

Pantheon Report

Generated at 2018-02-28 09:03:02 (UTC).

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

Repeated the test of 17 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

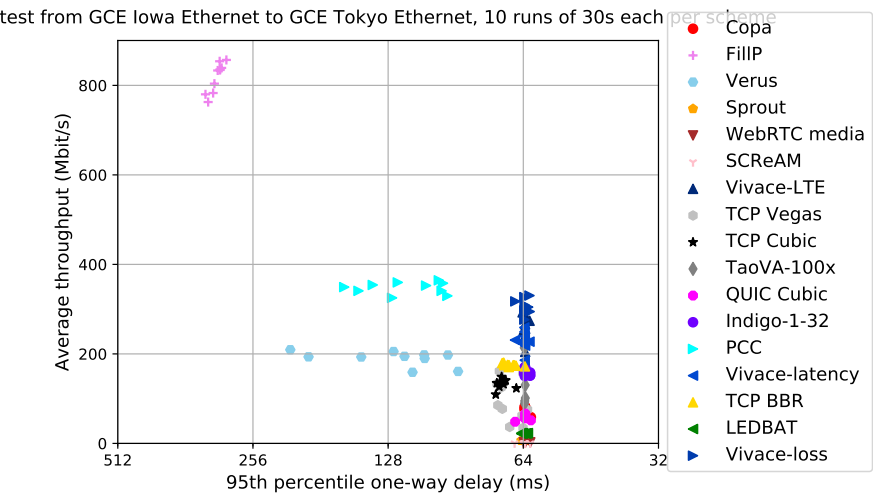
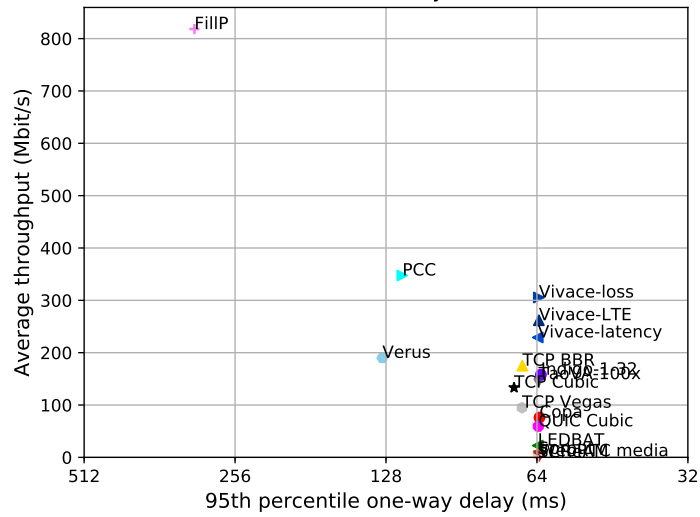
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

Git summary:

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

test from GCE Iowa Ethernet to GCE Tokyo Ethernet, 10 runs of 30s each per scheme
(mean of all runs by 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	175.13	68.42	0.00
TCP Cubic	10	133.17	71.09	0.01
LEDBAT	10	22.54	63.77	0.00
PCC	10	347.46	118.74	0.16
QUIC Cubic	8	59.31	63.60	0.00
SCReAM	10	0.21	63.76	0.00
WebRTC media	10	2.26	63.40	0.06
Sprout	10	6.54	63.63	0.00
TaoVA-100x	10	149.38	63.55	0.00
TCP Vegas	10	94.91	68.54	0.06
Verus	10	190.08	130.21	0.28
Copa	10	76.07	63.26	0.00
FillP	10	818.27	308.52	4.37
Indigo-1-32	10	157.96	62.85	0.01
Vivace-latency	10	229.07	63.77	0.01
Vivace-loss	10	305.42	63.44	0.00
Vivace-LTE	10	261.97	63.44	0.00

Run 1: Statistics of TCP BBR

Start at: 2018-02-28 02:35:06

End at: 2018-02-28 02:35:37

Below is generated by plot.py at 2018-02-28 07:12:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 173.63 Mbit/s

95th percentile per-packet one-way delay: 66.445 ms

Loss rate: 0.01%

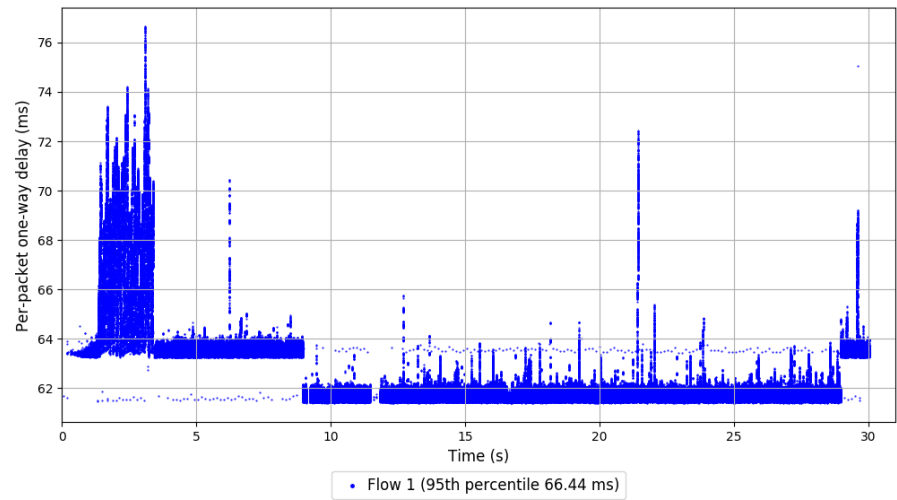
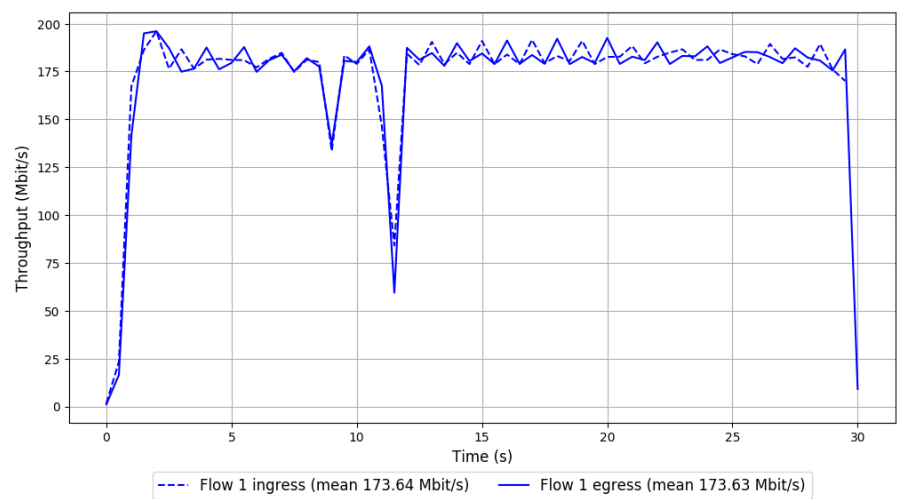
-- Flow 1:

Average throughput: 173.63 Mbit/s

95th percentile per-packet one-way delay: 66.445 ms

Loss rate: 0.01%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-02-28 02:49:43

End at: 2018-02-28 02:50:13

Below is generated by plot.py at 2018-02-28 07:12:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 174.91 Mbit/s

95th percentile per-packet one-way delay: 67.403 ms

Loss rate: 0.00%

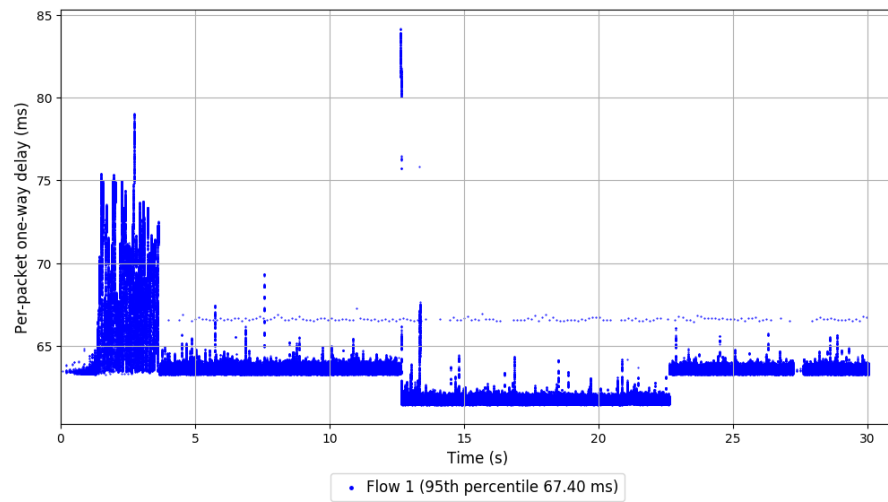
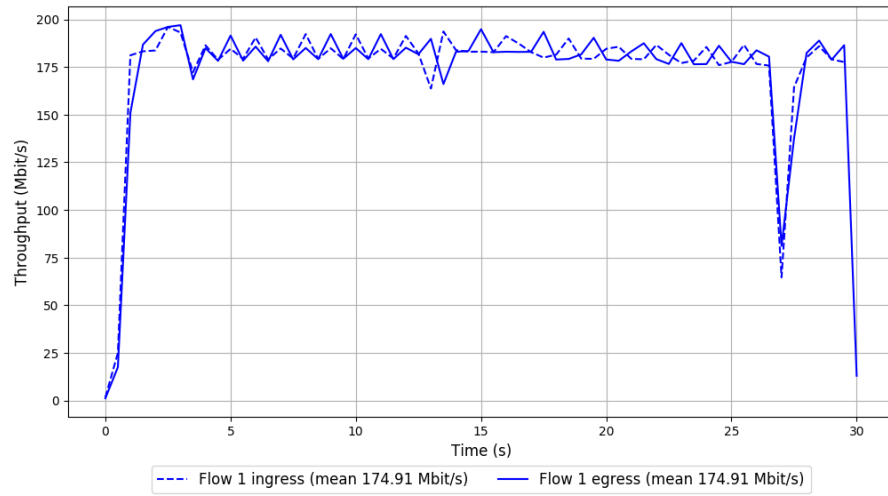
-- Flow 1:

Average throughput: 174.91 Mbit/s

95th percentile per-packet one-way delay: 67.403 ms

Loss rate: 0.00%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-02-28 03:04:11

End at: 2018-02-28 03:04:41

Below is generated by plot.py at 2018-02-28 07:12:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 180.43 Mbit/s

95th percentile per-packet one-way delay: 70.790 ms

Loss rate: 0.00%

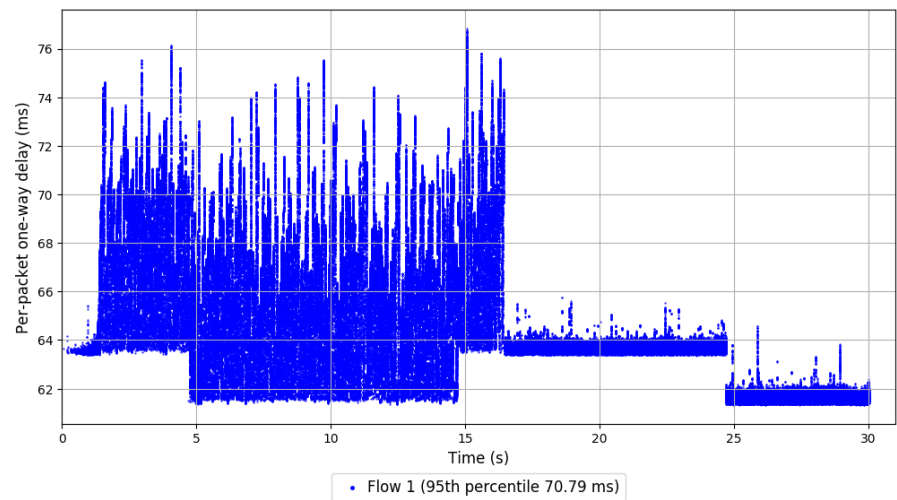
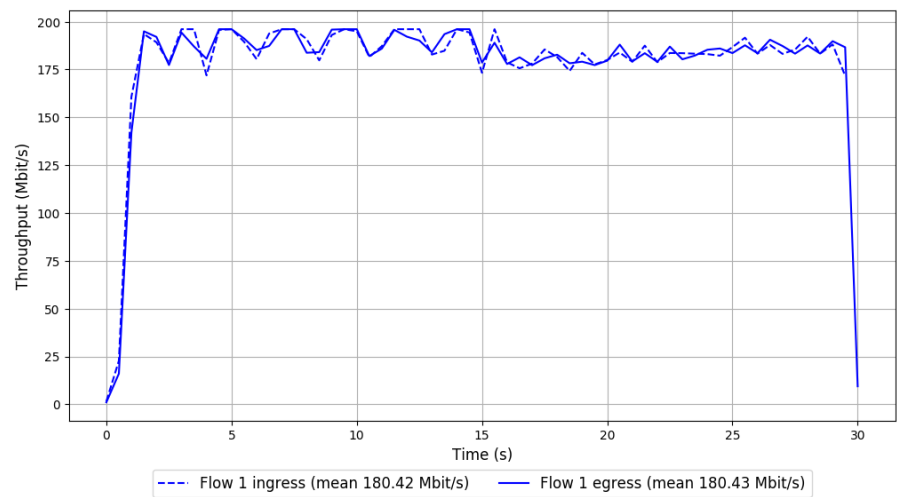
-- Flow 1:

Average throughput: 180.43 Mbit/s

95th percentile per-packet one-way delay: 70.790 ms

Loss rate: 0.00%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-02-28 03:18:40

End at: 2018-02-28 03:19:10

Below is generated by plot.py at 2018-02-28 07:12:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 179.56 Mbit/s

95th percentile per-packet one-way delay: 71.293 ms

Loss rate: 0.00%

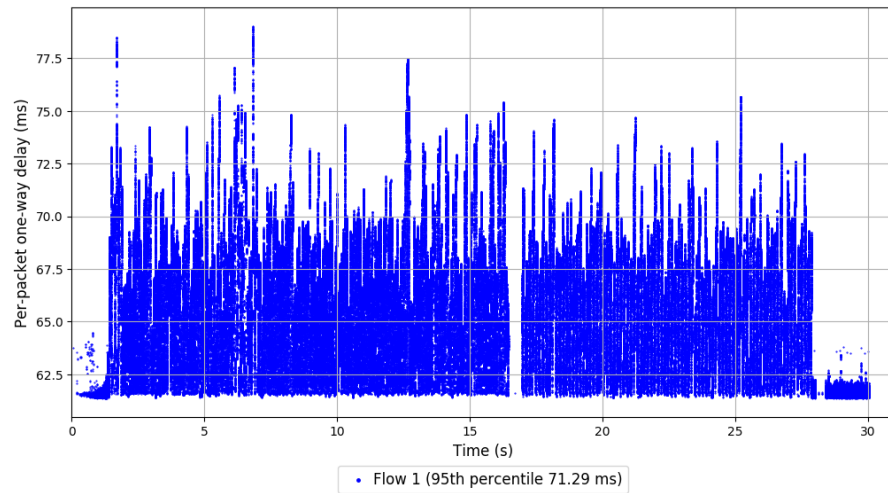
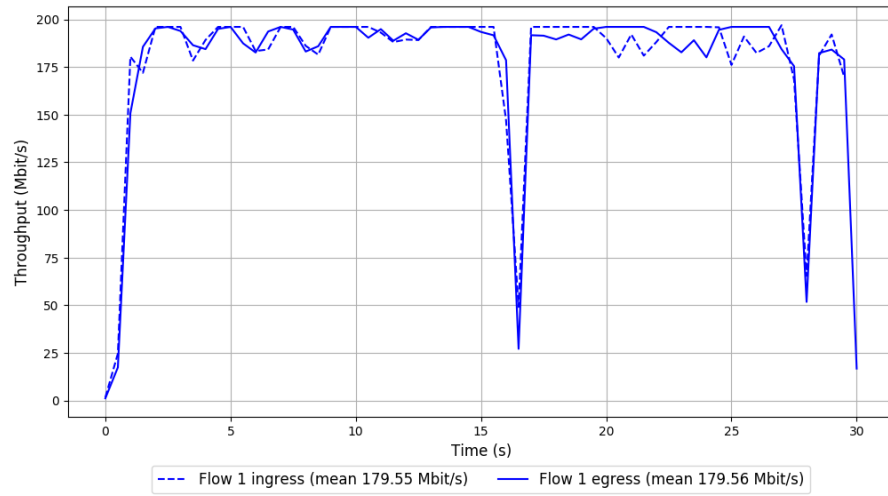
-- Flow 1:

Average throughput: 179.56 Mbit/s

95th percentile per-packet one-way delay: 71.293 ms

Loss rate: 0.00%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-02-28 03:33:09

End at: 2018-02-28 03:33:39

Below is generated by plot.py at 2018-02-28 07:12:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 172.12 Mbit/s

95th percentile per-packet one-way delay: 63.461 ms

Loss rate: 0.00%

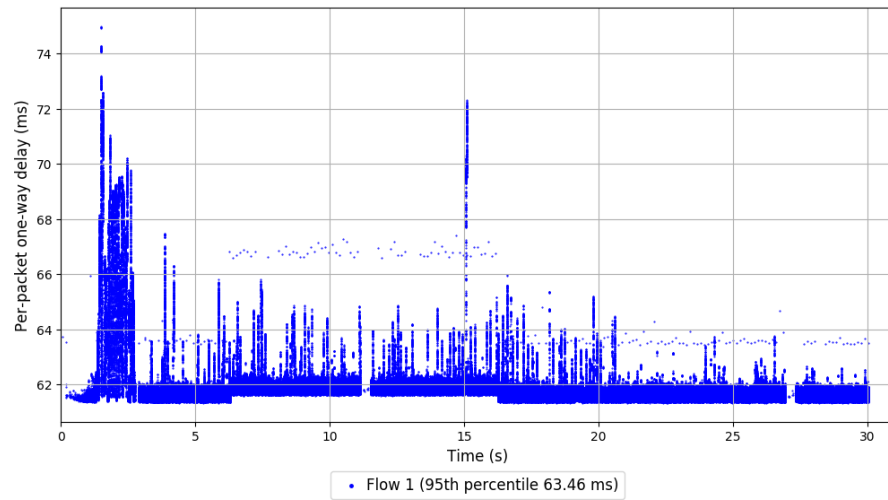
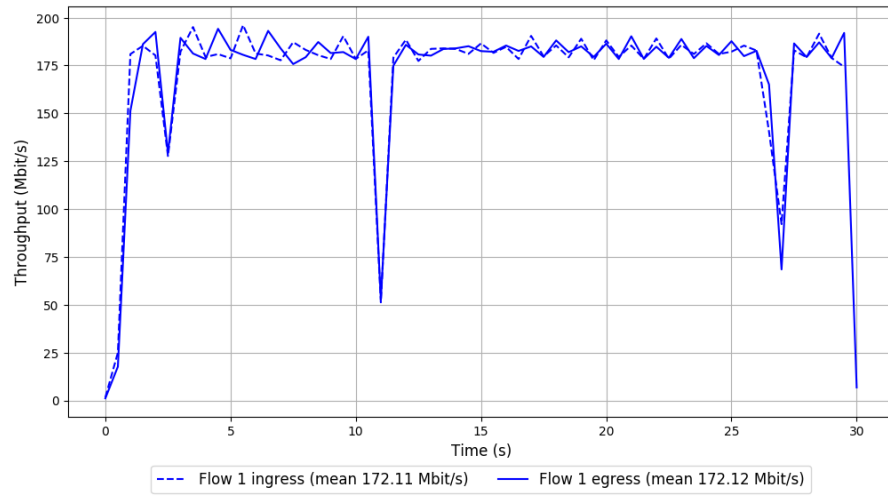
-- Flow 1:

Average throughput: 172.12 Mbit/s

95th percentile per-packet one-way delay: 63.461 ms

Loss rate: 0.00%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-02-28 03:47:35

End at: 2018-02-28 03:48:05

Below is generated by plot.py at 2018-02-28 07:12:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 175.03 Mbit/s

95th percentile per-packet one-way delay: 68.895 ms

Loss rate: 0.00%

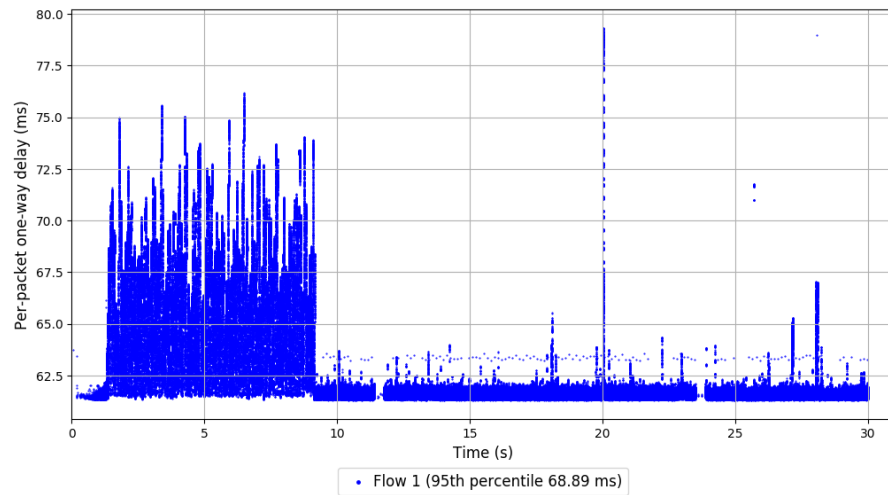
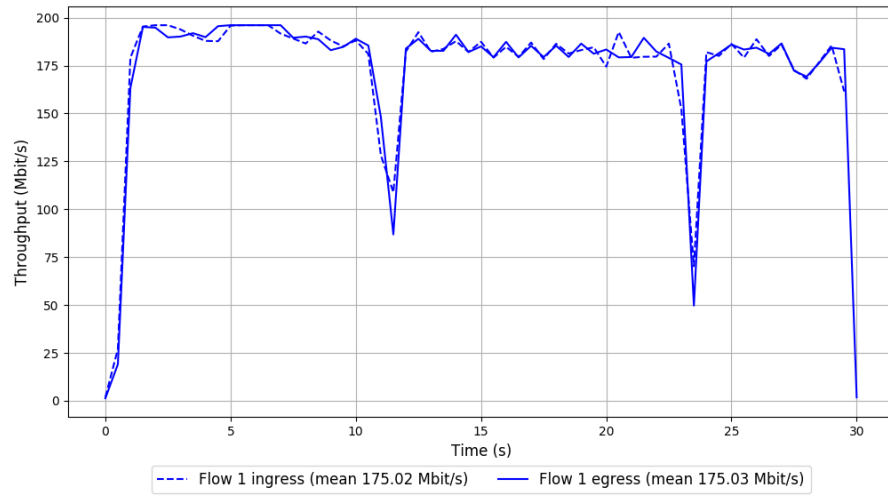
-- Flow 1:

Average throughput: 175.03 Mbit/s

95th percentile per-packet one-way delay: 68.895 ms

Loss rate: 0.00%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-02-28 04:02:09

End at: 2018-02-28 04:02:39

Below is generated by plot.py at 2018-02-28 07:12:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 174.92 Mbit/s

95th percentile per-packet one-way delay: 70.601 ms

Loss rate: 0.00%

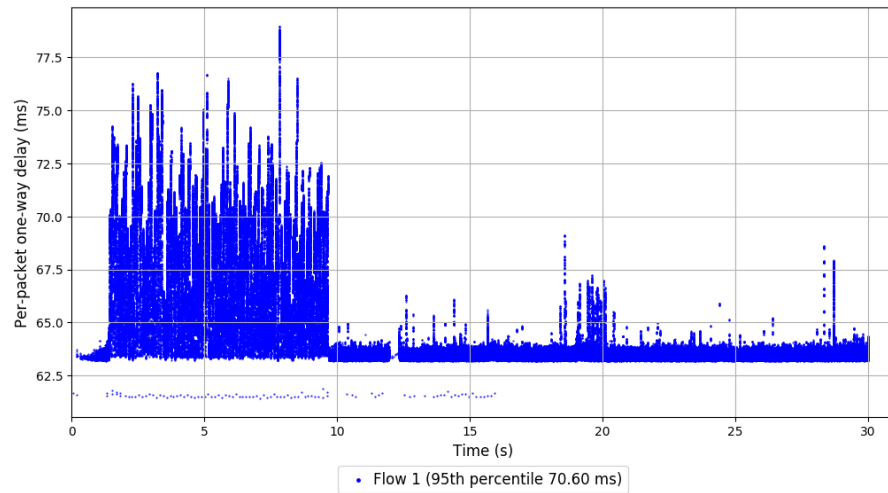
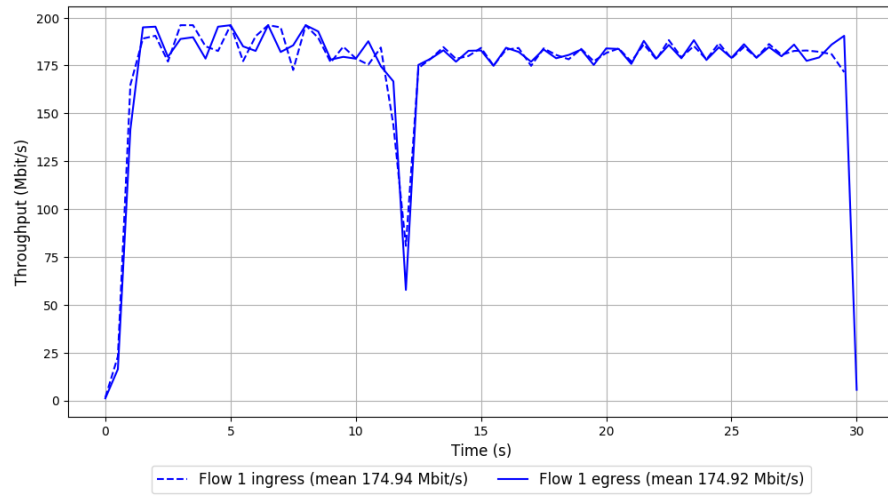
-- Flow 1:

Average throughput: 174.92 Mbit/s

95th percentile per-packet one-way delay: 70.601 ms

Loss rate: 0.00%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-02-28 04:16:45

End at: 2018-02-28 04:17:15

Below is generated by plot.py at 2018-02-28 07:12:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 174.66 Mbit/s

95th percentile per-packet one-way delay: 66.934 ms

Loss rate: 0.00%

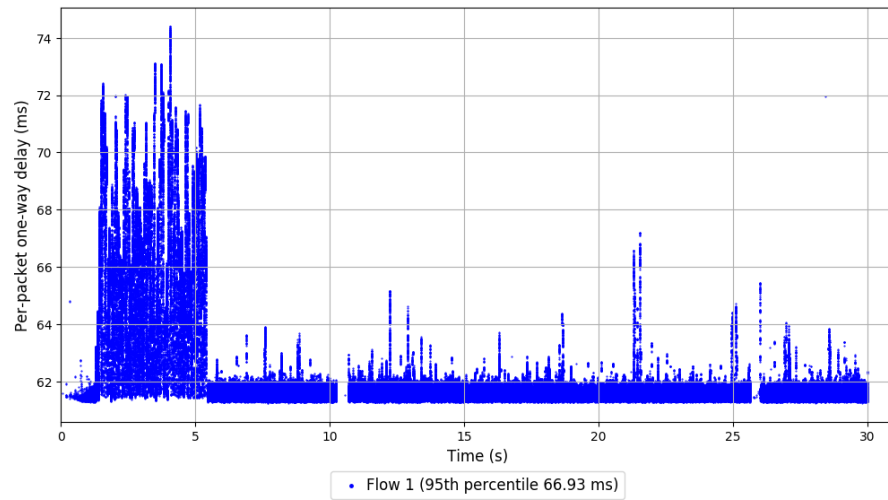
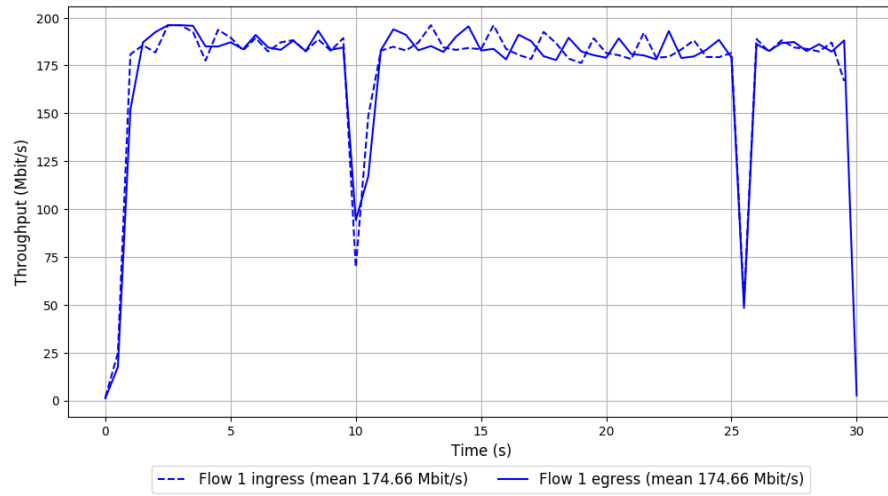
-- Flow 1:

Average throughput: 174.66 Mbit/s

95th percentile per-packet one-way delay: 66.934 ms

Loss rate: 0.00%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-02-28 04:31:21

End at: 2018-02-28 04:31:51

Below is generated by plot.py at 2018-02-28 07:16:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 175.41 Mbit/s

95th percentile per-packet one-way delay: 69.404 ms

Loss rate: 0.00%

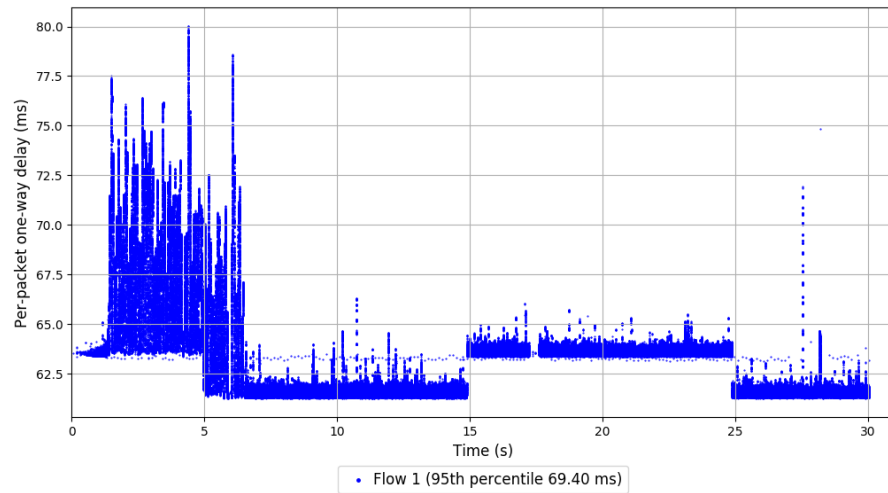
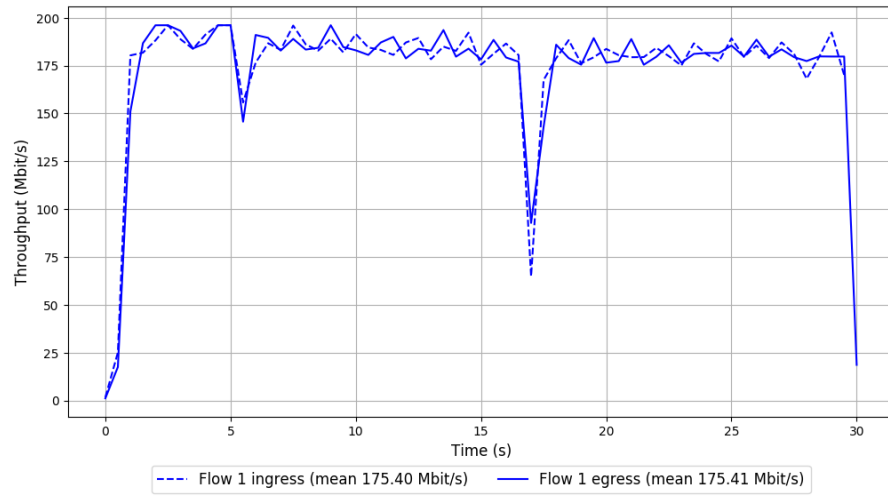
-- Flow 1:

Average throughput: 175.41 Mbit/s

95th percentile per-packet one-way delay: 69.404 ms

Loss rate: 0.00%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-02-28 04:45:53

End at: 2018-02-28 04:46:23

Below is generated by plot.py at 2018-02-28 07:16:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 170.64 Mbit/s

95th percentile per-packet one-way delay: 68.949 ms

Loss rate: 0.00%

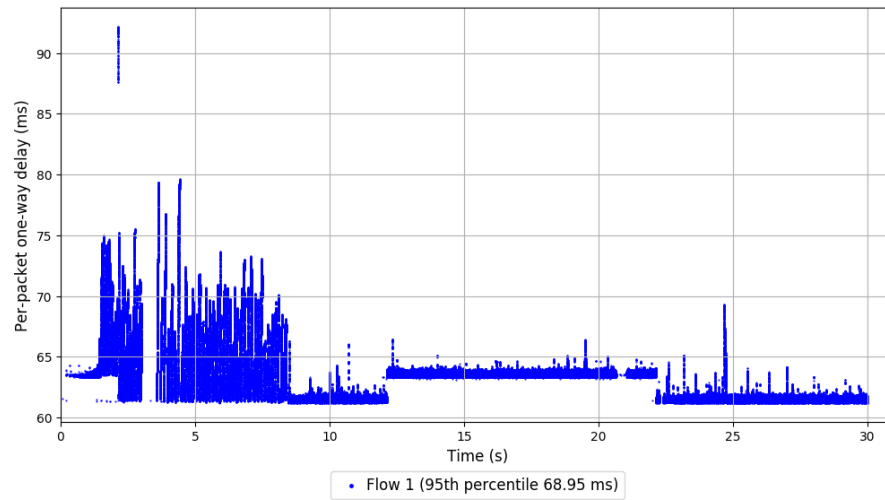
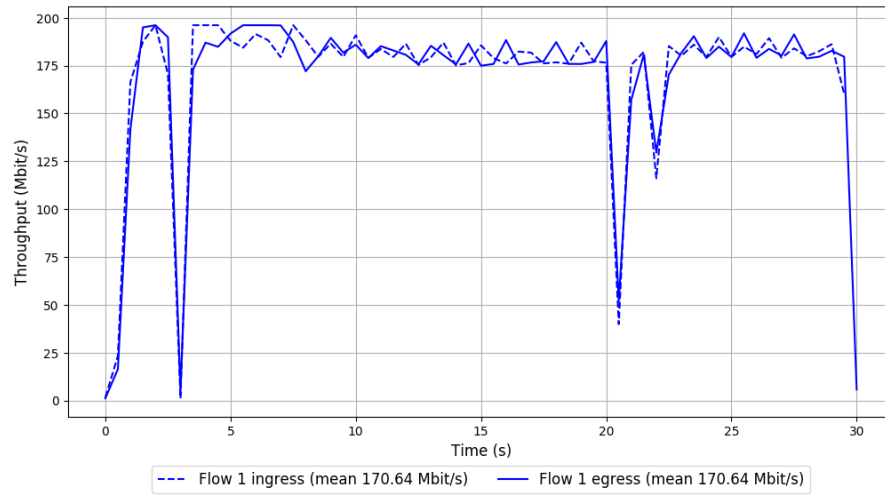
-- Flow 1:

Average throughput: 170.64 Mbit/s

95th percentile per-packet one-way delay: 68.949 ms

Loss rate: 0.00%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-02-28 02:39:19

End at: 2018-02-28 02:39:49

Below is generated by plot.py at 2018-02-28 07:16:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 126.83 Mbit/s

95th percentile per-packet one-way delay: 72.405 ms

Loss rate: 0.00%

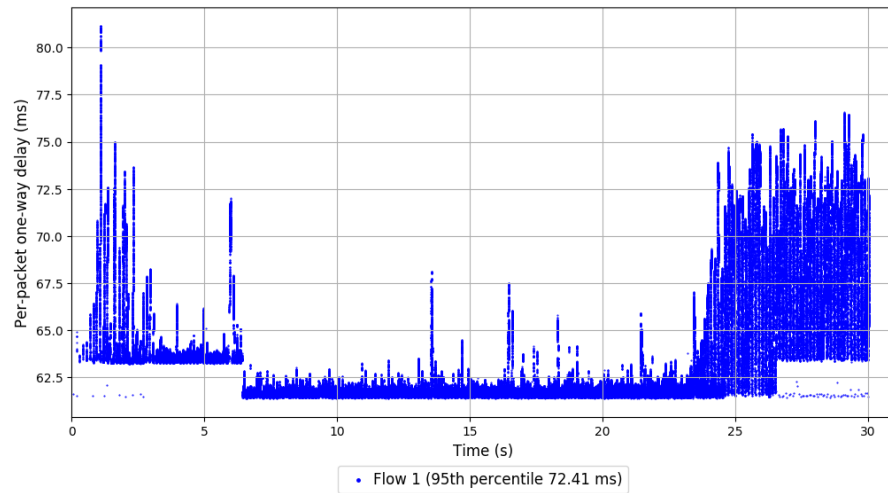
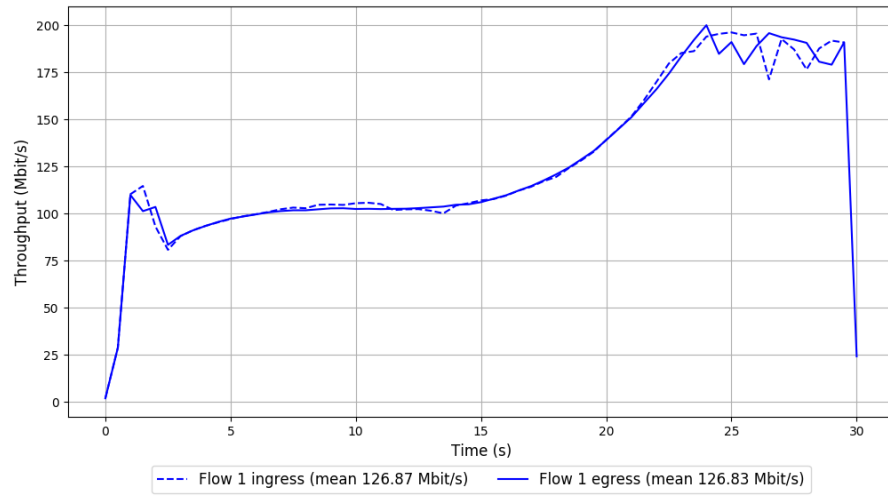
-- Flow 1:

Average throughput: 126.83 Mbit/s

95th percentile per-packet one-way delay: 72.405 ms

Loss rate: 0.00%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-02-28 02:53:55

End at: 2018-02-28 02:54:25

Below is generated by plot.py at 2018-02-28 07:16:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 109.23 Mbit/s

95th percentile per-packet one-way delay: 73.708 ms

Loss rate: 0.10%

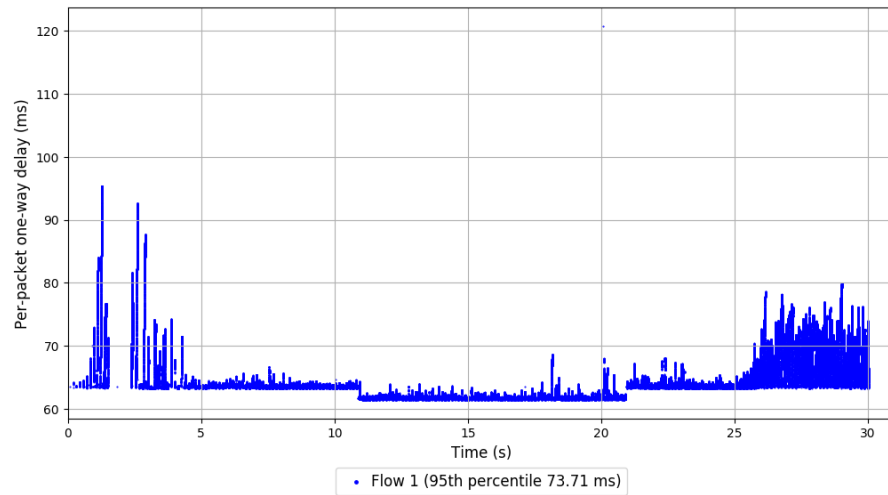
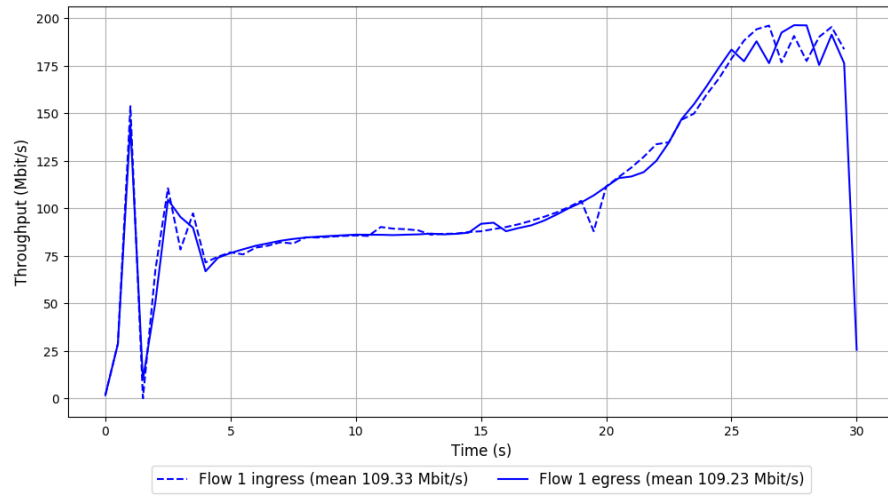
-- Flow 1:

Average throughput: 109.23 Mbit/s

95th percentile per-packet one-way delay: 73.708 ms

Loss rate: 0.10%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-02-28 03:08:21

End at: 2018-02-28 03:08:51

Below is generated by plot.py at 2018-02-28 07:16:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 138.67 Mbit/s

95th percentile per-packet one-way delay: 70.557 ms

Loss rate: 0.00%

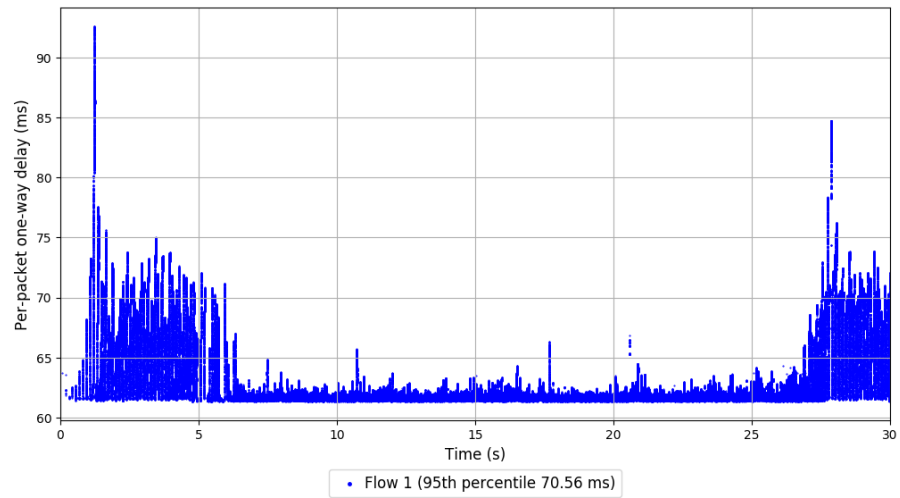
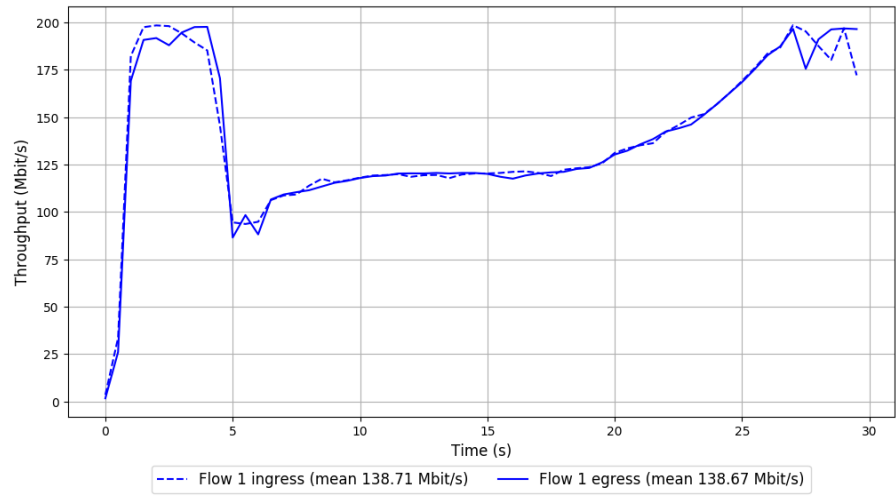
-- Flow 1:

Average throughput: 138.67 Mbit/s

95th percentile per-packet one-way delay: 70.557 ms

Loss rate: 0.00%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-02-28 03:22:50

End at: 2018-02-28 03:23:20

Below is generated by plot.py at 2018-02-28 07:16:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 134.75 Mbit/s

95th percentile per-packet one-way delay: 73.310 ms

Loss rate: 0.00%

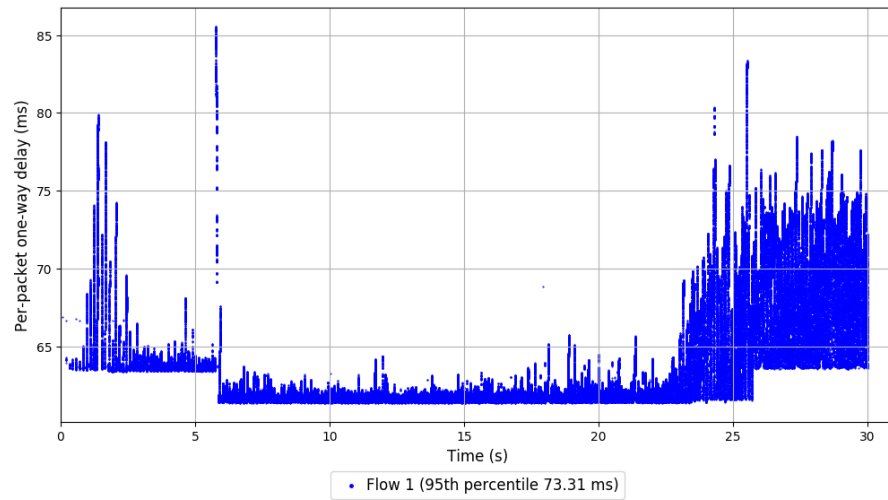
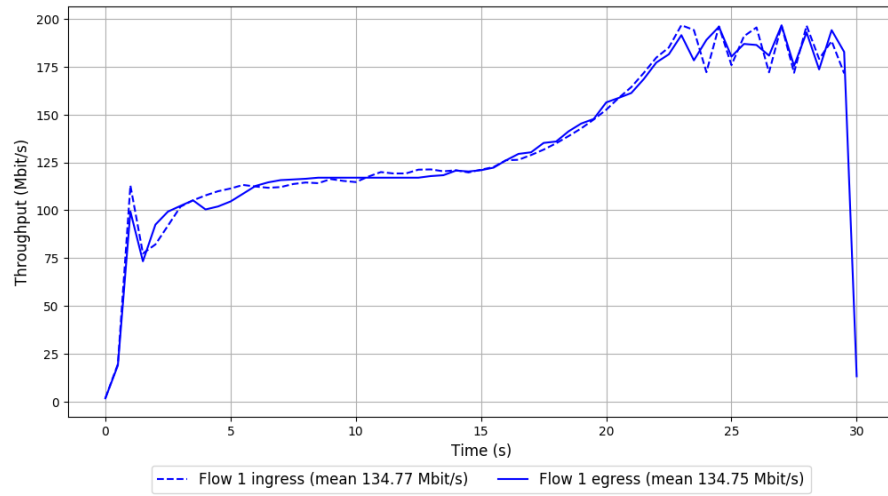
-- Flow 1:

Average throughput: 134.75 Mbit/s

95th percentile per-packet one-way delay: 73.310 ms

Loss rate: 0.00%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-02-28 03:37:18

End at: 2018-02-28 03:37:48

Below is generated by plot.py at 2018-02-28 07:16:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 148.65 Mbit/s

95th percentile per-packet one-way delay: 71.539 ms

Loss rate: 0.00%

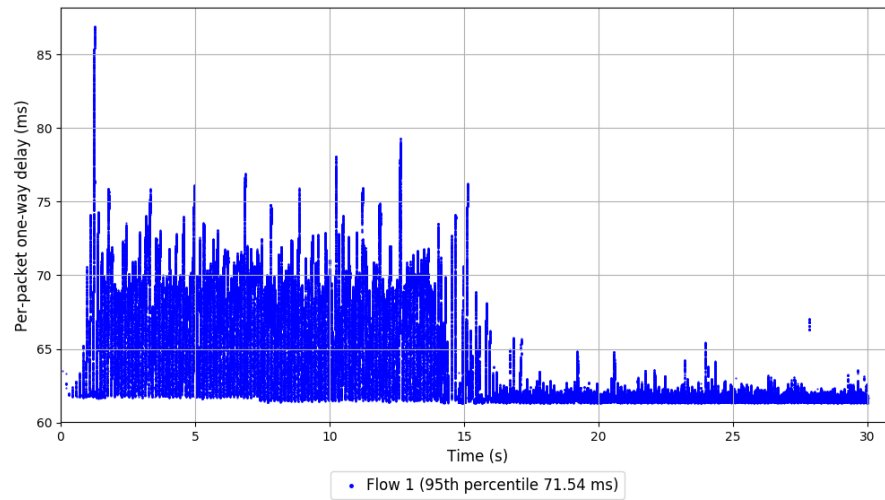
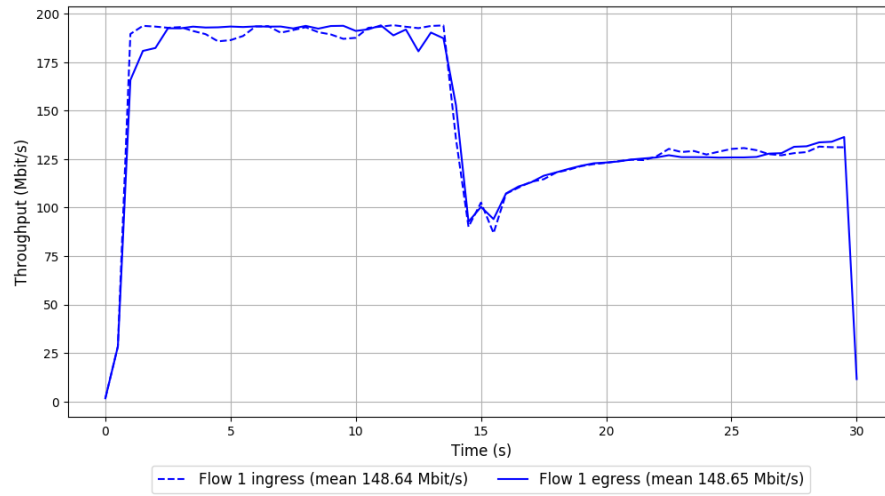
-- Flow 1:

Average throughput: 148.65 Mbit/s

95th percentile per-packet one-way delay: 71.539 ms

Loss rate: 0.00%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-02-28 03:51:45

End at: 2018-02-28 03:52:15

Below is generated by plot.py at 2018-02-28 07:16:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 123.25 Mbit/s

95th percentile per-packet one-way delay: 66.329 ms

Loss rate: 0.00%

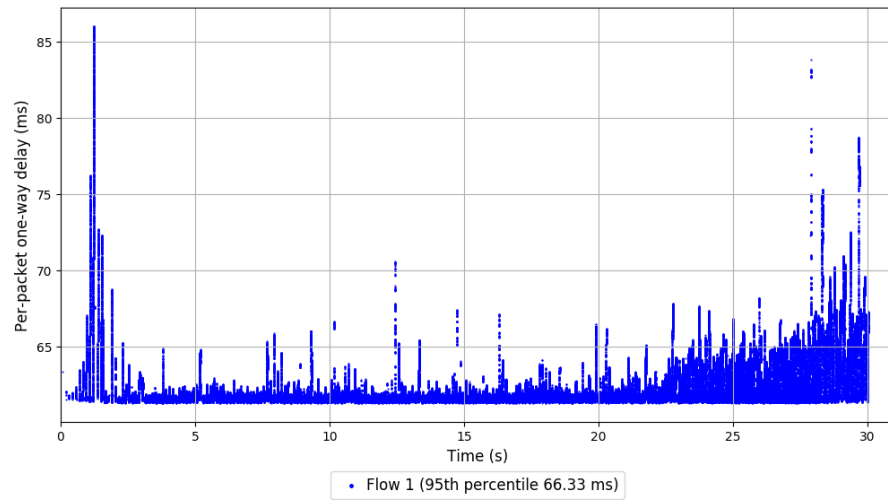
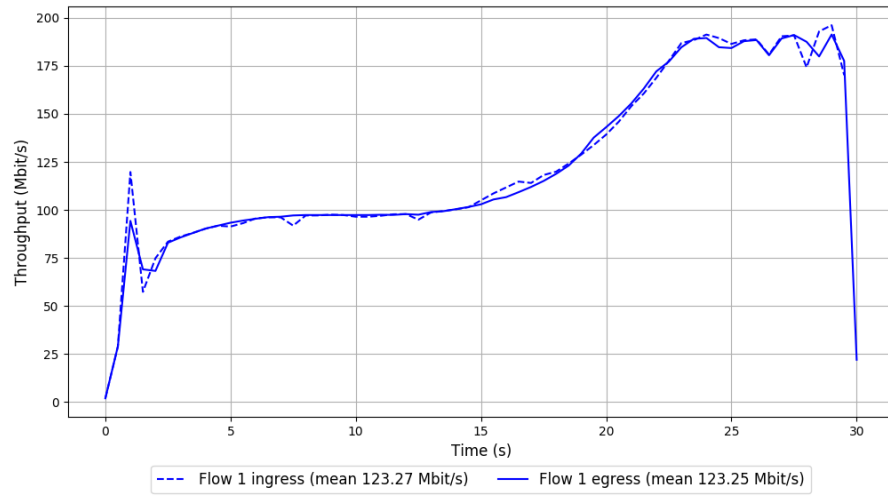
-- Flow 1:

Average throughput: 123.25 Mbit/s

95th percentile per-packet one-way delay: 66.329 ms

Loss rate: 0.00%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-02-28 04:06:18

End at: 2018-02-28 04:06:48

Below is generated by plot.py at 2018-02-28 07:19:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 135.74 Mbit/s

95th percentile per-packet one-way delay: 71.477 ms

Loss rate: 0.00%

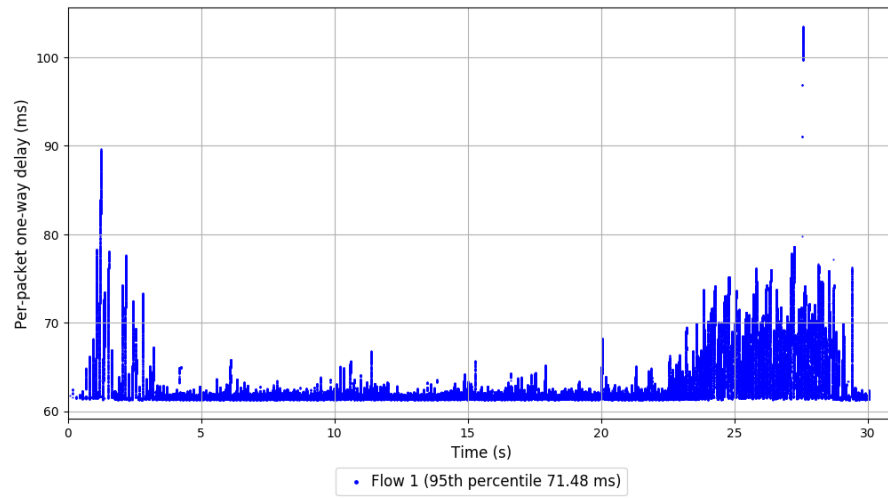
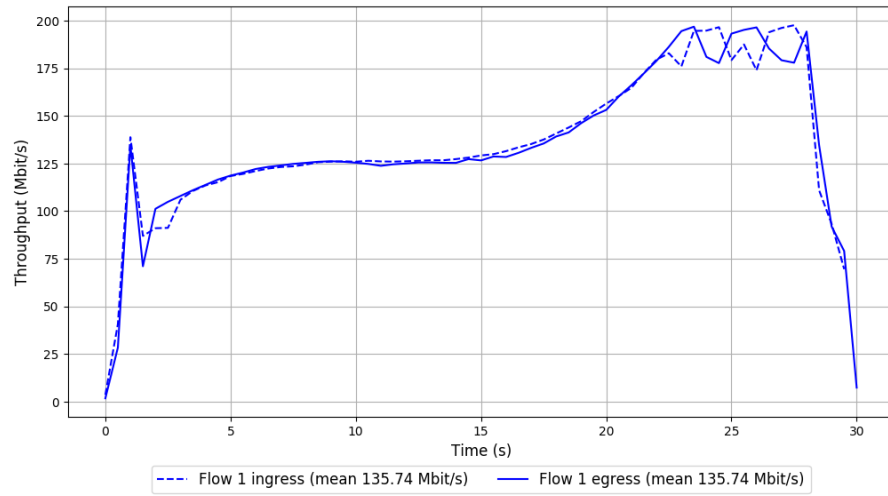
-- Flow 1:

Average throughput: 135.74 Mbit/s

95th percentile per-packet one-way delay: 71.477 ms

Loss rate: 0.00%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-02-28 04:20:55

End at: 2018-02-28 04:21:25

Below is generated by plot.py at 2018-02-28 07:19:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 140.68 Mbit/s

95th percentile per-packet one-way delay: 70.074 ms

Loss rate: 0.00%

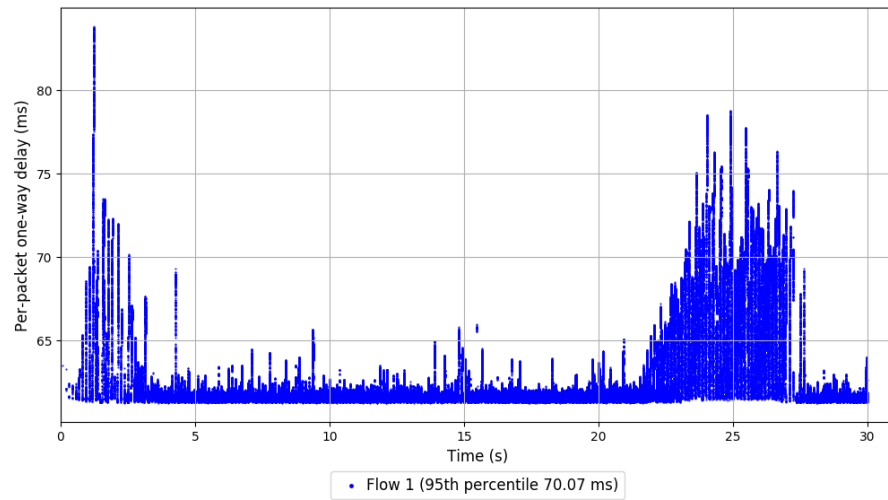
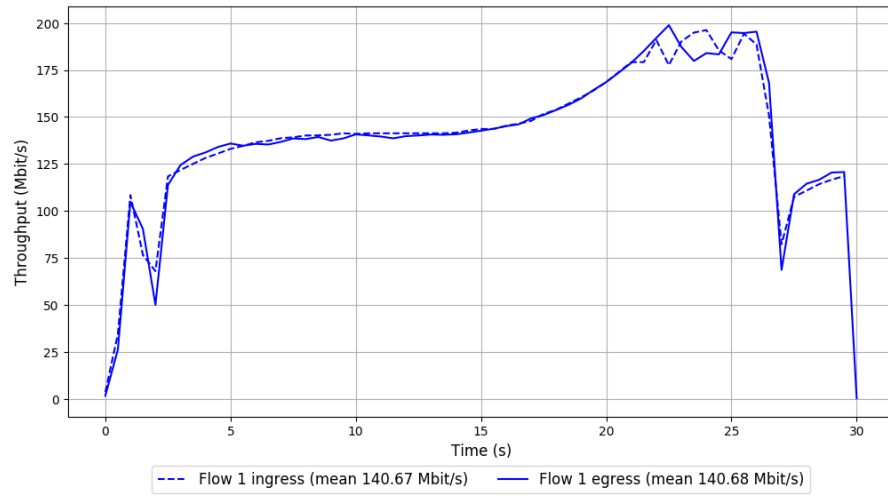
-- Flow 1:

Average throughput: 140.68 Mbit/s

95th percentile per-packet one-way delay: 70.074 ms

Loss rate: 0.00%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-02-28 04:35:24

End at: 2018-02-28 04:35:54

Below is generated by plot.py at 2018-02-28 07:19:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 141.59 Mbit/s

95th percentile per-packet one-way delay: 70.699 ms

Loss rate: 0.03%

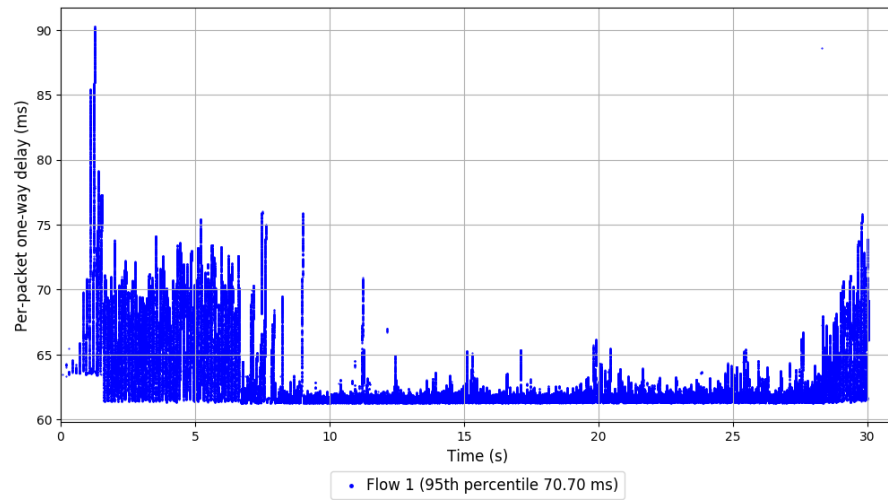
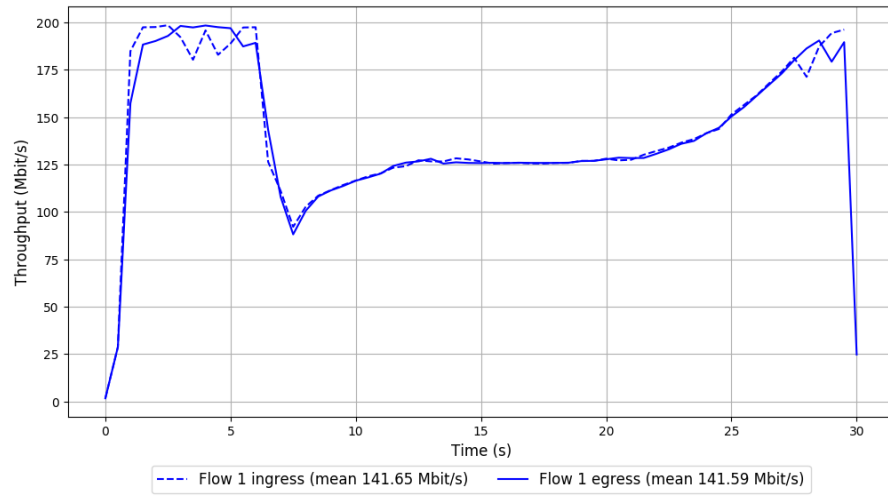
-- Flow 1:

Average throughput: 141.59 Mbit/s

95th percentile per-packet one-way delay: 70.699 ms

Loss rate: 0.03%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-02-28 04:50:07

End at: 2018-02-28 04:50:37

Below is generated by plot.py at 2018-02-28 07:19:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 132.28 Mbit/s

95th percentile per-packet one-way delay: 70.827 ms

Loss rate: 0.00%

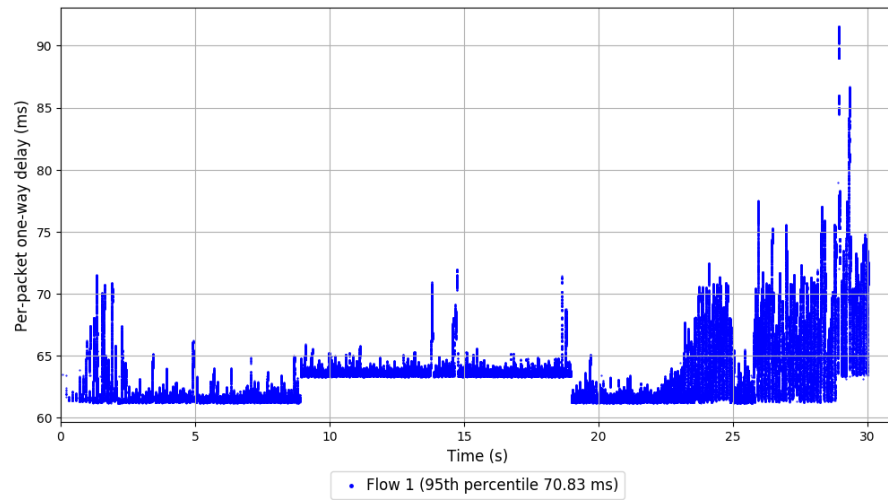
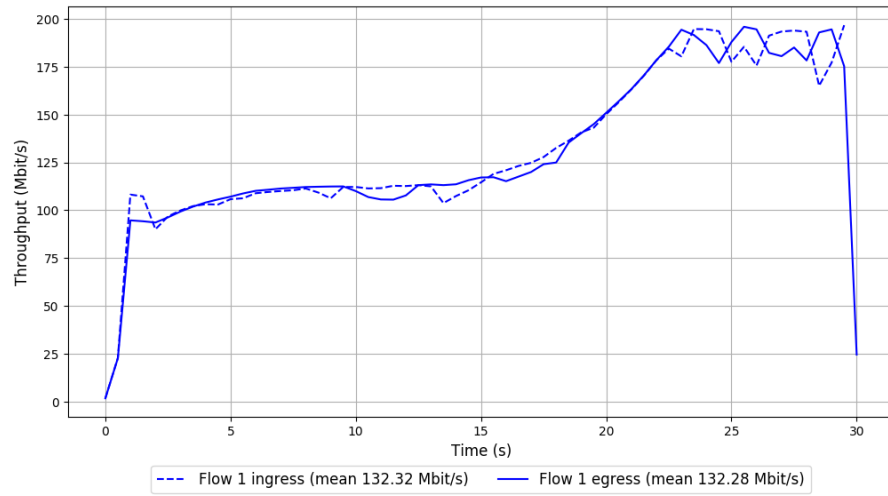
-- Flow 1:

Average throughput: 132.28 Mbit/s

95th percentile per-packet one-way delay: 70.827 ms

Loss rate: 0.00%

Run 10: Report of TCP Cubic — Data Link

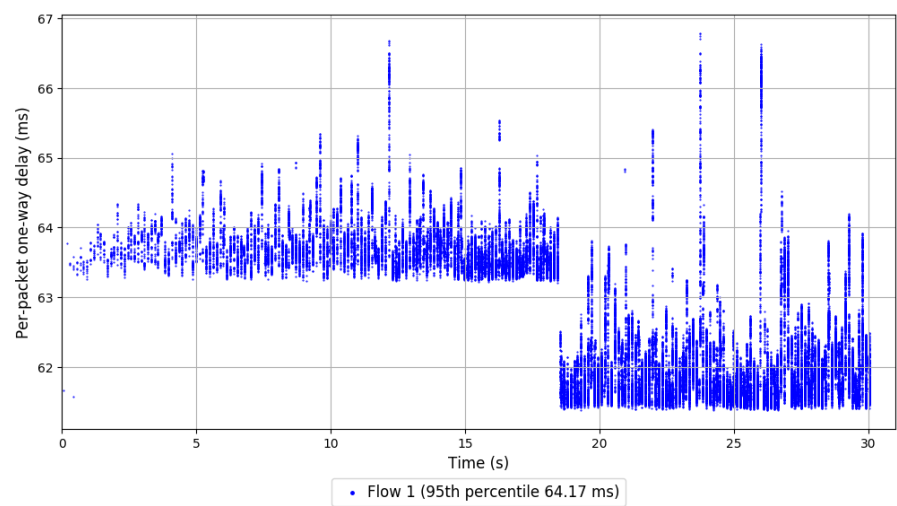
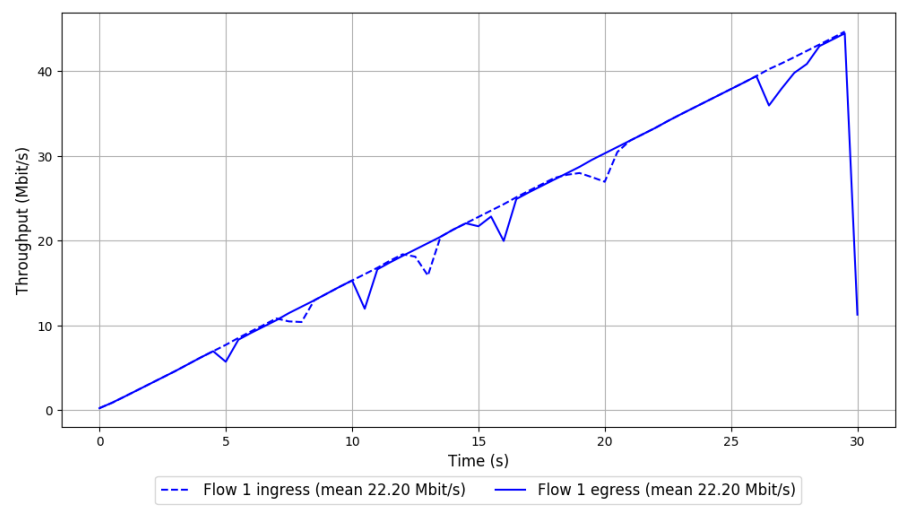


```
Run 1: Statistics of LEDBAT

Start at: 2018-02-28 02:34:27
End at: 2018-02-28 02:34:57

# Below is generated by plot.py at 2018-02-28 07:19:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 22.20 Mbit/s
95th percentile per-packet one-way delay: 64.173 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 22.20 Mbit/s
95th percentile per-packet one-way delay: 64.173 ms
Loss rate: 0.00%
```


Run 1: Report of LEDBAT — Data Link

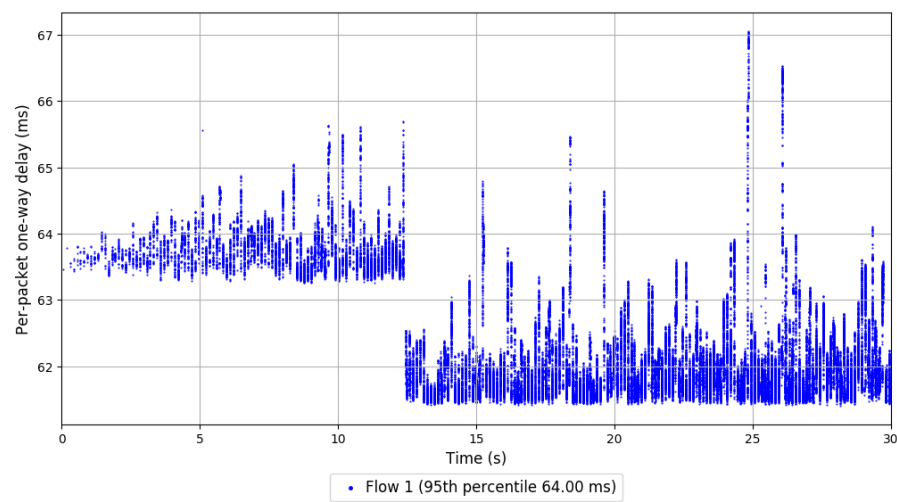
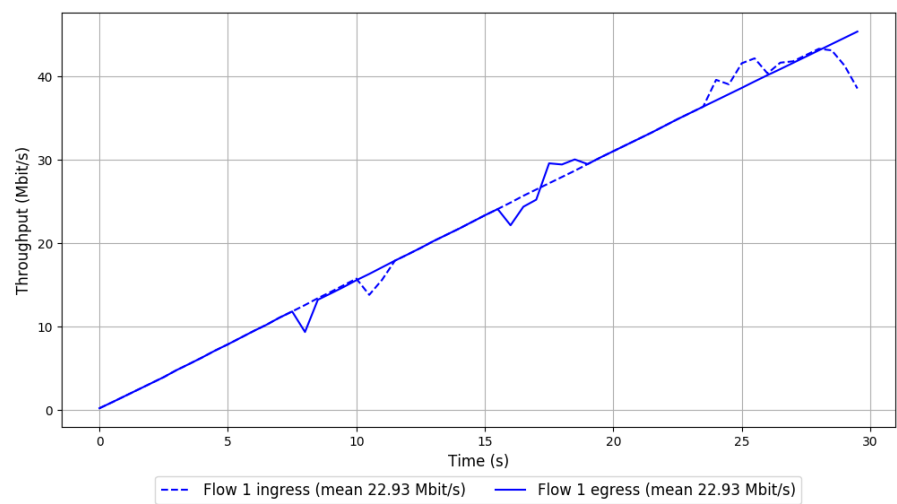


```
Run 2: Statistics of LEDBAT

Start at: 2018-02-28 02:49:03
End at: 2018-02-28 02:49:33

# Below is generated by plot.py at 2018-02-28 07:19:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 22.93 Mbit/s
95th percentile per-packet one-way delay: 64.000 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 22.93 Mbit/s
95th percentile per-packet one-way delay: 64.000 ms
Loss rate: 0.00%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-02-28 03:03:31

End at: 2018-02-28 03:04:01

Below is generated by plot.py at 2018-02-28 07:19:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 21.82 Mbit/s

95th percentile per-packet one-way delay: 64.704 ms

Loss rate: 0.00%

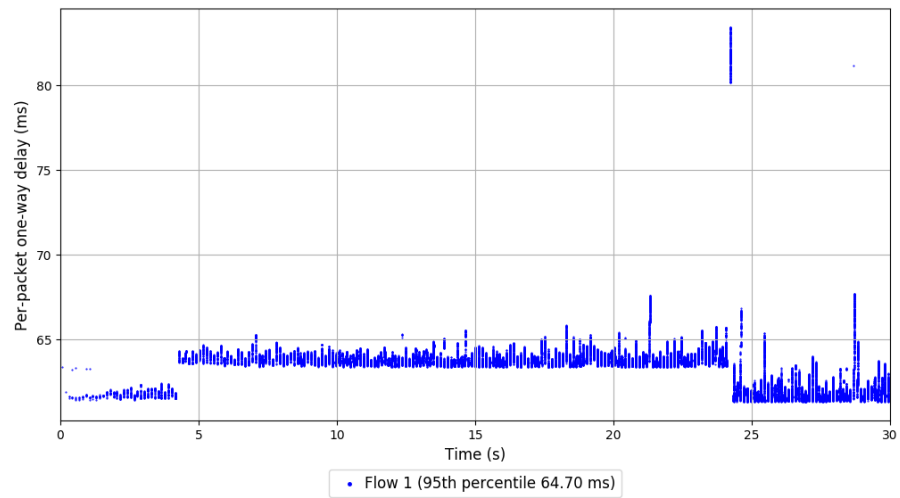
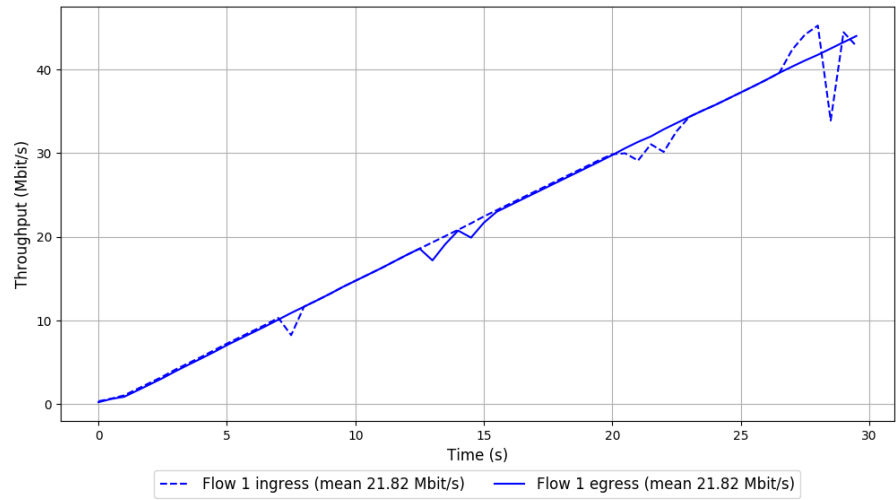
-- Flow 1:

Average throughput: 21.82 Mbit/s

95th percentile per-packet one-way delay: 64.704 ms

Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-02-28 03:18:01

End at: 2018-02-28 03:18:31

Below is generated by plot.py at 2018-02-28 07:19:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 23.38 Mbit/s

95th percentile per-packet one-way delay: 64.593 ms

Loss rate: 0.00%

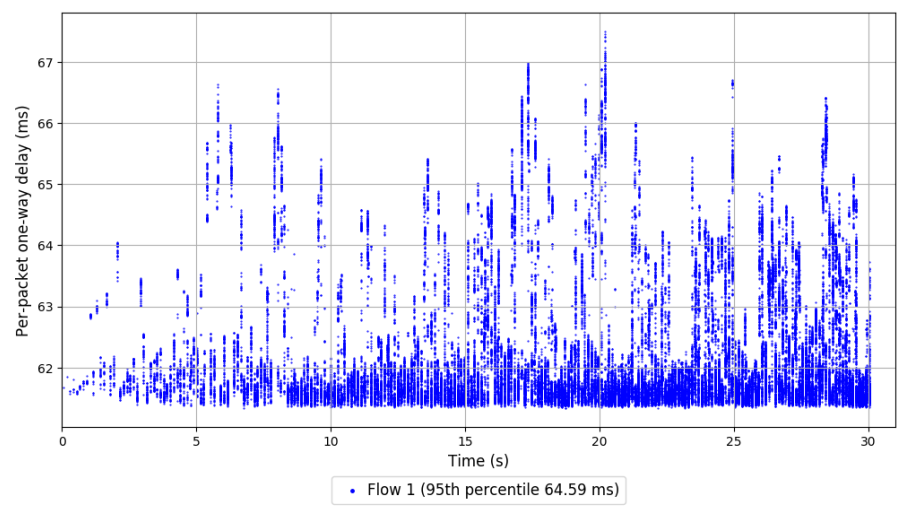
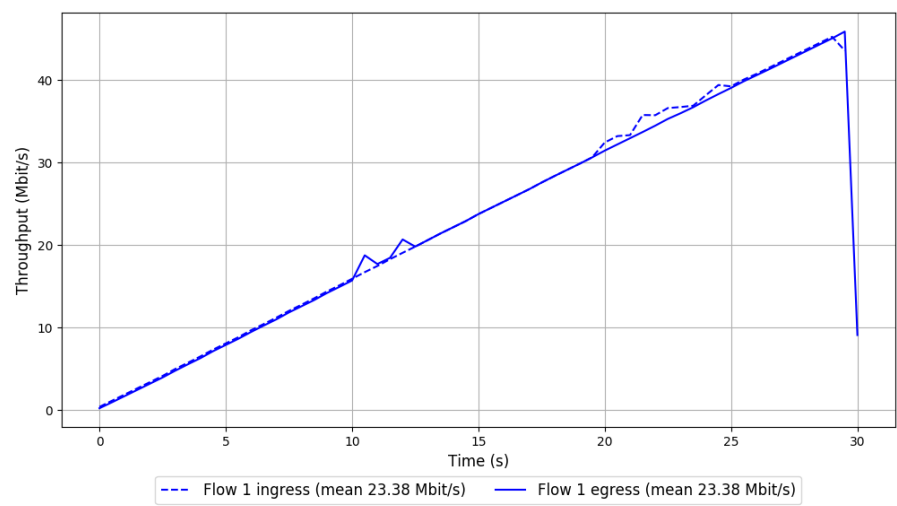
-- Flow 1:

Average throughput: 23.38 Mbit/s

95th percentile per-packet one-way delay: 64.593 ms

Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-02-28 03:32:30

End at: 2018-02-28 03:33:00

Below is generated by plot.py at 2018-02-28 07:19:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 21.89 Mbit/s

95th percentile per-packet one-way delay: 63.250 ms

Loss rate: 0.00%

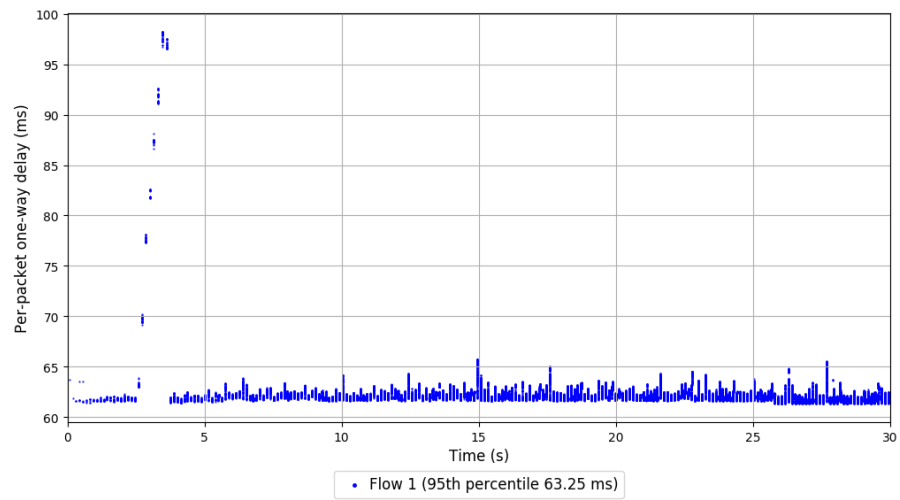
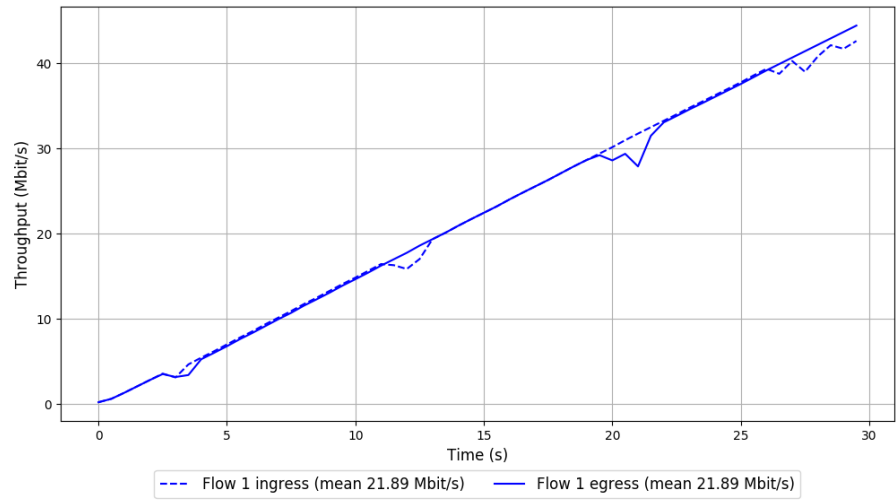
-- Flow 1:

Average throughput: 21.89 Mbit/s

95th percentile per-packet one-way delay: 63.250 ms

Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-02-28 03:46:56

End at: 2018-02-28 03:47:26

Below is generated by plot.py at 2018-02-28 07:19:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 22.42 Mbit/s

95th percentile per-packet one-way delay: 62.713 ms

Loss rate: 0.00%

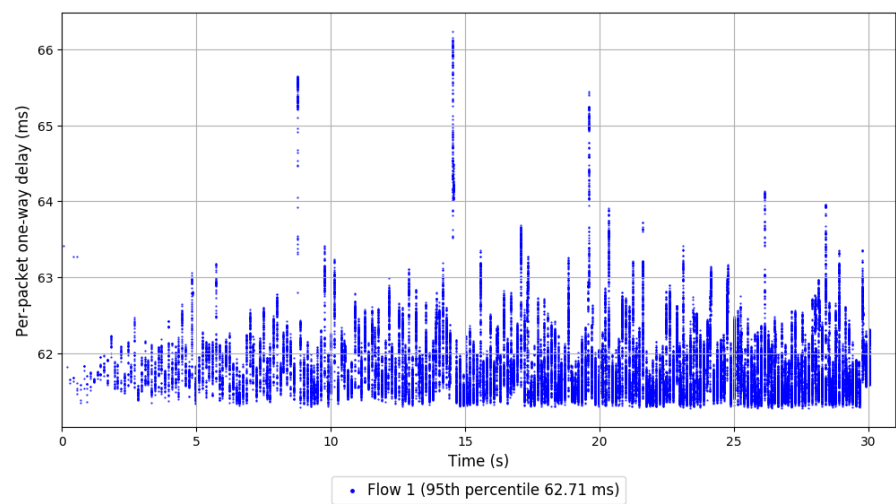
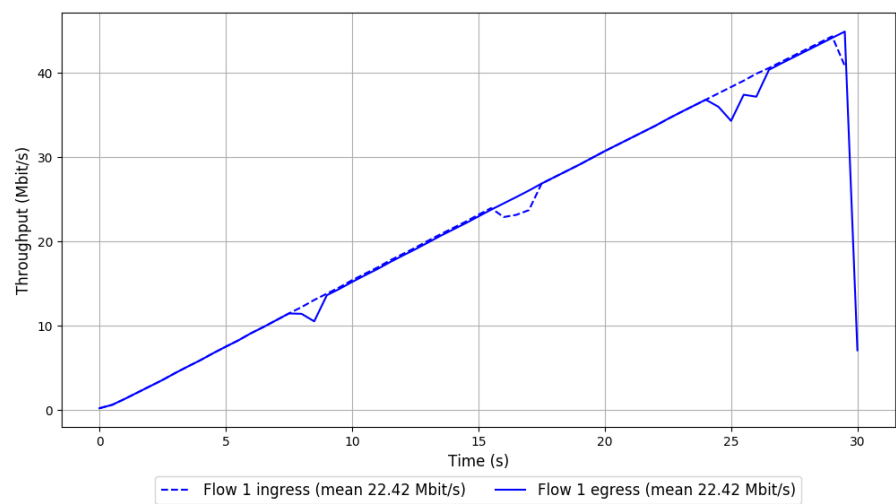
-- Flow 1:

Average throughput: 22.42 Mbit/s

95th percentile per-packet one-way delay: 62.713 ms

Loss rate: 0.00%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-02-28 04:01:30

End at: 2018-02-28 04:02:00

Below is generated by plot.py at 2018-02-28 07:19:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 22.95 Mbit/s

95th percentile per-packet one-way delay: 64.284 ms

Loss rate: 0.00%

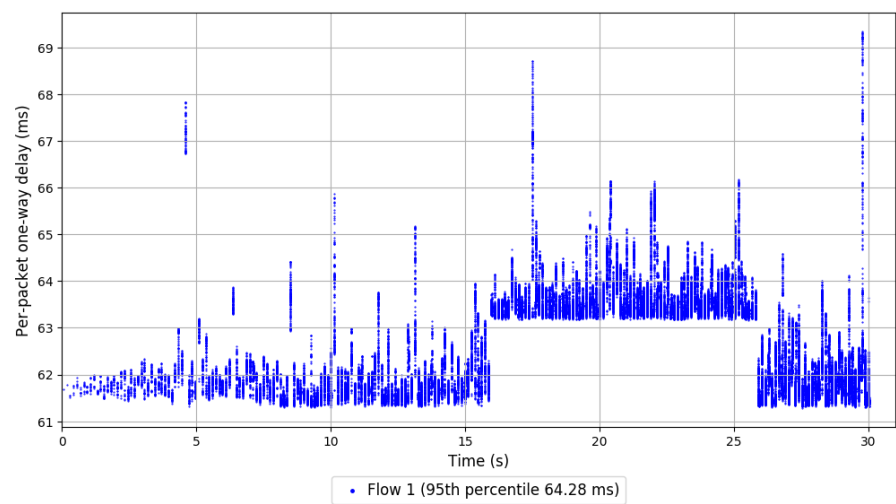
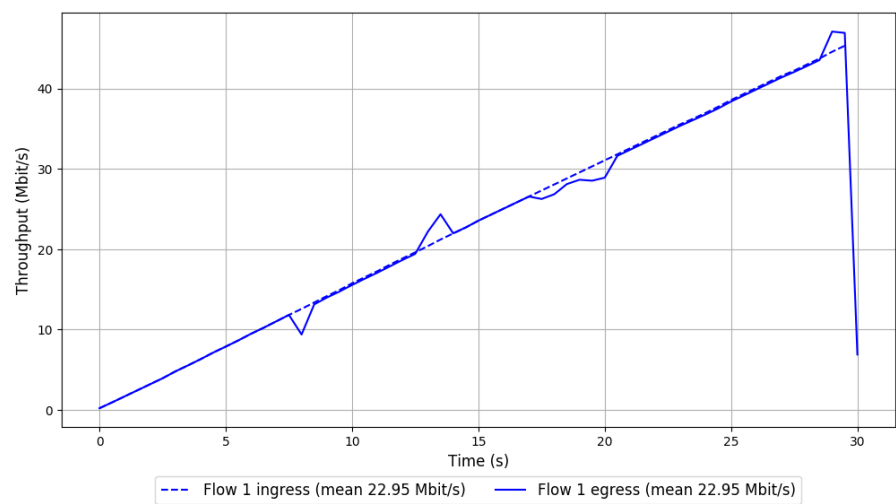
-- Flow 1:

Average throughput: 22.95 Mbit/s

95th percentile per-packet one-way delay: 64.284 ms

Loss rate: 0.00%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-02-28 04:16:05

End at: 2018-02-28 04:16:35

Below is generated by plot.py at 2018-02-28 07:19:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 22.54 Mbit/s

95th percentile per-packet one-way delay: 63.110 ms

Loss rate: 0.00%

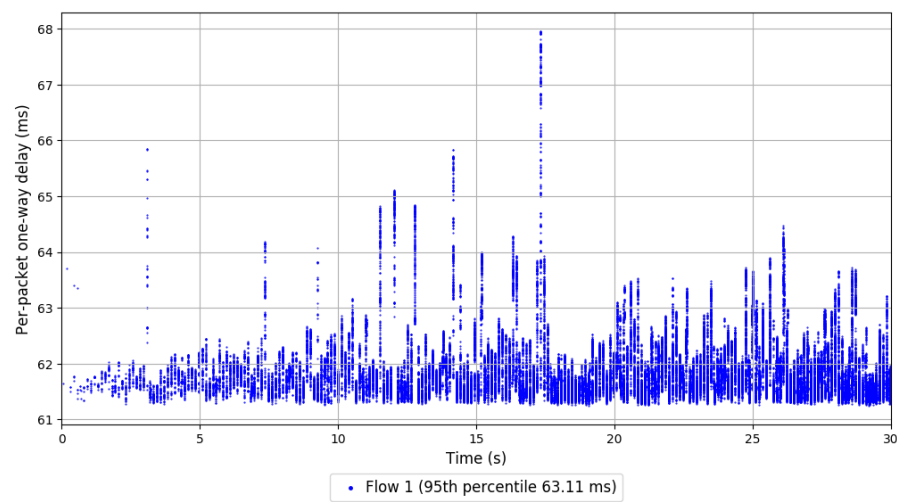
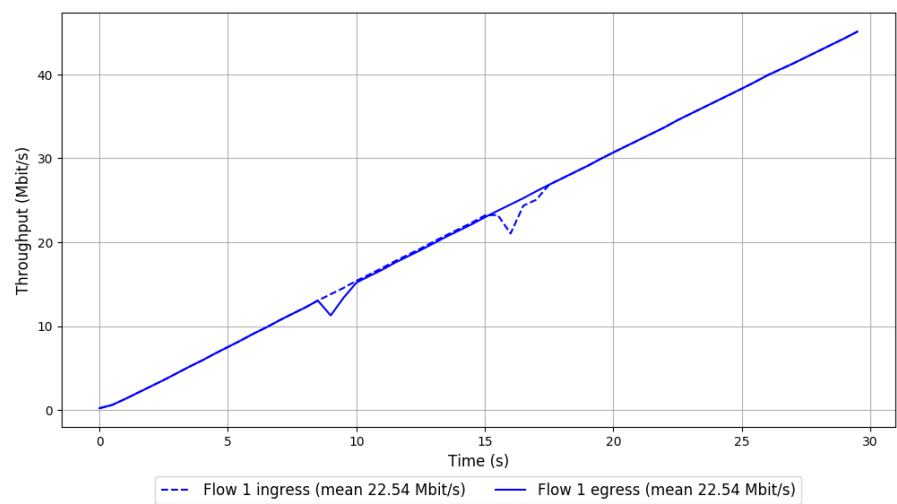
-- Flow 1:

Average throughput: 22.54 Mbit/s

95th percentile per-packet one-way delay: 63.110 ms

Loss rate: 0.00%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-02-28 04:30:41

End at: 2018-02-28 04:31:11

Below is generated by plot.py at 2018-02-28 07:19:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 22.17 Mbit/s

95th percentile per-packet one-way delay: 64.409 ms

Loss rate: 0.00%

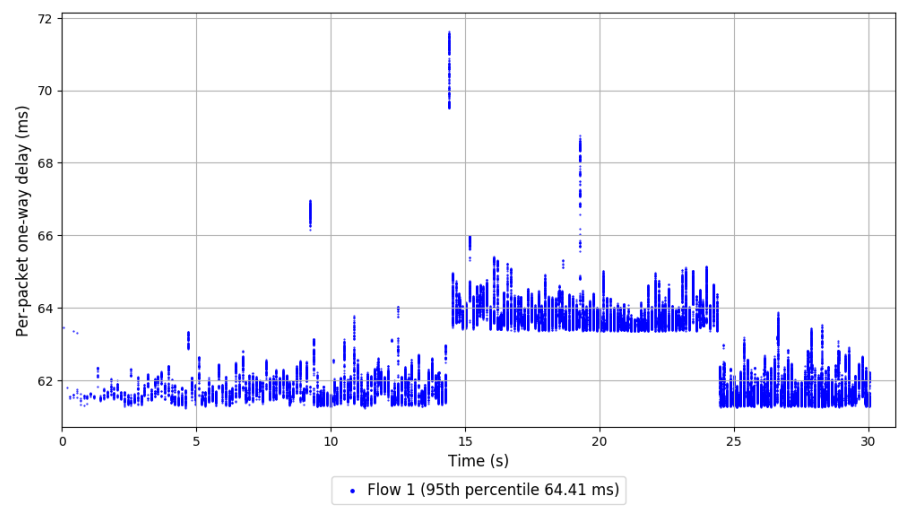
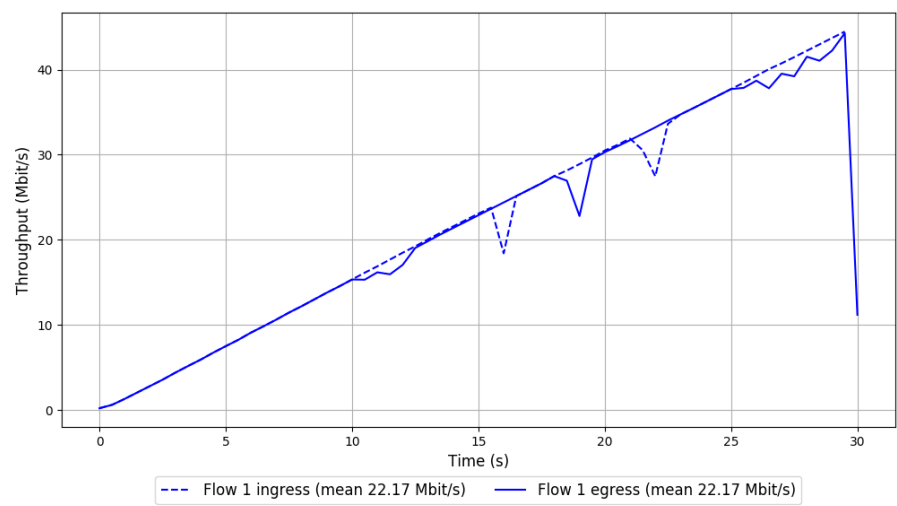
-- Flow 1:

Average throughput: 22.17 Mbit/s

95th percentile per-packet one-way delay: 64.409 ms

Loss rate: 0.00%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-02-28 04:45:14

End at: 2018-02-28 04:45:44

Below is generated by plot.py at 2018-02-28 07:19:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 23.09 Mbit/s

95th percentile per-packet one-way delay: 62.501 ms

Loss rate: 0.00%

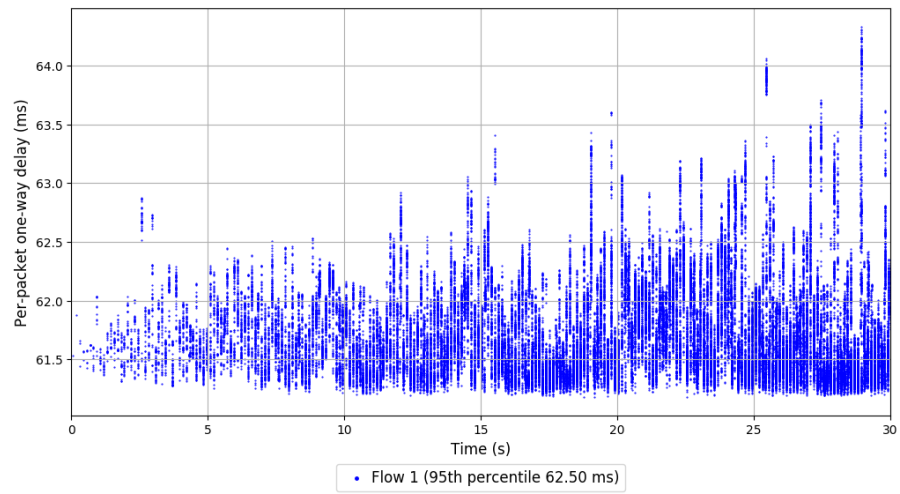
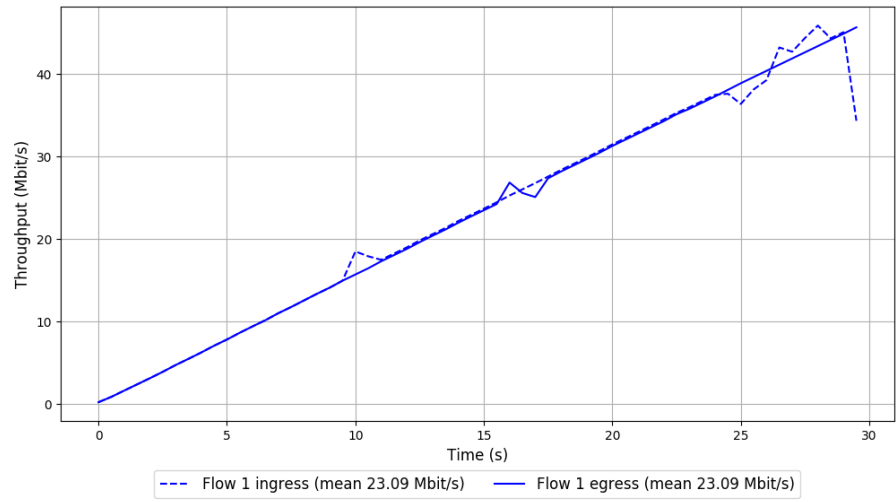
-- Flow 1:

Average throughput: 23.09 Mbit/s

95th percentile per-packet one-way delay: 62.501 ms

Loss rate: 0.00%

Run 10: Report of LEDBAT — Data Link



Run 1: Statistics of PCC

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

End at: 2018-02-28 02:38:59

Below is generated by plot.py at 2018-02-28 07:27:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 325.23 Mbit/s

95th percentile per-packet one-way delay: 125.430 ms

Loss rate: 0.11%

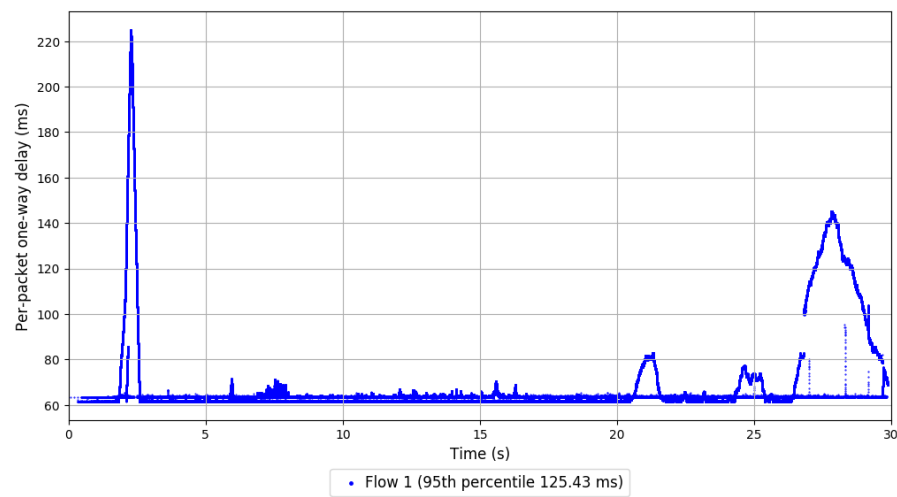
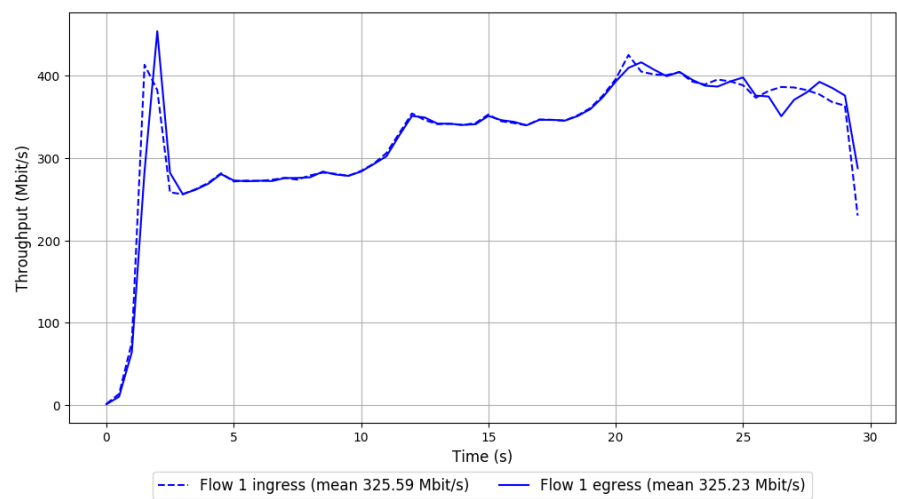
-- Flow 1:

Average throughput: 325.23 Mbit/s

95th percentile per-packet one-way delay: 125.430 ms

Loss rate: 0.11%

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2018-02-28 02:53:04

End at: 2018-02-28 02:53:34

Below is generated by plot.py at 2018-02-28 07:28:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 340.81 Mbit/s

95th percentile per-packet one-way delay: 97.276 ms

Loss rate: 0.23%

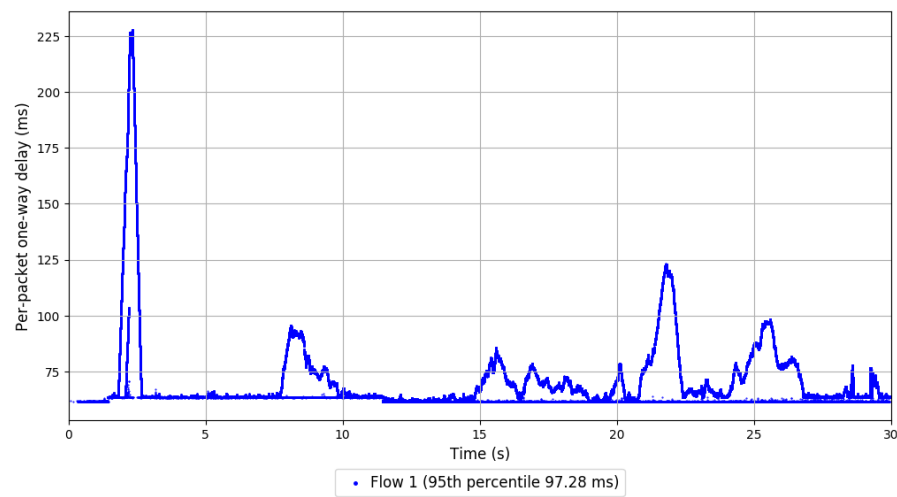
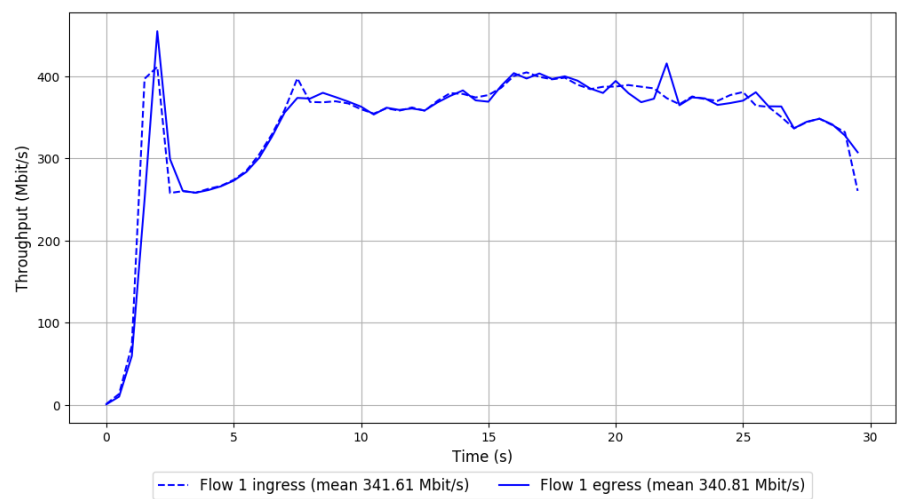
-- Flow 1:

Average throughput: 340.81 Mbit/s

95th percentile per-packet one-way delay: 97.276 ms

Loss rate: 0.23%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-02-28 03:07:29

End at: 2018-02-28 03:07:59

Below is generated by plot.py at 2018-02-28 07:28:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 349.24 Mbit/s

95th percentile per-packet one-way delay: 160.303 ms

Loss rate: 0.50%

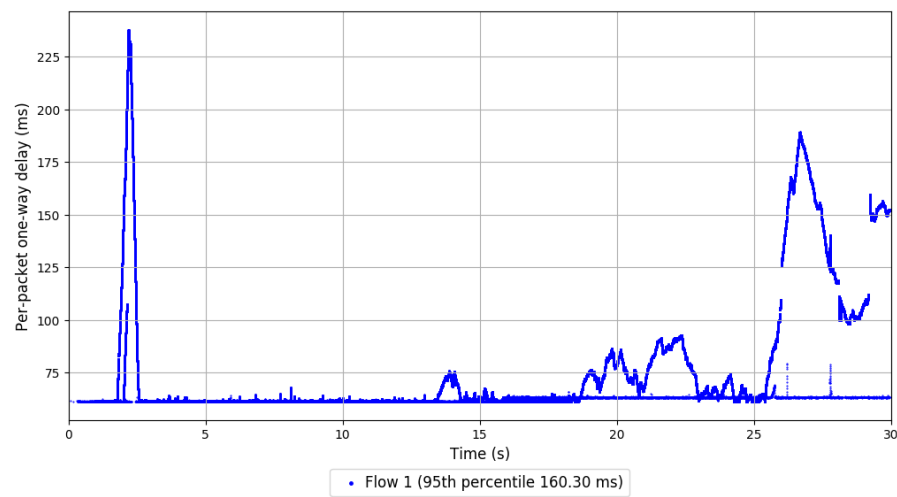
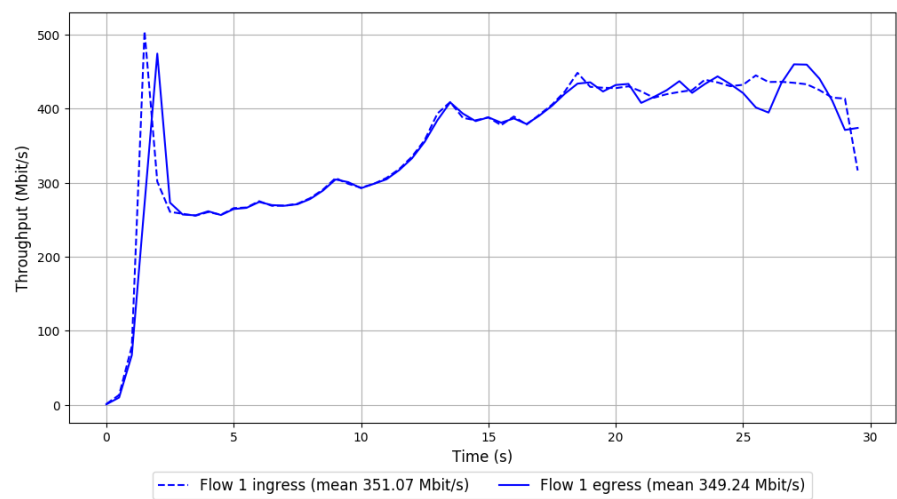
-- Flow 1:

Average throughput: 349.24 Mbit/s

95th percentile per-packet one-way delay: 160.303 ms

Loss rate: 0.50%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-02-28 03:21:59

End at: 2018-02-28 03:22:29

Below is generated by plot.py at 2018-02-28 07:28:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 357.87 Mbit/s

95th percentile per-packet one-way delay: 96.592 ms

Loss rate: 0.08%

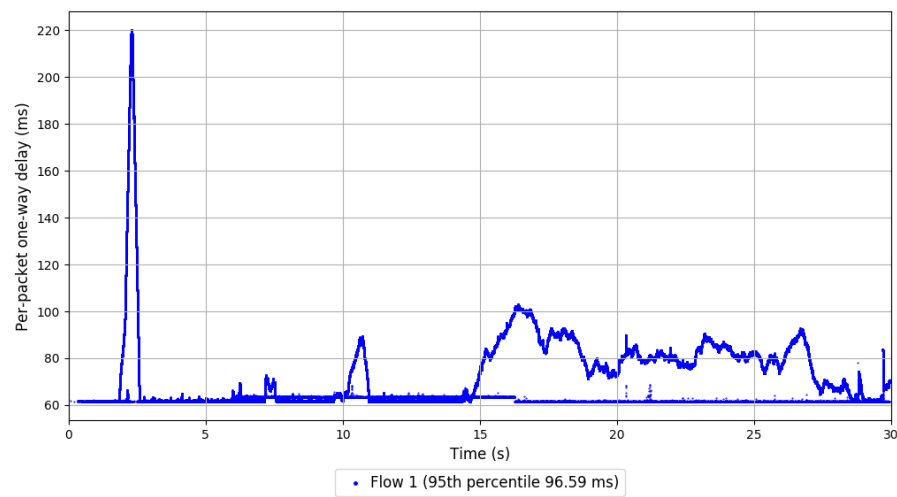
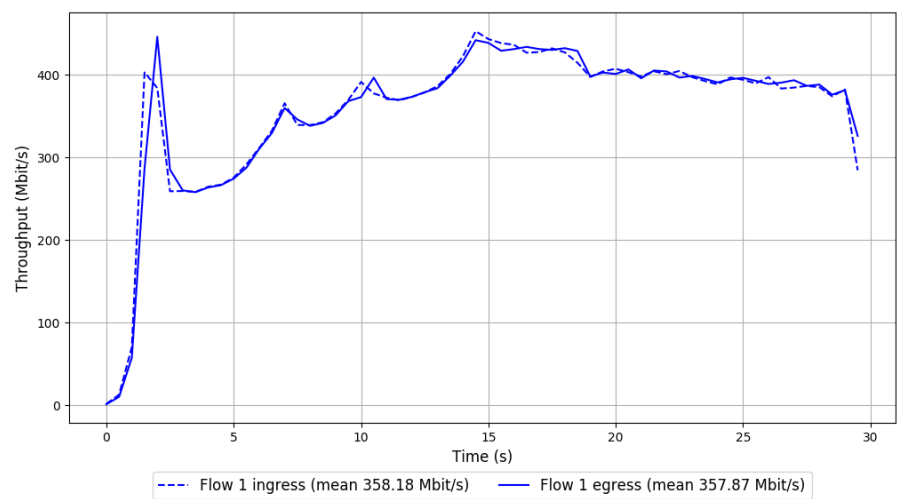
-- Flow 1:

Average throughput: 357.87 Mbit/s

95th percentile per-packet one-way delay: 96.592 ms

Loss rate: 0.08%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-02-28 03:36:26

End at: 2018-02-28 03:36:56

Below is generated by plot.py at 2018-02-28 07:28:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 329.66 Mbit/s

95th percentile per-packet one-way delay: 94.445 ms

Loss rate: 0.07%

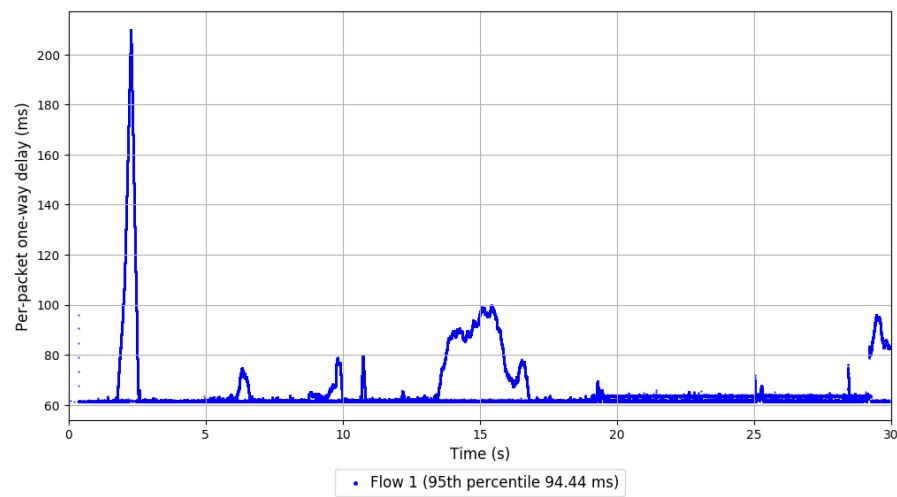
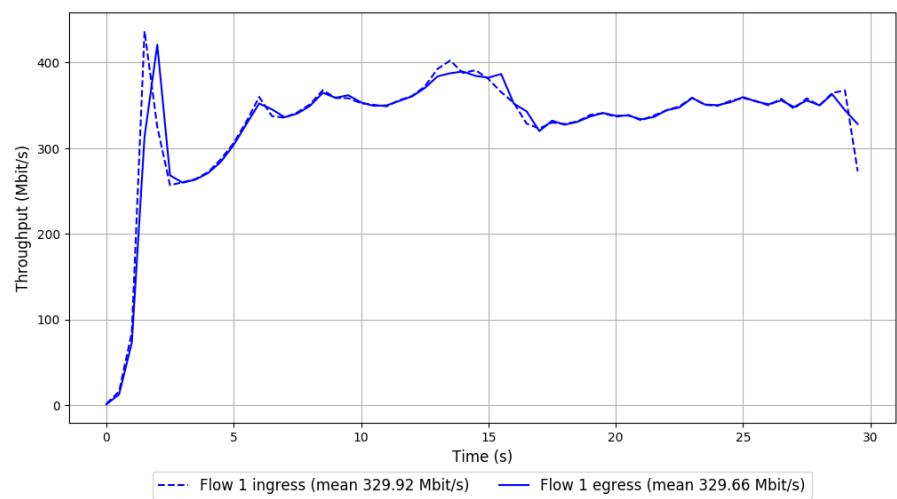
-- Flow 1:

Average throughput: 329.66 Mbit/s

95th percentile per-packet one-way delay: 94.445 ms

Loss rate: 0.07%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-02-28 03:50:54

End at: 2018-02-28 03:51:24

Below is generated by plot.py at 2018-02-28 07:29:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 364.41 Mbit/s

95th percentile per-packet one-way delay: 98.692 ms

Loss rate: 0.16%

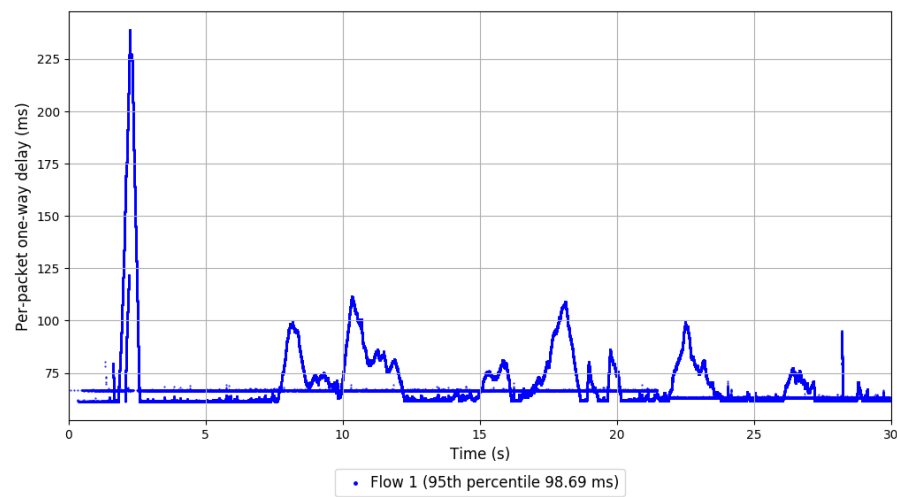
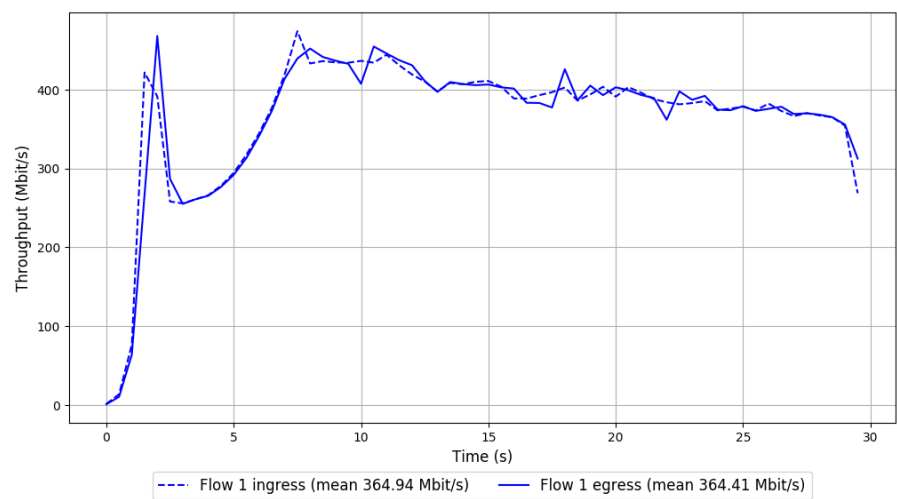
-- Flow 1:

Average throughput: 364.41 Mbit/s

95th percentile per-packet one-way delay: 98.692 ms

Loss rate: 0.16%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-02-28 04:05:27

End at: 2018-02-28 04:05:57

Below is generated by plot.py at 2018-02-28 07:29:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 359.74 Mbit/s

95th percentile per-packet one-way delay: 121.803 ms

Loss rate: 0.01%

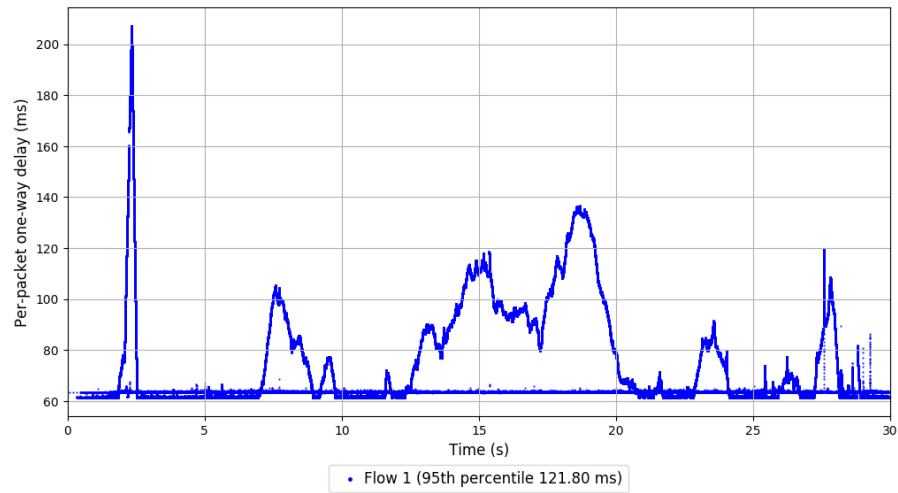
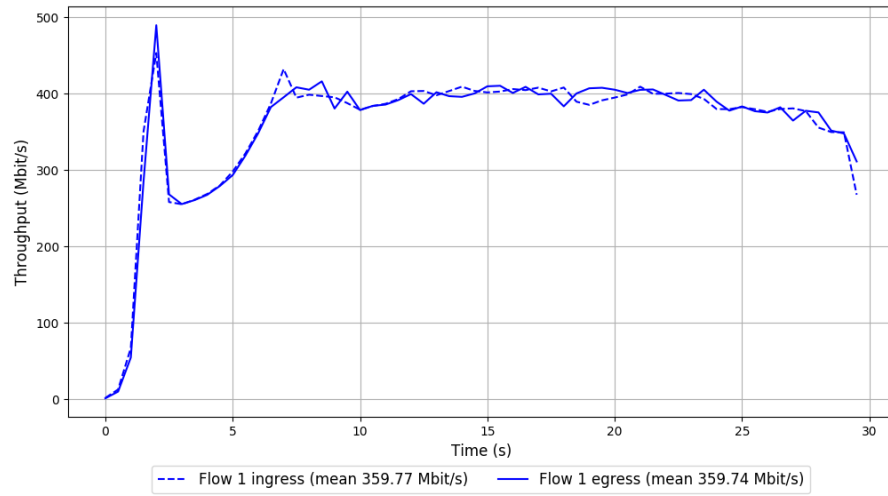
-- Flow 1:

Average throughput: 359.74 Mbit/s

95th percentile per-packet one-way delay: 121.803 ms

Loss rate: 0.01%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-02-28 04:20:04

End at: 2018-02-28 04:20:34

Below is generated by plot.py at 2018-02-28 07:29:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 352.67 Mbit/s

95th percentile per-packet one-way delay: 105.361 ms

Loss rate: 0.24%

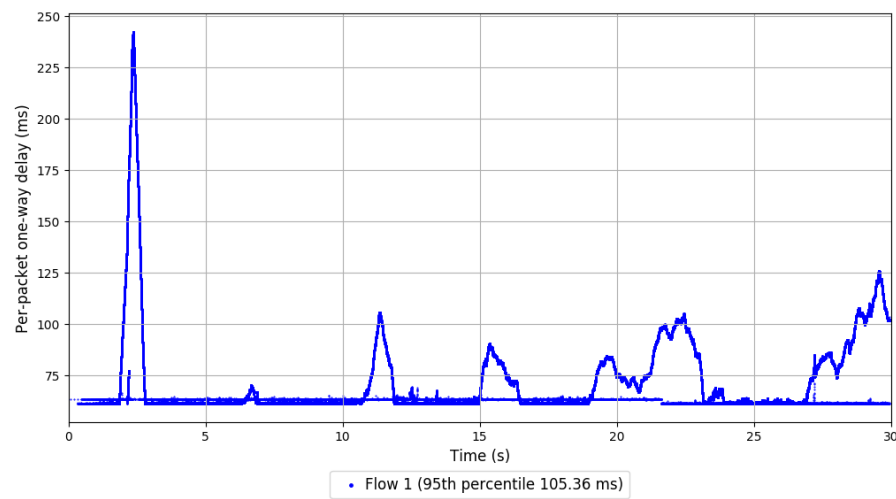
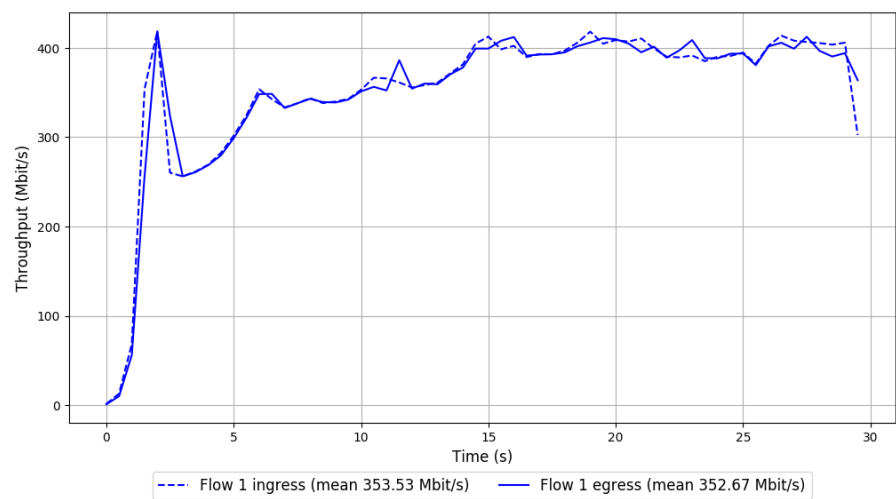
-- Flow 1:

Average throughput: 352.67 Mbit/s

95th percentile per-packet one-way delay: 105.361 ms

Loss rate: 0.24%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2018-02-28 04:34:34

End at: 2018-02-28 04:35:04

Below is generated by plot.py at 2018-02-28 07:36:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 340.87 Mbit/s

95th percentile per-packet one-way delay: 148.985 ms

Loss rate: 0.18%

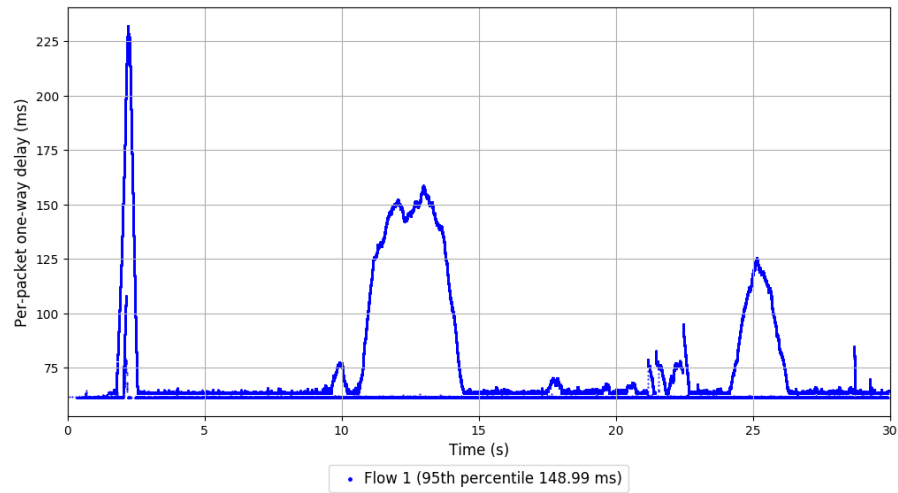
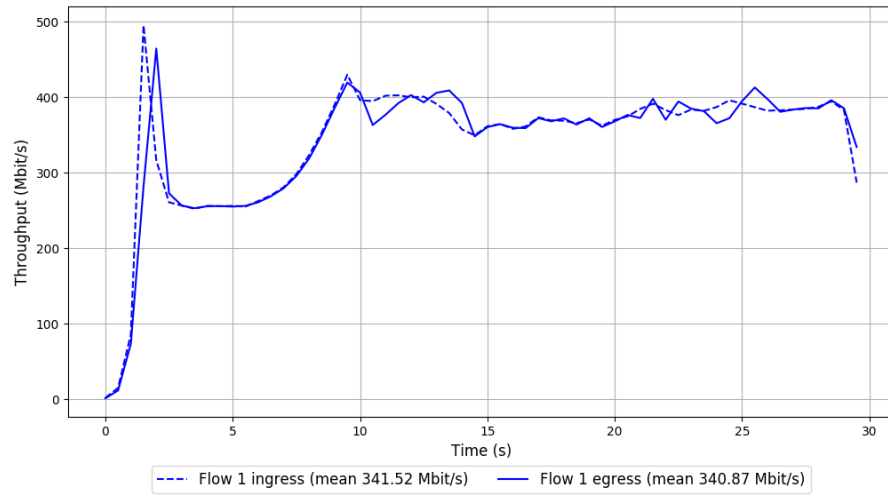
-- Flow 1:

Average throughput: 340.87 Mbit/s

95th percentile per-packet one-way delay: 148.985 ms

Loss rate: 0.18%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2018-02-28 04:49:15

End at: 2018-02-28 04:49:45

Below is generated by plot.py at 2018-02-28 07:37:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 354.07 Mbit/s

95th percentile per-packet one-way delay: 138.474 ms

Loss rate: 0.05%

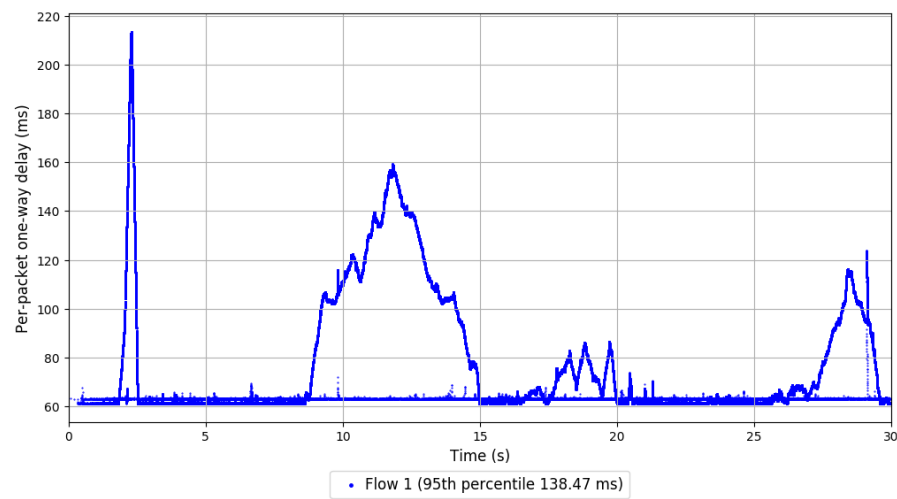
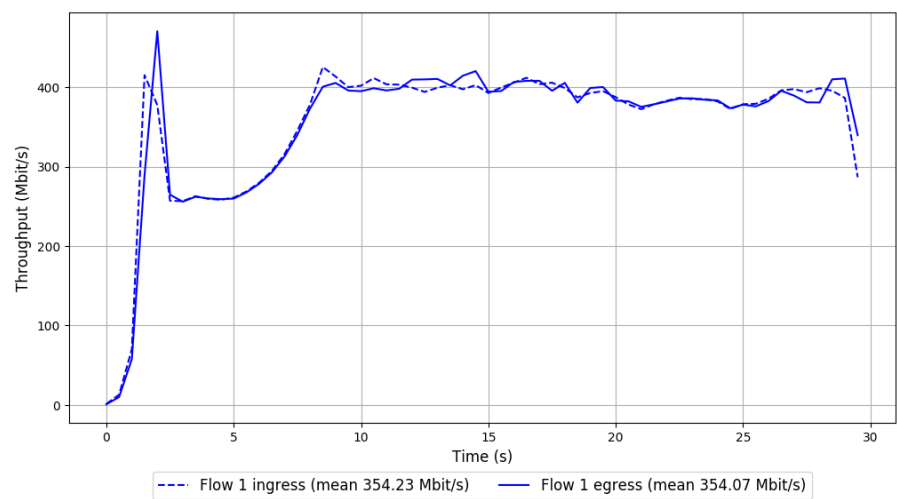
-- Flow 1:

Average throughput: 354.07 Mbit/s

95th percentile per-packet one-way delay: 138.474 ms

Loss rate: 0.05%

Run 10: Report of PCC — Data Link

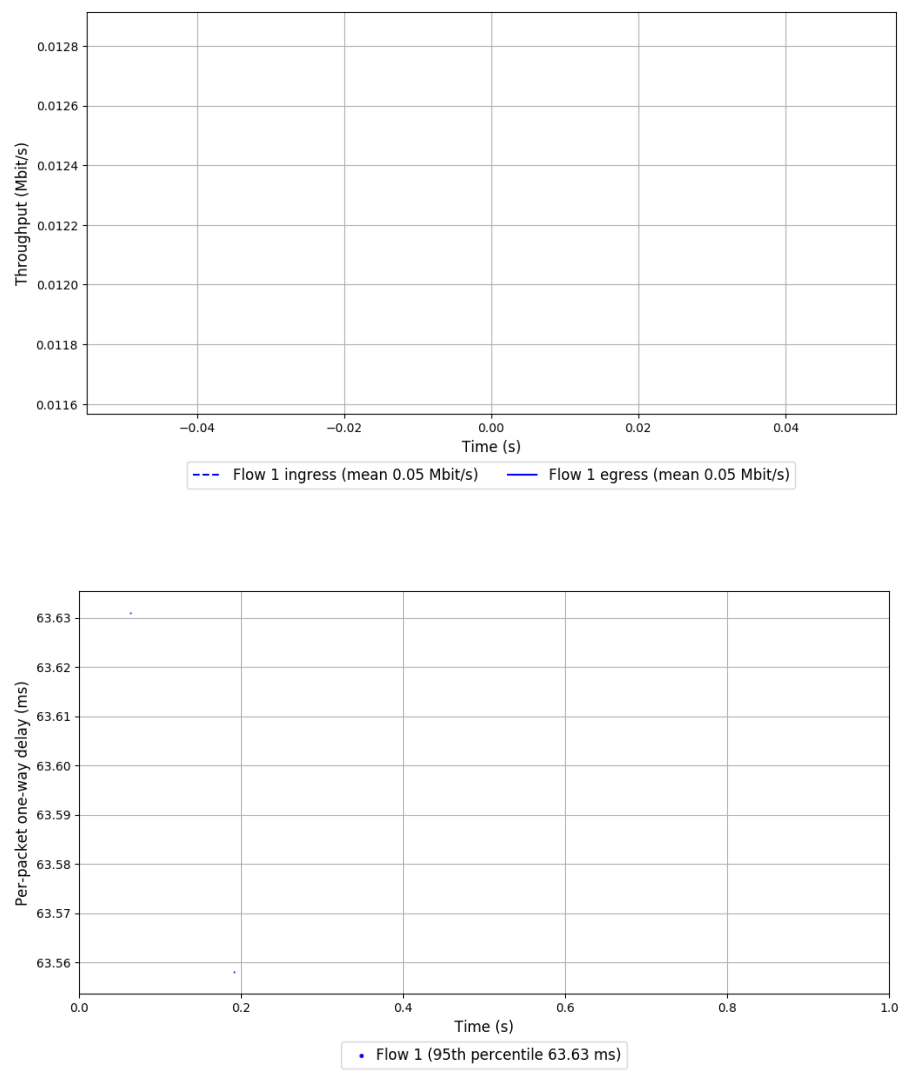


Run 1: Statistics of QUIC Cubic

Start at: 2018-02-28 02:40:03

End at: 2018-02-28 02:40:33

Run 1: Report of QUIC Cubic — Data Link

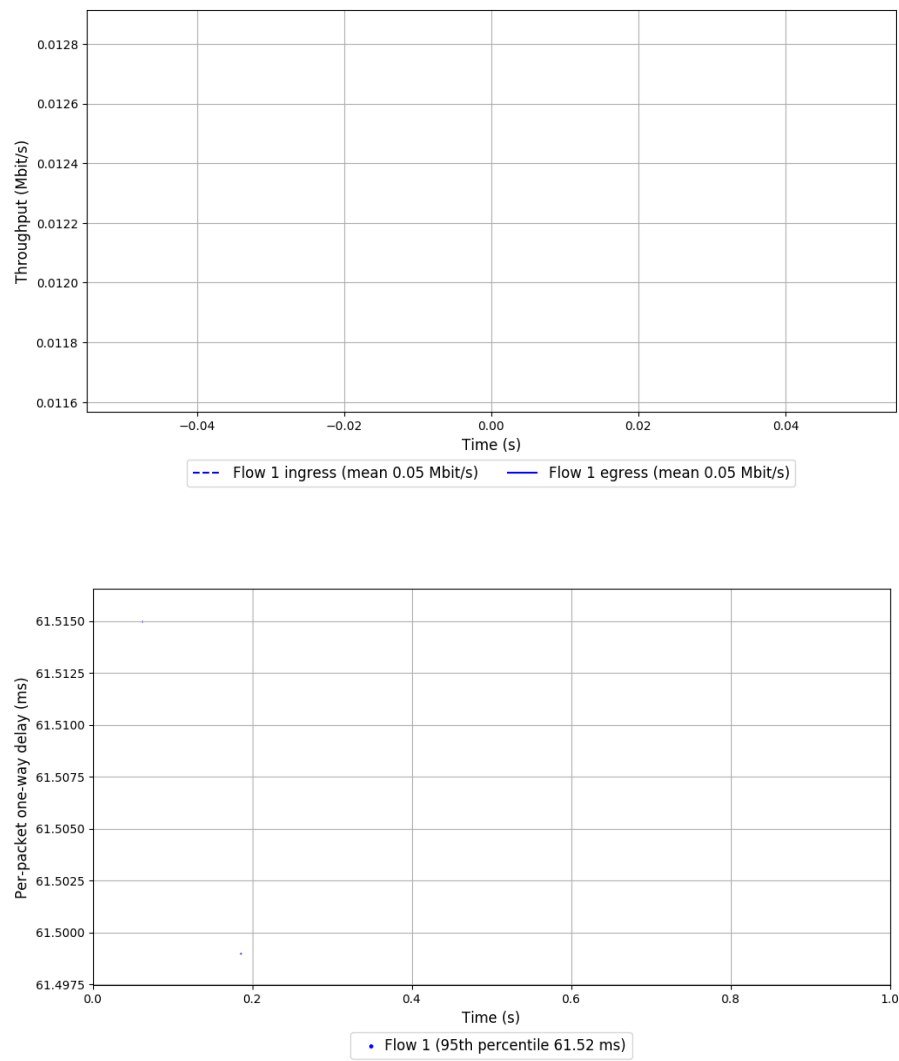


Run 2: Statistics of QUIC Cubic

Start at: 2018-02-28 02:54:38

End at: 2018-02-28 02:55:08

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-02-28 03:09:06

End at: 2018-02-28 03:09:36

Below is generated by plot.py at 2018-02-28 07:37:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 55.93 Mbit/s

95th percentile per-packet one-way delay: 63.509 ms

Loss rate: 0.00%

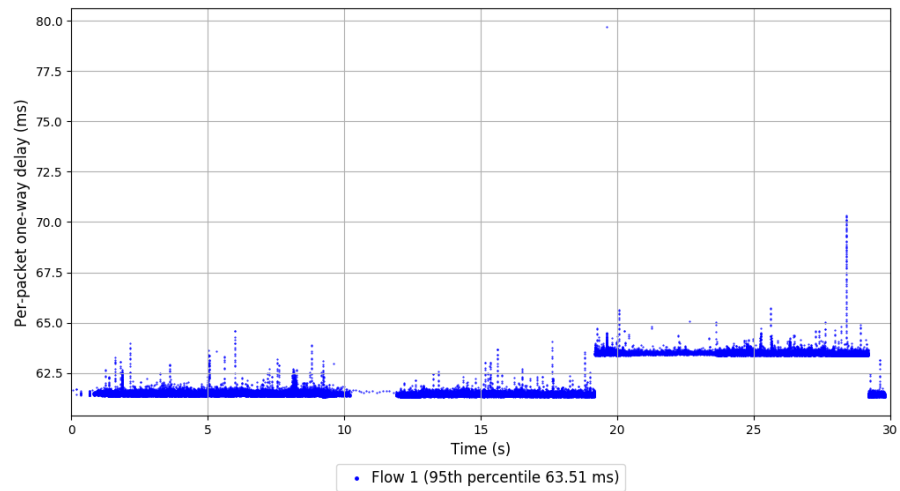
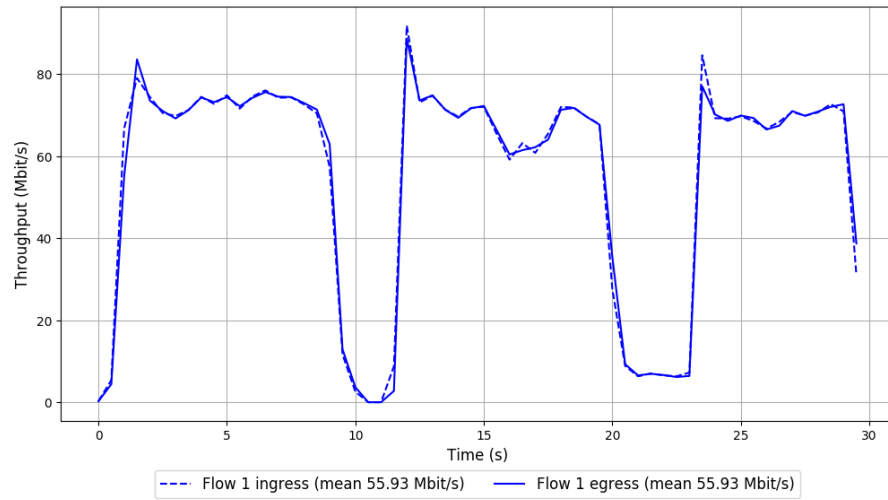
-- Flow 1:

Average throughput: 55.93 Mbit/s

95th percentile per-packet one-way delay: 63.509 ms

Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-02-28 03:23:35

End at: 2018-02-28 03:24:05

Below is generated by plot.py at 2018-02-28 07:37:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 48.38 Mbit/s

95th percentile per-packet one-way delay: 66.741 ms

Loss rate: 0.00%

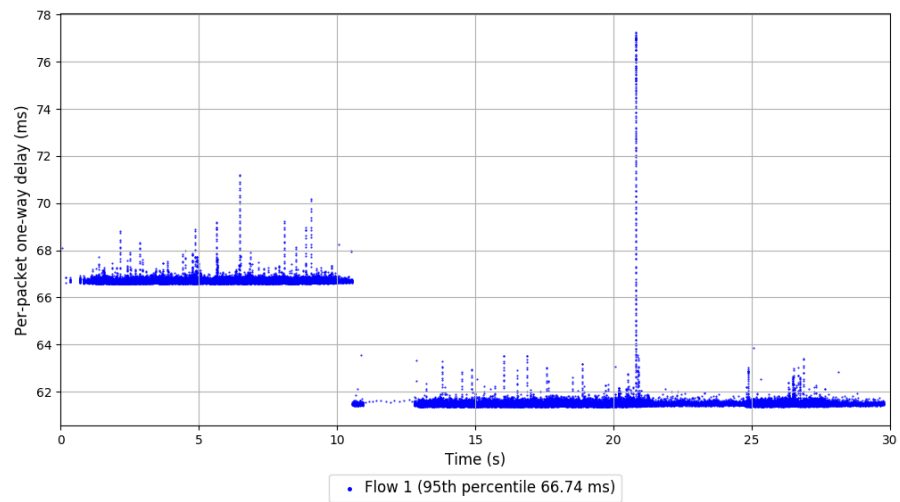
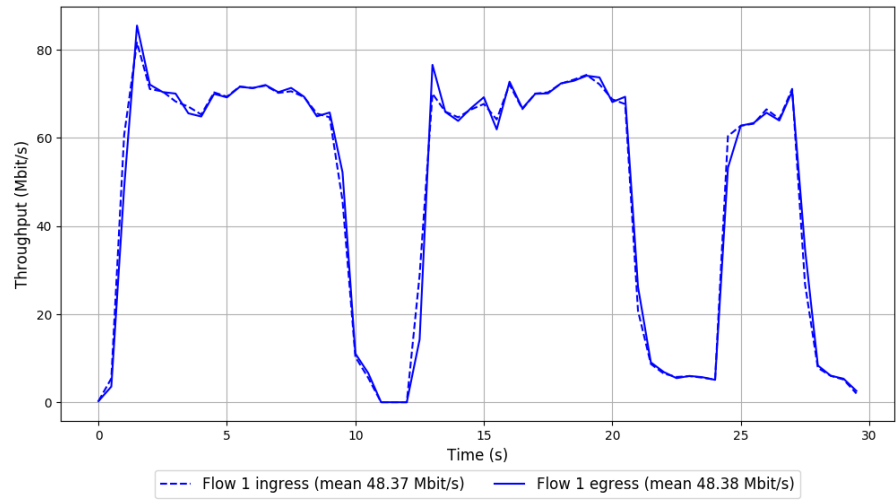
-- Flow 1:

Average throughput: 48.38 Mbit/s

95th percentile per-packet one-way delay: 66.741 ms

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-02-28 03:38:03

End at: 2018-02-28 03:38:33

Below is generated by plot.py at 2018-02-28 07:37:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 61.35 Mbit/s

95th percentile per-packet one-way delay: 63.484 ms

Loss rate: 0.00%

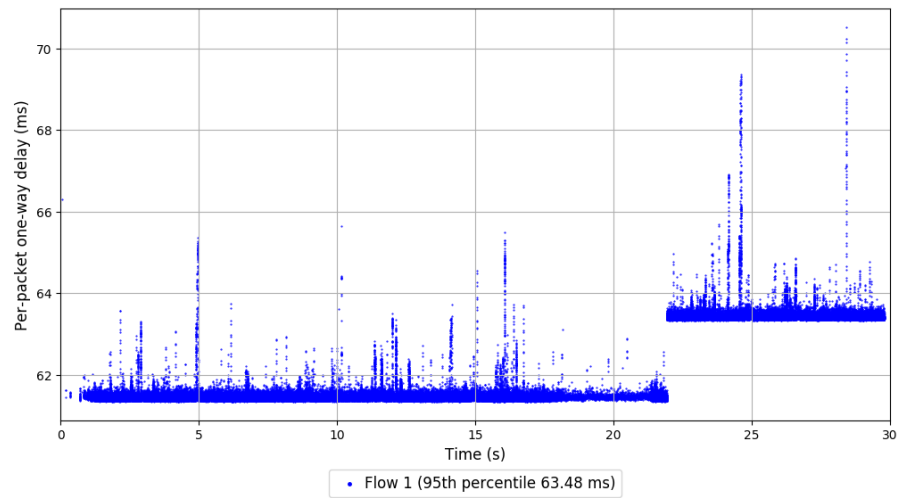
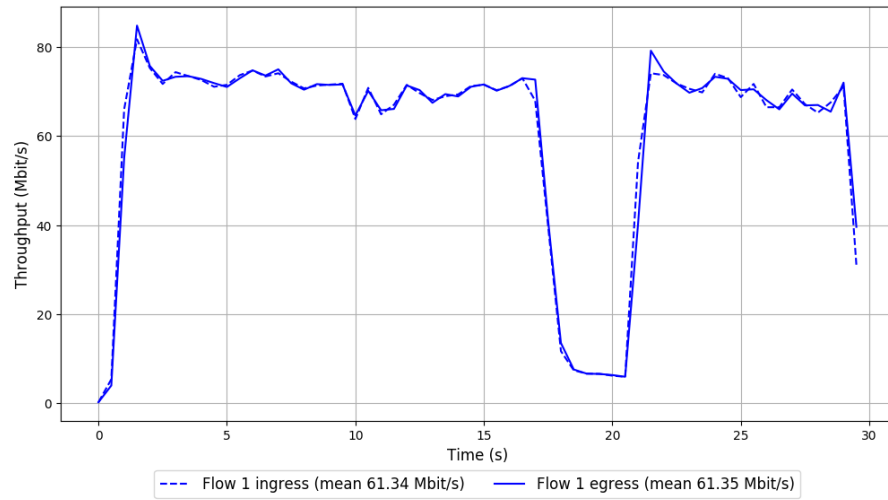
-- Flow 1:

Average throughput: 61.35 Mbit/s

95th percentile per-packet one-way delay: 63.484 ms

Loss rate: 0.00%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-02-28 03:52:30

End at: 2018-02-28 03:53:00

Below is generated by plot.py at 2018-02-28 07:37:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.69 Mbit/s

95th percentile per-packet one-way delay: 63.419 ms

Loss rate: 0.00%

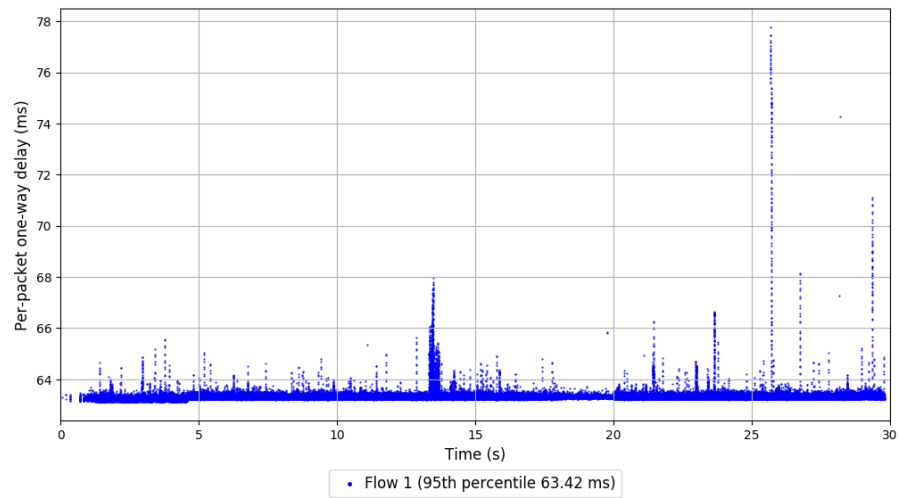
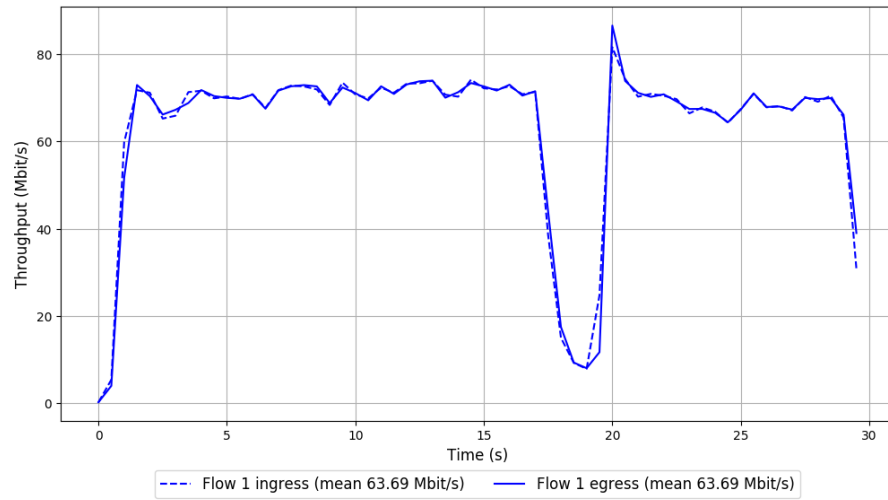
-- Flow 1:

Average throughput: 63.69 Mbit/s

95th percentile per-packet one-way delay: 63.419 ms

Loss rate: 0.00%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-02-28 04:07:03

End at: 2018-02-28 04:07:33

Below is generated by plot.py at 2018-02-28 07:37:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.22 Mbit/s

95th percentile per-packet one-way delay: 63.384 ms

Loss rate: 0.00%

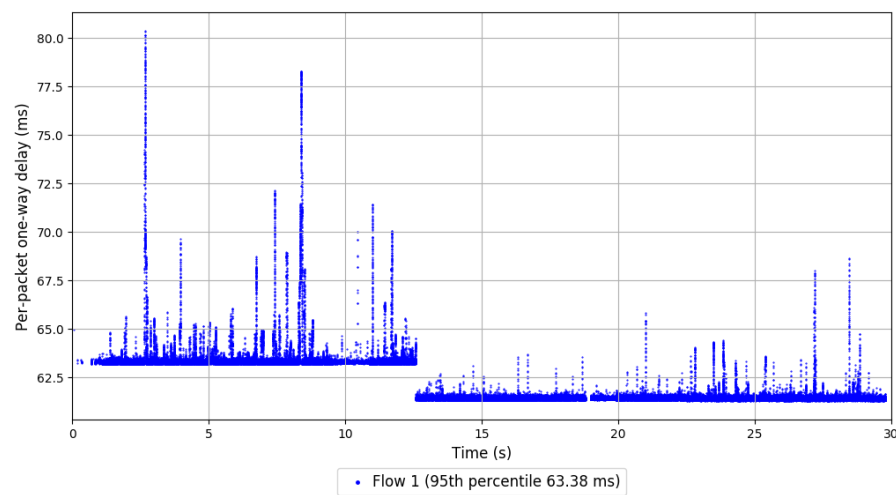
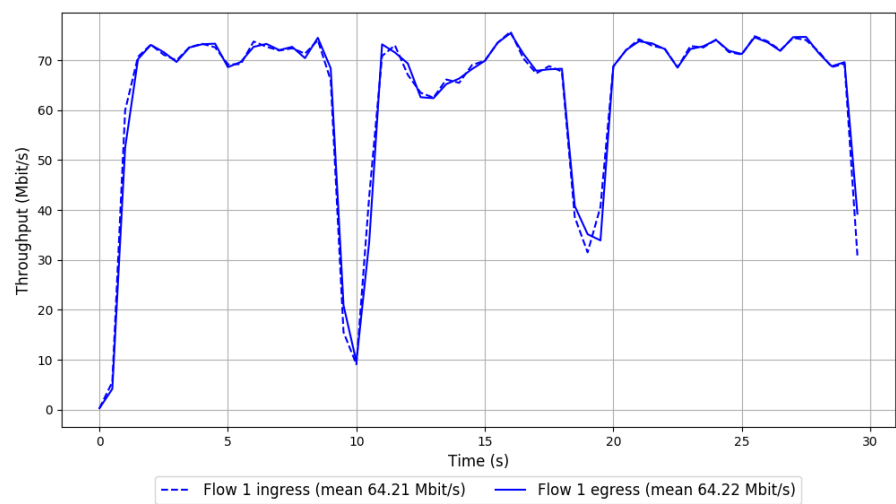
-- Flow 1:

Average throughput: 64.22 Mbit/s

95th percentile per-packet one-way delay: 63.384 ms

Loss rate: 0.00%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-02-28 04:21:40

End at: 2018-02-28 04:22:10

Below is generated by plot.py at 2018-02-28 07:37:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 51.57 Mbit/s

95th percentile per-packet one-way delay: 61.569 ms

Loss rate: 0.00%

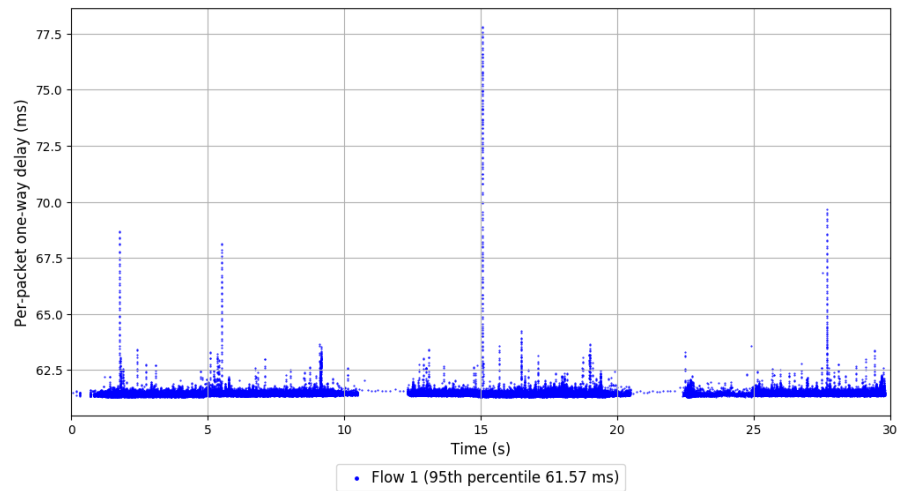
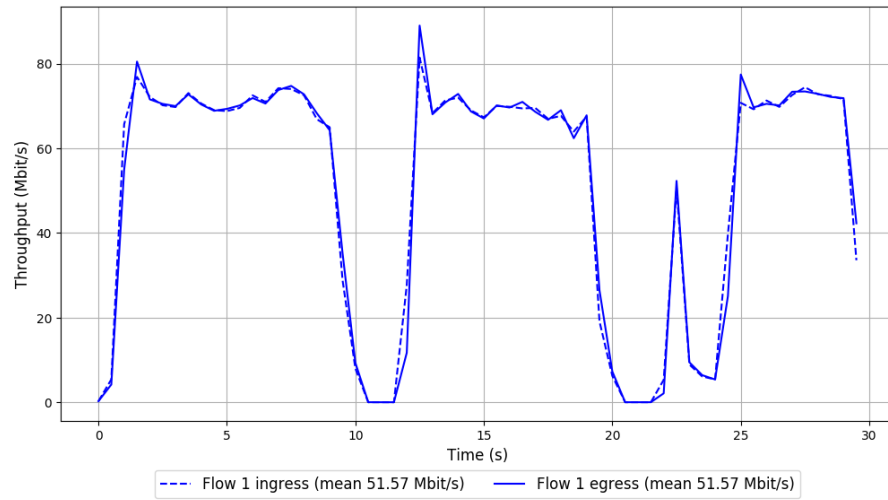
-- Flow 1:

Average throughput: 51.57 Mbit/s

95th percentile per-packet one-way delay: 61.569 ms

Loss rate: 0.00%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-02-28 04:36:09

End at: 2018-02-28 04:36:39

Below is generated by plot.py at 2018-02-28 07:37:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 62.76 Mbit/s

95th percentile per-packet one-way delay: 63.355 ms

Loss rate: 0.00%

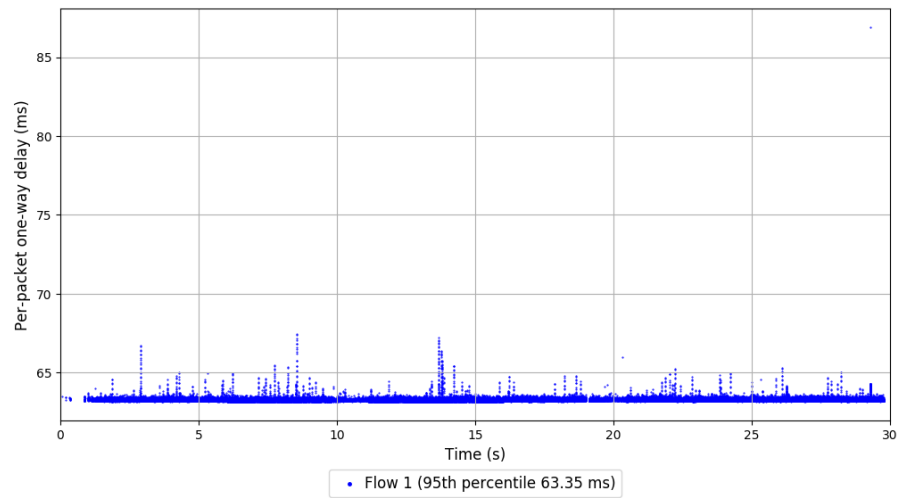
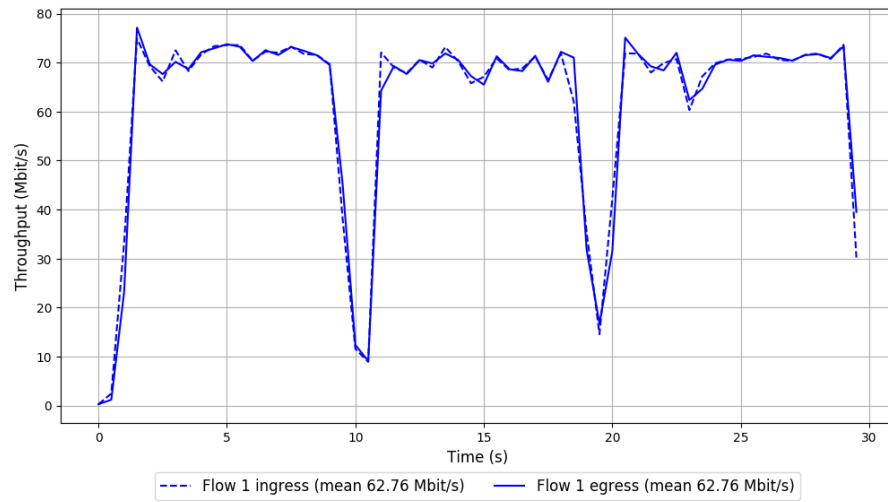
-- Flow 1:

Average throughput: 62.76 Mbit/s

95th percentile per-packet one-way delay: 63.355 ms

Loss rate: 0.00%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-02-28 04:50:51

End at: 2018-02-28 04:51:21

Below is generated by plot.py at 2018-02-28 07:37:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 66.62 Mbit/s

95th percentile per-packet one-way delay: 63.349 ms

Loss rate: 0.00%

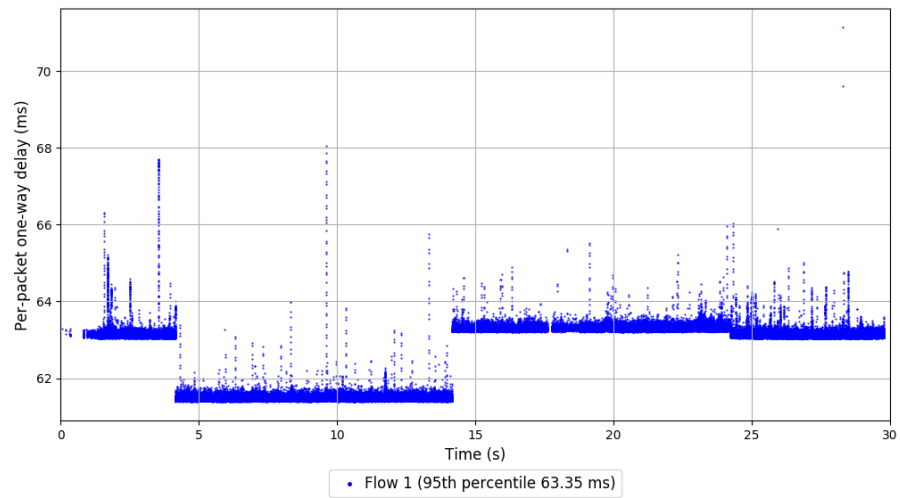
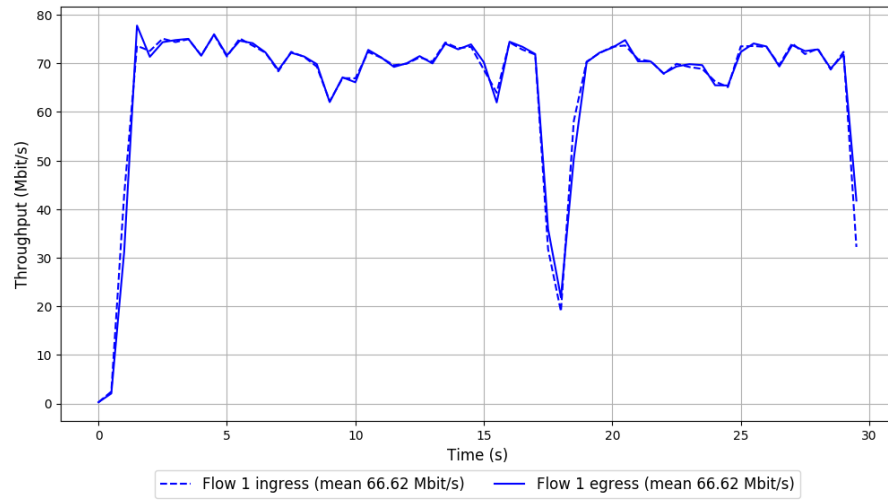
-- Flow 1:

Average throughput: 66.62 Mbit/s

95th percentile per-packet one-way delay: 63.349 ms

Loss rate: 0.00%

Run 10: Report of QUIC Cubic — Data Link

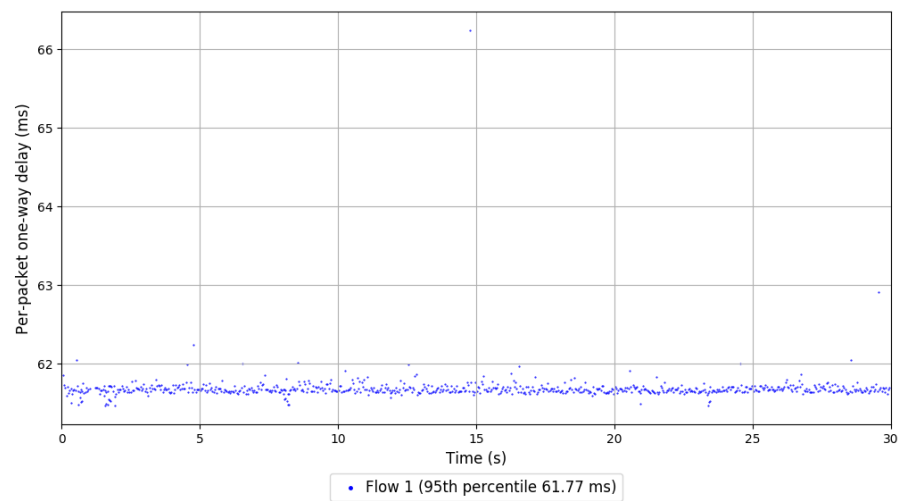
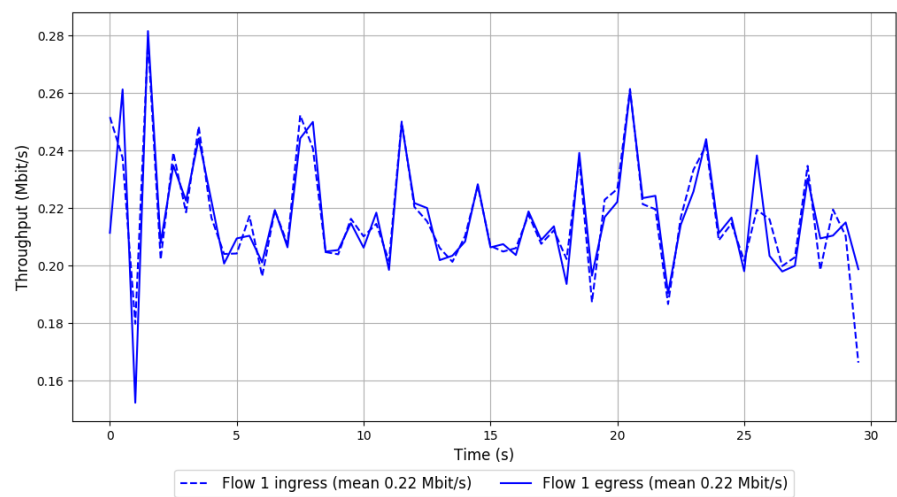


```
Run 1: Statistics of SCReAM

Start at: 2018-02-28 02:40:41
End at: 2018-02-28 02:41:11

# Below is generated by plot.py at 2018-02-28 07:37:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 61.775 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 61.775 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

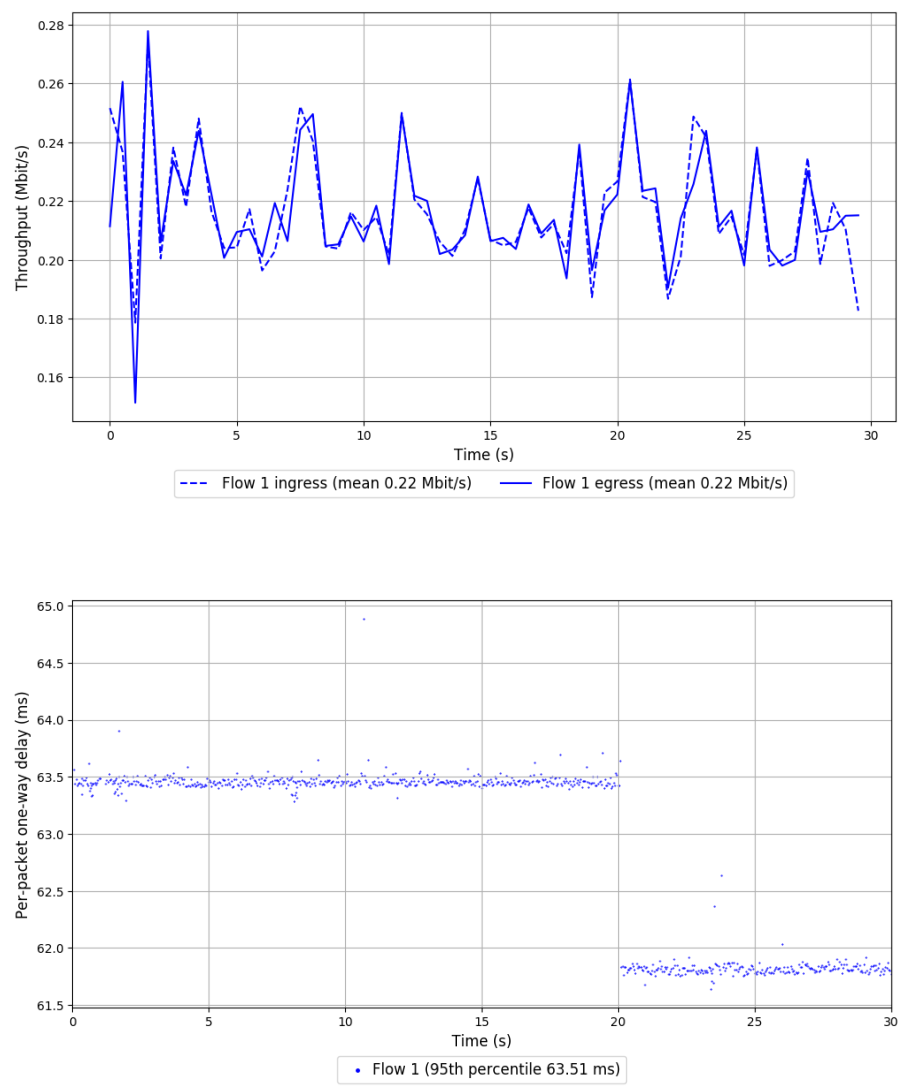


```
Run 2: Statistics of SCReAM

Start at: 2018-02-28 02:55:15
End at: 2018-02-28 02:55:45

# Below is generated by plot.py at 2018-02-28 07:37:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.512 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.512 ms
Loss rate: 0.00%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-02-28 03:09:47

End at: 2018-02-28 03:10:17

Below is generated by plot.py at 2018-02-28 07:37:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.808 ms

Loss rate: 0.00%

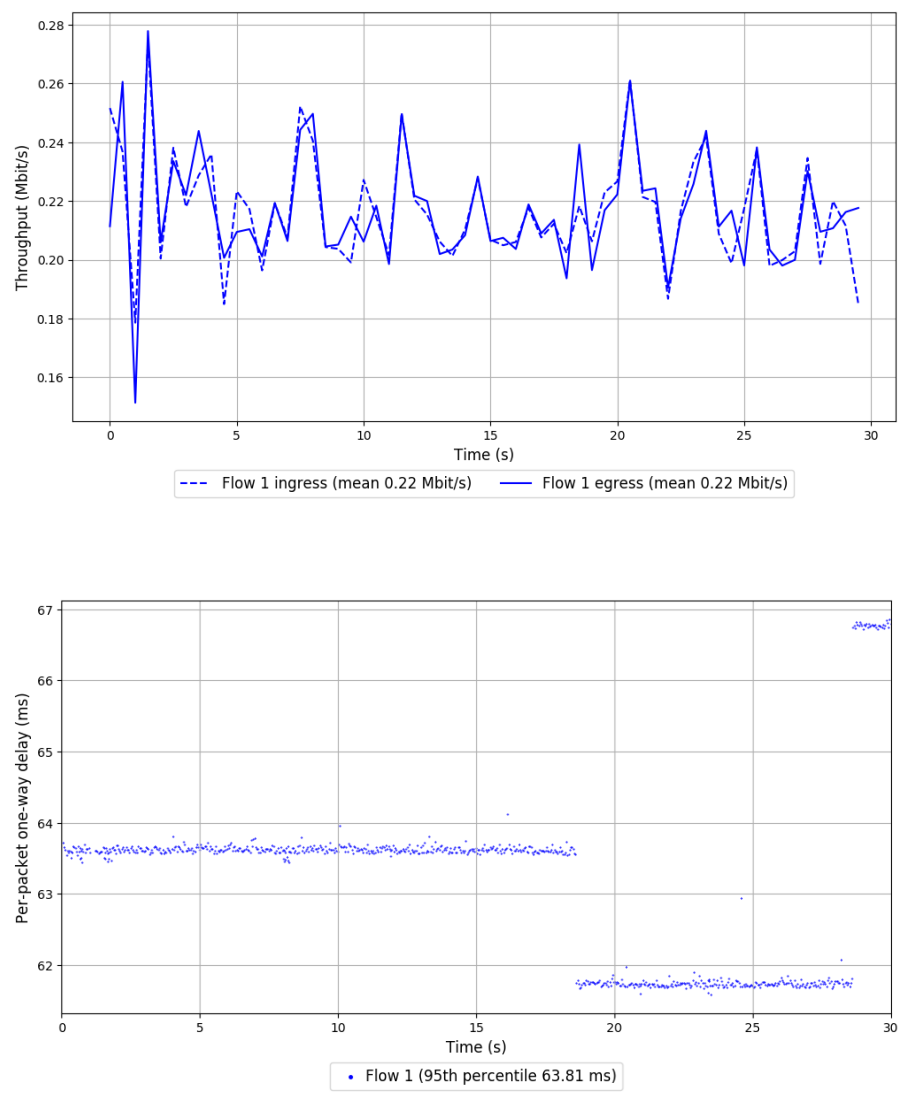
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.808 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2018-02-28 03:24:15

End at: 2018-02-28 03:24:45

Below is generated by plot.py at 2018-02-28 07:37:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 66.925 ms

Loss rate: 0.00%

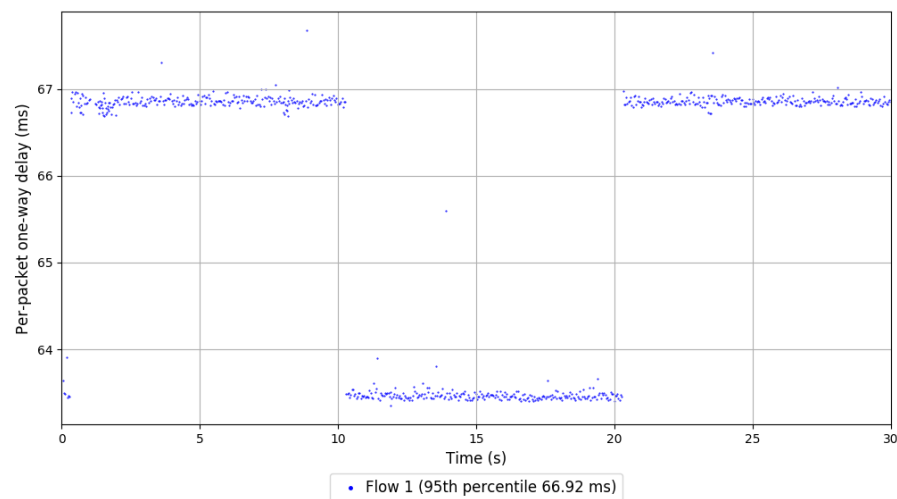
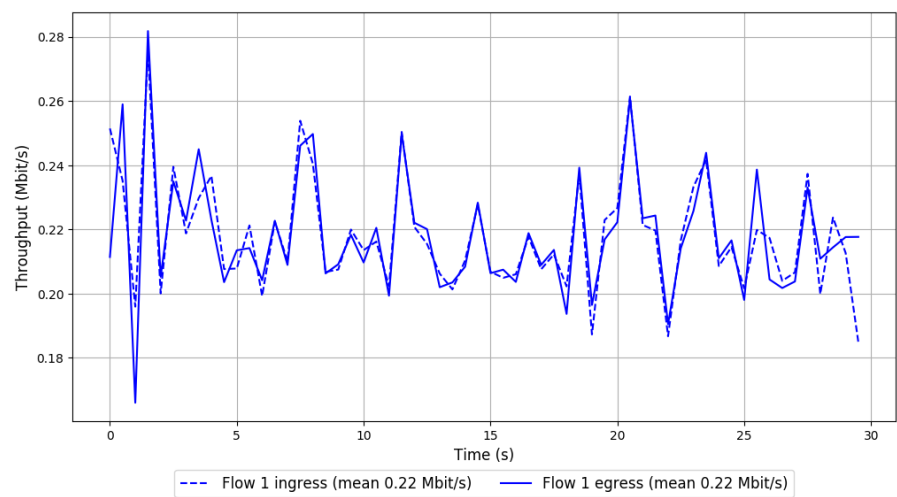
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 66.925 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-02-28 03:38:45

End at: 2018-02-28 03:39:15

Below is generated by plot.py at 2018-02-28 07:37:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.531 ms

Loss rate: 0.00%

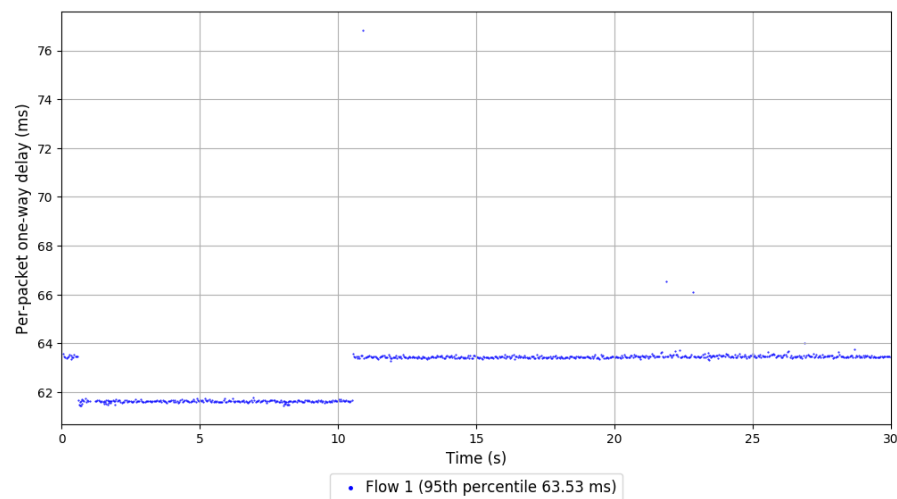
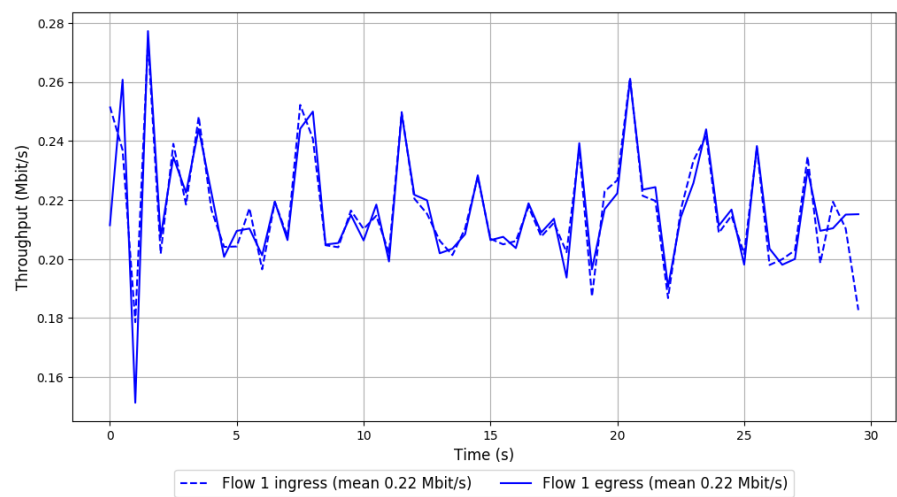
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.531 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-02-28 03:53:11

End at: 2018-02-28 03:53:41

Below is generated by plot.py at 2018-02-28 07:37:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.615 ms

Loss rate: 0.00%

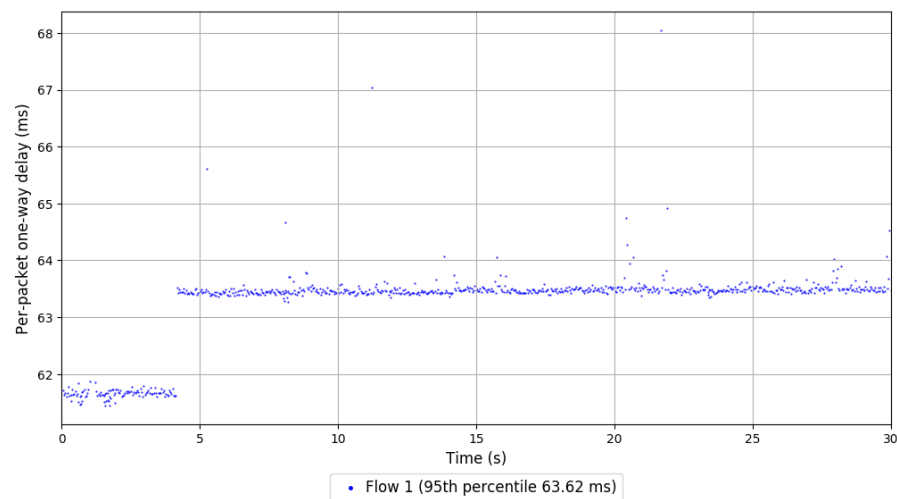
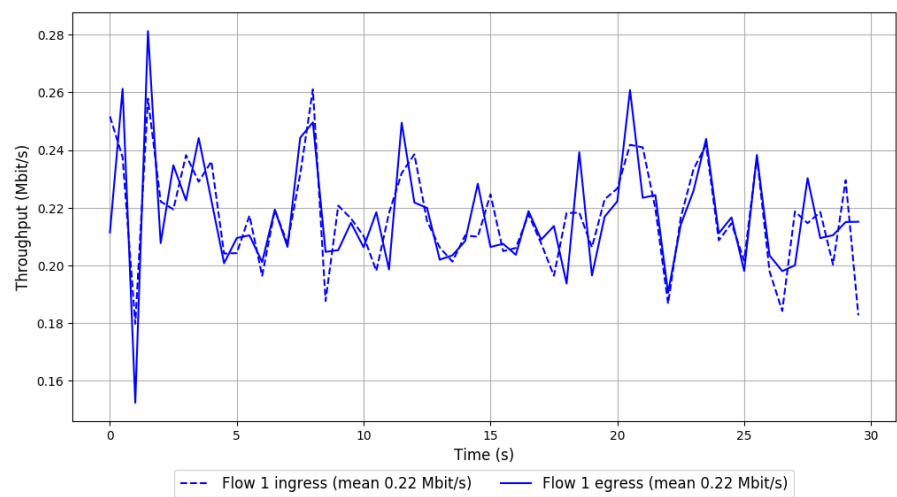
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.615 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2018-02-28 04:07:44

End at: 2018-02-28 04:08:14

Below is generated by plot.py at 2018-02-28 07:37:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.13 Mbit/s

95th percentile per-packet one-way delay: 63.565 ms

Loss rate: 0.00%

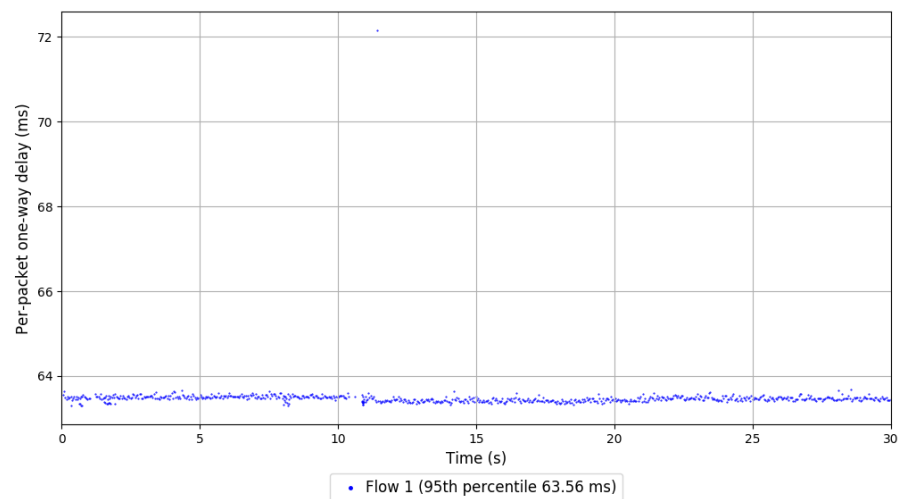
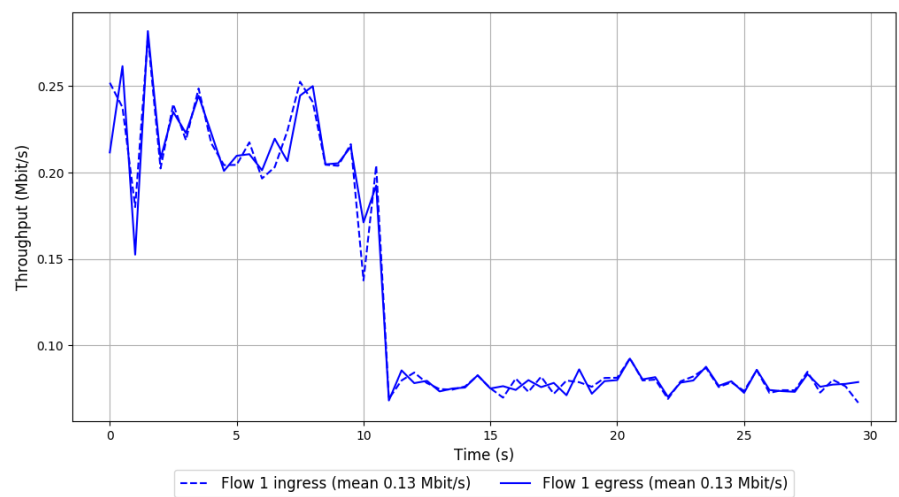
-- Flow 1:

Average throughput: 0.13 Mbit/s

95th percentile per-packet one-way delay: 63.565 ms

Loss rate: 0.00%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-02-28 04:22:21

End at: 2018-02-28 04:22:51

Below is generated by plot.py at 2018-02-28 07:37:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.522 ms

Loss rate: 0.00%

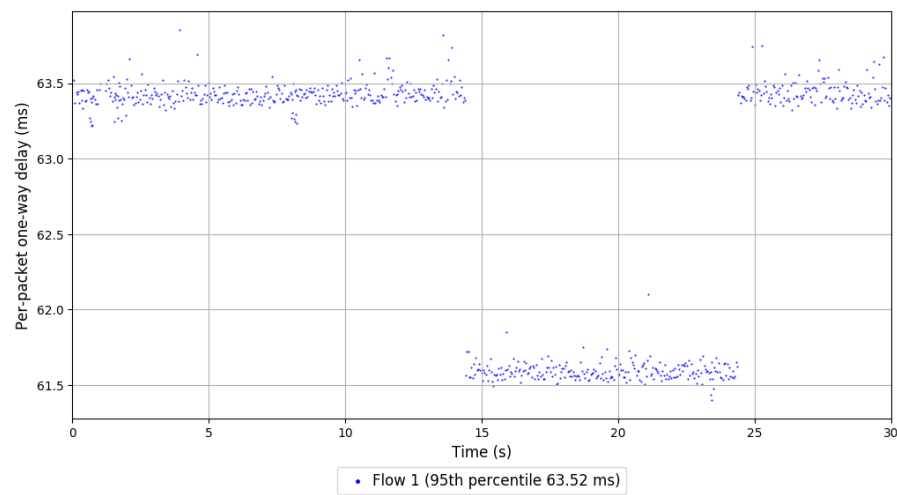
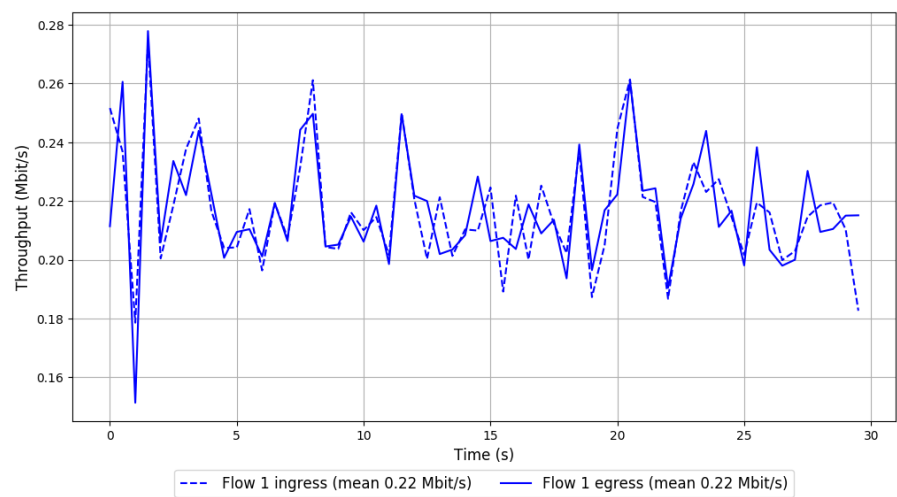
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.522 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-02-28 04:36:51

End at: 2018-02-28 04:37:21

Below is generated by plot.py at 2018-02-28 07:37:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.948 ms

Loss rate: 0.00%

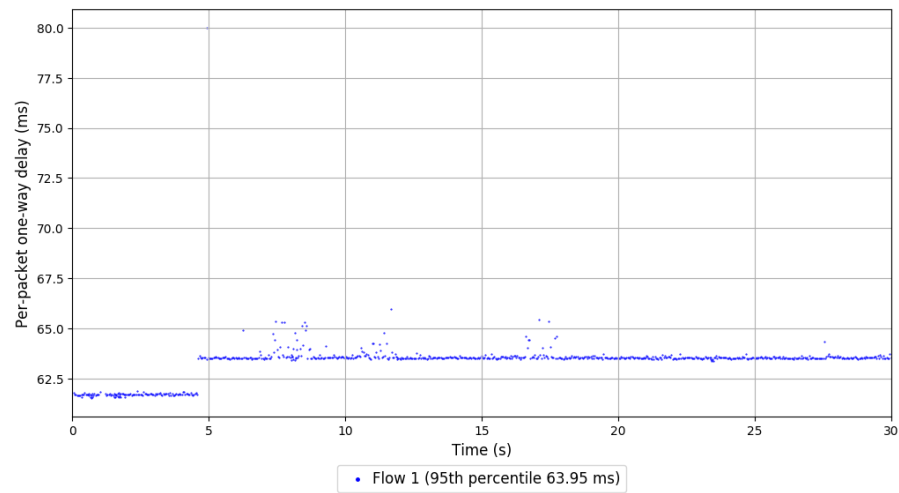
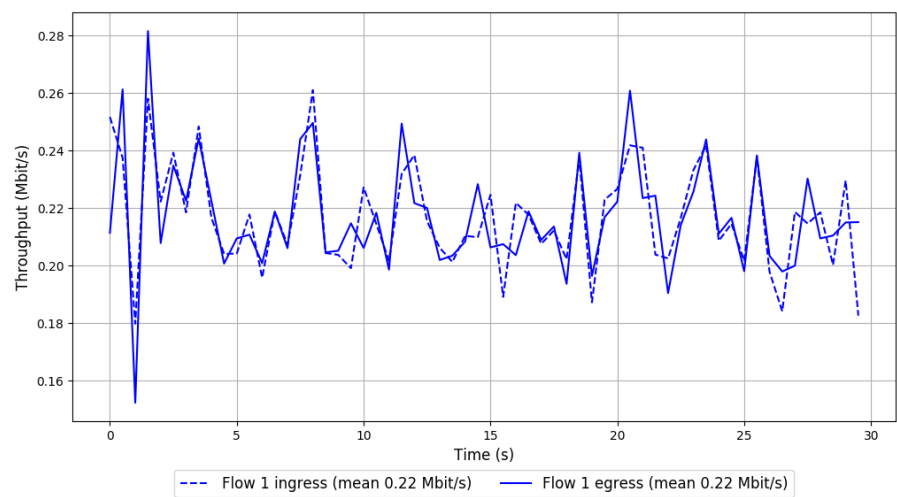
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.948 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-02-28 04:51:33

End at: 2018-02-28 04:52:03

Below is generated by plot.py at 2018-02-28 07:37:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 63.373 ms

Loss rate: 0.00%

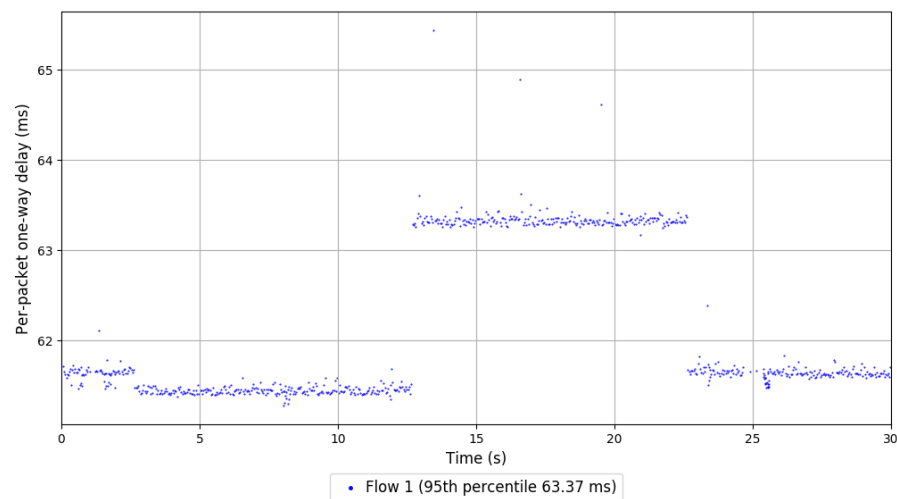
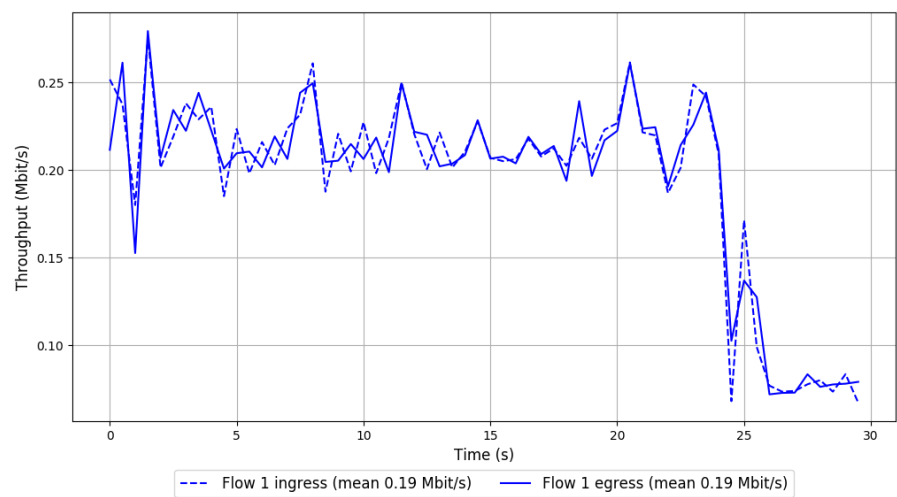
-- Flow 1:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 63.373 ms

Loss rate: 0.00%

Run 10: Report of SReAM — Data Link

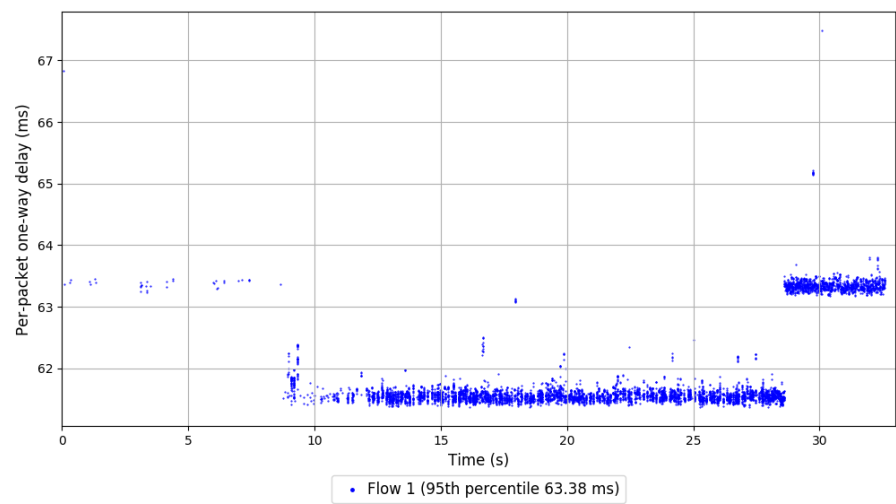
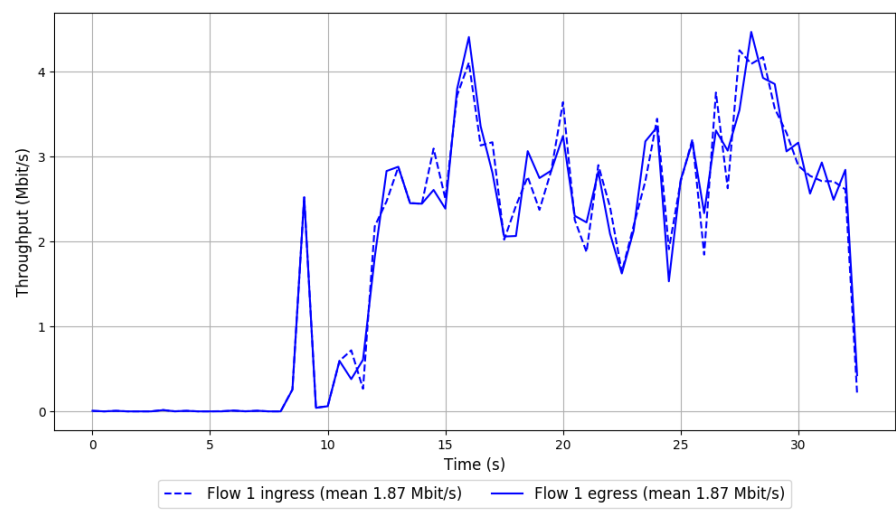


```
Run 1: Statistics of WebRTC media

Start at: 2018-02-28 02:33:49
End at: 2018-02-28 02:34:19

# Below is generated by plot.py at 2018-02-28 07:37:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.87 Mbit/s
95th percentile per-packet one-way delay: 63.382 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.87 Mbit/s
95th percentile per-packet one-way delay: 63.382 ms
Loss rate: 0.00%
```


Run 1: Report of WebRTC media — Data Link

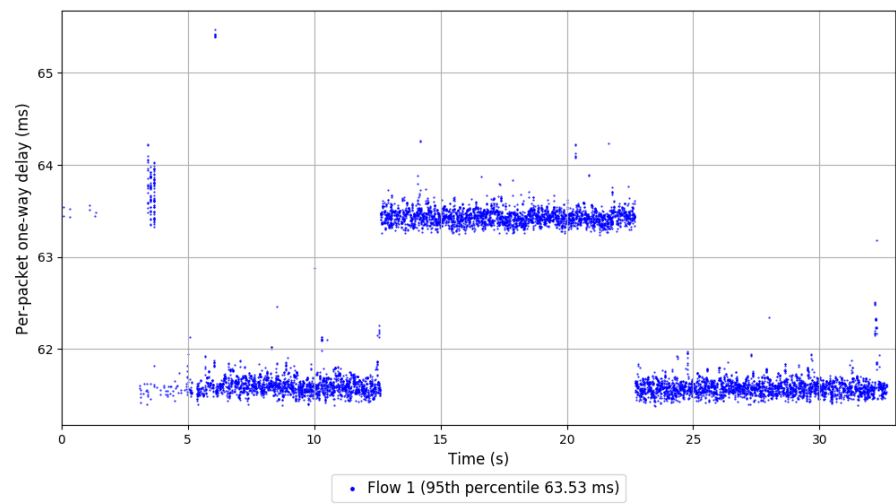
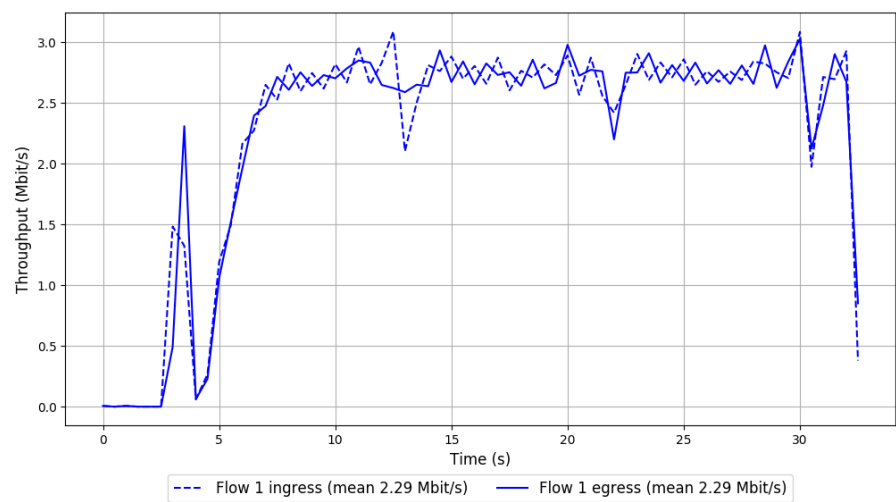


```
Run 2: Statistics of WebRTC media

Start at: 2018-02-28 02:48:25
End at: 2018-02-28 02:48:55

# Below is generated by plot.py at 2018-02-28 07:37:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.29 Mbit/s
95th percentile per-packet one-way delay: 63.530 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.29 Mbit/s
95th percentile per-packet one-way delay: 63.530 ms
Loss rate: 0.00%
```

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-02-28 03:02:54

End at: 2018-02-28 03:03:24

Below is generated by plot.py at 2018-02-28 07:37:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.30 Mbit/s

95th percentile per-packet one-way delay: 63.736 ms

Loss rate: 0.00%

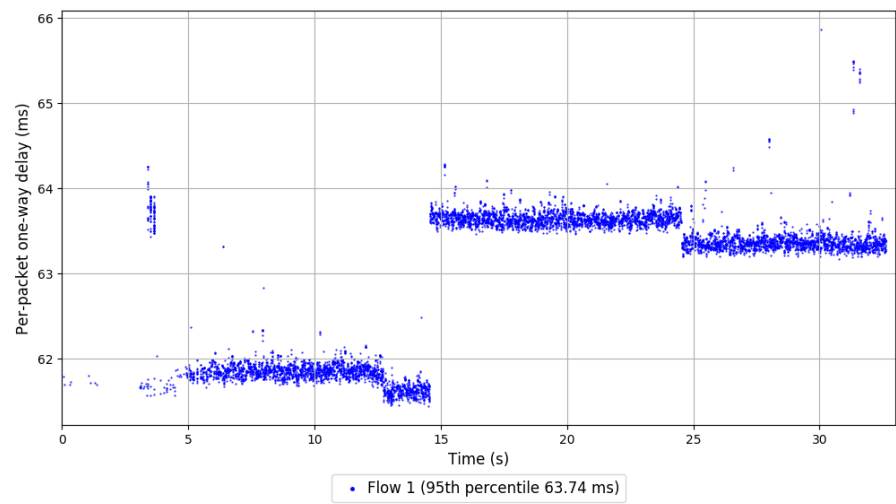
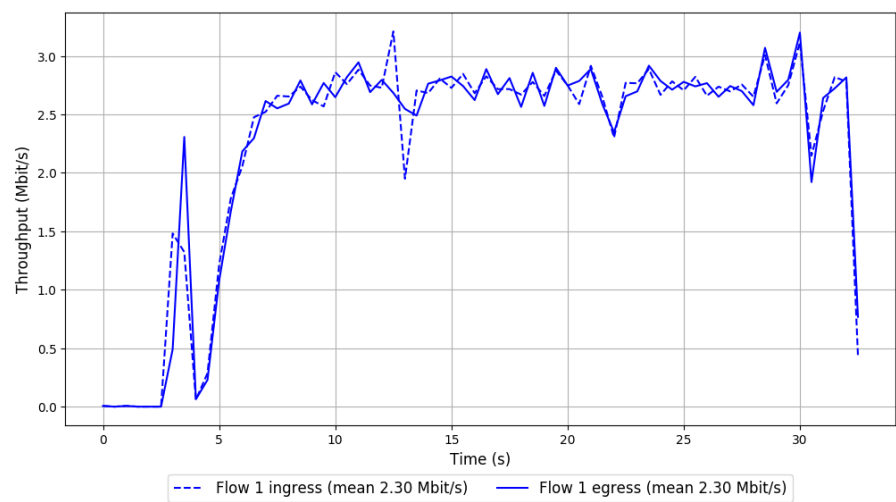
-- Flow 1:

Average throughput: 2.30 Mbit/s

95th percentile per-packet one-way delay: 63.736 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-02-28 03:17:23

End at: 2018-02-28 03:17:53

Below is generated by plot.py at 2018-02-28 07:37:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 63.793 ms

Loss rate: 0.00%

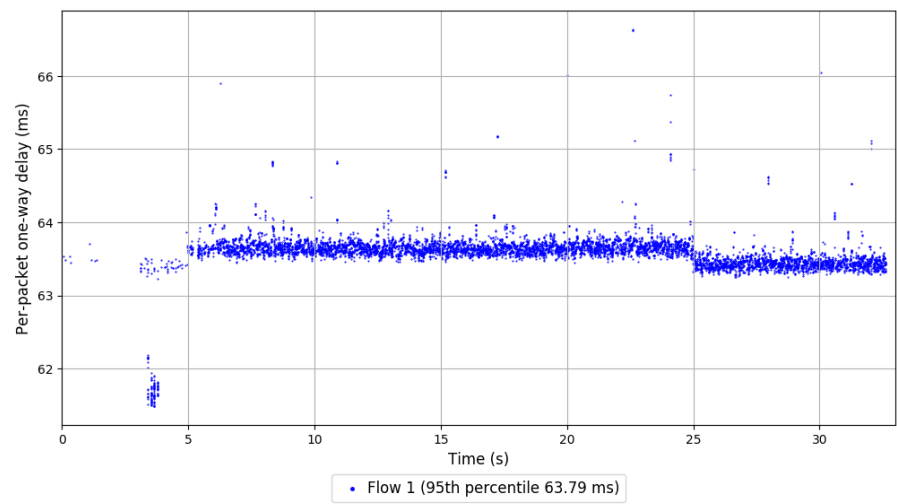
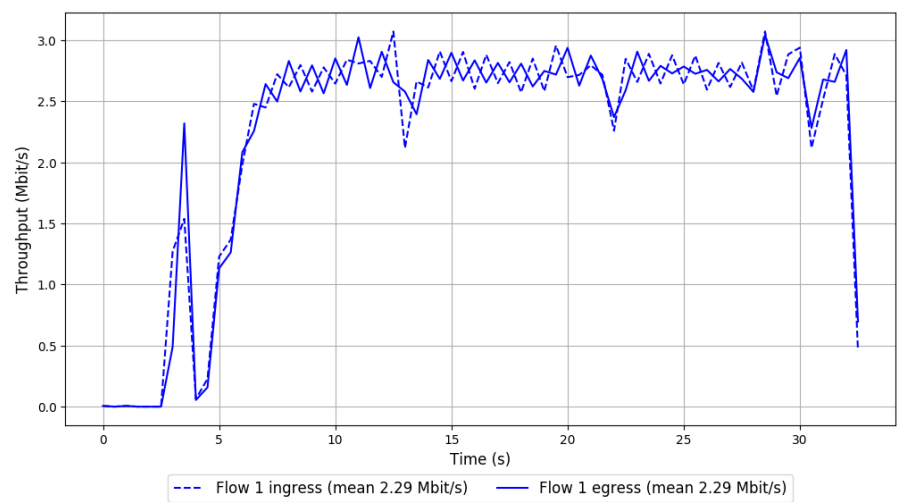
-- Flow 1:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 63.793 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-02-28 03:31:52

End at: 2018-02-28 03:32:22

Below is generated by plot.py at 2018-02-28 07:37:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 63.597 ms

Loss rate: 0.00%

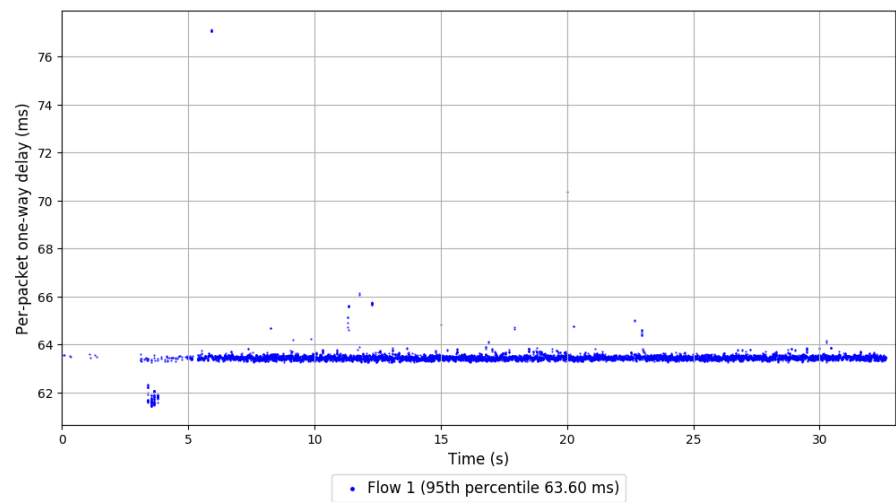
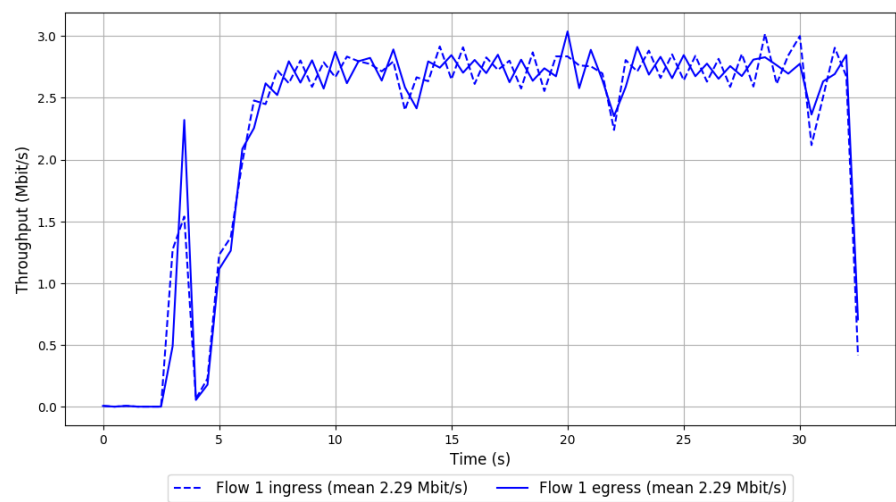
-- Flow 1:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 63.597 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-02-28 03:46:18

End at: 2018-02-28 03:46:48

Below is generated by plot.py at 2018-02-28 07:37:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 63.498 ms

Loss rate: 0.00%

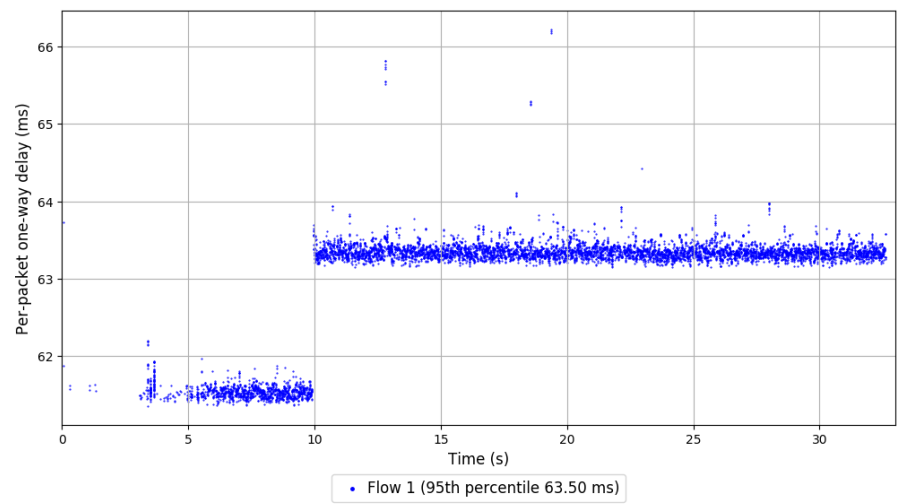
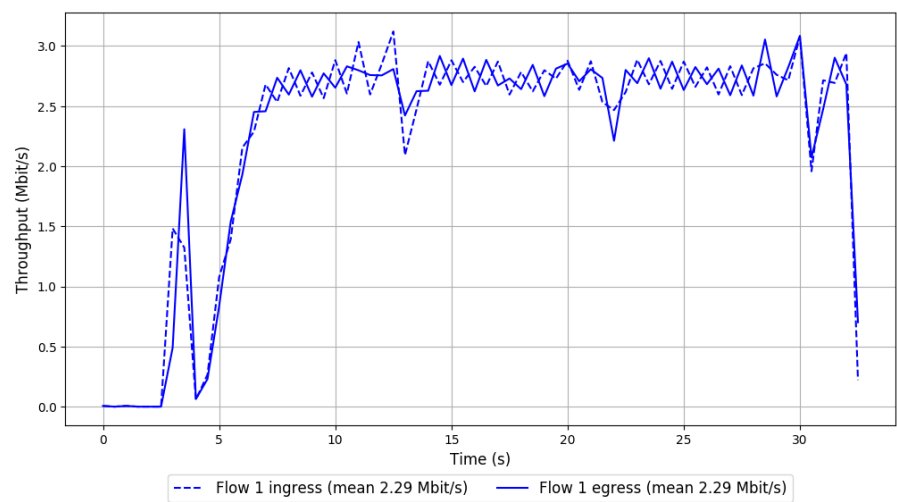
-- Flow 1:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 63.498 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-02-28 04:00:52

End at: 2018-02-28 04:01:22

Below is generated by plot.py at 2018-02-28 07:37:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.30 Mbit/s

95th percentile per-packet one-way delay: 61.755 ms

Loss rate: 0.00%

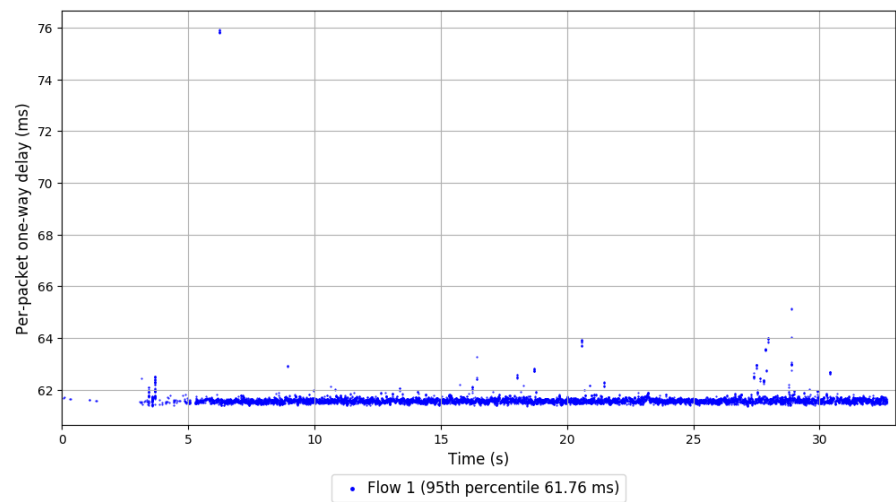
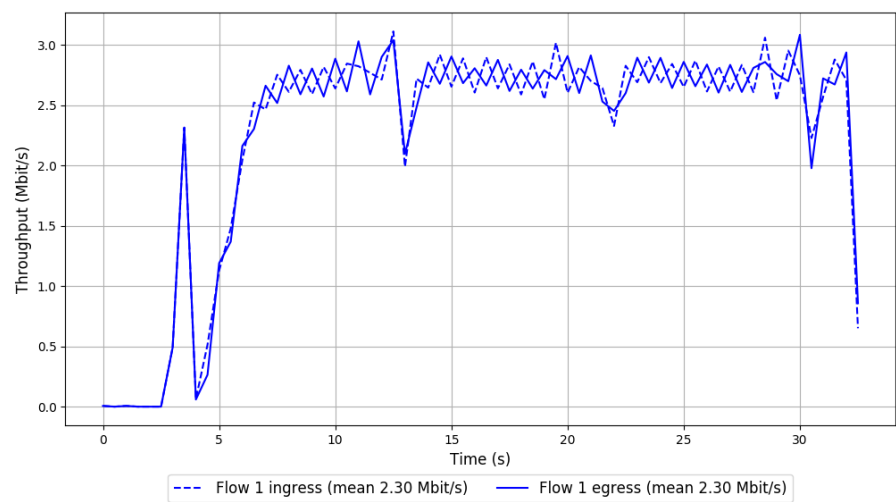
-- Flow 1:

Average throughput: 2.30 Mbit/s

95th percentile per-packet one-way delay: 61.755 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-02-28 04:15:27

End at: 2018-02-28 04:15:58

Below is generated by plot.py at 2018-02-28 07:37:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.37 Mbit/s

95th percentile per-packet one-way delay: 63.543 ms

Loss rate: 0.62%

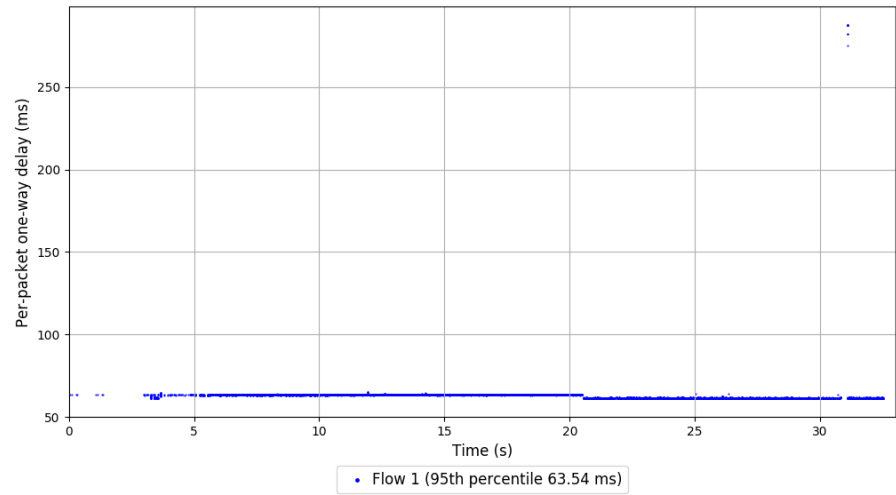
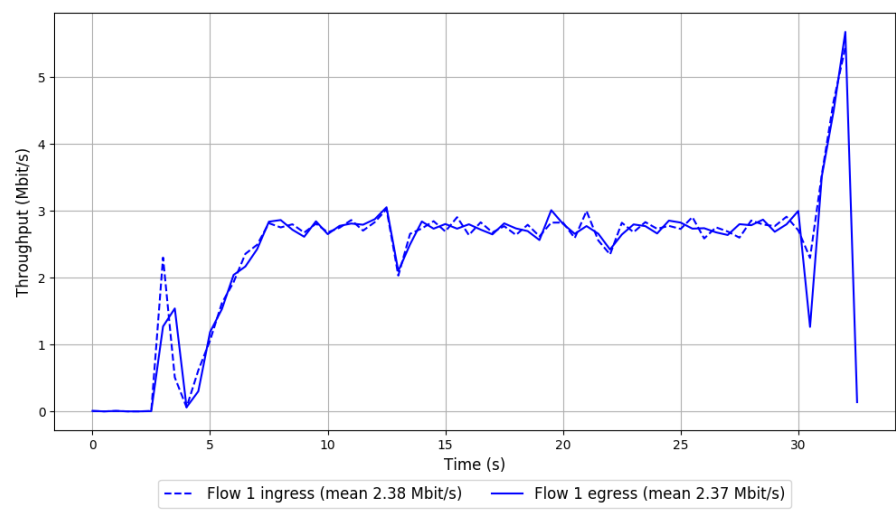
-- Flow 1:

Average throughput: 2.37 Mbit/s

95th percentile per-packet one-way delay: 63.543 ms

Loss rate: 0.62%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-02-28 04:30:03

End at: 2018-02-28 04:30:33

Below is generated by plot.py at 2018-02-28 07:37:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 63.617 ms

Loss rate: 0.00%

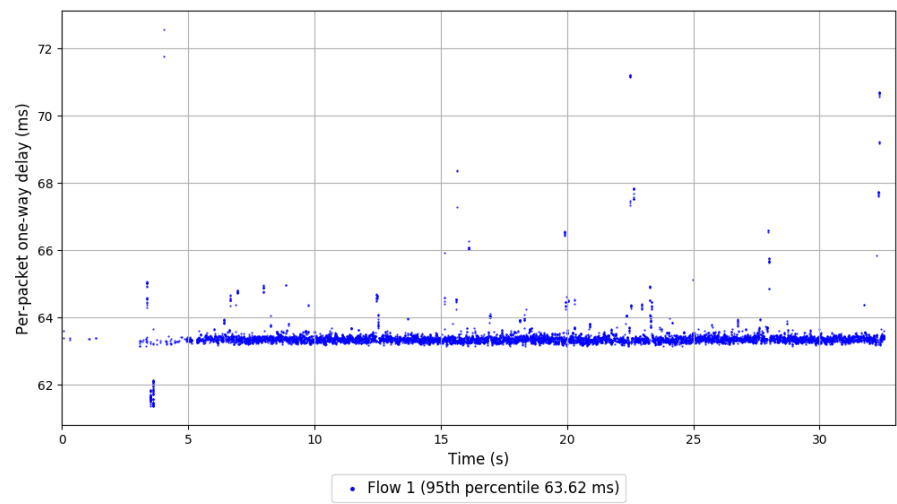
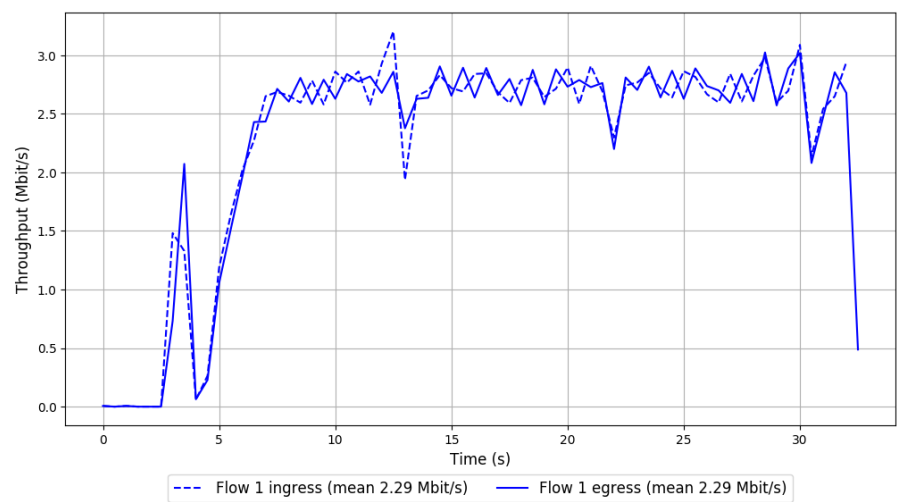
-- Flow 1:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 63.617 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-02-28 04:44:36

End at: 2018-02-28 04:45:06

Below is generated by plot.py at 2018-02-28 07:37:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 63.587 ms

Loss rate: 0.00%

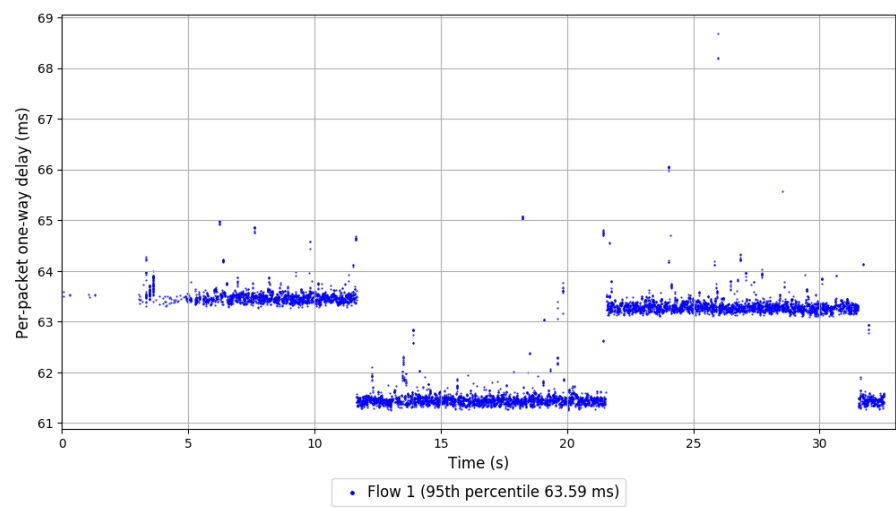
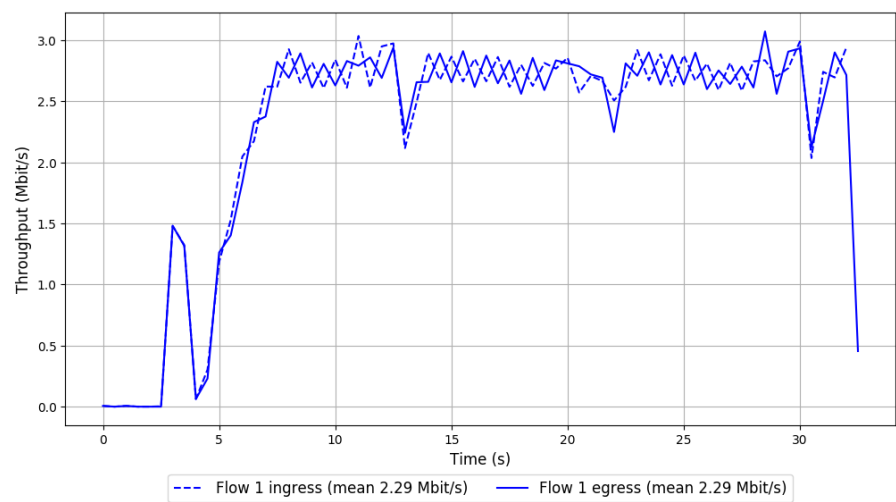
-- Flow 1:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 63.587 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2018-02-28 02:30:47

End at: 2018-02-28 02:31:17

Below is generated by plot.py at 2018-02-28 07:37:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.56 Mbit/s

95th percentile per-packet one-way delay: 64.345 ms

Loss rate: 0.00%

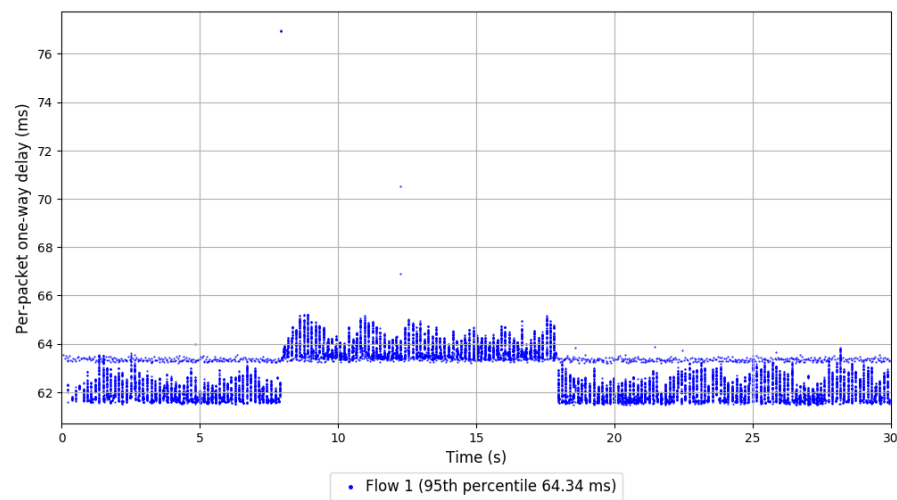
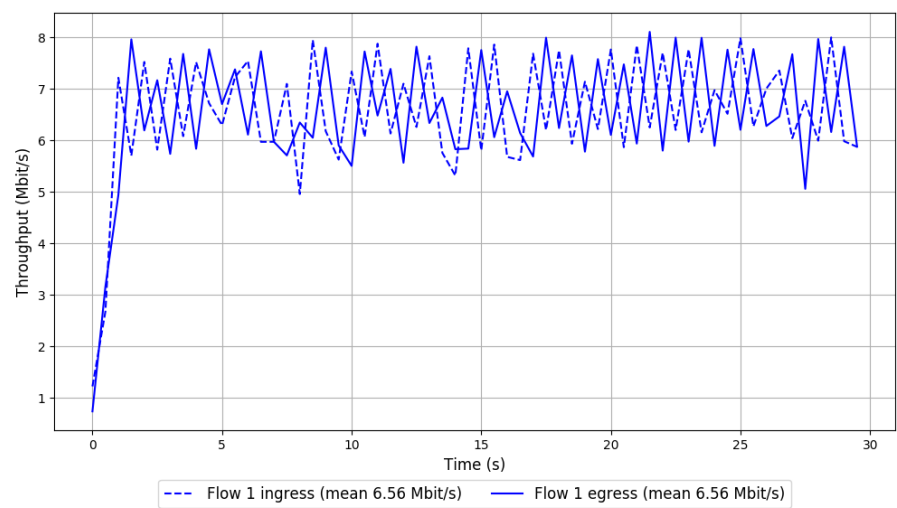
-- Flow 1:

Average throughput: 6.56 Mbit/s

95th percentile per-packet one-way delay: 64.345 ms

Loss rate: 0.00%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-02-28 02:45:20

End at: 2018-02-28 02:45:50

Below is generated by plot.py at 2018-02-28 07:37:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.45 Mbit/s

95th percentile per-packet one-way delay: 64.656 ms

Loss rate: 0.00%

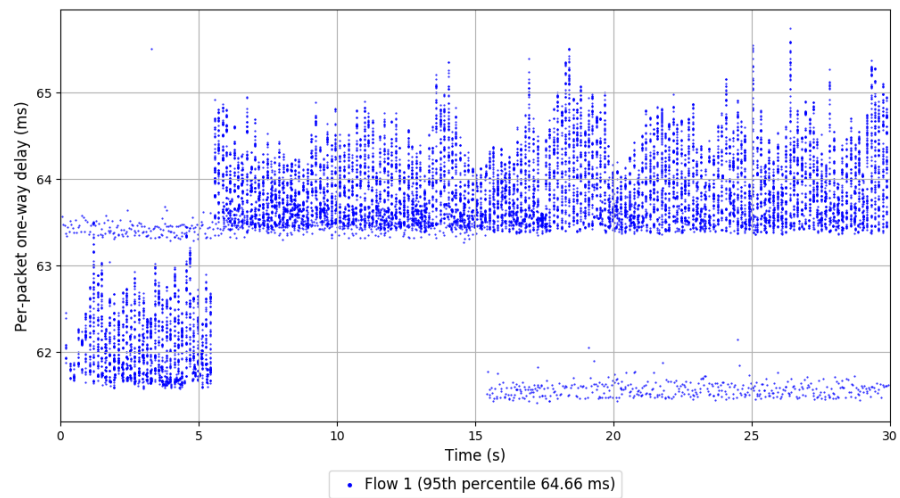
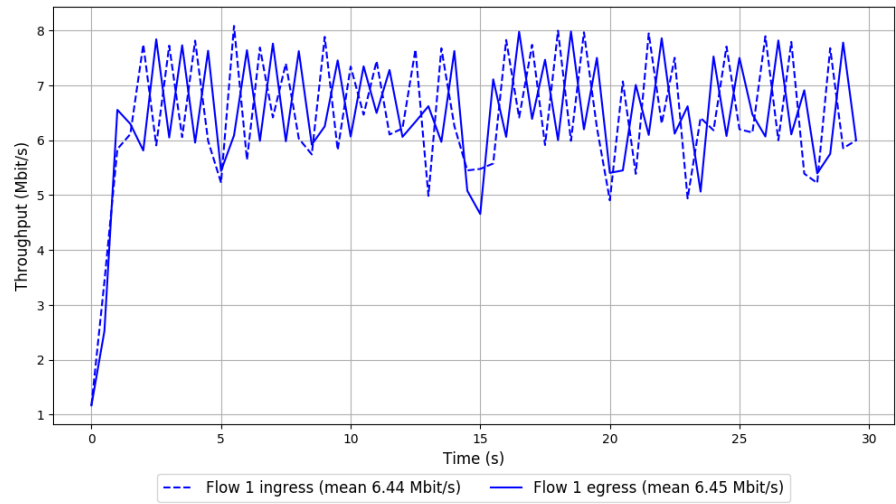
-- Flow 1:

Average throughput: 6.45 Mbit/s

95th percentile per-packet one-way delay: 64.656 ms

Loss rate: 0.00%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-02-28 02:59:53

End at: 2018-02-28 03:00:23

Below is generated by plot.py at 2018-02-28 07:37:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.63 Mbit/s

95th percentile per-packet one-way delay: 63.295 ms

Loss rate: 0.00%

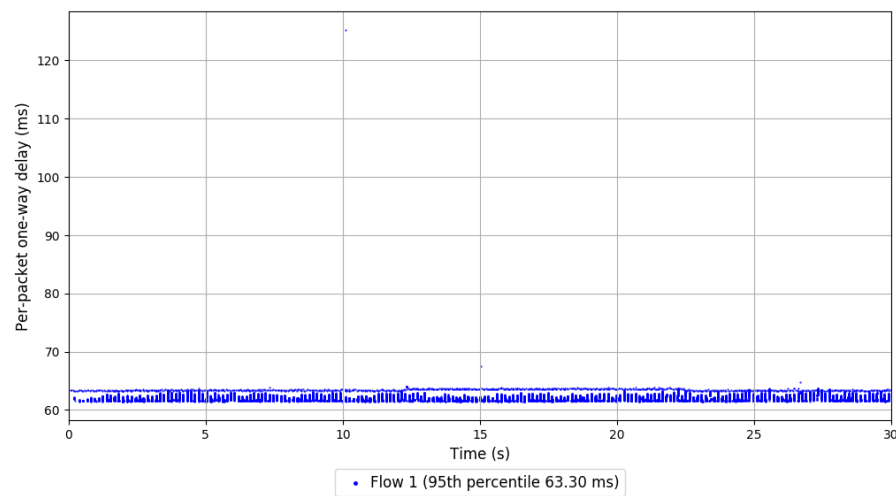
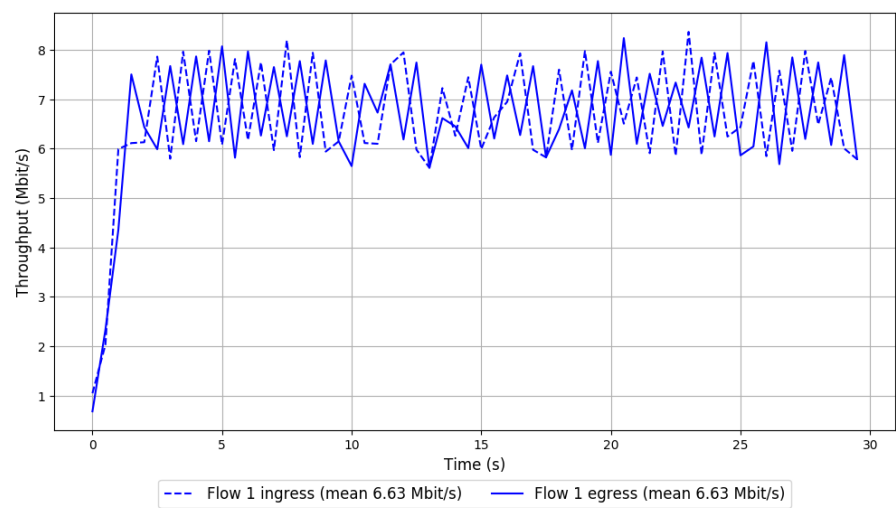
-- Flow 1:

Average throughput: 6.63 Mbit/s

95th percentile per-packet one-way delay: 63.295 ms

Loss rate: 0.00%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-02-28 03:14:23

End at: 2018-02-28 03:14:53

Below is generated by plot.py at 2018-02-28 07:37:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.59 Mbit/s

95th percentile per-packet one-way delay: 63.077 ms

Loss rate: 0.00%

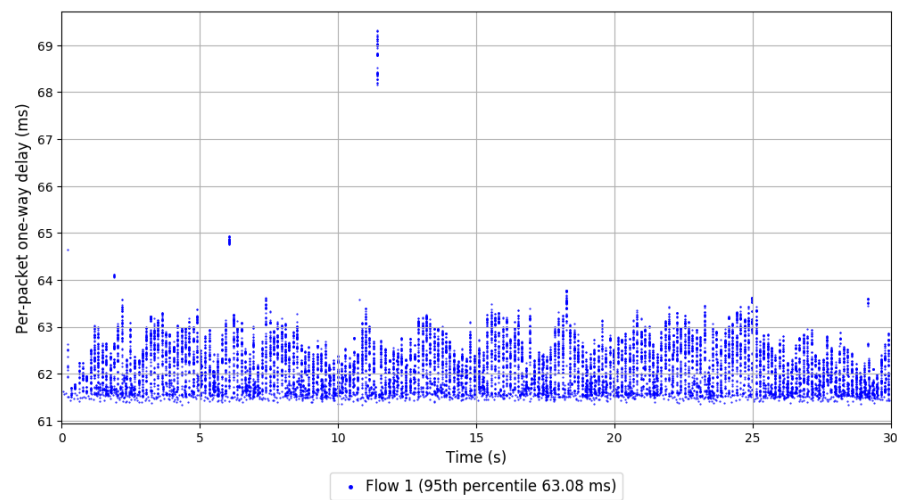
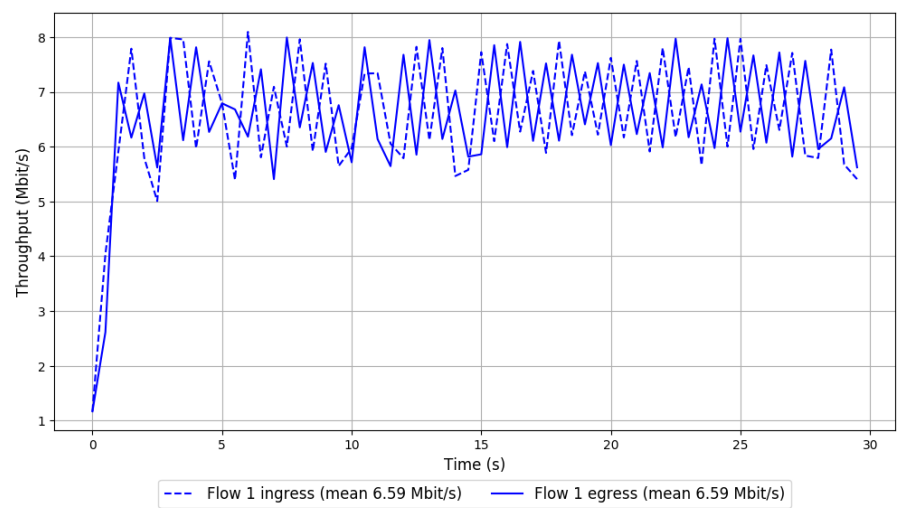
-- Flow 1:

Average throughput: 6.59 Mbit/s

95th percentile per-packet one-way delay: 63.077 ms

Loss rate: 0.00%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-02-28 03:28:56

End at: 2018-02-28 03:29:26

Below is generated by plot.py at 2018-02-28 07:37:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.61 Mbit/s

95th percentile per-packet one-way delay: 62.919 ms

Loss rate: 0.00%

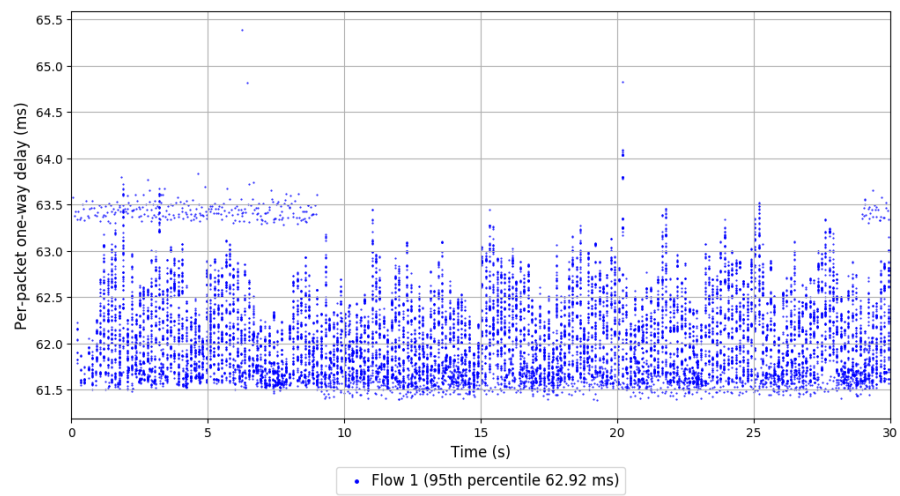
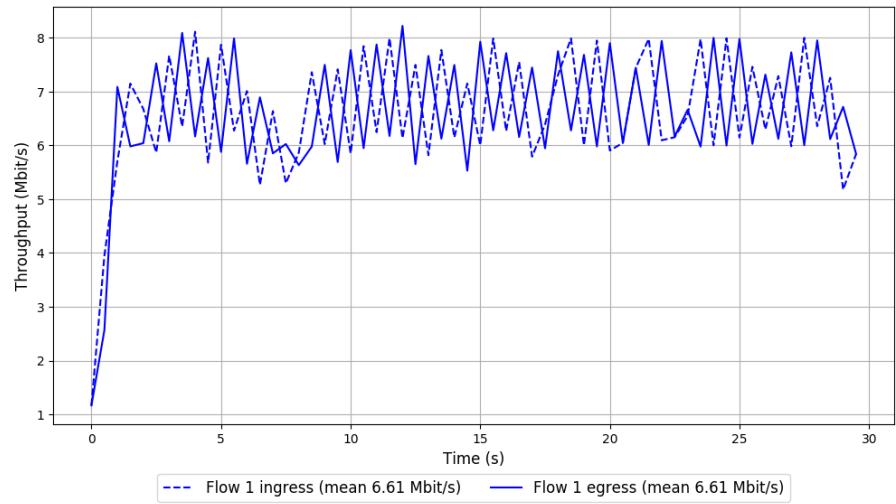
-- Flow 1:

Average throughput: 6.61 Mbit/s

95th percentile per-packet one-way delay: 62.919 ms

Loss rate: 0.00%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-02-28 03:43:21

End at: 2018-02-28 03:43:51

Below is generated by plot.py at 2018-02-28 07:37:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.61 Mbit/s

95th percentile per-packet one-way delay: 63.023 ms

Loss rate: 0.00%

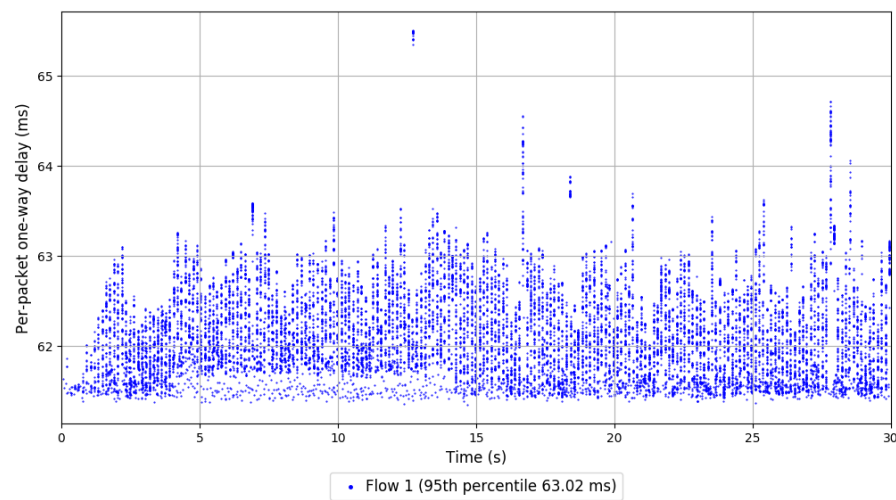
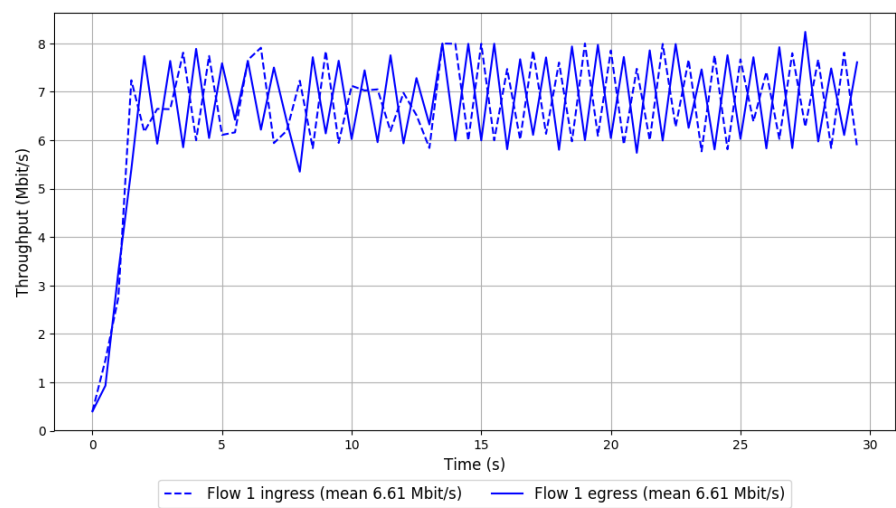
-- Flow 1:

Average throughput: 6.61 Mbit/s

95th percentile per-packet one-way delay: 63.023 ms

Loss rate: 0.00%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-02-28 03:57:47

End at: 2018-02-28 03:58:17

Below is generated by plot.py at 2018-02-28 07:37:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.55 Mbit/s

95th percentile per-packet one-way delay: 63.250 ms

Loss rate: 0.00%

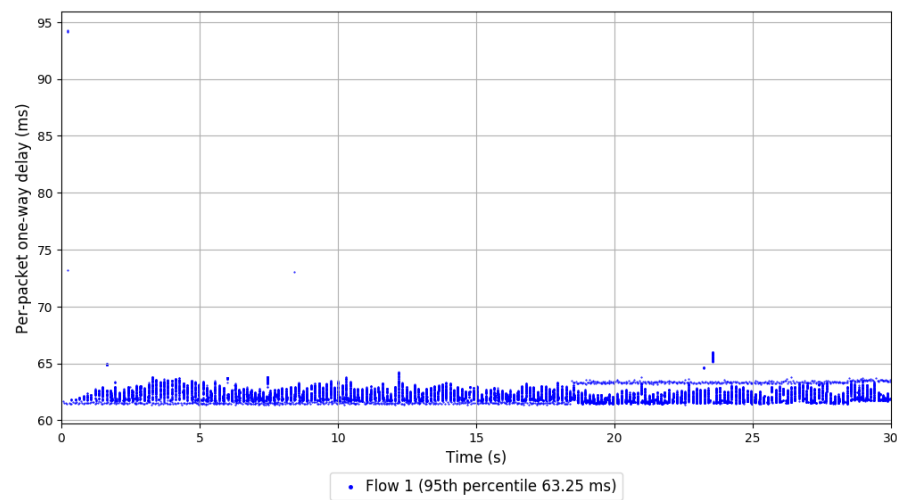
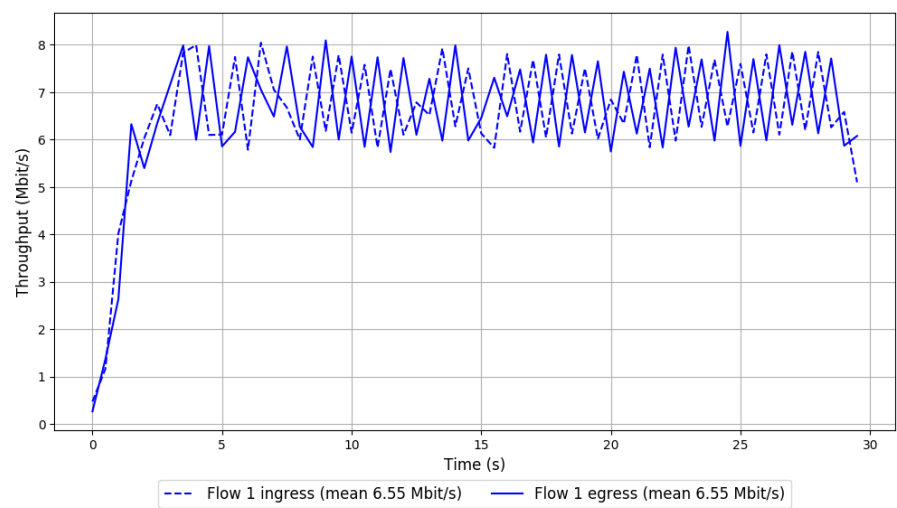
-- Flow 1:

Average throughput: 6.55 Mbit/s

95th percentile per-packet one-way delay: 63.250 ms

Loss rate: 0.00%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-02-28 04:12:21

End at: 2018-02-28 04:12:51

Below is generated by plot.py at 2018-02-28 07:37:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.62 Mbit/s

95th percentile per-packet one-way delay: 63.048 ms

Loss rate: 0.00%

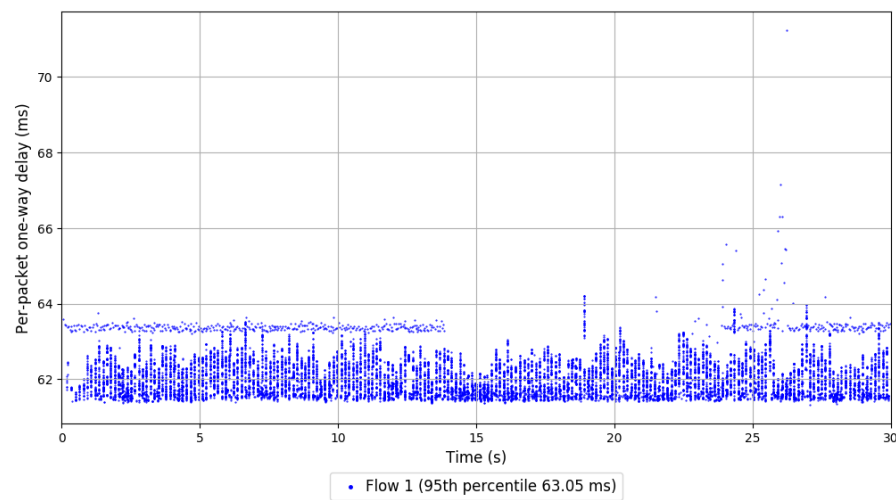
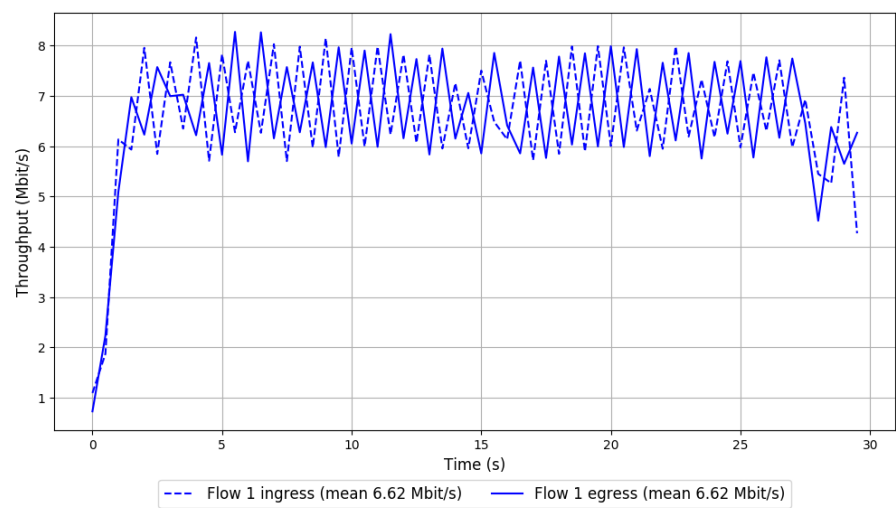
-- Flow 1:

Average throughput: 6.62 Mbit/s

95th percentile per-packet one-way delay: 63.048 ms

Loss rate: 0.00%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-02-28 04:27:02

End at: 2018-02-28 04:27:32

Below is generated by plot.py at 2018-02-28 07:37:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.52 Mbit/s

95th percentile per-packet one-way delay: 64.282 ms

Loss rate: 0.00%

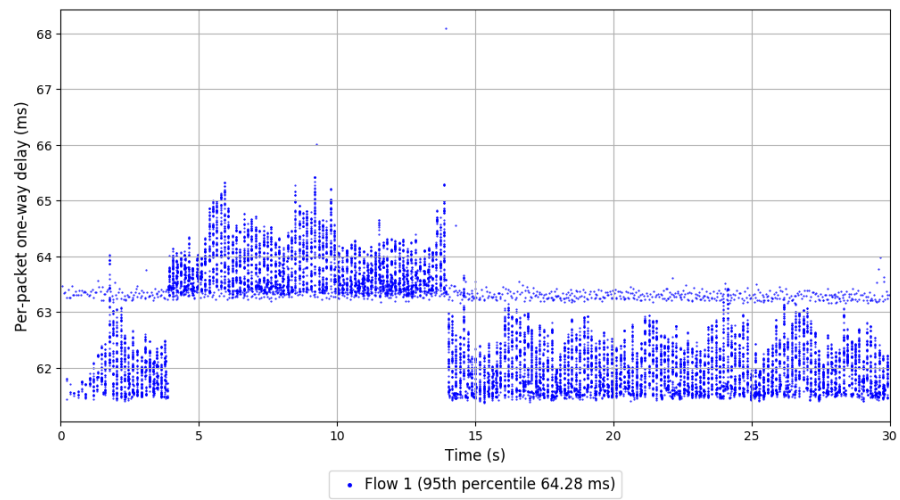
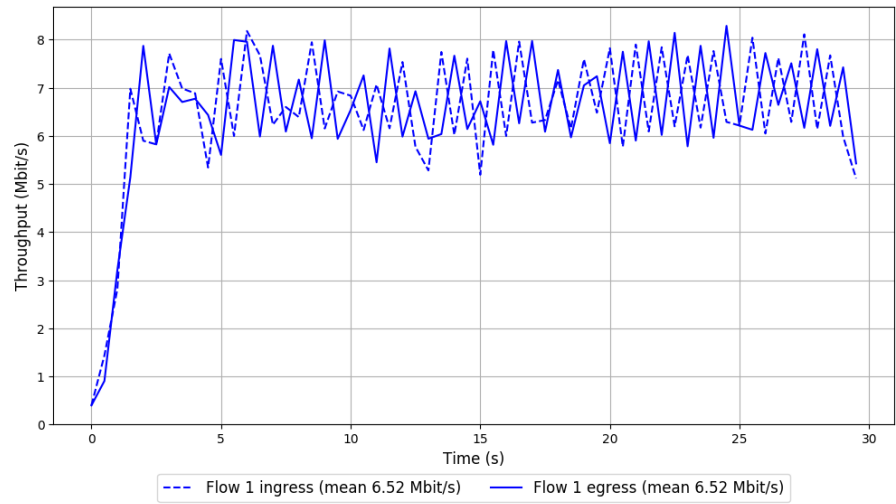
-- Flow 1:

Average throughput: 6.52 Mbit/s

95th percentile per-packet one-way delay: 64.282 ms

Loss rate: 0.00%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-02-28 04:41:34

End at: 2018-02-28 04:42:04

Below is generated by plot.py at 2018-02-28 07:37:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.30 Mbit/s

95th percentile per-packet one-way delay: 64.369 ms

Loss rate: 0.00%

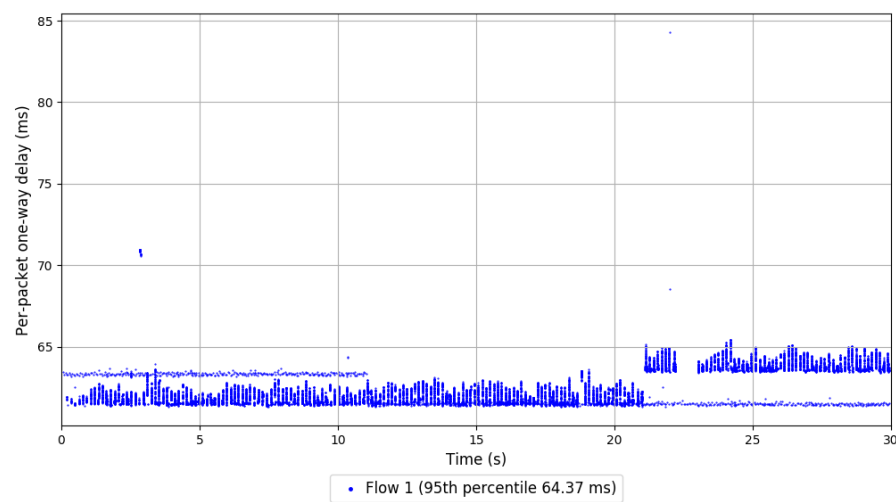
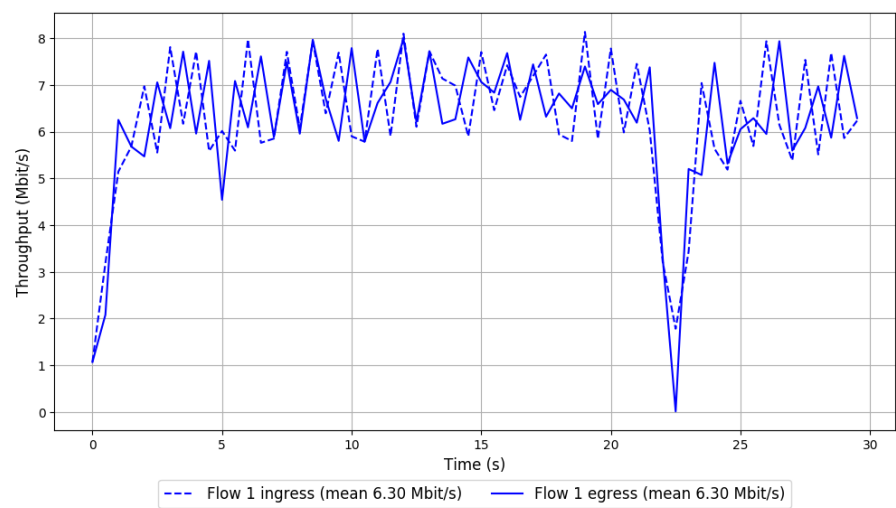
-- Flow 1:

Average throughput: 6.30 Mbit/s

95th percentile per-packet one-way delay: 64.369 ms

Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

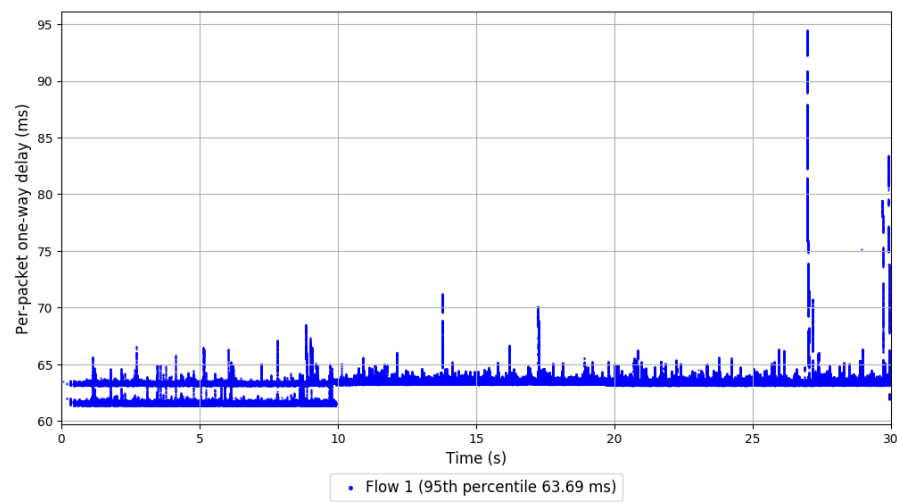
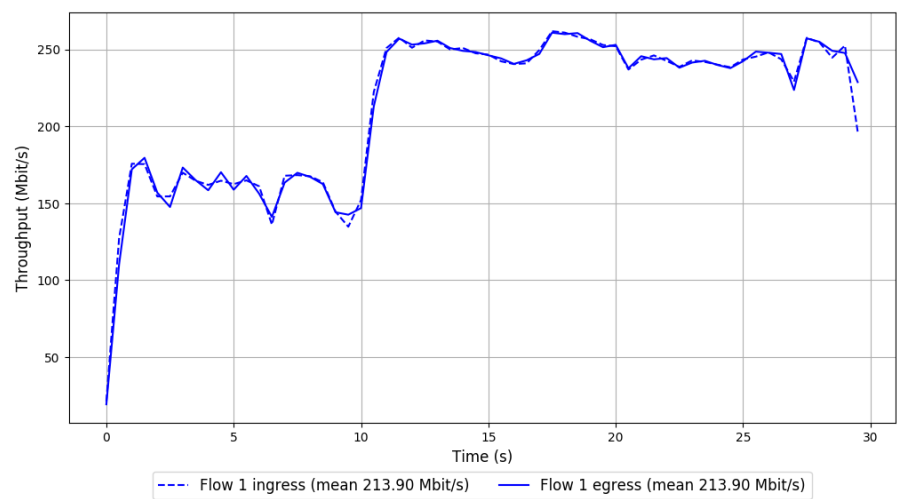


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-02-28 02:31:25
End at: 2018-02-28 02:31:55

# Below is generated by plot.py at 2018-02-28 07:42:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 213.90 Mbit/s
95th percentile per-packet one-way delay: 63.692 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 213.90 Mbit/s
95th percentile per-packet one-way delay: 63.692 ms
Loss rate: 0.00%
```


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

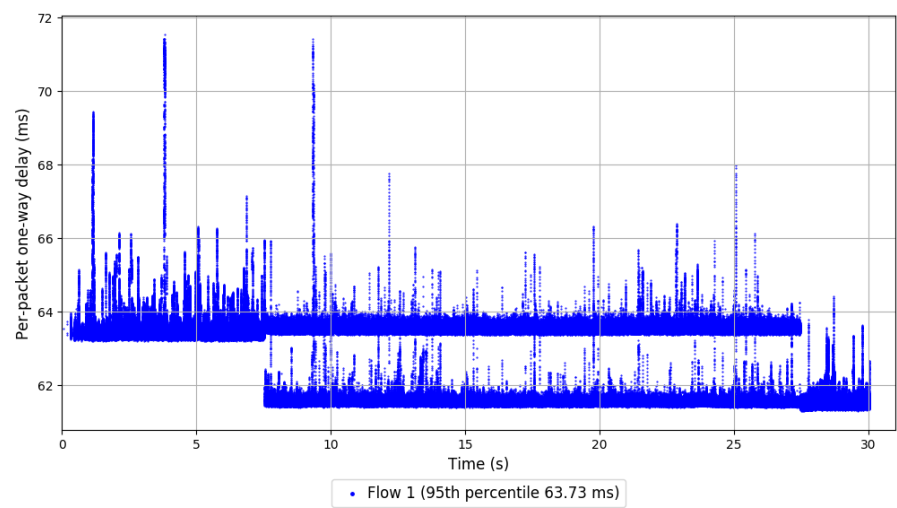
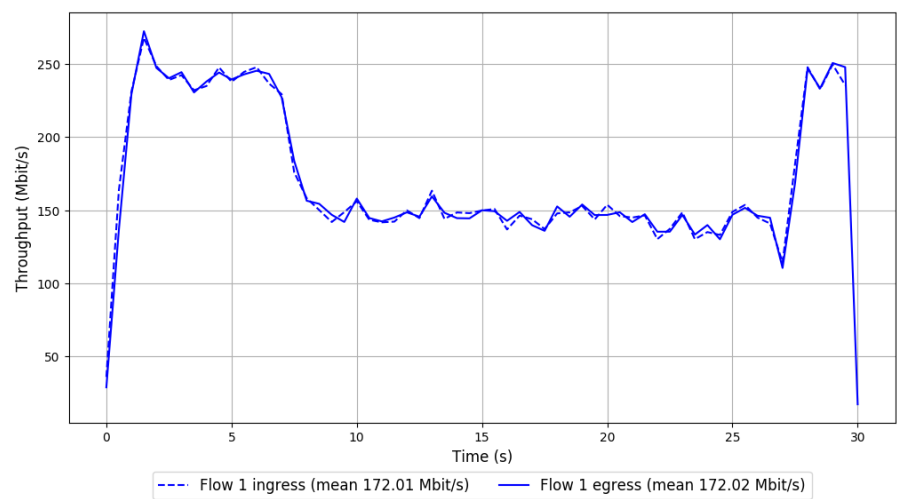


```
Run 2: Statistics of TaoVA-100x

Start at: 2018-02-28 02:45:58
End at: 2018-02-28 02:46:28

# Below is generated by plot.py at 2018-02-28 07:42:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 172.02 Mbit/s
95th percentile per-packet one-way delay: 63.727 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 172.02 Mbit/s
95th percentile per-packet one-way delay: 63.727 ms
Loss rate: 0.00%
```

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

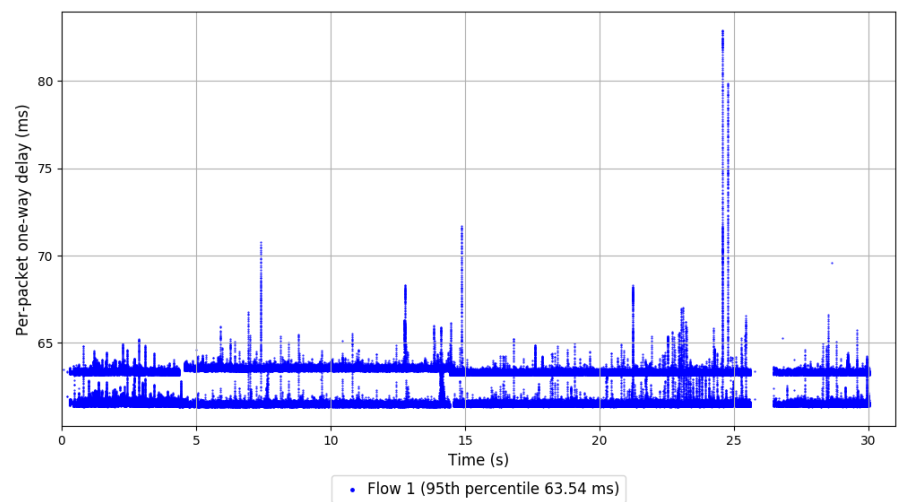
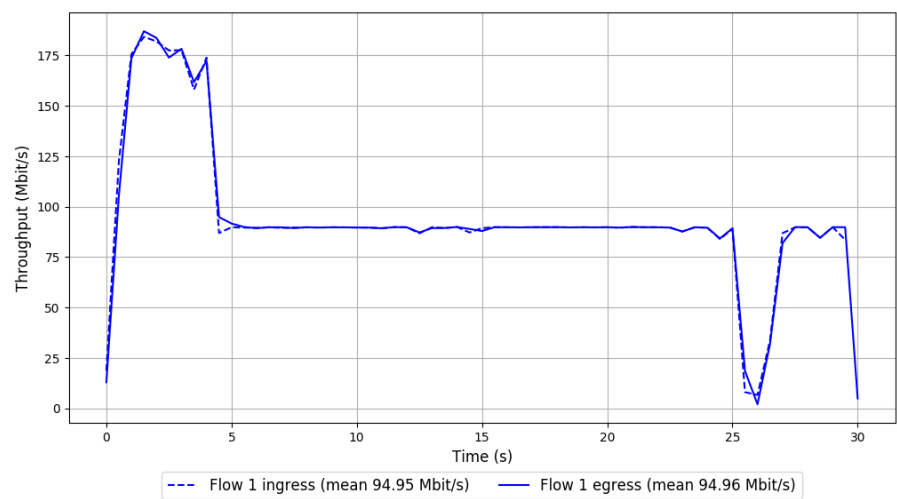


```
Run 3: Statistics of TaoVA-100x

Start at: 2018-02-28 03:00:31
End at: 2018-02-28 03:01:01

# Below is generated by plot.py at 2018-02-28 07:42:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.96 Mbit/s
95th percentile per-packet one-way delay: 63.537 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 94.96 Mbit/s
95th percentile per-packet one-way delay: 63.537 ms
Loss rate: 0.00%
```

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

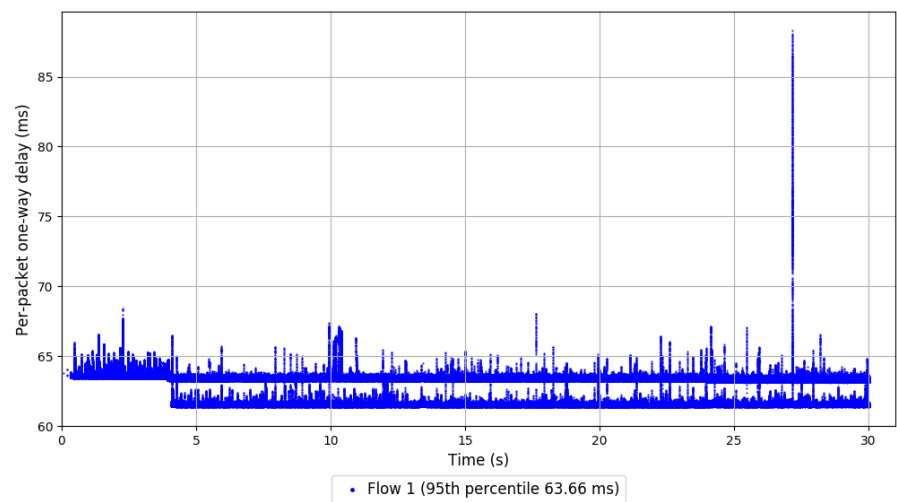
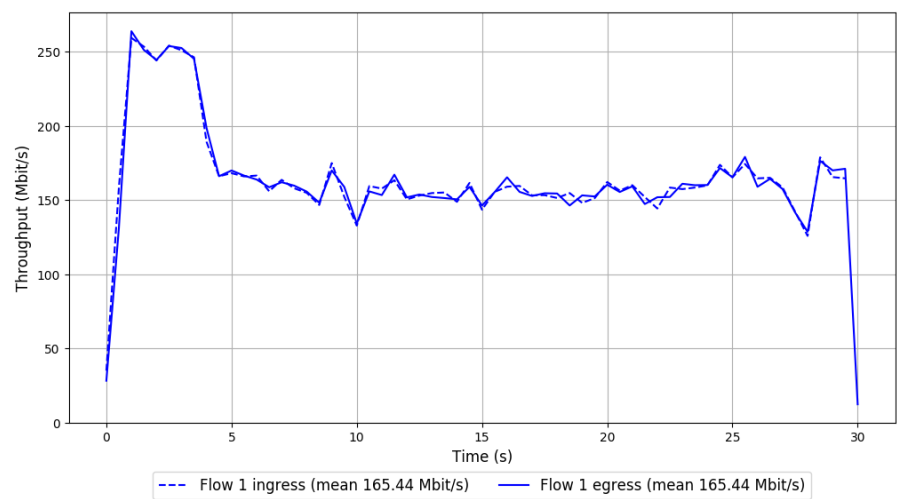


```
Run 4: Statistics of TaoVA-100x

Start at: 2018-02-28 03:15:01
End at: 2018-02-28 03:15:31

# Below is generated by plot.py at 2018-02-28 07:42:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 165.44 Mbit/s
95th percentile per-packet one-way delay: 63.656 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 165.44 Mbit/s
95th percentile per-packet one-way delay: 63.656 ms
Loss rate: 0.00%
```

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-02-28 03:29:34

End at: 2018-02-28 03:30:05

Below is generated by plot.py at 2018-02-28 07:42:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.43 Mbit/s

95th percentile per-packet one-way delay: 63.599 ms

Loss rate: 0.00%

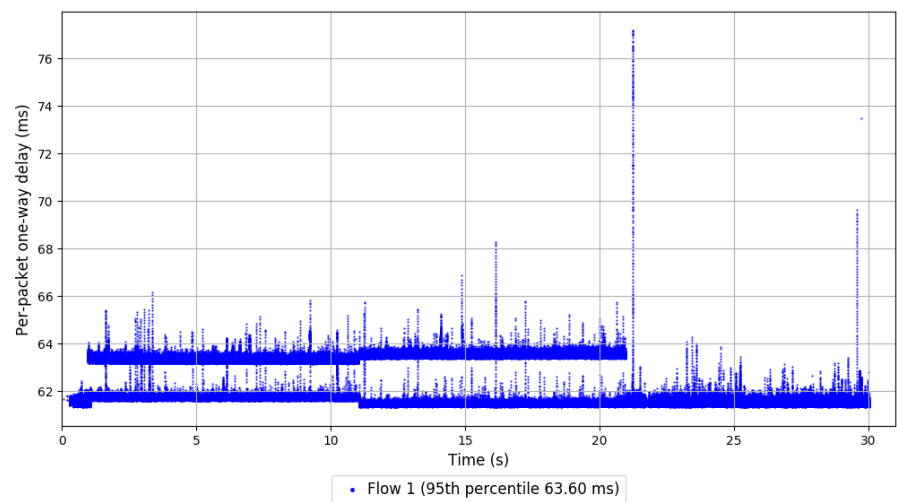
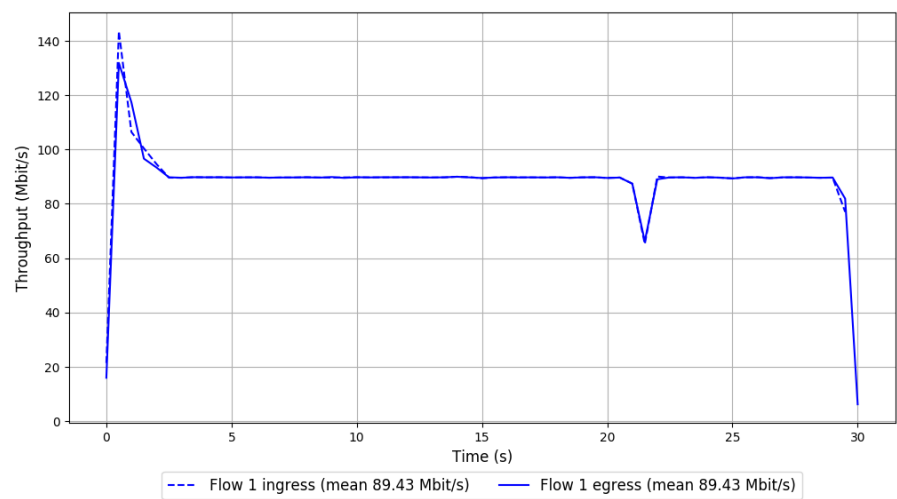
-- Flow 1:

Average throughput: 89.43 Mbit/s

95th percentile per-packet one-way delay: 63.599 ms

Loss rate: 0.00%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-02-28 03:43:59

End at: 2018-02-28 03:44:29

Below is generated by plot.py at 2018-02-28 07:42:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 101.22 Mbit/s

95th percentile per-packet one-way delay: 63.347 ms

Loss rate: 0.00%

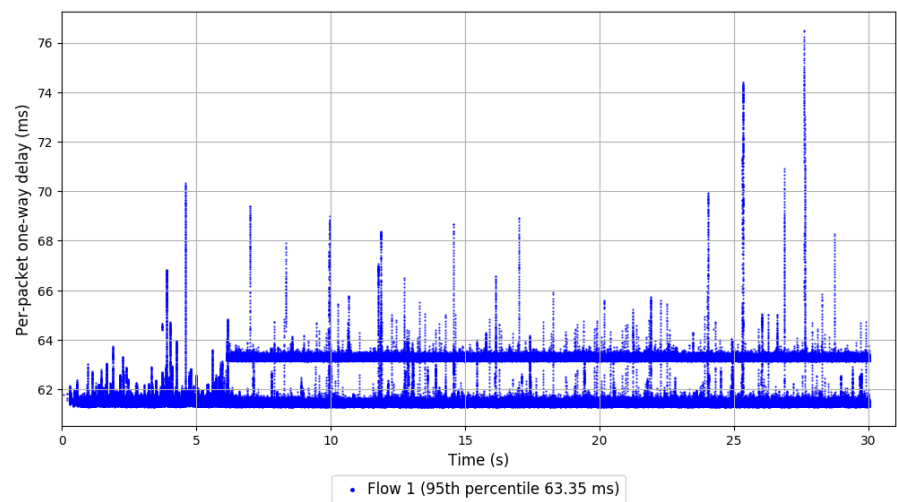
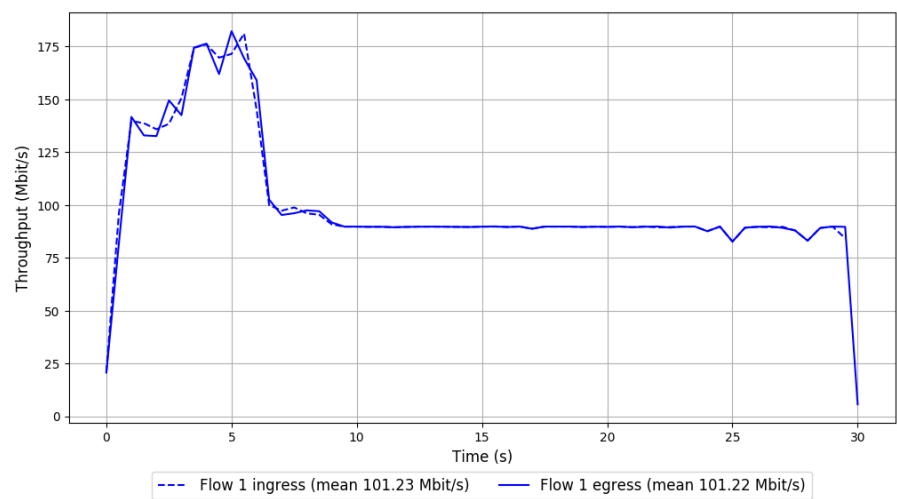
-- Flow 1:

Average throughput: 101.22 Mbit/s

95th percentile per-packet one-way delay: 63.347 ms

Loss rate: 0.00%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-02-28 03:58:25

End at: 2018-02-28 03:58:55

Below is generated by plot.py at 2018-02-28 07:44:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 154.59 Mbit/s

95th percentile per-packet one-way delay: 63.499 ms

Loss rate: 0.00%

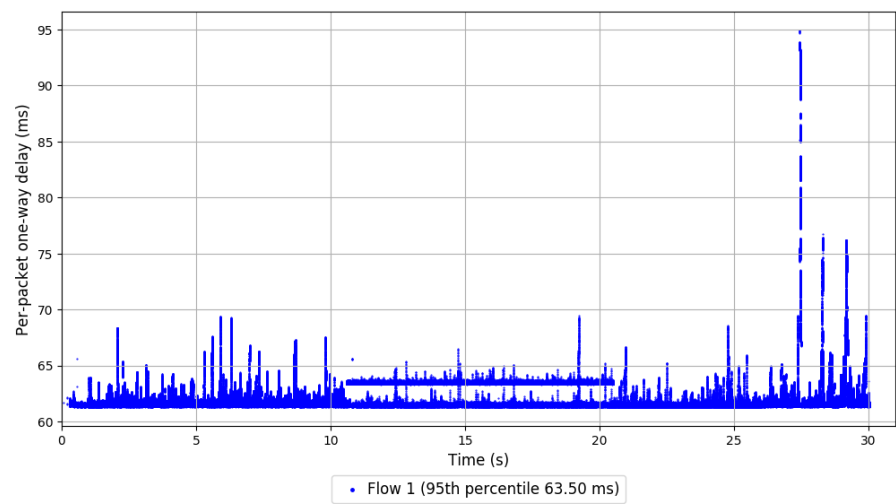
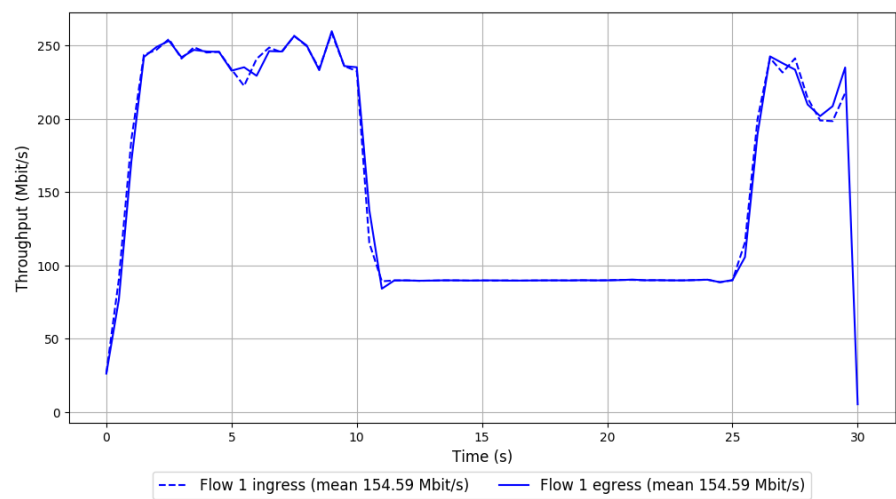
-- Flow 1:

Average throughput: 154.59 Mbit/s

95th percentile per-packet one-way delay: 63.499 ms

Loss rate: 0.00%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-02-28 04:12:59

End at: 2018-02-28 04:13:29

Below is generated by plot.py at 2018-02-28 07:47:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 217.09 Mbit/s

95th percentile per-packet one-way delay: 63.263 ms

Loss rate: 0.00%

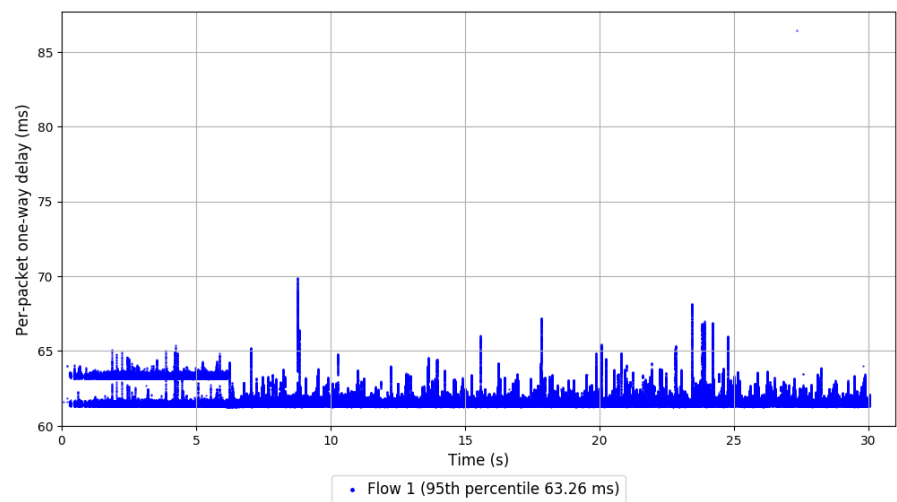
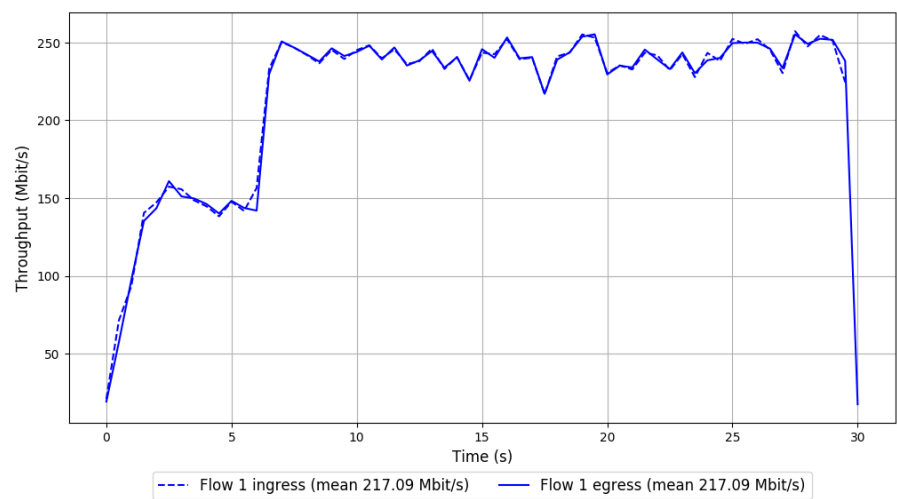
-- Flow 1:

Average throughput: 217.09 Mbit/s

95th percentile per-packet one-way delay: 63.263 ms

Loss rate: 0.00%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-02-28 04:27:40

End at: 2018-02-28 04:28:10

Below is generated by plot.py at 2018-02-28 07:47:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 130.28 Mbit/s

95th percentile per-packet one-way delay: 63.386 ms

Loss rate: 0.00%

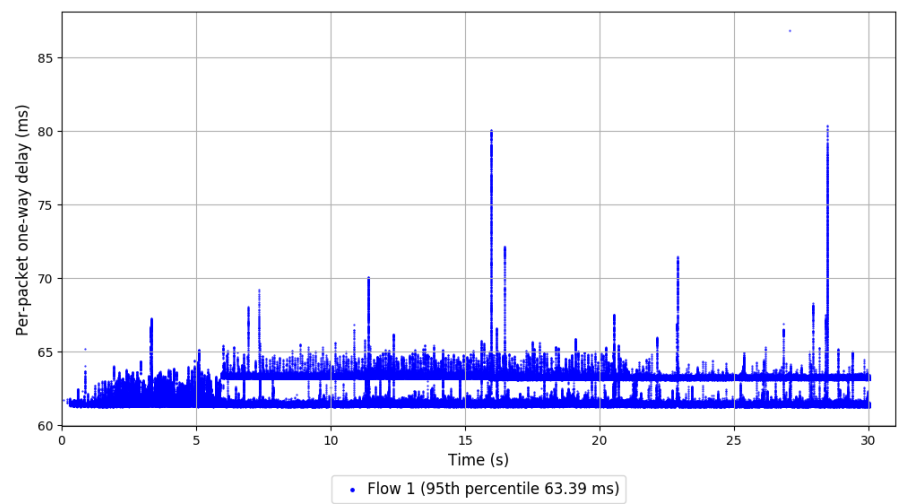
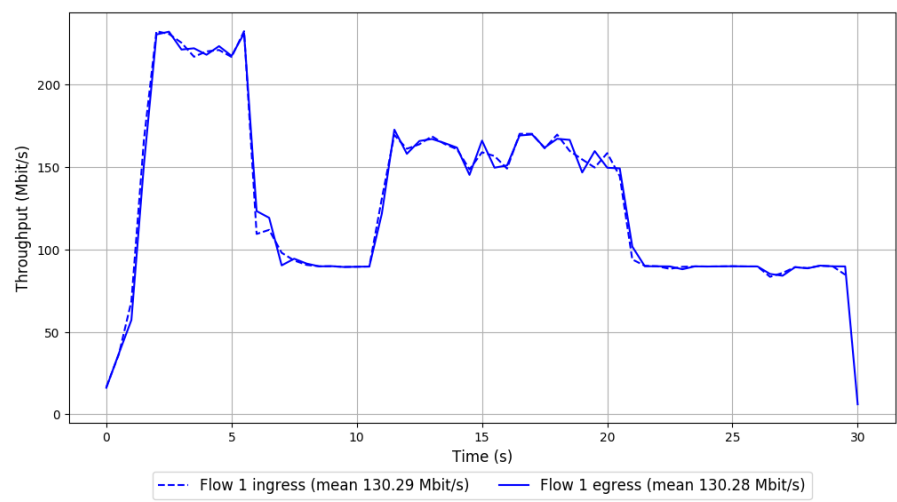
-- Flow 1:

Average throughput: 130.28 Mbit/s

95th percentile per-packet one-way delay: 63.386 ms

Loss rate: 0.00%

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

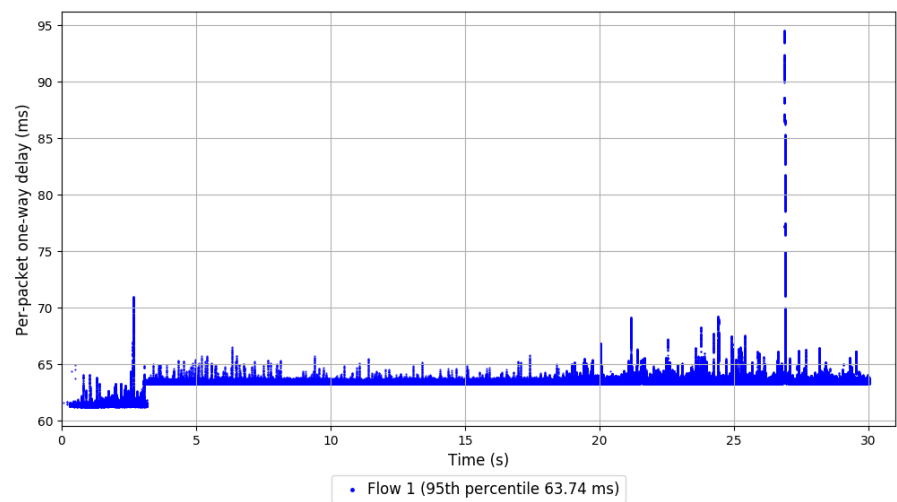
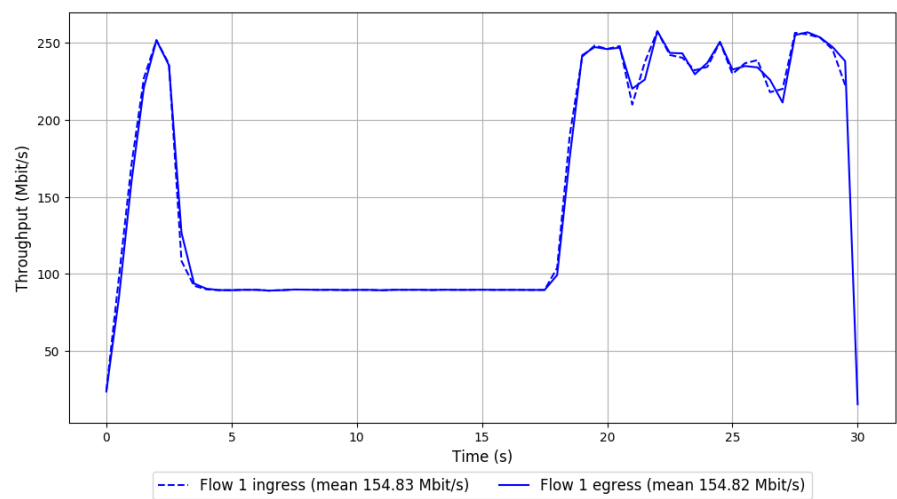


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-02-28 04:42:12
End at: 2018-02-28 04:42:42

# Below is generated by plot.py at 2018-02-28 07:47:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 154.82 Mbit/s
95th percentile per-packet one-way delay: 63.744 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 154.82 Mbit/s
95th percentile per-packet one-way delay: 63.744 ms
Loss rate: 0.00%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2018-02-28 02:32:23

End at: 2018-02-28 02:32:53

Below is generated by plot.py at 2018-02-28 07:47:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 34.47 Mbit/s

95th percentile per-packet one-way delay: 64.101 ms

Loss rate: 0.00%

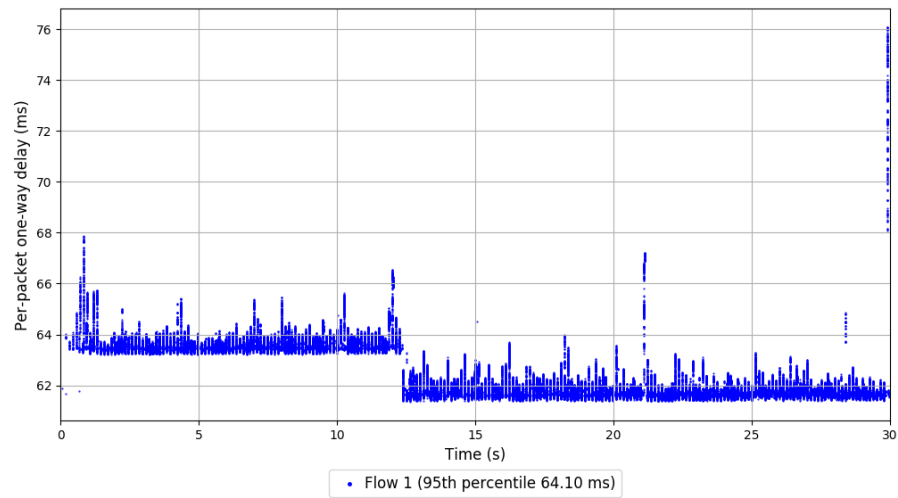
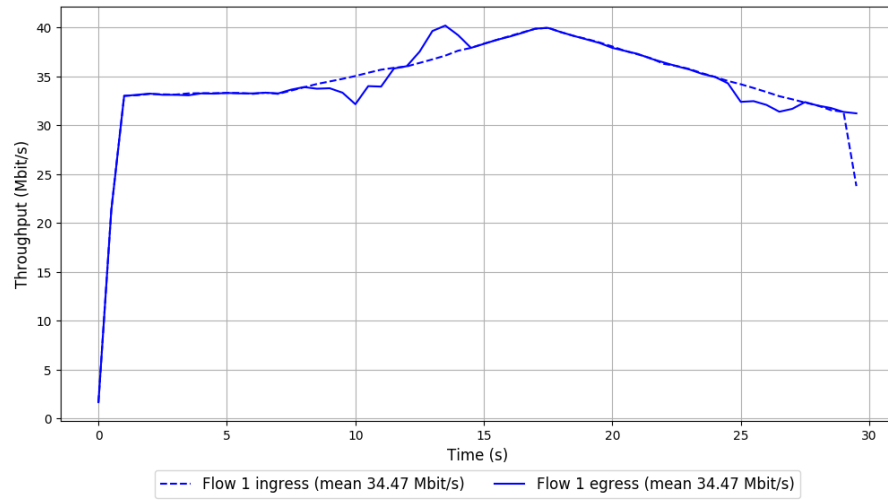
-- Flow 1:

Average throughput: 34.47 Mbit/s

95th percentile per-packet one-way delay: 64.101 ms

Loss rate: 0.00%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-02-28 02:46:51

End at: 2018-02-28 02:47:21

Below is generated by plot.py at 2018-02-28 07:47:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 124.97 Mbit/s

95th percentile per-packet one-way delay: 71.714 ms

Loss rate: 0.00%

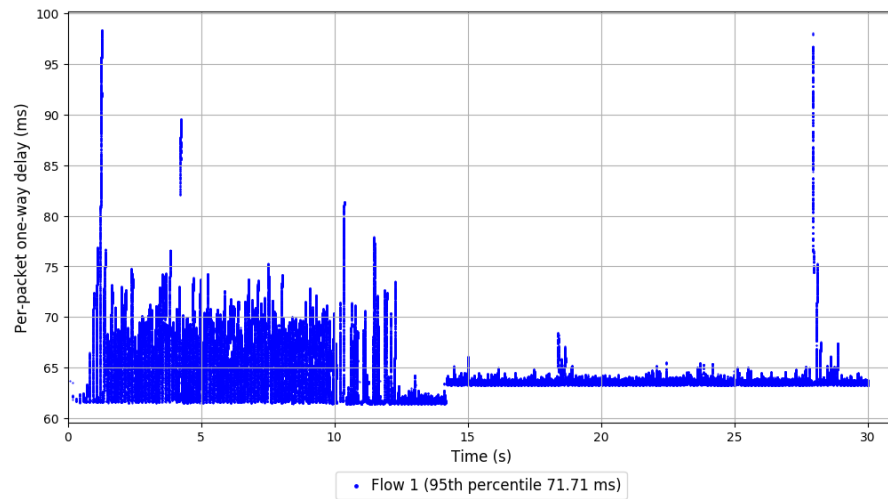
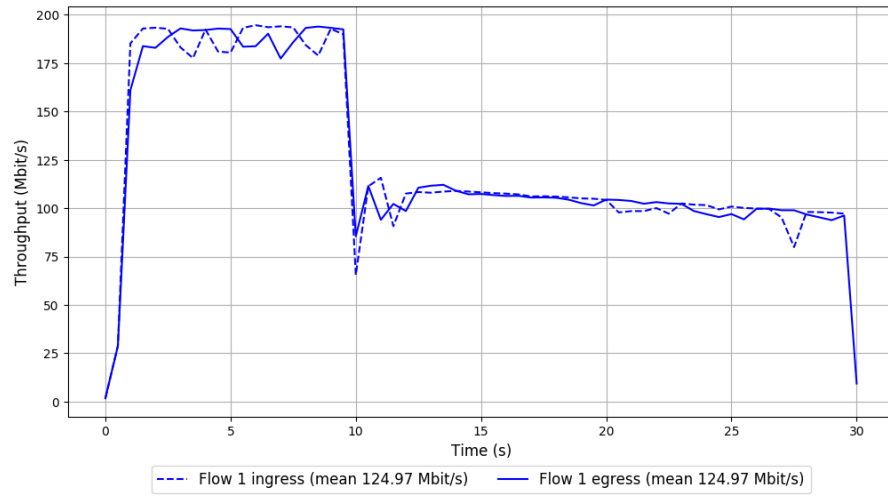
-- Flow 1:

Average throughput: 124.97 Mbit/s

95th percentile per-packet one-way delay: 71.714 ms

Loss rate: 0.00%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-02-28 03:01:18

End at: 2018-02-28 03:01:48

Below is generated by plot.py at 2018-02-28 07:47:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 161.43 Mbit/s

95th percentile per-packet one-way delay: 72.354 ms

Loss rate: 0.00%

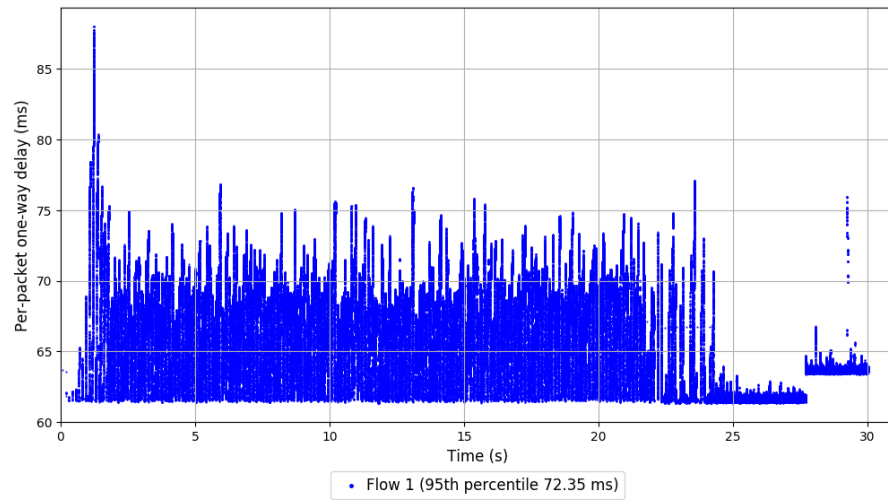
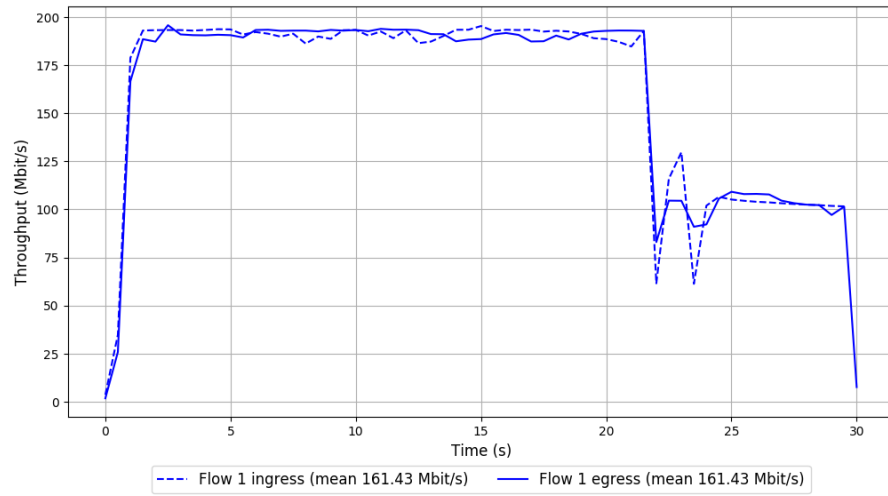
-- Flow 1:

Average throughput: 161.43 Mbit/s

95th percentile per-packet one-way delay: 72.354 ms

Loss rate: 0.00%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-02-28 03:15:54

End at: 2018-02-28 03:16:24

Below is generated by plot.py at 2018-02-28 07:47:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 36.80 Mbit/s

95th percentile per-packet one-way delay: 68.631 ms

Loss rate: 0.60%

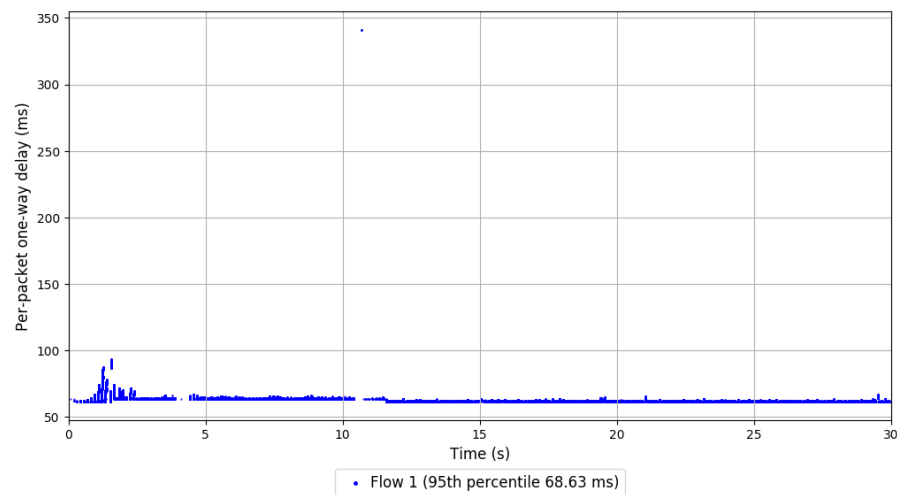
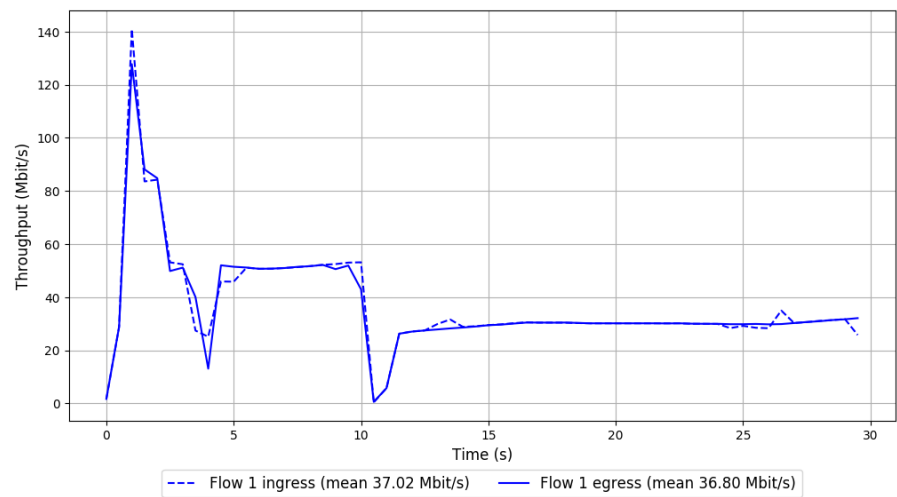
-- Flow 1:

Average throughput: 36.80 Mbit/s

95th percentile per-packet one-way delay: 68.631 ms

Loss rate: 0.60%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-02-28 03:30:21

End at: 2018-02-28 03:30:51

Below is generated by plot.py at 2018-02-28 07:47:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.36 Mbit/s

95th percentile per-packet one-way delay: 62.633 ms

Loss rate: 0.00%

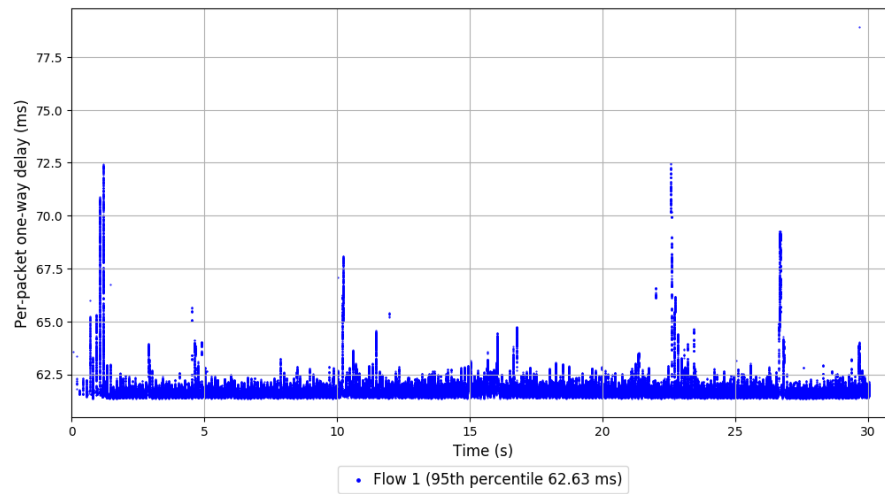
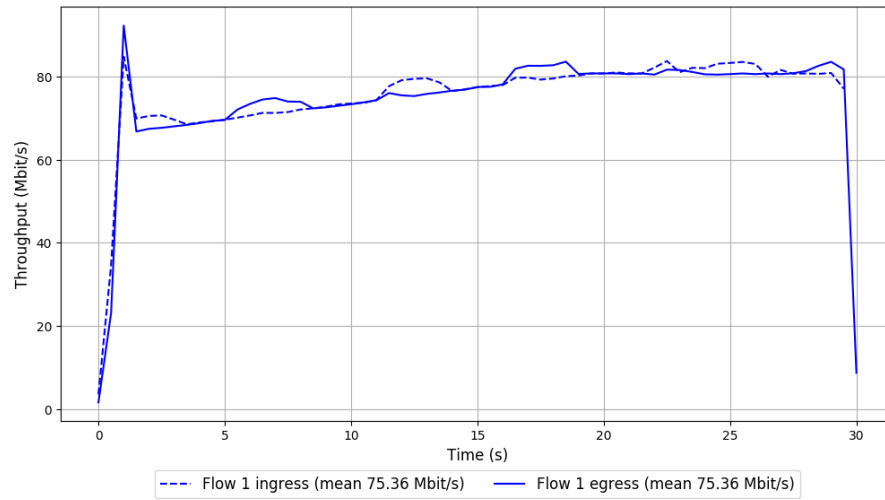
-- Flow 1:

Average throughput: 75.36 Mbit/s

95th percentile per-packet one-way delay: 62.633 ms

Loss rate: 0.00%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-02-28 03:44:47

End at: 2018-02-28 03:45:17

Below is generated by plot.py at 2018-02-28 07:47:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.32 Mbit/s

95th percentile per-packet one-way delay: 71.277 ms

Loss rate: 0.00%

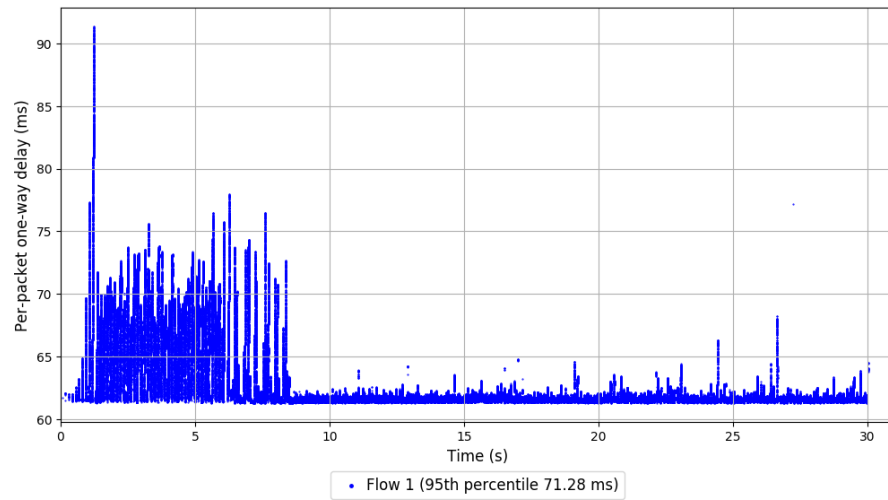
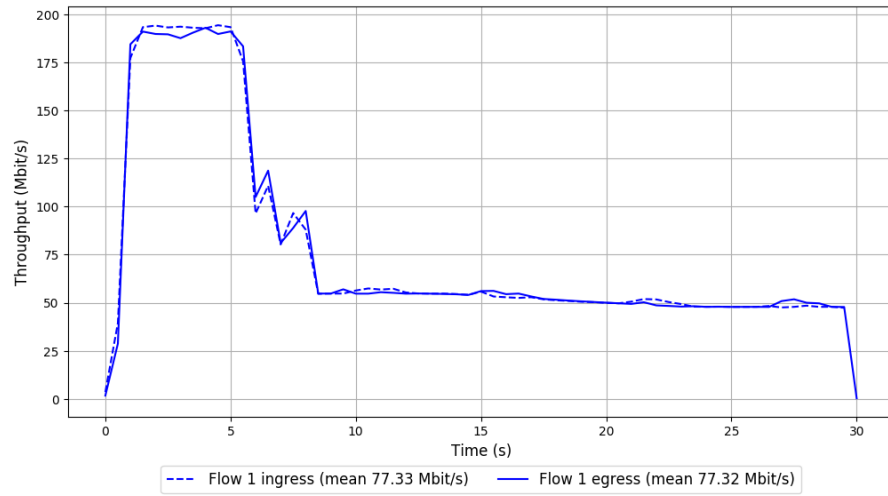
-- Flow 1:

Average throughput: 77.32 Mbit/s

95th percentile per-packet one-way delay: 71.277 ms

Loss rate: 0.00%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-02-28 03:59:17

End at: 2018-02-28 03:59:47

Below is generated by plot.py at 2018-02-28 07:47:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 158.03 Mbit/s

95th percentile per-packet one-way delay: 64.142 ms

Loss rate: 0.00%

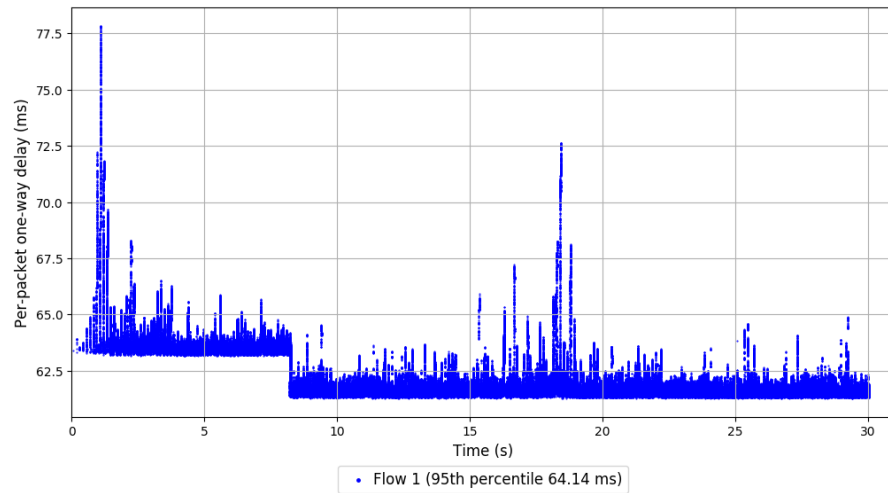
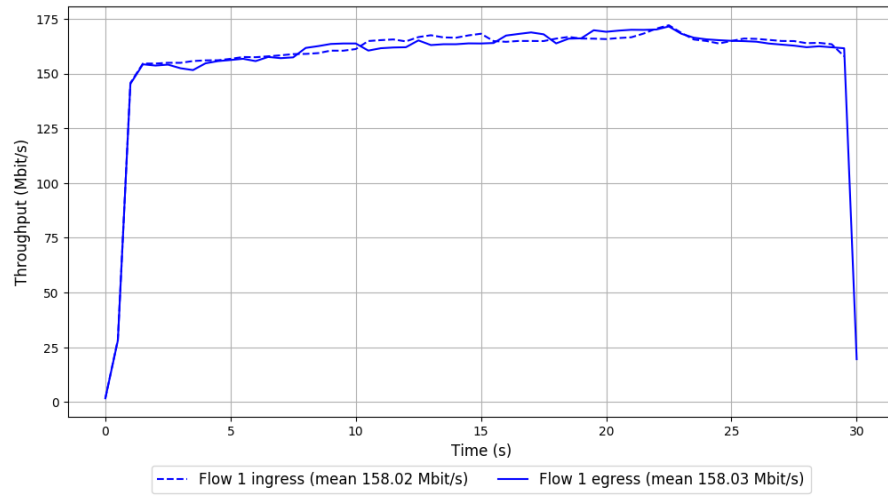
-- Flow 1:

Average throughput: 158.03 Mbit/s

95th percentile per-packet one-way delay: 64.142 ms

Loss rate: 0.00%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-02-28 04:13:58

End at: 2018-02-28 04:14:28

Below is generated by plot.py at 2018-02-28 07:47:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 62.06 Mbit/s

95th percentile per-packet one-way delay: 64.435 ms

Loss rate: 0.00%

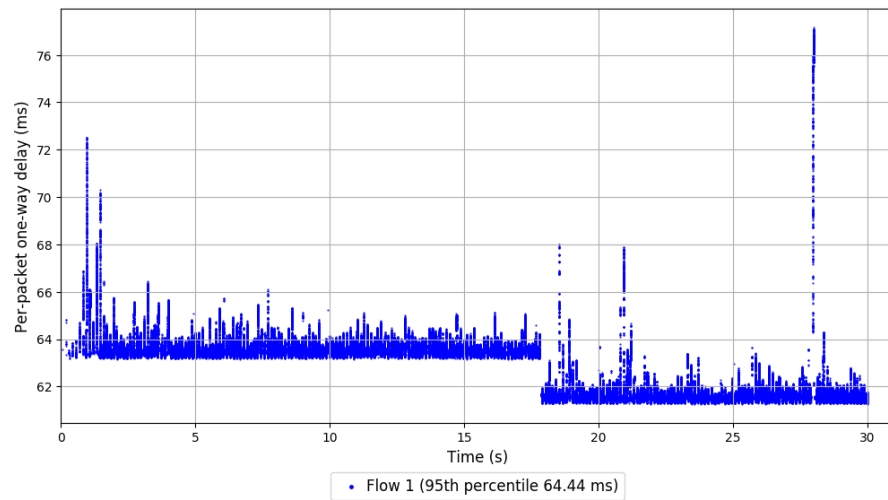
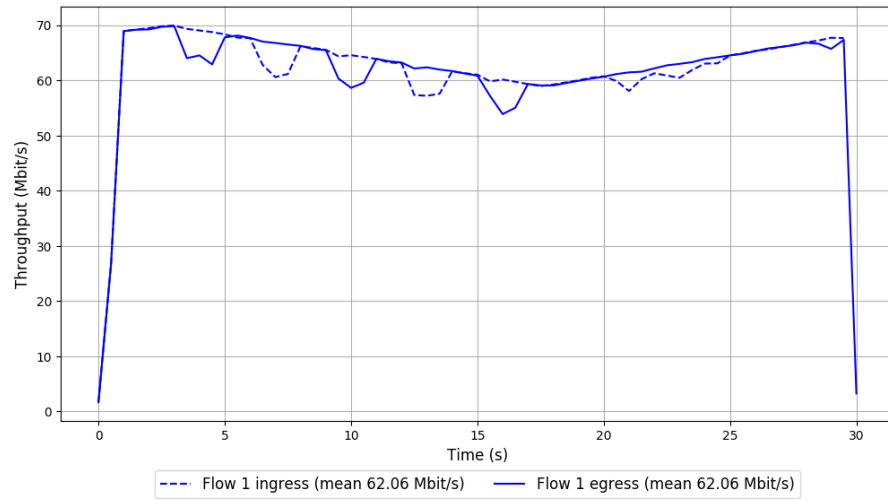
-- Flow 1:

Average throughput: 62.06 Mbit/s

95th percentile per-packet one-way delay: 64.435 ms

Loss rate: 0.00%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-02-28 04:28:29

End at: 2018-02-28 04:28:59

Below is generated by plot.py at 2018-02-28 07:47:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 133.30 Mbit/s

95th percentile per-packet one-way delay: 73.223 ms

Loss rate: 0.00%

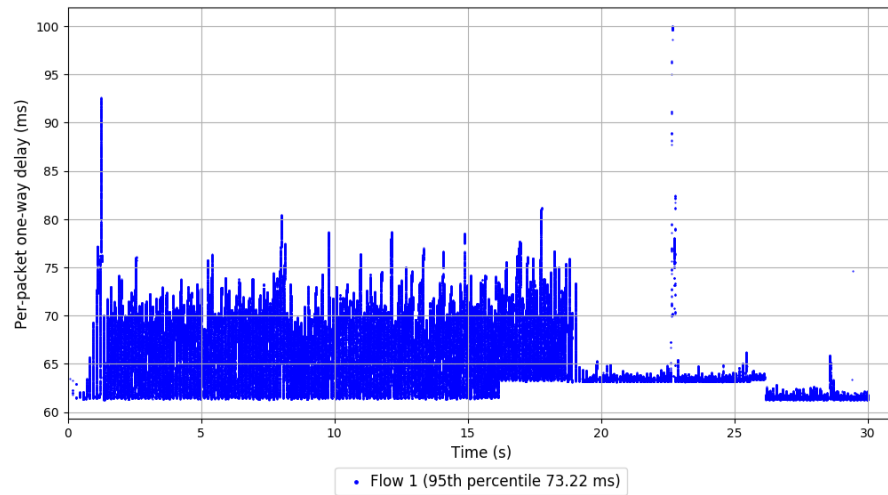
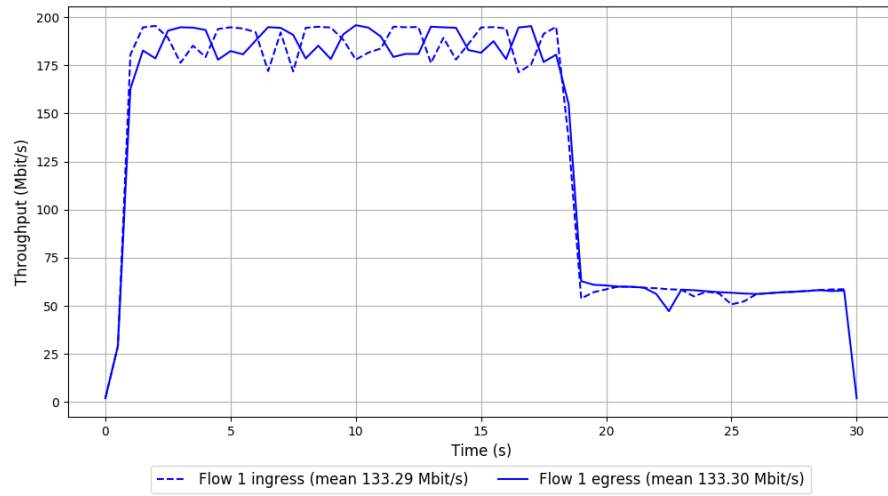
-- Flow 1:

Average throughput: 133.30 Mbit/s

95th percentile per-packet one-way delay: 73.223 ms

Loss rate: 0.00%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-02-28 04:43:05

End at: 2018-02-28 04:43:35

Below is generated by plot.py at 2018-02-28 07:47:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.33 Mbit/s

95th percentile per-packet one-way delay: 72.929 ms

Loss rate: 0.00%

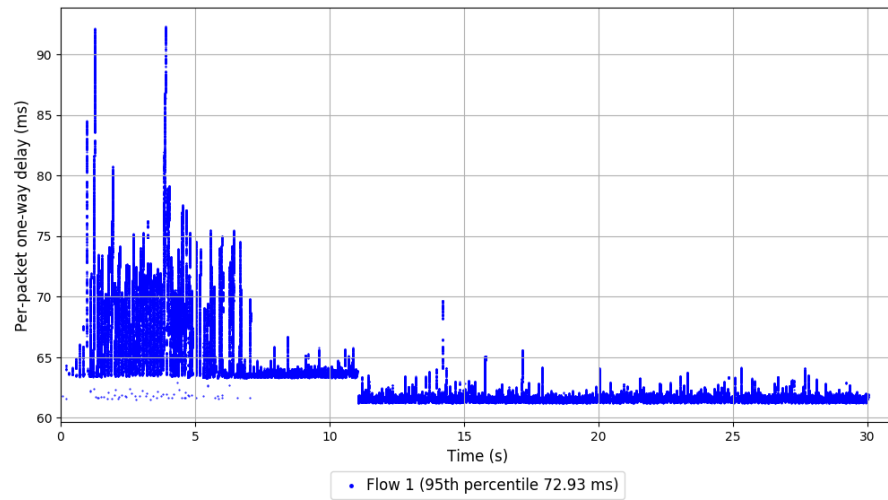
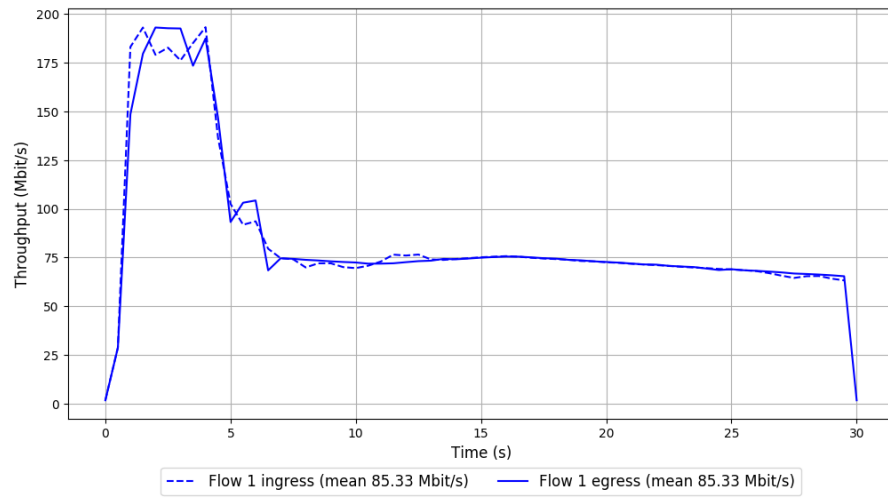
-- Flow 1:

Average throughput: 85.33 Mbit/s

95th percentile per-packet one-way delay: 72.929 ms

Loss rate: 0.00%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-02-28 02:41:18

End at: 2018-02-28 02:41:48

Below is generated by plot.py at 2018-02-28 07:50:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 209.30 Mbit/s

95th percentile per-packet one-way delay: 211.385 ms

Loss rate: 0.26%

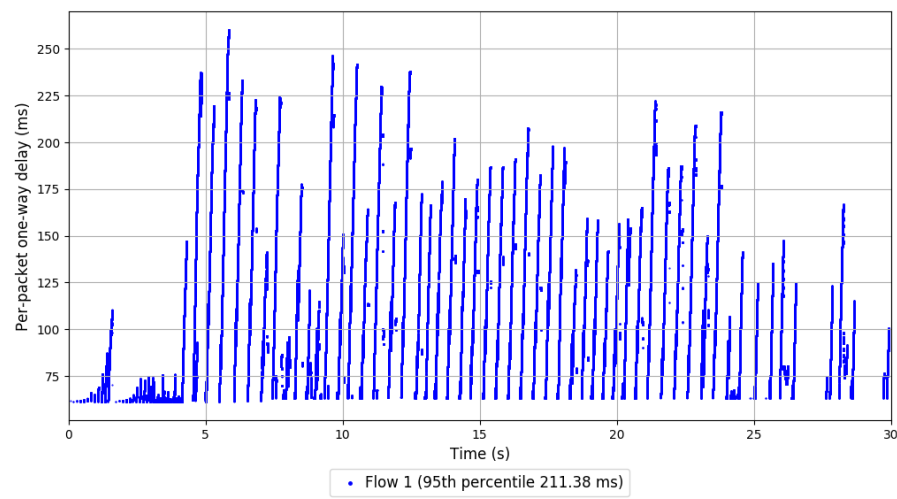
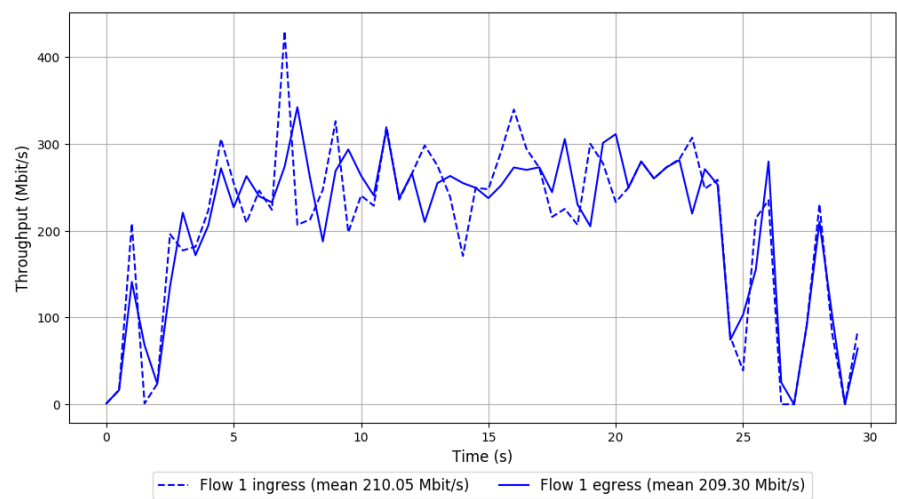
-- Flow 1:

Average throughput: 209.30 Mbit/s

95th percentile per-packet one-way delay: 211.385 ms

Loss rate: 0.26%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-02-28 02:55:53

End at: 2018-02-28 02:56:23

Below is generated by plot.py at 2018-02-28 07:50:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 193.46 Mbit/s

95th percentile per-packet one-way delay: 192.501 ms

Loss rate: 0.53%

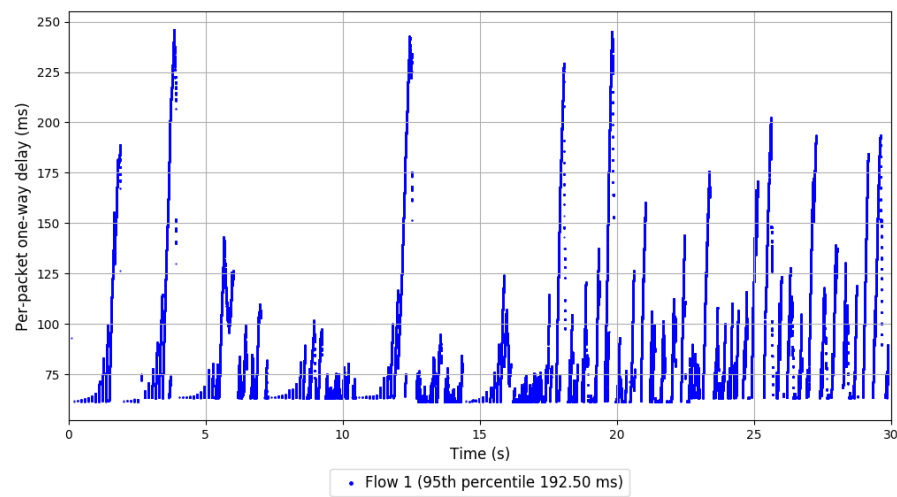
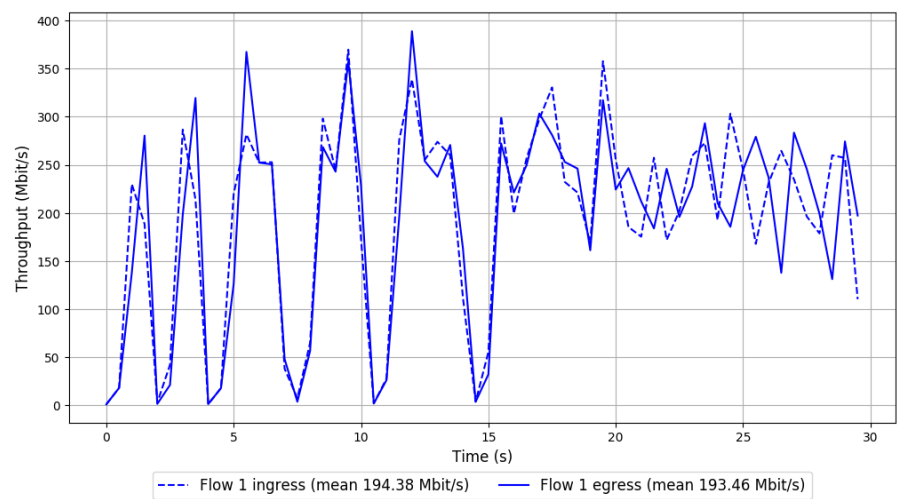
-- Flow 1:

Average throughput: 193.46 Mbit/s

95th percentile per-packet one-way delay: 192.501 ms

Loss rate: 0.53%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-02-28 03:10:24

End at: 2018-02-28 03:10:54

Below is generated by plot.py at 2018-02-28 07:51:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 205.28 Mbit/s

95th percentile per-packet one-way delay: 124.489 ms

Loss rate: 0.00%

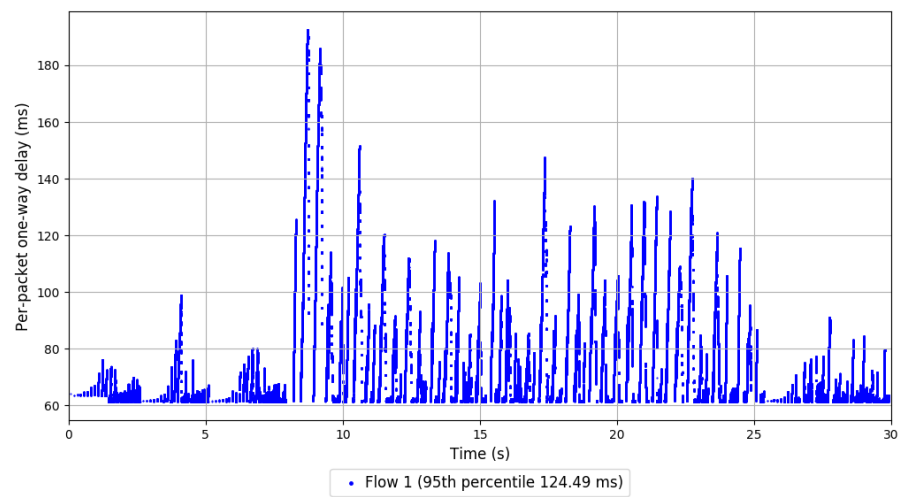
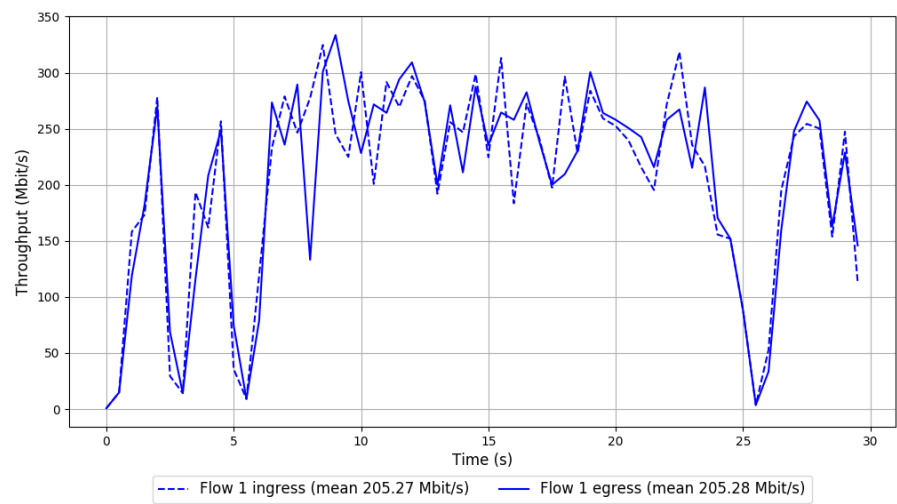
-- Flow 1:

Average throughput: 205.28 Mbit/s

95th percentile per-packet one-way delay: 124.489 ms

Loss rate: 0.00%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-02-28 03:24:52

End at: 2018-02-28 03:25:22

Below is generated by plot.py at 2018-02-28 07:51:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 197.52 Mbit/s

95th percentile per-packet one-way delay: 94.207 ms

Loss rate: 0.00%

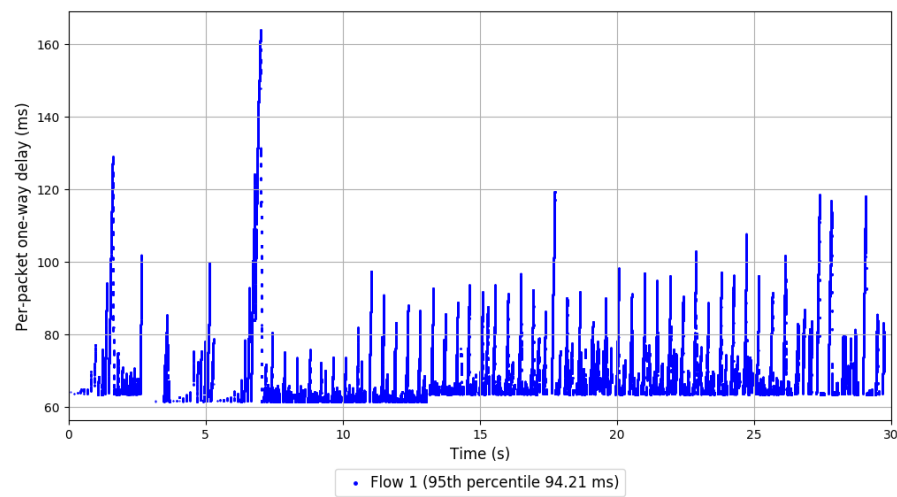
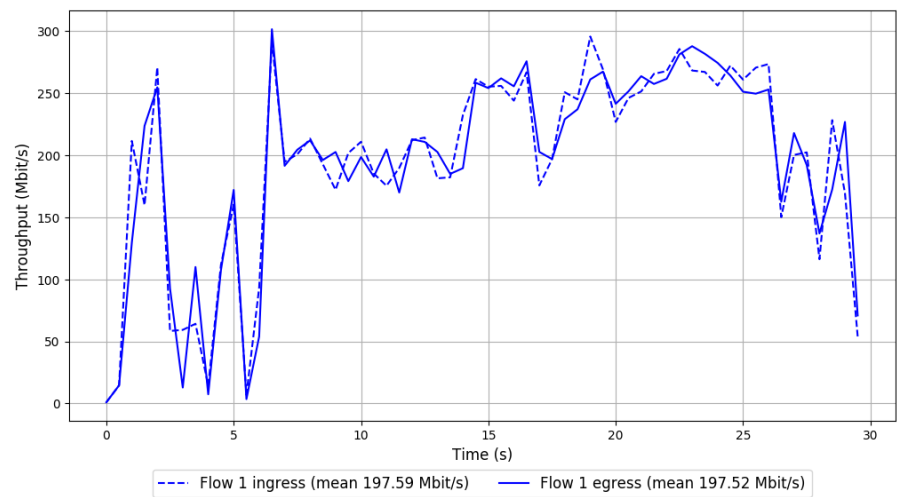
-- Flow 1:

Average throughput: 197.52 Mbit/s

95th percentile per-packet one-way delay: 94.207 ms

Loss rate: 0.00%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-02-28 03:39:22

End at: 2018-02-28 03:39:52

Below is generated by plot.py at 2018-02-28 07:52:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 189.91 Mbit/s

95th percentile per-packet one-way delay: 106.134 ms

Loss rate: 0.00%

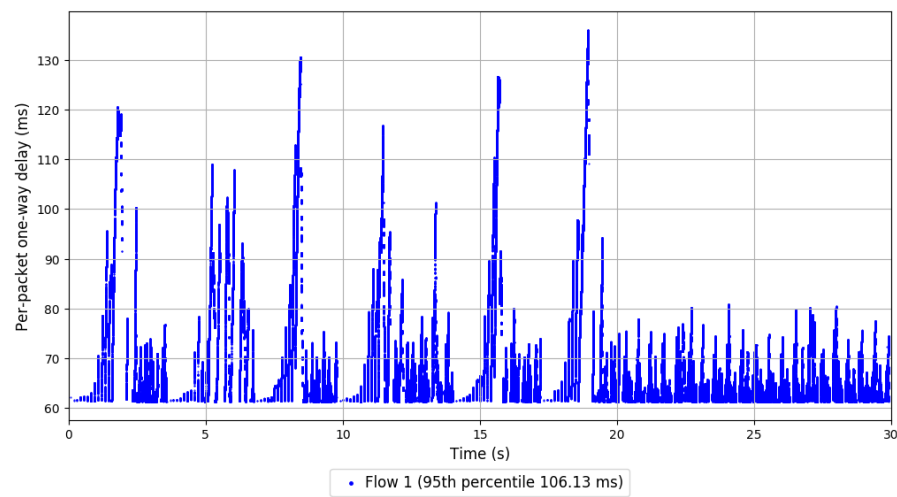
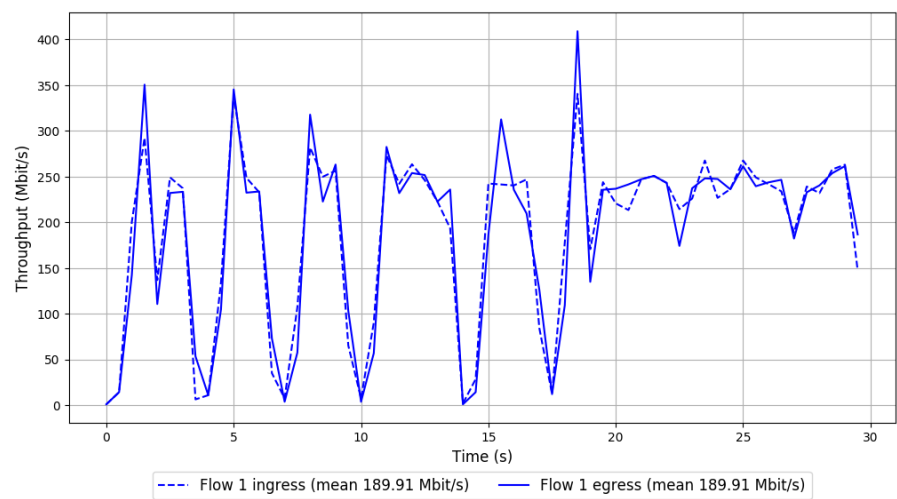
-- Flow 1:

Average throughput: 189.91 Mbit/s

95th percentile per-packet one-way delay: 106.134 ms

Loss rate: 0.00%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-02-28 03:53:49

End at: 2018-02-28 03:54:19

Below is generated by plot.py at 2018-02-28 07:52:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 160.86 Mbit/s

95th percentile per-packet one-way delay: 89.420 ms

Loss rate: 1.40%

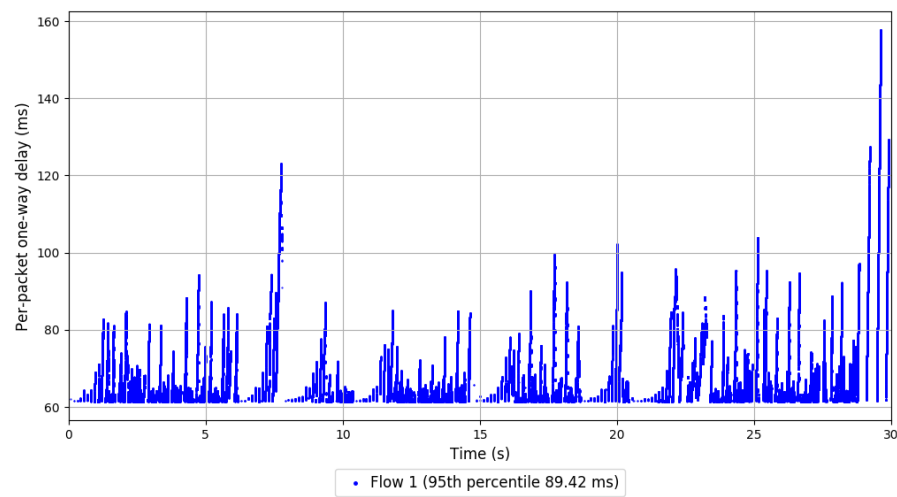
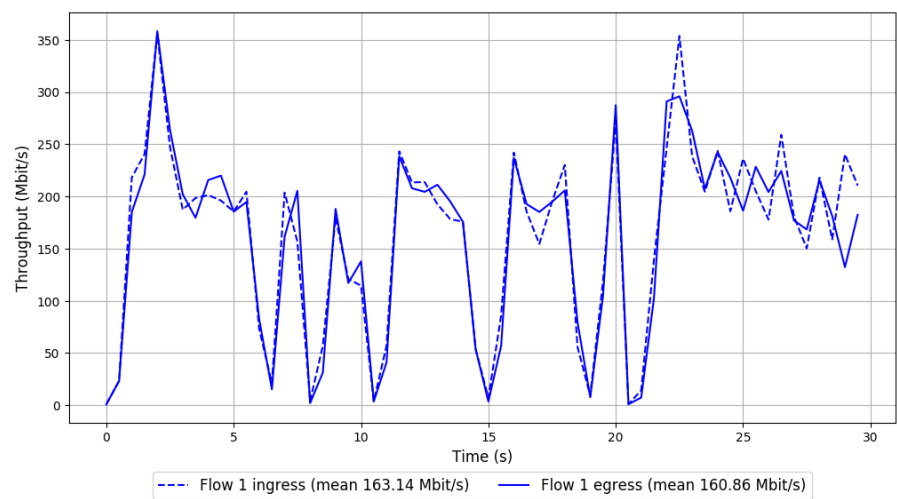
-- Flow 1:

Average throughput: 160.86 Mbit/s

95th percentile per-packet one-way delay: 89.420 ms

Loss rate: 1.40%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-02-28 04:08:22

End at: 2018-02-28 04:08:52

Below is generated by plot.py at 2018-02-28 07:52:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 193.09 Mbit/s

95th percentile per-packet one-way delay: 146.914 ms

Loss rate: 0.59%

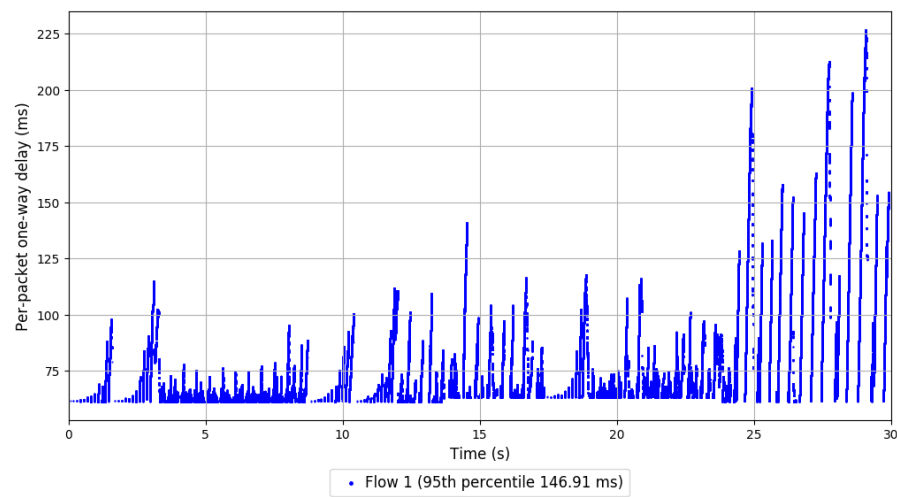
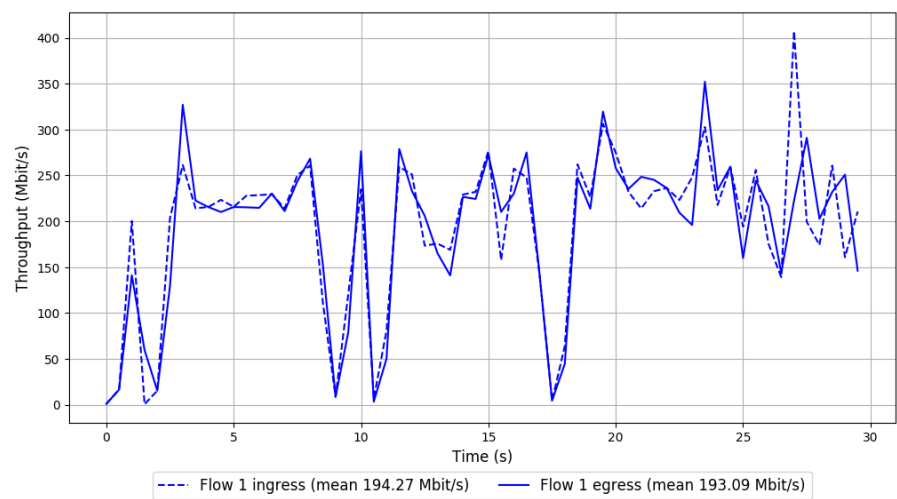
-- Flow 1:

Average throughput: 193.09 Mbit/s

95th percentile per-packet one-way delay: 146.914 ms

Loss rate: 0.59%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-02-28 04:22:59

End at: 2018-02-28 04:23:29

Below is generated by plot.py at 2018-02-28 07:53:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 197.80 Mbit/s

95th percentile per-packet one-way delay: 106.404 ms

Loss rate: 0.04%

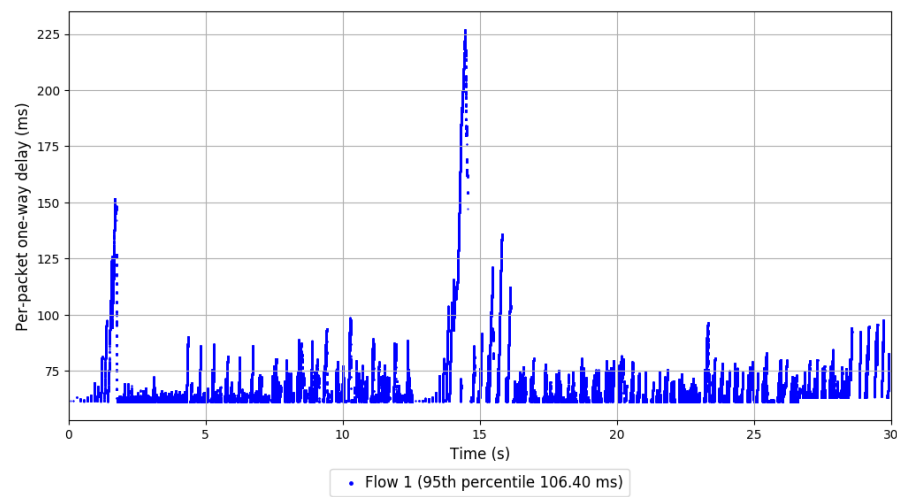
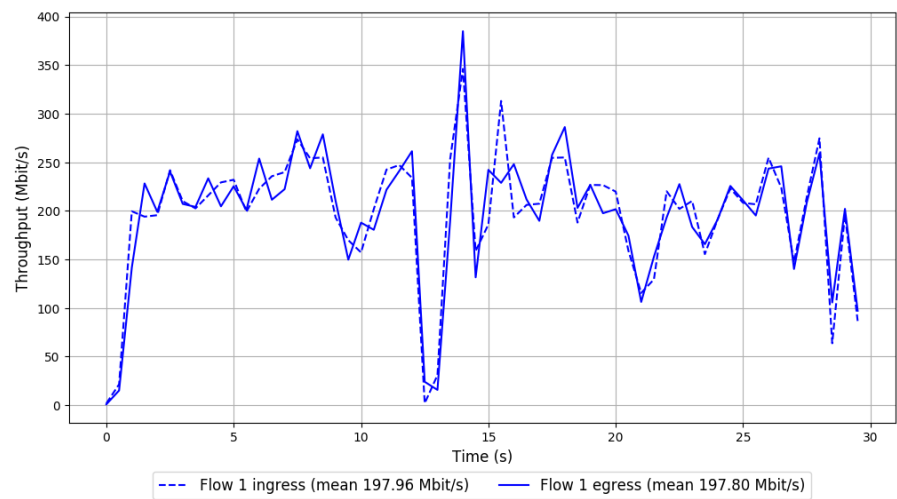
-- Flow 1:

Average throughput: 197.80 Mbit/s

95th percentile per-packet one-way delay: 106.404 ms

Loss rate: 0.04%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-02-28 04:37:28

End at: 2018-02-28 04:37:58

Below is generated by plot.py at 2018-02-28 07:56:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 194.57 Mbit/s

95th percentile per-packet one-way delay: 117.702 ms

Loss rate: 0.00%

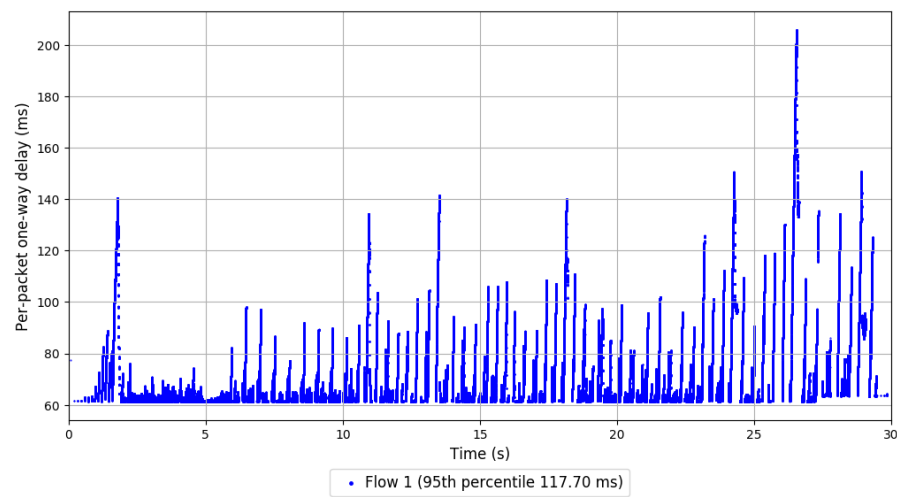
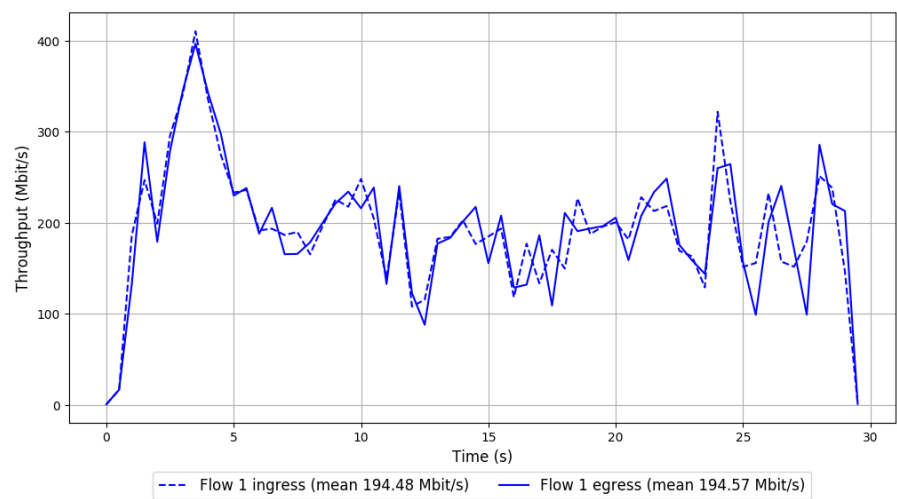
-- Flow 1:

Average throughput: 194.57 Mbit/s

95th percentile per-packet one-way delay: 117.702 ms

Loss rate: 0.00%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-02-28 04:52:10

End at: 2018-02-28 04:52:40

Below is generated by plot.py at 2018-02-28 07:56:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 158.98 Mbit/s

95th percentile per-packet one-way delay: 112.945 ms

Loss rate: 0.00%

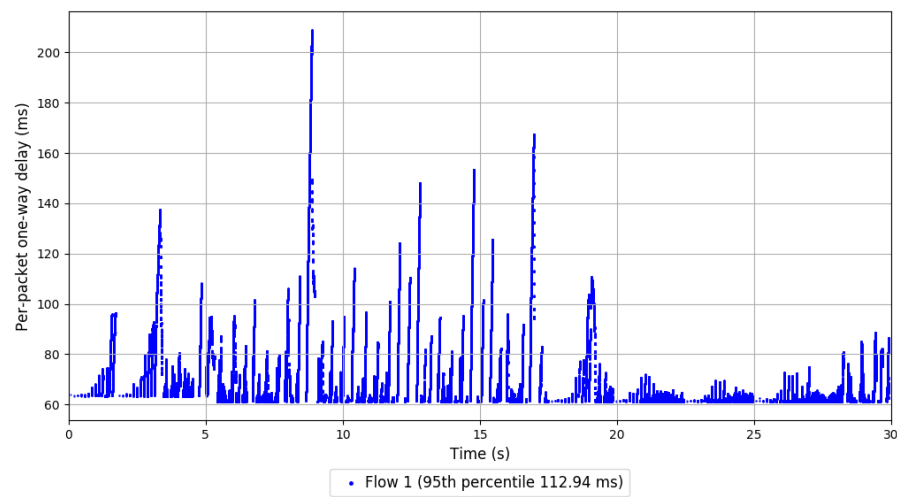
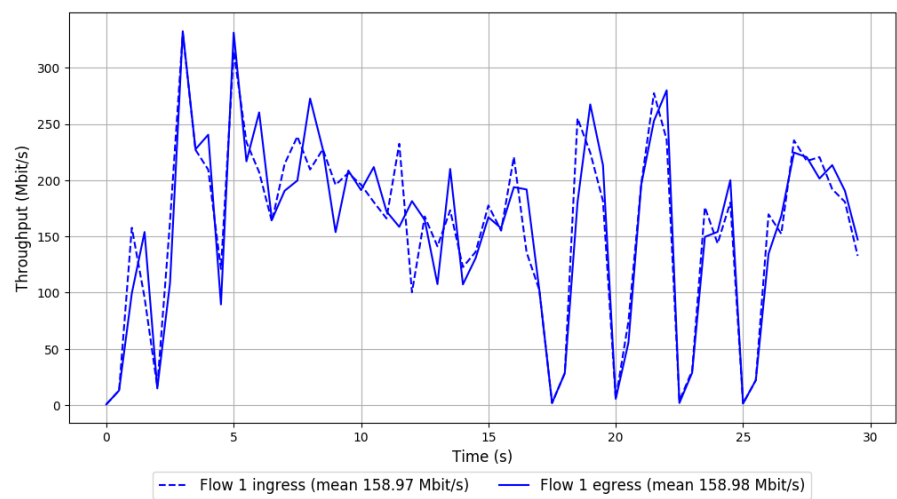
-- Flow 1:

Average throughput: 158.98 Mbit/s

95th percentile per-packet one-way delay: 112.945 ms

Loss rate: 0.00%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2018-02-28 02:35:54

End at: 2018-02-28 02:36:24

Below is generated by plot.py at 2018-02-28 07:56:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.56 Mbit/s

95th percentile per-packet one-way delay: 63.481 ms

Loss rate: 0.00%

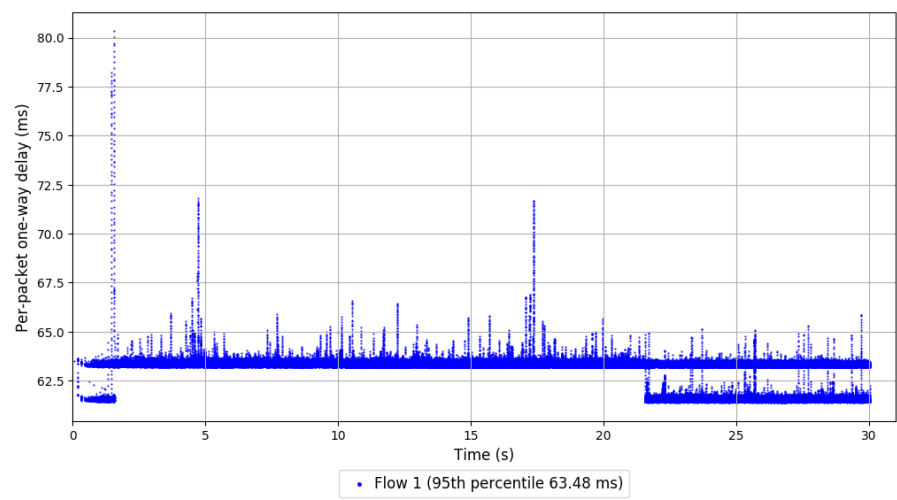
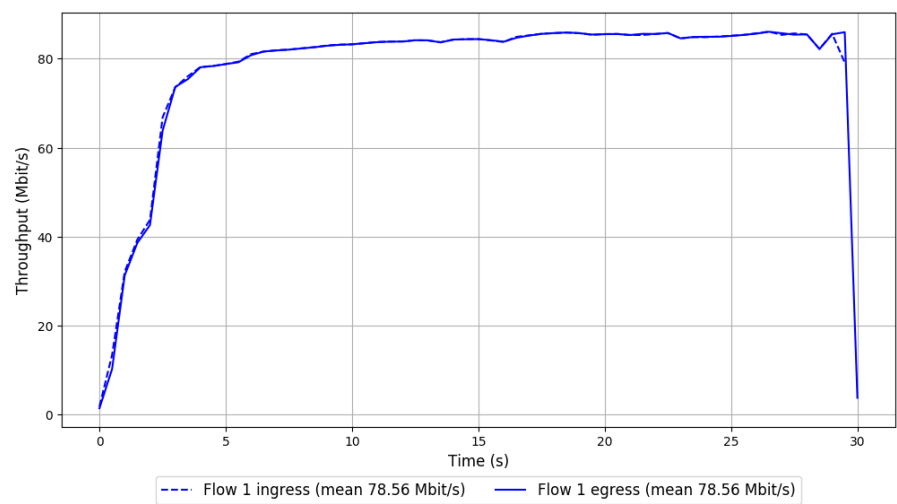
-- Flow 1:

Average throughput: 78.56 Mbit/s

95th percentile per-packet one-way delay: 63.481 ms

Loss rate: 0.00%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-02-28 02:50:30

End at: 2018-02-28 02:51:00

Below is generated by plot.py at 2018-02-28 07:56:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.88 Mbit/s

95th percentile per-packet one-way delay: 63.514 ms

Loss rate: 0.00%

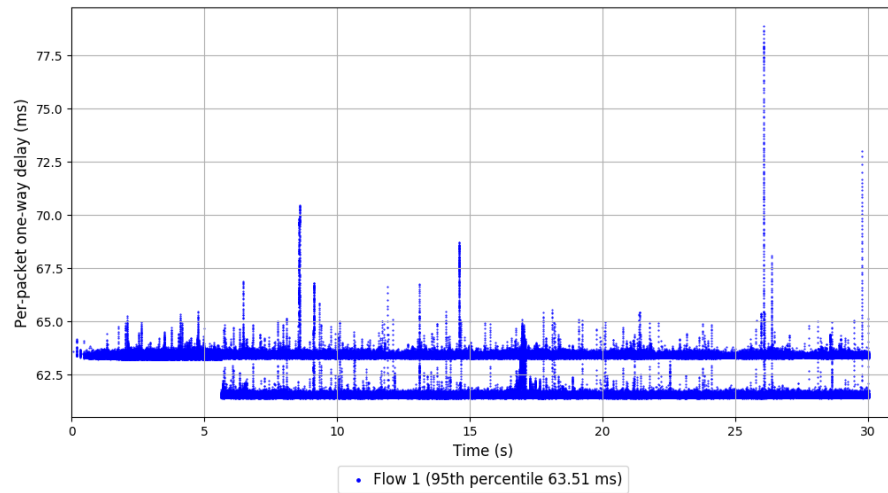
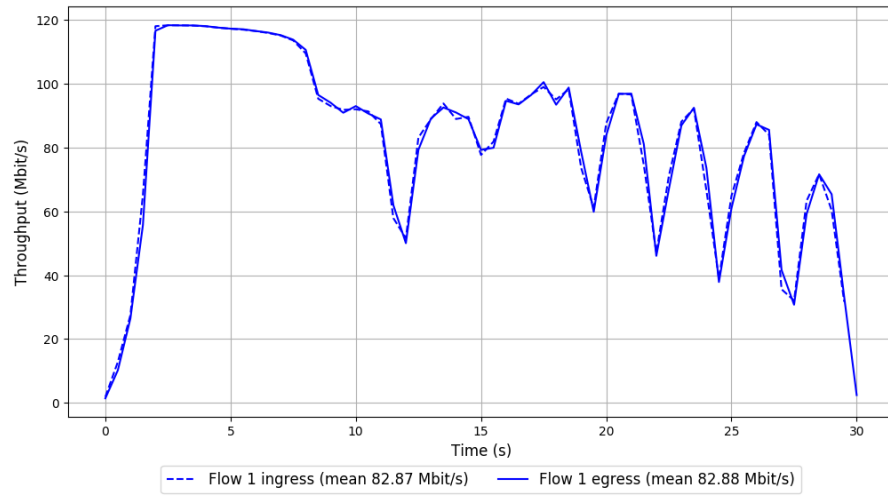
-- Flow 1:

Average throughput: 82.88 Mbit/s

95th percentile per-packet one-way delay: 63.514 ms

Loss rate: 0.00%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-02-28 03:04:59

End at: 2018-02-28 03:05:29

Below is generated by plot.py at 2018-02-28 07:56:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.41 Mbit/s

95th percentile per-packet one-way delay: 63.583 ms

Loss rate: 0.00%

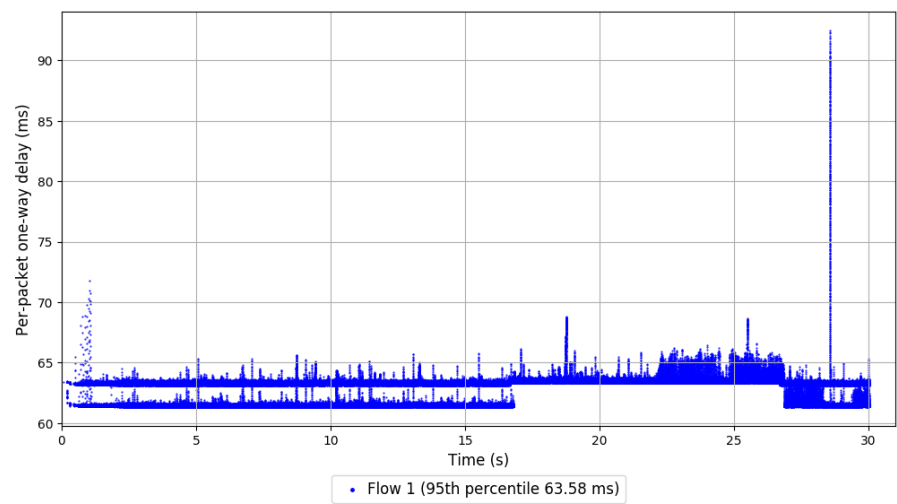
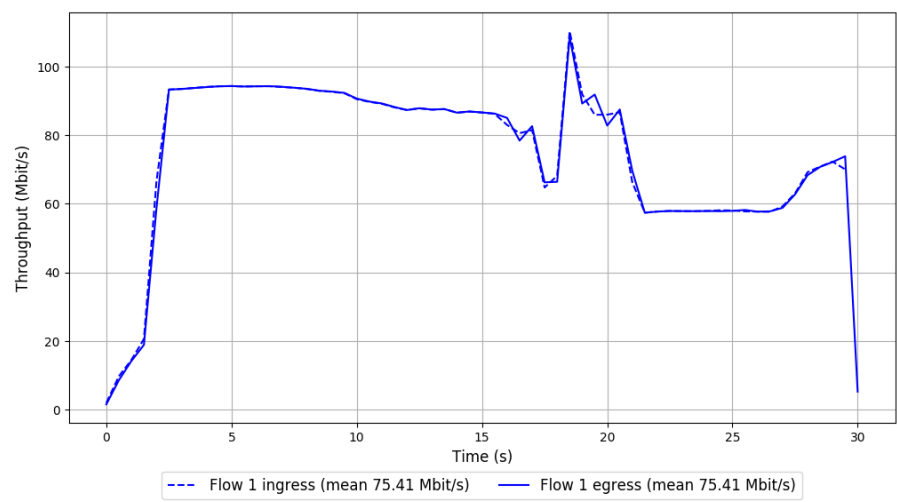
-- Flow 1:

Average throughput: 75.41 Mbit/s

95th percentile per-packet one-way delay: 63.583 ms

Loss rate: 0.00%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-02-28 03:19:27

End at: 2018-02-28 03:19:57

Below is generated by plot.py at 2018-02-28 07:56:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 80.30 Mbit/s

95th percentile per-packet one-way delay: 63.373 ms

Loss rate: 0.00%

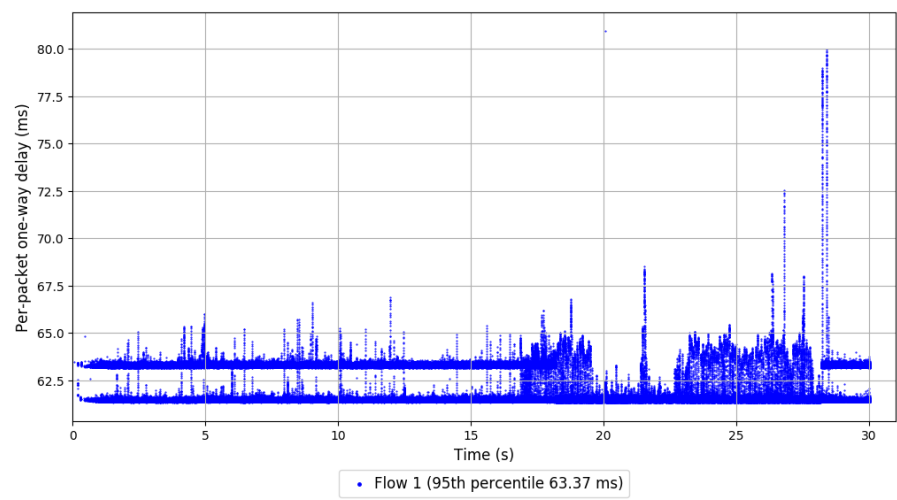
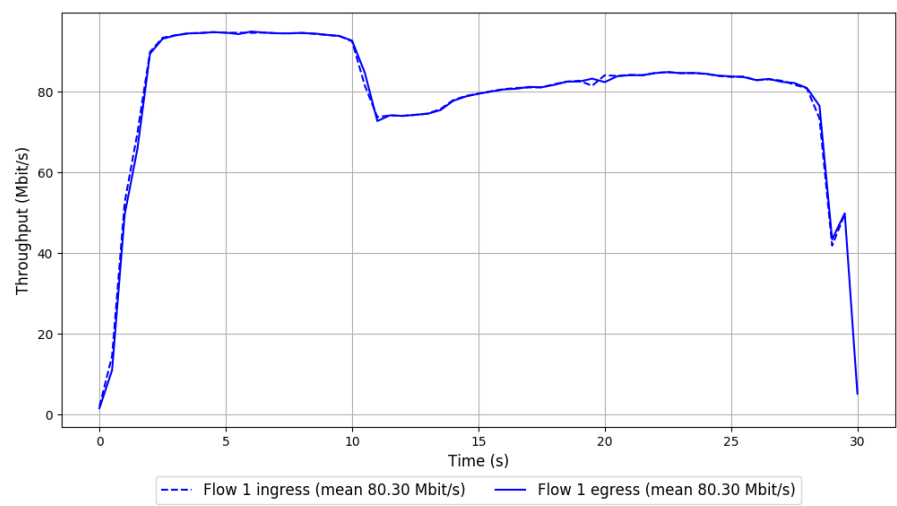
-- Flow 1:

Average throughput: 80.30 Mbit/s

95th percentile per-packet one-way delay: 63.373 ms

Loss rate: 0.00%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-02-28 03:33:56

End at: 2018-02-28 03:34:26

Below is generated by plot.py at 2018-02-28 07:56:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 66.89 Mbit/s

95th percentile per-packet one-way delay: 63.400 ms

Loss rate: 0.00%

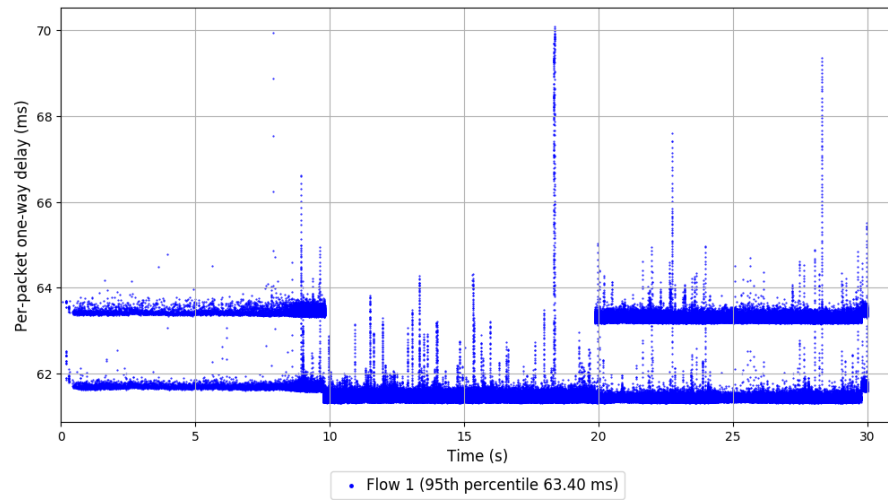
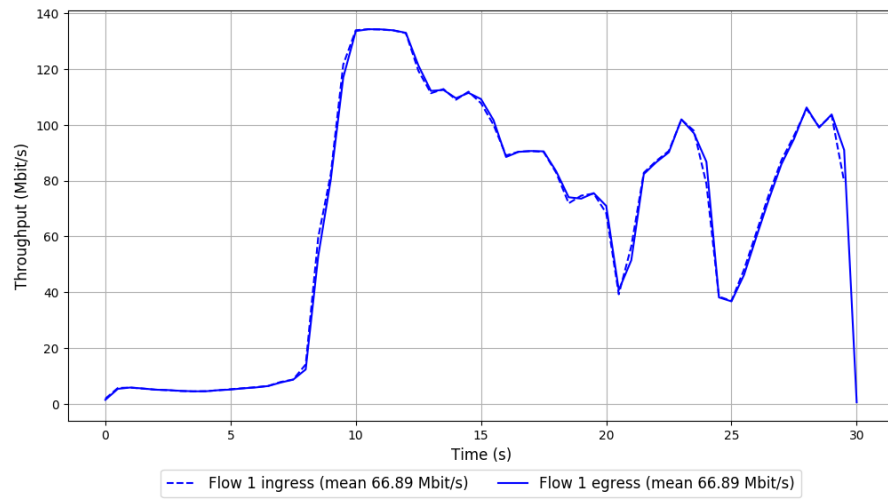
-- Flow 1:

Average throughput: 66.89 Mbit/s

95th percentile per-packet one-way delay: 63.400 ms

Loss rate: 0.00%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-02-28 03:48:22

End at: 2018-02-28 03:48:52

Below is generated by plot.py at 2018-02-28 07:56:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 58.62 Mbit/s

95th percentile per-packet one-way delay: 61.574 ms

Loss rate: 0.00%

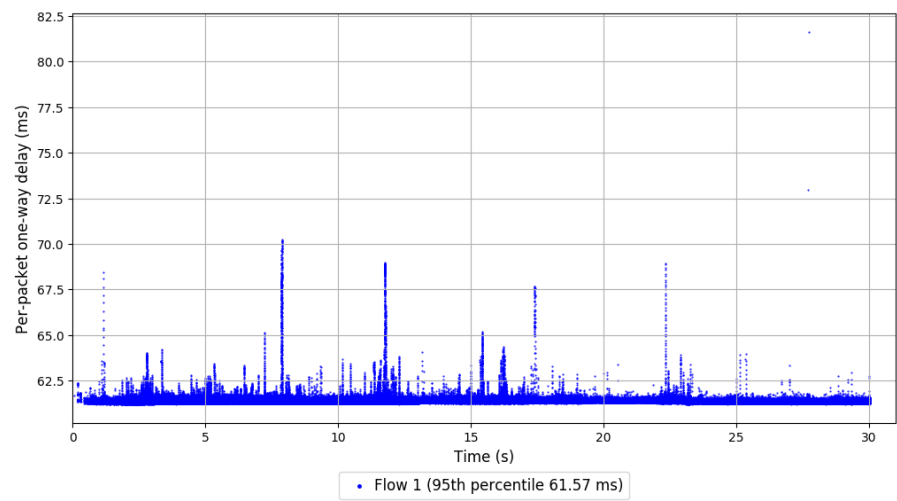
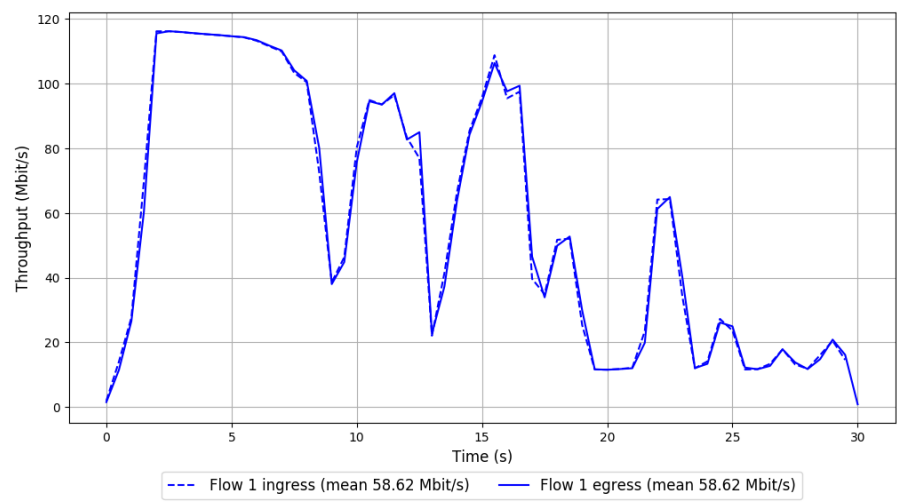
-- Flow 1:

Average throughput: 58.62 Mbit/s

95th percentile per-packet one-way delay: 61.574 ms

Loss rate: 0.00%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-02-28 04:02:56

End at: 2018-02-28 04:03:26

Below is generated by plot.py at 2018-02-28 07:58:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.37 Mbit/s

95th percentile per-packet one-way delay: 63.475 ms

Loss rate: 0.00%

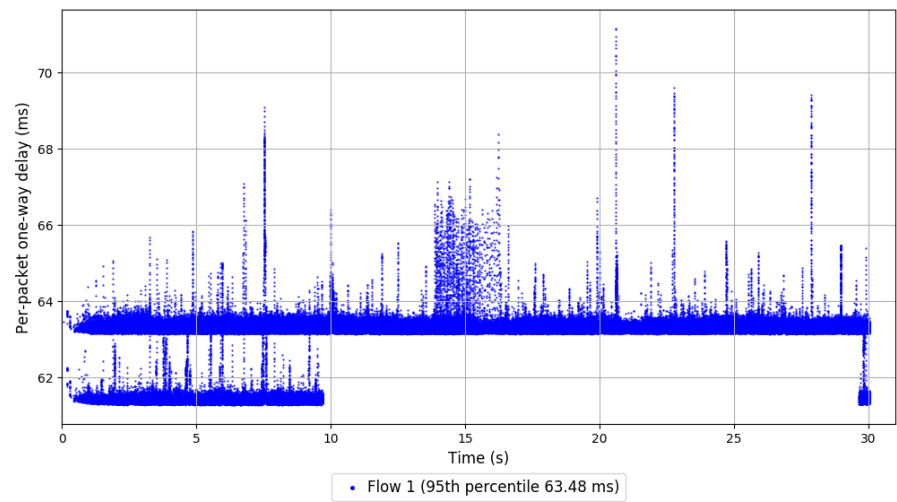
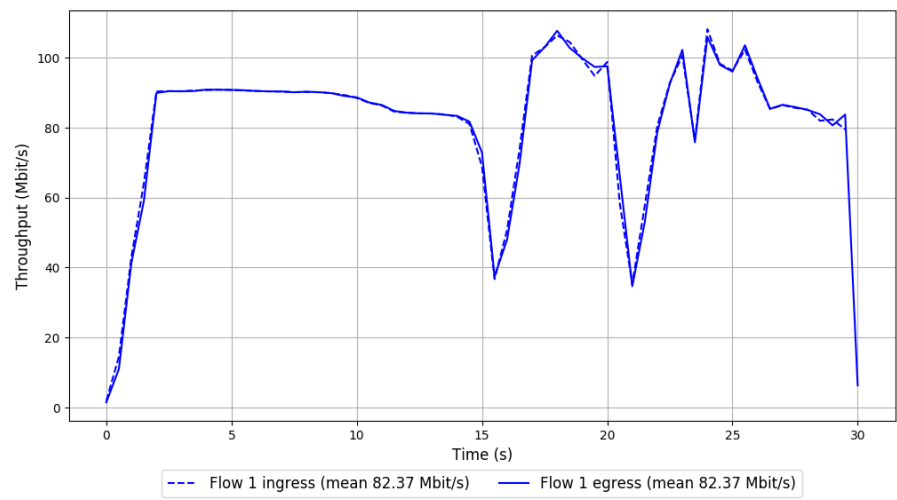
-- Flow 1:

Average throughput: 82.37 Mbit/s

95th percentile per-packet one-way delay: 63.475 ms

Loss rate: 0.00%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-02-28 04:17:31

End at: 2018-02-28 04:18:01

Below is generated by plot.py at 2018-02-28 07:59:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 80.48 Mbit/s

95th percentile per-packet one-way delay: 63.378 ms

Loss rate: 0.00%

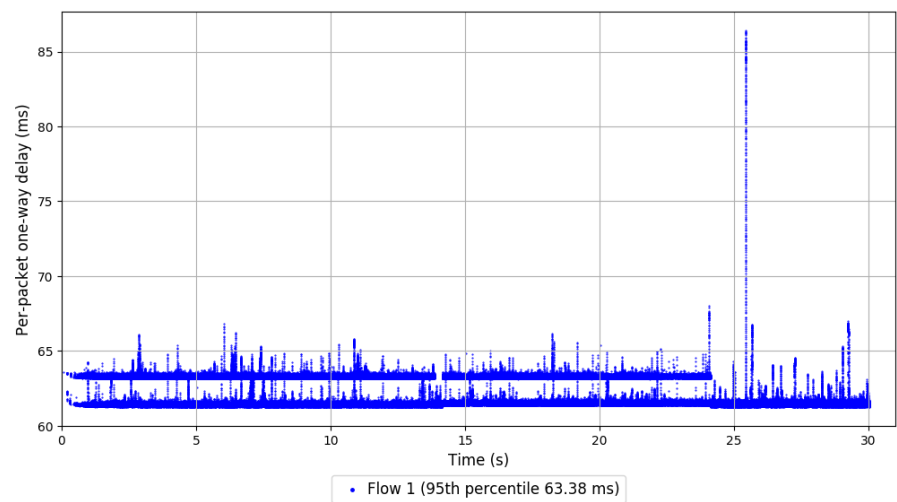
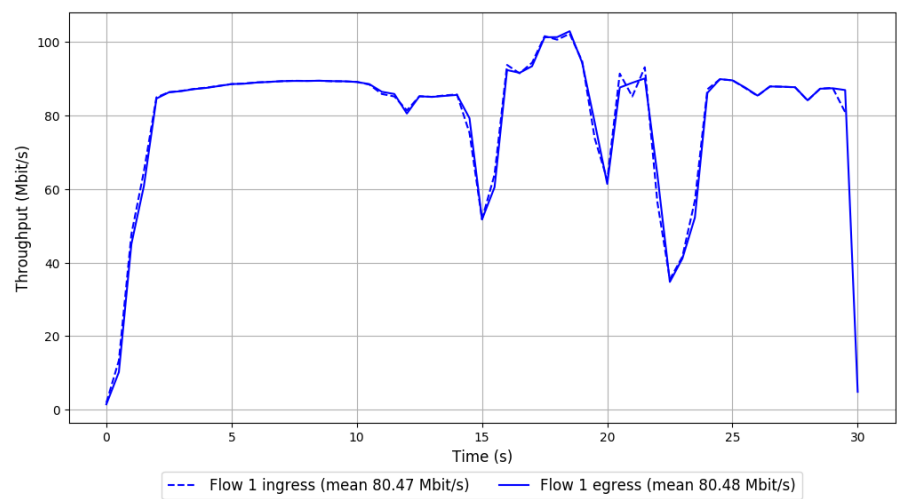
-- Flow 1:

Average throughput: 80.48 Mbit/s

95th percentile per-packet one-way delay: 63.378 ms

Loss rate: 0.00%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-02-28 04:32:08

End at: 2018-02-28 04:32:38

Below is generated by plot.py at 2018-02-28 07:59:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.96 Mbit/s

95th percentile per-packet one-way delay: 63.484 ms

Loss rate: 0.00%

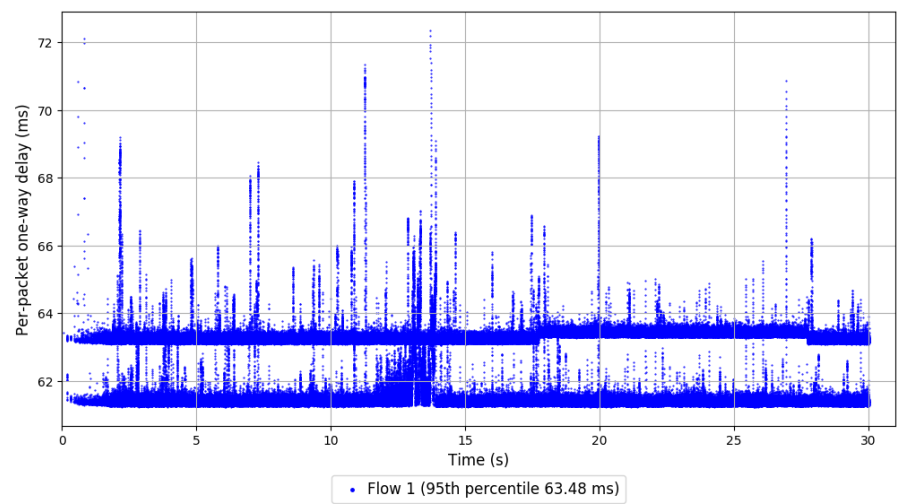
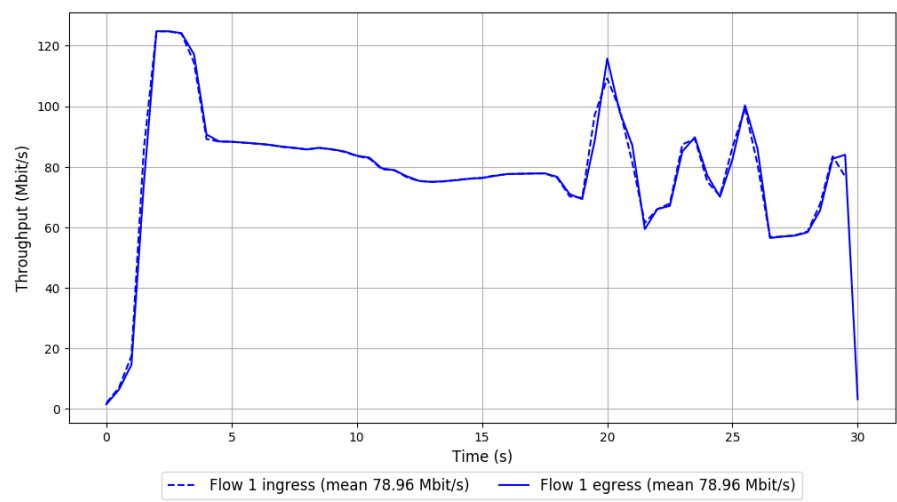
-- Flow 1:

Average throughput: 78.96 Mbit/s

95th percentile per-packet one-way delay: 63.484 ms

Loss rate: 0.00%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-02-28 04:46:40

End at: 2018-02-28 04:47:10

Below is generated by plot.py at 2018-02-28 07:59:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.21 Mbit/s

95th percentile per-packet one-way delay: 63.365 ms

Loss rate: 0.00%

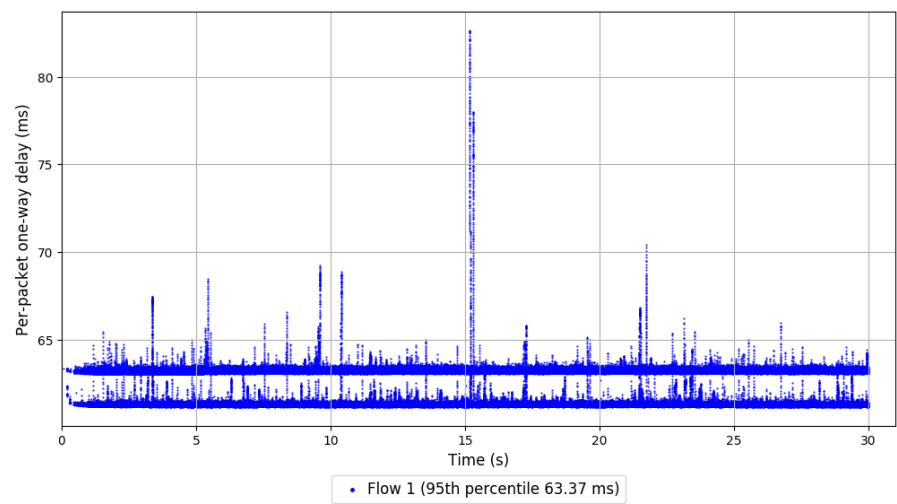
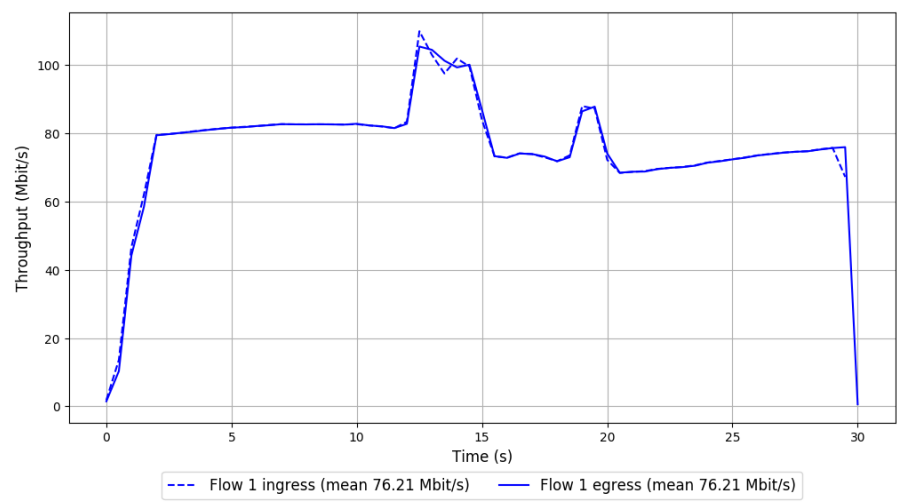
-- Flow 1:

Average throughput: 76.21 Mbit/s

95th percentile per-packet one-way delay: 63.365 ms

Loss rate: 0.00%

Run 10: Report of Copa — Data Link

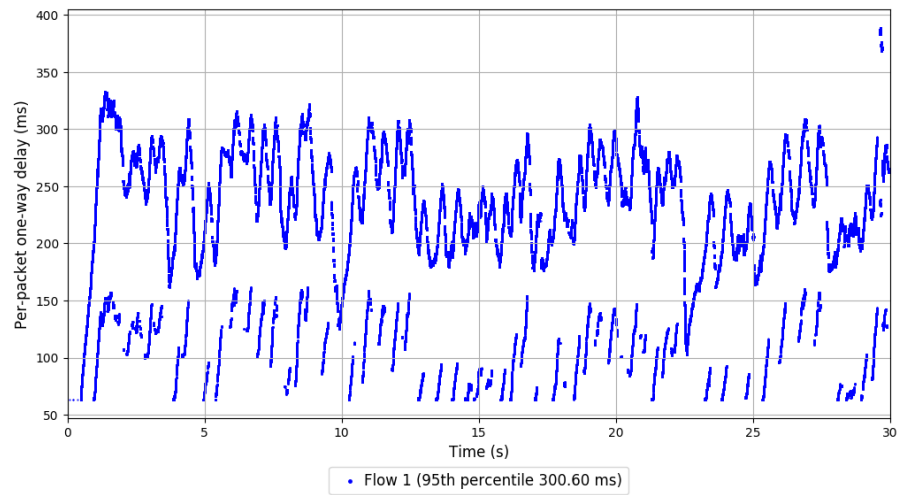
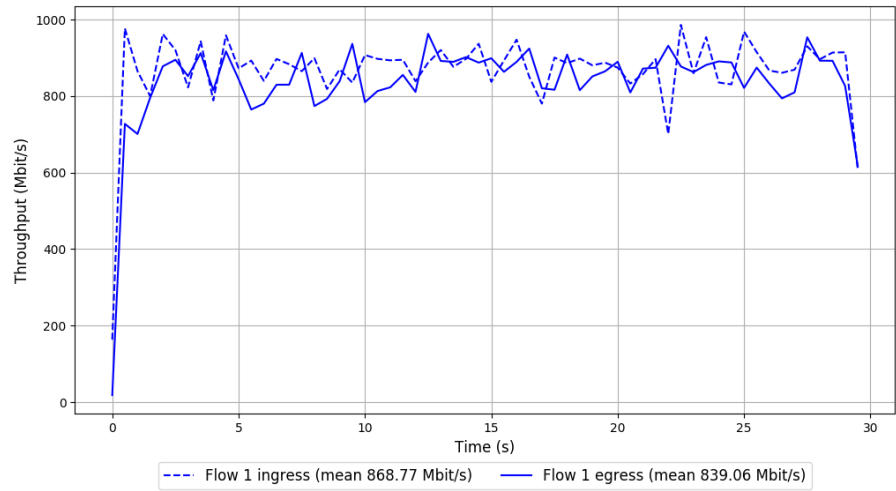


```
Run 1: Statistics of FillP

Start at: 2018-02-28 02:28:39
End at: 2018-02-28 02:29:09

# Below is generated by plot.py at 2018-02-28 08:21:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 839.06 Mbit/s
95th percentile per-packet one-way delay: 300.597 ms
Loss rate: 3.42%
-- Flow 1:
Average throughput: 839.06 Mbit/s
95th percentile per-packet one-way delay: 300.597 ms
Loss rate: 3.42%
```


Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-02-28 02:43:12

End at: 2018-02-28 02:43:42

Below is generated by plot.py at 2018-02-28 08:21:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 780.03 Mbit/s

95th percentile per-packet one-way delay: 326.570 ms

Loss rate: 5.75%

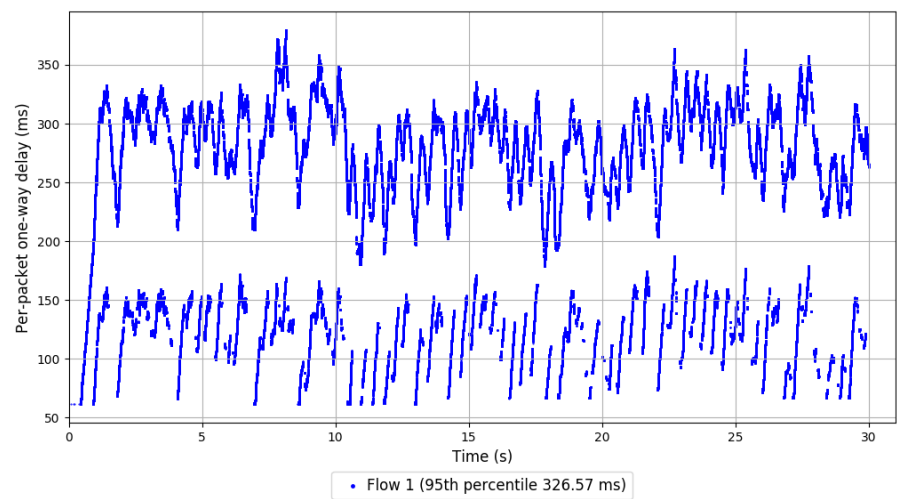
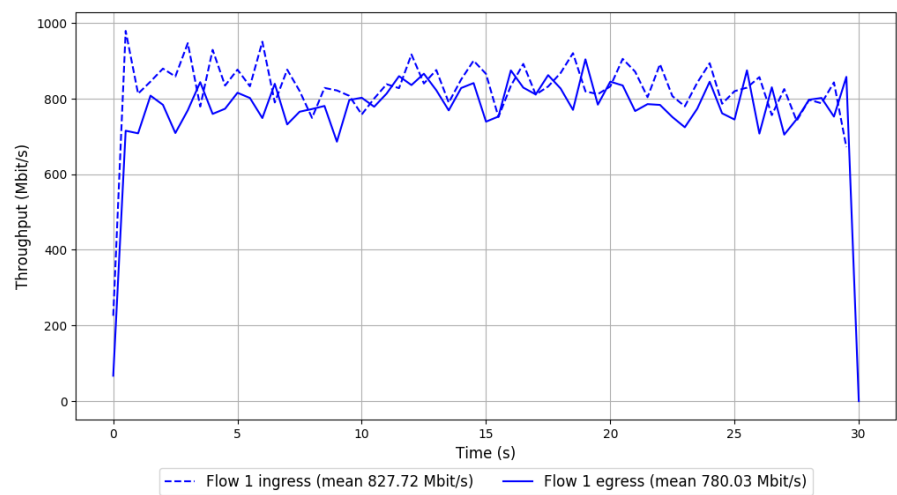
-- Flow 1:

Average throughput: 780.03 Mbit/s

95th percentile per-packet one-way delay: 326.570 ms

Loss rate: 5.75%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-02-28 02:57:42

End at: 2018-02-28 02:58:12

Below is generated by plot.py at 2018-02-28 08:21:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 834.39 Mbit/s

95th percentile per-packet one-way delay: 303.133 ms

Loss rate: 4.90%

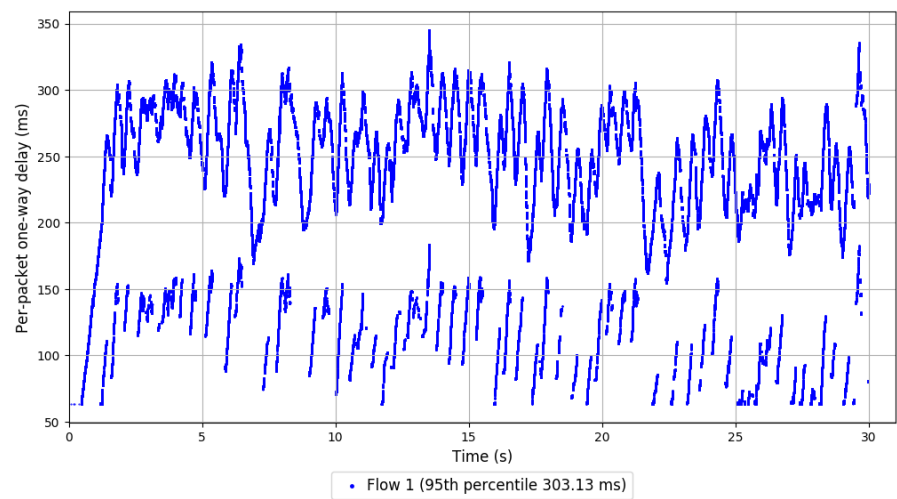
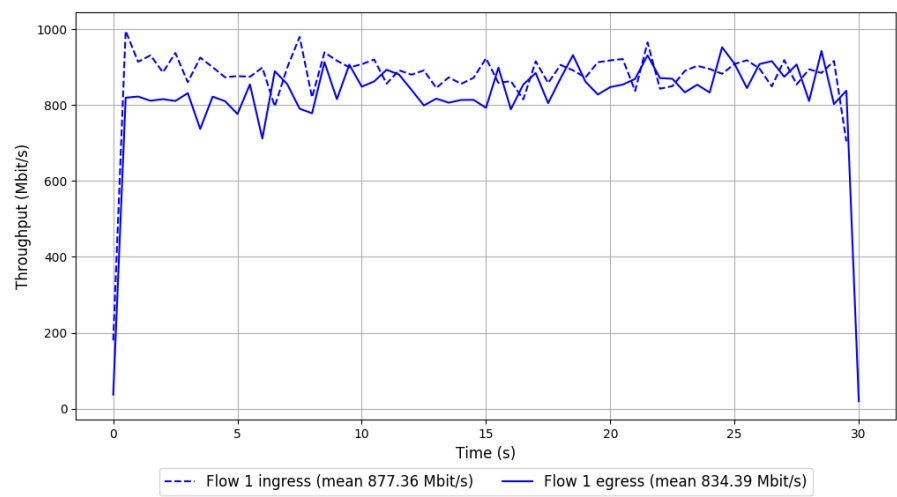
-- Flow 1:

Average throughput: 834.39 Mbit/s

95th percentile per-packet one-way delay: 303.133 ms

Loss rate: 4.90%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-02-28 03:12:15

End at: 2018-02-28 03:12:46

Below is generated by plot.py at 2018-02-28 08:21:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 782.91 Mbit/s

95th percentile per-packet one-way delay: 314.007 ms

Loss rate: 9.08%

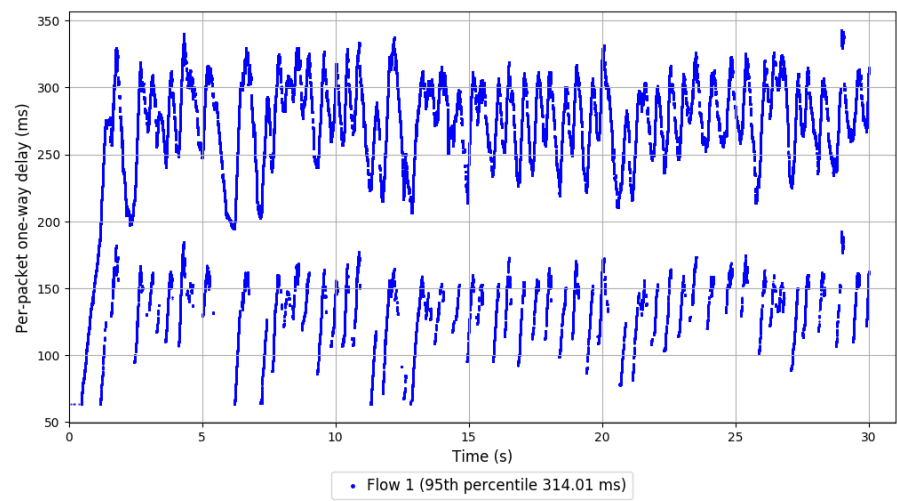
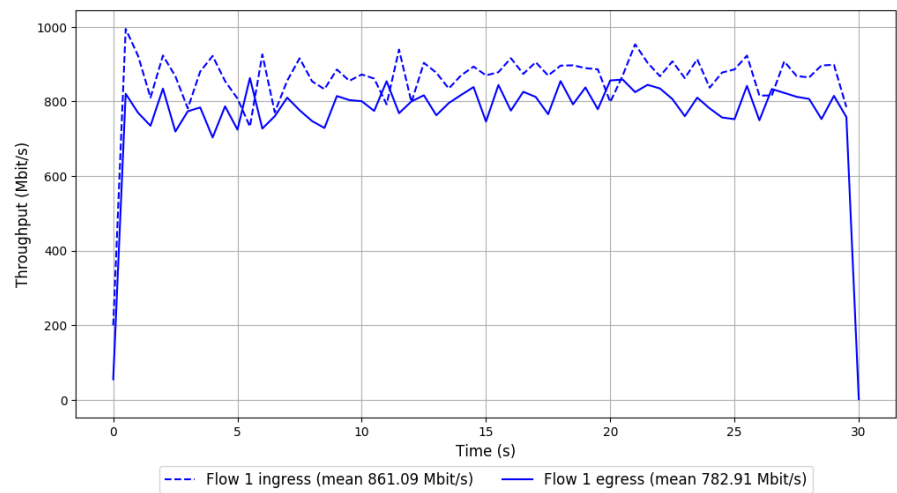
-- Flow 1:

Average throughput: 782.91 Mbit/s

95th percentile per-packet one-way delay: 314.007 ms

Loss rate: 9.08%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-02-28 03:26:45

End at: 2018-02-28 03:27:15

Below is generated by plot.py at 2018-02-28 08:24:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 835.60 Mbit/s

95th percentile per-packet one-way delay: 303.022 ms

Loss rate: 1.79%

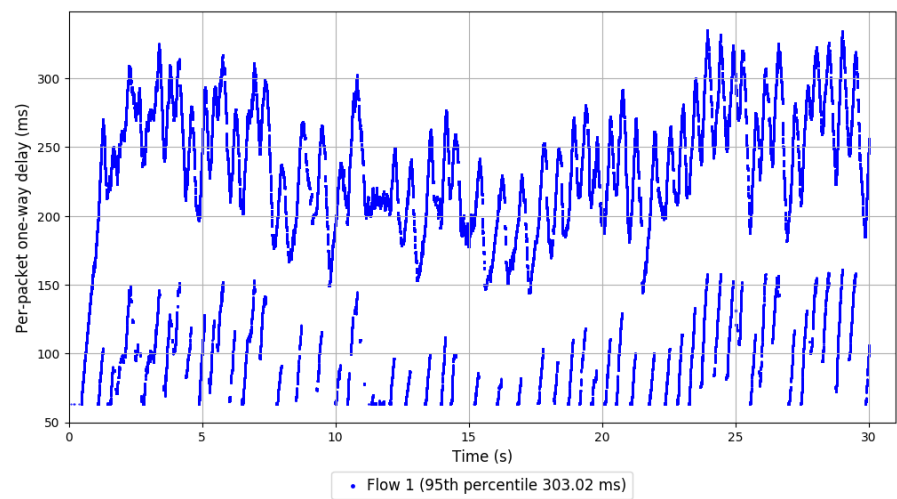
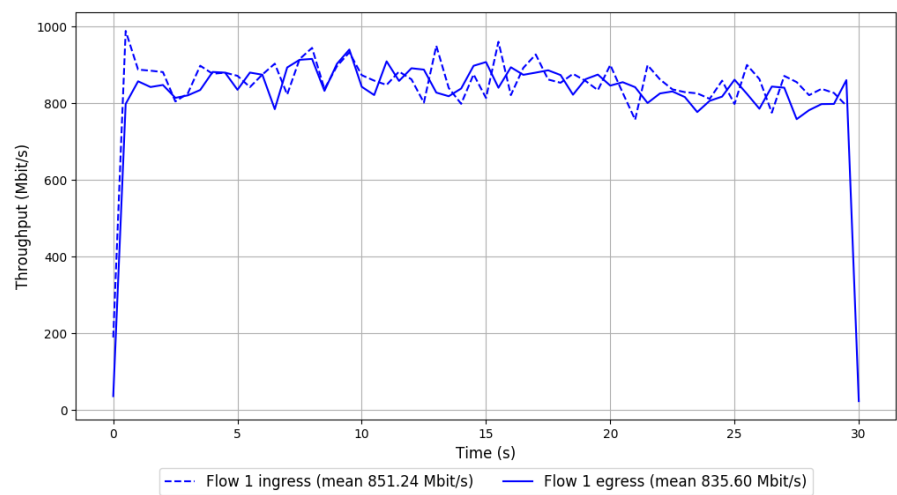
-- Flow 1:

Average throughput: 835.60 Mbit/s

95th percentile per-packet one-way delay: 303.022 ms

Loss rate: 1.79%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-02-28 03:41:11

End at: 2018-02-28 03:41:41

Below is generated by plot.py at 2018-02-28 08:24:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 853.88 Mbit/s

95th percentile per-packet one-way delay: 303.667 ms

Loss rate: 2.82%

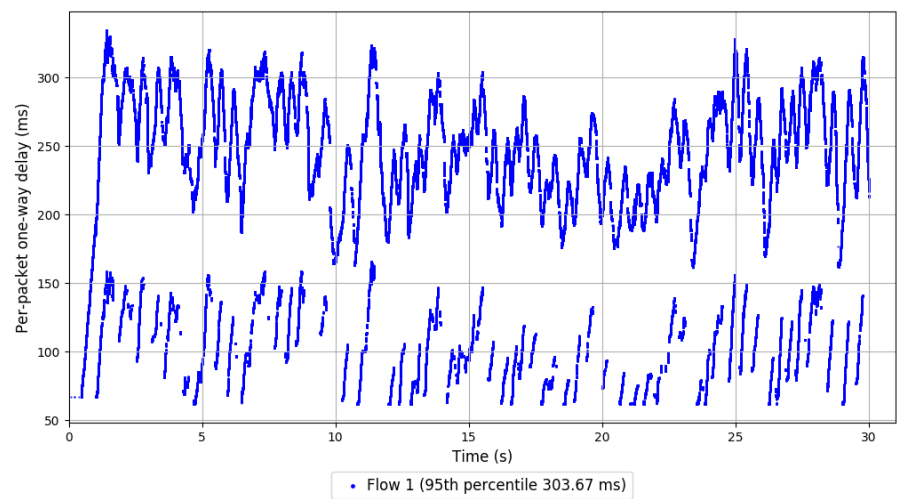
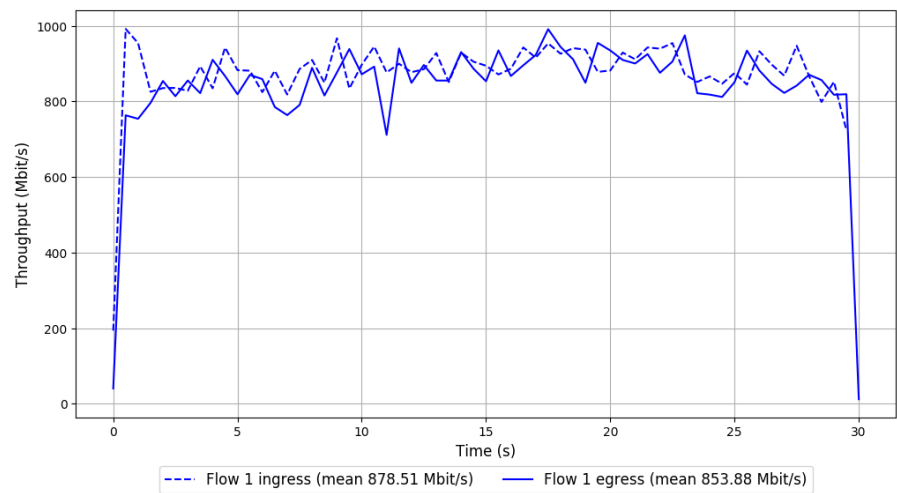
-- Flow 1:

Average throughput: 853.88 Mbit/s

95th percentile per-packet one-way delay: 303.667 ms

Loss rate: 2.82%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-02-28 03:55:38

End at: 2018-02-28 03:56:08

Below is generated by plot.py at 2018-02-28 08:24:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 833.32 Mbit/s

95th percentile per-packet one-way delay: 306.739 ms

Loss rate: 2.70%

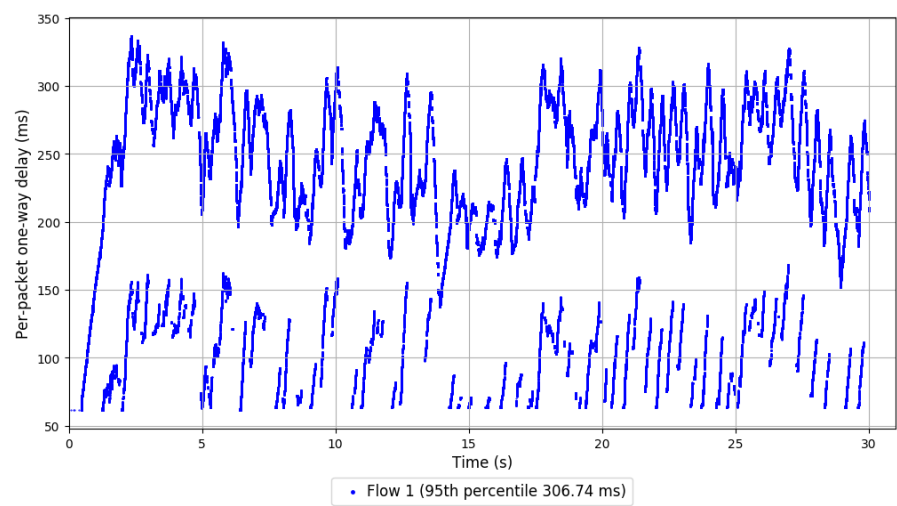
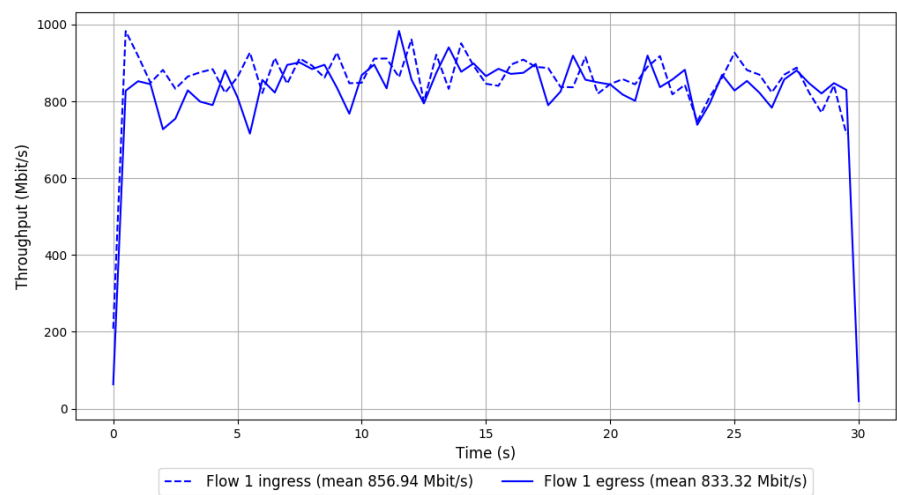
-- Flow 1:

Average throughput: 833.32 Mbit/s

95th percentile per-packet one-way delay: 306.739 ms

Loss rate: 2.70%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-02-28 04:10:13

End at: 2018-02-28 04:10:43

Below is generated by plot.py at 2018-02-28 08:24:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 803.88 Mbit/s

95th percentile per-packet one-way delay: 311.945 ms

Loss rate: 4.06%

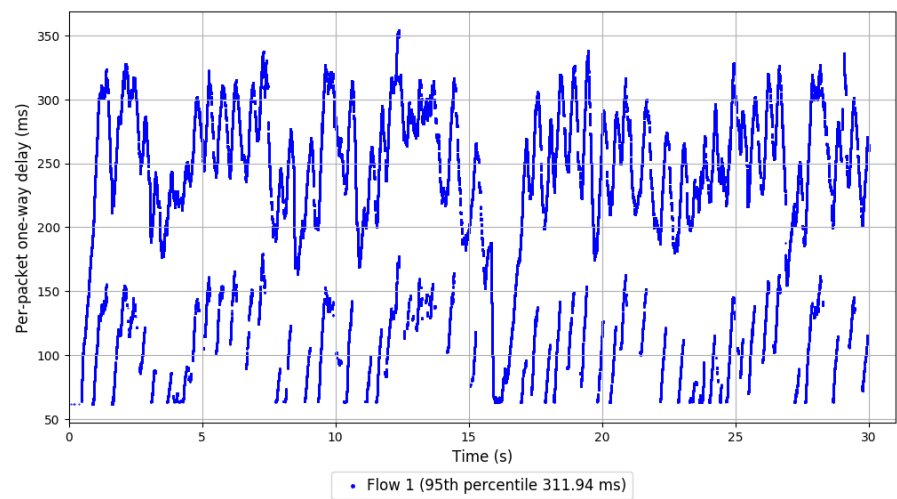
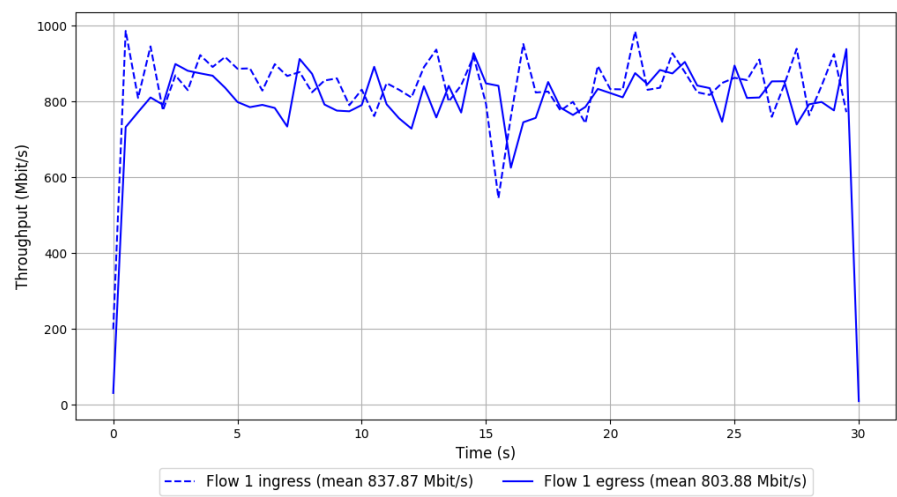
-- Flow 1:

Average throughput: 803.88 Mbit/s

95th percentile per-packet one-way delay: 311.945 ms

Loss rate: 4.06%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-02-28 04:24:52

End at: 2018-02-28 04:25:22

Below is generated by plot.py at 2018-02-28 08:45:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 856.86 Mbit/s

95th percentile per-packet one-way delay: 293.371 ms

Loss rate: 2.48%

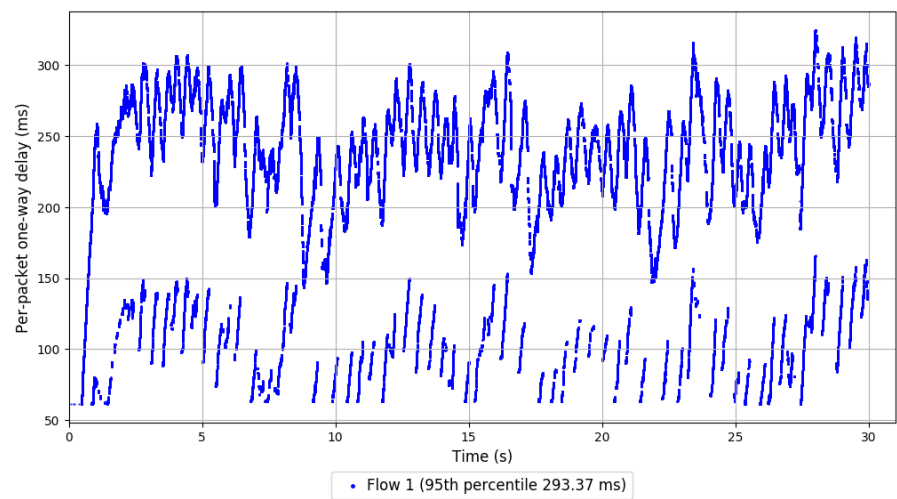
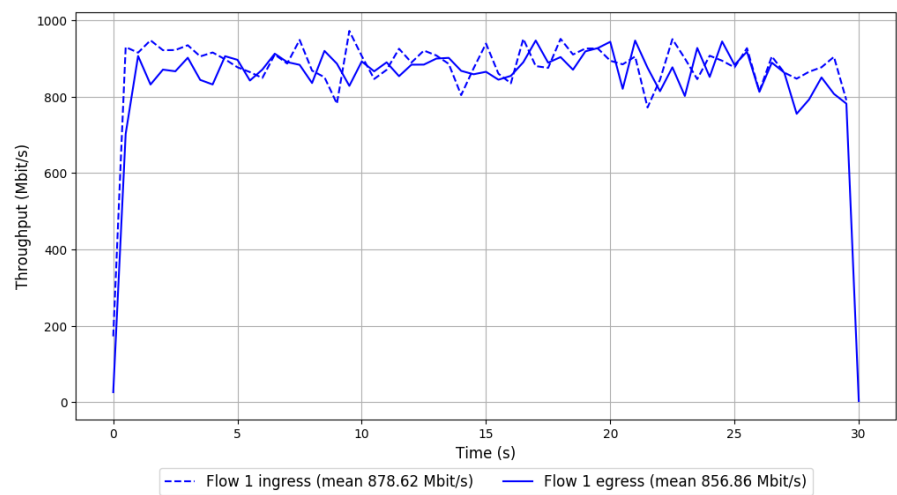
-- Flow 1:

Average throughput: 856.86 Mbit/s

95th percentile per-packet one-way delay: 293.371 ms

Loss rate: 2.48%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-02-28 04:39:22

End at: 2018-02-28 04:39:52

Below is generated by plot.py at 2018-02-28 08:45:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 762.79 Mbit/s

95th percentile per-packet one-way delay: 322.125 ms

Loss rate: 6.74%

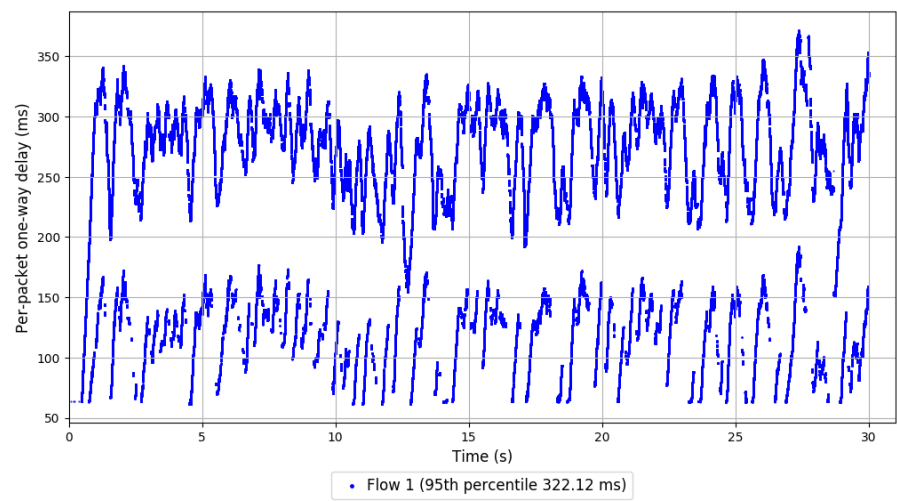
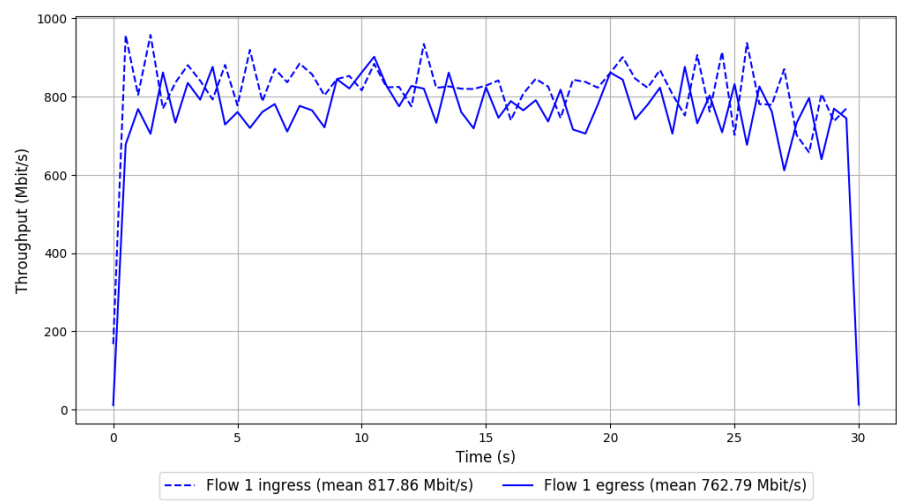
-- Flow 1:

Average throughput: 762.79 Mbit/s

95th percentile per-packet one-way delay: 322.125 ms

Loss rate: 6.74%

Run 10: Report of FillP — Data Link

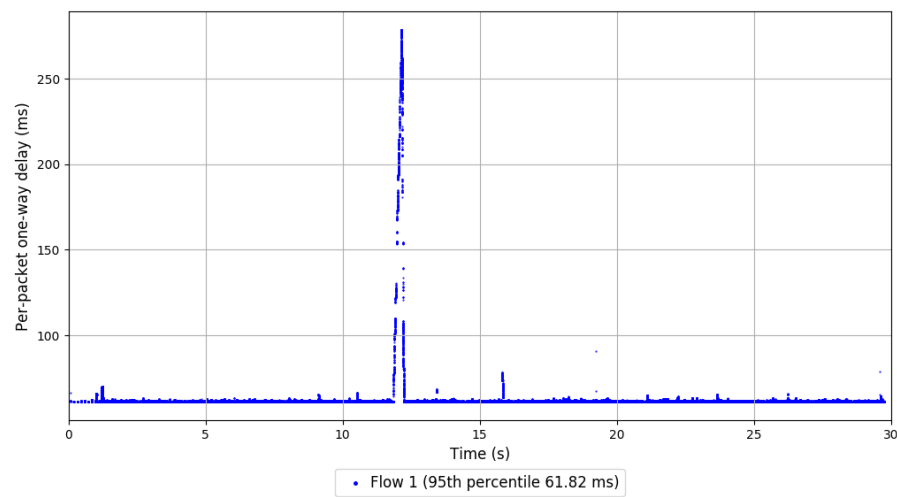
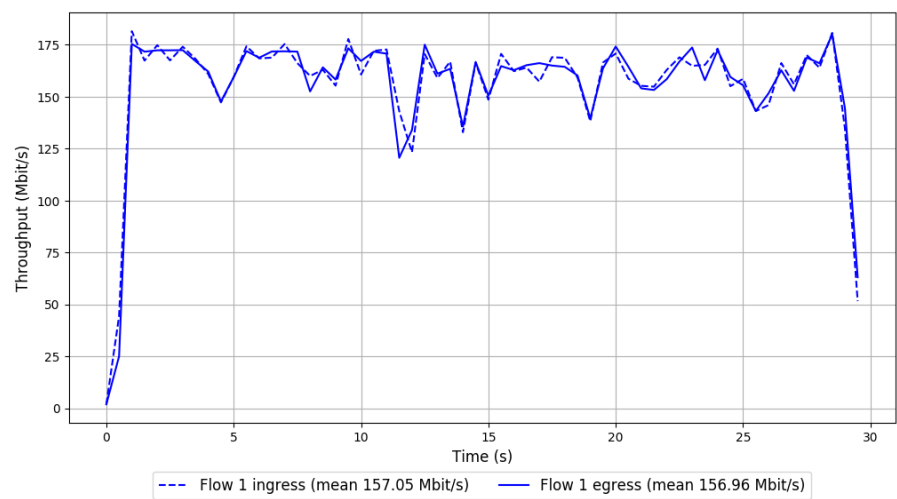


```
Run 1: Statistics of Indigo-1-32

Start at: 2018-02-28 02:36:39
End at: 2018-02-28 02:37:09

# Below is generated by plot.py at 2018-02-28 08:45:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 156.96 Mbit/s
95th percentile per-packet one-way delay: 61.823 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 156.96 Mbit/s
95th percentile per-packet one-way delay: 61.823 ms
Loss rate: 0.07%
```

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

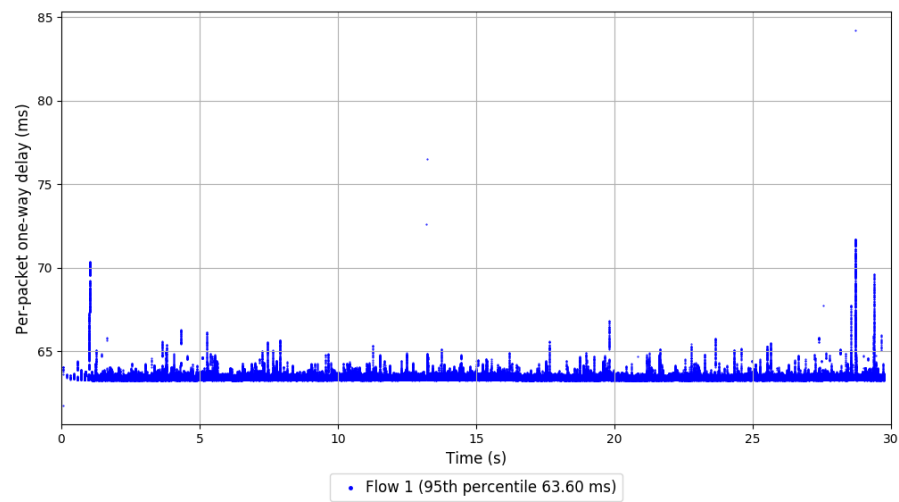
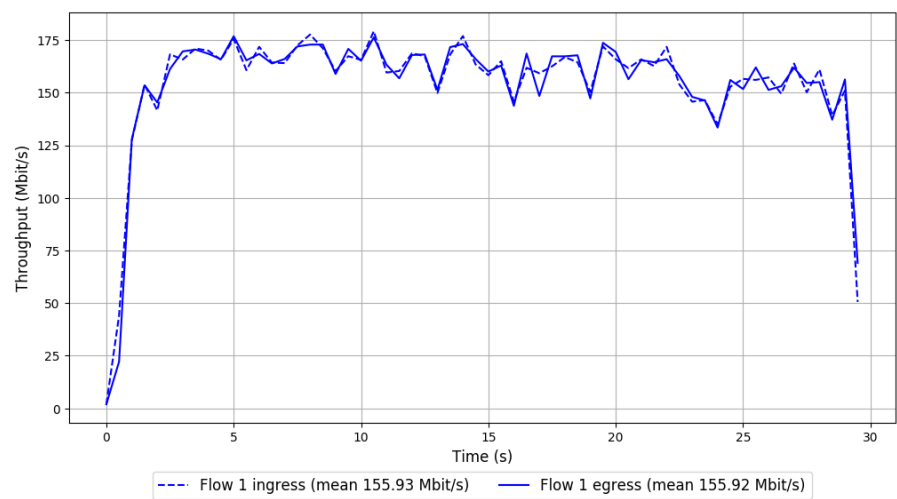


```
Run 2: Statistics of Indigo-1-32

Start at: 2018-02-28 02:51:16
End at: 2018-02-28 02:51:46

# Below is generated by plot.py at 2018-02-28 08:45:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 155.92 Mbit/s
95th percentile per-packet one-way delay: 63.603 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 155.92 Mbit/s
95th percentile per-packet one-way delay: 63.603 ms
Loss rate: 0.00%
```

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



Run 3: Statistics of Indigo-1-32

Start at: 2018-02-28 03:05:44

End at: 2018-02-28 03:06:14

Below is generated by plot.py at 2018-02-28 08:45:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 169.86 Mbit/s

95th percentile per-packet one-way delay: 63.615 ms

Loss rate: 0.00%

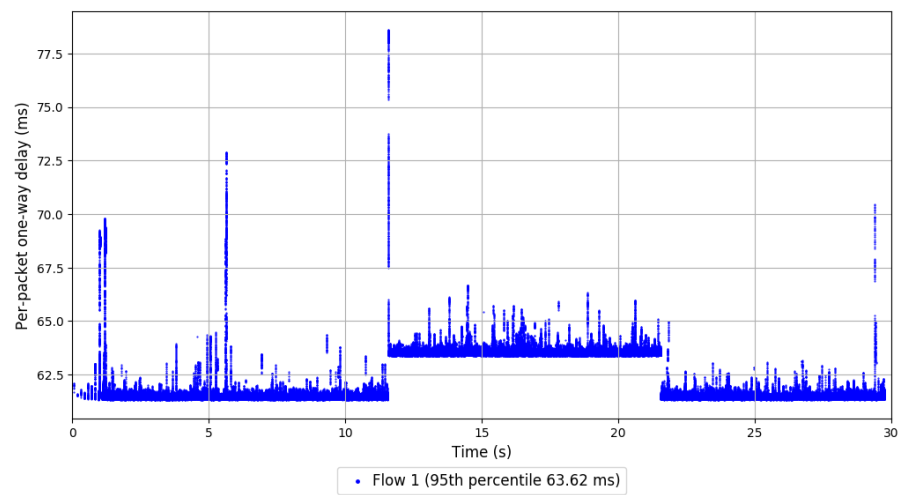
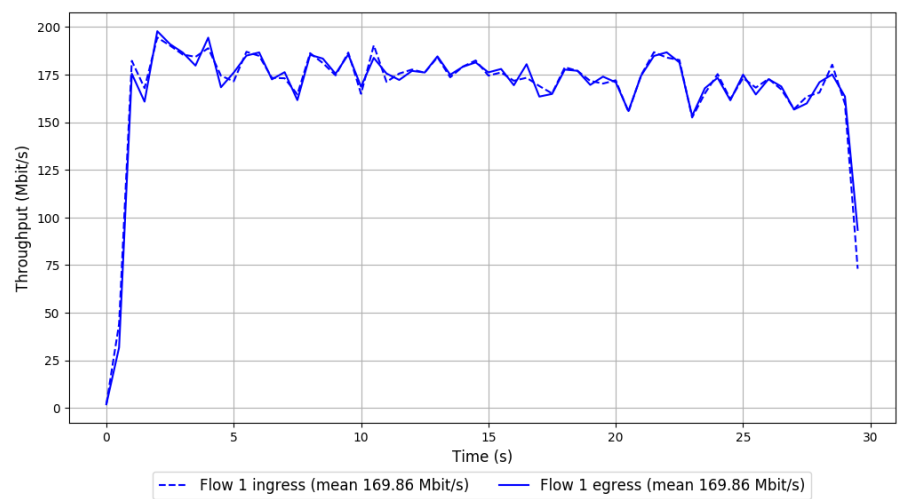
-- Flow 1:

Average throughput: 169.86 Mbit/s

95th percentile per-packet one-way delay: 63.615 ms

Loss rate: 0.00%

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



Run 4: Statistics of Indigo-1-32

Start at: 2018-02-28 03:20:13

End at: 2018-02-28 03:20:43

Below is generated by plot.py at 2018-02-28 08:45:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 157.18 Mbit/s

95th percentile per-packet one-way delay: 63.712 ms

Loss rate: 0.00%

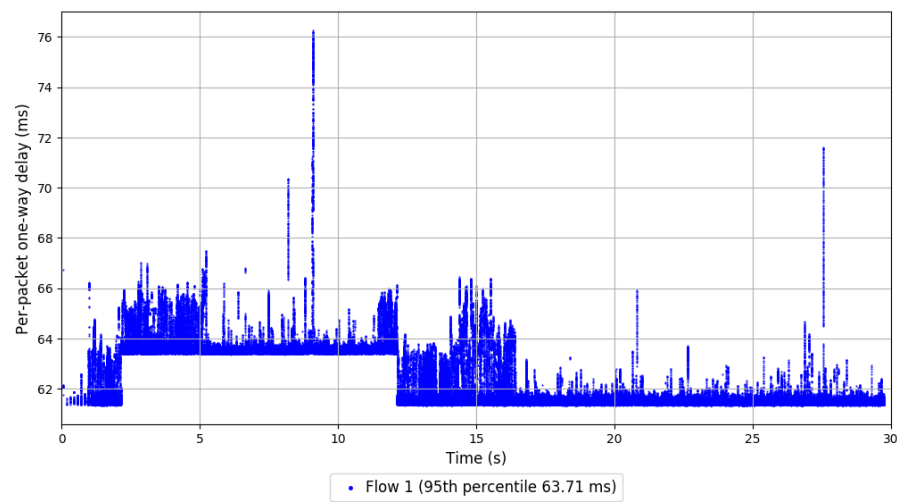
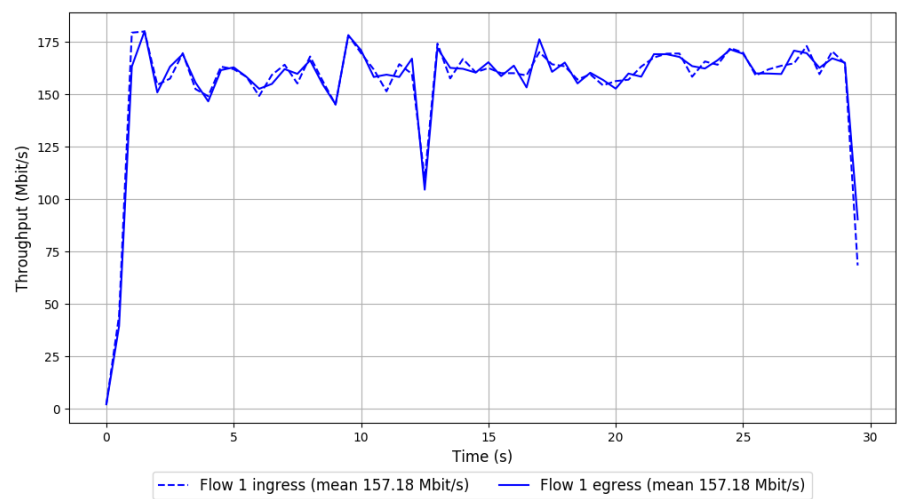
-- Flow 1:

Average throughput: 157.18 Mbit/s

95th percentile per-packet one-way delay: 63.712 ms

Loss rate: 0.00%

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



Run 5: Statistics of Indigo-1-32

Start at: 2018-02-28 03:34:40

End at: 2018-02-28 03:35:10

Below is generated by plot.py at 2018-02-28 08:45:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 151.50 Mbit/s

95th percentile per-packet one-way delay: 61.795 ms

Loss rate: 0.00%

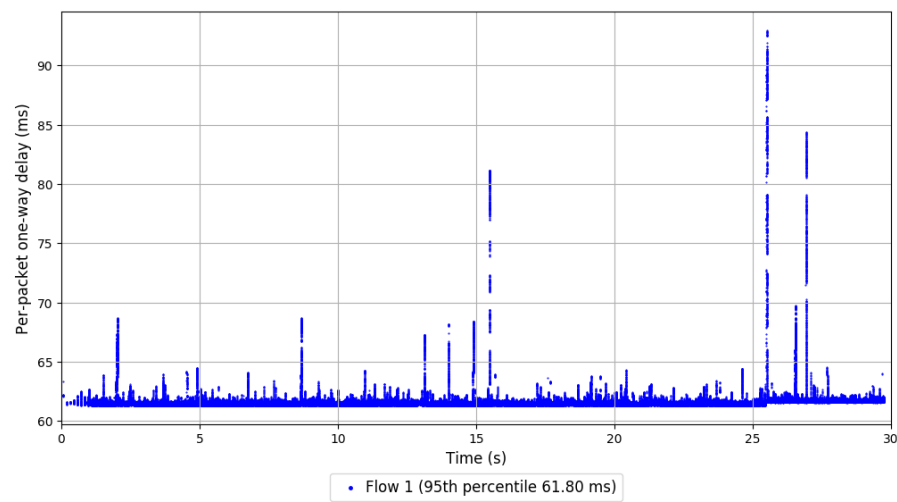
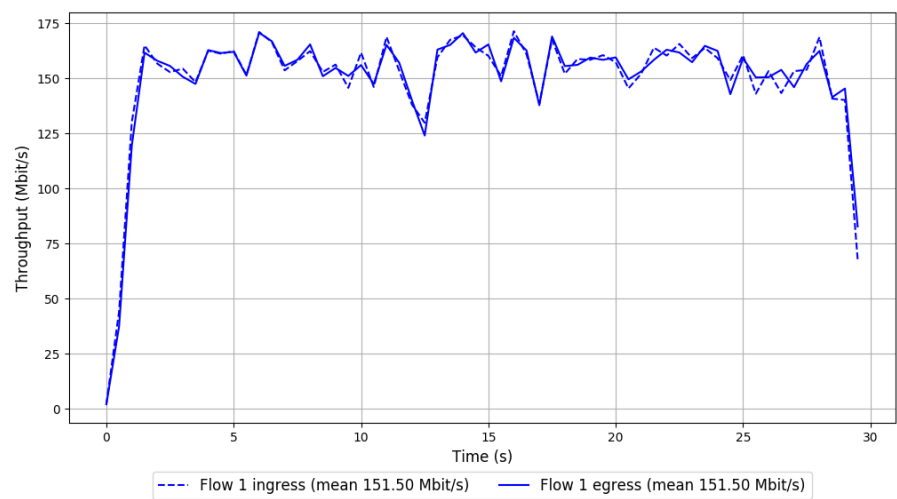
-- Flow 1:

Average throughput: 151.50 Mbit/s

95th percentile per-packet one-way delay: 61.795 ms

Loss rate: 0.00%

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



Run 6: Statistics of Indigo-1-32

Start at: 2018-02-28 03:49:06

End at: 2018-02-28 03:49:36

Below is generated by plot.py at 2018-02-28 08:45:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 152.02 Mbit/s

95th percentile per-packet one-way delay: 61.827 ms

Loss rate: 0.00%

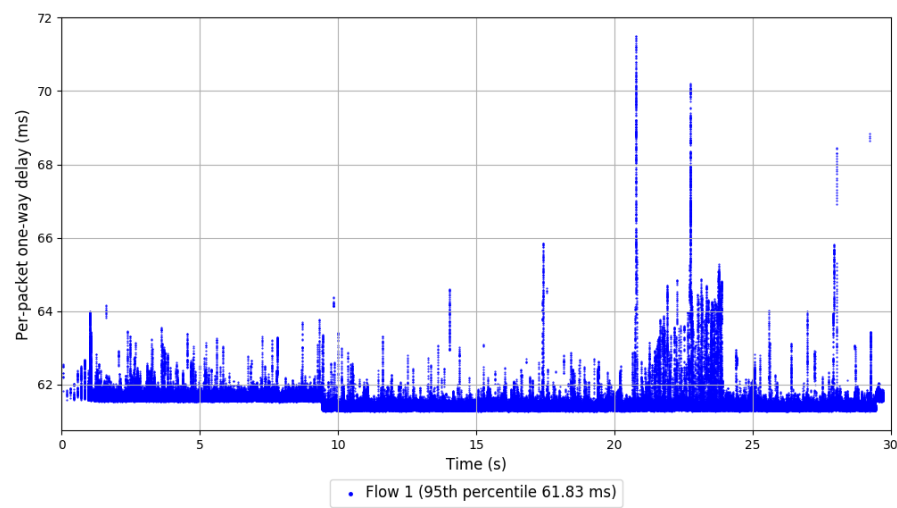
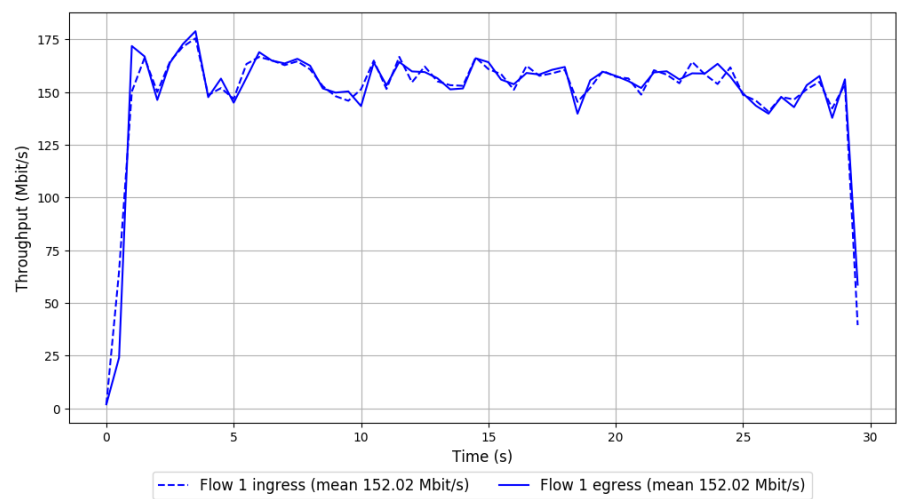
-- Flow 1:

Average throughput: 152.02 Mbit/s

95th percentile per-packet one-way delay: 61.827 ms

Loss rate: 0.00%

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



Run 7: Statistics of Indigo-1-32

Start at: 2018-02-28 04:03:41

End at: 2018-02-28 04:04:11

Below is generated by plot.py at 2018-02-28 08:45:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 158.44 Mbit/s

95th percentile per-packet one-way delay: 61.810 ms

Loss rate: 0.00%

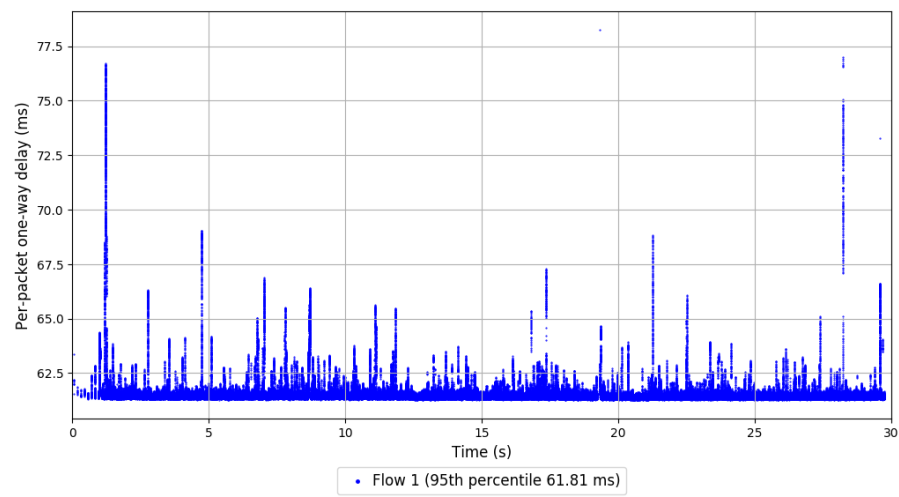
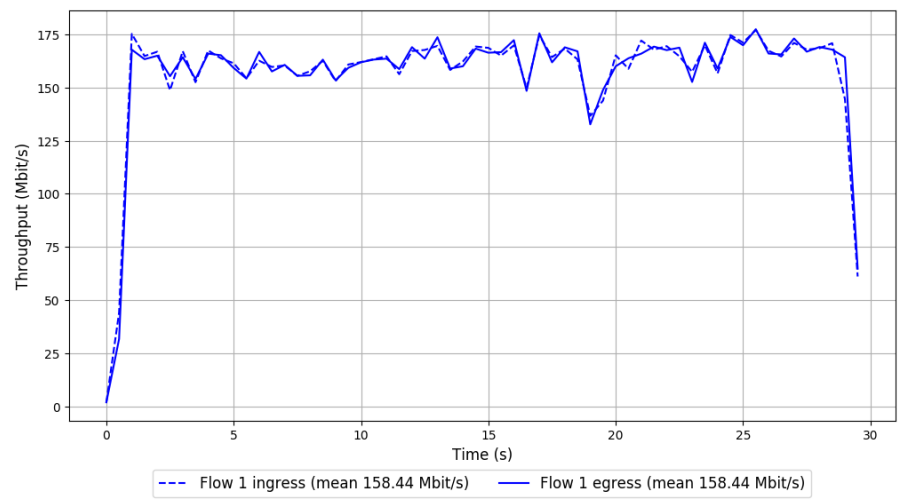
-- Flow 1:

Average throughput: 158.44 Mbit/s

95th percentile per-packet one-way delay: 61.810 ms

Loss rate: 0.00%

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



Run 8: Statistics of Indigo-1-32

Start at: 2018-02-28 04:18:17

End at: 2018-02-28 04:18:47

Below is generated by plot.py at 2018-02-28 08:45:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 169.80 Mbit/s

95th percentile per-packet one-way delay: 63.363 ms

Loss rate: 0.00%

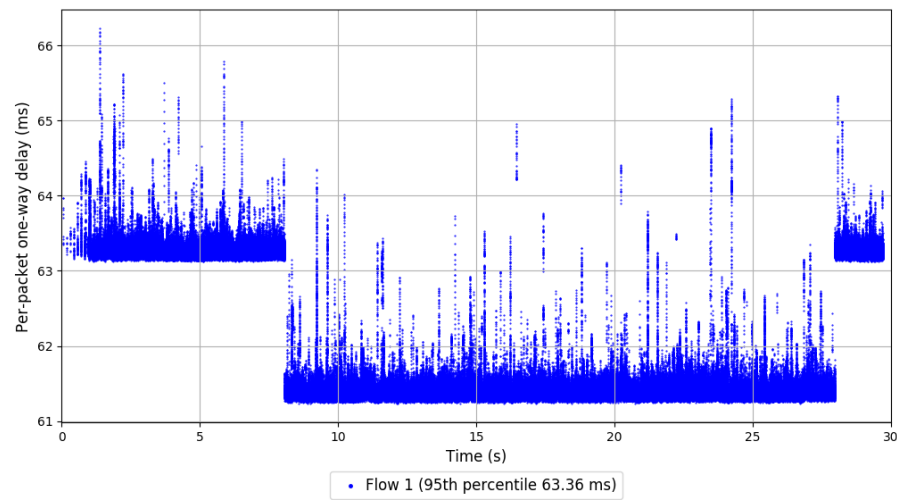
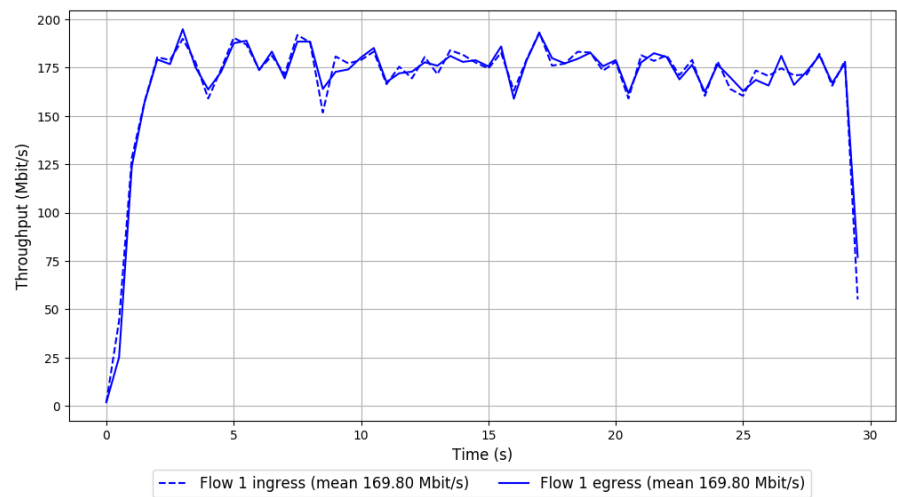
-- Flow 1:

Average throughput: 169.80 Mbit/s

95th percentile per-packet one-way delay: 63.363 ms

Loss rate: 0.00%

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



Run 9: Statistics of Indigo-1-32

Start at: 2018-02-28 04:32:53

End at: 2018-02-28 04:33:23

Below is generated by plot.py at 2018-02-28 08:45:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 150.63 Mbit/s

95th percentile per-packet one-way delay: 63.521 ms

Loss rate: 0.00%

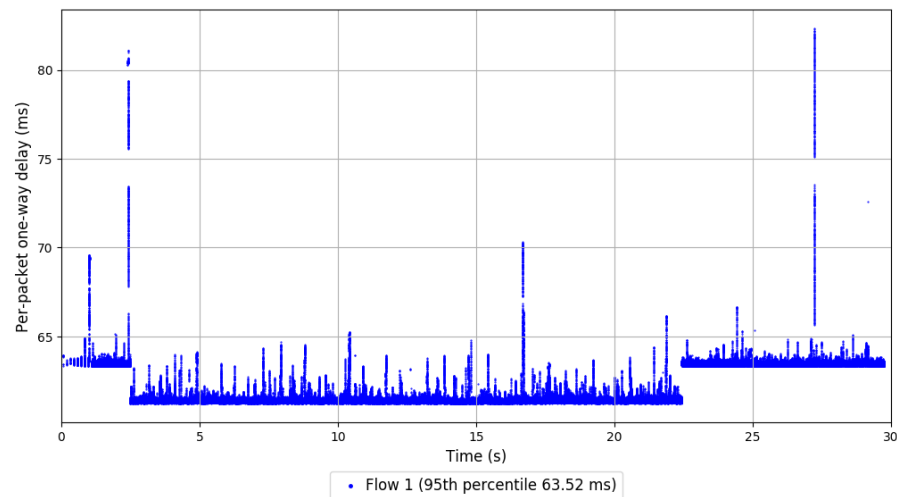
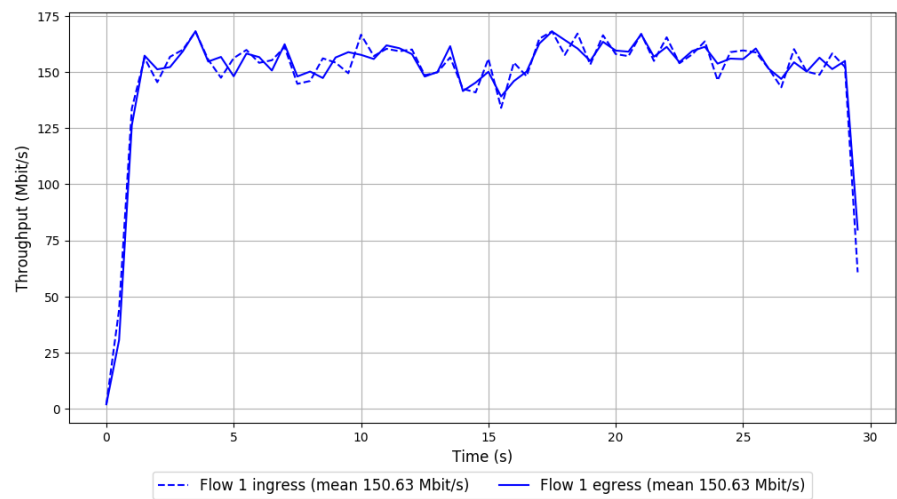
-- Flow 1:

Average throughput: 150.63 Mbit/s

95th percentile per-packet one-way delay: 63.521 ms

Loss rate: 0.00%

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



Run 10: Statistics of Indigo-1-32

Start at: 2018-02-28 04:47:25

End at: 2018-02-28 04:47:55

Below is generated by plot.py at 2018-02-28 08:45:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 157.28 Mbit/s

95th percentile per-packet one-way delay: 63.475 ms

Loss rate: 0.00%

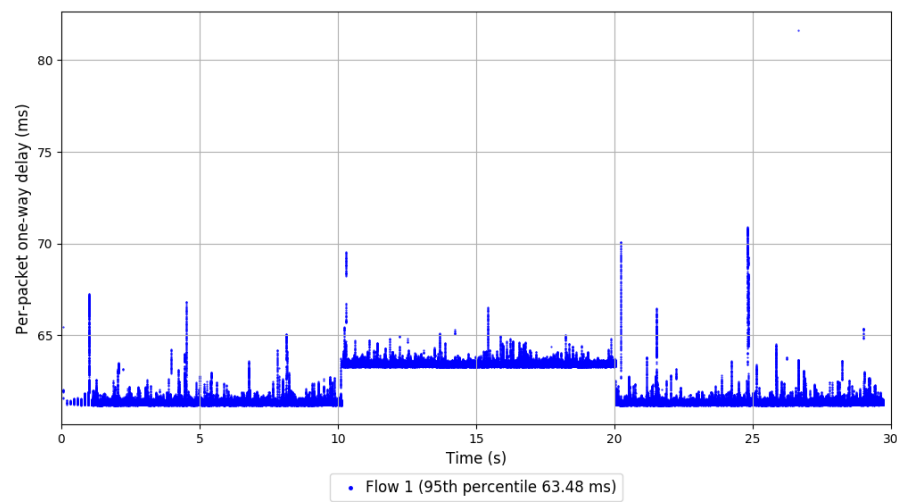
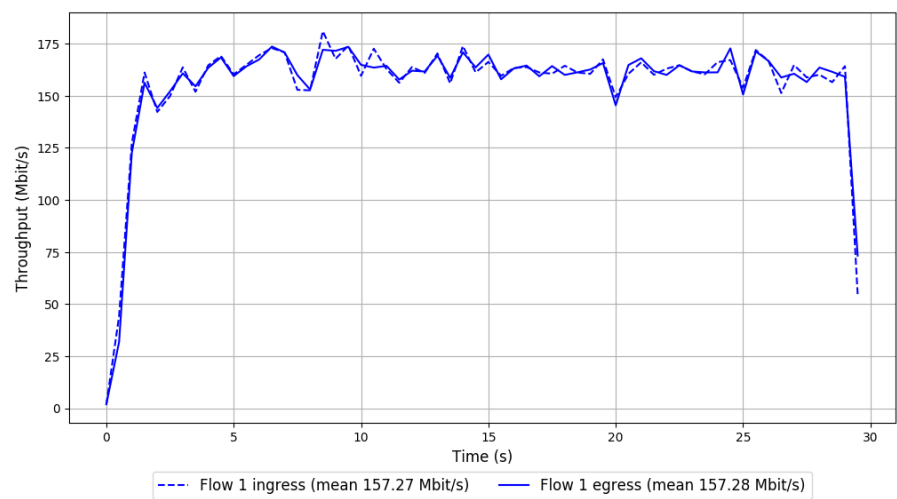
-- Flow 1:

Average throughput: 157.28 Mbit/s

95th percentile per-packet one-way delay: 63.475 ms

Loss rate: 0.00%

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



Run 1: Statistics of Vivace-latency

Start at: 2018-02-28 02:29:52

End at: 2018-02-28 02:30:22

Below is generated by plot.py at 2018-02-28 08:45:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 226.94 Mbit/s

95th percentile per-packet one-way delay: 63.489 ms

Loss rate: 0.00%

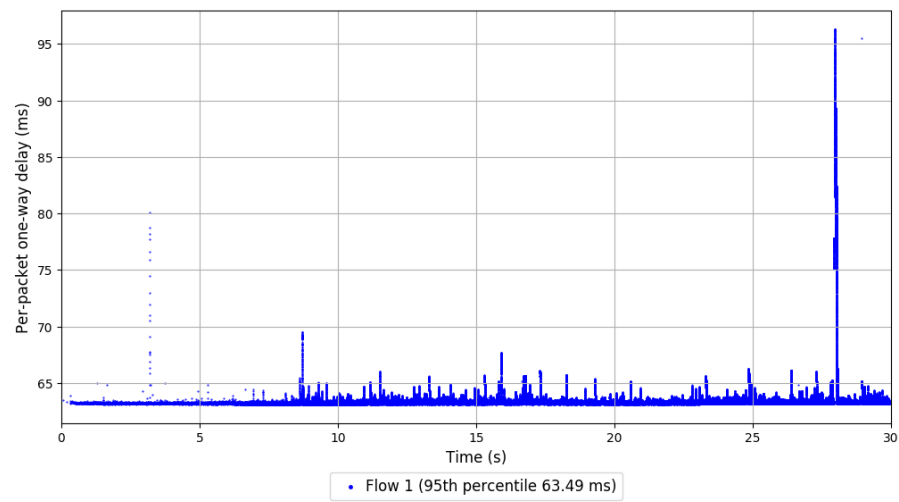
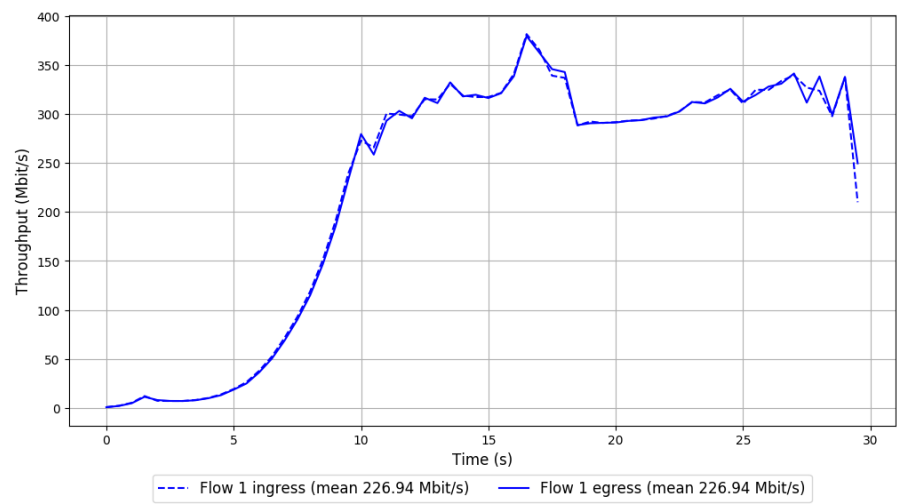
-- Flow 1:

Average throughput: 226.94 Mbit/s

95th percentile per-packet one-way delay: 63.489 ms

Loss rate: 0.00%

Run 1: Report of Vivace-latency — Data Link



Run 2: Statistics of Vivace-latency

Start at: 2018-02-28 02:44:28

End at: 2018-02-28 02:44:58

Below is generated by plot.py at 2018-02-28 08:45:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 185.85 Mbit/s

95th percentile per-packet one-way delay: 63.562 ms

Loss rate: 0.01%

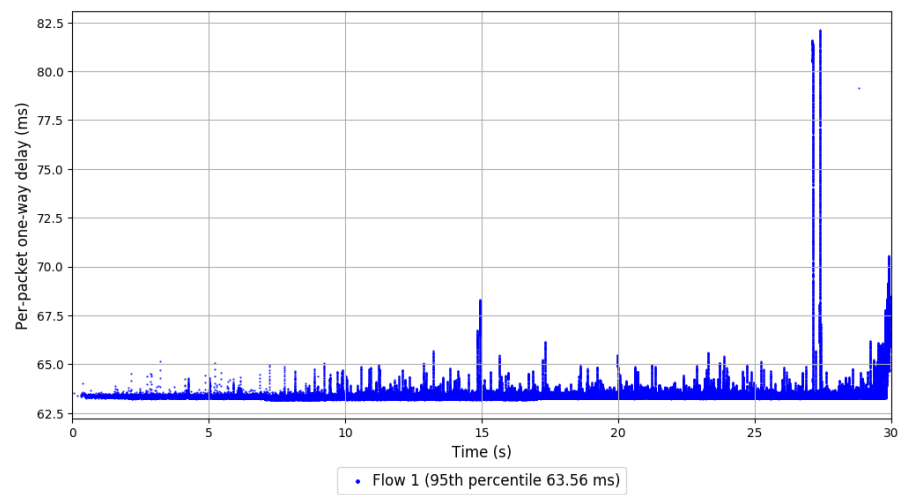
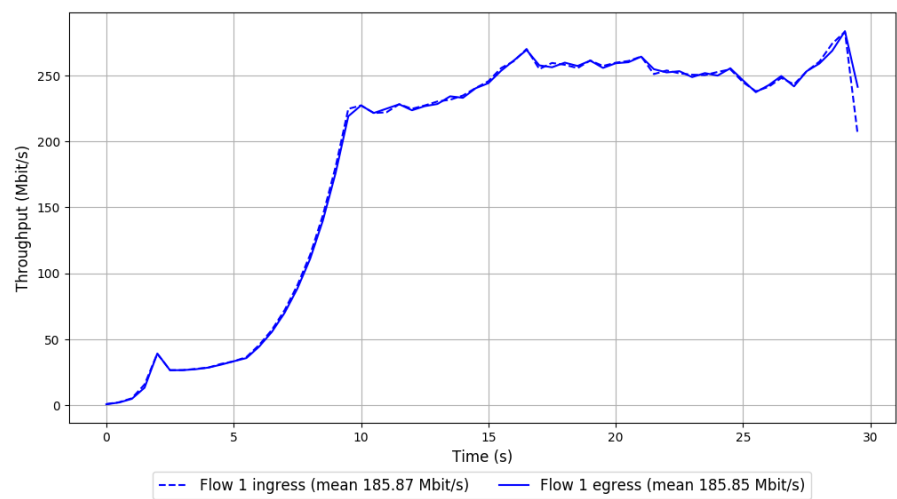
-- Flow 1:

Average throughput: 185.85 Mbit/s

95th percentile per-packet one-way delay: 63.562 ms

Loss rate: 0.01%

Run 2: Report of Vivace-latency — Data Link



Run 3: Statistics of Vivace-latency

Start at: 2018-02-28 02:58:57

End at: 2018-02-28 02:59:27

Below is generated by plot.py at 2018-02-28 08:45:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 259.12 Mbit/s

95th percentile per-packet one-way delay: 63.678 ms

Loss rate: 0.00%

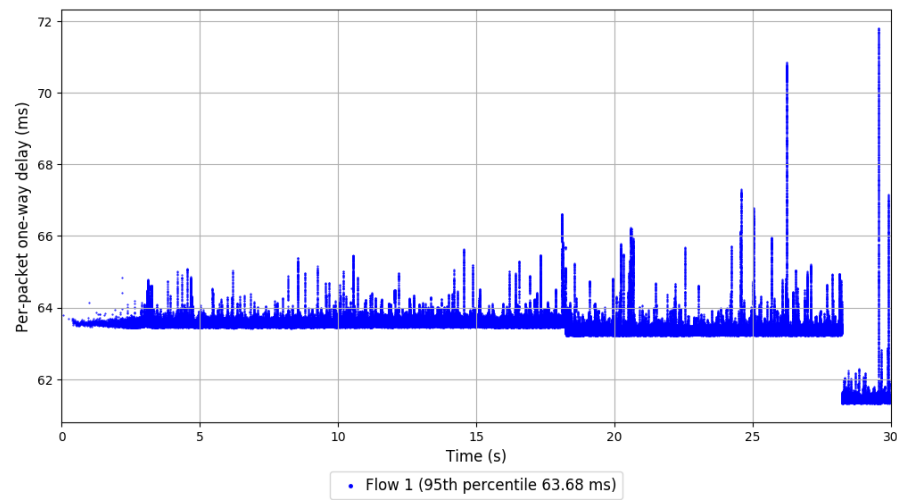
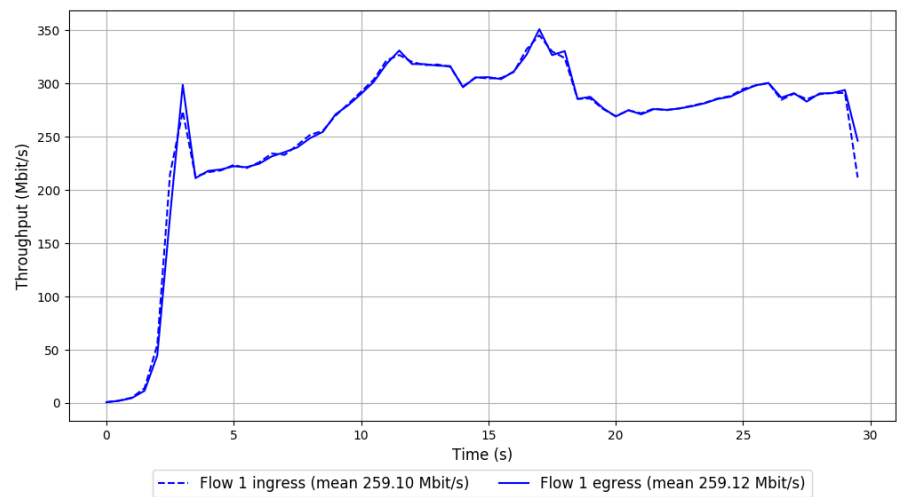
-- Flow 1:

Average throughput: 259.12 Mbit/s

95th percentile per-packet one-way delay: 63.678 ms

Loss rate: 0.00%

Run 3: Report of Vivace-latency — Data Link



Run 4: Statistics of Vivace-latency

Start at: 2018-02-28 03:13:29

End at: 2018-02-28 03:13:59

Below is generated by plot.py at 2018-02-28 08:45:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 230.97 Mbit/s

95th percentile per-packet one-way delay: 66.798 ms

Loss rate: 0.03%

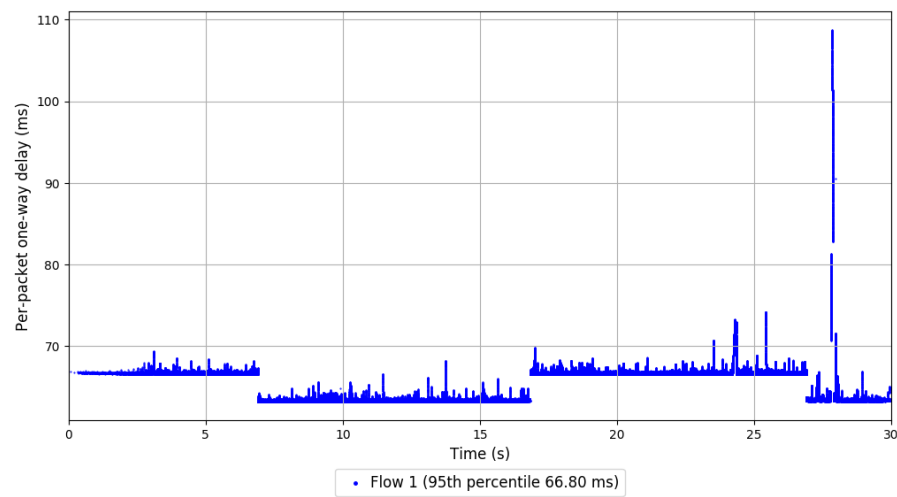
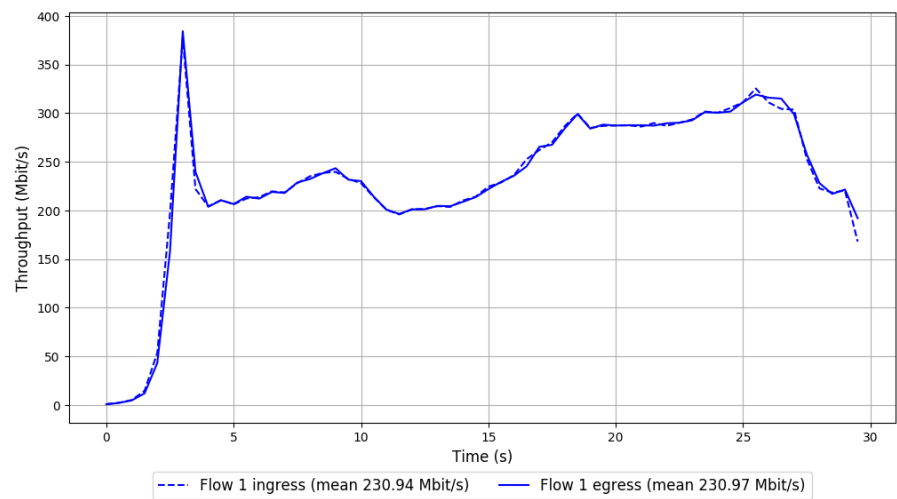
-- Flow 1:

Average throughput: 230.97 Mbit/s

95th percentile per-packet one-way delay: 66.798 ms

Loss rate: 0.03%

Run 4: Report of Vivace-latency — Data Link



Run 5: Statistics of Vivace-latency

Start at: 2018-02-28 03:28:00

End at: 2018-02-28 03:28:30

Below is generated by plot.py at 2018-02-28 08:45:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 249.48 Mbit/s

95th percentile per-packet one-way delay: 63.654 ms

Loss rate: 0.01%

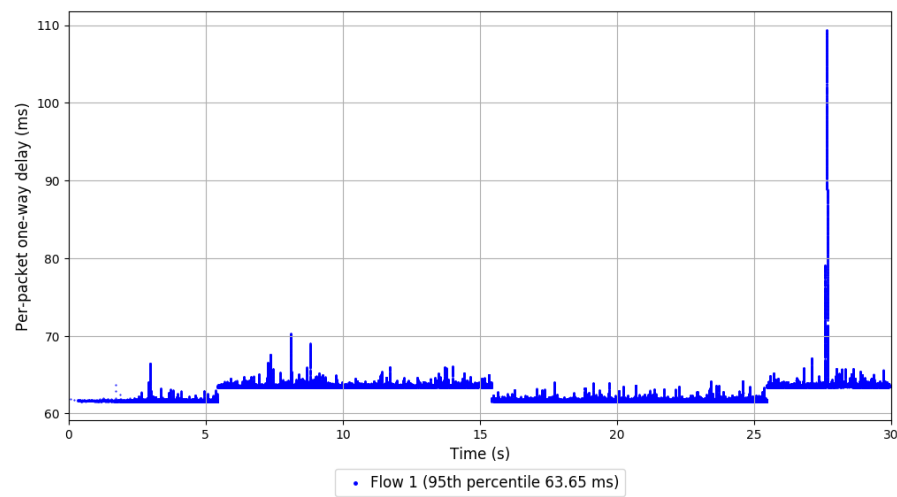
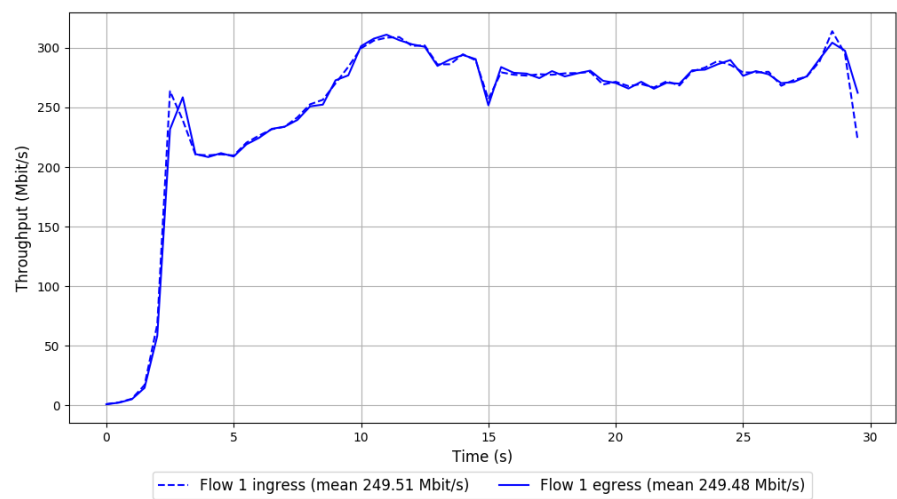
-- Flow 1:

Average throughput: 249.48 Mbit/s

95th percentile per-packet one-way delay: 63.654 ms

Loss rate: 0.01%

Run 5: Report of Vivace-latency — Data Link



Run 6: Statistics of Vivace-latency

Start at: 2018-02-28 03:42:27

End at: 2018-02-28 03:42:57

Below is generated by plot.py at 2018-02-28 08:45:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 227.28 Mbit/s

95th percentile per-packet one-way delay: 62.011 ms

Loss rate: 0.00%

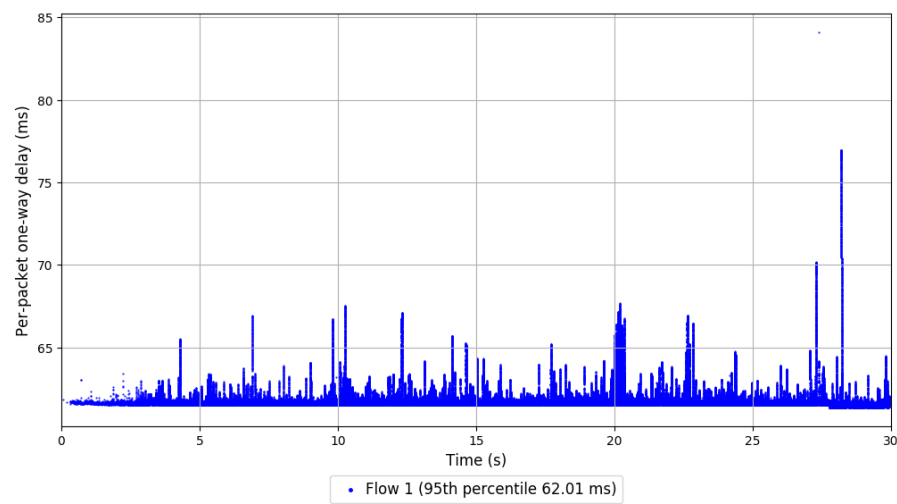
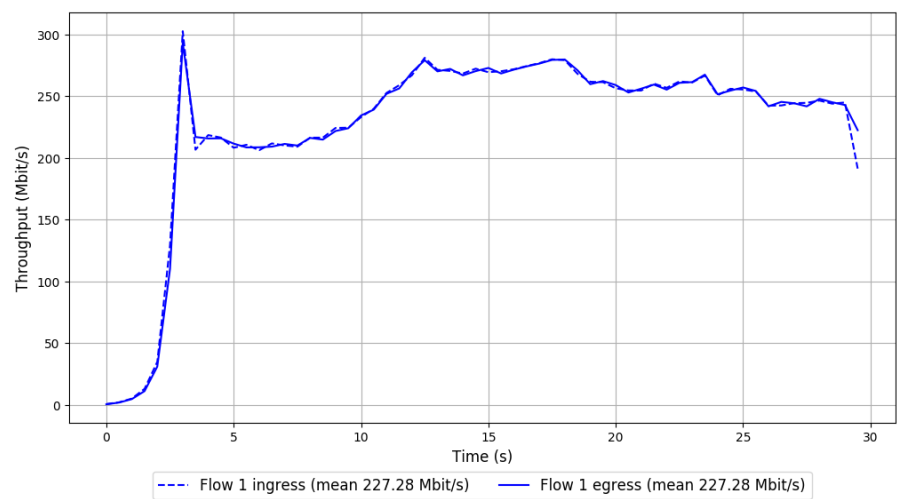
-- Flow 1:

Average throughput: 227.28 Mbit/s

95th percentile per-packet one-way delay: 62.011 ms

Loss rate: 0.00%

Run 6: Report of Vivace-latency — Data Link



Run 7: Statistics of Vivace-latency

Start at: 2018-02-28 03:56:53

End at: 2018-02-28 03:57:23

Below is generated by plot.py at 2018-02-28 08:45:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 223.38 Mbit/s

95th percentile per-packet one-way delay: 63.946 ms

Loss rate: 0.00%

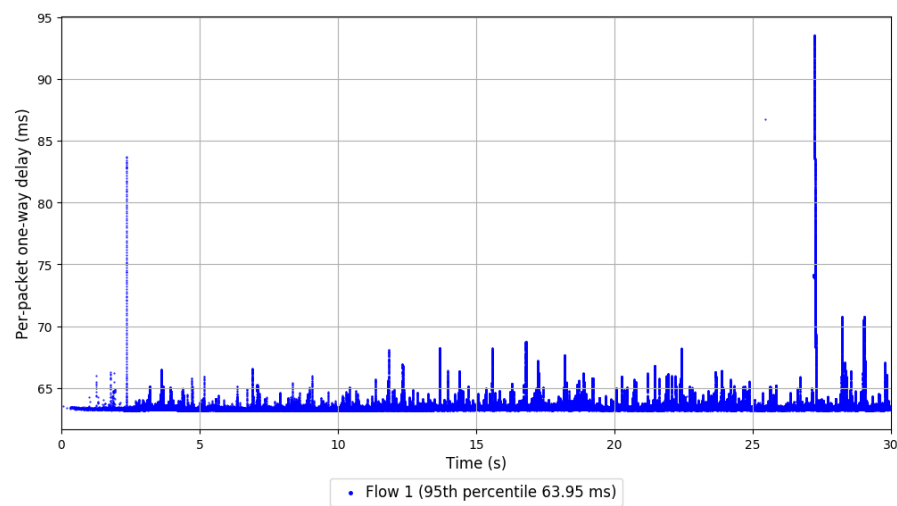
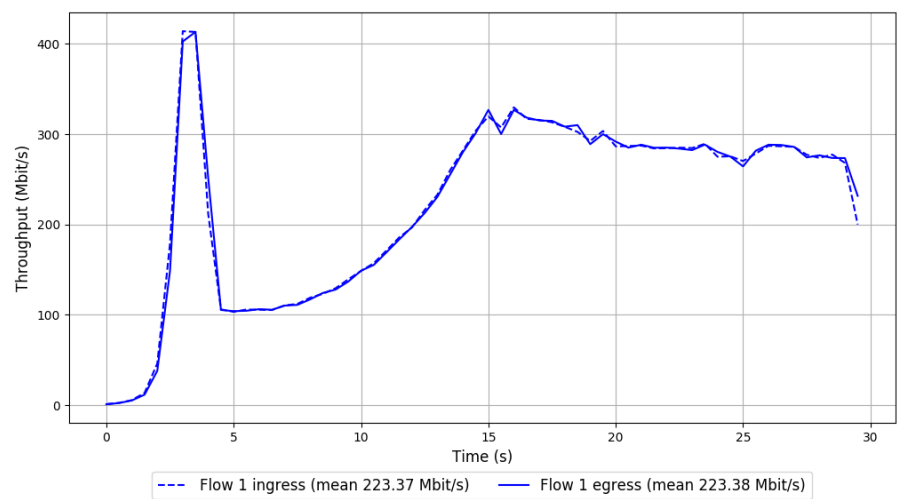
-- Flow 1:

Average throughput: 223.38 Mbit/s

95th percentile per-packet one-way delay: 63.946 ms

Loss rate: 0.00%

Run 7: Report of Vivace-latency — Data Link



Run 8: Statistics of Vivace-latency

Start at: 2018-02-28 04:11:26

End at: 2018-02-28 04:11:56

Below is generated by plot.py at 2018-02-28 08:45:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 230.29 Mbit/s

95th percentile per-packet one-way delay: 63.599 ms

Loss rate: 0.00%

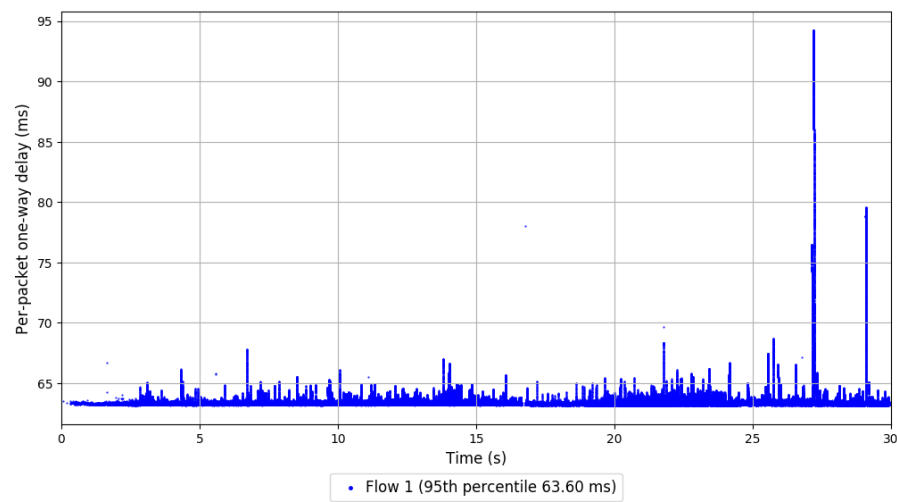
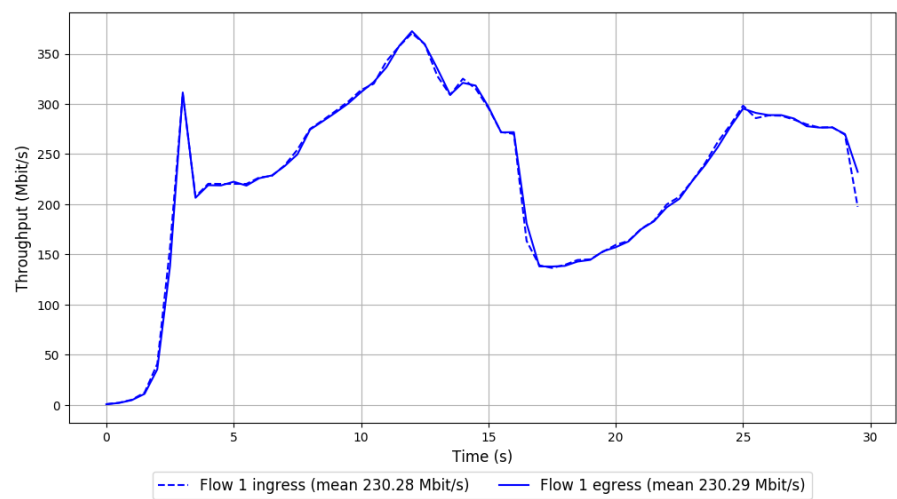
-- Flow 1:

Average throughput: 230.29 Mbit/s

95th percentile per-packet one-way delay: 63.599 ms

Loss rate: 0.00%

Run 8: Report of Vivace-latency — Data Link



Run 9: Statistics of Vivace-latency

Start at: 2018-02-28 04:26:08

End at: 2018-02-28 04:26:38

Below is generated by plot.py at 2018-02-28 08:45:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 218.45 Mbit/s

95th percentile per-packet one-way delay: 63.421 ms

Loss rate: 0.00%

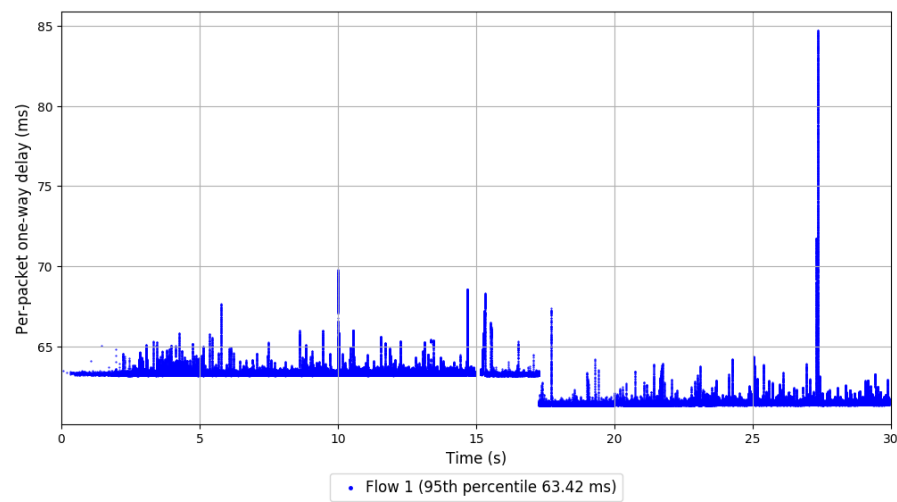
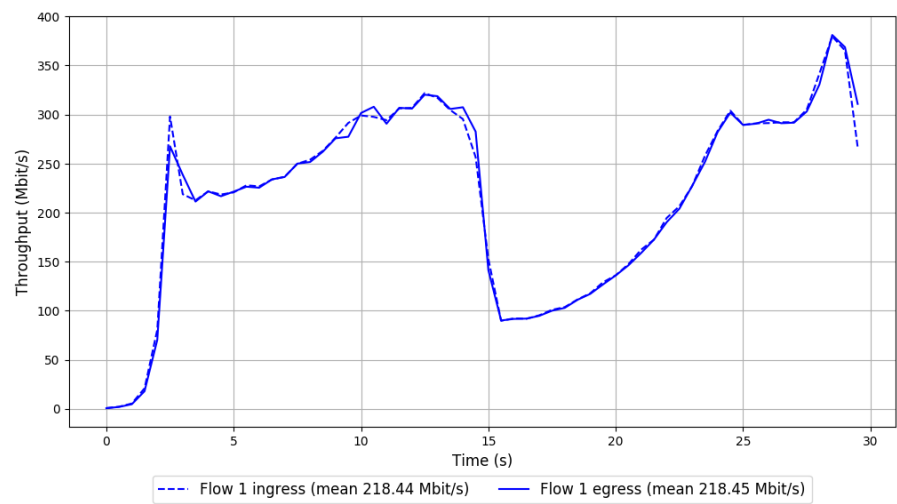
-- Flow 1:

Average throughput: 218.45 Mbit/s

95th percentile per-packet one-way delay: 63.421 ms

Loss rate: 0.00%

Run 9: Report of Vivace-latency — Data Link



Run 10: Statistics of Vivace-latency

Start at: 2018-02-28 04:40:40

End at: 2018-02-28 04:41:10

Below is generated by plot.py at 2018-02-28 08:45:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 238.99 Mbit/s

95th percentile per-packet one-way delay: 63.527 ms

Loss rate: 0.00%

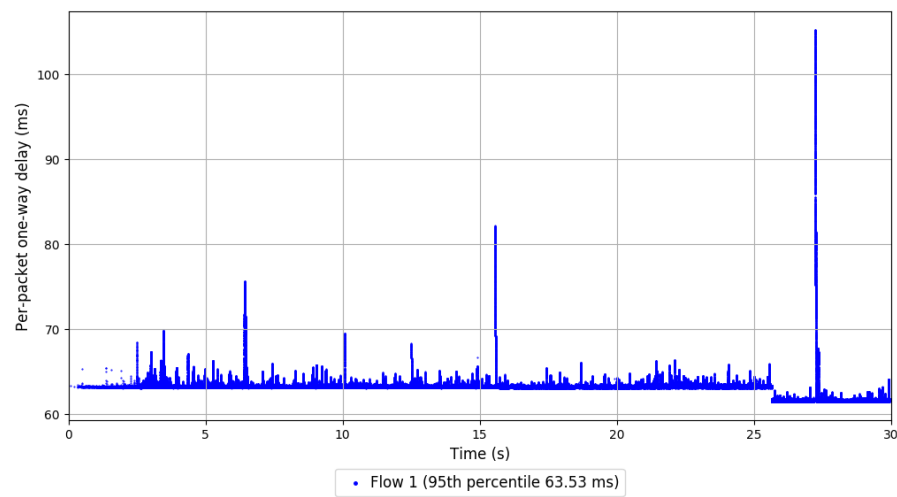
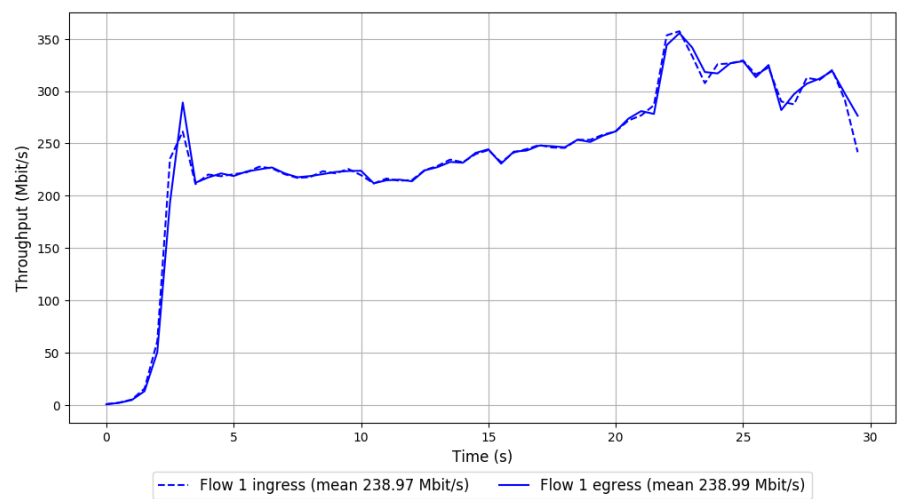
-- Flow 1:

Average throughput: 238.99 Mbit/s

95th percentile per-packet one-way delay: 63.527 ms

Loss rate: 0.00%

Run 10: Report of Vivace-latency — Data Link

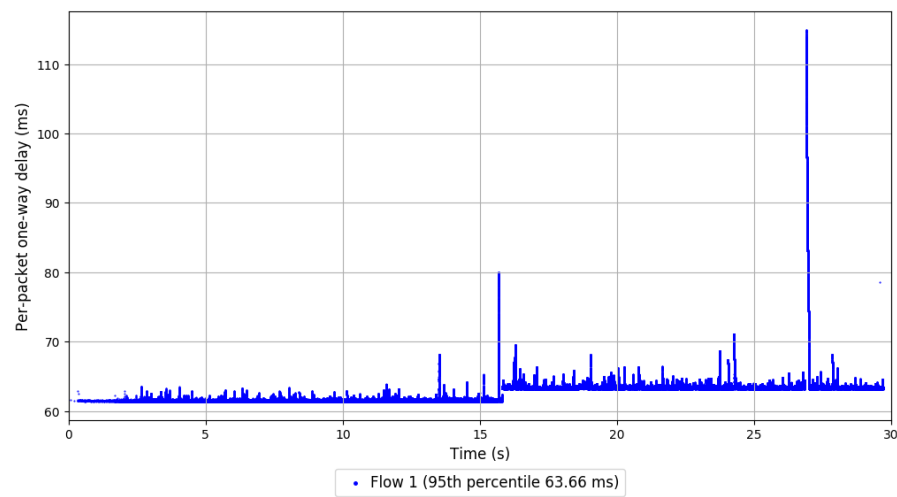
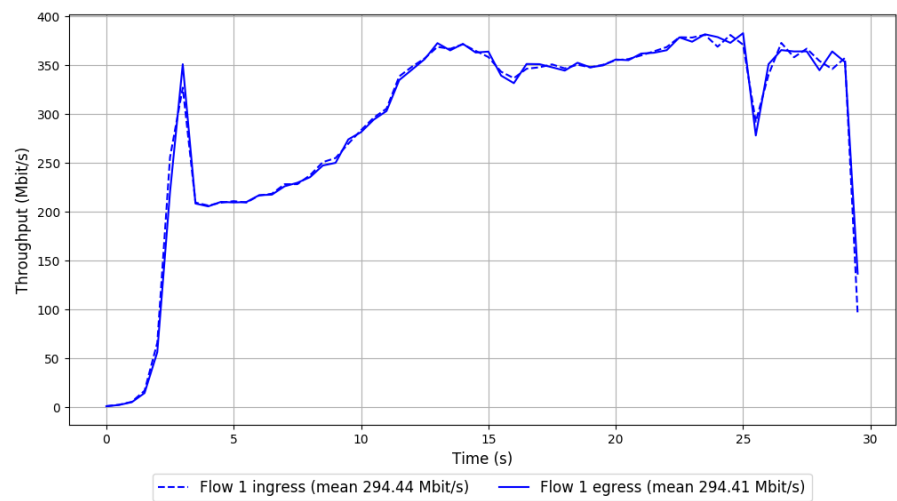


```
Run 1: Statistics of Vivace-loss

Start at: 2018-02-28 02:27:39
End at: 2018-02-28 02:28:09

# Below is generated by plot.py at 2018-02-28 08:47:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 294.41 Mbit/s
95th percentile per-packet one-way delay: 63.664 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 294.41 Mbit/s
95th percentile per-packet one-way delay: 63.664 ms
Loss rate: 0.00%
```

Run 1: Report of Vivace-loss — Data Link

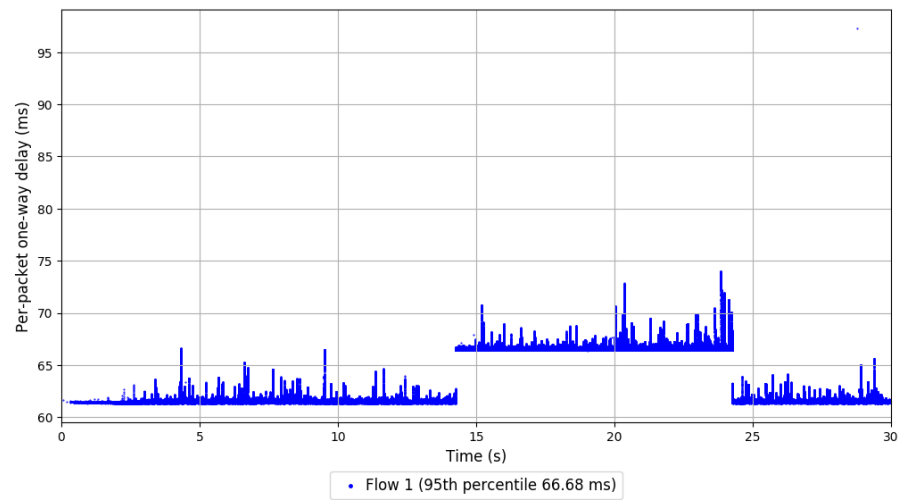
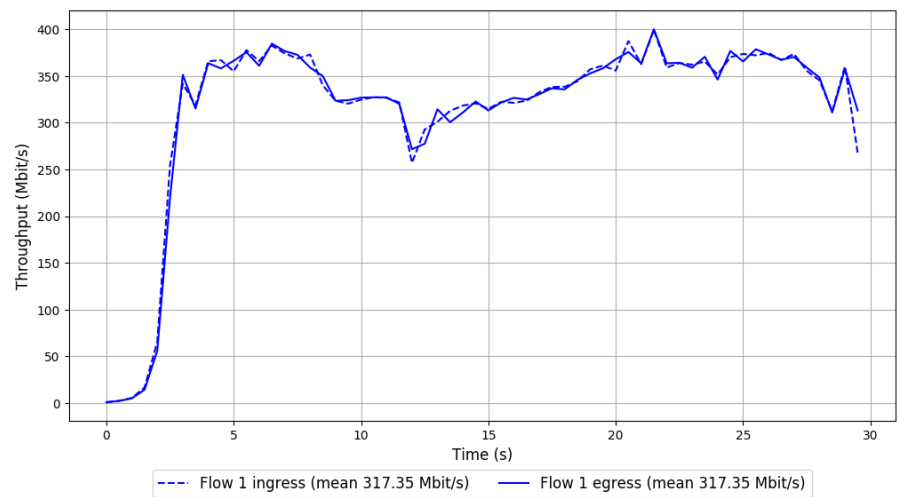


```
Run 2: Statistics of Vivace-loss

Start at: 2018-02-28 02:42:11
End at: 2018-02-28 02:42:41

# Below is generated by plot.py at 2018-02-28 08:48:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 317.35 Mbit/s
95th percentile per-packet one-way delay: 66.679 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 317.35 Mbit/s
95th percentile per-packet one-way delay: 66.679 ms
Loss rate: 0.00%
```

Run 2: Report of Vivace-loss — Data Link



Run 3: Statistics of Vivace-loss

Start at: 2018-02-28 02:56:44

End at: 2018-02-28 02:57:14

Below is generated by plot.py at 2018-02-28 08:49:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 294.57 Mbit/s

95th percentile per-packet one-way delay: 61.927 ms

Loss rate: 0.00%

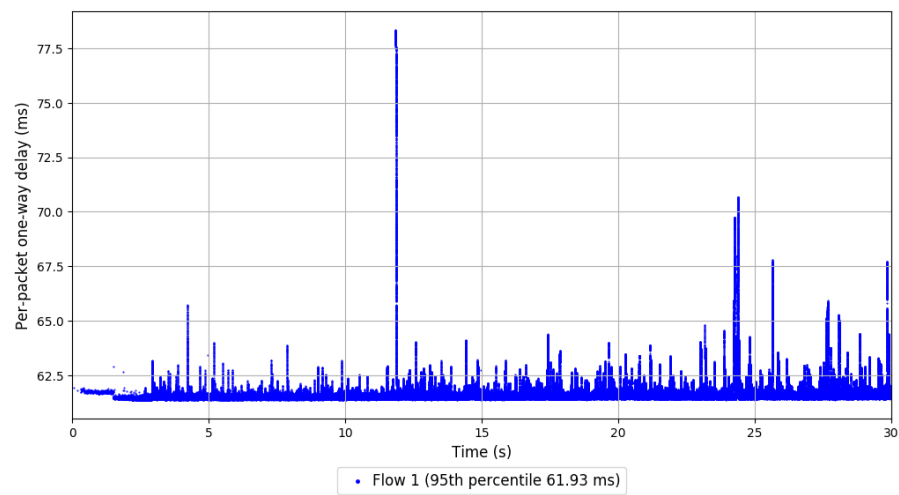
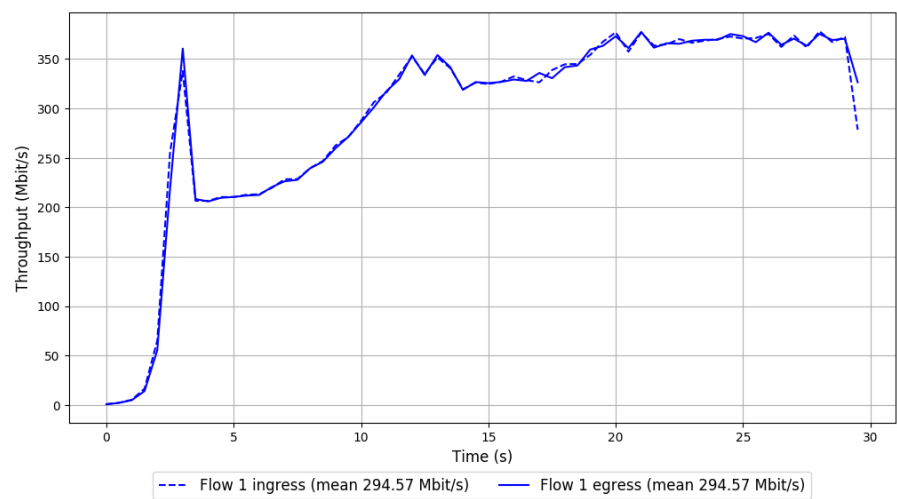
-- Flow 1:

Average throughput: 294.57 Mbit/s

95th percentile per-packet one-way delay: 61.927 ms

Loss rate: 0.00%

Run 3: Report of Vivace-loss — Data Link



Run 4: Statistics of Vivace-loss

Start at: 2018-02-28 03:11:16

End at: 2018-02-28 03:11:46

Below is generated by plot.py at 2018-02-28 08:50:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 297.17 Mbit/s

95th percentile per-packet one-way delay: 63.671 ms

Loss rate: 0.00%

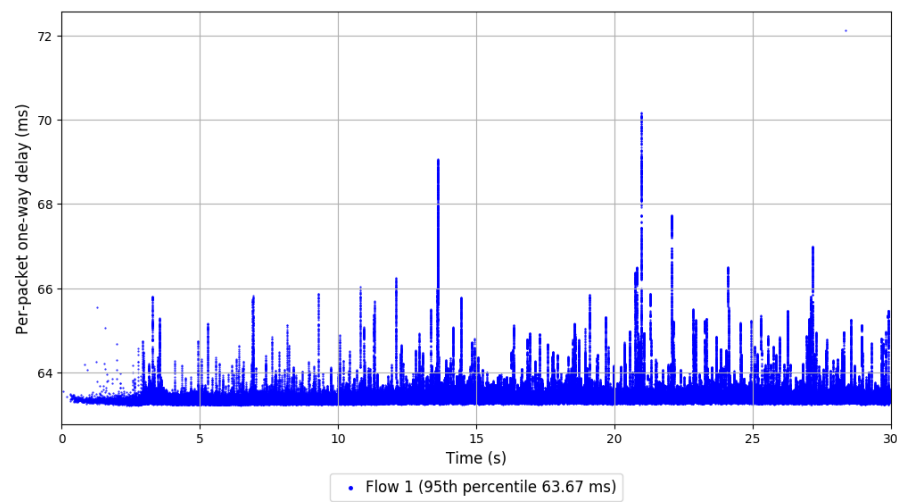
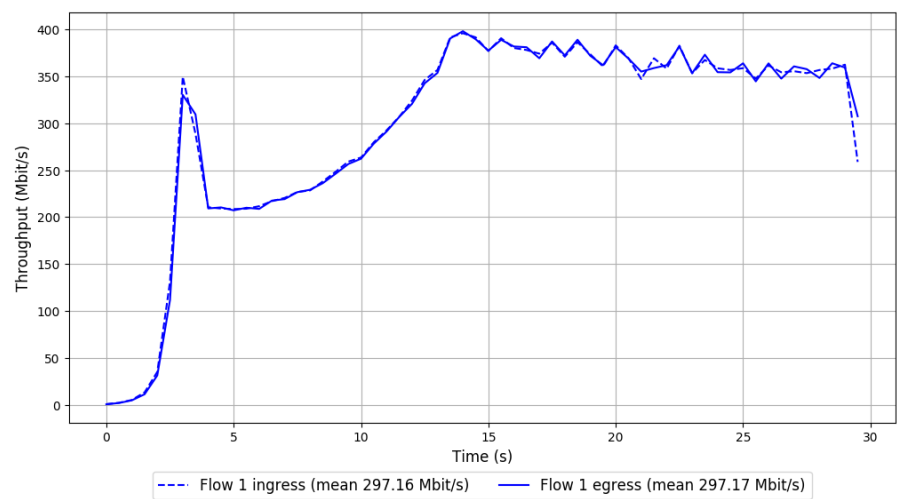
-- Flow 1:

Average throughput: 297.17 Mbit/s

95th percentile per-packet one-way delay: 63.671 ms

Loss rate: 0.00%

Run 4: Report of Vivace-loss — Data Link



Run 5: Statistics of Vivace-loss

Start at: 2018-02-28 03:25:44

End at: 2018-02-28 03:26:14

Below is generated by plot.py at 2018-02-28 08:52:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 326.92 Mbit/s

95th percentile per-packet one-way delay: 63.648 ms

Loss rate: 0.00%

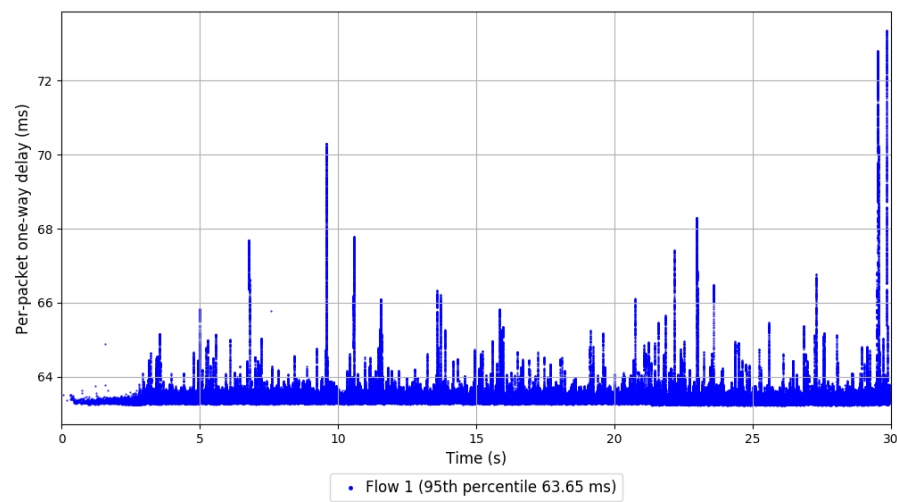
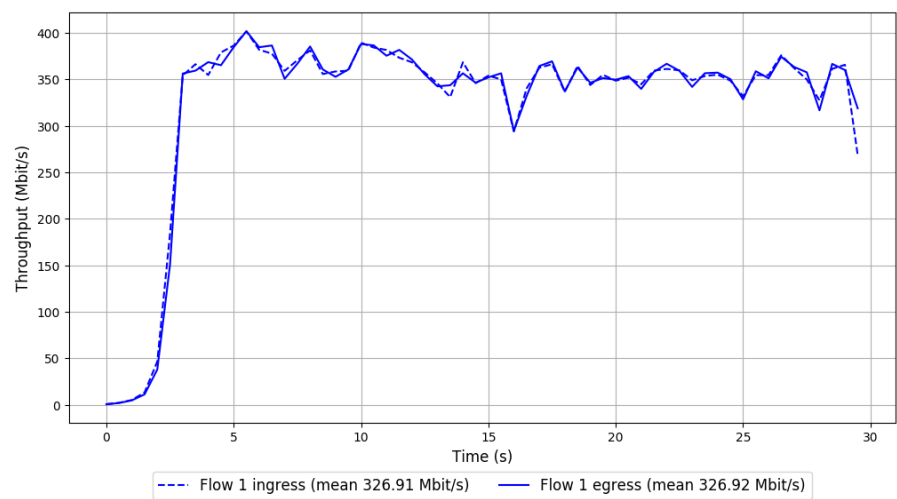
-- Flow 1:

Average throughput: 326.92 Mbit/s

95th percentile per-packet one-way delay: 63.648 ms

Loss rate: 0.00%

Run 5: Report of Vivace-loss — Data Link



Run 6: Statistics of Vivace-loss

Start at: 2018-02-28 03:40:14

End at: 2018-02-28 03:40:44

Below is generated by plot.py at 2018-02-28 08:52:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 276.61 Mbit/s

95th percentile per-packet one-way delay: 63.658 ms

Loss rate: 0.00%

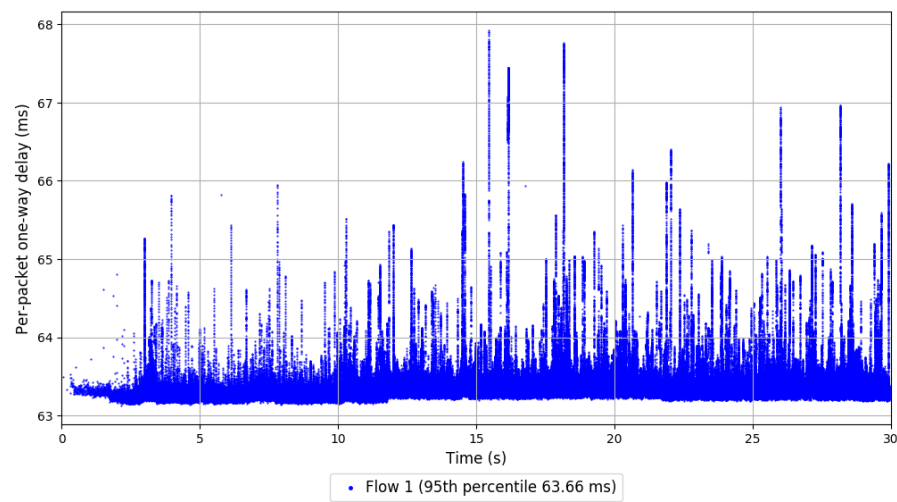
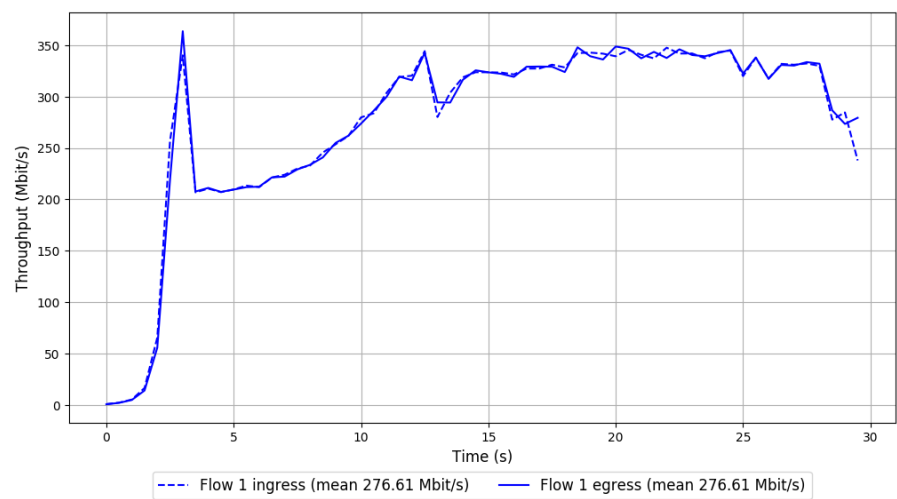
-- Flow 1:

Average throughput: 276.61 Mbit/s

95th percentile per-packet one-way delay: 63.658 ms

Loss rate: 0.00%

Run 6: Report of Vivace-loss — Data Link



Run 7: Statistics of Vivace-loss

Start at: 2018-02-28 03:54:38

End at: 2018-02-28 03:55:08

Below is generated by plot.py at 2018-02-28 08:53:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 302.96 Mbit/s

95th percentile per-packet one-way delay: 63.208 ms

Loss rate: 0.00%

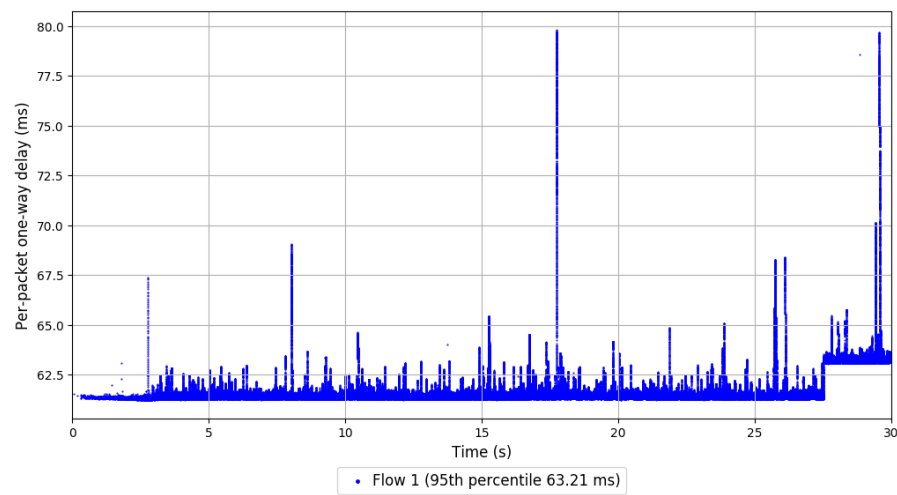
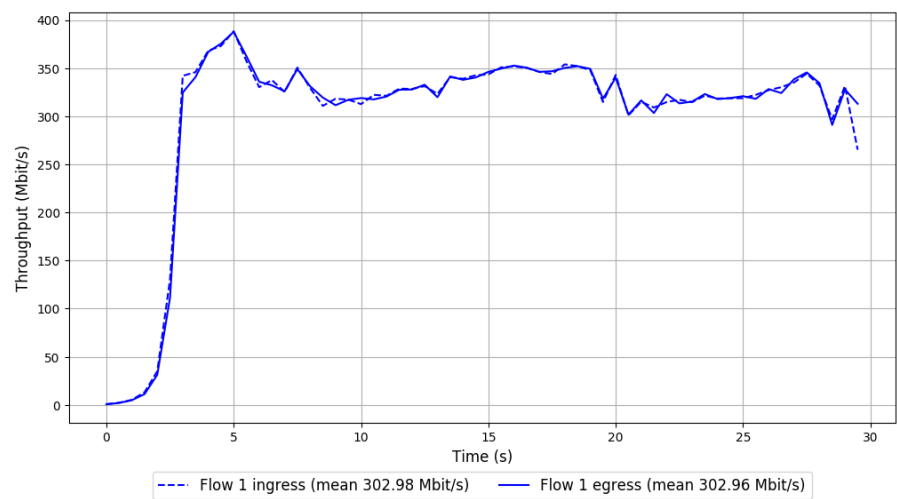
-- Flow 1:

Average throughput: 302.96 Mbit/s

95th percentile per-packet one-way delay: 63.208 ms

Loss rate: 0.00%

Run 7: Report of Vivace-loss — Data Link



Run 8: Statistics of Vivace-loss

Start at: 2018-02-28 04:09:13

End at: 2018-02-28 04:09:43

Below is generated by plot.py at 2018-02-28 08:54:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 304.52 Mbit/s

95th percentile per-packet one-way delay: 62.420 ms

Loss rate: 0.00%

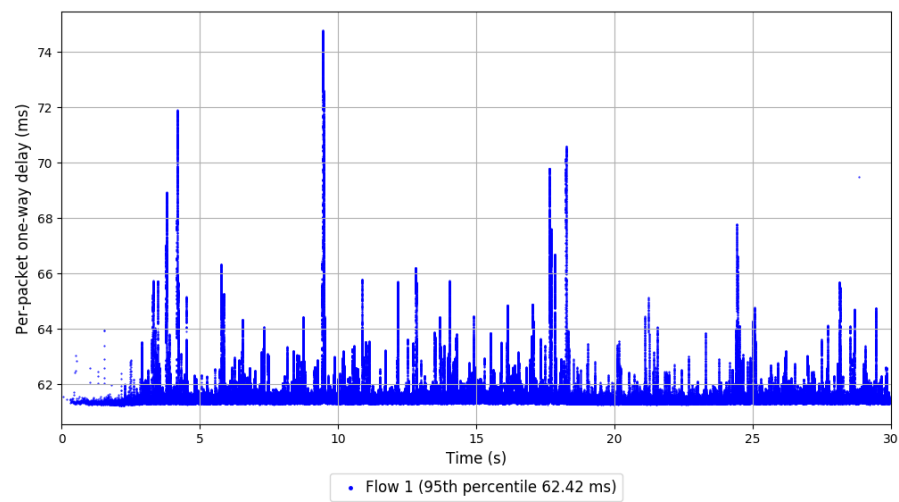
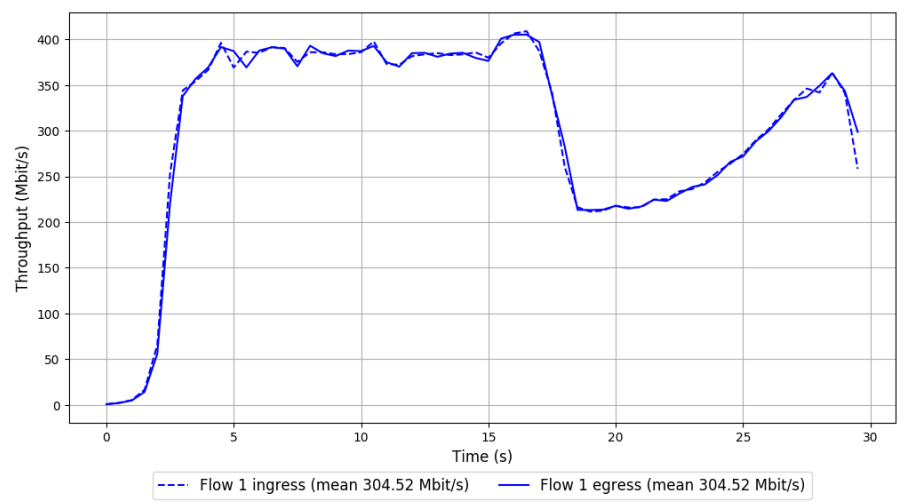
-- Flow 1:

Average throughput: 304.52 Mbit/s

95th percentile per-packet one-way delay: 62.420 ms

Loss rate: 0.00%

Run 8: Report of Vivace-loss — Data Link



Run 9: Statistics of Vivace-loss

Start at: 2018-02-28 04:23:51

End at: 2018-02-28 04:24:21

Below is generated by plot.py at 2018-02-28 08:56:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 309.35 Mbit/s

95th percentile per-packet one-way delay: 63.574 ms

Loss rate: 0.00%

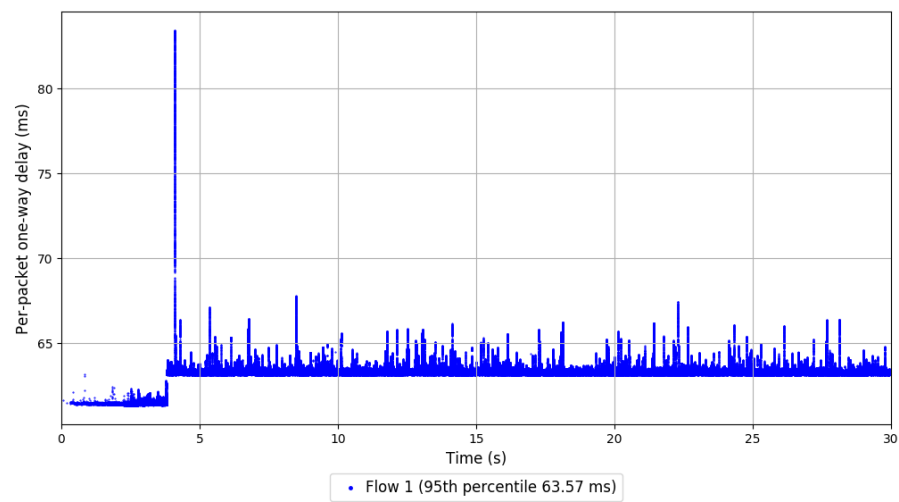
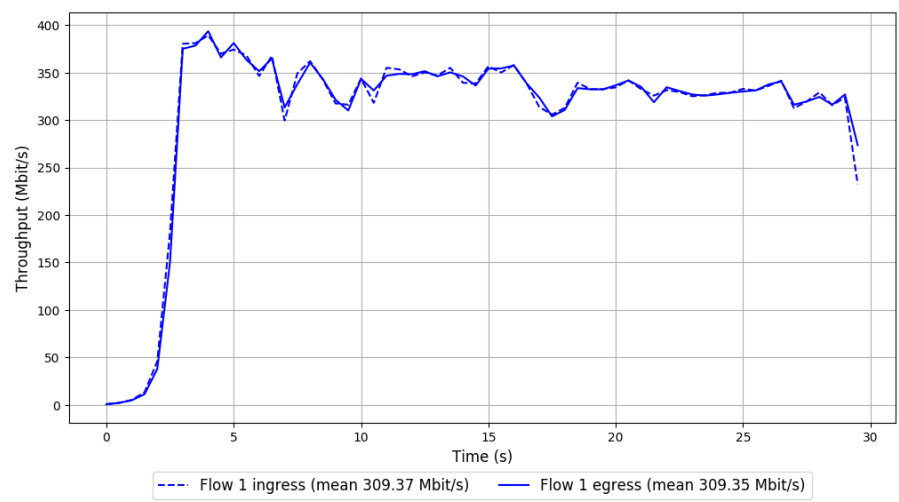
-- Flow 1:

Average throughput: 309.35 Mbit/s

95th percentile per-packet one-way delay: 63.574 ms

Loss rate: 0.00%

Run 9: Report of Vivace-loss — Data Link



Run 10: Statistics of Vivace-loss

Start at: 2018-02-28 04:38:20

End at: 2018-02-28 04:38:50

Below is generated by plot.py at 2018-02-28 08:58:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 330.37 Mbit/s

95th percentile per-packet one-way delay: 61.994 ms

Loss rate: 0.00%

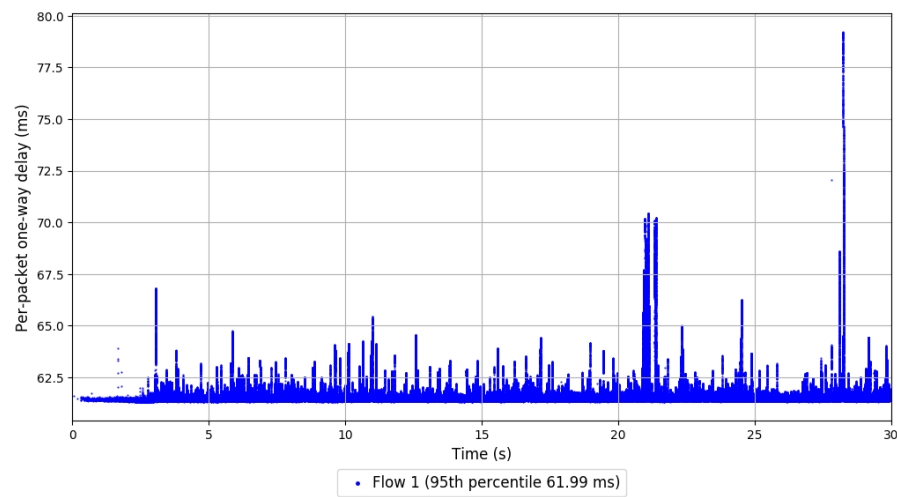
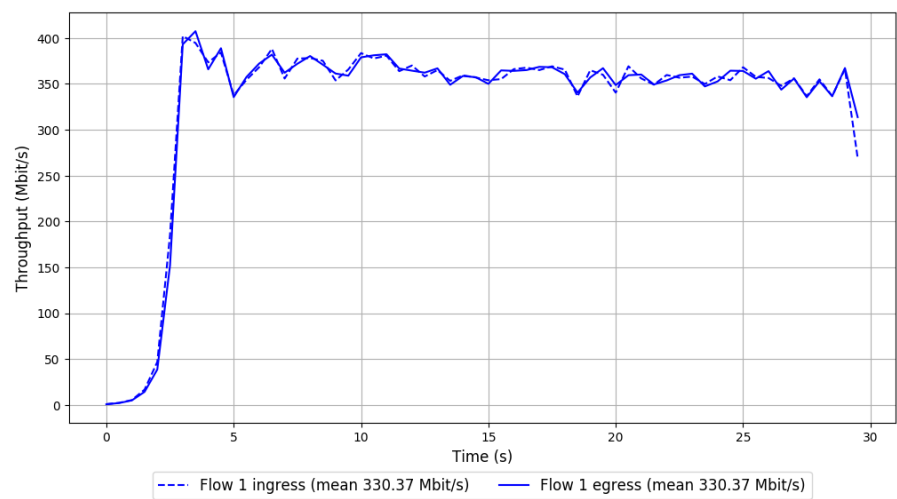
-- Flow 1:

Average throughput: 330.37 Mbit/s

95th percentile per-packet one-way delay: 61.994 ms

Loss rate: 0.00%

Run 10: Report of Vivace-loss — Data Link



Run 1: Statistics of Vivace-LTE

Start at: 2018-02-28 02:37:30

End at: 2018-02-28 02:38:00

Below is generated by plot.py at 2018-02-28 08:58:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 285.96 Mbit/s

95th percentile per-packet one-way delay: 63.395 ms

Loss rate: 0.00%

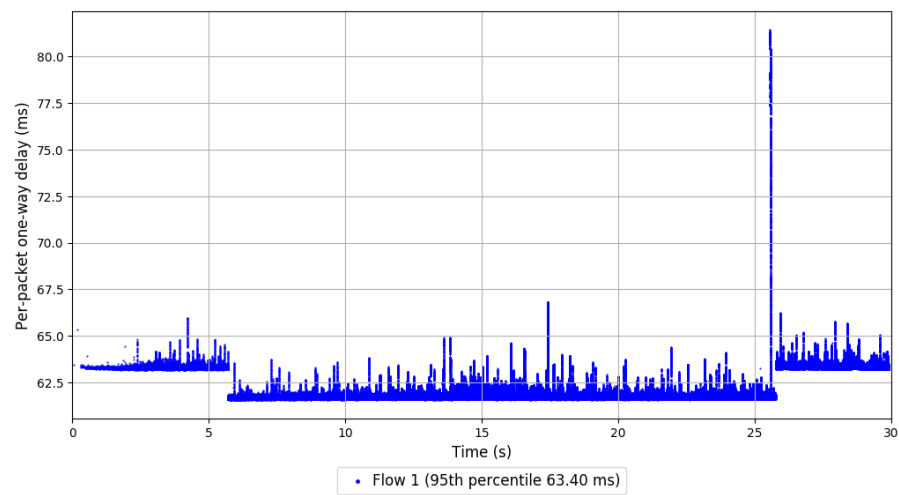
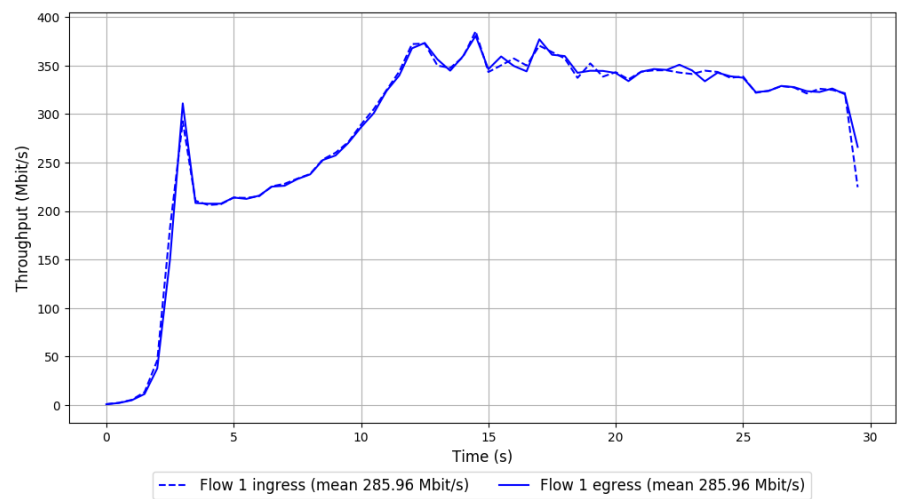
-- Flow 1:

Average throughput: 285.96 Mbit/s

95th percentile per-packet one-way delay: 63.395 ms

Loss rate: 0.00%

Run 1: Report of Vivace-LTE — Data Link



Run 2: Statistics of Vivace-LTE

Start at: 2018-02-28 02:52:05

End at: 2018-02-28 02:52:35

Below is generated by plot.py at 2018-02-28 08:58:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 274.10 Mbit/s

95th percentile per-packet one-way delay: 61.974 ms

Loss rate: 0.00%

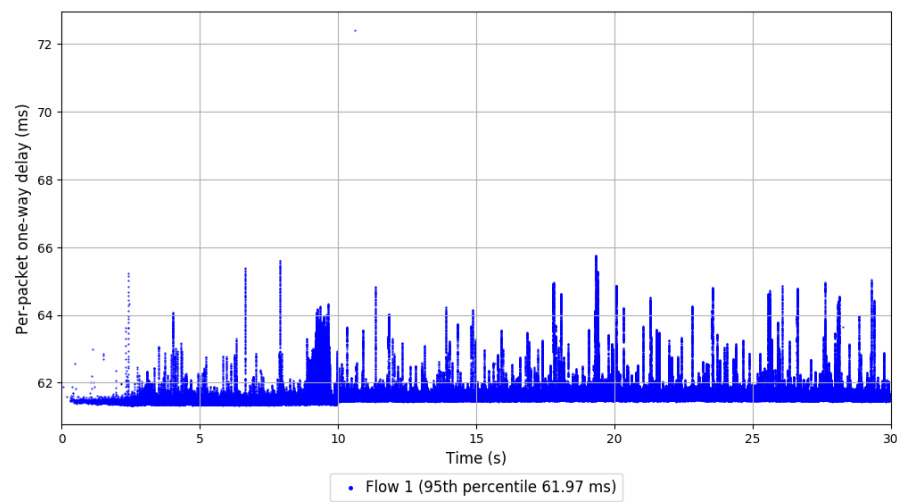
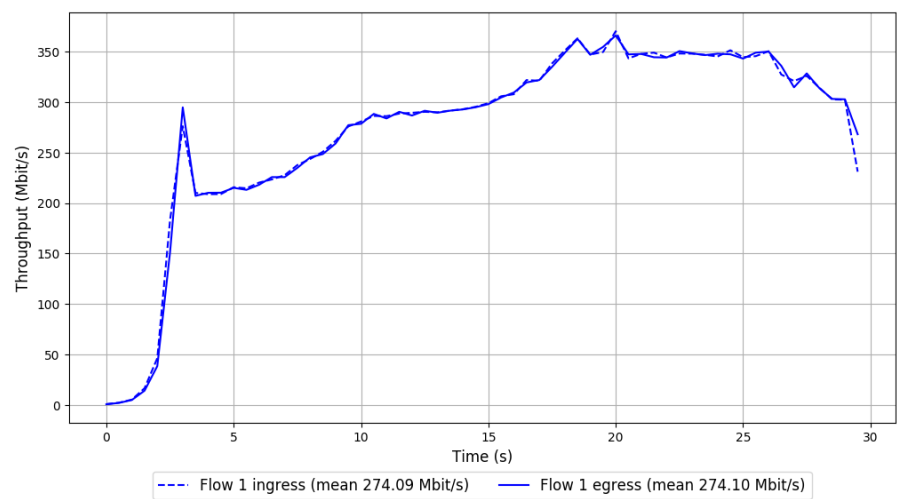
-- Flow 1:

Average throughput: 274.10 Mbit/s

95th percentile per-packet one-way delay: 61.974 ms

Loss rate: 0.00%

Run 2: Report of Vivace-LTE — Data Link



Run 3: Statistics of Vivace-LTE

Start at: 2018-02-28 03:06:33

End at: 2018-02-28 03:07:03

Below is generated by plot.py at 2018-02-28 08:59:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 250.02 Mbit/s

95th percentile per-packet one-way delay: 63.514 ms

Loss rate: 0.00%

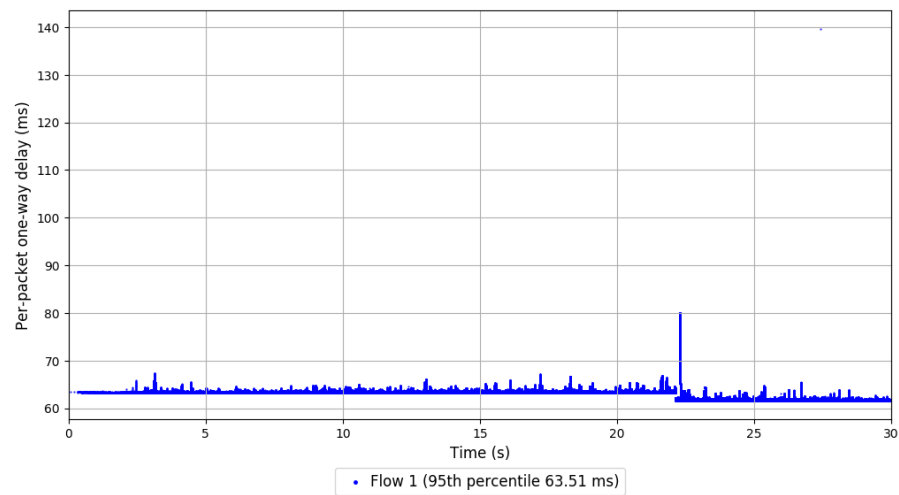
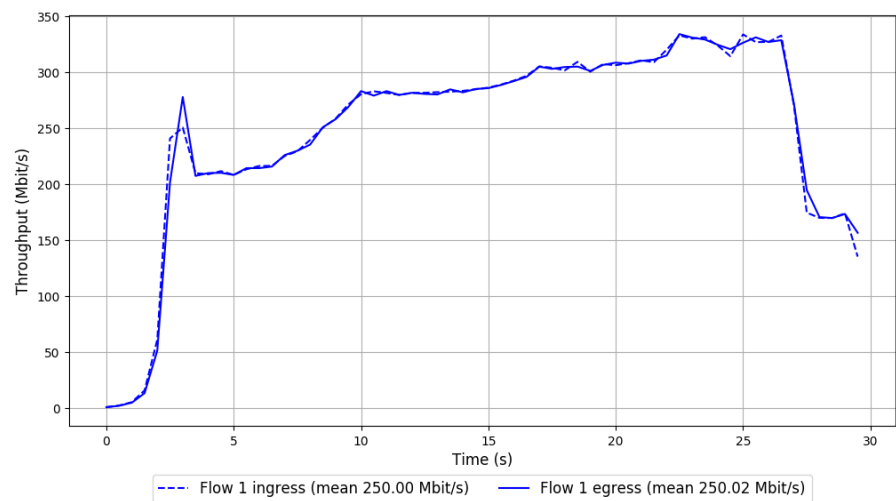
-- Flow 1:

Average throughput: 250.02 Mbit/s

95th percentile per-packet one-way delay: 63.514 ms

Loss rate: 0.00%

Run 3: Report of Vivace-LTE — Data Link



Run 4: Statistics of Vivace-LTE

Start at: 2018-02-28 03:21:01

End at: 2018-02-28 03:21:31

Below is generated by plot.py at 2018-02-28 09:00:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 266.26 Mbit/s

95th percentile per-packet one-way delay: 63.437 ms

Loss rate: 0.00%

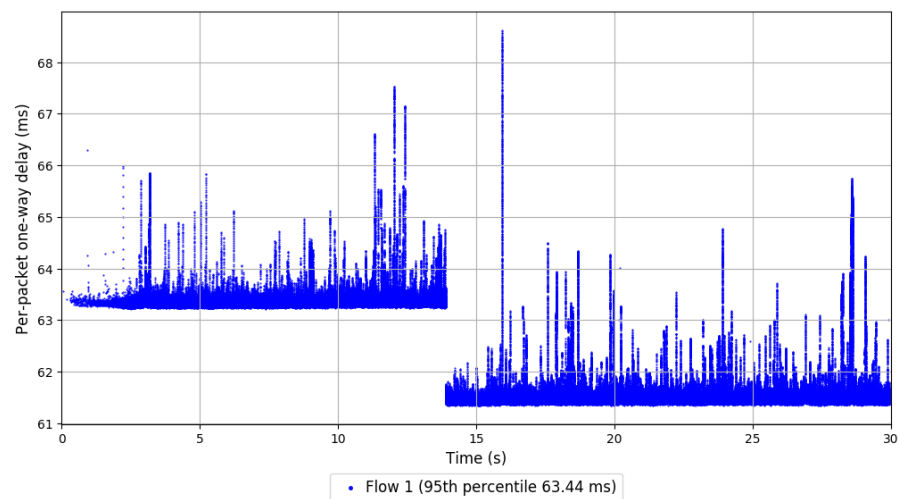
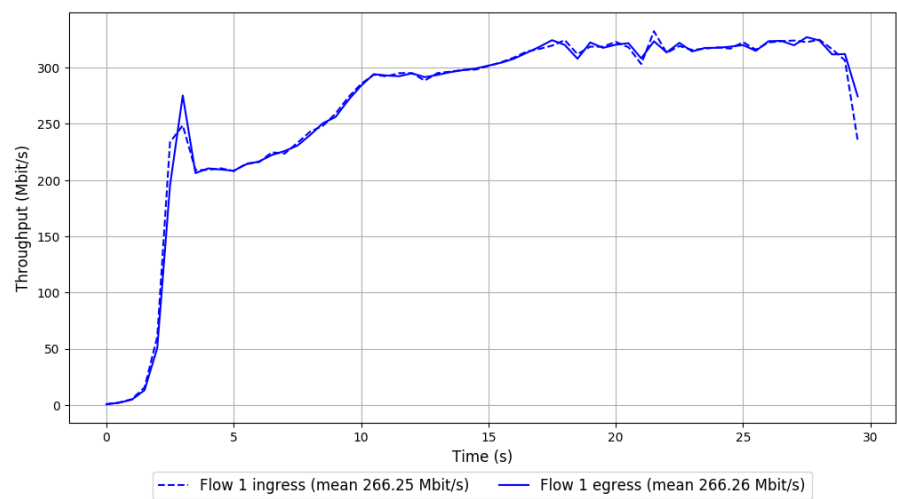
-- Flow 1:

Average throughput: 266.26 Mbit/s

95th percentile per-packet one-way delay: 63.437 ms

Loss rate: 0.00%

Run 4: Report of Vivace-LTE — Data Link



Run 5: Statistics of Vivace-LTE

Start at: 2018-02-28 03:35:28

End at: 2018-02-28 03:35:58

Below is generated by plot.py at 2018-02-28 09:00:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 253.04 Mbit/s

95th percentile per-packet one-way delay: 63.842 ms

Loss rate: 0.00%

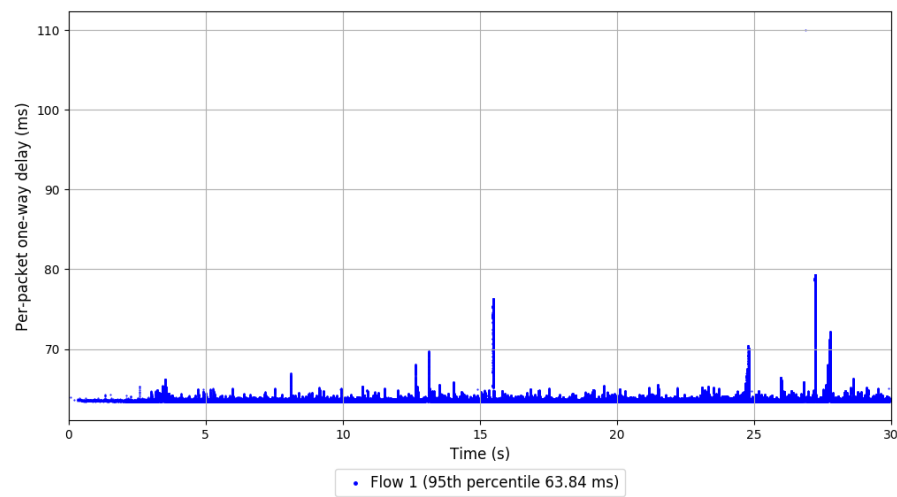
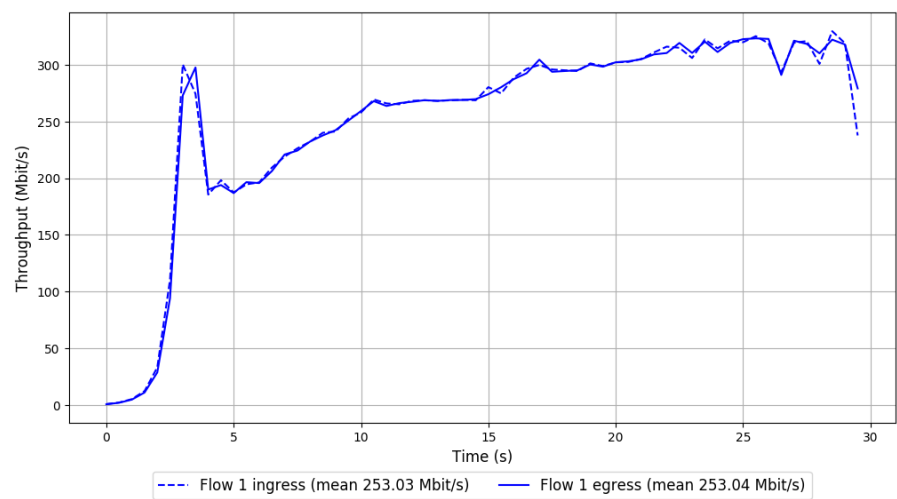
-- Flow 1:

Average throughput: 253.04 Mbit/s

95th percentile per-packet one-way delay: 63.842 ms

Loss rate: 0.00%

Run 5: Report of Vivace-LTE — Data Link



Run 6: Statistics of Vivace-LTE

Start at: 2018-02-28 03:49:54

End at: 2018-02-28 03:50:24

Below is generated by plot.py at 2018-02-28 09:02:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 298.27 Mbit/s

95th percentile per-packet one-way delay: 63.720 ms

Loss rate: 0.01%

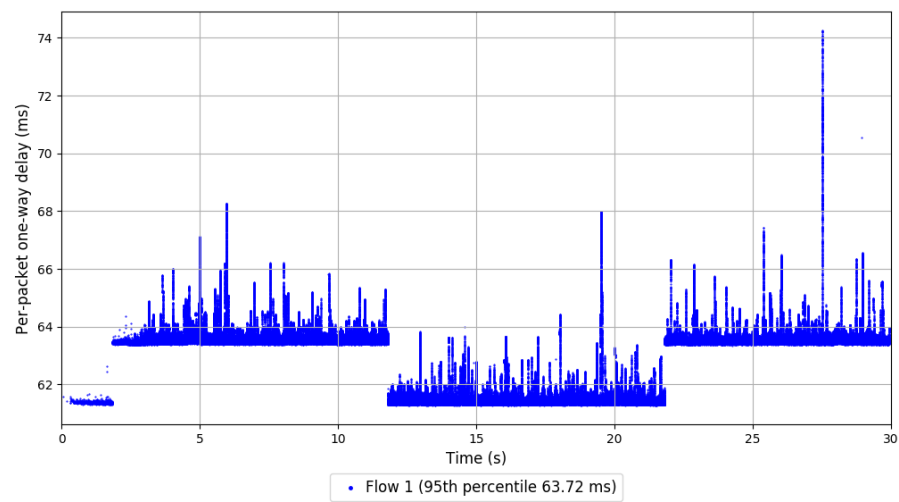
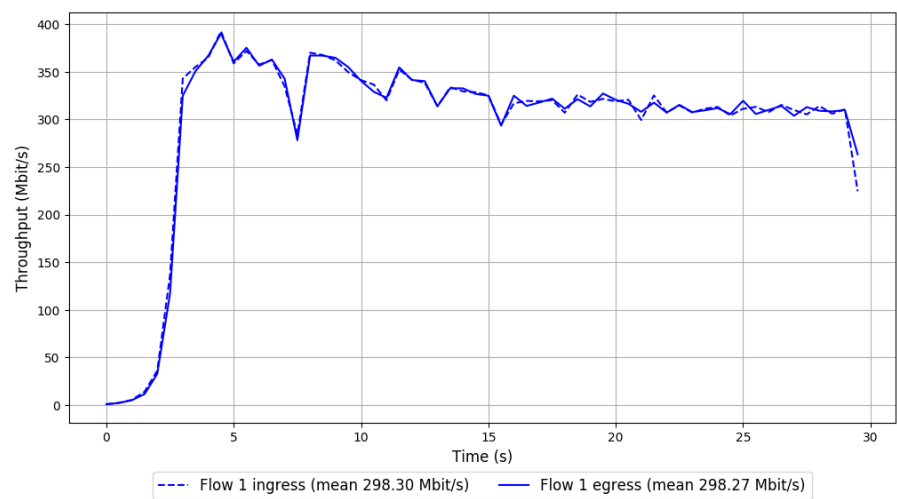
-- Flow 1:

Average throughput: 298.27 Mbit/s

95th percentile per-packet one-way delay: 63.720 ms

Loss rate: 0.01%

Run 6: Report of Vivace-LTE — Data Link



Run 7: Statistics of Vivace-LTE

Start at: 2018-02-28 04:04:30

End at: 2018-02-28 04:05:00

Below is generated by plot.py at 2018-02-28 09:02:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 256.05 Mbit/s

95th percentile per-packet one-way delay: 63.393 ms

Loss rate: 0.00%

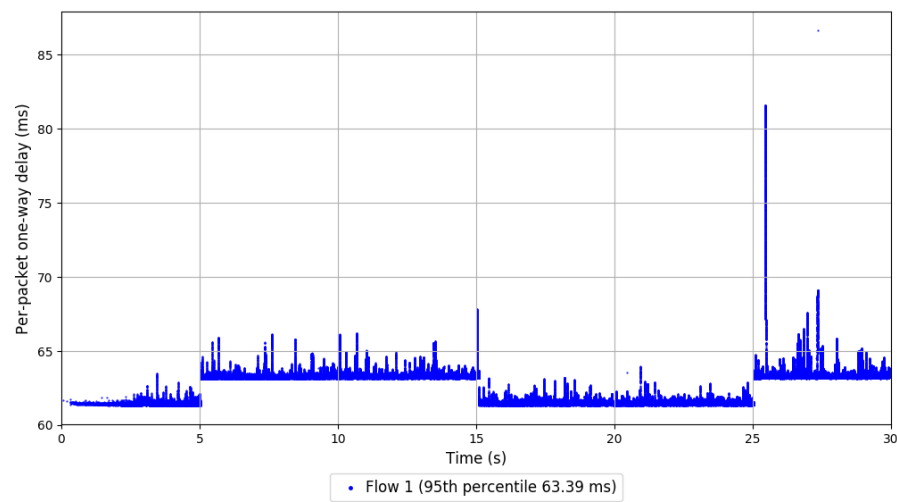
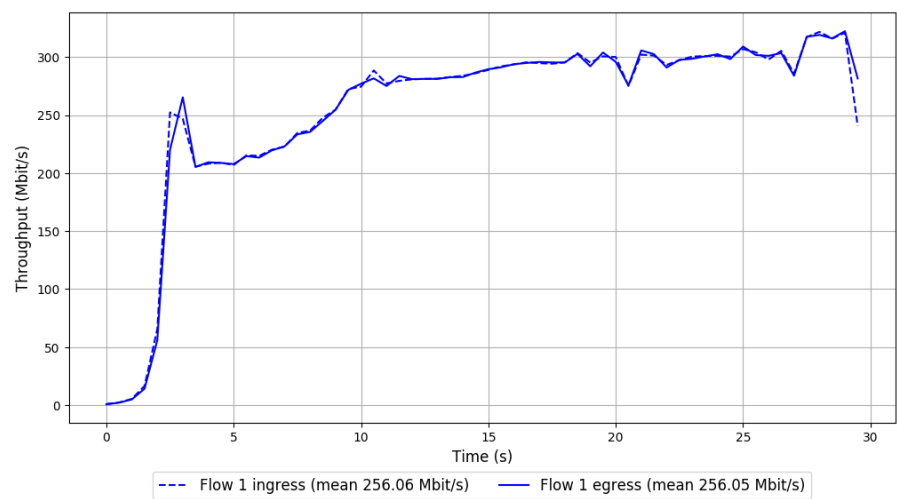
-- Flow 1:

Average throughput: 256.05 Mbit/s

95th percentile per-packet one-way delay: 63.393 ms

Loss rate: 0.00%

Run 7: Report of Vivace-LTE — Data Link



Run 8: Statistics of Vivace-LTE

Start at: 2018-02-28 04:19:06

End at: 2018-02-28 04:19:36

Below is generated by plot.py at 2018-02-28 09:02:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 238.59 Mbit/s

95th percentile per-packet one-way delay: 63.512 ms

Loss rate: 0.00%

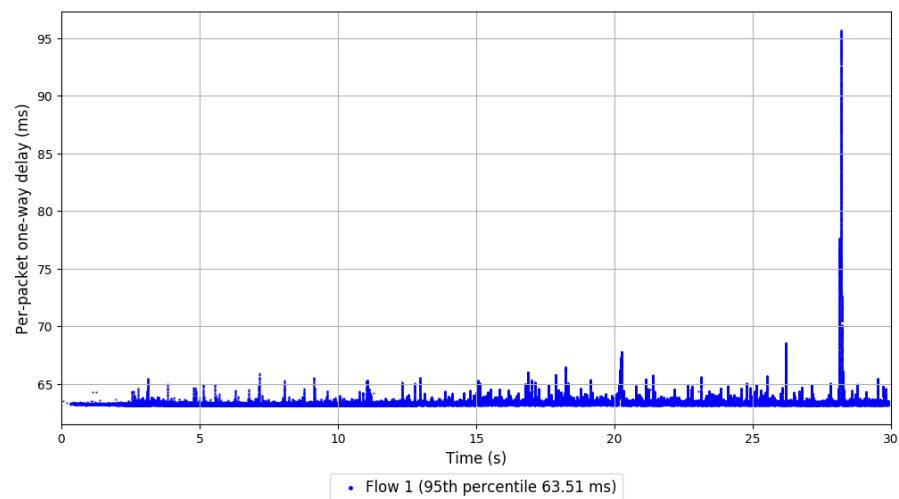
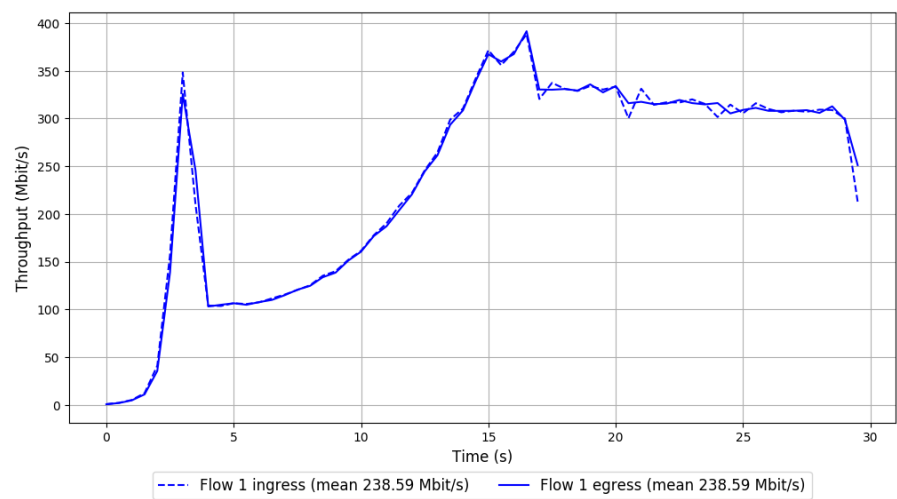
-- Flow 1:

Average throughput: 238.59 Mbit/s

95th percentile per-packet one-way delay: 63.512 ms

Loss rate: 0.00%

Run 8: Report of Vivace-LTE — Data Link



Run 9: Statistics of Vivace-LTE

Start at: 2018-02-28 04:33:41

End at: 2018-02-28 04:34:11

Below is generated by plot.py at 2018-02-28 09:02:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 204.53 Mbit/s

95th percentile per-packet one-way delay: 63.381 ms

Loss rate: 0.00%

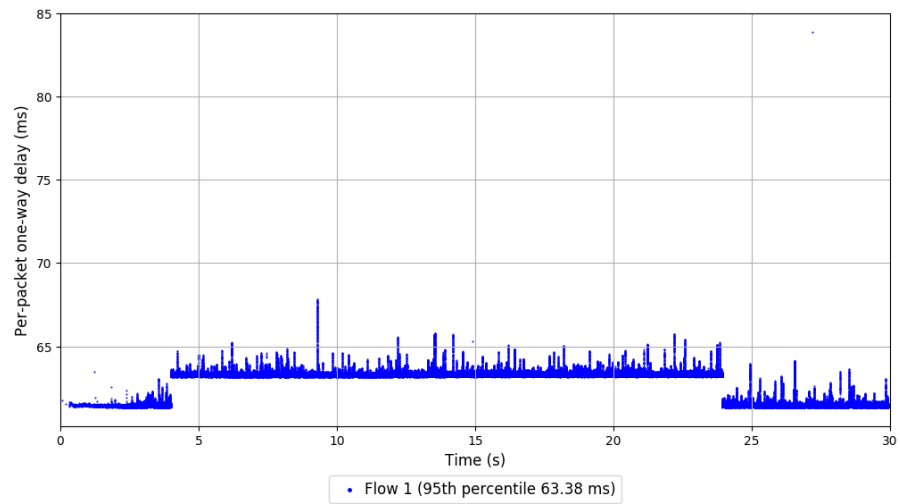
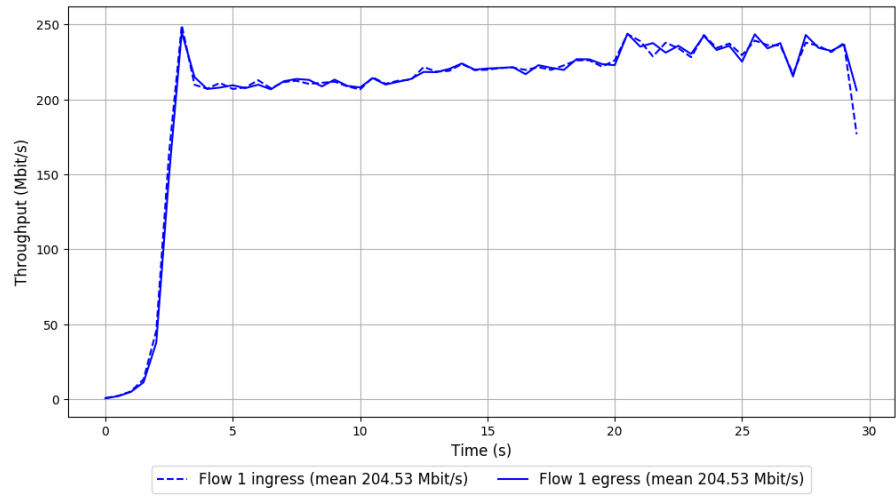
-- Flow 1:

Average throughput: 204.53 Mbit/s

95th percentile per-packet one-way delay: 63.381 ms

Loss rate: 0.00%

Run 9: Report of Vivace-LTE — Data Link



```
Run 10: Statistics of Vivace-LTE

Start at: 2018-02-28 04:48:14
End at: 2018-02-28 04:48:44

# Below is generated by plot.py at 2018-02-28 09:02:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 292.90 Mbit/s
95th percentile per-packet one-way delay: 64.238 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 292.90 Mbit/s
95th percentile per-packet one-way delay: 64.238 ms
Loss rate: 0.00%
```

Run 10: Report of Vivace-LTE — Data Link

