 ms

Loss rate: 0.09%

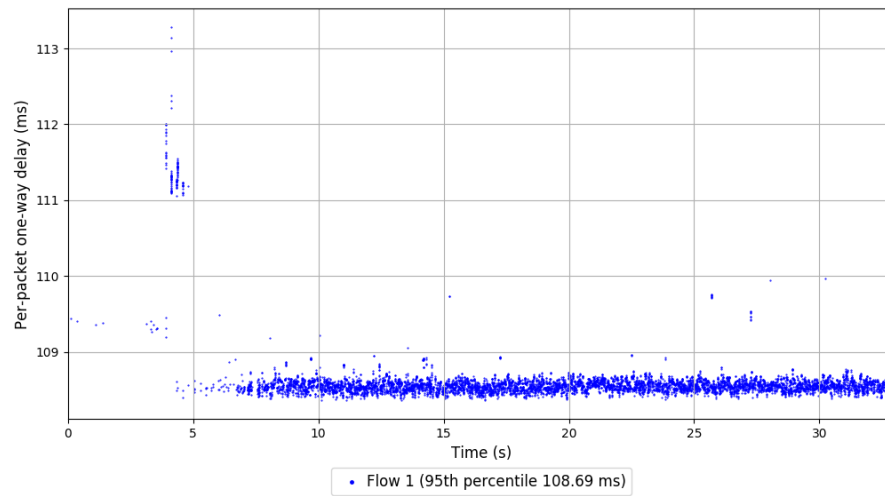
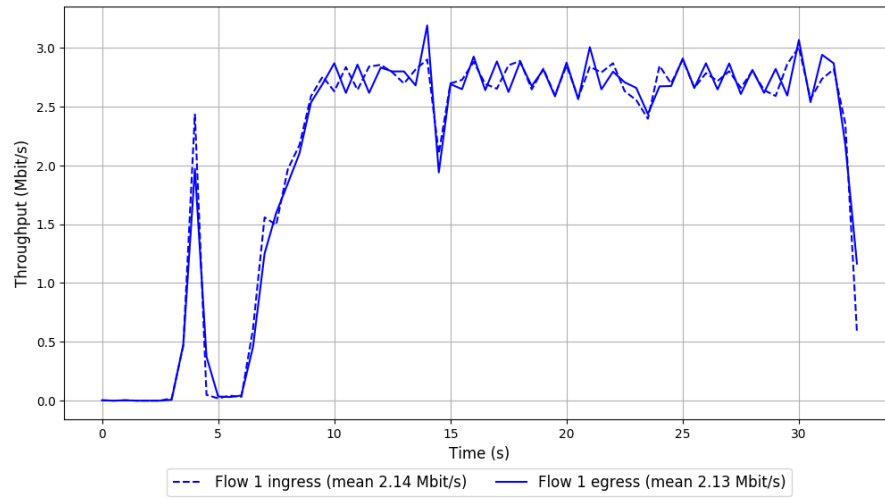
-- Flow 1:

Average throughput: 2.13 Mbit/s

95th percentile per-packet one-way delay: 108.692 ms

Loss rate: 0.09%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2017-12-11 09:44:50

End at: 2017-12-11 09:45:20

Below is generated by plot.py at 2017-12-11 11:57:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.16 Mbit/s

95th percentile per-packet one-way delay: 112.513 ms

Loss rate: 0.00%

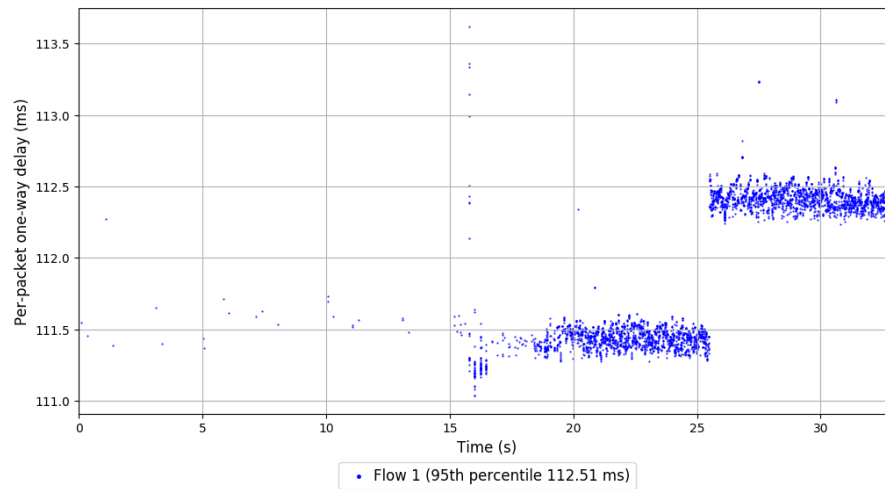
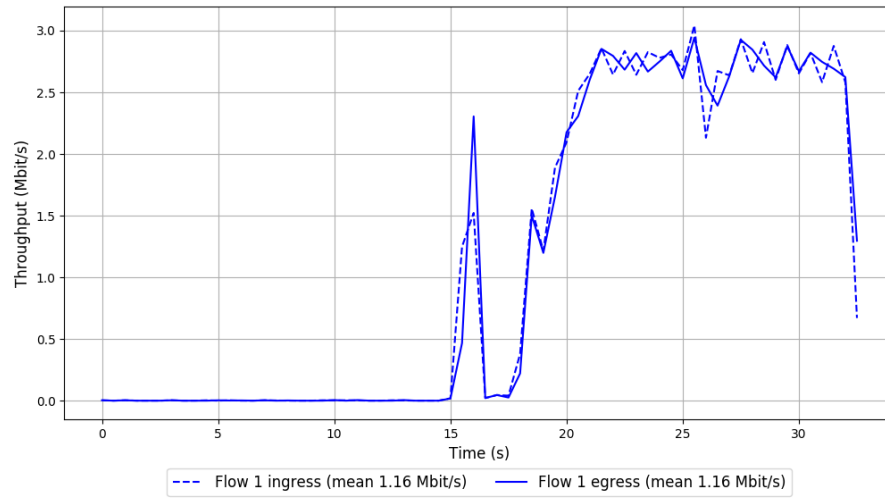
-- Flow 1:

Average throughput: 1.16 Mbit/s

95th percentile per-packet one-way delay: 112.513 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2017-12-11 09:55:39

End at: 2017-12-11 09:56:09

Below is generated by plot.py at 2017-12-11 11:57:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 110.670 ms

Loss rate: 0.00%

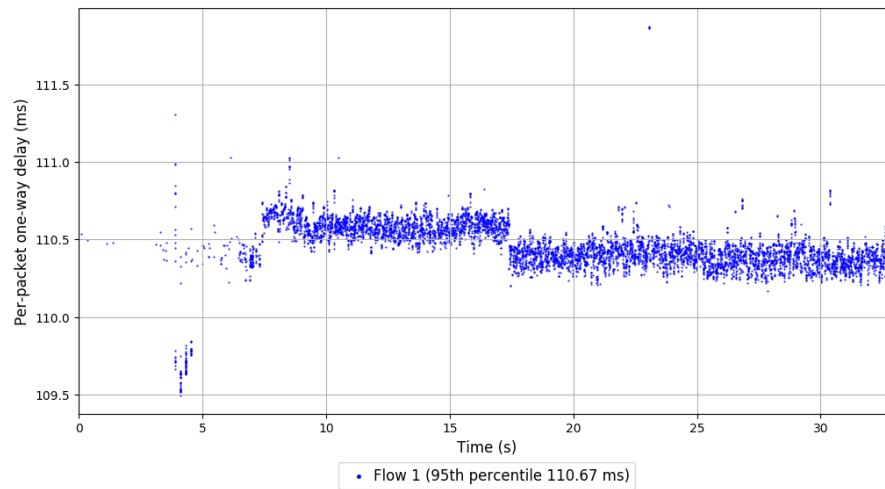
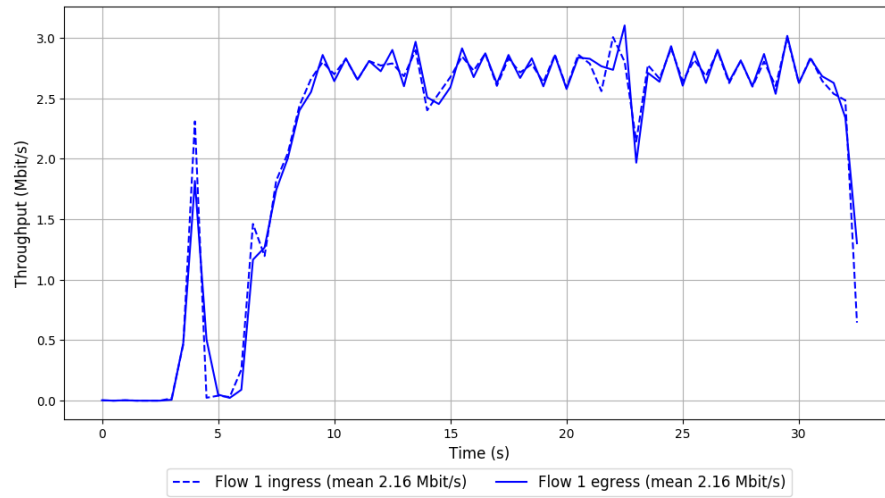
-- Flow 1:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 110.670 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2017-12-11 10:06:42

End at: 2017-12-11 10:07:12

Below is generated by plot.py at 2017-12-11 11:57:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 112.312 ms

Loss rate: 0.00%

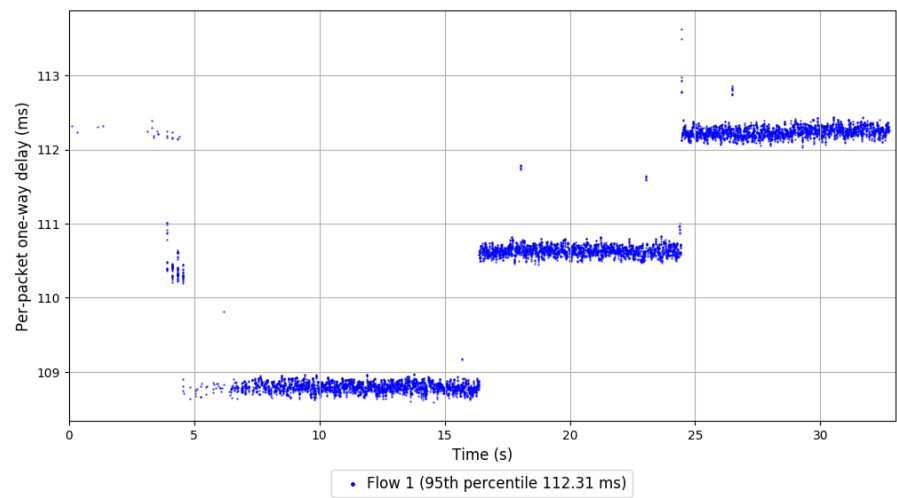
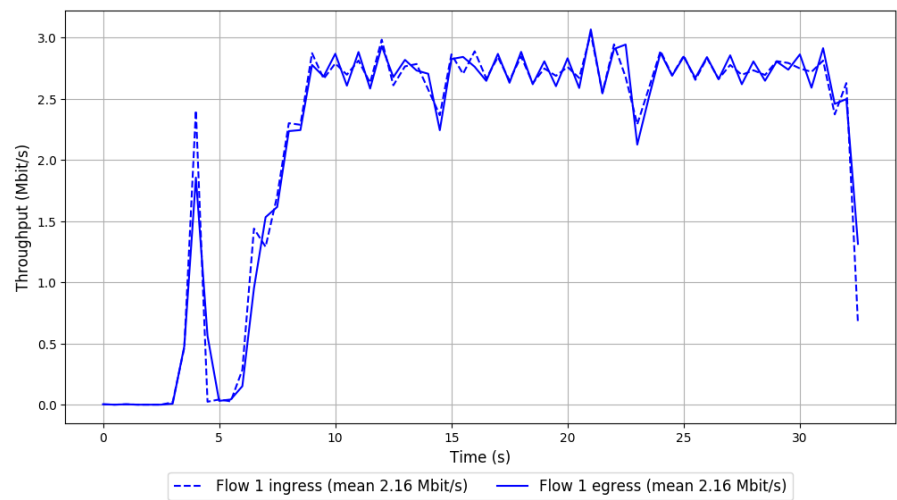
-- Flow 1:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 112.312 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2017-12-11 10:17:51

End at: 2017-12-11 10:18:21

Below is generated by plot.py at 2017-12-11 11:57:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 112.326 ms

Loss rate: 0.00%

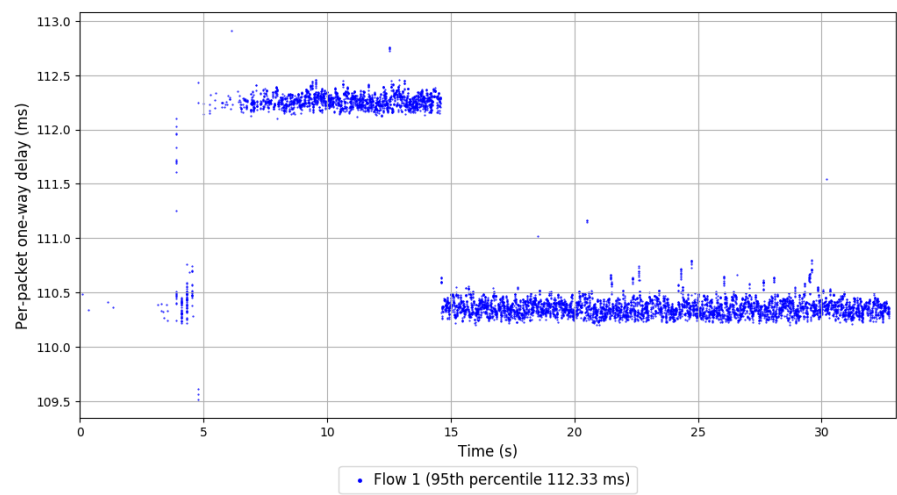
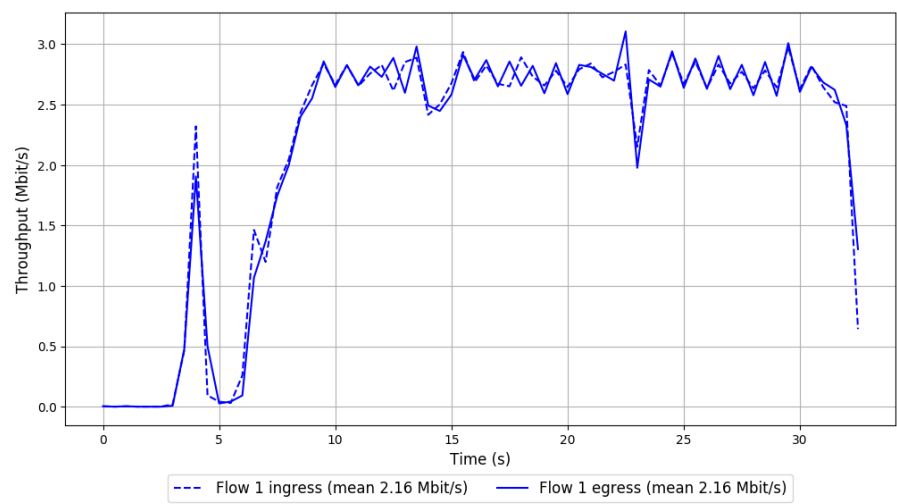
-- Flow 1:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 112.326 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2017-12-11 10:28:49

End at: 2017-12-11 10:29:19

Below is generated by plot.py at 2017-12-11 11:57:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 110.203 ms

Loss rate: 0.00%

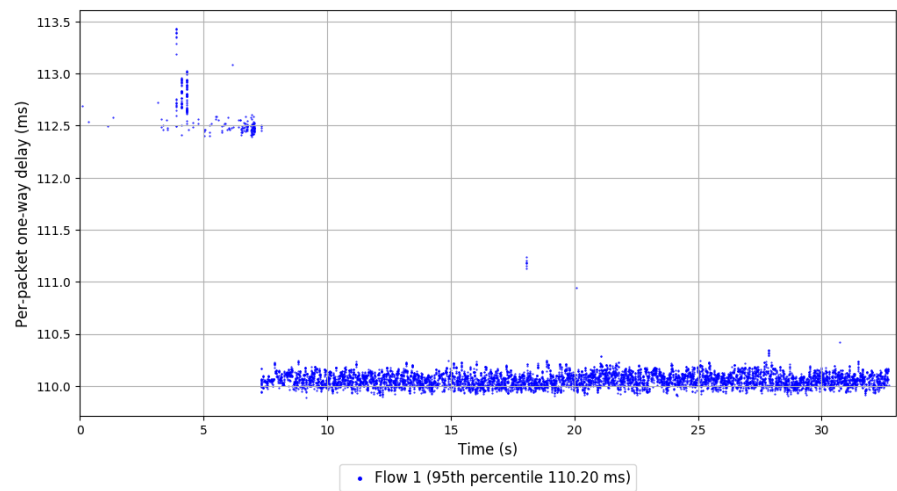
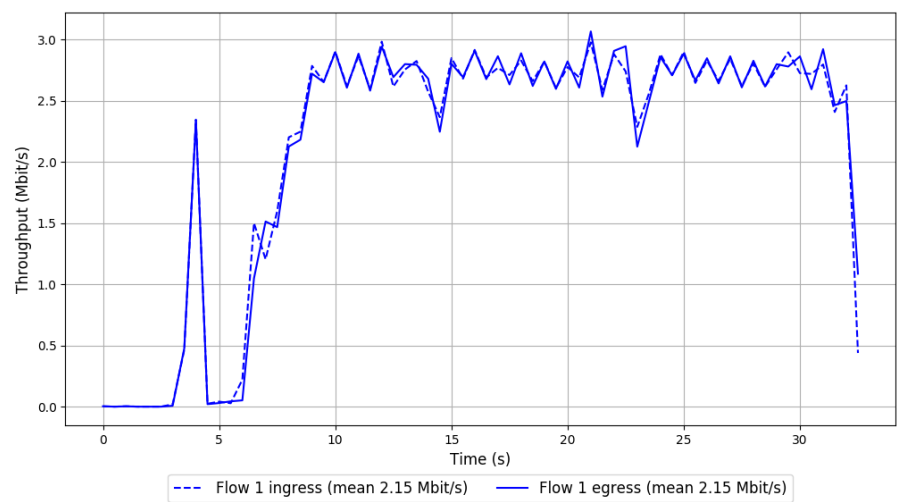
-- Flow 1:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 110.203 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2017-12-11 10:39:52

End at: 2017-12-11 10:40:22

Below is generated by plot.py at 2017-12-11 11:57:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 110.648 ms

Loss rate: 0.00%

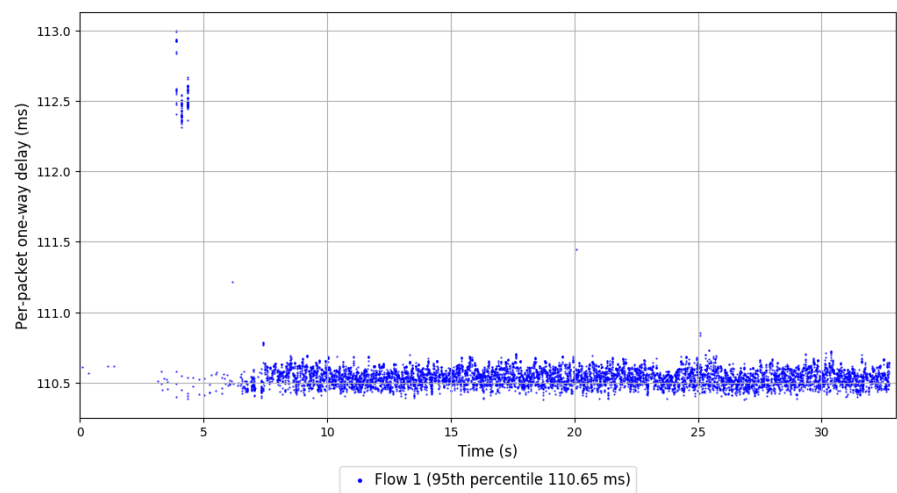
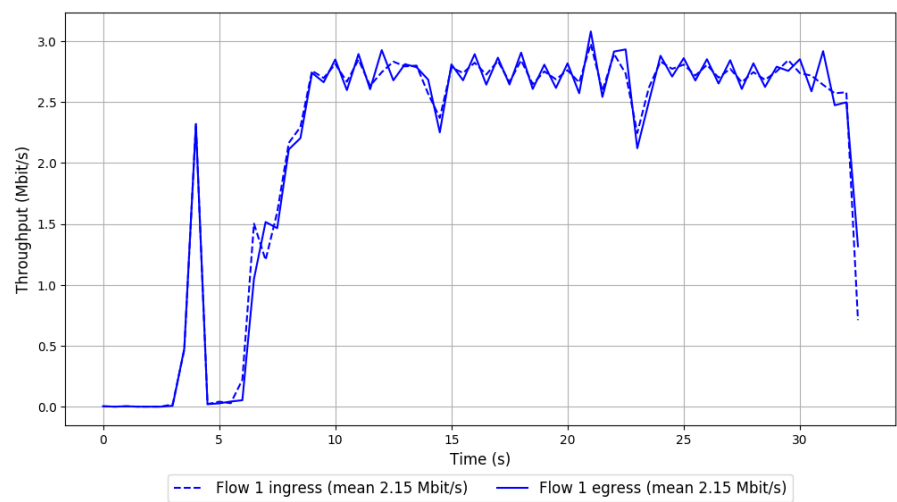
-- Flow 1:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 110.648 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2017-12-11 10:50:34

End at: 2017-12-11 10:51:04

Below is generated by plot.py at 2017-12-11 11:57:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 111.580 ms

Loss rate: 0.00%

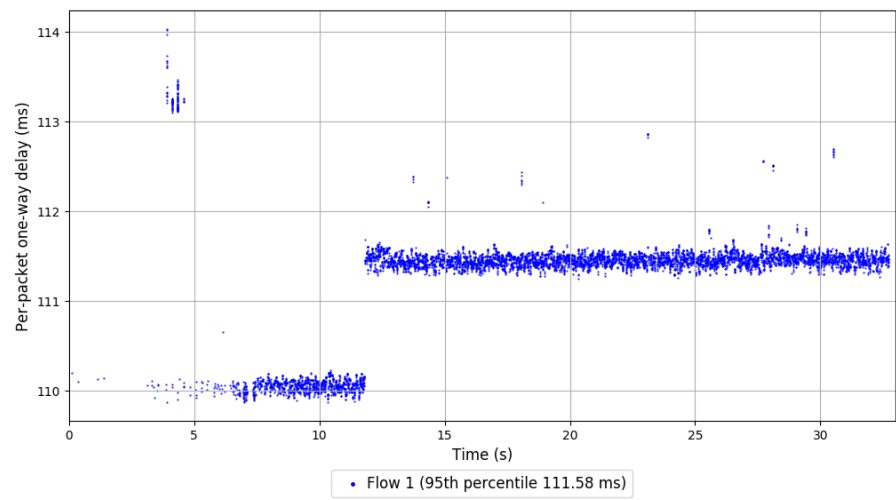
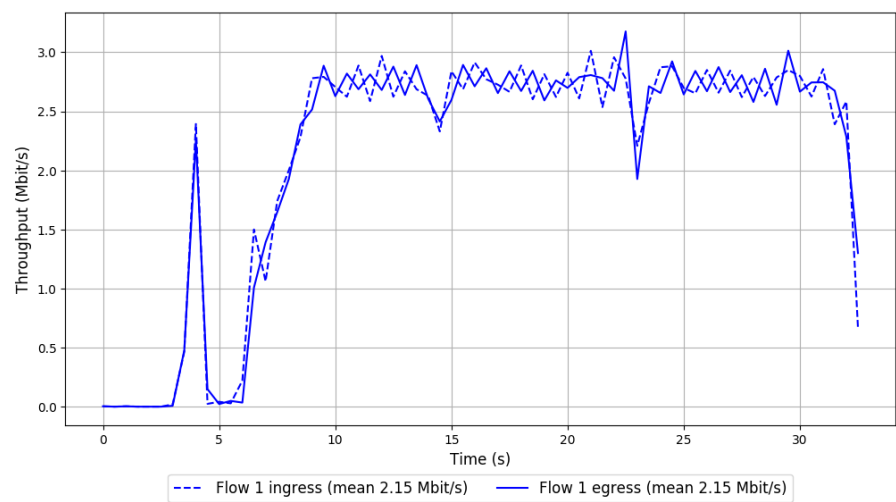
-- Flow 1:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 111.580 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2017-12-11 09:21:48

End at: 2017-12-11 09:22:18

Below is generated by plot.py at 2017-12-11 11:57:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.07 Mbit/s

95th percentile per-packet one-way delay: 112.117 ms

Loss rate: 1.15%

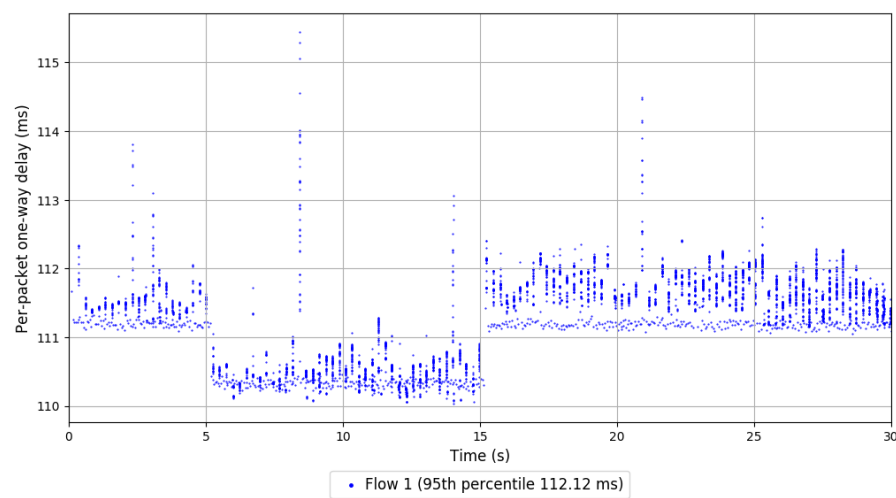
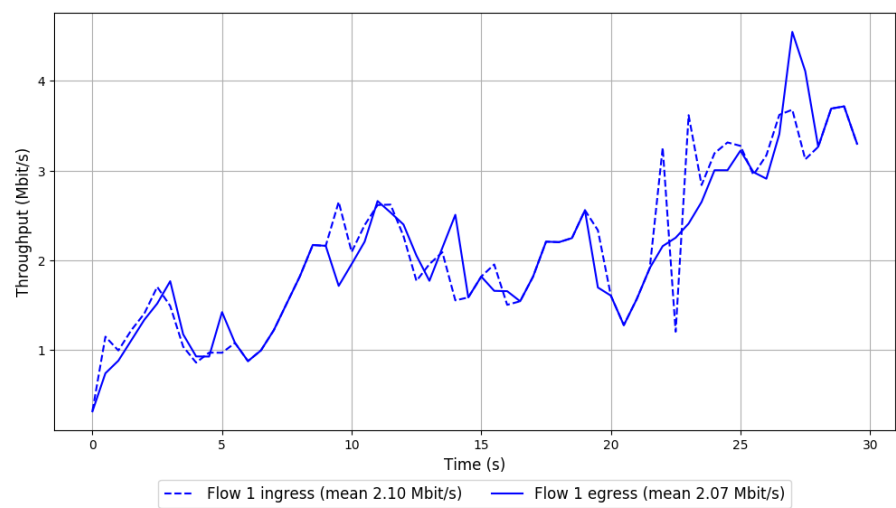
-- Flow 1:

Average throughput: 2.07 Mbit/s

95th percentile per-packet one-way delay: 112.117 ms

Loss rate: 1.15%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2017-12-11 09:33:00

End at: 2017-12-11 09:33:30

Below is generated by plot.py at 2017-12-11 11:57:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.81 Mbit/s

95th percentile per-packet one-way delay: 112.149 ms

Loss rate: 0.35%

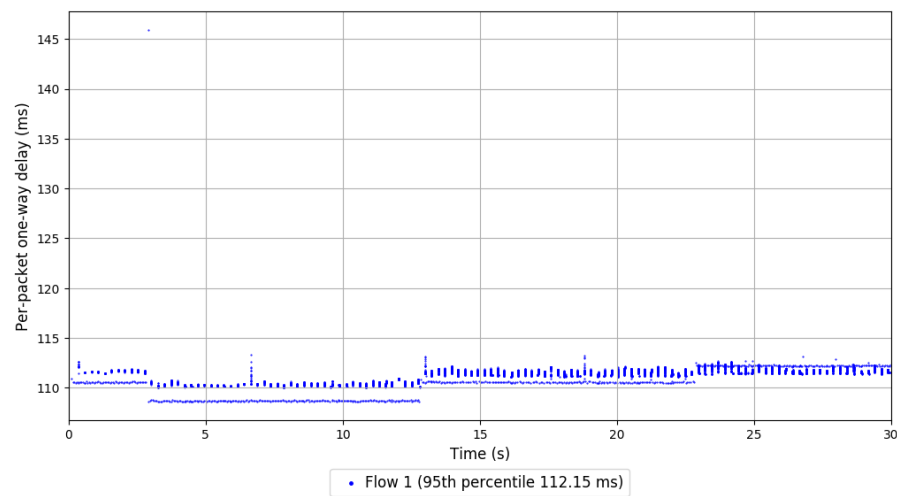
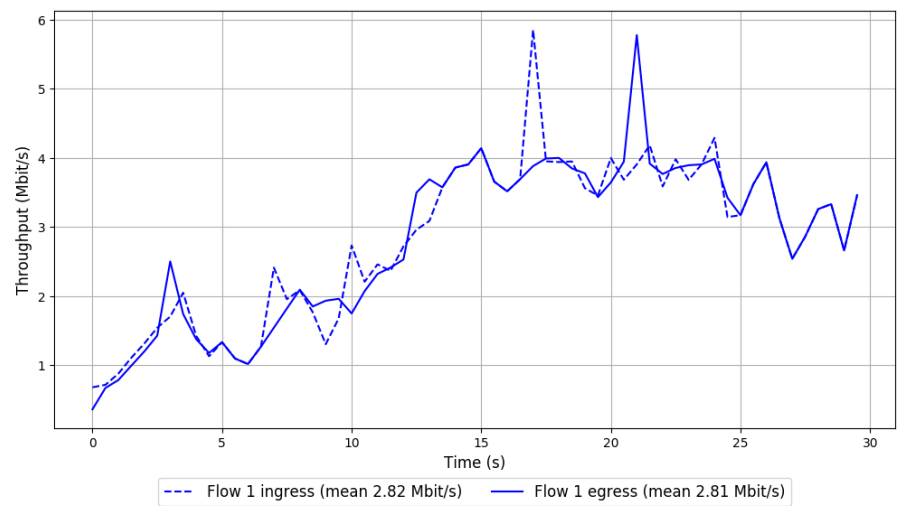
-- Flow 1:

Average throughput: 2.81 Mbit/s

95th percentile per-packet one-way delay: 112.149 ms

Loss rate: 0.35%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2017-12-11 09:44:09

End at: 2017-12-11 09:44:39

Below is generated by plot.py at 2017-12-11 11:57:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.71 Mbit/s

95th percentile per-packet one-way delay: 112.236 ms

Loss rate: 0.00%

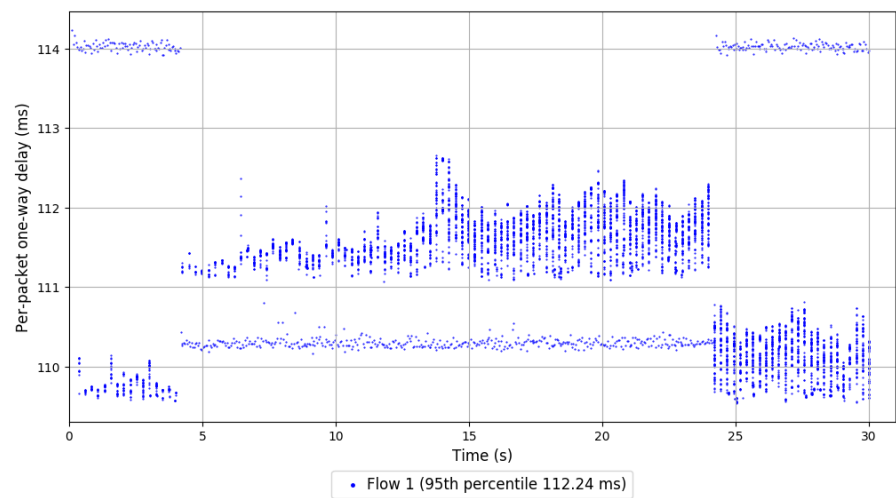
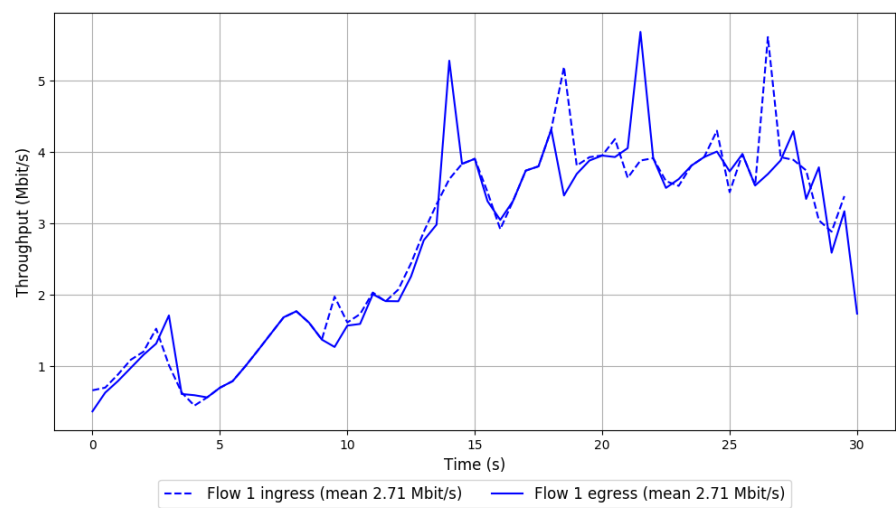
-- Flow 1:

Average throughput: 2.71 Mbit/s

95th percentile per-packet one-way delay: 112.236 ms

Loss rate: 0.00%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2017-12-11 09:54:57

End at: 2017-12-11 09:55:27

Below is generated by plot.py at 2017-12-11 11:57:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.78 Mbit/s

95th percentile per-packet one-way delay: 111.763 ms

Loss rate: 0.06%

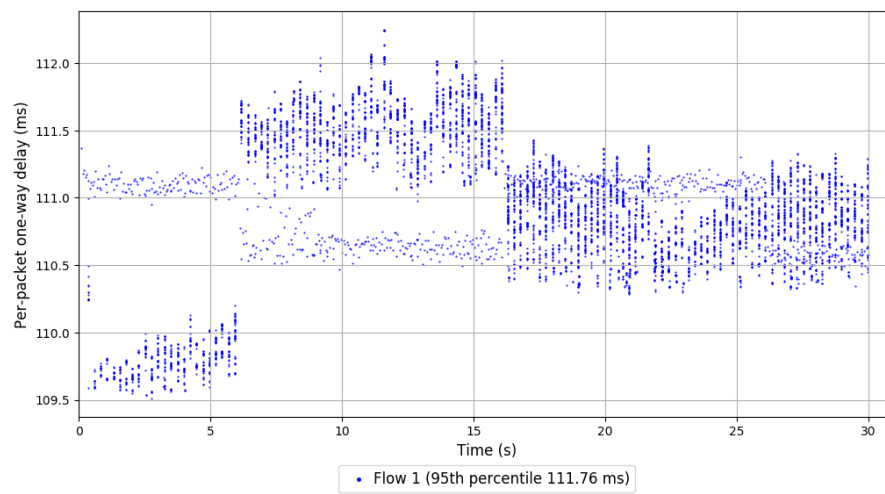
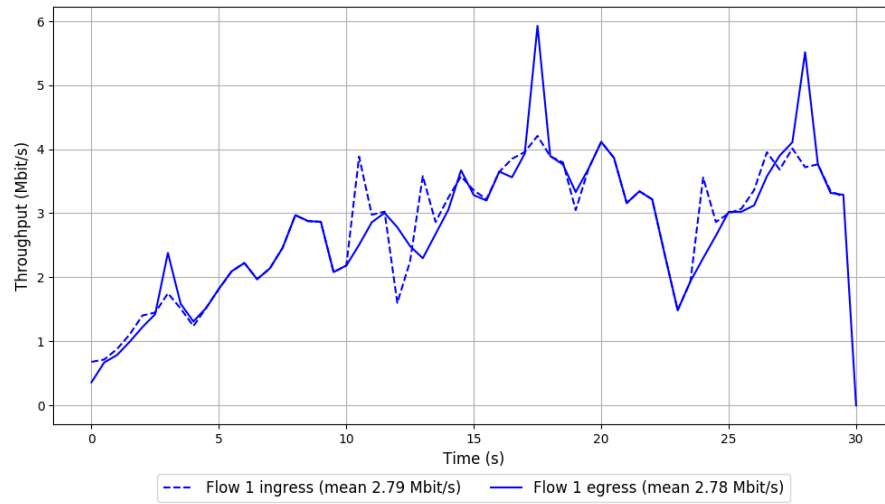
-- Flow 1:

Average throughput: 2.78 Mbit/s

95th percentile per-packet one-way delay: 111.763 ms

Loss rate: 0.06%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2017-12-11 10:06:00

End at: 2017-12-11 10:06:30

Below is generated by plot.py at 2017-12-11 11:57:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.04 Mbit/s

95th percentile per-packet one-way delay: 111.144 ms

Loss rate: 0.01%

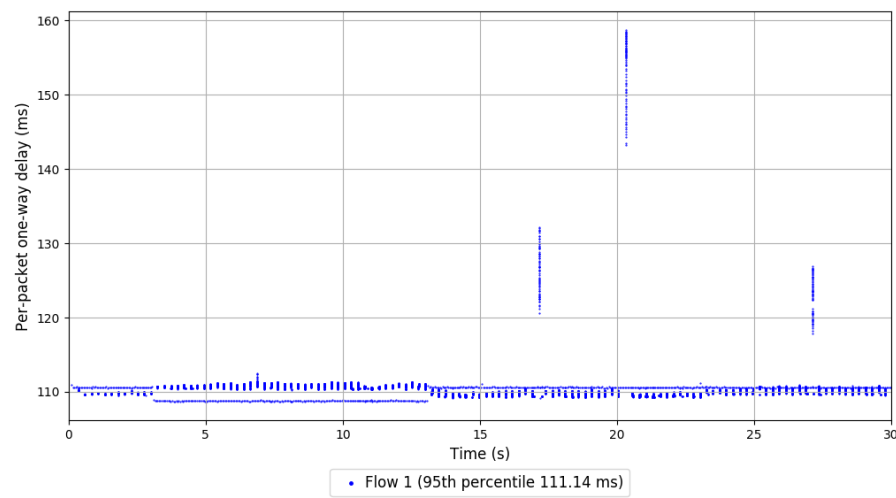
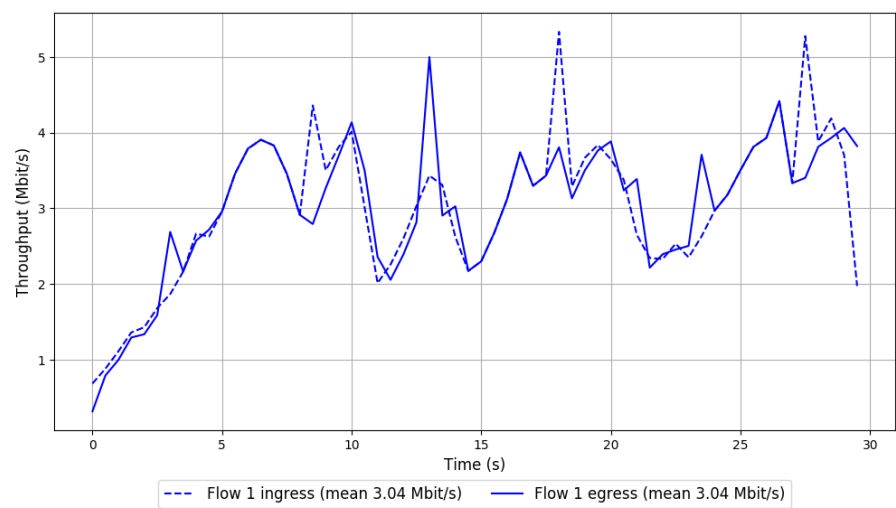
-- Flow 1:

Average throughput: 3.04 Mbit/s

95th percentile per-packet one-way delay: 111.144 ms

Loss rate: 0.01%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2017-12-11 10:17:10

End at: 2017-12-11 10:17:40

Below is generated by plot.py at 2017-12-11 11:57:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.00 Mbit/s

95th percentile per-packet one-way delay: 113.429 ms

Loss rate: 0.05%

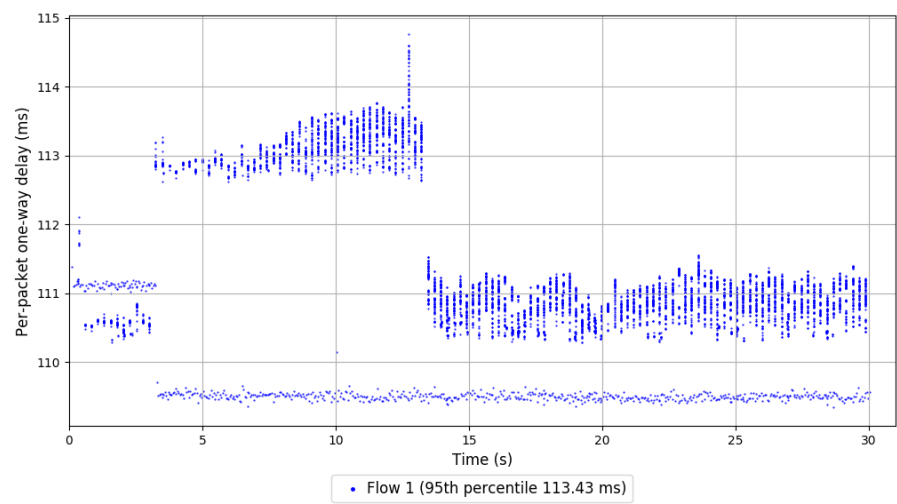
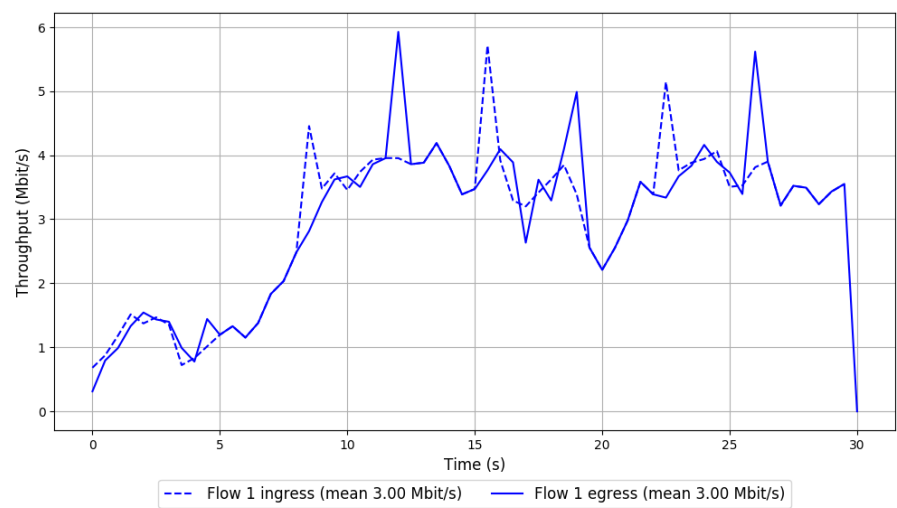
-- Flow 1:

Average throughput: 3.00 Mbit/s

95th percentile per-packet one-way delay: 113.429 ms

Loss rate: 0.05%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2017-12-11 10:28:07

End at: 2017-12-11 10:28:37

Below is generated by plot.py at 2017-12-11 11:57:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.75 Mbit/s

95th percentile per-packet one-way delay: 113.499 ms

Loss rate: 0.01%

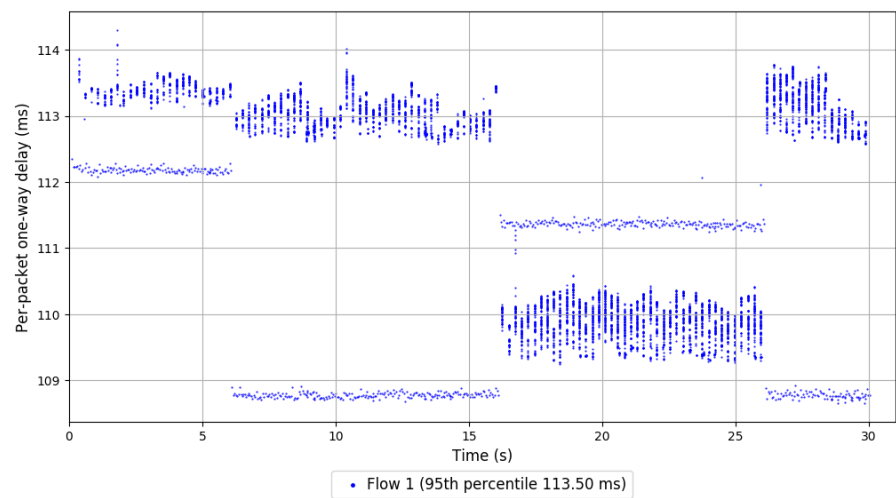
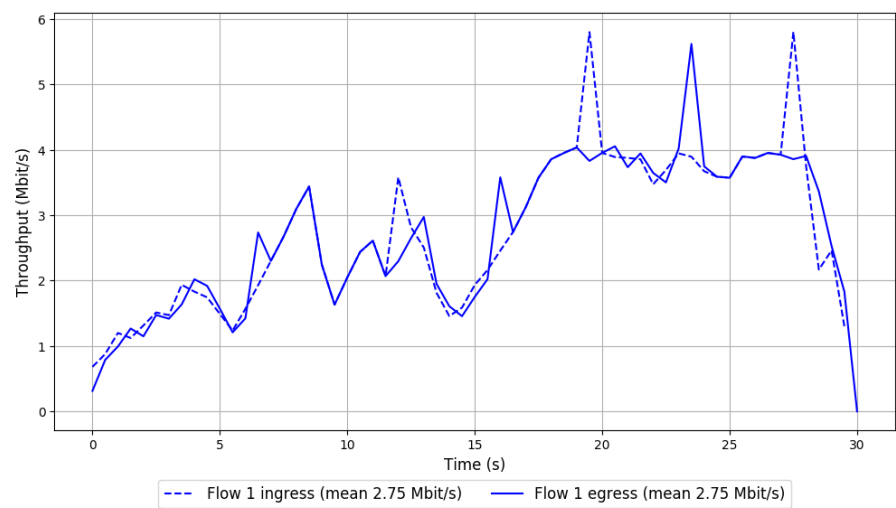
-- Flow 1:

Average throughput: 2.75 Mbit/s

95th percentile per-packet one-way delay: 113.499 ms

Loss rate: 0.01%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2017-12-11 10:39:11

End at: 2017-12-11 10:39:41

Below is generated by plot.py at 2017-12-11 11:57:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 114.297 ms

Loss rate: 0.09%

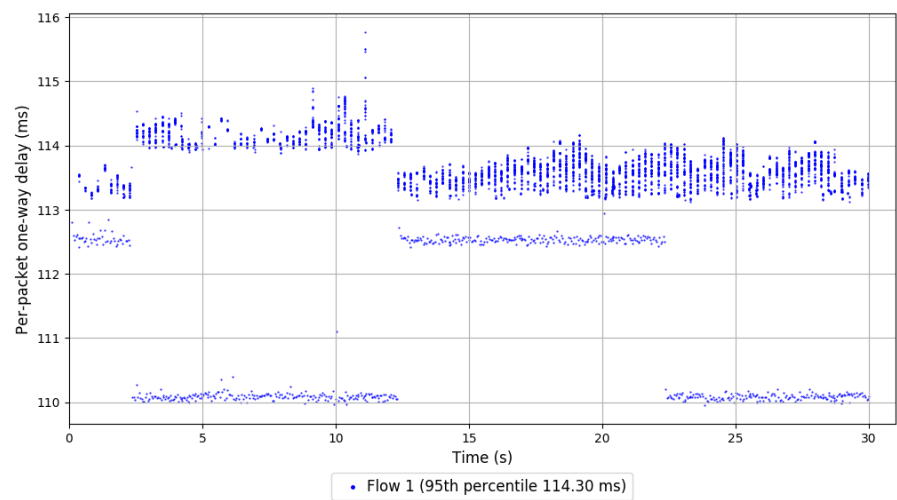
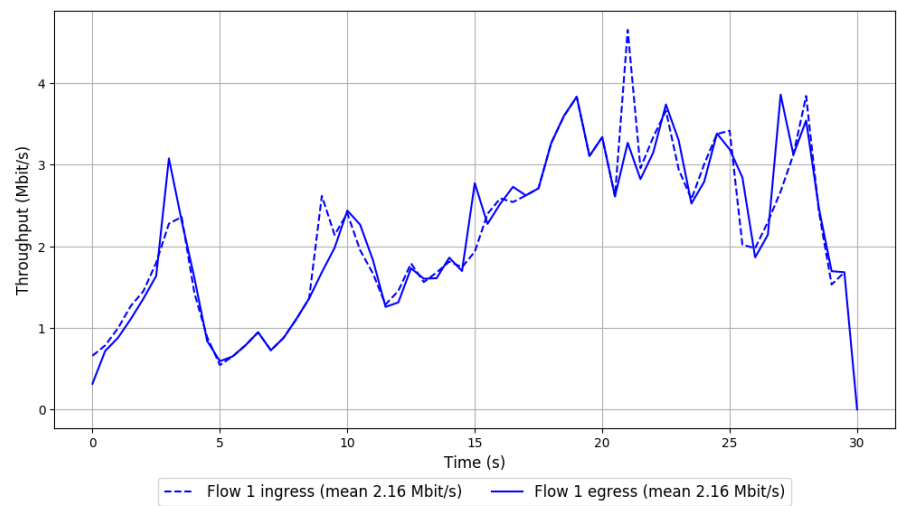
-- Flow 1:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 114.297 ms

Loss rate: 0.09%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2017-12-11 10:49:53

End at: 2017-12-11 10:50:23

Below is generated by plot.py at 2017-12-11 11:57:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.80 Mbit/s

95th percentile per-packet one-way delay: 114.318 ms

Loss rate: 0.00%

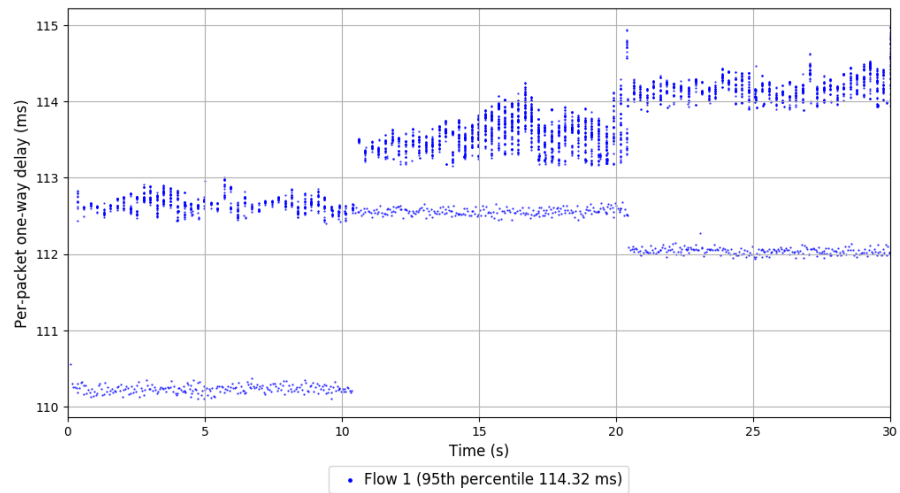
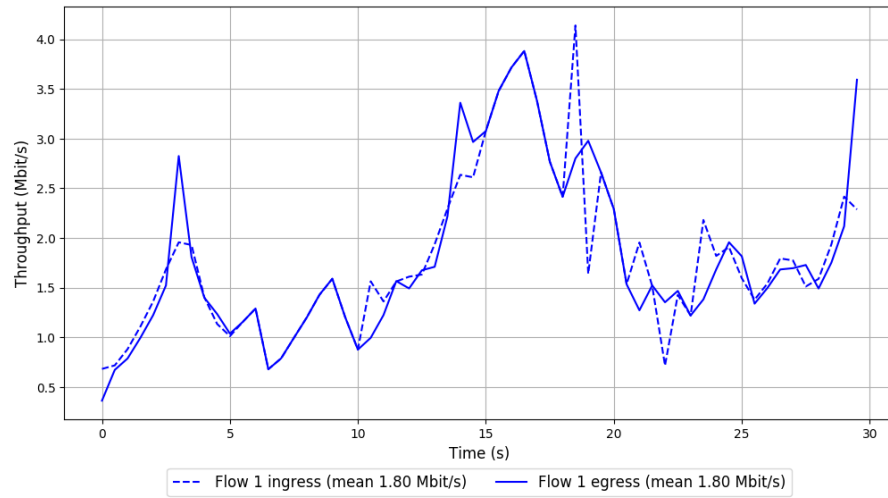
-- Flow 1:

Average throughput: 1.80 Mbit/s

95th percentile per-packet one-way delay: 114.318 ms

Loss rate: 0.00%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2017-12-11 11:00:43

End at: 2017-12-11 11:01:13

Below is generated by plot.py at 2017-12-11 11:57:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.10 Mbit/s

95th percentile per-packet one-way delay: 114.300 ms

Loss rate: 0.00%

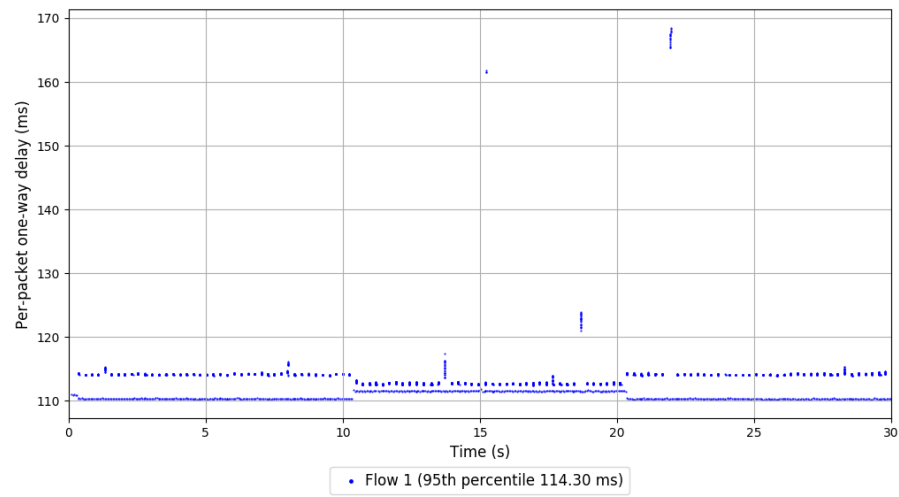
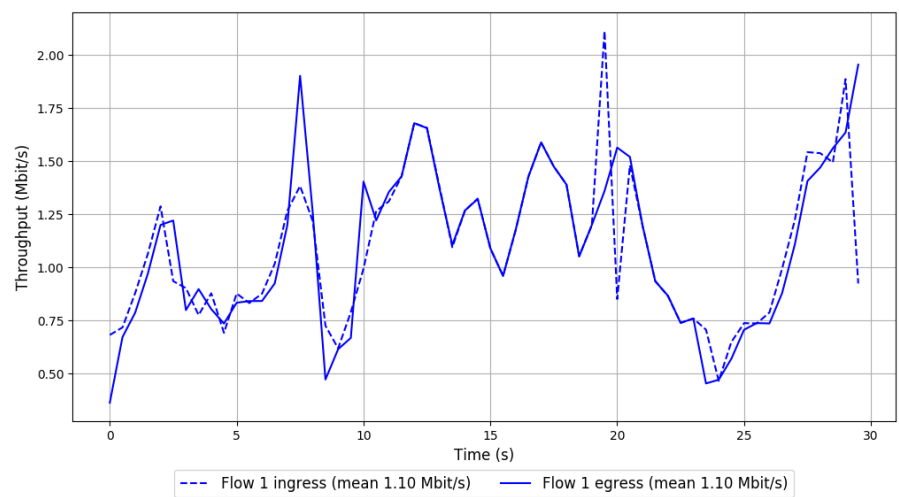
-- Flow 1:

Average throughput: 1.10 Mbit/s

95th percentile per-packet one-way delay: 114.300 ms

Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

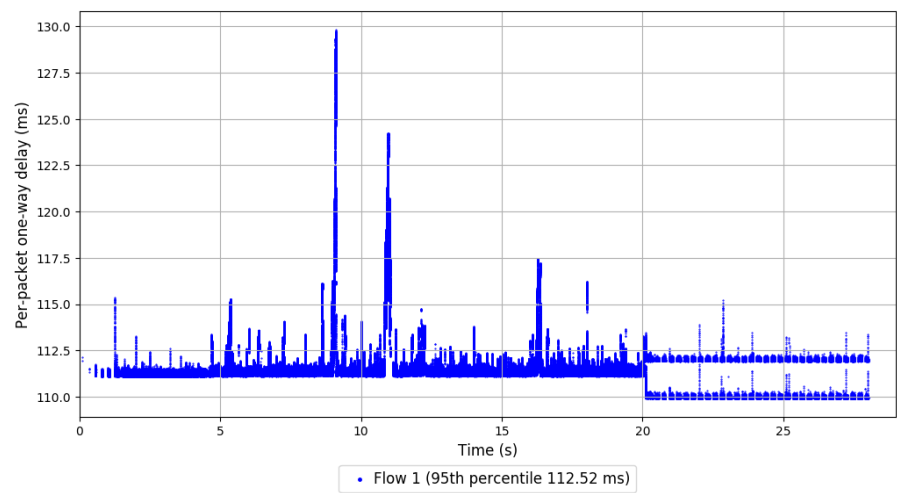
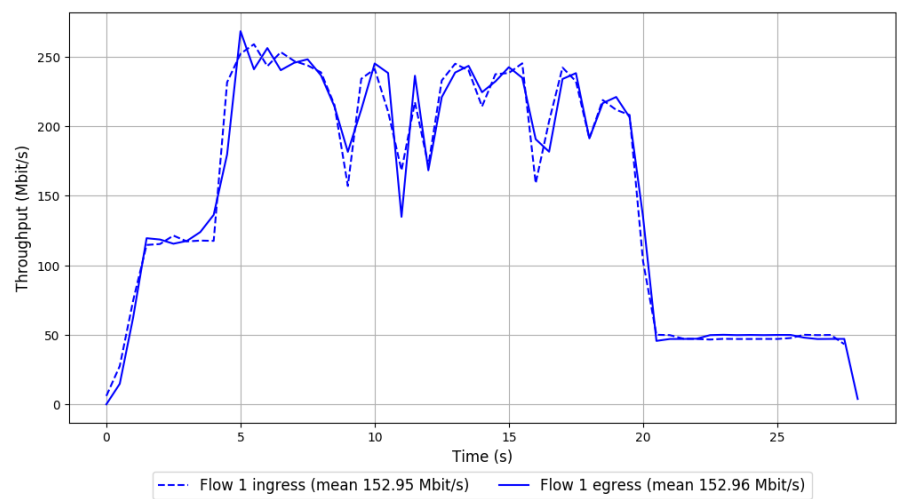


```
Run 1: Statistics of TaoVA-100x

Start at: 2017-12-11 09:13:01
End at: 2017-12-11 09:13:31

# Below is generated by plot.py at 2017-12-11 11:57:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 152.96 Mbit/s
95th percentile per-packet one-way delay: 112.515 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 152.96 Mbit/s
95th percentile per-packet one-way delay: 112.515 ms
Loss rate: 0.00%
```


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

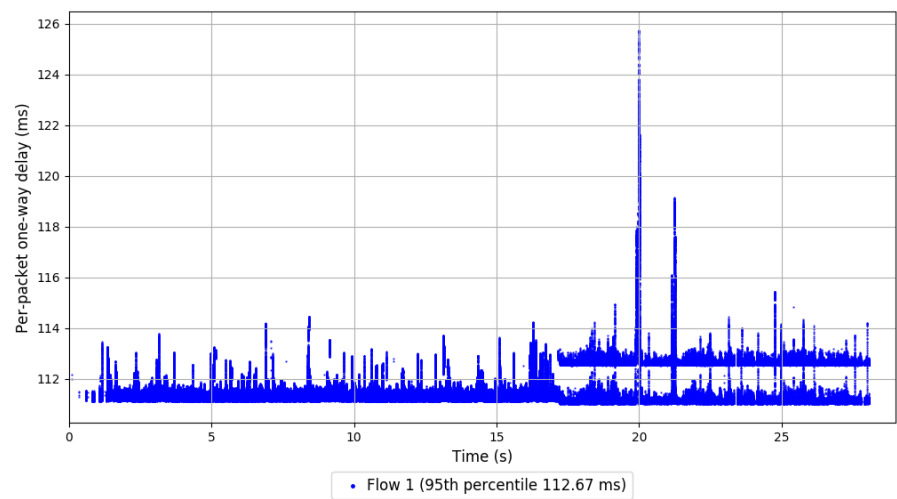
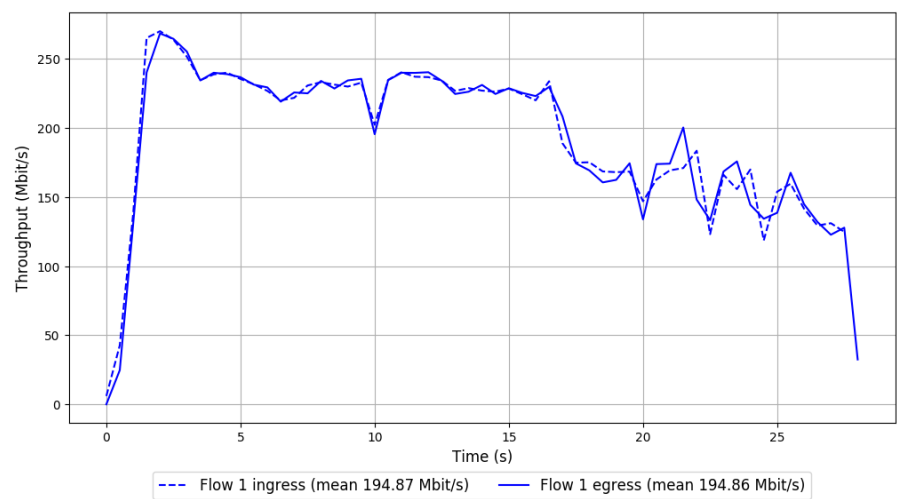


```
Run 2: Statistics of TaoVA-100x

Start at: 2017-12-11 09:24:04
End at: 2017-12-11 09:24:34

# Below is generated by plot.py at 2017-12-11 11:57:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 194.86 Mbit/s
95th percentile per-packet one-way delay: 112.670 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 194.86 Mbit/s
95th percentile per-packet one-way delay: 112.670 ms
Loss rate: 0.00%
```

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



Run 3: Statistics of TaoVA-100x

Start at: 2017-12-11 09:35:20

End at: 2017-12-11 09:35:50

Below is generated by plot.py at 2017-12-11 11:57:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 109.64 Mbit/s

95th percentile per-packet one-way delay: 112.466 ms

Loss rate: 0.01%

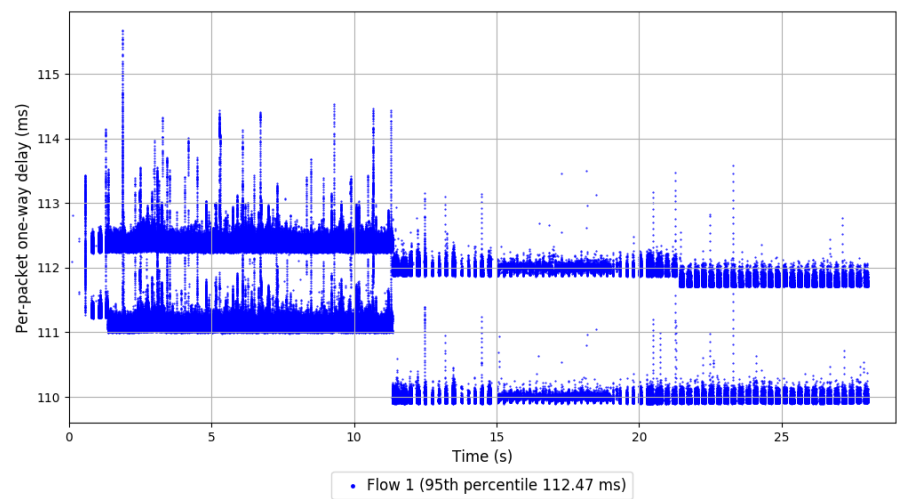
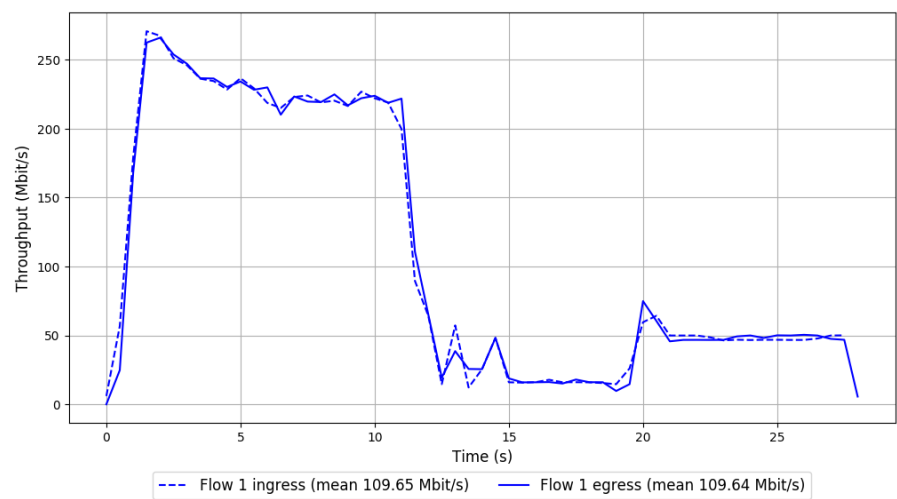
-- Flow 1:

Average throughput: 109.64 Mbit/s

95th percentile per-packet one-way delay: 112.466 ms

Loss rate: 0.01%

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



Run 4: Statistics of TaoVA-100x

Start at: 2017-12-11 09:46:30

End at: 2017-12-11 09:47:00

Below is generated by plot.py at 2017-12-11 11:57:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 15.45 Mbit/s

95th percentile per-packet one-way delay: 112.150 ms

Loss rate: 0.00%

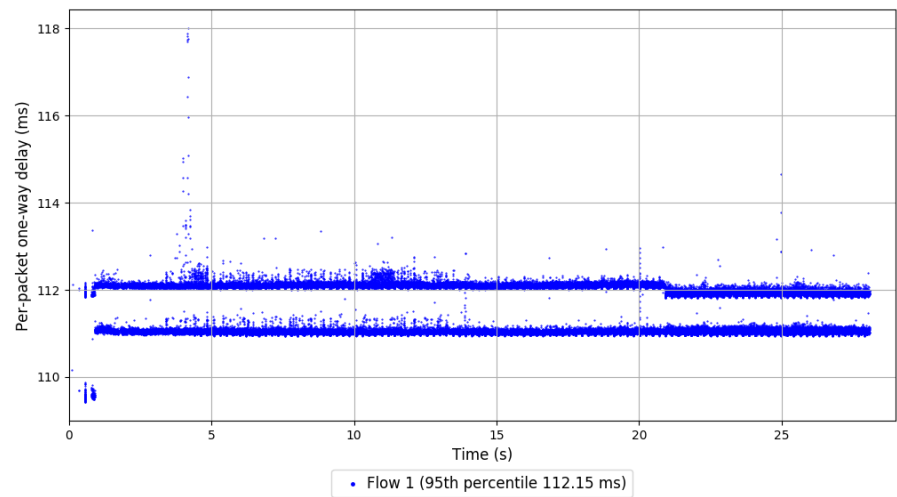
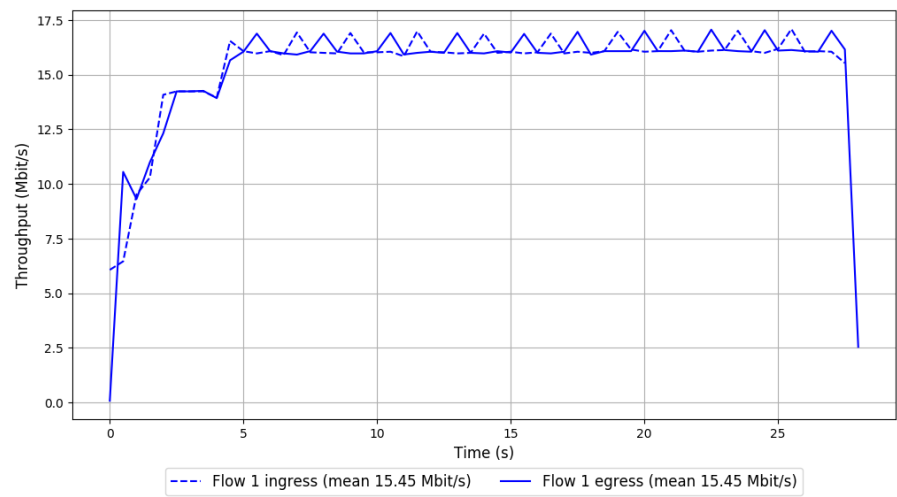
-- Flow 1:

Average throughput: 15.45 Mbit/s

95th percentile per-packet one-way delay: 112.150 ms

Loss rate: 0.00%

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



Run 5: Statistics of TaoVA-100x

Start at: 2017-12-11 09:57:12

End at: 2017-12-11 09:57:42

Below is generated by plot.py at 2017-12-11 11:57:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 135.73 Mbit/s

95th percentile per-packet one-way delay: 113.257 ms

Loss rate: 0.01%

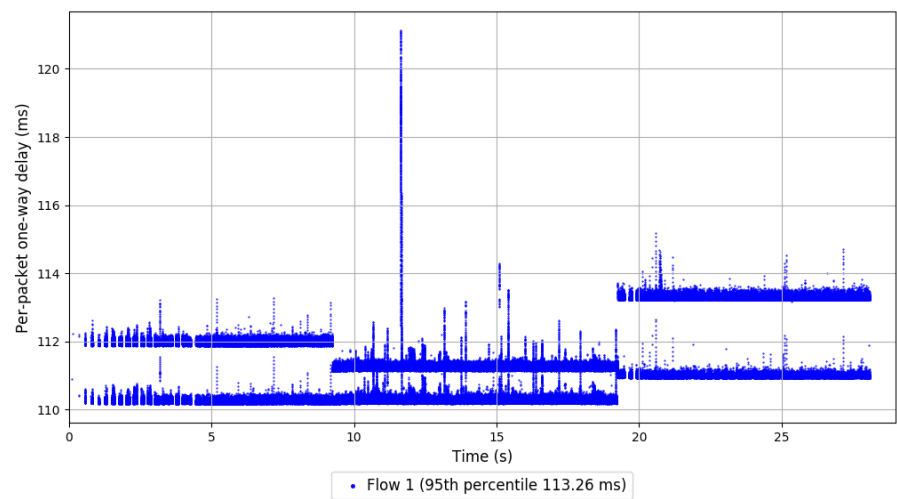
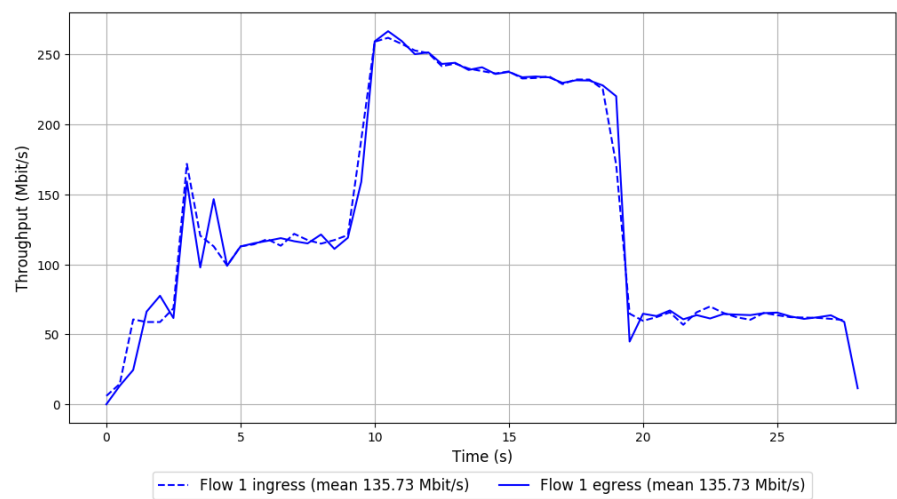
-- Flow 1:

Average throughput: 135.73 Mbit/s

95th percentile per-packet one-way delay: 113.257 ms

Loss rate: 0.01%

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



Run 6: Statistics of TaoVA-100x

Start at: 2017-12-11 10:08:17

End at: 2017-12-11 10:08:47

Below is generated by plot.py at 2017-12-11 11:57:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 129.63 Mbit/s

95th percentile per-packet one-way delay: 112.070 ms

Loss rate: 0.00%

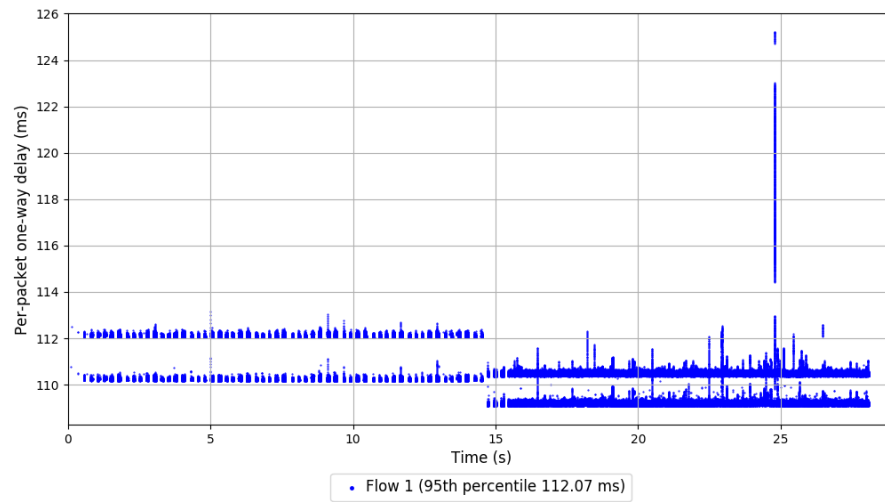
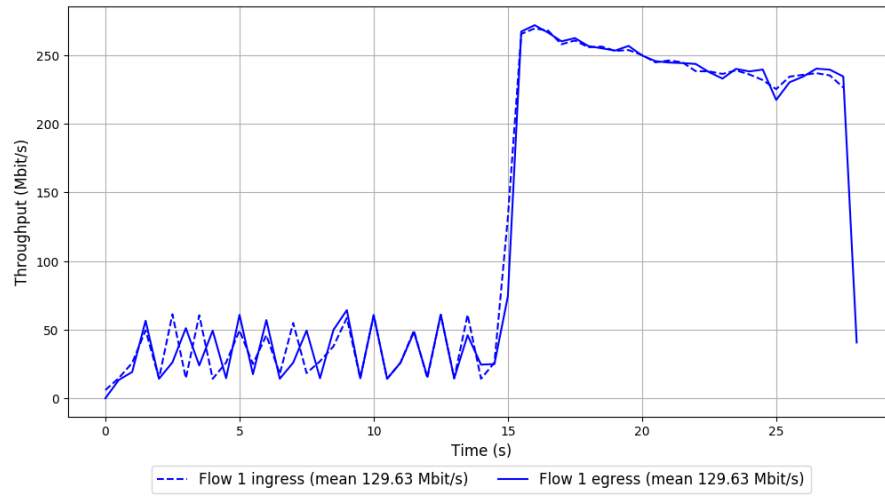
-- Flow 1:

Average throughput: 129.63 Mbit/s

95th percentile per-packet one-way delay: 112.070 ms

Loss rate: 0.00%

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

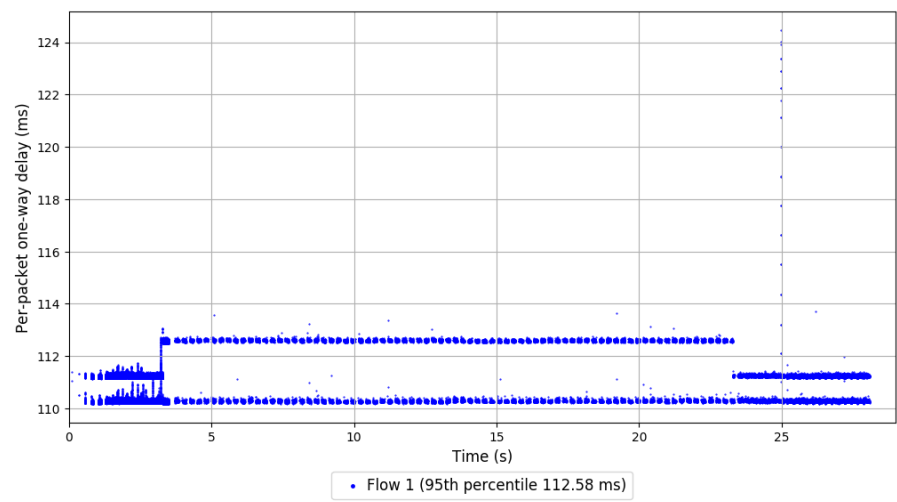
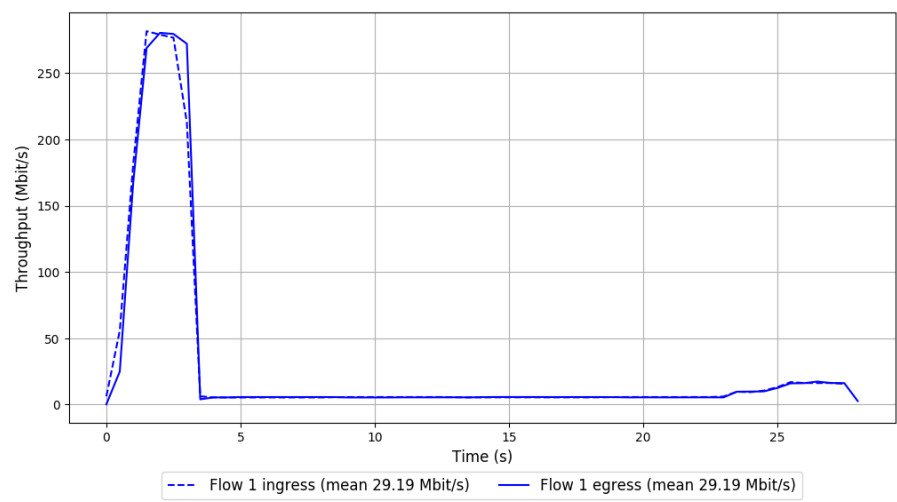


```
Run 7: Statistics of TaoVA-100x

Start at: 2017-12-11 10:19:28
End at: 2017-12-11 10:19:58

# Below is generated by plot.py at 2017-12-11 11:57:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 29.19 Mbit/s
95th percentile per-packet one-way delay: 112.581 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 29.19 Mbit/s
95th percentile per-packet one-way delay: 112.581 ms
Loss rate: 0.00%
```

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



Run 8: Statistics of TaoVA-100x

Start at: 2017-12-11 10:30:18

End at: 2017-12-11 10:30:48

Below is generated by plot.py at 2017-12-11 11:57:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 180.15 Mbit/s

95th percentile per-packet one-way delay: 113.135 ms

Loss rate: 0.00%

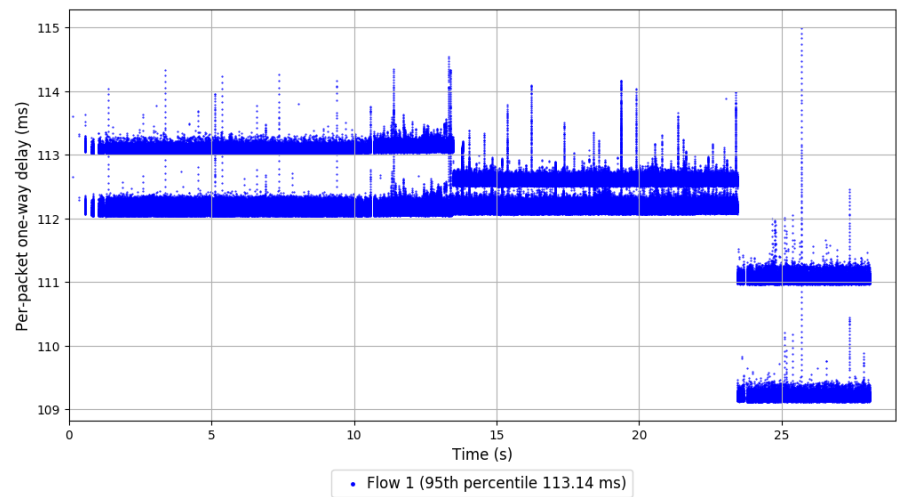
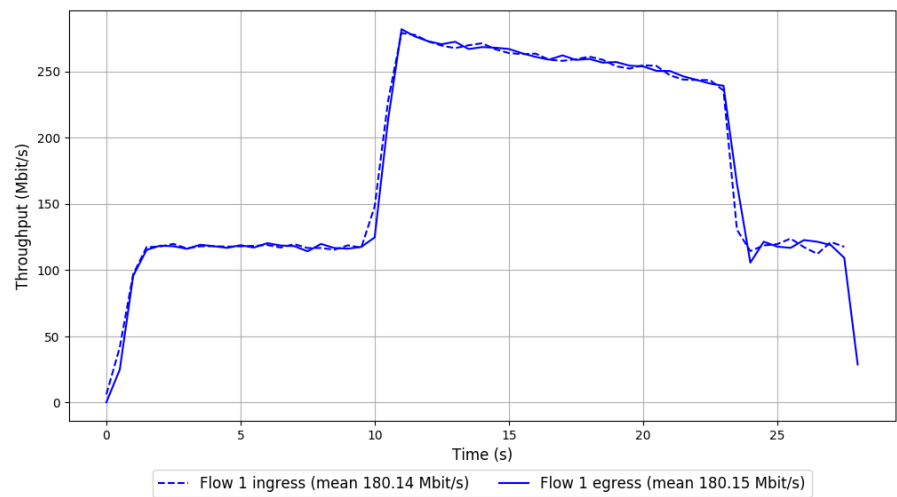
-- Flow 1:

Average throughput: 180.15 Mbit/s

95th percentile per-packet one-way delay: 113.135 ms

Loss rate: 0.00%

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

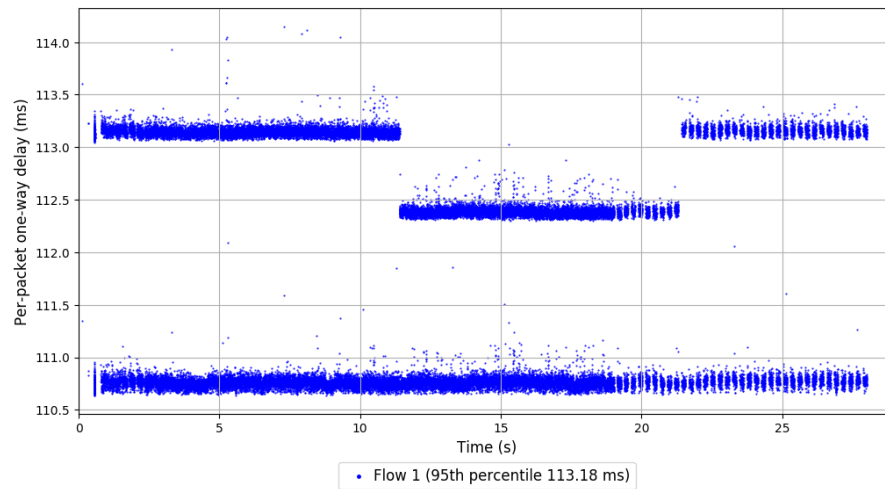
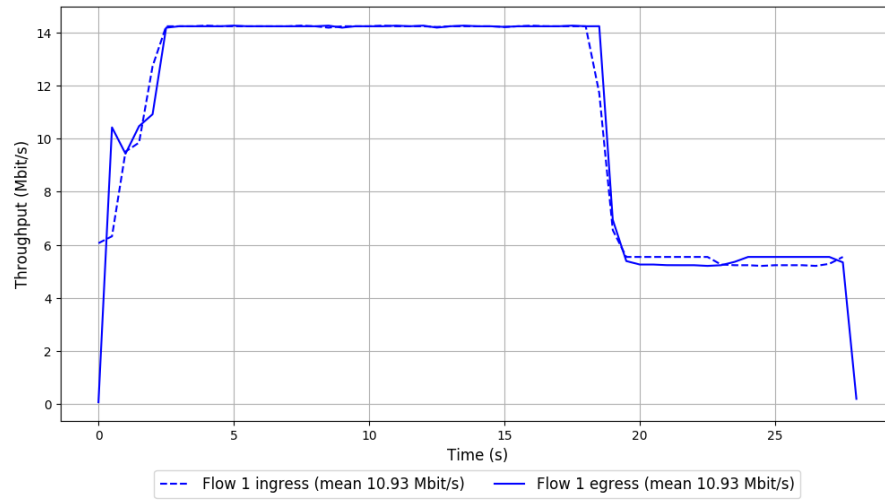


```
Run 9: Statistics of TaoVA-100x

Start at: 2017-12-11 10:41:20
End at: 2017-12-11 10:41:50

# Below is generated by plot.py at 2017-12-11 11:57:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 10.93 Mbit/s
95th percentile per-packet one-way delay: 113.181 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 10.93 Mbit/s
95th percentile per-packet one-way delay: 113.181 ms
Loss rate: 0.00%
```


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

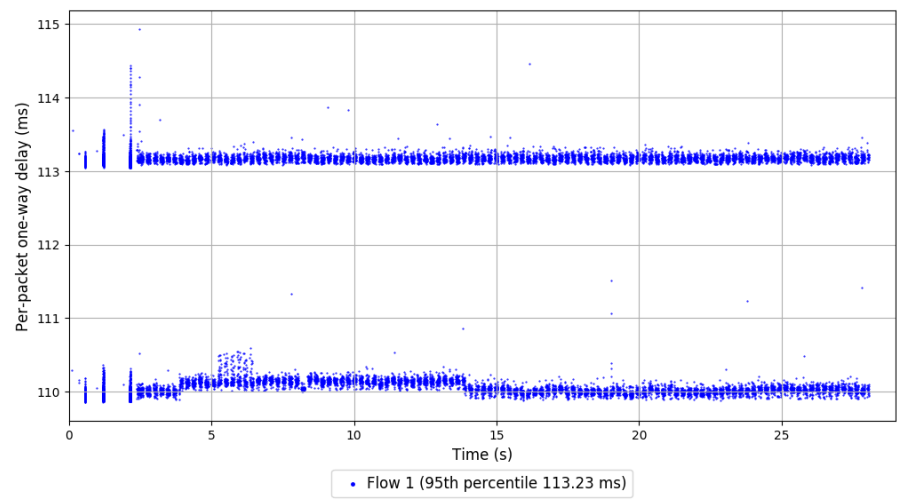
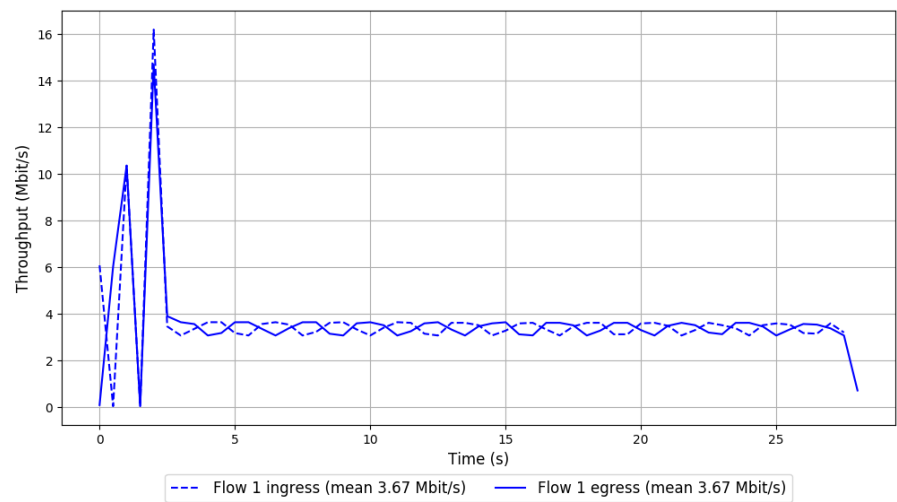


```
Run 10: Statistics of TaoVA-100x

Start at: 2017-12-11 10:52:07
End at: 2017-12-11 10:52:37

# Below is generated by plot.py at 2017-12-11 11:57:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 3.67 Mbit/s
95th percentile per-packet one-way delay: 113.230 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 3.67 Mbit/s
95th percentile per-packet one-way delay: 113.230 ms
Loss rate: 0.01%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2017-12-11 09:13:58

End at: 2017-12-11 09:14:28

Below is generated by plot.py at 2017-12-11 11:57:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.89 Mbit/s

95th percentile per-packet one-way delay: 111.459 ms

Loss rate: 0.11%

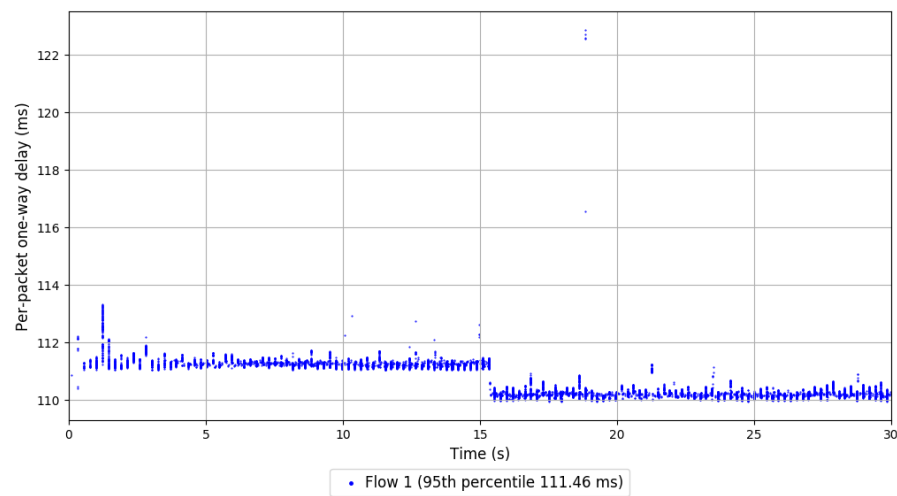
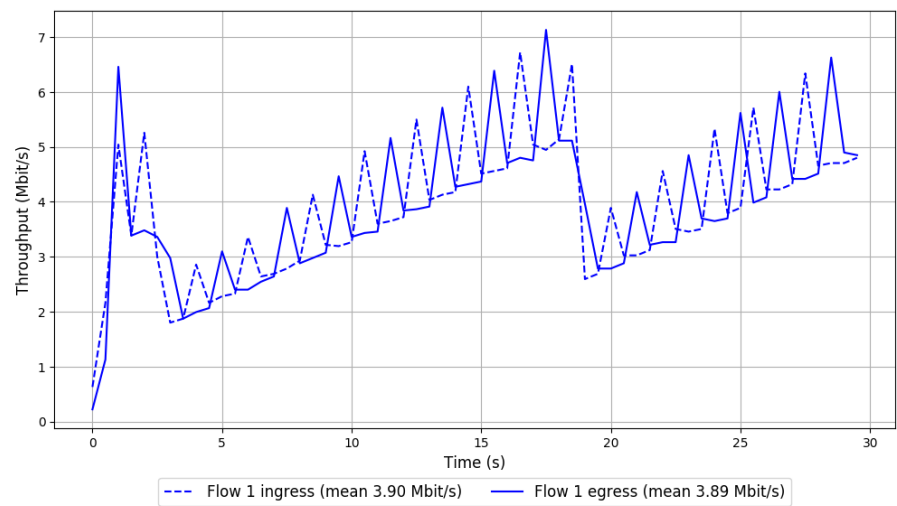
-- Flow 1:

Average throughput: 3.89 Mbit/s

95th percentile per-packet one-way delay: 111.459 ms

Loss rate: 0.11%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2017-12-11 09:25:05

End at: 2017-12-11 09:25:35

Below is generated by plot.py at 2017-12-11 11:57:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 32.74 Mbit/s

95th percentile per-packet one-way delay: 114.477 ms

Loss rate: 0.01%

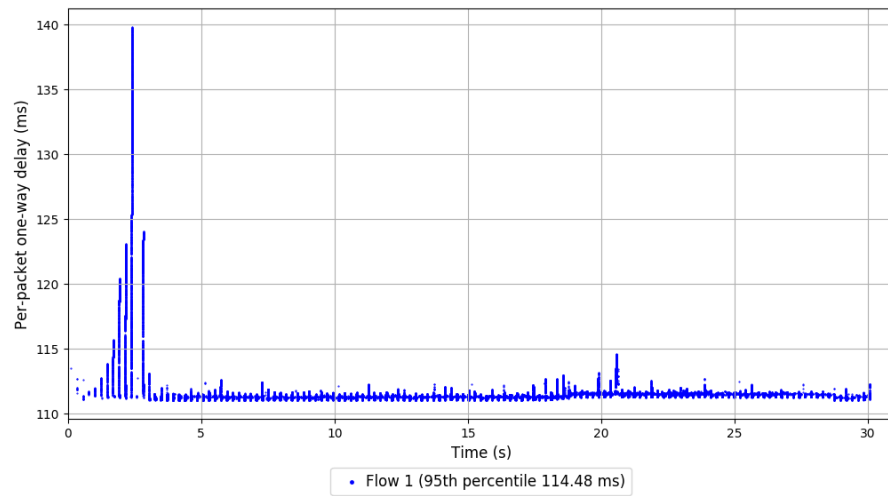
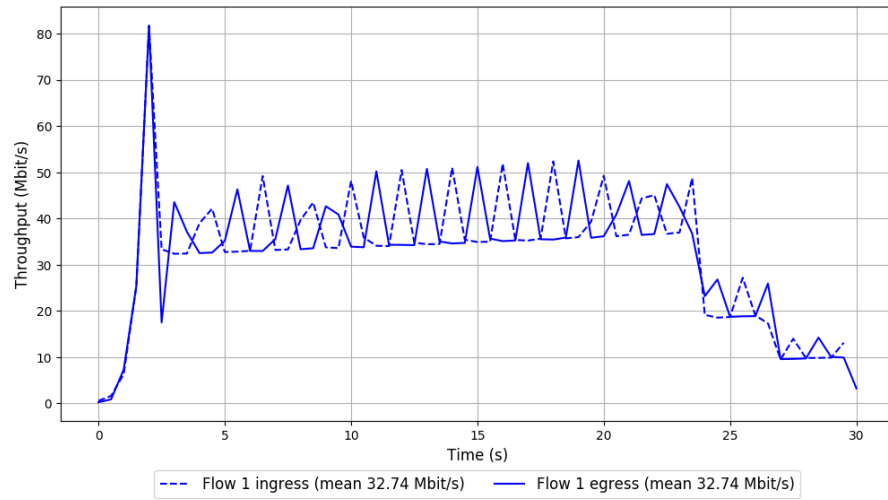
-- Flow 1:

Average throughput: 32.74 Mbit/s

95th percentile per-packet one-way delay: 114.477 ms

Loss rate: 0.01%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2017-12-11 09:36:12

End at: 2017-12-11 09:36:42

Below is generated by plot.py at 2017-12-11 11:57:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 22.43 Mbit/s

95th percentile per-packet one-way delay: 119.214 ms

Loss rate: 0.01%

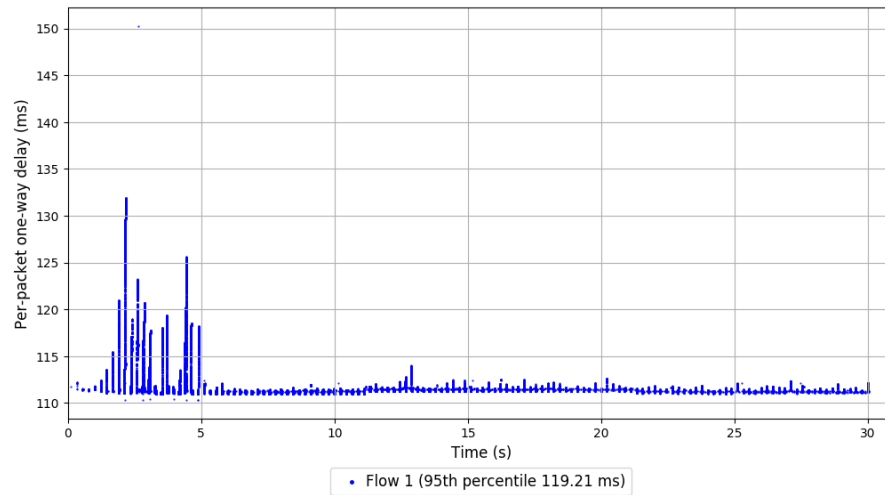
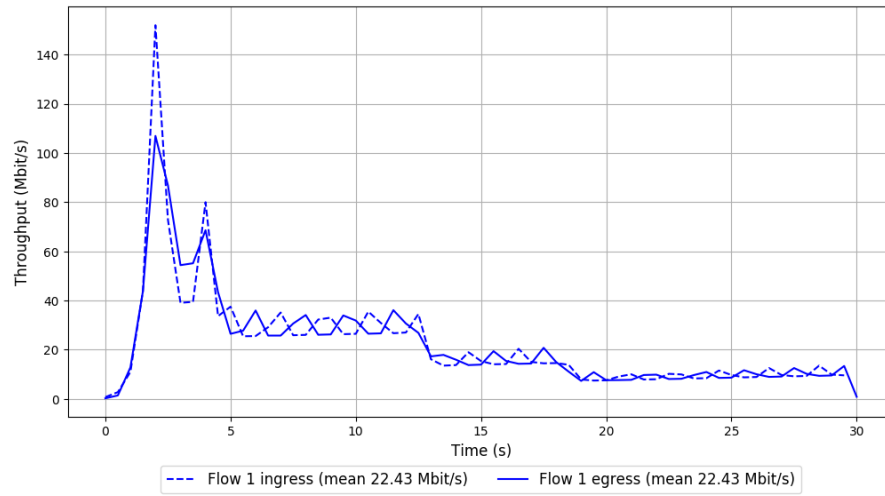
-- Flow 1:

Average throughput: 22.43 Mbit/s

95th percentile per-packet one-way delay: 119.214 ms

Loss rate: 0.01%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2017-12-11 09:47:13

End at: 2017-12-11 09:47:43

Below is generated by plot.py at 2017-12-11 11:57:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 54.17 Mbit/s

95th percentile per-packet one-way delay: 118.328 ms

Loss rate: 0.00%

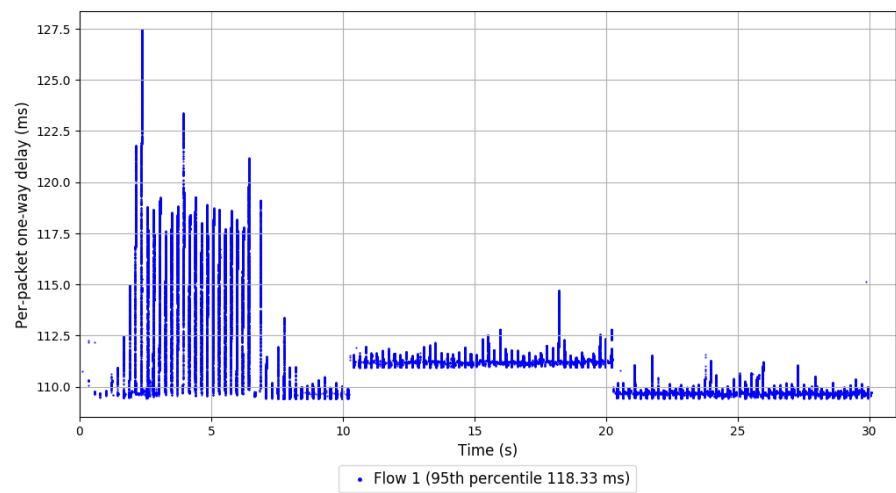
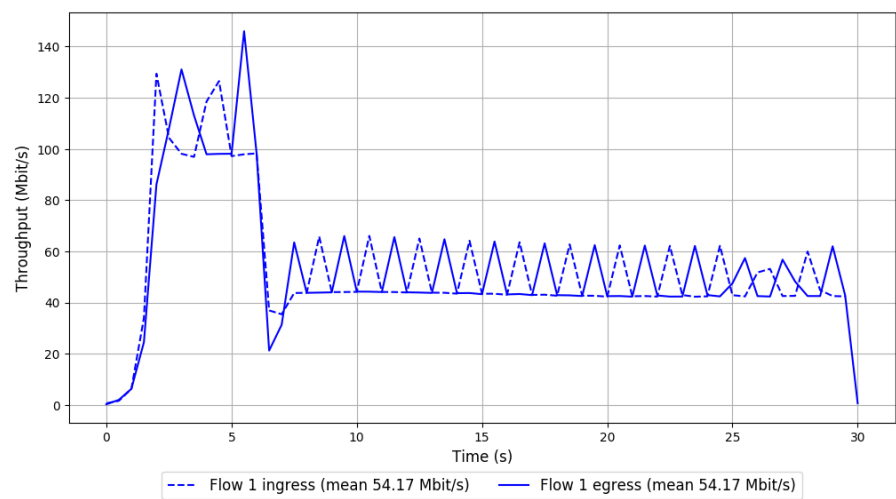
-- Flow 1:

Average throughput: 54.17 Mbit/s

95th percentile per-packet one-way delay: 118.328 ms

Loss rate: 0.00%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2017-12-11 09:58:06

End at: 2017-12-11 09:58:36

Below is generated by plot.py at 2017-12-11 11:57:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 16.43 Mbit/s

95th percentile per-packet one-way delay: 119.742 ms

Loss rate: 0.04%

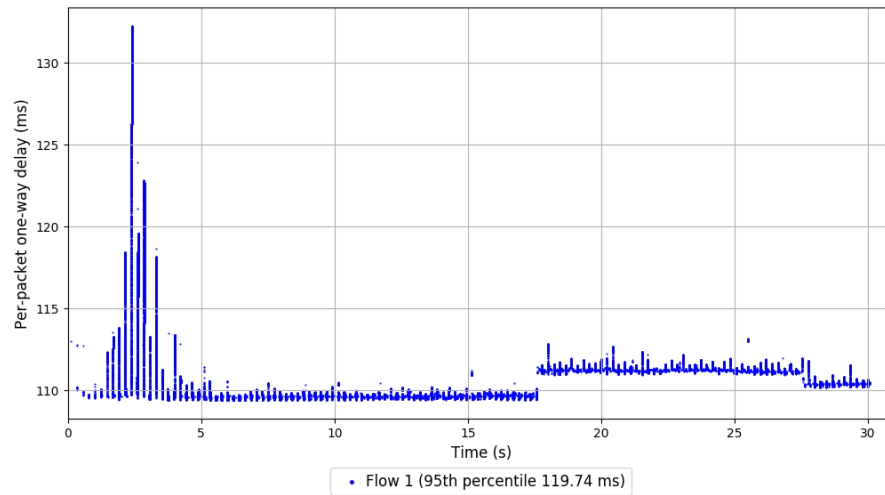
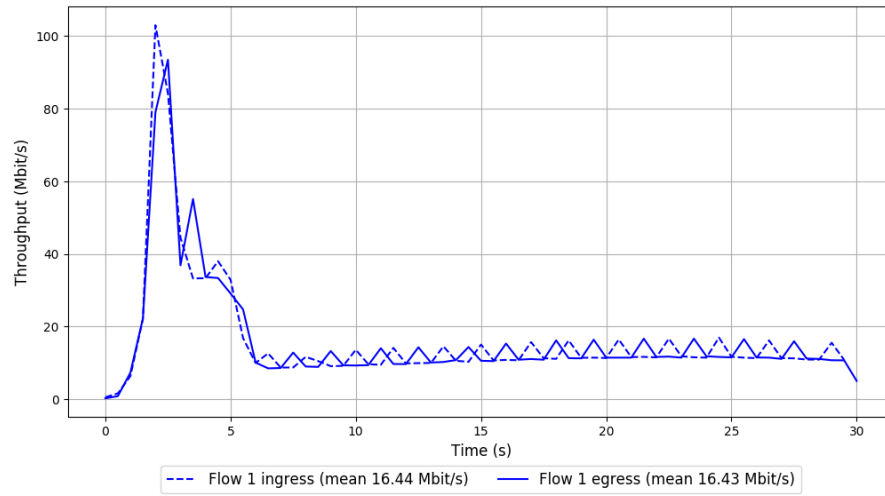
-- Flow 1:

Average throughput: 16.43 Mbit/s

95th percentile per-packet one-way delay: 119.742 ms

Loss rate: 0.04%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2017-12-11 10:09:10

End at: 2017-12-11 10:09:40

Below is generated by plot.py at 2017-12-11 11:57:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 70.69 Mbit/s

95th percentile per-packet one-way delay: 110.801 ms

Loss rate: 0.00%

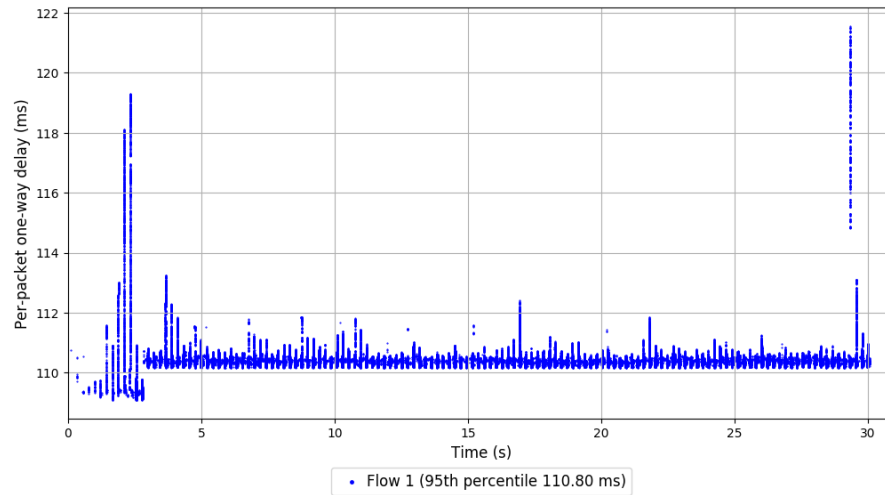
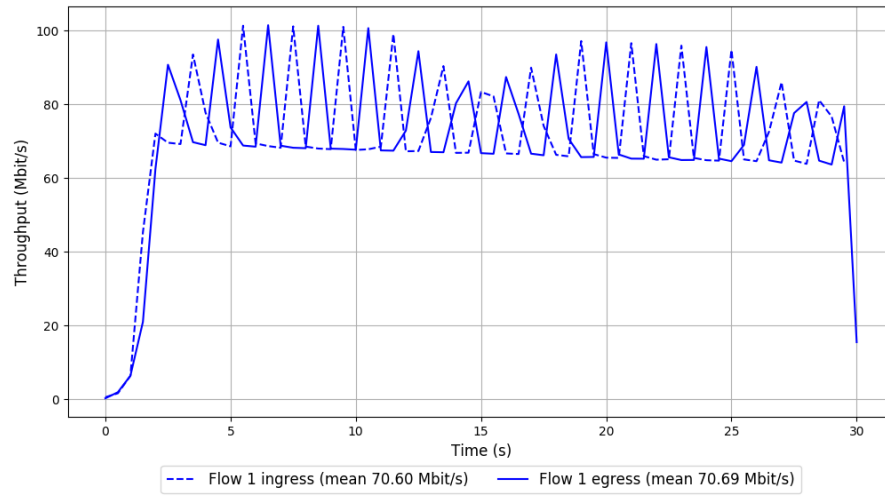
-- Flow 1:

Average throughput: 70.69 Mbit/s

95th percentile per-packet one-way delay: 110.801 ms

Loss rate: 0.00%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2017-12-11 10:20:12

End at: 2017-12-11 10:20:42

Below is generated by plot.py at 2017-12-11 11:57:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.84 Mbit/s

95th percentile per-packet one-way delay: 113.947 ms

Loss rate: 0.03%

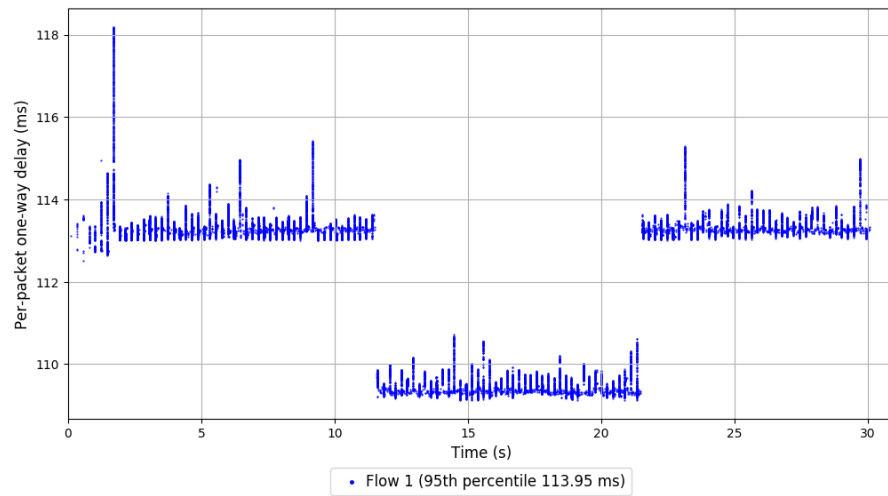
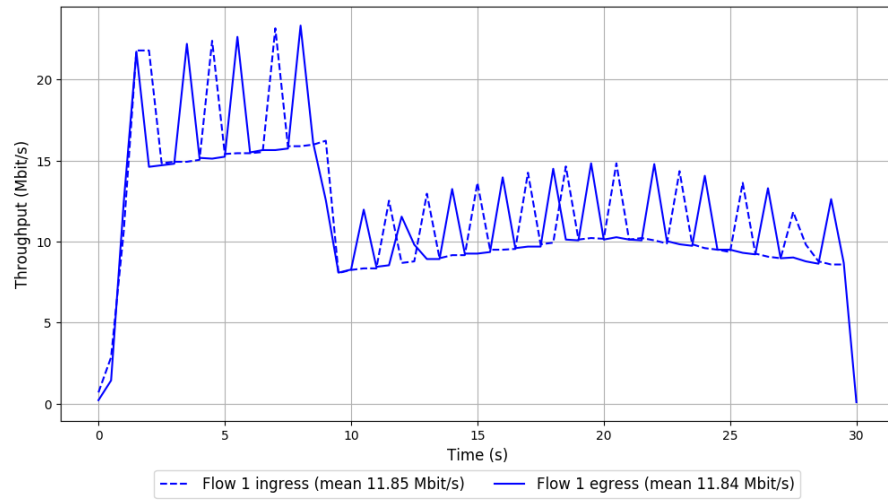
-- Flow 1:

Average throughput: 11.84 Mbit/s

95th percentile per-packet one-way delay: 113.947 ms

Loss rate: 0.03%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2017-12-11 10:31:16

End at: 2017-12-11 10:31:46

Below is generated by plot.py at 2017-12-11 11:57:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 19.71 Mbit/s

95th percentile per-packet one-way delay: 114.075 ms

Loss rate: 0.00%

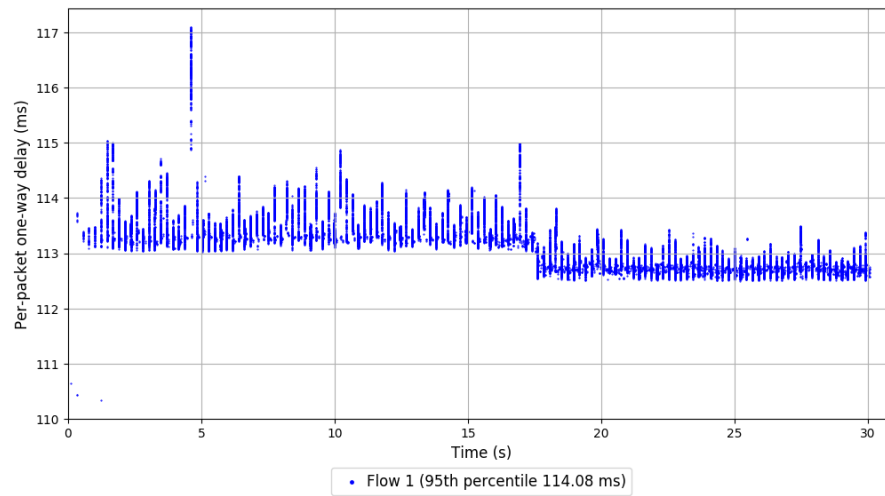
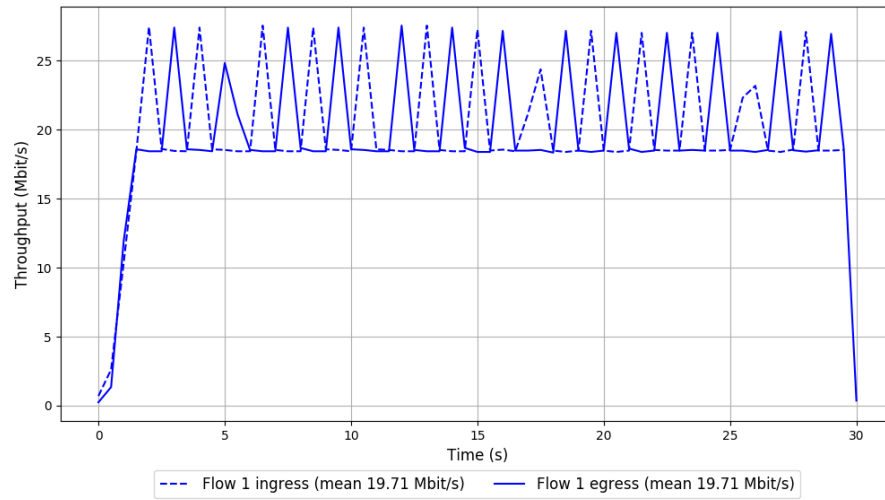
-- Flow 1:

Average throughput: 19.71 Mbit/s

95th percentile per-packet one-way delay: 114.075 ms

Loss rate: 0.00%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2017-12-11 10:42:02

End at: 2017-12-11 10:42:32

Below is generated by plot.py at 2017-12-11 11:57:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.97 Mbit/s

95th percentile per-packet one-way delay: 114.530 ms

Loss rate: 0.10%

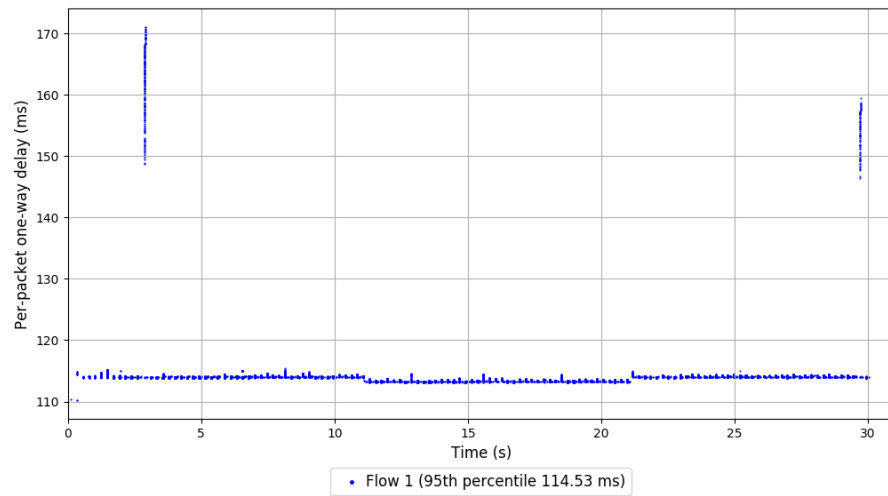
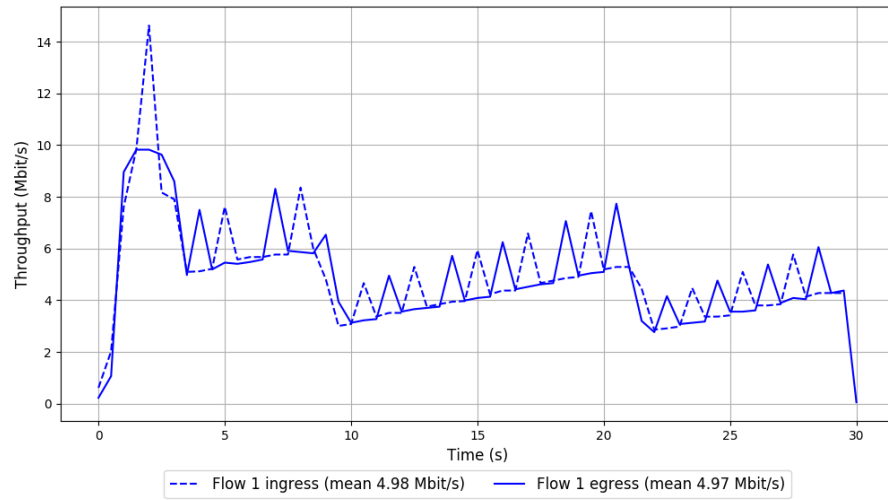
-- Flow 1:

Average throughput: 4.97 Mbit/s

95th percentile per-packet one-way delay: 114.530 ms

Loss rate: 0.10%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2017-12-11 10:52:49

End at: 2017-12-11 10:53:19

Below is generated by plot.py at 2017-12-11 11:57:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.50 Mbit/s

95th percentile per-packet one-way delay: 114.797 ms

Loss rate: 0.25%

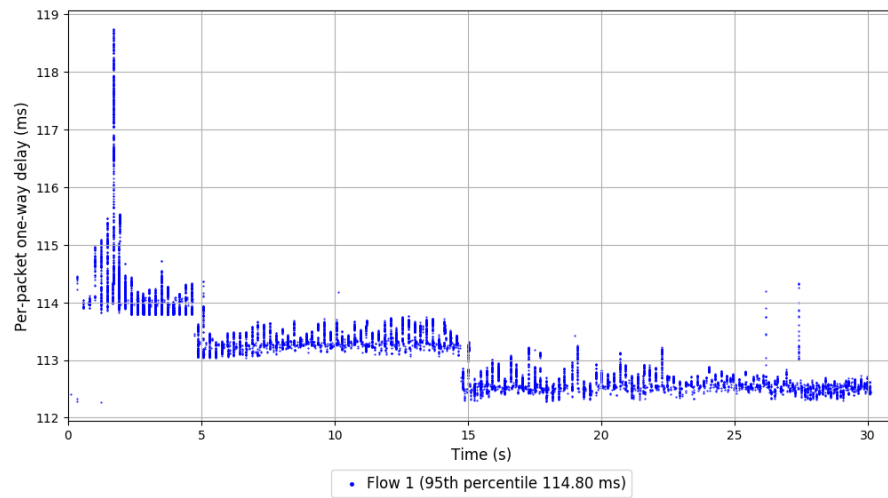
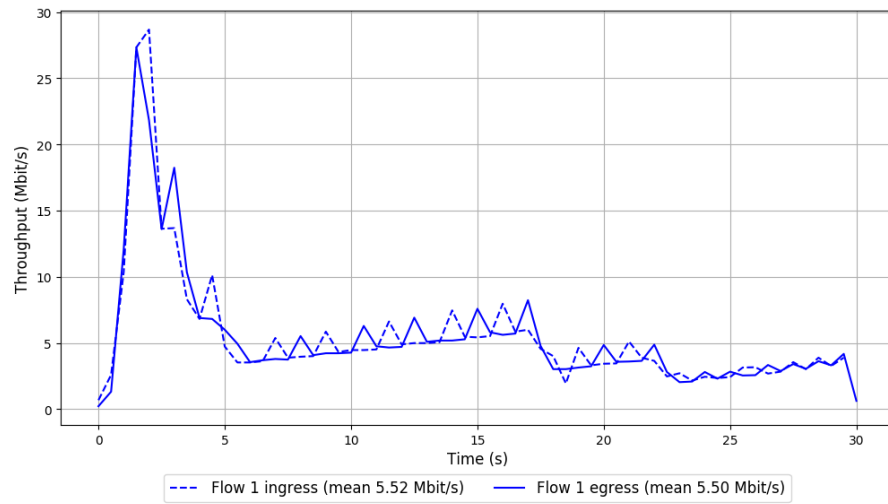
-- Flow 1:

Average throughput: 5.50 Mbit/s

95th percentile per-packet one-way delay: 114.797 ms

Loss rate: 0.25%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2017-12-11 09:12:05

End at: 2017-12-11 09:12:35

Below is generated by plot.py at 2017-12-11 11:57:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 183.11 Mbit/s

95th percentile per-packet one-way delay: 182.864 ms

Loss rate: 0.05%

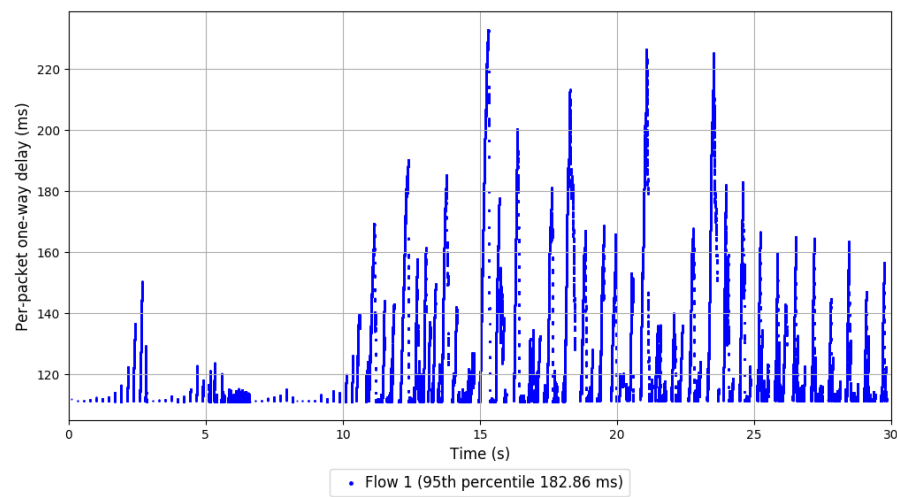
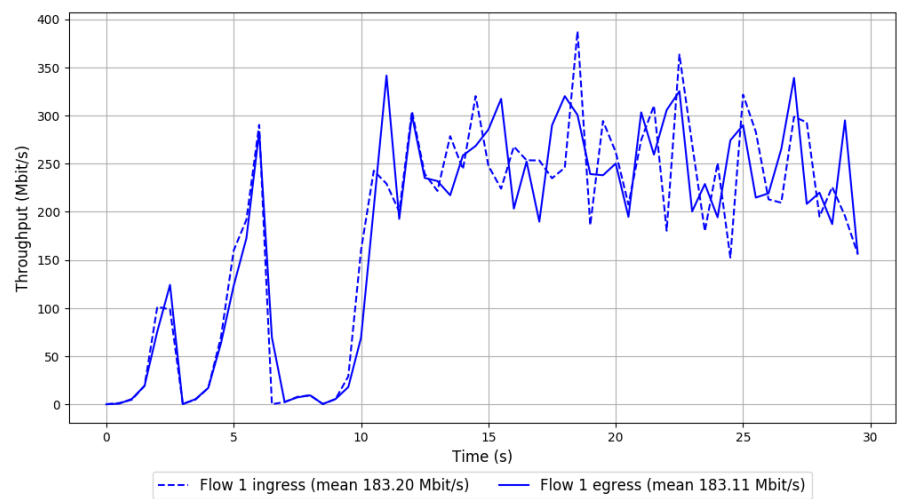
-- Flow 1:

Average throughput: 183.11 Mbit/s

95th percentile per-packet one-way delay: 182.864 ms

Loss rate: 0.05%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2017-12-11 09:23:10

End at: 2017-12-11 09:23:40

Below is generated by plot.py at 2017-12-11 11:57:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 152.89 Mbit/s

95th percentile per-packet one-way delay: 318.724 ms

Loss rate: 11.12%

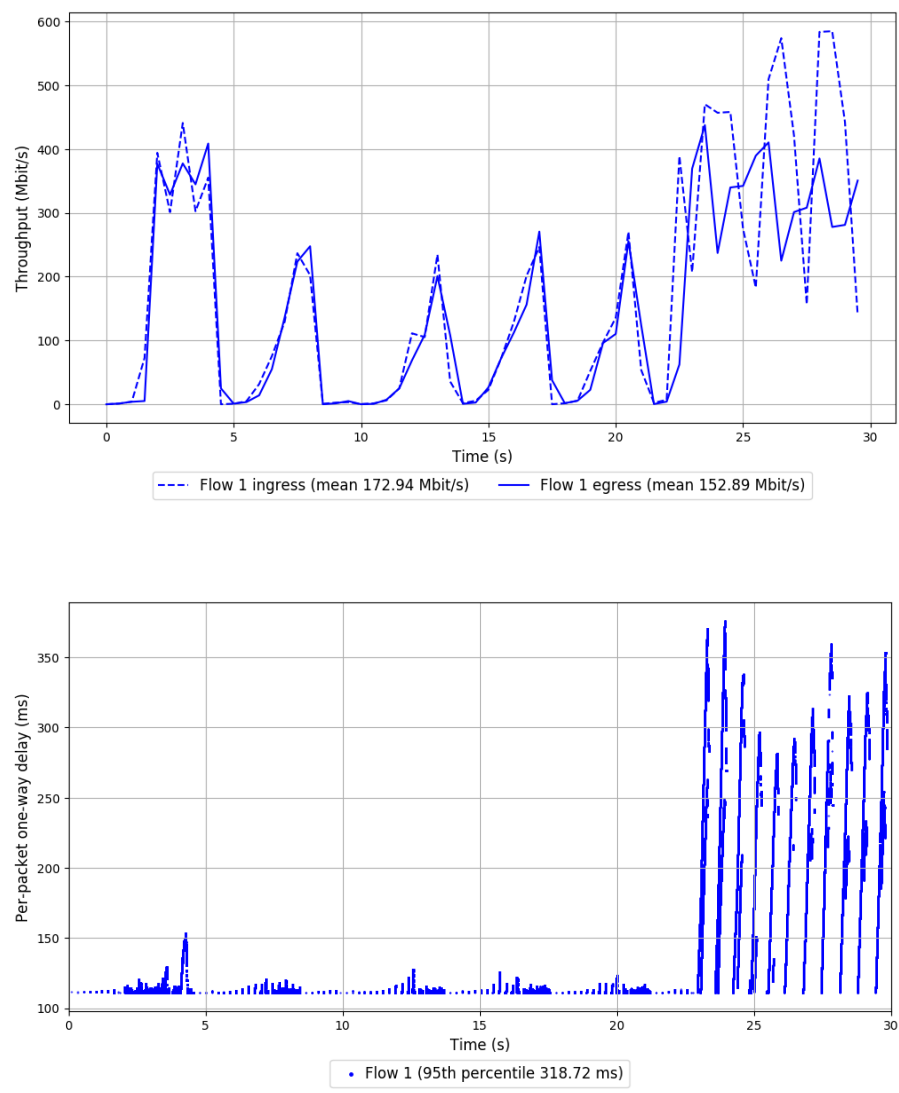
-- Flow 1:

Average throughput: 152.89 Mbit/s

95th percentile per-packet one-way delay: 318.724 ms

Loss rate: 11.12%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2017-12-11 09:34:23

End at: 2017-12-11 09:34:53

Below is generated by plot.py at 2017-12-11 11:58:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 212.80 Mbit/s

95th percentile per-packet one-way delay: 197.380 ms

Loss rate: 0.02%

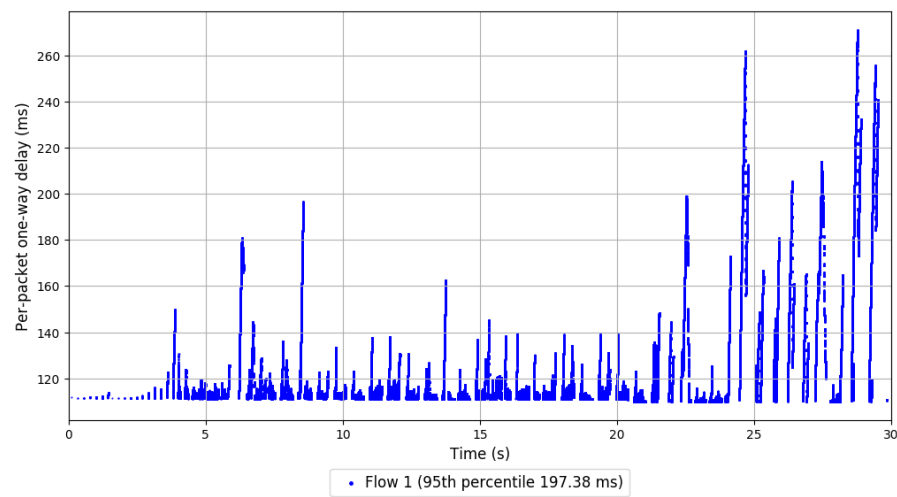
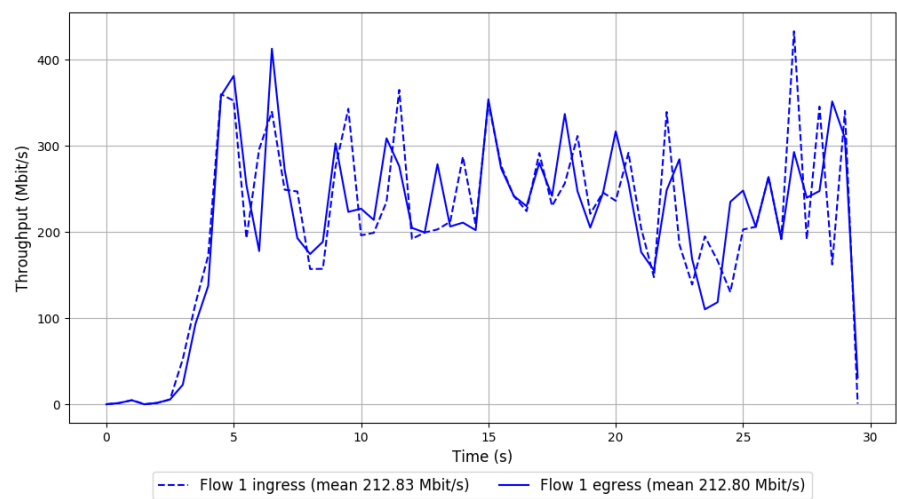
-- Flow 1:

Average throughput: 212.80 Mbit/s

95th percentile per-packet one-way delay: 197.380 ms

Loss rate: 0.02%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2017-12-11 09:45:31

End at: 2017-12-11 09:46:01

Below is generated by plot.py at 2017-12-11 11:59:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 249.10 Mbit/s

95th percentile per-packet one-way delay: 127.209 ms

Loss rate: 0.02%

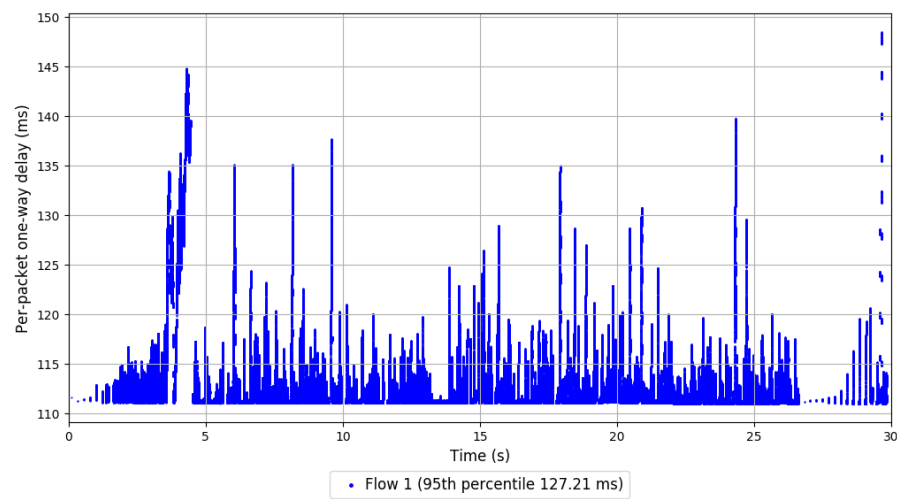
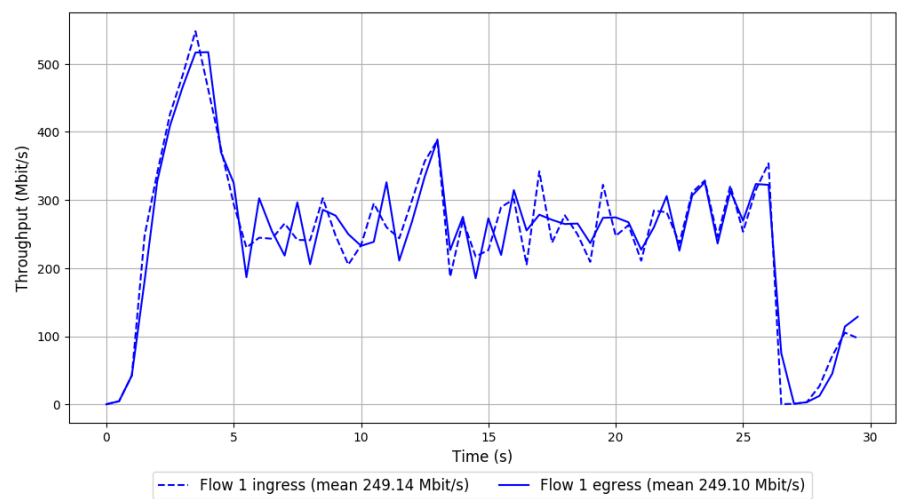
-- Flow 1:

Average throughput: 249.10 Mbit/s

95th percentile per-packet one-way delay: 127.209 ms

Loss rate: 0.02%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2017-12-11 09:56:19

End at: 2017-12-11 09:56:49

Below is generated by plot.py at 2017-12-11 11:59:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 158.54 Mbit/s

95th percentile per-packet one-way delay: 129.727 ms

Loss rate: 0.33%

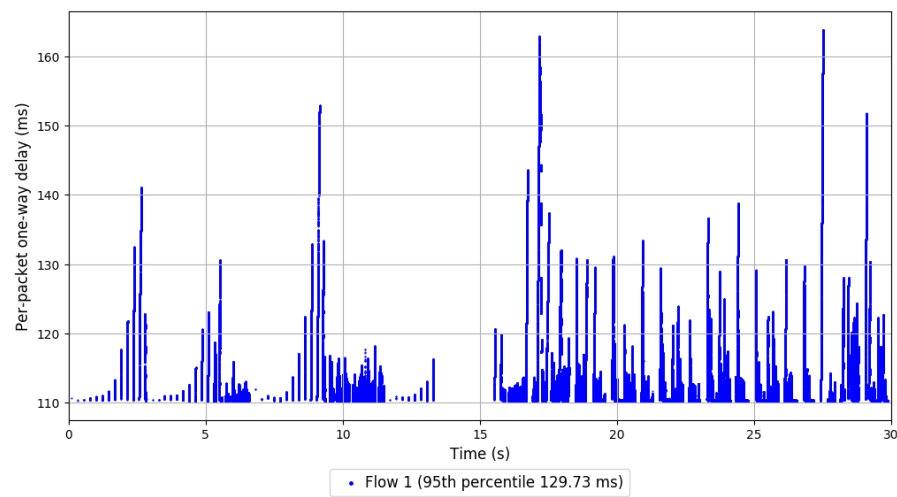
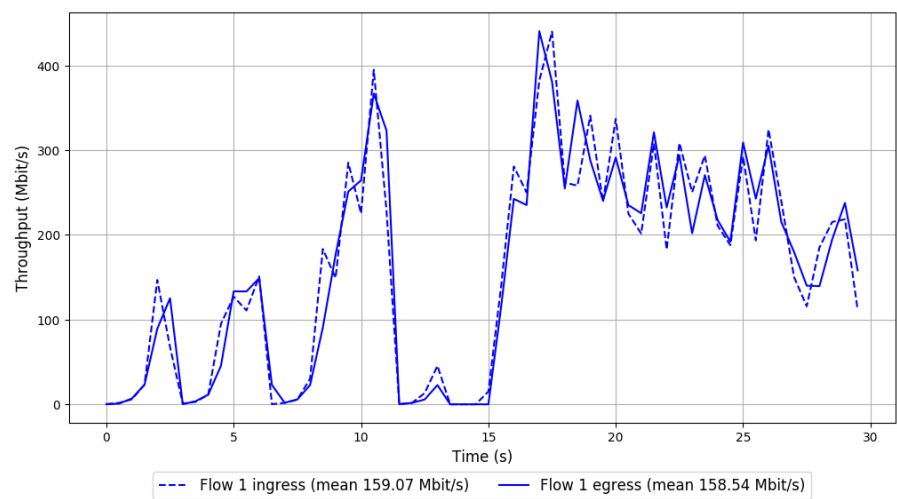
-- Flow 1:

Average throughput: 158.54 Mbit/s

95th percentile per-packet one-way delay: 129.727 ms

Loss rate: 0.33%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2017-12-11 10:07:22

End at: 2017-12-11 10:07:52

Below is generated by plot.py at 2017-12-11 12:00:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 181.35 Mbit/s

95th percentile per-packet one-way delay: 166.389 ms

Loss rate: 0.57%

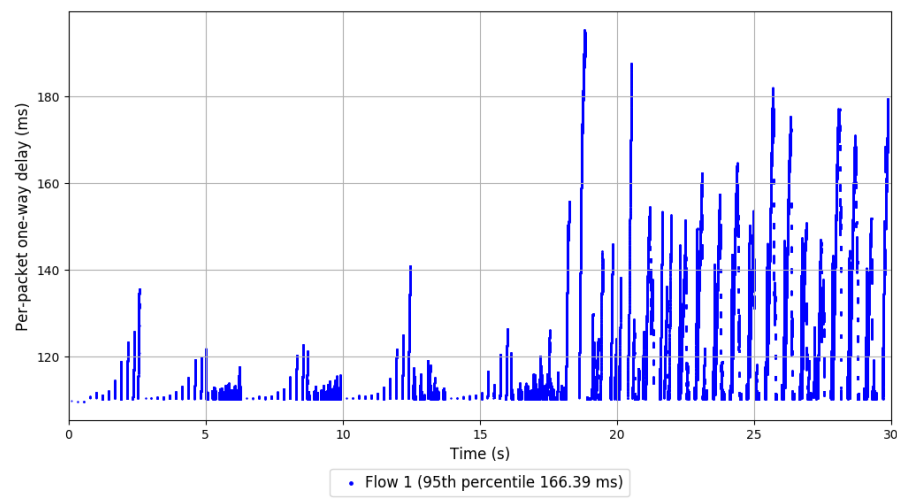
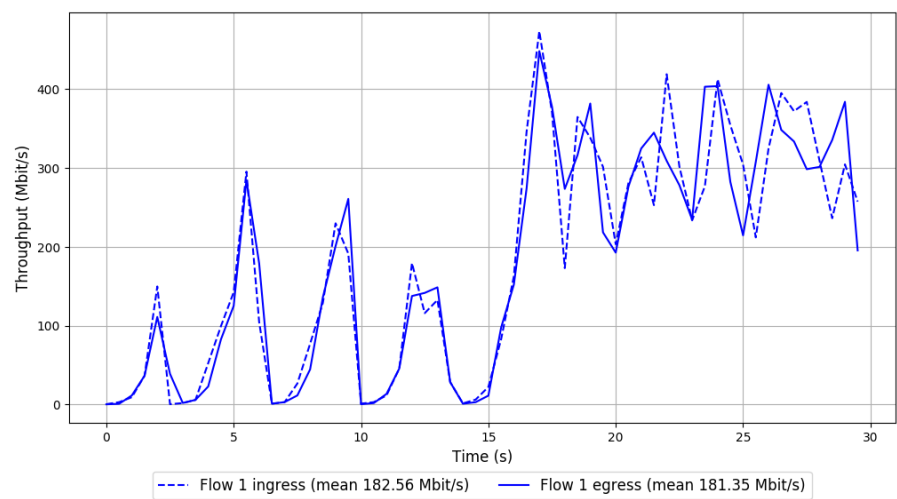
-- Flow 1:

Average throughput: 181.35 Mbit/s

95th percentile per-packet one-way delay: 166.389 ms

Loss rate: 0.57%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2017-12-11 10:18:32

End at: 2017-12-11 10:19:02

Below is generated by plot.py at 2017-12-11 12:00:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 195.89 Mbit/s

95th percentile per-packet one-way delay: 161.094 ms

Loss rate: 0.20%

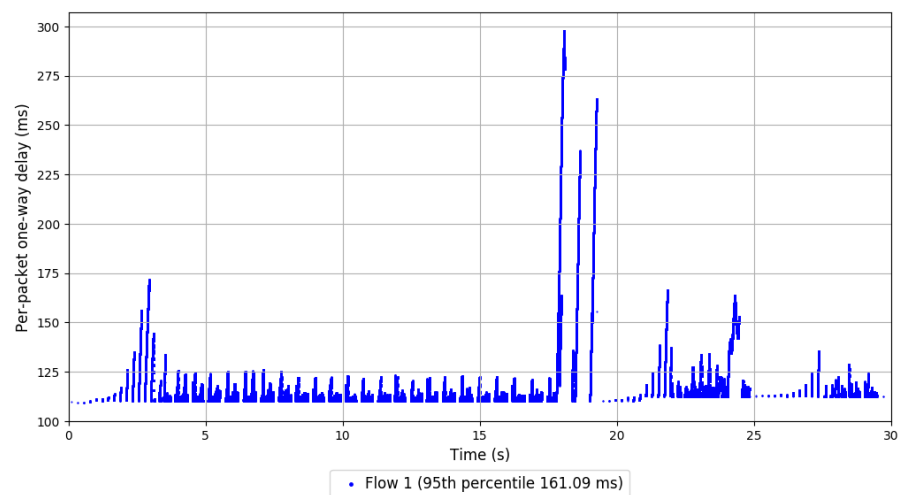
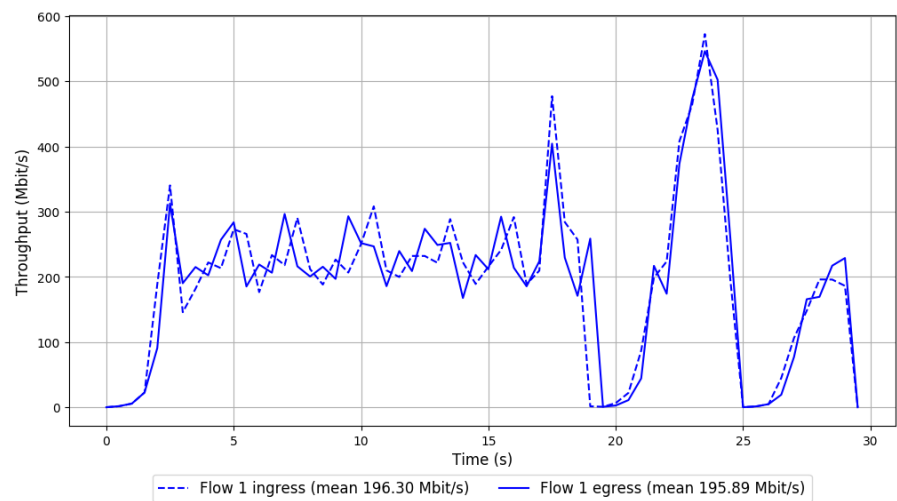
-- Flow 1:

Average throughput: 195.89 Mbit/s

95th percentile per-packet one-way delay: 161.094 ms

Loss rate: 0.20%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2017-12-11 10:29:29

End at: 2017-12-11 10:29:59

Below is generated by plot.py at 2017-12-11 12:00:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 101.19 Mbit/s

95th percentile per-packet one-way delay: 147.309 ms

Loss rate: 0.02%

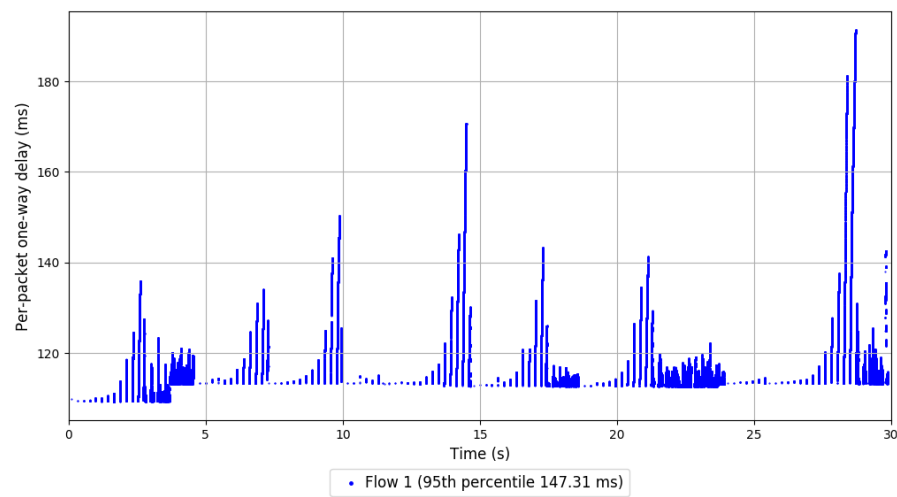
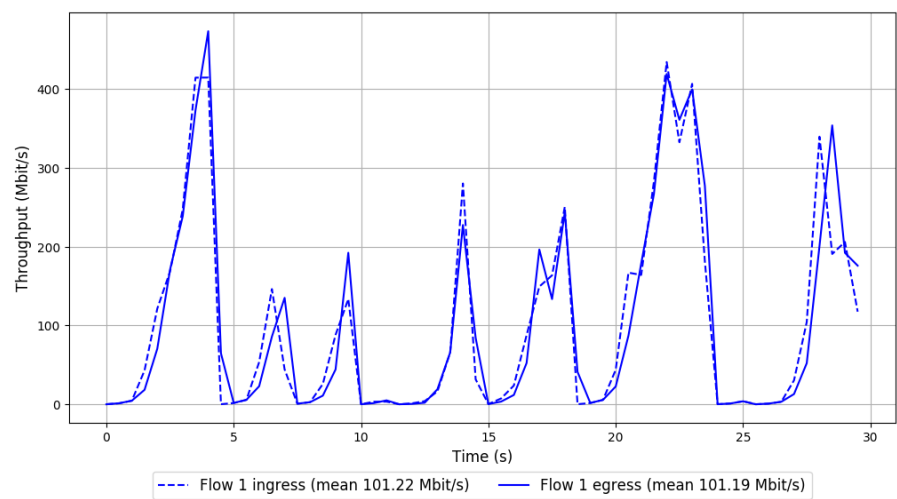
-- Flow 1:

Average throughput: 101.19 Mbit/s

95th percentile per-packet one-way delay: 147.309 ms

Loss rate: 0.02%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2017-12-11 10:40:33

End at: 2017-12-11 10:41:03

Below is generated by plot.py at 2017-12-11 12:00:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.78 Mbit/s

95th percentile per-packet one-way delay: 124.935 ms

Loss rate: 0.08%

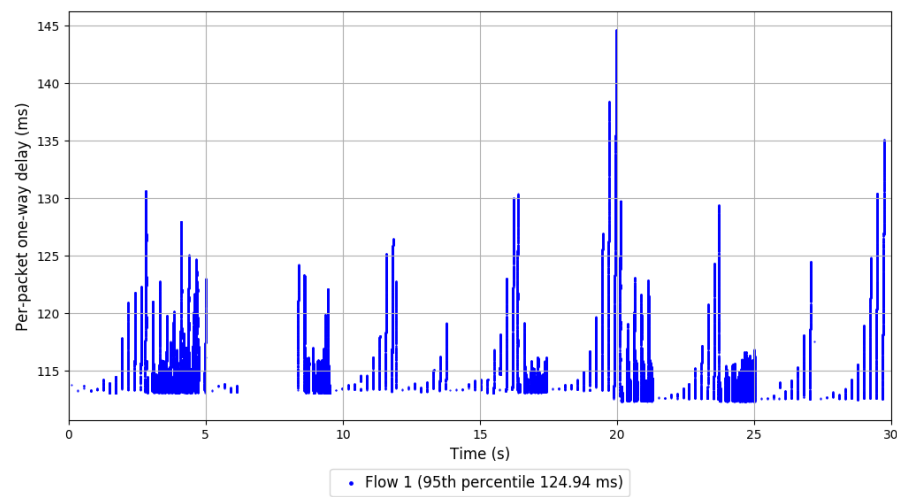
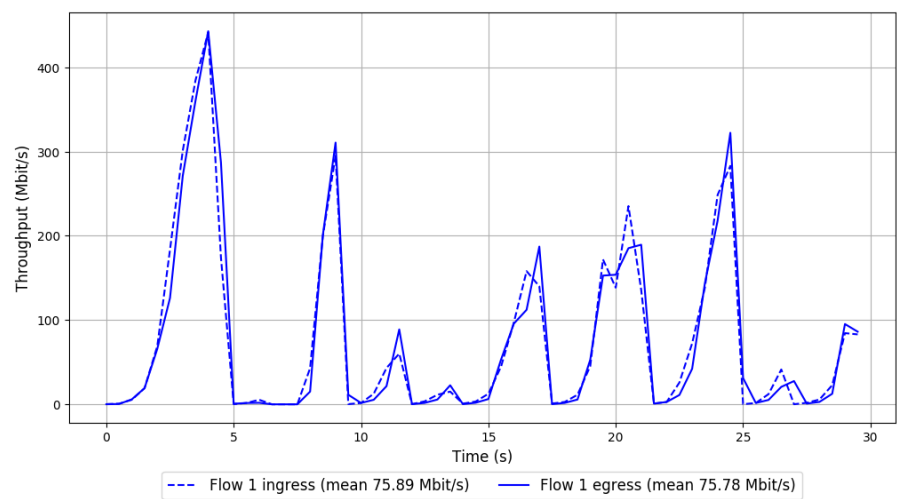
-- Flow 1:

Average throughput: 75.78 Mbit/s

95th percentile per-packet one-way delay: 124.935 ms

Loss rate: 0.08%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2017-12-11 10:51:15

End at: 2017-12-11 10:51:45

Below is generated by plot.py at 2017-12-11 12:00:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 153.18 Mbit/s

95th percentile per-packet one-way delay: 154.926 ms

Loss rate: 0.00%

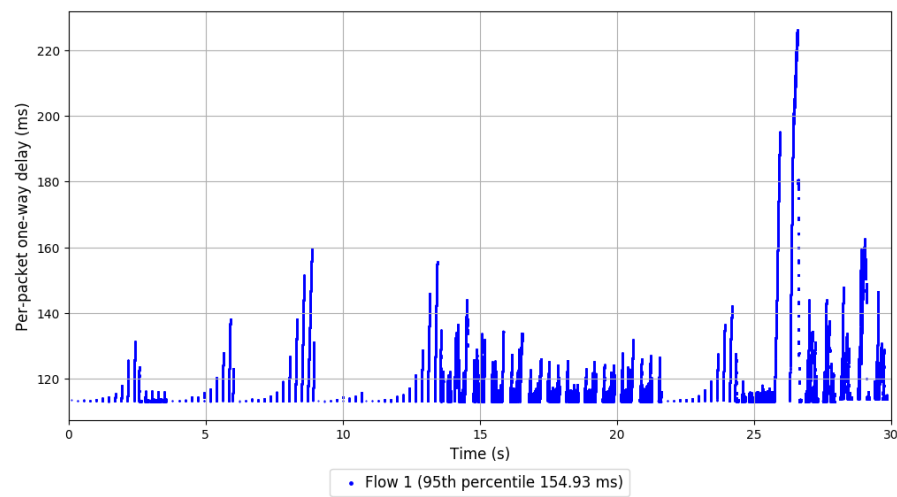
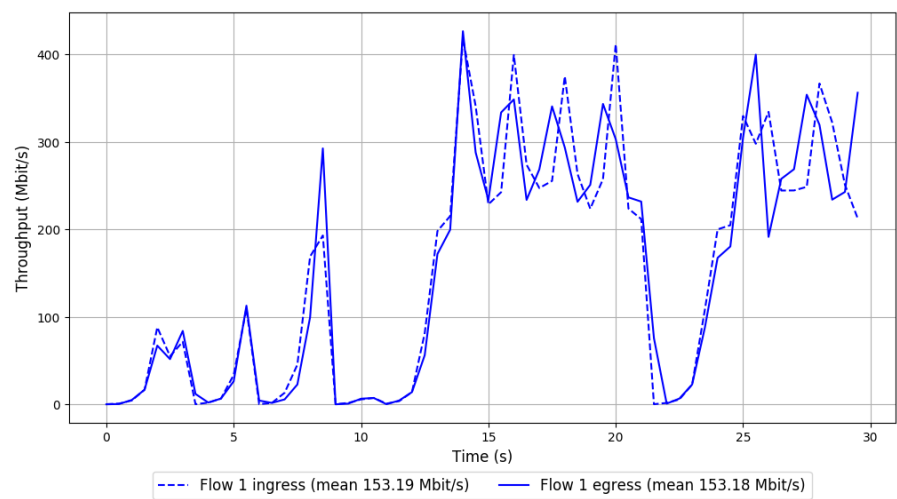
-- Flow 1:

Average throughput: 153.18 Mbit/s

95th percentile per-packet one-way delay: 154.926 ms

Loss rate: 0.00%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2017-12-11 09:14:39

End at: 2017-12-11 09:15:09

Below is generated by plot.py at 2017-12-11 12:00:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 66.77 Mbit/s

95th percentile per-packet one-way delay: 112.180 ms

Loss rate: 0.00%

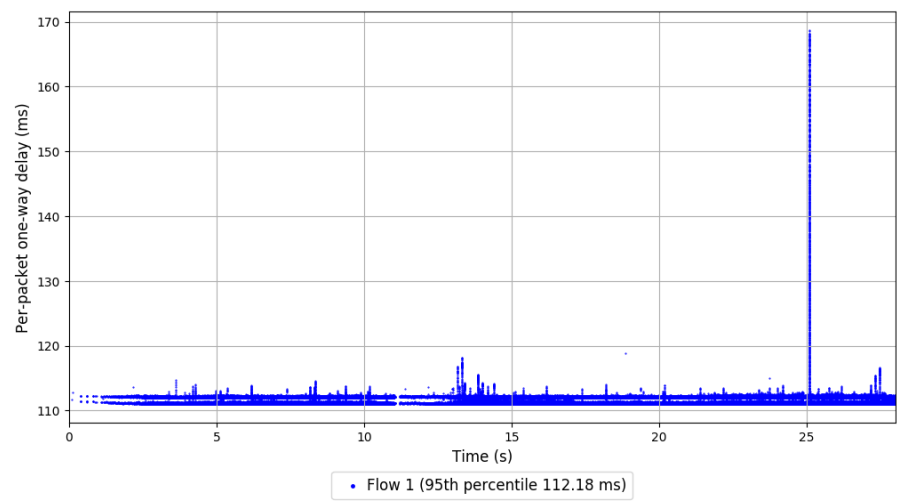
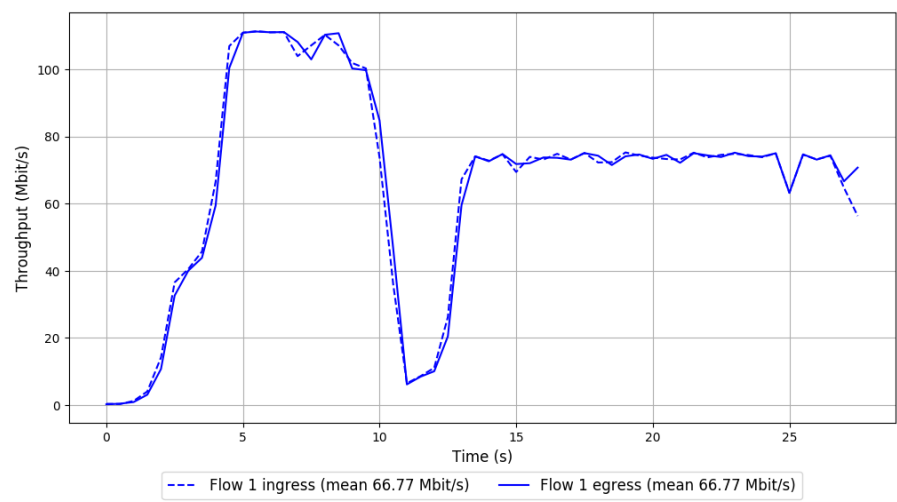
-- Flow 1:

Average throughput: 66.77 Mbit/s

95th percentile per-packet one-way delay: 112.180 ms

Loss rate: 0.00%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2017-12-11 09:25:48

End at: 2017-12-11 09:26:18

Below is generated by plot.py at 2017-12-11 12:00:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.13 Mbit/s

95th percentile per-packet one-way delay: 111.357 ms

Loss rate: 0.00%

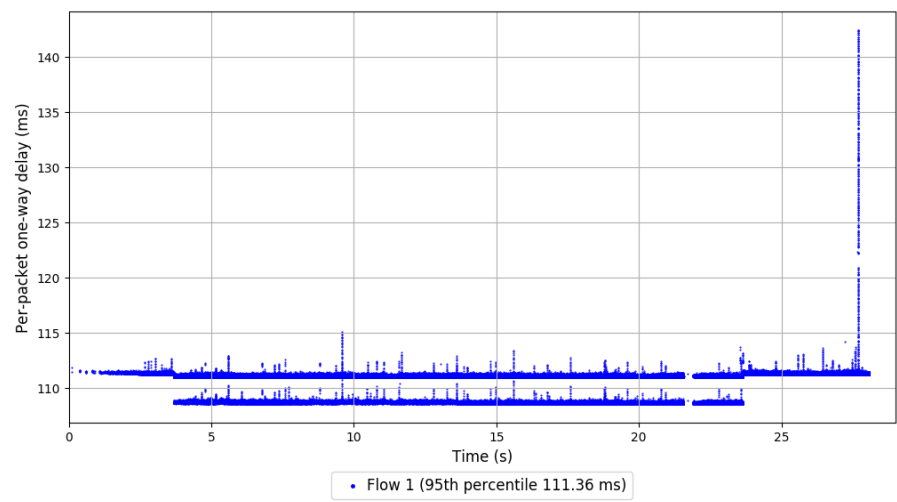
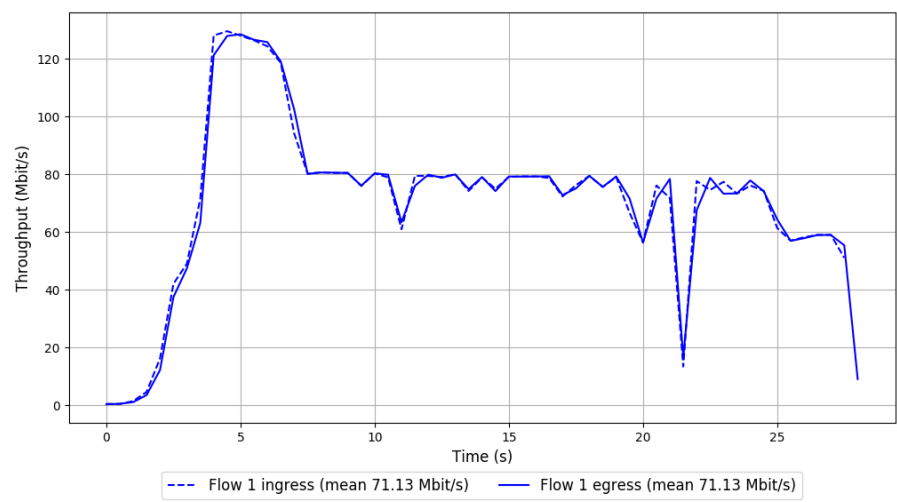
-- Flow 1:

Average throughput: 71.13 Mbit/s

95th percentile per-packet one-way delay: 111.357 ms

Loss rate: 0.00%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2017-12-11 09:36:55

End at: 2017-12-11 09:37:25

Below is generated by plot.py at 2017-12-11 12:01:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.44 Mbit/s

95th percentile per-packet one-way delay: 111.344 ms

Loss rate: 0.00%

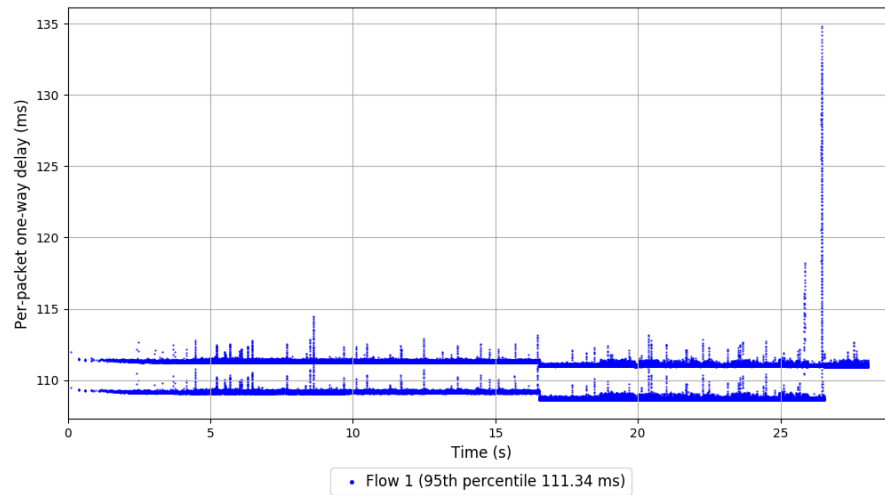
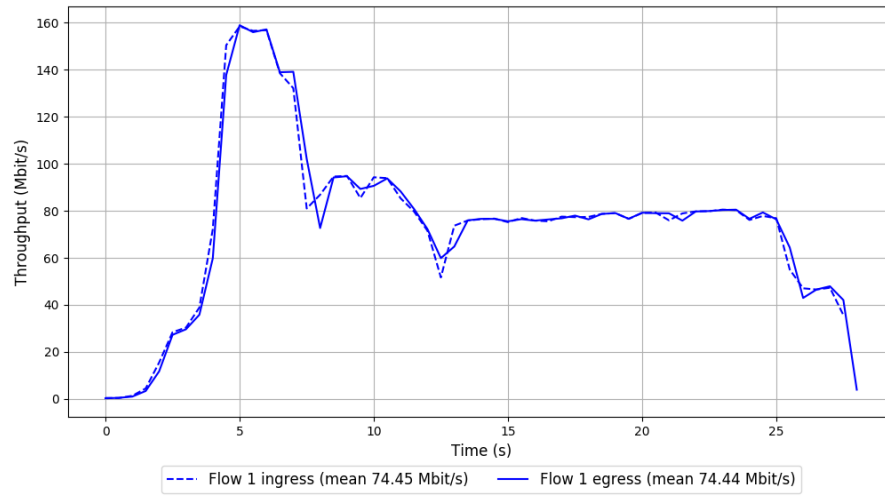
-- Flow 1:

Average throughput: 74.44 Mbit/s

95th percentile per-packet one-way delay: 111.344 ms

Loss rate: 0.00%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2017-12-11 09:47:57

End at: 2017-12-11 09:48:27

Below is generated by plot.py at 2017-12-11 12:01:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.95 Mbit/s

95th percentile per-packet one-way delay: 112.512 ms

Loss rate: 0.00%

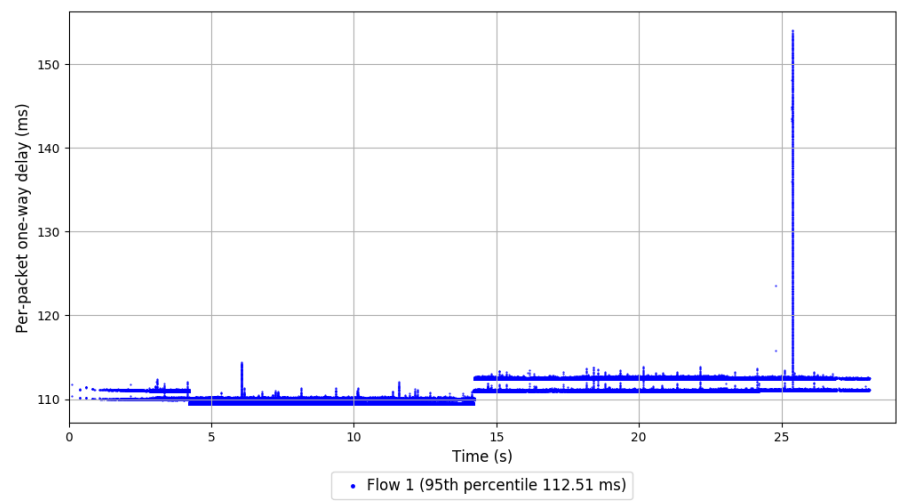
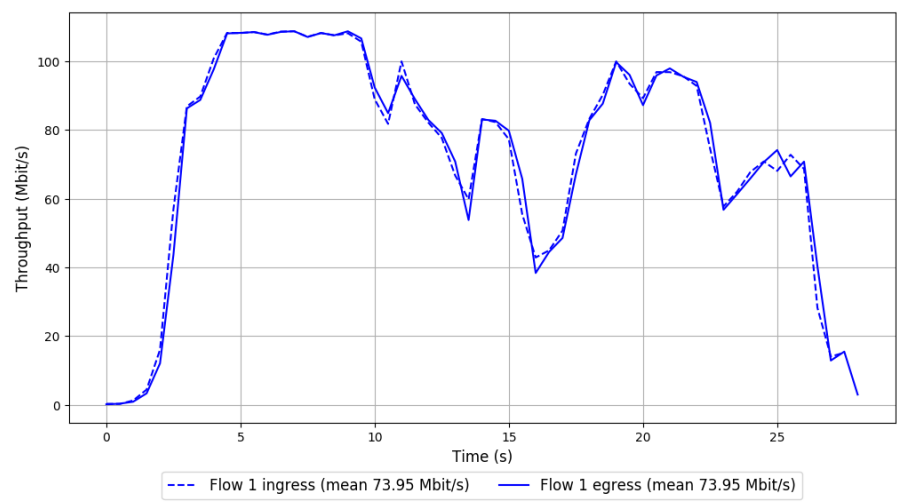
-- Flow 1:

Average throughput: 73.95 Mbit/s

95th percentile per-packet one-way delay: 112.512 ms

Loss rate: 0.00%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2017-12-11 09:58:48

End at: 2017-12-11 09:59:18

Below is generated by plot.py at 2017-12-11 12:01:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 56.03 Mbit/s

95th percentile per-packet one-way delay: 111.040 ms

Loss rate: 0.00%

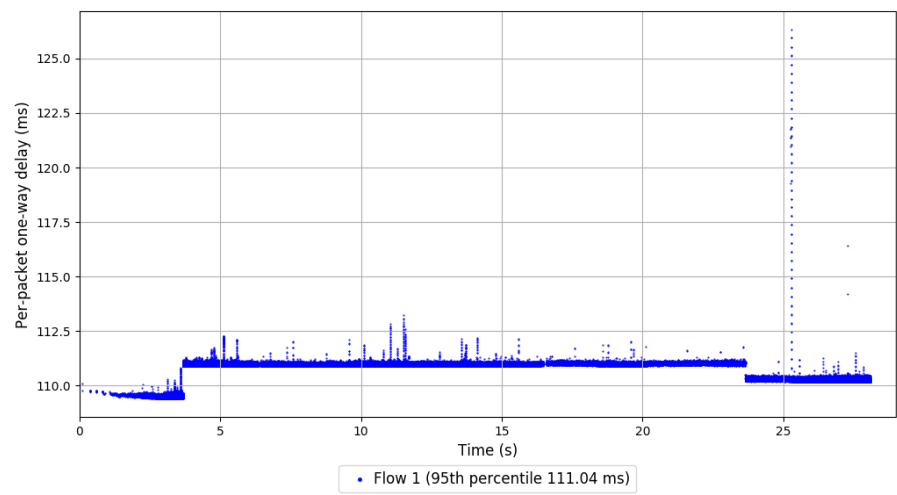
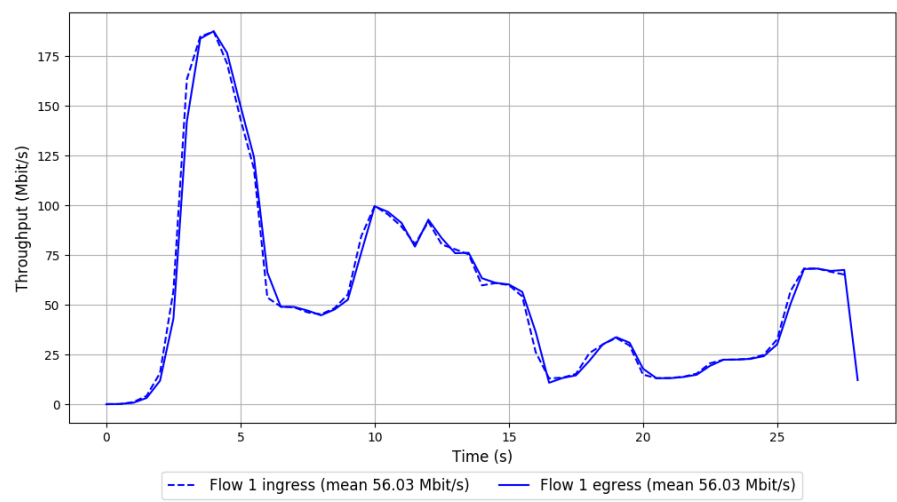
-- Flow 1:

Average throughput: 56.03 Mbit/s

95th percentile per-packet one-way delay: 111.040 ms

Loss rate: 0.00%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2017-12-11 10:09:55

End at: 2017-12-11 10:10:25

Below is generated by plot.py at 2017-12-11 12:02:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.70 Mbit/s

95th percentile per-packet one-way delay: 112.466 ms

Loss rate: 0.00%

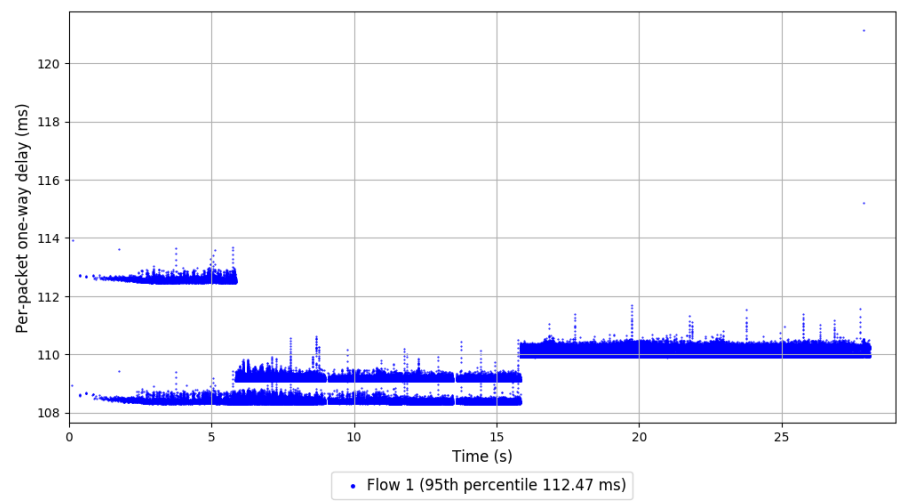
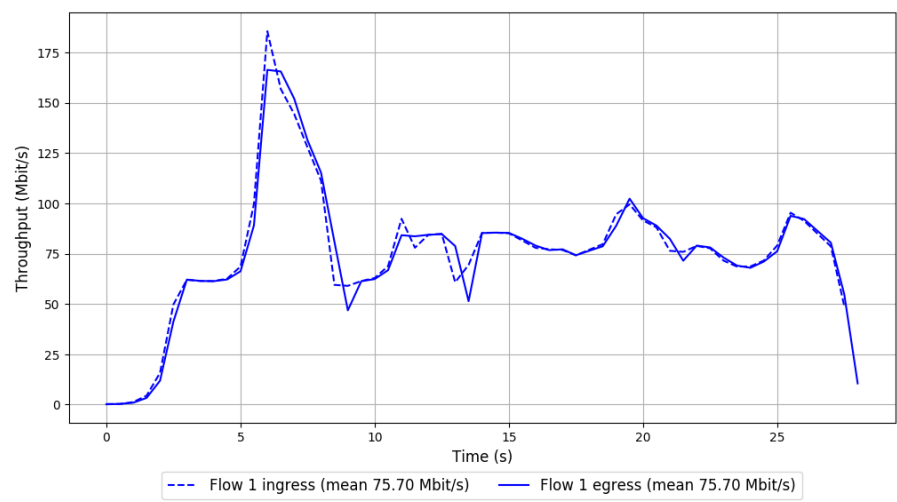
-- Flow 1:

Average throughput: 75.70 Mbit/s

95th percentile per-packet one-way delay: 112.466 ms

Loss rate: 0.00%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2017-12-11 10:20:54

End at: 2017-12-11 10:21:24

Below is generated by plot.py at 2017-12-11 12:02:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.63 Mbit/s

95th percentile per-packet one-way delay: 113.096 ms

Loss rate: 0.00%

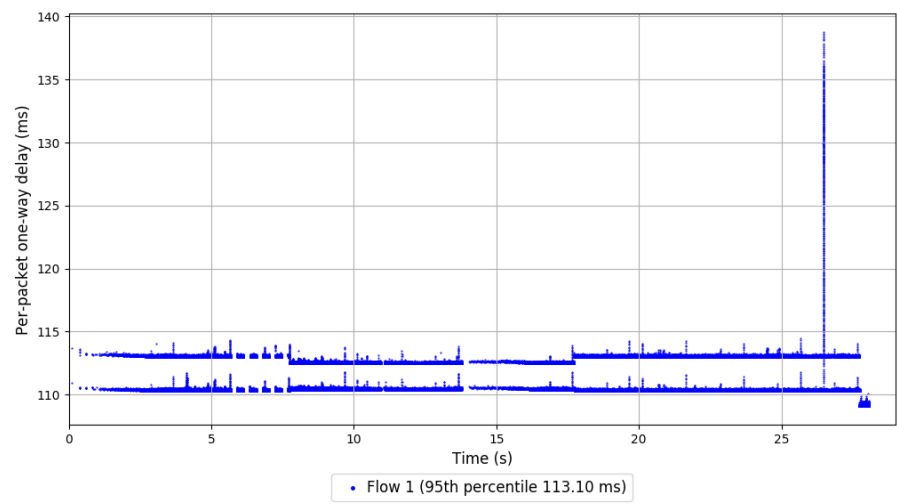
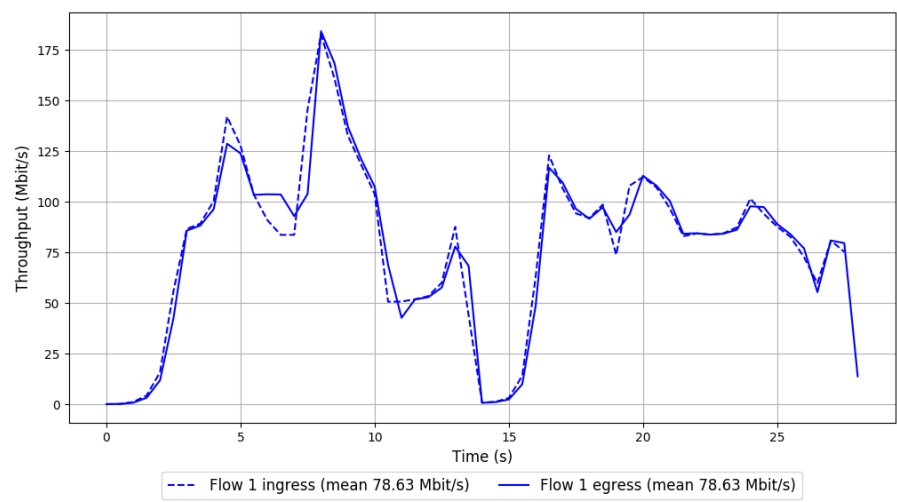
-- Flow 1:

Average throughput: 78.63 Mbit/s

95th percentile per-packet one-way delay: 113.096 ms

Loss rate: 0.00%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2017-12-11 10:31:58

End at: 2017-12-11 10:32:28

Below is generated by plot.py at 2017-12-11 12:02:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.76 Mbit/s

95th percentile per-packet one-way delay: 113.109 ms

Loss rate: 0.00%

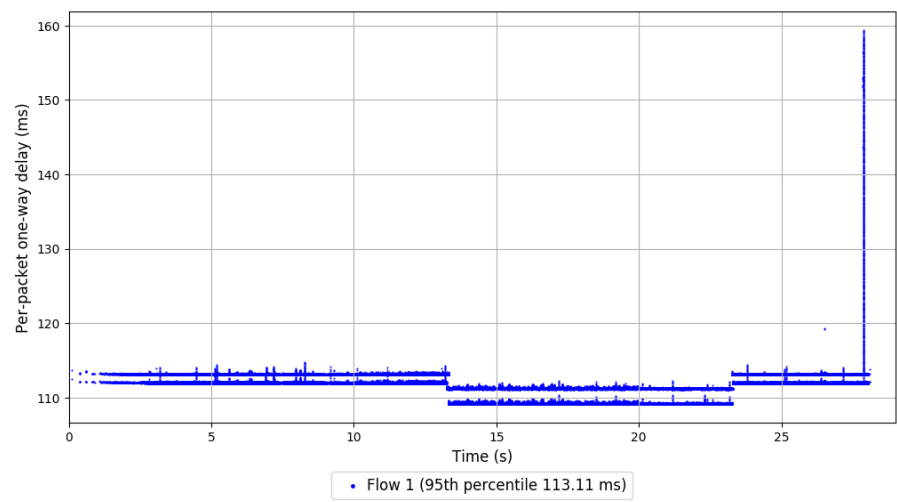
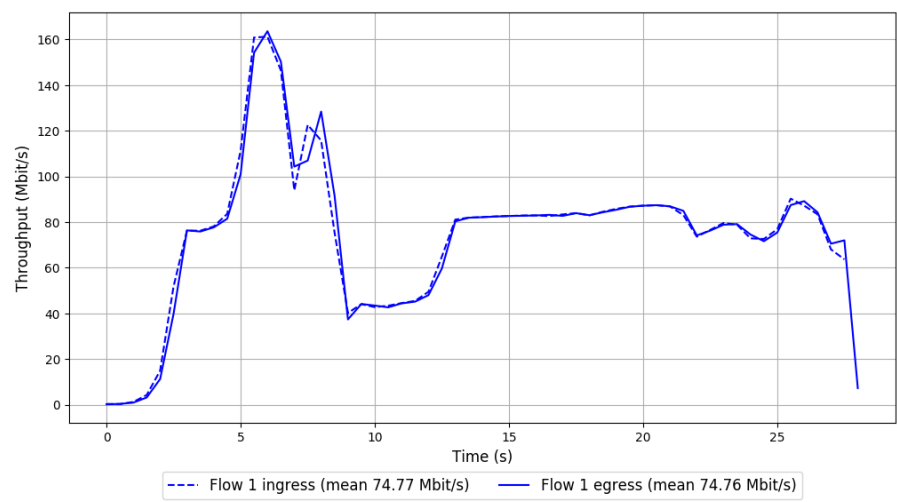
-- Flow 1:

Average throughput: 74.76 Mbit/s

95th percentile per-packet one-way delay: 113.109 ms

Loss rate: 0.00%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2017-12-11 10:42:43

End at: 2017-12-11 10:43:13

Below is generated by plot.py at 2017-12-11 12:02:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.18 Mbit/s

95th percentile per-packet one-way delay: 113.170 ms

Loss rate: 0.00%

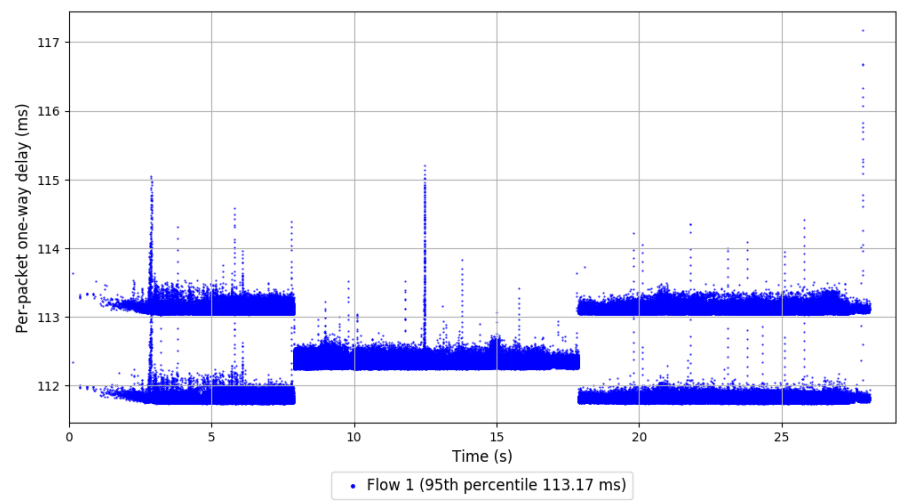
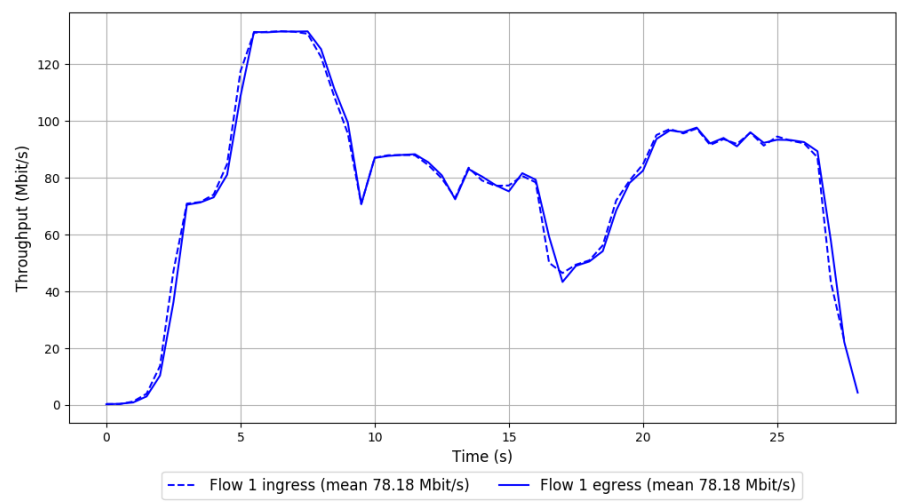
-- Flow 1:

Average throughput: 78.18 Mbit/s

95th percentile per-packet one-way delay: 113.170 ms

Loss rate: 0.00%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2017-12-11 10:53:30

End at: 2017-12-11 10:54:00

Below is generated by plot.py at 2017-12-11 12:03:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.86 Mbit/s

95th percentile per-packet one-way delay: 113.167 ms

Loss rate: 0.01%

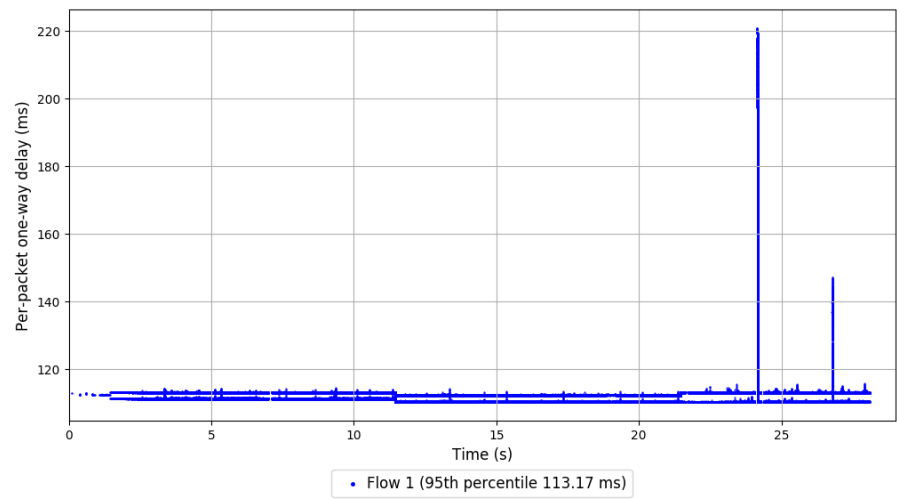
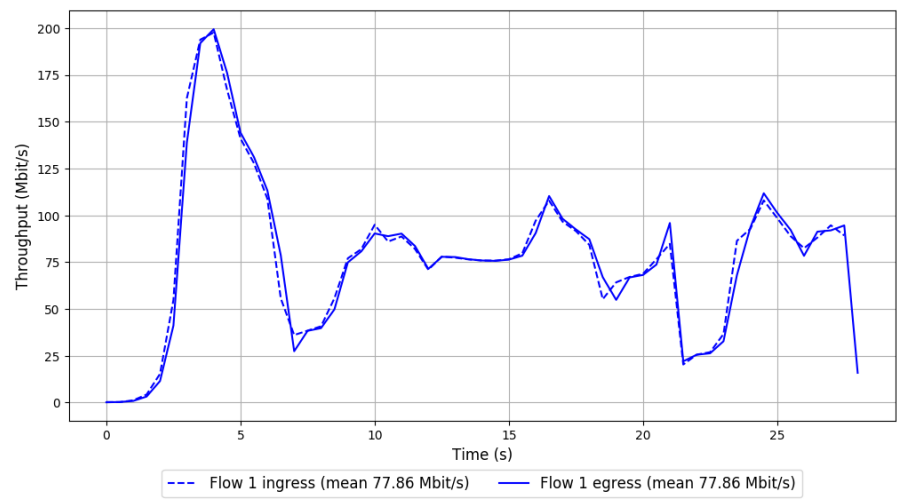
-- Flow 1:

Average throughput: 77.86 Mbit/s

95th percentile per-packet one-way delay: 113.167 ms

Loss rate: 0.01%

Run 10: Report of Copa — Data Link

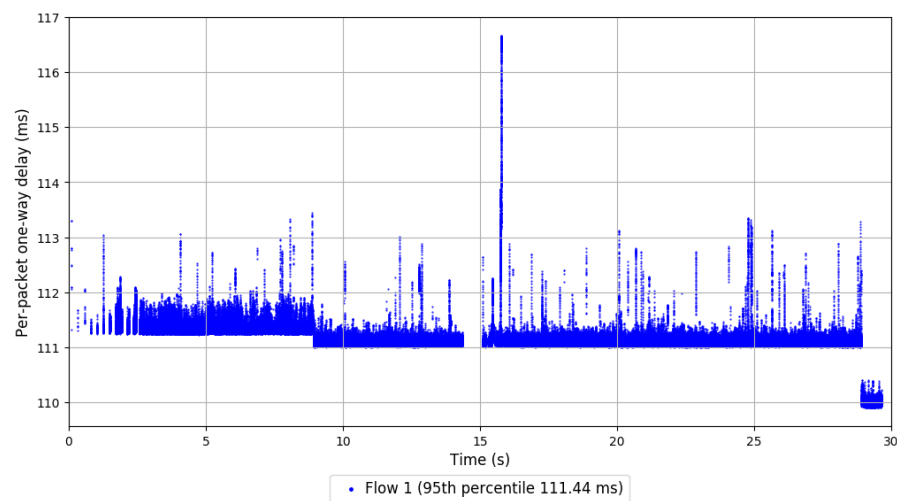
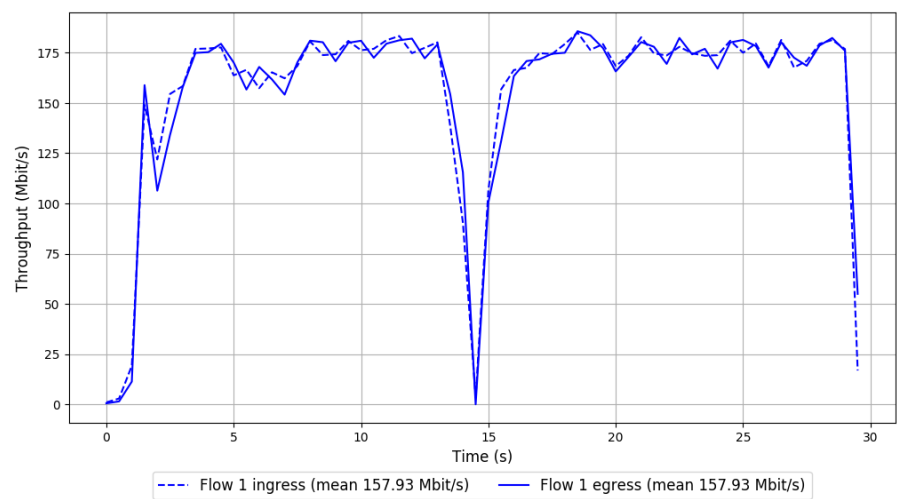


```
Run 1: Statistics of Indigo

Start at: 2017-12-11 09:20:54
End at: 2017-12-11 09:21:24

# Below is generated by plot.py at 2017-12-11 12:03:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 157.93 Mbit/s
95th percentile per-packet one-way delay: 111.445 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 157.93 Mbit/s
95th percentile per-packet one-way delay: 111.445 ms
Loss rate: 0.01%
```


Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2017-12-11 09:32:06

End at: 2017-12-11 09:32:36

Below is generated by plot.py at 2017-12-11 12:04:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 165.10 Mbit/s

95th percentile per-packet one-way delay: 111.373 ms

Loss rate: 0.00%

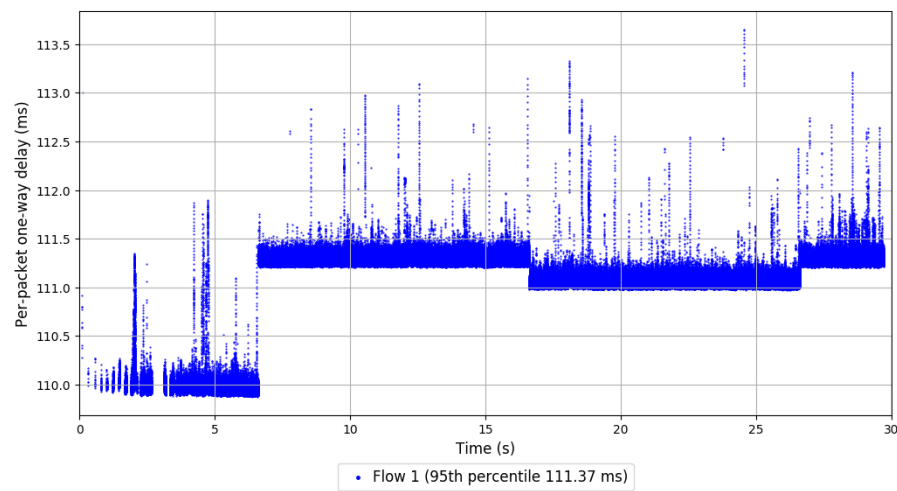
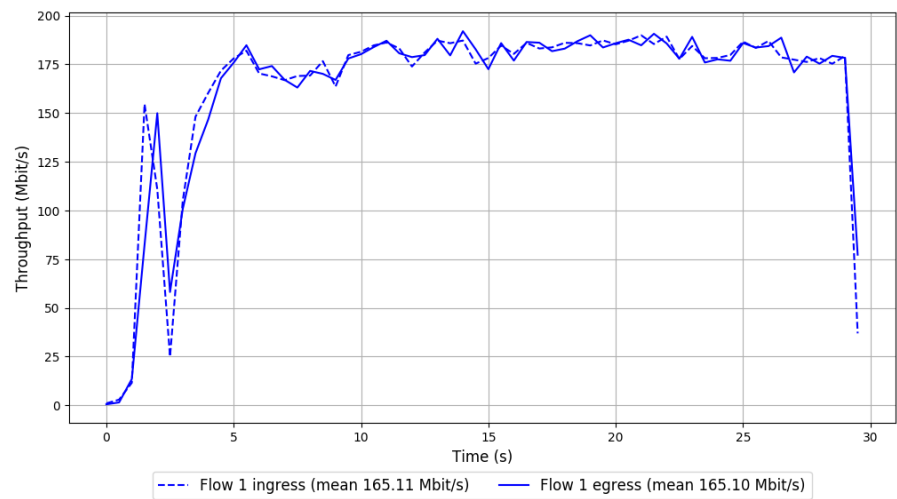
-- Flow 1:

Average throughput: 165.10 Mbit/s

95th percentile per-packet one-way delay: 111.373 ms

Loss rate: 0.00%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2017-12-11 09:43:16

End at: 2017-12-11 09:43:46

Below is generated by plot.py at 2017-12-11 12:04:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 172.75 Mbit/s

95th percentile per-packet one-way delay: 111.131 ms

Loss rate: 0.00%

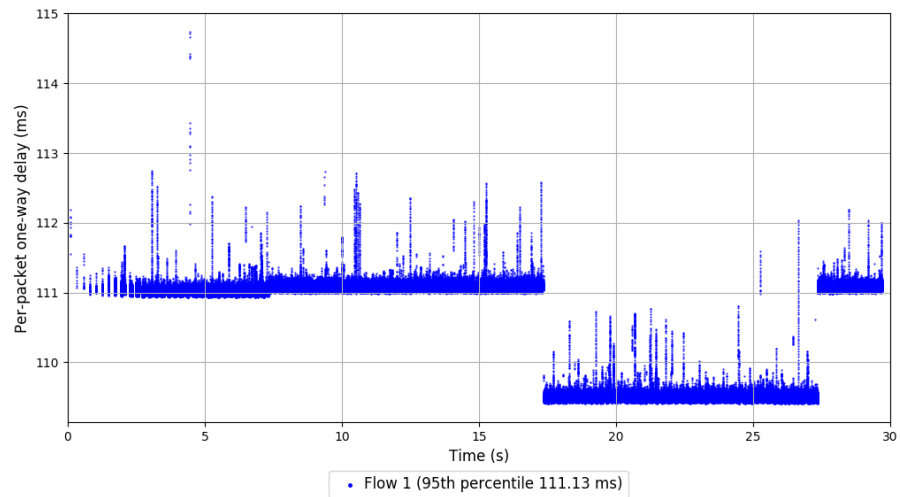
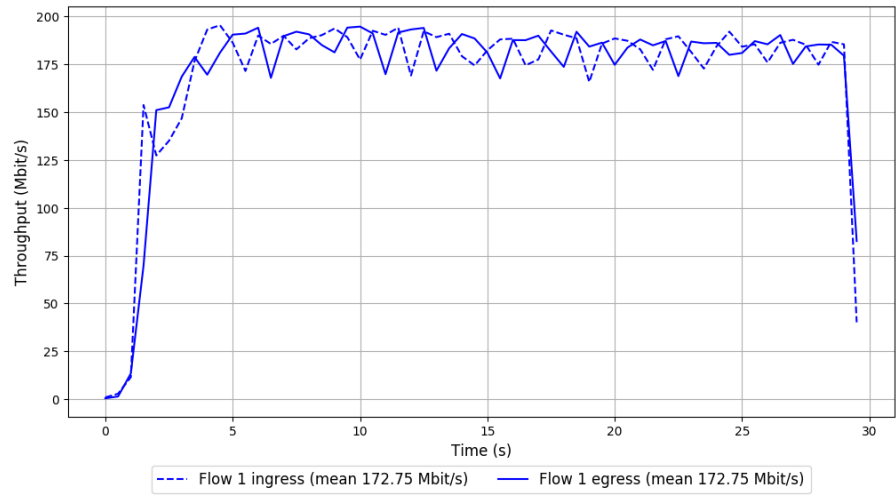
-- Flow 1:

Average throughput: 172.75 Mbit/s

95th percentile per-packet one-way delay: 111.131 ms

Loss rate: 0.00%

Run 3: Report of Indigo — Data Link

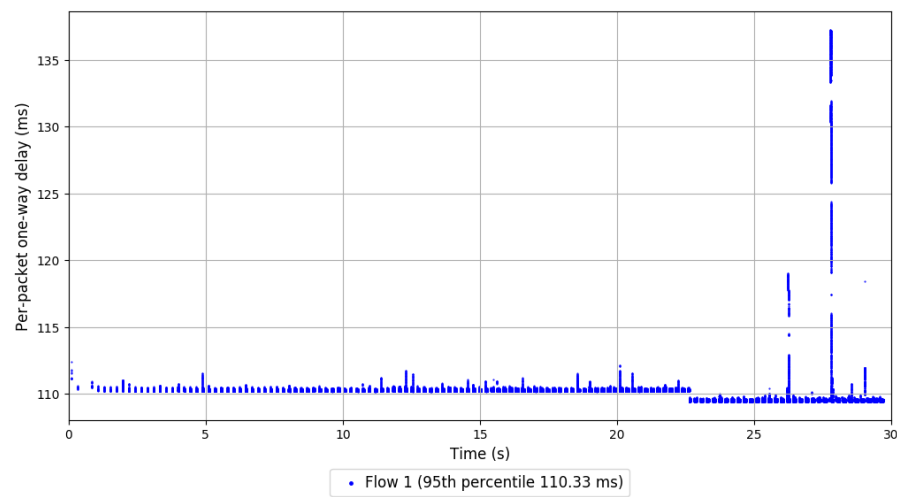
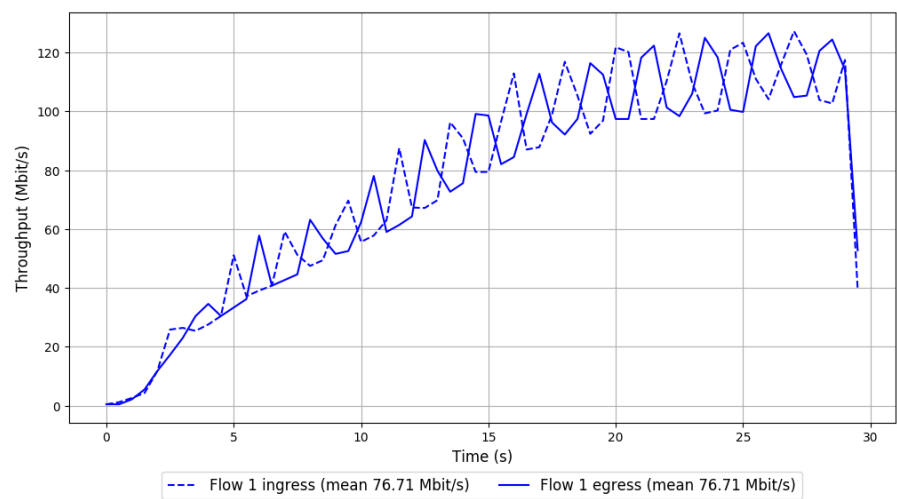


```
Run 4: Statistics of Indigo

Start at: 2017-12-11 09:54:10
End at: 2017-12-11 09:54:40

# Below is generated by plot.py at 2017-12-11 12:04:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.71 Mbit/s
95th percentile per-packet one-way delay: 110.328 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 76.71 Mbit/s
95th percentile per-packet one-way delay: 110.328 ms
Loss rate: 0.00%
```

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2017-12-11 10:05:07

End at: 2017-12-11 10:05:37

Below is generated by plot.py at 2017-12-11 12:05:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 172.62 Mbit/s

95th percentile per-packet one-way delay: 111.004 ms

Loss rate: 0.01%

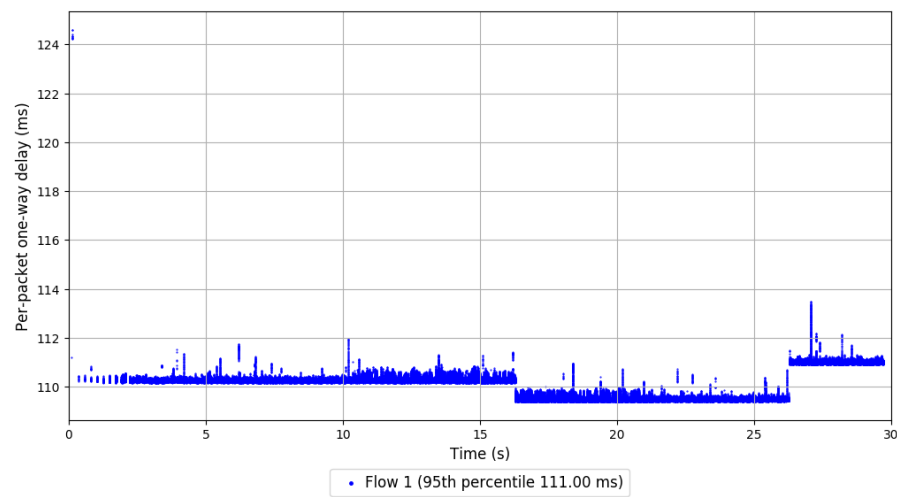
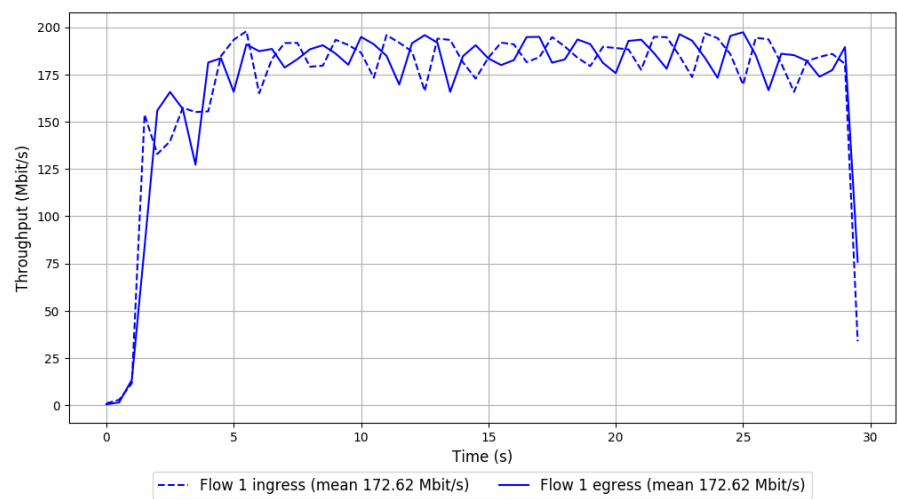
-- Flow 1:

Average throughput: 172.62 Mbit/s

95th percentile per-packet one-way delay: 111.004 ms

Loss rate: 0.01%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2017-12-11 10:16:16

End at: 2017-12-11 10:16:46

Below is generated by plot.py at 2017-12-11 12:05:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 174.74 Mbit/s

95th percentile per-packet one-way delay: 110.320 ms

Loss rate: 0.00%

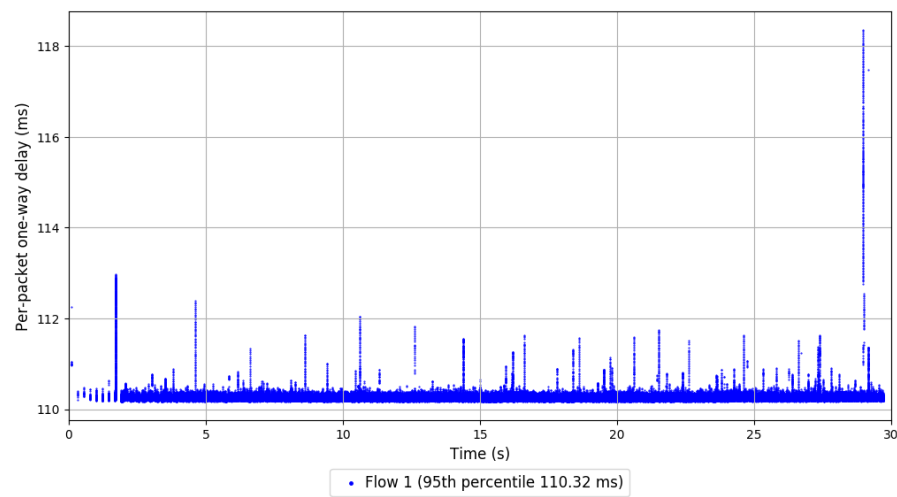
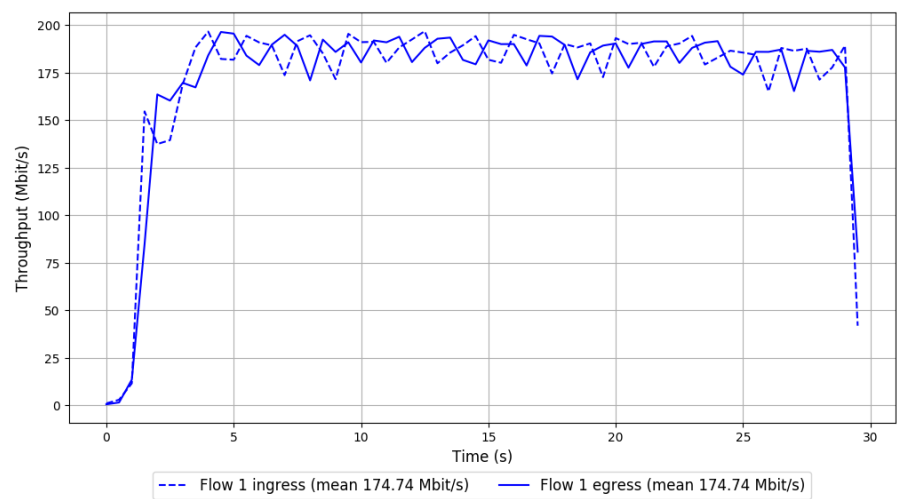
-- Flow 1:

Average throughput: 174.74 Mbit/s

95th percentile per-packet one-way delay: 110.320 ms

Loss rate: 0.00%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2017-12-11 10:27:14

End at: 2017-12-11 10:27:44

Below is generated by plot.py at 2017-12-11 12:05:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 172.09 Mbit/s

95th percentile per-packet one-way delay: 113.217 ms

Loss rate: 0.00%

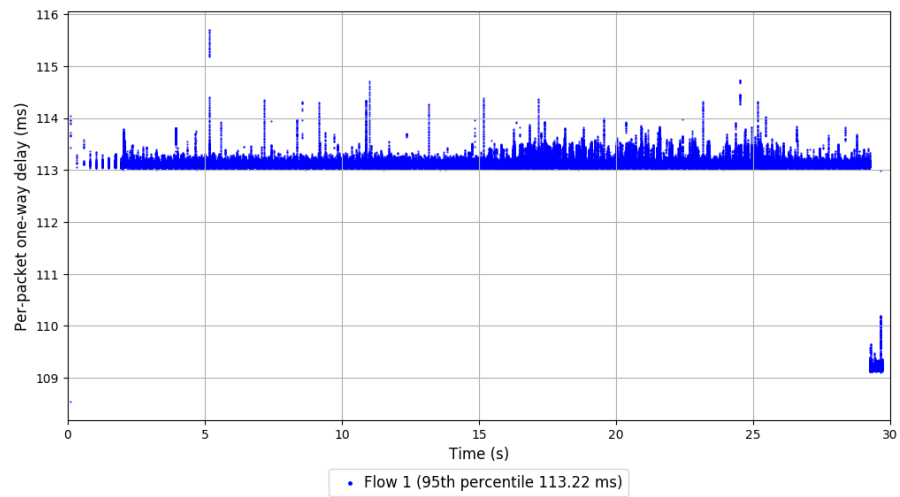
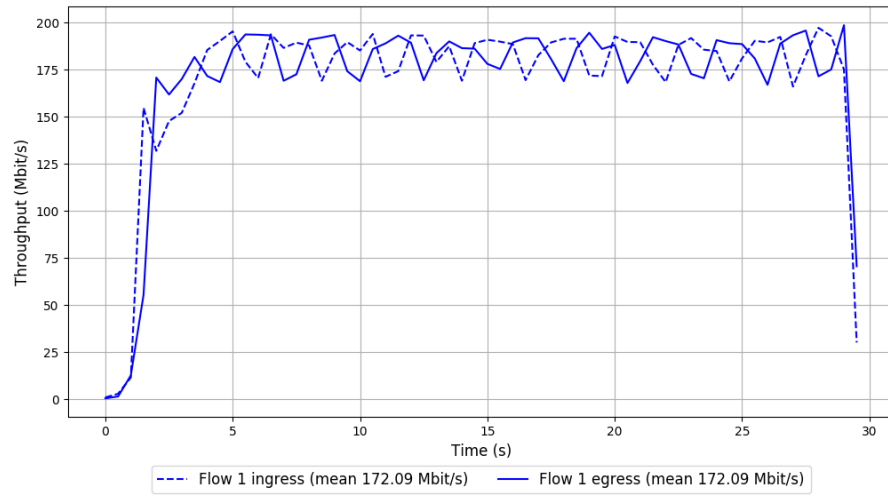
-- Flow 1:

Average throughput: 172.09 Mbit/s

95th percentile per-packet one-way delay: 113.217 ms

Loss rate: 0.00%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2017-12-11 10:38:18

End at: 2017-12-11 10:38:48

Below is generated by plot.py at 2017-12-11 12:05:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 169.37 Mbit/s

95th percentile per-packet one-way delay: 113.188 ms

Loss rate: 0.17%

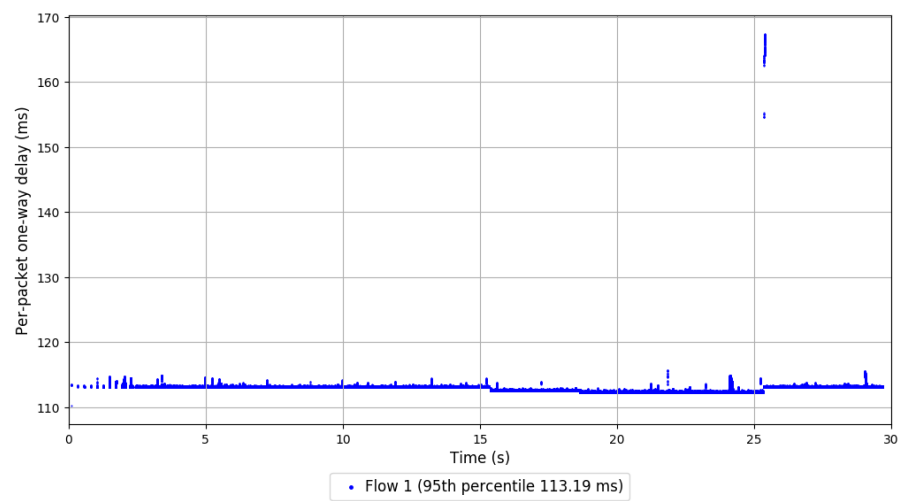
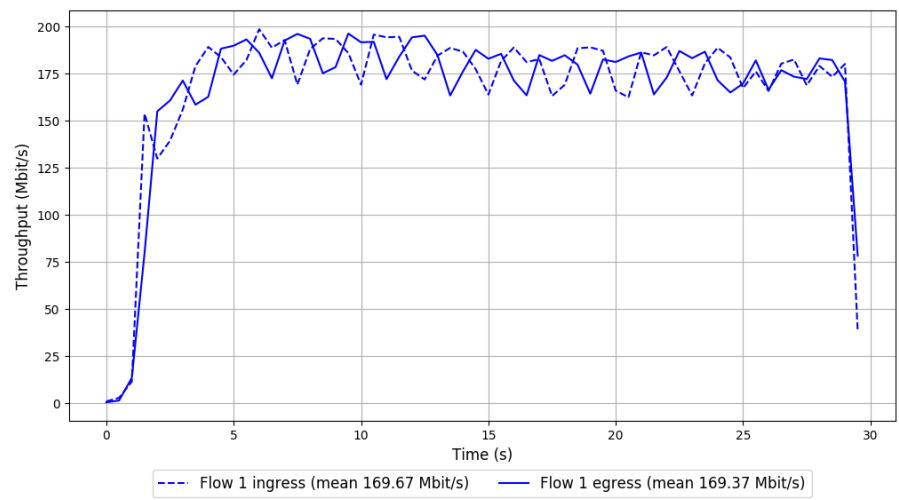
-- Flow 1:

Average throughput: 169.37 Mbit/s

95th percentile per-packet one-way delay: 113.188 ms

Loss rate: 0.17%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2017-12-11 10:48:59

End at: 2017-12-11 10:49:29

Below is generated by plot.py at 2017-12-11 12:06:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 173.06 Mbit/s

95th percentile per-packet one-way delay: 113.169 ms

Loss rate: 0.00%

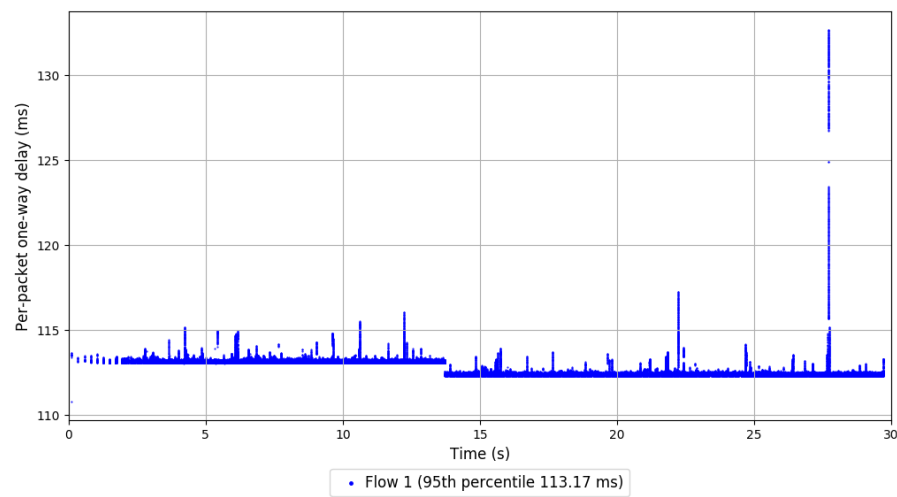
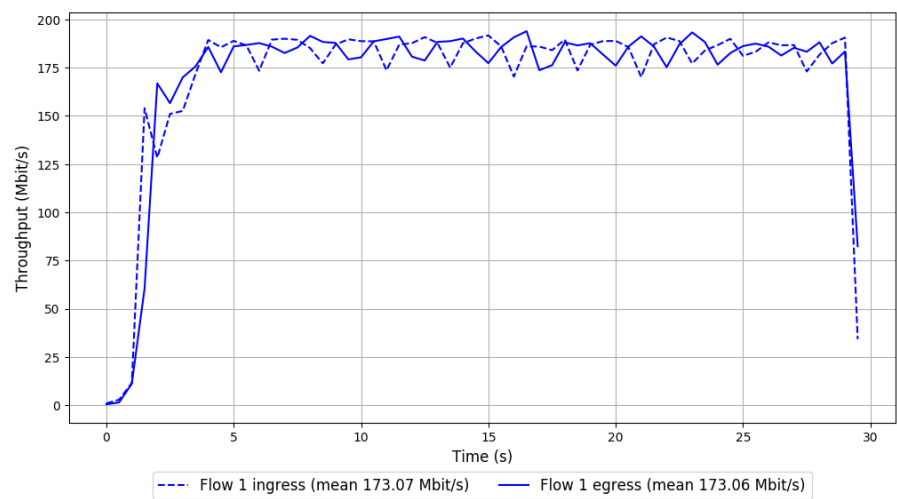
-- Flow 1:

Average throughput: 173.06 Mbit/s

95th percentile per-packet one-way delay: 113.169 ms

Loss rate: 0.00%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2017-12-11 10:59:50

End at: 2017-12-11 11:00:20

Below is generated by plot.py at 2017-12-11 12:06:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 170.93 Mbit/s

95th percentile per-packet one-way delay: 113.921 ms

Loss rate: 0.02%

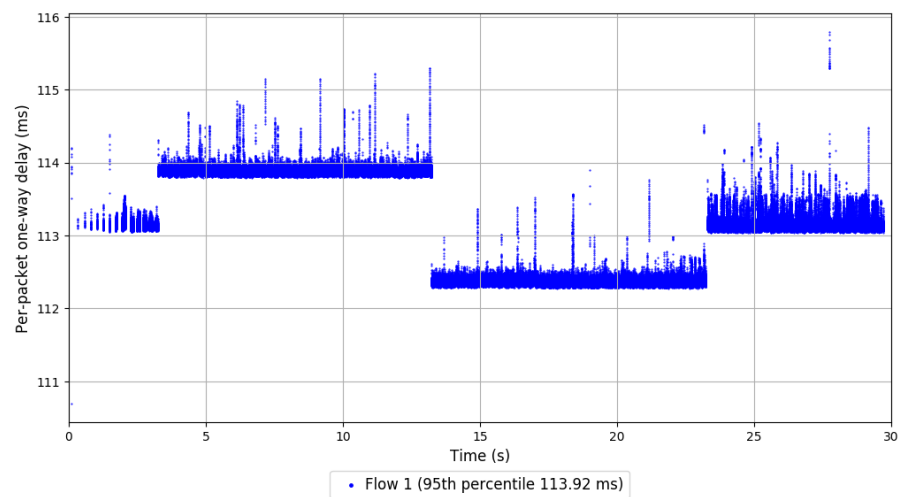
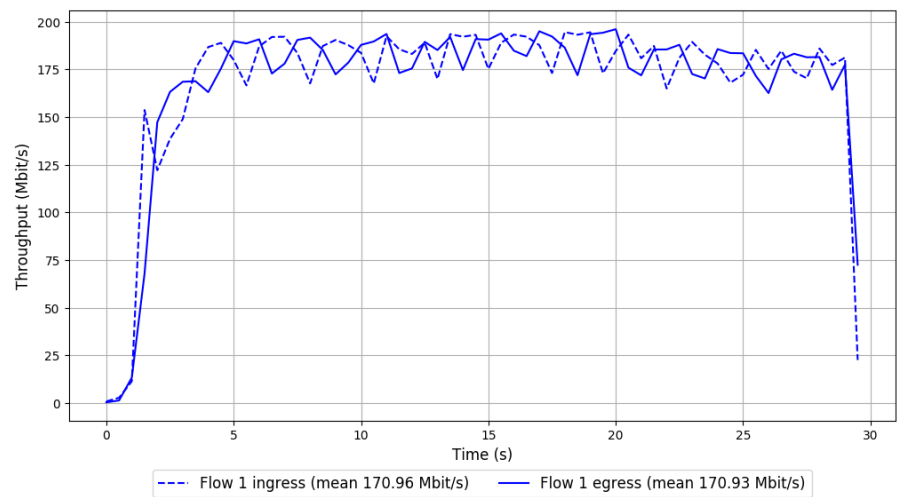
-- Flow 1:

Average throughput: 170.93 Mbit/s

95th percentile per-packet one-way delay: 113.921 ms

Loss rate: 0.02%

Run 10: Report of Indigo — Data Link

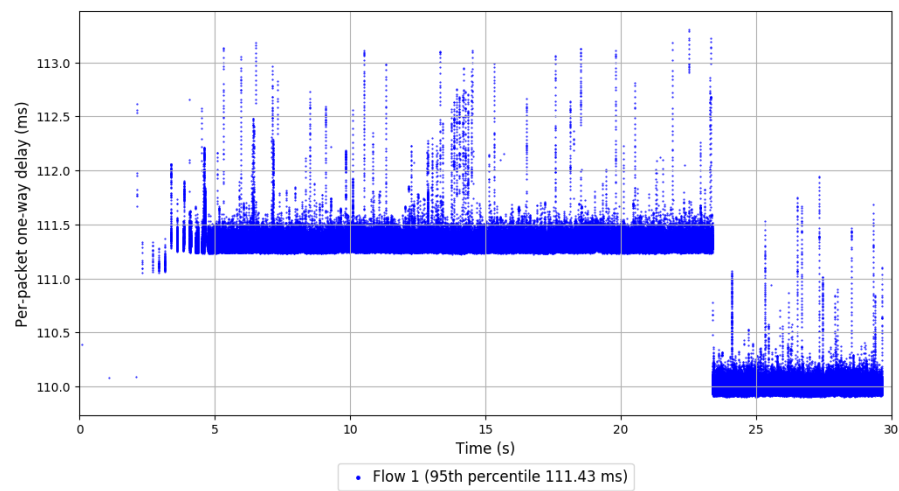
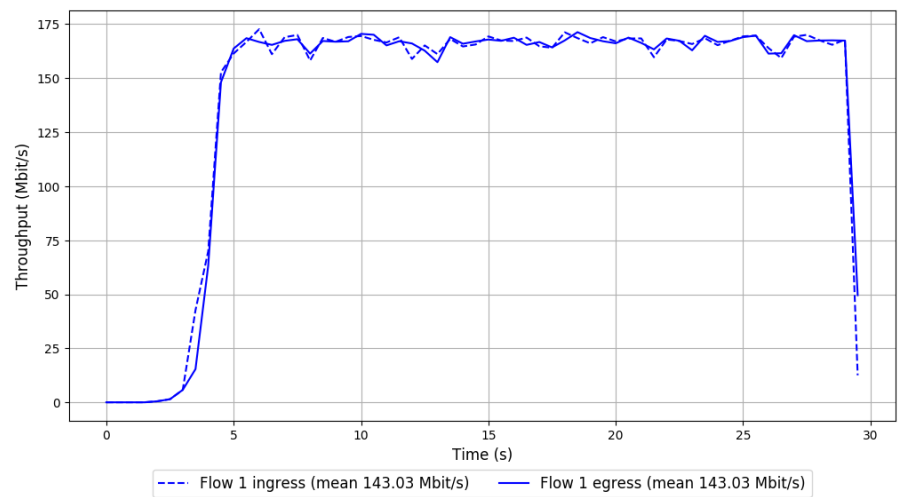


```
Run 1: Statistics of Indigo-calib

Start at: 2017-12-11 09:17:59
End at: 2017-12-11 09:18:29

# Below is generated by plot.py at 2017-12-11 12:06:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 143.03 Mbit/s
95th percentile per-packet one-way delay: 111.433 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 143.03 Mbit/s
95th percentile per-packet one-way delay: 111.433 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo-calib — Data Link

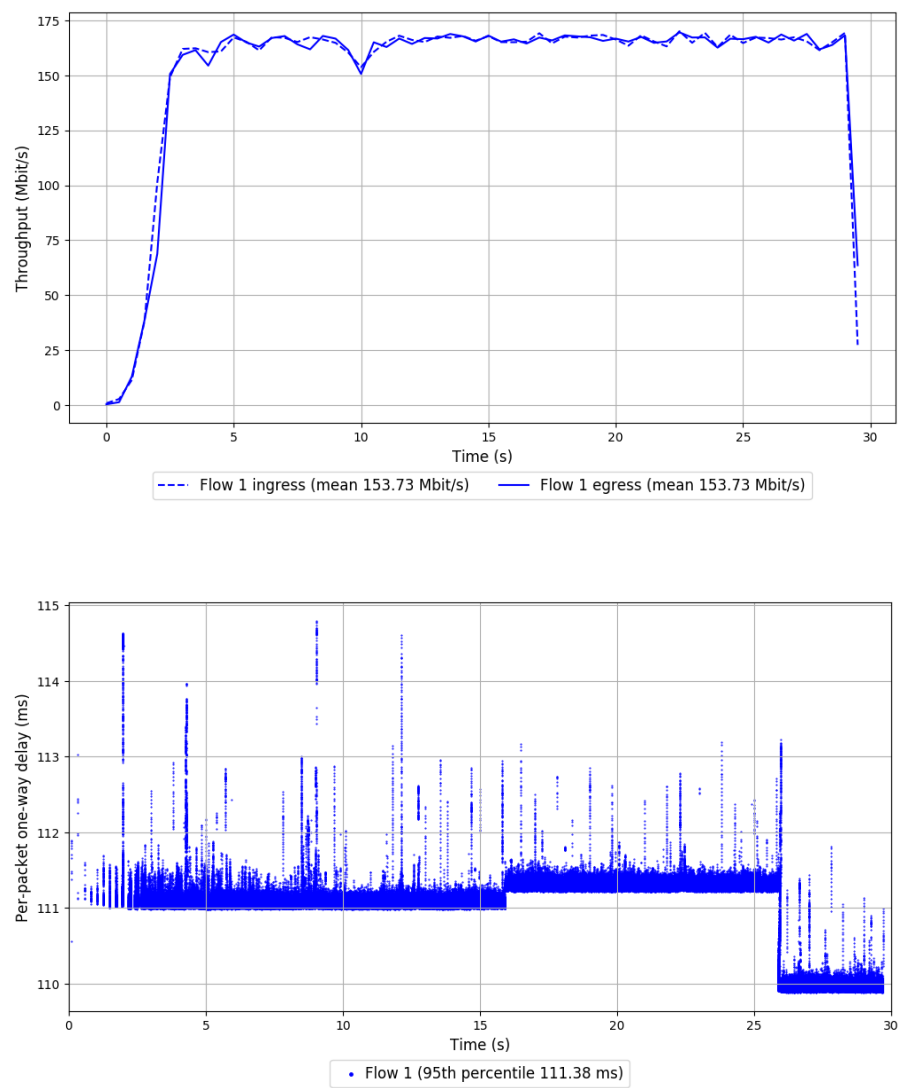


```
Run 2: Statistics of Indigo-calib

Start at: 2017-12-11 09:29:07
End at: 2017-12-11 09:29:37

# Below is generated by plot.py at 2017-12-11 12:06:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 153.73 Mbit/s
95th percentile per-packet one-way delay: 111.381 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 153.73 Mbit/s
95th percentile per-packet one-way delay: 111.381 ms
Loss rate: 0.00%
```

Run 2: Report of Indigo-calib — Data Link



Run 3: Statistics of Indigo-calib

Start at: 2017-12-11 09:40:12

End at: 2017-12-11 09:40:42

Below is generated by plot.py at 2017-12-11 12:07:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 154.49 Mbit/s

95th percentile per-packet one-way delay: 111.140 ms

Loss rate: 0.00%

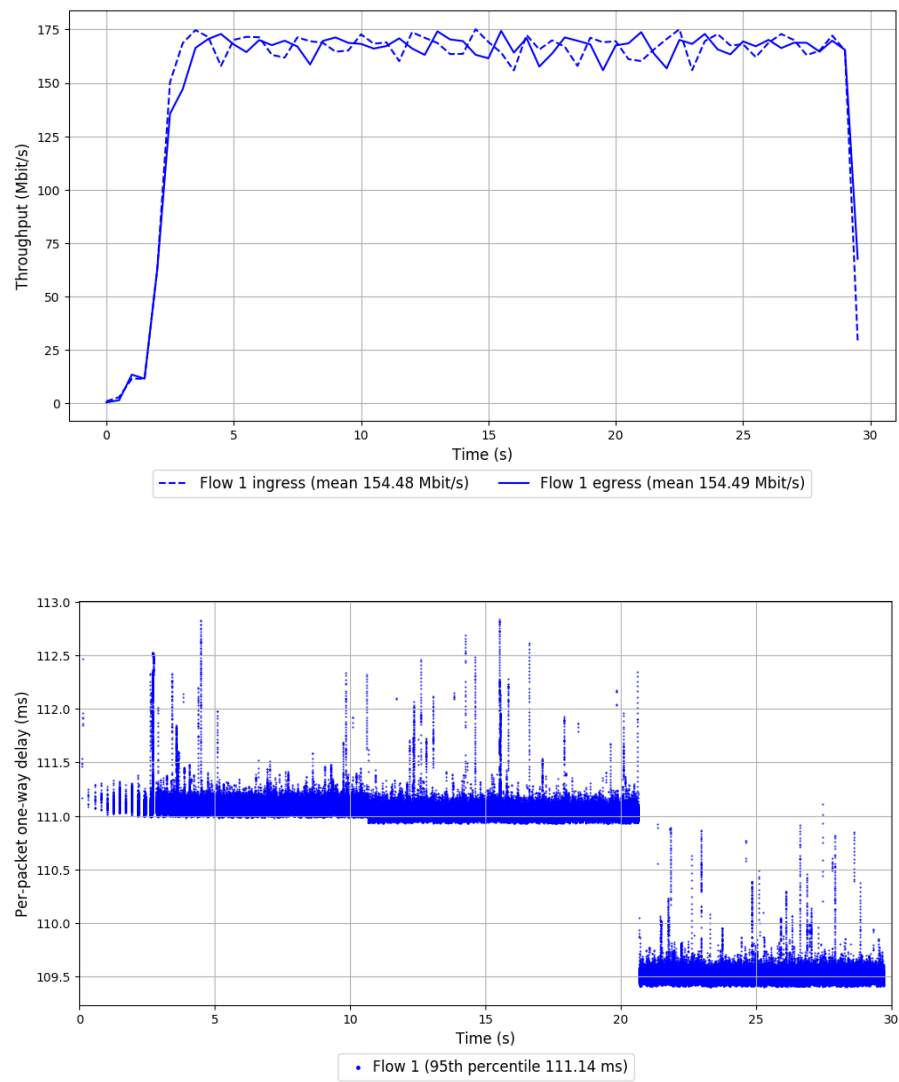
-- Flow 1:

Average throughput: 154.49 Mbit/s

95th percentile per-packet one-way delay: 111.140 ms

Loss rate: 0.00%

Run 3: Report of Indigo-calib — Data Link



Run 4: Statistics of Indigo-calib

Start at: 2017-12-11 09:51:12

End at: 2017-12-11 09:51:42

Below is generated by plot.py at 2017-12-11 12:08:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 155.45 Mbit/s

95th percentile per-packet one-way delay: 111.084 ms

Loss rate: 0.00%

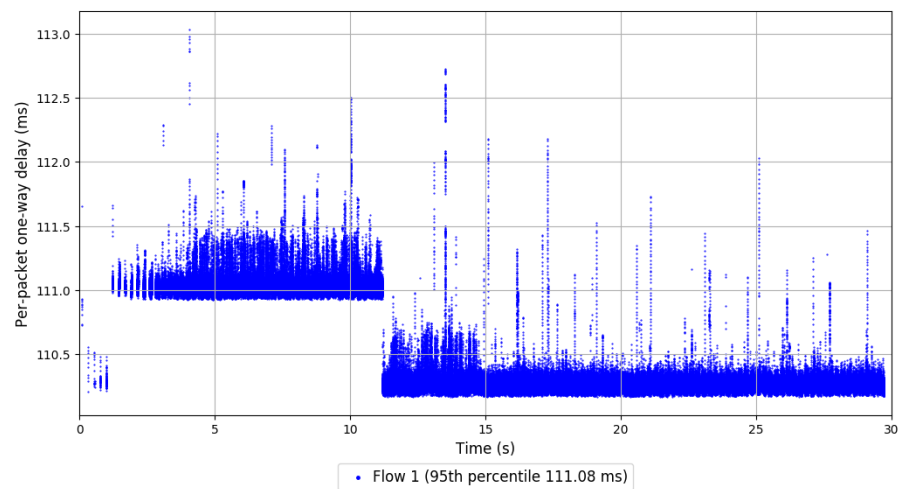
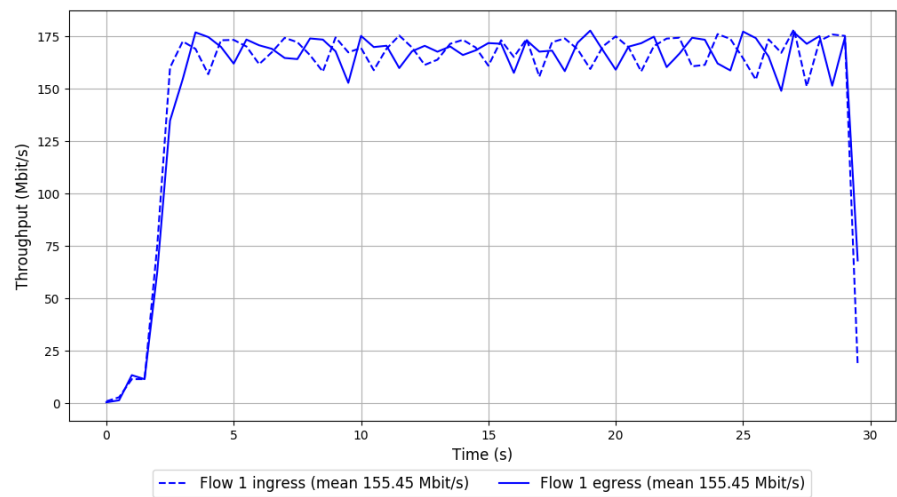
-- Flow 1:

Average throughput: 155.45 Mbit/s

95th percentile per-packet one-way delay: 111.084 ms

Loss rate: 0.00%

Run 4: Report of Indigo-calib — Data Link



Run 5: Statistics of Indigo-calib

Start at: 2017-12-11 10:02:05

End at: 2017-12-11 10:02:35

Below is generated by plot.py at 2017-12-11 12:08:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 153.66 Mbit/s

95th percentile per-packet one-way delay: 110.310 ms

Loss rate: 0.00%

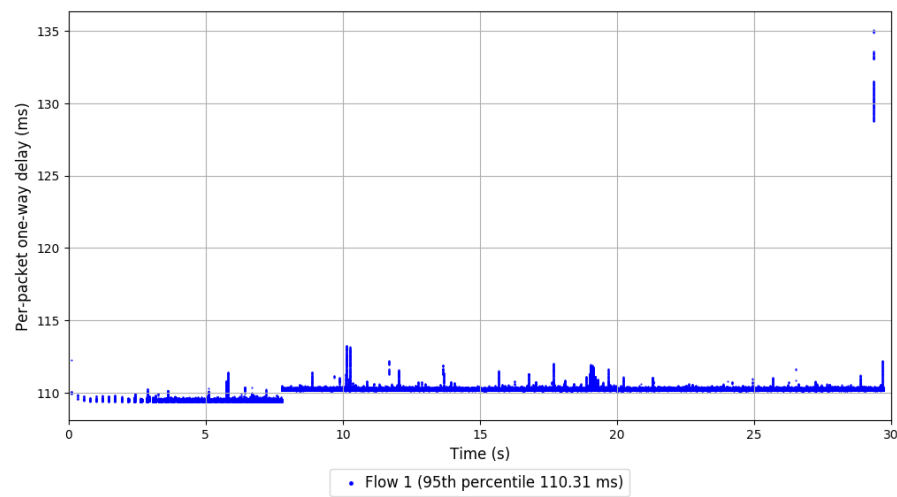
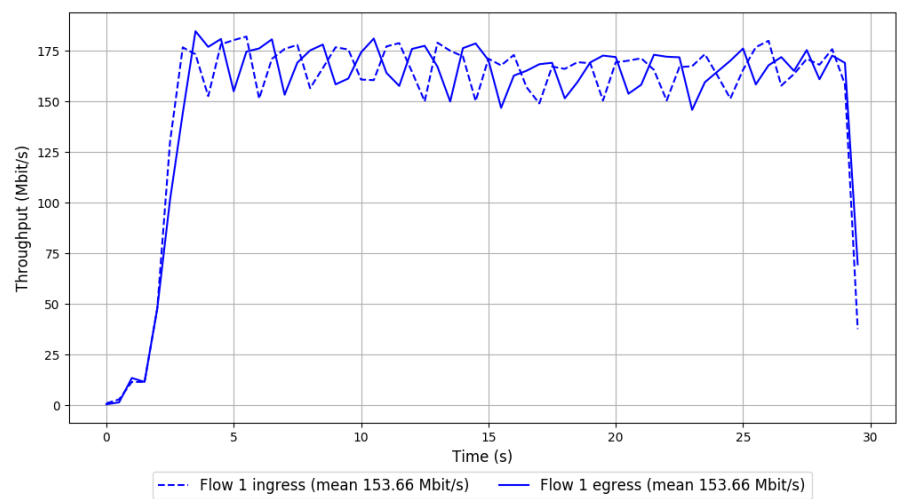
-- Flow 1:

Average throughput: 153.66 Mbit/s

95th percentile per-packet one-way delay: 110.310 ms

Loss rate: 0.00%

Run 5: Report of Indigo-calib — Data Link



Run 6: Statistics of Indigo-calib

Start at: 2017-12-11 10:13:14

End at: 2017-12-11 10:13:44

Below is generated by plot.py at 2017-12-11 12:08:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 154.74 Mbit/s

95th percentile per-packet one-way delay: 110.352 ms

Loss rate: 0.00%

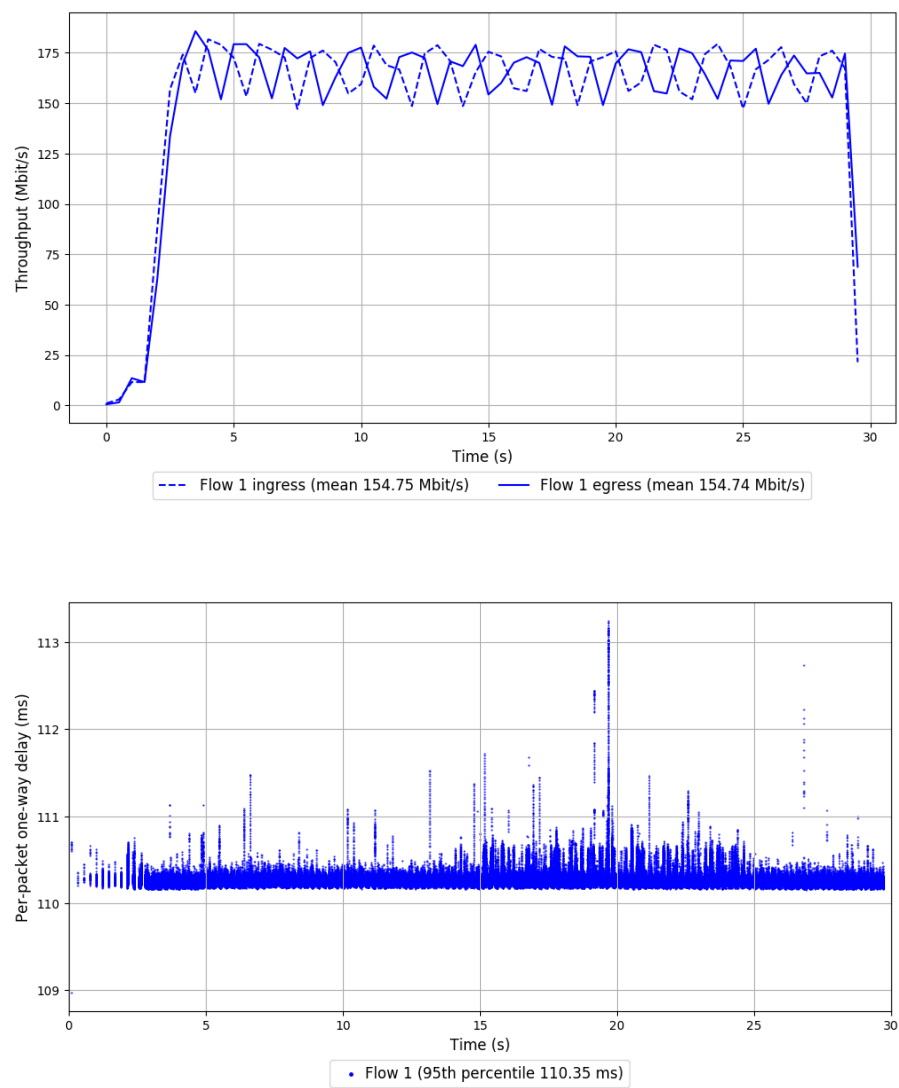
-- Flow 1:

Average throughput: 154.74 Mbit/s

95th percentile per-packet one-way delay: 110.352 ms

Loss rate: 0.00%

Run 6: Report of Indigo-calib — Data Link



Run 7: Statistics of Indigo-calib

Start at: 2017-12-11 10:24:11

End at: 2017-12-11 10:24:41

Below is generated by plot.py at 2017-12-11 12:08:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 155.76 Mbit/s

95th percentile per-packet one-way delay: 112.609 ms

Loss rate: 0.00%

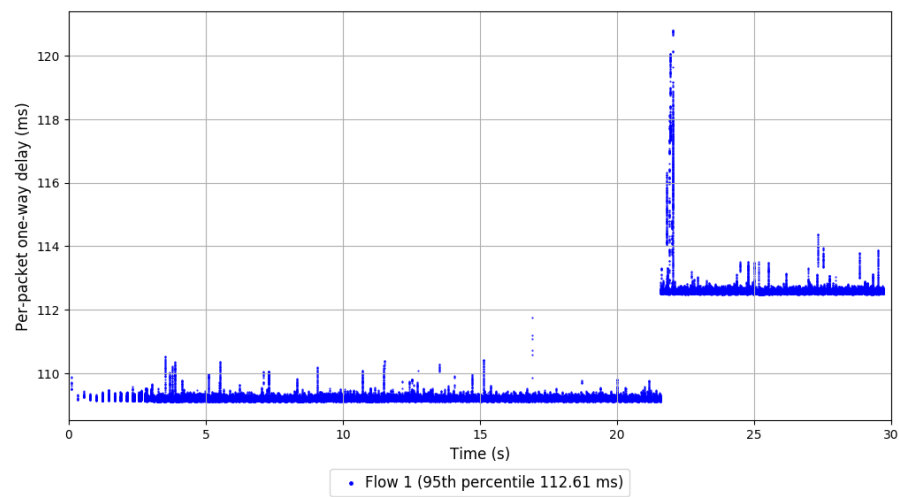
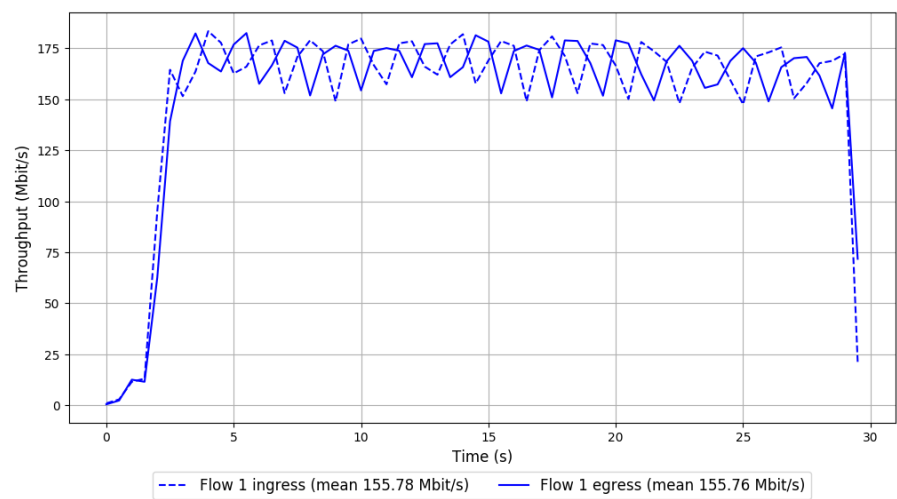
-- Flow 1:

Average throughput: 155.76 Mbit/s

95th percentile per-packet one-way delay: 112.609 ms

Loss rate: 0.00%

Run 7: Report of Indigo-calib — Data Link



Run 8: Statistics of Indigo-calib

Start at: 2017-12-11 10:35:15

End at: 2017-12-11 10:35:45

Below is generated by plot.py at 2017-12-11 12:08:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 154.77 Mbit/s

95th percentile per-packet one-way delay: 113.174 ms

Loss rate: 0.00%

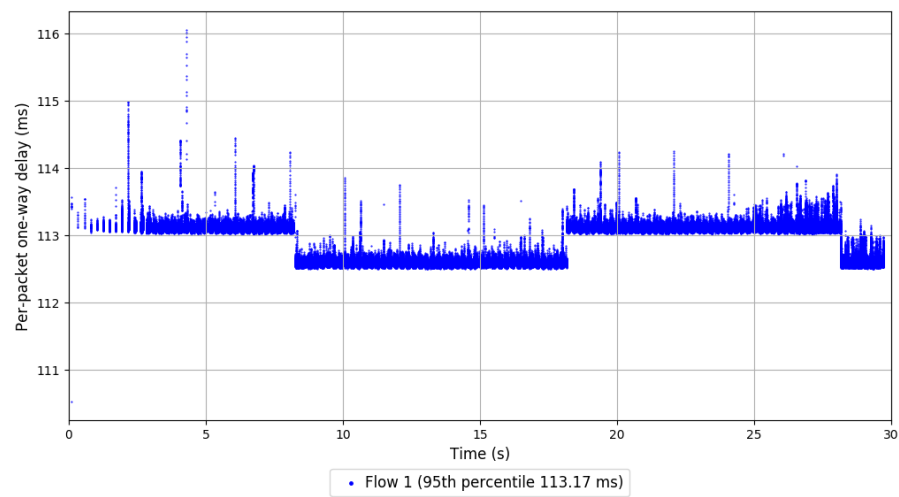
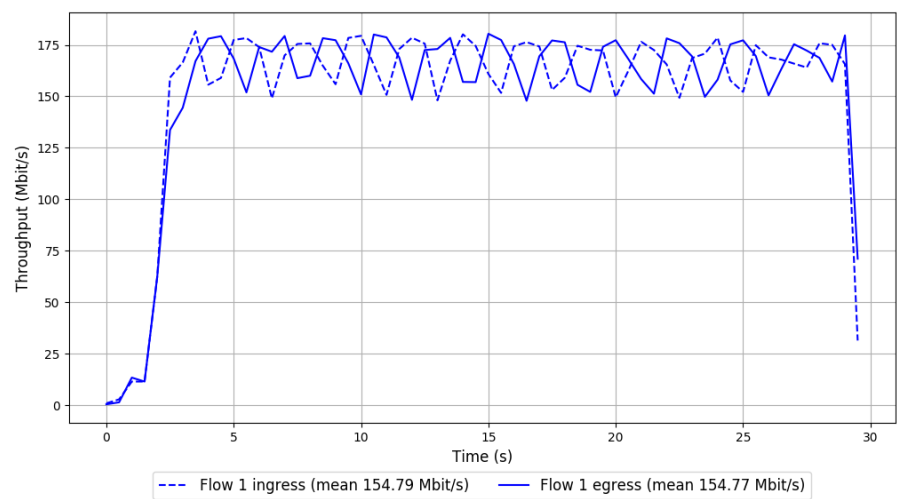
-- Flow 1:

Average throughput: 154.77 Mbit/s

95th percentile per-packet one-way delay: 113.174 ms

Loss rate: 0.00%

Run 8: Report of Indigo-calib — Data Link



Run 9: Statistics of Indigo-calib

Start at: 2017-12-11 10:46:01

End at: 2017-12-11 10:46:31

Below is generated by plot.py at 2017-12-11 12:08:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 153.23 Mbit/s

95th percentile per-packet one-way delay: 113.976 ms

Loss rate: 0.02%

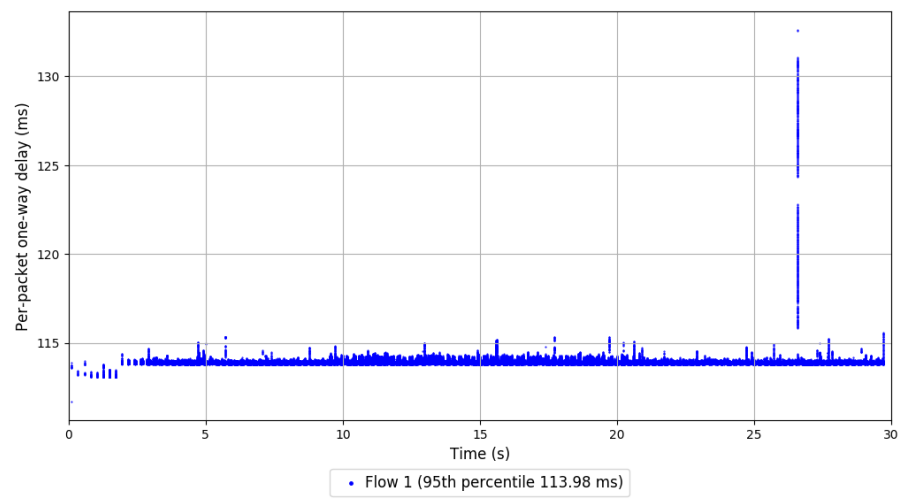
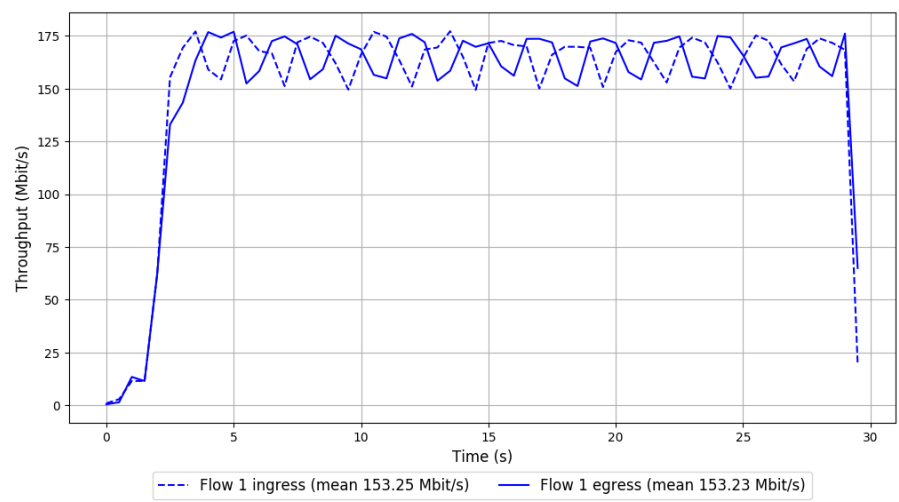
-- Flow 1:

Average throughput: 153.23 Mbit/s

95th percentile per-packet one-way delay: 113.976 ms

Loss rate: 0.02%

Run 9: Report of Indigo-calib — Data Link



Run 10: Statistics of Indigo-calib

Start at: 2017-12-11 10:56:48

End at: 2017-12-11 10:57:18

Below is generated by plot.py at 2017-12-11 12:08:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 154.39 Mbit/s

95th percentile per-packet one-way delay: 113.143 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 154.39 Mbit/s

95th percentile per-packet one-way delay: 113.143 ms

Loss rate: 0.00%

Run 10: Report of Indigo-calib — Data Link

