

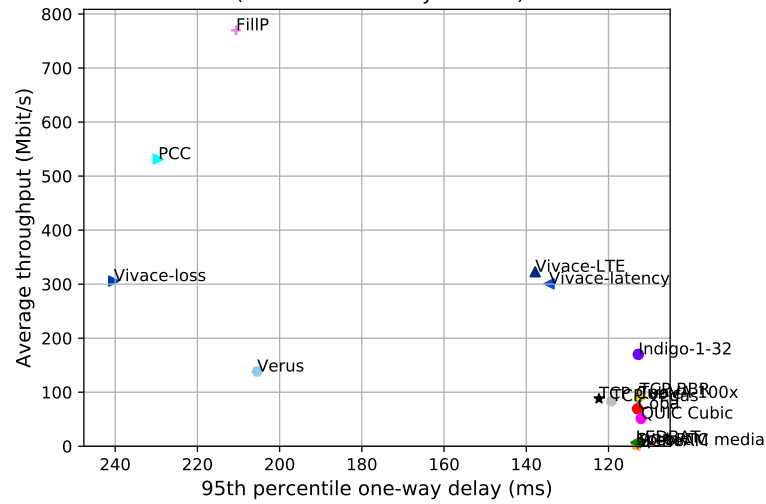
Pantheon Report

Generated at 2018-03-20 13:27:35 (UTC).
Data path: GCE London Ethernet (*local*) → GCE Tokyo Ethernet (*remote*).
Repeated the test of 17 congestion control schemes 10 times.
Each test lasted for 30 seconds running 1 flow.
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo_fast**).

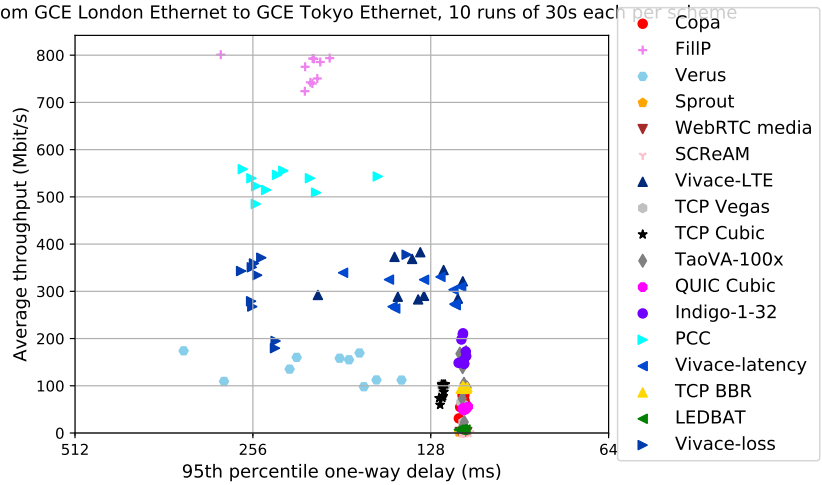
Git summary:

```
branch: master @ f12c42a2c63fdd9a862eefa0468859bf379b6623
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ 828bbf95fd4941149b5cec90f281d1c69ae1a5c6
third_party/genericCC @ 9249eea3238475c4d8cca1443d28df70bff6c4a2
third_party/indigo @ a9b2060d39e4da2e8987e893e3eca2a6c7cd0ab9
third_party/indigo-1-layer-128-unit @ 3ae9e4ef4230db7484501f82ce8b377695f2f66d
third_party/indigo-1-layer-32-unit @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/indigo-1-layer-32-unit-no-calib @ 1f3a7f75b41135ed5b540c0fd3505939528e2a5f
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ fb1053193c2861da659ba9013db26744ccfcf993
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaeab30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/vivace @ 7a4ba531e75b4a6f66f5c4580192120401784ce3
third_party/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

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



test from GCE London Ethernet to GCE Tokyo Ethernet, 10 runs of 30s each per scheme



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	95.43	112.45	0.00
TCP Cubic	10	88.00	122.31	0.01
LEDBAT	10	6.99	113.37	0.00
PCC	10	531.40	229.53	2.34
QUIC Cubic	9	51.24	112.09	0.00
SCReAM	10	0.20	112.39	0.00
WebRTC media	10	2.17	112.58	0.00
Sprout	10	2.41	113.23	0.00
TaoVA-100x	10	89.58	112.60	0.00
TCP Vegas	10	83.51	119.26	0.01
Verus	10	138.40	205.46	1.64
Copa	10	69.28	112.90	0.02
FillP	10	769.79	210.61	10.00
Indigo-1-32	10	170.01	112.75	0.00
Vivace-latency	10	300.70	134.47	0.24
Vivace-loss	10	305.69	240.35	2.13
Vivace-LTE	10	322.99	137.83	0.32

Run 1: Statistics of TCP BBR

Start at: 2018-03-20 08:34:46

End at: 2018-03-20 08:35:16

Below is generated by plot.py at 2018-03-20 12:17:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.70 Mbit/s

95th percentile per-packet one-way delay: 113.891 ms

Loss rate: 0.00%

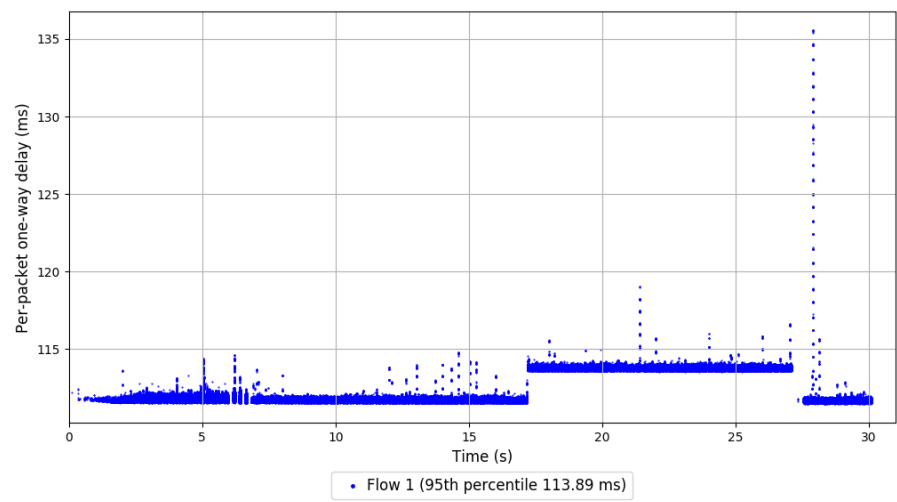
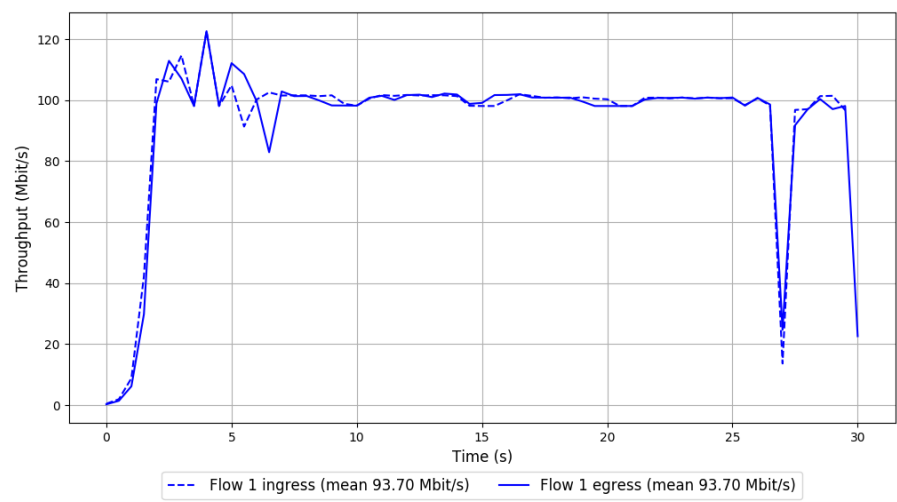
-- Flow 1:

Average throughput: 93.70 Mbit/s

95th percentile per-packet one-way delay: 113.891 ms

Loss rate: 0.00%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-03-20 08:50:02

End at: 2018-03-20 08:50:32

Below is generated by plot.py at 2018-03-20 12:17:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.92 Mbit/s

95th percentile per-packet one-way delay: 112.959 ms

Loss rate: 0.00%

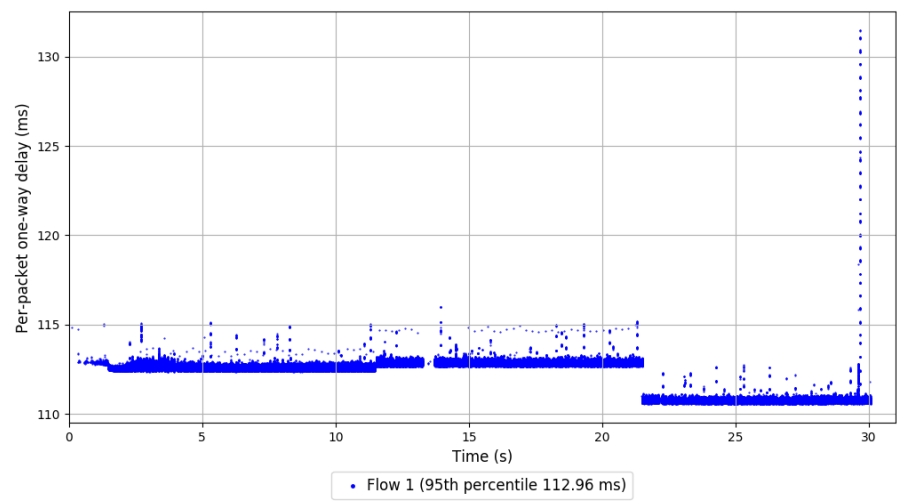
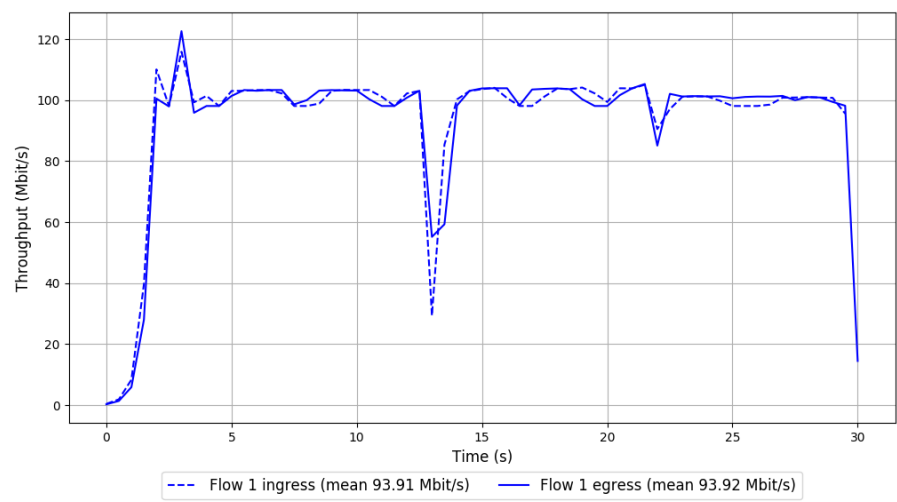
-- Flow 1:

Average throughput: 93.92 Mbit/s

95th percentile per-packet one-way delay: 112.959 ms

Loss rate: 0.00%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-03-20 09:05:16

End at: 2018-03-20 09:05:46

Below is generated by plot.py at 2018-03-20 12:17:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.73 Mbit/s

95th percentile per-packet one-way delay: 112.972 ms

Loss rate: 0.00%

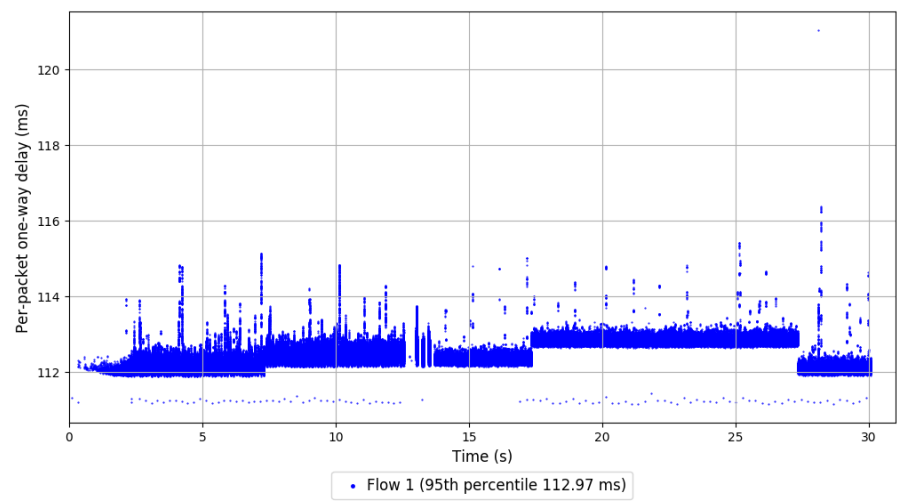
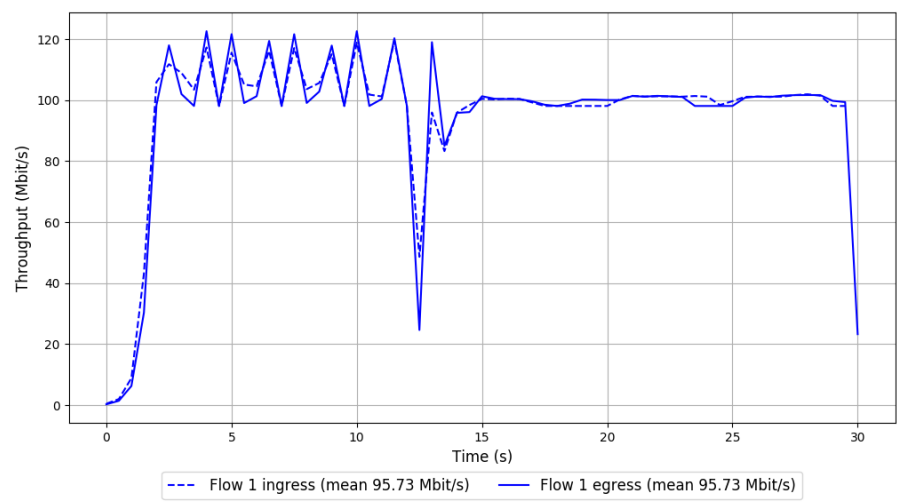
-- Flow 1:

Average throughput: 95.73 Mbit/s

95th percentile per-packet one-way delay: 112.972 ms

Loss rate: 0.00%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-03-20 09:20:29

End at: 2018-03-20 09:20:59

Below is generated by plot.py at 2018-03-20 12:17:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 99.48 Mbit/s

95th percentile per-packet one-way delay: 112.893 ms

Loss rate: 0.00%

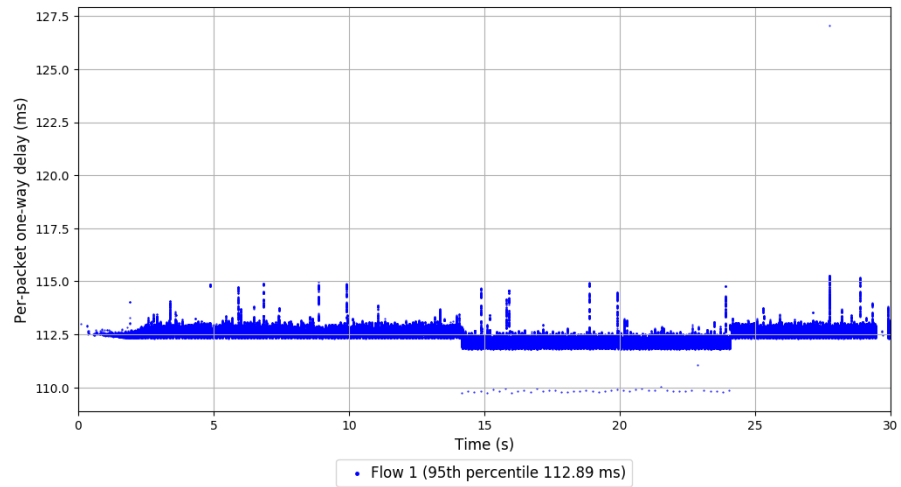
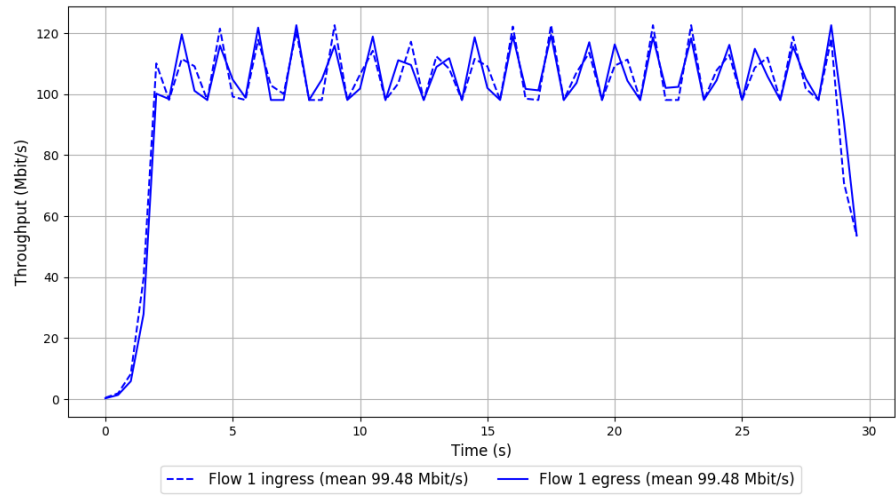
-- Flow 1:

Average throughput: 99.48 Mbit/s

95th percentile per-packet one-way delay: 112.893 ms

Loss rate: 0.00%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-03-20 09:36:05

End at: 2018-03-20 09:36:35

Below is generated by plot.py at 2018-03-20 12:17:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.81 Mbit/s

95th percentile per-packet one-way delay: 111.153 ms

Loss rate: 0.00%

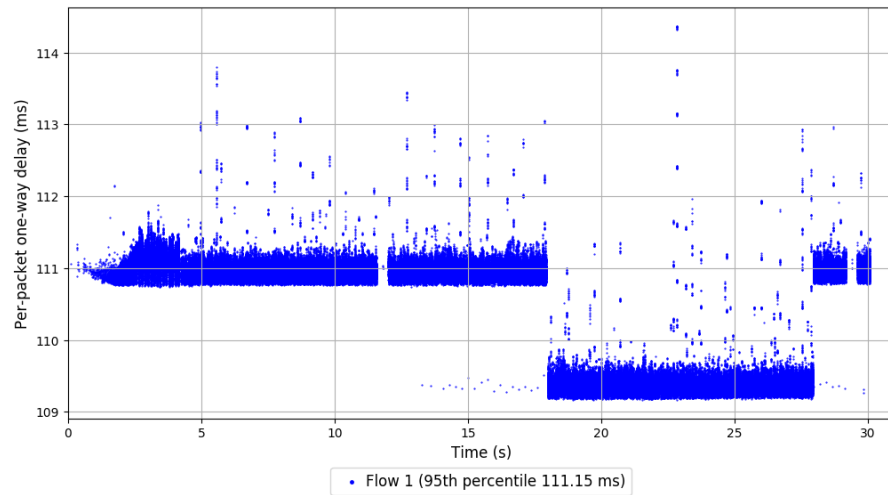
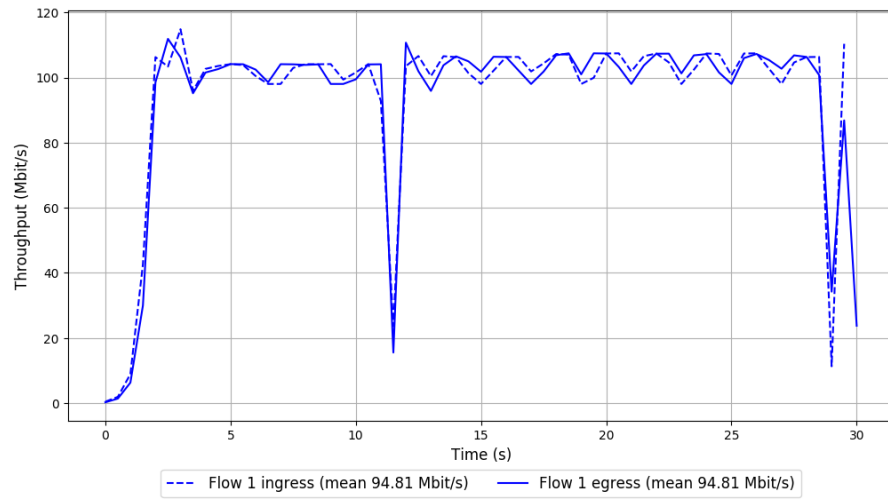
-- Flow 1:

Average throughput: 94.81 Mbit/s

95th percentile per-packet one-way delay: 111.153 ms

Loss rate: 0.00%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-03-20 09:51:47

End at: 2018-03-20 09:52:17

Below is generated by plot.py at 2018-03-20 12:17:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.67 Mbit/s

95th percentile per-packet one-way delay: 111.448 ms

Loss rate: 0.00%

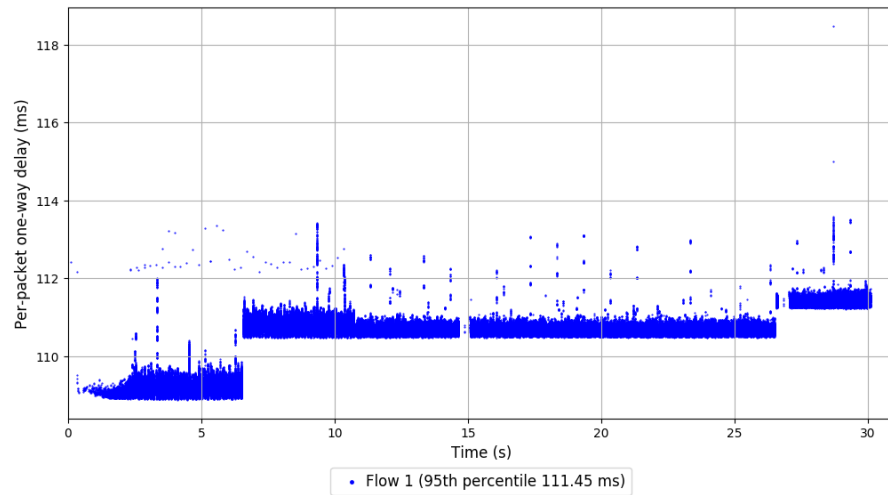
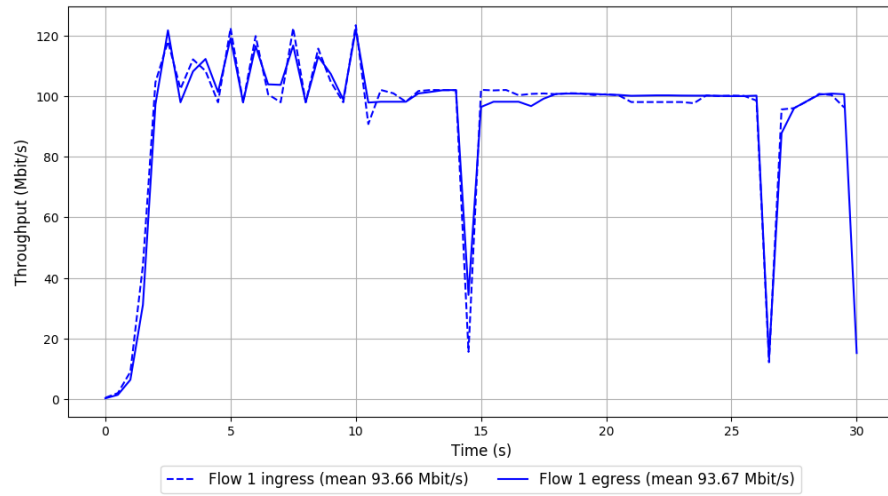
-- Flow 1:

Average throughput: 93.67 Mbit/s

95th percentile per-packet one-way delay: 111.448 ms

Loss rate: 0.00%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-03-20 10:07:13

End at: 2018-03-20 10:07:43

Below is generated by plot.py at 2018-03-20 12:17:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.38 Mbit/s

95th percentile per-packet one-way delay: 113.246 ms

Loss rate: 0.00%

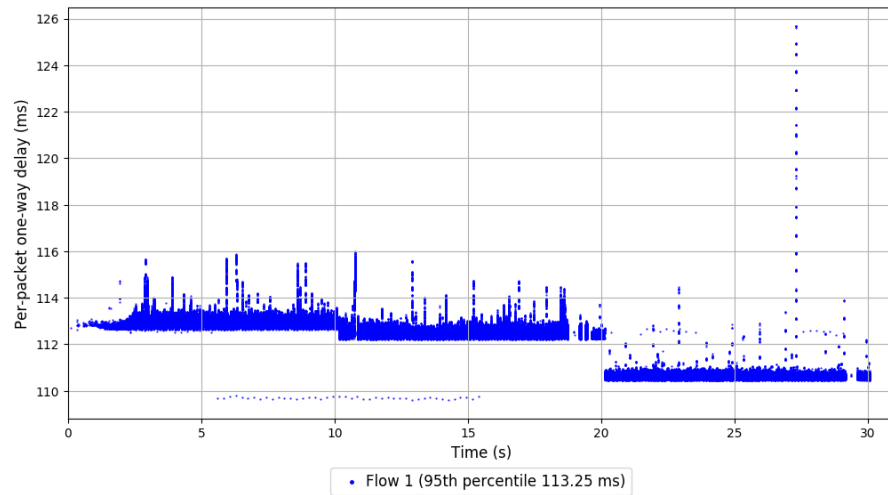
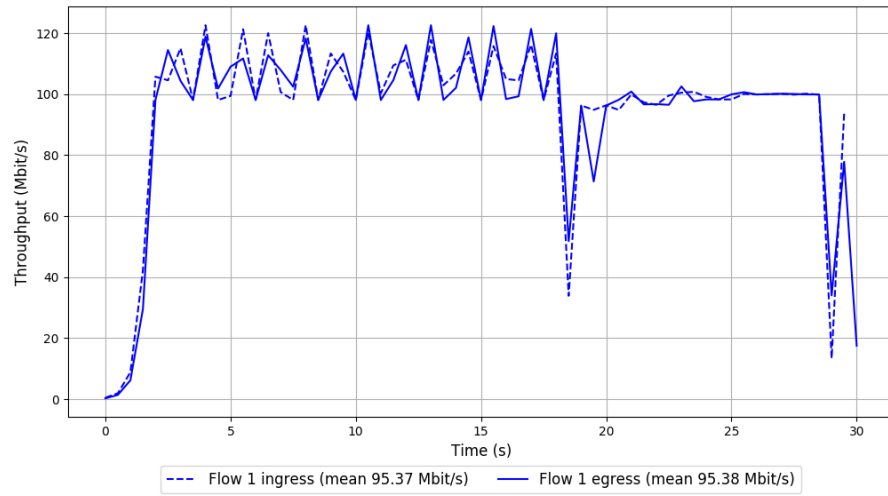
-- Flow 1:

Average throughput: 95.38 Mbit/s

95th percentile per-packet one-way delay: 113.246 ms

Loss rate: 0.00%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-03-20 10:22:18

End at: 2018-03-20 10:22:48

Below is generated by plot.py at 2018-03-20 12:17:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.20 Mbit/s

95th percentile per-packet one-way delay: 111.014 ms

Loss rate: 0.00%

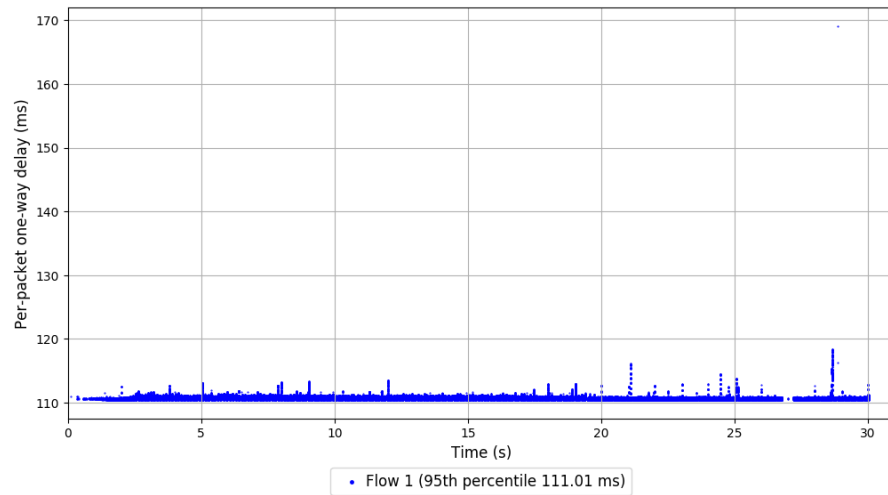
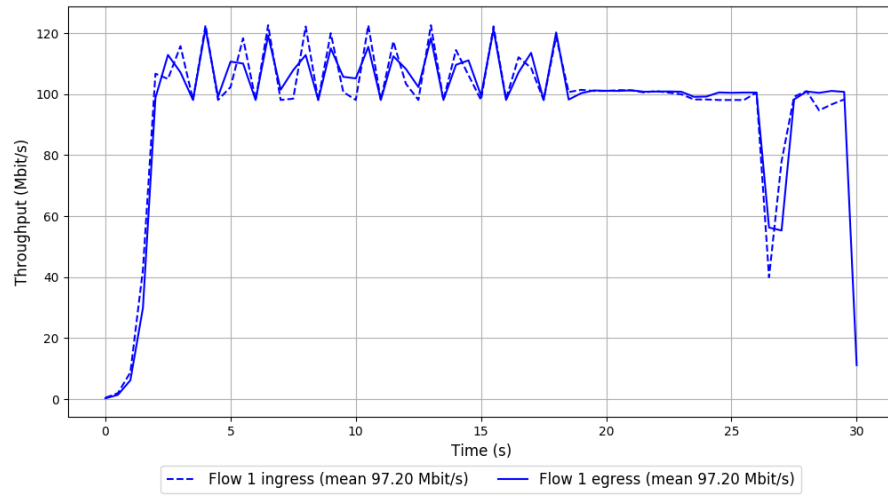
-- Flow 1:

Average throughput: 97.20 Mbit/s

95th percentile per-packet one-way delay: 111.014 ms

Loss rate: 0.00%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-03-20 10:37:53

End at: 2018-03-20 10:38:23

Below is generated by plot.py at 2018-03-20 12:19:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.56 Mbit/s

95th percentile per-packet one-way delay: 112.545 ms

Loss rate: 0.00%

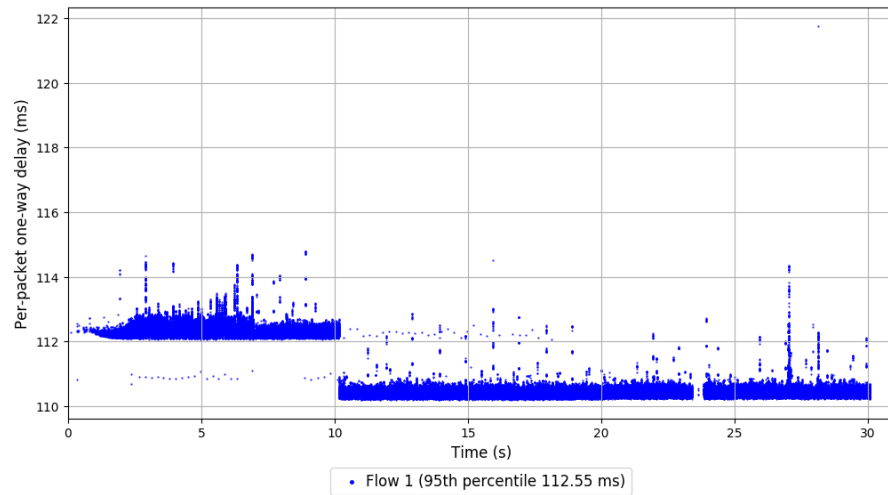
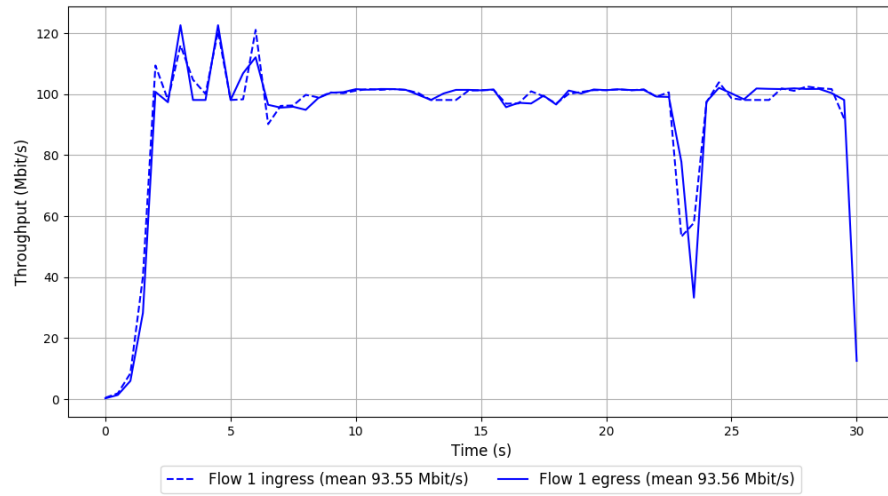
-- Flow 1:

Average throughput: 93.56 Mbit/s

95th percentile per-packet one-way delay: 112.545 ms

Loss rate: 0.00%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-03-20 10:53:24

End at: 2018-03-20 10:53:54

Below is generated by plot.py at 2018-03-20 12:19:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.81 Mbit/s

95th percentile per-packet one-way delay: 112.393 ms

Loss rate: 0.00%

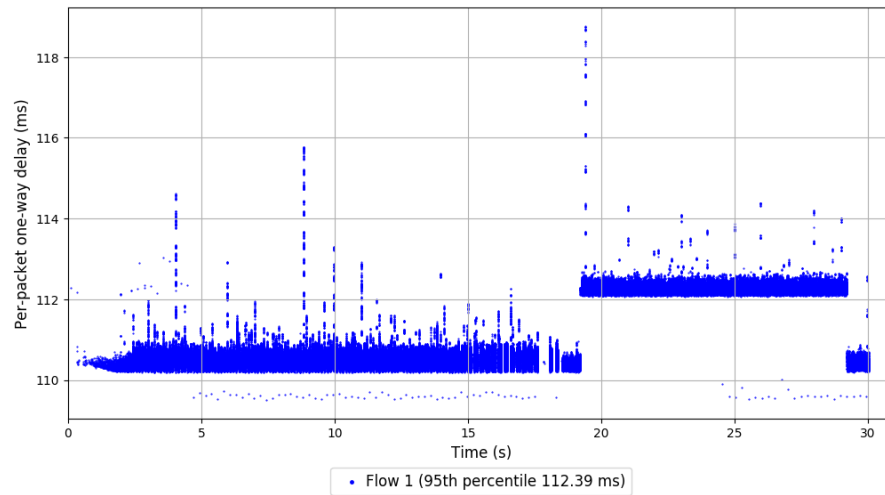
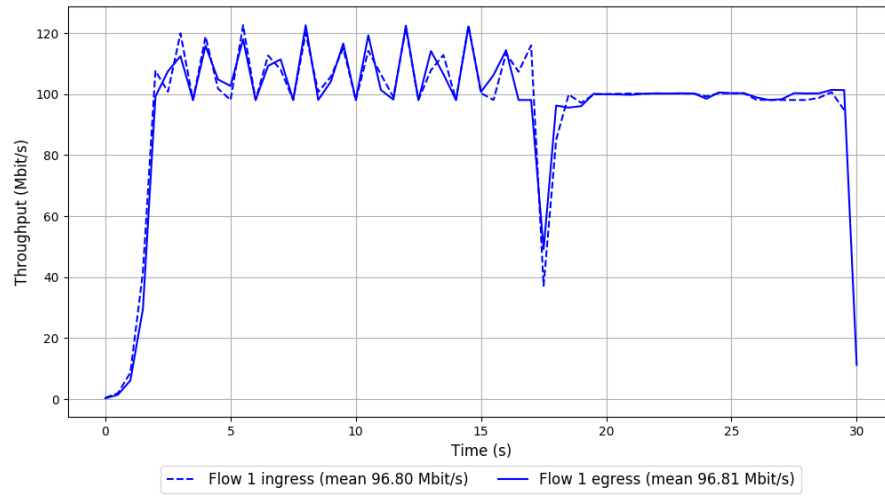
-- Flow 1:

Average throughput: 96.81 Mbit/s

95th percentile per-packet one-way delay: 112.393 ms

Loss rate: 0.00%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-03-20 08:22:48

End at: 2018-03-20 08:23:18

Below is generated by plot.py at 2018-03-20 12:19:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.93 Mbit/s

95th percentile per-packet one-way delay: 123.875 ms

Loss rate: 0.00%

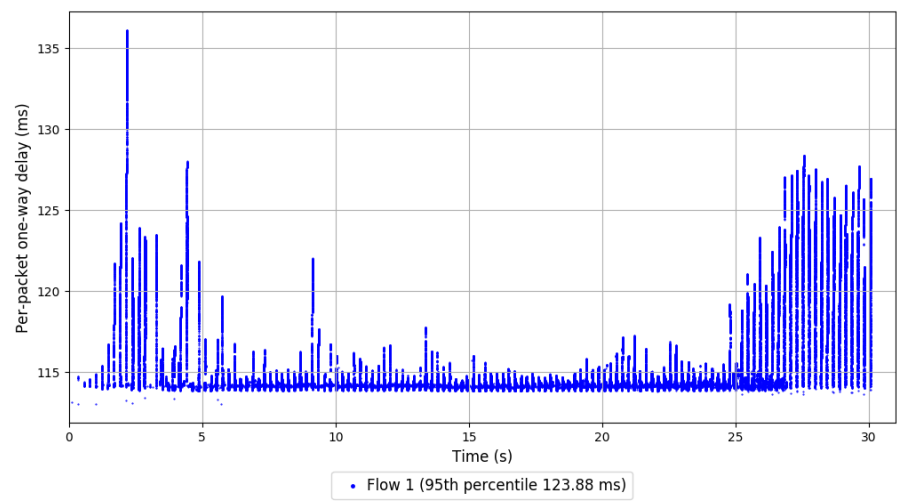
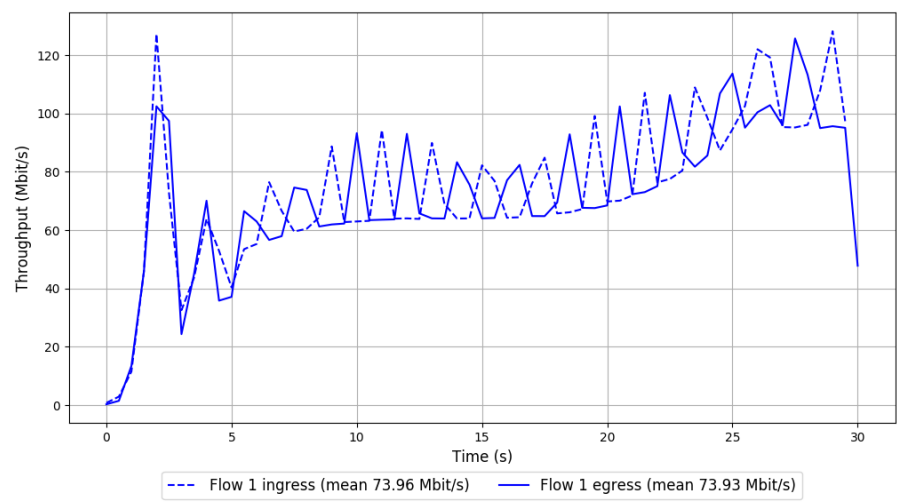
-- Flow 1:

Average throughput: 73.93 Mbit/s

95th percentile per-packet one-way delay: 123.875 ms

Loss rate: 0.00%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-03-20 08:38:22

End at: 2018-03-20 08:38:52

Below is generated by plot.py at 2018-03-20 12:19:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 59.68 Mbit/s

95th percentile per-packet one-way delay: 123.408 ms

Loss rate: 0.00%

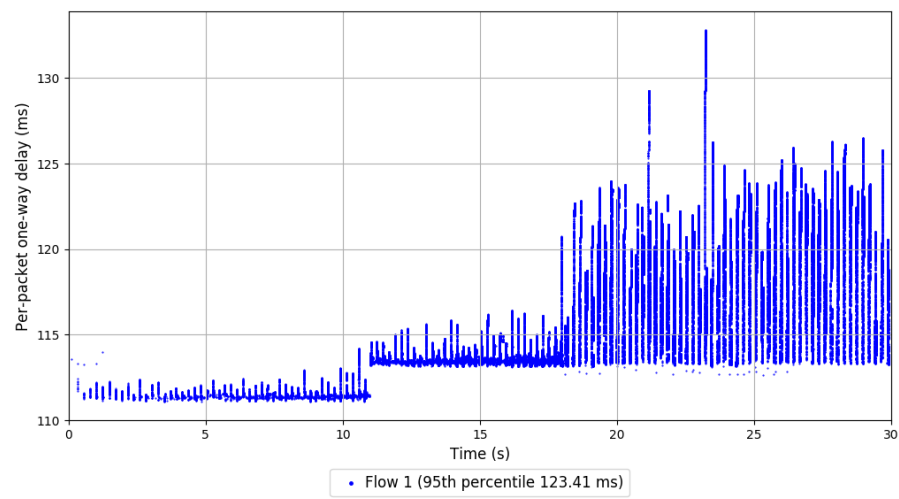
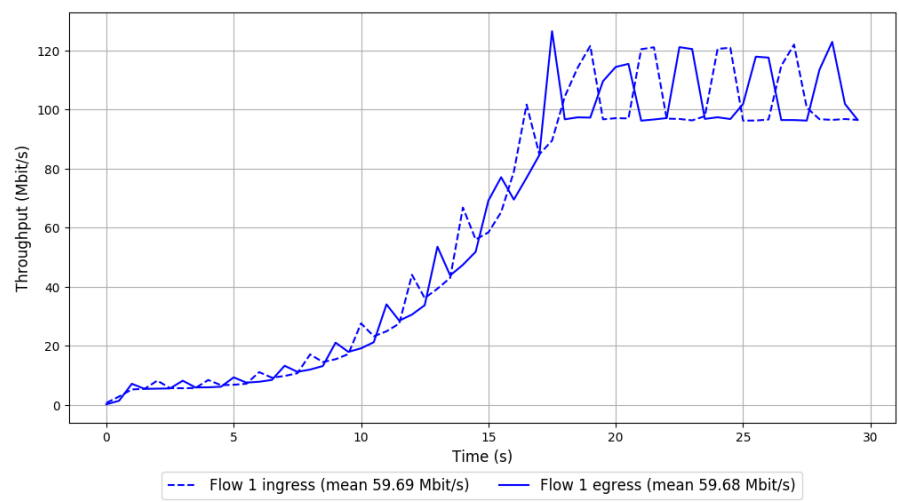
-- Flow 1:

Average throughput: 59.68 Mbit/s

95th percentile per-packet one-way delay: 123.408 ms

Loss rate: 0.00%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-03-20 08:53:34

End at: 2018-03-20 08:54:04

Below is generated by plot.py at 2018-03-20 12:19:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.44 Mbit/s

95th percentile per-packet one-way delay: 122.343 ms

Loss rate: 0.08%

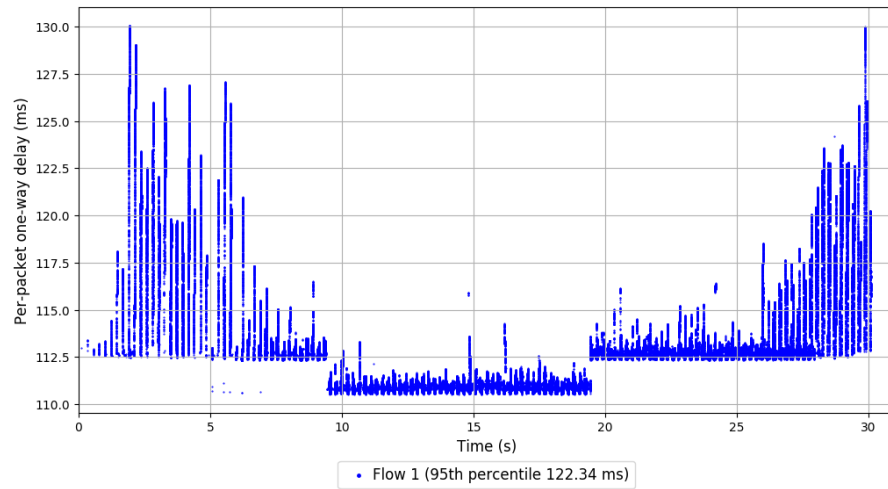
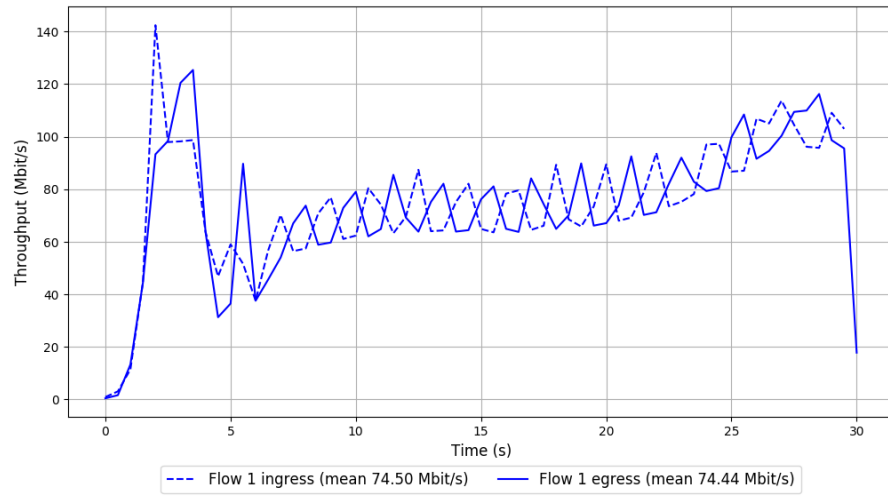
-- Flow 1:

Average throughput: 74.44 Mbit/s

95th percentile per-packet one-way delay: 122.343 ms

Loss rate: 0.08%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-03-20 09:08:46

End at: 2018-03-20 09:09:16

Below is generated by plot.py at 2018-03-20 12:19:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.22 Mbit/s

95th percentile per-packet one-way delay: 121.971 ms

Loss rate: 0.00%

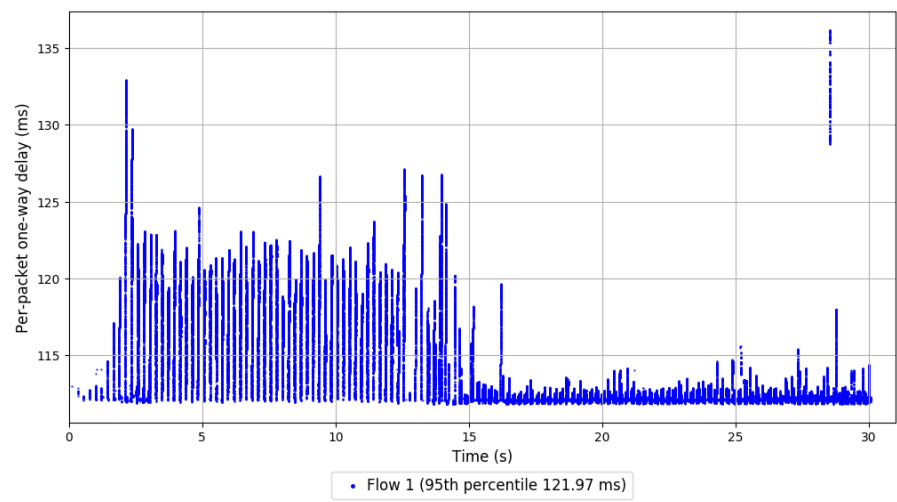
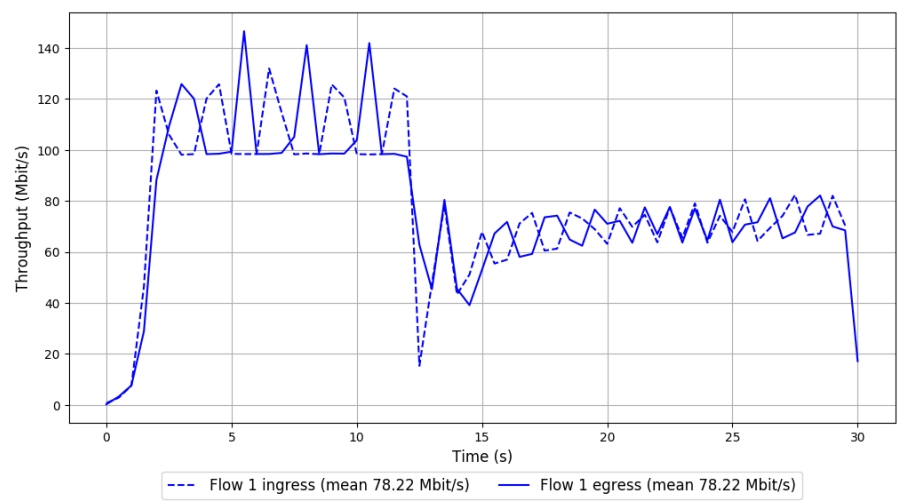
-- Flow 1:

Average throughput: 78.22 Mbit/s

95th percentile per-packet one-way delay: 121.971 ms

Loss rate: 0.00%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-03-20 09:24:01

End at: 2018-03-20 09:24:31

Below is generated by plot.py at 2018-03-20 12:19:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 101.74 Mbit/s

95th percentile per-packet one-way delay: 122.530 ms

Loss rate: 0.00%

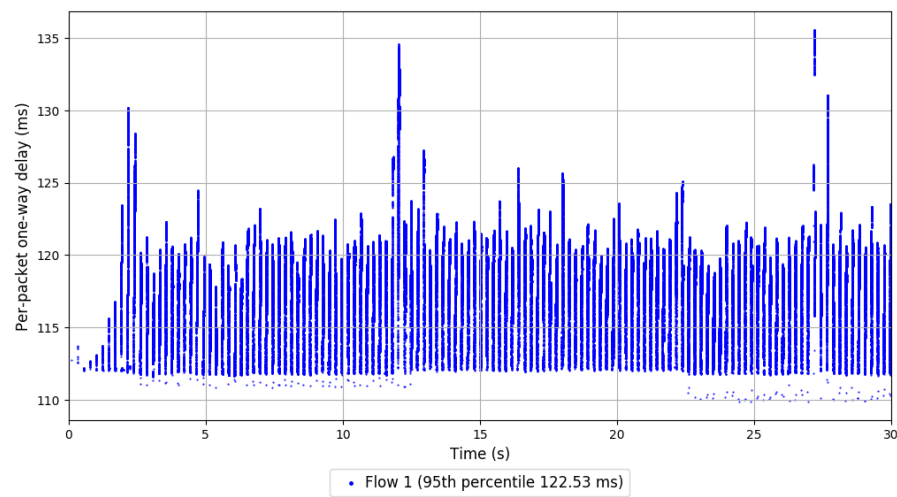
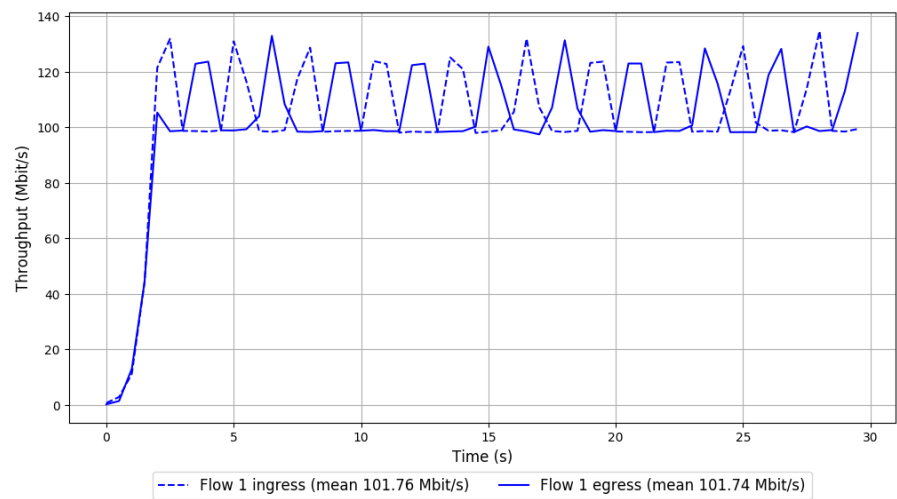
-- Flow 1:

Average throughput: 101.74 Mbit/s

95th percentile per-packet one-way delay: 122.530 ms

Loss rate: 0.00%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-03-20 09:39:41

End at: 2018-03-20 09:40:11

Below is generated by plot.py at 2018-03-20 12:19:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.85 Mbit/s

95th percentile per-packet one-way delay: 121.997 ms

Loss rate: 0.00%

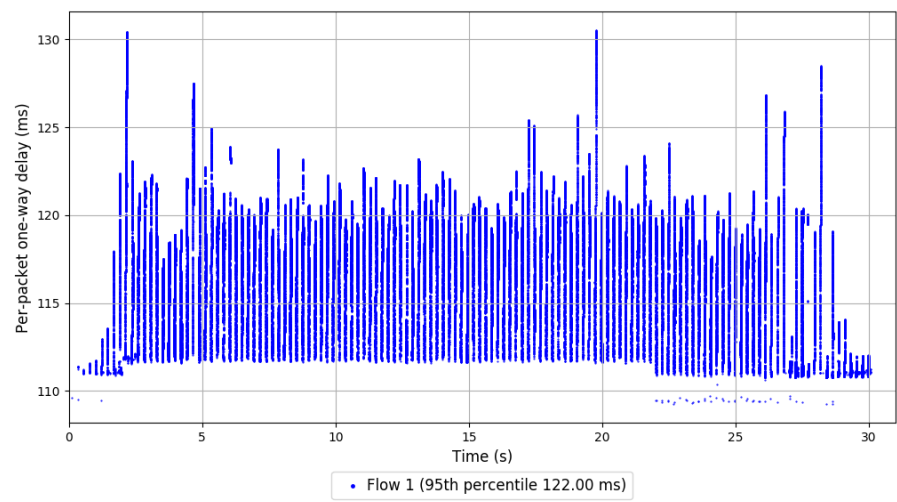
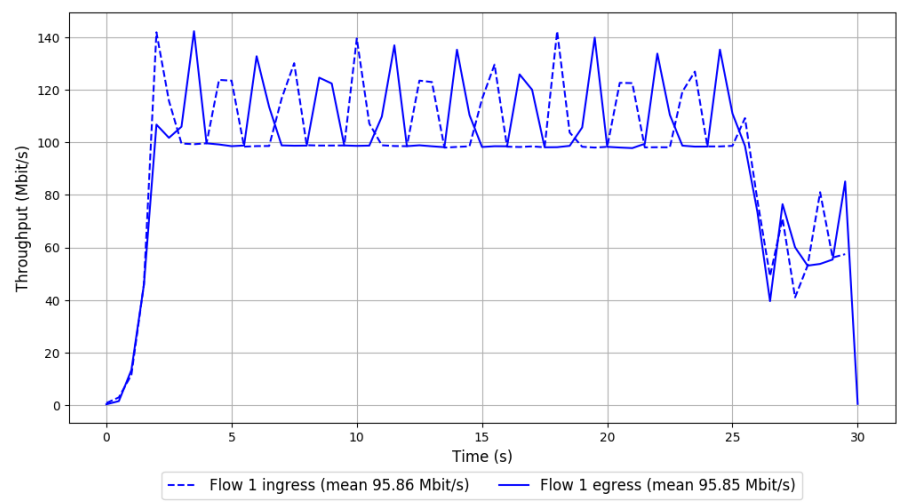
-- Flow 1:

Average throughput: 95.85 Mbit/s

95th percentile per-packet one-way delay: 121.997 ms

Loss rate: 0.00%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-03-20 09:55:17

End at: 2018-03-20 09:55:47

Below is generated by plot.py at 2018-03-20 12:20:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 103.13 Mbit/s

95th percentile per-packet one-way delay: 121.027 ms

Loss rate: 0.06%

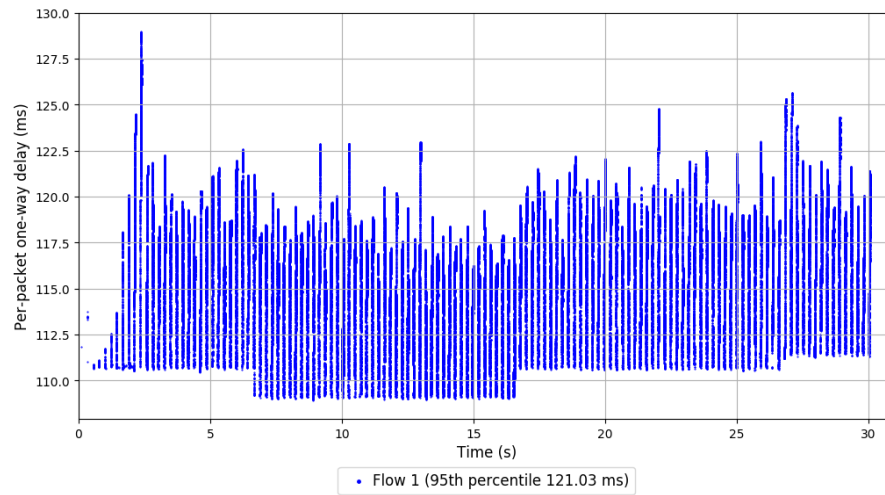
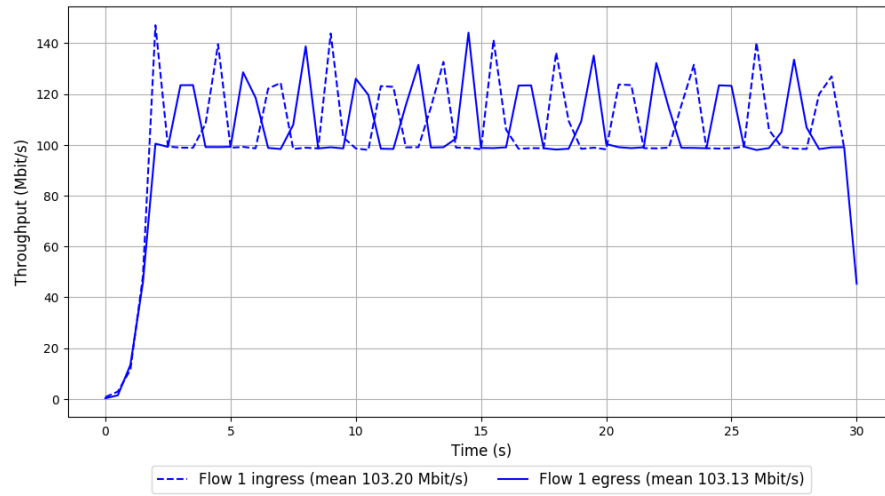
-- Flow 1:

Average throughput: 103.13 Mbit/s

95th percentile per-packet one-way delay: 121.027 ms

Loss rate: 0.06%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-03-20 10:10:41

End at: 2018-03-20 10:11:11

Below is generated by plot.py at 2018-03-20 12:20:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.20 Mbit/s

95th percentile per-packet one-way delay: 121.612 ms

Loss rate: 0.00%

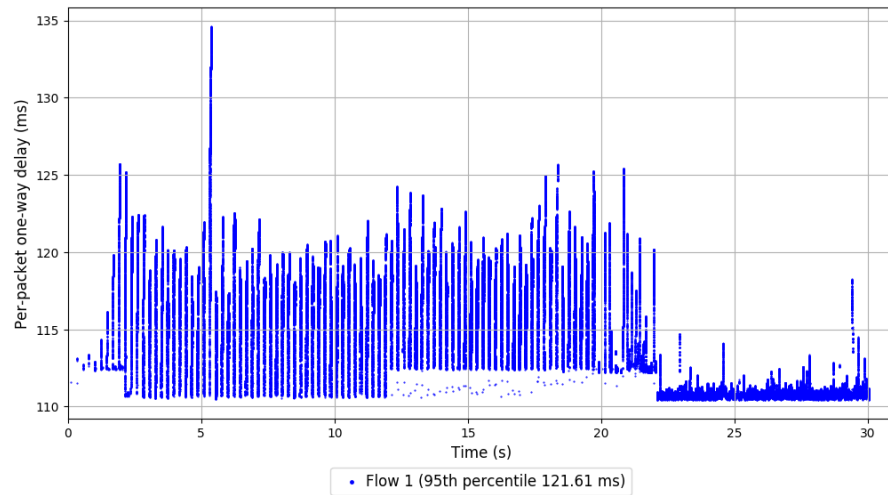
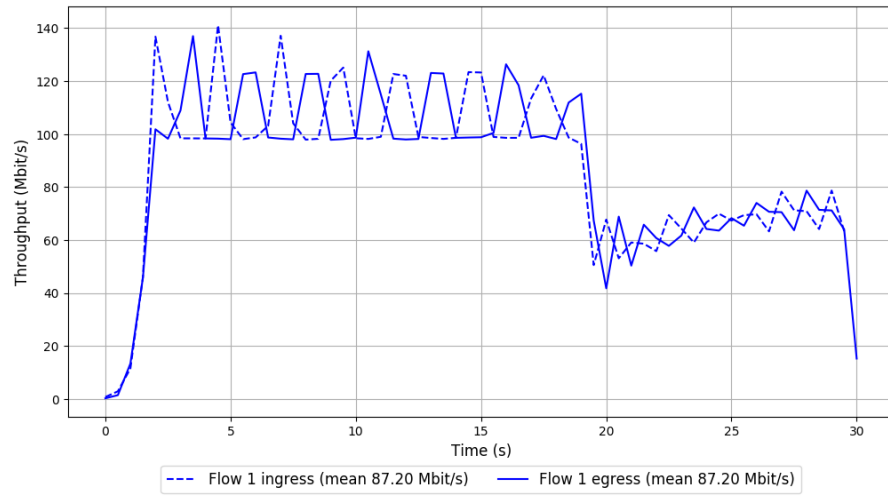
-- Flow 1:

Average throughput: 87.20 Mbit/s

95th percentile per-packet one-way delay: 121.612 ms

Loss rate: 0.00%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-03-20 10:25:54

End at: 2018-03-20 10:26:24

Below is generated by plot.py at 2018-03-20 12:20:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 102.75 Mbit/s

95th percentile per-packet one-way delay: 121.705 ms

Loss rate: 0.00%

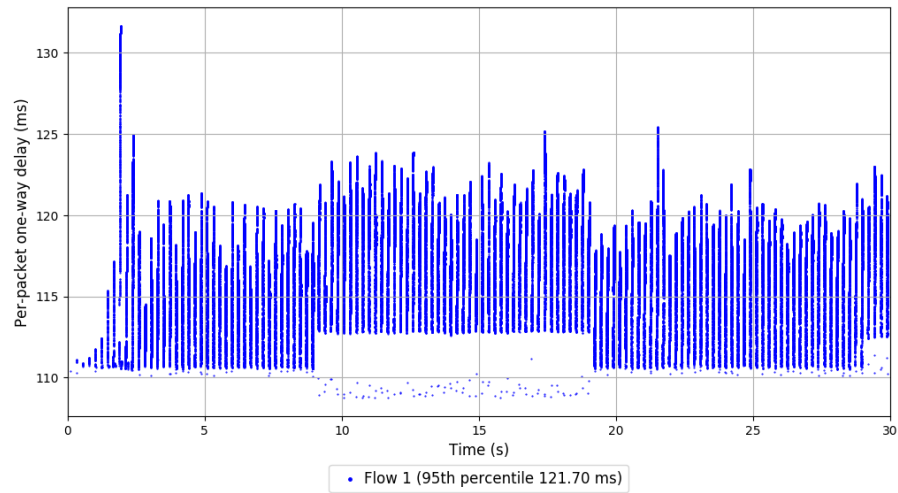
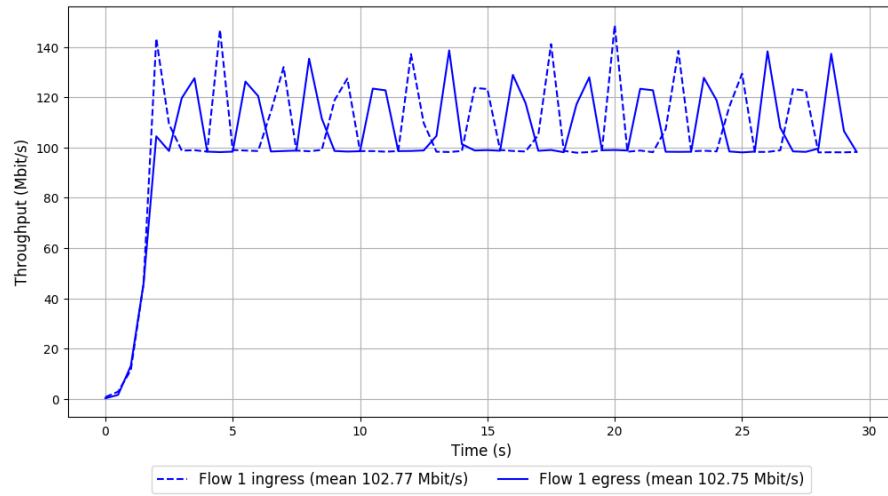
-- Flow 1:

Average throughput: 102.75 Mbit/s

95th percentile per-packet one-way delay: 121.705 ms

Loss rate: 0.00%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-03-20 10:41:22

End at: 2018-03-20 10:41:52

Below is generated by plot.py at 2018-03-20 12:20:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 103.02 Mbit/s

95th percentile per-packet one-way delay: 122.608 ms

Loss rate: 0.00%

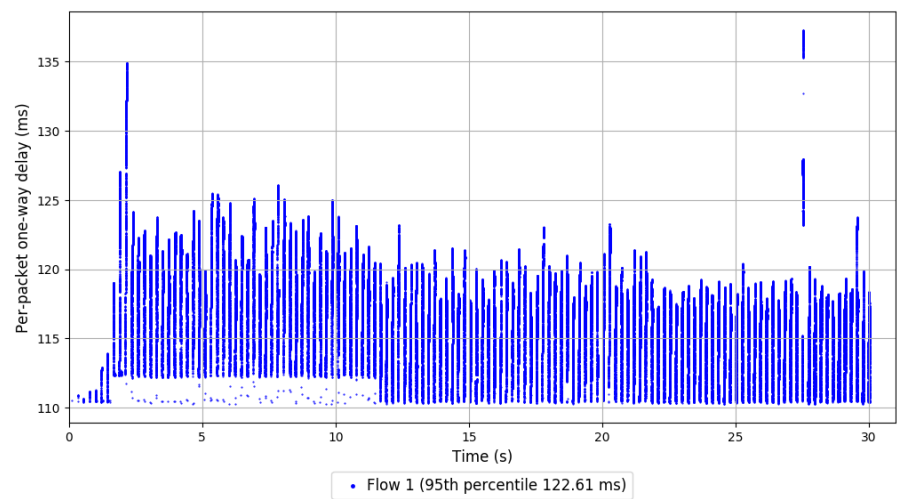
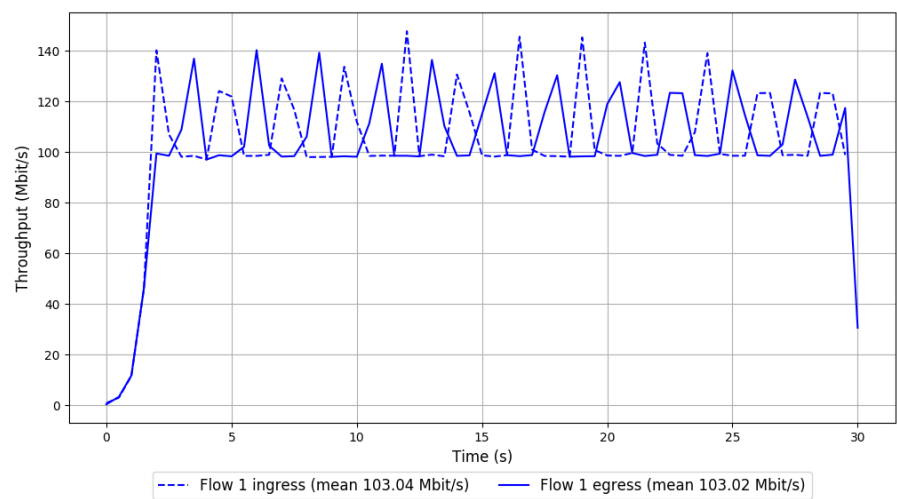
-- Flow 1:

Average throughput: 103.02 Mbit/s

95th percentile per-packet one-way delay: 122.608 ms

Loss rate: 0.00%

Run 10: Report of TCP Cubic — Data Link

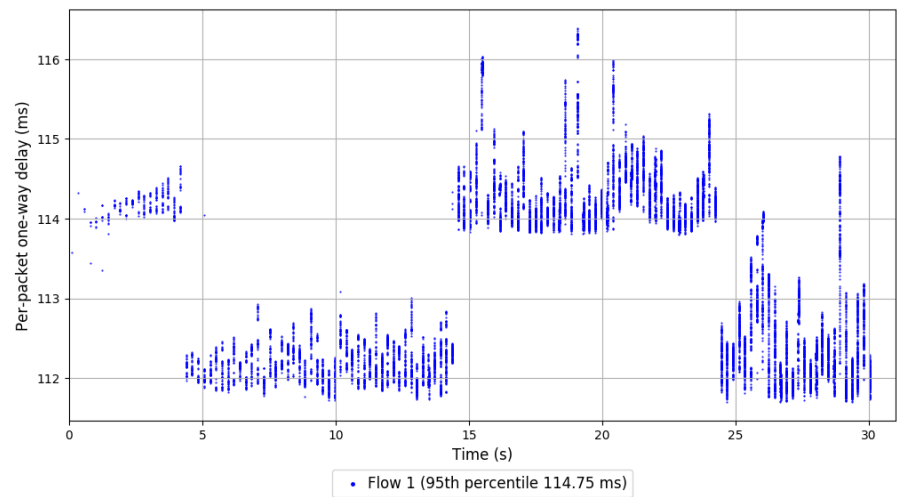
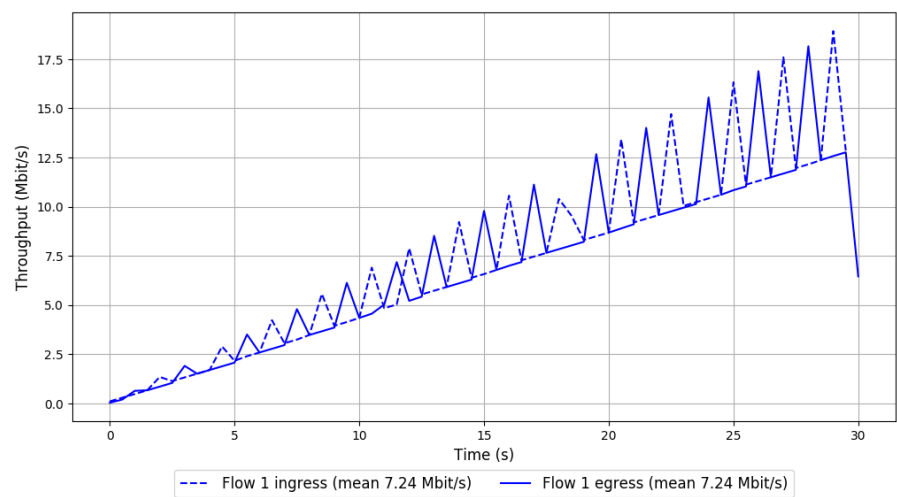


```
Run 1: Statistics of LEDBAT

Start at: 2018-03-20 08:31:59
End at: 2018-03-20 08:32:29

# Below is generated by plot.py at 2018-03-20 12:20:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.24 Mbit/s
95th percentile per-packet one-way delay: 114.754 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.24 Mbit/s
95th percentile per-packet one-way delay: 114.754 ms
Loss rate: 0.00%
```

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-03-20 08:47:17

End at: 2018-03-20 08:47:47

Below is generated by plot.py at 2018-03-20 12:20:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.90 Mbit/s

95th percentile per-packet one-way delay: 113.737 ms

Loss rate: 0.00%

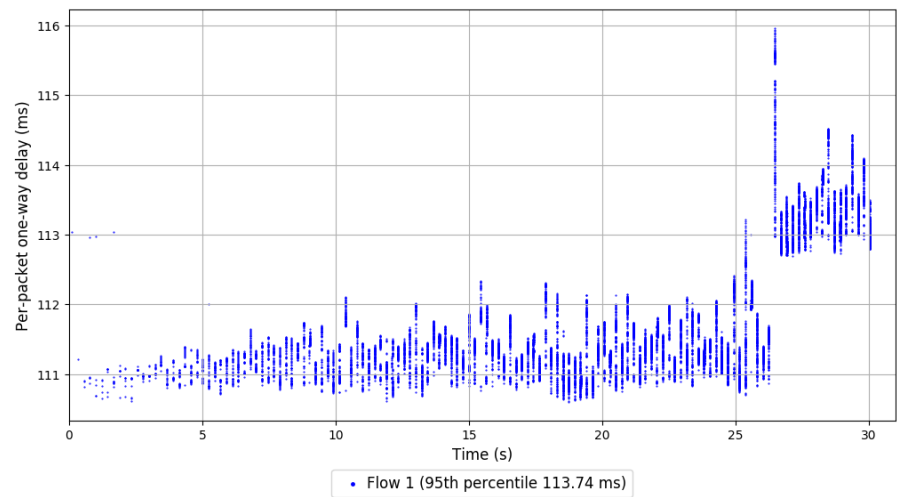
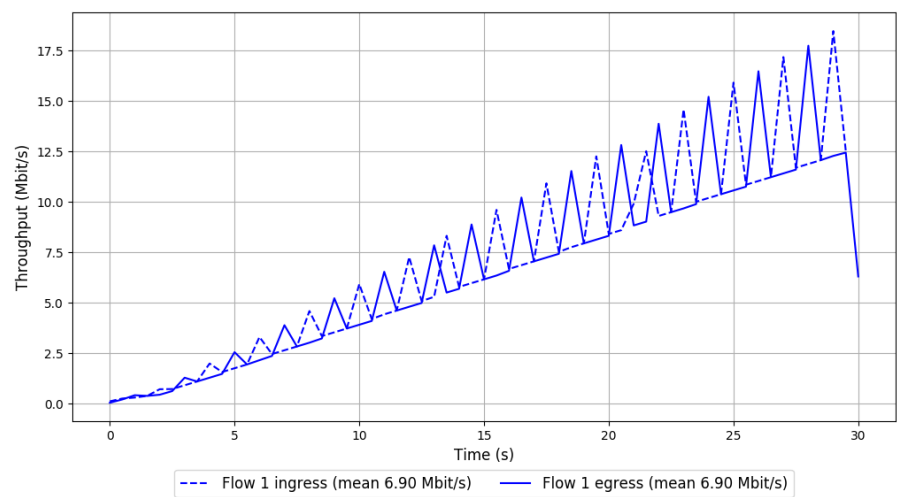
-- Flow 1:

Average throughput: 6.90 Mbit/s

95th percentile per-packet one-way delay: 113.737 ms

Loss rate: 0.00%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-03-20 09:02:27

End at: 2018-03-20 09:02:58

Below is generated by plot.py at 2018-03-20 12:20:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.23 Mbit/s

95th percentile per-packet one-way delay: 113.540 ms

Loss rate: 0.00%

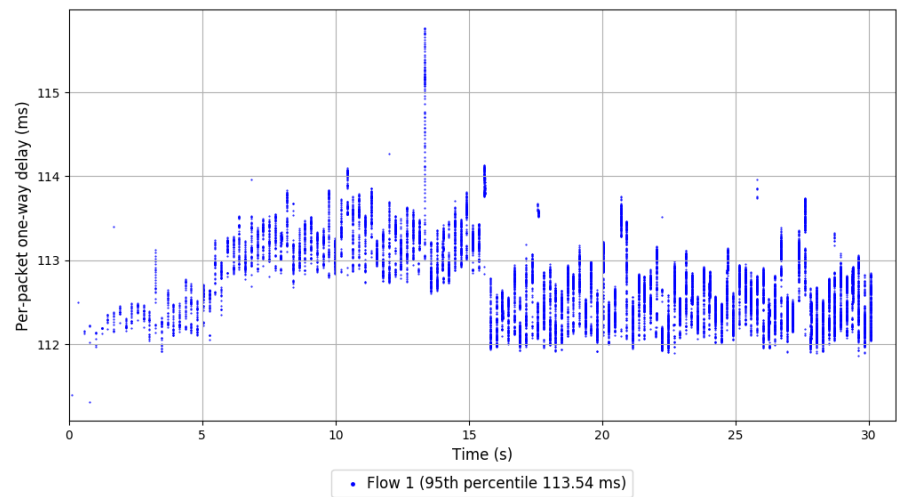
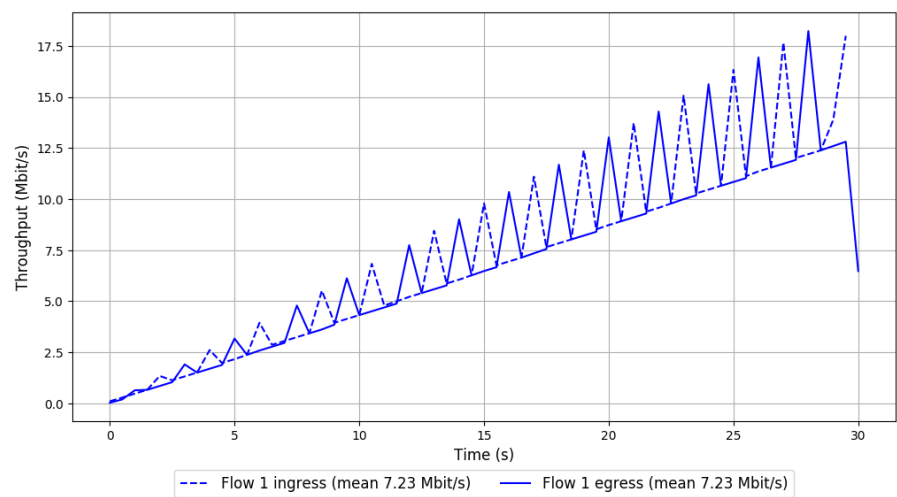
-- Flow 1:

Average throughput: 7.23 Mbit/s

95th percentile per-packet one-way delay: 113.540 ms

Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-03-20 09:17:42

End at: 2018-03-20 09:18:12

Below is generated by plot.py at 2018-03-20 12:20:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.83 Mbit/s

95th percentile per-packet one-way delay: 113.212 ms

Loss rate: 0.00%

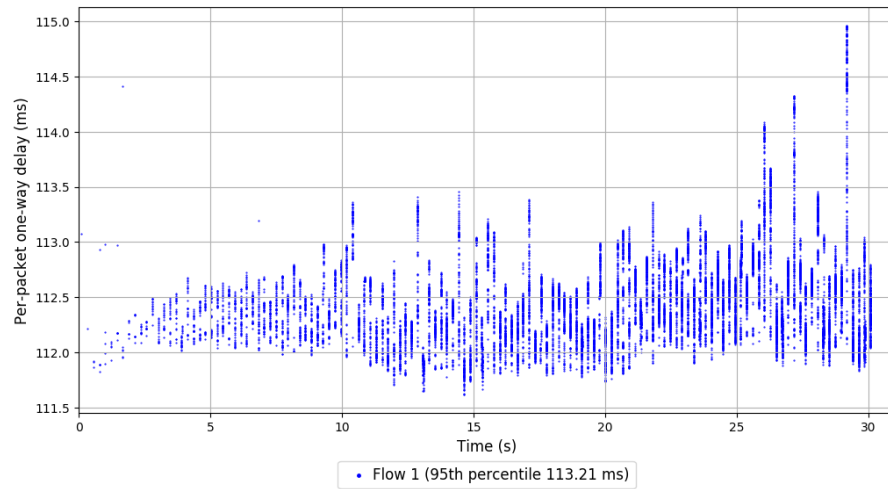
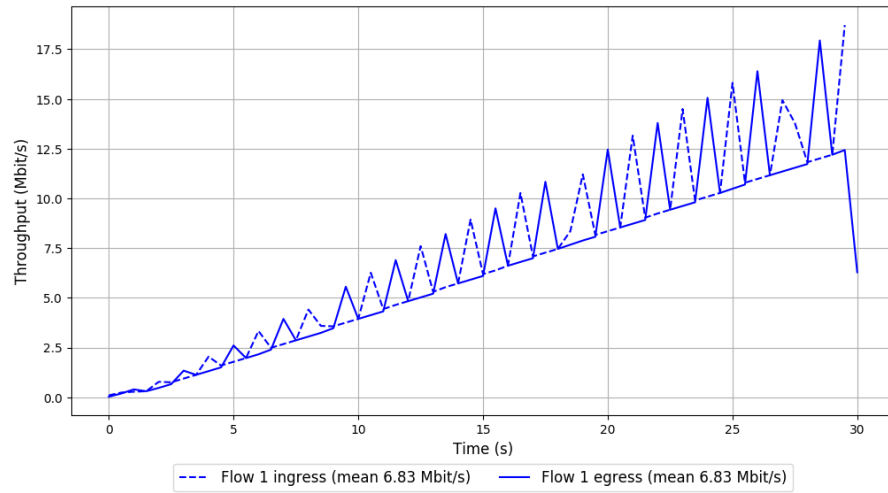
-- Flow 1:

Average throughput: 6.83 Mbit/s

95th percentile per-packet one-way delay: 113.212 ms

Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-03-20 09:33:16

End at: 2018-03-20 09:33:47

Below is generated by plot.py at 2018-03-20 12:20:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.17 Mbit/s

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

Loss rate: 0.00%

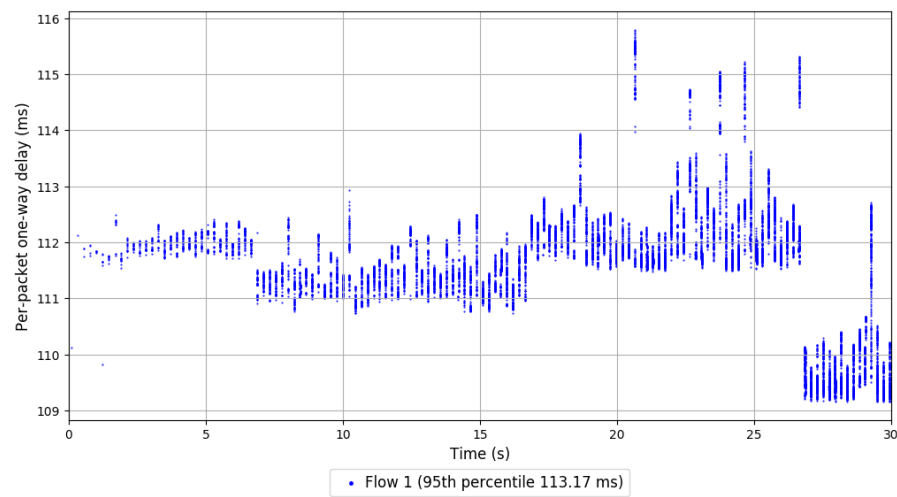
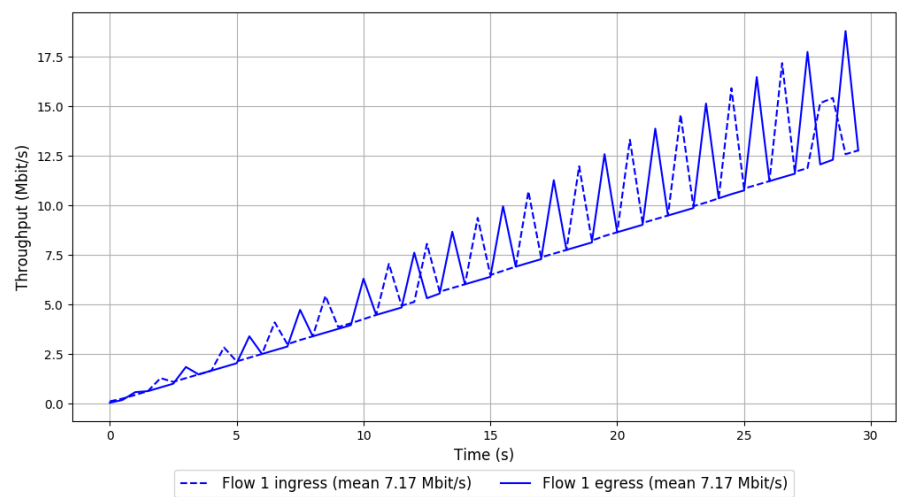
-- Flow 1:

Average throughput: 7.17 Mbit/s

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

Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-03-20 09:48:59

End at: 2018-03-20 09:49:29

Below is generated by plot.py at 2018-03-20 12:20:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.38 Mbit/s

95th percentile per-packet one-way delay: 111.809 ms

Loss rate: 0.00%

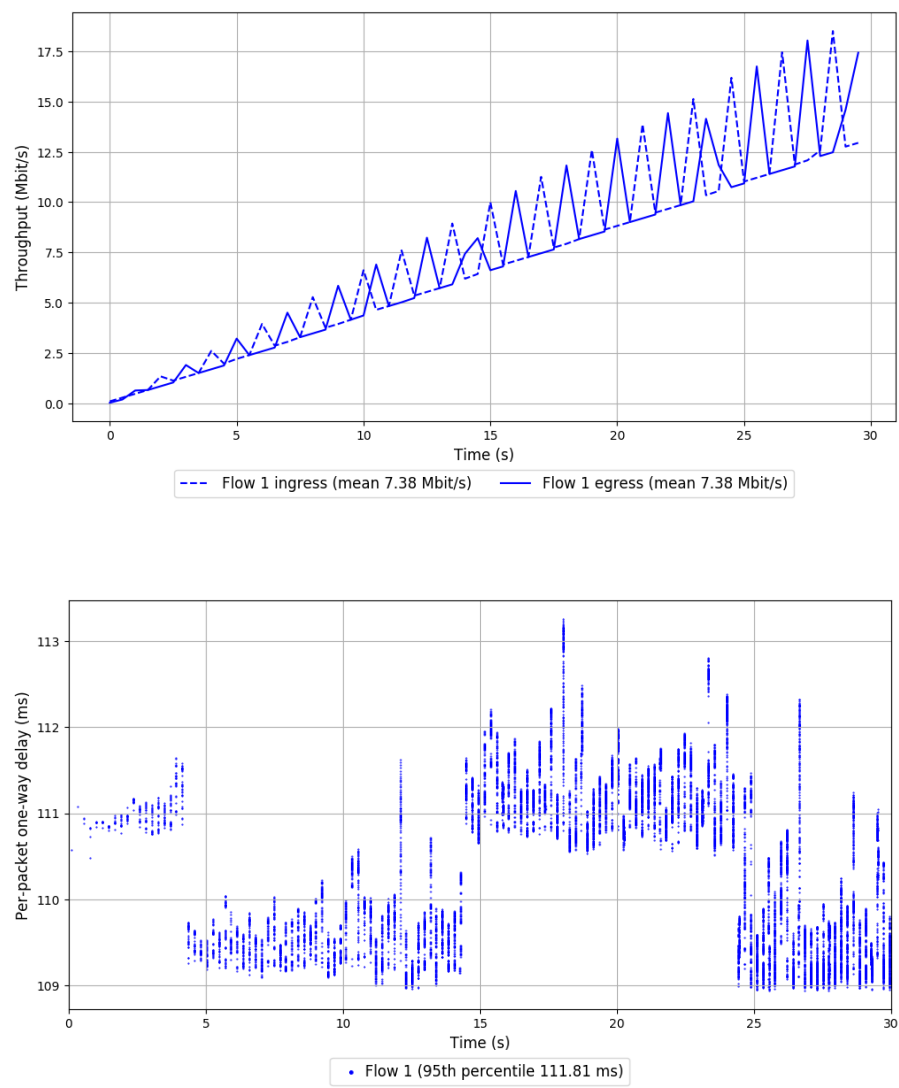
-- Flow 1:

Average throughput: 7.38 Mbit/s

95th percentile per-packet one-way delay: 111.809 ms

Loss rate: 0.00%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-03-20 10:04:27

End at: 2018-03-20 10:04:57

Below is generated by plot.py at 2018-03-20 12:20:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.62 Mbit/s

95th percentile per-packet one-way delay: 113.685 ms

Loss rate: 0.00%

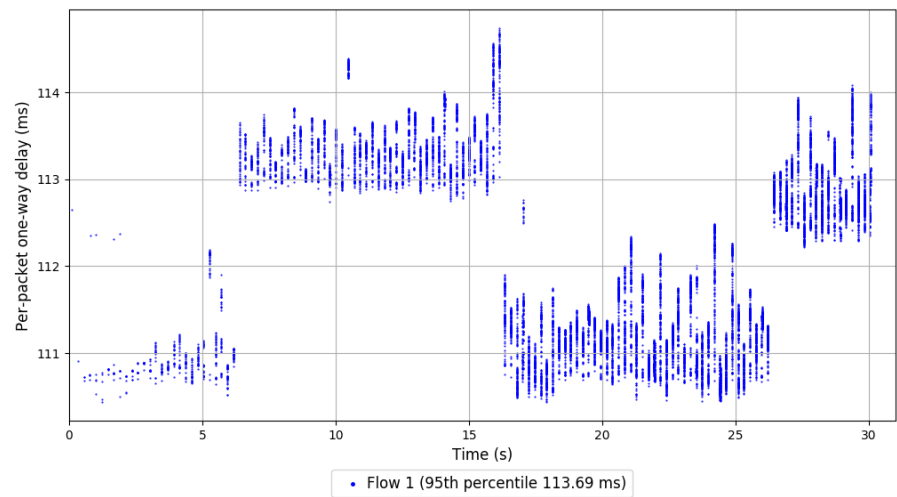
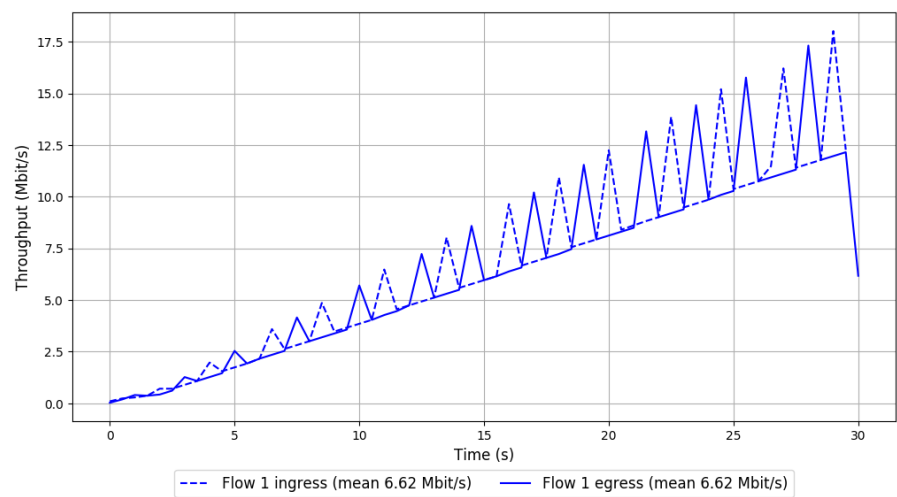
-- Flow 1:

Average throughput: 6.62 Mbit/s

95th percentile per-packet one-way delay: 113.685 ms

Loss rate: 0.00%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-03-20 10:19:32

End at: 2018-03-20 10:20:02

Below is generated by plot.py at 2018-03-20 12:20:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.10 Mbit/s

95th percentile per-packet one-way delay: 113.843 ms

Loss rate: 0.00%

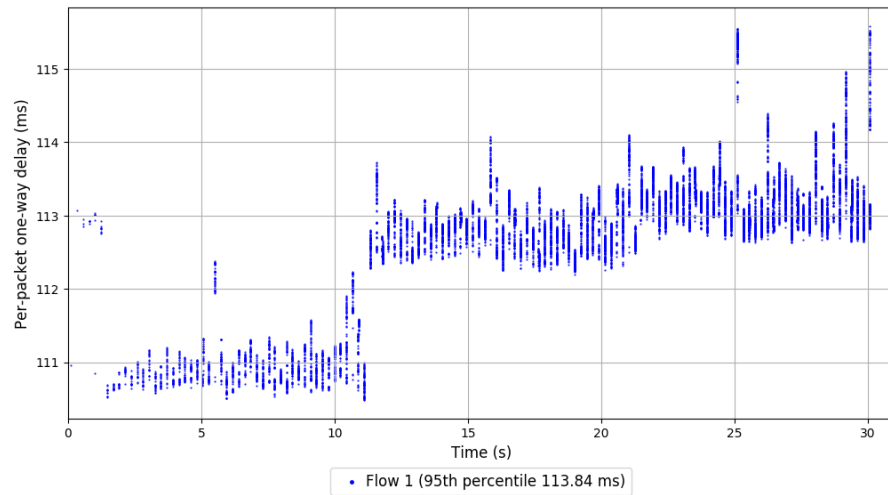
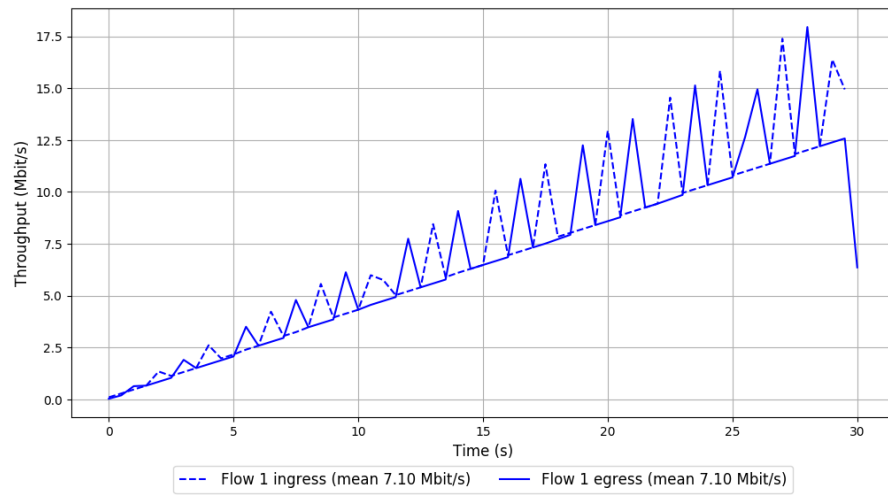
-- Flow 1:

Average throughput: 7.10 Mbit/s

95th percentile per-packet one-way delay: 113.843 ms

Loss rate: 0.00%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-03-20 10:35:05

End at: 2018-03-20 10:35:35

Below is generated by plot.py at 2018-03-20 12:20:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.27 Mbit/s

95th percentile per-packet one-way delay: 112.938 ms

Loss rate: 0.00%

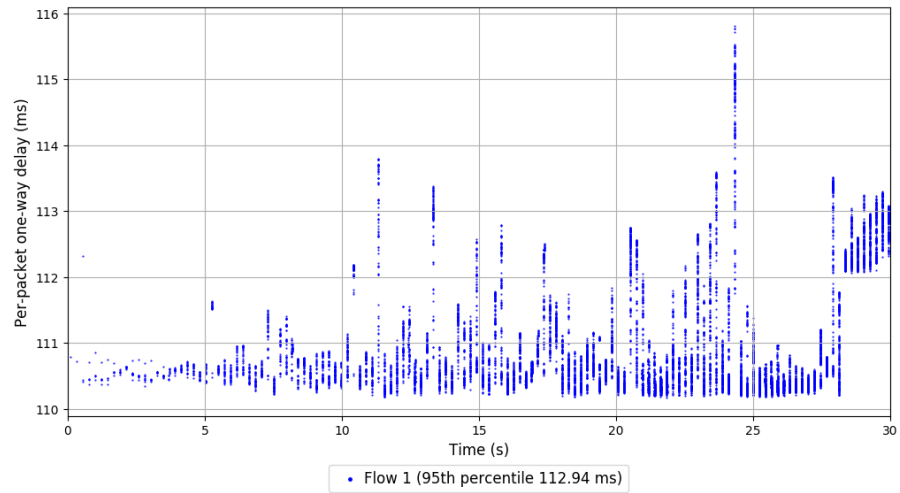
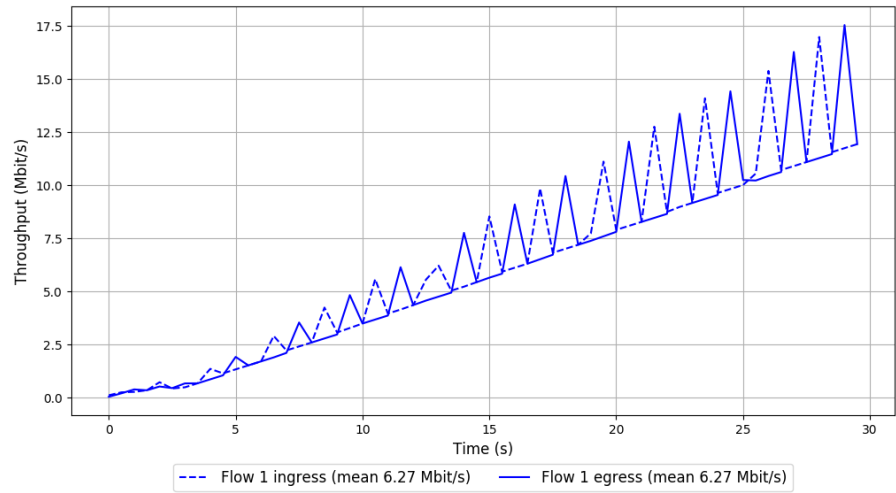
-- Flow 1:

Average throughput: 6.27 Mbit/s

95th percentile per-packet one-way delay: 112.938 ms

Loss rate: 0.00%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-03-20 10:50:36

End at: 2018-03-20 10:51:06

Below is generated by plot.py at 2018-03-20 12:20:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.16 Mbit/s

95th percentile per-packet one-way delay: 112.989 ms

Loss rate: 0.00%

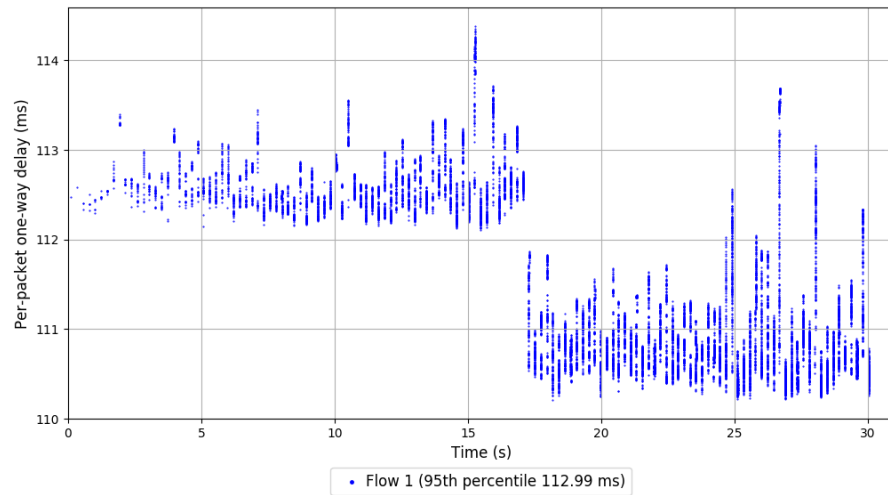
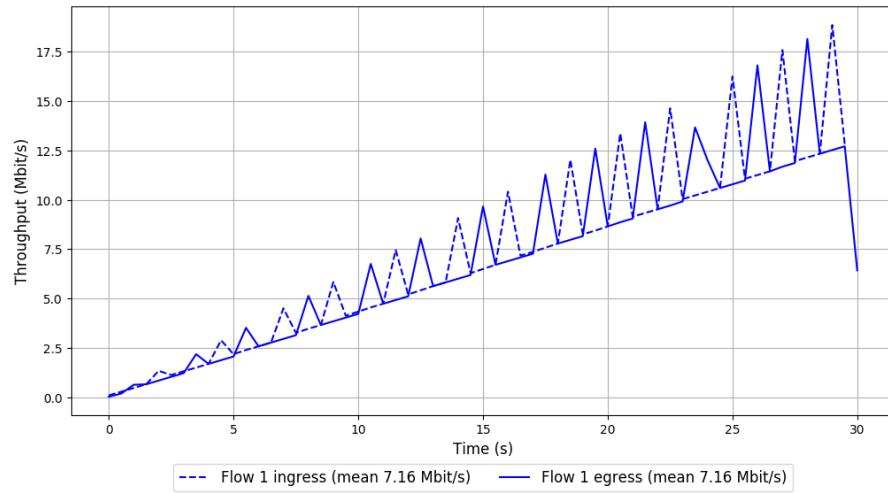
-- Flow 1:

Average throughput: 7.16 Mbit/s

95th percentile per-packet one-way delay: 112.989 ms

Loss rate: 0.00%

Run 10: Report of LEDBAT — Data Link



Run 1: Statistics of PCC

Start at: 2018-03-20 08:36:25

End at: 2018-03-20 08:36:55

Below is generated by plot.py at 2018-03-20 12:28:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 509.00 Mbit/s

95th percentile per-packet one-way delay: 200.109 ms

Loss rate: 2.44%

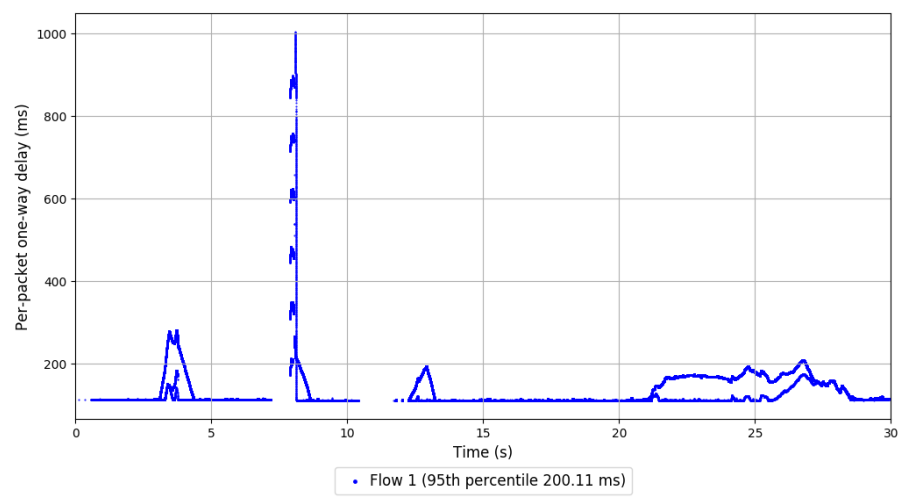
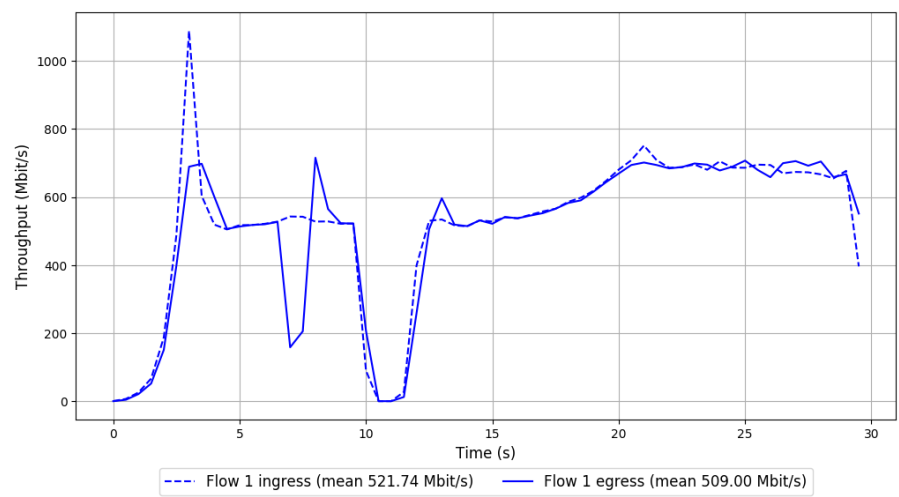
-- Flow 1:

Average throughput: 509.00 Mbit/s

95th percentile per-packet one-way delay: 200.109 ms

Loss rate: 2.44%

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2018-03-20 08:51:37

End at: 2018-03-20 08:52:07

Below is generated by plot.py at 2018-03-20 12:29:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 543.22 Mbit/s

95th percentile per-packet one-way delay: 157.332 ms

Loss rate: 0.95%

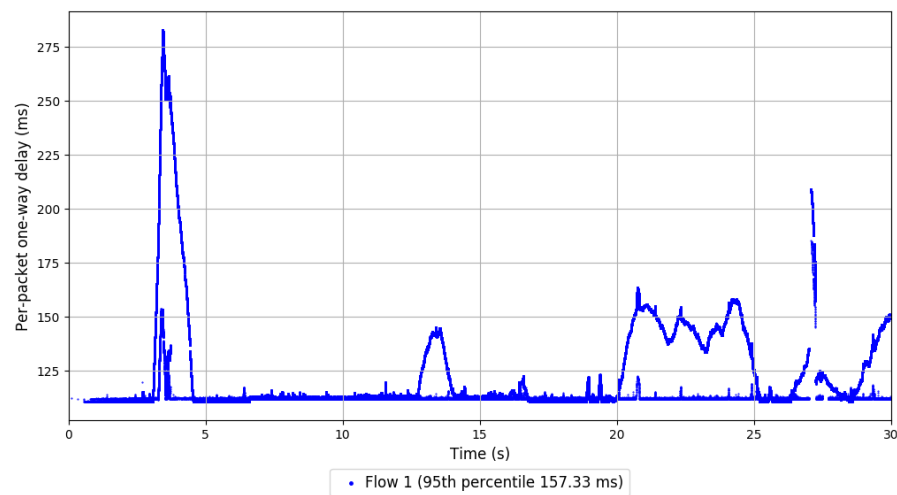
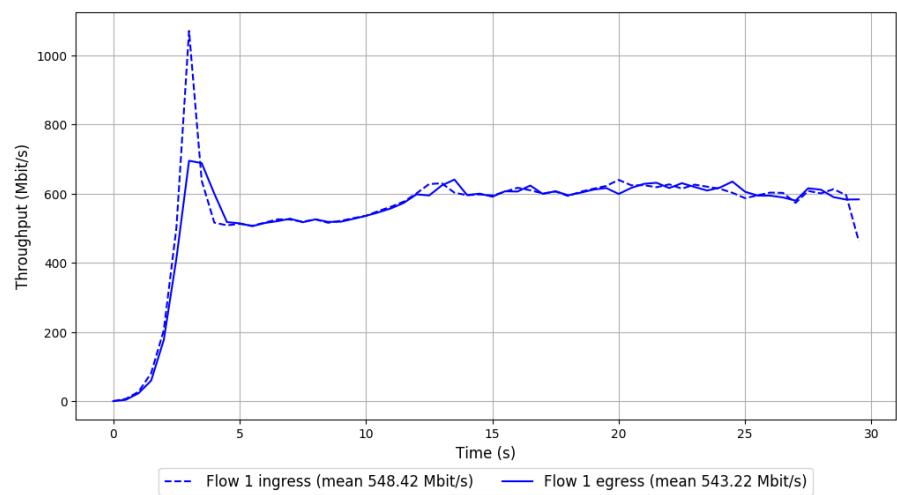
-- Flow 1:

Average throughput: 543.22 Mbit/s

95th percentile per-packet one-way delay: 157.332 ms

Loss rate: 0.95%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-03-20 09:06:51

End at: 2018-03-20 09:07:21

Below is generated by plot.py at 2018-03-20 12:29:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 555.25 Mbit/s

95th percentile per-packet one-way delay: 227.342 ms

Loss rate: 1.32%

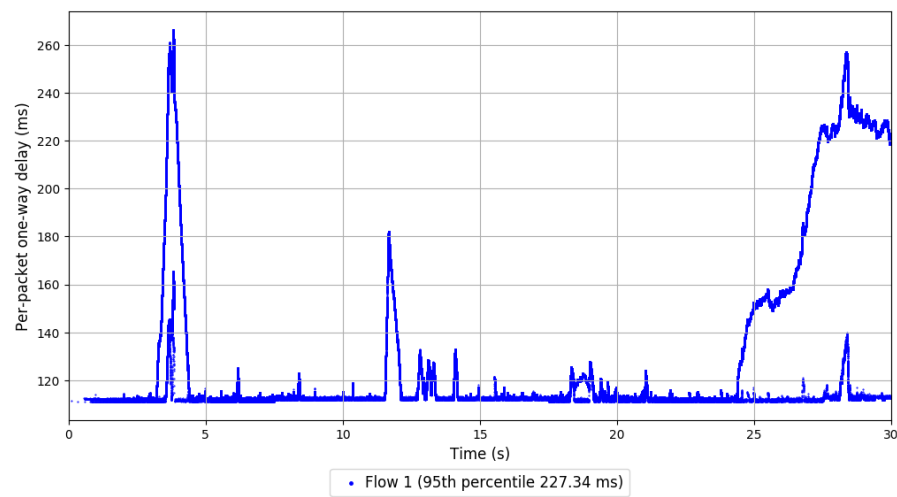
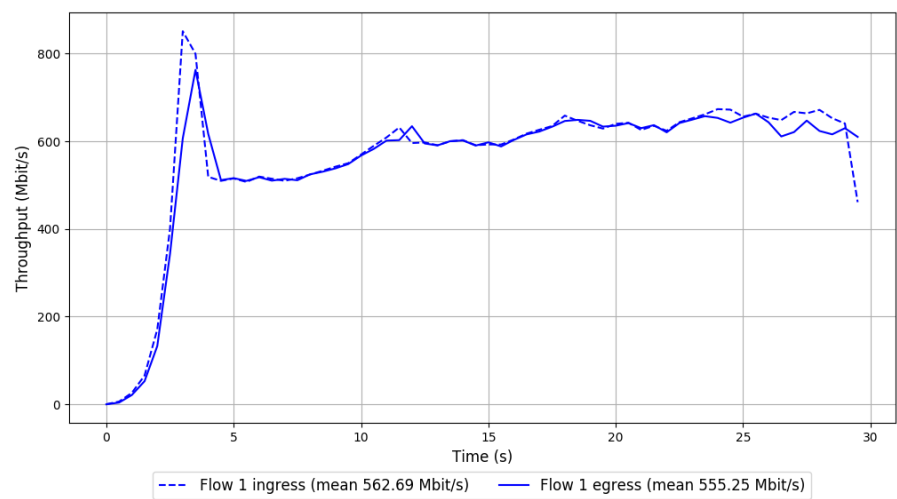
-- Flow 1:

Average throughput: 555.25 Mbit/s

95th percentile per-packet one-way delay: 227.342 ms

Loss rate: 1.32%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-03-20 09:22:08

End at: 2018-03-20 09:22:38

Below is generated by plot.py at 2018-03-20 12:29:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 539.50 Mbit/s

95th percentile per-packet one-way delay: 204.955 ms

Loss rate: 0.45%

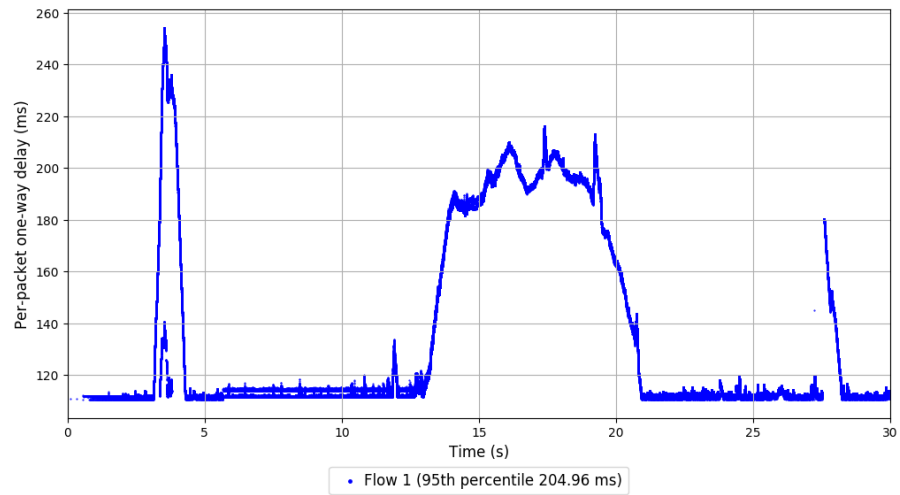
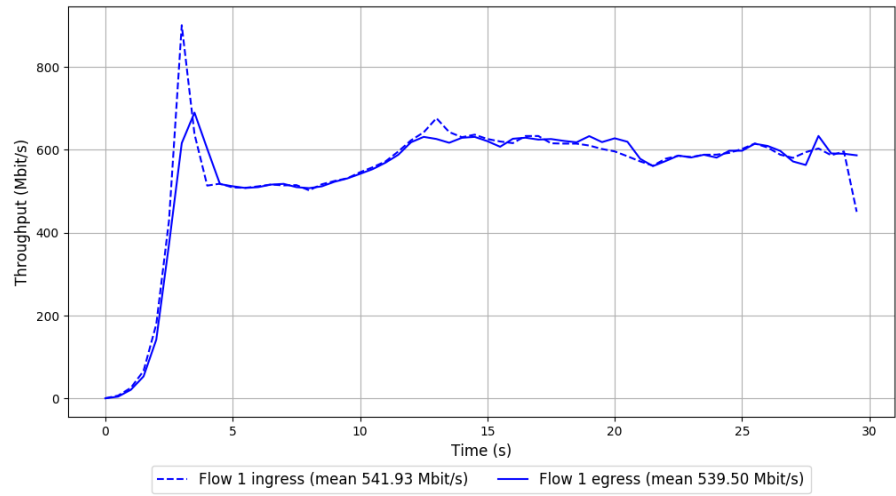
-- Flow 1:

Average throughput: 539.50 Mbit/s

95th percentile per-packet one-way delay: 204.955 ms

Loss rate: 0.45%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-03-20 09:37:46

End at: 2018-03-20 09:38:16

Below is generated by plot.py at 2018-03-20 12:29:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 539.38 Mbit/s

95th percentile per-packet one-way delay: 257.459 ms

Loss rate: 3.53%

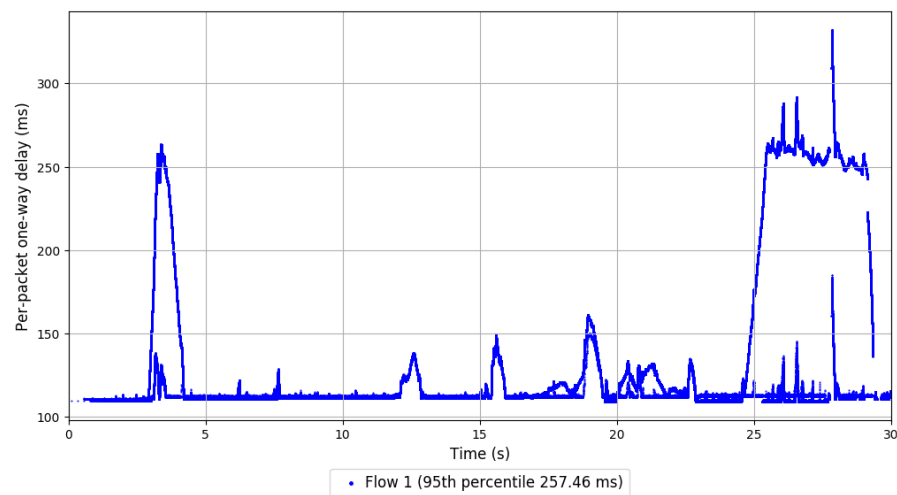
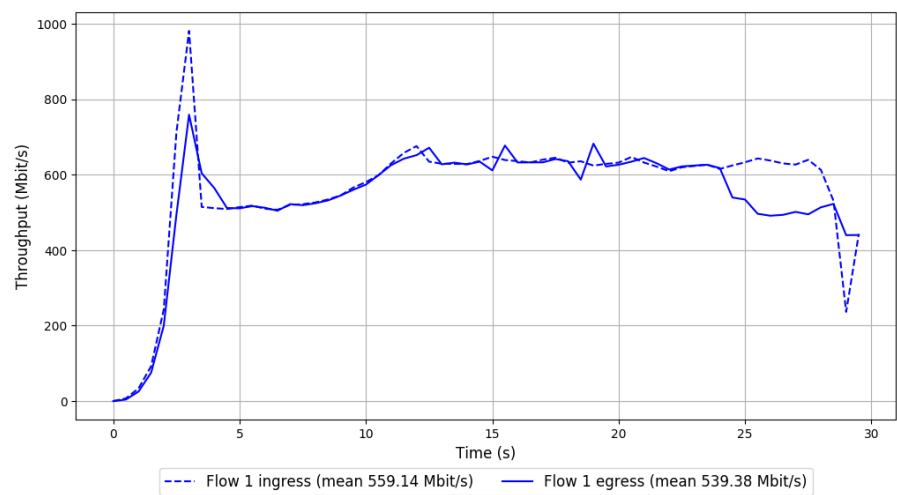
-- Flow 1:

Average throughput: 539.38 Mbit/s

95th percentile per-packet one-way delay: 257.459 ms

Loss rate: 3.53%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-03-20 09:53:24

End at: 2018-03-20 09:53:54

Below is generated by plot.py at 2018-03-20 12:29:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 484.98 Mbit/s

95th percentile per-packet one-way delay: 253.091 ms

Loss rate: 2.49%

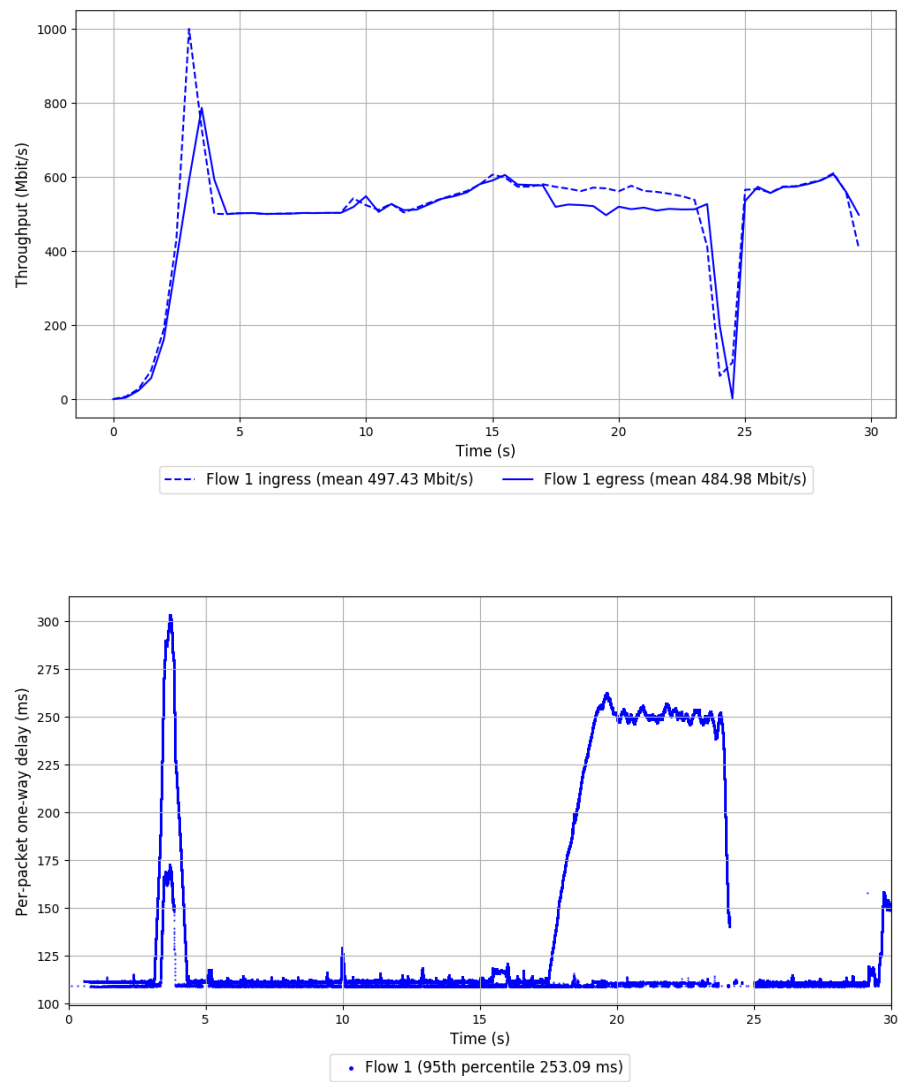
-- Flow 1:

Average throughput: 484.98 Mbit/s

95th percentile per-packet one-way delay: 253.091 ms

Loss rate: 2.49%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-03-20 10:08:48

End at: 2018-03-20 10:09:18

Below is generated by plot.py at 2018-03-20 12:29:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 522.76 Mbit/s

95th percentile per-packet one-way delay: 252.746 ms

Loss rate: 3.06%

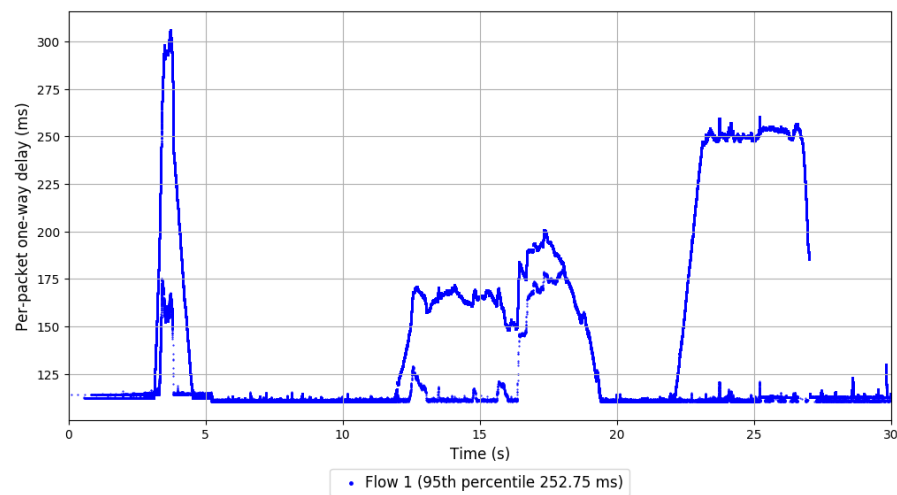
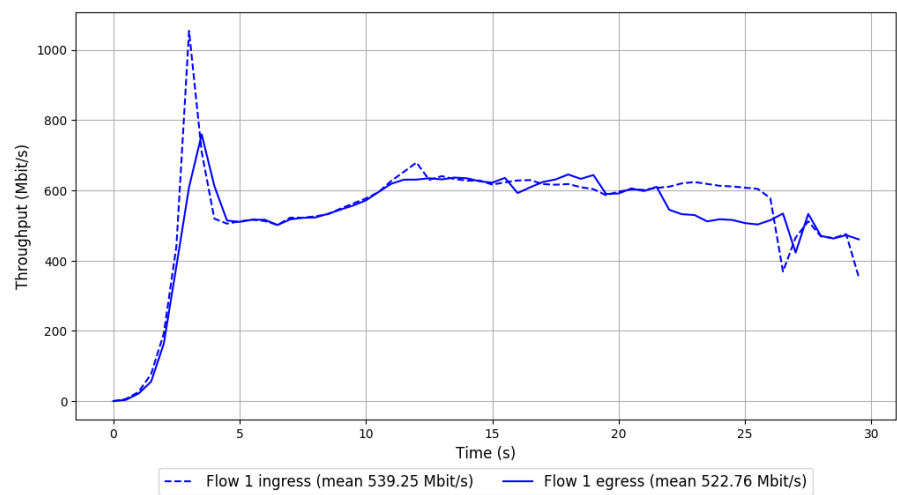
-- Flow 1:

Average throughput: 522.76 Mbit/s

95th percentile per-packet one-way delay: 252.746 ms

Loss rate: 3.06%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-03-20 10:23:56

End at: 2018-03-20 10:24:26

Below is generated by plot.py at 2018-03-20 12:30:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 546.61 Mbit/s

95th percentile per-packet one-way delay: 232.889 ms

Loss rate: 2.07%

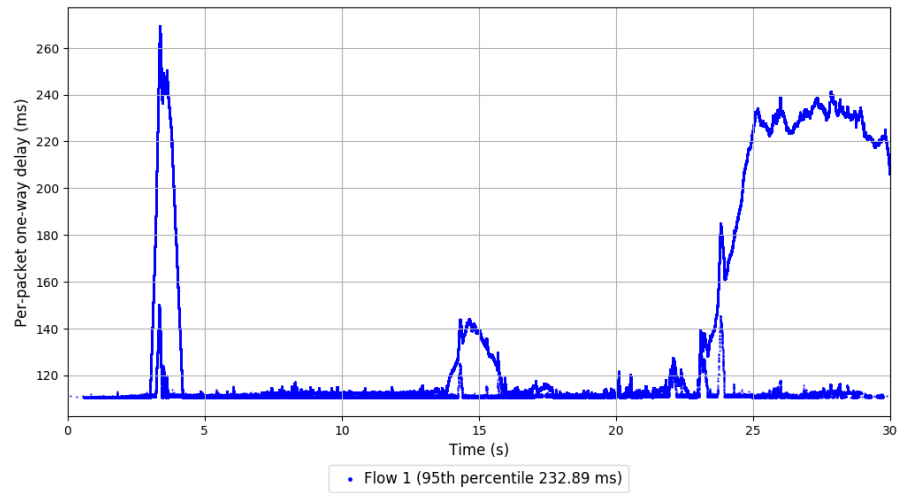
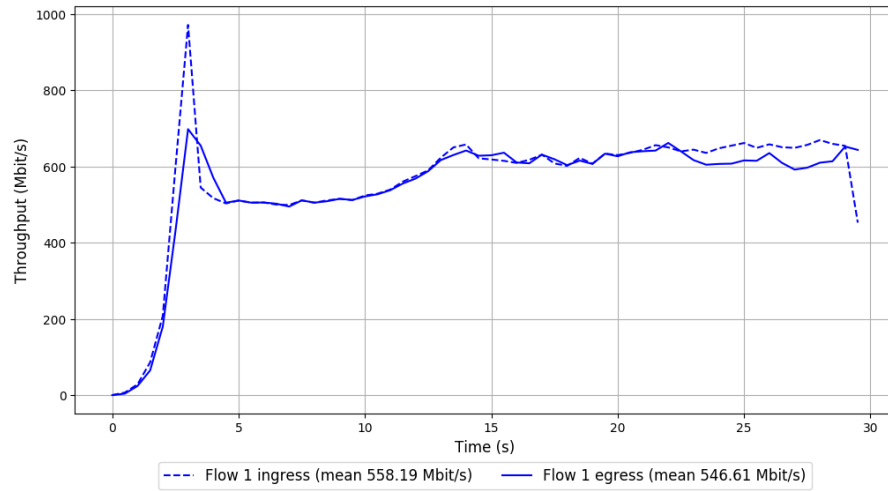
-- Flow 1:

Average throughput: 546.61 Mbit/s

95th percentile per-packet one-way delay: 232.889 ms

Loss rate: 2.07%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2018-03-20 10:39:27

End at: 2018-03-20 10:39:57

Below is generated by plot.py at 2018-03-20 12:38:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 558.67 Mbit/s

95th percentile per-packet one-way delay: 266.251 ms

Loss rate: 2.79%

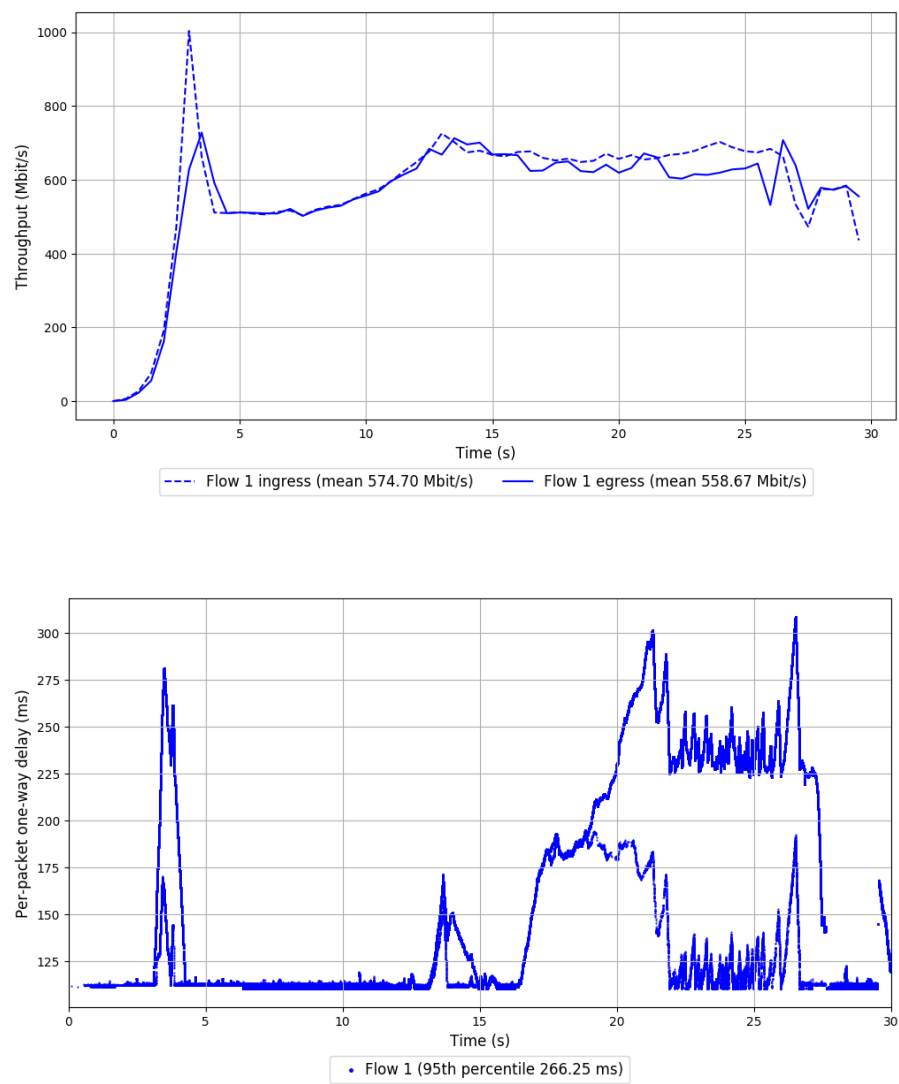
-- Flow 1:

Average throughput: 558.67 Mbit/s

95th percentile per-packet one-way delay: 266.251 ms

Loss rate: 2.79%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2018-03-20 10:55:03

End at: 2018-03-20 10:55:33

Below is generated by plot.py at 2018-03-20 12:38:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 514.61 Mbit/s

95th percentile per-packet one-way delay: 243.155 ms

Loss rate: 4.26%

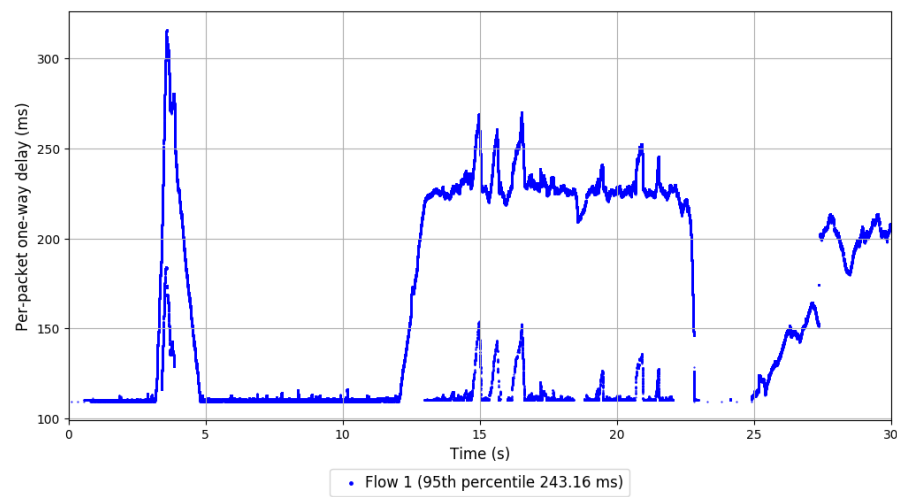
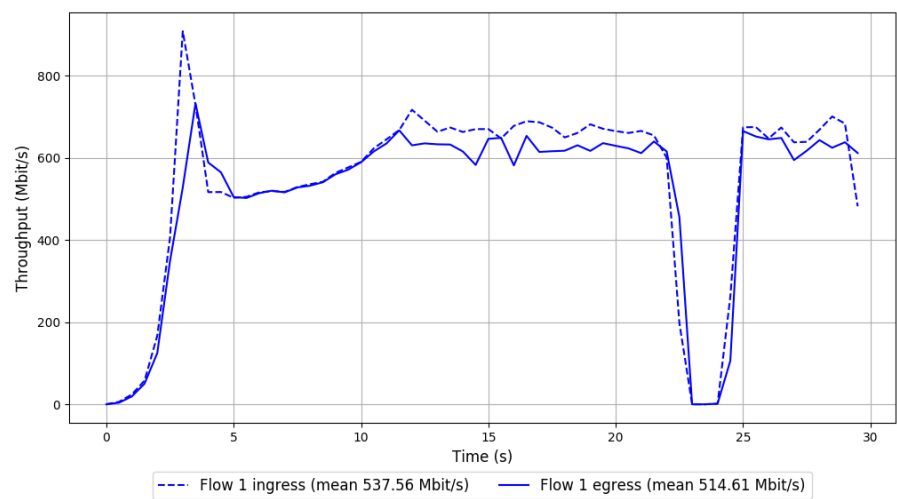
-- Flow 1:

Average throughput: 514.61 Mbit/s

95th percentile per-packet one-way delay: 243.155 ms

Loss rate: 4.26%

Run 10: Report of PCC — Data Link

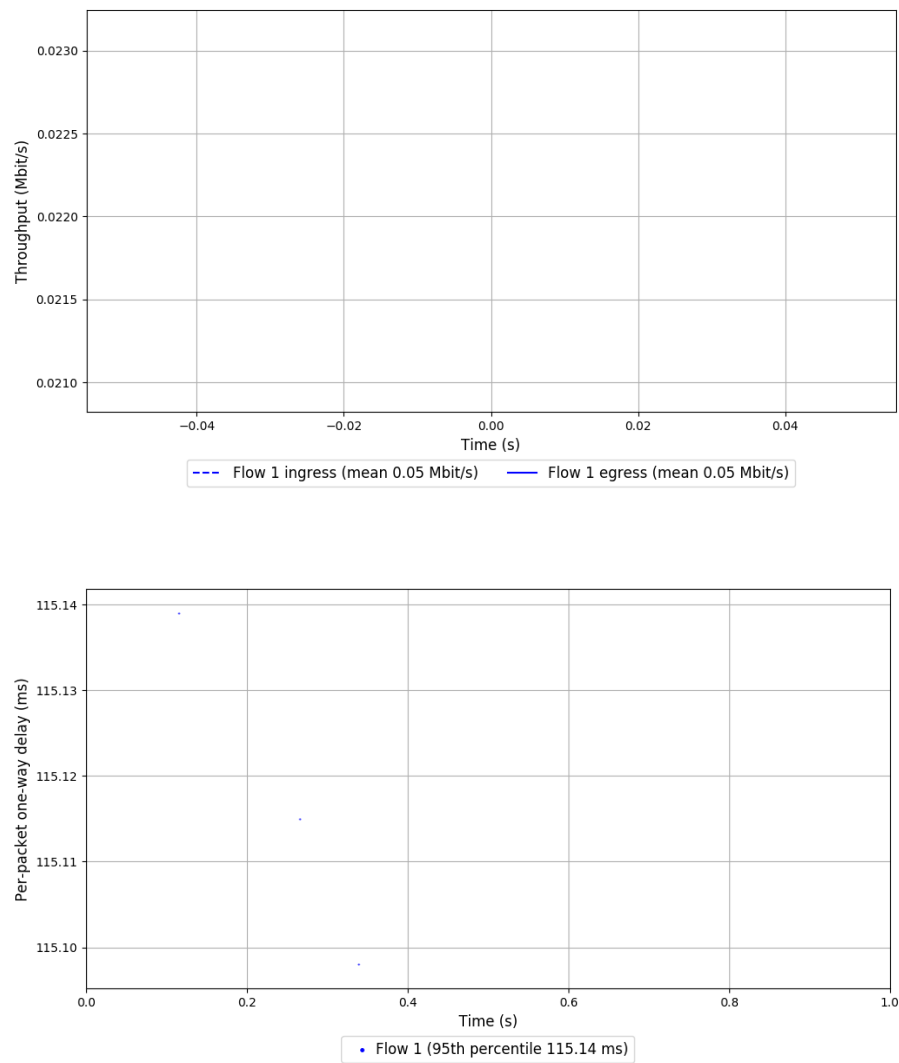


Run 1: Statistics of QUIC Cubic

Start at: 2018-03-20 08:29:19

End at: 2018-03-20 08:29:49

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-03-20 08:44:41

End at: 2018-03-20 08:45:11

Below is generated by plot.py at 2018-03-20 12:38:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 51.94 Mbit/s

95th percentile per-packet one-way delay: 113.110 ms

Loss rate: 0.00%

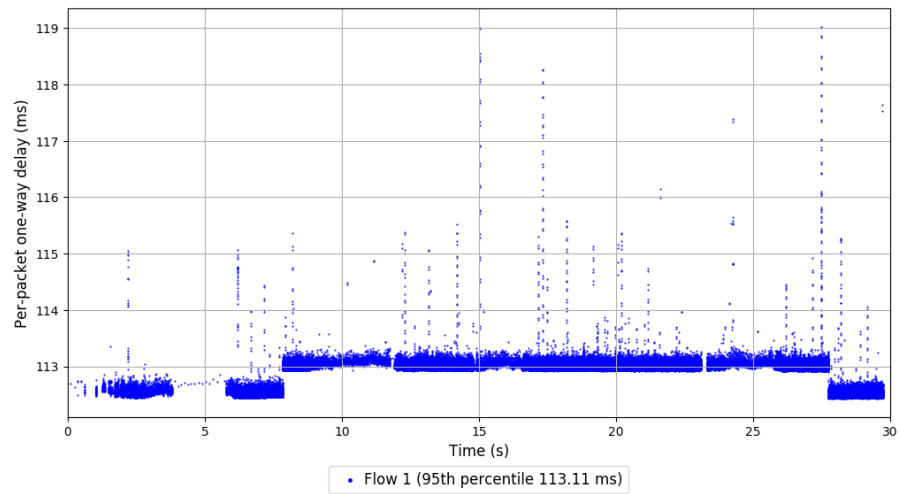
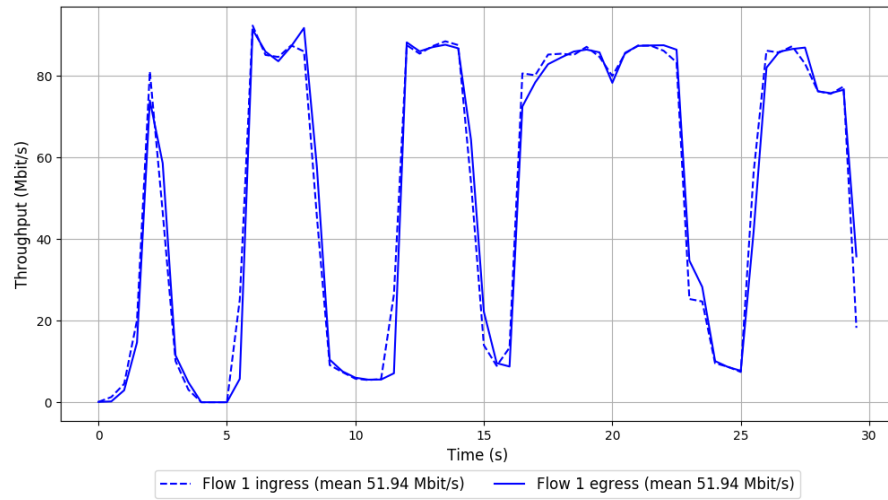
-- Flow 1:

Average throughput: 51.94 Mbit/s

95th percentile per-packet one-way delay: 113.110 ms

Loss rate: 0.00%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-03-20 08:59:58

End at: 2018-03-20 09:00:28

Below is generated by plot.py at 2018-03-20 12:38:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 47.98 Mbit/s

95th percentile per-packet one-way delay: 112.589 ms

Loss rate: 0.00%

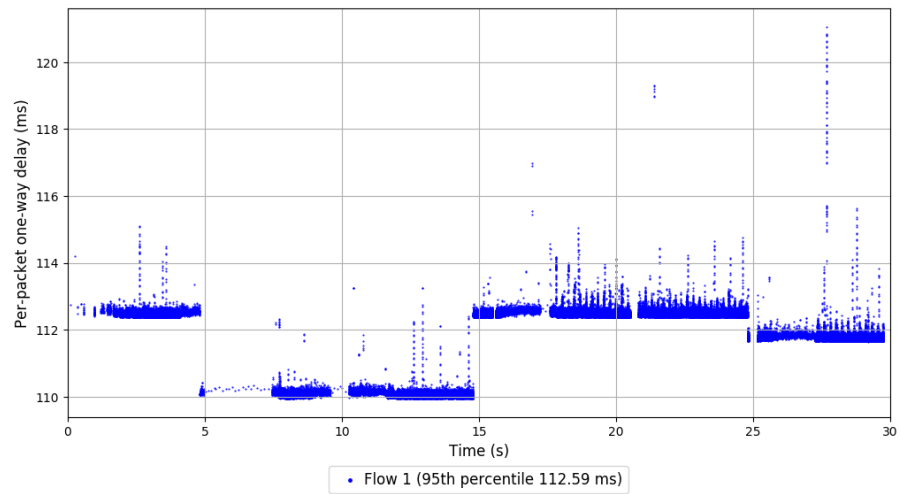
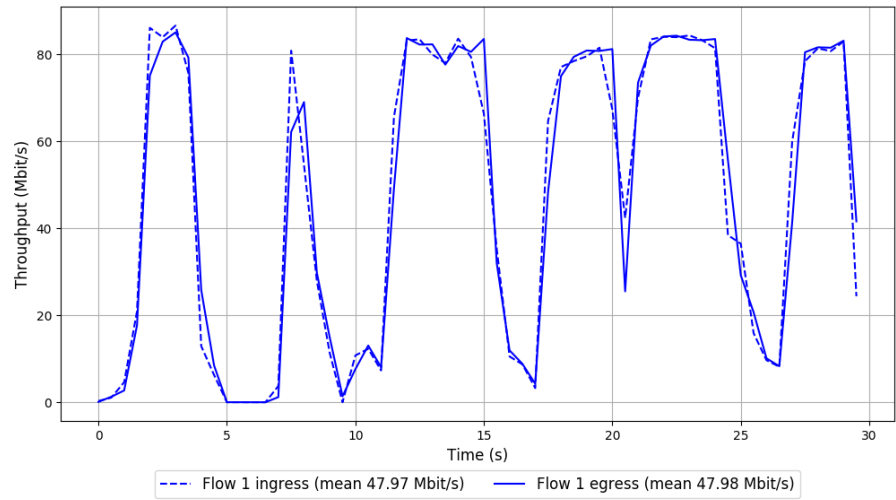
-- Flow 1:

Average throughput: 47.98 Mbit/s

95th percentile per-packet one-way delay: 112.589 ms

Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-03-20 09:15:14

End at: 2018-03-20 09:15:44

Below is generated by plot.py at 2018-03-20 12:38:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 53.42 Mbit/s

95th percentile per-packet one-way delay: 112.448 ms

Loss rate: 0.00%

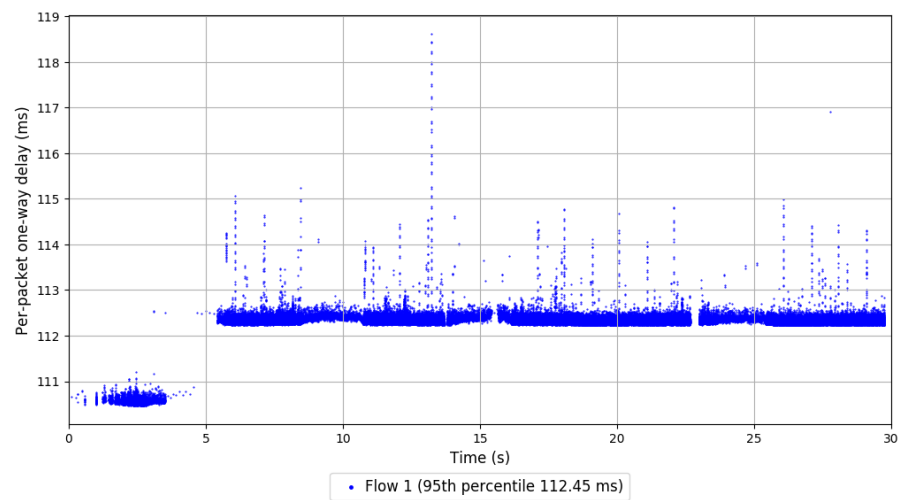
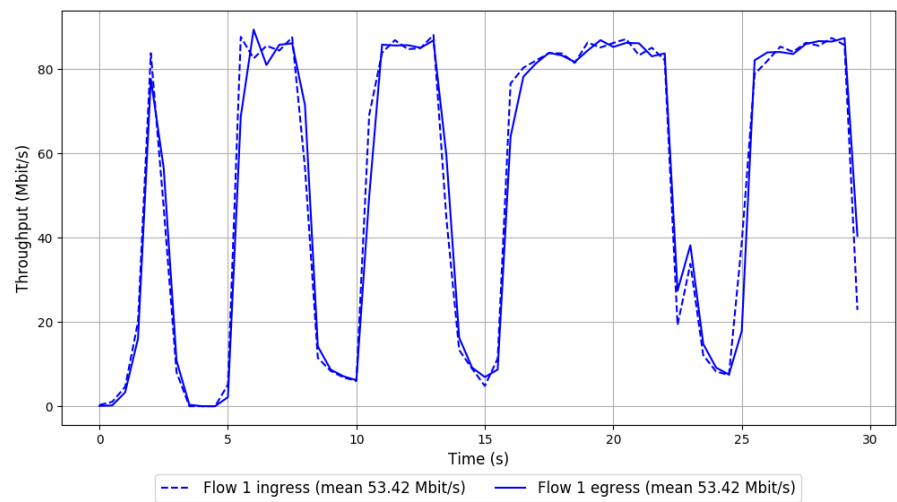
-- Flow 1:

Average throughput: 53.42 Mbit/s

95th percentile per-packet one-way delay: 112.448 ms

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-03-20 09:30:34

End at: 2018-03-20 09:31:04

Below is generated by plot.py at 2018-03-20 12:38:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 55.88 Mbit/s

95th percentile per-packet one-way delay: 110.633 ms

Loss rate: 0.00%

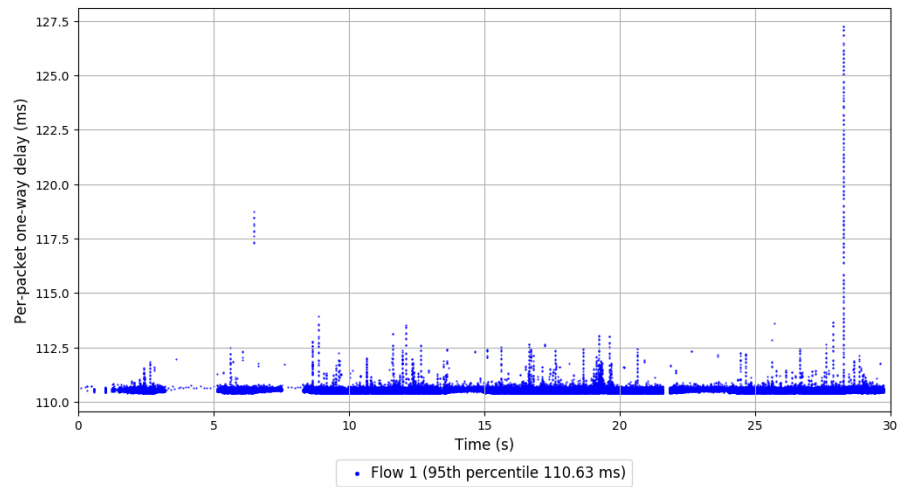
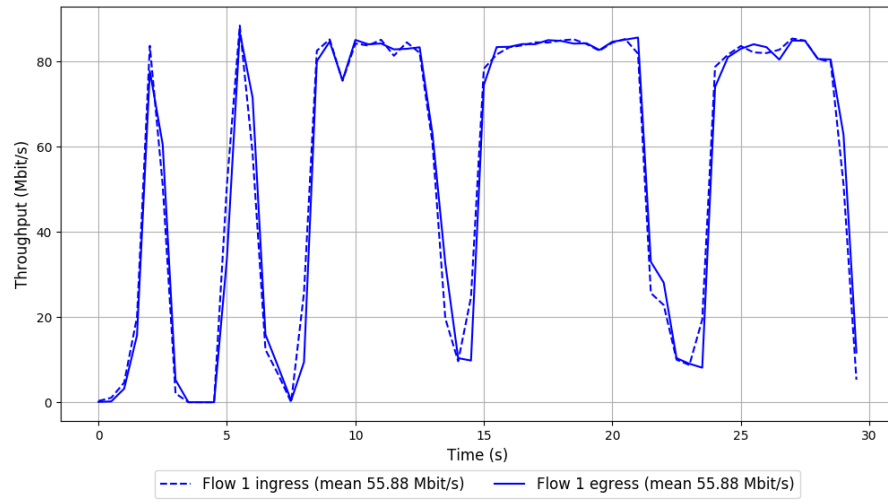
-- Flow 1:

Average throughput: 55.88 Mbit/s

95th percentile per-packet one-way delay: 110.633 ms

Loss rate: 0.00%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-03-20 09:46:17

End at: 2018-03-20 09:46:47

Below is generated by plot.py at 2018-03-20 12:38:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.53 Mbit/s

95th percentile per-packet one-way delay: 111.542 ms

Loss rate: 0.00%

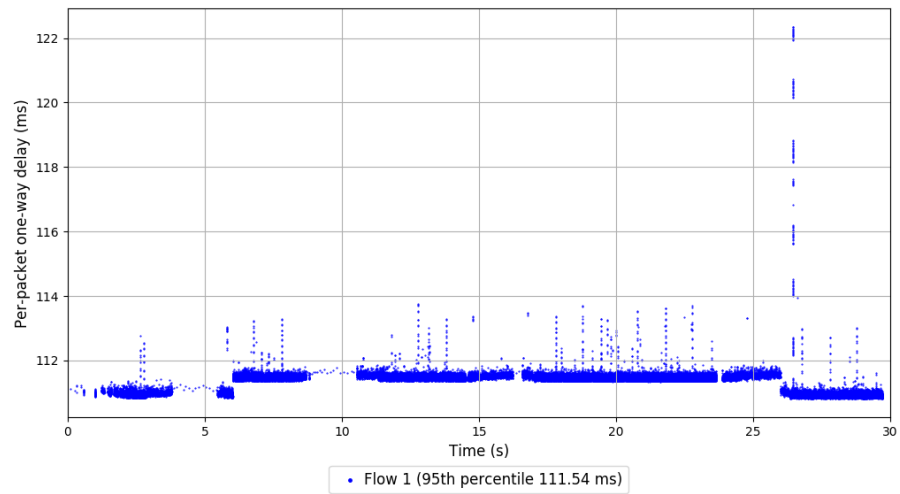
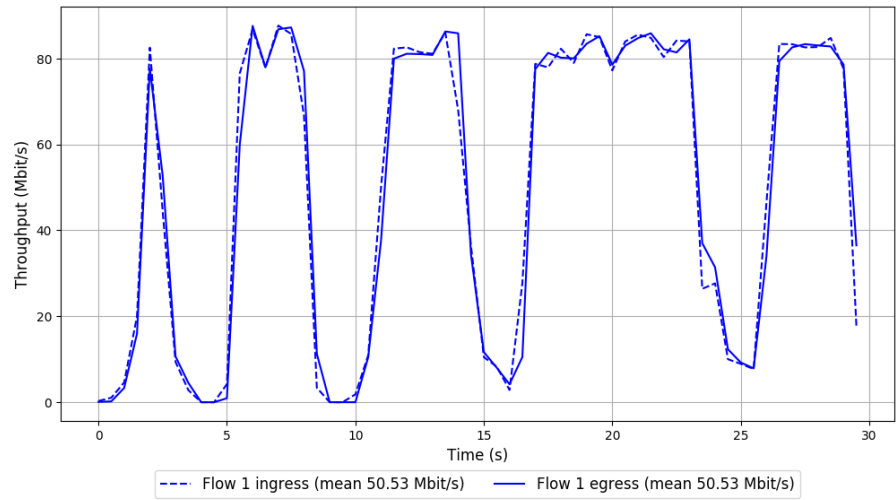
-- Flow 1:

Average throughput: 50.53 Mbit/s

95th percentile per-packet one-way delay: 111.542 ms

Loss rate: 0.00%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-03-20 10:01:40

End at: 2018-03-20 10:02:10

Below is generated by plot.py at 2018-03-20 12:38:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 52.04 Mbit/s

95th percentile per-packet one-way delay: 111.370 ms

Loss rate: 0.00%

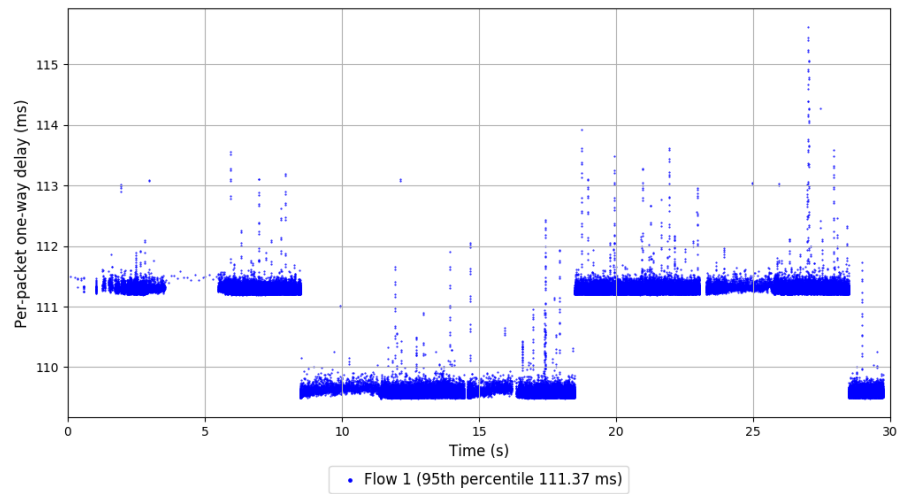
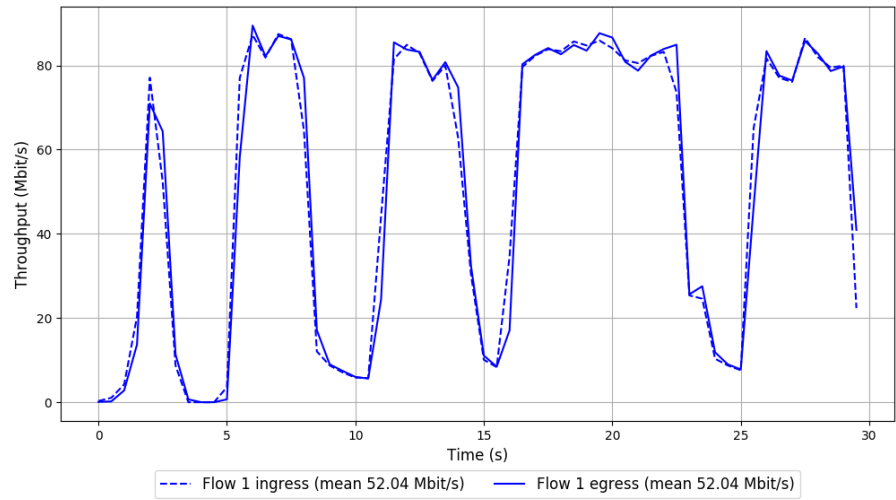
-- Flow 1:

Average throughput: 52.04 Mbit/s

95th percentile per-packet one-way delay: 111.370 ms

Loss rate: 0.00%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-03-20 10:17:03

End at: 2018-03-20 10:17:33

Below is generated by plot.py at 2018-03-20 12:38:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 48.45 Mbit/s

95th percentile per-packet one-way delay: 112.635 ms

Loss rate: 0.00%

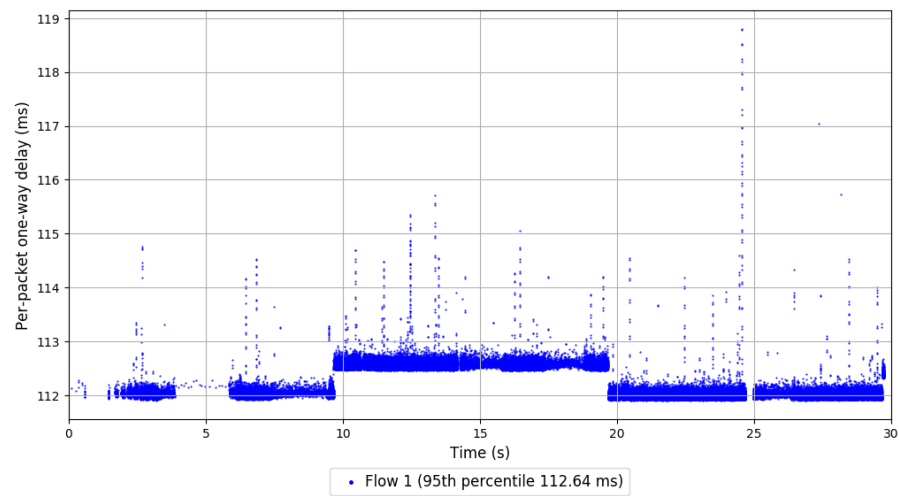
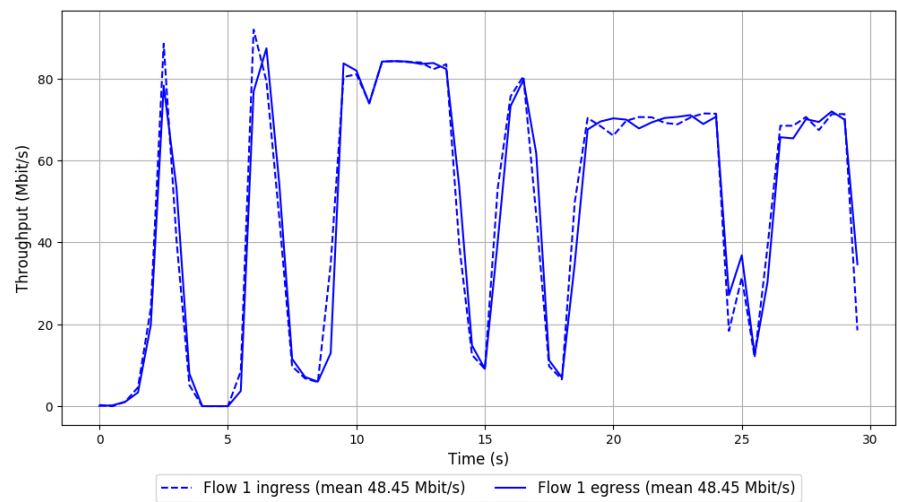
-- Flow 1:

Average throughput: 48.45 Mbit/s

95th percentile per-packet one-way delay: 112.635 ms

Loss rate: 0.00%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-03-20 10:32:28

End at: 2018-03-20 10:32:58

Below is generated by plot.py at 2018-03-20 12:38:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.29 Mbit/s

95th percentile per-packet one-way delay: 112.237 ms

Loss rate: 0.00%

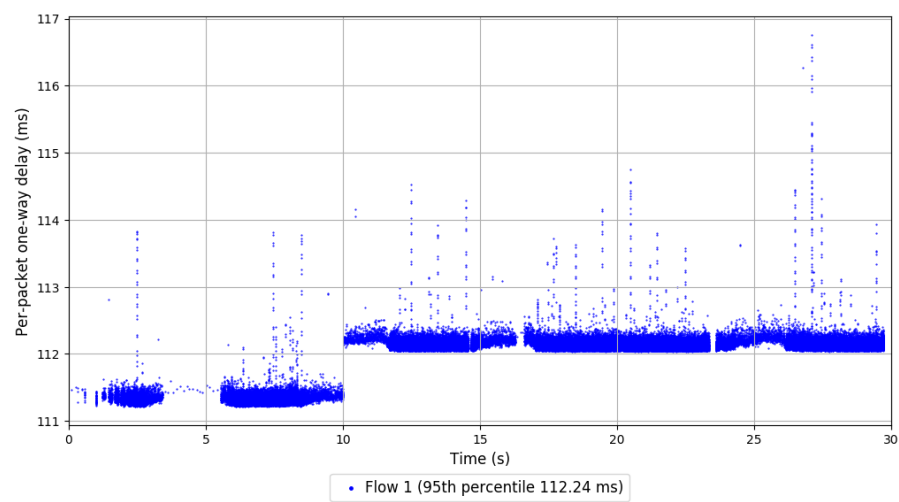
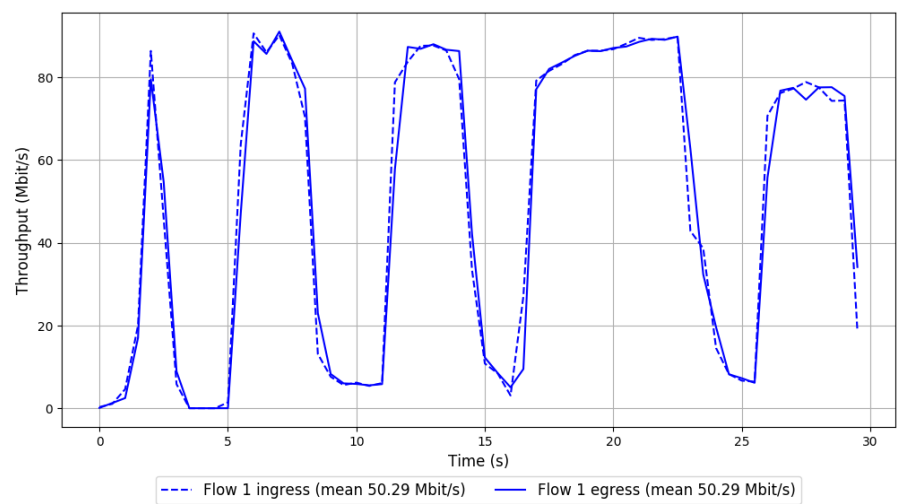
-- Flow 1:

Average throughput: 50.29 Mbit/s

95th percentile per-packet one-way delay: 112.237 ms

Loss rate: 0.00%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-03-20 10:47:49

End at: 2018-03-20 10:48:19

Below is generated by plot.py at 2018-03-20 12:38:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.67 Mbit/s

95th percentile per-packet one-way delay: 112.261 ms

Loss rate: 0.01%

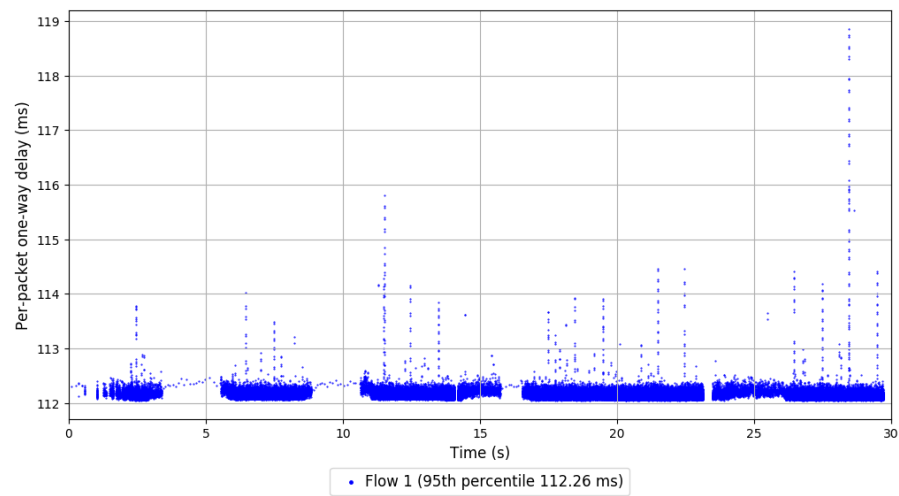
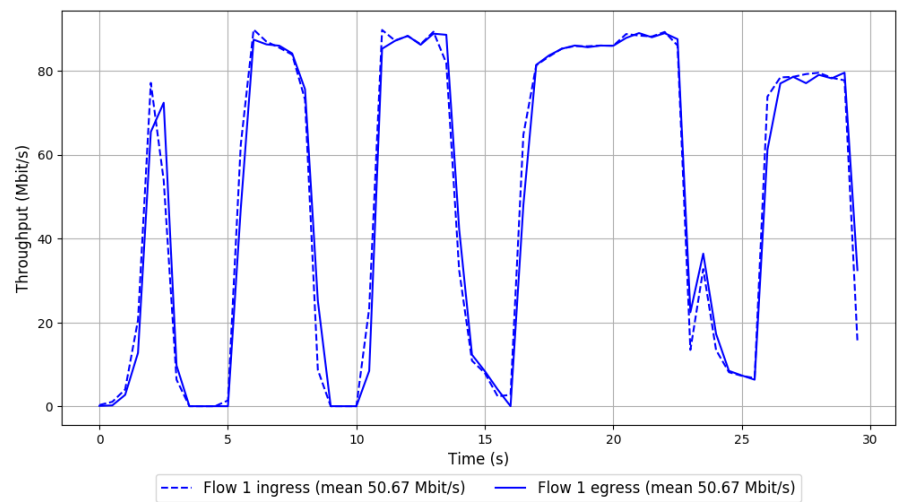
-- Flow 1:

Average throughput: 50.67 Mbit/s

95th percentile per-packet one-way delay: 112.261 ms

Loss rate: 0.01%

Run 10: Report of QUIC Cubic — Data Link

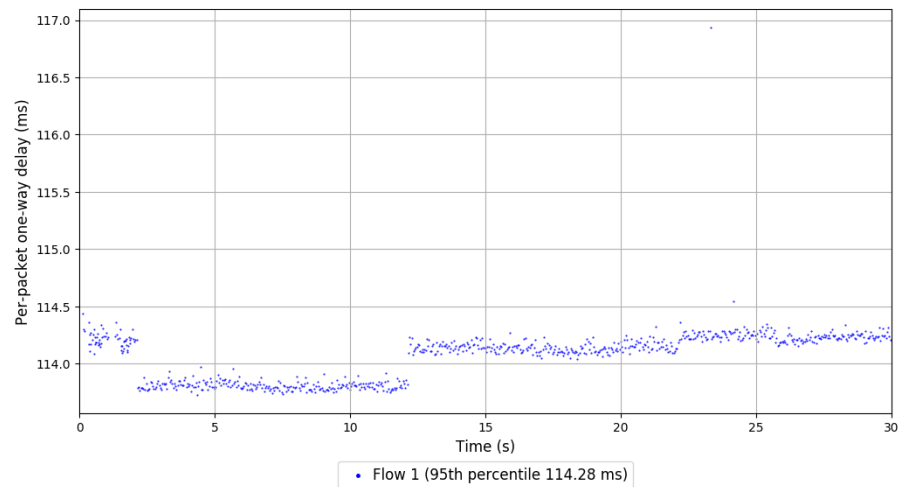
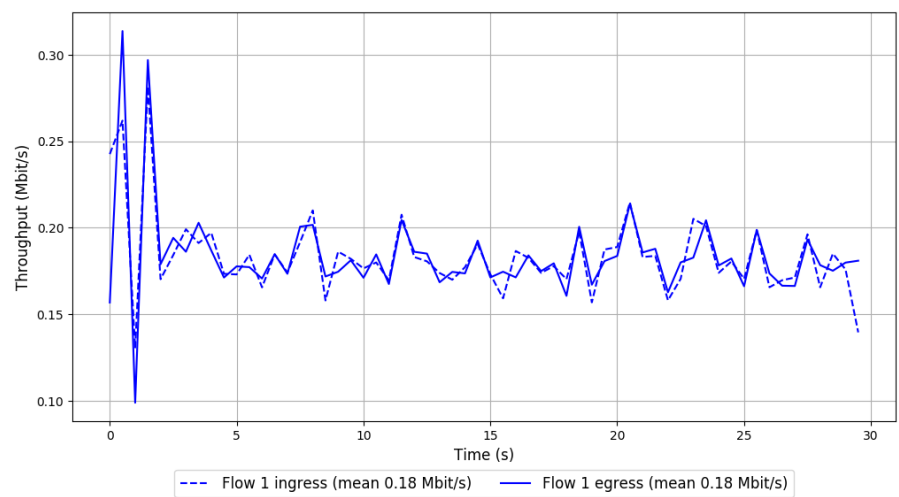


```
Run 1: Statistics of SCReAM

Start at: 2018-03-20 08:25:01
End at: 2018-03-20 08:25:31

# Below is generated by plot.py at 2018-03-20 12:38:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 114.284 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 114.284 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2018-03-20 08:40:36

End at: 2018-03-20 08:41:06

Below is generated by plot.py at 2018-03-20 12:38:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 113.133 ms

Loss rate: 0.00%

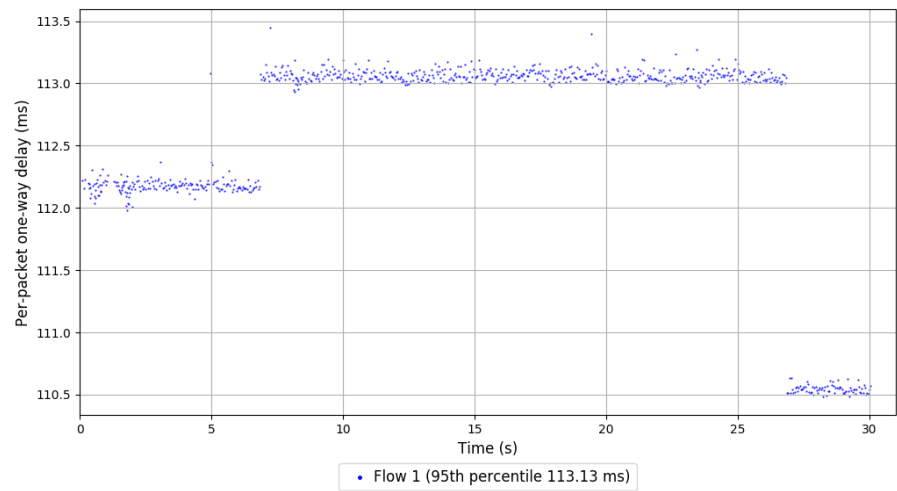
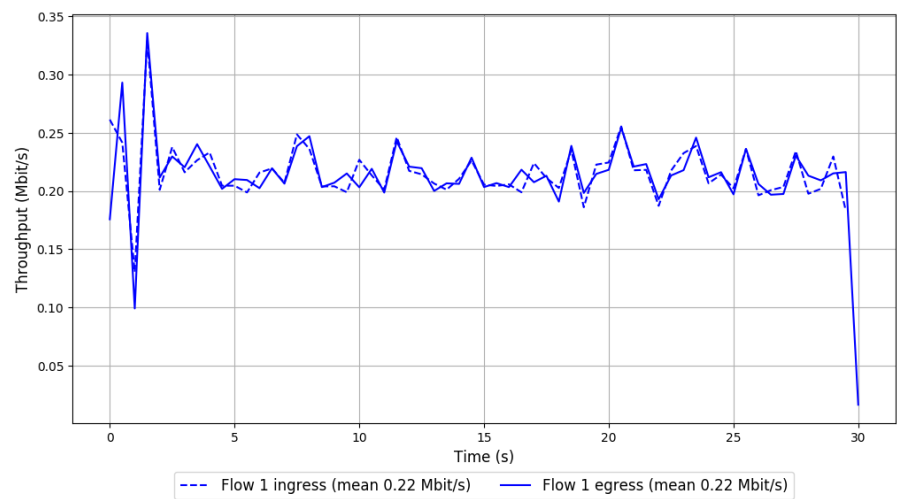
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 113.133 ms

Loss rate: 0.00%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-03-20 08:55:49

End at: 2018-03-20 08:56:19

Below is generated by plot.py at 2018-03-20 12:38:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 112.759 ms

Loss rate: 0.00%

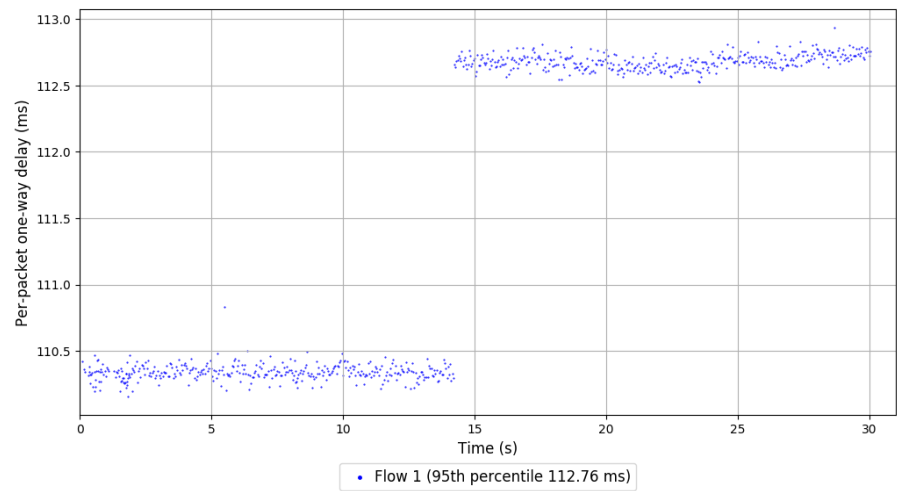
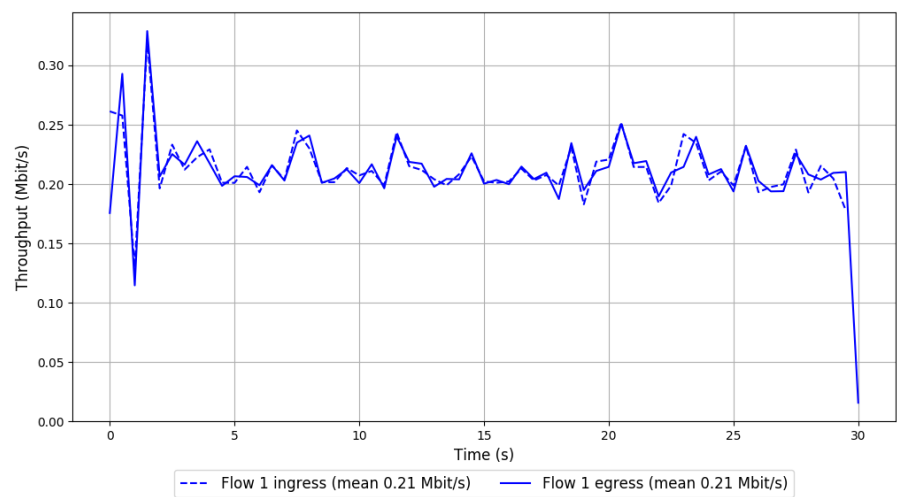
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 112.759 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2018-03-20 09:10:56

End at: 2018-03-20 09:11:26

Below is generated by plot.py at 2018-03-20 12:38:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.11 Mbit/s

95th percentile per-packet one-way delay: 113.225 ms

Loss rate: 0.00%

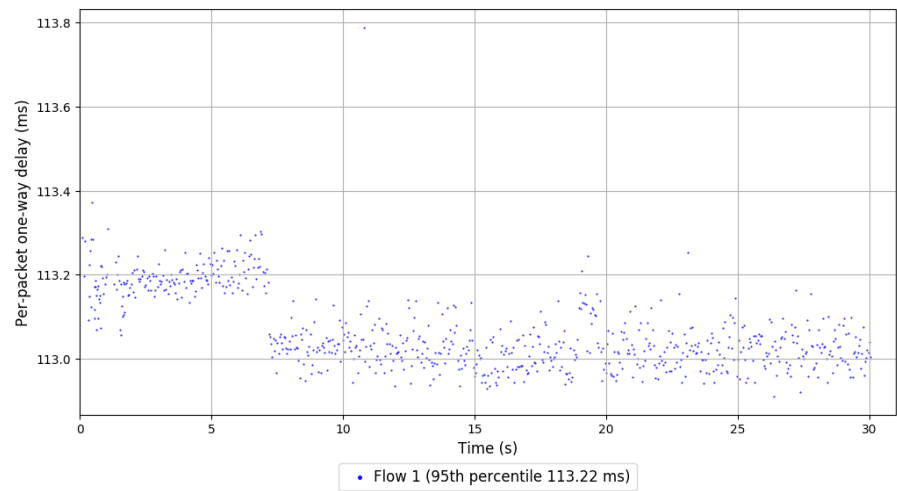
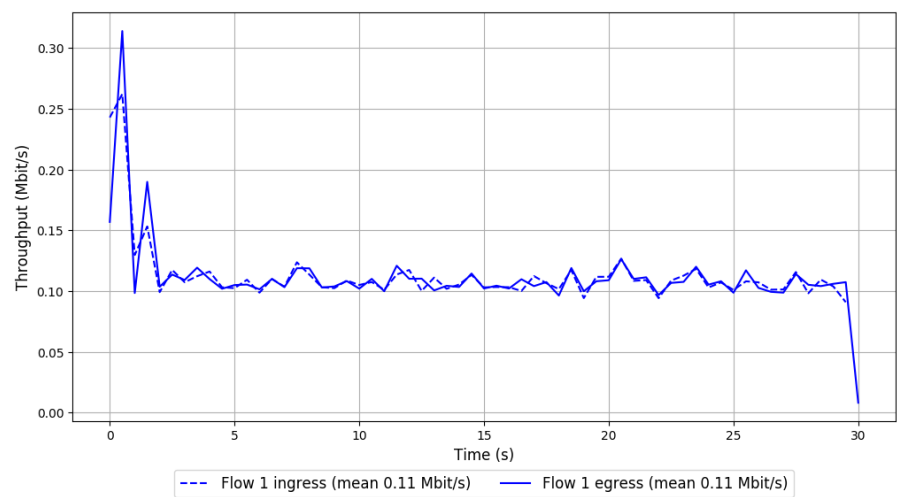
-- Flow 1:

Average throughput: 0.11 Mbit/s

95th percentile per-packet one-way delay: 113.225 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-03-20 09:26:17

End at: 2018-03-20 09:26:47

Below is generated by plot.py at 2018-03-20 12:38:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 112.615 ms

Loss rate: 0.00%

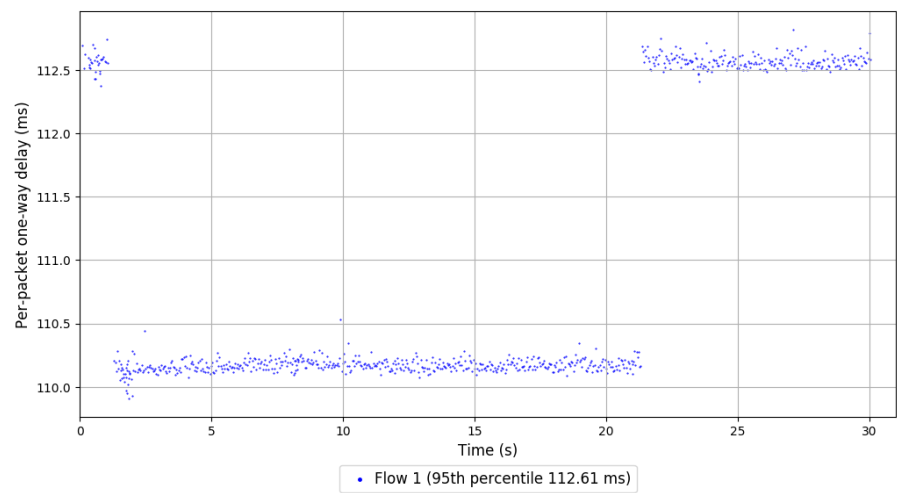
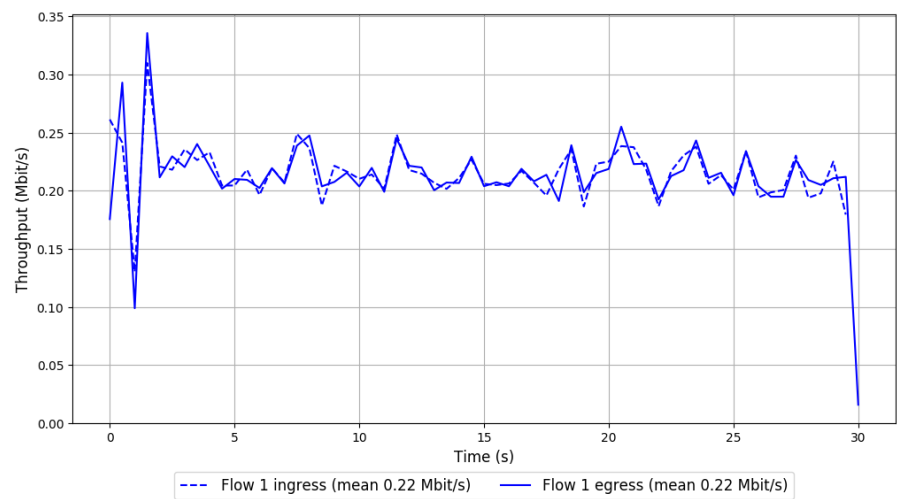
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 112.615 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-03-20 09:41:57

End at: 2018-03-20 09:42:28

Below is generated by plot.py at 2018-03-20 12:38:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 110.951 ms

Loss rate: 0.00%

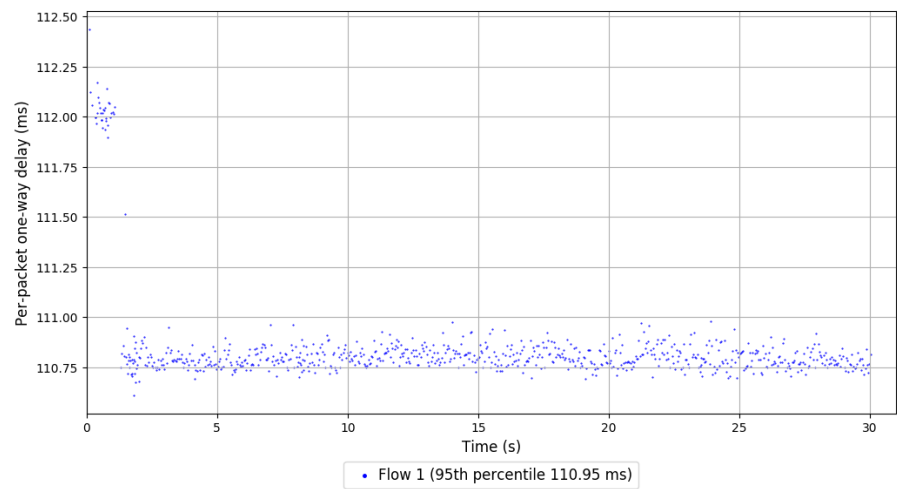
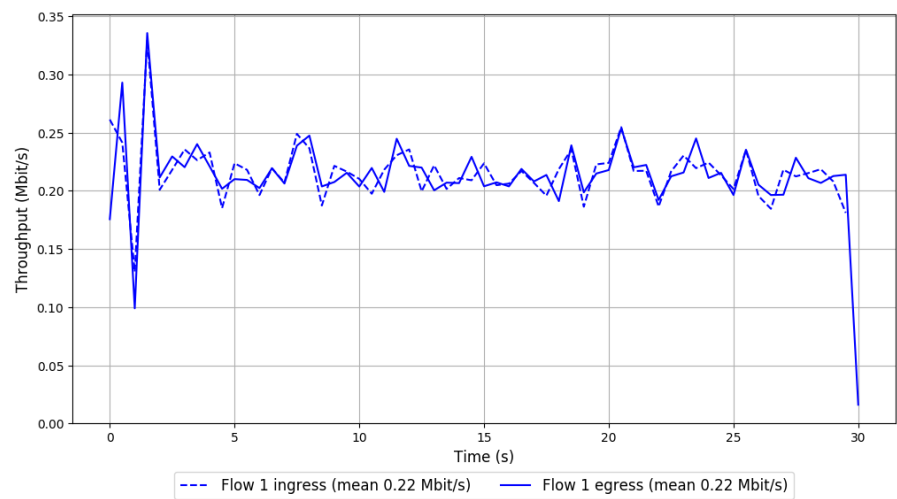
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 110.951 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2018-03-20 09:57:31

End at: 2018-03-20 09:58:01

Below is generated by plot.py at 2018-03-20 12:38:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 112.440 ms

Loss rate: 0.00%

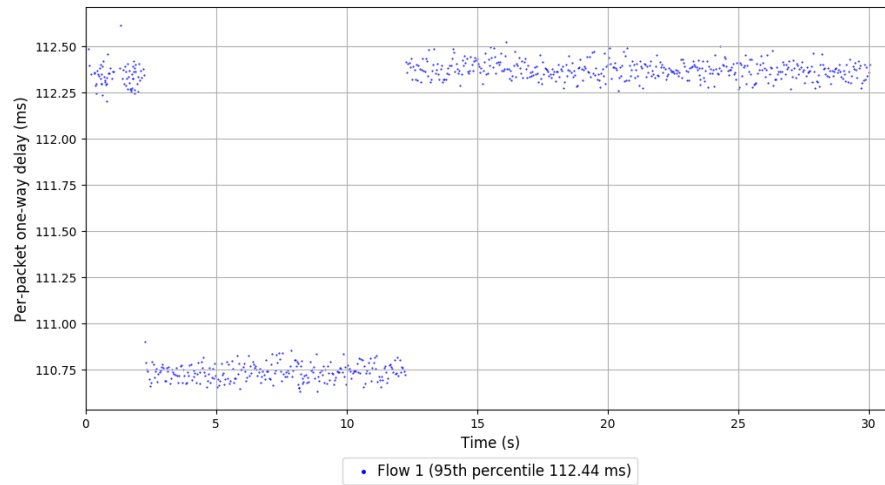
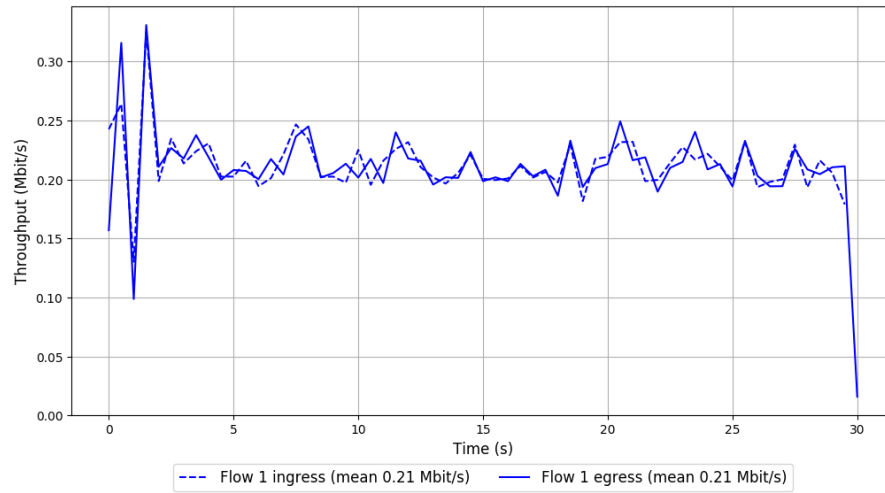
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 112.440 ms

Loss rate: 0.00%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-03-20 10:12:56

End at: 2018-03-20 10:13:26

Below is generated by plot.py at 2018-03-20 12:38:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 112.432 ms

Loss rate: 0.00%

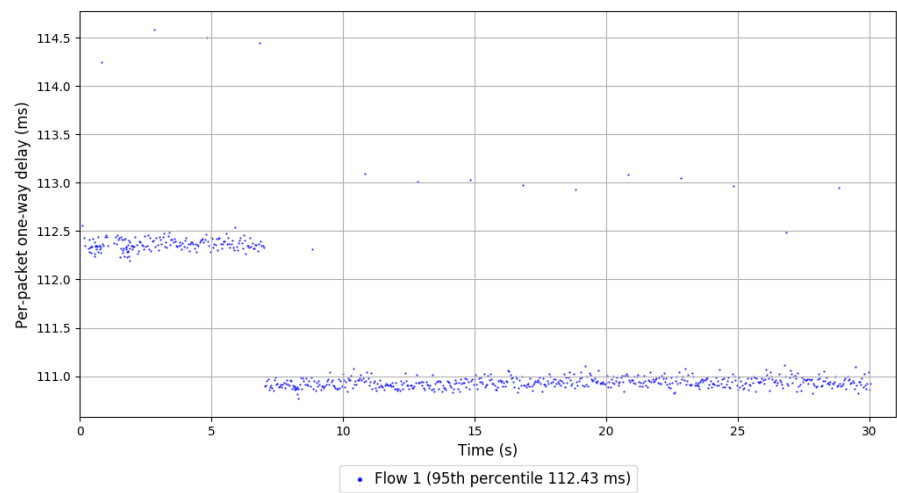
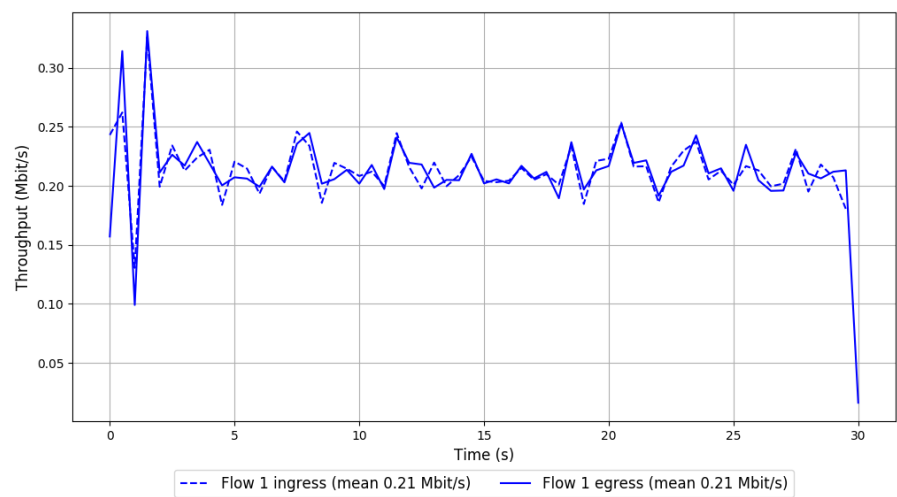
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 112.432 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-03-20 10:28:11

End at: 2018-03-20 10:28:41

Below is generated by plot.py at 2018-03-20 12:38:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 109.642 ms

Loss rate: 0.00%

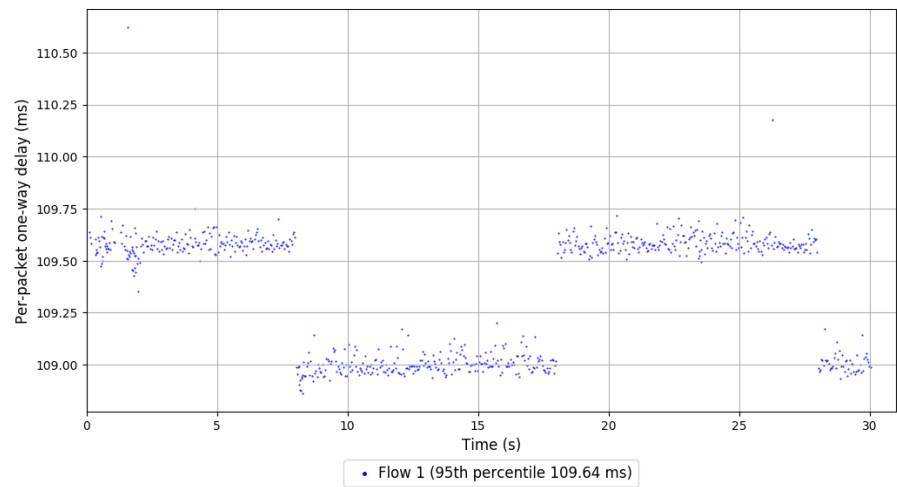
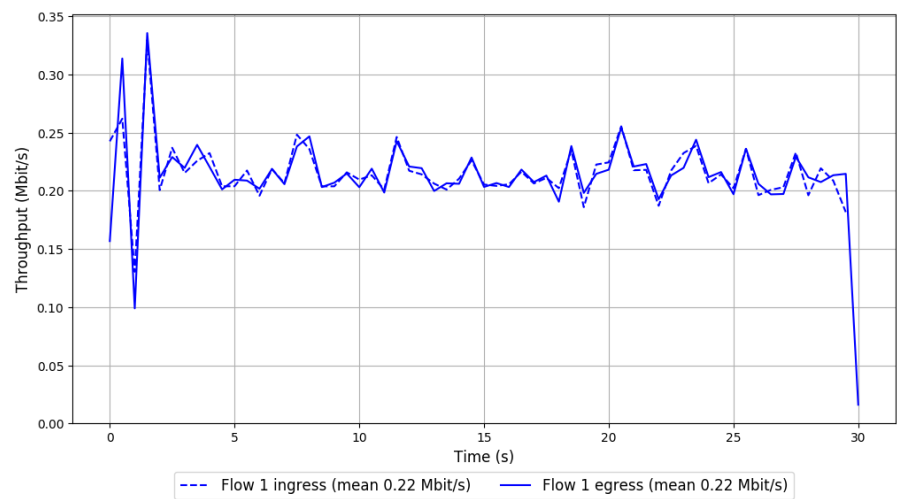
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 109.642 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-03-20 10:43:37

End at: 2018-03-20 10:44:07

Below is generated by plot.py at 2018-03-20 12:38:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 112.422 ms

Loss rate: 0.00%

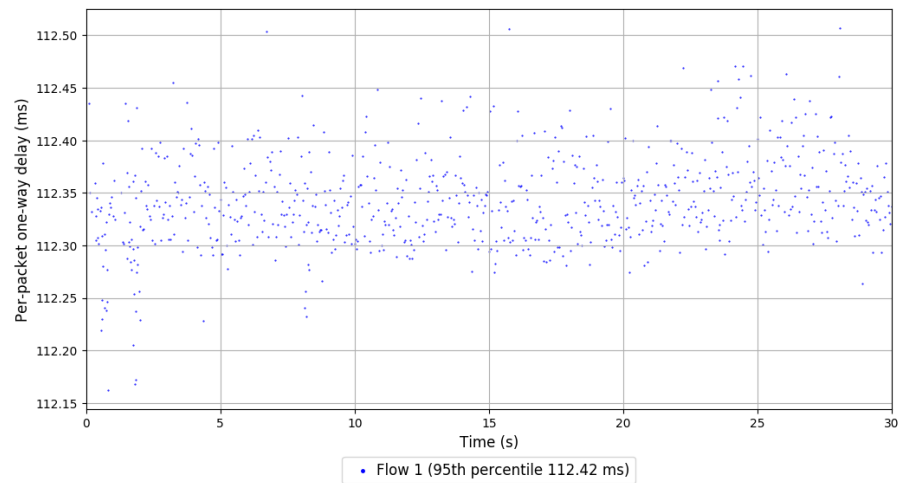
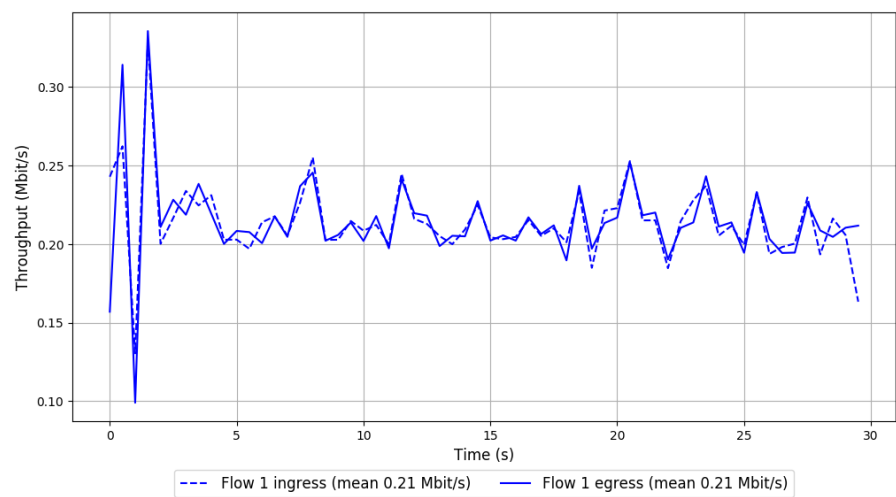
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 112.422 ms

Loss rate: 0.00%

Run 10: Report of SCReAM — Data Link

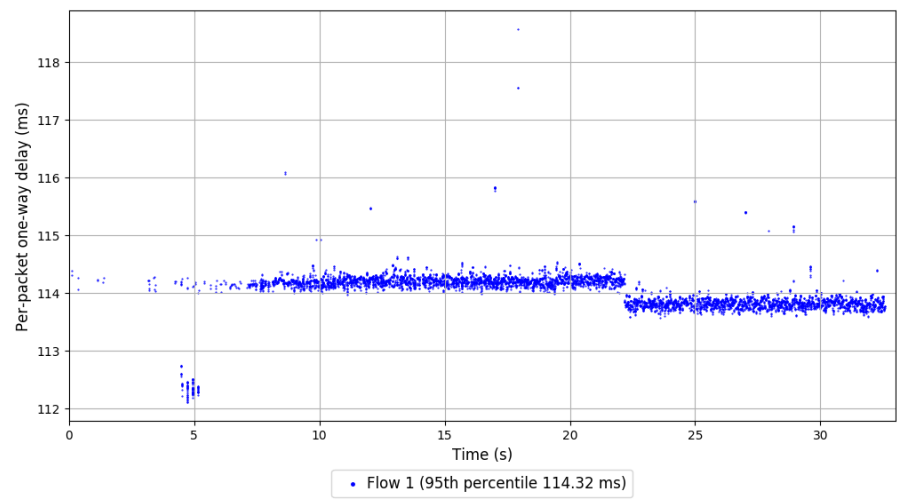
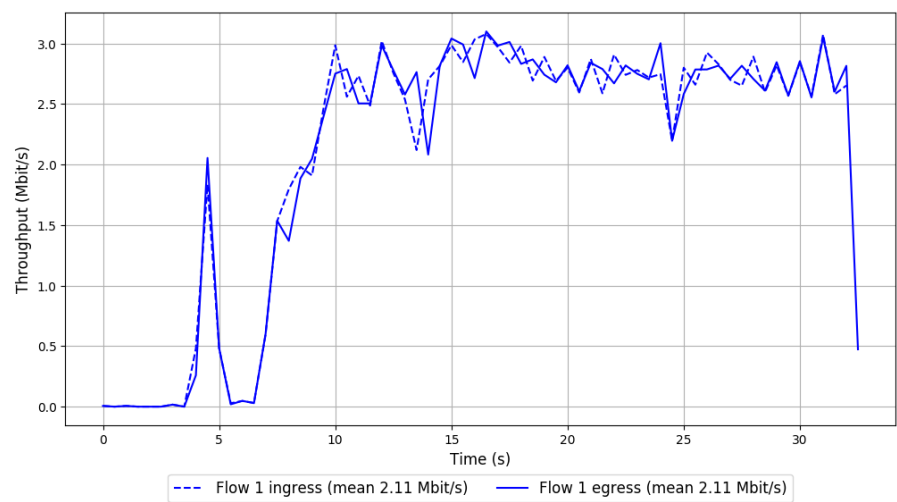


```
Run 1: Statistics of WebRTC media

Start at: 2018-03-20 08:23:34
End at: 2018-03-20 08:24:04

# Below is generated by plot.py at 2018-03-20 12:38:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.11 Mbit/s
95th percentile per-packet one-way delay: 114.316 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.11 Mbit/s
95th percentile per-packet one-way delay: 114.316 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-03-20 08:39:07

End at: 2018-03-20 08:39:37

Below is generated by plot.py at 2018-03-20 12:38:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 112.688 ms

Loss rate: 0.00%

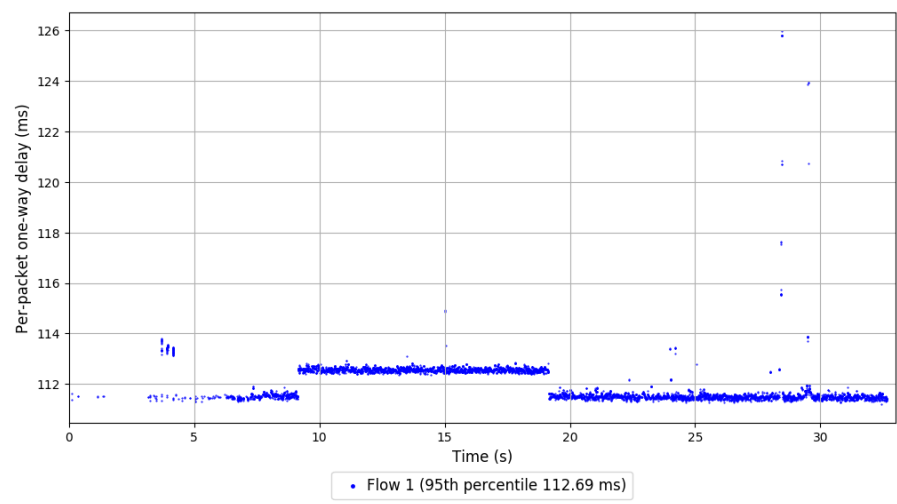
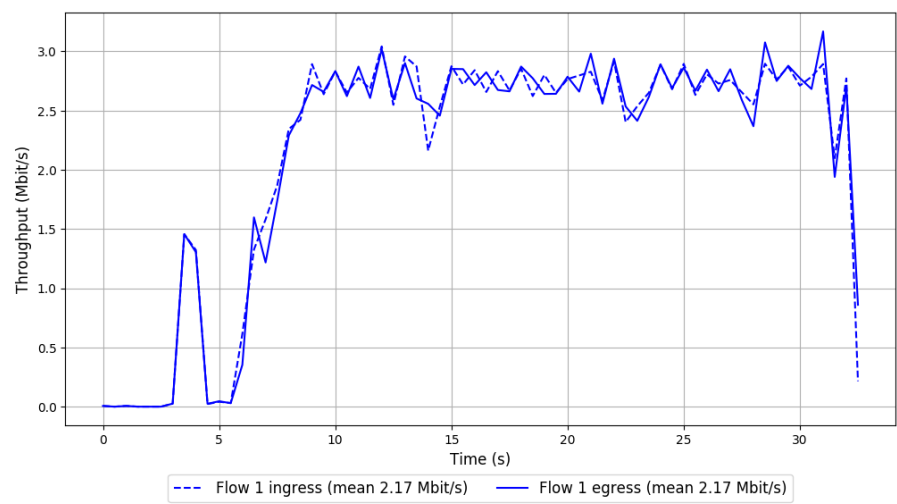
-- Flow 1:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 112.688 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-03-20 08:54:19

End at: 2018-03-20 08:54:49

Below is generated by plot.py at 2018-03-20 12:38:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 112.219 ms

Loss rate: 0.00%

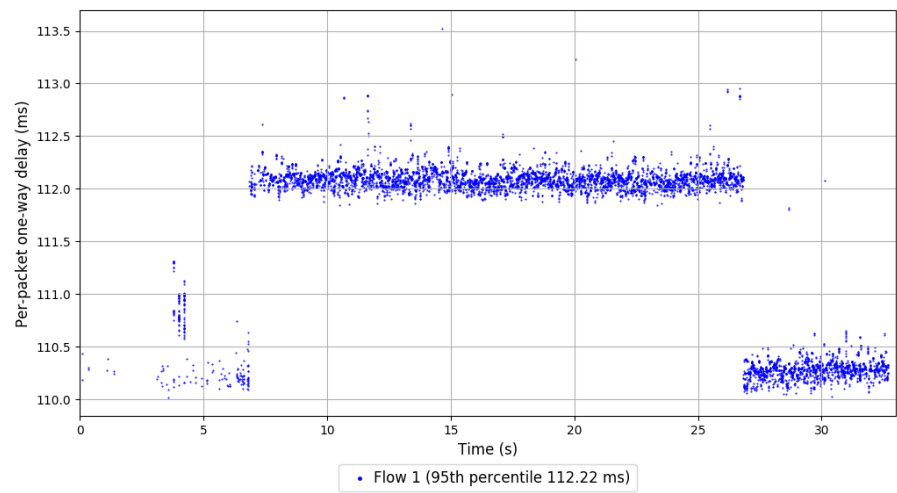
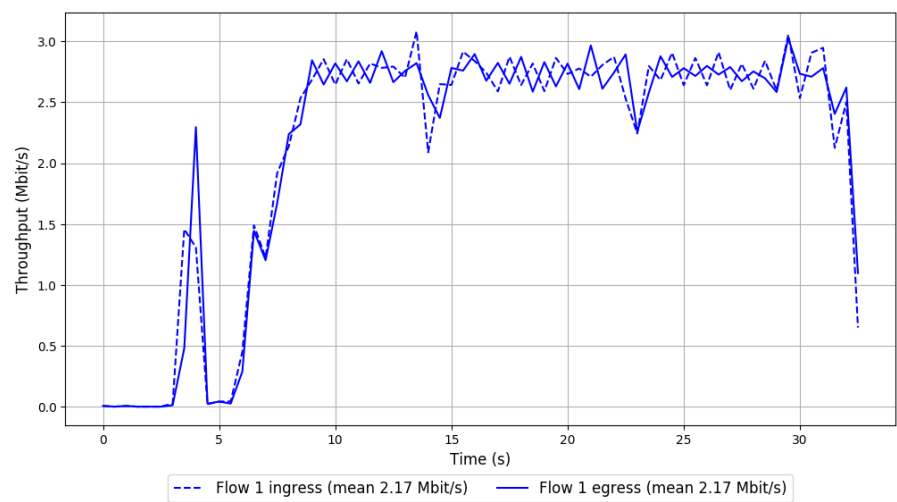
-- Flow 1:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 112.219 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-03-20 09:09:31

End at: 2018-03-20 09:10:01

Below is generated by plot.py at 2018-03-20 12:38:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 112.927 ms

Loss rate: 0.00%

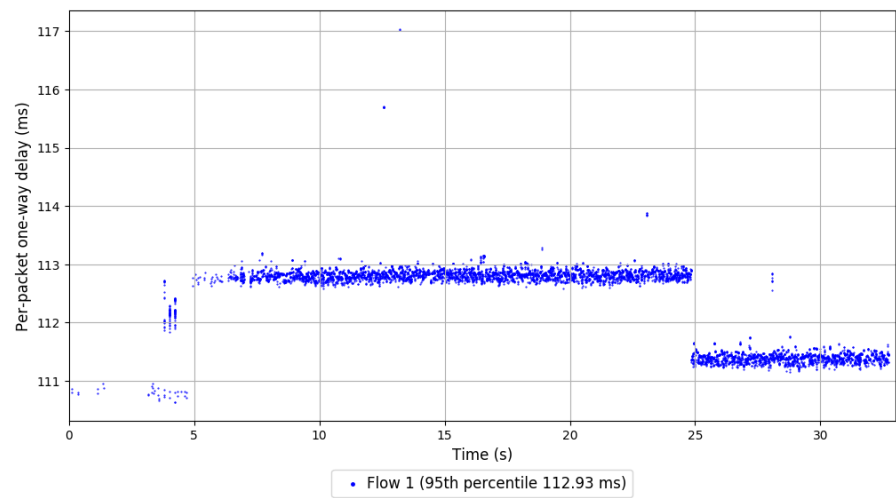
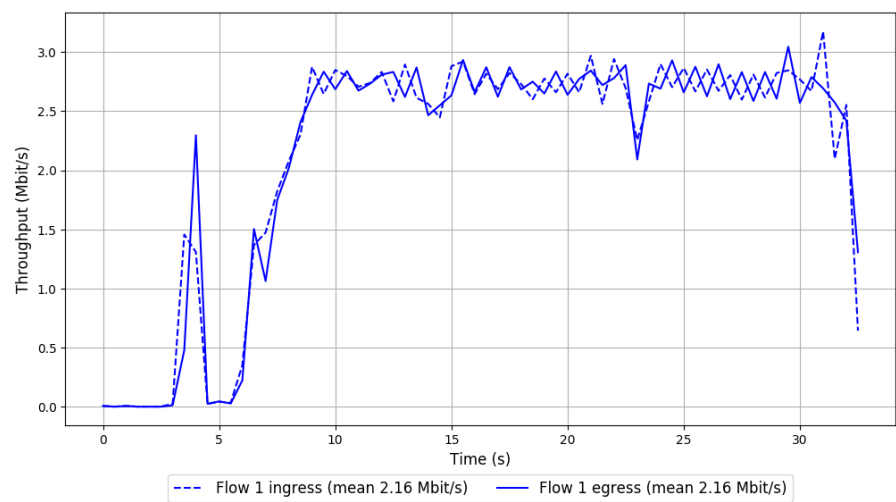
-- Flow 1:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 112.927 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-03-20 09:24:48

End at: 2018-03-20 09:25:18

Below is generated by plot.py at 2018-03-20 12:38:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 112.731 ms

Loss rate: 0.00%

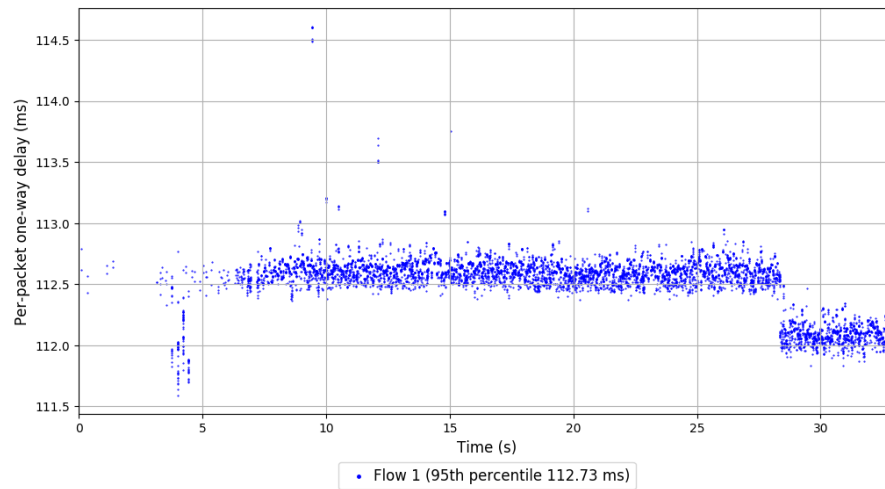
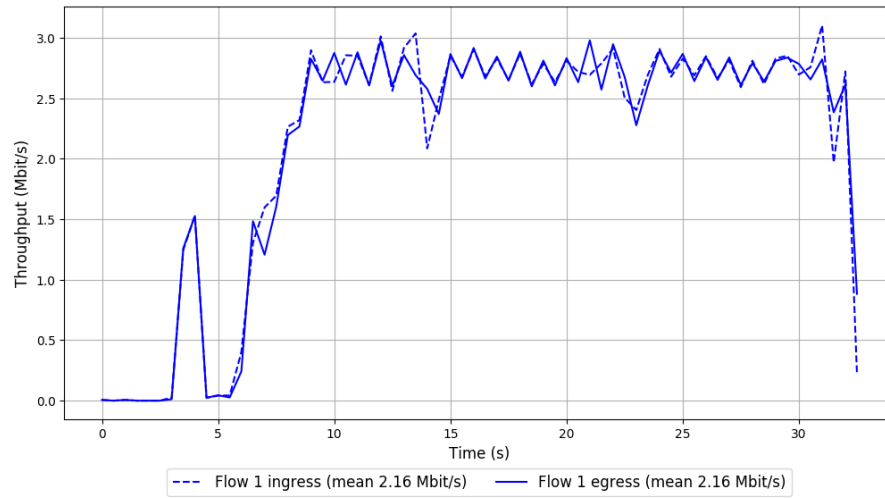
-- Flow 1:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 112.731 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-03-20 09:40:28

End at: 2018-03-20 09:40:58

Below is generated by plot.py at 2018-03-20 12:38:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 112.106 ms

Loss rate: 0.00%

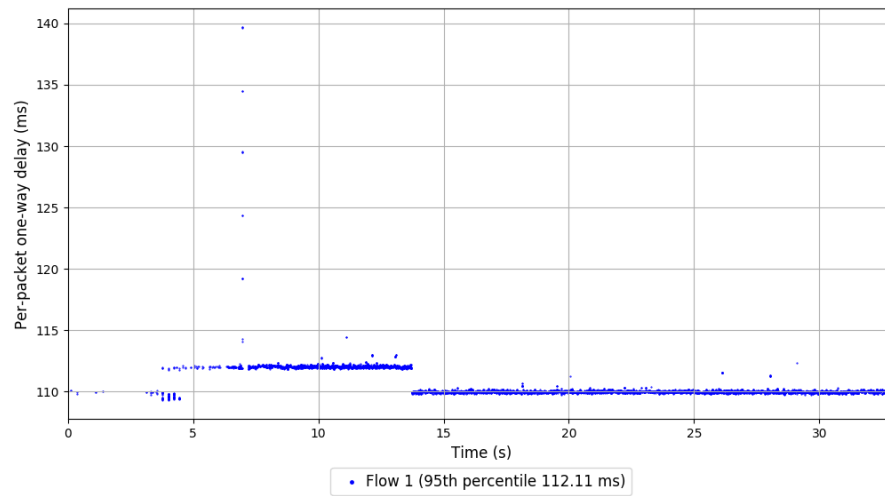
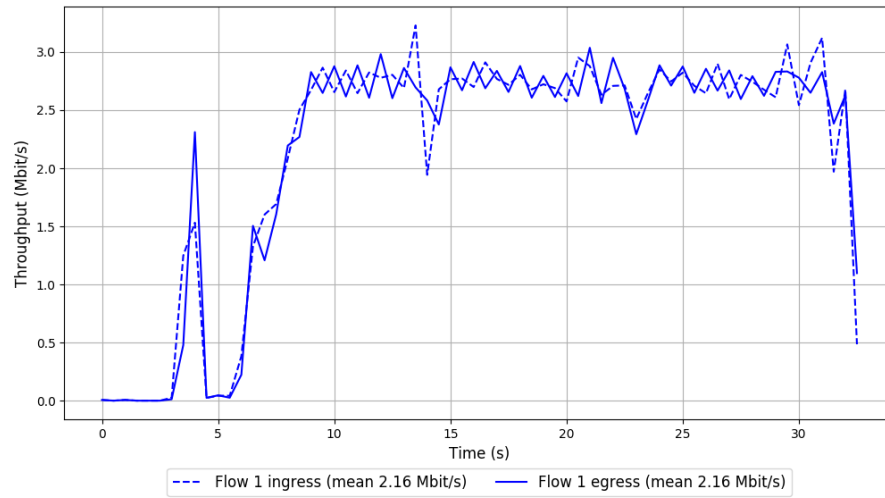
-- Flow 1:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 112.106 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-03-20 09:56:03

End at: 2018-03-20 09:56:33

Below is generated by plot.py at 2018-03-20 12:38:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 111.014 ms

Loss rate: 0.00%

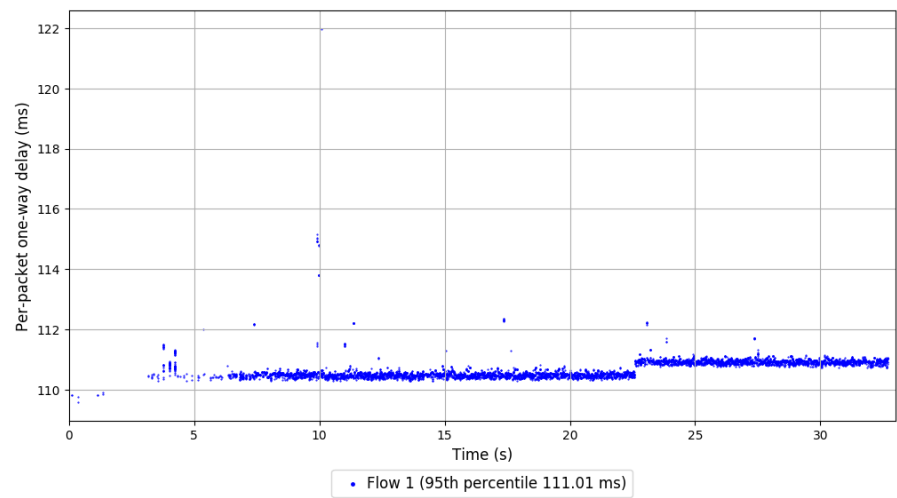
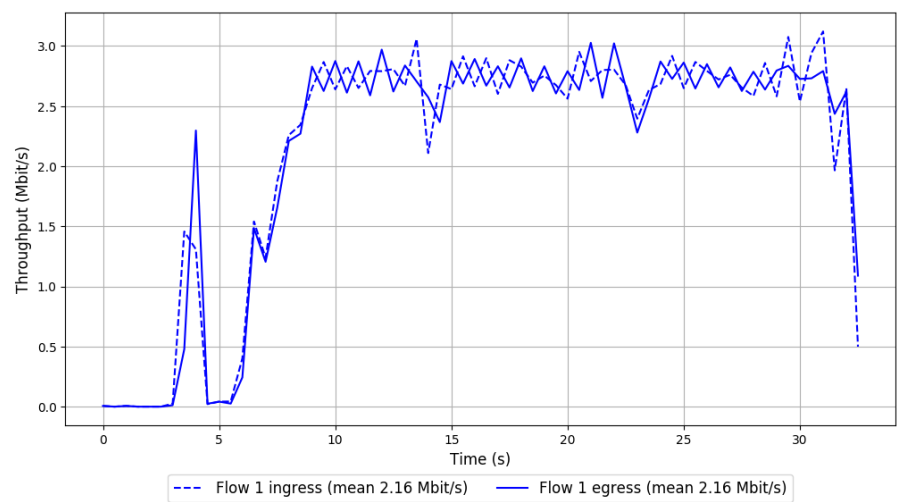
-- Flow 1:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 111.014 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-03-20 10:11:27

End at: 2018-03-20 10:11:57

Below is generated by plot.py at 2018-03-20 12:38:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 112.816 ms

Loss rate: 0.00%

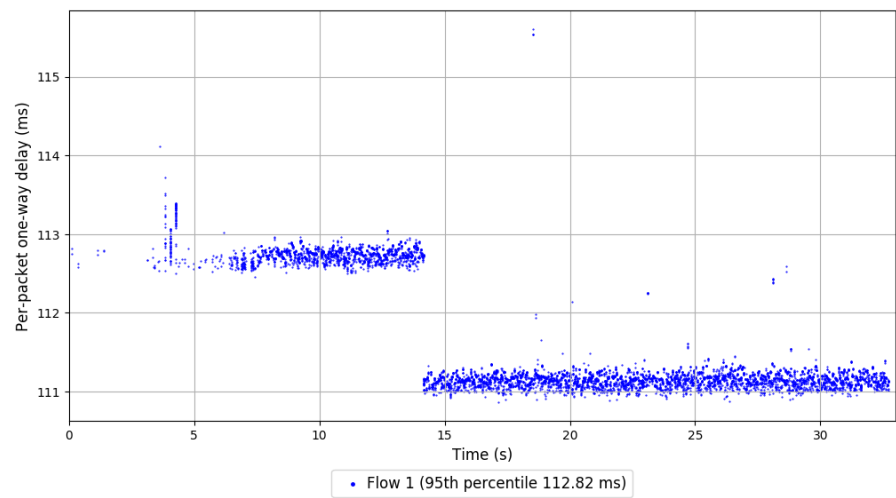
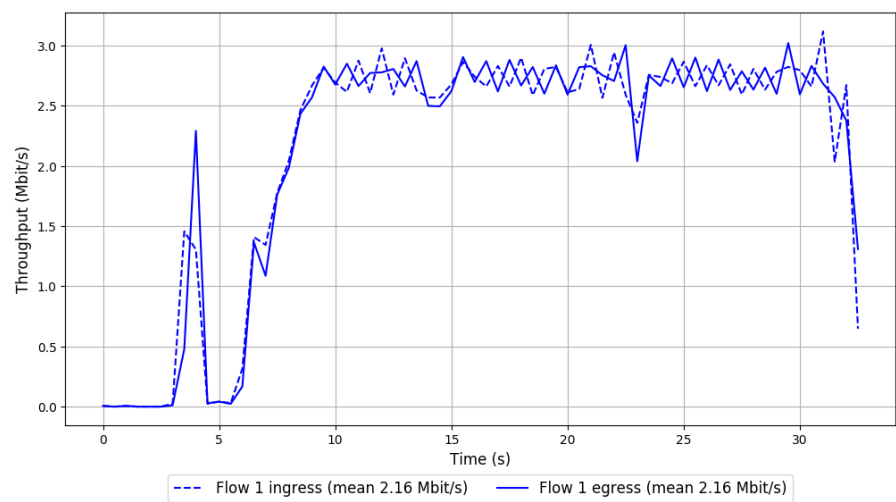
-- Flow 1:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 112.816 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-03-20 10:26:41

End at: 2018-03-20 10:27:11

Below is generated by plot.py at 2018-03-20 12:38:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 112.601 ms

Loss rate: 0.00%

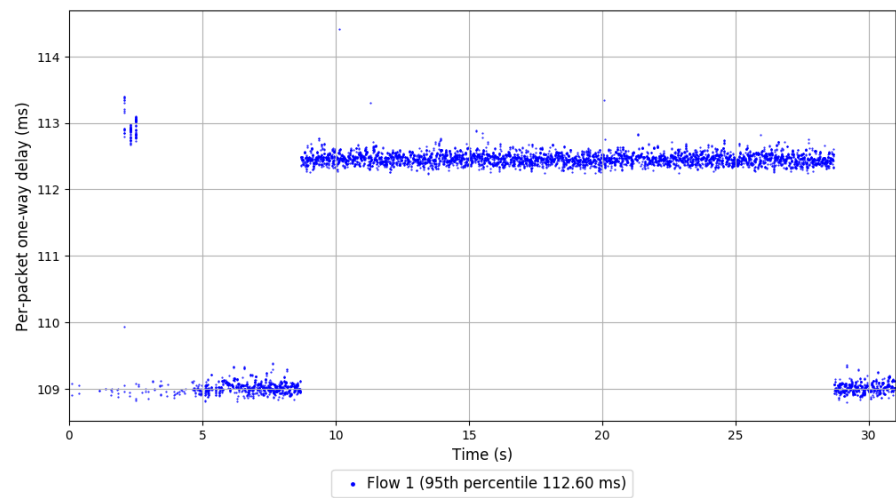
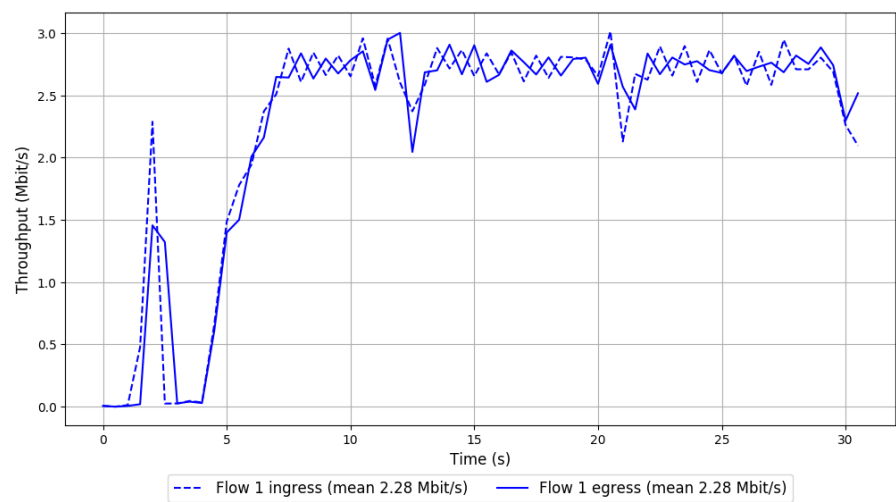
-- Flow 1:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 112.601 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-03-20 10:42:08

End at: 2018-03-20 10:42:38

Below is generated by plot.py at 2018-03-20 12:38:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.22 Mbit/s

95th percentile per-packet one-way delay: 112.431 ms

Loss rate: 0.00%

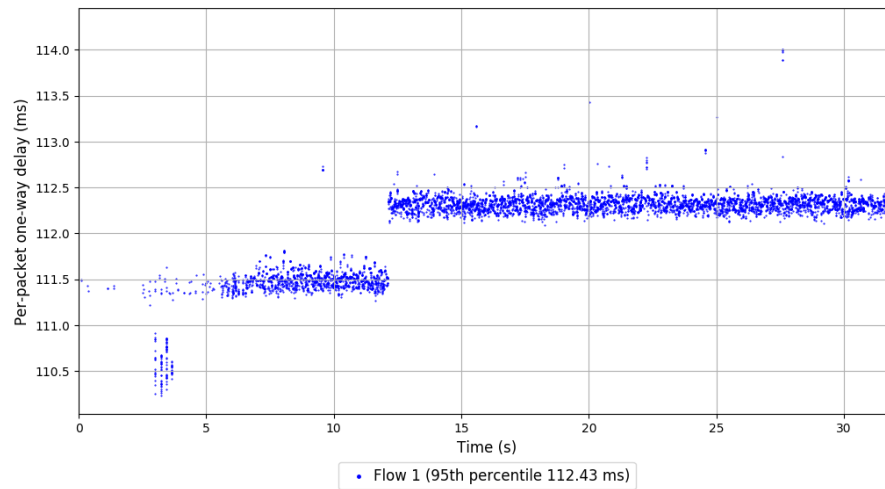
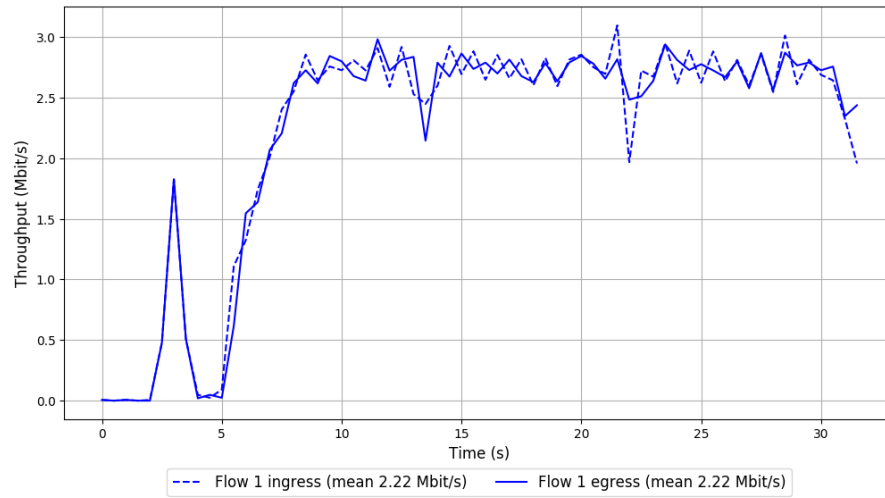
-- Flow 1:

Average throughput: 2.22 Mbit/s

95th percentile per-packet one-way delay: 112.431 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2018-03-20 08:25:41

End at: 2018-03-20 08:26:11

Below is generated by plot.py at 2018-03-20 12:38:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.57 Mbit/s

95th percentile per-packet one-way delay: 114.680 ms

Loss rate: 0.00%

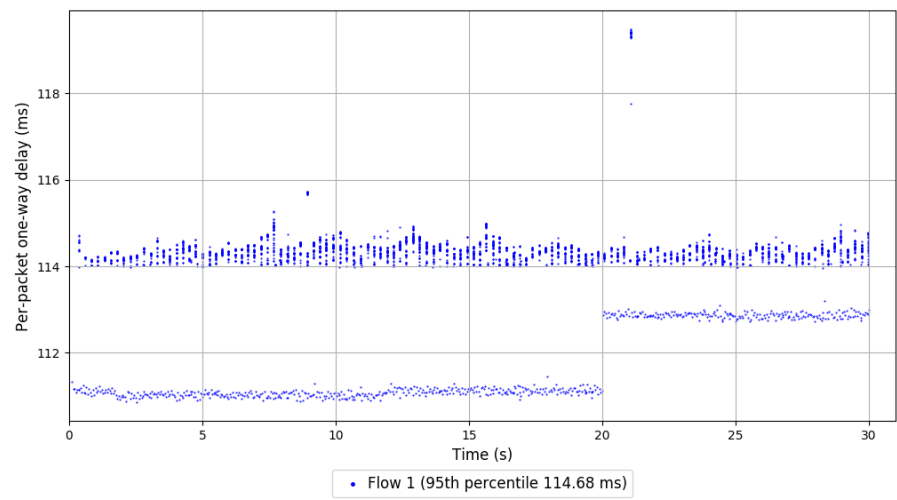
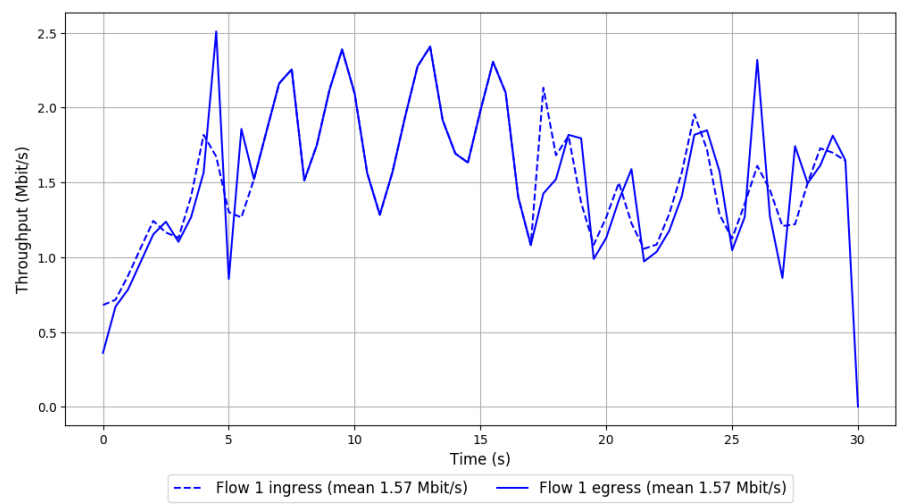
-- Flow 1:

Average throughput: 1.57 Mbit/s

95th percentile per-packet one-way delay: 114.680 ms

Loss rate: 0.00%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-03-20 08:41:17

End at: 2018-03-20 08:41:47

Below is generated by plot.py at 2018-03-20 12:38:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.98 Mbit/s

95th percentile per-packet one-way delay: 113.438 ms

Loss rate: 0.00%

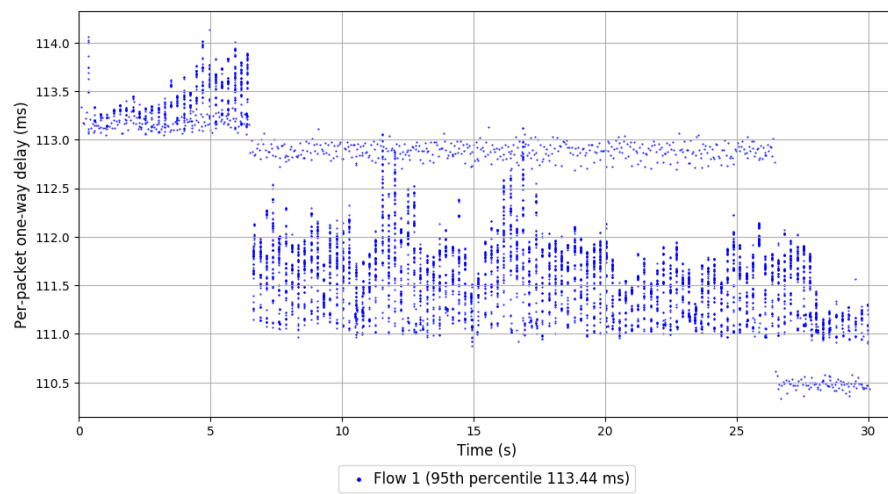
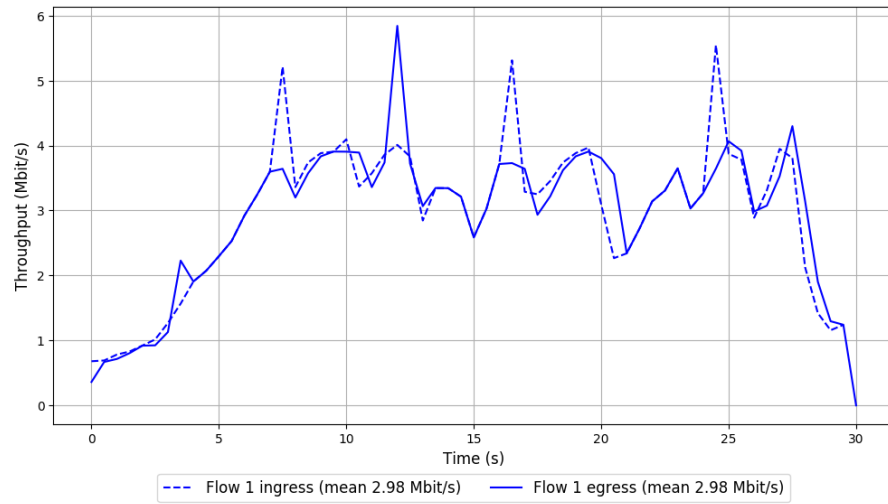
-- Flow 1:

Average throughput: 2.98 Mbit/s

95th percentile per-packet one-way delay: 113.438 ms

Loss rate: 0.00%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-03-20 08:56:29

End at: 2018-03-20 08:56:59

Below is generated by plot.py at 2018-03-20 12:38:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.03 Mbit/s

95th percentile per-packet one-way delay: 113.357 ms

Loss rate: 0.00%

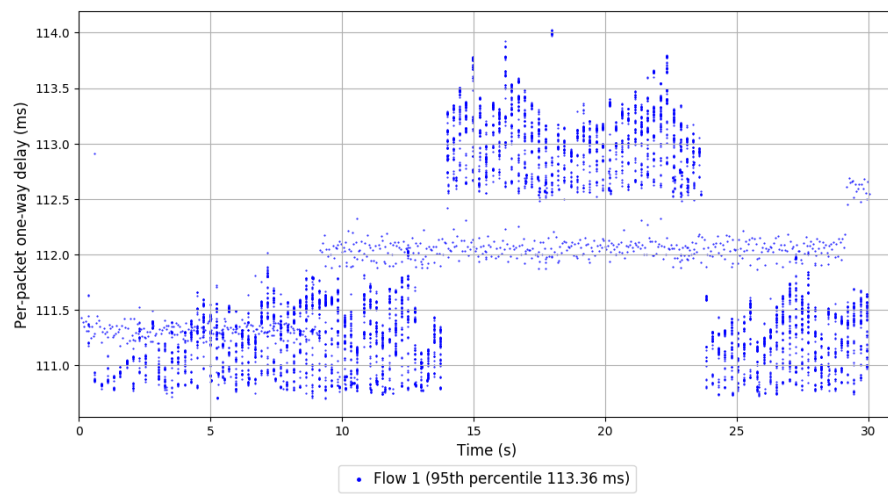
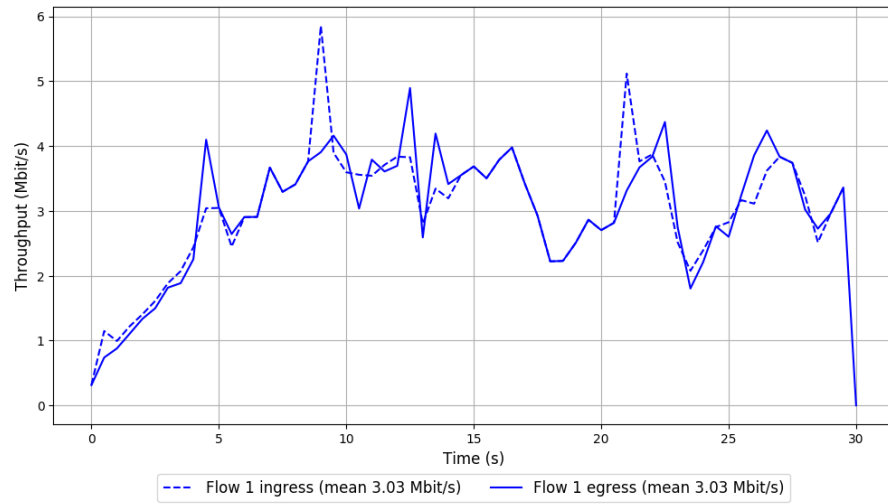
-- Flow 1:

Average throughput: 3.03 Mbit/s

95th percentile per-packet one-way delay: 113.357 ms

Loss rate: 0.00%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-03-20 09:11:36

End at: 2018-03-20 09:12:07

Below is generated by plot.py at 2018-03-20 12:38:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 113.116 ms

Loss rate: 0.00%

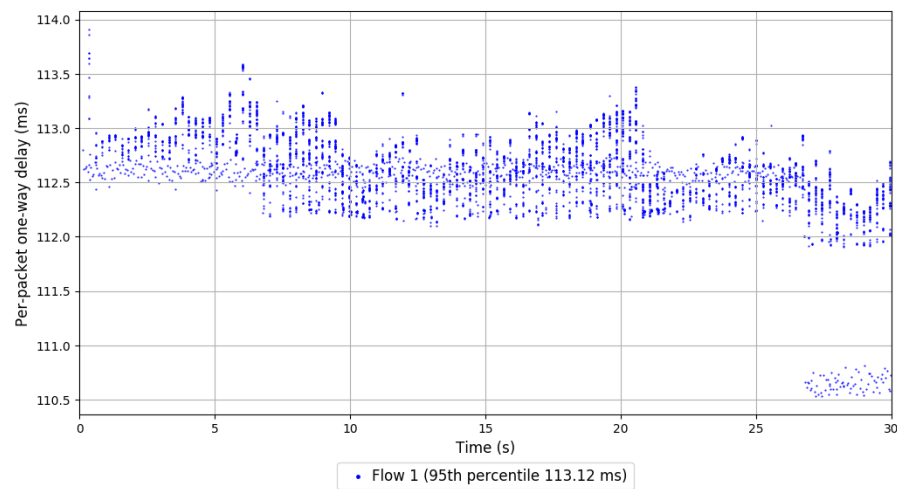
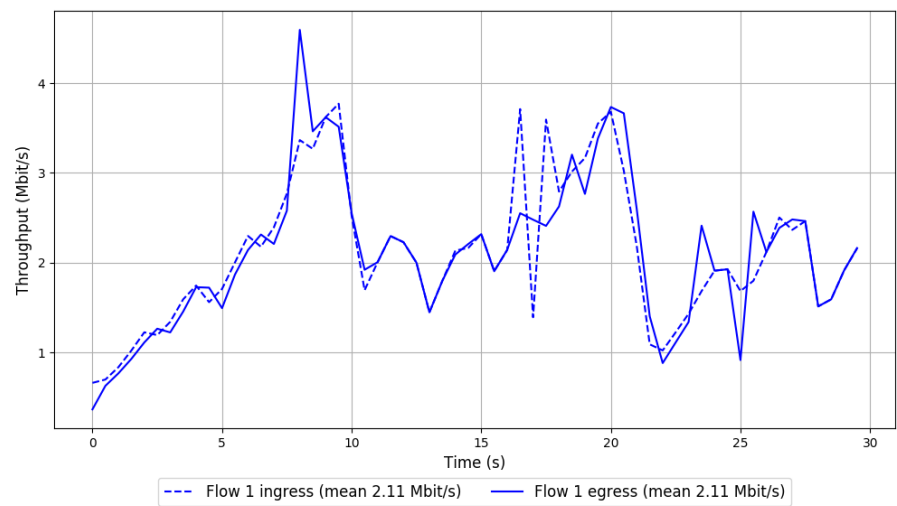
-- Flow 1:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 113.116 ms

Loss rate: 0.00%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-03-20 09:26:58

End at: 2018-03-20 09:27:28

Below is generated by plot.py at 2018-03-20 12:38:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.36 Mbit/s

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

Loss rate: 0.00%

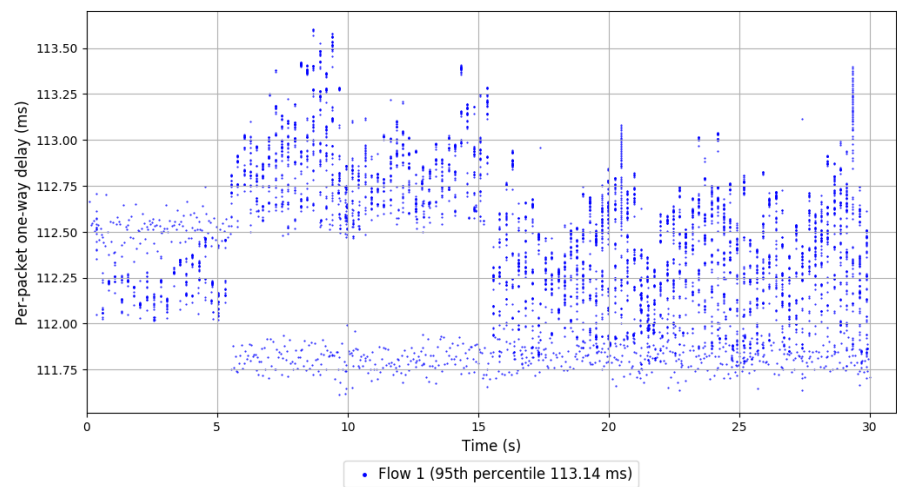
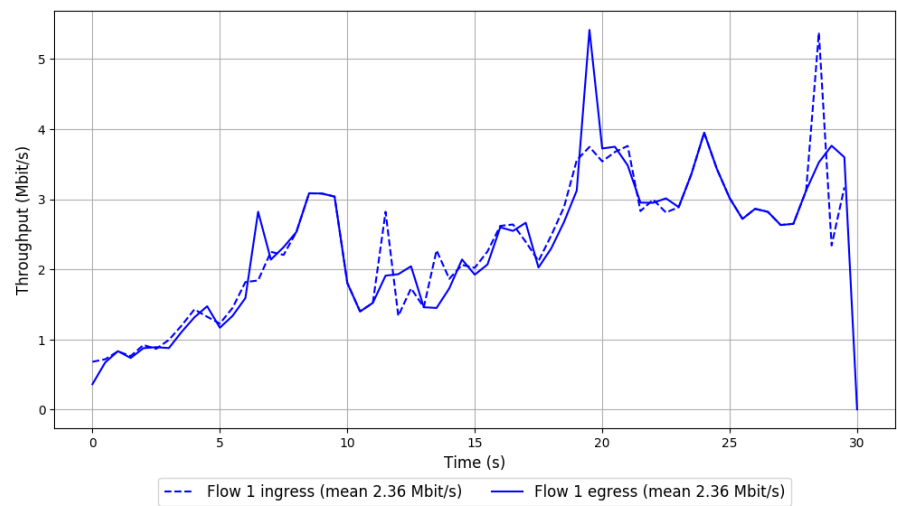
-- Flow 1:

Average throughput: 2.36 Mbit/s

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

Loss rate: 0.00%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-03-20 09:42:38

End at: 2018-03-20 09:43:08

Below is generated by plot.py at 2018-03-20 12:38:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.60 Mbit/s

95th percentile per-packet one-way delay: 112.627 ms

Loss rate: 0.00%

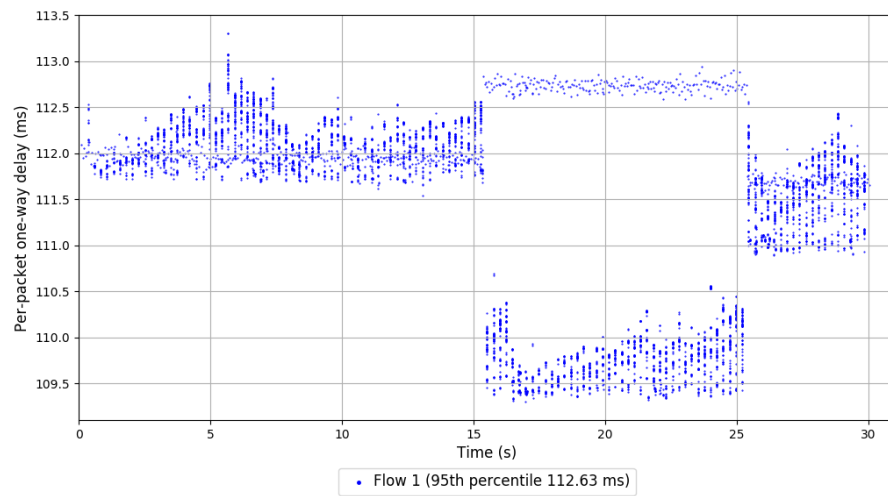
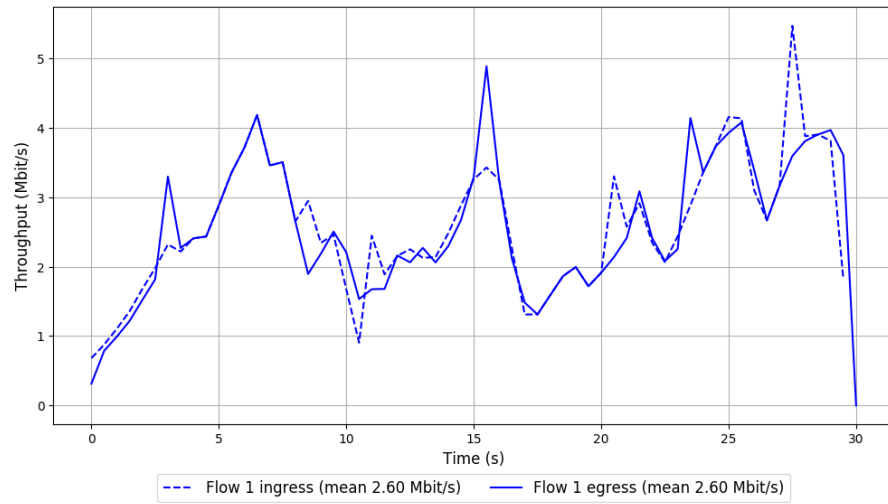
-- Flow 1:

Average throughput: 2.60 Mbit/s

95th percentile per-packet one-way delay: 112.627 ms

Loss rate: 0.00%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-03-20 09:58:11

End at: 2018-03-20 09:58:41

Below is generated by plot.py at 2018-03-20 12:38:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 112.146 ms

Loss rate: 0.00%

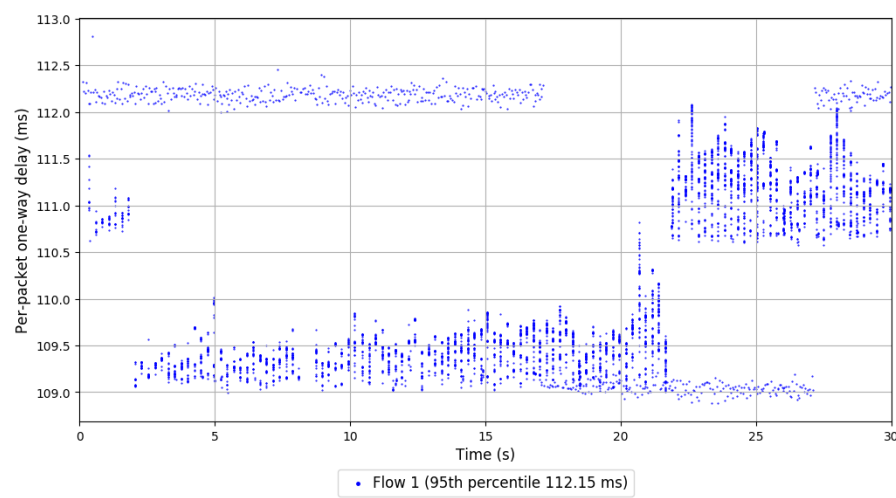
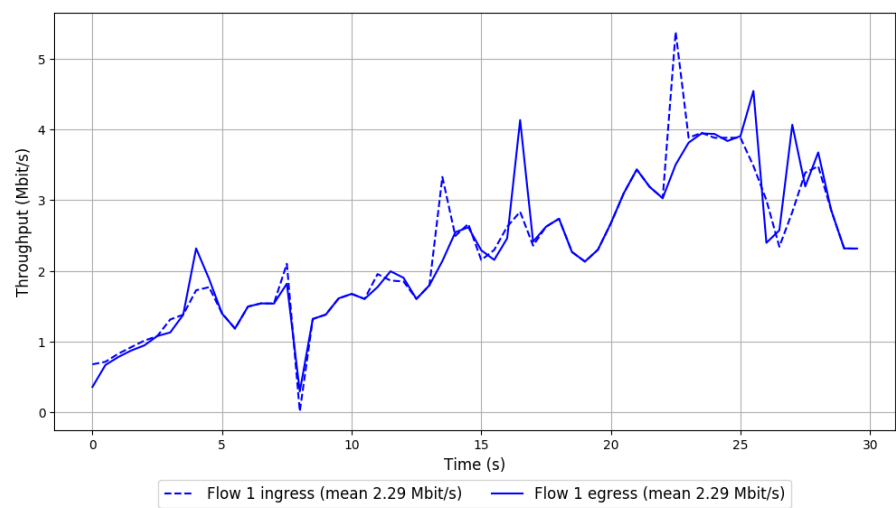
-- Flow 1:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 112.146 ms

Loss rate: 0.00%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-03-20 10:13:37

End at: 2018-03-20 10:14:07

Below is generated by plot.py at 2018-03-20 12:38:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.45 Mbit/s

95th percentile per-packet one-way delay: 113.239 ms

Loss rate: 0.00%

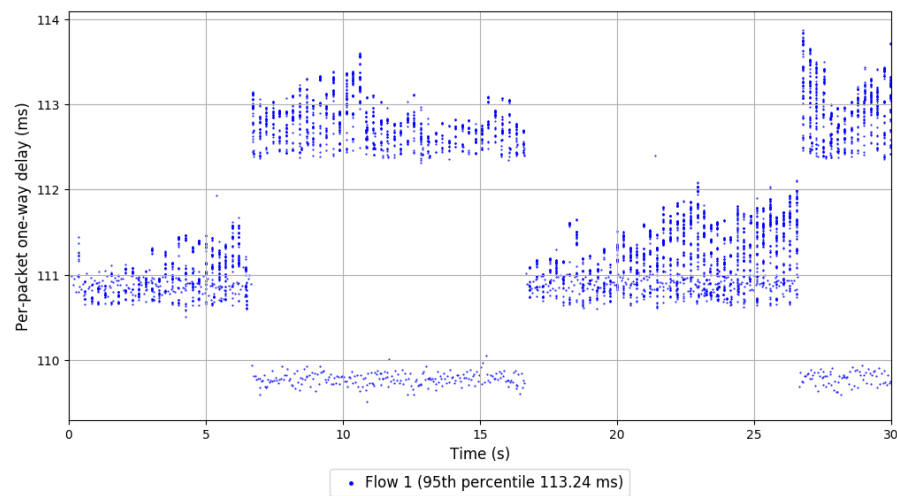
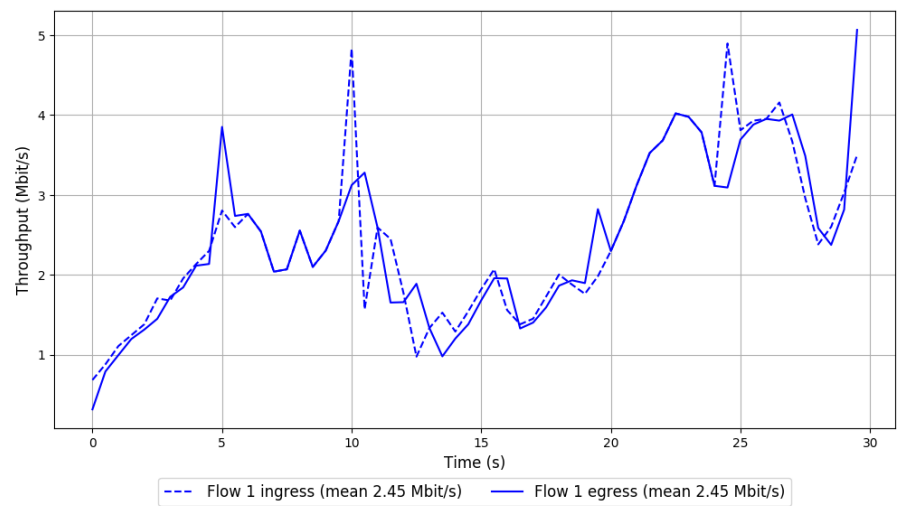
-- Flow 1:

Average throughput: 2.45 Mbit/s

95th percentile per-packet one-way delay: 113.239 ms

Loss rate: 0.00%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-03-20 10:28:51

End at: 2018-03-20 10:29:21

Below is generated by plot.py at 2018-03-20 12:38:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.65 Mbit/s

95th percentile per-packet one-way delay: 113.471 ms

Loss rate: 0.00%

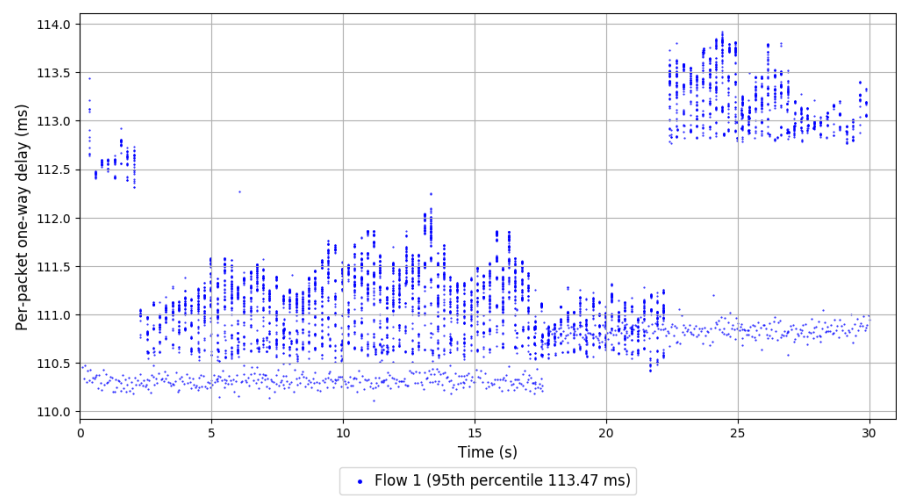
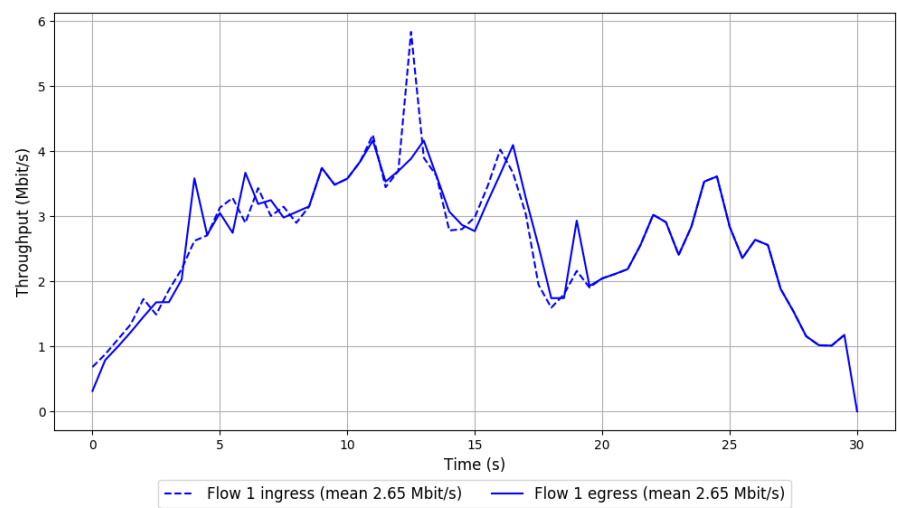
-- Flow 1:

Average throughput: 2.65 Mbit/s

95th percentile per-packet one-way delay: 113.471 ms

Loss rate: 0.00%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-03-20 10:44:17

End at: 2018-03-20 10:44:47

Below is generated by plot.py at 2018-03-20 12:38:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.03 Mbit/s

95th percentile per-packet one-way delay: 113.108 ms

Loss rate: 0.00%

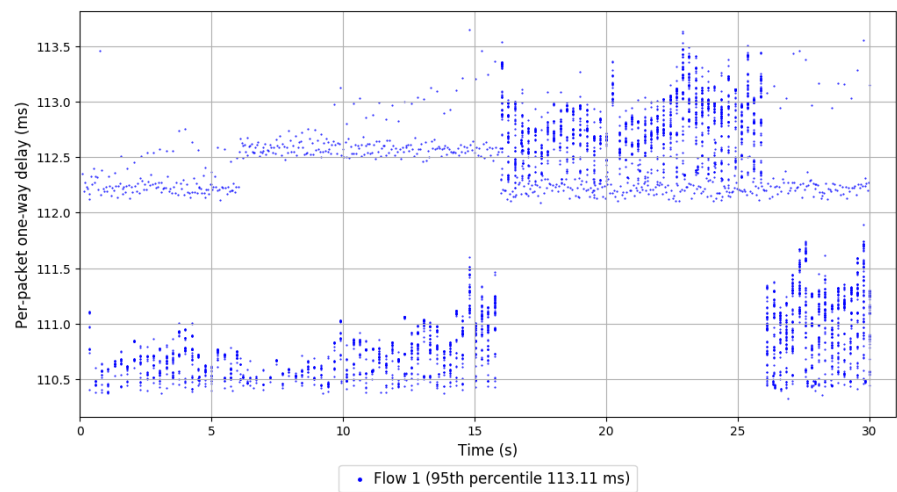
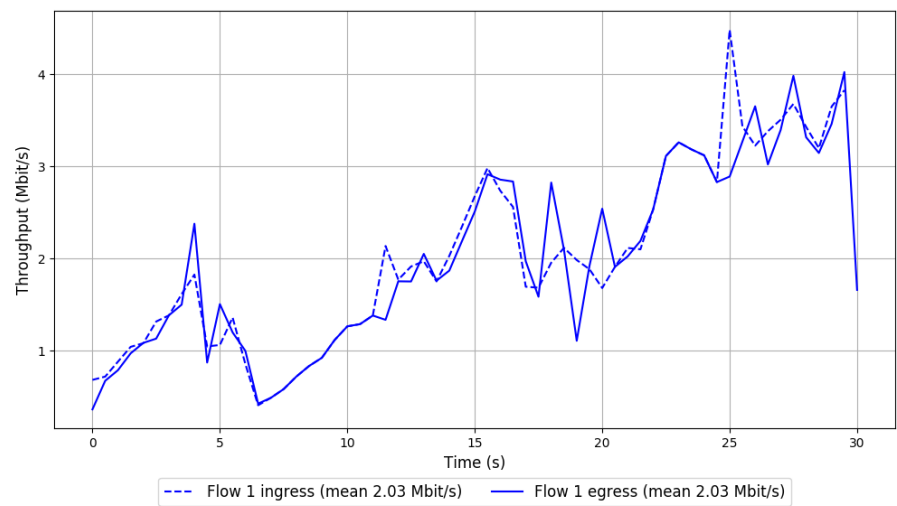
-- Flow 1:

Average throughput: 2.03 Mbit/s

95th percentile per-packet one-way delay: 113.108 ms

Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

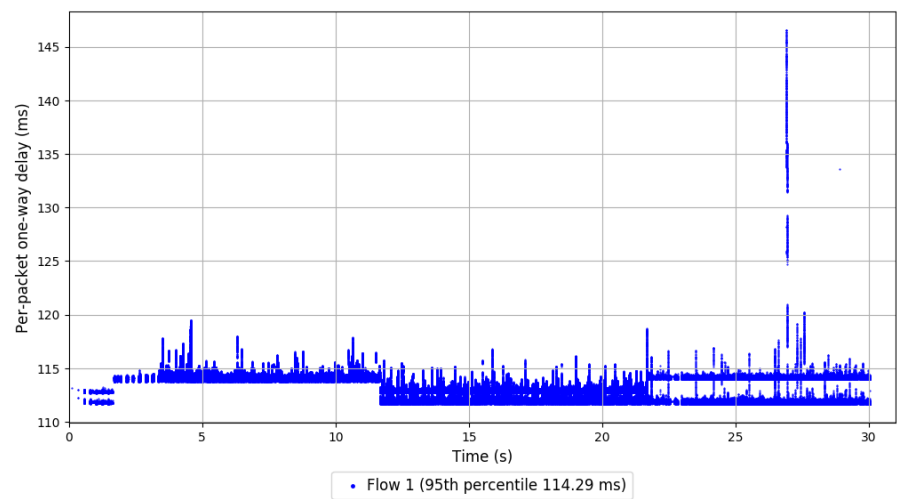
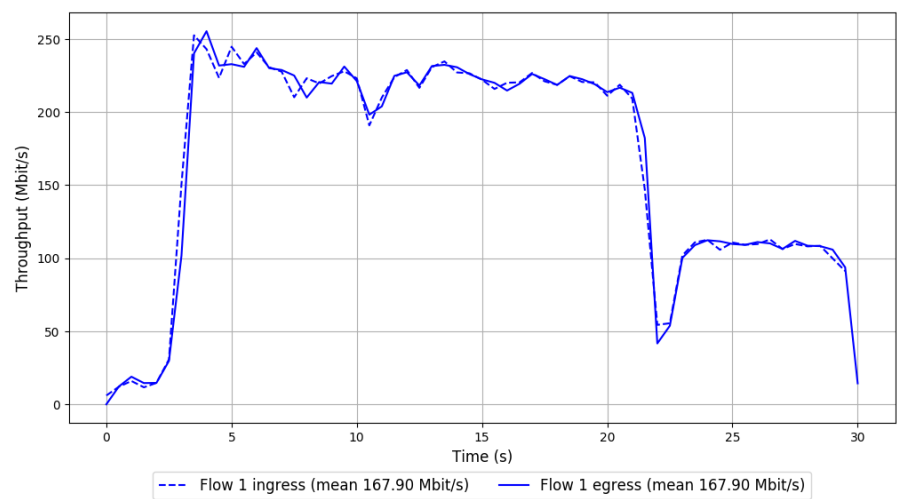


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-03-20 08:31:02
End at: 2018-03-20 08:31:32

# Below is generated by plot.py at 2018-03-20 12:38:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 167.90 Mbit/s
95th percentile per-packet one-way delay: 114.289 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 167.90 Mbit/s
95th percentile per-packet one-way delay: 114.289 ms
Loss rate: 0.00%
```

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

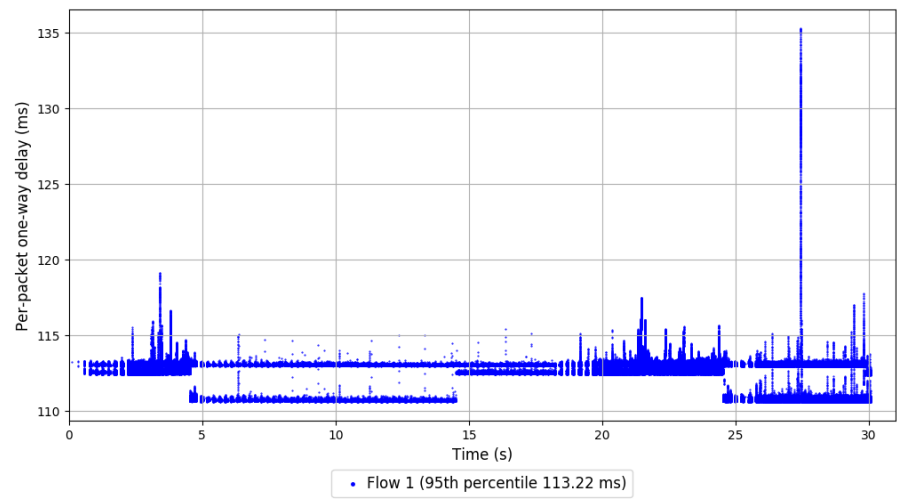
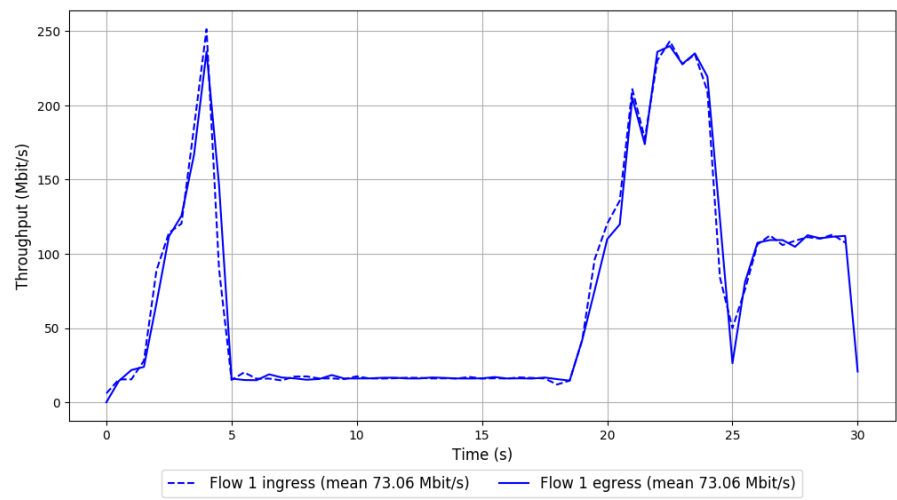


```
Run 2: Statistics of TaoVA-100x

Start at: 2018-03-20 08:46:29
End at: 2018-03-20 08:46:59

# Below is generated by plot.py at 2018-03-20 12:38:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 73.06 Mbit/s
95th percentile per-packet one-way delay: 113.220 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 73.06 Mbit/s
95th percentile per-packet one-way delay: 113.220 ms
Loss rate: 0.00%
```

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-03-20 09:01:44

End at: 2018-03-20 09:02:14

Below is generated by plot.py at 2018-03-20 12:38:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 22.94 Mbit/s

95th percentile per-packet one-way delay: 112.277 ms

Loss rate: 0.00%

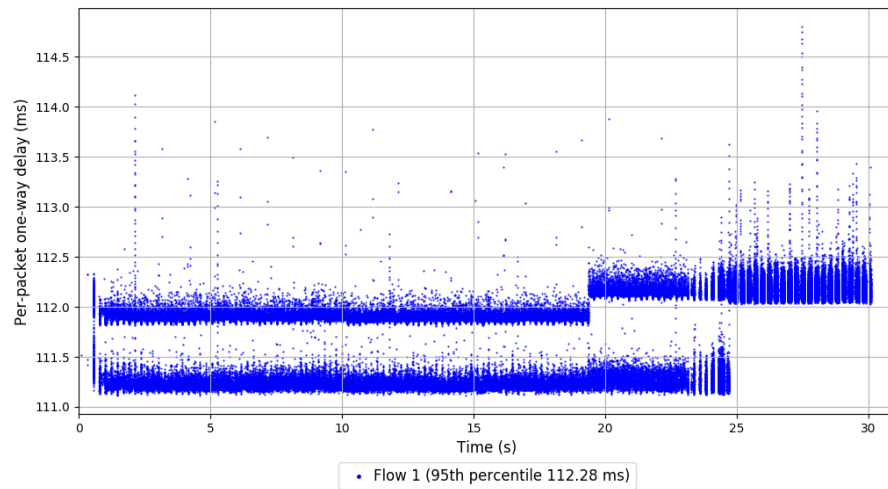
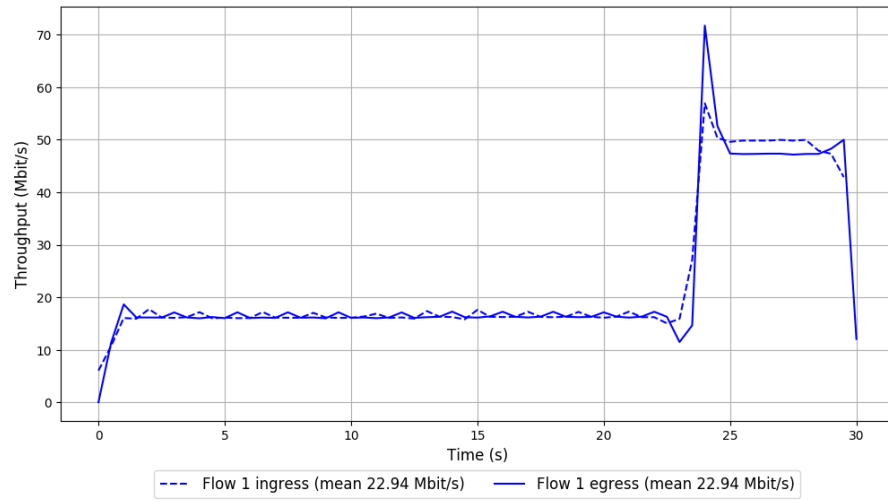
-- Flow 1:

Average throughput: 22.94 Mbit/s

95th percentile per-packet one-way delay: 112.277 ms

Loss rate: 0.00%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-03-20 09:17:00

End at: 2018-03-20 09:17:30

Below is generated by plot.py at 2018-03-20 12:38:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 14.57 Mbit/s

95th percentile per-packet one-way delay: 112.915 ms

Loss rate: 0.00%

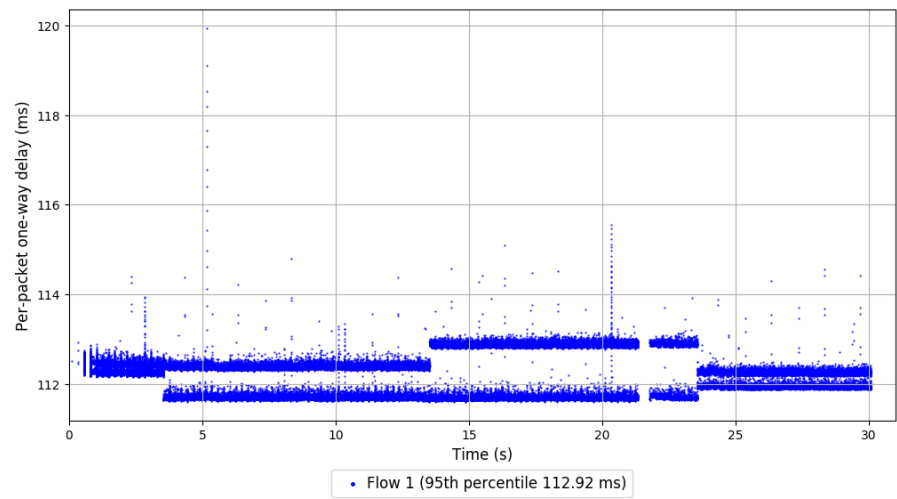
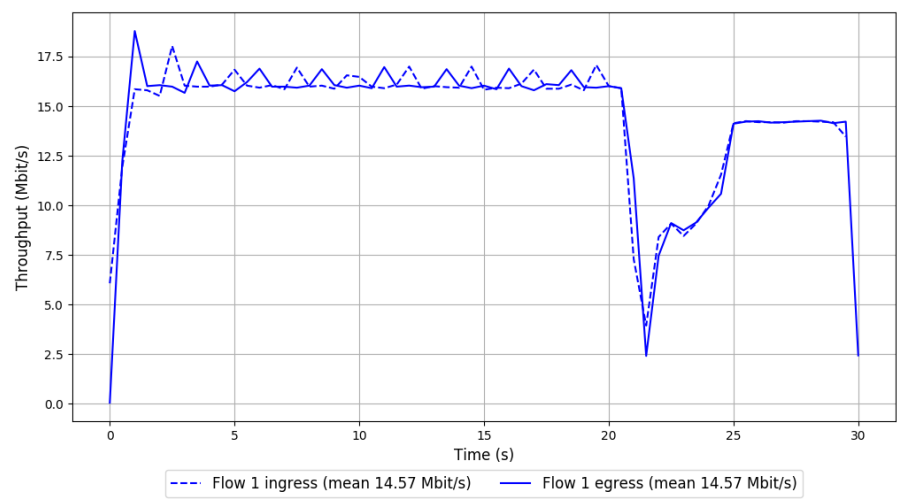
-- Flow 1:

Average throughput: 14.57 Mbit/s

95th percentile per-packet one-way delay: 112.915 ms

Loss rate: 0.00%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-03-20 09:32:27

End at: 2018-03-20 09:32:57

Below is generated by plot.py at 2018-03-20 12:38:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.17 Mbit/s

95th percentile per-packet one-way delay: 112.611 ms

Loss rate: 0.00%

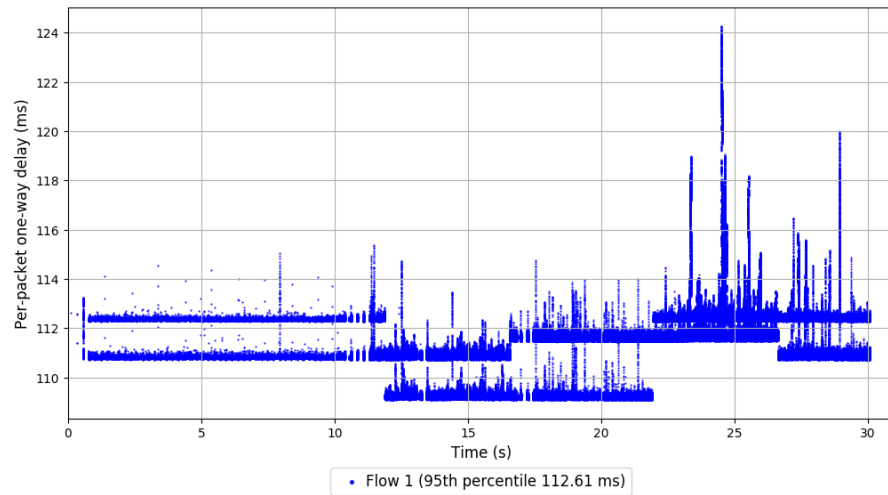
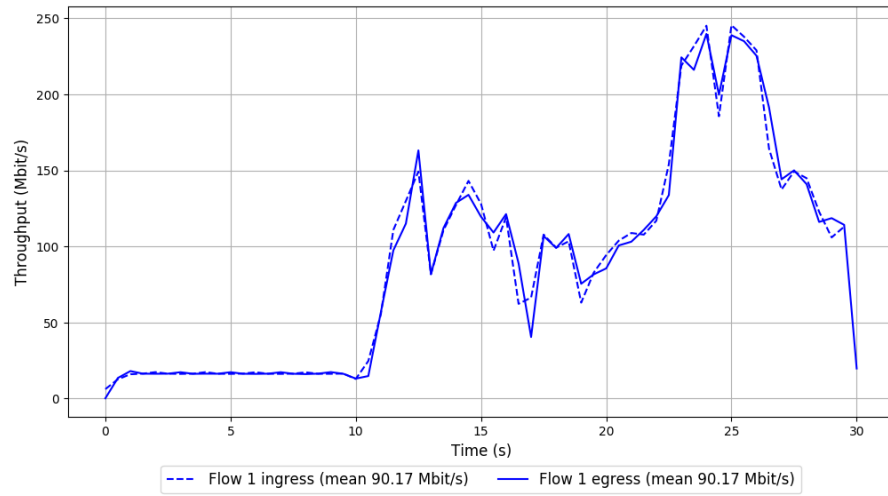
-- Flow 1:

Average throughput: 90.17 Mbit/s

95th percentile per-packet one-way delay: 112.611 ms

Loss rate: 0.00%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-03-20 09:48:09

End at: 2018-03-20 09:48:39

Below is generated by plot.py at 2018-03-20 12:38:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.27 Mbit/s

95th percentile per-packet one-way delay: 111.054 ms

Loss rate: 0.00%

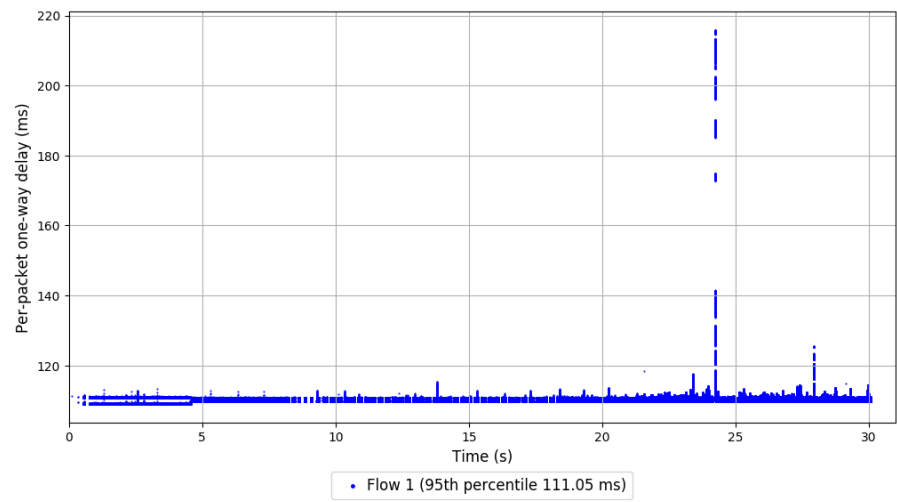
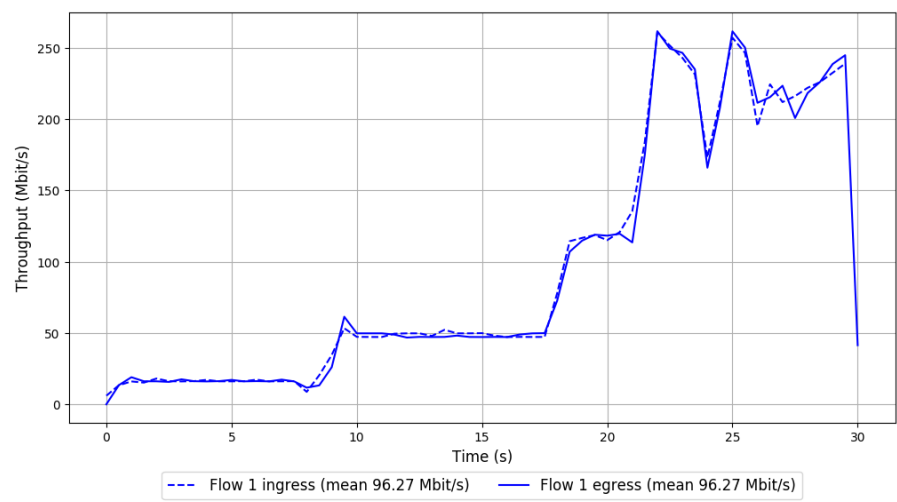
-- Flow 1:

Average throughput: 96.27 Mbit/s

95th percentile per-packet one-way delay: 111.054 ms

Loss rate: 0.00%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-03-20 10:03:33

End at: 2018-03-20 10:04:03

Below is generated by plot.py at 2018-03-20 12:38:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 139.42 Mbit/s

95th percentile per-packet one-way delay: 113.048 ms

Loss rate: 0.00%

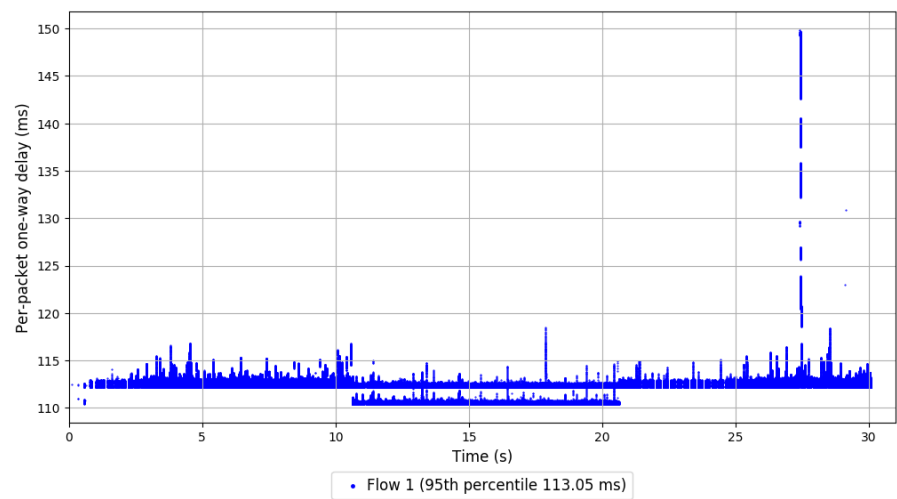
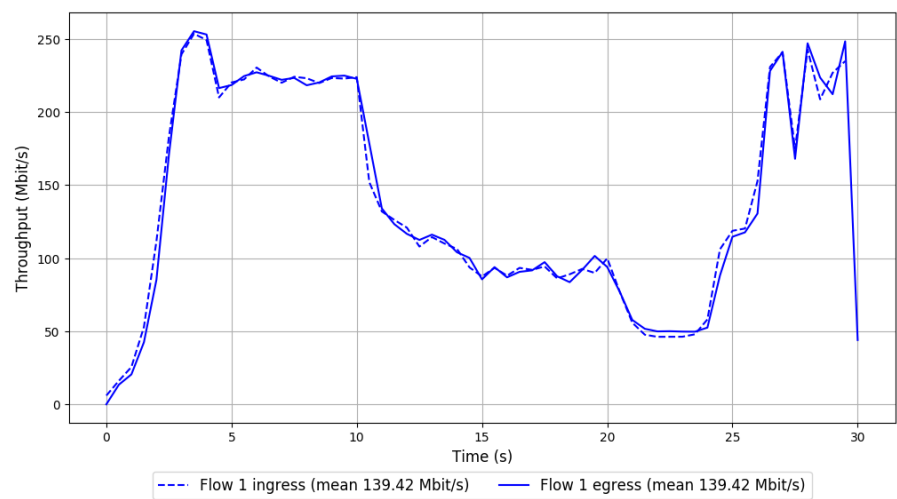
-- Flow 1:

Average throughput: 139.42 Mbit/s

95th percentile per-packet one-way delay: 113.048 ms

Loss rate: 0.00%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-03-20 10:18:49

End at: 2018-03-20 10:19:19

Below is generated by plot.py at 2018-03-20 12:38:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 15.85 Mbit/s

95th percentile per-packet one-way delay: 112.583 ms

Loss rate: 0.00%

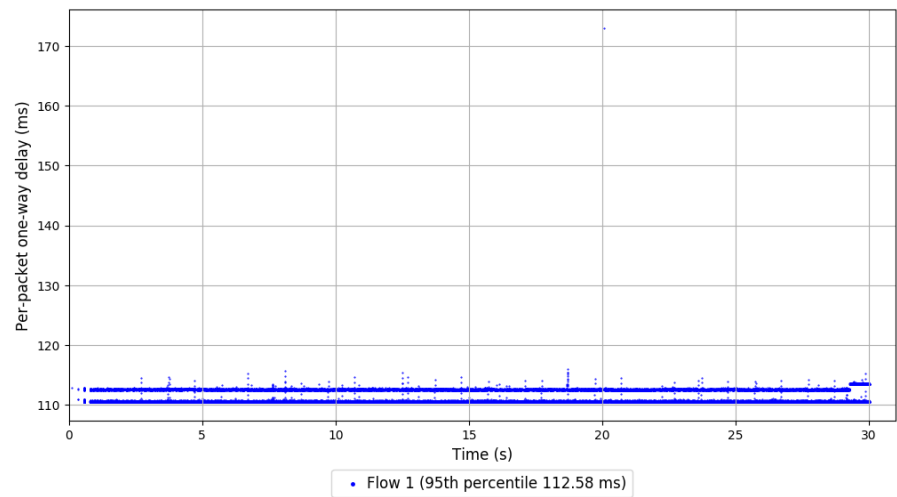
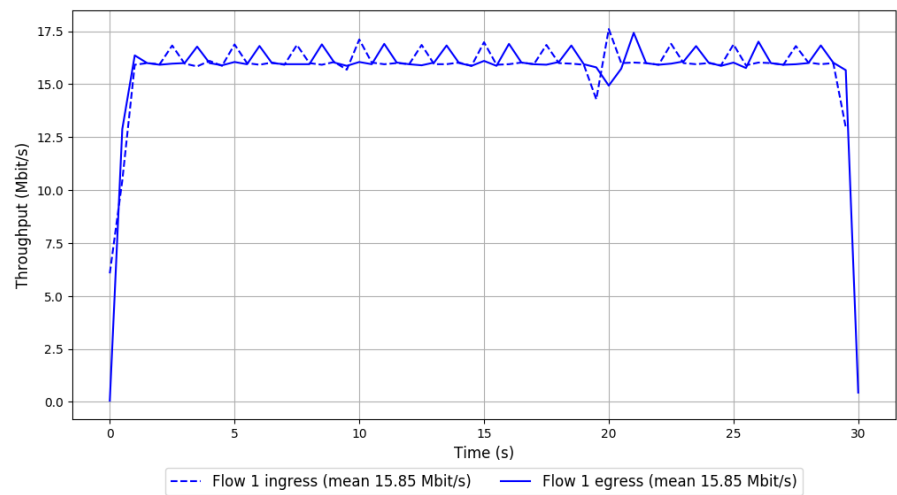
-- Flow 1:

Average throughput: 15.85 Mbit/s

95th percentile per-packet one-way delay: 112.583 ms

Loss rate: 0.00%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-03-20 10:34:14

End at: 2018-03-20 10:34:44

Below is generated by plot.py at 2018-03-20 12:38:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 104.22 Mbit/s

95th percentile per-packet one-way delay: 112.453 ms

Loss rate: 0.00%

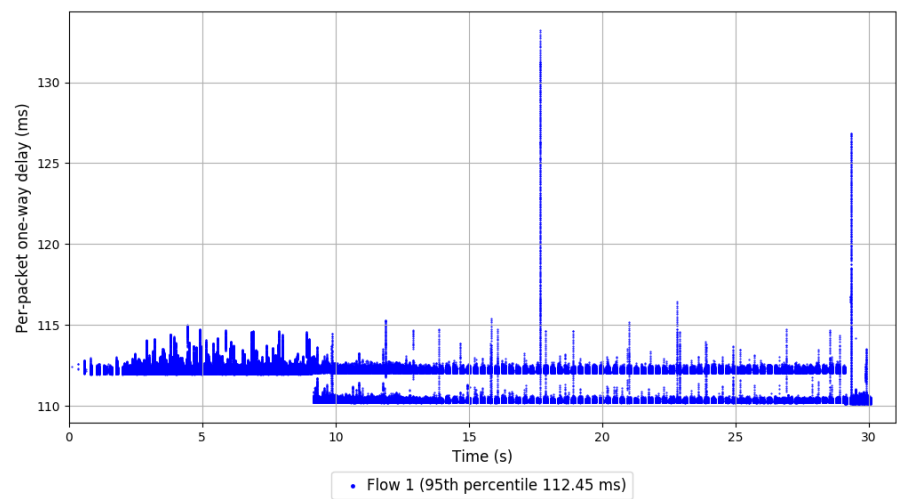
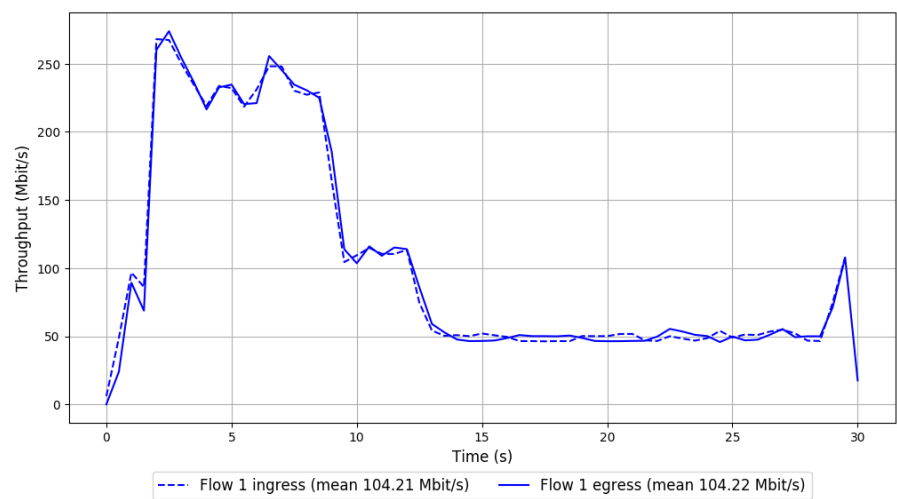
-- Flow 1:

Average throughput: 104.22 Mbit/s

95th percentile per-packet one-way delay: 112.453 ms

Loss rate: 0.00%

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

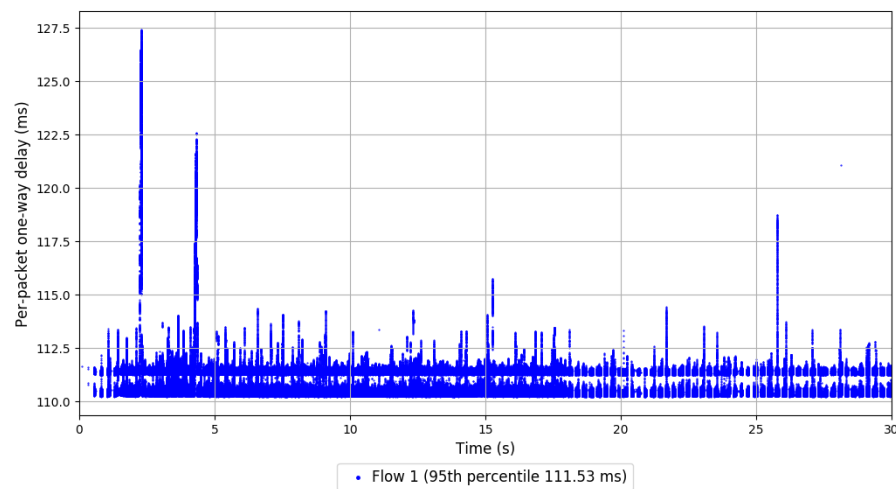
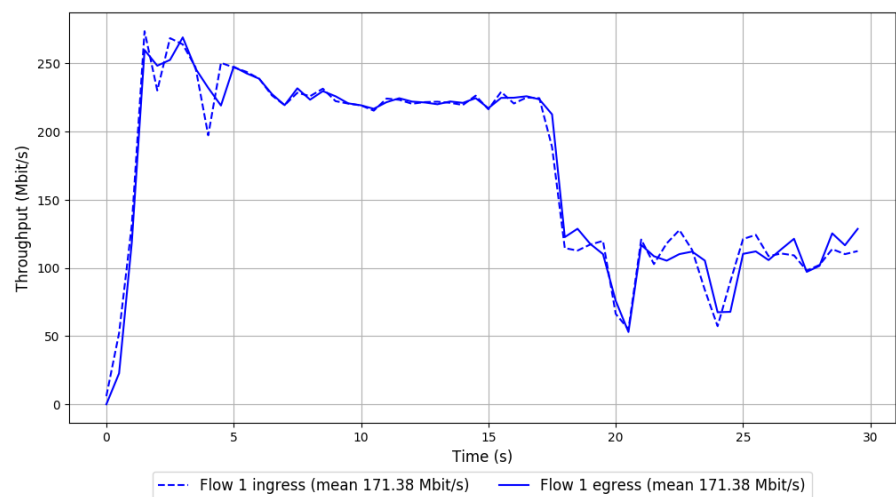


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-03-20 10:49:39
End at: 2018-03-20 10:50:09

# Below is generated by plot.py at 2018-03-20 12:39:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 171.38 Mbit/s
95th percentile per-packet one-way delay: 111.529 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 171.38 Mbit/s
95th percentile per-packet one-way delay: 111.529 ms
Loss rate: 0.00%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2018-03-20 08:27:28

End at: 2018-03-20 08:27:58

Below is generated by plot.py at 2018-03-20 12:39:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 102.96 Mbit/s

95th percentile per-packet one-way delay: 122.689 ms

Loss rate: 0.00%

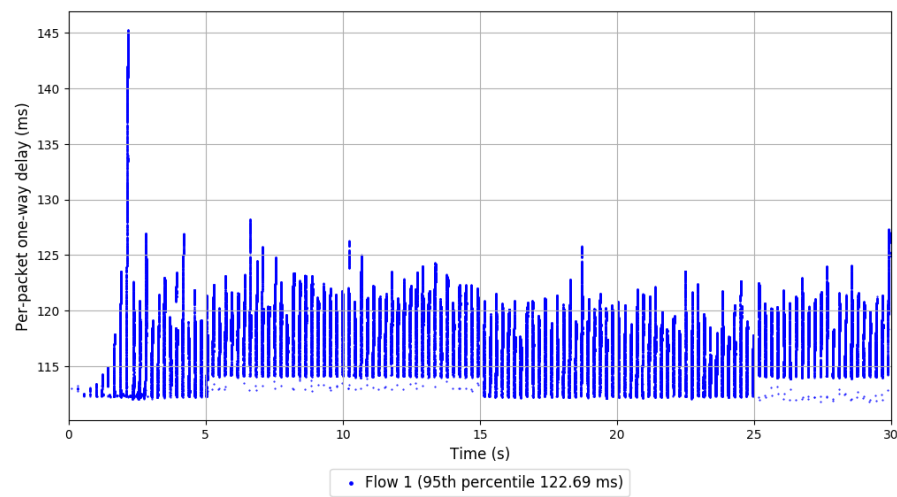
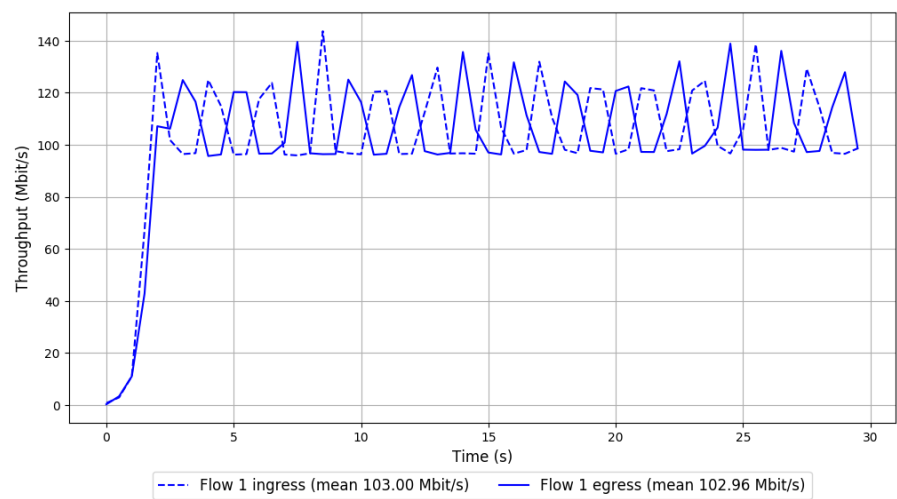
-- Flow 1:

Average throughput: 102.96 Mbit/s

95th percentile per-packet one-way delay: 122.689 ms

Loss rate: 0.00%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-03-20 08:42:53

End at: 2018-03-20 08:43:23

Below is generated by plot.py at 2018-03-20 12:39:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.83 Mbit/s

95th percentile per-packet one-way delay: 113.802 ms

Loss rate: 0.00%

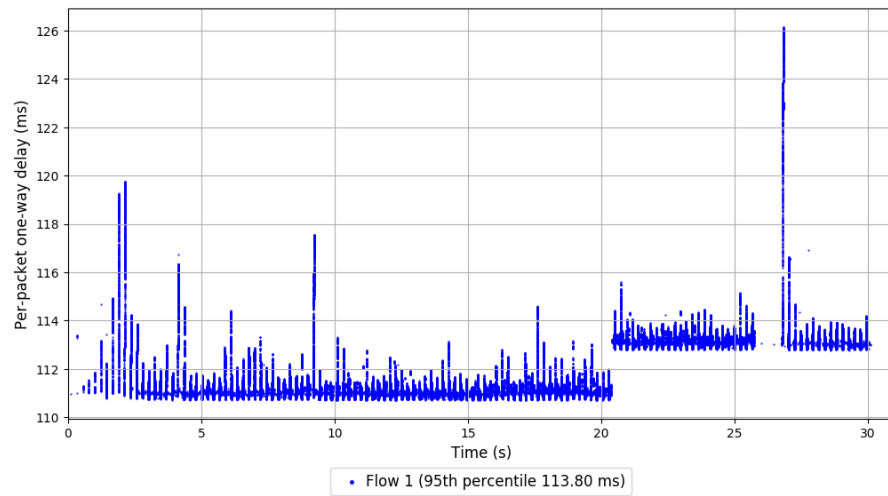
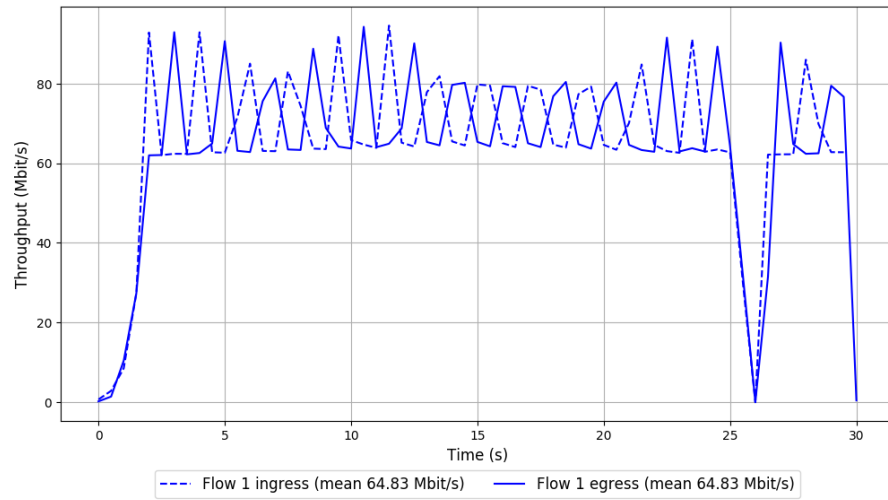
-- Flow 1:

Average throughput: 64.83 Mbit/s

95th percentile per-packet one-way delay: 113.802 ms

Loss rate: 0.00%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-03-20 08:58:11

End at: 2018-03-20 08:58:41

Below is generated by plot.py at 2018-03-20 12:39:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.96 Mbit/s

95th percentile per-packet one-way delay: 122.285 ms

Loss rate: 0.00%

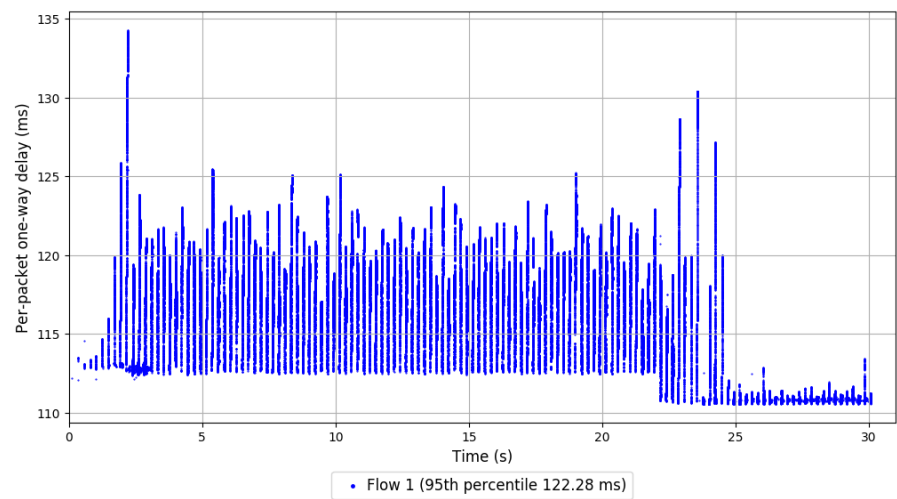
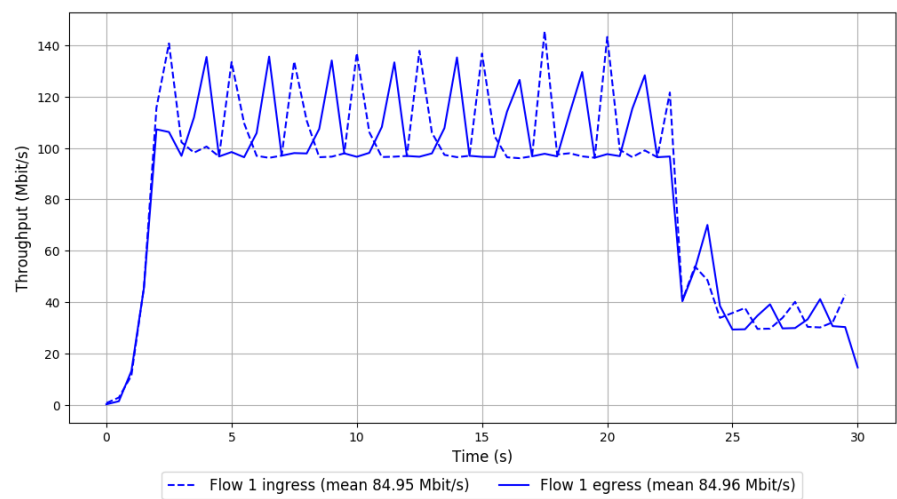
-- Flow 1:

Average throughput: 84.96 Mbit/s

95th percentile per-packet one-way delay: 122.285 ms

Loss rate: 0.00%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-03-20 09:13:24

End at: 2018-03-20 09:13:54

Below is generated by plot.py at 2018-03-20 12:39:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 100.52 Mbit/s

95th percentile per-packet one-way delay: 120.861 ms

Loss rate: 0.00%

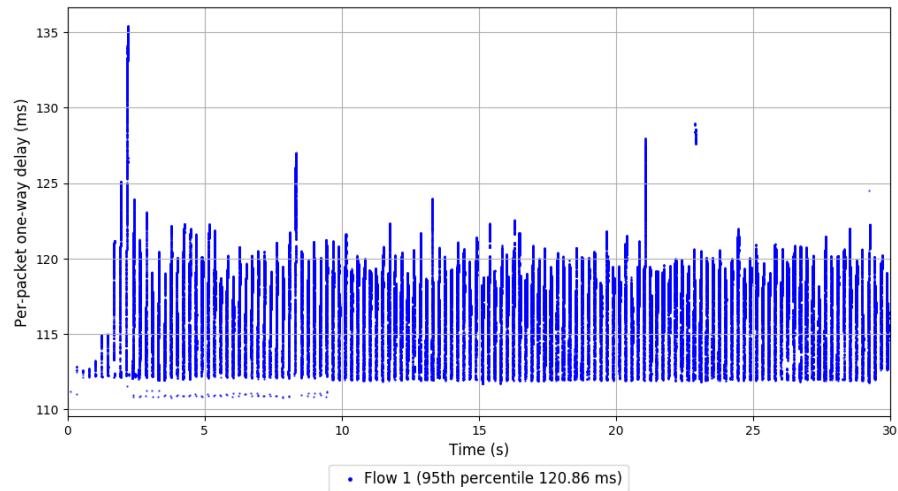
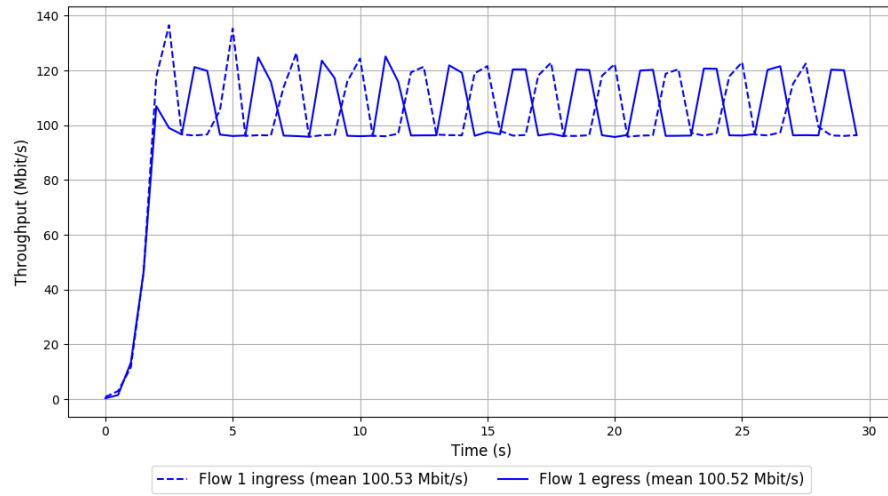
-- Flow 1:

Average throughput: 100.52 Mbit/s

95th percentile per-packet one-way delay: 120.861 ms

Loss rate: 0.00%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-03-20 09:28:46

End at: 2018-03-20 09:29:16

Below is generated by plot.py at 2018-03-20 12:39:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 101.10 Mbit/s

95th percentile per-packet one-way delay: 121.269 ms

Loss rate: 0.00%

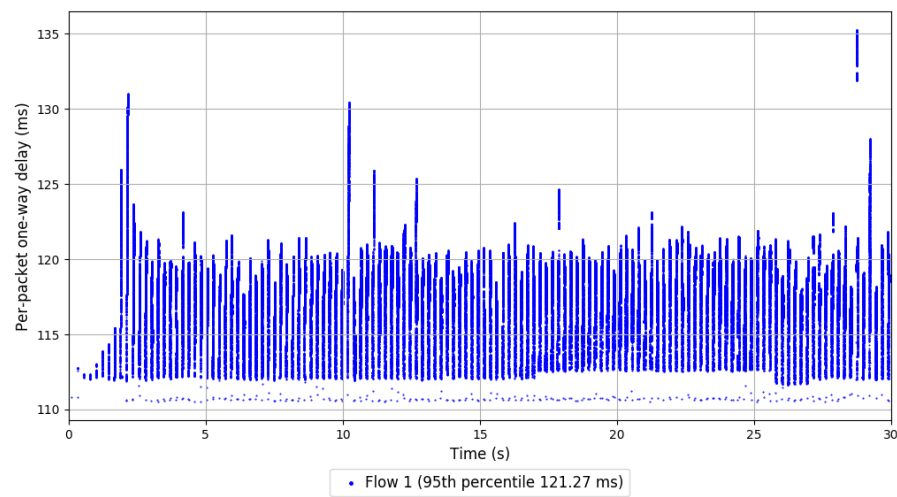
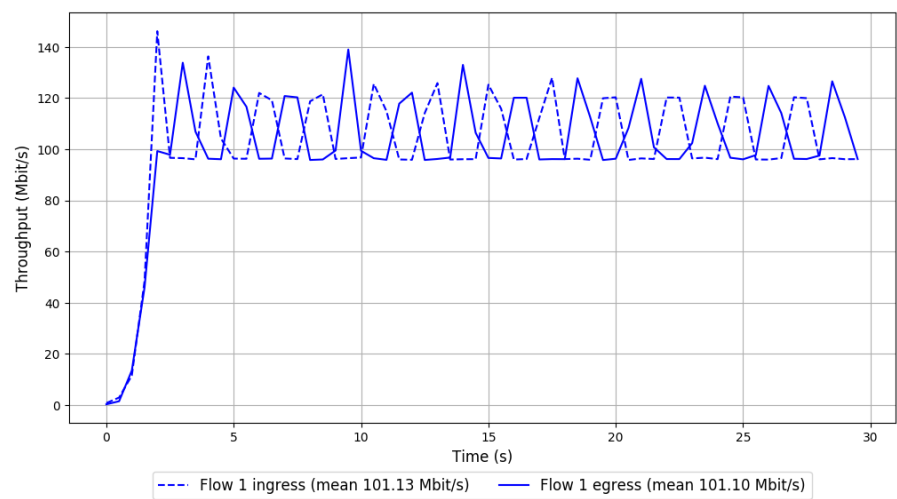
-- Flow 1:

Average throughput: 101.10 Mbit/s

95th percentile per-packet one-way delay: 121.269 ms

Loss rate: 0.00%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-03-20 09:44:27

End at: 2018-03-20 09:44:57

Below is generated by plot.py at 2018-03-20 12:39:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 61.55 Mbit/s

95th percentile per-packet one-way delay: 112.713 ms

Loss rate: 0.00%

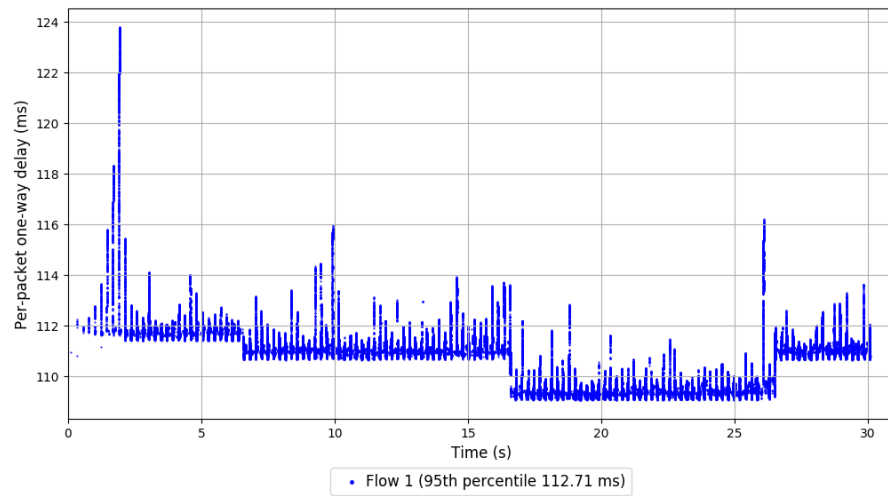
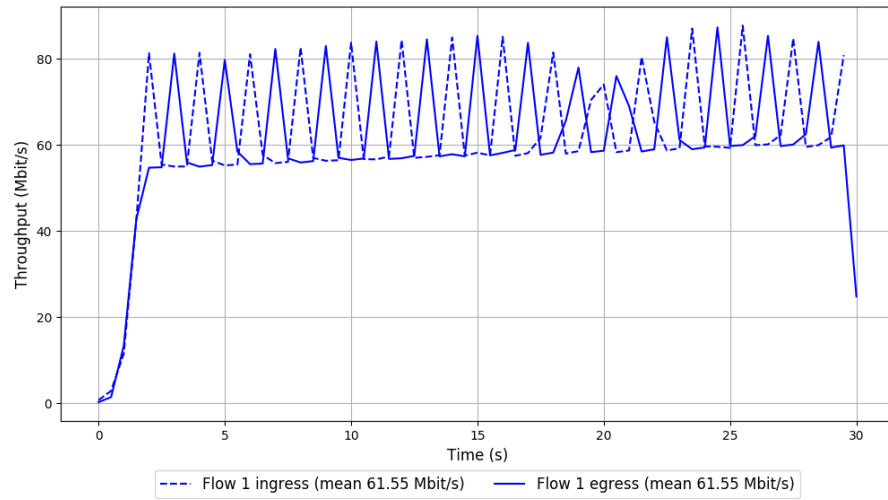
-- Flow 1:

Average throughput: 61.55 Mbit/s

95th percentile per-packet one-way delay: 112.713 ms

Loss rate: 0.00%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-03-20 09:59:54

End at: 2018-03-20 10:00:24

Below is generated by plot.py at 2018-03-20 12:39:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.47 Mbit/s

95th percentile per-packet one-way delay: 121.901 ms

Loss rate: 0.00%

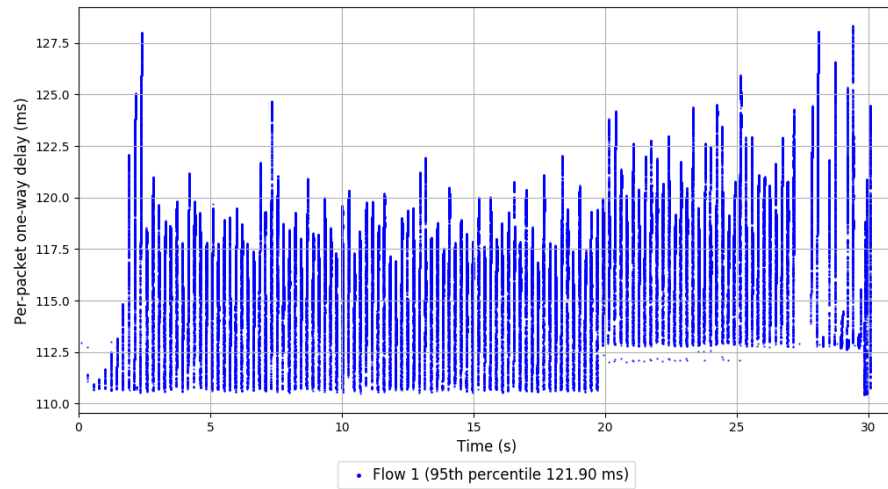
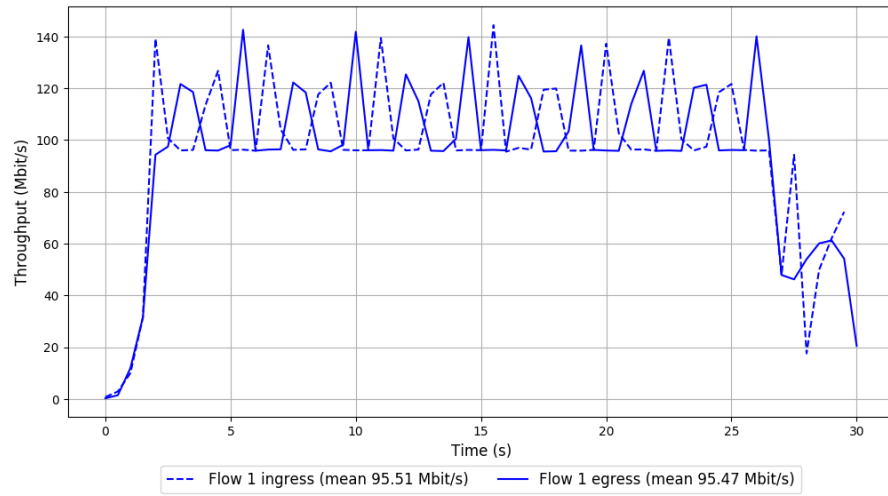
-- Flow 1:

Average throughput: 95.47 Mbit/s

95th percentile per-packet one-way delay: 121.901 ms

Loss rate: 0.00%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-03-20 10:15:12

End at: 2018-03-20 10:15:42

Below is generated by plot.py at 2018-03-20 12:39:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 101.14 Mbit/s

95th percentile per-packet one-way delay: 121.566 ms

Loss rate: 0.15%

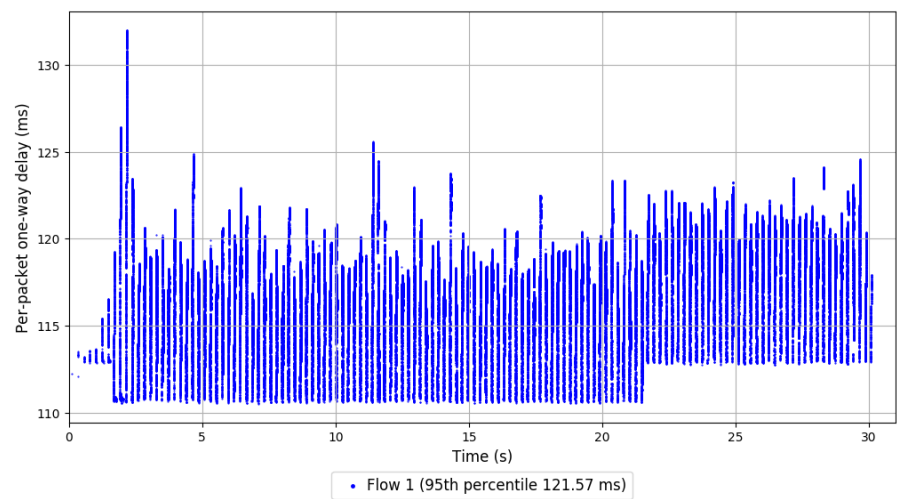
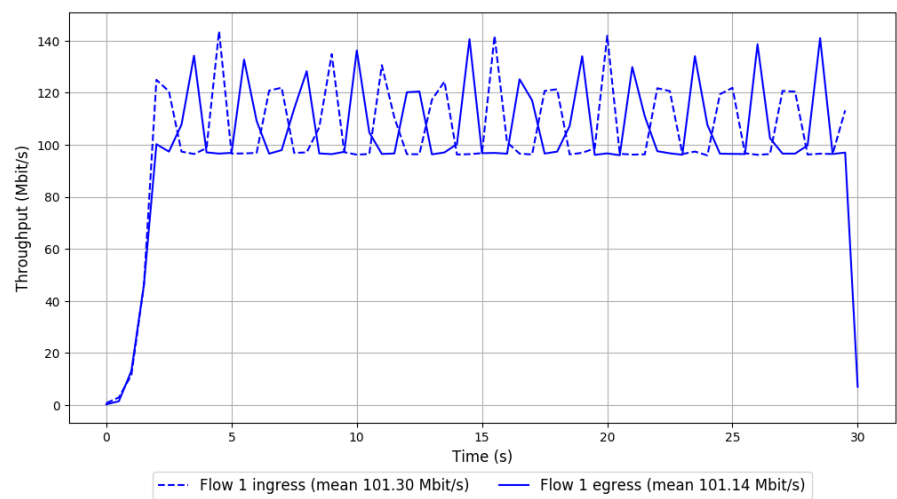
-- Flow 1:

Average throughput: 101.14 Mbit/s

95th percentile per-packet one-way delay: 121.566 ms

Loss rate: 0.15%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-03-20 10:30:37

End at: 2018-03-20 10:31:07

Below is generated by plot.py at 2018-03-20 12:39:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 99.57 Mbit/s

95th percentile per-packet one-way delay: 122.622 ms

Loss rate: 0.00%

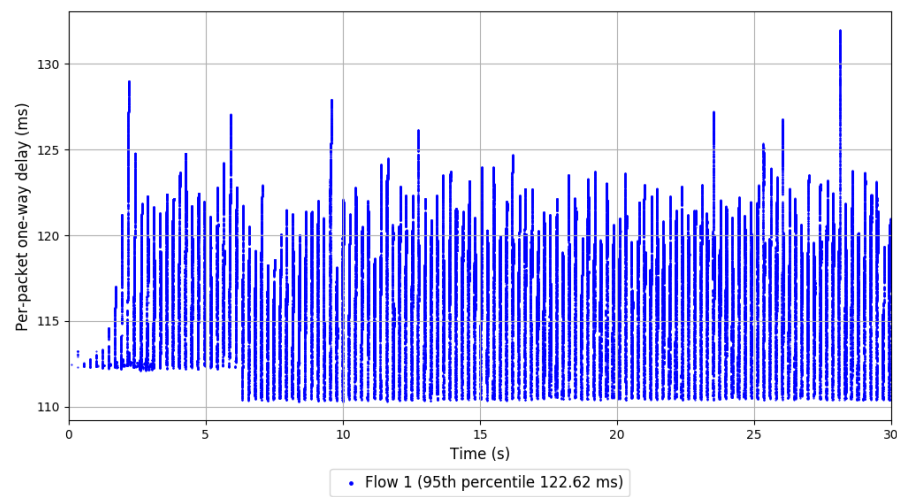
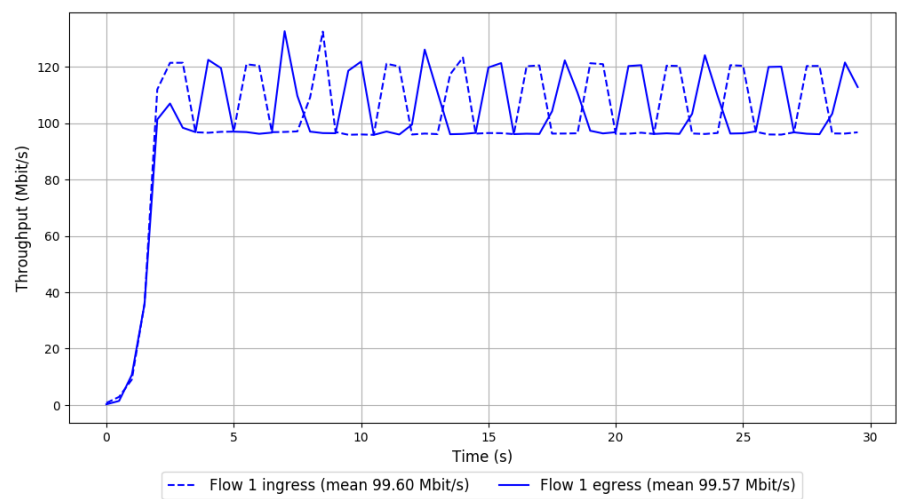
-- Flow 1:

Average throughput: 99.57 Mbit/s

95th percentile per-packet one-way delay: 122.622 ms

Loss rate: 0.00%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-03-20 10:46:06

End at: 2018-03-20 10:46:36

Below is generated by plot.py at 2018-03-20 12:39:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 22.98 Mbit/s

95th percentile per-packet one-way delay: 112.919 ms

Loss rate: 0.00%

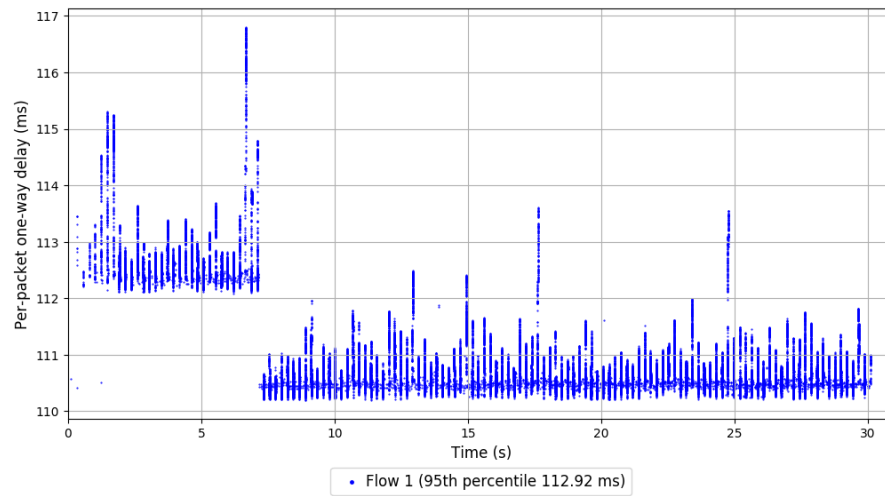
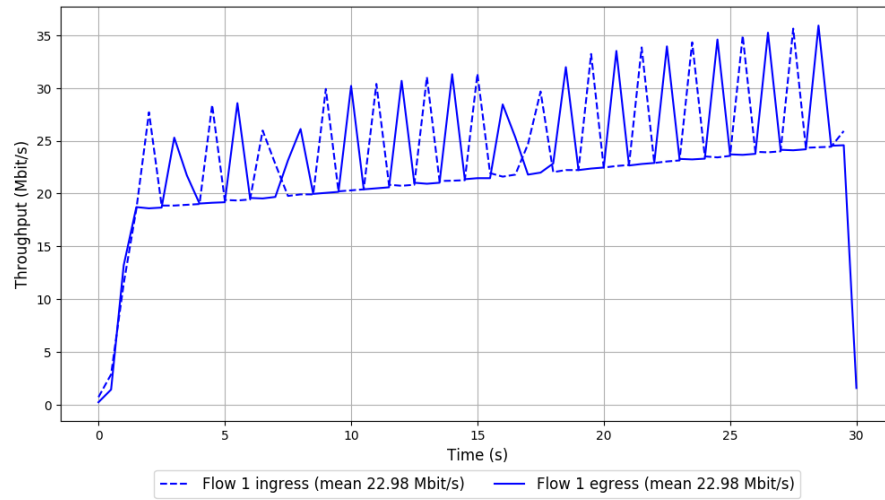
-- Flow 1:

Average throughput: 22.98 Mbit/s

95th percentile per-packet one-way delay: 112.919 ms

Loss rate: 0.00%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-03-20 08:35:33

End at: 2018-03-20 08:36:03

Below is generated by plot.py at 2018-03-20 12:40:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 160.15 Mbit/s

95th percentile per-packet one-way delay: 215.833 ms

Loss rate: 1.61%

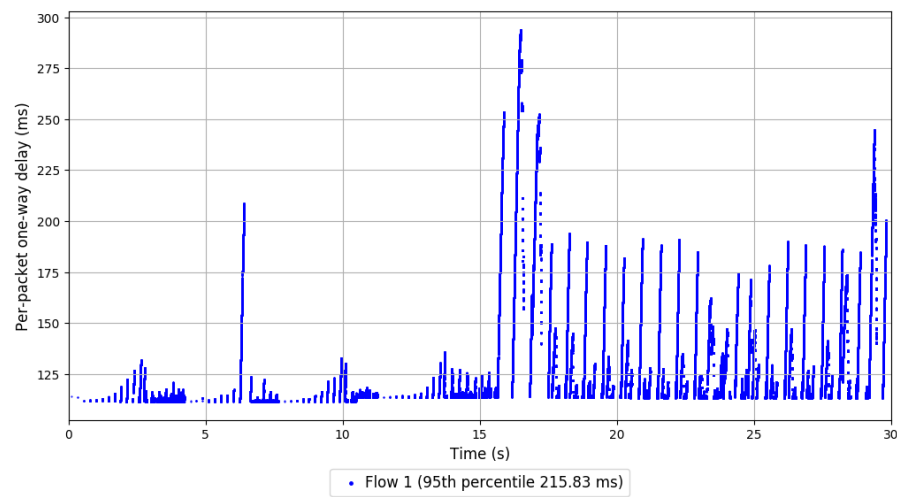
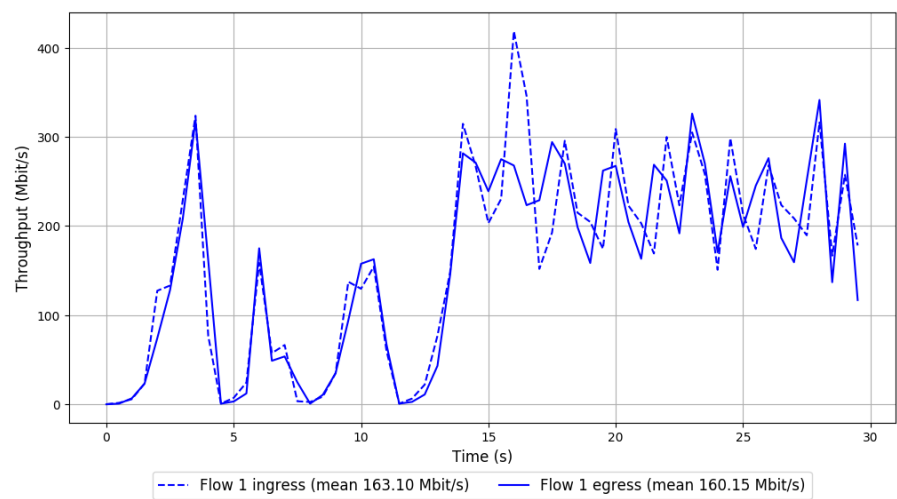
-- Flow 1:

Average throughput: 160.15 Mbit/s

95th percentile per-packet one-way delay: 215.833 ms

Loss rate: 1.61%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-03-20 08:50:48

End at: 2018-03-20 08:51:18

Below is generated by plot.py at 2018-03-20 12:40:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 112.10 Mbit/s

95th percentile per-packet one-way delay: 143.426 ms

Loss rate: 0.00%

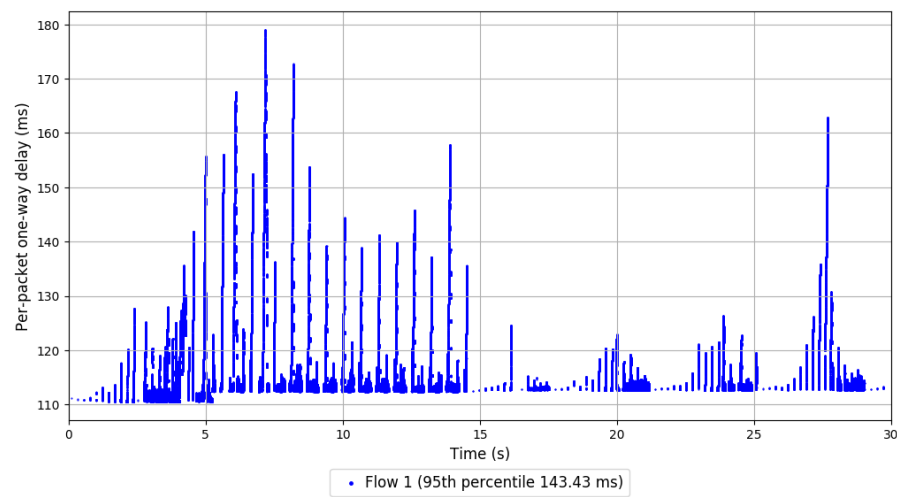
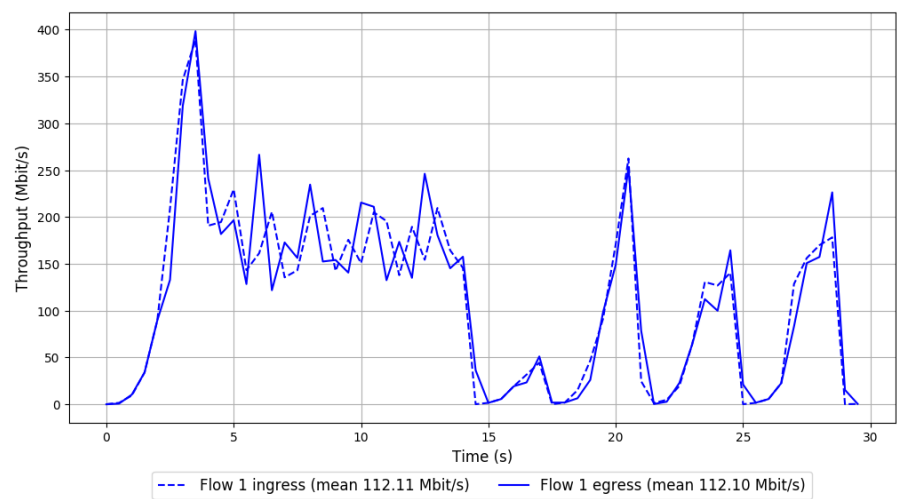
-- Flow 1:

Average throughput: 112.10 Mbit/s

95th percentile per-packet one-way delay: 143.426 ms

Loss rate: 0.00%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-03-20 09:06:02

End at: 2018-03-20 09:06:32

Below is generated by plot.py at 2018-03-20 12:40:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 109.26 Mbit/s

95th percentile per-packet one-way delay: 286.475 ms

Loss rate: 5.08%

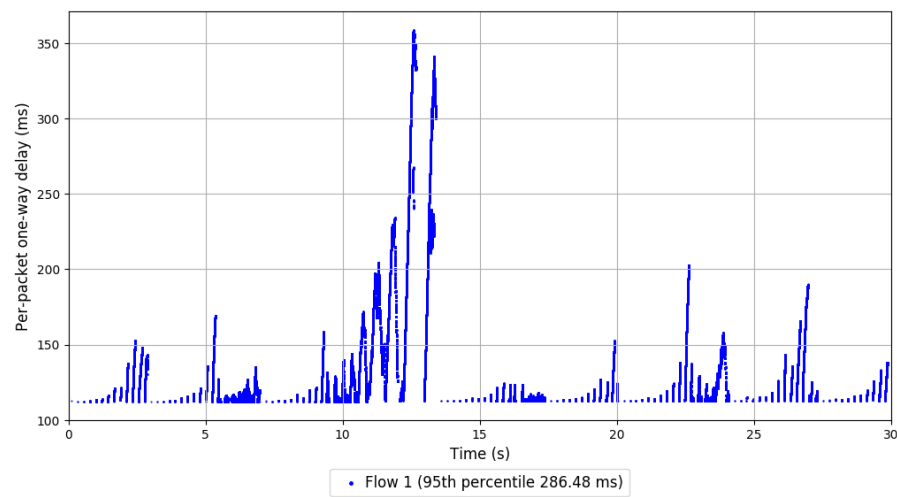
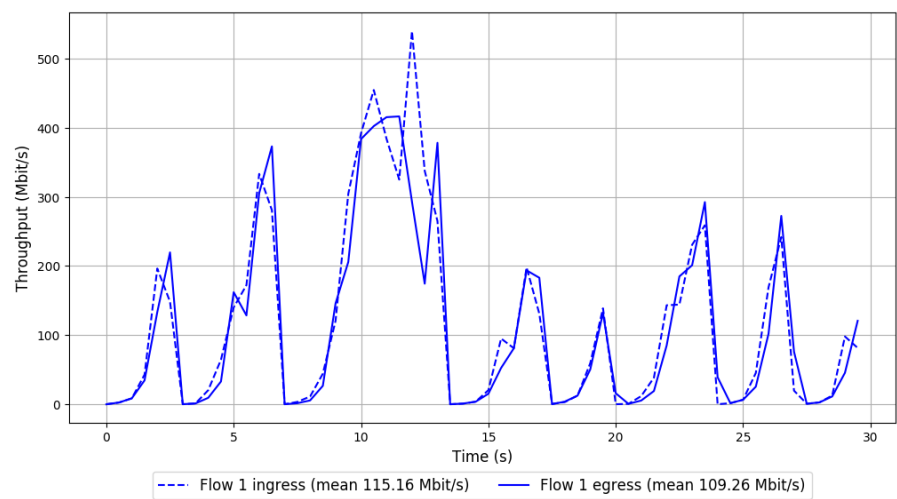
-- Flow 1:

Average throughput: 109.26 Mbit/s

95th percentile per-packet one-way delay: 286.475 ms

Loss rate: 5.08%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-03-20 09:21:16

End at: 2018-03-20 09:21:46

Below is generated by plot.py at 2018-03-20 12:41:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 155.07 Mbit/s

95th percentile per-packet one-way delay: 176.002 ms

Loss rate: 0.00%

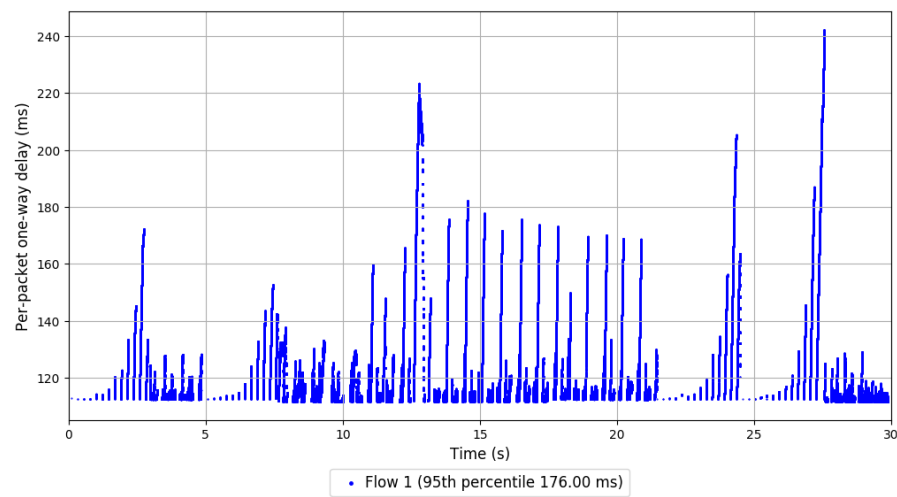
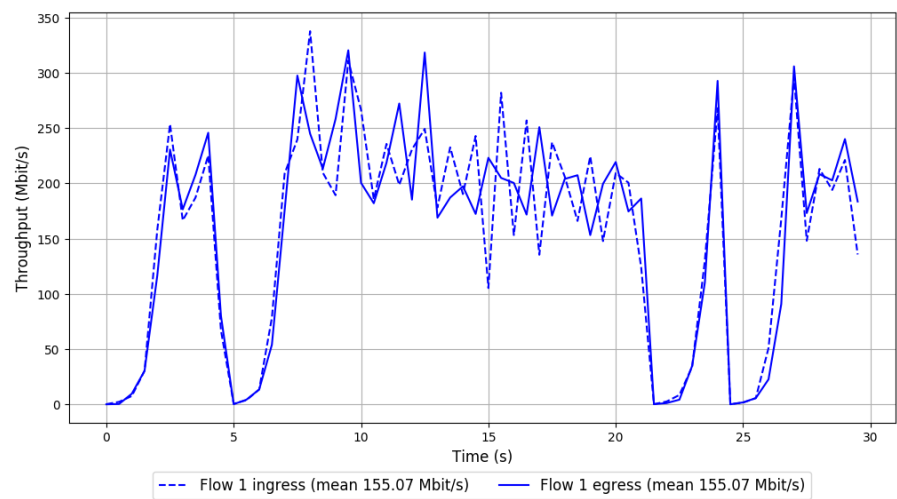
-- Flow 1:

Average throughput: 155.07 Mbit/s

95th percentile per-packet one-way delay: 176.002 ms

Loss rate: 0.00%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-03-20 09:36:52

End at: 2018-03-20 09:37:22

Below is generated by plot.py at 2018-03-20 12:41:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 174.03 Mbit/s

95th percentile per-packet one-way delay: 335.297 ms

Loss rate: 9.48%

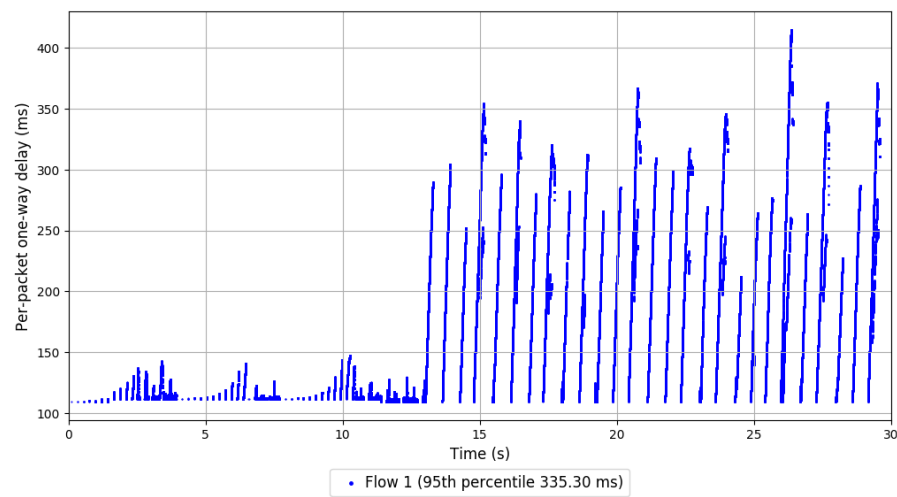
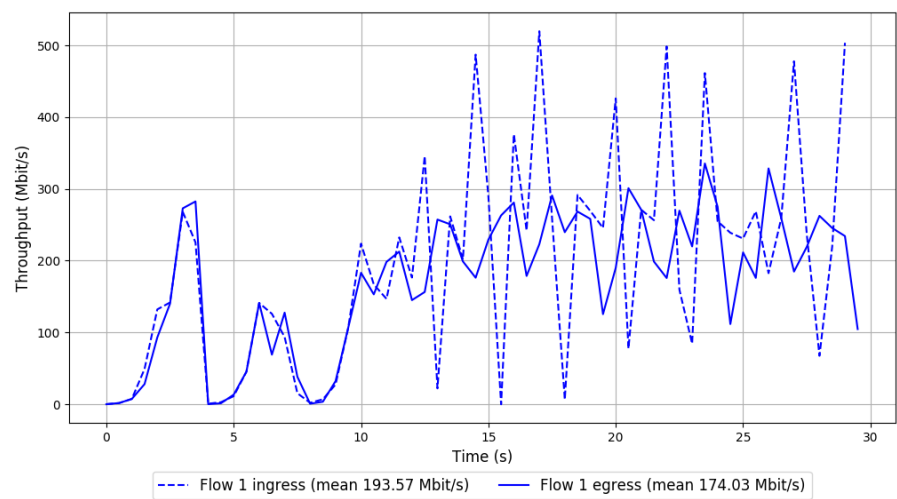
-- Flow 1:

Average throughput: 174.03 Mbit/s

95th percentile per-packet one-way delay: 335.297 ms

Loss rate: 9.48%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-03-20 09:52:33

End at: 2018-03-20 09:53:03

Below is generated by plot.py at 2018-03-20 12:41:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 135.24 Mbit/s

95th percentile per-packet one-way delay: 221.842 ms

Loss rate: 0.00%

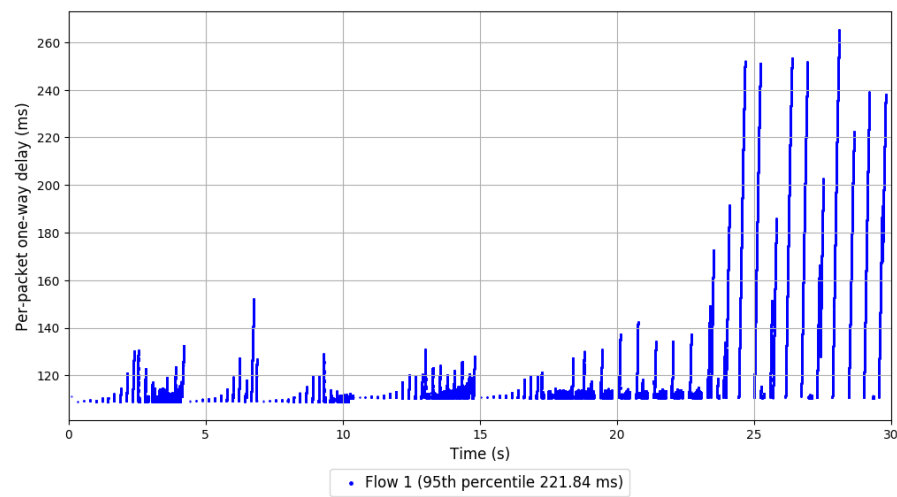
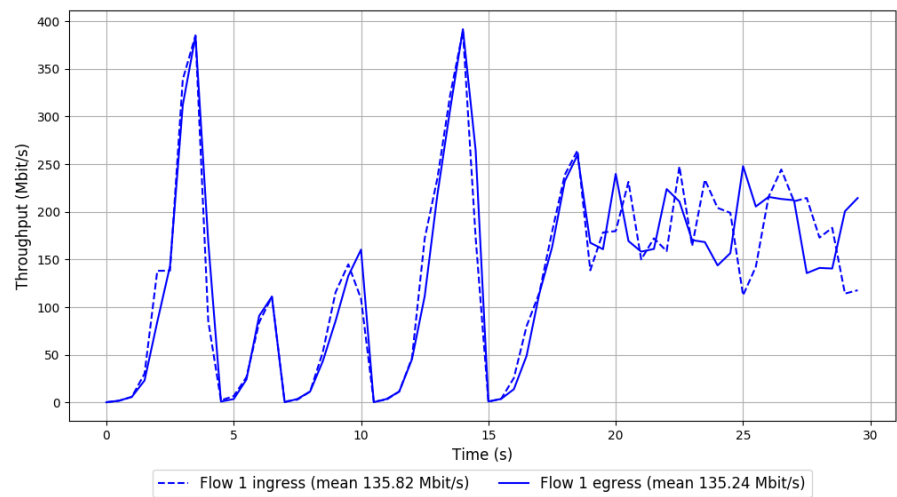
-- Flow 1:

Average throughput: 135.24 Mbit/s

95th percentile per-packet one-way delay: 221.842 ms

Loss rate: 0.00%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-03-20 10:07:59

End at: 2018-03-20 10:08:29

Below is generated by plot.py at 2018-03-20 12:41:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 112.37 Mbit/s

95th percentile per-packet one-way delay: 158.152 ms

Loss rate: 0.00%

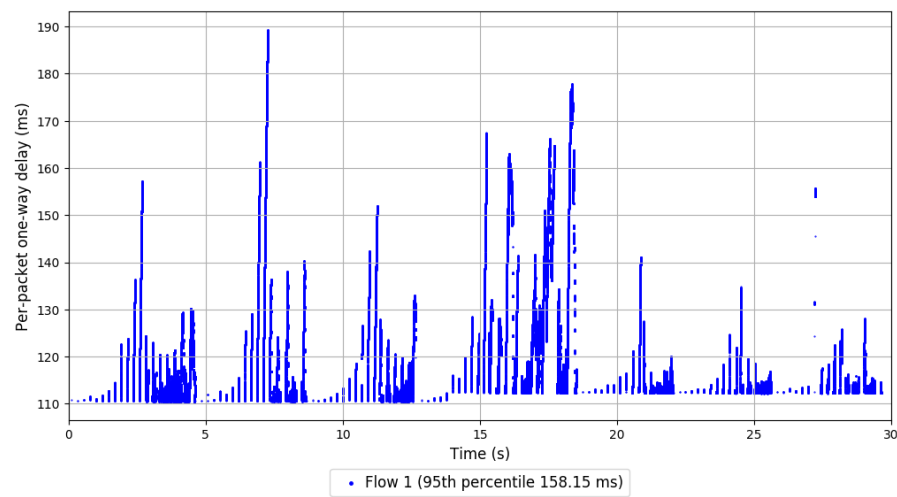
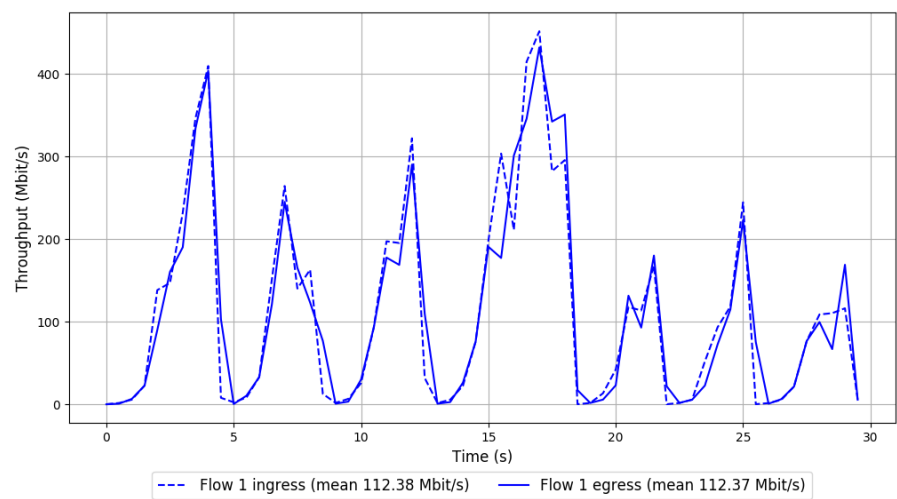
-- Flow 1:

Average throughput: 112.37 Mbit/s

95th percentile per-packet one-way delay: 158.152 ms

Loss rate: 0.00%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-03-20 10:23:04

End at: 2018-03-20 10:23:34

Below is generated by plot.py at 2018-03-20 12:42:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 158.34 Mbit/s

95th percentile per-packet one-way delay: 182.546 ms

Loss rate: 0.00%

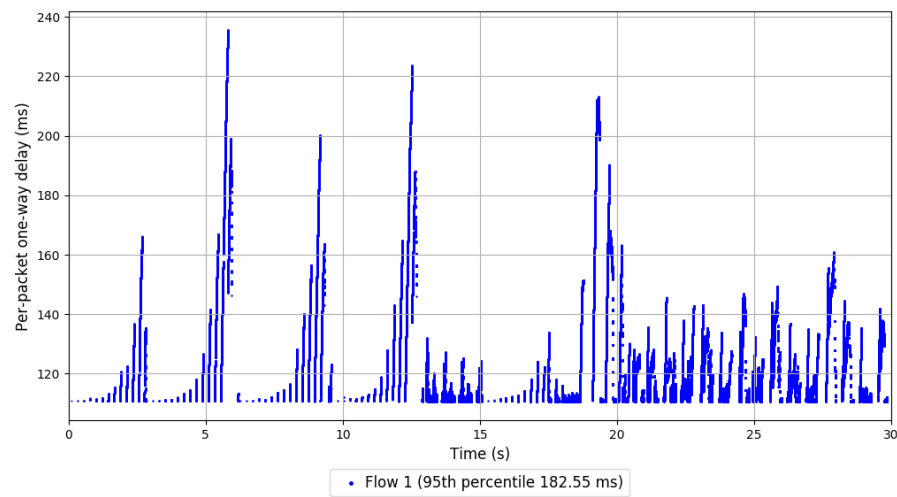
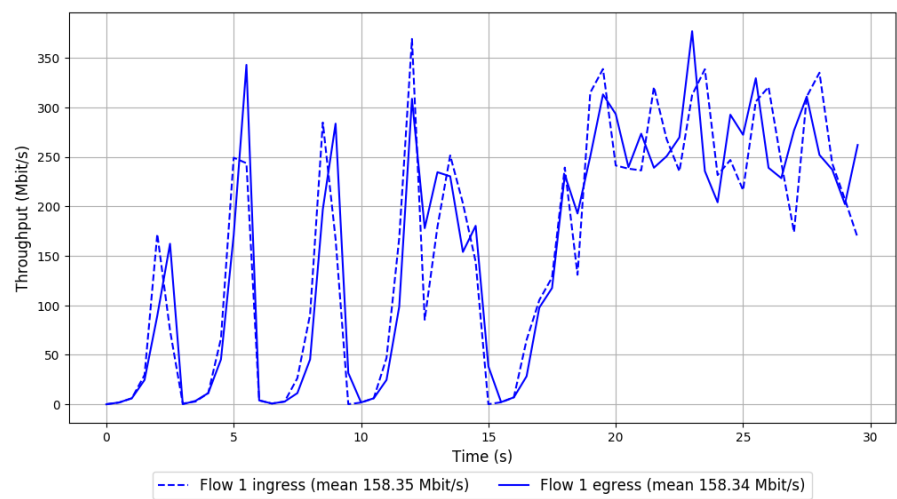
-- Flow 1:

Average throughput: 158.34 Mbit/s

95th percentile per-packet one-way delay: 182.546 ms

Loss rate: 0.00%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-03-20 10:38:39

End at: 2018-03-20 10:39:09

Below is generated by plot.py at 2018-03-20 12:42:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 98.00 Mbit/s

95th percentile per-packet one-way delay: 166.115 ms

Loss rate: 0.00%

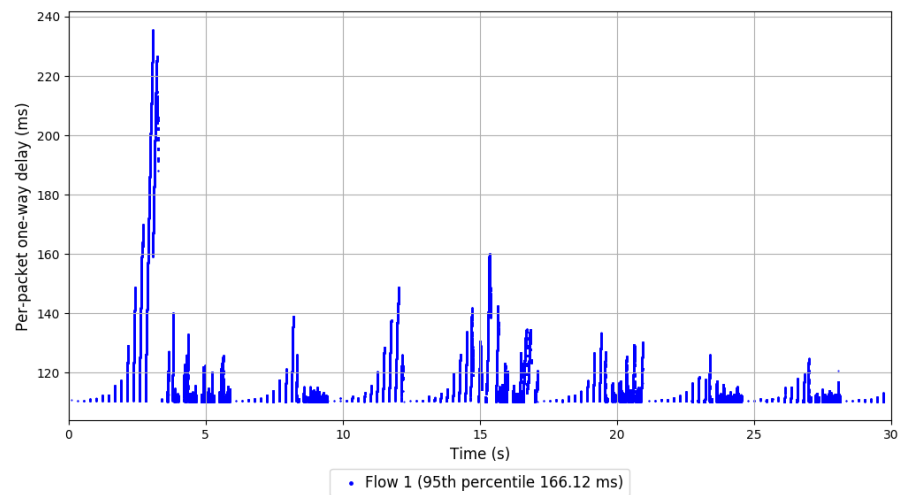
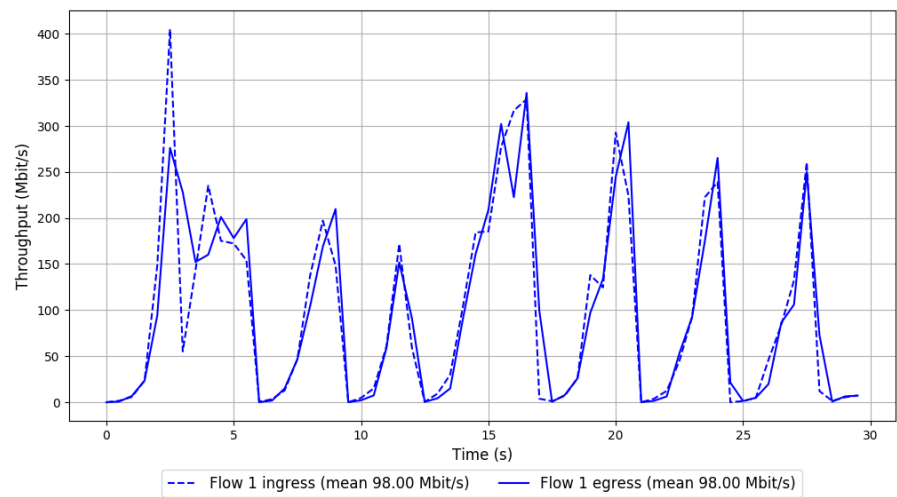
-- Flow 1:

Average throughput: 98.00 Mbit/s

95th percentile per-packet one-way delay: 166.115 ms

Loss rate: 0.00%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-03-20 10:54:10

End at: 2018-03-20 10:54:40

Below is generated by plot.py at 2018-03-20 12:43:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 169.42 Mbit/s

95th percentile per-packet one-way delay: 168.954 ms

Loss rate: 0.21%

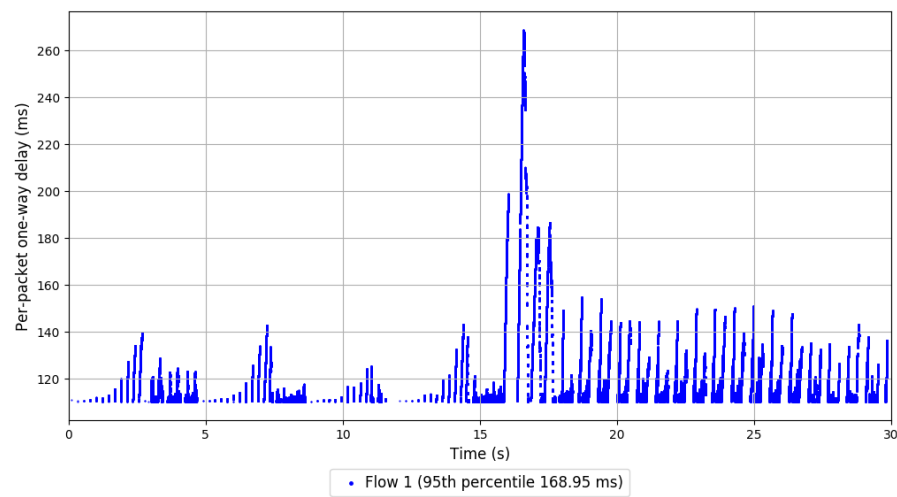
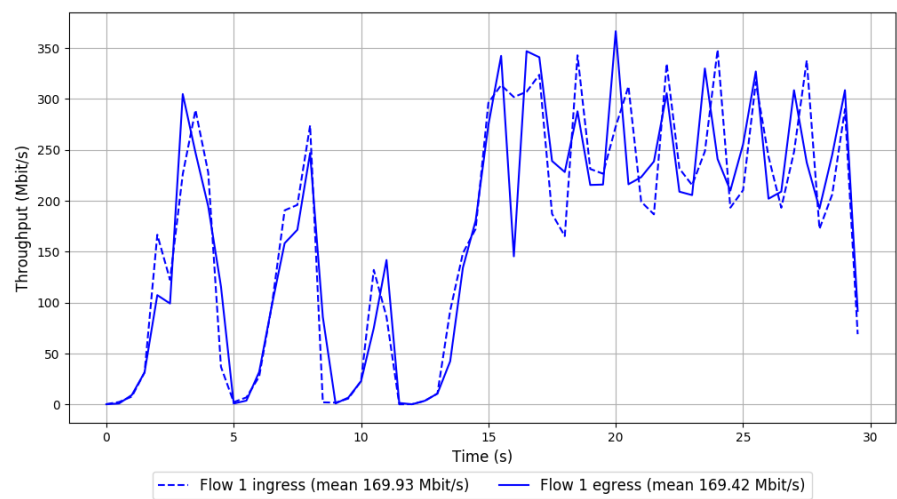
-- Flow 1:

Average throughput: 169.42 Mbit/s

95th percentile per-packet one-way delay: 168.954 ms

Loss rate: 0.21%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2018-03-20 08:24:14

End at: 2018-03-20 08:24:45

Below is generated by plot.py at 2018-03-20 12:43:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 54.89 Mbit/s

95th percentile per-packet one-way delay: 114.139 ms

Loss rate: 0.00%

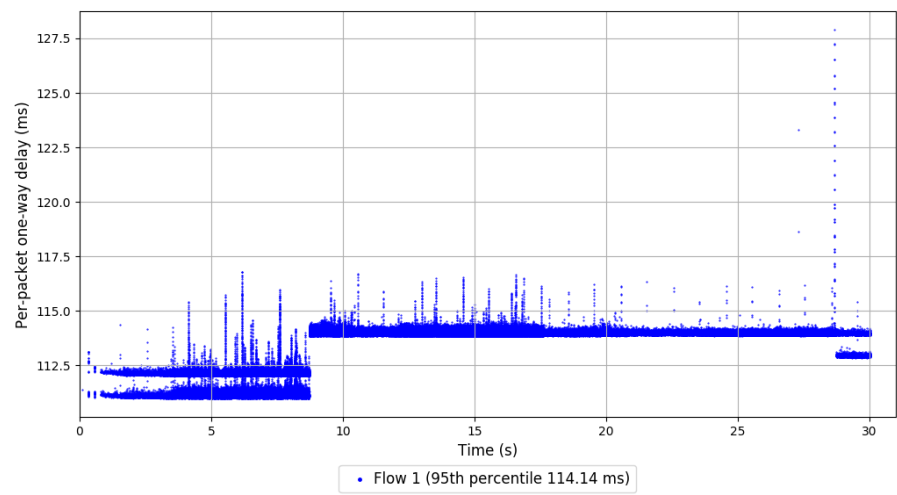
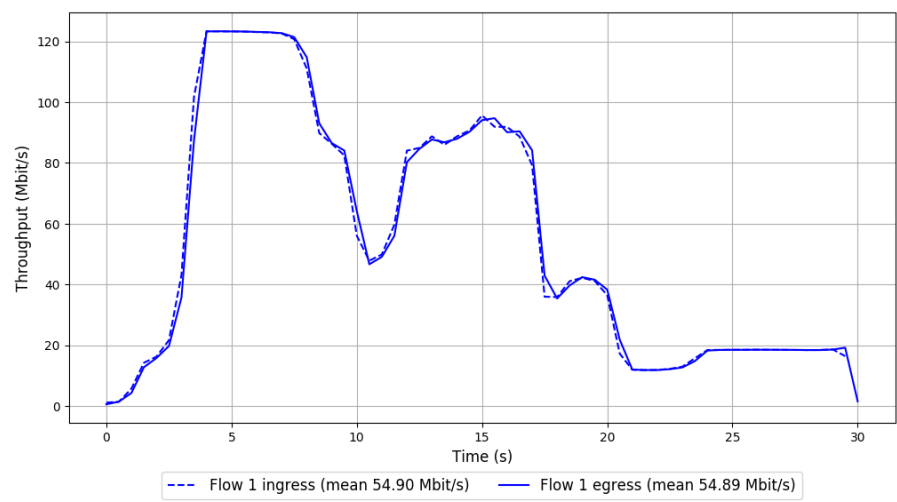
-- Flow 1:

Average throughput: 54.89 Mbit/s

95th percentile per-packet one-way delay: 114.139 ms

Loss rate: 0.00%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-03-20 08:39:48

End at: 2018-03-20 08:40:18

Below is generated by plot.py at 2018-03-20 12:43:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.66 Mbit/s

95th percentile per-packet one-way delay: 113.092 ms

Loss rate: 0.00%

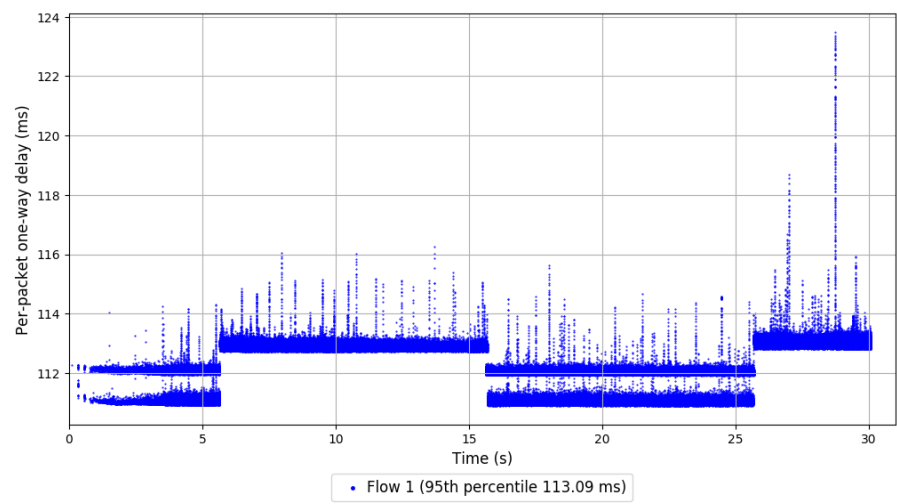
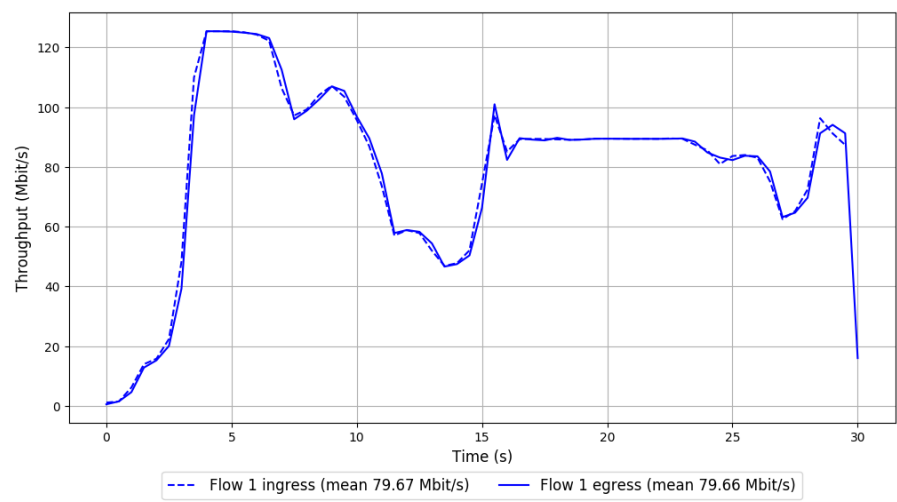
-- Flow 1:

Average throughput: 79.66 Mbit/s

95th percentile per-packet one-way delay: 113.092 ms

Loss rate: 0.00%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-03-20 08:55:00

End at: 2018-03-20 08:55:30

Below is generated by plot.py at 2018-03-20 12:43:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 81.30 Mbit/s

95th percentile per-packet one-way delay: 112.801 ms

Loss rate: 0.00%

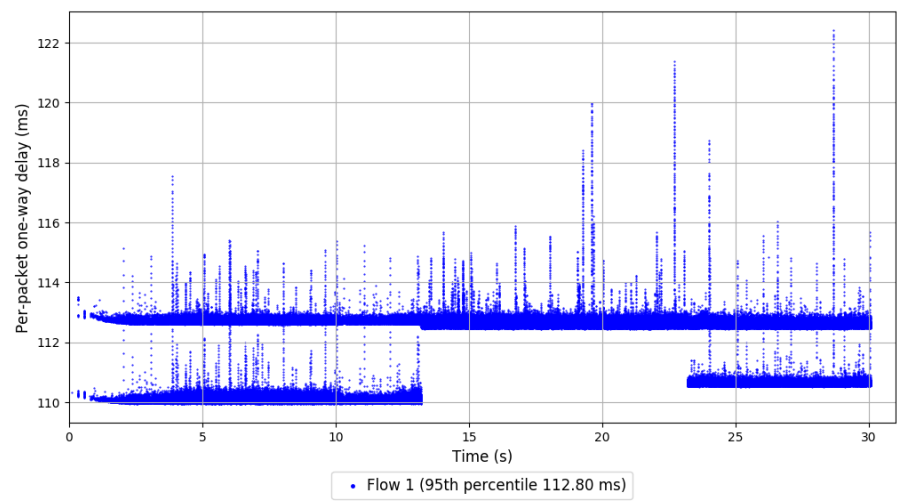
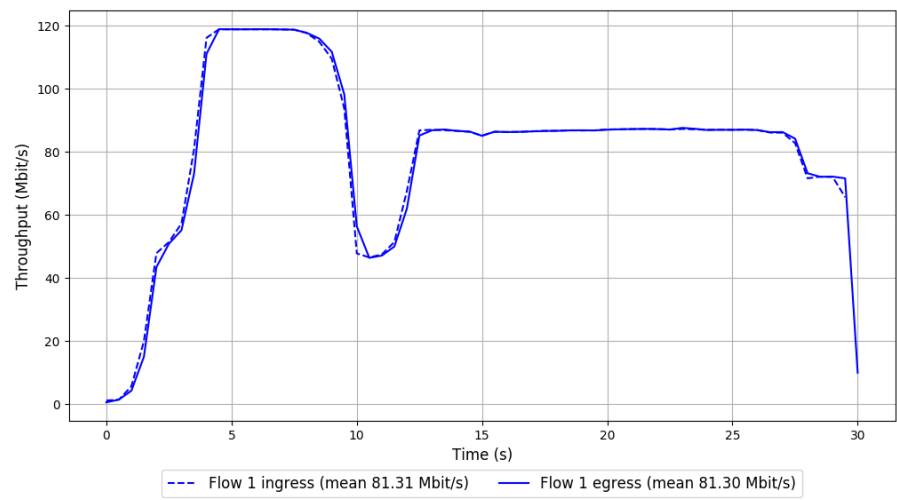
-- Flow 1:

Average throughput: 81.30 Mbit/s

95th percentile per-packet one-way delay: 112.801 ms

Loss rate: 0.00%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-03-20 09:10:12

End at: 2018-03-20 09:10:42

Below is generated by plot.py at 2018-03-20 12:43:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 30.92 Mbit/s

95th percentile per-packet one-way delay: 114.719 ms

Loss rate: 0.00%

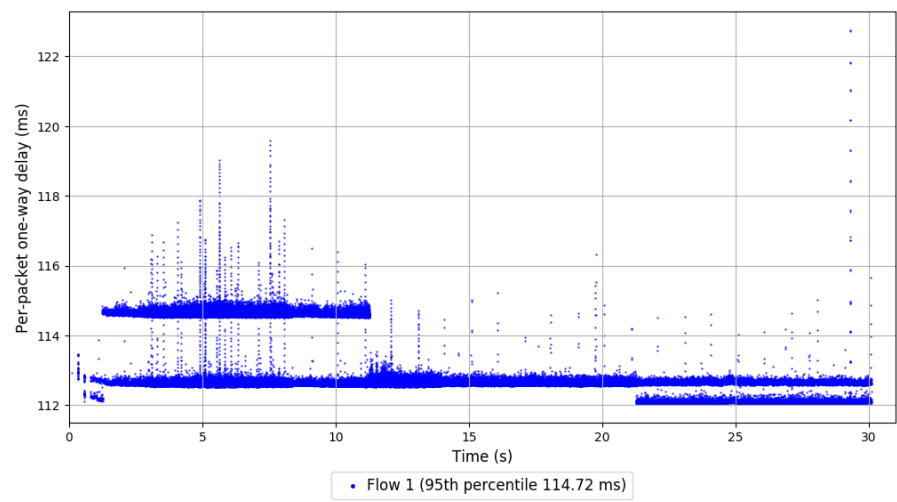
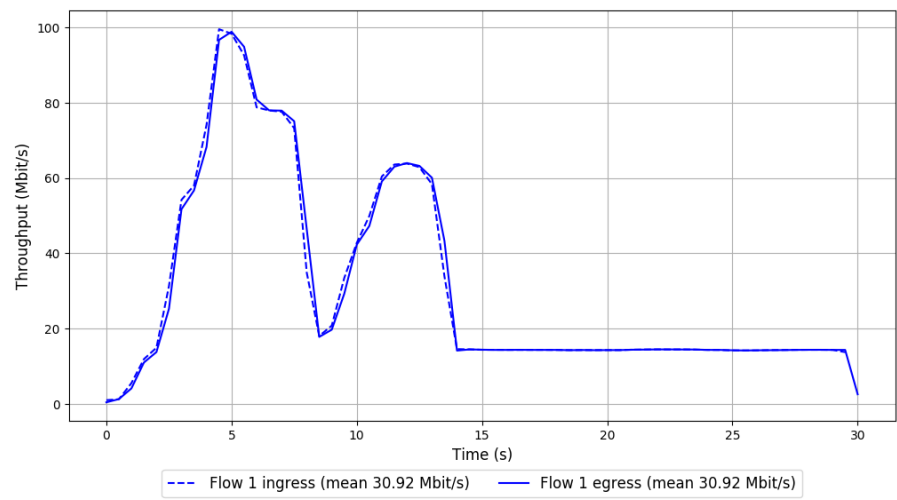
-- Flow 1:

Average throughput: 30.92 Mbit/s

95th percentile per-packet one-way delay: 114.719 ms

Loss rate: 0.00%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-03-20 09:25:28

End at: 2018-03-20 09:25:58

Below is generated by plot.py at 2018-03-20 12:44:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 80.06 Mbit/s

95th percentile per-packet one-way delay: 112.594 ms

Loss rate: 0.00%

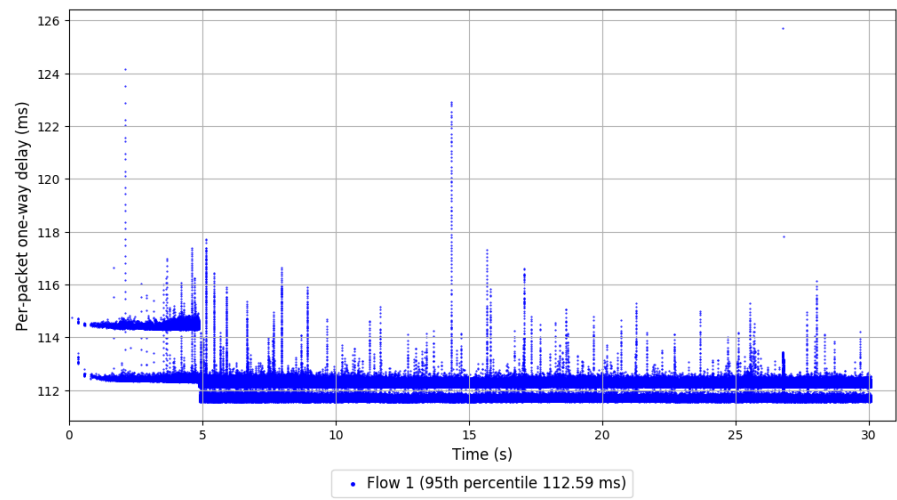
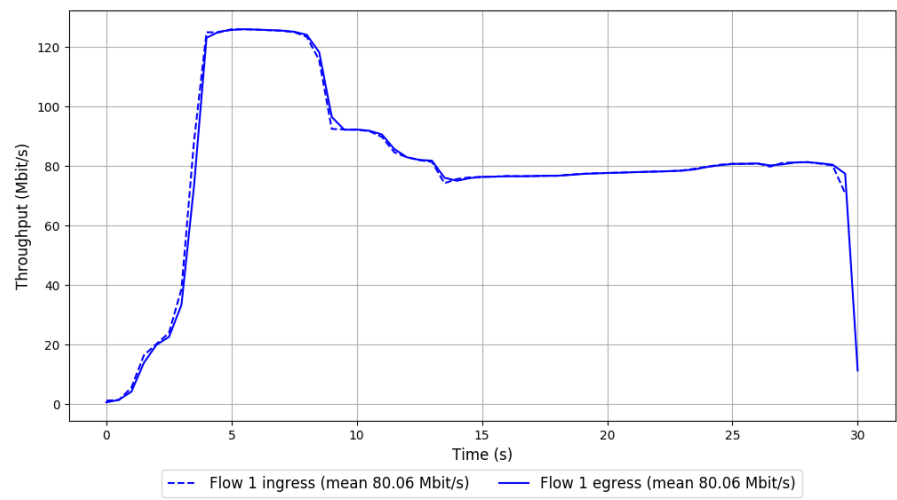
-- Flow 1:

Average throughput: 80.06 Mbit/s

95th percentile per-packet one-way delay: 112.594 ms

Loss rate: 0.00%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-03-20 09:41:09

End at: 2018-03-20 09:41:39

Below is generated by plot.py at 2018-03-20 12:44:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.64 Mbit/s

95th percentile per-packet one-way delay: 112.723 ms

Loss rate: 0.00%

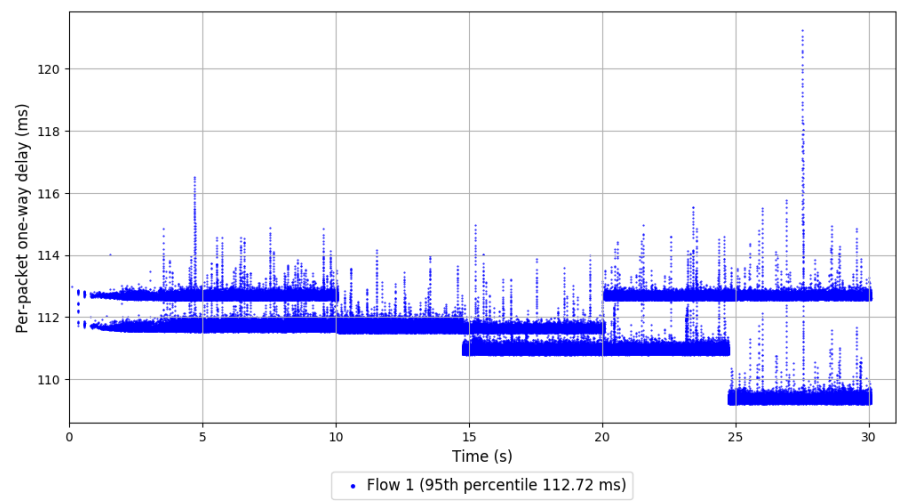
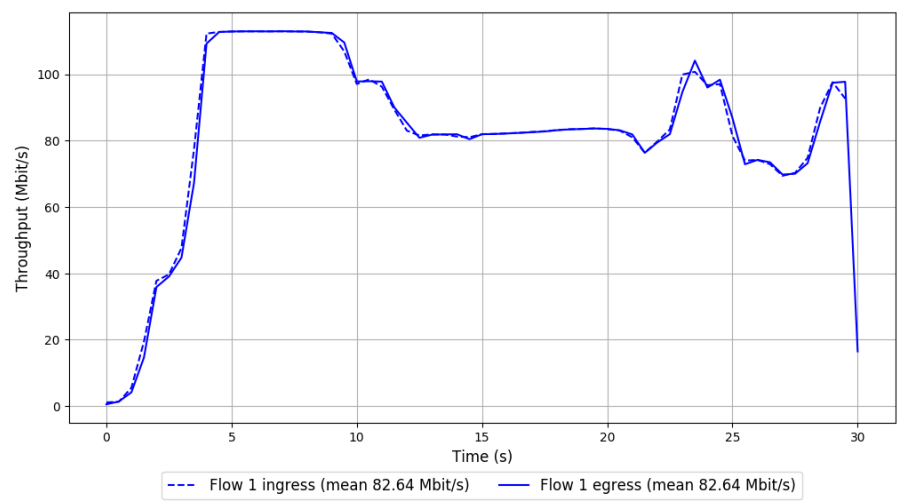
-- Flow 1:

Average throughput: 82.64 Mbit/s

95th percentile per-packet one-way delay: 112.723 ms

Loss rate: 0.00%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-03-20 09:56:44

End at: 2018-03-20 09:57:14

Below is generated by plot.py at 2018-03-20 12:44:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 60.39 Mbit/s

95th percentile per-packet one-way delay: 111.614 ms

Loss rate: 0.17%

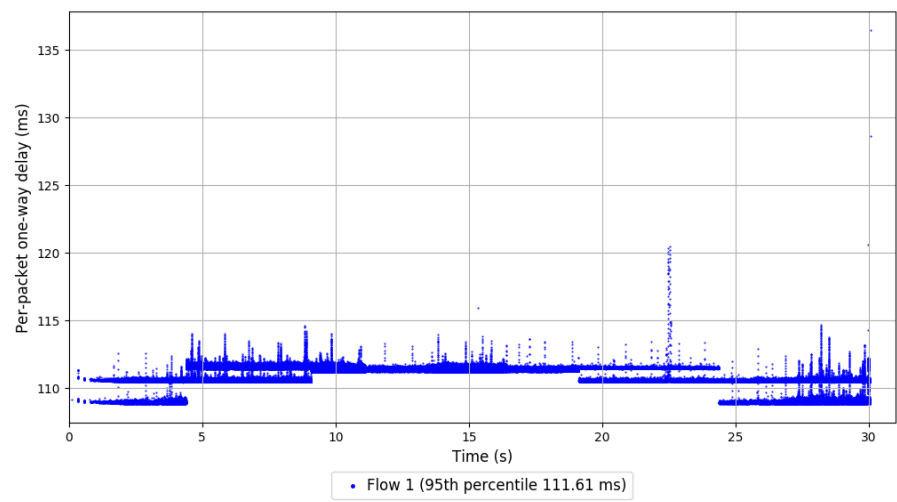
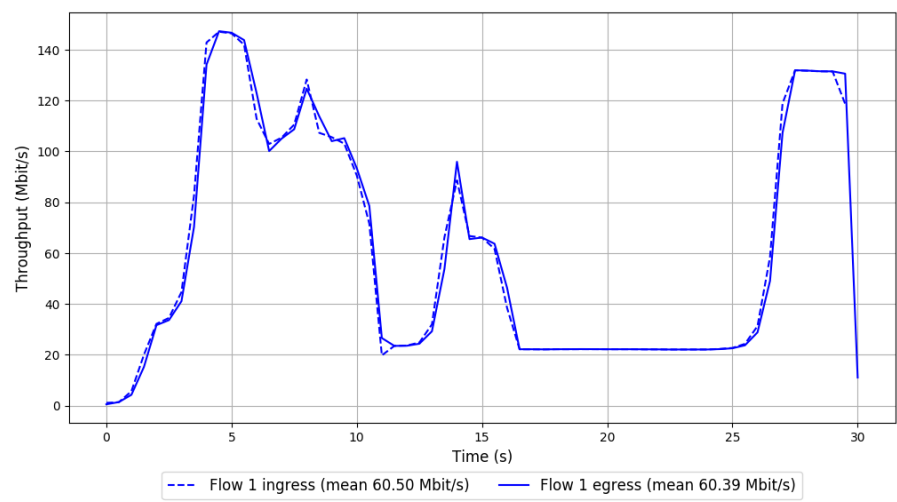
-- Flow 1:

Average throughput: 60.39 Mbit/s

95th percentile per-packet one-way delay: 111.614 ms

Loss rate: 0.17%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-03-20 10:12:08

End at: 2018-03-20 10:12:38

Below is generated by plot.py at 2018-03-20 12:44:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.30 Mbit/s

95th percentile per-packet one-way delay: 112.824 ms

Loss rate: 0.00%

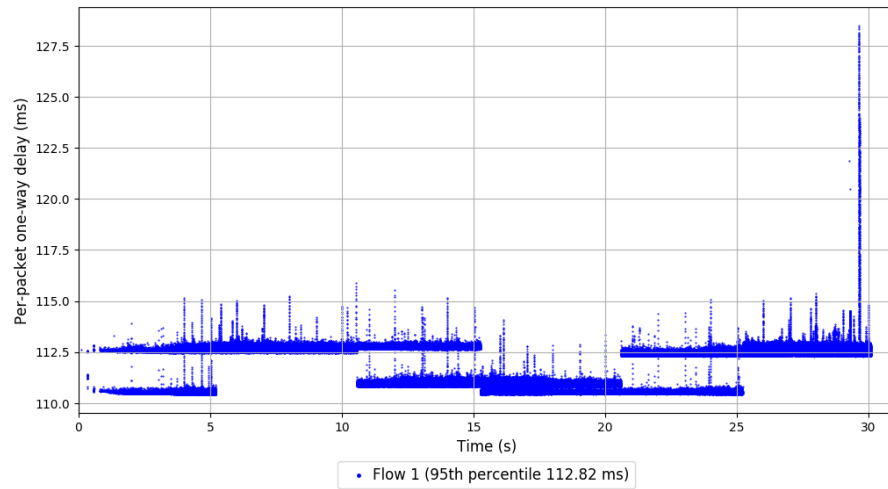
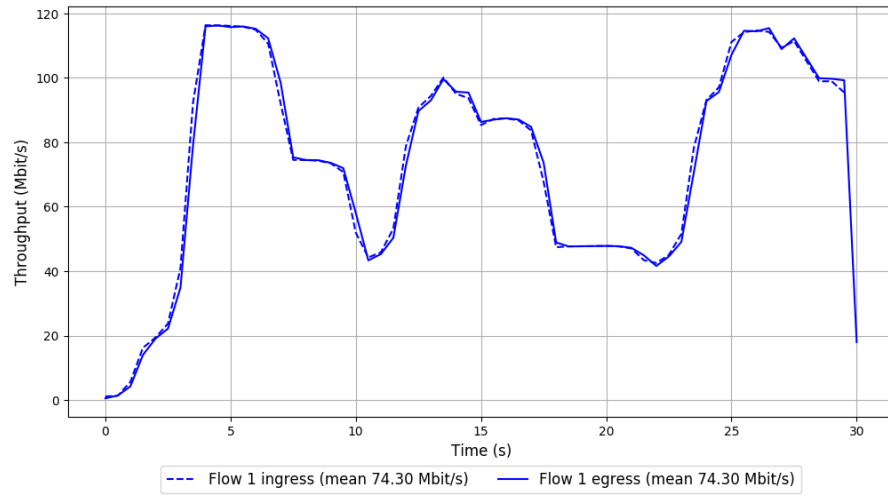
-- Flow 1:

Average throughput: 74.30 Mbit/s

95th percentile per-packet one-way delay: 112.824 ms

Loss rate: 0.00%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-03-20 10:27:22

End at: 2018-03-20 10:27:52

Below is generated by plot.py at 2018-03-20 12:45:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.79 Mbit/s

95th percentile per-packet one-way delay: 112.307 ms

Loss rate: 0.00%

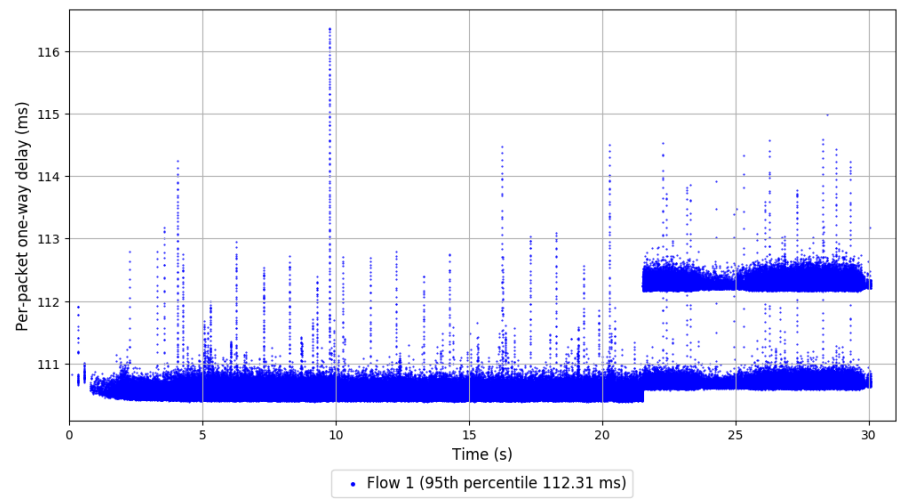
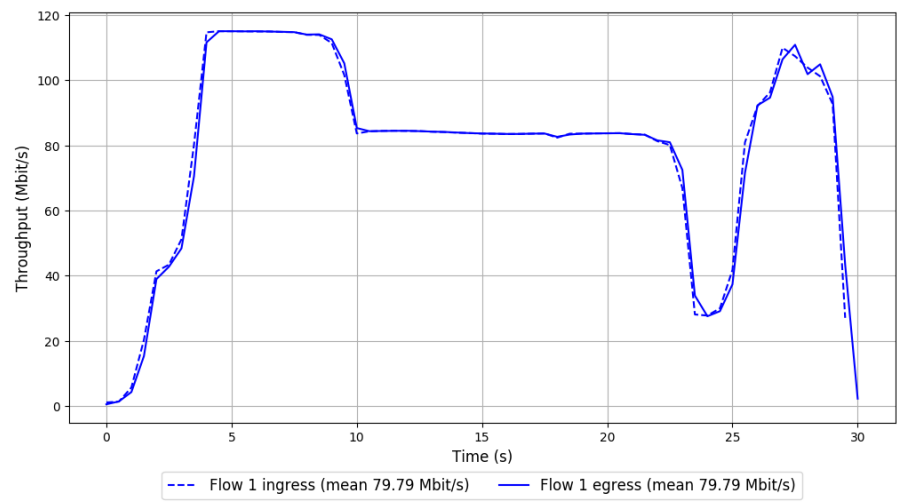
-- Flow 1:

Average throughput: 79.79 Mbit/s

95th percentile per-packet one-way delay: 112.307 ms

Loss rate: 0.00%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-03-20 10:42:49

End at: 2018-03-20 10:43:19

Below is generated by plot.py at 2018-03-20 12:45:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.84 Mbit/s

95th percentile per-packet one-way delay: 112.230 ms

Loss rate: 0.02%

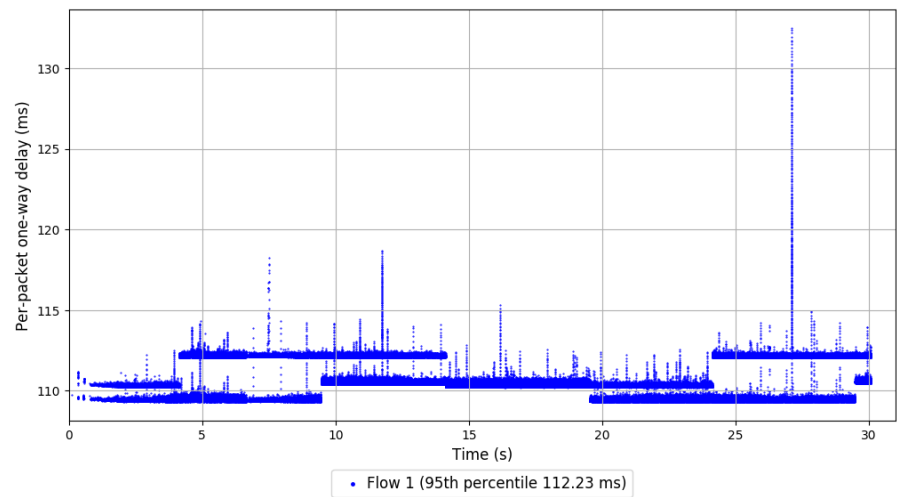
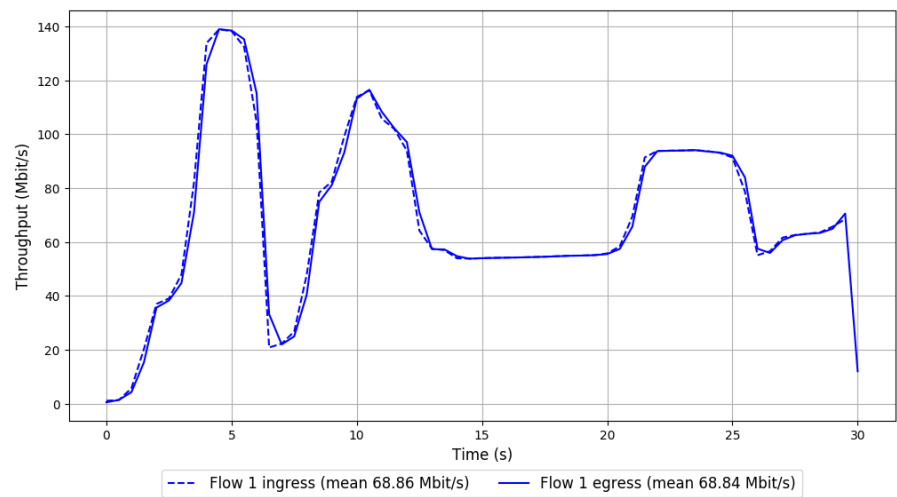
-- Flow 1:

Average throughput: 68.84 Mbit/s

95th percentile per-packet one-way delay: 112.230 ms

Loss rate: 0.02%

Run 10: Report of Copa — Data Link

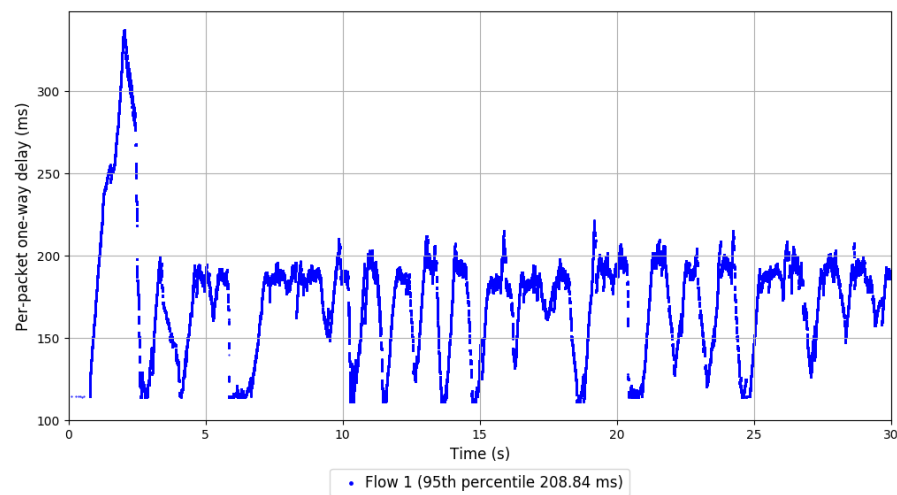
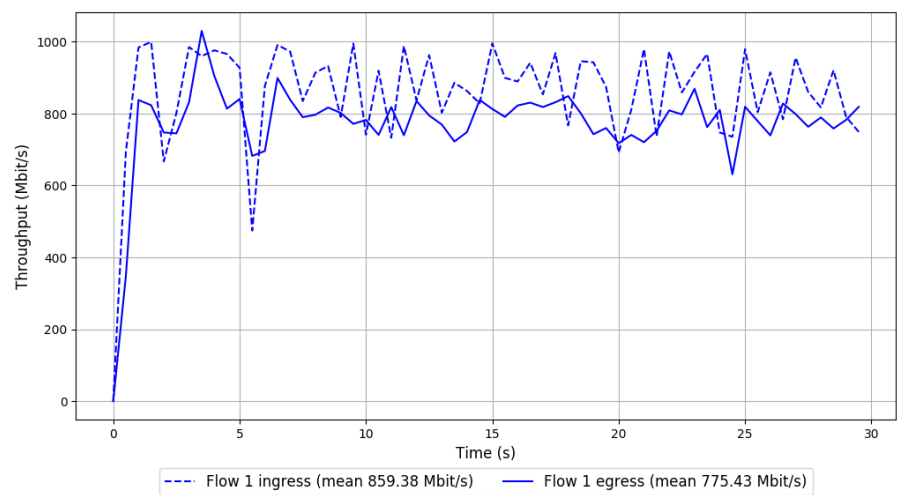


```
Run 1: Statistics of FillP

Start at: 2018-03-20 08:33:33
End at: 2018-03-20 08:34:03

# Below is generated by plot.py at 2018-03-20 12:58:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 775.43 Mbit/s
95th percentile per-packet one-way delay: 208.845 ms
Loss rate: 9.77%
-- Flow 1:
Average throughput: 775.43 Mbit/s
95th percentile per-packet one-way delay: 208.845 ms
Loss rate: 9.77%
```

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-03-20 08:48:51

End at: 2018-03-20 08:49:21

Below is generated by plot.py at 2018-03-20 12:58:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 723.76 Mbit/s

95th percentile per-packet one-way delay: 209.033 ms

Loss rate: 13.16%

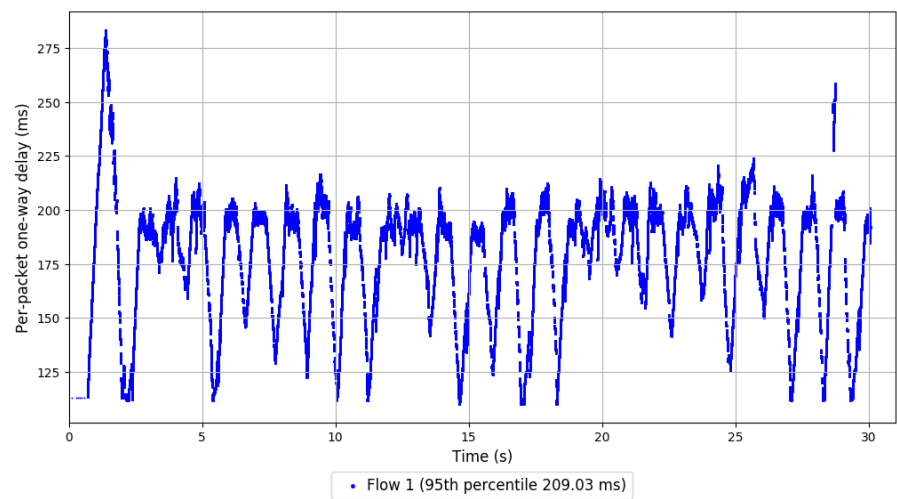
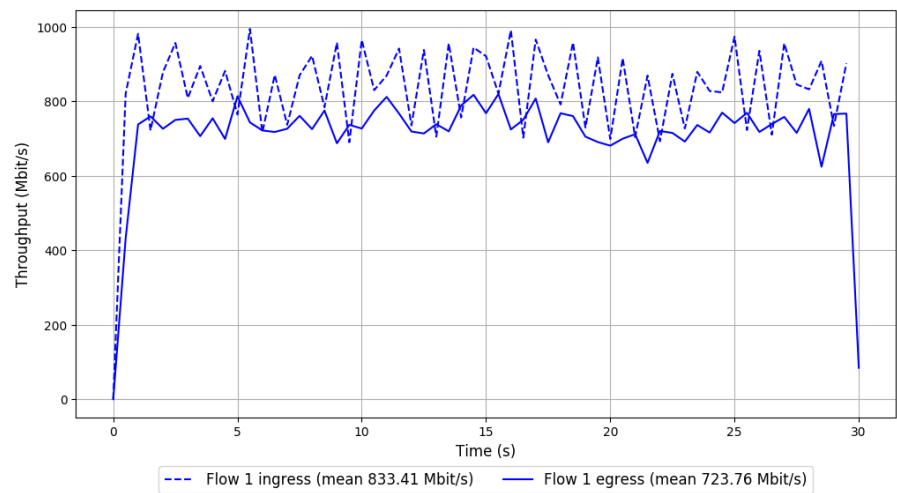
-- Flow 1:

Average throughput: 723.76 Mbit/s

95th percentile per-packet one-way delay: 209.033 ms

Loss rate: 13.16%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-03-20 09:04:02

End at: 2018-03-20 09:04:32

Below is generated by plot.py at 2018-03-20 12:58:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 801.02 Mbit/s

95th percentile per-packet one-way delay: 290.127 ms

Loss rate: 6.37%

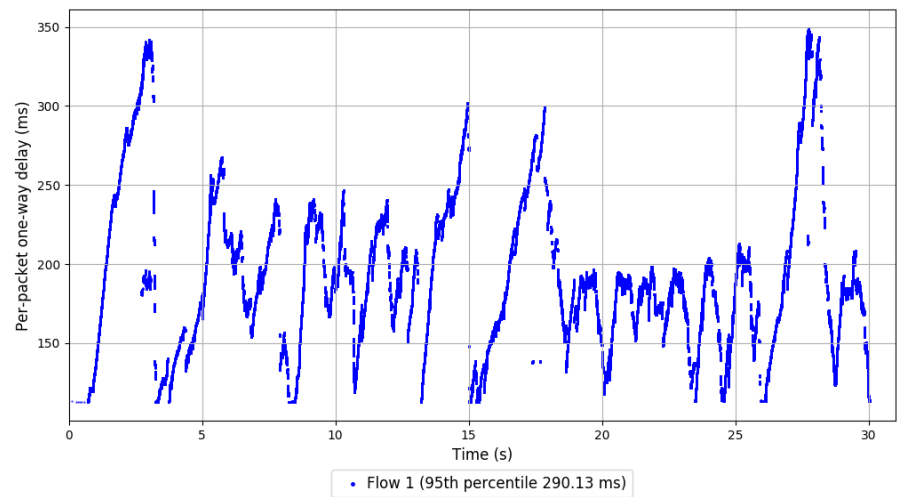
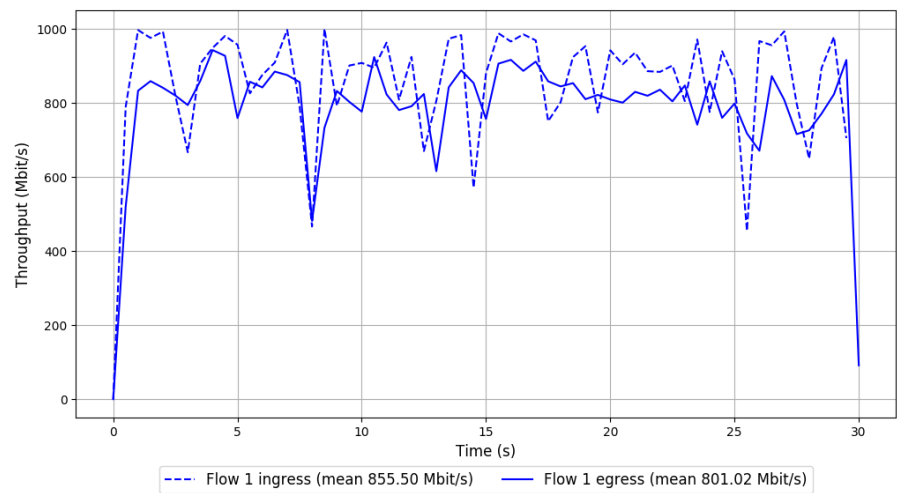
-- Flow 1:

Average throughput: 801.02 Mbit/s

95th percentile per-packet one-way delay: 290.127 ms

Loss rate: 6.37%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-03-20 09:19:16

End at: 2018-03-20 09:19:46

Below is generated by plot.py at 2018-03-20 12:59:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 793.00 Mbit/s

95th percentile per-packet one-way delay: 202.809 ms

Loss rate: 9.29%

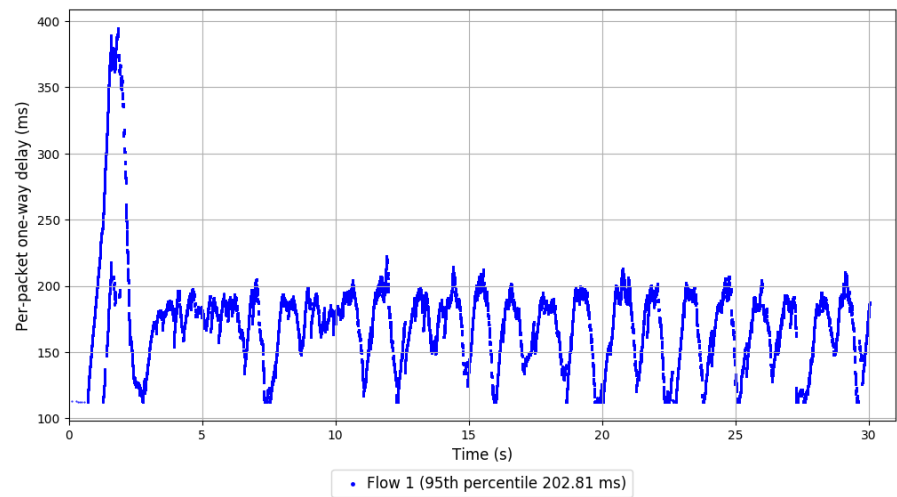
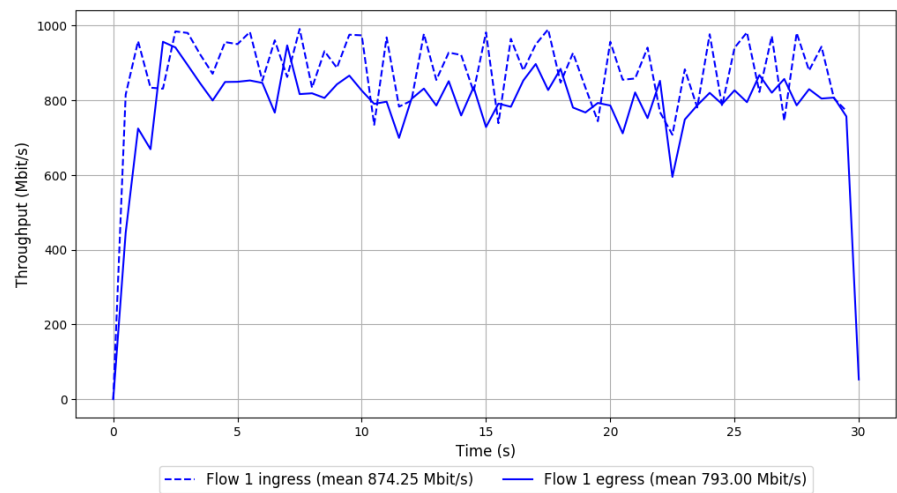
-- Flow 1:

Average throughput: 793.00 Mbit/s

95th percentile per-packet one-way delay: 202.809 ms

Loss rate: 9.29%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-03-20 09:34:51

End at: 2018-03-20 09:35:21

Below is generated by plot.py at 2018-03-20 12:59:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 739.95 Mbit/s

95th percentile per-packet one-way delay: 203.018 ms

Loss rate: 11.98%

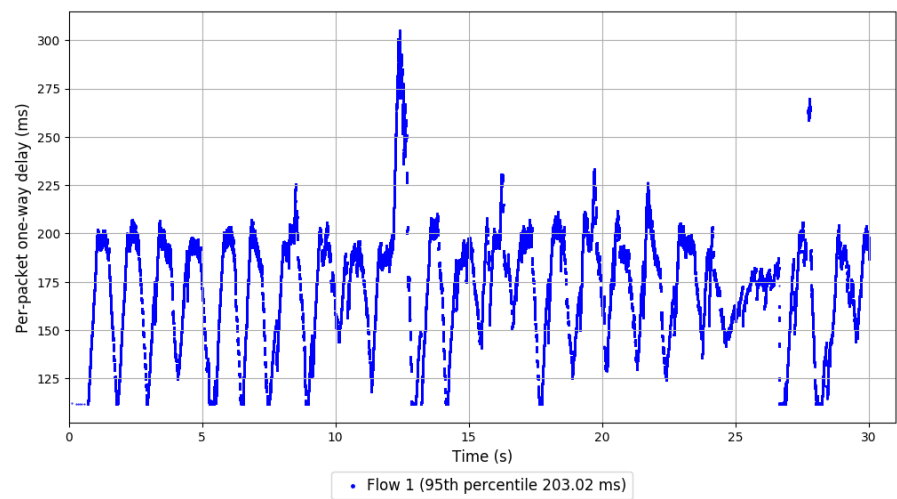
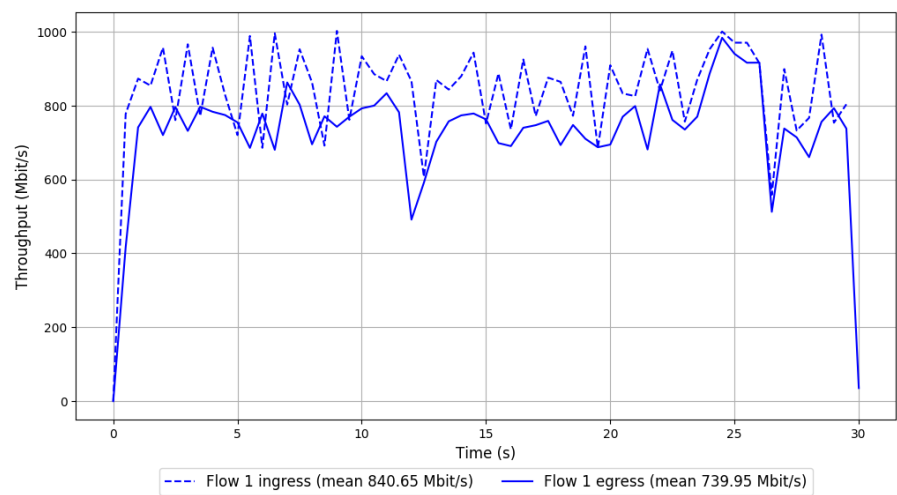
-- Flow 1:

Average throughput: 739.95 Mbit/s

95th percentile per-packet one-way delay: 203.018 ms

Loss rate: 11.98%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-03-20 09:50:33

End at: 2018-03-20 09:51:03

Below is generated by plot.py at 2018-03-20 12:59:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 785.49 Mbit/s

95th percentile per-packet one-way delay: 196.884 ms

Loss rate: 9.12%

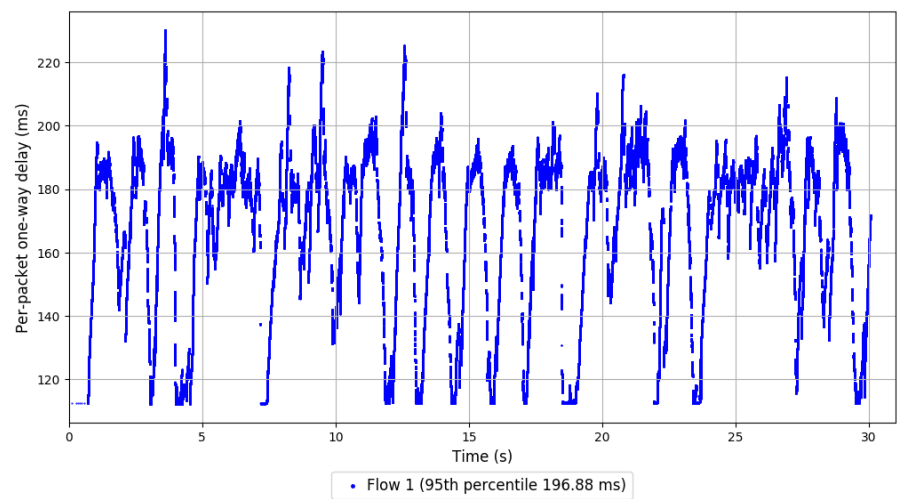
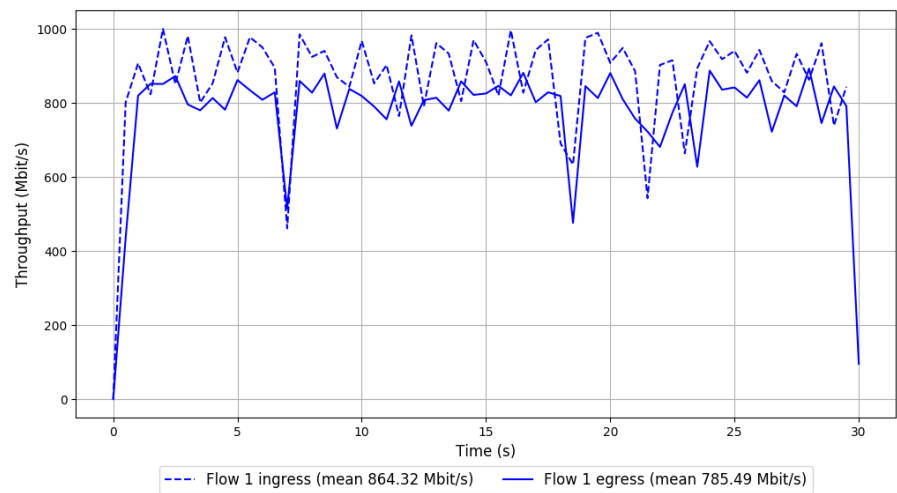
-- Flow 1:

Average throughput: 785.49 Mbit/s

95th percentile per-packet one-way delay: 196.884 ms

Loss rate: 9.12%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-03-20 10:06:01

End at: 2018-03-20 10:06:31

Below is generated by plot.py at 2018-03-20 12:59:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 742.54 Mbit/s

95th percentile per-packet one-way delay: 204.605 ms

Loss rate: 11.47%

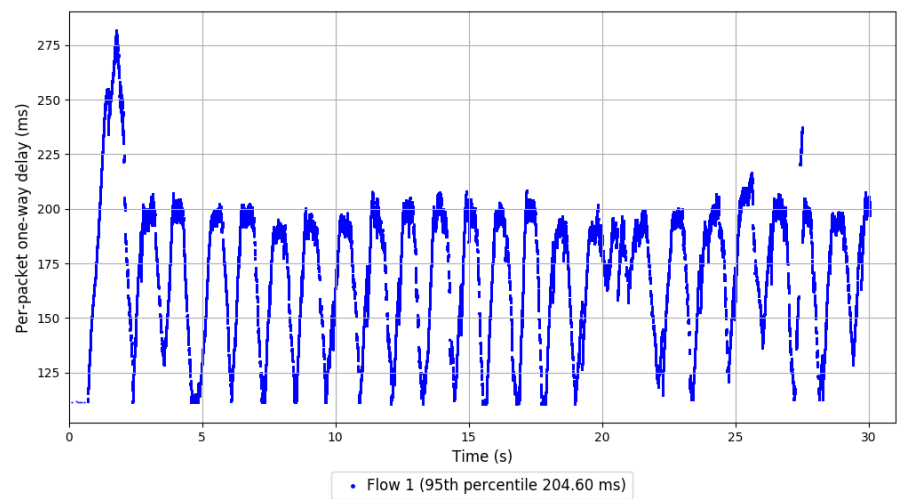
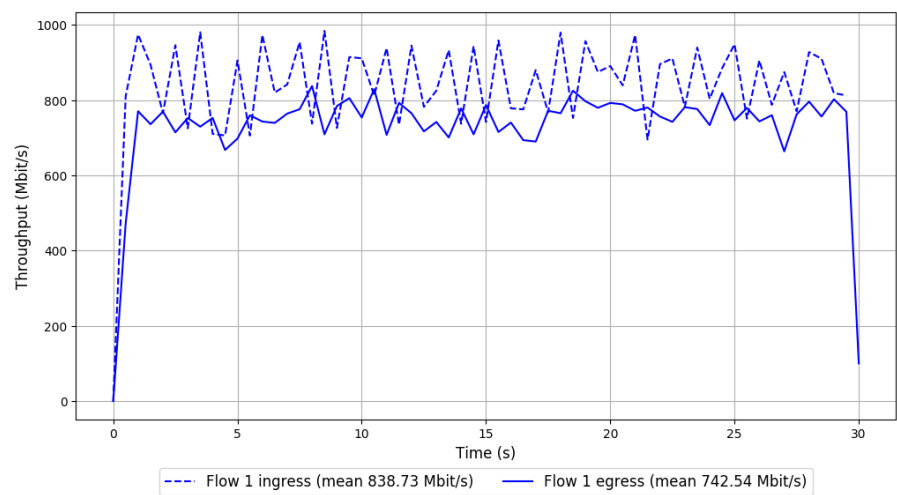
-- Flow 1:

Average throughput: 742.54 Mbit/s

95th percentile per-packet one-way delay: 204.605 ms

Loss rate: 11.47%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-03-20 10:21:06

End at: 2018-03-20 10:21:36

Below is generated by plot.py at 2018-03-20 12:59:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 750.64 Mbit/s

95th percentile per-packet one-way delay: 199.187 ms

Loss rate: 10.99%

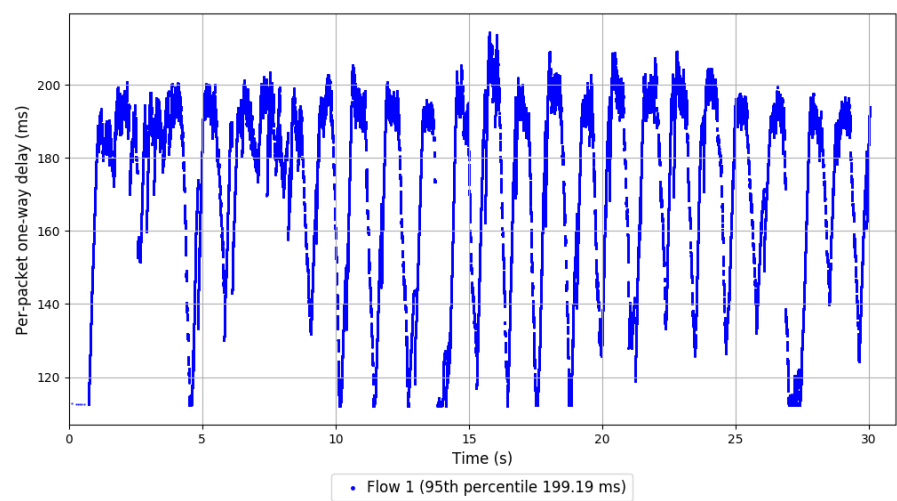
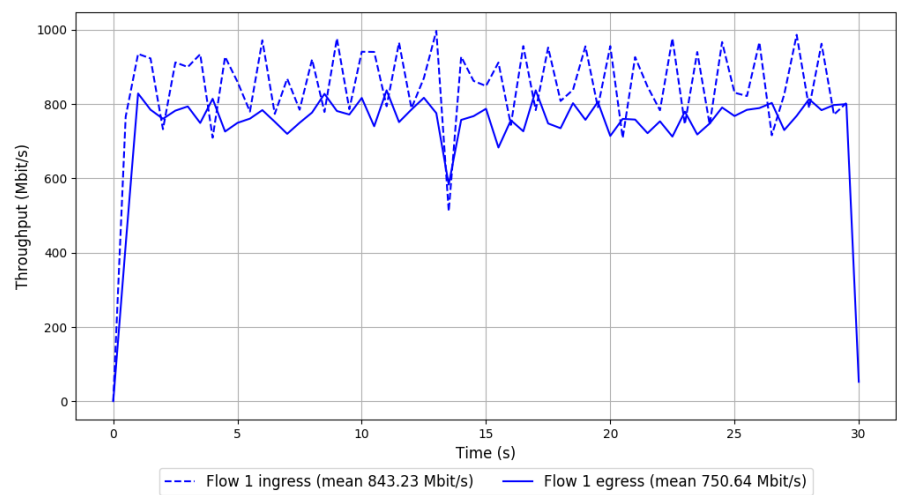
-- Flow 1:

Average throughput: 750.64 Mbit/s

95th percentile per-packet one-way delay: 199.187 ms

Loss rate: 10.99%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-03-20 10:36:39

End at: 2018-03-20 10:37:09

Below is generated by plot.py at 2018-03-20 13:13:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 793.84 Mbit/s

95th percentile per-packet one-way delay: 189.773 ms

Loss rate: 8.74%

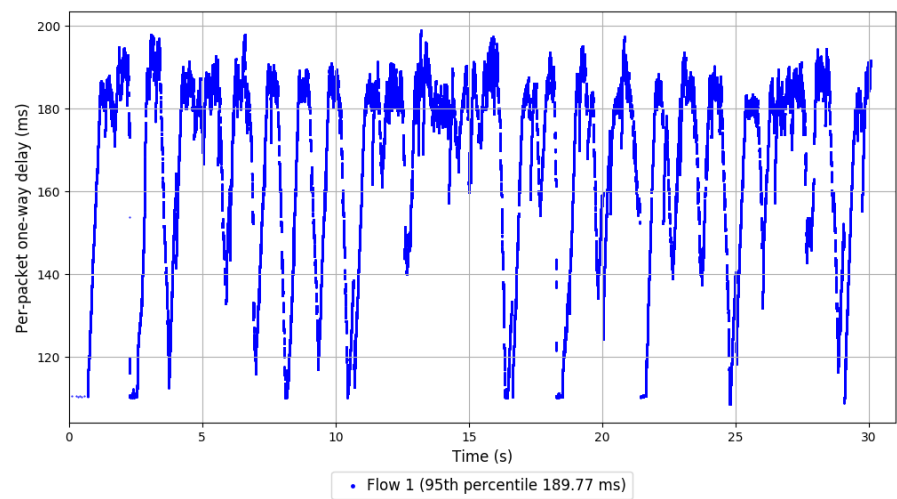
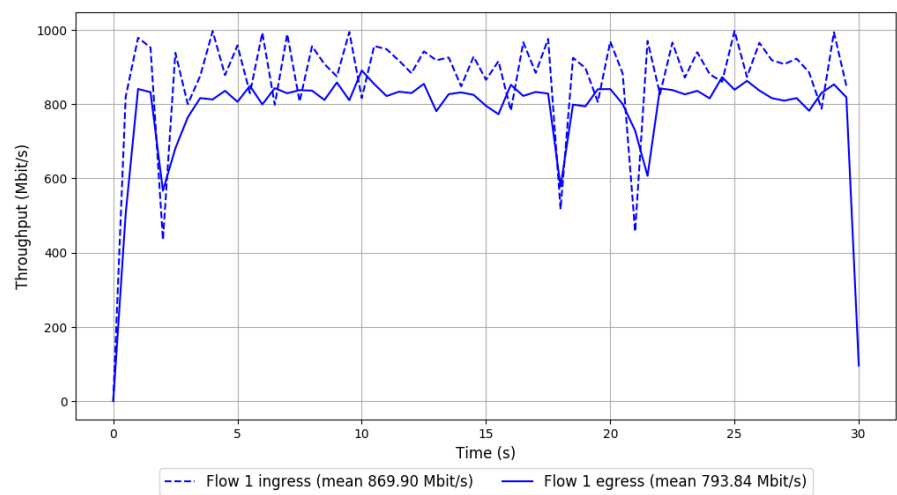
-- Flow 1:

Average throughput: 793.84 Mbit/s

95th percentile per-packet one-way delay: 189.773 ms

Loss rate: 8.74%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-03-20 10:52:10

End at: 2018-03-20 10:52:40

Below is generated by plot.py at 2018-03-20 13:13:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 792.23 Mbit/s

95th percentile per-packet one-way delay: 201.827 ms

Loss rate: 9.12%

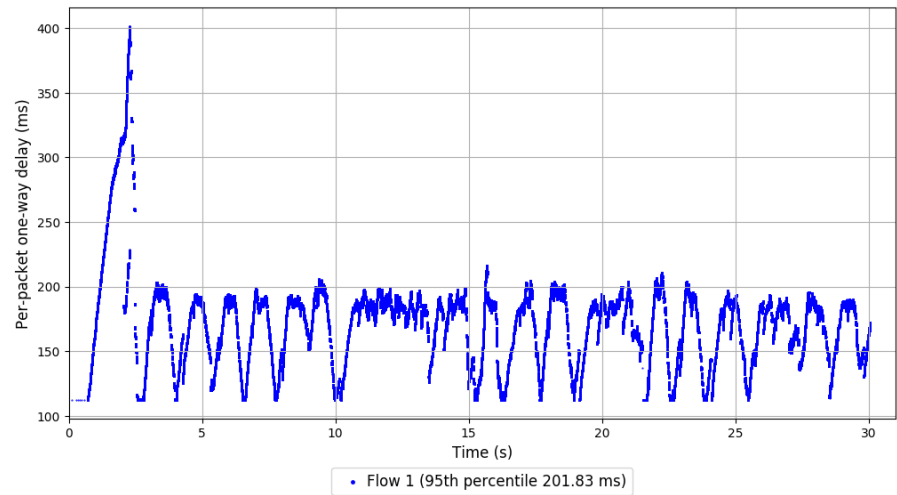
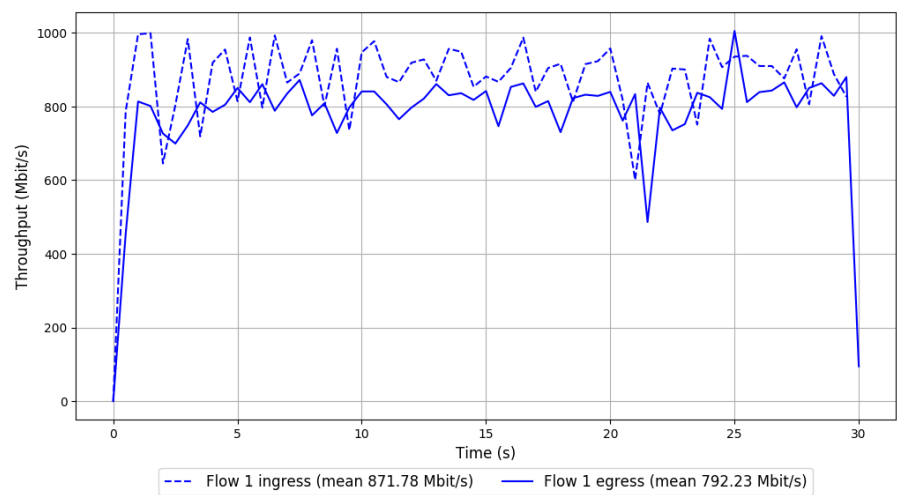
-- Flow 1:

Average throughput: 792.23 Mbit/s

95th percentile per-packet one-way delay: 201.827 ms

Loss rate: 9.12%

Run 10: Report of FillP — Data Link

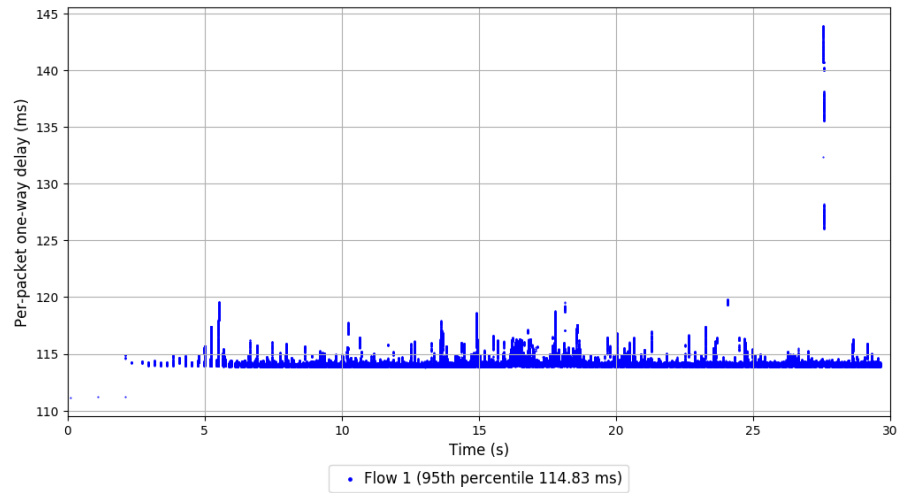
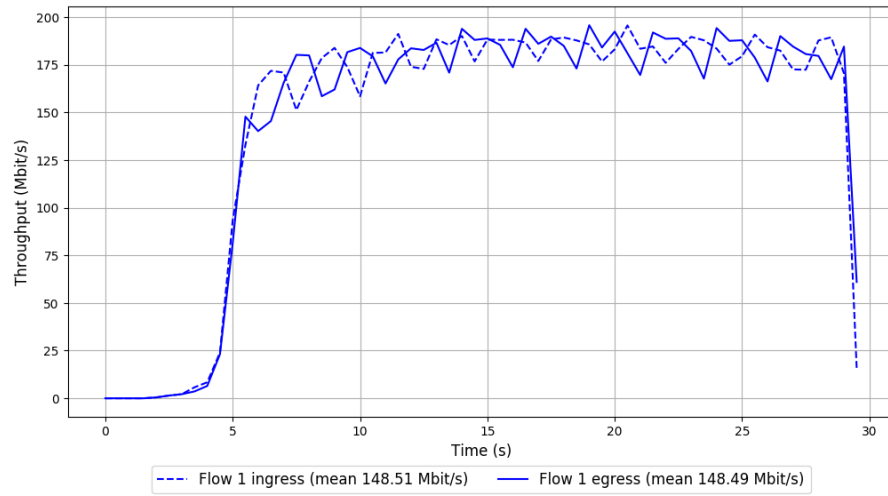


```
Run 1: Statistics of Indigo-1-32

Start at: 2018-03-20 08:21:57
End at: 2018-03-20 08:22:27

# Below is generated by plot.py at 2018-03-20 13:13:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 148.49 Mbit/s
95th percentile per-packet one-way delay: 114.830 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 148.49 Mbit/s
95th percentile per-packet one-way delay: 114.830 ms
Loss rate: 0.00%
```

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



Run 2: Statistics of Indigo-1-32

Start at: 2018-03-20 08:37:27

End at: 2018-03-20 08:37:57

Below is generated by plot.py at 2018-03-20 13:13:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 197.95 Mbit/s

95th percentile per-packet one-way delay: 113.595 ms

Loss rate: 0.00%

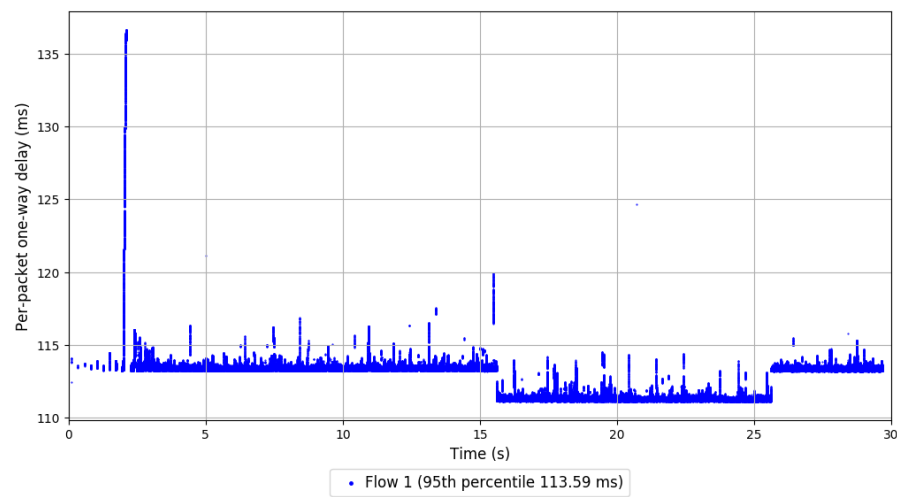
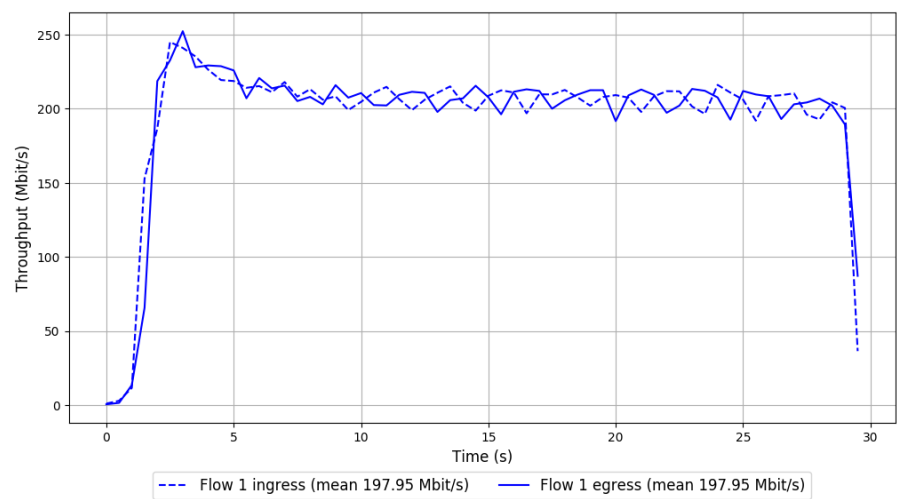
-- Flow 1:

Average throughput: 197.95 Mbit/s

95th percentile per-packet one-way delay: 113.595 ms

Loss rate: 0.00%

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



Run 3: Statistics of Indigo-1-32

Start at: 2018-03-20 08:52:39

End at: 2018-03-20 08:53:09

Below is generated by plot.py at 2018-03-20 13:13:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 208.75 Mbit/s

95th percentile per-packet one-way delay: 112.952 ms

Loss rate: 0.00%

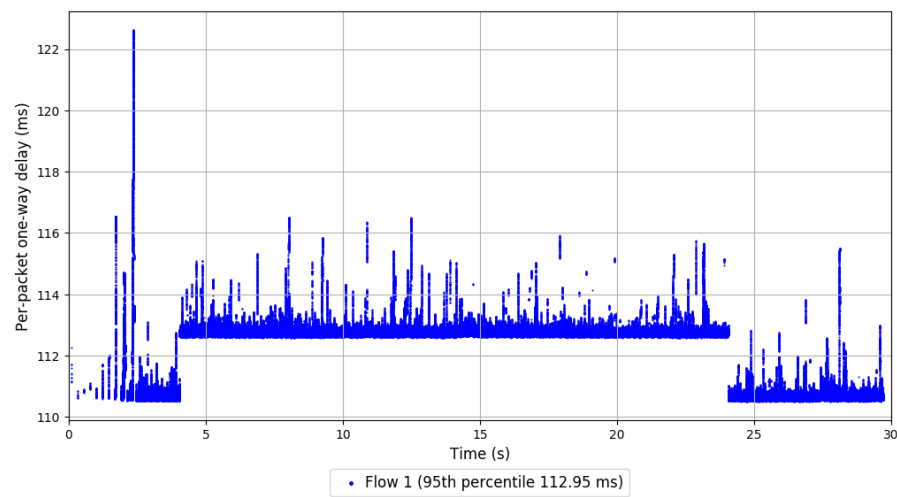
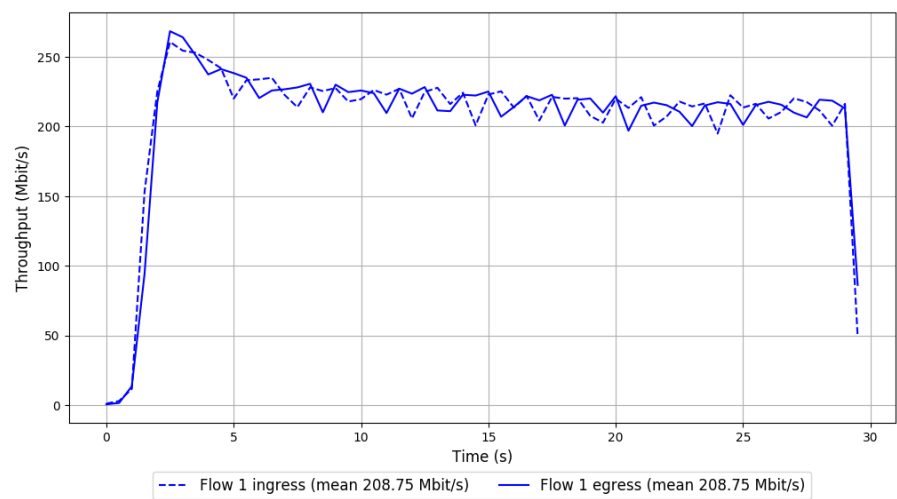
-- Flow 1:

Average throughput: 208.75 Mbit/s

95th percentile per-packet one-way delay: 112.952 ms

Loss rate: 0.00%

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



Run 4: Statistics of Indigo-1-32

Start at: 2018-03-20 09:07:54

End at: 2018-03-20 09:08:24

Below is generated by plot.py at 2018-03-20 13:13:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 153.00 Mbit/s

95th percentile per-packet one-way delay: 112.770 ms

Loss rate: 0.00%

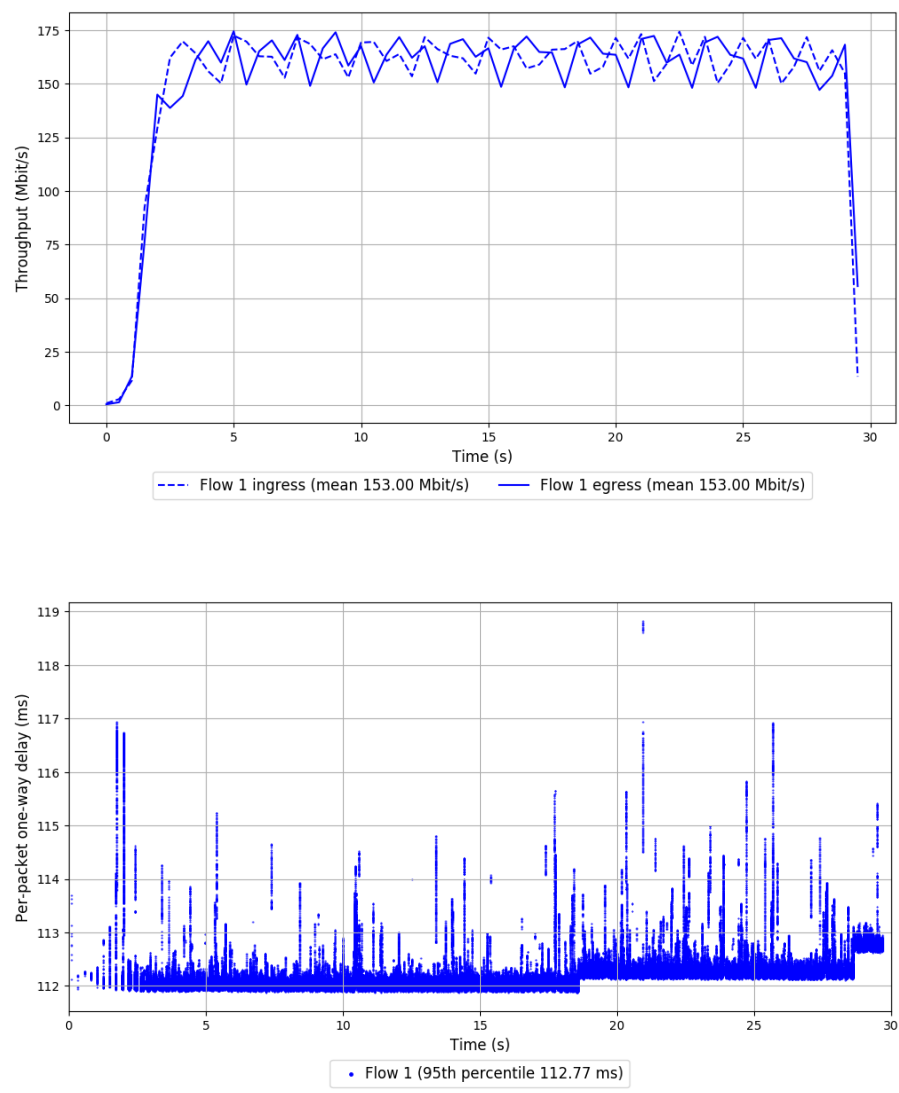
-- Flow 1:

Average throughput: 153.00 Mbit/s

95th percentile per-packet one-way delay: 112.770 ms

Loss rate: 0.00%

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



Run 5: Statistics of Indigo-1-32

Start at: 2018-03-20 09:23:10

End at: 2018-03-20 09:23:40

Below is generated by plot.py at 2018-03-20 13:13:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 147.43 Mbit/s

95th percentile per-packet one-way delay: 112.386 ms

Loss rate: 0.00%

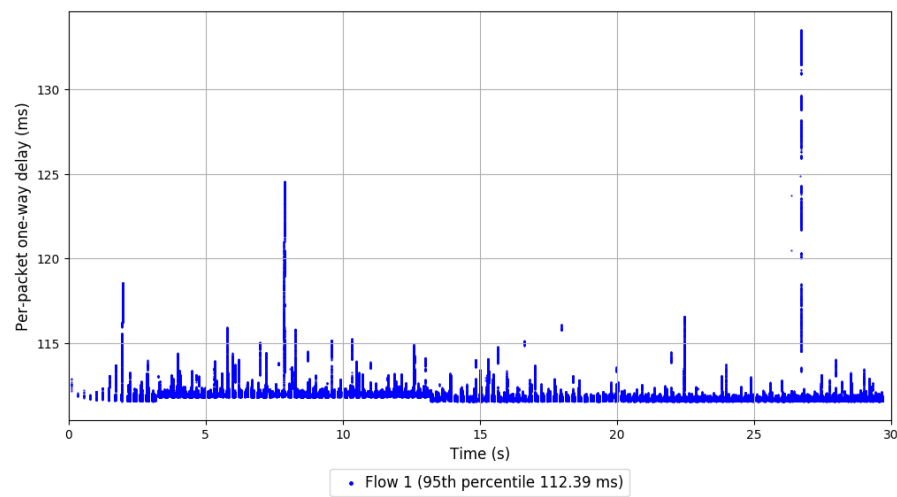
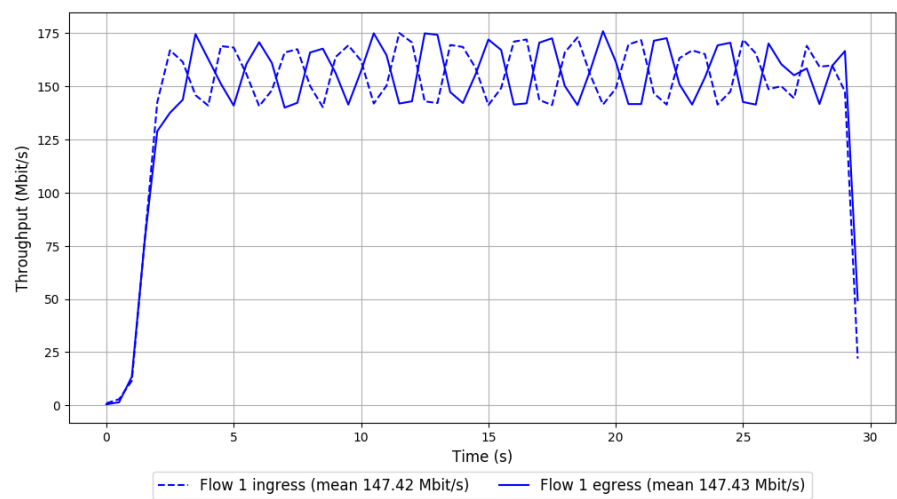
-- Flow 1:

Average throughput: 147.43 Mbit/s

95th percentile per-packet one-way delay: 112.386 ms

Loss rate: 0.00%

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



Run 6: Statistics of Indigo-1-32

Start at: 2018-03-20 09:38:48

End at: 2018-03-20 09:39:19

Below is generated by plot.py at 2018-03-20 13:13:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 172.52 Mbit/s

95th percentile per-packet one-way delay: 111.665 ms

Loss rate: 0.00%

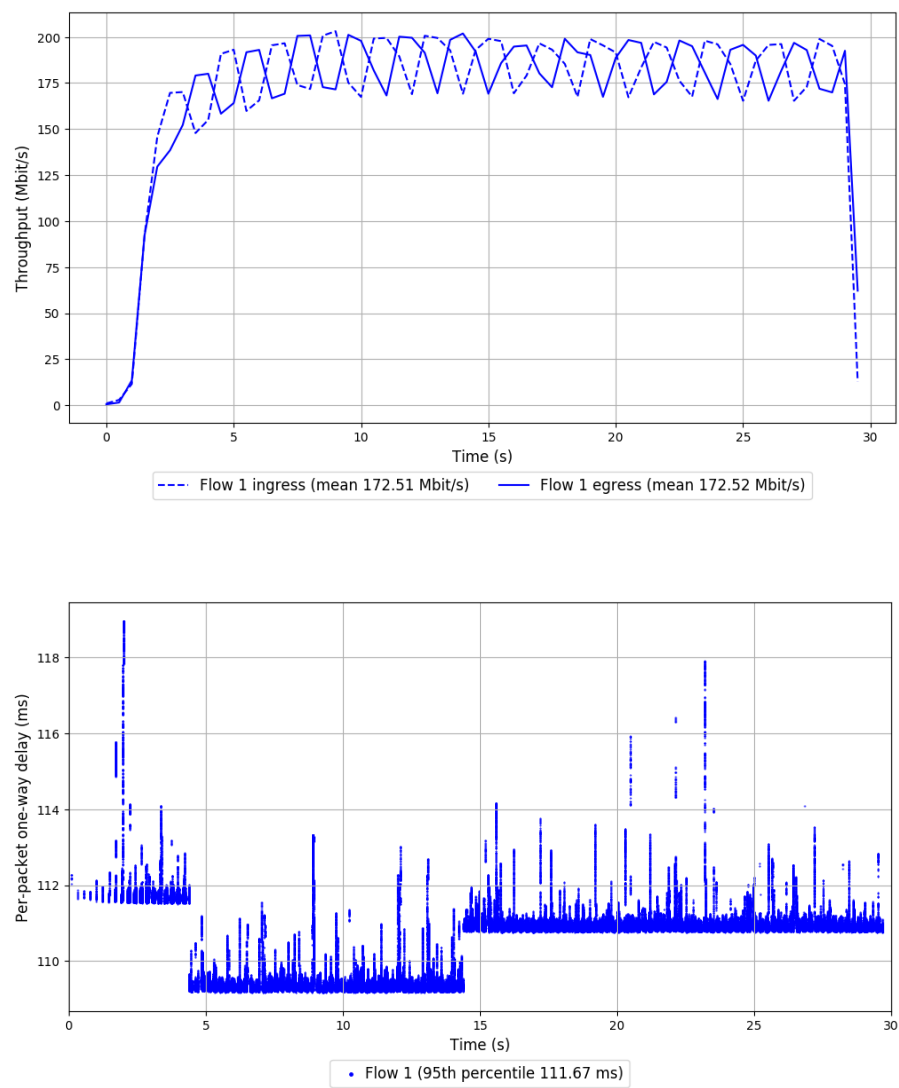
-- Flow 1:

Average throughput: 172.52 Mbit/s

95th percentile per-packet one-way delay: 111.665 ms

Loss rate: 0.00%

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



Run 7: Statistics of Indigo-1-32

Start at: 2018-03-20 09:54:24

End at: 2018-03-20 09:54:54

Below is generated by plot.py at 2018-03-20 13:13:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 162.73 Mbit/s

95th percentile per-packet one-way delay: 111.490 ms

Loss rate: 0.00%

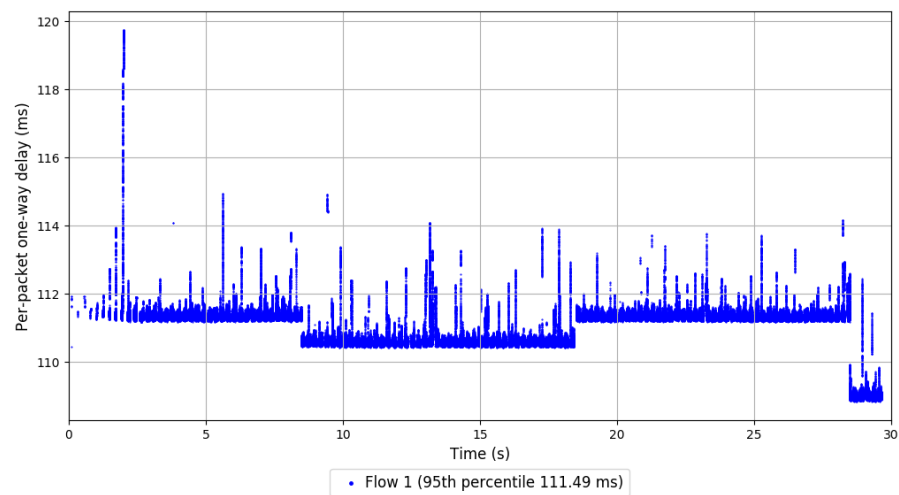
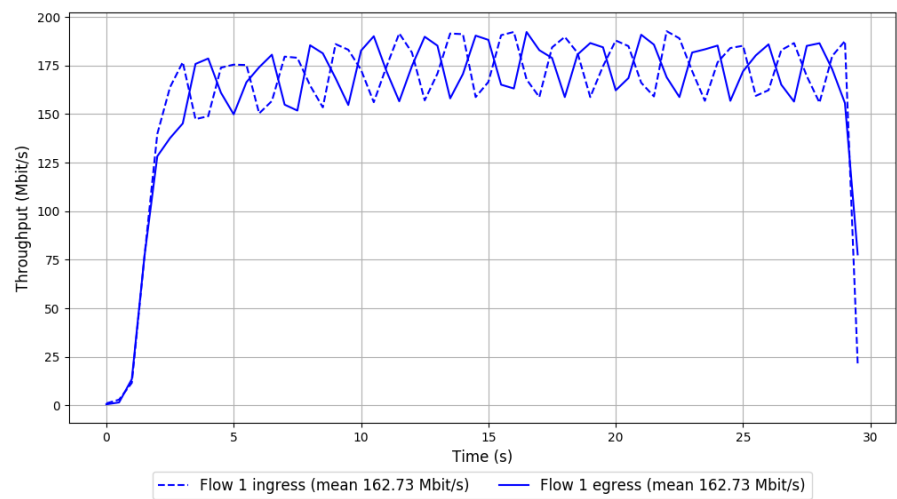
-- Flow 1:

Average throughput: 162.73 Mbit/s

95th percentile per-packet one-way delay: 111.490 ms

Loss rate: 0.00%

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



Run 8: Statistics of Indigo-1-32

Start at: 2018-03-20 10:09:50

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

Below is generated by plot.py at 2018-03-20 13:13:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 151.71 Mbit/s

95th percentile per-packet one-way delay: 112.559 ms

Loss rate: 0.00%

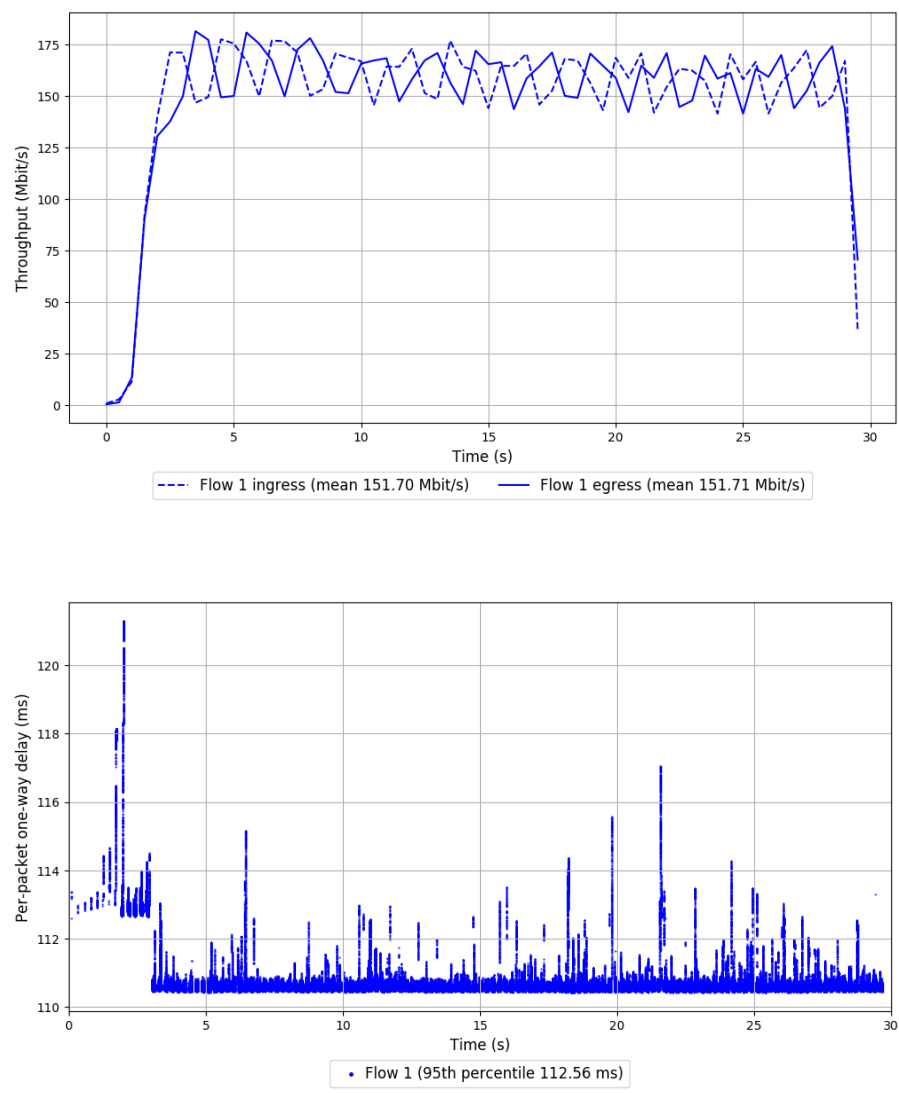
-- Flow 1:

Average throughput: 151.71 Mbit/s

95th percentile per-packet one-way delay: 112.559 ms

Loss rate: 0.00%

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



Run 9: Statistics of Indigo-1-32

Start at: 2018-03-20 10:24:59

End at: 2018-03-20 10:25:29

Below is generated by plot.py at 2018-03-20 13:13:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 211.12 Mbit/s

95th percentile per-packet one-way delay: 112.895 ms

Loss rate: 0.00%

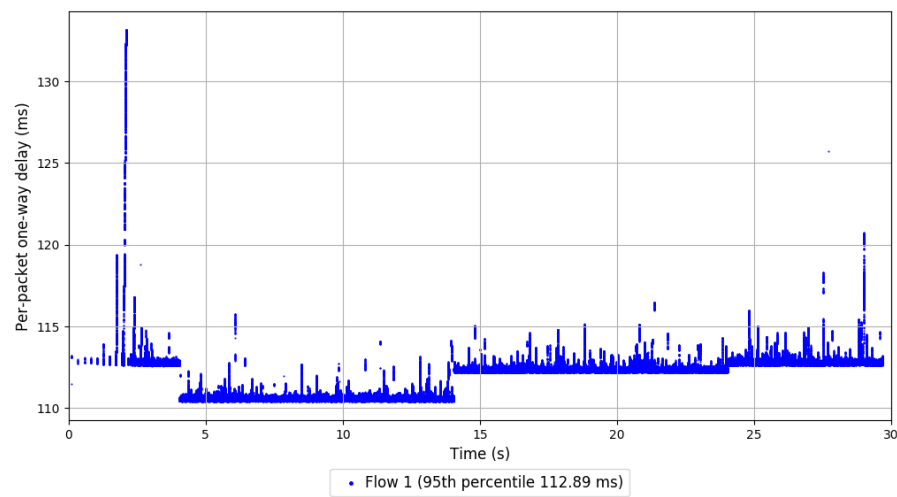
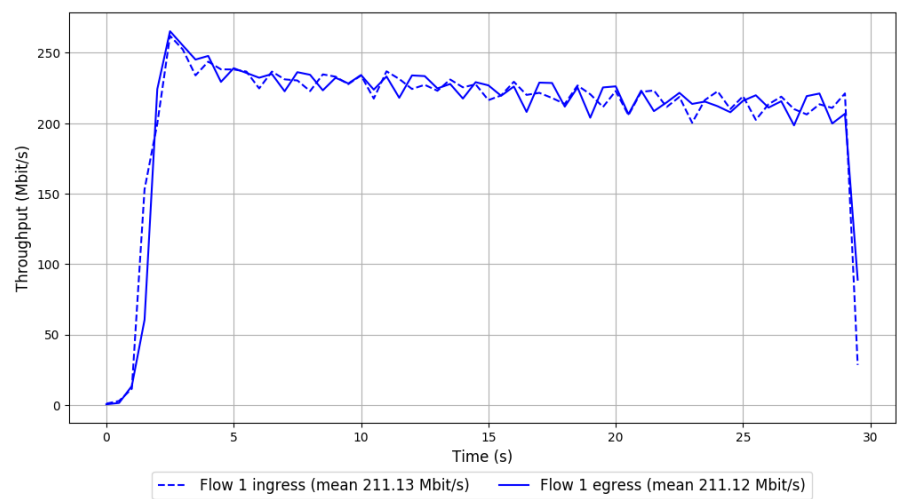
-- Flow 1:

Average throughput: 211.12 Mbit/s

95th percentile per-packet one-way delay: 112.895 ms

Loss rate: 0.00%

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



Run 10: Statistics of Indigo-1-32

Start at: 2018-03-20 10:40:30

End at: 2018-03-20 10:41:00

Below is generated by plot.py at 2018-03-20 13:13:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 146.40 Mbit/s

95th percentile per-packet one-way delay: 112.384 ms

Loss rate: 0.00%

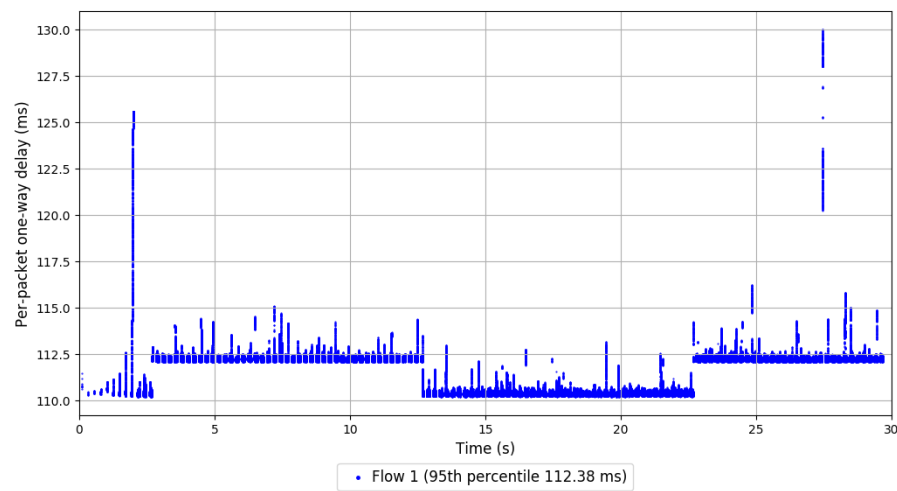
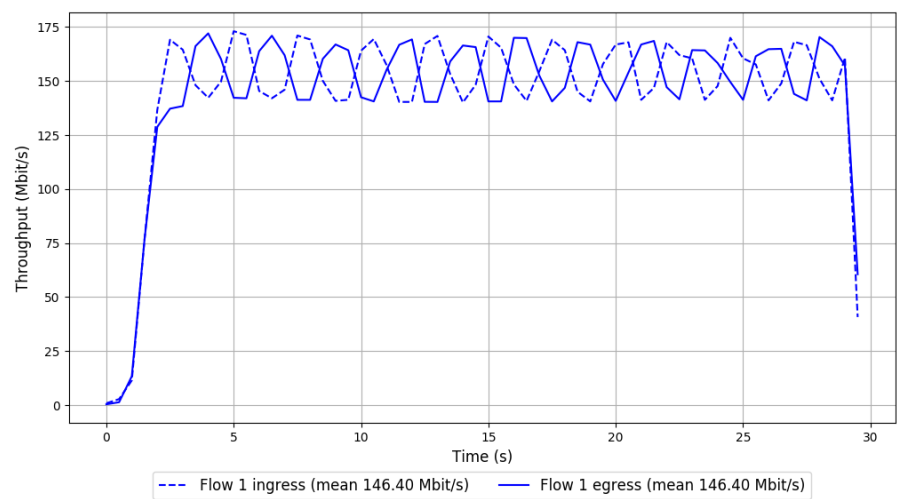
-- Flow 1:

Average throughput: 146.40 Mbit/s

95th percentile per-packet one-way delay: 112.384 ms

Loss rate: 0.00%

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

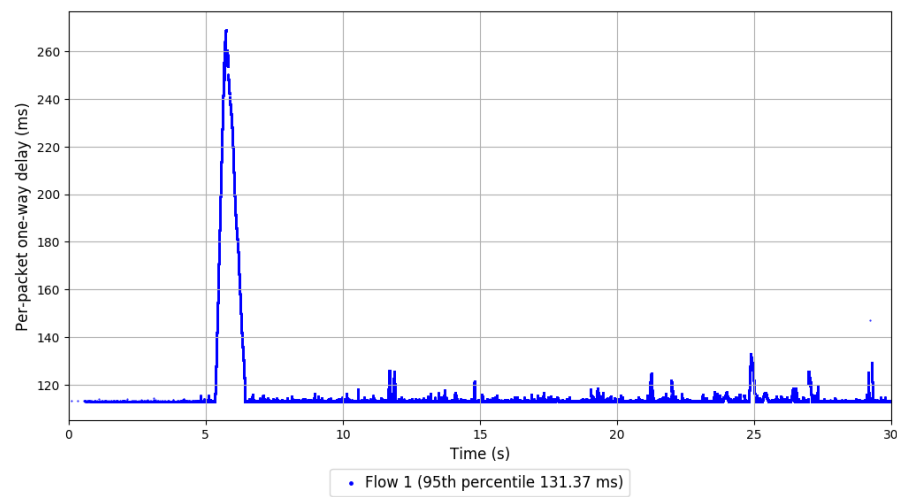
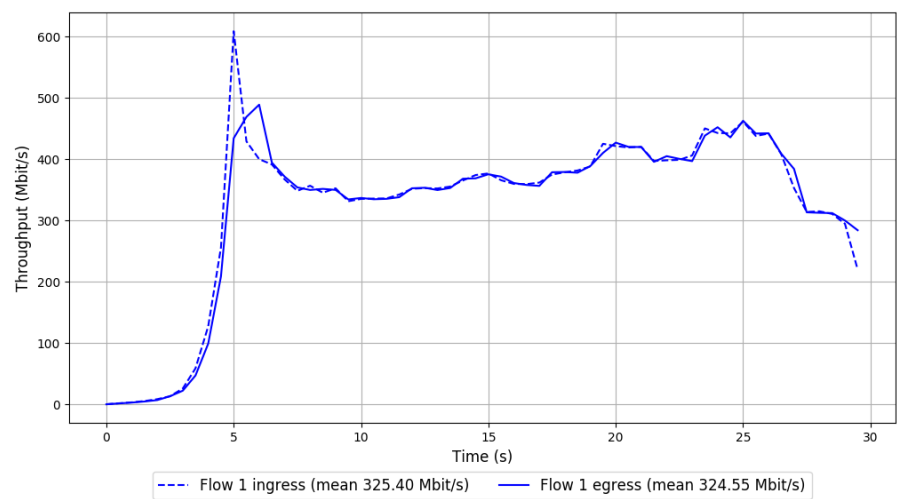


```
Run 1: Statistics of Vivace-latency

Start at: 2018-03-20 08:28:15
End at: 2018-03-20 08:28:45

# Below is generated by plot.py at 2018-03-20 13:13:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 324.55 Mbit/s
95th percentile per-packet one-way delay: 131.370 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 324.55 Mbit/s
95th percentile per-packet one-way delay: 131.370 ms
Loss rate: 0.26%
```

Run 1: Report of Vivace-latency — Data Link



Run 2: Statistics of Vivace-latency

Start at: 2018-03-20 08:43:37

End at: 2018-03-20 08:44:07

Below is generated by plot.py at 2018-03-20 13:13:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 303.26 Mbit/s

95th percentile per-packet one-way delay: 117.161 ms

Loss rate: 0.37%

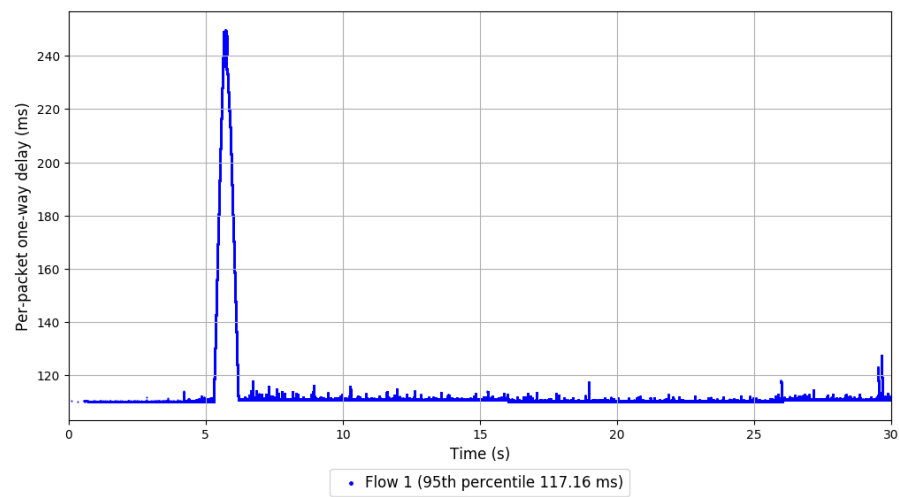
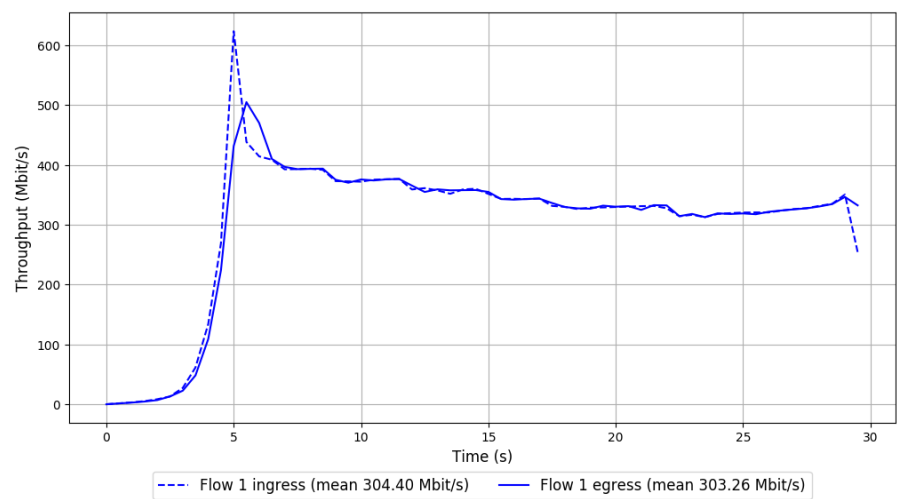
-- Flow 1:

Average throughput: 303.26 Mbit/s

95th percentile per-packet one-way delay: 117.161 ms

Loss rate: 0.37%

Run 2: Report of Vivace-latency — Data Link



Run 3: Statistics of Vivace-latency

Start at: 2018-03-20 08:58:57

End at: 2018-03-20 08:59:27

Below is generated by plot.py at 2018-03-20 13:13:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 272.90 Mbit/s

95th percentile per-packet one-way delay: 116.762 ms

Loss rate: 0.00%

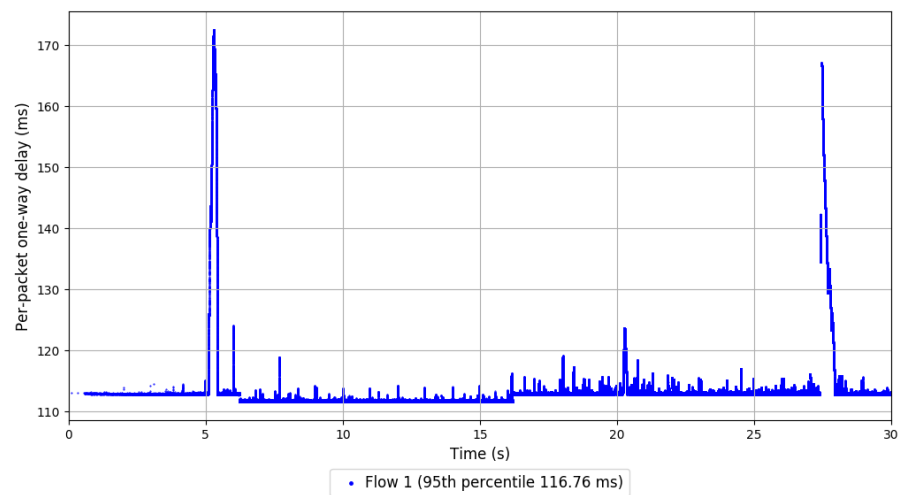
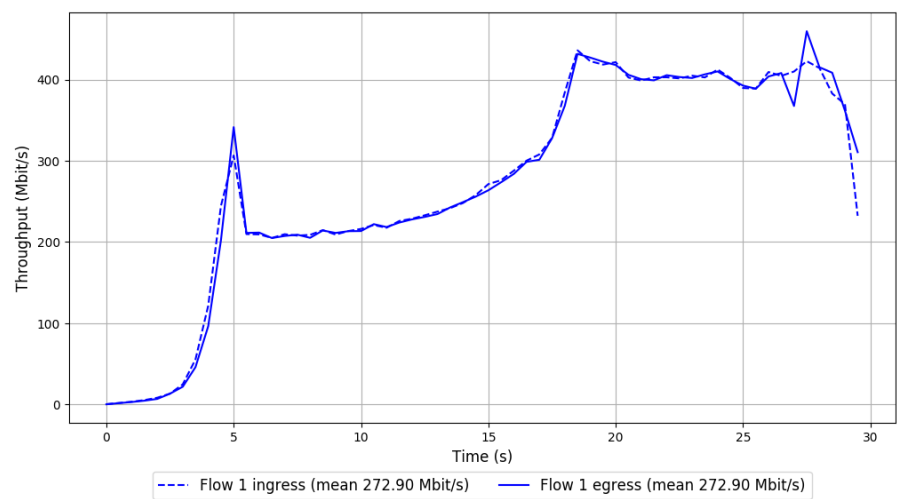
-- Flow 1:

Average throughput: 272.90 Mbit/s

95th percentile per-packet one-way delay: 116.762 ms

Loss rate: 0.00%

Run 3: Report of Vivace-latency — Data Link



Run 4: Statistics of Vivace-latency

Start at: 2018-03-20 09:14:10

End at: 2018-03-20 09:14:40

Below is generated by plot.py at 2018-03-20 13:13:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 309.75 Mbit/s

95th percentile per-packet one-way delay: 113.717 ms

Loss rate: 0.00%

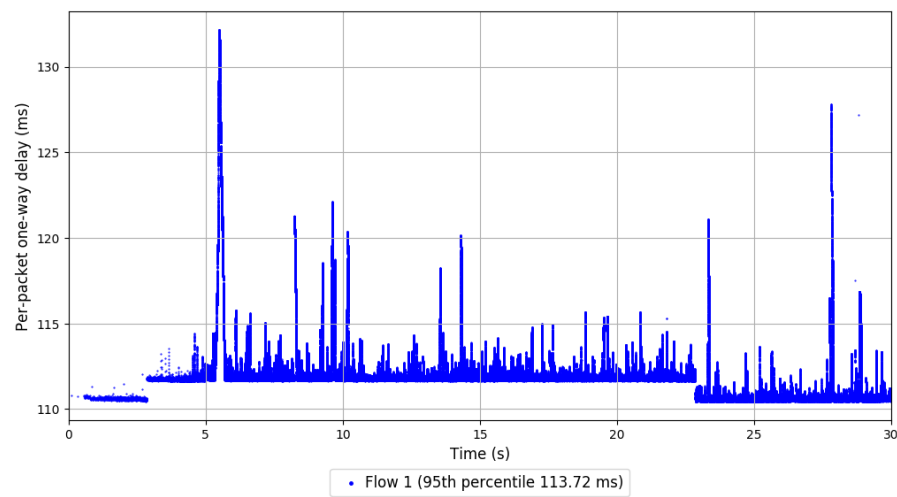
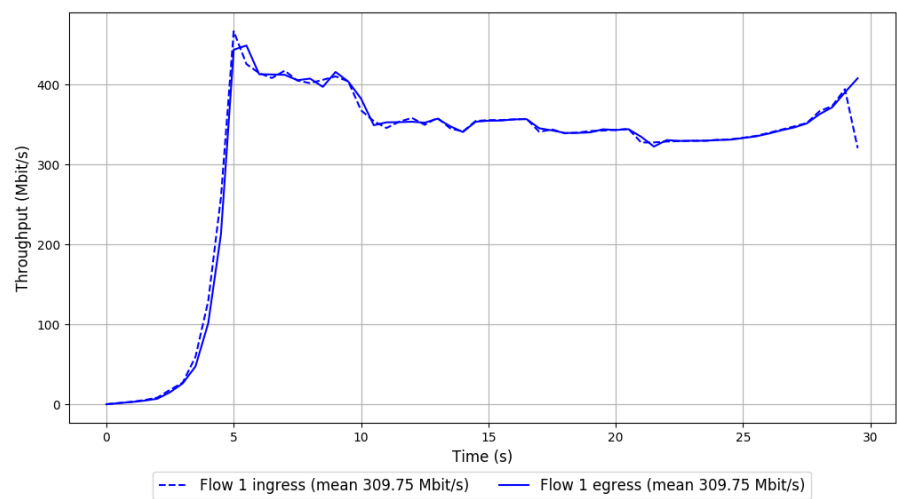
-- Flow 1:

Average throughput: 309.75 Mbit/s

95th percentile per-packet one-way delay: 113.717 ms

Loss rate: 0.00%

Run 4: Report of Vivace-latency — Data Link



Run 5: Statistics of Vivace-latency

Start at: 2018-03-20 09:29:33

End at: 2018-03-20 09:30:03

Below is generated by plot.py at 2018-03-20 13:13:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 270.69 Mbit/s

95th percentile per-packet one-way delay: 116.121 ms

Loss rate: 0.00%

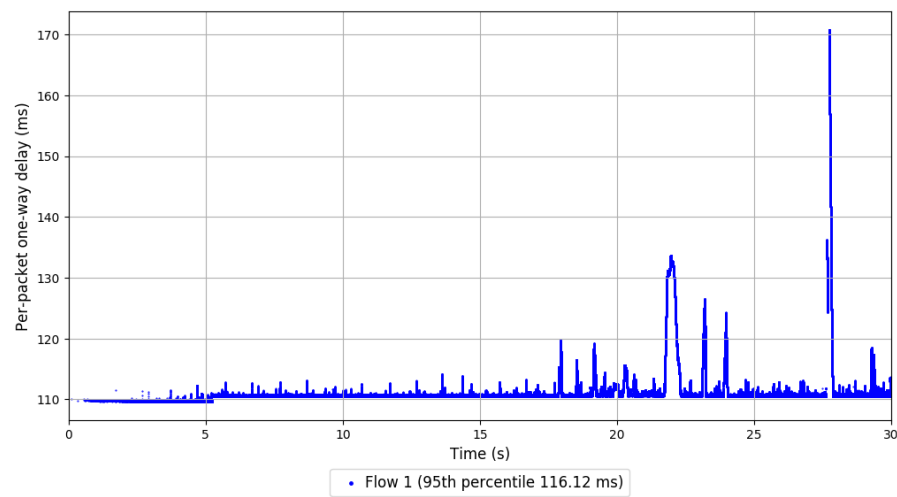
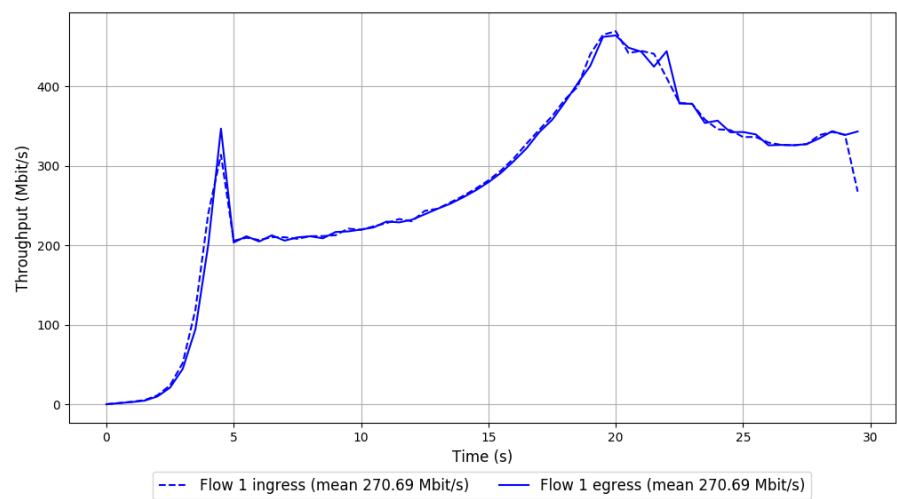
-- Flow 1:

Average throughput: 270.69 Mbit/s

95th percentile per-packet one-way delay: 116.121 ms

Loss rate: 0.00%

Run 5: Report of Vivace-latency — Data Link



Run 6: Statistics of Vivace-latency

Start at: 2018-03-20 09:45:11

End at: 2018-03-20 09:45:41

Below is generated by plot.py at 2018-03-20 13:13:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 339.31 Mbit/s

95th percentile per-packet one-way delay: 180.142 ms

Loss rate: 0.45%

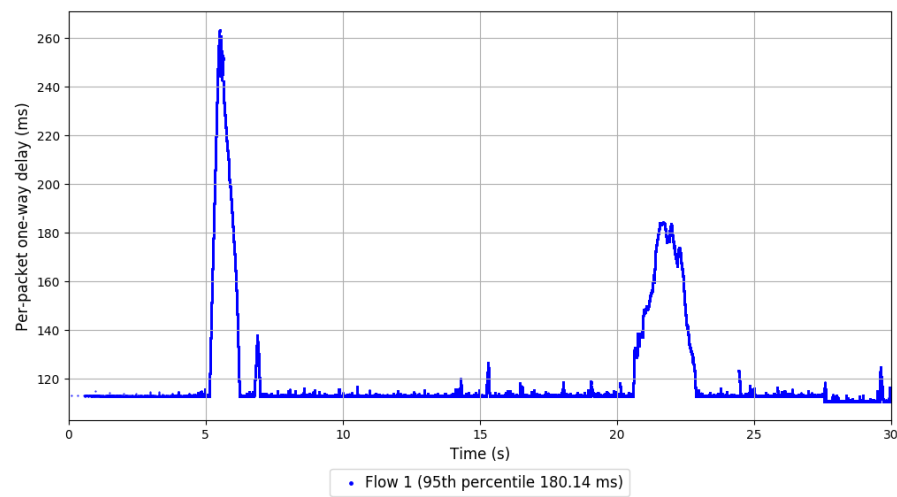
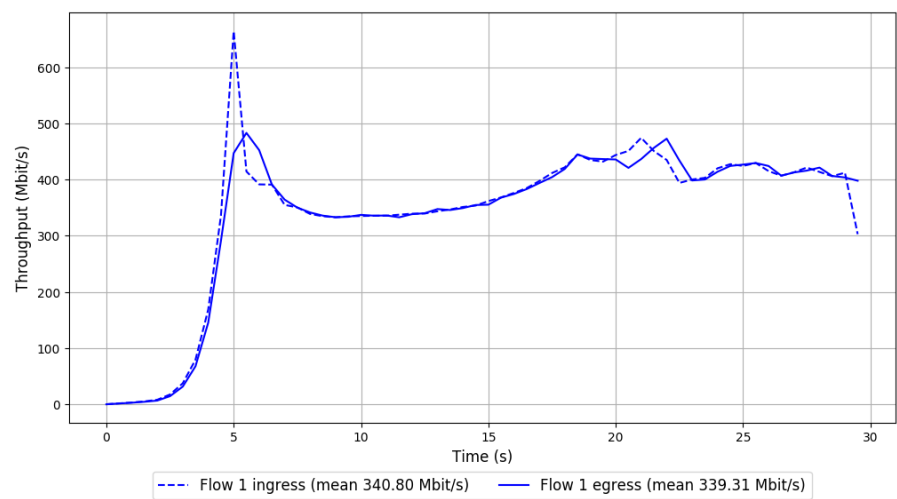
-- Flow 1:

Average throughput: 339.31 Mbit/s

95th percentile per-packet one-way delay: 180.142 ms

Loss rate: 0.45%

Run 6: Report of Vivace-latency — Data Link



Run 7: Statistics of Vivace-latency

Start at: 2018-03-20 10:00:40

End at: 2018-03-20 10:01:10

Below is generated by plot.py at 2018-03-20 13:13:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 263.58 Mbit/s

95th percentile per-packet one-way delay: 147.005 ms

Loss rate: 0.16%

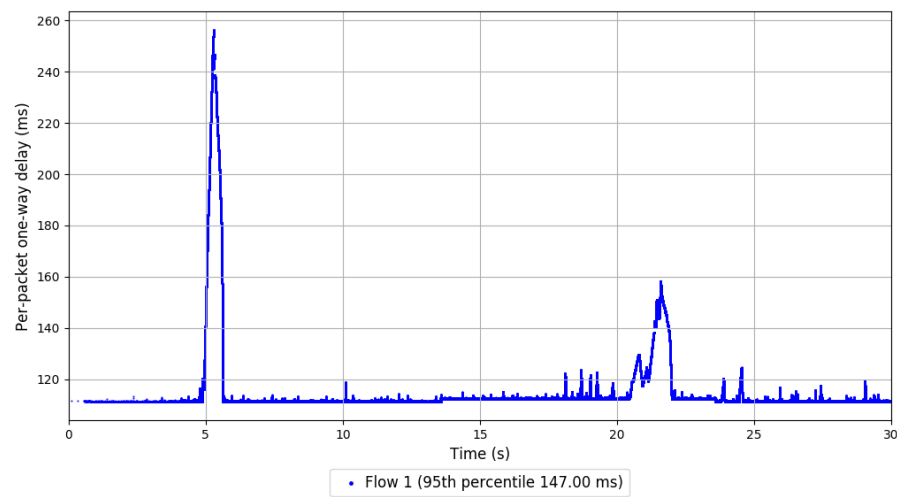
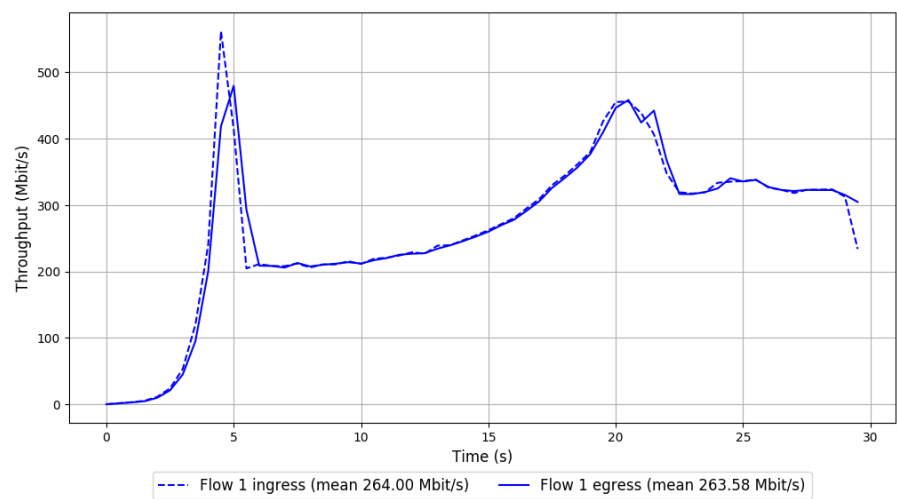
-- Flow 1:

Average throughput: 263.58 Mbit/s

95th percentile per-packet one-way delay: 147.005 ms

Loss rate: 0.16%

Run 7: Report of Vivace-latency — Data Link



Run 8: Statistics of Vivace-latency

Start at: 2018-03-20 10:15:58

End at: 2018-03-20 10:16:28

Below is generated by plot.py at 2018-03-20 13:14:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 330.59 Mbit/s

95th percentile per-packet one-way delay: 123.266 ms

Loss rate: 0.06%

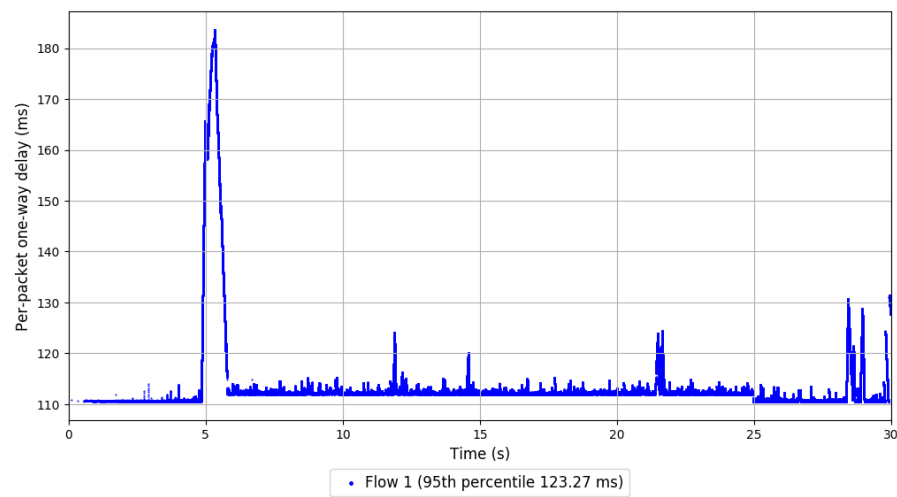
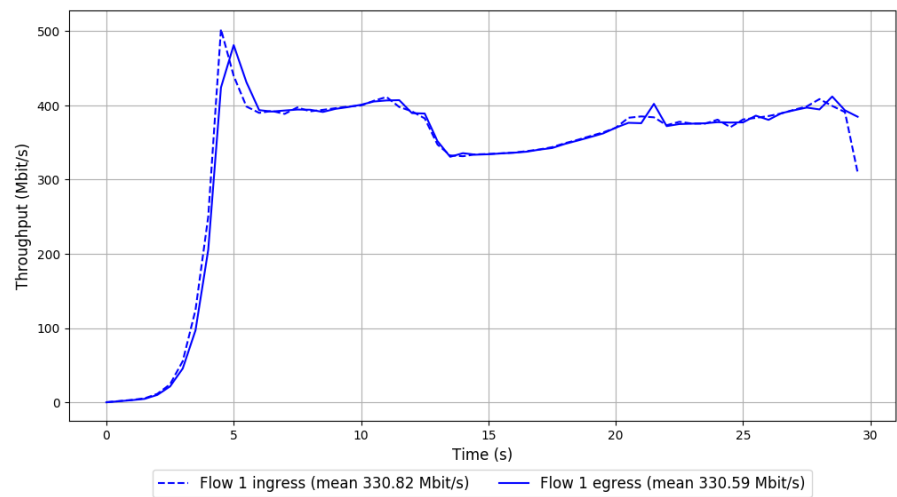
-- Flow 1:

Average throughput: 330.59 Mbit/s

95th percentile per-packet one-way delay: 123.266 ms

Loss rate: 0.06%

Run 8: Report of Vivace-latency — Data Link



Run 9: Statistics of Vivace-latency

Start at: 2018-03-20 10:31:24

End at: 2018-03-20 10:31:54

Below is generated by plot.py at 2018-03-20 13:15:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 324.80 Mbit/s

95th percentile per-packet one-way delay: 150.635 ms

Loss rate: 0.44%

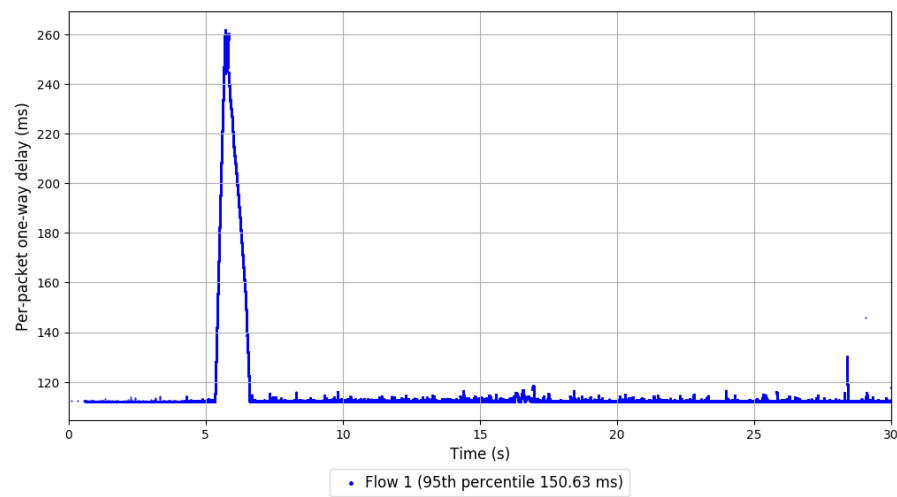
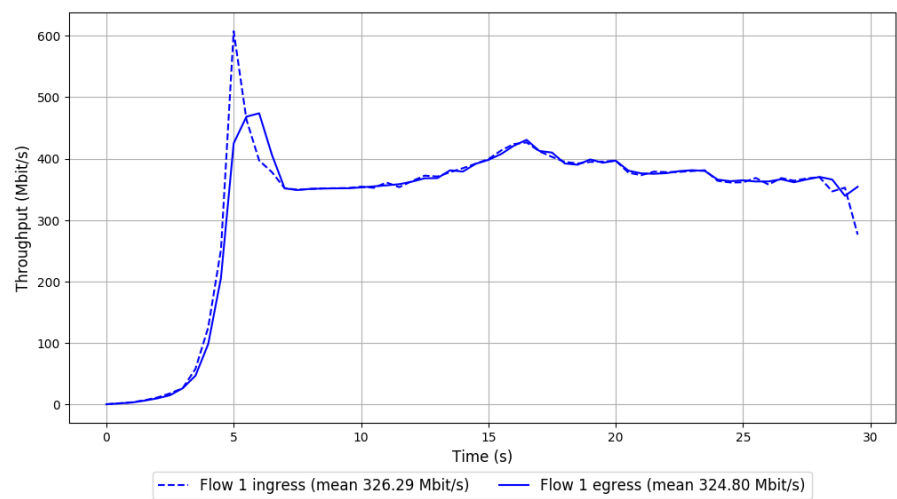
-- Flow 1:

Average throughput: 324.80 Mbit/s

95th percentile per-packet one-way delay: 150.635 ms

Loss rate: 0.44%

Run 9: Report of Vivace-latency — Data Link



Run 10: Statistics of Vivace-latency

Start at: 2018-03-20 10:46:49

End at: 2018-03-20 10:47:19

Below is generated by plot.py at 2018-03-20 13:15:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 267.58 Mbit/s

95th percentile per-packet one-way delay: 148.552 ms

Loss rate: 0.70%

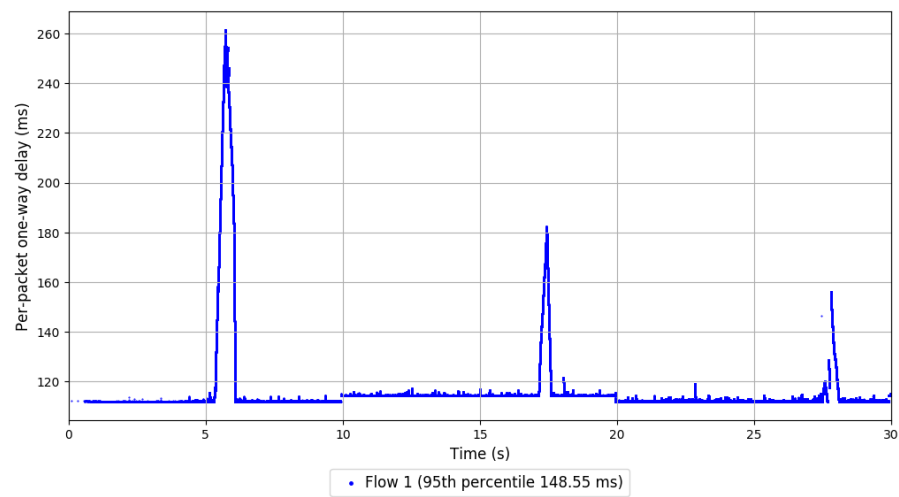
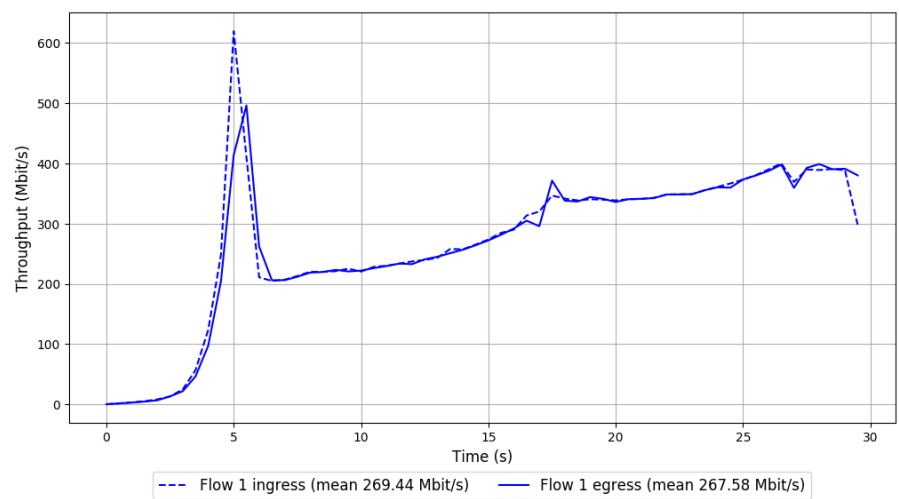
-- Flow 1:

Average throughput: 267.58 Mbit/s

95th percentile per-packet one-way delay: 148.552 ms

Loss rate: 0.70%

Run 10: Report of Vivace-latency — Data Link

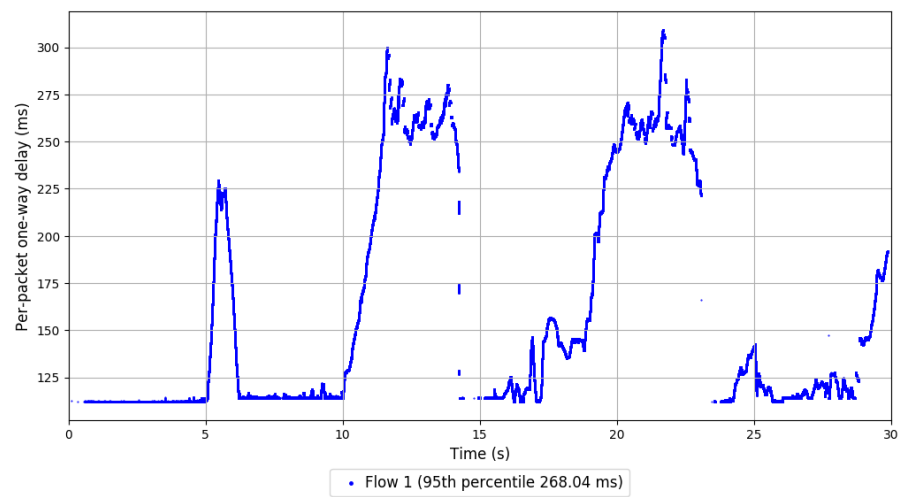
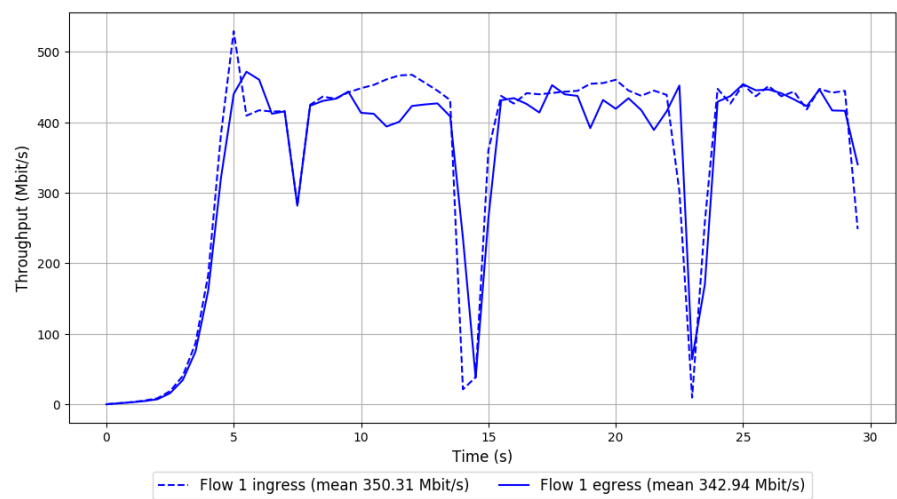


```
Run 1: Statistics of Vivace-loss

Start at: 2018-03-20 08:26:22
End at: 2018-03-20 08:26:52

# Below is generated by plot.py at 2018-03-20 13:16:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 342.94 Mbit/s
95th percentile per-packet one-way delay: 268.036 ms
Loss rate: 2.10%
-- Flow 1:
Average throughput: 342.94 Mbit/s
95th percentile per-packet one-way delay: 268.036 ms
Loss rate: 2.10%
```

Run 1: Report of Vivace-loss — Data Link



Run 2: Statistics of Vivace-loss

Start at: 2018-03-20 08:41:58

End at: 2018-03-20 08:42:28

Below is generated by plot.py at 2018-03-20 13:16:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 194.86 Mbit/s

95th percentile per-packet one-way delay: 234.268 ms

Loss rate: 2.20%

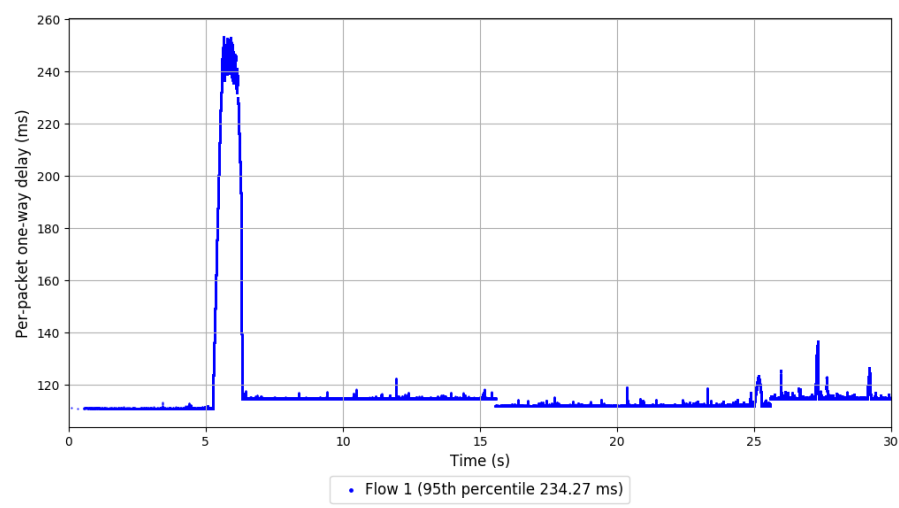
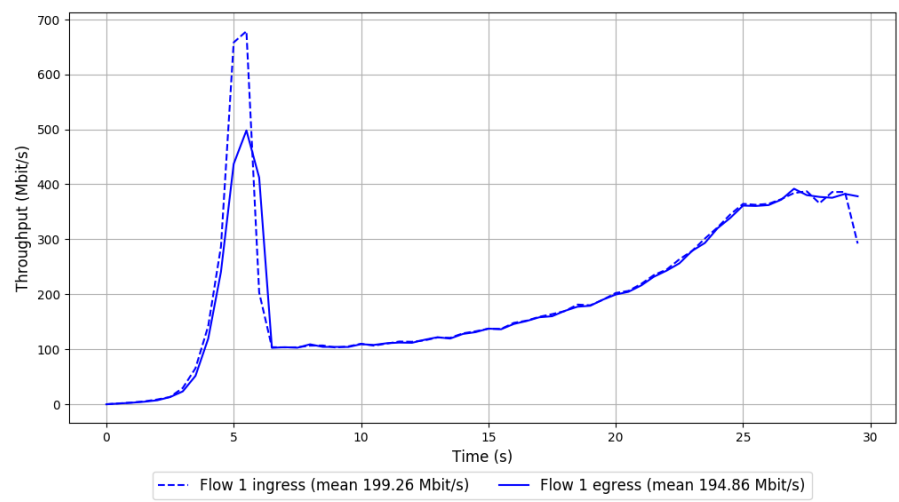
-- Flow 1:

Average throughput: 194.86 Mbit/s

95th percentile per-packet one-way delay: 234.268 ms

Loss rate: 2.20%

Run 2: Report of Vivace-loss — Data Link



Run 3: Statistics of Vivace-loss

Start at: 2018-03-20 08:57:10

End at: 2018-03-20 08:57:40

Below is generated by plot.py at 2018-03-20 13:17:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 267.69 Mbit/s

95th percentile per-packet one-way delay: 256.570 ms

Loss rate: 3.16%

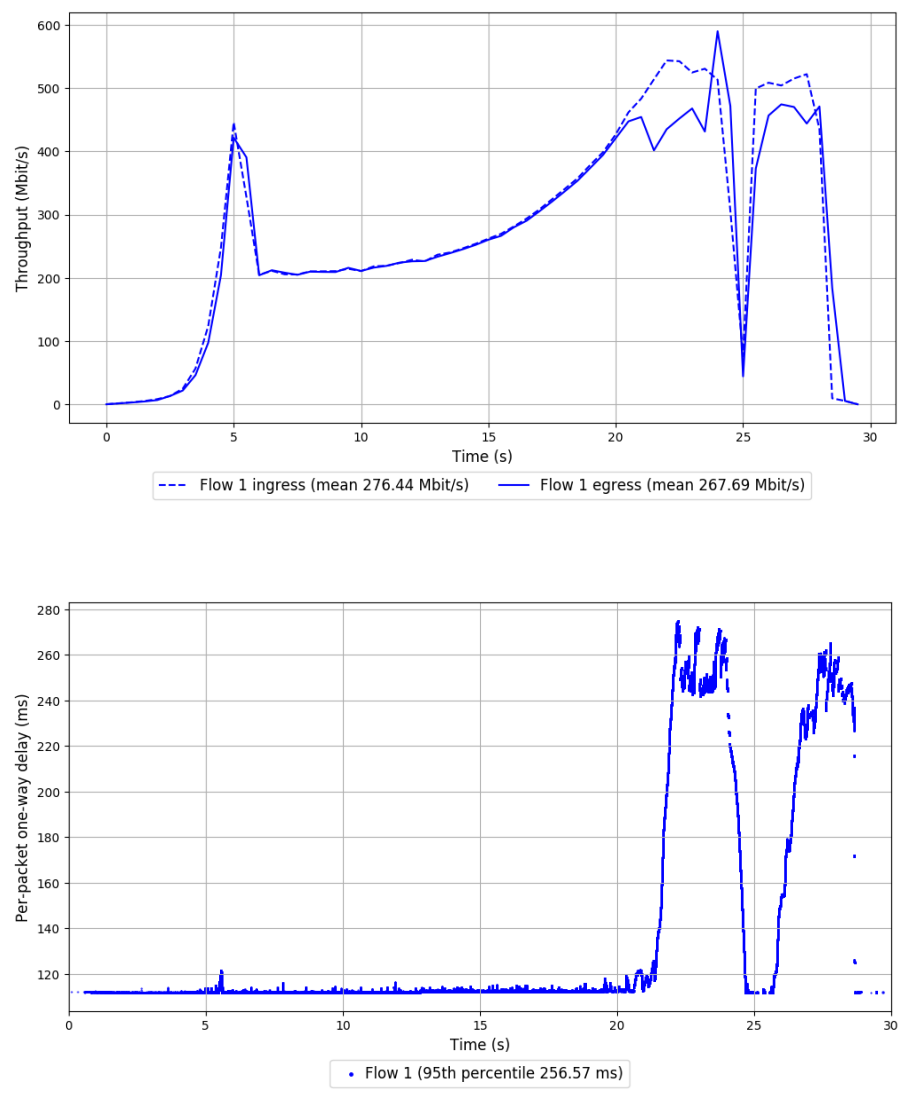
-- Flow 1:

Average throughput: 267.69 Mbit/s

95th percentile per-packet one-way delay: 256.570 ms

Loss rate: 3.16%

Run 3: Report of Vivace-loss — Data Link



Run 4: Statistics of Vivace-loss

Start at: 2018-03-20 09:12:17

End at: 2018-03-20 09:12:47

Below is generated by plot.py at 2018-03-20 13:19:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 350.86 Mbit/s

95th percentile per-packet one-way delay: 257.055 ms

Loss rate: 1.62%

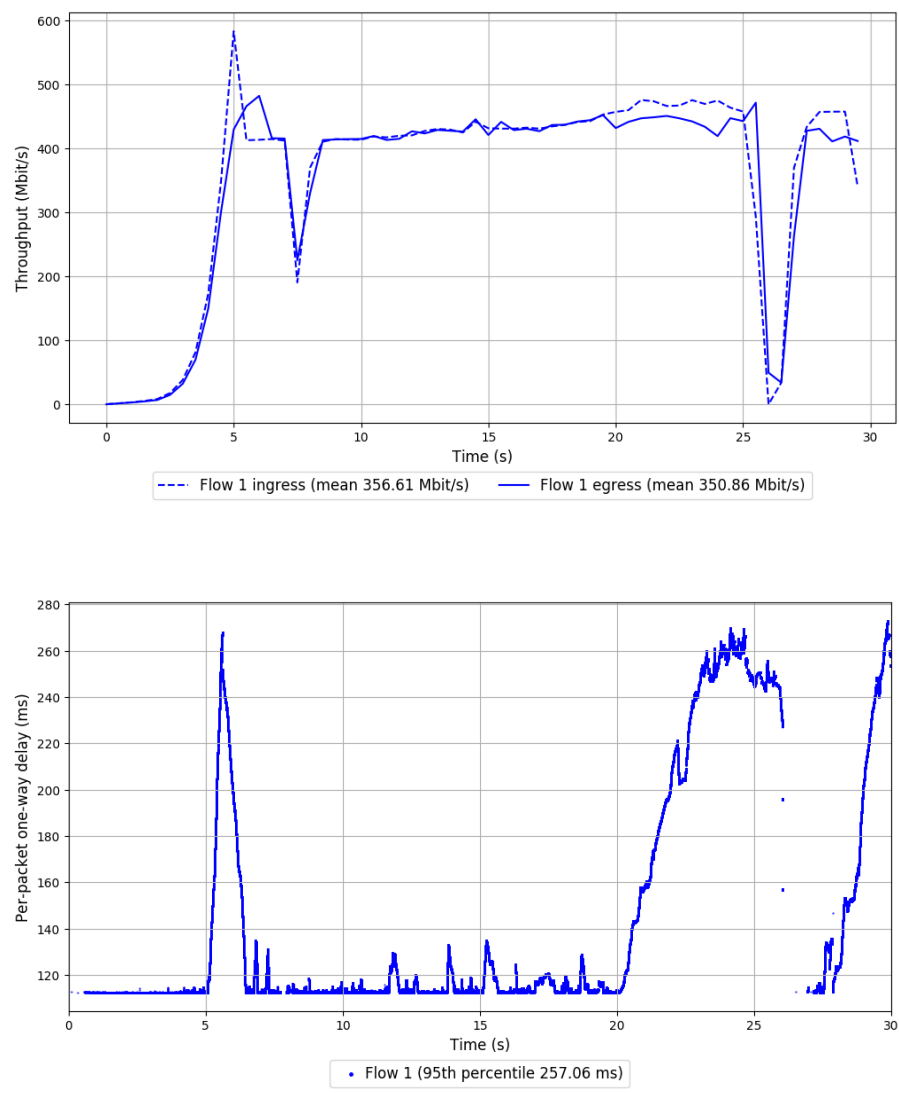
-- Flow 1:

Average throughput: 350.86 Mbit/s

95th percentile per-packet one-way delay: 257.055 ms

Loss rate: 1.62%

Run 4: Report of Vivace-loss — Data Link



Run 5: Statistics of Vivace-loss

Start at: 2018-03-20 09:27:39

End at: 2018-03-20 09:28:09

Below is generated by plot.py at 2018-03-20 13:20:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 371.17 Mbit/s

95th percentile per-packet one-way delay: 247.718 ms

Loss rate: 2.13%

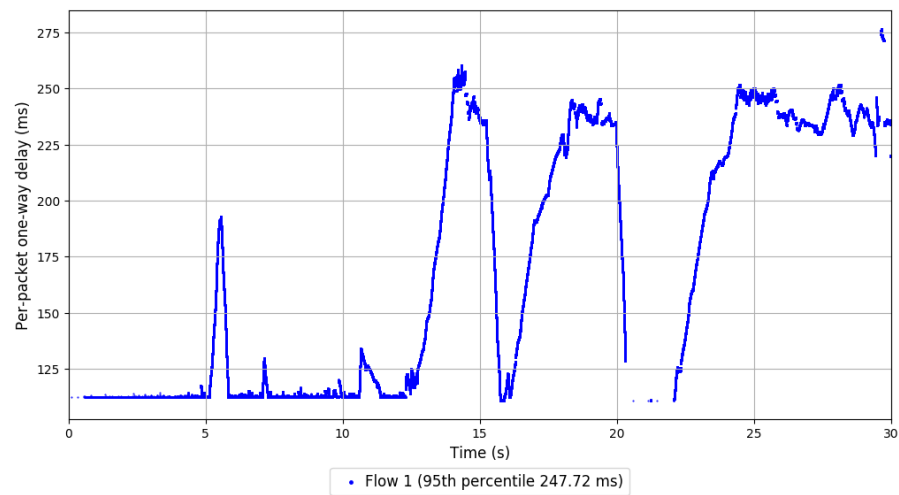
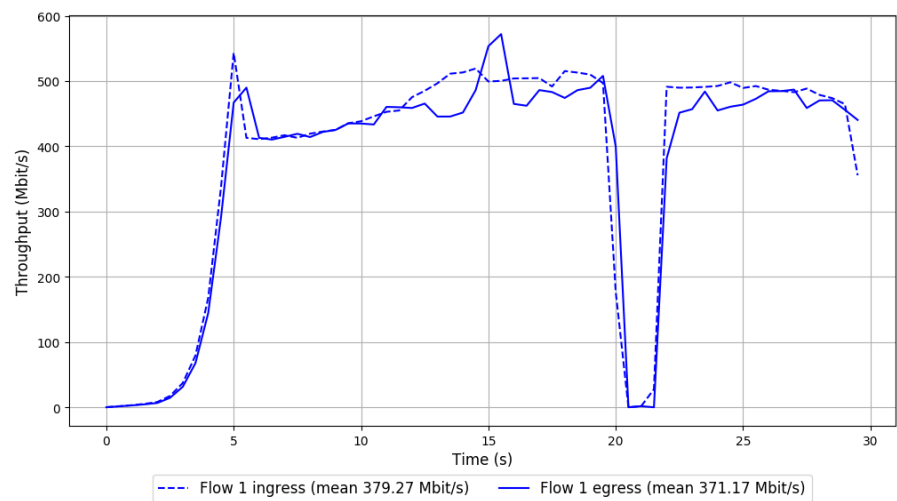
-- Flow 1:

Average throughput: 371.17 Mbit/s

95th percentile per-packet one-way delay: 247.718 ms

Loss rate: 2.13%

Run 5: Report of Vivace-loss — Data Link



Run 6: Statistics of Vivace-loss

Start at: 2018-03-20 09:43:19

End at: 2018-03-20 09:43:49

Below is generated by plot.py at 2018-03-20 13:20:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 359.07 Mbit/s

95th percentile per-packet one-way delay: 254.901 ms

Loss rate: 2.48%

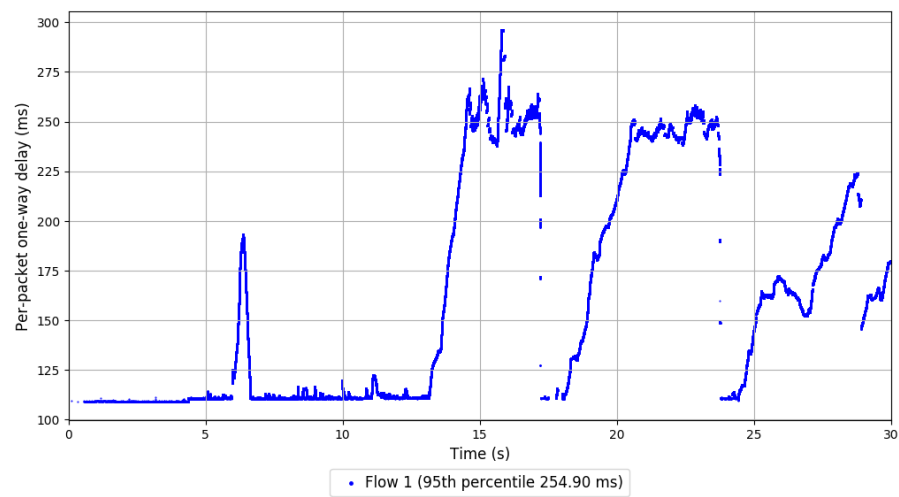
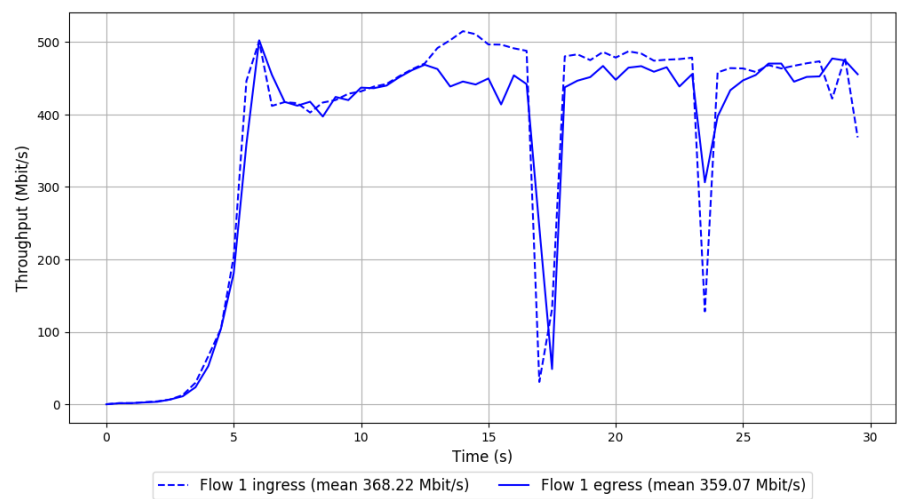
-- Flow 1:

Average throughput: 359.07 Mbit/s

95th percentile per-packet one-way delay: 254.901 ms

Loss rate: 2.48%

Run 6: Report of Vivace-loss — Data Link



Run 7: Statistics of Vivace-loss

Start at: 2018-03-20 09:58:52

End at: 2018-03-20 09:59:22

Below is generated by plot.py at 2018-03-20 13:20:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 279.03 Mbit/s

95th percentile per-packet one-way delay: 257.762 ms

Loss rate: 4.15%

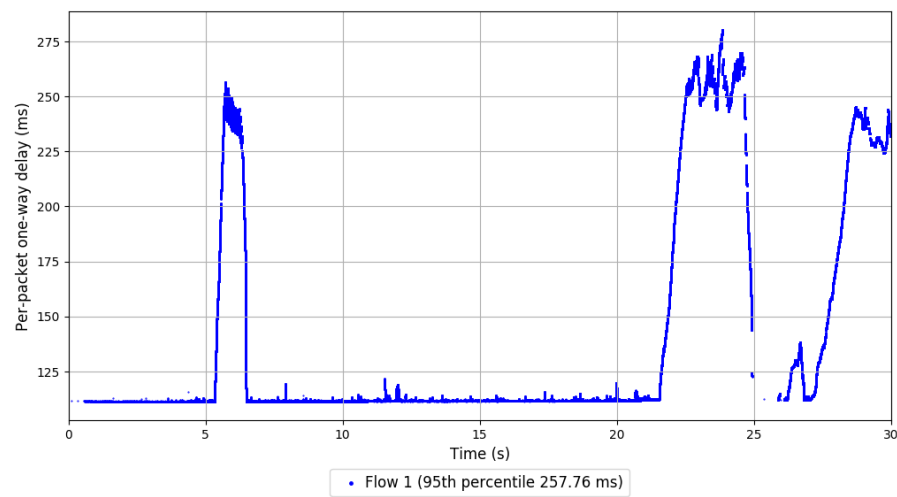
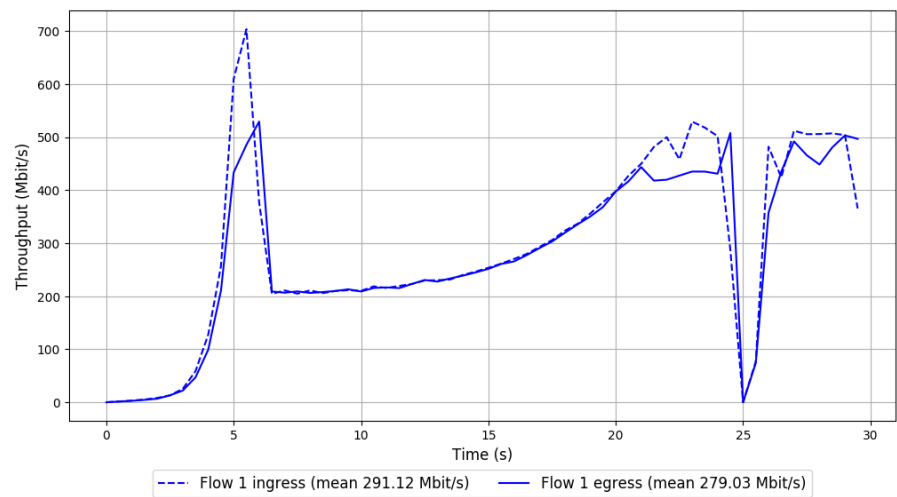
-- Flow 1:

Average throughput: 279.03 Mbit/s

95th percentile per-packet one-way delay: 257.762 ms

Loss rate: 4.15%

Run 7: Report of Vivace-loss — Data Link



Run 8: Statistics of Vivace-loss

Start at: 2018-03-20 10:14:18

End at: 2018-03-20 10:14:48

Below is generated by plot.py at 2018-03-20 13:20:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 179.61 Mbit/s

95th percentile per-packet one-way delay: 234.866 ms

Loss rate: 1.88%

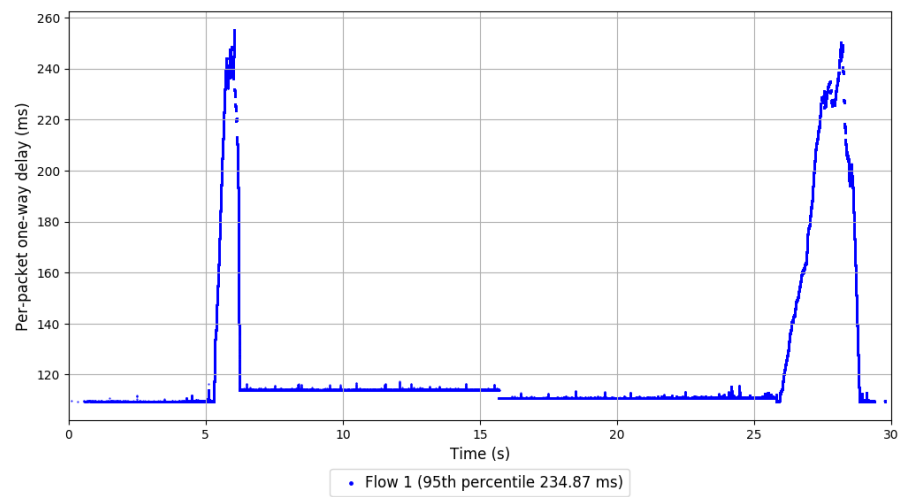
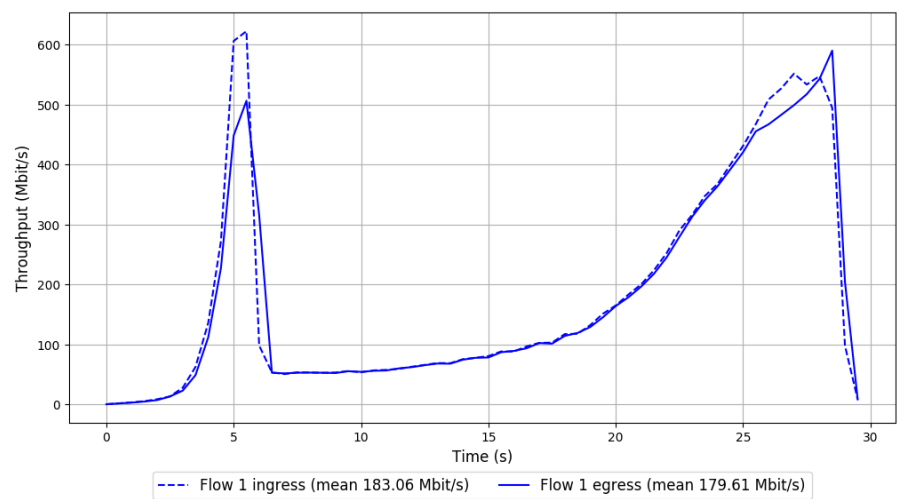
-- Flow 1:

Average throughput: 179.61 Mbit/s

95th percentile per-packet one-way delay: 234.866 ms

Loss rate: 1.88%

Run 8: Report of Vivace-loss — Data Link



Run 9: Statistics of Vivace-loss

Start at: 2018-03-20 10:29:32

End at: 2018-03-20 10:30:02

Below is generated by plot.py at 2018-03-20 13:21:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 334.11 Mbit/s

95th percentile per-packet one-way delay: 251.729 ms

Loss rate: 1.45%

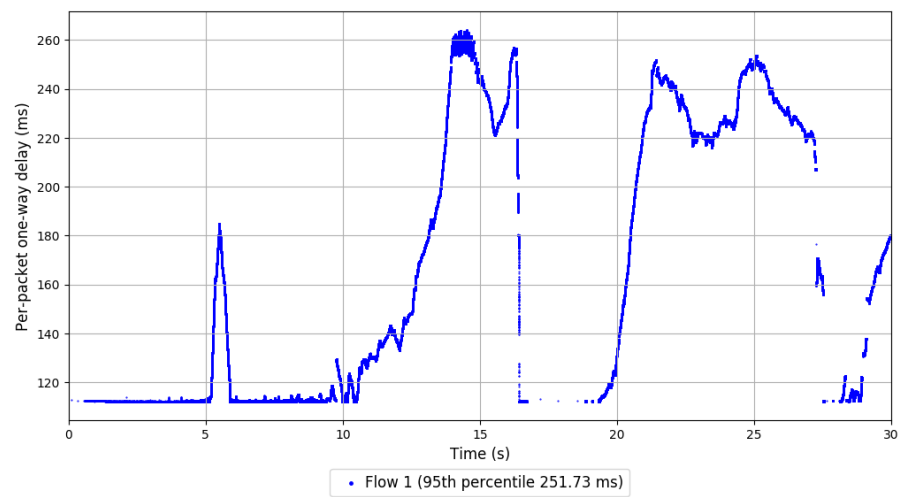
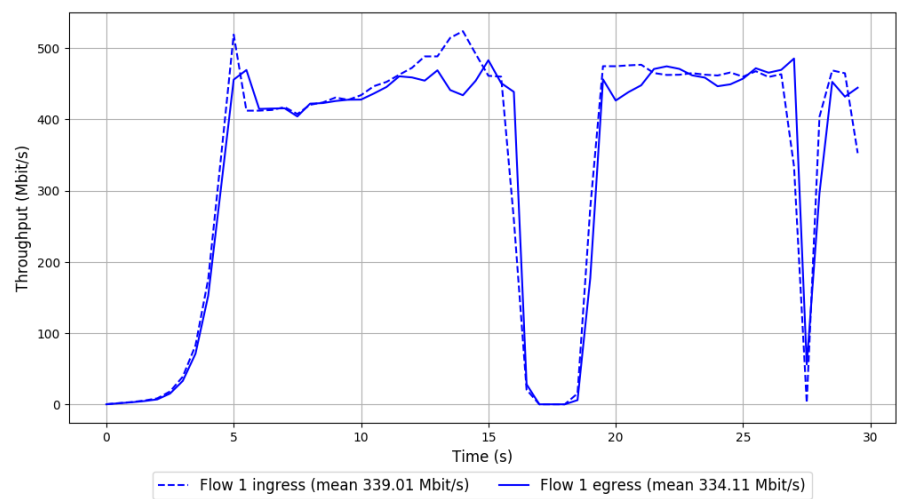
-- Flow 1:

Average throughput: 334.11 Mbit/s

95th percentile per-packet one-way delay: 251.729 ms

Loss rate: 1.45%

Run 9: Report of Vivace-loss — Data Link



Run 10: Statistics of Vivace-loss

Start at: 2018-03-20 10:44:58

End at: 2018-03-20 10:45:28

Below is generated by plot.py at 2018-03-20 13:23:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 377.55 Mbit/s

95th percentile per-packet one-way delay: 140.609 ms

Loss rate: 0.15%

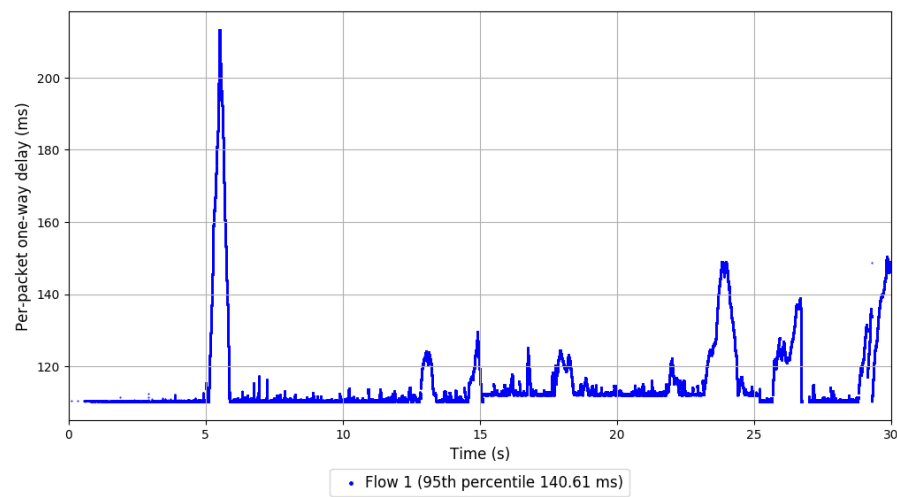
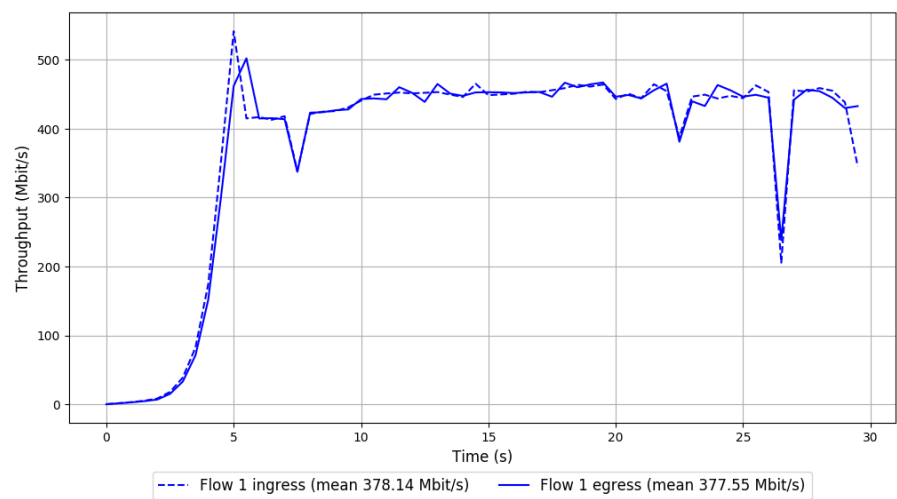
-- Flow 1:

Average throughput: 377.55 Mbit/s

95th percentile per-packet one-way delay: 140.609 ms

Loss rate: 0.15%

Run 10: Report of Vivace-loss — Data Link

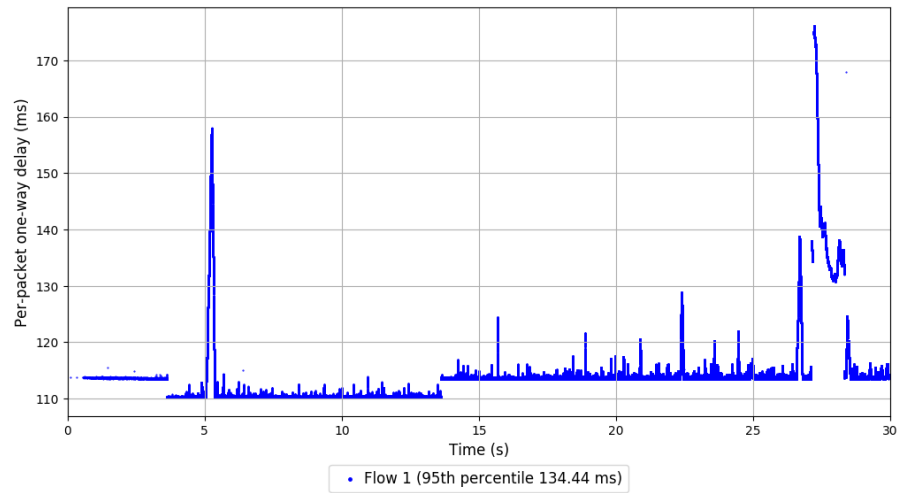
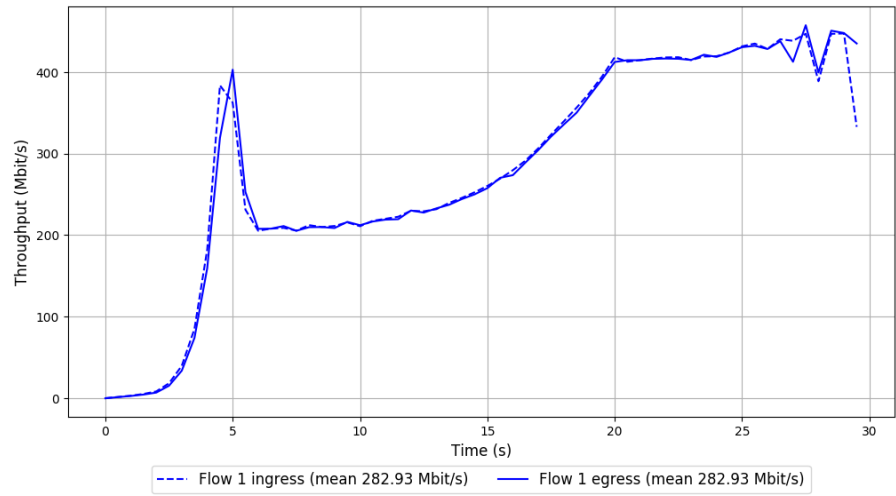


```
Run 1: Statistics of Vivace-LTE

Start at: 2018-03-20 08:30:00
End at: 2018-03-20 08:30:30

# Below is generated by plot.py at 2018-03-20 13:23:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 282.93 Mbit/s
95th percentile per-packet one-way delay: 134.441 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 282.93 Mbit/s
95th percentile per-packet one-way delay: 134.441 ms
Loss rate: 0.00%
```

Run 1: Report of Vivace-LTE — Data Link



Run 2: Statistics of Vivace-LTE

Start at: 2018-03-20 08:45:24

End at: 2018-03-20 08:45:55

Below is generated by plot.py at 2018-03-20 13:24:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 321.34 Mbit/s

95th percentile per-packet one-way delay: 112.970 ms

Loss rate: 0.00%

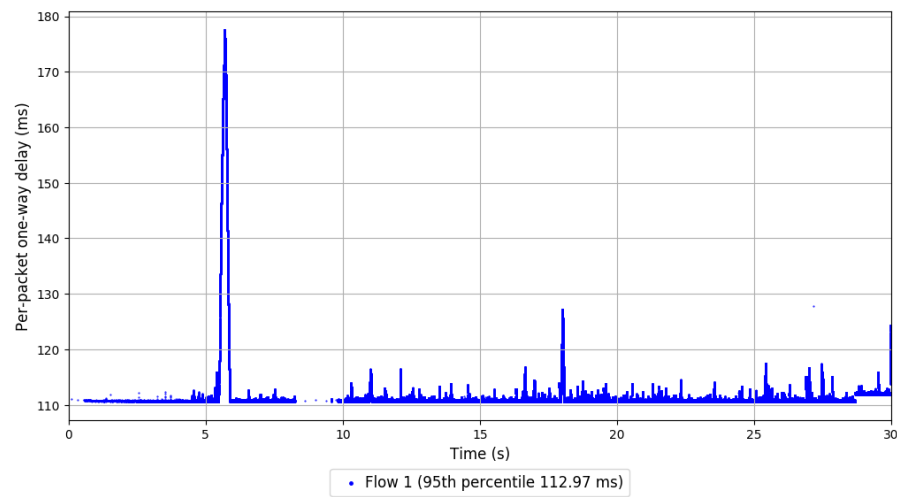
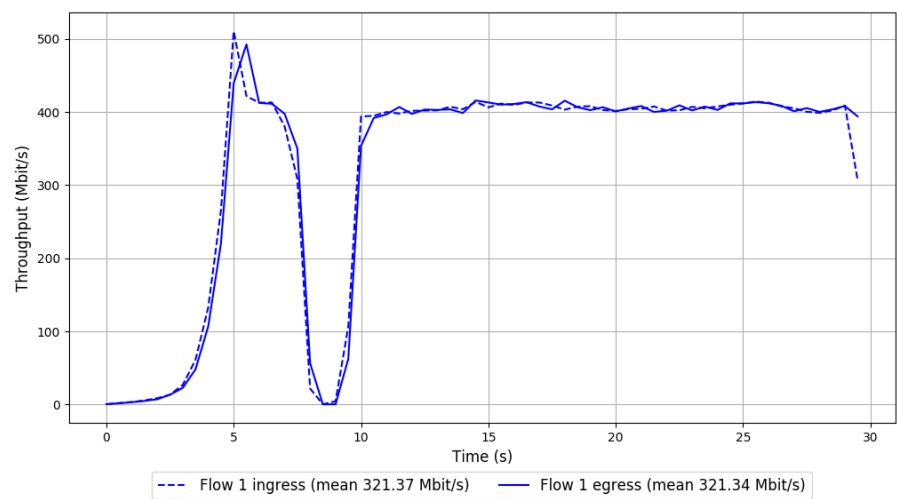
-- Flow 1:

Average throughput: 321.34 Mbit/s

95th percentile per-packet one-way delay: 112.970 ms

Loss rate: 0.00%

Run 2: Report of Vivace-LTE — Data Link



Run 3: Statistics of Vivace-LTE

Start at: 2018-03-20 09:00:42

End at: 2018-03-20 09:01:12

Below is generated by plot.py at 2018-03-20 13:24:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 288.59 Mbit/s

95th percentile per-packet one-way delay: 145.532 ms

Loss rate: 0.00%

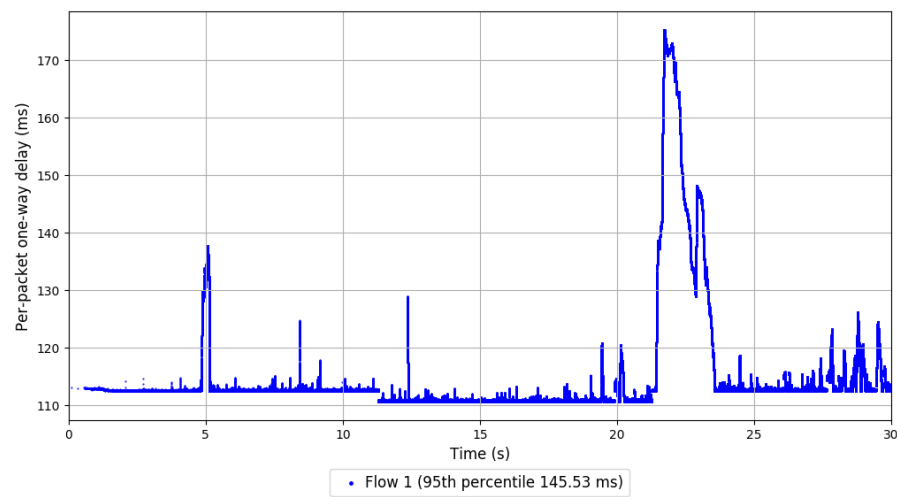
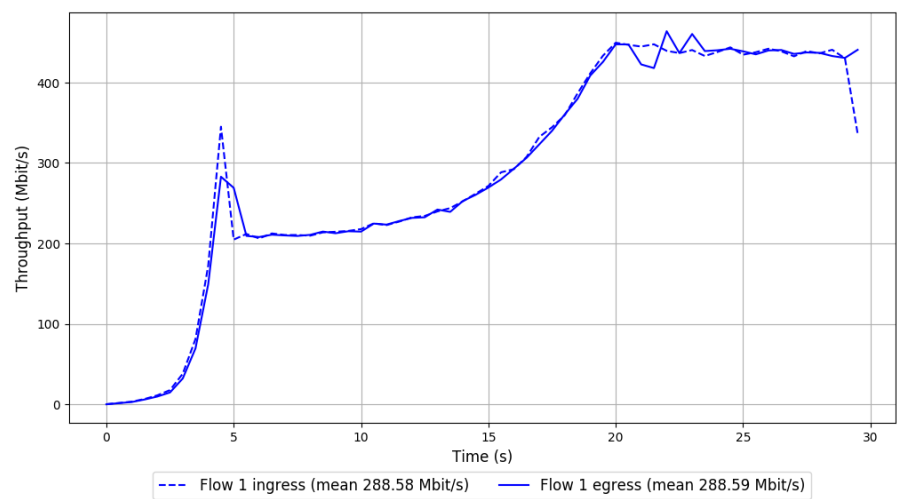
-- Flow 1:

Average throughput: 288.59 Mbit/s

95th percentile per-packet one-way delay: 145.532 ms

Loss rate: 0.00%

Run 3: Report of Vivace-LTE — Data Link



Run 4: Statistics of Vivace-LTE

Start at: 2018-03-20 09:15:58

End at: 2018-03-20 09:16:28

Below is generated by plot.py at 2018-03-20 13:25:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 290.46 Mbit/s

95th percentile per-packet one-way delay: 131.423 ms

Loss rate: 0.88%

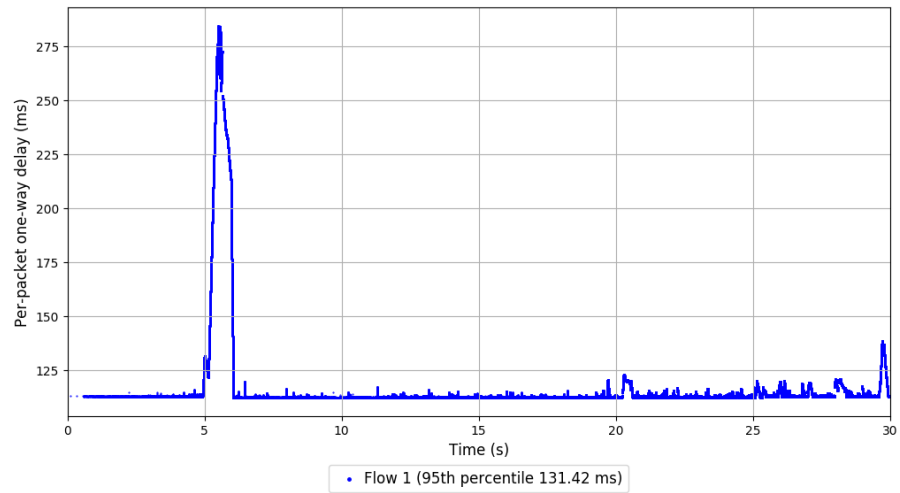
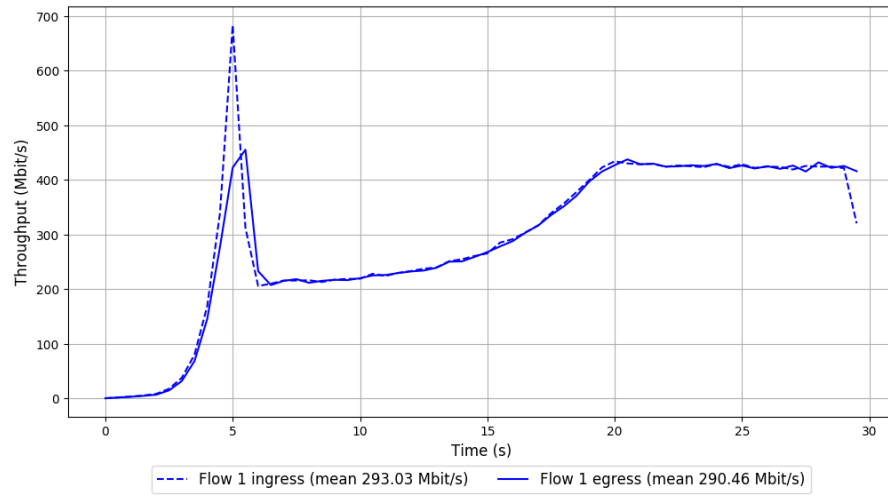
-- Flow 1:

Average throughput: 290.46 Mbit/s

95th percentile per-packet one-way delay: 131.423 ms

Loss rate: 0.88%

Run 4: Report of Vivace-LTE — Data Link



Run 5: Statistics of Vivace-LTE

Start at: 2018-03-20 09:31:19

End at: 2018-03-20 09:31:49

Below is generated by plot.py at 2018-03-20 13:26:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 368.65 Mbit/s

95th percentile per-packet one-way delay: 137.619 ms

Loss rate: 0.52%

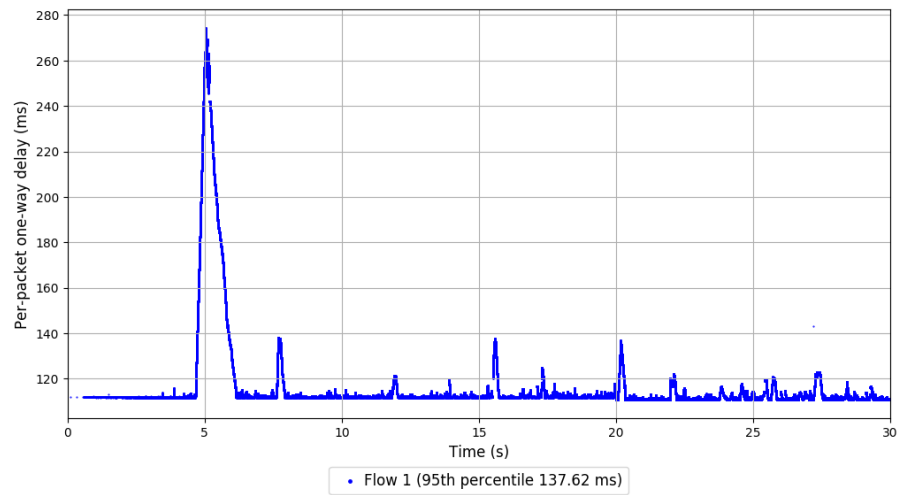
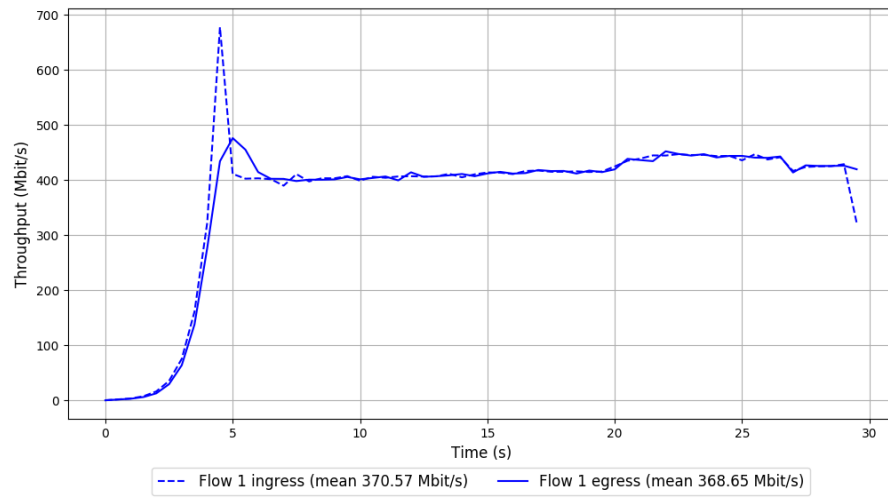
-- Flow 1:

Average throughput: 368.65 Mbit/s

95th percentile per-packet one-way delay: 137.619 ms

Loss rate: 0.52%

Run 5: Report of Vivace-LTE — Data Link



Run 6: Statistics of Vivace-LTE

Start at: 2018-03-20 09:47:01

End at: 2018-03-20 09:47:31

Below is generated by plot.py at 2018-03-20 13:27:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 373.00 Mbit/s

95th percentile per-packet one-way delay: 147.402 ms

Loss rate: 0.00%

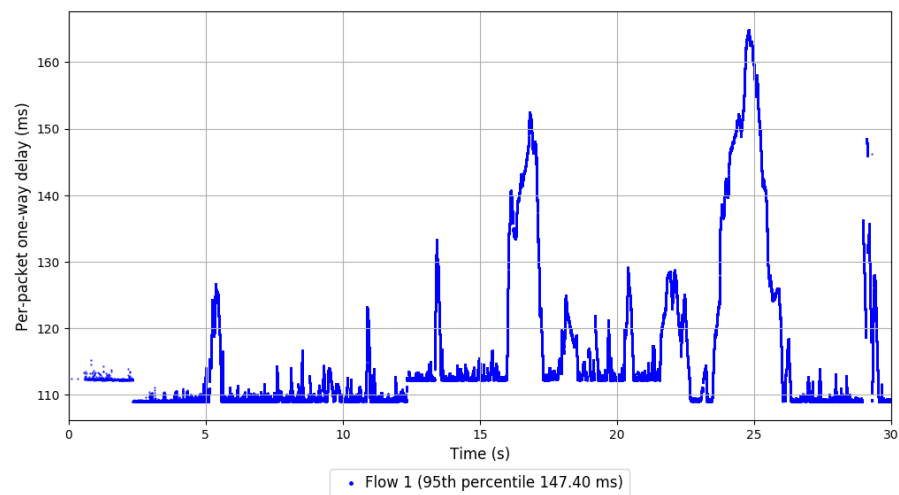
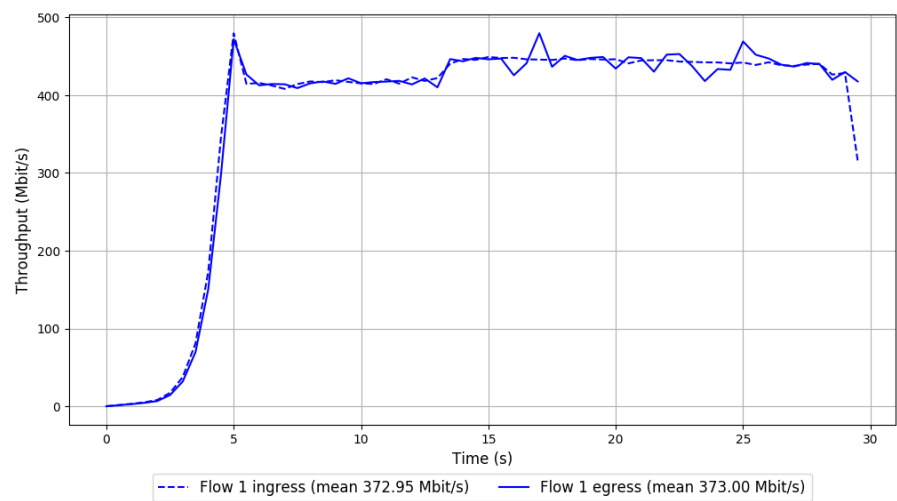
-- Flow 1:

Average throughput: 373.00 Mbit/s

95th percentile per-packet one-way delay: 147.402 ms

Loss rate: 0.00%

Run 6: Report of Vivace-LTE — Data Link



Run 7: Statistics of Vivace-LTE

Start at: 2018-03-20 10:02:24

End at: 2018-03-20 10:02:54

Below is generated by plot.py at 2018-03-20 13:27:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 382.84 Mbit/s

95th percentile per-packet one-way delay: 133.326 ms

Loss rate: 0.07%

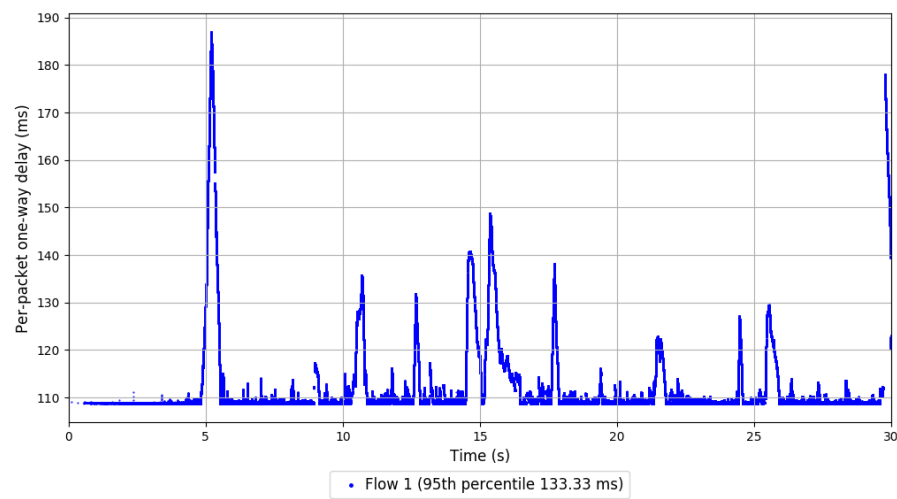
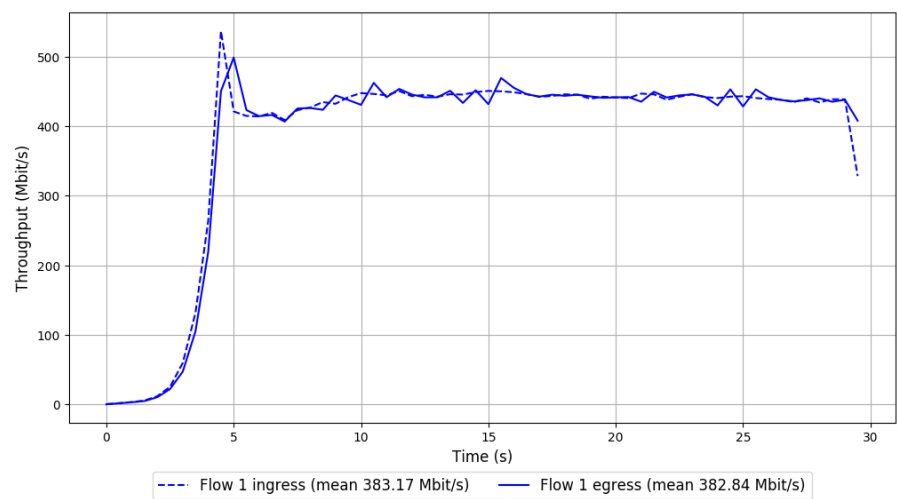
-- Flow 1:

Average throughput: 382.84 Mbit/s

95th percentile per-packet one-way delay: 133.326 ms

Loss rate: 0.07%

Run 7: Report of Vivace-LTE — Data Link



Run 8: Statistics of Vivace-LTE

Start at: 2018-03-20 10:17:47

End at: 2018-03-20 10:18:17

Below is generated by plot.py at 2018-03-20 13:27:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 292.35 Mbit/s

95th percentile per-packet one-way delay: 198.703 ms

Loss rate: 0.55%

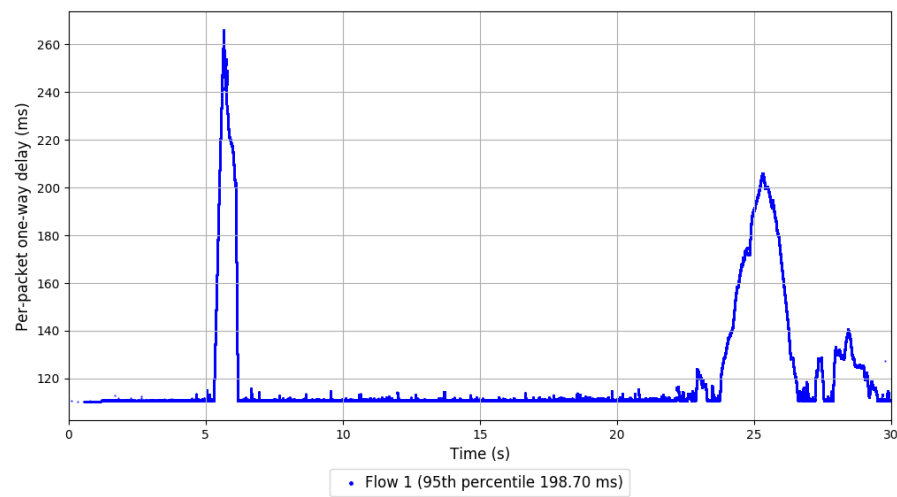
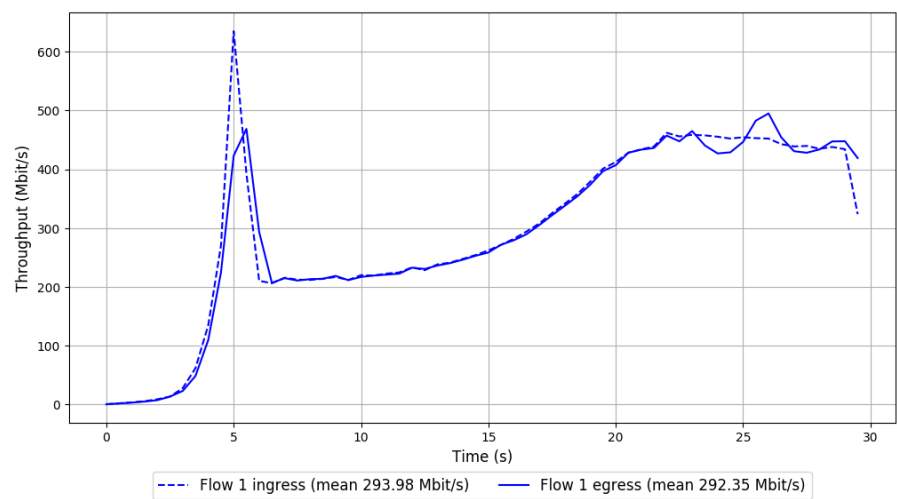
-- Flow 1:

Average throughput: 292.35 Mbit/s

95th percentile per-packet one-way delay: 198.703 ms

Loss rate: 0.55%

Run 8: Report of Vivace-LTE — Data Link



Run 9: Statistics of Vivace-LTE

Start at: 2018-03-20 10:33:12

End at: 2018-03-20 10:33:42

Below is generated by plot.py at 2018-03-20 13:27:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 284.60 Mbit/s

95th percentile per-packet one-way delay: 115.170 ms

Loss rate: 0.72%

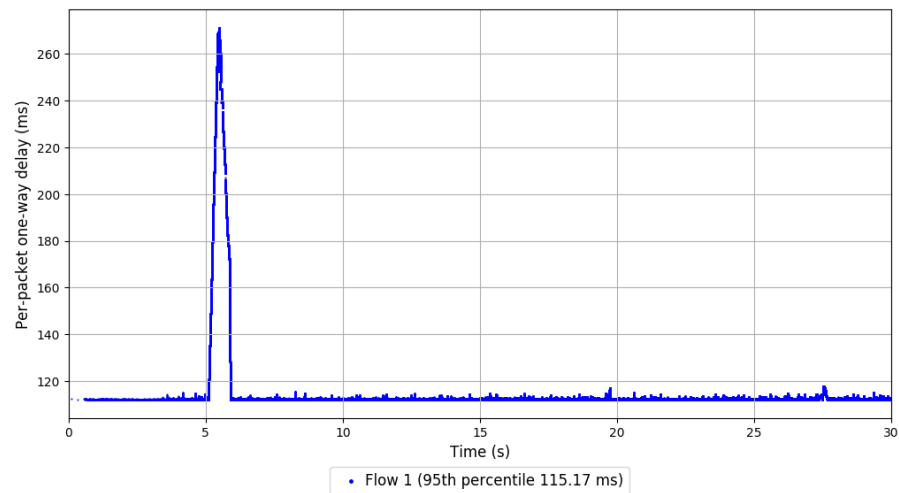
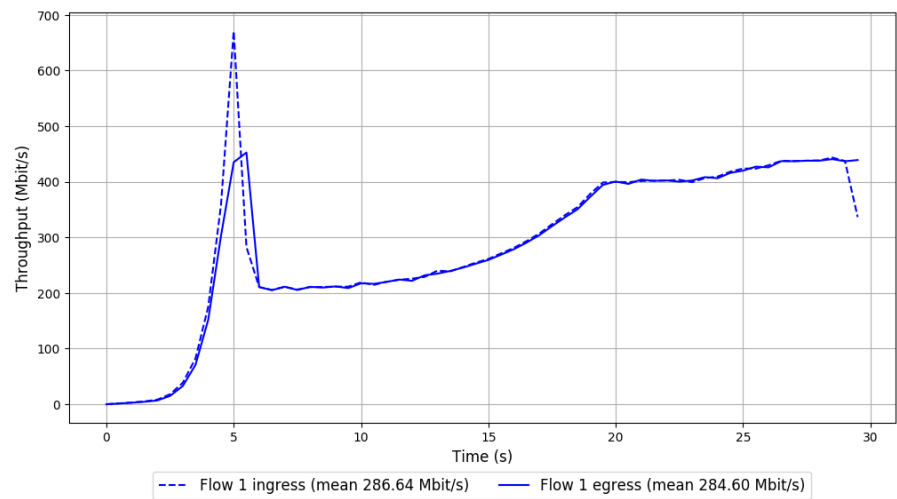
-- Flow 1:

Average throughput: 284.60 Mbit/s

95th percentile per-packet one-way delay: 115.170 ms

Loss rate: 0.72%

Run 9: Report of Vivace-LTE — Data Link



Run 10: Statistics of Vivace-LTE

Start at: 2018-03-20 10:48:33

End at: 2018-03-20 10:49:03

Below is generated by plot.py at 2018-03-20 13:27:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 345.11 Mbit/s

95th percentile per-packet one-way delay: 121.746 ms

Loss rate: 0.41%

-- Flow 1:

Average throughput: 345.11 Mbit/s

95th percentile per-packet one-way delay: 121.746 ms

Loss rate: 0.41%

Run 10: Report of Vivace-LTE — Data Link

