

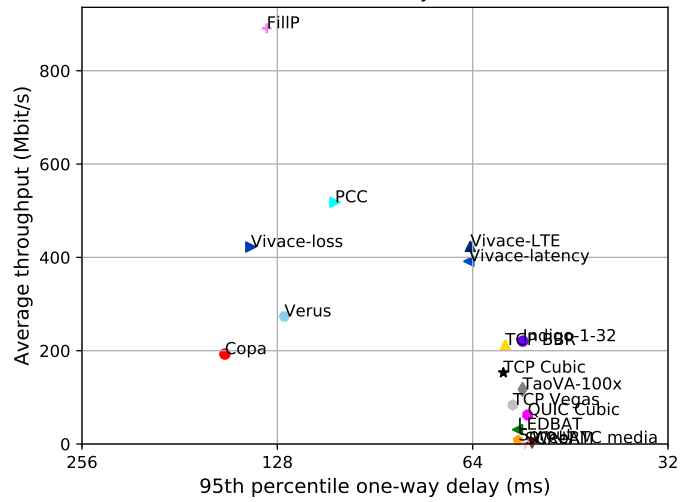
Pantheon Report

Generated at 2018-02-27 22:43:58 (UTC).
Data path: GCE Sydney 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**).

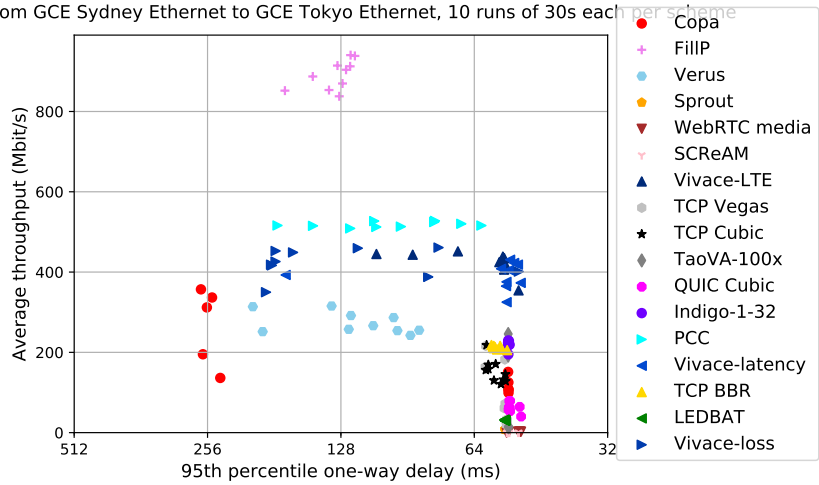
Git summary:

```
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 Sydney Ethernet to GCE Tokyo Ethernet, 10 runs of 30s each per scheme
(mean of all runs by scheme)



test from GCE Sydney 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	212.14	57.00	0.00
TCP Cubic	10	152.89	57.39	0.01
LEDBAT	10	30.80	54.58	0.00
PCC	10	518.08	104.31	0.37
QUIC Cubic	9	62.16	52.66	0.00
SCReAM	10	0.21	53.15	0.00
WebRTC media	10	2.09	51.82	0.00
Sprout	10	7.72	54.45	0.00
TaoVA-100x	6	117.08	53.62	0.00
TCP Vegas	10	83.66	55.51	0.00
Verus	10	273.45	124.86	0.43
Copa	10	192.75	154.17	15.83
FillP	10	890.99	132.93	6.59
Indigo-1-32	10	220.45	53.58	0.00
Vivace-latency	10	391.65	64.88	0.13
Vivace-loss	10	422.22	140.60	2.00
Vivace-LTE	10	423.67	64.54	0.02

Run 1: Statistics of TCP BBR

Start at: 2018-02-27 17:04:38

End at: 2018-02-27 17:05:08

Below is generated by plot.py at 2018-02-27 21:11:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 212.47 Mbit/s

95th percentile per-packet one-way delay: 57.960 ms

Loss rate: 0.00%

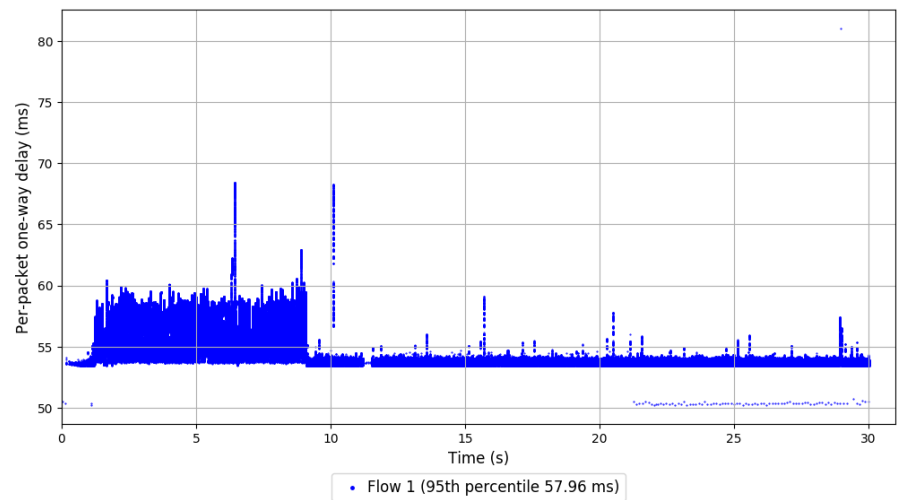
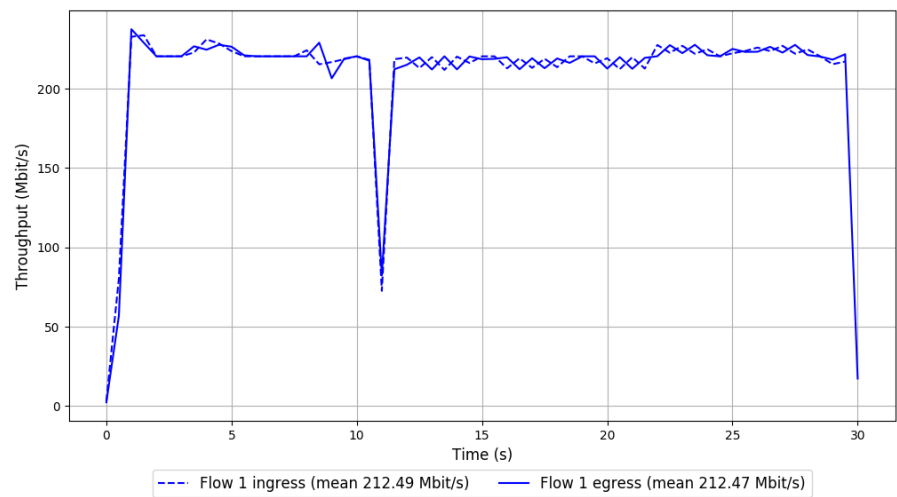
-- Flow 1:

Average throughput: 212.47 Mbit/s

95th percentile per-packet one-way delay: 57.960 ms

Loss rate: 0.00%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-02-27 17:19:22

End at: 2018-02-27 17:19:52

Below is generated by plot.py at 2018-02-27 21:11:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 210.40 Mbit/s

95th percentile per-packet one-way delay: 57.856 ms

Loss rate: 0.00%

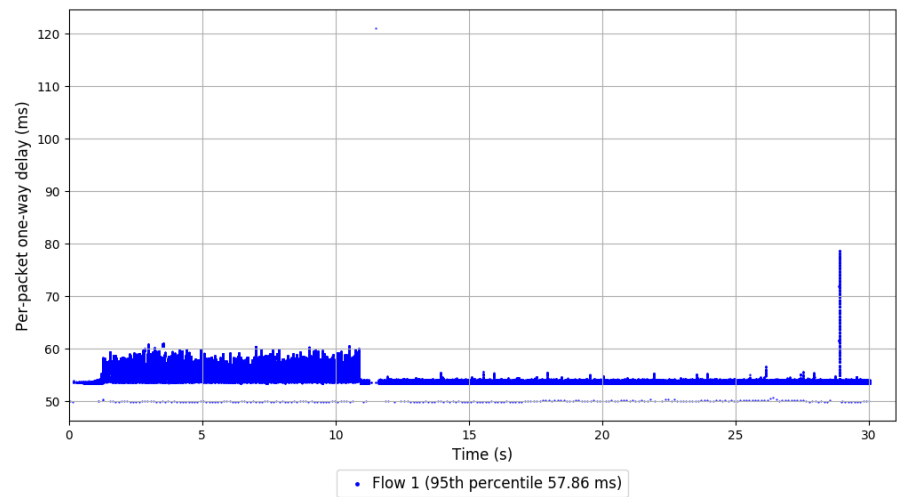
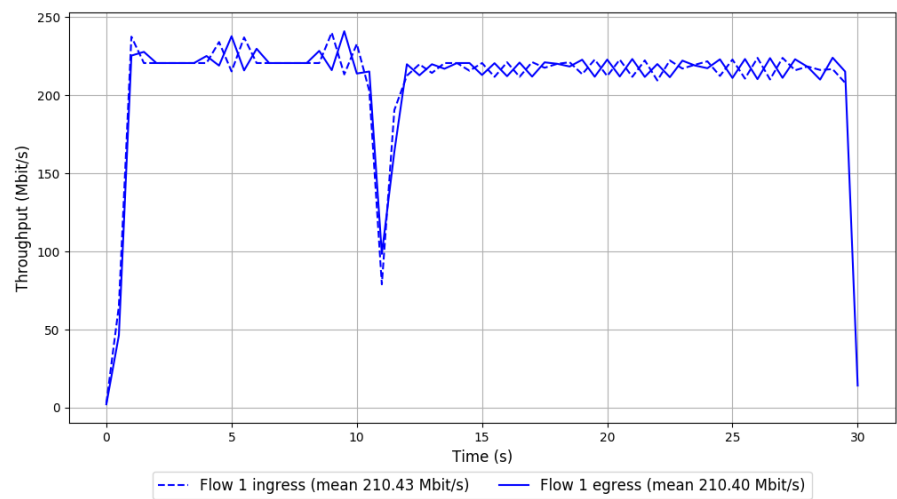
-- Flow 1:

Average throughput: 210.40 Mbit/s

95th percentile per-packet one-way delay: 57.856 ms

Loss rate: 0.00%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-02-27 17:34:04

End at: 2018-02-27 17:34:34

Below is generated by plot.py at 2018-02-27 21:11:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 213.16 Mbit/s

95th percentile per-packet one-way delay: 57.460 ms

Loss rate: 0.00%

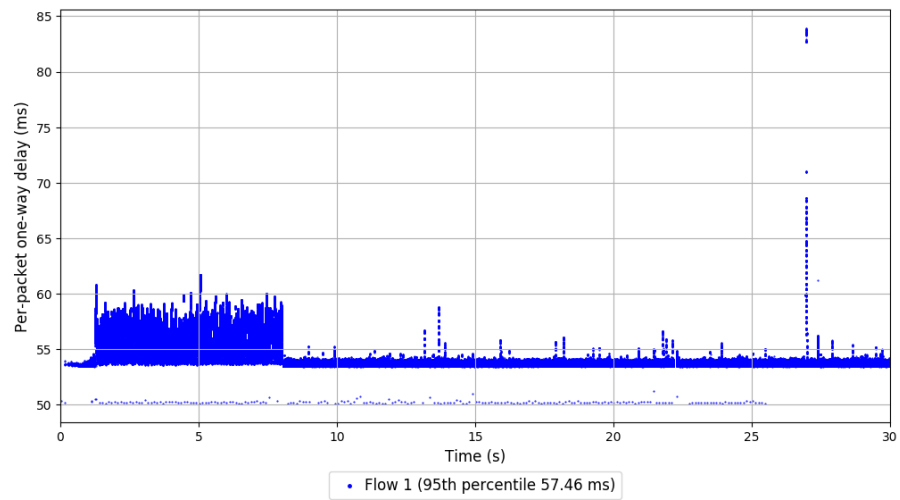
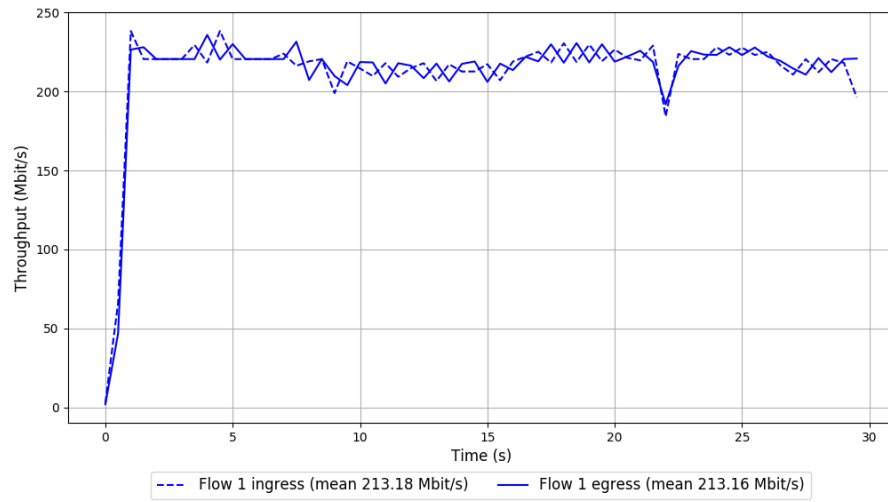
-- Flow 1:

Average throughput: 213.16 Mbit/s

95th percentile per-packet one-way delay: 57.460 ms

Loss rate: 0.00%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-02-27 17:48:32

End at: 2018-02-27 17:49:02

Below is generated by plot.py at 2018-02-27 21:11:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 218.38 Mbit/s

95th percentile per-packet one-way delay: 58.535 ms

Loss rate: 0.00%

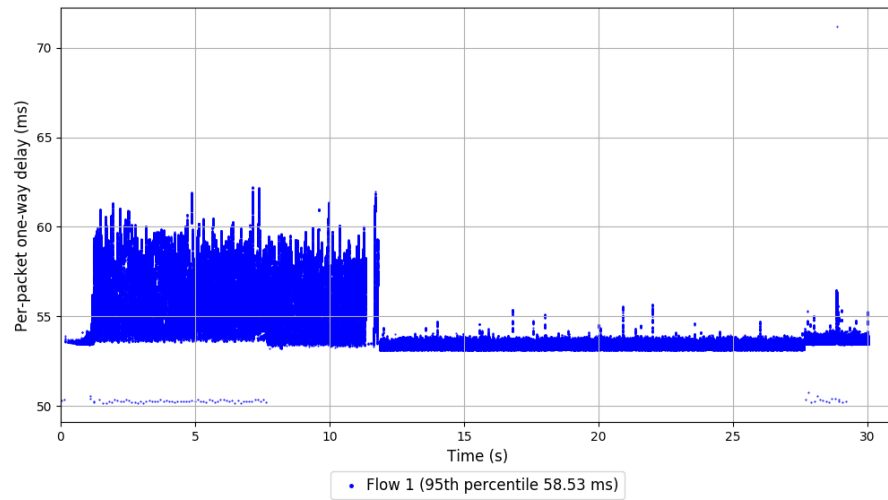
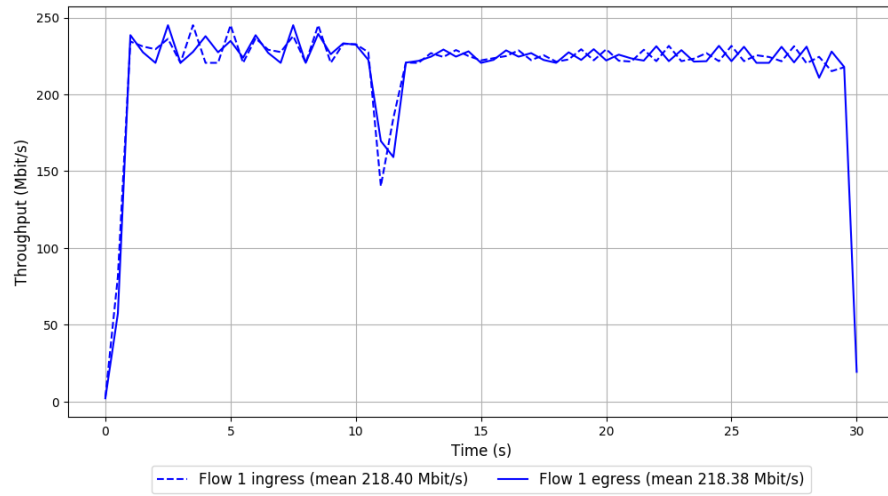
-- Flow 1:

Average throughput: 218.38 Mbit/s

95th percentile per-packet one-way delay: 58.535 ms

Loss rate: 0.00%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-02-27 18:03:14

End at: 2018-02-27 18:03:44

Below is generated by plot.py at 2018-02-27 21:11:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 213.49 Mbit/s

95th percentile per-packet one-way delay: 58.072 ms

Loss rate: 0.00%

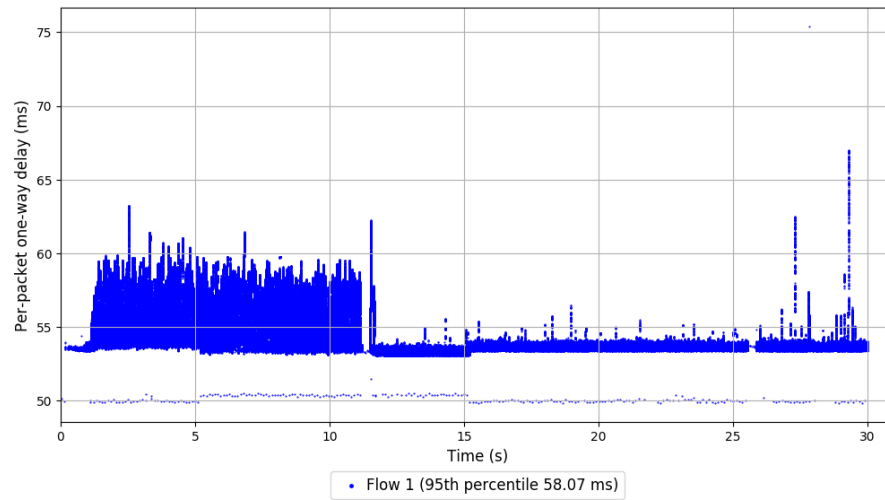
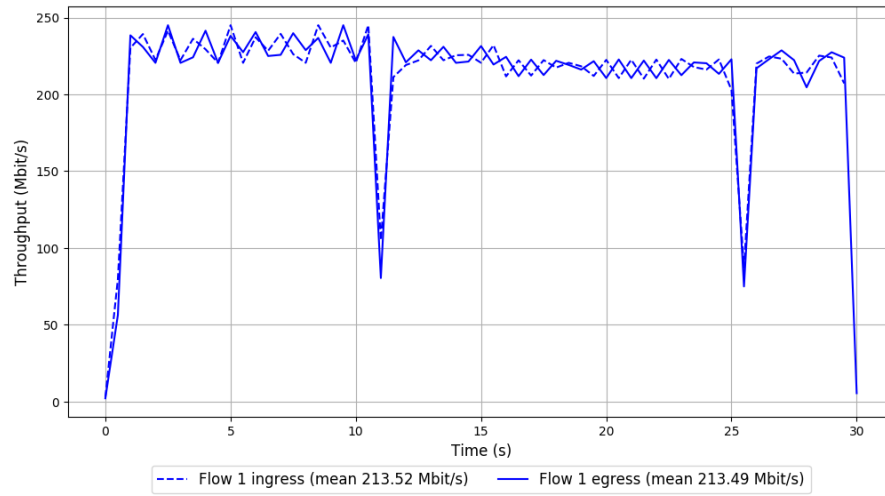
-- Flow 1:

Average throughput: 213.49 Mbit/s

95th percentile per-packet one-way delay: 58.072 ms

Loss rate: 0.00%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-02-27 18:17:41

End at: 2018-02-27 18:18:11

Below is generated by plot.py at 2018-02-27 21:11:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 207.17 Mbit/s

95th percentile per-packet one-way delay: 56.837 ms

Loss rate: 0.00%

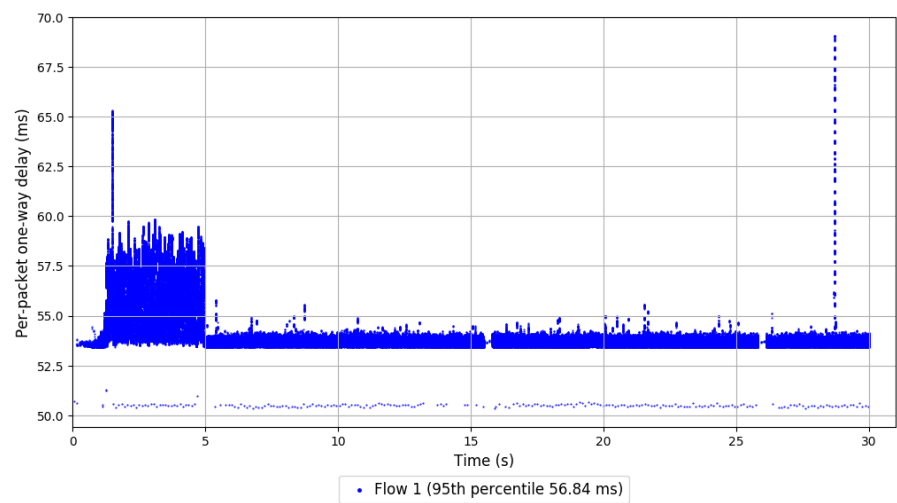
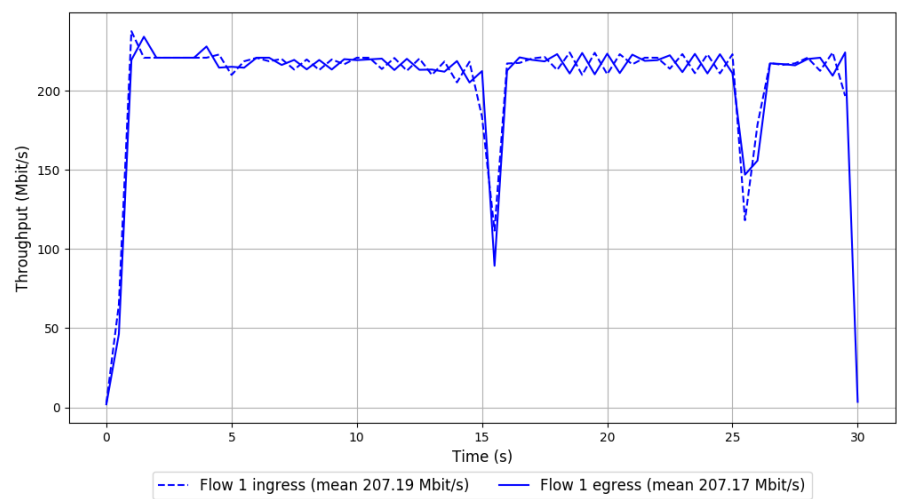
-- Flow 1:

Average throughput: 207.17 Mbit/s

95th percentile per-packet one-way delay: 56.837 ms

Loss rate: 0.00%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-02-27 18:32:18

End at: 2018-02-27 18:32:48

Below is generated by plot.py at 2018-02-27 21:11:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 216.18 Mbit/s

95th percentile per-packet one-way delay: 55.945 ms

Loss rate: 0.00%

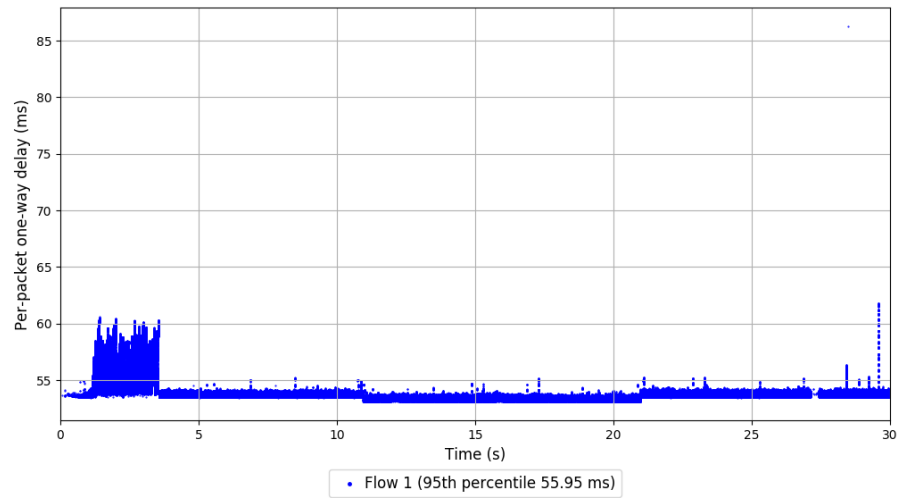
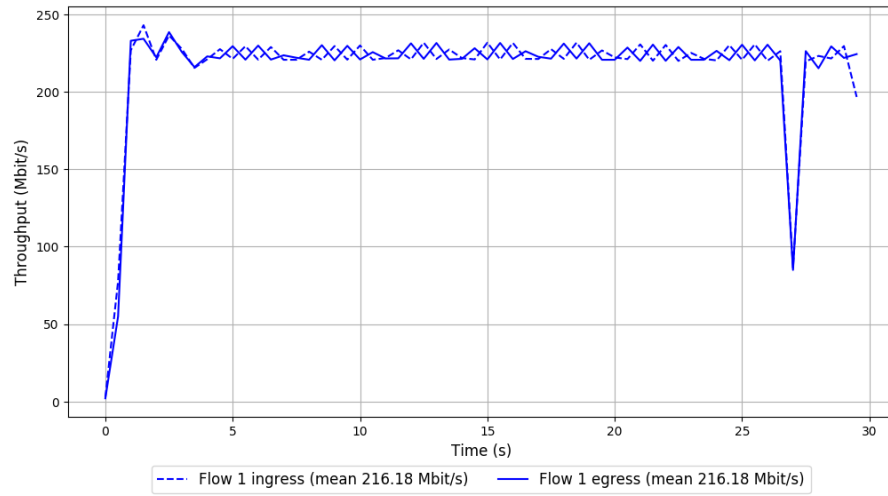
-- Flow 1:

Average throughput: 216.18 Mbit/s

95th percentile per-packet one-way delay: 55.945 ms

Loss rate: 0.00%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-02-27 18:47:21

End at: 2018-02-27 18:47:51

Below is generated by plot.py at 2018-02-27 21:11:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 205.55 Mbit/s

95th percentile per-packet one-way delay: 53.943 ms

Loss rate: 0.00%

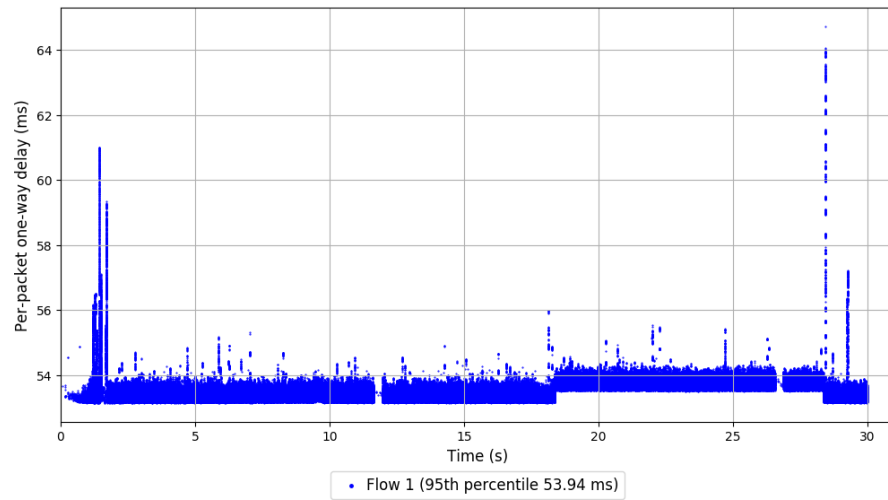
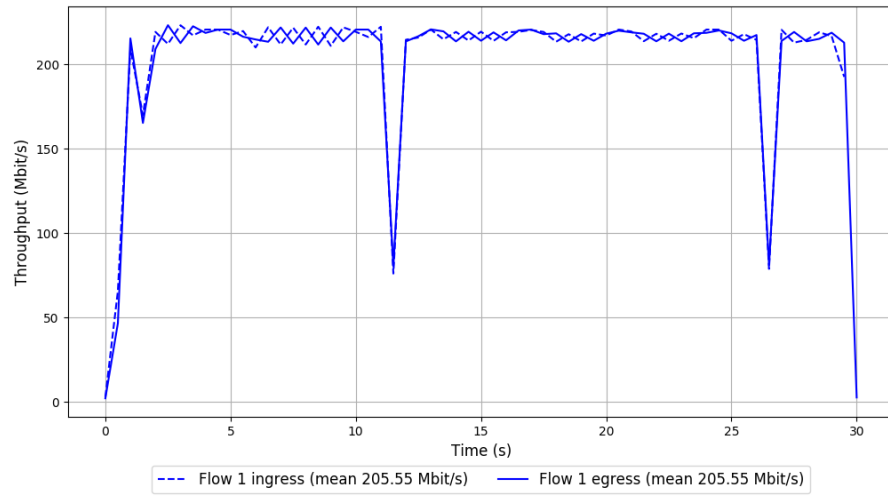
-- Flow 1:

Average throughput: 205.55 Mbit/s

95th percentile per-packet one-way delay: 53.943 ms

Loss rate: 0.00%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-02-27 19:01:57

End at: 2018-02-27 19:02:28

Below is generated by plot.py at 2018-02-27 21:15:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 215.99 Mbit/s

95th percentile per-packet one-way delay: 57.830 ms

Loss rate: 0.00%

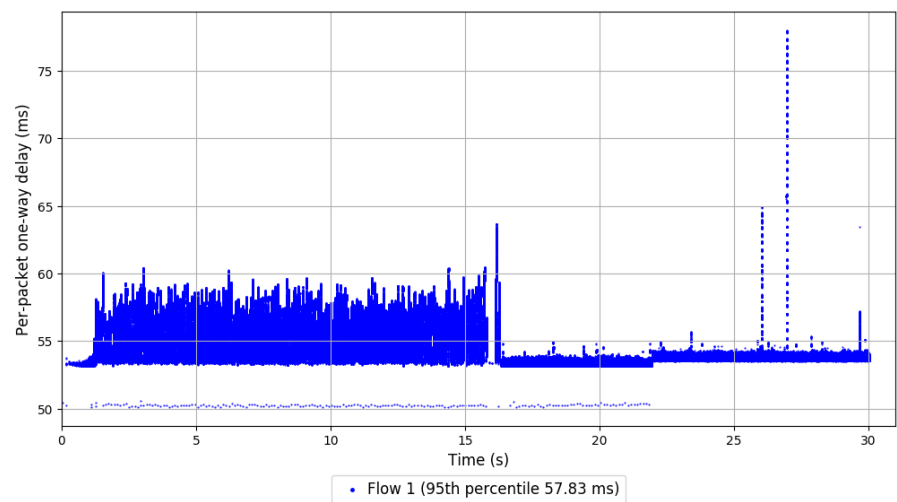
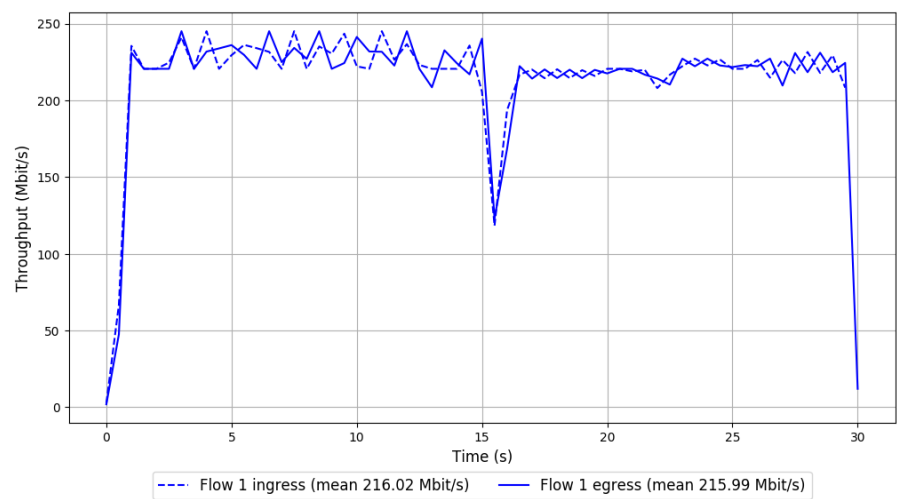
-- Flow 1:

Average throughput: 215.99 Mbit/s

95th percentile per-packet one-way delay: 57.830 ms

Loss rate: 0.00%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-02-27 19:16:34

End at: 2018-02-27 19:17:04

Below is generated by plot.py at 2018-02-27 21:15:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 208.65 Mbit/s

95th percentile per-packet one-way delay: 55.553 ms

Loss rate: 0.00%

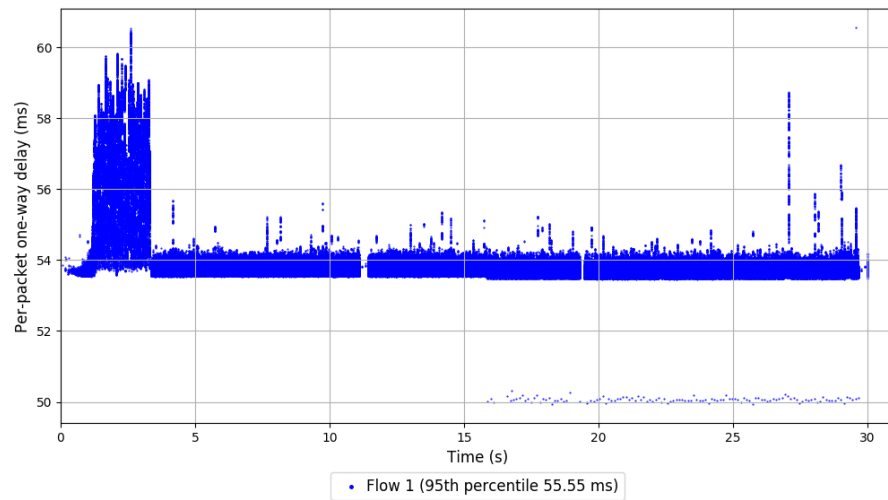
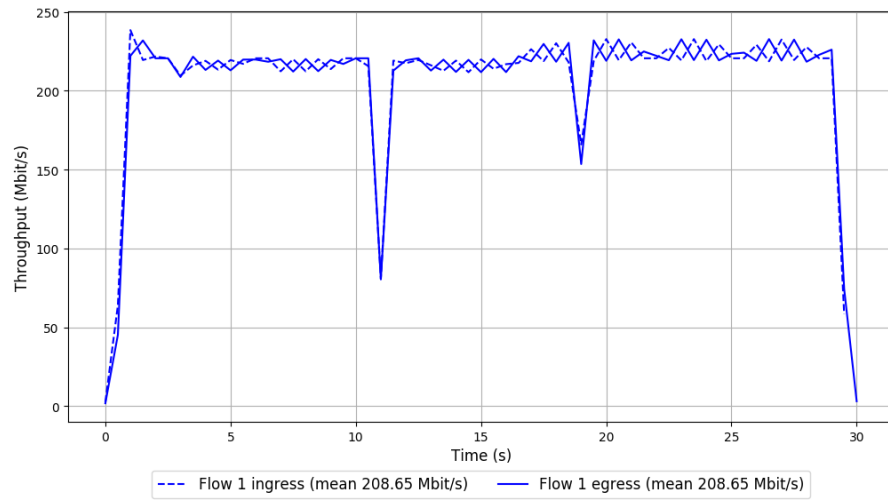
-- Flow 1:

Average throughput: 208.65 Mbit/s

95th percentile per-packet one-way delay: 55.553 ms

Loss rate: 0.00%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-02-27 17:05:25

End at: 2018-02-27 17:05:55

Below is generated by plot.py at 2018-02-27 21:15:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 132.12 Mbit/s

95th percentile per-packet one-way delay: 55.012 ms

Loss rate: 0.00%

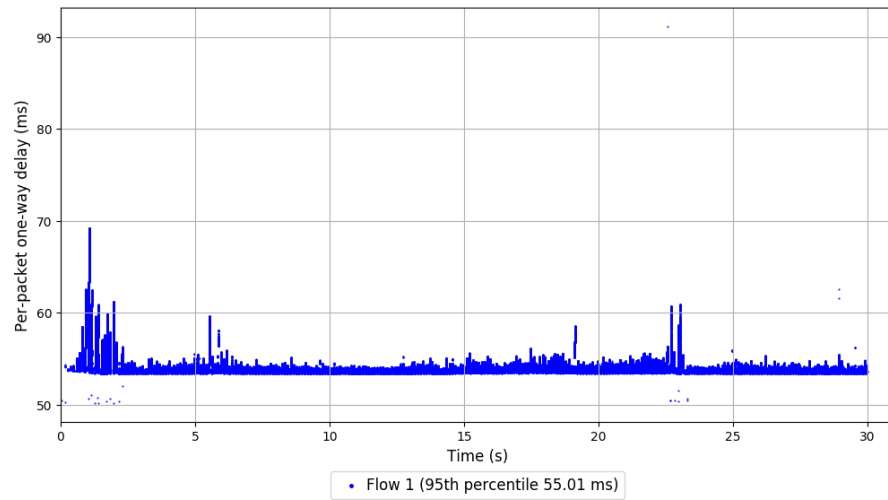
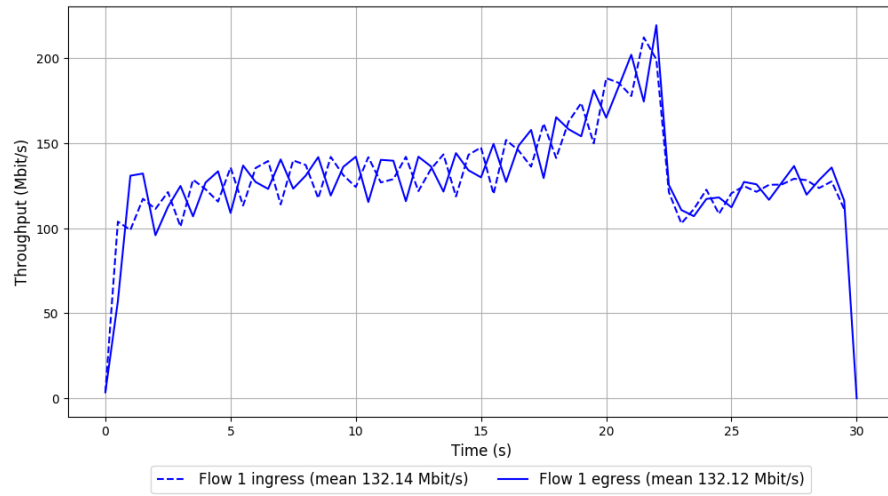
-- Flow 1:

Average throughput: 132.12 Mbit/s

95th percentile per-packet one-way delay: 55.012 ms

Loss rate: 0.00%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-02-27 17:20:09

End at: 2018-02-27 17:20:39

Below is generated by plot.py at 2018-02-27 21:15:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 145.38 Mbit/s

95th percentile per-packet one-way delay: 54.448 ms

Loss rate: 0.00%

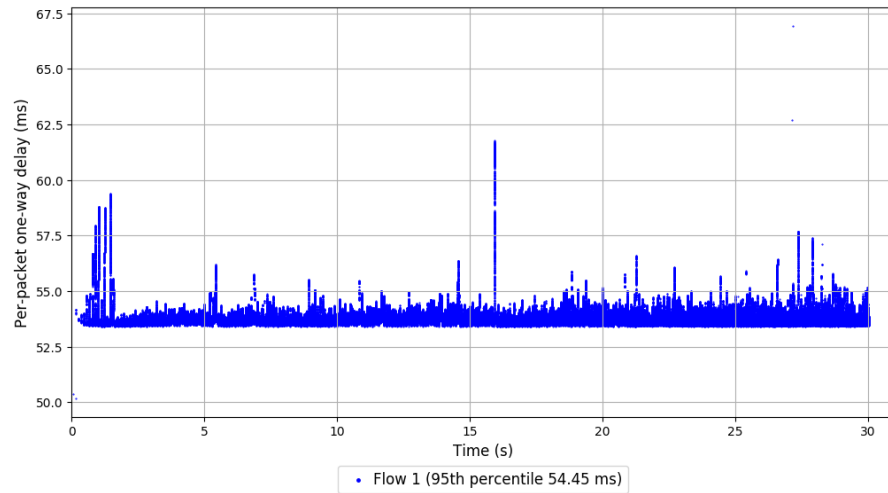
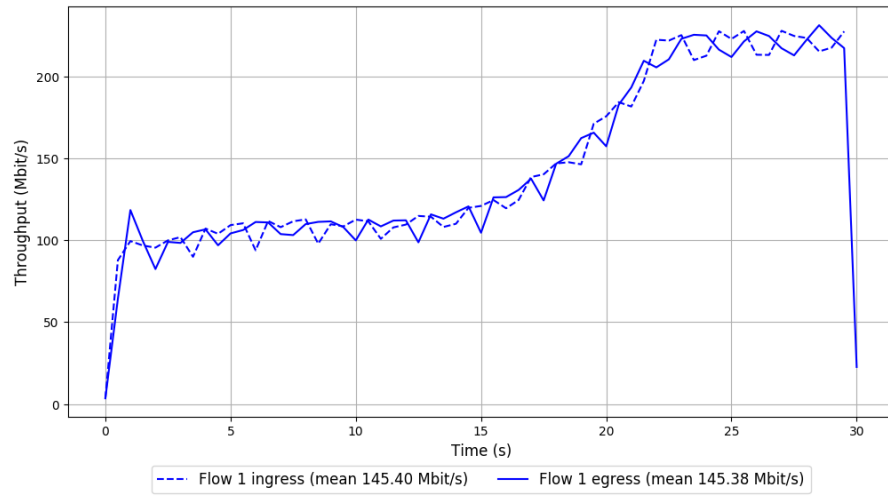
-- Flow 1:

Average throughput: 145.38 Mbit/s

95th percentile per-packet one-way delay: 54.448 ms

Loss rate: 0.00%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-02-27 17:34:50

End at: 2018-02-27 17:35:21

Below is generated by plot.py at 2018-02-27 21:15:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 169.01 Mbit/s

95th percentile per-packet one-way delay: 59.492 ms

Loss rate: 0.00%

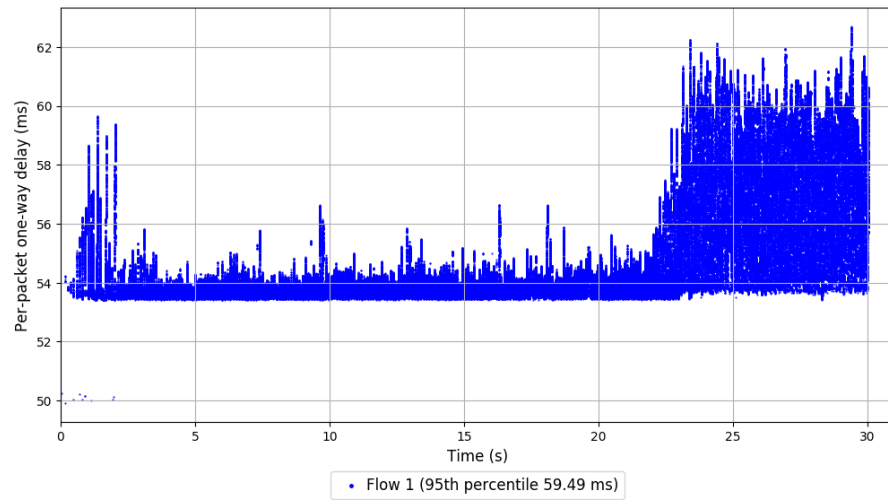
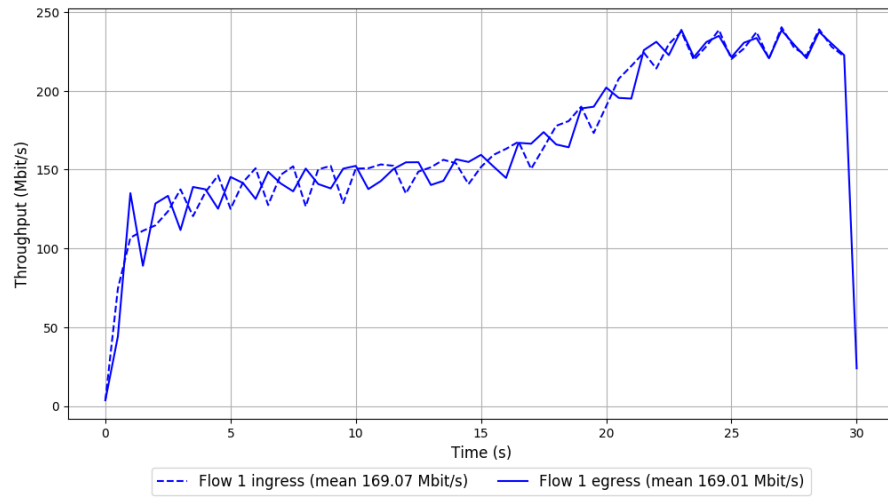
-- Flow 1:

Average throughput: 169.01 Mbit/s

95th percentile per-packet one-way delay: 59.492 ms

Loss rate: 0.00%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-02-27 17:49:19

End at: 2018-02-27 17:49:49

Below is generated by plot.py at 2018-02-27 21:15:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 128.17 Mbit/s

95th percentile per-packet one-way delay: 54.375 ms

Loss rate: 0.00%

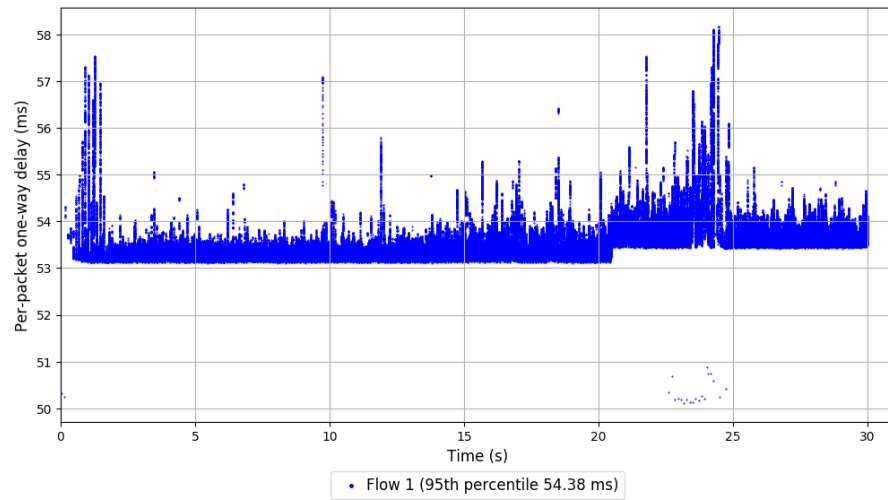
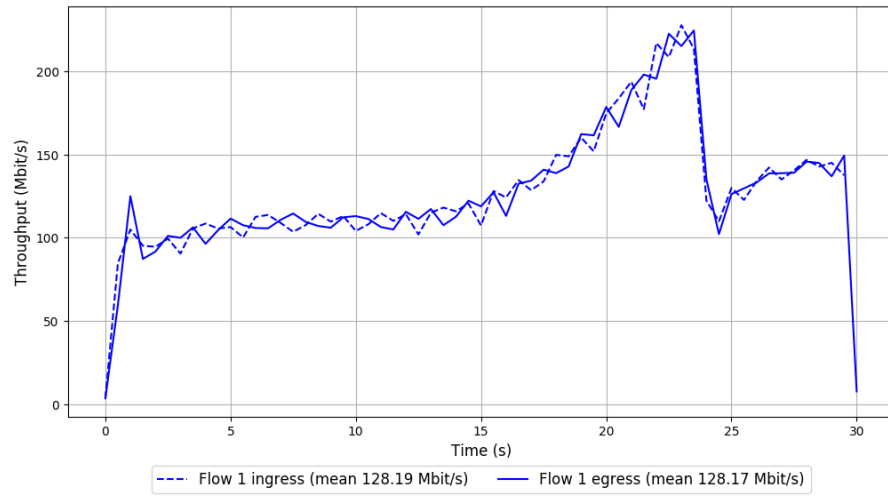
-- Flow 1:

Average throughput: 128.17 Mbit/s

95th percentile per-packet one-way delay: 54.375 ms

Loss rate: 0.00%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-02-27 18:04:01

End at: 2018-02-27 18:04:31

Below is generated by plot.py at 2018-02-27 21:15:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 218.00 Mbit/s

95th percentile per-packet one-way delay: 60.026 ms

Loss rate: 0.06%

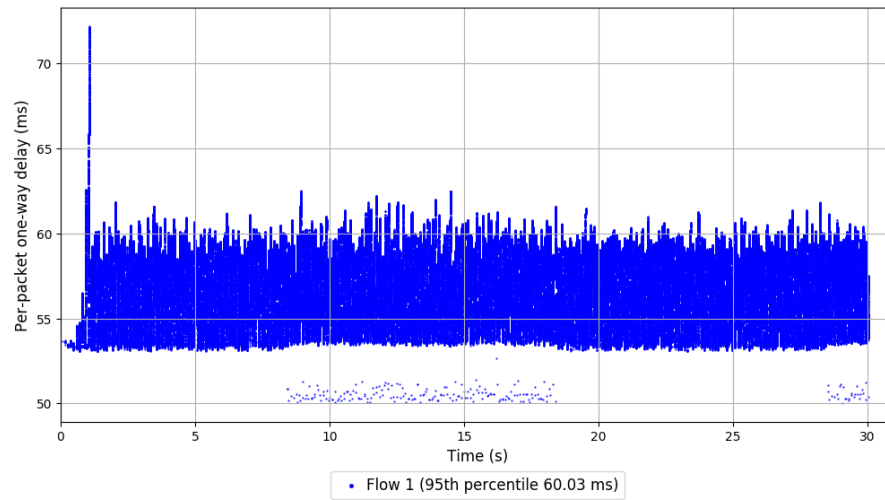
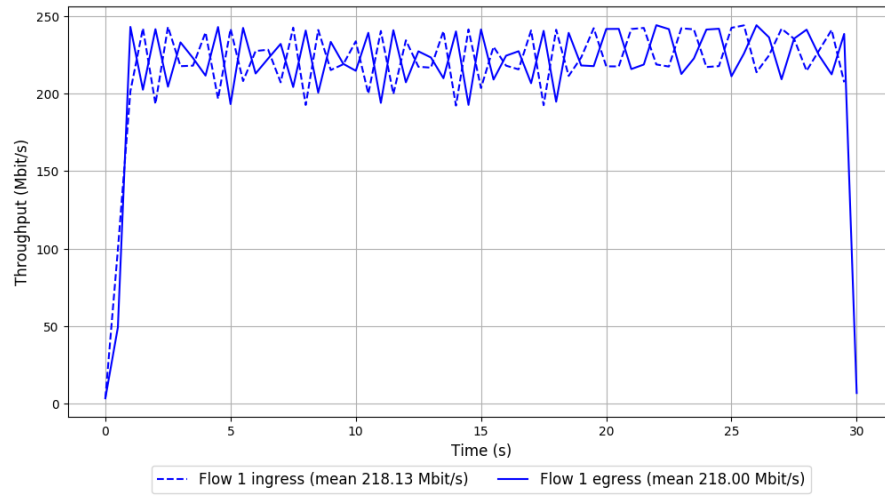
-- Flow 1:

Average throughput: 218.00 Mbit/s

95th percentile per-packet one-way delay: 60.026 ms

Loss rate: 0.06%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-02-27 18:18:27

End at: 2018-02-27 18:18:57

Below is generated by plot.py at 2018-02-27 21:15:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 158.20 Mbit/s

95th percentile per-packet one-way delay: 59.497 ms

Loss rate: 0.00%

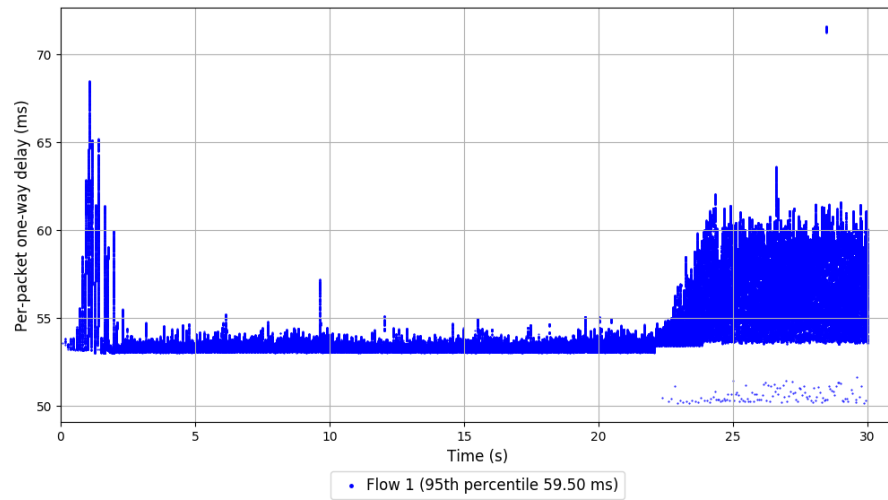
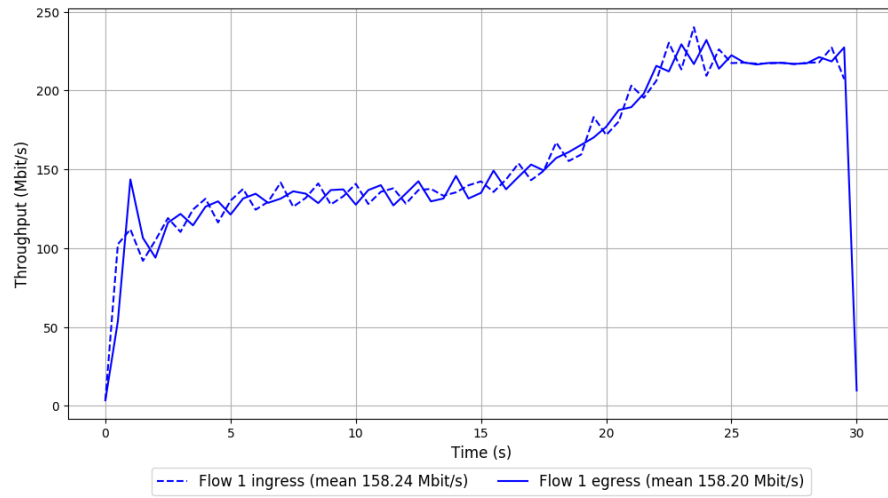
-- Flow 1:

Average throughput: 158.20 Mbit/s

95th percentile per-packet one-way delay: 59.497 ms

Loss rate: 0.00%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-02-27 18:33:05

End at: 2018-02-27 18:33:35

Below is generated by plot.py at 2018-02-27 21:16:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 121.02 Mbit/s

95th percentile per-packet one-way delay: 55.715 ms

Loss rate: 0.00%

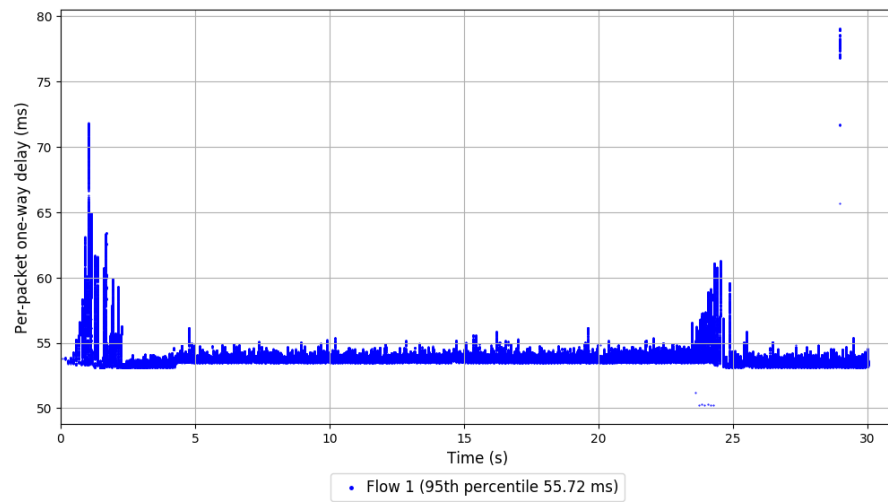
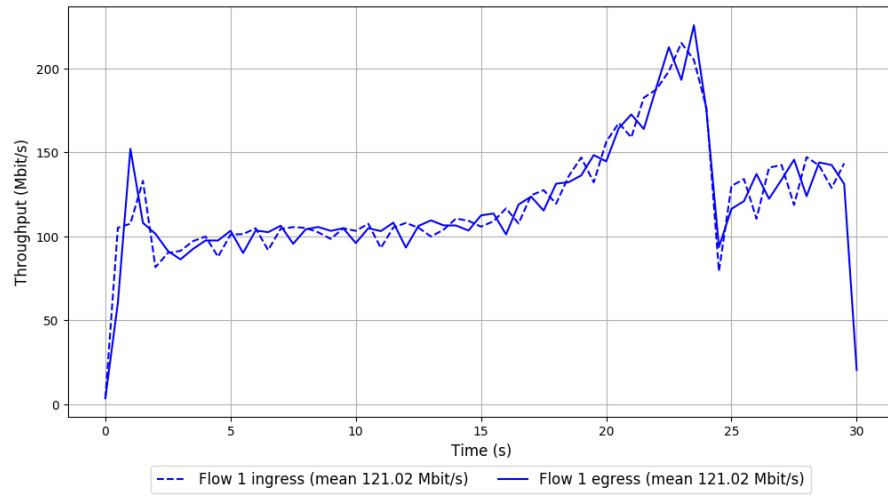
-- Flow 1:

Average throughput: 121.02 Mbit/s

95th percentile per-packet one-way delay: 55.715 ms

Loss rate: 0.00%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-02-27 18:48:07

End at: 2018-02-27 18:48:37

Below is generated by plot.py at 2018-02-27 21:17:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 170.88 Mbit/s

95th percentile per-packet one-way delay: 57.273 ms

Loss rate: 0.00%

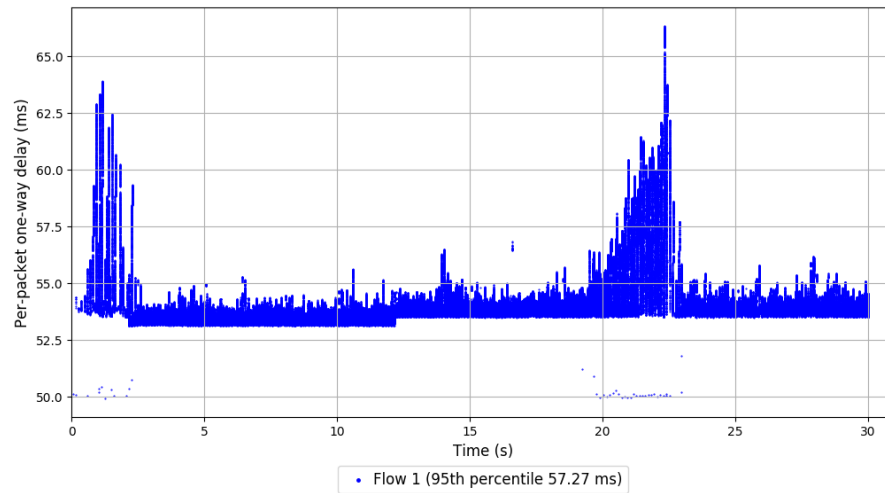
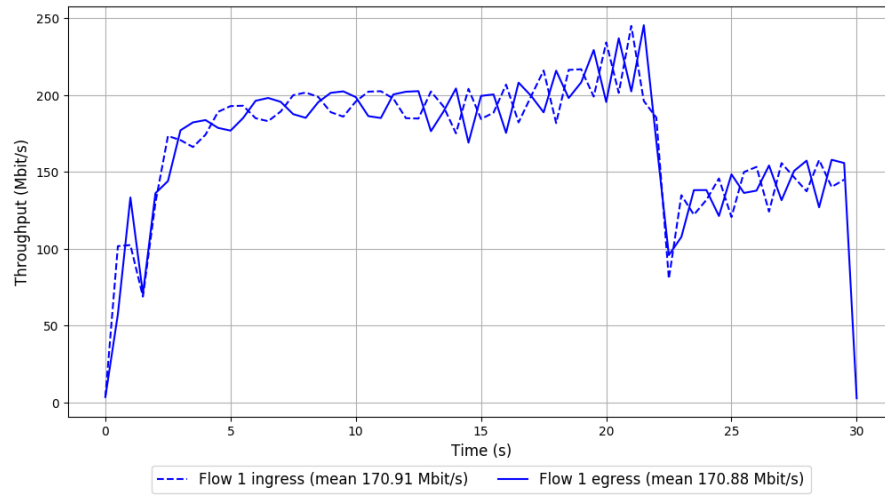
-- Flow 1:

Average throughput: 170.88 Mbit/s

95th percentile per-packet one-way delay: 57.273 ms

Loss rate: 0.00%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-02-27 19:02:44

End at: 2018-02-27 19:03:14

Below is generated by plot.py at 2018-02-27 21:17:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 156.03 Mbit/s

95th percentile per-packet one-way delay: 60.269 ms

Loss rate: 0.00%

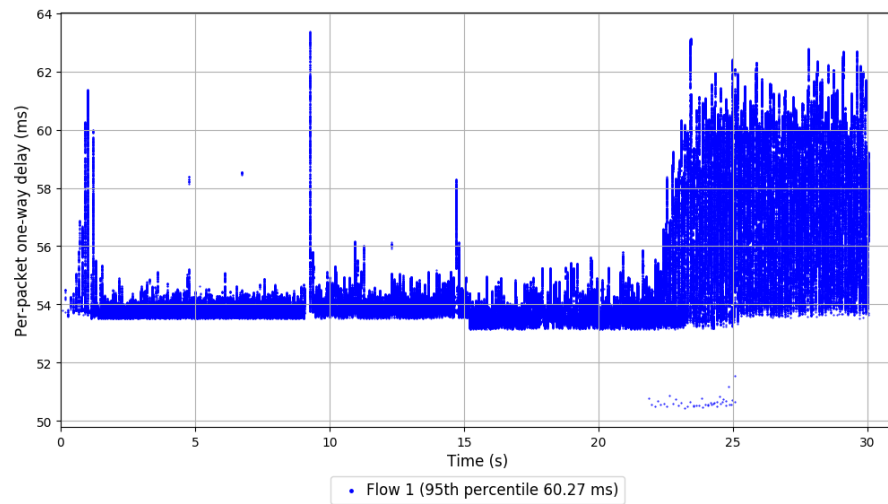
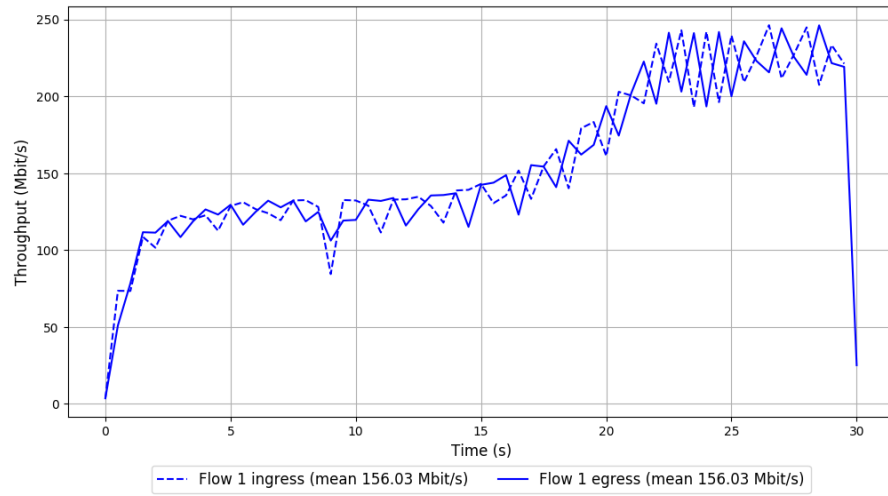
-- Flow 1:

Average throughput: 156.03 Mbit/s

95th percentile per-packet one-way delay: 60.269 ms

Loss rate: 0.00%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-02-27 19:17:20

End at: 2018-02-27 19:17:50

Below is generated by plot.py at 2018-02-27 21:17:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 130.13 Mbit/s

95th percentile per-packet one-way delay: 57.783 ms

Loss rate: 0.00%

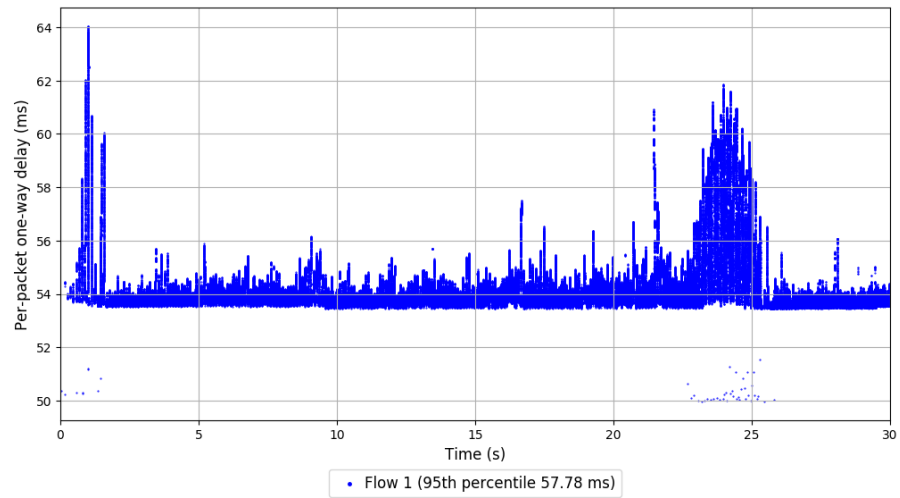
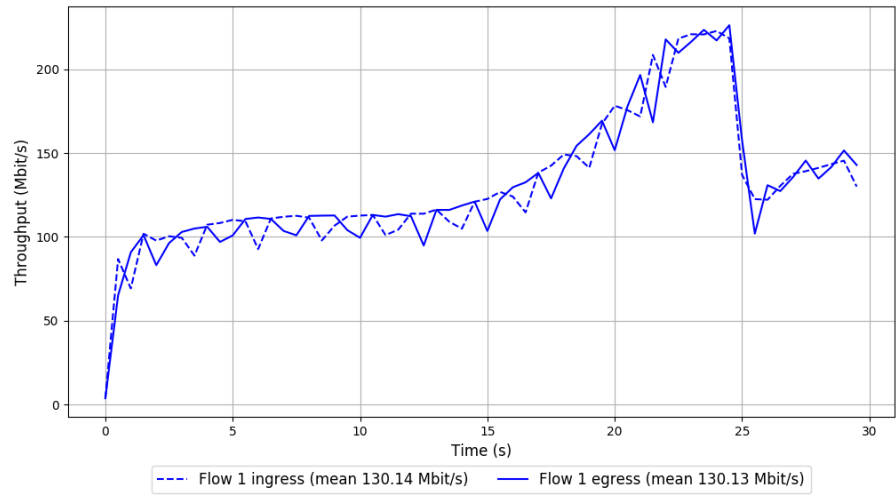
-- Flow 1:

Average throughput: 130.13 Mbit/s

95th percentile per-packet one-way delay: 57.783 ms

Loss rate: 0.00%

Run 10: Report of TCP Cubic — Data Link

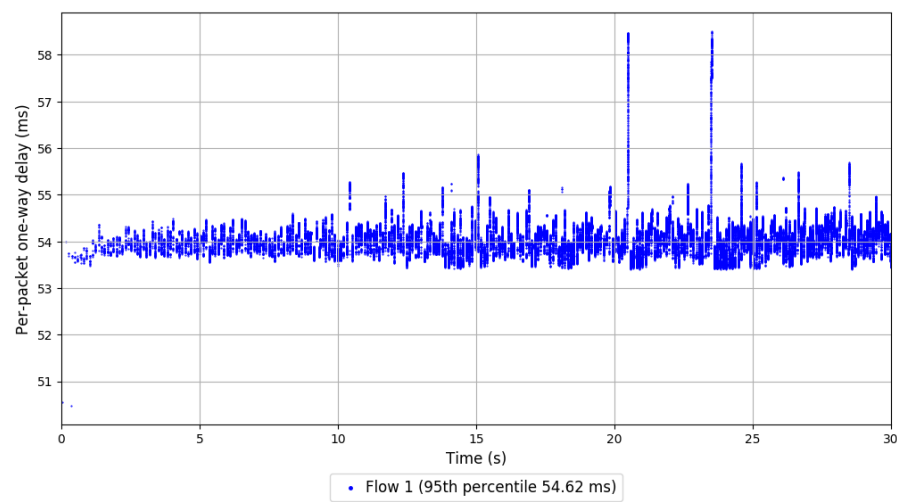
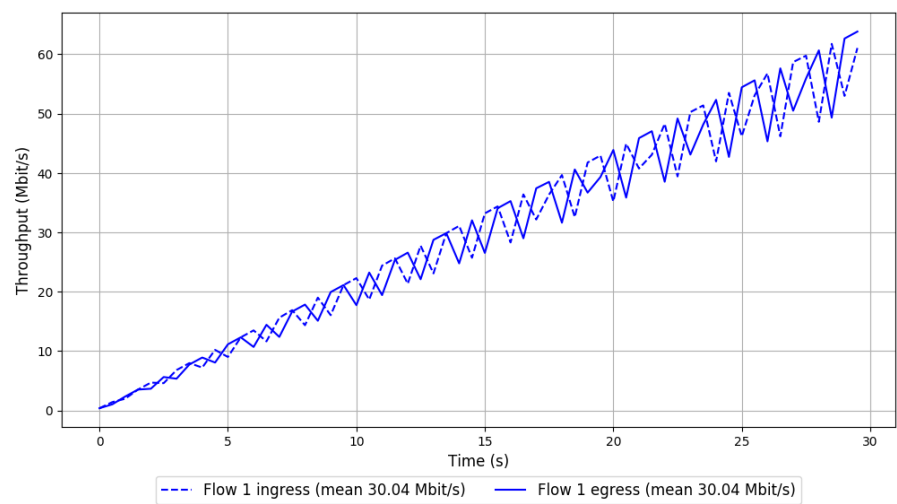


```
Run 1: Statistics of LEDBAT

Start at: 2018-02-27 17:10:54
End at: 2018-02-27 17:11:24

# Below is generated by plot.py at 2018-02-27 21:17:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 30.04 Mbit/s
95th percentile per-packet one-way delay: 54.624 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 30.04 Mbit/s
95th percentile per-packet one-way delay: 54.624 ms
Loss rate: 0.00%
```


Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-02-27 17:25:37

End at: 2018-02-27 17:26:07

Below is generated by plot.py at 2018-02-27 21:17:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 32.21 Mbit/s

95th percentile per-packet one-way delay: 54.702 ms

Loss rate: 0.00%

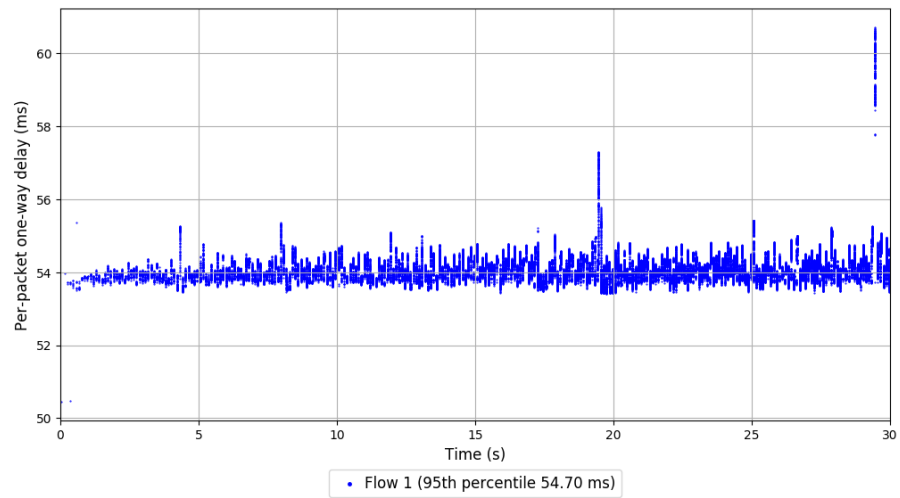
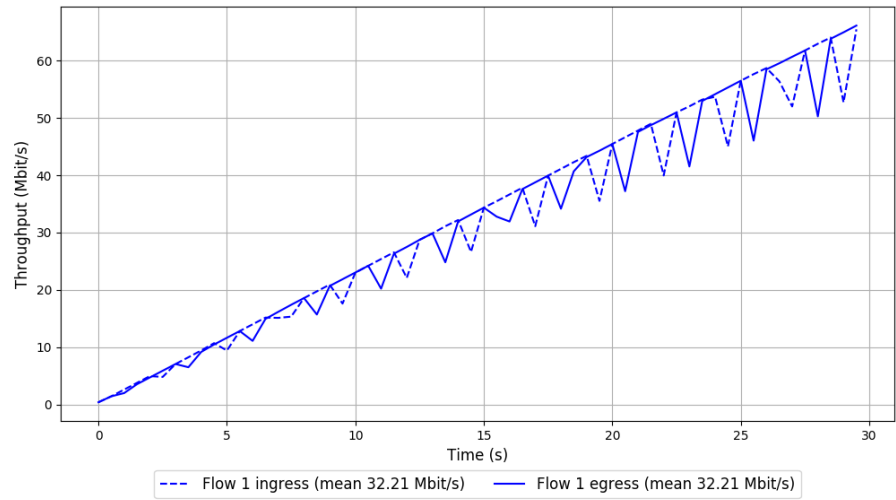
-- Flow 1:

Average throughput: 32.21 Mbit/s

95th percentile per-packet one-way delay: 54.702 ms

Loss rate: 0.00%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-02-27 17:40:19

End at: 2018-02-27 17:40:49

Below is generated by plot.py at 2018-02-27 21:17:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 30.15 Mbit/s

95th percentile per-packet one-way delay: 54.517 ms

Loss rate: 0.00%

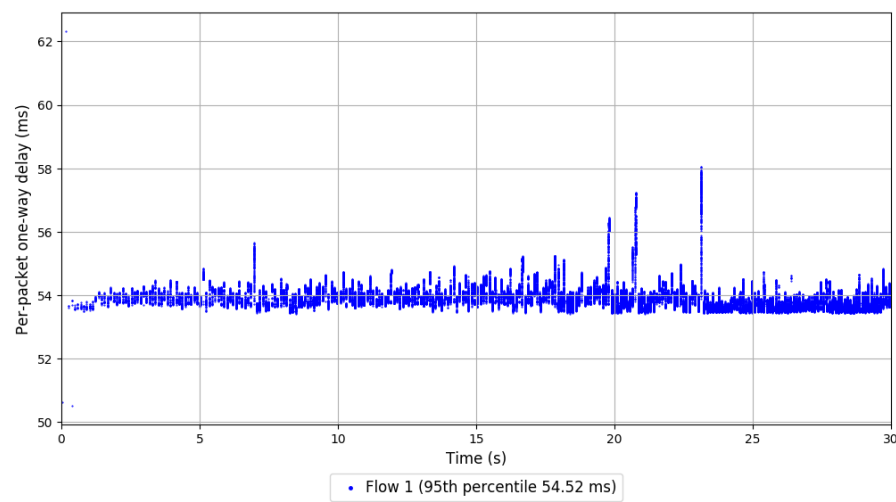
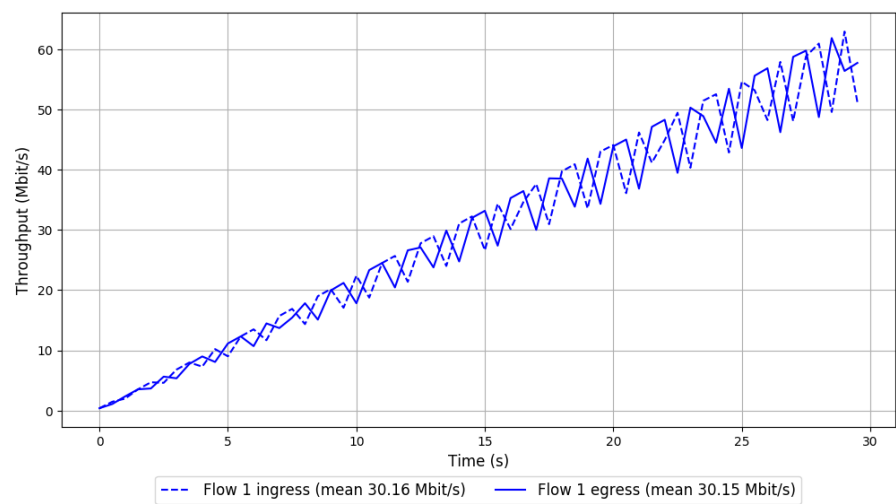
-- Flow 1:

Average throughput: 30.15 Mbit/s

95th percentile per-packet one-way delay: 54.517 ms

Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-02-27 17:55:00

End at: 2018-02-27 17:55:30

Below is generated by plot.py at 2018-02-27 21:17:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 30.37 Mbit/s

95th percentile per-packet one-way delay: 54.506 ms

Loss rate: 0.00%

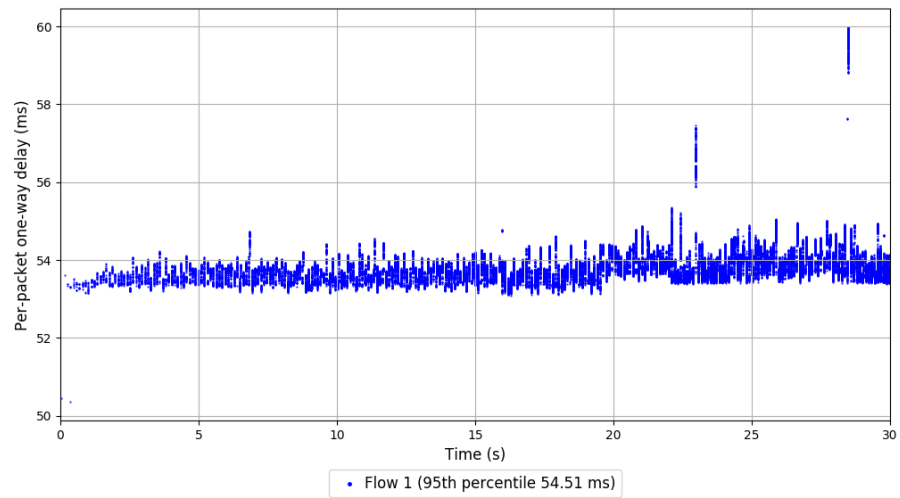
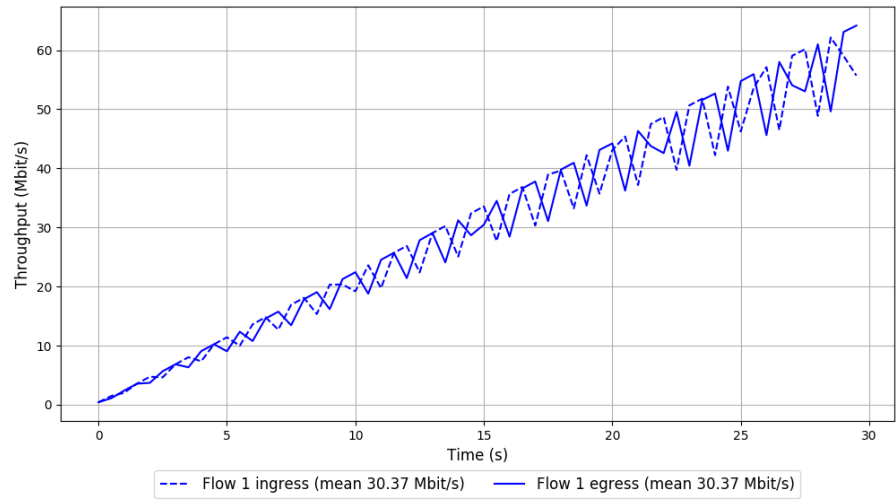
-- Flow 1:

Average throughput: 30.37 Mbit/s

95th percentile per-packet one-way delay: 54.506 ms

Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-02-27 18:09:29

End at: 2018-02-27 18:09:59

Below is generated by plot.py at 2018-02-27 21:17:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 30.23 Mbit/s

95th percentile per-packet one-way delay: 54.582 ms

Loss rate: 0.00%

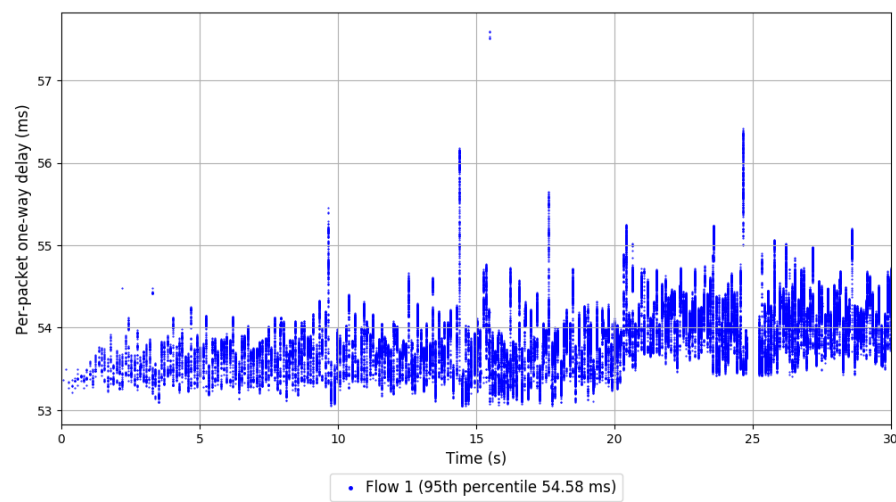
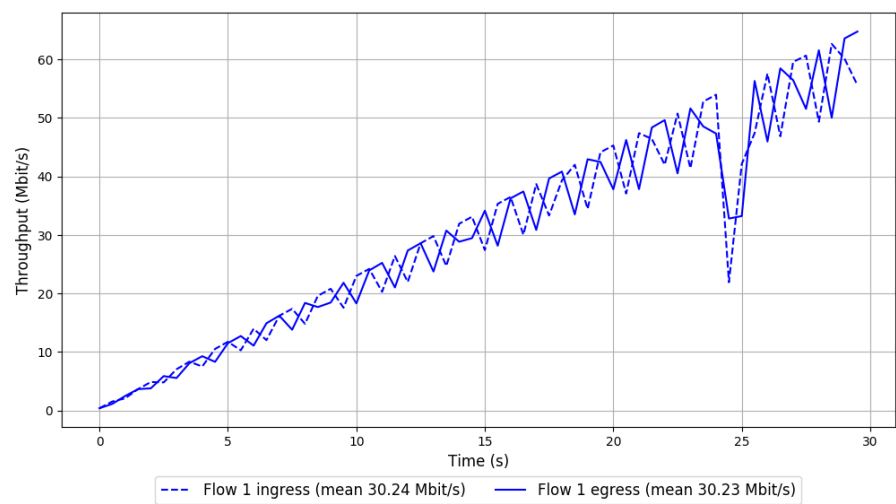
-- Flow 1:

Average throughput: 30.23 Mbit/s

95th percentile per-packet one-way delay: 54.582 ms

Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-02-27 18:23:55

End at: 2018-02-27 18:24:25

Below is generated by plot.py at 2018-02-27 21:17:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 30.49 Mbit/s

95th percentile per-packet one-way delay: 54.554 ms

Loss rate: 0.02%

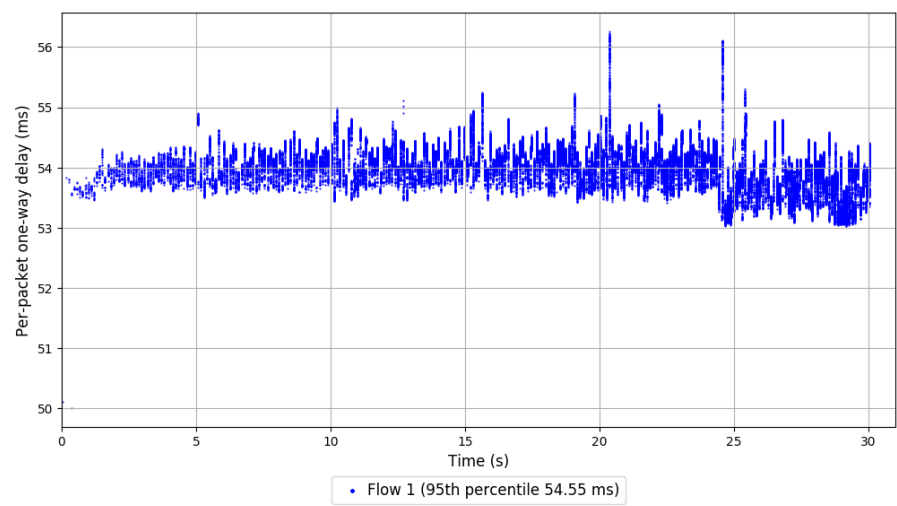
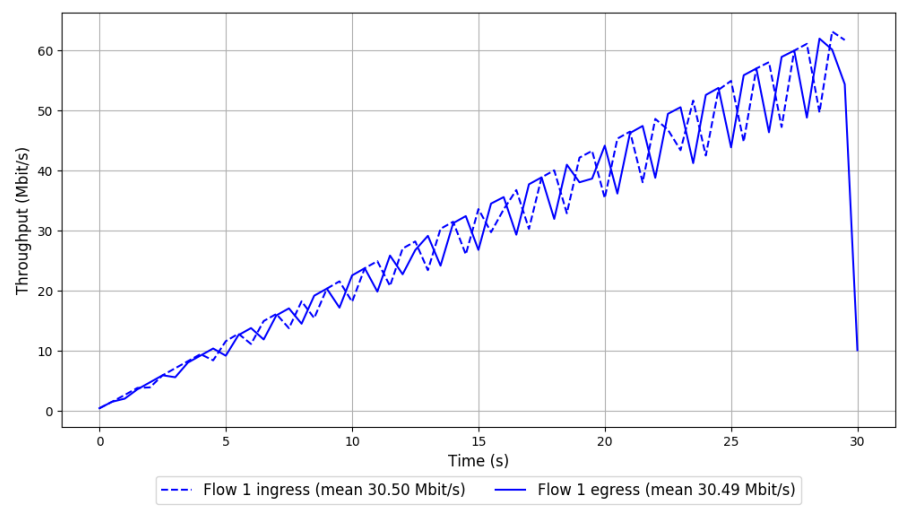
-- Flow 1:

Average throughput: 30.49 Mbit/s

95th percentile per-packet one-way delay: 54.554 ms

Loss rate: 0.02%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-02-27 18:38:44

End at: 2018-02-27 18:39:14

Below is generated by plot.py at 2018-02-27 21:17:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 31.48 Mbit/s

95th percentile per-packet one-way delay: 54.435 ms

Loss rate: 0.00%

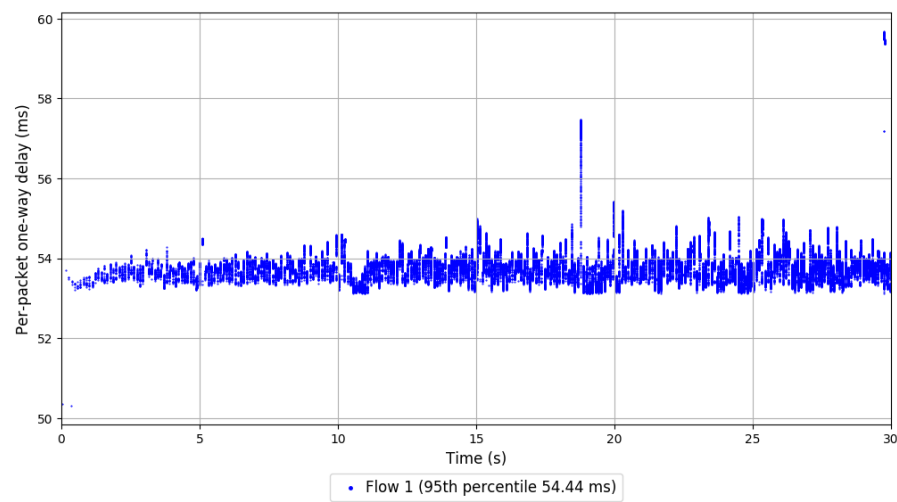
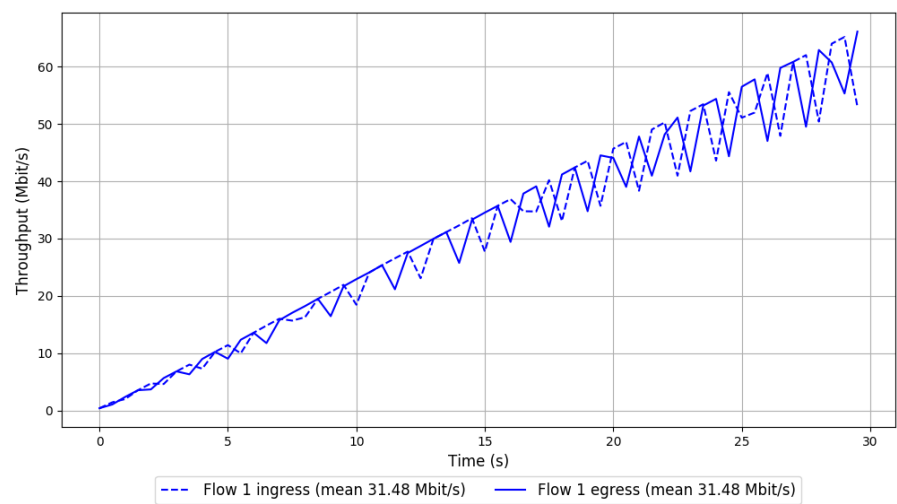
-- Flow 1:

Average throughput: 31.48 Mbit/s

95th percentile per-packet one-way delay: 54.435 ms

Loss rate: 0.00%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-02-27 18:53:41

End at: 2018-02-27 18:54:11

Below is generated by plot.py at 2018-02-27 21:17:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 29.44 Mbit/s

95th percentile per-packet one-way delay: 54.531 ms

Loss rate: 0.00%

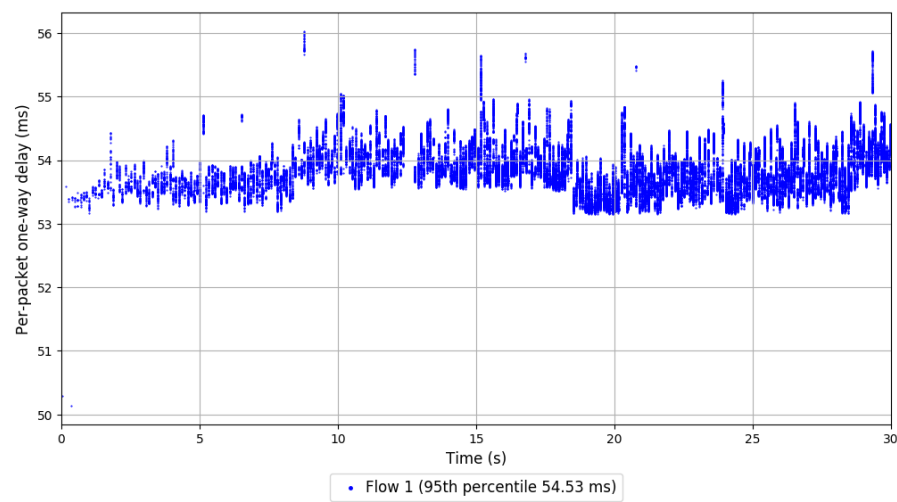
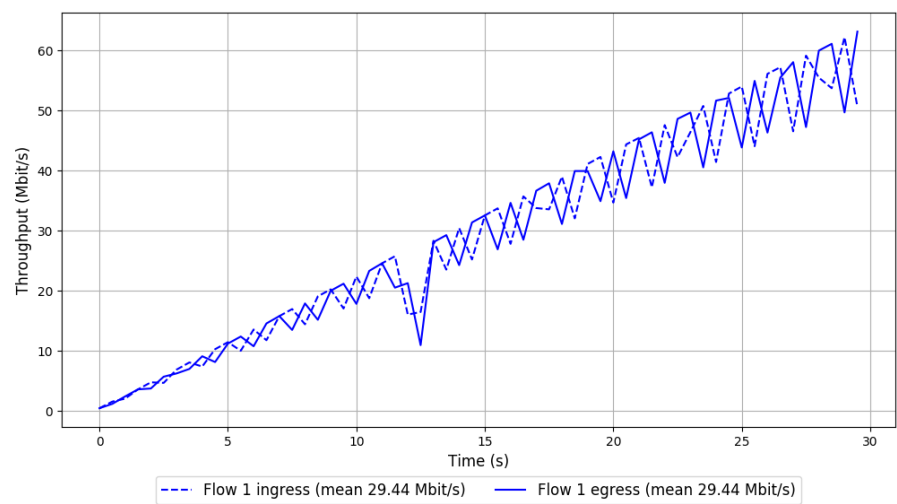
-- Flow 1:

Average throughput: 29.44 Mbit/s

95th percentile per-packet one-way delay: 54.531 ms

Loss rate: 0.00%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-02-27 19:08:24

End at: 2018-02-27 19:08:54

Below is generated by plot.py at 2018-02-27 21:17:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 31.39 Mbit/s

95th percentile per-packet one-way delay: 54.704 ms

Loss rate: 0.00%

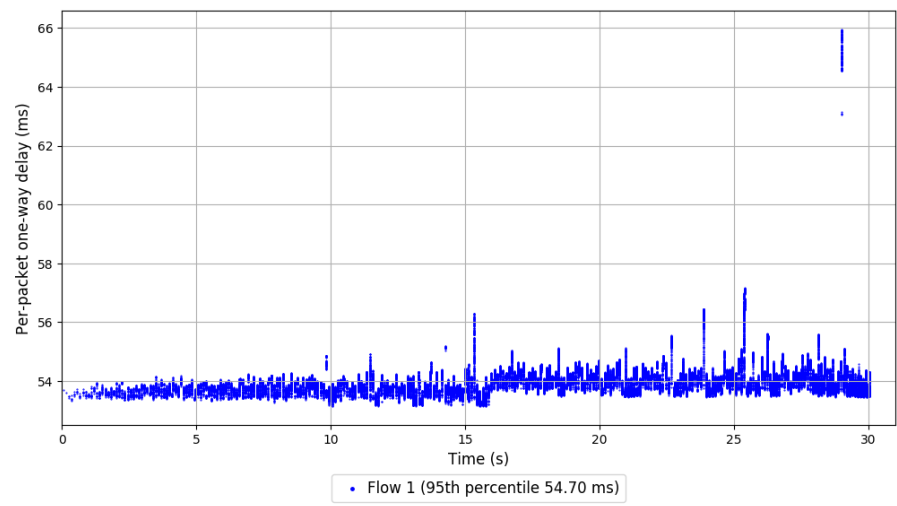
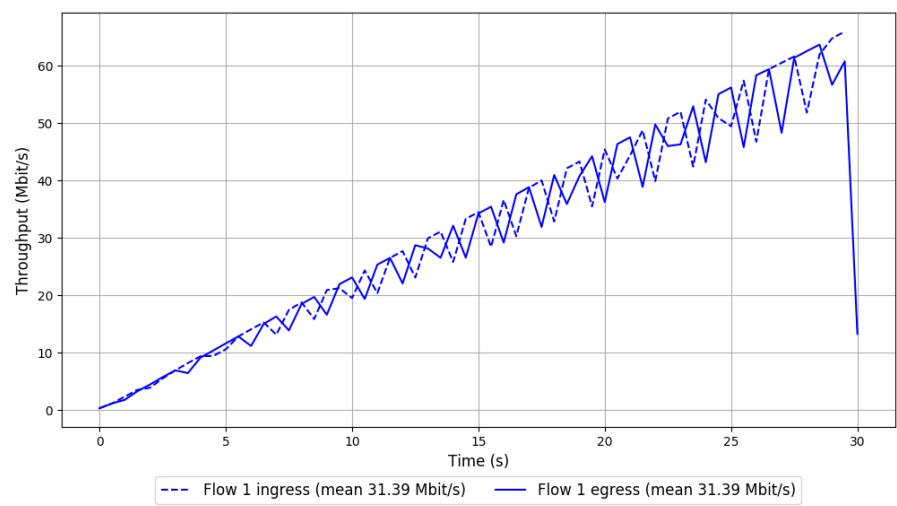
-- Flow 1:

Average throughput: 31.39 Mbit/s

95th percentile per-packet one-way delay: 54.704 ms

Loss rate: 0.00%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-02-27 19:23:09

End at: 2018-02-27 19:23:39

Below is generated by plot.py at 2018-02-27 21:17:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 32.17 Mbit/s

95th percentile per-packet one-way delay: 54.674 ms

Loss rate: 0.00%

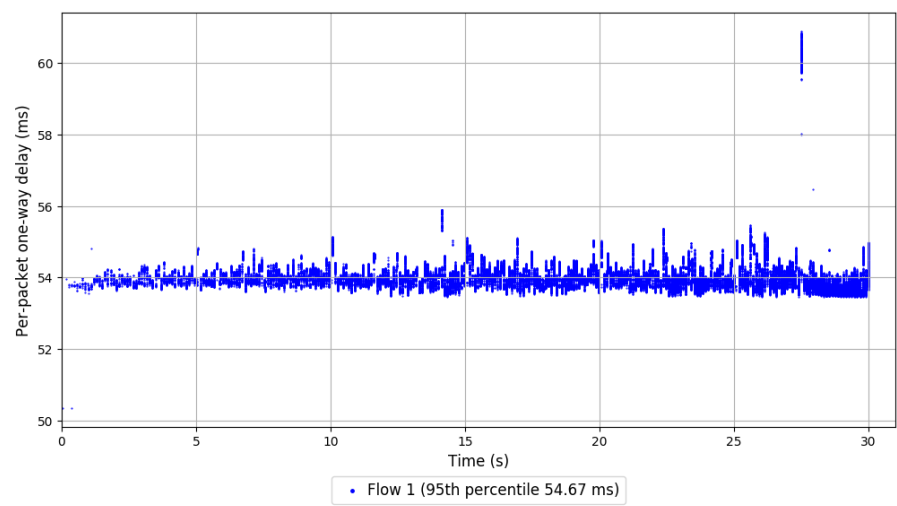
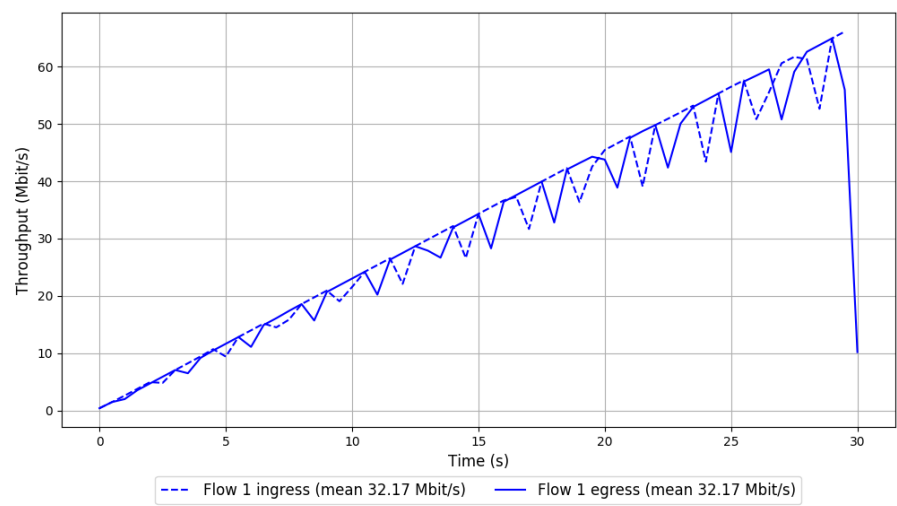
-- Flow 1:

Average throughput: 32.17 Mbit/s

95th percentile per-packet one-way delay: 54.674 ms

Loss rate: 0.00%

Run 10: Report of LEDBAT — Data Link



Run 1: Statistics of PCC

Start at: 2018-02-27 17:03:44

End at: 2018-02-27 17:04:14

Below is generated by plot.py at 2018-02-27 21:25:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 512.38 Mbit/s

95th percentile per-packet one-way delay: 106.481 ms

Loss rate: 0.27%

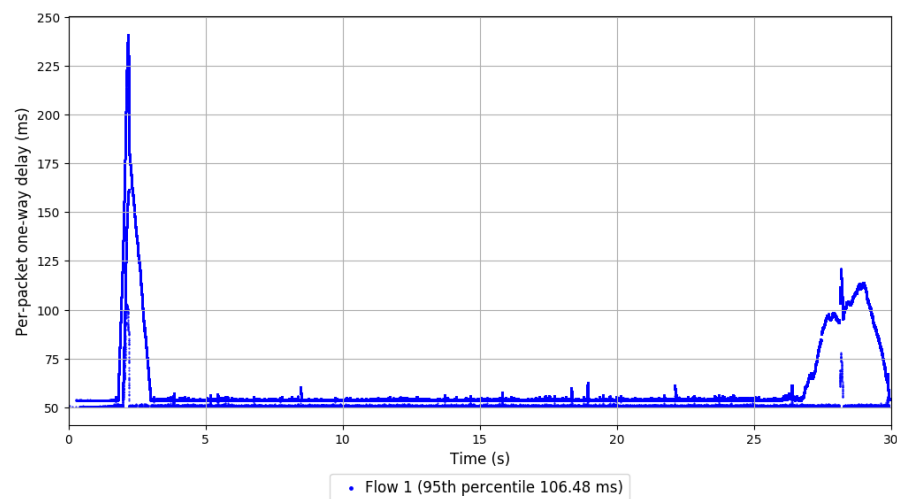
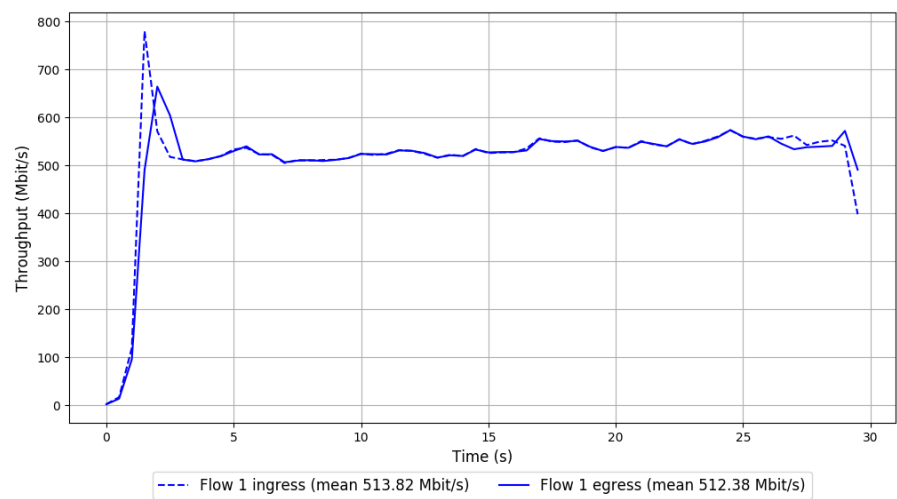
-- Flow 1:

Average throughput: 512.38 Mbit/s

95th percentile per-packet one-way delay: 106.481 ms

Loss rate: 0.27%

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2018-02-27 17:18:28

End at: 2018-02-27 17:18:58

Below is generated by plot.py at 2018-02-27 21:25:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 515.89 Mbit/s

95th percentile per-packet one-way delay: 61.663 ms

Loss rate: 0.31%

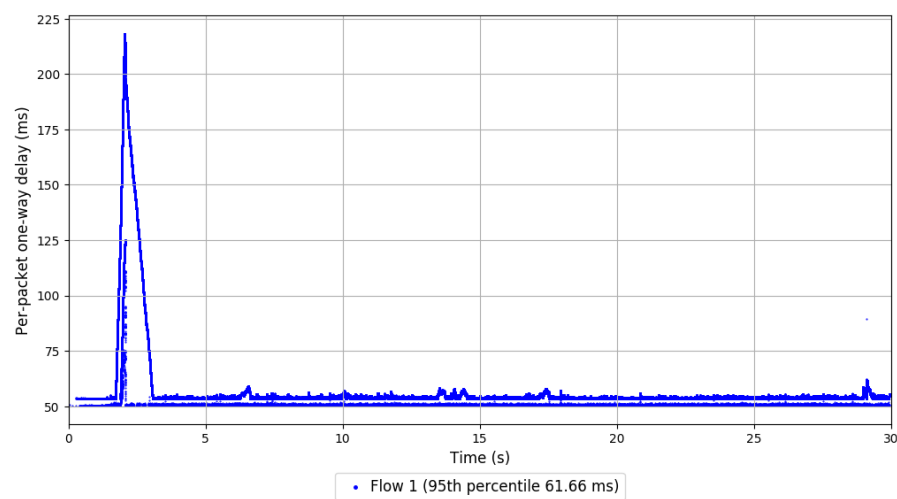
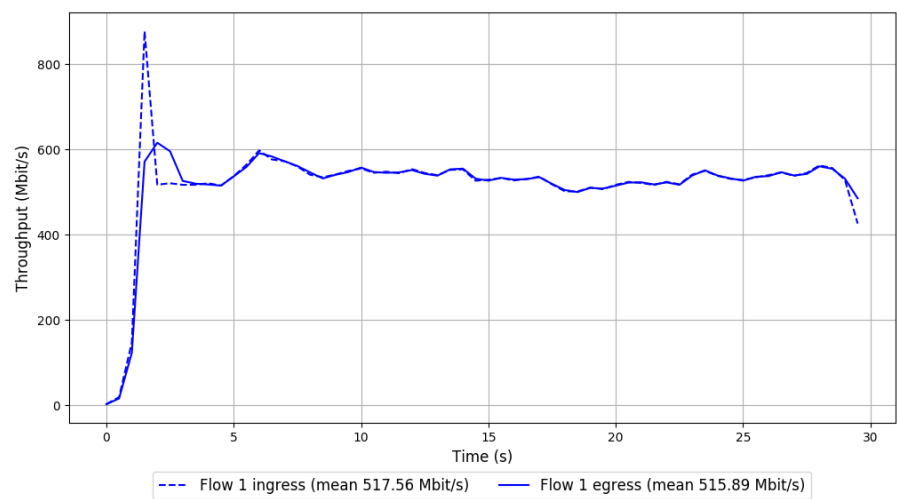
-- Flow 1:

Average throughput: 515.89 Mbit/s

95th percentile per-packet one-way delay: 61.663 ms

Loss rate: 0.31%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-02-27 17:33:10

End at: 2018-02-27 17:33:40

Below is generated by plot.py at 2018-02-27 21:25:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 513.27 Mbit/s

95th percentile per-packet one-way delay: 93.719 ms

Loss rate: 0.39%

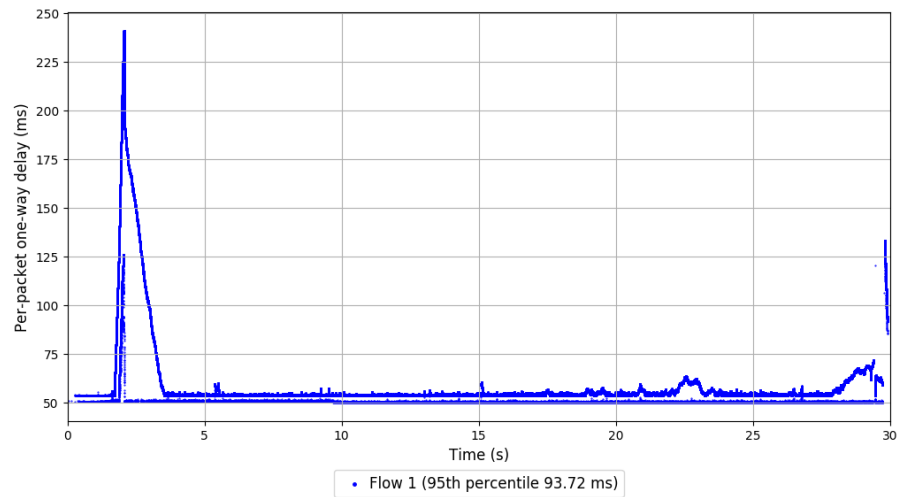
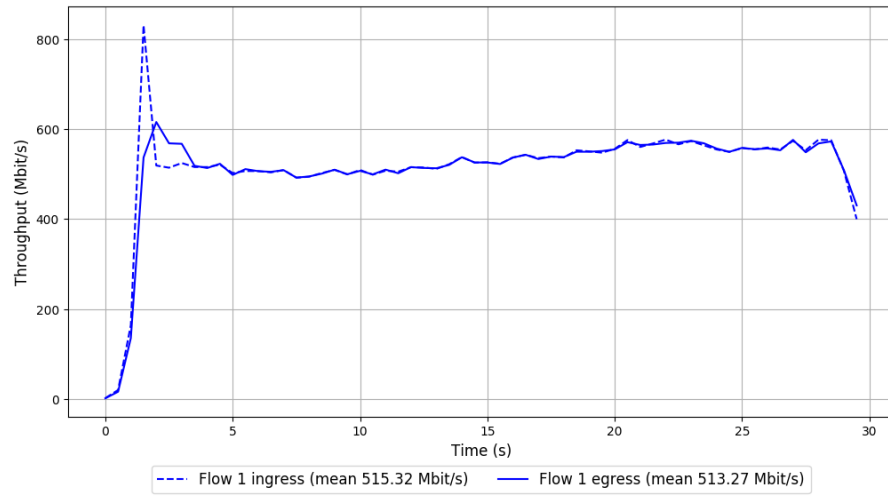
-- Flow 1:

Average throughput: 513.27 Mbit/s

95th percentile per-packet one-way delay: 93.719 ms

Loss rate: 0.39%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-02-27 17:47:37

End at: 2018-02-27 17:48:07

Below is generated by plot.py at 2018-02-27 21:25:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 527.03 Mbit/s

95th percentile per-packet one-way delay: 107.654 ms

Loss rate: 0.28%

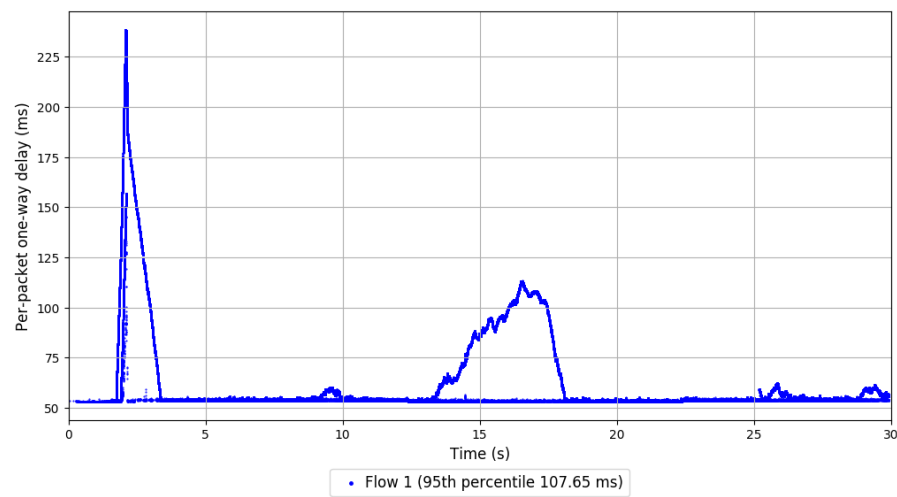
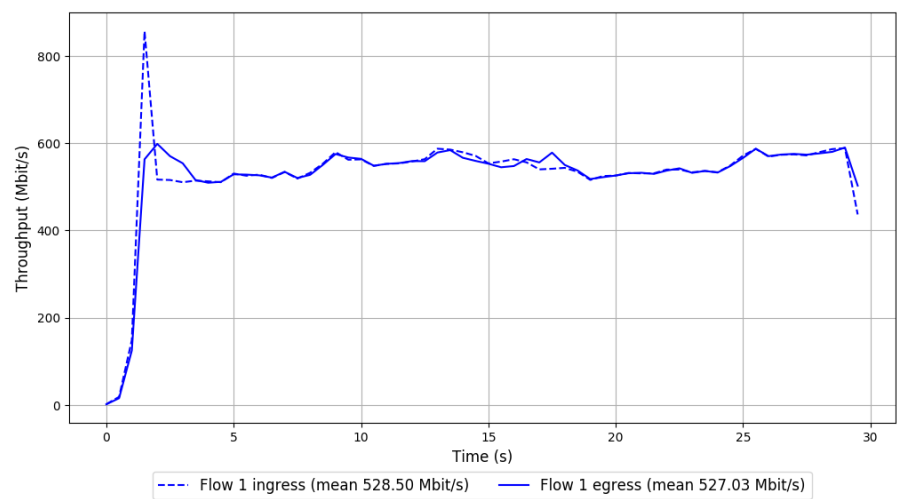
-- Flow 1:

Average throughput: 527.03 Mbit/s

95th percentile per-packet one-way delay: 107.654 ms

Loss rate: 0.28%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-02-27 18:02:19

End at: 2018-02-27 18:02:49

Below is generated by plot.py at 2018-02-27 21:25:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 520.28 Mbit/s

95th percentile per-packet one-way delay: 68.457 ms

Loss rate: 0.30%

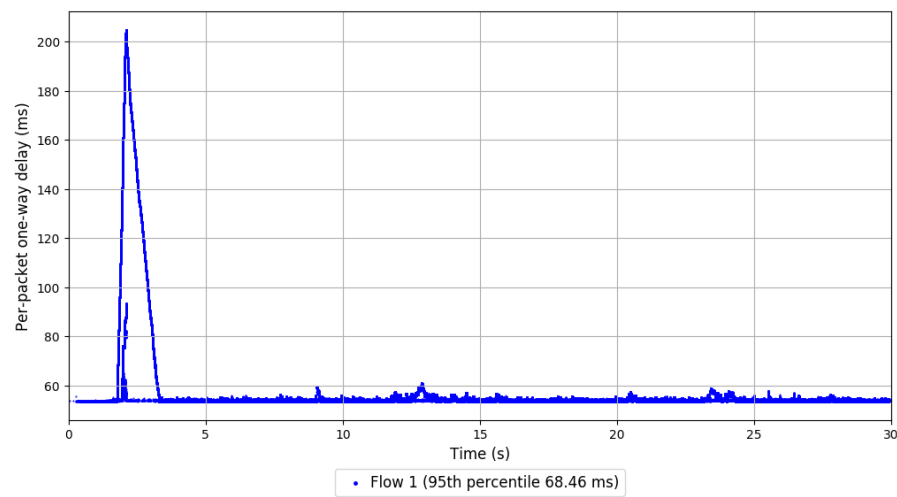
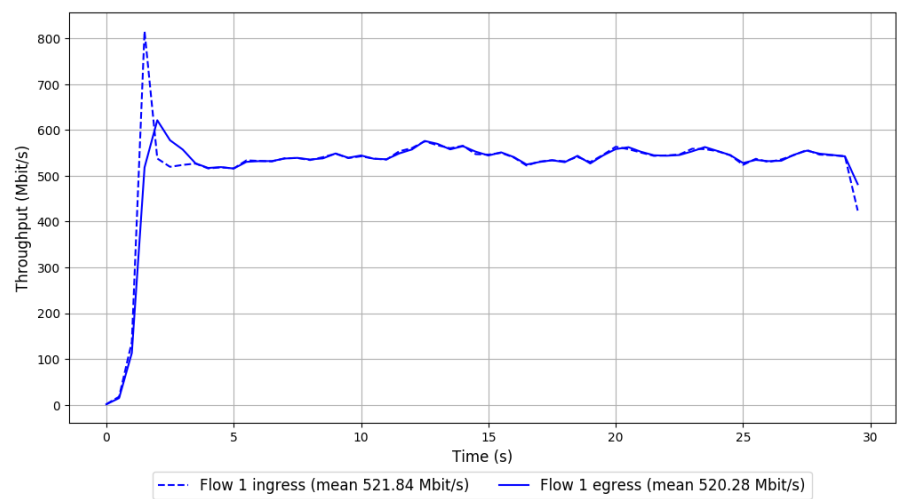
-- Flow 1:

Average throughput: 520.28 Mbit/s

95th percentile per-packet one-way delay: 68.457 ms

Loss rate: 0.30%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-02-27 18:16:47

End at: 2018-02-27 18:17:17

Below is generated by plot.py at 2018-02-27 21:25:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 515.15 Mbit/s

95th percentile per-packet one-way delay: 147.954 ms

Loss rate: 0.55%

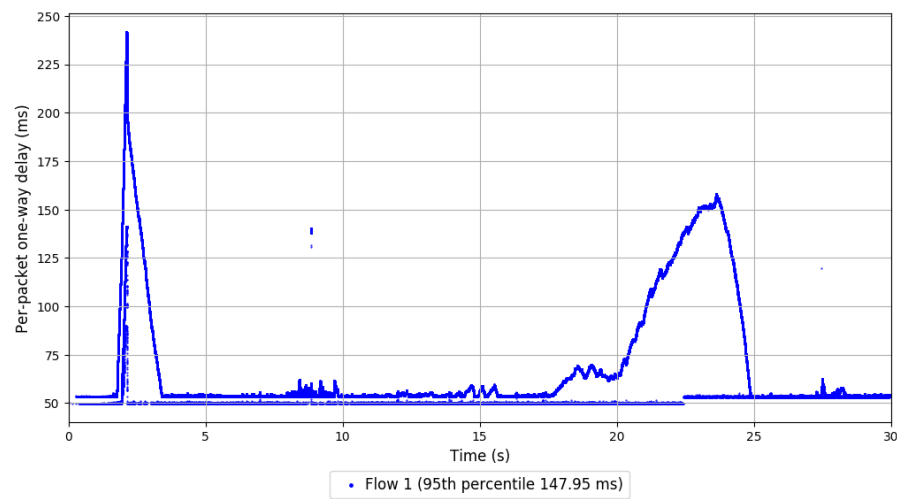
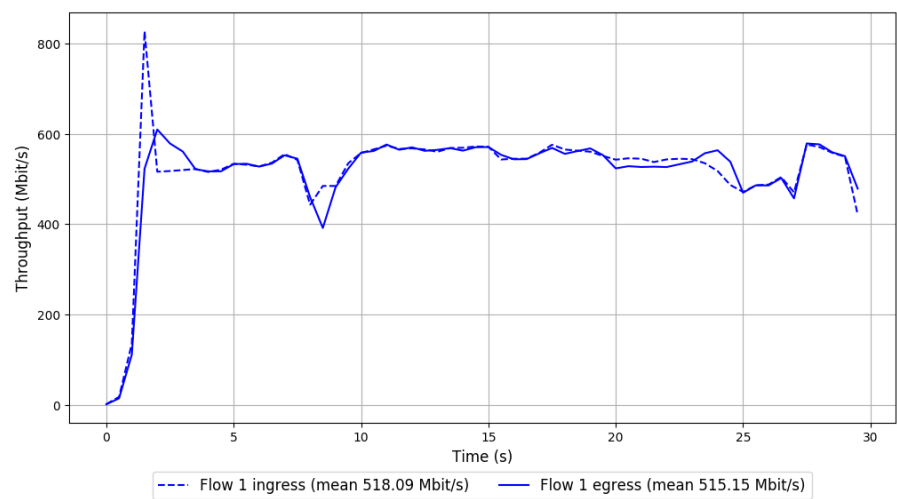
-- Flow 1:

Average throughput: 515.15 Mbit/s

95th percentile per-packet one-way delay: 147.954 ms

Loss rate: 0.55%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-02-27 18:31:24

End at: 2018-02-27 18:31:54

Below is generated by plot.py at 2018-02-27 21:25:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 524.60 Mbit/s

95th percentile per-packet one-way delay: 78.816 ms

Loss rate: 0.27%

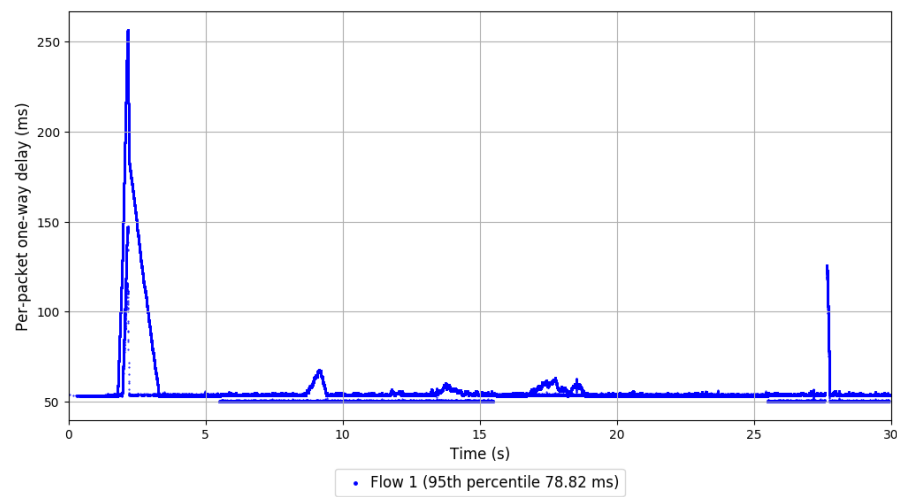
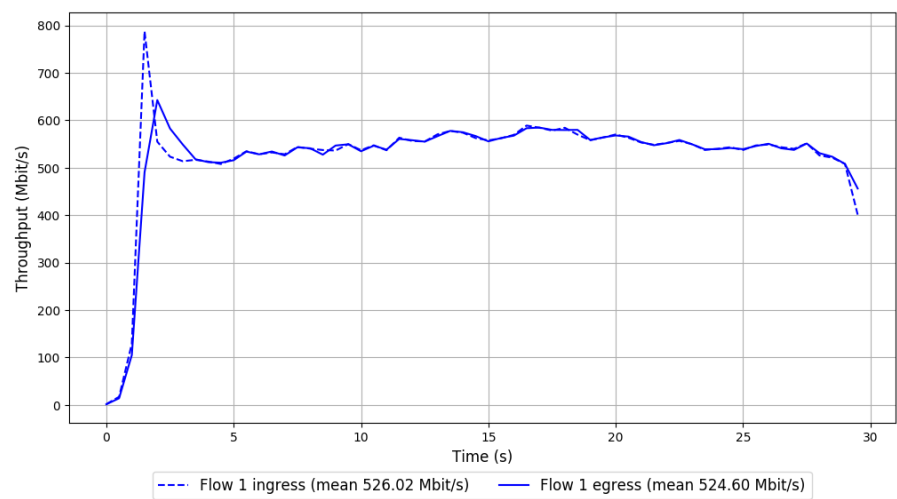
-- Flow 1:

Average throughput: 524.60 Mbit/s

95th percentile per-packet one-way delay: 78.816 ms

Loss rate: 0.27%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-02-27 18:46:27

End at: 2018-02-27 18:46:57

Below is generated by plot.py at 2018-02-27 21:25:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 508.72 Mbit/s

95th percentile per-packet one-way delay: 121.956 ms

Loss rate: 0.27%

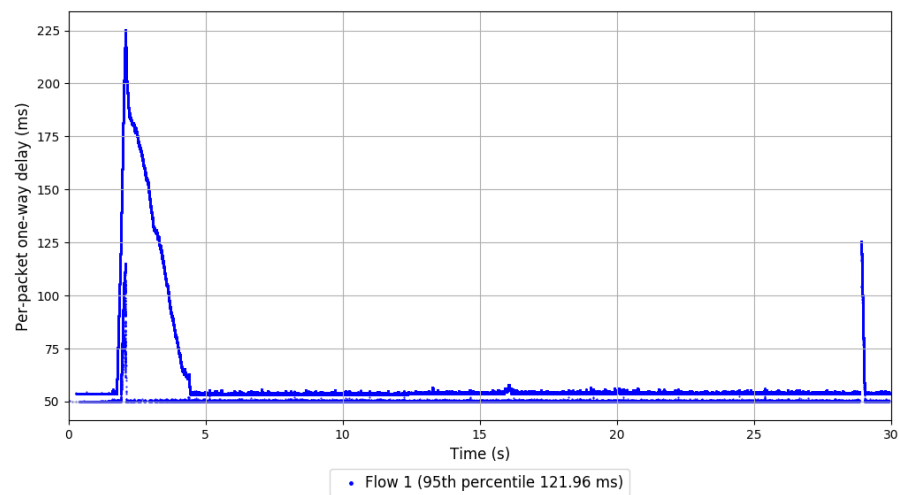
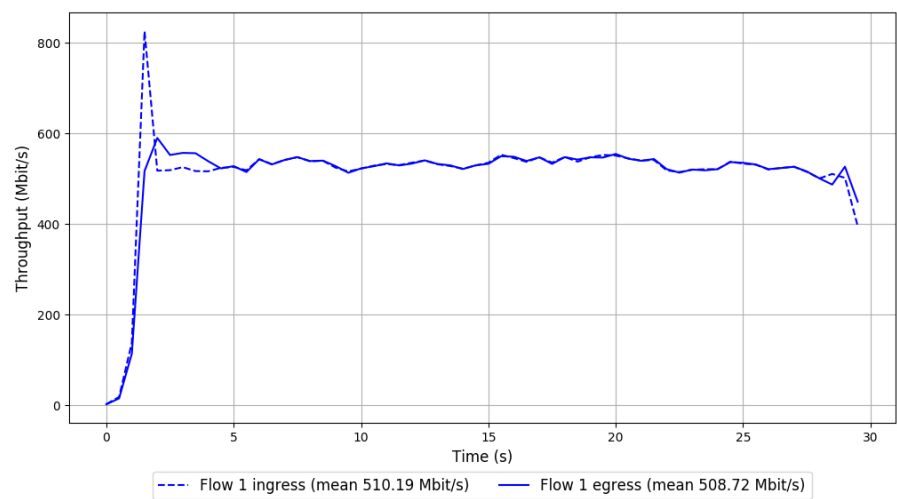
-- Flow 1:

Average throughput: 508.72 Mbit/s

95th percentile per-packet one-way delay: 121.956 ms

Loss rate: 0.27%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2018-02-27 19:01:03

End at: 2018-02-27 19:01:33

Below is generated by plot.py at 2018-02-27 21:34:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 516.06 Mbit/s

95th percentile per-packet one-way delay: 177.925 ms

Loss rate: 0.72%

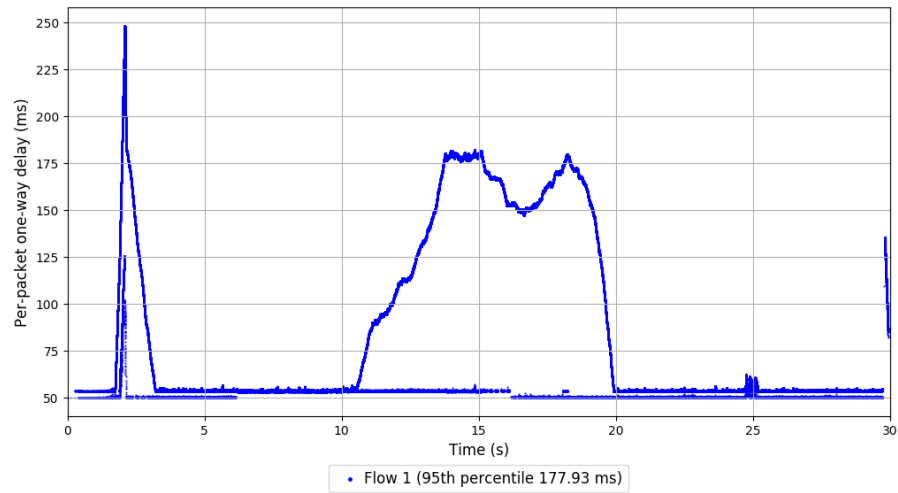
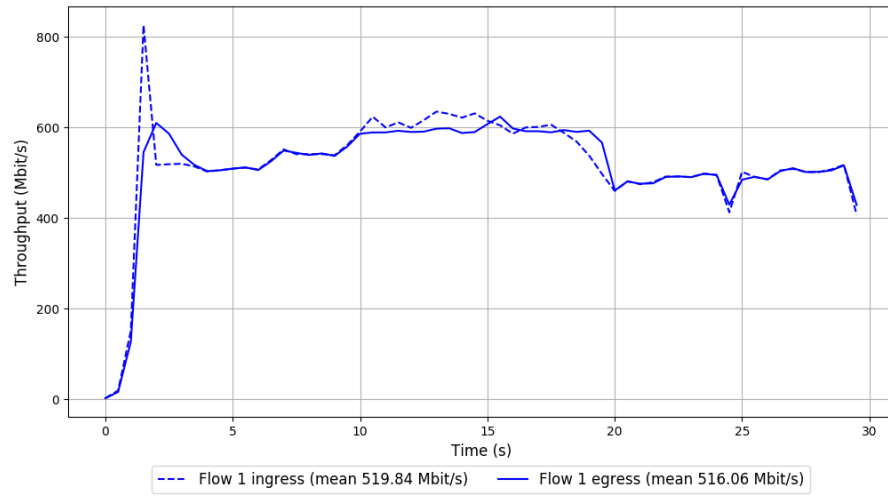
-- Flow 1:

Average throughput: 516.06 Mbit/s

95th percentile per-packet one-way delay: 177.925 ms

Loss rate: 0.72%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2018-02-27 19:15:38

End at: 2018-02-27 19:16:08

Below is generated by plot.py at 2018-02-27 21:34:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 527.43 Mbit/s

95th percentile per-packet one-way delay: 78.503 ms

Loss rate: 0.34%

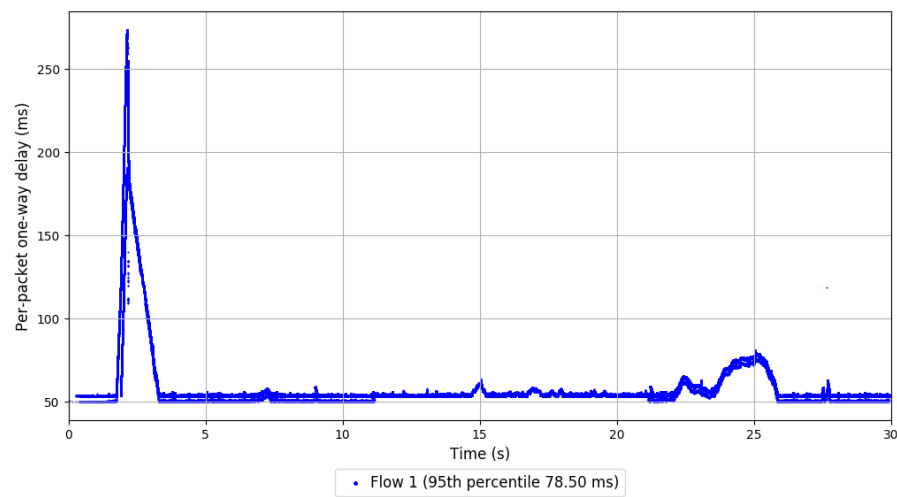
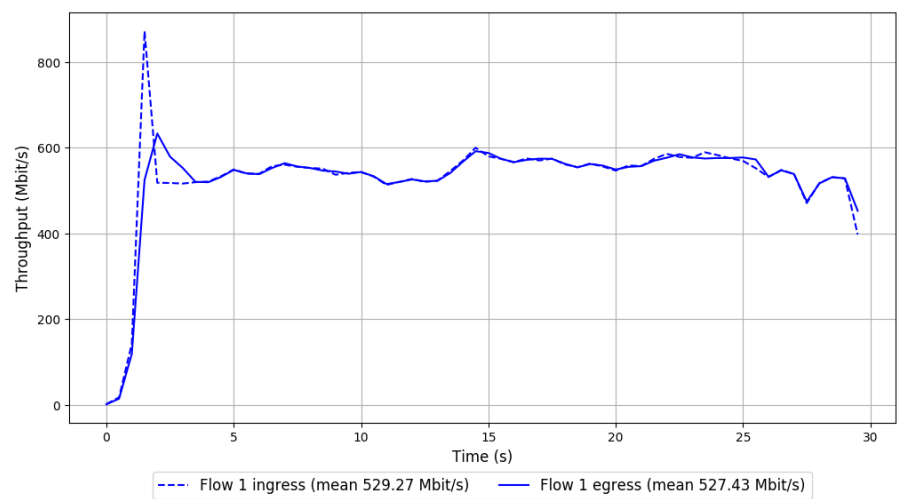
-- Flow 1:

Average throughput: 527.43 Mbit/s

95th percentile per-packet one-way delay: 78.503 ms

Loss rate: 0.34%

Run 10: Report of PCC — Data Link

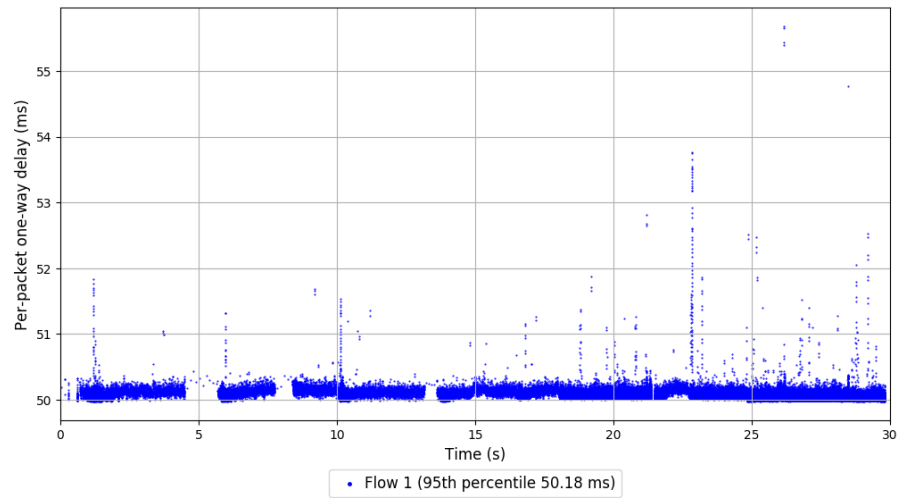
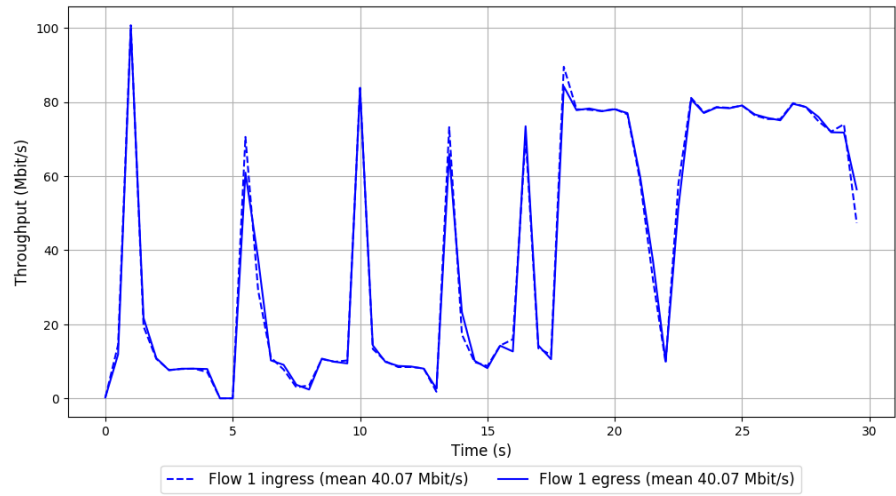


```
Run 1: Statistics of QUIC Cubic

Start at: 2018-02-27 17:09:34
End at: 2018-02-27 17:10:04

# Below is generated by plot.py at 2018-02-27 21:34:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 40.07 Mbit/s
95th percentile per-packet one-way delay: 50.176 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 40.07 Mbit/s
95th percentile per-packet one-way delay: 50.176 ms
Loss rate: 0.00%
```


Run 1: Report of QUIC Cubic — Data Link

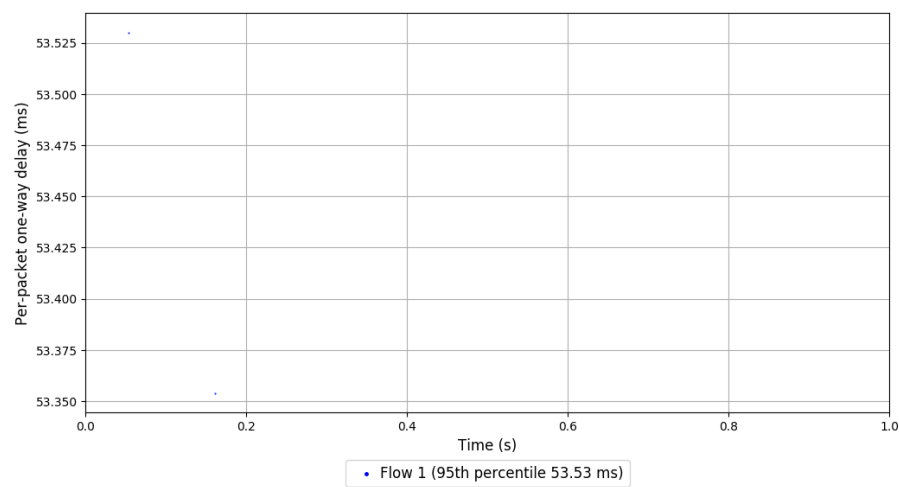
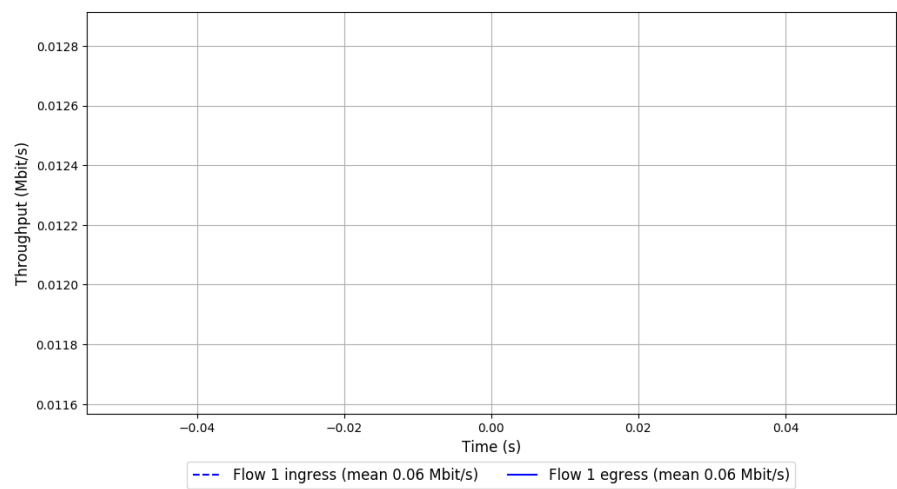


Run 2: Statistics of QUIC Cubic

Start at: 2018-02-27 17:24:15

End at: 2018-02-27 17:24:45

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-02-27 17:39:00

End at: 2018-02-27 17:39:30

Below is generated by plot.py at 2018-02-27 21:34:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.24 Mbit/s

95th percentile per-packet one-way delay: 53.339 ms

Loss rate: 0.00%

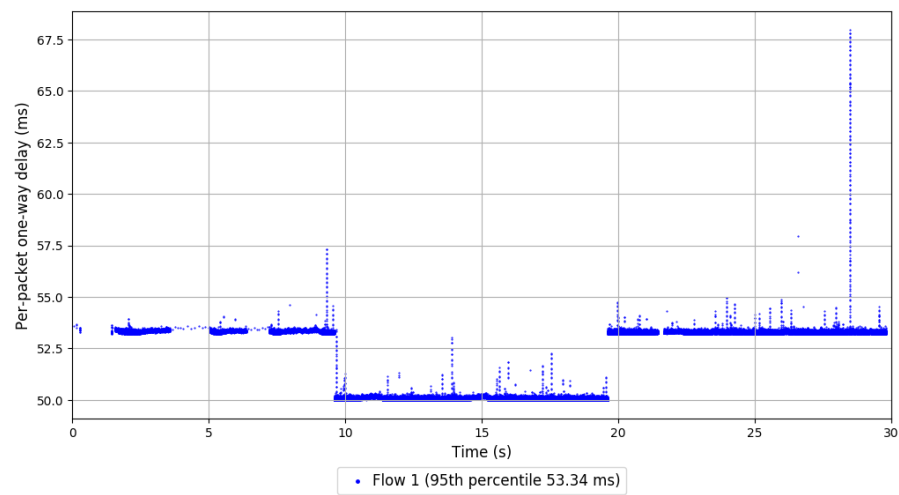
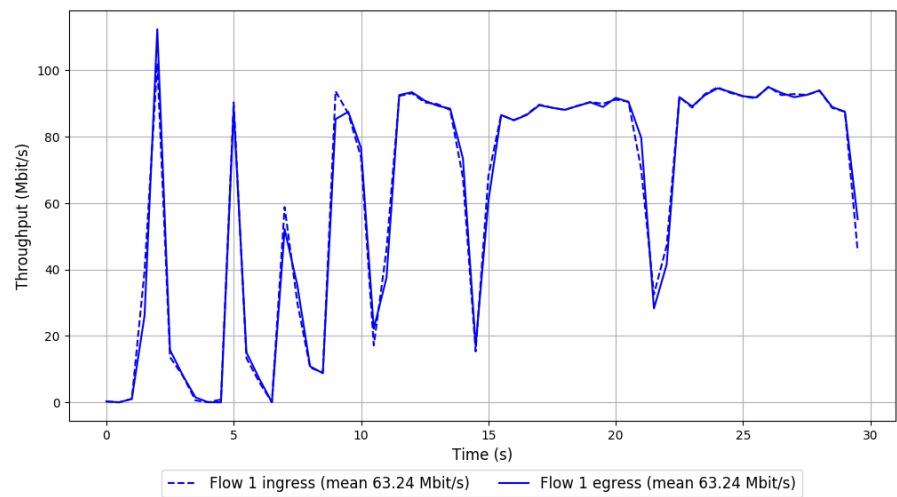
-- Flow 1:

Average throughput: 63.24 Mbit/s

95th percentile per-packet one-way delay: 53.339 ms

Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-02-27 17:53:41

End at: 2018-02-27 17:54:11

Below is generated by plot.py at 2018-02-27 21:34:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.09 Mbit/s

95th percentile per-packet one-way delay: 53.125 ms

Loss rate: 0.00%

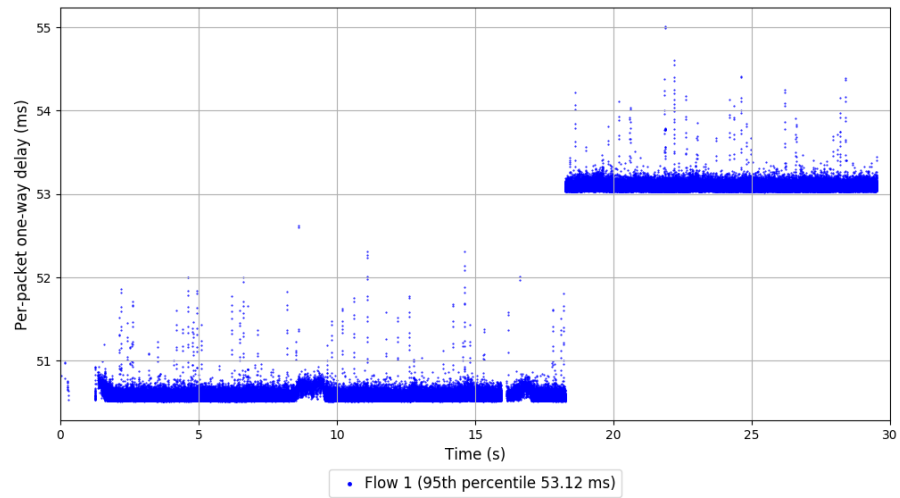
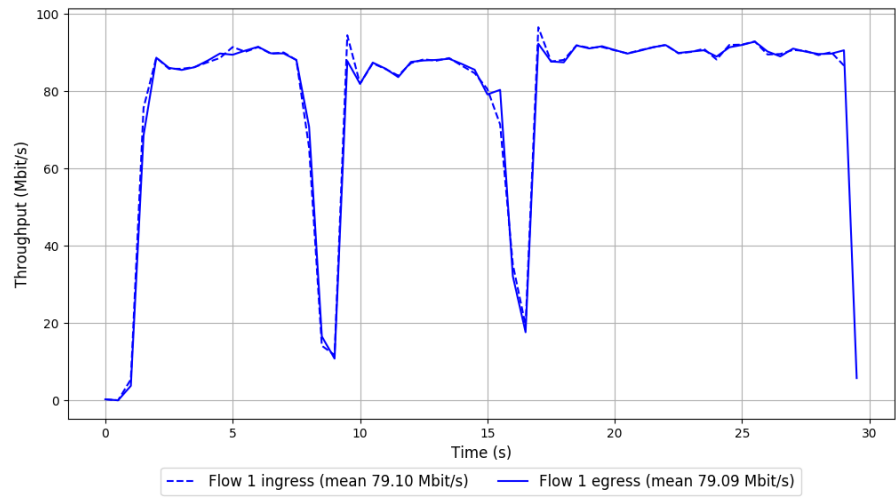
-- Flow 1:

Average throughput: 79.09 Mbit/s

95th percentile per-packet one-way delay: 53.125 ms

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-02-27 18:08:11

End at: 2018-02-27 18:08:41

Below is generated by plot.py at 2018-02-27 21:34:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 53.37 Mbit/s

95th percentile per-packet one-way delay: 53.135 ms

Loss rate: 0.00%

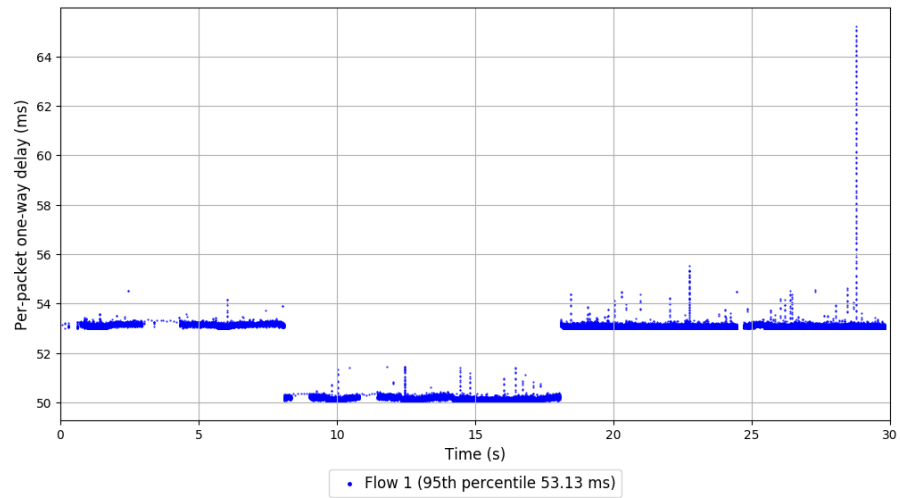
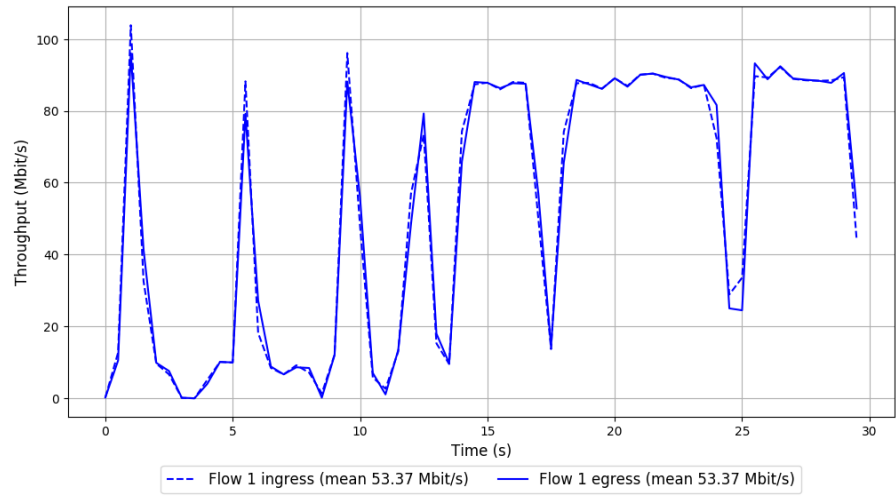
-- Flow 1:

Average throughput: 53.37 Mbit/s

95th percentile per-packet one-way delay: 53.135 ms

Loss rate: 0.00%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-02-27 18:22:37

End at: 2018-02-27 18:23:07

Below is generated by plot.py at 2018-02-27 21:34:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 62.63 Mbit/s

95th percentile per-packet one-way delay: 53.488 ms

Loss rate: 0.00%

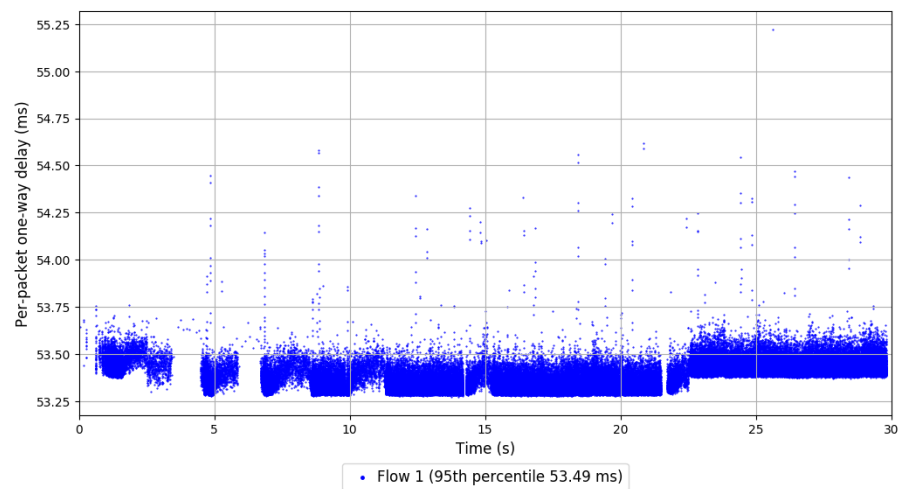
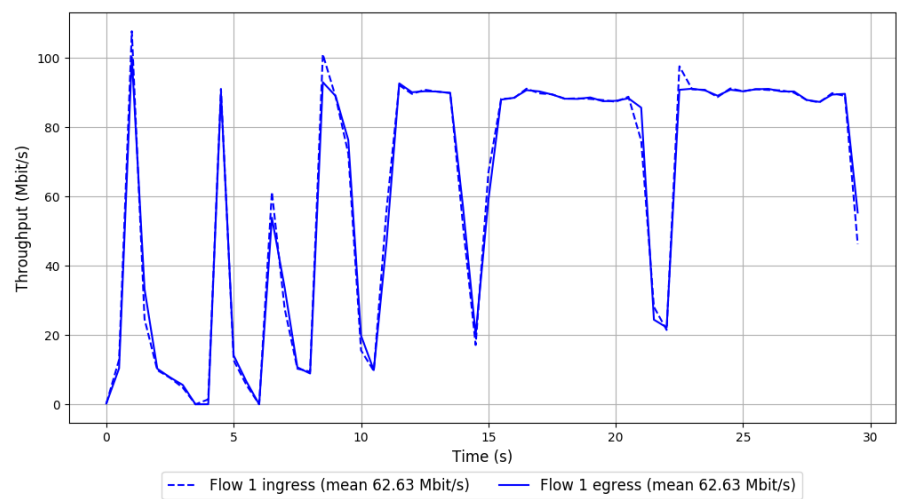
-- Flow 1:

Average throughput: 62.63 Mbit/s

95th percentile per-packet one-way delay: 53.488 ms

Loss rate: 0.00%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-02-27 18:37:26

End at: 2018-02-27 18:37:56

Below is generated by plot.py at 2018-02-27 21:34:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 60.88 Mbit/s

95th percentile per-packet one-way delay: 53.208 ms

Loss rate: 0.00%

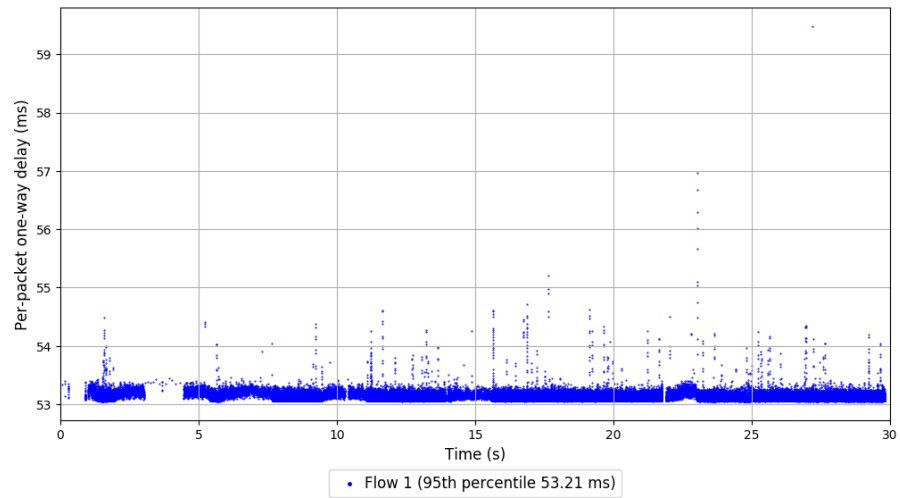
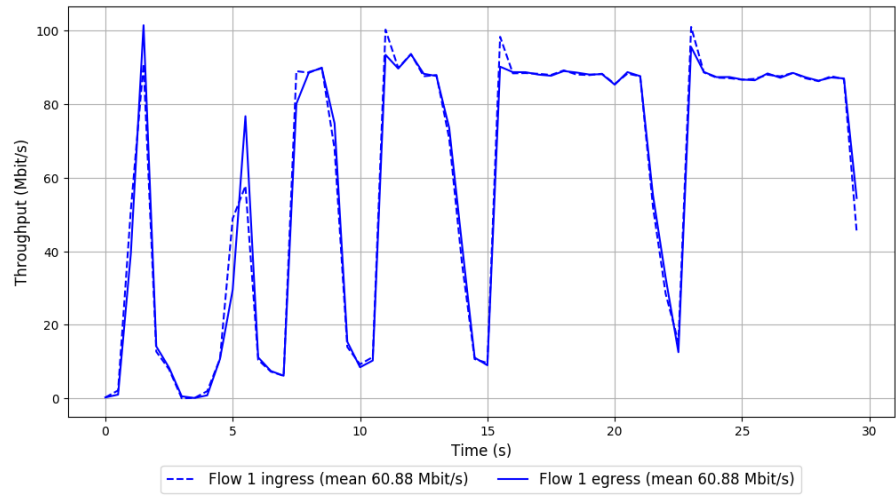
-- Flow 1:

Average throughput: 60.88 Mbit/s

95th percentile per-packet one-way delay: 53.208 ms

Loss rate: 0.00%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-02-27 18:52:13

End at: 2018-02-27 18:52:43

Below is generated by plot.py at 2018-02-27 21:34:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.19 Mbit/s

95th percentile per-packet one-way delay: 53.357 ms

Loss rate: 0.00%

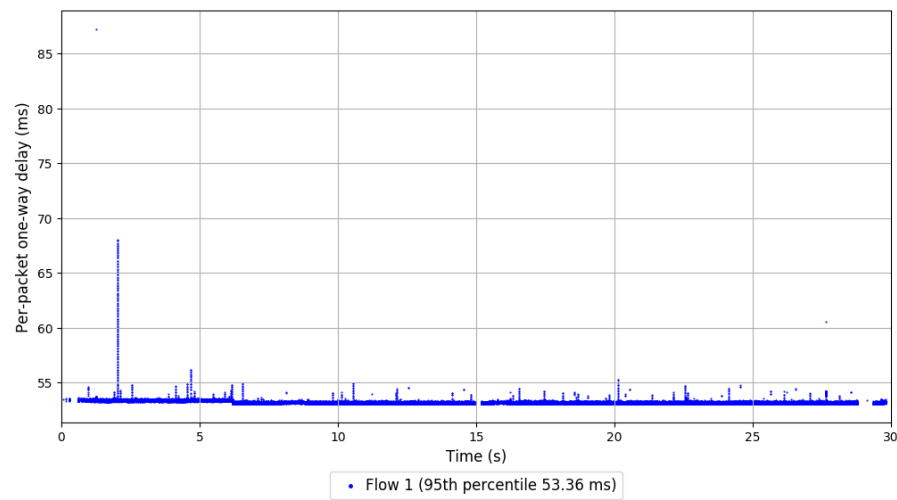
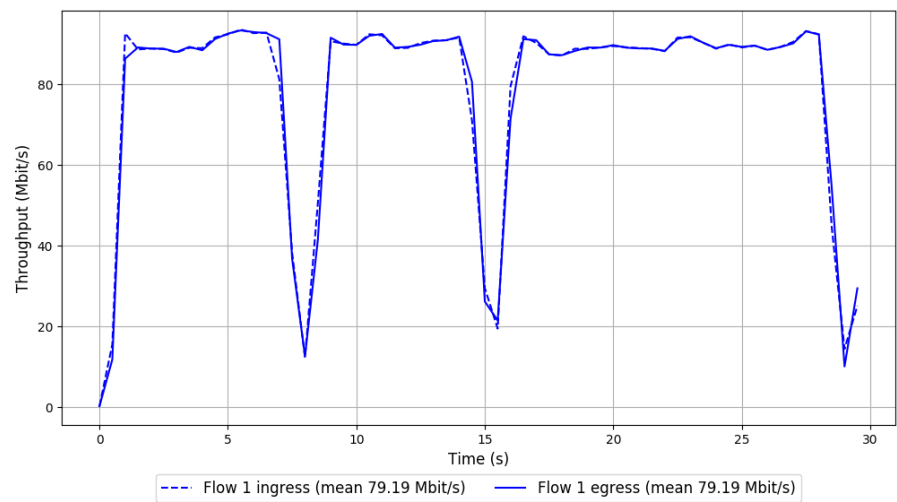
-- Flow 1:

Average throughput: 79.19 Mbit/s

95th percentile per-packet one-way delay: 53.357 ms

Loss rate: 0.00%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-02-27 19:07:05

End at: 2018-02-27 19:07:35

Below is generated by plot.py at 2018-02-27 21:34:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.27 Mbit/s

95th percentile per-packet one-way delay: 50.542 ms

Loss rate: 0.00%

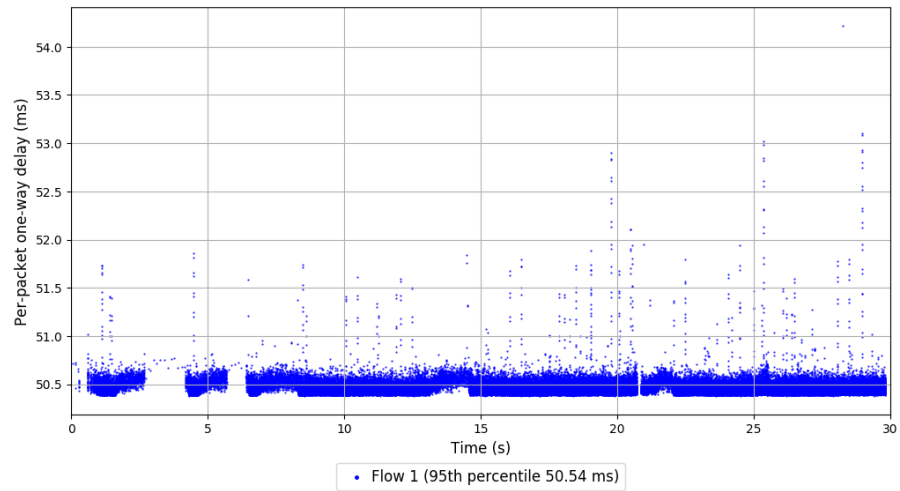
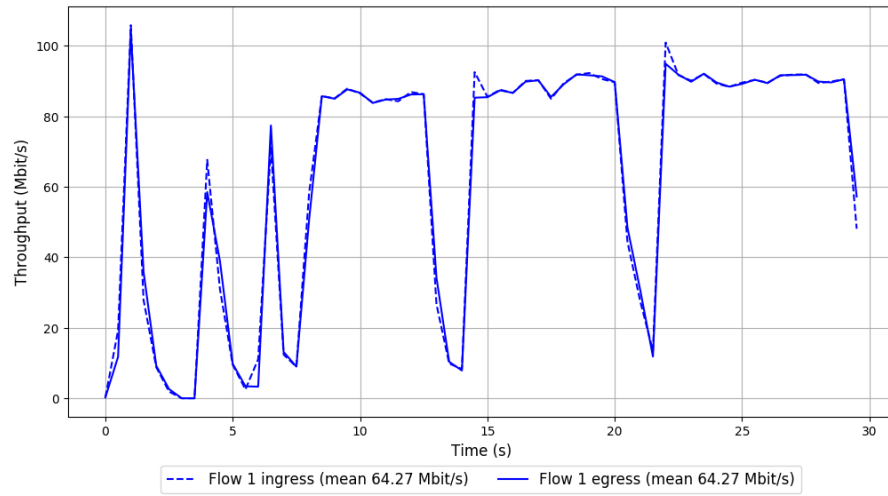
-- Flow 1:

Average throughput: 64.27 Mbit/s

95th percentile per-packet one-way delay: 50.542 ms

Loss rate: 0.00%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-02-27 19:21:44

End at: 2018-02-27 19:22:14

Below is generated by plot.py at 2018-02-27 21:34:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 56.70 Mbit/s

95th percentile per-packet one-way delay: 53.557 ms

Loss rate: 0.00%

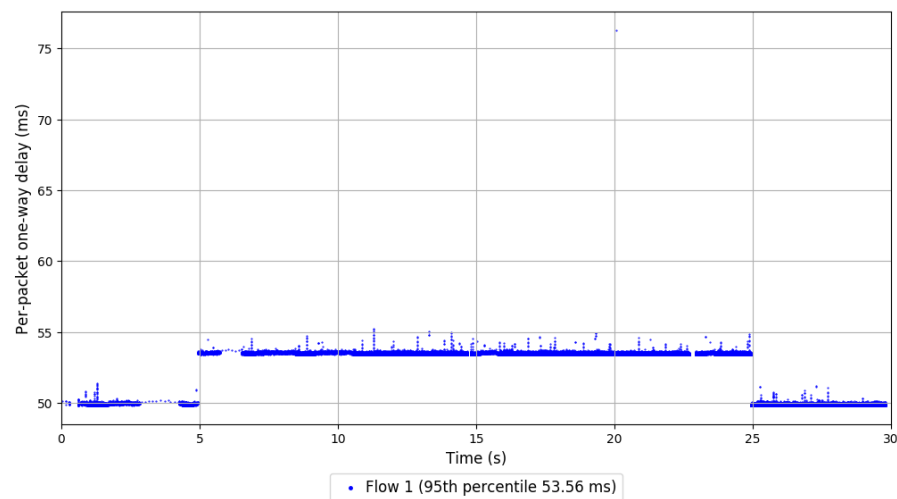
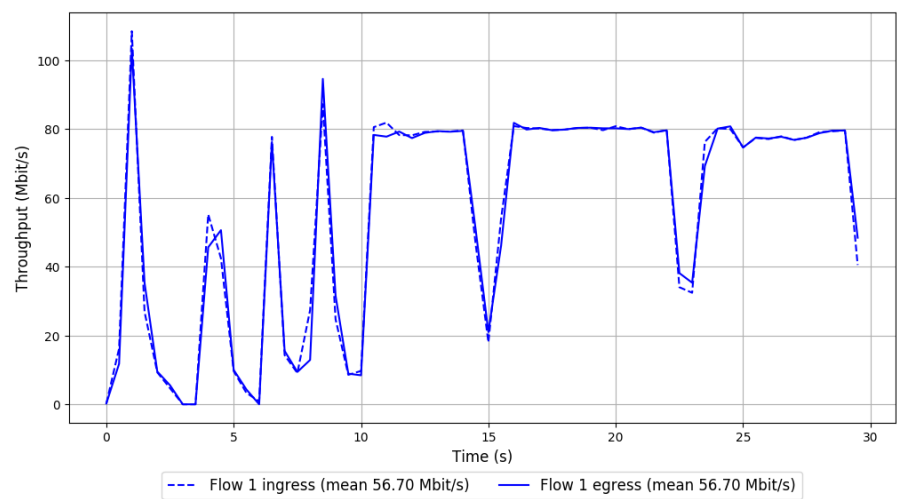
-- Flow 1:

Average throughput: 56.70 Mbit/s

95th percentile per-packet one-way delay: 53.557 ms

Loss rate: 0.00%

Run 10: Report of QUIC Cubic — Data Link

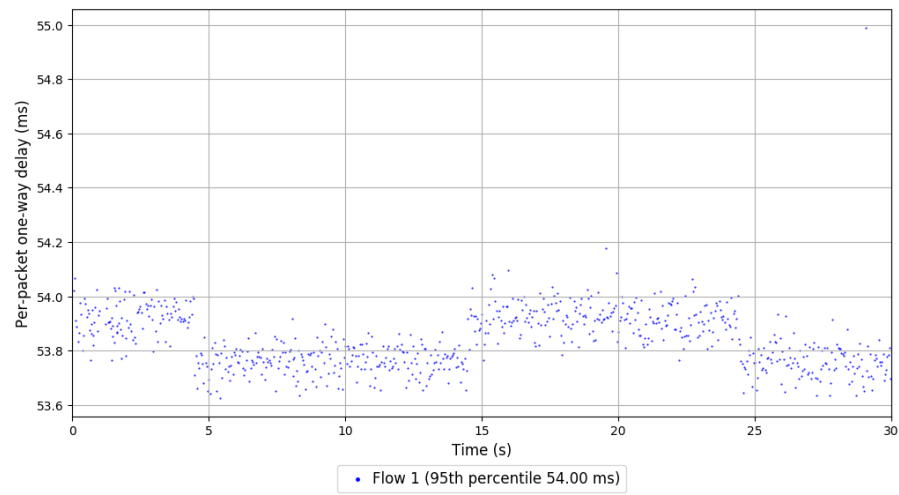
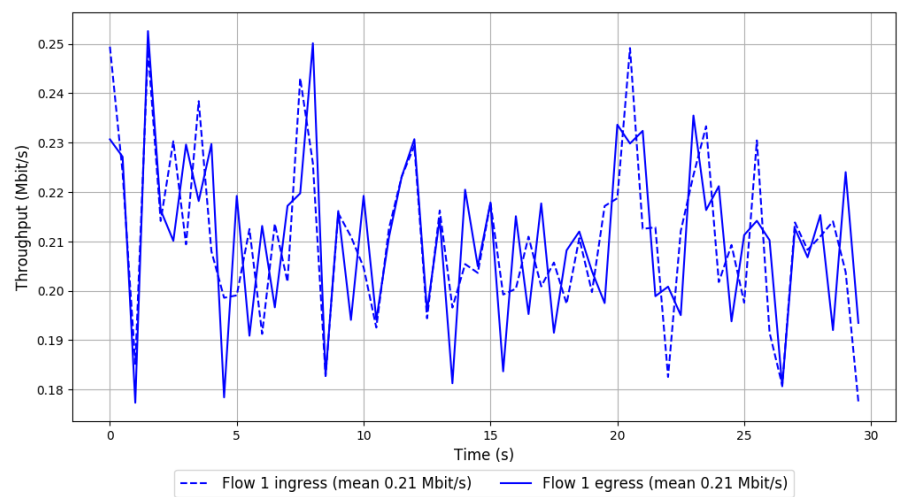


```
Run 1: Statistics of SCReAM

Start at: 2018-02-27 16:58:45
End at: 2018-02-27 16:59:15

# Below is generated by plot.py at 2018-02-27 21:34:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.996 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.996 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

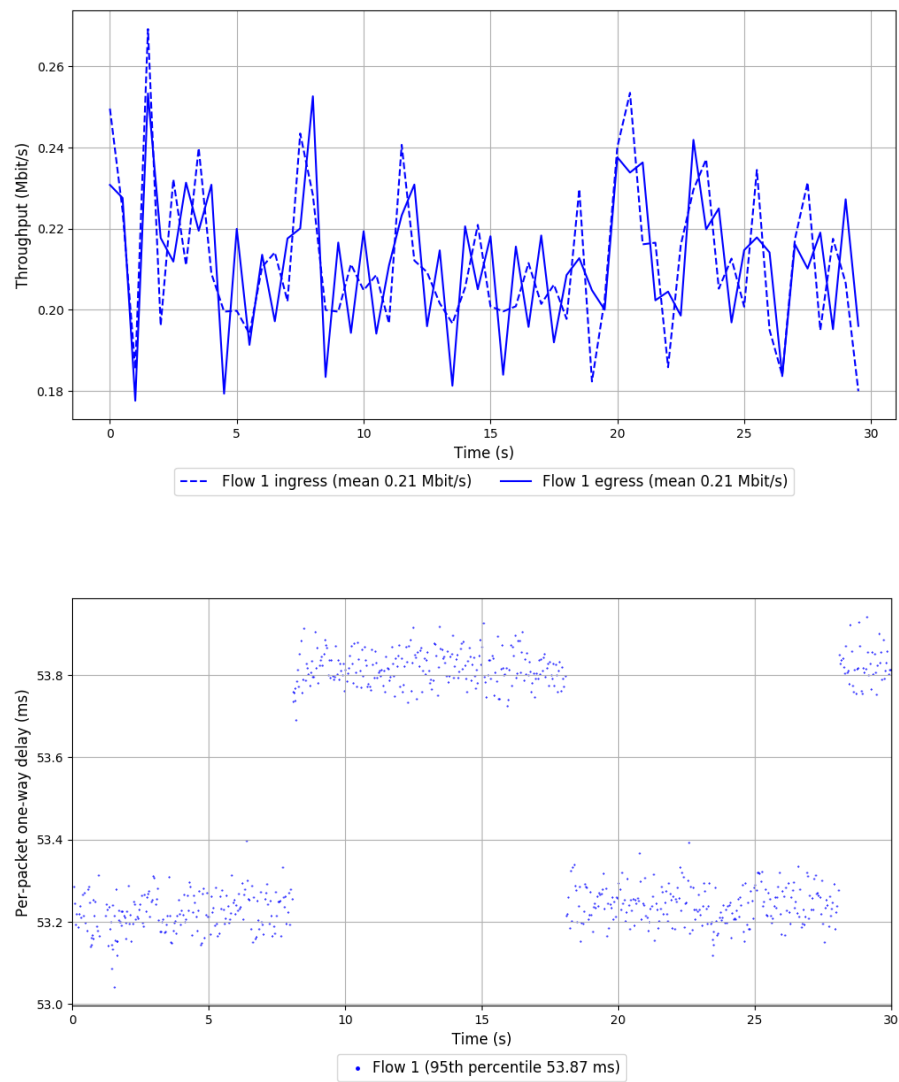


```
Run 2: Statistics of SCReAM

Start at: 2018-02-27 17:13:11
End at: 2018-02-27 17:13:41

# Below is generated by plot.py at 2018-02-27 21:34:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.868 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.868 ms
Loss rate: 0.00%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-02-27 17:27:58

End at: 2018-02-27 17:28:28

Below is generated by plot.py at 2018-02-27 21:34:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.432 ms

Loss rate: 0.00%

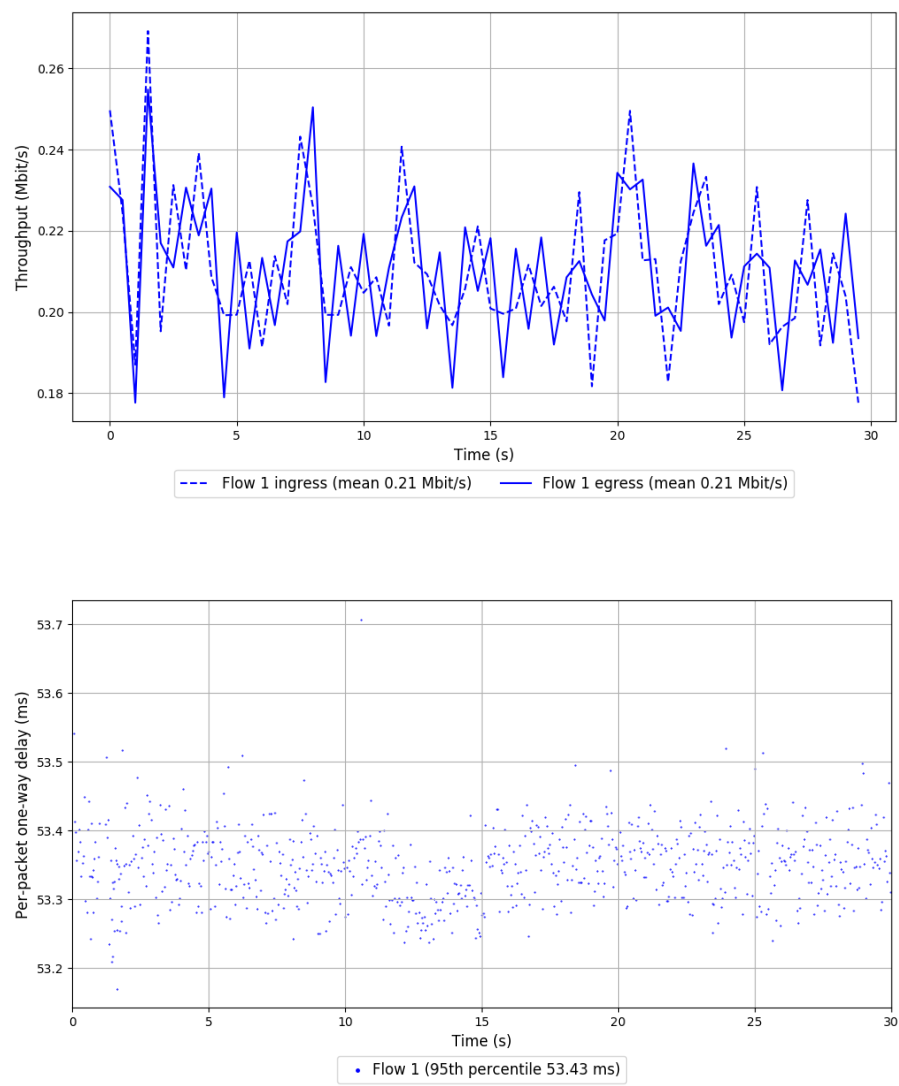
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.432 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2018-02-27 17:42:38

End at: 2018-02-27 17:43:08

Below is generated by plot.py at 2018-02-27 21:34:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 53.686 ms

Loss rate: 0.00%

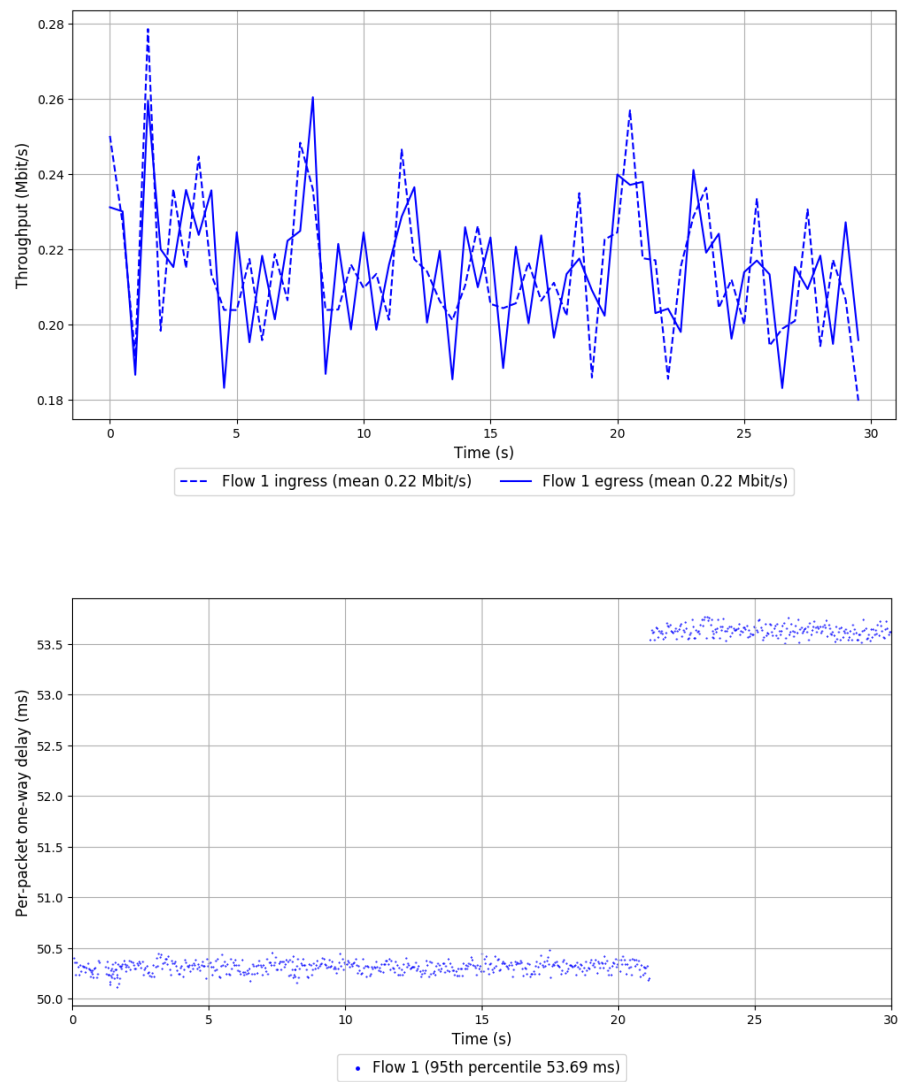
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 53.686 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-02-27 17:57:18

End at: 2018-02-27 17:57:48

Below is generated by plot.py at 2018-02-27 21:34:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.953 ms

Loss rate: 0.00%

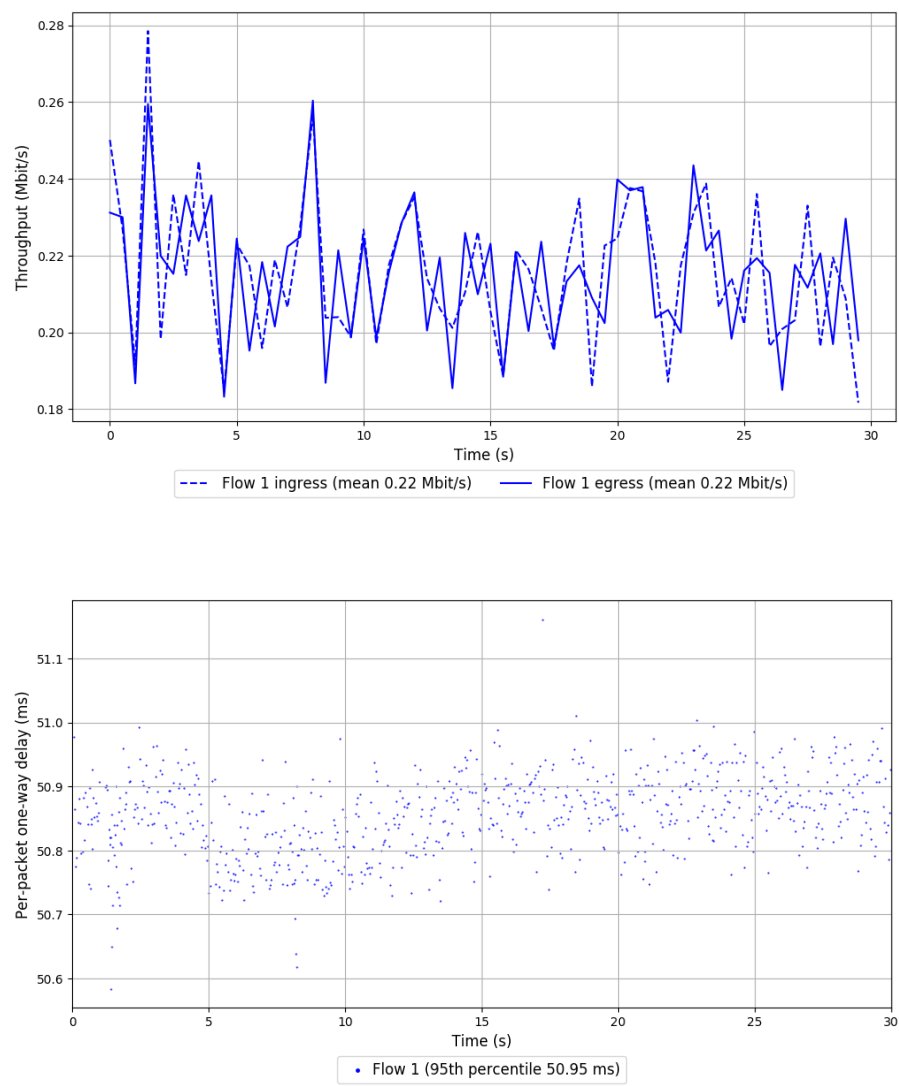
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.953 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-02-27 18:11:48

End at: 2018-02-27 18:12:18

Below is generated by plot.py at 2018-02-27 21:34:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.729 ms

Loss rate: 0.00%

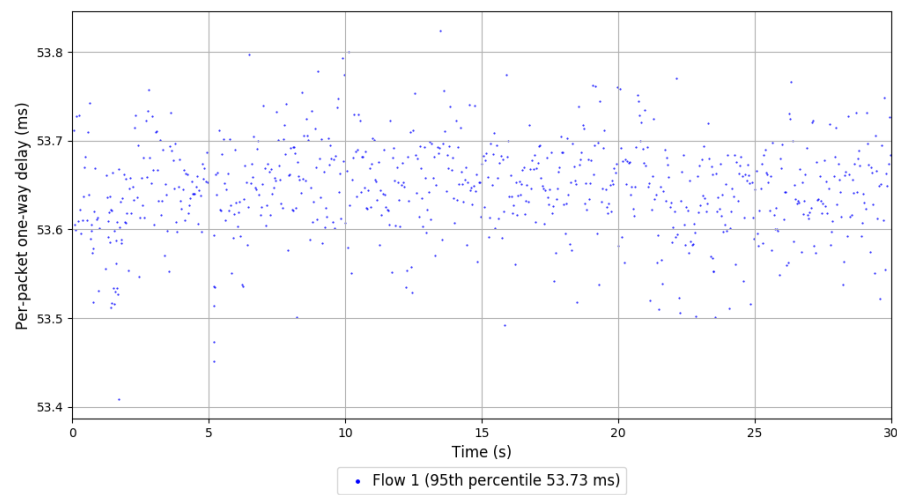
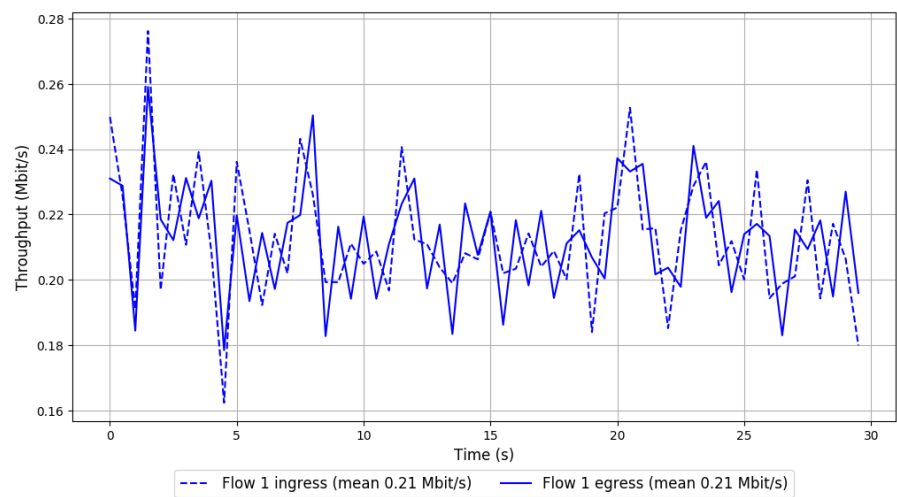
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.729 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2018-02-27 18:26:18

End at: 2018-02-27 18:26:48

Below is generated by plot.py at 2018-02-27 21:34:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.705 ms

Loss rate: 0.00%

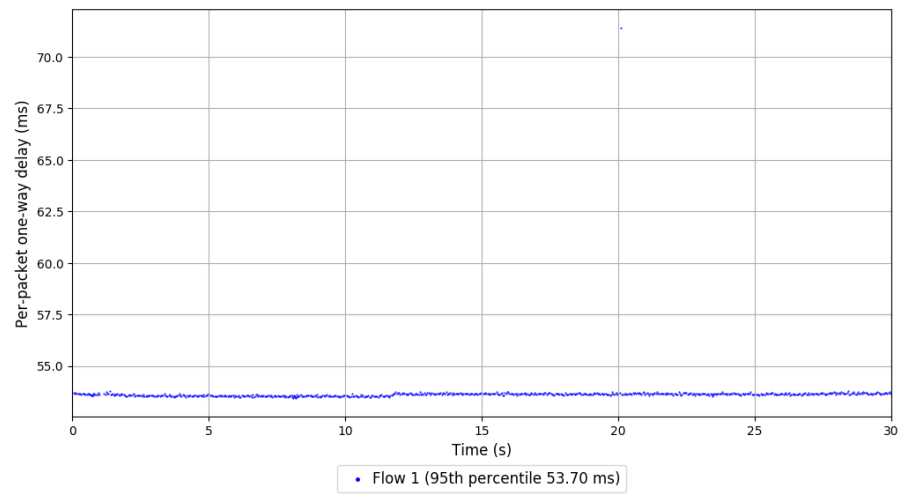
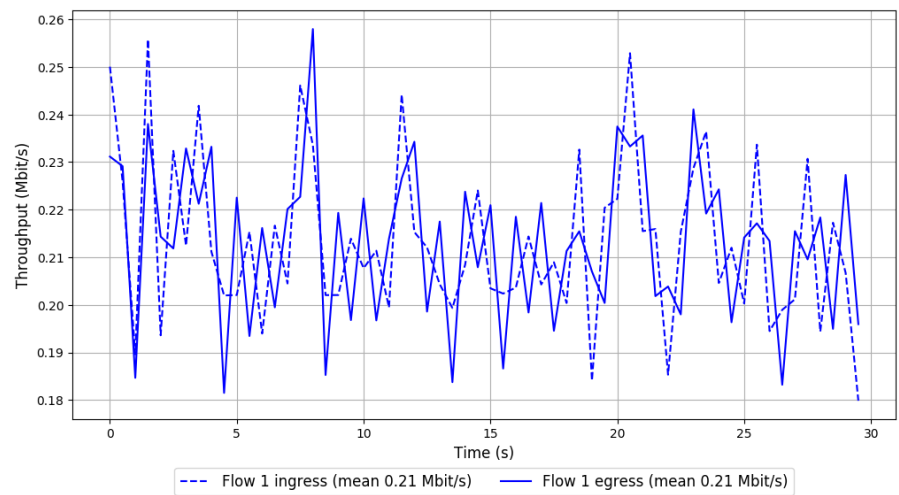
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.705 ms

Loss rate: 0.00%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-02-27 18:41:07

End at: 2018-02-27 18:41:37

Below is generated by plot.py at 2018-02-27 21:34:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.360 ms

Loss rate: 0.00%

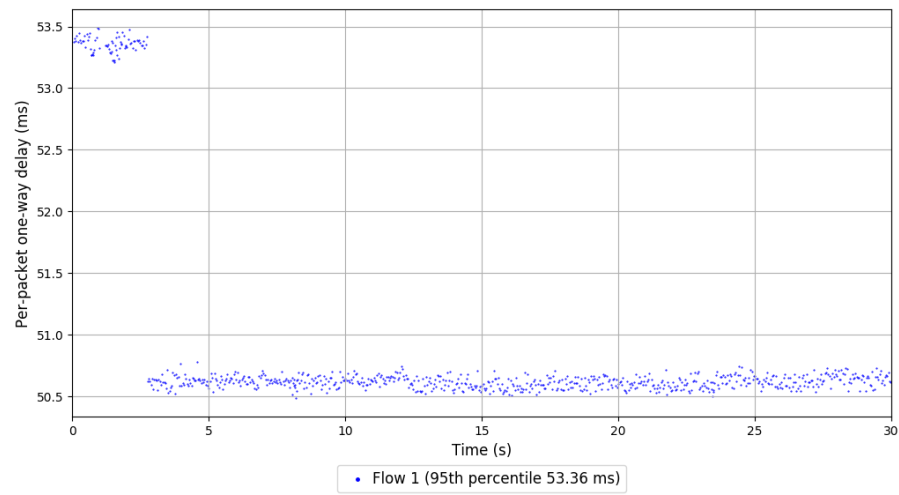
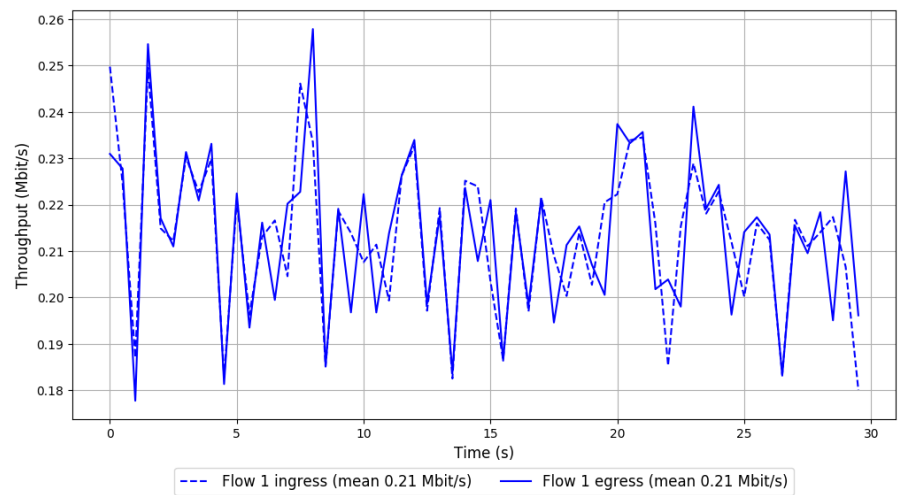
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.360 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-02-27 18:56:02

End at: 2018-02-27 18:56:32

Below is generated by plot.py at 2018-02-27 21:34:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 50.763 ms

Loss rate: 0.00%

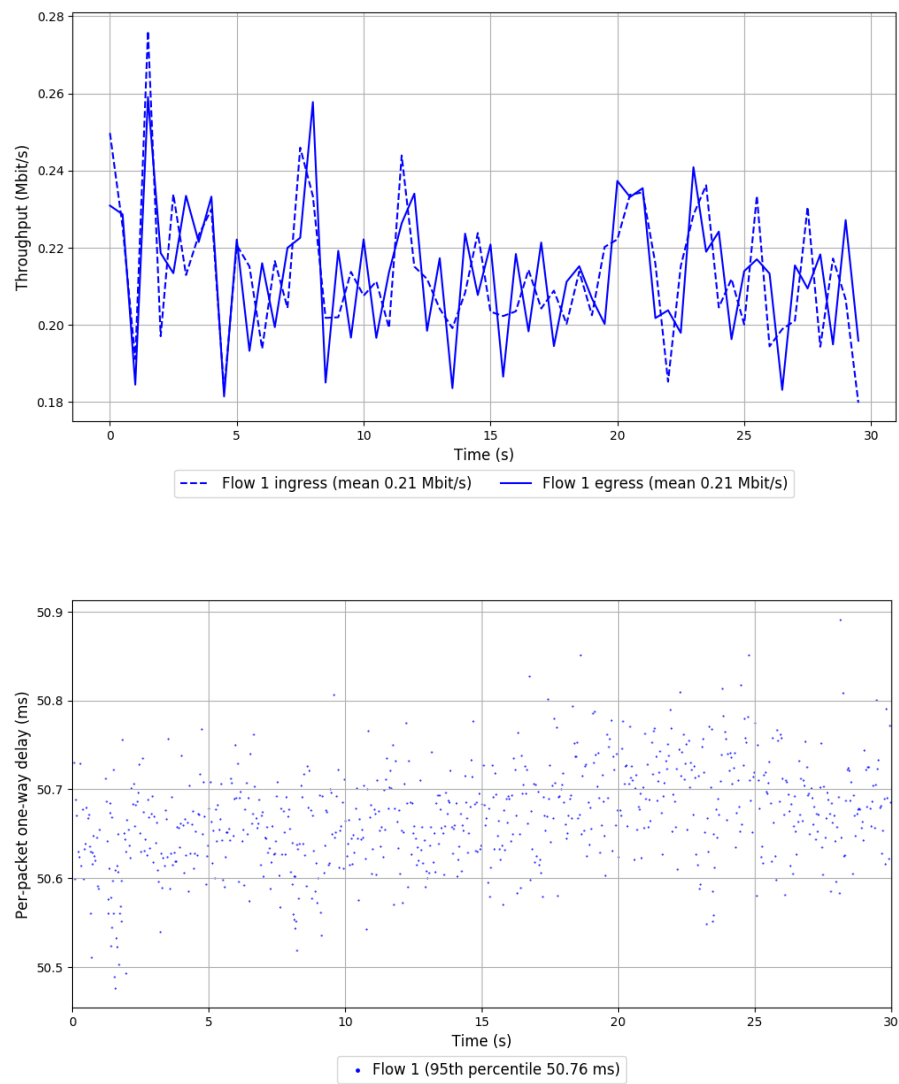
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 50.763 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-02-27 19:10:42

End at: 2018-02-27 19:11:12

Below is generated by plot.py at 2018-02-27 21:34:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 54.039 ms

Loss rate: 0.00%

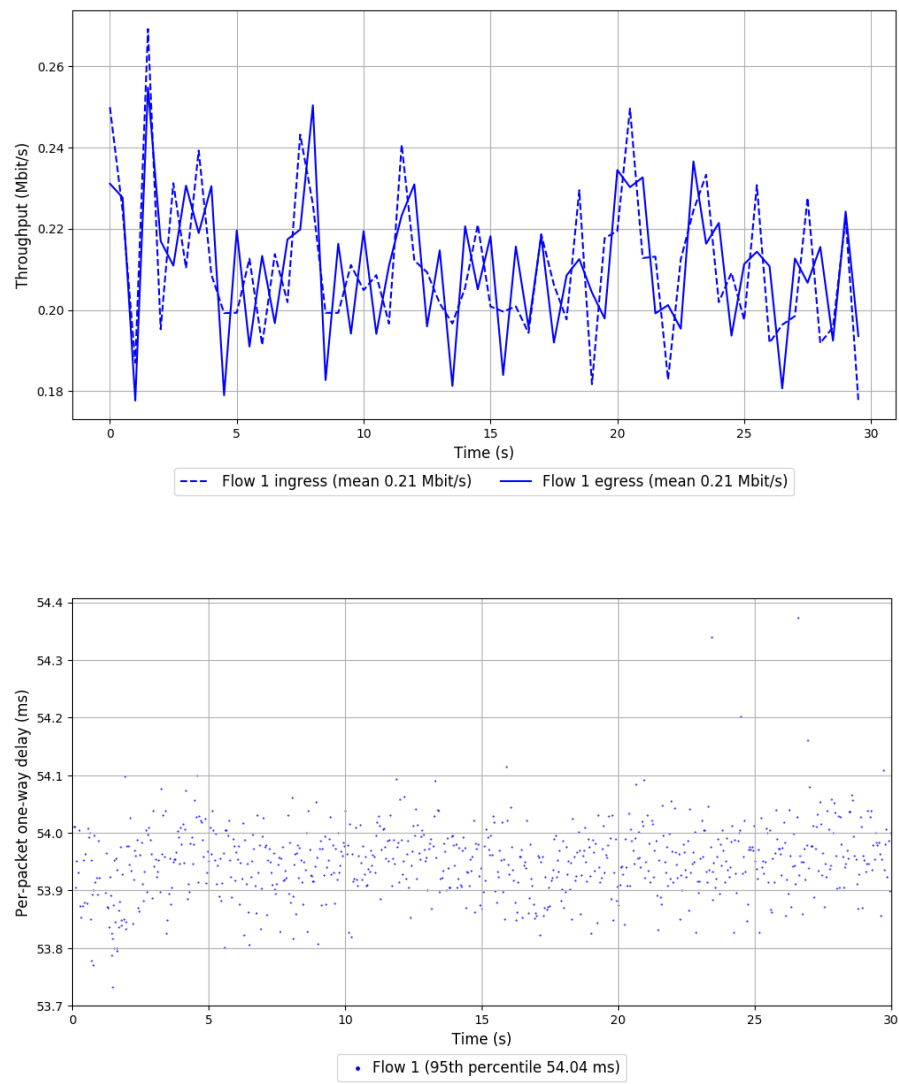
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 54.039 ms

Loss rate: 0.00%

Run 10: Report of SReAM — Data Link

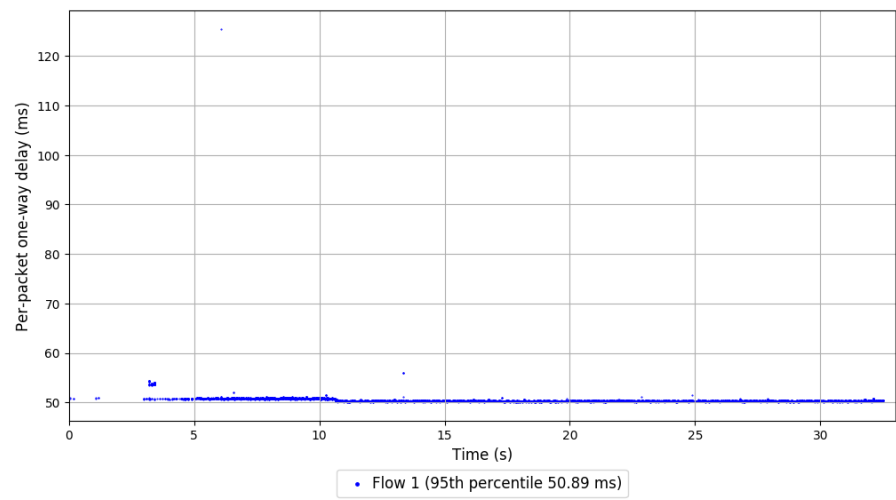
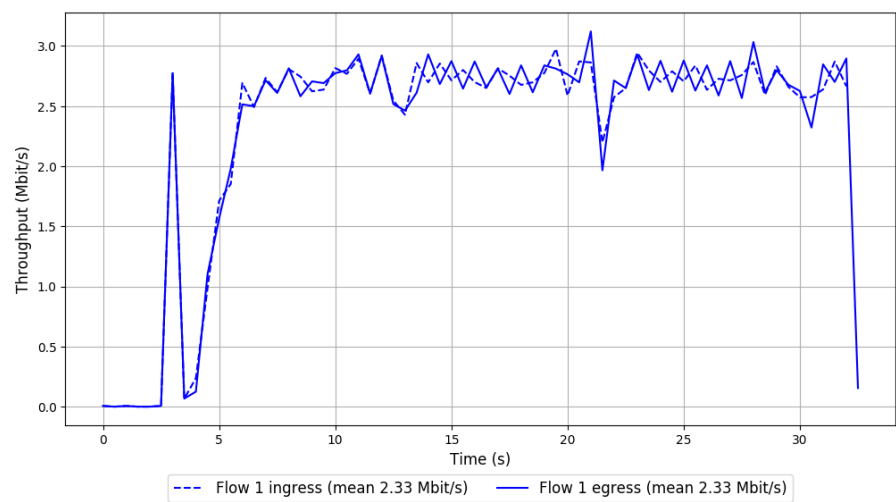


```
Run 1: Statistics of WebRTC media

Start at: 2018-02-27 17:01:31
End at: 2018-02-27 17:02:01

# Below is generated by plot.py at 2018-02-27 21:34:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.33 Mbit/s
95th percentile per-packet one-way delay: 50.892 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.33 Mbit/s
95th percentile per-packet one-way delay: 50.892 ms
Loss rate: 0.00%
```


Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-02-27 17:15:55

End at: 2018-02-27 17:16:25

Below is generated by plot.py at 2018-02-27 21:34:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.31 Mbit/s

95th percentile per-packet one-way delay: 50.205 ms

Loss rate: 0.00%

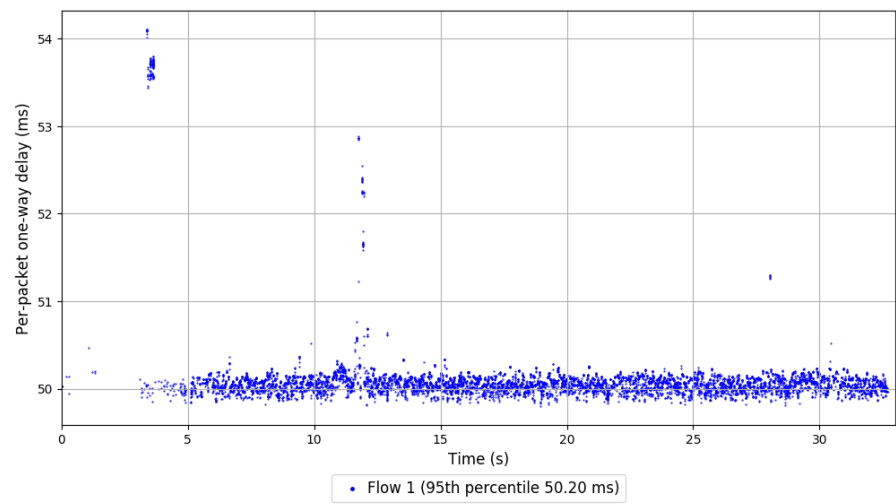
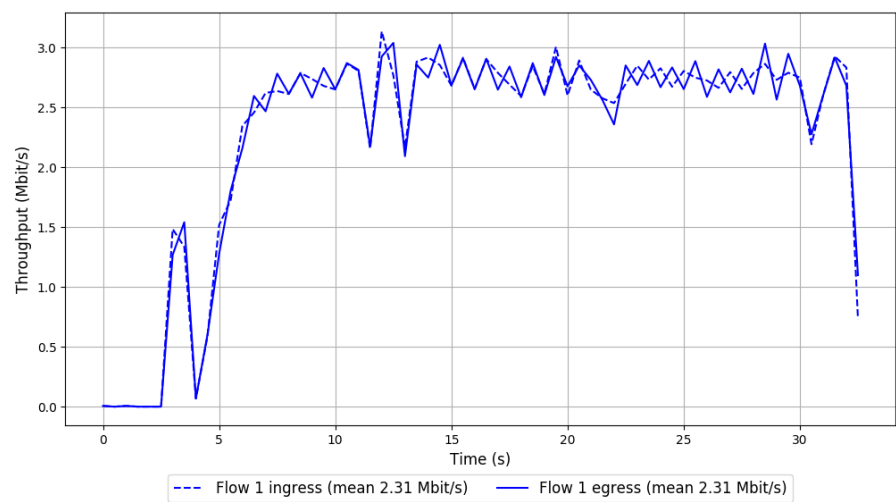
-- Flow 1:

Average throughput: 2.31 Mbit/s

95th percentile per-packet one-way delay: 50.205 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-02-27 17:30:43

End at: 2018-02-27 17:31:13

Below is generated by plot.py at 2018-02-27 21:34:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 54.107 ms

Loss rate: 0.00%

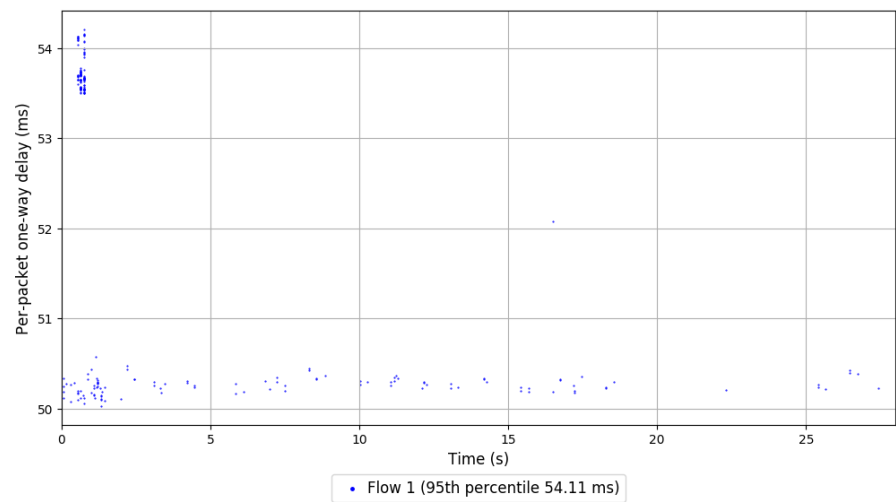
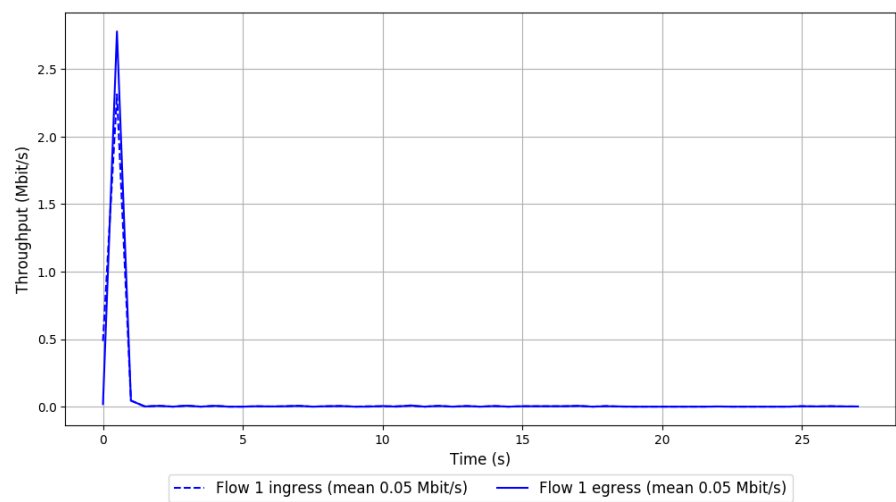
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 54.107 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-02-27 17:45:26

End at: 2018-02-27 17:45:56

Below is generated by plot.py at 2018-02-27 21:34:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.31 Mbit/s

95th percentile per-packet one-way delay: 53.499 ms

Loss rate: 0.00%

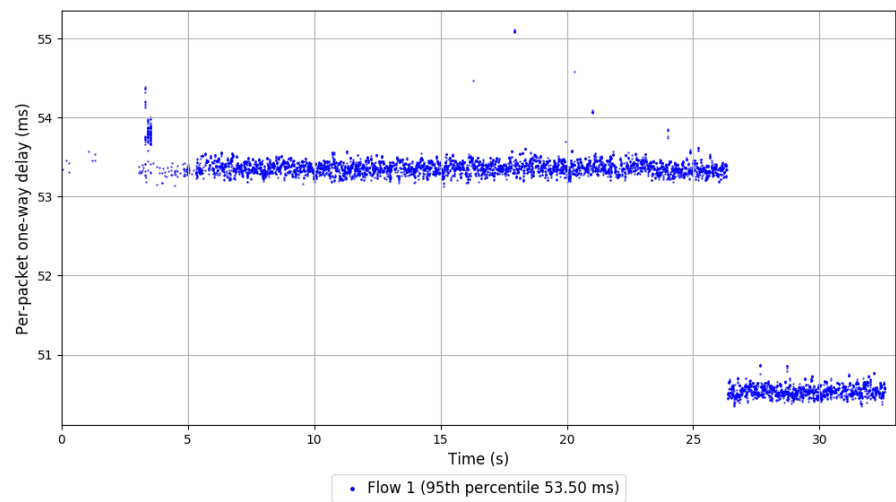
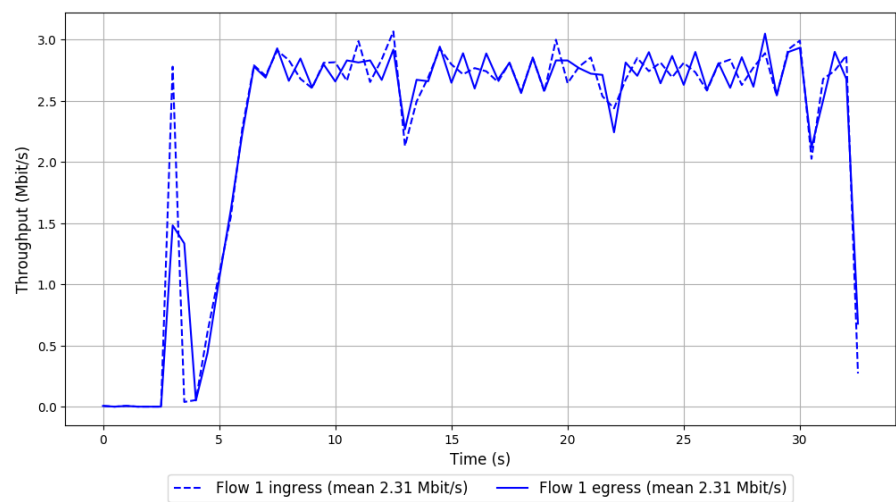
-- Flow 1:

Average throughput: 2.31 Mbit/s

95th percentile per-packet one-way delay: 53.499 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-02-27 18:00:07

End at: 2018-02-27 18:00:37

Below is generated by plot.py at 2018-02-27 21:34:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.31 Mbit/s

95th percentile per-packet one-way delay: 53.623 ms

Loss rate: 0.00%

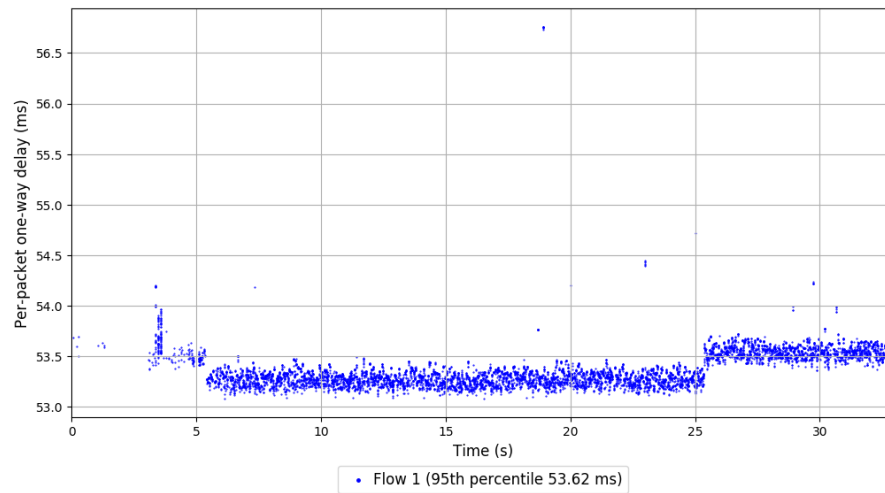
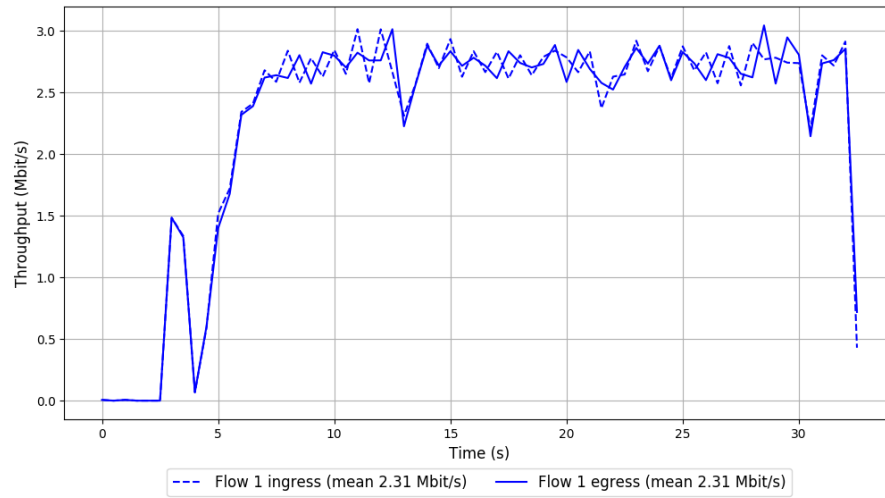
-- Flow 1:

Average throughput: 2.31 Mbit/s

95th percentile per-packet one-way delay: 53.623 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-02-27 18:14:34

End at: 2018-02-27 18:15:04

Below is generated by plot.py at 2018-02-27 21:34:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.33 Mbit/s

95th percentile per-packet one-way delay: 50.625 ms

Loss rate: 0.00%

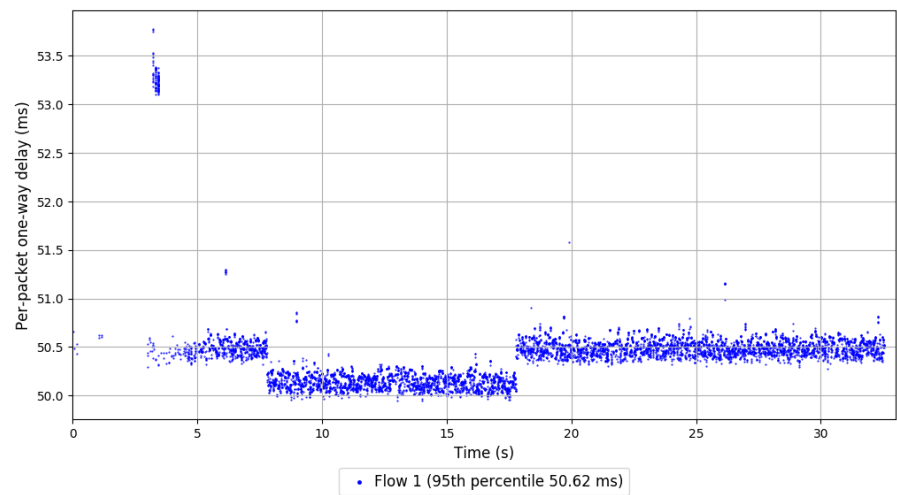
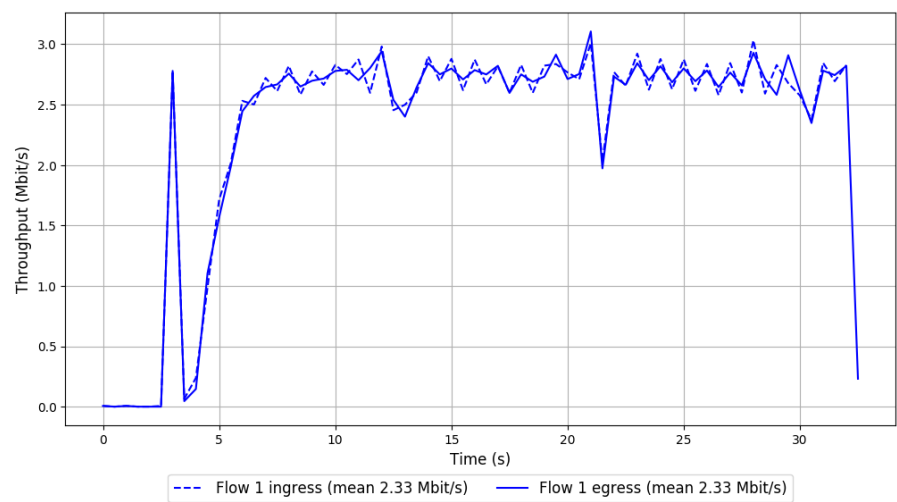
-- Flow 1:

Average throughput: 2.33 Mbit/s

95th percentile per-packet one-way delay: 50.625 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-02-27 18:29:07

End at: 2018-02-27 18:29:37

Below is generated by plot.py at 2018-02-27 21:34:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.31 Mbit/s

95th percentile per-packet one-way delay: 50.426 ms

Loss rate: 0.00%

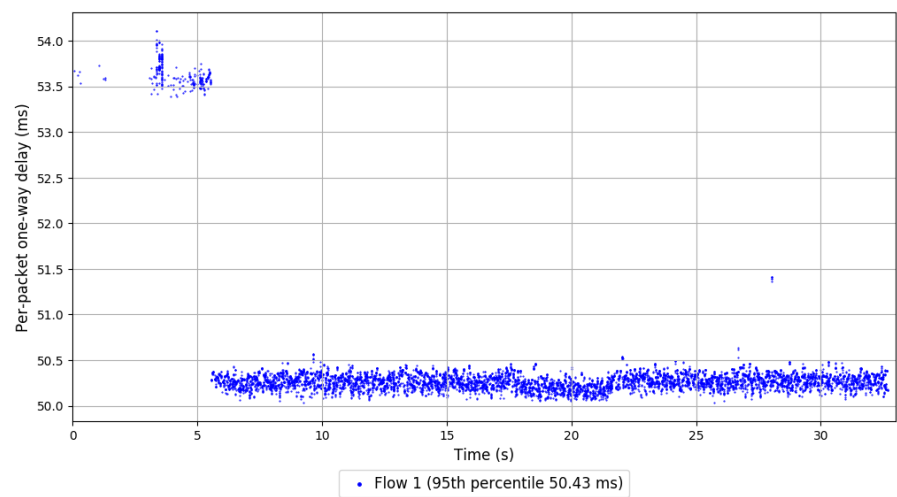
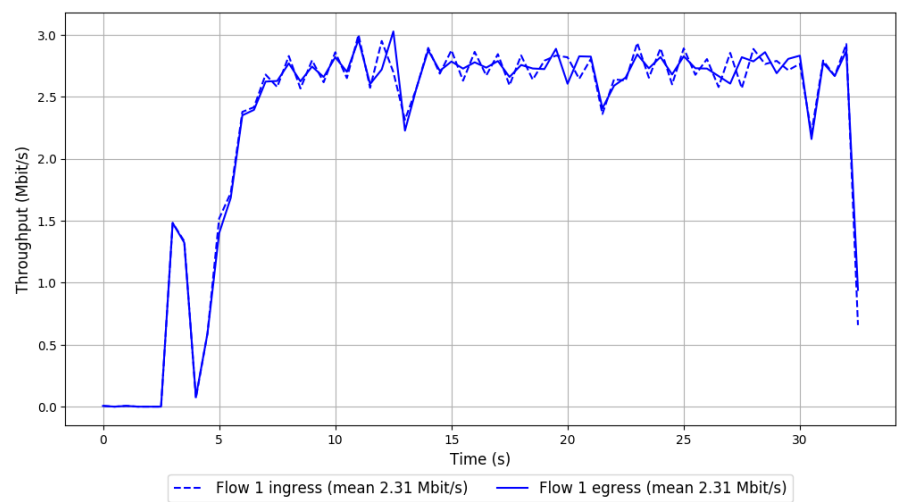
-- Flow 1:

Average throughput: 2.31 Mbit/s

95th percentile per-packet one-way delay: 50.426 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-02-27 18:43:55

End at: 2018-02-27 18:44:25

Below is generated by plot.py at 2018-02-27 21:34:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.33 Mbit/s

95th percentile per-packet one-way delay: 53.740 ms

Loss rate: 0.00%

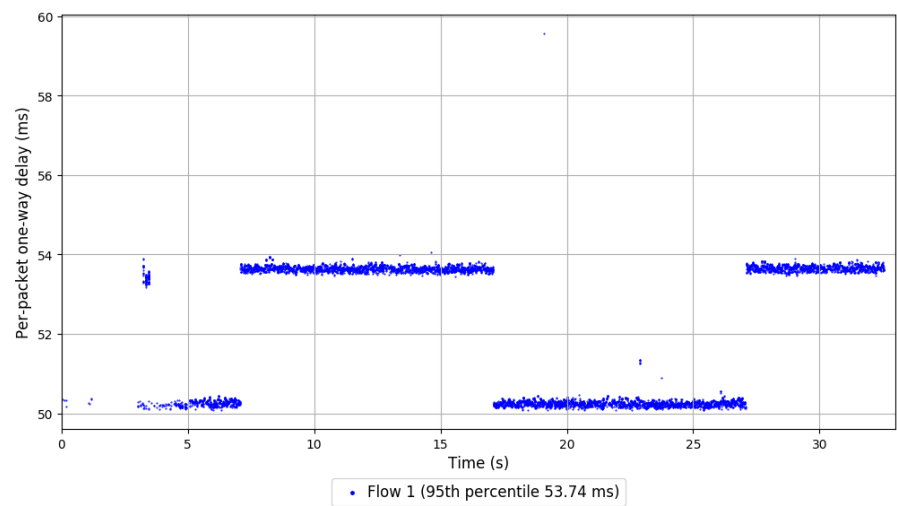
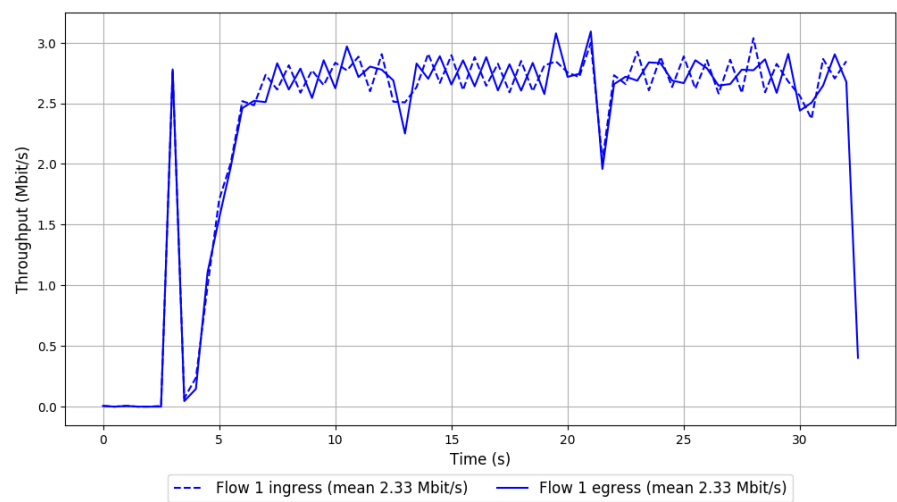
-- Flow 1:

Average throughput: 2.33 Mbit/s

95th percentile per-packet one-way delay: 53.740 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-02-27 18:58:50

End at: 2018-02-27 18:59:20

Below is generated by plot.py at 2018-02-27 21:34:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 50.376 ms

Loss rate: 0.00%

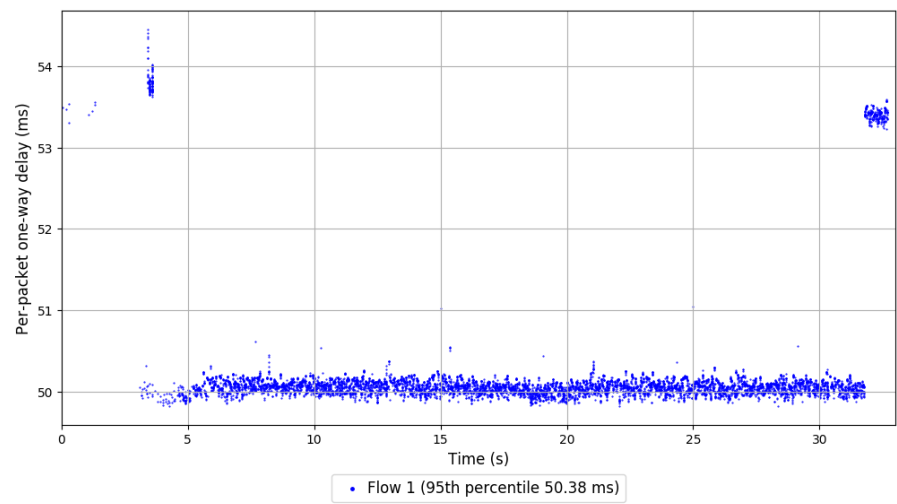
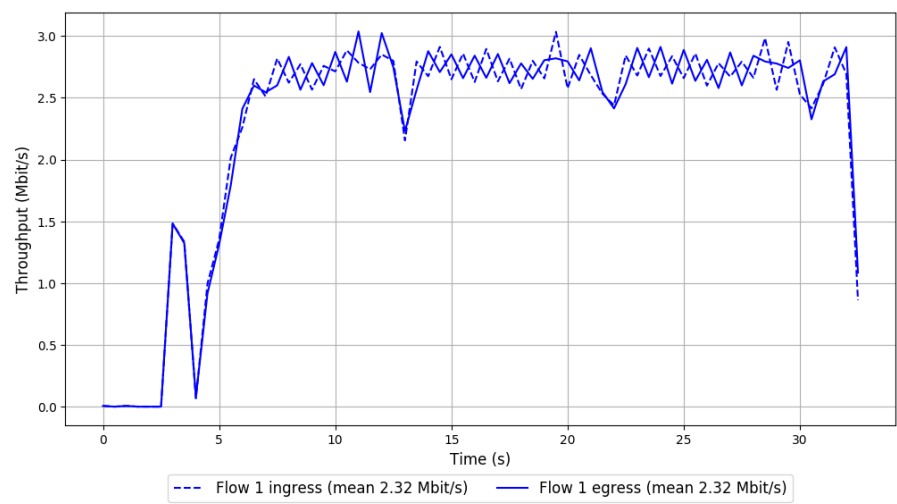
-- Flow 1:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 50.376 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-02-27 19:13:26

End at: 2018-02-27 19:13:56

Below is generated by plot.py at 2018-02-27 21:34:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.33 Mbit/s

95th percentile per-packet one-way delay: 50.748 ms

Loss rate: 0.00%

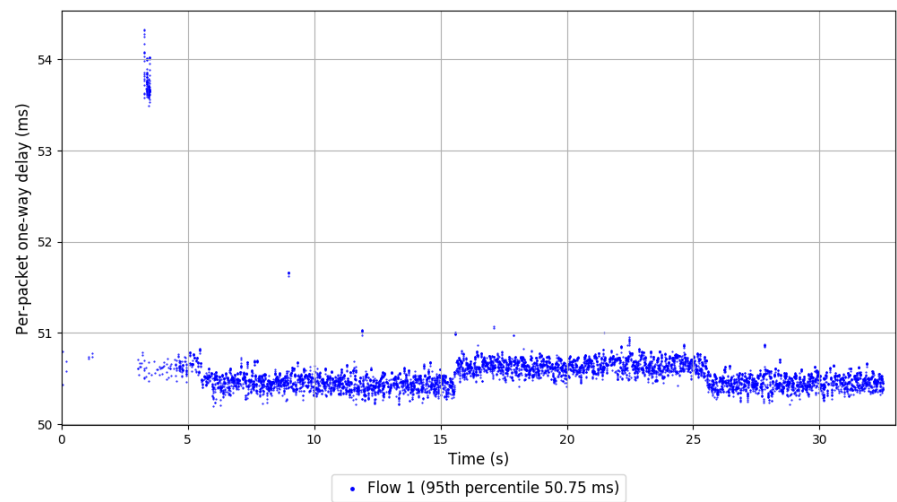
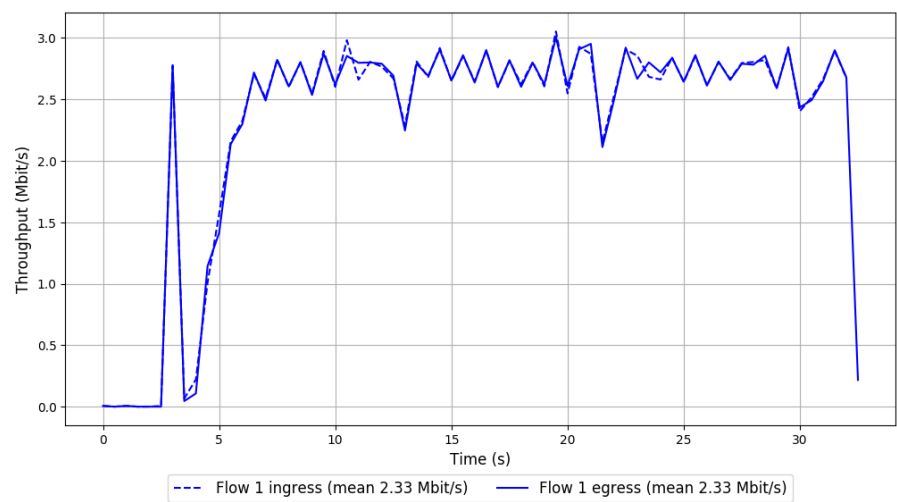
-- Flow 1:

Average throughput: 2.33 Mbit/s

95th percentile per-packet one-way delay: 50.748 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2018-02-27 17:06:08

End at: 2018-02-27 17:06:38

Below is generated by plot.py at 2018-02-27 21:34:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.33 Mbit/s

95th percentile per-packet one-way delay: 54.359 ms

Loss rate: 0.00%

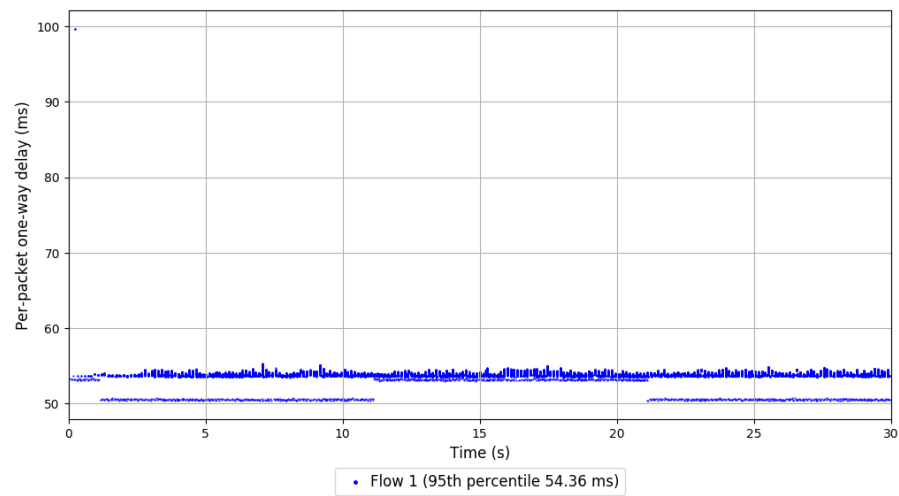
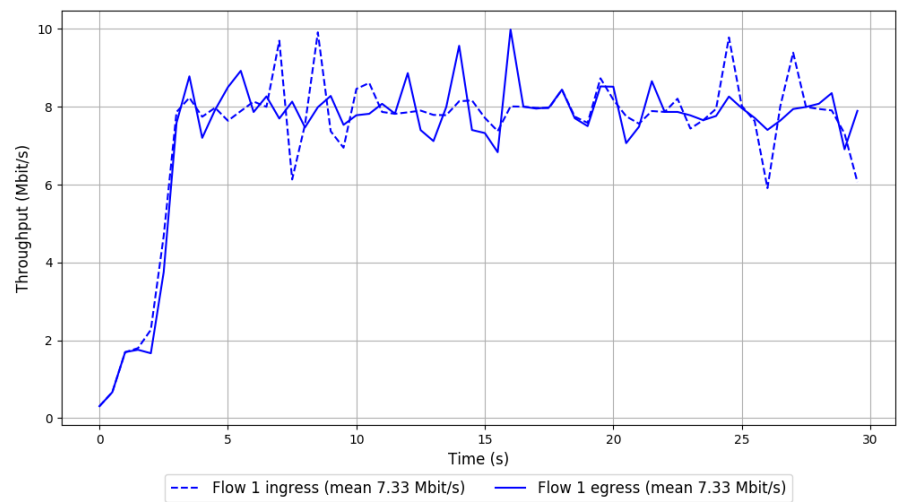
-- Flow 1:

Average throughput: 7.33 Mbit/s

95th percentile per-packet one-way delay: 54.359 ms

Loss rate: 0.00%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-02-27 17:20:52

End at: 2018-02-27 17:21:22

Below is generated by plot.py at 2018-02-27 21:34:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.77 Mbit/s

95th percentile per-packet one-way delay: 54.488 ms

Loss rate: 0.00%

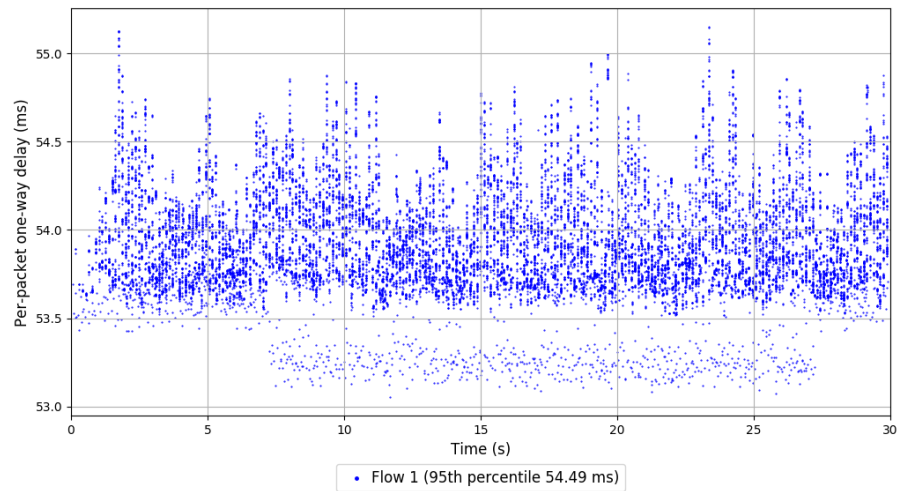
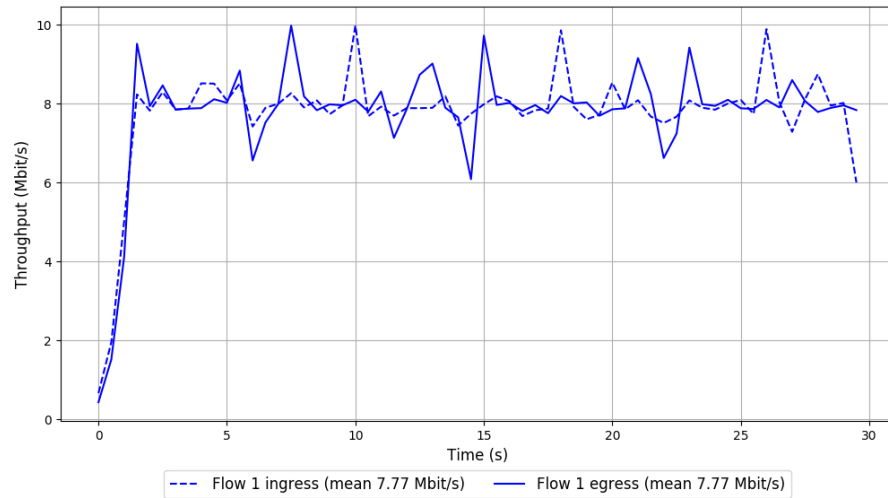
-- Flow 1:

Average throughput: 7.77 Mbit/s

95th percentile per-packet one-way delay: 54.488 ms

Loss rate: 0.00%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-02-27 17:35:35

End at: 2018-02-27 17:36:05

Below is generated by plot.py at 2018-02-27 21:34:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.69 Mbit/s

95th percentile per-packet one-way delay: 54.490 ms

Loss rate: 0.00%

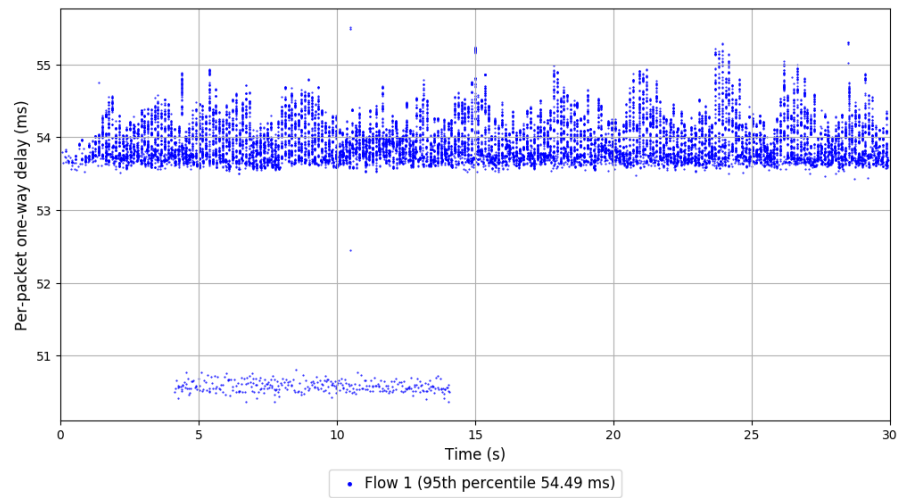
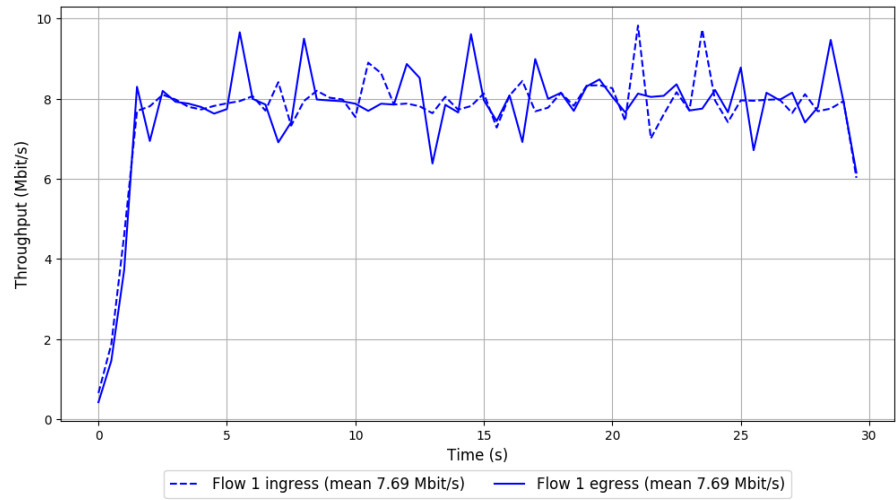
-- Flow 1:

Average throughput: 7.69 Mbit/s

95th percentile per-packet one-way delay: 54.490 ms

Loss rate: 0.00%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-02-27 17:50:02

End at: 2018-02-27 17:50:32

Below is generated by plot.py at 2018-02-27 21:34:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.76 Mbit/s

95th percentile per-packet one-way delay: 54.537 ms

Loss rate: 0.00%

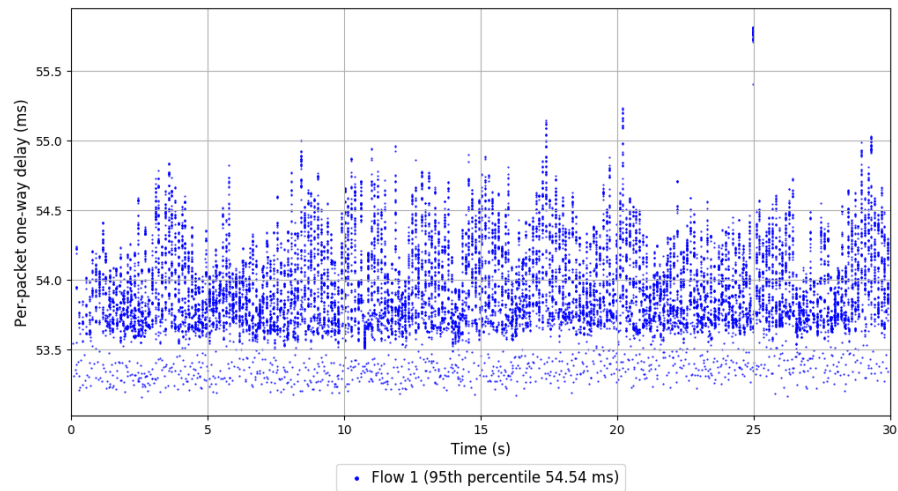
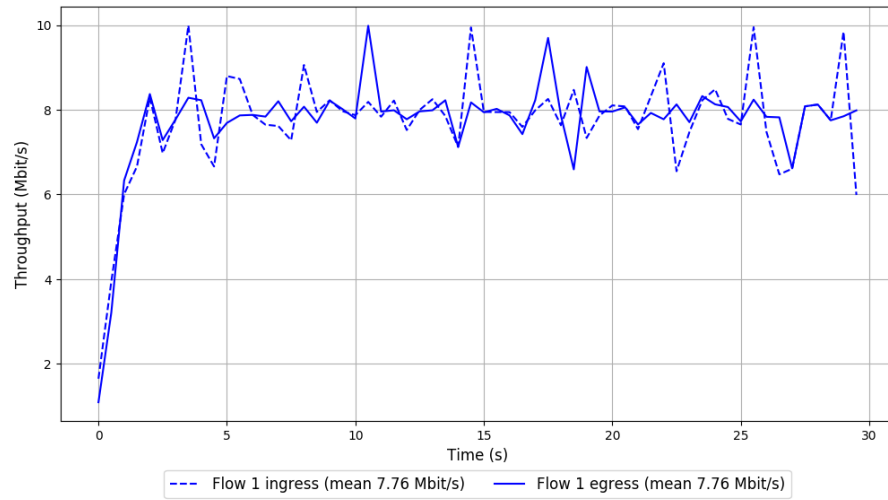
-- Flow 1:

Average throughput: 7.76 Mbit/s

95th percentile per-packet one-way delay: 54.537 ms

Loss rate: 0.00%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-02-27 18:04:49

End at: 2018-02-27 18:05:19

Below is generated by plot.py at 2018-02-27 21:34:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.87 Mbit/s

95th percentile per-packet one-way delay: 54.266 ms

Loss rate: 0.00%

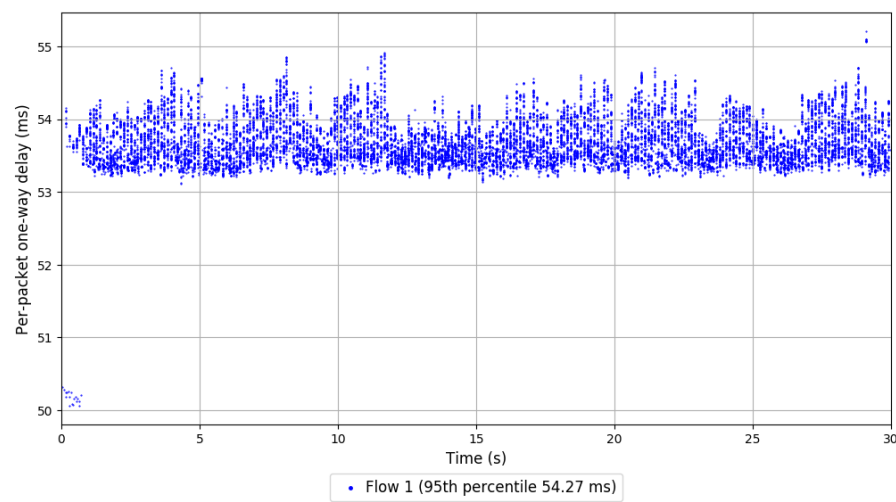
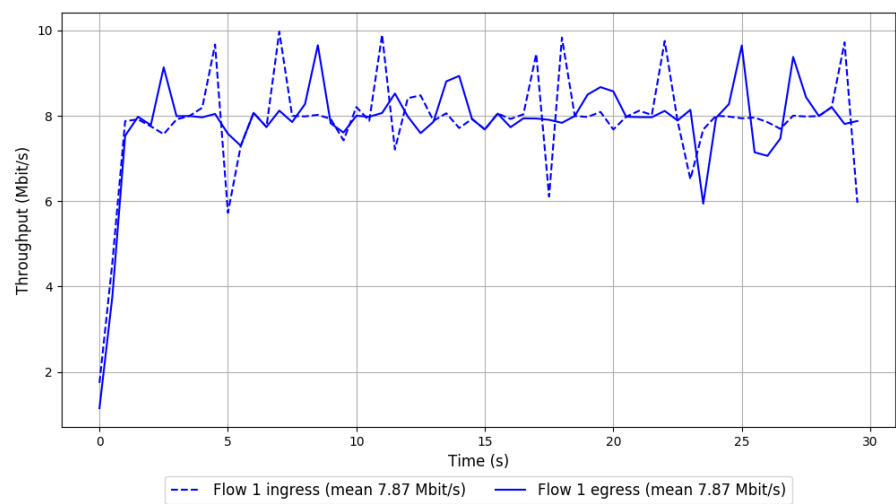
-- Flow 1:

Average throughput: 7.87 Mbit/s

95th percentile per-packet one-way delay: 54.266 ms

Loss rate: 0.00%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-02-27 18:19:12

End at: 2018-02-27 18:19:42

Below is generated by plot.py at 2018-02-27 21:34:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.67 Mbit/s

95th percentile per-packet one-way delay: 54.240 ms

Loss rate: 0.00%

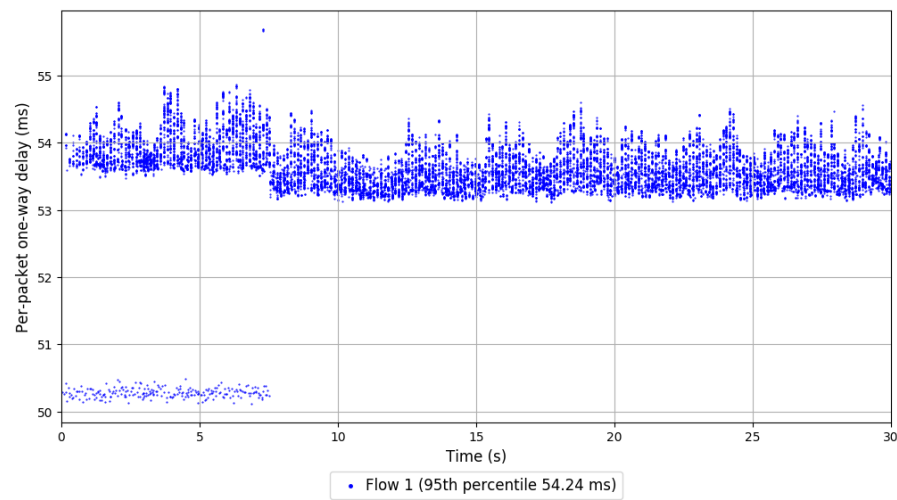
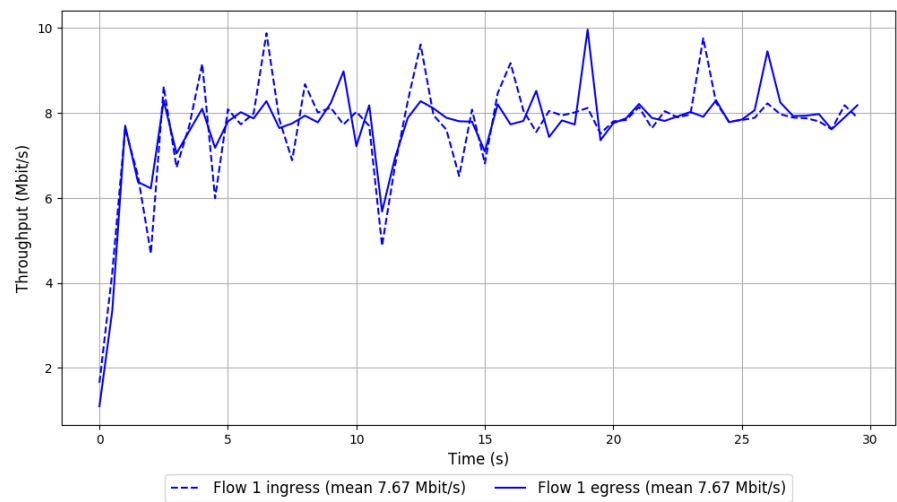
-- Flow 1:

Average throughput: 7.67 Mbit/s

95th percentile per-packet one-way delay: 54.240 ms

Loss rate: 0.00%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-02-27 18:33:48

End at: 2018-02-27 18:34:18

Below is generated by plot.py at 2018-02-27 21:34:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.84 Mbit/s

95th percentile per-packet one-way delay: 54.459 ms

Loss rate: 0.00%

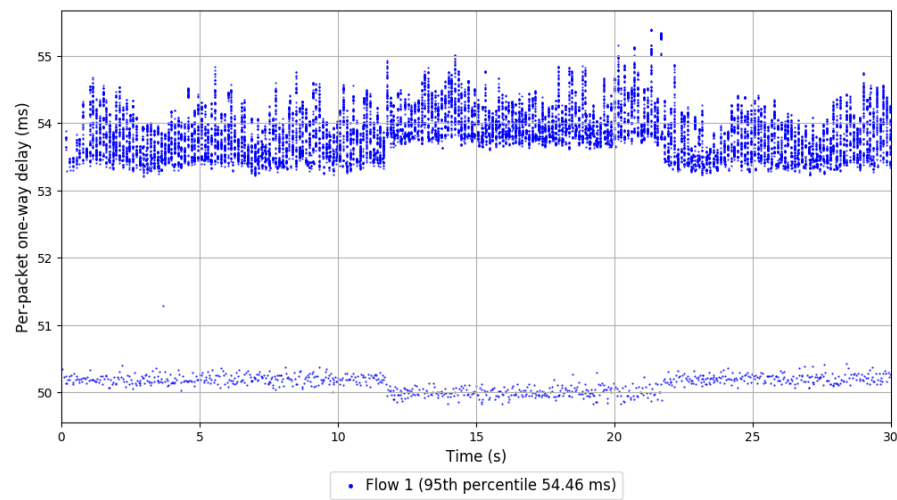
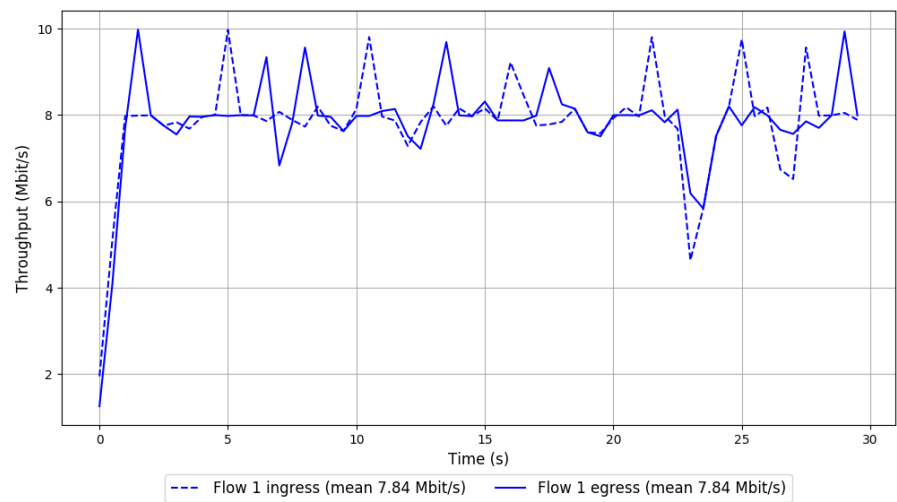
-- Flow 1:

Average throughput: 7.84 Mbit/s

95th percentile per-packet one-way delay: 54.459 ms

Loss rate: 0.00%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-02-27 18:48:52

End at: 2018-02-27 18:49:22

Below is generated by plot.py at 2018-02-27 21:34:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.79 Mbit/s

95th percentile per-packet one-way delay: 54.547 ms

Loss rate: 0.00%

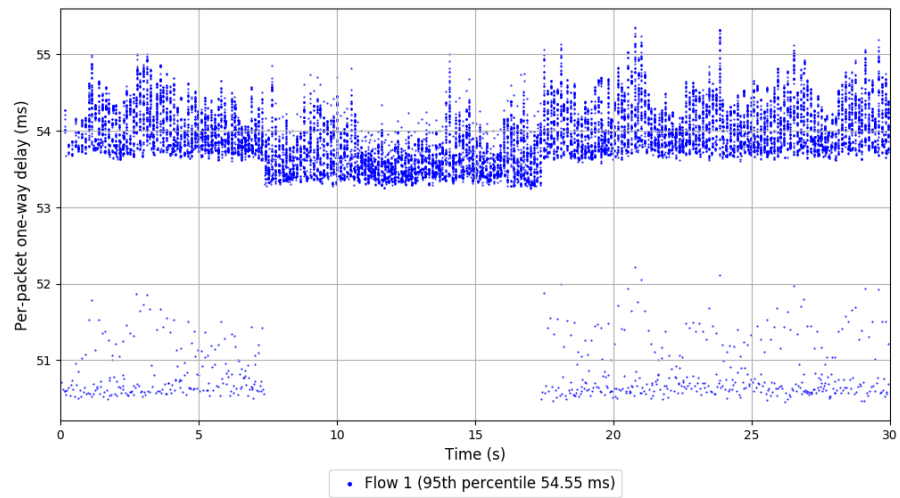
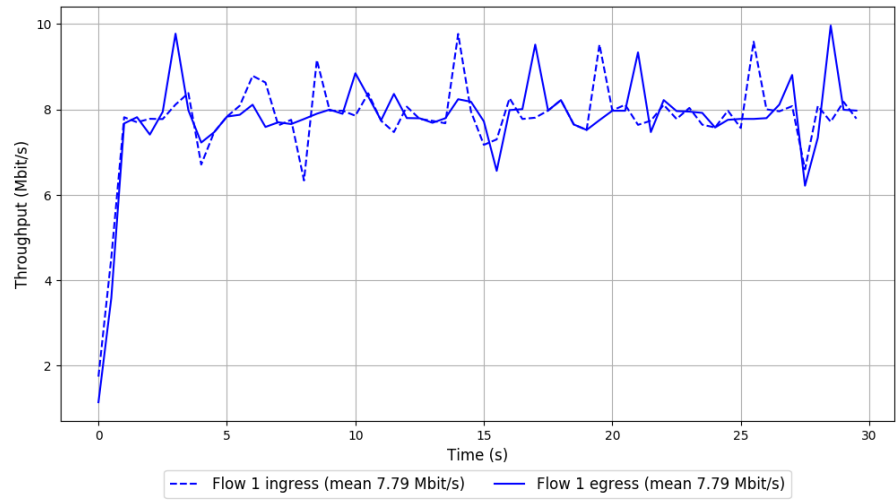
-- Flow 1:

Average throughput: 7.79 Mbit/s

95th percentile per-packet one-way delay: 54.547 ms

Loss rate: 0.00%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-02-27 19:03:29

End at: 2018-02-27 19:03:59

Below is generated by plot.py at 2018-02-27 21:34:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.79 Mbit/s

95th percentile per-packet one-way delay: 54.579 ms

Loss rate: 0.00%

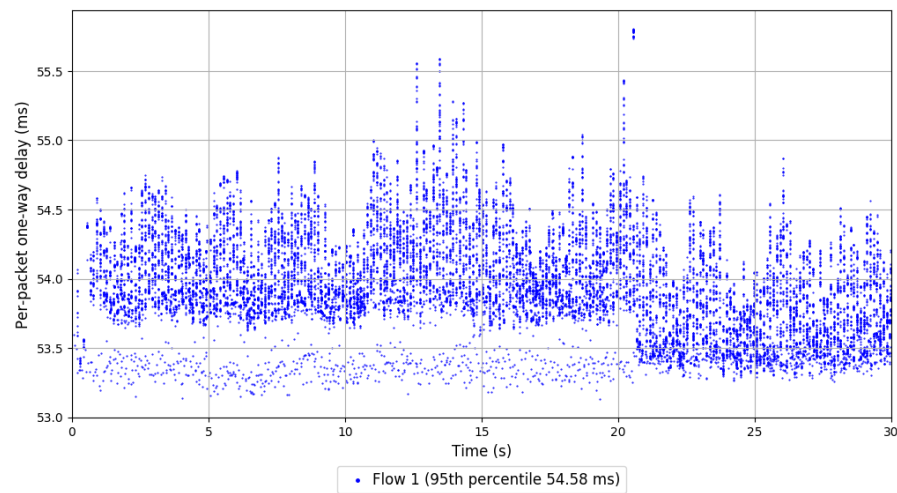
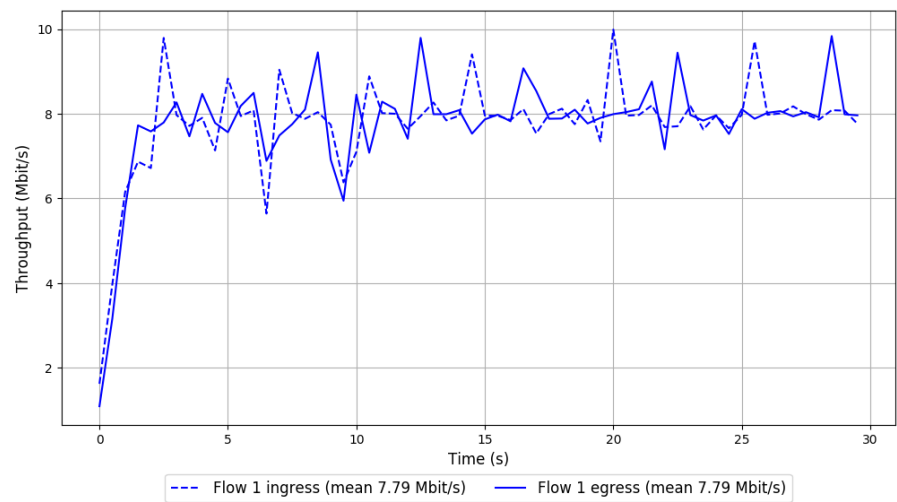
-- Flow 1:

Average throughput: 7.79 Mbit/s

95th percentile per-packet one-way delay: 54.579 ms

Loss rate: 0.00%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-02-27 19:18:03

End at: 2018-02-27 19:18:33

Below is generated by plot.py at 2018-02-27 21:34:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.72 Mbit/s

95th percentile per-packet one-way delay: 54.498 ms

Loss rate: 0.00%

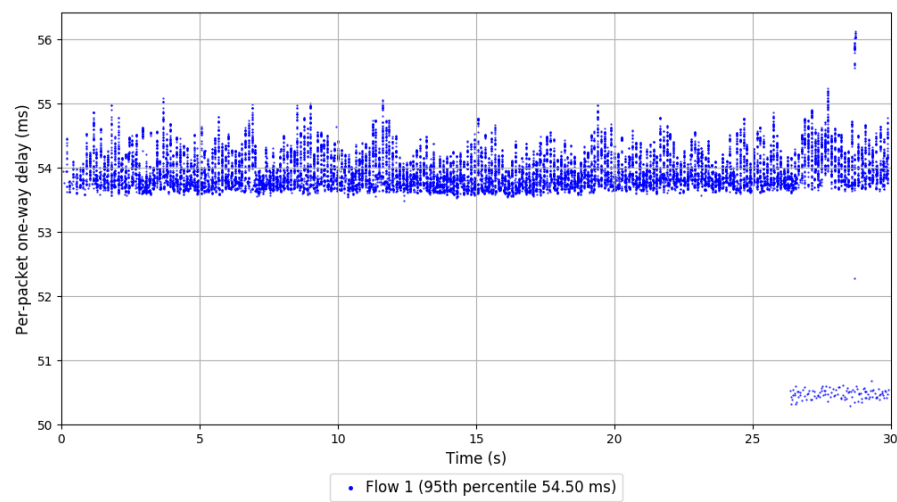
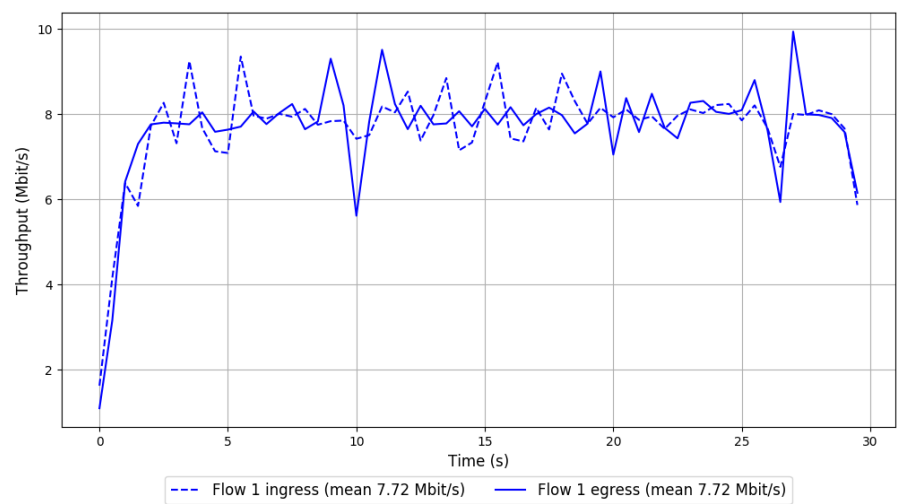
-- Flow 1:

Average throughput: 7.72 Mbit/s

95th percentile per-packet one-way delay: 54.498 ms

Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

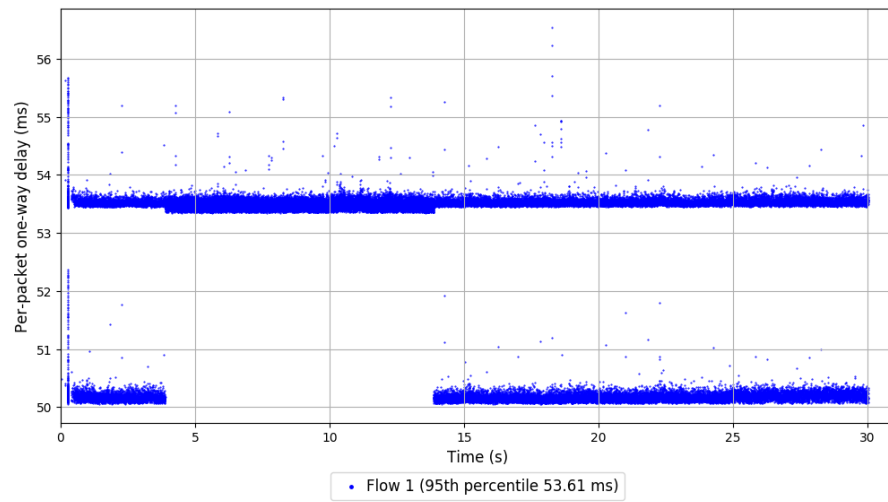
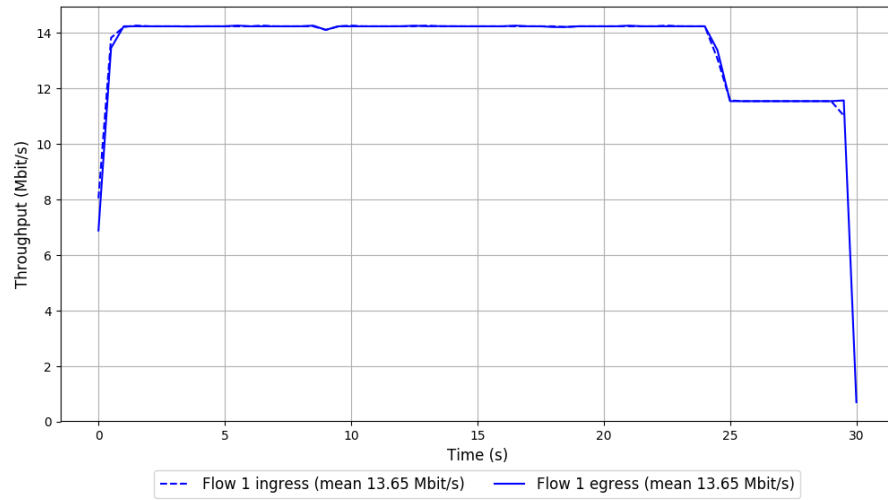


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-02-27 17:06:45
End at: 2018-02-27 17:07:16

# Below is generated by plot.py at 2018-02-27 21:34:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 13.65 Mbit/s
95th percentile per-packet one-way delay: 53.606 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 13.65 Mbit/s
95th percentile per-packet one-way delay: 53.606 ms
Loss rate: 0.00%
```


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

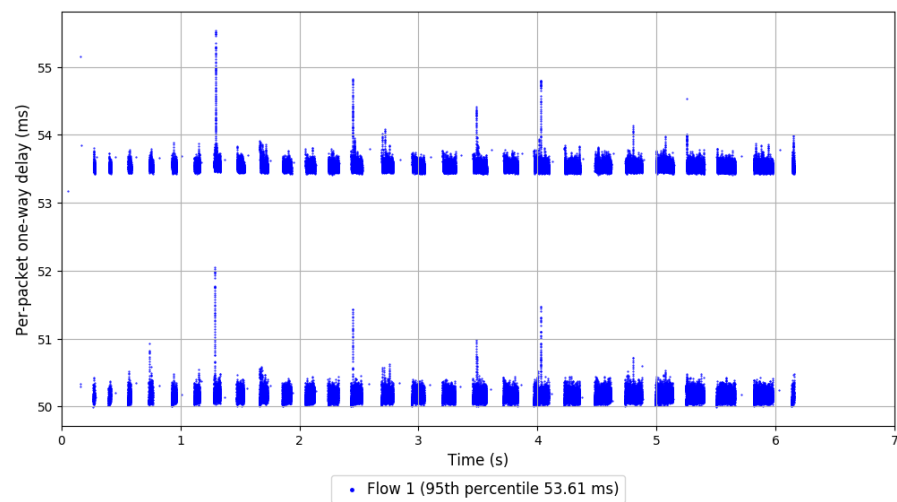
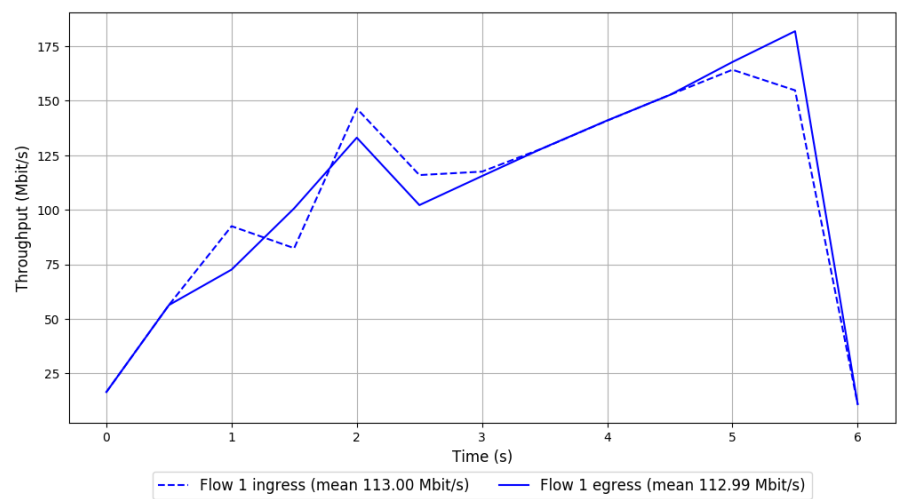


Run 2: Statistics of TaoVA-100x

Start at: 2018-02-27 17:21:29

End at: 2018-02-27 17:21:59

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

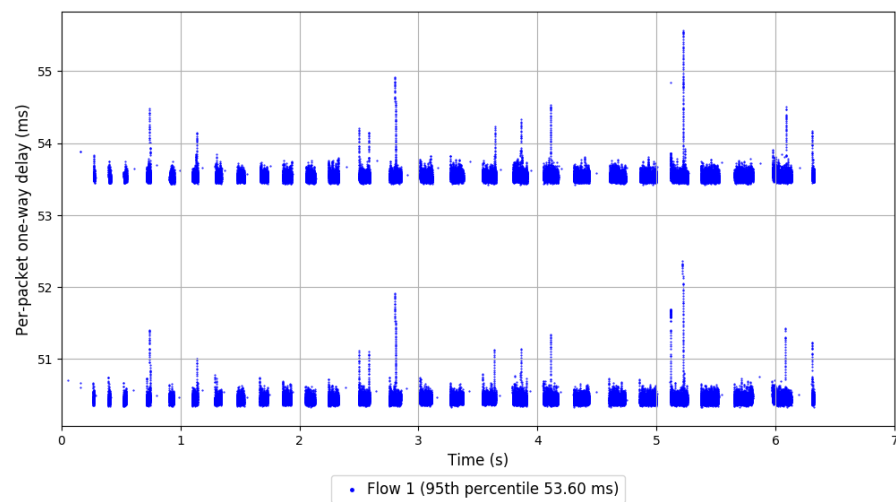
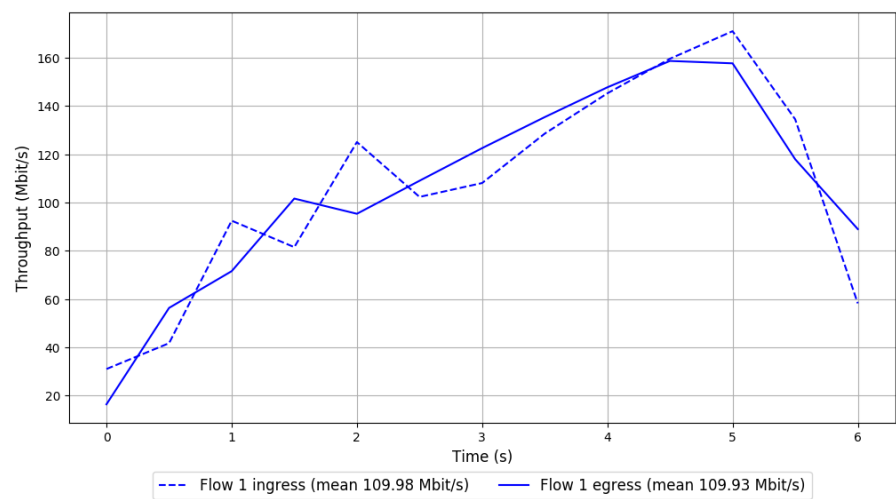


Run 3: Statistics of TaoVA-100x

Start at: 2018-02-27 17:36:13

End at: 2018-02-27 17:36:43

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-02-27 17:50:39

End at: 2018-02-27 17:51:09

Below is generated by plot.py at 2018-02-27 21:35:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 245.77 Mbit/s

95th percentile per-packet one-way delay: 53.649 ms

Loss rate: 0.00%

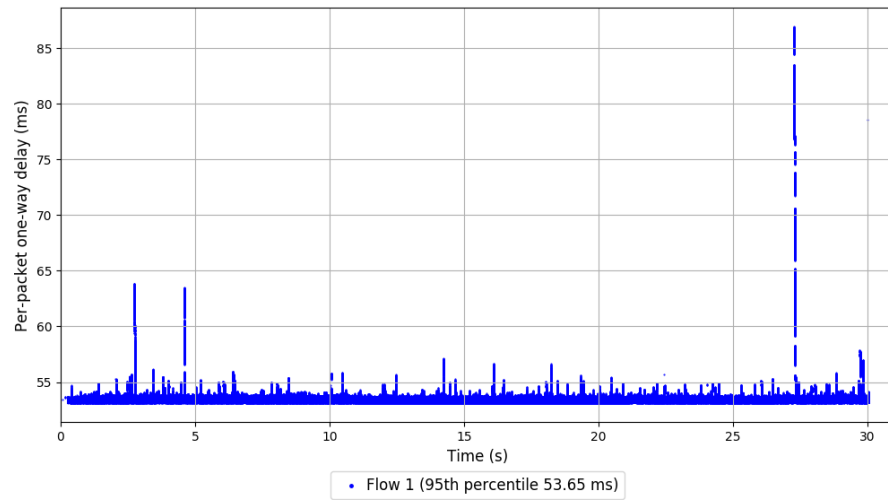
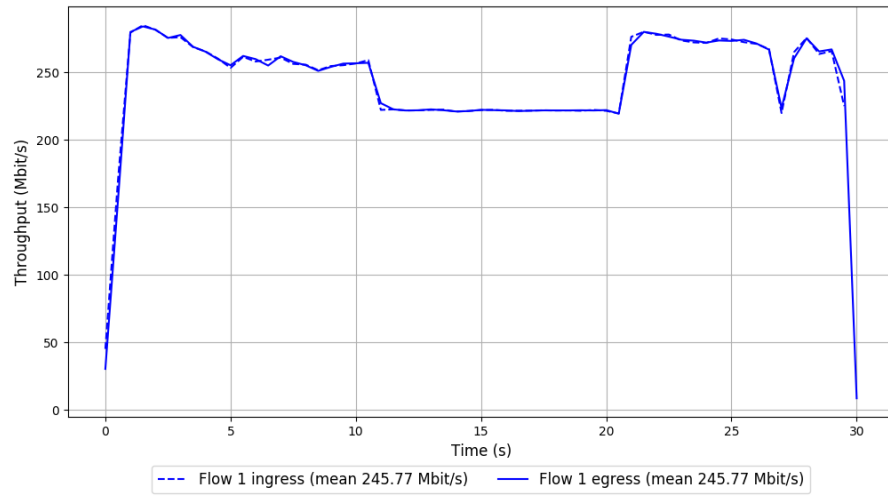
-- Flow 1:

Average throughput: 245.77 Mbit/s

95th percentile per-packet one-way delay: 53.649 ms

Loss rate: 0.00%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-02-27 18:05:26

End at: 2018-02-27 18:05:56

Below is generated by plot.py at 2018-02-27 21:35:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.48 Mbit/s

95th percentile per-packet one-way delay: 53.522 ms

Loss rate: 0.00%

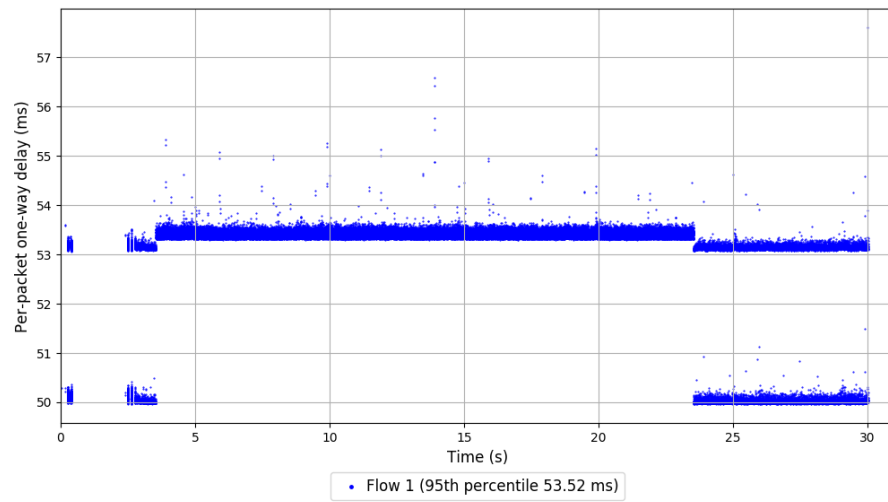
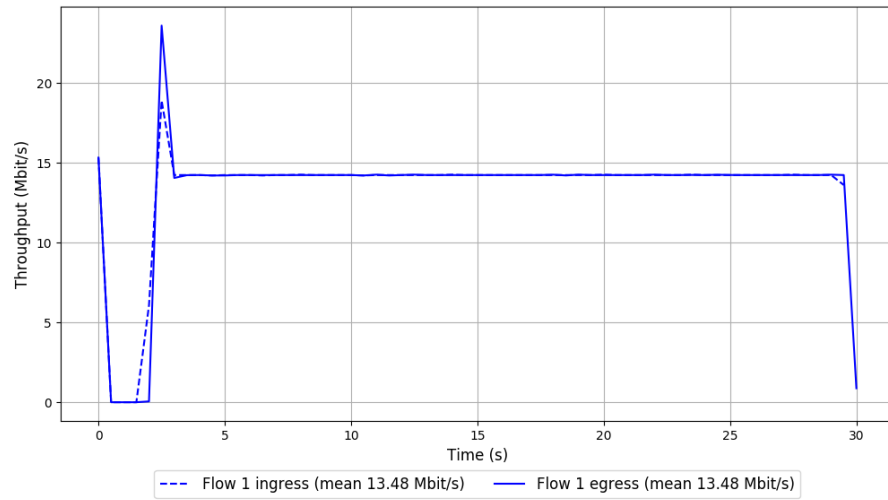
-- Flow 1:

Average throughput: 13.48 Mbit/s

95th percentile per-packet one-way delay: 53.522 ms

Loss rate: 0.00%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-02-27 18:19:49

End at: 2018-02-27 18:20:19

Below is generated by plot.py at 2018-02-27 21:35:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 15.37 Mbit/s

95th percentile per-packet one-way delay: 53.542 ms

Loss rate: 0.00%

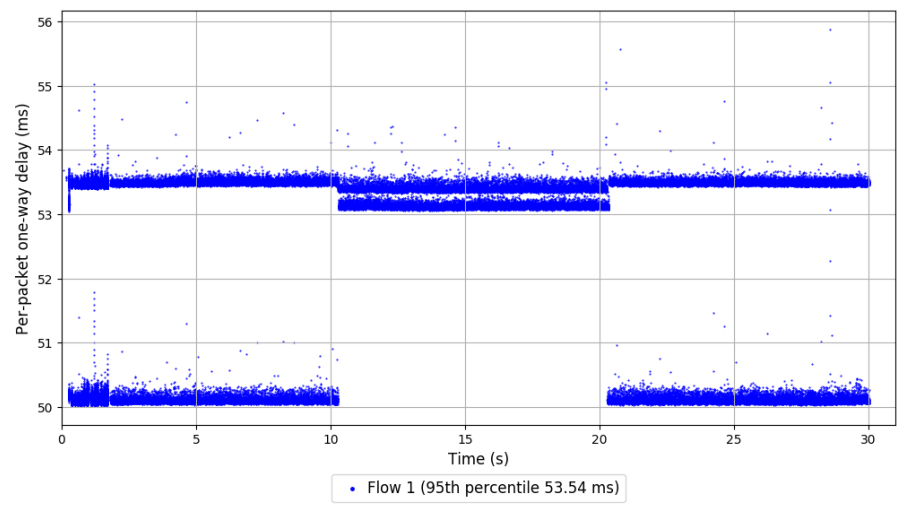
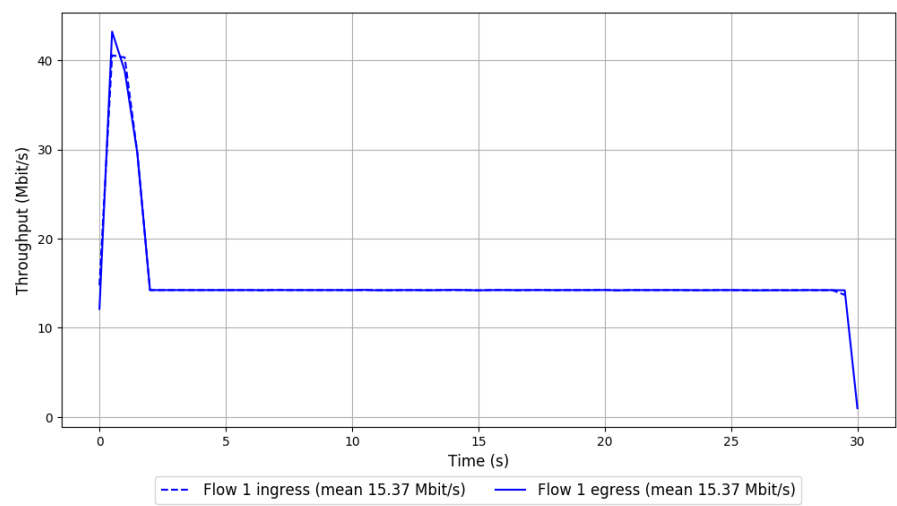
-- Flow 1:

Average throughput: 15.37 Mbit/s

95th percentile per-packet one-way delay: 53.542 ms

Loss rate: 0.00%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-02-27 18:34:25

End at: 2018-02-27 18:34:55

Below is generated by plot.py at 2018-02-27 21:35:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 192.37 Mbit/s

95th percentile per-packet one-way delay: 53.657 ms

Loss rate: 0.00%

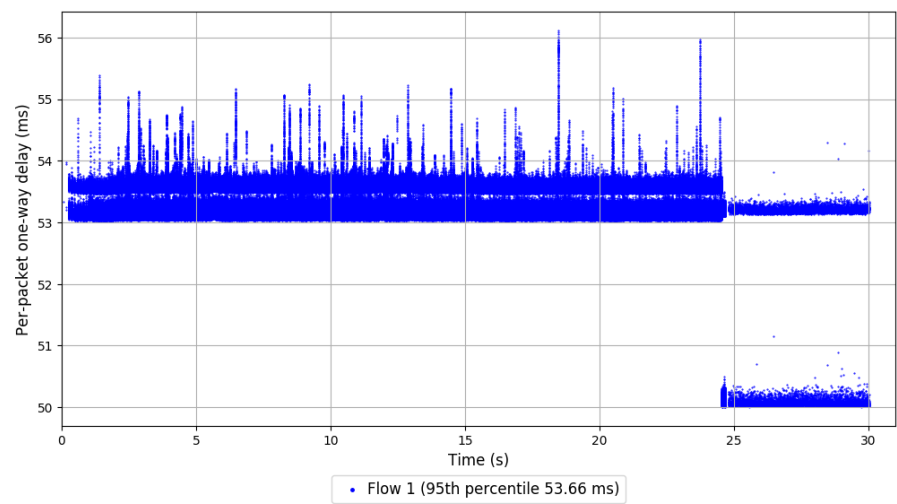
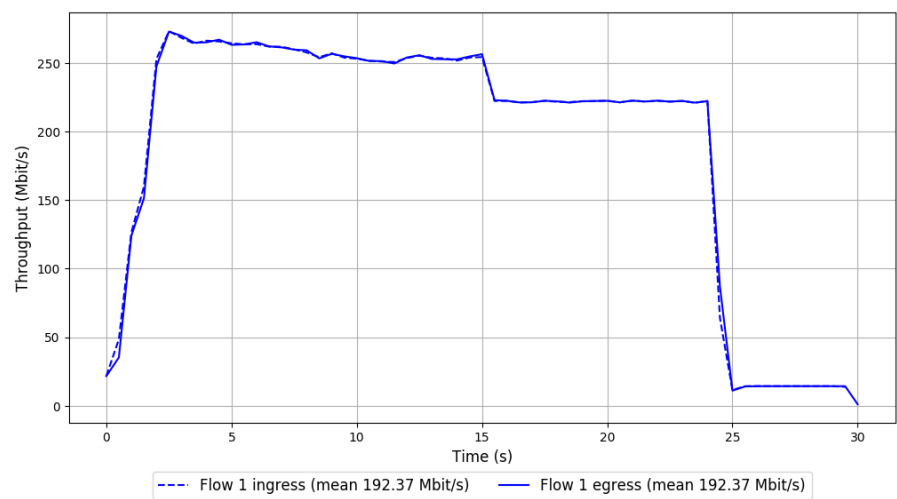
-- Flow 1:

Average throughput: 192.37 Mbit/s

95th percentile per-packet one-way delay: 53.657 ms

Loss rate: 0.00%

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

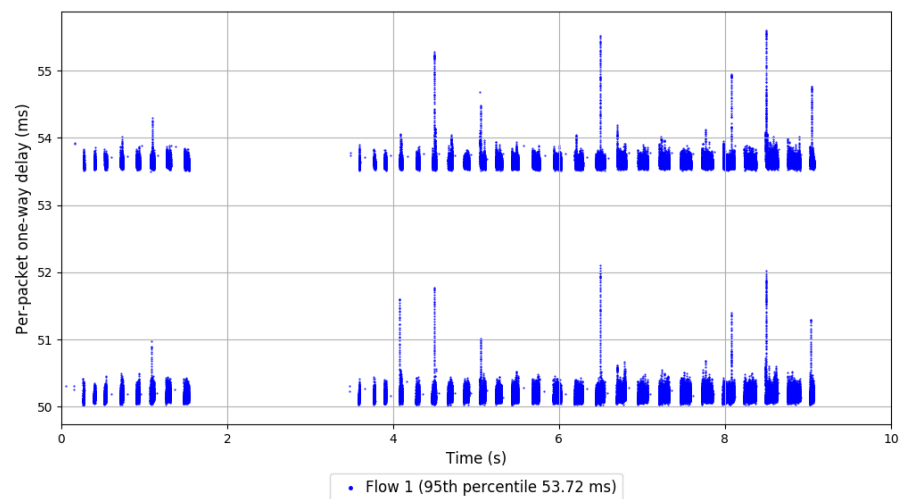
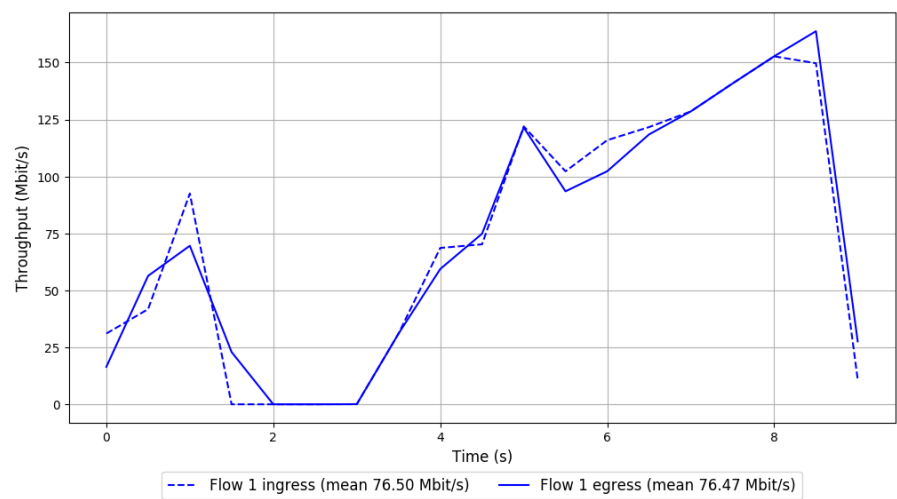


Run 8: Statistics of TaoVA-100x

Start at: 2018-02-27 18:49:29

End at: 2018-02-27 18:49:59

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

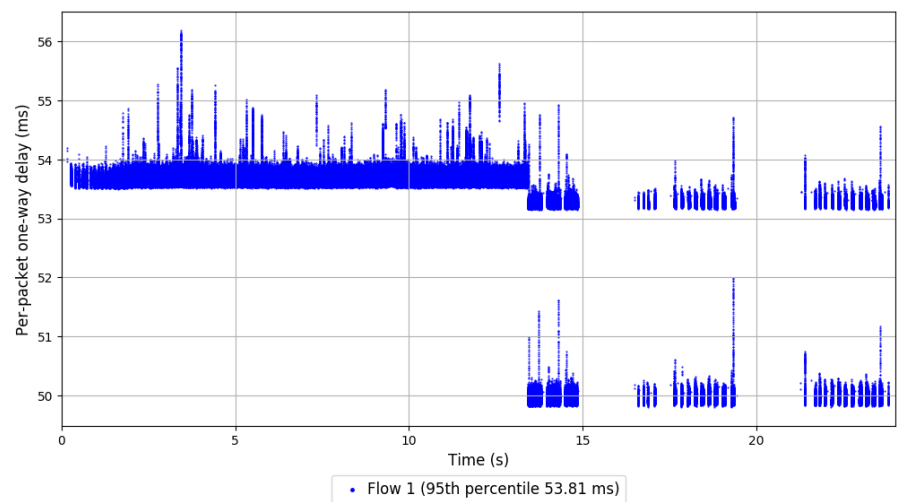
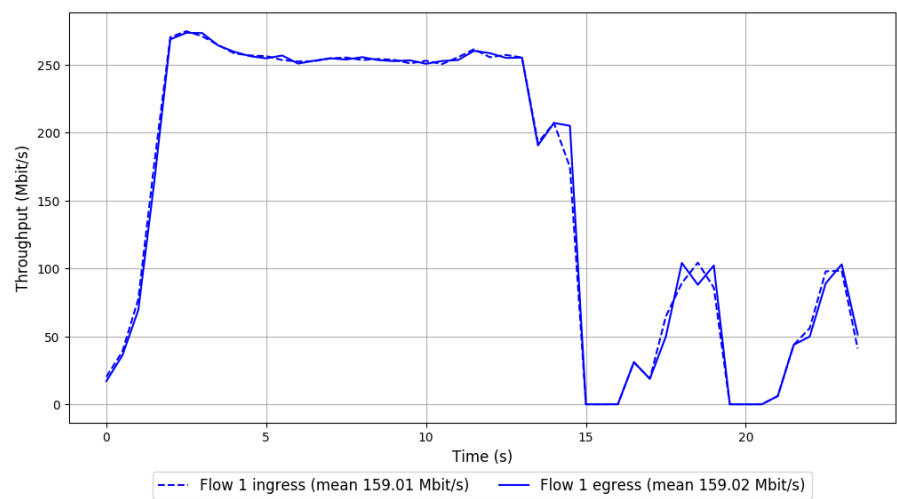


Run 9: Statistics of TaoVA-100x

Start at: 2018-02-27 19:04:06

End at: 2018-02-27 19:04:36

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

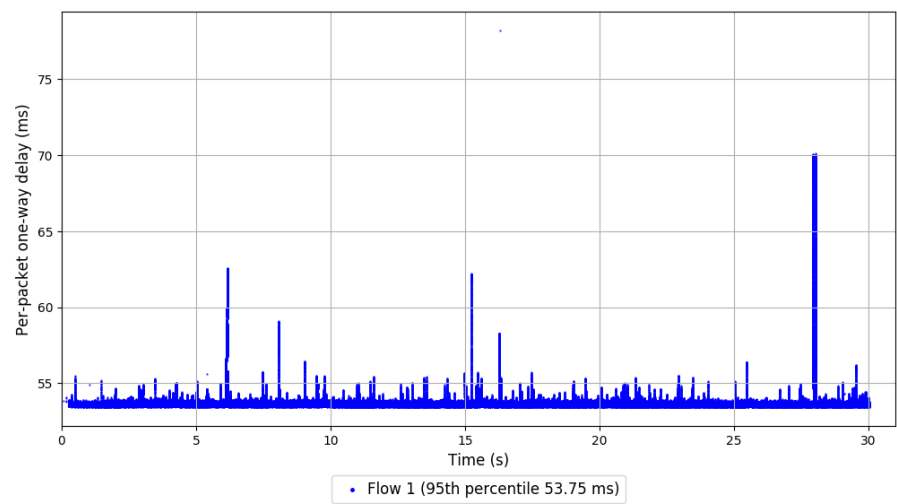
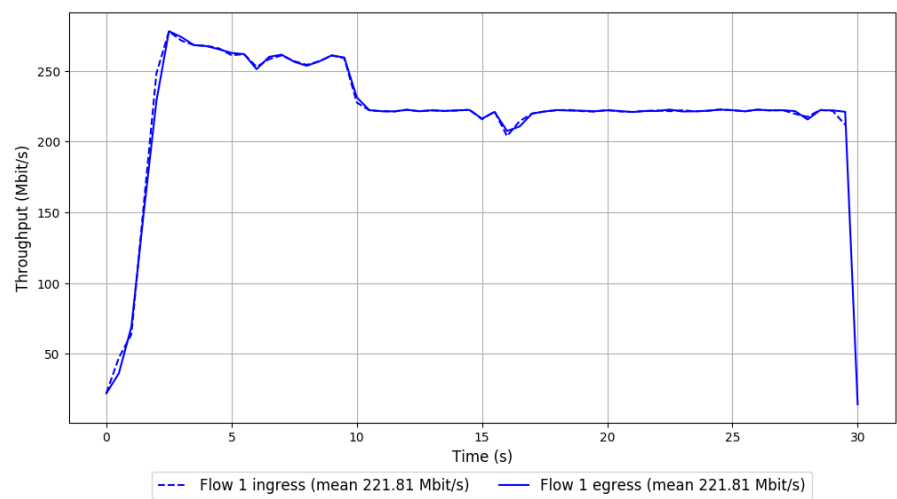


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-02-27 19:18:40
End at: 2018-02-27 19:19:10

# Below is generated by plot.py at 2018-02-27 21:35:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 221.81 Mbit/s
95th percentile per-packet one-way delay: 53.747 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 221.81 Mbit/s
95th percentile per-packet one-way delay: 53.747 ms
Loss rate: 0.00%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2018-02-27 17:10:13

End at: 2018-02-27 17:10:43

Below is generated by plot.py at 2018-02-27 21:35:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.88 Mbit/s

95th percentile per-packet one-way delay: 54.529 ms

Loss rate: 0.00%

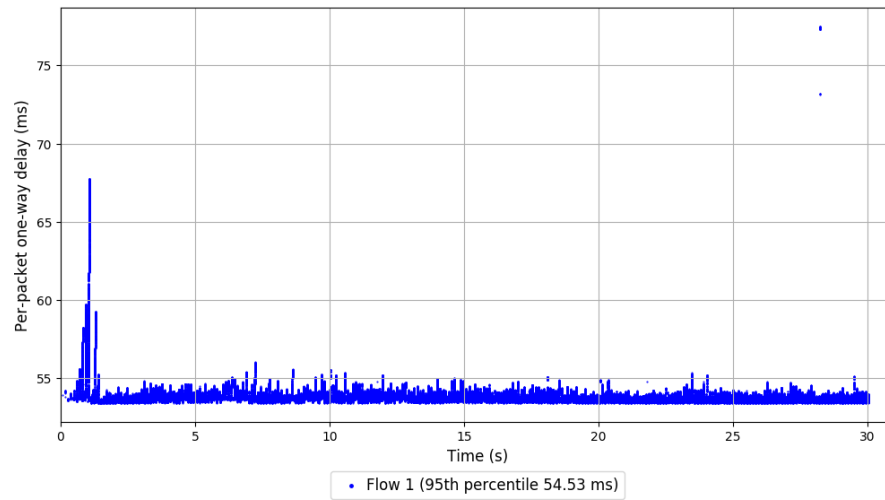
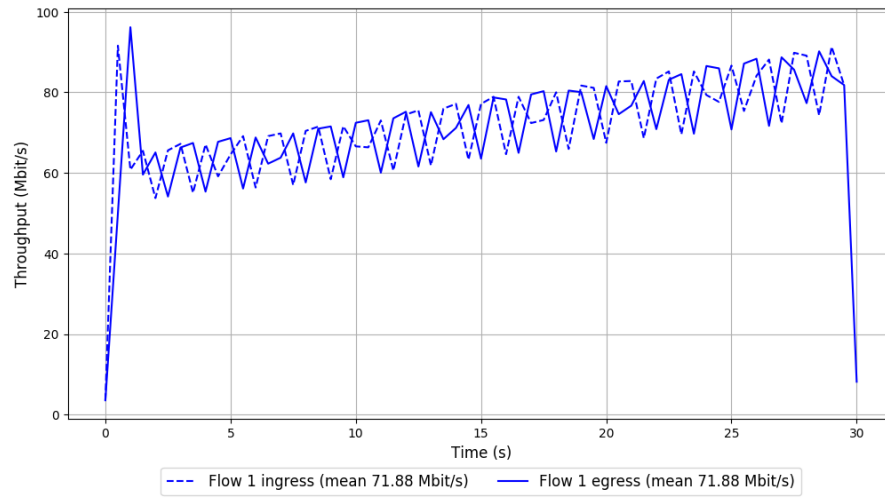
-- Flow 1:

Average throughput: 71.88 Mbit/s

95th percentile per-packet one-way delay: 54.529 ms

Loss rate: 0.00%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-02-27 17:24:52

End at: 2018-02-27 17:25:22

Below is generated by plot.py at 2018-02-27 21:35:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 163.43 Mbit/s

95th percentile per-packet one-way delay: 60.468 ms

Loss rate: 0.01%

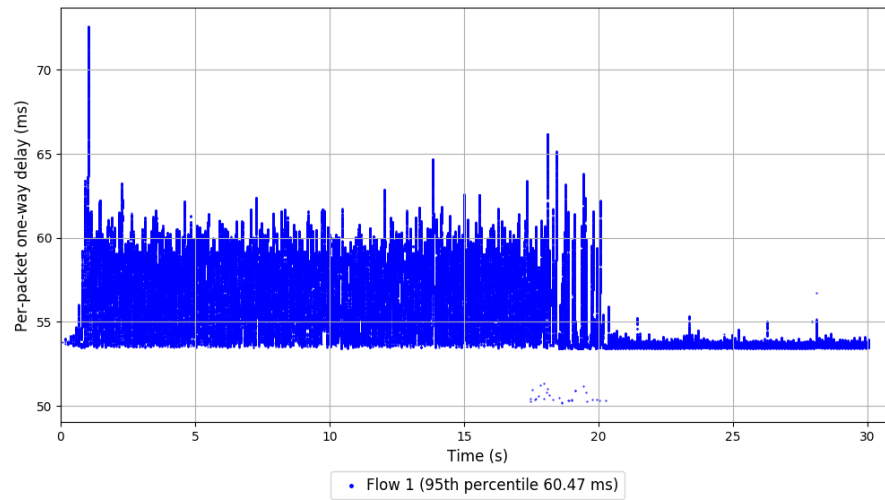
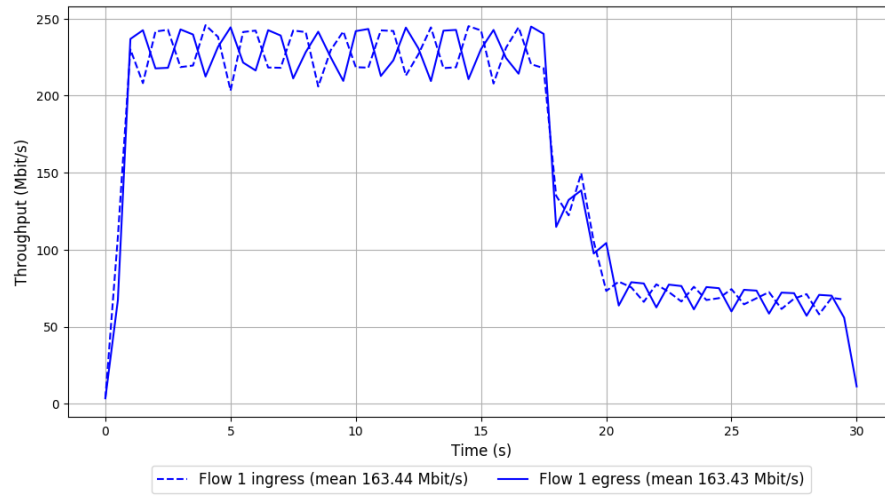
-- Flow 1:

Average throughput: 163.43 Mbit/s

95th percentile per-packet one-way delay: 60.468 ms

Loss rate: 0.01%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-02-27 17:39:40

End at: 2018-02-27 17:40:10

Below is generated by plot.py at 2018-02-27 21:35:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 60.84 Mbit/s

95th percentile per-packet one-way delay: 54.774 ms

Loss rate: 0.00%

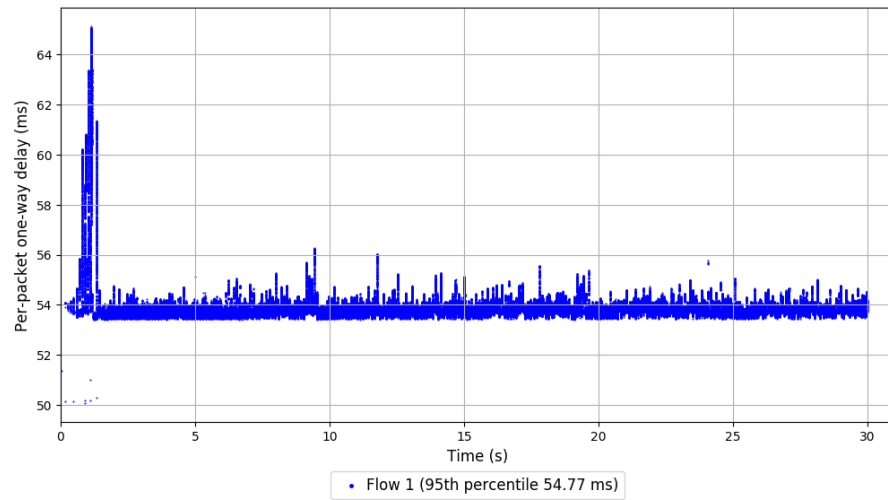
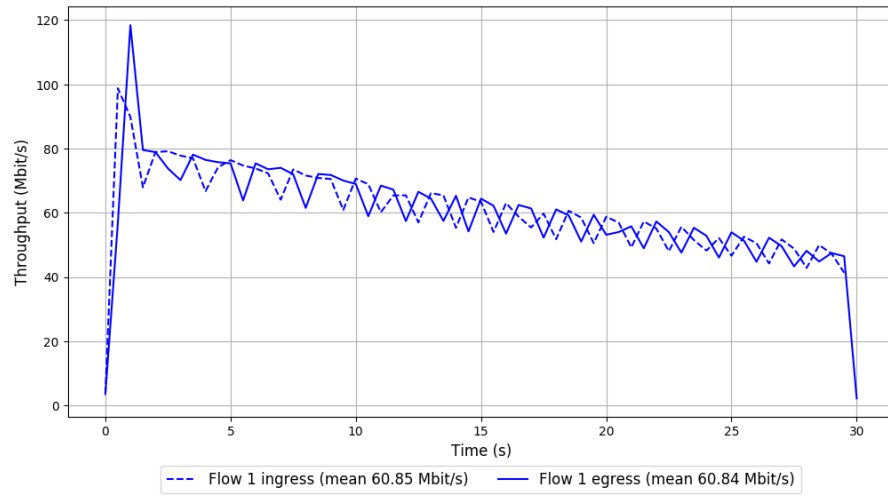
-- Flow 1:

Average throughput: 60.84 Mbit/s

95th percentile per-packet one-way delay: 54.774 ms

Loss rate: 0.00%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-02-27 17:54:22

End at: 2018-02-27 17:54:52

Below is generated by plot.py at 2018-02-27 21:35:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 19.61 Mbit/s

95th percentile per-packet one-way delay: 54.158 ms

Loss rate: 0.00%

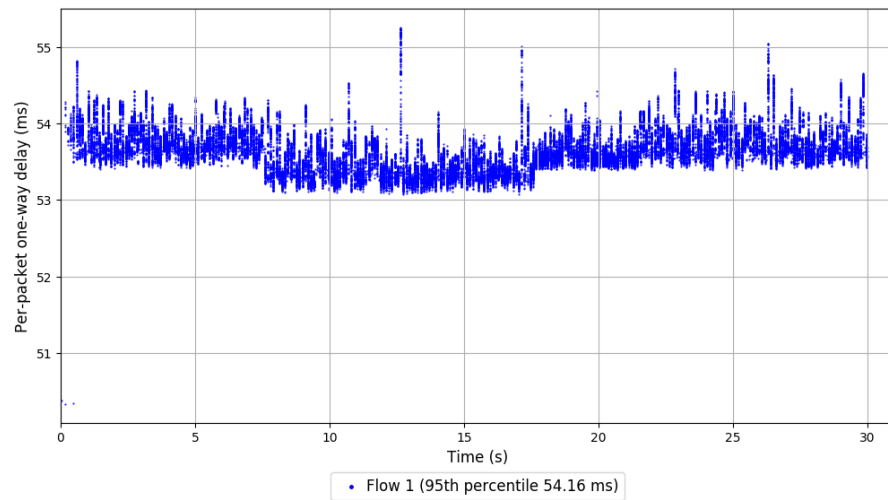
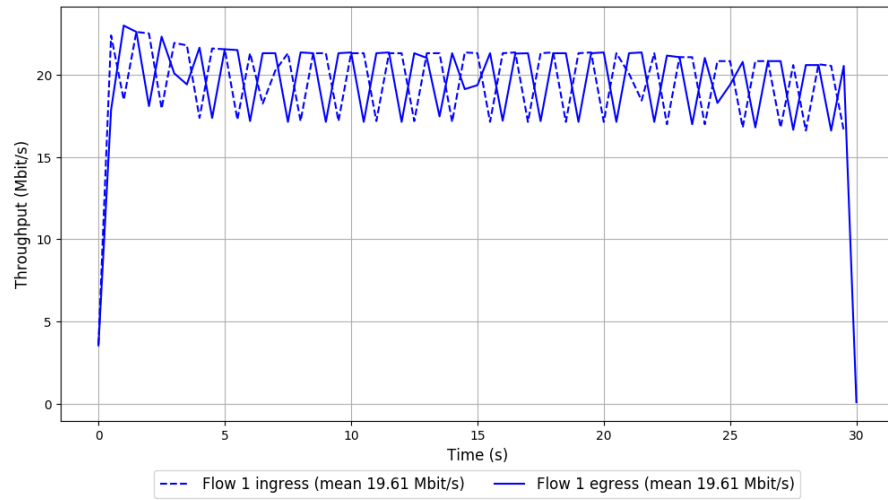
-- Flow 1:

Average throughput: 19.61 Mbit/s

95th percentile per-packet one-way delay: 54.158 ms

Loss rate: 0.00%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-02-27 18:08:51

End at: 2018-02-27 18:09:21

Below is generated by plot.py at 2018-02-27 21:35:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 30.77 Mbit/s

95th percentile per-packet one-way delay: 53.923 ms

Loss rate: 0.00%

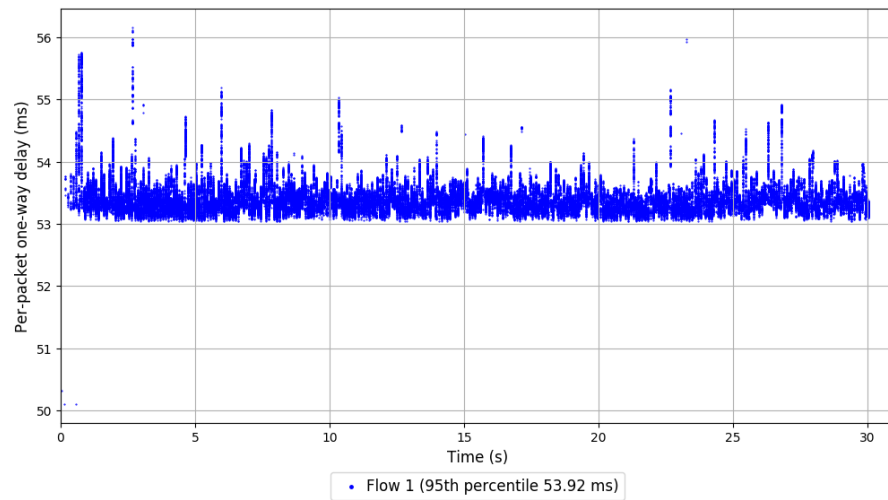
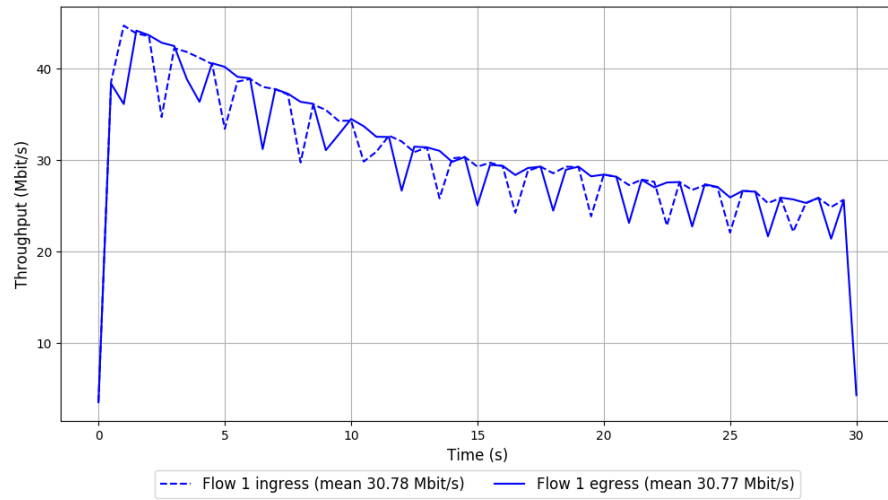
-- Flow 1:

Average throughput: 30.77 Mbit/s

95th percentile per-packet one-way delay: 53.923 ms

Loss rate: 0.00%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-02-27 18:23:17

End at: 2018-02-27 18:23:47

Below is generated by plot.py at 2018-02-27 21:35:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 30.50 Mbit/s

95th percentile per-packet one-way delay: 53.983 ms

Loss rate: 0.00%

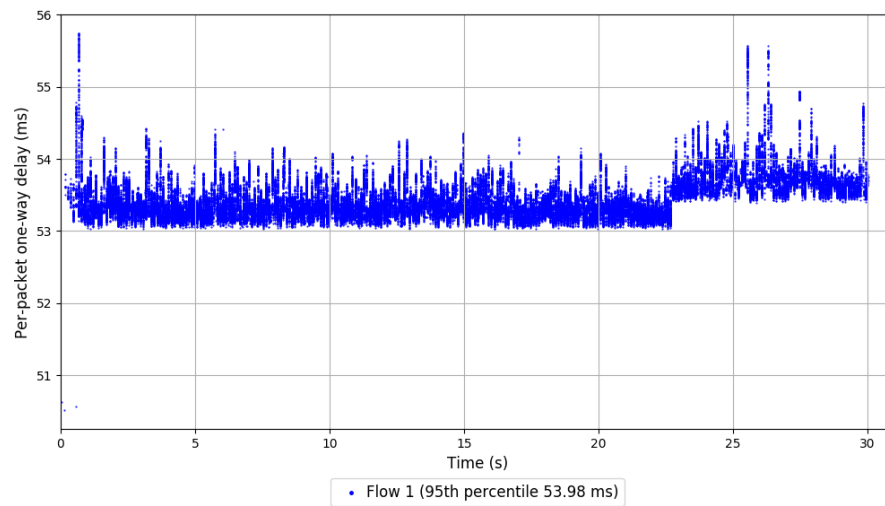
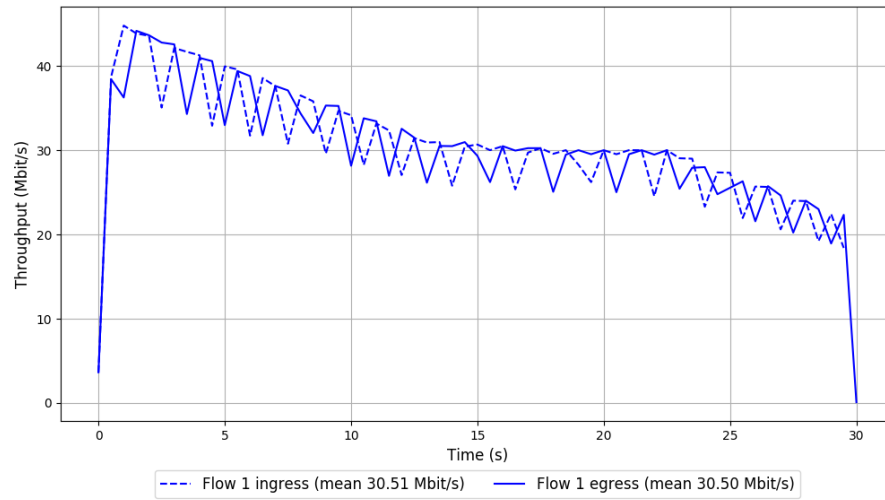
-- Flow 1:

Average throughput: 30.50 Mbit/s

95th percentile per-packet one-way delay: 53.983 ms

Loss rate: 0.00%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-02-27 18:38:06

End at: 2018-02-27 18:38:36

Below is generated by plot.py at 2018-02-27 21:35:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 32.66 Mbit/s

95th percentile per-packet one-way delay: 54.109 ms

Loss rate: 0.00%

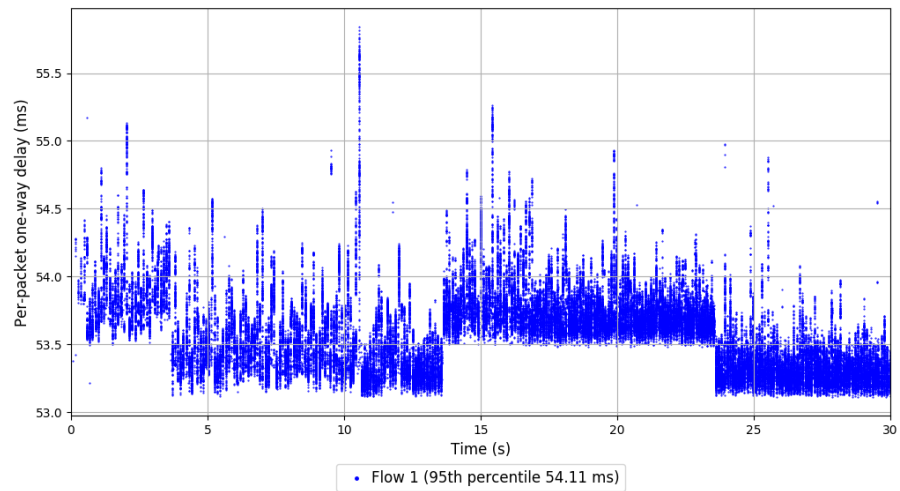
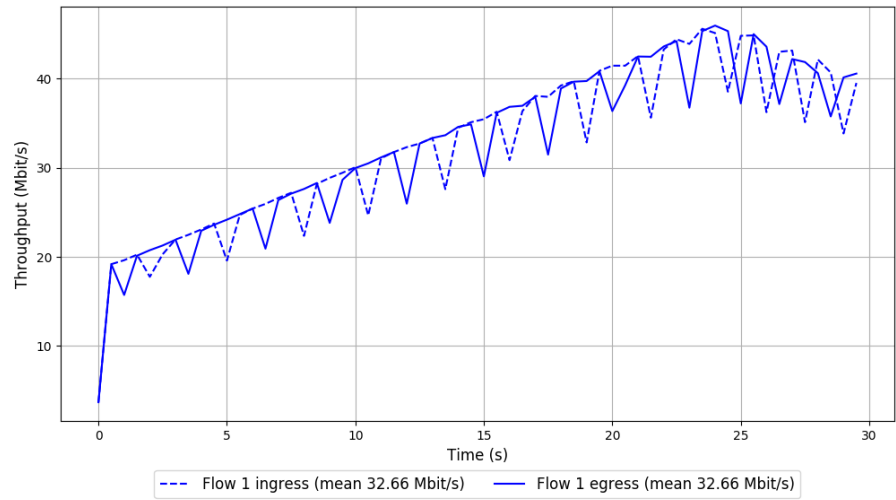
-- Flow 1:

Average throughput: 32.66 Mbit/s

95th percentile per-packet one-way delay: 54.109 ms

Loss rate: 0.00%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-02-27 18:52:54

End at: 2018-02-27 18:53:24

Below is generated by plot.py at 2018-02-27 21:36:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 216.15 Mbit/s

95th percentile per-packet one-way delay: 60.309 ms

Loss rate: 0.00%

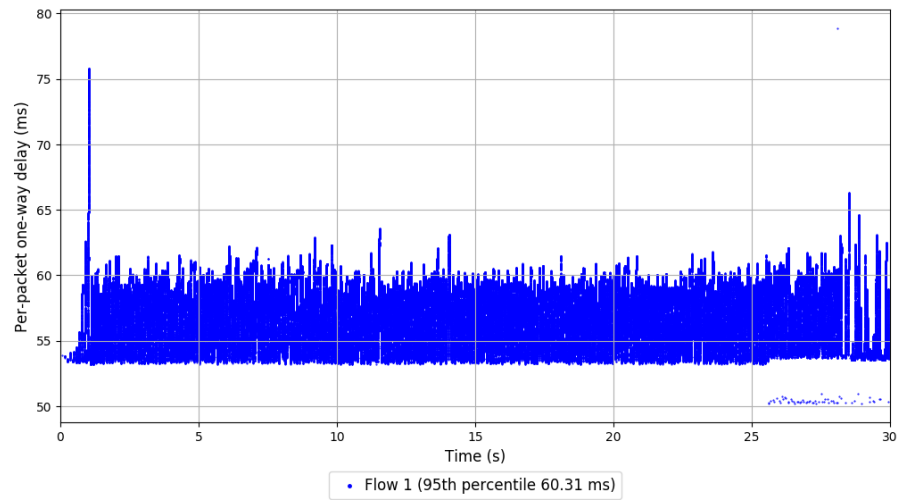
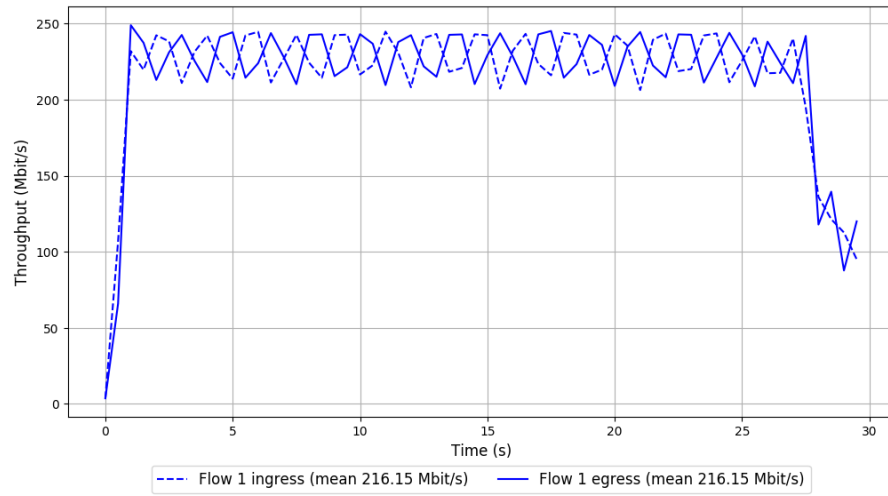
-- Flow 1:

Average throughput: 216.15 Mbit/s

95th percentile per-packet one-way delay: 60.309 ms

Loss rate: 0.00%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-02-27 19:07:45

End at: 2018-02-27 19:08:15

Below is generated by plot.py at 2018-02-27 21:36:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 28.64 Mbit/s

95th percentile per-packet one-way delay: 54.234 ms

Loss rate: 0.00%

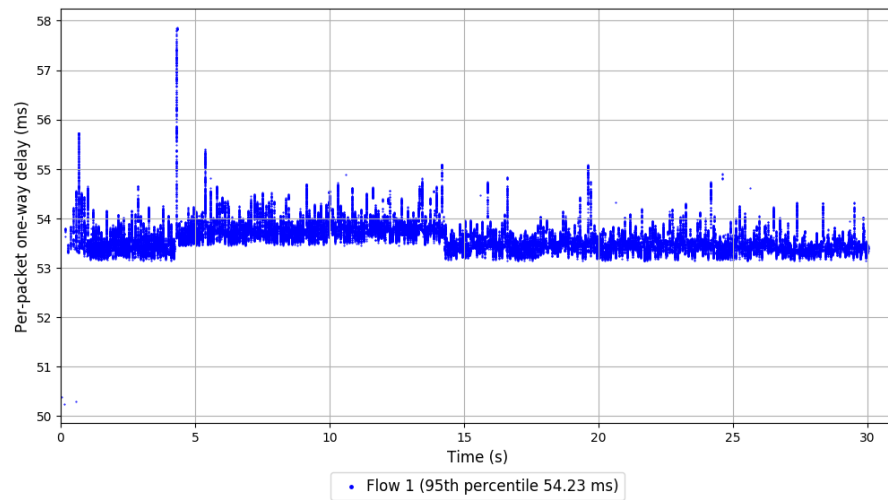
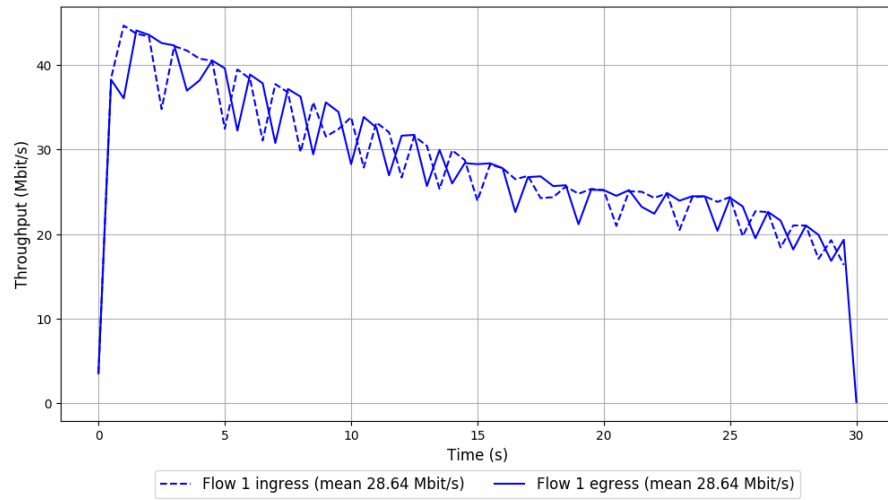
-- Flow 1:

Average throughput: 28.64 Mbit/s

95th percentile per-packet one-way delay: 54.234 ms

Loss rate: 0.00%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-02-27 19:22:24

End at: 2018-02-27 19:22:54

Below is generated by plot.py at 2018-02-27 21:36:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 182.11 Mbit/s

95th percentile per-packet one-way delay: 54.606 ms

Loss rate: 0.00%

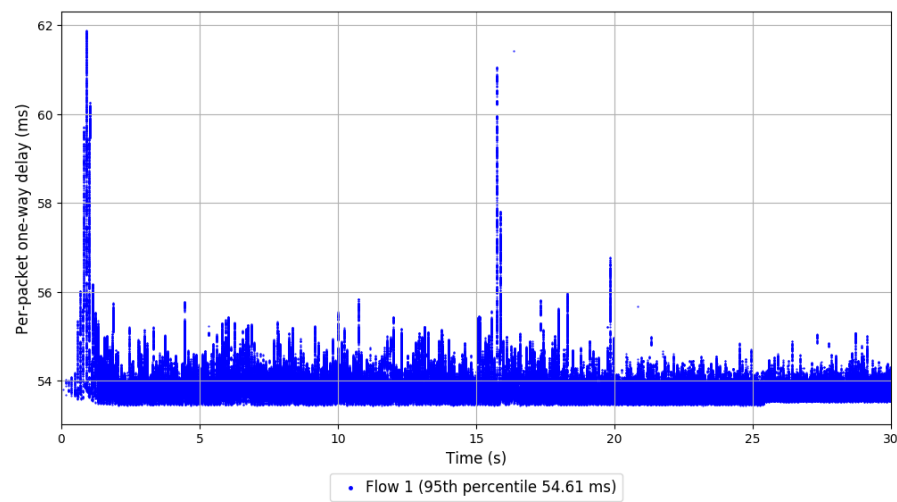
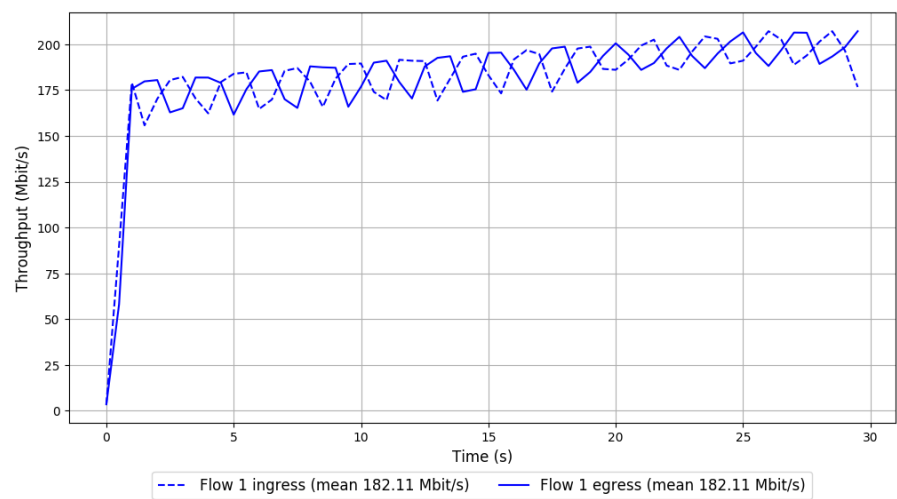
-- Flow 1:

Average throughput: 182.11 Mbit/s

95th percentile per-packet one-way delay: 54.606 ms

Loss rate: 0.00%

Run 10: Report of TCP Vegas — Data Link

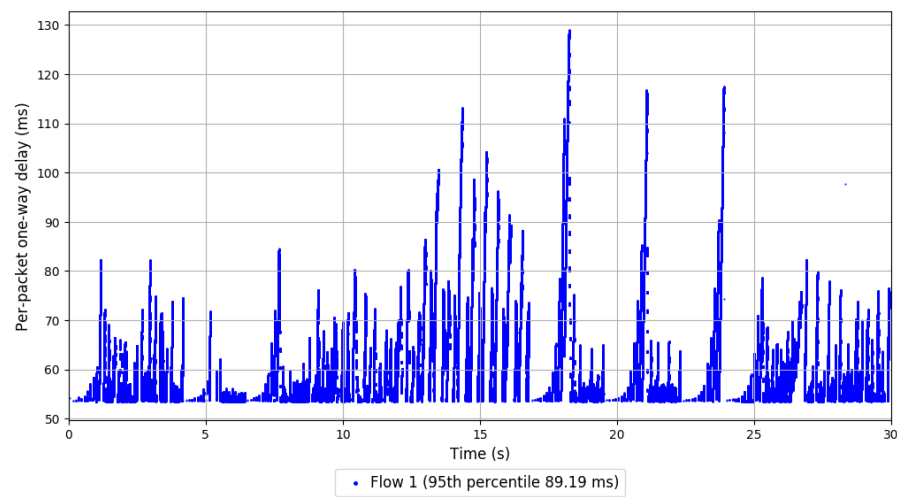
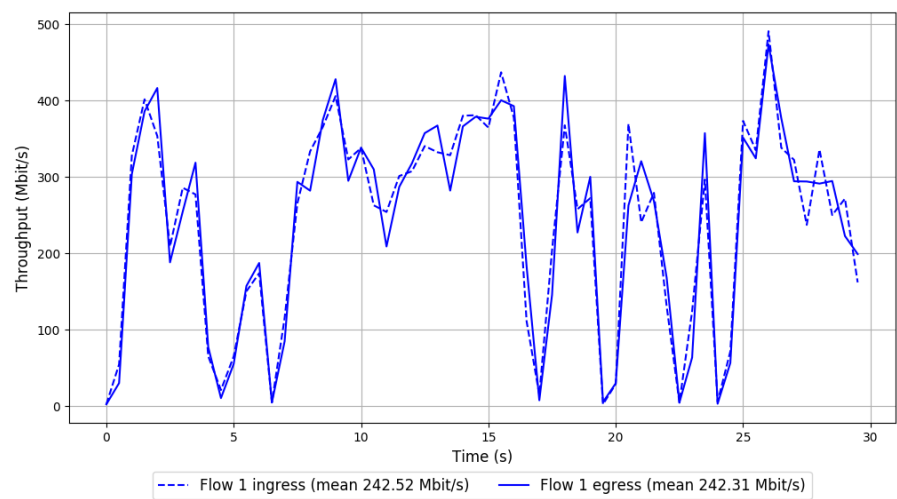


```
Run 1: Statistics of Verus

Start at: 2018-02-27 17:11:33
End at: 2018-02-27 17:12:03

# Below is generated by plot.py at 2018-02-27 21:37:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 242.31 Mbit/s
95th percentile per-packet one-way delay: 89.190 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 242.31 Mbit/s
95th percentile per-packet one-way delay: 89.190 ms
Loss rate: 0.08%
```


Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-02-27 17:26:16

End at: 2018-02-27 17:26:46

Below is generated by plot.py at 2018-02-27 21:39:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 291.71 Mbit/s

95th percentile per-packet one-way delay: 121.489 ms

Loss rate: 0.00%

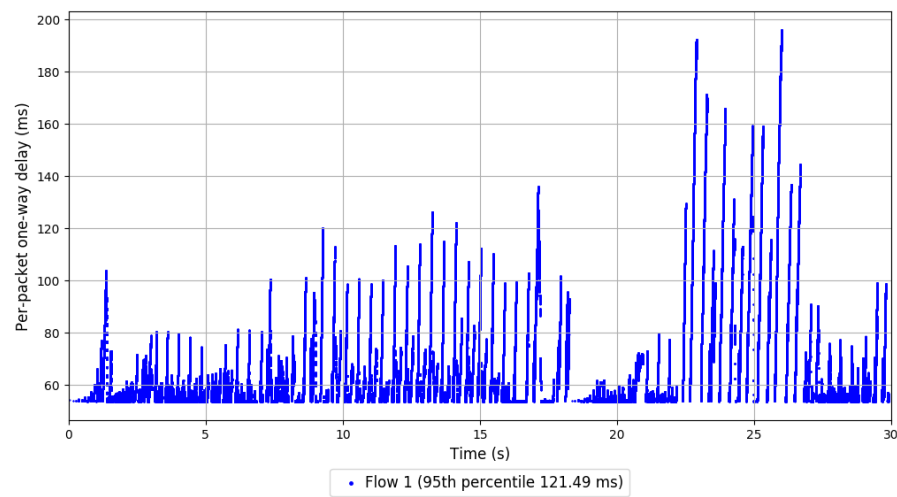
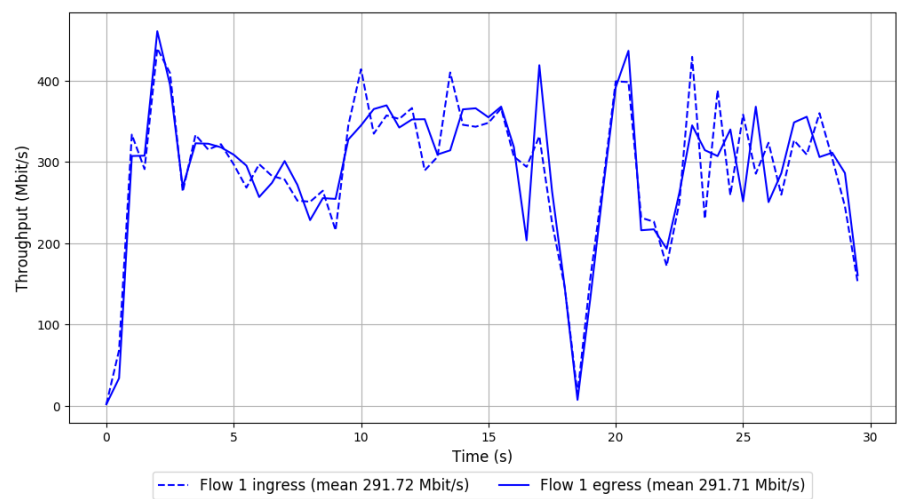
-- Flow 1:

Average throughput: 291.71 Mbit/s

95th percentile per-packet one-way delay: 121.489 ms

Loss rate: 0.00%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-02-27 17:40:58

End at: 2018-02-27 17:41:28

Below is generated by plot.py at 2018-02-27 21:39:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 257.44 Mbit/s

95th percentile per-packet one-way delay: 122.879 ms

Loss rate: 1.68%

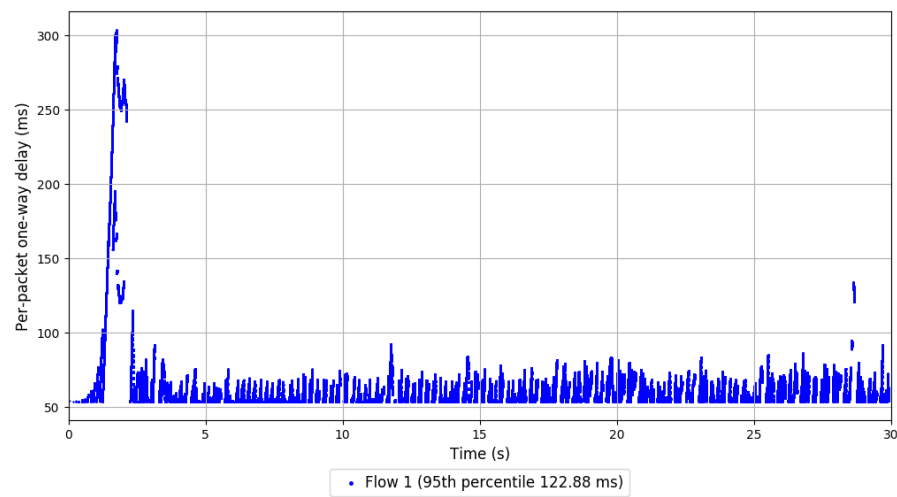
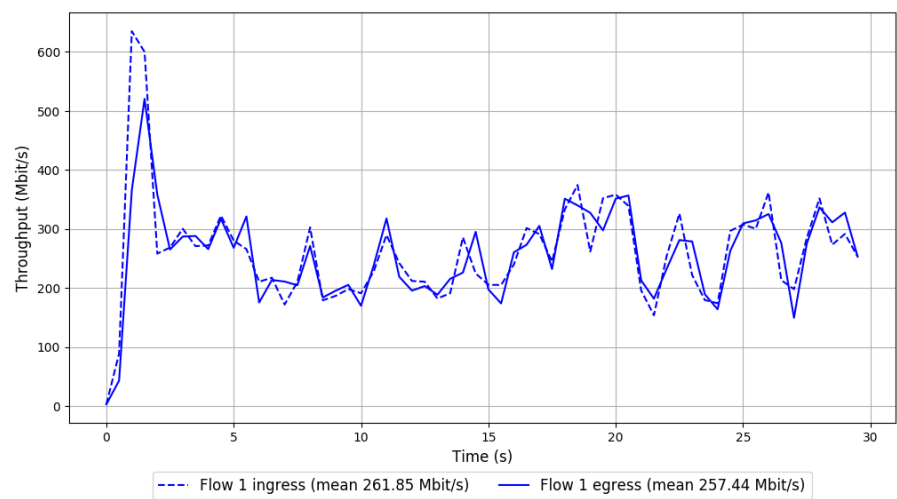
-- Flow 1:

Average throughput: 257.44 Mbit/s

95th percentile per-packet one-way delay: 122.879 ms

Loss rate: 1.68%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-02-27 17:55:39

End at: 2018-02-27 17:56:09

Below is generated by plot.py at 2018-02-27 21:39:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 255.13 Mbit/s

95th percentile per-packet one-way delay: 85.225 ms

Loss rate: 0.00%

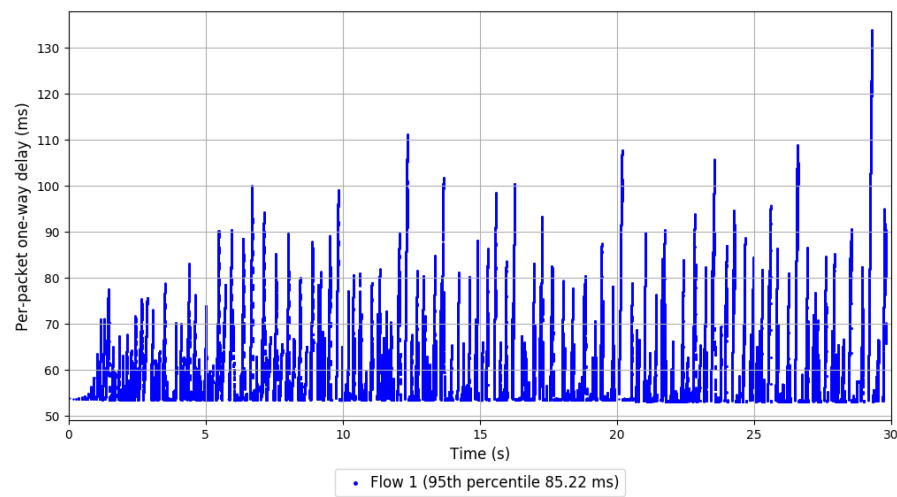
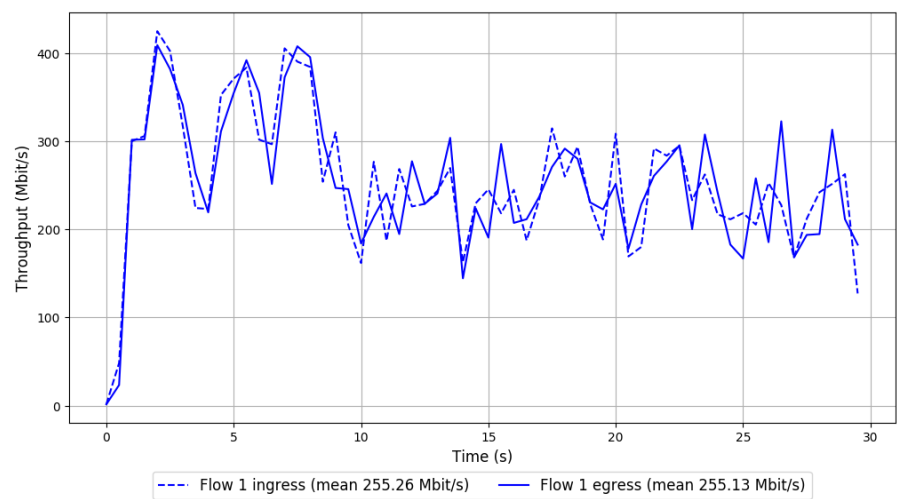
-- Flow 1:

Average throughput: 255.13 Mbit/s

95th percentile per-packet one-way delay: 85.225 ms

Loss rate: 0.00%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-02-27 18:10:08

End at: 2018-02-27 18:10:38

Below is generated by plot.py at 2018-02-27 21:40:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 266.41 Mbit/s

95th percentile per-packet one-way delay: 108.207 ms

Loss rate: 0.00%

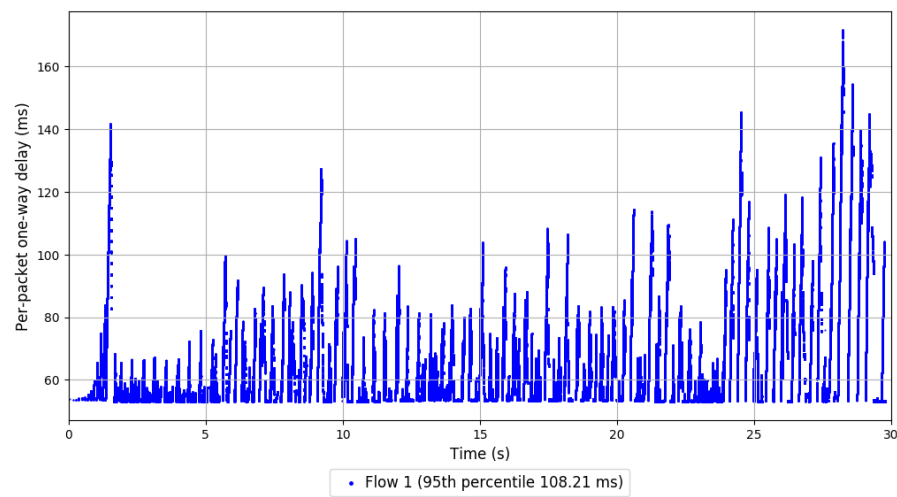
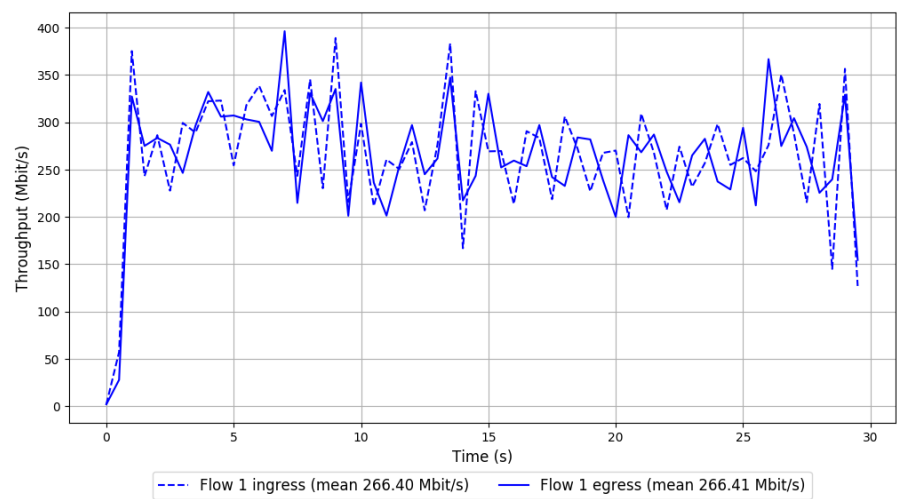
-- Flow 1:

Average throughput: 266.41 Mbit/s

95th percentile per-packet one-way delay: 108.207 ms

Loss rate: 0.00%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-02-27 18:24:34

End at: 2018-02-27 18:25:04

Below is generated by plot.py at 2018-02-27 21:41:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 315.42 Mbit/s

95th percentile per-packet one-way delay: 134.337 ms

Loss rate: 0.09%

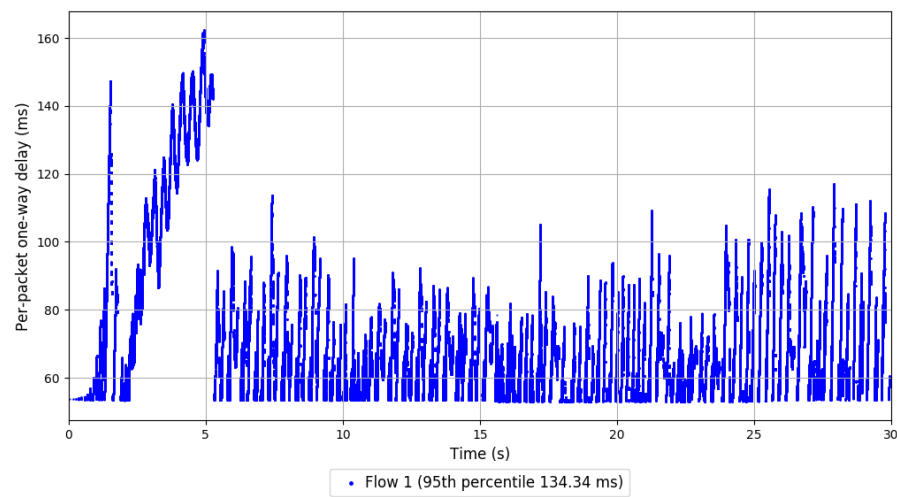
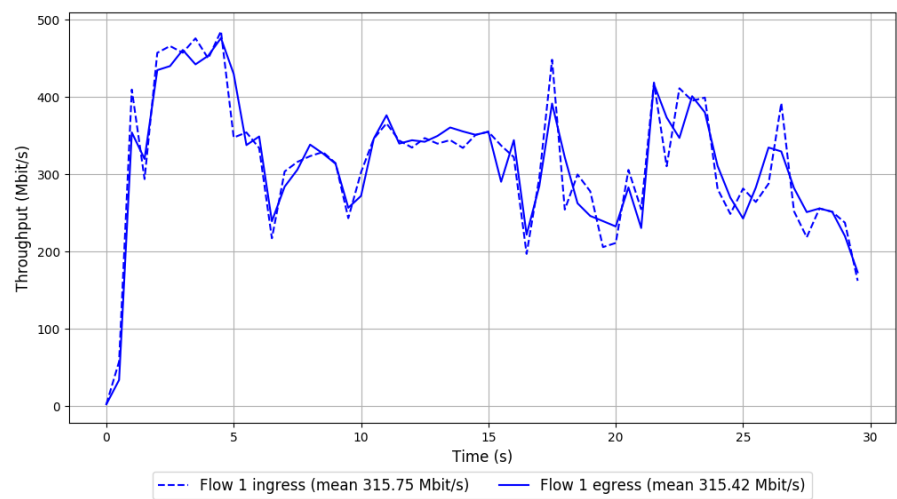
-- Flow 1:

Average throughput: 315.42 Mbit/s

95th percentile per-packet one-way delay: 134.337 ms

Loss rate: 0.09%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-02-27 18:39:23

End at: 2018-02-27 18:39:53

Below is generated by plot.py at 2018-02-27 21:41:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 313.74 Mbit/s

95th percentile per-packet one-way delay: 202.278 ms

Loss rate: 0.07%

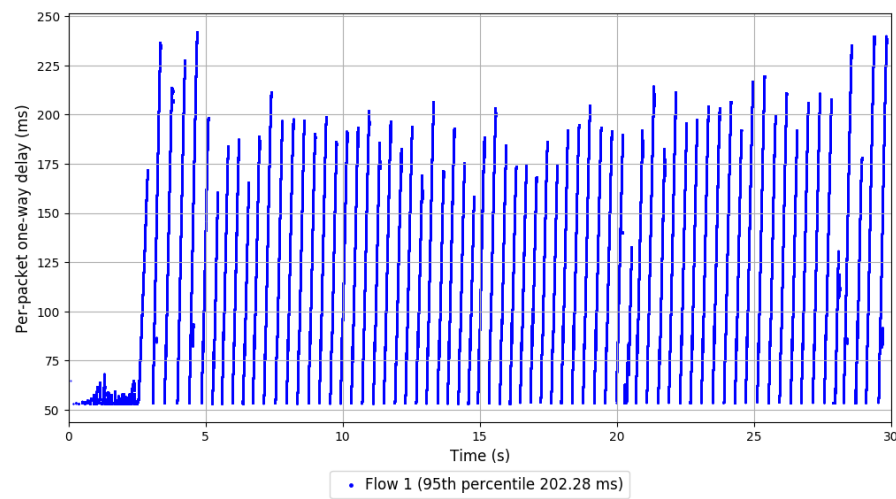
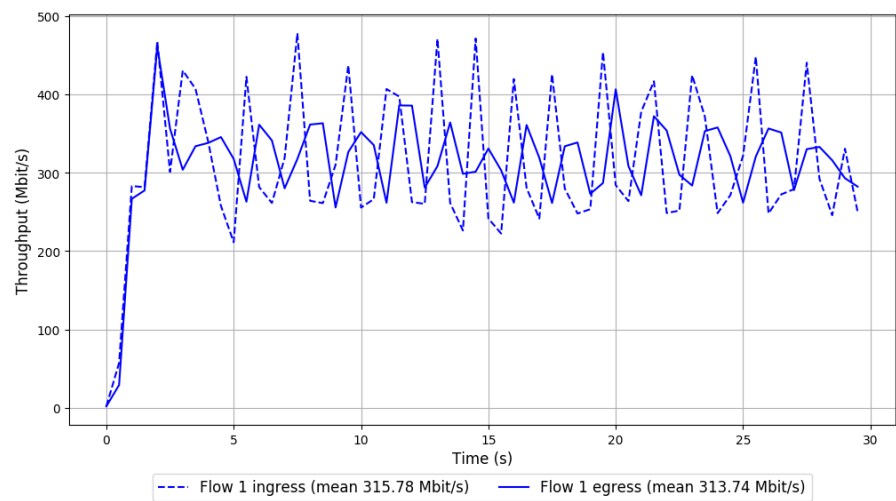
-- Flow 1:

Average throughput: 313.74 Mbit/s

95th percentile per-packet one-way delay: 202.278 ms

Loss rate: 0.07%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-02-27 18:54:20

End at: 2018-02-27 18:54:50

Below is generated by plot.py at 2018-02-27 21:41:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 286.60 Mbit/s

95th percentile per-packet one-way delay: 97.316 ms

Loss rate: 0.00%

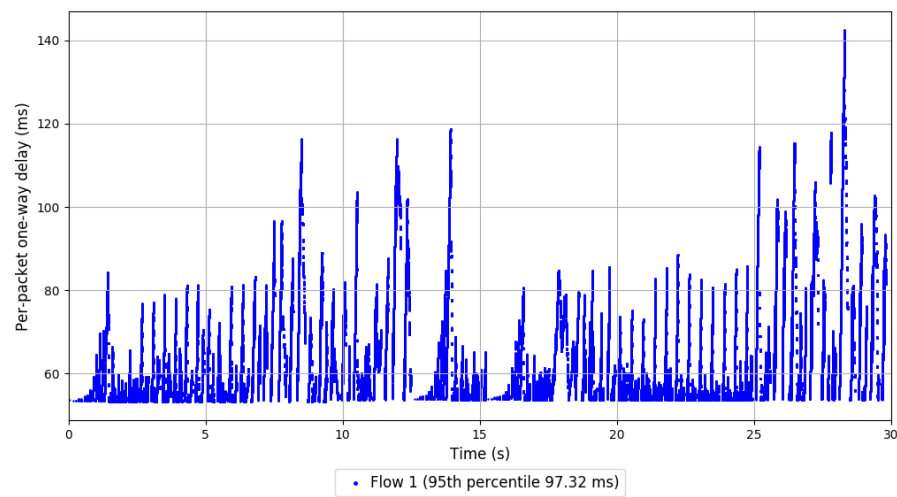
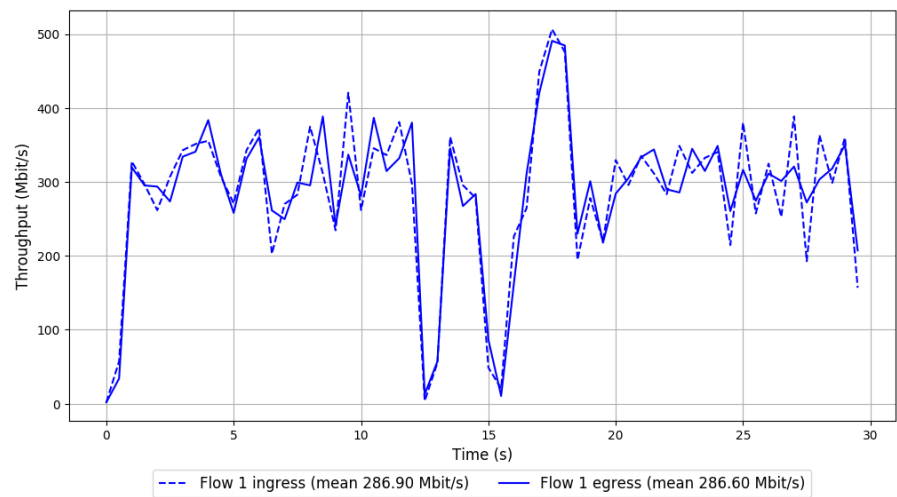
-- Flow 1:

Average throughput: 286.60 Mbit/s

95th percentile per-packet one-way delay: 97.316 ms

Loss rate: 0.00%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-02-27 19:09:02

End at: 2018-02-27 19:09:32

Below is generated by plot.py at 2018-02-27 21:42:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 254.12 Mbit/s

95th percentile per-packet one-way delay: 95.426 ms

Loss rate: 0.17%

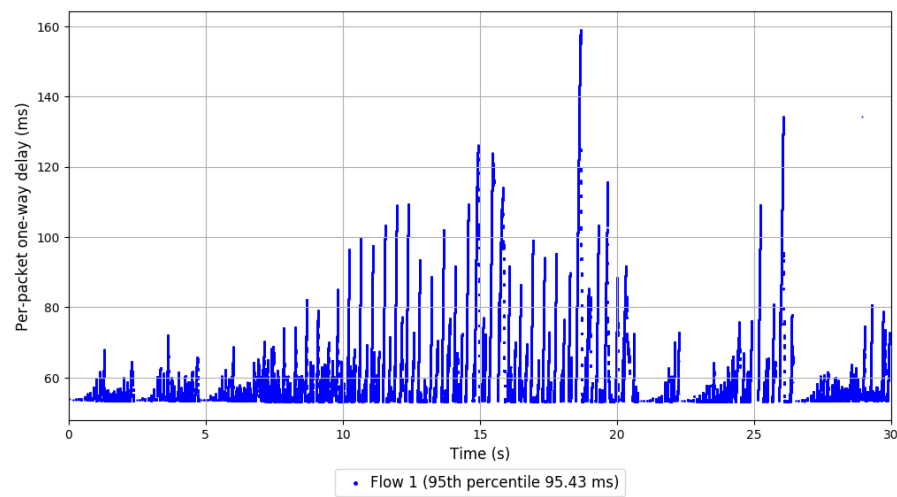
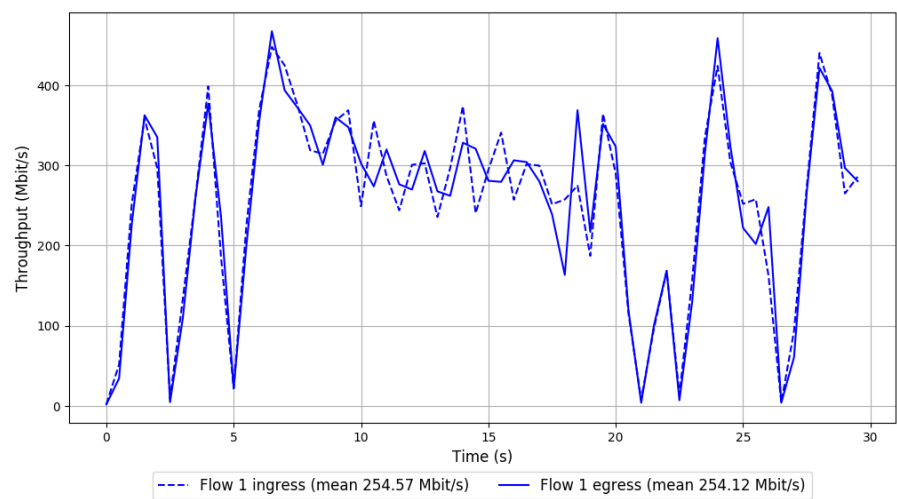
-- Flow 1:

Average throughput: 254.12 Mbit/s

95th percentile per-packet one-way delay: 95.426 ms

Loss rate: 0.17%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-02-27 19:23:48

End at: 2018-02-27 19:24:18

Below is generated by plot.py at 2018-02-27 21:43:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 251.61 Mbit/s

95th percentile per-packet one-way delay: 192.215 ms

Loss rate: 2.20%

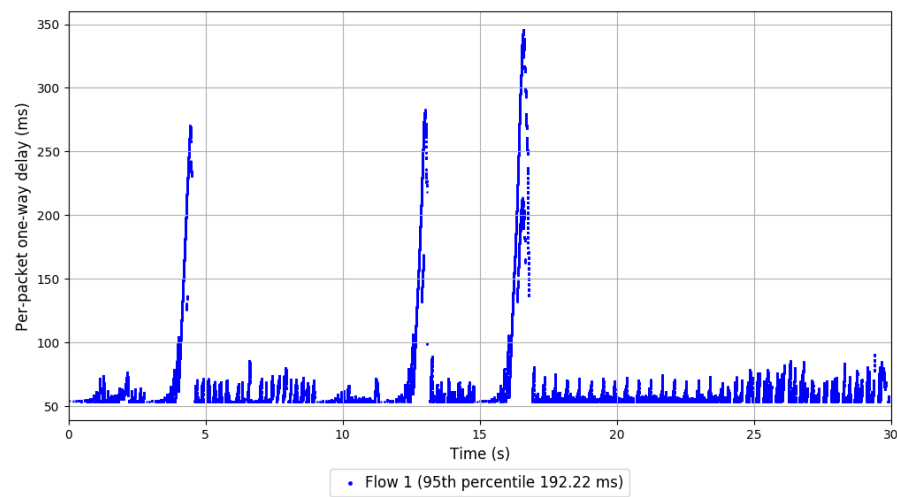
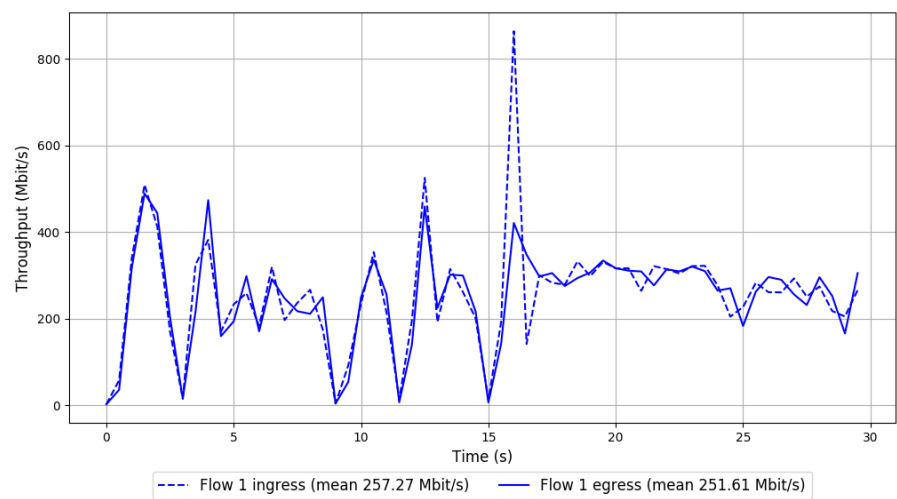
-- Flow 1:

Average throughput: 251.61 Mbit/s

95th percentile per-packet one-way delay: 192.215 ms

Loss rate: 2.20%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2018-02-27 17:02:59

End at: 2018-02-27 17:03:29

Below is generated by plot.py at 2018-02-27 21:43:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 99.29 Mbit/s

95th percentile per-packet one-way delay: 53.573 ms

Loss rate: 0.00%

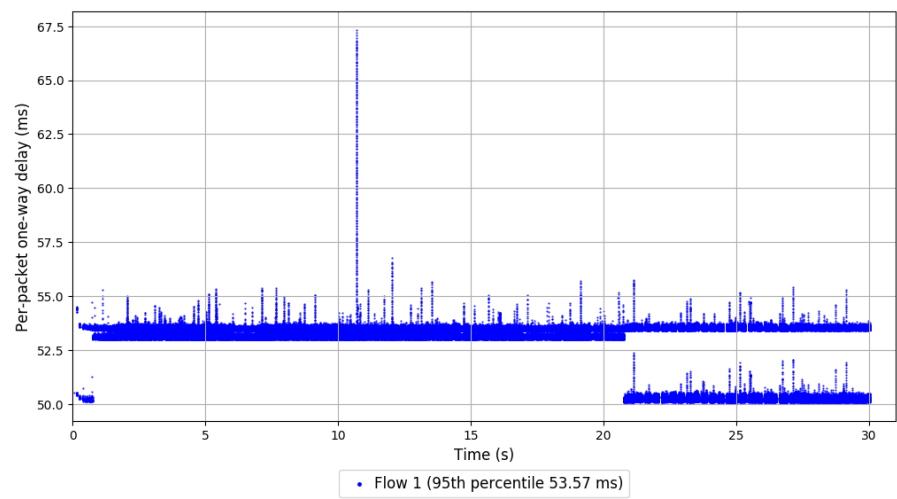
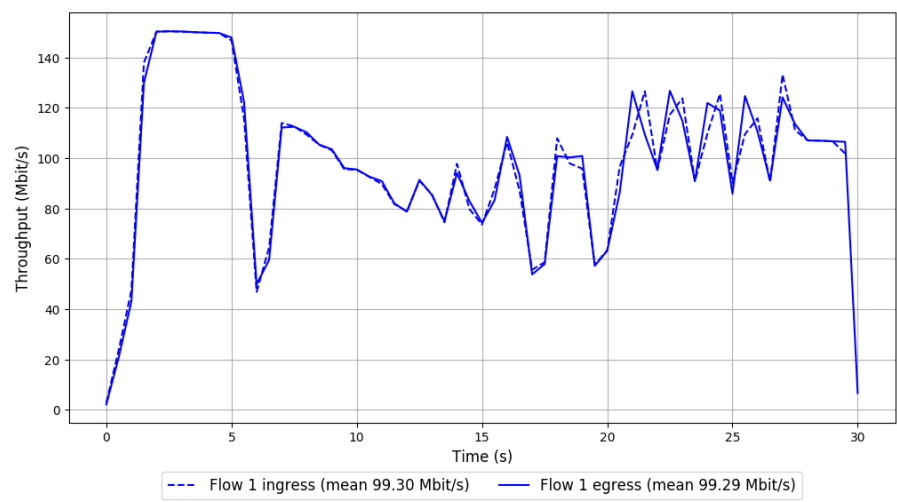
-- Flow 1:

Average throughput: 99.29 Mbit/s

95th percentile per-packet one-way delay: 53.573 ms

Loss rate: 0.00%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-02-27 17:17:22

End at: 2018-02-27 17:17:52

Below is generated by plot.py at 2018-02-27 21:52:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 336.65 Mbit/s

95th percentile per-packet one-way delay: 250.091 ms

Loss rate: 42.30%

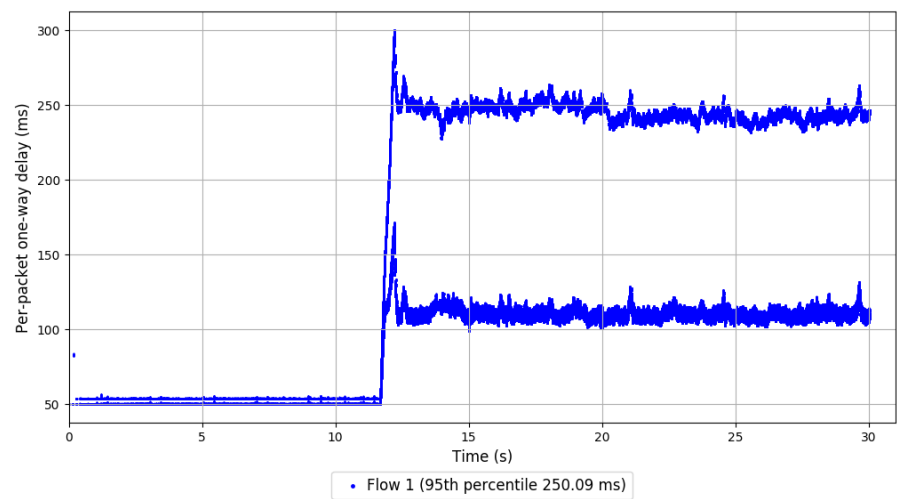
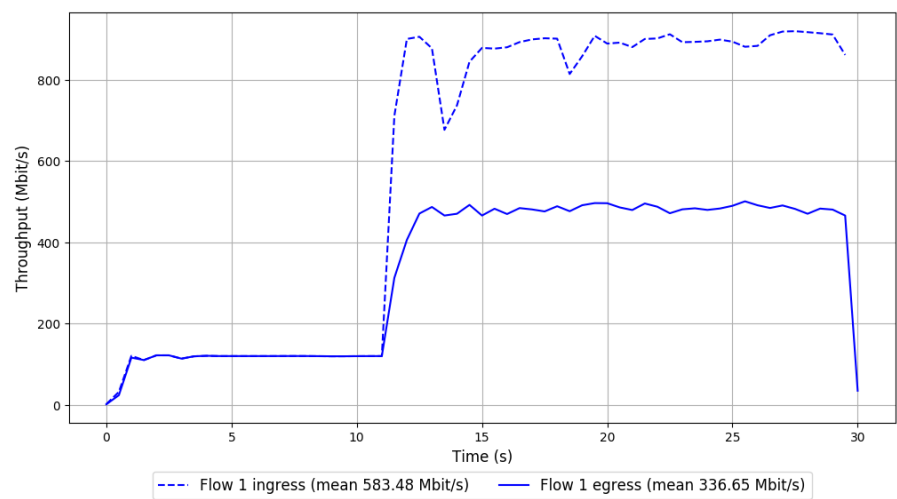
-- Flow 1:

Average throughput: 336.65 Mbit/s

95th percentile per-packet one-way delay: 250.091 ms

Loss rate: 42.30%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-02-27 17:32:08

End at: 2018-02-27 17:32:38

Below is generated by plot.py at 2018-02-27 21:52:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 311.93 Mbit/s

95th percentile per-packet one-way delay: 256.889 ms

Loss rate: 39.18%

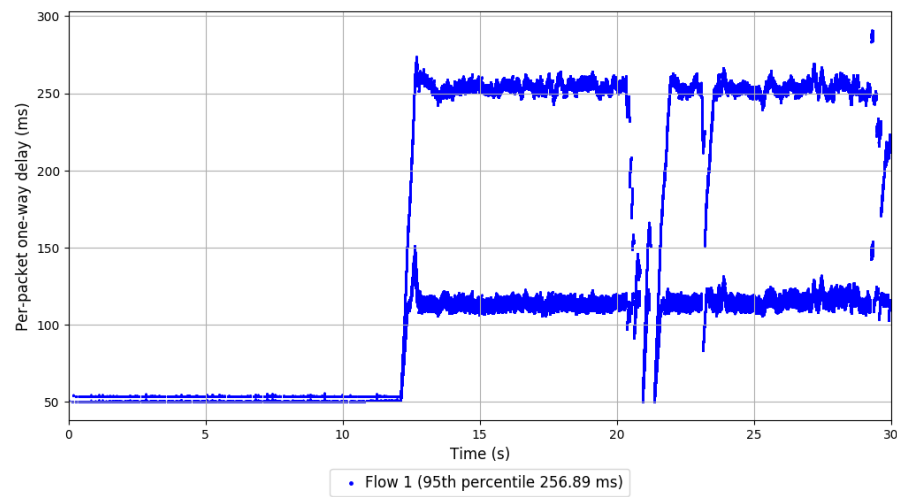
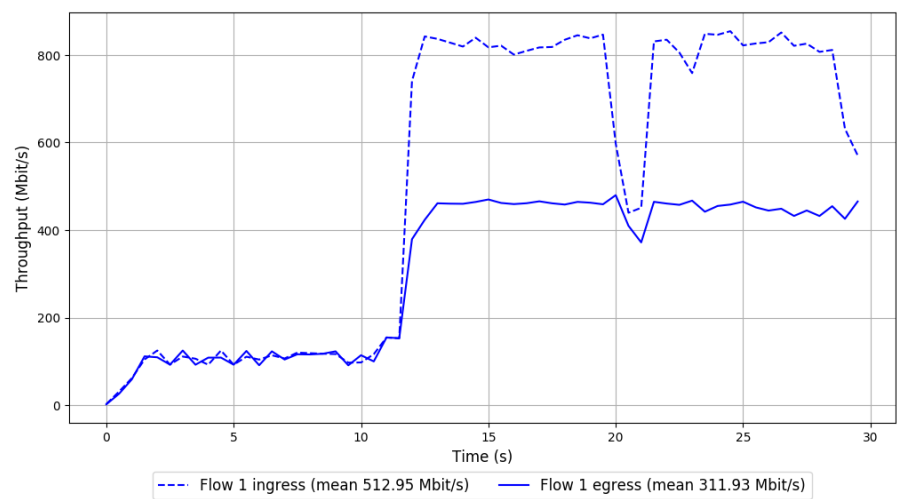
-- Flow 1:

Average throughput: 311.93 Mbit/s

95th percentile per-packet one-way delay: 256.889 ms

Loss rate: 39.18%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-02-27 17:46:52

End at: 2018-02-27 17:47:22

Below is generated by plot.py at 2018-02-27 21:52:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 107.93 Mbit/s

95th percentile per-packet one-way delay: 53.586 ms

Loss rate: 0.00%

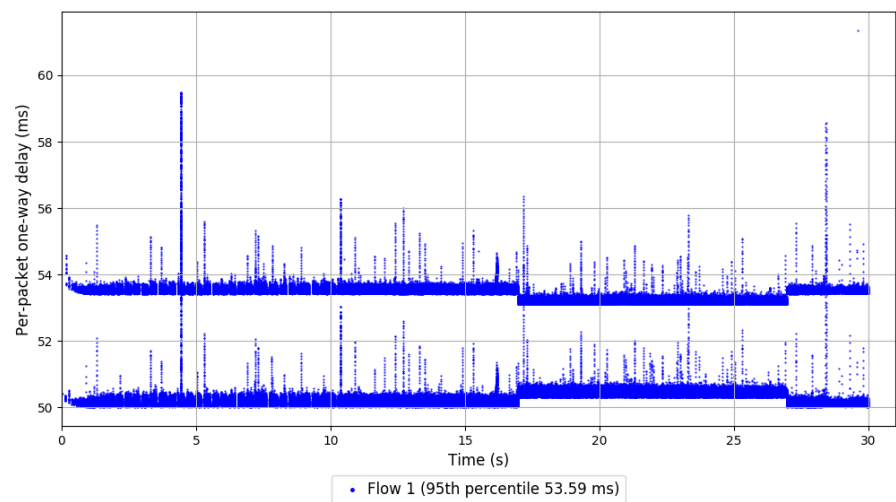
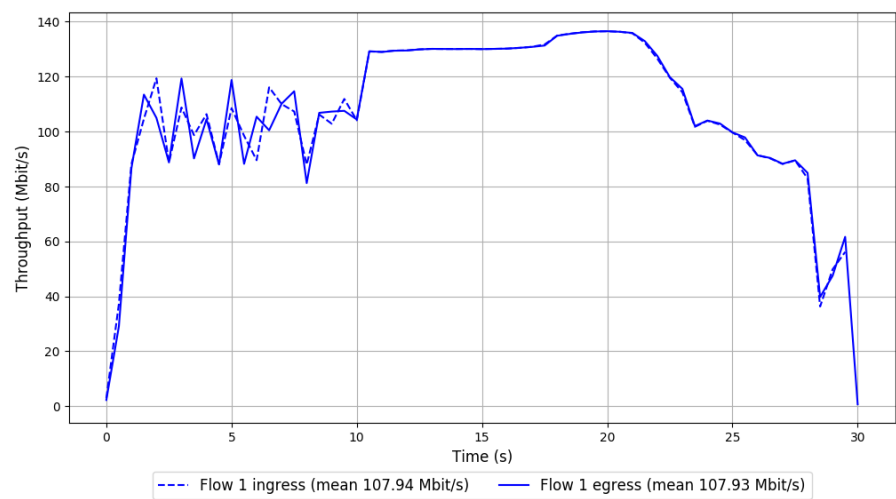
-- Flow 1:

Average throughput: 107.93 Mbit/s

95th percentile per-packet one-way delay: 53.586 ms

Loss rate: 0.00%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-02-27 18:01:34

End at: 2018-02-27 18:02:04

Below is generated by plot.py at 2018-02-27 21:52:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 136.26 Mbit/s

95th percentile per-packet one-way delay: 239.593 ms

Loss rate: 11.53%

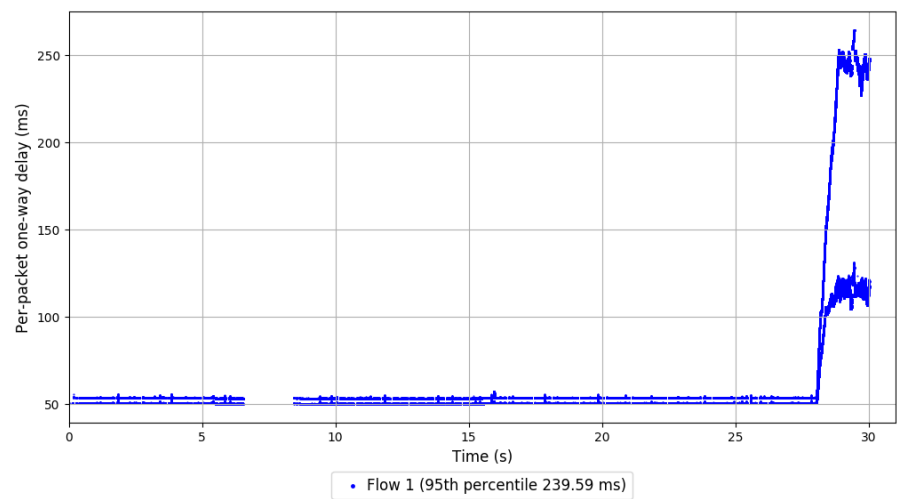
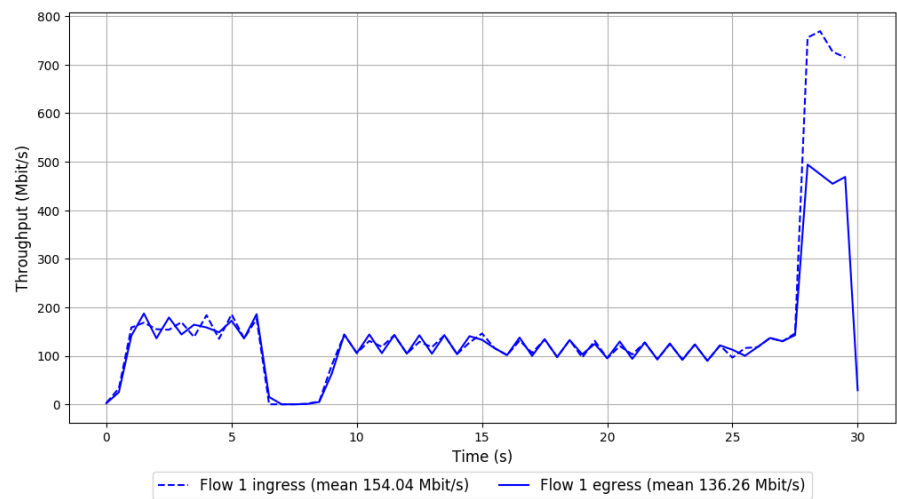
-- Flow 1:

Average throughput: 136.26 Mbit/s

95th percentile per-packet one-way delay: 239.593 ms

Loss rate: 11.53%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-02-27 18:16:02

End at: 2018-02-27 18:16:32

Below is generated by plot.py at 2018-02-27 21:52:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 106.85 Mbit/s

95th percentile per-packet one-way delay: 53.550 ms

Loss rate: 0.00%

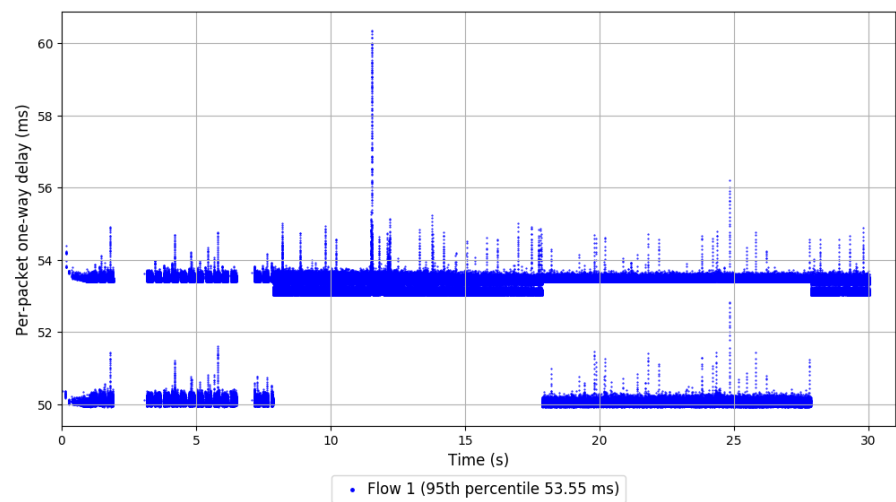
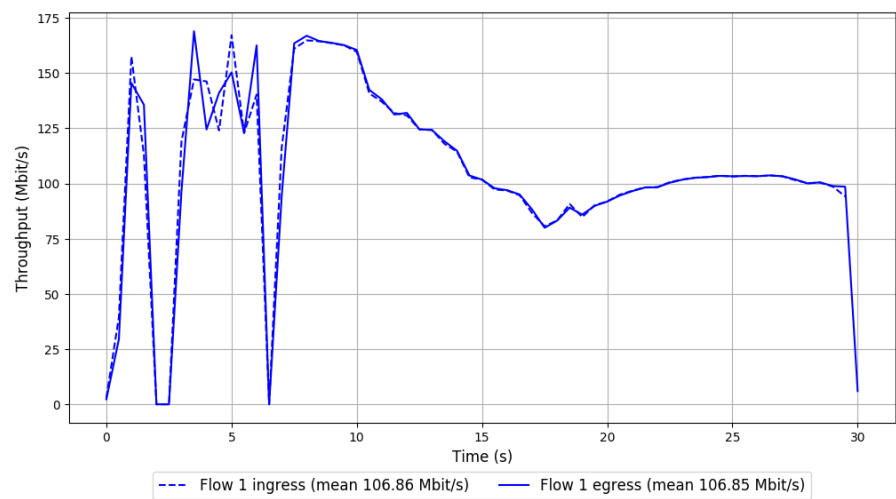
-- Flow 1:

Average throughput: 106.85 Mbit/s

95th percentile per-packet one-way delay: 53.550 ms

Loss rate: 0.00%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-02-27 18:30:34

End at: 2018-02-27 18:31:04

Below is generated by plot.py at 2018-02-27 21:52:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 195.22 Mbit/s

95th percentile per-packet one-way delay: 262.216 ms

Loss rate: 25.45%

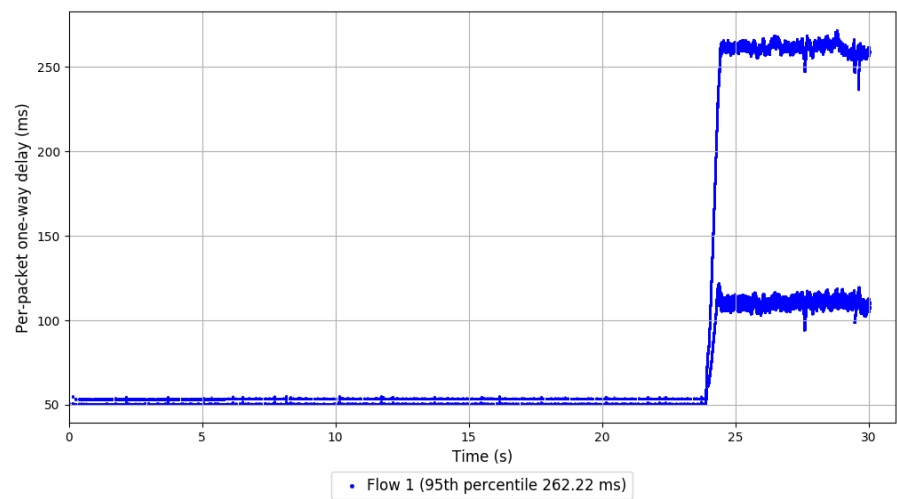
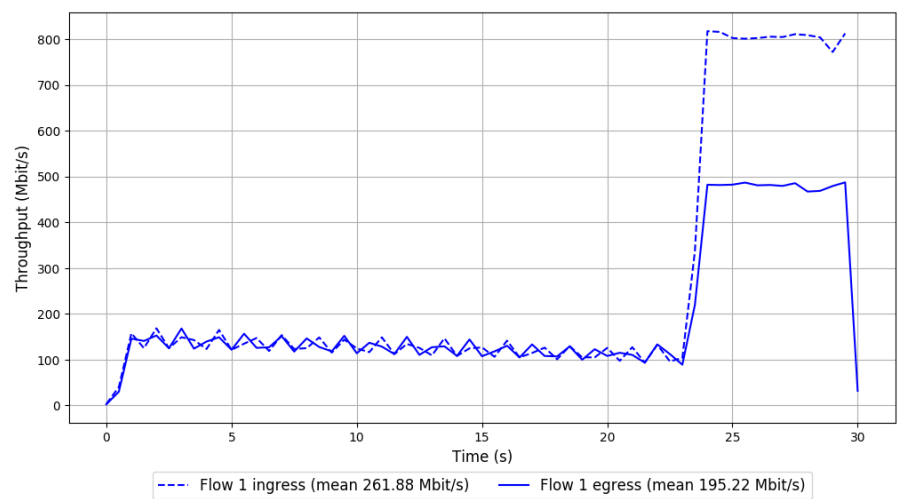
-- Flow 1:

Average throughput: 195.22 Mbit/s

95th percentile per-packet one-way delay: 262.216 ms

Loss rate: 25.45%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-02-27 18:45:22

End at: 2018-02-27 18:45:52

Below is generated by plot.py at 2018-02-27 21:55:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 356.93 Mbit/s

95th percentile per-packet one-way delay: 264.909 ms

Loss rate: 39.88%

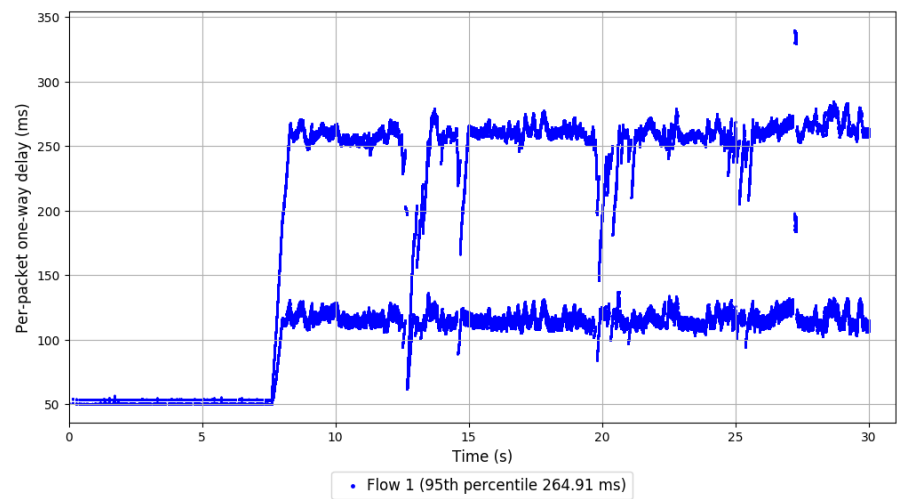
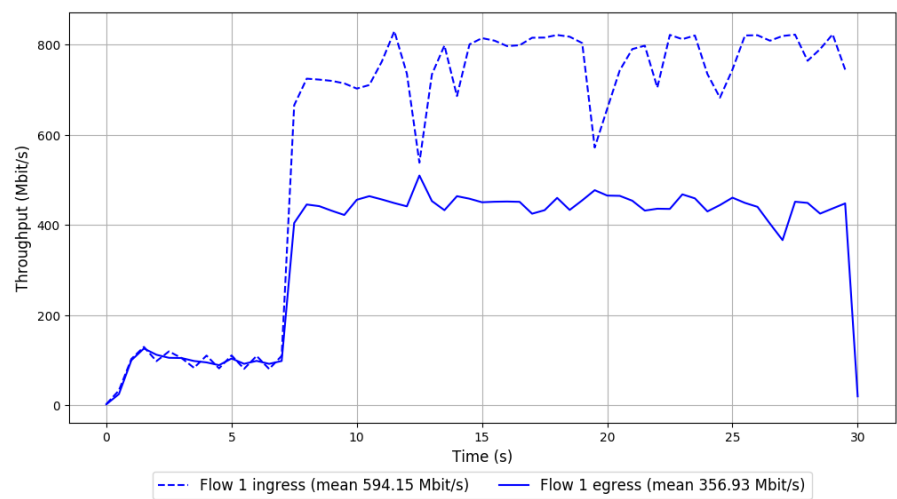
-- Flow 1:

Average throughput: 356.93 Mbit/s

95th percentile per-packet one-way delay: 264.909 ms

Loss rate: 39.88%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-02-27 19:00:18

End at: 2018-02-27 19:00:48

Below is generated by plot.py at 2018-02-27 21:55:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 151.29 Mbit/s

95th percentile per-packet one-way delay: 53.679 ms

Loss rate: 0.00%

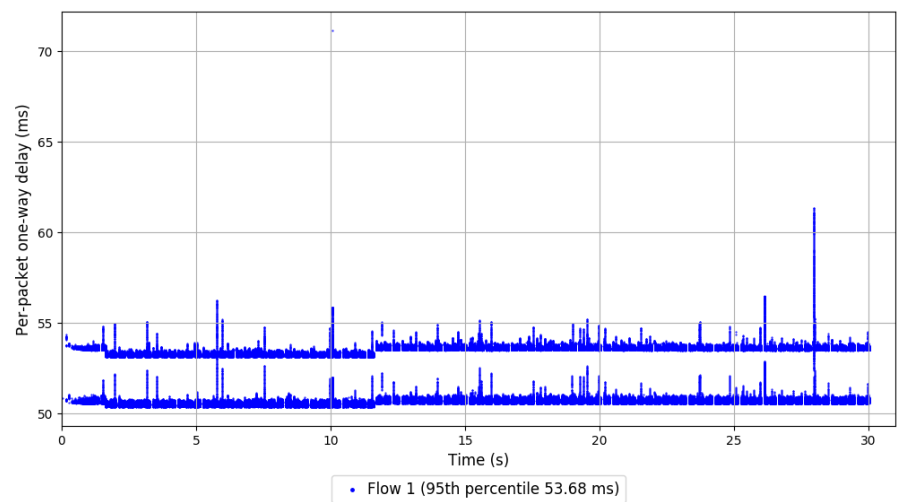
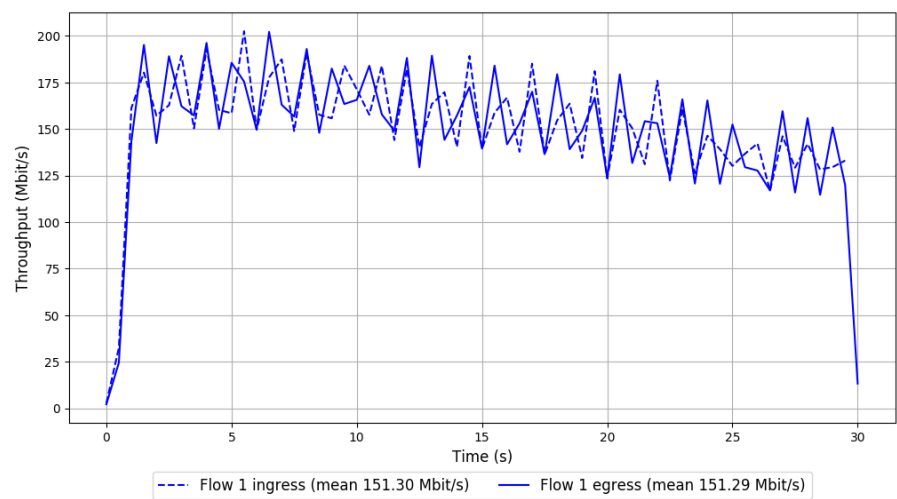
-- Flow 1:

Average throughput: 151.29 Mbit/s

95th percentile per-packet one-way delay: 53.679 ms

Loss rate: 0.00%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-02-27 19:14:54

End at: 2018-02-27 19:15:24

Below is generated by plot.py at 2018-02-27 21:55:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 125.19 Mbit/s

95th percentile per-packet one-way delay: 53.607 ms

Loss rate: 0.00%

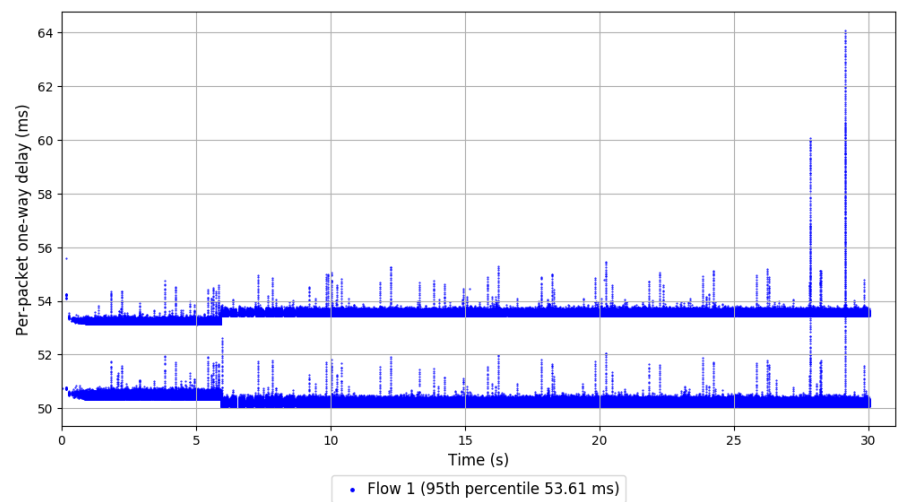
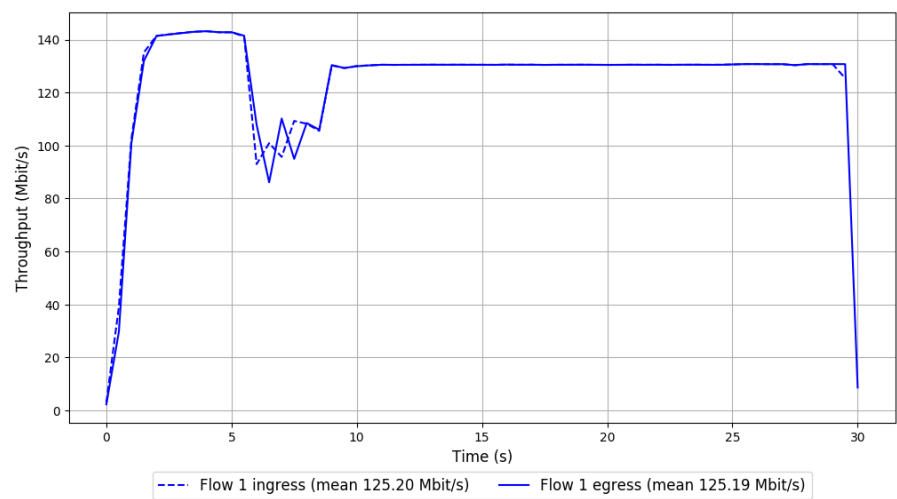
-- Flow 1:

Average throughput: 125.19 Mbit/s

95th percentile per-packet one-way delay: 53.607 ms

Loss rate: 0.00%

Run 10: Report of Copa — Data Link



Run 1: Statistics of FillP

Start at: 2018-02-27 17:00:23

End at: 2018-02-27 17:00:53

Below is generated by plot.py at 2018-02-27 22:01:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 887.23 Mbit/s

95th percentile per-packet one-way delay: 148.143 ms

Loss rate: 7.28%

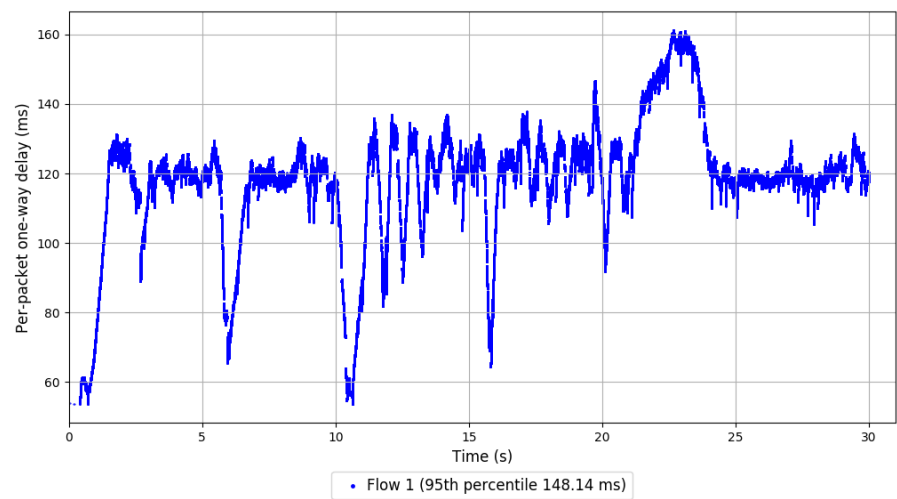
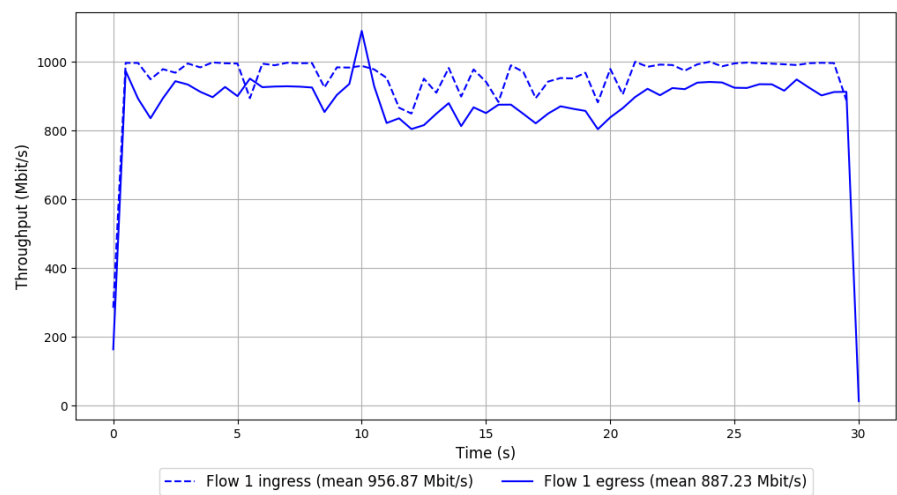
-- Flow 1:

Average throughput: 887.23 Mbit/s

95th percentile per-packet one-way delay: 148.143 ms

Loss rate: 7.28%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-02-27 17:14:49

End at: 2018-02-27 17:15:19

Below is generated by plot.py at 2018-02-27 22:02:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 853.44 Mbit/s

95th percentile per-packet one-way delay: 136.179 ms

Loss rate: 8.25%

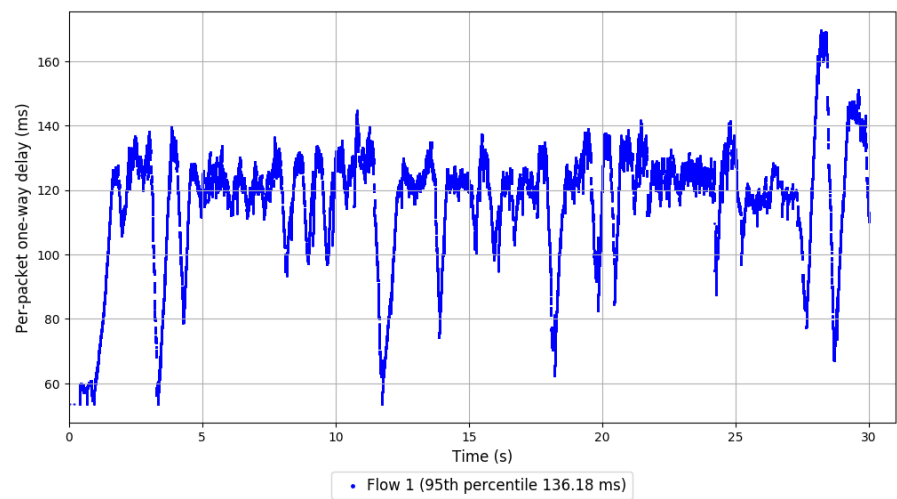
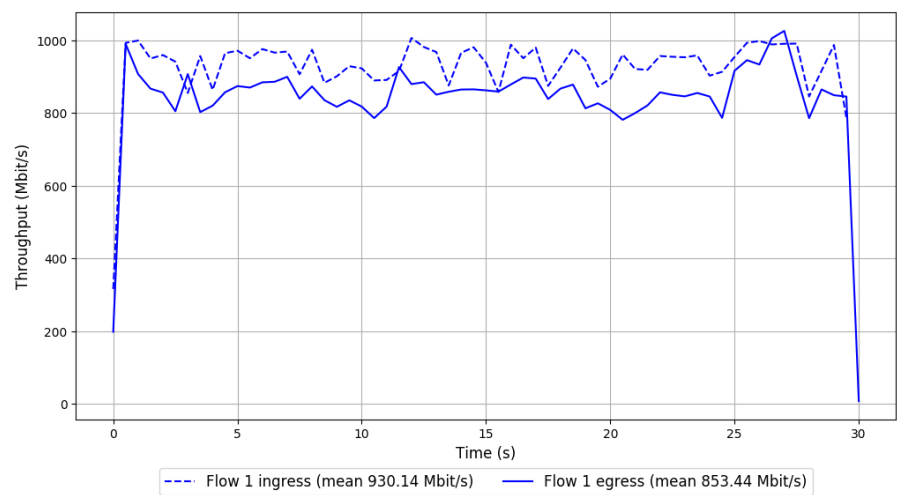
-- Flow 1:

Average throughput: 853.44 Mbit/s

95th percentile per-packet one-way delay: 136.179 ms

Loss rate: 8.25%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-02-27 17:29:35

End at: 2018-02-27 17:30:05

Below is generated by plot.py at 2018-02-27 22:04:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 869.76 Mbit/s

95th percentile per-packet one-way delay: 126.934 ms

Loss rate: 7.45%

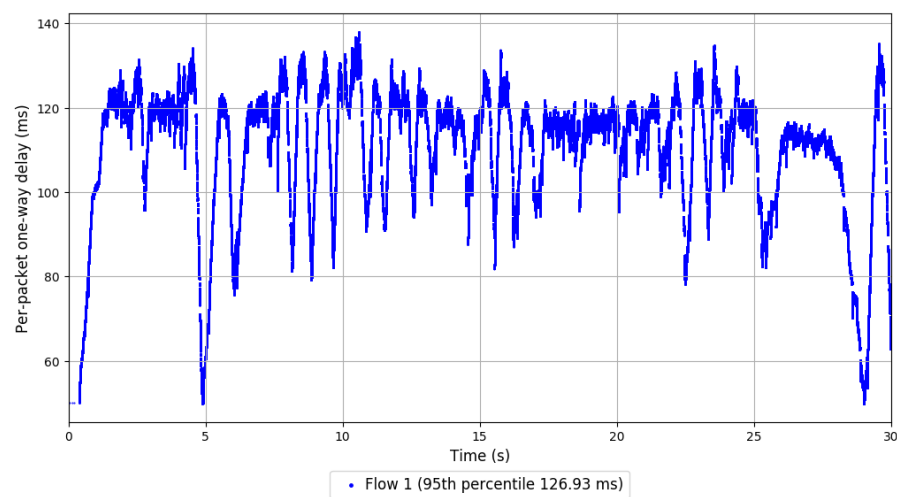
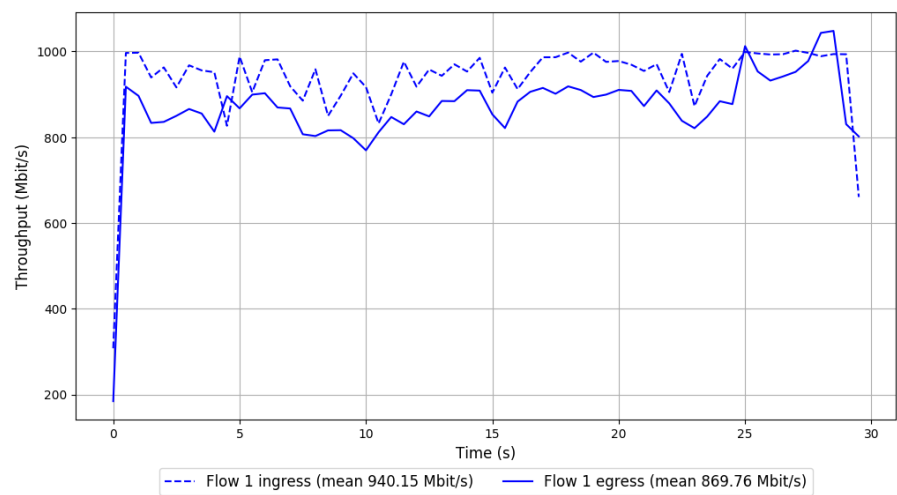
-- Flow 1:

Average throughput: 869.76 Mbit/s

95th percentile per-packet one-way delay: 126.934 ms

Loss rate: 7.45%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-02-27 17:44:17

End at: 2018-02-27 17:44:47

Below is generated by plot.py at 2018-02-27 22:05:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 912.50 Mbit/s

95th percentile per-packet one-way delay: 122.011 ms

Loss rate: 5.63%

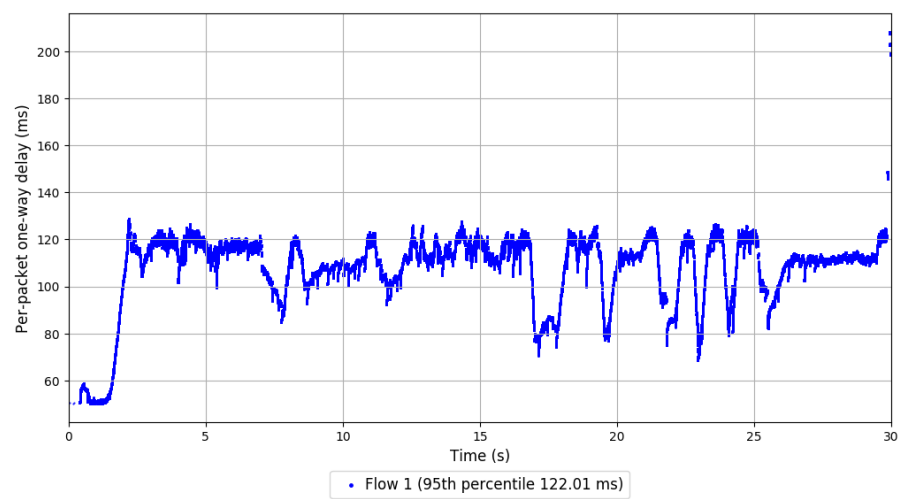
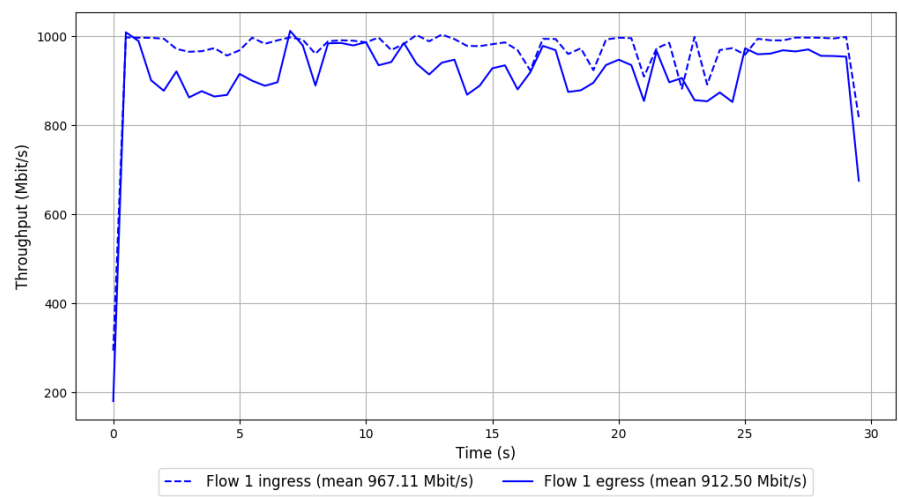
-- Flow 1:

Average throughput: 912.50 Mbit/s

95th percentile per-packet one-way delay: 122.011 ms

Loss rate: 5.63%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-02-27 17:58:59

End at: 2018-02-27 17:59:29

Below is generated by plot.py at 2018-02-27 22:05:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 851.94 Mbit/s

95th percentile per-packet one-way delay: 171.232 ms

Loss rate: 8.94%

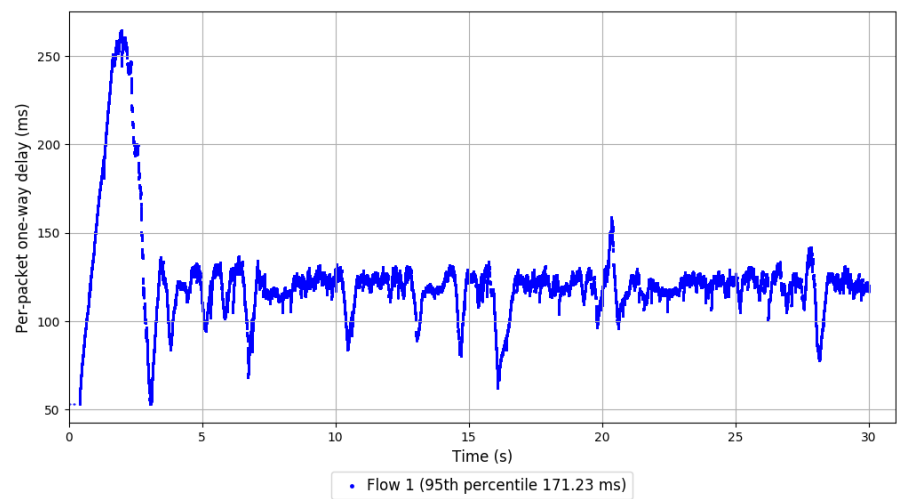
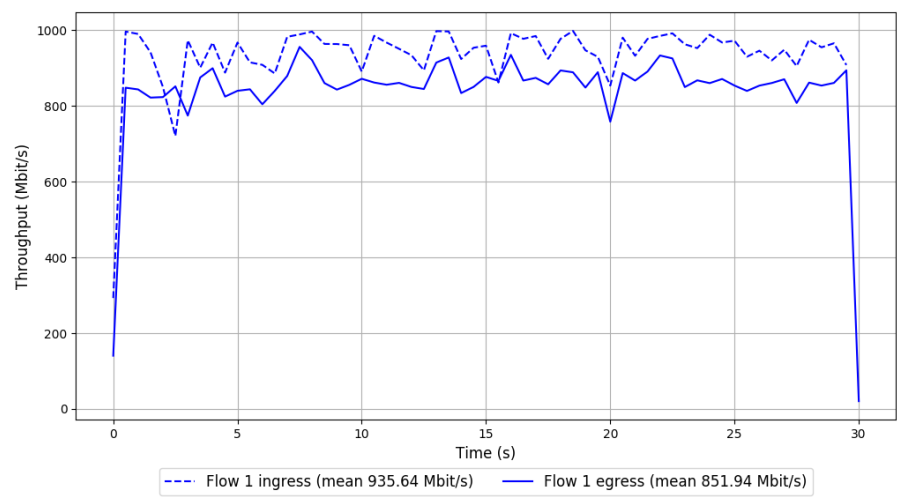
-- Flow 1:

Average throughput: 851.94 Mbit/s

95th percentile per-packet one-way delay: 171.232 ms

Loss rate: 8.94%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-02-27 18:13:28

End at: 2018-02-27 18:13:58

Below is generated by plot.py at 2018-02-27 22:09:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 837.86 Mbit/s

95th percentile per-packet one-way delay: 129.114 ms

Loss rate: 9.44%

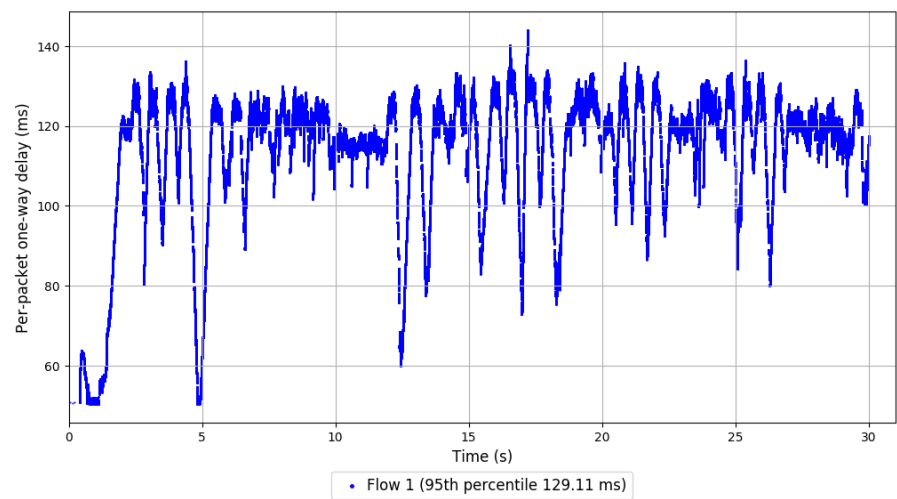
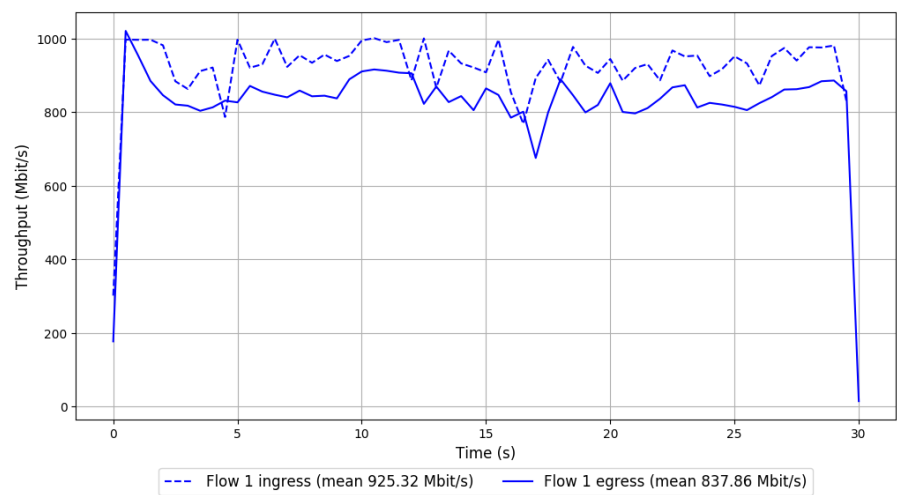
-- Flow 1:

Average throughput: 837.86 Mbit/s

95th percentile per-packet one-way delay: 129.114 ms

Loss rate: 9.44%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-02-27 18:27:59

End at: 2018-02-27 18:28:29

Below is generated by plot.py at 2018-02-27 22:10:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 903.96 Mbit/s

95th percentile per-packet one-way delay: 124.627 ms

Loss rate: 5.73%

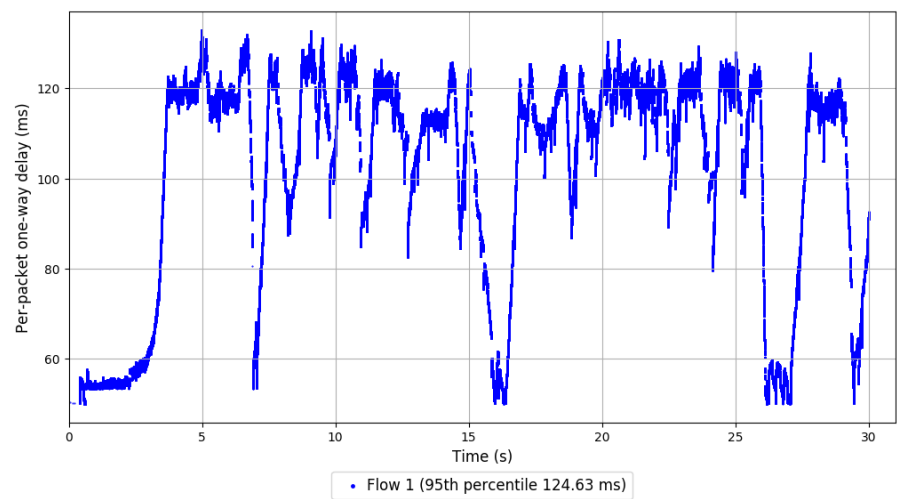
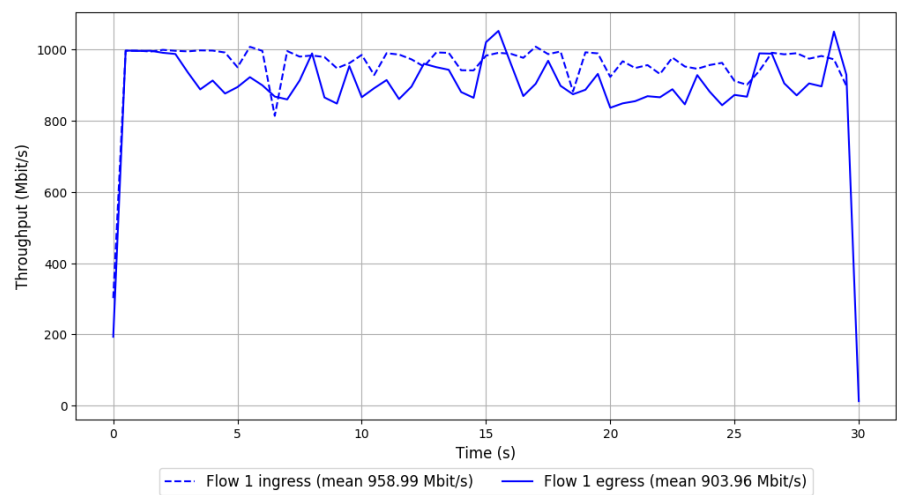
-- Flow 1:

Average throughput: 903.96 Mbit/s

95th percentile per-packet one-way delay: 124.627 ms

Loss rate: 5.73%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-02-27 18:42:46

End at: 2018-02-27 18:43:16

Below is generated by plot.py at 2018-02-27 22:15:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 938.42 Mbit/s

95th percentile per-packet one-way delay: 119.035 ms

Loss rate: 4.21%

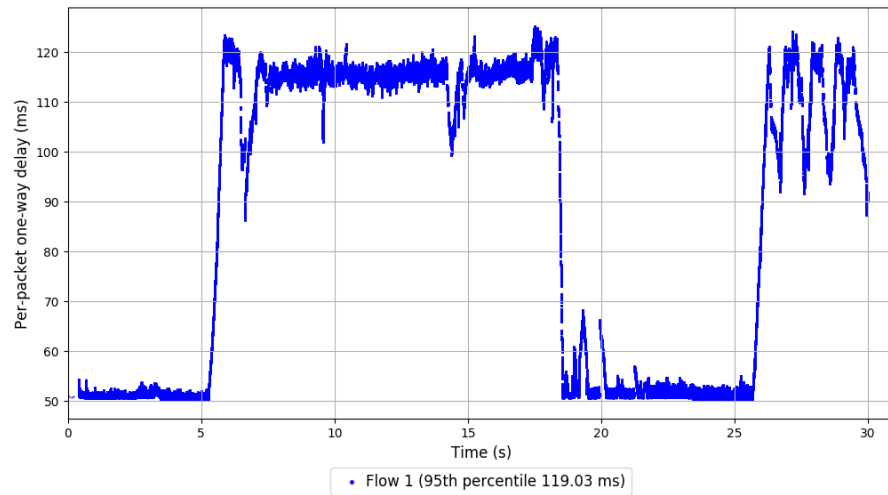
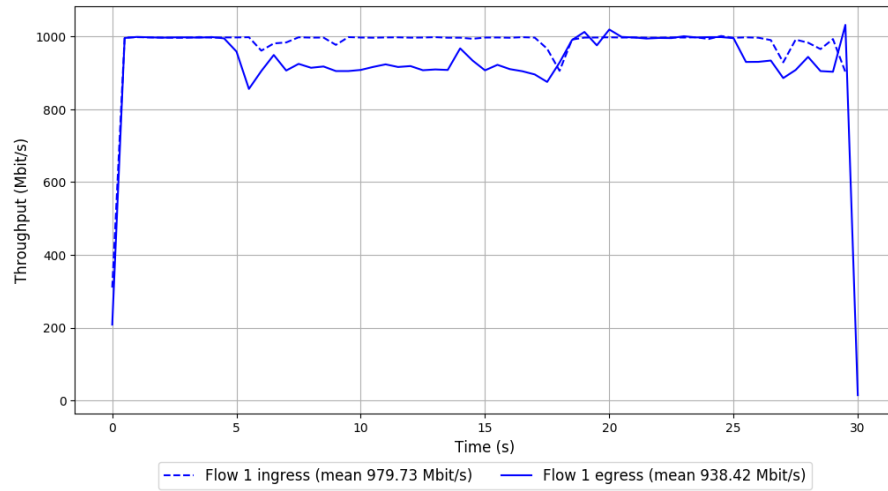
-- Flow 1:

Average throughput: 938.42 Mbit/s

95th percentile per-packet one-way delay: 119.035 ms

Loss rate: 4.21%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-02-27 18:57:42

End at: 2018-02-27 18:58:12

Below is generated by plot.py at 2018-02-27 22:19:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 914.36 Mbit/s

95th percentile per-packet one-way delay: 130.311 ms

Loss rate: 5.34%

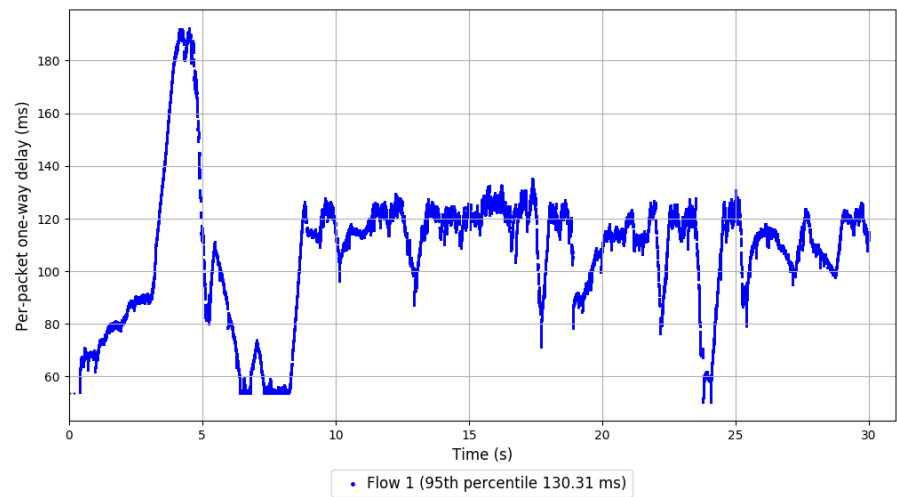
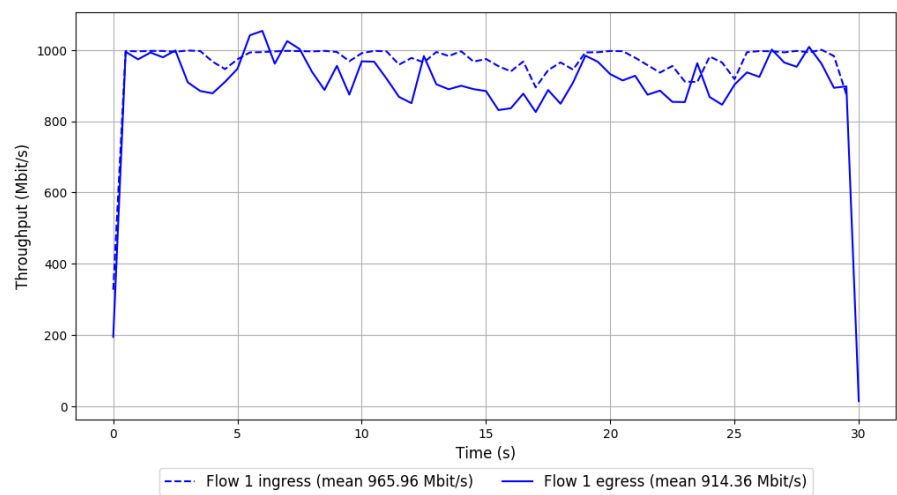
-- Flow 1:

Average throughput: 914.36 Mbit/s

95th percentile per-packet one-way delay: 130.311 ms

Loss rate: 5.34%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-02-27 19:12:17

End at: 2018-02-27 19:12:47

Below is generated by plot.py at 2018-02-27 22:20:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 940.42 Mbit/s

95th percentile per-packet one-way delay: 121.711 ms

Loss rate: 3.66%

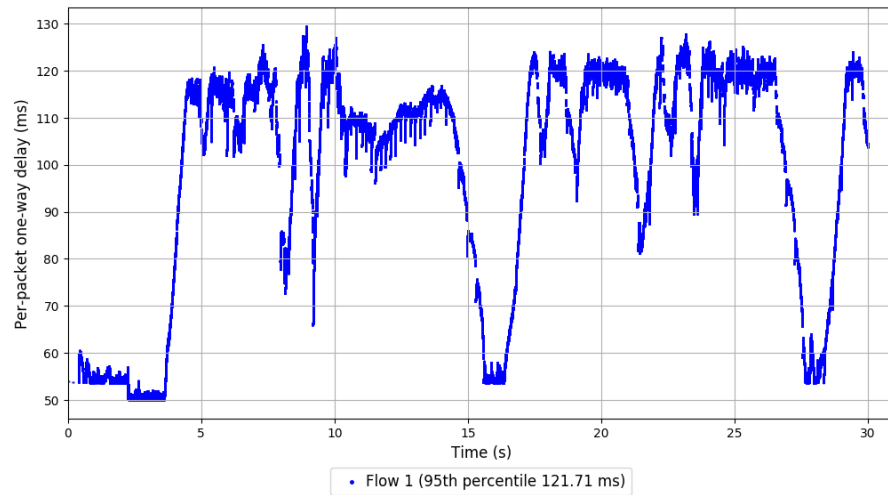
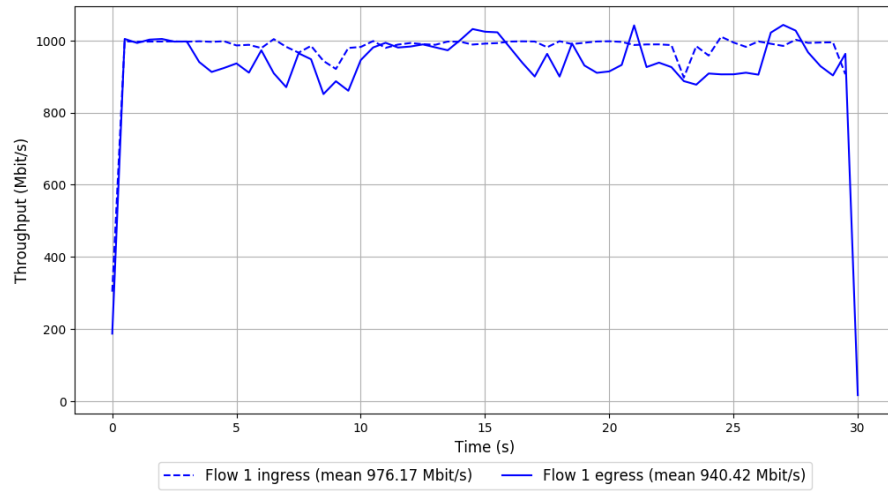
-- Flow 1:

Average throughput: 940.42 Mbit/s

95th percentile per-packet one-way delay: 121.711 ms

Loss rate: 3.66%

Run 10: Report of FillP — Data Link

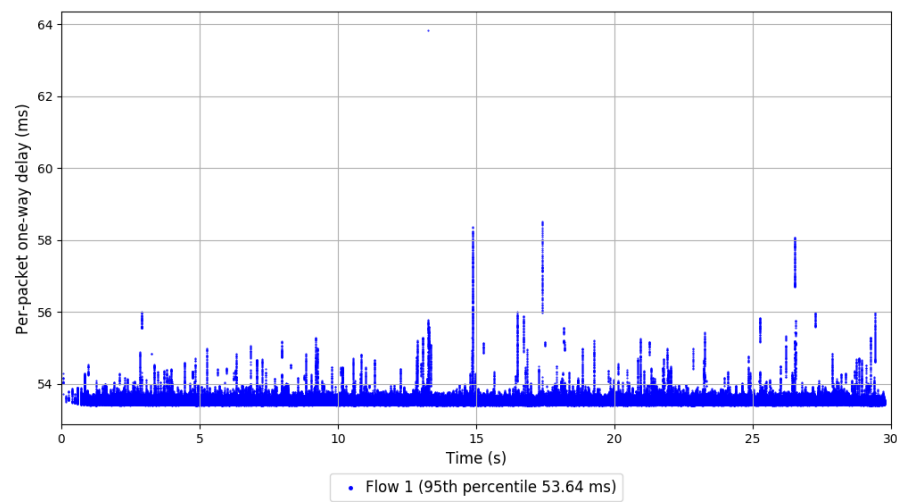
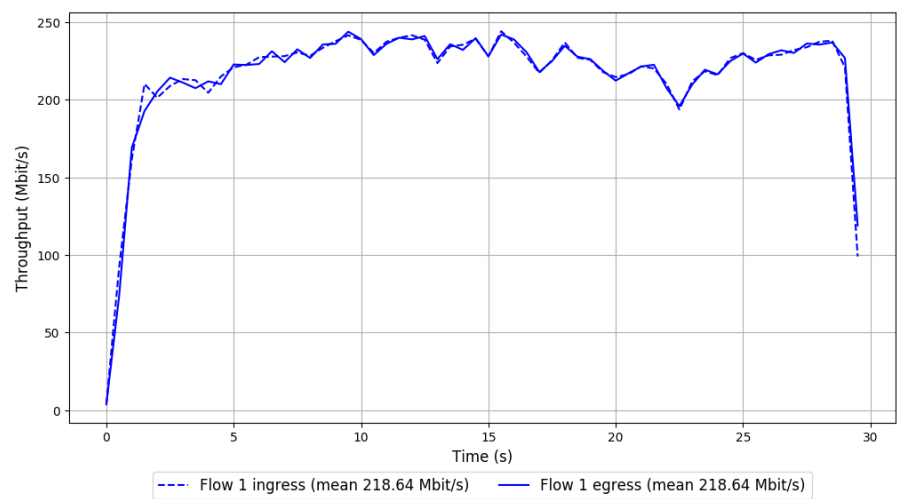


```
Run 1: Statistics of Indigo-1-32

Start at: 2018-02-27 17:02:08
End at: 2018-02-27 17:02:38

# Below is generated by plot.py at 2018-02-27 22:20:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 218.64 Mbit/s
95th percentile per-packet one-way delay: 53.636 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 218.64 Mbit/s
95th percentile per-packet one-way delay: 53.636 ms
Loss rate: 0.00%
```

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

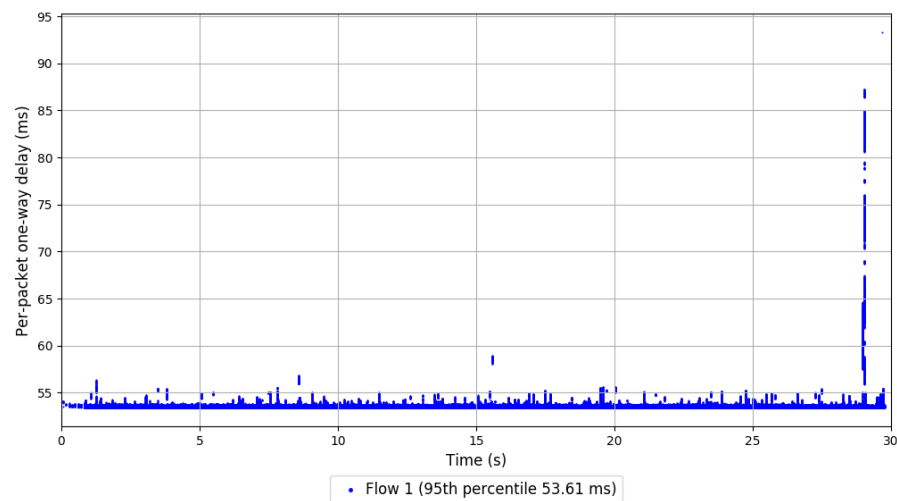
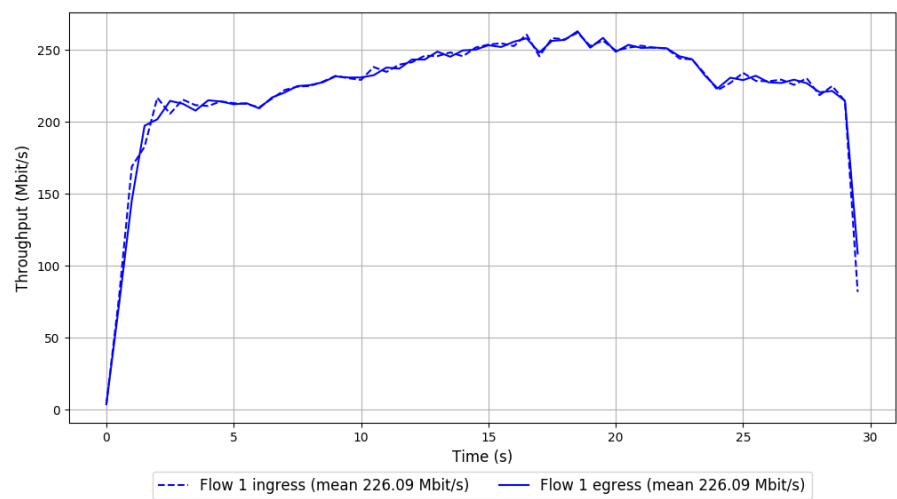


```
Run 2: Statistics of Indigo-1-32

Start at: 2018-02-27 17:16:32
End at: 2018-02-27 17:17:02

# Below is generated by plot.py at 2018-02-27 22:20:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 226.09 Mbit/s
95th percentile per-packet one-way delay: 53.610 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 226.09 Mbit/s
95th percentile per-packet one-way delay: 53.610 ms
Loss rate: 0.00%
```

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



Run 3: Statistics of Indigo-1-32

Start at: 2018-02-27 17:31:19

End at: 2018-02-27 17:31:49

Below is generated by plot.py at 2018-02-27 22:20:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 195.03 Mbit/s

95th percentile per-packet one-way delay: 53.616 ms

Loss rate: 0.00%

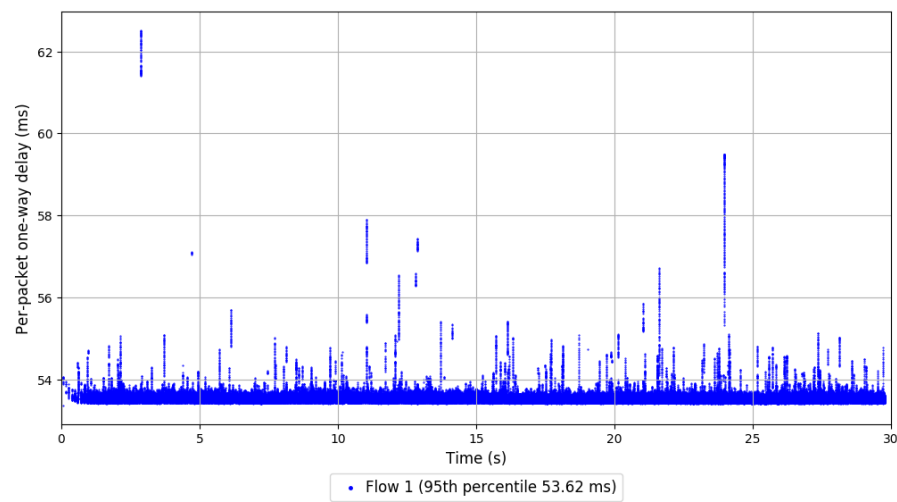
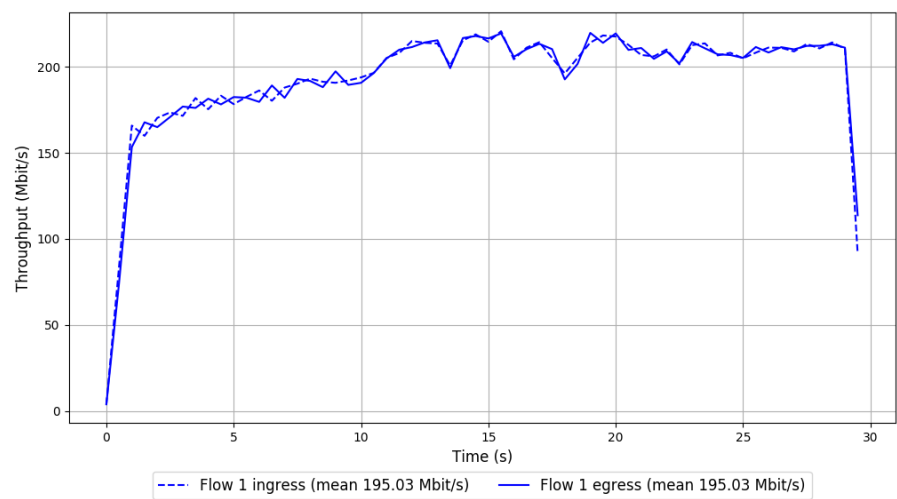
-- Flow 1:

Average throughput: 195.03 Mbit/s

95th percentile per-packet one-way delay: 53.616 ms

Loss rate: 0.00%

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



Run 4: Statistics of Indigo-1-32

Start at: 2018-02-27 17:46:03

End at: 2018-02-27 17:46:33

Below is generated by plot.py at 2018-02-27 22:20:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 217.49 Mbit/s

95th percentile per-packet one-way delay: 53.605 ms

Loss rate: 0.00%

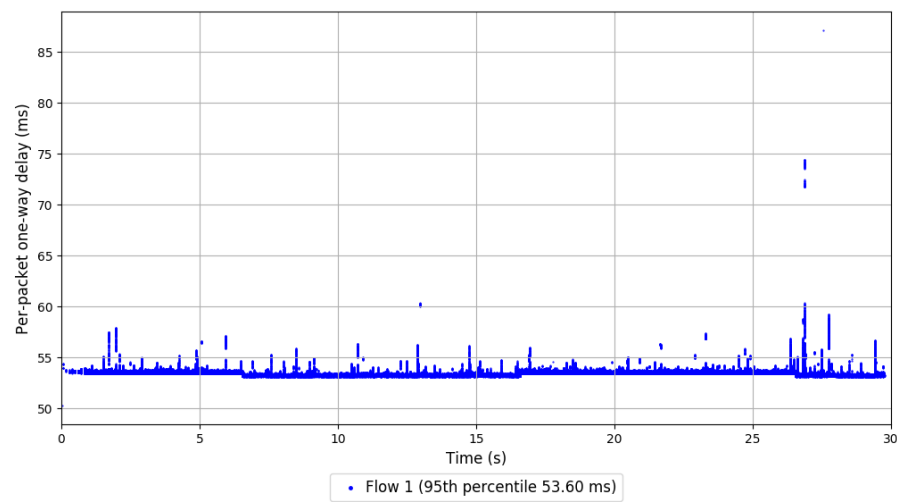
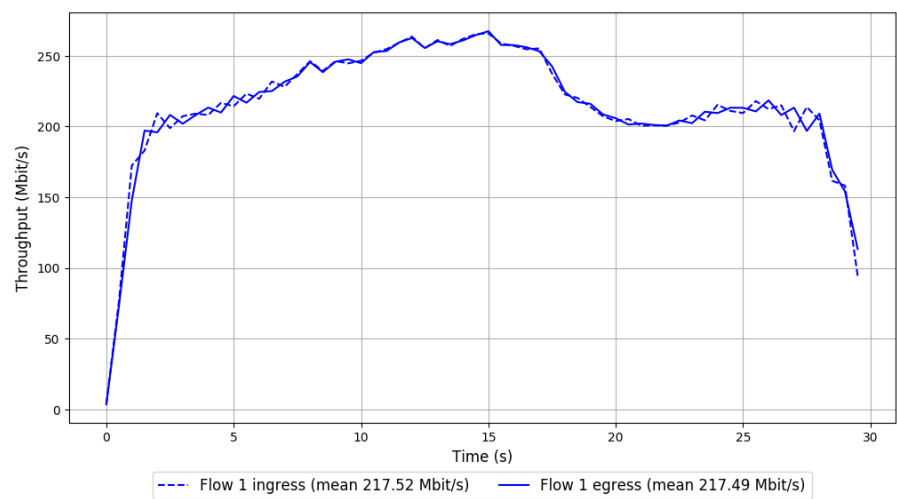
-- Flow 1:

Average throughput: 217.49 Mbit/s

95th percentile per-packet one-way delay: 53.605 ms

Loss rate: 0.00%

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



Run 5: Statistics of Indigo-1-32

Start at: 2018-02-27 18:00:44

End at: 2018-02-27 18:01:14

Below is generated by plot.py at 2018-02-27 22:20:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 219.15 Mbit/s

95th percentile per-packet one-way delay: 53.263 ms

Loss rate: 0.00%

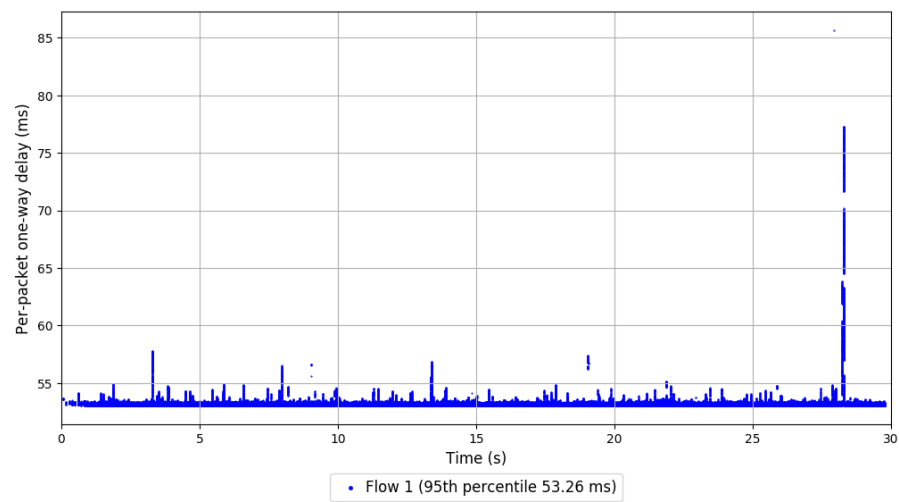
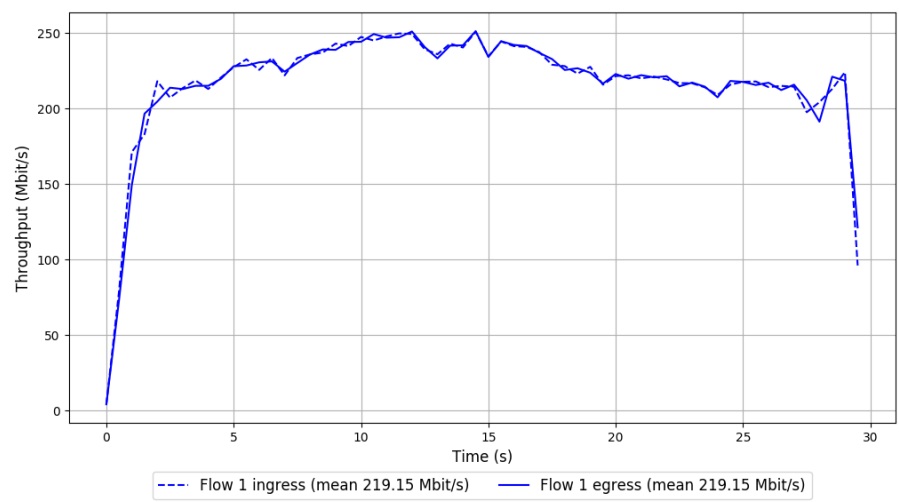
-- Flow 1:

Average throughput: 219.15 Mbit/s

95th percentile per-packet one-way delay: 53.263 ms

Loss rate: 0.00%

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



Run 6: Statistics of Indigo-1-32

Start at: 2018-02-27 18:15:11

End at: 2018-02-27 18:15:41

Below is generated by plot.py at 2018-02-27 22:20:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 228.60 Mbit/s

95th percentile per-packet one-way delay: 53.463 ms

Loss rate: 0.00%

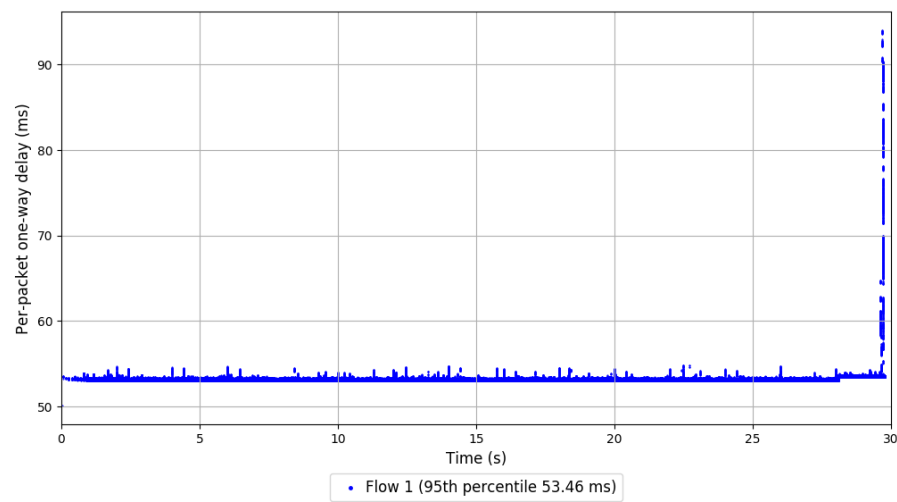
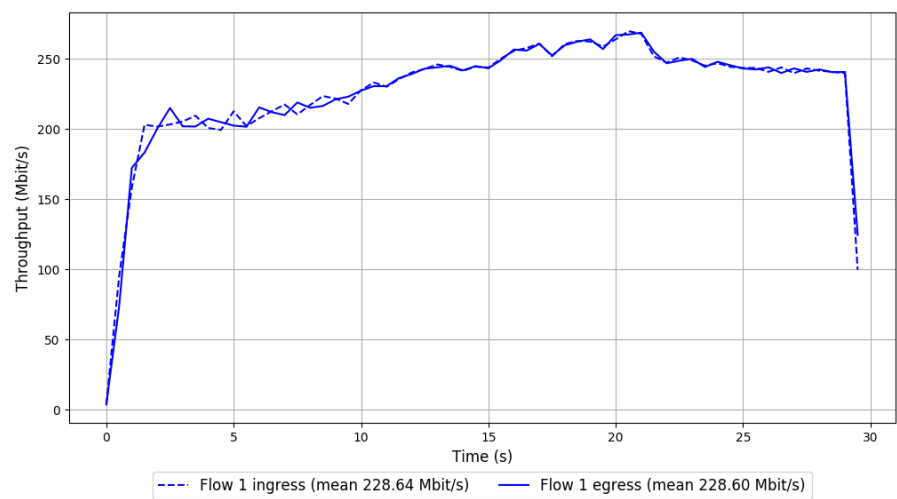
-- Flow 1:

Average throughput: 228.60 Mbit/s

95th percentile per-packet one-way delay: 53.463 ms

Loss rate: 0.00%

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



Run 7: Statistics of Indigo-1-32

Start at: 2018-02-27 18:29:43

End at: 2018-02-27 18:30:13

Below is generated by plot.py at 2018-02-27 22:20:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 224.66 Mbit/s

95th percentile per-packet one-way delay: 53.611 ms

Loss rate: 0.00%

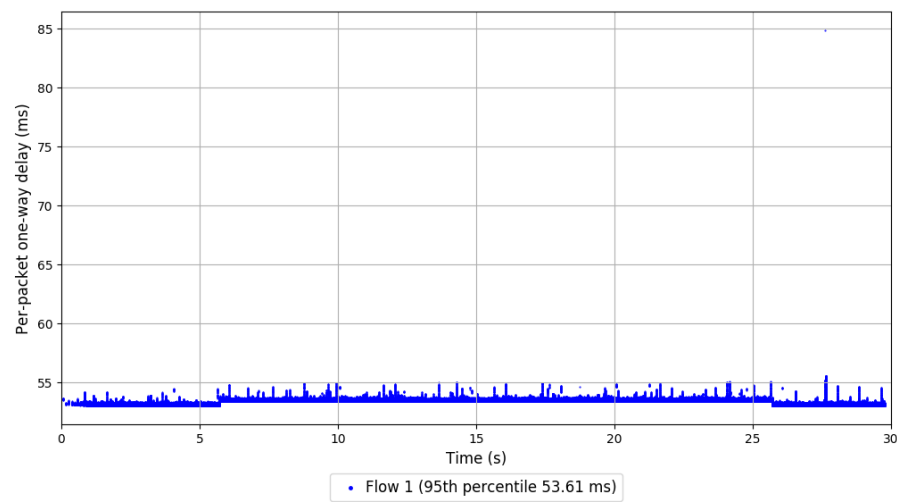
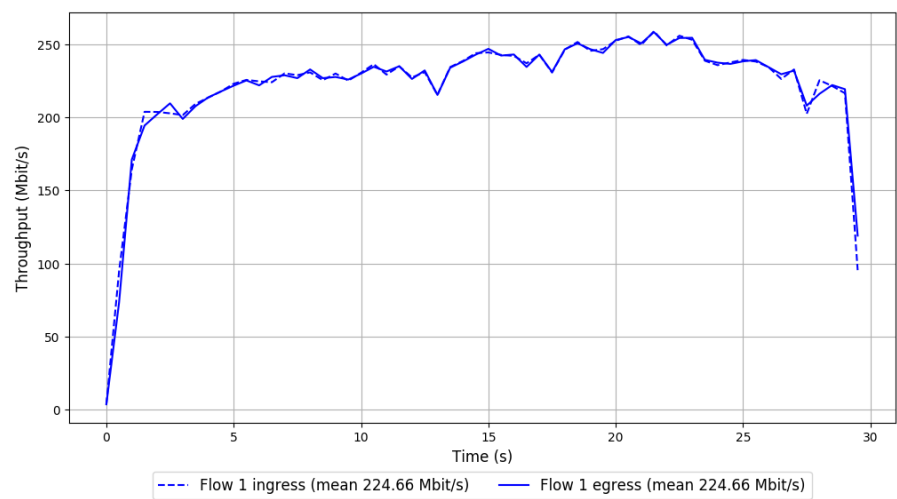
-- Flow 1:

Average throughput: 224.66 Mbit/s

95th percentile per-packet one-way delay: 53.611 ms

Loss rate: 0.00%

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



Run 8: Statistics of Indigo-1-32

Start at: 2018-02-27 18:44:32

End at: 2018-02-27 18:45:02

Below is generated by plot.py at 2018-02-27 22:20:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 223.53 Mbit/s

95th percentile per-packet one-way delay: 53.695 ms

Loss rate: 0.00%

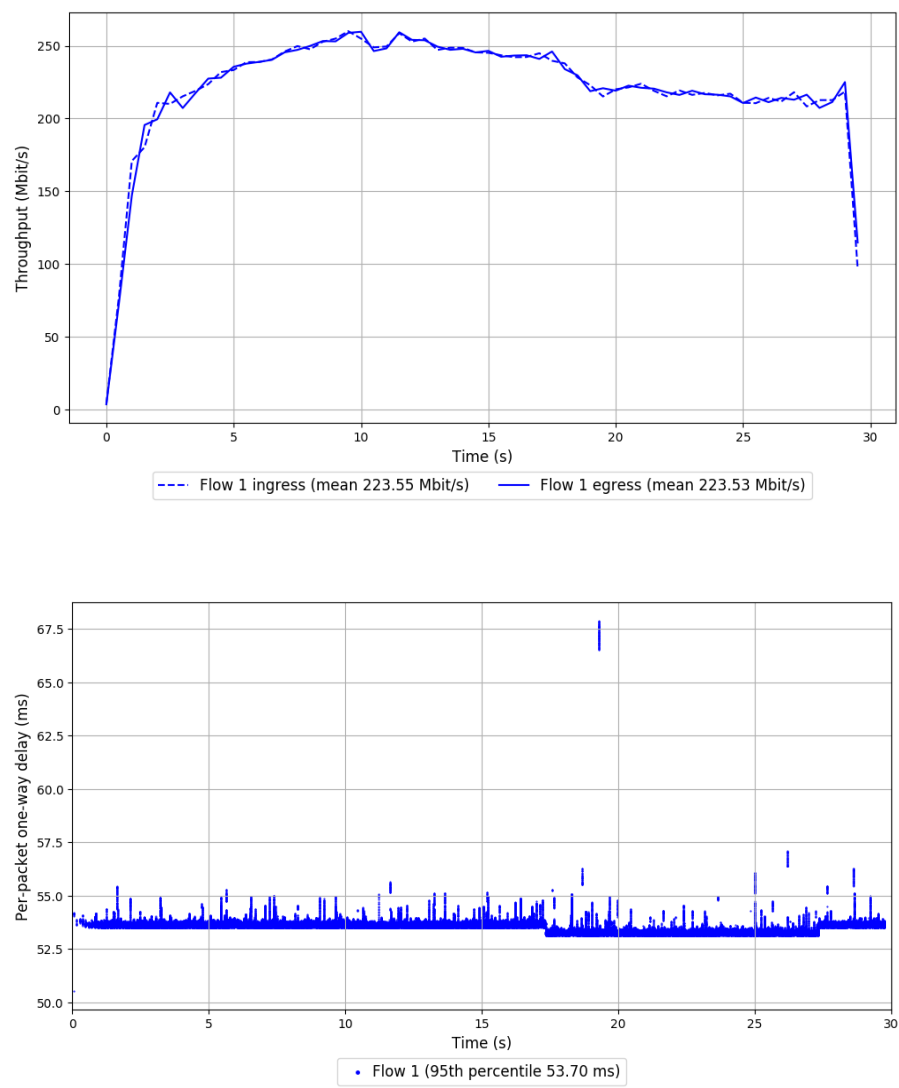
-- Flow 1:

Average throughput: 223.53 Mbit/s

95th percentile per-packet one-way delay: 53.695 ms

Loss rate: 0.00%

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



Run 9: Statistics of Indigo-1-32

Start at: 2018-02-27 18:59:27

End at: 2018-02-27 18:59:57

Below is generated by plot.py at 2018-02-27 22:20:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 229.55 Mbit/s

95th percentile per-packet one-way delay: 53.657 ms

Loss rate: 0.00%

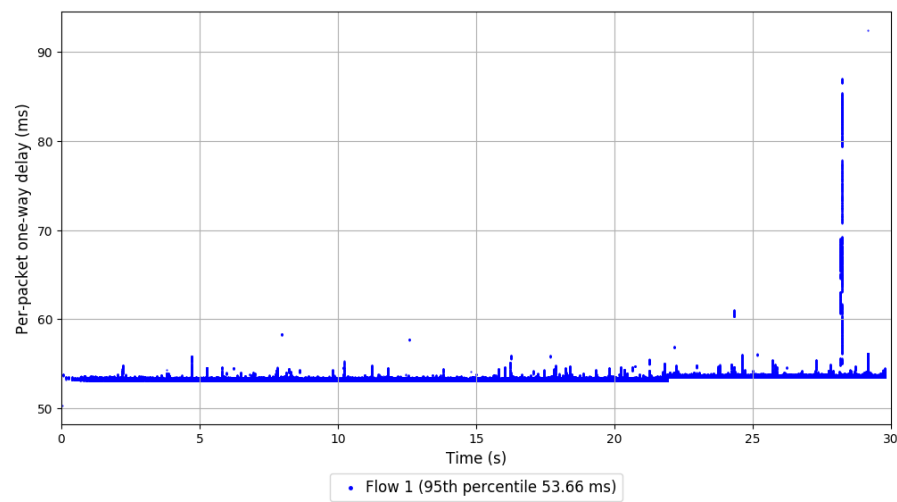
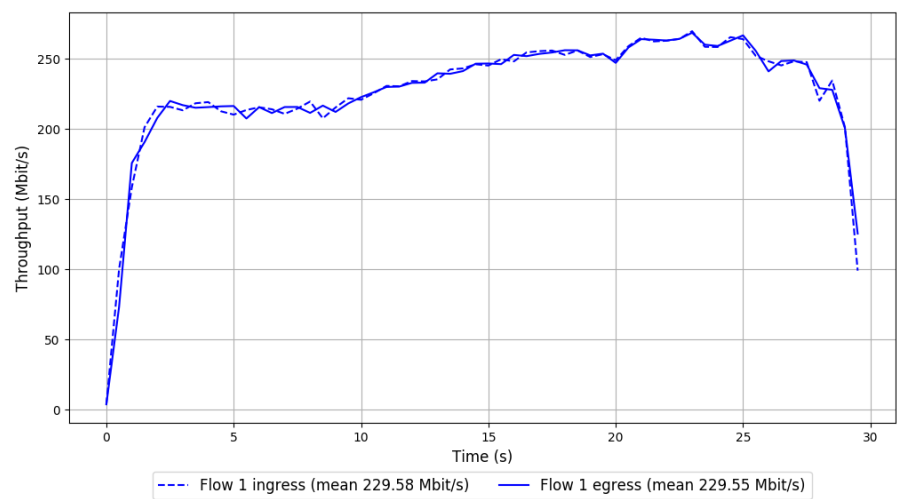
-- Flow 1:

Average throughput: 229.55 Mbit/s

95th percentile per-packet one-way delay: 53.657 ms

Loss rate: 0.00%

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



Run 10: Statistics of Indigo-1-32

Start at: 2018-02-27 19:14:03

End at: 2018-02-27 19:14:33

Below is generated by plot.py at 2018-02-27 22:20:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 221.76 Mbit/s

95th percentile per-packet one-way delay: 53.628 ms

Loss rate: 0.00%

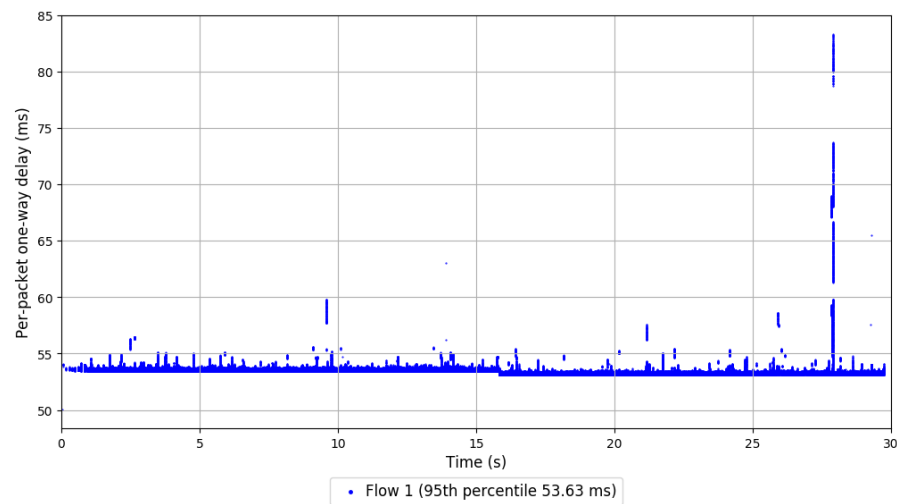
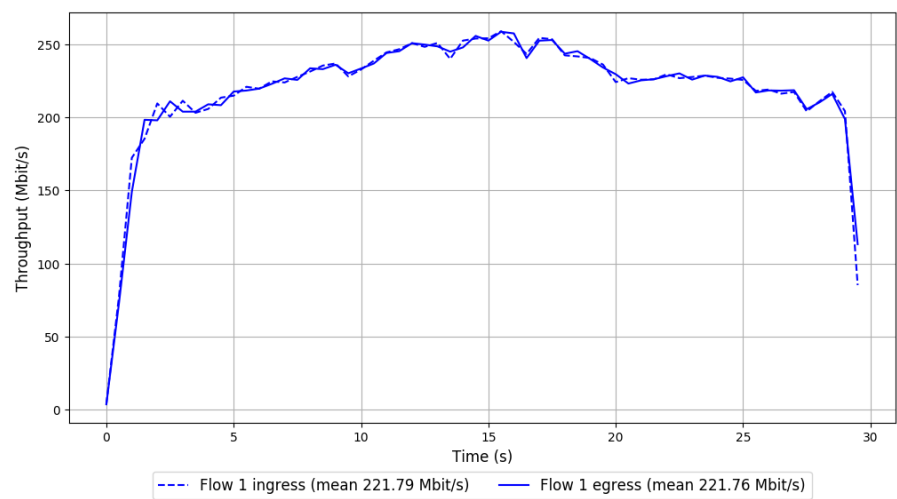
-- Flow 1:

Average throughput: 221.76 Mbit/s

95th percentile per-packet one-way delay: 53.628 ms

Loss rate: 0.00%

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



Run 1: Statistics of Vivace-latency

Start at: 2018-02-27 16:59:22

End at: 2018-02-27 16:59:52

Below is generated by plot.py at 2018-02-27 22:20:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 365.02 Mbit/s

95th percentile per-packet one-way delay: 54.280 ms

Loss rate: 0.00%

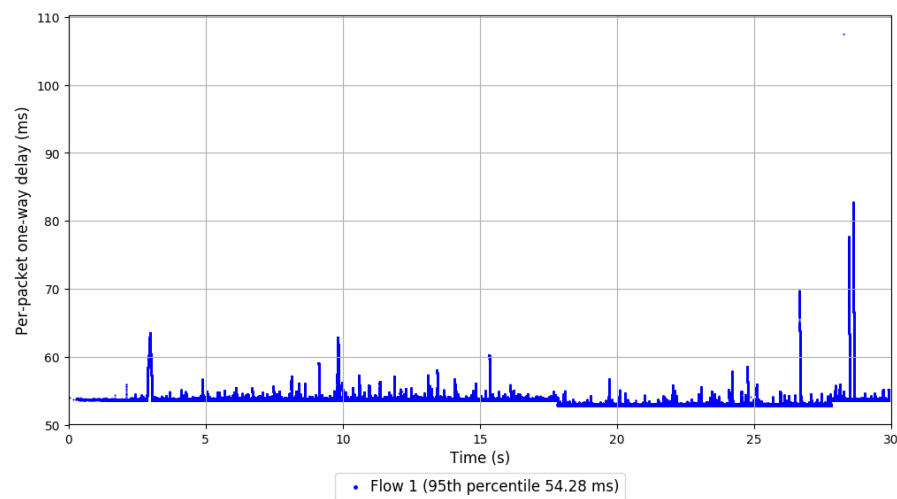
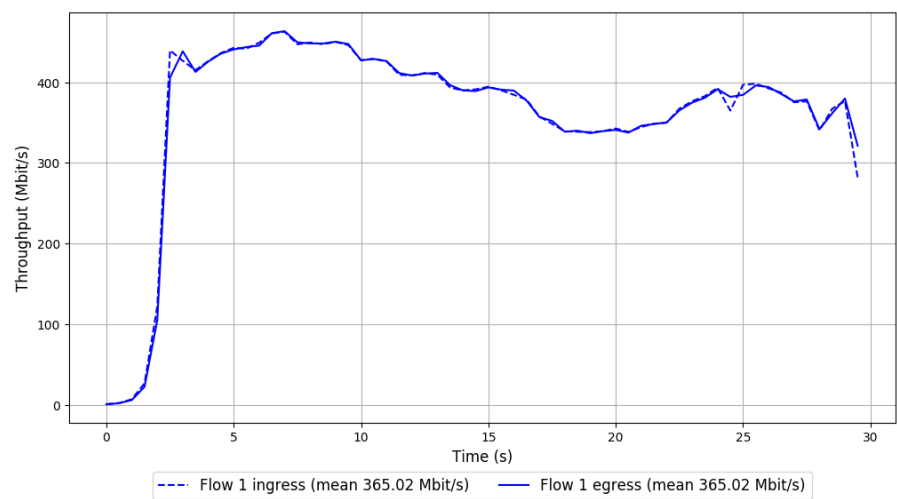
-- Flow 1:

Average throughput: 365.02 Mbit/s

95th percentile per-packet one-way delay: 54.280 ms

Loss rate: 0.00%

Run 1: Report of Vivace-latency — Data Link



Run 2: Statistics of Vivace-latency

Start at: 2018-02-27 17:13:48

End at: 2018-02-27 17:14:18

Below is generated by plot.py at 2018-02-27 22:20:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 375.57 Mbit/s

95th percentile per-packet one-way delay: 54.153 ms

Loss rate: 0.00%

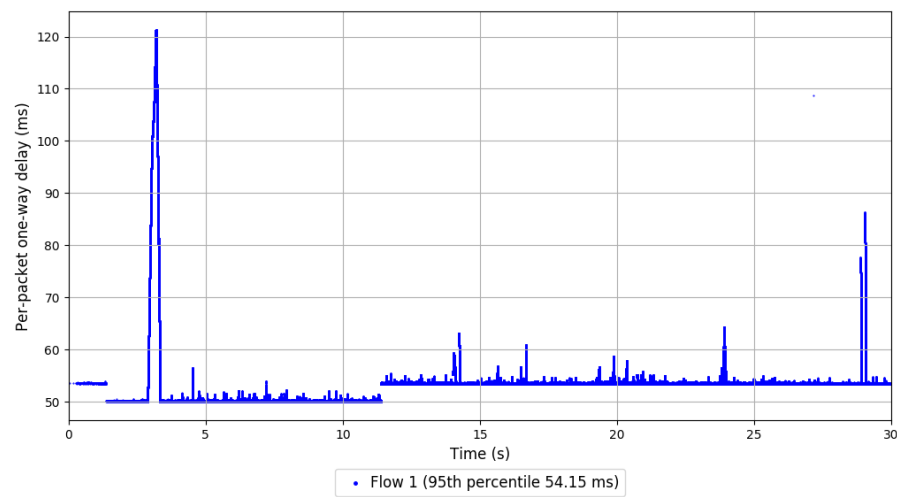
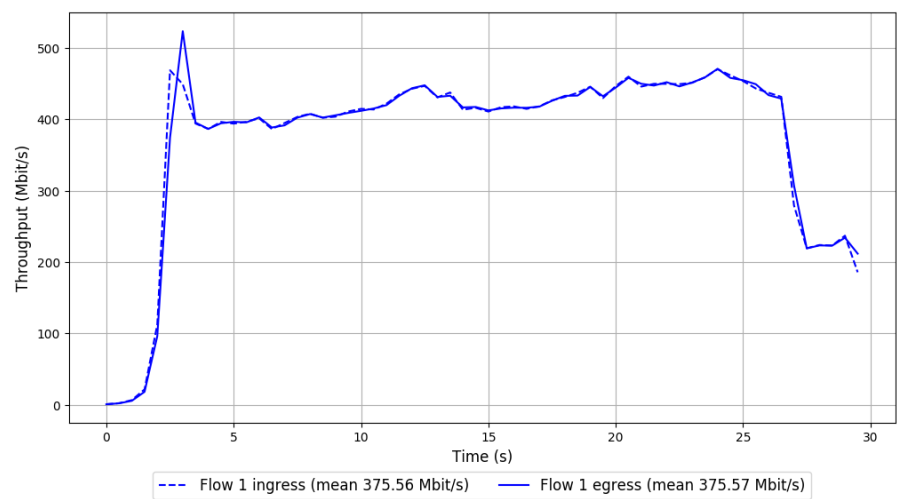
-- Flow 1:

Average throughput: 375.57 Mbit/s

95th percentile per-packet one-way delay: 54.153 ms

Loss rate: 0.00%

Run 2: Report of Vivace-latency — Data Link



Run 3: Statistics of Vivace-latency

Start at: 2018-02-27 17:28:35

End at: 2018-02-27 17:29:05

Below is generated by plot.py at 2018-02-27 22:22:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 373.11 Mbit/s

95th percentile per-packet one-way delay: 50.298 ms

Loss rate: 0.00%

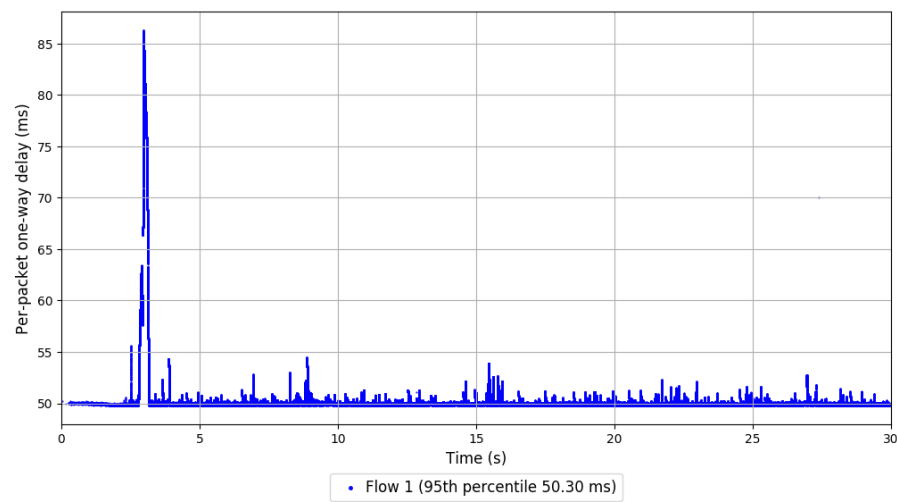
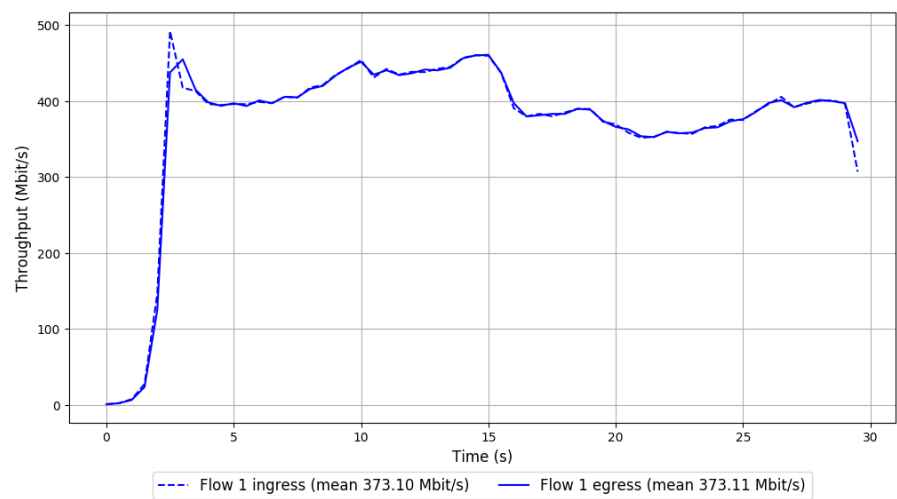
-- Flow 1:

Average throughput: 373.11 Mbit/s

95th percentile per-packet one-way delay: 50.298 ms

Loss rate: 0.00%

Run 3: Report of Vivace-latency — Data Link



Run 4: Statistics of Vivace-latency

Start at: 2018-02-27 17:43:15

End at: 2018-02-27 17:43:45

Below is generated by plot.py at 2018-02-27 22:22:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 392.80 Mbit/s

95th percentile per-packet one-way delay: 170.619 ms

Loss rate: 1.26%

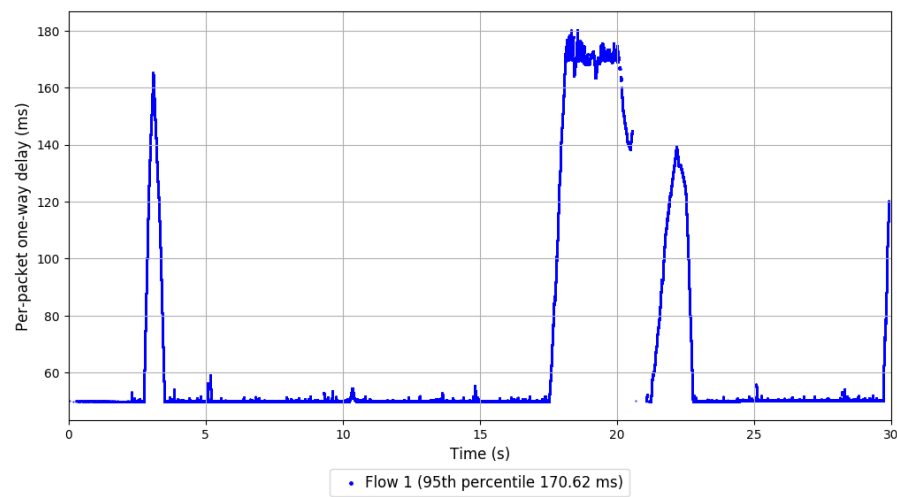
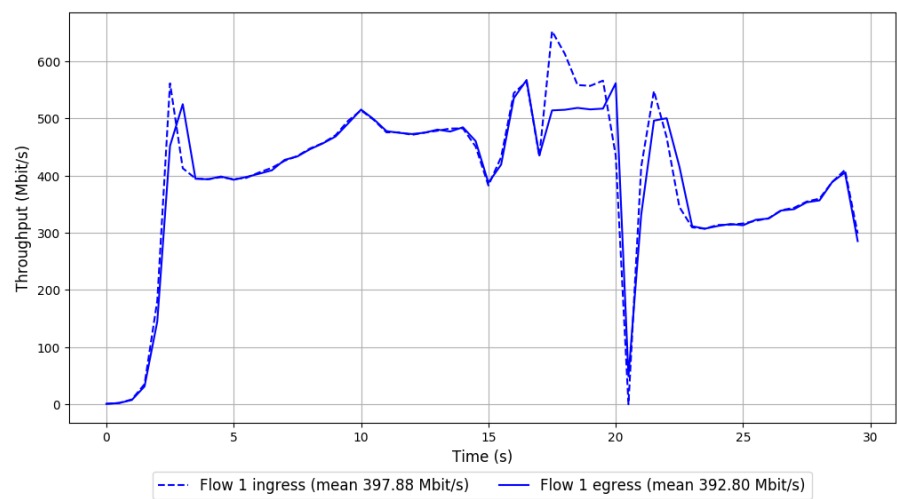
-- Flow 1:

Average throughput: 392.80 Mbit/s

95th percentile per-packet one-way delay: 170.619 ms

Loss rate: 1.26%

Run 4: Report of Vivace-latency — Data Link



Run 5: Statistics of Vivace-latency

Start at: 2018-02-27 17:57:55

End at: 2018-02-27 17:58:25

Below is generated by plot.py at 2018-02-27 22:23:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 422.66 Mbit/s

95th percentile per-packet one-way delay: 52.029 ms

Loss rate: 0.00%

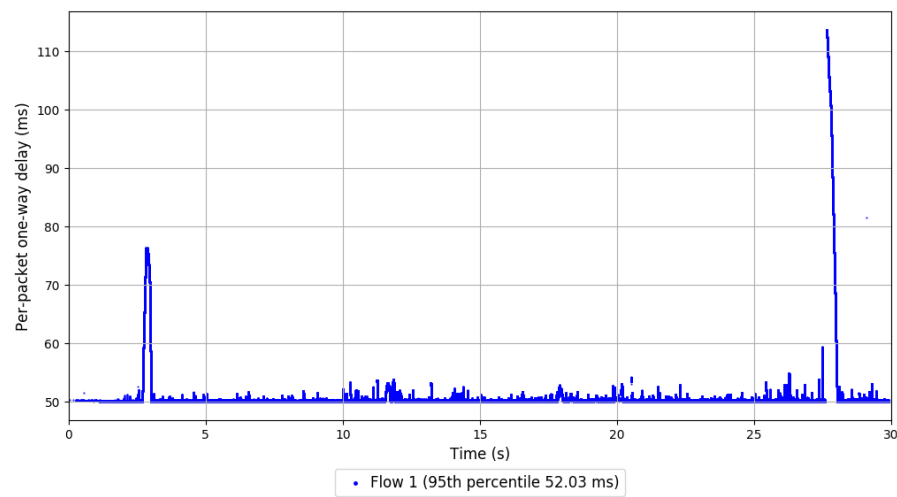
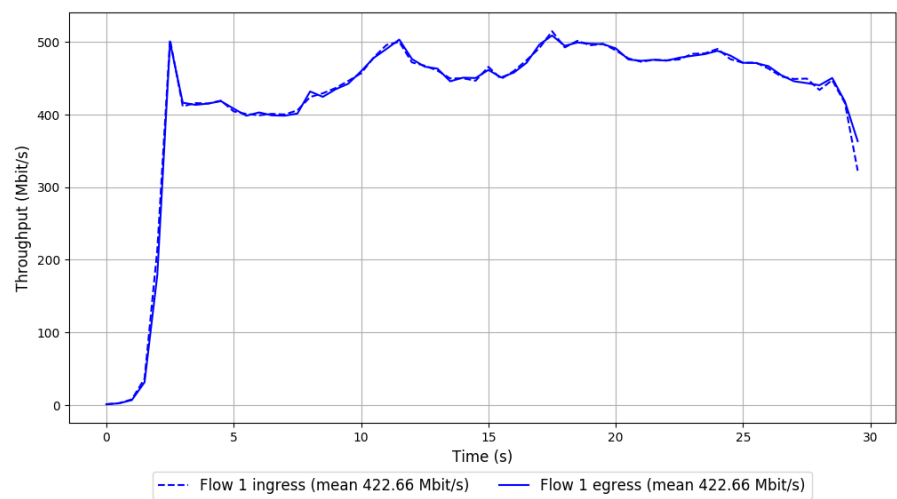
-- Flow 1:

Average throughput: 422.66 Mbit/s

95th percentile per-packet one-way delay: 52.029 ms

Loss rate: 0.00%

Run 5: Report of Vivace-latency — Data Link



Run 6: Statistics of Vivace-latency

Start at: 2018-02-27 18:12:25

End at: 2018-02-27 18:12:55

Below is generated by plot.py at 2018-02-27 22:23:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 418.51 Mbit/s

95th percentile per-packet one-way delay: 51.022 ms

Loss rate: 0.00%

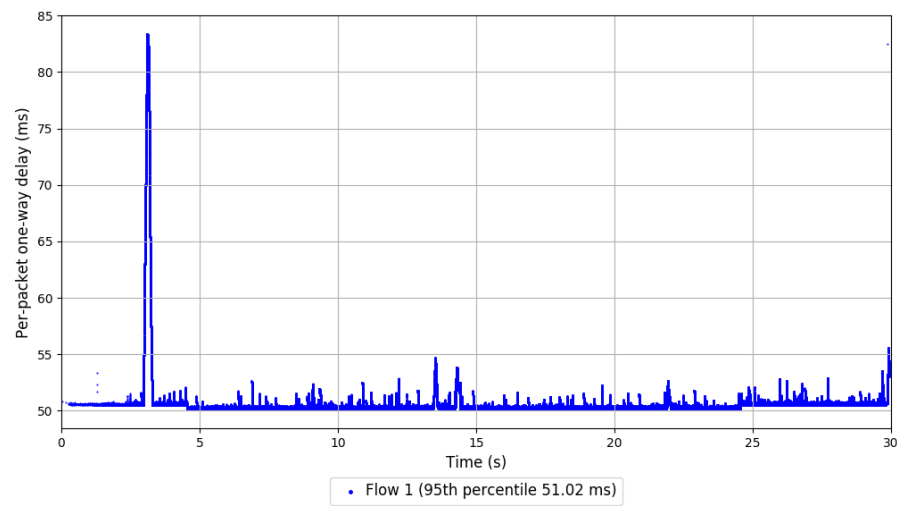
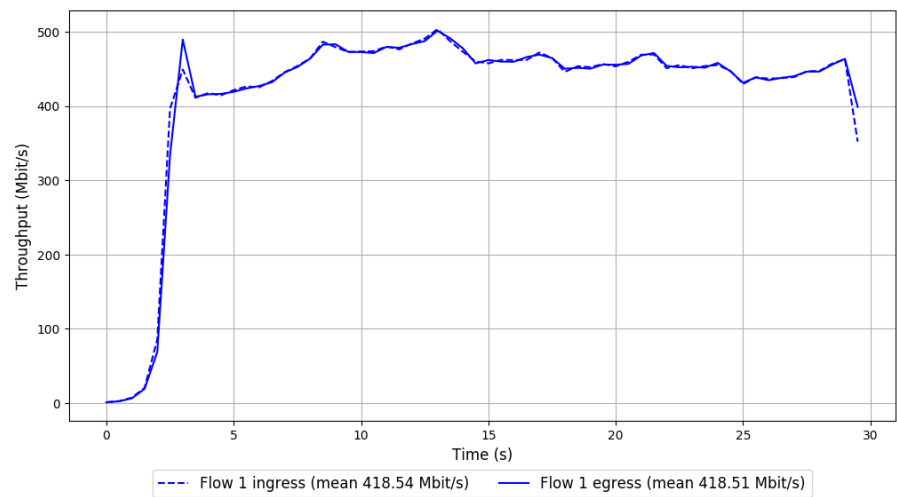
-- Flow 1:

Average throughput: 418.51 Mbit/s

95th percentile per-packet one-way delay: 51.022 ms

Loss rate: 0.00%

Run 6: Report of Vivace-latency — Data Link



Run 7: Statistics of Vivace-latency

Start at: 2018-02-27 18:26:54

End at: 2018-02-27 18:27:24

Below is generated by plot.py at 2018-02-27 22:27:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 430.77 Mbit/s

95th percentile per-packet one-way delay: 53.134 ms

Loss rate: 0.00%

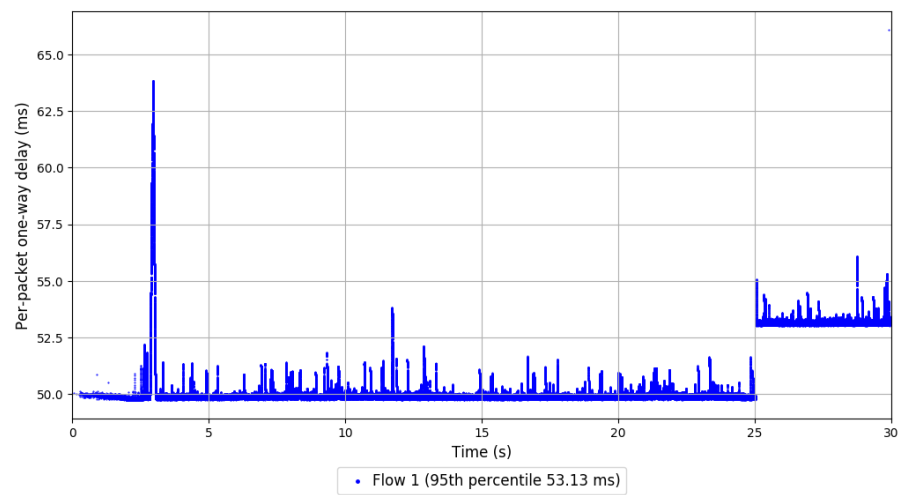
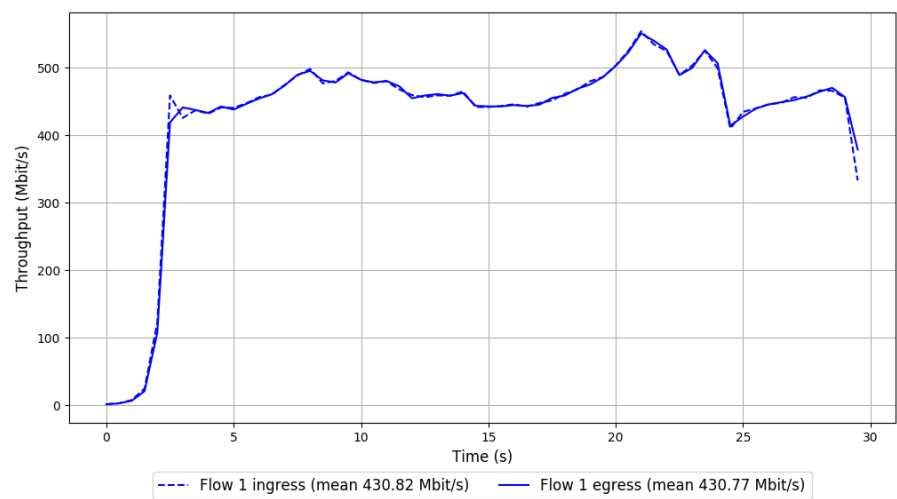
-- Flow 1:

Average throughput: 430.77 Mbit/s

95th percentile per-packet one-way delay: 53.134 ms

Loss rate: 0.00%

Run 7: Report of Vivace-latency — Data Link



Run 8: Statistics of Vivace-latency

Start at: 2018-02-27 18:41:43

End at: 2018-02-27 18:42:13

Below is generated by plot.py at 2018-02-27 22:27:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 404.85 Mbit/s

95th percentile per-packet one-way delay: 53.462 ms

Loss rate: 0.00%

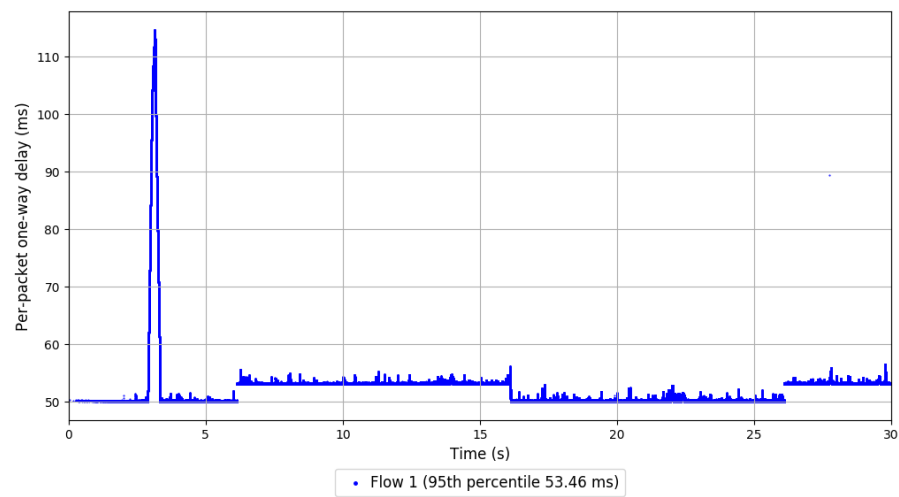
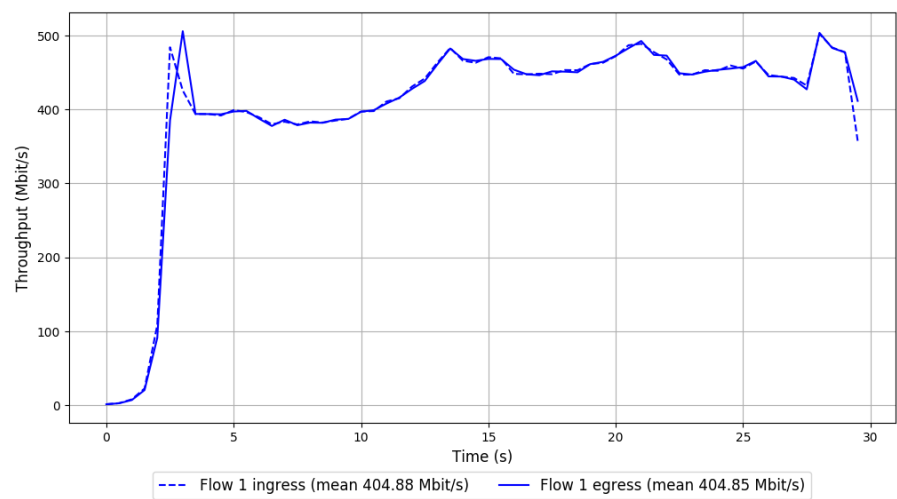
-- Flow 1:

Average throughput: 404.85 Mbit/s

95th percentile per-packet one-way delay: 53.462 ms

Loss rate: 0.00%

Run 8: Report of Vivace-latency — Data Link



Run 9: Statistics of Vivace-latency

Start at: 2018-02-27 18:56:39

End at: 2018-02-27 18:57:09

Below is generated by plot.py at 2018-02-27 22:27:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 408.18 Mbit/s

95th percentile per-packet one-way delay: 55.686 ms

Loss rate: 0.00%

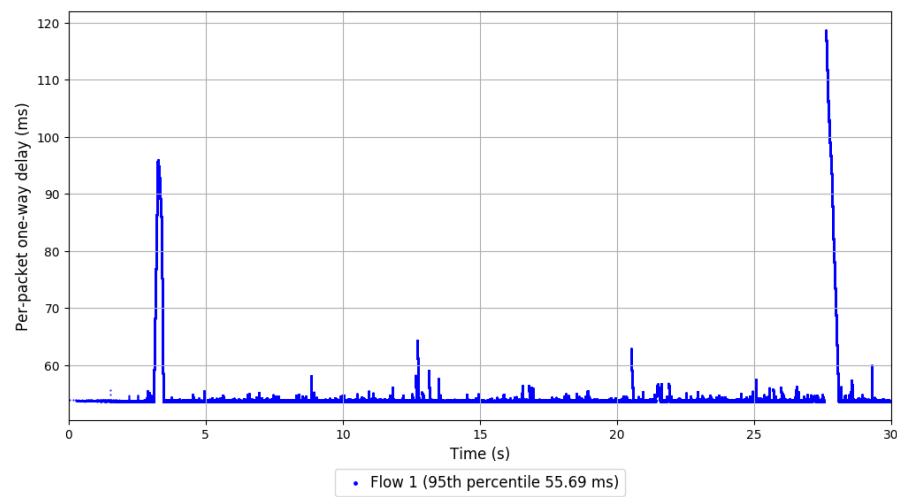
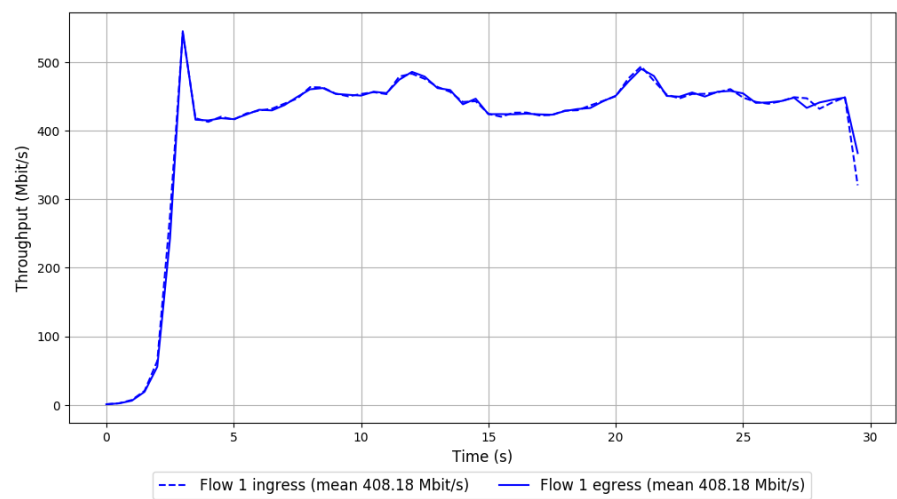
-- Flow 1:

Average throughput: 408.18 Mbit/s

95th percentile per-packet one-way delay: 55.686 ms

Loss rate: 0.00%

Run 9: Report of Vivace-latency — Data Link



Run 10: Statistics of Vivace-latency

Start at: 2018-02-27 19:11:19

End at: 2018-02-27 19:11:49

Below is generated by plot.py at 2018-02-27 22:27:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 325.00 Mbit/s

95th percentile per-packet one-way delay: 54.116 ms

Loss rate: 0.00%

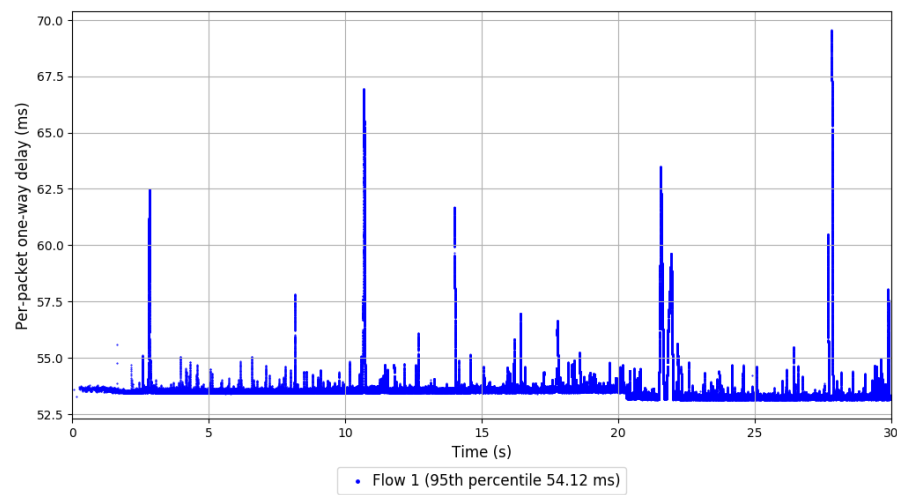
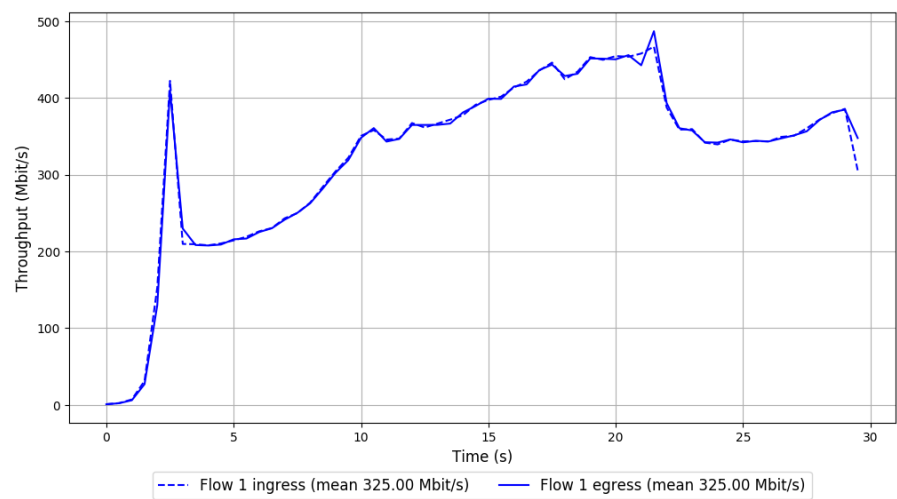
-- Flow 1:

Average throughput: 325.00 Mbit/s

95th percentile per-packet one-way delay: 54.116 ms

Loss rate: 0.00%

Run 10: Report of Vivace-latency — Data Link

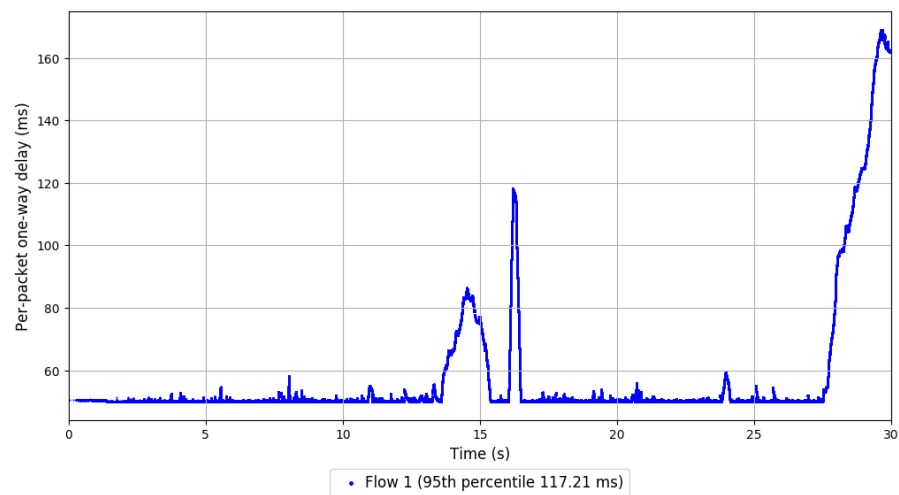
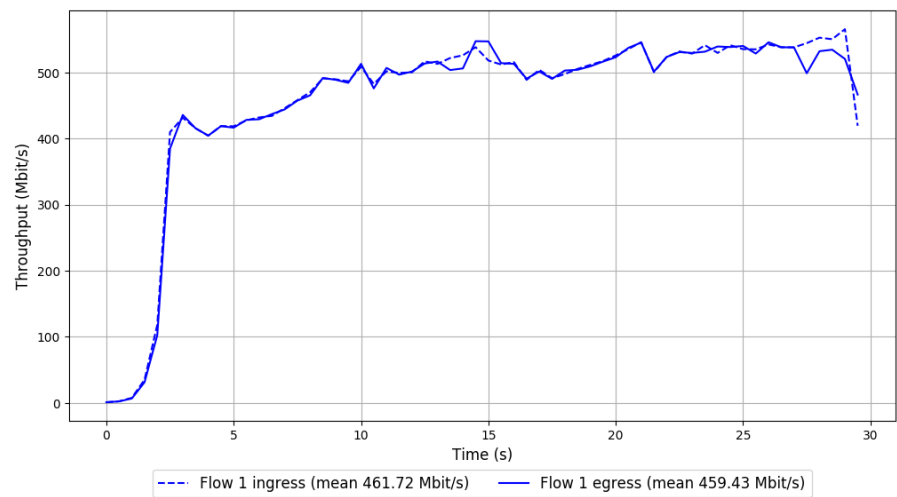


```
Run 1: Statistics of Vivace-loss

Start at: 2018-02-27 17:08:28
End at: 2018-02-27 17:08:58

# Below is generated by plot.py at 2018-02-27 22:30:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 459.43 Mbit/s
95th percentile per-packet one-way delay: 117.208 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 459.43 Mbit/s
95th percentile per-packet one-way delay: 117.208 ms
Loss rate: 0.49%
```

Run 1: Report of Vivace-loss — Data Link



Run 2: Statistics of Vivace-loss

Start at: 2018-02-27 17:23:13

End at: 2018-02-27 17:23:43

Below is generated by plot.py at 2018-02-27 22:30:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 387.98 Mbit/s

95th percentile per-packet one-way delay: 81.298 ms

Loss rate: 0.00%

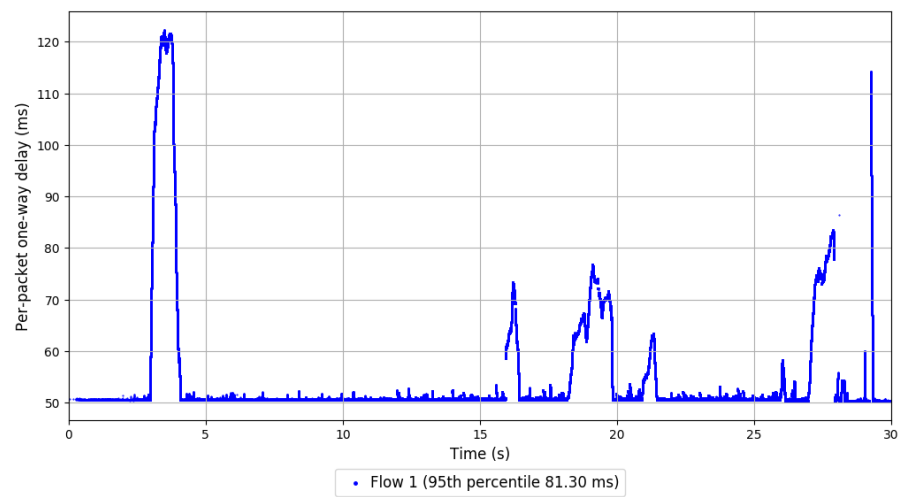
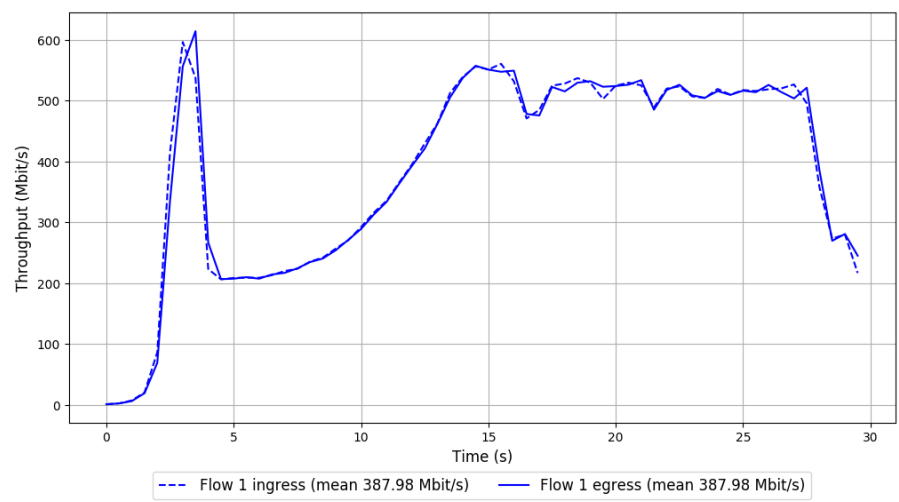
-- Flow 1:

Average throughput: 387.98 Mbit/s

95th percentile per-packet one-way delay: 81.298 ms

Loss rate: 0.00%

Run 2: Report of Vivace-loss — Data Link



Run 3: Statistics of Vivace-loss

Start at: 2018-02-27 17:37:55

End at: 2018-02-27 17:38:25

Below is generated by plot.py at 2018-02-27 22:32:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 426.20 Mbit/s

95th percentile per-packet one-way delay: 179.756 ms

Loss rate: 3.13%

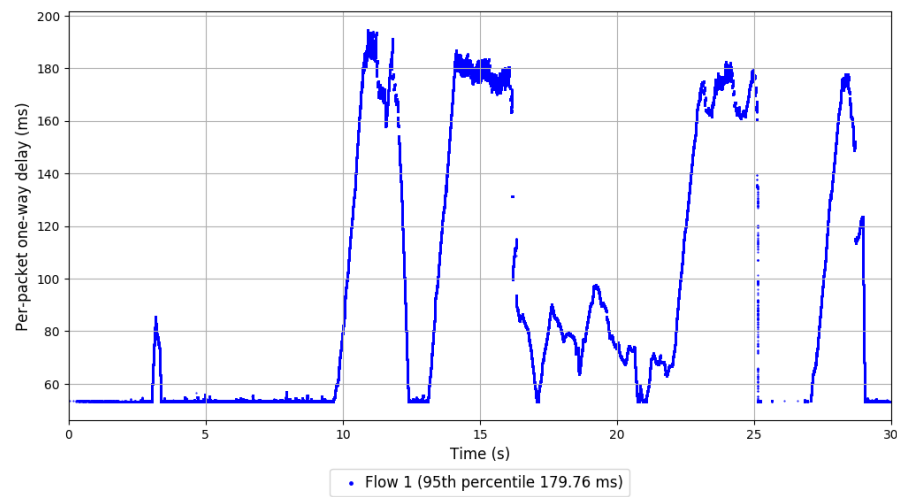
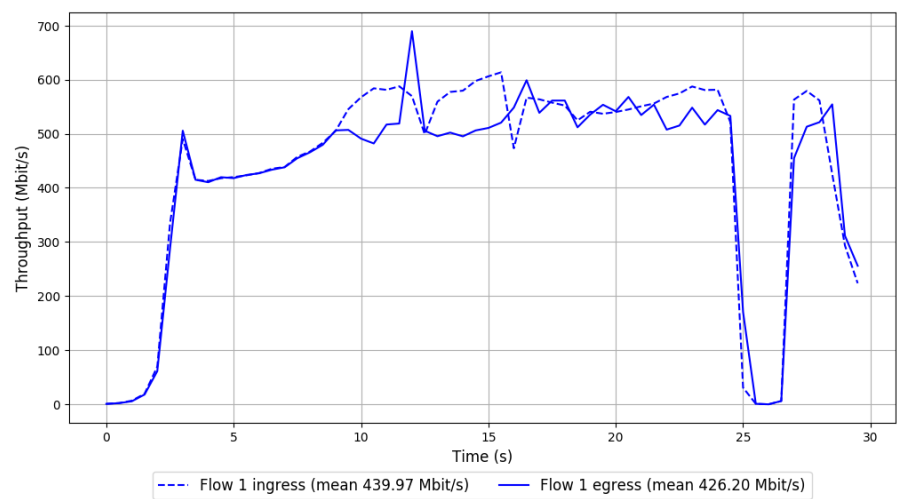
-- Flow 1:

Average throughput: 426.20 Mbit/s

95th percentile per-packet one-way delay: 179.756 ms

Loss rate: 3.13%

Run 3: Report of Vivace-loss — Data Link



Run 4: Statistics of Vivace-loss

Start at: 2018-02-27 17:52:41

End at: 2018-02-27 17:53:11

Below is generated by plot.py at 2018-02-27 22:32:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 349.86 Mbit/s

95th percentile per-packet one-way delay: 188.898 ms

Loss rate: 6.89%

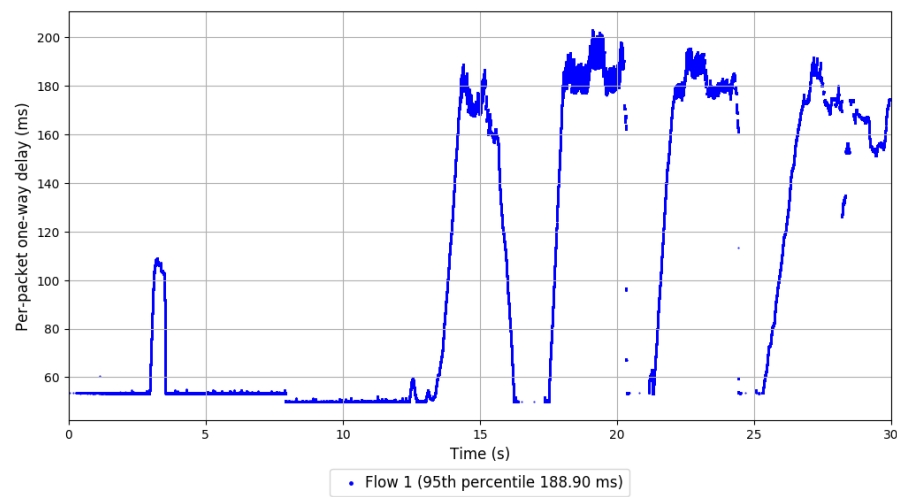
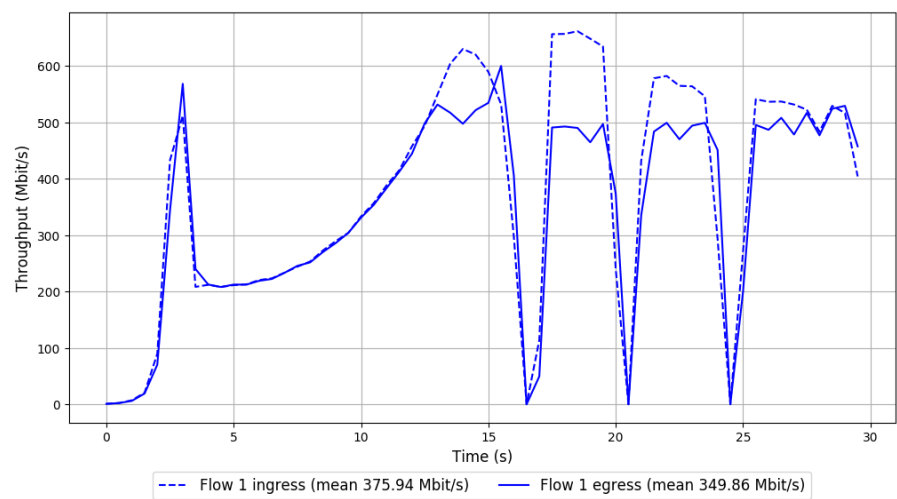
-- Flow 1:

Average throughput: 349.86 Mbit/s

95th percentile per-packet one-way delay: 188.898 ms

Loss rate: 6.89%

Run 4: Report of Vivace-loss — Data Link



Run 5: Statistics of Vivace-loss

Start at: 2018-02-27 18:07:07

End at: 2018-02-27 18:07:37

Below is generated by plot.py at 2018-02-27 22:33:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 416.65 Mbit/s

95th percentile per-packet one-way delay: 183.238 ms

Loss rate: 2.45%

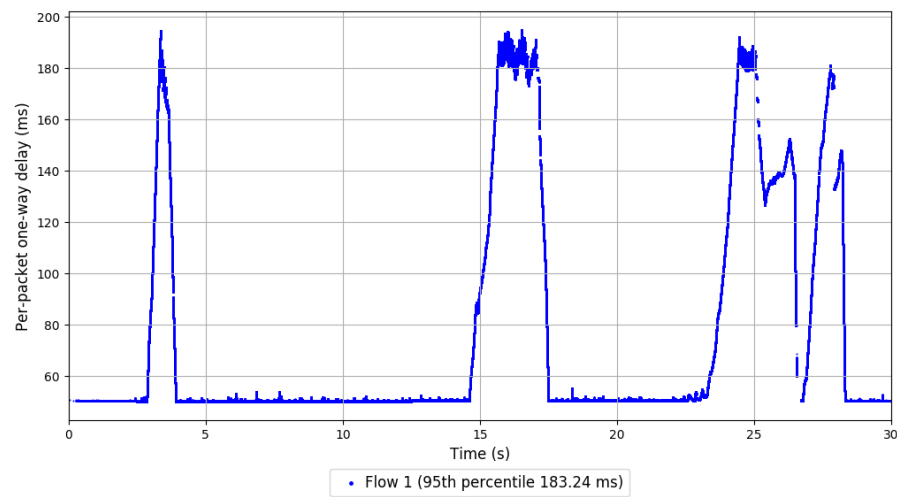
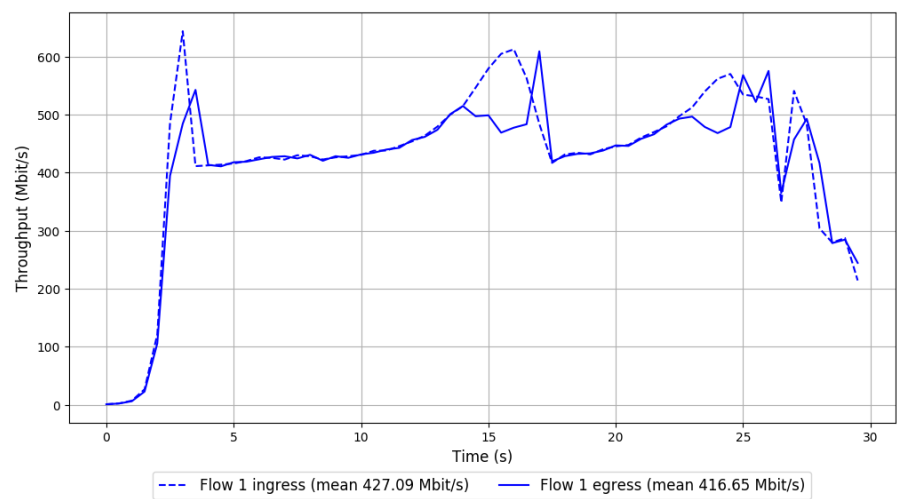
-- Flow 1:

Average throughput: 416.65 Mbit/s

95th percentile per-packet one-way delay: 183.238 ms

Loss rate: 2.45%

Run 5: Report of Vivace-loss — Data Link



Run 6: Statistics of Vivace-loss

Start at: 2018-02-27 18:21:31

End at: 2018-02-27 18:22:01

Below is generated by plot.py at 2018-02-27 22:35:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 452.53 Mbit/s

95th percentile per-packet one-way delay: 179.668 ms

Loss rate: 3.06%

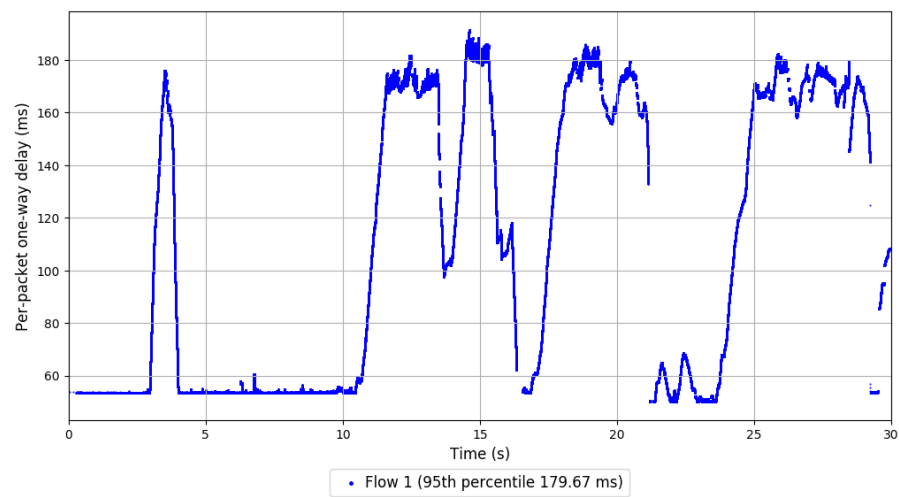
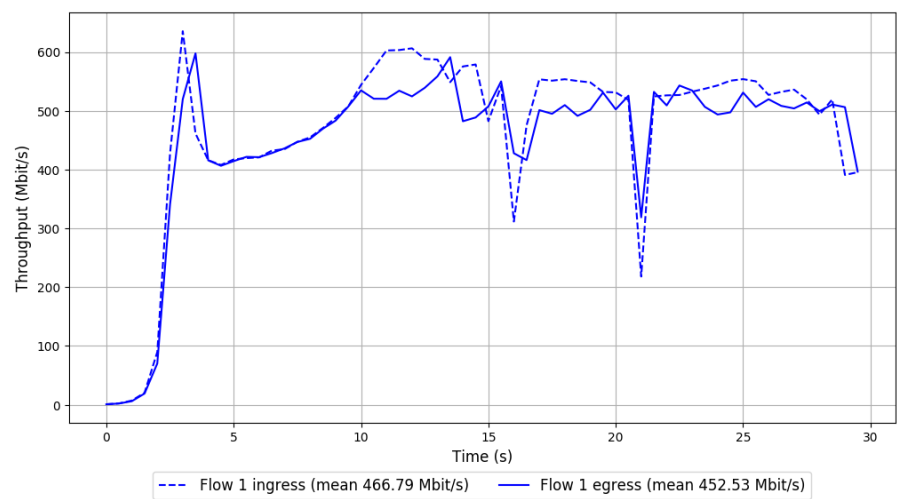
-- Flow 1:

Average throughput: 452.53 Mbit/s

95th percentile per-packet one-way delay: 179.668 ms

Loss rate: 3.06%

Run 6: Report of Vivace-loss — Data Link



Run 7: Statistics of Vivace-loss

Start at: 2018-02-27 18:36:23

End at: 2018-02-27 18:36:53

Below is generated by plot.py at 2018-02-27 22:35:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 401.19 Mbit/s

95th percentile per-packet one-way delay: 50.773 ms

Loss rate: 0.00%

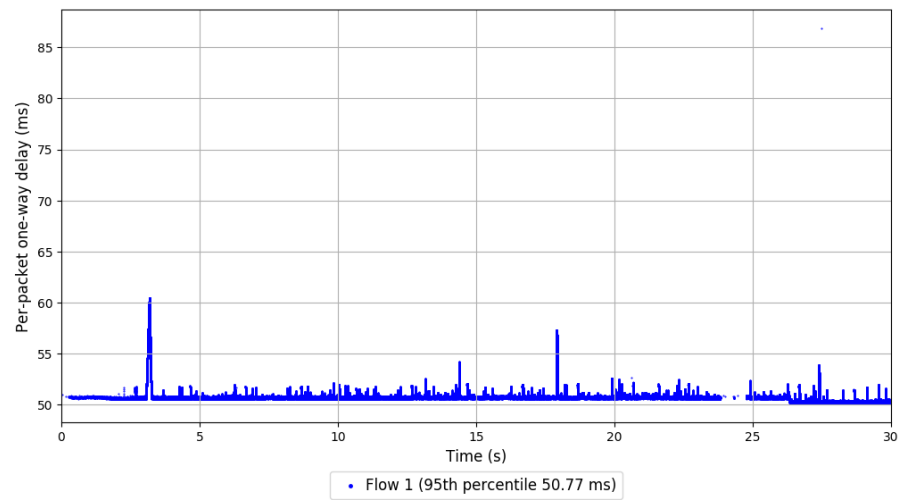
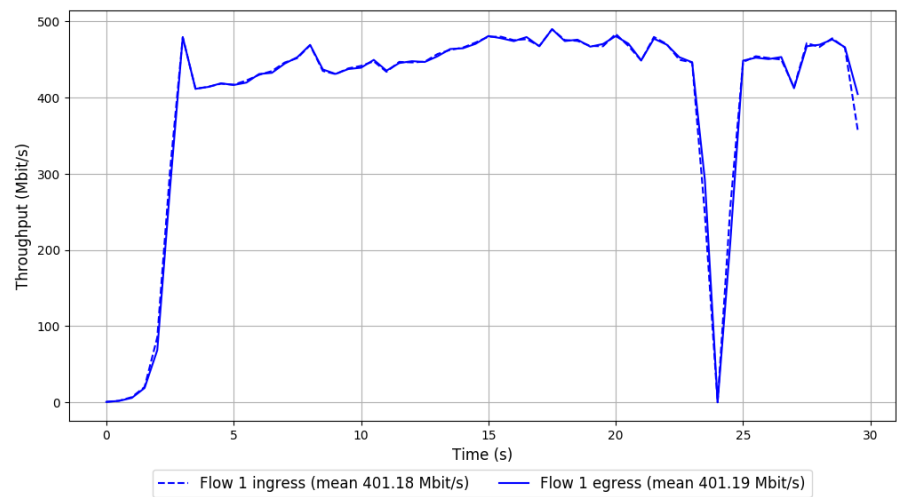
-- Flow 1:

Average throughput: 401.19 Mbit/s

95th percentile per-packet one-way delay: 50.773 ms

Loss rate: 0.00%

Run 7: Report of Vivace-loss — Data Link



Run 8: Statistics of Vivace-loss

Start at: 2018-02-27 18:51:07

End at: 2018-02-27 18:51:37

Below is generated by plot.py at 2018-02-27 22:35:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 448.94 Mbit/s

95th percentile per-packet one-way delay: 164.119 ms

Loss rate: 0.72%

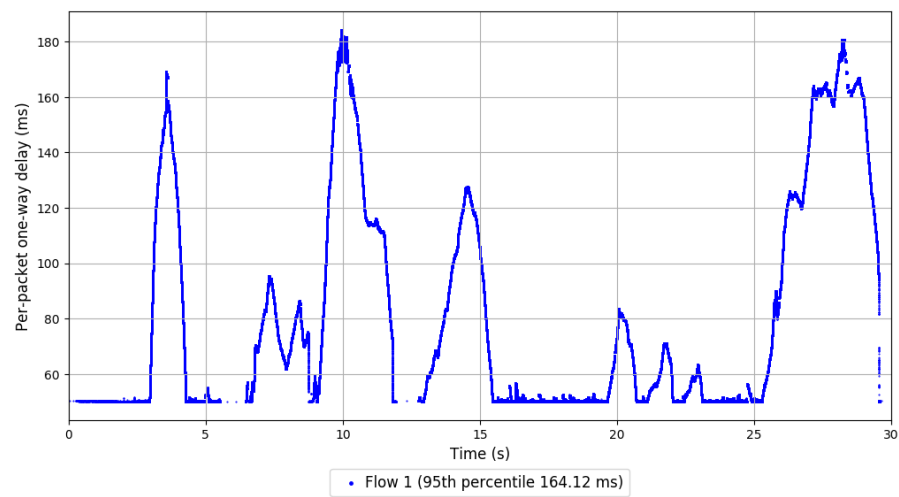
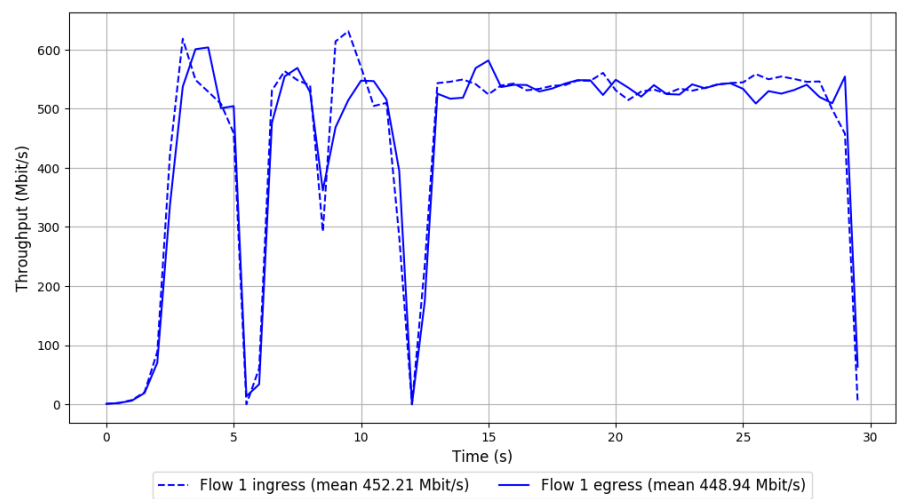
-- Flow 1:

Average throughput: 448.94 Mbit/s

95th percentile per-packet one-way delay: 164.119 ms

Loss rate: 0.72%

Run 8: Report of Vivace-loss — Data Link



Run 9: Statistics of Vivace-loss

Start at: 2018-02-27 19:05:58

End at: 2018-02-27 19:06:28

Below is generated by plot.py at 2018-02-27 22:37:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 460.98 Mbit/s

95th percentile per-packet one-way delay: 77.049 ms

Loss rate: 0.00%

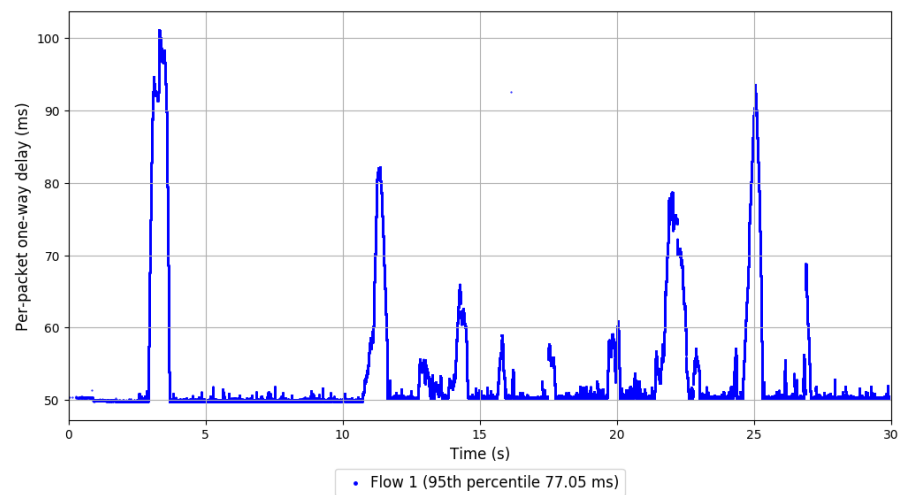
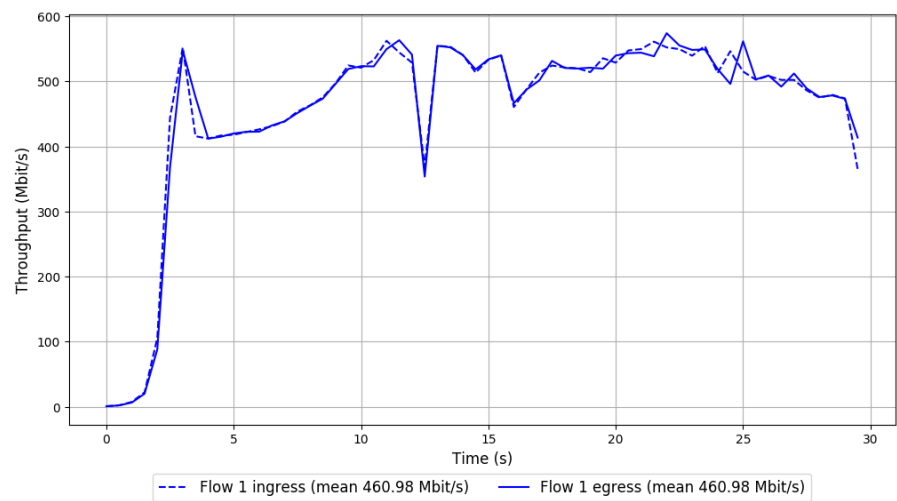
-- Flow 1:

Average throughput: 460.98 Mbit/s

95th percentile per-packet one-way delay: 77.049 ms

Loss rate: 0.00%

Run 9: Report of Vivace-loss — Data Link



Run 10: Statistics of Vivace-loss

Start at: 2018-02-27 19:20:40

End at: 2018-02-27 19:21:11

Below is generated by plot.py at 2018-02-27 22:37:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 418.41 Mbit/s

95th percentile per-packet one-way delay: 184.020 ms

Loss rate: 3.23%

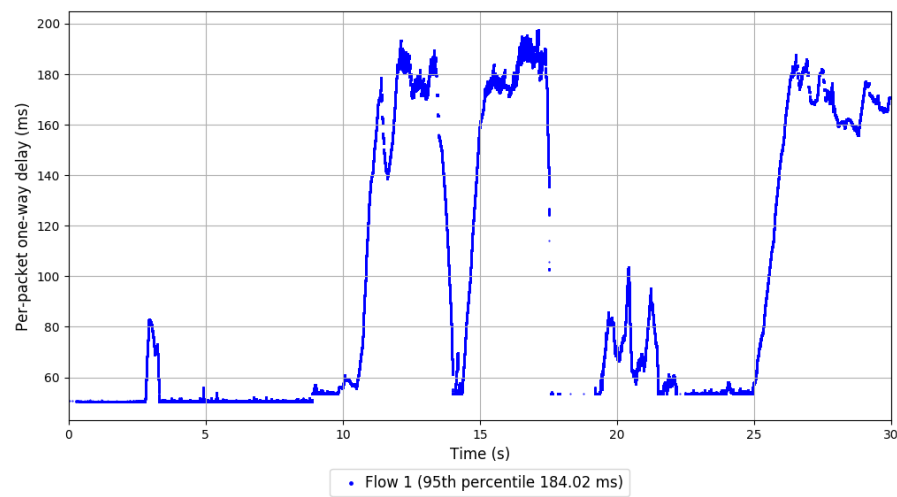
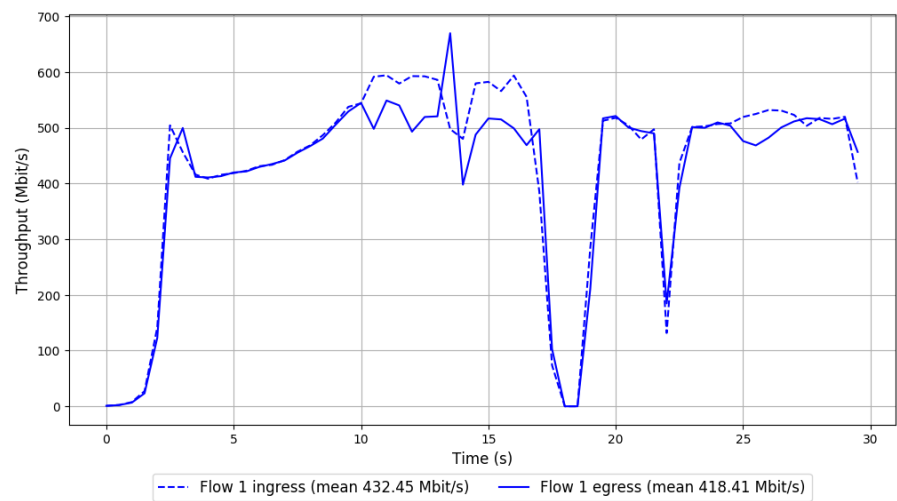
-- Flow 1:

Average throughput: 418.41 Mbit/s

95th percentile per-packet one-way delay: 184.020 ms

Loss rate: 3.23%

Run 10: Report of Vivace-loss — Data Link

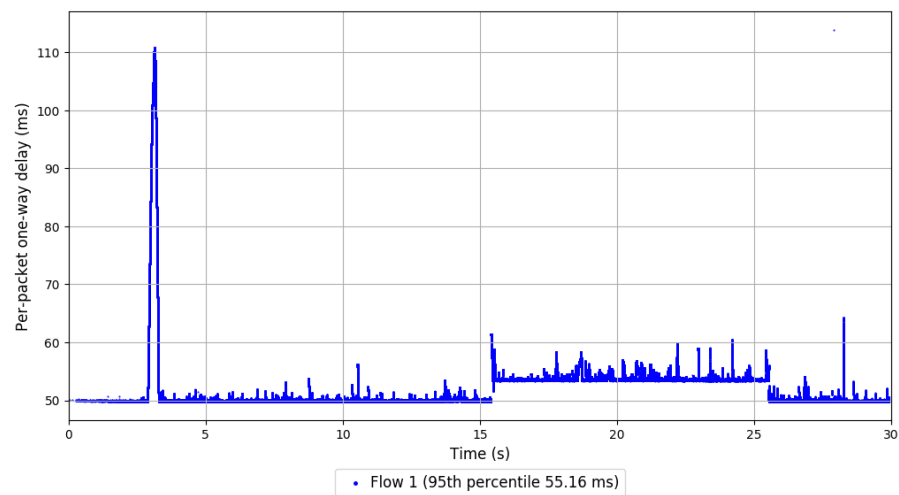
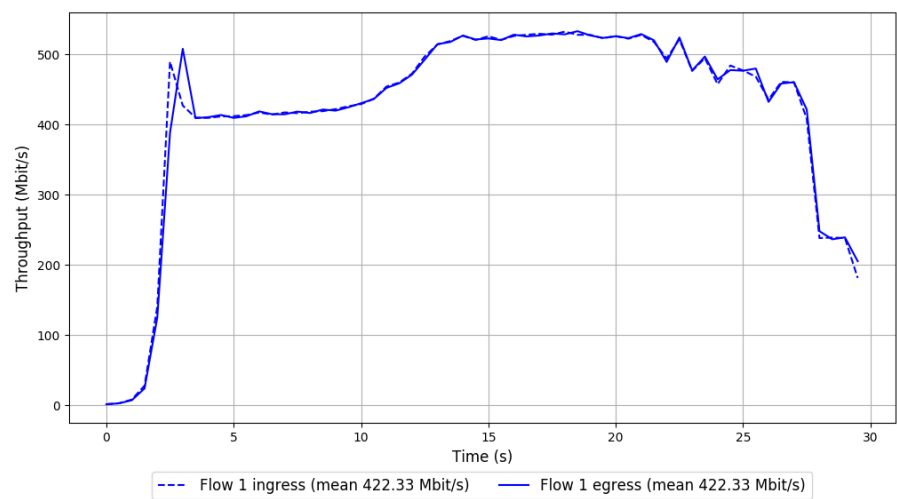


```
Run 1: Statistics of Vivace-LTE

Start at: 2018-02-27 17:07:24
End at: 2018-02-27 17:07:54

# Below is generated by plot.py at 2018-02-27 22:38:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 422.33 Mbit/s
95th percentile per-packet one-way delay: 55.157 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 422.33 Mbit/s
95th percentile per-packet one-way delay: 55.157 ms
Loss rate: 0.00%
```


Run 1: Report of Vivace-LTE — Data Link



Run 2: Statistics of Vivace-LTE

Start at: 2018-02-27 17:22:08

End at: 2018-02-27 17:22:38

Below is generated by plot.py at 2018-02-27 22:41:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 451.65 Mbit/s

95th percentile per-packet one-way delay: 69.684 ms

Loss rate: 0.01%

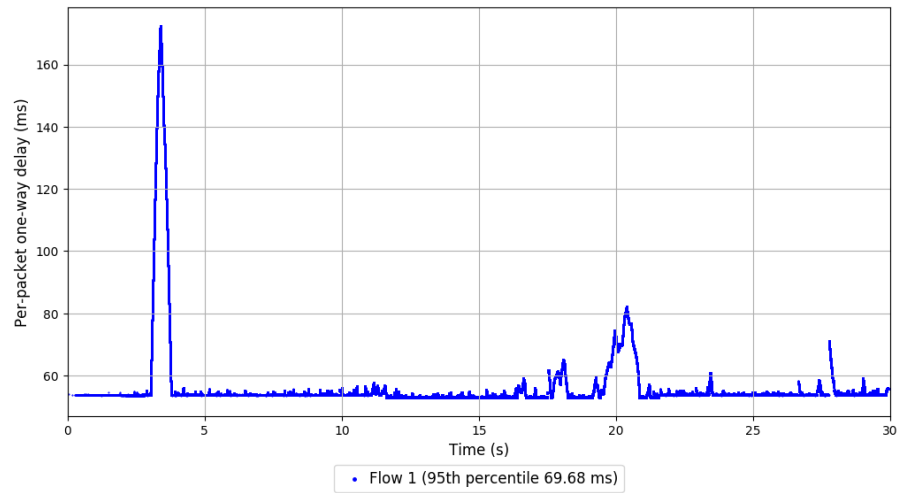
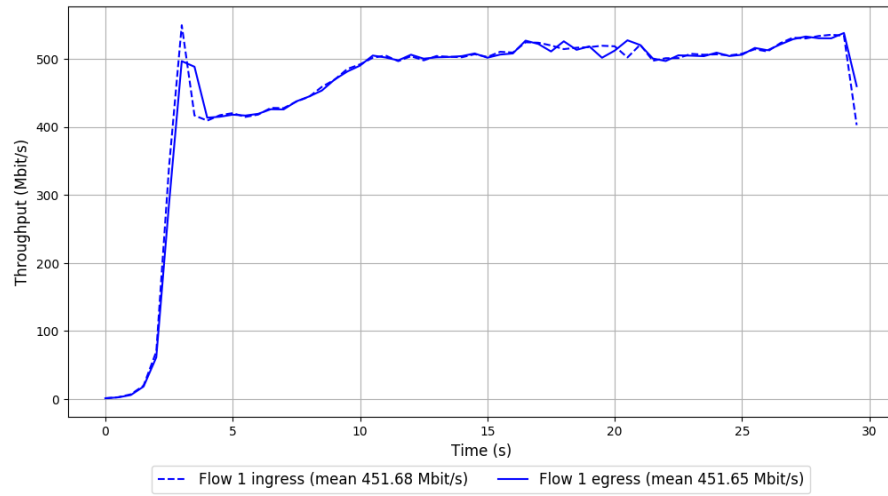
-- Flow 1:

Average throughput: 451.65 Mbit/s

95th percentile per-packet one-way delay: 69.684 ms

Loss rate: 0.01%

Run 2: Report of Vivace-LTE — Data Link



Run 3: Statistics of Vivace-LTE

Start at: 2018-02-27 17:36:51

End at: 2018-02-27 17:37:21

Below is generated by plot.py at 2018-02-27 22:41:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 424.83 Mbit/s

95th percentile per-packet one-way delay: 56.181 ms

Loss rate: 0.01%

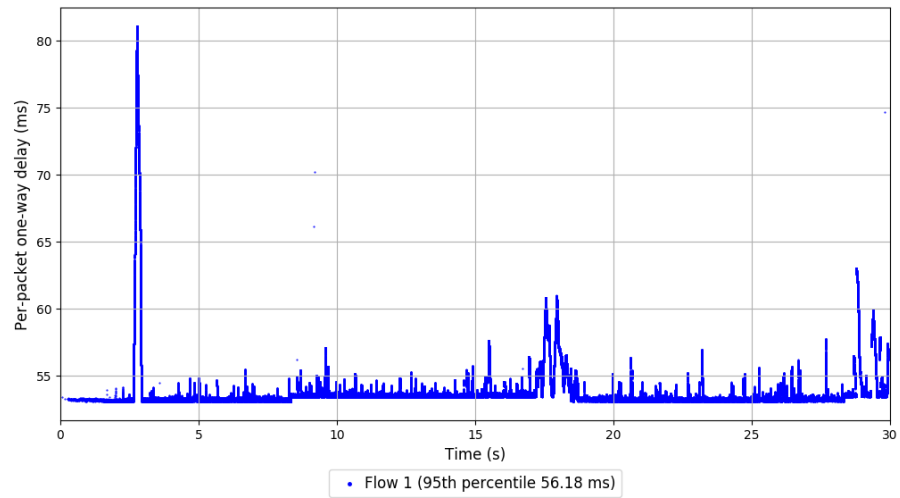
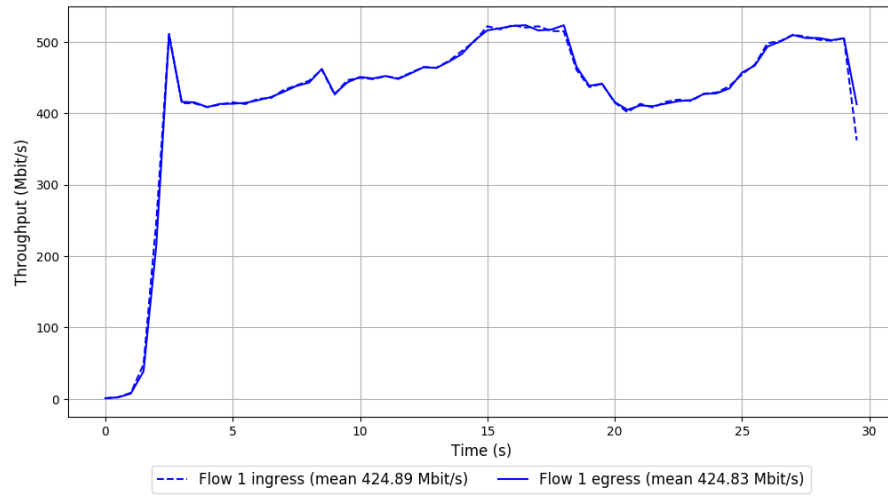
-- Flow 1:

Average throughput: 424.83 Mbit/s

95th percentile per-packet one-way delay: 56.181 ms

Loss rate: 0.01%

Run 3: Report of Vivace-LTE — Data Link



Run 4: Statistics of Vivace-LTE

Start at: 2018-02-27 17:51:37

End at: 2018-02-27 17:52:07

Below is generated by plot.py at 2018-02-27 22:41:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 434.71 Mbit/s

95th percentile per-packet one-way delay: 54.754 ms

Loss rate: 0.07%

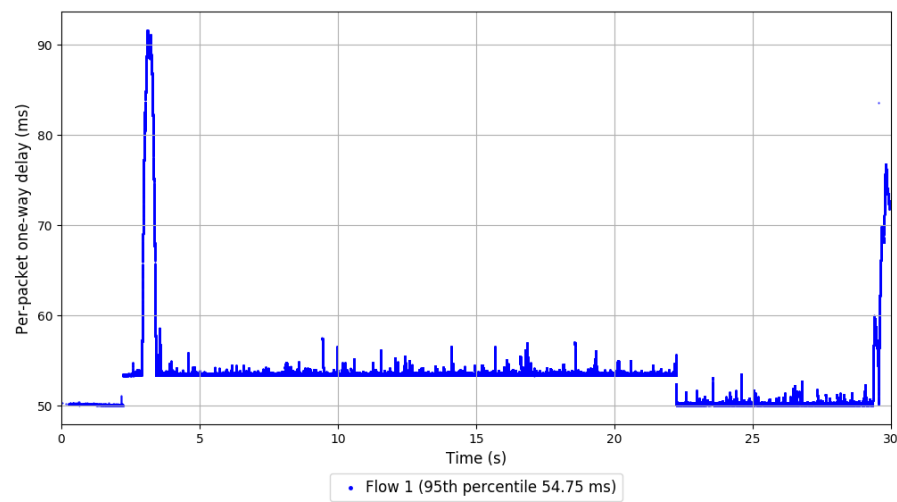
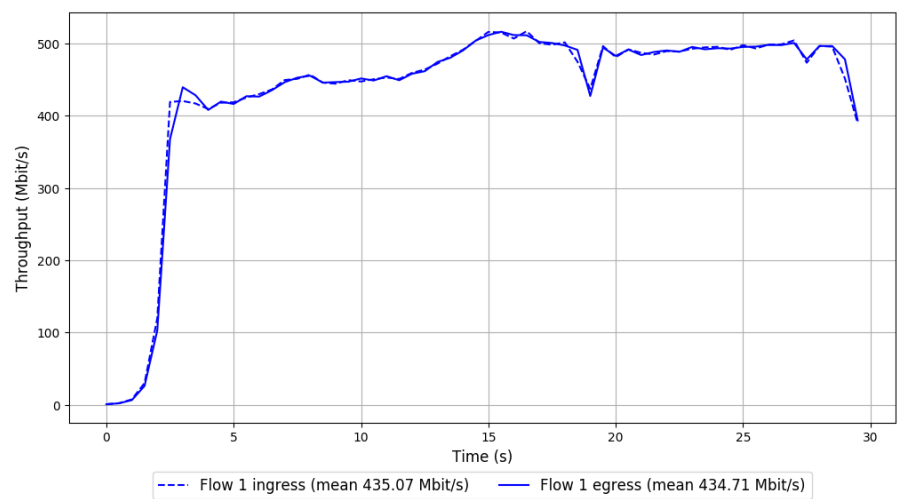
-- Flow 1:

Average throughput: 434.71 Mbit/s

95th percentile per-packet one-way delay: 54.754 ms

Loss rate: 0.07%

Run 4: Report of Vivace-LTE — Data Link



Run 5: Statistics of Vivace-LTE

Start at: 2018-02-27 18:06:04

End at: 2018-02-27 18:06:34

Below is generated by plot.py at 2018-02-27 22:42:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 406.22 Mbit/s

95th percentile per-packet one-way delay: 54.817 ms

Loss rate: 0.00%

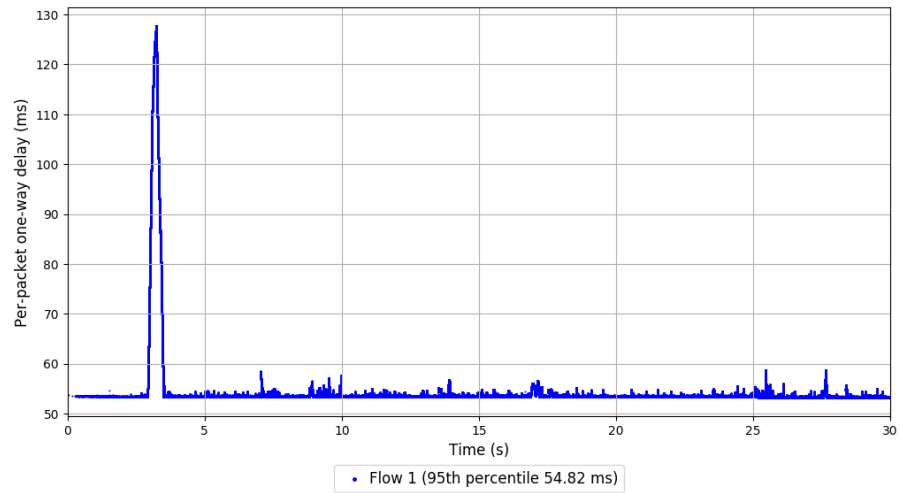
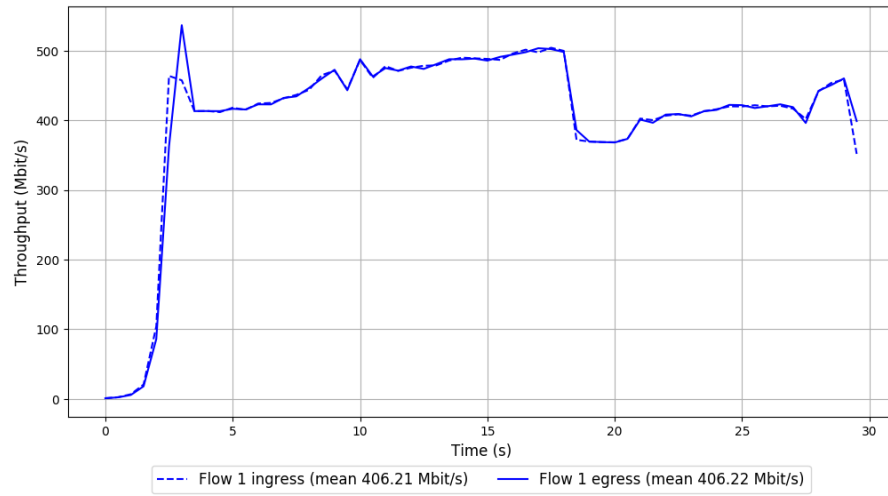
-- Flow 1:

Average throughput: 406.22 Mbit/s

95th percentile per-packet one-way delay: 54.817 ms

Loss rate: 0.00%

Run 5: Report of Vivace-LTE — Data Link



Run 6: Statistics of Vivace-LTE

Start at: 2018-02-27 18:20:27

End at: 2018-02-27 18:20:57

Below is generated by plot.py at 2018-02-27 22:42:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 415.65 Mbit/s

95th percentile per-packet one-way delay: 54.247 ms

Loss rate: 0.00%

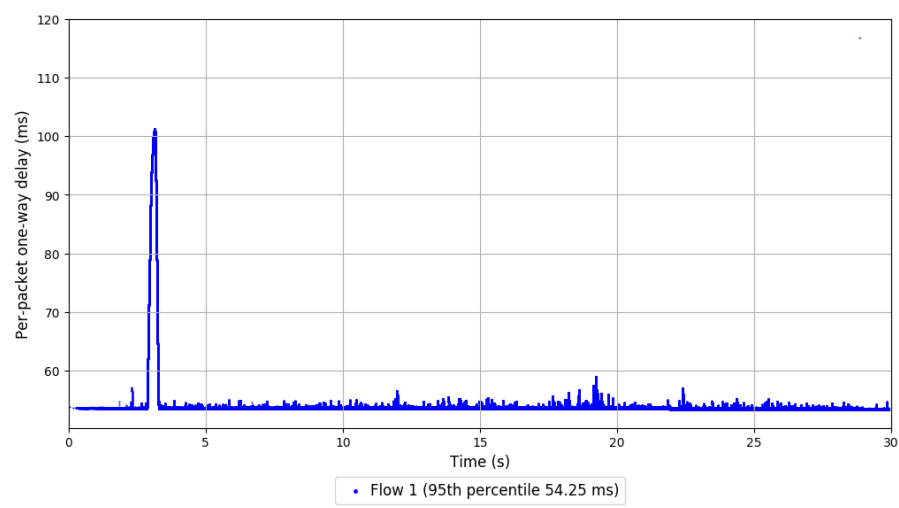
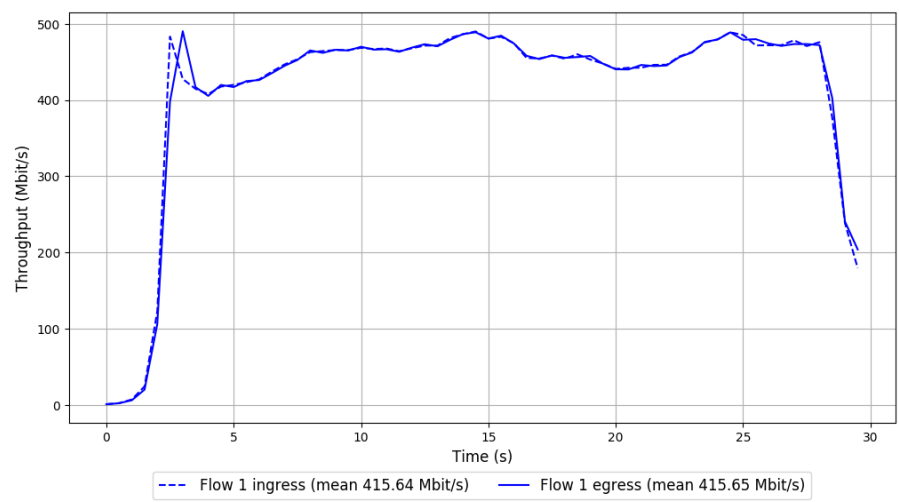
-- Flow 1:

Average throughput: 415.65 Mbit/s

95th percentile per-packet one-way delay: 54.247 ms

Loss rate: 0.00%

Run 6: Report of Vivace-LTE — Data Link



Run 7: Statistics of Vivace-LTE

Start at: 2018-02-27 18:35:18

End at: 2018-02-27 18:35:48

Below is generated by plot.py at 2018-02-27 22:43:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 445.03 Mbit/s

95th percentile per-packet one-way delay: 106.423 ms

Loss rate: 0.05%

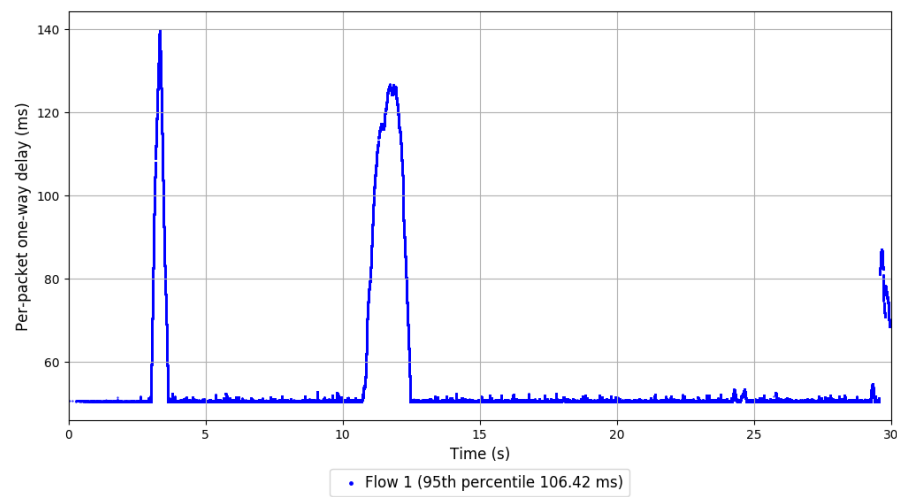
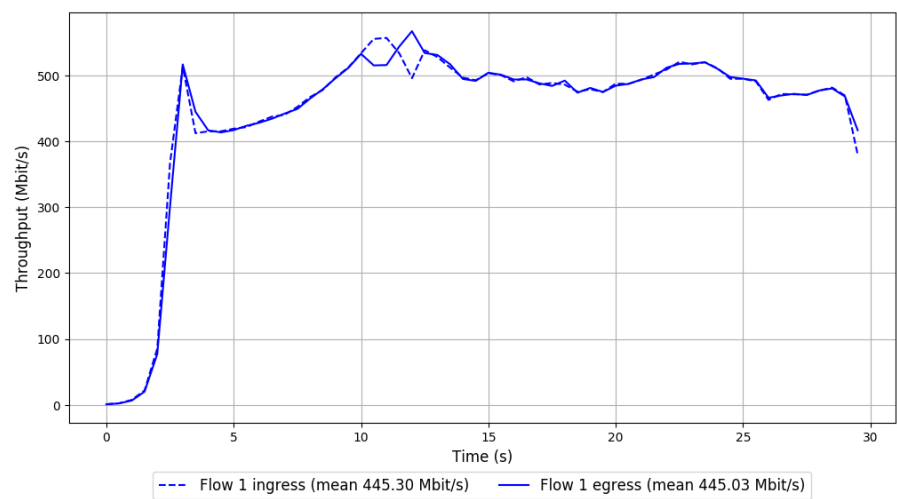
-- Flow 1:

Average throughput: 445.03 Mbit/s

95th percentile per-packet one-way delay: 106.423 ms

Loss rate: 0.05%

Run 7: Report of Vivace-LTE — Data Link



Run 8: Statistics of Vivace-LTE

Start at: 2018-02-27 18:50:08

End at: 2018-02-27 18:50:38

Below is generated by plot.py at 2018-02-27 22:43:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 354.44 Mbit/s

95th percentile per-packet one-way delay: 50.845 ms

Loss rate: 0.00%

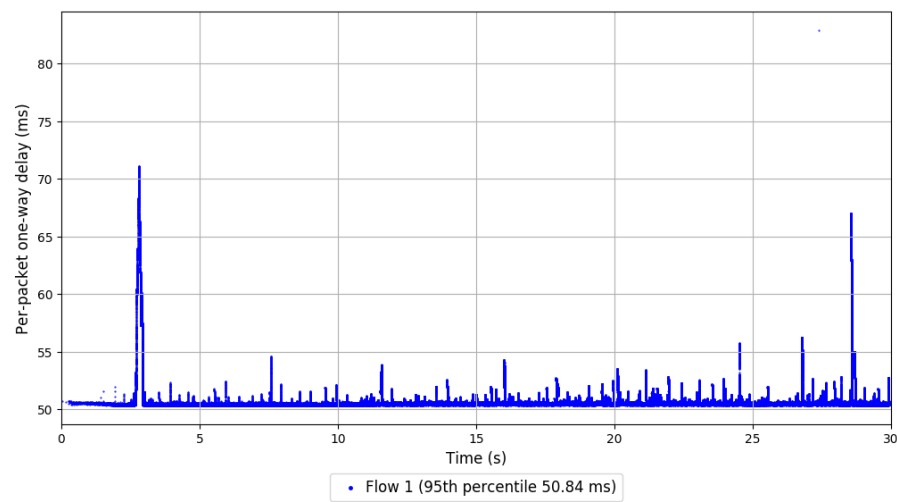
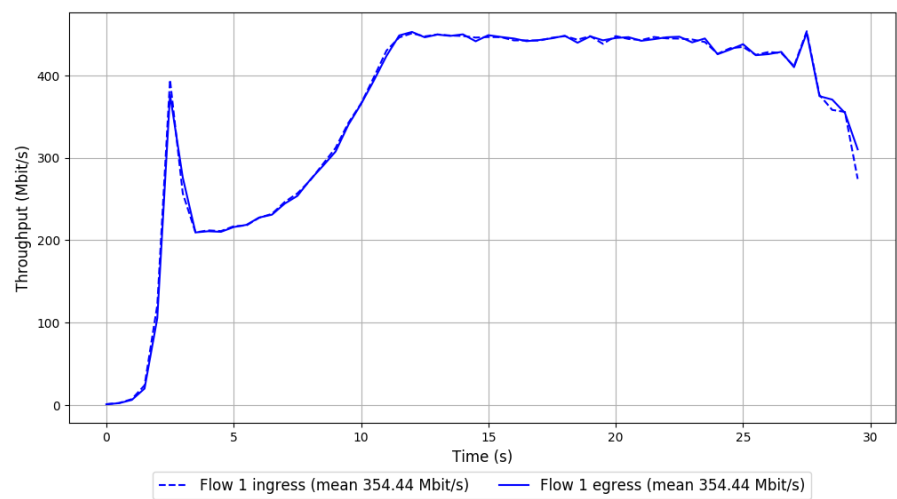
-- Flow 1:

Average throughput: 354.44 Mbit/s

95th percentile per-packet one-way delay: 50.845 ms

Loss rate: 0.00%

Run 8: Report of Vivace-LTE — Data Link



Run 9: Statistics of Vivace-LTE

Start at: 2018-02-27 19:04:53

End at: 2018-02-27 19:05:23

Below is generated by plot.py at 2018-02-27 22:43:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 443.32 Mbit/s

95th percentile per-packet one-way delay: 88.140 ms

Loss rate: 0.02%

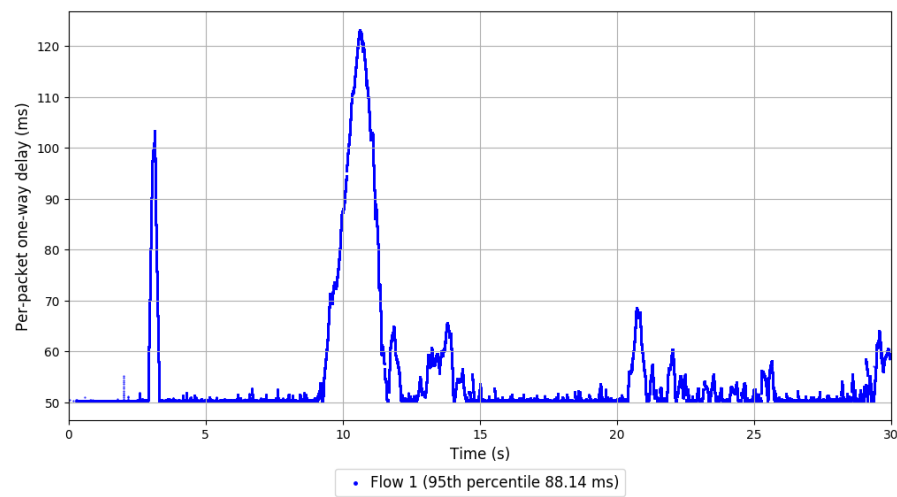
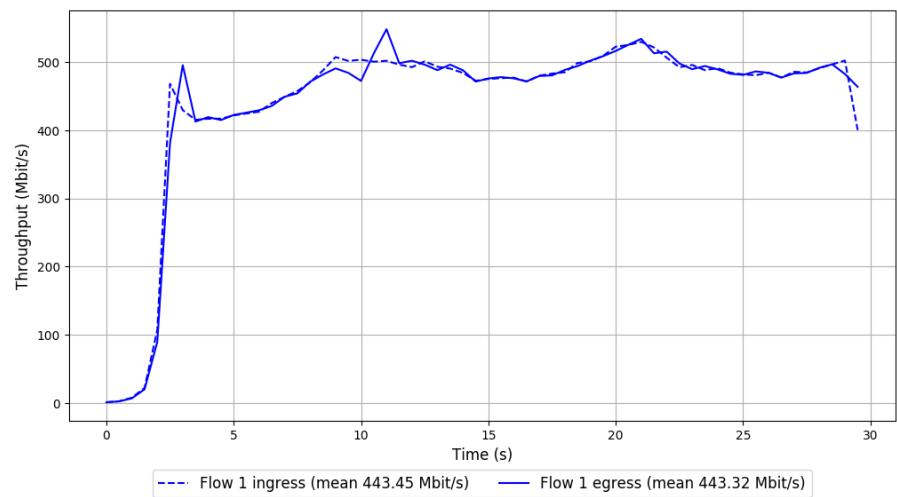
-- Flow 1:

Average throughput: 443.32 Mbit/s

95th percentile per-packet one-way delay: 88.140 ms

Loss rate: 0.02%

Run 9: Report of Vivace-LTE — Data Link



Run 10: Statistics of Vivace-LTE

Start at: 2018-02-27 19:19:36

End at: 2018-02-27 19:20:06

Below is generated by plot.py at 2018-02-27 22:43:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 438.56 Mbit/s

95th percentile per-packet one-way delay: 55.162 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 438.56 Mbit/s

95th percentile per-packet one-way delay: 55.162 ms

Loss rate: 0.00%

Run 10: Report of Vivace-LTE — Data Link

