

Pantheon Report

Generated at 2018-02-16 22:47:52 (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.

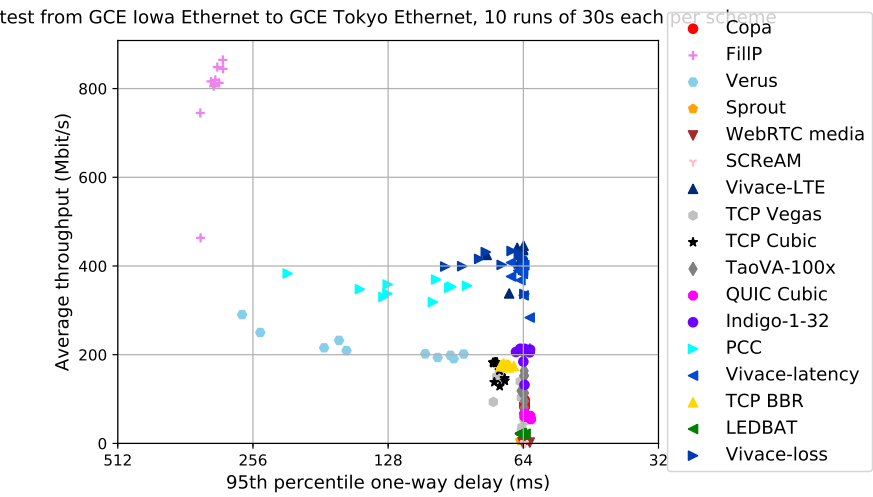
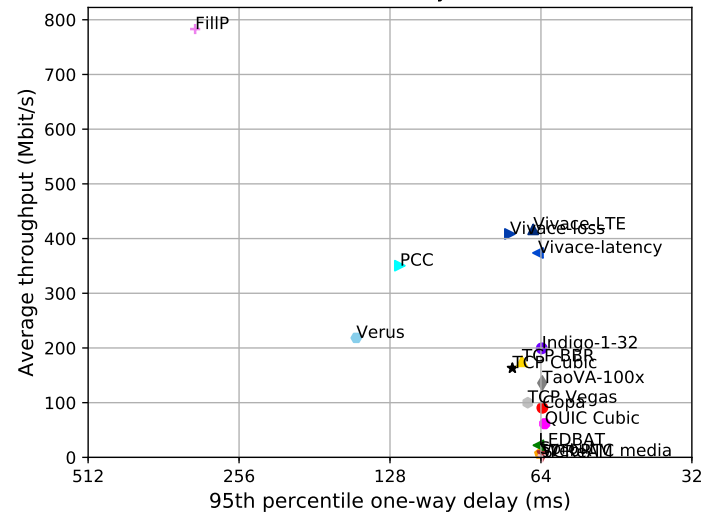
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

Git summary:

```
branch: master @ cccb2d77344969a7bac1df6edf6c0cfb6c77a6f8
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ 828bbf95fd4941149b5cec90f281d1c69ae1a5c6
third_party/genericCC @ 8400b8926887fc4cf8c795a1d7ce2c8ac041ec72
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	175.60	69.84	0.00
TCP Cubic	10	163.11	72.97	0.04
LEDBAT	10	22.03	64.75	0.00
PCC	10	350.44	122.32	0.10
QUIC Cubic	9	61.51	62.89	0.00
SCReAM	10	0.22	63.68	0.00
WebRTC media	10	2.27	63.57	0.00
Sprout	10	6.59	64.36	0.00
TaoVA-100x	10	135.90	63.64	0.00
TCP Vegas	10	99.93	68.01	0.00
Verus	10	218.43	149.45	0.83
Copa	10	90.63	63.59	0.00
FillP	10	783.00	313.21	7.94
Indigo-1-32	10	199.32	63.77	0.00
Vivace-latency	10	373.70	64.90	0.00
Vivace-loss	10	408.42	73.79	0.02
Vivace-LTE	10	416.80	66.32	0.01

Run 1: Statistics of TCP BBR

Start at: 2018-02-16 17:11:32

End at: 2018-02-16 17:12:02

Below is generated by plot.py at 2018-02-16 21:22:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 171.30 Mbit/s

95th percentile per-packet one-way delay: 68.840 ms

Loss rate: 0.00%

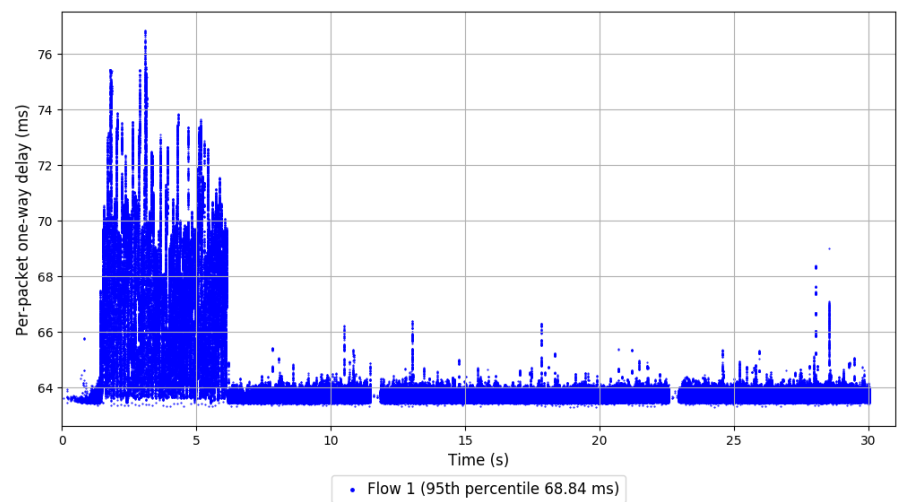
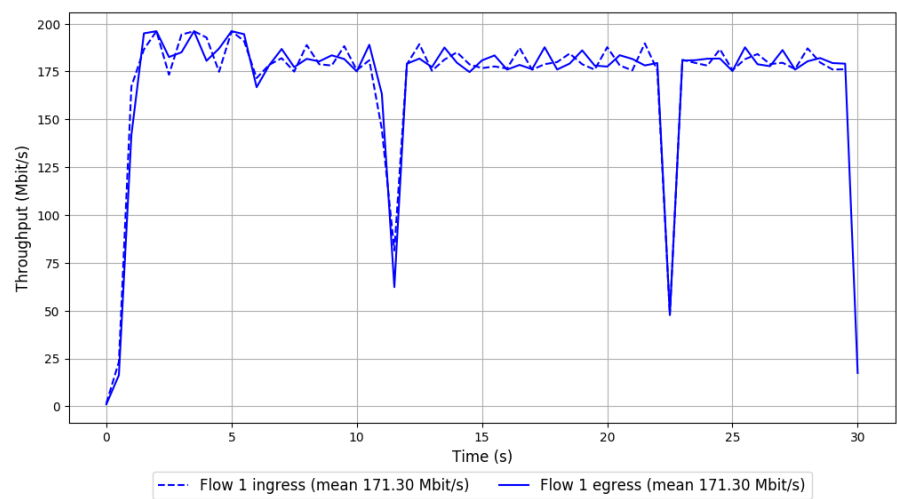
-- Flow 1:

Average throughput: 171.30 Mbit/s

95th percentile per-packet one-way delay: 68.840 ms

Loss rate: 0.00%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-02-16 17:26:18

End at: 2018-02-16 17:26:48

Below is generated by plot.py at 2018-02-16 21:22:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 177.98 Mbit/s

95th percentile per-packet one-way delay: 69.766 ms

Loss rate: 0.00%

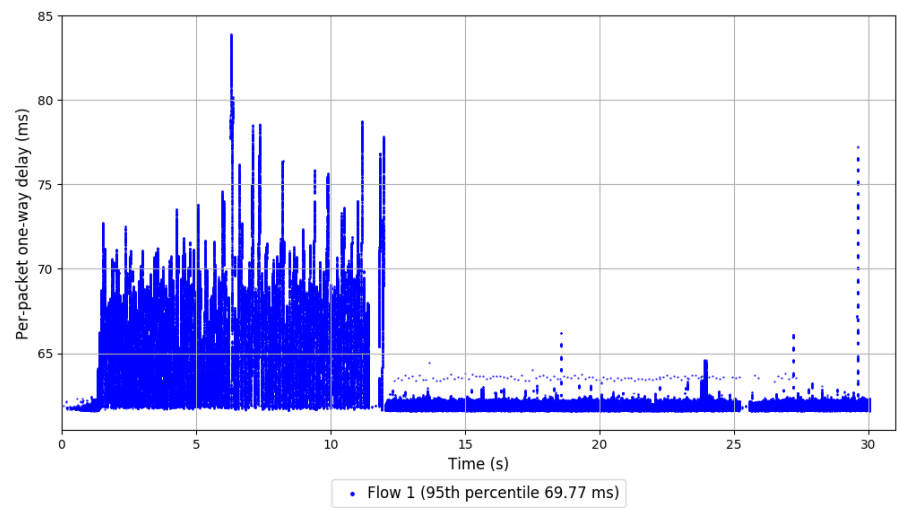
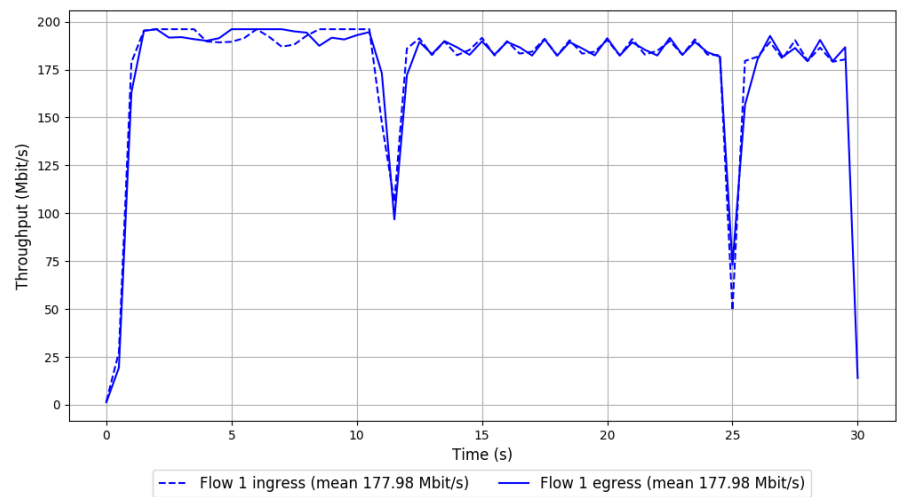
-- Flow 1:

Average throughput: 177.98 Mbit/s

95th percentile per-packet one-way delay: 69.766 ms

Loss rate: 0.00%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-02-16 17:41:17

End at: 2018-02-16 17:41:47

Below is generated by plot.py at 2018-02-16 21:22:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 175.60 Mbit/s

95th percentile per-packet one-way delay: 68.685 ms

Loss rate: 0.00%

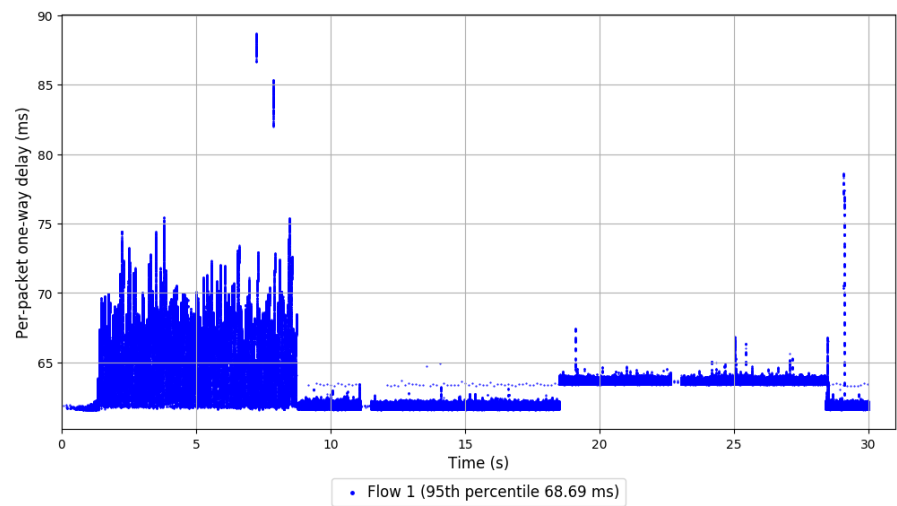
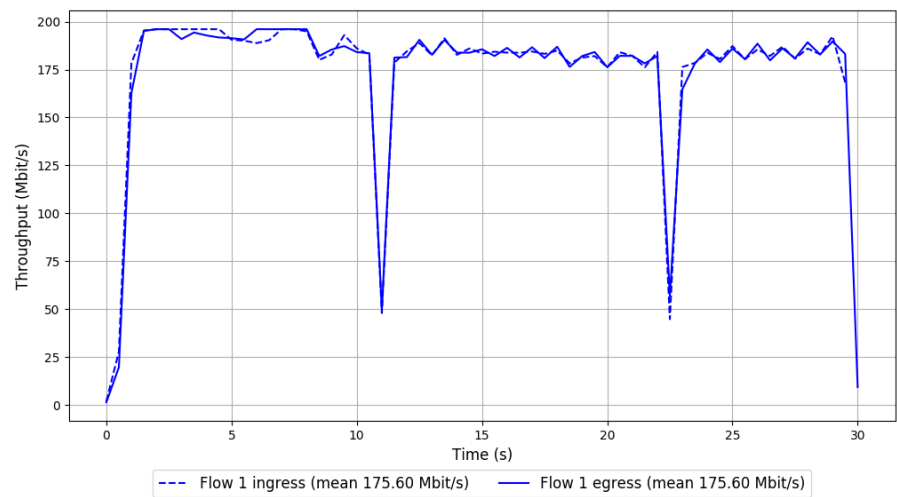
-- Flow 1:

Average throughput: 175.60 Mbit/s

95th percentile per-packet one-way delay: 68.685 ms

Loss rate: 0.00%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-02-16 17:56:19

End at: 2018-02-16 17:56:49

Below is generated by plot.py at 2018-02-16 21:22:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 173.68 Mbit/s

95th percentile per-packet one-way delay: 71.916 ms

Loss rate: 0.01%

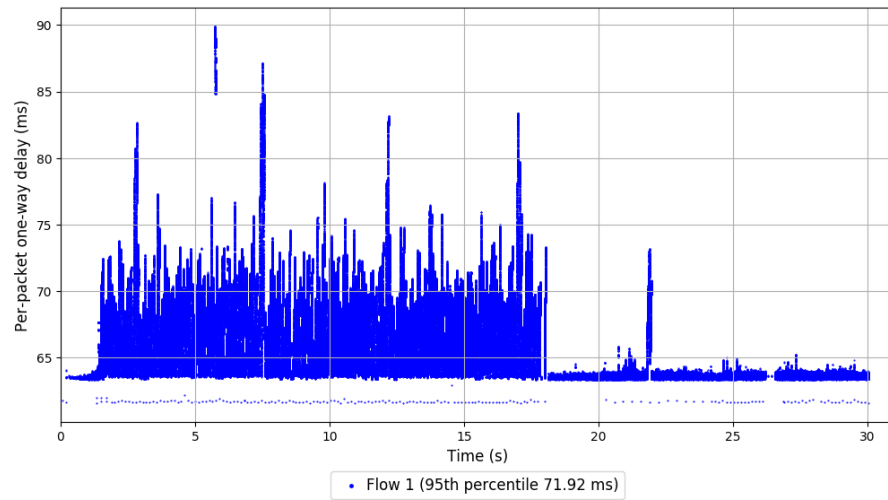
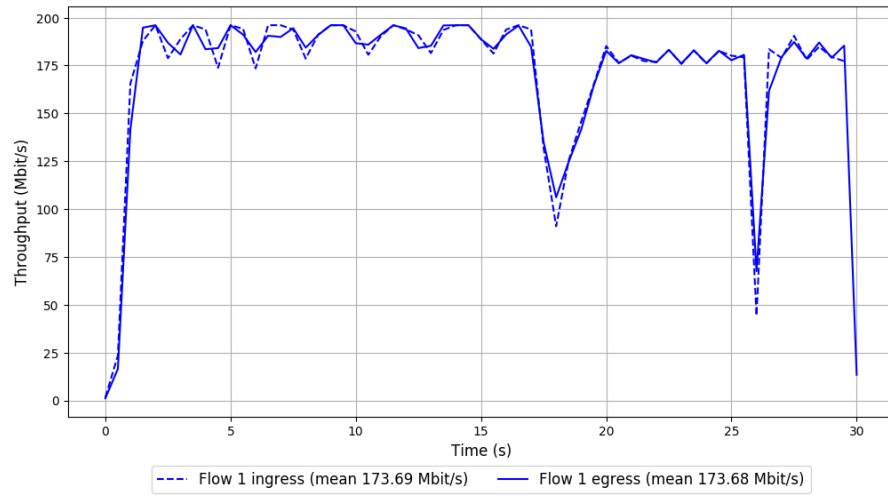
-- Flow 1:

Average throughput: 173.68 Mbit/s

95th percentile per-packet one-way delay: 71.916 ms

Loss rate: 0.01%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-02-16 18:11:09

End at: 2018-02-16 18:11:39

Below is generated by plot.py at 2018-02-16 21:22:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 174.33 Mbit/s

95th percentile per-packet one-way delay: 67.196 ms

Loss rate: 0.01%

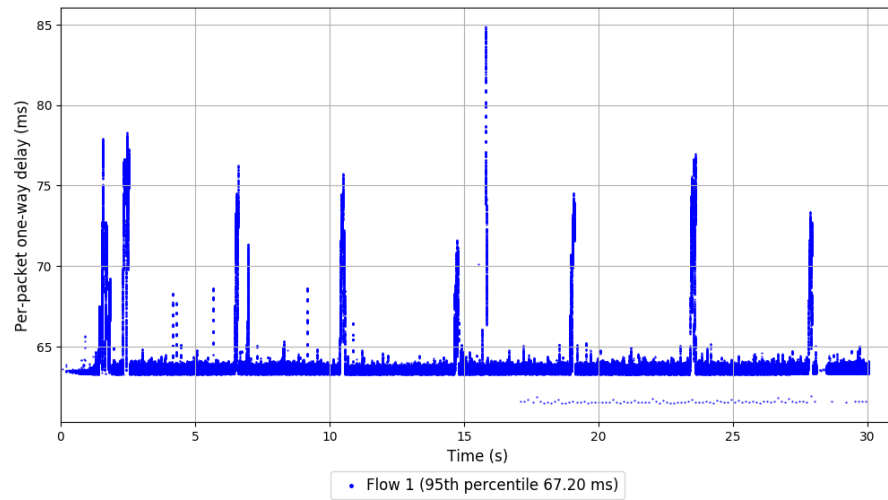
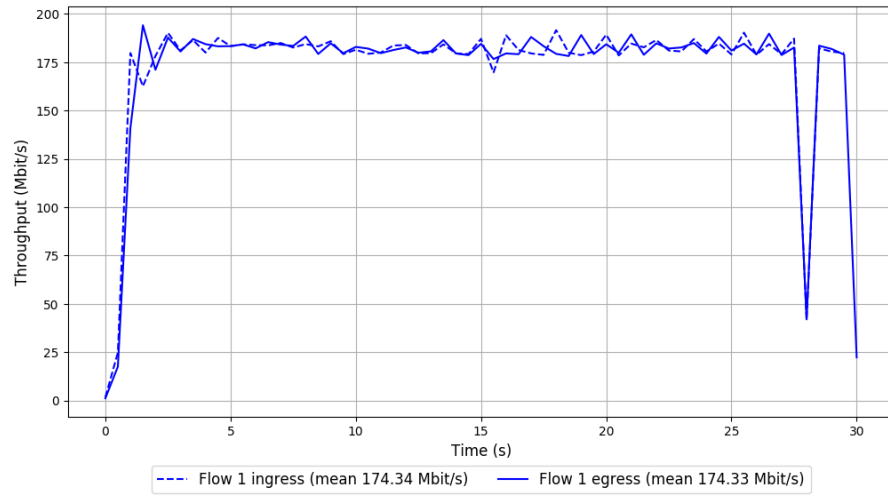
-- Flow 1:

Average throughput: 174.33 Mbit/s

95th percentile per-packet one-way delay: 67.196 ms

Loss rate: 0.01%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-02-16 18:25:59

End at: 2018-02-16 18:26:29

Below is generated by plot.py at 2018-02-16 21:22:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 174.60 Mbit/s

95th percentile per-packet one-way delay: 70.102 ms

Loss rate: 0.01%

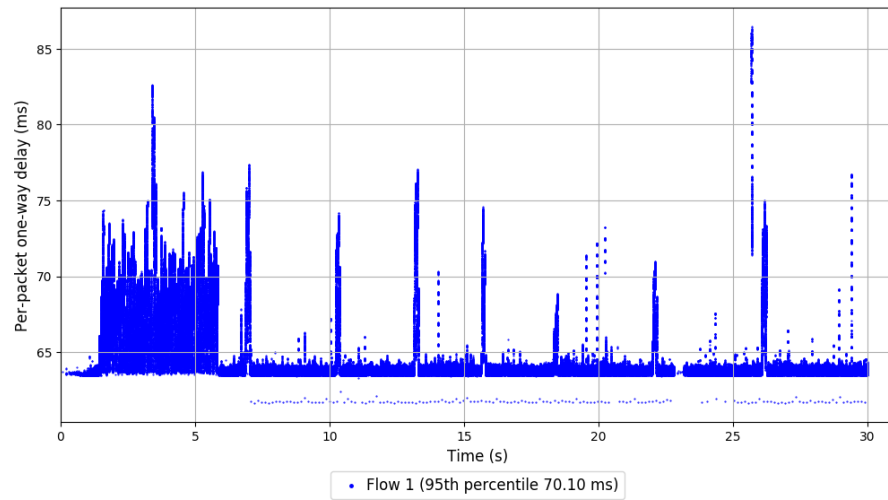
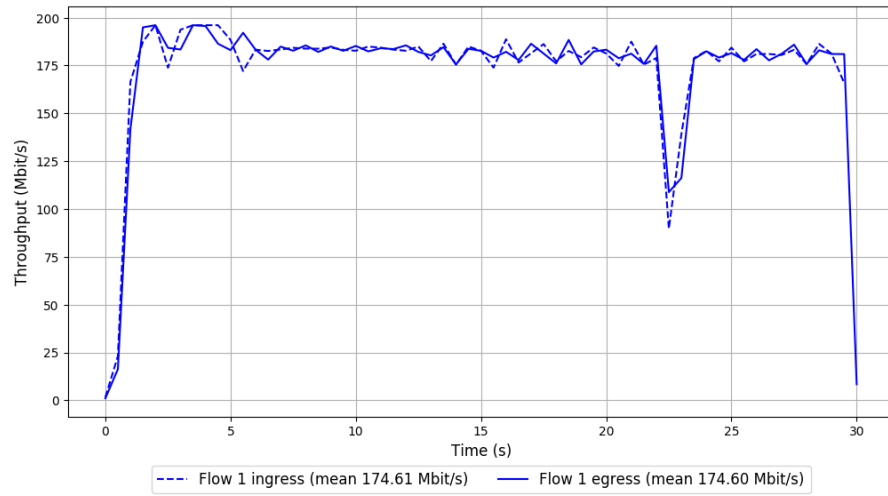
-- Flow 1:

Average throughput: 174.60 Mbit/s

95th percentile per-packet one-way delay: 70.102 ms

Loss rate: 0.01%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-02-16 18:40:59

End at: 2018-02-16 18:41:29

Below is generated by plot.py at 2018-02-16 21:22:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 173.56 Mbit/s

95th percentile per-packet one-way delay: 70.200 ms

Loss rate: 0.01%

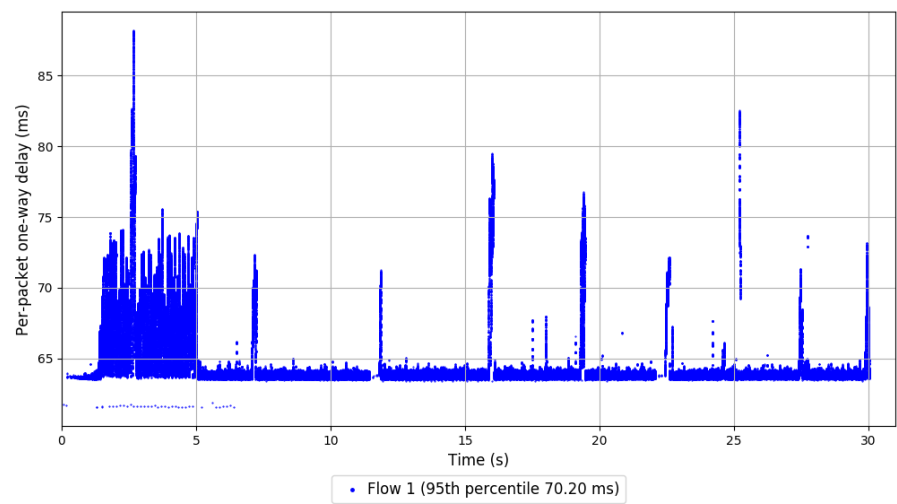
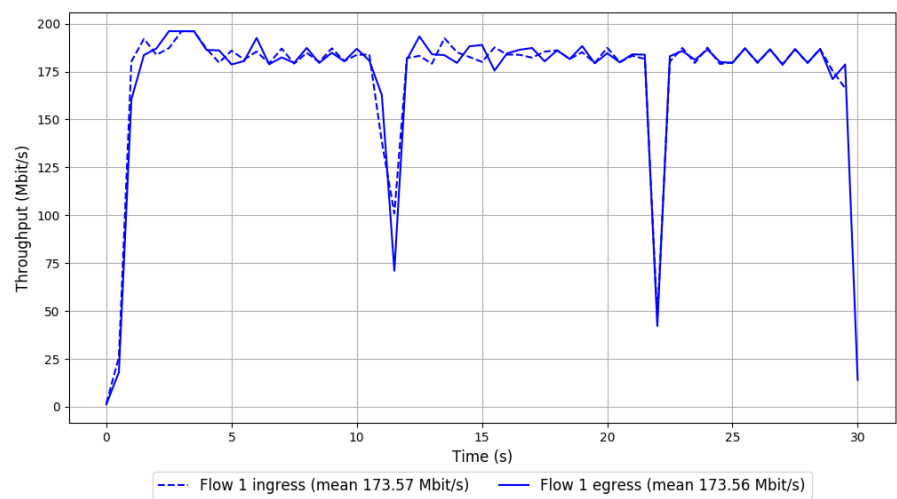
-- Flow 1:

Average throughput: 173.56 Mbit/s

95th percentile per-packet one-way delay: 70.200 ms

Loss rate: 0.01%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-02-16 18:55:40

End at: 2018-02-16 18:56:10

Below is generated by plot.py at 2018-02-16 21:22:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 177.60 Mbit/s

95th percentile per-packet one-way delay: 69.170 ms

Loss rate: 0.00%

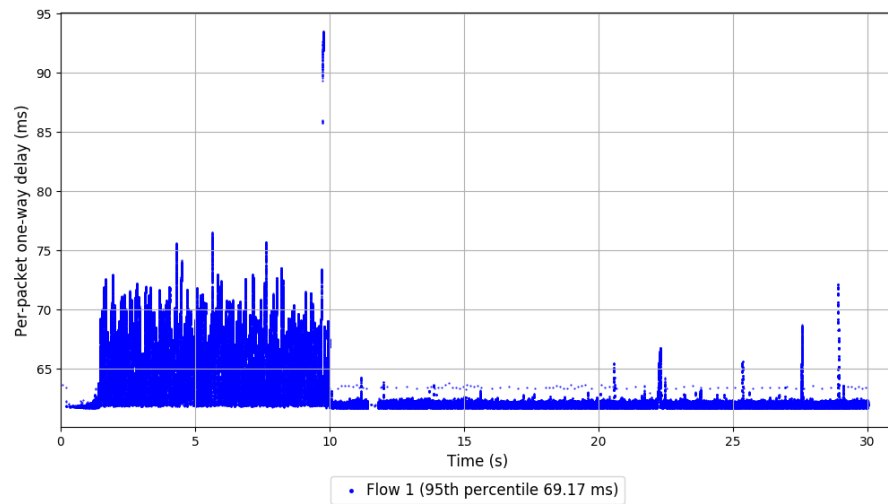
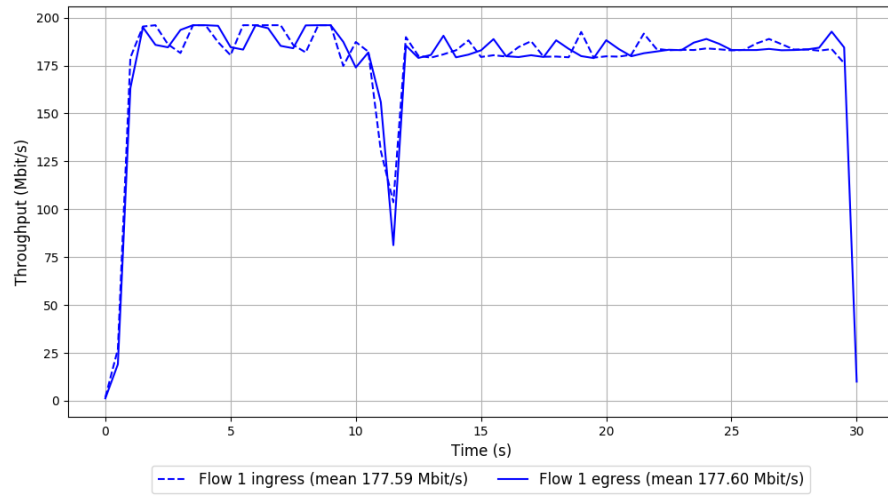
-- Flow 1:

Average throughput: 177.60 Mbit/s

95th percentile per-packet one-way delay: 69.170 ms

Loss rate: 0.00%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-02-16 19:10:17

End at: 2018-02-16 19:10:47

Below is generated by plot.py at 2018-02-16 21:25:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 180.46 Mbit/s

95th percentile per-packet one-way delay: 70.808 ms

Loss rate: 0.00%

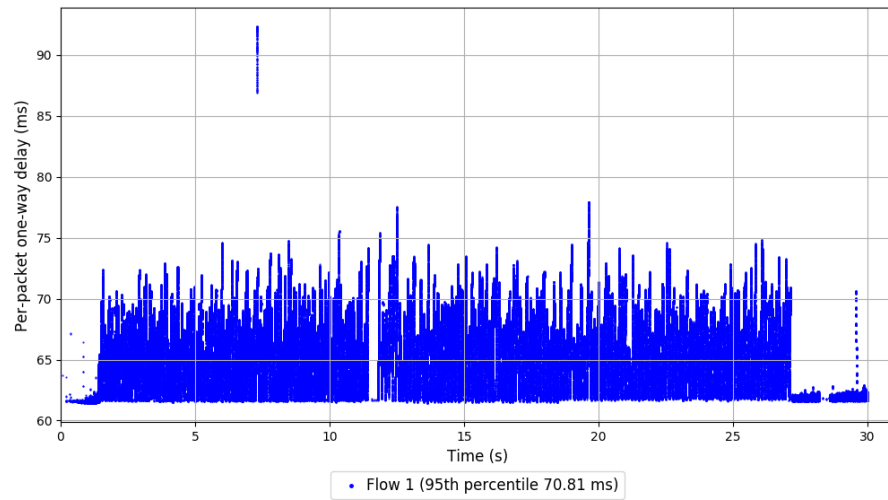
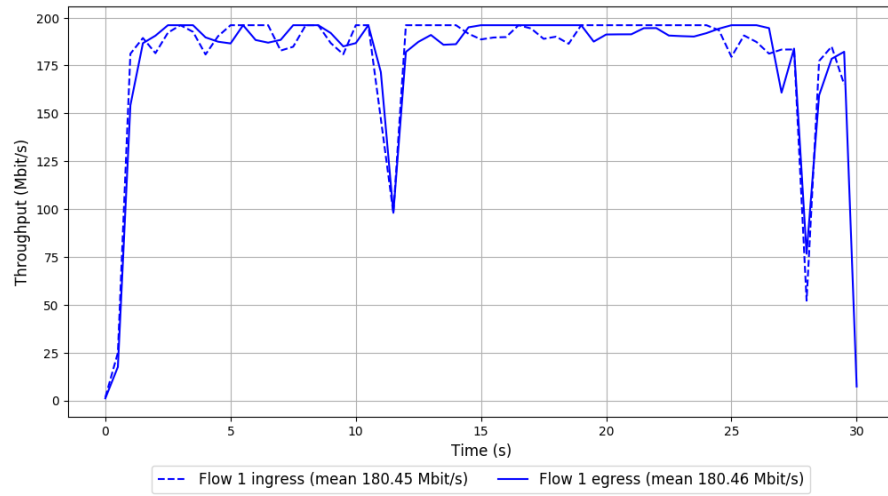
-- Flow 1:

Average throughput: 180.46 Mbit/s

95th percentile per-packet one-way delay: 70.808 ms

Loss rate: 0.00%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-02-16 19:25:16

End at: 2018-02-16 19:25:47

Below is generated by plot.py at 2018-02-16 21:25:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 176.85 Mbit/s

95th percentile per-packet one-way delay: 71.760 ms

Loss rate: 0.00%

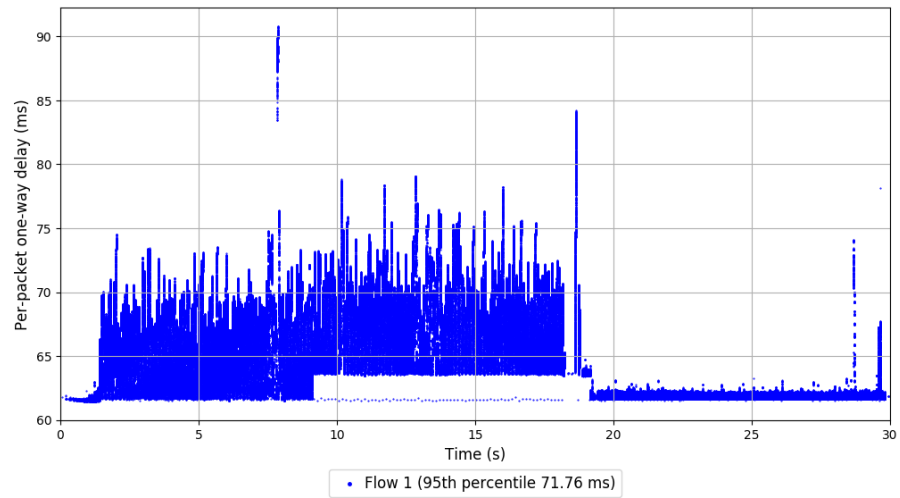
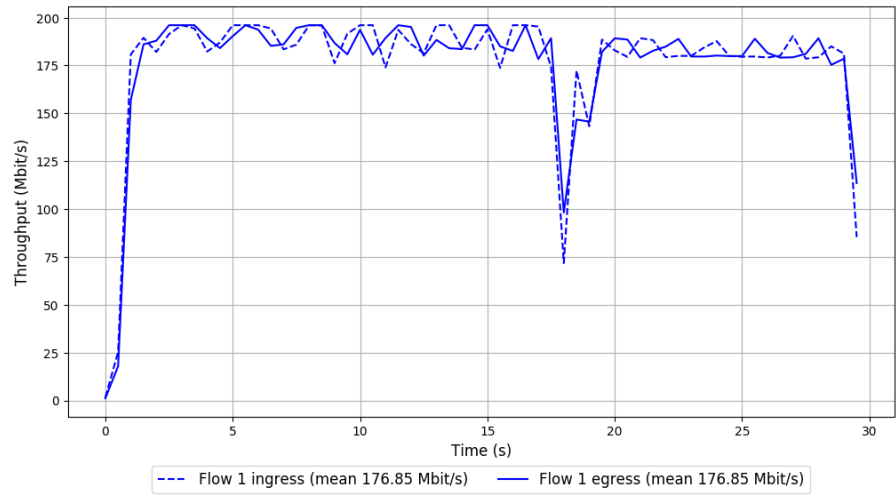
-- Flow 1:

Average throughput: 176.85 Mbit/s

95th percentile per-packet one-way delay: 71.760 ms

Loss rate: 0.00%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-02-16 17:17:21

End at: 2018-02-16 17:17:51

Below is generated by plot.py at 2018-02-16 21:25:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 182.46 Mbit/s

95th percentile per-packet one-way delay: 74.765 ms

Loss rate: 0.08%

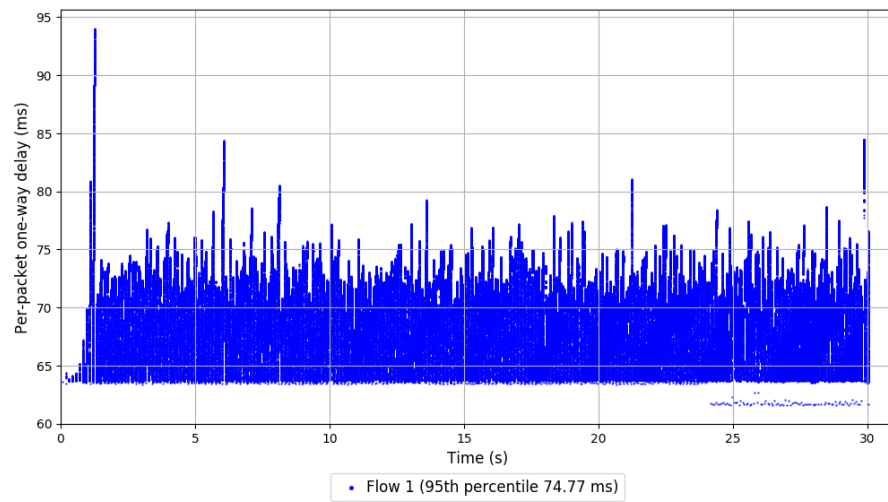
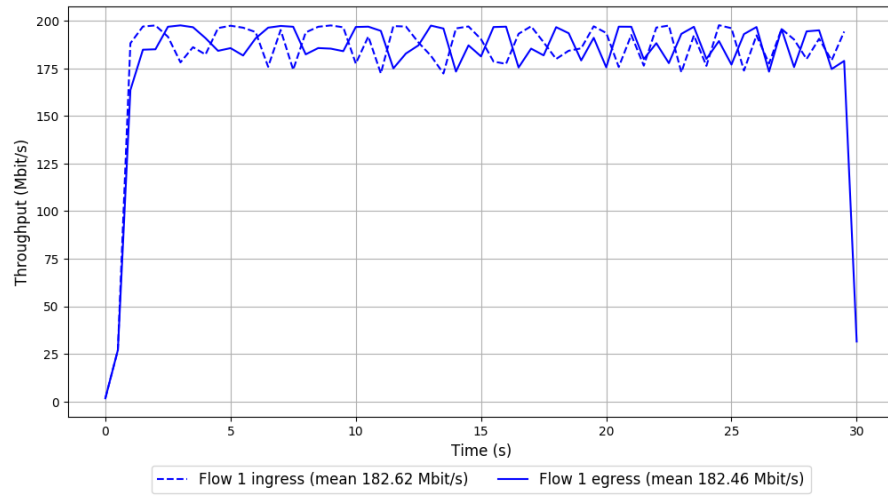
-- Flow 1:

Average throughput: 182.46 Mbit/s

95th percentile per-packet one-way delay: 74.765 ms

Loss rate: 0.08%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-02-16 17:32:14

End at: 2018-02-16 17:32:44

Below is generated by plot.py at 2018-02-16 21:25:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 141.27 Mbit/s

95th percentile per-packet one-way delay: 70.391 ms

Loss rate: 0.00%

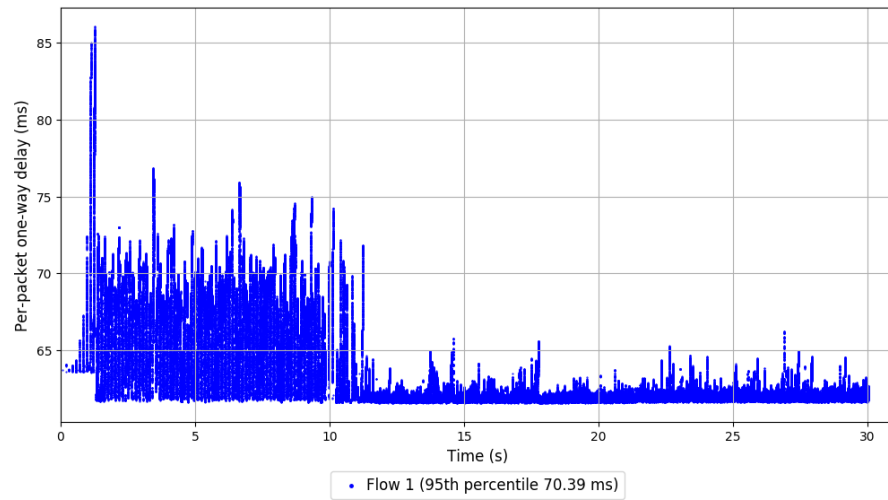
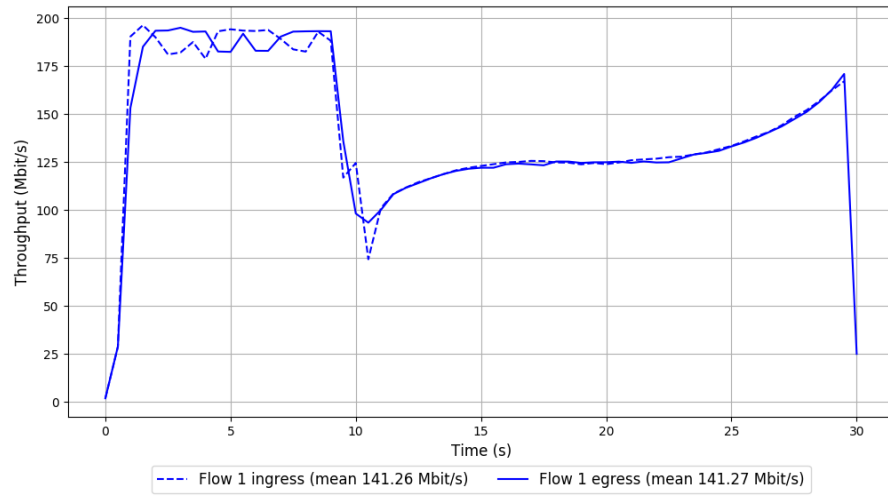
-- Flow 1:

Average throughput: 141.27 Mbit/s

95th percentile per-packet one-way delay: 70.391 ms

Loss rate: 0.00%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-02-16 17:47:22

End at: 2018-02-16 17:47:52

Below is generated by plot.py at 2018-02-16 21:25:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 183.16 Mbit/s

95th percentile per-packet one-way delay: 73.244 ms

Loss rate: 0.06%

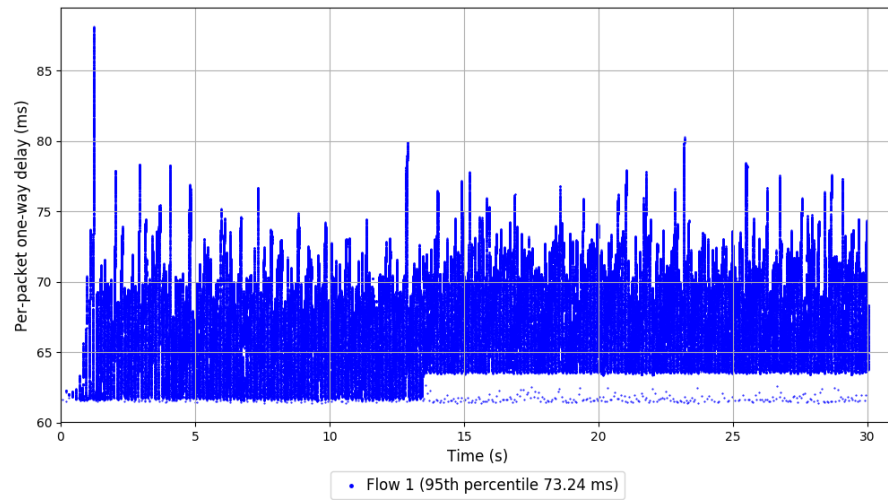
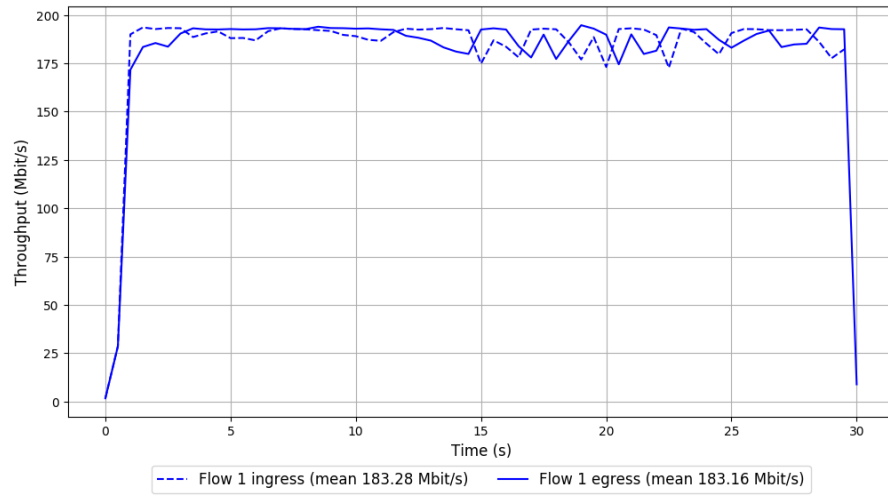
-- Flow 1:

Average throughput: 183.16 Mbit/s

95th percentile per-packet one-way delay: 73.244 ms

Loss rate: 0.06%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-02-16 18:02:13

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

Below is generated by plot.py at 2018-02-16 21:25:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 181.56 Mbit/s

95th percentile per-packet one-way delay: 73.556 ms

Loss rate: 0.00%

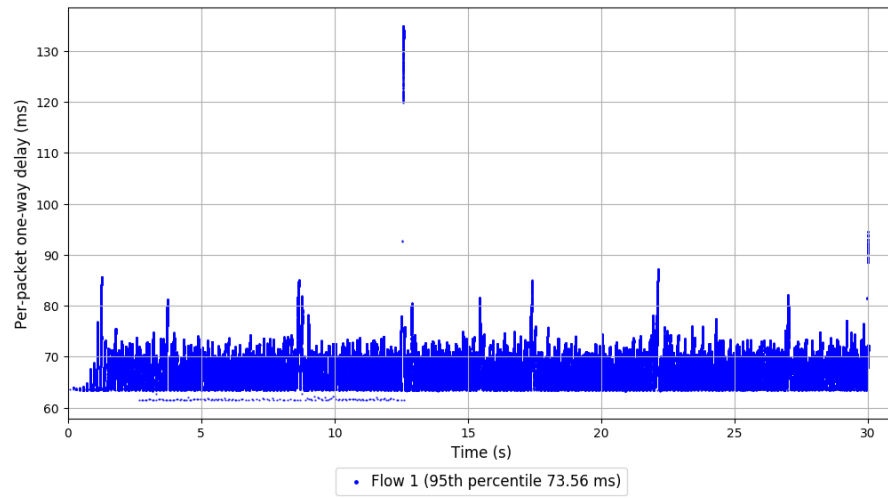
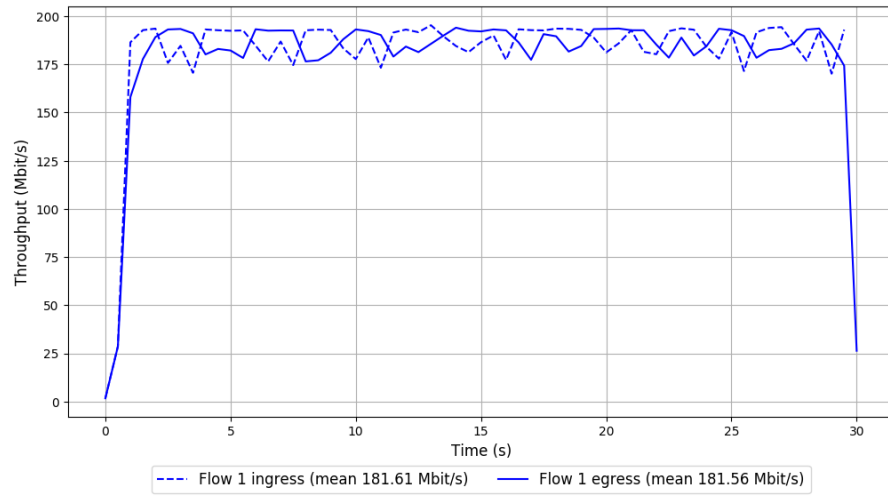
-- Flow 1:

Average throughput: 181.56 Mbit/s

95th percentile per-packet one-way delay: 73.556 ms

Loss rate: 0.00%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-02-16 18:17:00

End at: 2018-02-16 18:17:30

Below is generated by plot.py at 2018-02-16 21:25:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 129.11 Mbit/s

95th percentile per-packet one-way delay: 72.239 ms

Loss rate: 0.00%

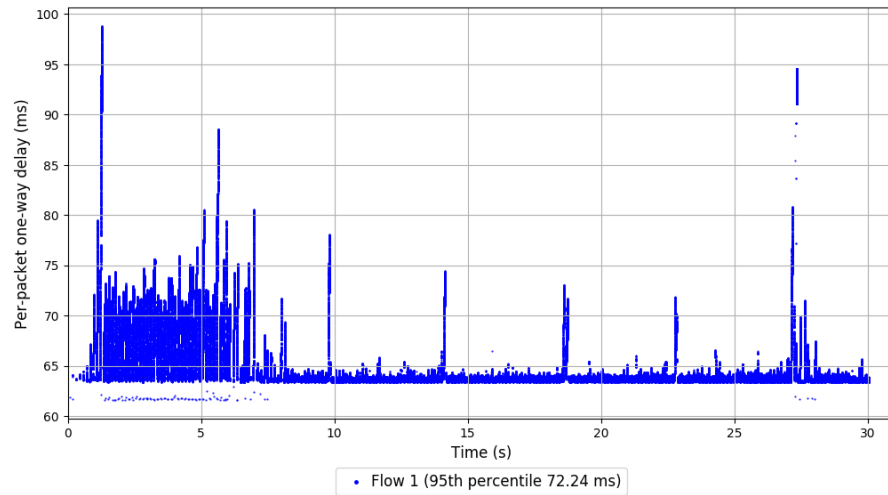
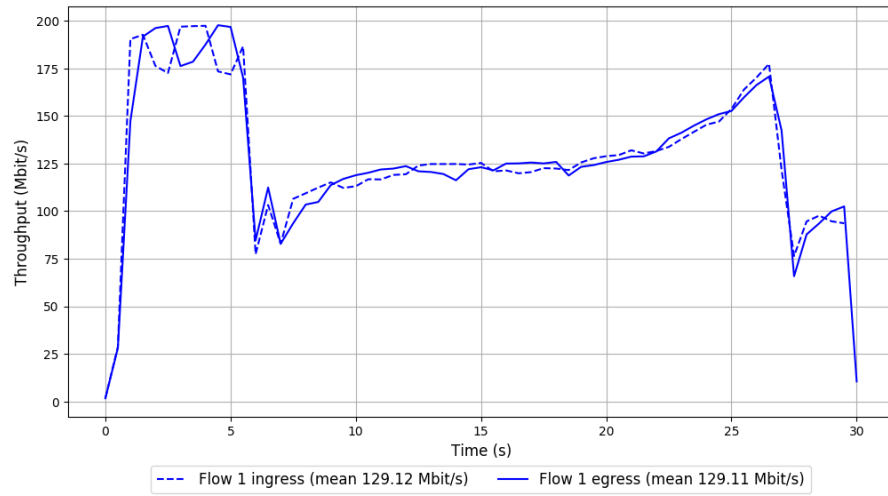
-- Flow 1:

Average throughput: 129.11 Mbit/s

95th percentile per-packet one-way delay: 72.239 ms

Loss rate: 0.00%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-02-16 18:31:57

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

Below is generated by plot.py at 2018-02-16 21:25:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 180.98 Mbit/s

95th percentile per-packet one-way delay: 74.531 ms

Loss rate: 0.06%

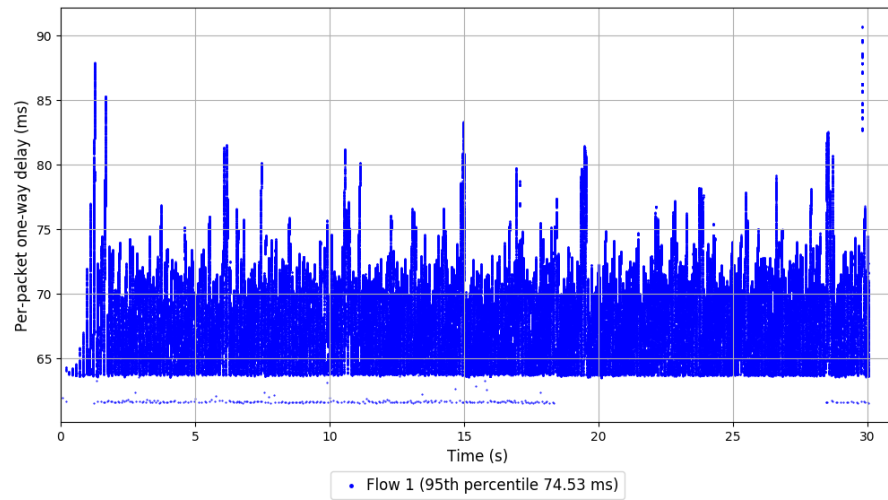
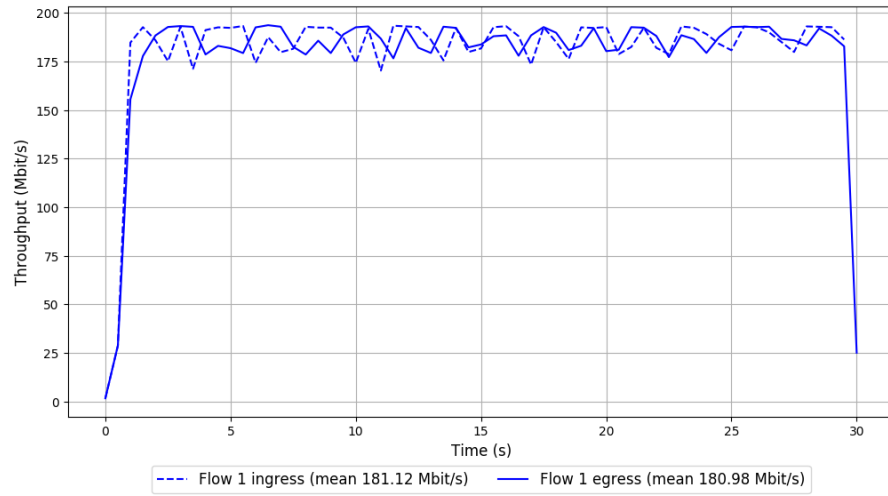
-- Flow 1:

Average throughput: 180.98 Mbit/s

95th percentile per-packet one-way delay: 74.531 ms

Loss rate: 0.06%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-02-16 18:46:44

End at: 2018-02-16 18:47:14

Below is generated by plot.py at 2018-02-16 21:27:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 138.09 Mbit/s

95th percentile per-packet one-way delay: 74.238 ms

Loss rate: 0.14%

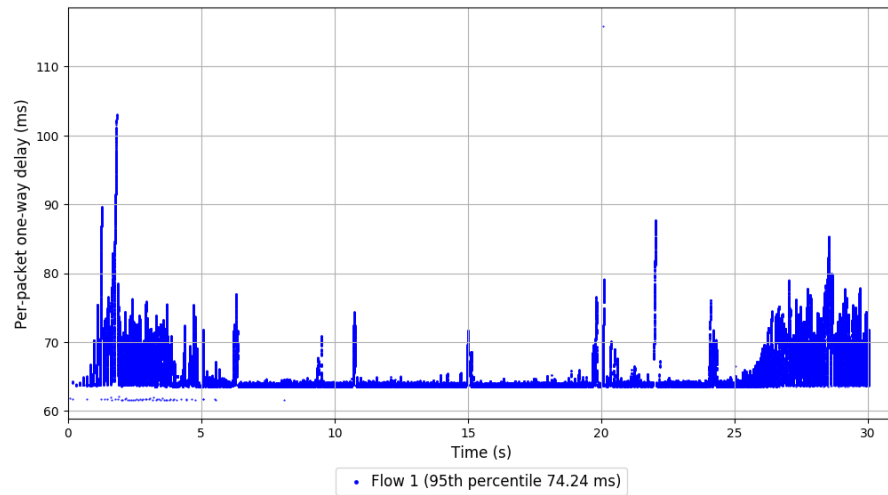
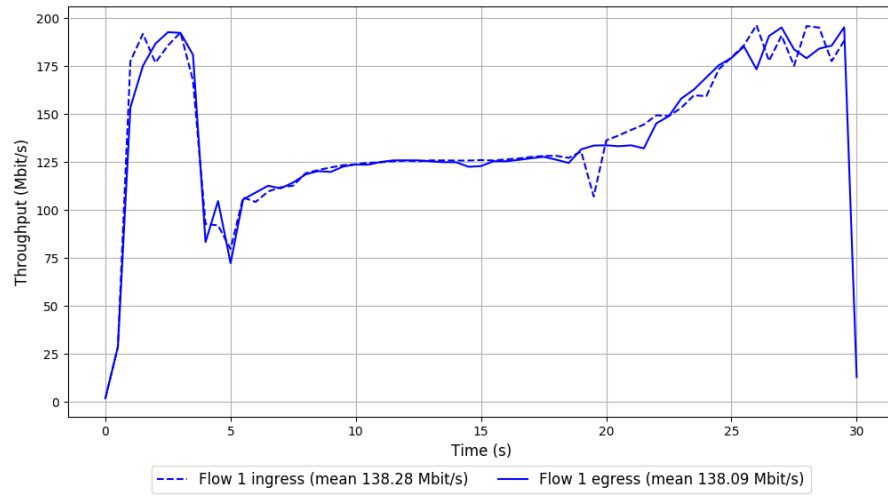
-- Flow 1:

Average throughput: 138.09 Mbit/s

95th percentile per-packet one-way delay: 74.238 ms

Loss rate: 0.14%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-02-16 19:01:36

End at: 2018-02-16 19:02:06

Below is generated by plot.py at 2018-02-16 21:27:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 146.81 Mbit/s

95th percentile per-packet one-way delay: 70.427 ms

Loss rate: 0.01%

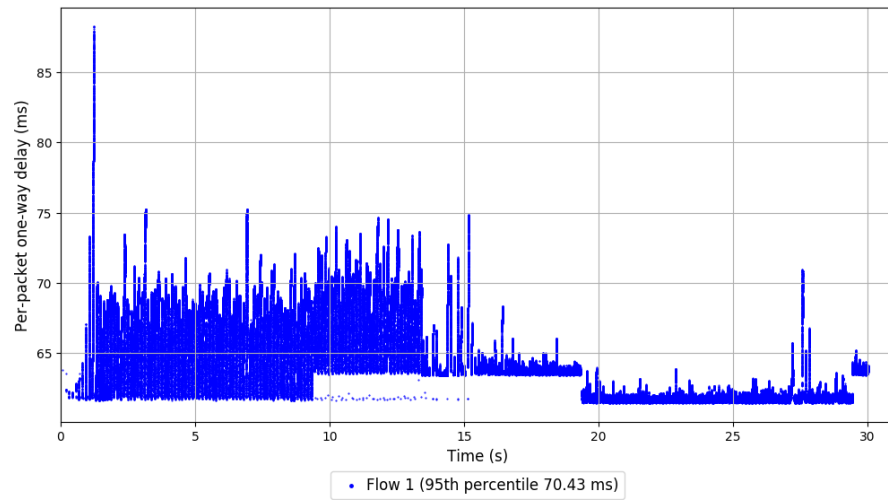
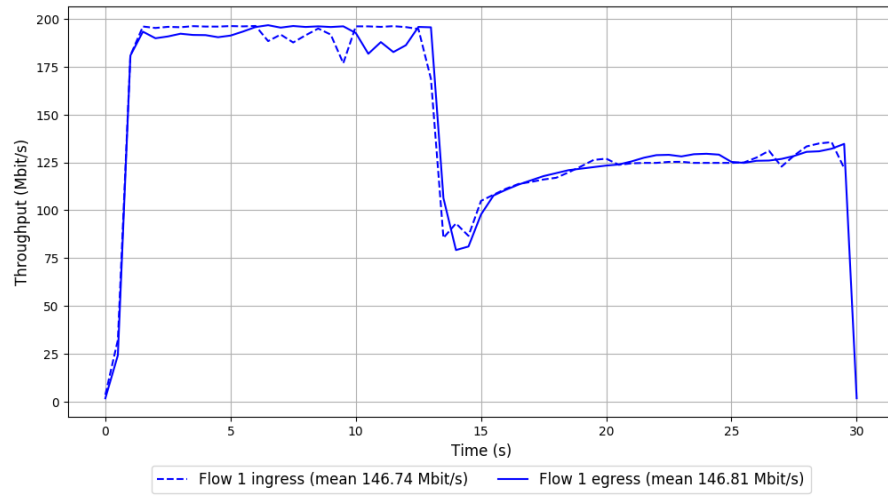
-- Flow 1:

Average throughput: 146.81 Mbit/s

95th percentile per-packet one-way delay: 70.427 ms

Loss rate: 0.01%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-02-16 19:16:15

End at: 2018-02-16 19:16:45

Below is generated by plot.py at 2018-02-16 21:28:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 183.35 Mbit/s

95th percentile per-packet one-way delay: 73.962 ms

Loss rate: 0.04%

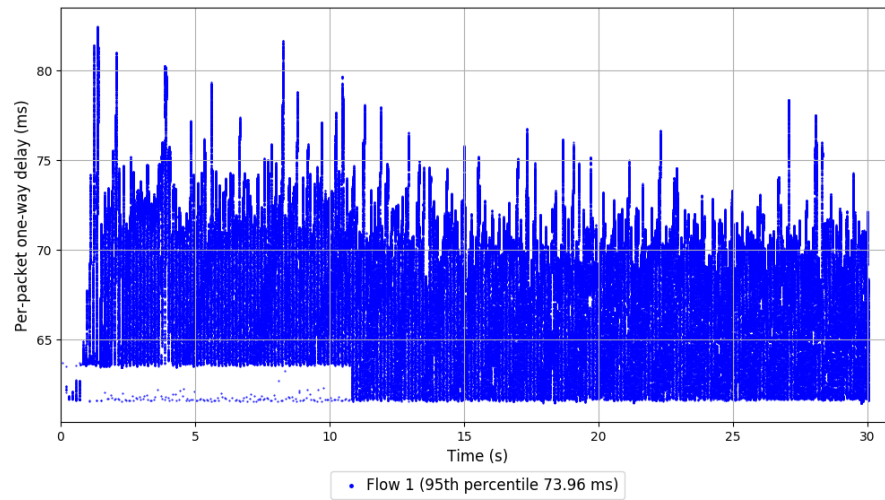
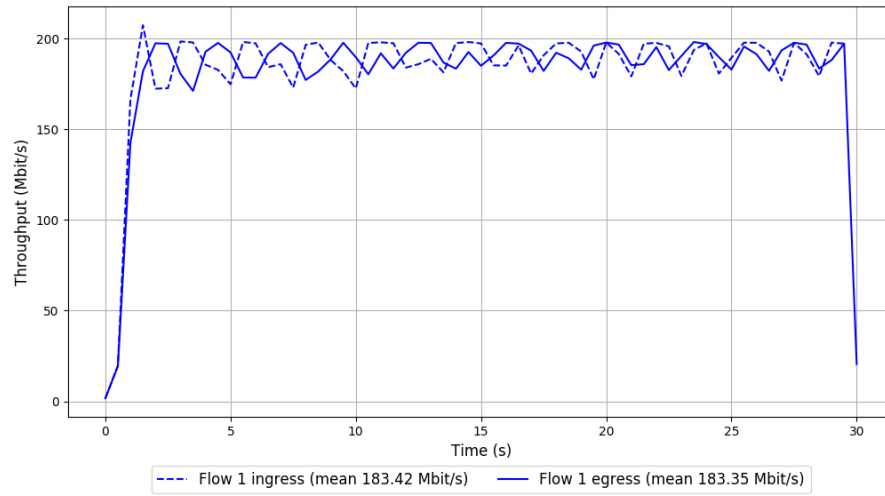
-- Flow 1:

Average throughput: 183.35 Mbit/s

95th percentile per-packet one-way delay: 73.962 ms

Loss rate: 0.04%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-02-16 19:31:10

End at: 2018-02-16 19:31:40

Below is generated by plot.py at 2018-02-16 21:28:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 164.28 Mbit/s

95th percentile per-packet one-way delay: 72.323 ms

Loss rate: 0.00%

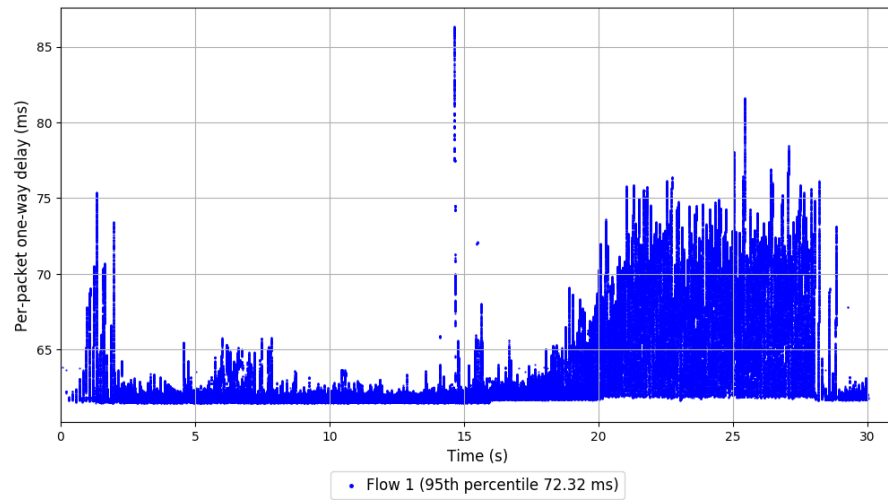
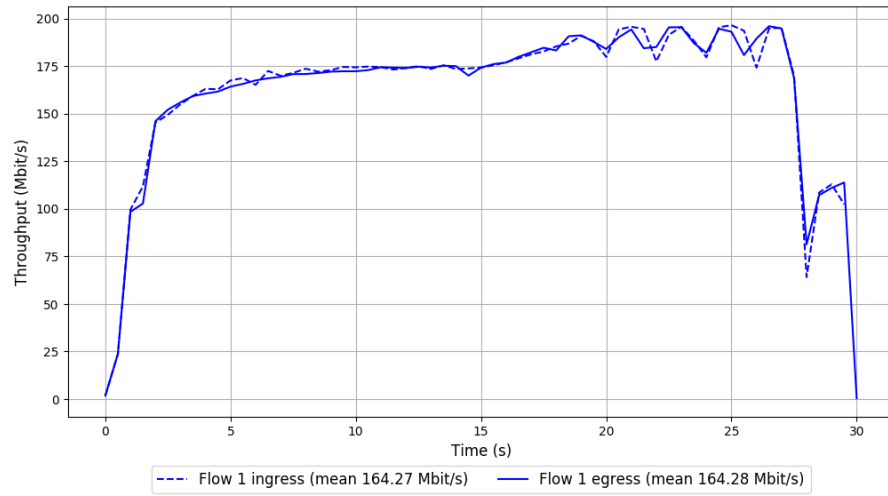
-- Flow 1:

Average throughput: 164.28 Mbit/s

95th percentile per-packet one-way delay: 72.323 ms

Loss rate: 0.00%

Run 10: Report of TCP Cubic — Data Link

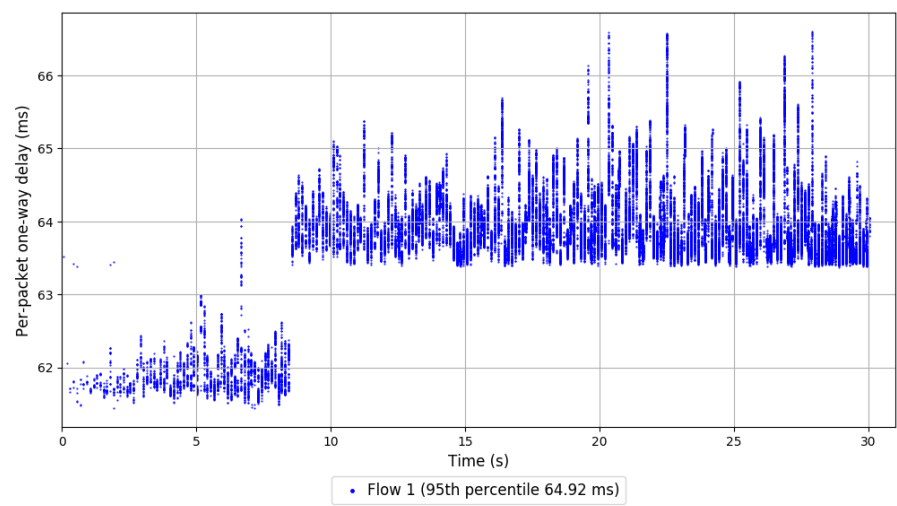
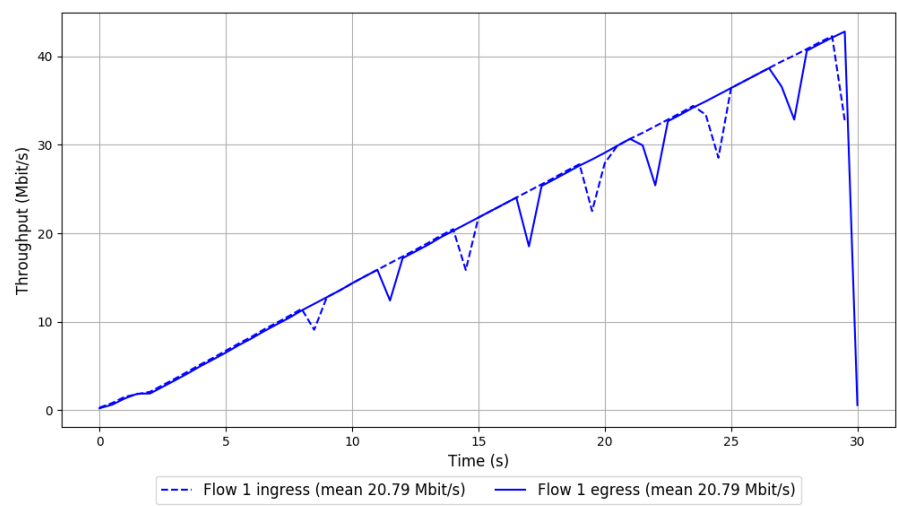


```
Run 1: Statistics of LEDBAT

Start at: 2018-02-16 17:10:07
End at: 2018-02-16 17:10:37

# Below is generated by plot.py at 2018-02-16 21:28:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 20.79 Mbit/s
95th percentile per-packet one-way delay: 64.923 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 20.79 Mbit/s
95th percentile per-packet one-way delay: 64.923 ms
Loss rate: 0.00%
```

Run 1: Report of LEDBAT — Data Link

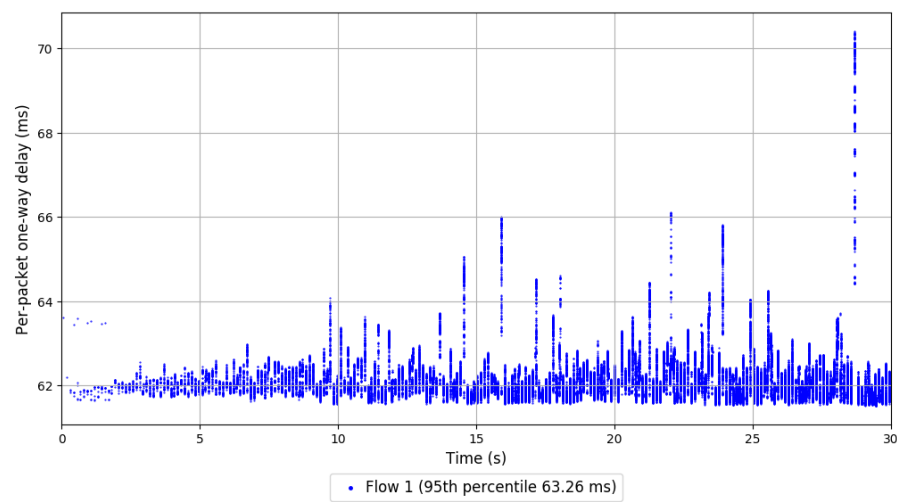
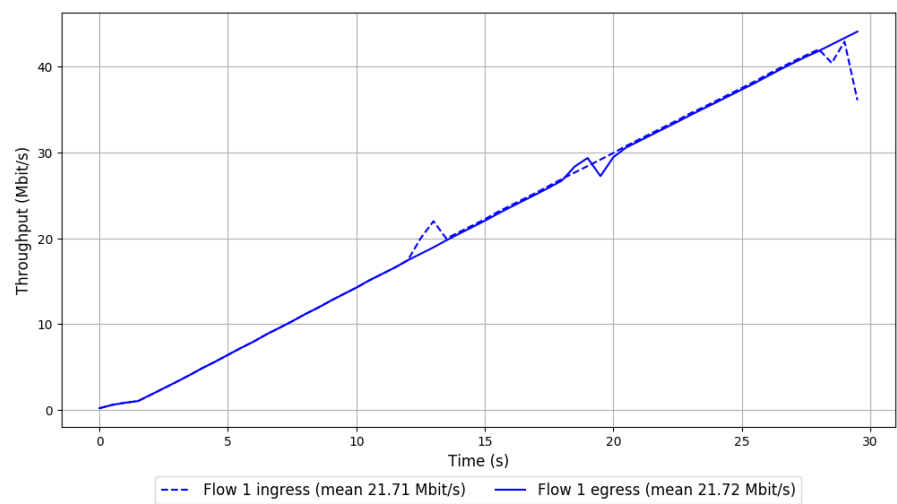


```
Run 2: Statistics of LEDBAT

Start at: 2018-02-16 17:24:53
End at: 2018-02-16 17:25:23

# Below is generated by plot.py at 2018-02-16 21:28:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 21.72 Mbit/s
95th percentile per-packet one-way delay: 63.263 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 21.72 Mbit/s
95th percentile per-packet one-way delay: 63.263 ms
Loss rate: 0.00%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-02-16 17:39:53

End at: 2018-02-16 17:40:23

Below is generated by plot.py at 2018-02-16 21:28:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 22.41 Mbit/s

95th percentile per-packet one-way delay: 64.494 ms

Loss rate: 0.00%

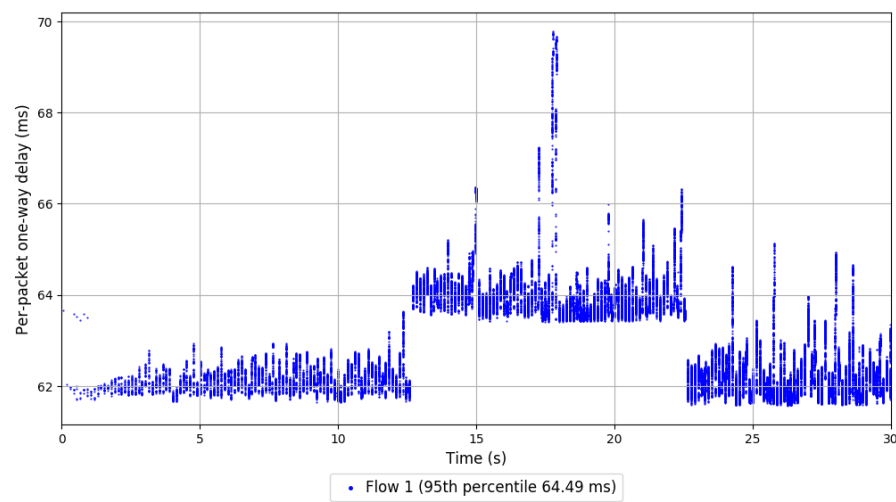
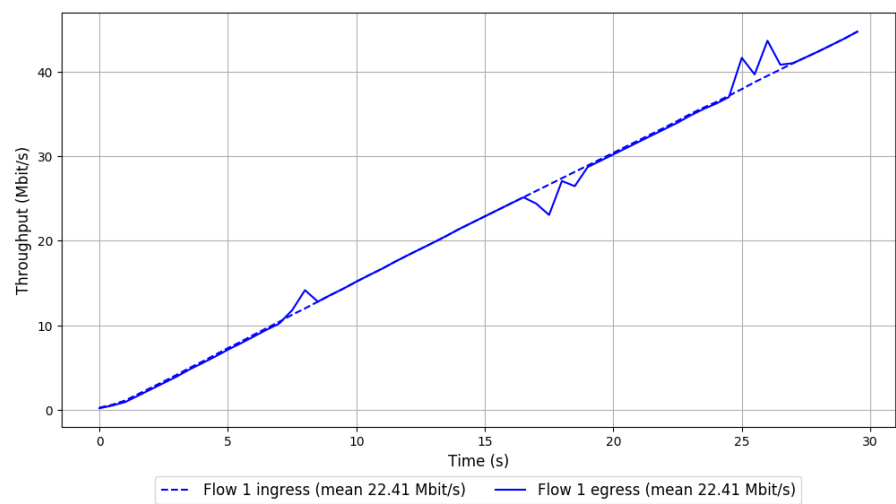
-- Flow 1:

Average throughput: 22.41 Mbit/s

95th percentile per-packet one-way delay: 64.494 ms

Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-02-16 17:54:53

End at: 2018-02-16 17:55:23

Below is generated by plot.py at 2018-02-16 21:28:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 21.97 Mbit/s

95th percentile per-packet one-way delay: 65.063 ms

Loss rate: 0.00%

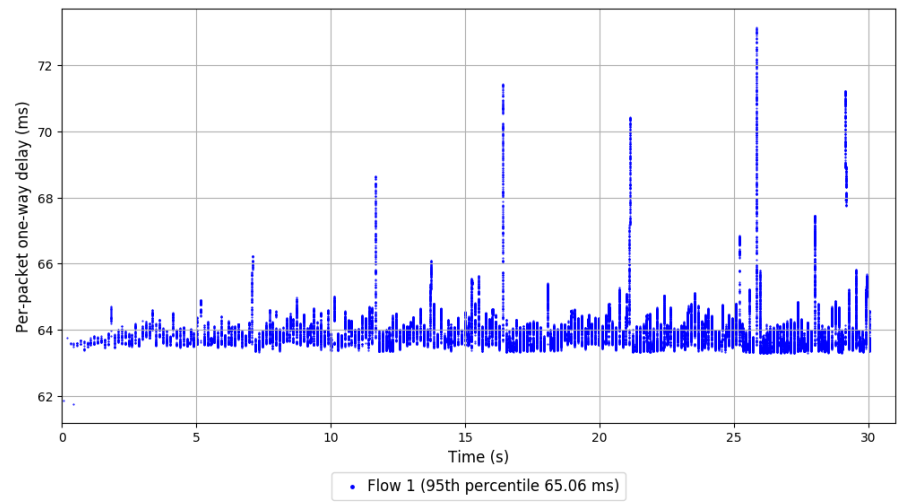
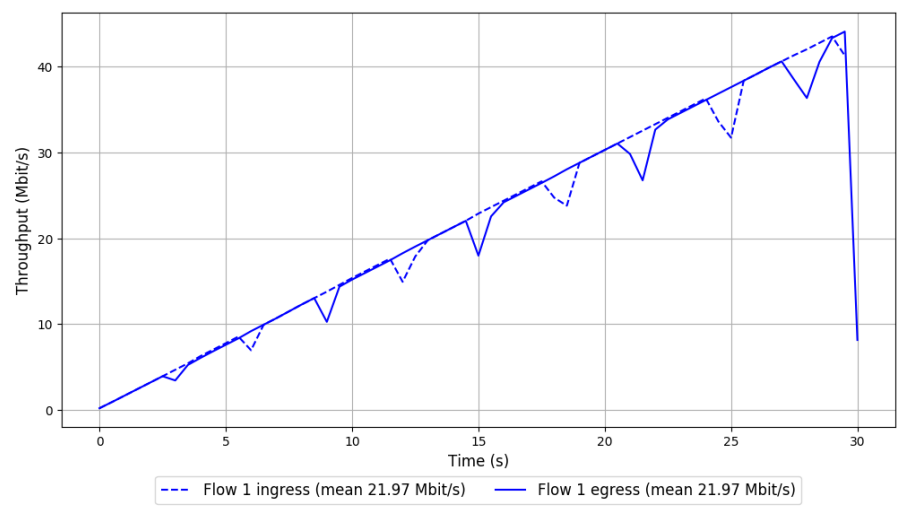
-- Flow 1:

Average throughput: 21.97 Mbit/s

95th percentile per-packet one-way delay: 65.063 ms

Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-02-16 18:09:43

End at: 2018-02-16 18:10:13

Below is generated by plot.py at 2018-02-16 21:28:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 22.27 Mbit/s

95th percentile per-packet one-way delay: 64.914 ms

Loss rate: 0.00%

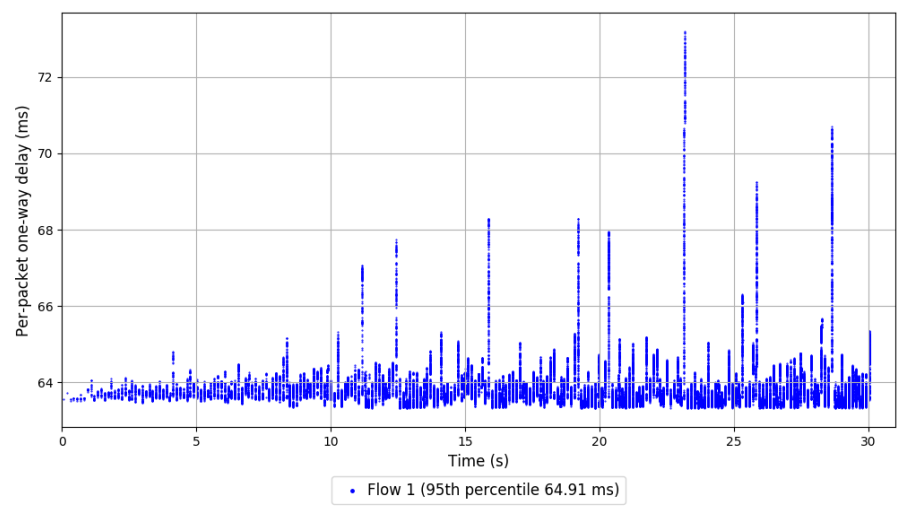
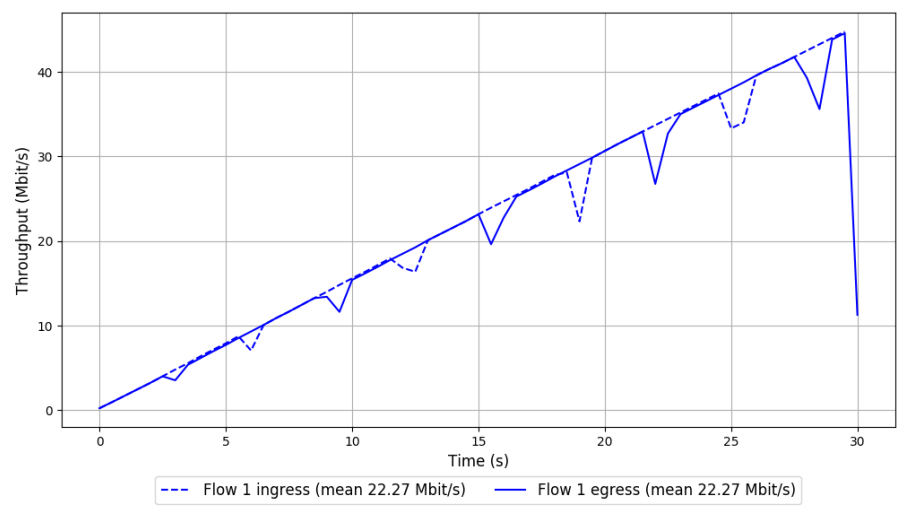
-- Flow 1:

Average throughput: 22.27 Mbit/s

95th percentile per-packet one-way delay: 64.914 ms

Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-02-16 18:24:34

End at: 2018-02-16 18:25:04

Below is generated by plot.py at 2018-02-16 21:28:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 22.34 Mbit/s

95th percentile per-packet one-way delay: 65.090 ms

Loss rate: 0.00%

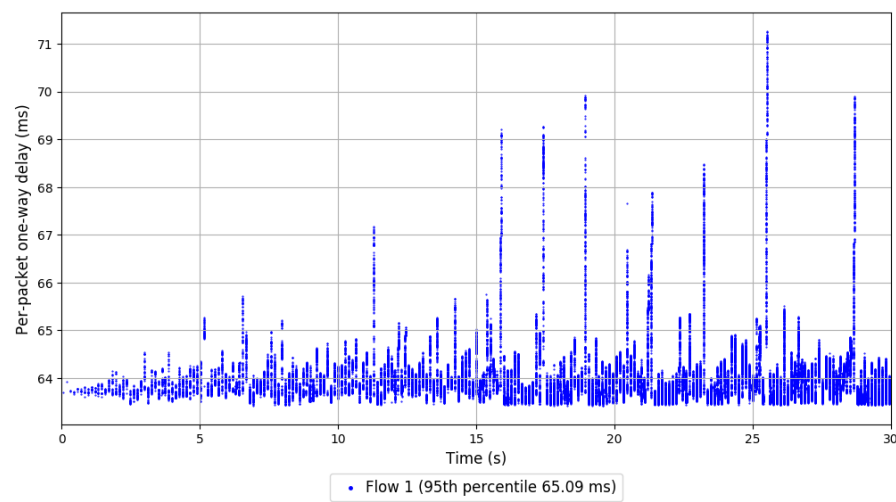
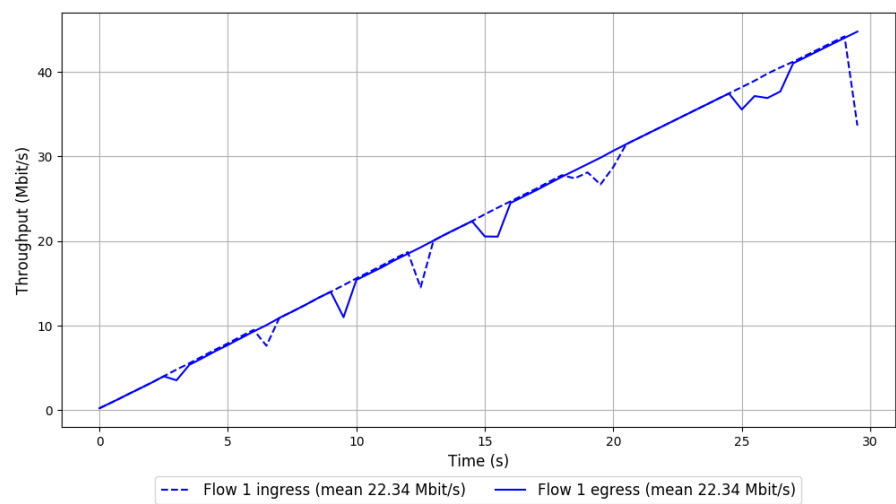
-- Flow 1:

Average throughput: 22.34 Mbit/s

95th percentile per-packet one-way delay: 65.090 ms

Loss rate: 0.00%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-02-16 18:39:34

End at: 2018-02-16 18:40:04

Below is generated by plot.py at 2018-02-16 21:28:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 22.11 Mbit/s

95th percentile per-packet one-way delay: 65.117 ms

Loss rate: 0.00%

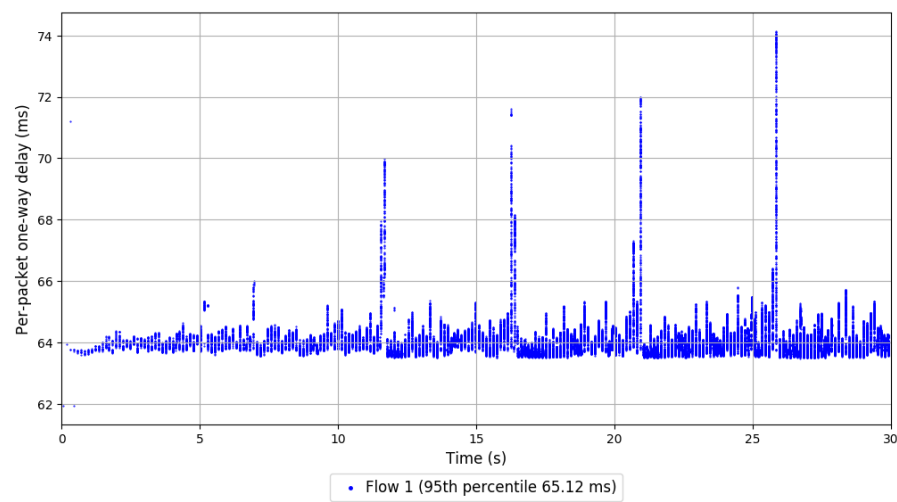
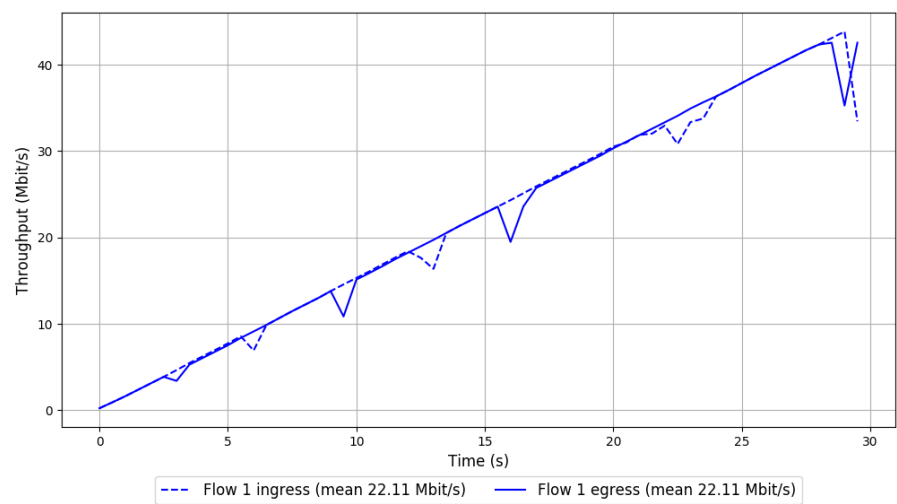
-- Flow 1:

Average throughput: 22.11 Mbit/s

95th percentile per-packet one-way delay: 65.117 ms

Loss rate: 0.00%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-02-16 18:54:15

End at: 2018-02-16 18:54:45

Below is generated by plot.py at 2018-02-16 21:28:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 22.86 Mbit/s

95th percentile per-packet one-way delay: 65.078 ms

Loss rate: 0.00%

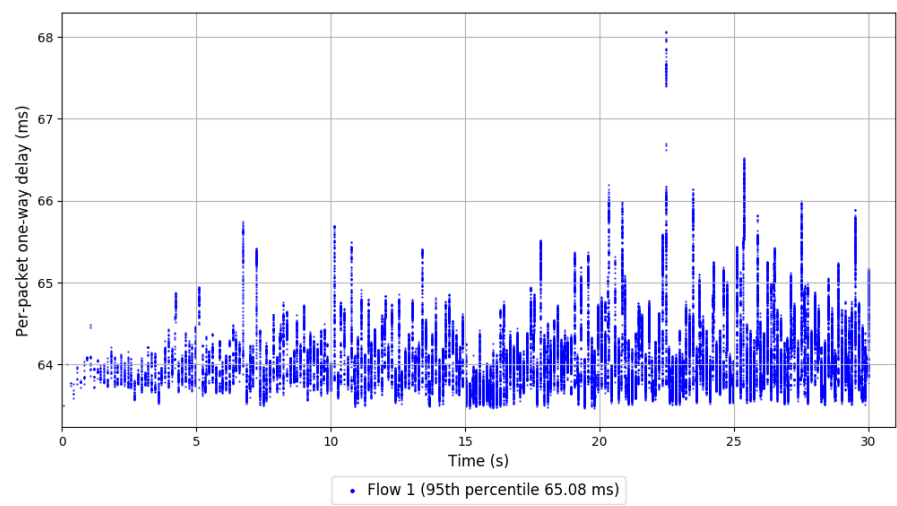
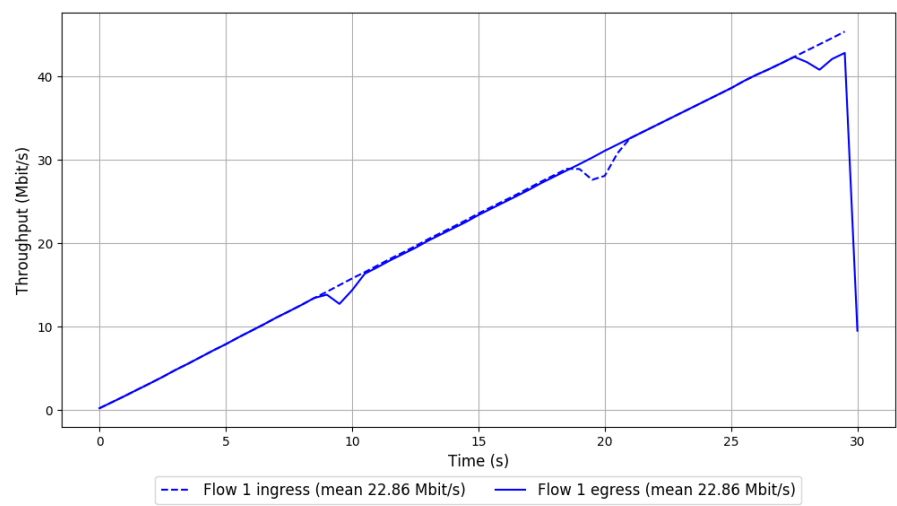
-- Flow 1:

Average throughput: 22.86 Mbit/s

95th percentile per-packet one-way delay: 65.078 ms

Loss rate: 0.00%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-02-16 19:08:51

End at: 2018-02-16 19:09:21

Below is generated by plot.py at 2018-02-16 21:28:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 22.83 Mbit/s

95th percentile per-packet one-way delay: 64.502 ms

Loss rate: 0.00%

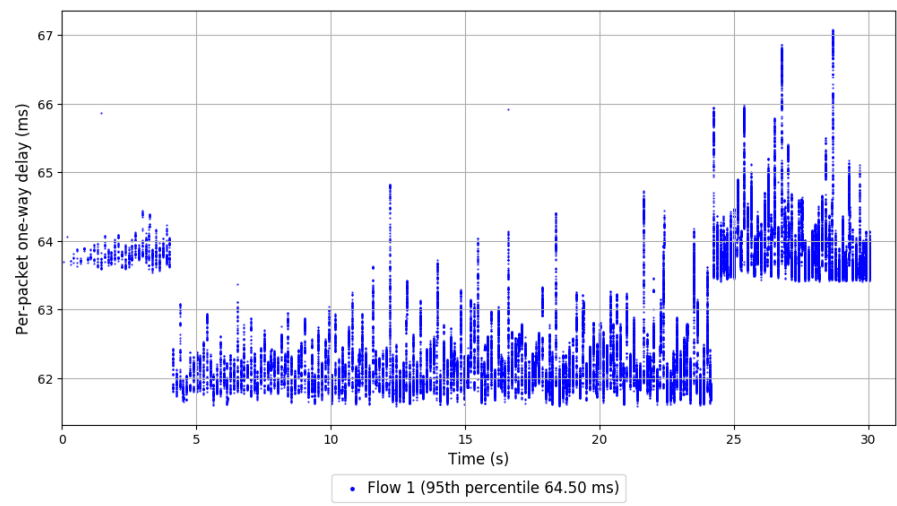
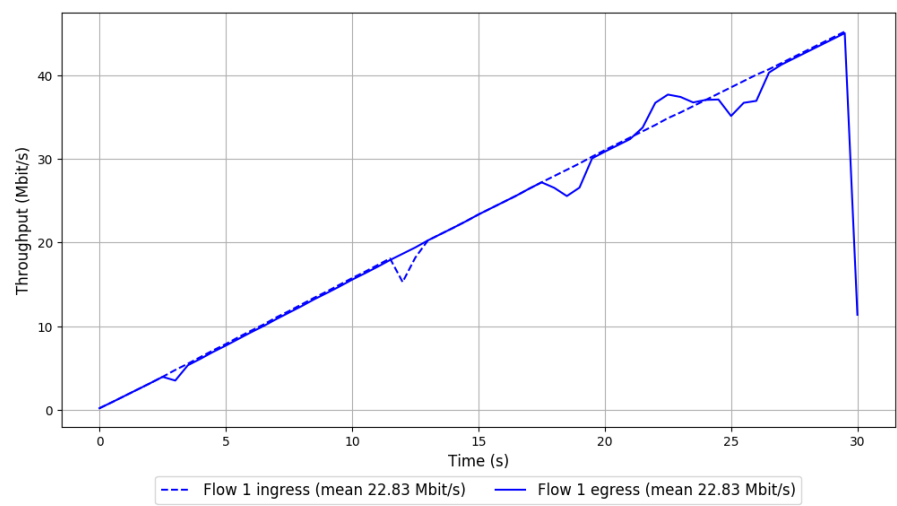
-- Flow 1:

Average throughput: 22.83 Mbit/s

95th percentile per-packet one-way delay: 64.502 ms

Loss rate: 0.00%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-02-16 19:23:52

End at: 2018-02-16 19:24:22

Below is generated by plot.py at 2018-02-16 21:28:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 21.04 Mbit/s

95th percentile per-packet one-way delay: 65.083 ms

Loss rate: 0.00%

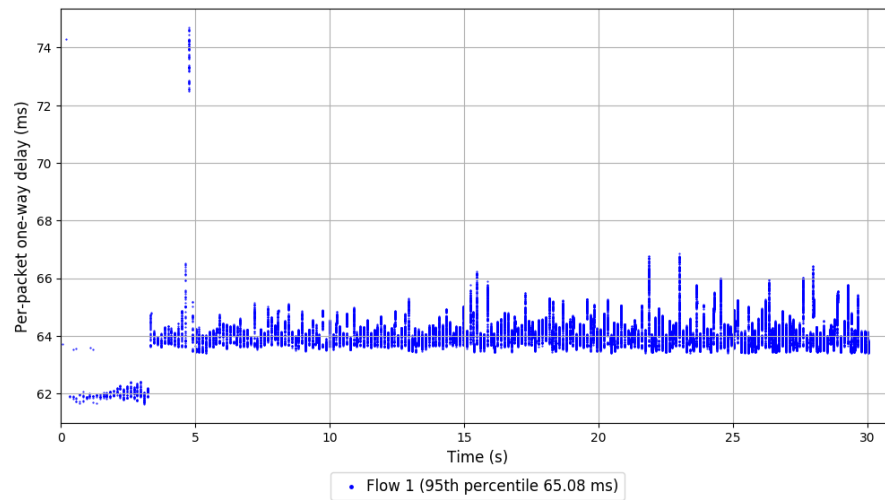
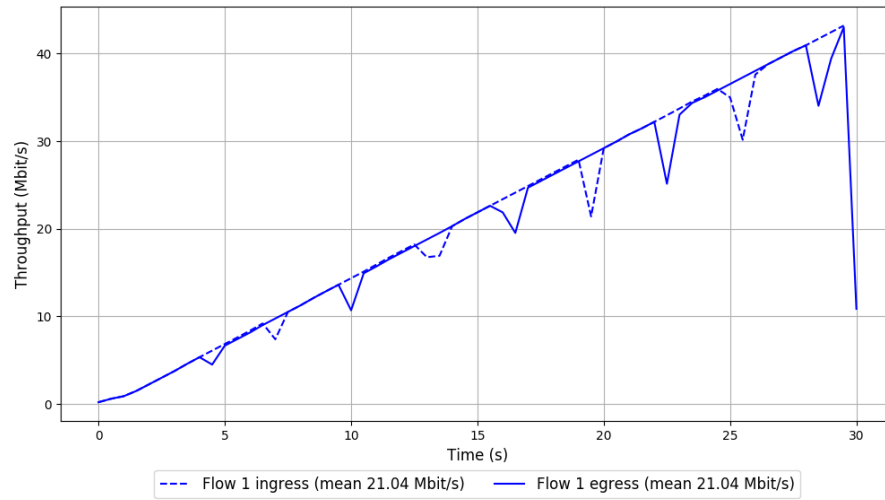
-- Flow 1:

Average throughput: 21.04 Mbit/s

95th percentile per-packet one-way delay: 65.083 ms

Loss rate: 0.00%

Run 10: Report of LEDBAT — Data Link



Run 1: Statistics of PCC

Start at: 2018-02-16 17:07:25

End at: 2018-02-16 17:07:55

Below is generated by plot.py at 2018-02-16 21:33:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 369.48 Mbit/s

95th percentile per-packet one-way delay: 100.070 ms

Loss rate: 0.13%

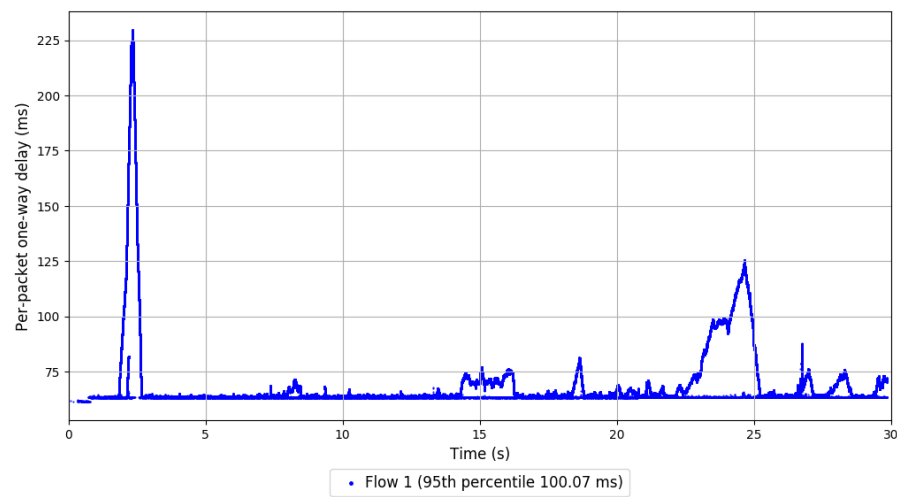
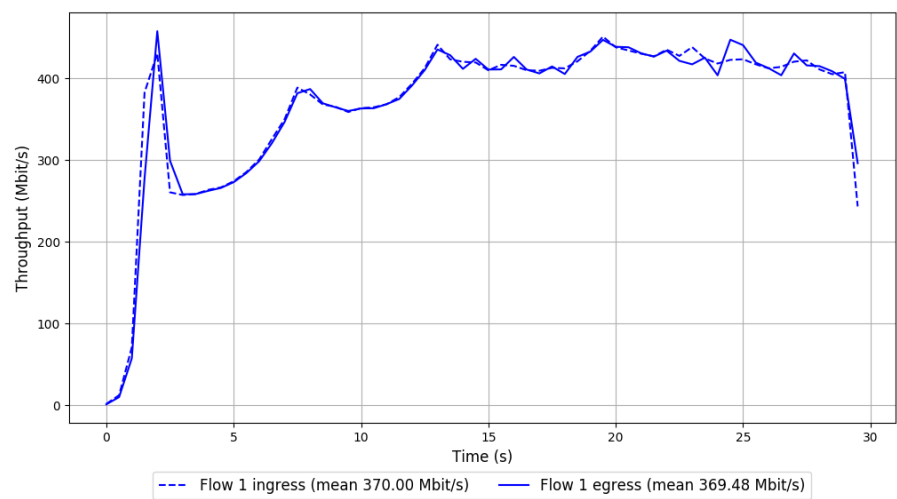
-- Flow 1:

Average throughput: 369.48 Mbit/s

95th percentile per-packet one-way delay: 100.070 ms

Loss rate: 0.13%

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2018-02-16 17:22:07

End at: 2018-02-16 17:22:37

Below is generated by plot.py at 2018-02-16 21:33:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 355.42 Mbit/s

95th percentile per-packet one-way delay: 85.394 ms

Loss rate: 0.00%

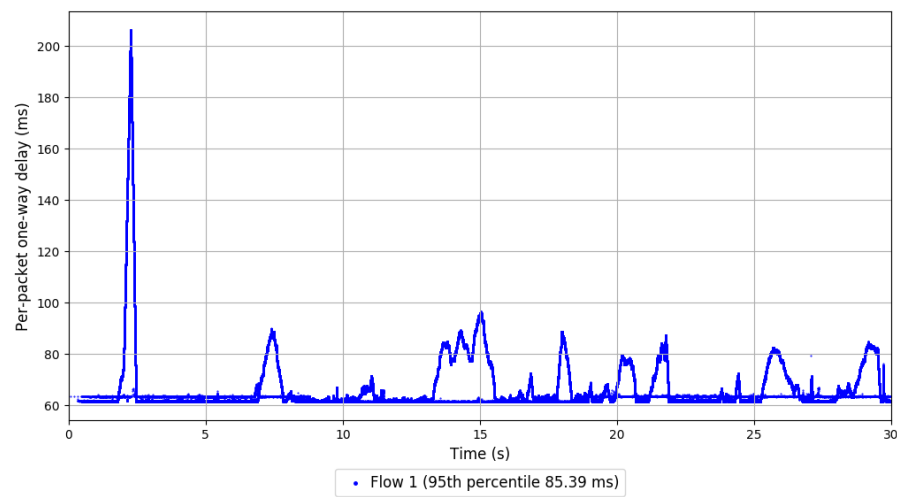
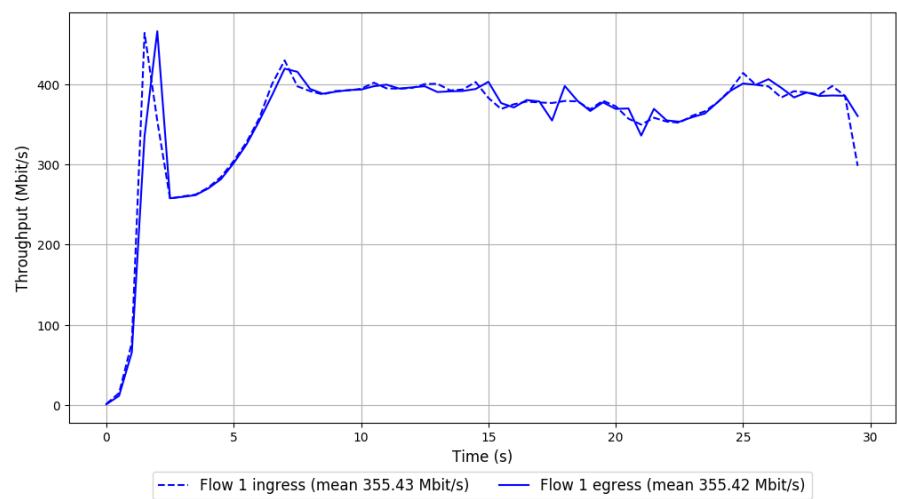
-- Flow 1:

Average throughput: 355.42 Mbit/s

95th percentile per-packet one-way delay: 85.394 ms

Loss rate: 0.00%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-02-16 17:37:06

End at: 2018-02-16 17:37:36

Below is generated by plot.py at 2018-02-16 21:34:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 383.01 Mbit/s

95th percentile per-packet one-way delay: 214.187 ms

Loss rate: 0.06%

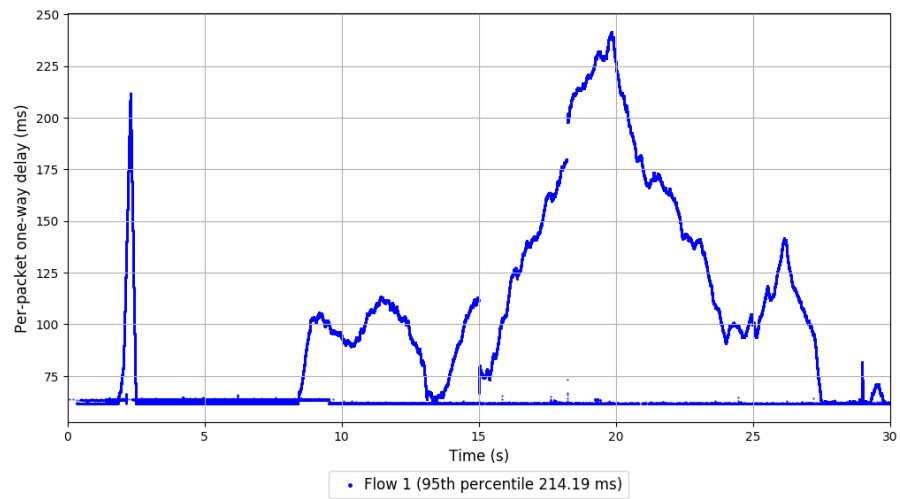
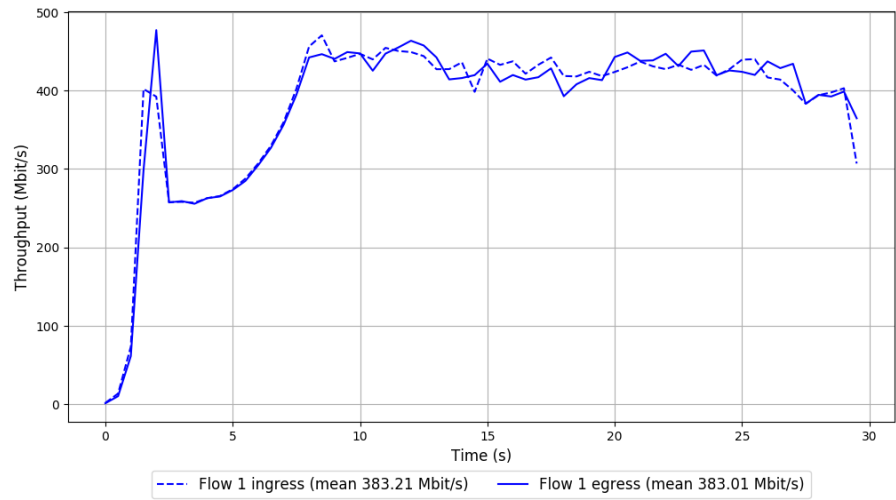
-- Flow 1:

Average throughput: 383.01 Mbit/s

95th percentile per-packet one-way delay: 214.187 ms

Loss rate: 0.06%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-02-16 17:52:09

End at: 2018-02-16 17:52:39

Below is generated by plot.py at 2018-02-16 21:34:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 330.18 Mbit/s

95th percentile per-packet one-way delay: 131.077 ms

Loss rate: 0.02%

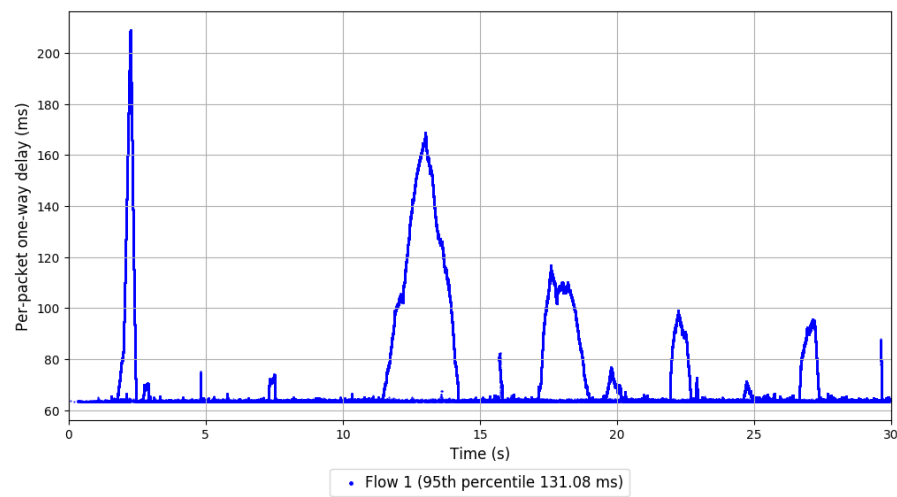
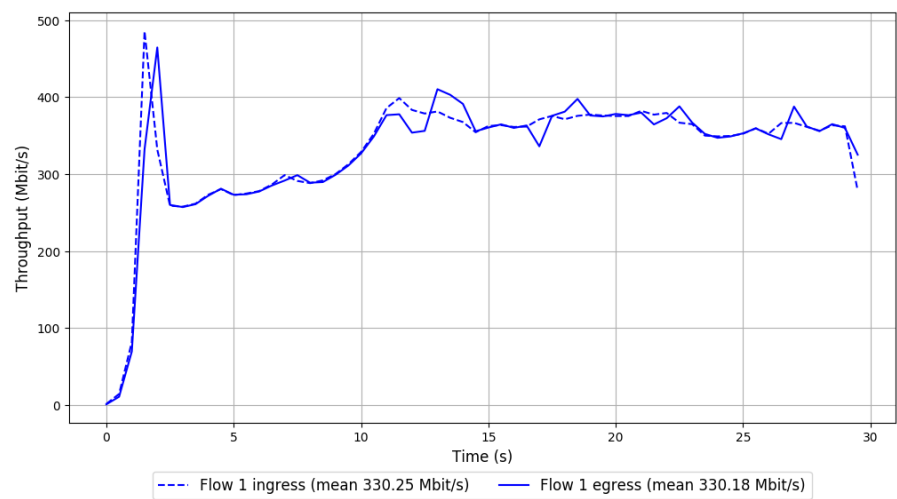
-- Flow 1:

Average throughput: 330.18 Mbit/s

95th percentile per-packet one-way delay: 131.077 ms

Loss rate: 0.02%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-02-16 18:07:03

End at: 2018-02-16 18:07:33

Below is generated by plot.py at 2018-02-16 21:34:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 318.63 Mbit/s

95th percentile per-packet one-way delay: 101.721 ms

Loss rate: 0.14%

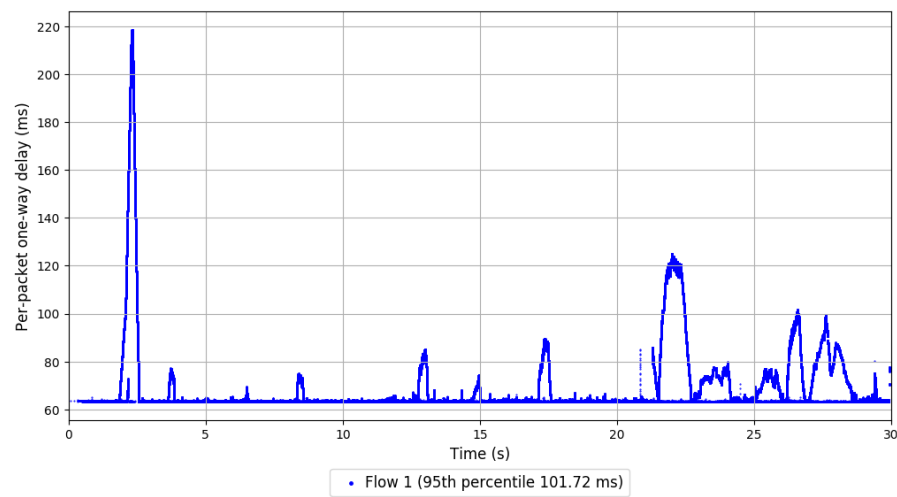
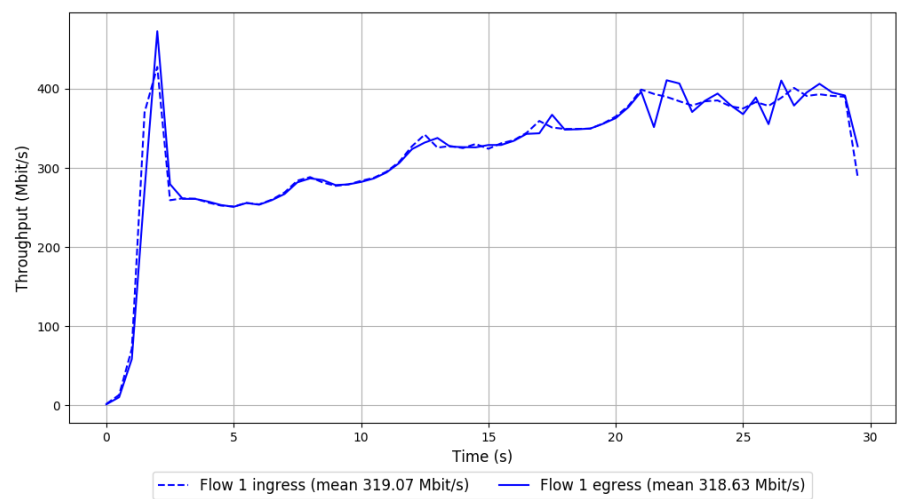
-- Flow 1:

Average throughput: 318.63 Mbit/s

95th percentile per-packet one-way delay: 101.721 ms

Loss rate: 0.14%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-02-16 18:21:46

End at: 2018-02-16 18:22:17

Below is generated by plot.py at 2018-02-16 21:34:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 347.64 Mbit/s

95th percentile per-packet one-way delay: 147.931 ms

Loss rate: 0.40%

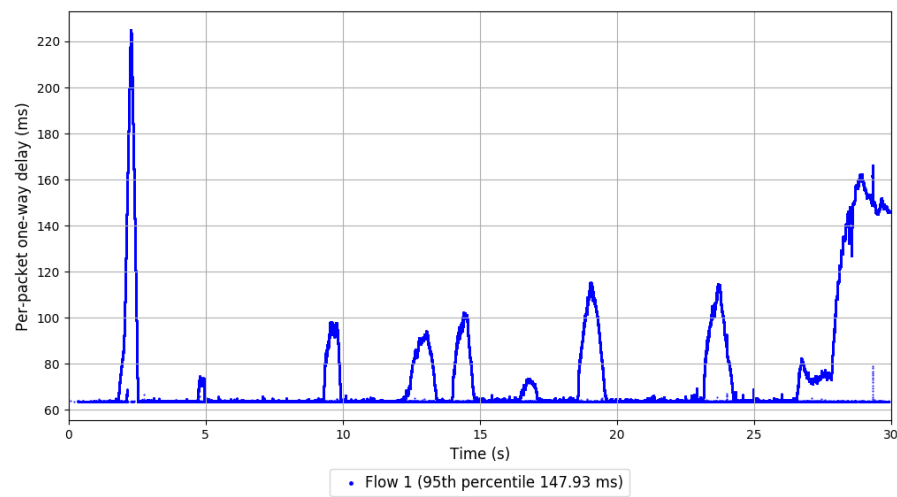
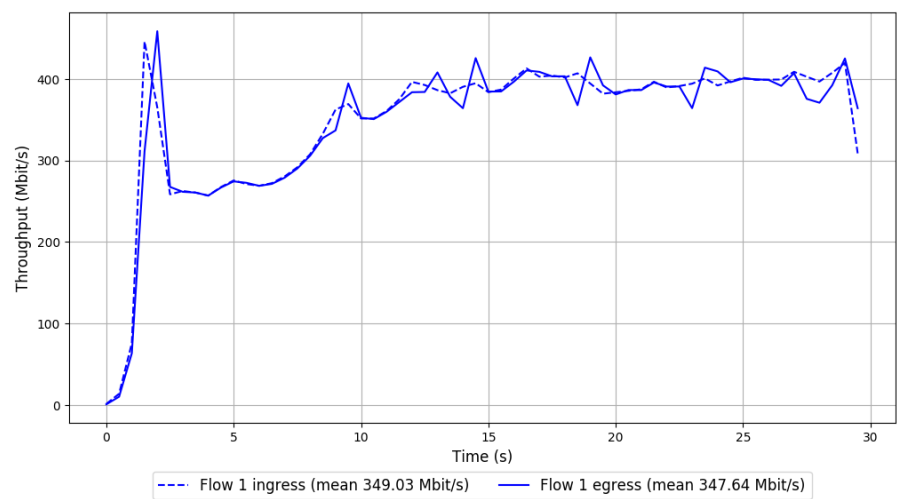
-- Flow 1:

Average throughput: 347.64 Mbit/s

95th percentile per-packet one-way delay: 147.931 ms

Loss rate: 0.40%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-02-16 18:36:46

End at: 2018-02-16 18:37:16

Below is generated by plot.py at 2018-02-16 21:35:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 358.31 Mbit/s

95th percentile per-packet one-way delay: 128.292 ms

Loss rate: 0.05%

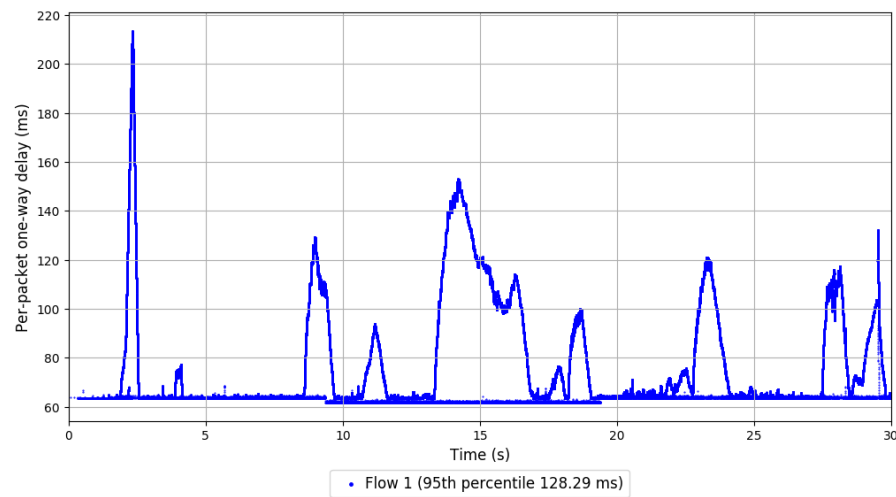
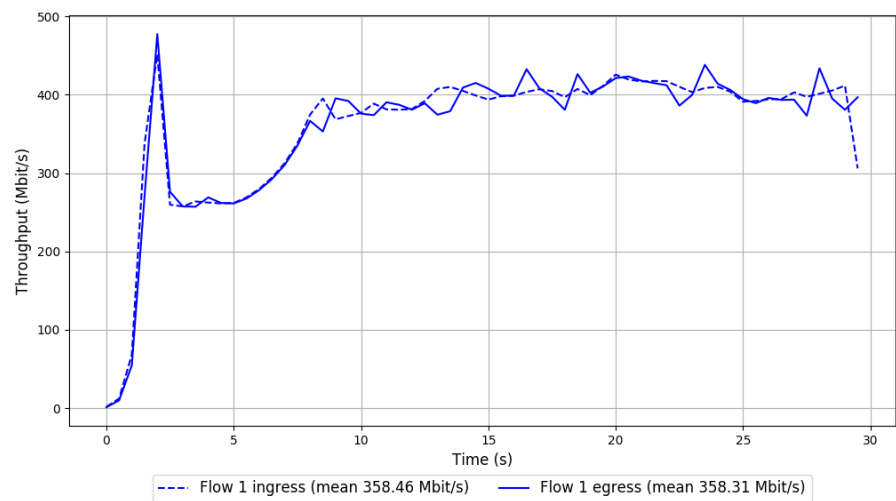
-- Flow 1:

Average throughput: 358.31 Mbit/s

95th percentile per-packet one-way delay: 128.292 ms

Loss rate: 0.05%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-02-16 18:51:28

End at: 2018-02-16 18:51:58

Below is generated by plot.py at 2018-02-16 21:35:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 337.46 Mbit/s

95th percentile per-packet one-way delay: 128.411 ms

Loss rate: 0.10%

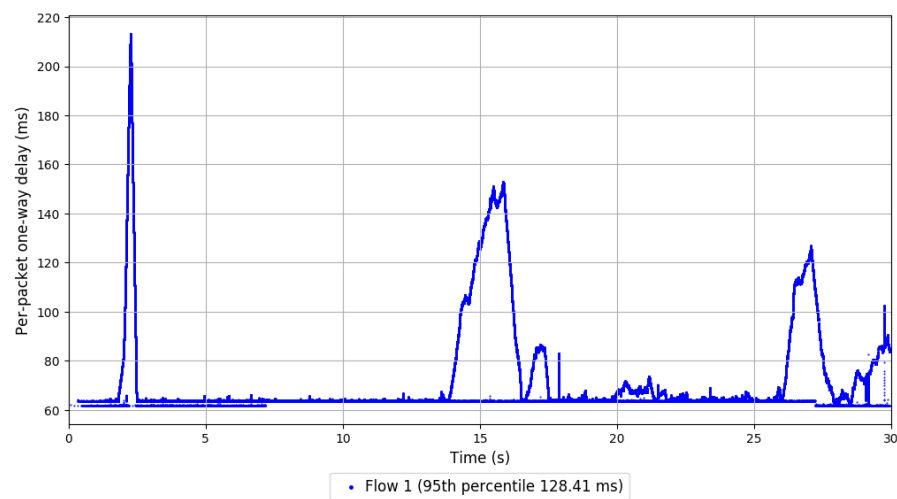
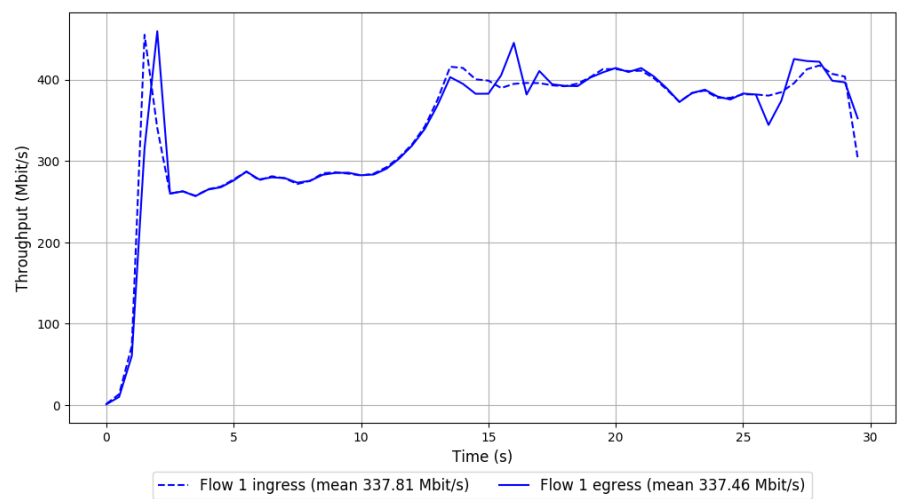
-- Flow 1:

Average throughput: 337.46 Mbit/s

95th percentile per-packet one-way delay: 128.411 ms

Loss rate: 0.10%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2018-02-16 19:06:05

End at: 2018-02-16 19:06:35

Below is generated by plot.py at 2018-02-16 21:40:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 350.91 Mbit/s

95th percentile per-packet one-way delay: 93.505 ms

Loss rate: 0.07%

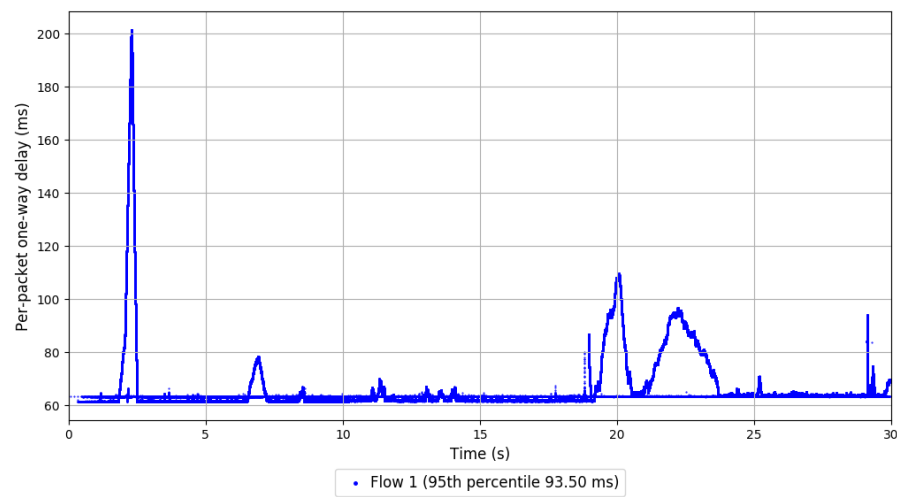
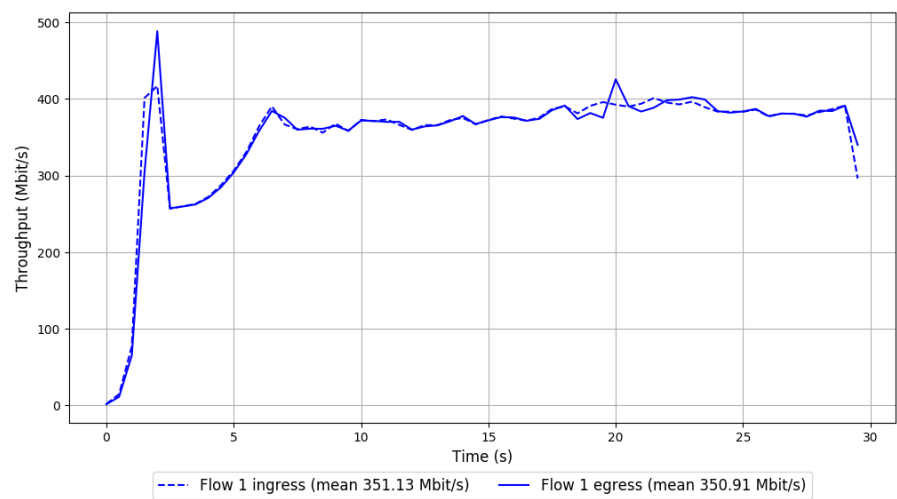
-- Flow 1:

Average throughput: 350.91 Mbit/s

95th percentile per-packet one-way delay: 93.505 ms

Loss rate: 0.07%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2018-02-16 19:21:03

End at: 2018-02-16 19:21:33

Below is generated by plot.py at 2018-02-16 21:40:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 353.39 Mbit/s

95th percentile per-packet one-way delay: 92.594 ms

Loss rate: 0.07%

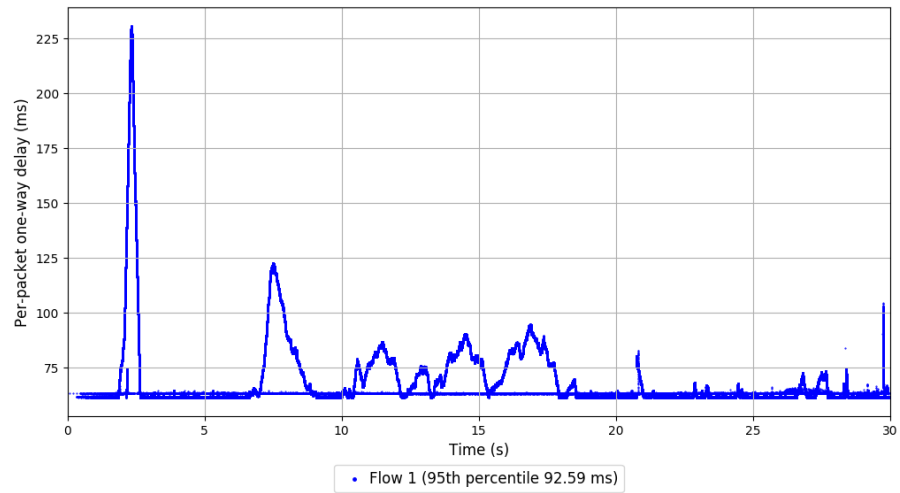
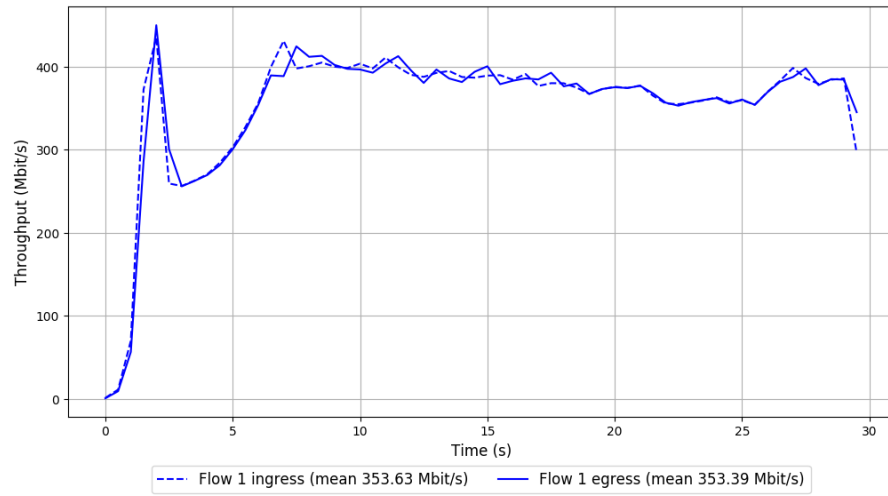
-- Flow 1:

Average throughput: 353.39 Mbit/s

95th percentile per-packet one-way delay: 92.594 ms

Loss rate: 0.07%

Run 10: Report of PCC — Data Link

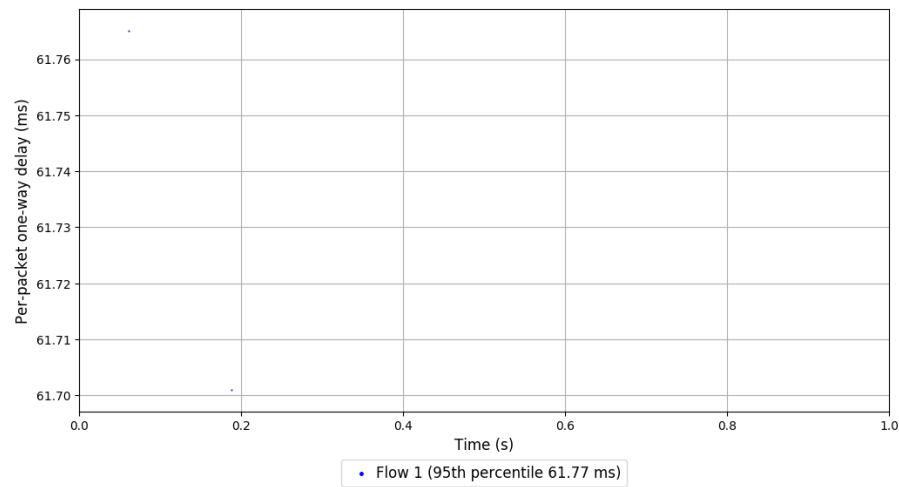
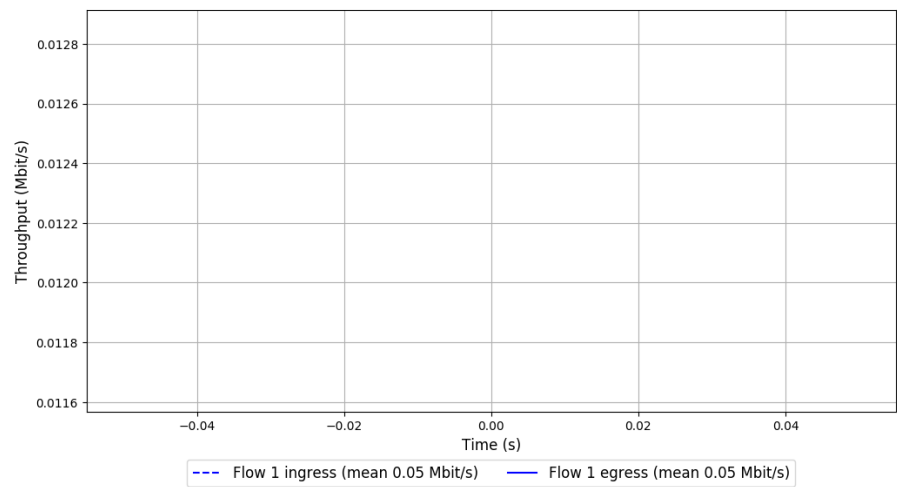


Run 1: Statistics of QUIC Cubic

Start at: 2018-02-16 17:15:06

End at: 2018-02-16 17:15:36

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-02-16 17:29:52

End at: 2018-02-16 17:30:22

Below is generated by plot.py at 2018-02-16 21:40:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.61 Mbit/s

95th percentile per-packet one-way delay: 63.414 ms

Loss rate: 0.00%

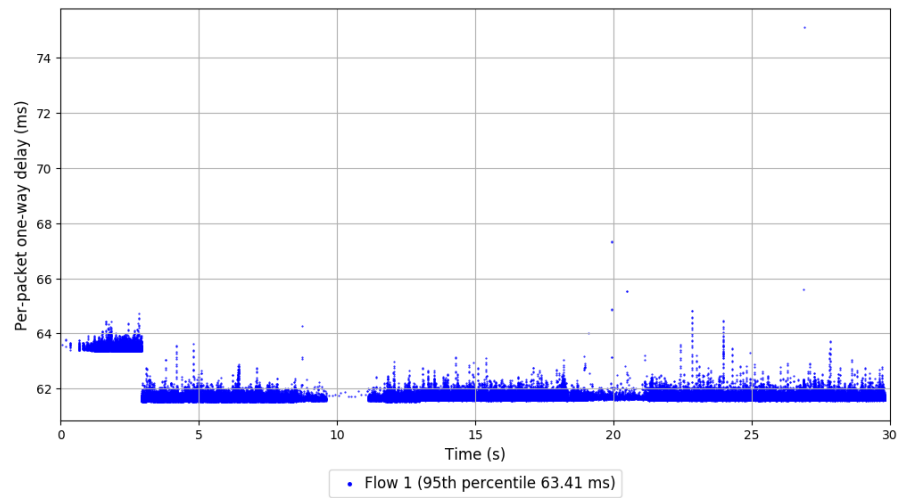
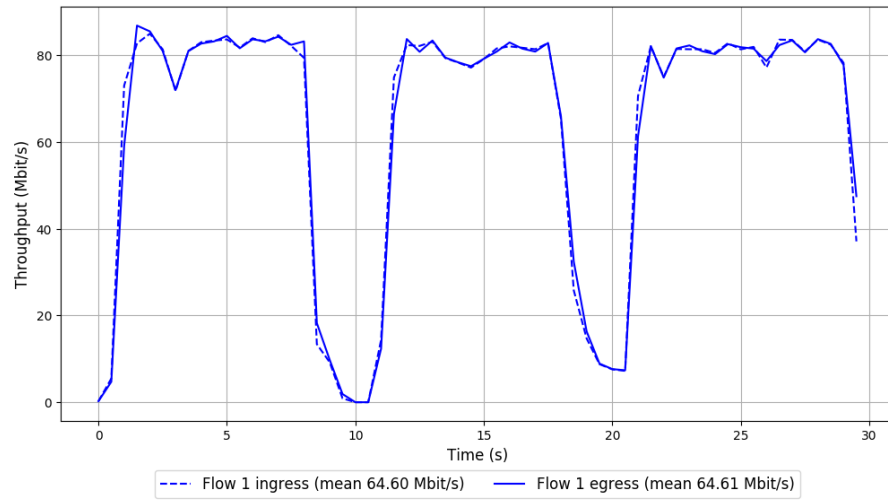
-- Flow 1:

Average throughput: 64.61 Mbit/s

95th percentile per-packet one-way delay: 63.414 ms

Loss rate: 0.00%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-02-16 17:45:00

End at: 2018-02-16 17:45:30

Below is generated by plot.py at 2018-02-16 21:40:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 54.99 Mbit/s

95th percentile per-packet one-way delay: 61.540 ms

Loss rate: 0.00%

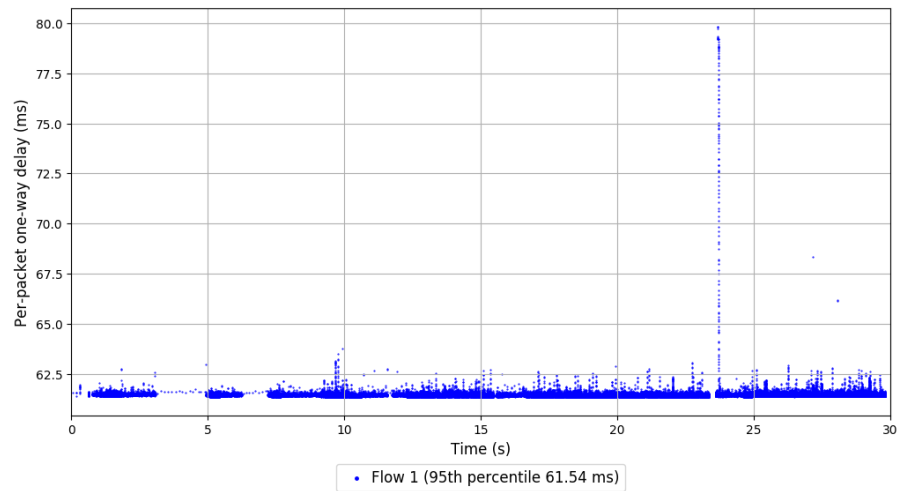
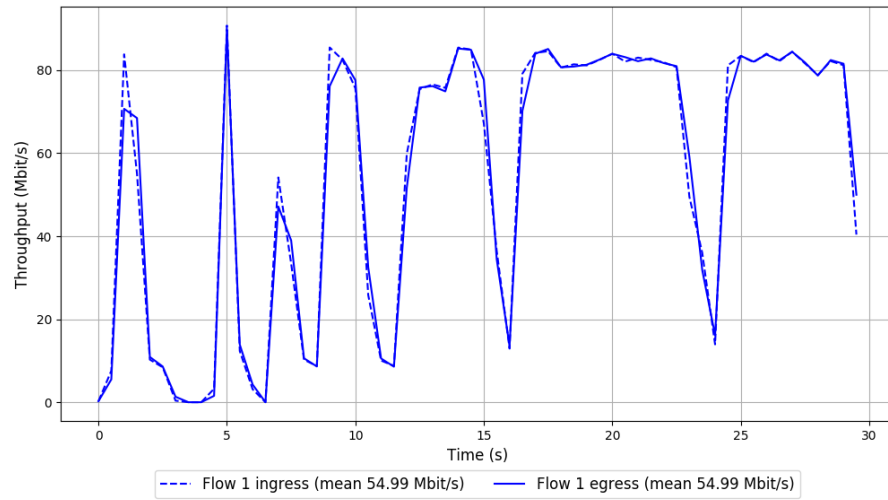
-- Flow 1:

Average throughput: 54.99 Mbit/s

95th percentile per-packet one-way delay: 61.540 ms

Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-02-16 17:59:52

End at: 2018-02-16 18:00:22

Below is generated by plot.py at 2018-02-16 21:40:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 54.38 Mbit/s

95th percentile per-packet one-way delay: 61.591 ms

Loss rate: 0.00%

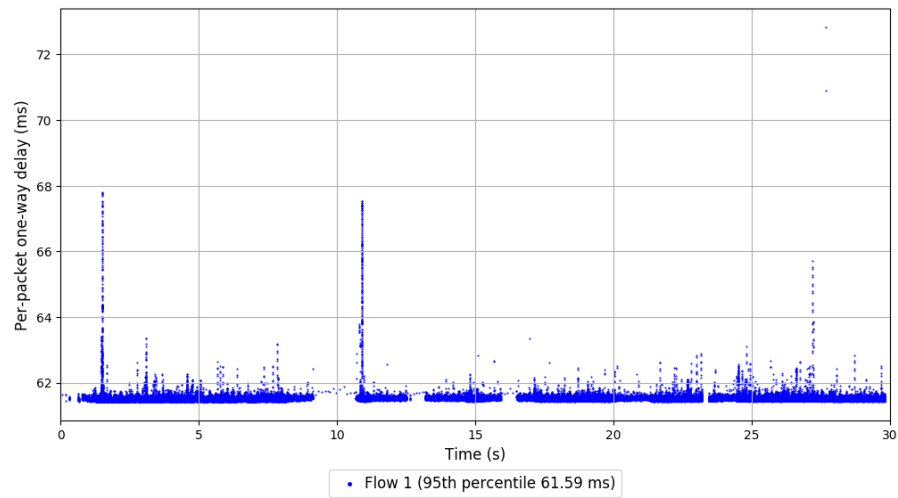
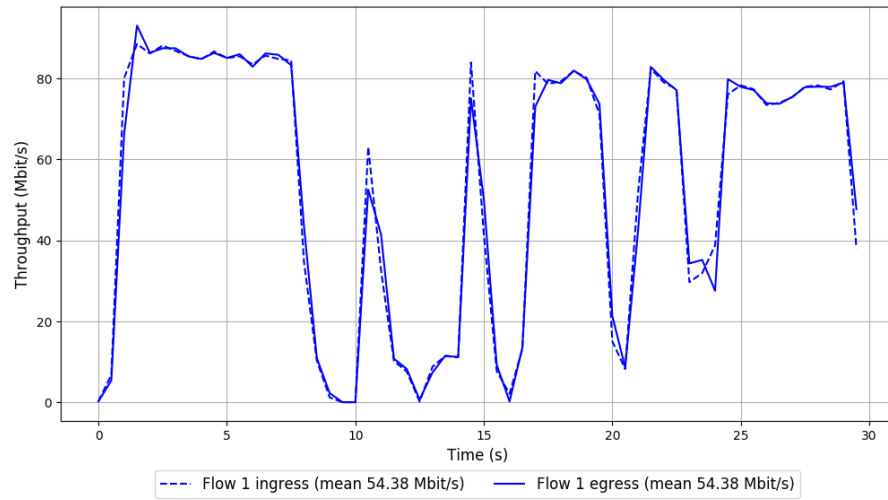
-- Flow 1:

Average throughput: 54.38 Mbit/s

95th percentile per-packet one-way delay: 61.591 ms

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-02-16 18:14:38

End at: 2018-02-16 18:15:08

Below is generated by plot.py at 2018-02-16 21:40:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 59.56 Mbit/s

95th percentile per-packet one-way delay: 63.564 ms

Loss rate: 0.01%

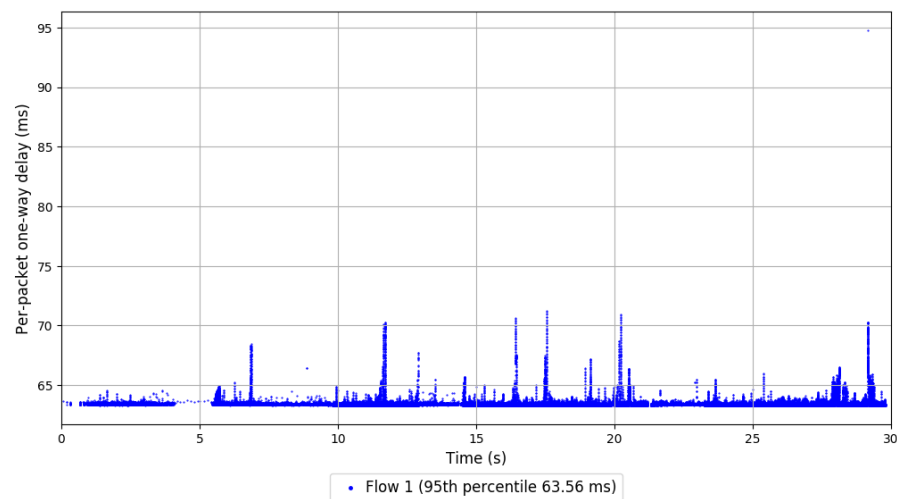
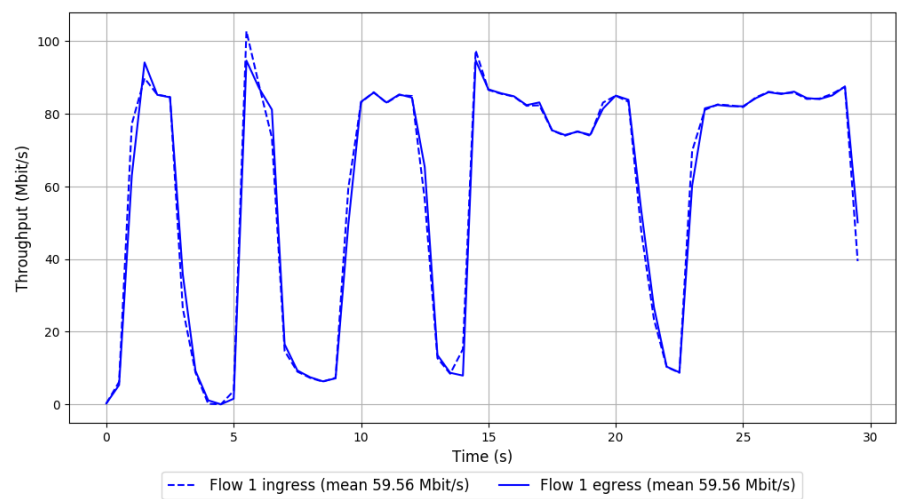
-- Flow 1:

Average throughput: 59.56 Mbit/s

95th percentile per-packet one-way delay: 63.564 ms

Loss rate: 0.01%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-02-16 18:29:35

End at: 2018-02-16 18:30:05

Below is generated by plot.py at 2018-02-16 21:40:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 67.09 Mbit/s

95th percentile per-packet one-way delay: 63.506 ms

Loss rate: 0.00%

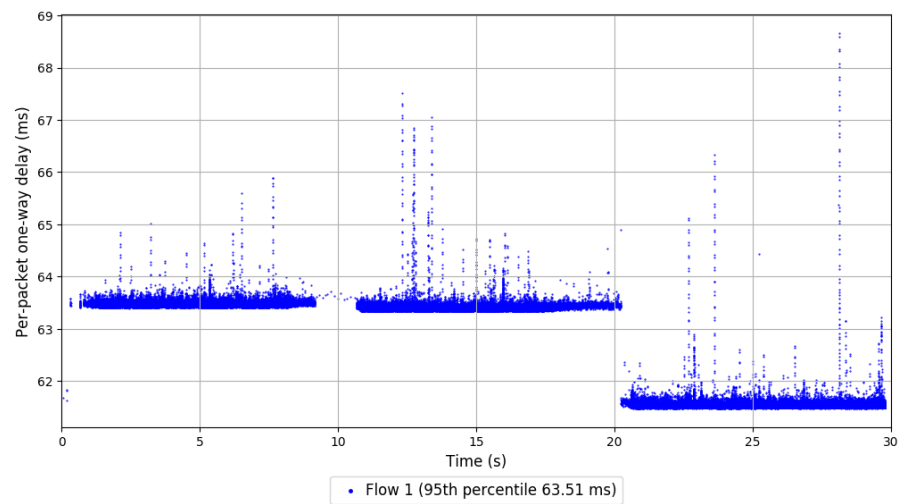
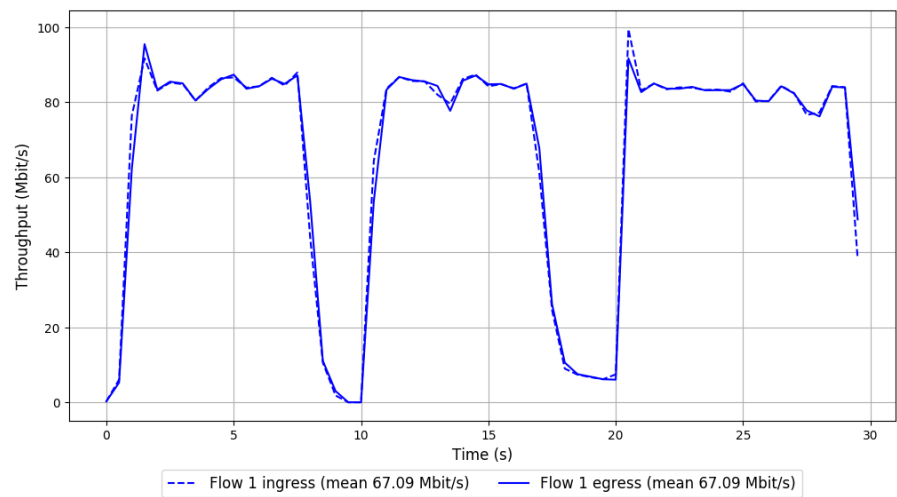
-- Flow 1:

Average throughput: 67.09 Mbit/s

95th percentile per-packet one-way delay: 63.506 ms

Loss rate: 0.00%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-02-16 18:44:23

End at: 2018-02-16 18:44:53

Below is generated by plot.py at 2018-02-16 21:40:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 62.59 Mbit/s

95th percentile per-packet one-way delay: 63.582 ms

Loss rate: 0.00%

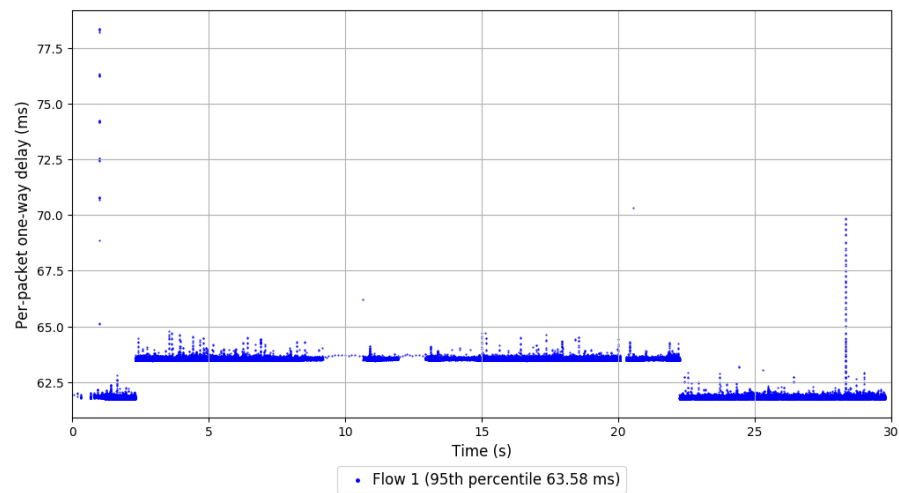
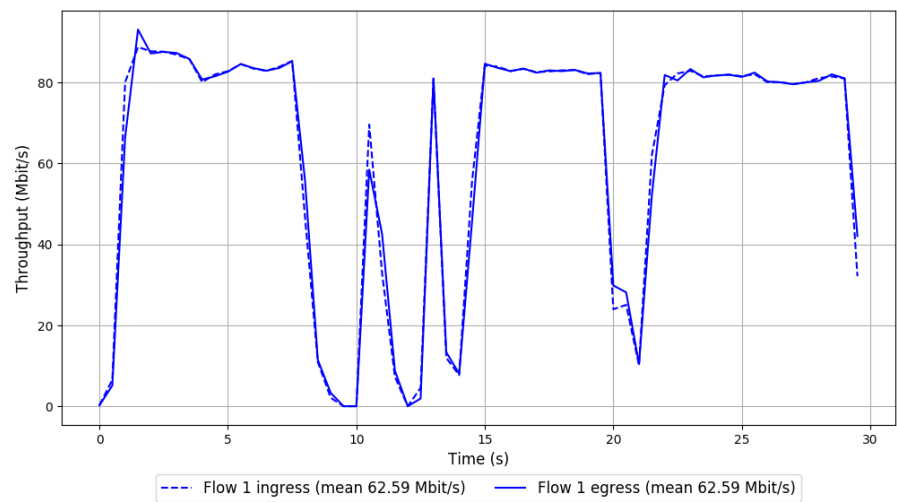
-- Flow 1:

Average throughput: 62.59 Mbit/s

95th percentile per-packet one-way delay: 63.582 ms

Loss rate: 0.00%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-02-16 18:59:13

End at: 2018-02-16 18:59:43

Below is generated by plot.py at 2018-02-16 21:40:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 62.22 Mbit/s

95th percentile per-packet one-way delay: 61.710 ms

Loss rate: 0.00%

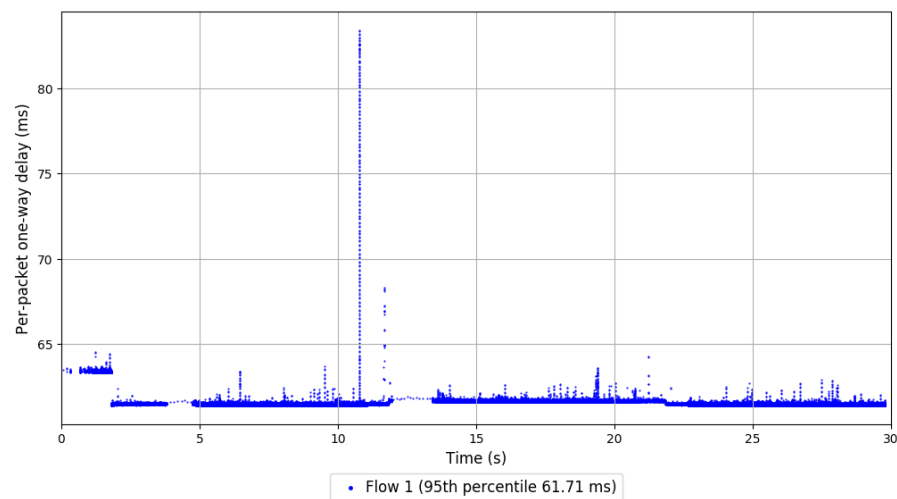
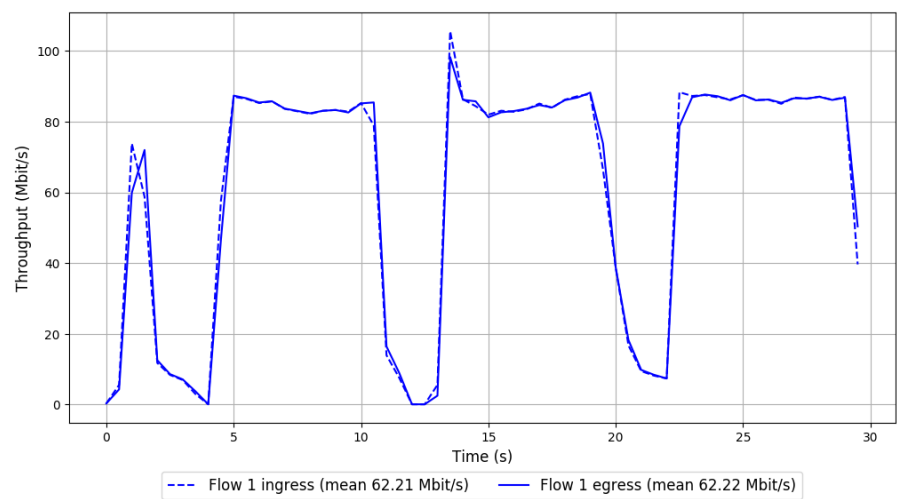
-- Flow 1:

Average throughput: 62.22 Mbit/s

95th percentile per-packet one-way delay: 61.710 ms

Loss rate: 0.00%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-02-16 19:13:52

End at: 2018-02-16 19:14:22

Below is generated by plot.py at 2018-02-16 21:40:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 66.90 Mbit/s

95th percentile per-packet one-way delay: 63.555 ms

Loss rate: 0.00%

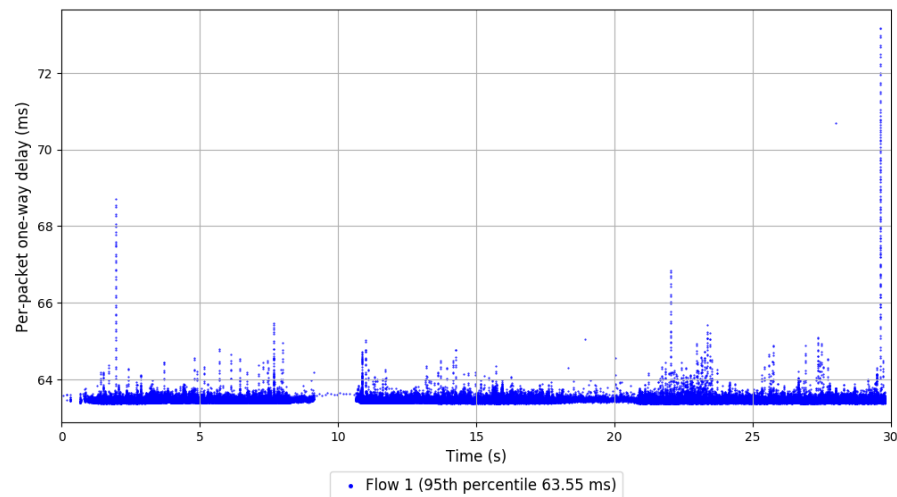
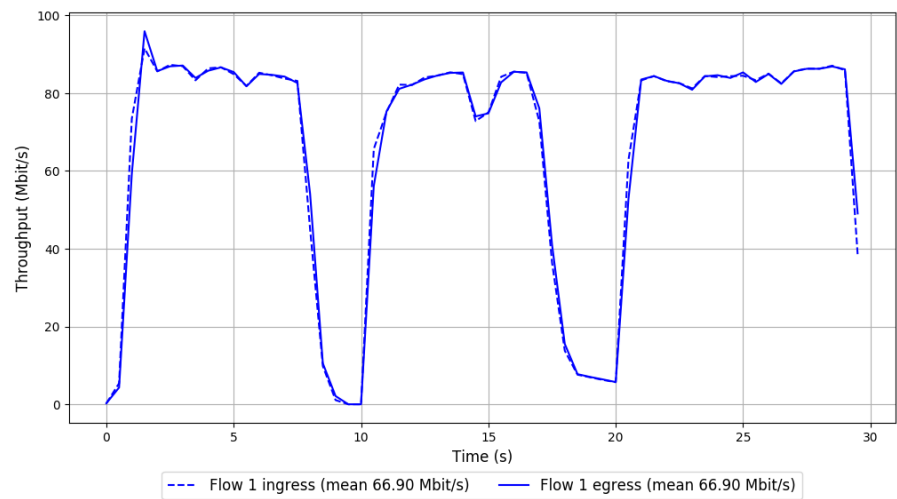
-- Flow 1:

Average throughput: 66.90 Mbit/s

95th percentile per-packet one-way delay: 63.555 ms

Loss rate: 0.00%

Run 9: Report of QUIC Cubic — Data Link

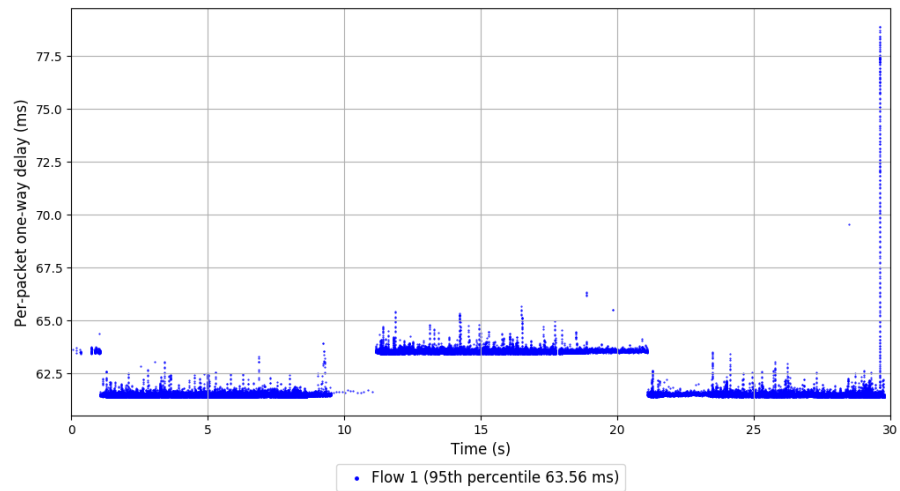
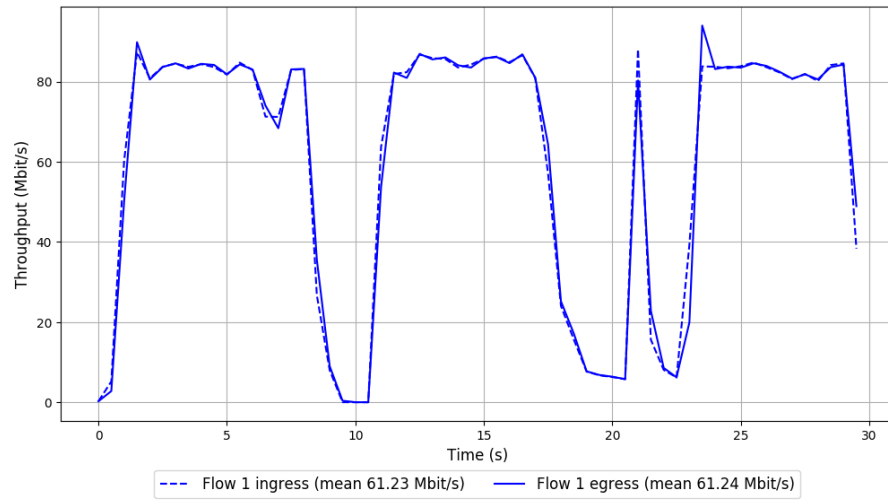


```
Run 10: Statistics of QUIC Cubic

Start at: 2018-02-16 19:28:54
End at: 2018-02-16 19:29:24

# Below is generated by plot.py at 2018-02-16 21:40:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 61.24 Mbit/s
95th percentile per-packet one-way delay: 63.558 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 61.24 Mbit/s
95th percentile per-packet one-way delay: 63.558 ms
Loss rate: 0.00%
```

Run 10: Report of QUIC Cubic — Data Link

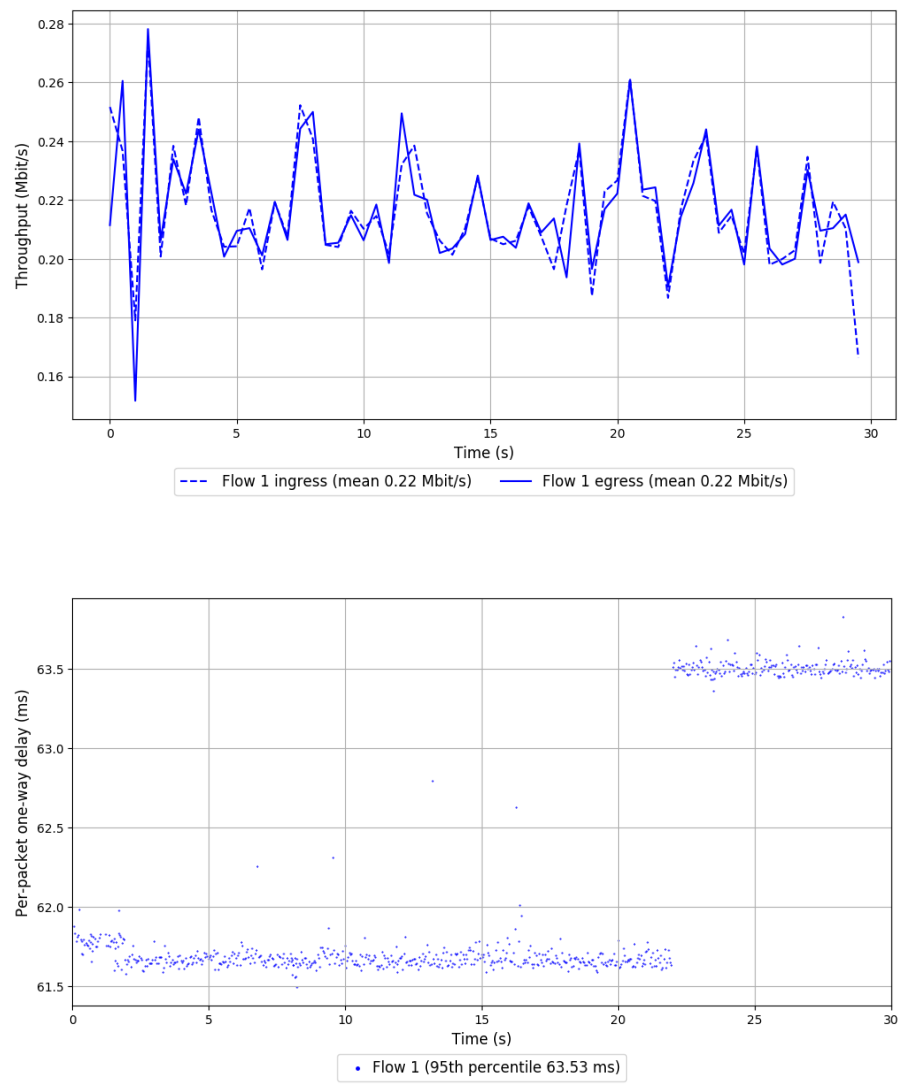


```
Run 1: Statistics of SCReAM

Start at: 2018-02-16 17:15:43
End at: 2018-02-16 17:16:13

# Below is generated by plot.py at 2018-02-16 21:40:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.532 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.532 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

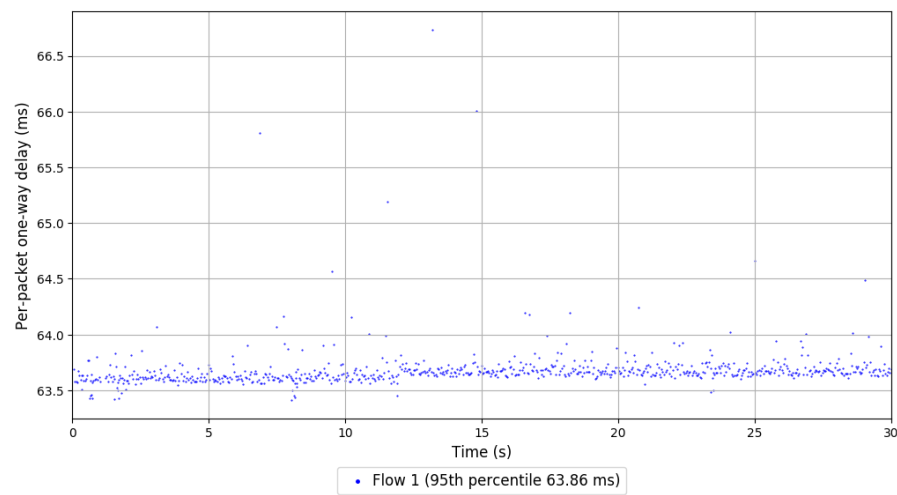
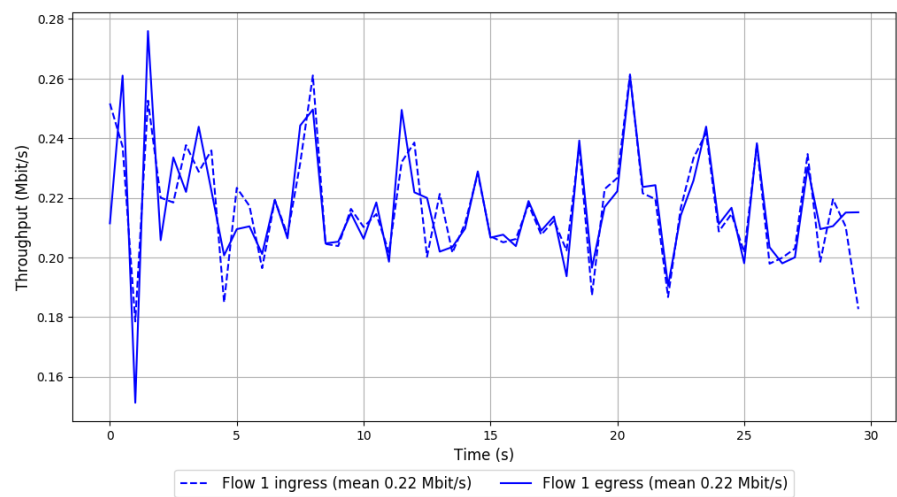


```
Run 2: Statistics of SCReAM

Start at: 2018-02-16 17:30:33
End at: 2018-02-16 17:31:03

# Below is generated by plot.py at 2018-02-16 21:40:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.856 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.856 ms
Loss rate: 0.00%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-02-16 17:45:41

End at: 2018-02-16 17:46:11

Below is generated by plot.py at 2018-02-16 21:40:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.595 ms

Loss rate: 0.00%

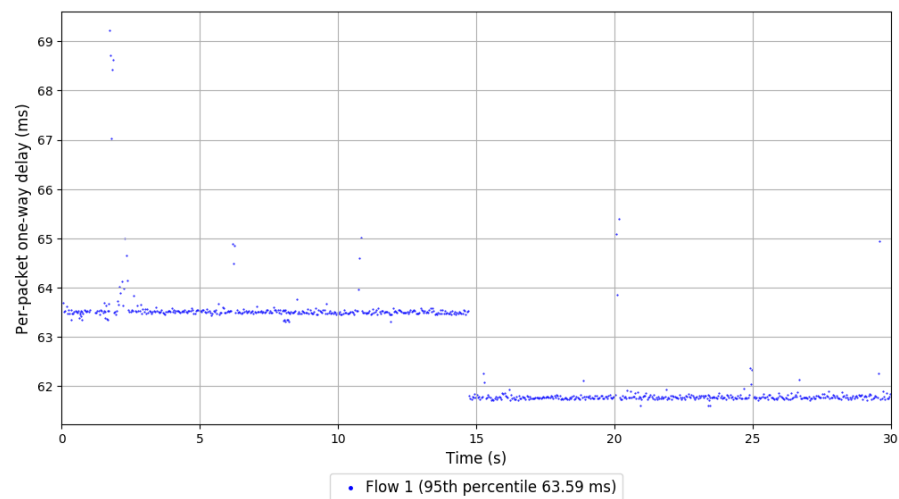
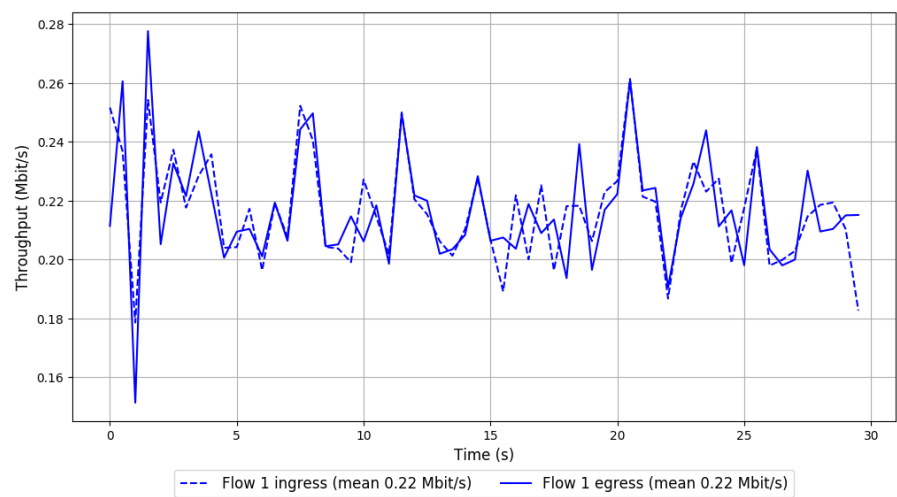
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.595 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link

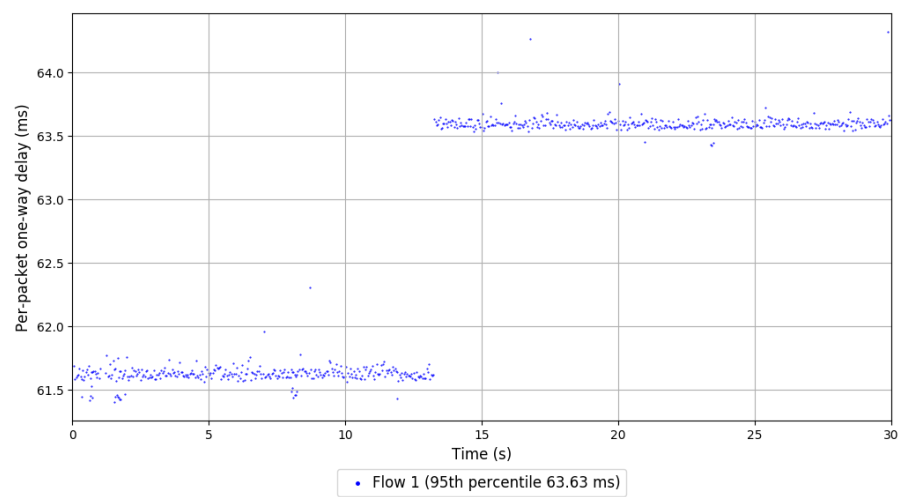
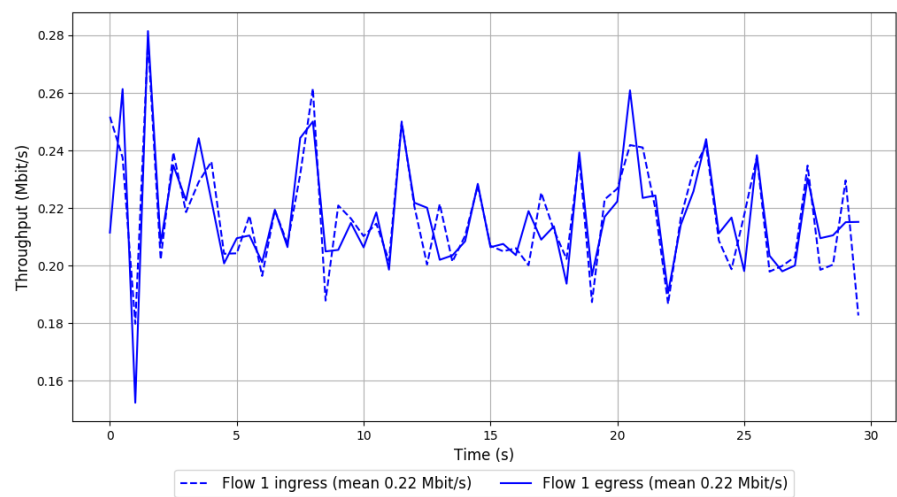


```
Run 4: Statistics of SCReAM

Start at: 2018-02-16 18:00:32
End at: 2018-02-16 18:01:02

# Below is generated by plot.py at 2018-02-16 21:40:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.635 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.635 ms
Loss rate: 0.00%
```

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-02-16 18:15:19

End at: 2018-02-16 18:15:49

Below is generated by plot.py at 2018-02-16 21:40:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.692 ms

Loss rate: 0.00%

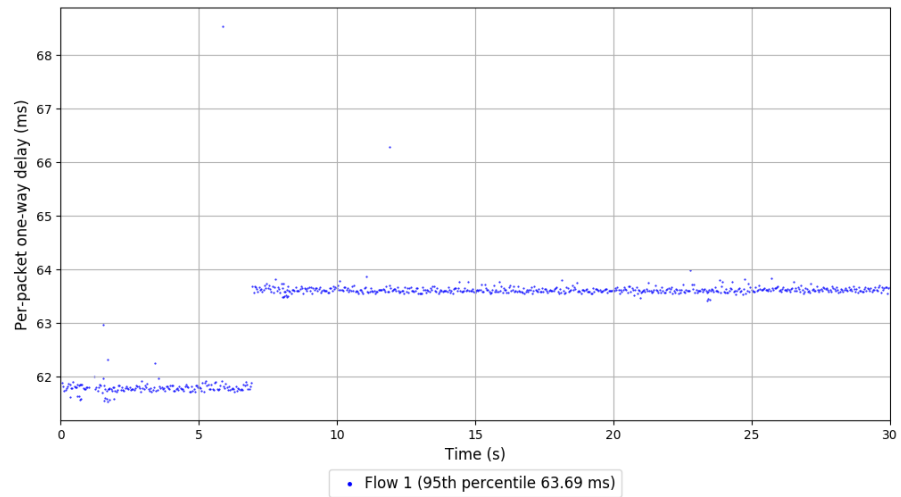
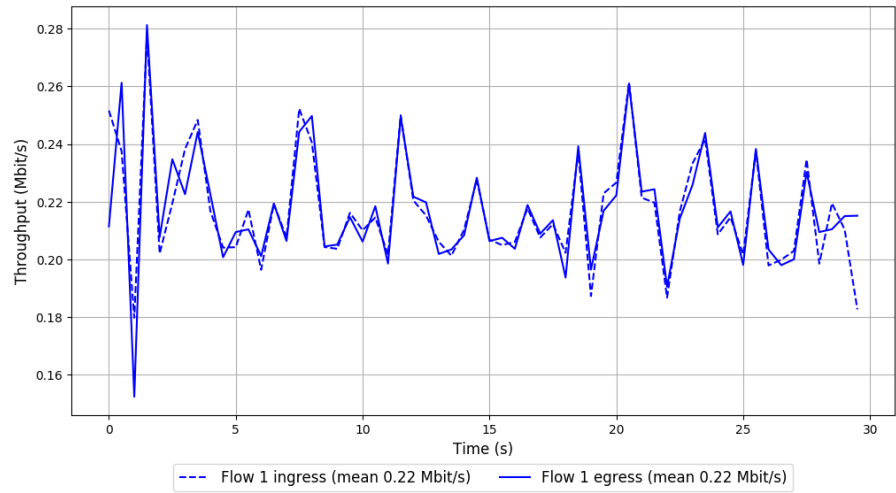
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.692 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-02-16 18:30:16

End at: 2018-02-16 18:30:46

Below is generated by plot.py at 2018-02-16 21:40:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.845 ms

Loss rate: 0.00%

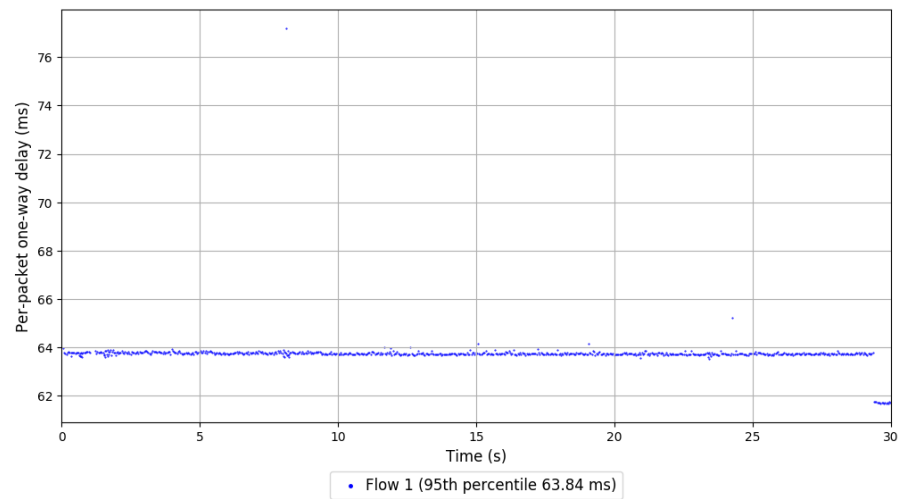
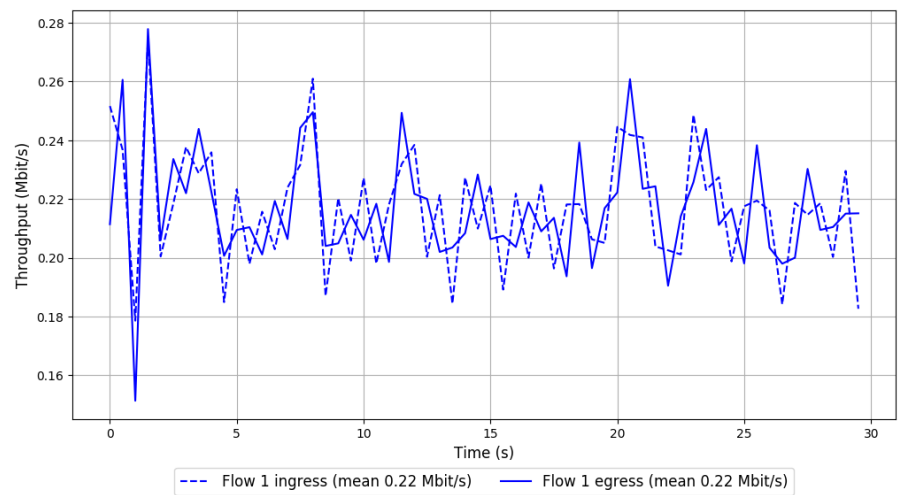
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.845 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2018-02-16 18:45:04

End at: 2018-02-16 18:45:34

Below is generated by plot.py at 2018-02-16 21:40:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.838 ms

Loss rate: 0.00%

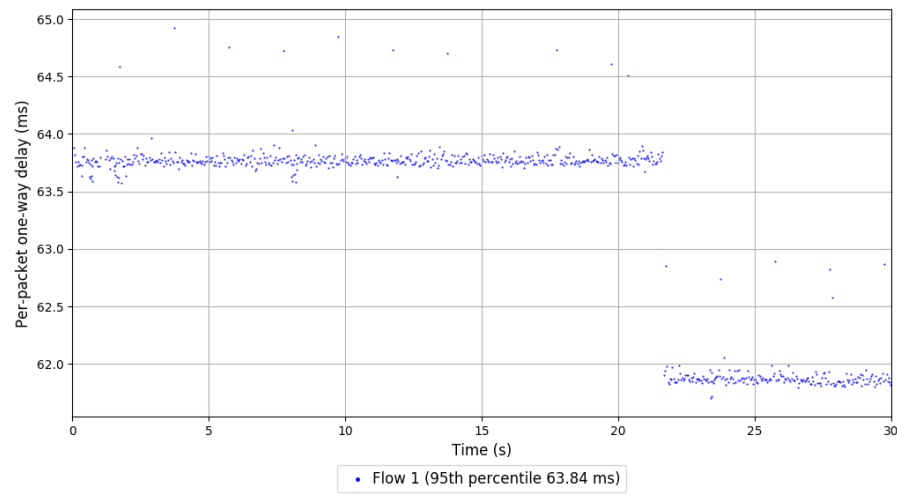
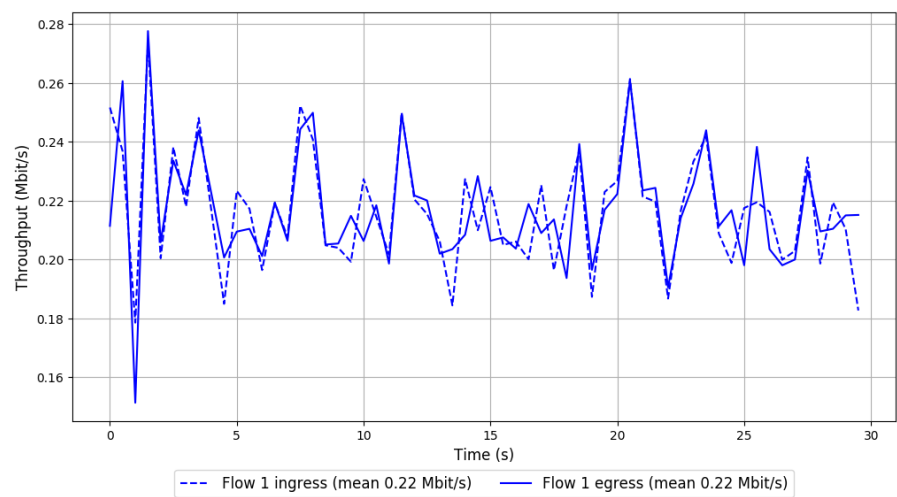
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.838 ms

Loss rate: 0.00%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-02-16 18:59:54

End at: 2018-02-16 19:00:24

Below is generated by plot.py at 2018-02-16 21:40:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.607 ms

Loss rate: 0.00%

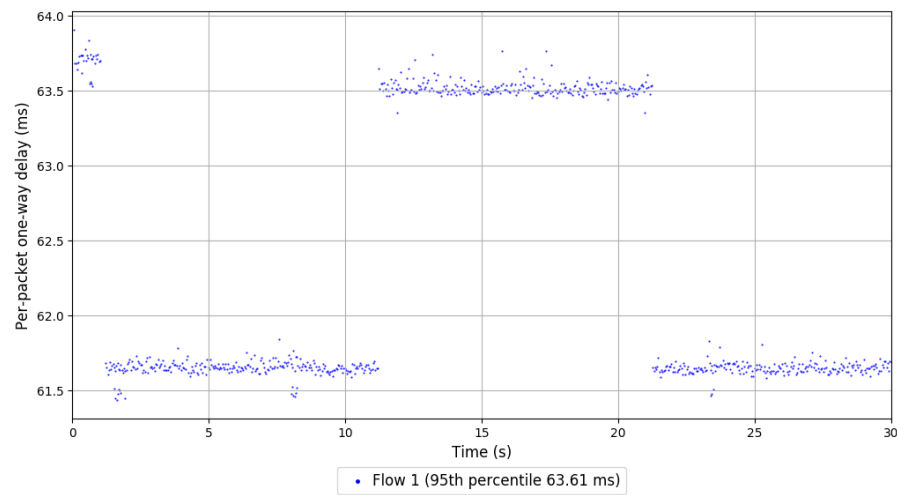
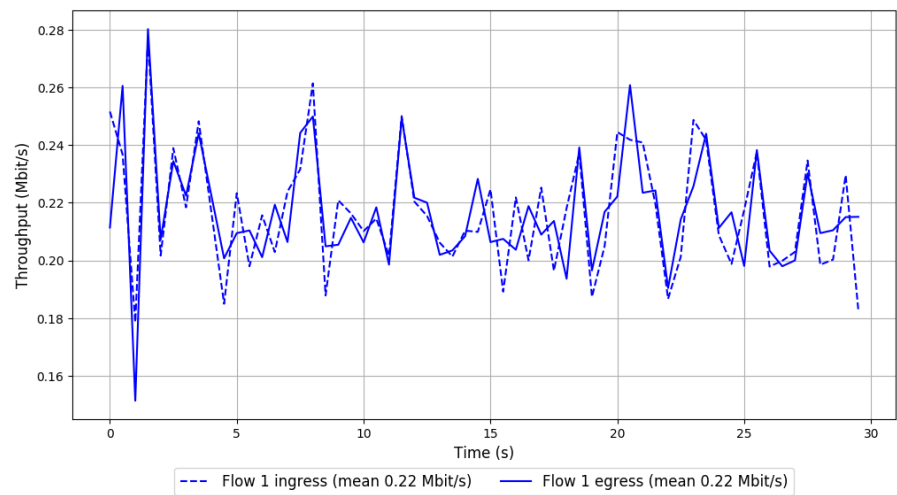
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.607 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-02-16 19:14:33

End at: 2018-02-16 19:15:03

Below is generated by plot.py at 2018-02-16 21:40:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.573 ms

Loss rate: 0.00%

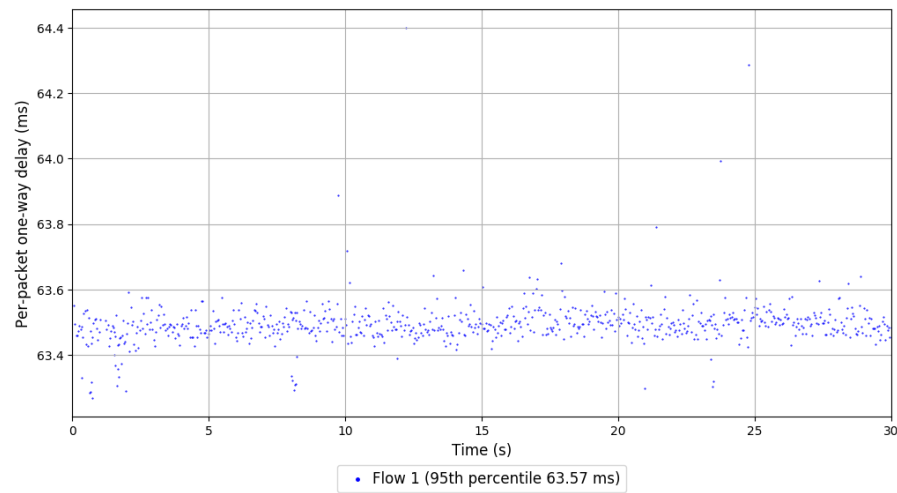
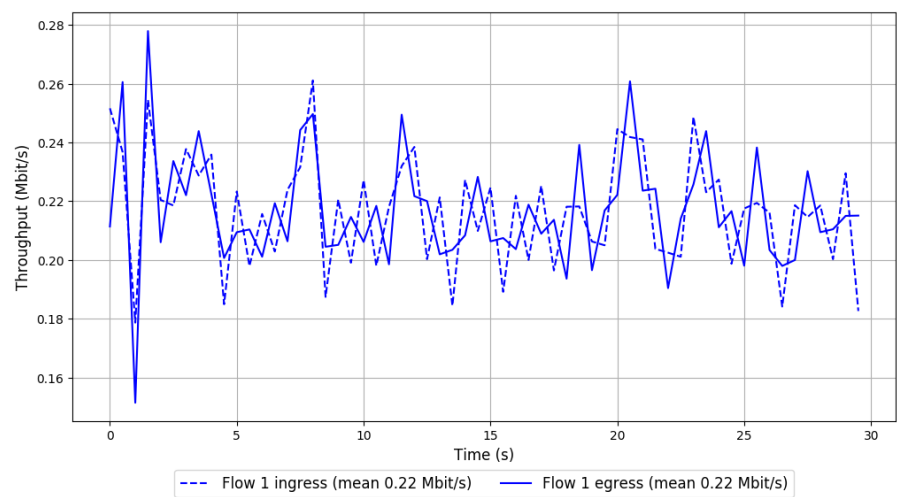
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.573 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-02-16 19:29:35

End at: 2018-02-16 19:30:05

Below is generated by plot.py at 2018-02-16 21:40:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.633 ms

Loss rate: 0.00%

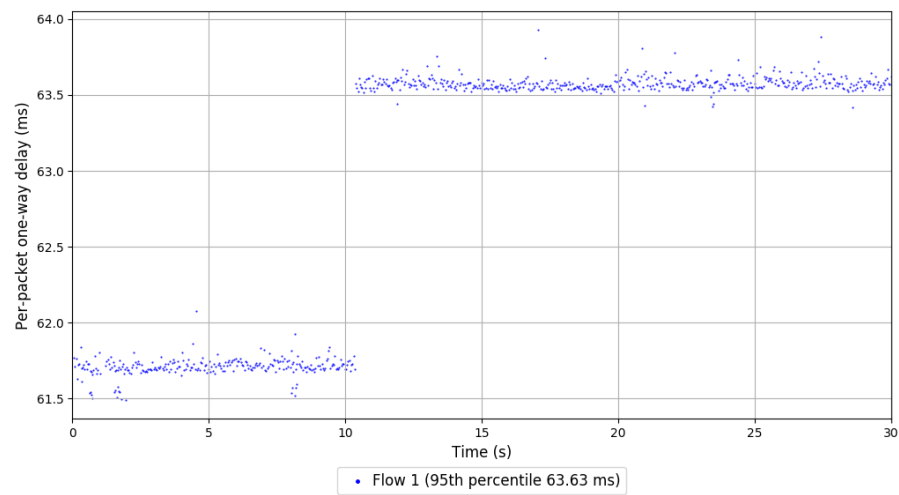
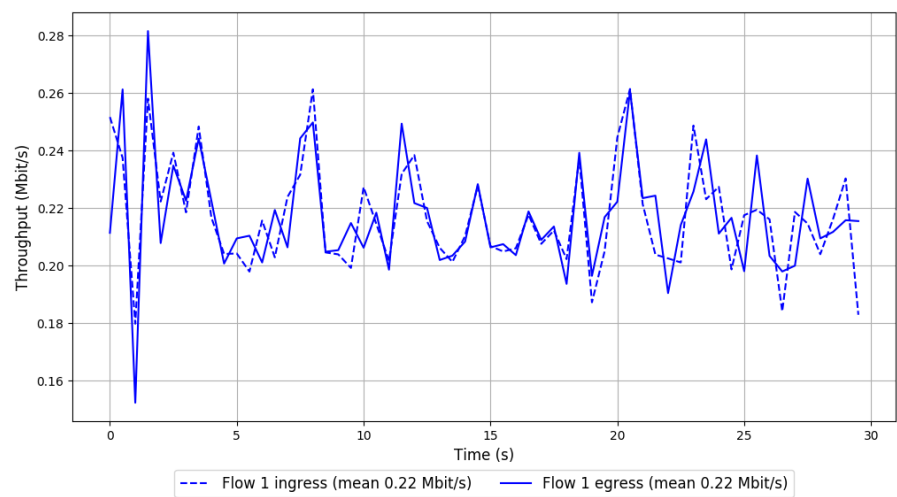
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.633 ms

Loss rate: 0.00%

Run 10: Report of SReAM — Data Link

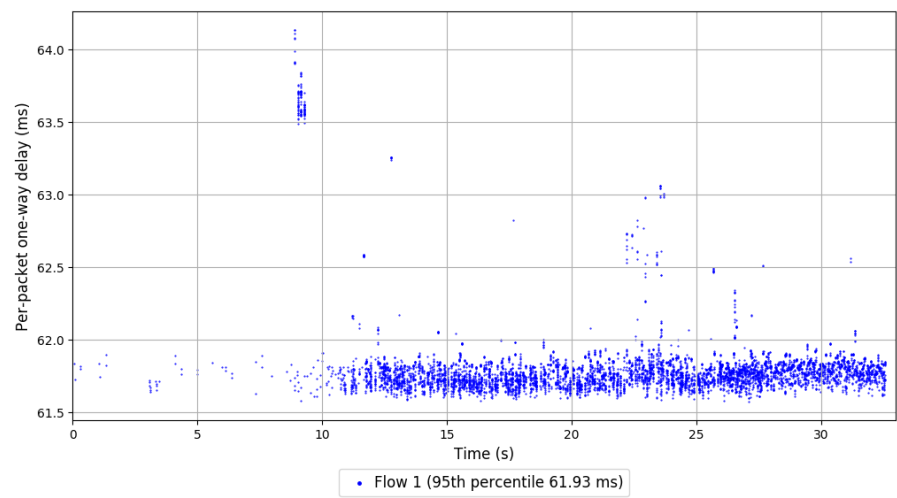
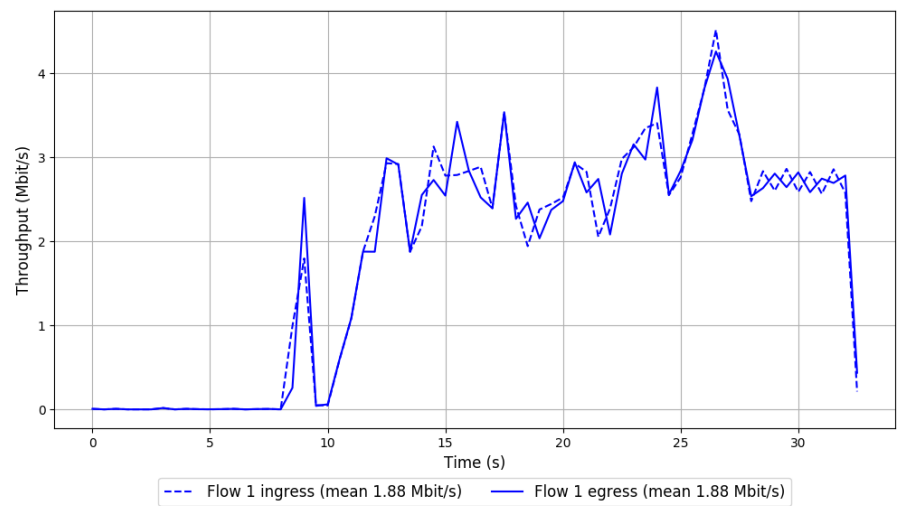


```
Run 1: Statistics of WebRTC media

Start at: 2018-02-16 17:13:51
End at: 2018-02-16 17:14:21

# Below is generated by plot.py at 2018-02-16 21:40:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.88 Mbit/s
95th percentile per-packet one-way delay: 61.931 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.88 Mbit/s
95th percentile per-packet one-way delay: 61.931 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-02-16 17:28:37

End at: 2018-02-16 17:29:07

Below is generated by plot.py at 2018-02-16 21:40:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 63.711 ms

Loss rate: 0.00%

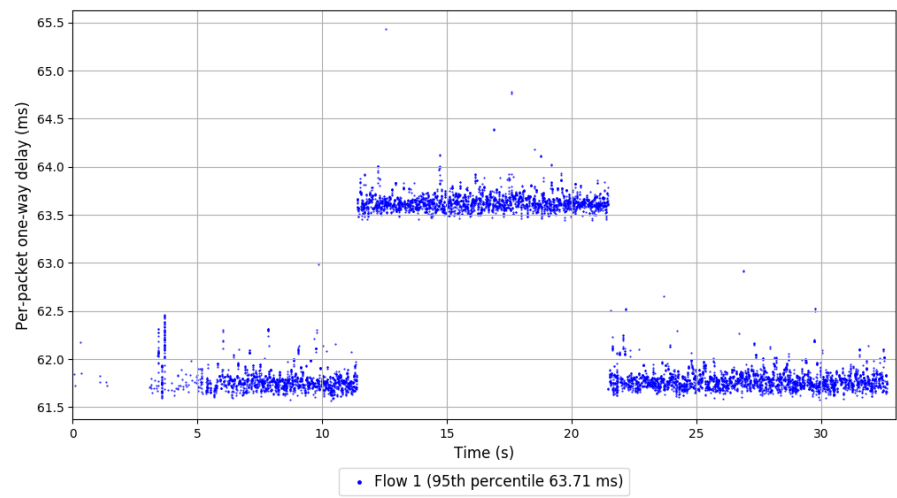
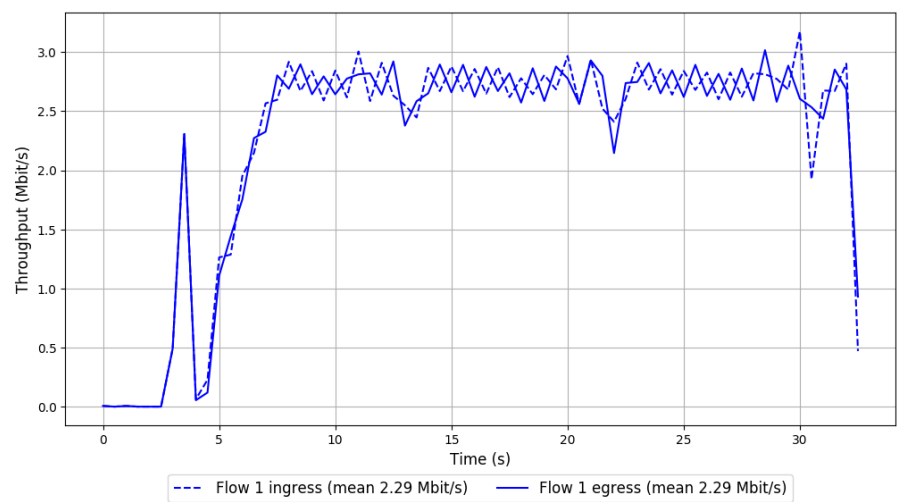
-- Flow 1:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 63.711 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-02-16 17:43:45

End at: 2018-02-16 17:44:15

Below is generated by plot.py at 2018-02-16 21:40:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 63.748 ms

Loss rate: 0.00%

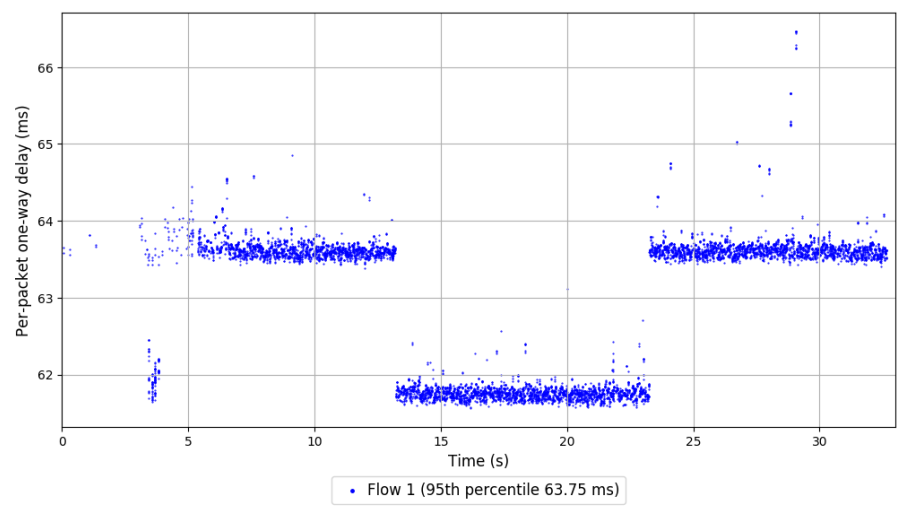
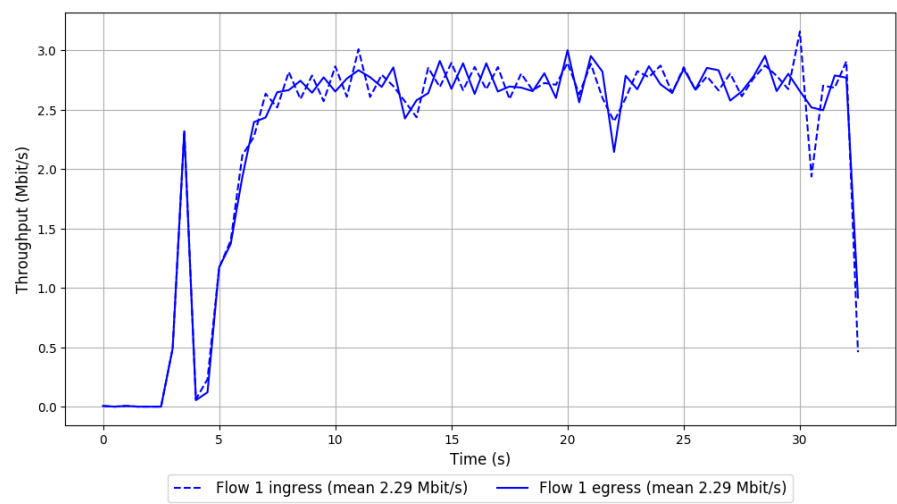
-- Flow 1:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 63.748 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-02-16 17:58:36

End at: 2018-02-16 17:59:06

Below is generated by plot.py at 2018-02-16 21:40:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.30 Mbit/s

95th percentile per-packet one-way delay: 63.620 ms

Loss rate: 0.00%

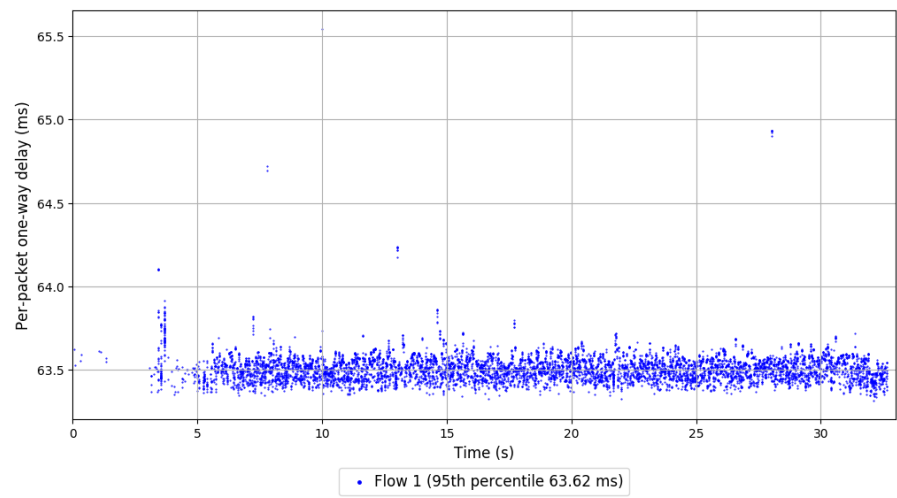
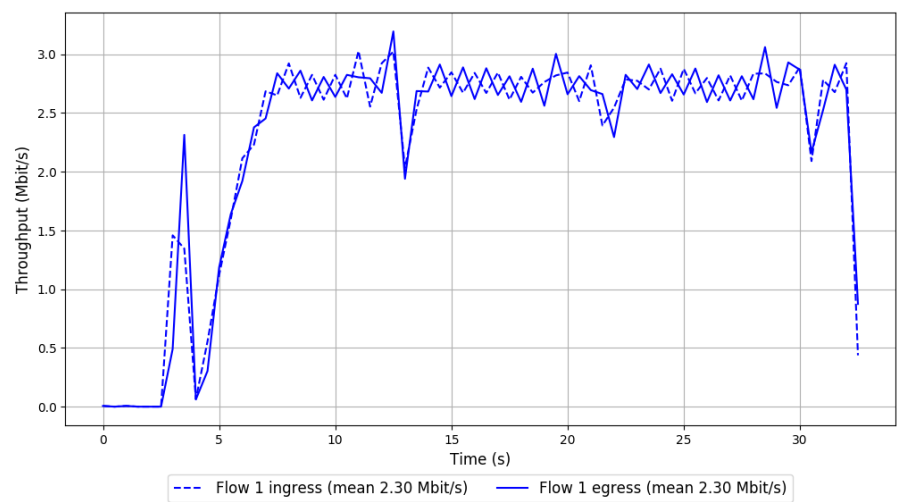
-- Flow 1:

Average throughput: 2.30 Mbit/s

95th percentile per-packet one-way delay: 63.620 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-02-16 18:13:22

End at: 2018-02-16 18:13:52

Below is generated by plot.py at 2018-02-16 21:40:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 63.668 ms

Loss rate: 0.00%

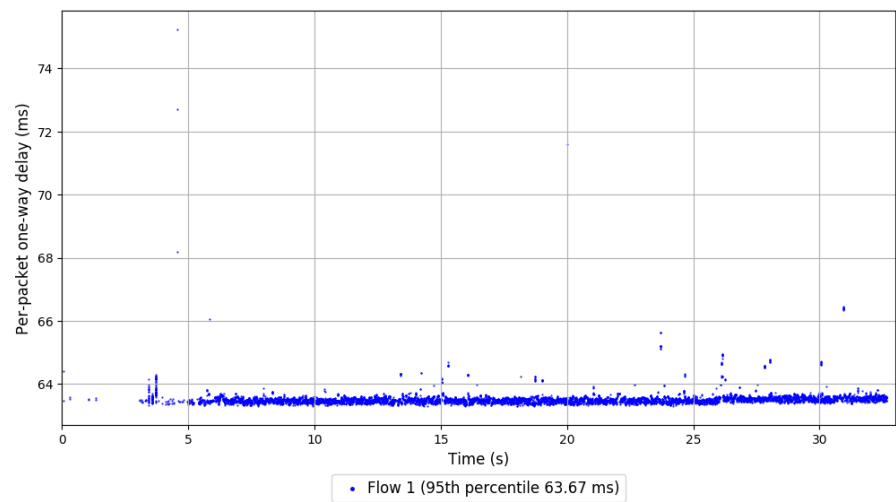
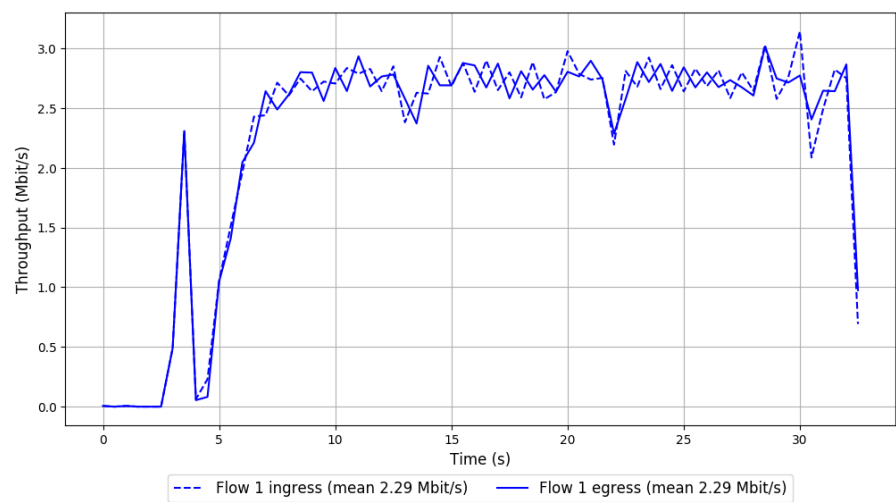
-- Flow 1:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 63.668 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-02-16 18:28:19

End at: 2018-02-16 18:28:49

Below is generated by plot.py at 2018-02-16 21:40:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.48 Mbit/s

95th percentile per-packet one-way delay: 63.694 ms

Loss rate: 0.00%

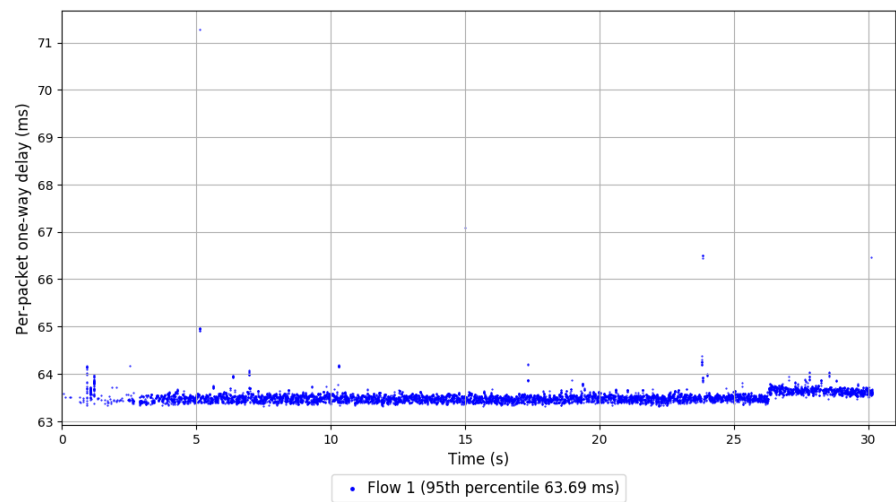
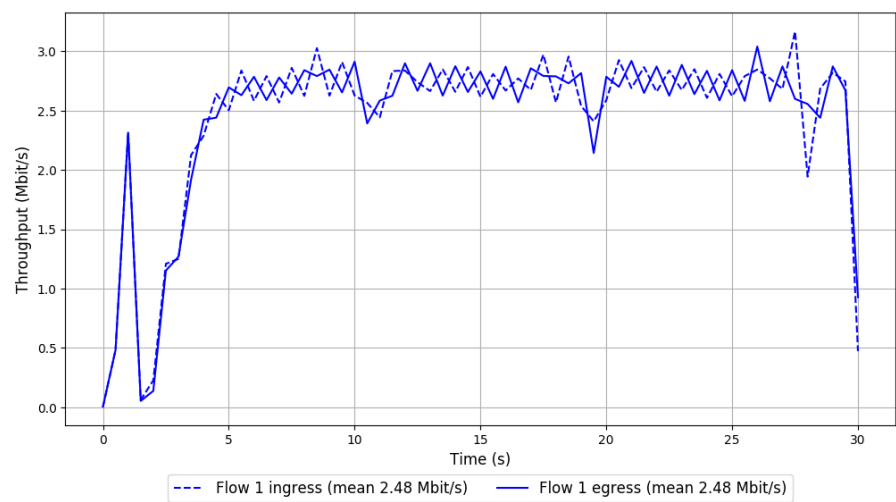
-- Flow 1:

Average throughput: 2.48 Mbit/s

95th percentile per-packet one-way delay: 63.694 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-02-16 18:43:08

End at: 2018-02-16 18:43:38

Below is generated by plot.py at 2018-02-16 21:40:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 63.778 ms

Loss rate: 0.00%

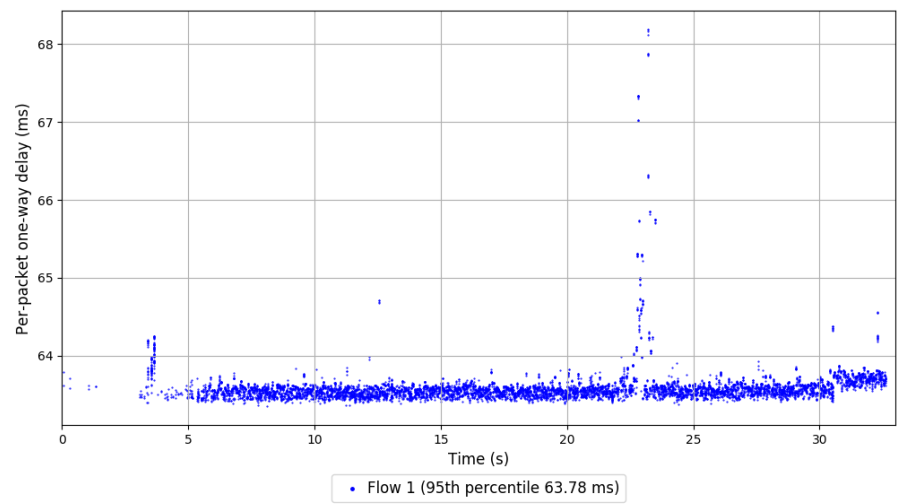
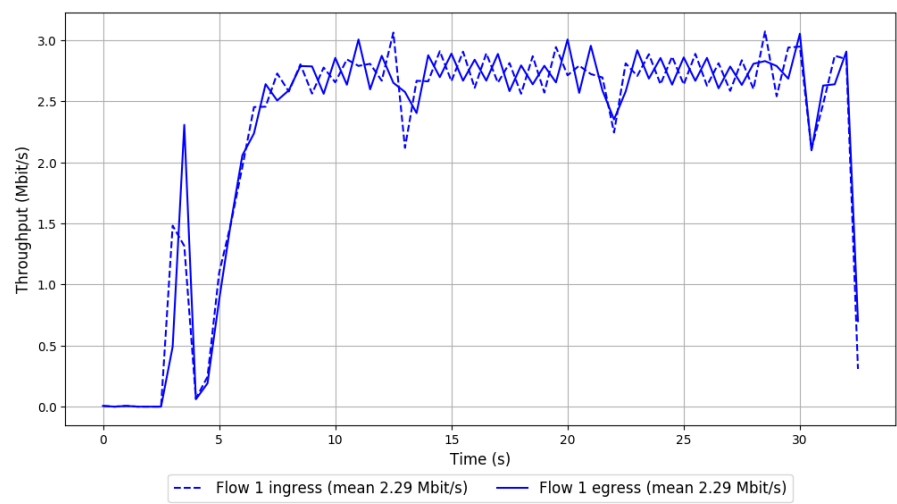
-- Flow 1:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 63.778 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-02-16 18:57:58

End at: 2018-02-16 18:58:28

Below is generated by plot.py at 2018-02-16 21:40:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.30 Mbit/s

95th percentile per-packet one-way delay: 63.625 ms

Loss rate: 0.00%

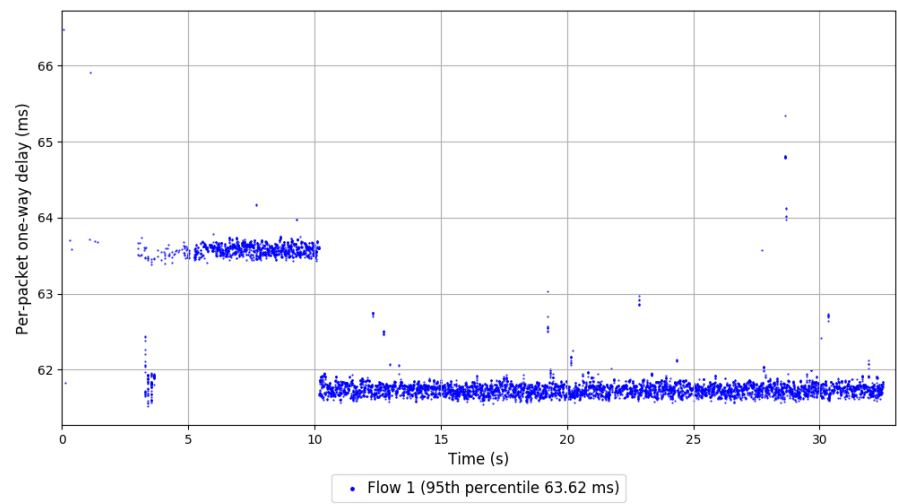
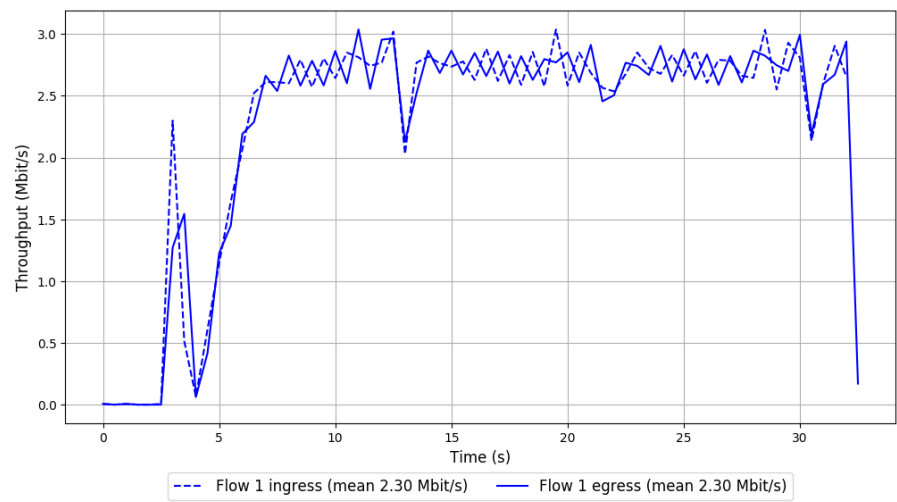
-- Flow 1:

Average throughput: 2.30 Mbit/s

95th percentile per-packet one-way delay: 63.625 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-02-16 19:12:36

End at: 2018-02-16 19:13:06

Below is generated by plot.py at 2018-02-16 21:40:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 63.711 ms

Loss rate: 0.00%

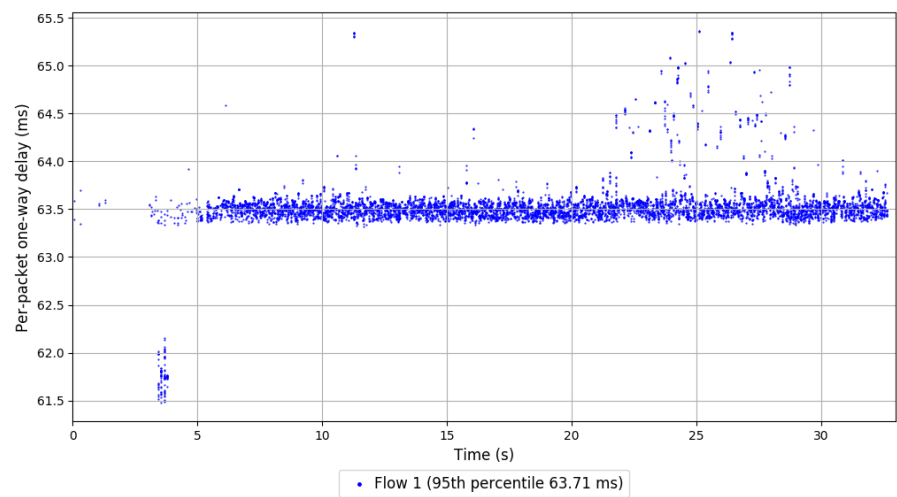
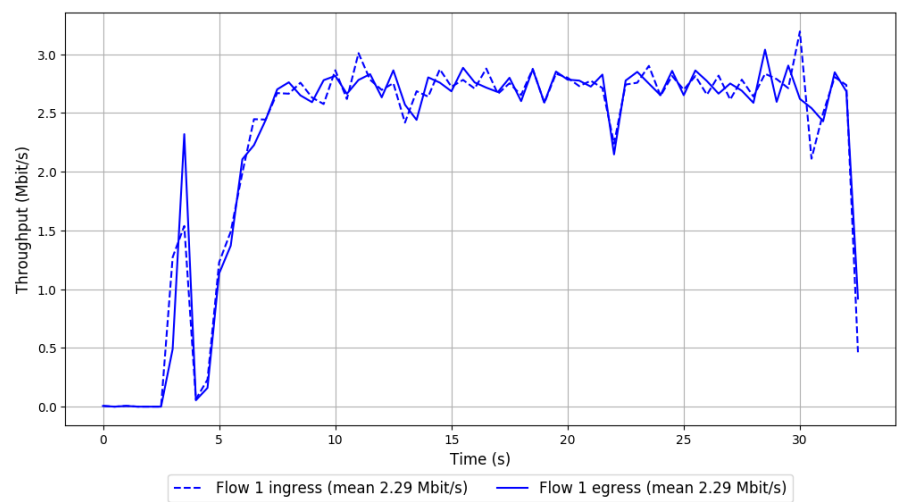
-- Flow 1:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 63.711 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-02-16 19:27:39

End at: 2018-02-16 19:28:09

Below is generated by plot.py at 2018-02-16 21:40:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 64.234 ms

Loss rate: 0.00%

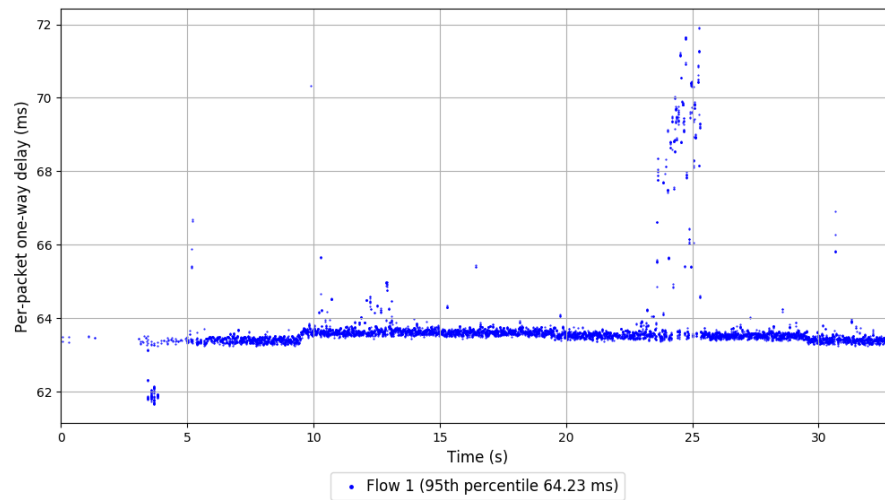
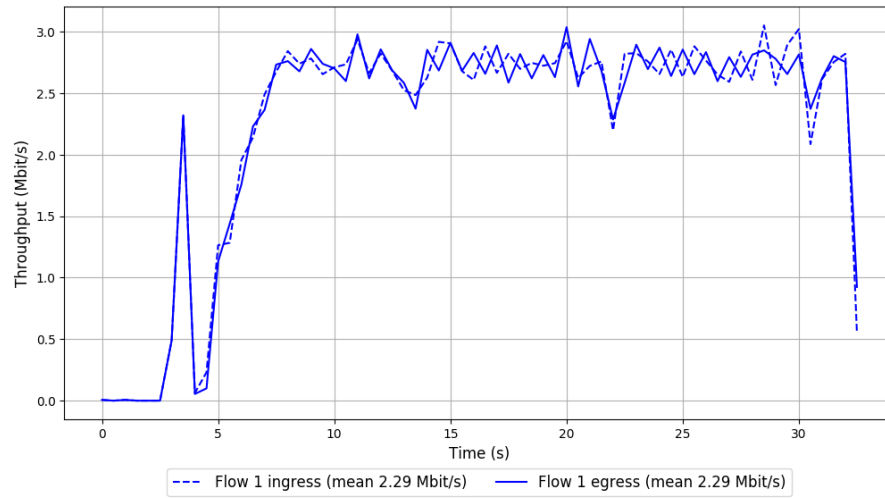
-- Flow 1:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 64.234 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

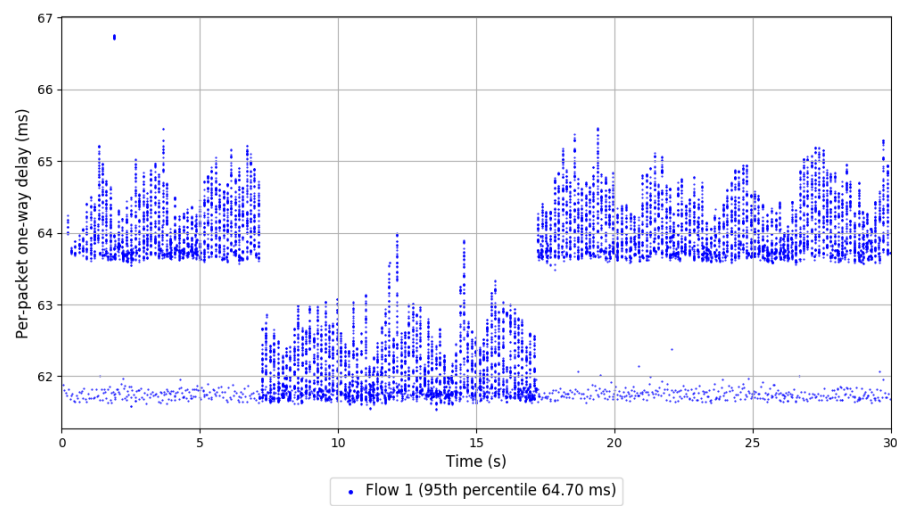
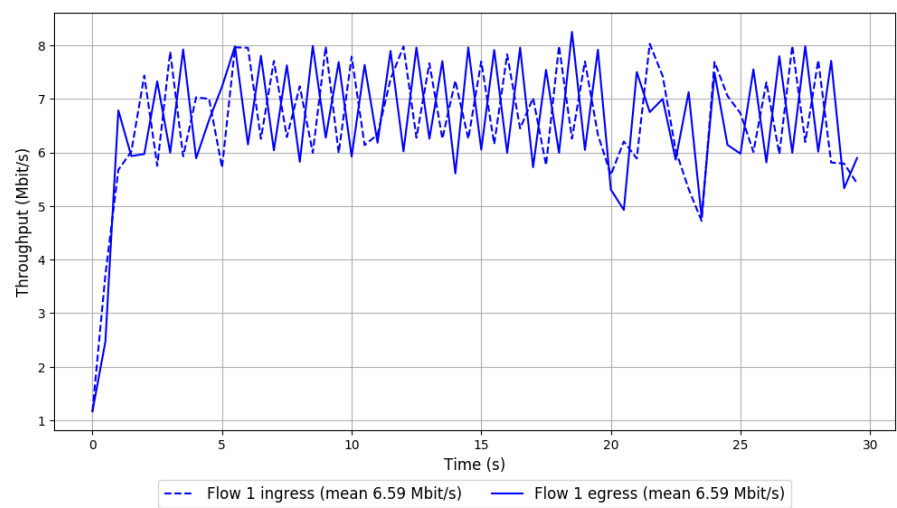


```
Run 1: Statistics of Sprout

Start at: 2018-02-16 17:14:28
End at: 2018-02-16 17:14:58

# Below is generated by plot.py at 2018-02-16 21:40:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.59 Mbit/s
95th percentile per-packet one-way delay: 64.699 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 6.59 Mbit/s
95th percentile per-packet one-way delay: 64.699 ms
Loss rate: 0.00%
```

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-02-16 17:29:14

End at: 2018-02-16 17:29:45

Below is generated by plot.py at 2018-02-16 21:40:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.56 Mbit/s

95th percentile per-packet one-way delay: 64.268 ms

Loss rate: 0.00%

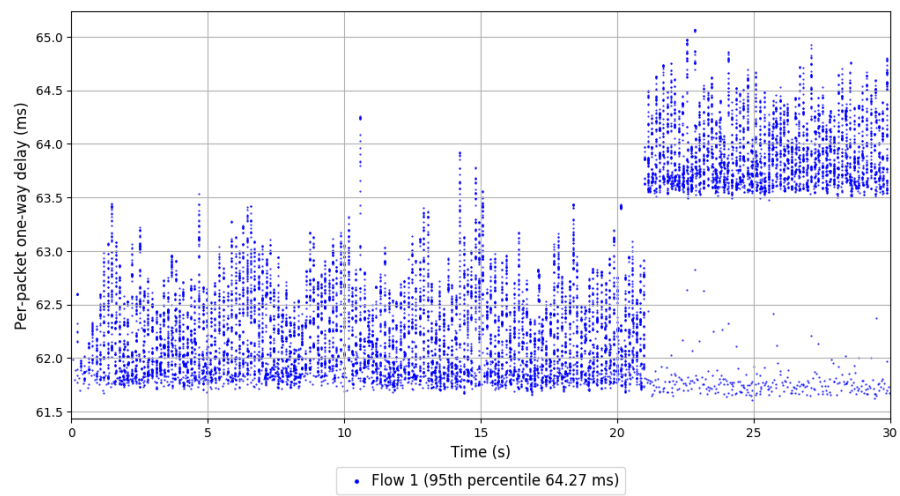
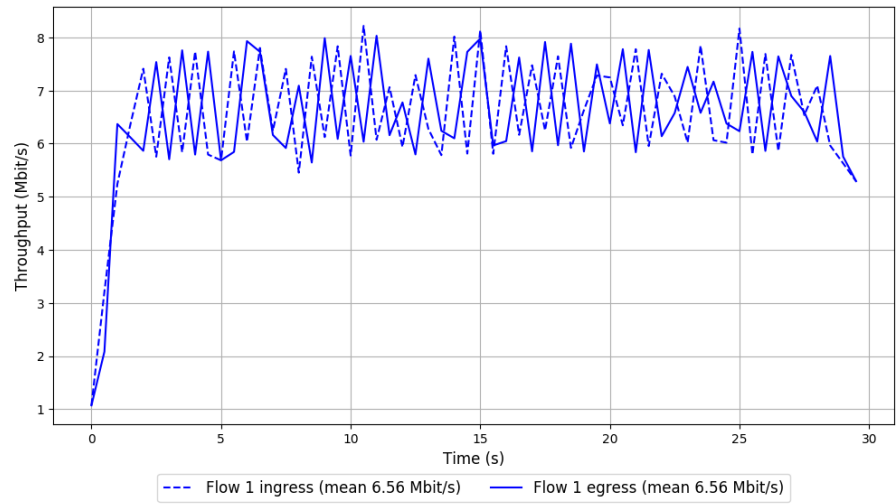
-- Flow 1:

Average throughput: 6.56 Mbit/s

95th percentile per-packet one-way delay: 64.268 ms

Loss rate: 0.00%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-02-16 17:44:22

End at: 2018-02-16 17:44:52

Below is generated by plot.py at 2018-02-16 21:40:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.69 Mbit/s

95th percentile per-packet one-way delay: 63.348 ms

Loss rate: 0.00%

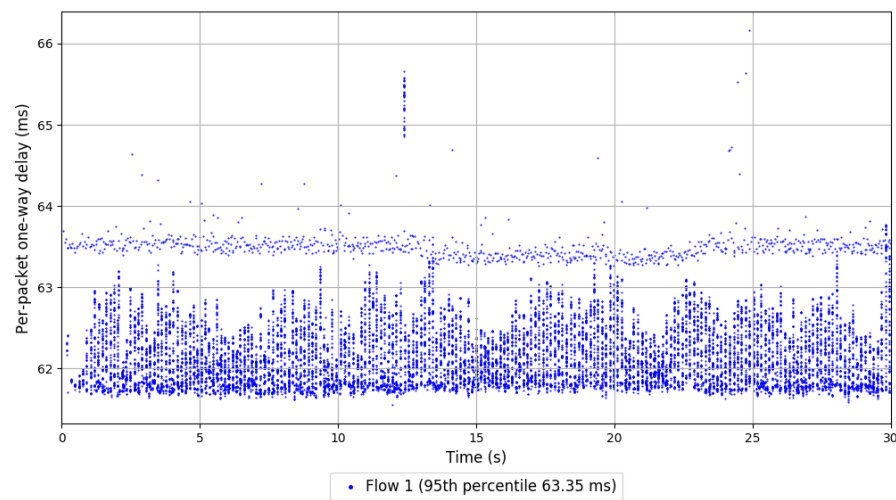
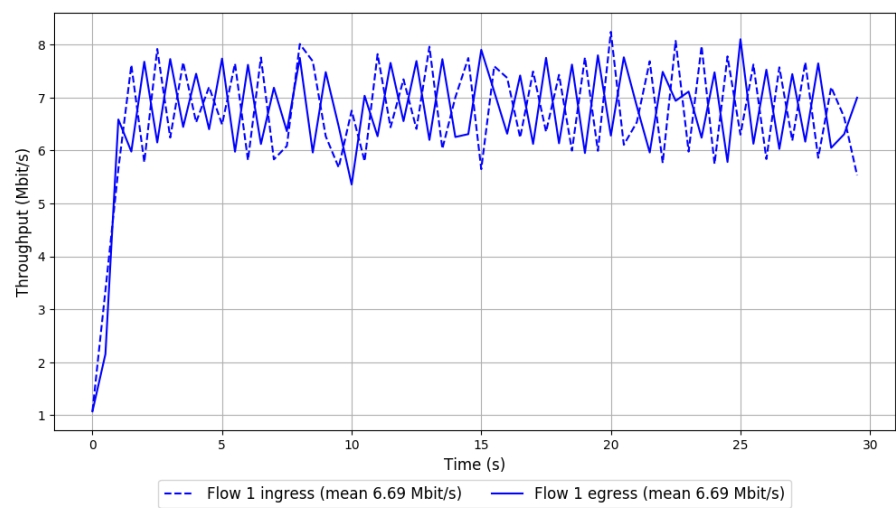
-- Flow 1:

Average throughput: 6.69 Mbit/s

95th percentile per-packet one-way delay: 63.348 ms

Loss rate: 0.00%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-02-16 17:59:14

End at: 2018-02-16 17:59:44

Below is generated by plot.py at 2018-02-16 21:40:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.61 Mbit/s

95th percentile per-packet one-way delay: 64.598 ms

Loss rate: 0.00%

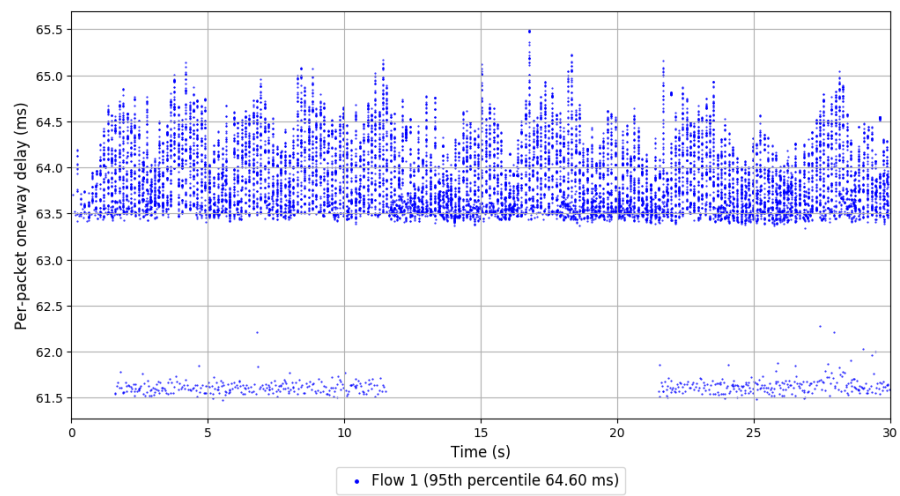
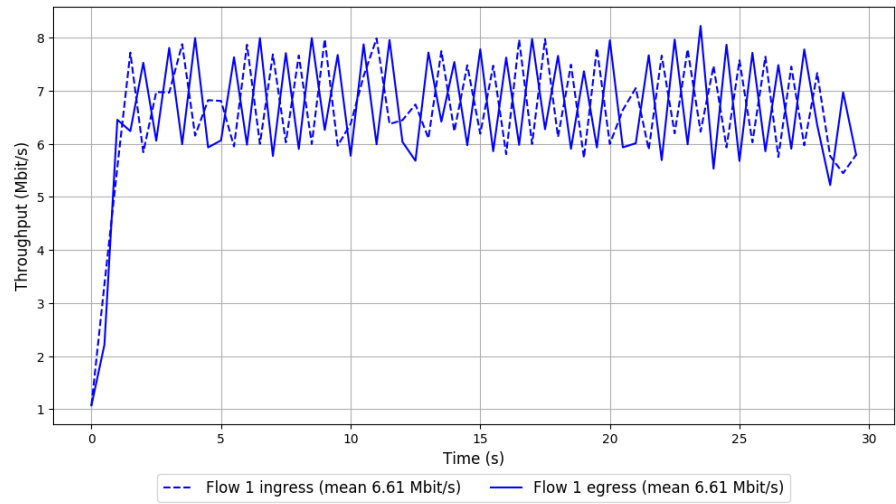
-- Flow 1:

Average throughput: 6.61 Mbit/s

95th percentile per-packet one-way delay: 64.598 ms

Loss rate: 0.00%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-02-16 18:14:00

End at: 2018-02-16 18:14:30

Below is generated by plot.py at 2018-02-16 21:40:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.52 Mbit/s

95th percentile per-packet one-way delay: 64.623 ms

Loss rate: 0.00%

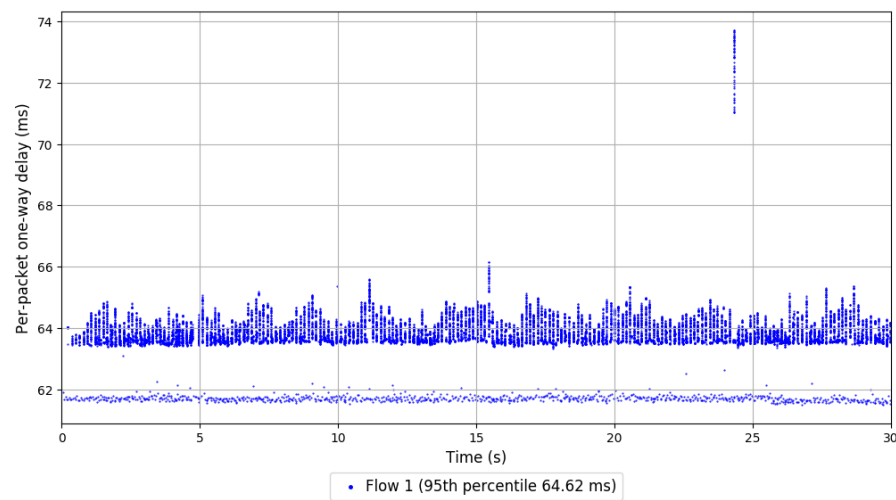
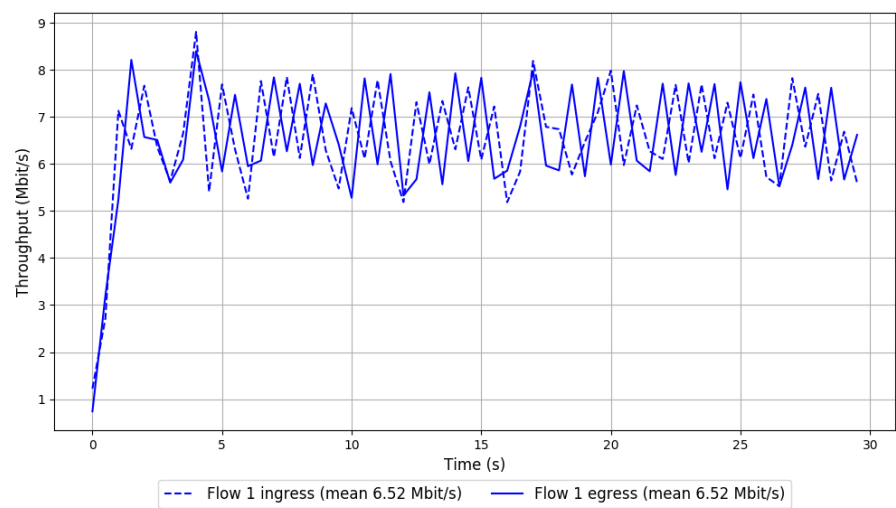
-- Flow 1:

Average throughput: 6.52 Mbit/s

95th percentile per-packet one-way delay: 64.623 ms

Loss rate: 0.00%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-02-16 18:28:57

End at: 2018-02-16 18:29:27

Below is generated by plot.py at 2018-02-16 21:40:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.48 Mbit/s

95th percentile per-packet one-way delay: 64.887 ms

Loss rate: 0.00%

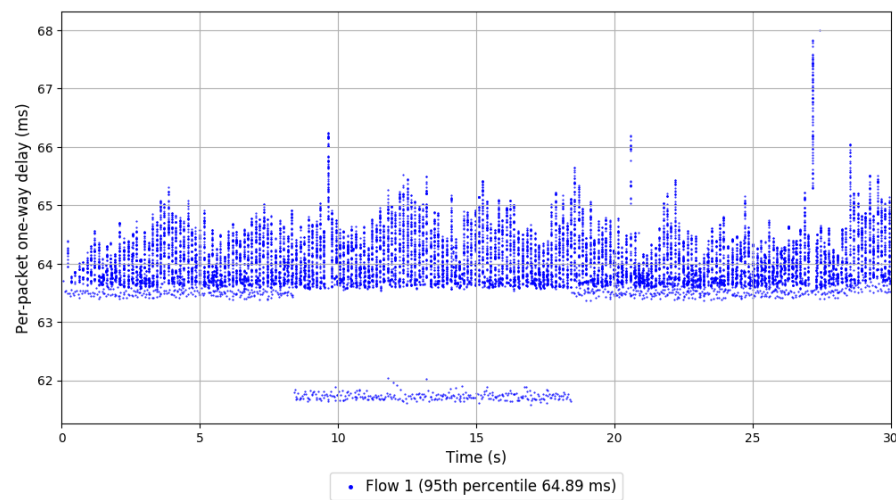
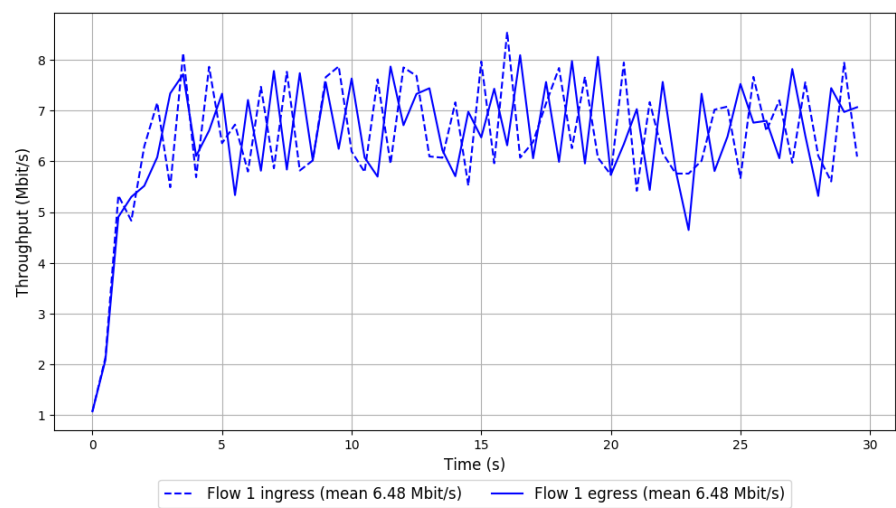
-- Flow 1:

Average throughput: 6.48 Mbit/s

95th percentile per-packet one-way delay: 64.887 ms

Loss rate: 0.00%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-02-16 18:43:45

End at: 2018-02-16 18:44:15

Below is generated by plot.py at 2018-02-16 21:40:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.50 Mbit/s

95th percentile per-packet one-way delay: 64.983 ms

Loss rate: 0.00%

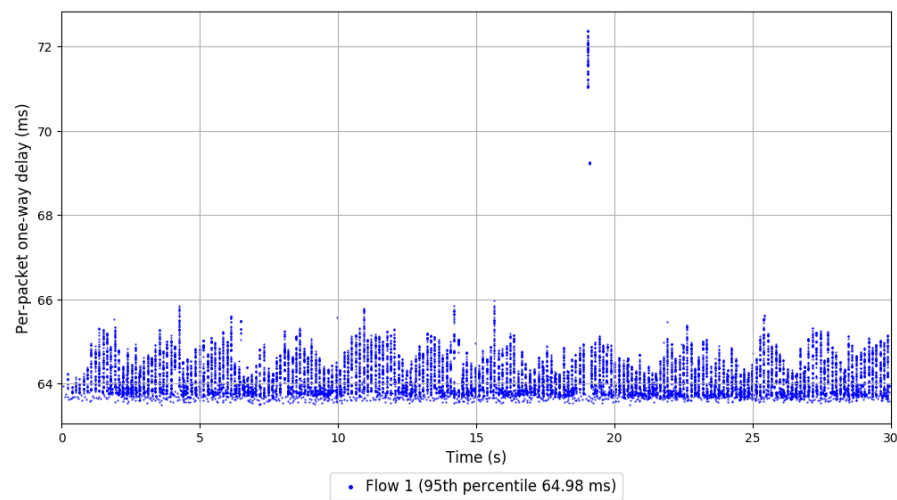
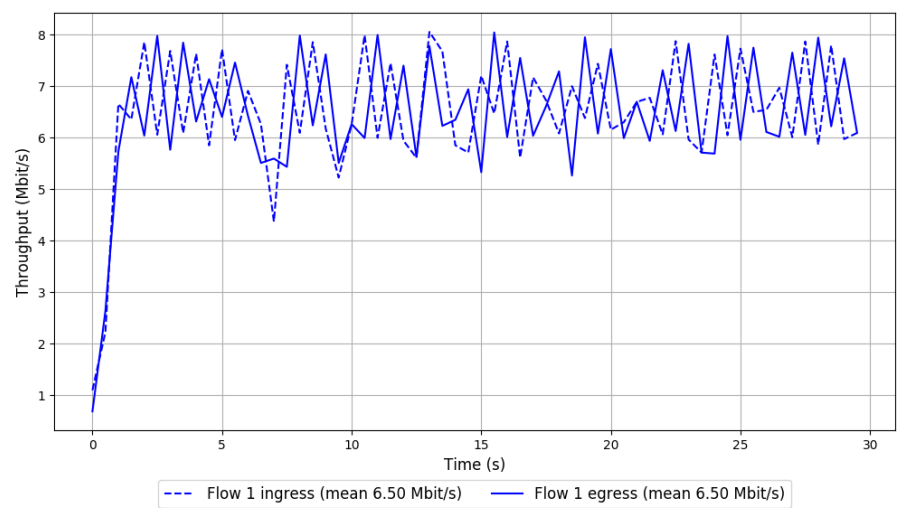
-- Flow 1:

Average throughput: 6.50 Mbit/s

95th percentile per-packet one-way delay: 64.983 ms

Loss rate: 0.00%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-02-16 18:58:36

End at: 2018-02-16 18:59:06

Below is generated by plot.py at 2018-02-16 21:40:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.69 Mbit/s

95th percentile per-packet one-way delay: 63.174 ms

Loss rate: 0.00%

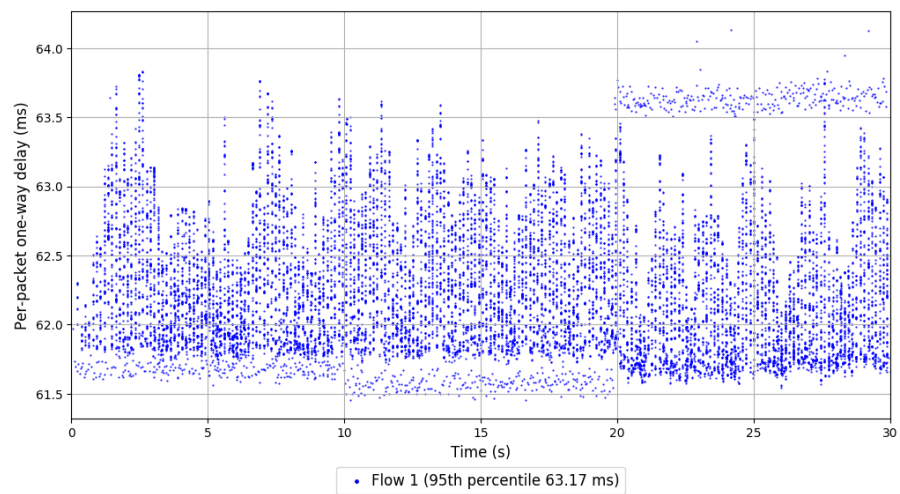
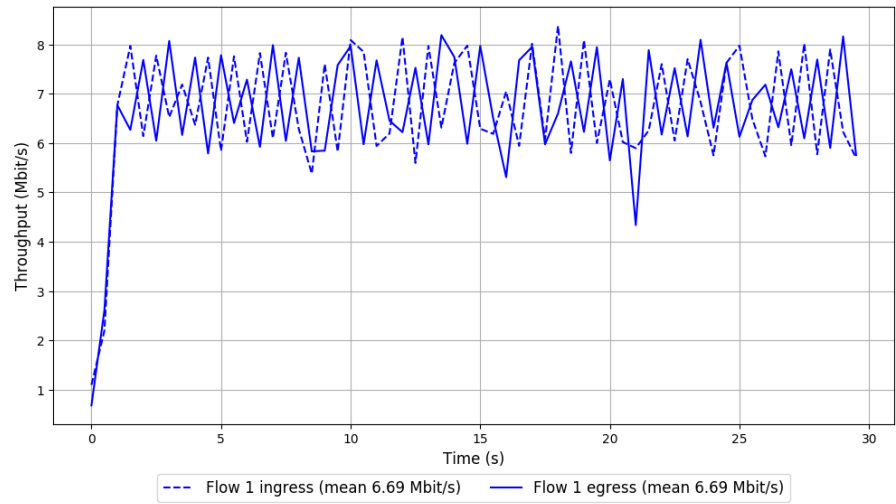
-- Flow 1:

Average throughput: 6.69 Mbit/s

95th percentile per-packet one-way delay: 63.174 ms

Loss rate: 0.00%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-02-16 19:13:14

End at: 2018-02-16 19:13:44

Below is generated by plot.py at 2018-02-16 21:40:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.59 Mbit/s

95th percentile per-packet one-way delay: 64.306 ms

Loss rate: 0.00%

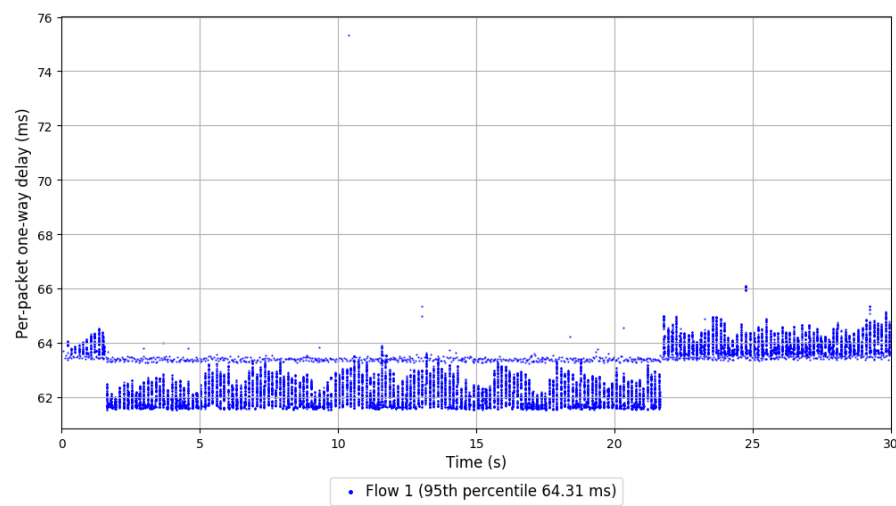
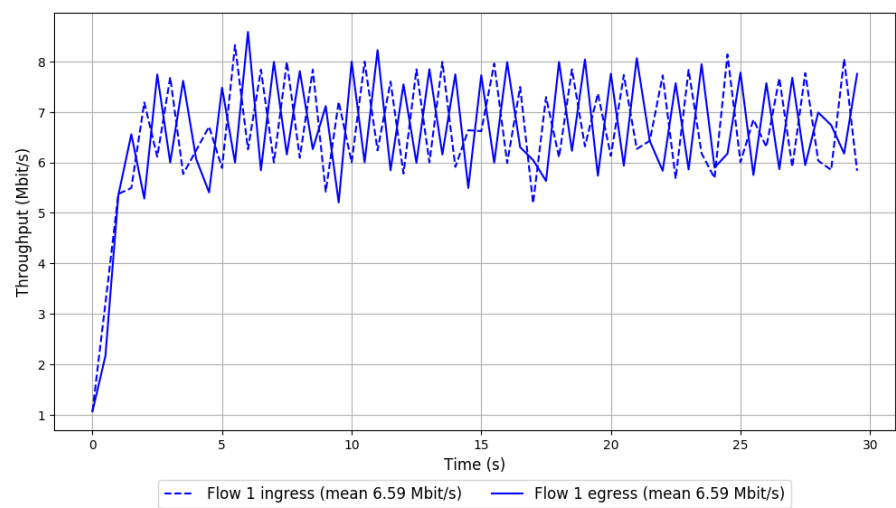
-- Flow 1:

Average throughput: 6.59 Mbit/s

95th percentile per-packet one-way delay: 64.306 ms

Loss rate: 0.00%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-02-16 19:28:16

End at: 2018-02-16 19:28:46

Below is generated by plot.py at 2018-02-16 21:40:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.66 Mbit/s

95th percentile per-packet one-way delay: 64.758 ms

Loss rate: 0.00%

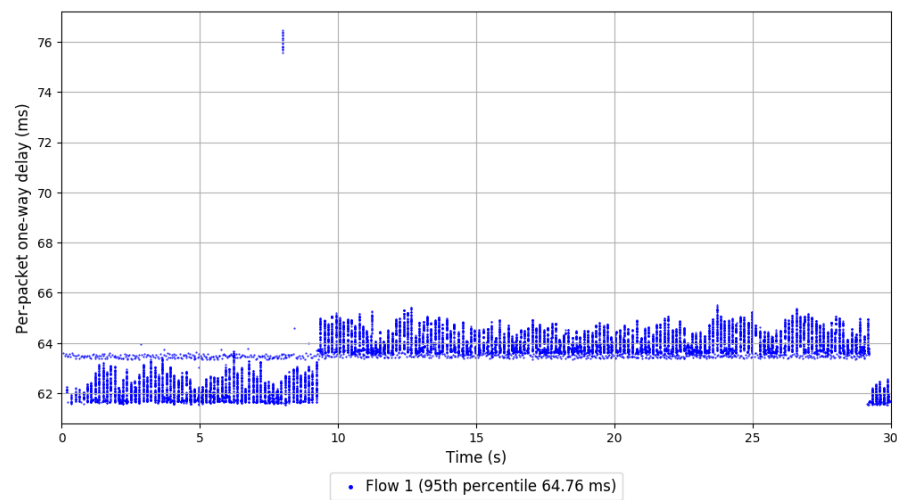
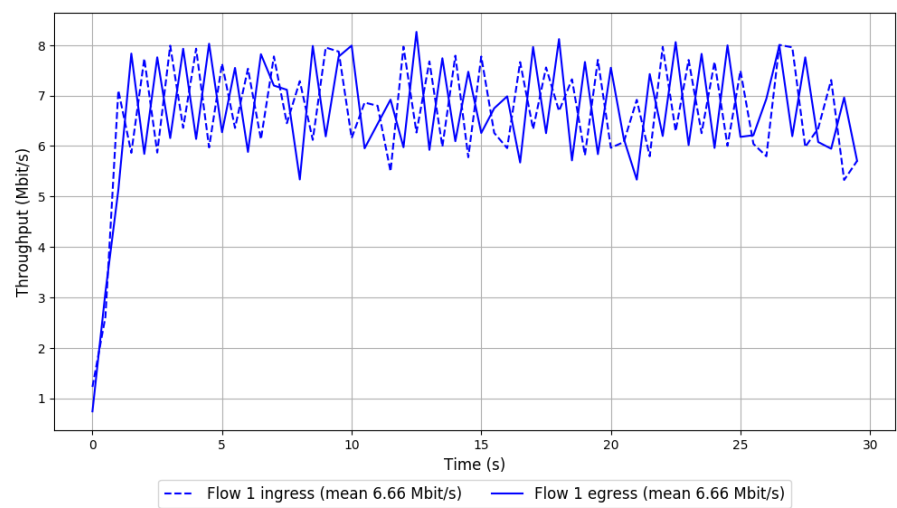
-- Flow 1:

Average throughput: 6.66 Mbit/s

95th percentile per-packet one-way delay: 64.758 ms

Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

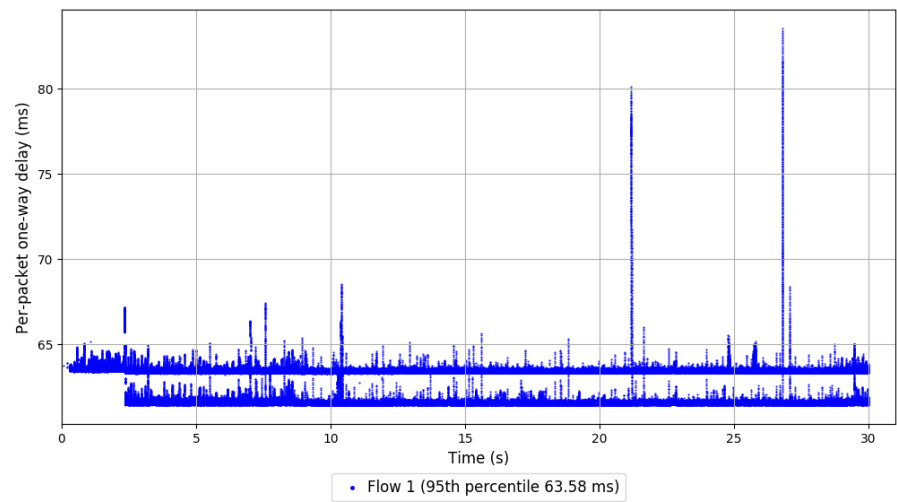
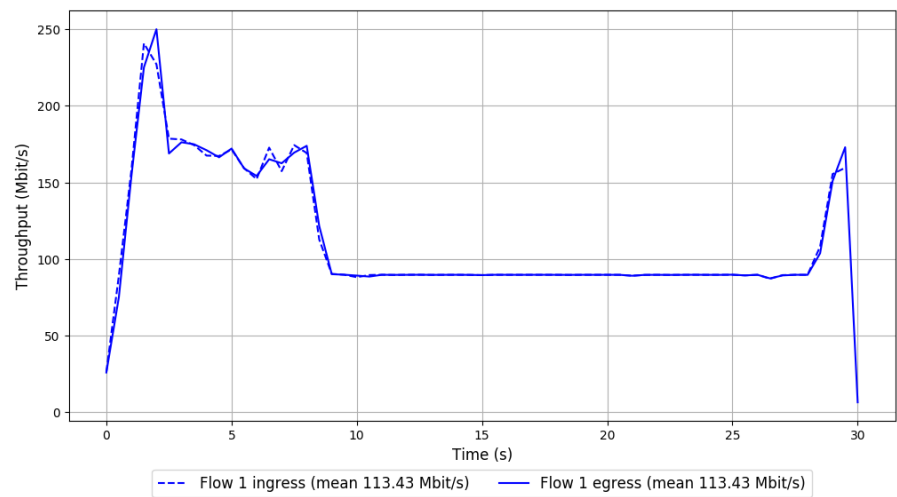


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-02-16 17:13:03
End at: 2018-02-16 17:13:33

# Below is generated by plot.py at 2018-02-16 21:40:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 113.43 Mbit/s
95th percentile per-packet one-way delay: 63.580 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 113.43 Mbit/s
95th percentile per-packet one-way delay: 63.580 ms
Loss rate: 0.00%
```

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

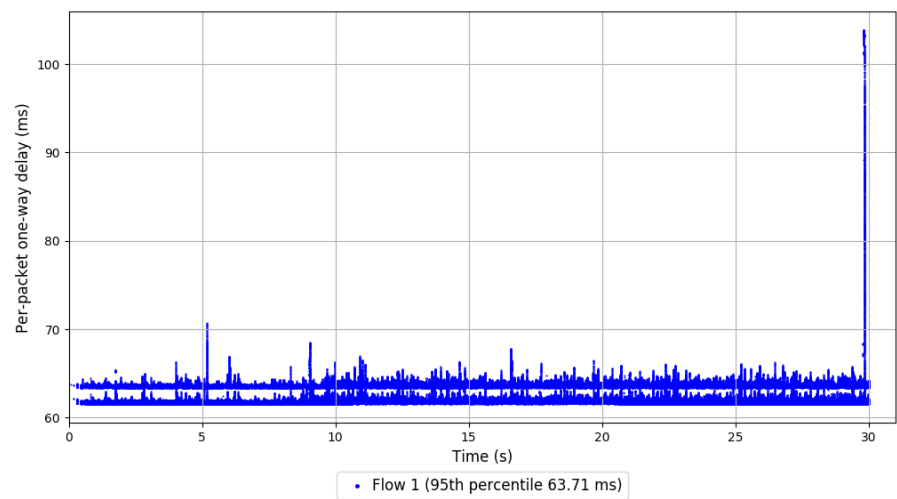
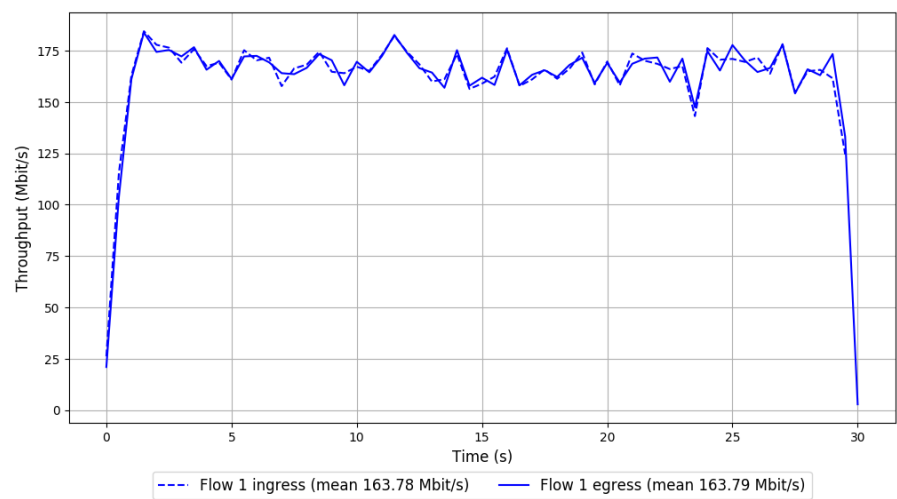


```
Run 2: Statistics of TaoVA-100x

Start at: 2018-02-16 17:27:45
End at: 2018-02-16 17:28:15

# Below is generated by plot.py at 2018-02-16 21:42:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 163.79 Mbit/s
95th percentile per-packet one-way delay: 63.710 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 163.79 Mbit/s
95th percentile per-packet one-way delay: 63.710 ms
Loss rate: 0.00%
```

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-02-16 17:42:48

End at: 2018-02-16 17:43:18

Below is generated by plot.py at 2018-02-16 21:44:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 210.31 Mbit/s

95th percentile per-packet one-way delay: 61.858 ms

Loss rate: 0.00%

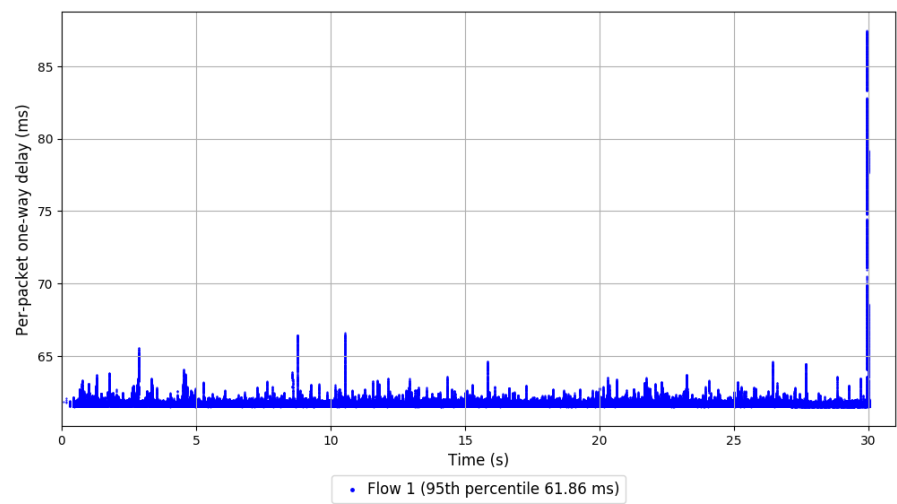
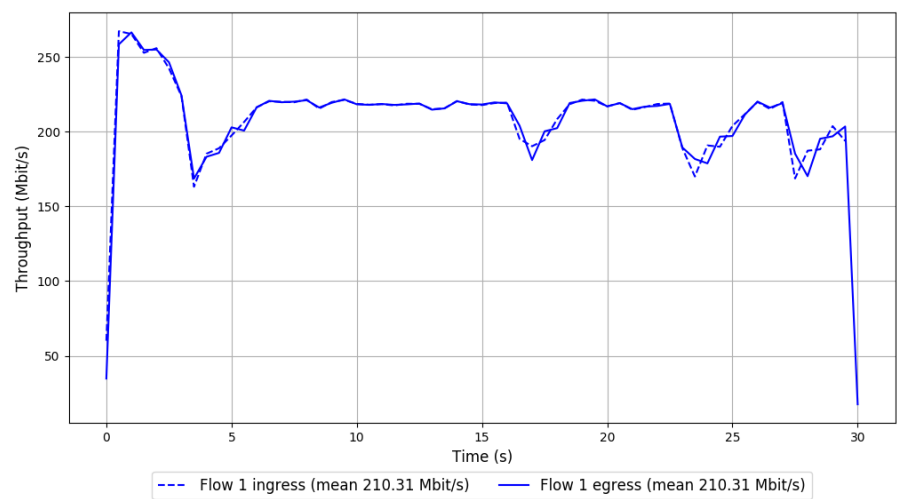
-- Flow 1:

Average throughput: 210.31 Mbit/s

95th percentile per-packet one-way delay: 61.858 ms

Loss rate: 0.00%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-02-16 17:57:51

End at: 2018-02-16 17:58:21

Below is generated by plot.py at 2018-02-16 21:44:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 80.34 Mbit/s

95th percentile per-packet one-way delay: 63.669 ms

Loss rate: 0.02%

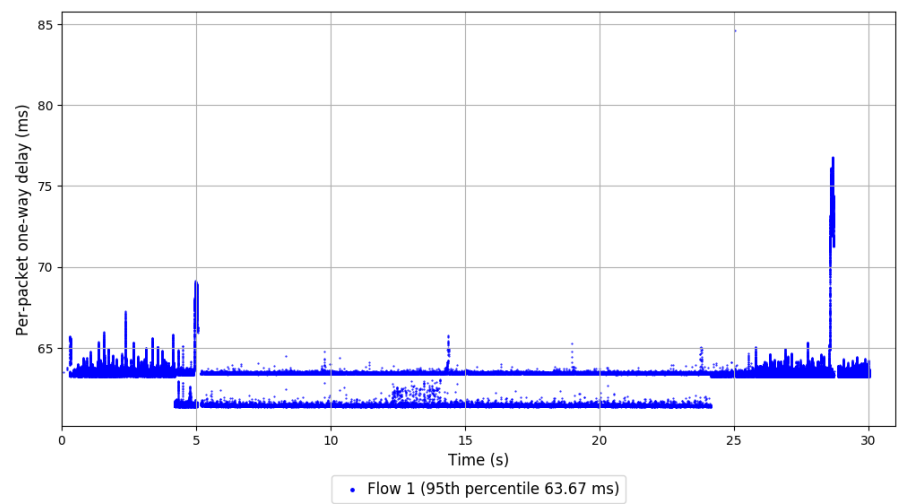
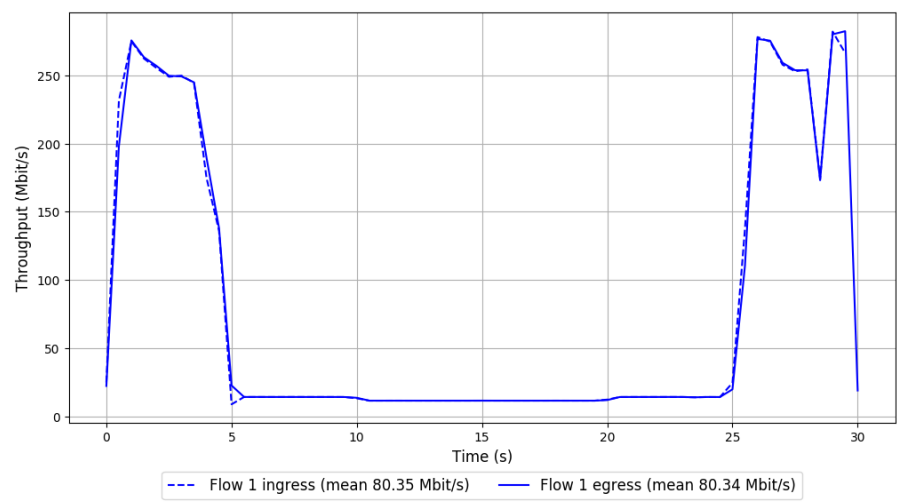
-- Flow 1:

Average throughput: 80.34 Mbit/s

95th percentile per-packet one-way delay: 63.669 ms

Loss rate: 0.02%

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

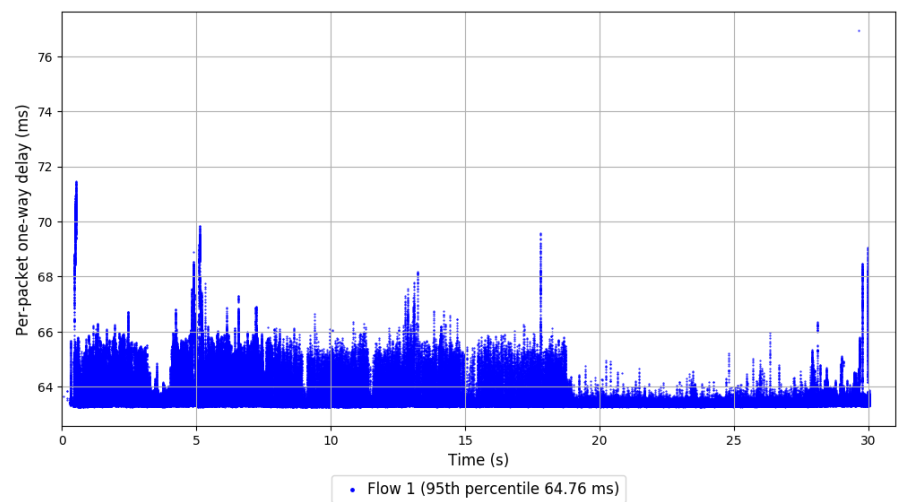
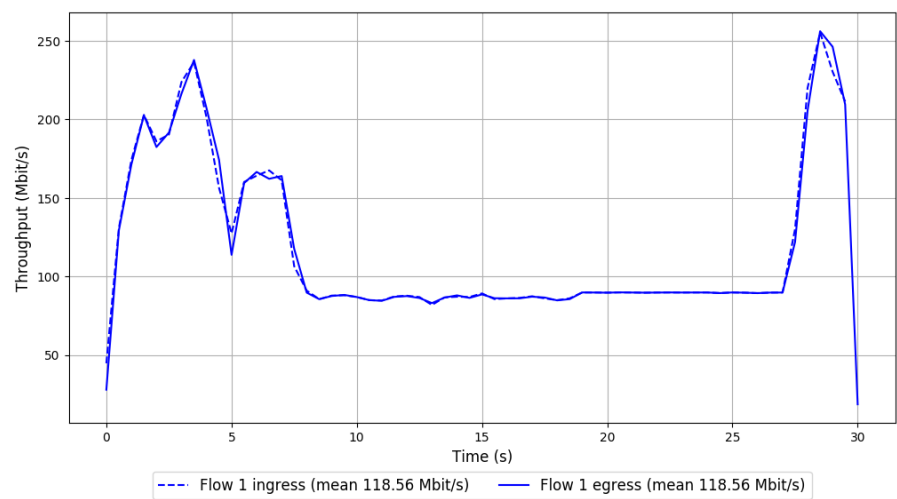


```
Run 5: Statistics of TaoVA-100x

Start at: 2018-02-16 18:12:34
End at: 2018-02-16 18:13:04

# Below is generated by plot.py at 2018-02-16 21:44:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 118.56 Mbit/s
95th percentile per-packet one-way delay: 64.758 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 118.56 Mbit/s
95th percentile per-packet one-way delay: 64.758 ms
Loss rate: 0.01%
```

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-02-16 18:27:28

End at: 2018-02-16 18:27:58

Below is generated by plot.py at 2018-02-16 21:44:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 152.45 Mbit/s

95th percentile per-packet one-way delay: 63.902 ms

Loss rate: 0.01%

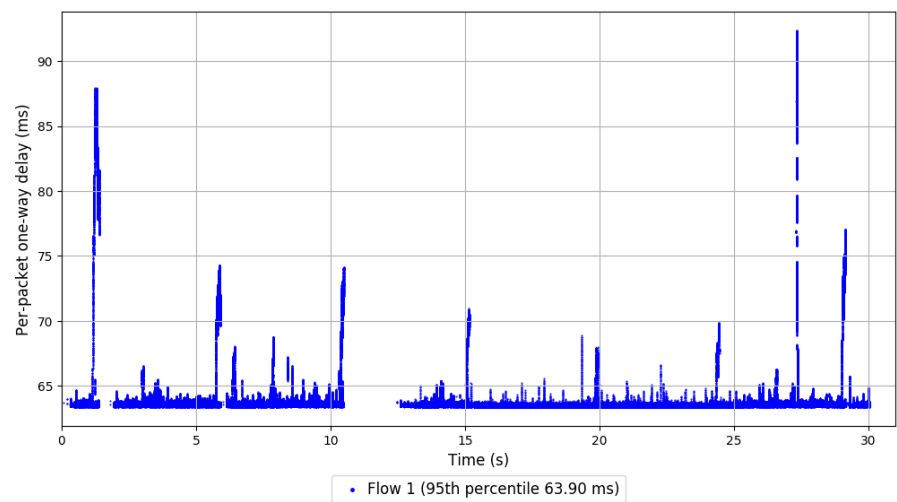
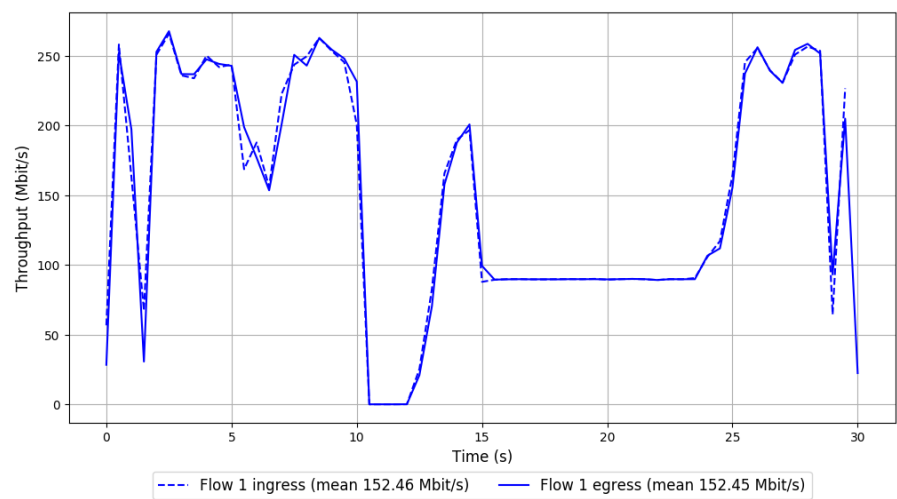
-- Flow 1:

Average throughput: 152.45 Mbit/s

95th percentile per-packet one-way delay: 63.902 ms

Loss rate: 0.01%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-02-16 18:42:24

End at: 2018-02-16 18:42:54

Below is generated by plot.py at 2018-02-16 21:44:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 67.72 Mbit/s

95th percentile per-packet one-way delay: 64.019 ms

Loss rate: 0.00%

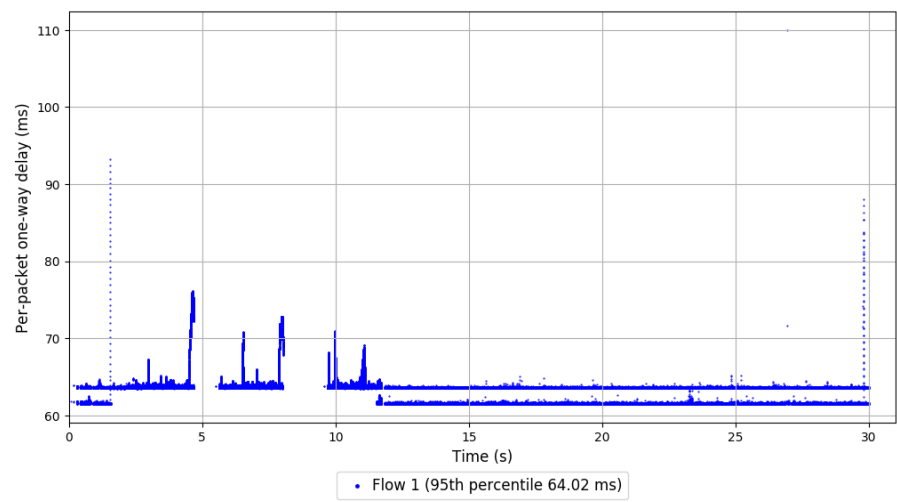
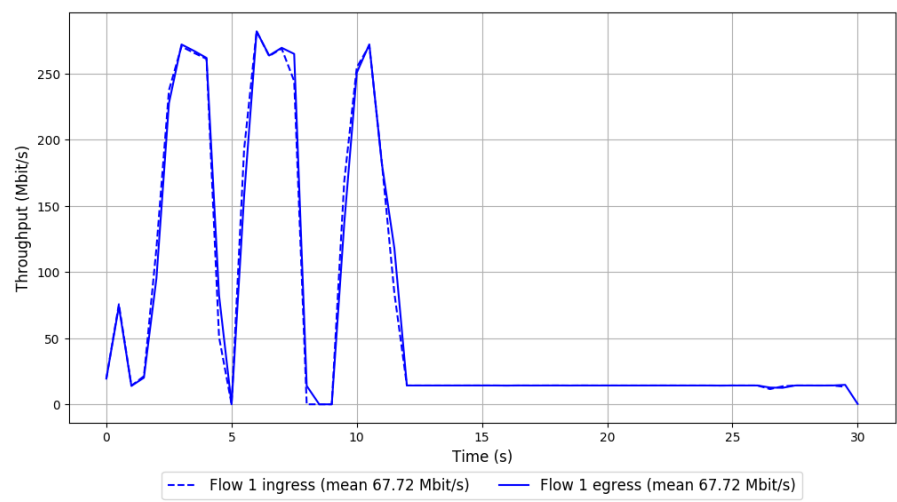
-- Flow 1:

Average throughput: 67.72 Mbit/s

95th percentile per-packet one-way delay: 64.019 ms

Loss rate: 0.00%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-02-16 18:57:12

End at: 2018-02-16 18:57:42

Below is generated by plot.py at 2018-02-16 21:44:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.66 Mbit/s

95th percentile per-packet one-way delay: 63.579 ms

Loss rate: 0.00%

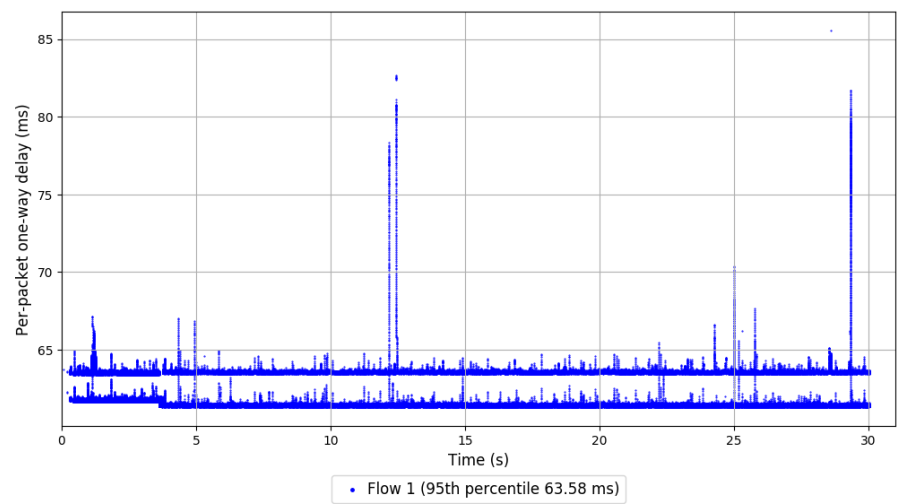
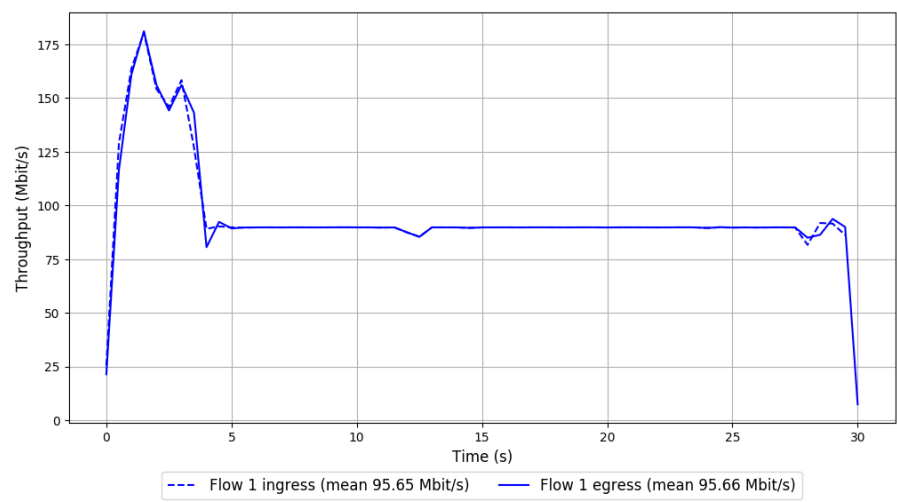
-- Flow 1:

Average throughput: 95.66 Mbit/s

95th percentile per-packet one-way delay: 63.579 ms

Loss rate: 0.00%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-02-16 19:11:46

End at: 2018-02-16 19:12:16

Below is generated by plot.py at 2018-02-16 21:45:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 152.74 Mbit/s

95th percentile per-packet one-way delay: 63.567 ms

Loss rate: 0.00%

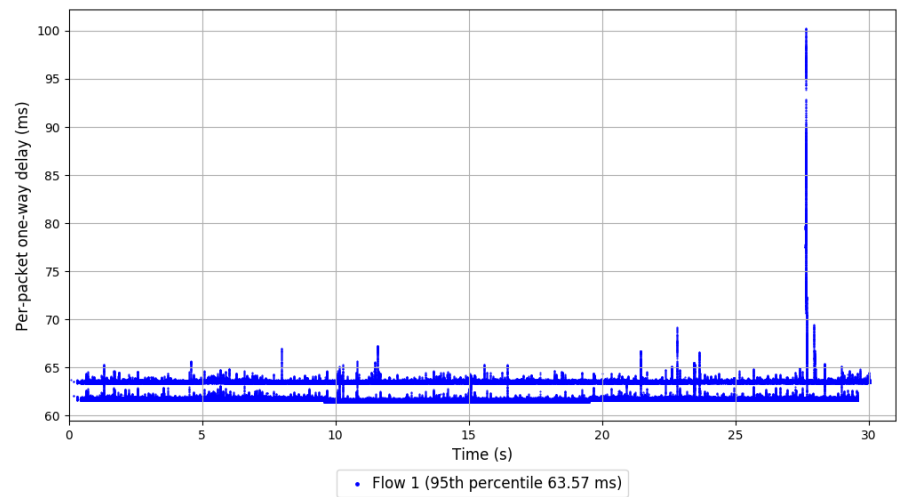
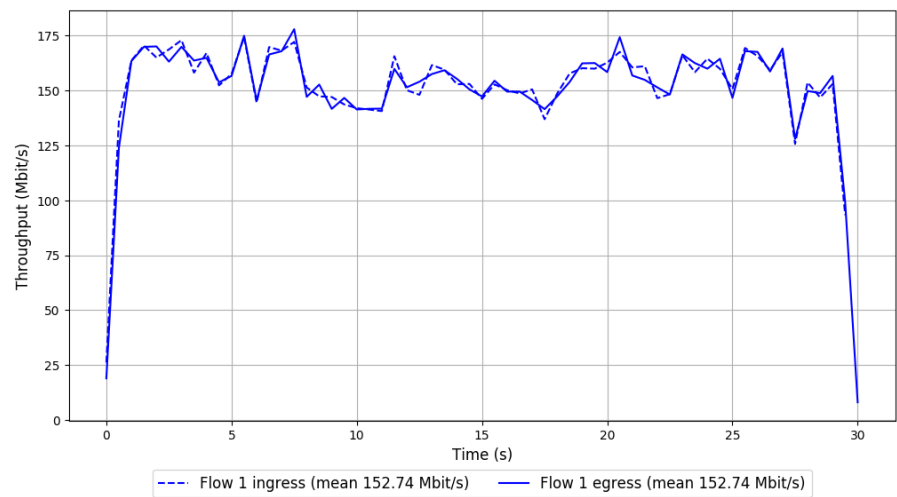
-- Flow 1:

Average throughput: 152.74 Mbit/s

95th percentile per-packet one-way delay: 63.567 ms

Loss rate: 0.00%

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

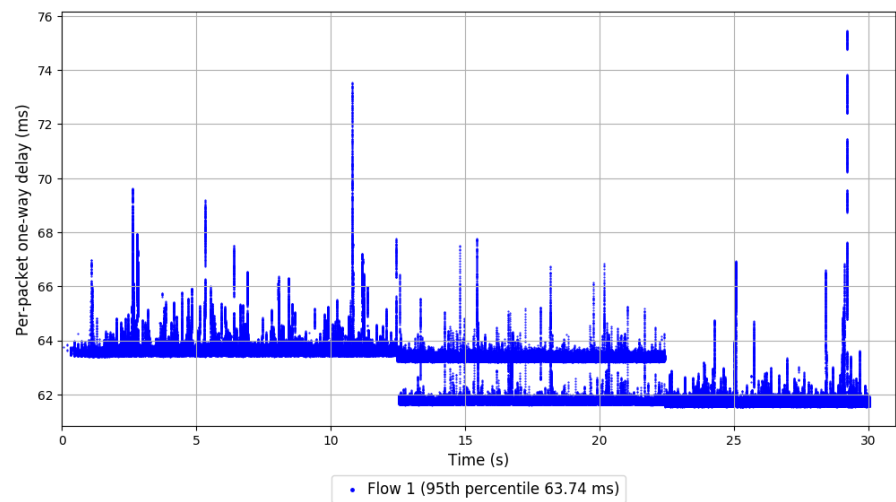
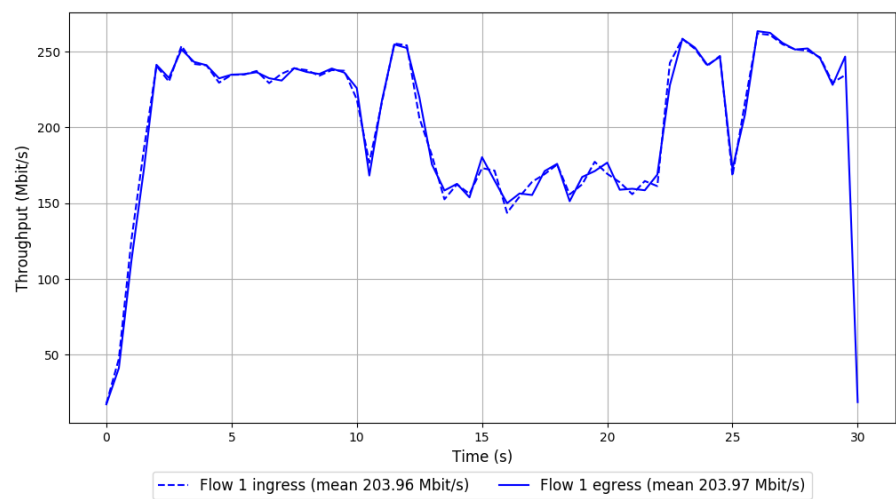


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-02-16 19:26:43
End at: 2018-02-16 19:27:13

# Below is generated by plot.py at 2018-02-16 21:47:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 203.97 Mbit/s
95th percentile per-packet one-way delay: 63.739 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 203.97 Mbit/s
95th percentile per-packet one-way delay: 63.739 ms
Loss rate: 0.00%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2018-02-16 17:12:19

End at: 2018-02-16 17:12:49

Below is generated by plot.py at 2018-02-16 21:47:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 139.71 Mbit/s

95th percentile per-packet one-way delay: 65.022 ms

Loss rate: 0.01%

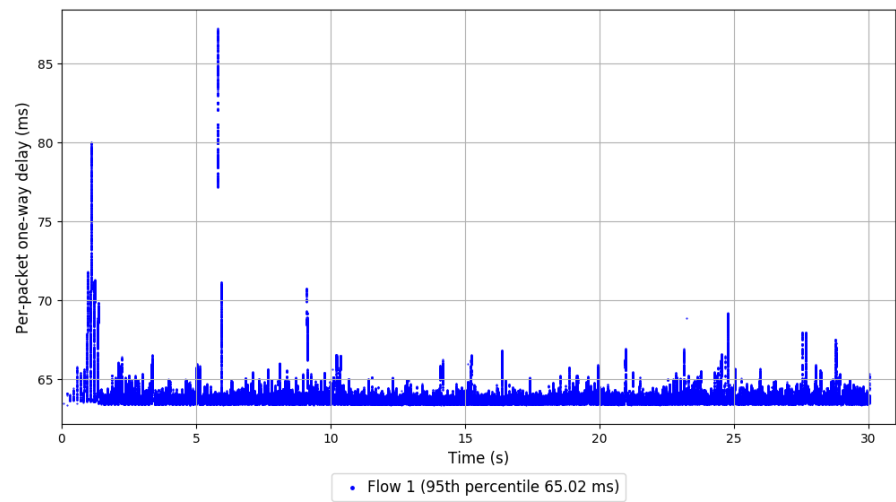
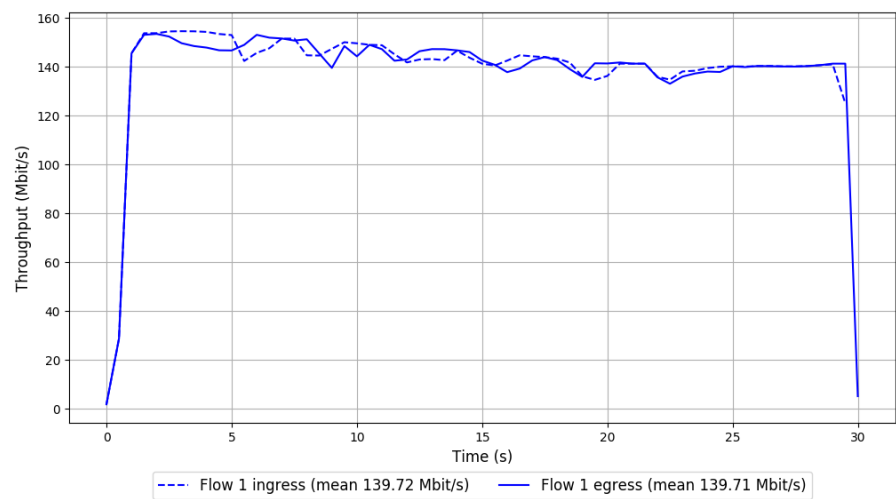
-- Flow 1:

Average throughput: 139.71 Mbit/s

95th percentile per-packet one-way delay: 65.022 ms

Loss rate: 0.01%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-02-16 17:27:05

End at: 2018-02-16 17:27:35

Below is generated by plot.py at 2018-02-16 21:47:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 52.56 Mbit/s

95th percentile per-packet one-way delay: 62.848 ms

Loss rate: 0.00%

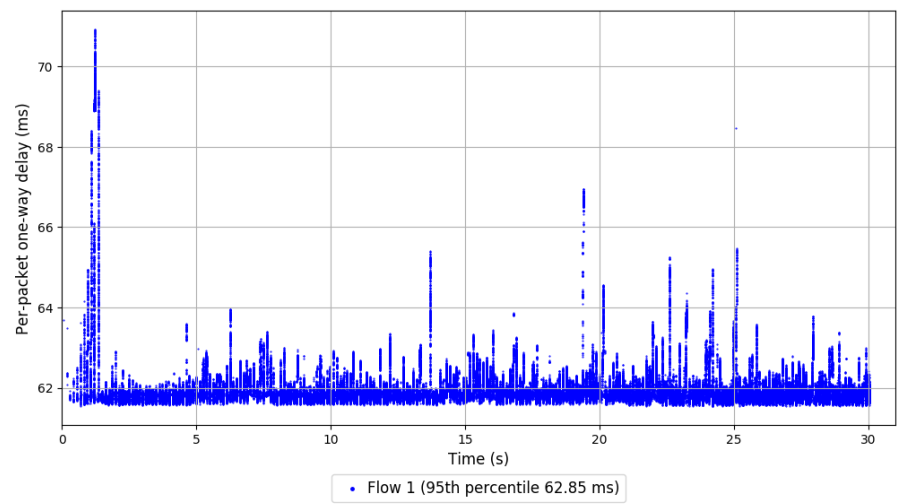
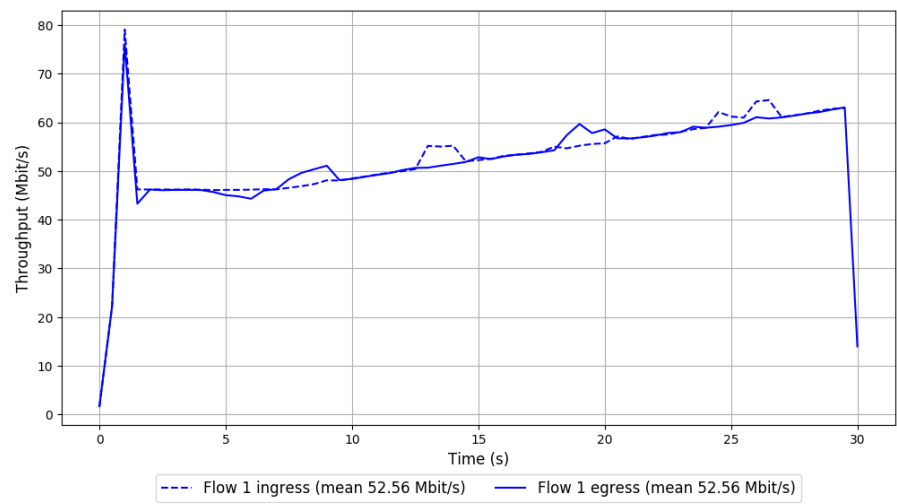
-- Flow 1:

Average throughput: 52.56 Mbit/s

95th percentile per-packet one-way delay: 62.848 ms

Loss rate: 0.00%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-02-16 17:42:03

End at: 2018-02-16 17:42:33

Below is generated by plot.py at 2018-02-16 21:47:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 150.22 Mbit/s

95th percentile per-packet one-way delay: 73.359 ms

Loss rate: 0.00%

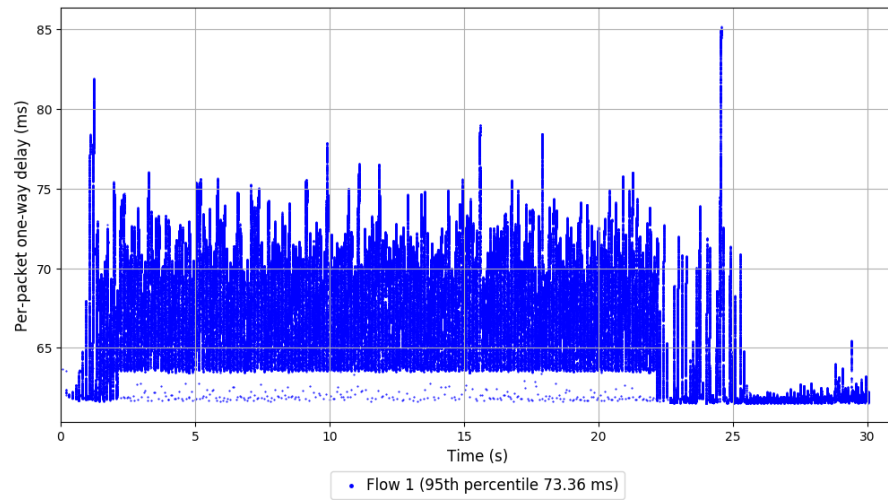
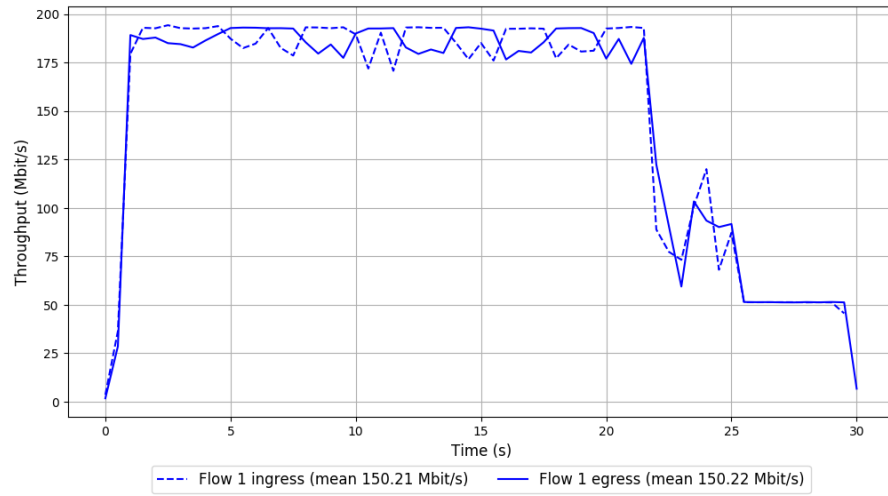
-- Flow 1:

Average throughput: 150.22 Mbit/s

95th percentile per-packet one-way delay: 73.359 ms

Loss rate: 0.00%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-02-16 17:57:05

End at: 2018-02-16 17:57:35

Below is generated by plot.py at 2018-02-16 21:47:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 181.97 Mbit/s

95th percentile per-packet one-way delay: 74.449 ms

Loss rate: 0.00%

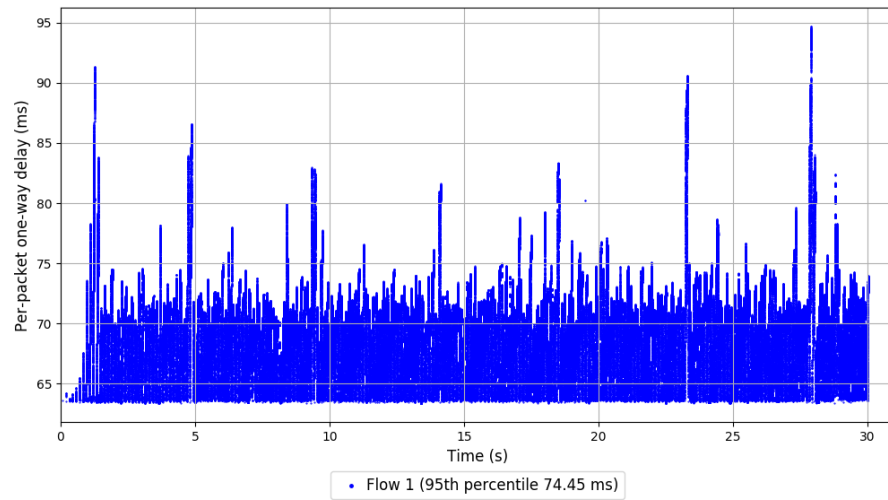
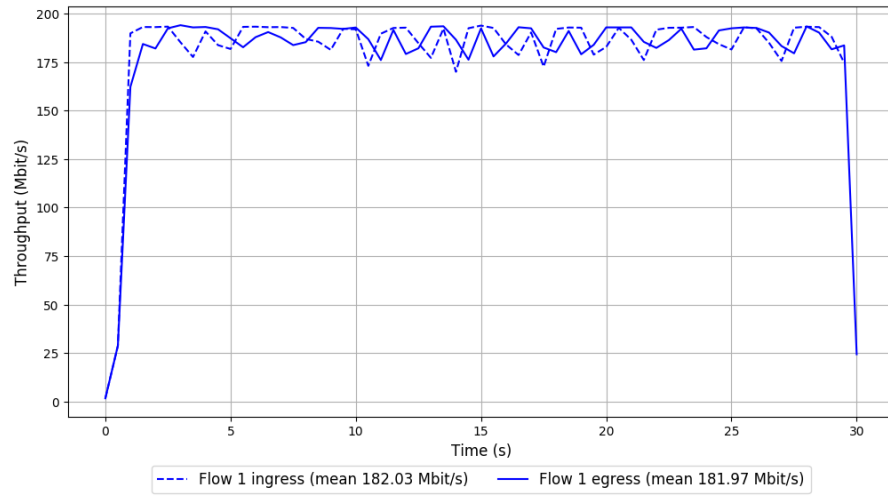
-- Flow 1:

Average throughput: 181.97 Mbit/s

95th percentile per-packet one-way delay: 74.449 ms

Loss rate: 0.00%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-02-16 18:11:55

End at: 2018-02-16 18:12:25

Below is generated by plot.py at 2018-02-16 21:47:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 36.61 Mbit/s

95th percentile per-packet one-way delay: 64.448 ms

Loss rate: 0.00%

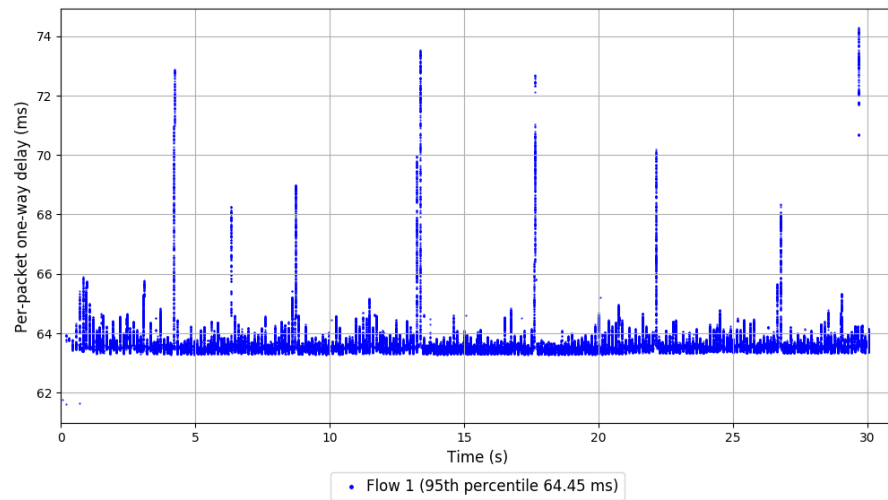
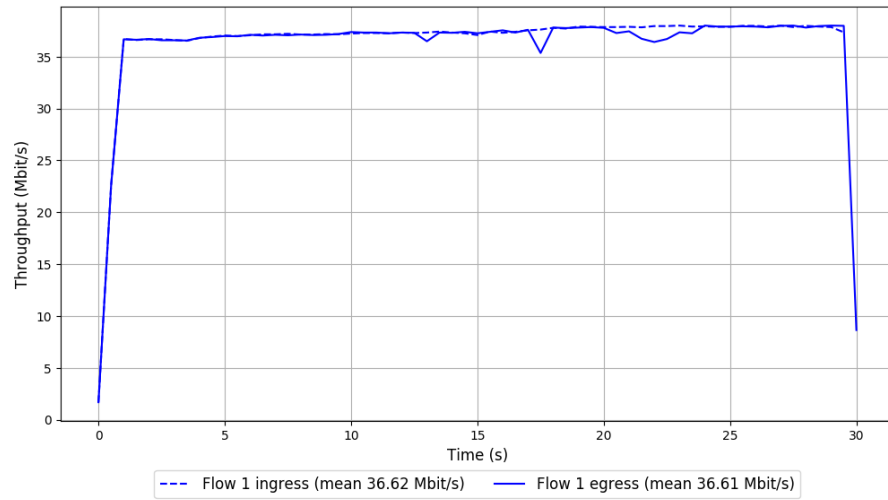
-- Flow 1:

Average throughput: 36.61 Mbit/s

95th percentile per-packet one-way delay: 64.448 ms

Loss rate: 0.00%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-02-16 18:26:45

End at: 2018-02-16 18:27:15

Below is generated by plot.py at 2018-02-16 21:47:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.58 Mbit/s

95th percentile per-packet one-way delay: 74.640 ms

Loss rate: 0.00%

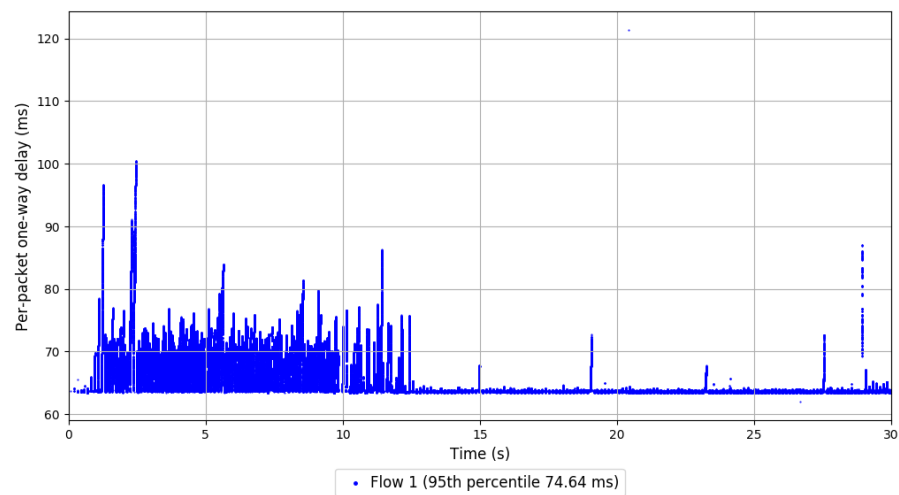
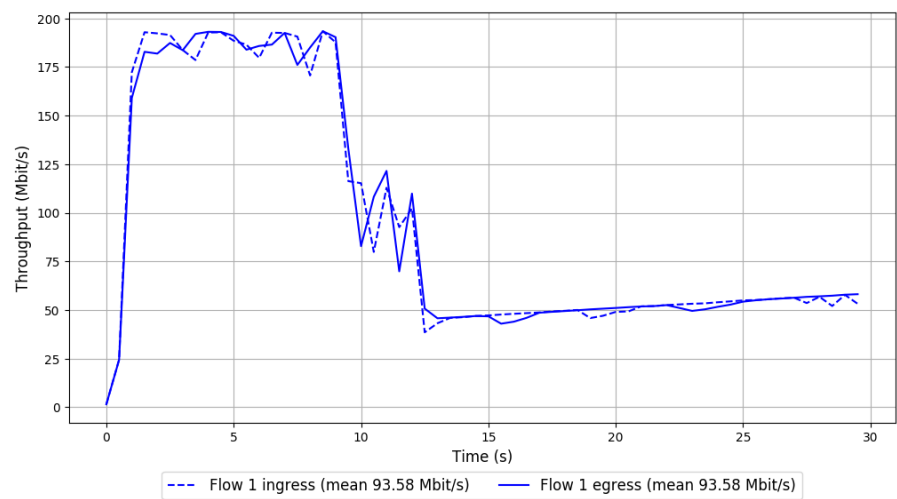
-- Flow 1:

Average throughput: 93.58 Mbit/s

95th percentile per-packet one-way delay: 74.640 ms

Loss rate: 0.00%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-02-16 18:41:45

End at: 2018-02-16 18:42:15

Below is generated by plot.py at 2018-02-16 21:47:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 28.28 Mbit/s

95th percentile per-packet one-way delay: 64.640 ms

Loss rate: 0.00%

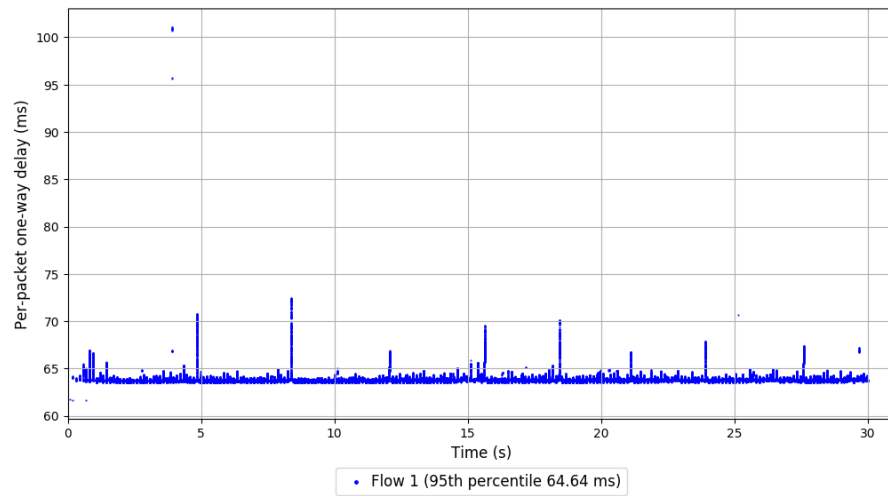
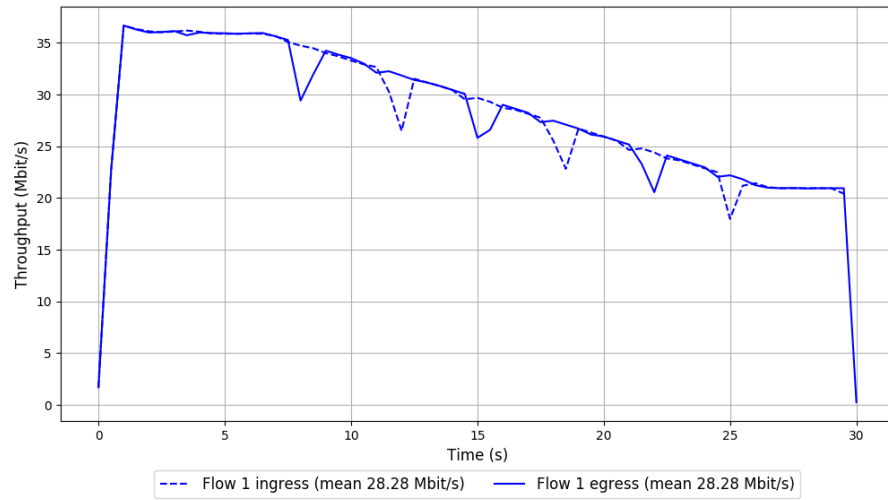
-- Flow 1:

Average throughput: 28.28 Mbit/s

95th percentile per-packet one-way delay: 64.640 ms

Loss rate: 0.00%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-02-16 18:56:26

End at: 2018-02-16 18:56:57

Below is generated by plot.py at 2018-02-16 21:47:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 158.13 Mbit/s

95th percentile per-packet one-way delay: 72.307 ms

Loss rate: 0.00%

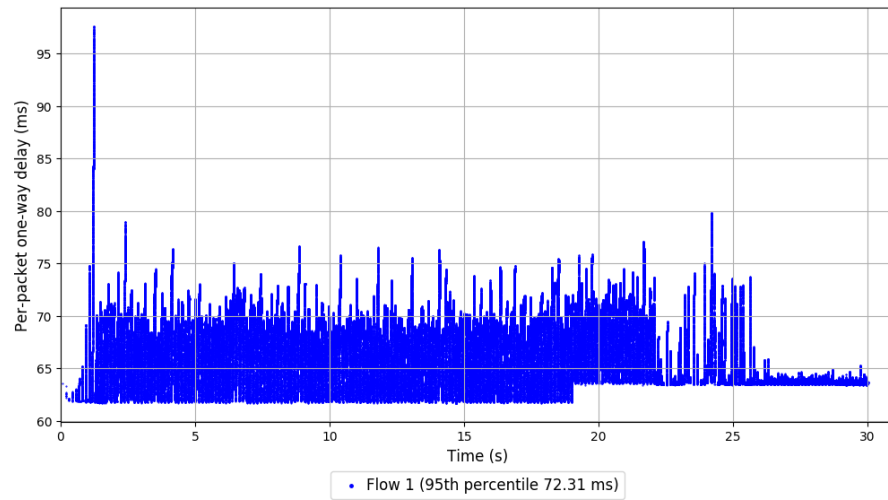
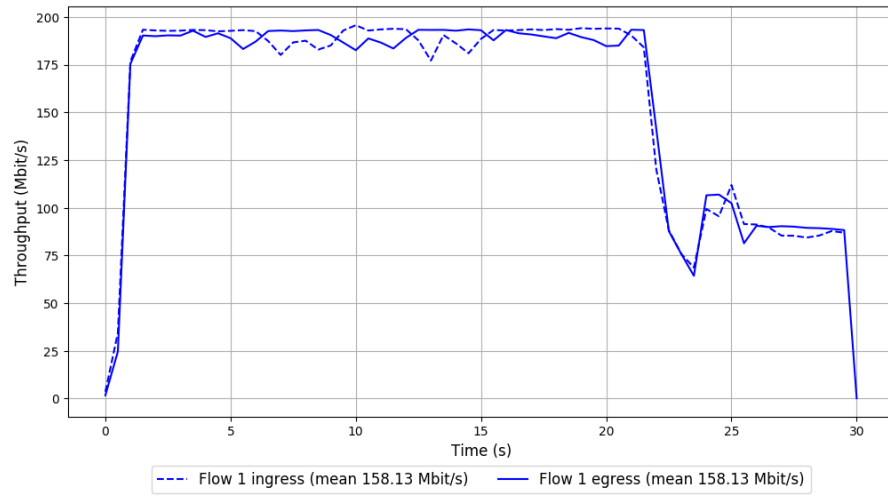
-- Flow 1:

Average throughput: 158.13 Mbit/s

95th percentile per-packet one-way delay: 72.307 ms

Loss rate: 0.00%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-02-16 19:11:03

End at: 2018-02-16 19:11:33

Below is generated by plot.py at 2018-02-16 21:47:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 103.09 Mbit/s

95th percentile per-packet one-way delay: 64.650 ms

Loss rate: 0.00%

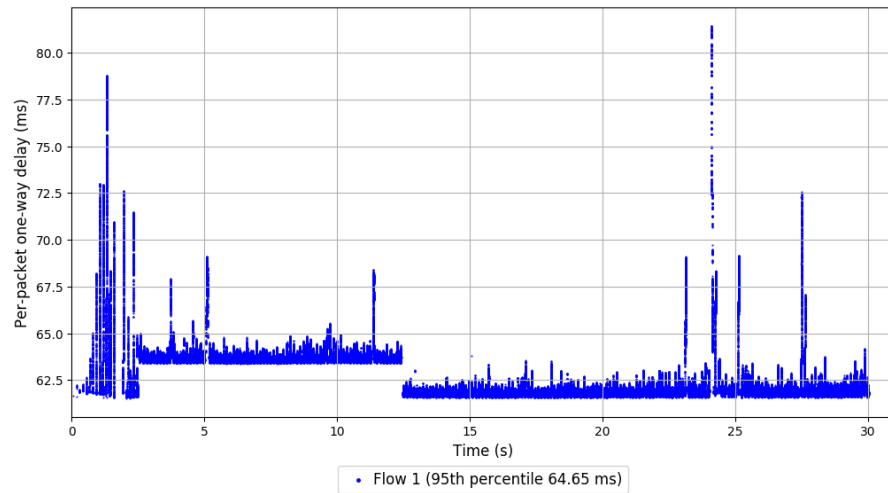
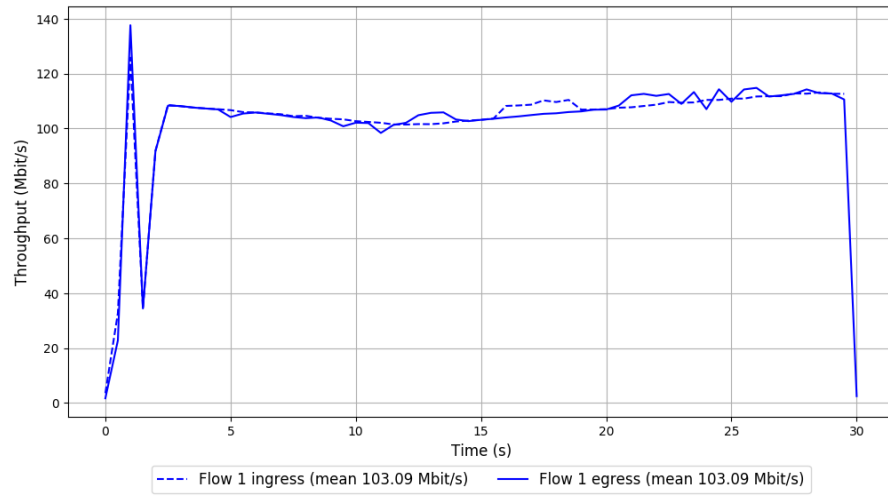
-- Flow 1:

Average throughput: 103.09 Mbit/s

95th percentile per-packet one-way delay: 64.650 ms

Loss rate: 0.00%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-02-16 19:26:03

End at: 2018-02-16 19:26:33

Below is generated by plot.py at 2018-02-16 21:47:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 55.13 Mbit/s

95th percentile per-packet one-way delay: 63.754 ms

Loss rate: 0.00%

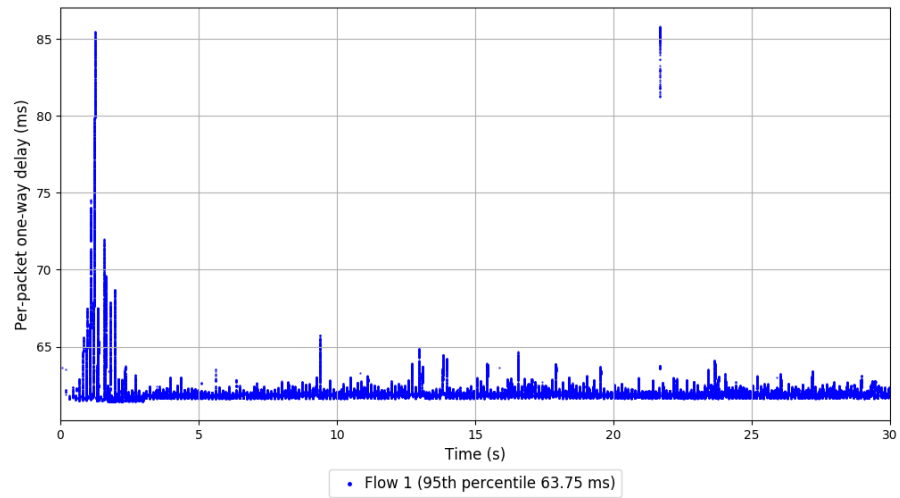
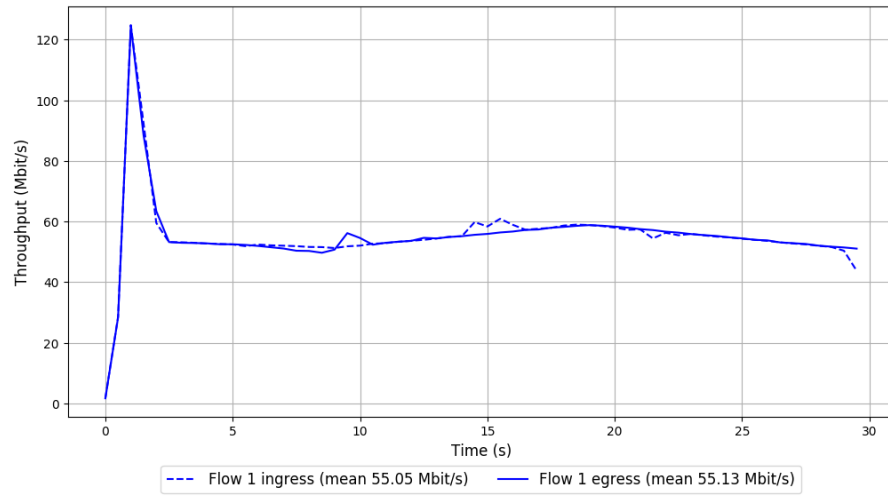
-- Flow 1:

Average throughput: 55.13 Mbit/s

95th percentile per-packet one-way delay: 63.754 ms

Loss rate: 0.00%

Run 10: Report of TCP Vegas — Data Link

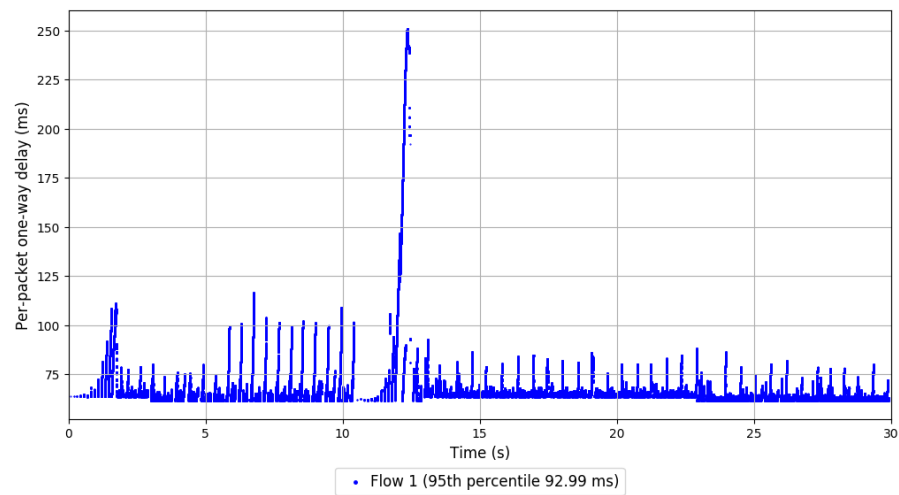
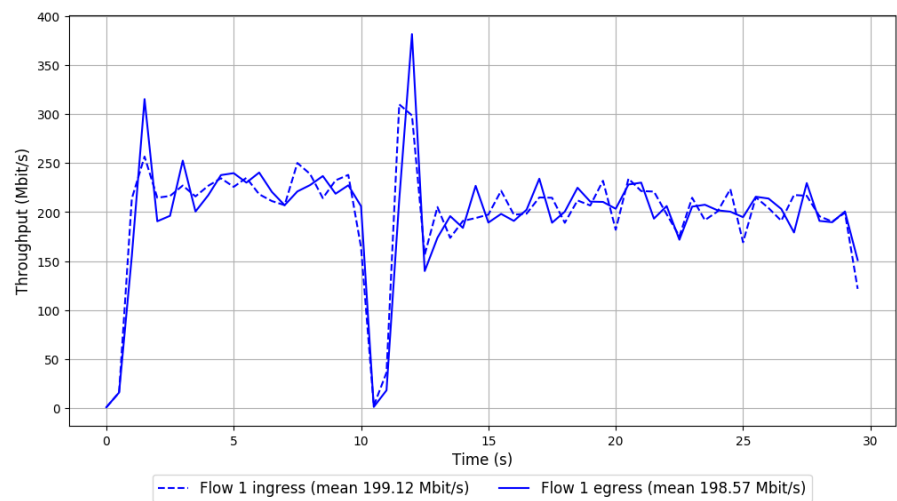


```
Run 1: Statistics of Verus

Start at: 2018-02-16 17:19:12
End at: 2018-02-16 17:19:43

# Below is generated by plot.py at 2018-02-16 21:48:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 198.57 Mbit/s
95th percentile per-packet one-way delay: 92.994 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 198.57 Mbit/s
95th percentile per-packet one-way delay: 92.994 ms
Loss rate: 0.28%
```

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-02-16 17:34:05

End at: 2018-02-16 17:34:35

Below is generated by plot.py at 2018-02-16 21:50:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 290.41 Mbit/s

95th percentile per-packet one-way delay: 270.618 ms

Loss rate: 3.95%

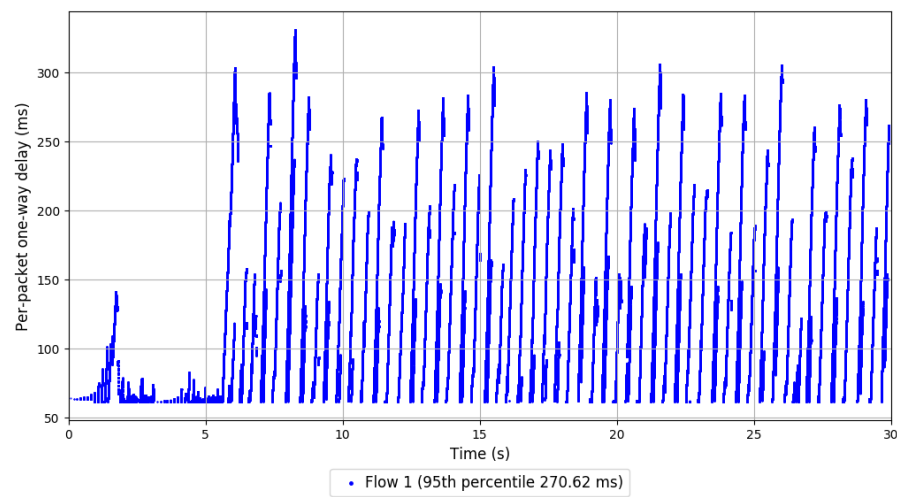
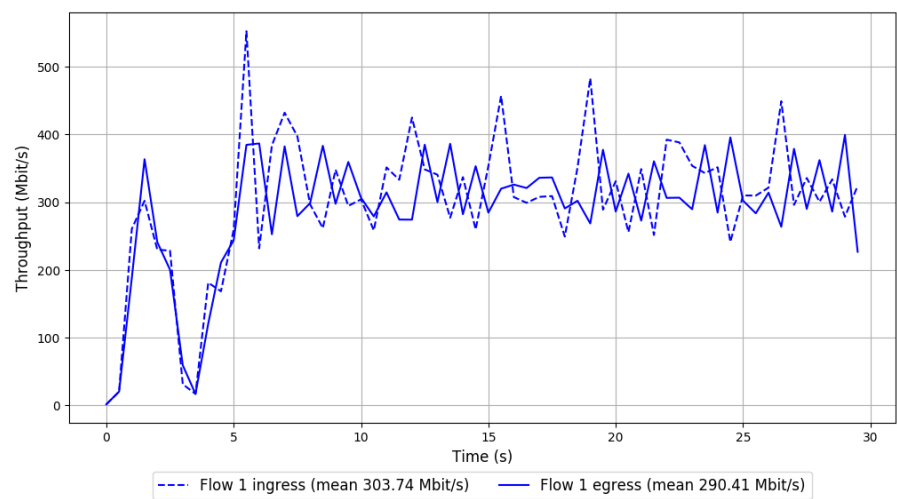
-- Flow 1:

Average throughput: 290.41 Mbit/s

95th percentile per-packet one-way delay: 270.618 ms

Loss rate: 3.95%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-02-16 17:49:13

End at: 2018-02-16 17:49:43

Below is generated by plot.py at 2018-02-16 21:50:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 193.70 Mbit/s

95th percentile per-packet one-way delay: 99.298 ms

Loss rate: 0.02%

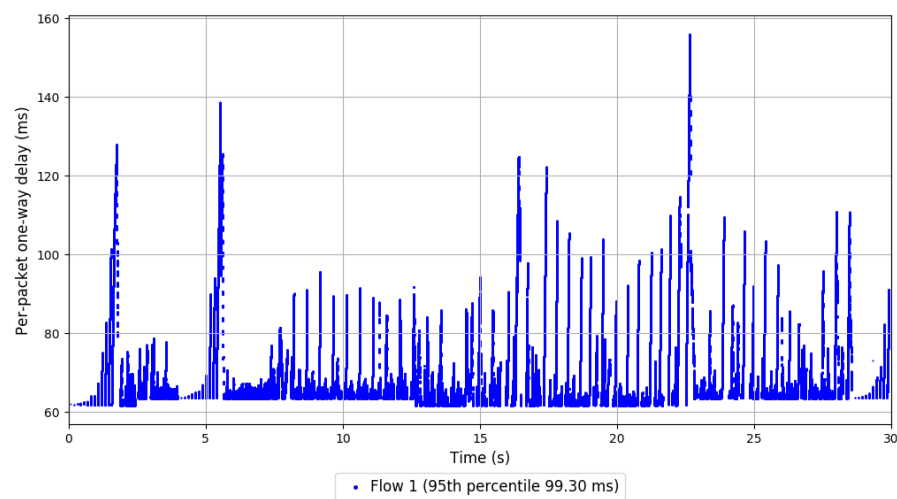
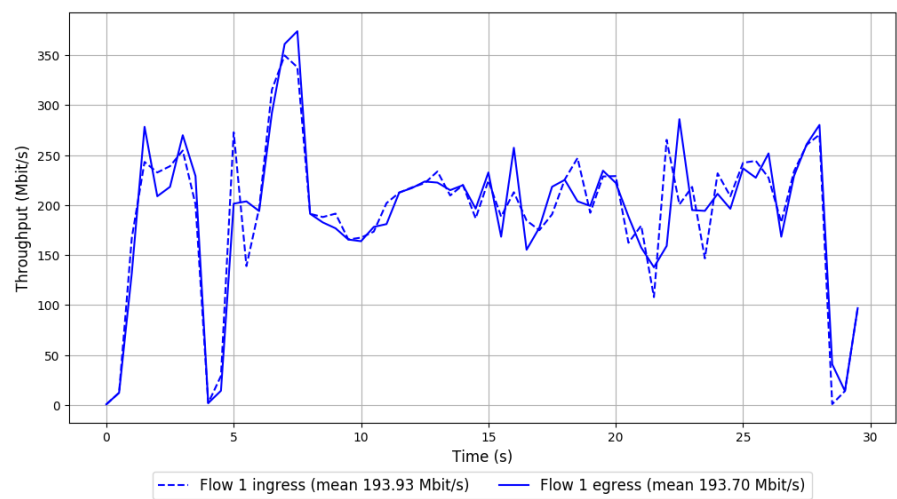
-- Flow 1:

Average throughput: 193.70 Mbit/s

95th percentile per-packet one-way delay: 99.298 ms

Loss rate: 0.02%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-02-16 18:04:05

End at: 2018-02-16 18:04:35

Below is generated by plot.py at 2018-02-16 21:50:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 215.48 Mbit/s

95th percentile per-packet one-way delay: 177.727 ms

Loss rate: 0.35%

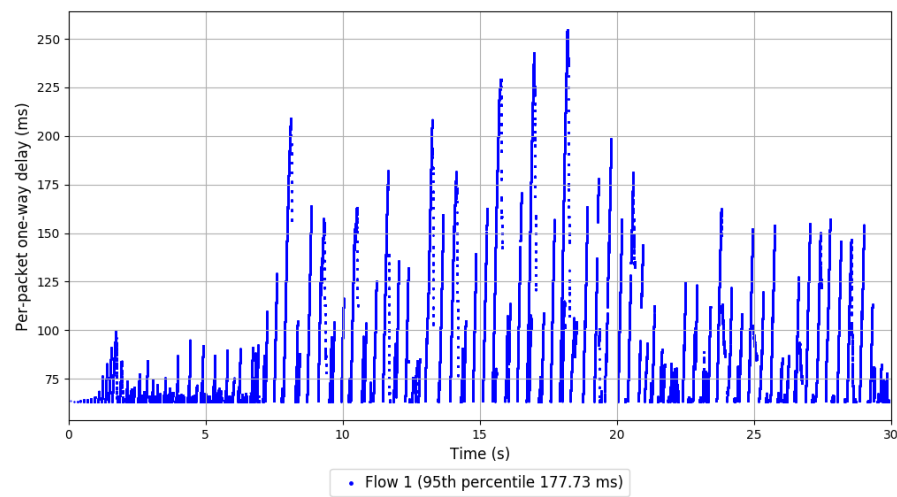
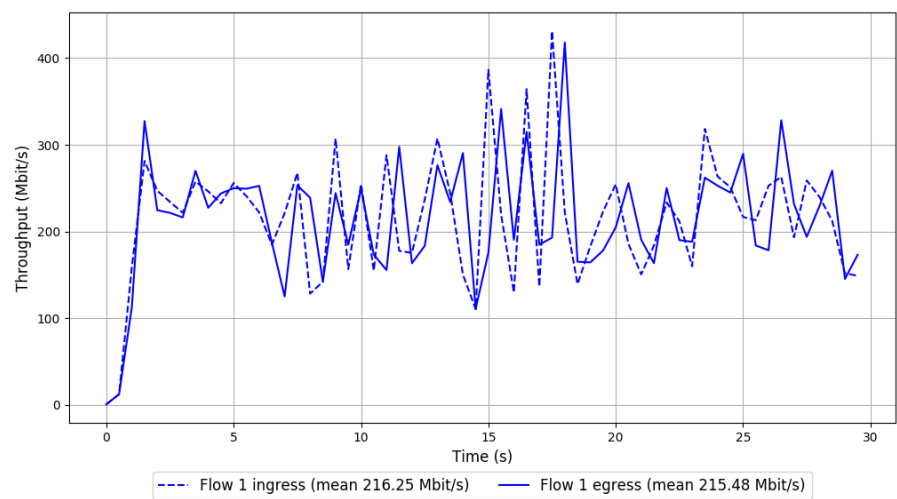
-- Flow 1:

Average throughput: 215.48 Mbit/s

95th percentile per-packet one-way delay: 177.727 ms

Loss rate: 0.35%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-02-16 18:18:51

End at: 2018-02-16 18:19:21

Below is generated by plot.py at 2018-02-16 21:50:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 209.19 Mbit/s

95th percentile per-packet one-way delay: 158.479 ms

Loss rate: 1.29%

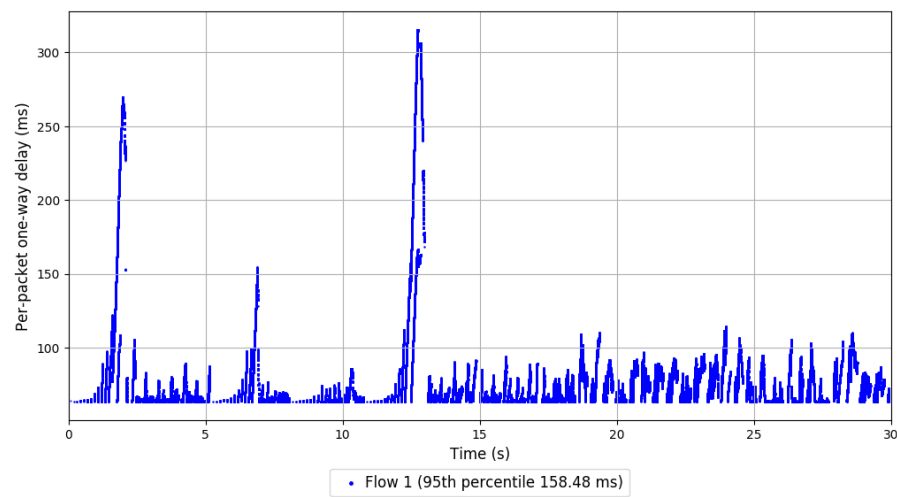
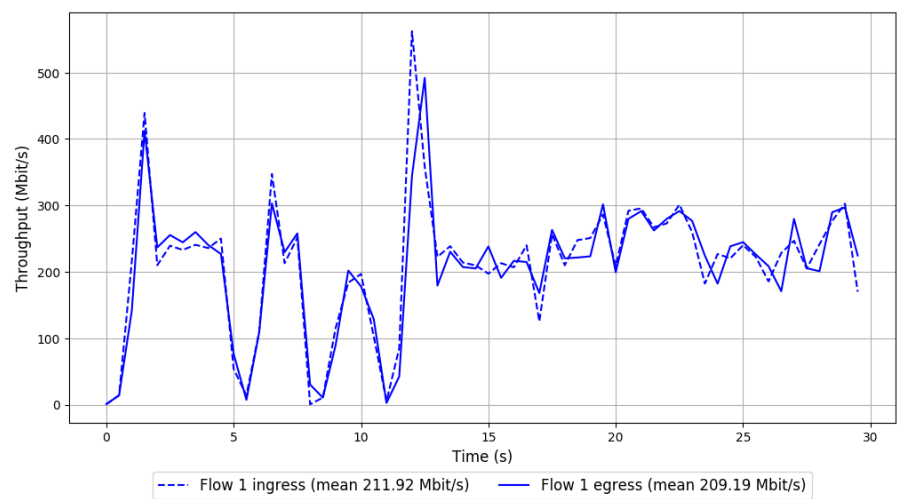
-- Flow 1:

Average throughput: 209.19 Mbit/s

95th percentile per-packet one-way delay: 158.479 ms

Loss rate: 1.29%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-02-16 18:33:49

End at: 2018-02-16 18:34:19

Below is generated by plot.py at 2018-02-16 21:50:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 250.12 Mbit/s

95th percentile per-packet one-way delay: 246.575 ms

Loss rate: 2.33%

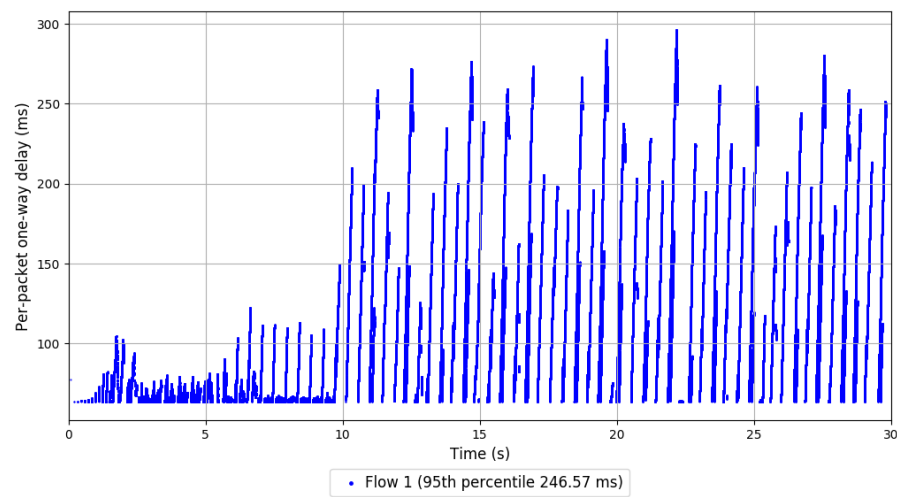
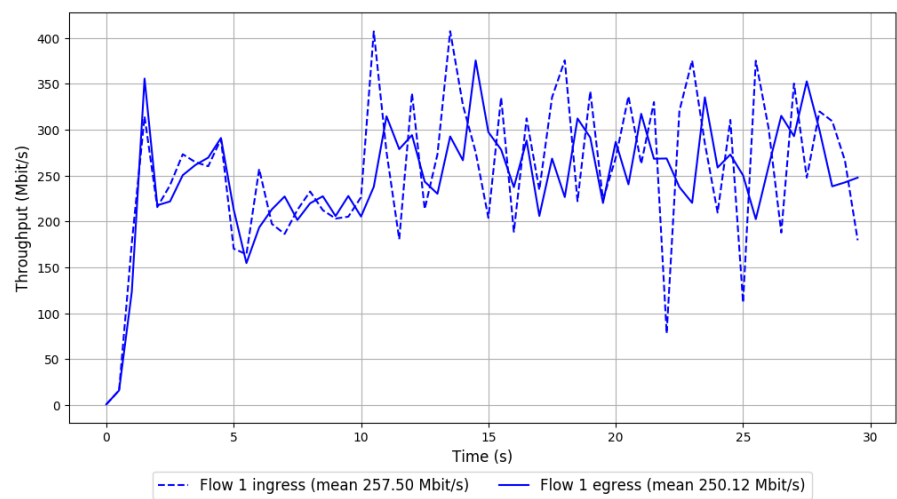
-- Flow 1:

Average throughput: 250.12 Mbit/s

95th percentile per-packet one-way delay: 246.575 ms

Loss rate: 2.33%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-02-16 18:48:33

End at: 2018-02-16 18:49:03

Below is generated by plot.py at 2018-02-16 21:50:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 191.05 Mbit/s

95th percentile per-packet one-way delay: 91.454 ms

Loss rate: 0.00%

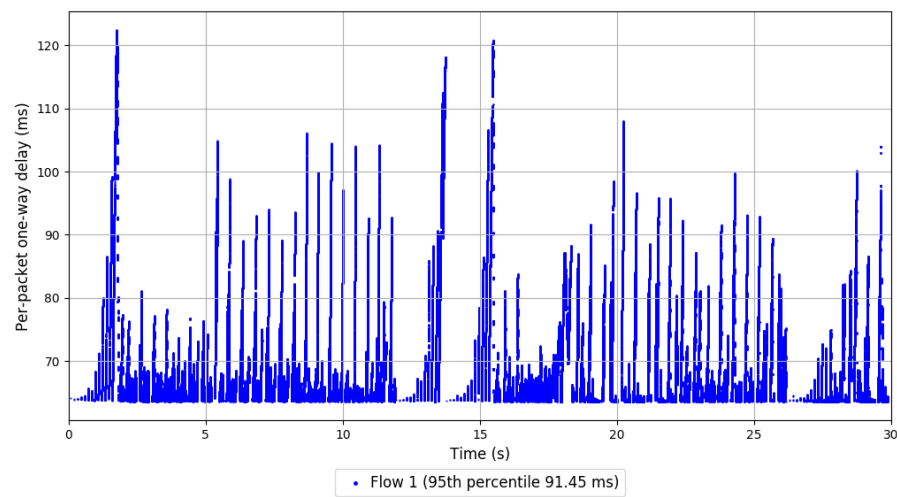
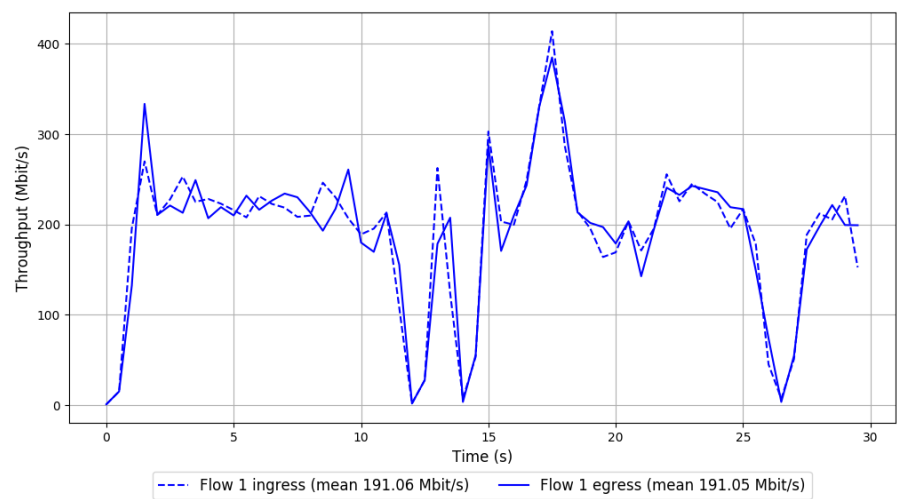
-- Flow 1:

Average throughput: 191.05 Mbit/s

95th percentile per-packet one-way delay: 91.454 ms

Loss rate: 0.00%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-02-16 19:03:27

End at: 2018-02-16 19:03:57

Below is generated by plot.py at 2018-02-16 21:51:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 201.54 Mbit/s

95th percentile per-packet one-way delay: 86.886 ms

Loss rate: 0.00%

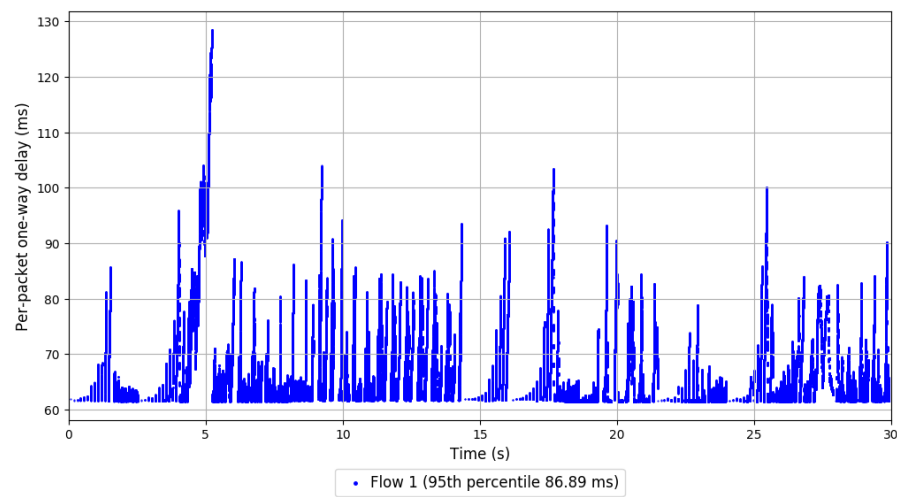
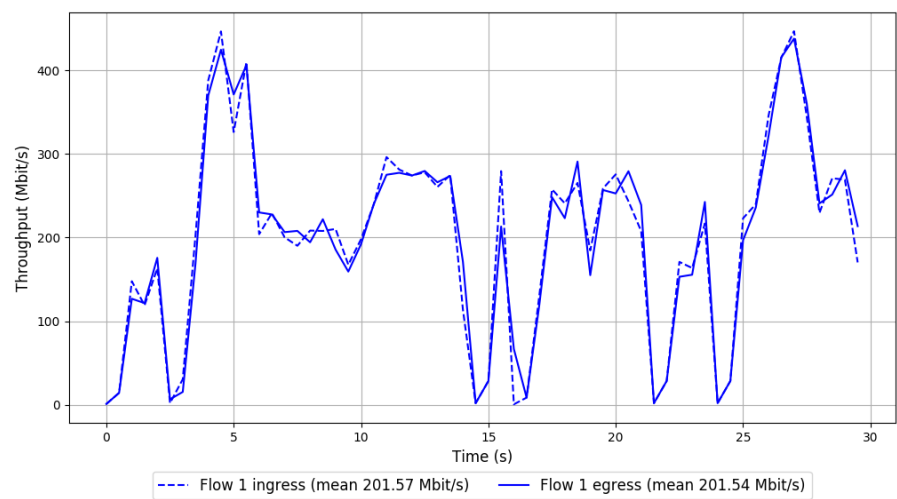
-- Flow 1:

Average throughput: 201.54 Mbit/s

95th percentile per-packet one-way delay: 86.886 ms

Loss rate: 0.00%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-02-16 19:18:09

End at: 2018-02-16 19:18:39

Below is generated by plot.py at 2018-02-16 21:53:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 232.35 Mbit/s

95th percentile per-packet one-way delay: 164.658 ms

Loss rate: 0.10%

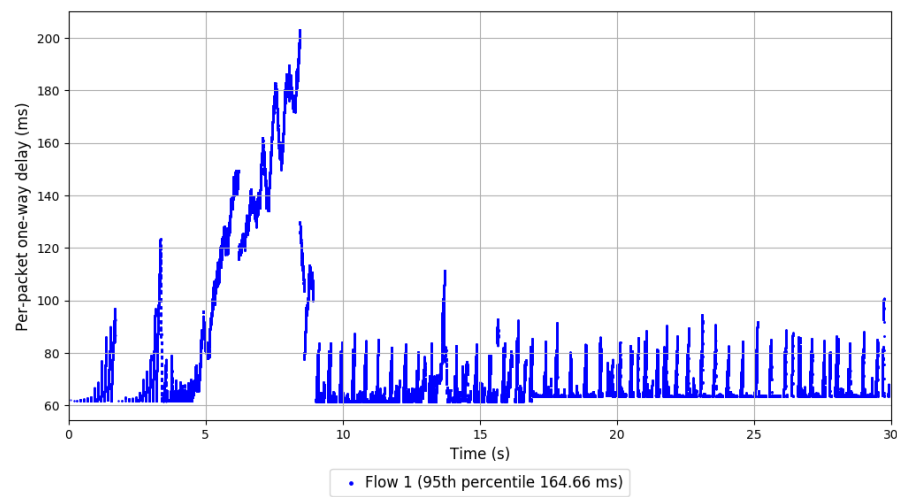
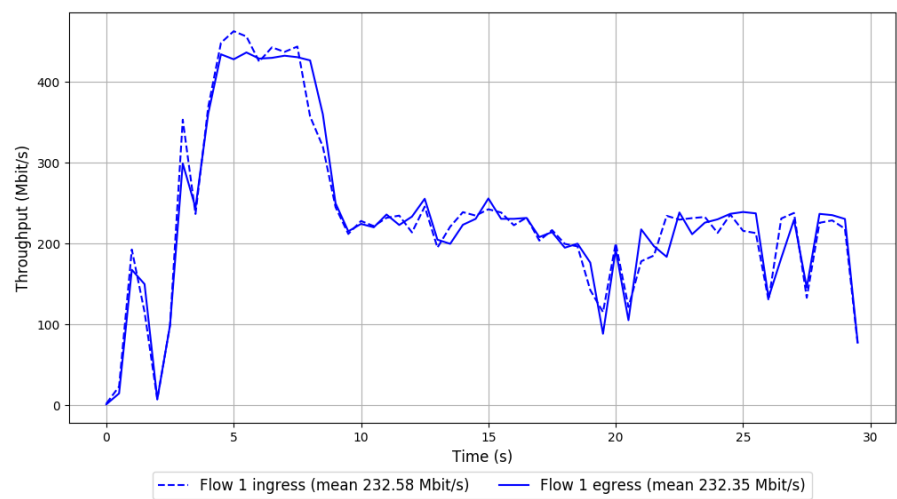
-- Flow 1:

Average throughput: 232.35 Mbit/s

95th percentile per-packet one-way delay: 164.658 ms

Loss rate: 0.10%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-02-16 19:32:56

End at: 2018-02-16 19:33:26

Below is generated by plot.py at 2018-02-16 21:53:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 201.93 Mbit/s

95th percentile per-packet one-way delay: 105.812 ms

Loss rate: 0.00%

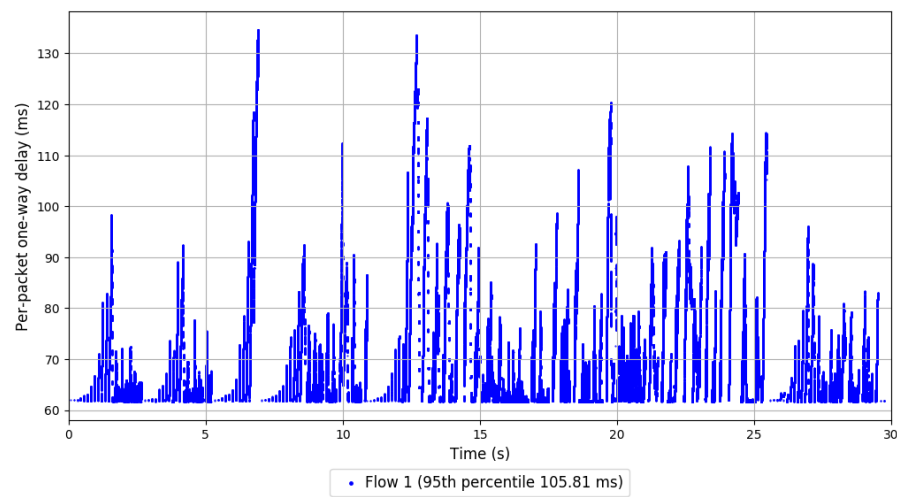
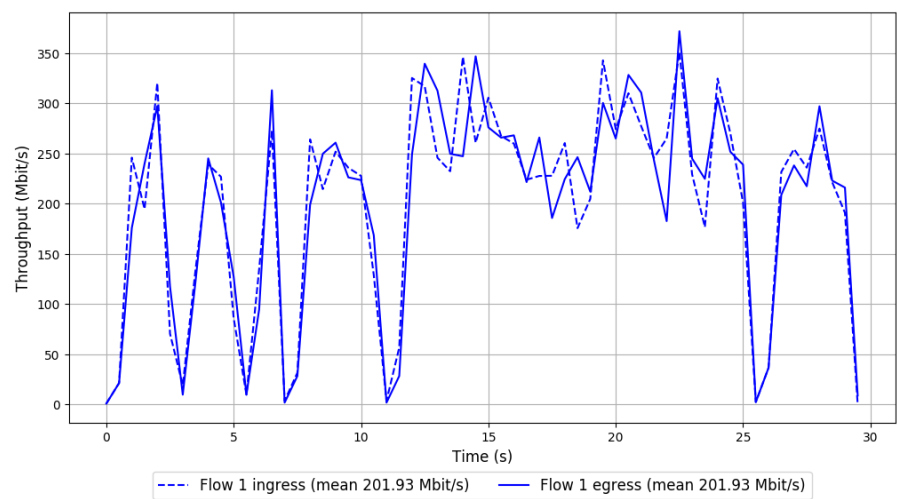
-- Flow 1:

Average throughput: 201.93 Mbit/s

95th percentile per-packet one-way delay: 105.812 ms

Loss rate: 0.00%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2018-02-16 17:10:46

End at: 2018-02-16 17:11:16

Below is generated by plot.py at 2018-02-16 21:53:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.61 Mbit/s

95th percentile per-packet one-way delay: 63.561 ms

Loss rate: 0.00%

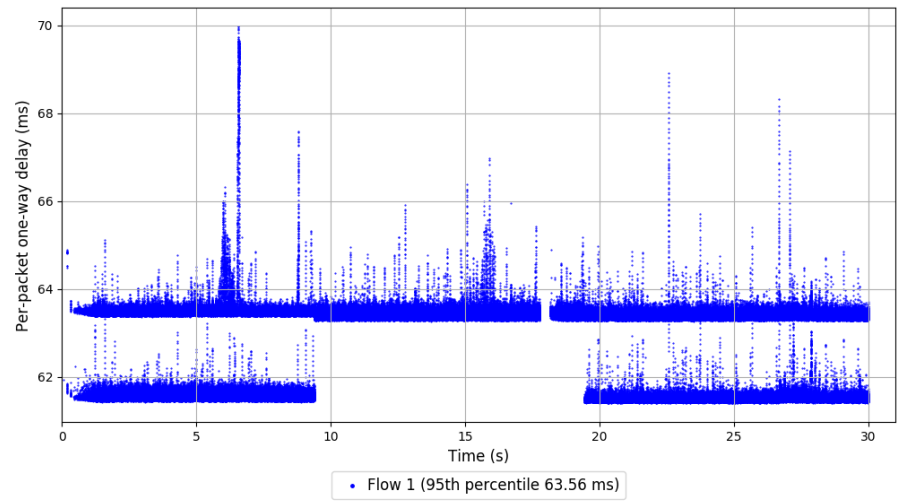
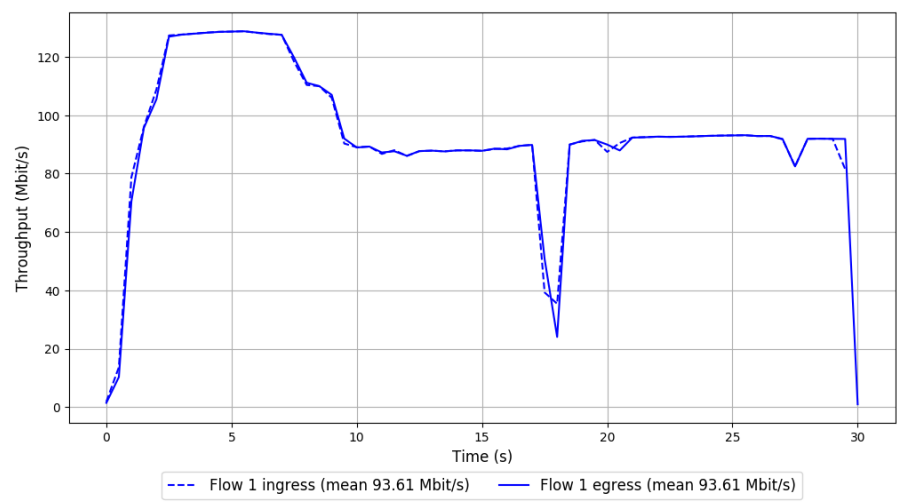
-- Flow 1:

Average throughput: 93.61 Mbit/s

95th percentile per-packet one-way delay: 63.561 ms

Loss rate: 0.00%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-02-16 17:25:32

End at: 2018-02-16 17:26:02

Below is generated by plot.py at 2018-02-16 21:53:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.73 Mbit/s

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

Loss rate: 0.00%

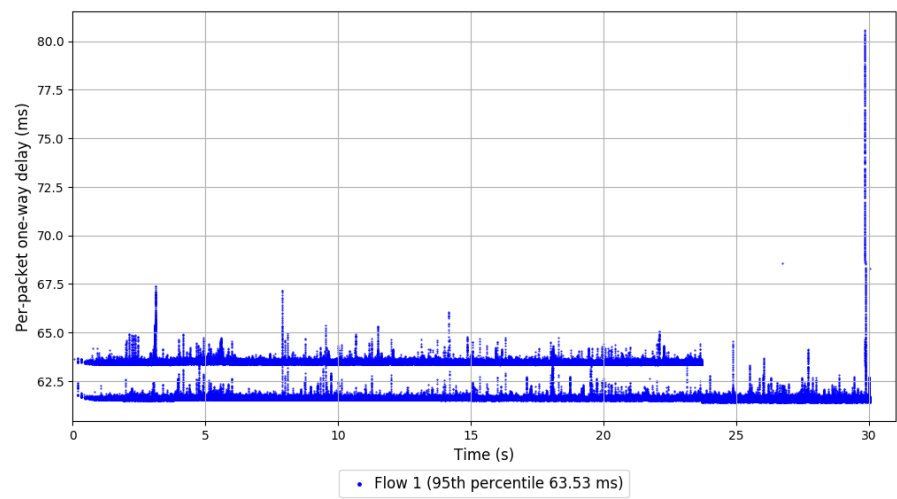
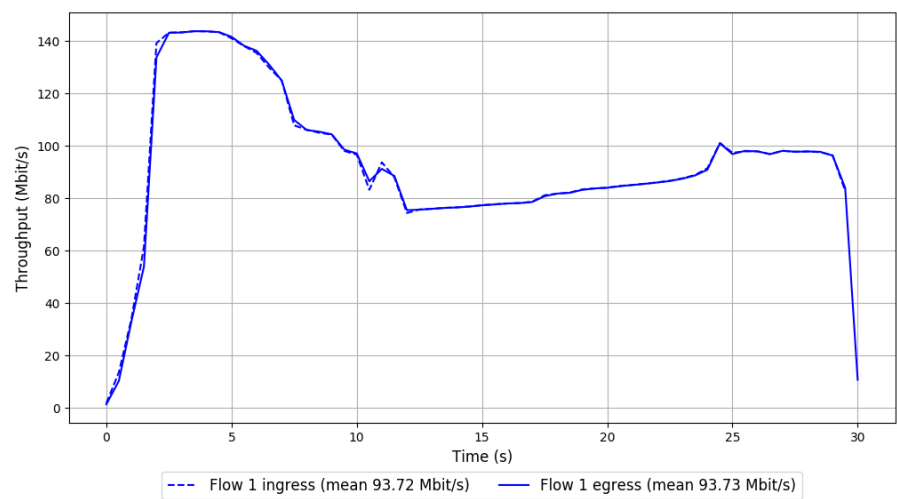
-- Flow 1:

Average throughput: 93.73 Mbit/s

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

Loss rate: 0.00%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-02-16 17:40:32

End at: 2018-02-16 17:41:02

Below is generated by plot.py at 2018-02-16 21:53:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.88 Mbit/s

95th percentile per-packet one-way delay: 63.558 ms

Loss rate: 0.00%

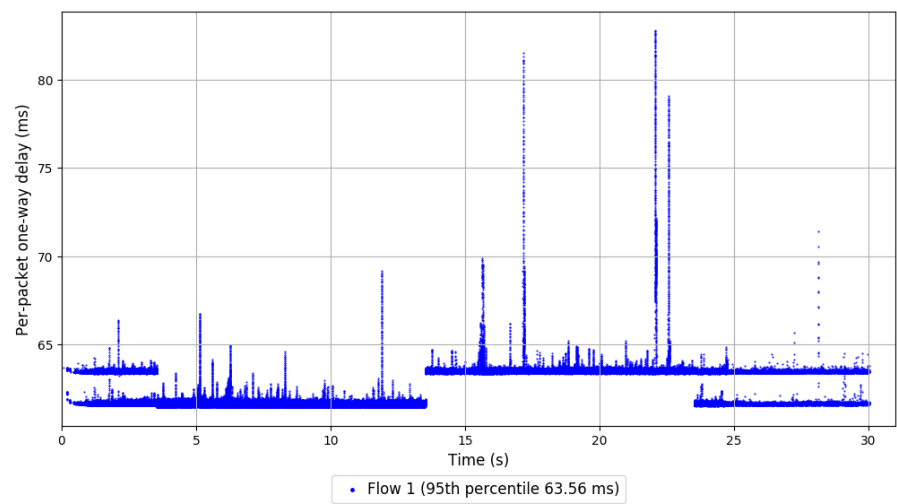
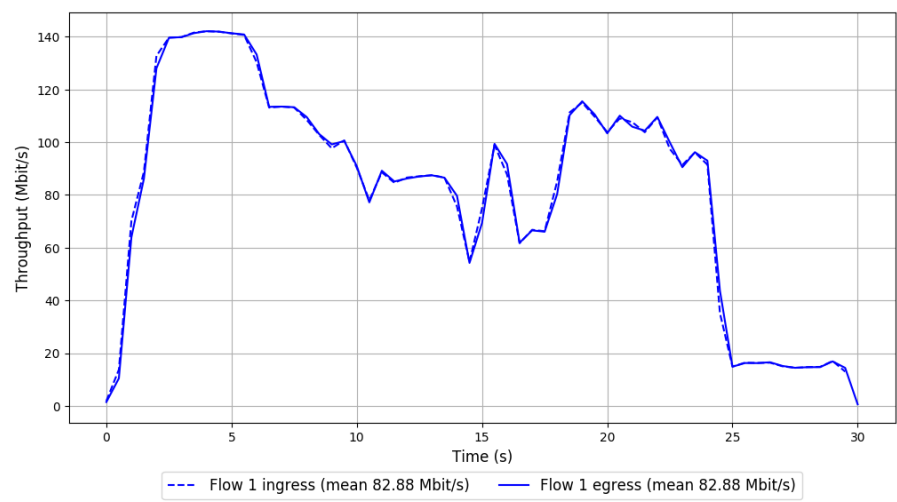
-- Flow 1:

Average throughput: 82.88 Mbit/s

95th percentile per-packet one-way delay: 63.558 ms

Loss rate: 0.00%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-02-16 17:55:32

End at: 2018-02-16 17:56:02

Below is generated by plot.py at 2018-02-16 21:53:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.85 Mbit/s

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

Loss rate: 0.00%

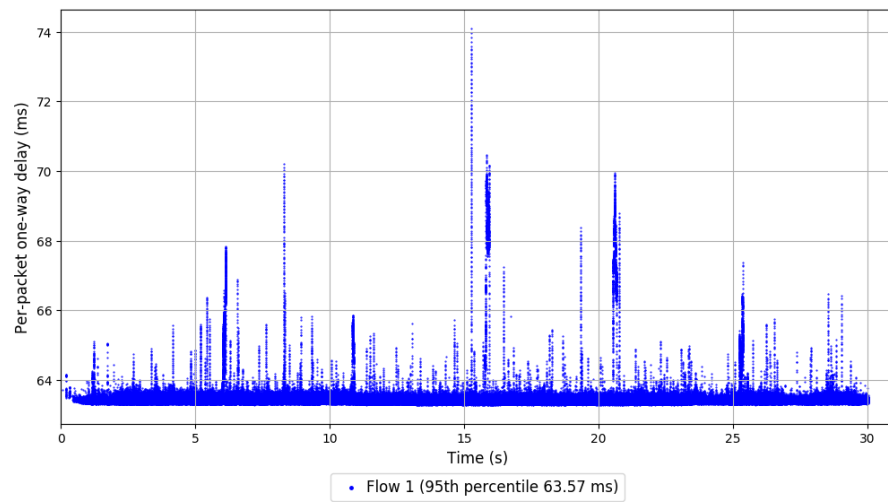
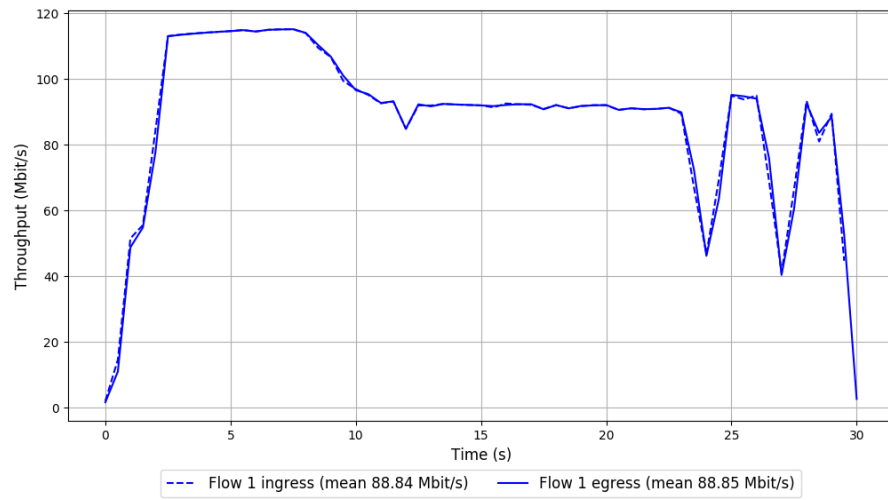
-- Flow 1:

Average throughput: 88.85 Mbit/s

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

Loss rate: 0.00%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-02-16 18:10:22

End at: 2018-02-16 18:10:52

Below is generated by plot.py at 2018-02-16 21:53:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.04 Mbit/s

95th percentile per-packet one-way delay: 63.557 ms

Loss rate: 0.00%

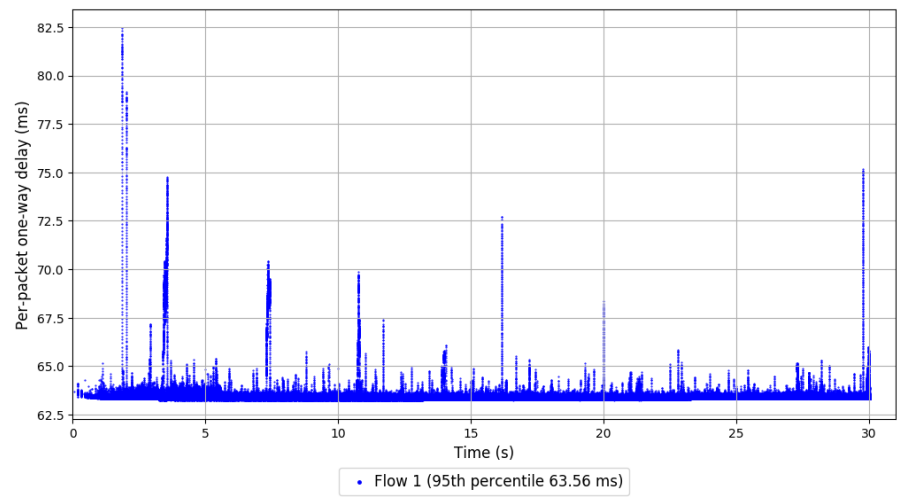
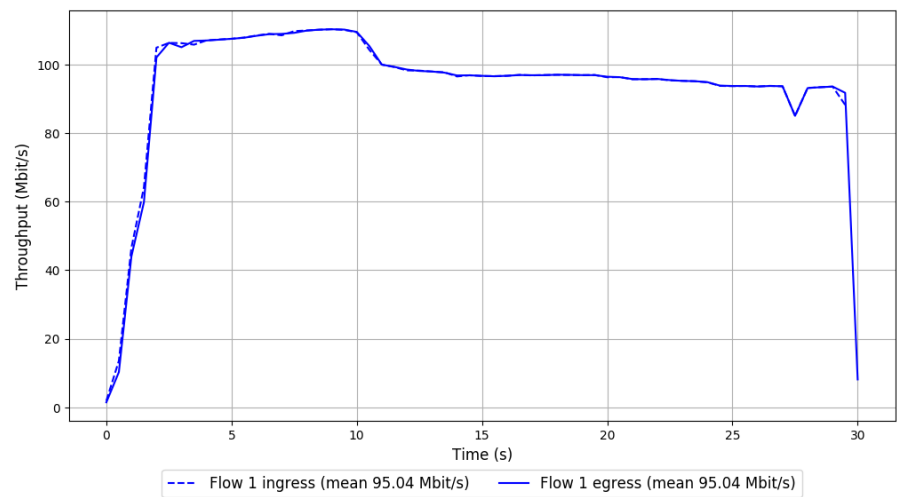
-- Flow 1:

Average throughput: 95.04 Mbit/s

95th percentile per-packet one-way delay: 63.557 ms

Loss rate: 0.00%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-02-16 18:25:13

End at: 2018-02-16 18:25:43

Below is generated by plot.py at 2018-02-16 21:54:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.53 Mbit/s

95th percentile per-packet one-way delay: 63.651 ms

Loss rate: 0.00%

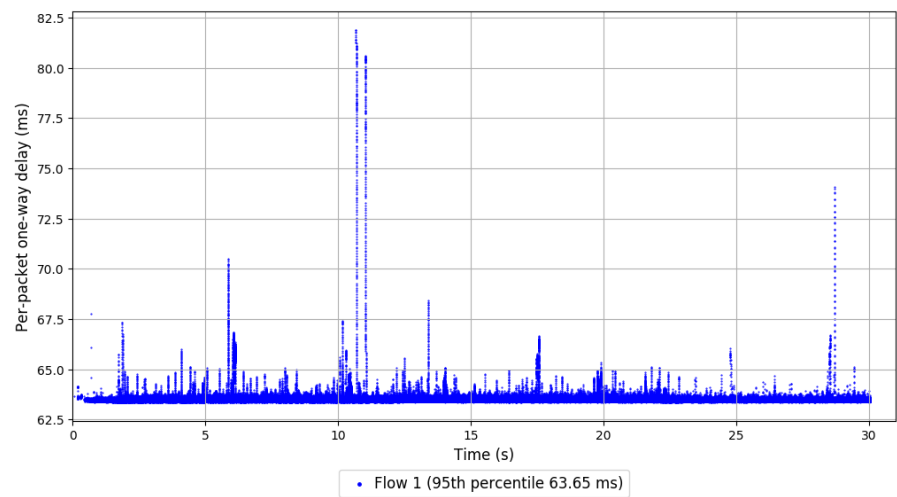
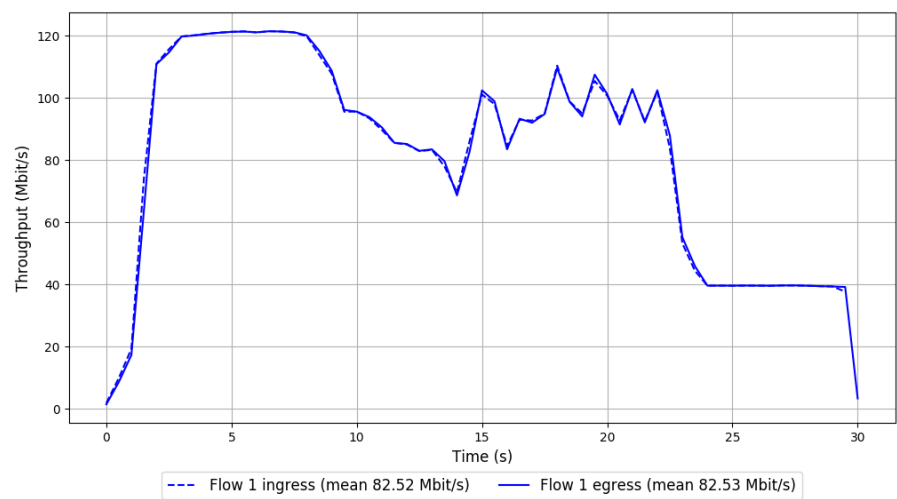
-- Flow 1:

Average throughput: 82.53 Mbit/s

95th percentile per-packet one-way delay: 63.651 ms

Loss rate: 0.00%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-02-16 18:40:13

End at: 2018-02-16 18:40:43

Below is generated by plot.py at 2018-02-16 21:55:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 99.01 Mbit/s

95th percentile per-packet one-way delay: 63.695 ms

Loss rate: 0.00%

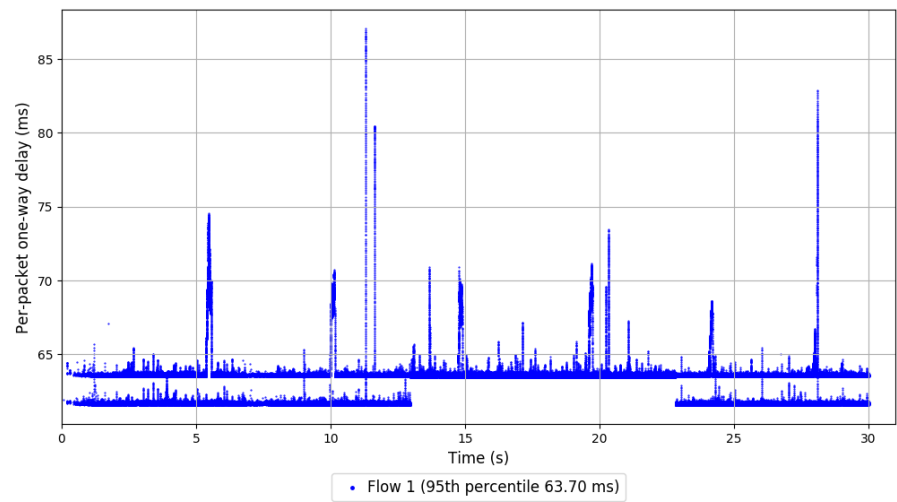
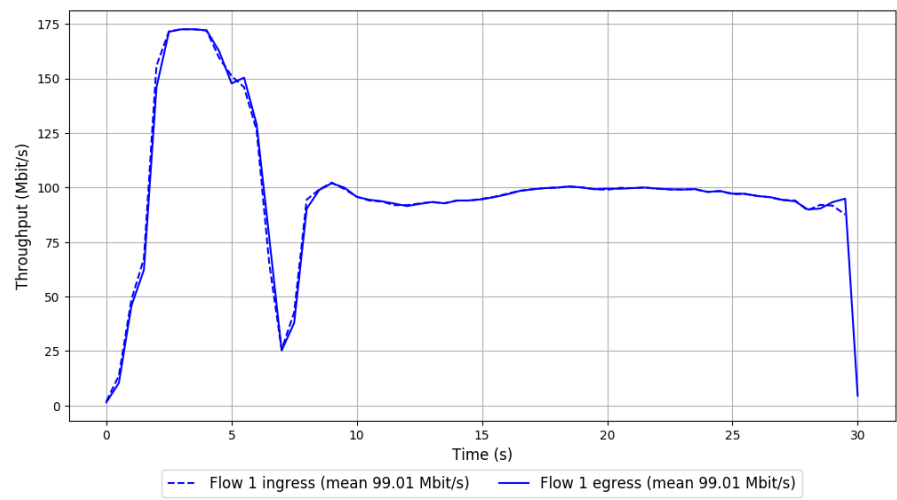
-- Flow 1:

Average throughput: 99.01 Mbit/s

95th percentile per-packet one-way delay: 63.695 ms

Loss rate: 0.00%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-02-16 18:54:54

End at: 2018-02-16 18:55:24

Below is generated by plot.py at 2018-02-16 21:55:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.25 Mbit/s

95th percentile per-packet one-way delay: 63.677 ms

Loss rate: 0.00%

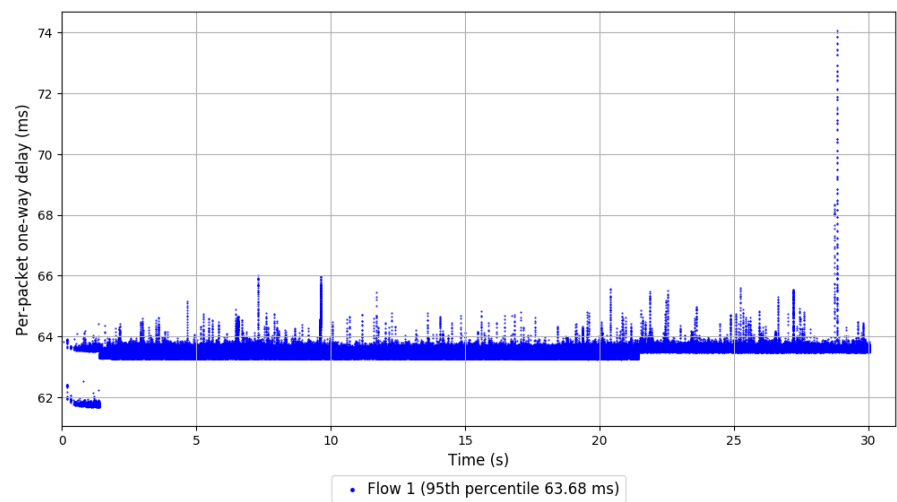
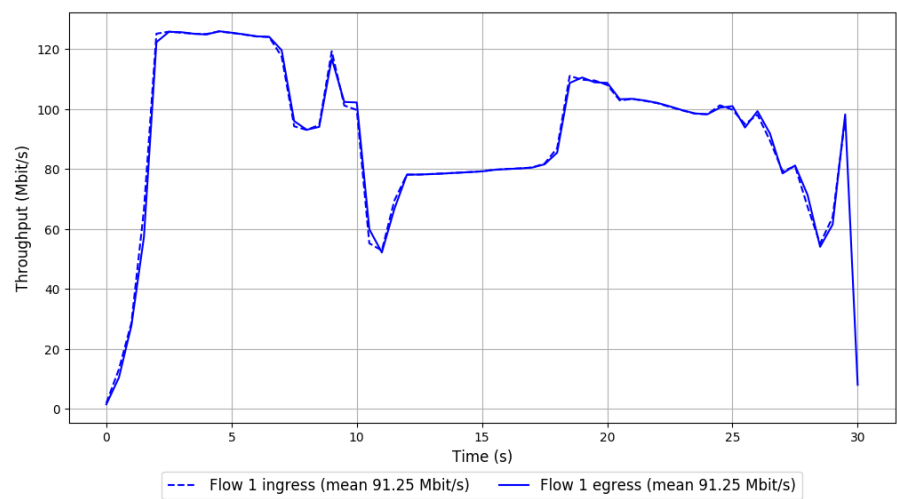
-- Flow 1:

Average throughput: 91.25 Mbit/s

95th percentile per-packet one-way delay: 63.677 ms

Loss rate: 0.00%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-02-16 19:09:31

End at: 2018-02-16 19:10:01

Below is generated by plot.py at 2018-02-16 21:56:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.67 Mbit/s

95th percentile per-packet one-way delay: 63.503 ms

Loss rate: 0.00%

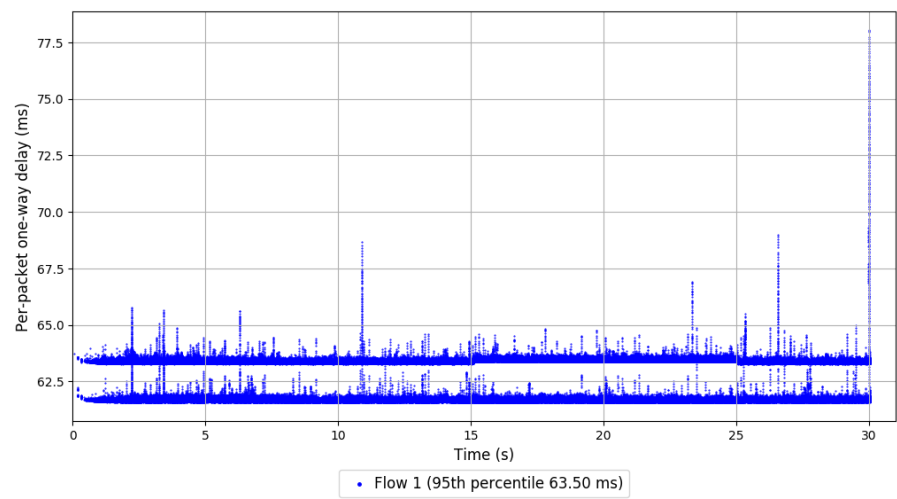
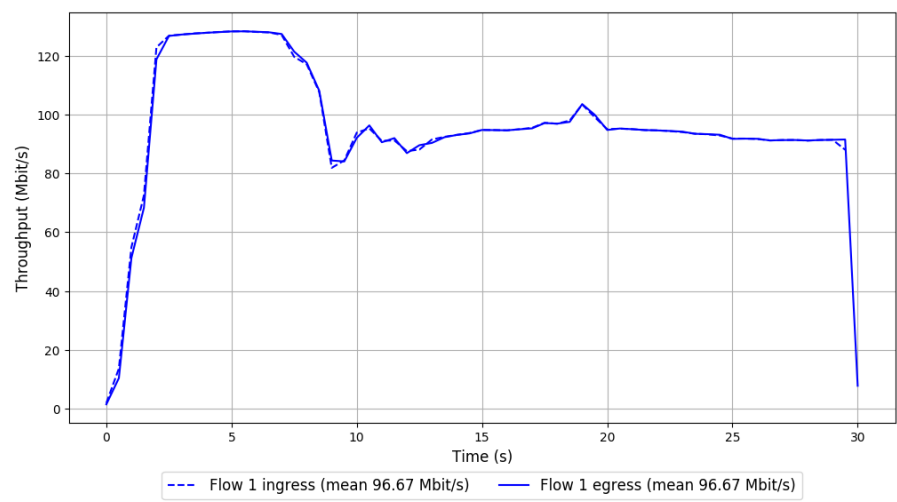
-- Flow 1:

Average throughput: 96.67 Mbit/s

95th percentile per-packet one-way delay: 63.503 ms

Loss rate: 0.00%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-02-16 19:24:31

End at: 2018-02-16 19:25:01

Below is generated by plot.py at 2018-02-16 21:56:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.69 Mbit/s

95th percentile per-packet one-way delay: 63.560 ms

Loss rate: 0.00%

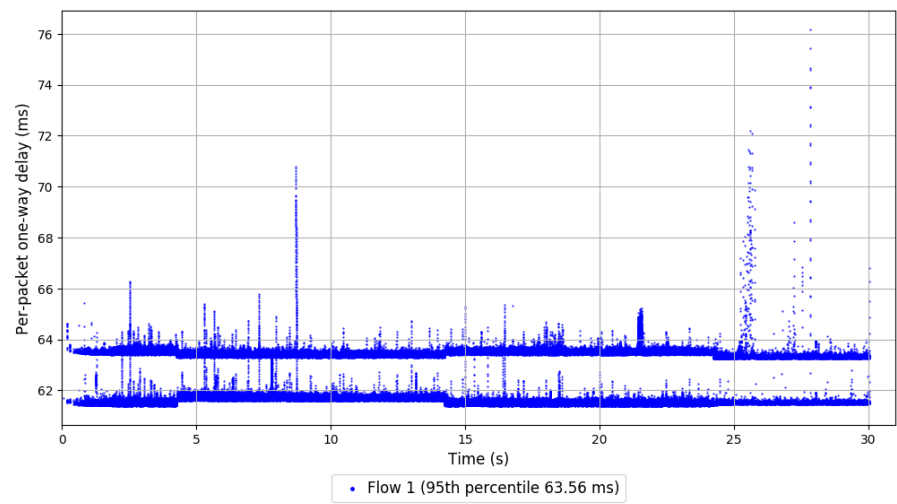
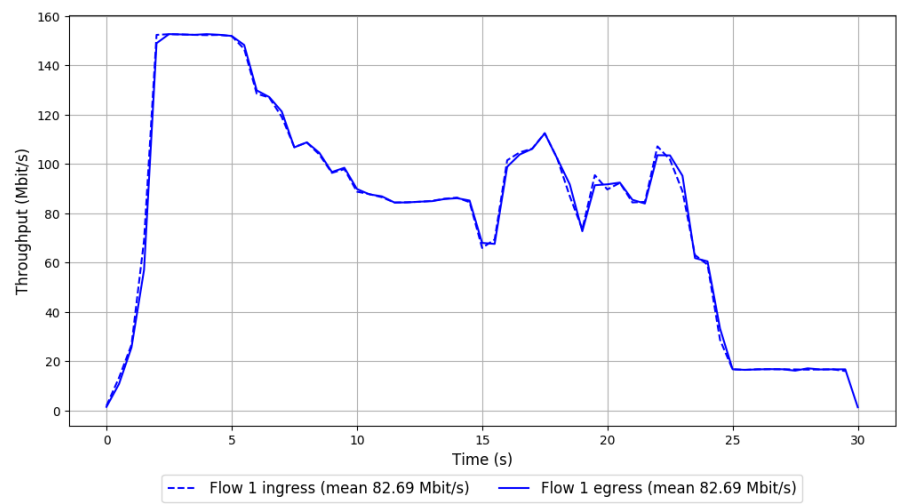
-- Flow 1:

Average throughput: 82.69 Mbit/s

95th percentile per-packet one-way delay: 63.560 ms

Loss rate: 0.00%

Run 10: Report of Copa — Data Link



Run 1: Statistics of FillP

Start at: 2018-02-16 17:20:51

End at: 2018-02-16 17:21:21

Below is generated by plot.py at 2018-02-16 22:10:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 805.18 Mbit/s

95th percentile per-packet one-way delay: 313.056 ms

Loss rate: 9.49%

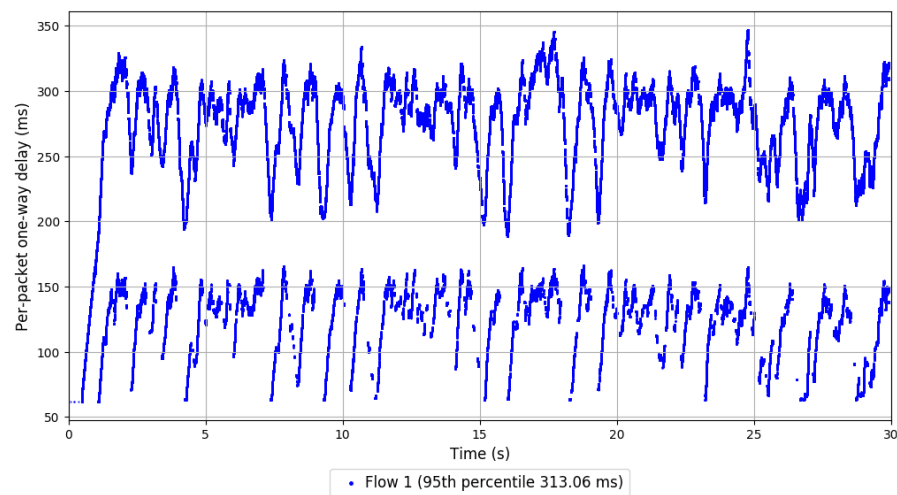
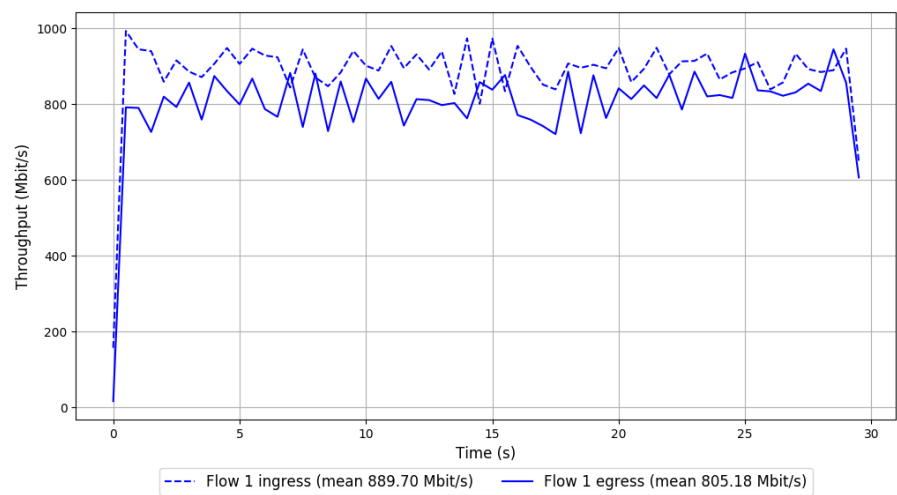
-- Flow 1:

Average throughput: 805.18 Mbit/s

95th percentile per-packet one-way delay: 313.056 ms

Loss rate: 9.49%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-02-16 17:35:50

End at: 2018-02-16 17:36:20

Below is generated by plot.py at 2018-02-16 22:10:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 816.17 Mbit/s

95th percentile per-packet one-way delay: 317.474 ms

Loss rate: 9.58%

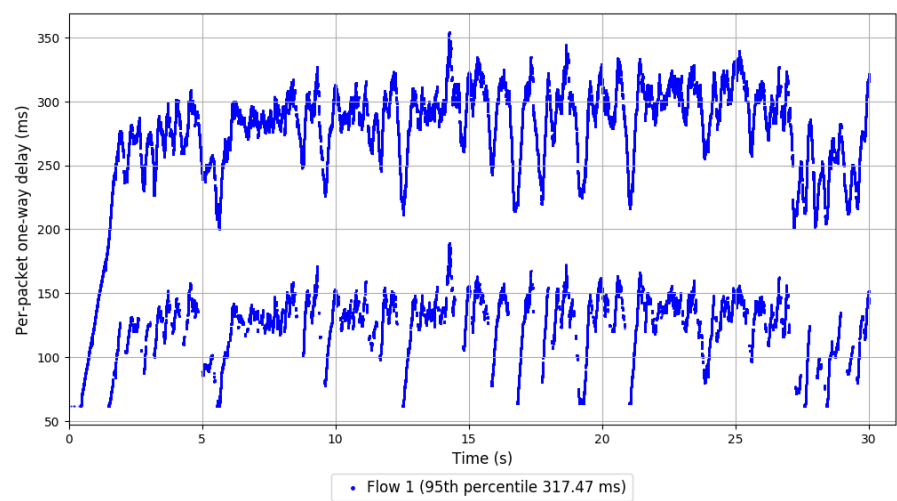
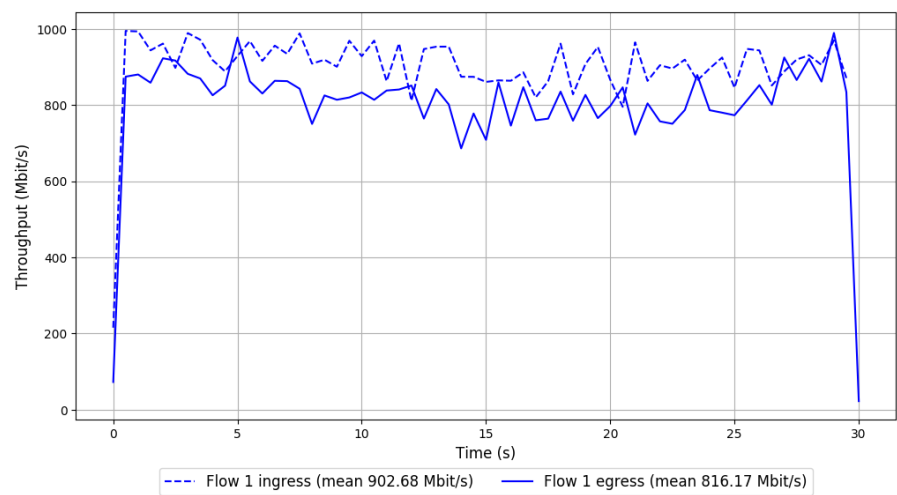
-- Flow 1:

Average throughput: 816.17 Mbit/s

95th percentile per-packet one-way delay: 317.474 ms

Loss rate: 9.58%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-02-16 17:50:52

End at: 2018-02-16 17:51:22

Below is generated by plot.py at 2018-02-16 22:10:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 812.81 Mbit/s

95th percentile per-packet one-way delay: 304.516 ms

Loss rate: 6.04%

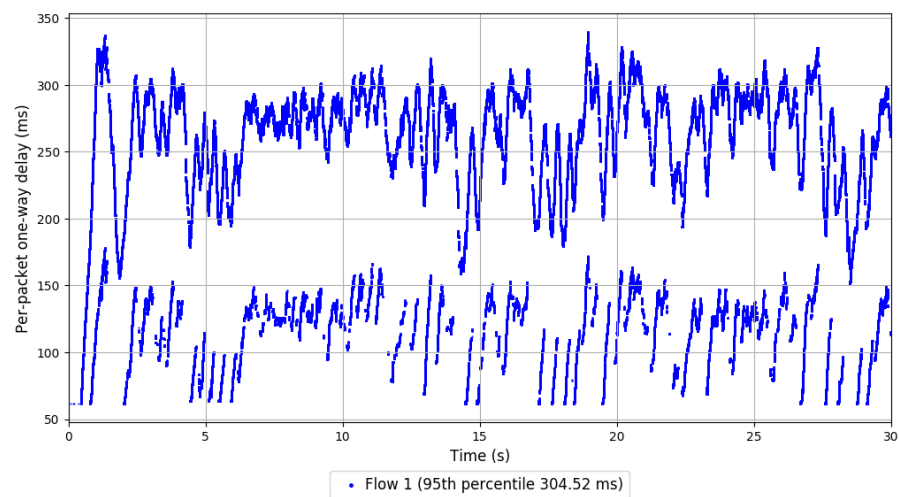
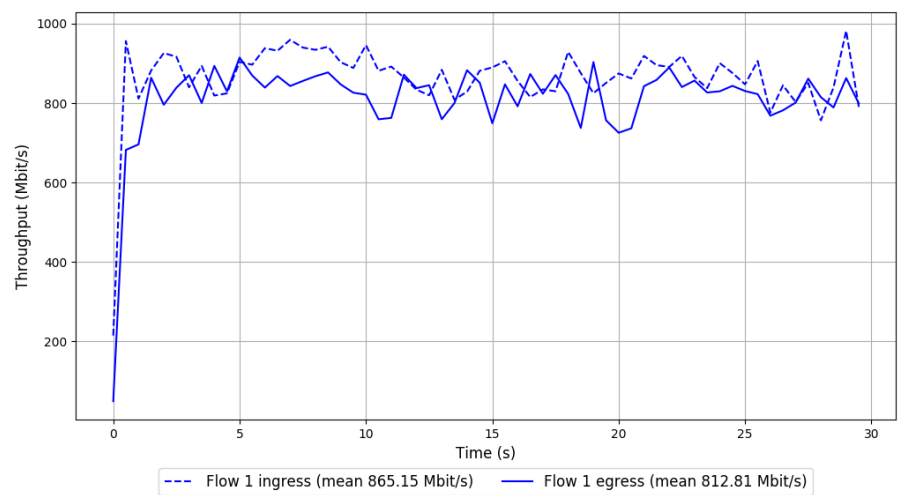
-- Flow 1:

Average throughput: 812.81 Mbit/s

95th percentile per-packet one-way delay: 304.516 ms

Loss rate: 6.04%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-02-16 18:05:46

End at: 2018-02-16 18:06:16

Below is generated by plot.py at 2018-02-16 22:11:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 848.47 Mbit/s

95th percentile per-packet one-way delay: 307.350 ms

Loss rate: 5.81%

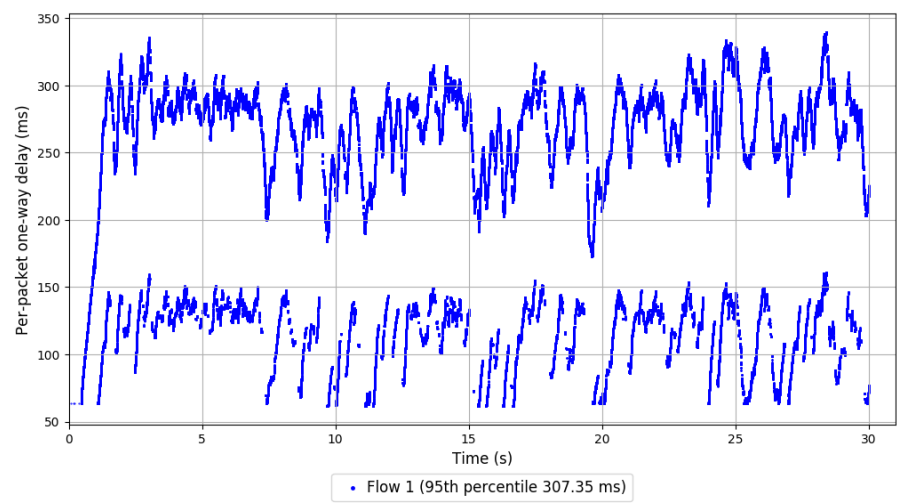
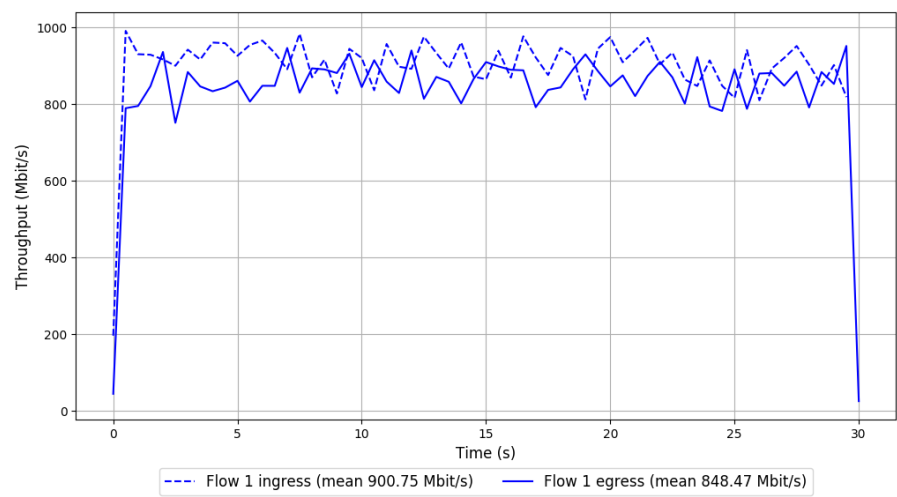
-- Flow 1:

Average throughput: 848.47 Mbit/s

95th percentile per-packet one-way delay: 307.350 ms

Loss rate: 5.81%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-02-16 18:20:30

End at: 2018-02-16 18:21:00

Below is generated by plot.py at 2018-02-16 22:13:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 864.64 Mbit/s

95th percentile per-packet one-way delay: 298.785 ms

Loss rate: 6.28%

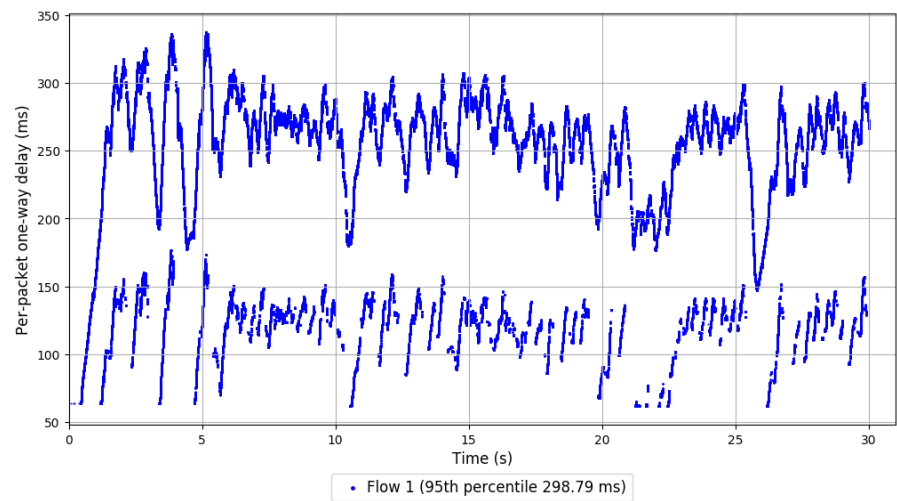
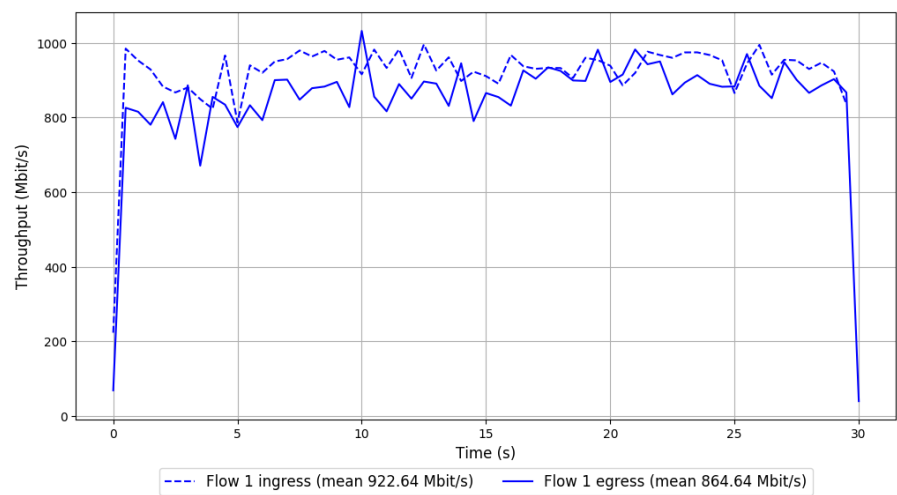
-- Flow 1:

Average throughput: 864.64 Mbit/s

95th percentile per-packet one-way delay: 298.785 ms

Loss rate: 6.28%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-02-16 18:35:31

End at: 2018-02-16 18:36:01

Below is generated by plot.py at 2018-02-16 22:13:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 745.03 Mbit/s

95th percentile per-packet one-way delay: 335.373 ms

Loss rate: 9.89%

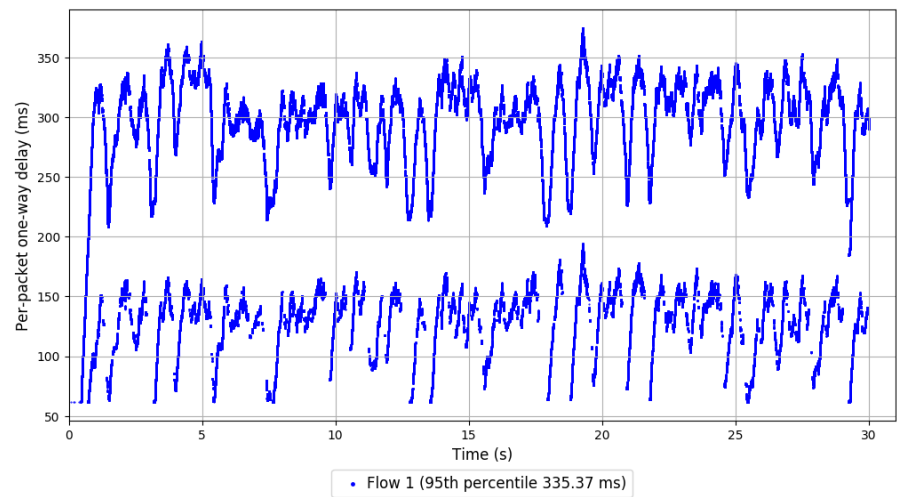
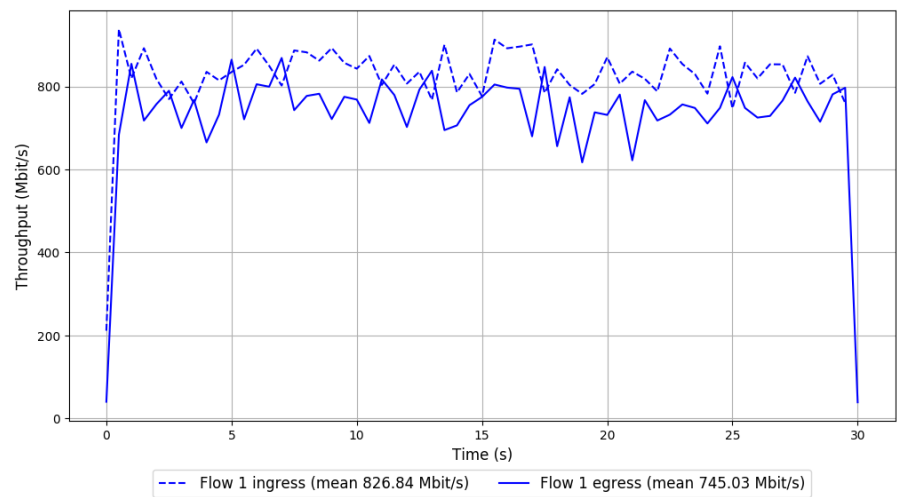
-- Flow 1:

Average throughput: 745.03 Mbit/s

95th percentile per-packet one-way delay: 335.373 ms

Loss rate: 9.89%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-02-16 18:50:12

End at: 2018-02-16 18:50:42

Below is generated by plot.py at 2018-02-16 22:13:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 819.54 Mbit/s

95th percentile per-packet one-way delay: 310.516 ms

Loss rate: 9.11%

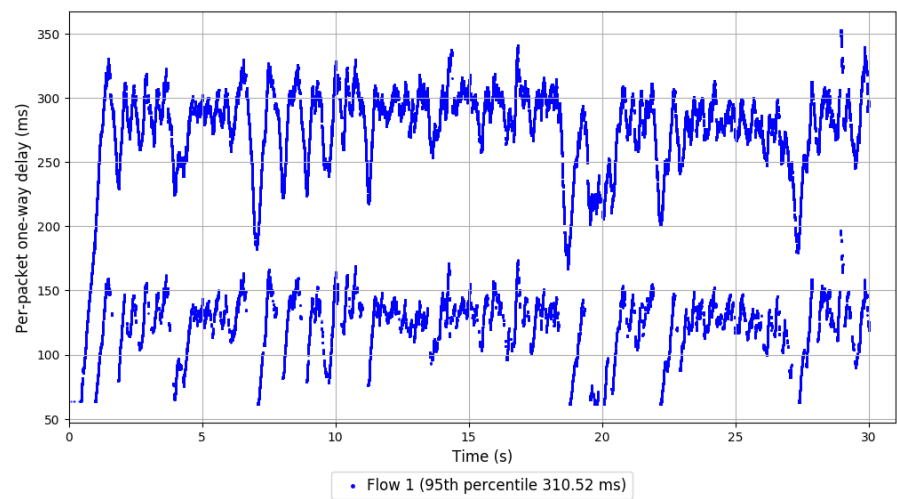
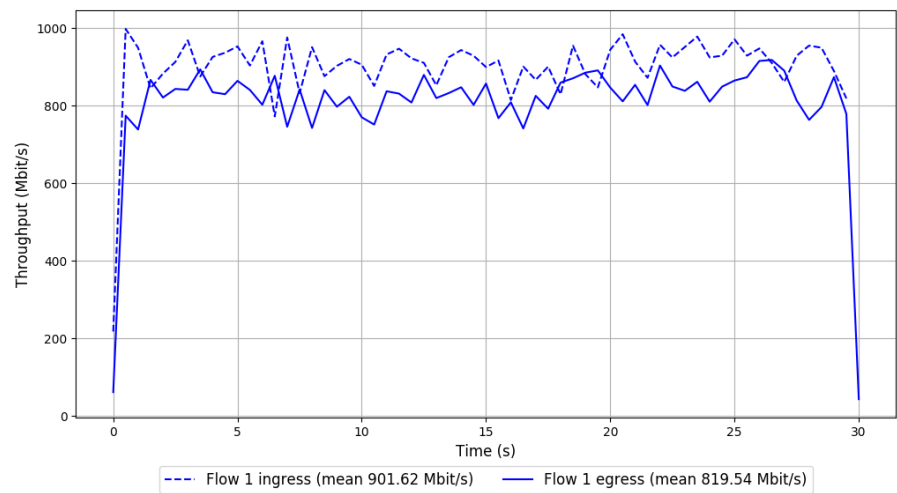
-- Flow 1:

Average throughput: 819.54 Mbit/s

95th percentile per-packet one-way delay: 310.516 ms

Loss rate: 9.11%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-02-16 19:05:06

End at: 2018-02-16 19:05:36

Below is generated by plot.py at 2018-02-16 22:13:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 463.48 Mbit/s

95th percentile per-packet one-way delay: 334.855 ms

Loss rate: 7.14%

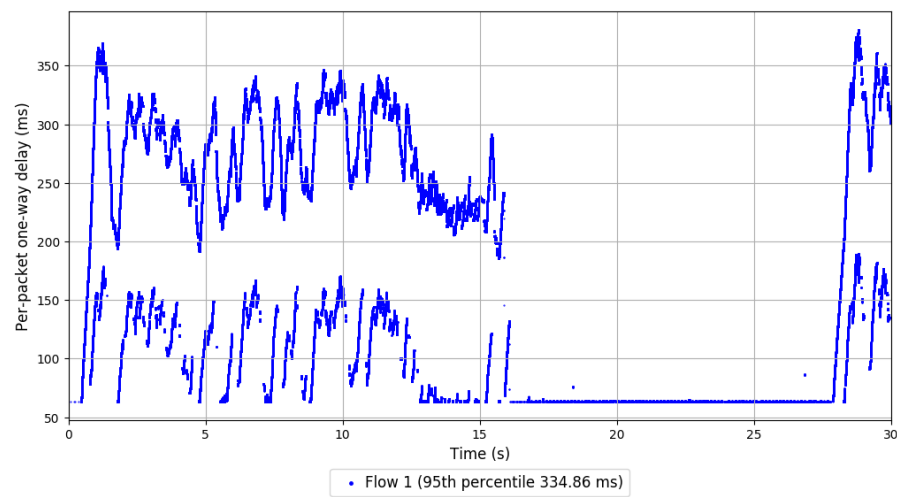
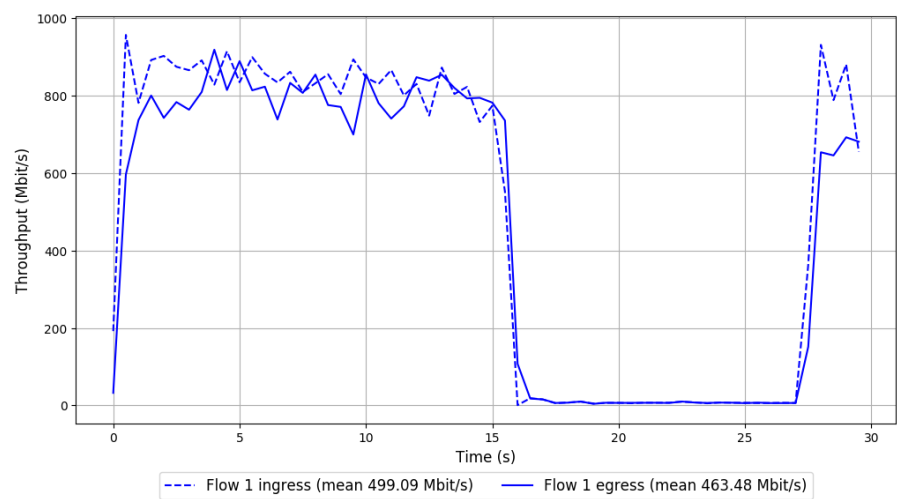
-- Flow 1:

Average throughput: 463.48 Mbit/s

95th percentile per-packet one-way delay: 334.855 ms

Loss rate: 7.14%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-02-16 19:19:49

End at: 2018-02-16 19:20:19

Below is generated by plot.py at 2018-02-16 22:23:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 810.22 Mbit/s

95th percentile per-packet one-way delay: 311.769 ms

Loss rate: 7.92%

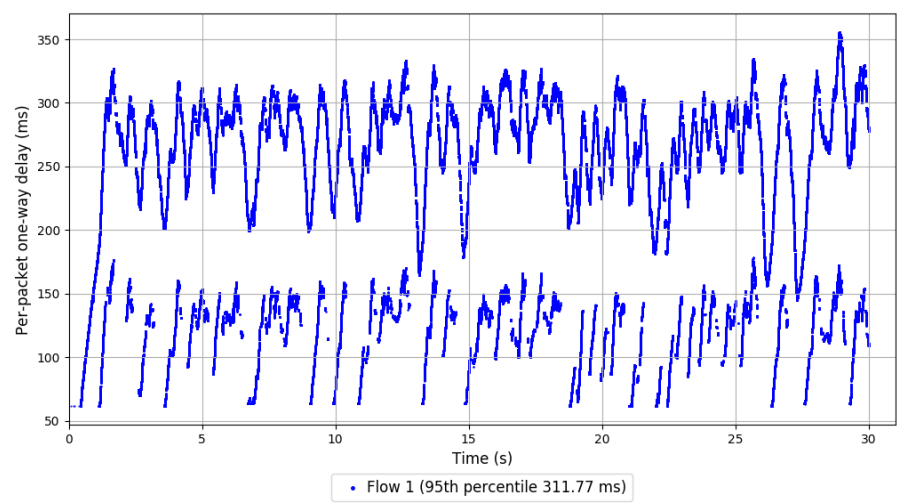
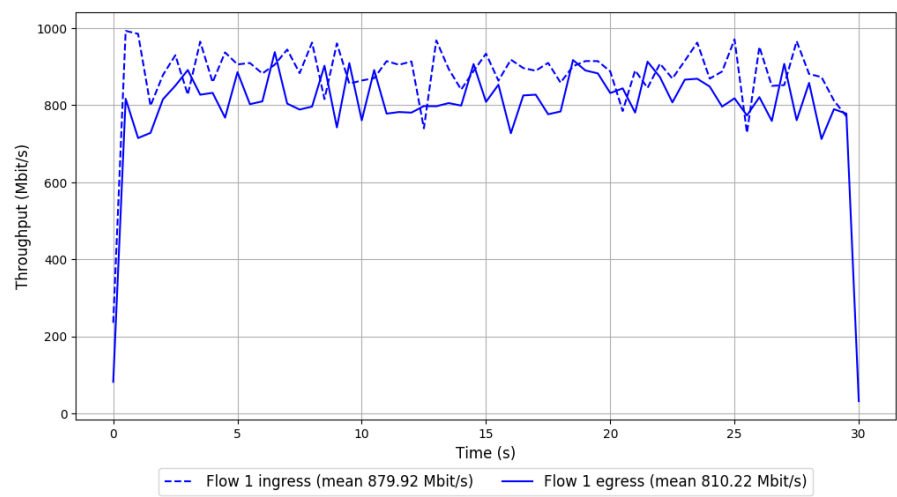
-- Flow 1:

Average throughput: 810.22 Mbit/s

95th percentile per-packet one-way delay: 311.769 ms

Loss rate: 7.92%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-02-16 19:34:36

End at: 2018-02-16 19:35:06

Below is generated by plot.py at 2018-02-16 22:26:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 844.48 Mbit/s

95th percentile per-packet one-way delay: 298.430 ms

Loss rate: 8.11%

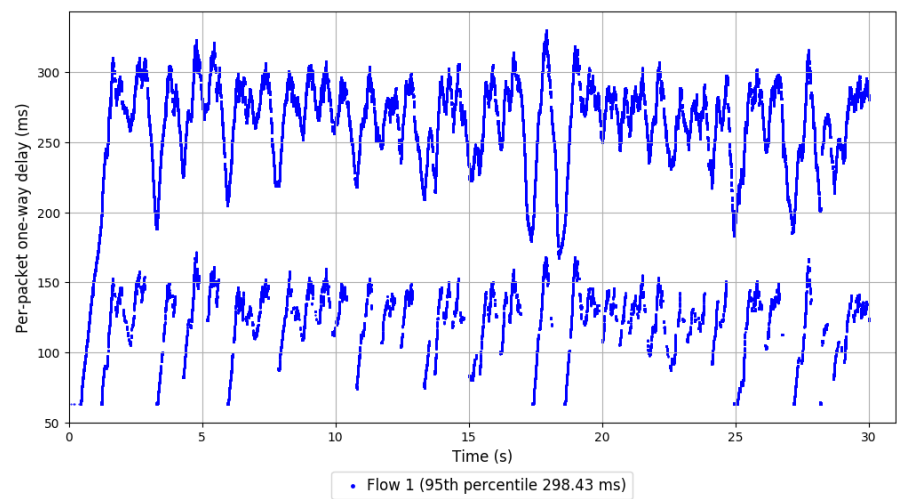
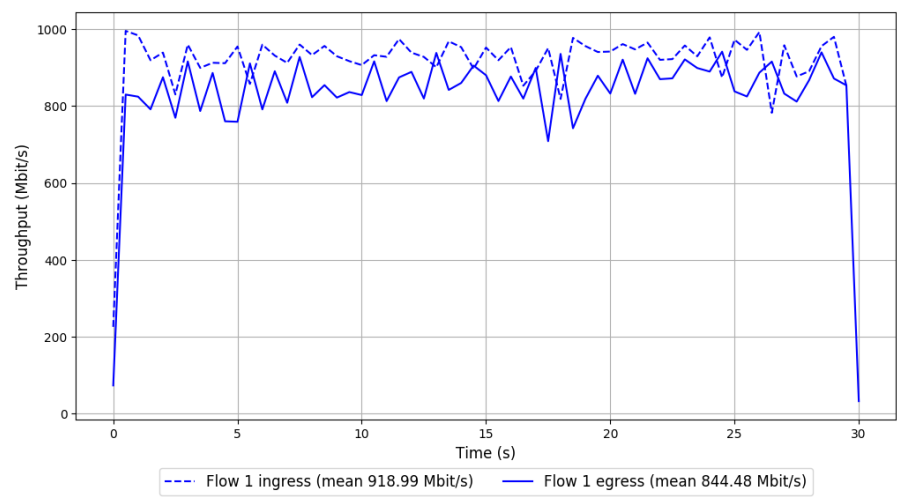
-- Flow 1:

Average throughput: 844.48 Mbit/s

95th percentile per-packet one-way delay: 298.430 ms

Loss rate: 8.11%

Run 10: Report of FillP — Data Link

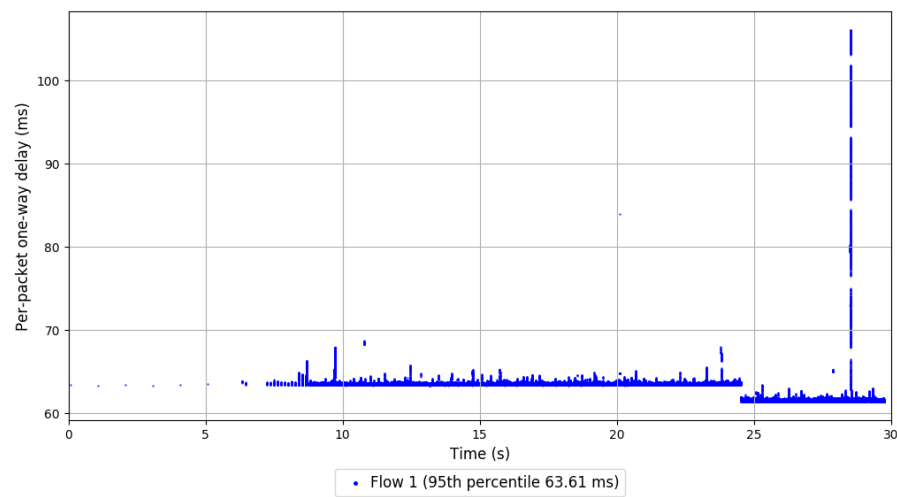
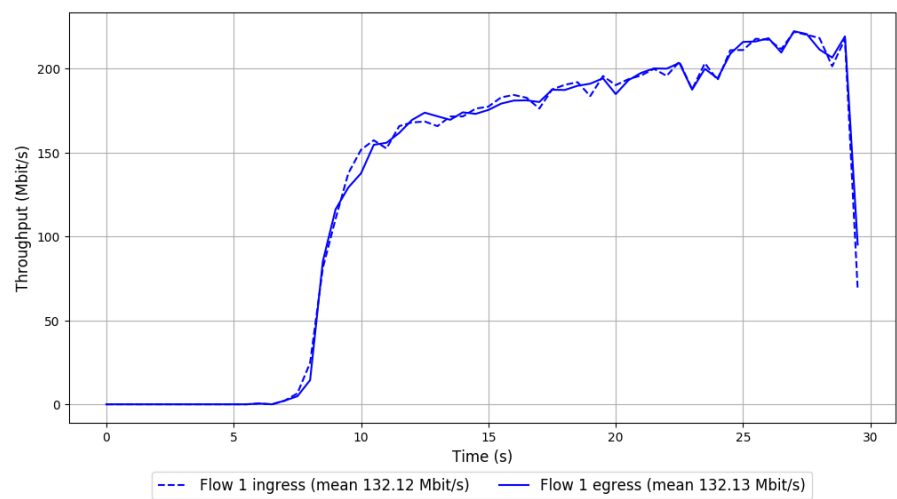


```
Run 1: Statistics of Indigo-1-32

Start at: 2018-02-16 17:09:21
End at: 2018-02-16 17:09:51

# Below is generated by plot.py at 2018-02-16 22:26:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 132.13 Mbit/s
95th percentile per-packet one-way delay: 63.611 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 132.13 Mbit/s
95th percentile per-packet one-way delay: 63.611 ms
Loss rate: 0.00%
```

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

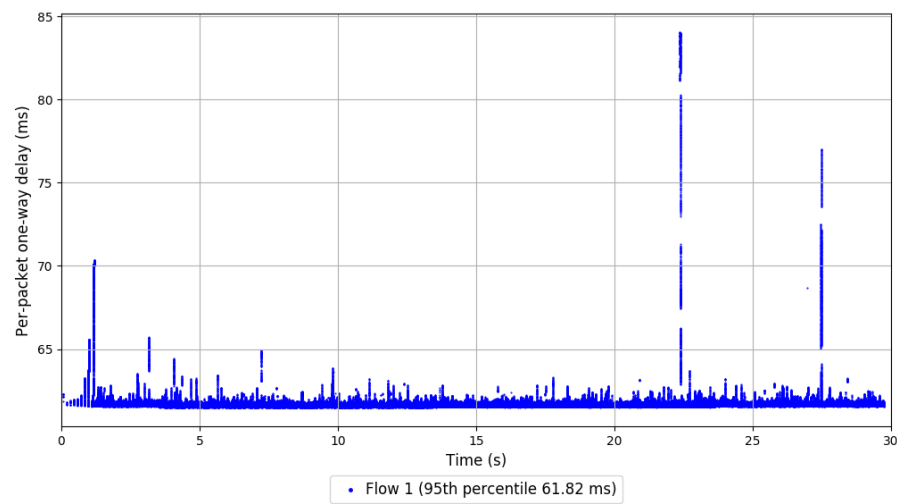
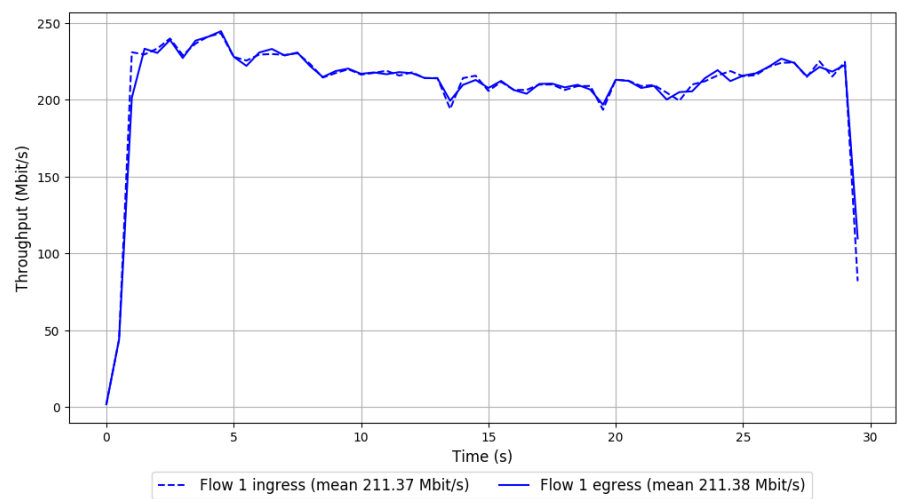


```
Run 2: Statistics of Indigo-1-32

Start at: 2018-02-16 17:24:02
End at: 2018-02-16 17:24:32

# Below is generated by plot.py at 2018-02-16 22:26:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 211.38 Mbit/s
95th percentile per-packet one-way delay: 61.818 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 211.38 Mbit/s
95th percentile per-packet one-way delay: 61.818 ms
Loss rate: 0.00%
```

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



Run 3: Statistics of Indigo-1-32

Start at: 2018-02-16 17:39:03

End at: 2018-02-16 17:39:33

Below is generated by plot.py at 2018-02-16 22:26:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 205.42 Mbit/s

95th percentile per-packet one-way delay: 61.931 ms

Loss rate: 0.00%

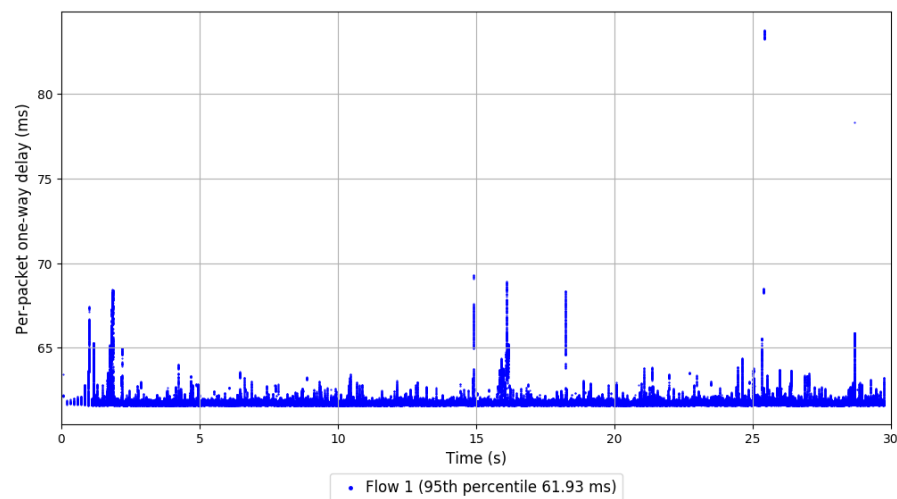
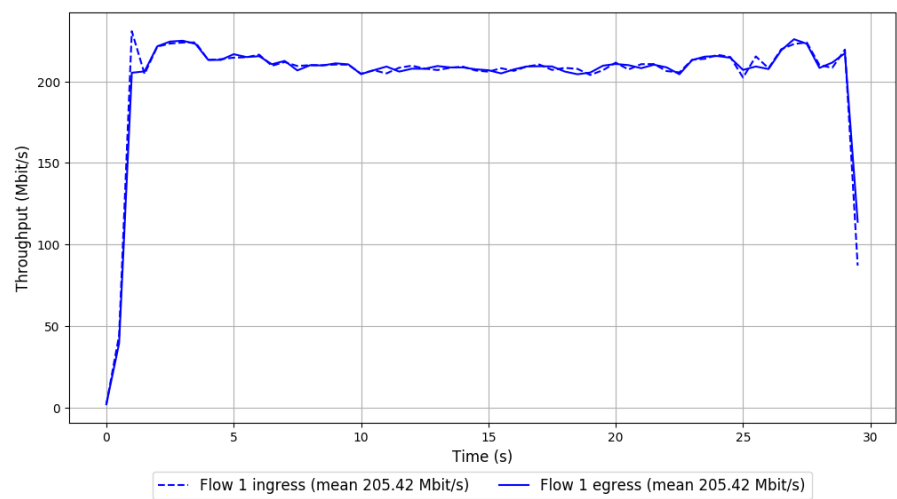
-- Flow 1:

Average throughput: 205.42 Mbit/s

95th percentile per-packet one-way delay: 61.931 ms

Loss rate: 0.00%

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



Run 4: Statistics of Indigo-1-32

Start at: 2018-02-16 17:54:04

End at: 2018-02-16 17:54:34

Below is generated by plot.py at 2018-02-16 22:26:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 184.43 Mbit/s

95th percentile per-packet one-way delay: 63.988 ms

Loss rate: 0.01%

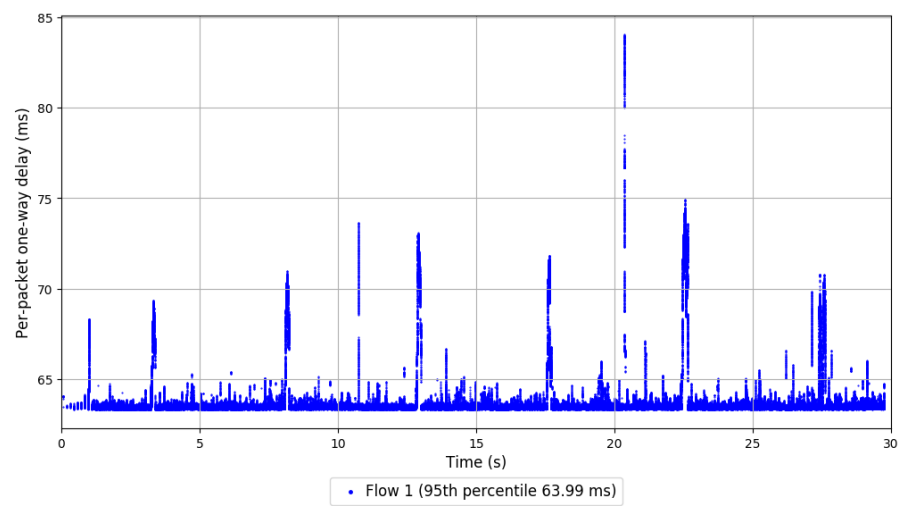
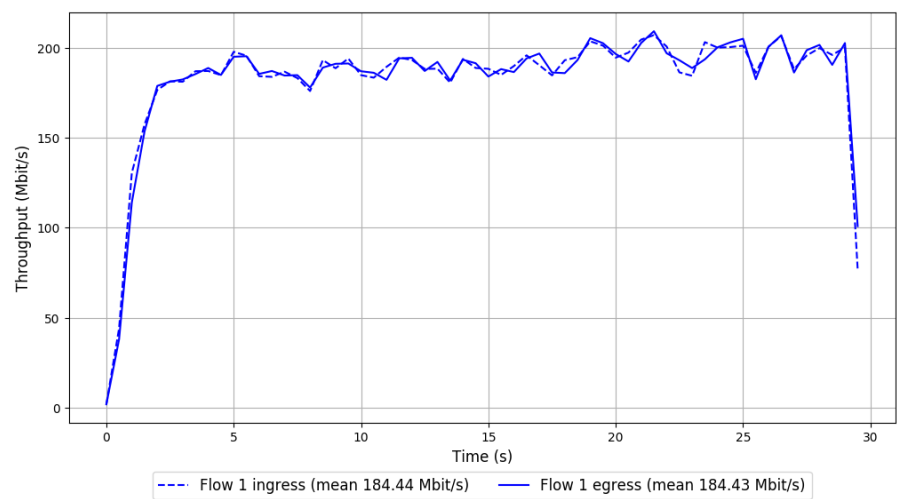
-- Flow 1:

Average throughput: 184.43 Mbit/s

95th percentile per-packet one-way delay: 63.988 ms

Loss rate: 0.01%

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



Run 5: Statistics of Indigo-1-32

Start at: 2018-02-16 18:08:52

End at: 2018-02-16 18:09:22

Below is generated by plot.py at 2018-02-16 22:26:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 206.17 Mbit/s

95th percentile per-packet one-way delay: 66.454 ms

Loss rate: 0.00%

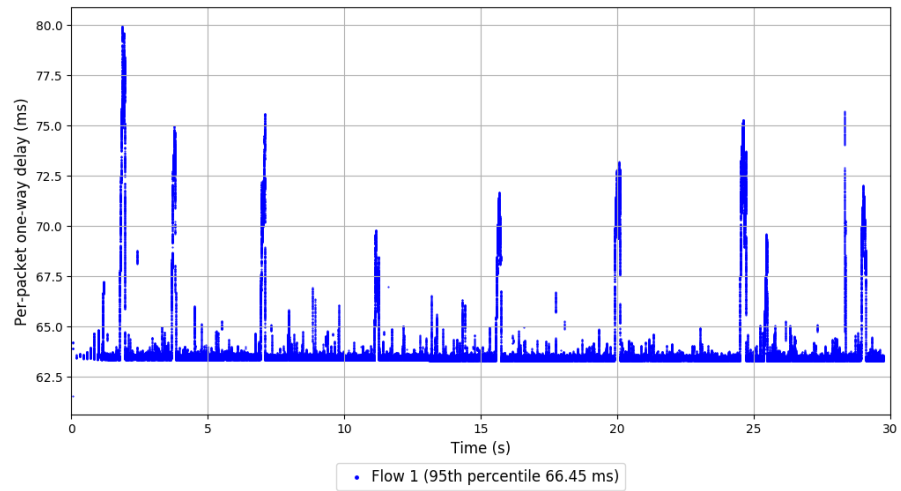
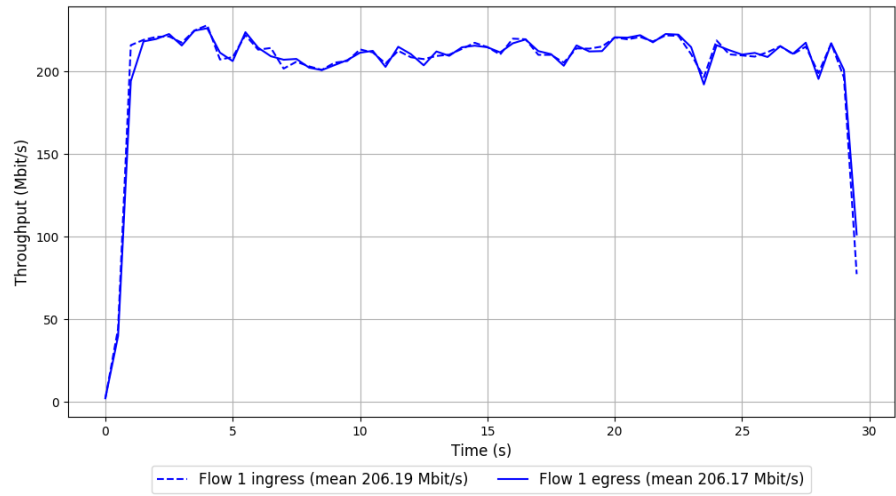
-- Flow 1:

Average throughput: 206.17 Mbit/s

95th percentile per-packet one-way delay: 66.454 ms

Loss rate: 0.00%

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



Run 6: Statistics of Indigo-1-32

Start at: 2018-02-16 18:23:43

End at: 2018-02-16 18:24:13

Below is generated by plot.py at 2018-02-16 22:26:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 213.48 Mbit/s

95th percentile per-packet one-way delay: 64.985 ms

Loss rate: 0.00%

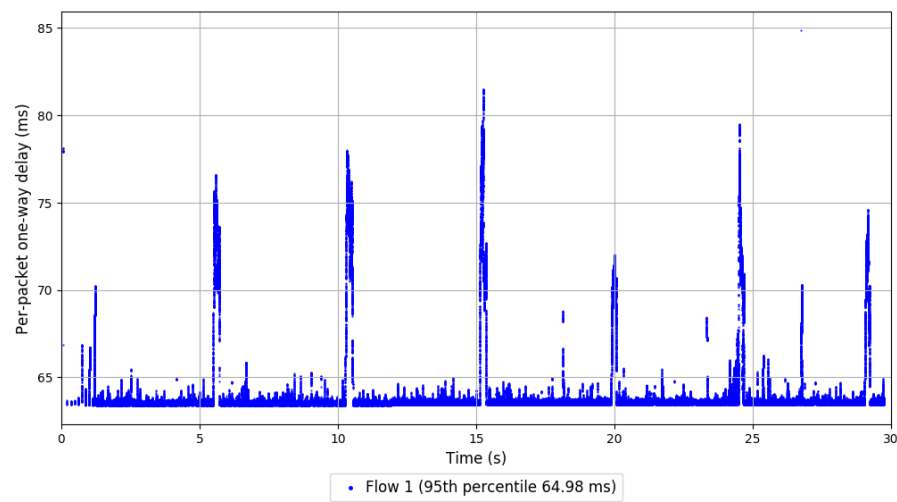
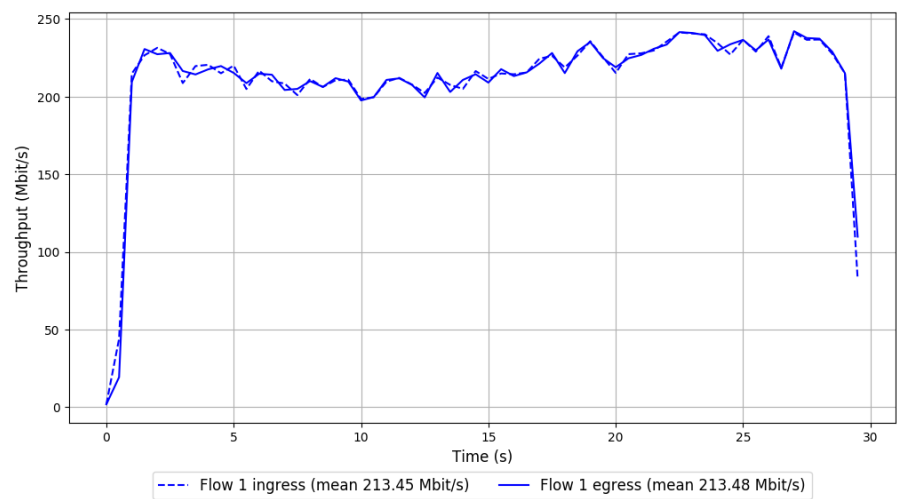
-- Flow 1:

Average throughput: 213.48 Mbit/s

95th percentile per-packet one-way delay: 64.985 ms

Loss rate: 0.00%

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



Run 7: Statistics of Indigo-1-32

Start at: 2018-02-16 18:38:43

End at: 2018-02-16 18:39:13

Below is generated by plot.py at 2018-02-16 22:26:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 207.91 Mbit/s

95th percentile per-packet one-way delay: 64.035 ms

Loss rate: 0.01%

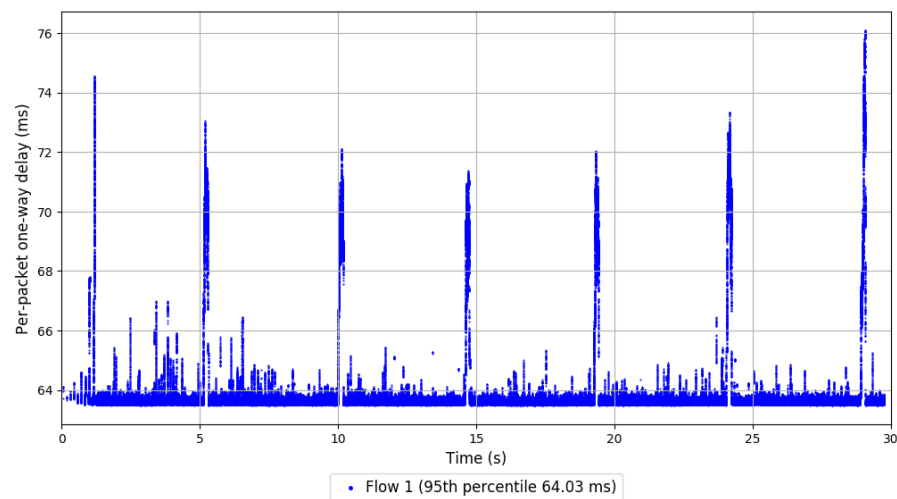
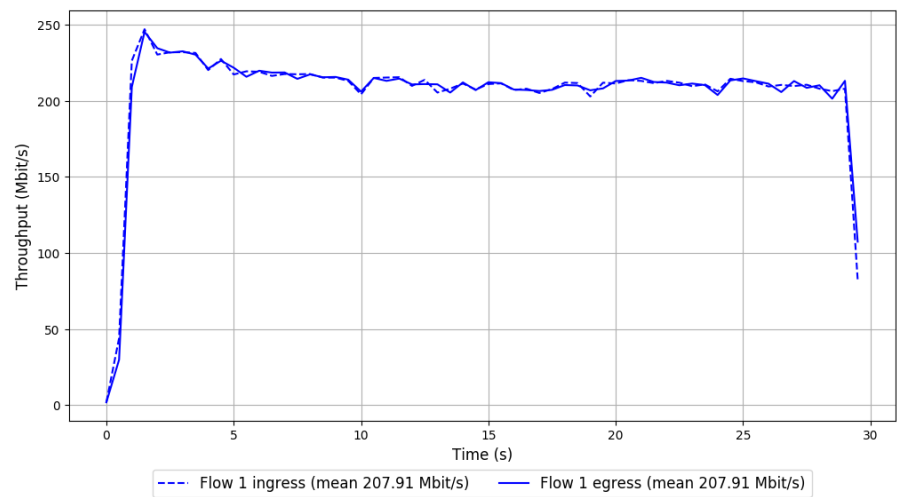
-- Flow 1:

Average throughput: 207.91 Mbit/s

95th percentile per-packet one-way delay: 64.035 ms

Loss rate: 0.01%

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



Run 8: Statistics of Indigo-1-32

Start at: 2018-02-16 18:53:24

End at: 2018-02-16 18:53:54

Below is generated by plot.py at 2018-02-16 22:26:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 210.59 Mbit/s

95th percentile per-packet one-way delay: 63.650 ms

Loss rate: 0.00%

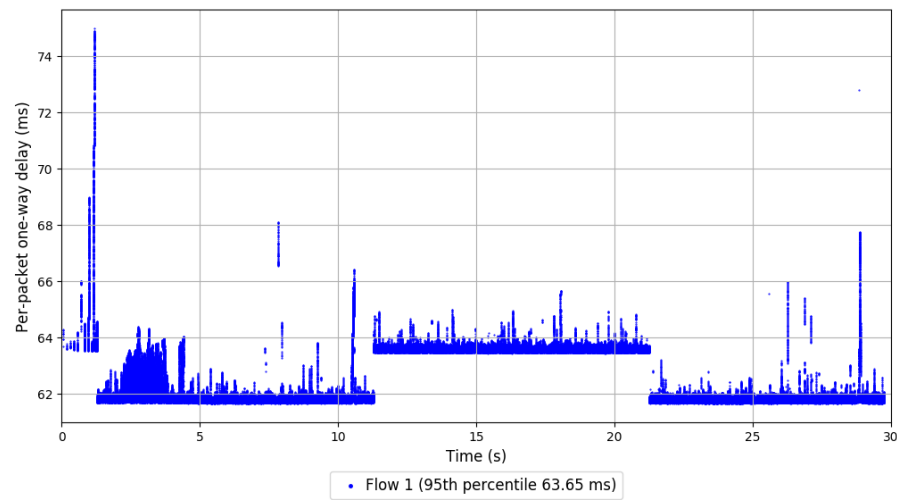
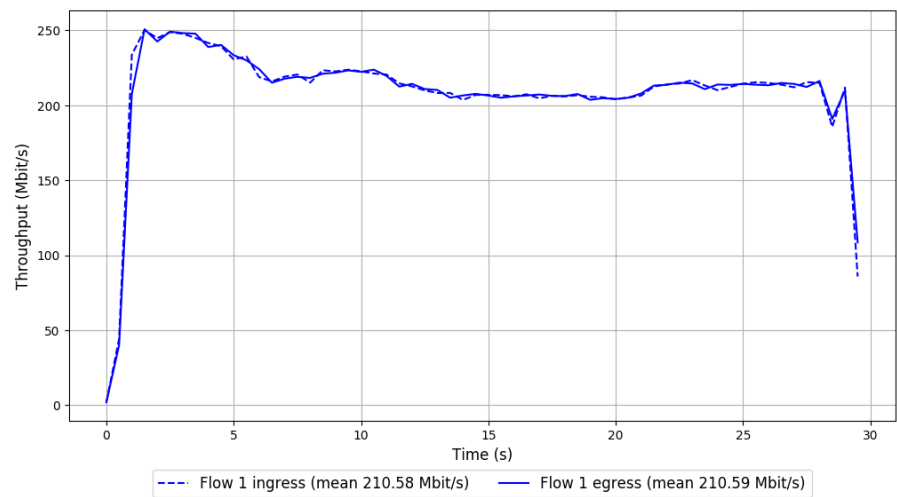
-- Flow 1:

Average throughput: 210.59 Mbit/s

95th percentile per-packet one-way delay: 63.650 ms

Loss rate: 0.00%

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



Run 9: Statistics of Indigo-1-32

Start at: 2018-02-16 19:08:01

End at: 2018-02-16 19:08:31

Below is generated by plot.py at 2018-02-16 22:26:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 208.54 Mbit/s

95th percentile per-packet one-way delay: 63.642 ms

Loss rate: 0.00%

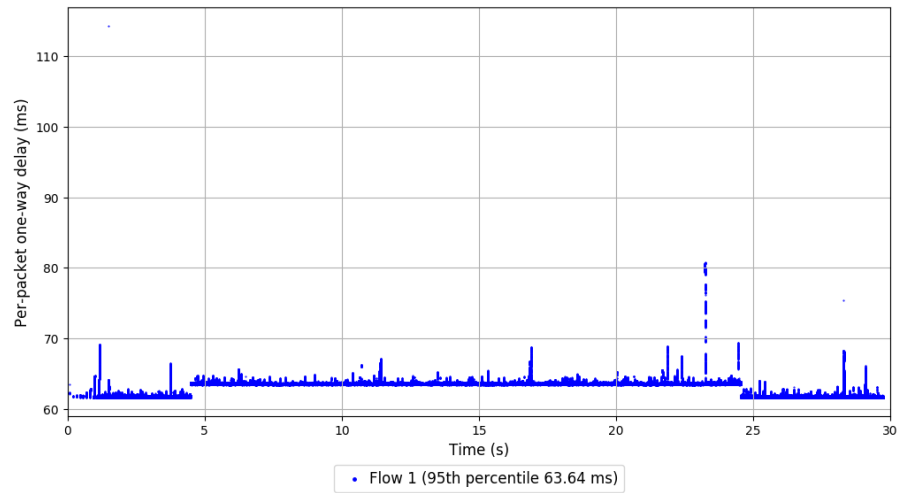
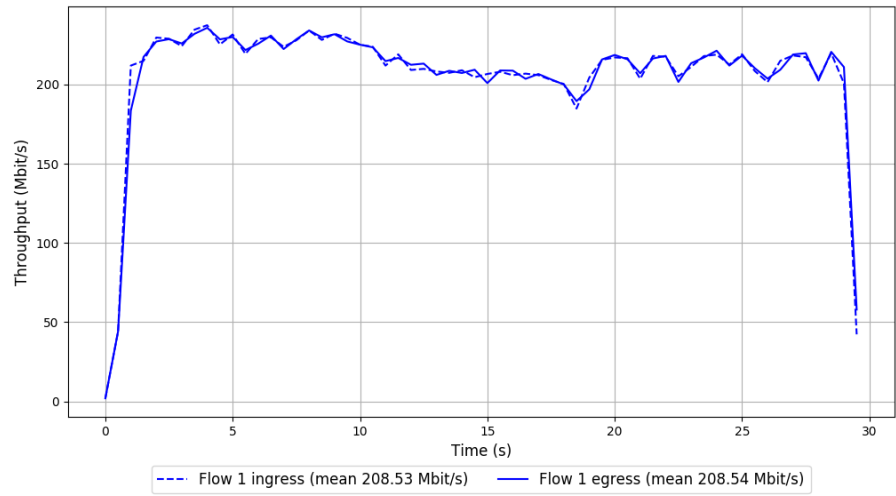
-- Flow 1:

Average throughput: 208.54 Mbit/s

95th percentile per-packet one-way delay: 63.642 ms

Loss rate: 0.00%

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



Run 10: Statistics of Indigo-1-32

Start at: 2018-02-16 19:23:01

End at: 2018-02-16 19:23:31

Below is generated by plot.py at 2018-02-16 22:26:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 213.19 Mbit/s

95th percentile per-packet one-way delay: 63.560 ms

Loss rate: 0.00%

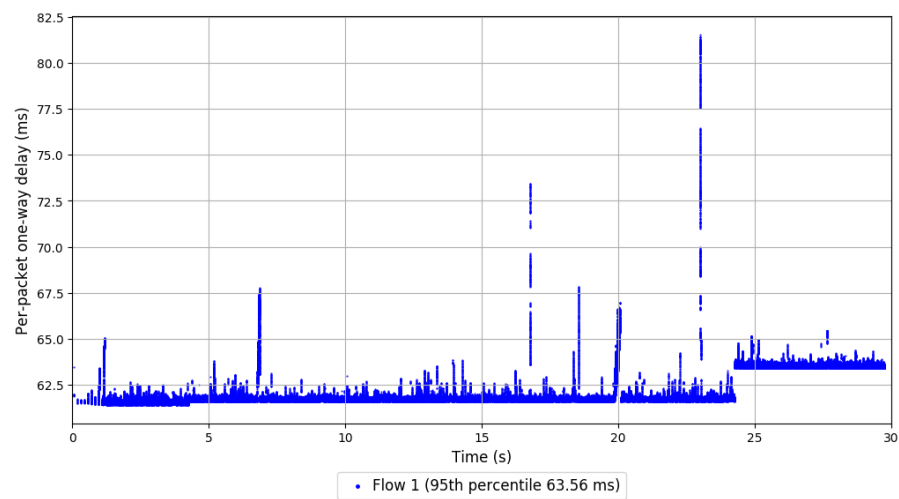
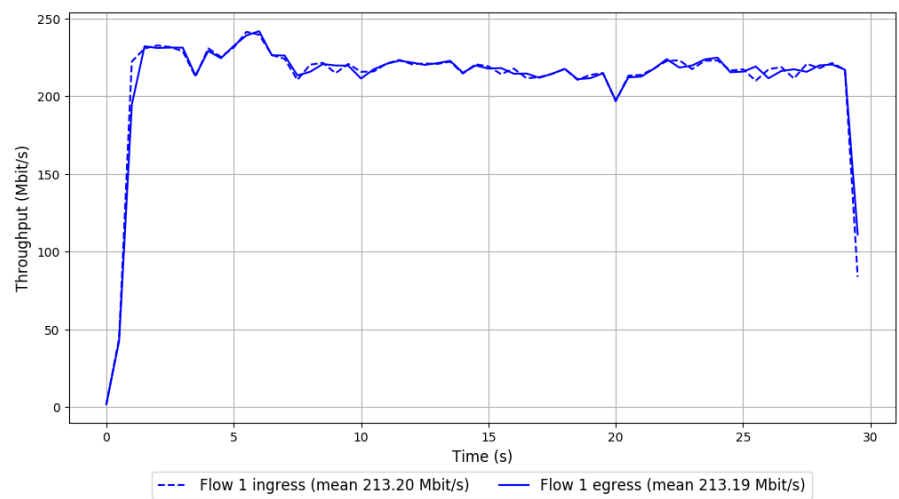
-- Flow 1:

Average throughput: 213.19 Mbit/s

95th percentile per-packet one-way delay: 63.560 ms

Loss rate: 0.00%

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



Run 1: Statistics of Vivace-latency

Start at: 2018-02-16 17:16:21

End at: 2018-02-16 17:16:51

Below is generated by plot.py at 2018-02-16 22:26:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 333.73 Mbit/s

95th percentile per-packet one-way delay: 63.903 ms

Loss rate: 0.00%

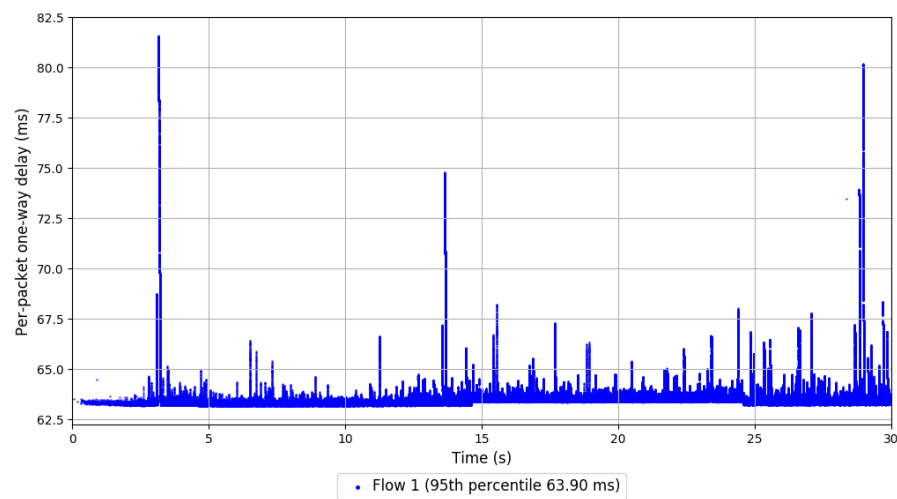
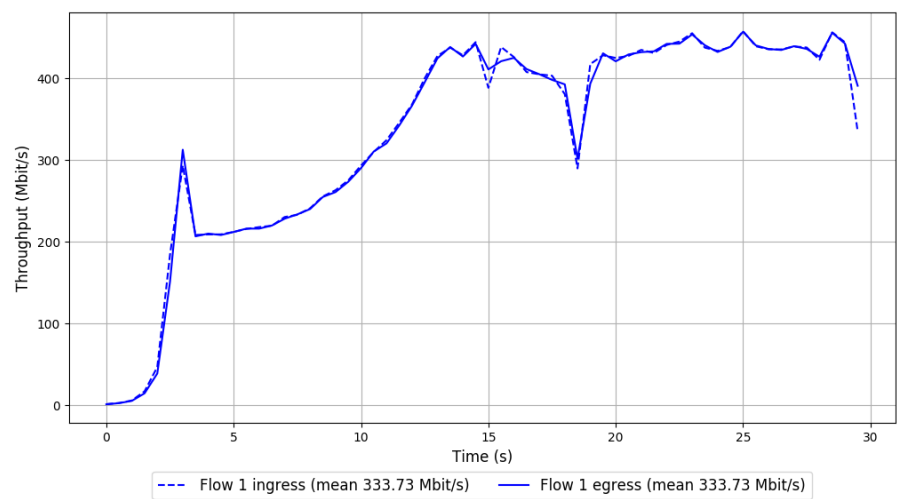
-- Flow 1:

Average throughput: 333.73 Mbit/s

95th percentile per-packet one-way delay: 63.903 ms

Loss rate: 0.00%

Run 1: Report of Vivace-latency — Data Link



Run 2: Statistics of Vivace-latency

Start at: 2018-02-16 17:31:11

End at: 2018-02-16 17:31:41

Below is generated by plot.py at 2018-02-16 22:26:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 367.85 Mbit/s

95th percentile per-packet one-way delay: 64.970 ms

Loss rate: 0.01%

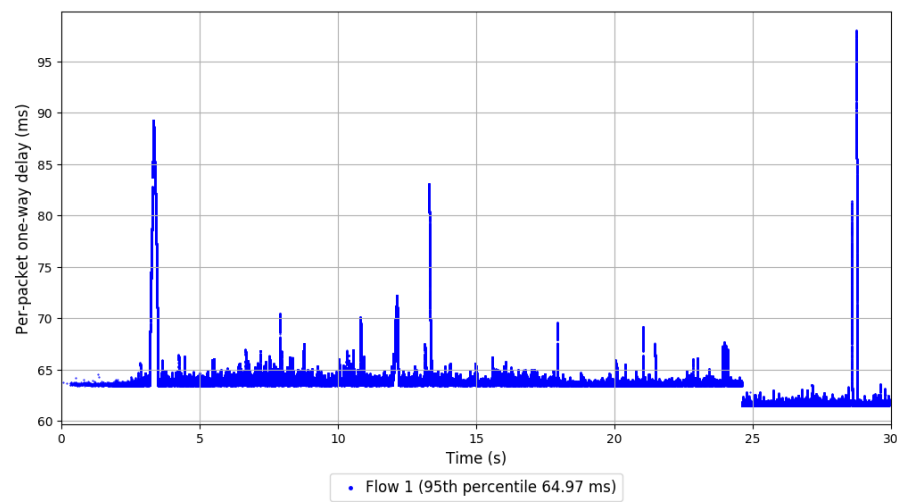
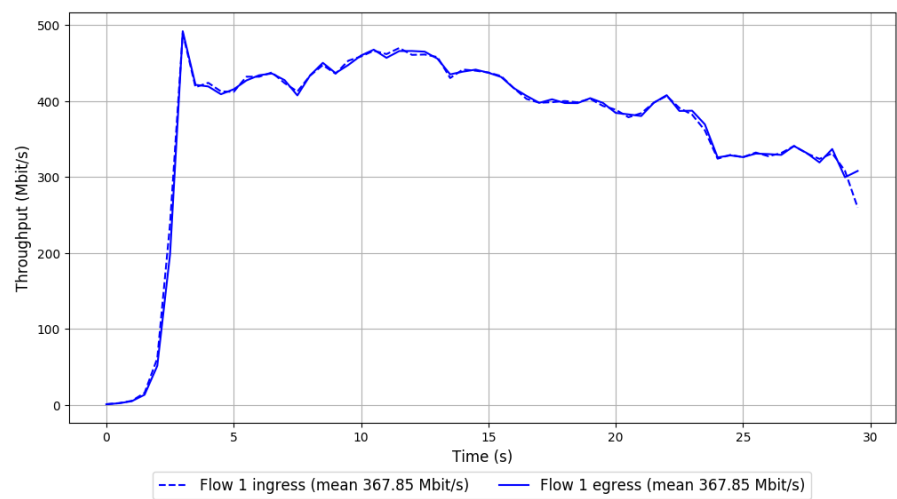
-- Flow 1:

Average throughput: 367.85 Mbit/s

95th percentile per-packet one-way delay: 64.970 ms

Loss rate: 0.01%

Run 2: Report of Vivace-latency — Data Link



Run 3: Statistics of Vivace-latency

Start at: 2018-02-16 17:46:18

End at: 2018-02-16 17:46:48

Below is generated by plot.py at 2018-02-16 22:26:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 389.62 Mbit/s

95th percentile per-packet one-way delay: 65.713 ms

Loss rate: 0.01%

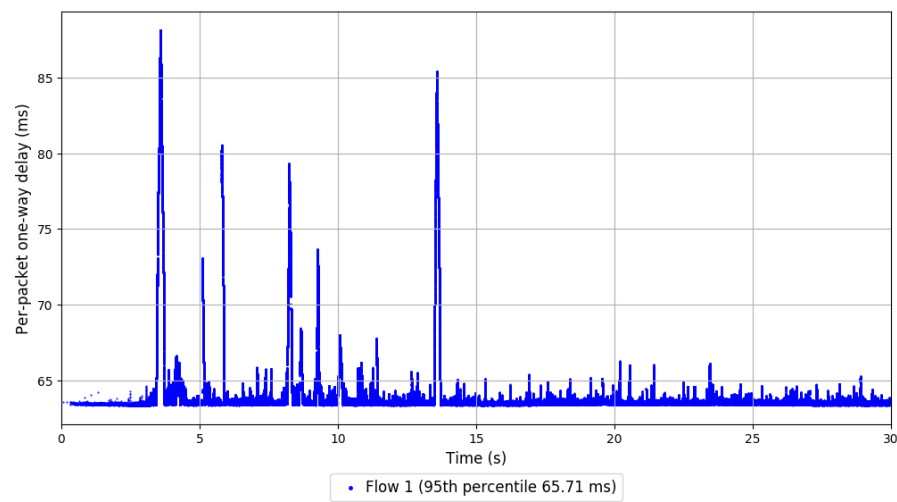
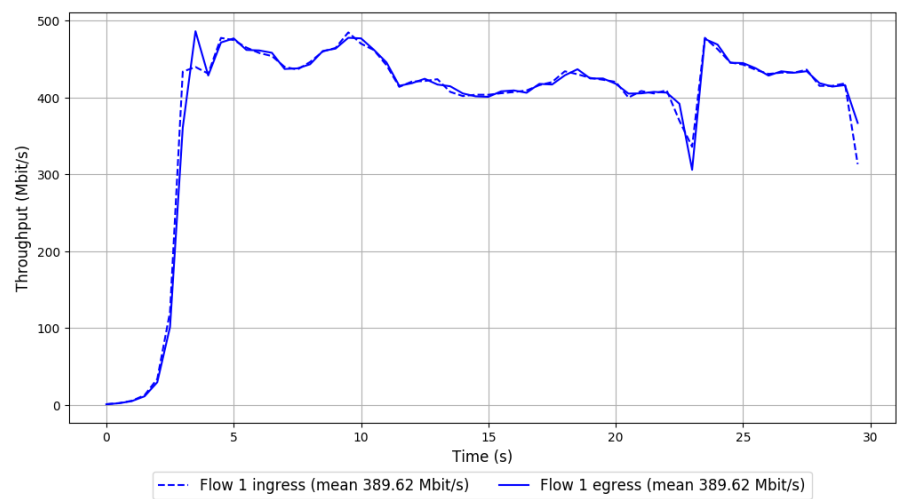
-- Flow 1:

Average throughput: 389.62 Mbit/s

95th percentile per-packet one-way delay: 65.713 ms

Loss rate: 0.01%

Run 3: Report of Vivace-latency — Data Link



Run 4: Statistics of Vivace-latency

Start at: 2018-02-16 18:01:10

End at: 2018-02-16 18:01:40

Below is generated by plot.py at 2018-02-16 22:26:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 382.22 Mbit/s

95th percentile per-packet one-way delay: 64.168 ms

Loss rate: 0.00%

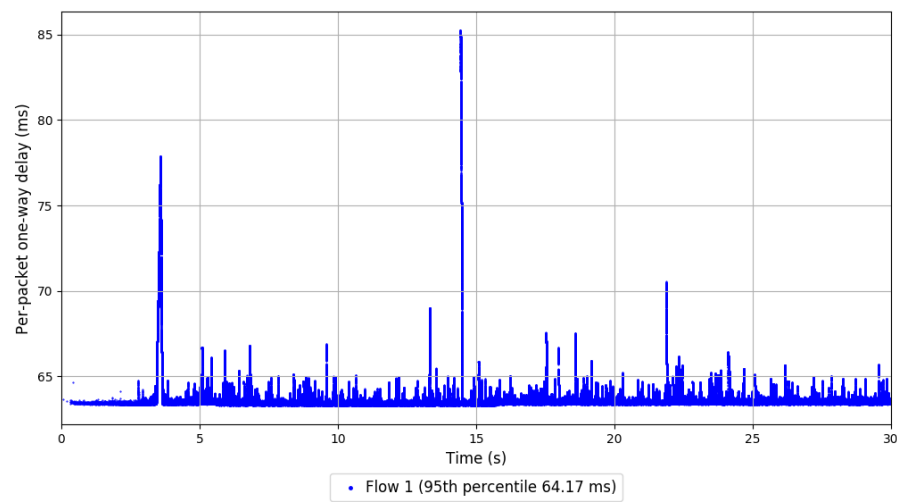
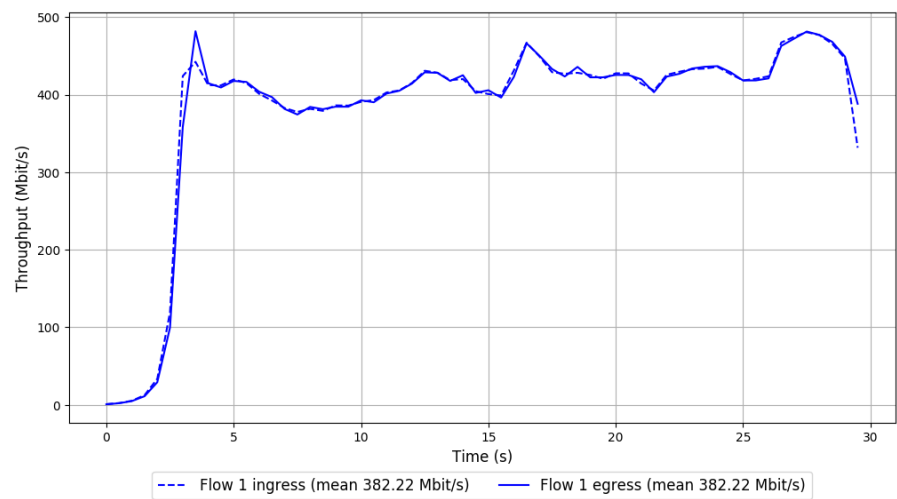
-- Flow 1:

Average throughput: 382.22 Mbit/s

95th percentile per-packet one-way delay: 64.168 ms

Loss rate: 0.00%

Run 4: Report of Vivace-latency — Data Link



Run 5: Statistics of Vivace-latency

Start at: 2018-02-16 18:15:56

End at: 2018-02-16 18:16:26

Below is generated by plot.py at 2018-02-16 22:26:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 401.79 Mbit/s

95th percentile per-packet one-way delay: 63.676 ms

Loss rate: 0.01%

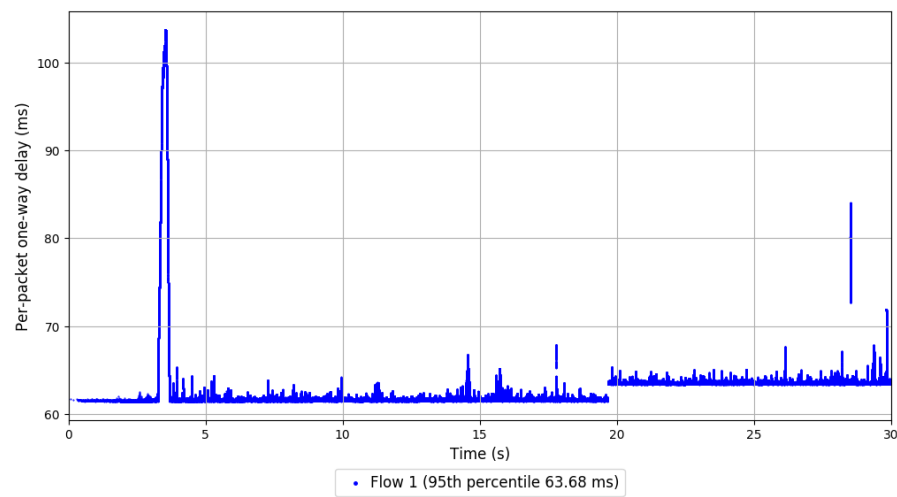
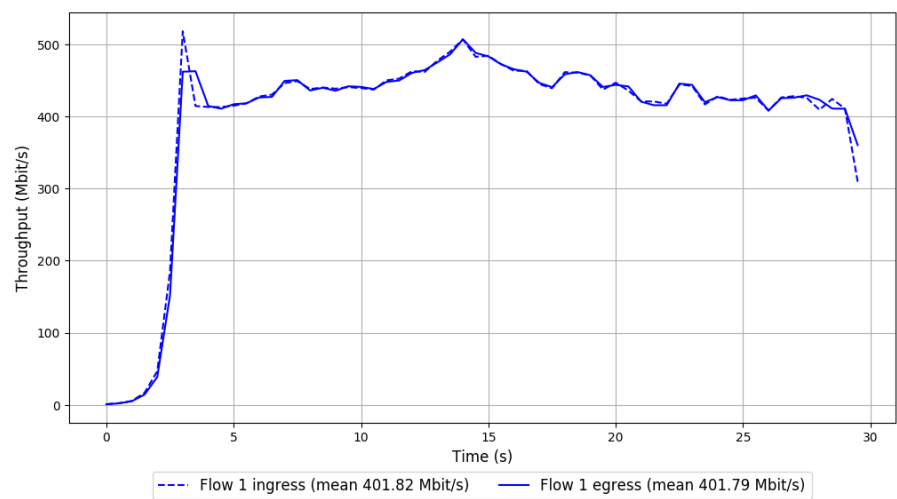
-- Flow 1:

Average throughput: 401.79 Mbit/s

95th percentile per-packet one-way delay: 63.676 ms

Loss rate: 0.01%

Run 5: Report of Vivace-latency — Data Link



Run 6: Statistics of Vivace-latency

Start at: 2018-02-16 18:30:53

End at: 2018-02-16 18:31:23

Below is generated by plot.py at 2018-02-16 22:26:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 389.78 Mbit/s

95th percentile per-packet one-way delay: 64.092 ms

Loss rate: 0.00%

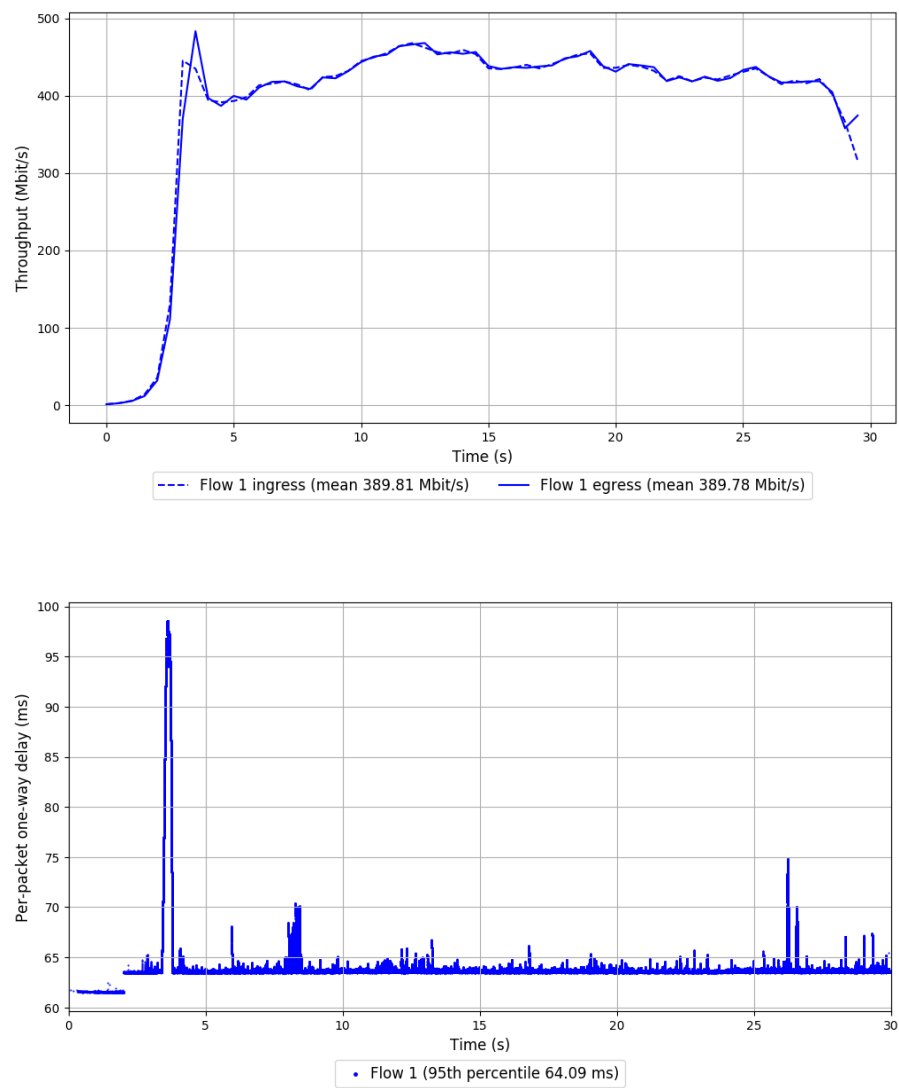
-- Flow 1:

Average throughput: 389.78 Mbit/s

95th percentile per-packet one-way delay: 64.092 ms

Loss rate: 0.00%

Run 6: Report of Vivace-latency — Data Link



Run 7: Statistics of Vivace-latency

Start at: 2018-02-16 18:45:41

End at: 2018-02-16 18:46:11

Below is generated by plot.py at 2018-02-16 22:29:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 376.28 Mbit/s

95th percentile per-packet one-way delay: 68.150 ms

Loss rate: 0.00%

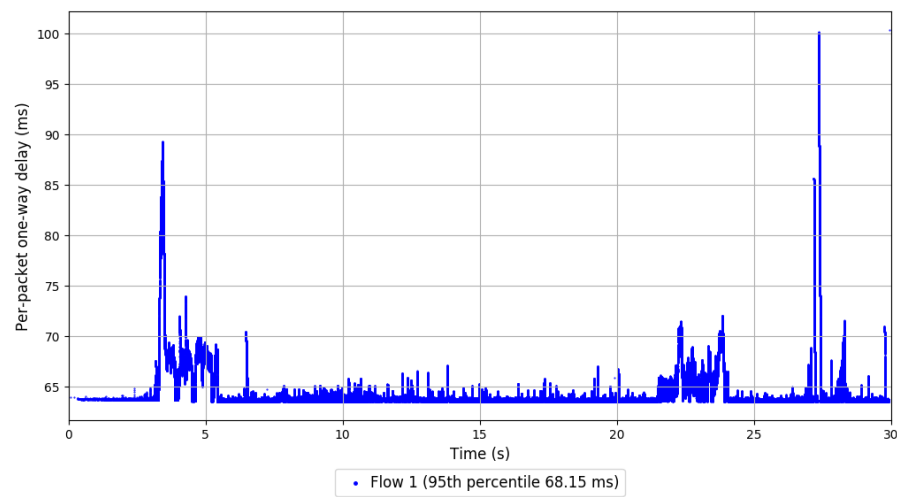
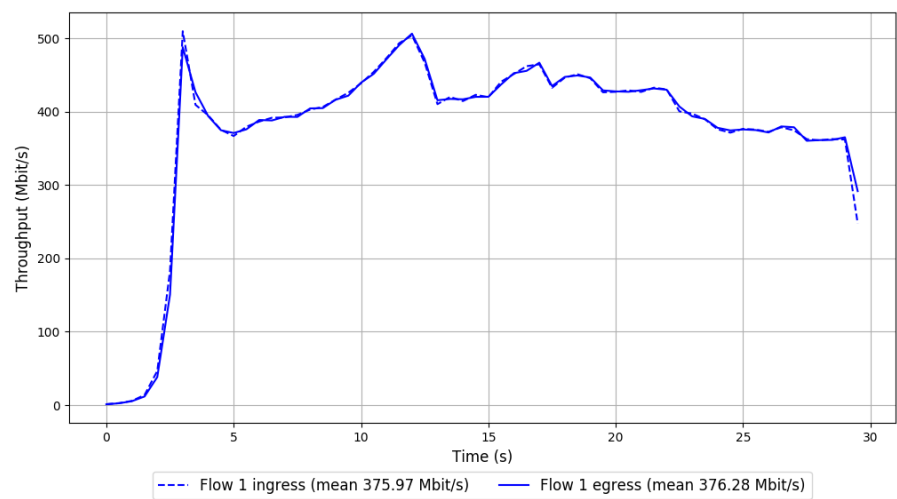
-- Flow 1:

Average throughput: 376.28 Mbit/s

95th percentile per-packet one-way delay: 68.150 ms

Loss rate: 0.00%

Run 7: Report of Vivace-latency — Data Link



Run 8: Statistics of Vivace-latency

Start at: 2018-02-16 19:00:32

End at: 2018-02-16 19:01:02

Below is generated by plot.py at 2018-02-16 22:30:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 404.33 Mbit/s

95th percentile per-packet one-way delay: 64.164 ms

Loss rate: 0.00%

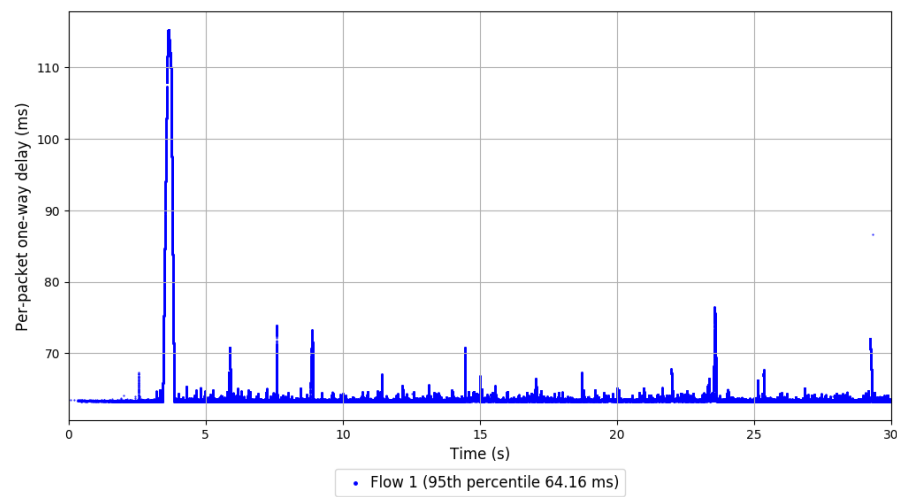
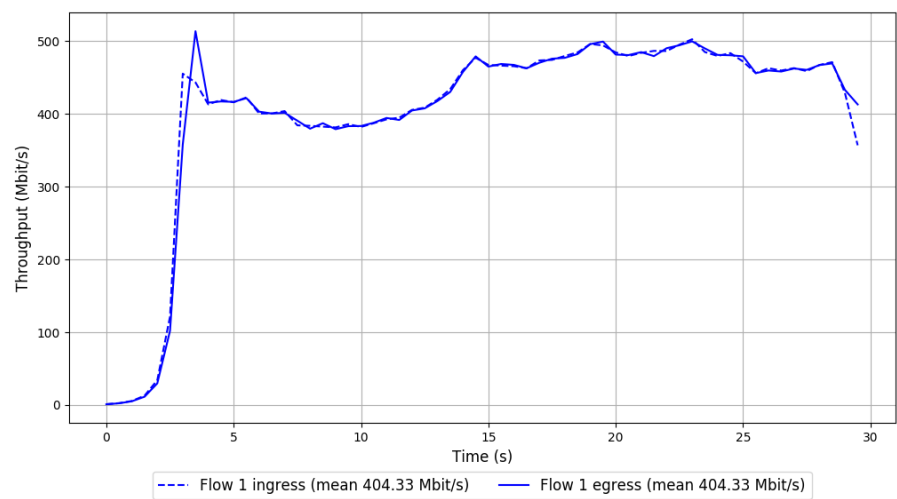
-- Flow 1:

Average throughput: 404.33 Mbit/s

95th percentile per-packet one-way delay: 64.164 ms

Loss rate: 0.00%

Run 8: Report of Vivace-latency — Data Link



Run 9: Statistics of Vivace-latency

Start at: 2018-02-16 19:15:10

End at: 2018-02-16 19:15:40

Below is generated by plot.py at 2018-02-16 22:31:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 407.69 Mbit/s

95th percentile per-packet one-way delay: 68.164 ms

Loss rate: 0.00%

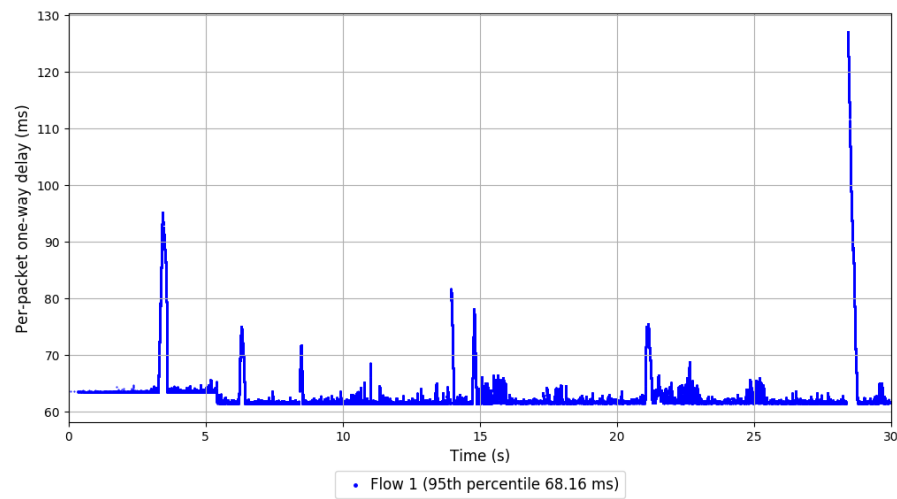
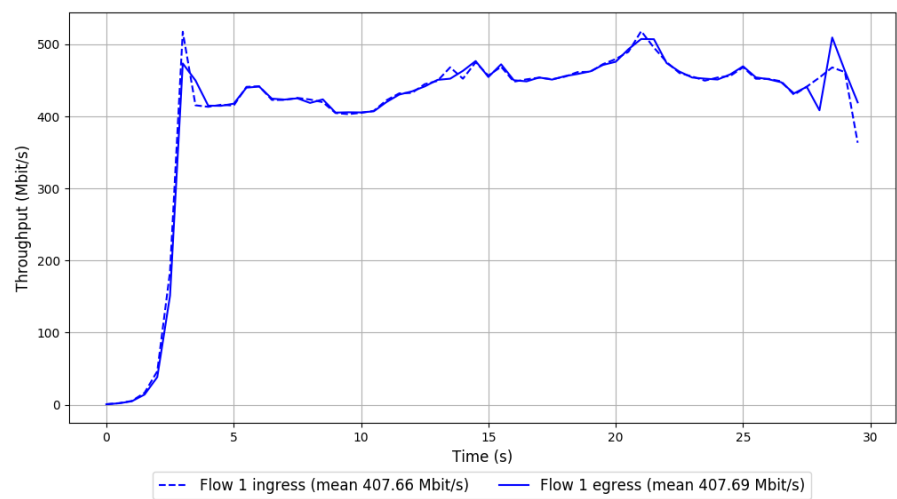
-- Flow 1:

Average throughput: 407.69 Mbit/s

95th percentile per-packet one-way delay: 68.164 ms

Loss rate: 0.00%

Run 9: Report of Vivace-latency — Data Link



Run 10: Statistics of Vivace-latency

Start at: 2018-02-16 19:30:13

End at: 2018-02-16 19:30:43

Below is generated by plot.py at 2018-02-16 22:31:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 283.71 Mbit/s

95th percentile per-packet one-way delay: 61.953 ms

Loss rate: 0.00%

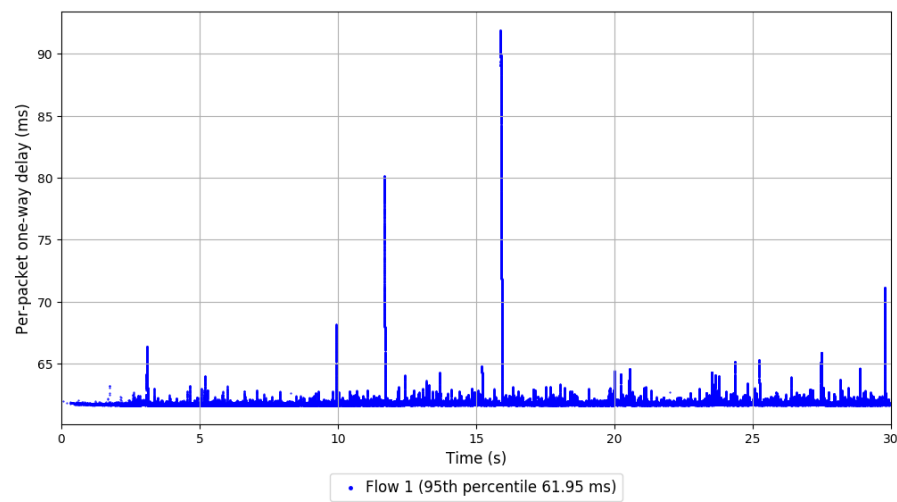
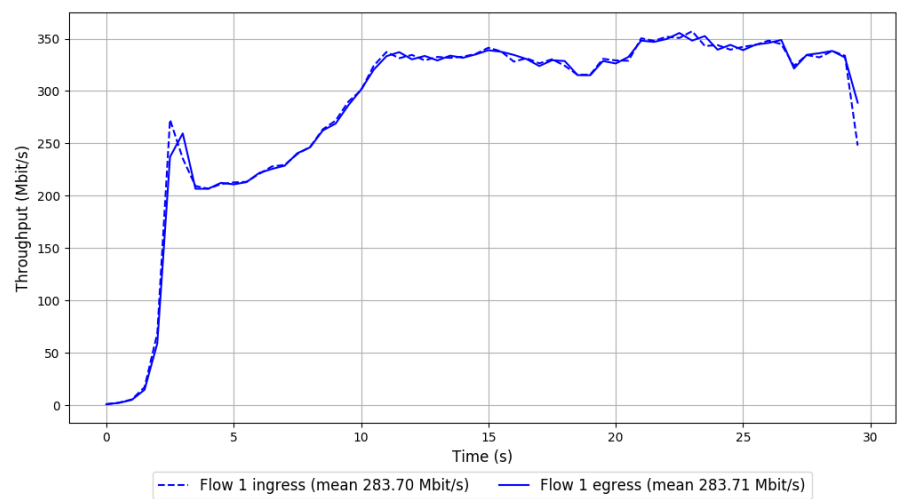
-- Flow 1:

Average throughput: 283.71 Mbit/s

95th percentile per-packet one-way delay: 61.953 ms

Loss rate: 0.00%

Run 10: Report of Vivace-latency — Data Link

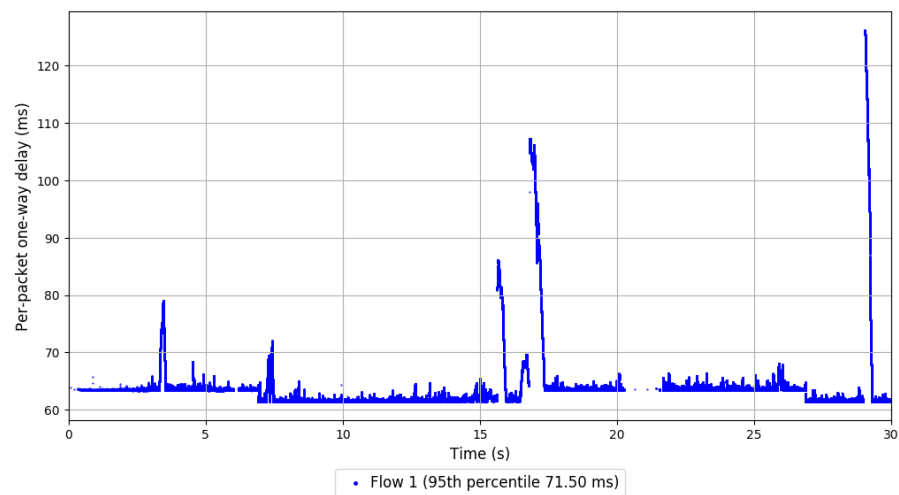
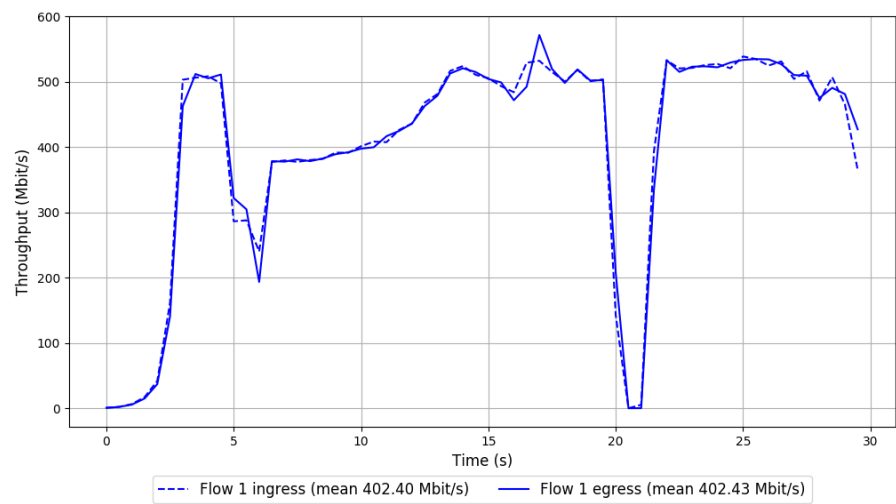


```
Run 1: Statistics of Vivace-loss

Start at: 2018-02-16 17:18:08
End at: 2018-02-16 17:18:39

# Below is generated by plot.py at 2018-02-16 22:32:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 402.43 Mbit/s
95th percentile per-packet one-way delay: 71.500 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 402.43 Mbit/s
95th percentile per-packet one-way delay: 71.500 ms
Loss rate: 0.00%
```

Run 1: Report of Vivace-loss — Data Link



Run 2: Statistics of Vivace-loss

Start at: 2018-02-16 17:32:59

End at: 2018-02-16 17:33:29

Below is generated by plot.py at 2018-02-16 22:33:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 399.49 Mbit/s

95th percentile per-packet one-way delay: 87.549 ms

Loss rate: 0.01%

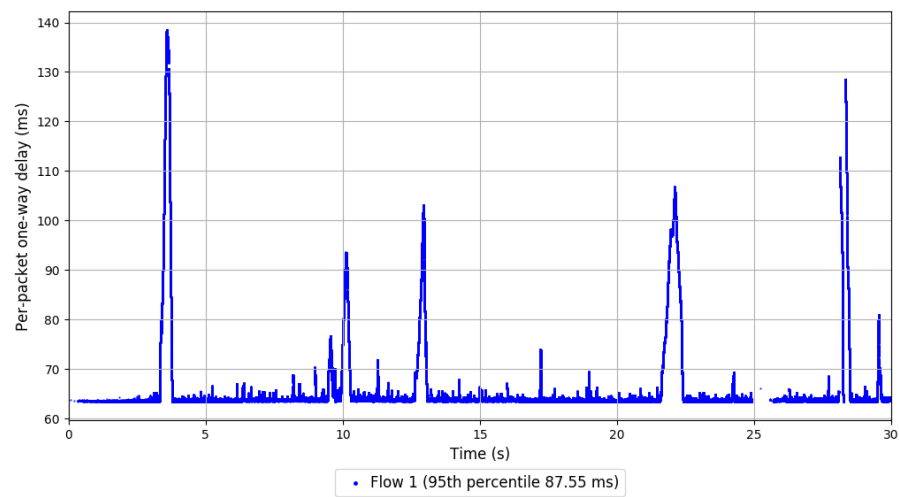
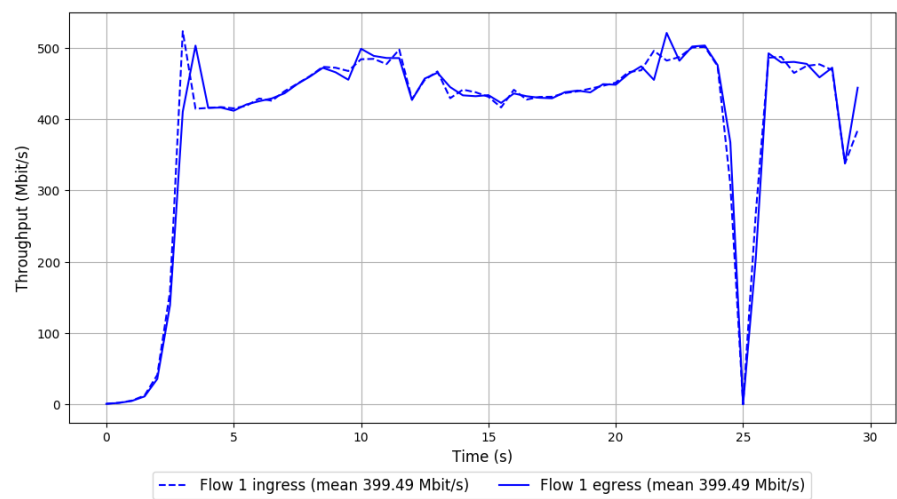
-- Flow 1:

Average throughput: 399.49 Mbit/s

95th percentile per-packet one-way delay: 87.549 ms

Loss rate: 0.01%

Run 2: Report of Vivace-loss — Data Link



Run 3: Statistics of Vivace-loss

Start at: 2018-02-16 17:48:09

End at: 2018-02-16 17:48:39

Below is generated by plot.py at 2018-02-16 22:33:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 398.76 Mbit/s

95th percentile per-packet one-way delay: 95.504 ms

Loss rate: 0.00%

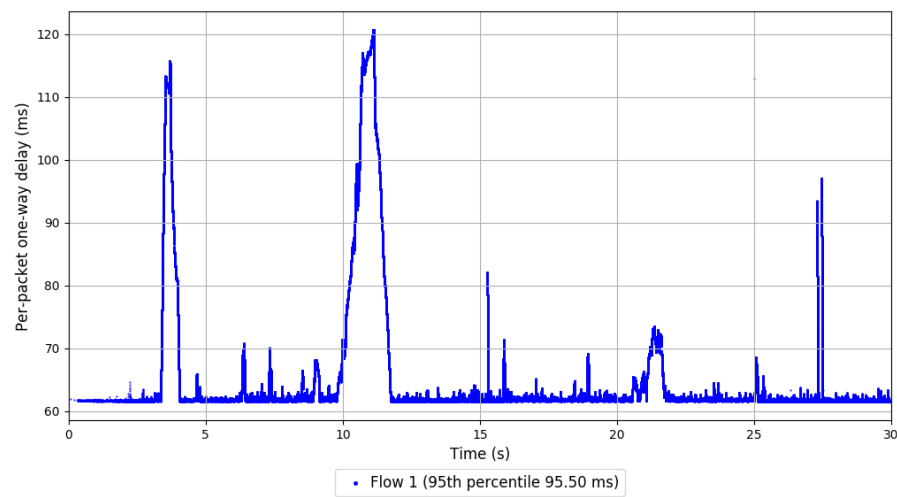
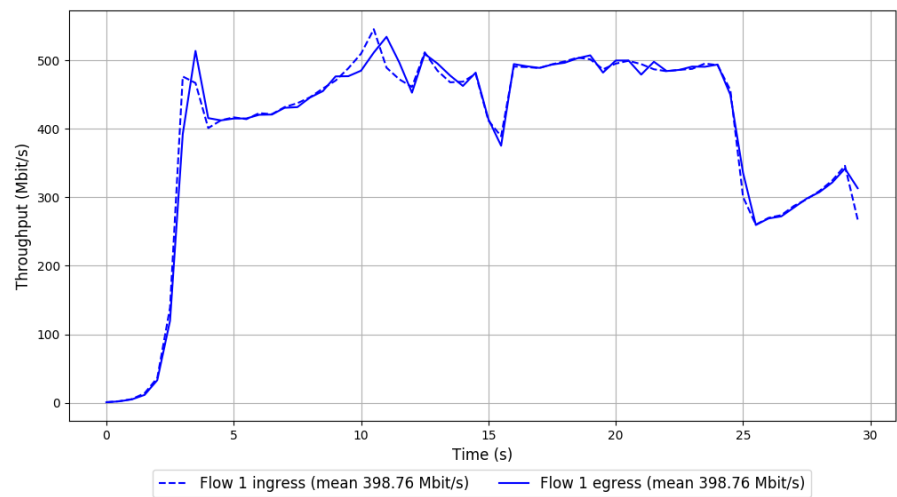
-- Flow 1:

Average throughput: 398.76 Mbit/s

95th percentile per-packet one-way delay: 95.504 ms

Loss rate: 0.00%

Run 3: Report of Vivace-loss — Data Link



Run 4: Statistics of Vivace-loss

Start at: 2018-02-16 18:02:59

End at: 2018-02-16 18:03:29

Below is generated by plot.py at 2018-02-16 22:34:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 416.07 Mbit/s

95th percentile per-packet one-way delay: 80.264 ms

Loss rate: 0.01%

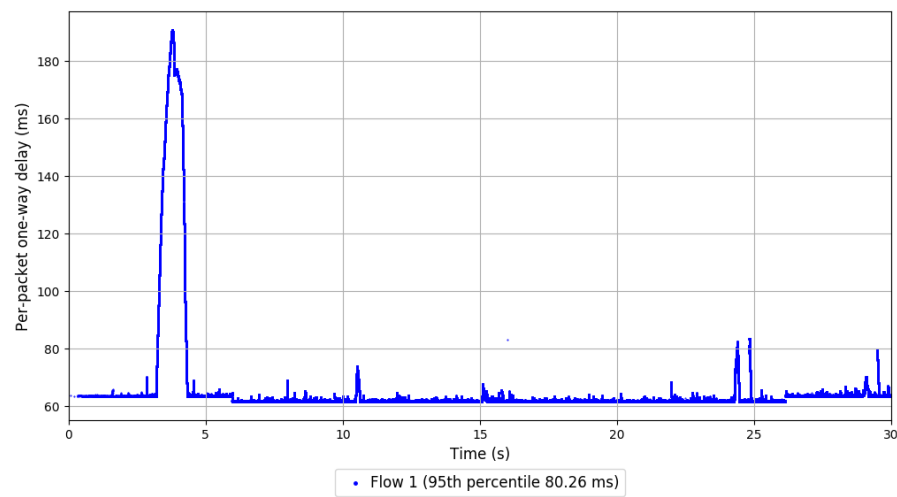
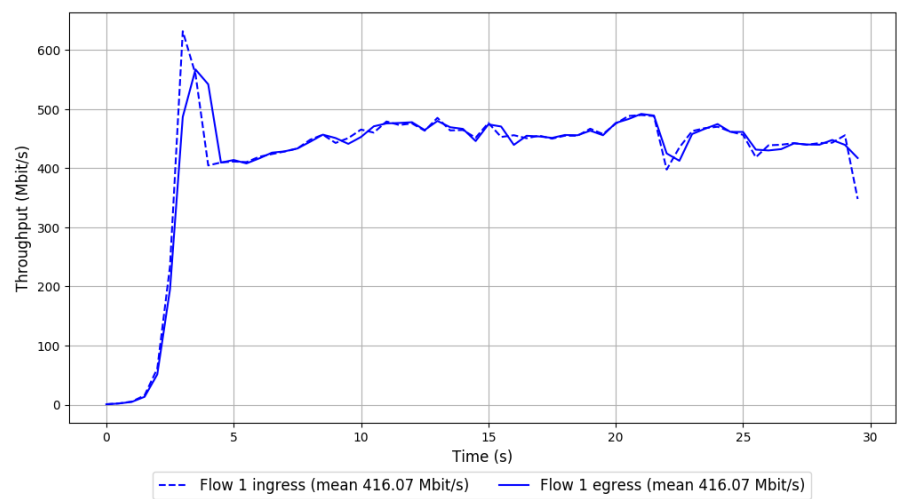
-- Flow 1:

Average throughput: 416.07 Mbit/s

95th percentile per-packet one-way delay: 80.264 ms

Loss rate: 0.01%

Run 4: Report of Vivace-loss — Data Link



Run 5: Statistics of Vivace-loss

Start at: 2018-02-16 18:17:44

End at: 2018-02-16 18:18:14

Below is generated by plot.py at 2018-02-16 22:37:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 429.03 Mbit/s

95th percentile per-packet one-way delay: 65.474 ms

Loss rate: 0.00%

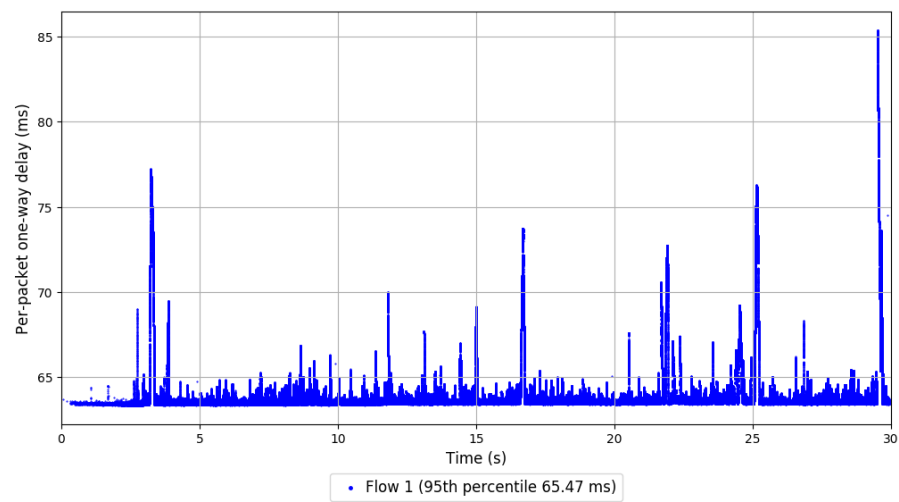
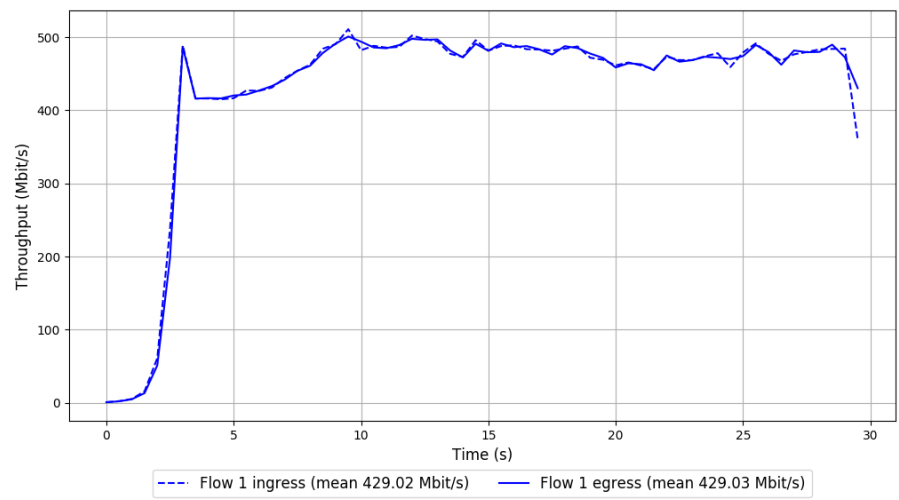
-- Flow 1:

Average throughput: 429.03 Mbit/s

95th percentile per-packet one-way delay: 65.474 ms

Loss rate: 0.00%

Run 5: Report of Vivace-loss — Data Link



Run 6: Statistics of Vivace-loss

Start at: 2018-02-16 18:32:44

End at: 2018-02-16 18:33:14

Below is generated by plot.py at 2018-02-16 22:38:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 419.56 Mbit/s

95th percentile per-packet one-way delay: 64.343 ms

Loss rate: 0.00%

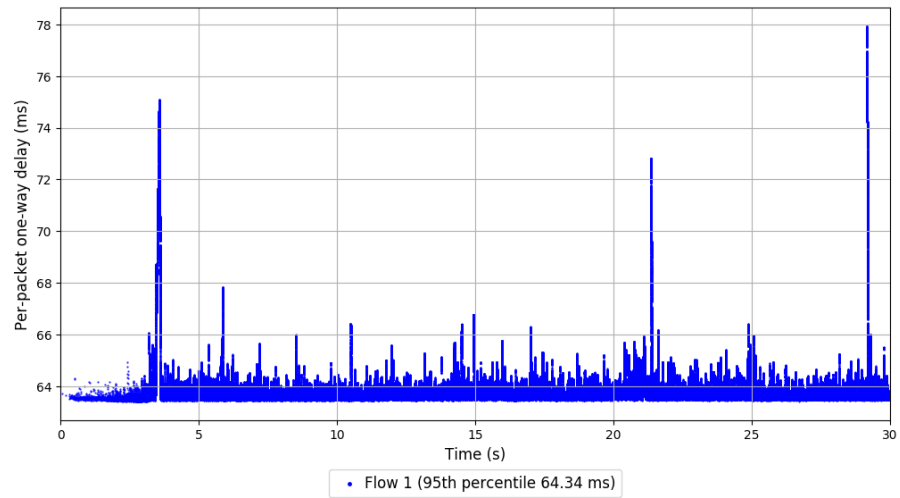
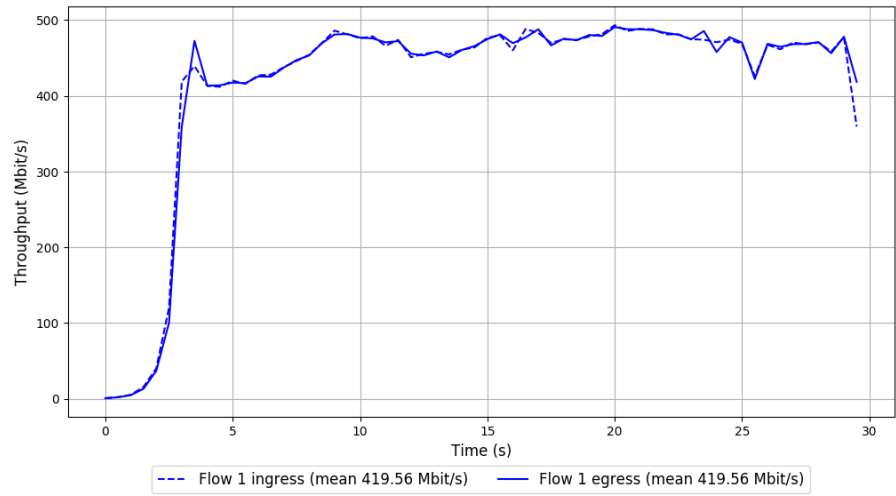
-- Flow 1:

Average throughput: 419.56 Mbit/s

95th percentile per-packet one-way delay: 64.343 ms

Loss rate: 0.00%

Run 6: Report of Vivace-loss — Data Link



Run 7: Statistics of Vivace-loss

Start at: 2018-02-16 18:47:28

End at: 2018-02-16 18:47:58

Below is generated by plot.py at 2018-02-16 22:38:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 416.61 Mbit/s

95th percentile per-packet one-way delay: 64.107 ms

Loss rate: 0.00%

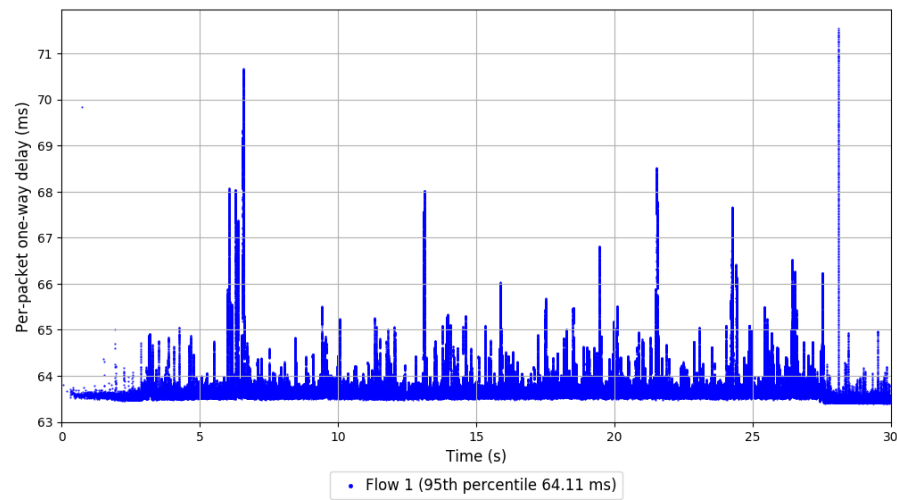
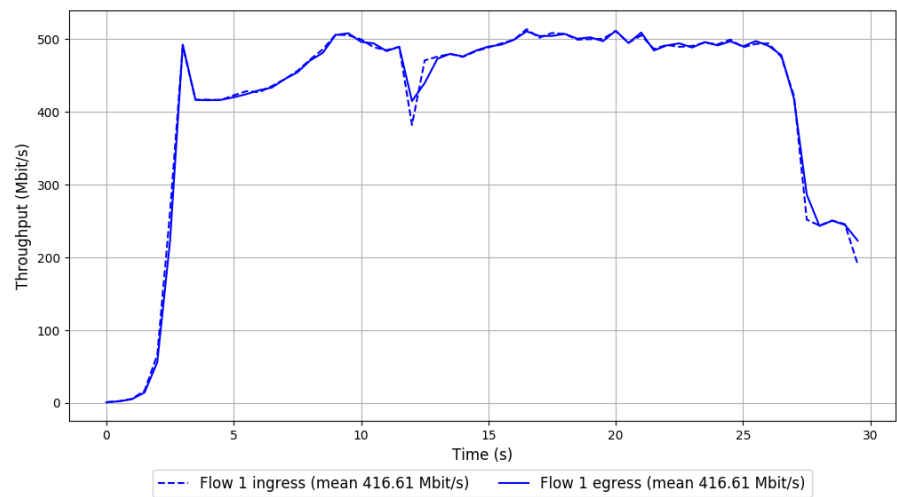
-- Flow 1:

Average throughput: 416.61 Mbit/s

95th percentile per-packet one-way delay: 64.107 ms

Loss rate: 0.00%

Run 7: Report of Vivace-loss — Data Link



Run 8: Statistics of Vivace-loss

Start at: 2018-02-16 19:02:21

End at: 2018-02-16 19:02:51

Below is generated by plot.py at 2018-02-16 22:39:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 431.39 Mbit/s

95th percentile per-packet one-way delay: 77.572 ms

Loss rate: 0.04%

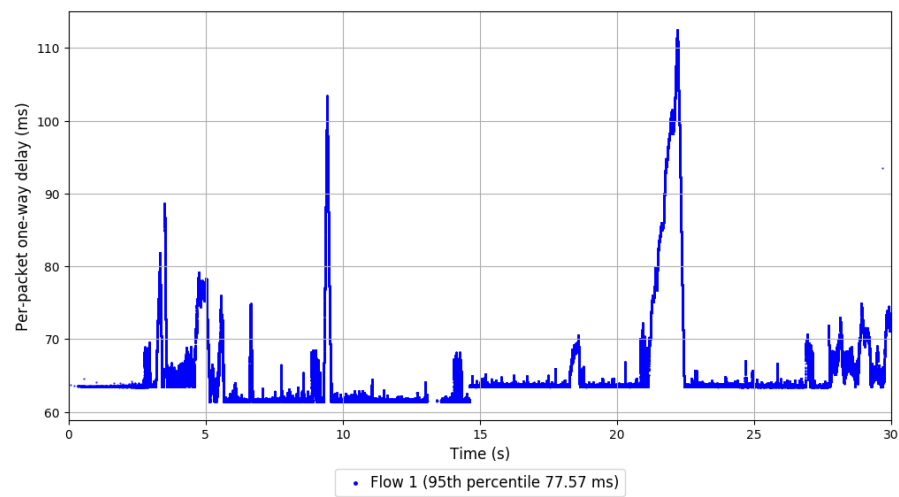
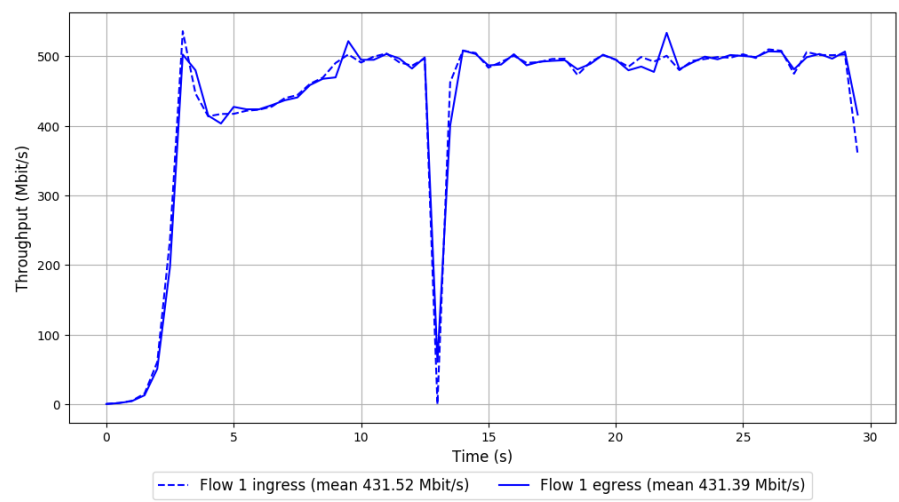
-- Flow 1:

Average throughput: 431.39 Mbit/s

95th percentile per-packet one-way delay: 77.572 ms

Loss rate: 0.04%

Run 8: Report of Vivace-loss — Data Link



Run 9: Statistics of Vivace-loss

Start at: 2018-02-16 19:17:02

End at: 2018-02-16 19:17:32

Below is generated by plot.py at 2018-02-16 22:41:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 433.87 Mbit/s

95th percentile per-packet one-way delay: 67.959 ms

Loss rate: 0.13%

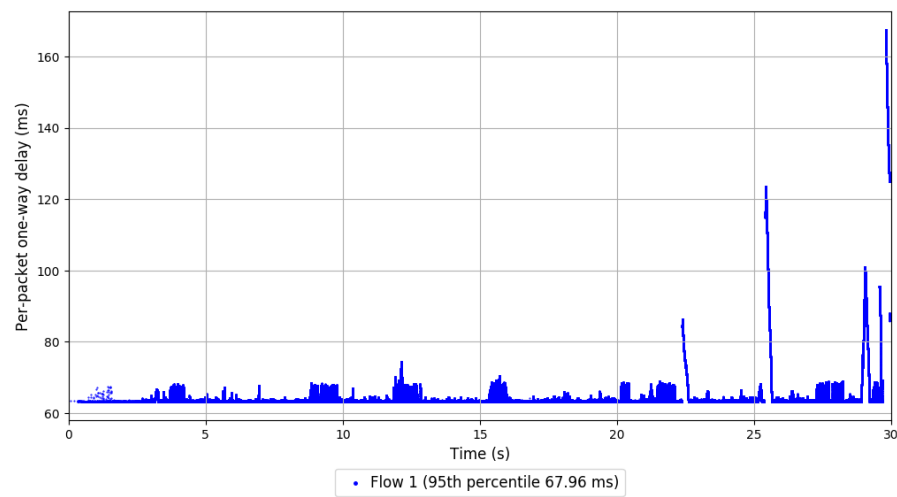
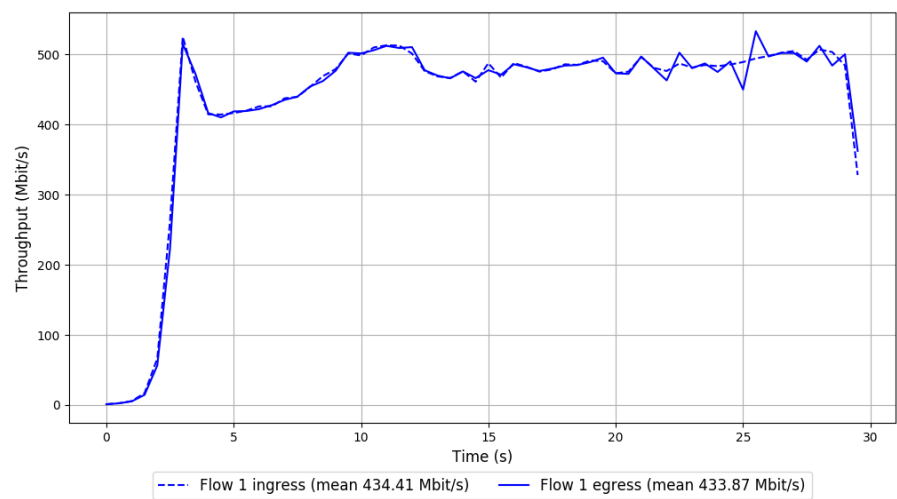
-- Flow 1:

Average throughput: 433.87 Mbit/s

95th percentile per-packet one-way delay: 67.959 ms

Loss rate: 0.13%

Run 9: Report of Vivace-loss — Data Link



Run 10: Statistics of Vivace-loss

Start at: 2018-02-16 19:31:56

End at: 2018-02-16 19:32:26

Below is generated by plot.py at 2018-02-16 22:41:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 336.94 Mbit/s

95th percentile per-packet one-way delay: 63.651 ms

Loss rate: 0.00%

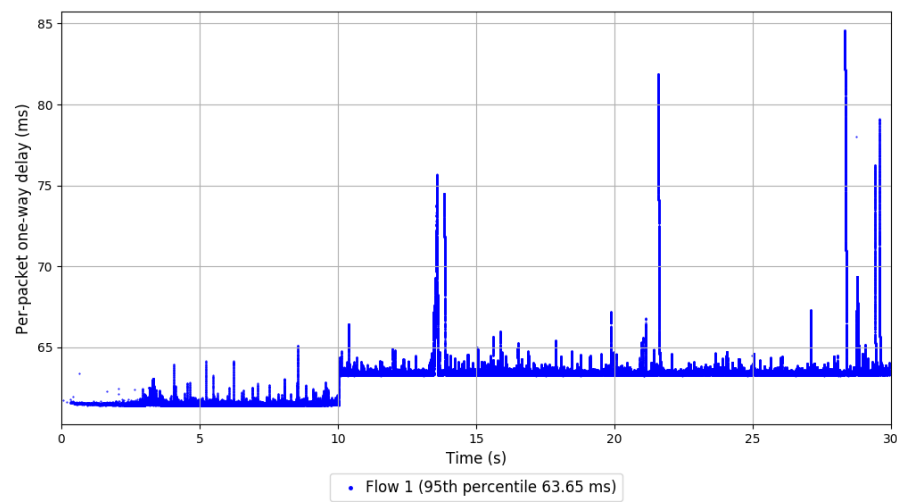
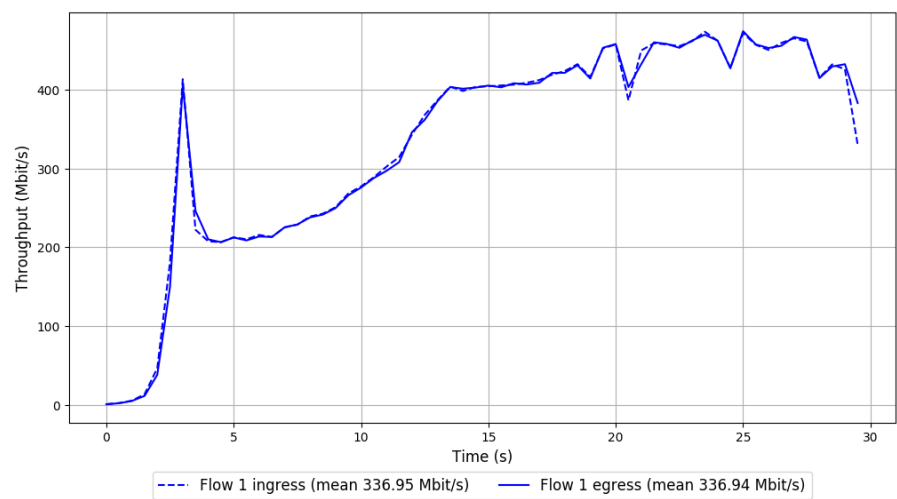
-- Flow 1:

Average throughput: 336.94 Mbit/s

95th percentile per-packet one-way delay: 63.651 ms

Loss rate: 0.00%

Run 10: Report of Vivace-loss — Data Link

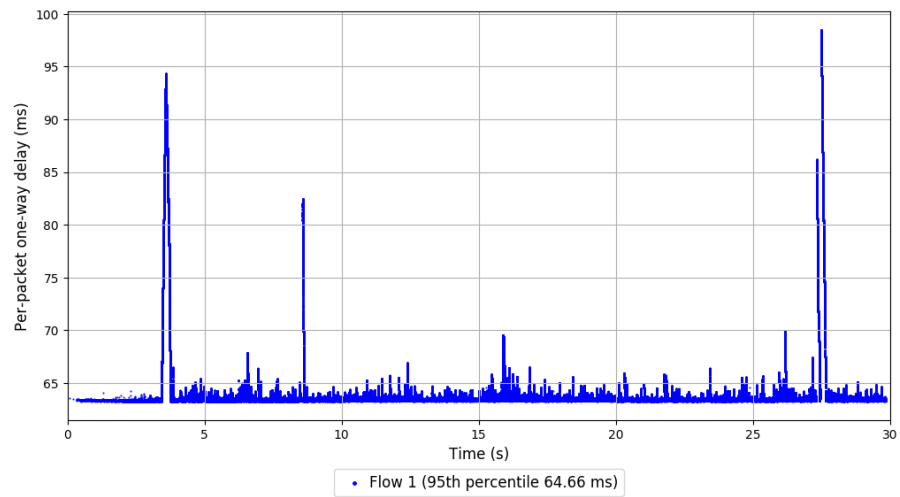
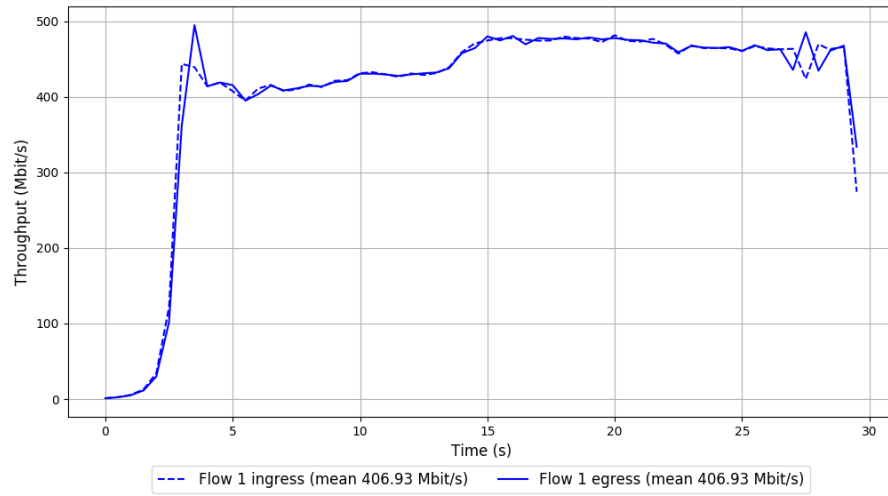


```
Run 1: Statistics of Vivace-LTE

Start at: 2018-02-16 17:08:15
End at: 2018-02-16 17:08:45

# Below is generated by plot.py at 2018-02-16 22:41:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 406.93 Mbit/s
95th percentile per-packet one-way delay: 64.656 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 406.93 Mbit/s
95th percentile per-packet one-way delay: 64.656 ms
Loss rate: 0.00%
```

Run 1: Report of Vivace-LTE — Data Link



Run 2: Statistics of Vivace-LTE

Start at: 2018-02-16 17:22:57

End at: 2018-02-16 17:23:27

Below is generated by plot.py at 2018-02-16 22:42:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 406.63 Mbit/s

95th percentile per-packet one-way delay: 63.820 ms

Loss rate: 0.00%

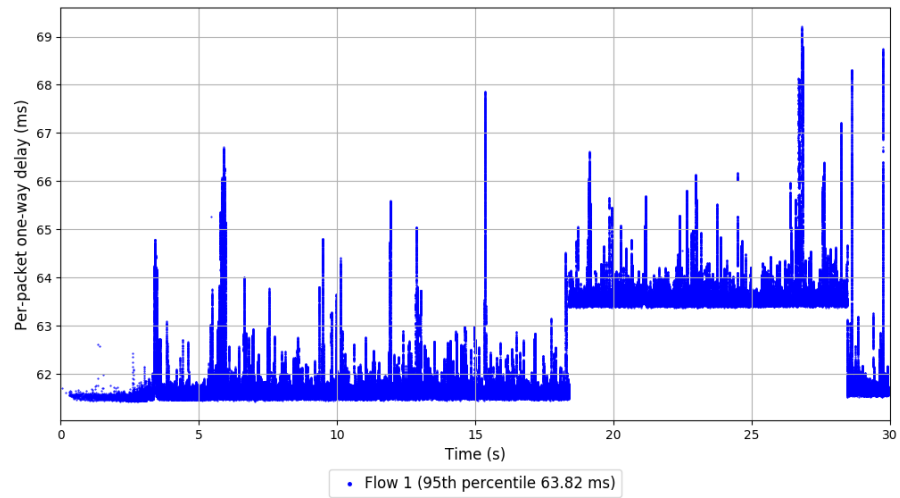
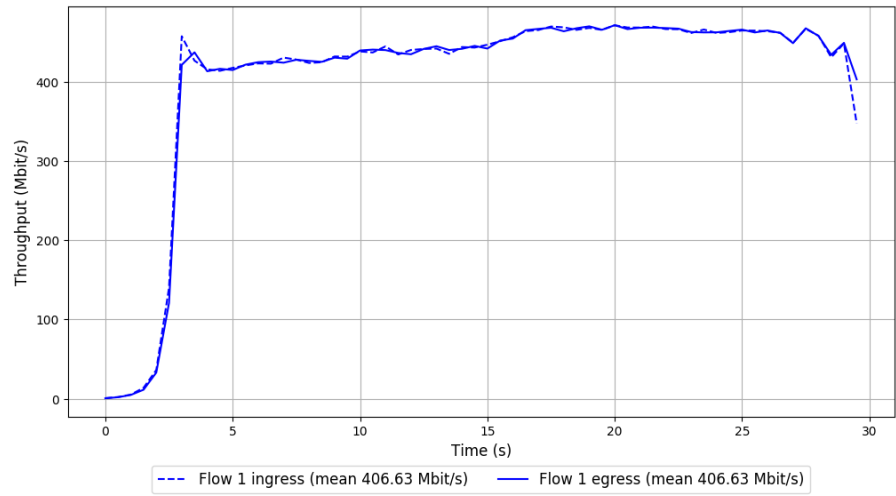
-- Flow 1:

Average throughput: 406.63 Mbit/s

95th percentile per-packet one-way delay: 63.820 ms

Loss rate: 0.00%

Run 2: Report of Vivace-LTE — Data Link



Run 3: Statistics of Vivace-LTE

Start at: 2018-02-16 17:37:57

End at: 2018-02-16 17:38:27

Below is generated by plot.py at 2018-02-16 22:46:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 425.02 Mbit/s

95th percentile per-packet one-way delay: 77.208 ms

Loss rate: 0.05%

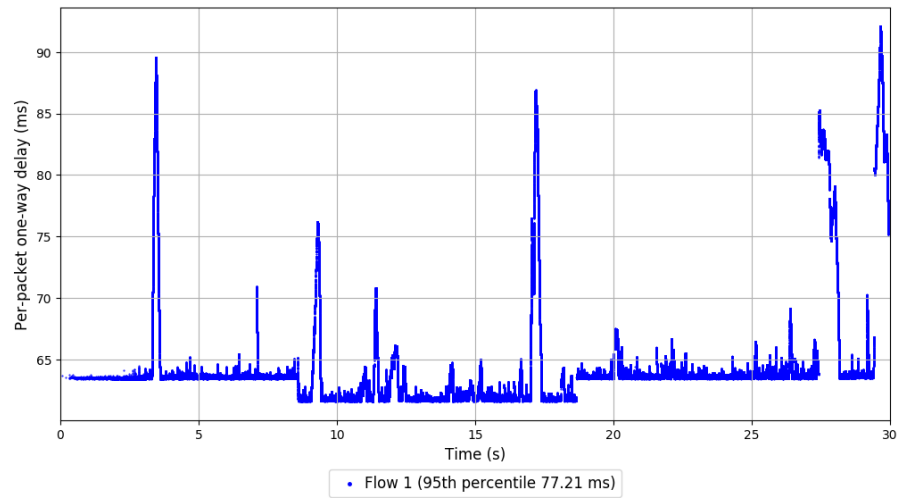
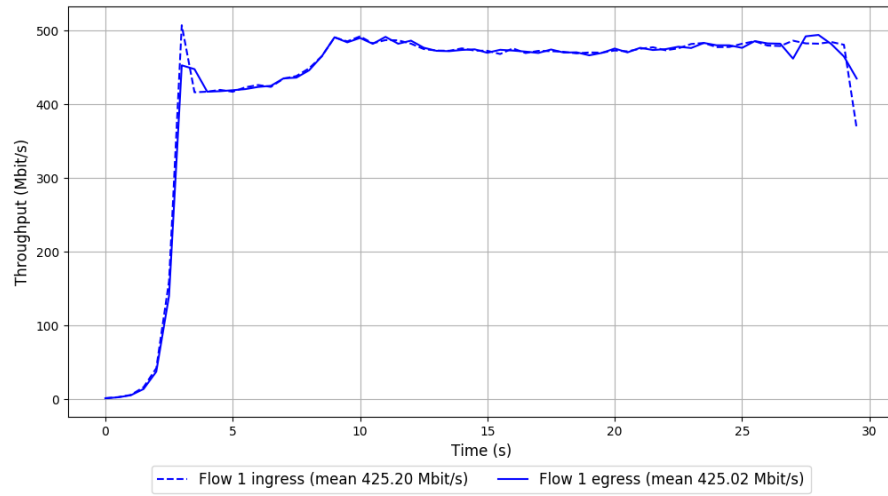
-- Flow 1:

Average throughput: 425.02 Mbit/s

95th percentile per-packet one-way delay: 77.208 ms

Loss rate: 0.05%

Run 3: Report of Vivace-LTE — Data Link



Run 4: Statistics of Vivace-LTE

Start at: 2018-02-16 17:52:58

End at: 2018-02-16 17:53:28

Below is generated by plot.py at 2018-02-16 22:46:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 405.81 Mbit/s

95th percentile per-packet one-way delay: 65.560 ms

Loss rate: 0.00%

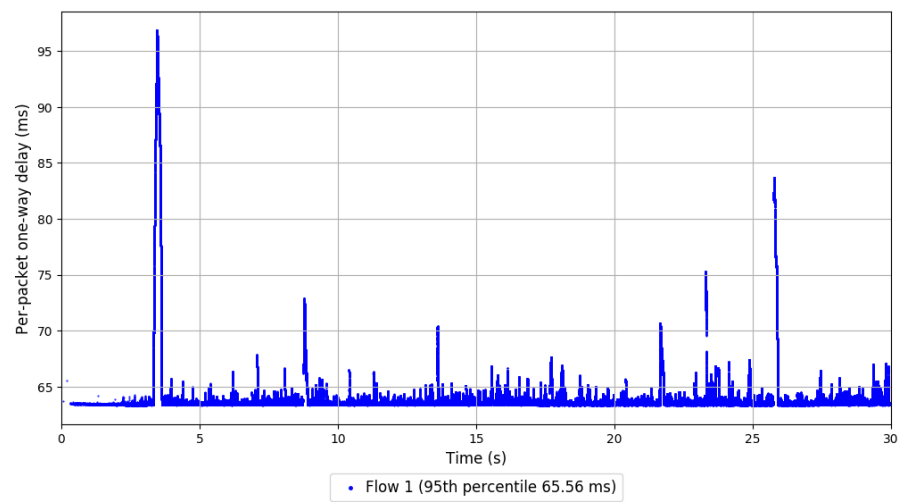
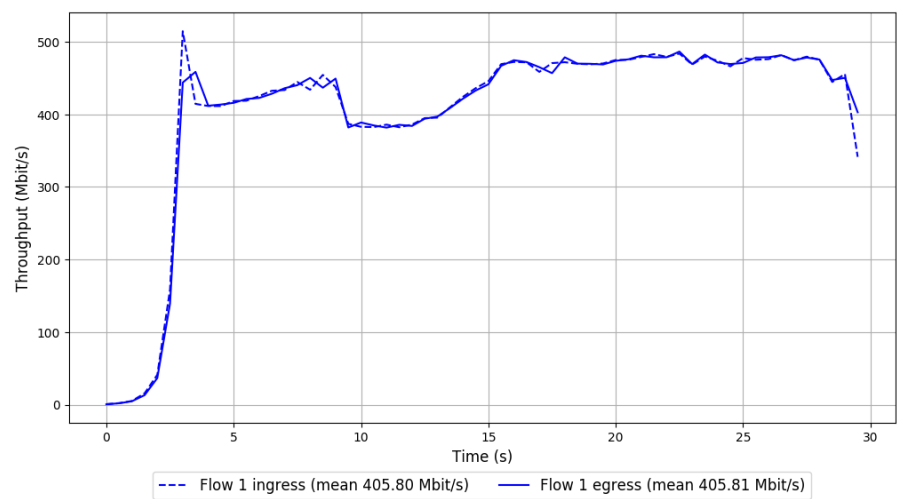
-- Flow 1:

Average throughput: 405.81 Mbit/s

95th percentile per-packet one-way delay: 65.560 ms

Loss rate: 0.00%

Run 4: Report of Vivace-LTE — Data Link



Run 5: Statistics of Vivace-LTE

Start at: 2018-02-16 18:07:52

End at: 2018-02-16 18:08:22

Below is generated by plot.py at 2018-02-16 22:46:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 338.09 Mbit/s

95th percentile per-packet one-way delay: 68.810 ms

Loss rate: 0.00%

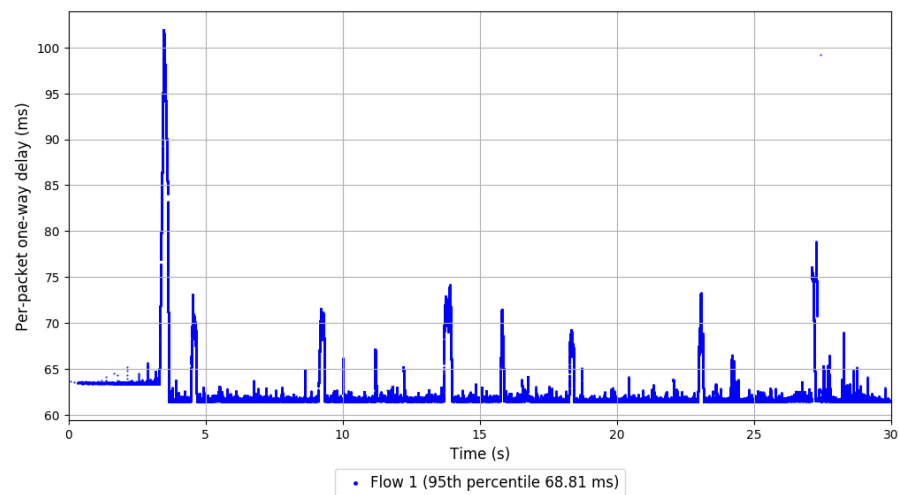
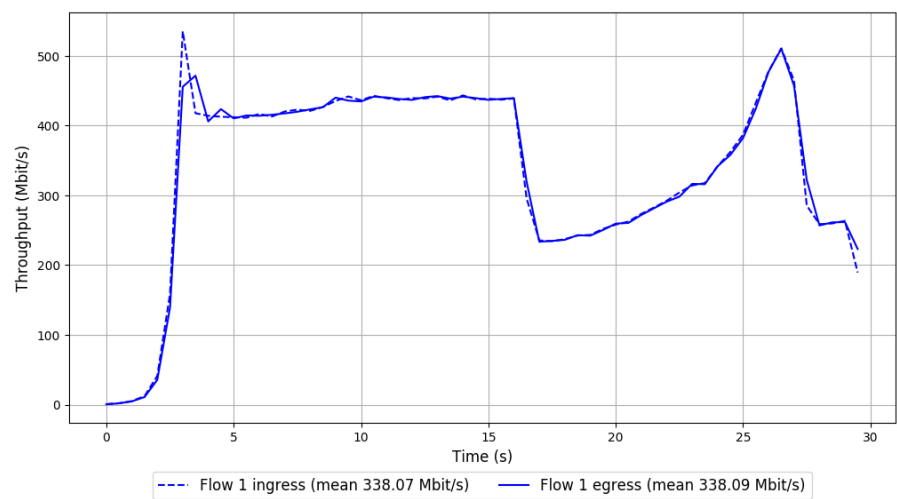
-- Flow 1:

Average throughput: 338.09 Mbit/s

95th percentile per-packet one-way delay: 68.810 ms

Loss rate: 0.00%

Run 5: Report of Vivace-LTE — Data Link



Run 6: Statistics of Vivace-LTE

Start at: 2018-02-16 18:22:36

End at: 2018-02-16 18:23:06

Below is generated by plot.py at 2018-02-16 22:47:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 437.69 Mbit/s

95th percentile per-packet one-way delay: 64.095 ms

Loss rate: 0.00%

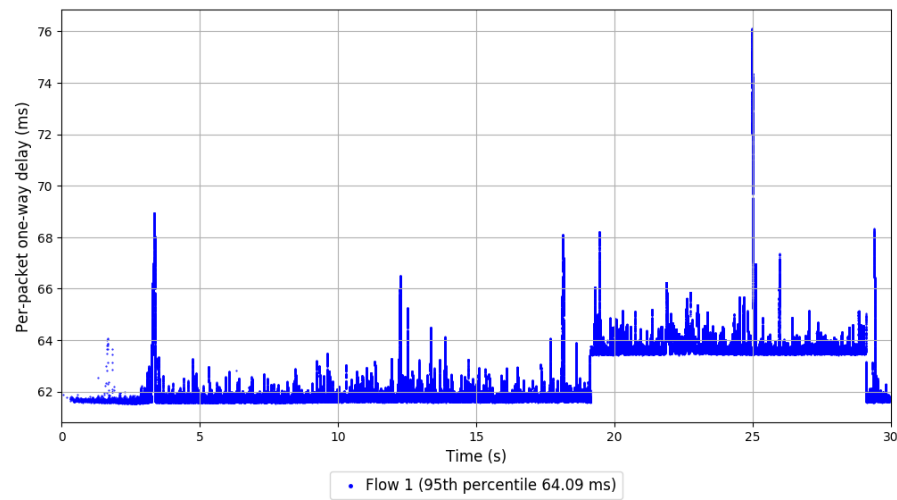
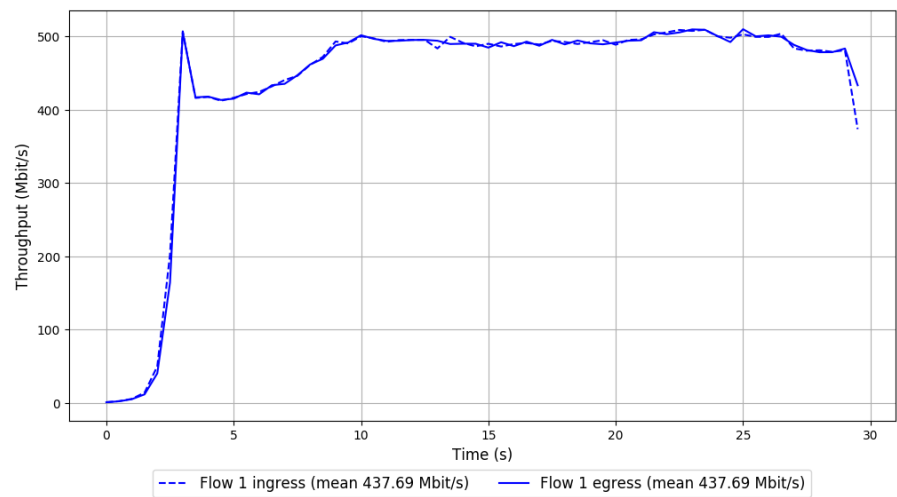
-- Flow 1:

Average throughput: 437.69 Mbit/s

95th percentile per-packet one-way delay: 64.095 ms

Loss rate: 0.00%

Run 6: Report of Vivace-LTE — Data Link



Run 7: Statistics of Vivace-LTE

Start at: 2018-02-16 18:37:36

End at: 2018-02-16 18:38:06

Below is generated by plot.py at 2018-02-16 22:47:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 441.00 Mbit/s

95th percentile per-packet one-way delay: 66.031 ms

Loss rate: 0.00%

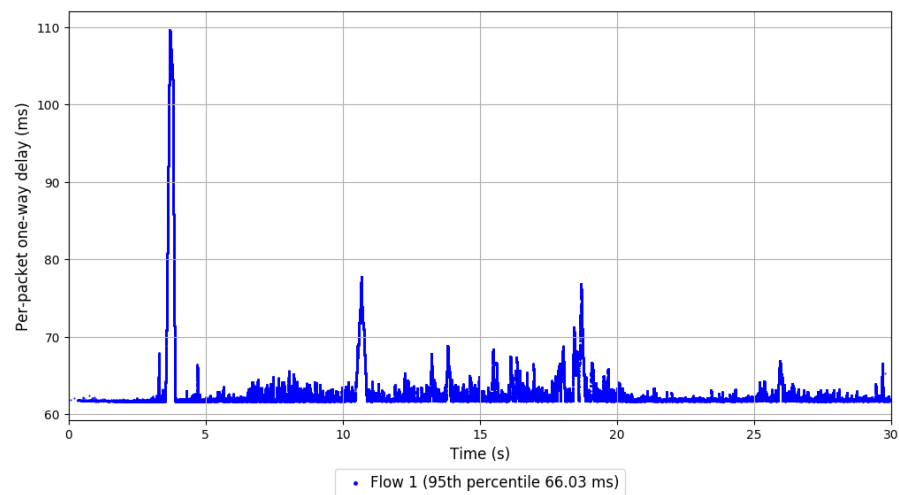
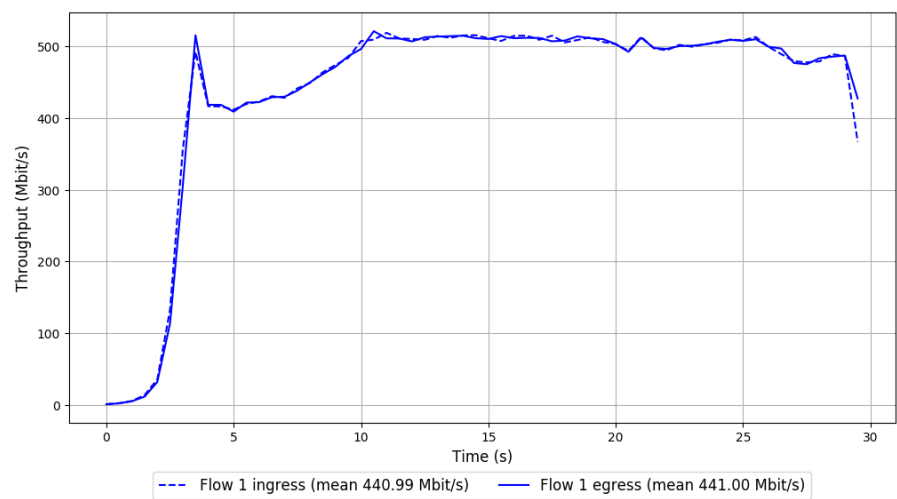
-- Flow 1:

Average throughput: 441.00 Mbit/s

95th percentile per-packet one-way delay: 66.031 ms

Loss rate: 0.00%

Run 7: Report of Vivace-LTE — Data Link



Run 8: Statistics of Vivace-LTE

Start at: 2018-02-16 18:52:17

End at: 2018-02-16 18:52:48

Below is generated by plot.py at 2018-02-16 22:47:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 435.76 Mbit/s

95th percentile per-packet one-way delay: 64.078 ms

Loss rate: 0.00%

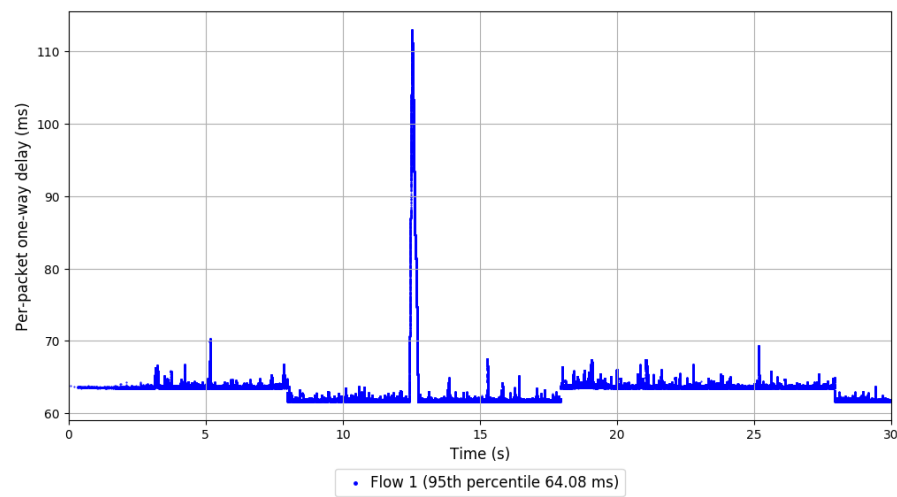
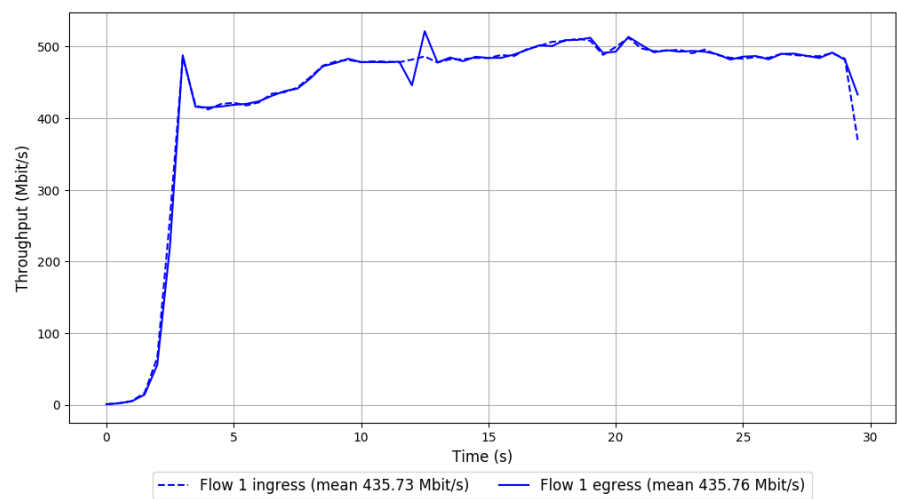
-- Flow 1:

Average throughput: 435.76 Mbit/s

95th percentile per-packet one-way delay: 64.078 ms

Loss rate: 0.00%

Run 8: Report of Vivace-LTE — Data Link



Run 9: Statistics of Vivace-LTE

Start at: 2018-02-16 19:06:55

End at: 2018-02-16 19:07:25

Below is generated by plot.py at 2018-02-16 22:47:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 425.24 Mbit/s

95th percentile per-packet one-way delay: 65.076 ms

Loss rate: 0.00%

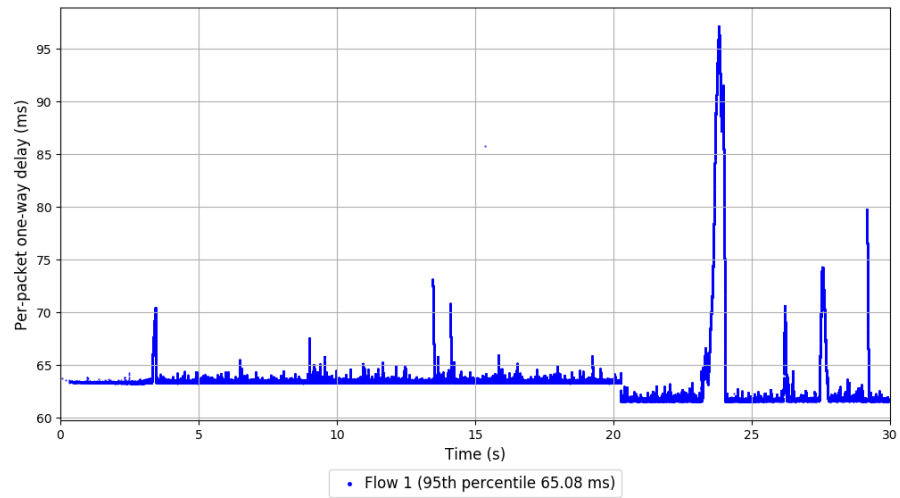
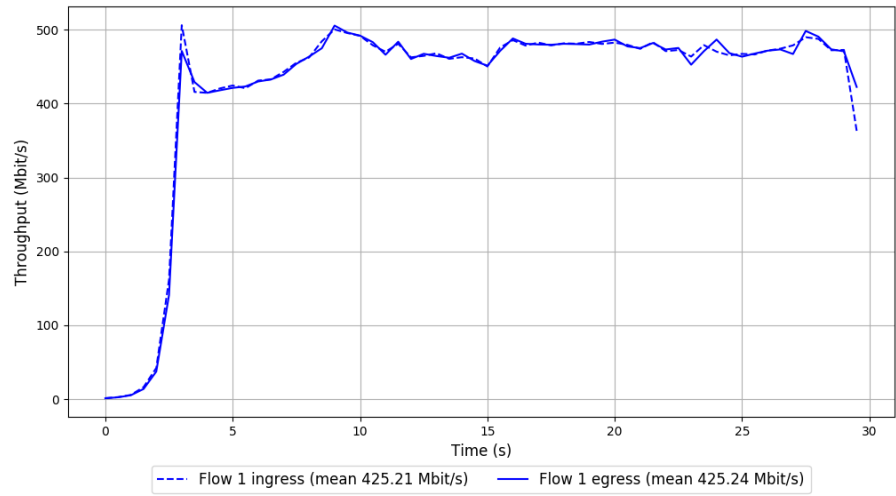
-- Flow 1:

Average throughput: 425.24 Mbit/s

95th percentile per-packet one-way delay: 65.076 ms

Loss rate: 0.00%

Run 9: Report of Vivace-LTE — Data Link



```
Run 10: Statistics of Vivace-LTE

Start at: 2018-02-16 19:21:54
End at: 2018-02-16 19:22:24

# Below is generated by plot.py at 2018-02-16 22:47:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 445.79 Mbit/s
95th percentile per-packet one-way delay: 63.899 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 445.79 Mbit/s
95th percentile per-packet one-way delay: 63.899 ms
Loss rate: 0.01%
```

Run 10: Report of Vivace-LTE — Data Link

