

Pantheon Report

Generated at 2018-02-27 14:28:48 (UTC).

Data path: GCE Iowa Ethernet (*local*) → GCE Sydney Ethernet (*remote*).

Repeated the test of 17 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

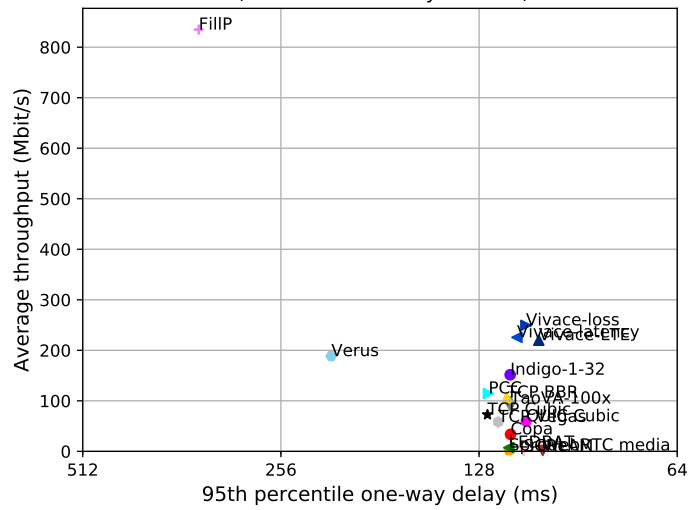
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

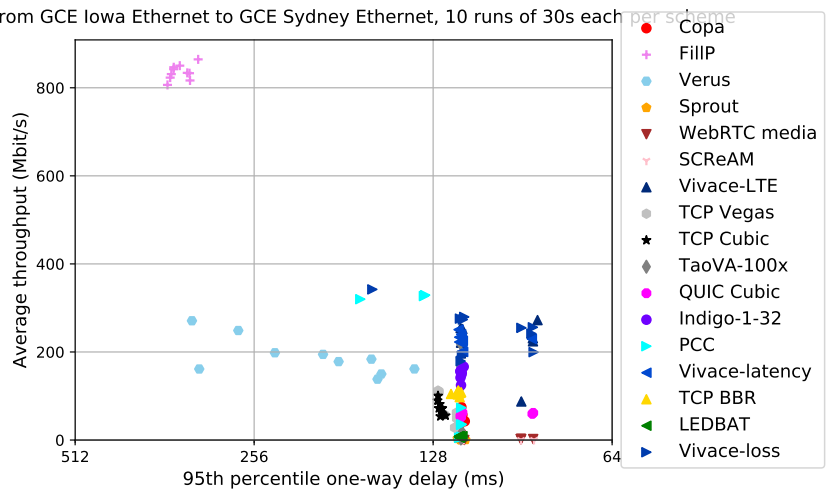
Git summary:

```
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 @ 2601c92e4aa9d58d38dc4dfe0ecd90c077e64d
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 Iowa Ethernet to GCE Sydney Ethernet, 10 runs of 30s each per scheme
(mean of all runs by scheme)



test from GCE Iowa Ethernet to GCE Sydney 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	106.37	116.17	0.00
TCP Cubic	10	72.57	124.29	0.01
LEDBAT	10	7.37	115.39	0.00
PCC	10	114.51	123.86	0.13
QUIC Cubic	9	59.42	108.58	0.00
SCReAM	10	0.22	109.52	0.00
WebRTC media	10	1.78	102.45	0.00
Sprout	10	1.79	115.27	0.00
TaoVA-100x	9	94.64	114.75	0.01
TCP Vegas	10	58.22	119.70	0.01
Verus	10	188.53	214.68	1.06
Copa	10	33.65	114.66	0.01
FillP	10	834.78	341.25	3.05
Indigo-1-32	10	151.65	114.81	0.00
Vivace-latency	10	225.60	112.12	0.01
Vivace-loss	10	249.40	108.65	0.02
Vivace-LTE	10	220.02	103.87	0.01

Run 1: Statistics of TCP BBR

Start at: 2018-02-27 08:50:07

End at: 2018-02-27 08:50:37

Below is generated by plot.py at 2018-02-27 13:02:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 108.53 Mbit/s

95th percentile per-packet one-way delay: 114.838 ms

Loss rate: 0.00%

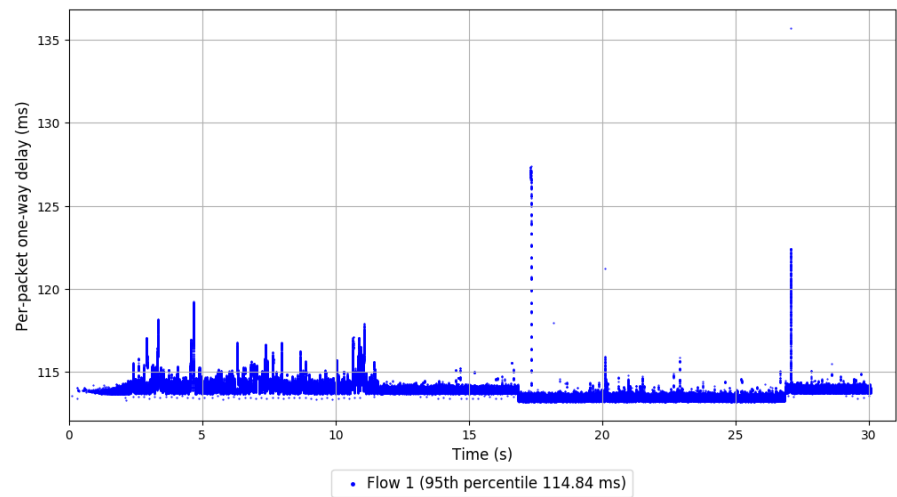
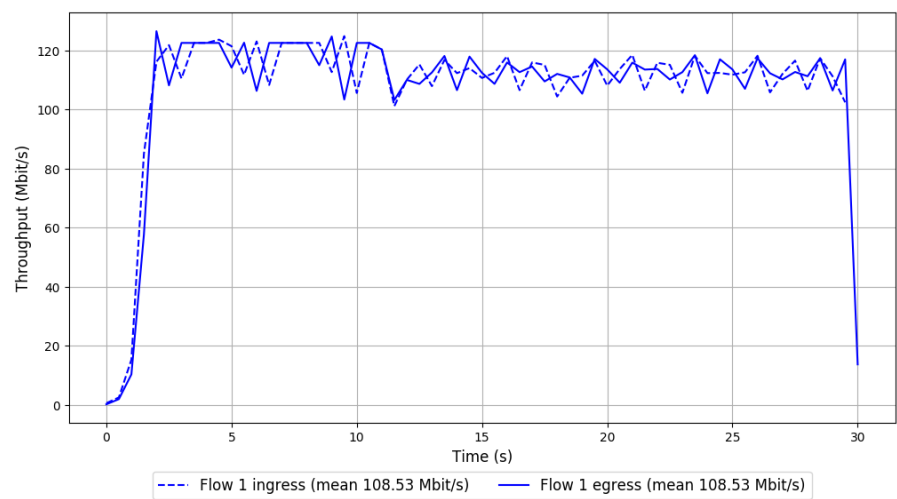
-- Flow 1:

Average throughput: 108.53 Mbit/s

95th percentile per-packet one-way delay: 114.838 ms

Loss rate: 0.00%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-02-27 09:05:02

End at: 2018-02-27 09:05:32

Below is generated by plot.py at 2018-02-27 13:02:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 112.65 Mbit/s

95th percentile per-packet one-way delay: 116.116 ms

Loss rate: 0.00%

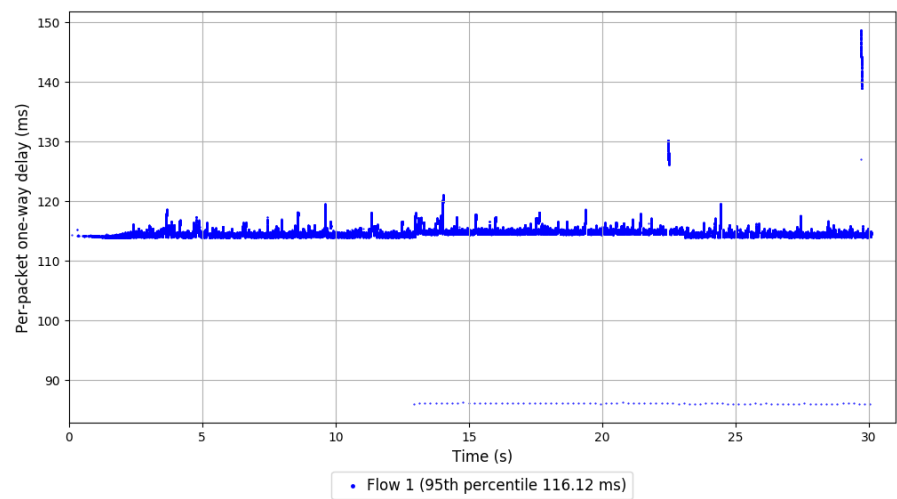
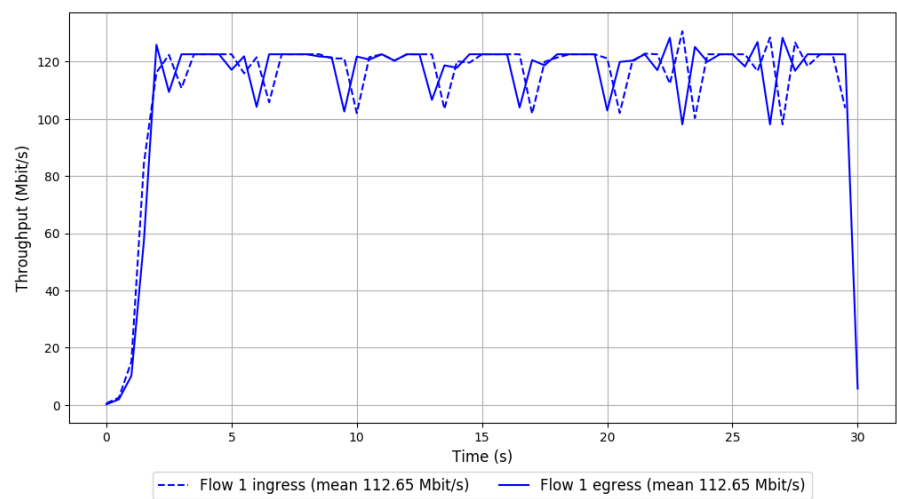
-- Flow 1:

Average throughput: 112.65 Mbit/s

95th percentile per-packet one-way delay: 116.116 ms

Loss rate: 0.00%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-02-27 09:19:38

End at: 2018-02-27 09:20:08

Below is generated by plot.py at 2018-02-27 13:02:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 107.08 Mbit/s

95th percentile per-packet one-way delay: 115.185 ms

Loss rate: 0.00%

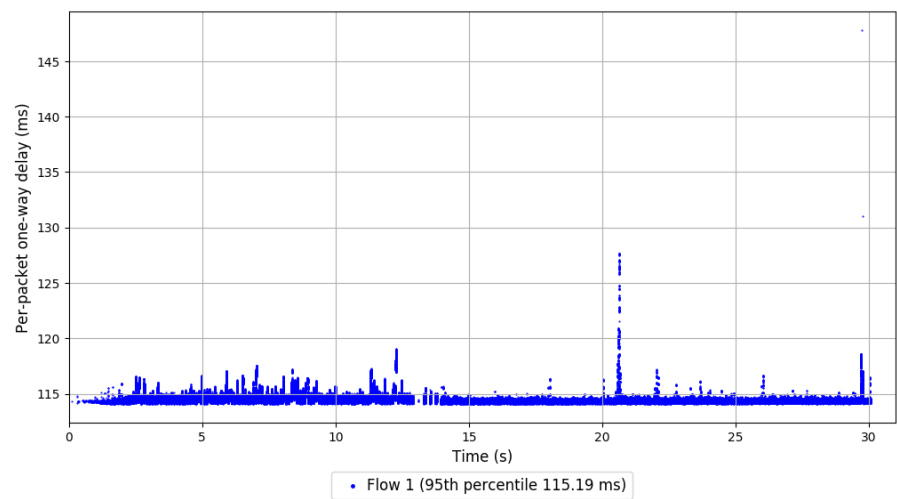
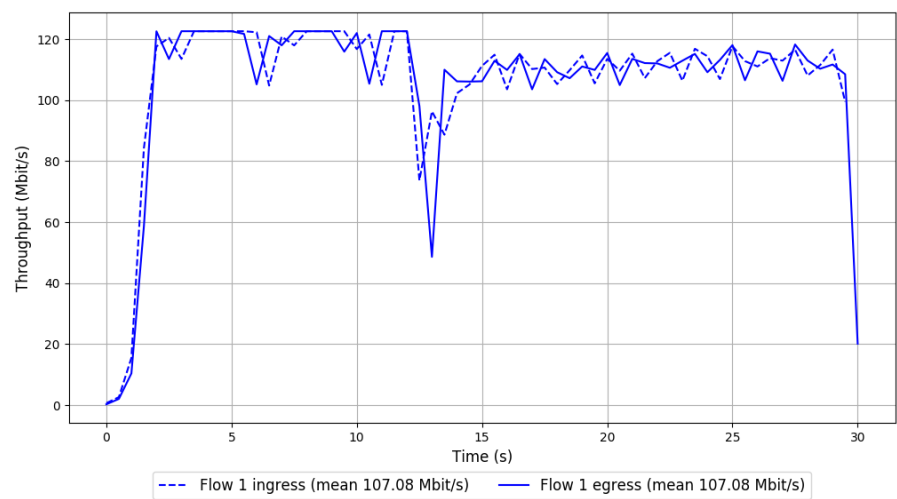
-- Flow 1:

Average throughput: 107.08 Mbit/s

95th percentile per-packet one-way delay: 115.185 ms

Loss rate: 0.00%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-02-27 09:34:12

End at: 2018-02-27 09:34:42

Below is generated by plot.py at 2018-02-27 13:02:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 109.09 Mbit/s

95th percentile per-packet one-way delay: 115.732 ms

Loss rate: 0.04%

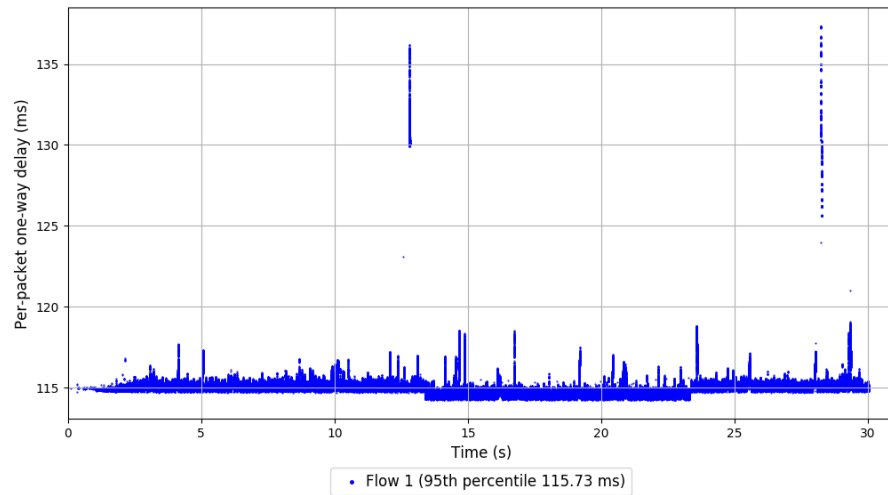
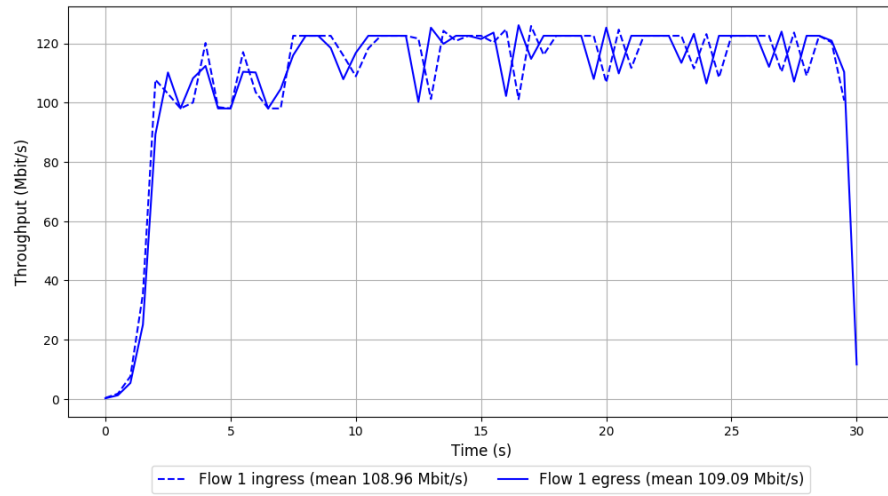
-- Flow 1:

Average throughput: 109.09 Mbit/s

95th percentile per-packet one-way delay: 115.732 ms

Loss rate: 0.04%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-02-27 09:49:03

End at: 2018-02-27 09:49:33

Below is generated by plot.py at 2018-02-27 13:02:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 104.96 Mbit/s

95th percentile per-packet one-way delay: 115.982 ms

Loss rate: 0.00%

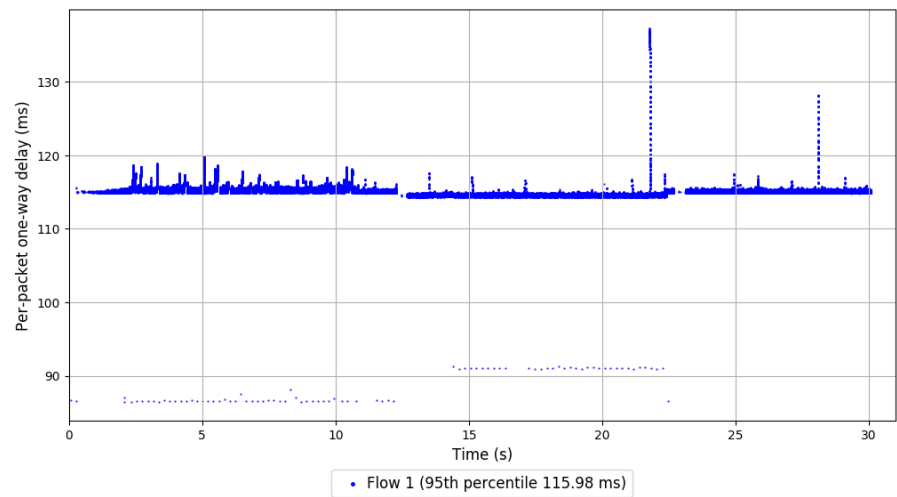
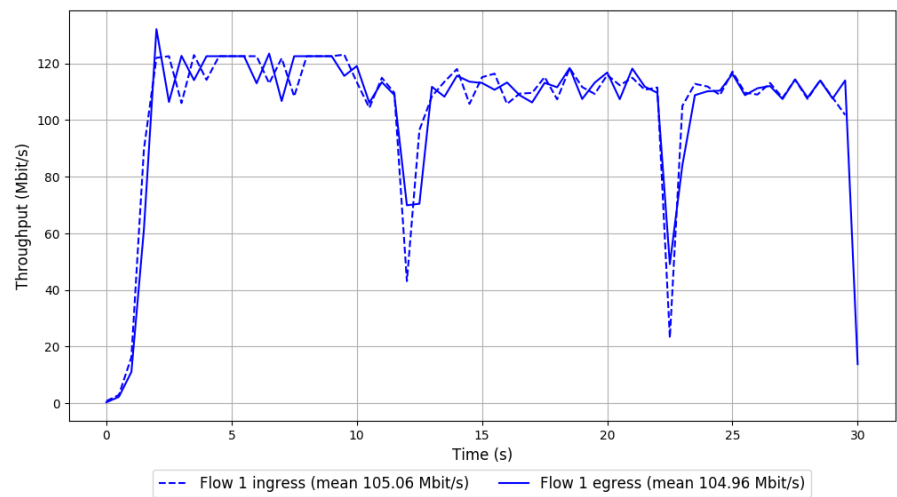
-- Flow 1:

Average throughput: 104.96 Mbit/s

95th percentile per-packet one-way delay: 115.982 ms

Loss rate: 0.00%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-02-27 10:03:44

End at: 2018-02-27 10:04:14

Below is generated by plot.py at 2018-02-27 13:02:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 104.68 Mbit/s

95th percentile per-packet one-way delay: 119.420 ms

Loss rate: 0.00%

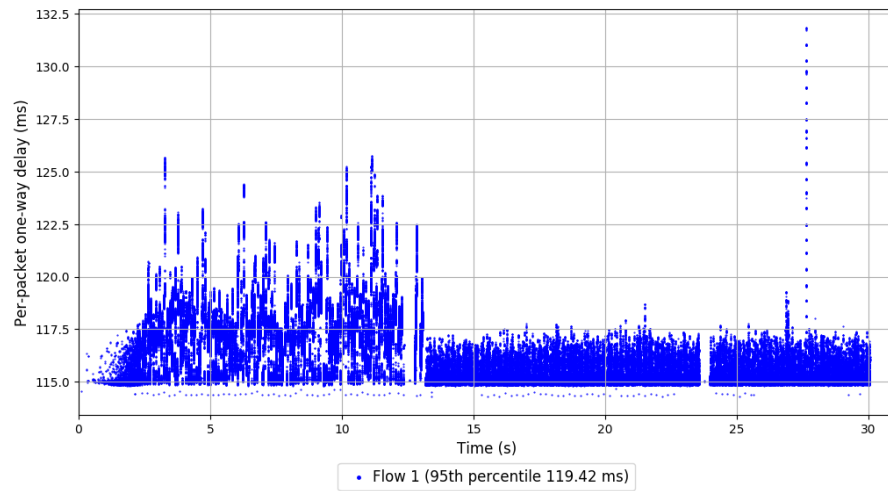
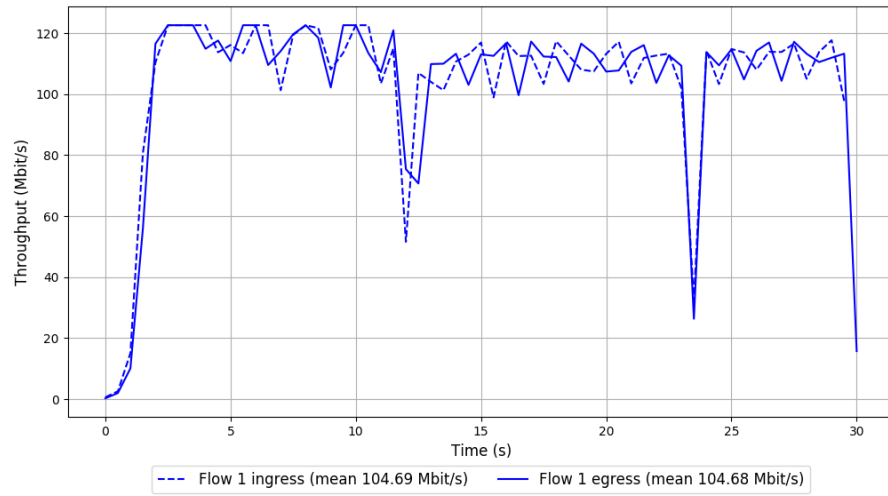
-- Flow 1:

Average throughput: 104.68 Mbit/s

95th percentile per-packet one-way delay: 119.420 ms

Loss rate: 0.00%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

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

End at: 2018-02-27 10:18:48

Below is generated by plot.py at 2018-02-27 13:02:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.48 Mbit/s

95th percentile per-packet one-way delay: 115.494 ms

Loss rate: 0.00%

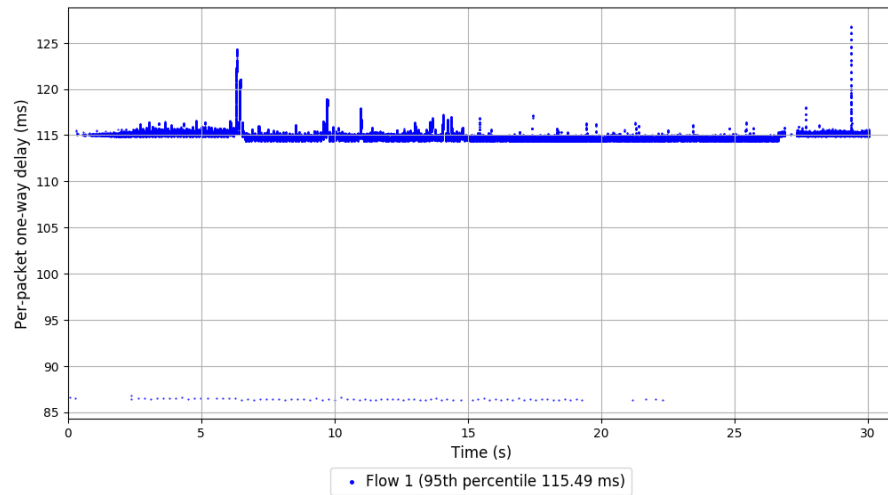
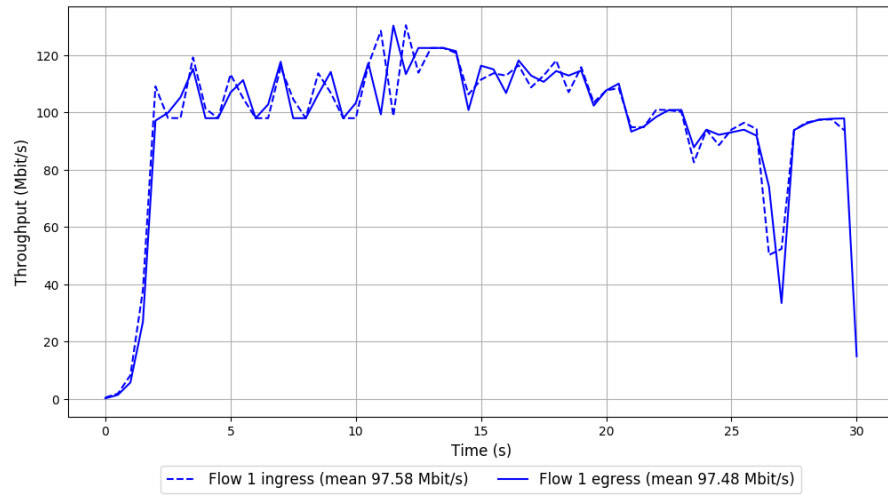
-- Flow 1:

Average throughput: 97.48 Mbit/s

95th percentile per-packet one-way delay: 115.494 ms

Loss rate: 0.00%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-02-27 10:33:30

End at: 2018-02-27 10:34:00

Below is generated by plot.py at 2018-02-27 13:02:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 108.74 Mbit/s

95th percentile per-packet one-way delay: 116.590 ms

Loss rate: 0.00%

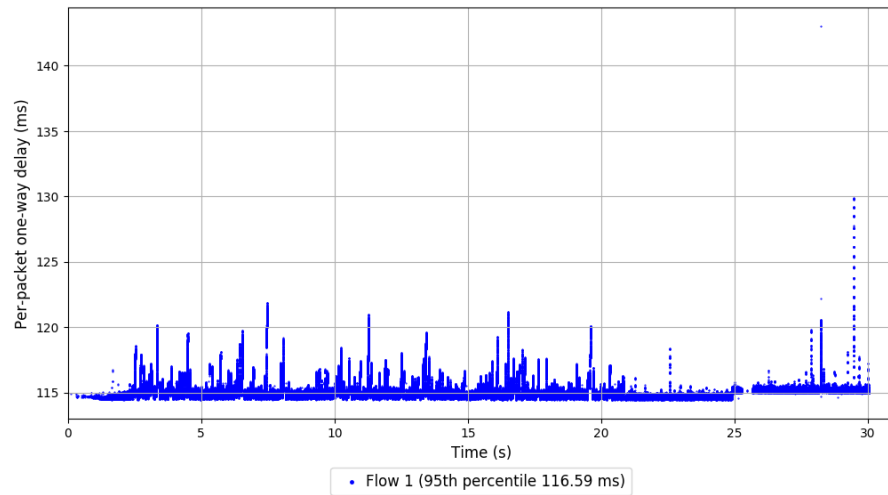
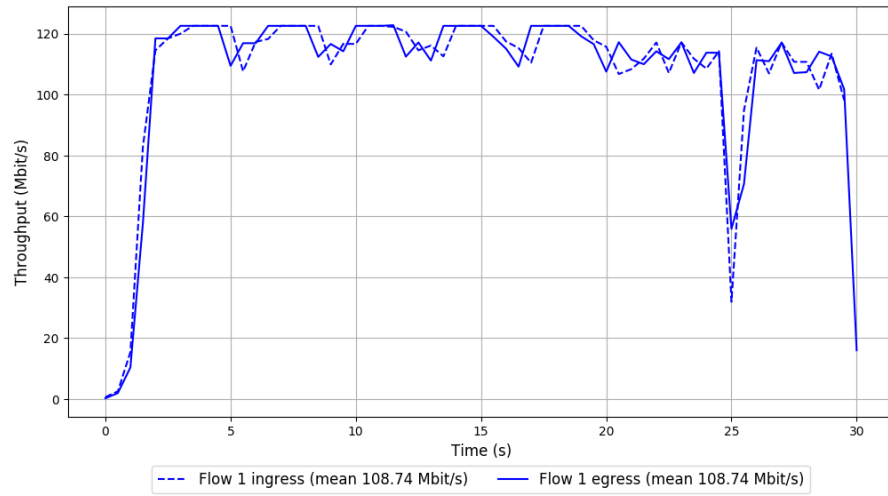
-- Flow 1:

Average throughput: 108.74 Mbit/s

95th percentile per-packet one-way delay: 116.590 ms

Loss rate: 0.00%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-02-27 10:48:21

End at: 2018-02-27 10:48:51

Below is generated by plot.py at 2018-02-27 13:04:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 103.62 Mbit/s

95th percentile per-packet one-way delay: 116.318 ms

Loss rate: 0.00%

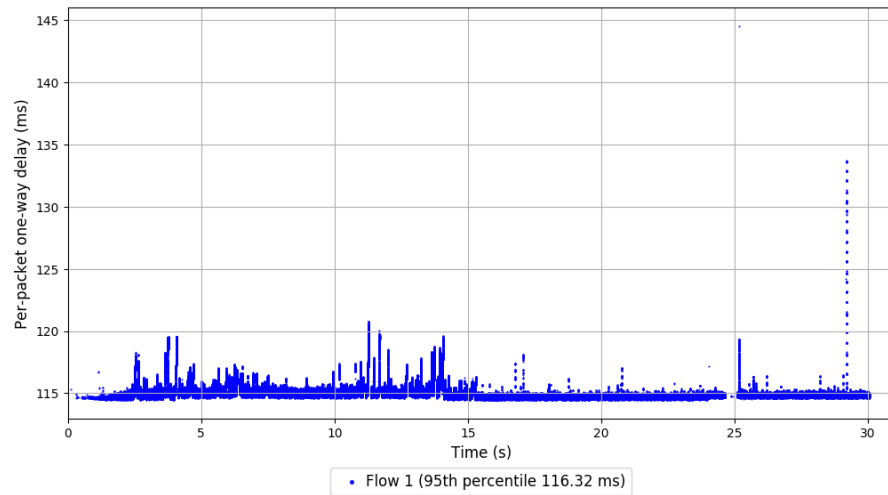
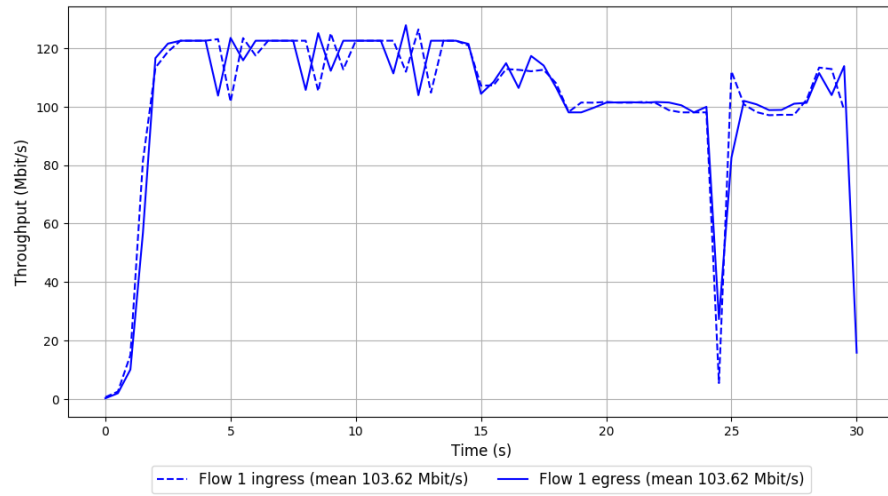
-- Flow 1:

Average throughput: 103.62 Mbit/s

95th percentile per-packet one-way delay: 116.318 ms

Loss rate: 0.00%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-02-27 11:03:15

End at: 2018-02-27 11:03:45

Below is generated by plot.py at 2018-02-27 13:05:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 106.91 Mbit/s

95th percentile per-packet one-way delay: 116.041 ms

Loss rate: 0.00%

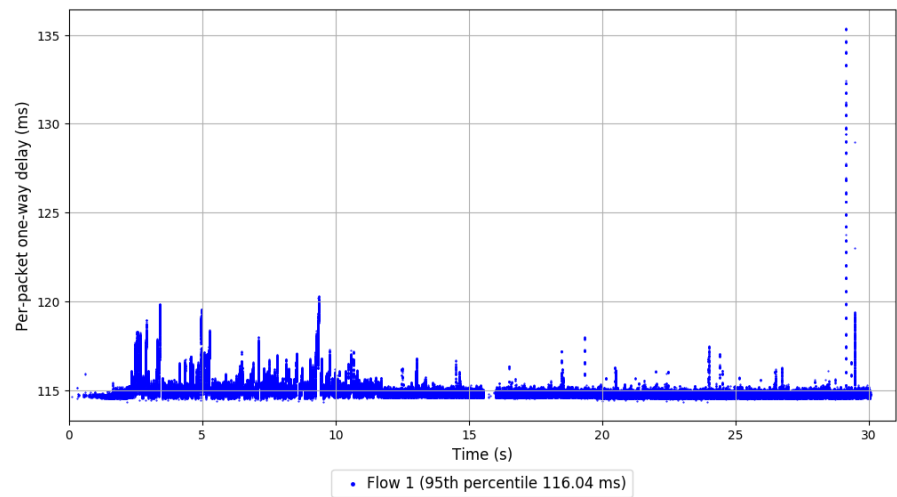
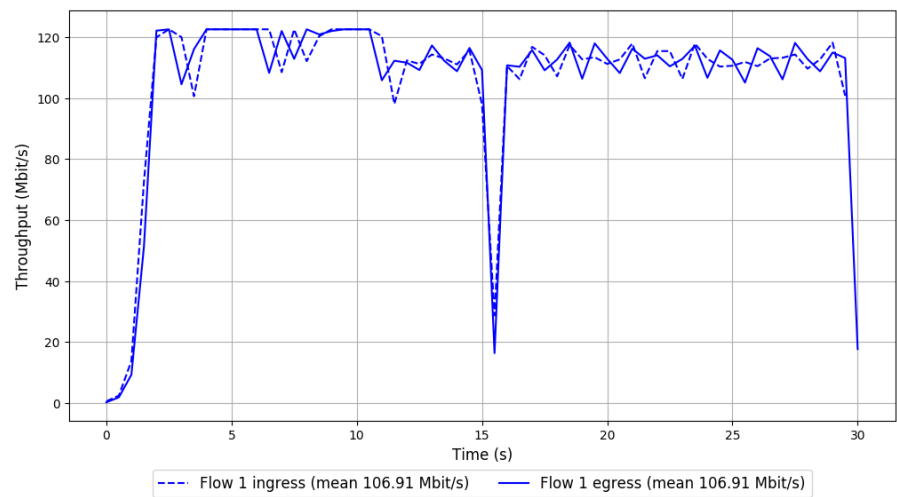
-- Flow 1:

Average throughput: 106.91 Mbit/s

95th percentile per-packet one-way delay: 116.041 ms

Loss rate: 0.00%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-02-27 08:54:03

End at: 2018-02-27 08:54:33

Below is generated by plot.py at 2018-02-27 13:05:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 81.44 Mbit/s

95th percentile per-packet one-way delay: 124.772 ms

Loss rate: 0.00%

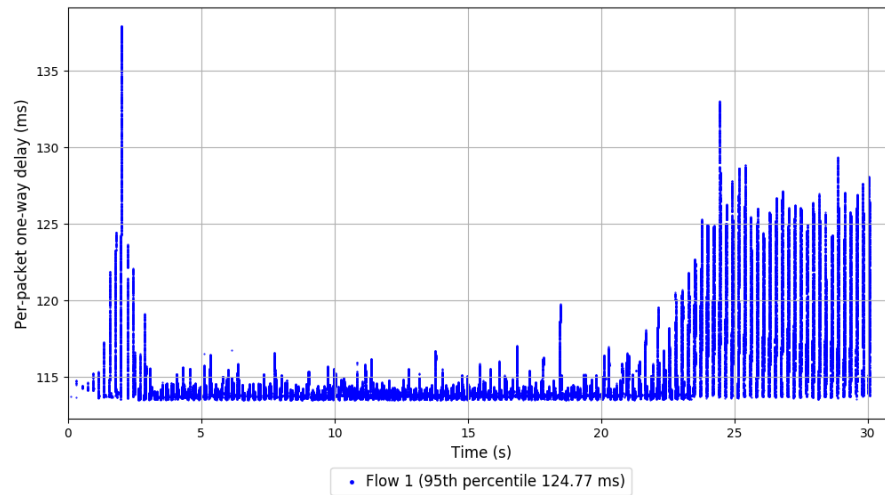
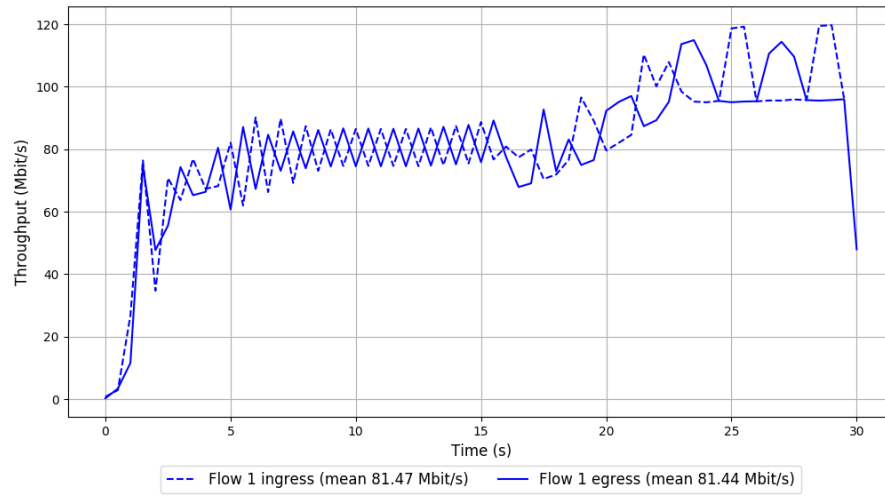
-- Flow 1:

Average throughput: 81.44 Mbit/s

95th percentile per-packet one-way delay: 124.772 ms

Loss rate: 0.00%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-02-27 09:08:50

End at: 2018-02-27 09:09:20

Below is generated by plot.py at 2018-02-27 13:05:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 55.45 Mbit/s

95th percentile per-packet one-way delay: 121.983 ms

Loss rate: 0.00%

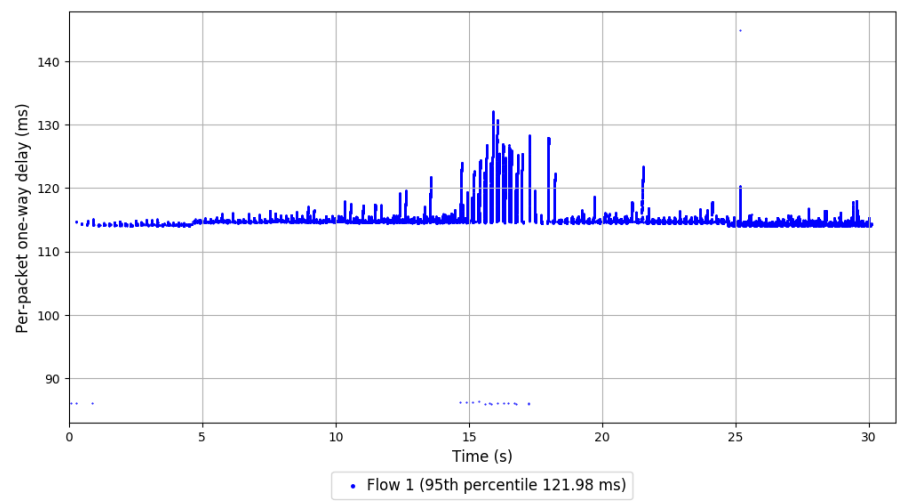
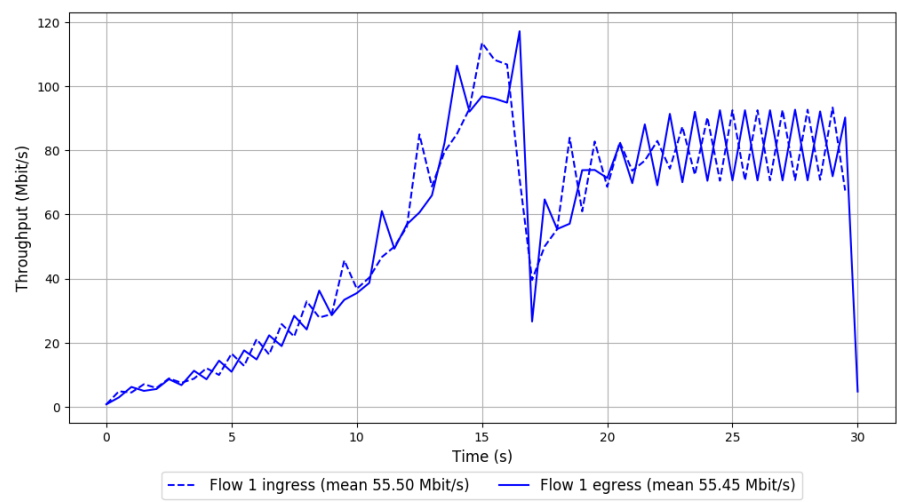
-- Flow 1:

Average throughput: 55.45 Mbit/s

95th percentile per-packet one-way delay: 121.983 ms

Loss rate: 0.00%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-02-27 09:23:26

End at: 2018-02-27 09:23:56

Below is generated by plot.py at 2018-02-27 13:05:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 53.71 Mbit/s

95th percentile per-packet one-way delay: 124.473 ms

Loss rate: 0.13%

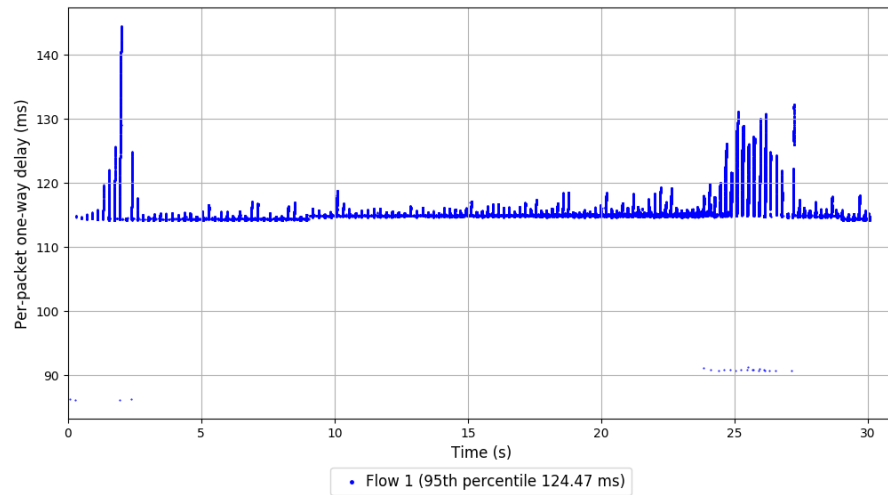
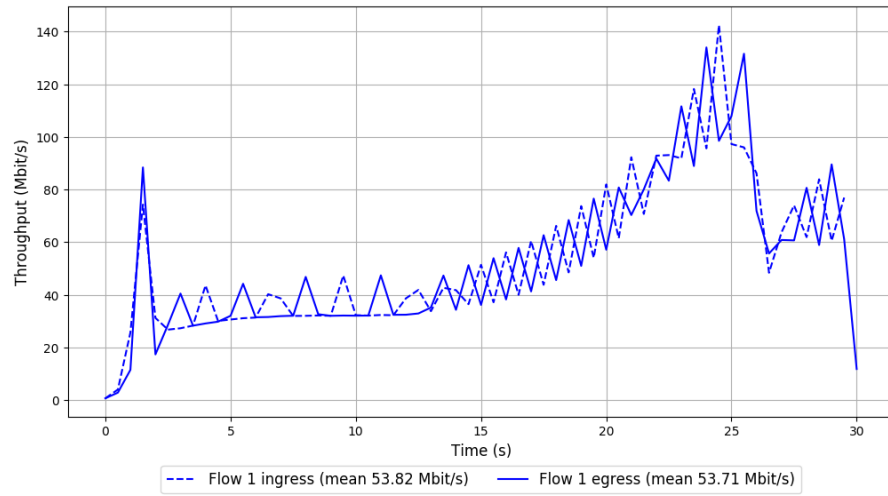
-- Flow 1:

Average throughput: 53.71 Mbit/s

95th percentile per-packet one-way delay: 124.473 ms

Loss rate: 0.13%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-02-27 09:38:02

End at: 2018-02-27 09:38:32

Below is generated by plot.py at 2018-02-27 13:05:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.08 Mbit/s

95th percentile per-packet one-way delay: 125.219 ms

Loss rate: 0.00%

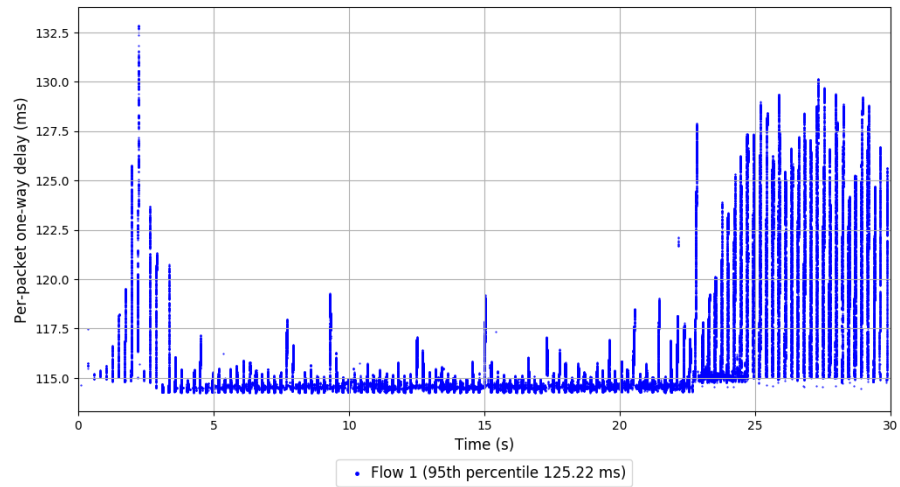
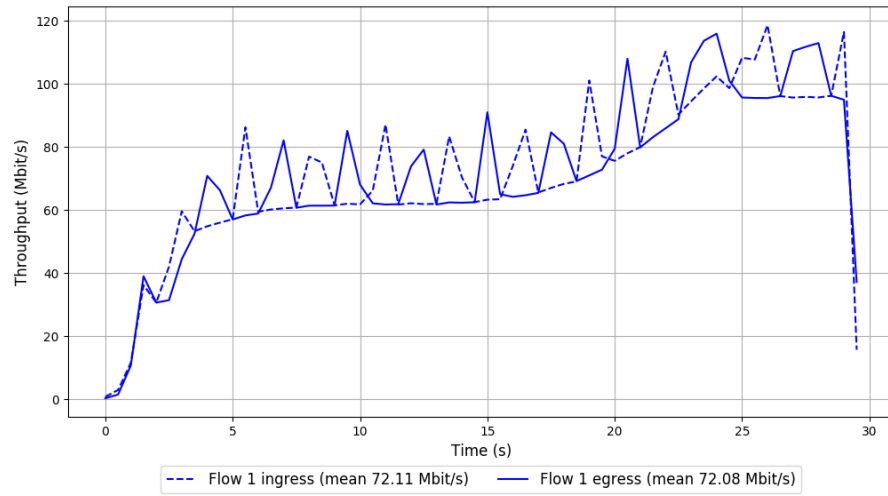
-- Flow 1:

Average throughput: 72.08 Mbit/s

95th percentile per-packet one-way delay: 125.219 ms

Loss rate: 0.00%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-02-27 09:52:53

End at: 2018-02-27 09:53:23

Below is generated by plot.py at 2018-02-27 13:05:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.52 Mbit/s

95th percentile per-packet one-way delay: 125.847 ms

Loss rate: 0.00%

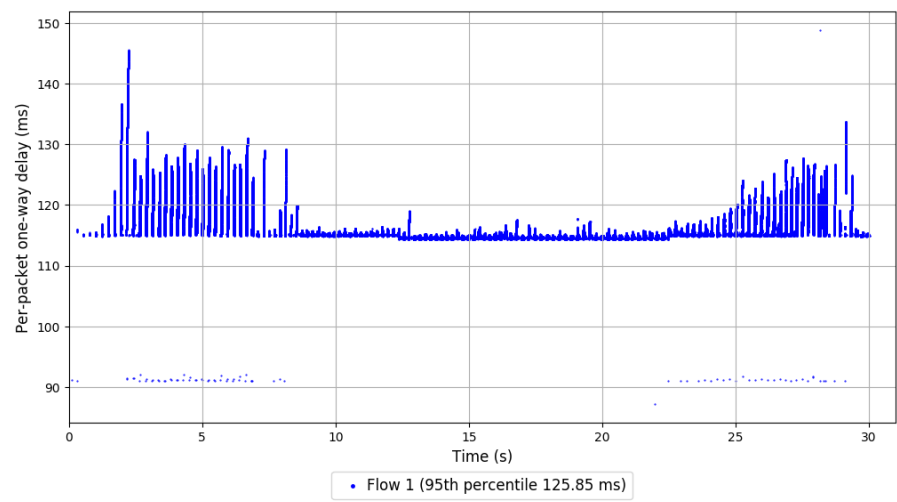
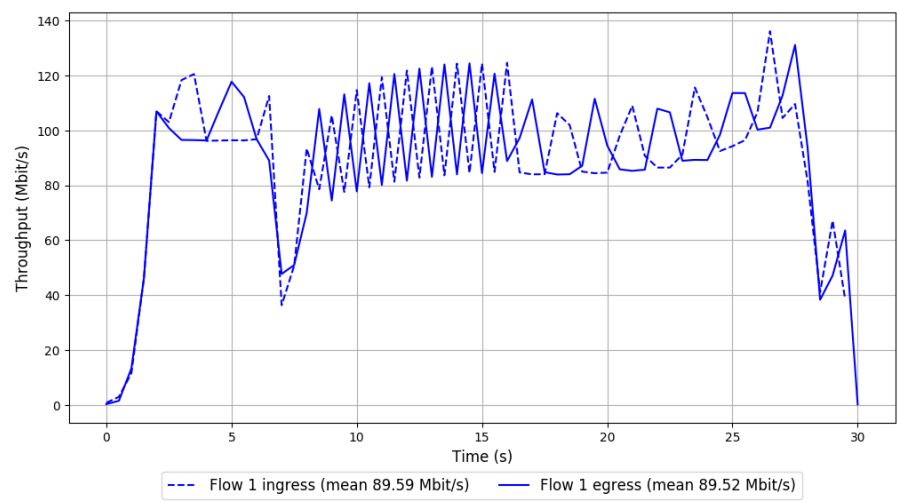
-- Flow 1:

Average throughput: 89.52 Mbit/s

95th percentile per-packet one-way delay: 125.847 ms

Loss rate: 0.00%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-02-27 10:07:32

End at: 2018-02-27 10:08:02

Below is generated by plot.py at 2018-02-27 13:05:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.03 Mbit/s

95th percentile per-packet one-way delay: 123.601 ms

Loss rate: 0.00%

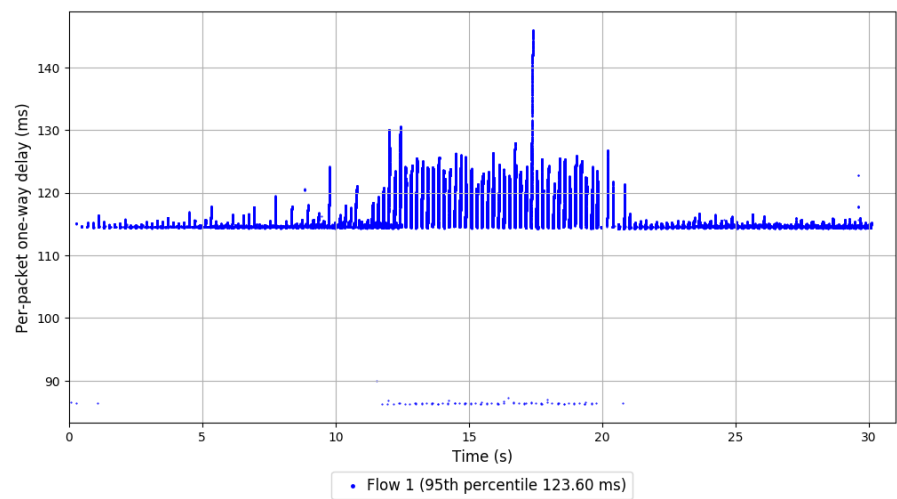
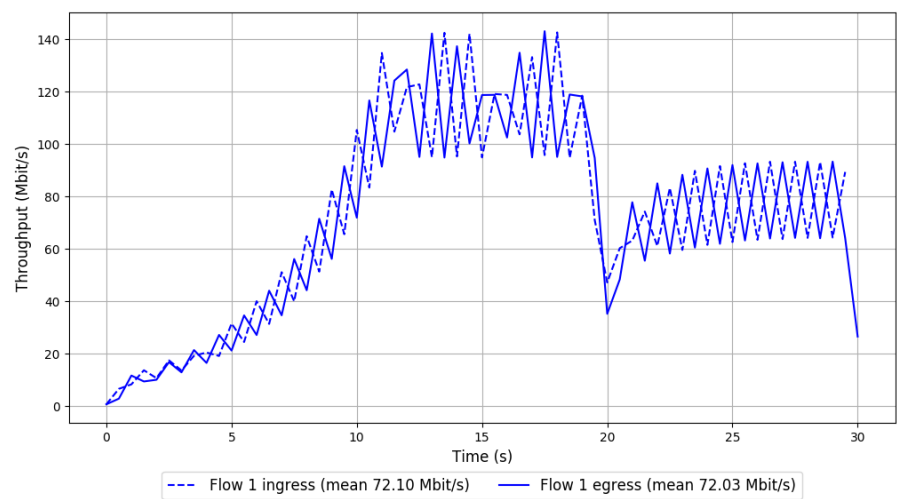
-- Flow 1:

Average throughput: 72.03 Mbit/s

95th percentile per-packet one-way delay: 123.601 ms

Loss rate: 0.00%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-02-27 10:22:17

End at: 2018-02-27 10:22:47

Below is generated by plot.py at 2018-02-27 13:07:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 100.50 Mbit/s

95th percentile per-packet one-way delay: 125.594 ms

Loss rate: 0.00%

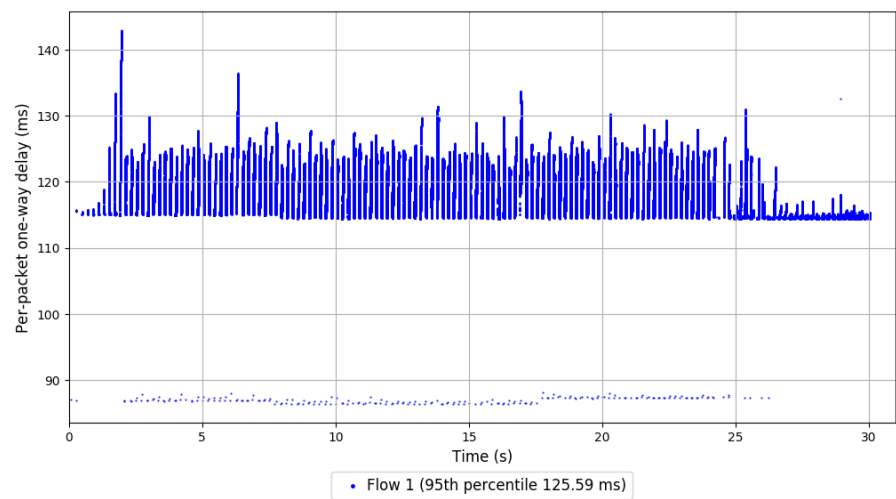
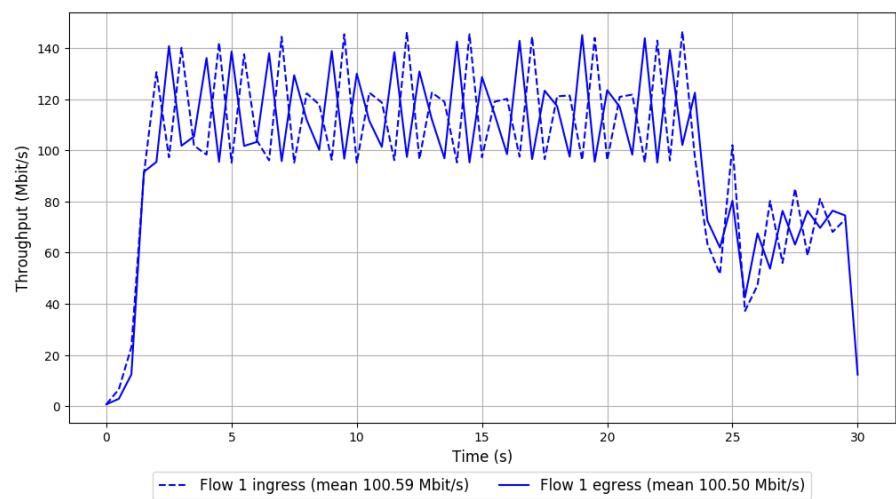
-- Flow 1:

Average throughput: 100.50 Mbit/s

95th percentile per-packet one-way delay: 125.594 ms

Loss rate: 0.00%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-02-27 10:37:33

End at: 2018-02-27 10:38:03

Below is generated by plot.py at 2018-02-27 13:07:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 58.24 Mbit/s

95th percentile per-packet one-way delay: 123.356 ms

Loss rate: 0.00%

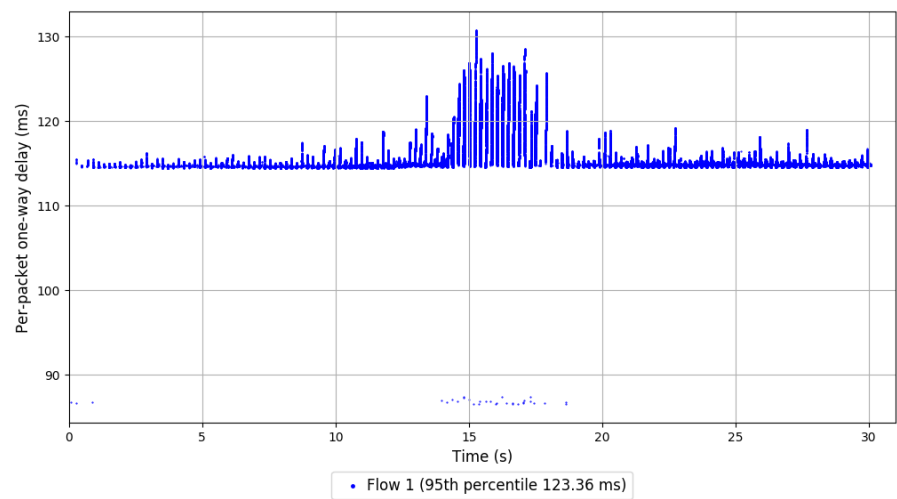
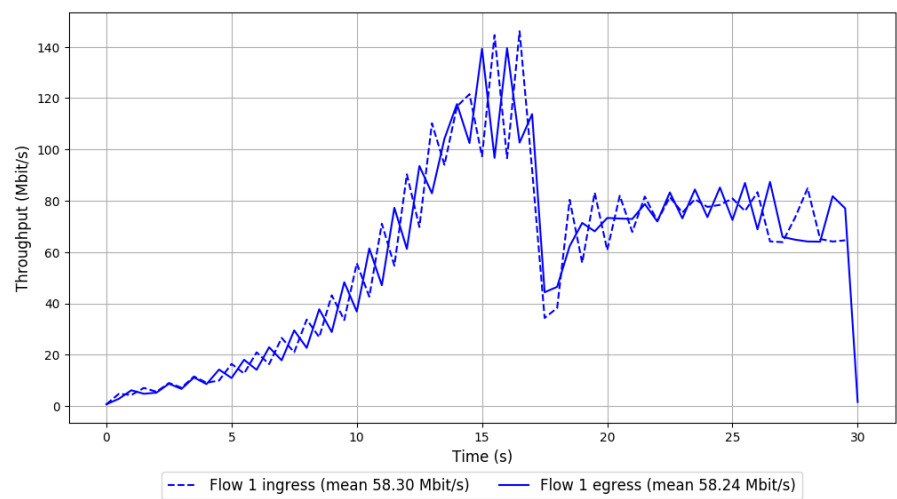
-- Flow 1:

Average throughput: 58.24 Mbit/s

95th percentile per-packet one-way delay: 123.356 ms

Loss rate: 0.00%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-02-27 10:52:13

End at: 2018-02-27 10:52:43

Below is generated by plot.py at 2018-02-27 13:07:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.62 Mbit/s

95th percentile per-packet one-way delay: 124.128 ms

Loss rate: 0.00%

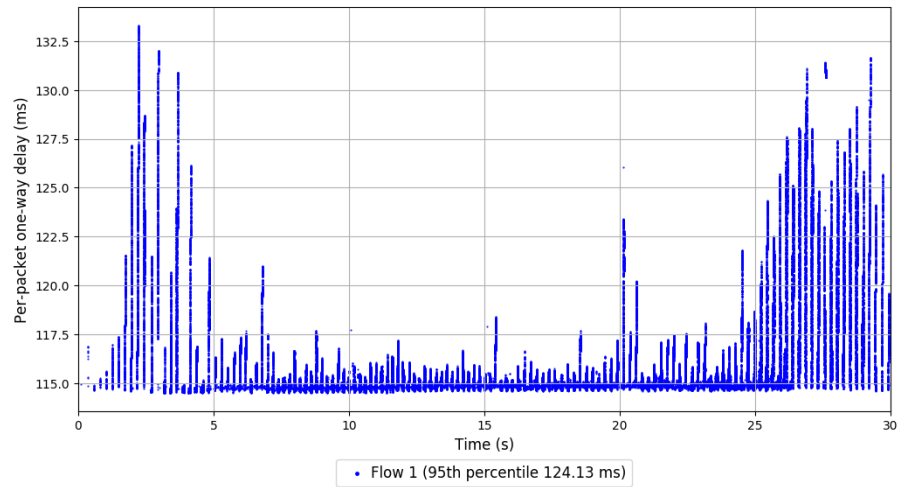
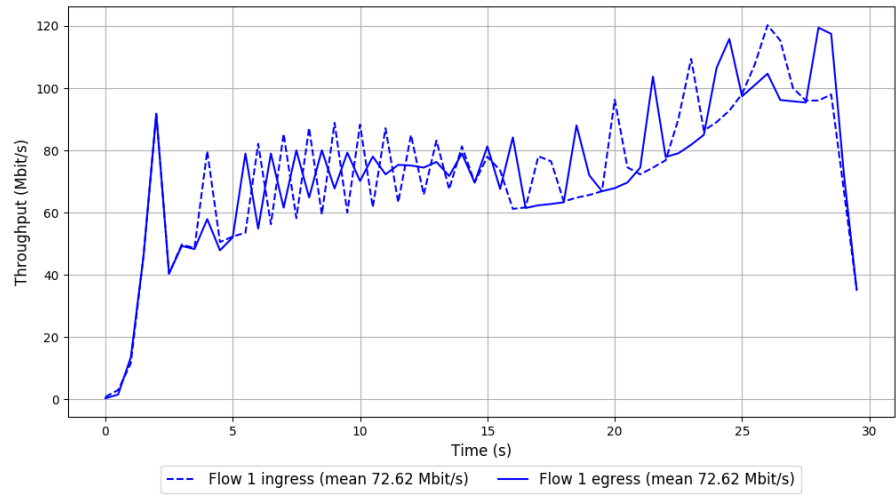
-- Flow 1:

Average throughput: 72.62 Mbit/s

95th percentile per-packet one-way delay: 124.128 ms

Loss rate: 0.00%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-02-27 11:07:06

End at: 2018-02-27 11:07:36

Below is generated by plot.py at 2018-02-27 13:07:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 70.10 Mbit/s

95th percentile per-packet one-way delay: 123.953 ms

Loss rate: 0.00%

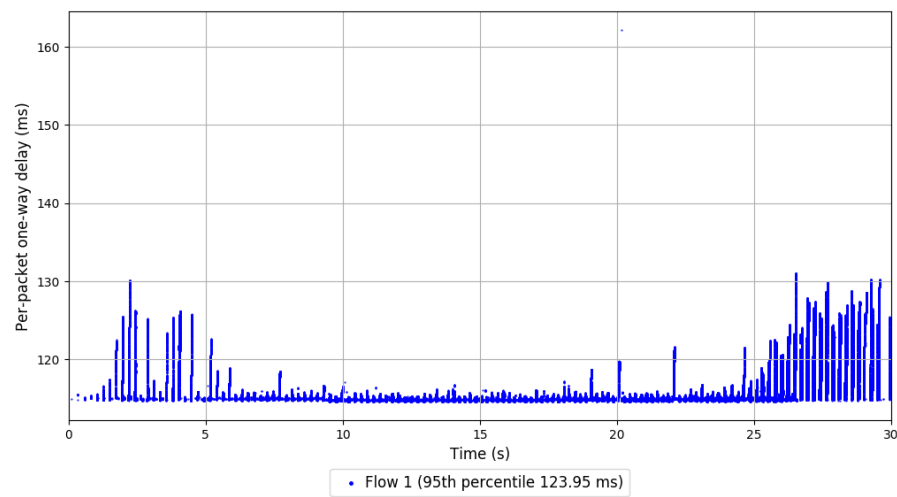
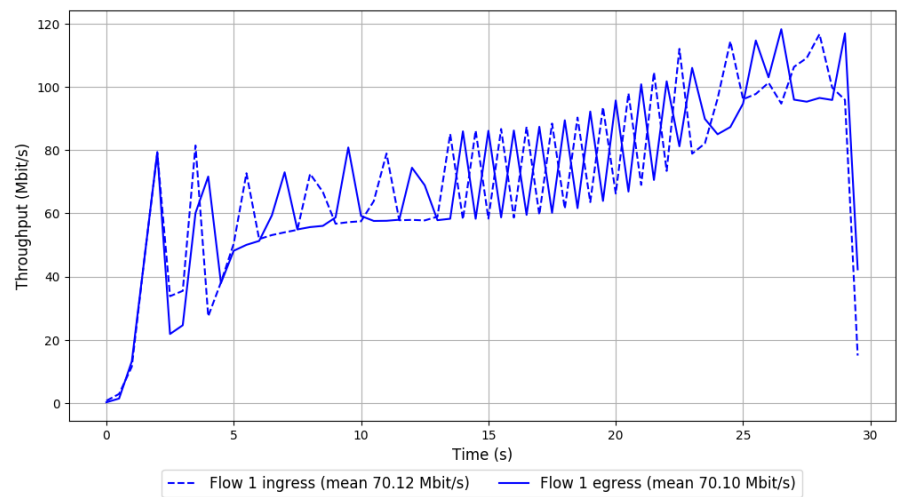
-- Flow 1:

Average throughput: 70.10 Mbit/s

95th percentile per-packet one-way delay: 123.953 ms

Loss rate: 0.00%

Run 10: Report of TCP Cubic — Data Link

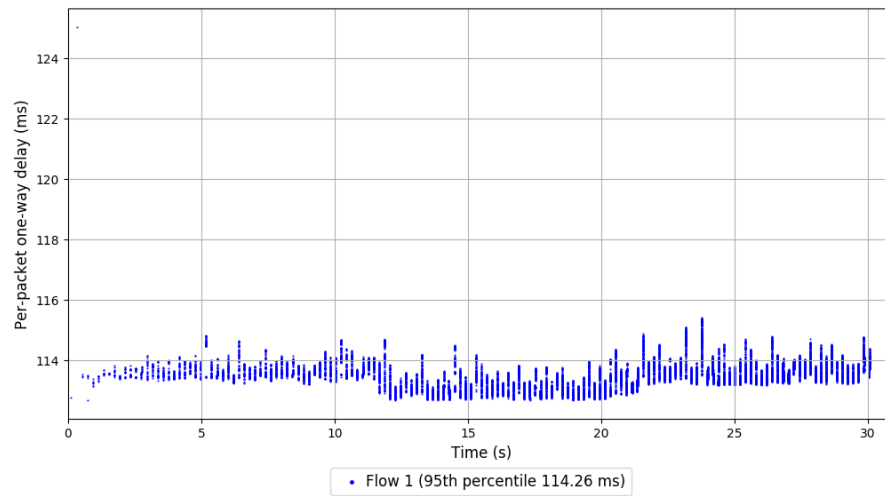
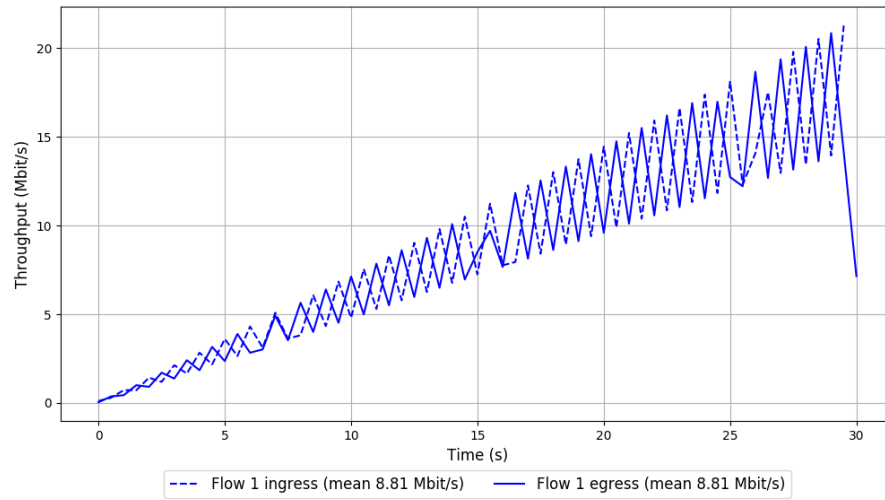


```
Run 1: Statistics of LEDBAT

Start at: 2018-02-27 08:45:43
End at: 2018-02-27 08:46:13

# Below is generated by plot.py at 2018-02-27 13:07:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 8.81 Mbit/s
95th percentile per-packet one-way delay: 114.260 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 8.81 Mbit/s
95th percentile per-packet one-way delay: 114.260 ms
Loss rate: 0.00%
```


Run 1: Report of LEDBAT — Data Link

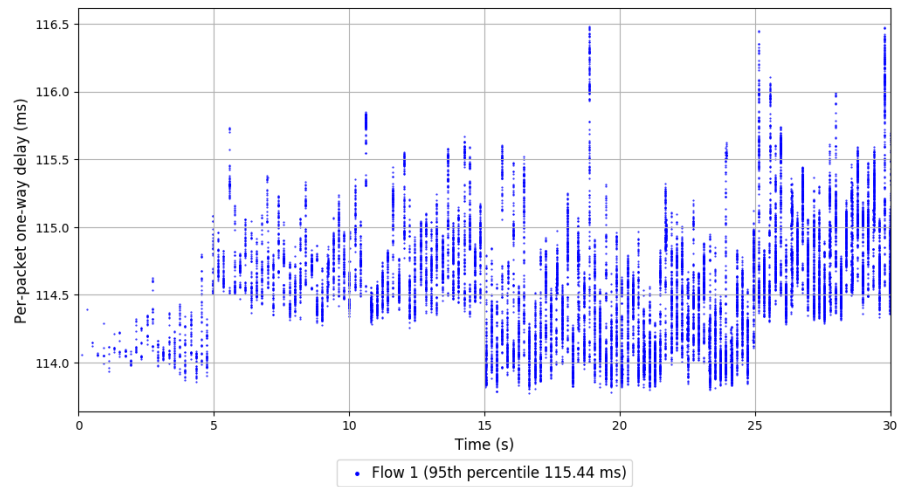
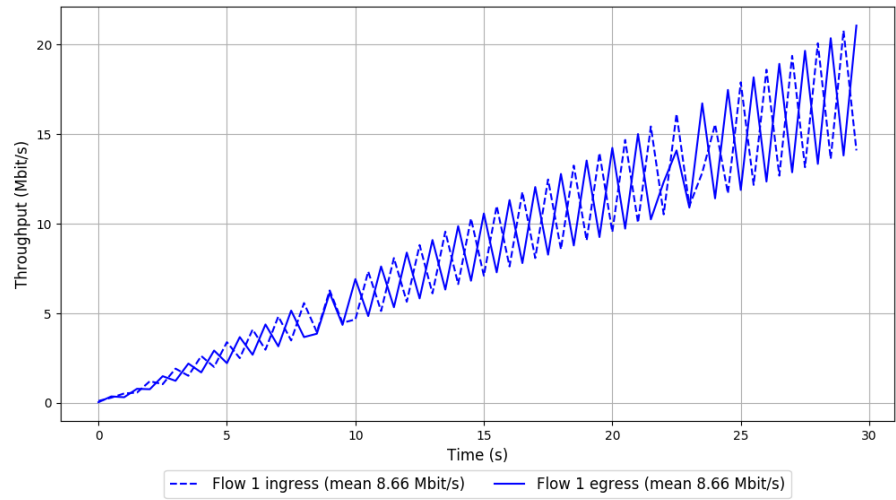


```
Run 2: Statistics of LEDBAT

Start at: 2018-02-27 09:00:50
End at: 2018-02-27 09:01:20

# Below is generated by plot.py at 2018-02-27 13:07:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 8.66 Mbit/s
95th percentile per-packet one-way delay: 115.435 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 8.66 Mbit/s
95th percentile per-packet one-way delay: 115.435 ms
Loss rate: 0.00%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-02-27 09:15:28

End at: 2018-02-27 09:15:58

Below is generated by plot.py at 2018-02-27 13:07:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.31 Mbit/s

95th percentile per-packet one-way delay: 115.113 ms

Loss rate: 0.00%

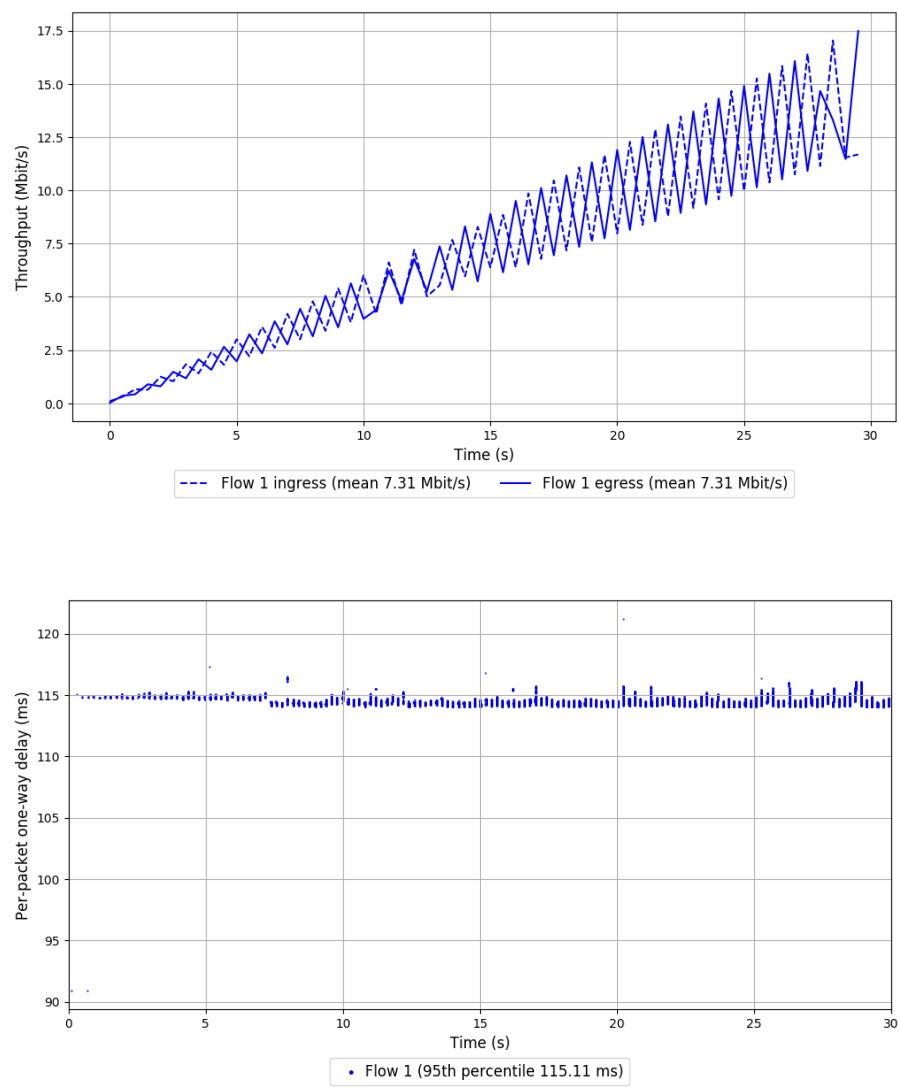
-- Flow 1:

Average throughput: 7.31 Mbit/s

95th percentile per-packet one-way delay: 115.113 ms

Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-02-27 09:29:59

End at: 2018-02-27 09:30:29

Below is generated by plot.py at 2018-02-27 13:07:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 8.87 Mbit/s

95th percentile per-packet one-way delay: 115.632 ms

Loss rate: 0.00%

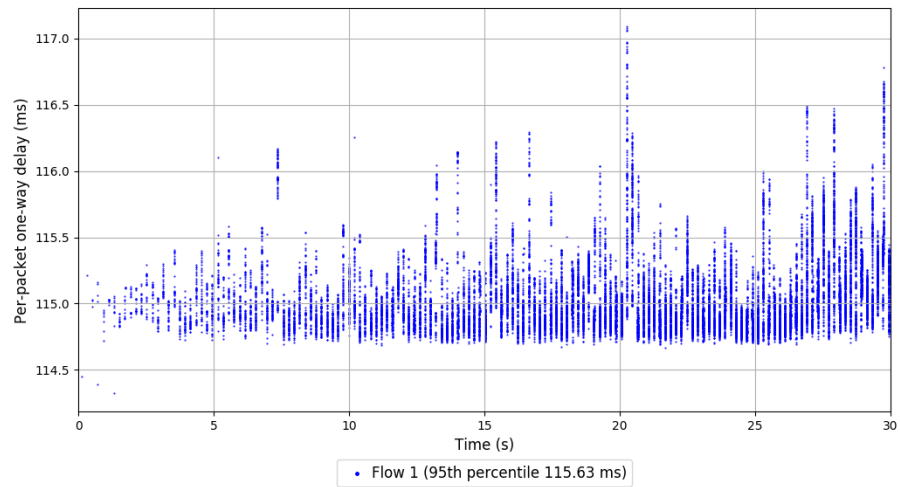
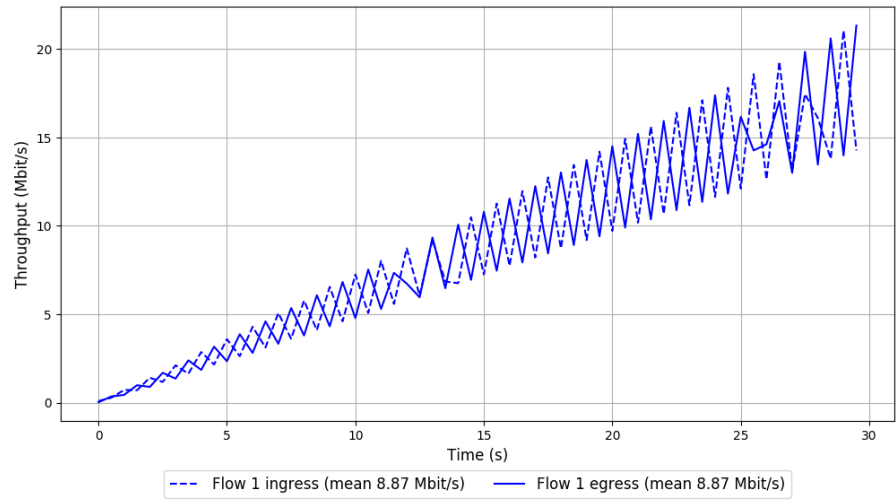
-- Flow 1:

Average throughput: 8.87 Mbit/s

95th percentile per-packet one-way delay: 115.632 ms

Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-02-27 09:44:35

End at: 2018-02-27 09:45:05

Below is generated by plot.py at 2018-02-27 13:07:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 8.88 Mbit/s

95th percentile per-packet one-way delay: 115.744 ms

Loss rate: 0.00%

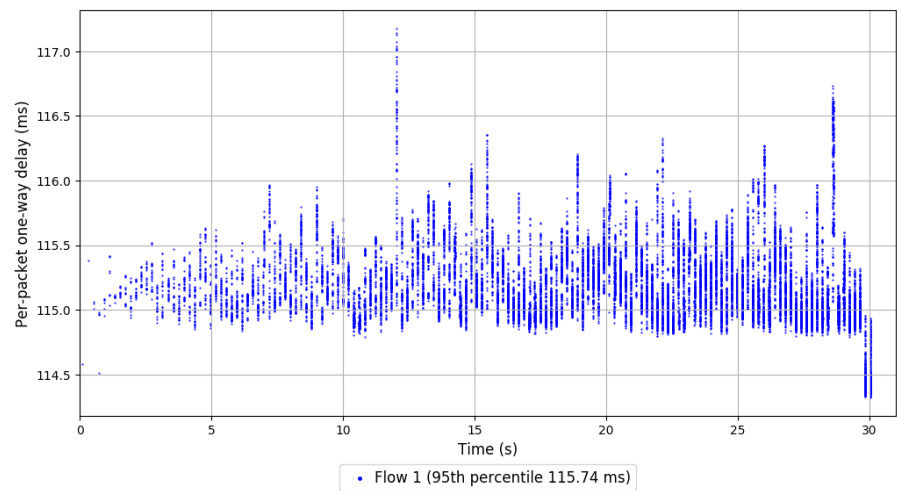
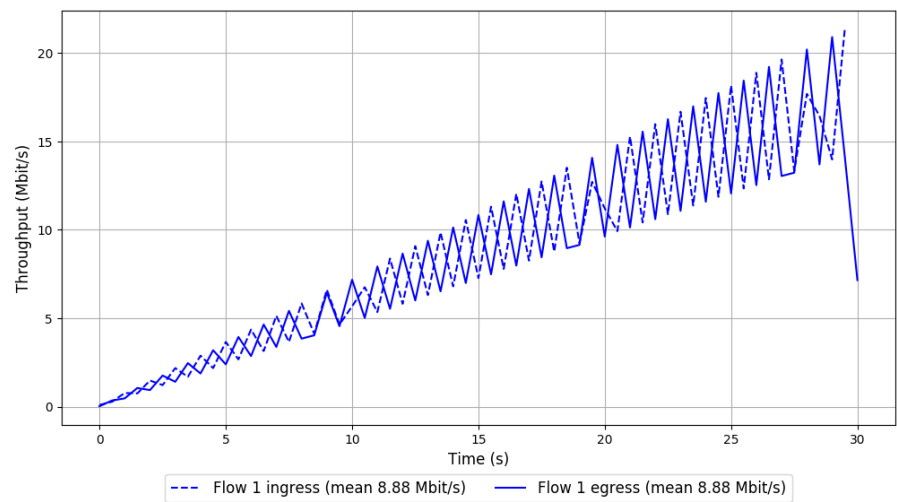
-- Flow 1:

Average throughput: 8.88 Mbit/s

95th percentile per-packet one-way delay: 115.744 ms

Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-02-27 09:59:28

End at: 2018-02-27 09:59:58

Below is generated by plot.py at 2018-02-27 13:07:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.01 Mbit/s

95th percentile per-packet one-way delay: 115.440 ms

Loss rate: 0.00%

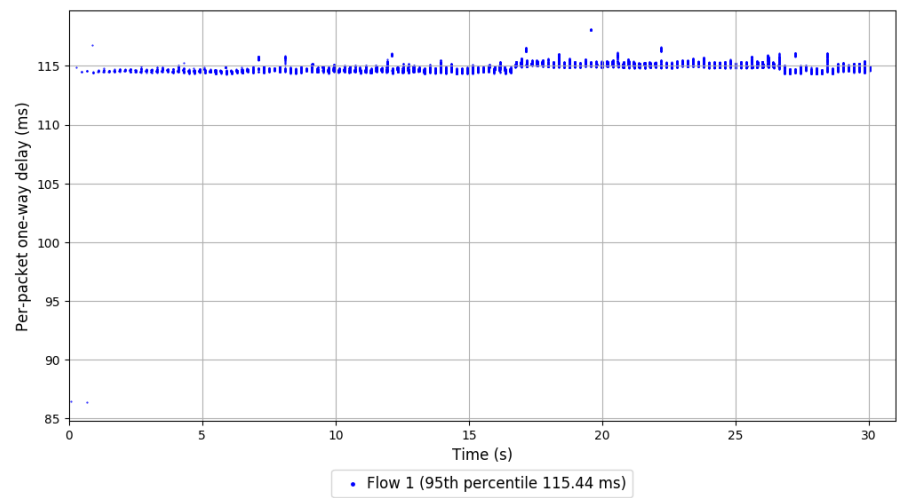
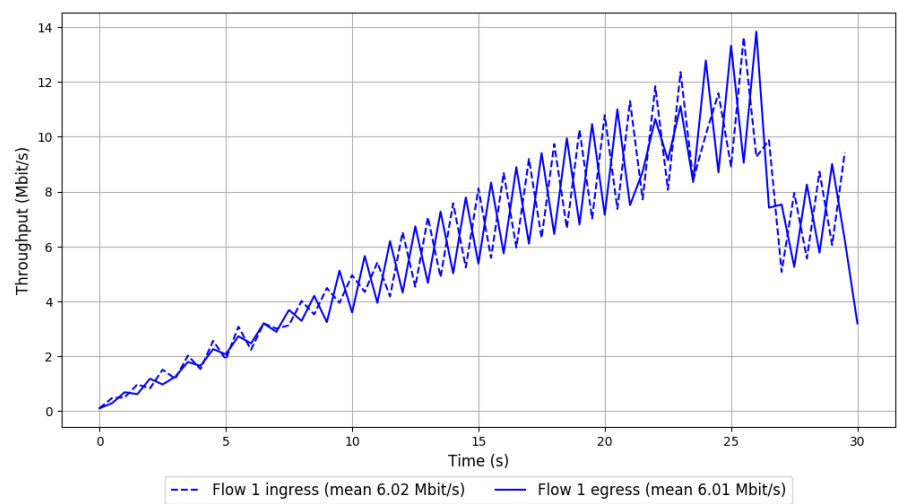
-- Flow 1:

Average throughput: 6.01 Mbit/s

95th percentile per-packet one-way delay: 115.440 ms

Loss rate: 0.00%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-02-27 10:14:15

End at: 2018-02-27 10:14:45

Below is generated by plot.py at 2018-02-27 13:07:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.88 Mbit/s

95th percentile per-packet one-way delay: 115.375 ms

Loss rate: 0.00%

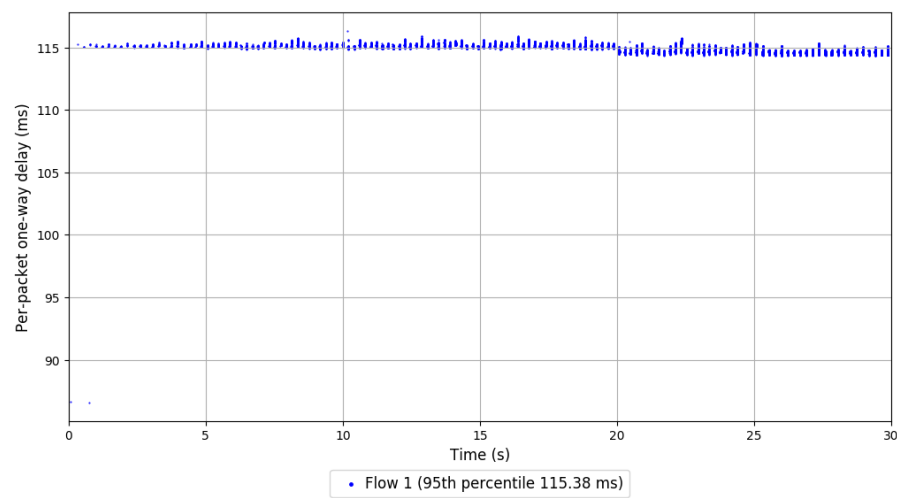
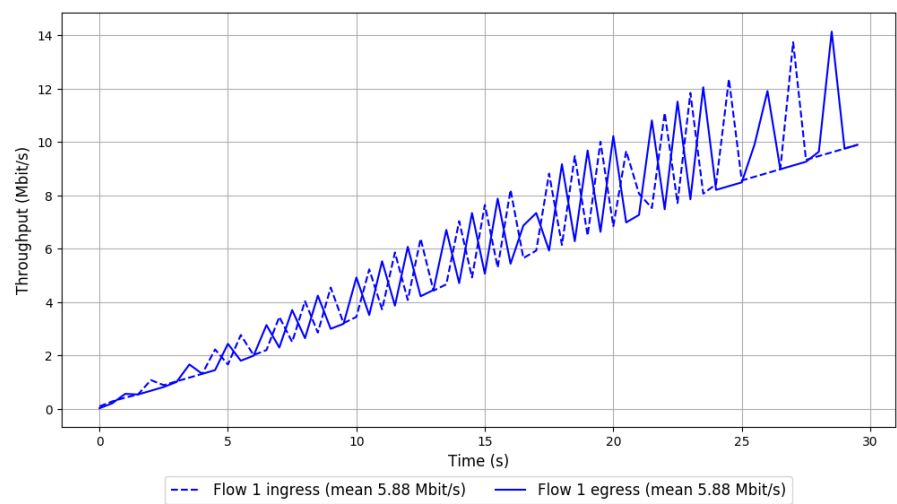
-- Flow 1:

Average throughput: 5.88 Mbit/s

95th percentile per-packet one-way delay: 115.375 ms

Loss rate: 0.00%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-02-27 10:29:06

End at: 2018-02-27 10:29:36

Below is generated by plot.py at 2018-02-27 13:07:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.55 Mbit/s

95th percentile per-packet one-way delay: 115.556 ms

Loss rate: 0.00%

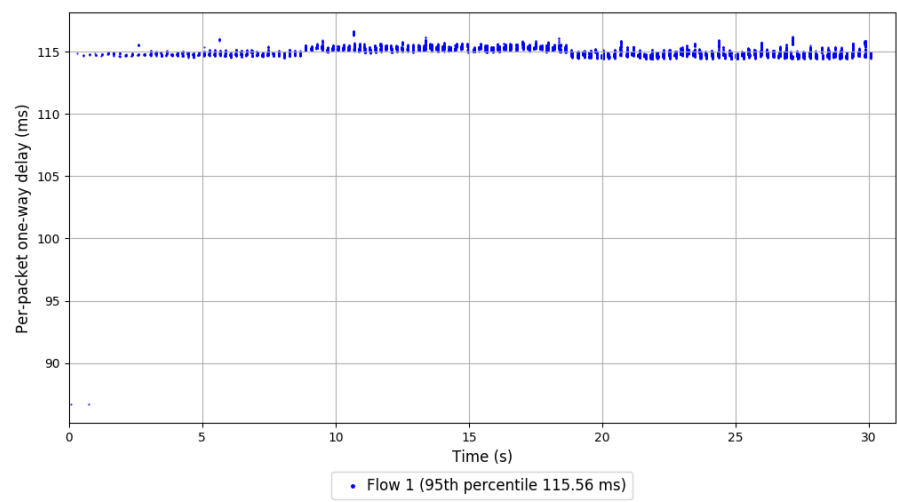
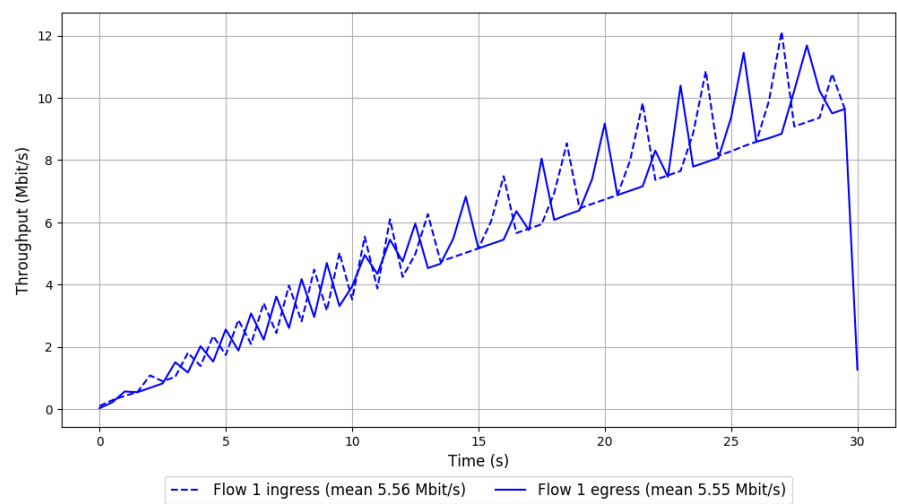
-- Flow 1:

Average throughput: 5.55 Mbit/s

95th percentile per-packet one-way delay: 115.556 ms

Loss rate: 0.00%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-02-27 10:44:15

End at: 2018-02-27 10:44:45

Below is generated by plot.py at 2018-02-27 13:07:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.00 Mbit/s

95th percentile per-packet one-way delay: 115.403 ms

Loss rate: 0.00%

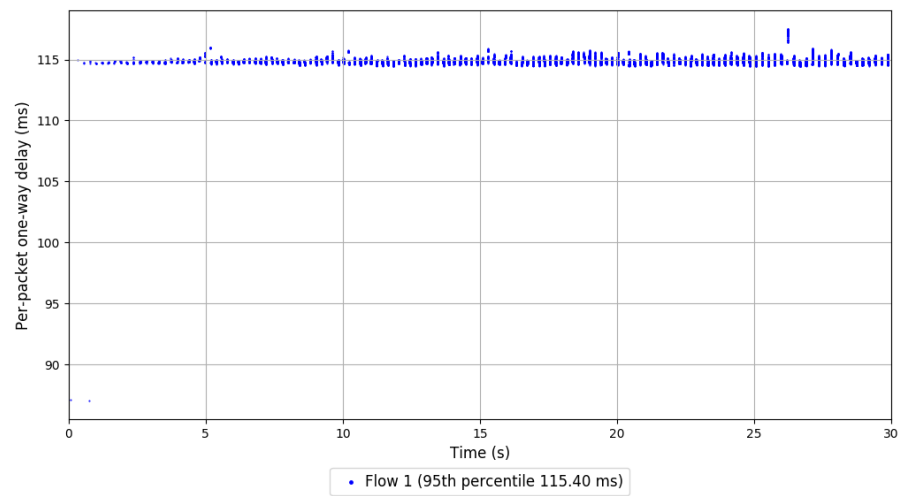
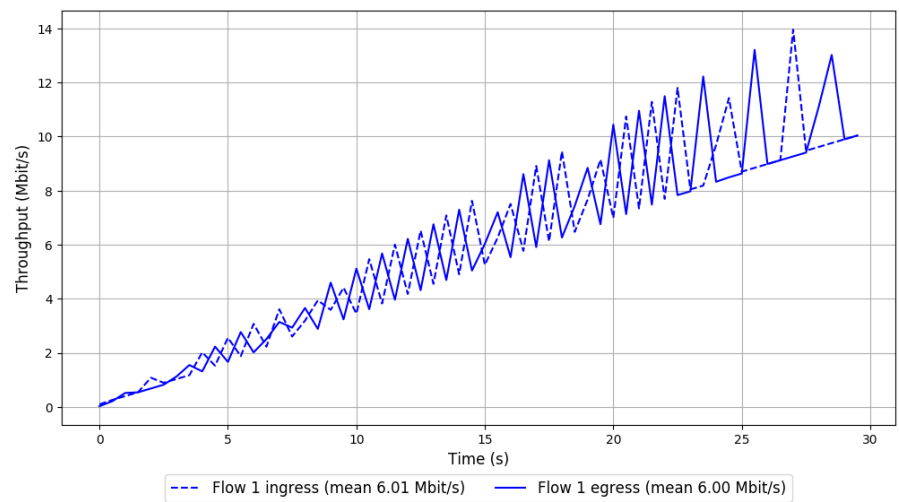
-- Flow 1:

Average throughput: 6.00 Mbit/s

95th percentile per-packet one-way delay: 115.403 ms

Loss rate: 0.00%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-02-27 10:58:54

End at: 2018-02-27 10:59:24

Below is generated by plot.py at 2018-02-27 13:07:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.70 Mbit/s

95th percentile per-packet one-way delay: 115.897 ms

Loss rate: 0.00%

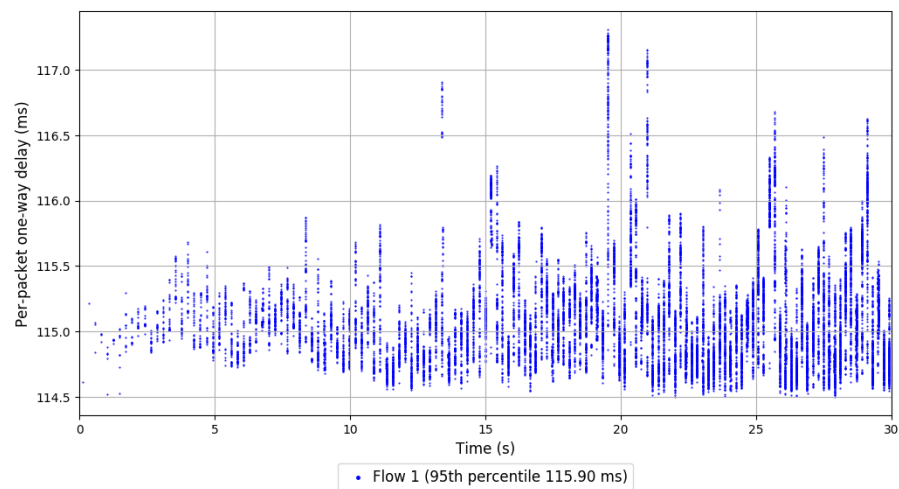
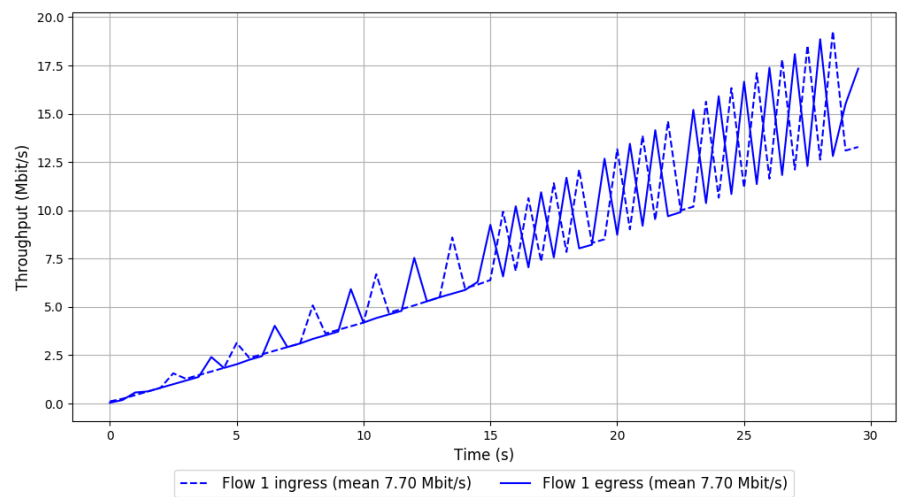
-- Flow 1:

Average throughput: 7.70 Mbit/s

95th percentile per-packet one-way delay: 115.897 ms

Loss rate: 0.00%

Run 10: Report of LEDBAT — Data Link

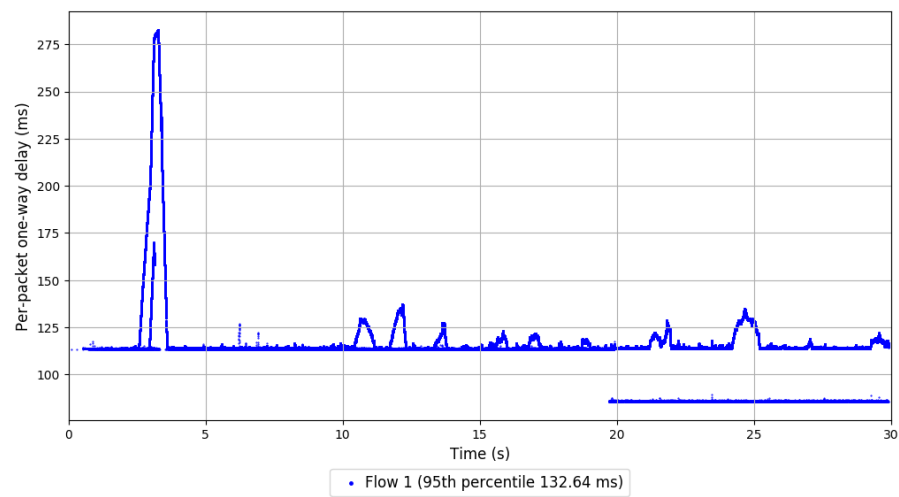
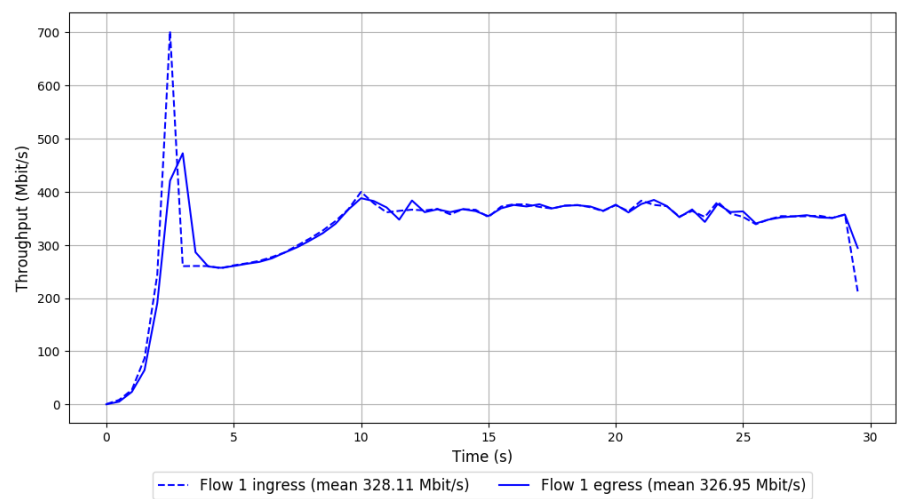


```
Run 1: Statistics of PCC

Start at: 2018-02-27 08:50:54
End at: 2018-02-27 08:51:24

# Below is generated by plot.py at 2018-02-27 13:14:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 326.95 Mbit/s
95th percentile per-packet one-way delay: 132.641 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 326.95 Mbit/s
95th percentile per-packet one-way delay: 132.641 ms
Loss rate: 0.35%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2018-02-27 09:05:48

End at: 2018-02-27 09:06:18

Below is generated by plot.py at 2018-02-27 13:14:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.81 Mbit/s

95th percentile per-packet one-way delay: 114.585 ms

Loss rate: 0.00%

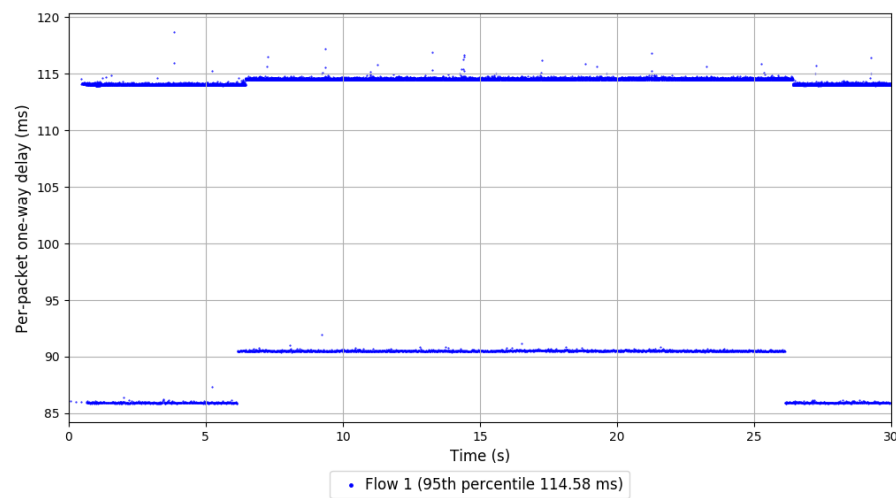
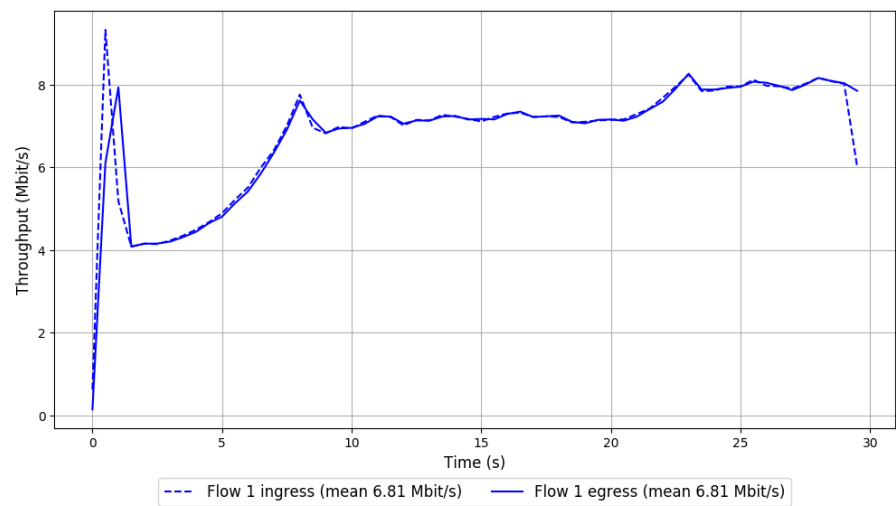
-- Flow 1:

Average throughput: 6.81 Mbit/s

95th percentile per-packet one-way delay: 114.585 ms

Loss rate: 0.00%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-02-27 09:20:24

End at: 2018-02-27 09:20:54

Below is generated by plot.py at 2018-02-27 13:14:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.28 Mbit/s

95th percentile per-packet one-way delay: 114.829 ms

Loss rate: 0.00%

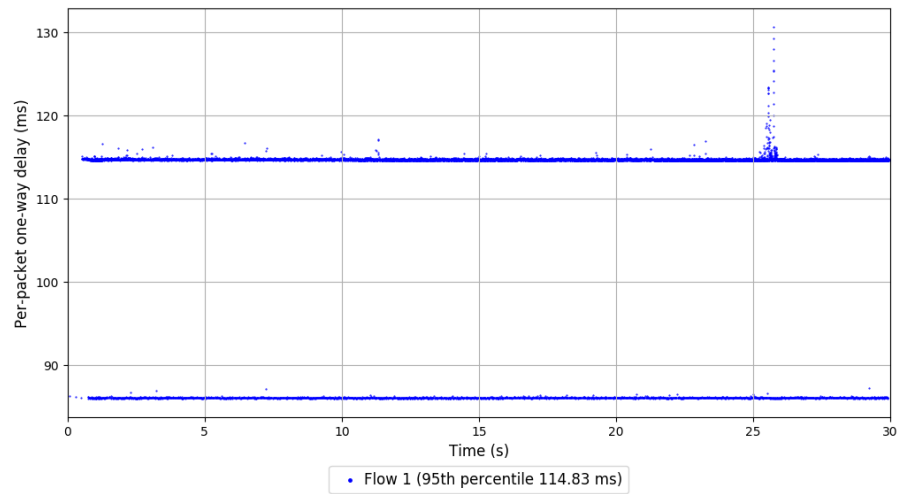
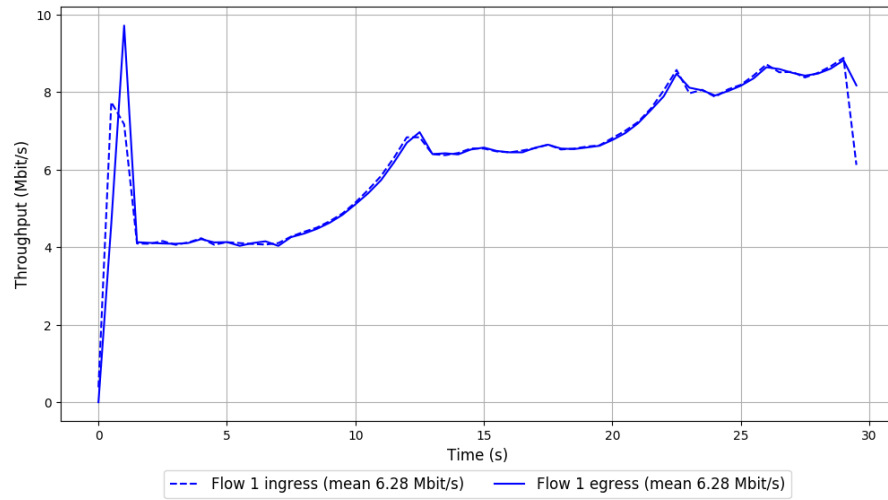
-- Flow 1:

Average throughput: 6.28 Mbit/s

95th percentile per-packet one-way delay: 114.829 ms

Loss rate: 0.00%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-02-27 09:34:58

End at: 2018-02-27 09:35:28

Below is generated by plot.py at 2018-02-27 13:14:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 34.62 Mbit/s

95th percentile per-packet one-way delay: 114.883 ms

Loss rate: 0.00%

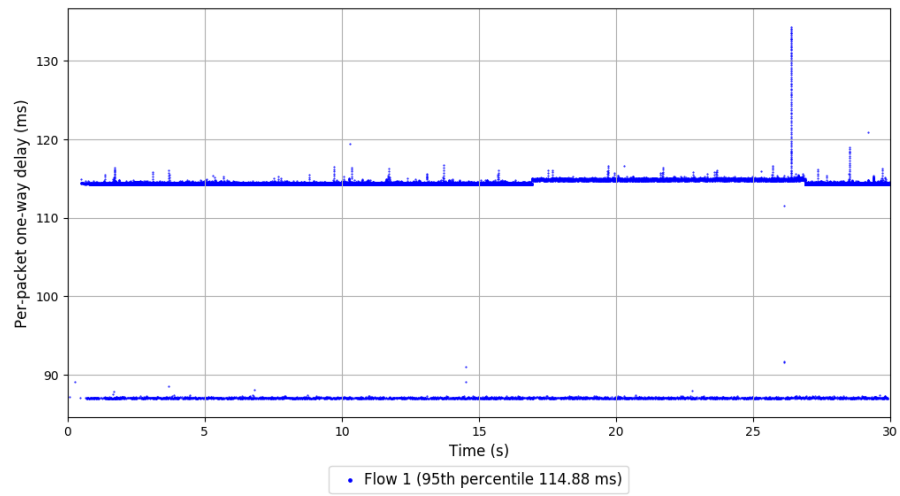
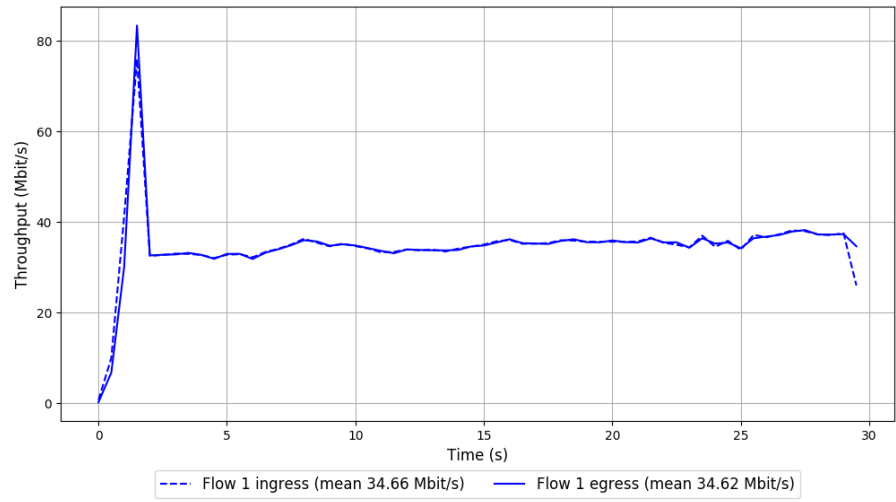
-- Flow 1:

Average throughput: 34.62 Mbit/s

95th percentile per-packet one-way delay: 114.883 ms

Loss rate: 0.00%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-02-27 09:49:49

End at: 2018-02-27 09:50:19

Below is generated by plot.py at 2018-02-27 13:14:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 35.65 Mbit/s

95th percentile per-packet one-way delay: 114.560 ms

Loss rate: 0.00%

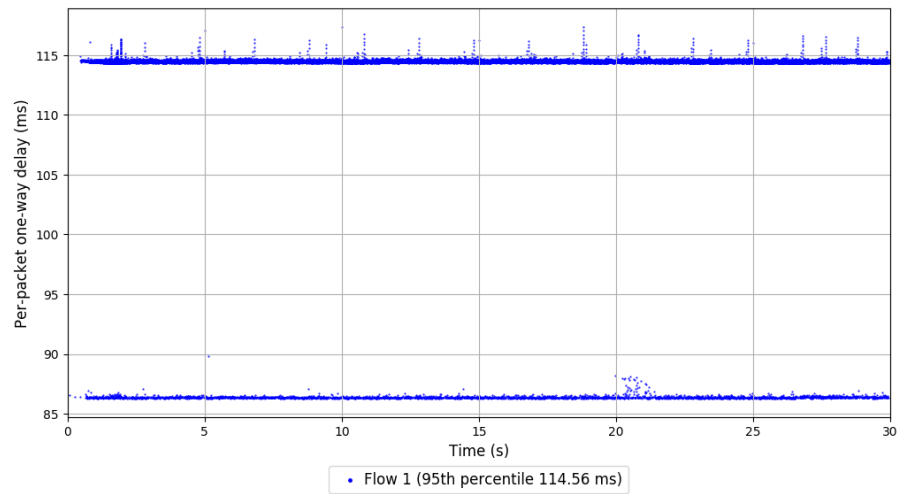
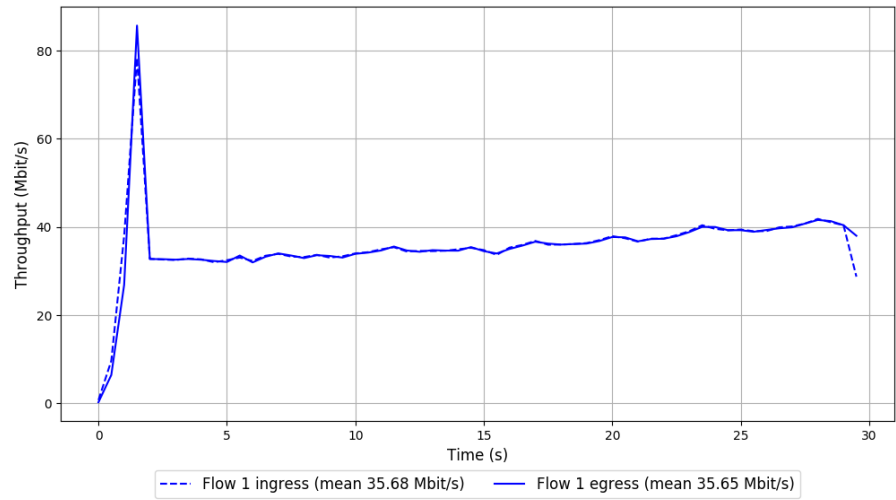
-- Flow 1:

Average throughput: 35.65 Mbit/s

95th percentile per-packet one-way delay: 114.560 ms

Loss rate: 0.00%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-02-27 10:04:30

End at: 2018-02-27 10:05:00

Below is generated by plot.py at 2018-02-27 13:14:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.00 Mbit/s

95th percentile per-packet one-way delay: 115.743 ms

Loss rate: 0.00%

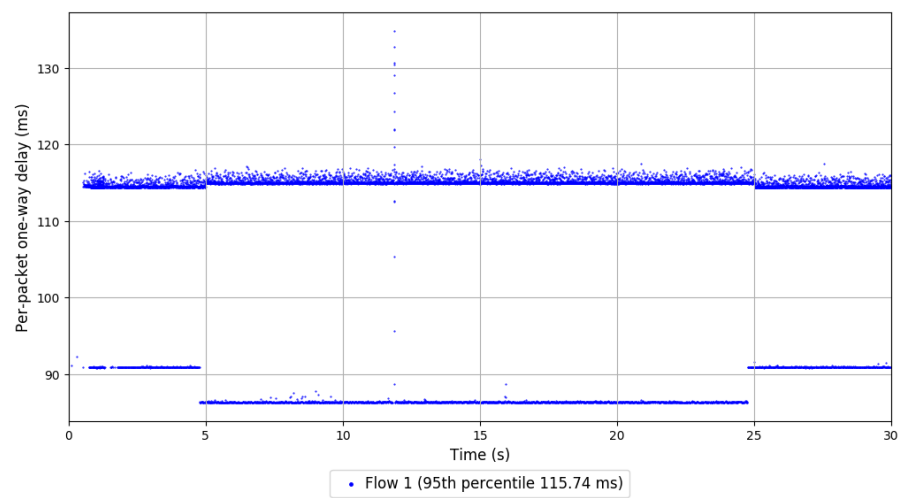
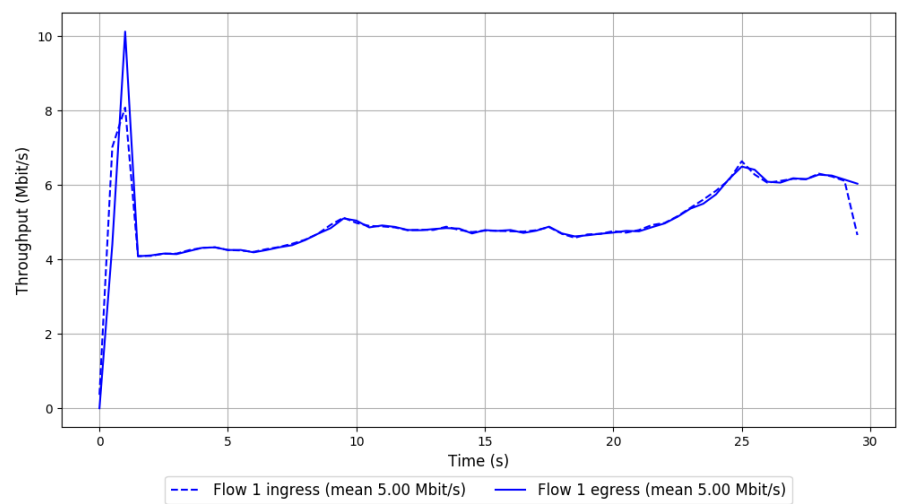
-- Flow 1:

Average throughput: 5.00 Mbit/s

95th percentile per-packet one-way delay: 115.743 ms

Loss rate: 0.00%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-02-27 10:19:04

End at: 2018-02-27 10:19:34

Below is generated by plot.py at 2018-02-27 13:14:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 329.10 Mbit/s

95th percentile per-packet one-way delay: 131.993 ms

Loss rate: 0.44%

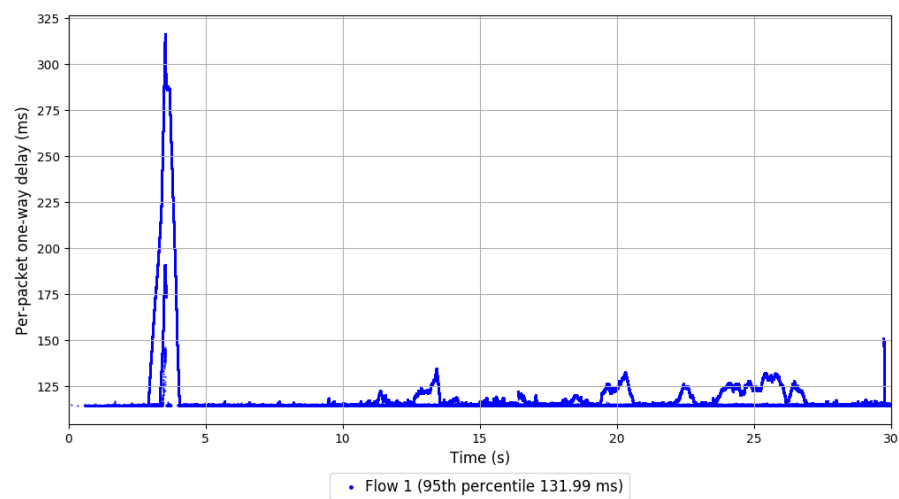
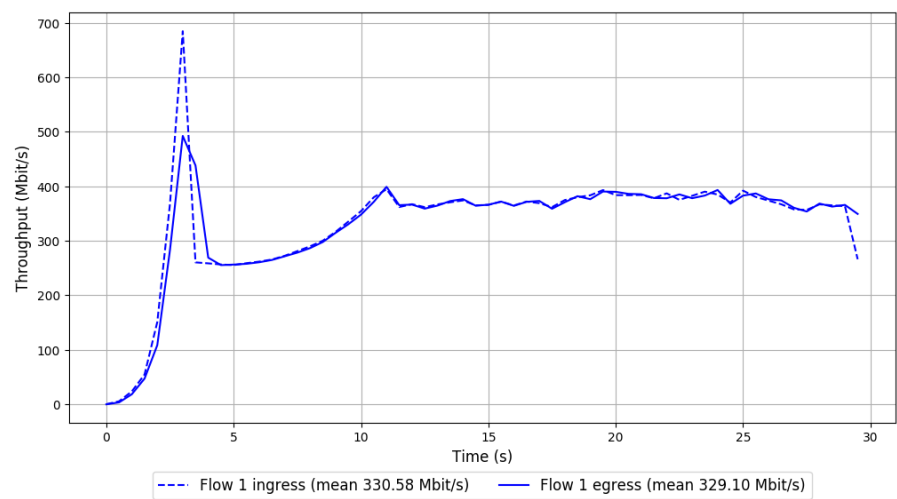
-- Flow 1:

Average throughput: 329.10 Mbit/s

95th percentile per-packet one-way delay: 131.993 ms

Loss rate: 0.44%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-02-27 10:34:16

End at: 2018-02-27 10:34:46

Below is generated by plot.py at 2018-02-27 13:14:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 319.87 Mbit/s

95th percentile per-packet one-way delay: 169.693 ms

Loss rate: 0.47%

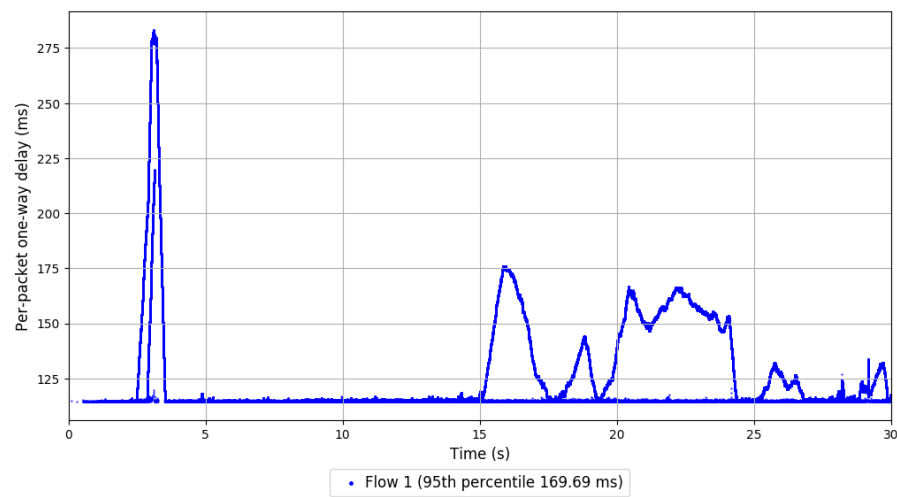
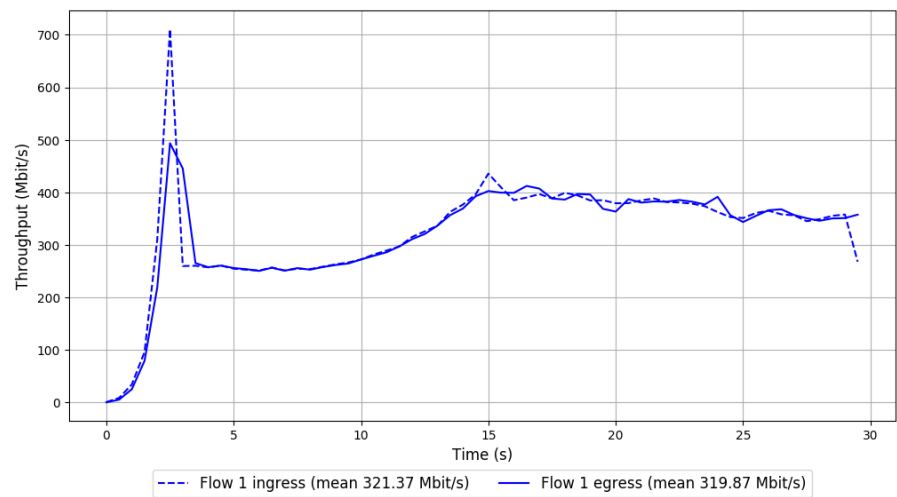
-- Flow 1:

Average throughput: 319.87 Mbit/s

95th percentile per-packet one-way delay: 169.693 ms

Loss rate: 0.47%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2018-02-27 10:49:07

End at: 2018-02-27 10:49:37

Below is generated by plot.py at 2018-02-27 13:14:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.40 Mbit/s

95th percentile per-packet one-way delay: 114.811 ms

Loss rate: 0.01%

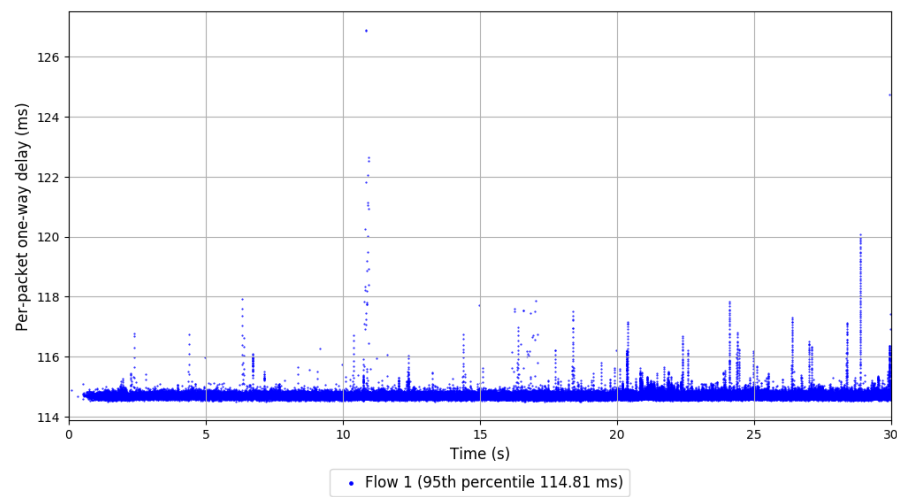
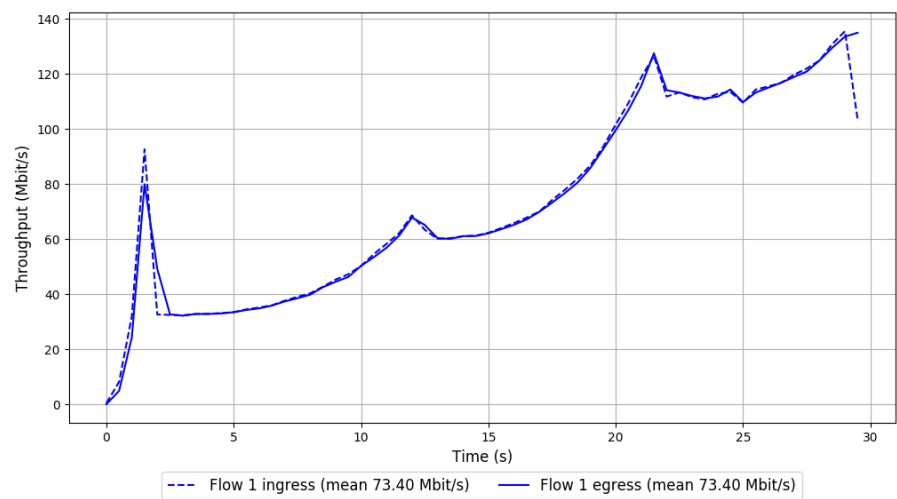
-- Flow 1:

Average throughput: 73.40 Mbit/s

95th percentile per-packet one-way delay: 114.811 ms

Loss rate: 0.01%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2018-02-27 11:04:02

End at: 2018-02-27 11:04:32

Below is generated by plot.py at 2018-02-27 13:14:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.43 Mbit/s

95th percentile per-packet one-way delay: 114.870 ms

Loss rate: 0.00%

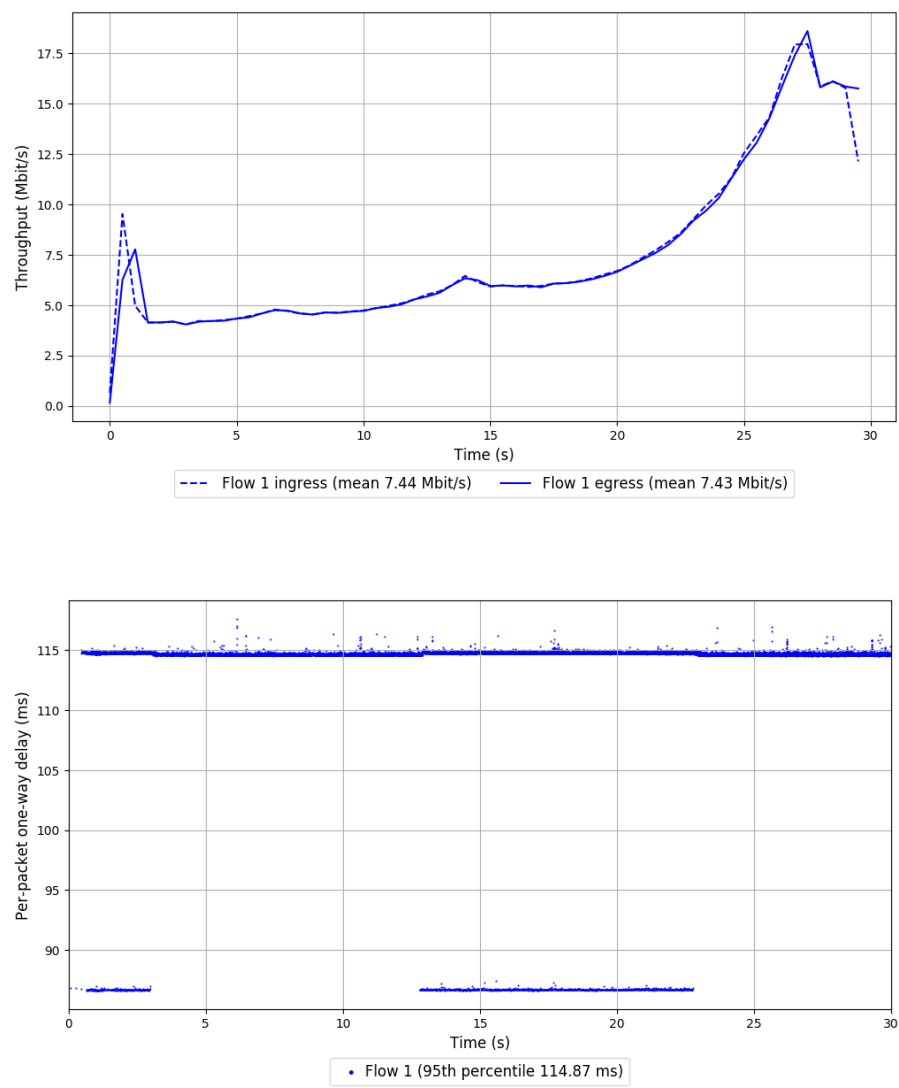
-- Flow 1:

Average throughput: 7.43 Mbit/s

95th percentile per-packet one-way delay: 114.870 ms

Loss rate: 0.00%

Run 10: Report of PCC — Data Link

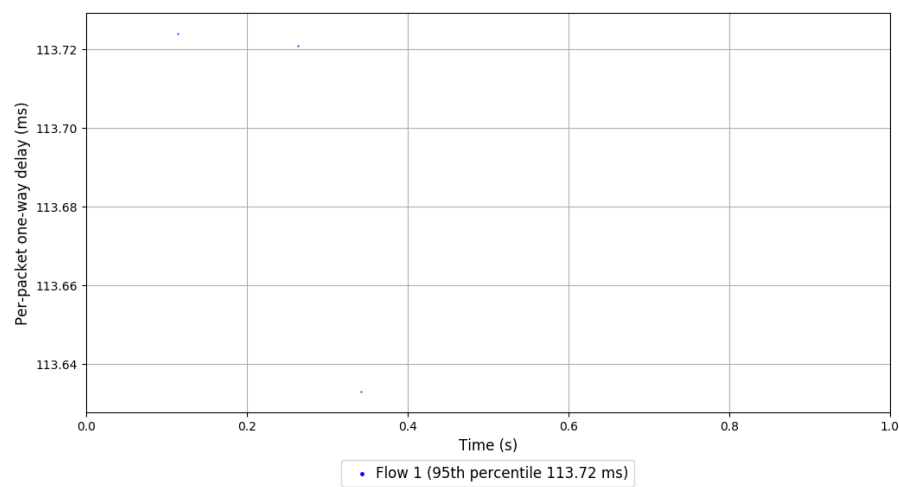
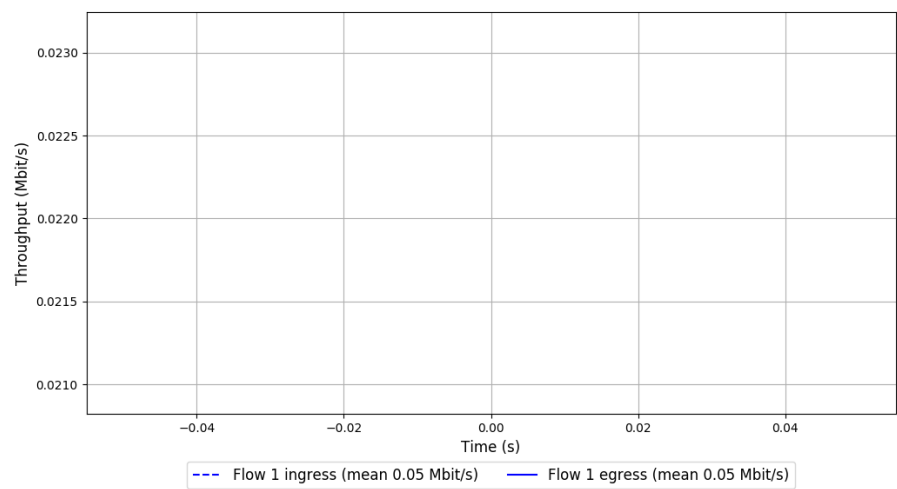


Run 1: Statistics of QUIC Cubic

Start at: 2018-02-27 08:51:48

End at: 2018-02-27 08:52:18

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-02-27 09:06:29

End at: 2018-02-27 09:06:59

Below is generated by plot.py at 2018-02-27 13:14:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 61.67 Mbit/s

95th percentile per-packet one-way delay: 86.870 ms

Loss rate: 0.00%

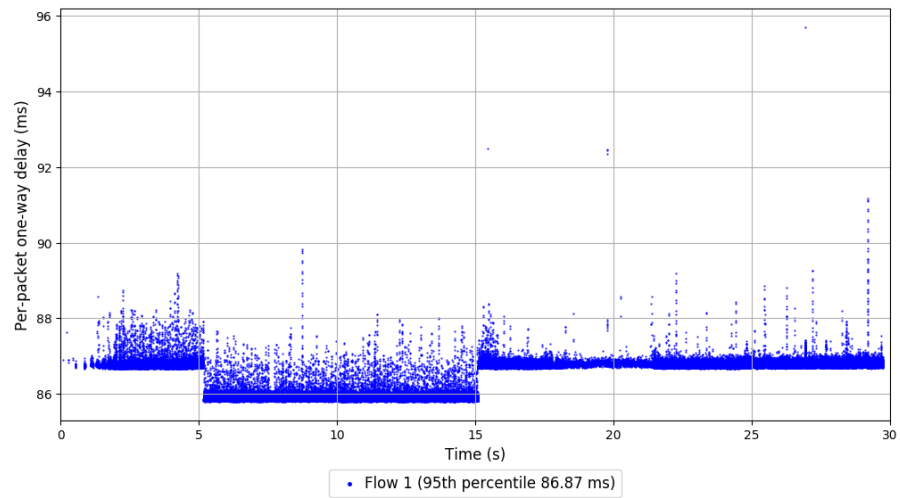
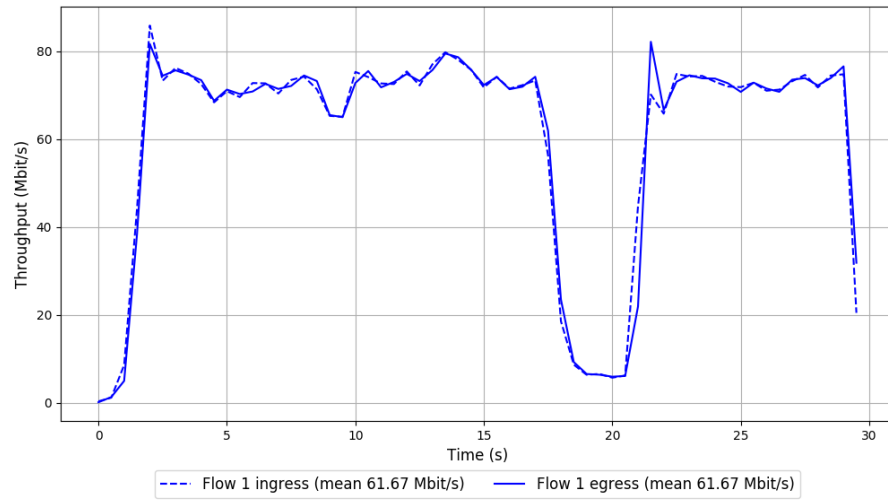
-- Flow 1:

Average throughput: 61.67 Mbit/s

95th percentile per-packet one-way delay: 86.870 ms

Loss rate: 0.00%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-02-27 09:21:05

End at: 2018-02-27 09:21:35

Below is generated by plot.py at 2018-02-27 13:14:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 62.16 Mbit/s

95th percentile per-packet one-way delay: 114.268 ms

Loss rate: 0.00%

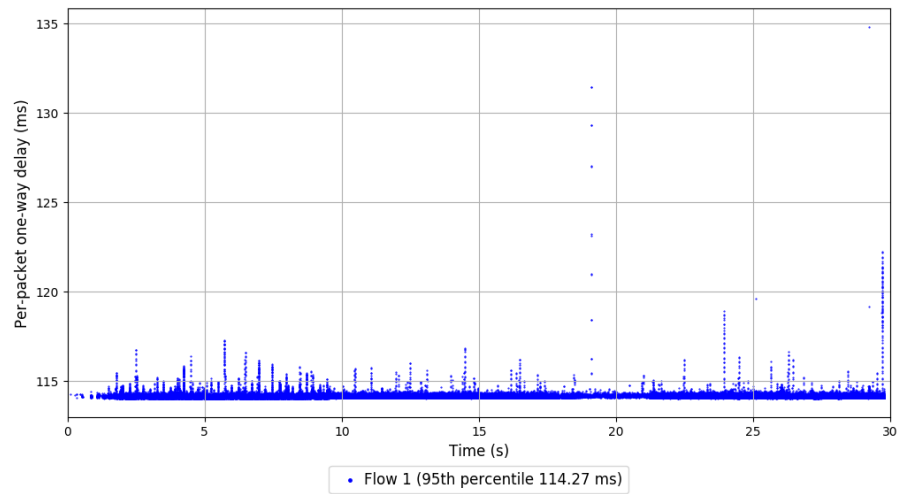
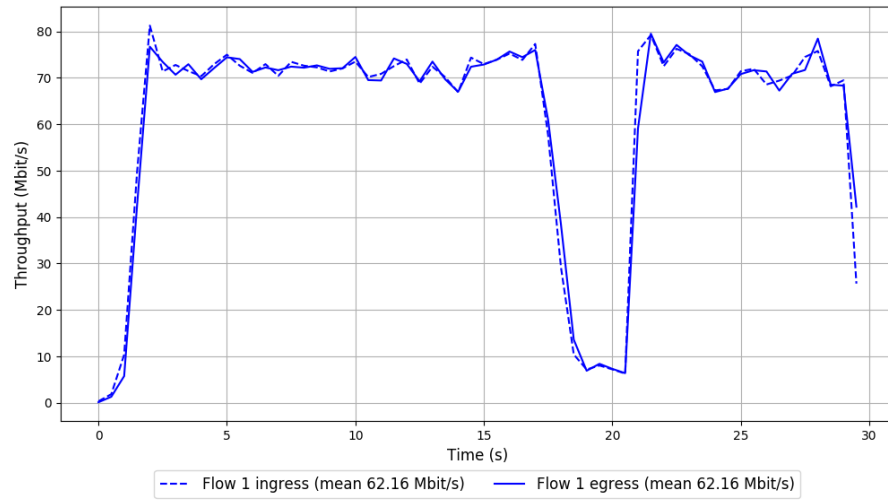
-- Flow 1:

Average throughput: 62.16 Mbit/s

95th percentile per-packet one-way delay: 114.268 ms

Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-02-27 09:35:40

End at: 2018-02-27 09:36:10

Below is generated by plot.py at 2018-02-27 13:14:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 59.39 Mbit/s

95th percentile per-packet one-way delay: 87.154 ms

Loss rate: 0.00%

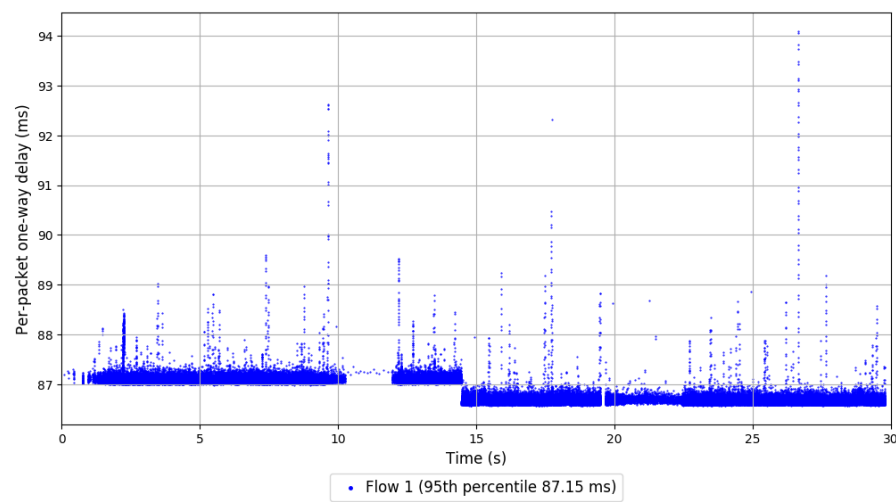
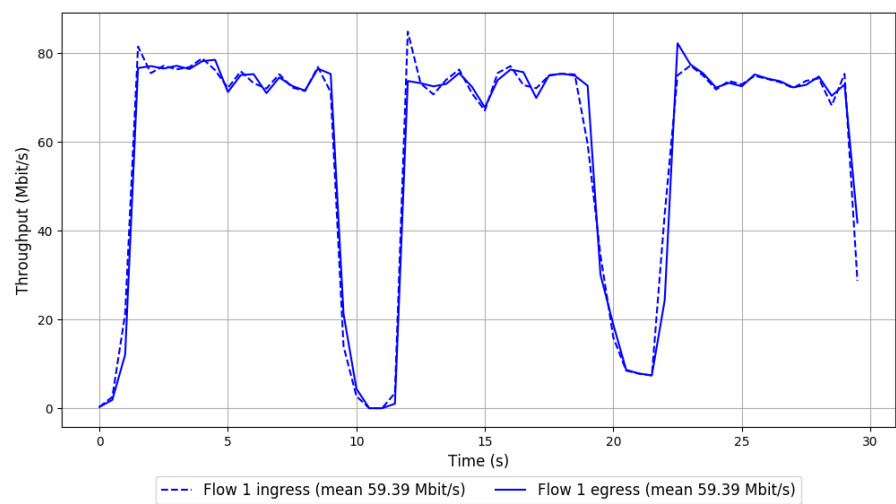
-- Flow 1:

Average throughput: 59.39 Mbit/s

95th percentile per-packet one-way delay: 87.154 ms

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-02-27 09:50:31

End at: 2018-02-27 09:51:01

Below is generated by plot.py at 2018-02-27 13:14:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.13 Mbit/s

95th percentile per-packet one-way delay: 114.776 ms

Loss rate: 0.00%

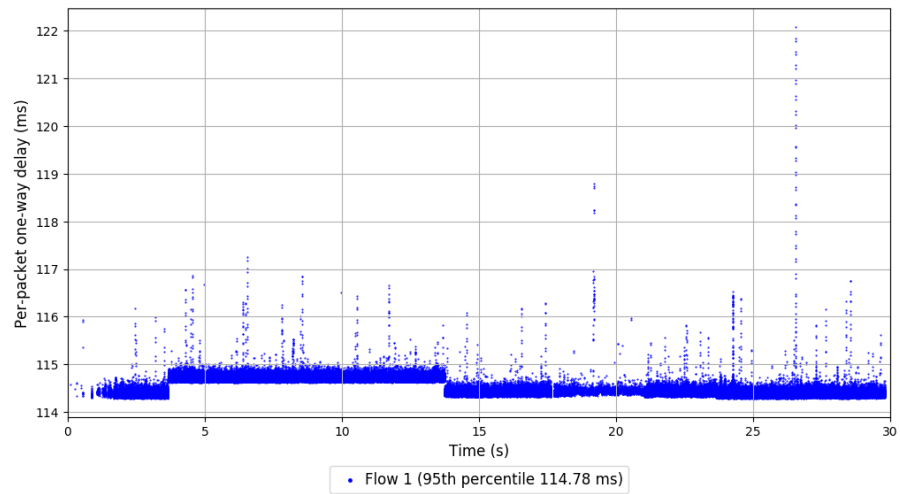
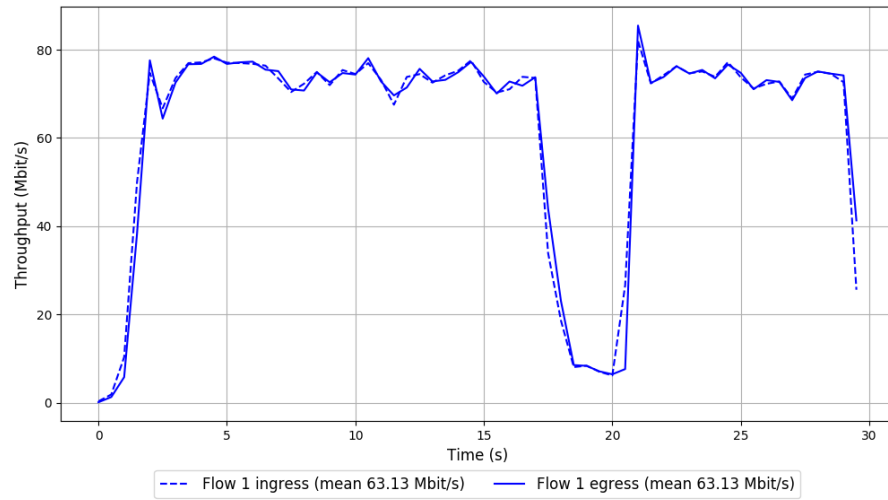
-- Flow 1:

Average throughput: 63.13 Mbit/s

95th percentile per-packet one-way delay: 114.776 ms

Loss rate: 0.00%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-02-27 10:05:10

End at: 2018-02-27 10:05:40

Below is generated by plot.py at 2018-02-27 13:14:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 58.02 Mbit/s

95th percentile per-packet one-way delay: 114.738 ms

Loss rate: 0.00%

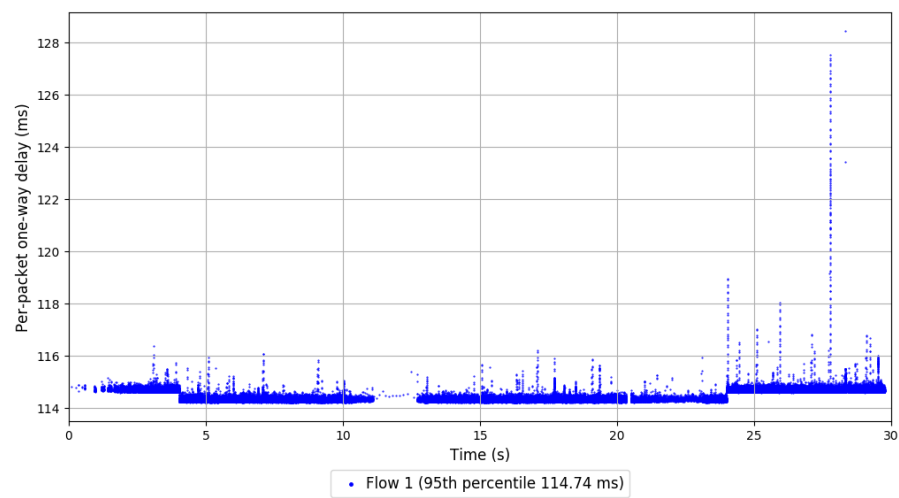
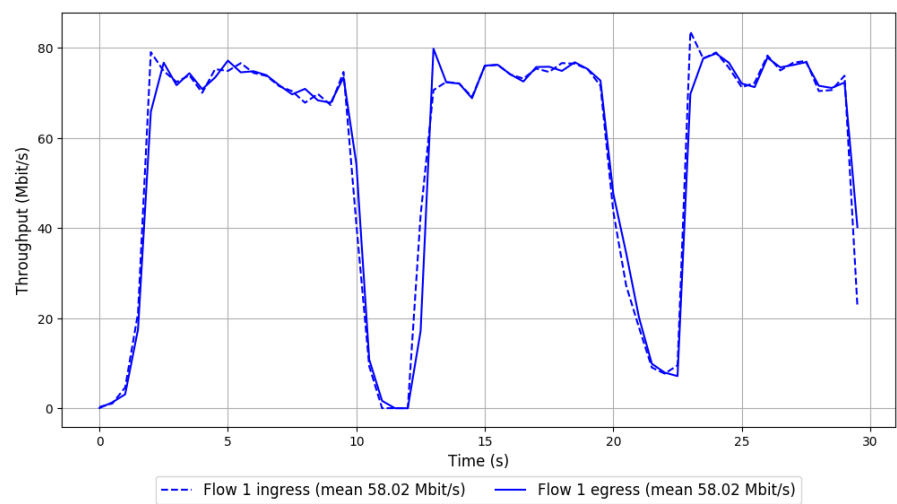
-- Flow 1:

Average throughput: 58.02 Mbit/s

95th percentile per-packet one-way delay: 114.738 ms

Loss rate: 0.00%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-02-27 10:19:57

End at: 2018-02-27 10:20:27

Below is generated by plot.py at 2018-02-27 13:14:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.42 Mbit/s

95th percentile per-packet one-way delay: 114.607 ms

Loss rate: 0.00%

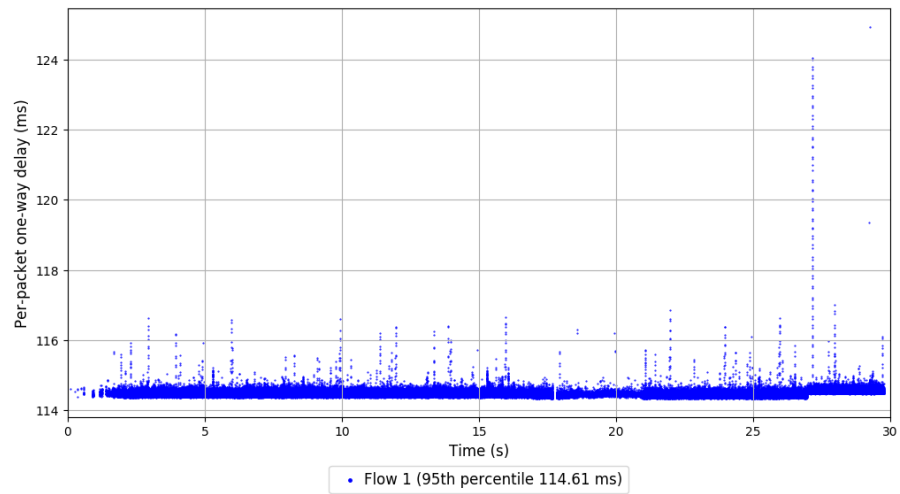
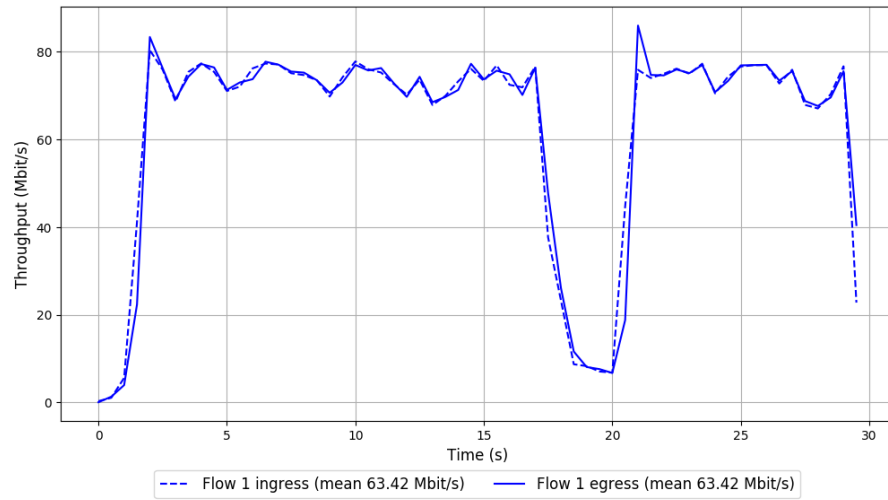
-- Flow 1:

Average throughput: 63.42 Mbit/s

95th percentile per-packet one-way delay: 114.607 ms

Loss rate: 0.00%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-02-27 10:35:10

End at: 2018-02-27 10:35:40

Below is generated by plot.py at 2018-02-27 13:14:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 54.02 Mbit/s

95th percentile per-packet one-way delay: 115.172 ms

Loss rate: 0.00%

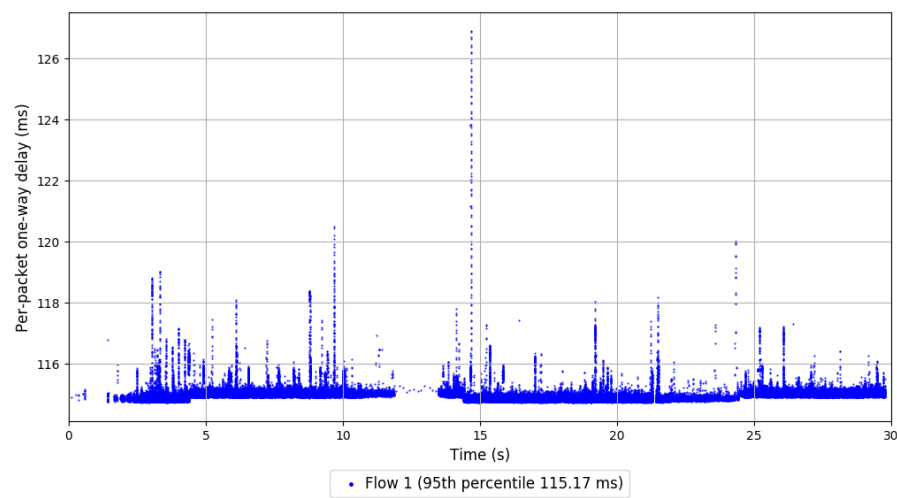
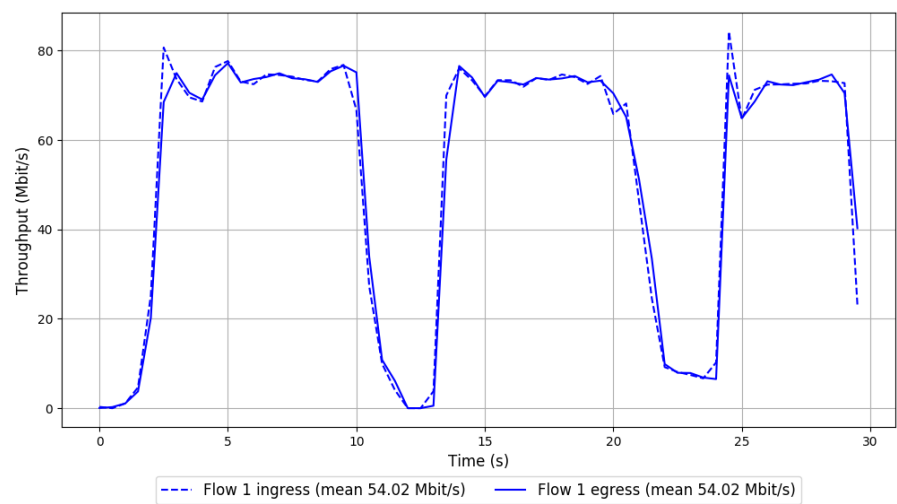
-- Flow 1:

Average throughput: 54.02 Mbit/s

95th percentile per-packet one-way delay: 115.172 ms

Loss rate: 0.00%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-02-27 10:49:51

End at: 2018-02-27 10:50:21

Below is generated by plot.py at 2018-02-27 13:14:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 60.96 Mbit/s

95th percentile per-packet one-way delay: 114.803 ms

Loss rate: 0.00%

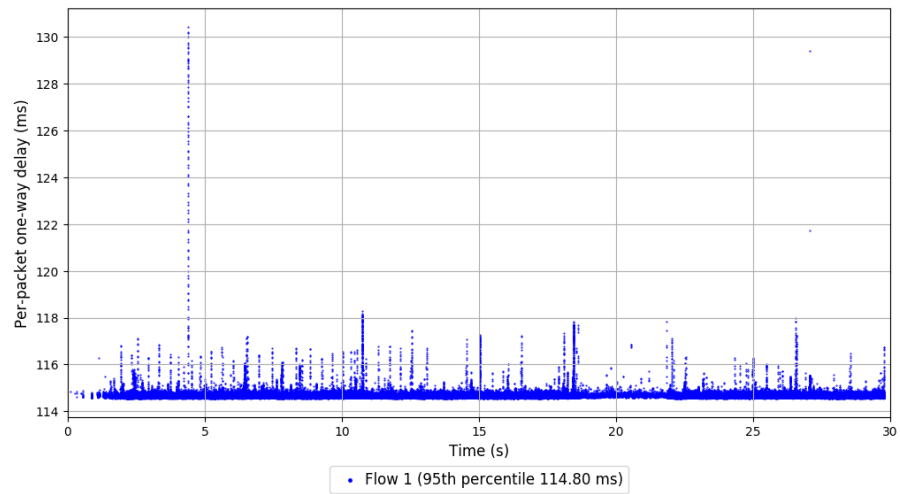
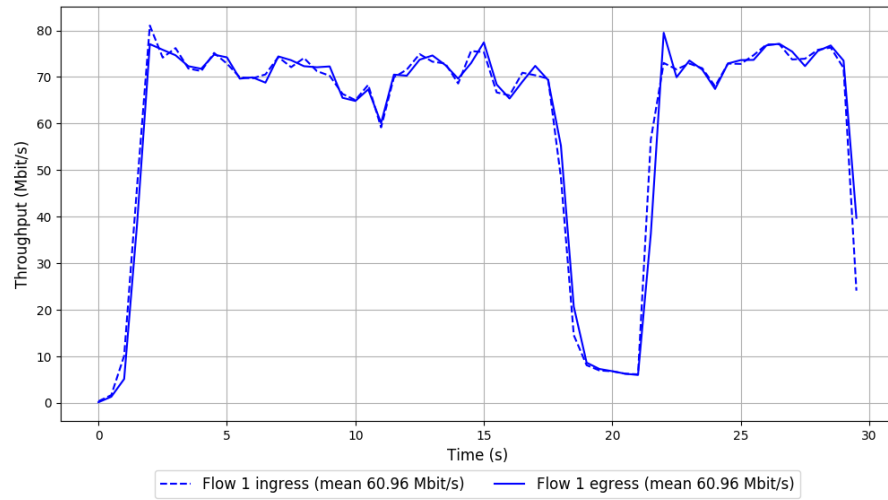
-- Flow 1:

Average throughput: 60.96 Mbit/s

95th percentile per-packet one-way delay: 114.803 ms

Loss rate: 0.00%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-02-27 11:04:44

End at: 2018-02-27 11:05:14

Below is generated by plot.py at 2018-02-27 13:14:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 52.02 Mbit/s

95th percentile per-packet one-way delay: 114.856 ms

Loss rate: 0.00%

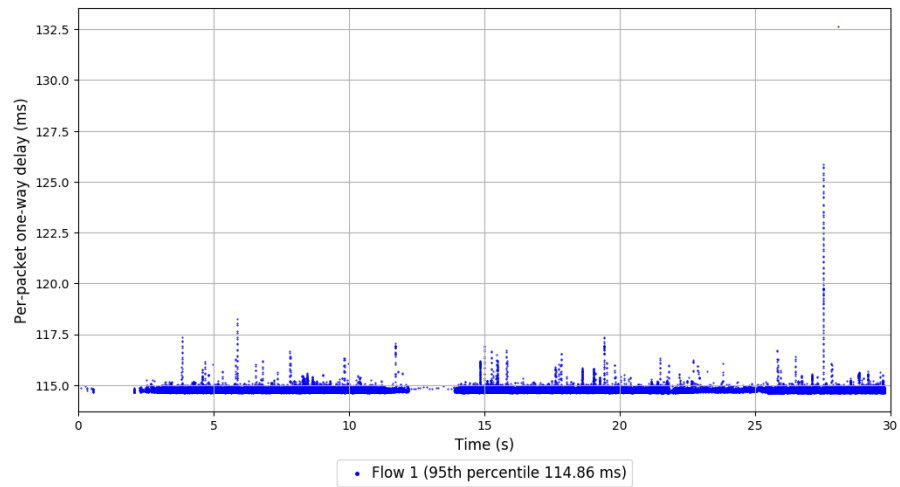
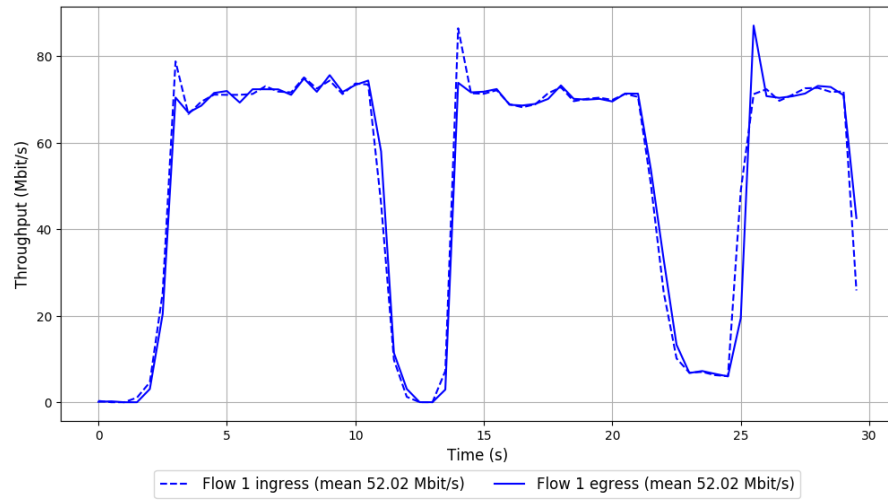
-- Flow 1:

Average throughput: 52.02 Mbit/s

95th percentile per-packet one-way delay: 114.856 ms

Loss rate: 0.00%

Run 10: Report of QUIC Cubic — Data Link

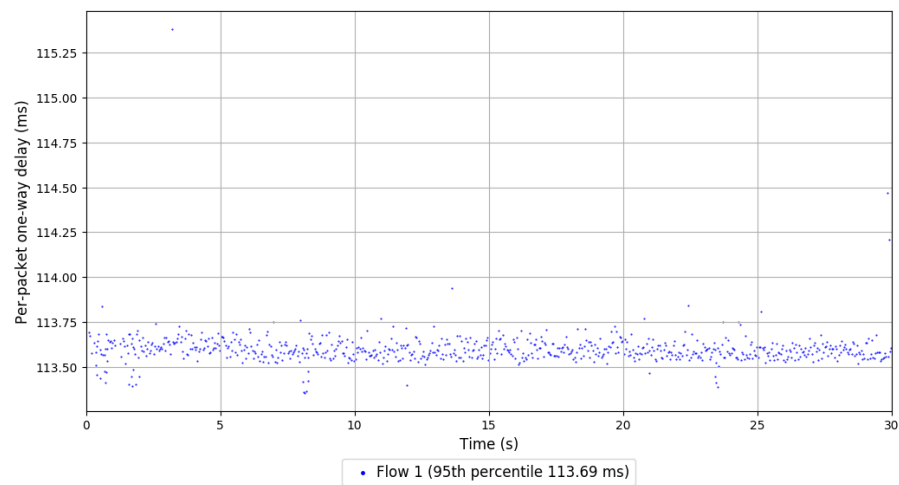
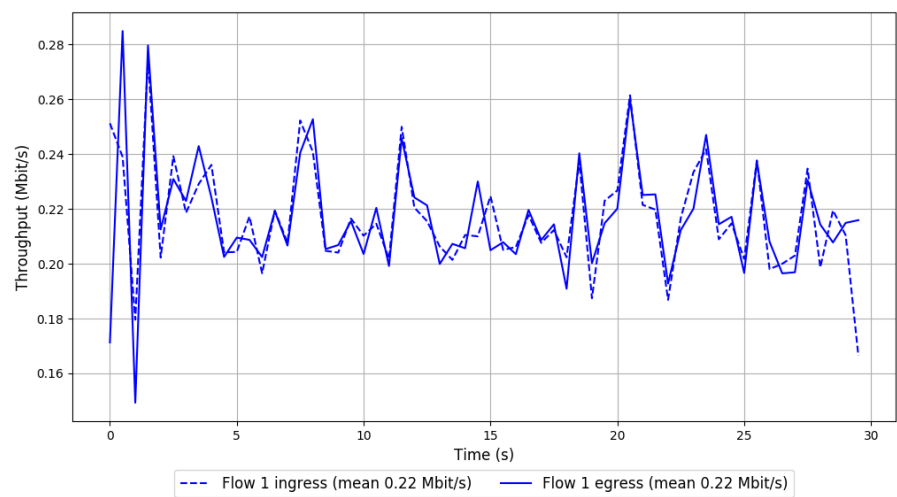


```
Run 1: Statistics of SCReAM

Start at: 2018-02-27 08:52:28
End at: 2018-02-27 08:52:58

# Below is generated by plot.py at 2018-02-27 13:14:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 113.688 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 113.688 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2018-02-27 09:07:13

End at: 2018-02-27 09:07:43

Below is generated by plot.py at 2018-02-27 13:14:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 114.589 ms

Loss rate: 0.00%

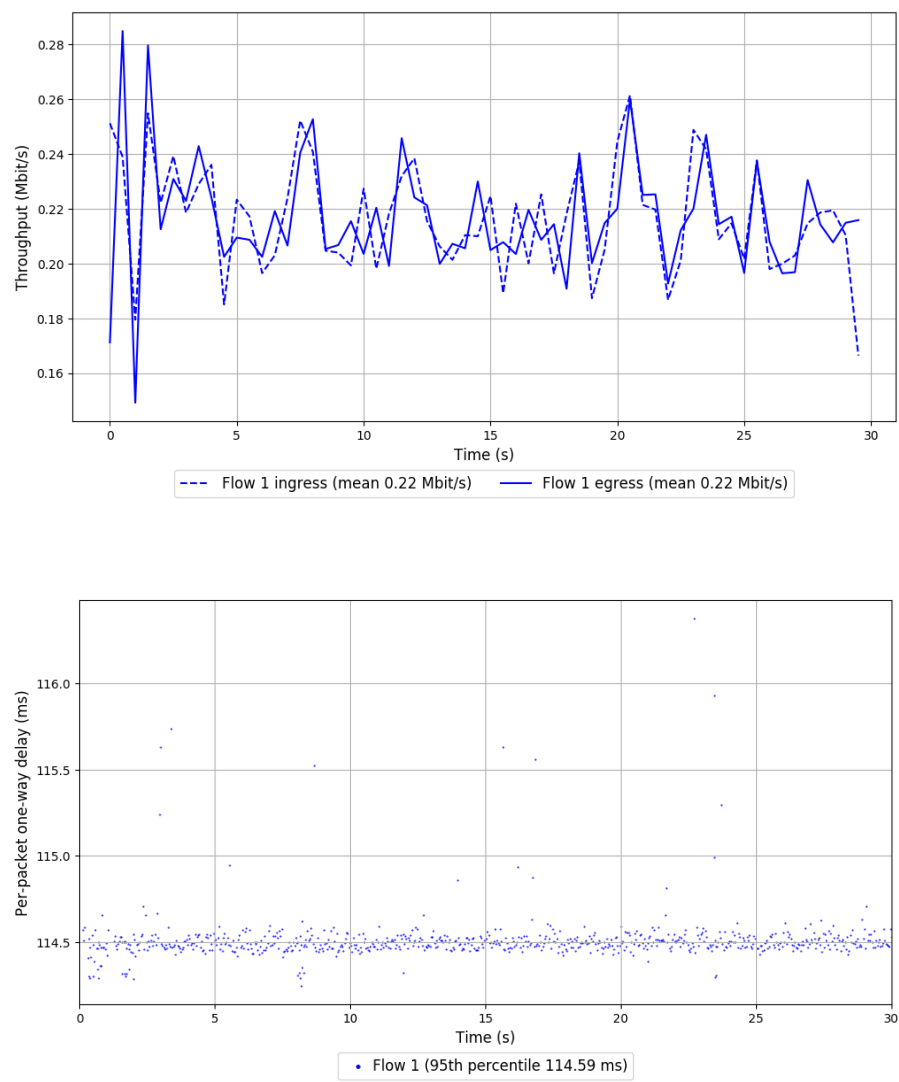
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 114.589 ms

Loss rate: 0.00%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-02-27 09:21:49

End at: 2018-02-27 09:22:19

Below is generated by plot.py at 2018-02-27 13:14:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 114.650 ms

Loss rate: 0.00%

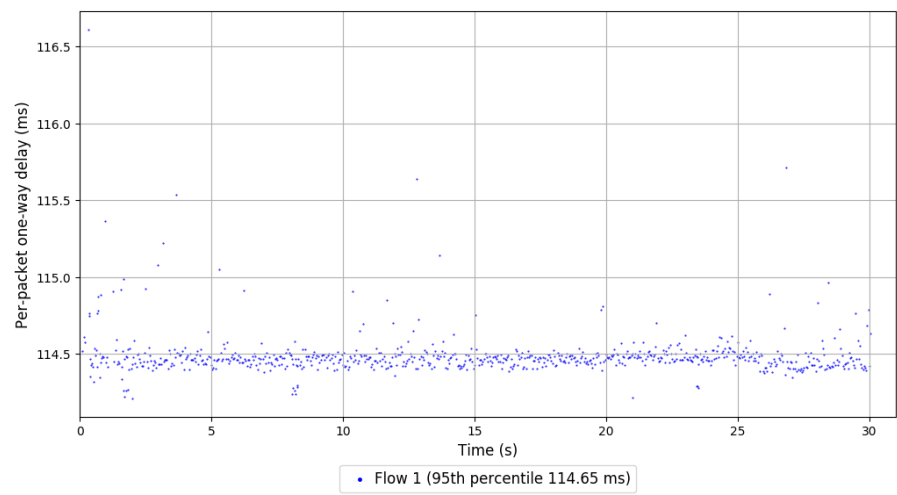
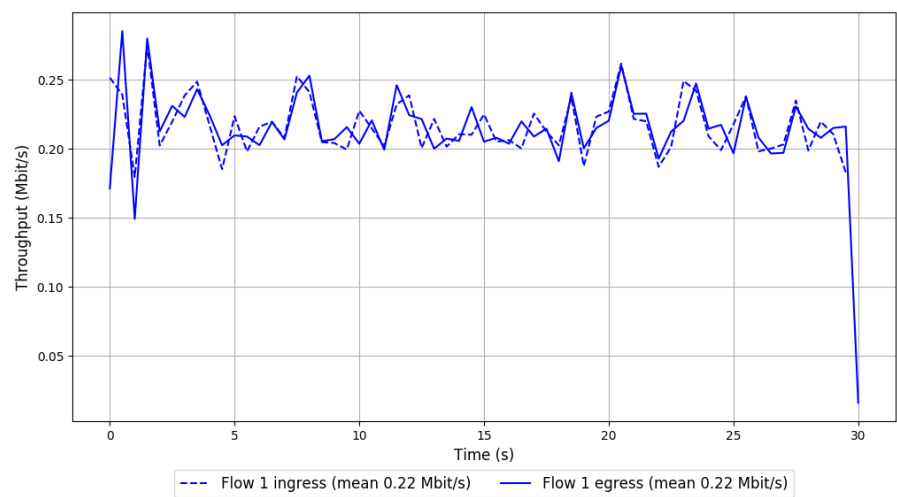
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 114.650 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2018-02-27 09:36:24

End at: 2018-02-27 09:36:54

Below is generated by plot.py at 2018-02-27 13:14:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 115.020 ms

Loss rate: 0.00%

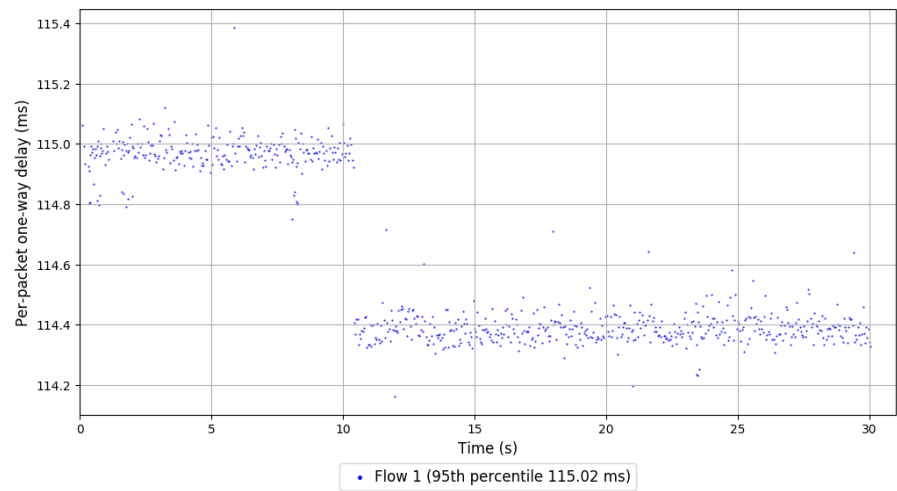
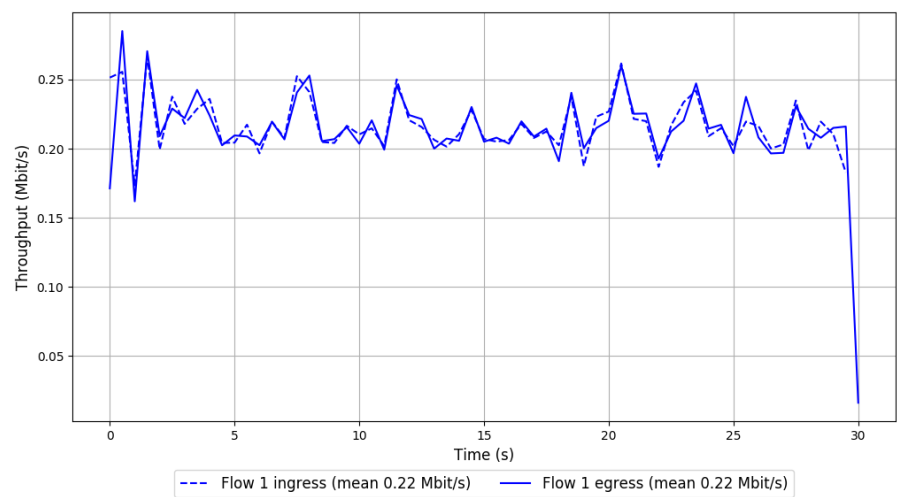
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 115.020 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-02-27 09:51:15

End at: 2018-02-27 09:51:45

Below is generated by plot.py at 2018-02-27 13:14:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 91.082 ms

Loss rate: 0.00%

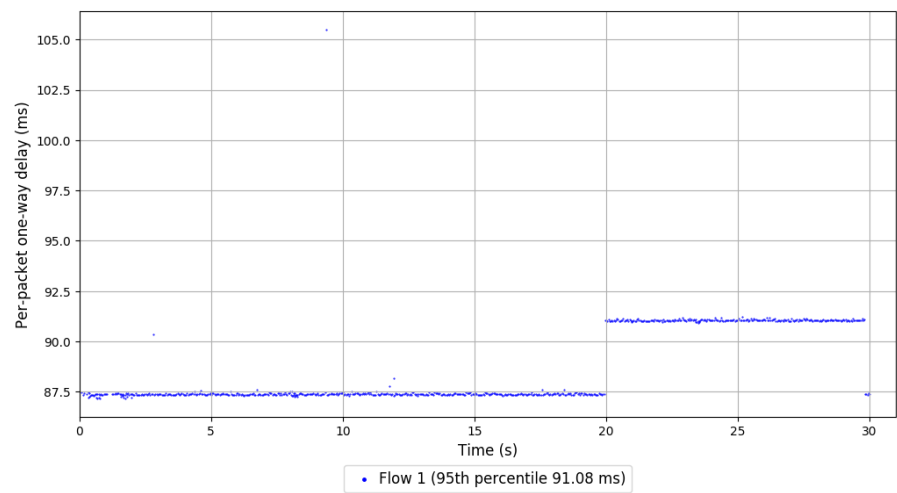
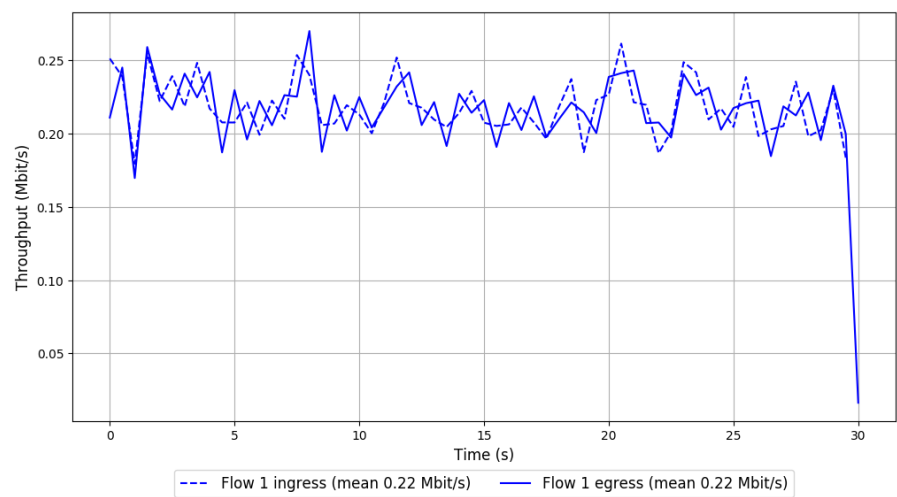
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 91.082 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-02-27 10:05:54

End at: 2018-02-27 10:06:24

Below is generated by plot.py at 2018-02-27 13:14:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 114.756 ms

Loss rate: 0.00%

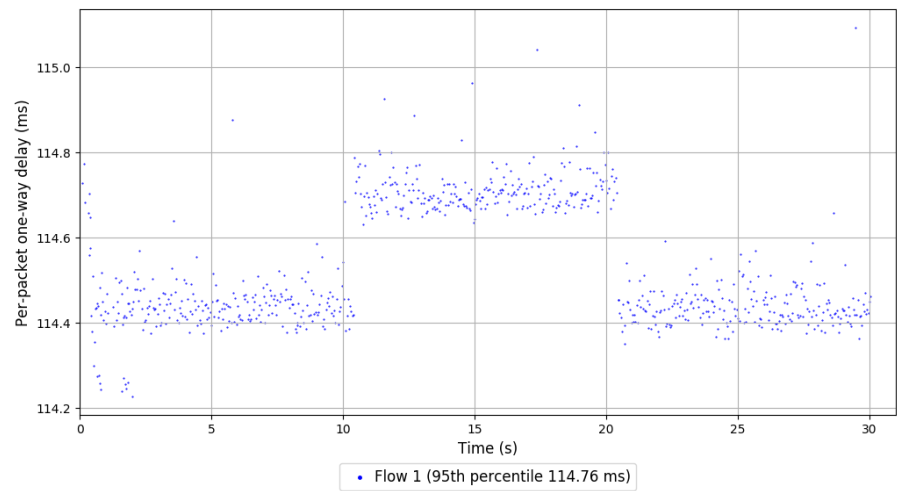
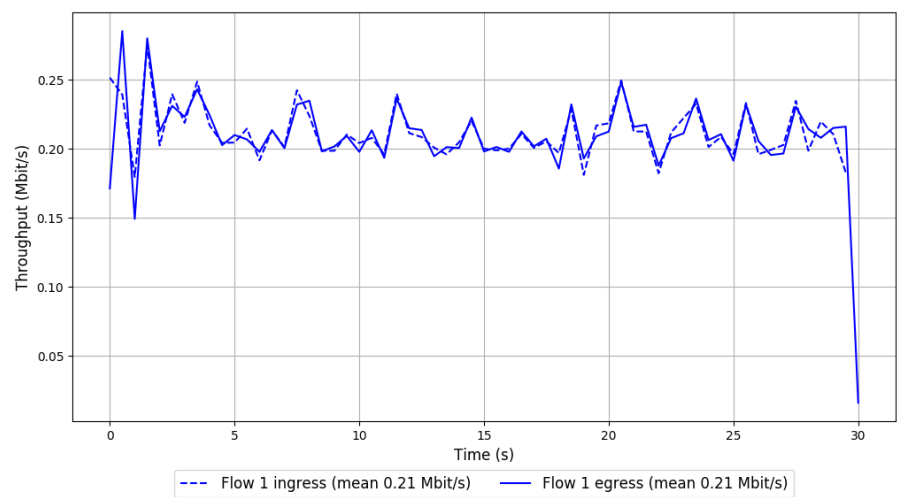
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 114.756 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2018-02-27 10:20:41

End at: 2018-02-27 10:21:11

Below is generated by plot.py at 2018-02-27 13:14:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.612 ms

Loss rate: 0.00%

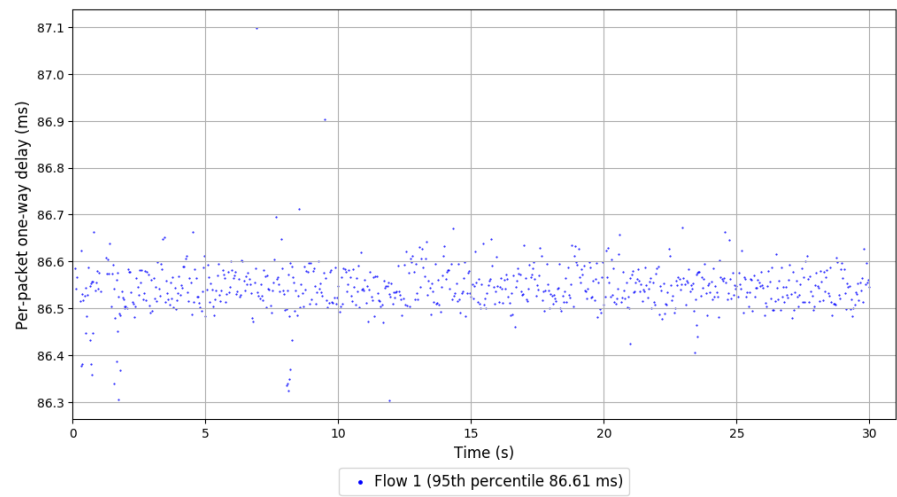
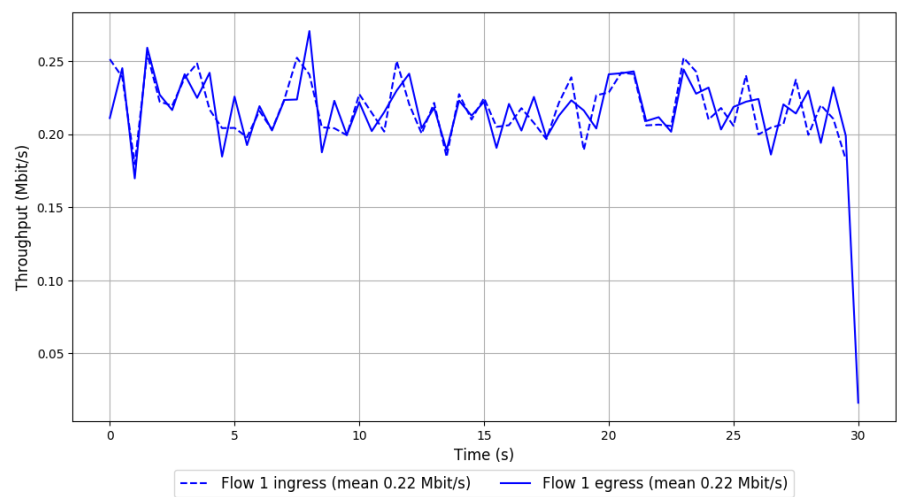
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.612 ms

Loss rate: 0.00%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-02-27 10:35:54

End at: 2018-02-27 10:36:24

Below is generated by plot.py at 2018-02-27 13:14:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 114.928 ms

Loss rate: 0.00%

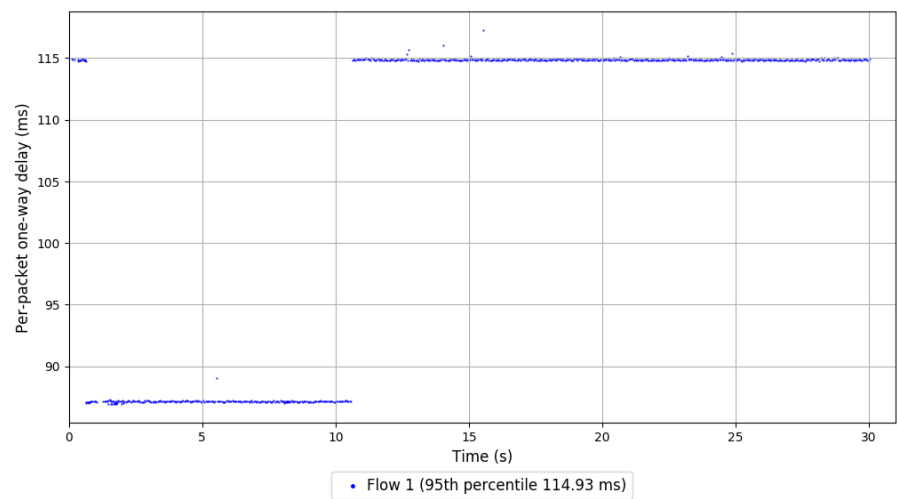
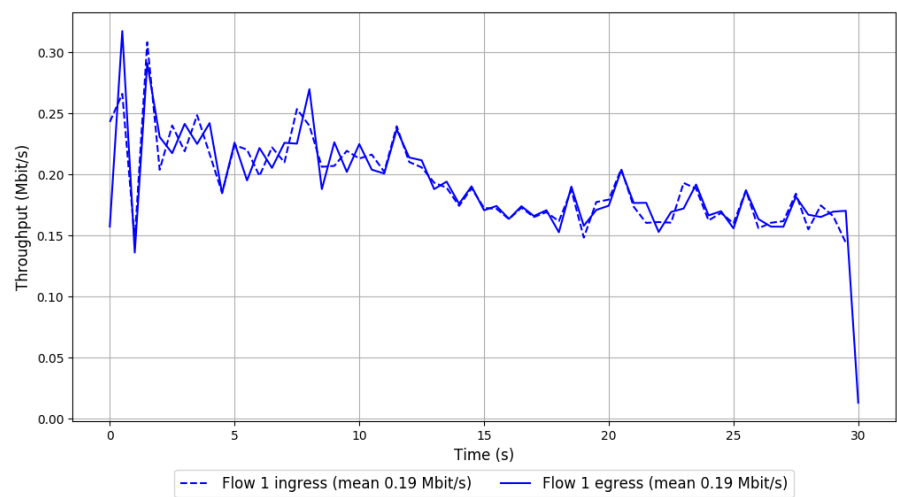
-- Flow 1:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 114.928 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-02-27 10:50:35

End at: 2018-02-27 10:51:05

Below is generated by plot.py at 2018-02-27 13:14:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 114.806 ms

Loss rate: 0.00%

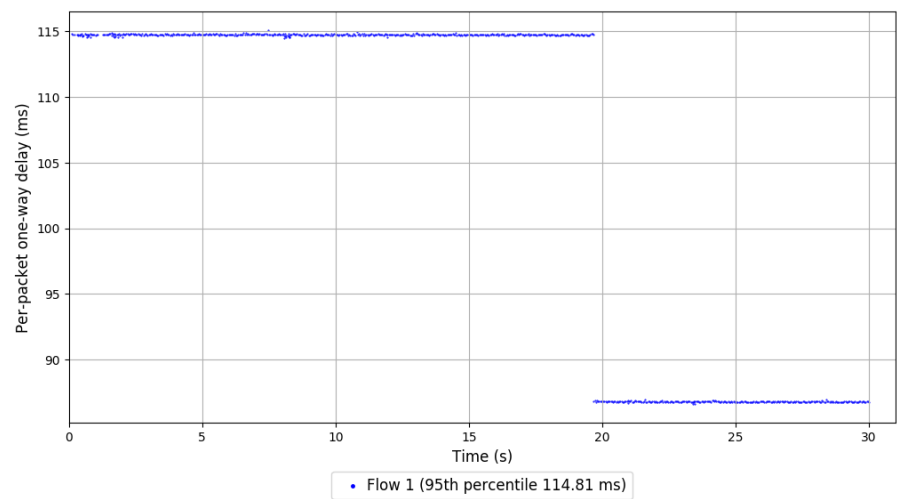
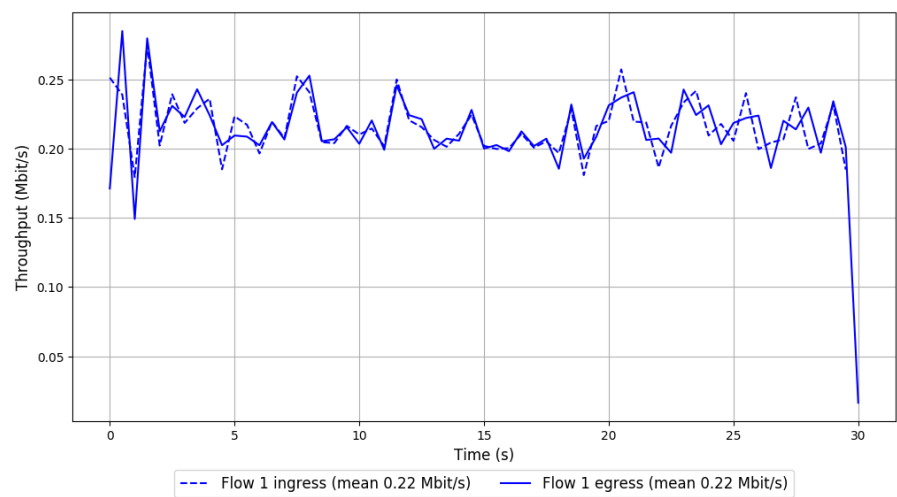
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 114.806 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-02-27 11:05:28

End at: 2018-02-27 11:05:58

Below is generated by plot.py at 2018-02-27 13:14:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 115.079 ms

Loss rate: 0.00%

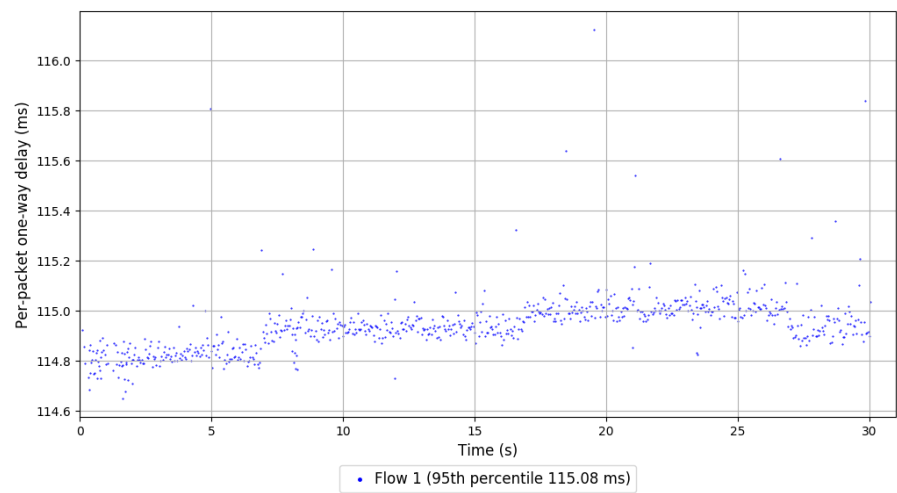
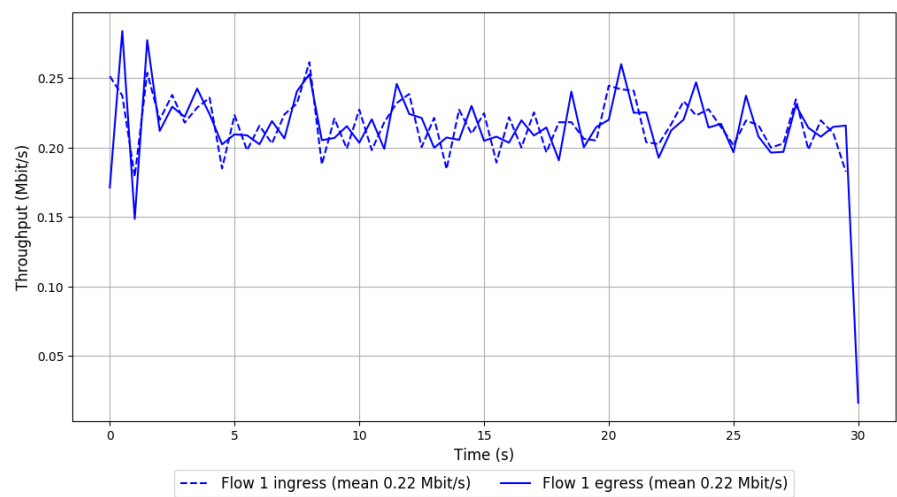
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 115.079 ms

Loss rate: 0.00%

Run 10: Report of SReAM — Data Link

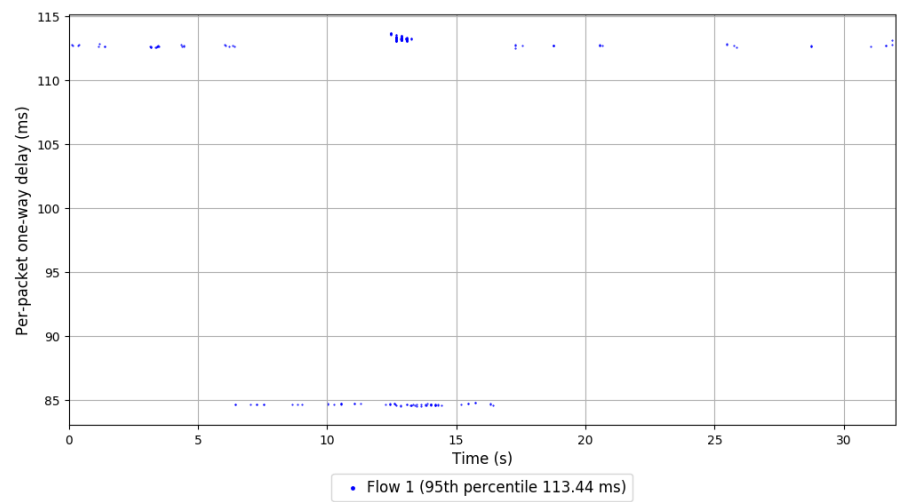
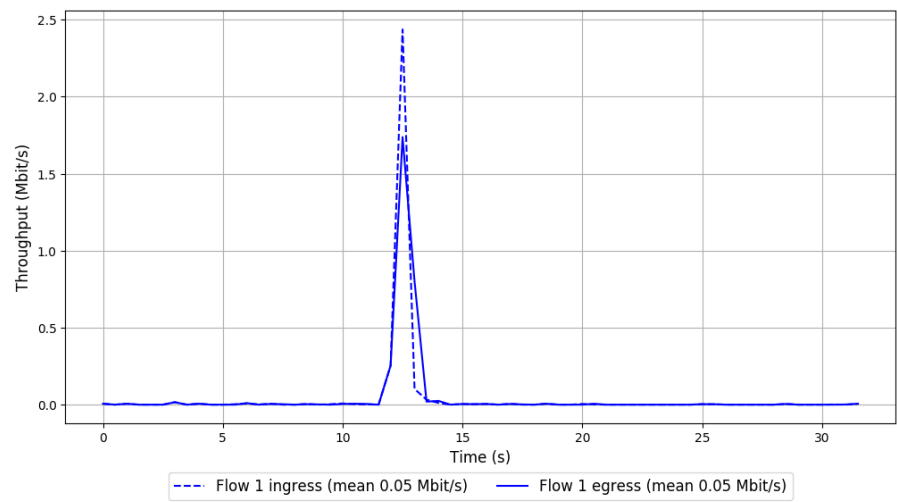


```
Run 1: Statistics of WebRTC media

Start at: 2018-02-27 08:44:20
End at: 2018-02-27 08:44:50

# Below is generated by plot.py at 2018-02-27 13:14:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 113.442 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 113.442 ms
Loss rate: 0.00%
```


Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-02-27 08:59:25

End at: 2018-02-27 08:59:55

Below is generated by plot.py at 2018-02-27 13:14:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 86.878 ms

Loss rate: 0.00%

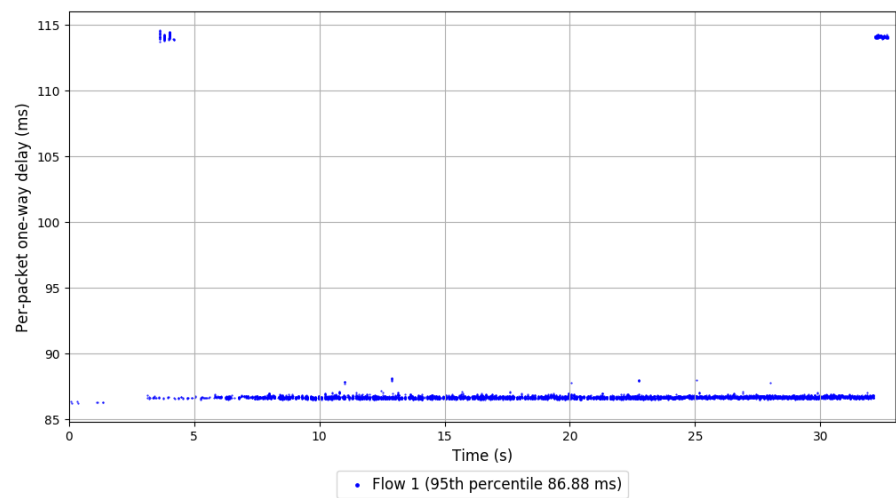
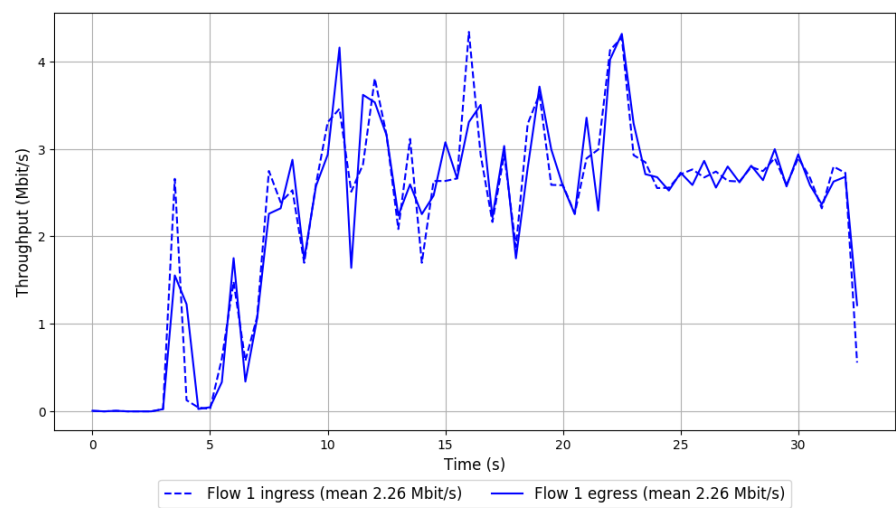
-- Flow 1:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 86.878 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-02-27 09:14:05

End at: 2018-02-27 09:14:35

Below is generated by plot.py at 2018-02-27 13:14:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.20 Mbit/s

95th percentile per-packet one-way delay: 114.777 ms

Loss rate: 0.00%

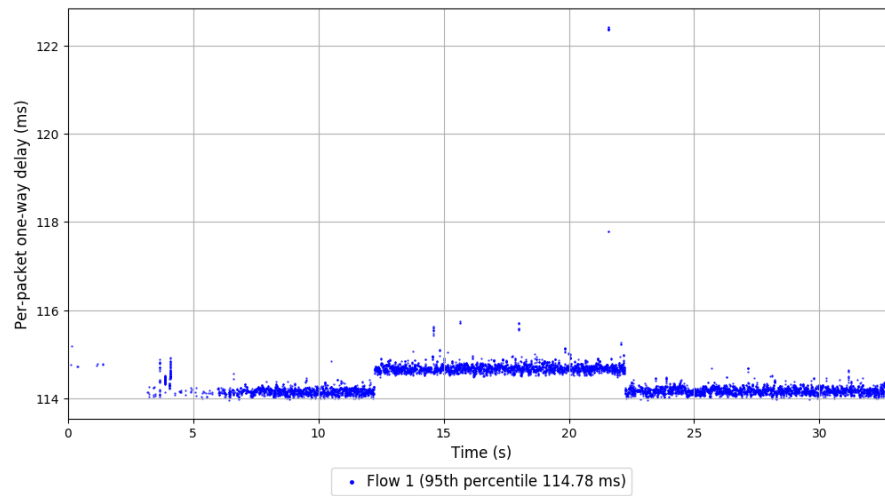
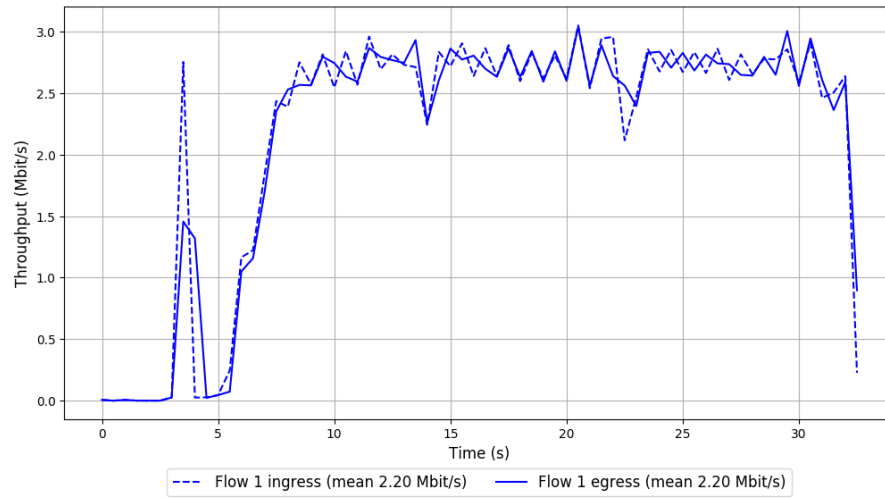
-- Flow 1:

Average throughput: 2.20 Mbit/s

95th percentile per-packet one-way delay: 114.777 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-02-27 09:28:38

End at: 2018-02-27 09:29:08

Below is generated by plot.py at 2018-02-27 13:14:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.22 Mbit/s

95th percentile per-packet one-way delay: 91.010 ms

Loss rate: 0.00%

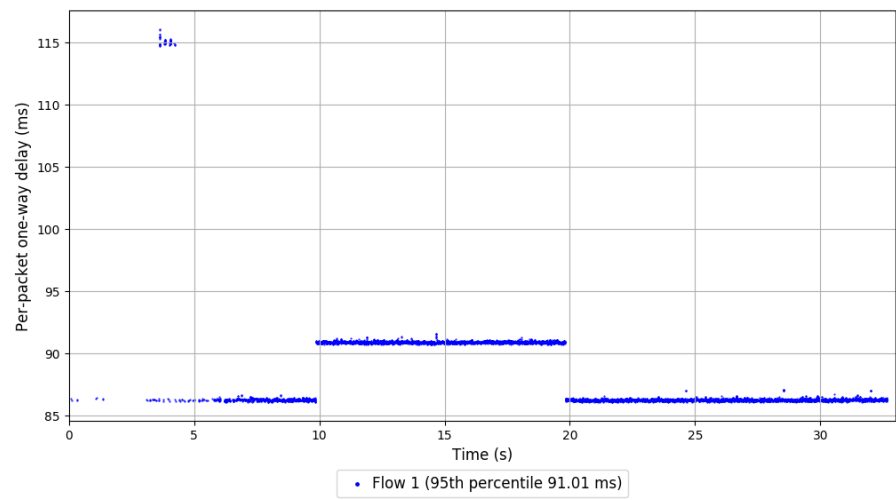
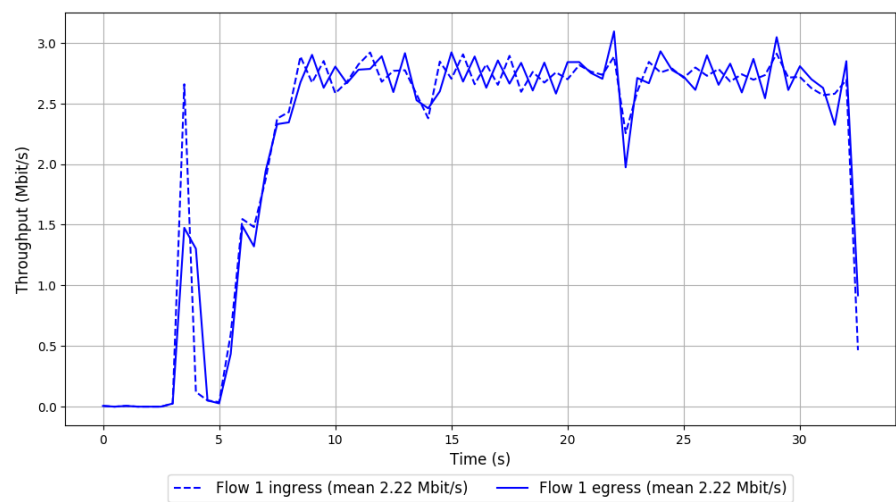
-- Flow 1:

Average throughput: 2.22 Mbit/s

95th percentile per-packet one-way delay: 91.010 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-02-27 09:43:11

End at: 2018-02-27 09:43:41

Below is generated by plot.py at 2018-02-27 13:14:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.22 Mbit/s

95th percentile per-packet one-way delay: 91.131 ms

Loss rate: 0.00%

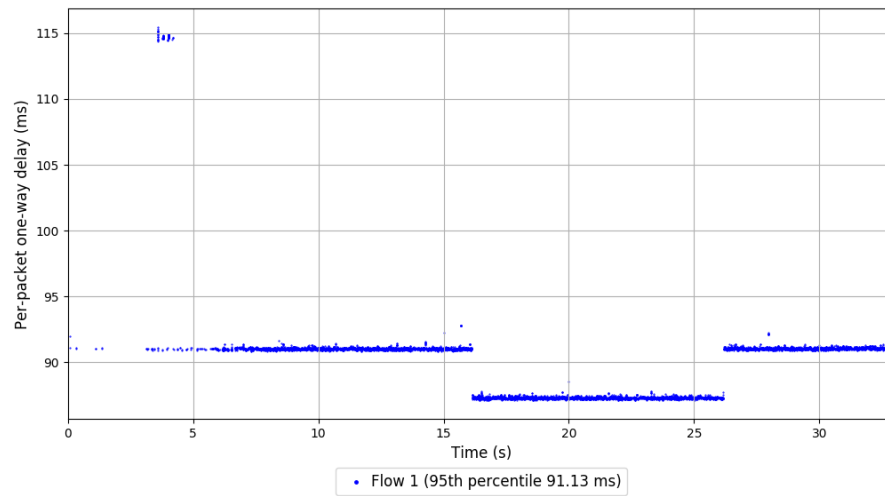
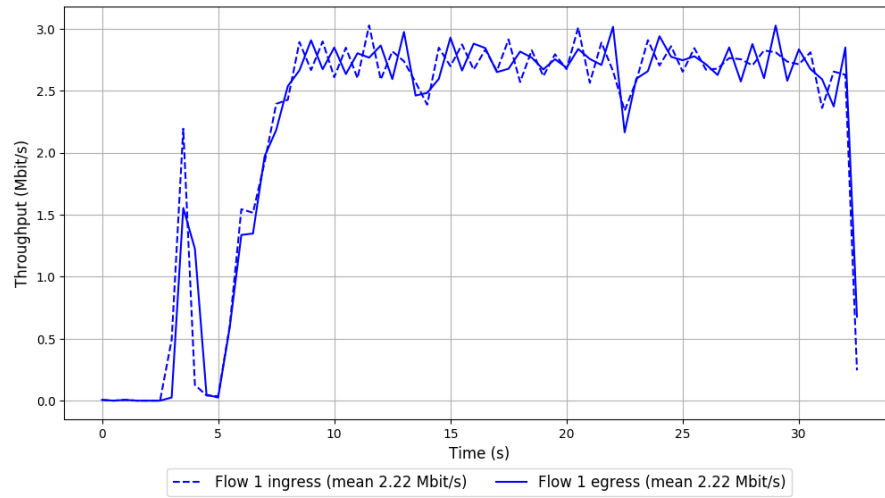
-- Flow 1:

Average throughput: 2.22 Mbit/s

95th percentile per-packet one-way delay: 91.131 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-02-27 09:58:08

End at: 2018-02-27 09:58:38

Below is generated by plot.py at 2018-02-27 13:14:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.19 Mbit/s

95th percentile per-packet one-way delay: 114.912 ms

Loss rate: 0.00%

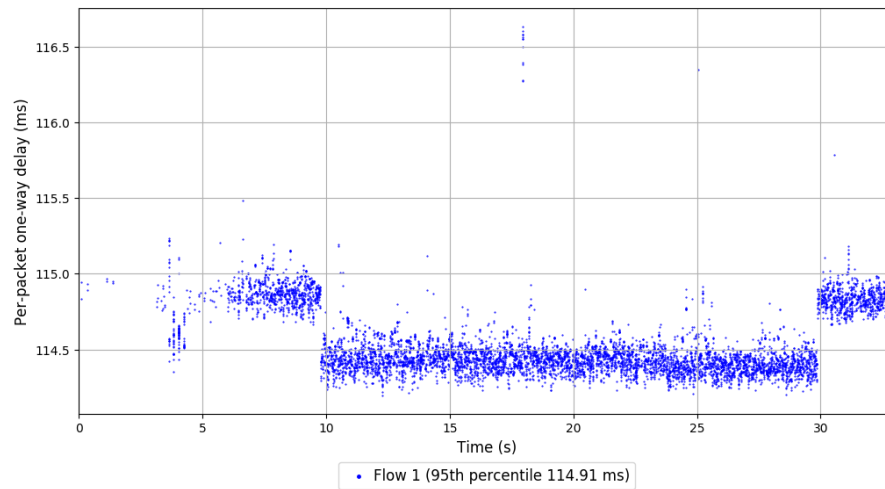
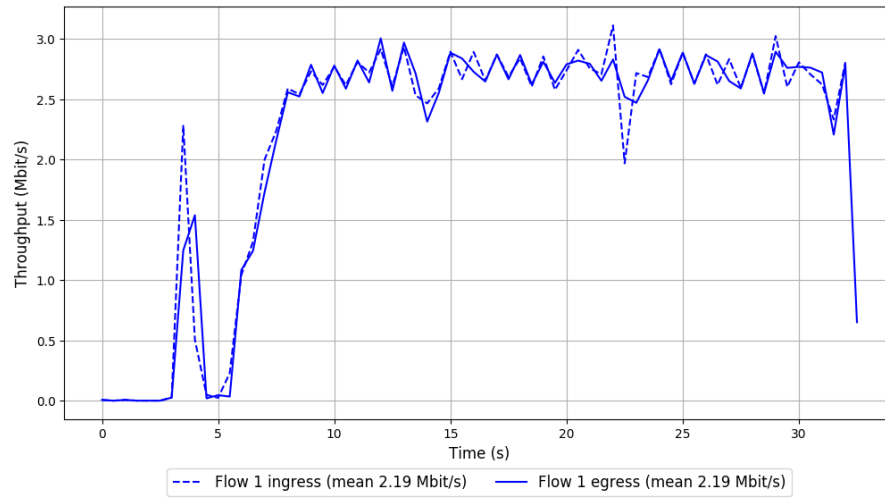
-- Flow 1:

Average throughput: 2.19 Mbit/s

95th percentile per-packet one-way delay: 114.912 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-02-27 10:12:48

End at: 2018-02-27 10:13:18

Below is generated by plot.py at 2018-02-27 13:14:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.23 Mbit/s

95th percentile per-packet one-way delay: 91.101 ms

Loss rate: 0.00%

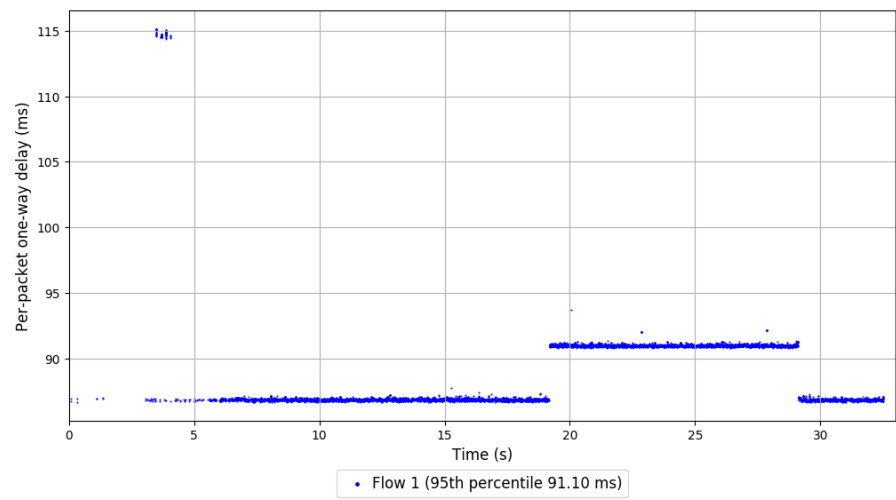
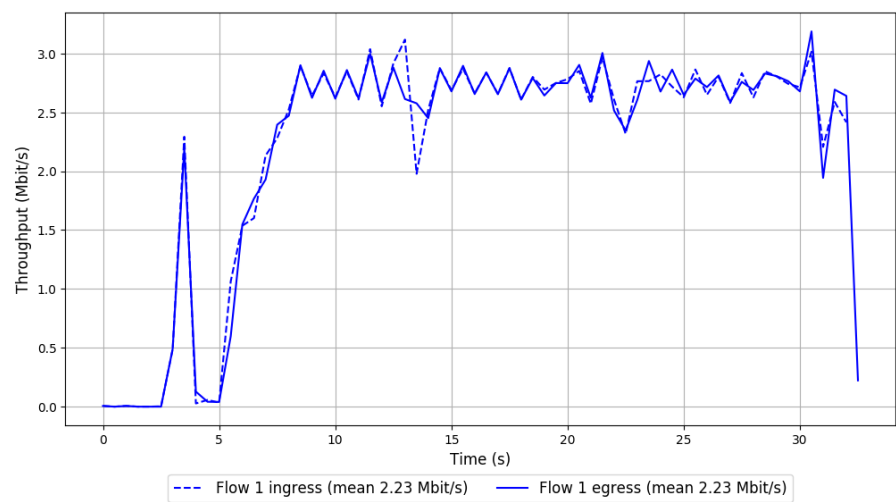
-- Flow 1:

Average throughput: 2.23 Mbit/s

95th percentile per-packet one-way delay: 91.101 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-02-27 10:27:43

End at: 2018-02-27 10:28:13

Below is generated by plot.py at 2018-02-27 13:14:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.23 Mbit/s

95th percentile per-packet one-way delay: 91.133 ms

Loss rate: 0.00%

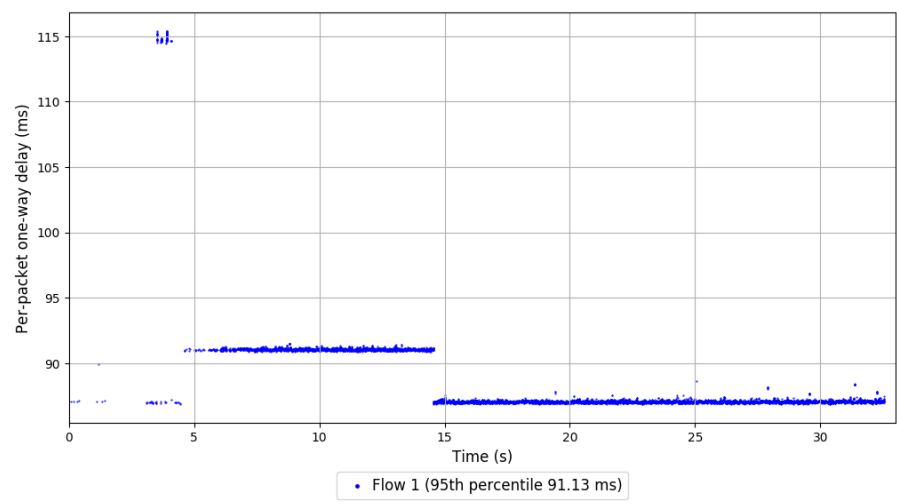
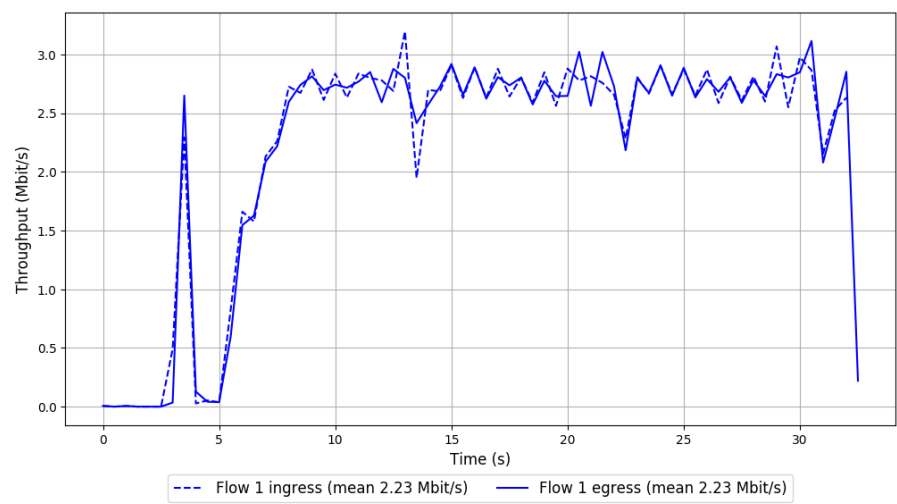
-- Flow 1:

Average throughput: 2.23 Mbit/s

95th percentile per-packet one-way delay: 91.133 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-02-27 10:42:49

End at: 2018-02-27 10:43:19

Below is generated by plot.py at 2018-02-27 13:14:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 114.973 ms

Loss rate: 0.00%

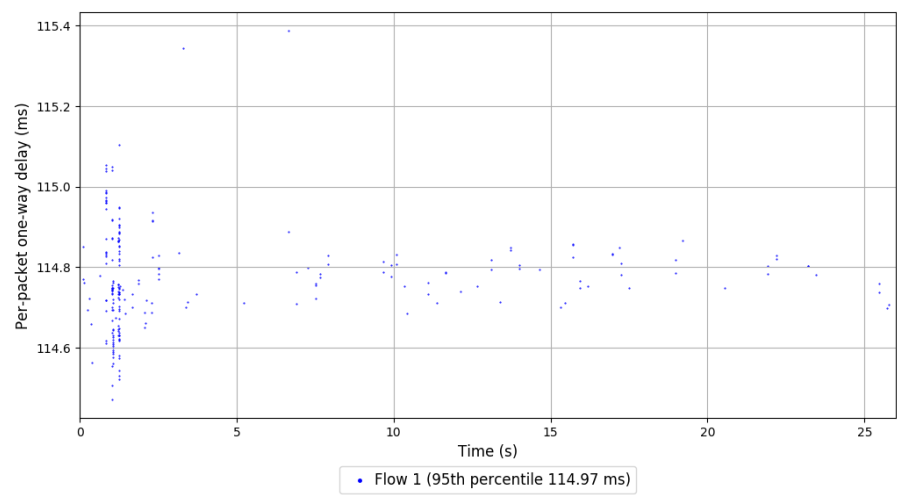
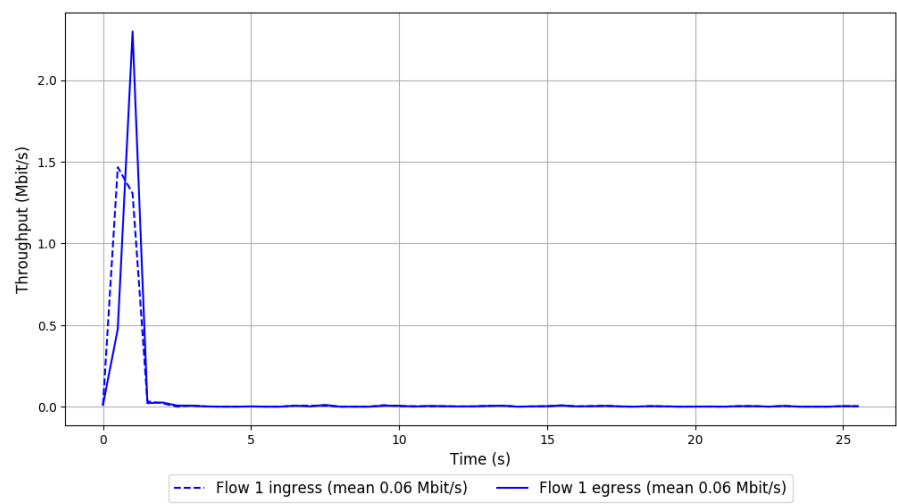
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 114.973 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-02-27 10:57:27

End at: 2018-02-27 10:57:58

Below is generated by plot.py at 2018-02-27 13:14:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 115.151 ms

Loss rate: 0.00%

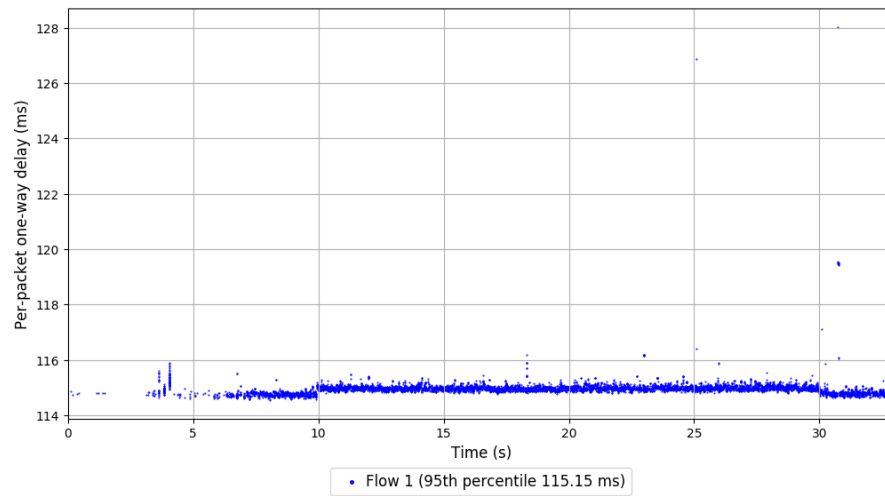
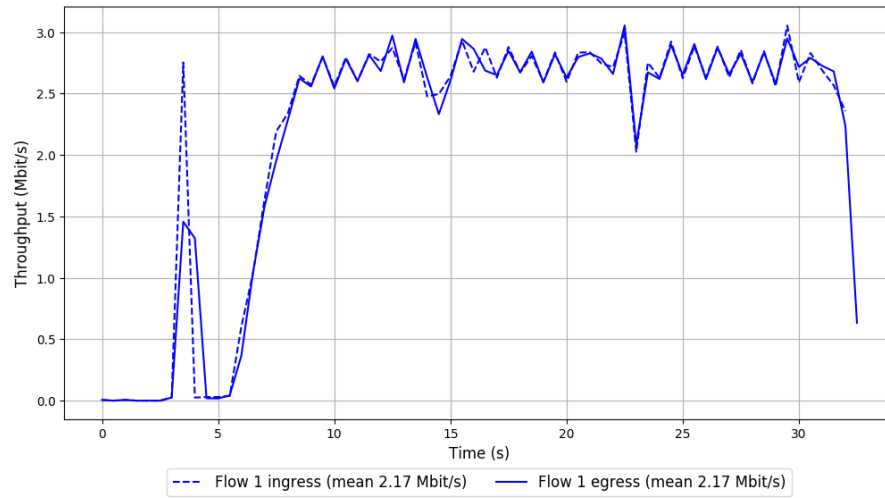
-- Flow 1:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 115.151 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2018-02-27 08:43:40

End at: 2018-02-27 08:44:10

Below is generated by plot.py at 2018-02-27 13:14:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 112.942 ms

Loss rate: 0.00%

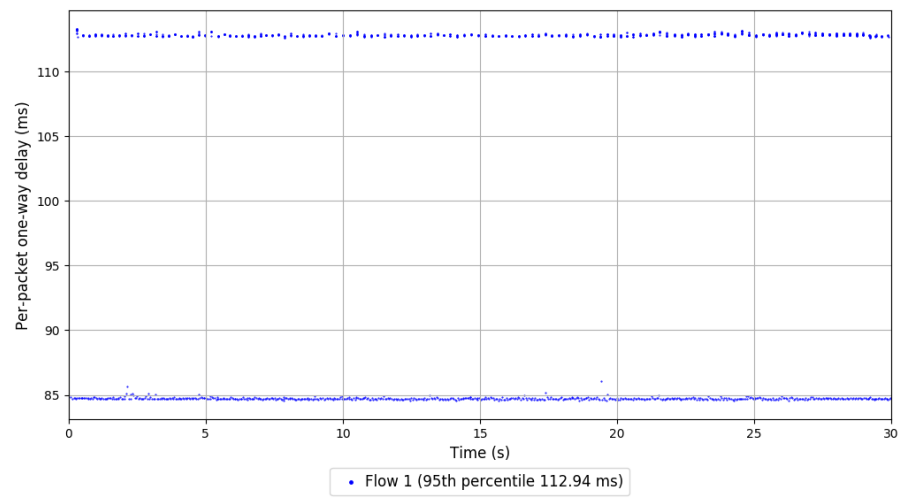
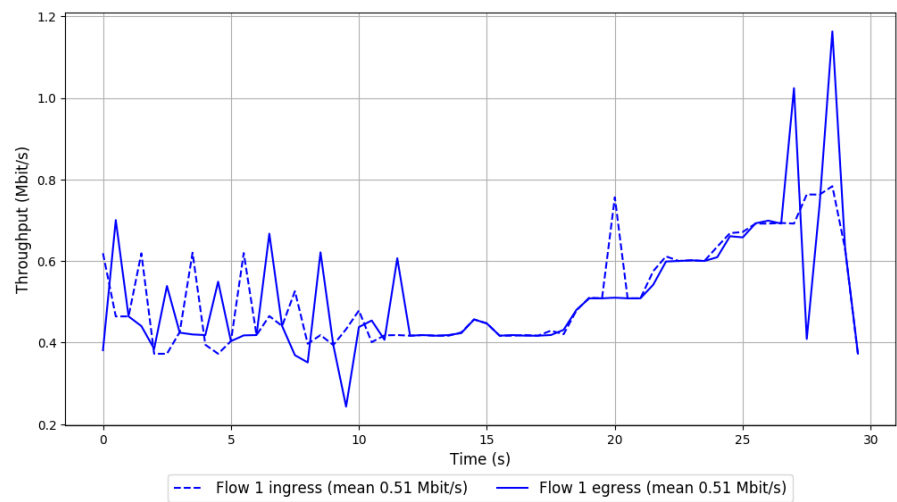
-- Flow 1:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 112.942 ms

Loss rate: 0.00%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-02-27 08:58:45

End at: 2018-02-27 08:59:15

Below is generated by plot.py at 2018-02-27 13:14:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.37 Mbit/s

95th percentile per-packet one-way delay: 115.089 ms

Loss rate: 0.00%

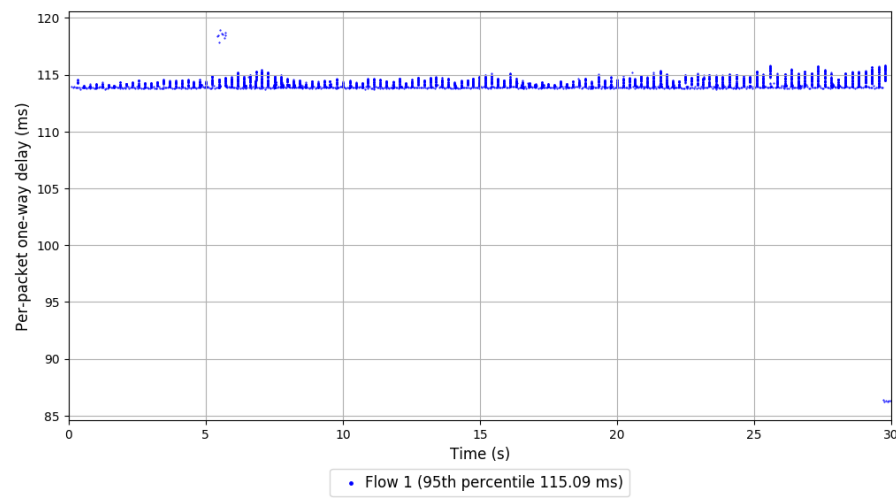
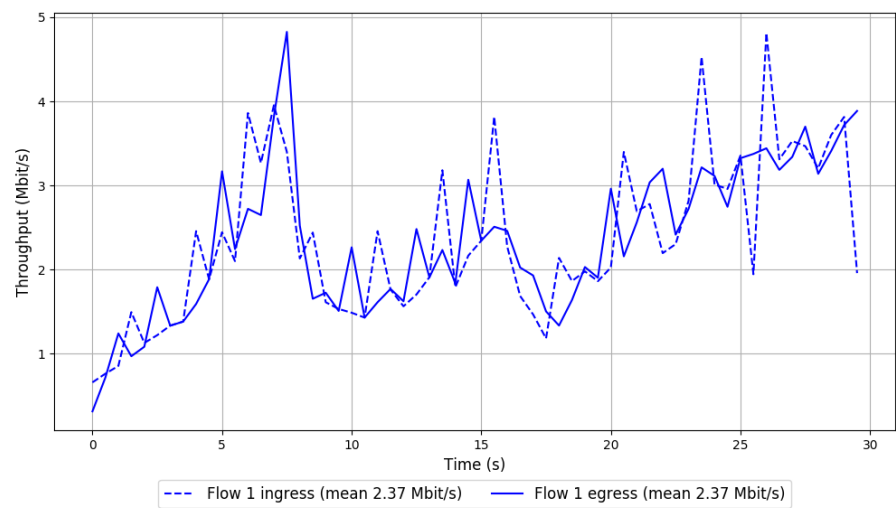
-- Flow 1:

Average throughput: 2.37 Mbit/s

95th percentile per-packet one-way delay: 115.089 ms

Loss rate: 0.00%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-02-27 09:13:25

End at: 2018-02-27 09:13:55

Below is generated by plot.py at 2018-02-27 13:14:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.82 Mbit/s

95th percentile per-packet one-way delay: 114.886 ms

Loss rate: 0.00%

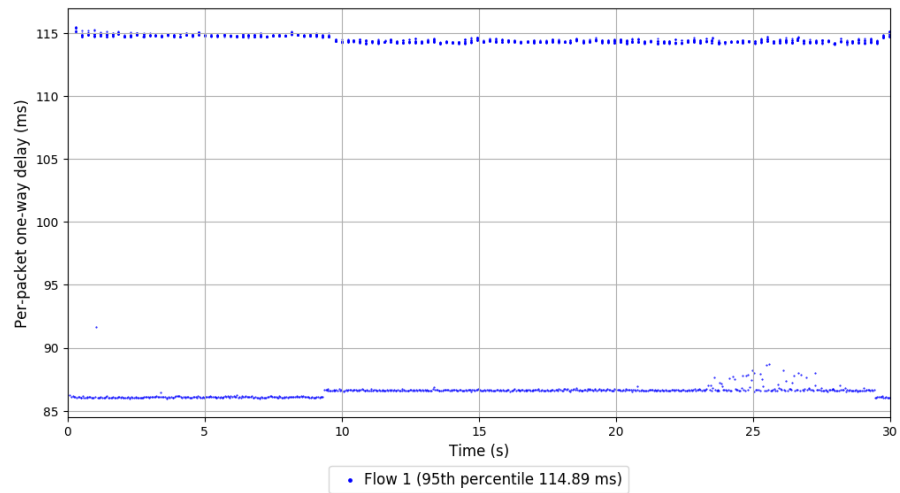
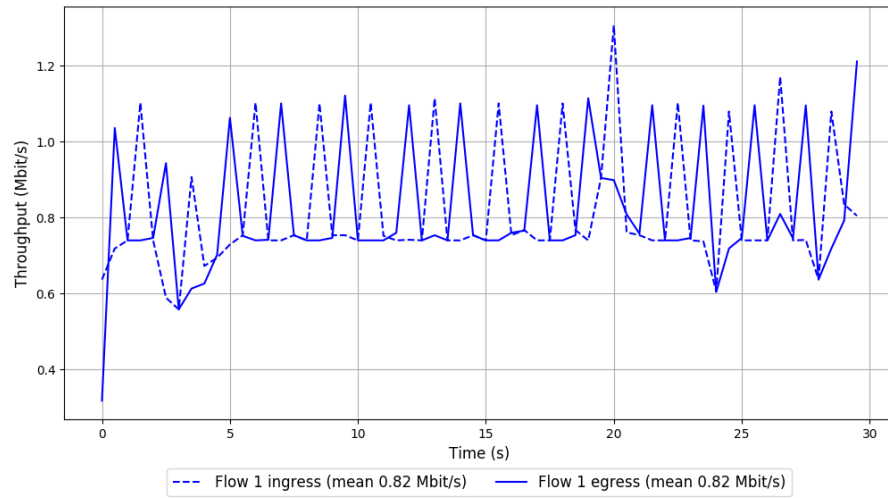
-- Flow 1:

Average throughput: 0.82 Mbit/s

95th percentile per-packet one-way delay: 114.886 ms

Loss rate: 0.00%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-02-27 09:27:58

End at: 2018-02-27 09:28:28

Below is generated by plot.py at 2018-02-27 13:14:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 115.105 ms

Loss rate: 0.00%

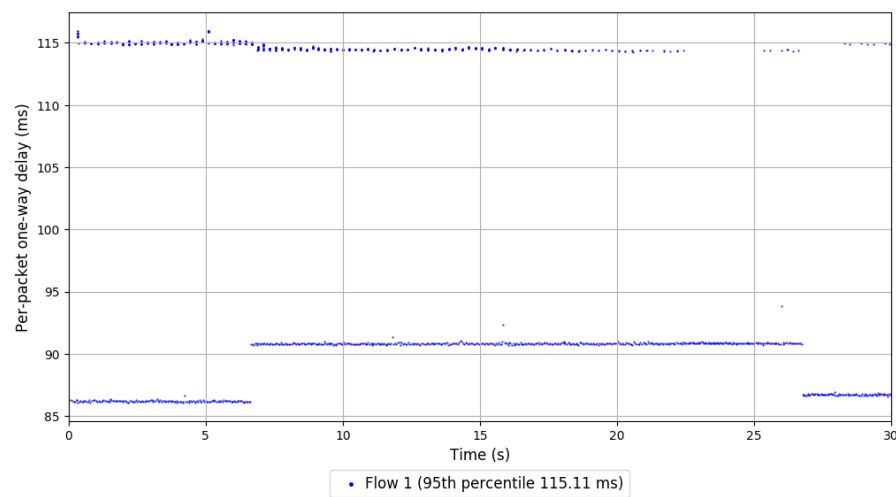
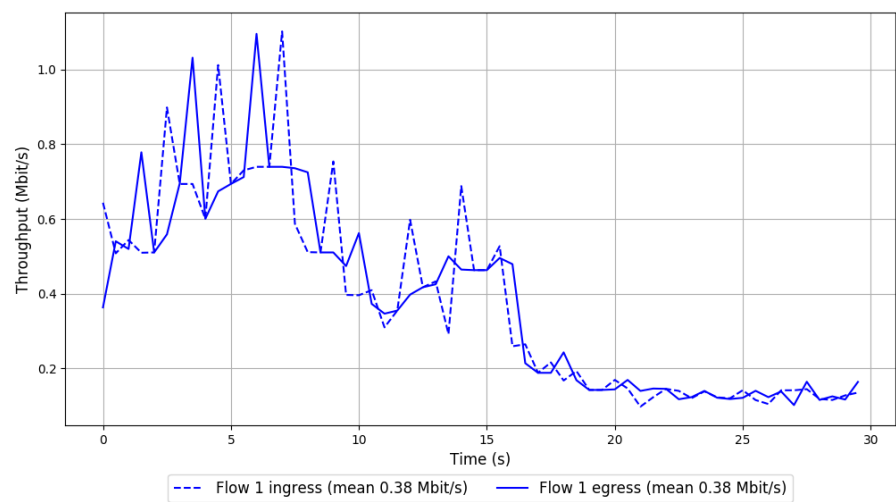
-- Flow 1:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 115.105 ms

Loss rate: 0.00%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-02-27 09:42:31

End at: 2018-02-27 09:43:01

Below is generated by plot.py at 2018-02-27 13:14:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.00 Mbit/s

95th percentile per-packet one-way delay: 116.064 ms

Loss rate: 0.00%

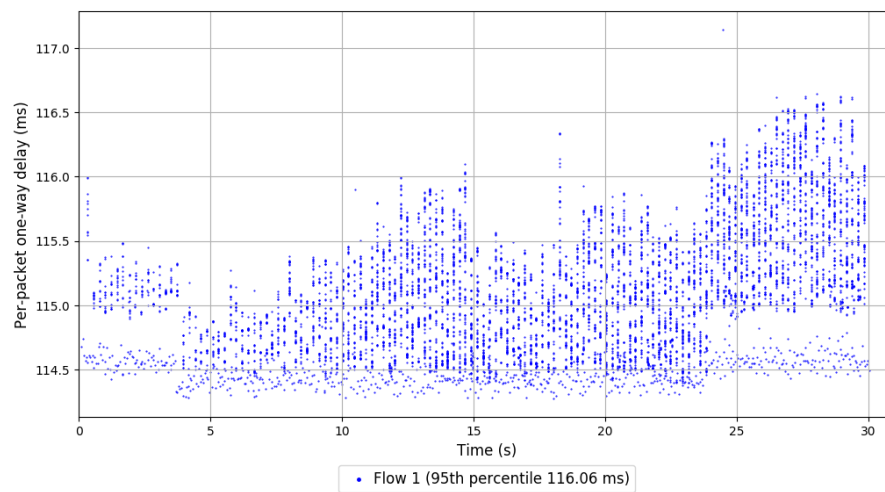
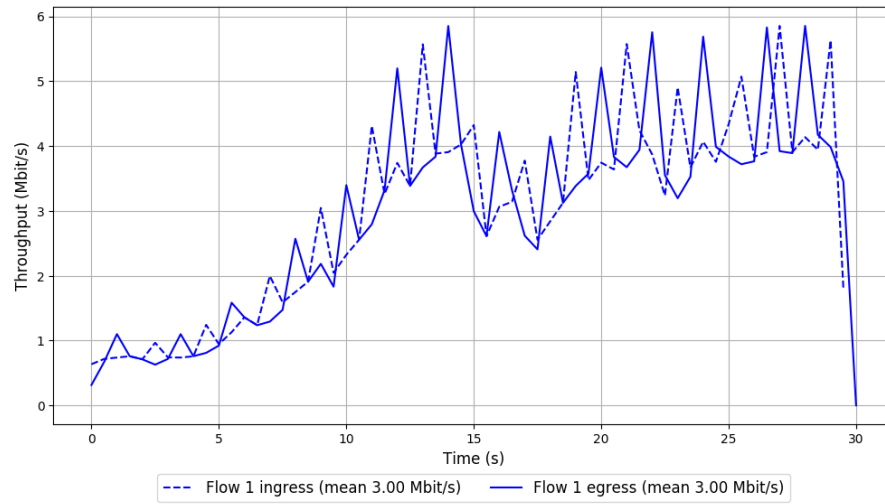
-- Flow 1:

Average throughput: 3.00 Mbit/s

95th percentile per-packet one-way delay: 116.064 ms

Loss rate: 0.00%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-02-27 09:57:27

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

Below is generated by plot.py at 2018-02-27 13:14:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.26 Mbit/s

95th percentile per-packet one-way delay: 116.006 ms

Loss rate: 0.00%

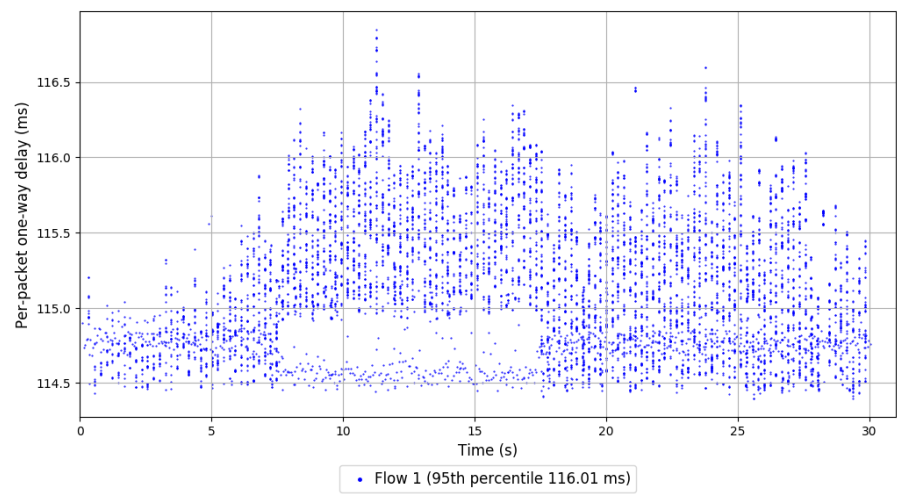
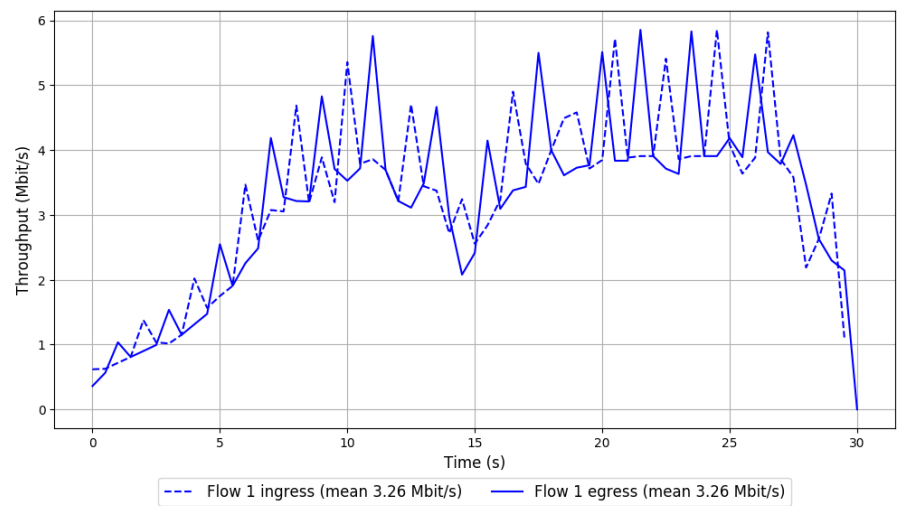
-- Flow 1:

Average throughput: 3.26 Mbit/s

95th percentile per-packet one-way delay: 116.006 ms

Loss rate: 0.00%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-02-27 10:12:08

End at: 2018-02-27 10:12:38

Below is generated by plot.py at 2018-02-27 13:14:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.60 Mbit/s

95th percentile per-packet one-way delay: 115.138 ms

Loss rate: 0.00%

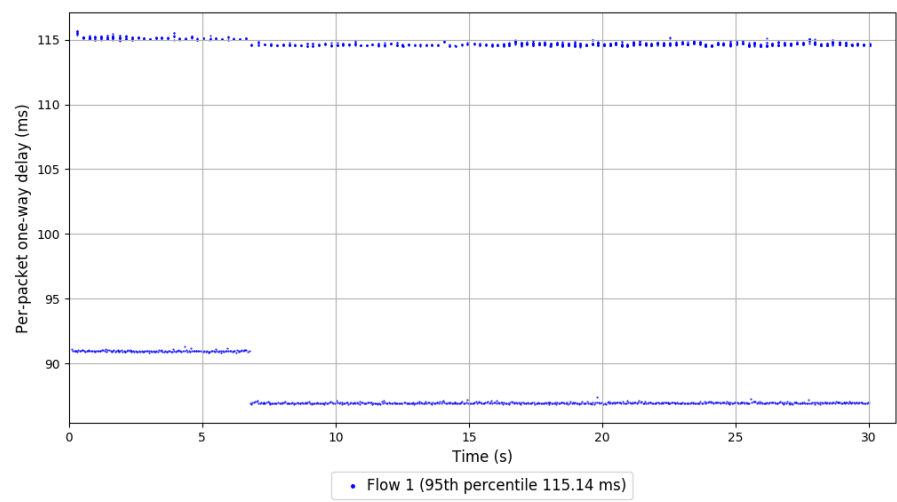
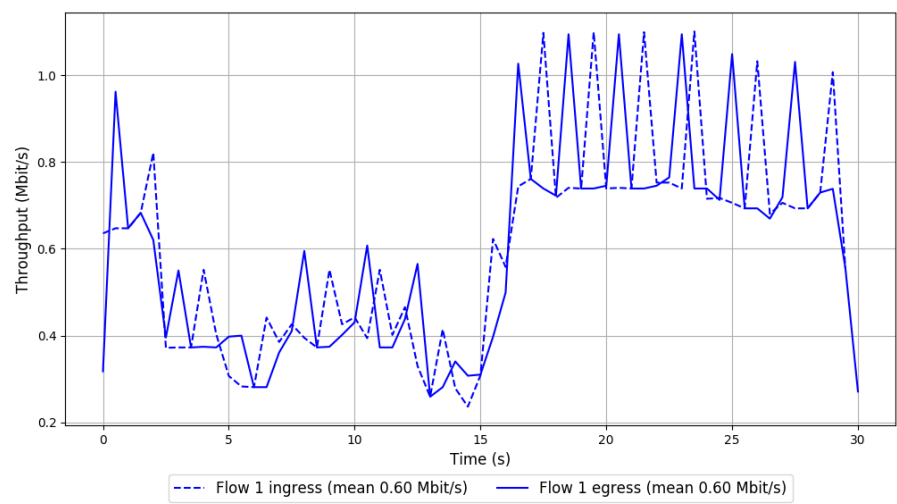
-- Flow 1:

Average throughput: 0.60 Mbit/s

95th percentile per-packet one-way delay: 115.138 ms

Loss rate: 0.00%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-02-27 10:27:03

End at: 2018-02-27 10:27:33

Below is generated by plot.py at 2018-02-27 13:14:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.10 Mbit/s

95th percentile per-packet one-way delay: 116.465 ms

Loss rate: 0.00%

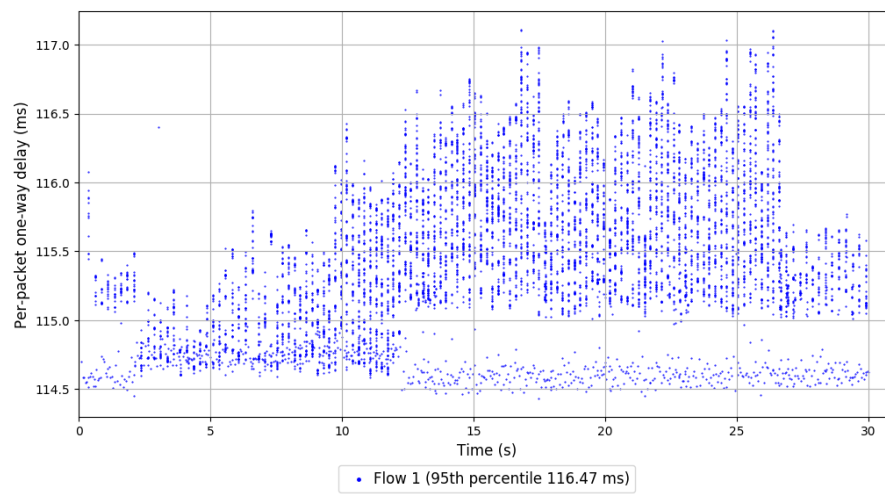
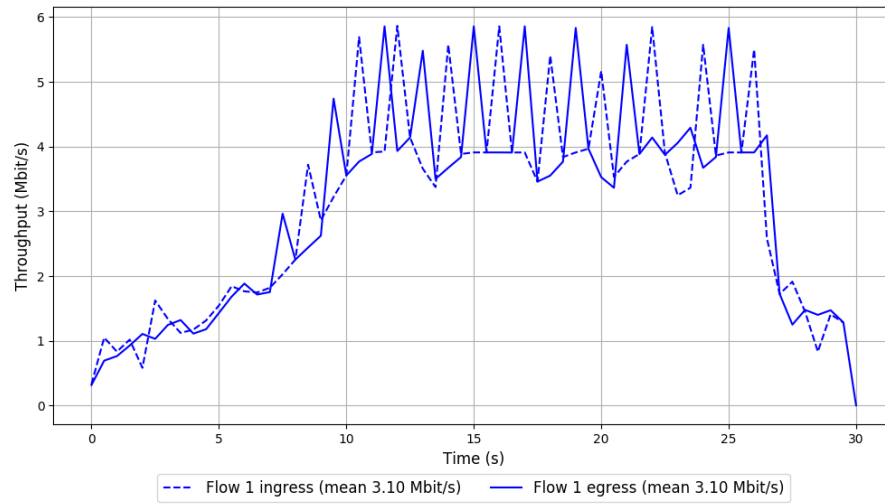
-- Flow 1:

Average throughput: 3.10 Mbit/s

95th percentile per-packet one-way delay: 116.465 ms

Loss rate: 0.00%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-02-27 10:42:09

End at: 2018-02-27 10:42:39

Below is generated by plot.py at 2018-02-27 13:14:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.33 Mbit/s

95th percentile per-packet one-way delay: 115.951 ms

Loss rate: 0.00%

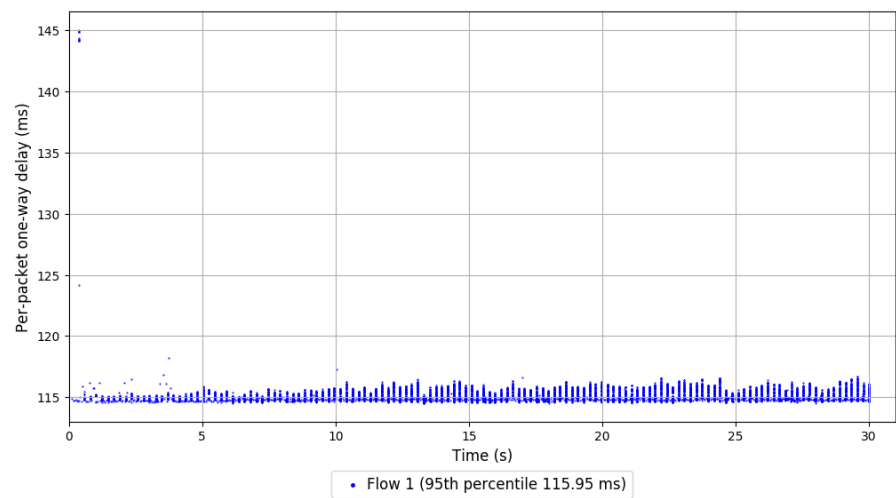
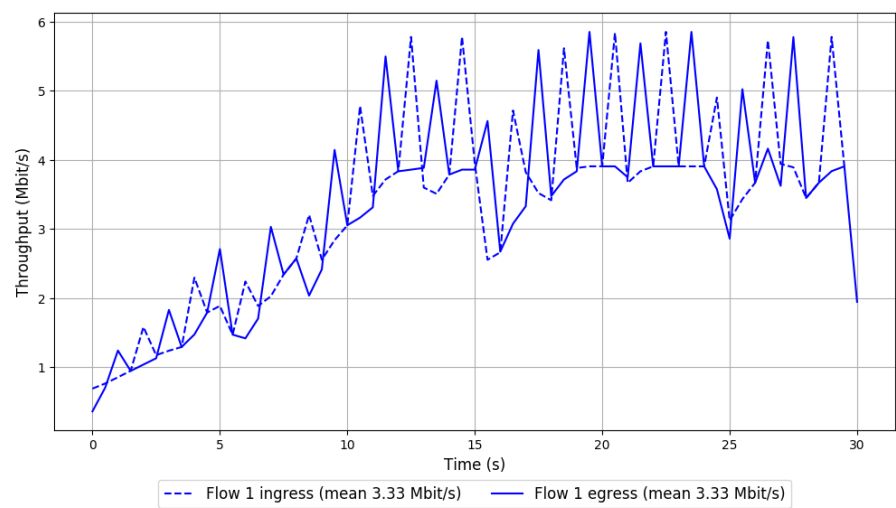
-- Flow 1:

Average throughput: 3.33 Mbit/s

95th percentile per-packet one-way delay: 115.951 ms

Loss rate: 0.00%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-02-27 10:56:48

End at: 2018-02-27 10:57:18

Below is generated by plot.py at 2018-02-27 13:14:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.54 Mbit/s

95th percentile per-packet one-way delay: 115.022 ms

Loss rate: 0.00%

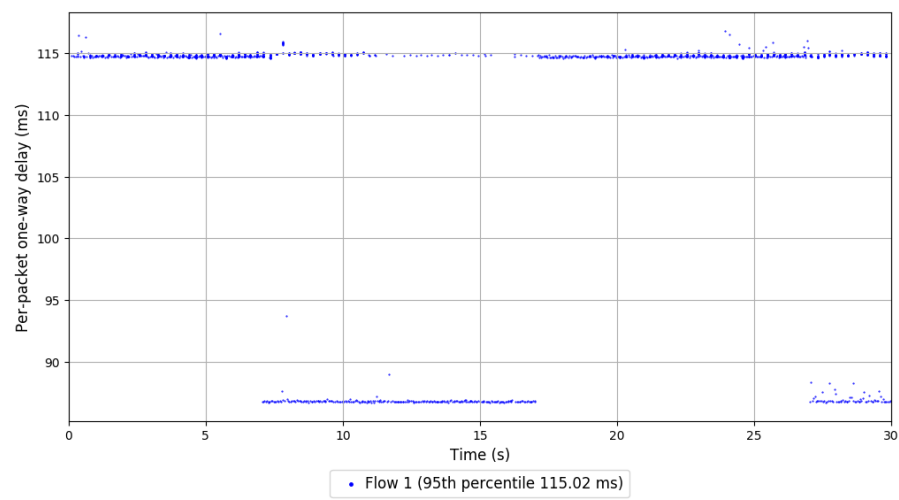
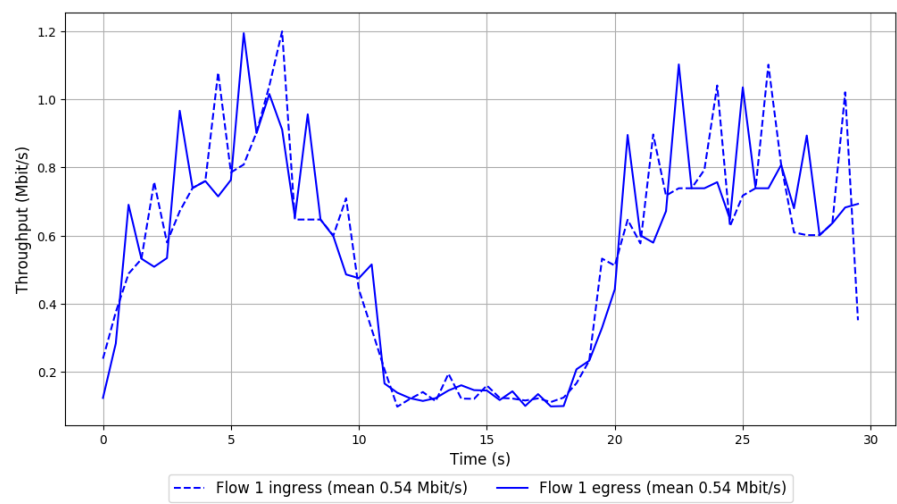
-- Flow 1:

Average throughput: 0.54 Mbit/s

95th percentile per-packet one-way delay: 115.022 ms

Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

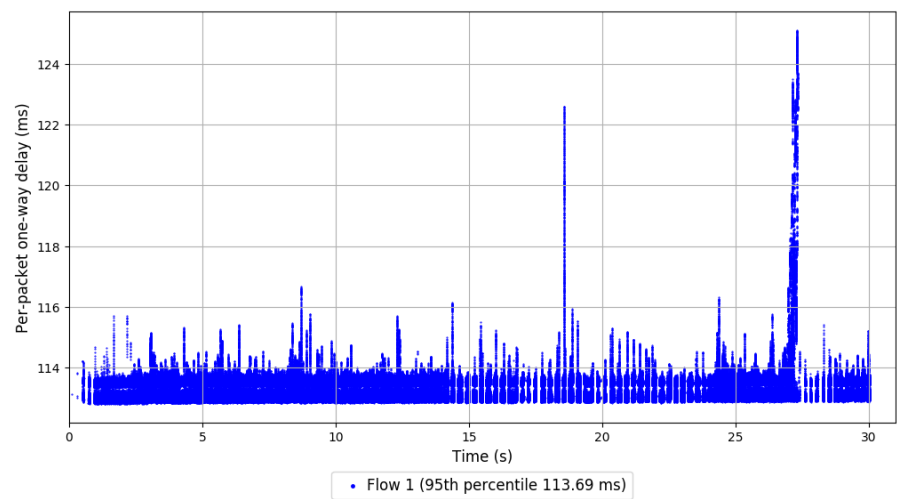
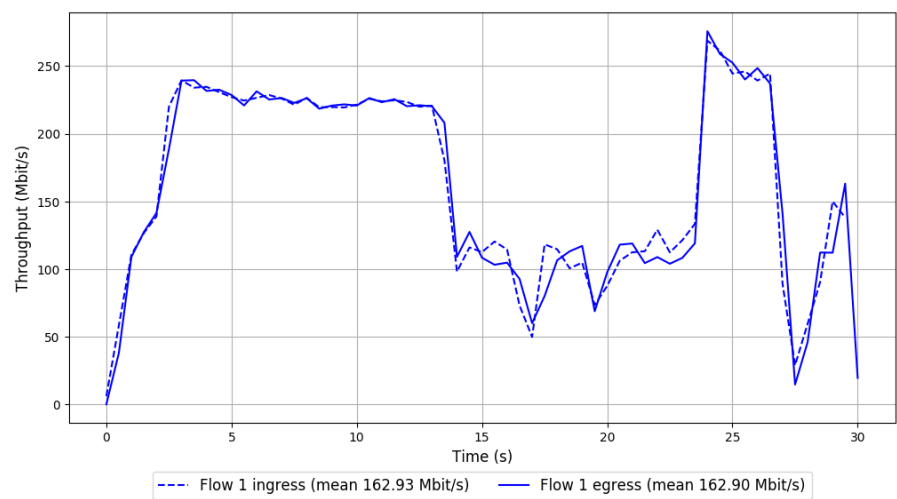


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-02-27 08:47:25
End at: 2018-02-27 08:47:55

# Below is generated by plot.py at 2018-02-27 13:18:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 162.90 Mbit/s
95th percentile per-packet one-way delay: 113.694 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 162.90 Mbit/s
95th percentile per-packet one-way delay: 113.694 ms
Loss rate: 0.04%
```


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

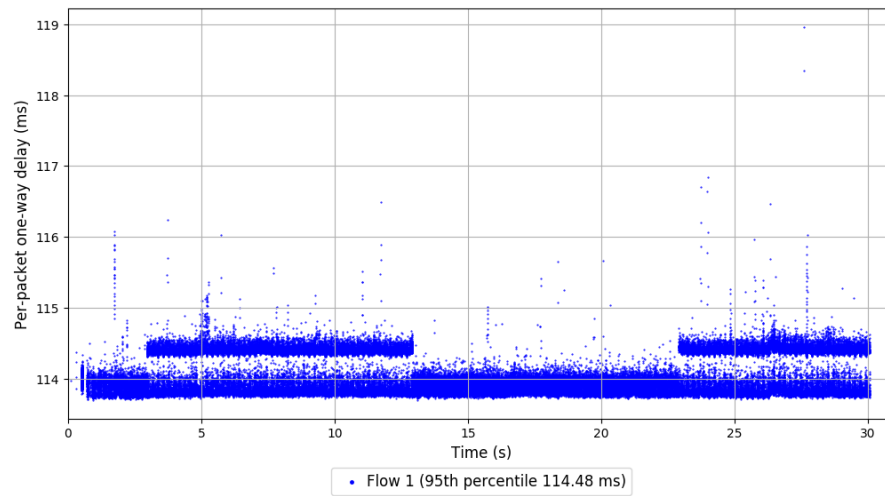
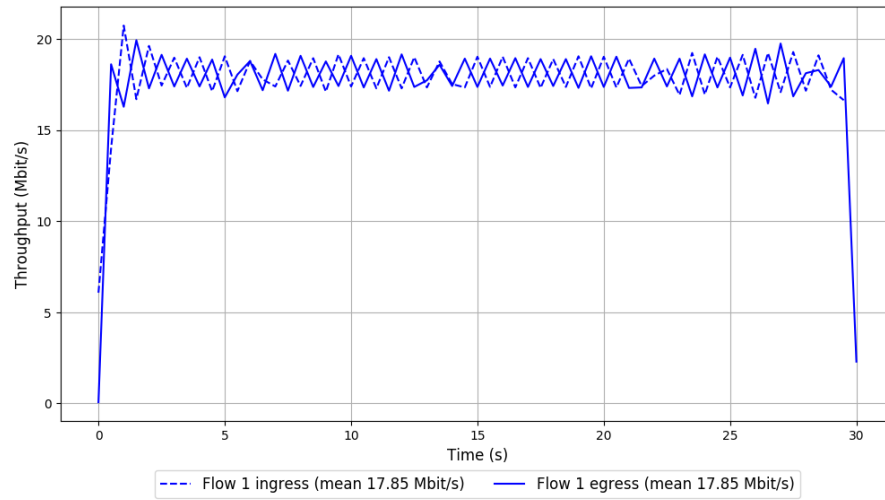


```
Run 2: Statistics of TaoVA-100x

Start at: 2018-02-27 09:02:32
End at: 2018-02-27 09:03:02

# Below is generated by plot.py at 2018-02-27 13:18:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 17.85 Mbit/s
95th percentile per-packet one-way delay: 114.482 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 17.85 Mbit/s
95th percentile per-packet one-way delay: 114.482 ms
Loss rate: 0.02%
```

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-02-27 09:17:04

End at: 2018-02-27 09:17:34

Below is generated by plot.py at 2018-02-27 13:18:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.24 Mbit/s

95th percentile per-packet one-way delay: 114.712 ms

Loss rate: 0.02%

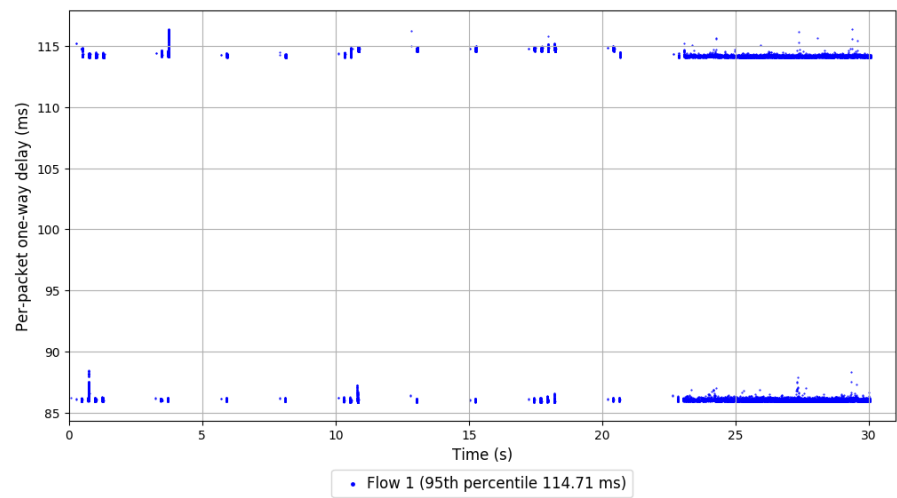
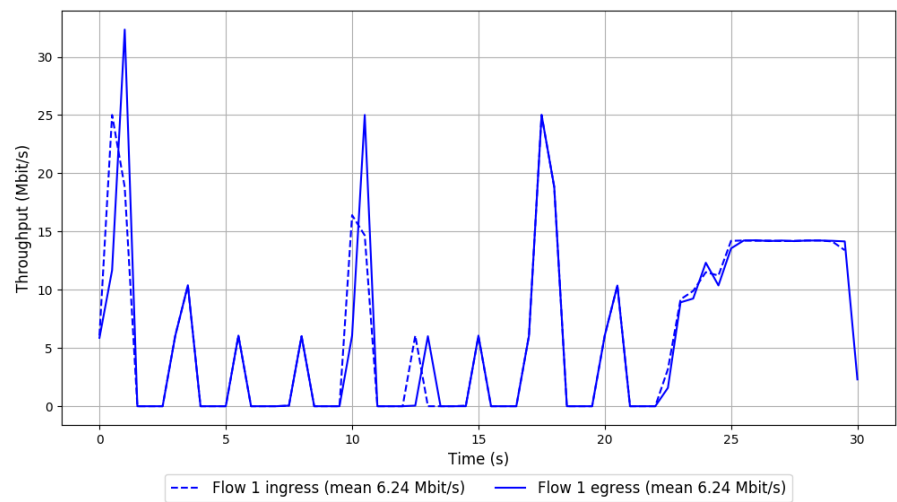
-- Flow 1:

Average throughput: 6.24 Mbit/s

95th percentile per-packet one-way delay: 114.712 ms

Loss rate: 0.02%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-02-27 09:31:40

End at: 2018-02-27 09:32:10

Below is generated by plot.py at 2018-02-27 13:18:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.38 Mbit/s

95th percentile per-packet one-way delay: 114.488 ms

Loss rate: 0.00%

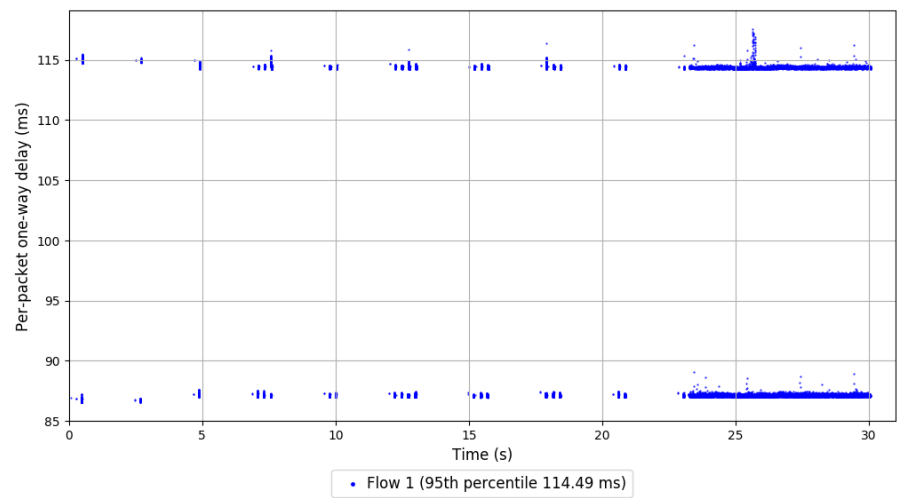
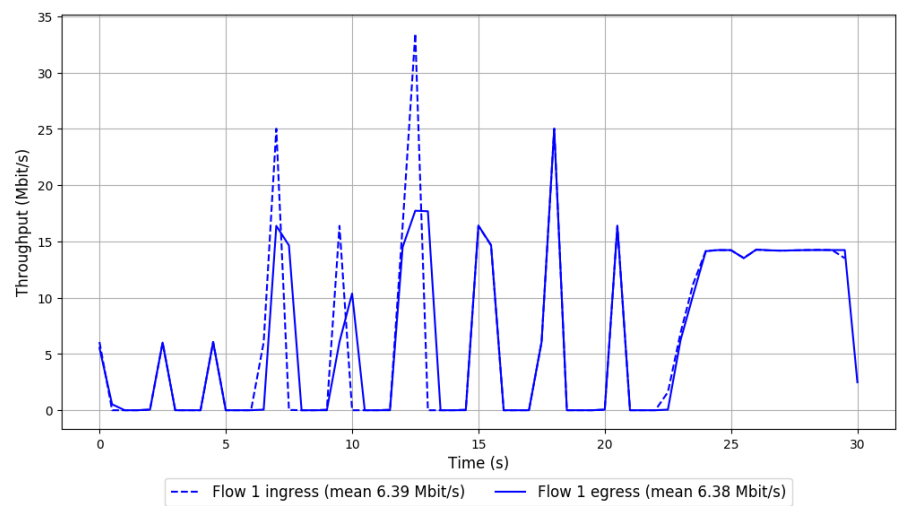
-- Flow 1:

Average throughput: 6.38 Mbit/s

95th percentile per-packet one-way delay: 114.488 ms

Loss rate: 0.00%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-02-27 09:46:23

End at: 2018-02-27 09:46:53

Below is generated by plot.py at 2018-02-27 13:18:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 145.44 Mbit/s

95th percentile per-packet one-way delay: 115.023 ms

Loss rate: 0.02%

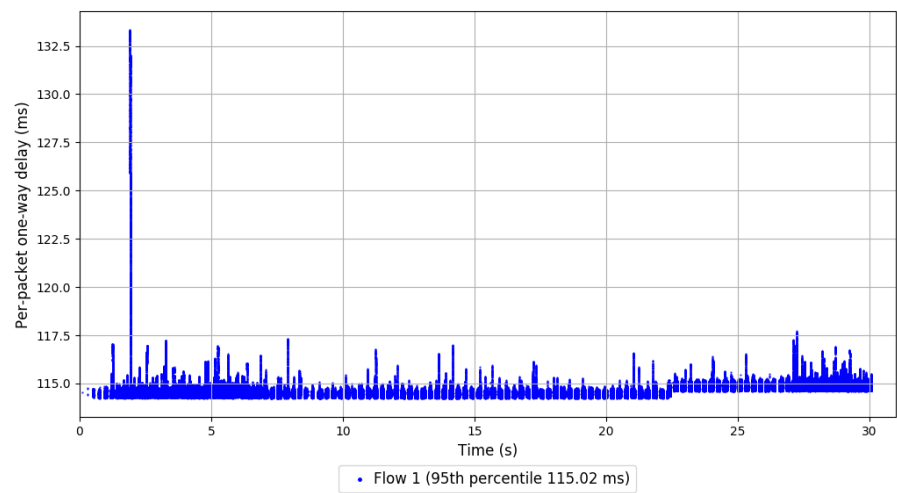
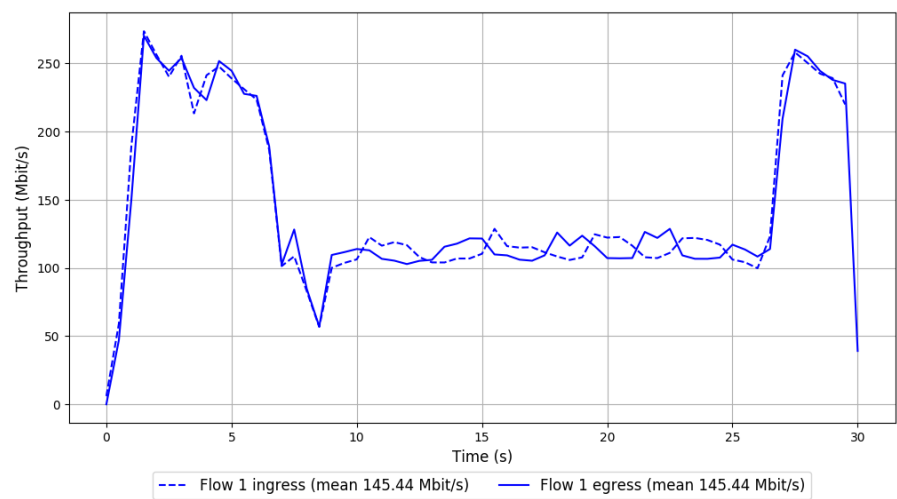
-- Flow 1:

Average throughput: 145.44 Mbit/s

95th percentile per-packet one-way delay: 115.023 ms

Loss rate: 0.02%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-02-27 10:01:08

End at: 2018-02-27 10:01:38

Below is generated by plot.py at 2018-02-27 13:18:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 119.85 Mbit/s

95th percentile per-packet one-way delay: 115.048 ms

Loss rate: 0.00%

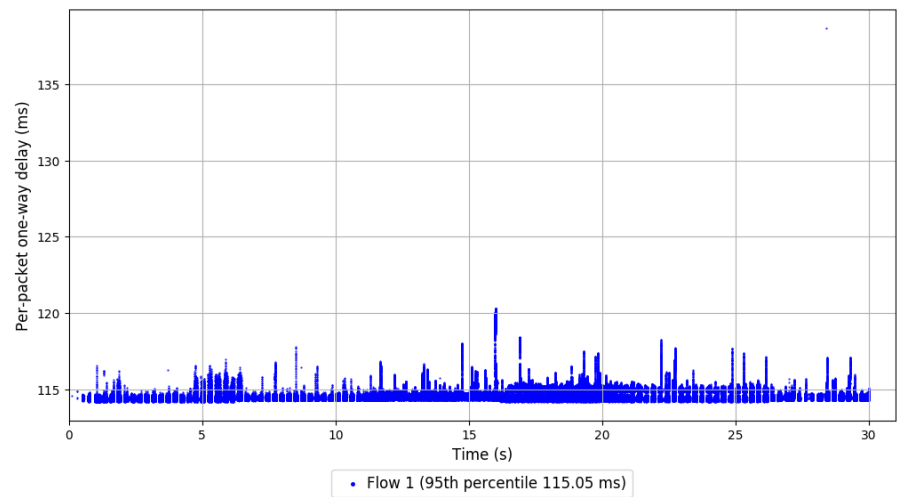
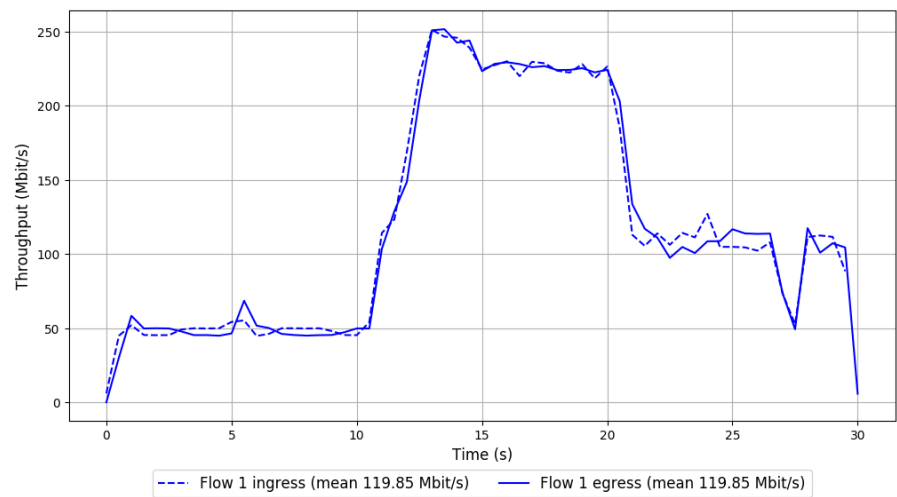
-- Flow 1:

Average throughput: 119.85 Mbit/s

95th percentile per-packet one-way delay: 115.048 ms

Loss rate: 0.00%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-02-27 10:15:51

End at: 2018-02-27 10:16:21

Below is generated by plot.py at 2018-02-27 13:18:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.66 Mbit/s

95th percentile per-packet one-way delay: 114.948 ms

Loss rate: 0.00%

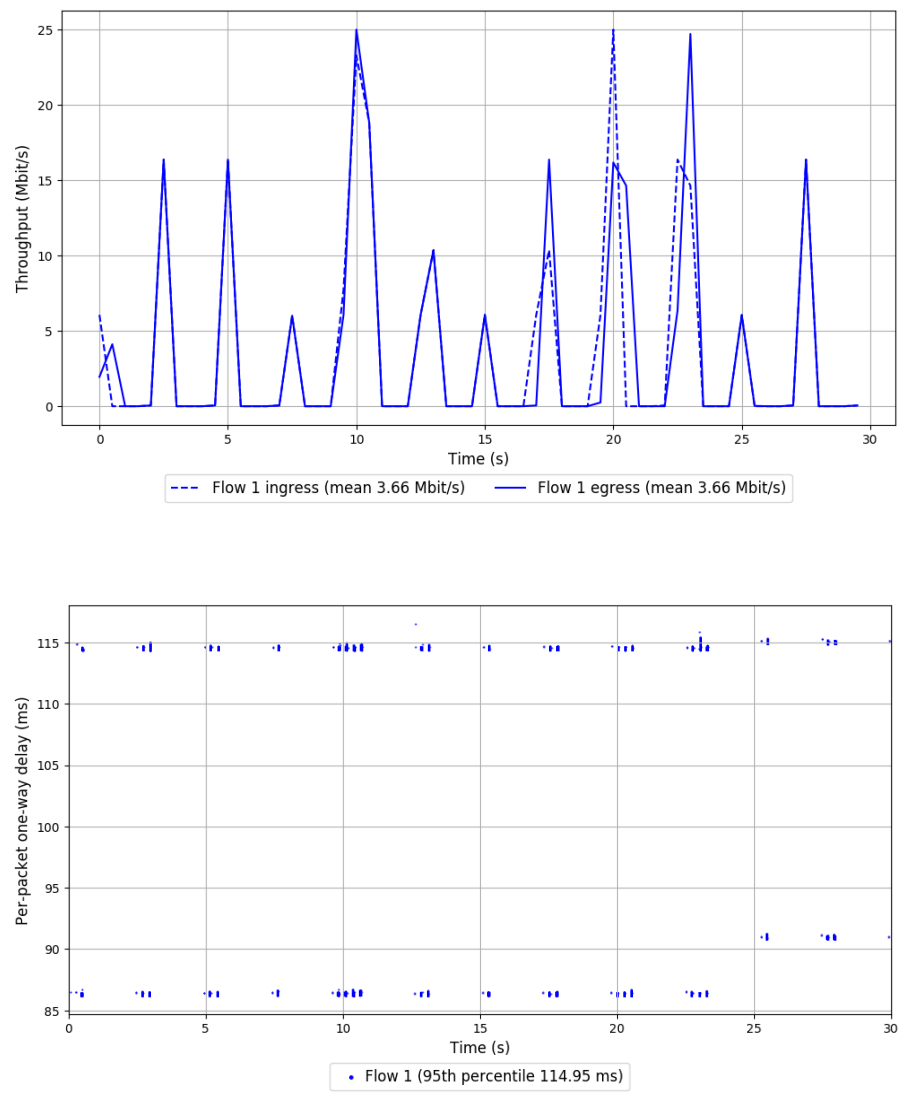
-- Flow 1:

Average throughput: 3.66 Mbit/s

95th percentile per-packet one-way delay: 114.948 ms

Loss rate: 0.00%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-02-27 10:30:48

End at: 2018-02-27 10:31:19

Below is generated by plot.py at 2018-02-27 13:20:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 169.16 Mbit/s

95th percentile per-packet one-way delay: 115.221 ms

Loss rate: 0.00%

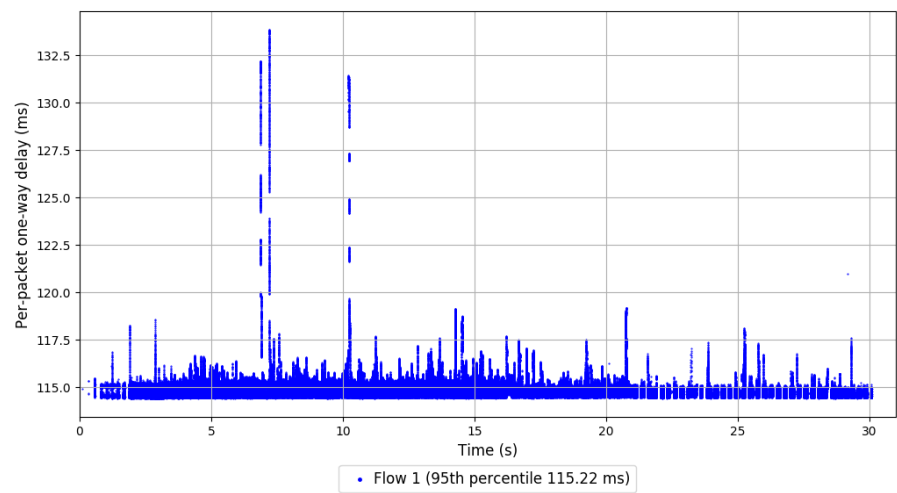
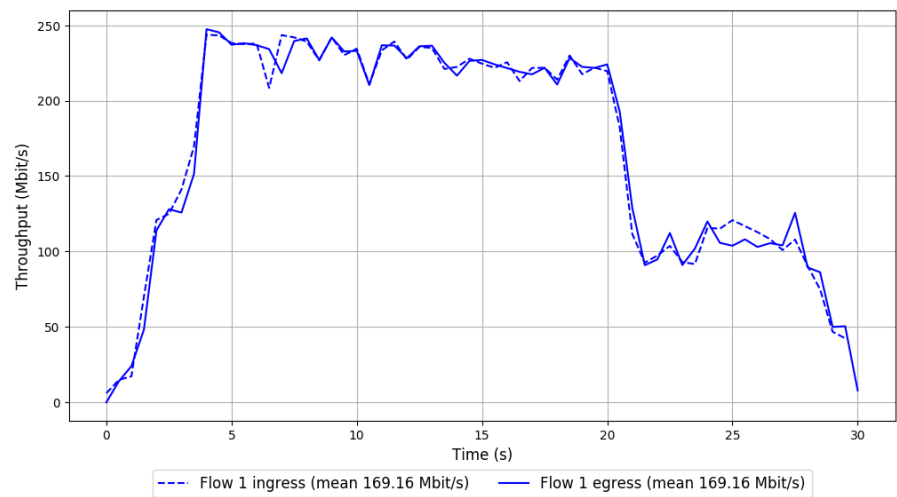
-- Flow 1:

Average throughput: 169.16 Mbit/s

95th percentile per-packet one-way delay: 115.221 ms

Loss rate: 0.00%

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

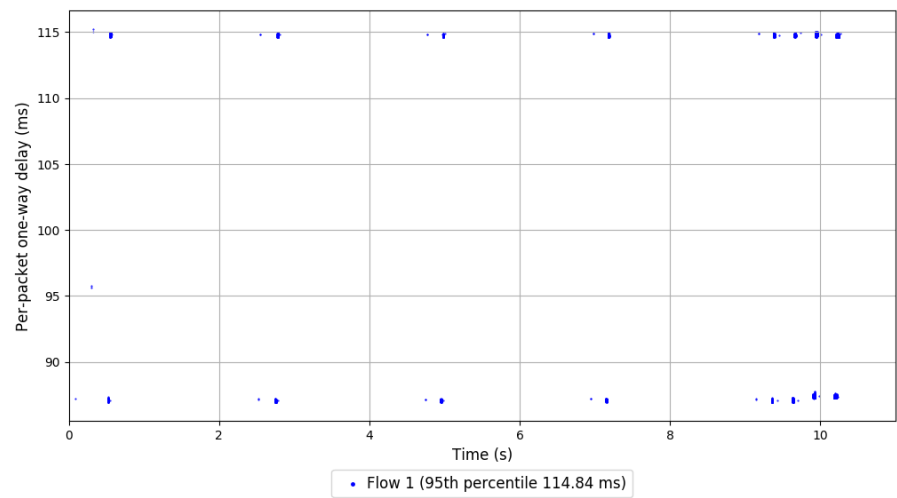
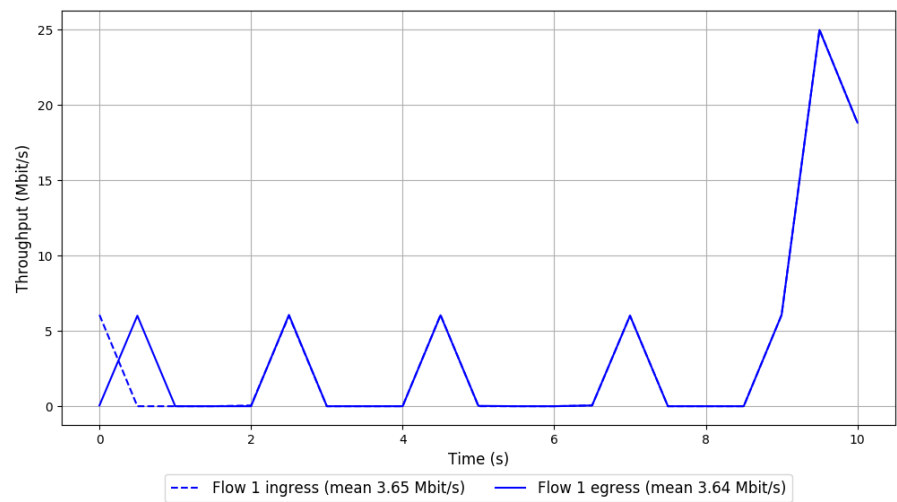


Run 9: Statistics of TaoVA-100x

Start at: 2018-02-27 10:45:55

End at: 2018-02-27 10:46:25

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

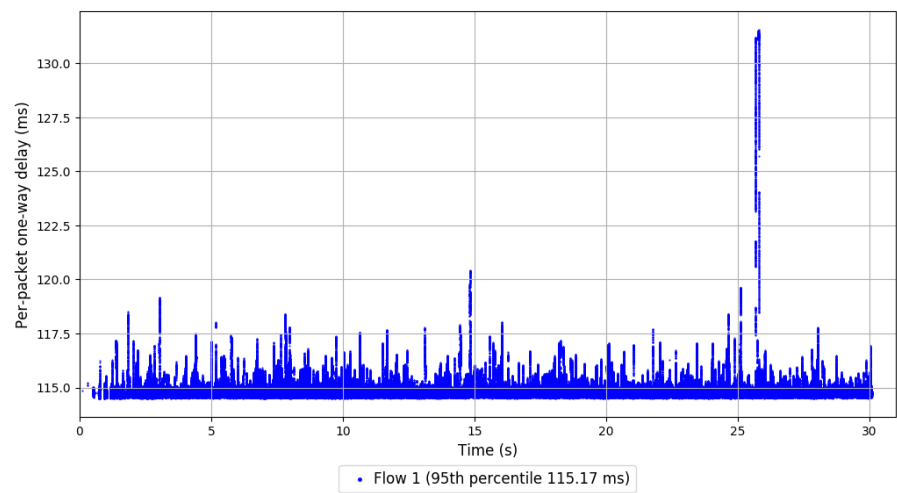
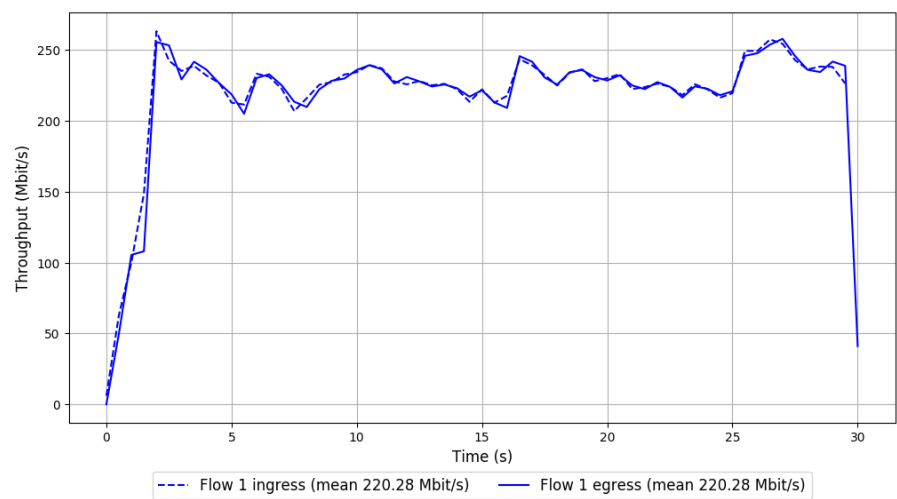


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-02-27 11:00:30
End at: 2018-02-27 11:01:00

# Below is generated by plot.py at 2018-02-27 13:22:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 220.28 Mbit/s
95th percentile per-packet one-way delay: 115.175 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 220.28 Mbit/s
95th percentile per-packet one-way delay: 115.175 ms
Loss rate: 0.00%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2018-02-27 08:45:00

End at: 2018-02-27 08:45:31

Below is generated by plot.py at 2018-02-27 13:22:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 28.11 Mbit/s

95th percentile per-packet one-way delay: 117.798 ms

Loss rate: 0.00%

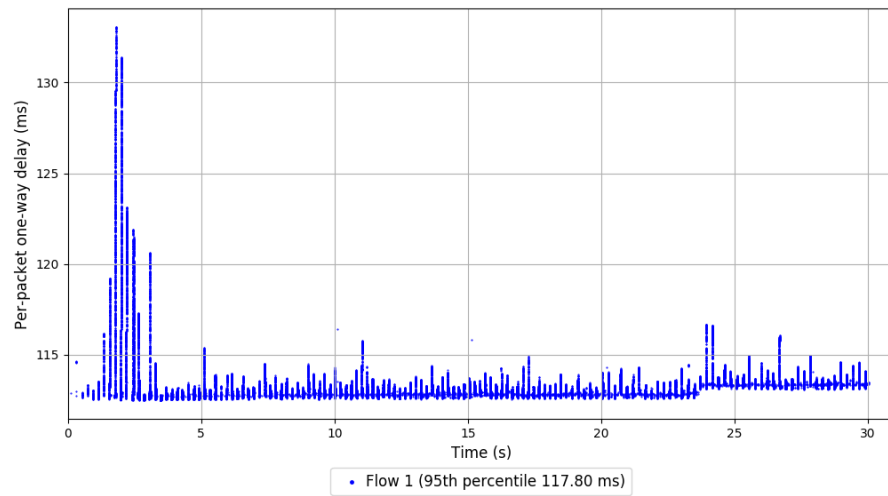
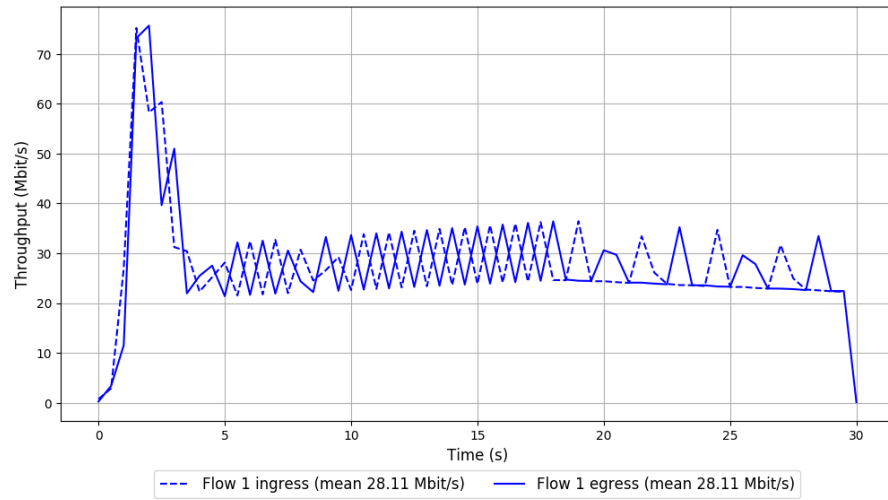
-- Flow 1:

Average throughput: 28.11 Mbit/s

95th percentile per-packet one-way delay: 117.798 ms

Loss rate: 0.00%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-02-27 09:00:06

End at: 2018-02-27 09:00:36

Below is generated by plot.py at 2018-02-27 13:22:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 57.30 Mbit/s

95th percentile per-packet one-way delay: 122.416 ms

Loss rate: 0.00%

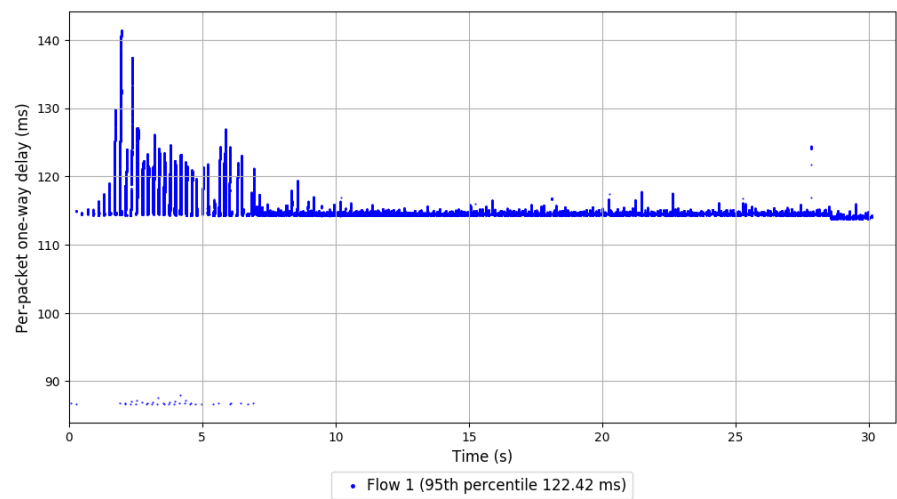
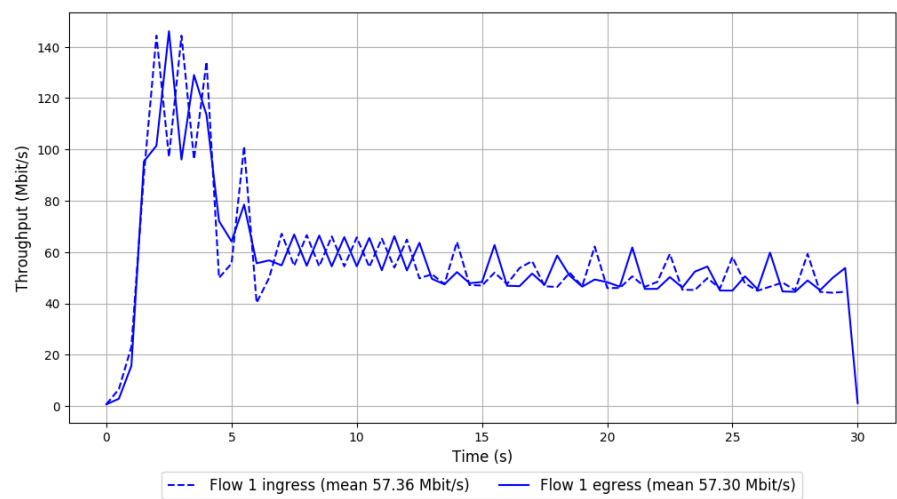
-- Flow 1:

Average throughput: 57.30 Mbit/s

95th percentile per-packet one-way delay: 122.416 ms

Loss rate: 0.00%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-02-27 09:14:45

End at: 2018-02-27 09:15:15

Below is generated by plot.py at 2018-02-27 13:22:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 34.41 Mbit/s

95th percentile per-packet one-way delay: 115.964 ms

Loss rate: 0.00%

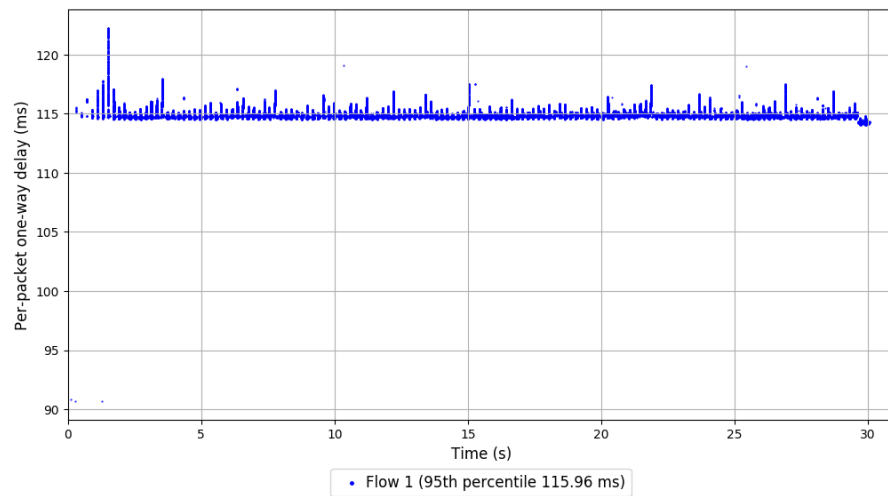
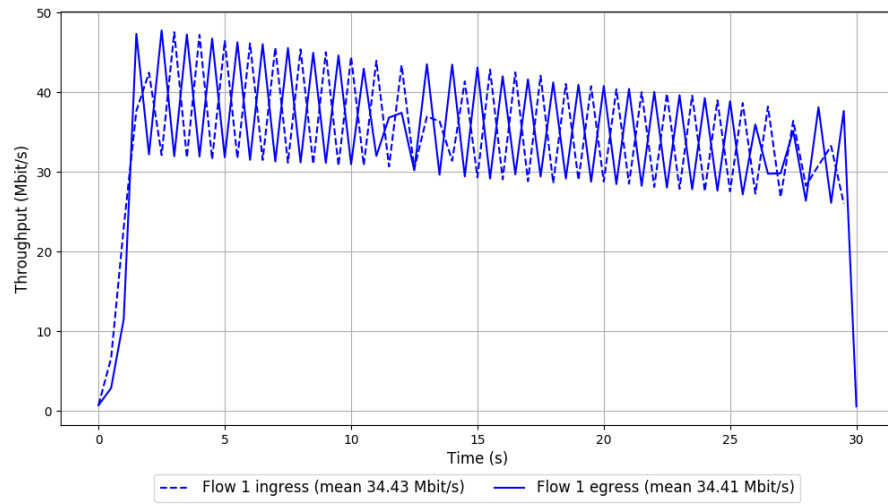
-- Flow 1:

Average throughput: 34.41 Mbit/s

95th percentile per-packet one-way delay: 115.964 ms

Loss rate: 0.00%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

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

End at: 2018-02-27 09:29:48

Below is generated by plot.py at 2018-02-27 13:22:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 15.23 Mbit/s

95th percentile per-packet one-way delay: 115.850 ms

Loss rate: 0.00%

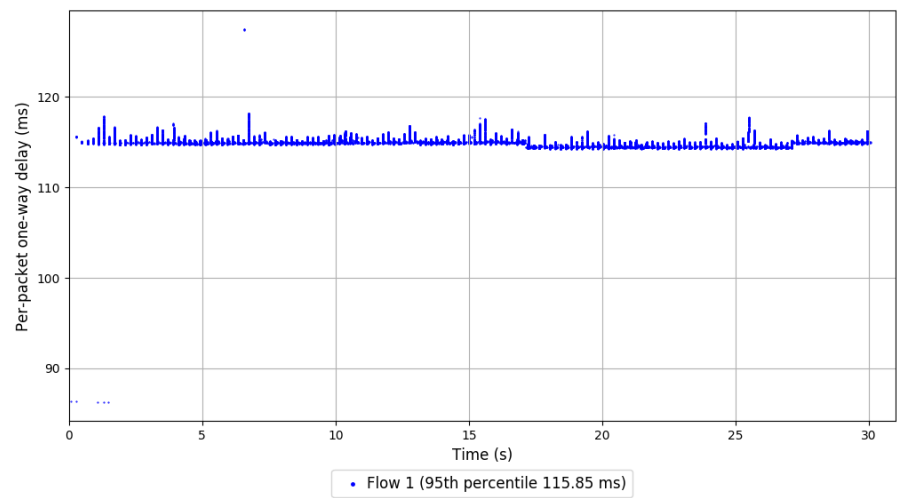
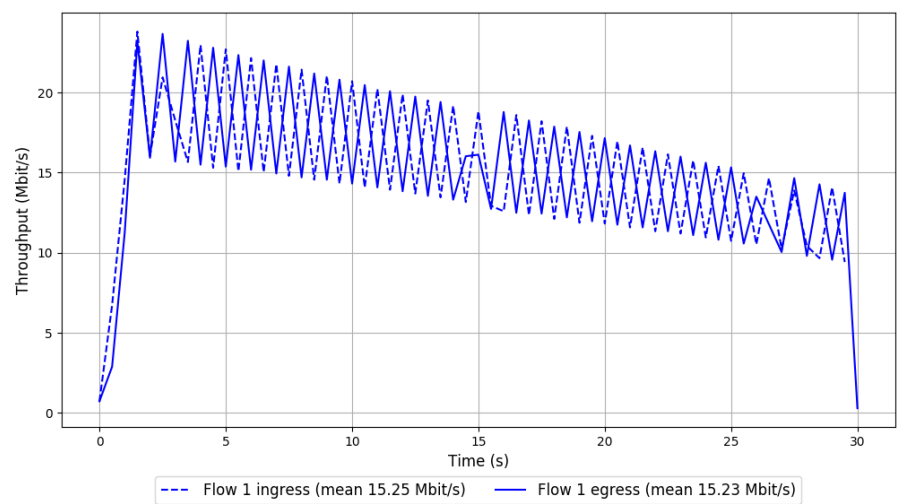
-- Flow 1:

Average throughput: 15.23 Mbit/s

95th percentile per-packet one-way delay: 115.850 ms

Loss rate: 0.00%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-02-27 09:43:51

End at: 2018-02-27 09:44:22

Below is generated by plot.py at 2018-02-27 13:22:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 62.06 Mbit/s

95th percentile per-packet one-way delay: 116.957 ms

Loss rate: 0.00%

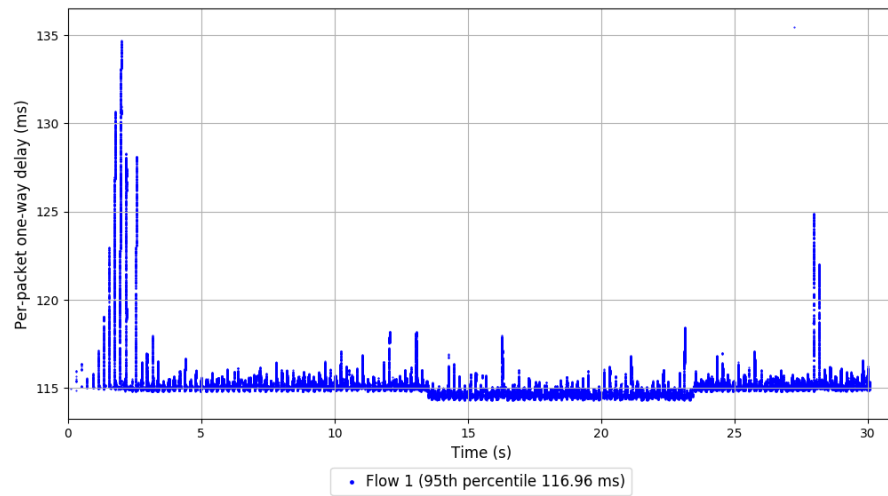
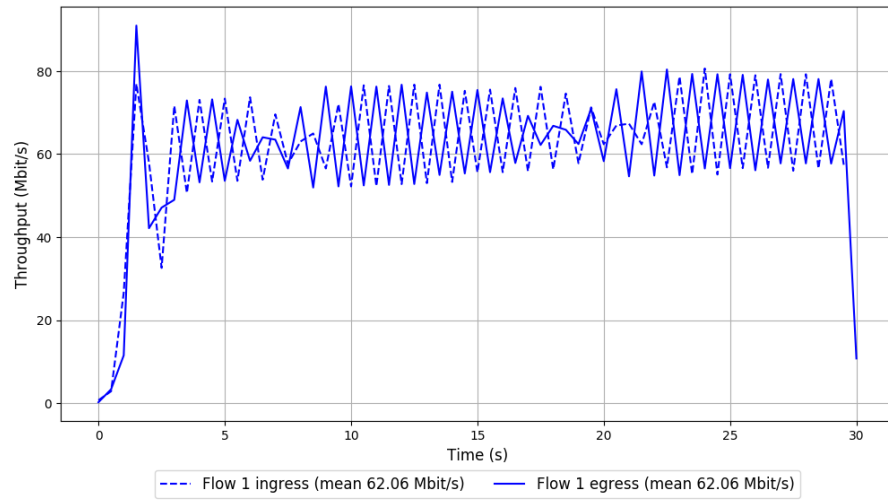
-- Flow 1:

Average throughput: 62.06 Mbit/s

95th percentile per-packet one-way delay: 116.957 ms

Loss rate: 0.00%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-02-27 09:58:48

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

Below is generated by plot.py at 2018-02-27 13:22:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.30 Mbit/s

95th percentile per-packet one-way delay: 115.200 ms

Loss rate: 0.00%

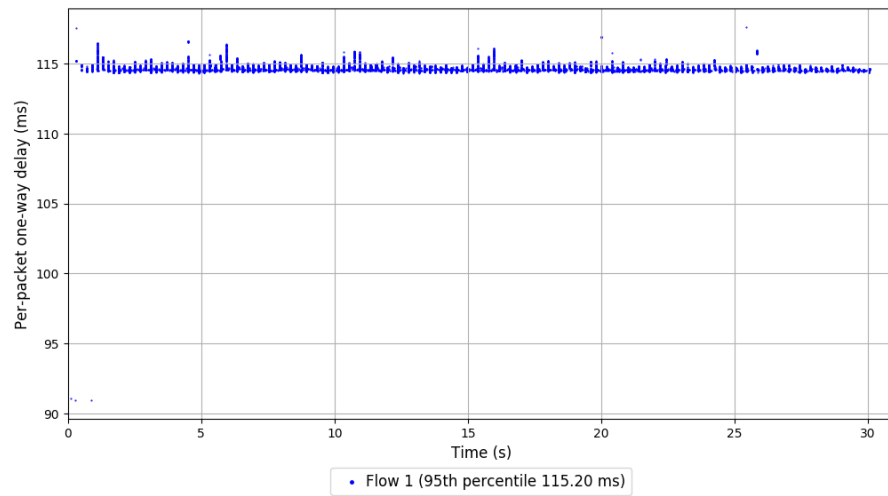
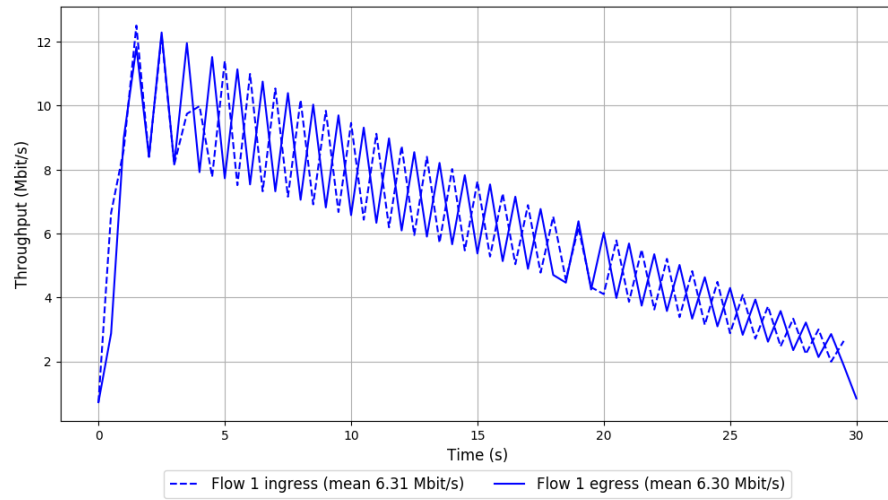
-- Flow 1:

Average throughput: 6.30 Mbit/s

95th percentile per-packet one-way delay: 115.200 ms

Loss rate: 0.00%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-02-27 10:13:28

End at: 2018-02-27 10:13:58

Below is generated by plot.py at 2018-02-27 13:22:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 107.15 Mbit/s

95th percentile per-packet one-way delay: 125.249 ms

Loss rate: 0.00%

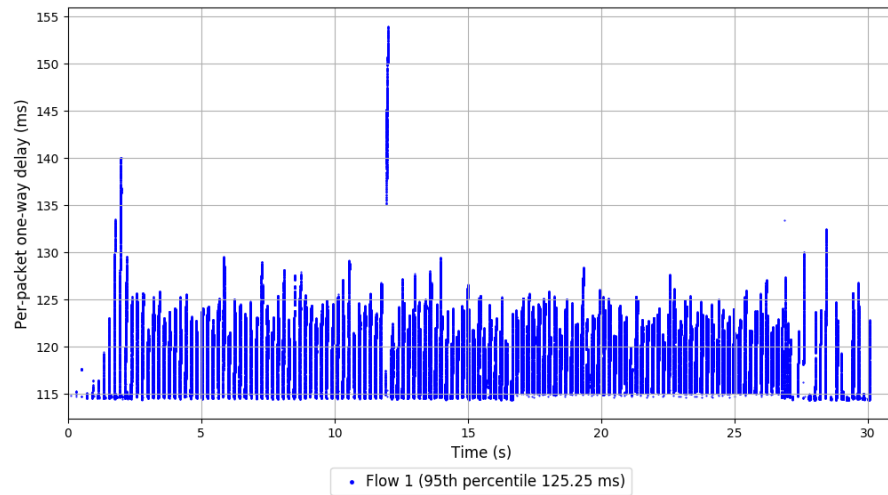
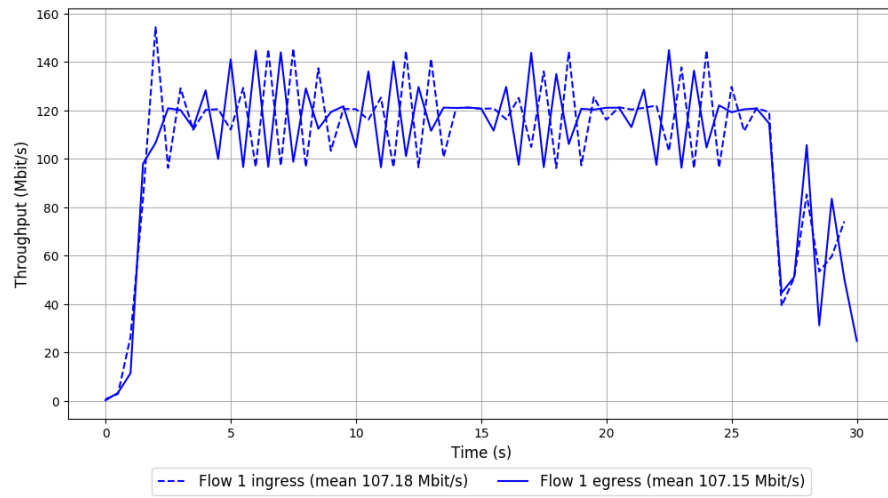
-- Flow 1:

Average throughput: 107.15 Mbit/s

95th percentile per-packet one-way delay: 125.249 ms

Loss rate: 0.00%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-02-27 10:28:23

End at: 2018-02-27 10:28:53

Below is generated by plot.py at 2018-02-27 13:22:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 49.24 Mbit/s

95th percentile per-packet one-way delay: 116.890 ms

Loss rate: 0.00%

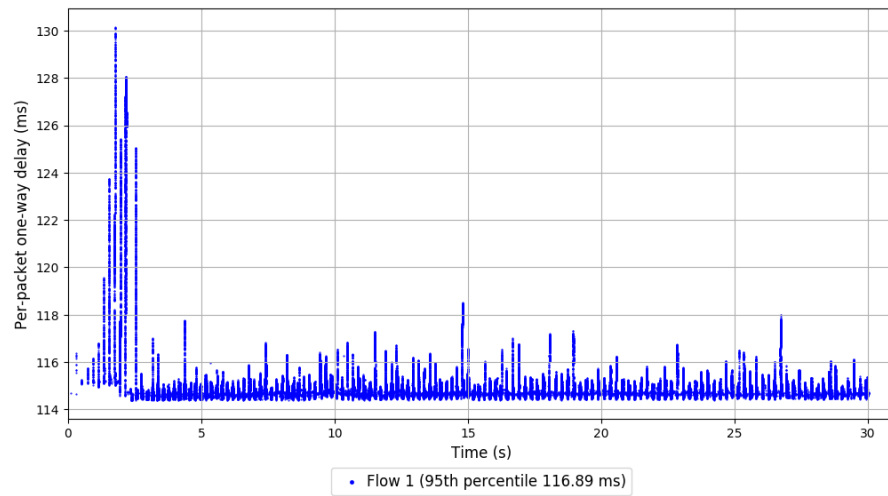
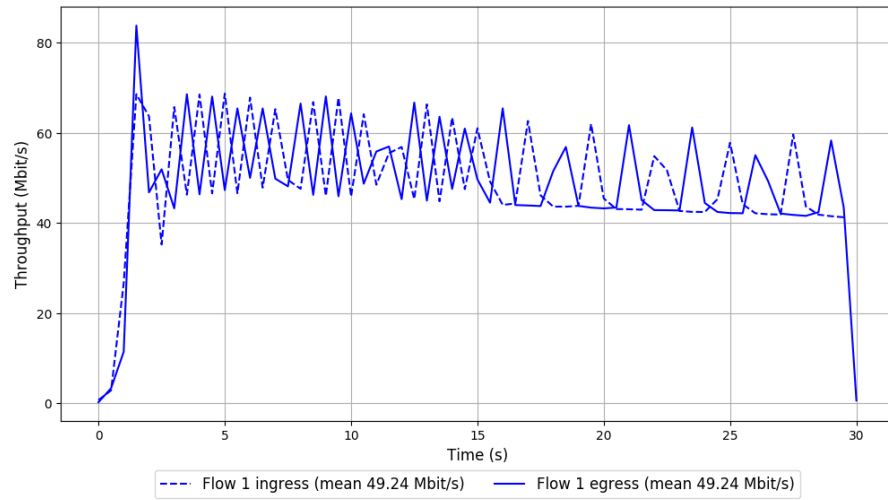
-- Flow 1:

Average throughput: 49.24 Mbit/s

95th percentile per-packet one-way delay: 116.890 ms

Loss rate: 0.00%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-02-27 10:43:29

End at: 2018-02-27 10:43:59

Below is generated by plot.py at 2018-02-27 13:22:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 110.15 Mbit/s

95th percentile per-packet one-way delay: 125.111 ms

Loss rate: 0.00%

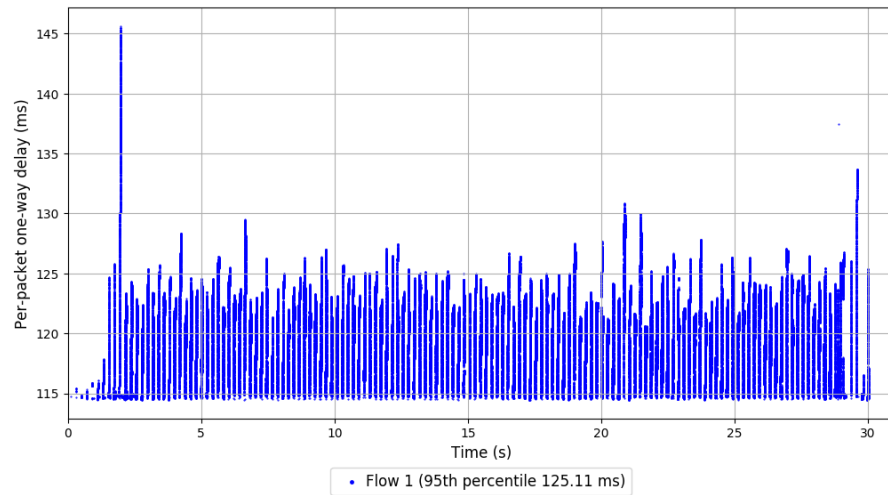
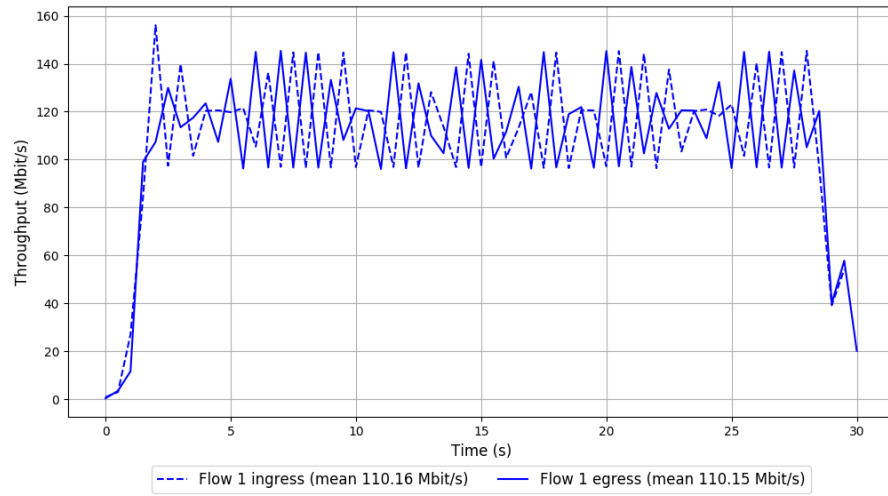
-- Flow 1:

Average throughput: 110.15 Mbit/s

95th percentile per-packet one-way delay: 125.111 ms

Loss rate: 0.00%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-02-27 10:58:08

End at: 2018-02-27 10:58:38

Below is generated by plot.py at 2018-02-27 13:22:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 112.25 Mbit/s

95th percentile per-packet one-way delay: 125.597 ms

Loss rate: 0.07%

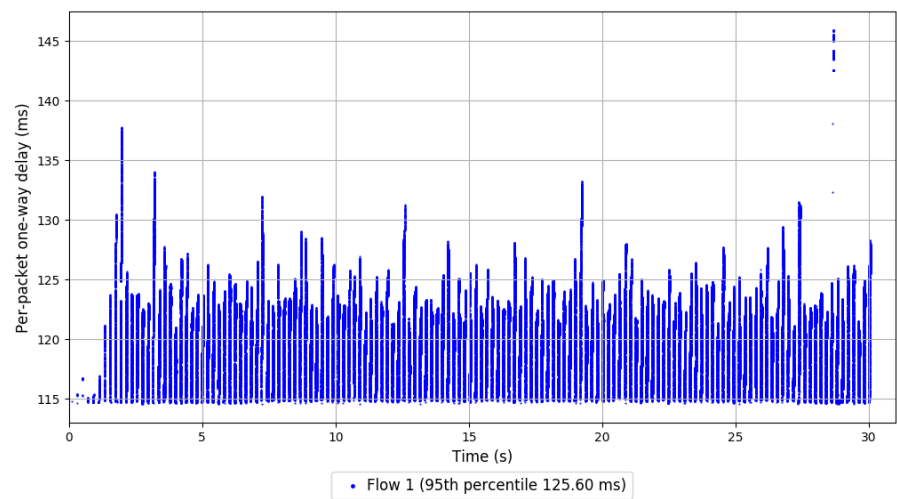
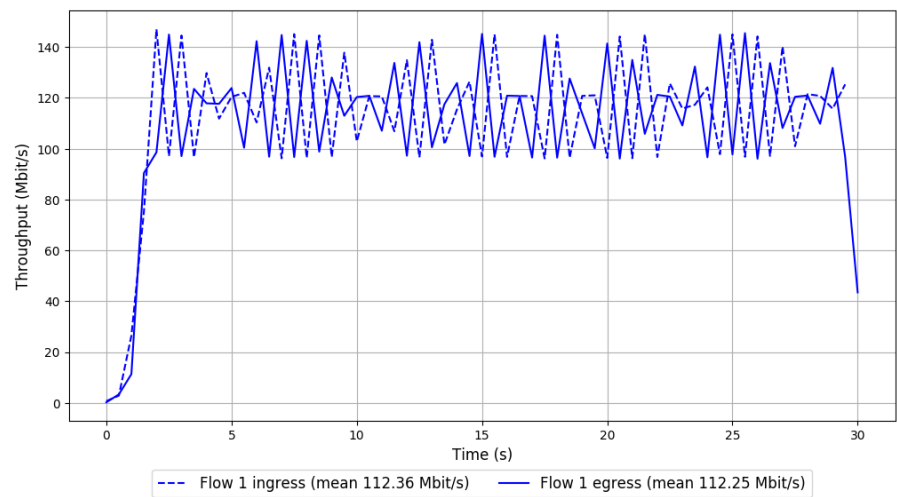
-- Flow 1:

Average throughput: 112.25 Mbit/s

95th percentile per-packet one-way delay: 125.597 ms

Loss rate: 0.07%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-02-27 08:49:14

End at: 2018-02-27 08:49:44

Below is generated by plot.py at 2018-02-27 13:22:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 161.47 Mbit/s

95th percentile per-packet one-way delay: 137.617 ms

Loss rate: 1.06%

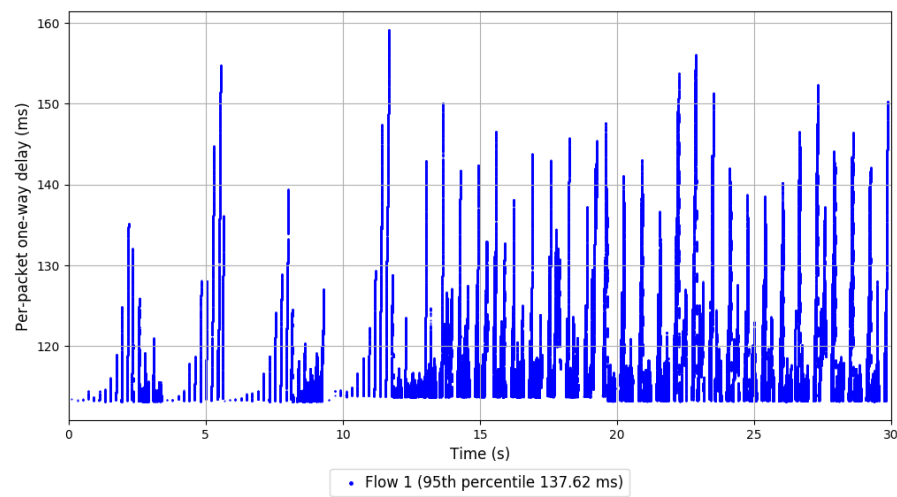
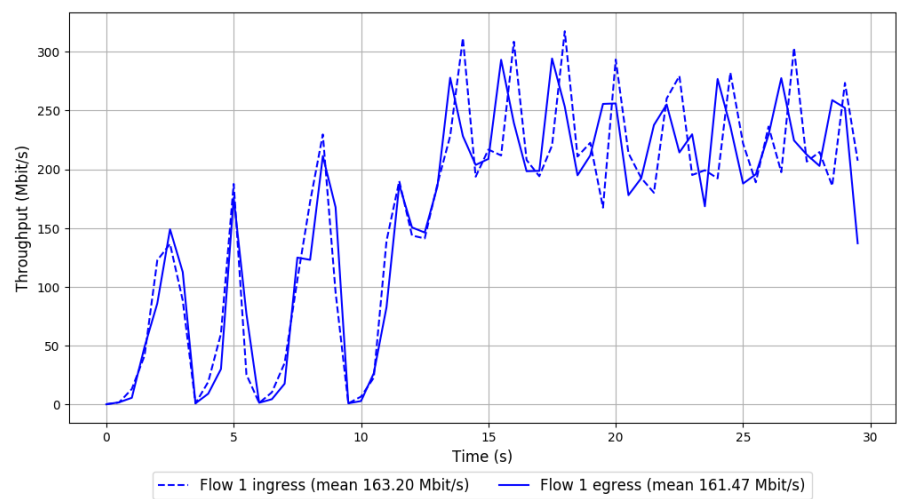
-- Flow 1:

Average throughput: 161.47 Mbit/s

95th percentile per-packet one-way delay: 137.617 ms

Loss rate: 1.06%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-02-27 09:04:07

End at: 2018-02-27 09:04:37

Below is generated by plot.py at 2018-02-27 13:23:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 194.57 Mbit/s

95th percentile per-packet one-way delay: 196.051 ms

Loss rate: 0.73%

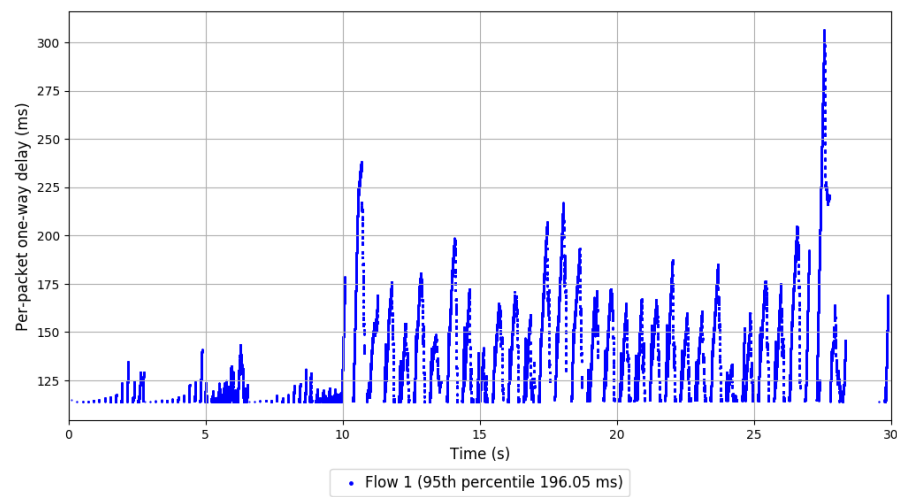
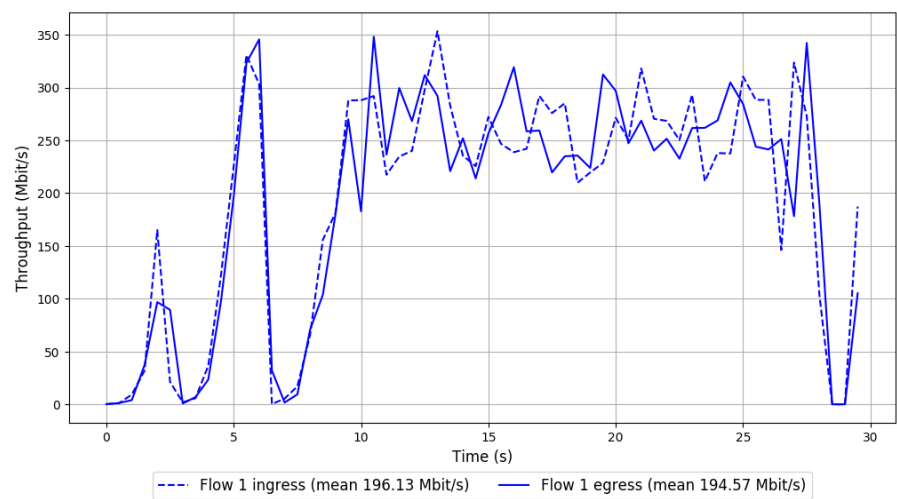
-- Flow 1:

Average throughput: 194.57 Mbit/s

95th percentile per-packet one-way delay: 196.051 ms

Loss rate: 0.73%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-02-27 09:18:37

End at: 2018-02-27 09:19:07

Below is generated by plot.py at 2018-02-27 13:25:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 248.76 Mbit/s

95th percentile per-packet one-way delay: 272.213 ms

Loss rate: 0.68%

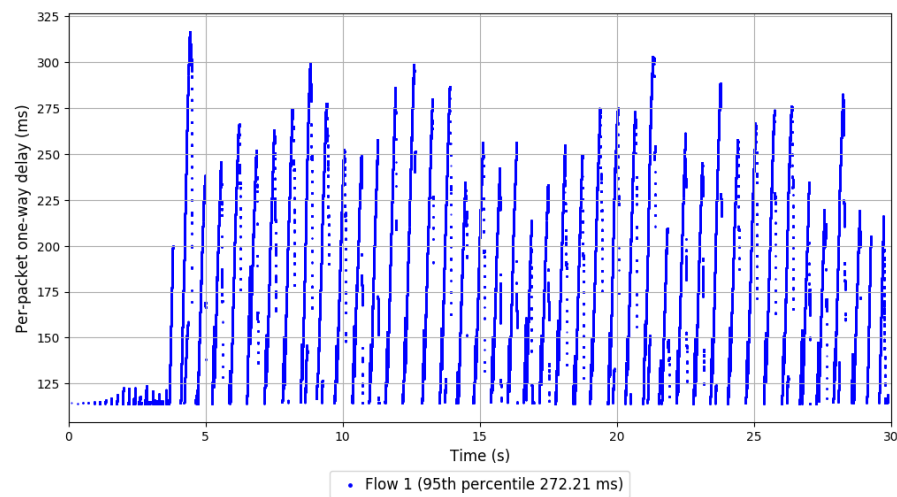
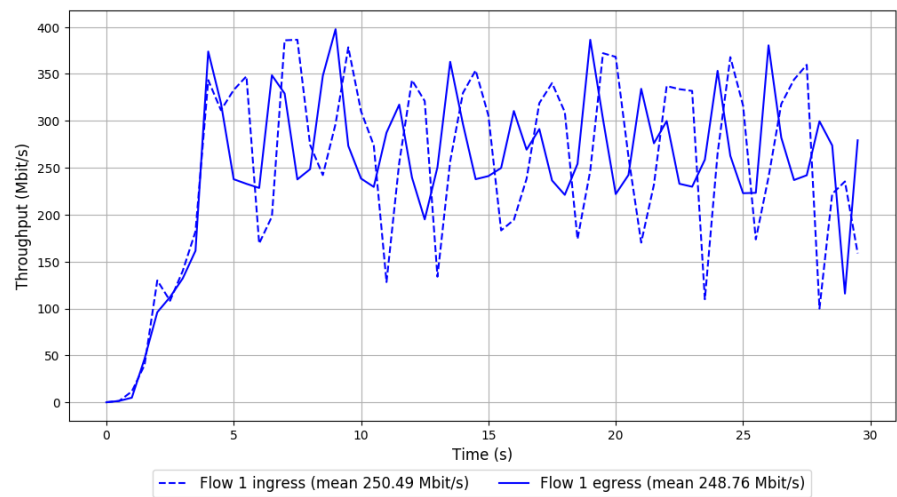
-- Flow 1:

Average throughput: 248.76 Mbit/s

95th percentile per-packet one-way delay: 272.213 ms

Loss rate: 0.68%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-02-27 09:33:11

End at: 2018-02-27 09:33:41

Below is generated by plot.py at 2018-02-27 13:27:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 270.89 Mbit/s

95th percentile per-packet one-way delay: 325.723 ms

Loss rate: 5.32%

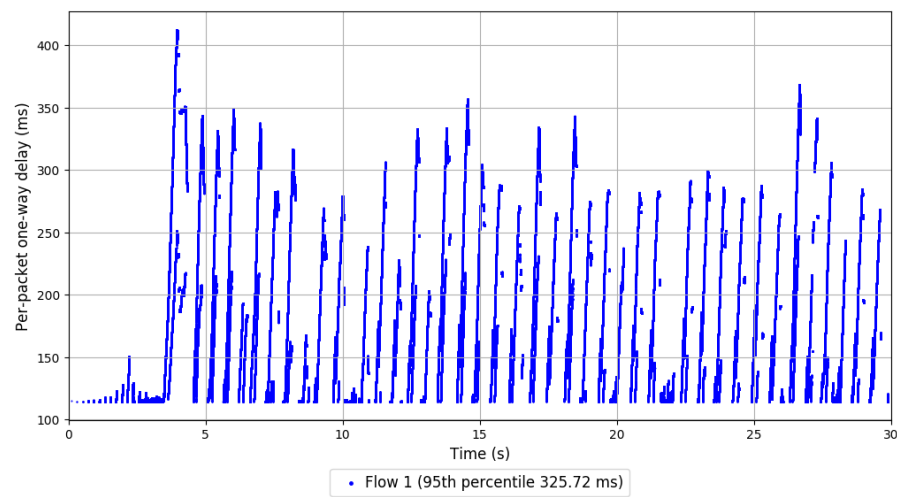
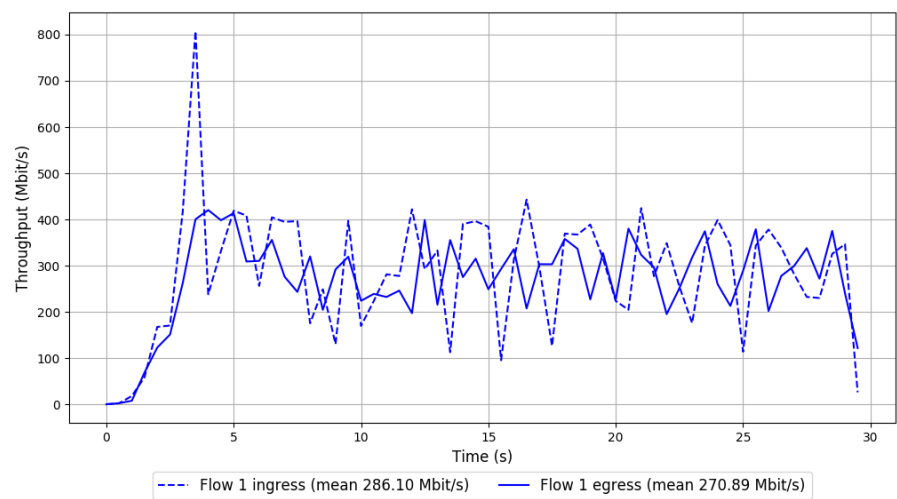
-- Flow 1:

Average throughput: 270.89 Mbit/s

95th percentile per-packet one-way delay: 325.723 ms

Loss rate: 5.32%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-02-27 09:48:09

End at: 2018-02-27 09:48:39

Below is generated by plot.py at 2018-02-27 13:27:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 183.69 Mbit/s

95th percentile per-packet one-way delay: 162.558 ms

Loss rate: 0.00%

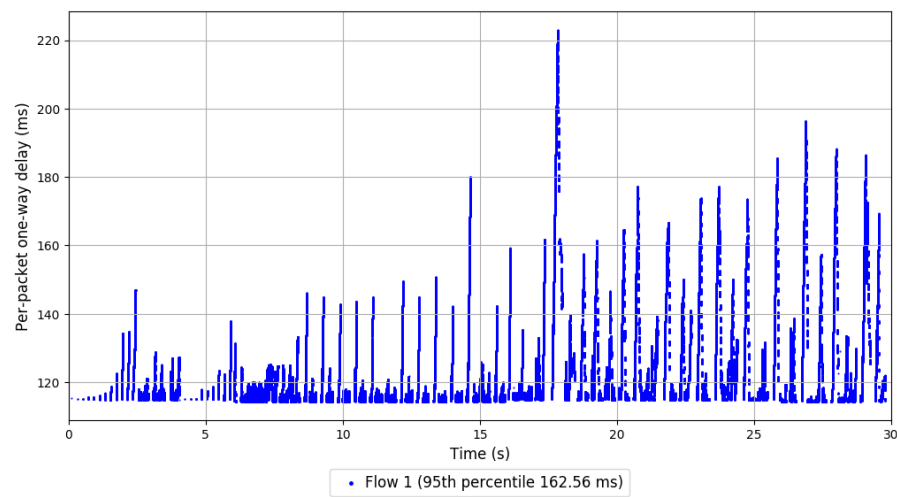
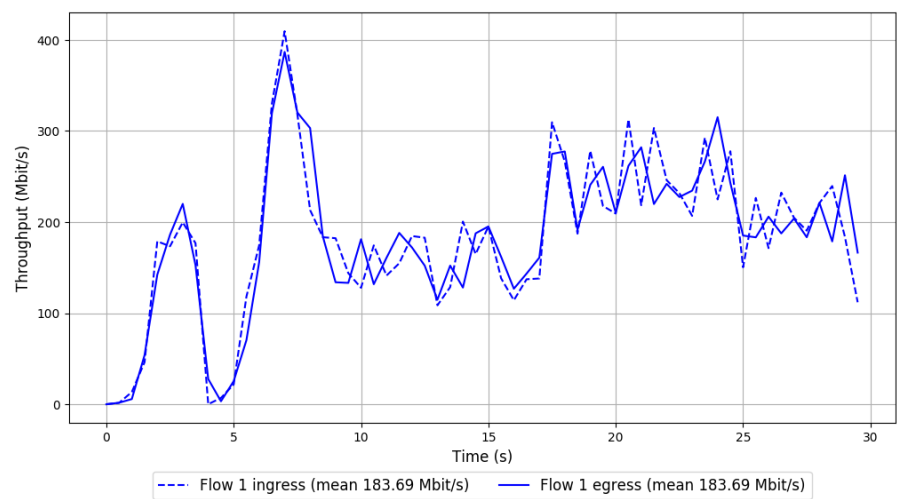
-- Flow 1:

Average throughput: 183.69 Mbit/s

95th percentile per-packet one-way delay: 162.558 ms

Loss rate: 0.00%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-02-27 10:02:53

End at: 2018-02-27 10:03:23

Below is generated by plot.py at 2018-02-27 13:27:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 138.22 Mbit/s

95th percentile per-packet one-way delay: 158.767 ms

Loss rate: 0.00%

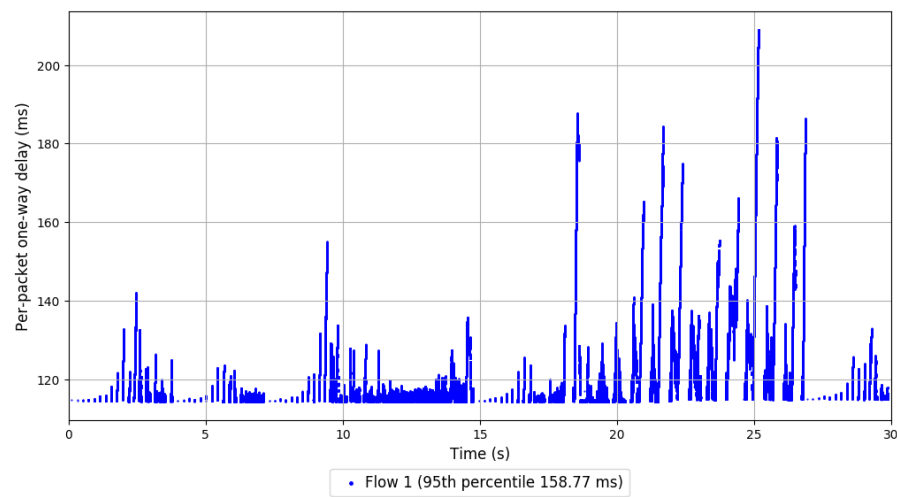
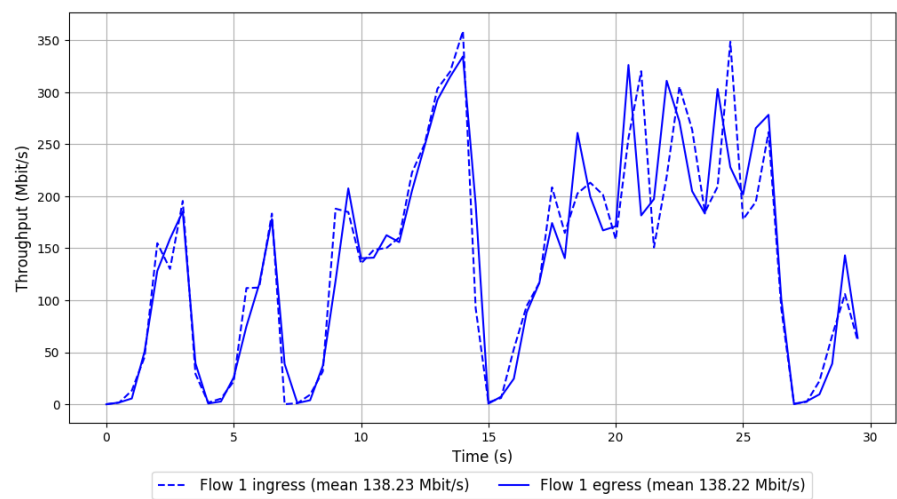
-- Flow 1:

Average throughput: 138.22 Mbit/s

95th percentile per-packet one-way delay: 158.767 ms

Loss rate: 0.00%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-02-27 10:17:23

End at: 2018-02-27 10:17:53

Below is generated by plot.py at 2018-02-27 13:27:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 198.22 Mbit/s

95th percentile per-packet one-way delay: 236.218 ms

Loss rate: 0.03%

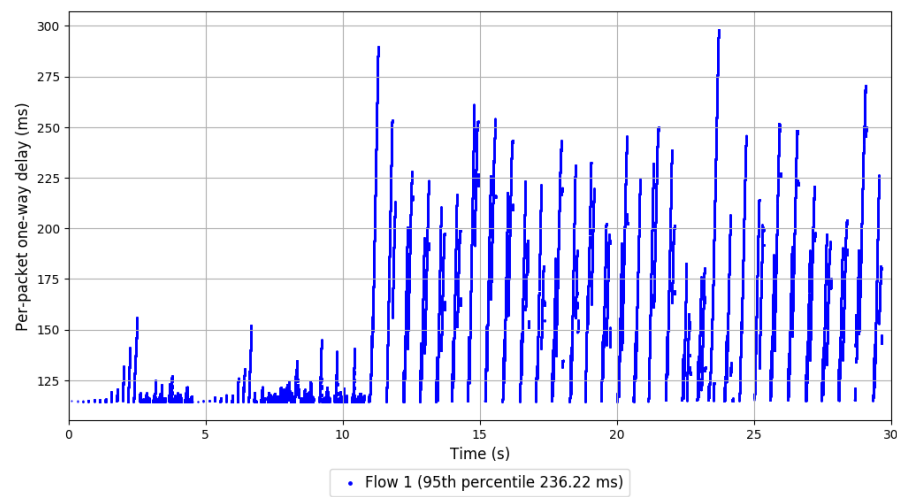
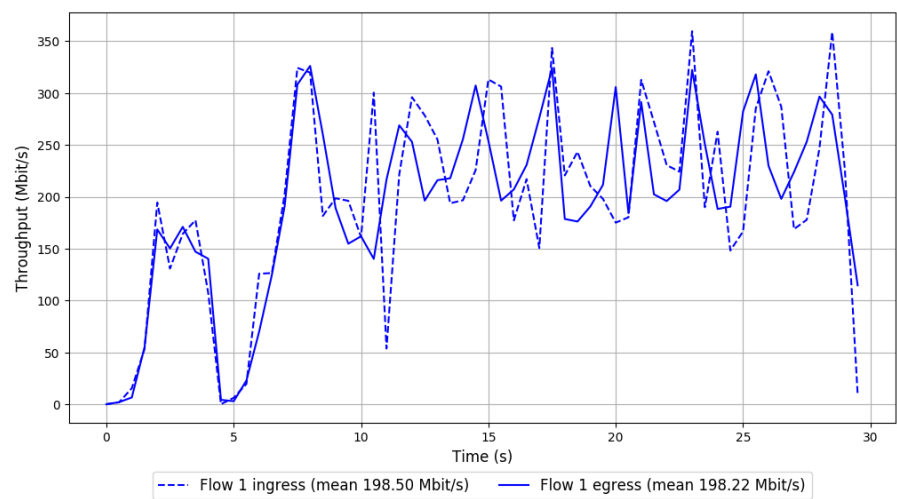
-- Flow 1:

Average throughput: 198.22 Mbit/s

95th percentile per-packet one-way delay: 236.218 ms

Loss rate: 0.03%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-02-27 10:32:37

End at: 2018-02-27 10:33:07

Below is generated by plot.py at 2018-02-27 13:27:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 161.34 Mbit/s

95th percentile per-packet one-way delay: 316.631 ms

Loss rate: 1.97%

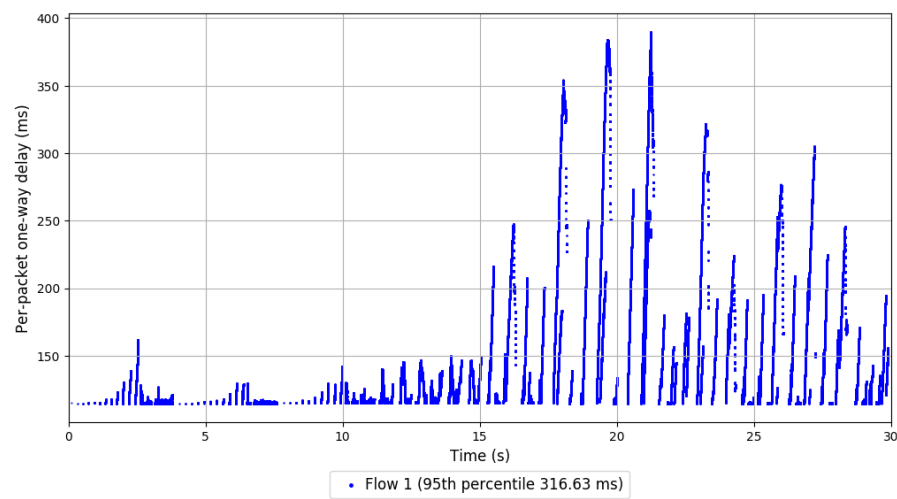
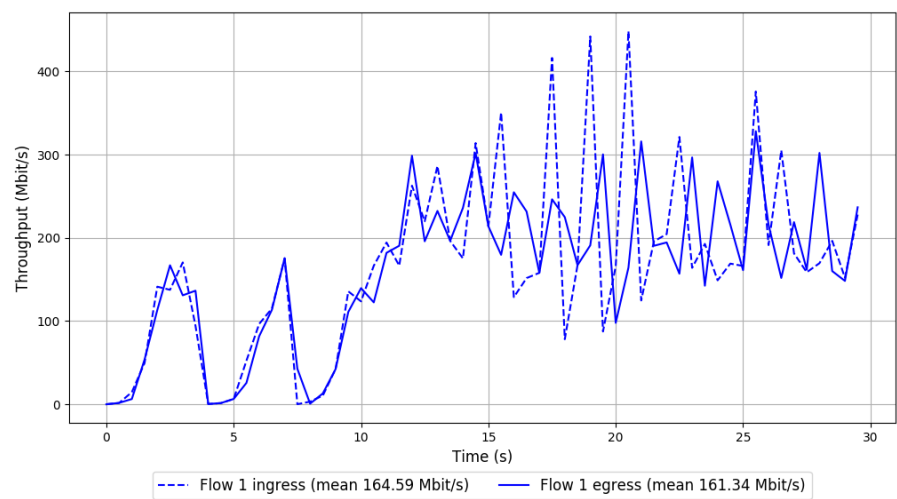
-- Flow 1:

Average throughput: 161.34 Mbit/s

95th percentile per-packet one-way delay: 316.631 ms

Loss rate: 1.97%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-02-27 10:47:27

End at: 2018-02-27 10:47:57

Below is generated by plot.py at 2018-02-27 13:27:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 178.13 Mbit/s

95th percentile per-packet one-way delay: 184.566 ms

Loss rate: 0.81%

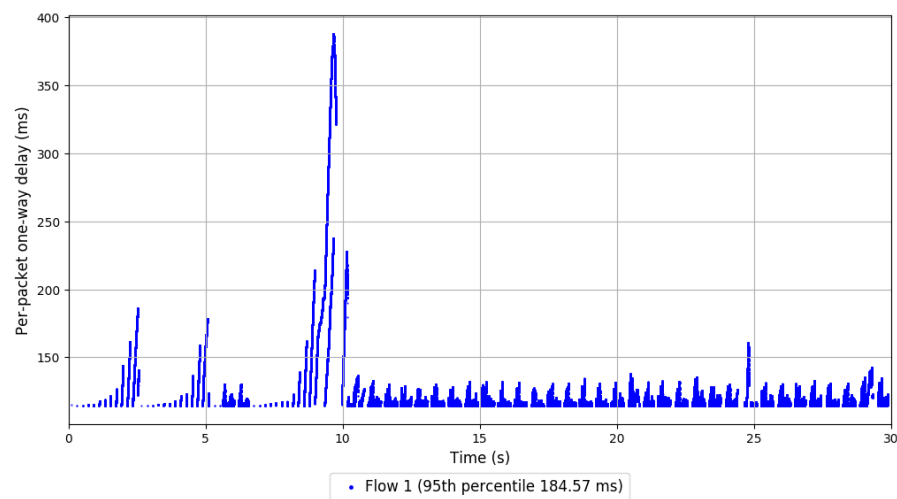
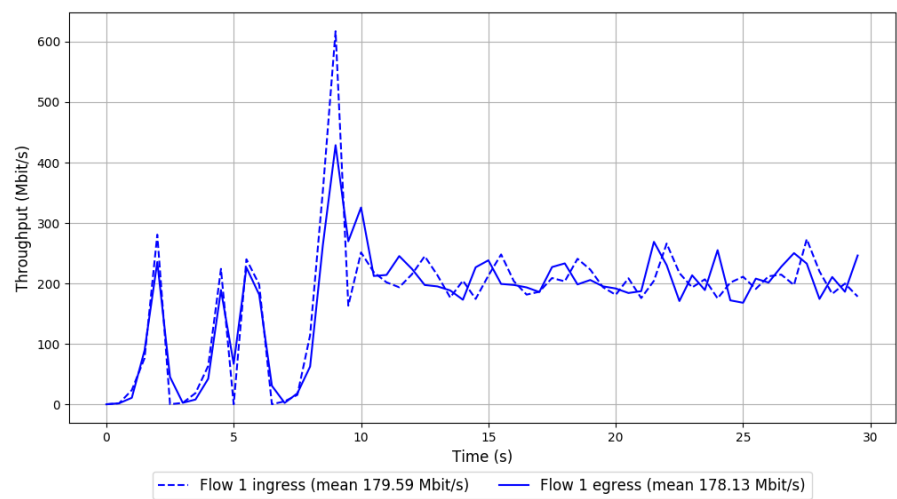
-- Flow 1:

Average throughput: 178.13 Mbit/s

95th percentile per-packet one-way delay: 184.566 ms

Loss rate: 0.81%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-02-27 11:02:24

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

Below is generated by plot.py at 2018-02-27 13:27:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 150.00 Mbit/s

95th percentile per-packet one-way delay: 156.416 ms

Loss rate: 0.00%

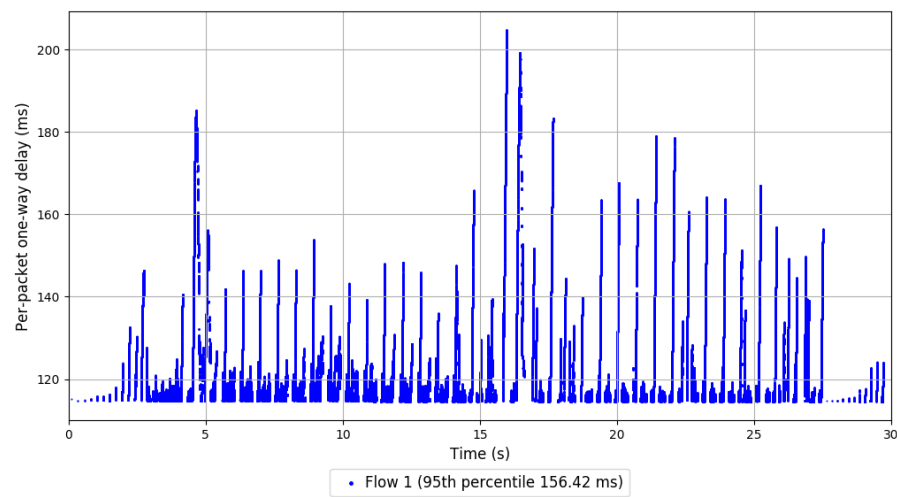
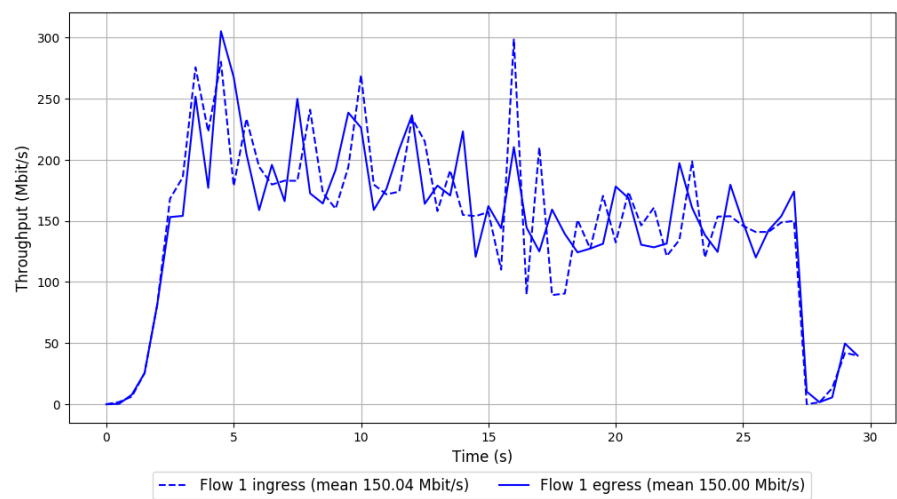
-- Flow 1:

Average throughput: 150.00 Mbit/s

95th percentile per-packet one-way delay: 156.416 ms

Loss rate: 0.00%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2018-02-27 08:41:36

End at: 2018-02-27 08:42:06

Below is generated by plot.py at 2018-02-27 13:27:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 42.73 Mbit/s

95th percentile per-packet one-way delay: 113.235 ms

Loss rate: 0.02%

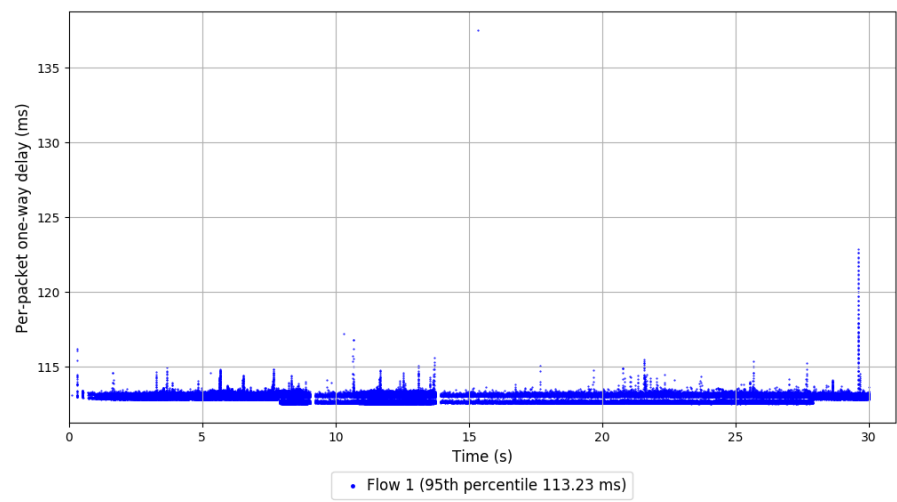
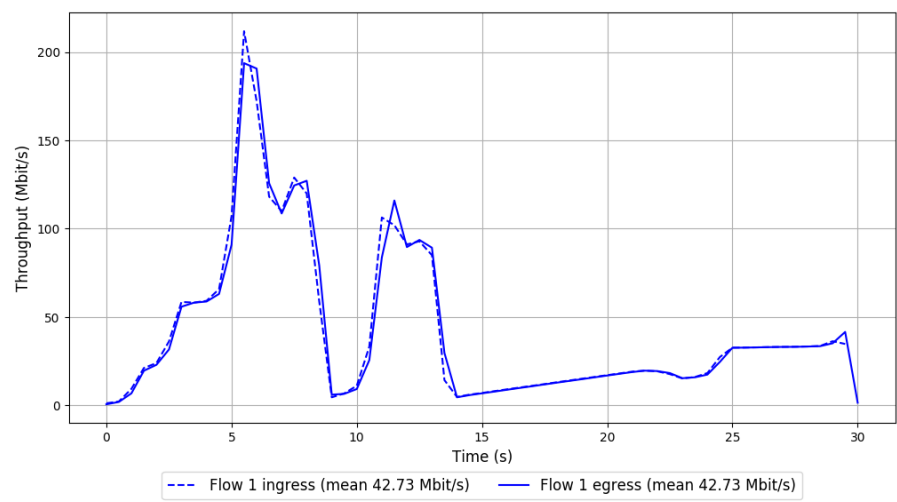
-- Flow 1:

Average throughput: 42.73 Mbit/s

95th percentile per-packet one-way delay: 113.235 ms

Loss rate: 0.02%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-02-27 08:56:41

End at: 2018-02-27 08:57:11

Below is generated by plot.py at 2018-02-27 13:27:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 57.12 Mbit/s

95th percentile per-packet one-way delay: 114.295 ms

Loss rate: 0.01%

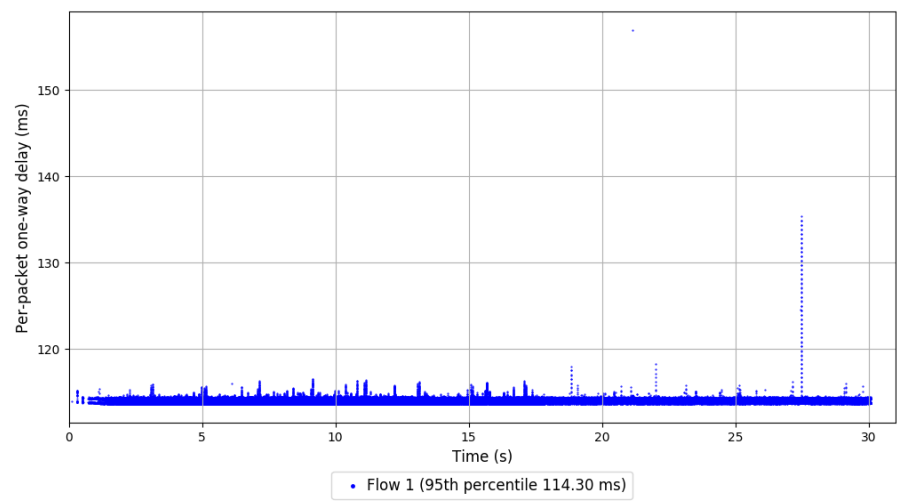
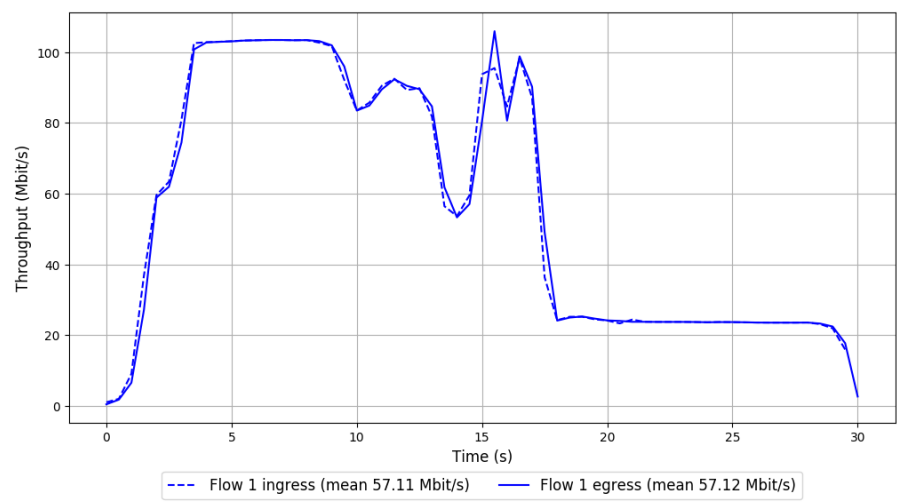
-- Flow 1:

Average throughput: 57.12 Mbit/s

95th percentile per-packet one-way delay: 114.295 ms

Loss rate: 0.01%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-02-27 09:11:26

End at: 2018-02-27 09:11:56

Below is generated by plot.py at 2018-02-27 13:27:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 15.08 Mbit/s

95th percentile per-packet one-way delay: 114.674 ms

Loss rate: 0.00%

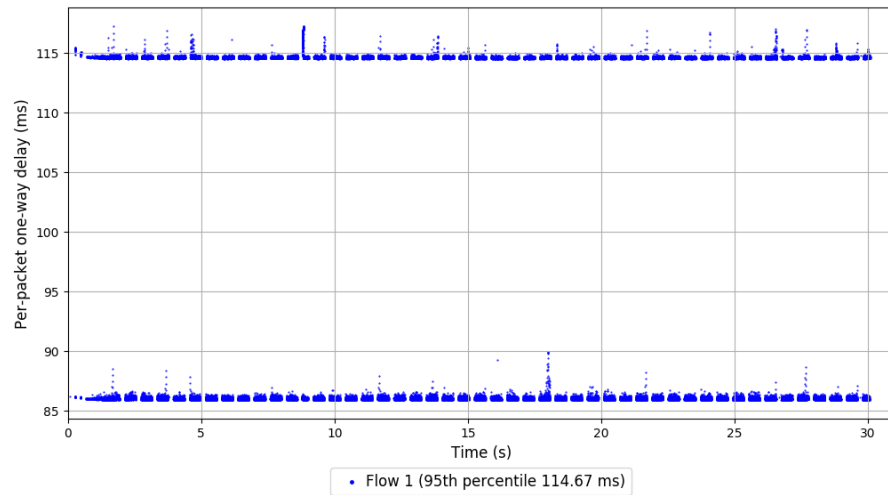
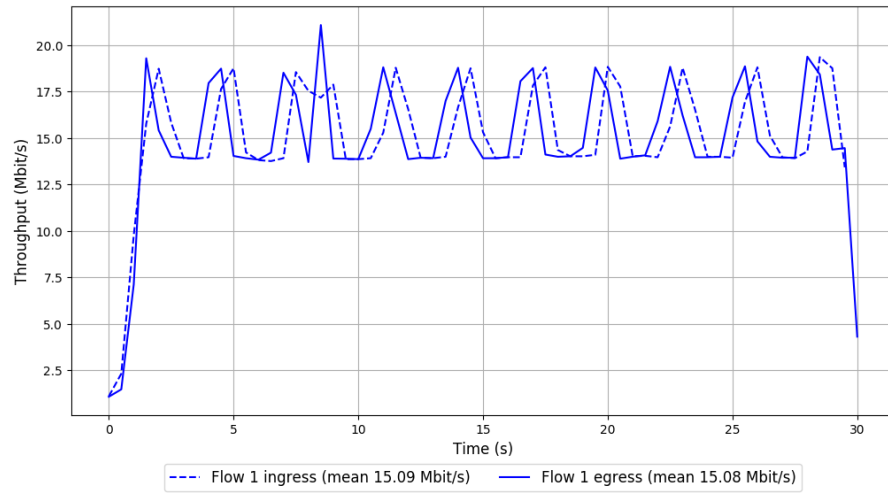
-- Flow 1:

Average throughput: 15.08 Mbit/s

95th percentile per-packet one-way delay: 114.674 ms

Loss rate: 0.00%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-02-27 09:26:00

End at: 2018-02-27 09:26:30

Below is generated by plot.py at 2018-02-27 13:27:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 14.57 Mbit/s

95th percentile per-packet one-way delay: 114.756 ms

Loss rate: 0.01%

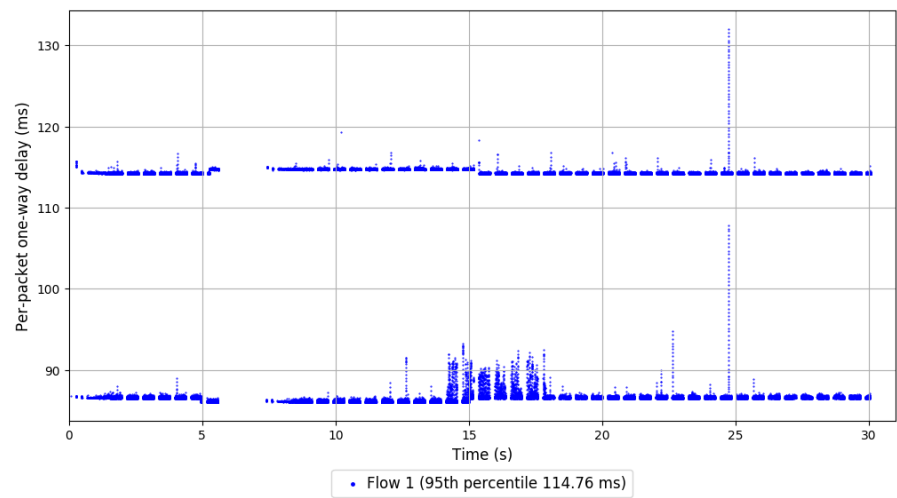
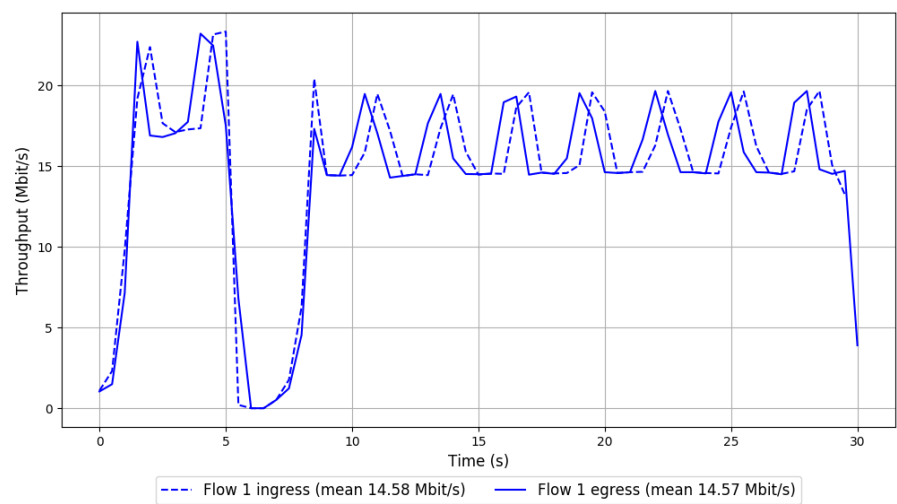
-- Flow 1:

Average throughput: 14.57 Mbit/s

95th percentile per-packet one-way delay: 114.756 ms

Loss rate: 0.01%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-02-27 09:40:28

End at: 2018-02-27 09:40:58

Below is generated by plot.py at 2018-02-27 13:28:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 32.62 Mbit/s

95th percentile per-packet one-way delay: 115.729 ms

Loss rate: 0.02%

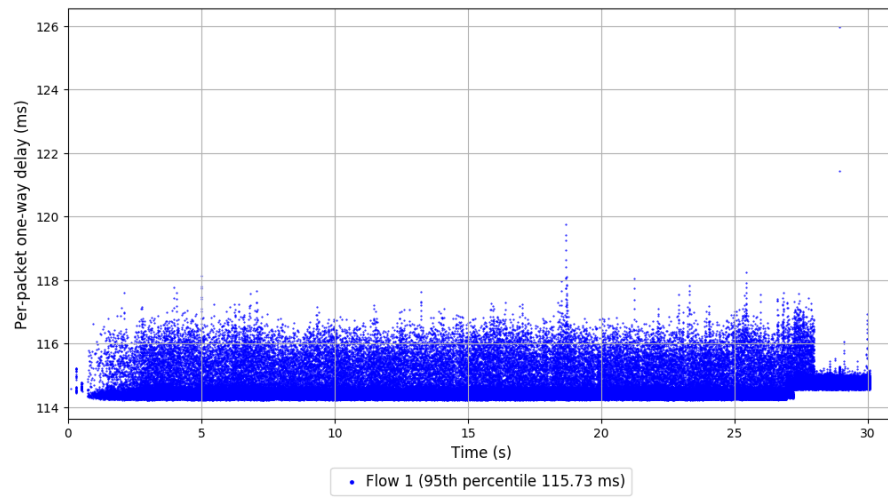
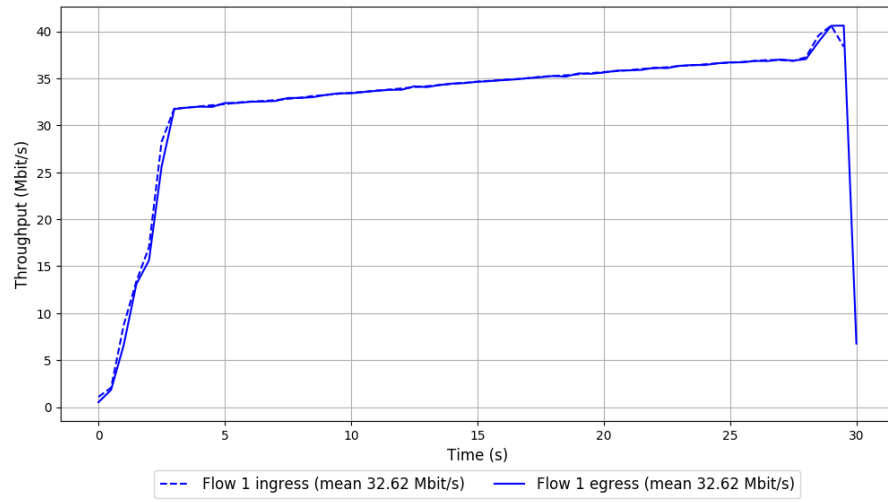
-- Flow 1:

Average throughput: 32.62 Mbit/s

95th percentile per-packet one-way delay: 115.729 ms

Loss rate: 0.02%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-02-27 09:55:28

End at: 2018-02-27 09:55:58

Below is generated by plot.py at 2018-02-27 13:28:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.06 Mbit/s

95th percentile per-packet one-way delay: 114.994 ms

Loss rate: 0.01%

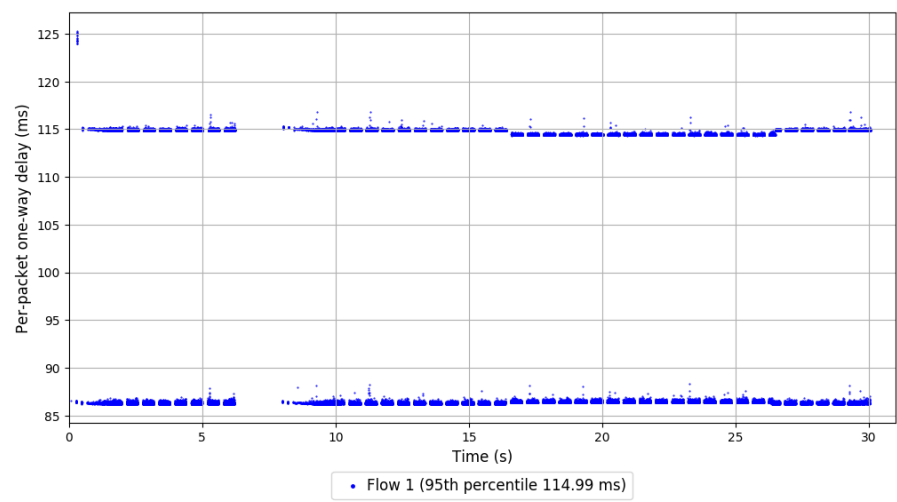
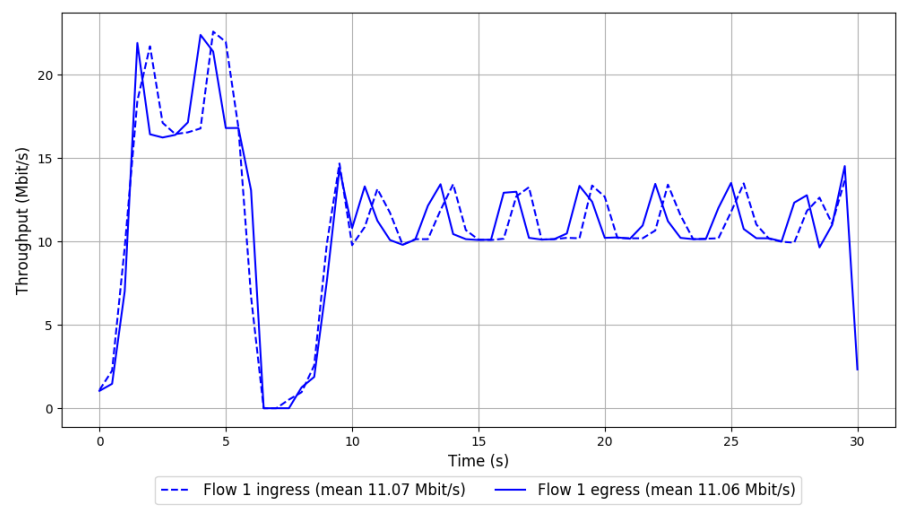
-- Flow 1:

Average throughput: 11.06 Mbit/s

95th percentile per-packet one-way delay: 114.994 ms

Loss rate: 0.01%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-02-27 10:10:09

End at: 2018-02-27 10:10:39

Below is generated by plot.py at 2018-02-27 13:28:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.35 Mbit/s

95th percentile per-packet one-way delay: 114.518 ms

Loss rate: 0.00%

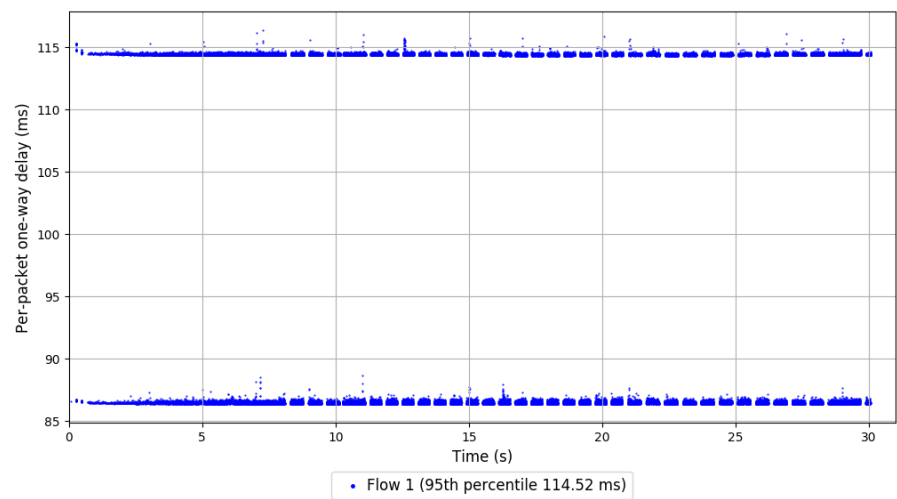
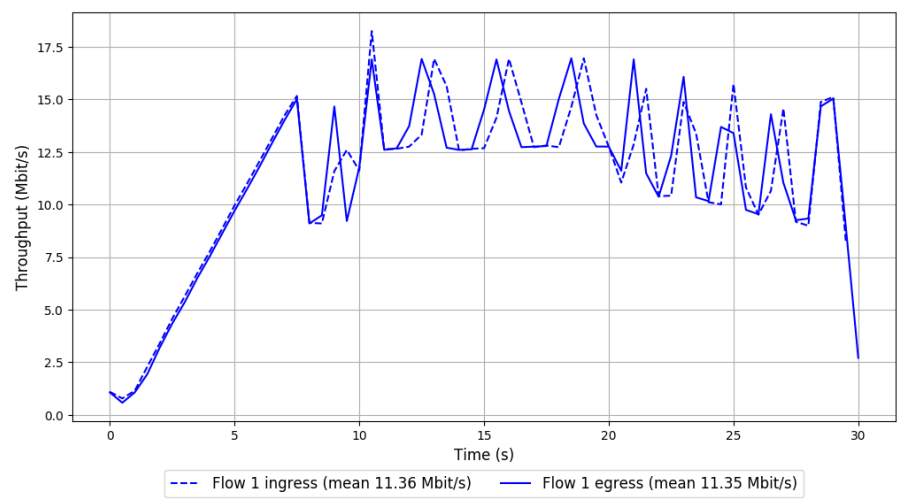
-- Flow 1:

Average throughput: 11.35 Mbit/s

95th percentile per-packet one-way delay: 114.518 ms

Loss rate: 0.00%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-02-27 10:24:56

End at: 2018-02-27 10:25:26

Below is generated by plot.py at 2018-02-27 13:30:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.00 Mbit/s

95th percentile per-packet one-way delay: 114.739 ms

Loss rate: 0.02%

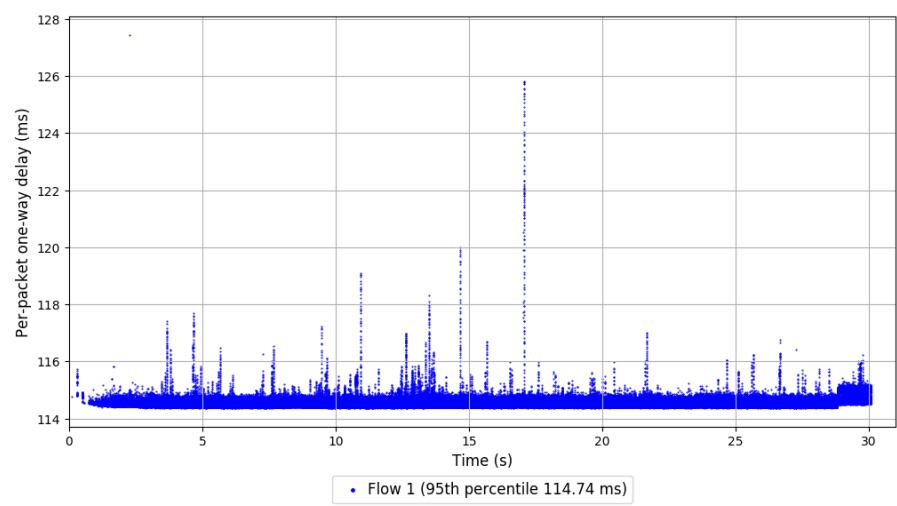
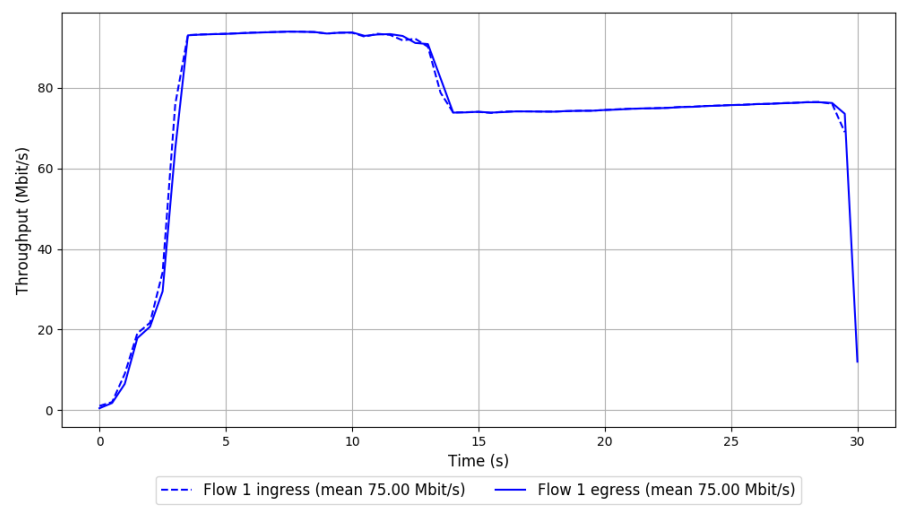
-- Flow 1:

Average throughput: 75.00 Mbit/s

95th percentile per-packet one-way delay: 114.739 ms

Loss rate: 0.02%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-02-27 10:40:05

End at: 2018-02-27 10:40:35

Below is generated by plot.py at 2018-02-27 13:30:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 65.35 Mbit/s

95th percentile per-packet one-way delay: 114.897 ms

Loss rate: 0.00%

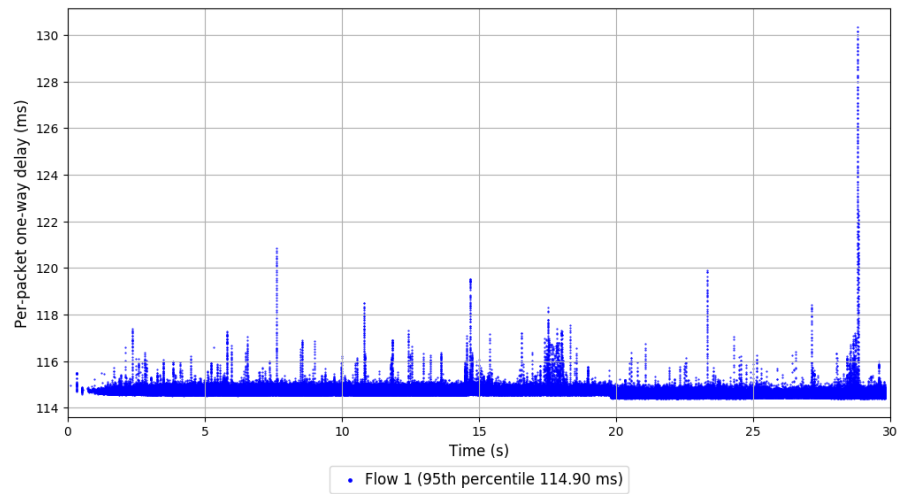
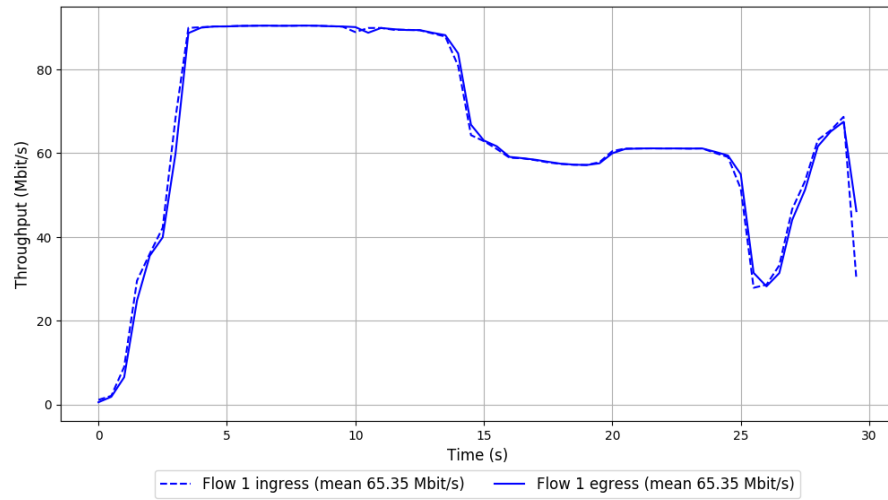
-- Flow 1:

Average throughput: 65.35 Mbit/s

95th percentile per-packet one-way delay: 114.897 ms

Loss rate: 0.00%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-02-27 10:54:49

End at: 2018-02-27 10:55:19

Below is generated by plot.py at 2018-02-27 13:30:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.60 Mbit/s

95th percentile per-packet one-way delay: 114.800 ms

Loss rate: 0.03%

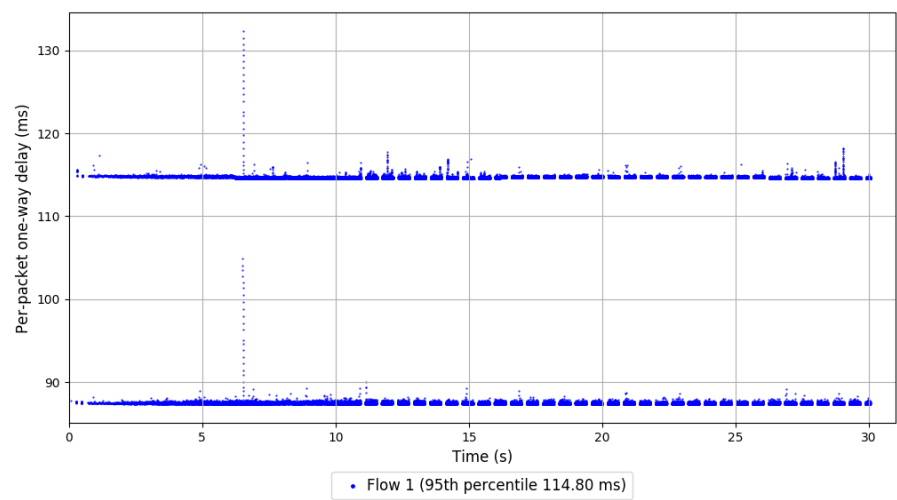
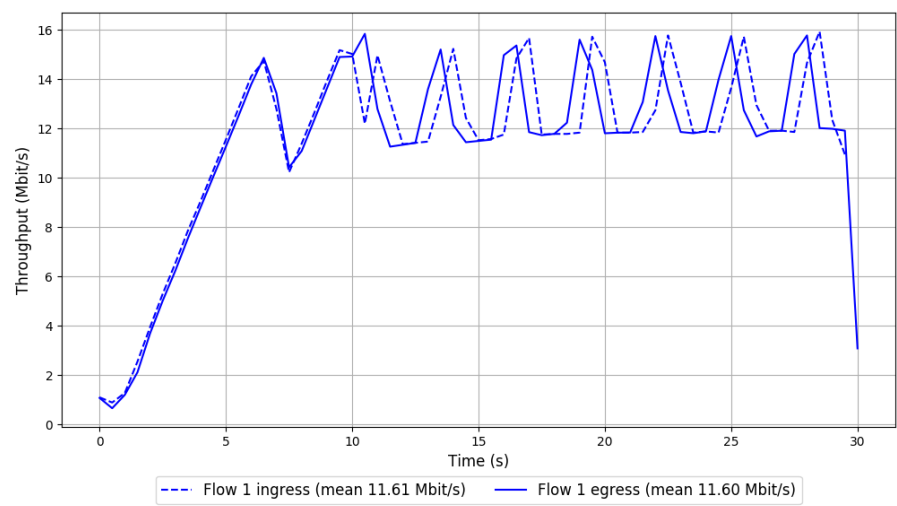
-- Flow 1:

Average throughput: 11.60 Mbit/s

95th percentile per-packet one-way delay: 114.800 ms

Loss rate: 0.03%

Run 10: Report of Copa — Data Link



Run 1: Statistics of FillP

Start at: 2018-02-27 08:42:22

End at: 2018-02-27 08:42:52

Below is generated by plot.py at 2018-02-27 13:52:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 833.89 Mbit/s

95th percentile per-packet one-way delay: 331.669 ms

Loss rate: 4.75%

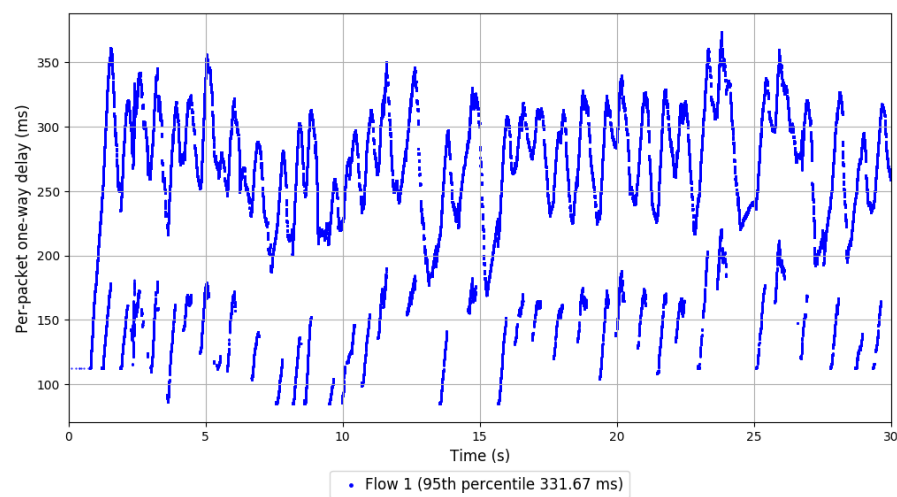
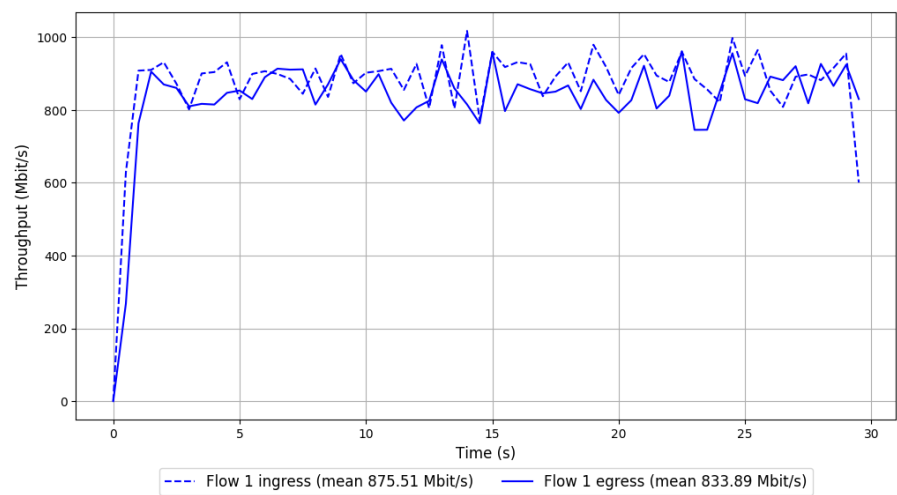
-- Flow 1:

Average throughput: 833.89 Mbit/s

95th percentile per-packet one-way delay: 331.669 ms

Loss rate: 4.75%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-02-27 08:57:27

End at: 2018-02-27 08:57:57

Below is generated by plot.py at 2018-02-27 13:53:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 846.62 Mbit/s

95th percentile per-packet one-way delay: 349.518 ms

Loss rate: 3.24%

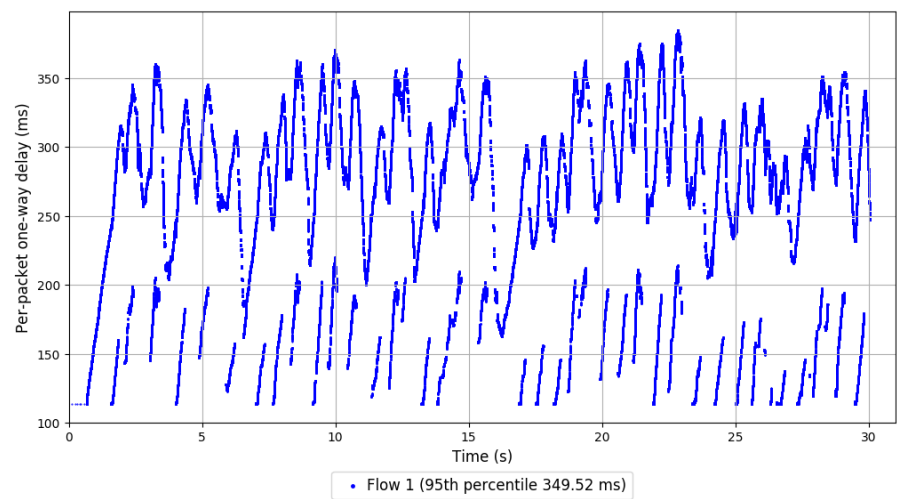
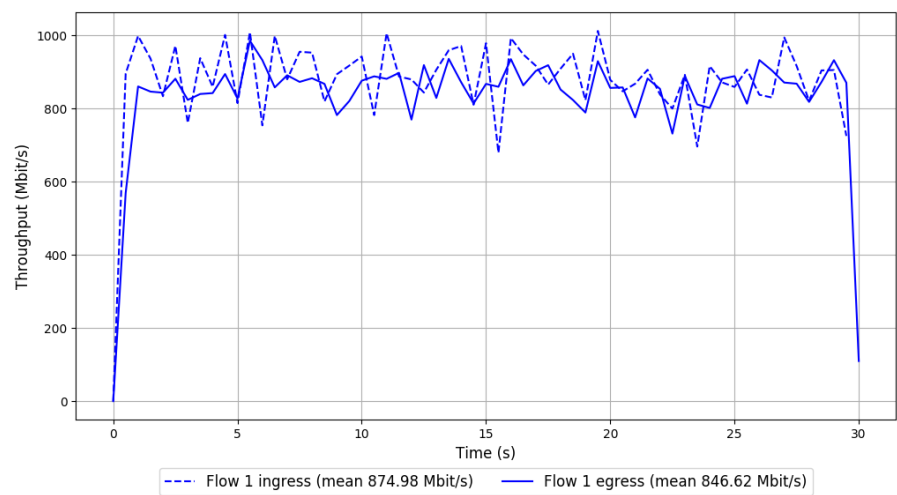
-- Flow 1:

Average throughput: 846.62 Mbit/s

95th percentile per-packet one-way delay: 349.518 ms

Loss rate: 3.24%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-02-27 09:12:08

End at: 2018-02-27 09:12:38

Below is generated by plot.py at 2018-02-27 13:53:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 842.16 Mbit/s

95th percentile per-packet one-way delay: 349.697 ms

Loss rate: 2.50%

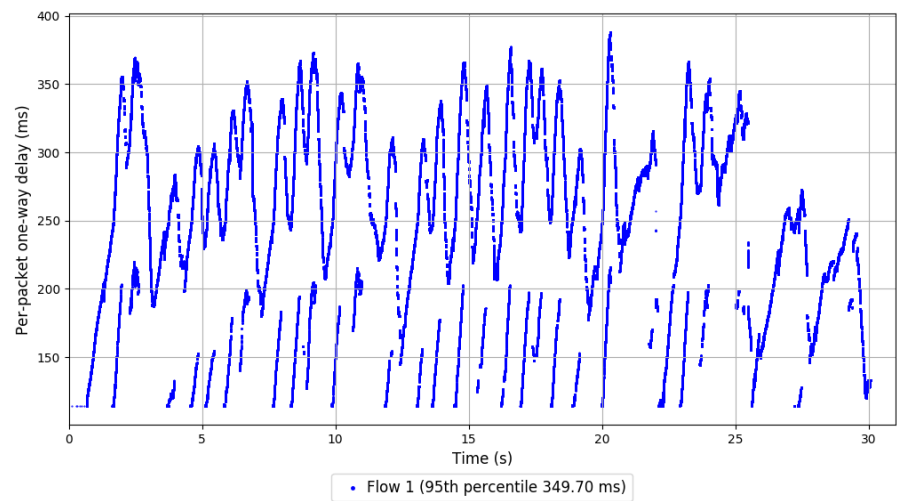
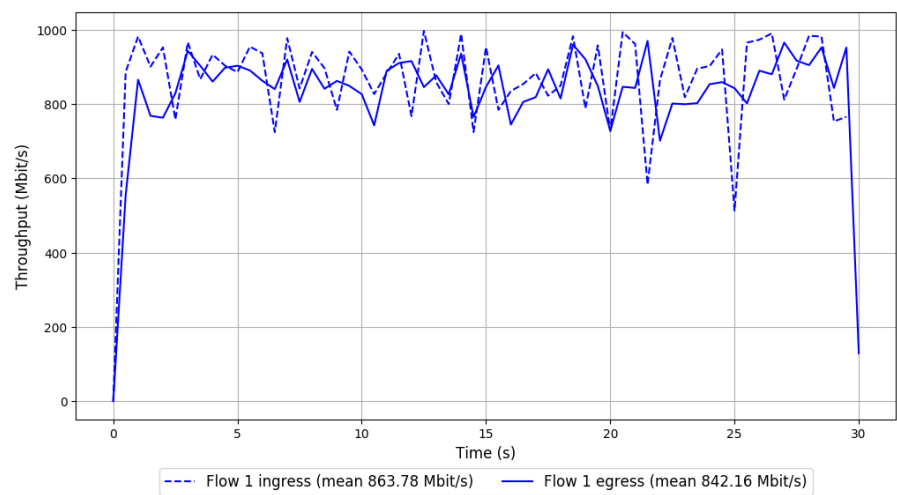
-- Flow 1:

Average throughput: 842.16 Mbit/s

95th percentile per-packet one-way delay: 349.697 ms

Loss rate: 2.50%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-02-27 09:26:41

End at: 2018-02-27 09:27:11

Below is generated by plot.py at 2018-02-27 13:53:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 816.61 Mbit/s

95th percentile per-packet one-way delay: 328.167 ms

Loss rate: 3.77%

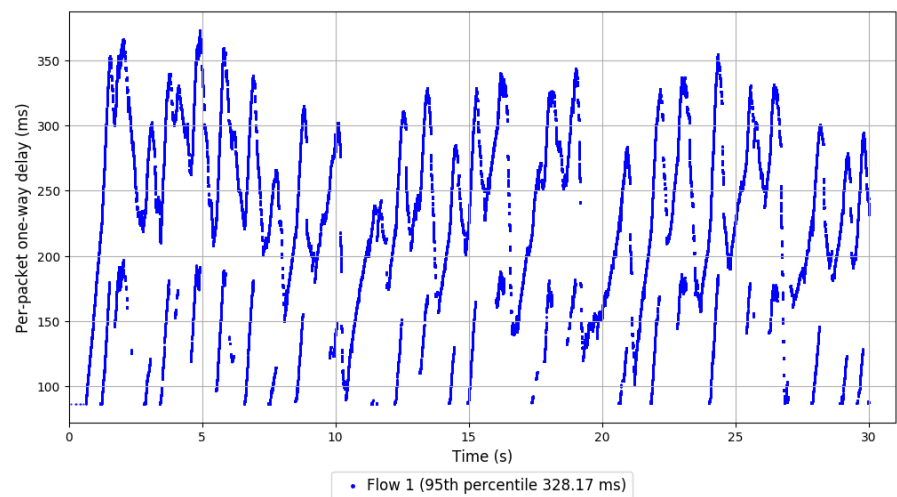
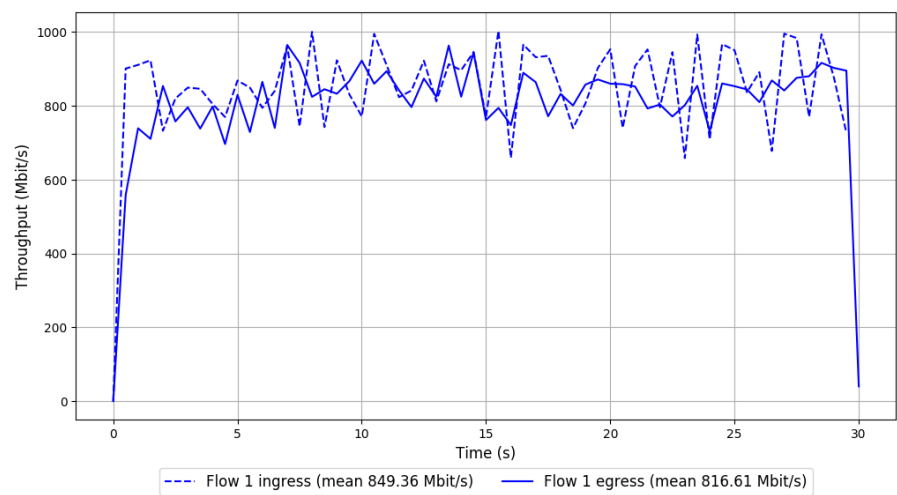
-- Flow 1:

Average throughput: 816.61 Mbit/s

95th percentile per-packet one-way delay: 328.167 ms

Loss rate: 3.77%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-02-27 09:41:12

End at: 2018-02-27 09:41:42

Below is generated by plot.py at 2018-02-27 13:53:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 833.10 Mbit/s

95th percentile per-packet one-way delay: 328.806 ms

Loss rate: 3.00%

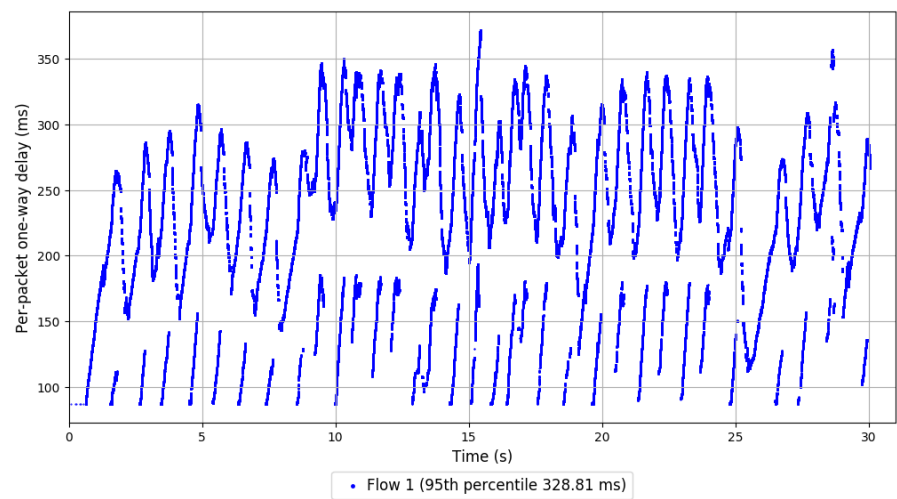
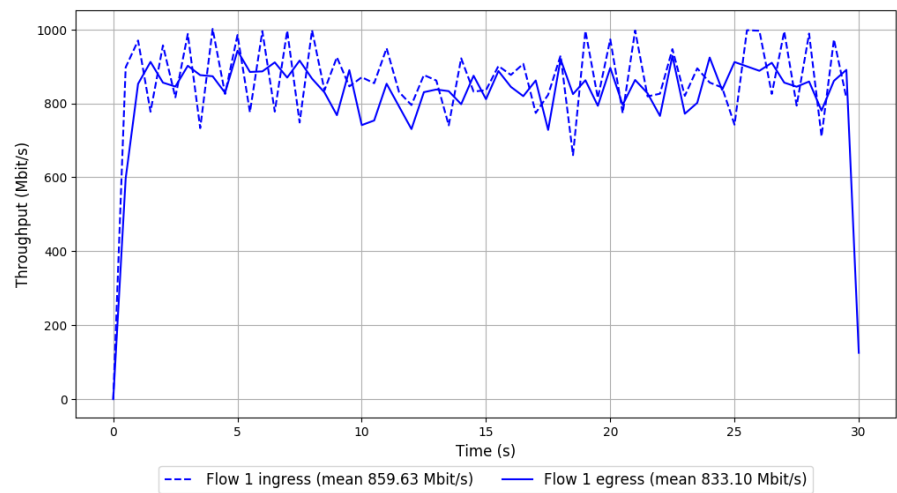
-- Flow 1:

Average throughput: 833.10 Mbit/s

95th percentile per-packet one-way delay: 328.806 ms

Loss rate: 3.00%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-02-27 09:56:10

End at: 2018-02-27 09:56:40

Below is generated by plot.py at 2018-02-27 13:53:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 850.23 Mbit/s

95th percentile per-packet one-way delay: 341.428 ms

Loss rate: 2.59%

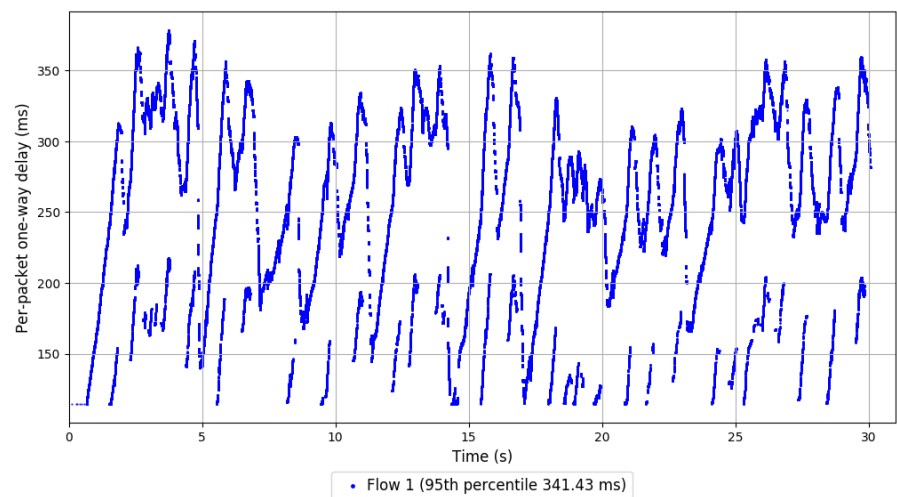
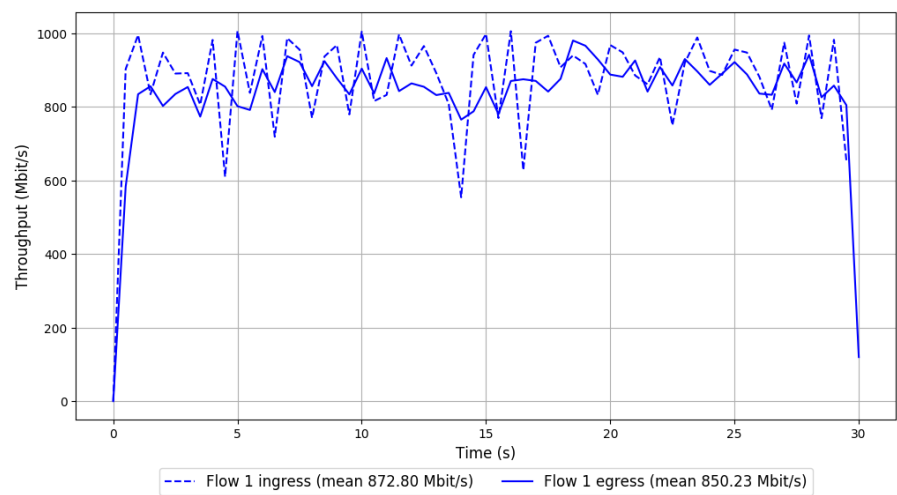
-- Flow 1:

Average throughput: 850.23 Mbit/s

95th percentile per-packet one-way delay: 341.428 ms

Loss rate: 2.59%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-02-27 10:10:50

End at: 2018-02-27 10:11:20

Below is generated by plot.py at 2018-02-27 13:54:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 864.51 Mbit/s

95th percentile per-packet one-way delay: 317.974 ms

Loss rate: 0.75%

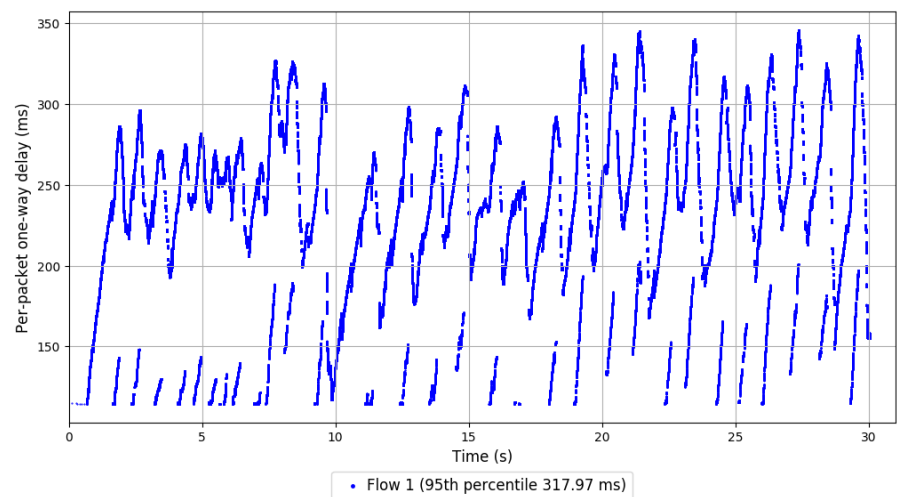
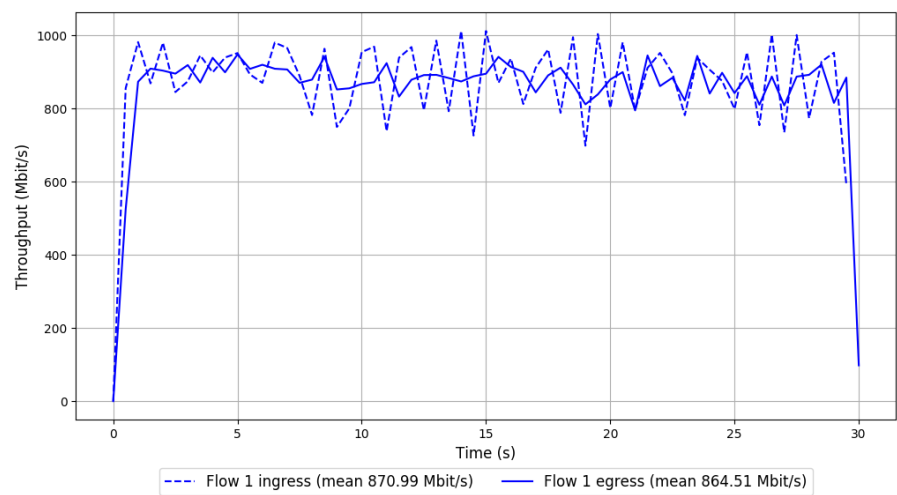
-- Flow 1:

Average throughput: 864.51 Mbit/s

95th percentile per-packet one-way delay: 317.974 ms

Loss rate: 0.75%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-02-27 10:25:44

End at: 2018-02-27 10:26:14

Below is generated by plot.py at 2018-02-27 13:54:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 823.06 Mbit/s

95th percentile per-packet one-way delay: 354.352 ms

Loss rate: 1.29%

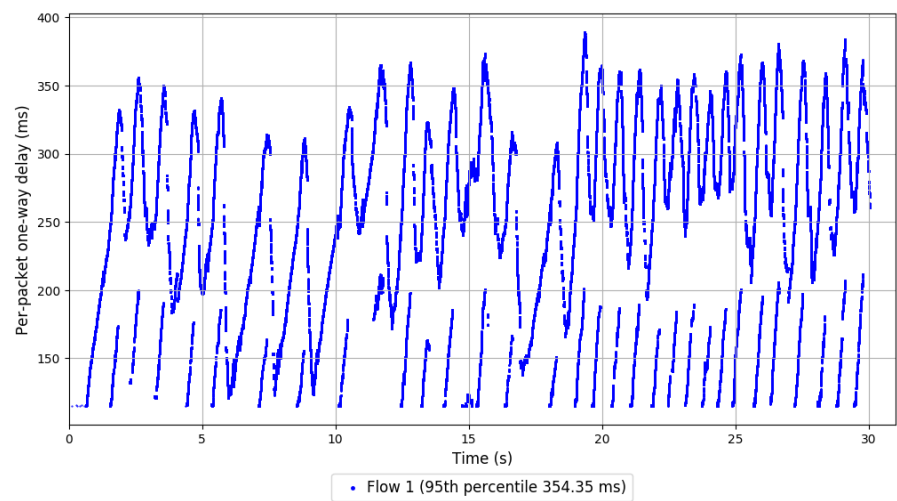
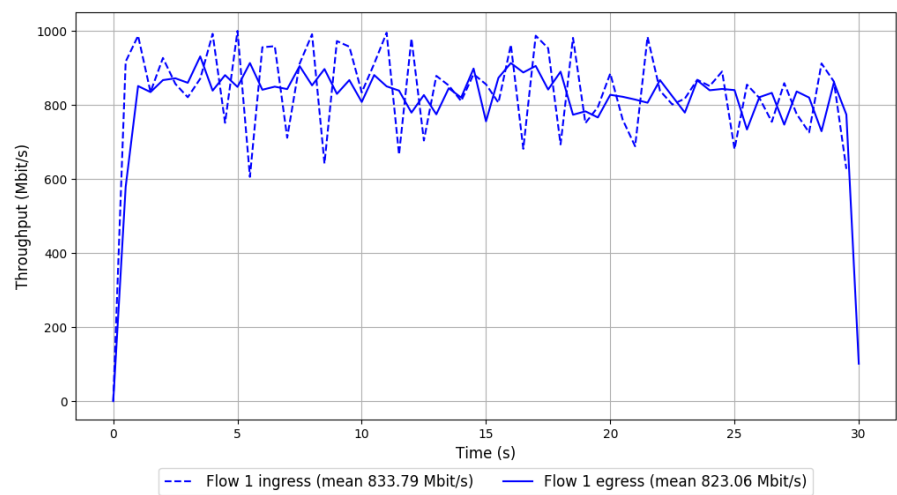
-- Flow 1:

Average throughput: 823.06 Mbit/s

95th percentile per-packet one-way delay: 354.352 ms

Loss rate: 1.29%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-02-27 10:40:52

End at: 2018-02-27 10:41:22

Below is generated by plot.py at 2018-02-27 14:16:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 806.52 Mbit/s

95th percentile per-packet one-way delay: 358.068 ms

Loss rate: 5.13%

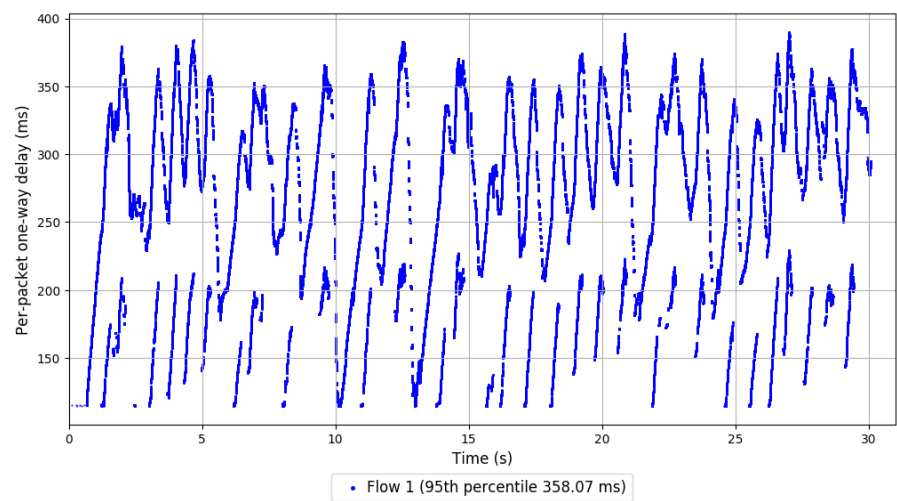
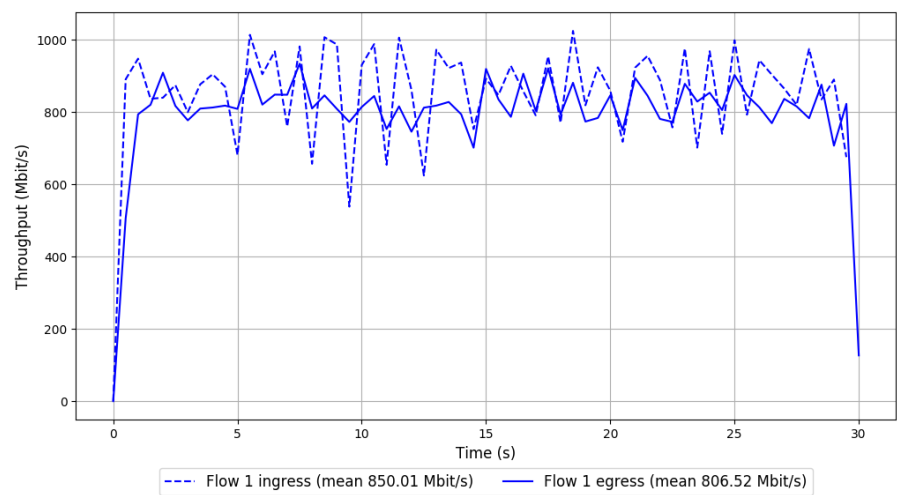
-- Flow 1:

Average throughput: 806.52 Mbit/s

95th percentile per-packet one-way delay: 358.068 ms

Loss rate: 5.13%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-02-27 10:55:30

End at: 2018-02-27 10:56:00

Below is generated by plot.py at 2018-02-27 14:17:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 831.07 Mbit/s

95th percentile per-packet one-way delay: 352.818 ms

Loss rate: 3.48%

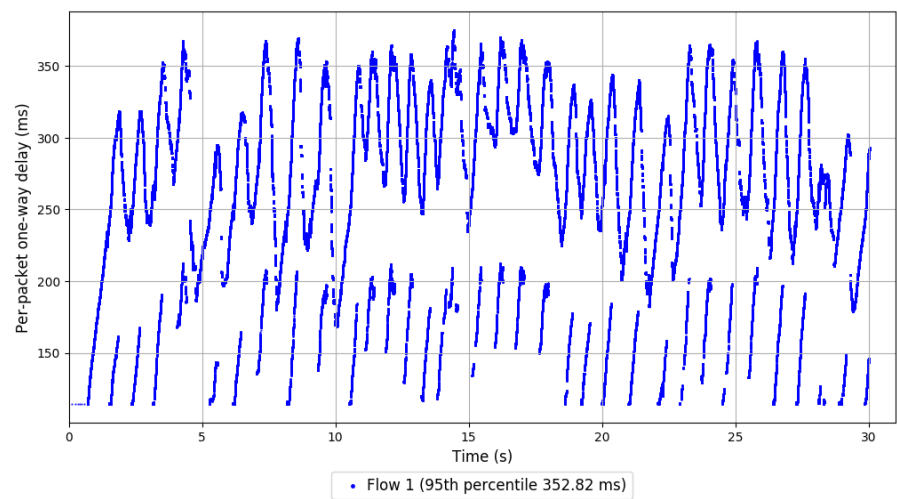
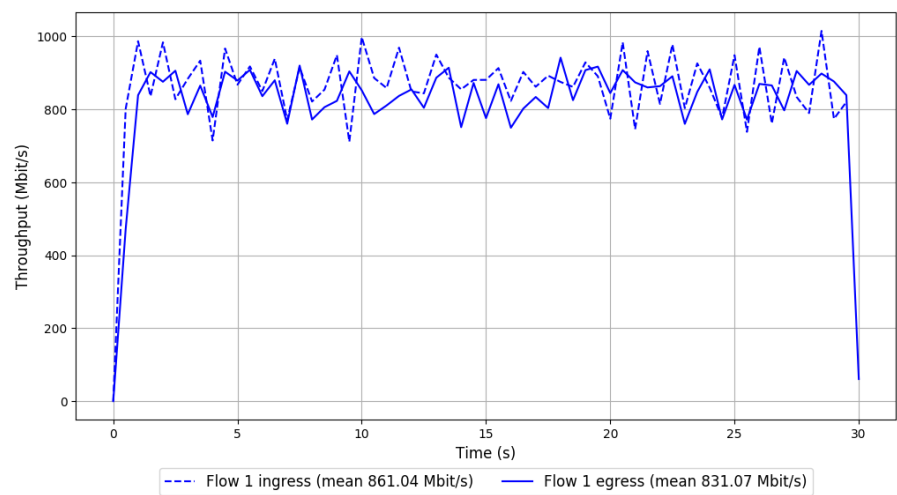
-- Flow 1:

Average throughput: 831.07 Mbit/s

95th percentile per-packet one-way delay: 352.818 ms

Loss rate: 3.48%

Run 10: Report of FillP — Data Link

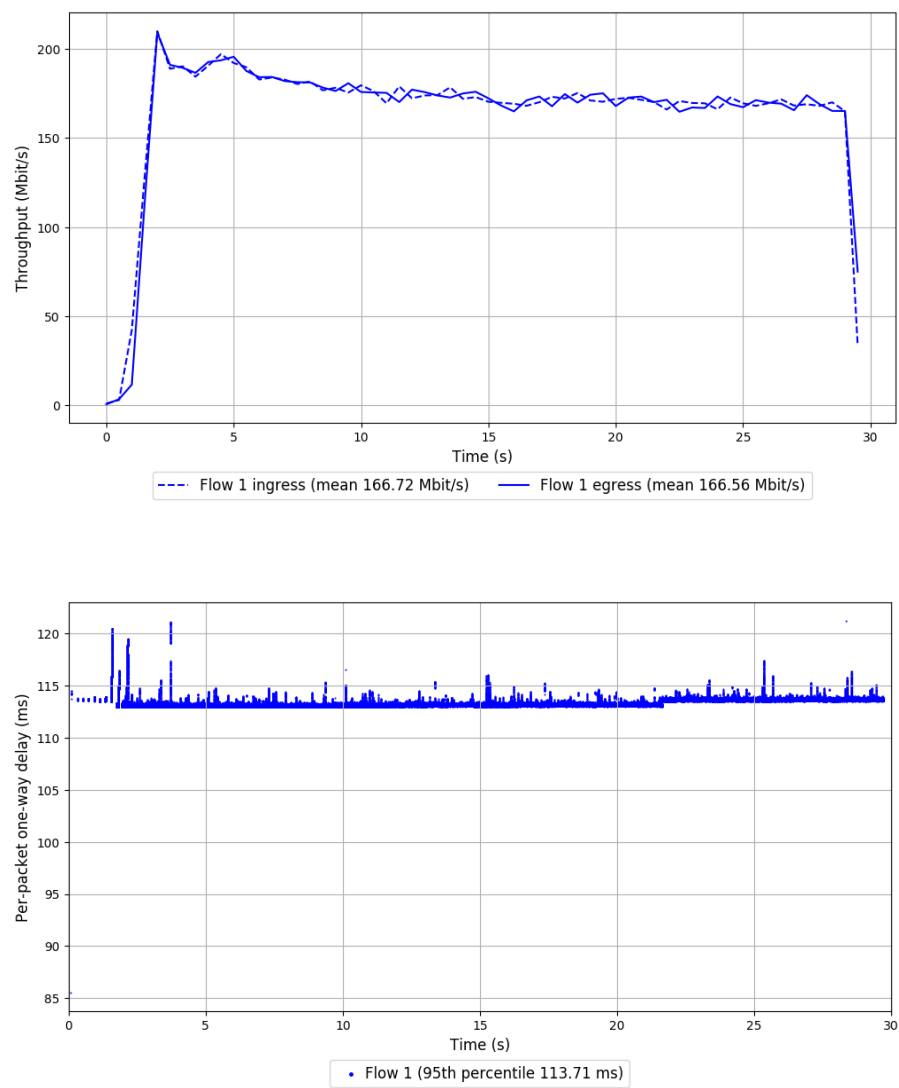


```
Run 1: Statistics of Indigo-1-32

Start at: 2018-02-27 08:48:22
End at: 2018-02-27 08:48:52

# Below is generated by plot.py at 2018-02-27 14:17:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 166.56 Mbit/s
95th percentile per-packet one-way delay: 113.710 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 166.56 Mbit/s
95th percentile per-packet one-way delay: 113.710 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 09:03:15

End at: 2018-02-27 09:03:45

Below is generated by plot.py at 2018-02-27 14:17:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 152.41 Mbit/s

95th percentile per-packet one-way delay: 114.557 ms

Loss rate: 0.00%

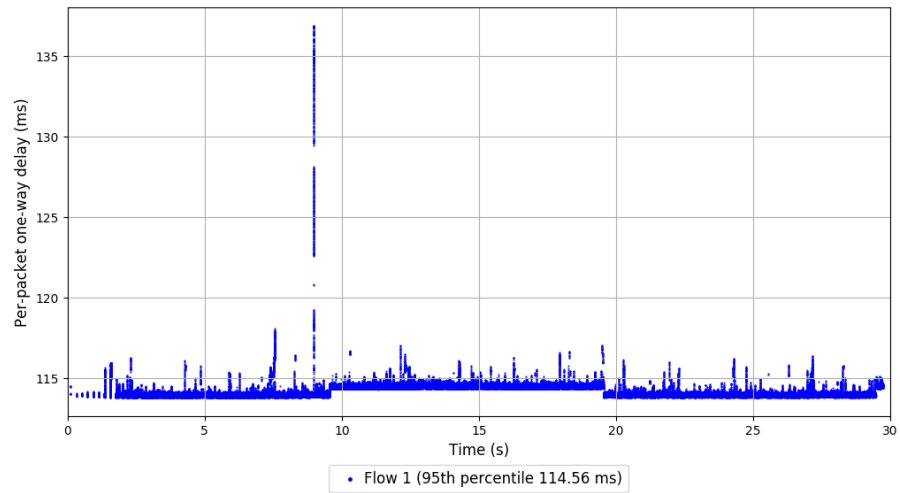
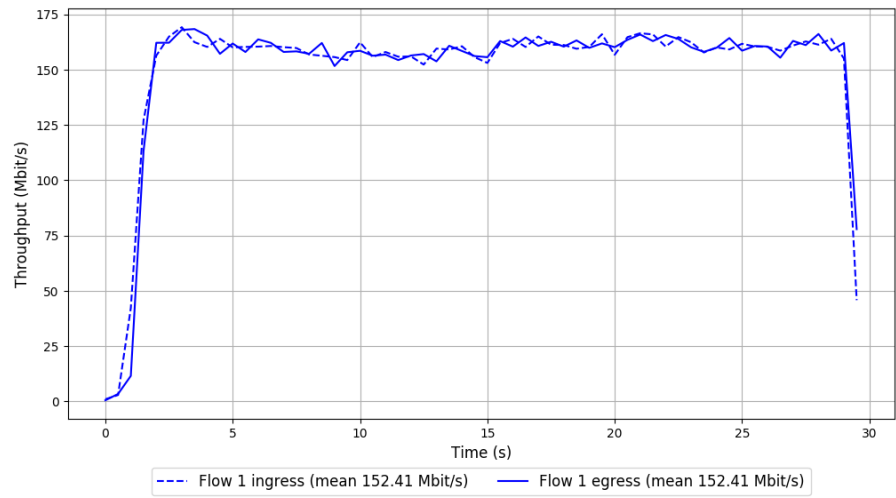
-- Flow 1:

Average throughput: 152.41 Mbit/s

95th percentile per-packet one-way delay: 114.557 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 09:17:45

End at: 2018-02-27 09:18:15

Below is generated by plot.py at 2018-02-27 14:17:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 148.25 Mbit/s

95th percentile per-packet one-way delay: 114.743 ms

Loss rate: 0.00%

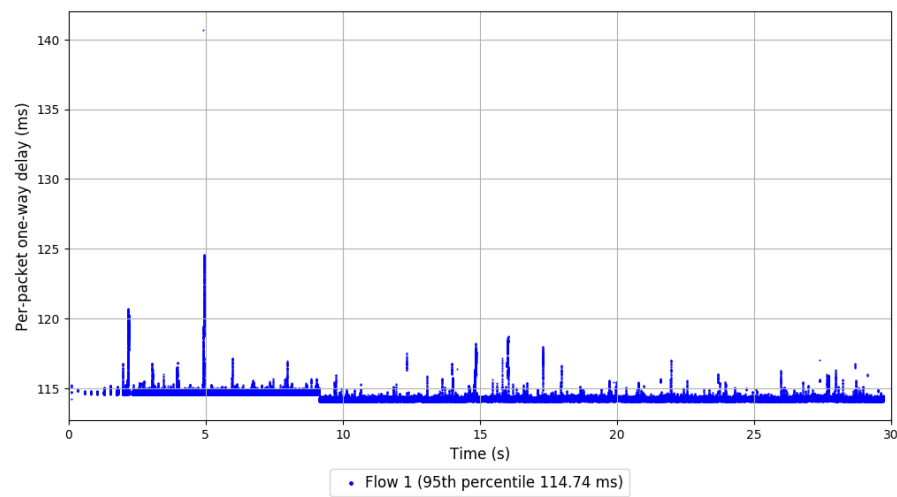
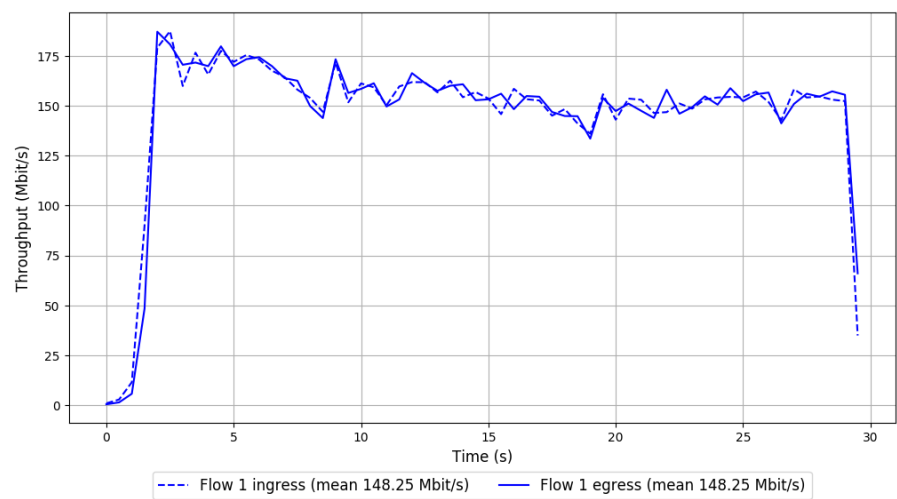
-- Flow 1:

Average throughput: 148.25 Mbit/s

95th percentile per-packet one-way delay: 114.743 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 09:32:21

End at: 2018-02-27 09:32:51

Below is generated by plot.py at 2018-02-27 14:17:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 124.57 Mbit/s

95th percentile per-packet one-way delay: 114.900 ms

Loss rate: 0.00%

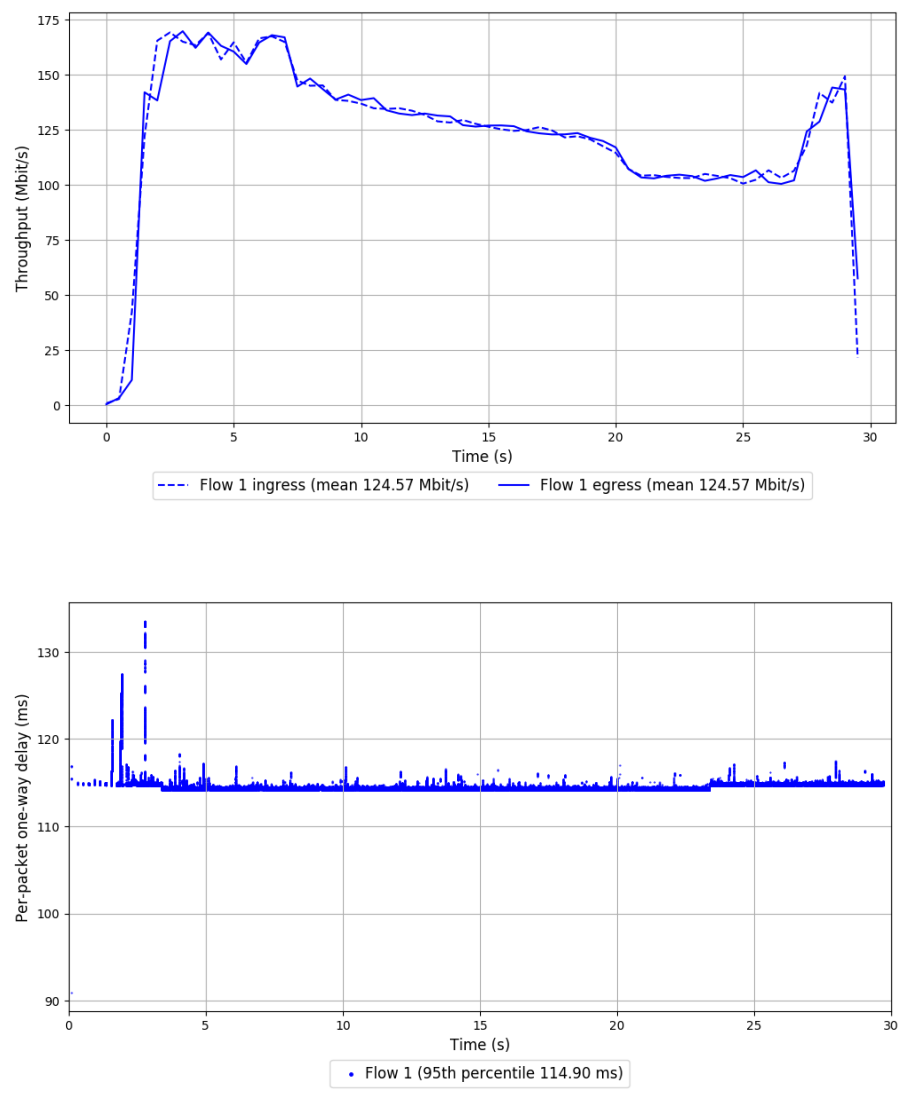
-- Flow 1:

Average throughput: 124.57 Mbit/s

95th percentile per-packet one-way delay: 114.900 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 09:47:17

End at: 2018-02-27 09:47:47

Below is generated by plot.py at 2018-02-27 14:17:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 156.14 Mbit/s

95th percentile per-packet one-way delay: 115.042 ms

Loss rate: 0.00%

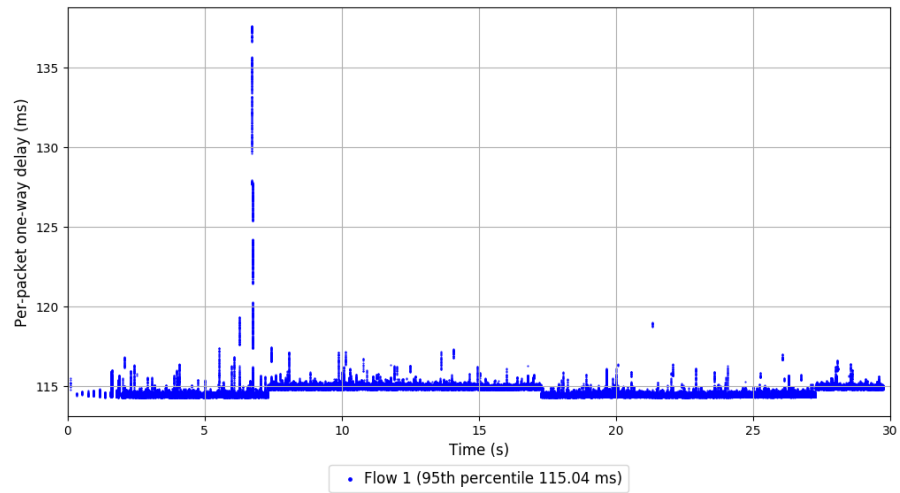
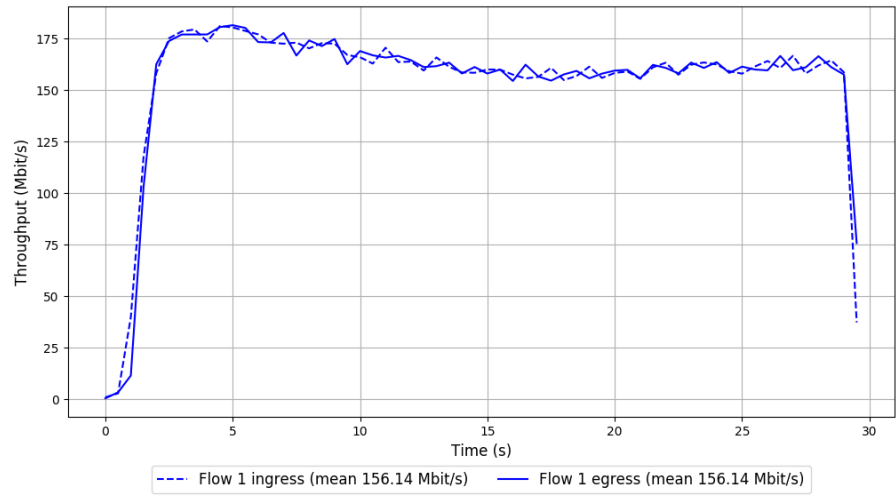
-- Flow 1:

Average throughput: 156.14 Mbit/s

95th percentile per-packet one-way delay: 115.042 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 10:02:01

End at: 2018-02-27 10:02:31

Below is generated by plot.py at 2018-02-27 14:17:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 156.70 Mbit/s

95th percentile per-packet one-way delay: 115.071 ms

Loss rate: 0.00%

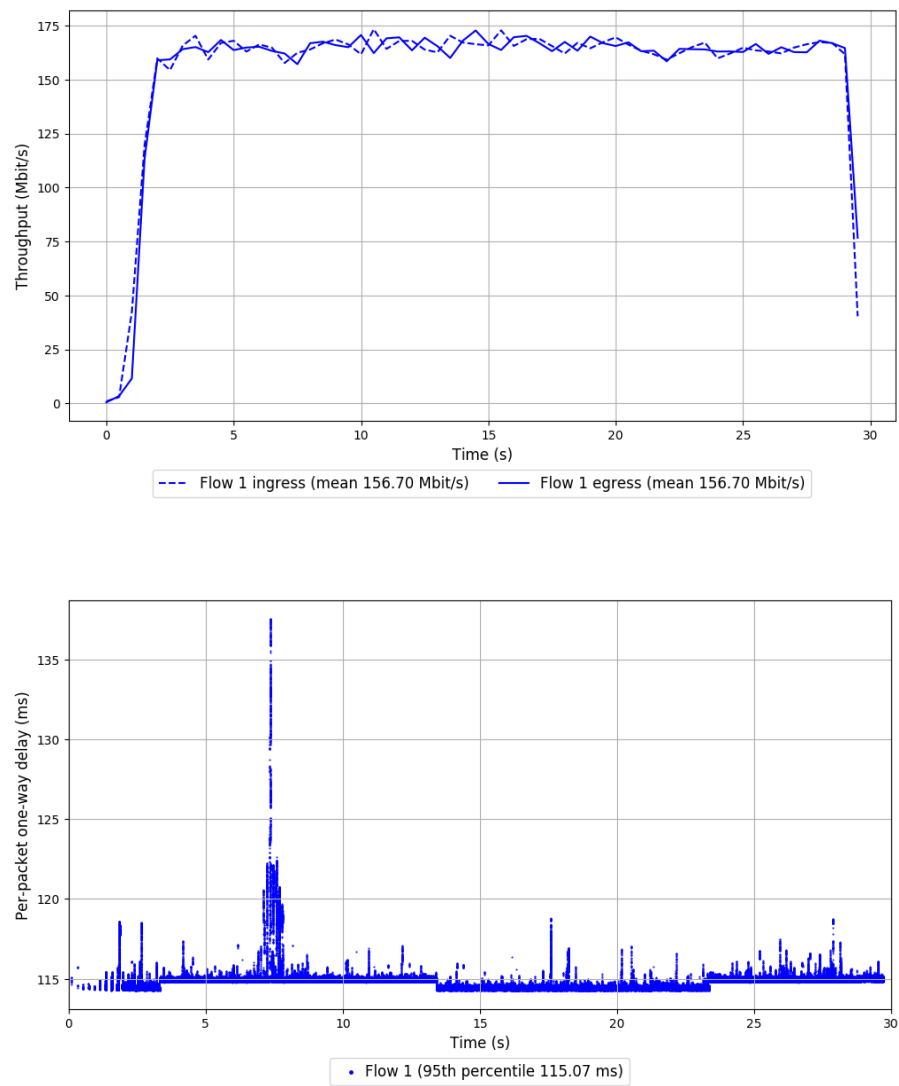
-- Flow 1:

Average throughput: 156.70 Mbit/s

95th percentile per-packet one-way delay: 115.071 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 10:16:31

End at: 2018-02-27 10:17:01

Below is generated by plot.py at 2018-02-27 14:17:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 154.32 Mbit/s

95th percentile per-packet one-way delay: 115.092 ms

Loss rate: 0.00%

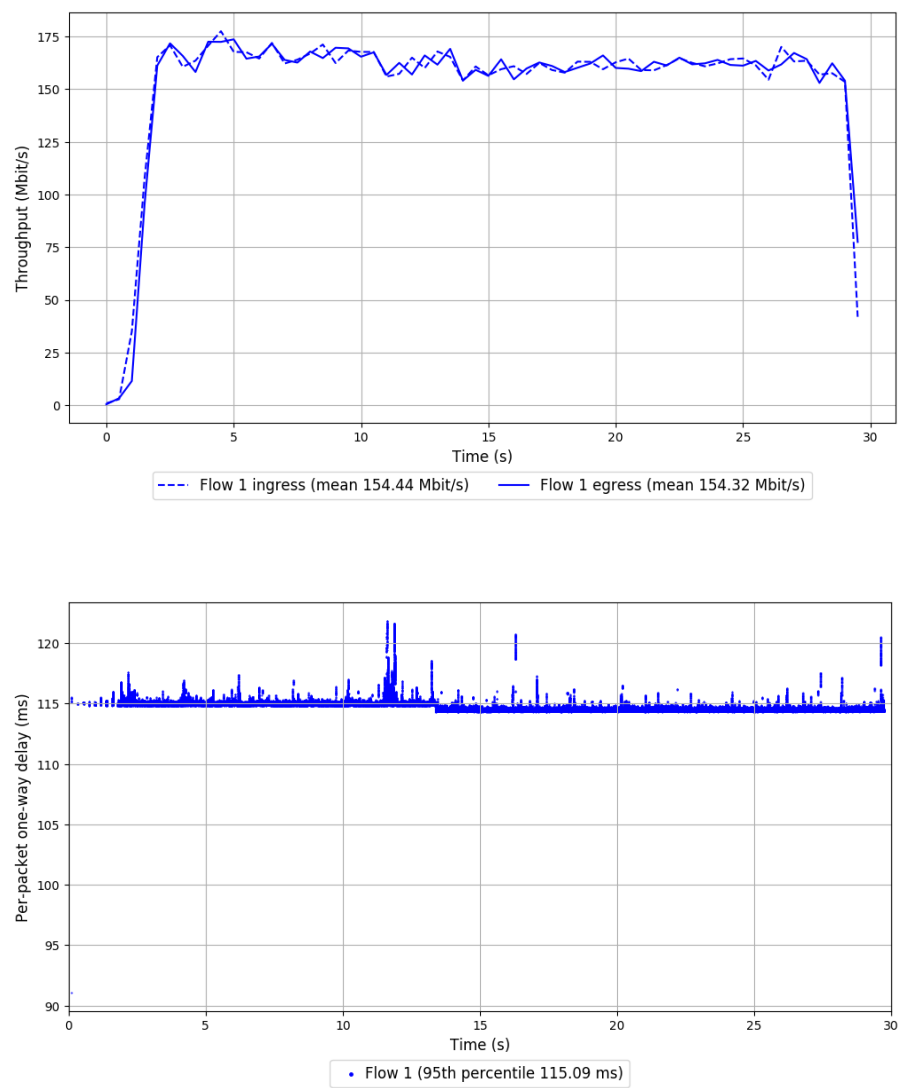
-- Flow 1:

Average throughput: 154.32 Mbit/s

95th percentile per-packet one-way delay: 115.092 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 10:31:46

End at: 2018-02-27 10:32:16

Below is generated by plot.py at 2018-02-27 14:17:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 141.67 Mbit/s

95th percentile per-packet one-way delay: 115.128 ms

Loss rate: 0.00%

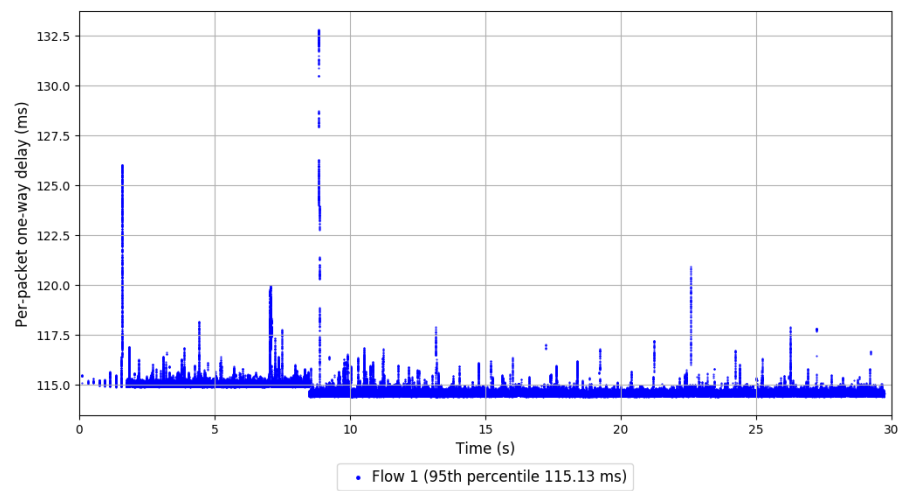
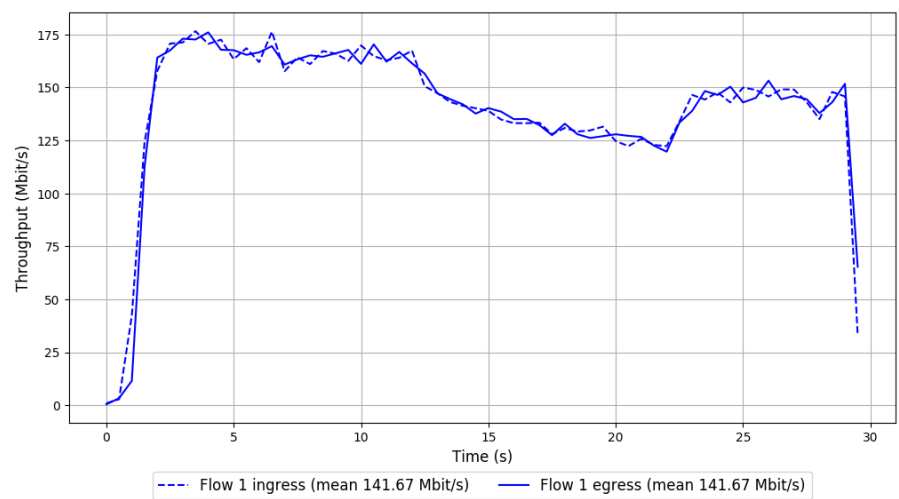
-- Flow 1:

Average throughput: 141.67 Mbit/s

95th percentile per-packet one-way delay: 115.128 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 10:46:35

End at: 2018-02-27 10:47:05

Below is generated by plot.py at 2018-02-27 14:17:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 157.66 Mbit/s

95th percentile per-packet one-way delay: 114.832 ms

Loss rate: 0.00%

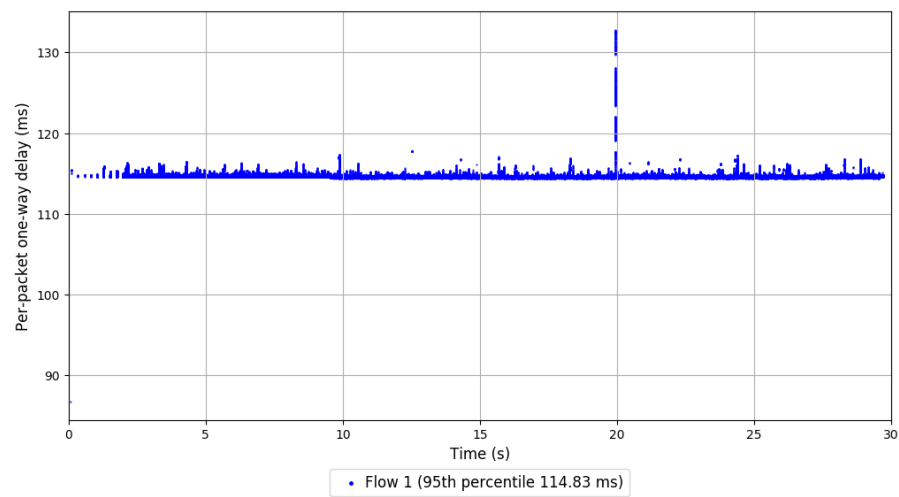
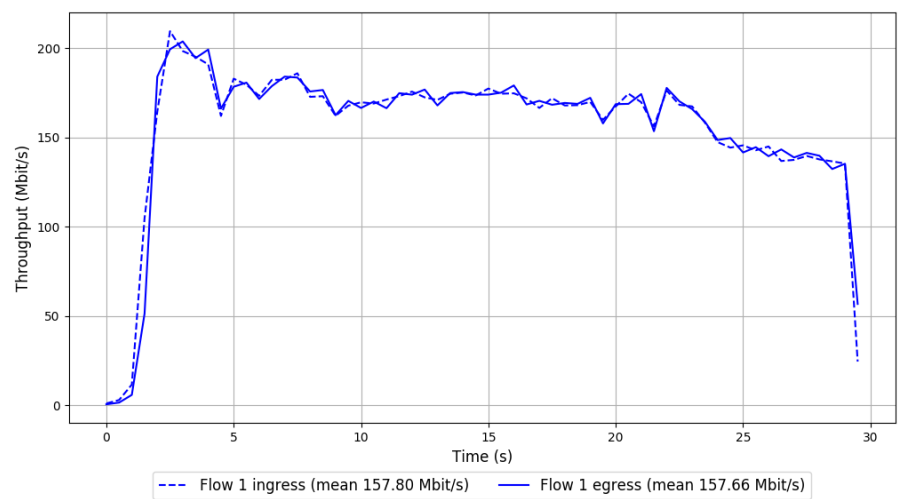
-- Flow 1:

Average throughput: 157.66 Mbit/s

95th percentile per-packet one-way delay: 114.832 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 11:01:31

End at: 2018-02-27 11:02:01

Below is generated by plot.py at 2018-02-27 14:17:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 158.19 Mbit/s

95th percentile per-packet one-way delay: 114.982 ms

Loss rate: 0.00%

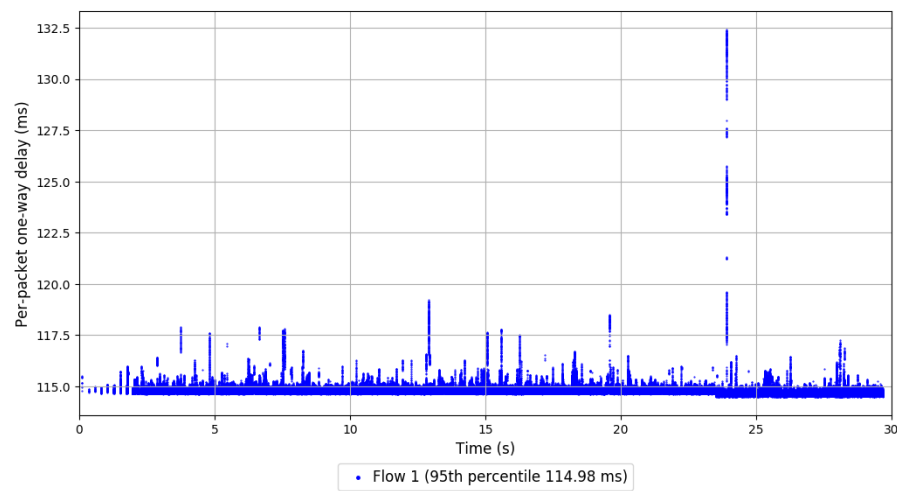
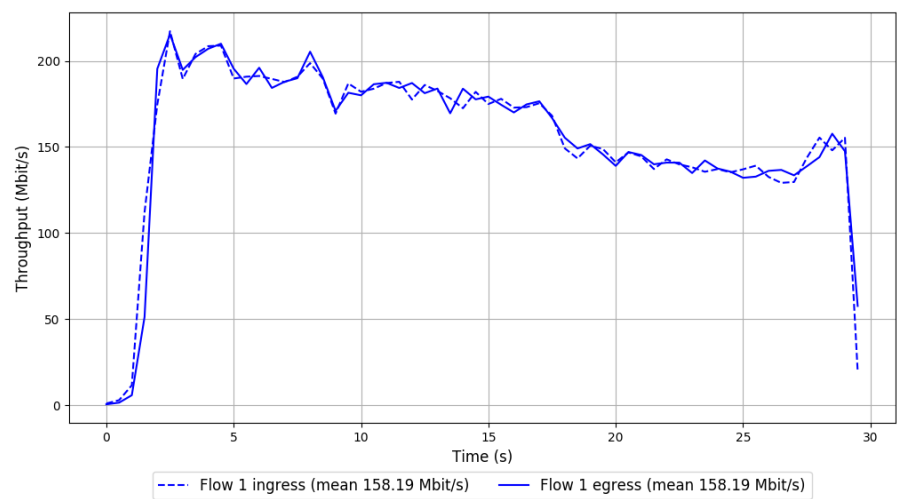
-- Flow 1:

Average throughput: 158.19 Mbit/s

95th percentile per-packet one-way delay: 114.982 ms

Loss rate: 0.00%

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

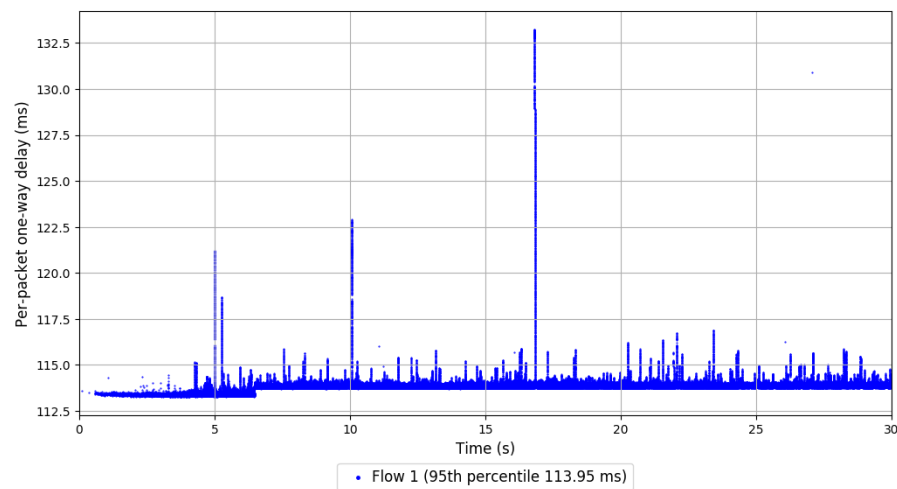
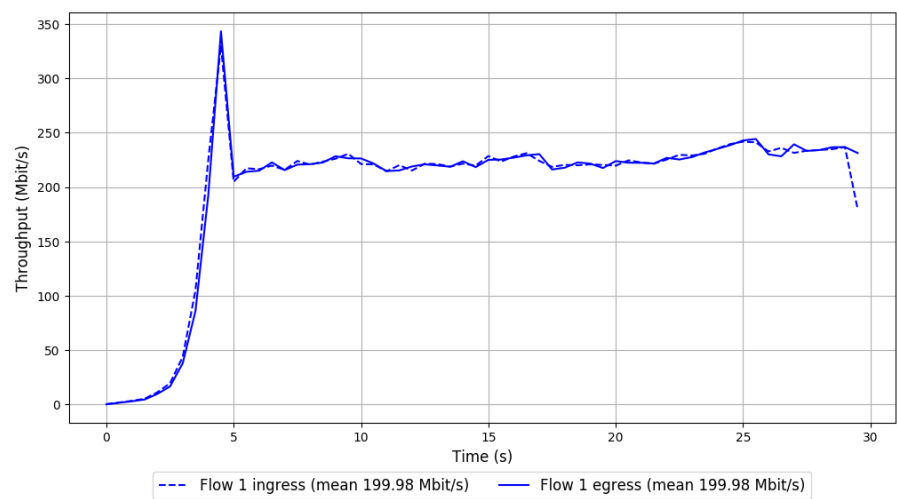


```
Run 1: Statistics of Vivace-latency

Start at: 2018-02-27 08:53:07
End at: 2018-02-27 08:53:37

# Below is generated by plot.py at 2018-02-27 14:17:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 199.98 Mbit/s
95th percentile per-packet one-way delay: 113.952 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 199.98 Mbit/s
95th percentile per-packet one-way delay: 113.952 ms
Loss rate: 0.00%
```


Run 1: Report of Vivace-latency — Data Link



Run 2: Statistics of Vivace-latency

Start at: 2018-02-27 09:07:53

End at: 2018-02-27 09:08:23

Below is generated by plot.py at 2018-02-27 14:17:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 225.55 Mbit/s

95th percentile per-packet one-way delay: 114.086 ms

Loss rate: 0.00%

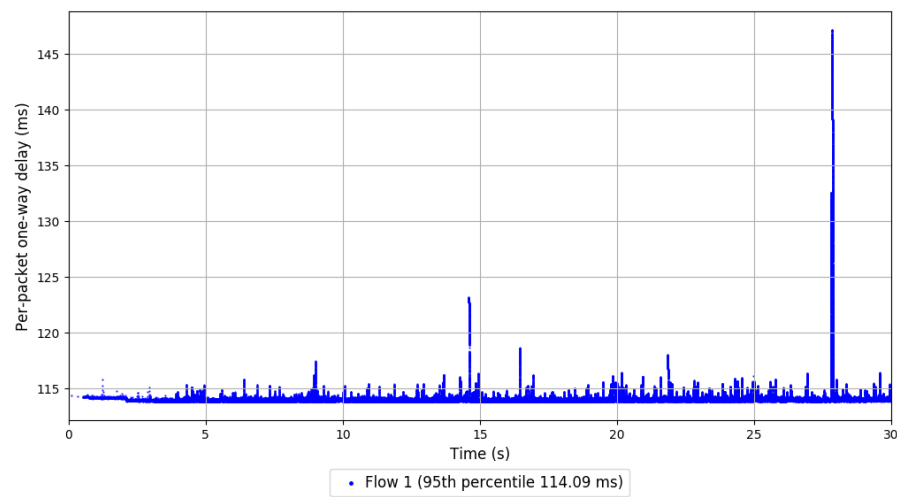
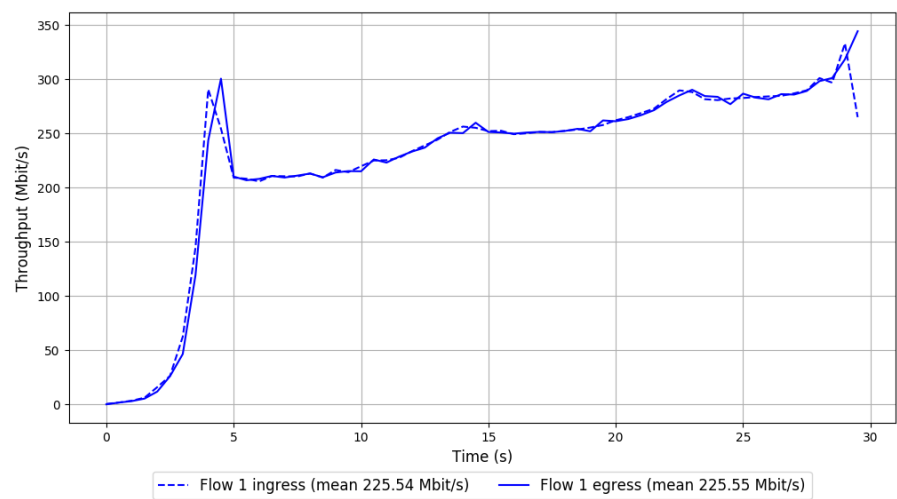
-- Flow 1:

Average throughput: 225.55 Mbit/s

95th percentile per-packet one-way delay: 114.086 ms

Loss rate: 0.00%

Run 2: Report of Vivace-latency — Data Link



Run 3: Statistics of Vivace-latency

Start at: 2018-02-27 09:22:29

End at: 2018-02-27 09:22:59

Below is generated by plot.py at 2018-02-27 14:17:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 219.97 Mbit/s

95th percentile per-packet one-way delay: 114.295 ms

Loss rate: 0.00%

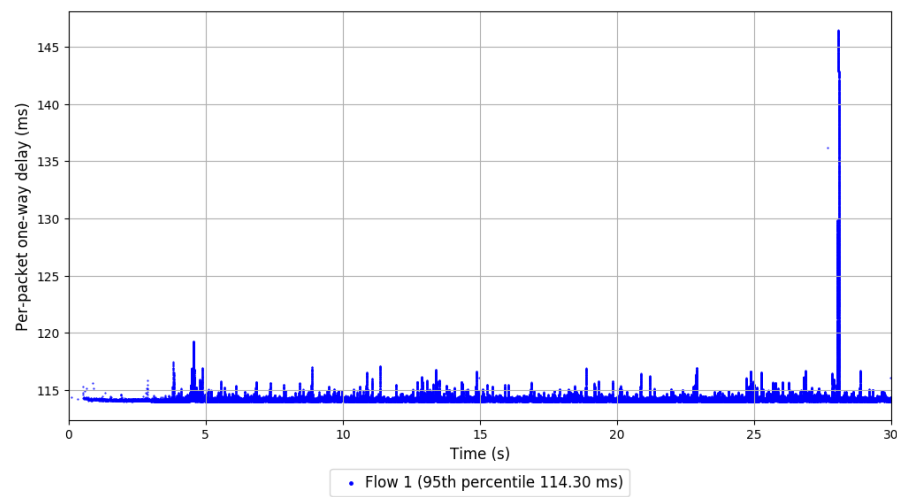
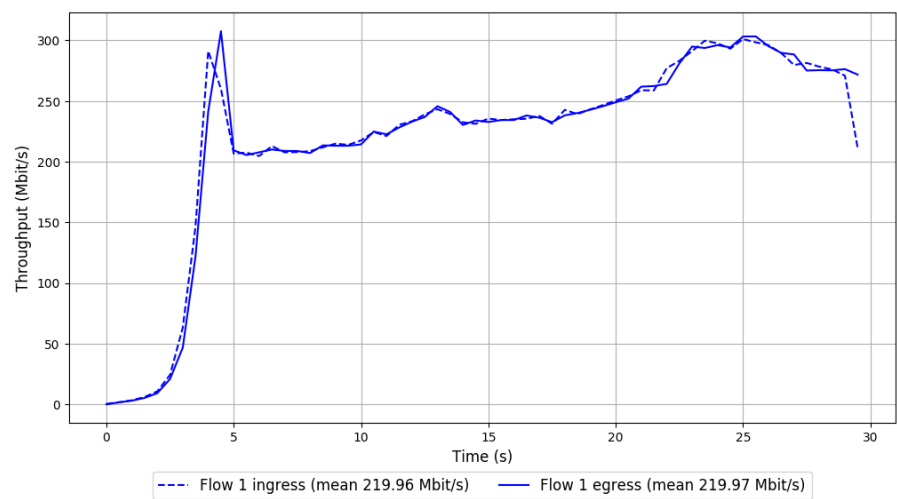
-- Flow 1:

Average throughput: 219.97 Mbit/s

95th percentile per-packet one-way delay: 114.295 ms

Loss rate: 0.00%

Run 3: Report of Vivace-latency — Data Link



Run 4: Statistics of Vivace-latency

Start at: 2018-02-27 09:37:04

End at: 2018-02-27 09:37:34

Below is generated by plot.py at 2018-02-27 14:17:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 233.27 Mbit/s

95th percentile per-packet one-way delay: 114.561 ms

Loss rate: 0.00%

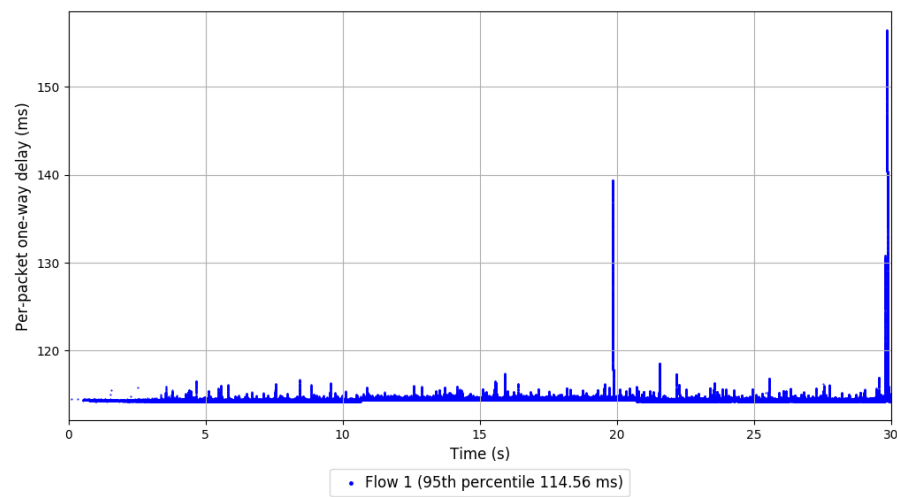
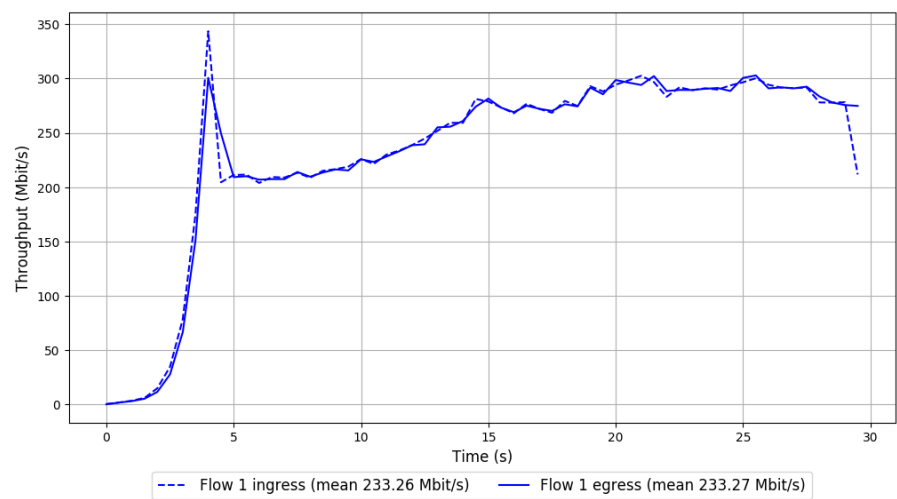
-- Flow 1:

Average throughput: 233.27 Mbit/s

95th percentile per-packet one-way delay: 114.561 ms

Loss rate: 0.00%

Run 4: Report of Vivace-latency — Data Link



Run 5: Statistics of Vivace-latency

Start at: 2018-02-27 09:51:55

End at: 2018-02-27 09:52:25

Below is generated by plot.py at 2018-02-27 14:17:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 229.54 Mbit/s

95th percentile per-packet one-way delay: 87.335 ms

Loss rate: 0.00%

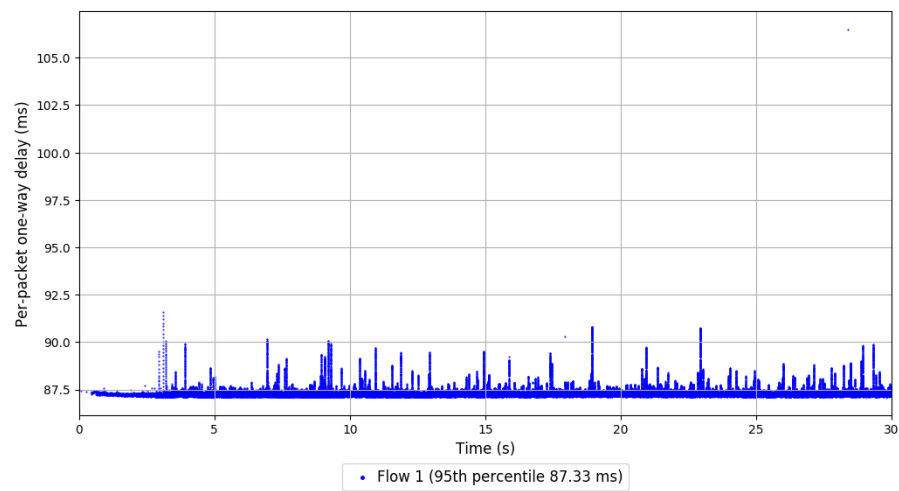
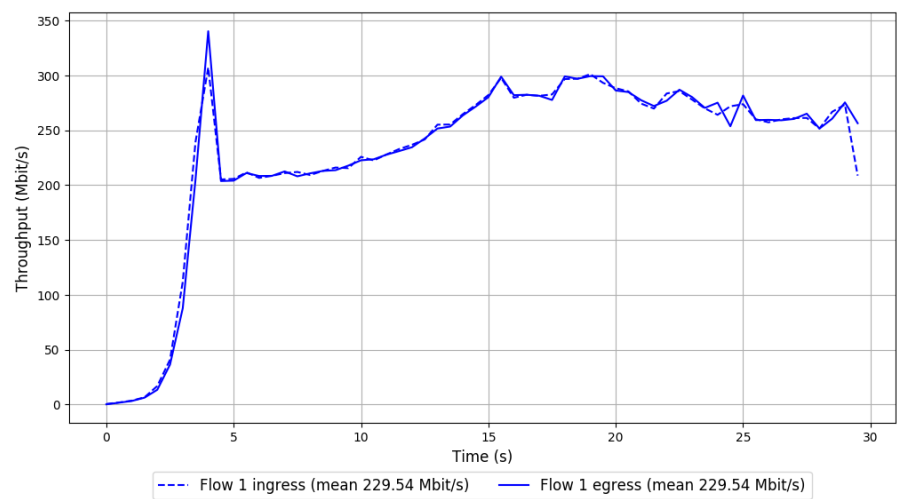
-- Flow 1:

Average throughput: 229.54 Mbit/s

95th percentile per-packet one-way delay: 87.335 ms

Loss rate: 0.00%

Run 5: Report of Vivace-latency — Data Link



Run 6: Statistics of Vivace-latency

Start at: 2018-02-27 10:06:34

End at: 2018-02-27 10:07:04

Below is generated by plot.py at 2018-02-27 14:17:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 240.30 Mbit/s

95th percentile per-packet one-way delay: 114.849 ms

Loss rate: 0.00%

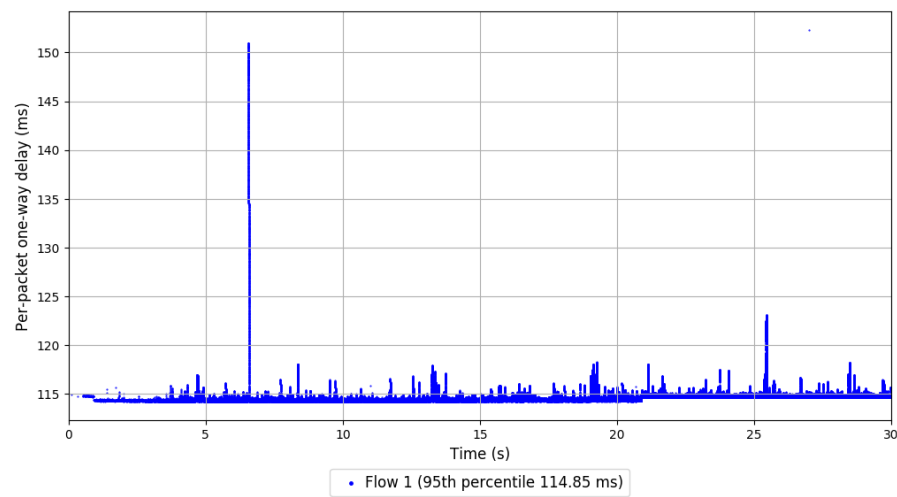
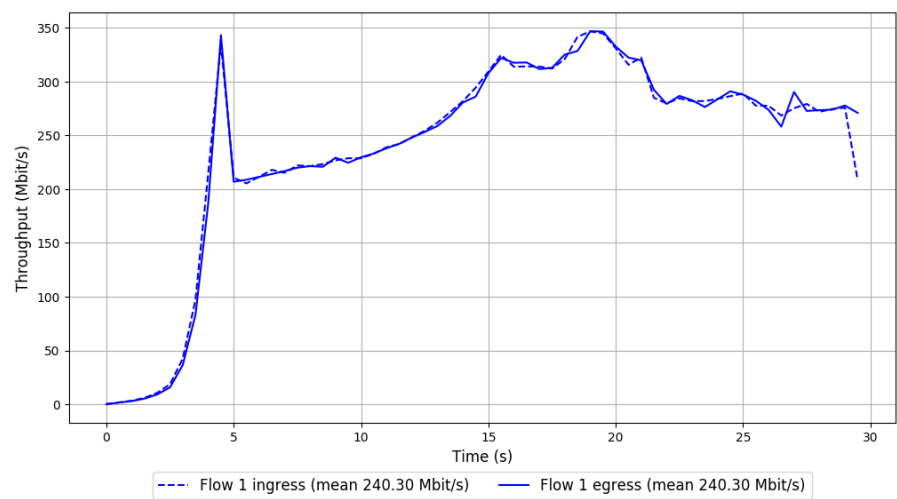
-- Flow 1:

Average throughput: 240.30 Mbit/s

95th percentile per-packet one-way delay: 114.849 ms

Loss rate: 0.00%

Run 6: Report of Vivace-latency — Data Link



Run 7: Statistics of Vivace-latency

Start at: 2018-02-27 10:21:21

End at: 2018-02-27 10:21:51

Below is generated by plot.py at 2018-02-27 14:17:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 200.51 Mbit/s

95th percentile per-packet one-way delay: 114.690 ms

Loss rate: 0.02%

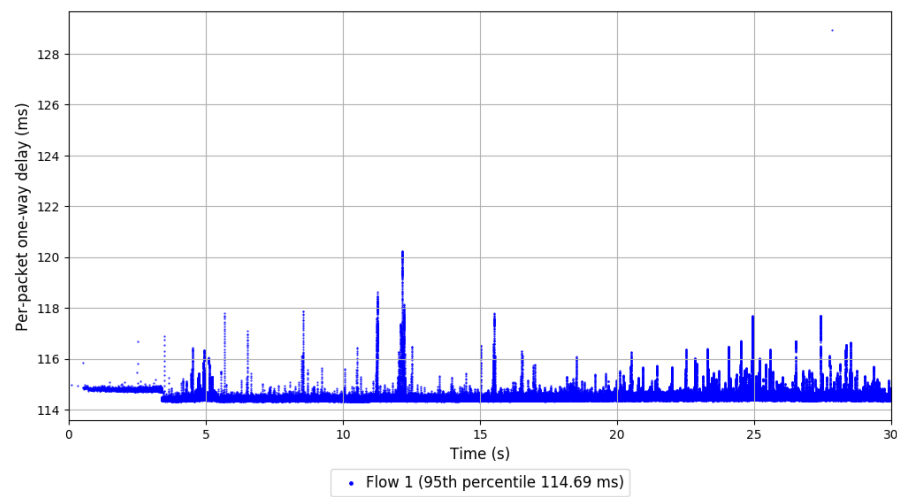
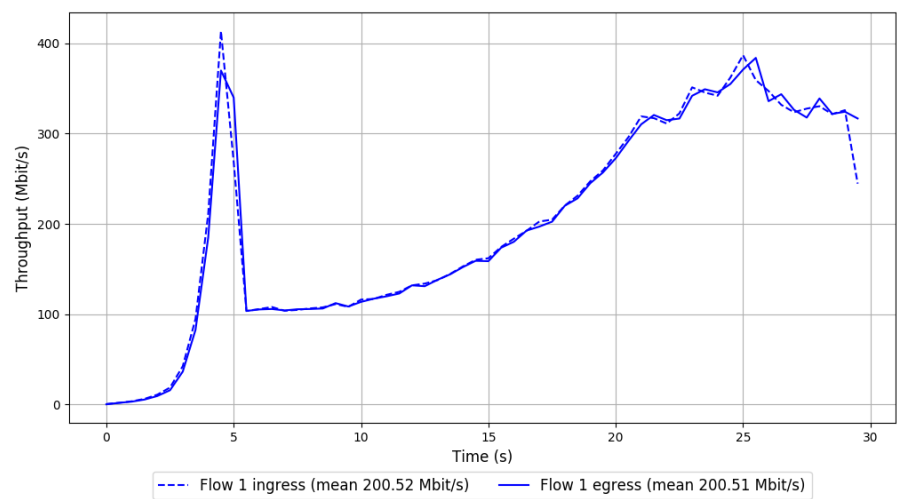
-- Flow 1:

Average throughput: 200.51 Mbit/s

95th percentile per-packet one-way delay: 114.690 ms

Loss rate: 0.02%

Run 7: Report of Vivace-latency — Data Link



Run 8: Statistics of Vivace-latency

Start at: 2018-02-27 10:36:34

End at: 2018-02-27 10:37:04

Below is generated by plot.py at 2018-02-27 14:17:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 250.76 Mbit/s

95th percentile per-packet one-way delay: 116.004 ms

Loss rate: 0.12%

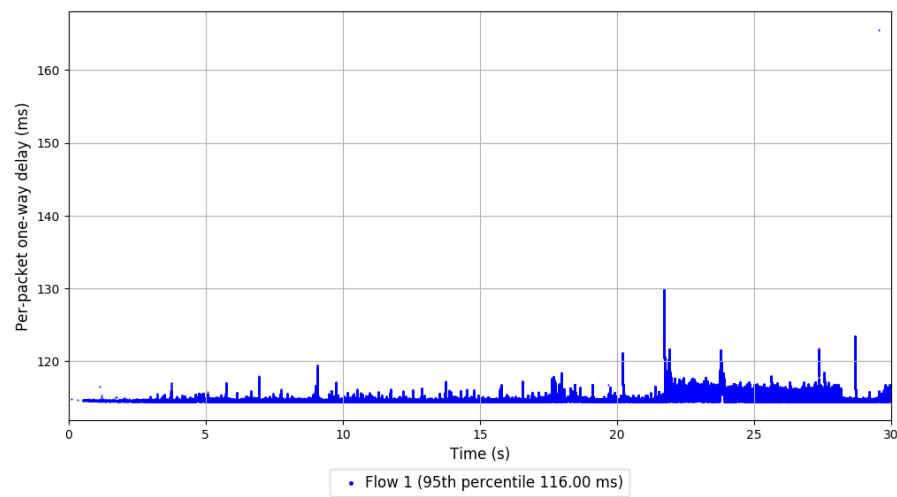
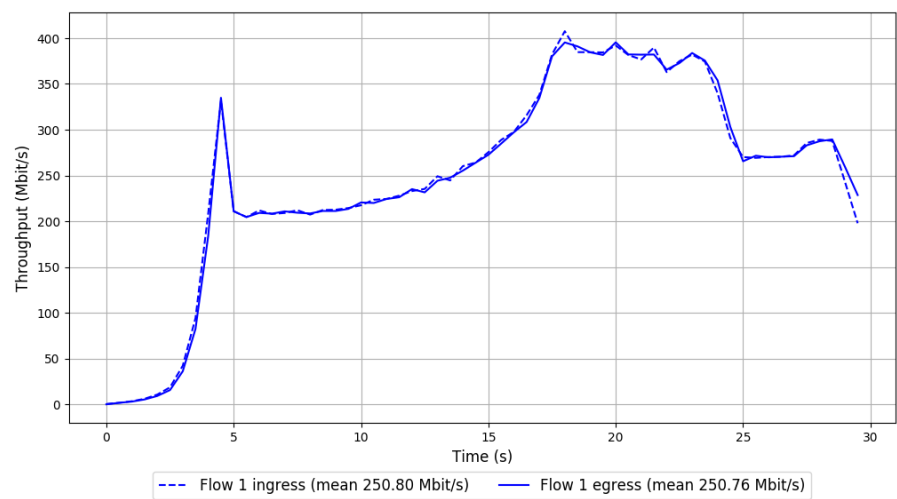
-- Flow 1:

Average throughput: 250.76 Mbit/s

95th percentile per-packet one-way delay: 116.004 ms

Loss rate: 0.12%

Run 8: Report of Vivace-latency — Data Link



Run 9: Statistics of Vivace-latency

Start at: 2018-02-27 10:51:15

End at: 2018-02-27 10:51:45

Below is generated by plot.py at 2018-02-27 14:17:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 233.52 Mbit/s

95th percentile per-packet one-way delay: 115.725 ms

Loss rate: 0.01%

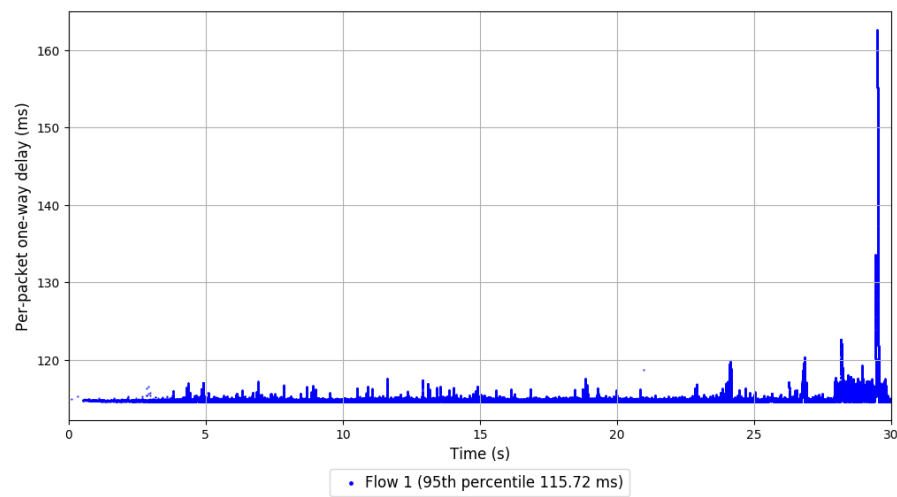
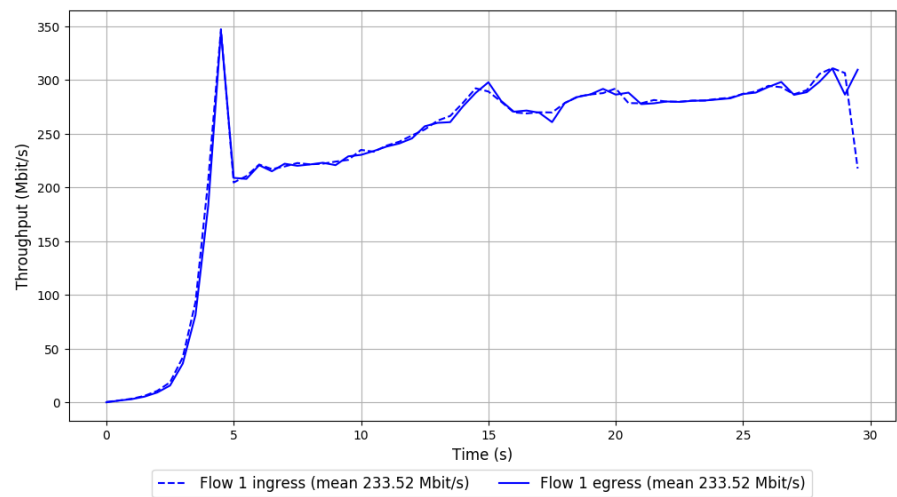
-- Flow 1:

Average throughput: 233.52 Mbit/s

95th percentile per-packet one-way delay: 115.725 ms

Loss rate: 0.01%

Run 9: Report of Vivace-latency — Data Link



Run 10: Statistics of Vivace-latency

Start at: 2018-02-27 11:06:08

End at: 2018-02-27 11:06:38

Below is generated by plot.py at 2018-02-27 14:17:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 222.64 Mbit/s

95th percentile per-packet one-way delay: 115.729 ms

Loss rate: 0.00%

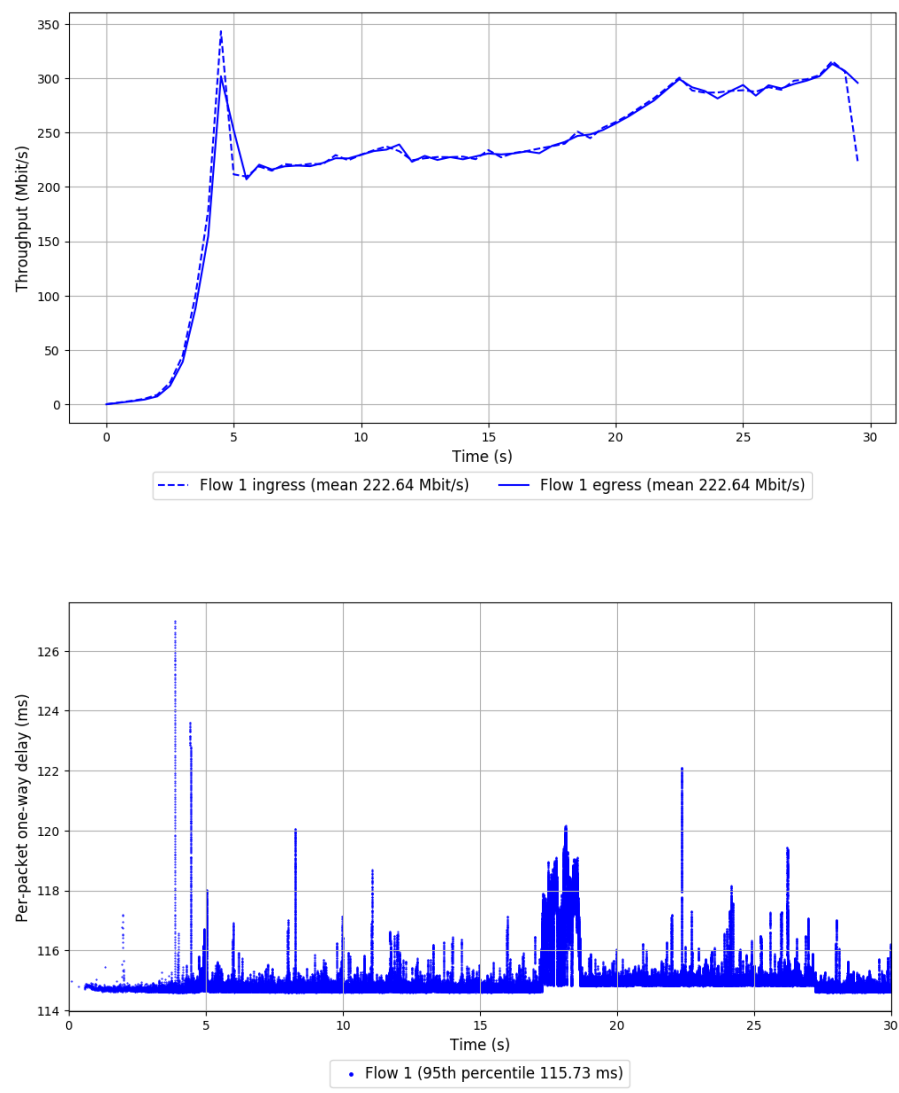
-- Flow 1:

Average throughput: 222.64 Mbit/s

95th percentile per-packet one-way delay: 115.729 ms

Loss rate: 0.00%

Run 10: Report of Vivace-latency — Data Link

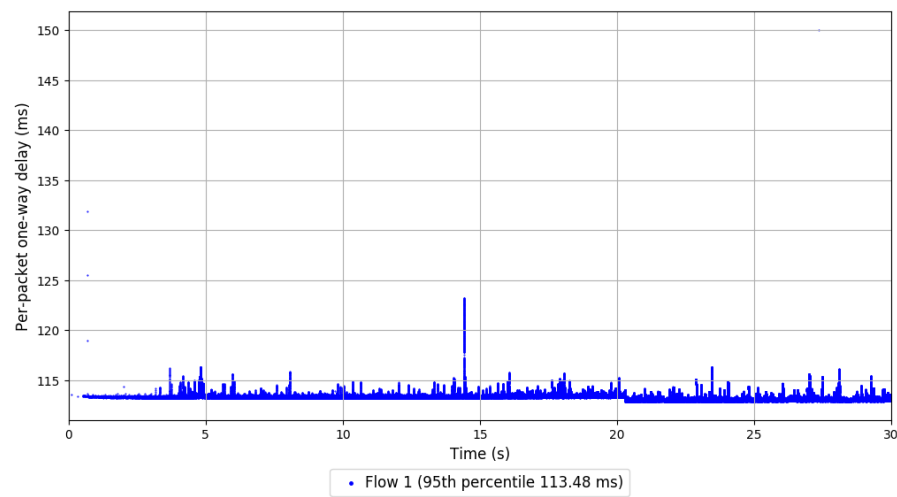
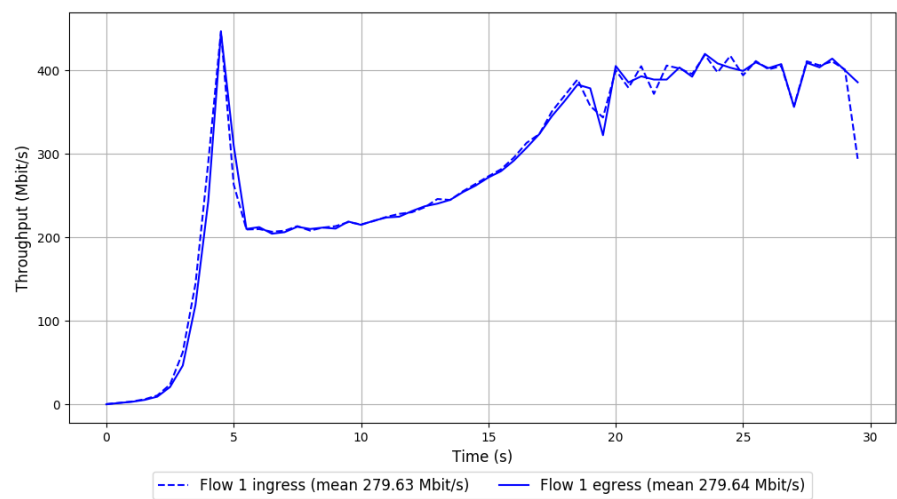


```
Run 1: Statistics of Vivace-loss

Start at: 2018-02-27 08:46:24
End at: 2018-02-27 08:46:54

# Below is generated by plot.py at 2018-02-27 14:17:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 279.64 Mbit/s
95th percentile per-packet one-way delay: 113.477 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 279.64 Mbit/s
95th percentile per-packet one-way delay: 113.477 ms
Loss rate: 0.00%
```

Run 1: Report of Vivace-loss — Data Link



Run 2: Statistics of Vivace-loss

Start at: 2018-02-27 09:01:31

End at: 2018-02-27 09:02:01

Below is generated by plot.py at 2018-02-27 14:17:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 273.68 Mbit/s

95th percentile per-packet one-way delay: 114.088 ms

Loss rate: 0.00%

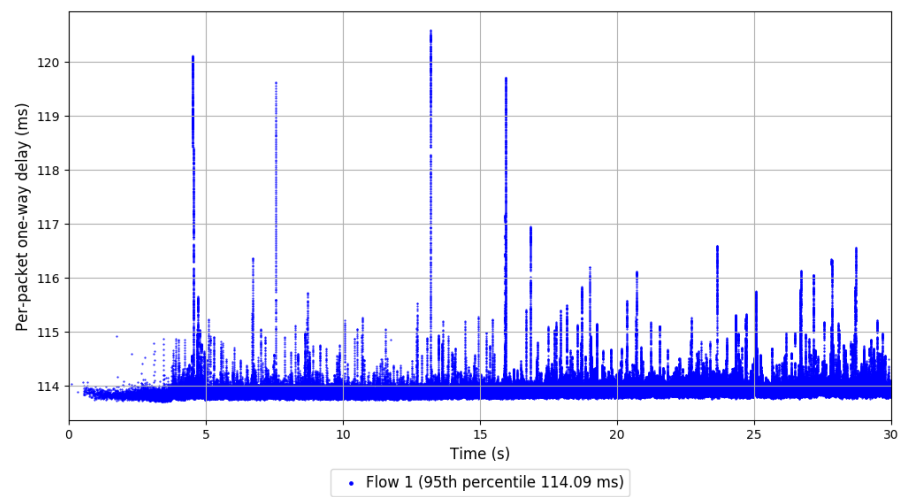
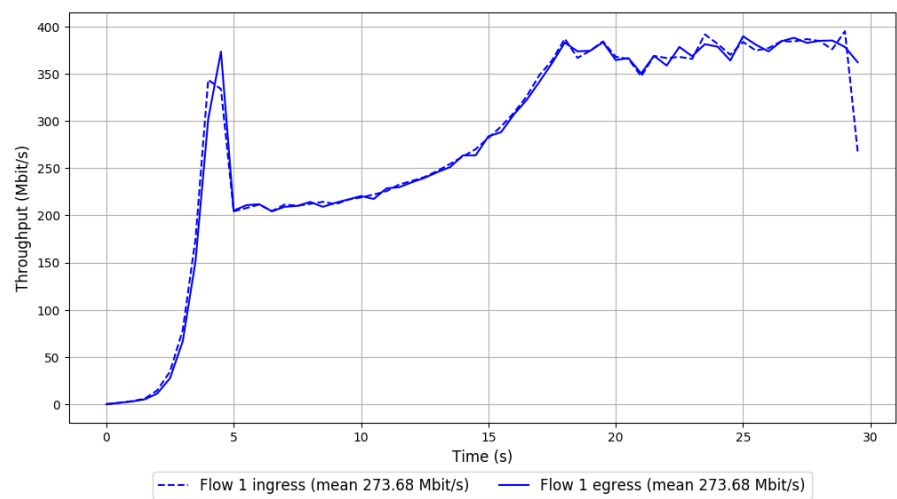
-- Flow 1:

Average throughput: 273.68 Mbit/s

95th percentile per-packet one-way delay: 114.088 ms

Loss rate: 0.00%

Run 2: Report of Vivace-loss — Data Link



Run 3: Statistics of Vivace-loss

Start at: 2018-02-27 09:16:09

End at: 2018-02-27 09:16:39

Below is generated by plot.py at 2018-02-27 14:17:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 191.46 Mbit/s

95th percentile per-packet one-way delay: 114.449 ms

Loss rate: 0.00%

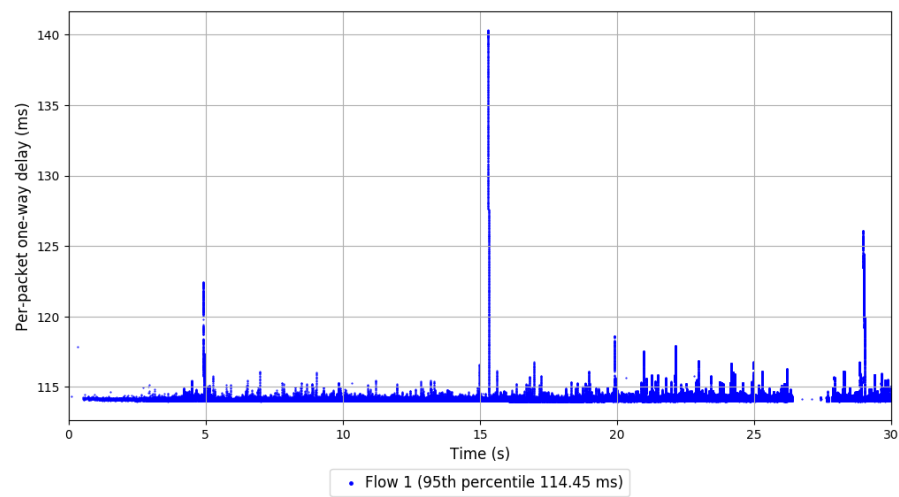
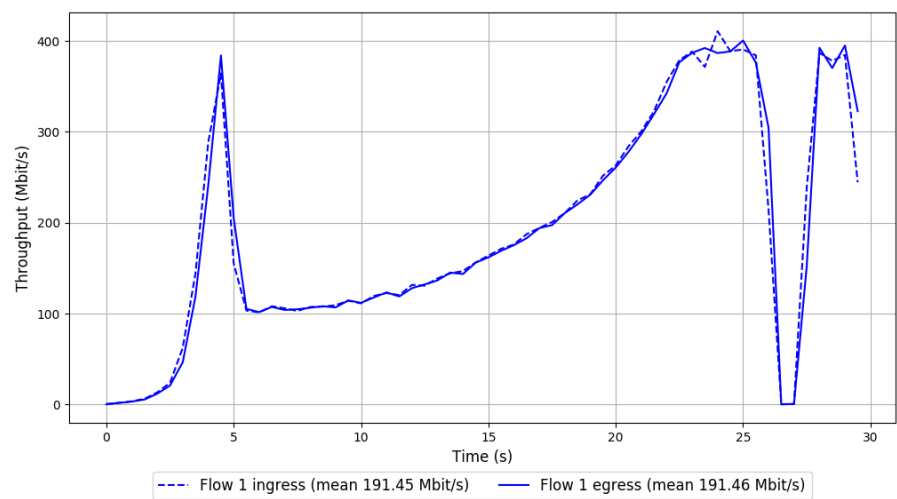
-- Flow 1:

Average throughput: 191.46 Mbit/s

95th percentile per-packet one-way delay: 114.449 ms

Loss rate: 0.00%

Run 3: Report of Vivace-loss — Data Link



Run 4: Statistics of Vivace-loss

Start at: 2018-02-27 09:30:40

End at: 2018-02-27 09:31:10

Below is generated by plot.py at 2018-02-27 14:18:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 256.07 Mbit/s

95th percentile per-packet one-way delay: 86.981 ms

Loss rate: 0.00%

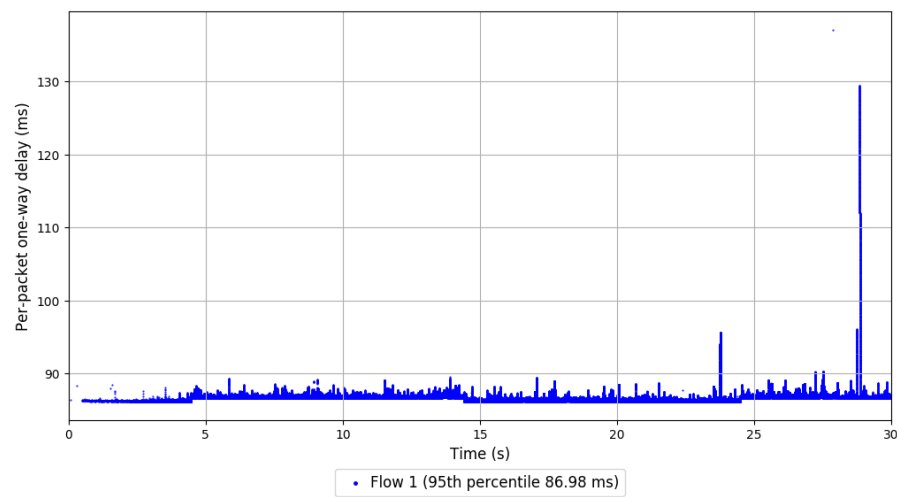
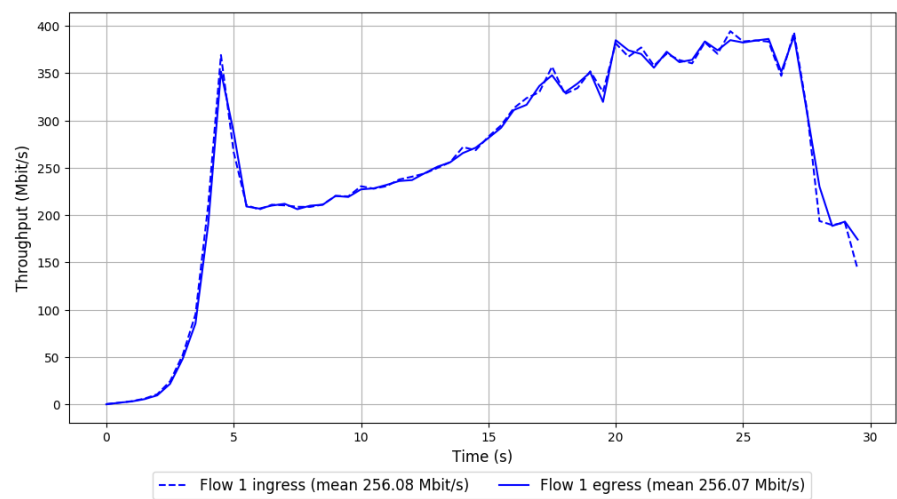
-- Flow 1:

Average throughput: 256.07 Mbit/s

95th percentile per-packet one-way delay: 86.981 ms

Loss rate: 0.00%

Run 4: Report of Vivace-loss — Data Link



Run 5: Statistics of Vivace-loss

Start at: 2018-02-27 09:45:16

End at: 2018-02-27 09:45:46

Below is generated by plot.py at 2018-02-27 14:23:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 342.13 Mbit/s

95th percentile per-packet one-way delay: 161.953 ms

Loss rate: 0.21%

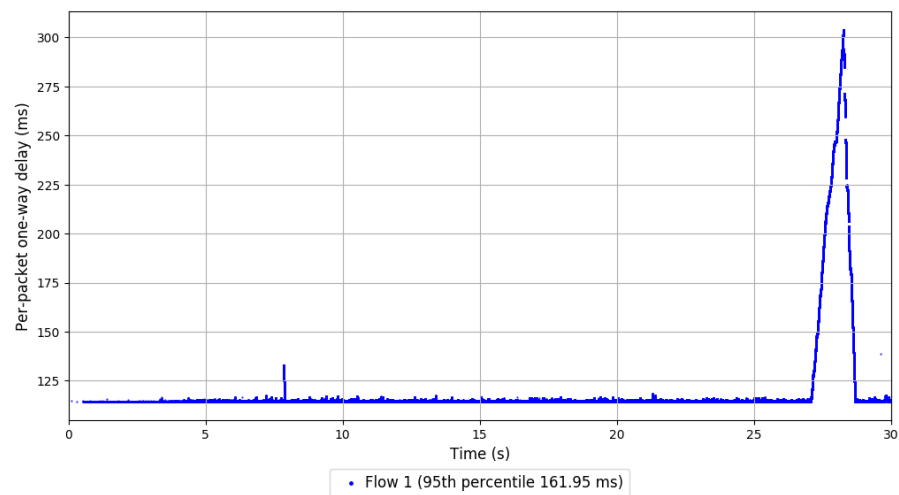
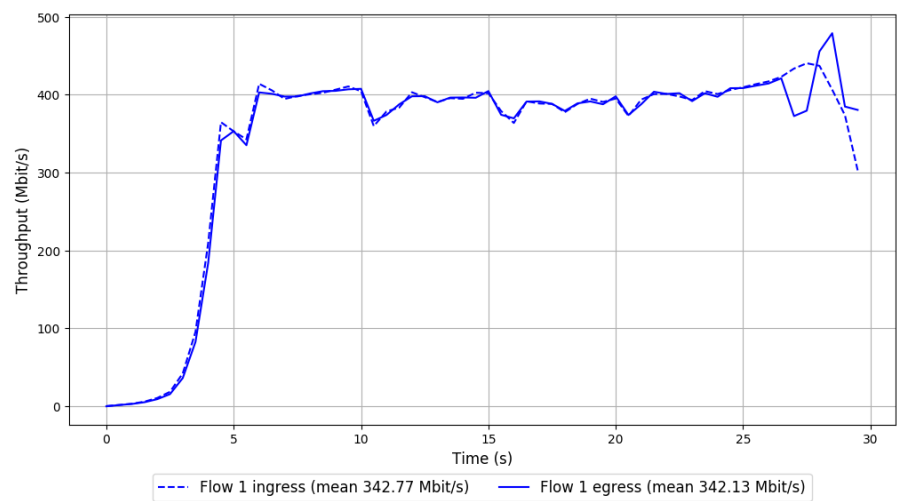
-- Flow 1:

Average throughput: 342.13 Mbit/s

95th percentile per-packet one-way delay: 161.953 ms

Loss rate: 0.21%

Run 5: Report of Vivace-loss — Data Link



Run 6: Statistics of Vivace-loss

Start at: 2018-02-27 10:00:09

End at: 2018-02-27 10:00:39

Below is generated by plot.py at 2018-02-27 14:23:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 254.76 Mbit/s

95th percentile per-packet one-way delay: 90.941 ms

Loss rate: 0.00%

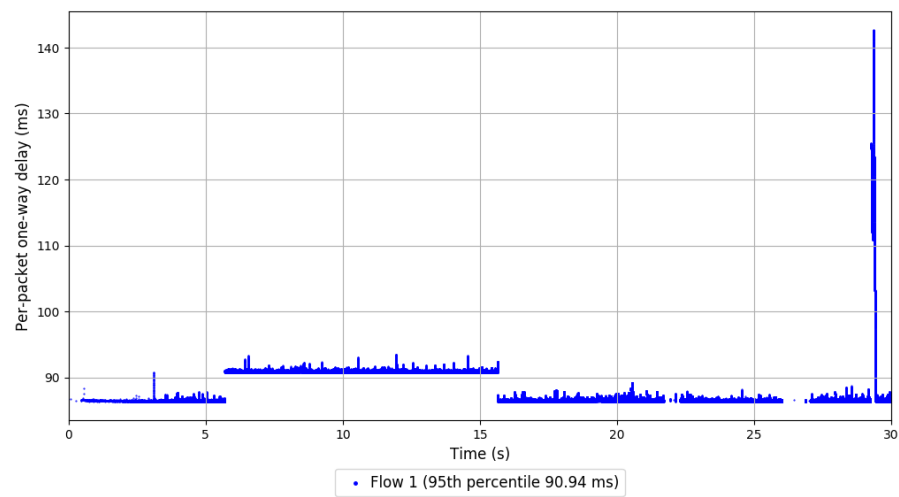
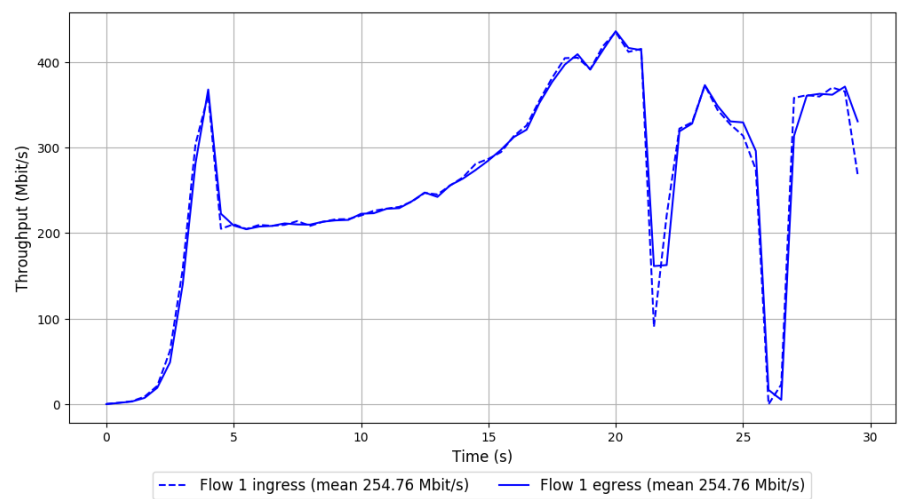
-- Flow 1:

Average throughput: 254.76 Mbit/s

95th percentile per-packet one-way delay: 90.941 ms

Loss rate: 0.00%

Run 6: Report of Vivace-loss — Data Link



Run 7: Statistics of Vivace-loss

Start at: 2018-02-27 10:14:55

End at: 2018-02-27 10:15:25

Below is generated by plot.py at 2018-02-27 14:23:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 199.58 Mbit/s

95th percentile per-packet one-way delay: 86.731 ms

Loss rate: 0.00%

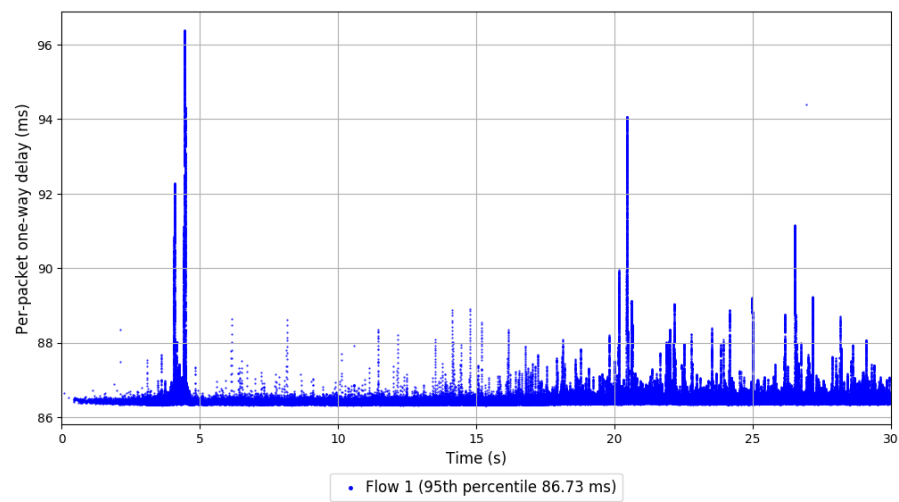
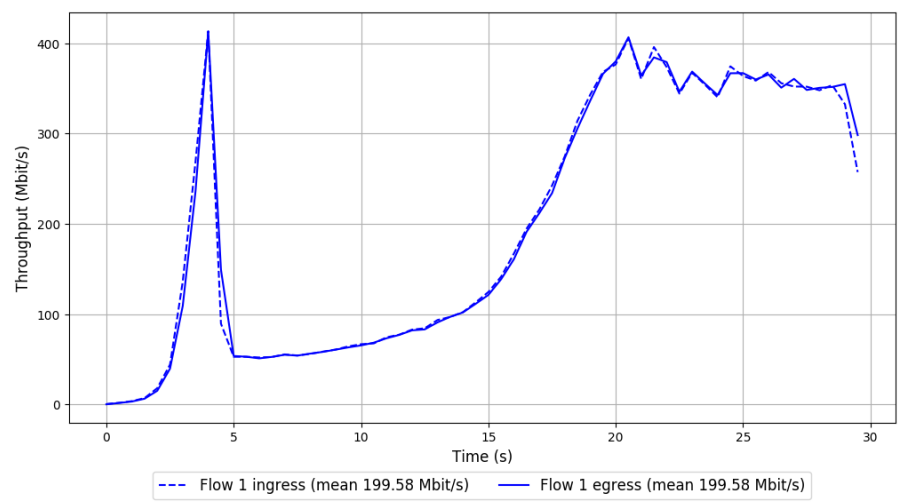
-- Flow 1:

Average throughput: 199.58 Mbit/s

95th percentile per-packet one-way delay: 86.731 ms

Loss rate: 0.00%

Run 7: Report of Vivace-loss — Data Link



Run 8: Statistics of Vivace-loss

Start at: 2018-02-27 10:29:47

End at: 2018-02-27 10:30:17

Below is generated by plot.py at 2018-02-27 14:23:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 275.78 Mbit/s

95th percentile per-packet one-way delay: 115.373 ms

Loss rate: 0.02%

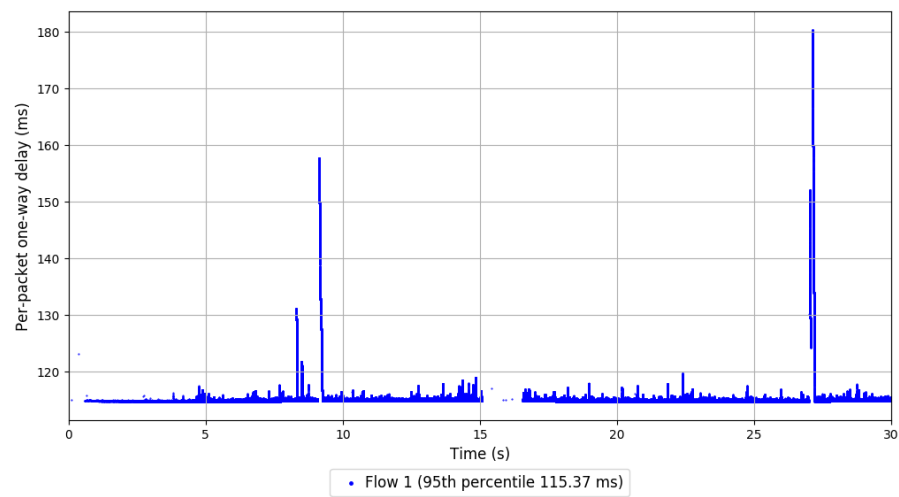
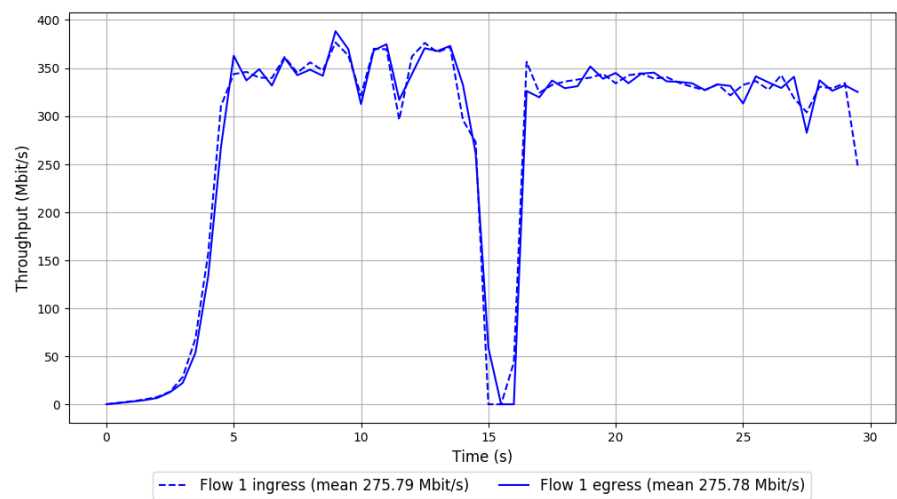
-- Flow 1:

Average throughput: 275.78 Mbit/s

95th percentile per-packet one-way delay: 115.373 ms

Loss rate: 0.02%

Run 8: Report of Vivace-loss — Data Link



Run 9: Statistics of Vivace-loss

Start at: 2018-02-27 10:44:56

End at: 2018-02-27 10:45:26

Below is generated by plot.py at 2018-02-27 14:23:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 241.68 Mbit/s

95th percentile per-packet one-way delay: 87.475 ms

Loss rate: 0.00%

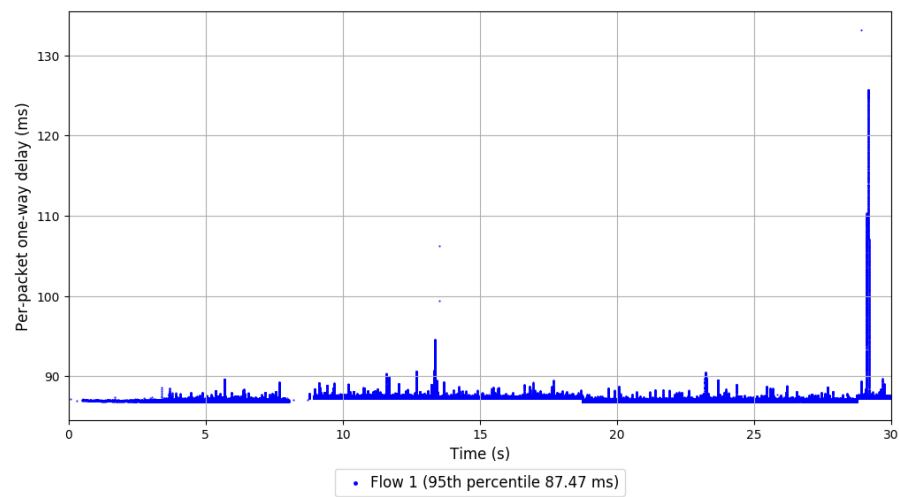
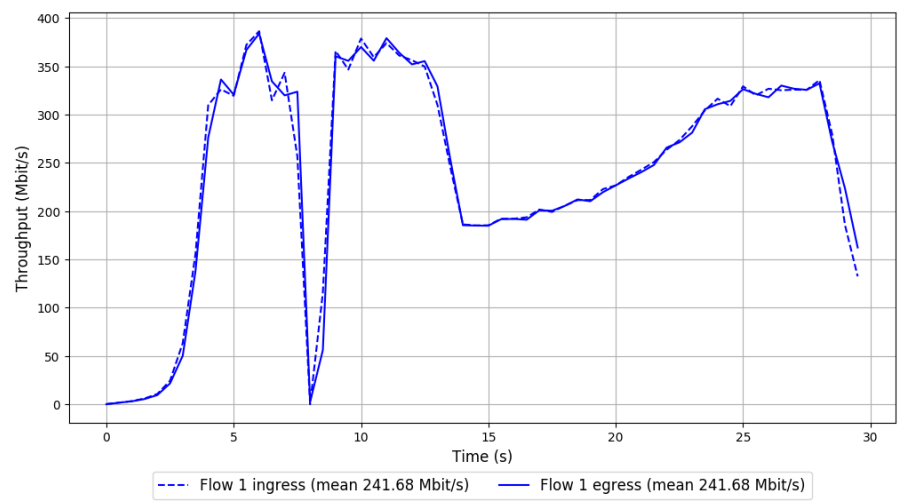
-- Flow 1:

Average throughput: 241.68 Mbit/s

95th percentile per-packet one-way delay: 87.475 ms

Loss rate: 0.00%

Run 9: Report of Vivace-loss — Data Link



Run 10: Statistics of Vivace-loss

Start at: 2018-02-27 10:59:35

End at: 2018-02-27 11:00:05

Below is generated by plot.py at 2018-02-27 14:23:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 179.25 Mbit/s

95th percentile per-packet one-way delay: 115.040 ms

Loss rate: 0.00%

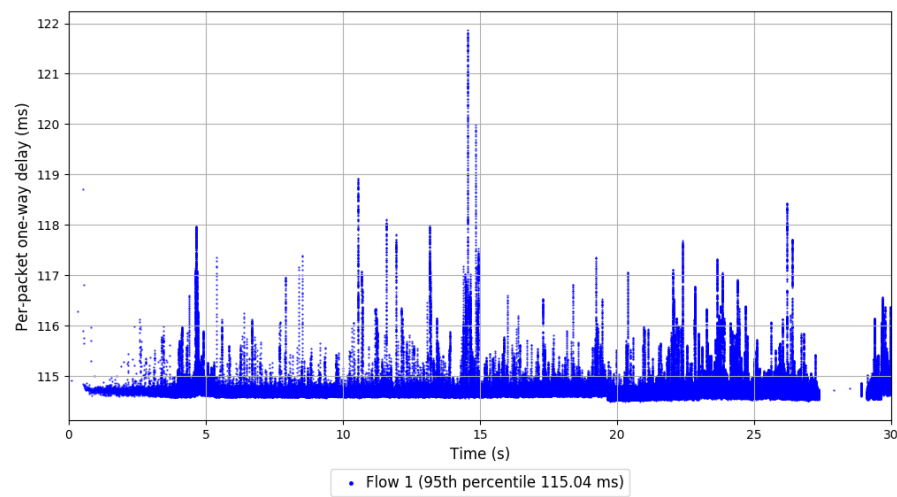
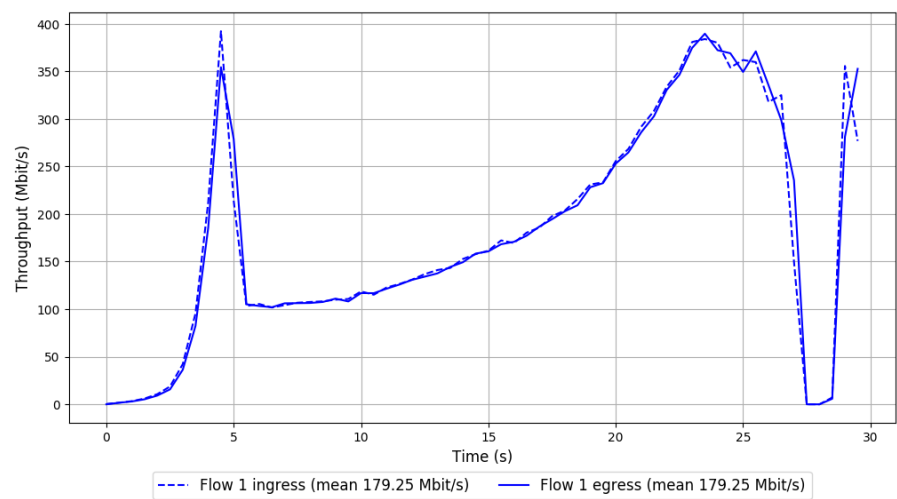
-- Flow 1:

Average throughput: 179.25 Mbit/s

95th percentile per-packet one-way delay: 115.040 ms

Loss rate: 0.00%

Run 10: Report of Vivace-loss — Data Link

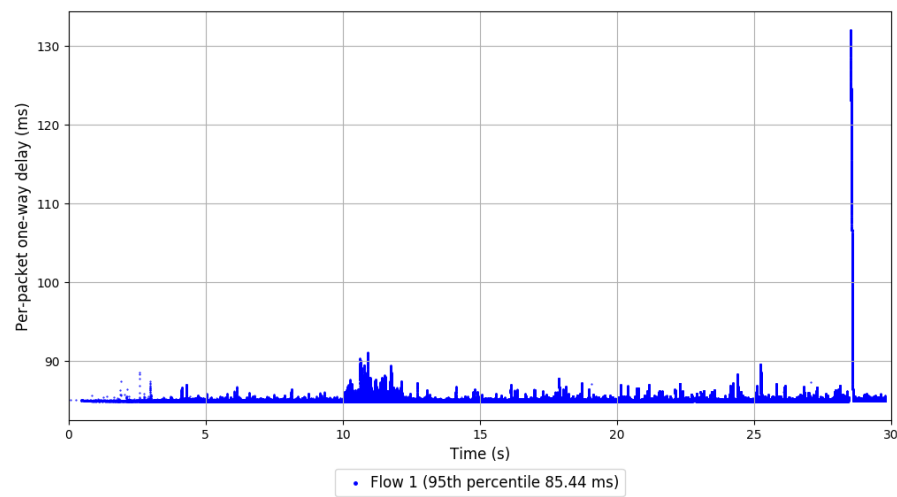
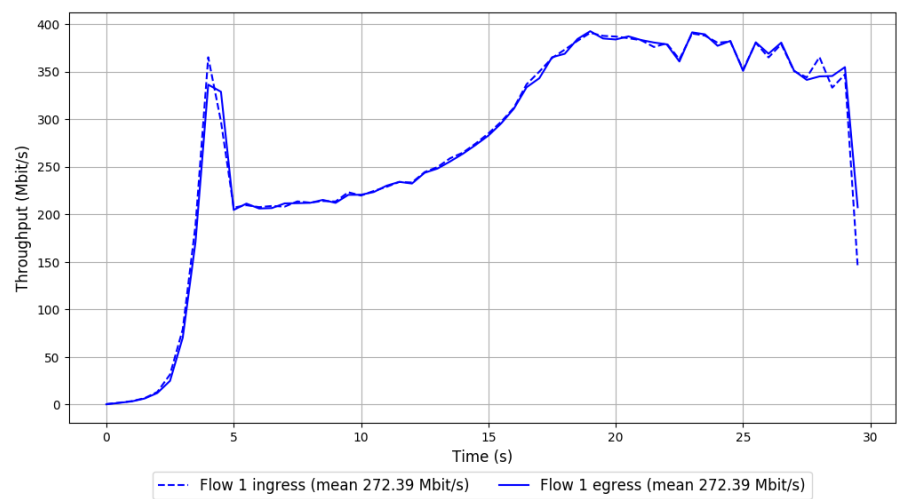


```
Run 1: Statistics of Vivace-LTE

Start at: 2018-02-27 08:40:35
End at: 2018-02-27 08:41:05

# Below is generated by plot.py at 2018-02-27 14:24:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 272.39 Mbit/s
95th percentile per-packet one-way delay: 85.436 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 272.39 Mbit/s
95th percentile per-packet one-way delay: 85.436 ms
Loss rate: 0.00%
```


Run 1: Report of Vivace-LTE — Data Link



Run 2: Statistics of Vivace-LTE

Start at: 2018-02-27 08:55:41

End at: 2018-02-27 08:56:11

Below is generated by plot.py at 2018-02-27 14:26:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 254.43 Mbit/s

95th percentile per-packet one-way delay: 115.093 ms

Loss rate: 0.01%

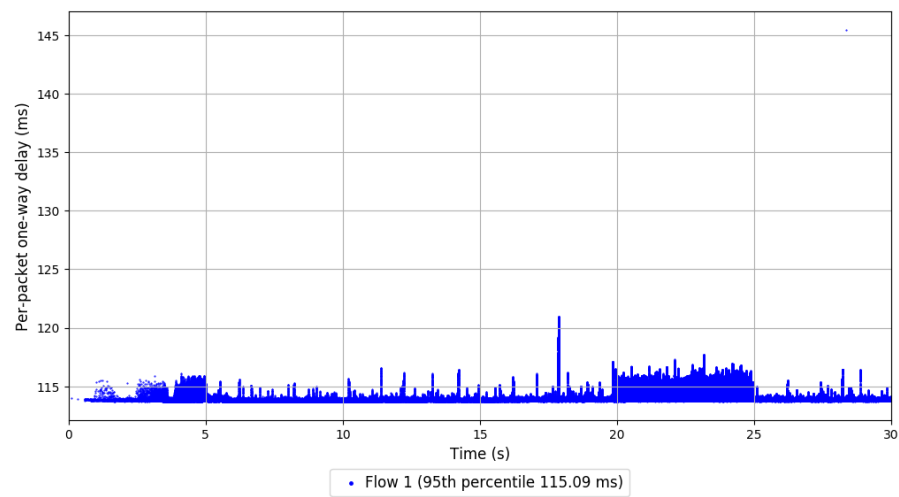
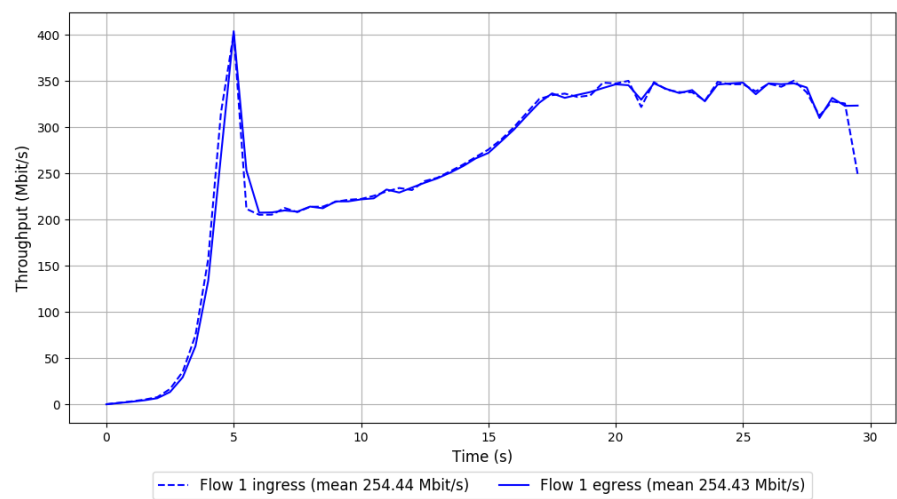
-- Flow 1:

Average throughput: 254.43 Mbit/s

95th percentile per-packet one-way delay: 115.093 ms

Loss rate: 0.01%

Run 2: Report of Vivace-LTE — Data Link



Run 3: Statistics of Vivace-LTE

Start at: 2018-02-27 09:10:27

End at: 2018-02-27 09:10:57

Below is generated by plot.py at 2018-02-27 14:27:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 252.14 Mbit/s

95th percentile per-packet one-way delay: 114.289 ms

Loss rate: 0.00%

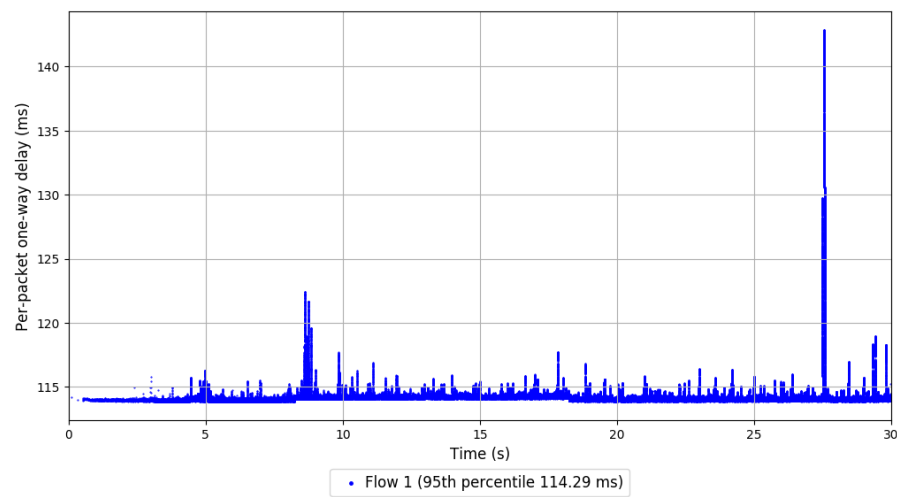
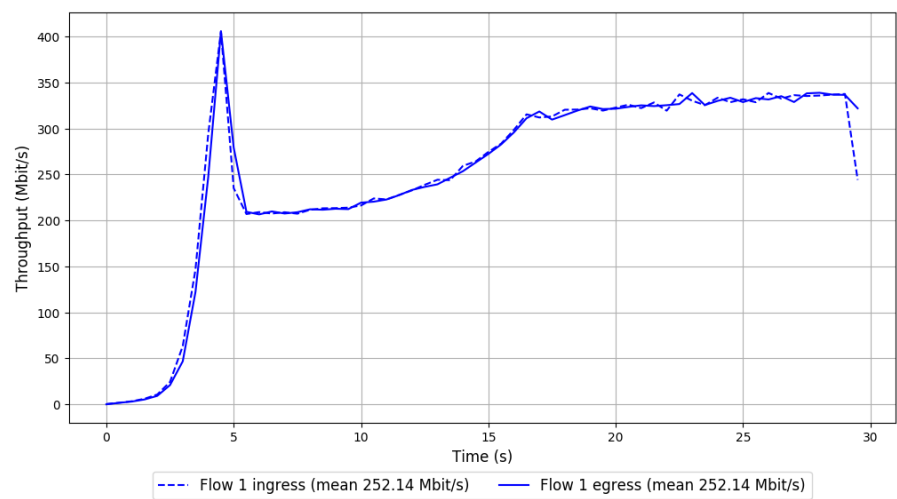
-- Flow 1:

Average throughput: 252.14 Mbit/s

95th percentile per-packet one-way delay: 114.289 ms

Loss rate: 0.00%

Run 3: Report of Vivace-LTE — Data Link



Run 4: Statistics of Vivace-LTE

Start at: 2018-02-27 09:25:02

End at: 2018-02-27 09:25:32

Below is generated by plot.py at 2018-02-27 14:27:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 232.73 Mbit/s

95th percentile per-packet one-way delay: 114.513 ms

Loss rate: 0.01%

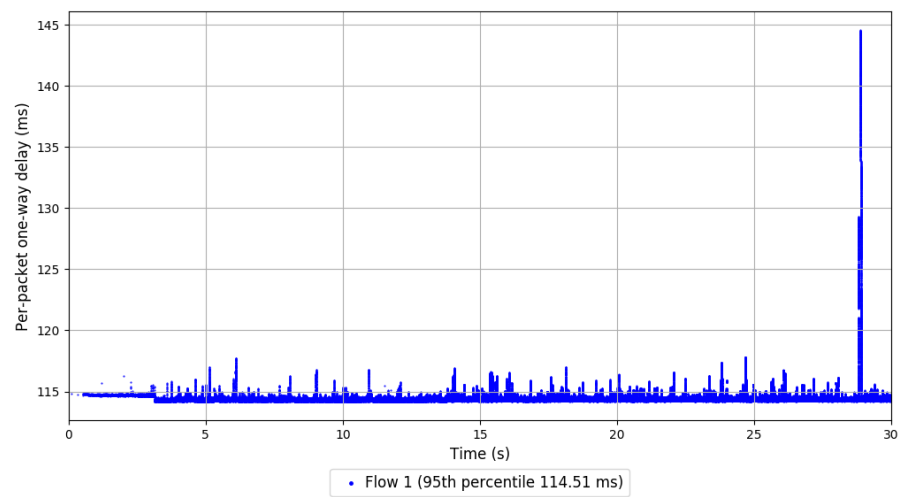
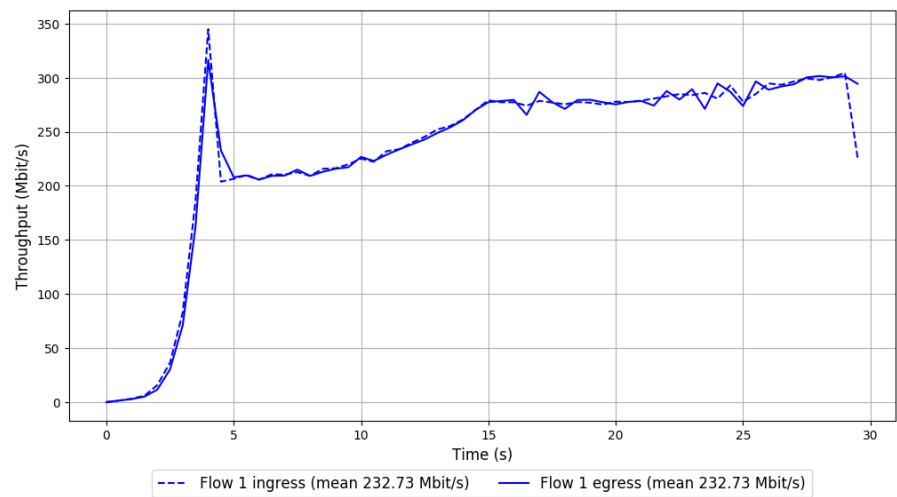
-- Flow 1:

Average throughput: 232.73 Mbit/s

95th percentile per-packet one-way delay: 114.513 ms

Loss rate: 0.01%

Run 4: Report of Vivace-LTE — Data Link



Run 5: Statistics of Vivace-LTE

Start at: 2018-02-27 09:39:40

End at: 2018-02-27 09:40:10

Below is generated by plot.py at 2018-02-27 14:27:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.60 Mbit/s

95th percentile per-packet one-way delay: 90.965 ms

Loss rate: 0.00%

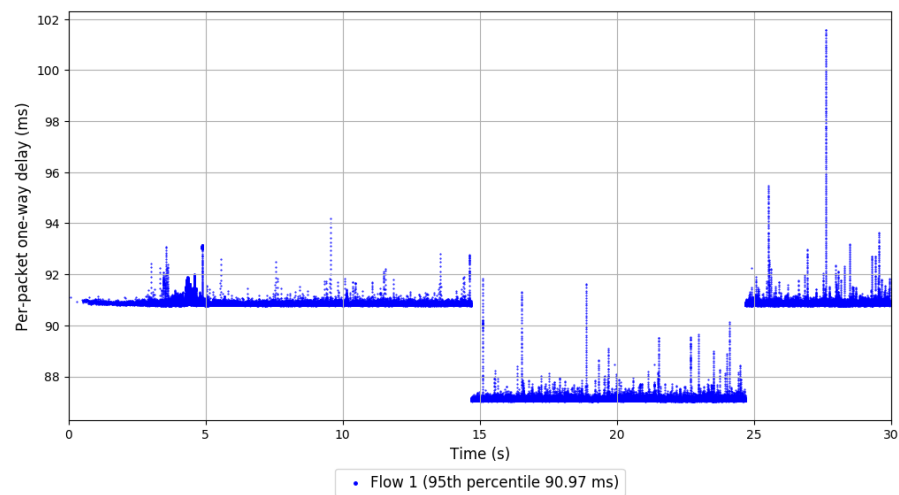
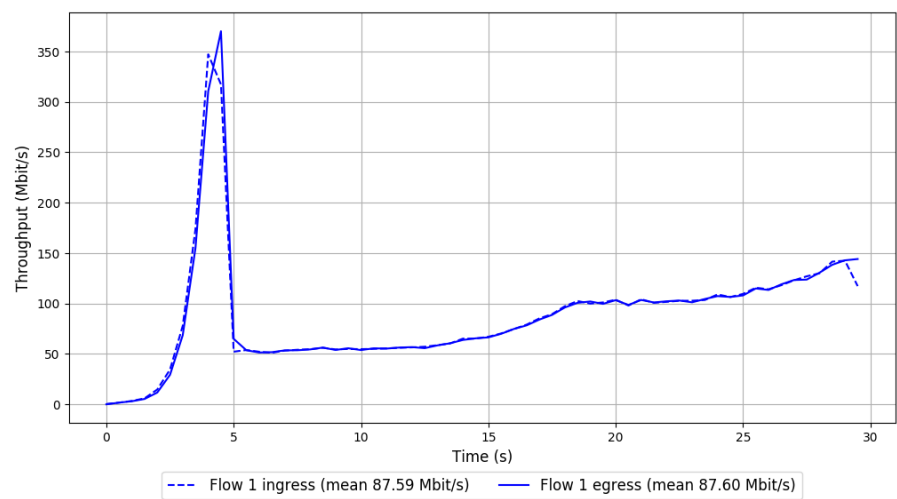
-- Flow 1:

Average throughput: 87.60 Mbit/s

95th percentile per-packet one-way delay: 90.965 ms

Loss rate: 0.00%

Run 5: Report of Vivace-LTE — Data Link



Run 6: Statistics of Vivace-LTE

Start at: 2018-02-27 09:54:31

End at: 2018-02-27 09:55:01

Below is generated by plot.py at 2018-02-27 14:28:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 224.25 Mbit/s

95th percentile per-packet one-way delay: 86.961 ms

Loss rate: 0.04%

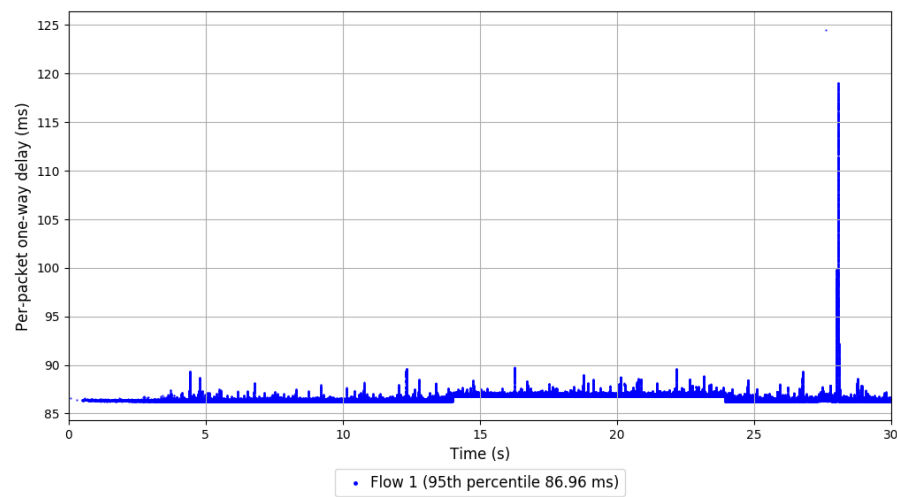
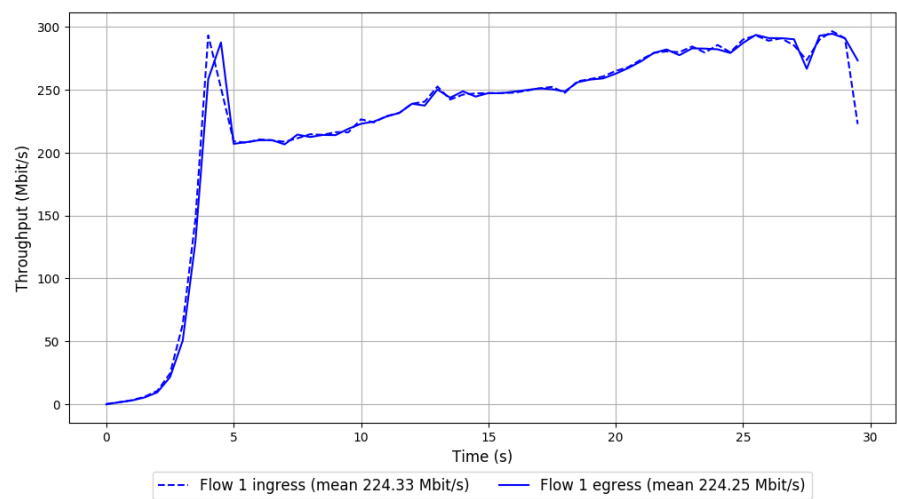
-- Flow 1:

Average throughput: 224.25 Mbit/s

95th percentile per-packet one-way delay: 86.961 ms

Loss rate: 0.04%

Run 6: Report of Vivace-LTE — Data Link



Run 7: Statistics of Vivace-LTE

Start at: 2018-02-27 10:09:11

End at: 2018-02-27 10:09:41

Below is generated by plot.py at 2018-02-27 14:28:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 227.45 Mbit/s

95th percentile per-packet one-way delay: 114.587 ms

Loss rate: 0.00%

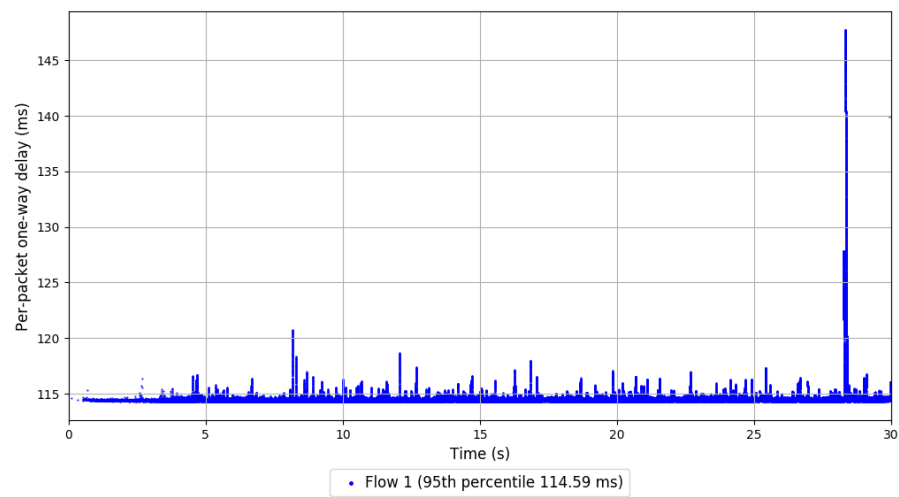
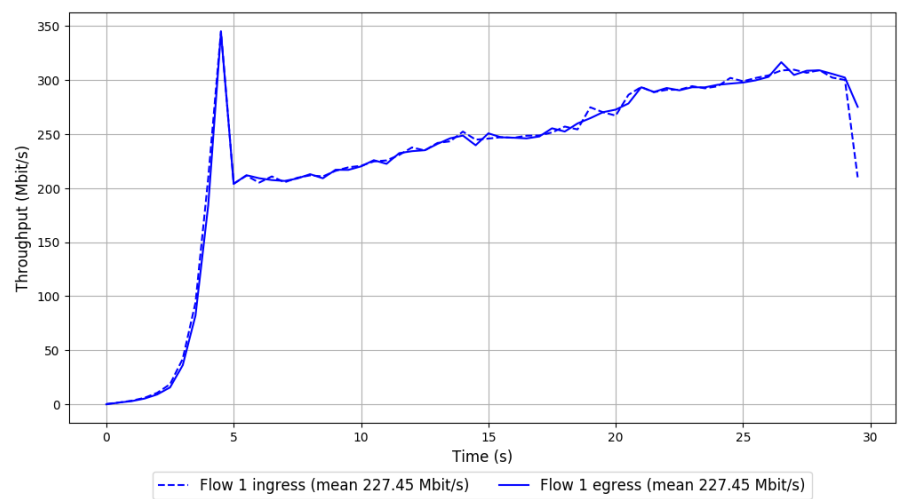
-- Flow 1:

Average throughput: 227.45 Mbit/s

95th percentile per-packet one-way delay: 114.587 ms

Loss rate: 0.00%

Run 7: Report of Vivace-LTE — Data Link



Run 8: Statistics of Vivace-LTE

Start at: 2018-02-27 10:23:58

End at: 2018-02-27 10:24:28

Below is generated by plot.py at 2018-02-27 14:28:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 231.26 Mbit/s

95th percentile per-packet one-way delay: 87.004 ms

Loss rate: 0.00%

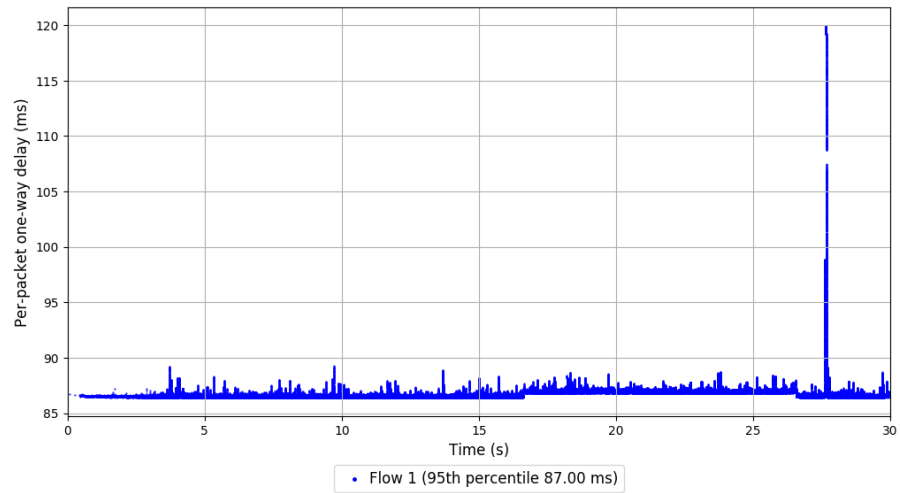
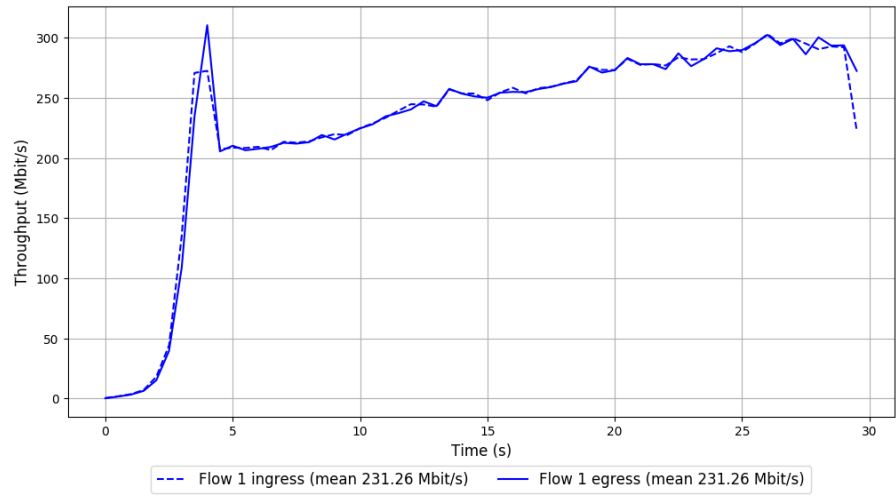
-- Flow 1:

Average throughput: 231.26 Mbit/s

95th percentile per-packet one-way delay: 87.004 ms

Loss rate: 0.00%

Run 8: Report of Vivace-LTE — Data Link



Run 9: Statistics of Vivace-LTE

Start at: 2018-02-27 10:39:10

End at: 2018-02-27 10:39:40

Below is generated by plot.py at 2018-02-27 14:28:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 196.81 Mbit/s

95th percentile per-packet one-way delay: 114.944 ms

Loss rate: 0.00%

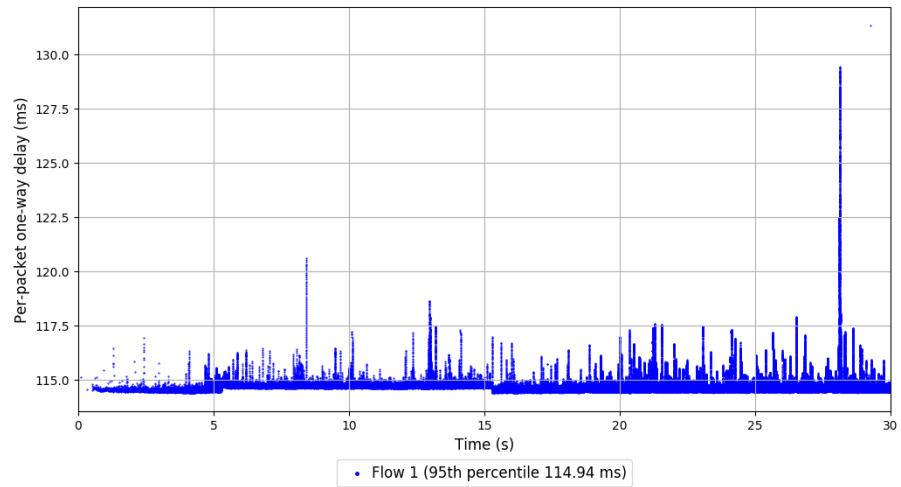
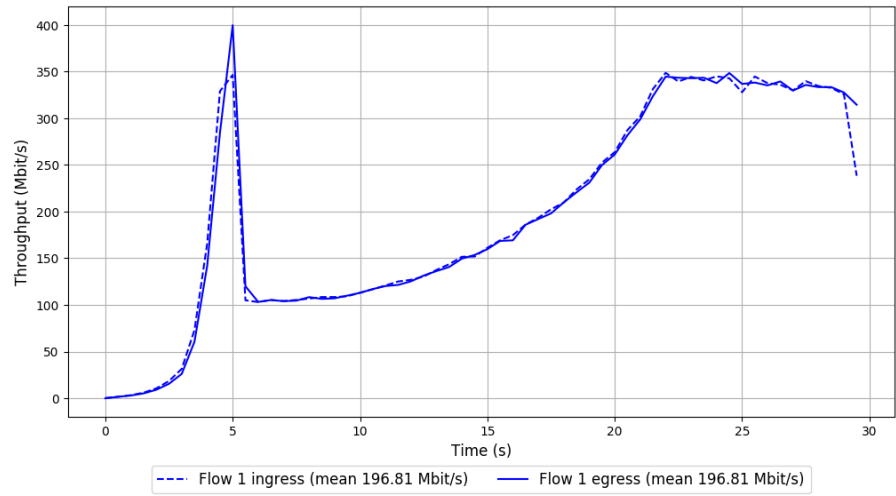
-- Flow 1:

Average throughput: 196.81 Mbit/s

95th percentile per-packet one-way delay: 114.944 ms

Loss rate: 0.00%

Run 9: Report of Vivace-LTE — Data Link



Run 10: Statistics of Vivace-LTE

Start at: 2018-02-27 10:53:52

End at: 2018-02-27 10:54:22

Below is generated by plot.py at 2018-02-27 14:28:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 221.15 Mbit/s

95th percentile per-packet one-way delay: 114.893 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 221.15 Mbit/s

95th percentile per-packet one-way delay: 114.893 ms

Loss rate: 0.00%

Run 10: Report of Vivace-LTE — Data Link

