

Pantheon Report

Generated at 2018-01-16 14:21:55 (UTC).

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

Repeated the test of 17 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

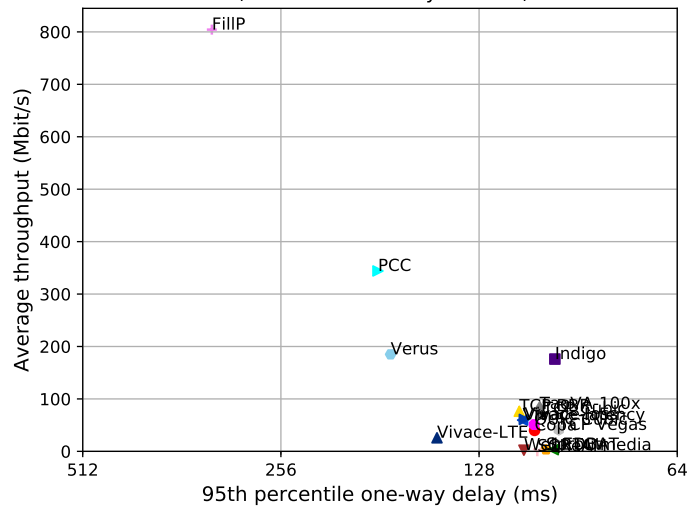
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

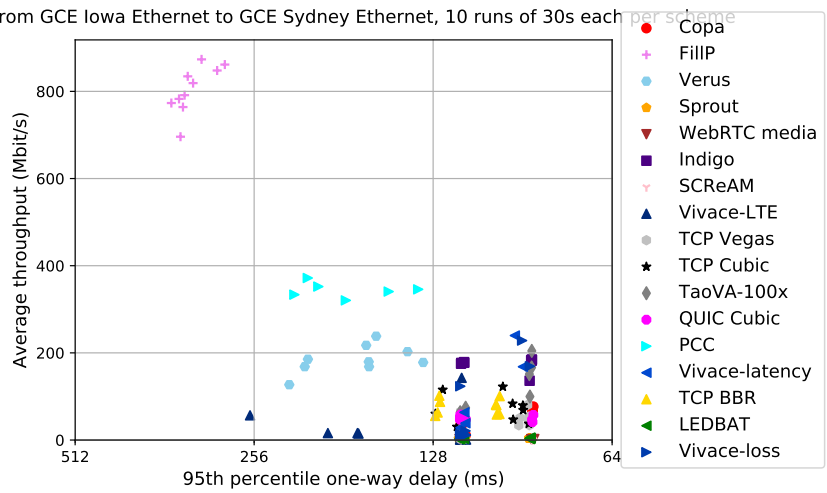
Git summary:

```
branch: master @ af8abdfba95588b0c5f2aeca9e856a1656b0c598
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/llp @ ec9585325218d5048c4d4152fa42240af54c6e67
third_party/genericCC @ 80b516c448f795fd6e9675f7177b69c622f07da8
third_party/indigo @ b19f3730105f9aa95452552af924e3719b03cc55
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 @ f1a14bffe749737437f61b1eaaeb30b267cde681
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 @ 423cbca3e8ea1d599e7b5cf725835e8a2b6bfac6
third_party/webRTC @ a488197ddd041ace68a42849b2540ad834825f42
```

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



test from GCE Iowa Ethernet to GCE Sydney Ethernet, 10 runs of 30s each per scheme



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	9	76.54	111.20	0.09
TCP Cubic	9	71.59	102.41	0.14
LEDBAT	10	3.18	98.75	0.11
PCC	6	344.07	182.27	0.32
QUIC Cubic	9	51.07	105.58	0.05
SCReAM	8	0.21	104.42	0.05
WebRTC media	10	2.18	109.42	0.10
Sprout	10	3.24	101.27	0.21
TaoVA-100x	10	80.99	103.55	0.03
TCP Vegas	10	40.93	96.86	0.07
Verus	9	185.01	174.43	0.69
Copa	9	40.00	105.41	0.02
FillP	10	804.35	325.94	6.25
Indigo	10	176.03	98.19	0.08
Vivace-latency	10	59.62	109.94	0.03
Vivace-loss	10	60.96	109.25	0.03
Vivace-LTE	10	25.91	148.30	0.19

Run 1: Statistics of TCP BBR

Start at: 2018-01-16 09:56:33

End at: 2018-01-16 09:57:03

Below is generated by plot.py at 2018-01-16 13:34:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.71 Mbit/s

95th percentile per-packet one-way delay: 124.625 ms

Loss rate: 0.00%

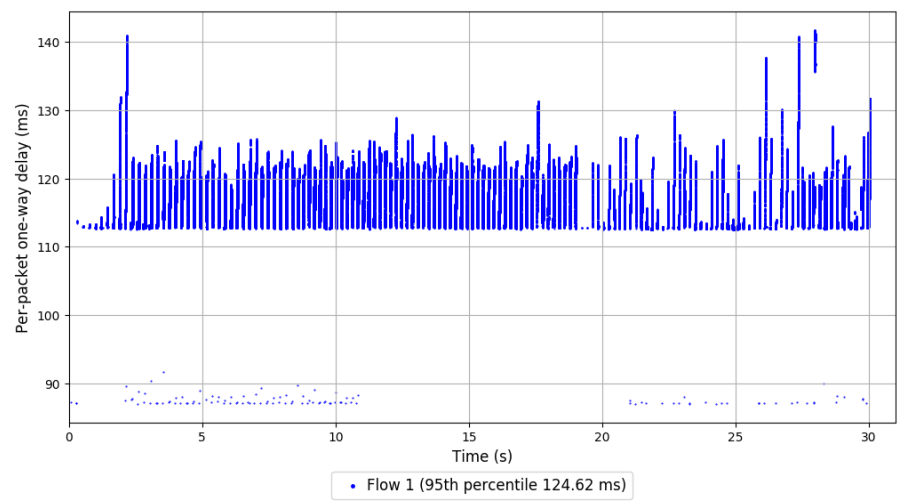
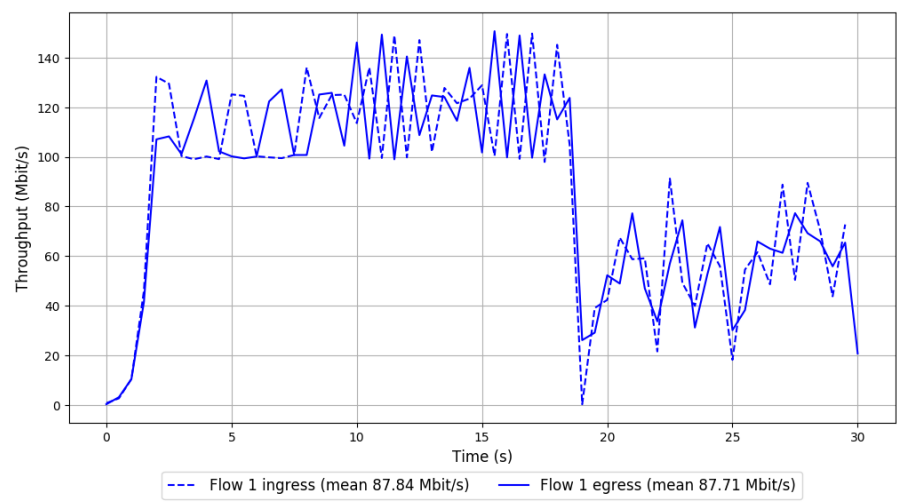
-- Flow 1:

Average throughput: 87.71 Mbit/s

95th percentile per-packet one-way delay: 124.625 ms

Loss rate: 0.00%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

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

End at: 2018-01-16 10:10:31

Below is generated by plot.py at 2018-01-16 13:34:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 55.41 Mbit/s

95th percentile per-packet one-way delay: 126.960 ms

Loss rate: 0.01%

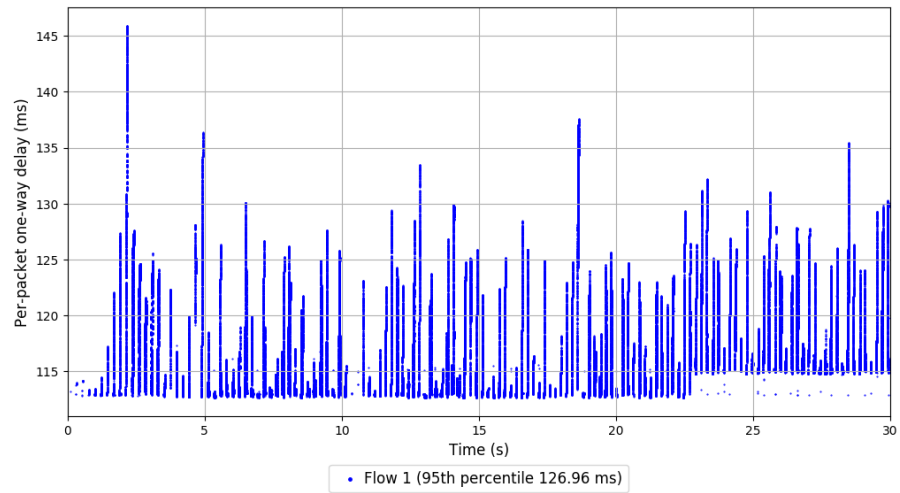
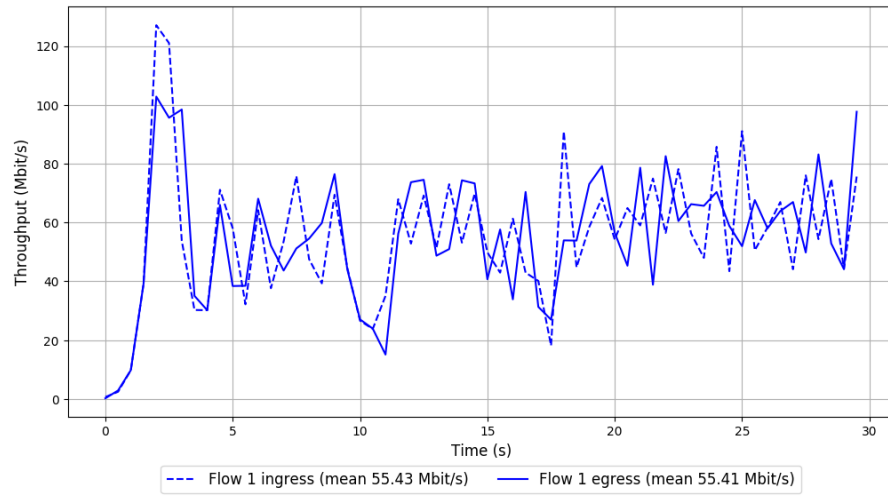
-- Flow 1:

Average throughput: 55.41 Mbit/s

95th percentile per-packet one-way delay: 126.960 ms

Loss rate: 0.01%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-01-16 10:24:16

End at: 2018-01-16 10:24:46

Below is generated by plot.py at 2018-01-16 13:34:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 58.63 Mbit/s

95th percentile per-packet one-way delay: 100.028 ms

Loss rate: 0.36%

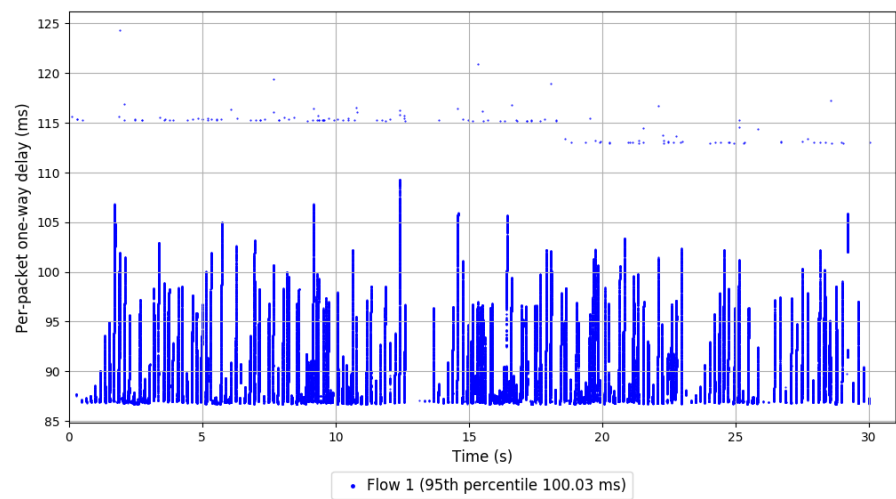
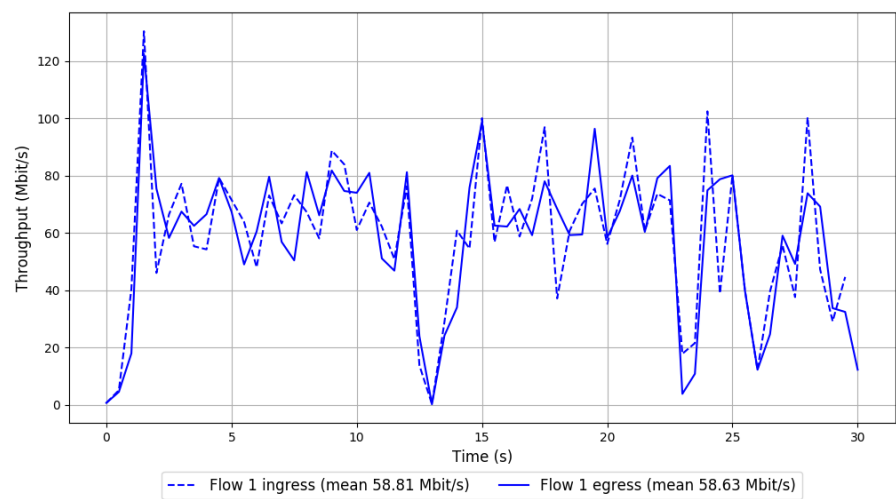
-- Flow 1:

Average throughput: 58.63 Mbit/s

95th percentile per-packet one-way delay: 100.028 ms

Loss rate: 0.36%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-01-16 10:38:13

End at: 2018-01-16 10:38:43

Below is generated by plot.py at 2018-01-16 13:34:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 59.80 Mbit/s

95th percentile per-packet one-way delay: 99.006 ms

Loss rate: 0.00%

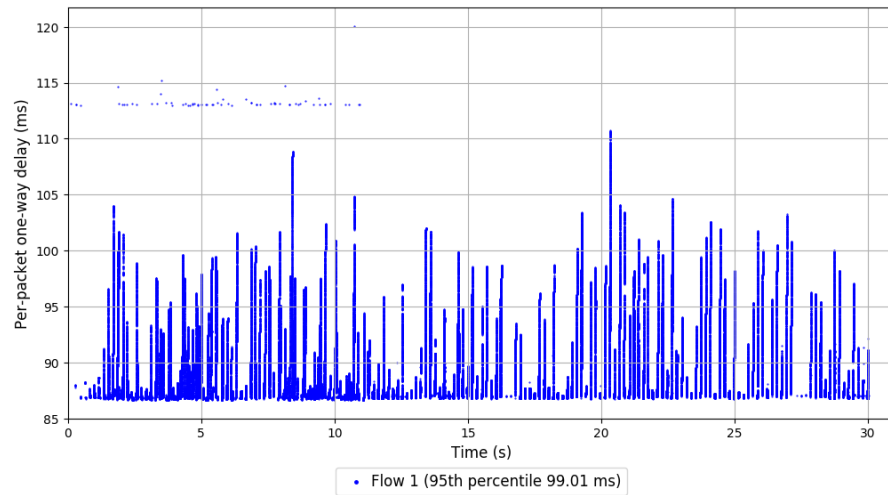
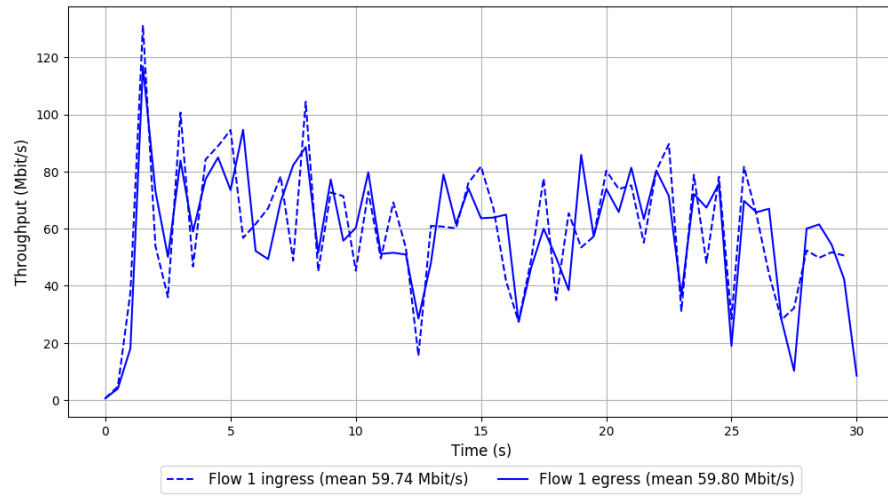
-- Flow 1:

Average throughput: 59.80 Mbit/s

95th percentile per-packet one-way delay: 99.006 ms

Loss rate: 0.00%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-01-16 10:52:26

End at: 2018-01-16 10:52:56

Below is generated by plot.py at 2018-01-16 13:34:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 81.30 Mbit/s

95th percentile per-packet one-way delay: 100.362 ms

Loss rate: 0.07%

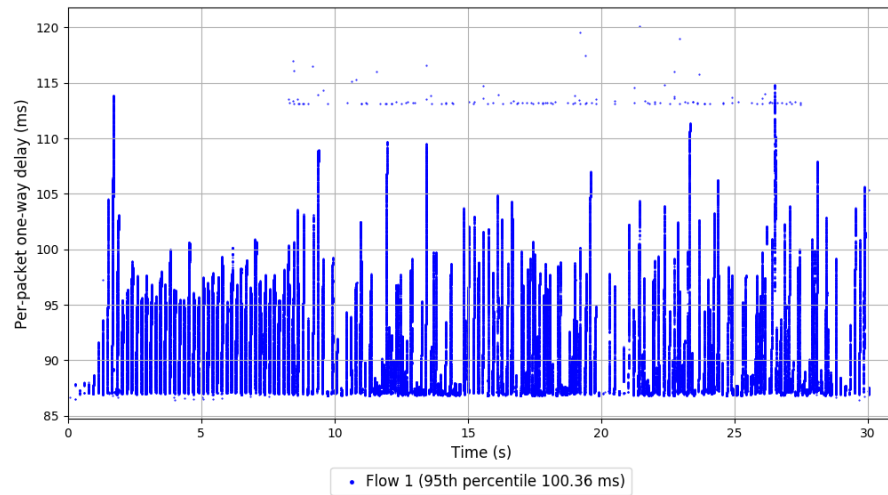
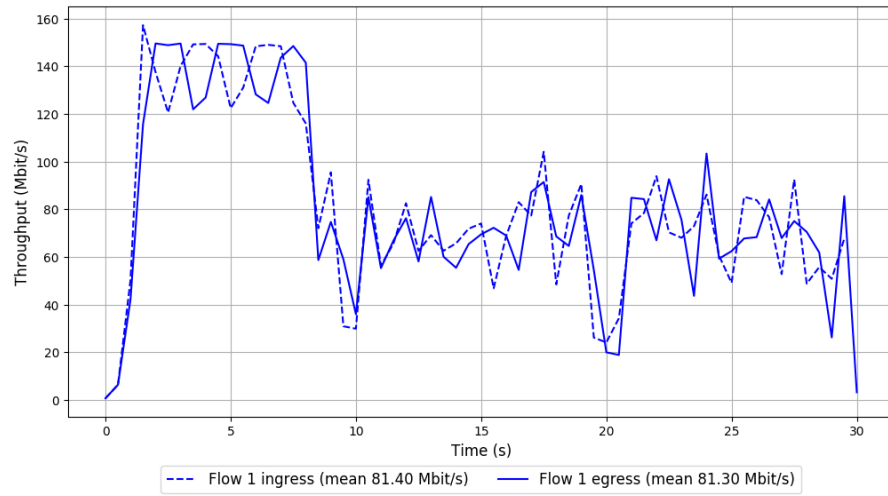
-- Flow 1:

Average throughput: 81.30 Mbit/s

95th percentile per-packet one-way delay: 100.362 ms

Loss rate: 0.07%

Run 5: Report of TCP BBR — Data Link

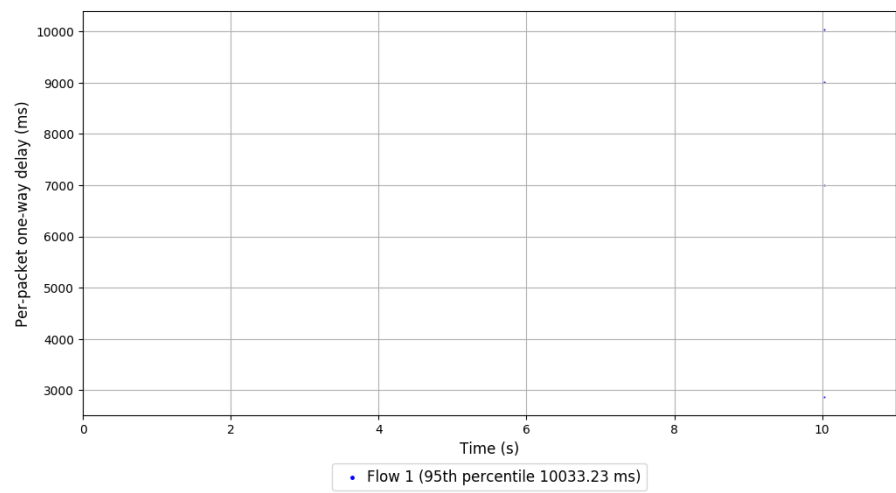
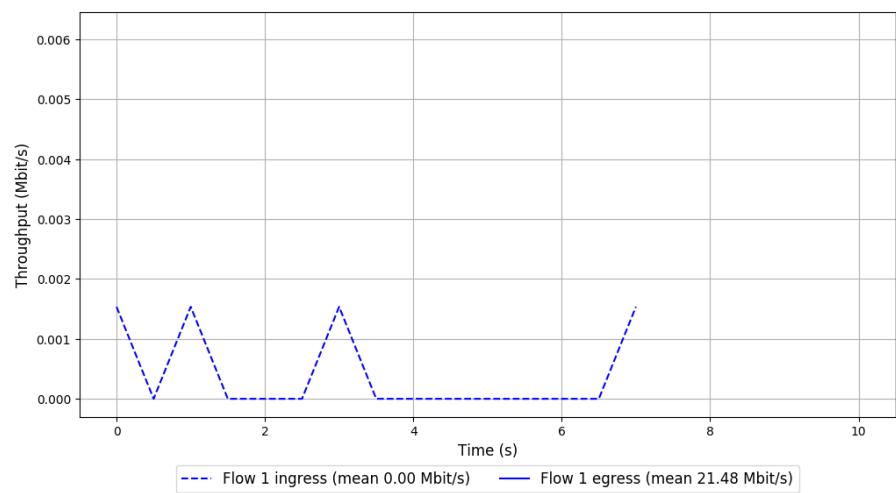


Run 6: Statistics of TCP BBR

Start at: 2018-01-16 11:06:28

End at: 2018-01-16 11:06:58

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-01-16 11:20:07

End at: 2018-01-16 11:20:37

Below is generated by plot.py at 2018-01-16 13:35:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 100.80 Mbit/s

95th percentile per-packet one-way delay: 98.929 ms

Loss rate: 0.00%

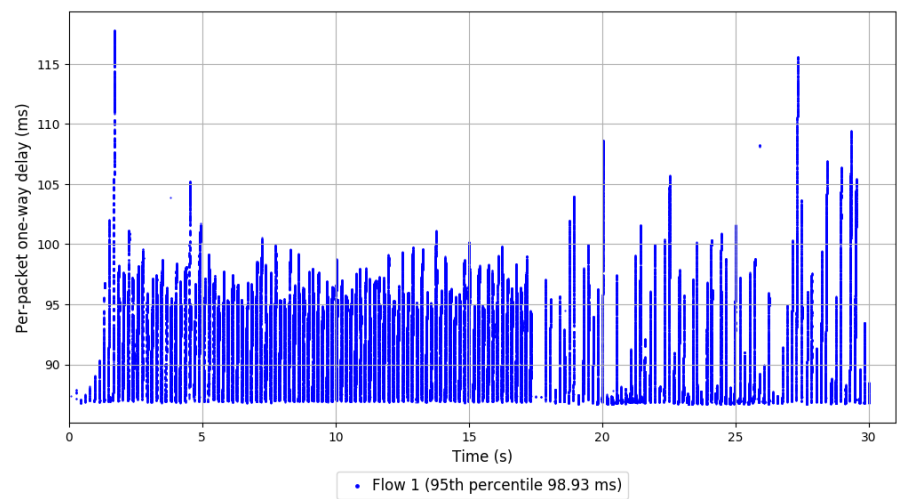
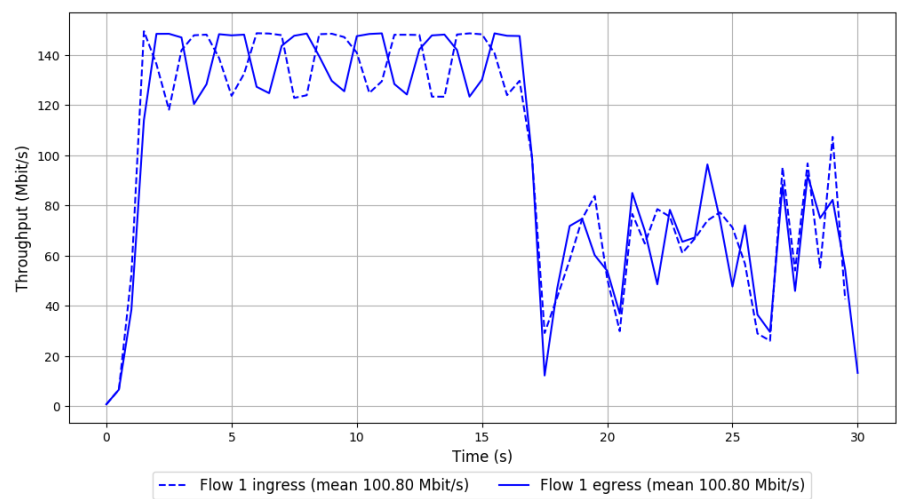
-- Flow 1:

Average throughput: 100.80 Mbit/s

95th percentile per-packet one-way delay: 98.929 ms

Loss rate: 0.00%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-01-16 11:34:11

End at: 2018-01-16 11:34:41

Below is generated by plot.py at 2018-01-16 13:35:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 80.18 Mbit/s

95th percentile per-packet one-way delay: 100.198 ms

Loss rate: 0.00%

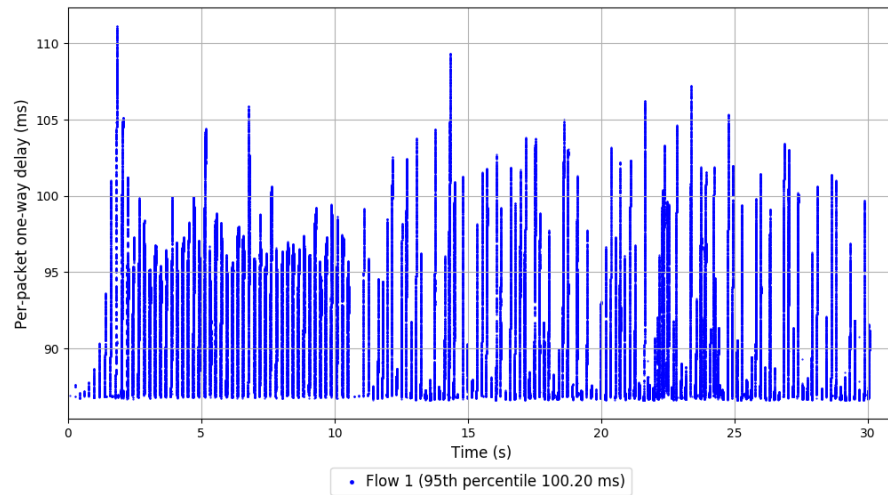
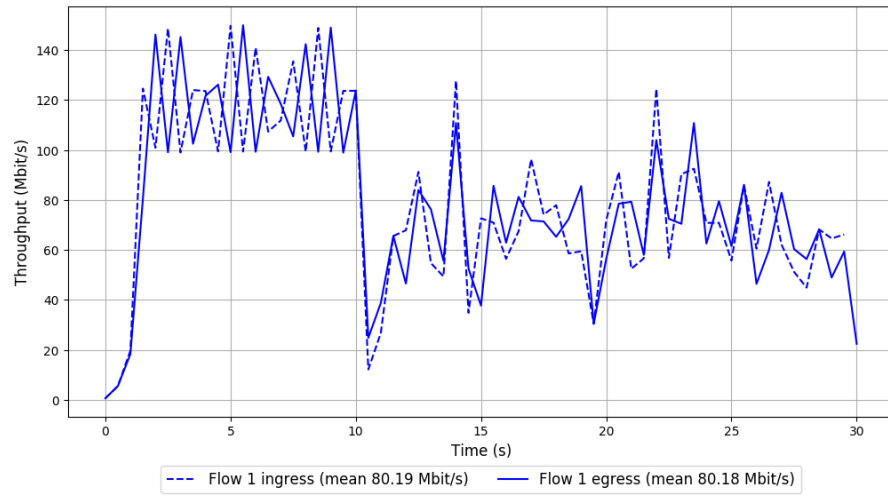
-- Flow 1:

Average throughput: 80.18 Mbit/s

95th percentile per-packet one-way delay: 100.198 ms

Loss rate: 0.00%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-01-16 11:48:50

End at: 2018-01-16 11:49:20

Below is generated by plot.py at 2018-01-16 13:35:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 101.74 Mbit/s

95th percentile per-packet one-way delay: 124.954 ms

Loss rate: 0.13%

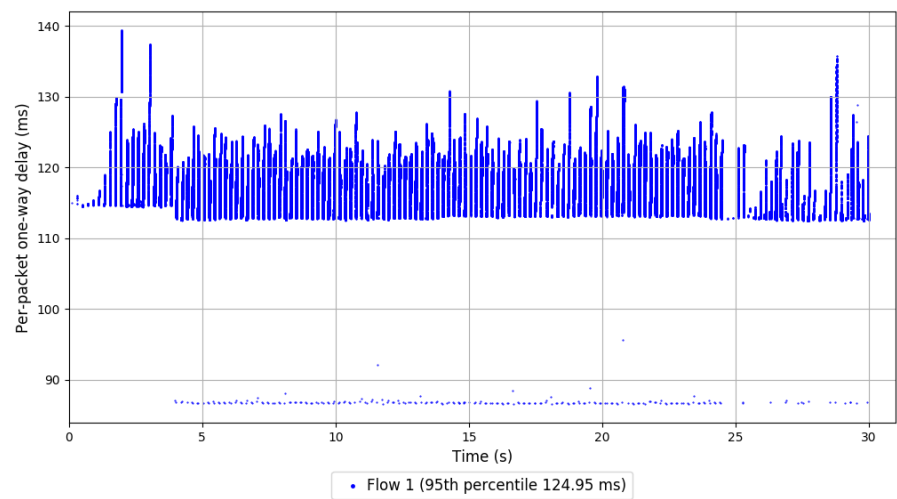
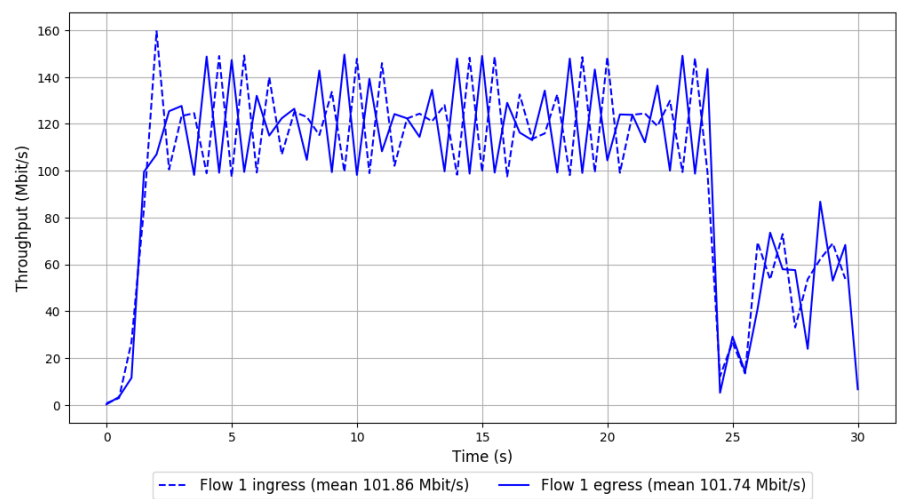
-- Flow 1:

Average throughput: 101.74 Mbit/s

95th percentile per-packet one-way delay: 124.954 ms

Loss rate: 0.13%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-01-16 12:02:35

End at: 2018-01-16 12:03:05

Below is generated by plot.py at 2018-01-16 13:35:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.26 Mbit/s

95th percentile per-packet one-way delay: 125.783 ms

Loss rate: 0.24%

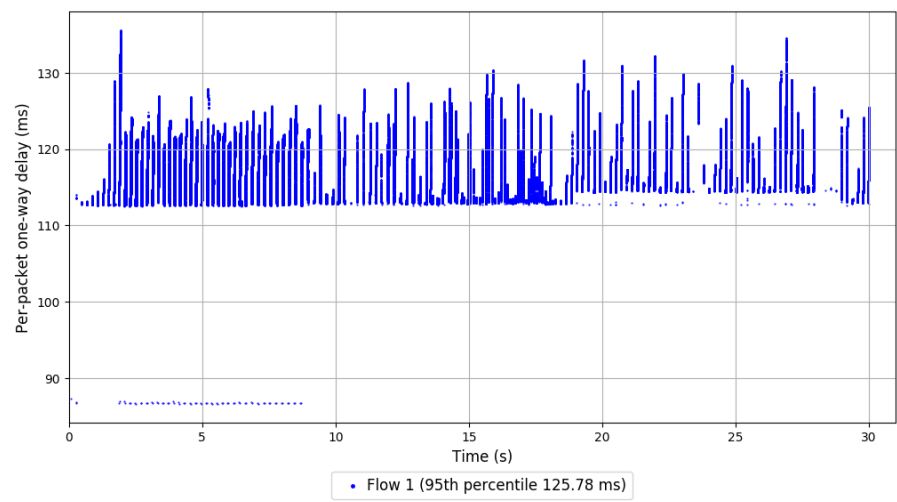
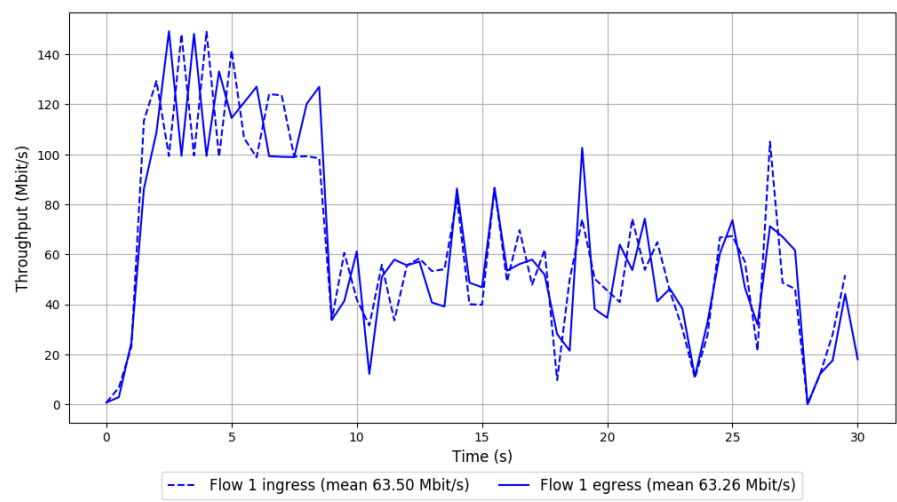
-- Flow 1:

Average throughput: 63.26 Mbit/s

95th percentile per-packet one-way delay: 125.783 ms

Loss rate: 0.24%

Run 10: Report of TCP BBR — Data Link

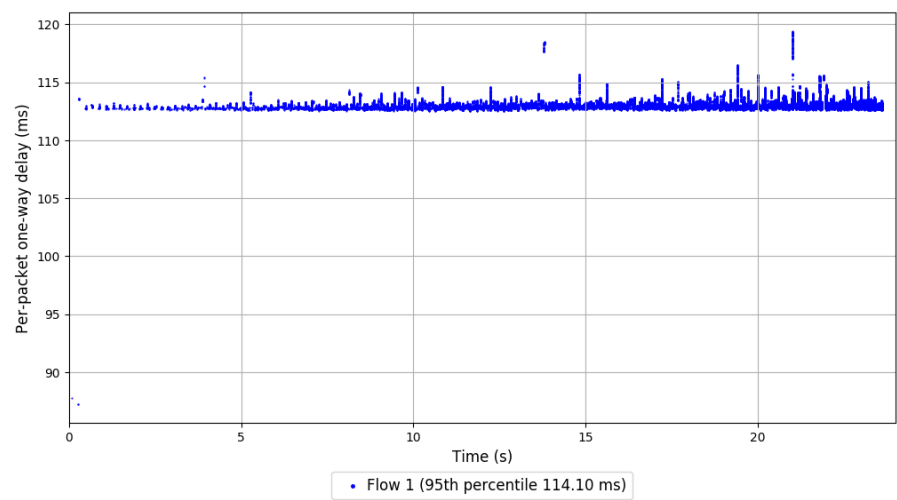
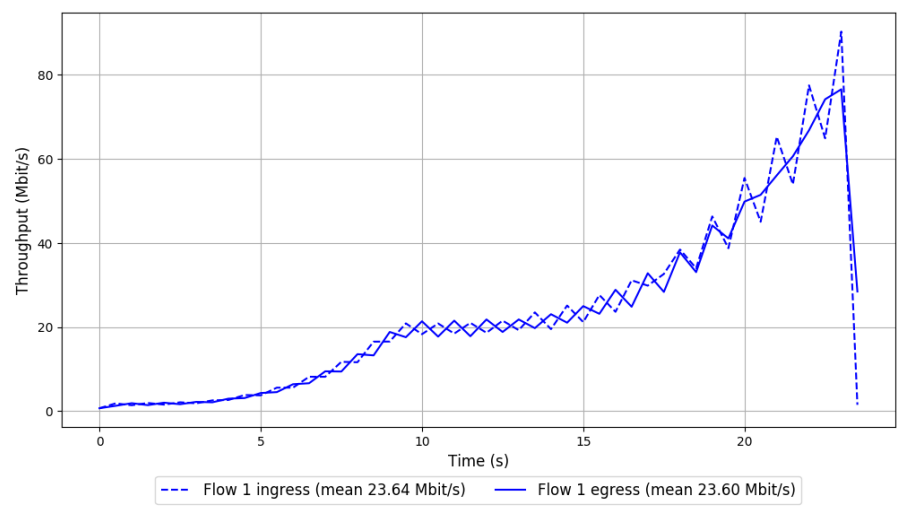


Run 1: Statistics of TCP Cubic

Start at: 2018-01-16 09:58:55

End at: 2018-01-16 09:59:25

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-01-16 10:12:22

End at: 2018-01-16 10:12:52

Below is generated by plot.py at 2018-01-16 13:36:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 115.40 Mbit/s

95th percentile per-packet one-way delay: 123.325 ms

Loss rate: 0.34%

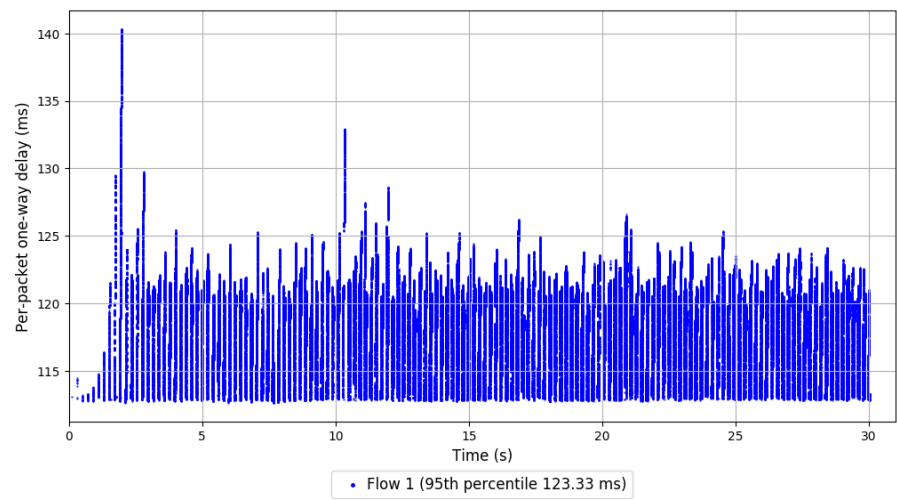
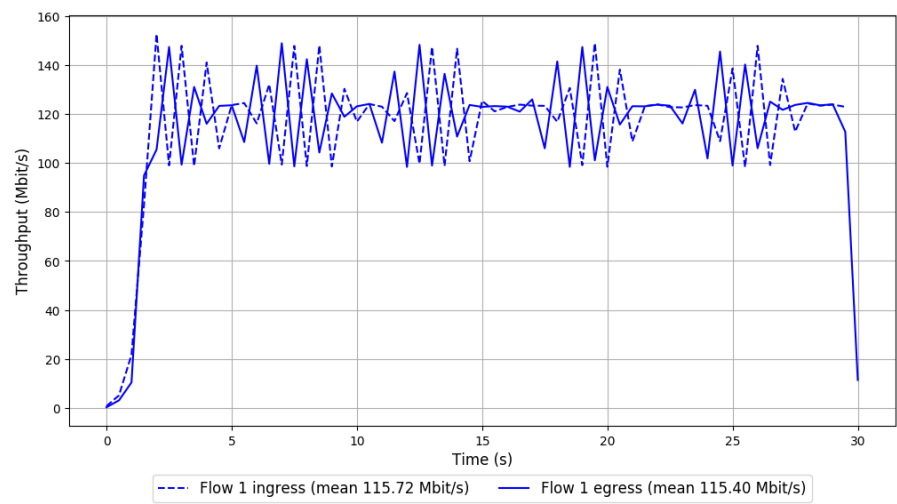
-- Flow 1:

Average throughput: 115.40 Mbit/s

95th percentile per-packet one-way delay: 123.325 ms

Loss rate: 0.34%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-01-16 10:26:37

End at: 2018-01-16 10:27:07

Below is generated by plot.py at 2018-01-16 13:36:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.78 Mbit/s

95th percentile per-packet one-way delay: 90.322 ms

Loss rate: 0.00%

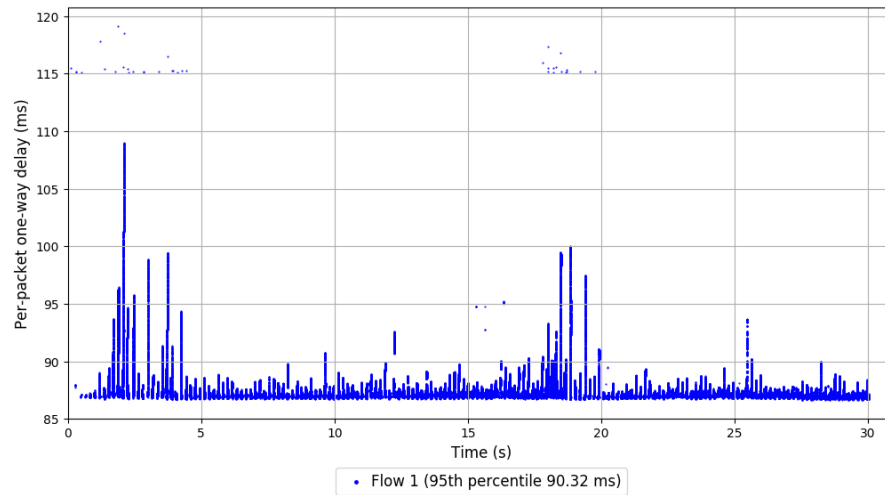
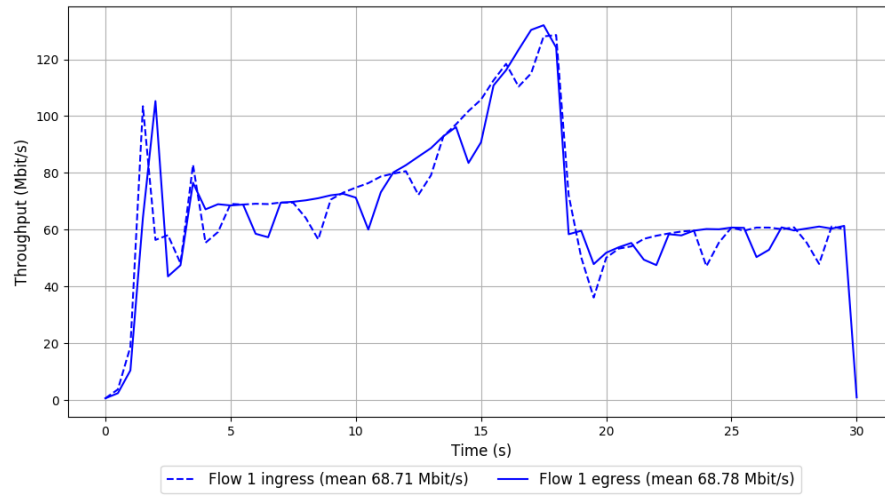
-- Flow 1:

Average throughput: 68.78 Mbit/s

95th percentile per-packet one-way delay: 90.322 ms

Loss rate: 0.00%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-01-16 10:40:37

End at: 2018-01-16 10:41:07

Below is generated by plot.py at 2018-01-16 13:36:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.45 Mbit/s

95th percentile per-packet one-way delay: 94.096 ms

Loss rate: 0.00%

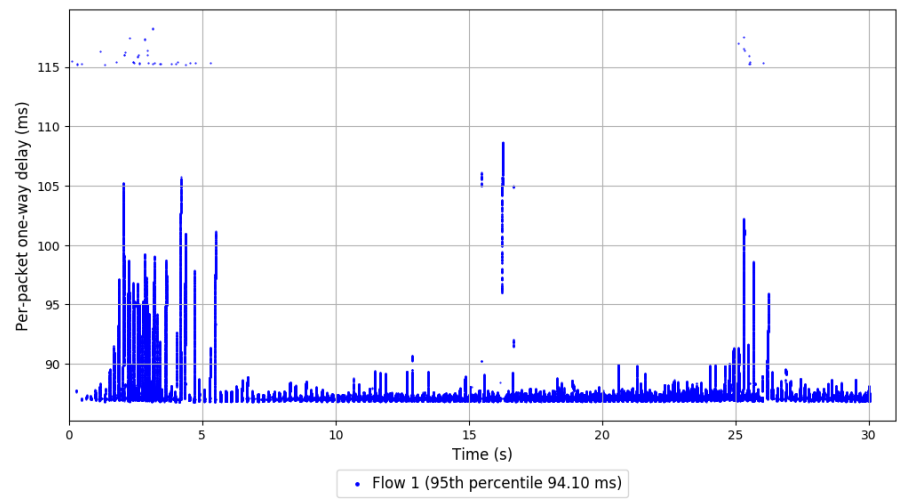
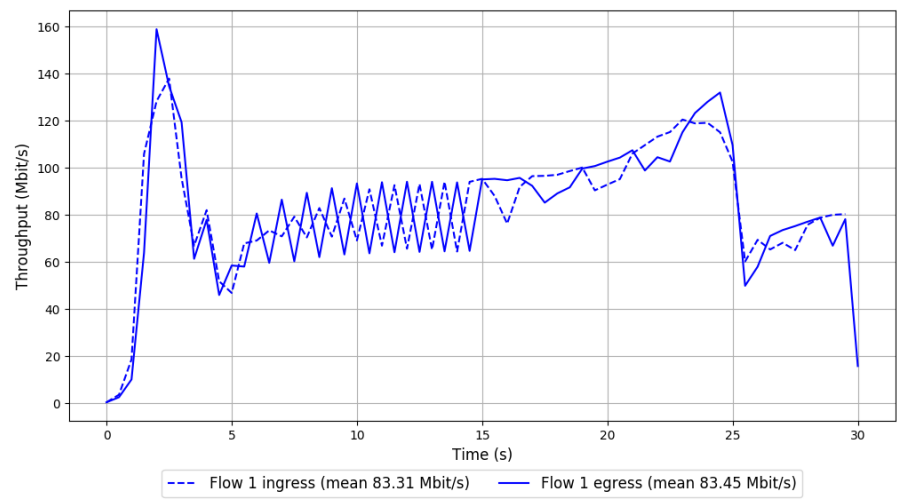
-- Flow 1:

Average throughput: 83.45 Mbit/s

95th percentile per-packet one-way delay: 94.096 ms

Loss rate: 0.00%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-01-16 10:54:51

End at: 2018-01-16 10:55:21

Below is generated by plot.py at 2018-01-16 13:36:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 46.90 Mbit/s

95th percentile per-packet one-way delay: 93.869 ms

Loss rate: 0.12%

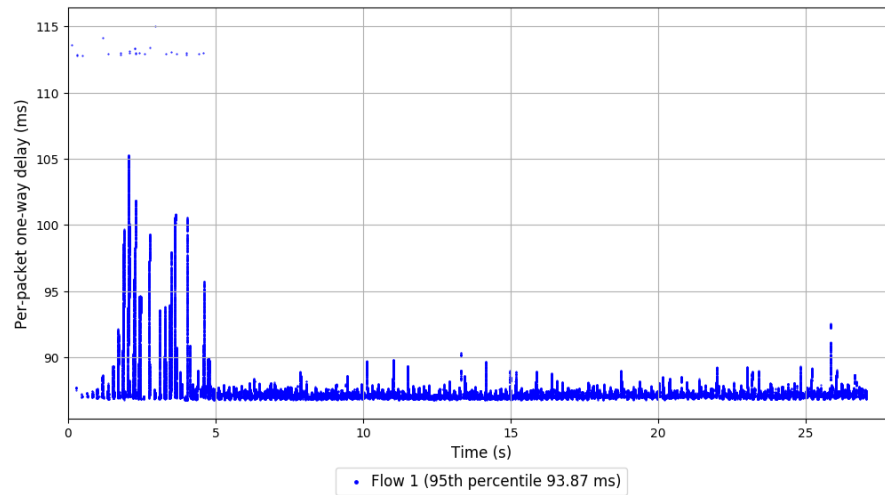
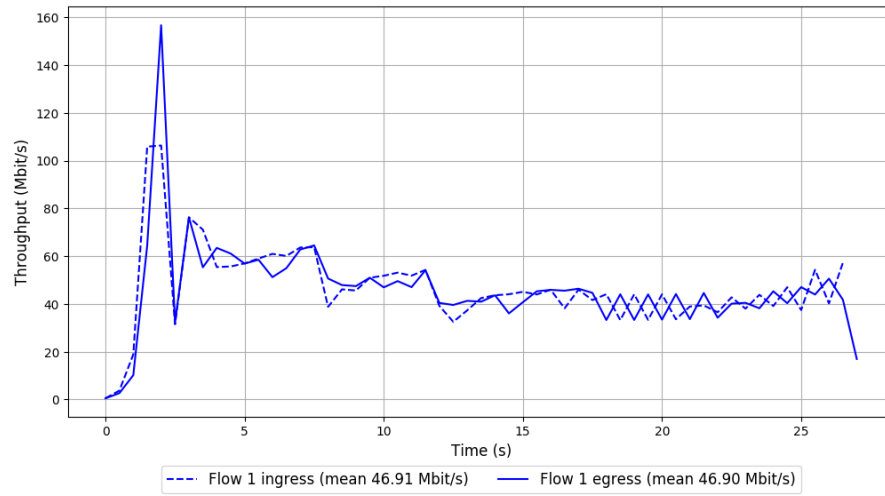
-- Flow 1:

Average throughput: 46.90 Mbit/s

95th percentile per-packet one-way delay: 93.869 ms

Loss rate: 0.12%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-01-16 11:08:39

End at: 2018-01-16 11:09:09

Below is generated by plot.py at 2018-01-16 13:36:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 37.45 Mbit/s

95th percentile per-packet one-way delay: 88.350 ms

Loss rate: 0.22%

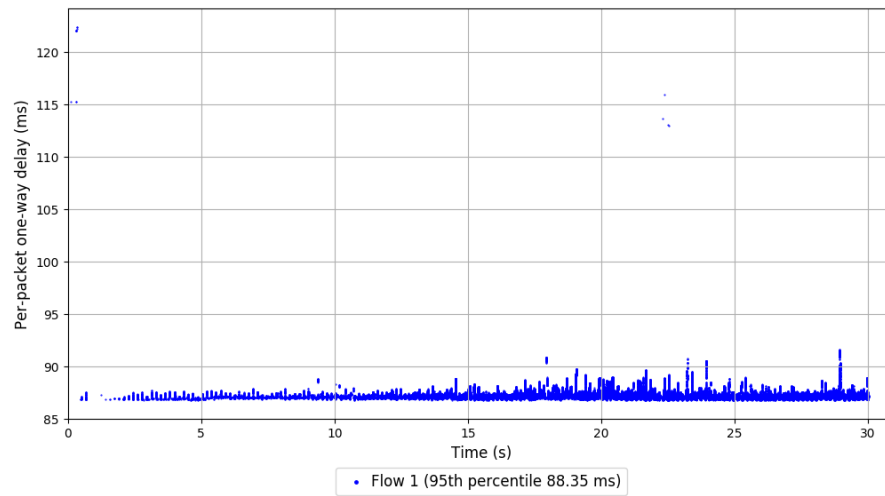
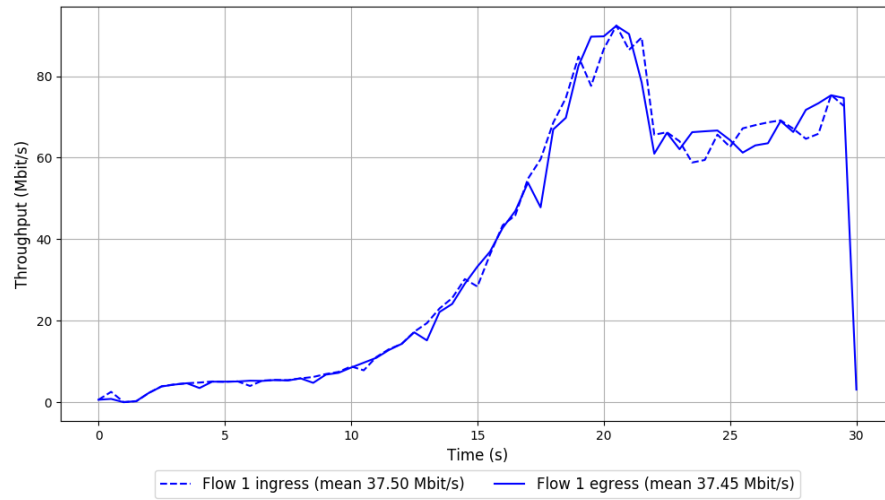
-- Flow 1:

Average throughput: 37.45 Mbit/s

95th percentile per-packet one-way delay: 88.350 ms

Loss rate: 0.22%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-01-16 11:22:27

End at: 2018-01-16 11:22:57

Below is generated by plot.py at 2018-01-16 13:37:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 122.42 Mbit/s

95th percentile per-packet one-way delay: 97.713 ms

Loss rate: 0.00%

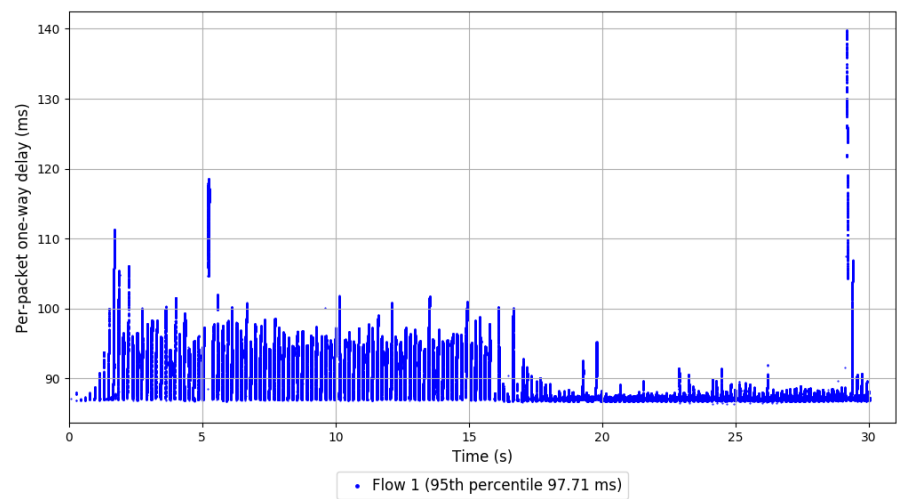
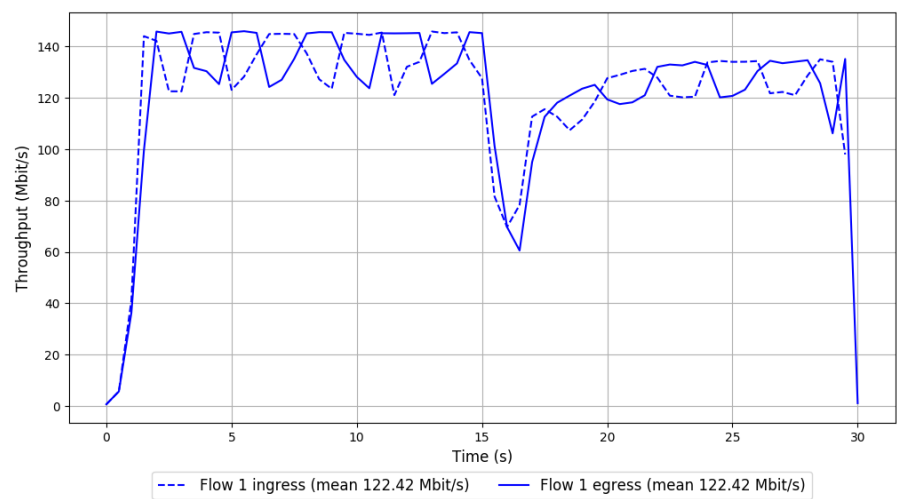
-- Flow 1:

Average throughput: 122.42 Mbit/s

95th percentile per-packet one-way delay: 97.713 ms

Loss rate: 0.00%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-01-16 11:36:29

End at: 2018-01-16 11:36:59

Below is generated by plot.py at 2018-01-16 13:37:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.32 Mbit/s

95th percentile per-packet one-way delay: 90.424 ms

Loss rate: 0.38%

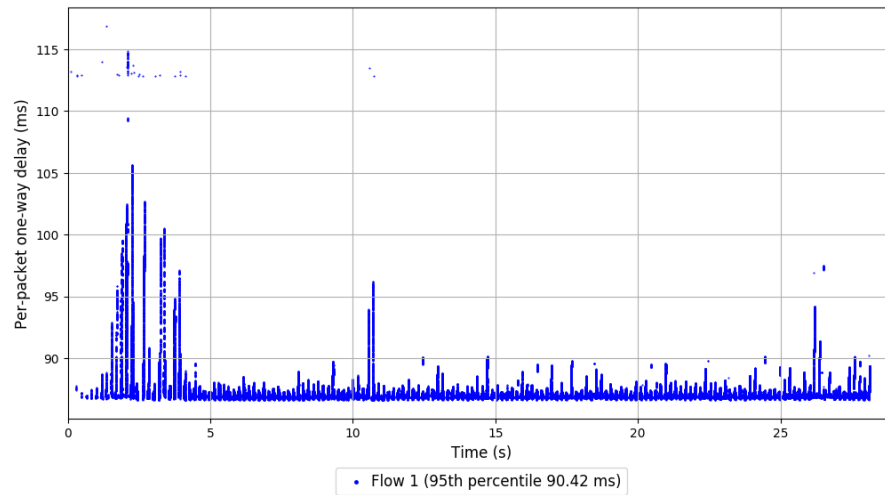
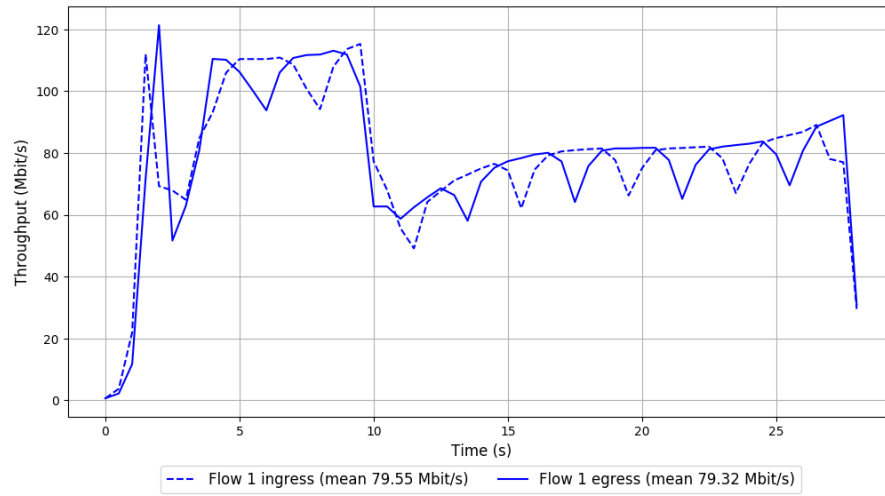
-- Flow 1:

Average throughput: 79.32 Mbit/s

95th percentile per-packet one-way delay: 90.424 ms

Loss rate: 0.38%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-01-16 11:51:13

End at: 2018-01-16 11:51:43

Below is generated by plot.py at 2018-01-16 13:37:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 30.37 Mbit/s

95th percentile per-packet one-way delay: 116.714 ms

Loss rate: 0.13%

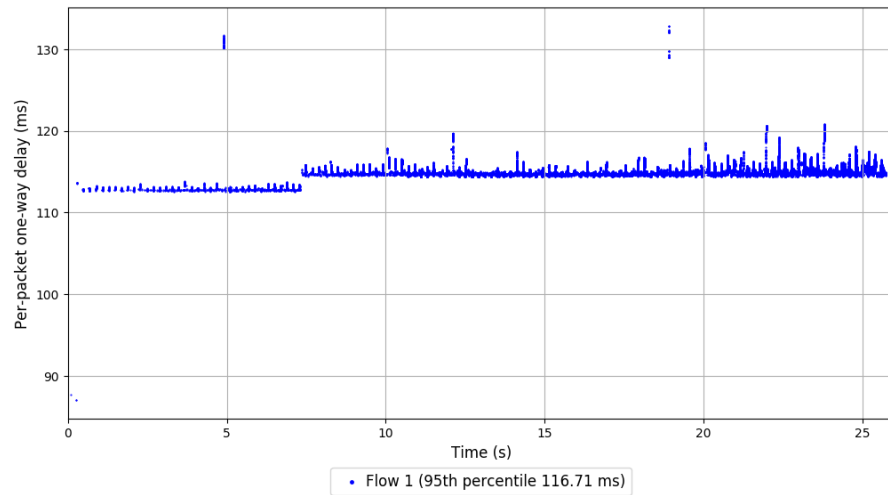
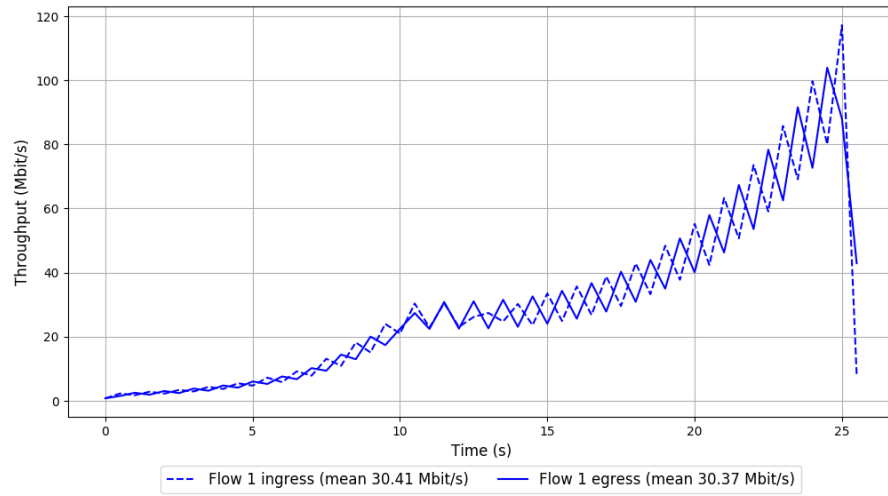
-- Flow 1:

Average throughput: 30.37 Mbit/s

95th percentile per-packet one-way delay: 116.714 ms

Loss rate: 0.13%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-01-16 12:04:55

End at: 2018-01-16 12:05:25

Below is generated by plot.py at 2018-01-16 13:37:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 60.20 Mbit/s

95th percentile per-packet one-way delay: 126.863 ms

Loss rate: 0.06%

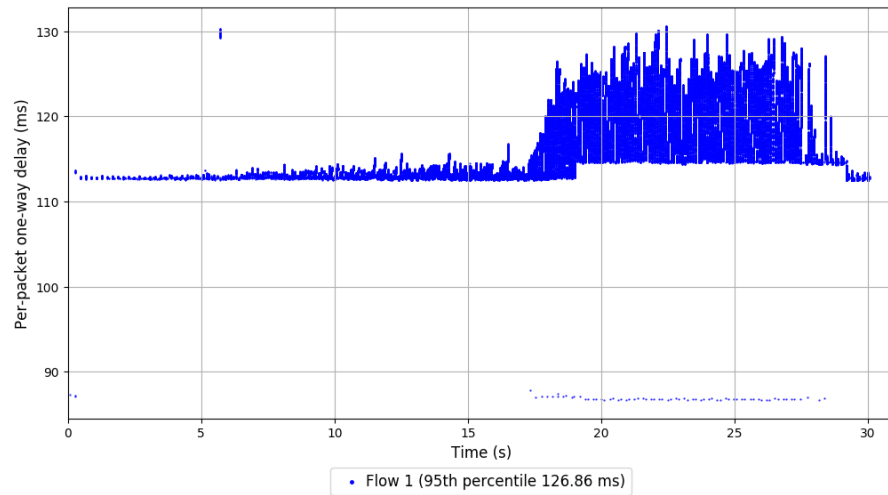
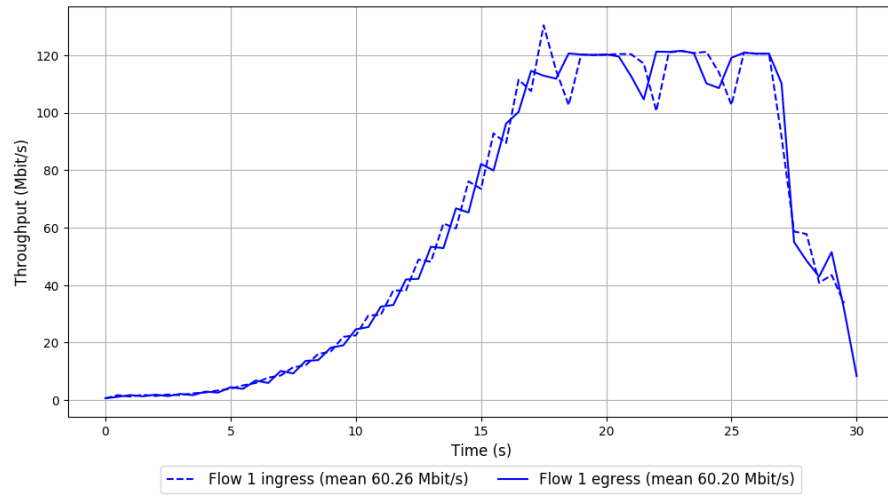
-- Flow 1:

Average throughput: 60.20 Mbit/s

95th percentile per-packet one-way delay: 126.863 ms

Loss rate: 0.06%

Run 10: Report of TCP Cubic — Data Link

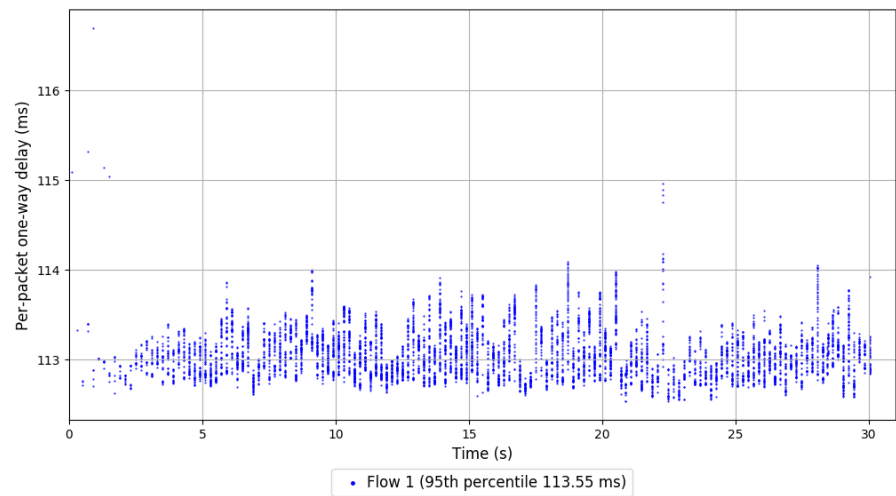
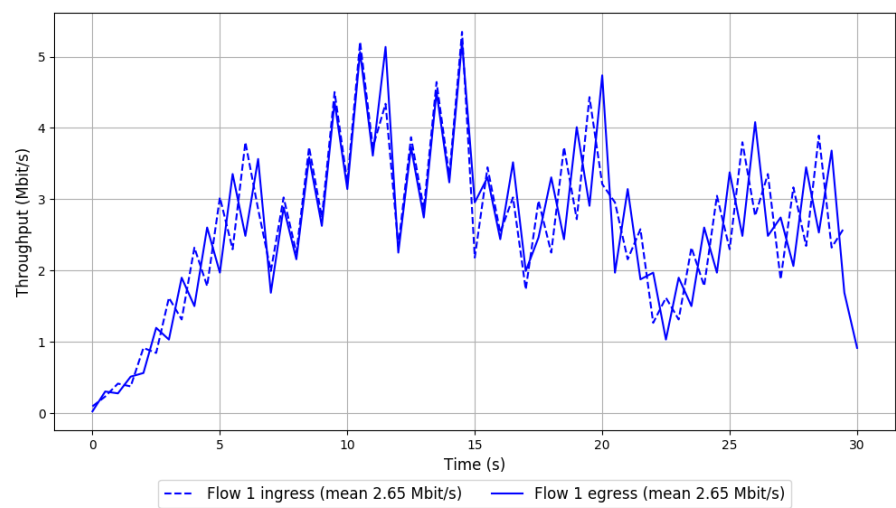


```
Run 1: Statistics of LEDBAT

Start at: 2018-01-16 09:55:14
End at: 2018-01-16 09:55:44

# Below is generated by plot.py at 2018-01-16 13:37:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.65 Mbit/s
95th percentile per-packet one-way delay: 113.546 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.65 Mbit/s
95th percentile per-packet one-way delay: 113.546 ms
Loss rate: 0.00%
```


Run 1: Report of LEDBAT — Data Link

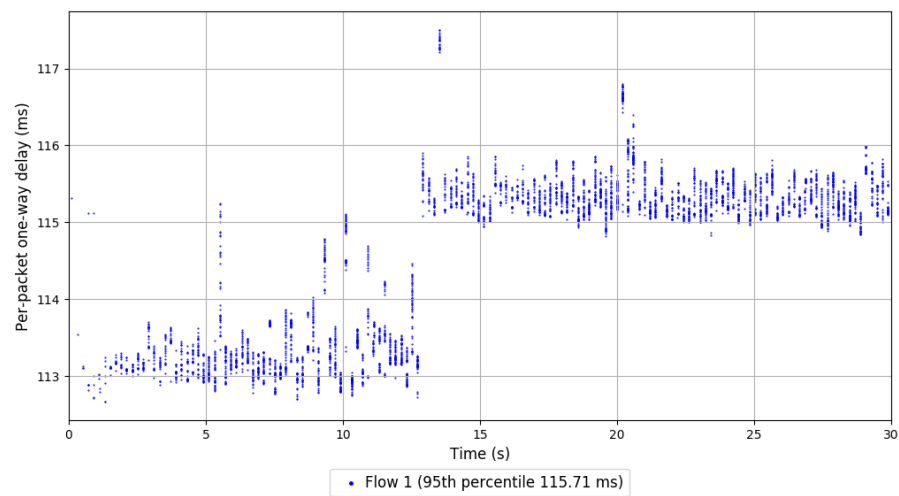
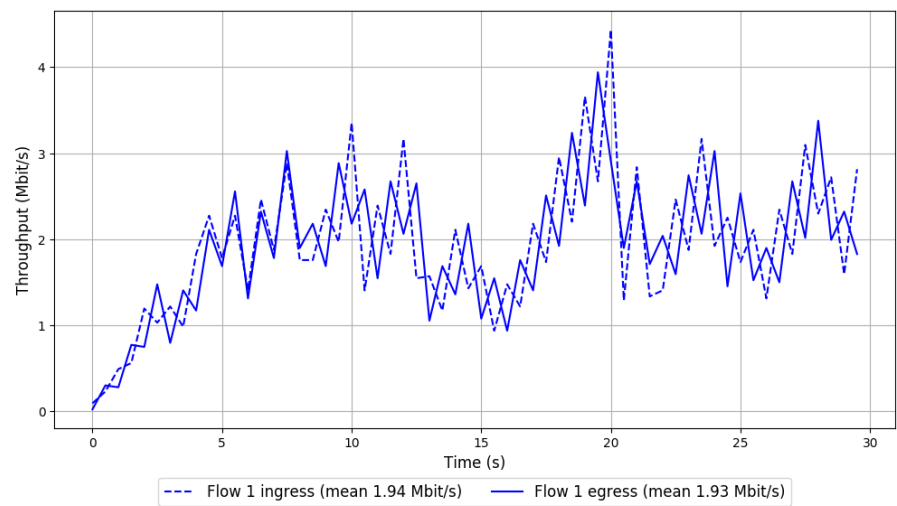


```
Run 2: Statistics of LEDBAT

Start at: 2018-01-16 10:08:41
End at: 2018-01-16 10:09:11

# Below is generated by plot.py at 2018-01-16 13:37:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.93 Mbit/s
95th percentile per-packet one-way delay: 115.709 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 1.93 Mbit/s
95th percentile per-packet one-way delay: 115.709 ms
Loss rate: 0.91%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-01-16 10:22:56

End at: 2018-01-16 10:23:26

Below is generated by plot.py at 2018-01-16 13:37:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.95 Mbit/s

95th percentile per-packet one-way delay: 87.727 ms

Loss rate: 0.00%

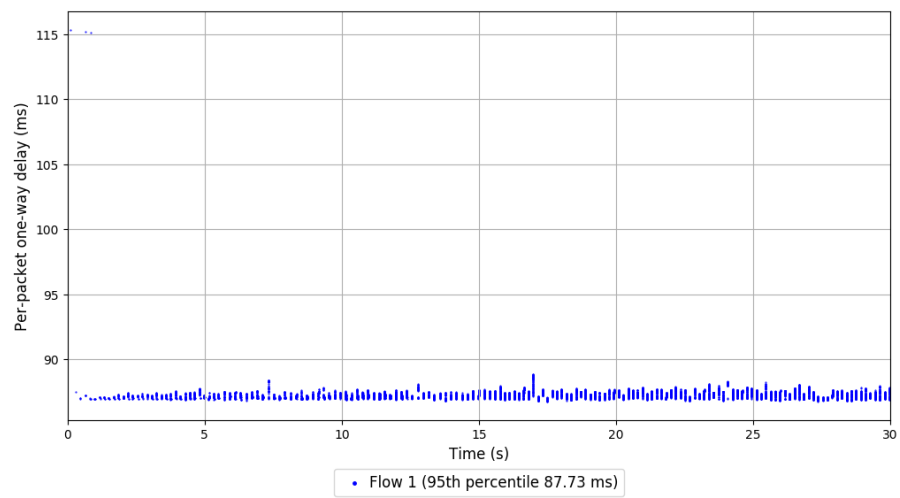
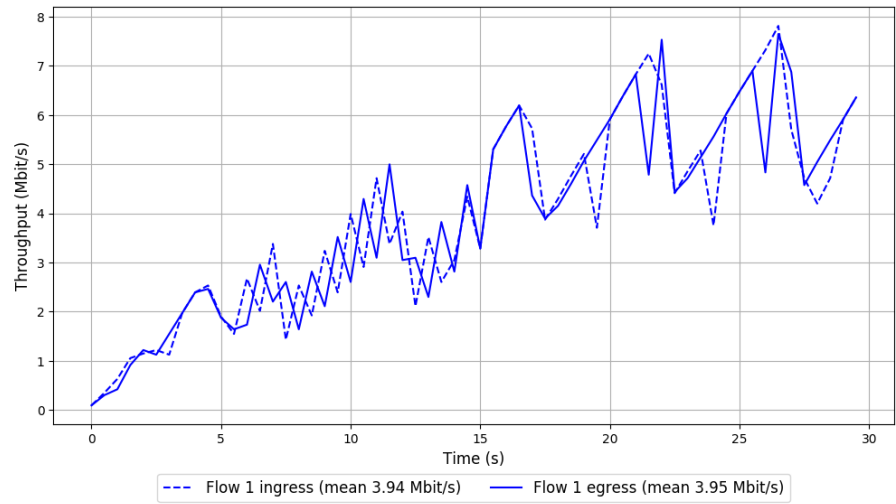
-- Flow 1:

Average throughput: 3.95 Mbit/s

95th percentile per-packet one-way delay: 87.727 ms

Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-01-16 10:36:53

End at: 2018-01-16 10:37:23

Below is generated by plot.py at 2018-01-16 13:37:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.44 Mbit/s

95th percentile per-packet one-way delay: 87.880 ms

Loss rate: 0.00%

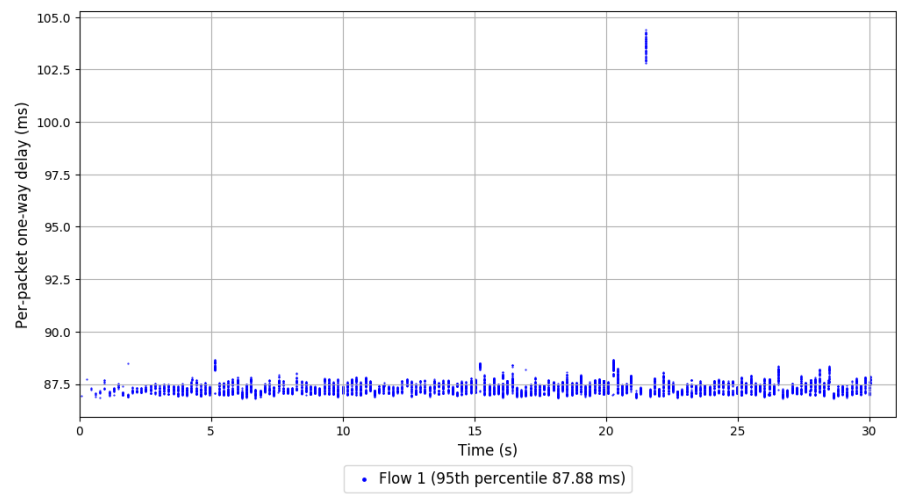
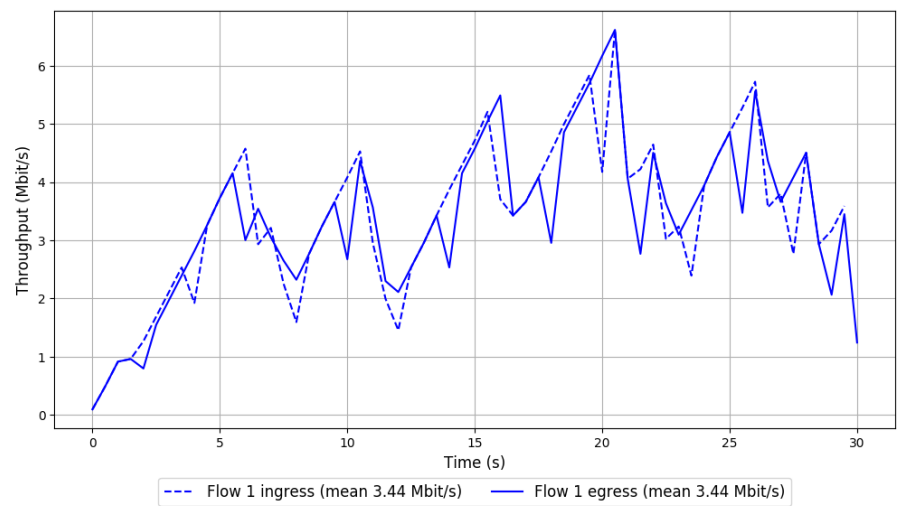
-- Flow 1:

Average throughput: 3.44 Mbit/s

95th percentile per-packet one-way delay: 87.880 ms

Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-01-16 10:51:06

End at: 2018-01-16 10:51:36

Below is generated by plot.py at 2018-01-16 13:37:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.71 Mbit/s

95th percentile per-packet one-way delay: 87.849 ms

Loss rate: 0.00%

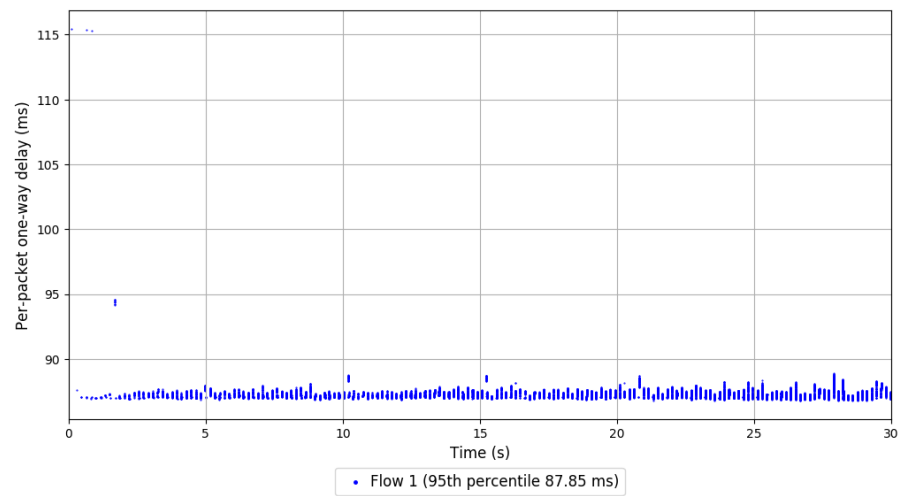
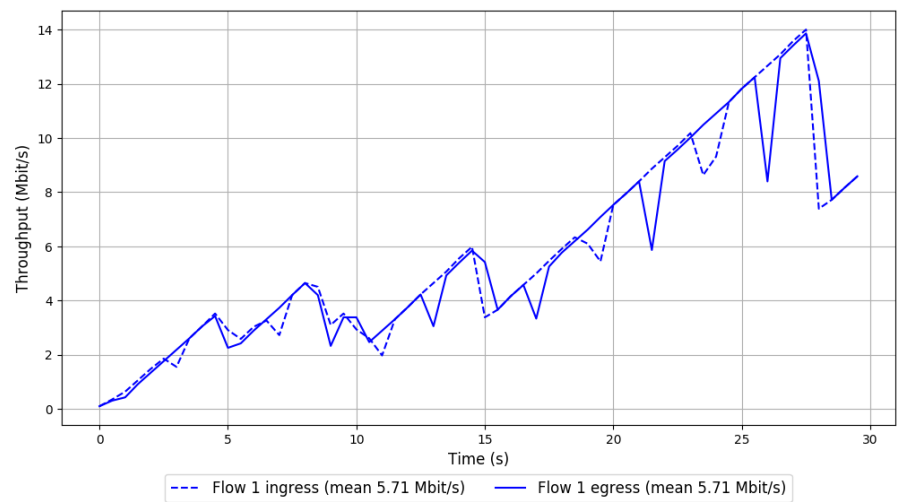
-- Flow 1:

Average throughput: 5.71 Mbit/s

95th percentile per-packet one-way delay: 87.849 ms

Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-01-16 11:05:08

End at: 2018-01-16 11:05:38

Below is generated by plot.py at 2018-01-16 13:37:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.40 Mbit/s

95th percentile per-packet one-way delay: 87.996 ms

Loss rate: 0.20%

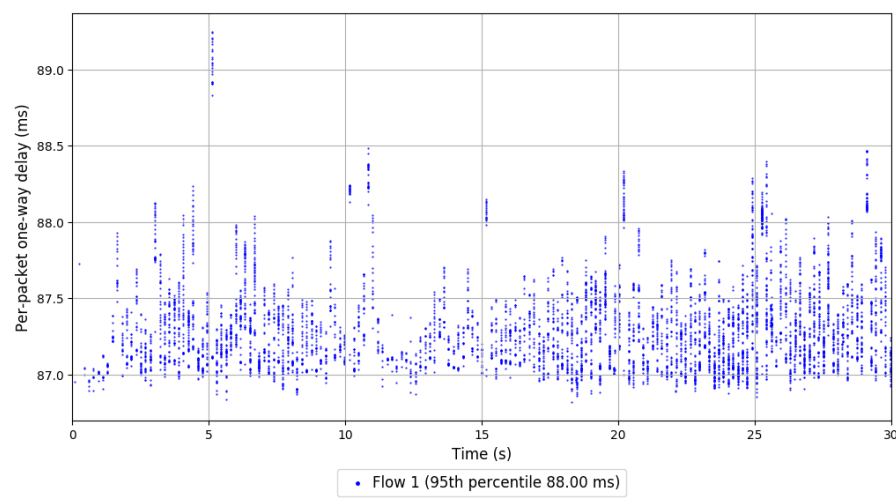
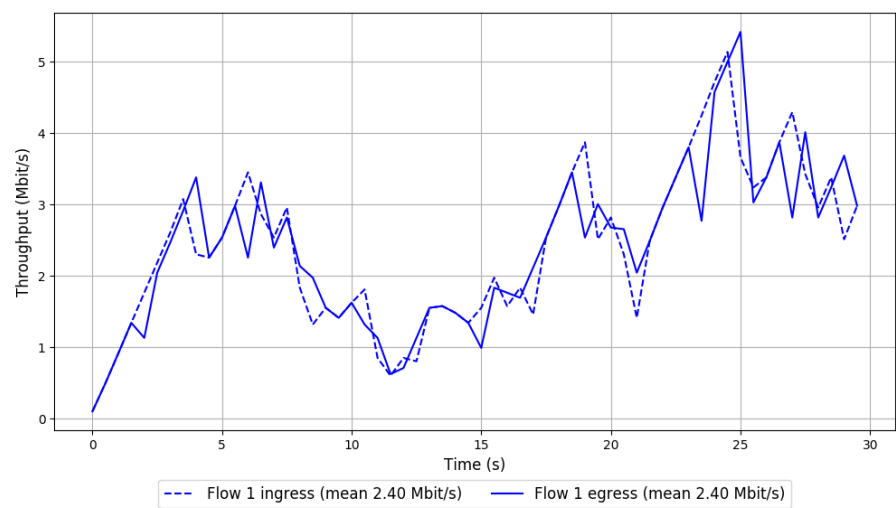
-- Flow 1:

Average throughput: 2.40 Mbit/s

95th percentile per-packet one-way delay: 87.996 ms

Loss rate: 0.20%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-01-16 11:18:47

End at: 2018-01-16 11:19:17

Below is generated by plot.py at 2018-01-16 13:37:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.34 Mbit/s

95th percentile per-packet one-way delay: 88.166 ms

Loss rate: 0.00%

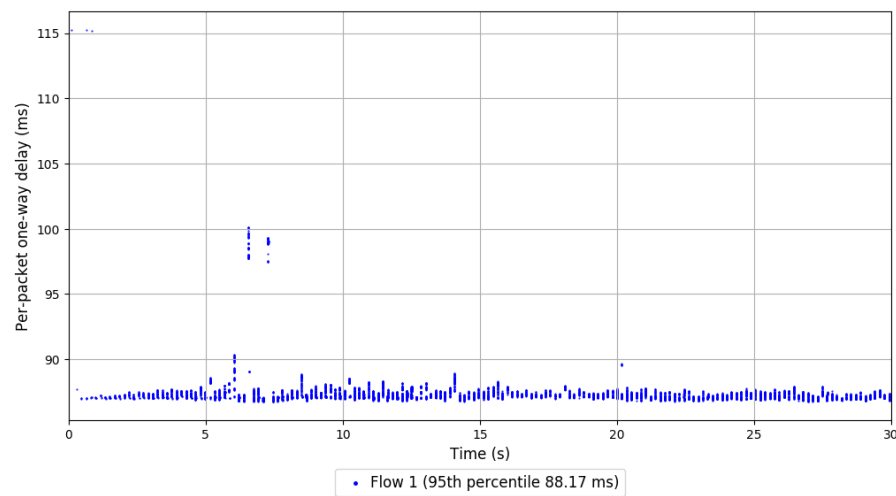
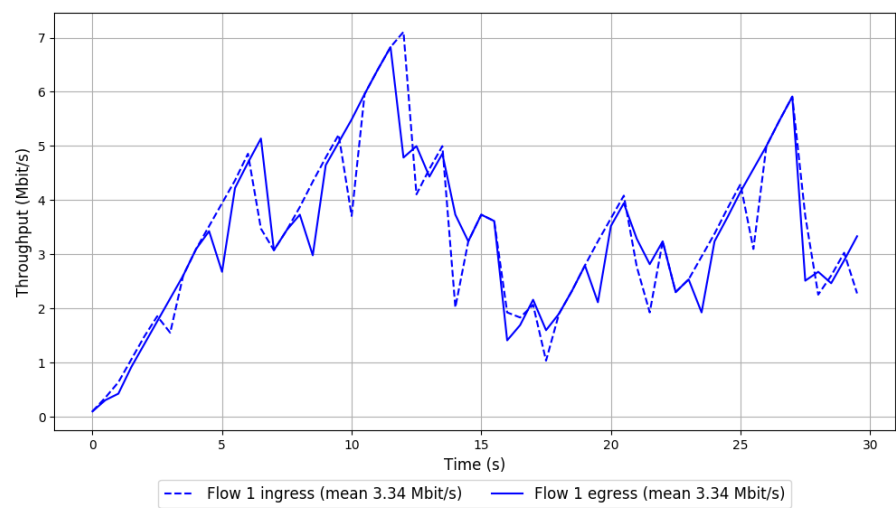
-- Flow 1:

Average throughput: 3.34 Mbit/s

95th percentile per-packet one-way delay: 88.166 ms

Loss rate: 0.00%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-01-16 11:32:51

End at: 2018-01-16 11:33:21

Below is generated by plot.py at 2018-01-16 13:37:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.00 Mbit/s

95th percentile per-packet one-way delay: 87.964 ms

Loss rate: 0.00%

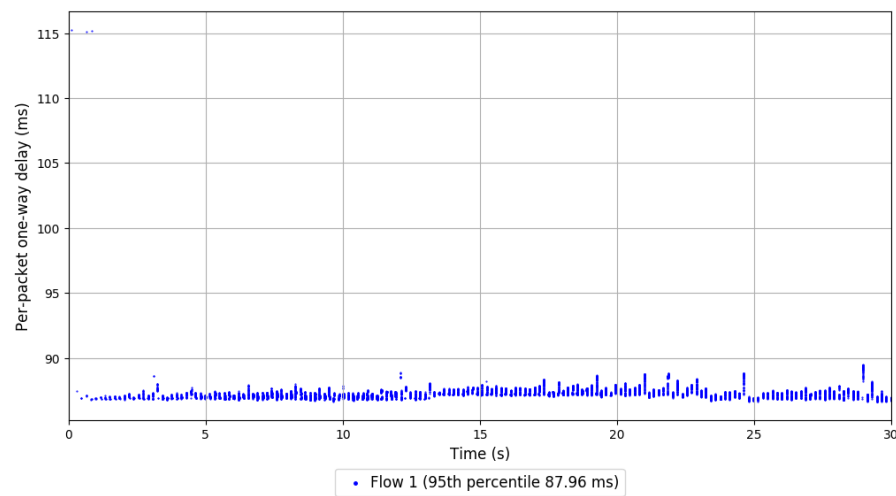
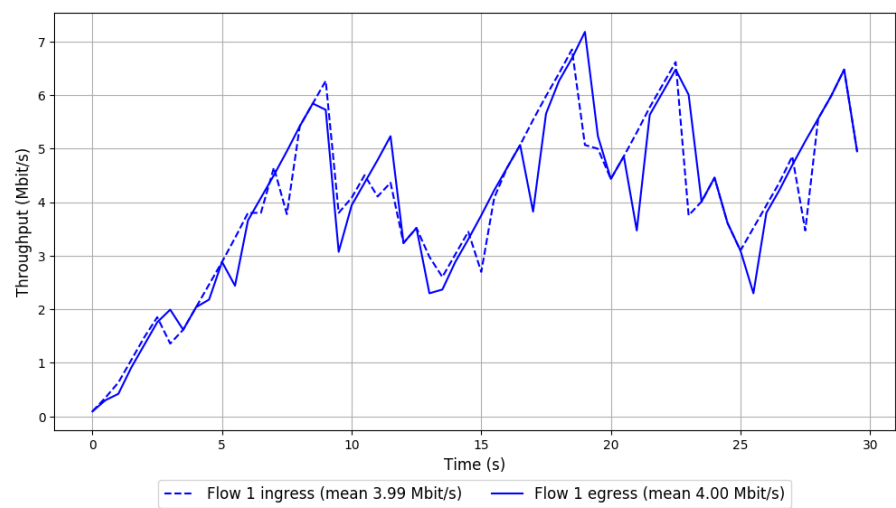
-- Flow 1:

Average throughput: 4.00 Mbit/s

95th percentile per-packet one-way delay: 87.964 ms

Loss rate: 0.00%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-01-16 11:47:31

End at: 2018-01-16 11:48:01

Below is generated by plot.py at 2018-01-16 13:37:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.58 Mbit/s

95th percentile per-packet one-way delay: 115.461 ms

Loss rate: 0.00%

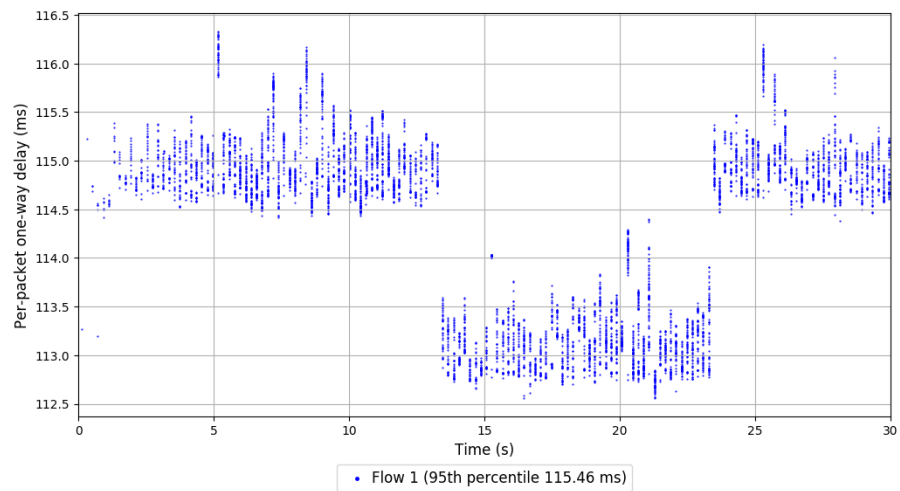
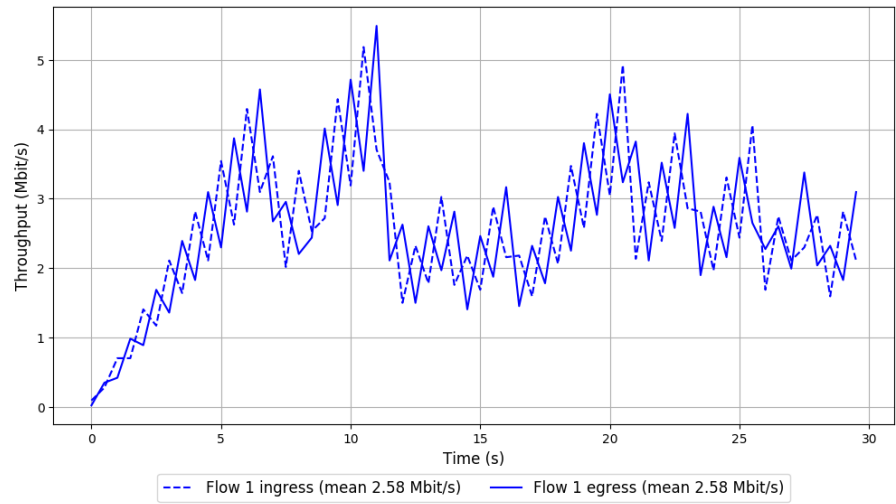
-- Flow 1:

Average throughput: 2.58 Mbit/s

95th percentile per-packet one-way delay: 115.461 ms

Loss rate: 0.00%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-01-16 12:01:16

End at: 2018-01-16 12:01:46

Below is generated by plot.py at 2018-01-16 13:37:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.80 Mbit/s

95th percentile per-packet one-way delay: 115.199 ms

Loss rate: 0.00%

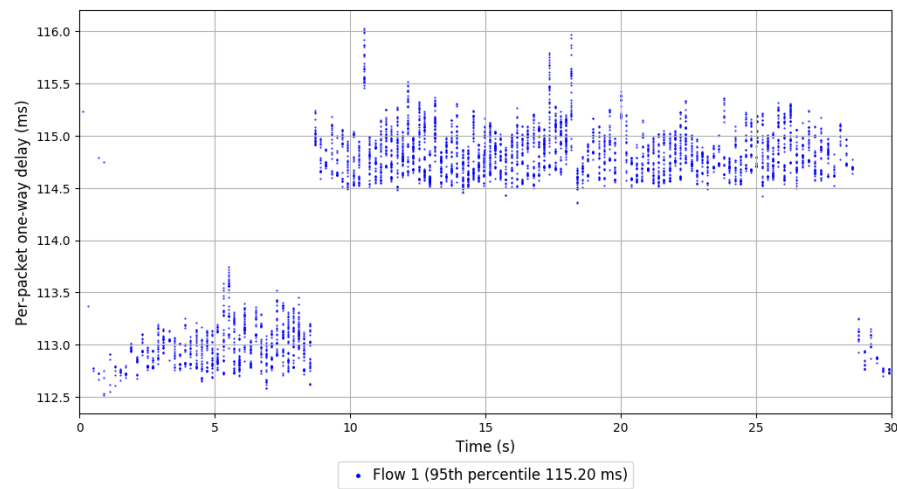
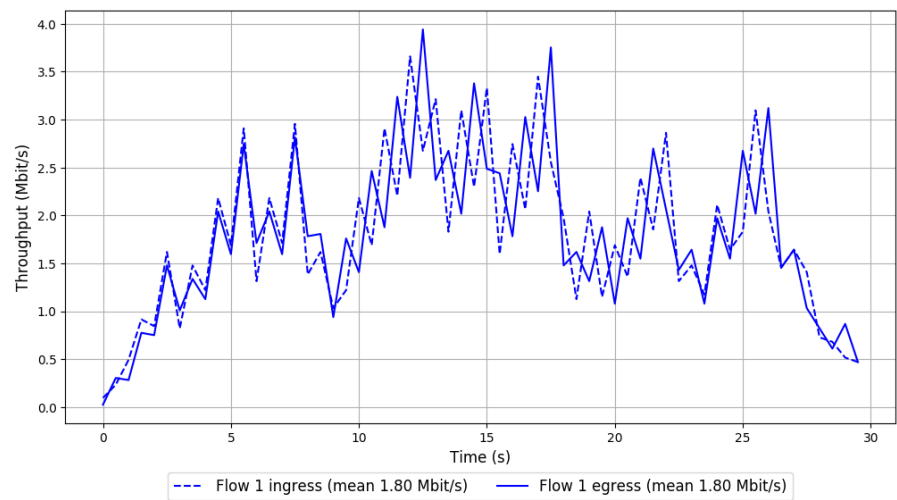
-- Flow 1:

Average throughput: 1.80 Mbit/s

95th percentile per-packet one-way delay: 115.199 ms

Loss rate: 0.00%

Run 10: Report of LEDBAT — Data Link

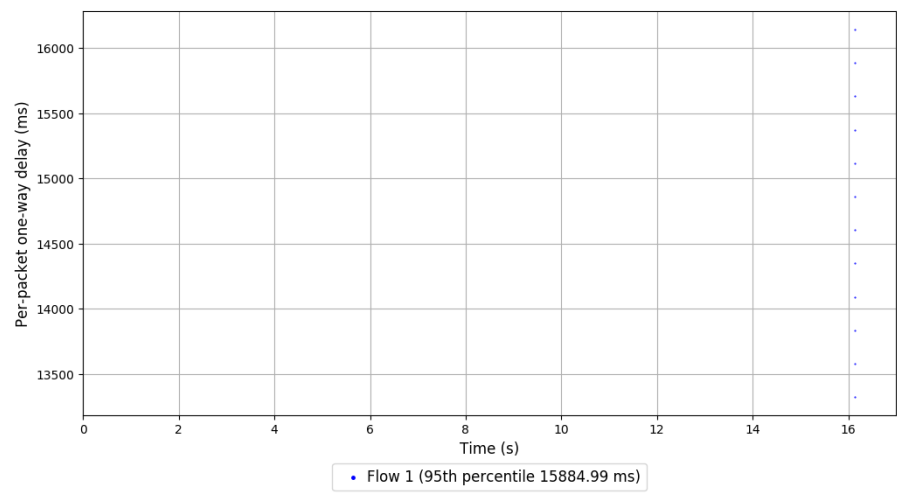
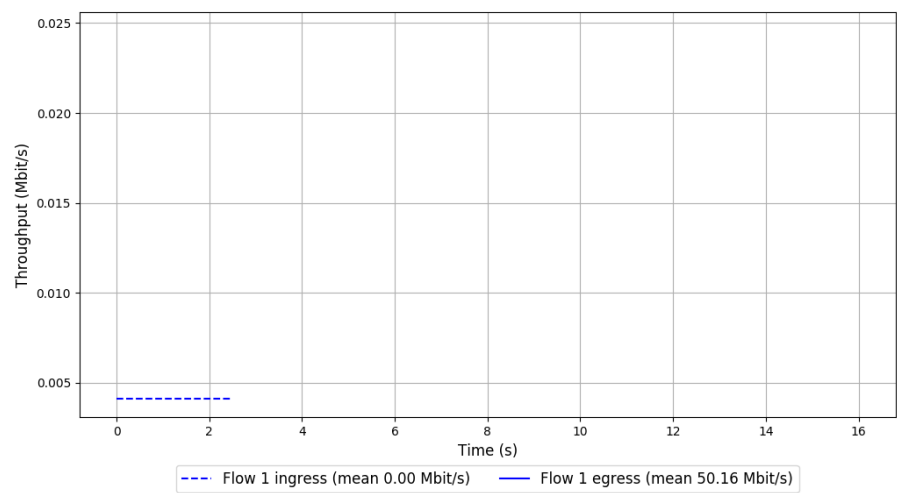


Run 1: Statistics of PCC

Start at: 2018-01-16 10:03:56

End at: 2018-01-16 10:04:26

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2018-01-16 10:17:44

End at: 2018-01-16 10:18:14

Below is generated by plot.py at 2018-01-16 13:43:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 371.80 Mbit/s

95th percentile per-packet one-way delay: 207.949 ms

Loss rate: 0.21%

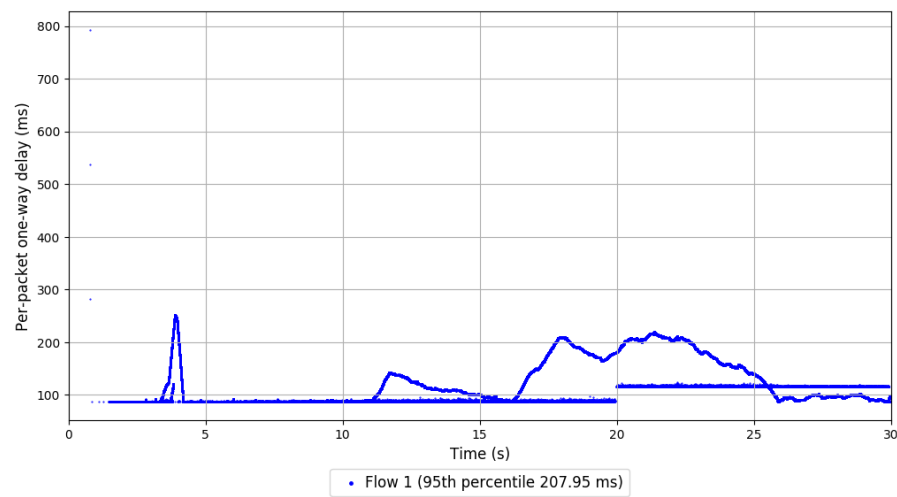
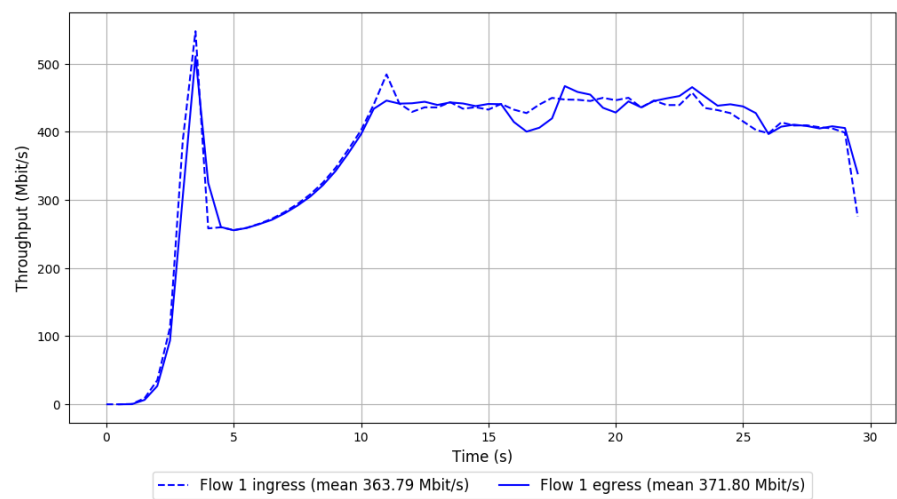
-- Flow 1:

Average throughput: 371.80 Mbit/s

95th percentile per-packet one-way delay: 207.949 ms

Loss rate: 0.21%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-01-16 10:31:33

End at: 2018-01-16 10:32:03

Below is generated by plot.py at 2018-01-16 13:43:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 345.75 Mbit/s

95th percentile per-packet one-way delay: 135.604 ms

Loss rate: 0.27%

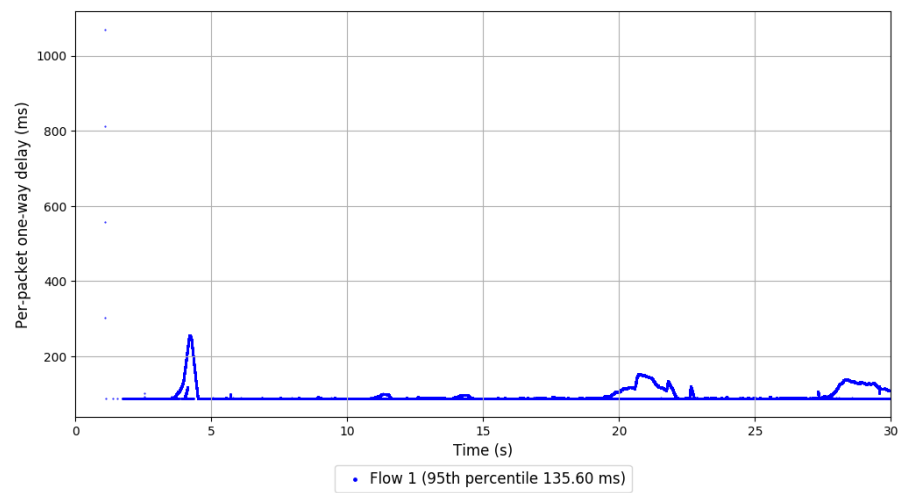
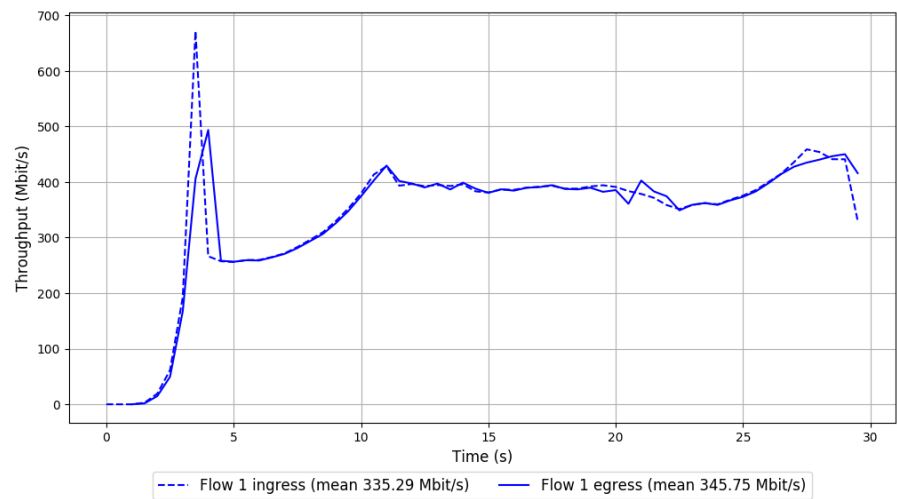
-- Flow 1:

Average throughput: 345.75 Mbit/s

95th percentile per-packet one-way delay: 135.604 ms

Loss rate: 0.27%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-01-16 10:45:42

End at: 2018-01-16 10:46:12

Below is generated by plot.py at 2018-01-16 13:43:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 333.61 Mbit/s

95th percentile per-packet one-way delay: 219.017 ms

Loss rate: 0.24%

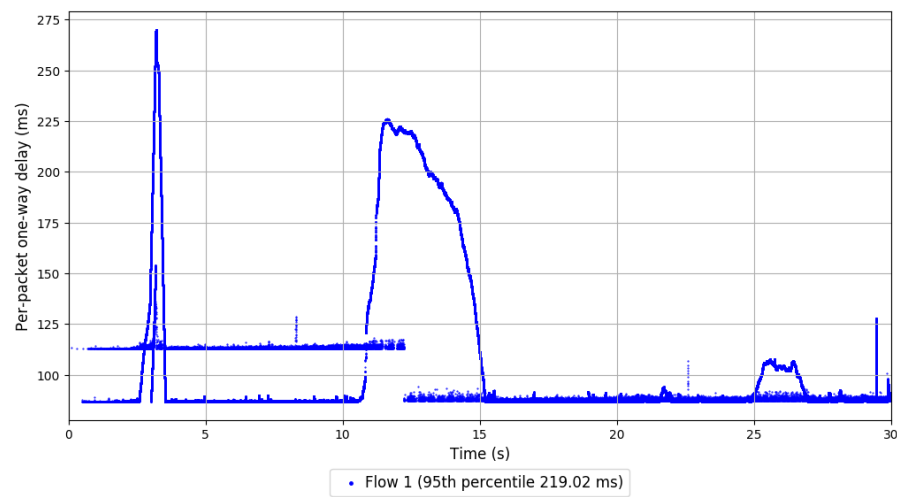
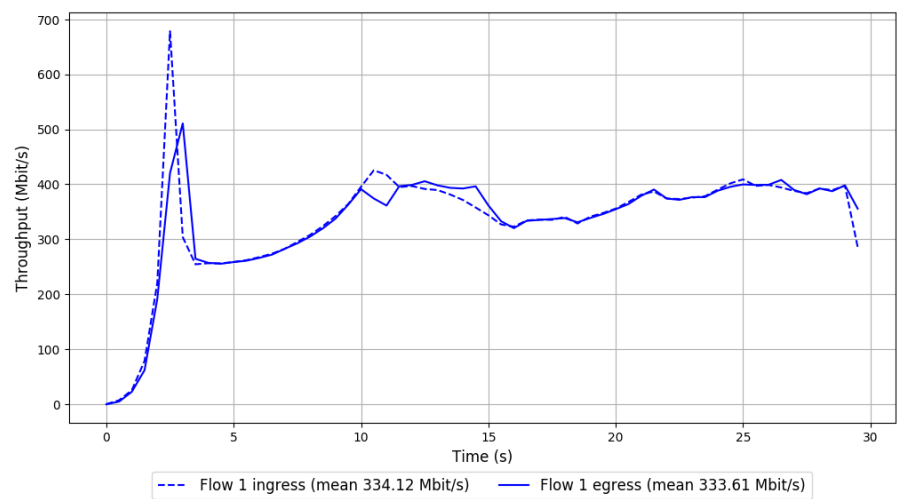
-- Flow 1:

Average throughput: 333.61 Mbit/s

95th percentile per-packet one-way delay: 219.017 ms

Loss rate: 0.24%

Run 4: Report of PCC — Data Link

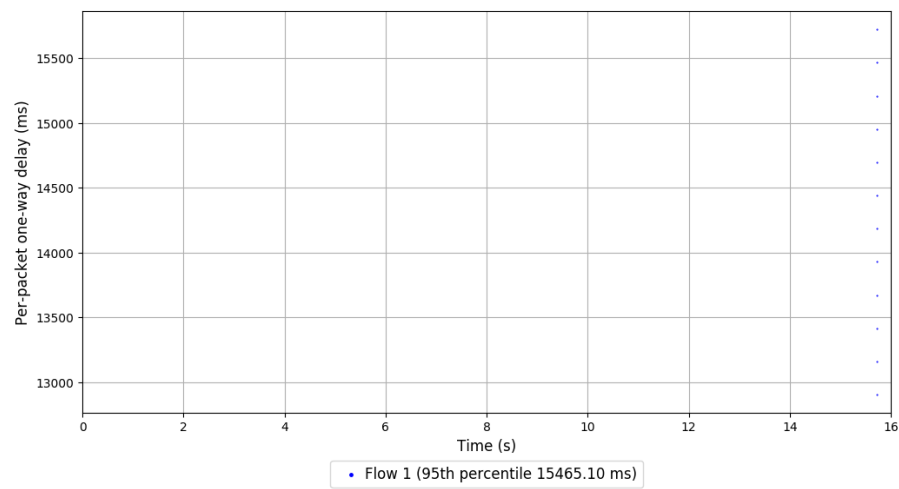
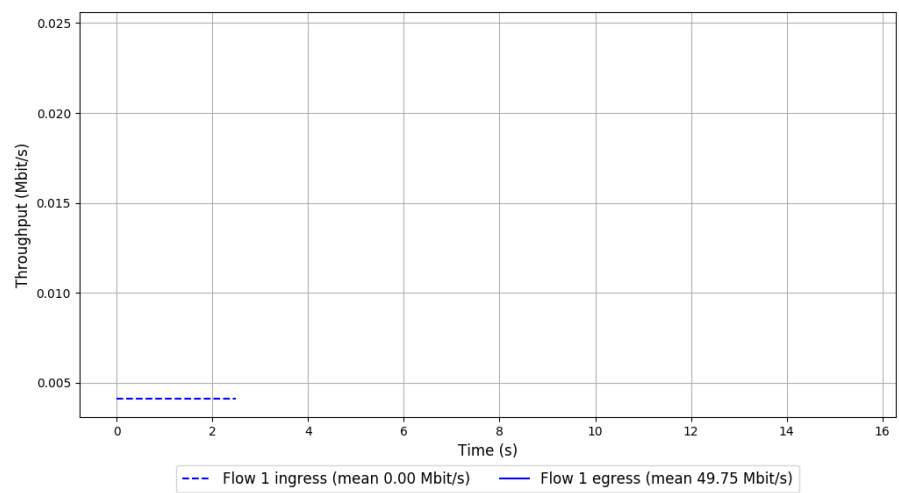


Run 5: Statistics of PCC

Start at: 2018-01-16 11:00:07

End at: 2018-01-16 11:00:37

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-01-16 11:13:46

End at: 2018-01-16 11:14:16

Below is generated by plot.py at 2018-01-16 13:43:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 352.13 Mbit/s

95th percentile per-packet one-way delay: 199.612 ms

Loss rate: 0.49%

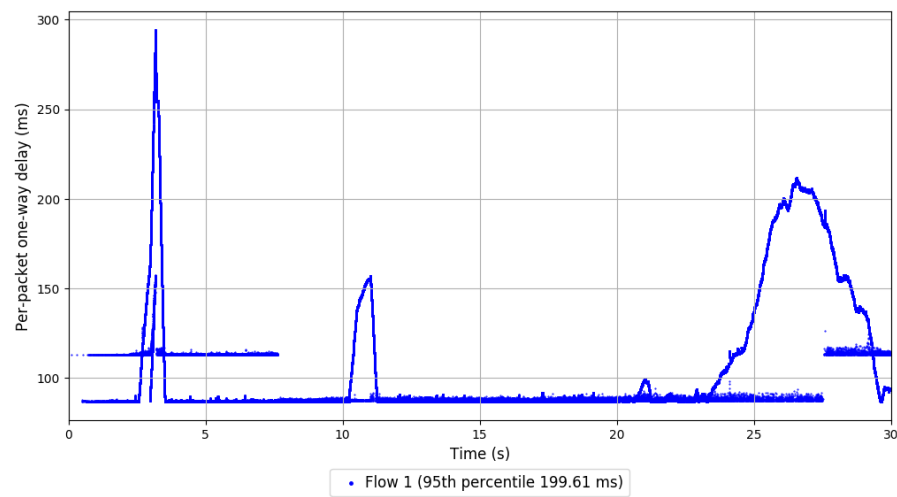
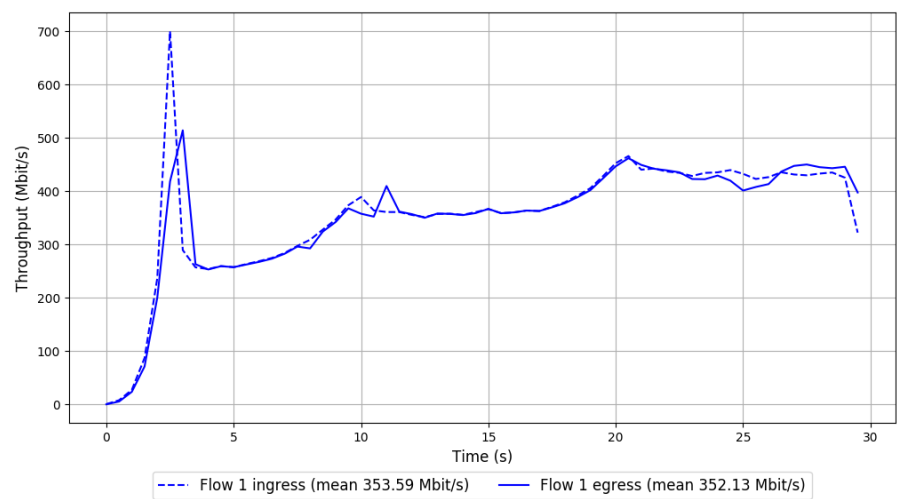
-- Flow 1:

Average throughput: 352.13 Mbit/s

95th percentile per-packet one-way delay: 199.612 ms

Loss rate: 0.49%

Run 6: Report of PCC — Data Link

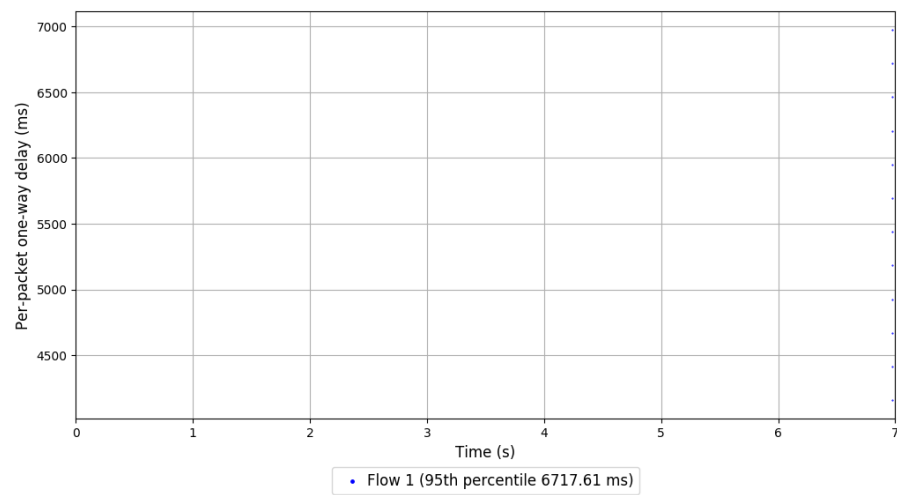
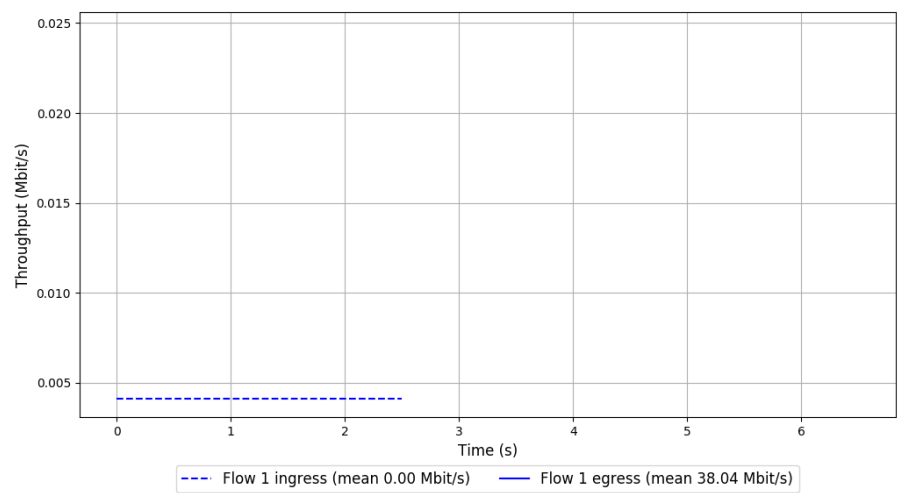


Run 7: Statistics of PCC

Start at: 2018-01-16 11:27:34

End at: 2018-01-16 11:28:04

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-01-16 11:42:01

End at: 2018-01-16 11:42:31

Below is generated by plot.py at 2018-01-16 13:43:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 340.68 Mbit/s

95th percentile per-packet one-way delay: 152.012 ms

Loss rate: 0.26%

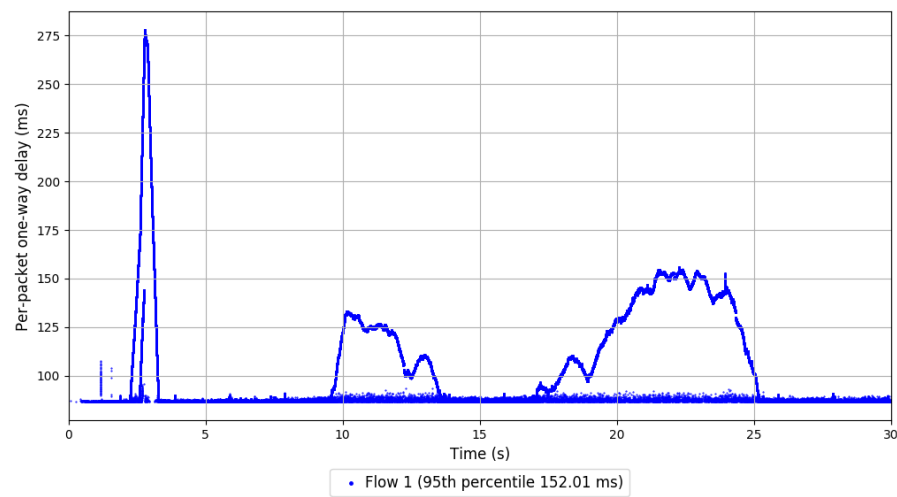
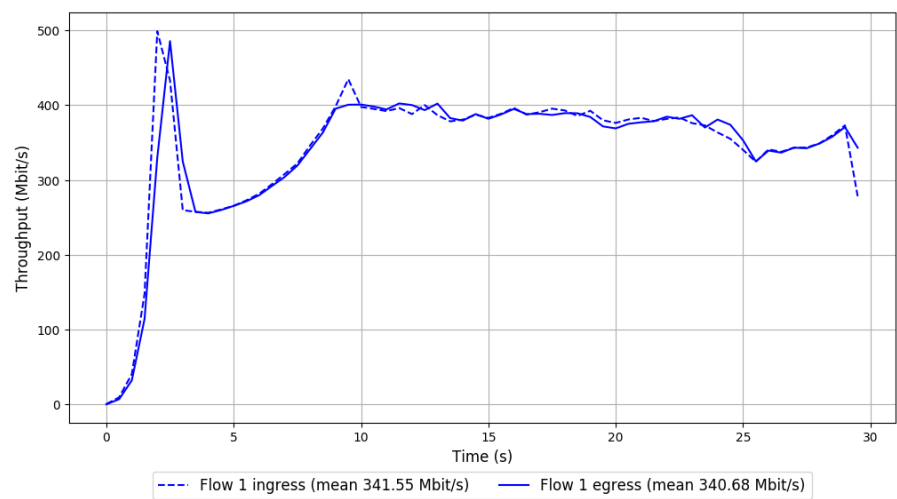
-- Flow 1:

Average throughput: 340.68 Mbit/s

95th percentile per-packet one-way delay: 152.012 ms

Loss rate: 0.26%

Run 8: Report of PCC — Data Link

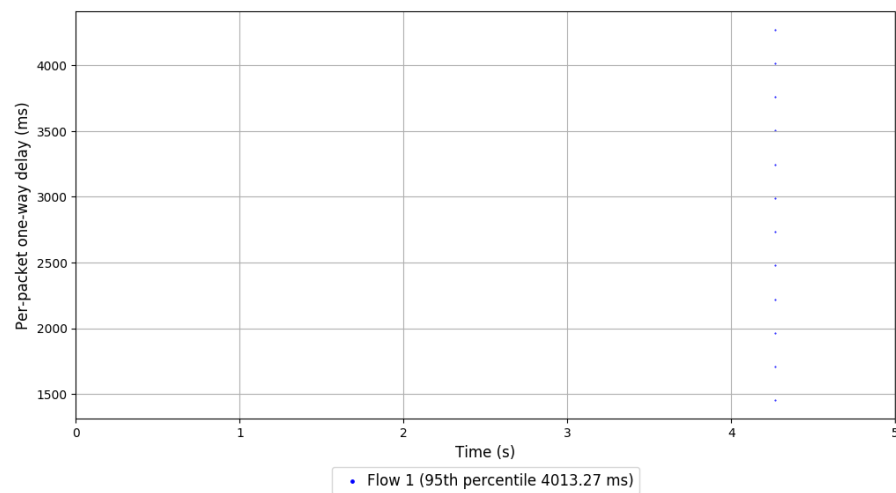
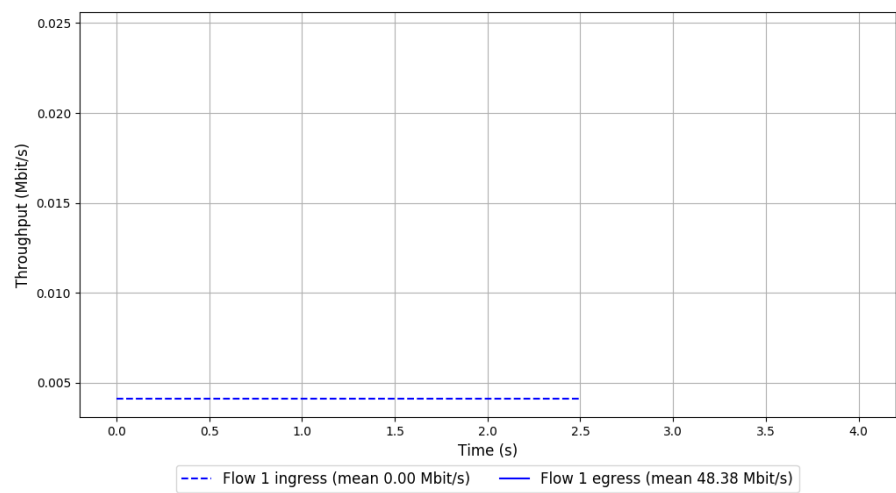


Run 9: Statistics of PCC

Start at: 2018-01-16 11:56:13

End at: 2018-01-16 11:56:43

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2018-01-16 12:10:01

End at: 2018-01-16 12:10:31

Below is generated by plot.py at 2018-01-16 13:43:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 320.43 Mbit/s

95th percentile per-packet one-way delay: 179.453 ms

Loss rate: 0.44%

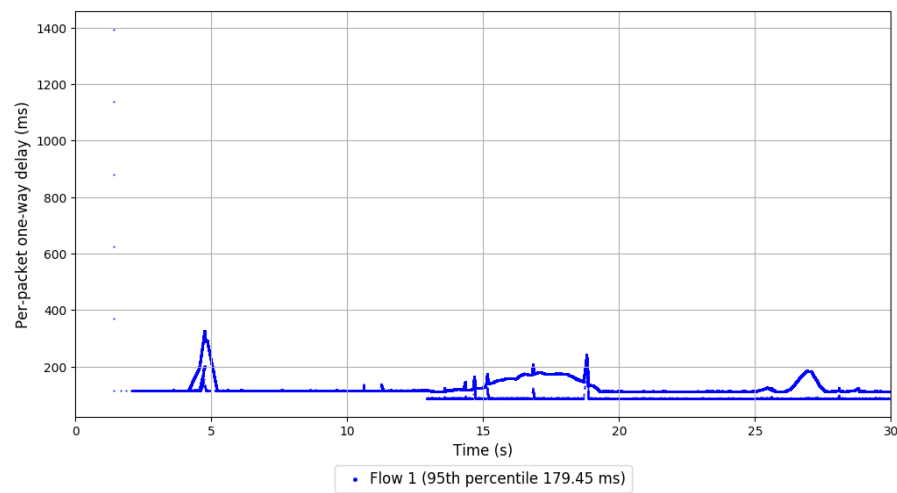
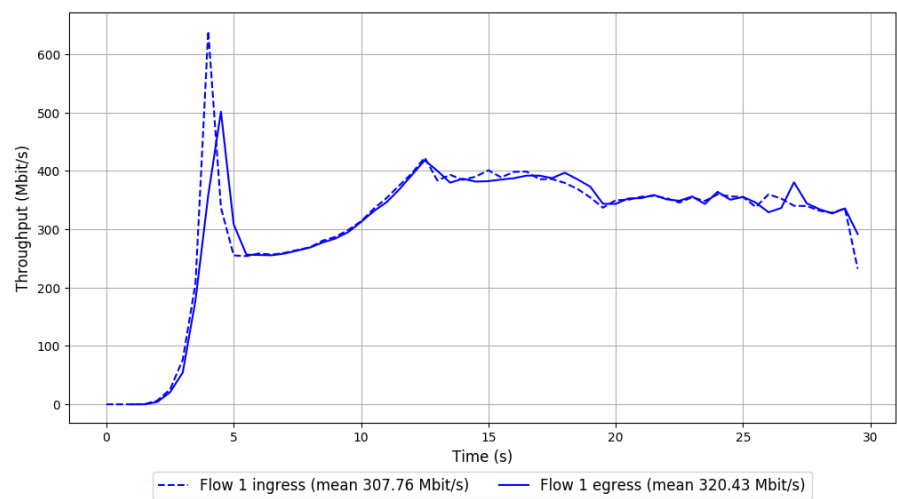
-- Flow 1:

Average throughput: 320.43 Mbit/s

95th percentile per-packet one-way delay: 179.453 ms

Loss rate: 0.44%

Run 10: Report of PCC — Data Link

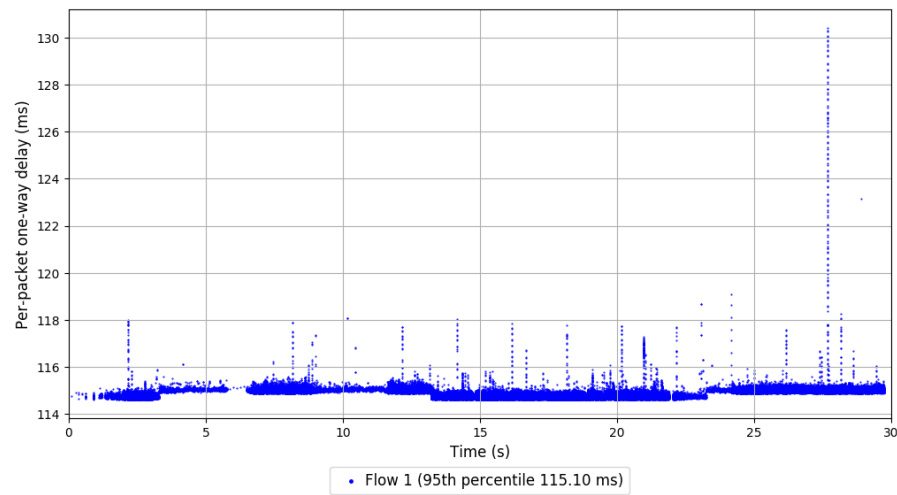
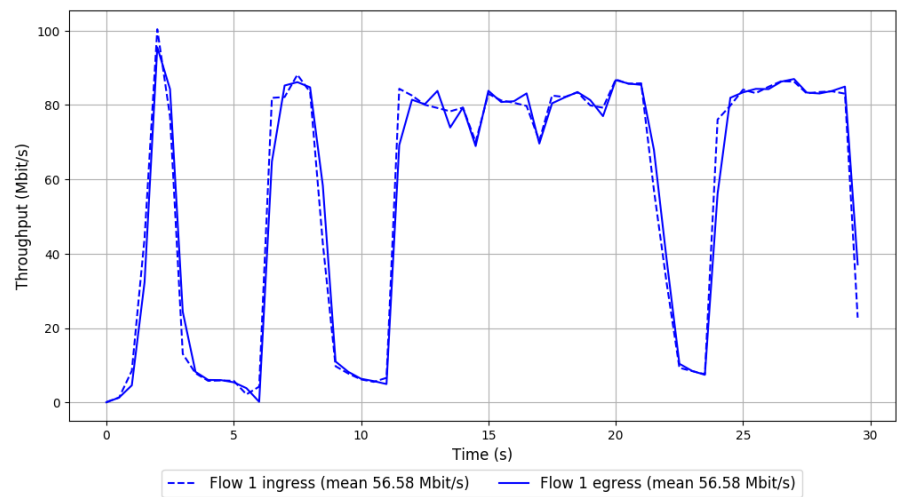


```
Run 1: Statistics of QUIC Cubic

Start at: 2018-01-16 09:58:11
End at: 2018-01-16 09:58:41

# Below is generated by plot.py at 2018-01-16 13:43:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 56.58 Mbit/s
95th percentile per-packet one-way delay: 115.102 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 56.58 Mbit/s
95th percentile per-packet one-way delay: 115.102 ms
Loss rate: 0.09%
```


Run 1: Report of QUIC Cubic — Data Link

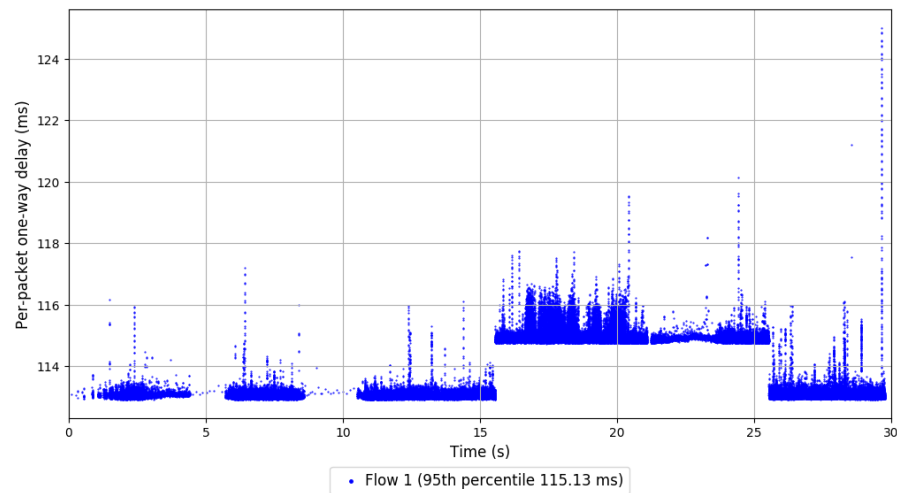
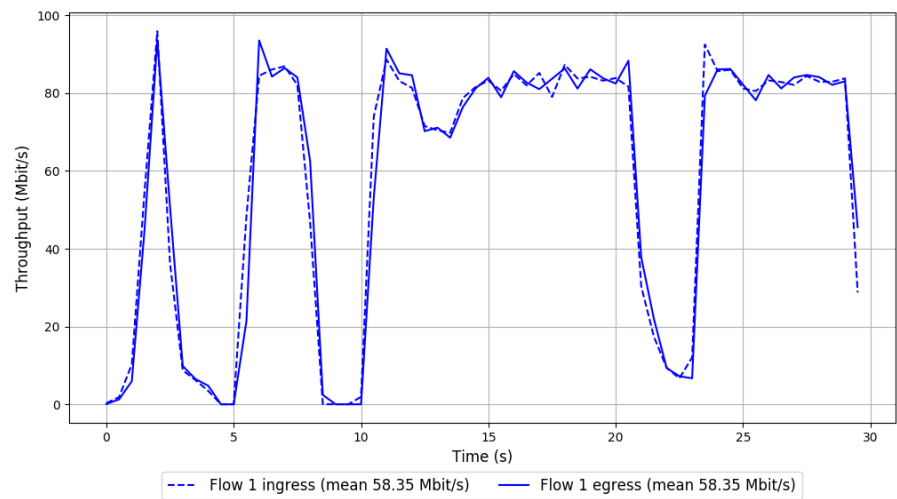


```
Run 2: Statistics of QUIC Cubic

Start at: 2018-01-16 10:11:38
End at: 2018-01-16 10:12:08

# Below is generated by plot.py at 2018-01-16 13:43:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 58.35 Mbit/s
95th percentile per-packet one-way delay: 115.132 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 58.35 Mbit/s
95th percentile per-packet one-way delay: 115.132 ms
Loss rate: 0.07%
```

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-01-16 10:25:54

End at: 2018-01-16 10:26:24

Below is generated by plot.py at 2018-01-16 13:43:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 46.51 Mbit/s

95th percentile per-packet one-way delay: 87.285 ms

Loss rate: 0.00%

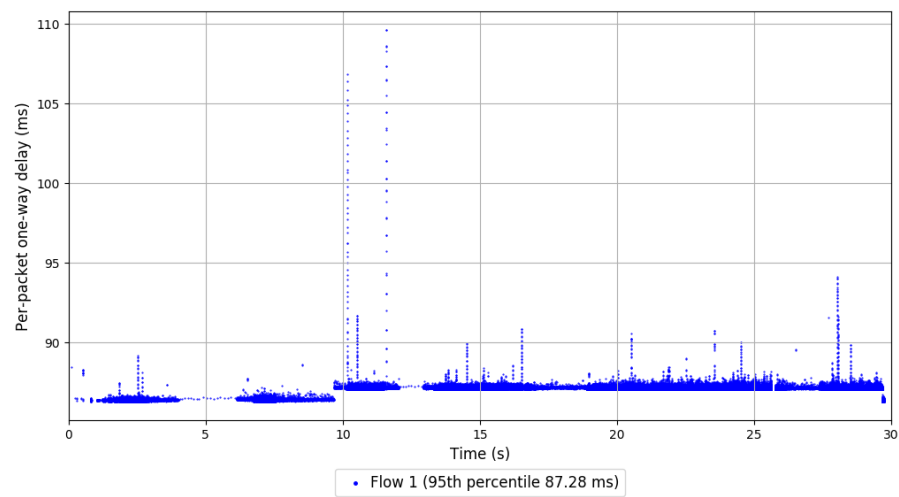
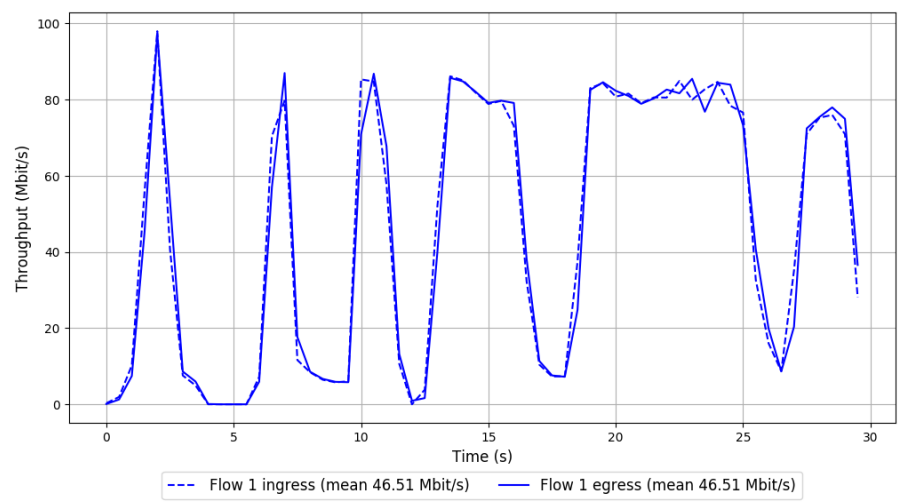
-- Flow 1:

Average throughput: 46.51 Mbit/s

95th percentile per-packet one-way delay: 87.285 ms

Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-01-16 10:39:54

End at: 2018-01-16 10:40:25

Below is generated by plot.py at 2018-01-16 13:43:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 46.93 Mbit/s

95th percentile per-packet one-way delay: 115.398 ms

Loss rate: 0.00%

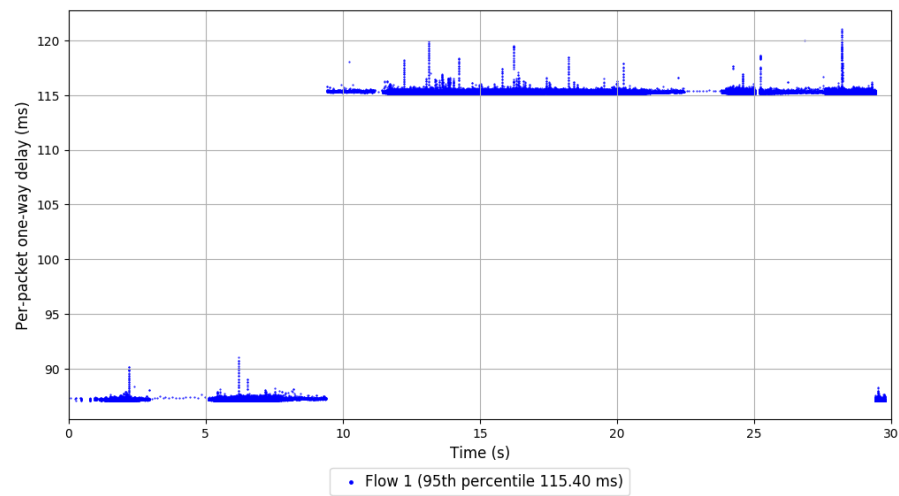
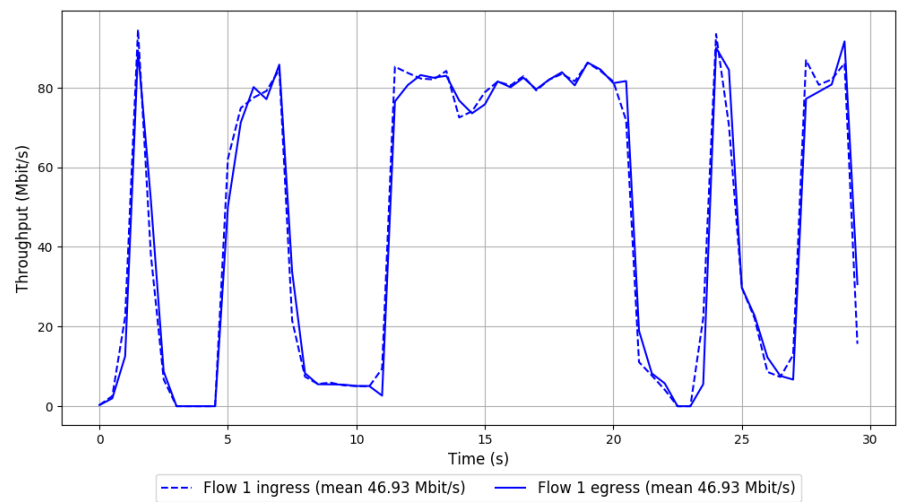
-- Flow 1:

Average throughput: 46.93 Mbit/s

95th percentile per-packet one-way delay: 115.398 ms

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link

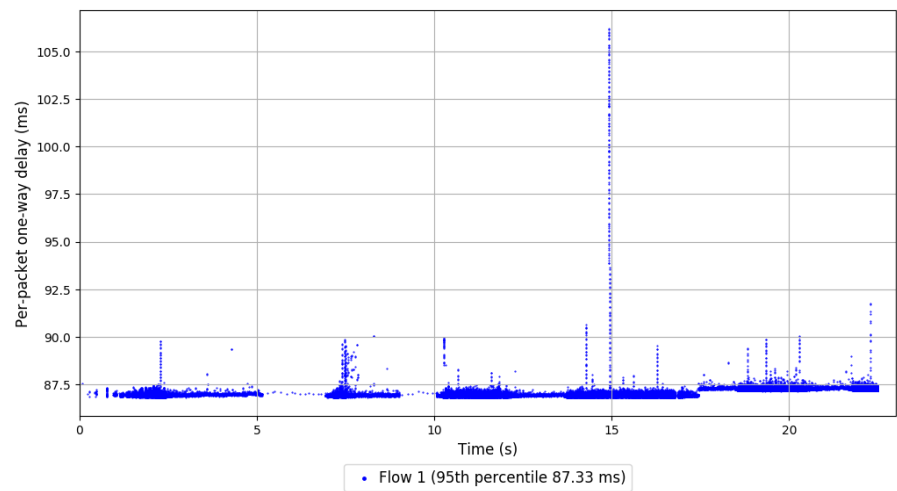
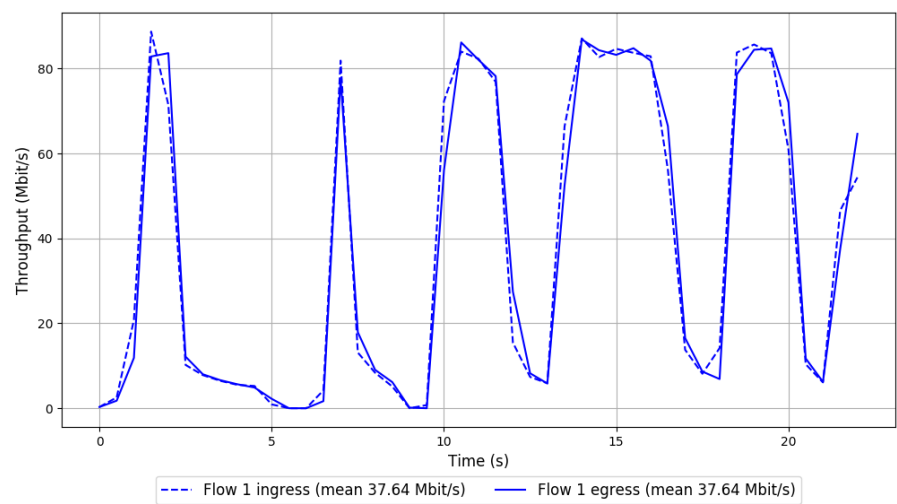


Run 5: Statistics of QUIC Cubic

Start at: 2018-01-16 10:54:09

End at: 2018-01-16 10:54:39

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-01-16 11:07:56

End at: 2018-01-16 11:08:26

Below is generated by plot.py at 2018-01-16 13:43:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 52.12 Mbit/s

95th percentile per-packet one-way delay: 115.364 ms

Loss rate: 0.15%

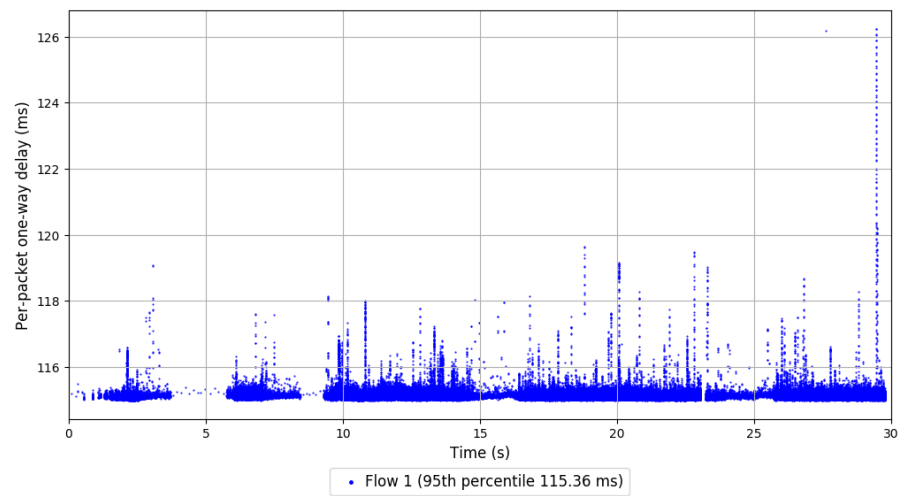
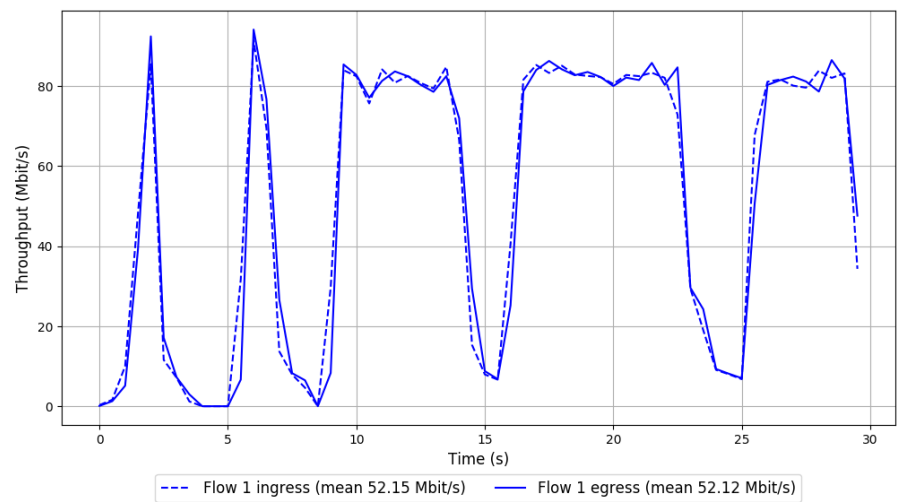
-- Flow 1:

Average throughput: 52.12 Mbit/s

95th percentile per-packet one-way delay: 115.364 ms

Loss rate: 0.15%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-01-16 11:21:45

End at: 2018-01-16 11:22:15

Below is generated by plot.py at 2018-01-16 13:43:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 52.64 Mbit/s

95th percentile per-packet one-way delay: 115.211 ms

Loss rate: 0.11%

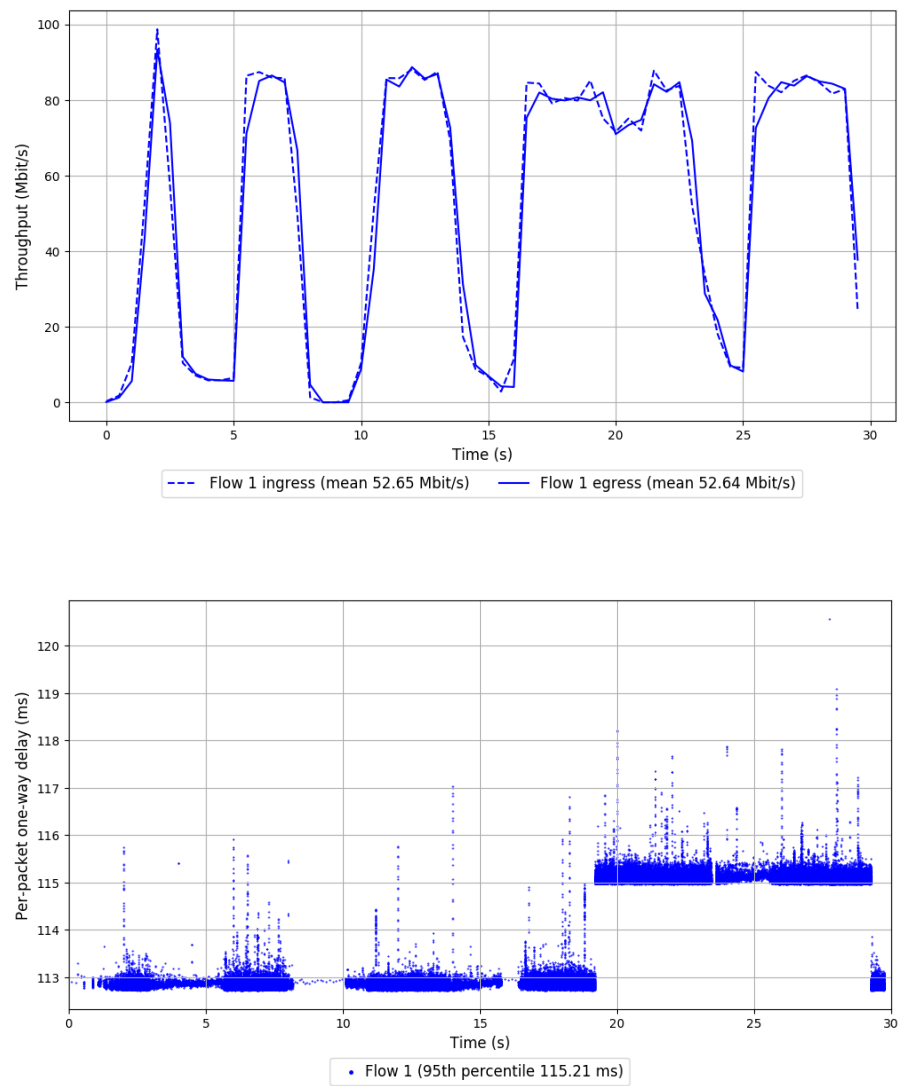
-- Flow 1:

Average throughput: 52.64 Mbit/s

95th percentile per-packet one-way delay: 115.211 ms

Loss rate: 0.11%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-01-16 11:35:45

End at: 2018-01-16 11:36:15

Below is generated by plot.py at 2018-01-16 13:43:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 57.61 Mbit/s

95th percentile per-packet one-way delay: 86.825 ms

Loss rate: 0.00%

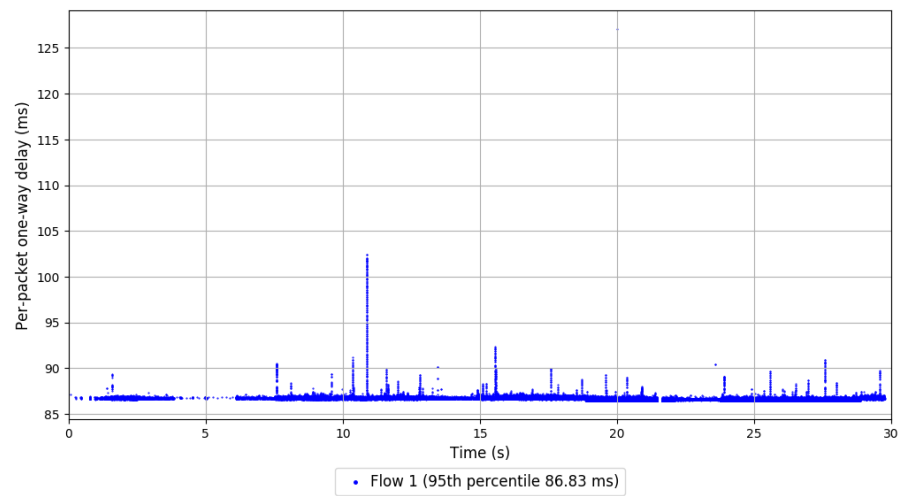
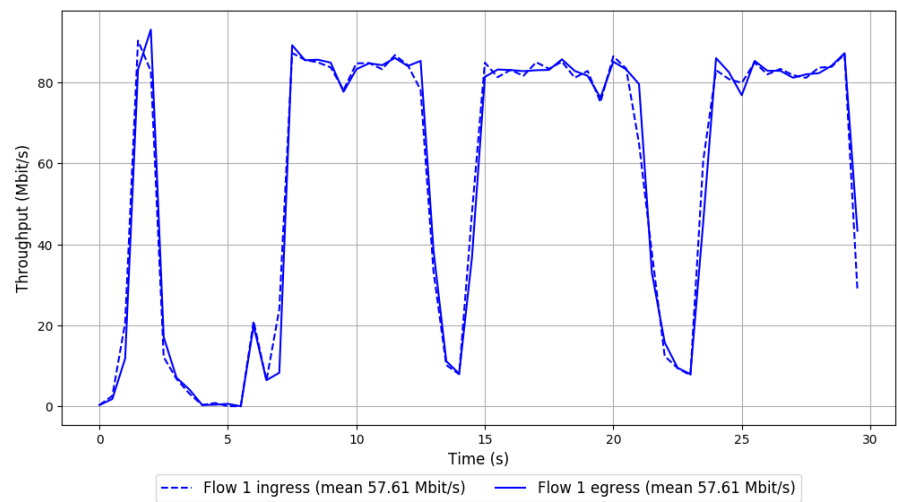
-- Flow 1:

Average throughput: 57.61 Mbit/s

95th percentile per-packet one-way delay: 86.825 ms

Loss rate: 0.00%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-01-16 11:50:30

End at: 2018-01-16 11:51:00

Below is generated by plot.py at 2018-01-16 13:43:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 41.25 Mbit/s

95th percentile per-packet one-way delay: 87.120 ms

Loss rate: 0.00%

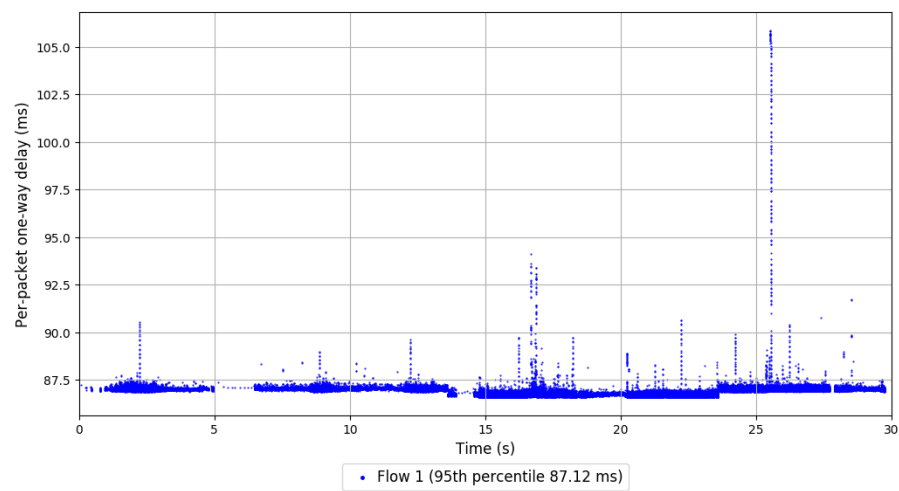
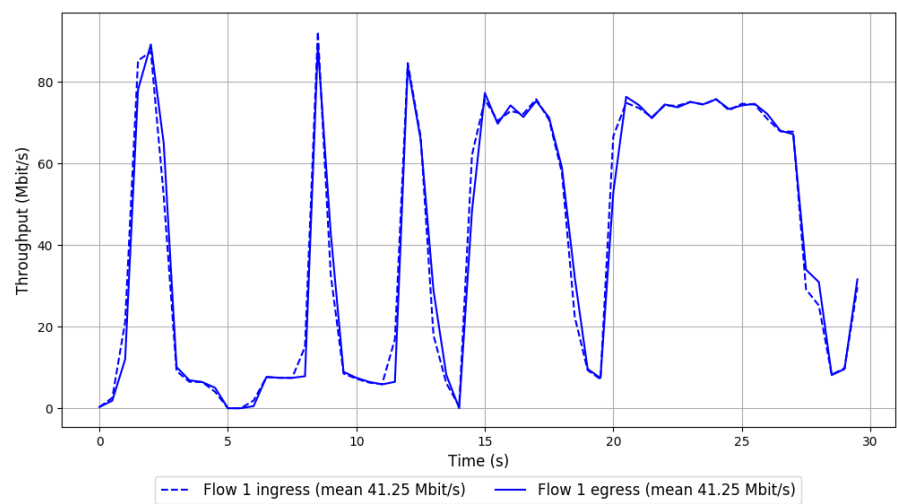
-- Flow 1:

Average throughput: 41.25 Mbit/s

95th percentile per-packet one-way delay: 87.120 ms

Loss rate: 0.00%

Run 9: Report of QUIC Cubic — Data Link

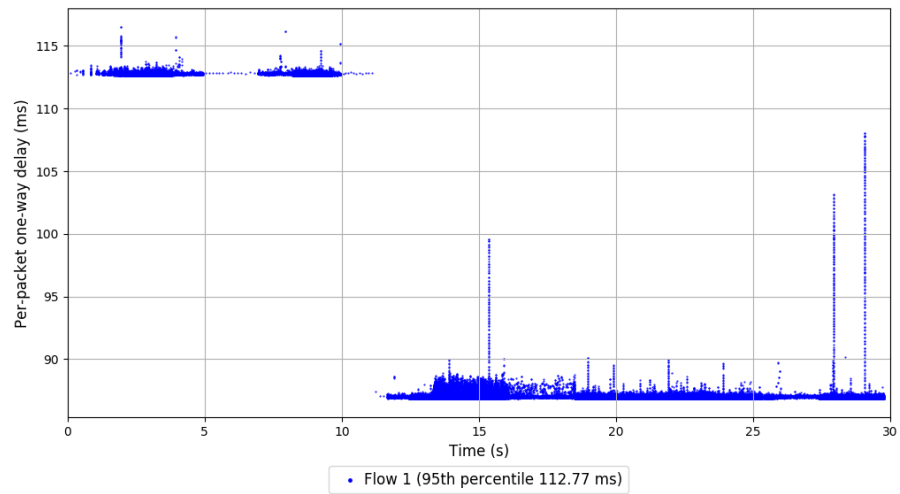
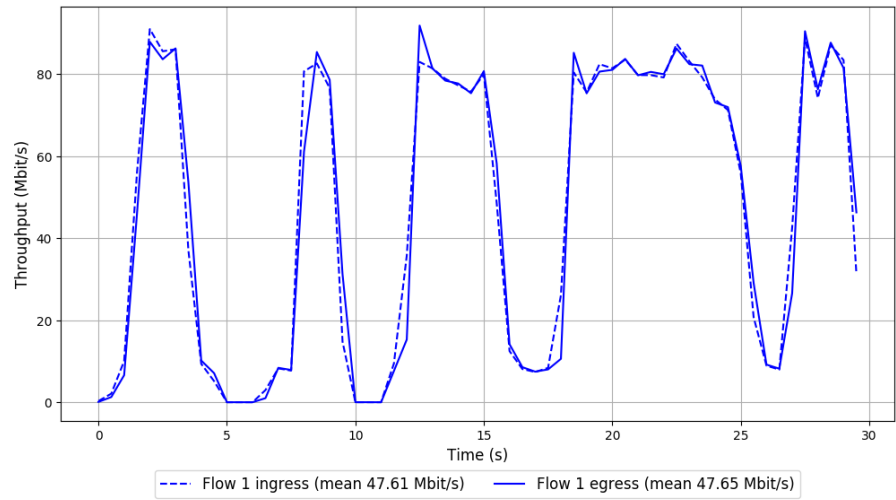


```
Run 10: Statistics of QUIC Cubic

Start at: 2018-01-16 12:04:13
End at: 2018-01-16 12:04:43

# Below is generated by plot.py at 2018-01-16 13:43:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 47.65 Mbit/s
95th percentile per-packet one-way delay: 112.768 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 47.65 Mbit/s
95th percentile per-packet one-way delay: 112.768 ms
Loss rate: 0.00%
```

Run 10: Report of QUIC Cubic — Data Link

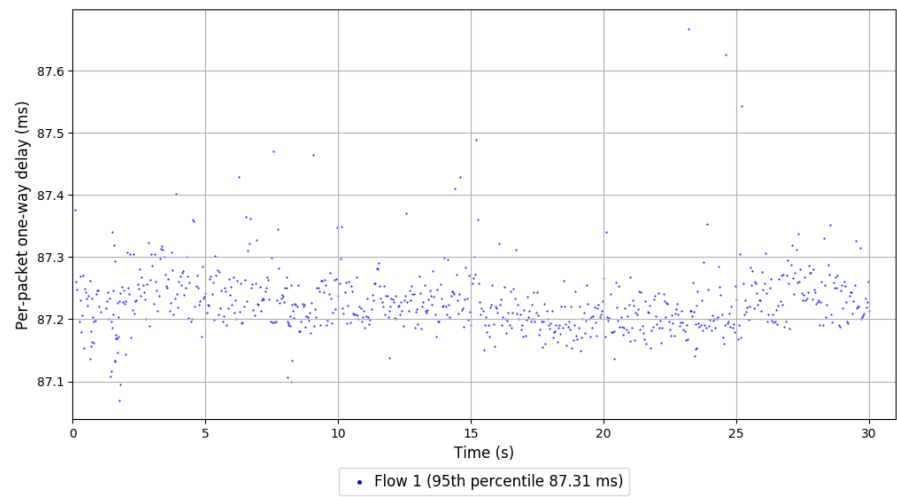
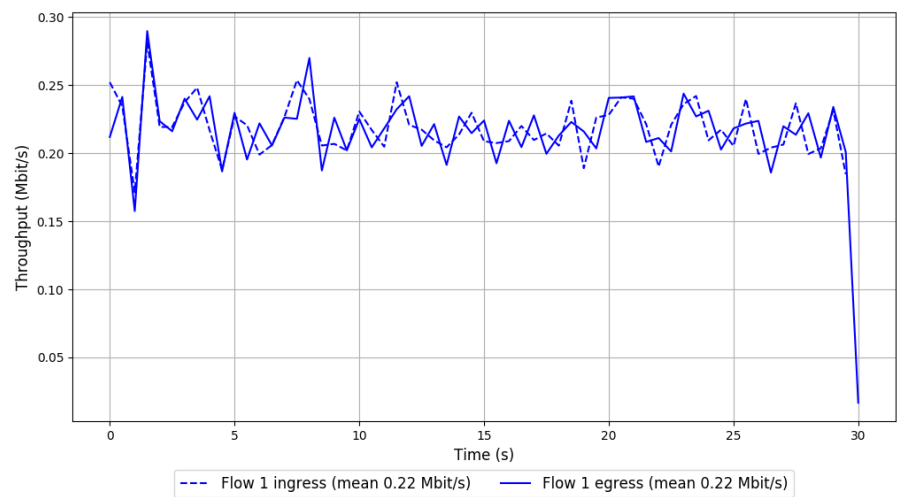


```
Run 1: Statistics of SCReAM

Start at: 2018-01-16 10:00:29
End at: 2018-01-16 10:00:59

# Below is generated by plot.py at 2018-01-16 13:43:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.310 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.310 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

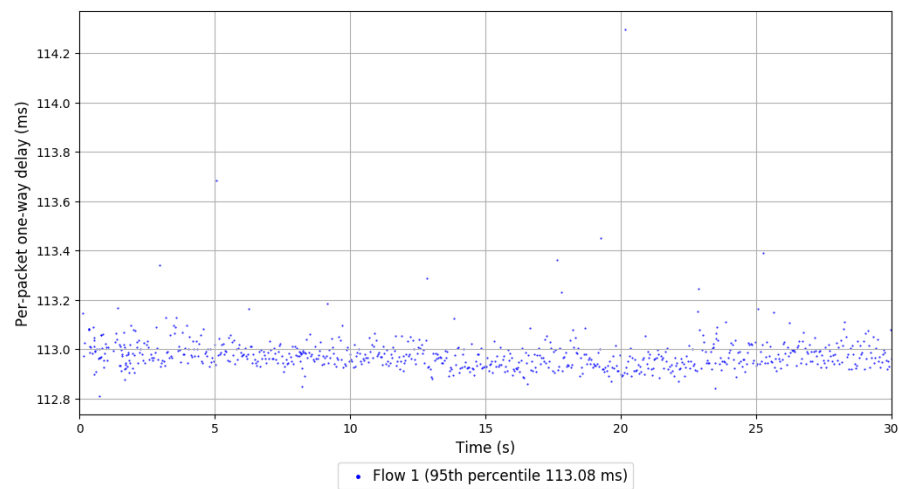
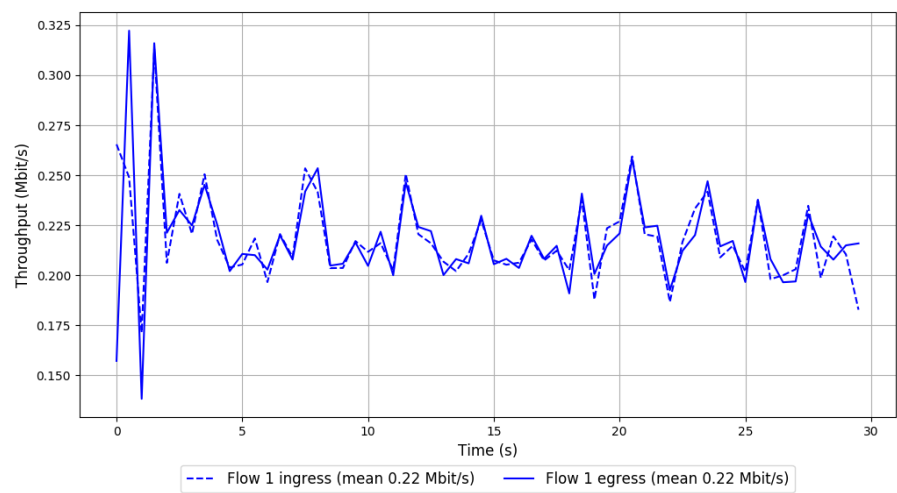


```
Run 2: Statistics of SCReAM

Start at: 2018-01-16 10:14:01
End at: 2018-01-16 10:14:31

# Below is generated by plot.py at 2018-01-16 13:43:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 113.078 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 113.078 ms
Loss rate: 0.12%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-01-16 10:28:14

End at: 2018-01-16 10:28:44

Below is generated by plot.py at 2018-01-16 13:43:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 115.484 ms

Loss rate: 0.13%

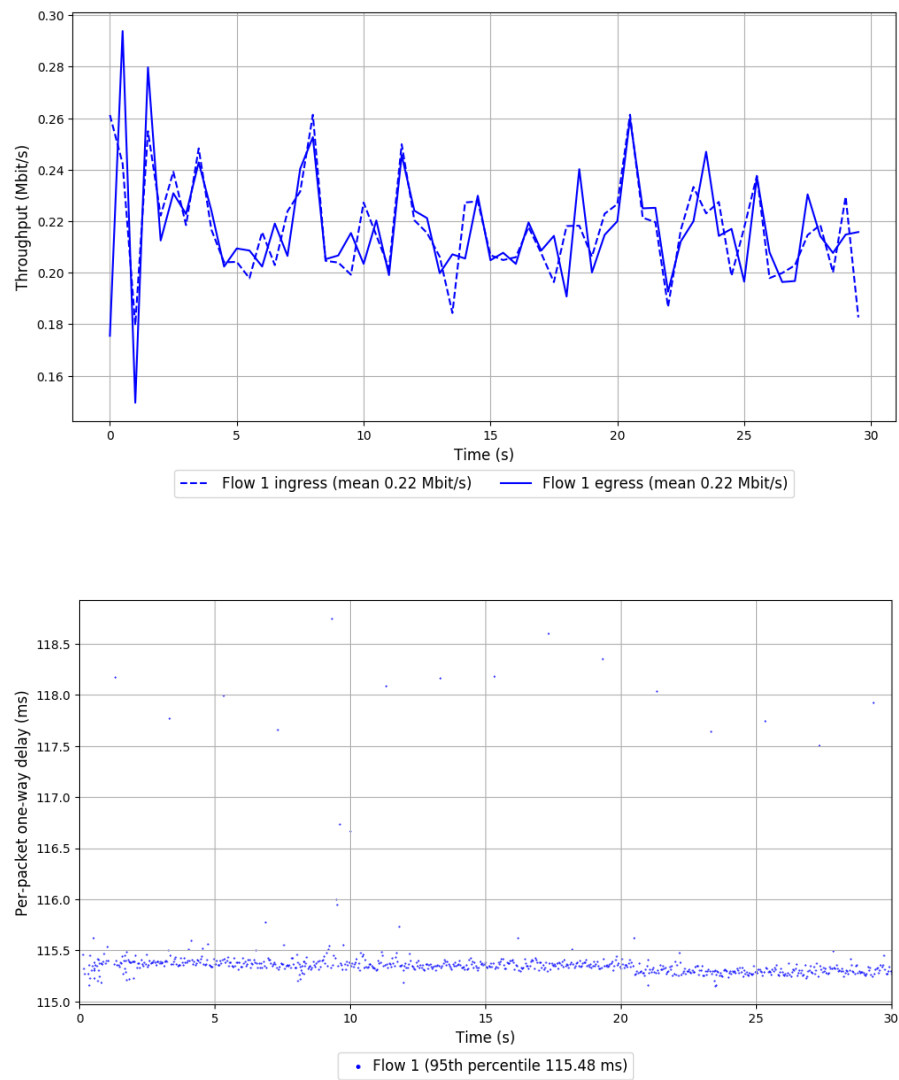
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 115.484 ms

Loss rate: 0.13%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2018-01-16 10:42:15

End at: 2018-01-16 10:42:45

Below is generated by plot.py at 2018-01-16 13:43:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 115.431 ms

Loss rate: 0.13%

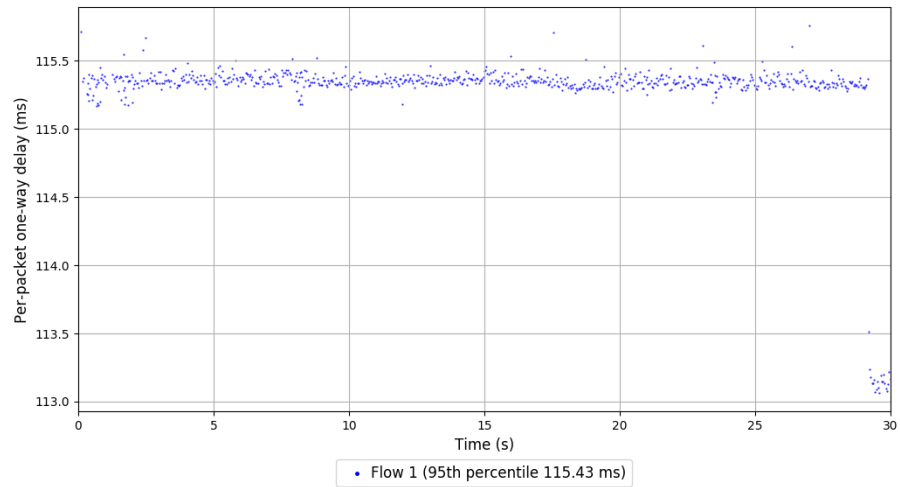
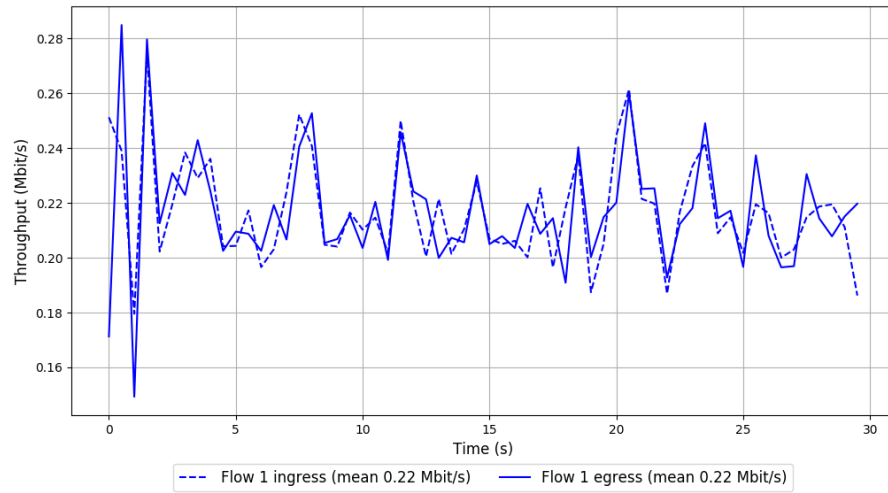
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 115.431 ms

Loss rate: 0.13%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-01-16 10:56:22

End at: 2018-01-16 10:56:52

Below is generated by plot.py at 2018-01-16 13:43:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 87.368 ms

Loss rate: 0.00%

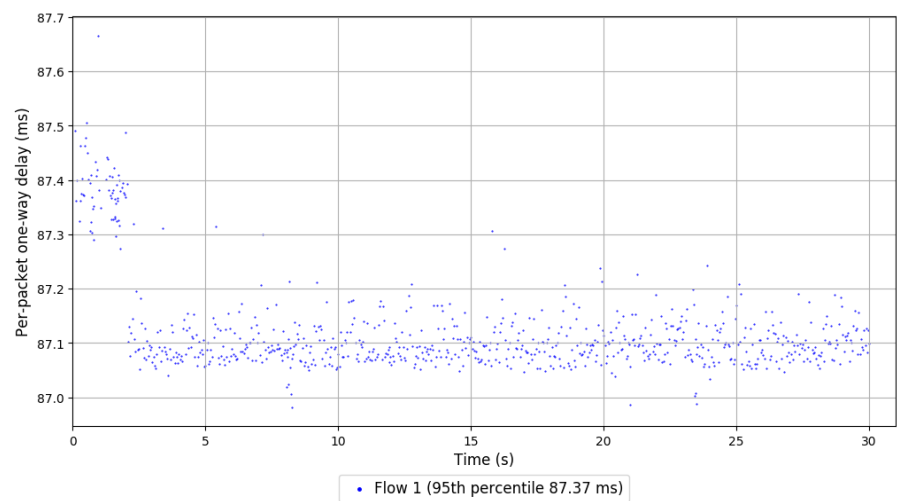
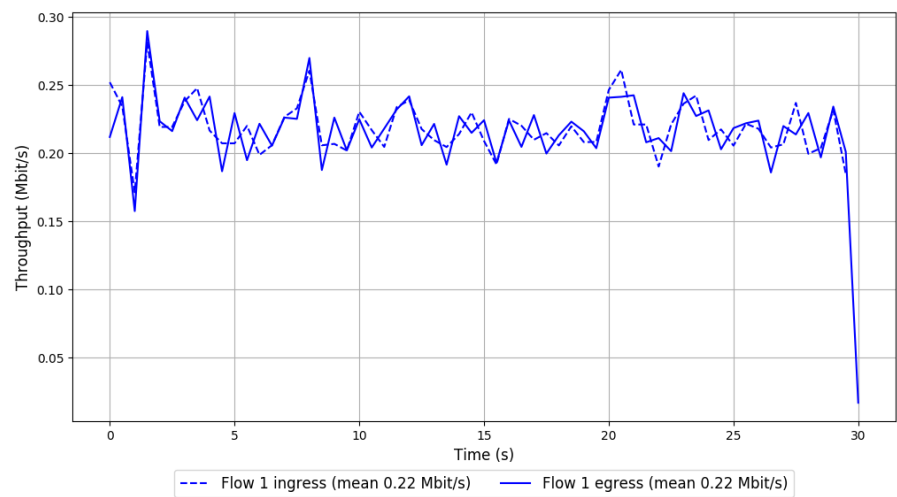
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 87.368 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link

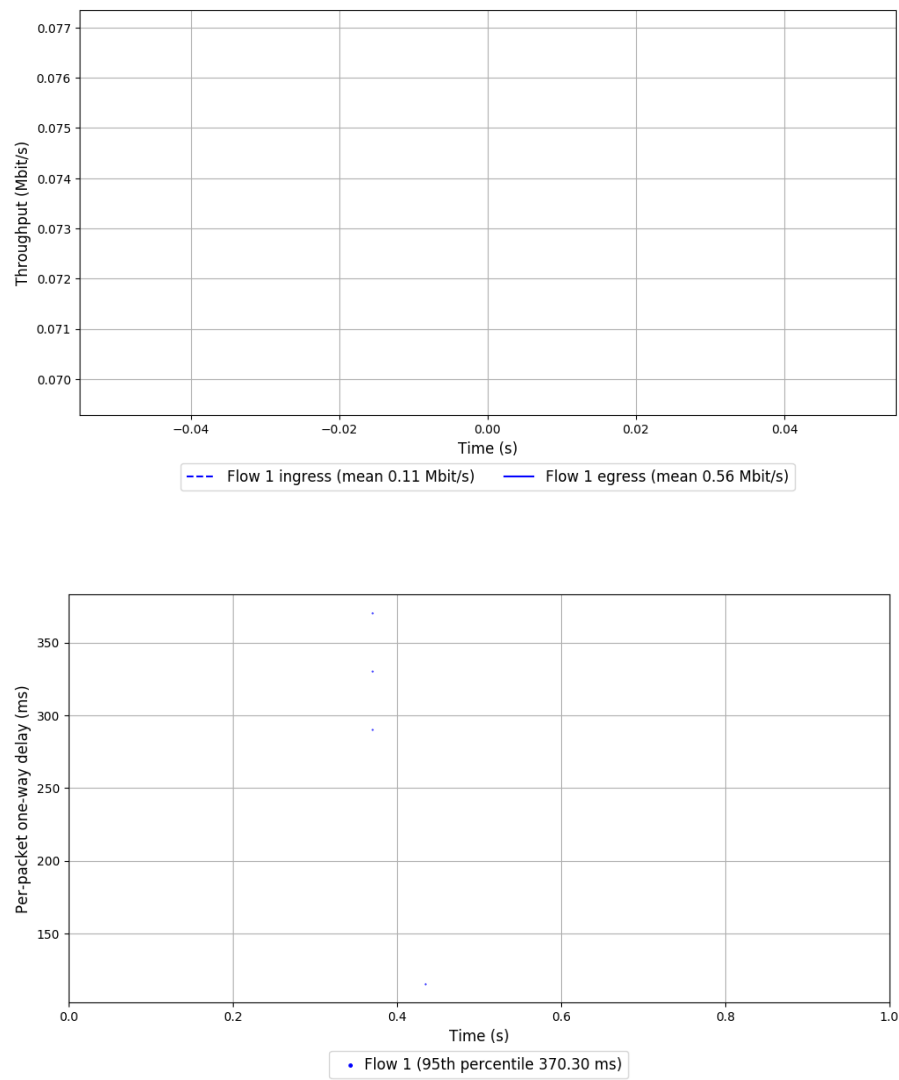


Run 6: Statistics of SReAM

Start at: 2018-01-16 11:10:14

End at: 2018-01-16 11:10:44

Run 6: Report of SReAM — Data Link

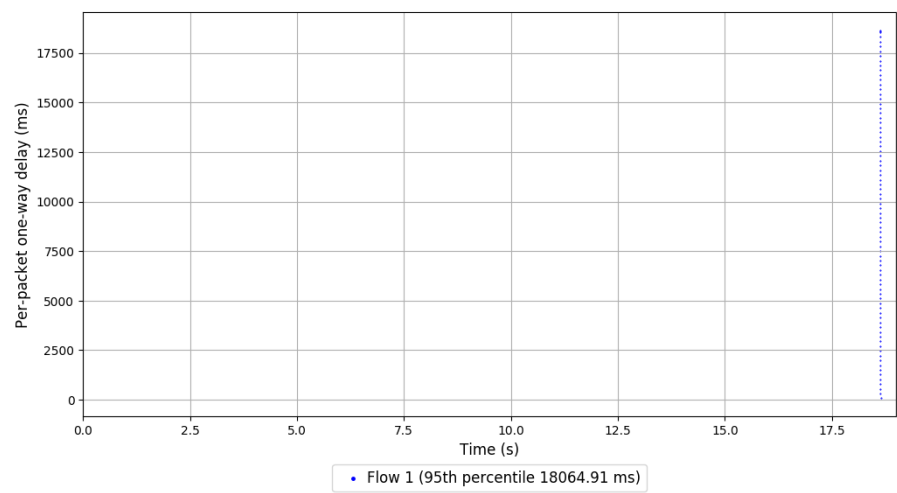
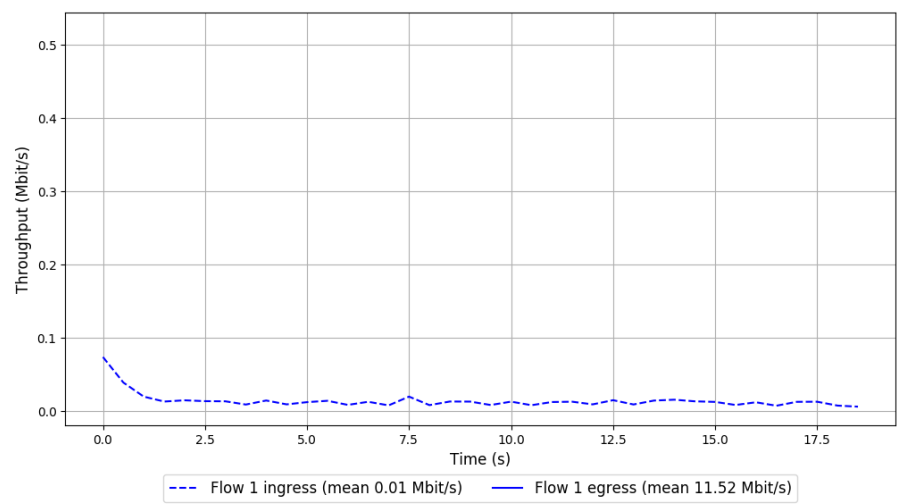


Run 7: Statistics of SReAM

Start at: 2018-01-16 11:24:06

End at: 2018-01-16 11:24:36

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-01-16 11:38:06

End at: 2018-01-16 11:38:36

Below is generated by plot.py at 2018-01-16 13:43:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.845 ms

Loss rate: 0.00%

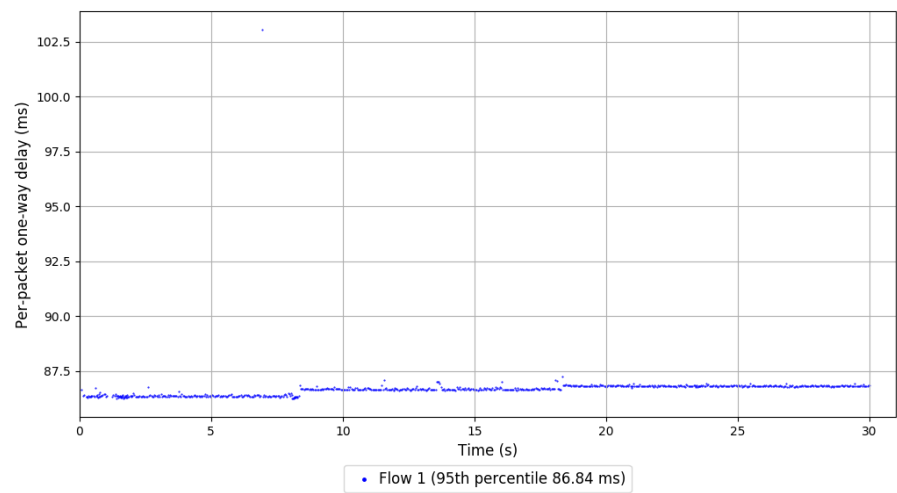
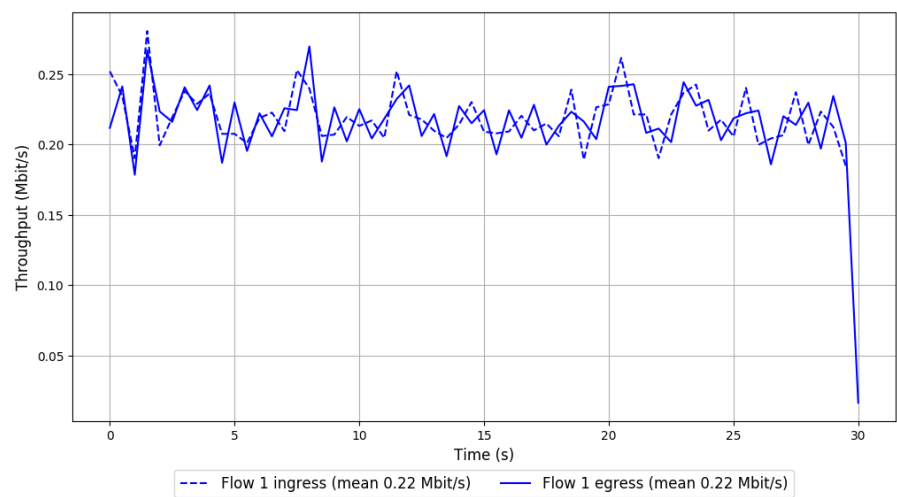
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.845 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-01-16 11:52:46

End at: 2018-01-16 11:53:17

Below is generated by plot.py at 2018-01-16 13:43:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 115.147 ms

Loss rate: 0.00%

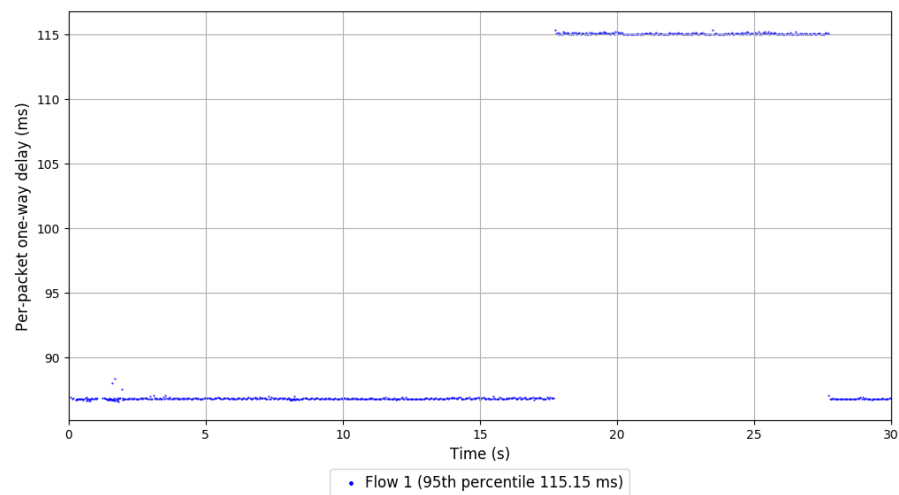
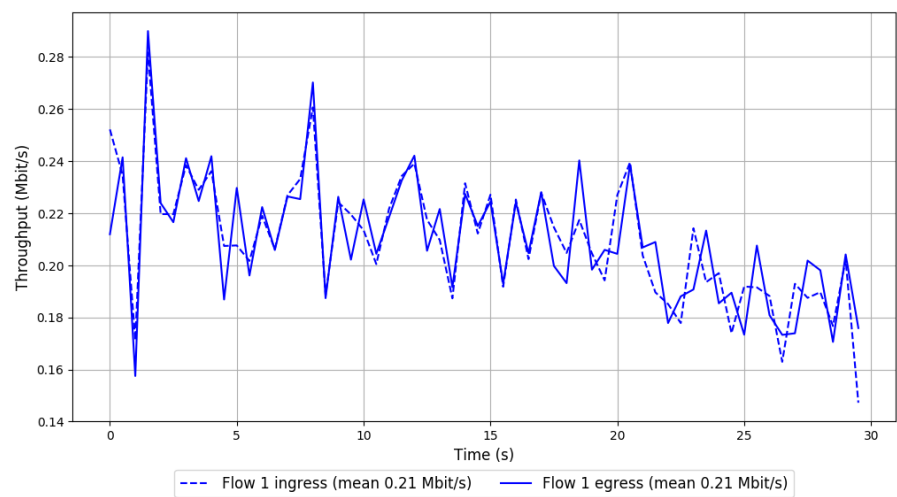
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 115.147 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-01-16 12:06:31

End at: 2018-01-16 12:07:01

Below is generated by plot.py at 2018-01-16 13:43:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.17 Mbit/s

95th percentile per-packet one-way delay: 114.662 ms

Loss rate: 0.00%

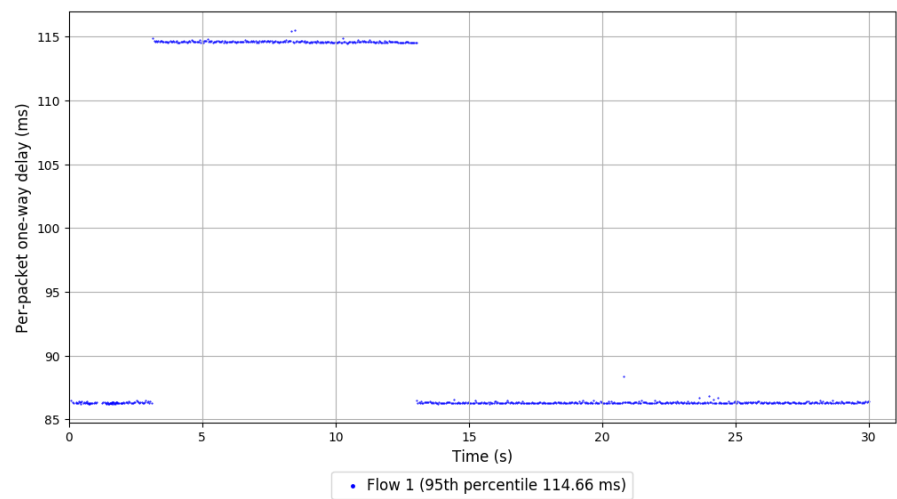
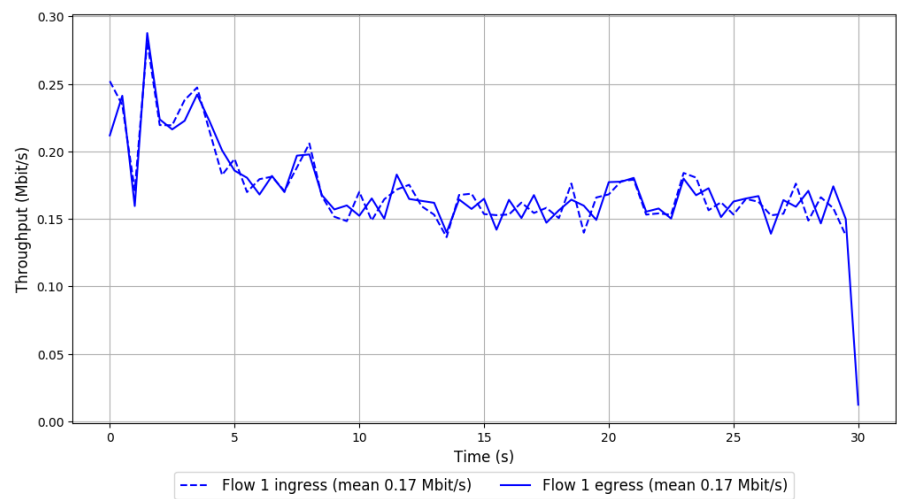
-- Flow 1:

Average throughput: 0.17 Mbit/s

95th percentile per-packet one-way delay: 114.662 ms

Loss rate: 0.00%

Run 10: Report of SReAM — Data Link

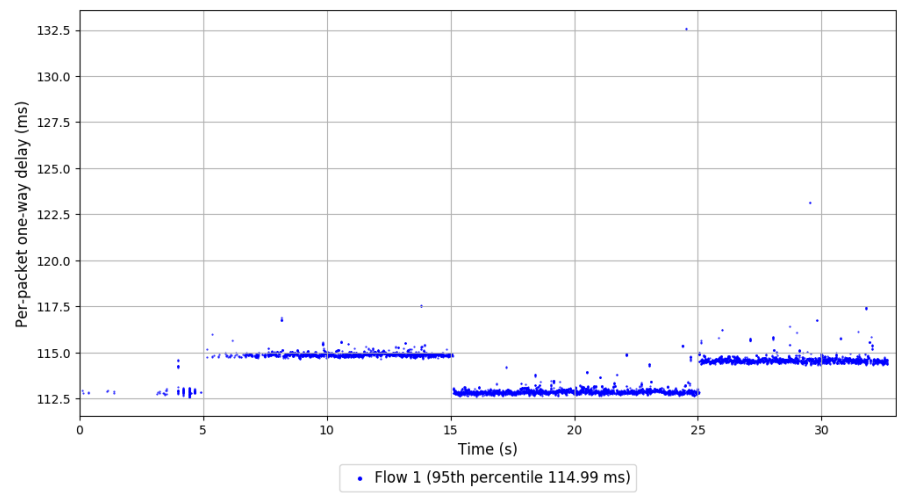
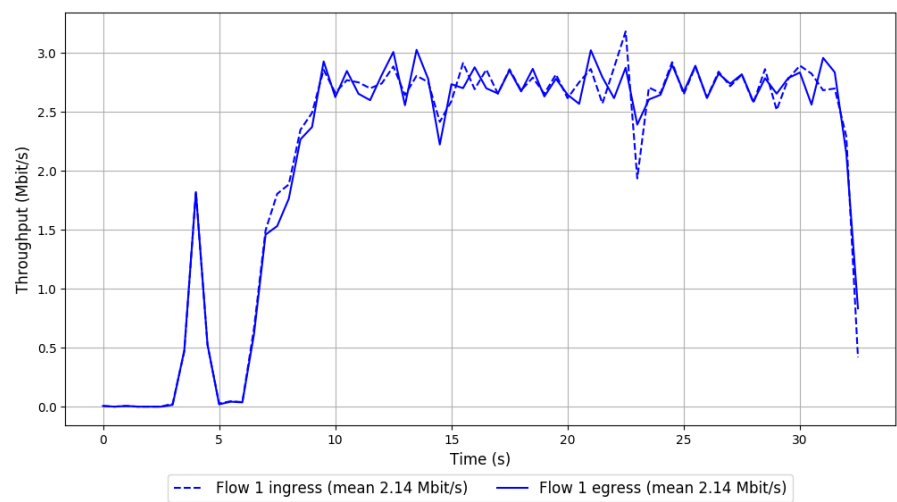


```
Run 1: Statistics of WebRTC media

Start at: 2018-01-16 09:53:52
End at: 2018-01-16 09:54:22

# Below is generated by plot.py at 2018-01-16 13:43:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.14 Mbit/s
95th percentile per-packet one-way delay: 114.991 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 2.14 Mbit/s
95th percentile per-packet one-way delay: 114.991 ms
Loss rate: 0.15%
```


Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-01-16 10:07:21

End at: 2018-01-16 10:07:51

Below is generated by plot.py at 2018-01-16 13:43:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 115.231 ms

Loss rate: 0.11%

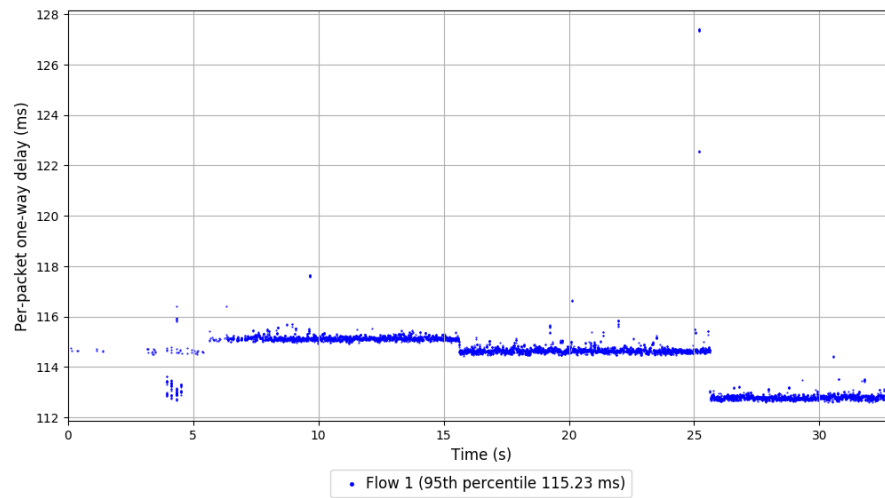
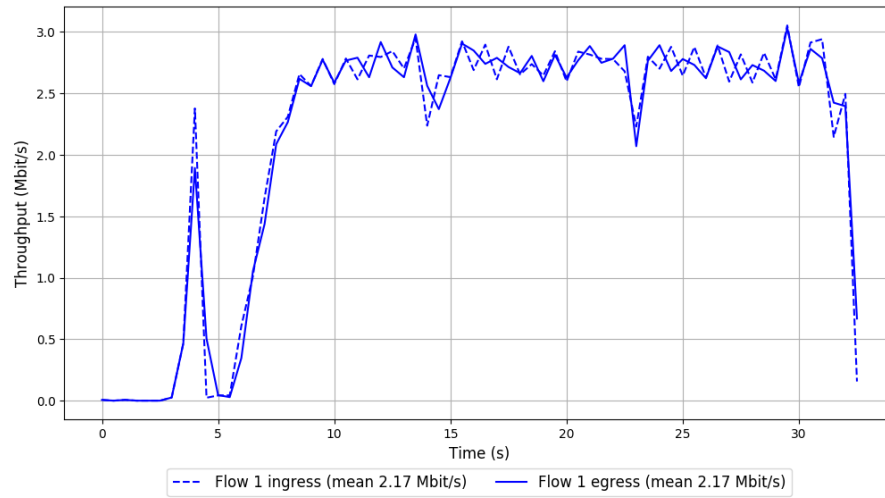
-- Flow 1:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 115.231 ms

Loss rate: 0.11%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-01-16 10:21:27

End at: 2018-01-16 10:21:57

Below is generated by plot.py at 2018-01-16 13:43:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.18 Mbit/s

95th percentile per-packet one-way delay: 115.322 ms

Loss rate: 0.15%

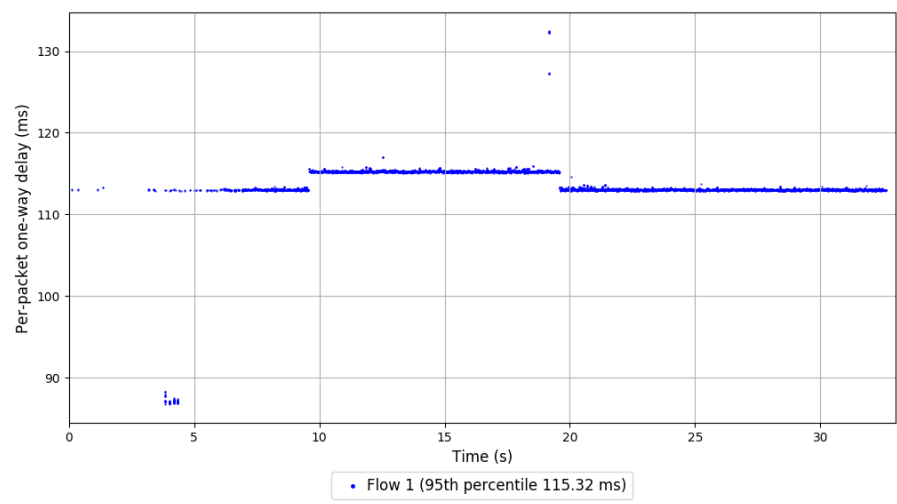
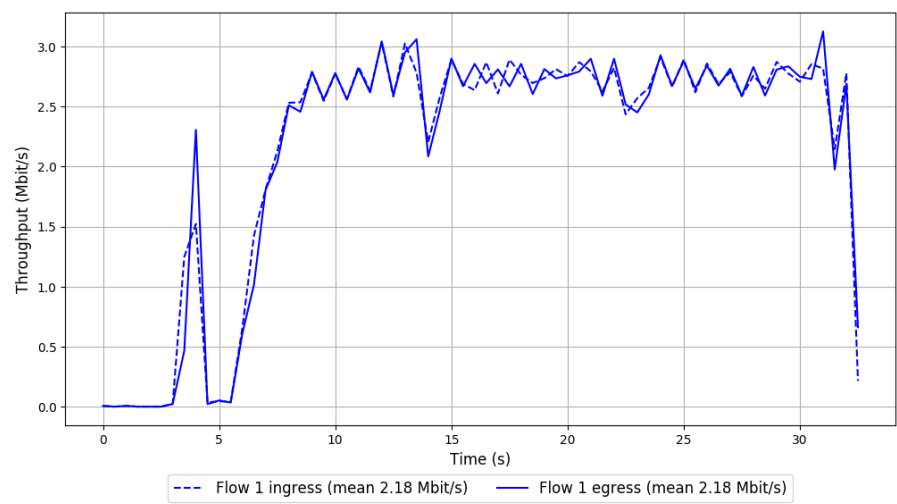
-- Flow 1:

Average throughput: 2.18 Mbit/s

95th percentile per-packet one-way delay: 115.322 ms

Loss rate: 0.15%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-01-16 10:35:18

End at: 2018-01-16 10:35:48

Below is generated by plot.py at 2018-01-16 13:43:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 115.484 ms

Loss rate: 0.16%

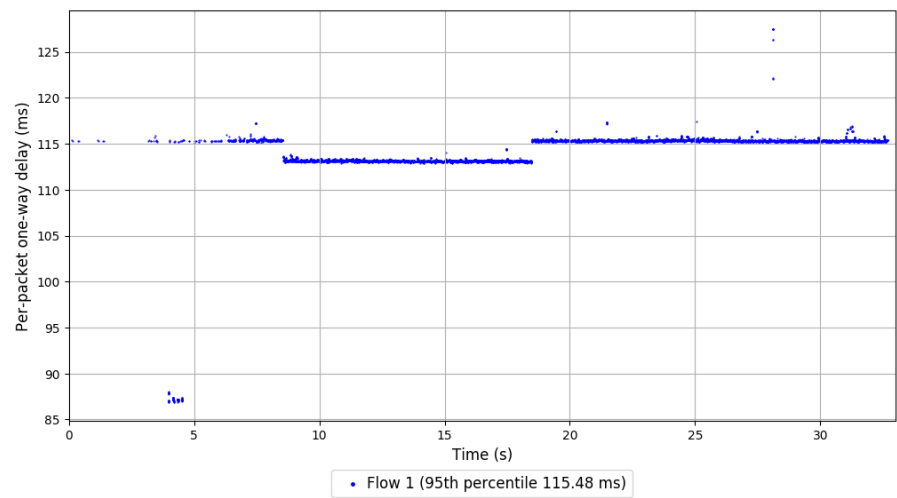
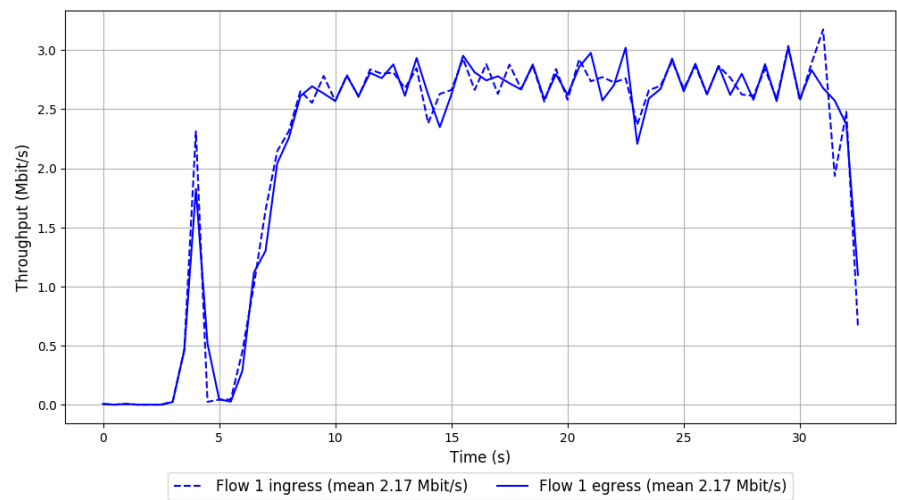
-- Flow 1:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 115.484 ms

Loss rate: 0.16%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-01-16 10:49:46

End at: 2018-01-16 10:50:16

Below is generated by plot.py at 2018-01-16 13:43:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.19 Mbit/s

95th percentile per-packet one-way delay: 87.547 ms

Loss rate: 0.00%

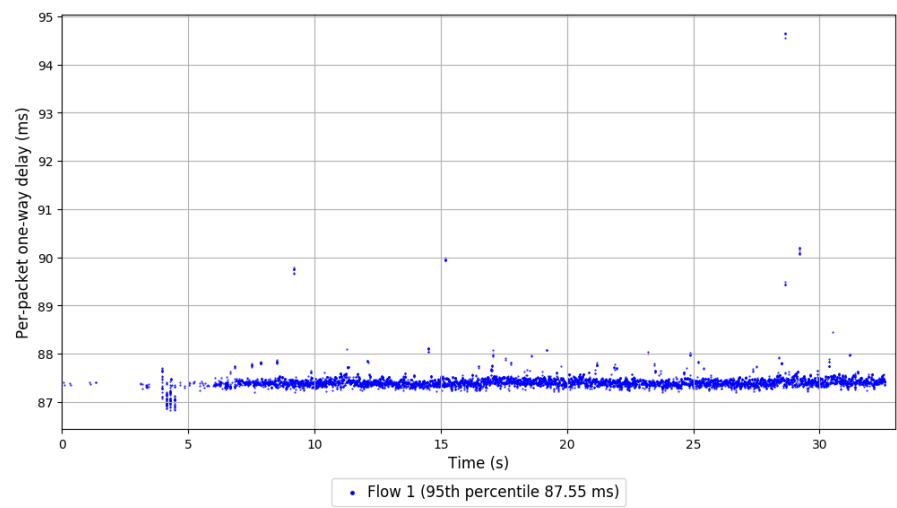
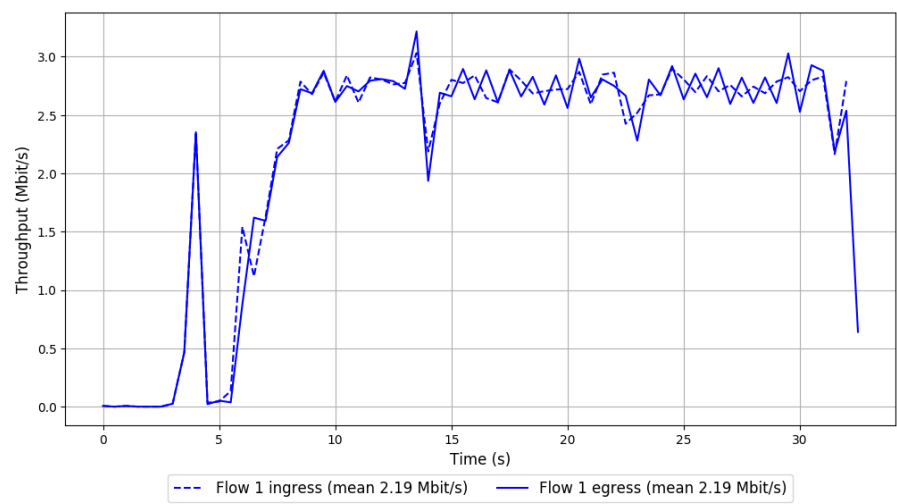
-- Flow 1:

Average throughput: 2.19 Mbit/s

95th percentile per-packet one-way delay: 87.547 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-01-16 11:03:36

End at: 2018-01-16 11:04:06

Below is generated by plot.py at 2018-01-16 13:43:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 115.332 ms

Loss rate: 0.00%

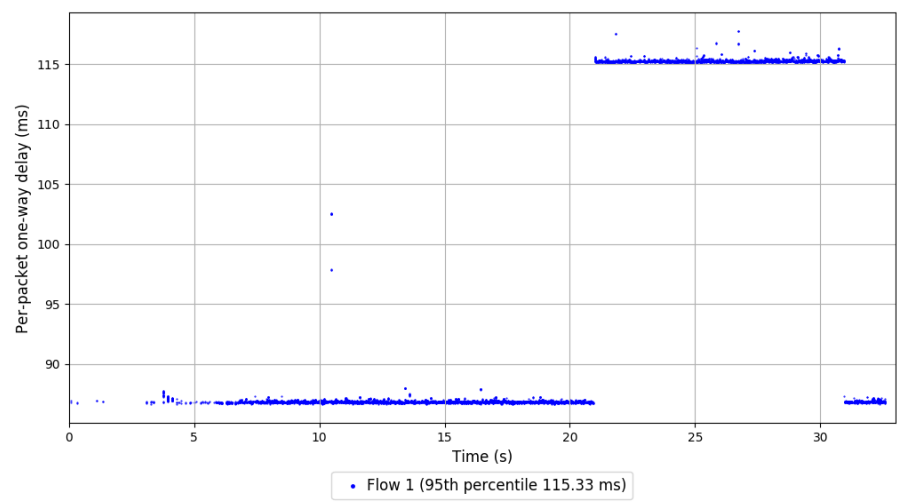
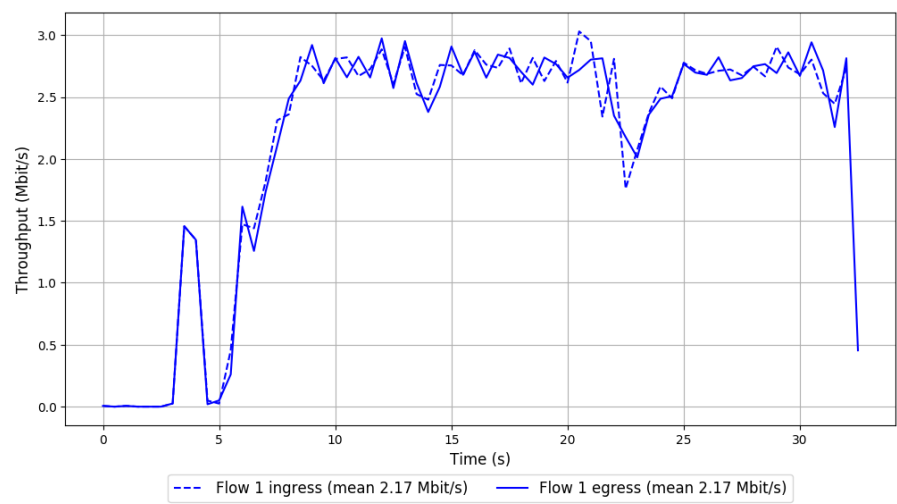
-- Flow 1:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 115.332 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-01-16 11:17:27

End at: 2018-01-16 11:17:57

Below is generated by plot.py at 2018-01-16 13:43:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.18 Mbit/s

95th percentile per-packet one-way delay: 115.411 ms

Loss rate: 0.15%

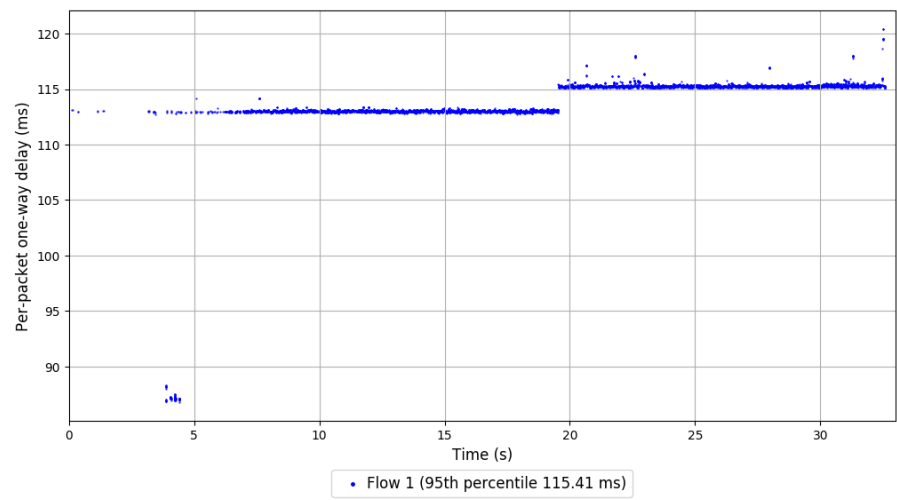
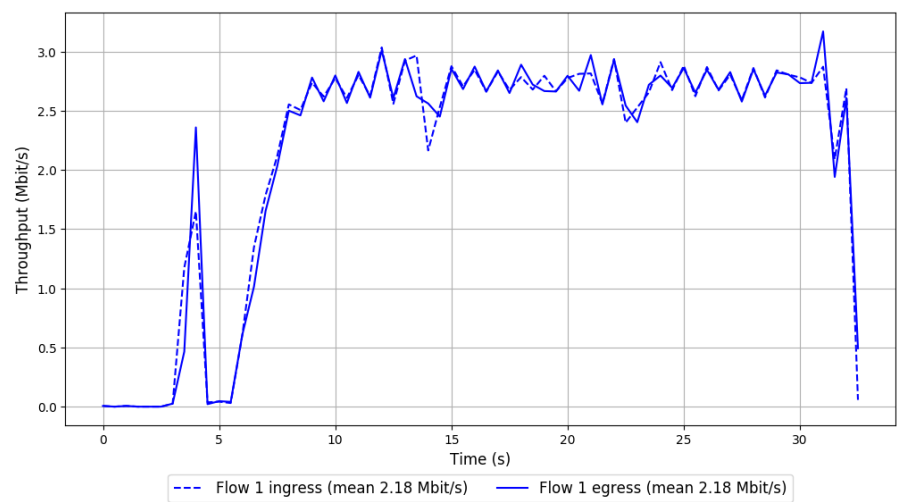
-- Flow 1:

Average throughput: 2.18 Mbit/s

95th percentile per-packet one-way delay: 115.411 ms

Loss rate: 0.15%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-01-16 11:31:25

End at: 2018-01-16 11:31:55

Below is generated by plot.py at 2018-01-16 13:43:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.18 Mbit/s

95th percentile per-packet one-way delay: 115.295 ms

Loss rate: 0.15%

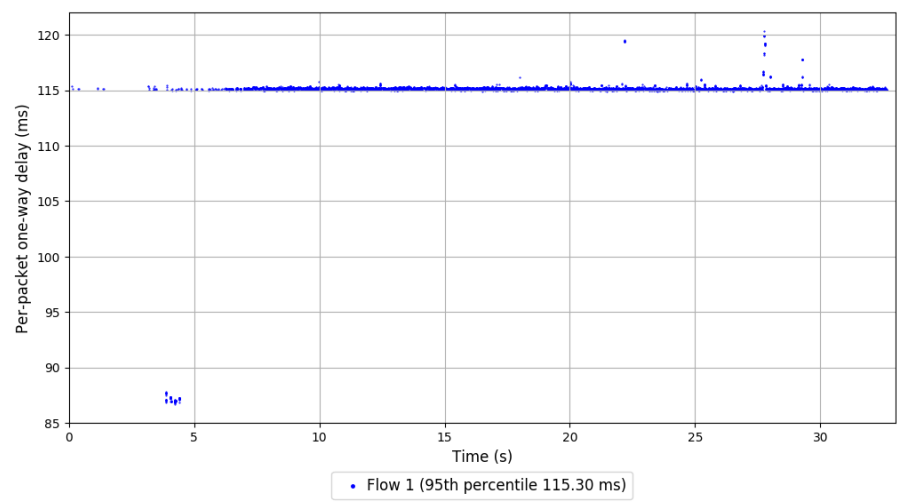
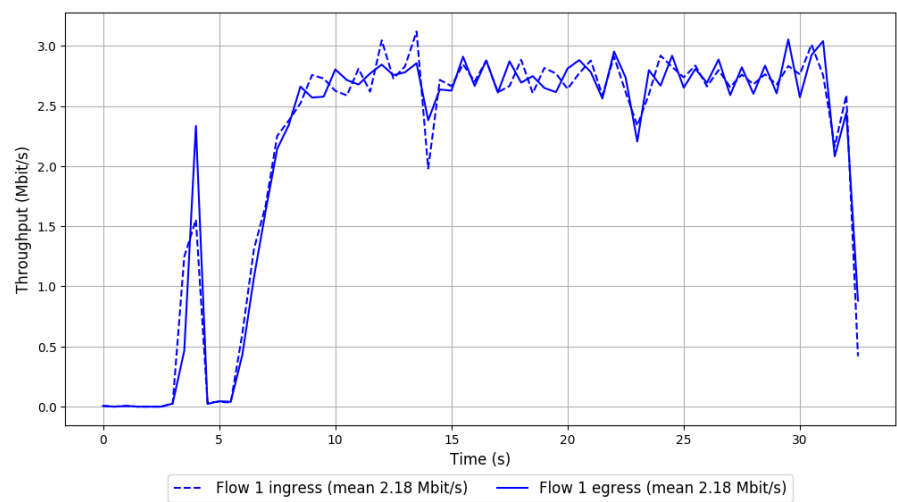
-- Flow 1:

Average throughput: 2.18 Mbit/s

95th percentile per-packet one-way delay: 115.295 ms

Loss rate: 0.15%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-01-16 11:45:51

End at: 2018-01-16 11:46:21

Below is generated by plot.py at 2018-01-16 13:43:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.33 Mbit/s

95th percentile per-packet one-way delay: 86.513 ms

Loss rate: 0.00%

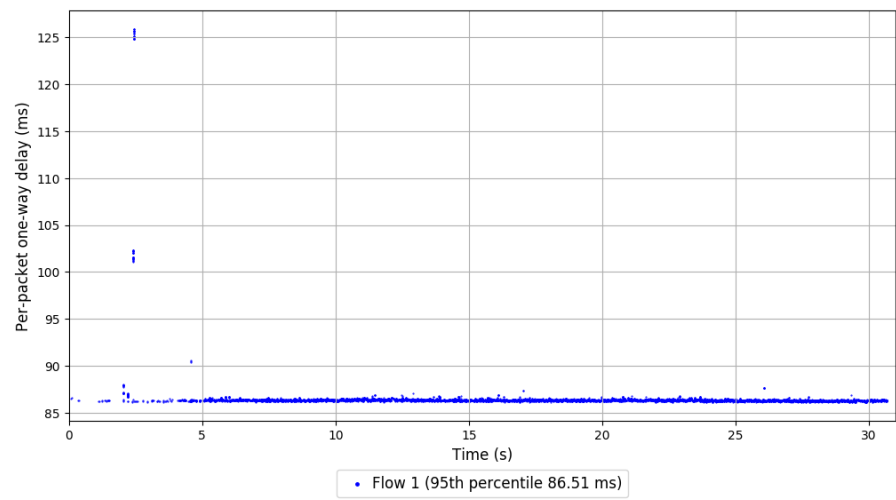
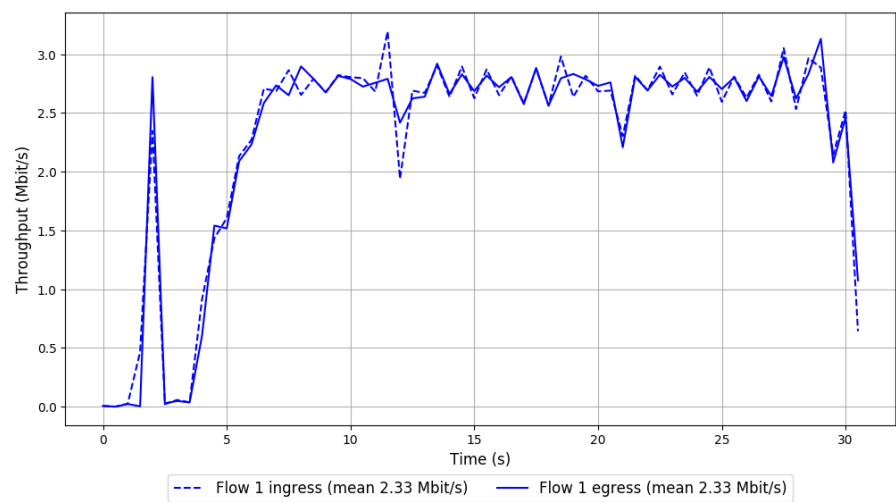
-- Flow 1:

Average throughput: 2.33 Mbit/s

95th percentile per-packet one-way delay: 86.513 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-01-16 11:59:51

End at: 2018-01-16 12:00:21

Below is generated by plot.py at 2018-01-16 13:43:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.13 Mbit/s

95th percentile per-packet one-way delay: 113.079 ms

Loss rate: 0.12%

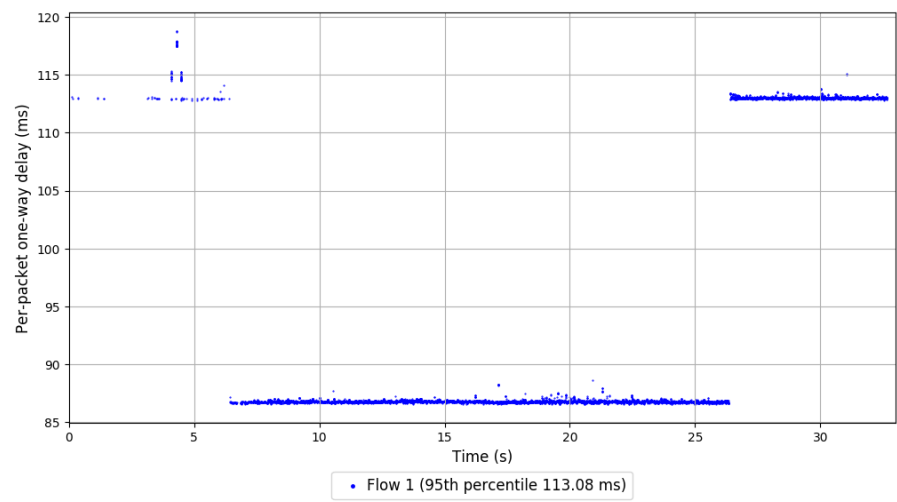
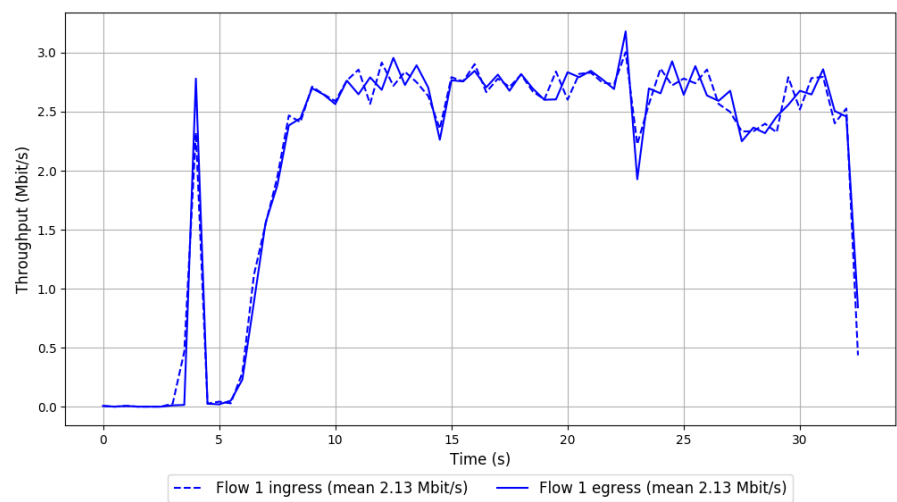
-- Flow 1:

Average throughput: 2.13 Mbit/s

95th percentile per-packet one-way delay: 113.079 ms

Loss rate: 0.12%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2018-01-16 09:55:53

End at: 2018-01-16 09:56:23

Below is generated by plot.py at 2018-01-16 13:43:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.94 Mbit/s

95th percentile per-packet one-way delay: 113.640 ms

Loss rate: 0.00%

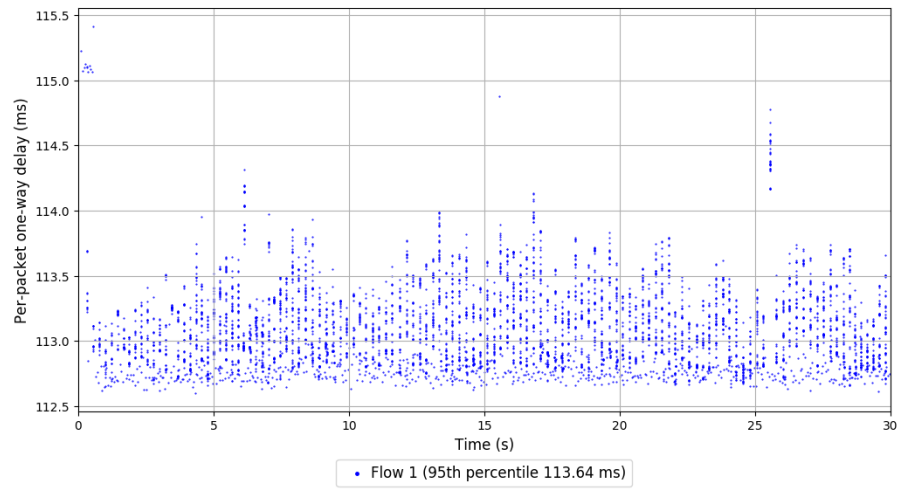
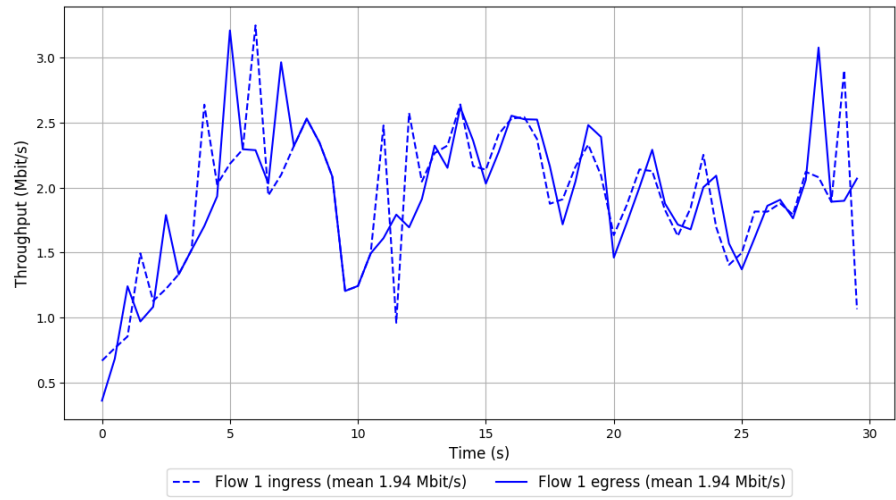
-- Flow 1:

Average throughput: 1.94 Mbit/s

95th percentile per-packet one-way delay: 113.640 ms

Loss rate: 0.00%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-01-16 10:09:21

End at: 2018-01-16 10:09:51

Below is generated by plot.py at 2018-01-16 13:43:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.16 Mbit/s

95th percentile per-packet one-way delay: 114.211 ms

Loss rate: 0.00%

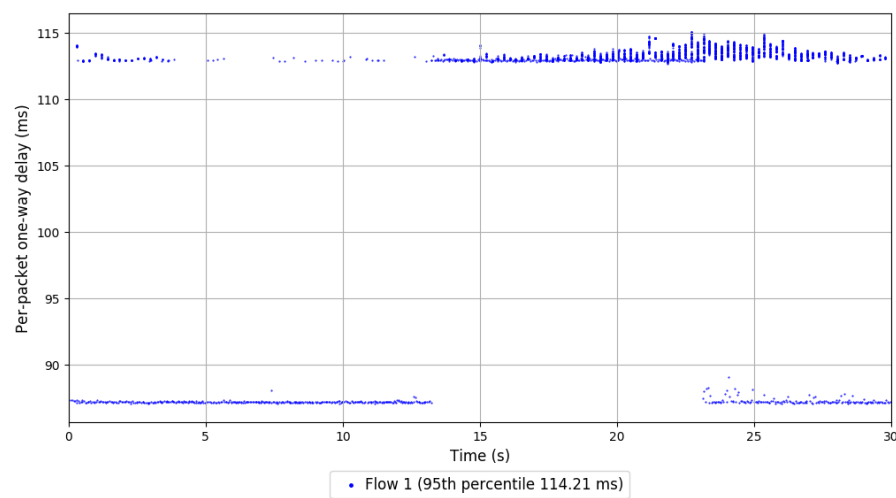
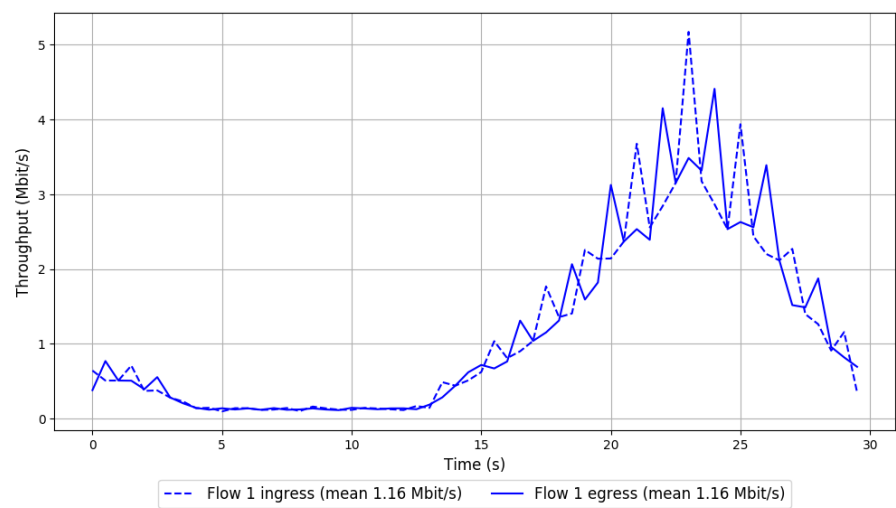
-- Flow 1:

Average throughput: 1.16 Mbit/s

95th percentile per-packet one-way delay: 114.211 ms

Loss rate: 0.00%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-01-16 10:23:36

End at: 2018-01-16 10:24:06

Below is generated by plot.py at 2018-01-16 13:43:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 113.001 ms

Loss rate: 0.21%

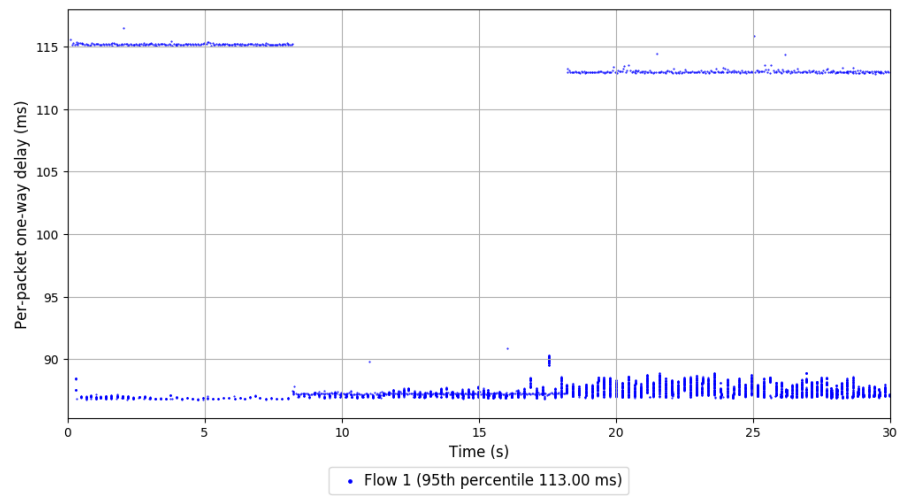
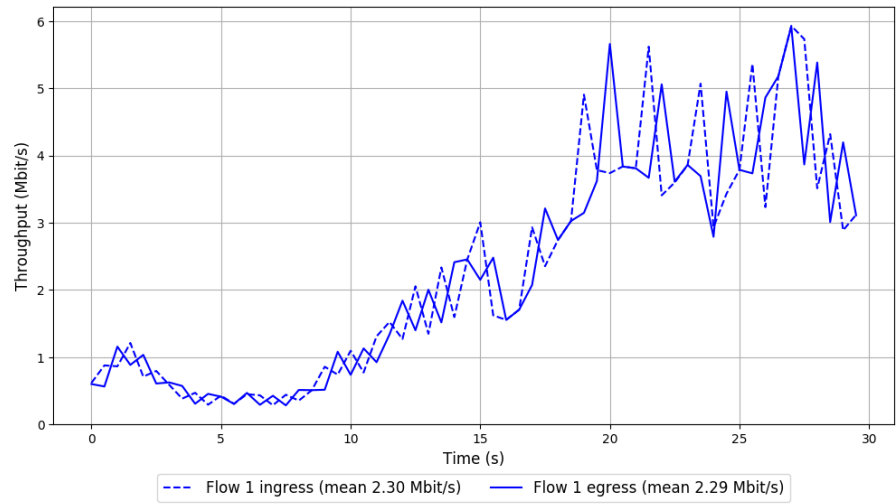
-- Flow 1:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 113.001 ms

Loss rate: 0.21%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-01-16 10:37:33

End at: 2018-01-16 10:38:03

Below is generated by plot.py at 2018-01-16 13:43:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.44 Mbit/s

95th percentile per-packet one-way delay: 88.203 ms

Loss rate: 0.04%

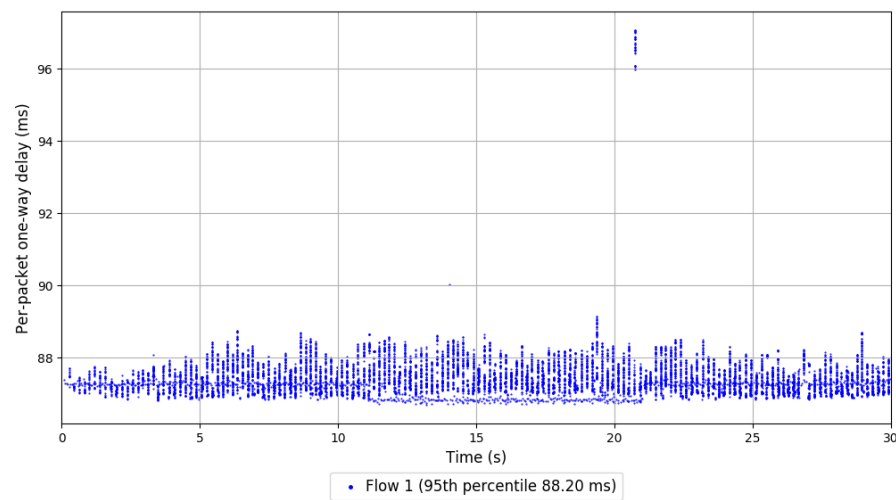
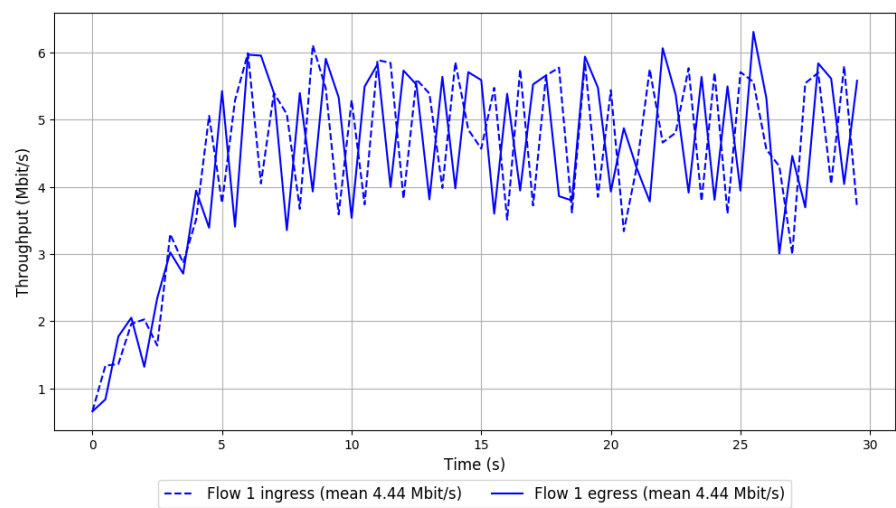
-- Flow 1:

Average throughput: 4.44 Mbit/s

95th percentile per-packet one-way delay: 88.203 ms

Loss rate: 0.04%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-01-16 10:51:46

End at: 2018-01-16 10:52:16

Below is generated by plot.py at 2018-01-16 13:43:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.30 Mbit/s

95th percentile per-packet one-way delay: 88.309 ms

Loss rate: 0.06%

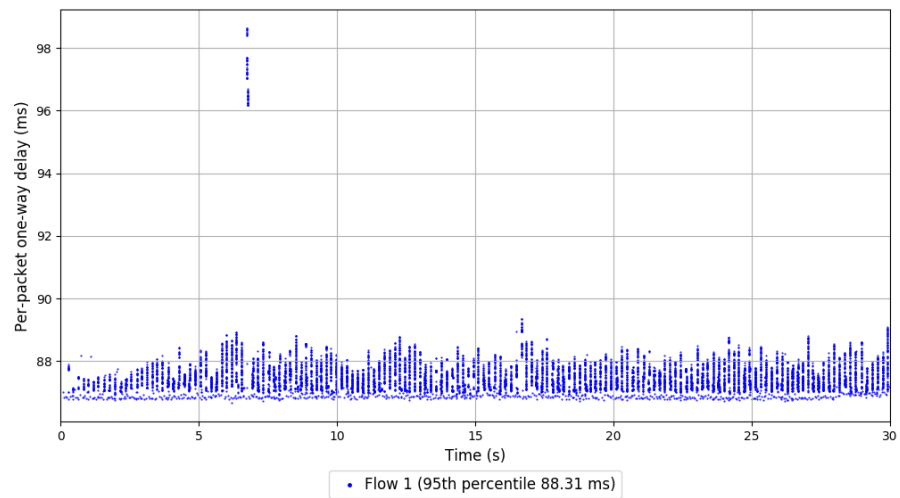
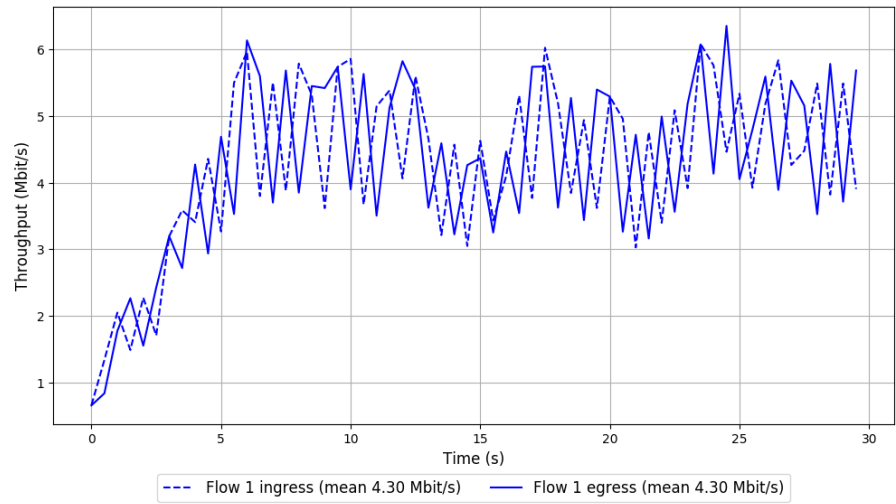
-- Flow 1:

Average throughput: 4.30 Mbit/s

95th percentile per-packet one-way delay: 88.309 ms

Loss rate: 0.06%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-01-16 11:05:48

End at: 2018-01-16 11:06:18

Below is generated by plot.py at 2018-01-16 13:43:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.29 Mbit/s

95th percentile per-packet one-way delay: 88.266 ms

Loss rate: 1.03%

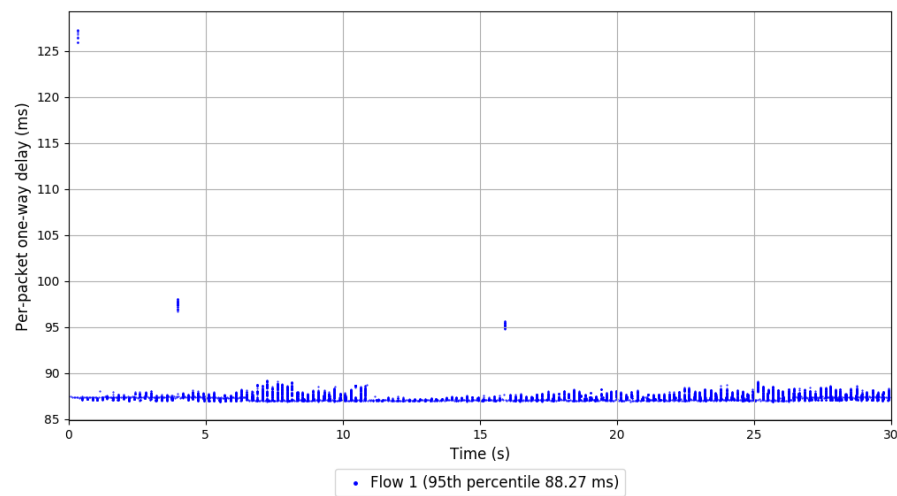
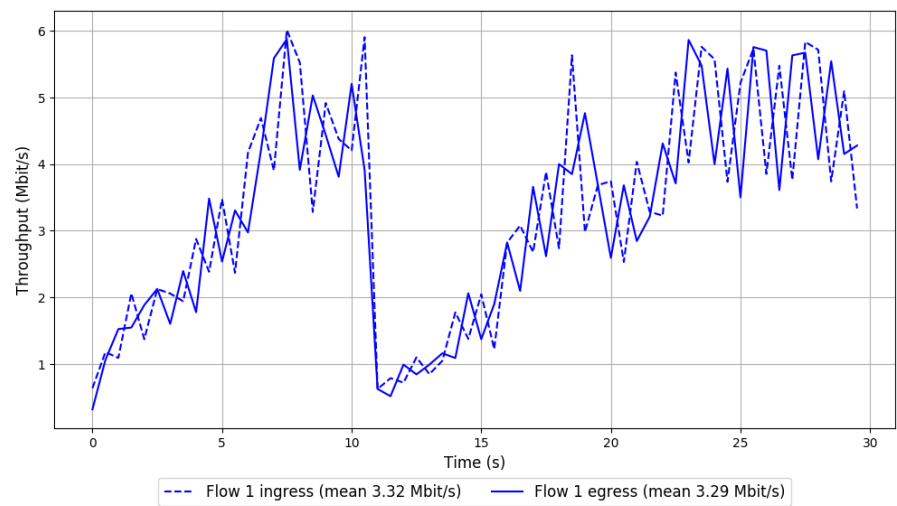
-- Flow 1:

Average throughput: 3.29 Mbit/s

95th percentile per-packet one-way delay: 88.266 ms

Loss rate: 1.03%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-01-16 11:19:27

End at: 2018-01-16 11:19:57

Below is generated by plot.py at 2018-01-16 13:43:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.33 Mbit/s

95th percentile per-packet one-way delay: 88.250 ms

Loss rate: 0.00%

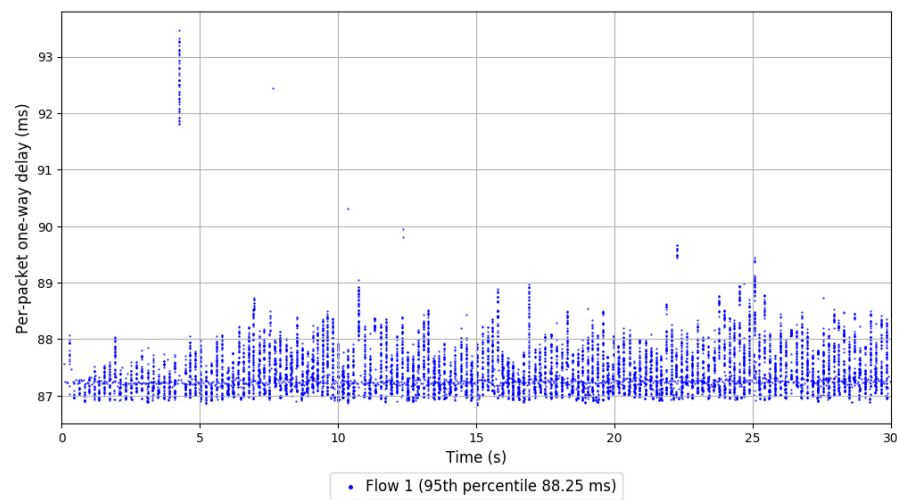
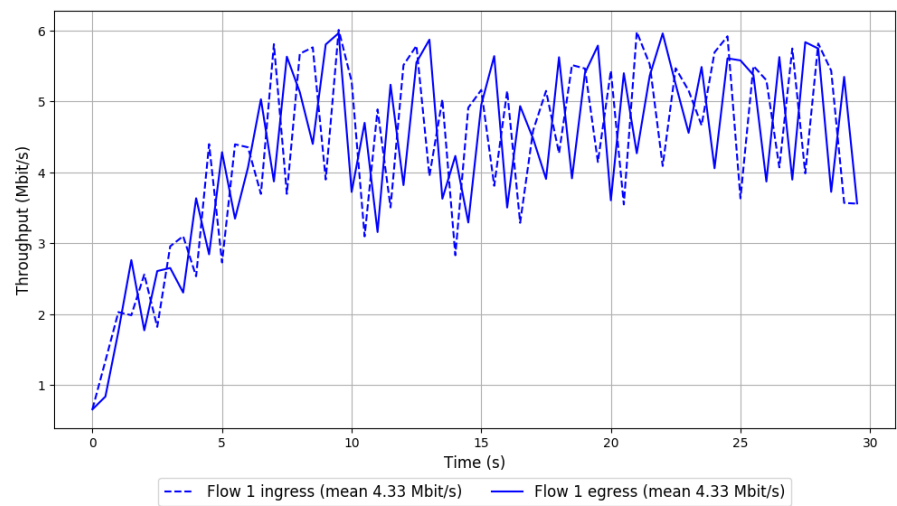
-- Flow 1:

Average throughput: 4.33 Mbit/s

95th percentile per-packet one-way delay: 88.250 ms

Loss rate: 0.00%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-01-16 11:33:31

End at: 2018-01-16 11:34:01

Below is generated by plot.py at 2018-01-16 13:43:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.05 Mbit/s

95th percentile per-packet one-way delay: 88.072 ms

Loss rate: 0.00%

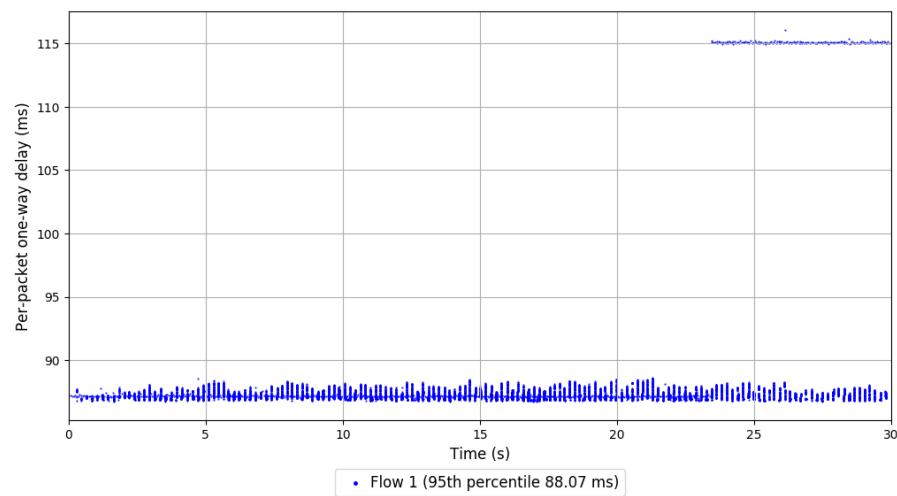
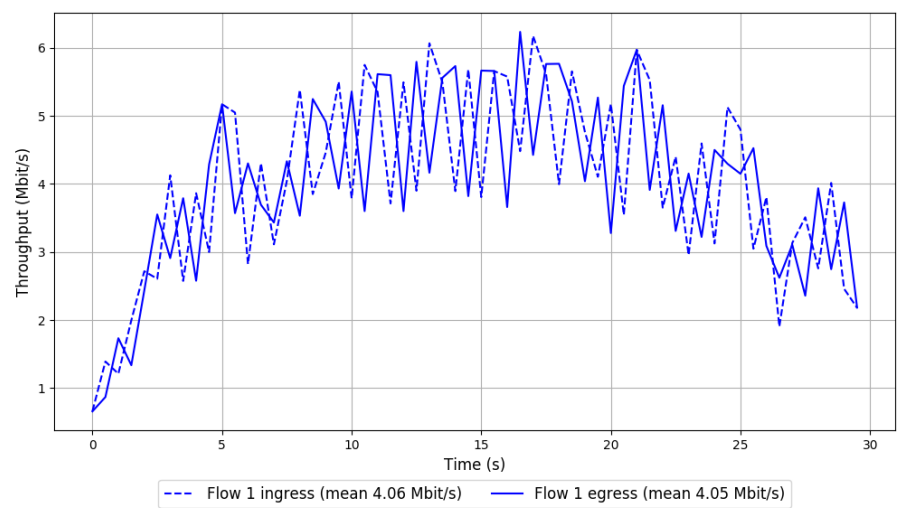
-- Flow 1:

Average throughput: 4.05 Mbit/s

95th percentile per-packet one-way delay: 88.072 ms

Loss rate: 0.00%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-01-16 11:48:10

End at: 2018-01-16 11:48:40

Below is generated by plot.py at 2018-01-16 13:43:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.94 Mbit/s

95th percentile per-packet one-way delay: 115.975 ms

Loss rate: 0.00%

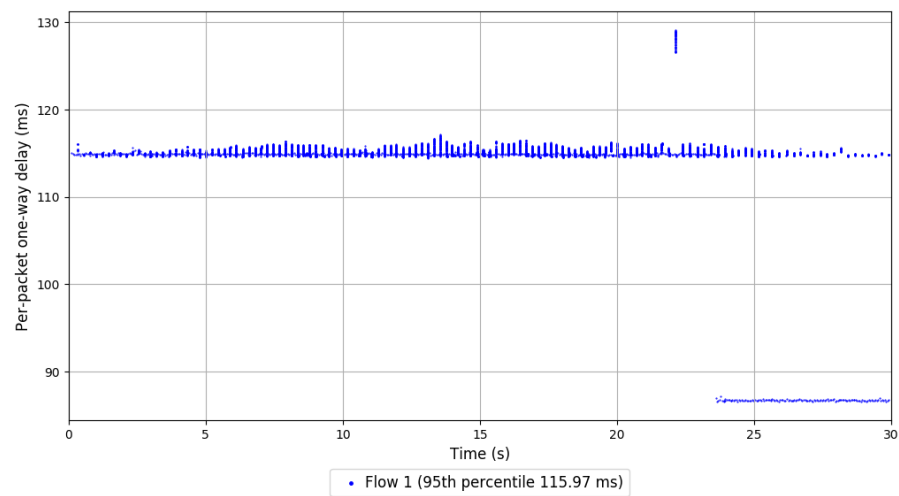
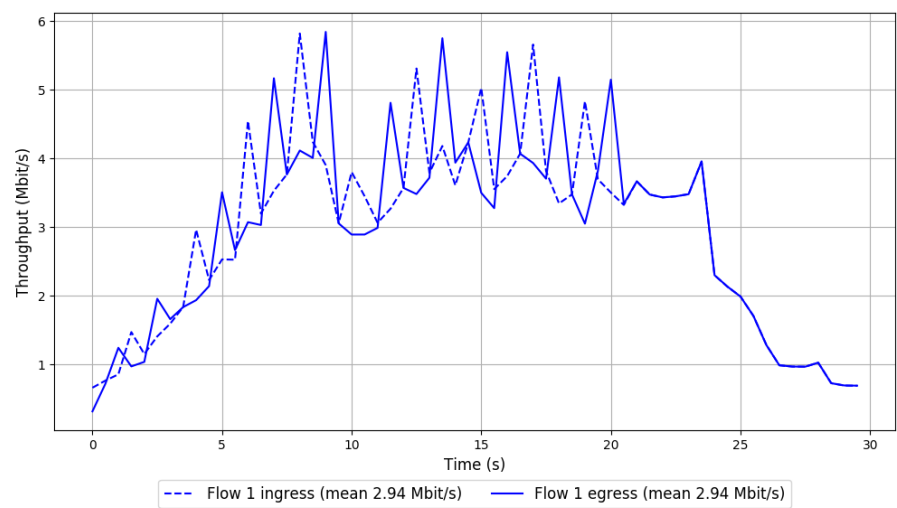
-- Flow 1:

Average throughput: 2.94 Mbit/s

95th percentile per-packet one-way delay: 115.975 ms

Loss rate: 0.00%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-01-16 12:01:55

End at: 2018-01-16 12:02:25

Below is generated by plot.py at 2018-01-16 13:43:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.68 Mbit/s

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

Loss rate: 0.75%

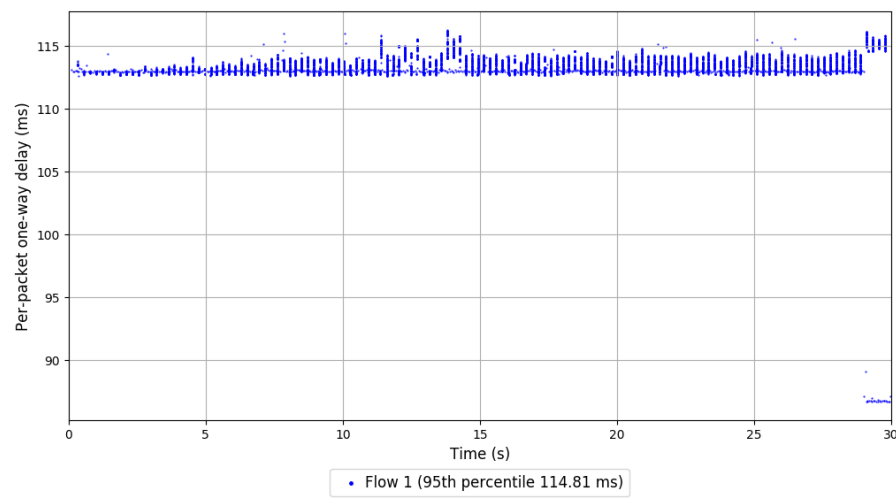
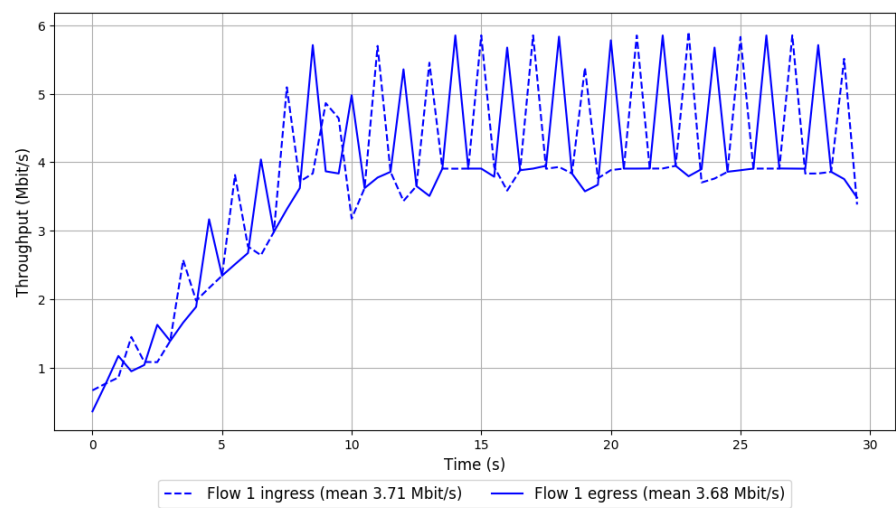
-- Flow 1:

Average throughput: 3.68 Mbit/s

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

Loss rate: 0.75%

Run 10: Report of Sprout — Data Link

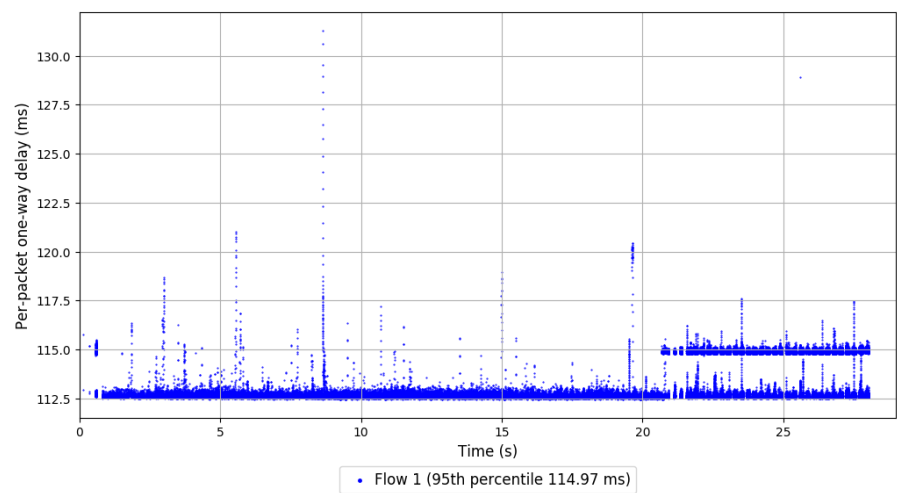
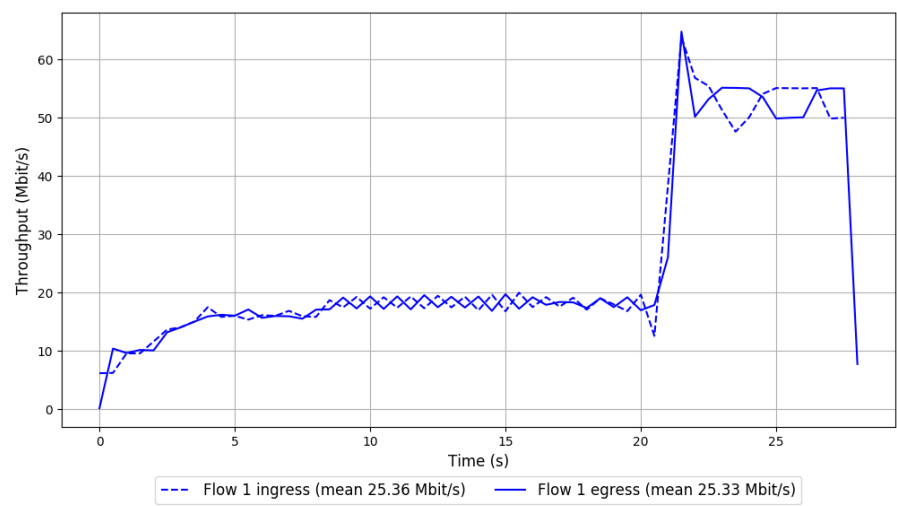


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-01-16 09:54:31
End at: 2018-01-16 09:55:02

# Below is generated by plot.py at 2018-01-16 13:43:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 25.33 Mbit/s
95th percentile per-packet one-way delay: 114.969 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 25.33 Mbit/s
95th percentile per-packet one-way delay: 114.969 ms
Loss rate: 0.16%
```


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

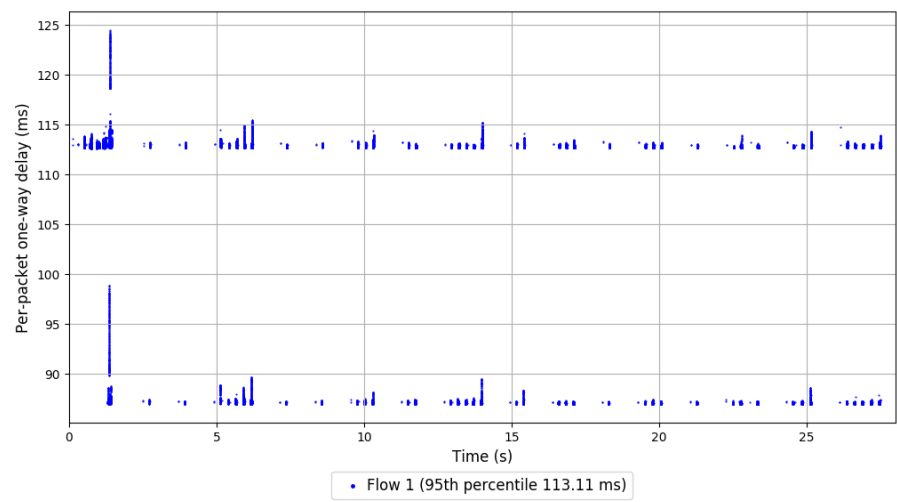
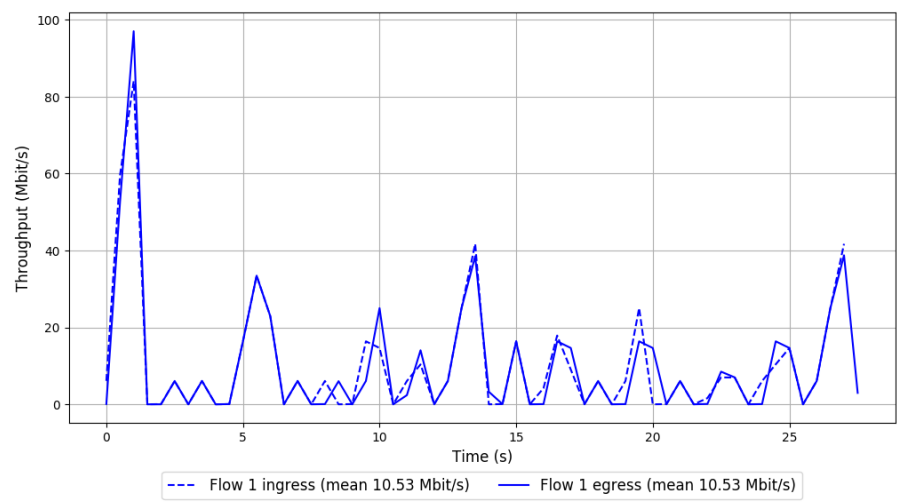


```
Run 2: Statistics of TaoVA-100x

Start at: 2018-01-16 10:08:01
End at: 2018-01-16 10:08:31

# Below is generated by plot.py at 2018-01-16 13:43:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 10.53 Mbit/s
95th percentile per-packet one-way delay: 113.113 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 10.53 Mbit/s
95th percentile per-packet one-way delay: 113.113 ms
Loss rate: 0.00%
```

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

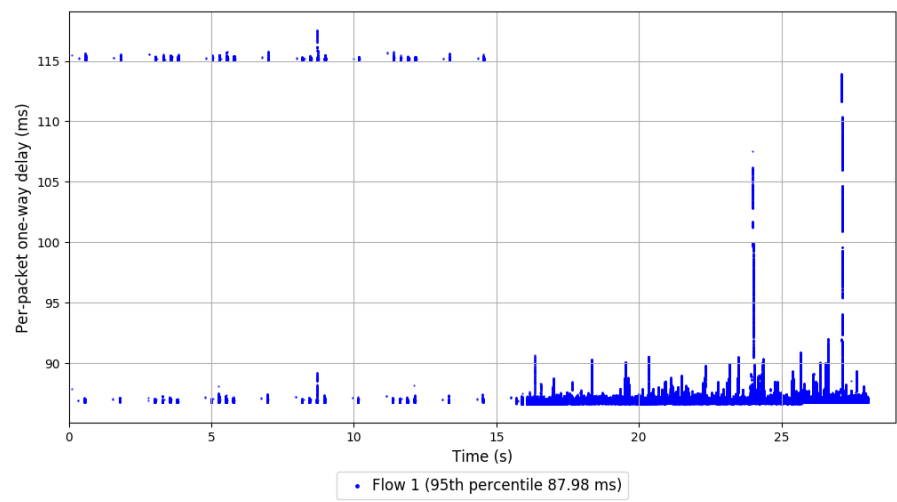
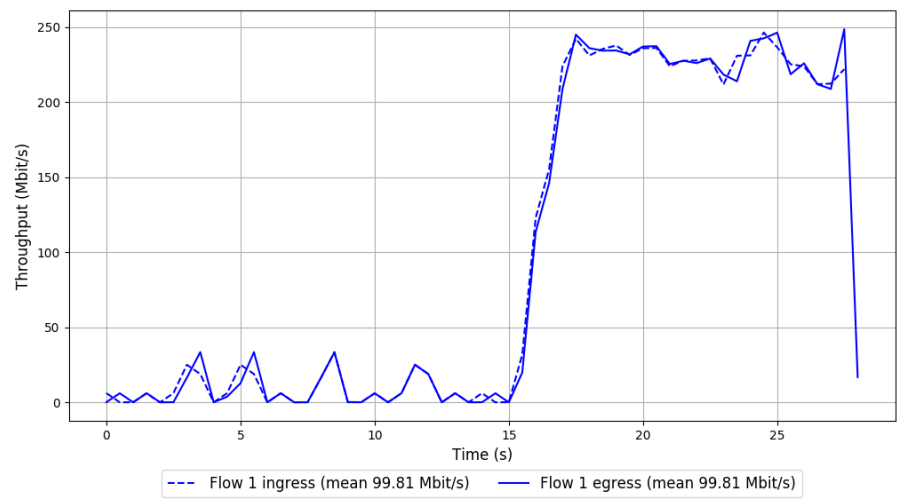


```
Run 3: Statistics of TaoVA-100x

Start at: 2018-01-16 10:22:07
End at: 2018-01-16 10:22:37

# Below is generated by plot.py at 2018-01-16 13:45:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 99.81 Mbit/s
95th percentile per-packet one-way delay: 87.983 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 99.81 Mbit/s
95th percentile per-packet one-way delay: 87.983 ms
Loss rate: 0.00%
```

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-01-16 10:35:58

End at: 2018-01-16 10:36:28

Below is generated by plot.py at 2018-01-16 13:48:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 166.41 Mbit/s

95th percentile per-packet one-way delay: 87.410 ms

Loss rate: 0.00%

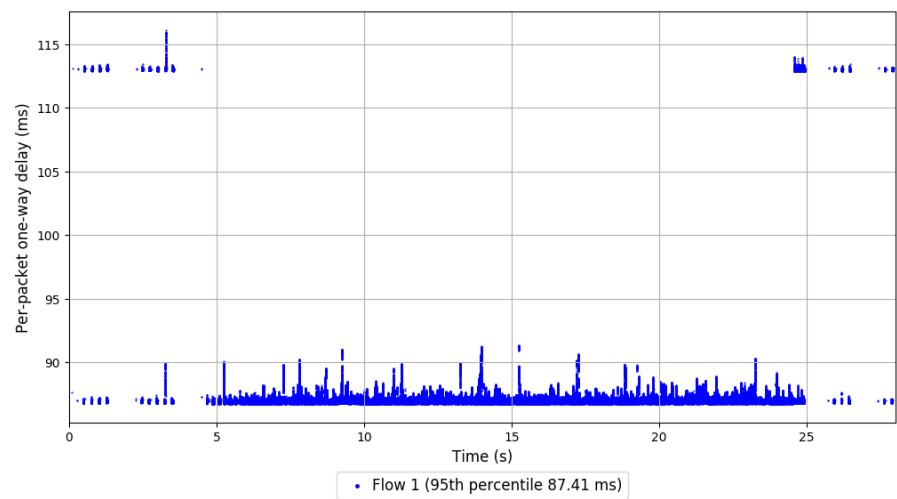
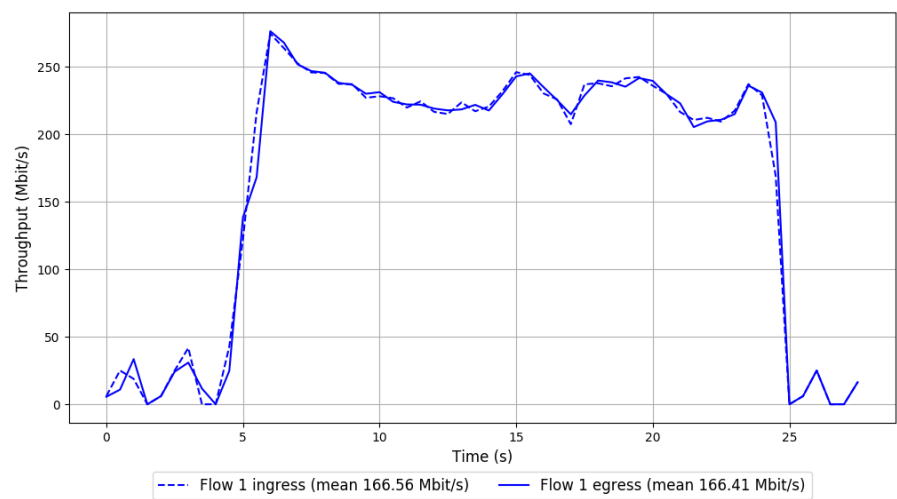
-- Flow 1:

Average throughput: 166.41 Mbit/s

95th percentile per-packet one-way delay: 87.410 ms

Loss rate: 0.00%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-01-16 10:50:26

End at: 2018-01-16 10:50:56

Below is generated by plot.py at 2018-01-16 13:48:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.92 Mbit/s

95th percentile per-packet one-way delay: 113.126 ms

Loss rate: 0.00%

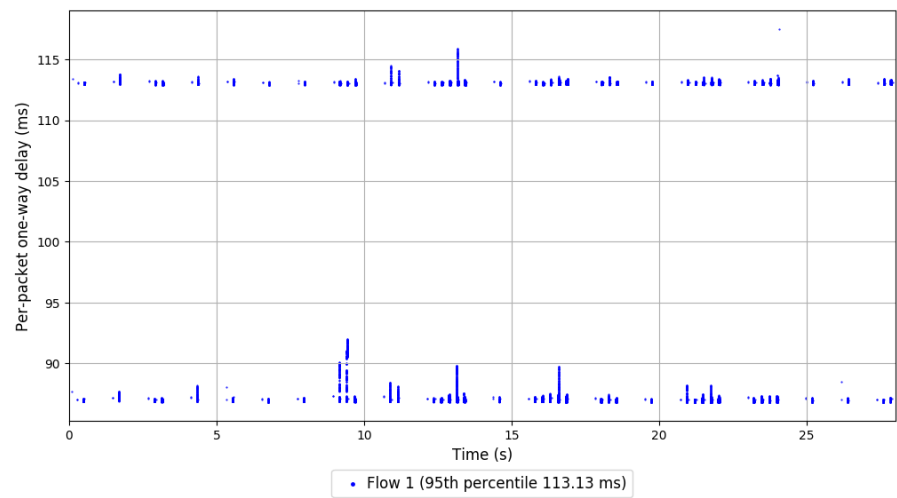
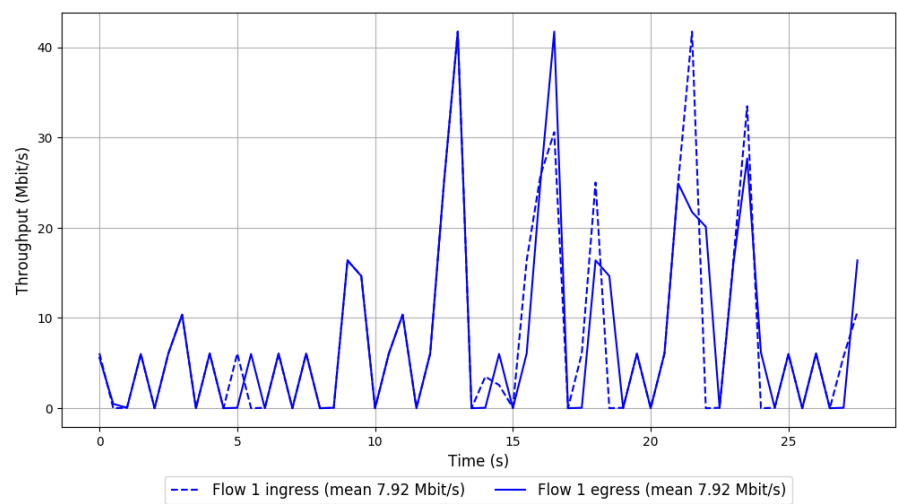
-- Flow 1:

Average throughput: 7.92 Mbit/s

95th percentile per-packet one-way delay: 113.126 ms

Loss rate: 0.00%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-01-16 11:04:15

End at: 2018-01-16 11:04:45

Below is generated by plot.py at 2018-01-16 13:48:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 151.18 Mbit/s

95th percentile per-packet one-way delay: 88.181 ms

Loss rate: 0.00%

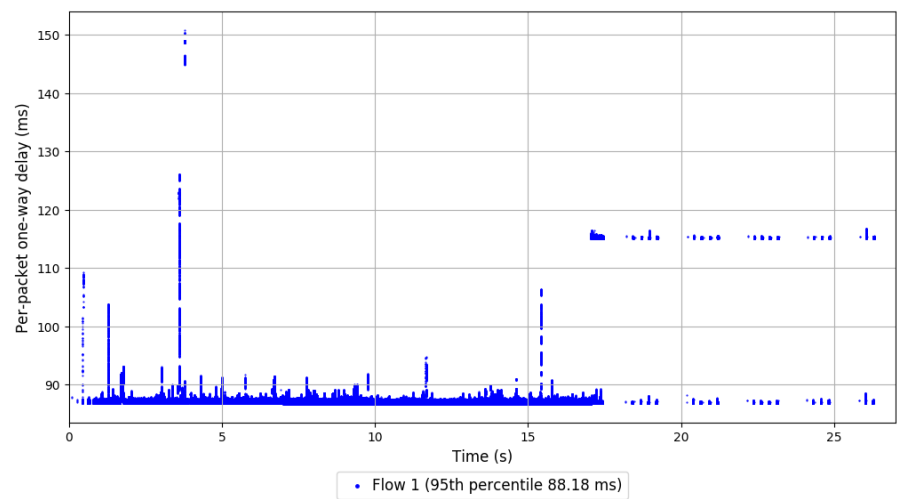
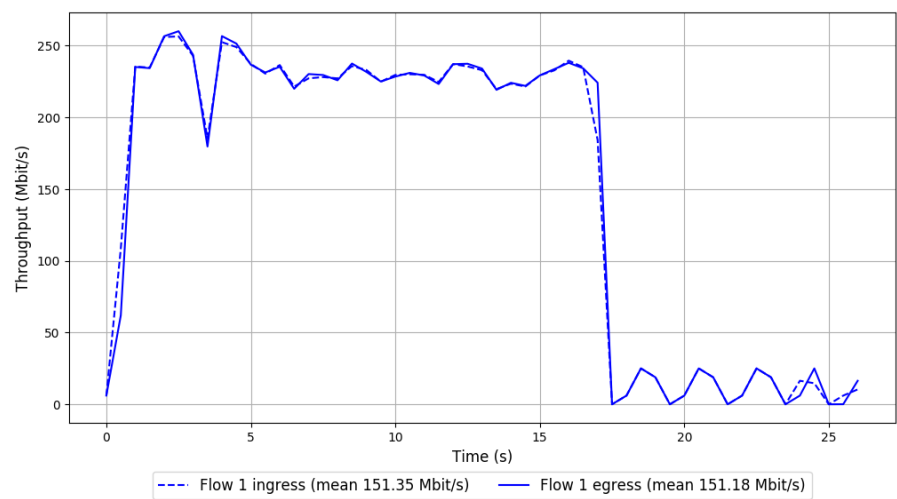
-- Flow 1:

Average throughput: 151.18 Mbit/s

95th percentile per-packet one-way delay: 88.181 ms

Loss rate: 0.00%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-01-16 11:18:07

End at: 2018-01-16 11:18:37

Below is generated by plot.py at 2018-01-16 13:48:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.41 Mbit/s

95th percentile per-packet one-way delay: 115.215 ms

Loss rate: 0.17%

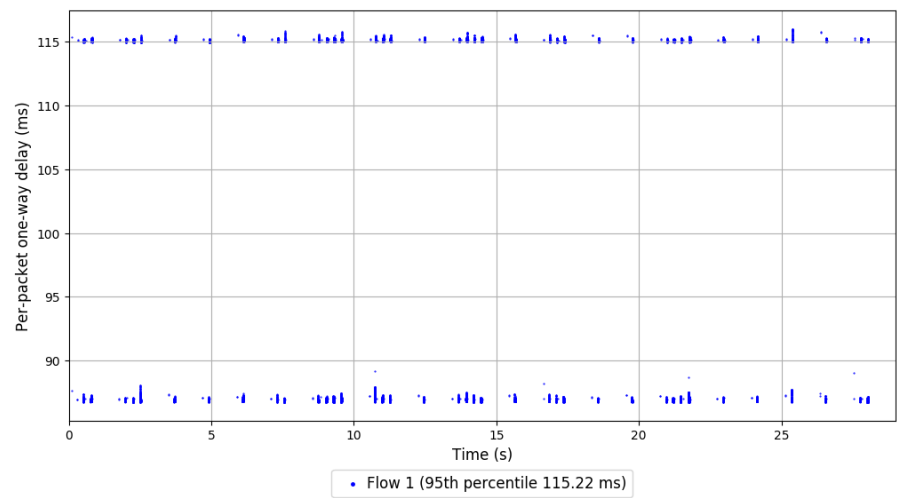
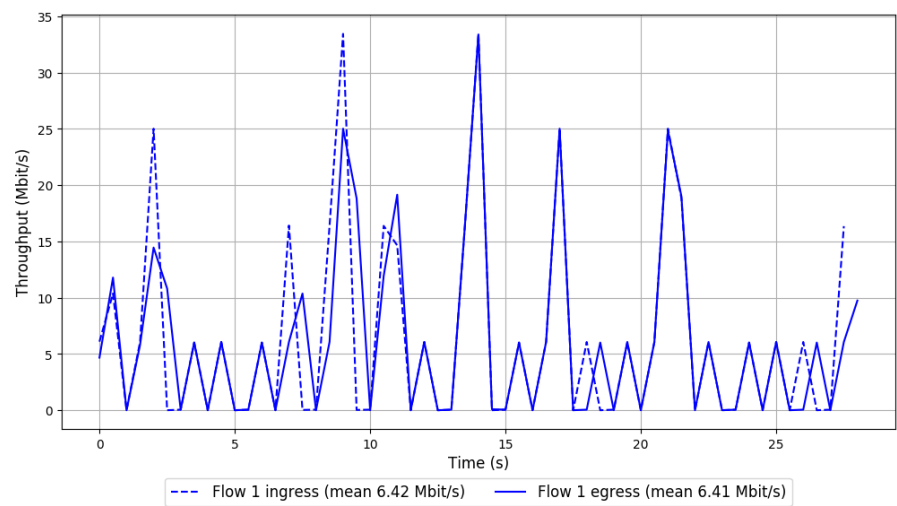
-- Flow 1:

Average throughput: 6.41 Mbit/s

95th percentile per-packet one-way delay: 115.215 ms

Loss rate: 0.17%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-01-16 11:32:05

End at: 2018-01-16 11:32:35

Below is generated by plot.py at 2018-01-16 13:48:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.10 Mbit/s

95th percentile per-packet one-way delay: 112.860 ms

Loss rate: 0.00%

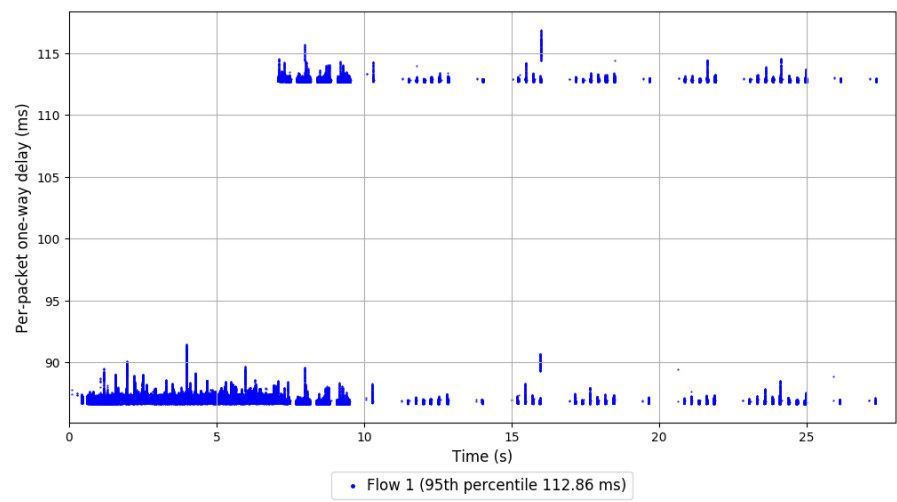
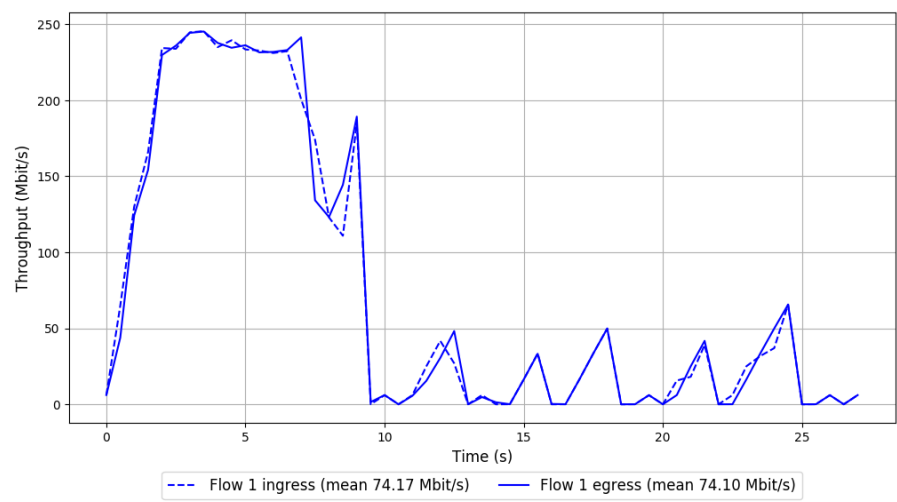
-- Flow 1:

Average throughput: 74.10 Mbit/s

95th percentile per-packet one-way delay: 112.860 ms

Loss rate: 0.00%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-01-16 11:46:31

End at: 2018-01-16 11:47:01

Below is generated by plot.py at 2018-01-16 13:50:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 204.51 Mbit/s

95th percentile per-packet one-way delay: 87.353 ms

Loss rate: 0.00%

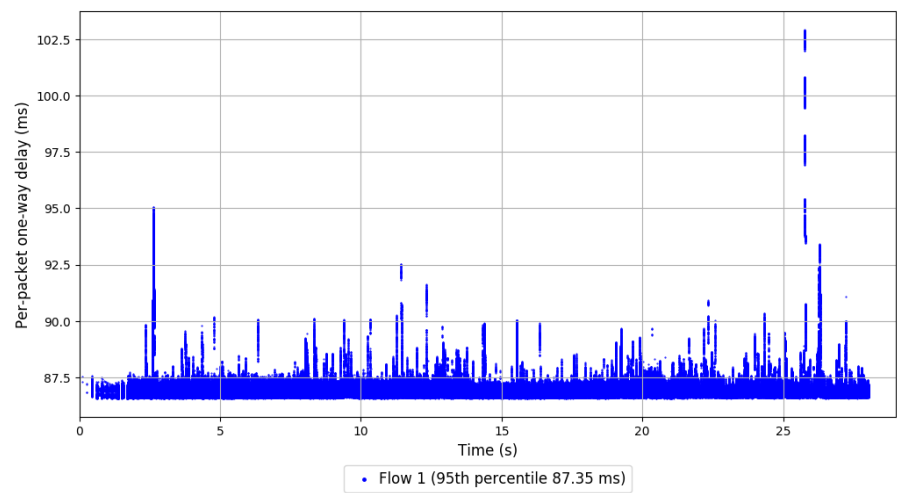
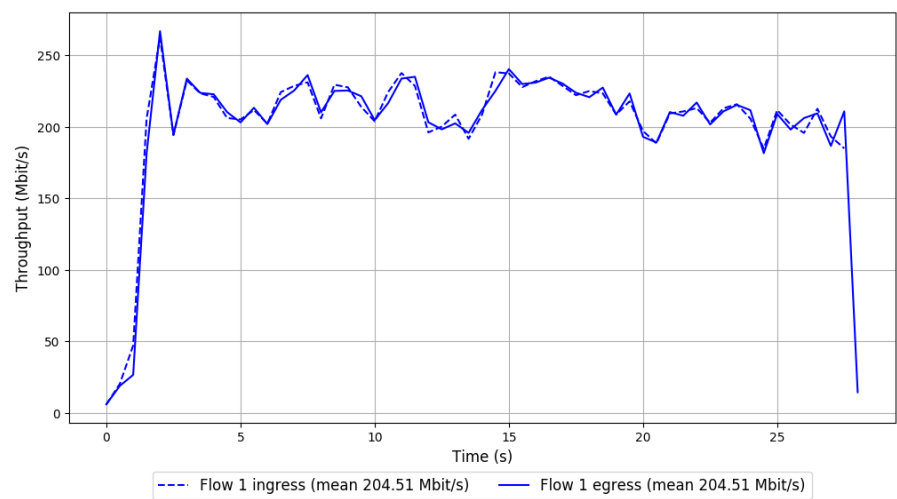
-- Flow 1:

Average throughput: 204.51 Mbit/s

95th percentile per-packet one-way delay: 87.353 ms

Loss rate: 0.00%

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

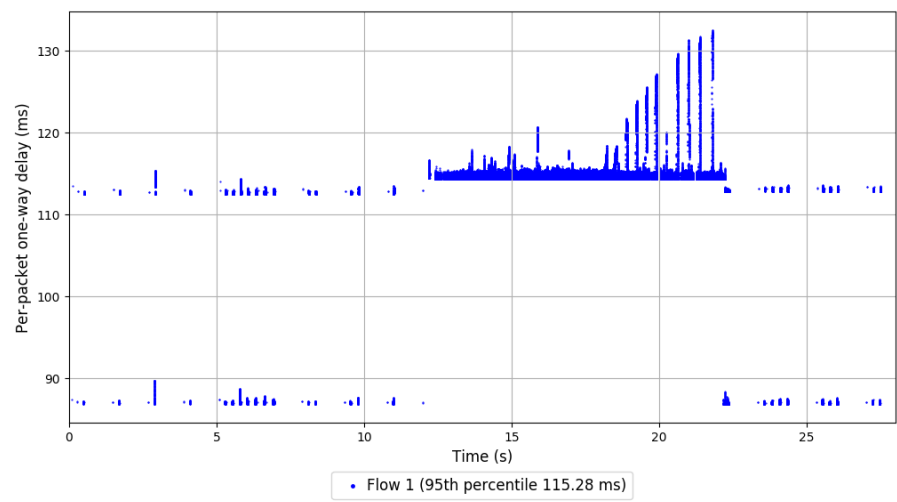
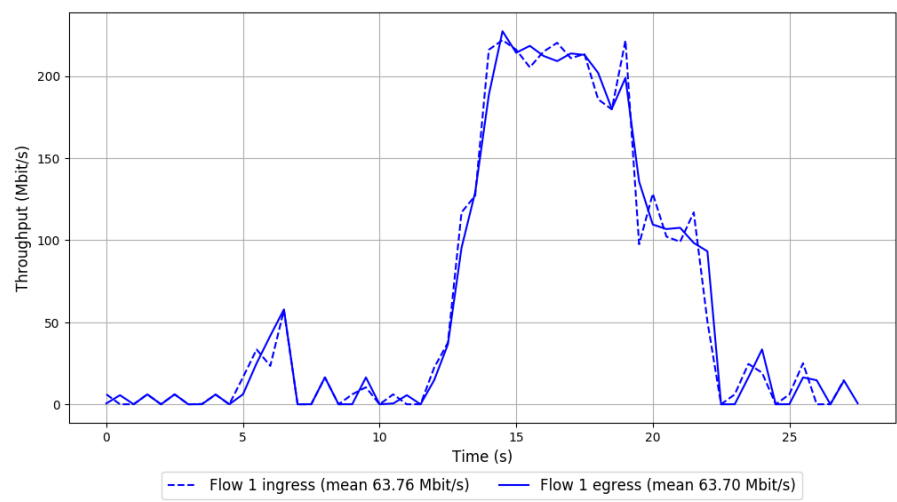


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-01-16 12:00:30
End at: 2018-01-16 12:01:00

# Below is generated by plot.py at 2018-01-16 13:50:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 63.70 Mbit/s
95th percentile per-packet one-way delay: 115.281 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 63.70 Mbit/s
95th percentile per-packet one-way delay: 115.281 ms
Loss rate: 0.00%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2018-01-16 09:53:12

End at: 2018-01-16 09:53:42

Below is generated by plot.py at 2018-01-16 13:50:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.67 Mbit/s

95th percentile per-packet one-way delay: 113.483 ms

Loss rate: 0.05%

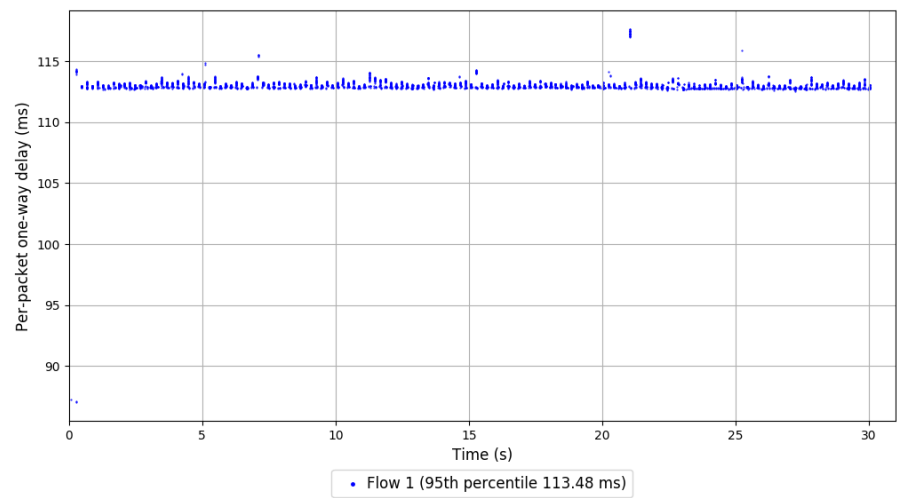
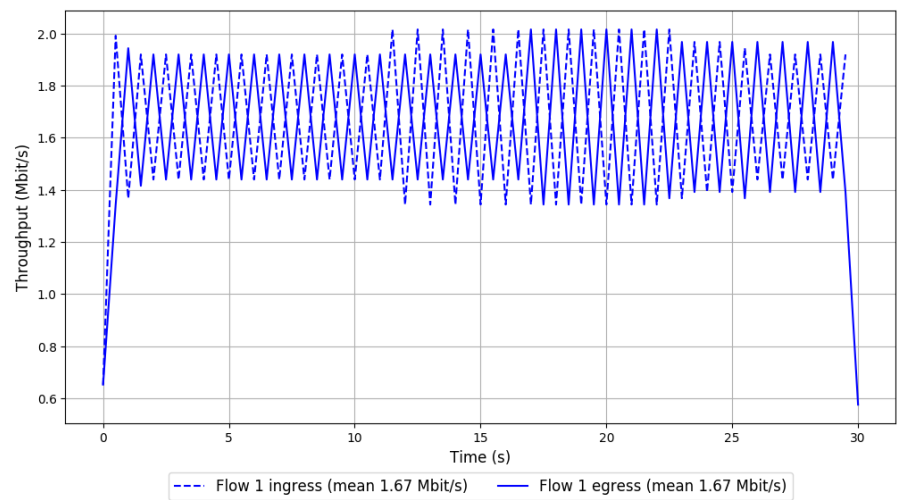
-- Flow 1:

Average throughput: 1.67 Mbit/s

95th percentile per-packet one-way delay: 113.483 ms

Loss rate: 0.05%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-01-16 10:06:38

End at: 2018-01-16 10:07:08

Below is generated by plot.py at 2018-01-16 13:50:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 65.39 Mbit/s

95th percentile per-packet one-way delay: 115.043 ms

Loss rate: 0.50%

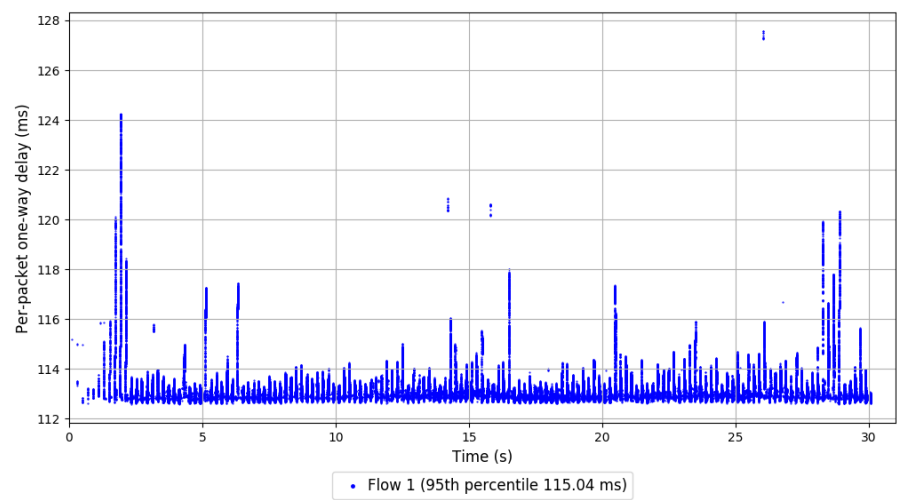
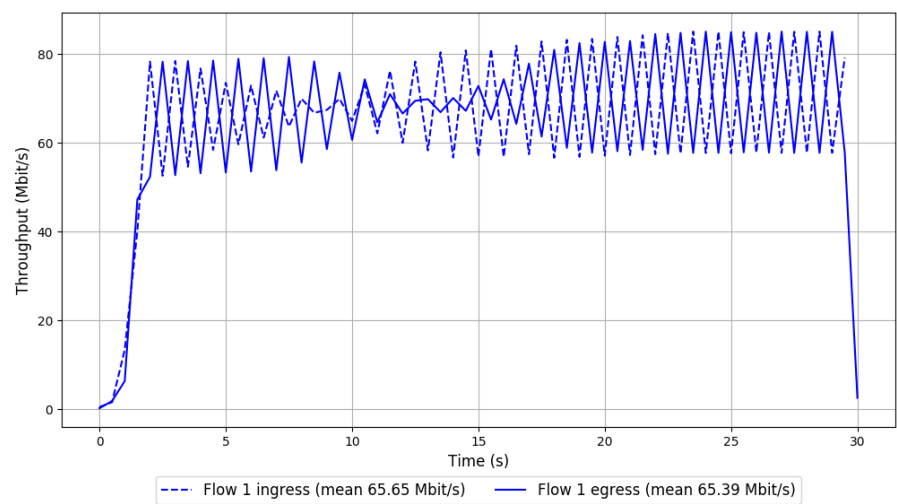
-- Flow 1:

Average throughput: 65.39 Mbit/s

95th percentile per-packet one-way delay: 115.043 ms

Loss rate: 0.50%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-01-16 10:20:44

End at: 2018-01-16 10:21:14

Below is generated by plot.py at 2018-01-16 13:50:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.77 Mbit/s

95th percentile per-packet one-way delay: 91.403 ms

Loss rate: 0.00%

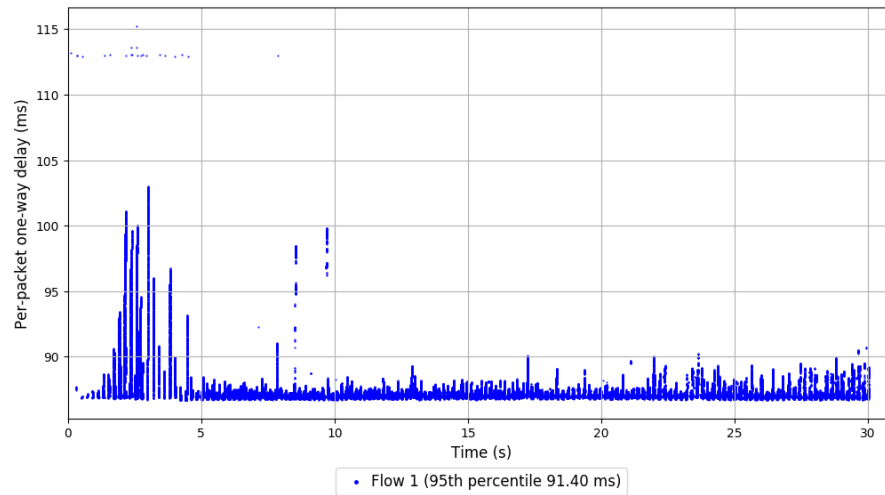
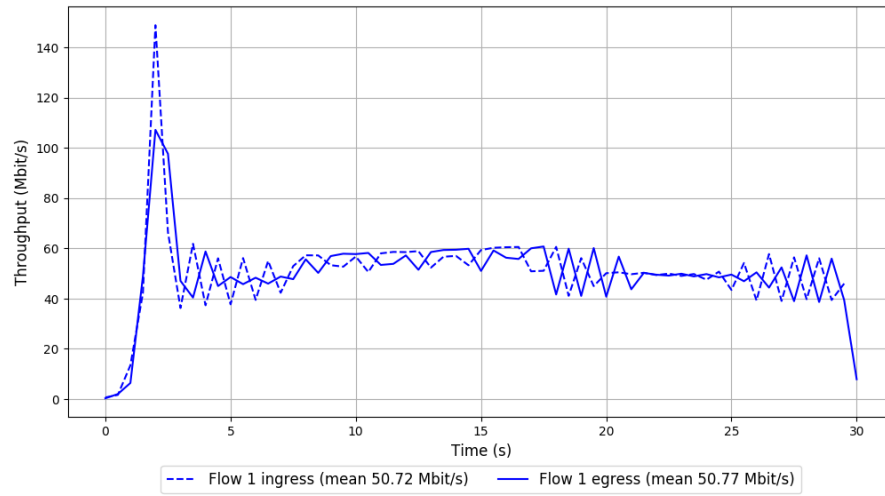
-- Flow 1:

Average throughput: 50.77 Mbit/s

95th percentile per-packet one-way delay: 91.403 ms

Loss rate: 0.00%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-01-16 10:34:36

End at: 2018-01-16 10:35:06

Below is generated by plot.py at 2018-01-16 13:50:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 53.95 Mbit/s

95th percentile per-packet one-way delay: 88.269 ms

Loss rate: 0.00%

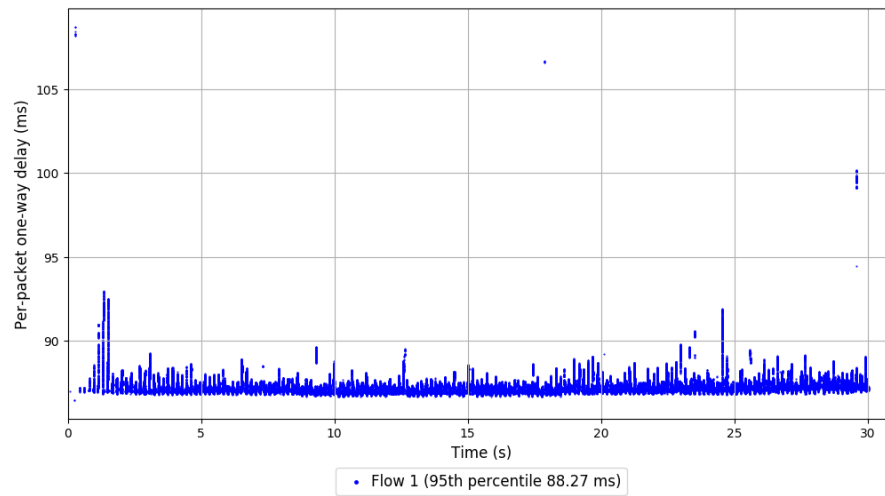
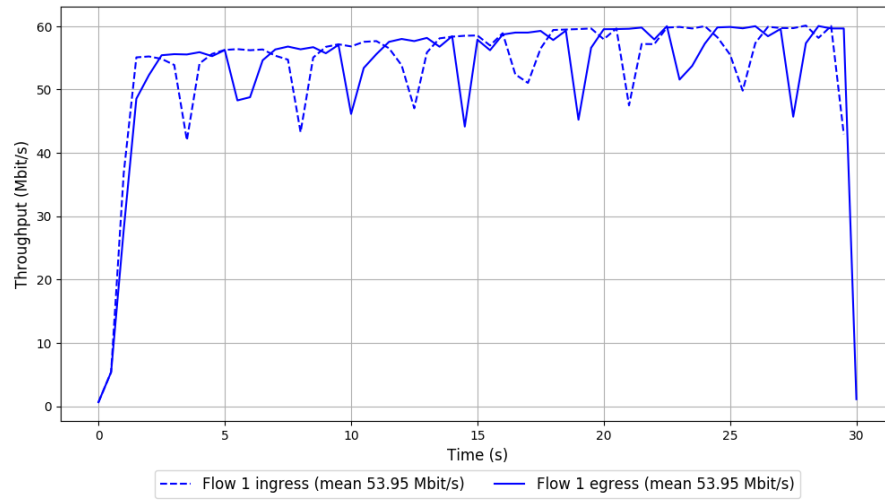
-- Flow 1:

Average throughput: 53.95 Mbit/s

95th percentile per-packet one-way delay: 88.269 ms

Loss rate: 0.00%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-01-16 10:49:02

End at: 2018-01-16 10:49:32

Below is generated by plot.py at 2018-01-16 13:50:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 80.50 Mbit/s

95th percentile per-packet one-way delay: 88.787 ms

Loss rate: 0.00%

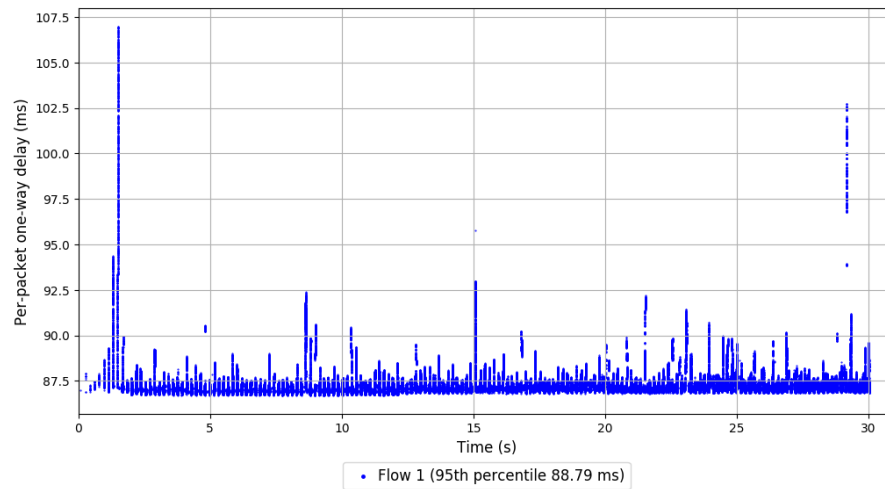
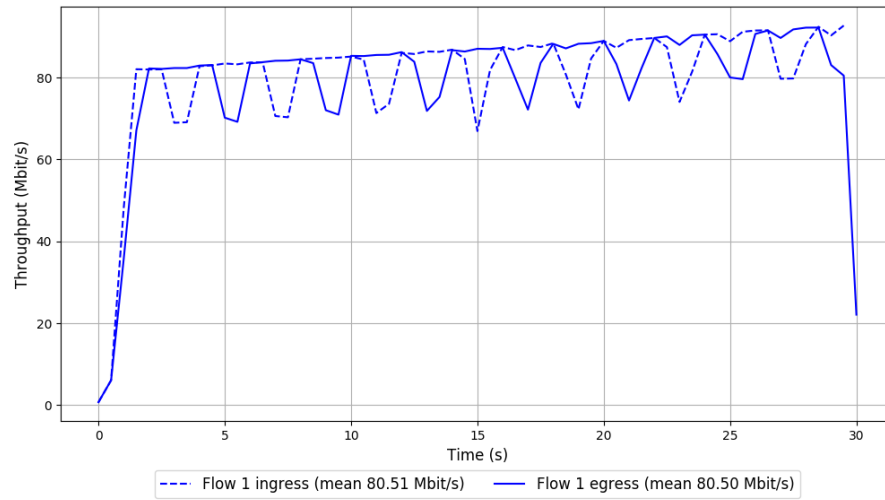
-- Flow 1:

Average throughput: 80.50 Mbit/s

95th percentile per-packet one-way delay: 88.787 ms

Loss rate: 0.00%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-01-16 11:02:54

End at: 2018-01-16 11:03:24

Below is generated by plot.py at 2018-01-16 13:50:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 33.85 Mbit/s

95th percentile per-packet one-way delay: 91.856 ms

Loss rate: 0.00%

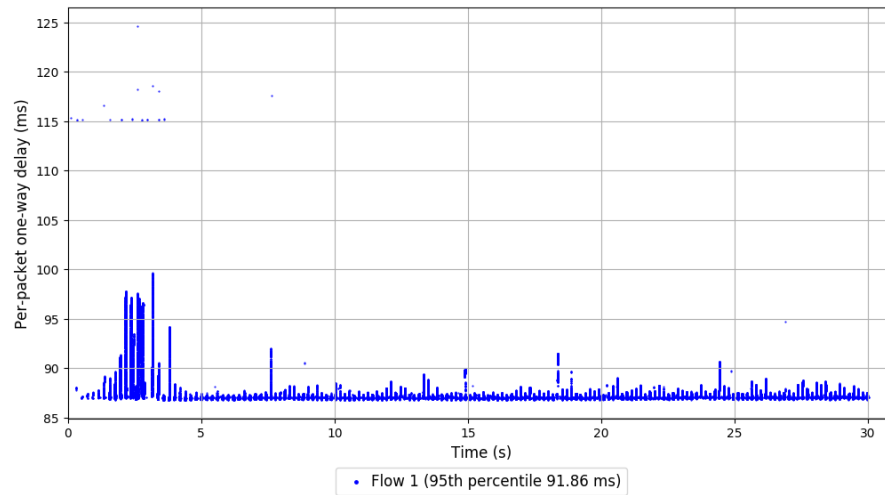
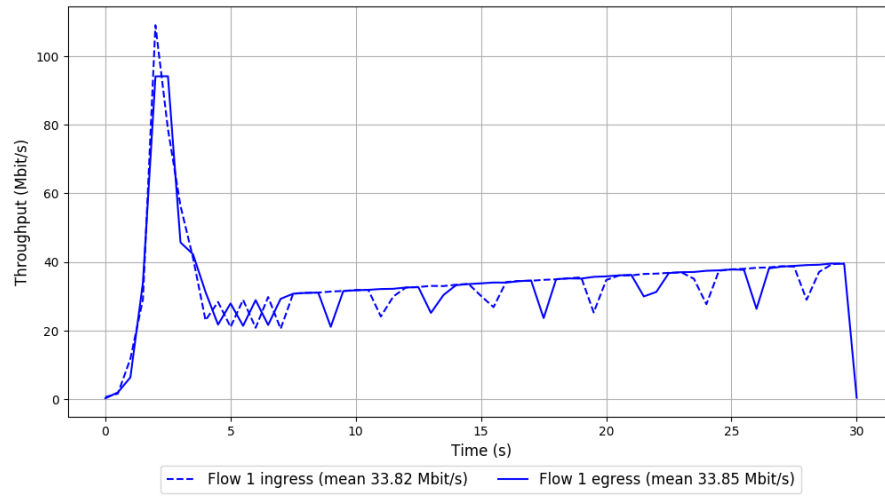
-- Flow 1:

Average throughput: 33.85 Mbit/s

95th percentile per-packet one-way delay: 91.856 ms

Loss rate: 0.00%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-01-16 11:16:45

End at: 2018-01-16 11:17:15

Below is generated by plot.py at 2018-01-16 13:50:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 46.29 Mbit/s

95th percentile per-packet one-way delay: 88.241 ms

Loss rate: 0.09%

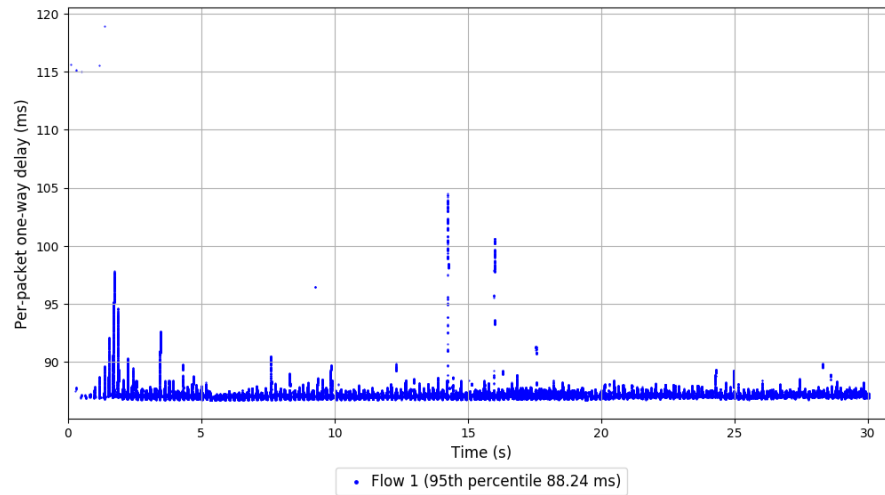
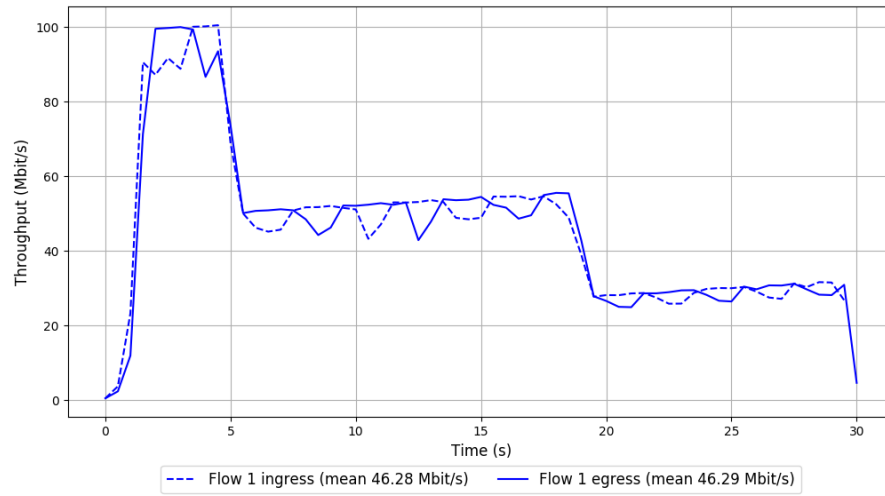
-- Flow 1:

Average throughput: 46.29 Mbit/s

95th percentile per-packet one-way delay: 88.241 ms

Loss rate: 0.09%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-01-16 11:30:44

End at: 2018-01-16 11:31:14

Below is generated by plot.py at 2018-01-16 13:50:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 34.06 Mbit/s

95th percentile per-packet one-way delay: 88.184 ms

Loss rate: 0.01%

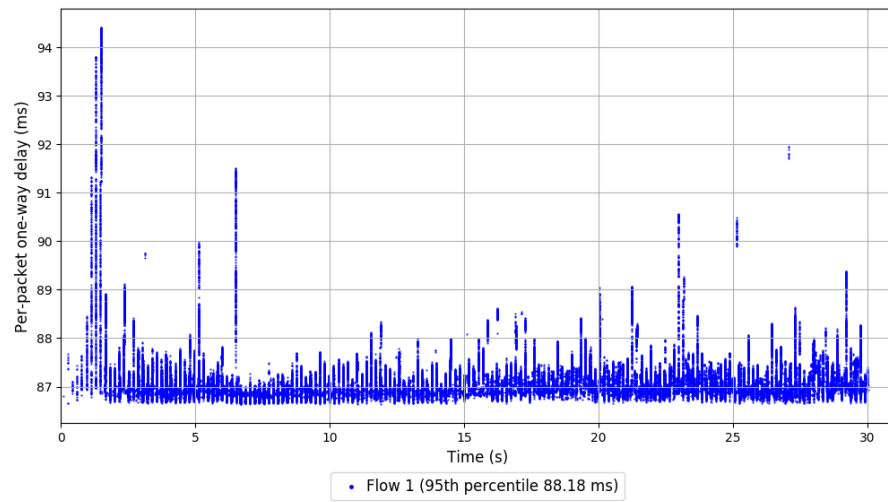
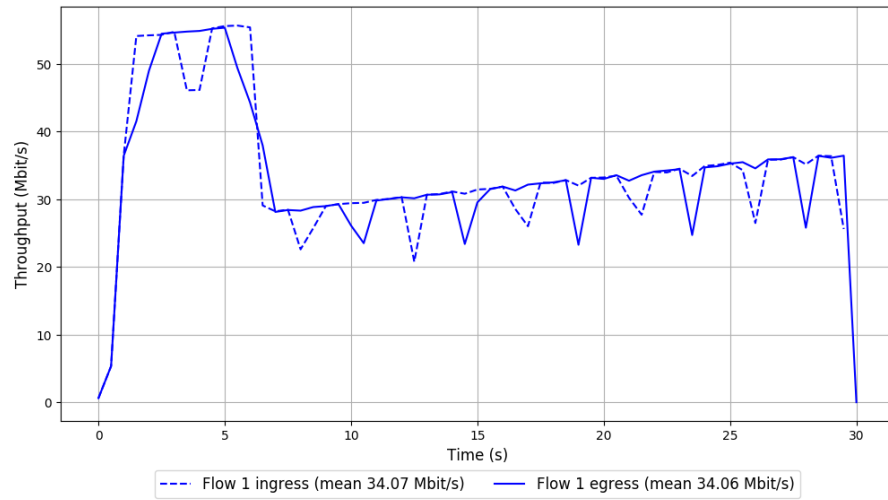
-- Flow 1:

Average throughput: 34.06 Mbit/s

95th percentile per-packet one-way delay: 88.184 ms

Loss rate: 0.01%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-01-16 11:45:09

End at: 2018-01-16 11:45:39

Below is generated by plot.py at 2018-01-16 13:50:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 41.77 Mbit/s

95th percentile per-packet one-way delay: 88.359 ms

Loss rate: 0.00%

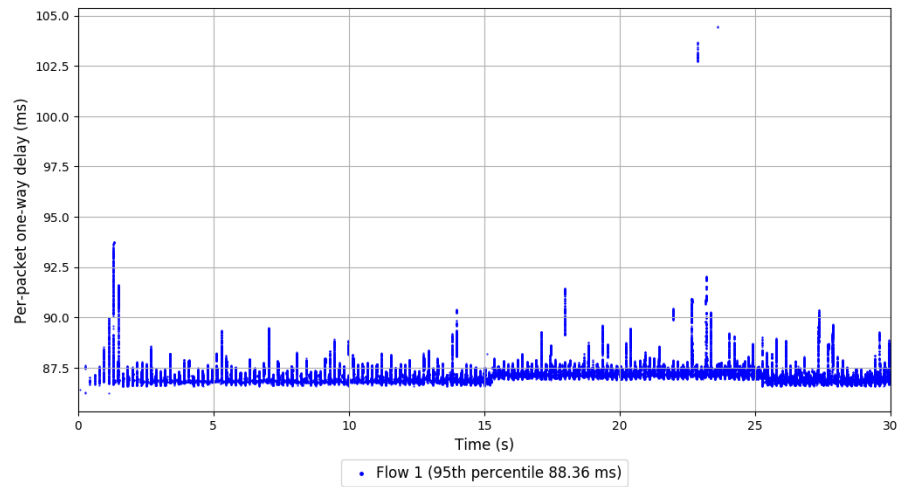
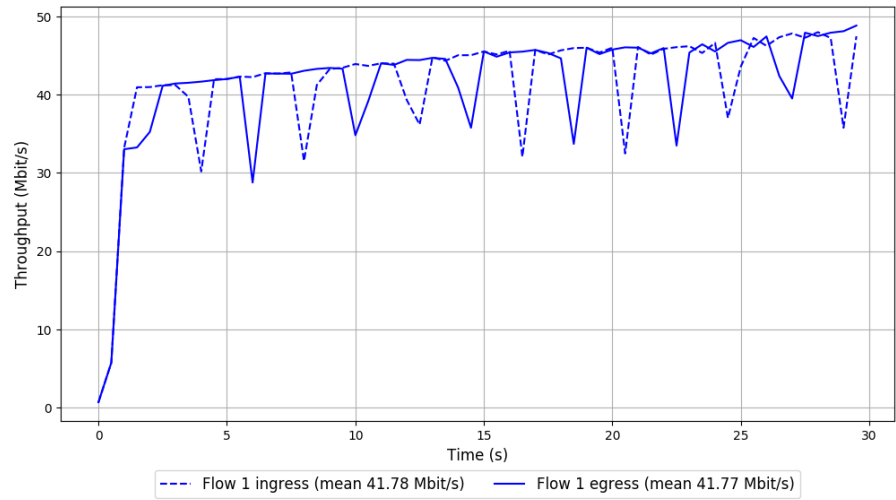
-- Flow 1:

Average throughput: 41.77 Mbit/s

95th percentile per-packet one-way delay: 88.359 ms

Loss rate: 0.00%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-01-16 11:59:11

End at: 2018-01-16 11:59:41

Below is generated by plot.py at 2018-01-16 13:50:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.08 Mbit/s

95th percentile per-packet one-way delay: 114.927 ms

Loss rate: 0.00%

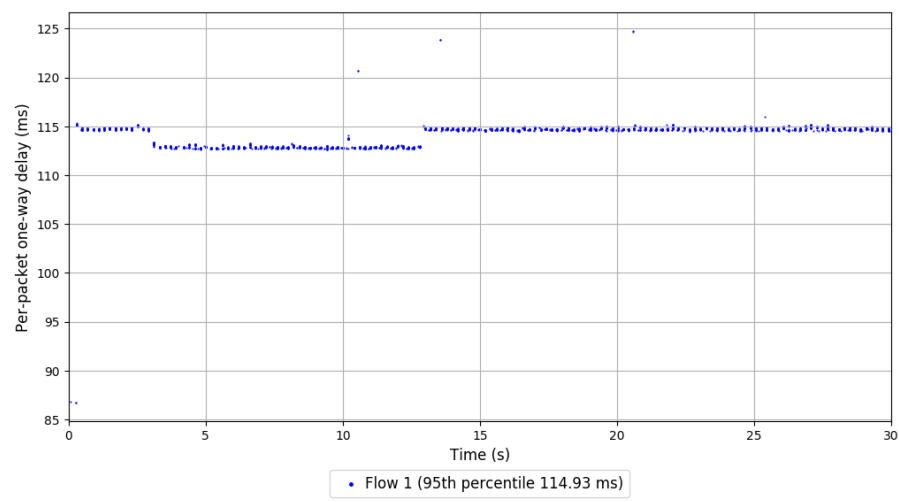
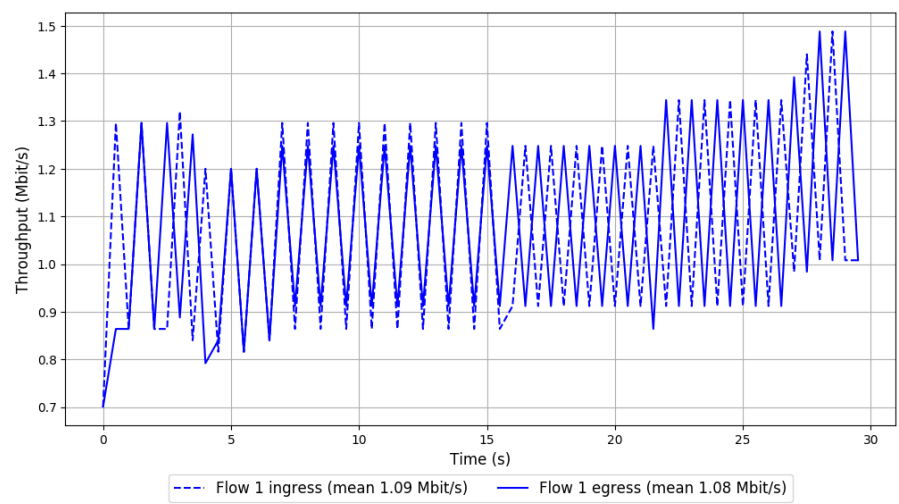
-- Flow 1:

Average throughput: 1.08 Mbit/s

95th percentile per-packet one-way delay: 114.927 ms

Loss rate: 0.00%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-01-16 09:57:19

End at: 2018-01-16 09:57:49

Below is generated by plot.py at 2018-01-16 13:50:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 168.36 Mbit/s

95th percentile per-packet one-way delay: 210.465 ms

Loss rate: 0.07%

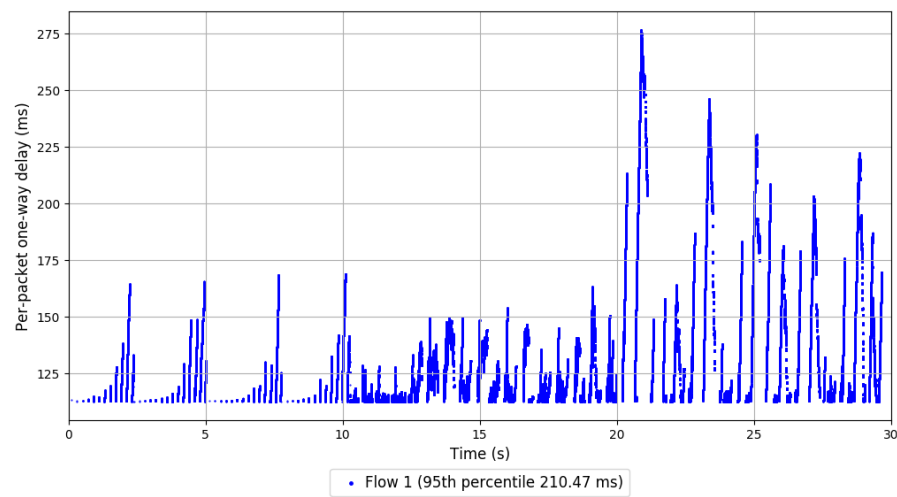
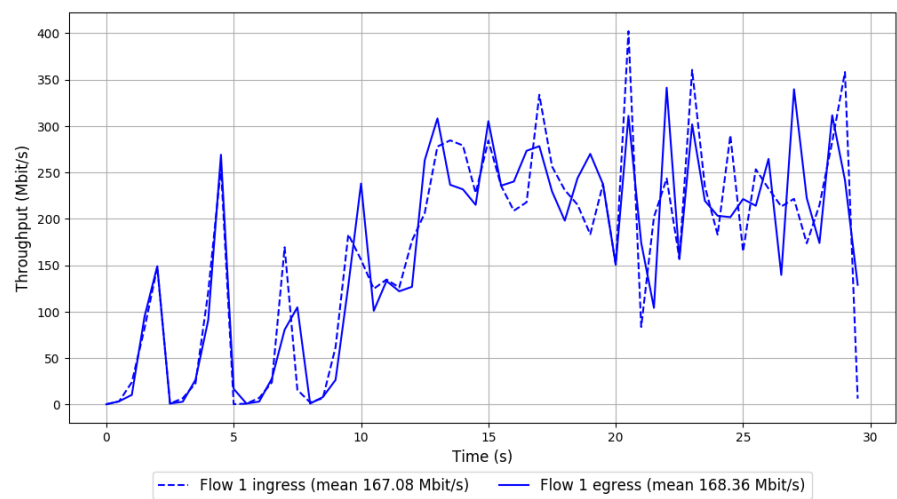
-- Flow 1:

Average throughput: 168.36 Mbit/s

95th percentile per-packet one-way delay: 210.465 ms

Loss rate: 0.07%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-01-16 10:10:45

End at: 2018-01-16 10:11:15

Below is generated by plot.py at 2018-01-16 13:50:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 178.04 Mbit/s

95th percentile per-packet one-way delay: 133.027 ms

Loss rate: 0.10%

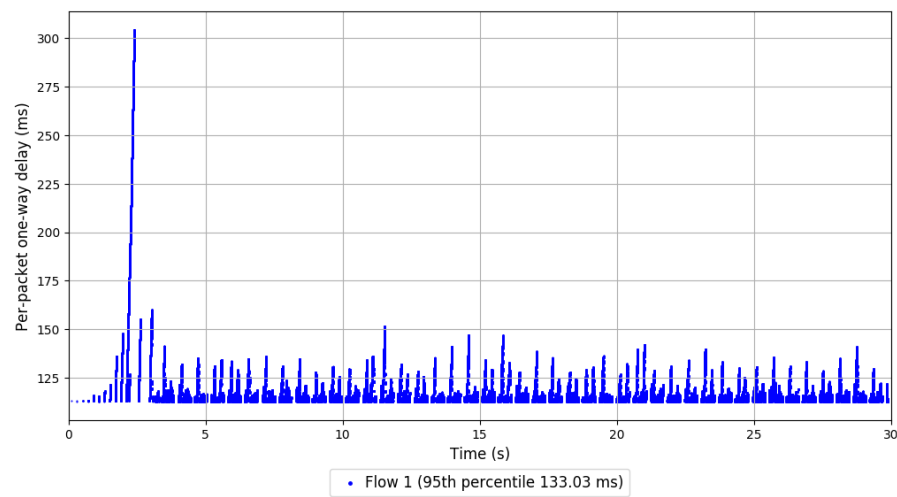
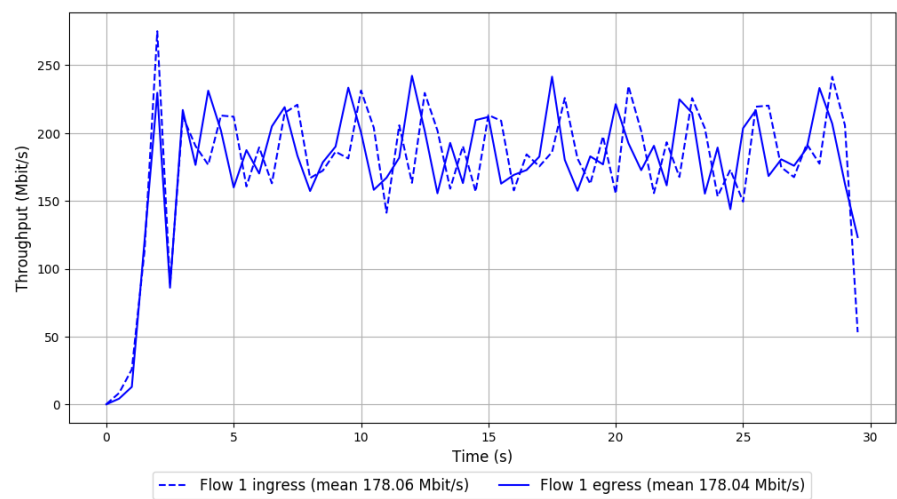
-- Flow 1:

Average throughput: 178.04 Mbit/s

95th percentile per-packet one-way delay: 133.027 ms

Loss rate: 0.10%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-01-16 10:25:00

End at: 2018-01-16 10:25:30

Below is generated by plot.py at 2018-01-16 13:50:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 202.79 Mbit/s

95th percentile per-packet one-way delay: 141.344 ms

Loss rate: 0.08%

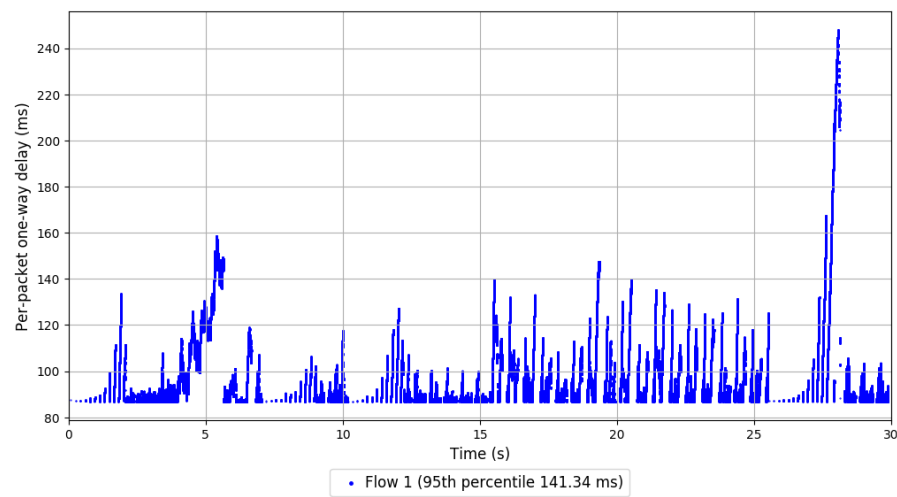
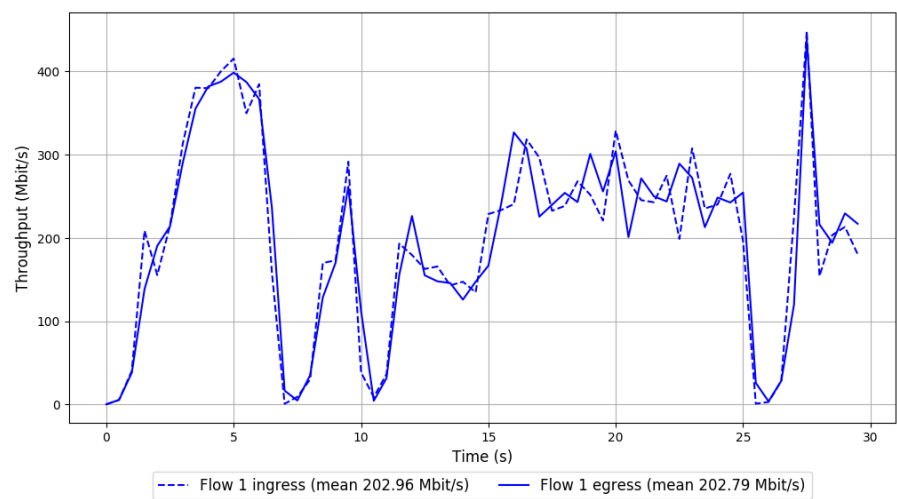
-- Flow 1:

Average throughput: 202.79 Mbit/s

95th percentile per-packet one-way delay: 141.344 ms

Loss rate: 0.08%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-01-16 10:38:57

End at: 2018-01-16 10:39:27

Below is generated by plot.py at 2018-01-16 13:50:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 238.26 Mbit/s

95th percentile per-packet one-way delay: 159.596 ms

Loss rate: 0.00%

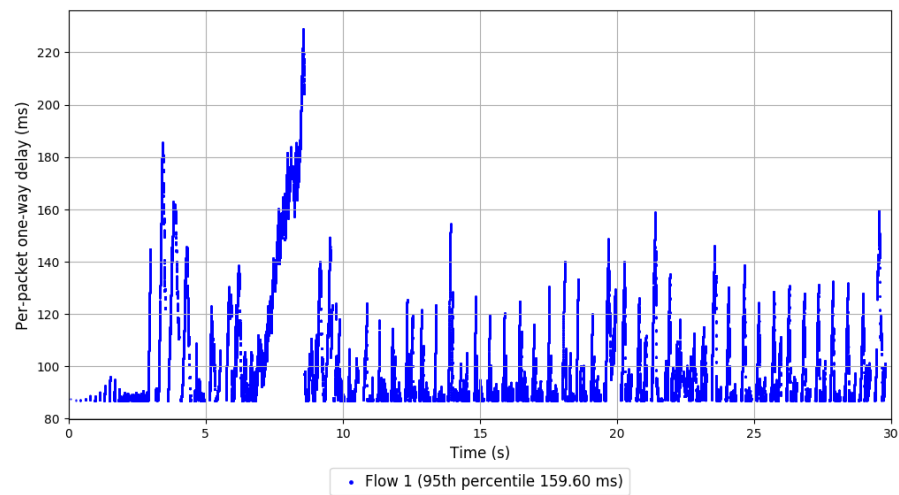
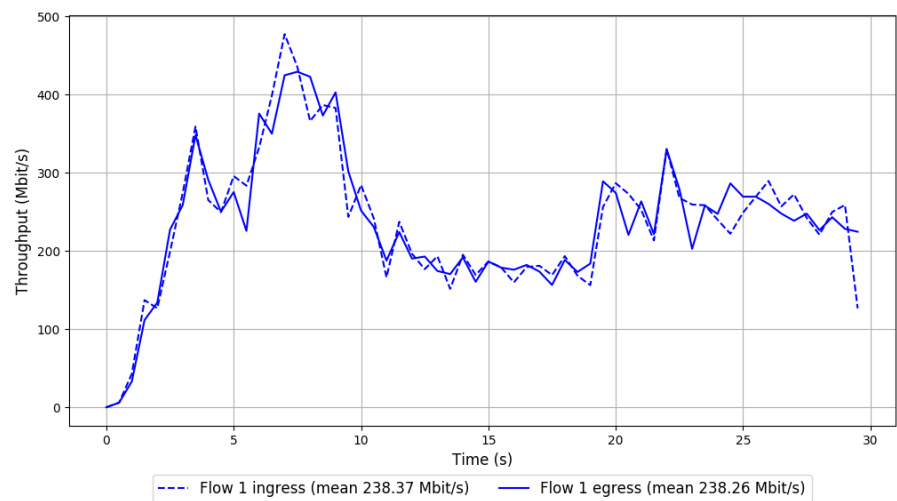
-- Flow 1:

Average throughput: 238.26 Mbit/s

95th percentile per-packet one-way delay: 159.596 ms

Loss rate: 0.00%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-01-16 10:53:11

End at: 2018-01-16 10:53:41

Below is generated by plot.py at 2018-01-16 13:50:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 217.33 Mbit/s

95th percentile per-packet one-way delay: 165.871 ms

Loss rate: 0.00%

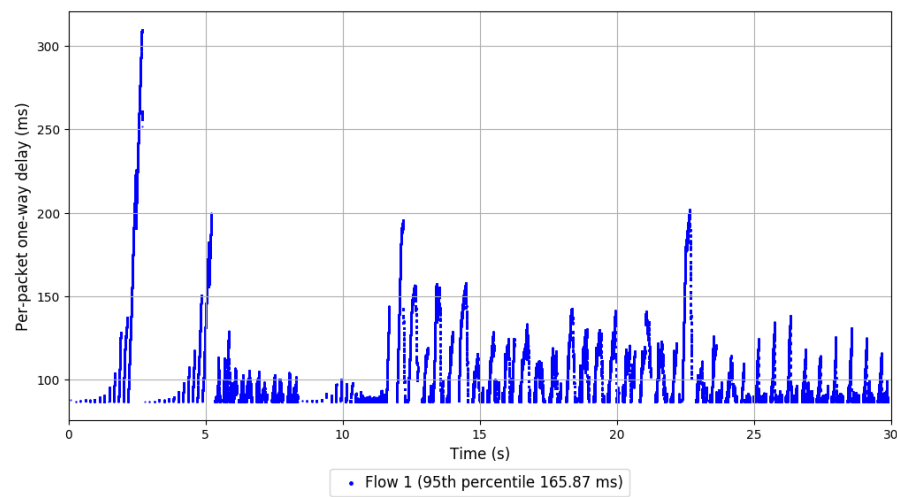
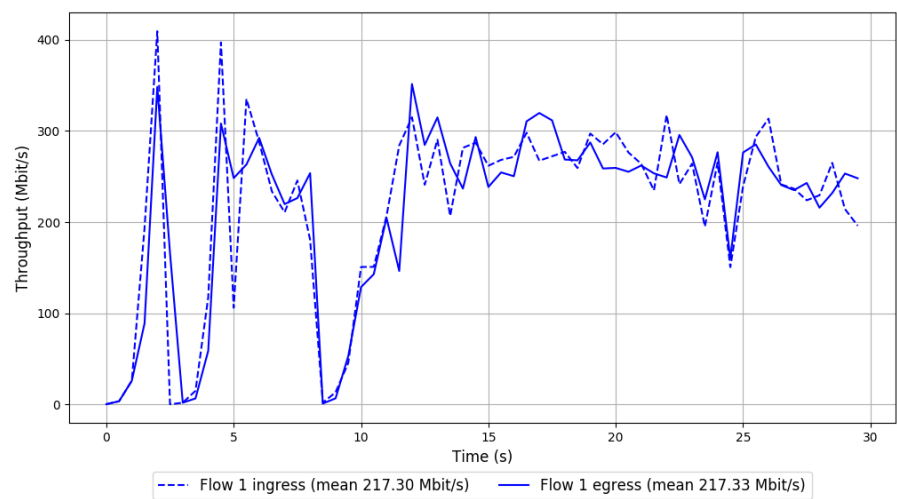
-- Flow 1:

Average throughput: 217.33 Mbit/s

95th percentile per-packet one-way delay: 165.871 ms

Loss rate: 0.00%

Run 5: Report of Verus — Data Link

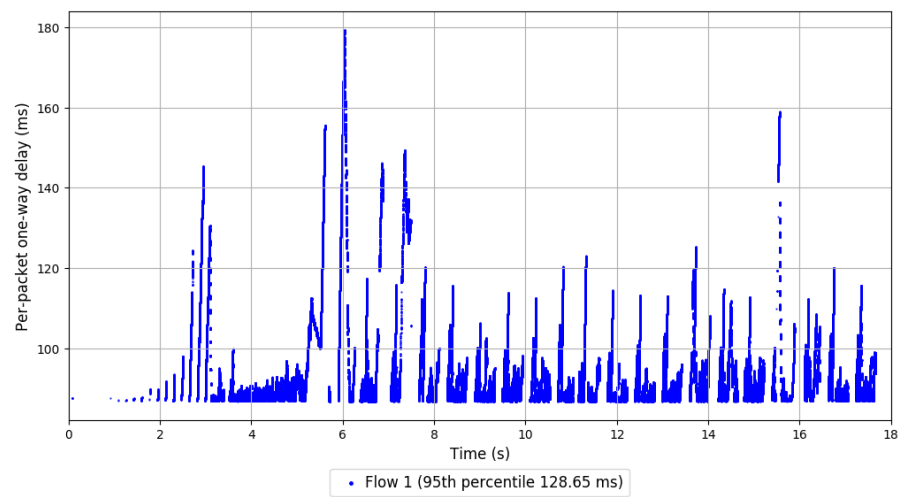
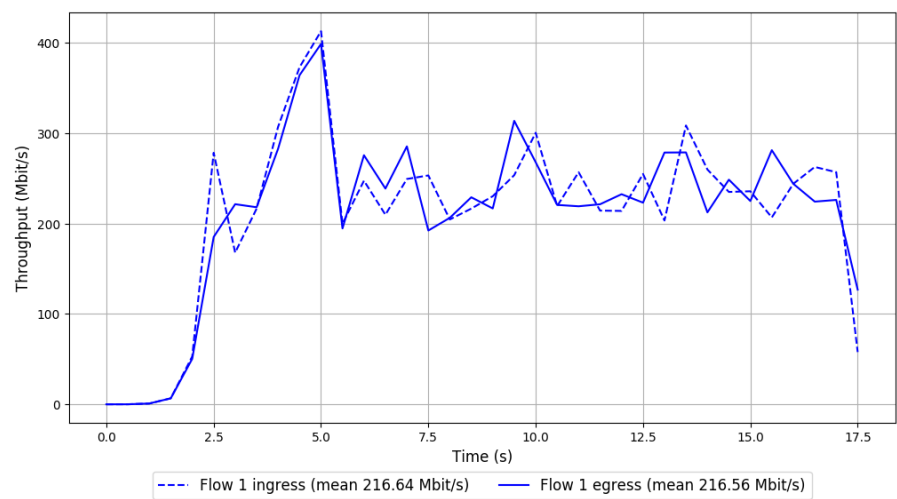


Run 6: Statistics of Verus

Start at: 2018-01-16 11:07:07

End at: 2018-01-16 11:07:37

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-01-16 11:20:52

End at: 2018-01-16 11:21:22

Below is generated by plot.py at 2018-01-16 13:51:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 168.36 Mbit/s

95th percentile per-packet one-way delay: 164.043 ms

Loss rate: 0.63%

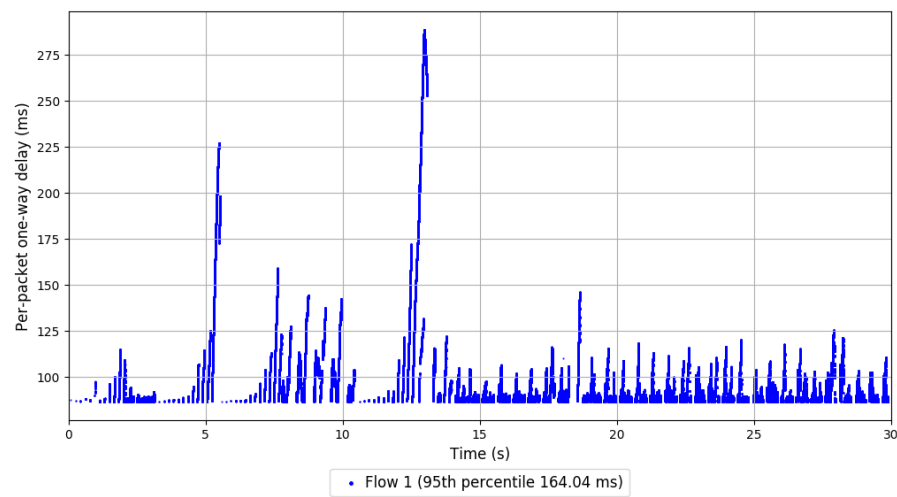
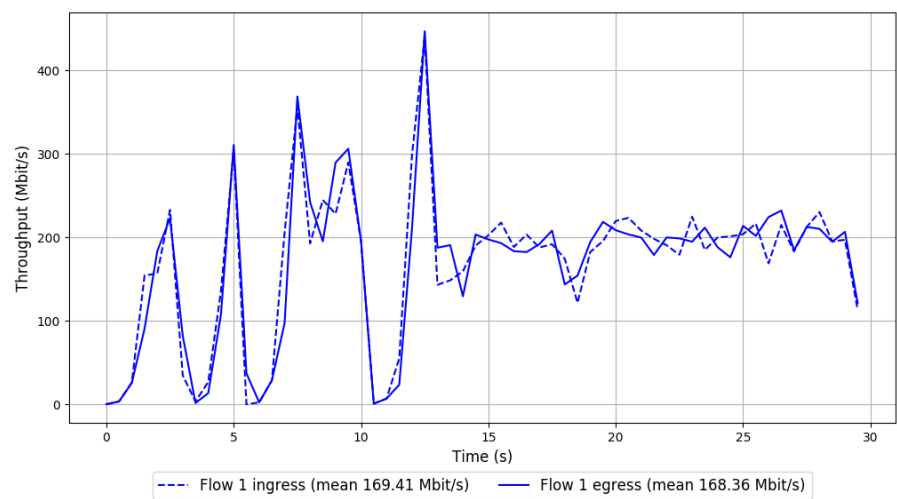
-- Flow 1:

Average throughput: 168.36 Mbit/s

95th percentile per-packet one-way delay: 164.043 ms

Loss rate: 0.63%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-01-16 11:34:56

End at: 2018-01-16 11:35:26

Below is generated by plot.py at 2018-01-16 13:51:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 126.97 Mbit/s

95th percentile per-packet one-way delay: 223.425 ms

Loss rate: 1.10%

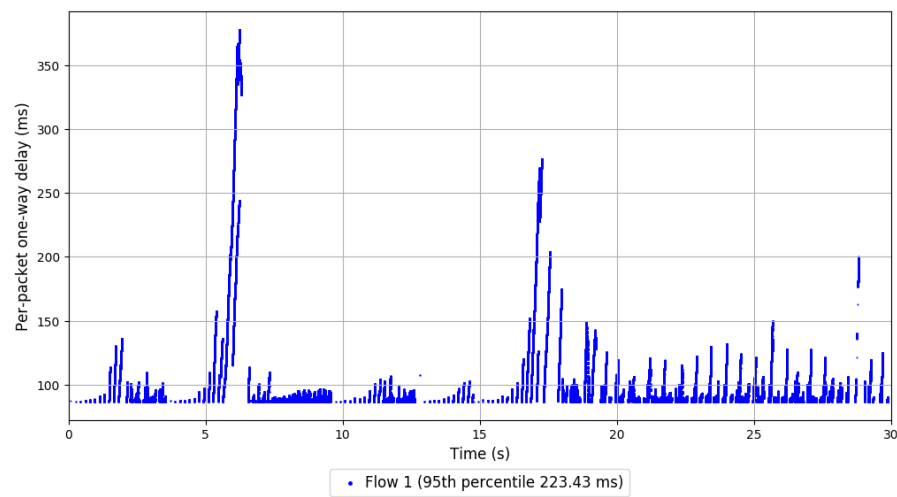
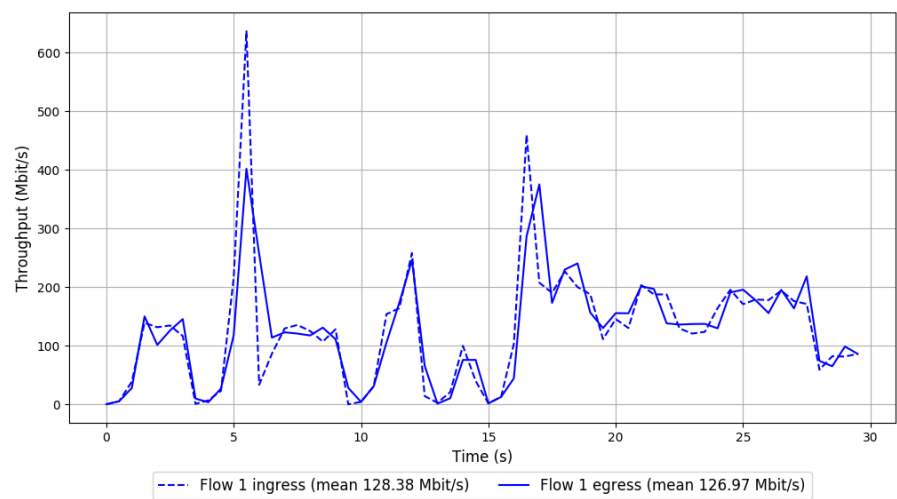
-- Flow 1:

Average throughput: 126.97 Mbit/s

95th percentile per-packet one-way delay: 223.425 ms

Loss rate: 1.10%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-01-16 11:49:36

End at: 2018-01-16 11:50:06

Below is generated by plot.py at 2018-01-16 13:53:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 185.43 Mbit/s

95th percentile per-packet one-way delay: 207.876 ms

Loss rate: 3.94%

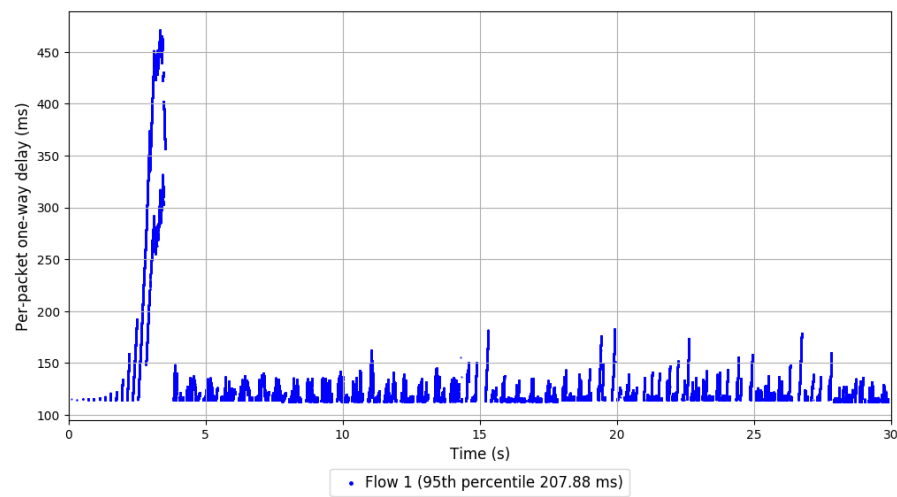
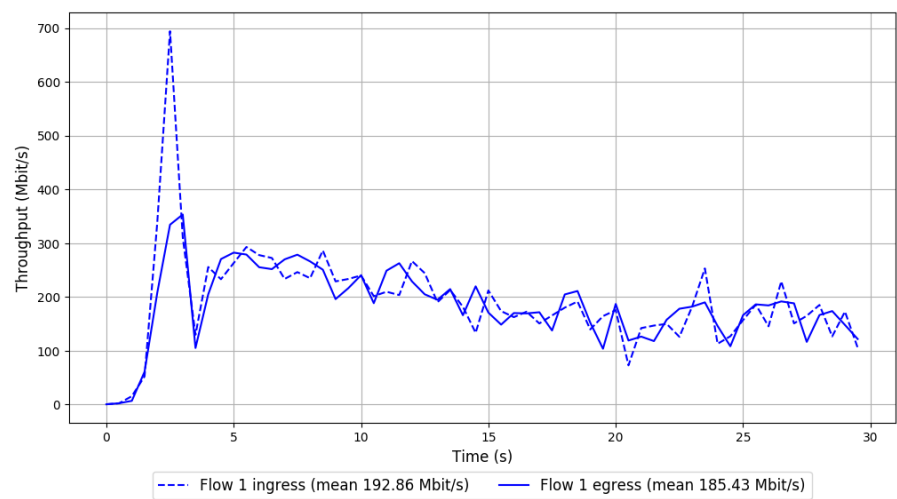
-- Flow 1:

Average throughput: 185.43 Mbit/s

95th percentile per-packet one-way delay: 207.876 ms

Loss rate: 3.94%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-01-16 12:03:19

End at: 2018-01-16 12:03:49

Below is generated by plot.py at 2018-01-16 13:53:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 179.53 Mbit/s

95th percentile per-packet one-way delay: 164.252 ms

Loss rate: 0.32%

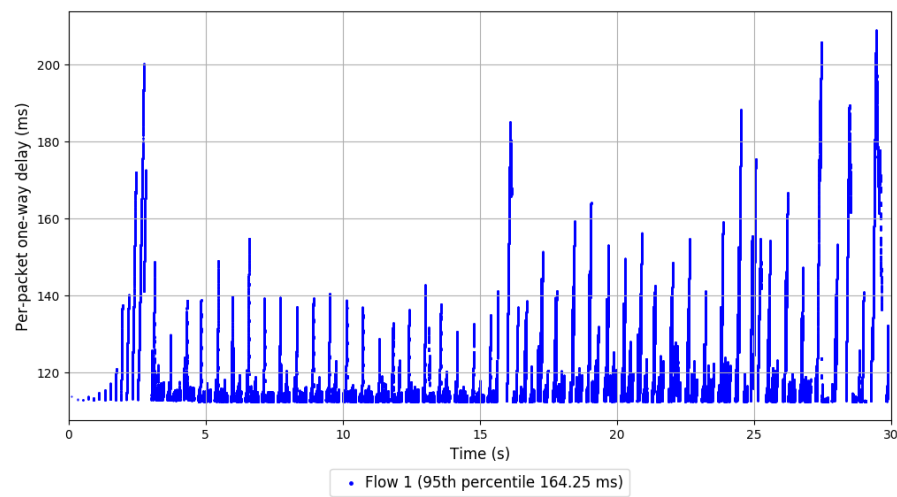
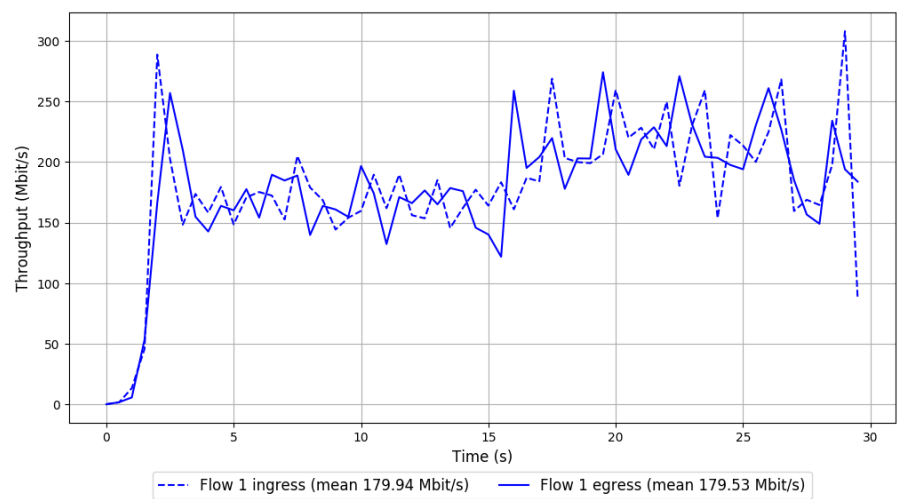
-- Flow 1:

Average throughput: 179.53 Mbit/s

95th percentile per-packet one-way delay: 164.252 ms

Loss rate: 0.32%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2018-01-16 09:52:29

End at: 2018-01-16 09:52:59

Below is generated by plot.py at 2018-01-16 13:53:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 24.12 Mbit/s

95th percentile per-packet one-way delay: 115.015 ms

Loss rate: 0.00%

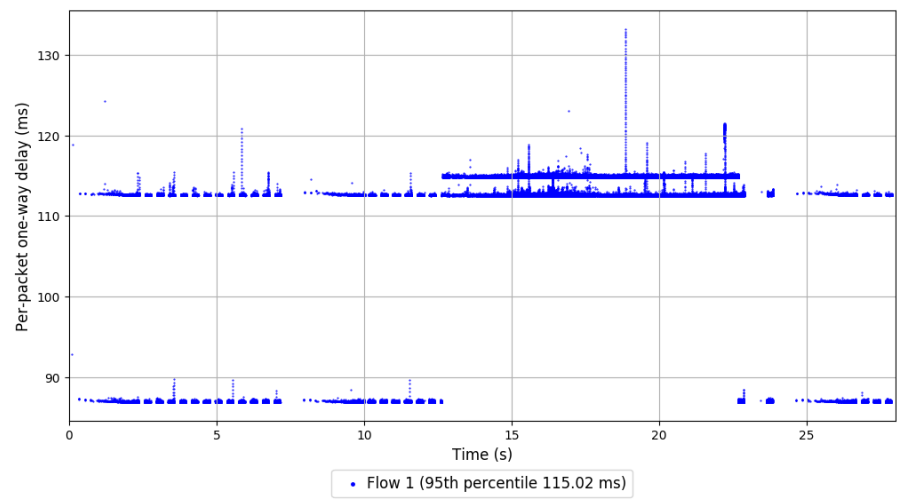
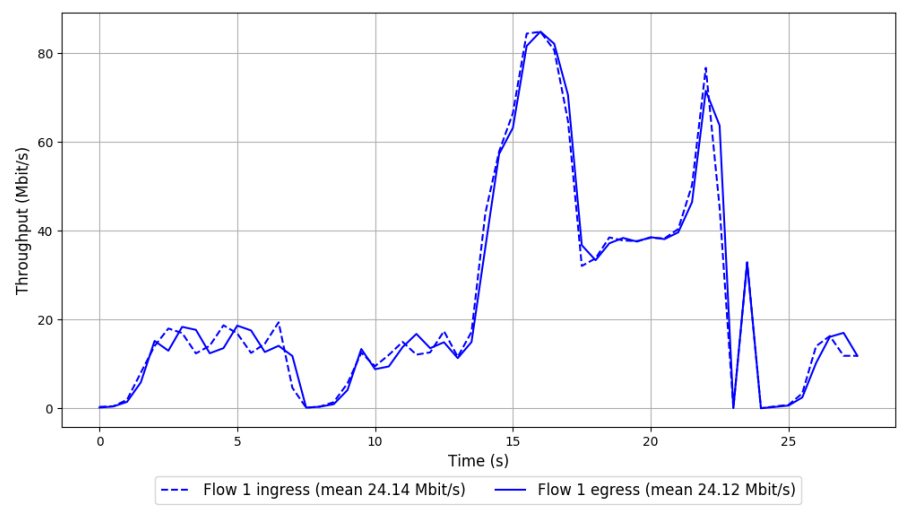
-- Flow 1:

Average throughput: 24.12 Mbit/s

95th percentile per-packet one-way delay: 115.015 ms

Loss rate: 0.00%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-01-16 10:05:57

End at: 2018-01-16 10:06:27

Below is generated by plot.py at 2018-01-16 13:53:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.58 Mbit/s

95th percentile per-packet one-way delay: 112.828 ms

Loss rate: 0.00%

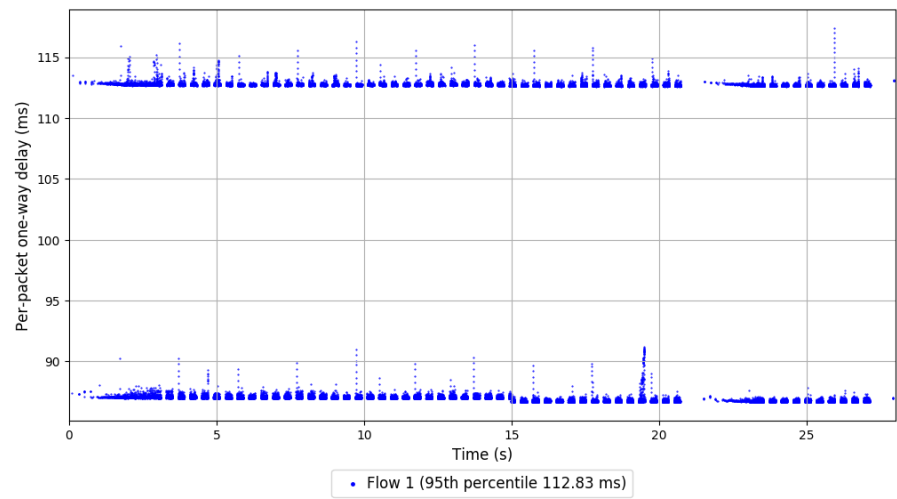
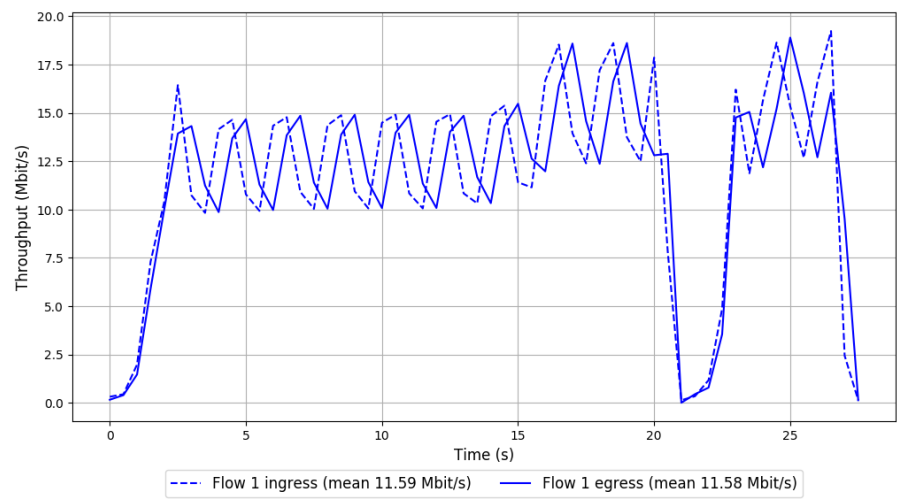
-- Flow 1:

Average throughput: 11.58 Mbit/s

95th percentile per-packet one-way delay: 112.828 ms

Loss rate: 0.00%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-01-16 10:20:01

End at: 2018-01-16 10:20:31

Below is generated by plot.py at 2018-01-16 13:53:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 36.11 Mbit/s

95th percentile per-packet one-way delay: 115.047 ms

Loss rate: 0.00%

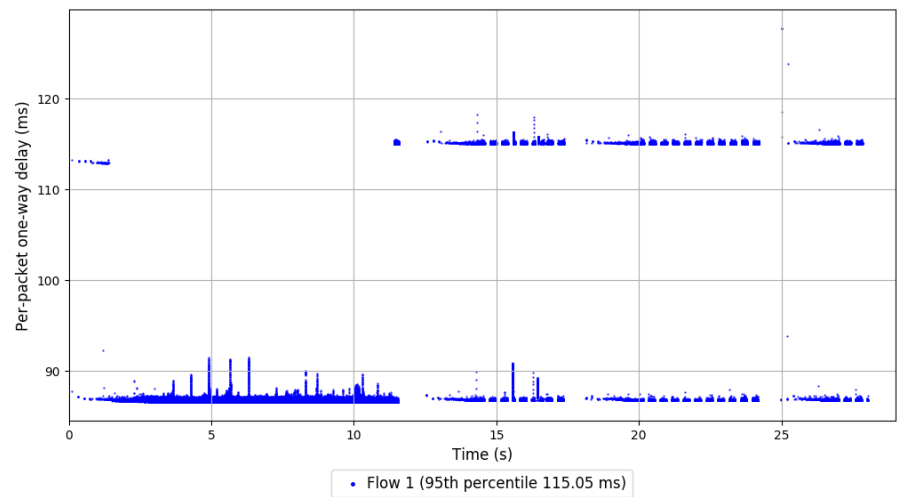
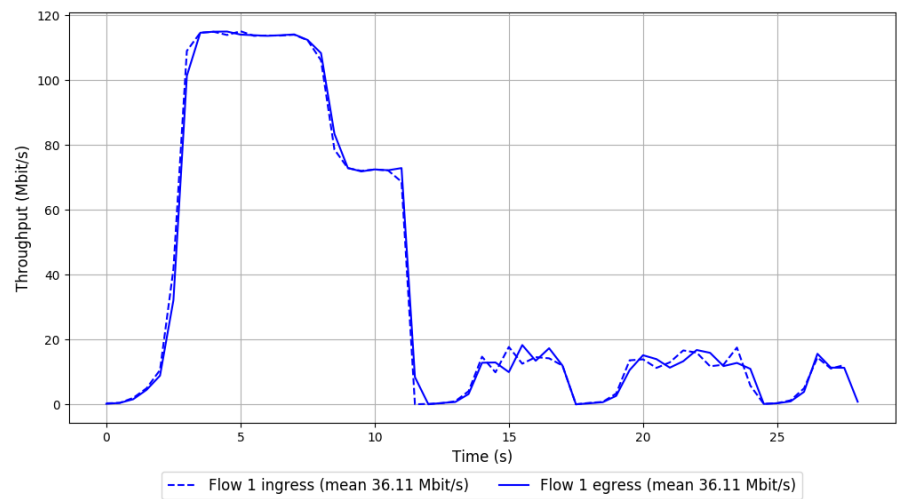
-- Flow 1:

Average throughput: 36.11 Mbit/s

95th percentile per-packet one-way delay: 115.047 ms

Loss rate: 0.00%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-01-16 10:33:50

End at: 2018-01-16 10:34:20

Below is generated by plot.py at 2018-01-16 13:53:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 67.62 Mbit/s

95th percentile per-packet one-way delay: 87.070 ms

Loss rate: 0.04%

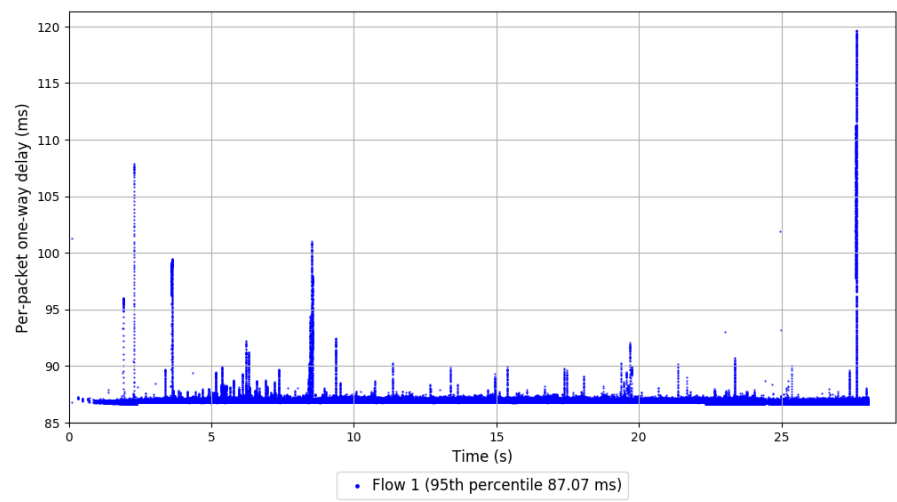
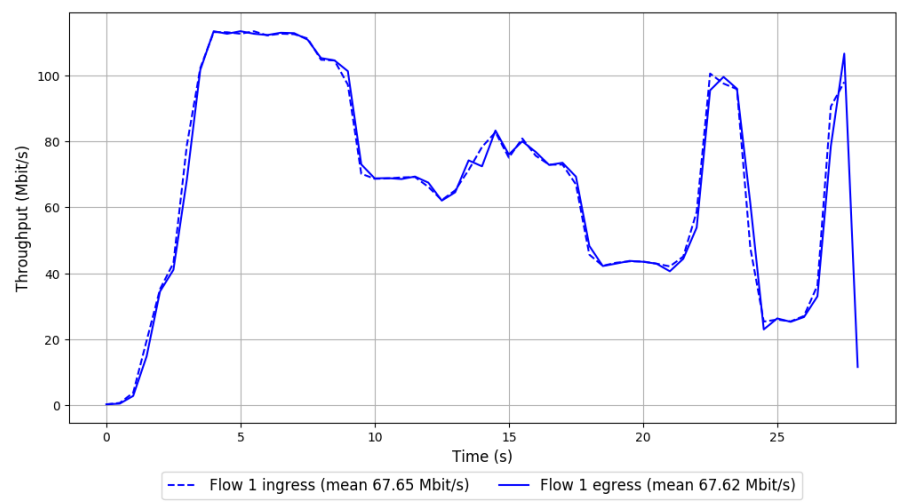
-- Flow 1:

Average throughput: 67.62 Mbit/s

95th percentile per-packet one-way delay: 87.070 ms

Loss rate: 0.04%

Run 4: Report of Copa — Data Link

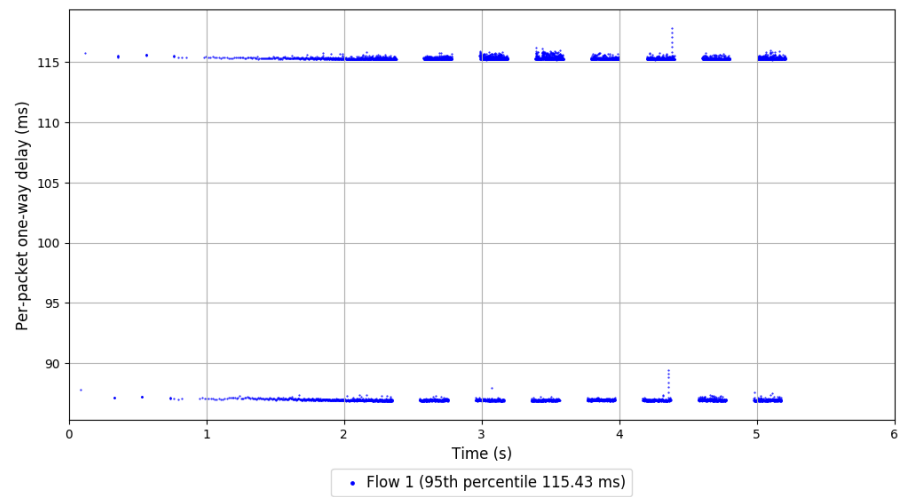
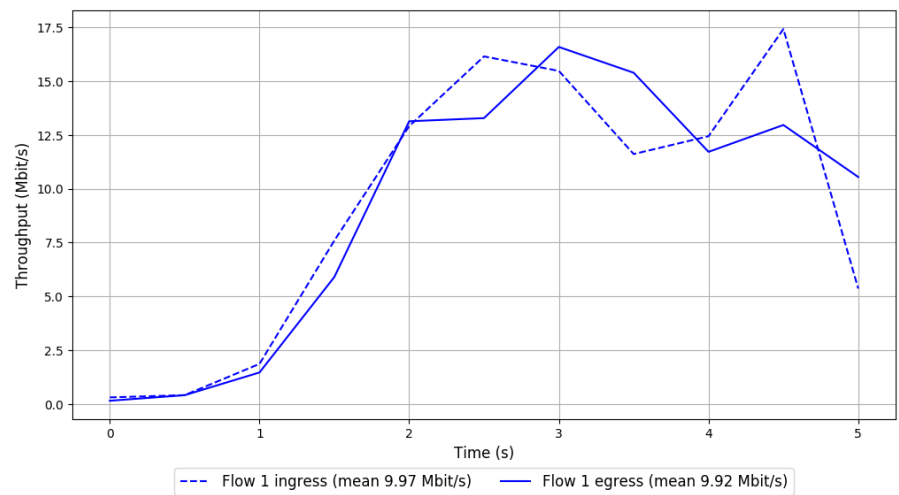


Run 5: Statistics of Copa

Start at: 2018-01-16 10:48:23

End at: 2018-01-16 10:48:53

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-01-16 11:02:11

End at: 2018-01-16 11:02:41

Below is generated by plot.py at 2018-01-16 13:53:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 32.93 Mbit/s

95th percentile per-packet one-way delay: 115.097 ms

Loss rate: 0.00%

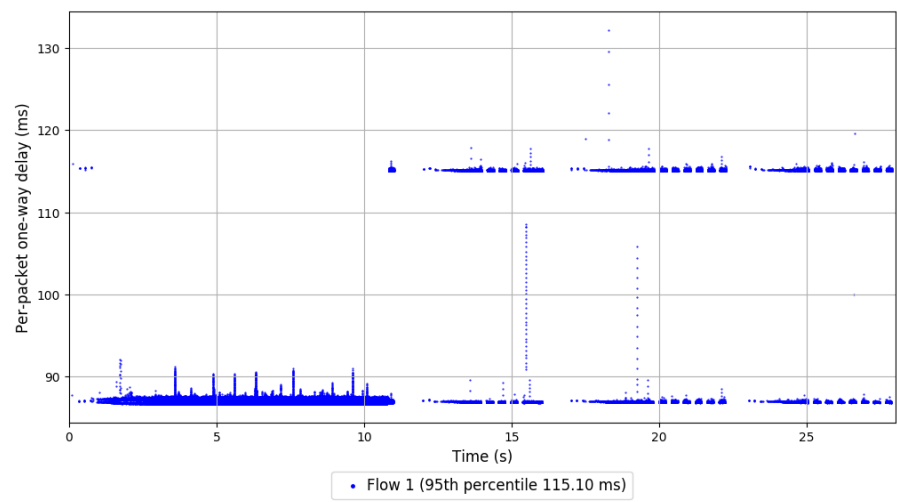
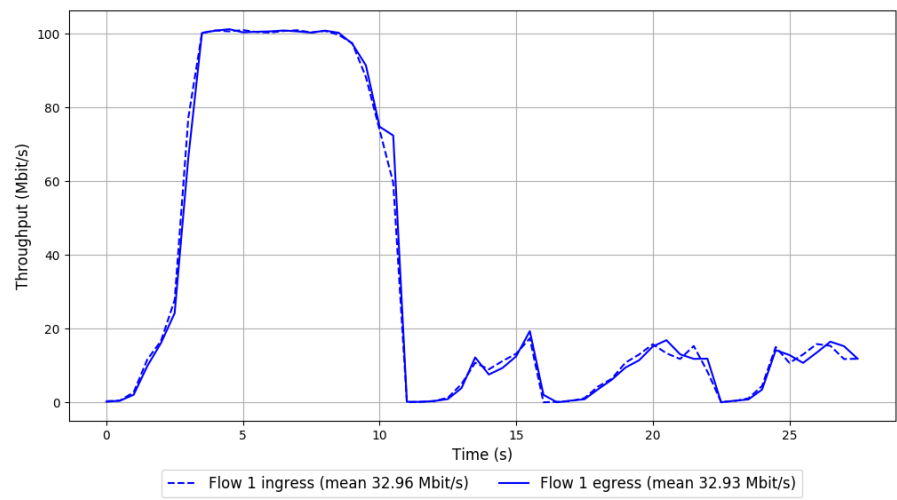
-- Flow 1:

Average throughput: 32.93 Mbit/s

95th percentile per-packet one-way delay: 115.097 ms

Loss rate: 0.00%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-01-16 11:16:04

End at: 2018-01-16 11:16:34

Below is generated by plot.py at 2018-01-16 13:53:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.05 Mbit/s

95th percentile per-packet one-way delay: 115.176 ms

Loss rate: 0.00%

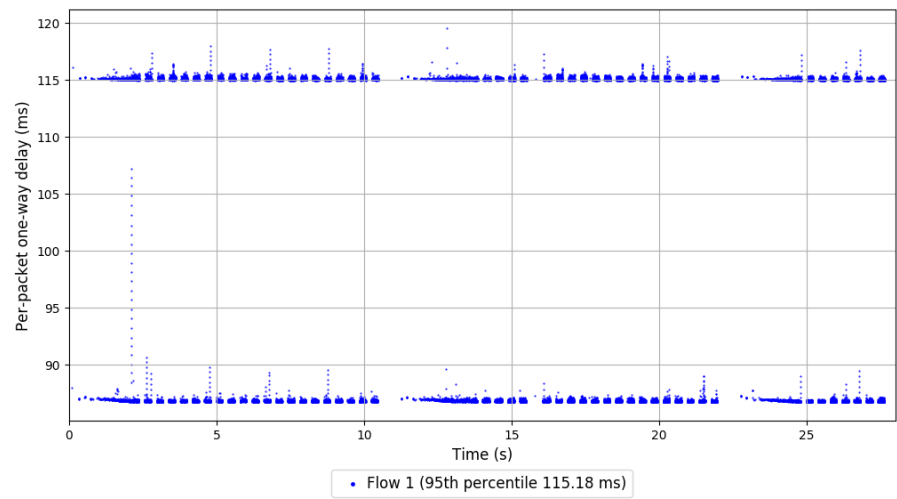
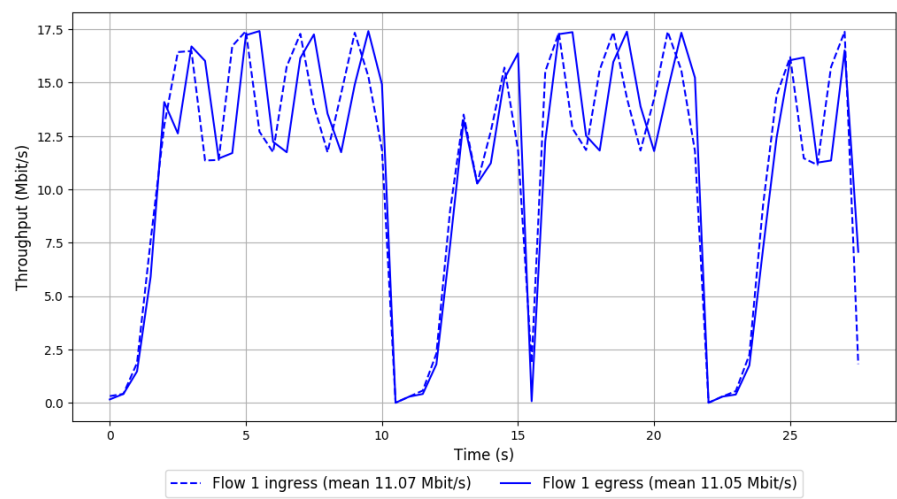
-- Flow 1:

Average throughput: 11.05 Mbit/s

95th percentile per-packet one-way delay: 115.176 ms

Loss rate: 0.00%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-01-16 11:29:58

End at: 2018-01-16 11:30:28

Below is generated by plot.py at 2018-01-16 13:53:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 65.48 Mbit/s

95th percentile per-packet one-way delay: 87.122 ms

Loss rate: 0.10%

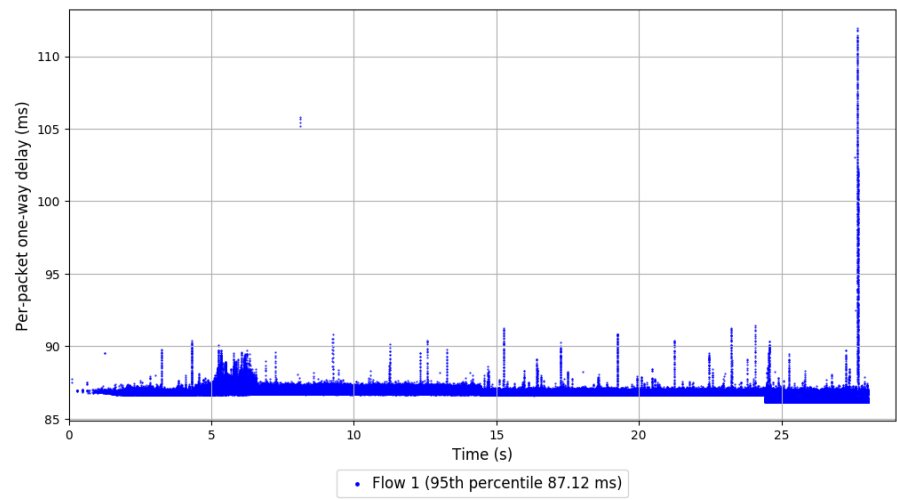
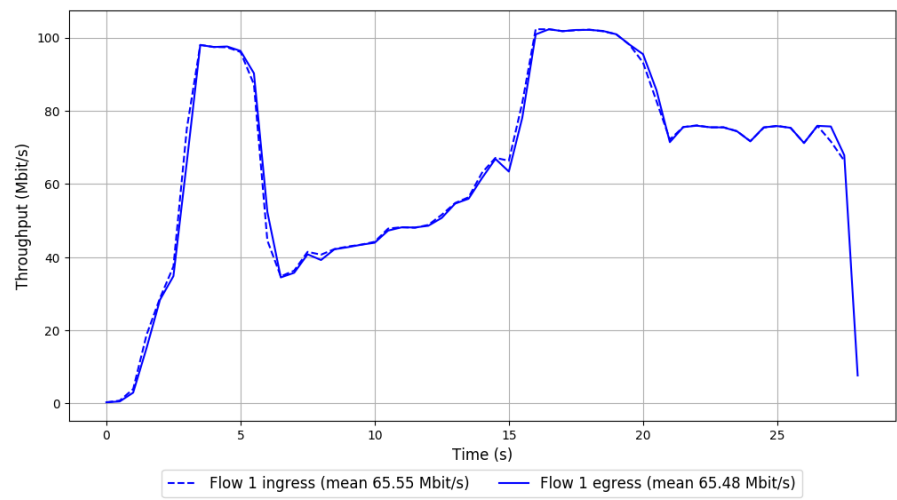
-- Flow 1:

Average throughput: 65.48 Mbit/s

95th percentile per-packet one-way delay: 87.122 ms

Loss rate: 0.10%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-01-16 11:44:21

End at: 2018-01-16 11:44:51

Below is generated by plot.py at 2018-01-16 13:53:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.80 Mbit/s

95th percentile per-packet one-way delay: 86.818 ms

Loss rate: 0.00%

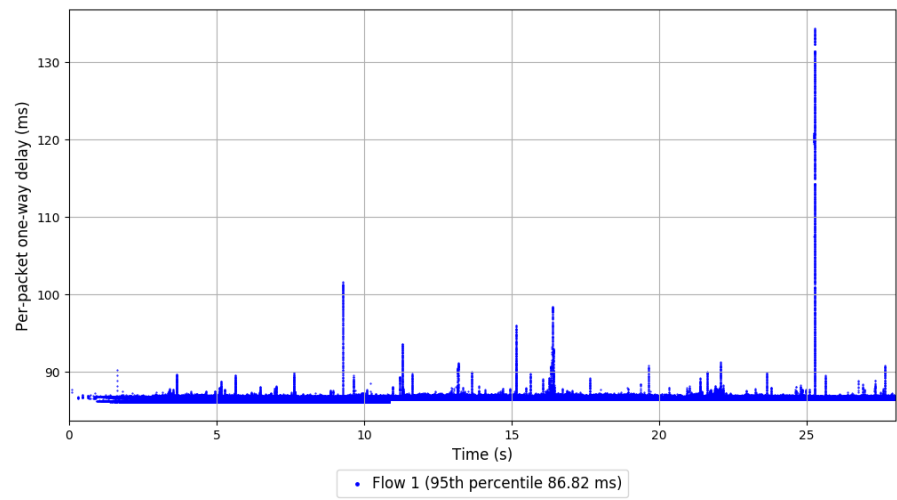
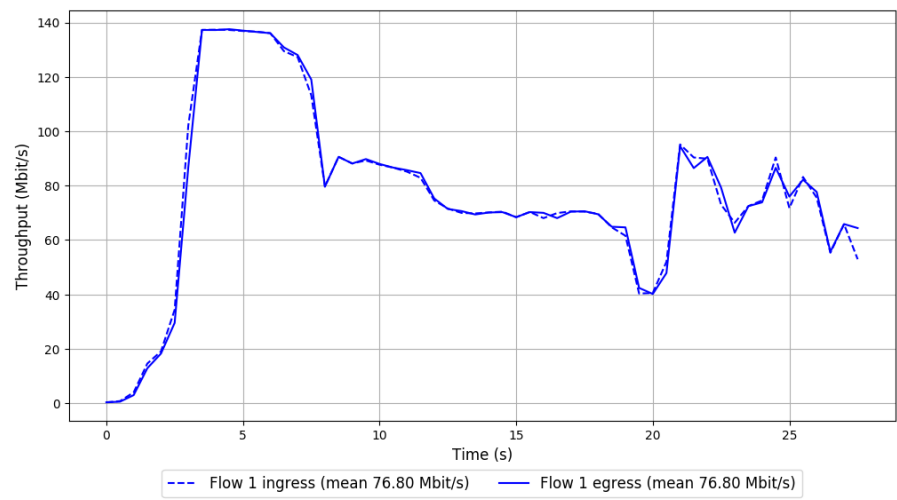
-- Flow 1:

Average throughput: 76.80 Mbit/s

95th percentile per-packet one-way delay: 86.818 ms

Loss rate: 0.00%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-01-16 11:58:28

End at: 2018-01-16 11:58:58

Below is generated by plot.py at 2018-01-16 13:53:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 34.35 Mbit/s

95th percentile per-packet one-way delay: 114.532 ms

Loss rate: 0.08%

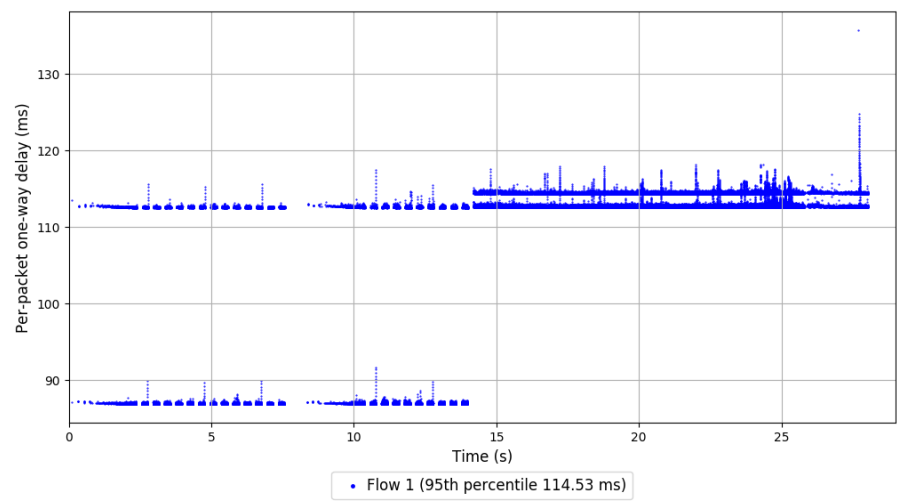
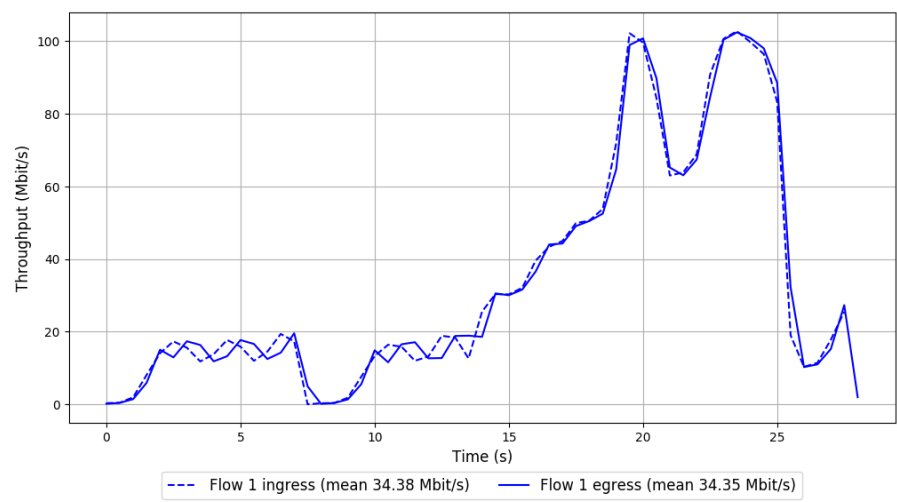
-- Flow 1:

Average throughput: 34.35 Mbit/s

95th percentile per-packet one-way delay: 114.532 ms

Loss rate: 0.08%

Run 10: Report of Copa — Data Link

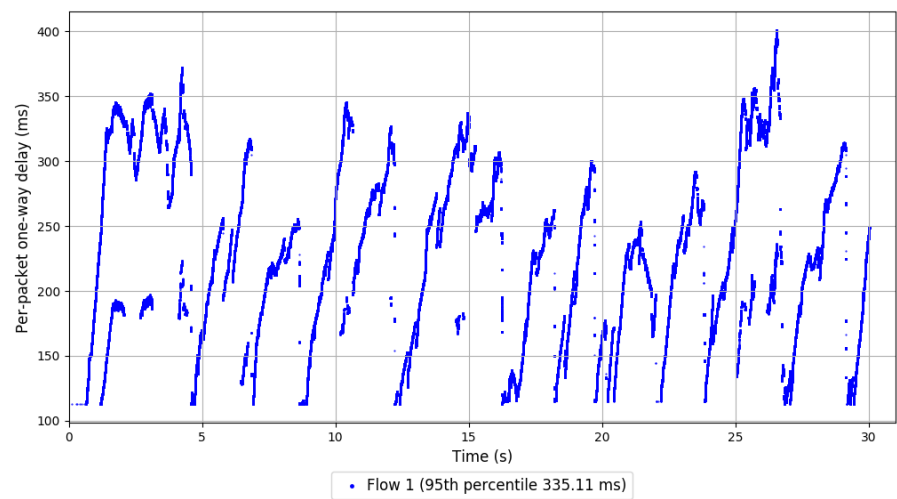
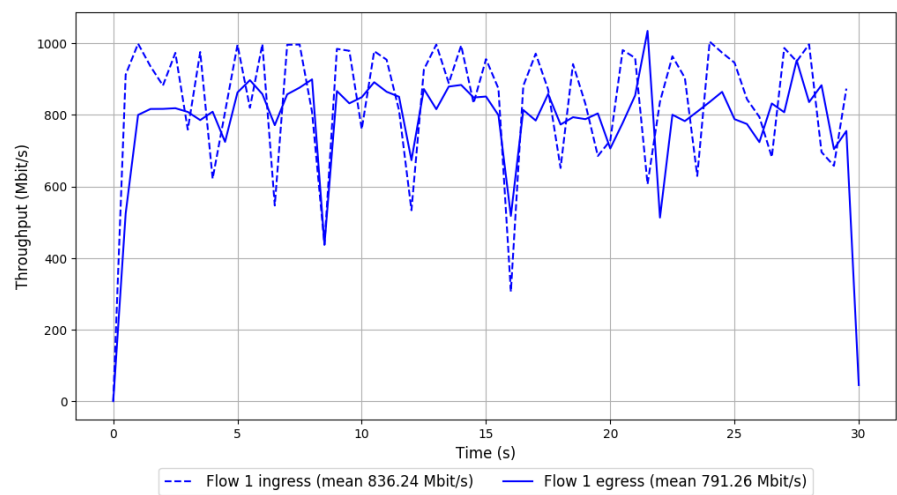


```
Run 1: Statistics of FillP

Start at: 2018-01-16 10:01:08
End at: 2018-01-16 10:01:38

# Below is generated by plot.py at 2018-01-16 14:07:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 791.26 Mbit/s
95th percentile per-packet one-way delay: 335.113 ms
Loss rate: 5.46%
-- Flow 1:
Average throughput: 791.26 Mbit/s
95th percentile per-packet one-way delay: 335.113 ms
Loss rate: 5.46%
```


Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-01-16 10:14:40

End at: 2018-01-16 10:15:10

Below is generated by plot.py at 2018-01-16 14:08:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 861.51 Mbit/s

95th percentile per-packet one-way delay: 286.766 ms

Loss rate: 3.93%

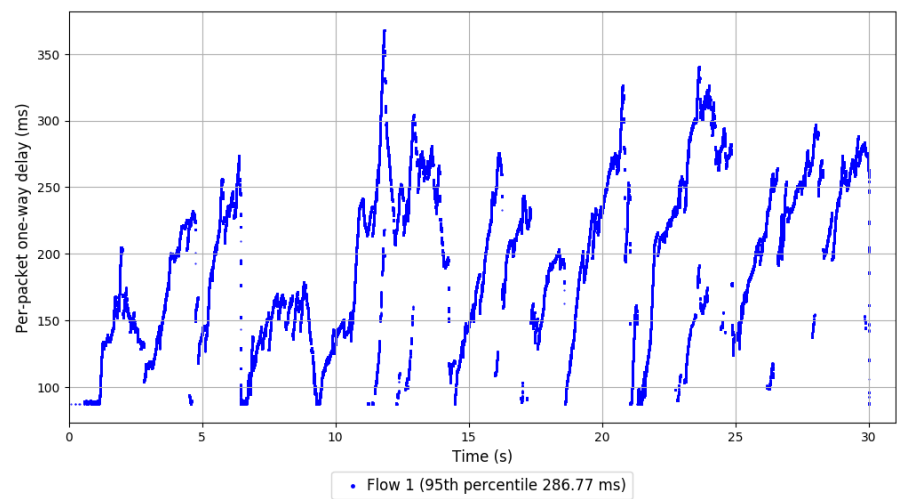
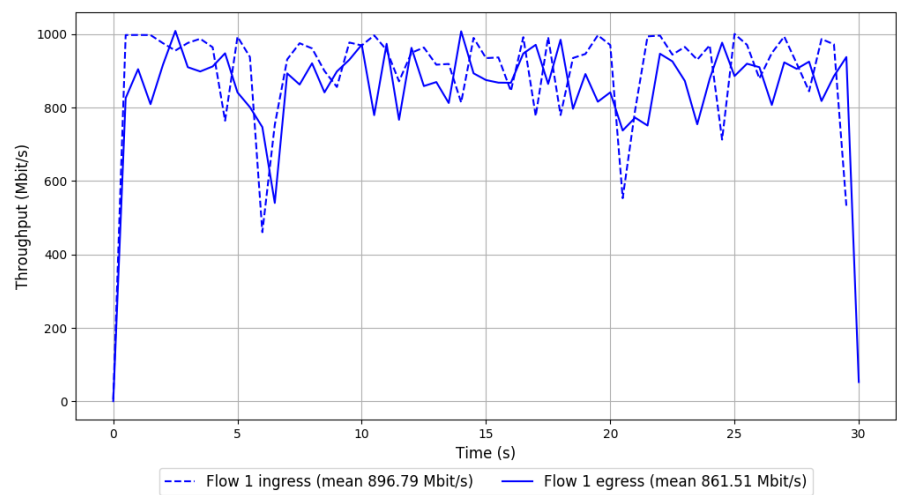
-- Flow 1:

Average throughput: 861.51 Mbit/s

95th percentile per-packet one-way delay: 286.766 ms

Loss rate: 3.93%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-01-16 10:28:53

End at: 2018-01-16 10:29:23

Below is generated by plot.py at 2018-01-16 14:08:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 695.96 Mbit/s

95th percentile per-packet one-way delay: 340.482 ms

Loss rate: 3.79%

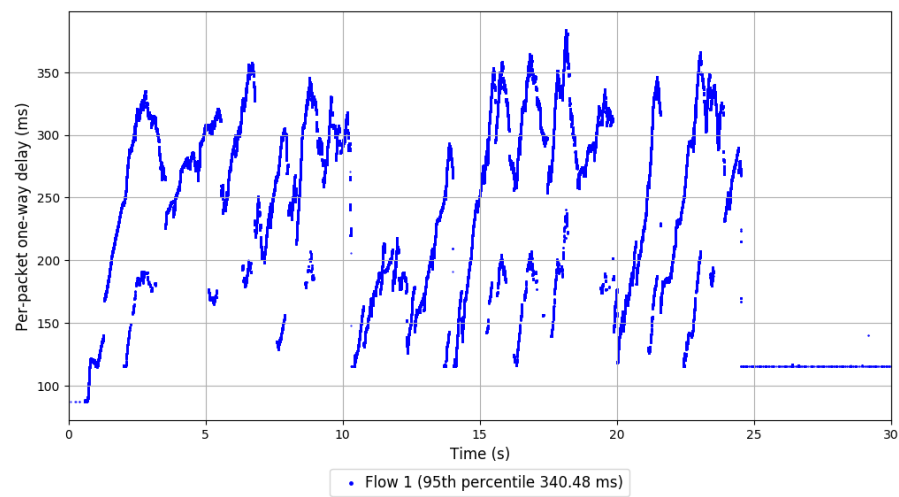
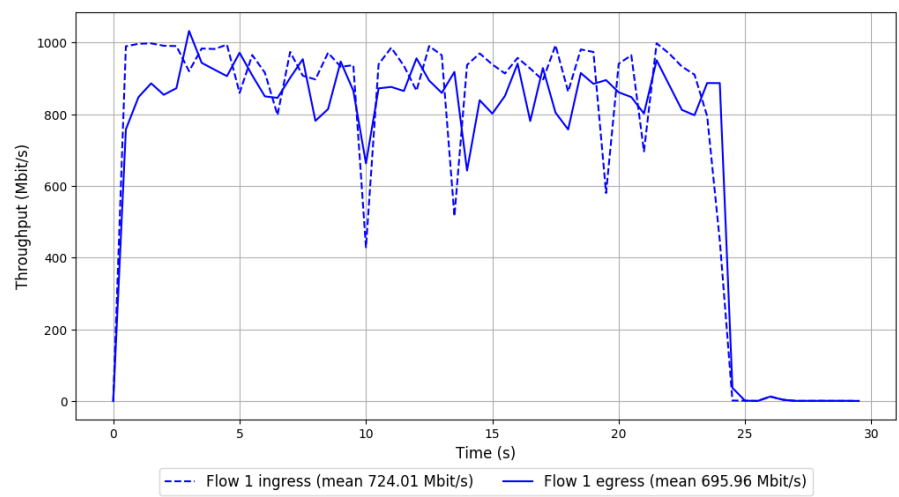
-- Flow 1:

Average throughput: 695.96 Mbit/s

95th percentile per-packet one-way delay: 340.482 ms

Loss rate: 3.79%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-01-16 10:42:54

End at: 2018-01-16 10:43:24

Below is generated by plot.py at 2018-01-16 14:08:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 782.72 Mbit/s

95th percentile per-packet one-way delay: 342.430 ms

Loss rate: 8.15%

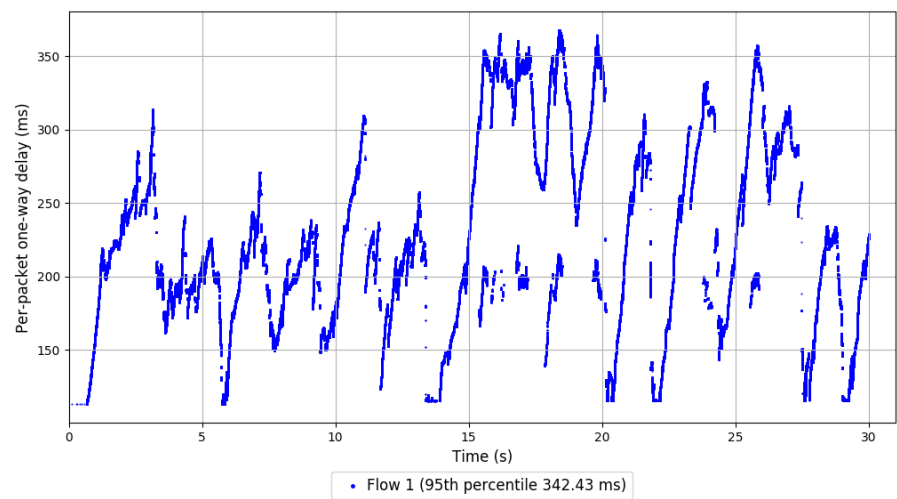
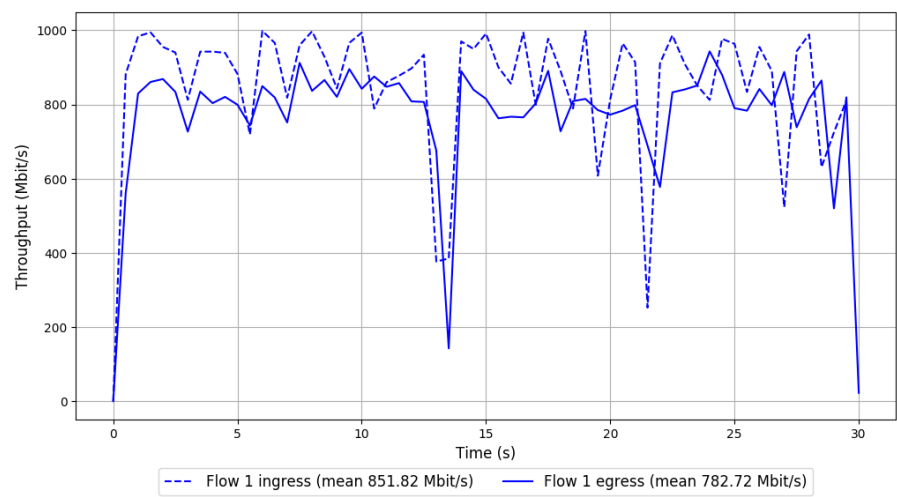
-- Flow 1:

Average throughput: 782.72 Mbit/s

95th percentile per-packet one-way delay: 342.430 ms

Loss rate: 8.15%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-01-16 10:57:01

End at: 2018-01-16 10:57:31

Below is generated by plot.py at 2018-01-16 14:08:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 834.52 Mbit/s

95th percentile per-packet one-way delay: 331.064 ms

Loss rate: 6.02%

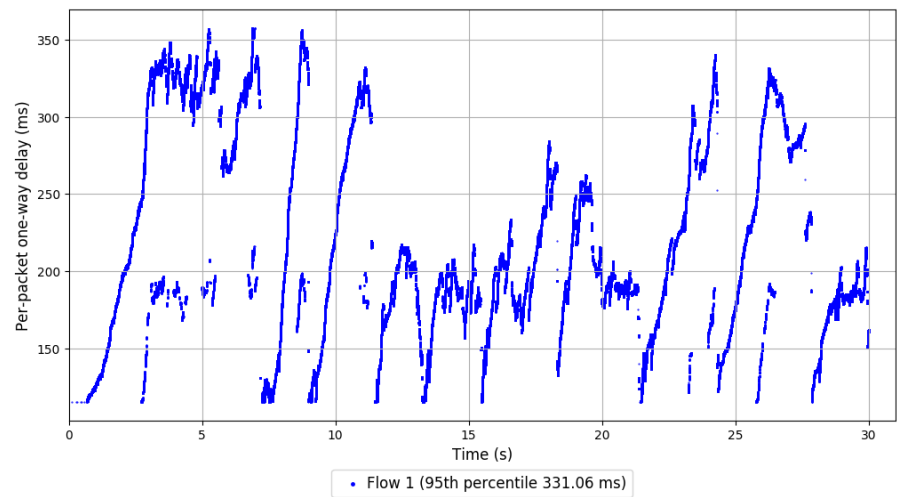
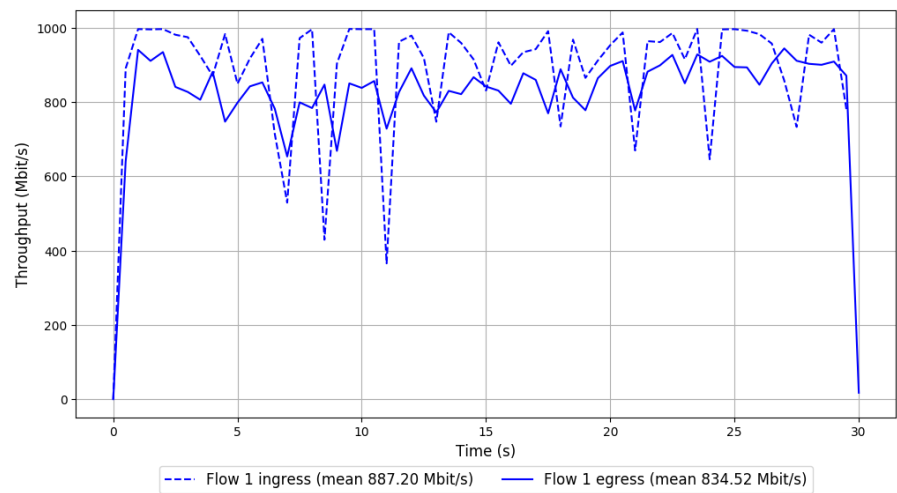
-- Flow 1:

Average throughput: 834.52 Mbit/s

95th percentile per-packet one-way delay: 331.064 ms

Loss rate: 6.02%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-01-16 11:10:53

End at: 2018-01-16 11:11:23

Below is generated by plot.py at 2018-01-16 14:09:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 847.89 Mbit/s

95th percentile per-packet one-way delay: 295.432 ms

Loss rate: 6.61%

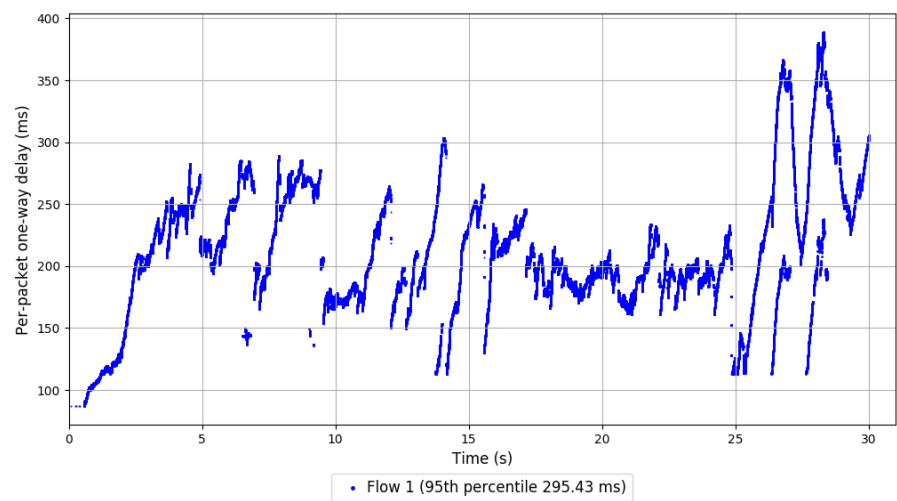
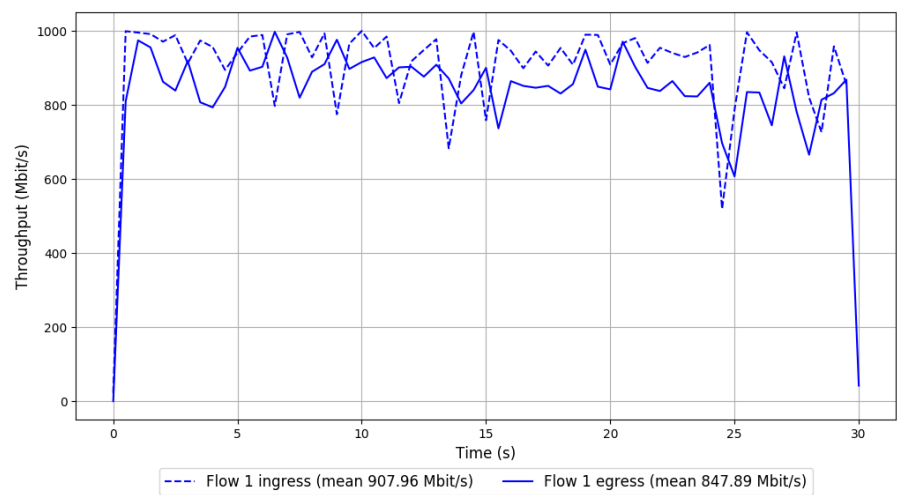
-- Flow 1:

Average throughput: 847.89 Mbit/s

95th percentile per-packet one-way delay: 295.432 ms

Loss rate: 6.61%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-01-16 11:24:45

End at: 2018-01-16 11:25:15

Below is generated by plot.py at 2018-01-16 14:09:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 764.02 Mbit/s

95th percentile per-packet one-way delay: 337.236 ms

Loss rate: 11.55%

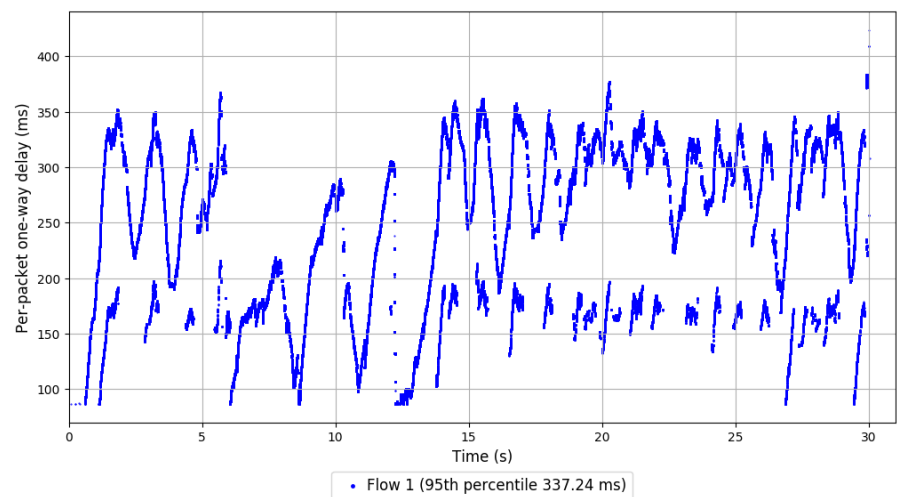
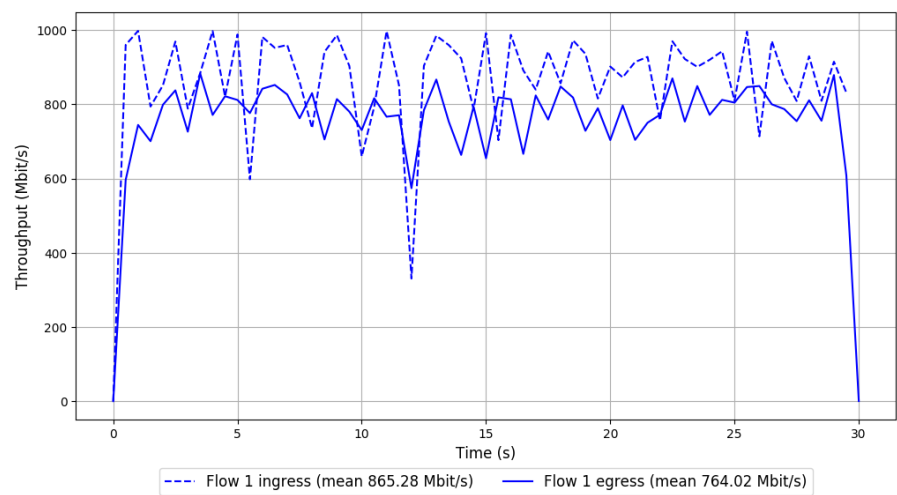
-- Flow 1:

Average throughput: 764.02 Mbit/s

95th percentile per-packet one-way delay: 337.236 ms

Loss rate: 11.55%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-01-16 11:38:45

End at: 2018-01-16 11:39:15

Below is generated by plot.py at 2018-01-16 14:11:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 873.42 Mbit/s

95th percentile per-packet one-way delay: 313.826 ms

Loss rate: 6.25%

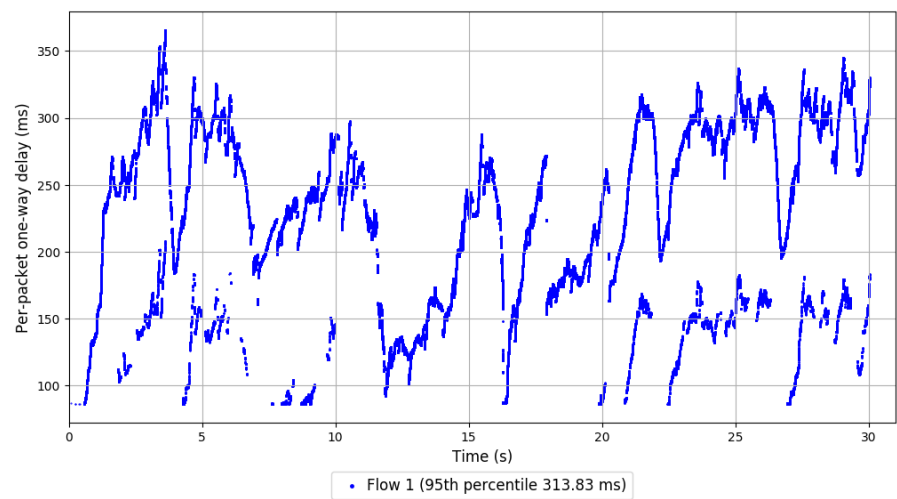
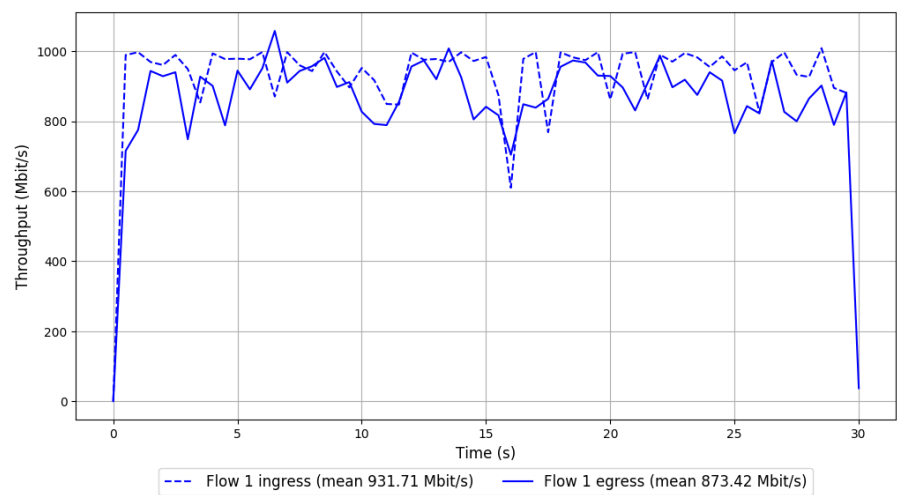
-- Flow 1:

Average throughput: 873.42 Mbit/s

95th percentile per-packet one-way delay: 313.826 ms

Loss rate: 6.25%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-01-16 11:53:26

End at: 2018-01-16 11:53:56

Below is generated by plot.py at 2018-01-16 14:21:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 773.25 Mbit/s

95th percentile per-packet one-way delay: 352.760 ms

Loss rate: 4.33%

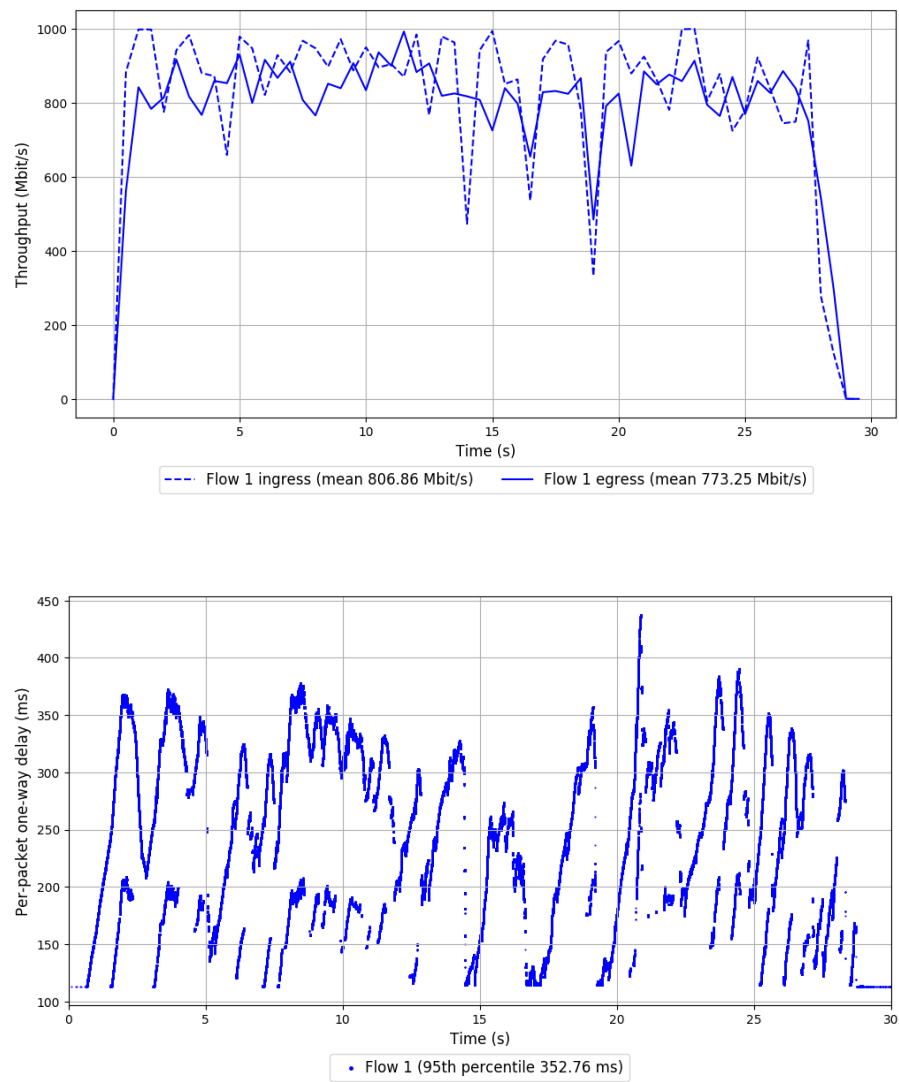
-- Flow 1:

Average throughput: 773.25 Mbit/s

95th percentile per-packet one-way delay: 352.760 ms

Loss rate: 4.33%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-01-16 12:07:10

End at: 2018-01-16 12:07:40

Below is generated by plot.py at 2018-01-16 14:21:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 818.96 Mbit/s

95th percentile per-packet one-way delay: 324.282 ms

Loss rate: 6.36%

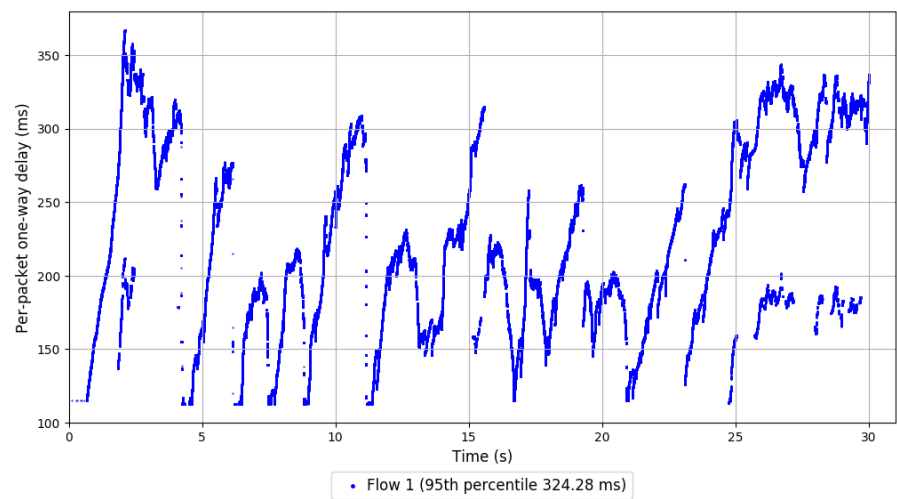
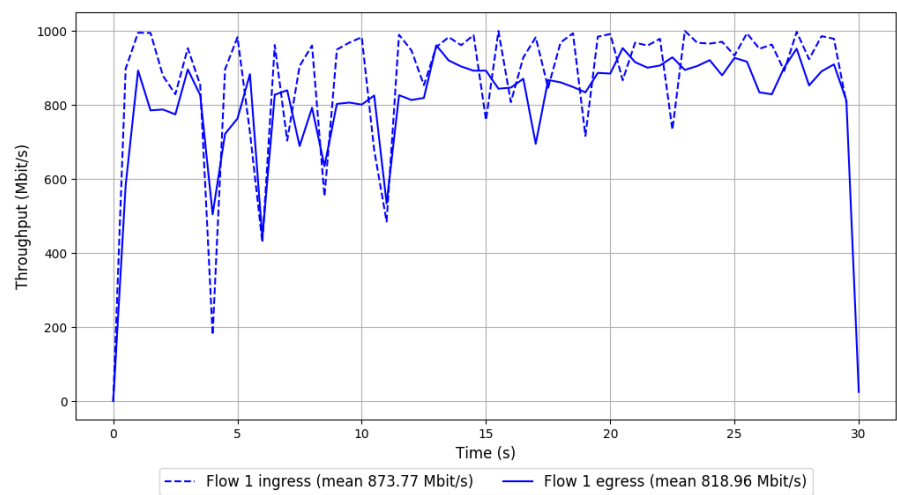
-- Flow 1:

Average throughput: 818.96 Mbit/s

95th percentile per-packet one-way delay: 324.282 ms

Loss rate: 6.36%

Run 10: Report of FillP — Data Link

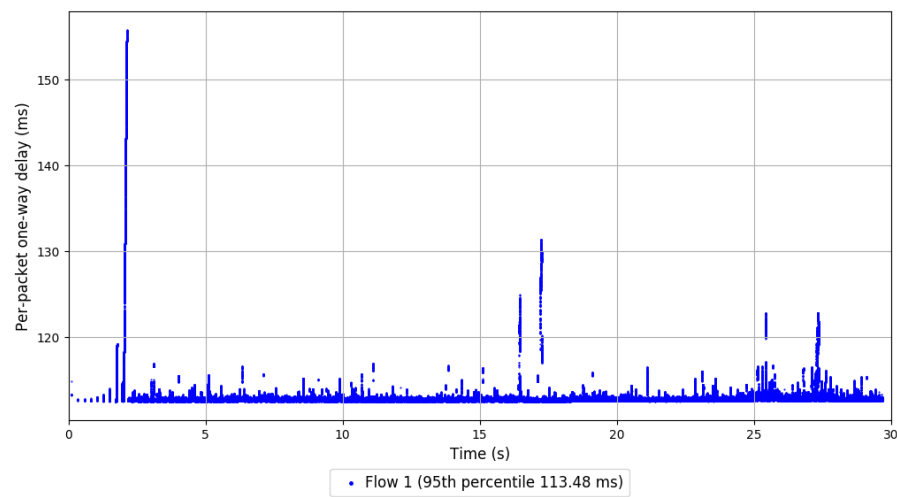
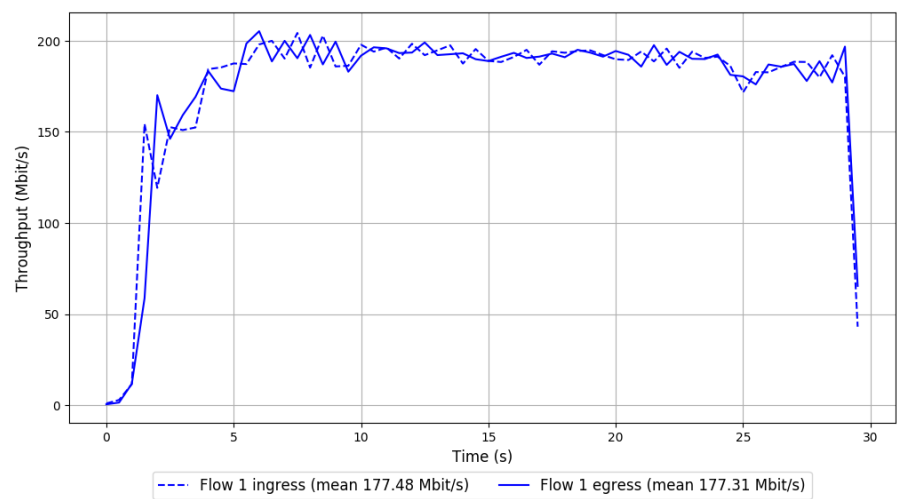


```
Run 1: Statistics of Indigo

Start at: 2018-01-16 09:59:36
End at: 2018-01-16 10:00:06

# Below is generated by plot.py at 2018-01-16 14:21:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 177.31 Mbit/s
95th percentile per-packet one-way delay: 113.476 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 177.31 Mbit/s
95th percentile per-packet one-way delay: 113.476 ms
Loss rate: 0.18%
```

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2018-01-16 10:13:09

End at: 2018-01-16 10:13:39

Below is generated by plot.py at 2018-01-16 14:21:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 178.81 Mbit/s

95th percentile per-packet one-way delay: 113.541 ms

Loss rate: 0.18%

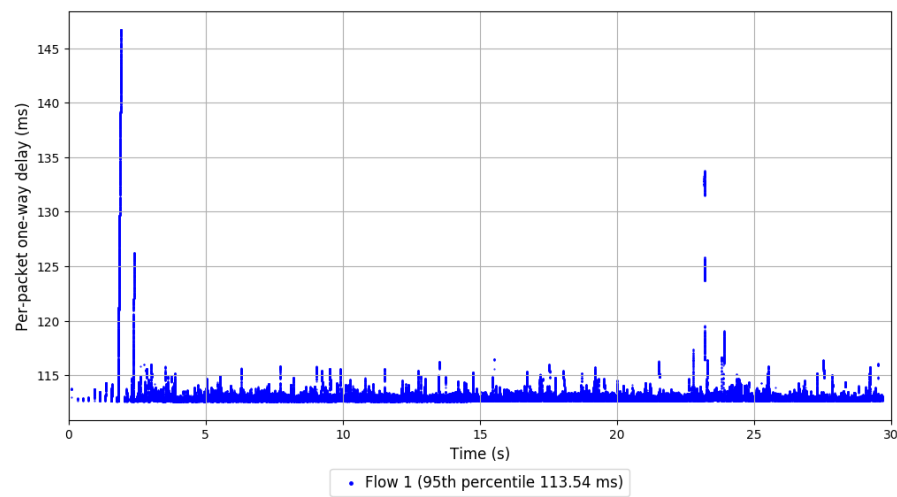
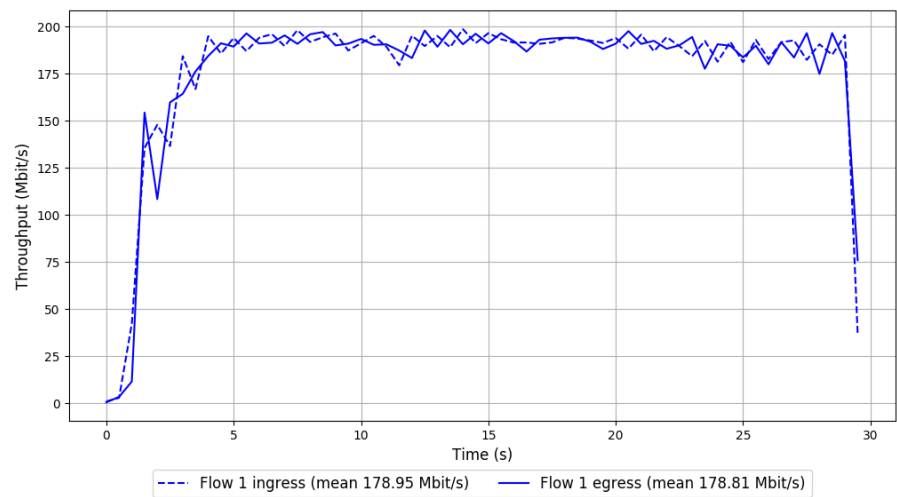
-- Flow 1:

Average throughput: 178.81 Mbit/s

95th percentile per-packet one-way delay: 113.541 ms

Loss rate: 0.18%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-01-16 10:27:20

End at: 2018-01-16 10:27:50

Below is generated by plot.py at 2018-01-16 14:21:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 184.49 Mbit/s

95th percentile per-packet one-way delay: 87.352 ms

Loss rate: 0.00%

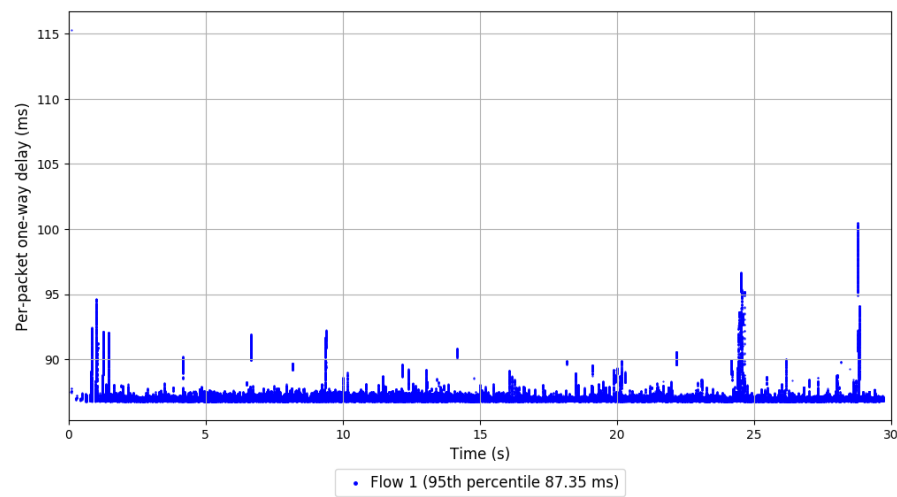
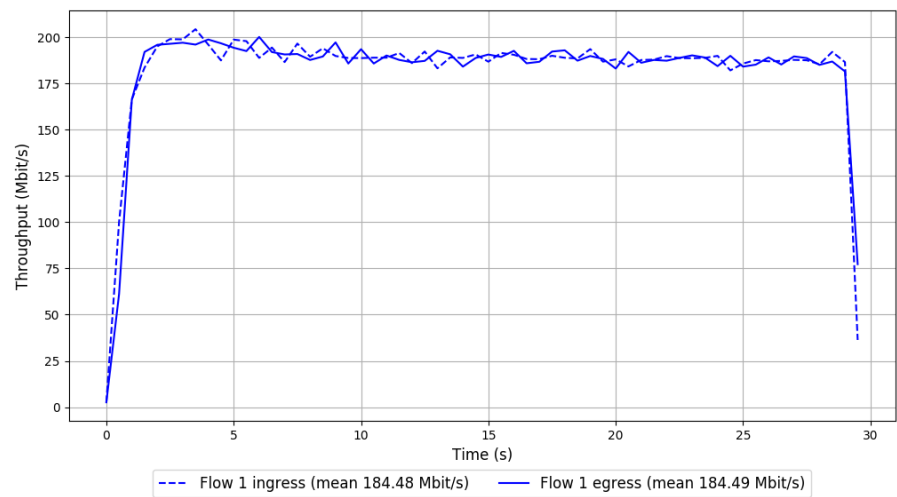
-- Flow 1:

Average throughput: 184.49 Mbit/s

95th percentile per-packet one-way delay: 87.352 ms

Loss rate: 0.00%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-01-16 10:41:22

End at: 2018-01-16 10:41:52

Below is generated by plot.py at 2018-01-16 14:21:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 184.43 Mbit/s

95th percentile per-packet one-way delay: 87.297 ms

Loss rate: 0.00%

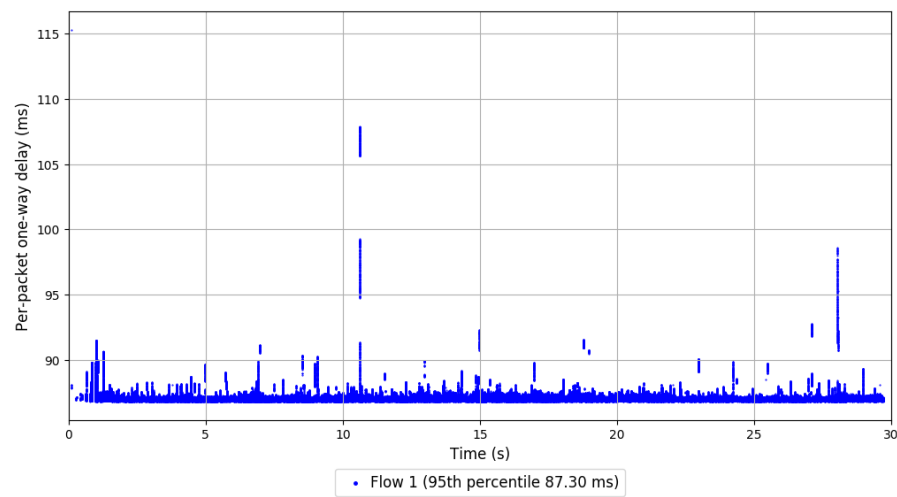
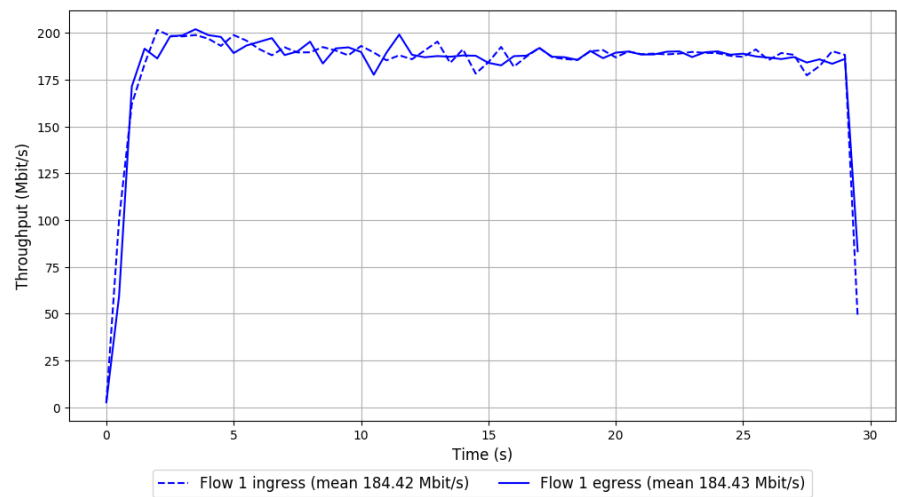
-- Flow 1:

Average throughput: 184.43 Mbit/s

95th percentile per-packet one-way delay: 87.297 ms

Loss rate: 0.00%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-01-16 10:55:33

End at: 2018-01-16 10:56:03

Below is generated by plot.py at 2018-01-16 14:21:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 136.10 Mbit/s

95th percentile per-packet one-way delay: 88.092 ms

Loss rate: 0.00%

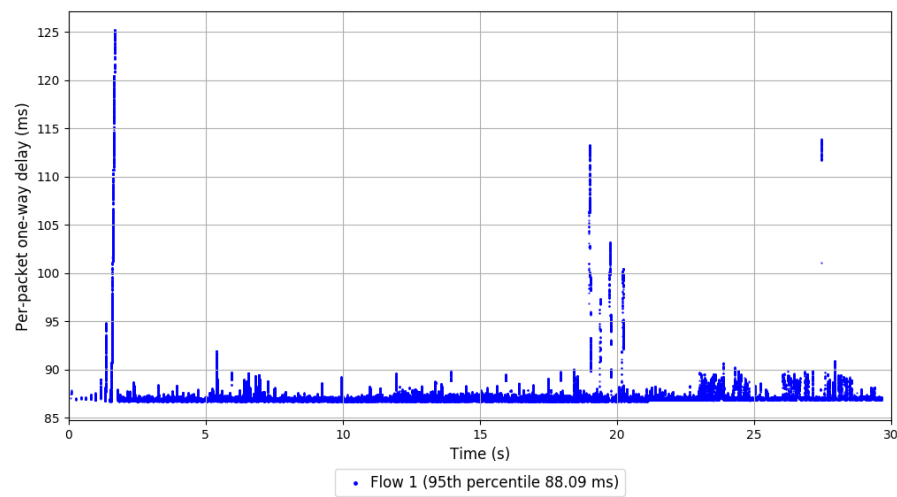
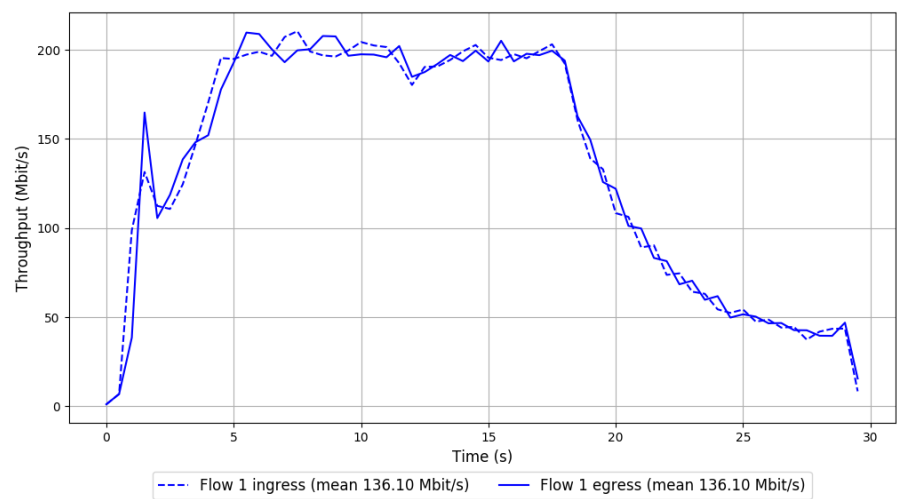
-- Flow 1:

Average throughput: 136.10 Mbit/s

95th percentile per-packet one-way delay: 88.092 ms

Loss rate: 0.00%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2018-01-16 11:09:21

End at: 2018-01-16 11:09:51

Below is generated by plot.py at 2018-01-16 14:21:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 181.68 Mbit/s

95th percentile per-packet one-way delay: 87.444 ms

Loss rate: 0.16%

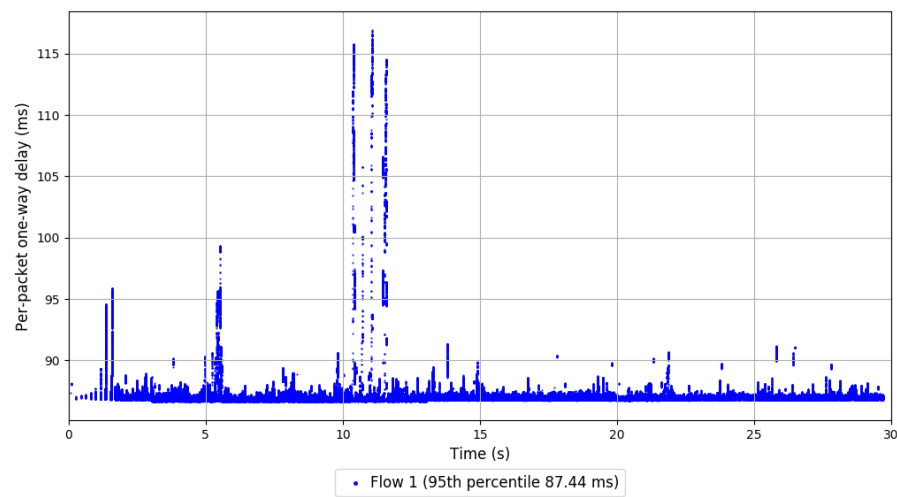
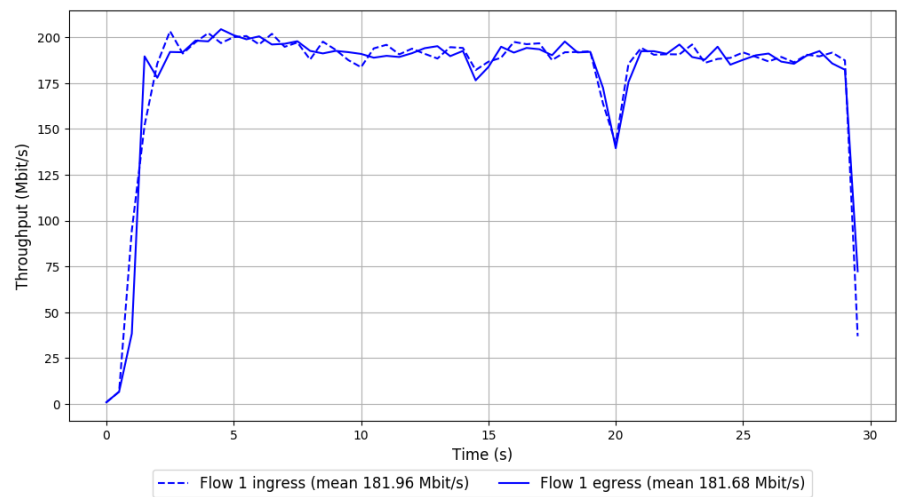
-- Flow 1:

Average throughput: 181.68 Mbit/s

95th percentile per-packet one-way delay: 87.444 ms

Loss rate: 0.16%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2018-01-16 11:23:14

End at: 2018-01-16 11:23:44

Below is generated by plot.py at 2018-01-16 14:21:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 182.76 Mbit/s

95th percentile per-packet one-way delay: 87.568 ms

Loss rate: 0.00%

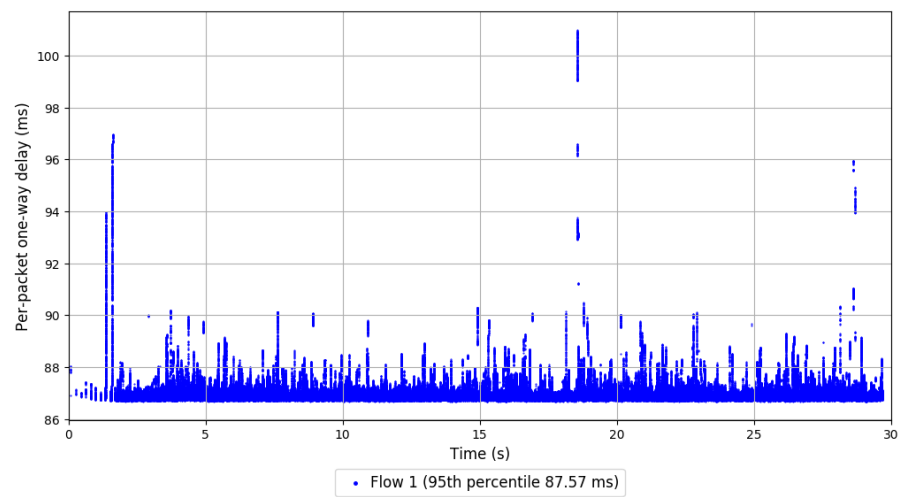
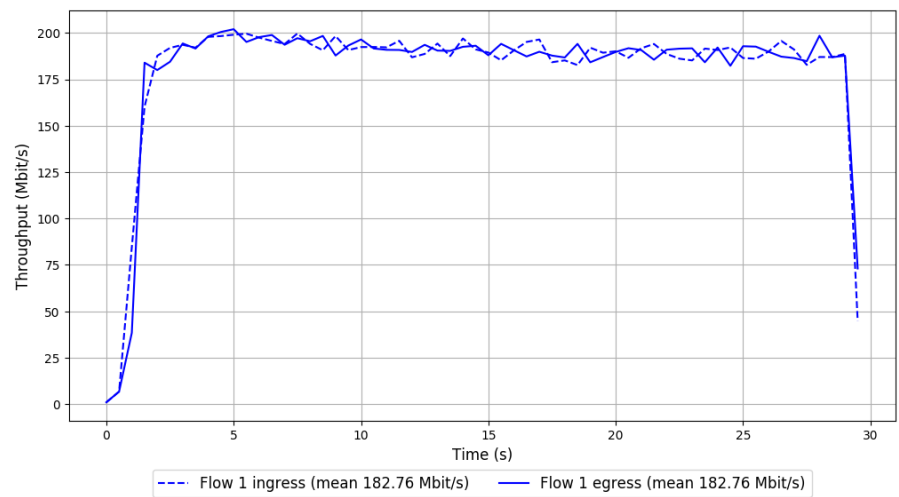
-- Flow 1:

Average throughput: 182.76 Mbit/s

95th percentile per-packet one-way delay: 87.568 ms

Loss rate: 0.00%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2018-01-16 11:37:13

End at: 2018-01-16 11:37:43

Below is generated by plot.py at 2018-01-16 14:21:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 182.49 Mbit/s

95th percentile per-packet one-way delay: 87.456 ms

Loss rate: 0.00%

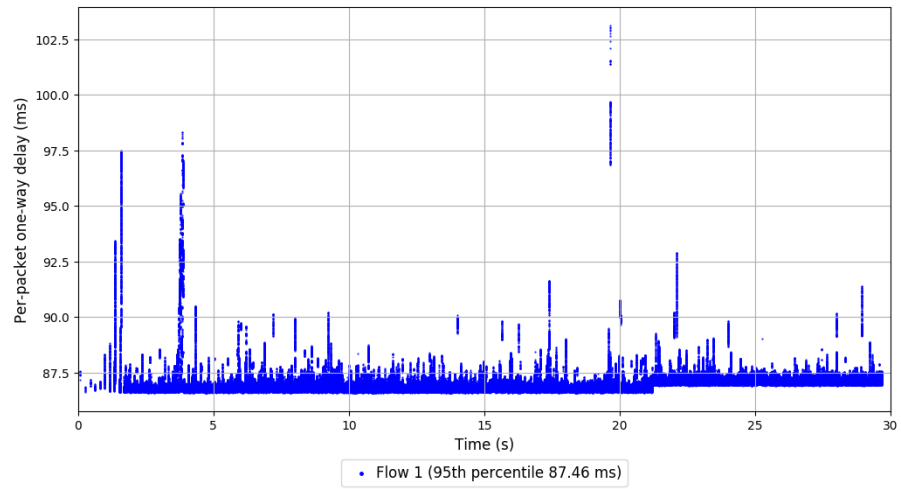
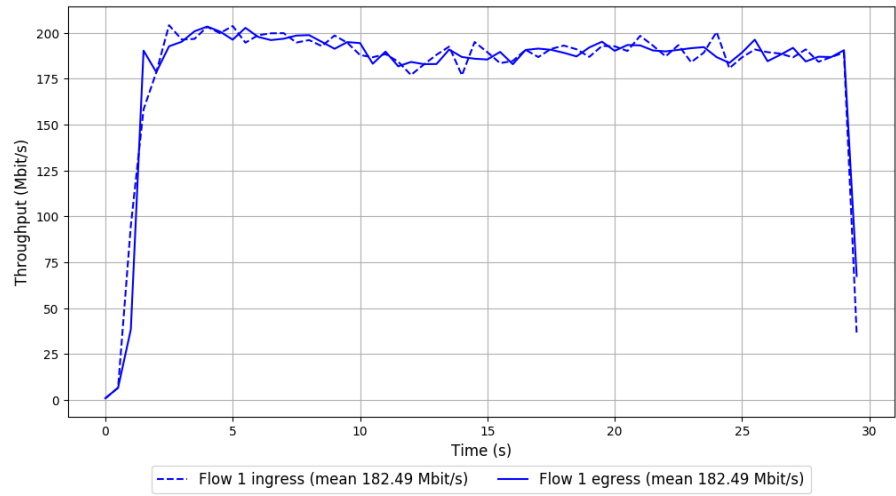
-- Flow 1:

Average throughput: 182.49 Mbit/s

95th percentile per-packet one-way delay: 87.456 ms

Loss rate: 0.00%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2018-01-16 11:51:54

End at: 2018-01-16 11:52:24

Below is generated by plot.py at 2018-01-16 14:21:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 175.17 Mbit/s

95th percentile per-packet one-way delay: 114.879 ms

Loss rate: 0.25%

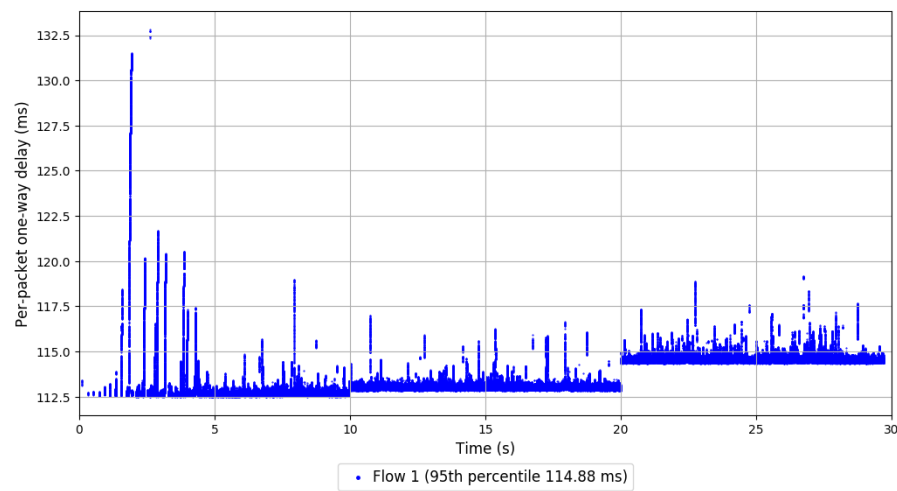
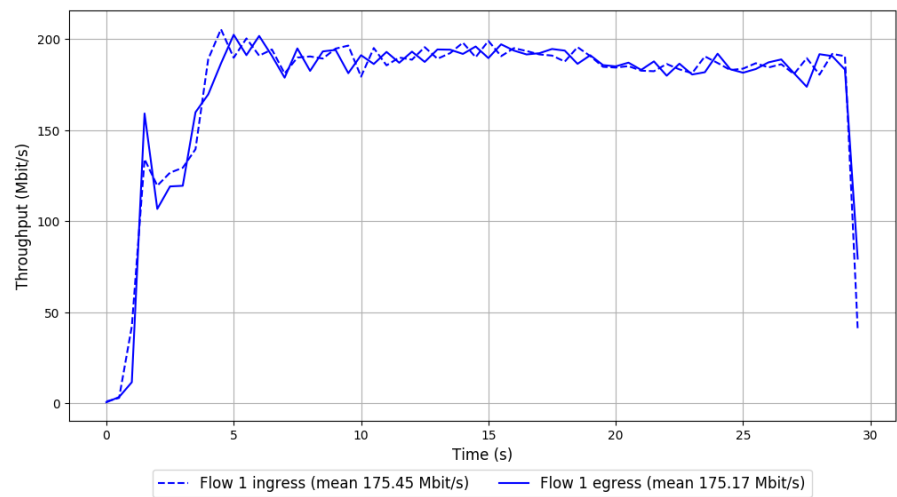
-- Flow 1:

Average throughput: 175.17 Mbit/s

95th percentile per-packet one-way delay: 114.879 ms

Loss rate: 0.25%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-01-16 12:05:38

End at: 2018-01-16 12:06:08

Below is generated by plot.py at 2018-01-16 14:21:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 177.01 Mbit/s

95th percentile per-packet one-way delay: 114.785 ms

Loss rate: 0.07%

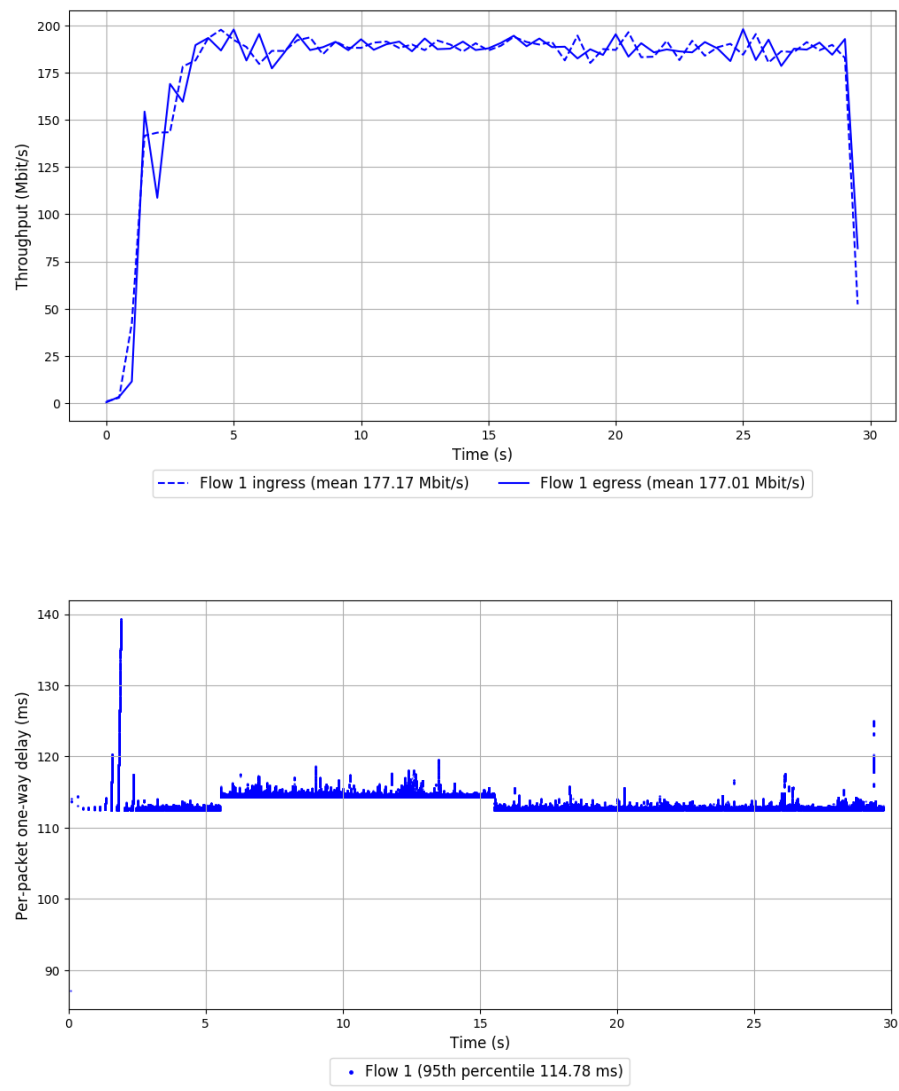
-- Flow 1:

Average throughput: 177.01 Mbit/s

95th percentile per-packet one-way delay: 114.785 ms

Loss rate: 0.07%

Run 10: Report of Indigo — Data Link



Run 1: Statistics of Vivace-latency

Start at: 2018-01-16 10:05:15

End at: 2018-01-16 10:05:45

Below is generated by plot.py at 2018-01-16 14:21:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.17 Mbit/s

95th percentile per-packet one-way delay: 114.869 ms

Loss rate: 0.10%

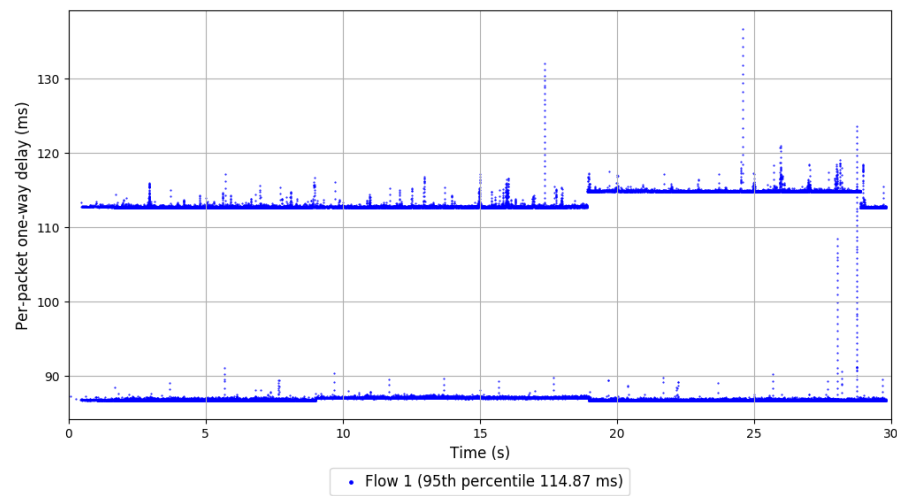
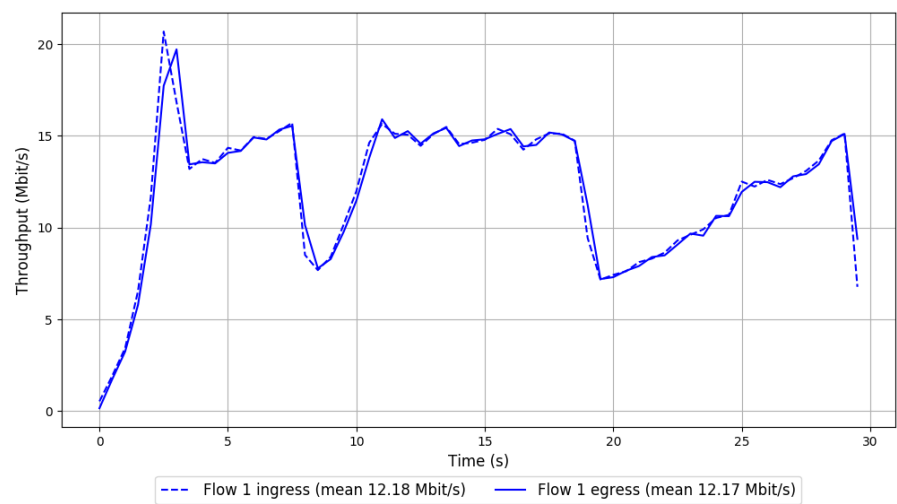
-- Flow 1:

Average throughput: 12.17 Mbit/s

95th percentile per-packet one-way delay: 114.869 ms

Loss rate: 0.10%

Run 1: Report of Vivace-latency — Data Link



Run 2: Statistics of Vivace-latency

Start at: 2018-01-16 10:19:19

End at: 2018-01-16 10:19:49

Below is generated by plot.py at 2018-01-16 14:21:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.91 Mbit/s

95th percentile per-packet one-way delay: 115.102 ms

Loss rate: 0.00%

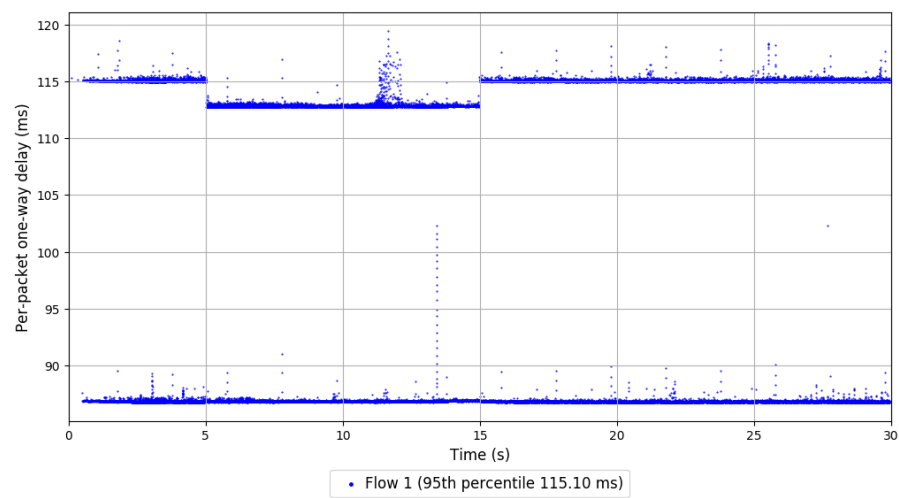
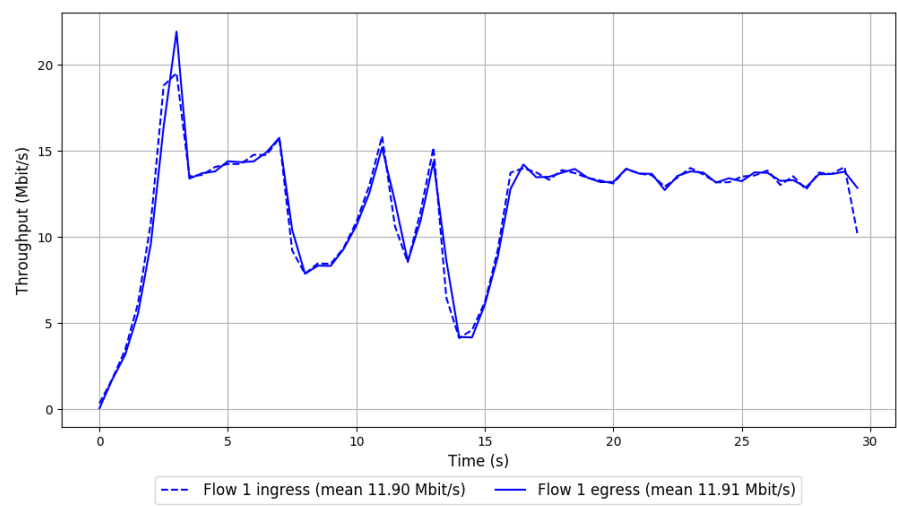
-- Flow 1:

Average throughput: 11.91 Mbit/s

95th percentile per-packet one-way delay: 115.102 ms

Loss rate: 0.00%

Run 2: Report of Vivace-latency — Data Link



Run 3: Statistics of Vivace-latency

Start at: 2018-01-16 10:33:06

End at: 2018-01-16 10:33:36

Below is generated by plot.py at 2018-01-16 14:21:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 28.20 Mbit/s

95th percentile per-packet one-way delay: 115.208 ms

Loss rate: 0.01%

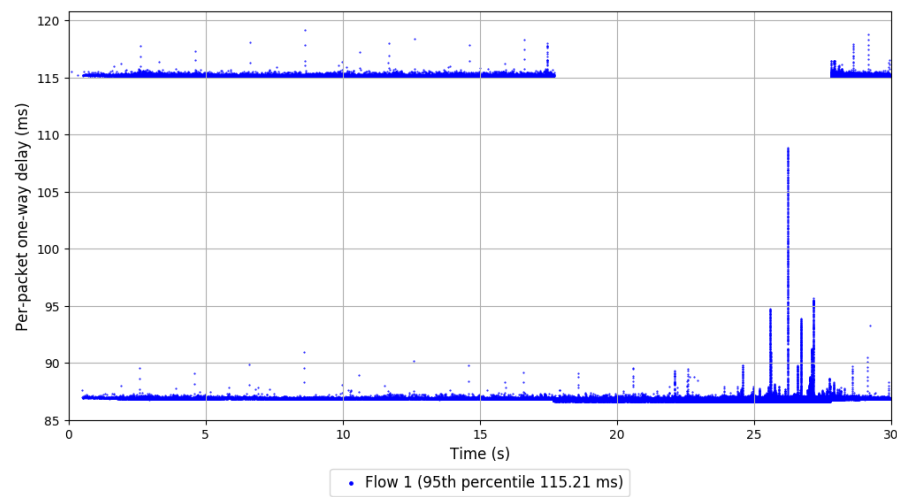
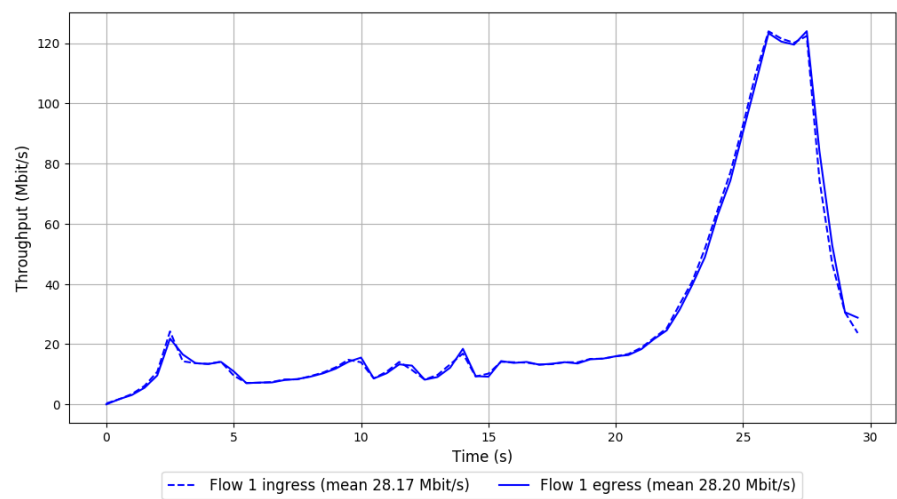
-- Flow 1:

Average throughput: 28.20 Mbit/s

95th percentile per-packet one-way delay: 115.208 ms

Loss rate: 0.01%

Run 3: Report of Vivace-latency — Data Link



Run 4: Statistics of Vivace-latency

Start at: 2018-01-16 10:47:17

End at: 2018-01-16 10:47:47

Below is generated by plot.py at 2018-01-16 14:21:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 239.79 Mbit/s

95th percentile per-packet one-way delay: 93.285 ms

Loss rate: 0.00%

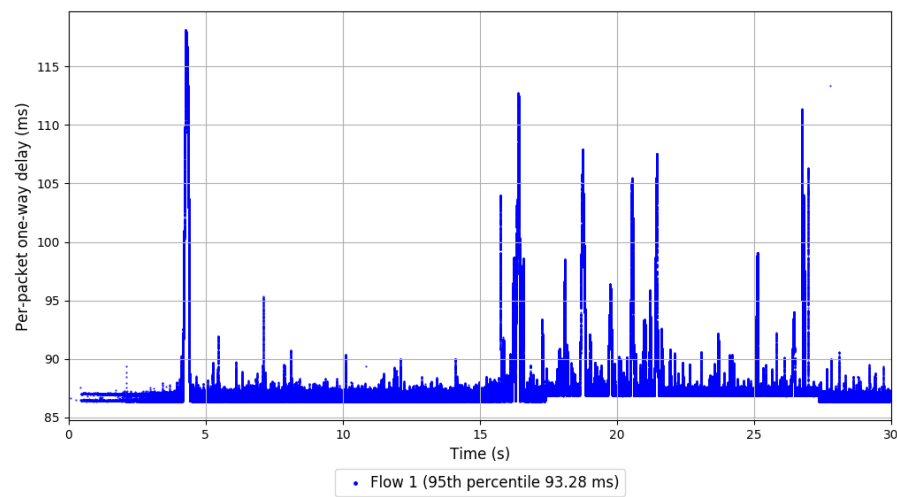
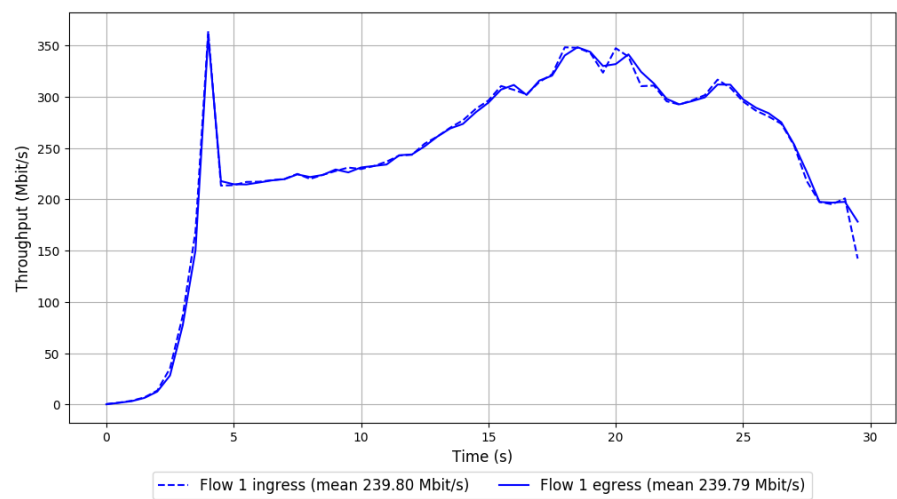
-- Flow 1:

Average throughput: 239.79 Mbit/s

95th percentile per-packet one-way delay: 93.285 ms

Loss rate: 0.00%

Run 4: Report of Vivace-latency — Data Link



Run 5: Statistics of Vivace-latency

Start at: 2018-01-16 11:01:27

End at: 2018-01-16 11:01:57

Below is generated by plot.py at 2018-01-16 14:21:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 38.47 Mbit/s

95th percentile per-packet one-way delay: 112.979 ms

Loss rate: 0.00%

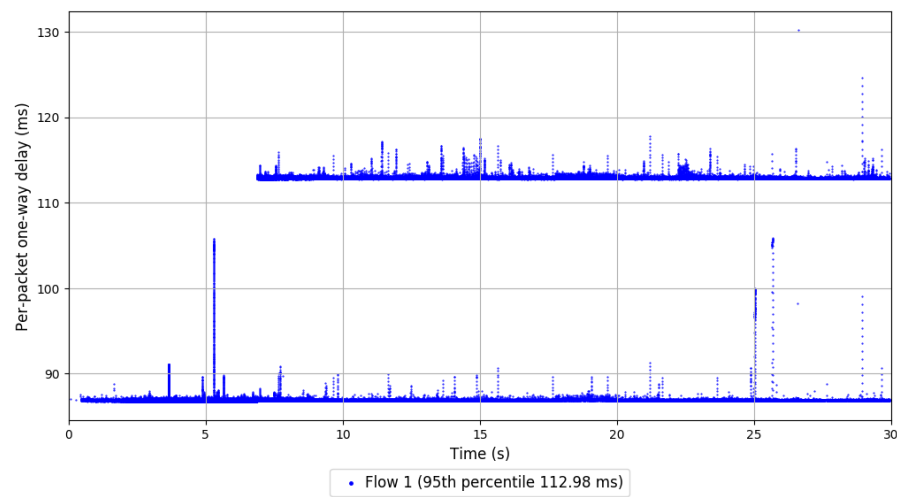
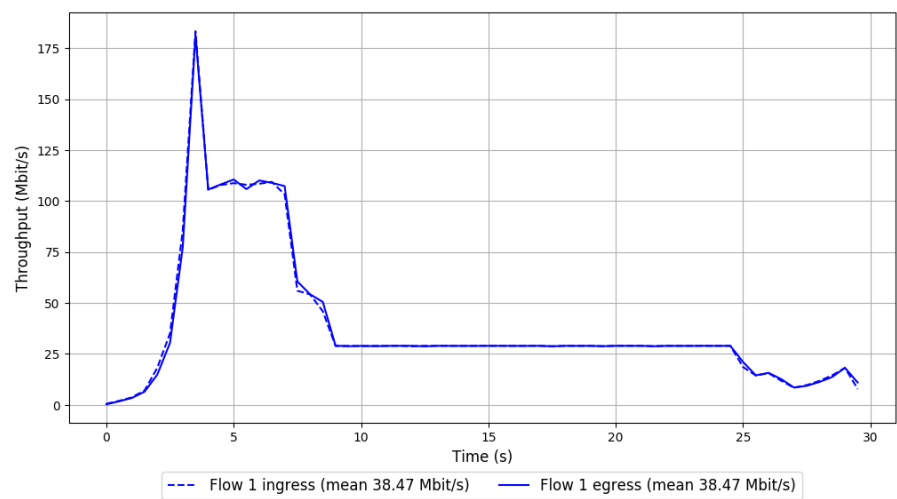
-- Flow 1:

Average throughput: 38.47 Mbit/s

95th percentile per-packet one-way delay: 112.979 ms

Loss rate: 0.00%

Run 5: Report of Vivace-latency — Data Link



Run 6: Statistics of Vivace-latency

Start at: 2018-01-16 11:15:23

End at: 2018-01-16 11:15:53

Below is generated by plot.py at 2018-01-16 14:21:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.27 Mbit/s

95th percentile per-packet one-way delay: 115.218 ms

Loss rate: 0.01%

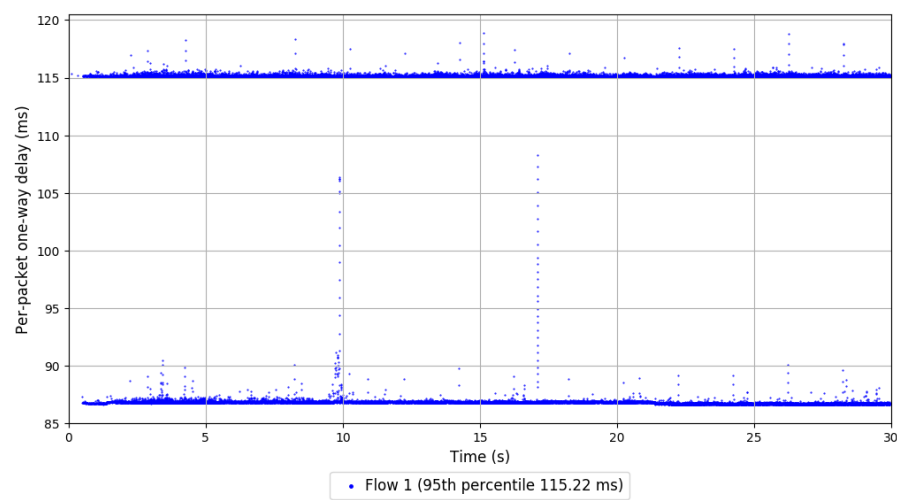
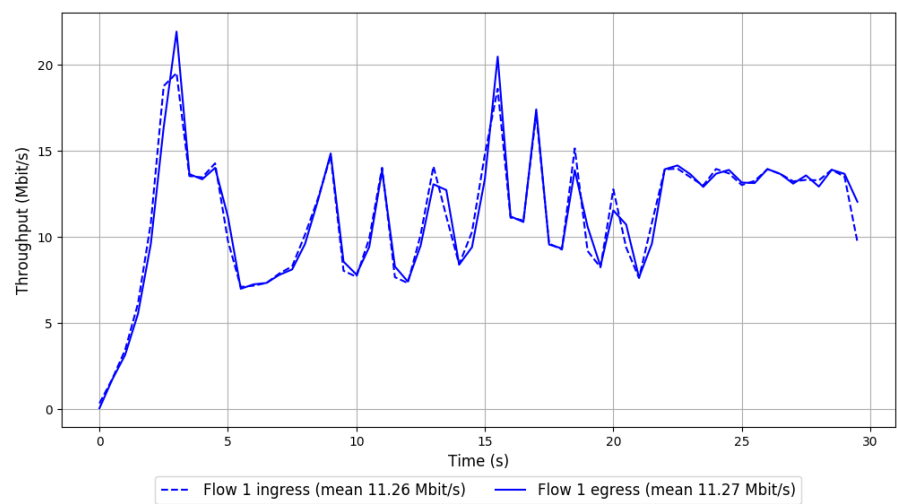
-- Flow 1:

Average throughput: 11.27 Mbit/s

95th percentile per-packet one-way delay: 115.218 ms

Loss rate: 0.01%

Run 6: Report of Vivace-latency — Data Link



Run 7: Statistics of Vivace-latency

Start at: 2018-01-16 11:28:59

End at: 2018-01-16 11:29:29

Below is generated by plot.py at 2018-01-16 14:21:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 168.23 Mbit/s

95th percentile per-packet one-way delay: 90.421 ms

Loss rate: 0.03%

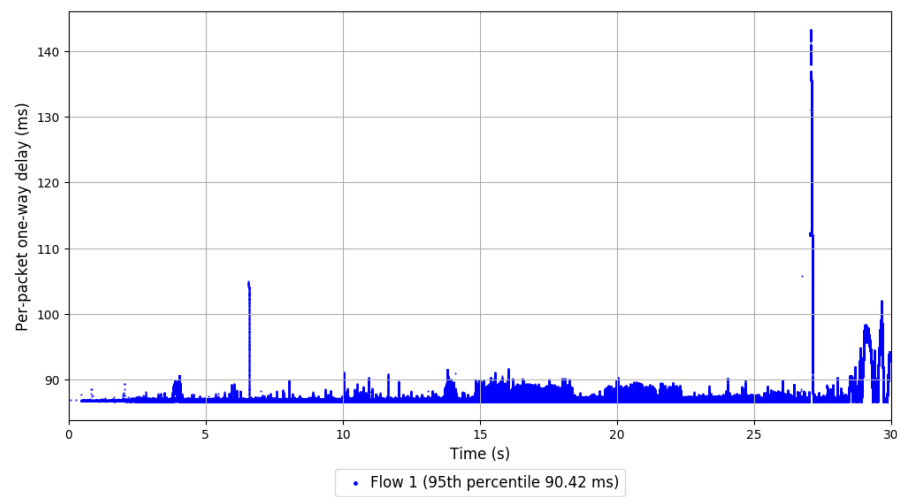
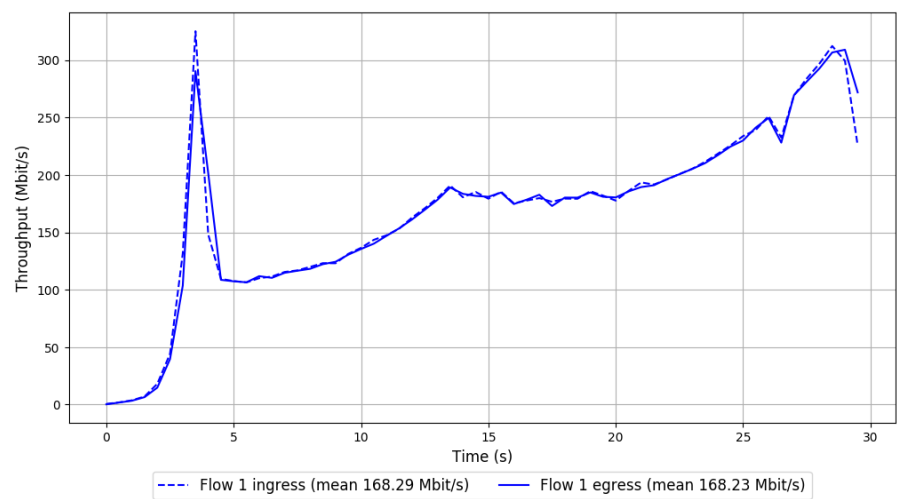
-- Flow 1:

Average throughput: 168.23 Mbit/s

95th percentile per-packet one-way delay: 90.421 ms

Loss rate: 0.03%

Run 7: Report of Vivace-latency — Data Link



Run 8: Statistics of Vivace-latency

Start at: 2018-01-16 11:43:35

End at: 2018-01-16 11:44:05

Below is generated by plot.py at 2018-01-16 14:21:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.50 Mbit/s

95th percentile per-packet one-way delay: 113.419 ms

Loss rate: 0.01%

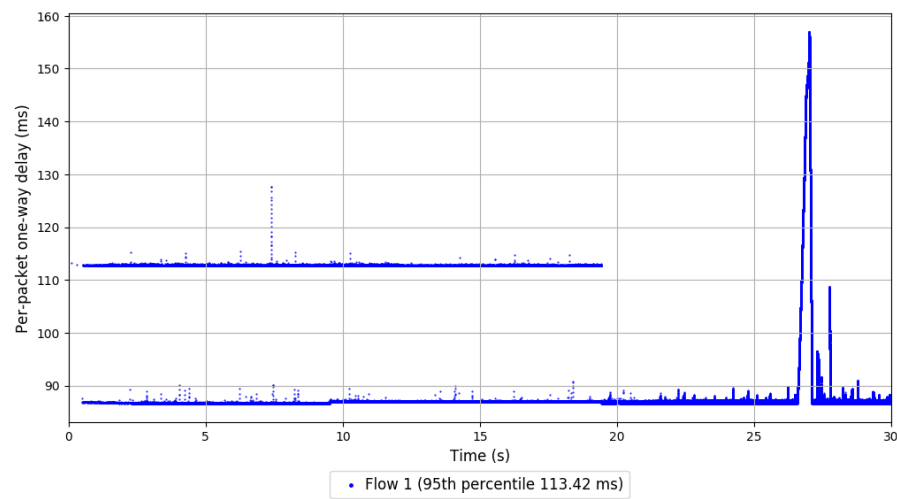
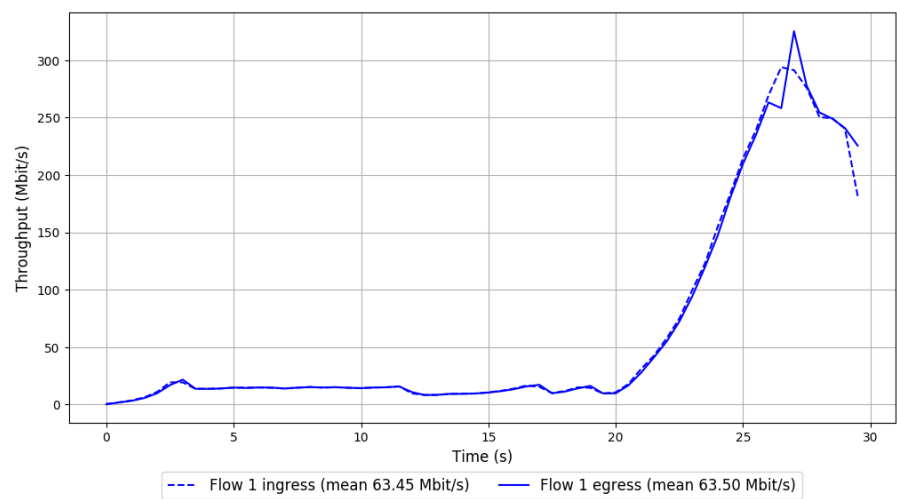
-- Flow 1:

Average throughput: 63.50 Mbit/s

95th percentile per-packet one-way delay: 113.419 ms

Loss rate: 0.01%

Run 8: Report of Vivace-latency — Data Link



Run 9: Statistics of Vivace-latency

Start at: 2018-01-16 11:57:47

End at: 2018-01-16 11:58:17

Below is generated by plot.py at 2018-01-16 14:21:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.35 Mbit/s

95th percentile per-packet one-way delay: 114.481 ms

Loss rate: 0.06%

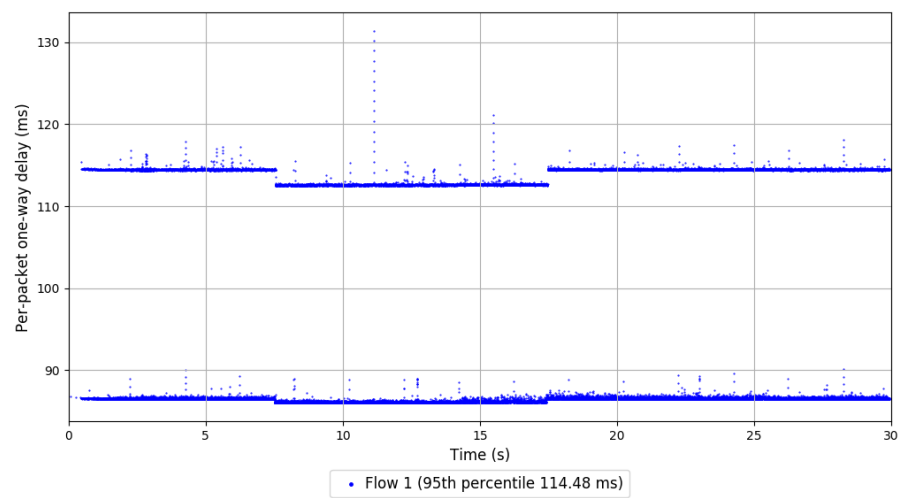
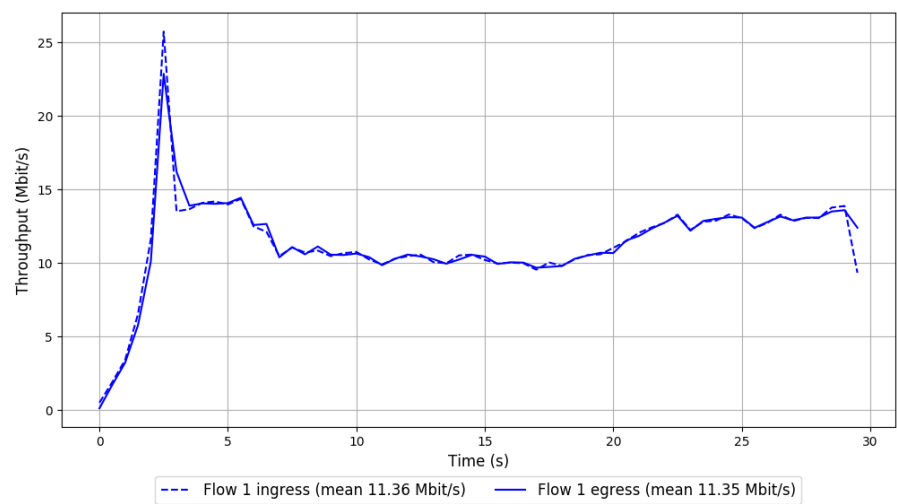
-- Flow 1:

Average throughput: 11.35 Mbit/s

95th percentile per-packet one-way delay: 114.481 ms

Loss rate: 0.06%

Run 9: Report of Vivace-latency — Data Link



Run 10: Statistics of Vivace-latency

Start at: 2018-01-16 12:11:33

End at: 2018-01-16 12:12:03

Below is generated by plot.py at 2018-01-16 14:21:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.36 Mbit/s

95th percentile per-packet one-way delay: 114.442 ms

Loss rate: 0.06%

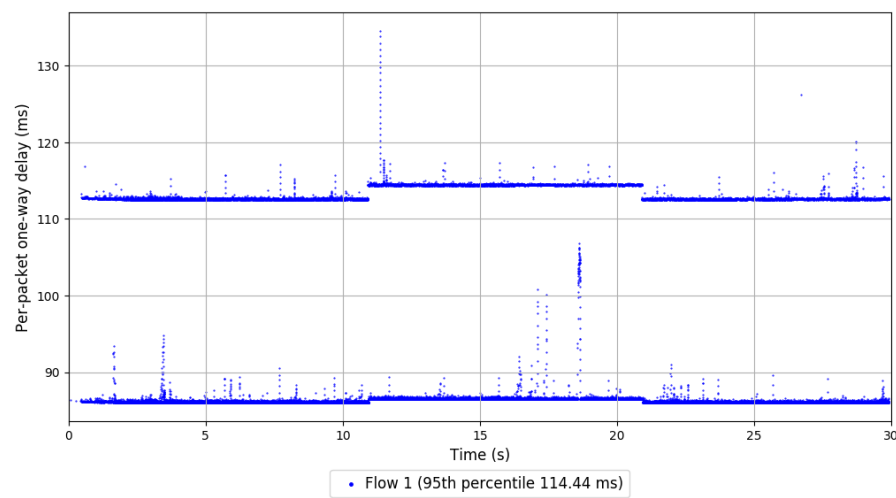
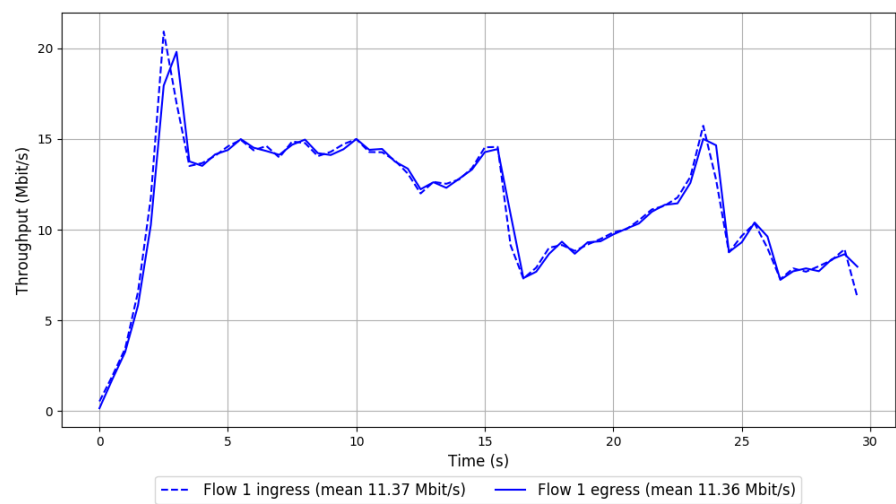
-- Flow 1:

Average throughput: 11.36 Mbit/s

95th percentile per-packet one-way delay: 114.442 ms

Loss rate: 0.06%

Run 10: Report of Vivace-latency — Data Link

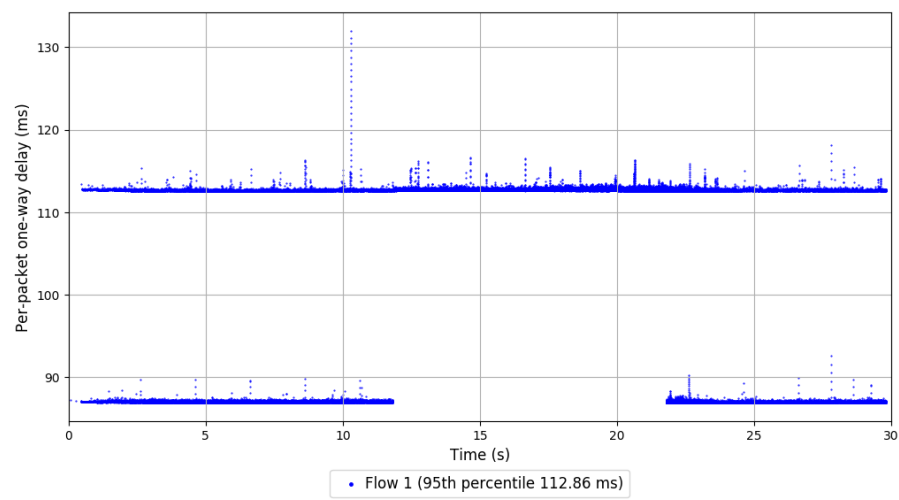
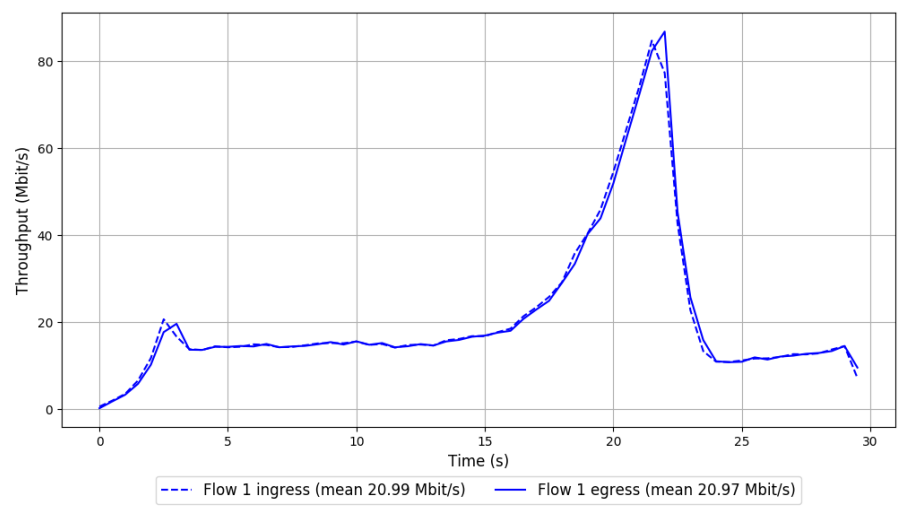


```
Run 1: Statistics of Vivace-loss

Start at: 2018-01-16 10:02:22
End at: 2018-01-16 10:02:52

# Below is generated by plot.py at 2018-01-16 14:21:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 20.97 Mbit/s
95th percentile per-packet one-way delay: 112.863 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 20.97 Mbit/s
95th percentile per-packet one-way delay: 112.863 ms
Loss rate: 0.06%
```

Run 1: Report of Vivace-loss — Data Link

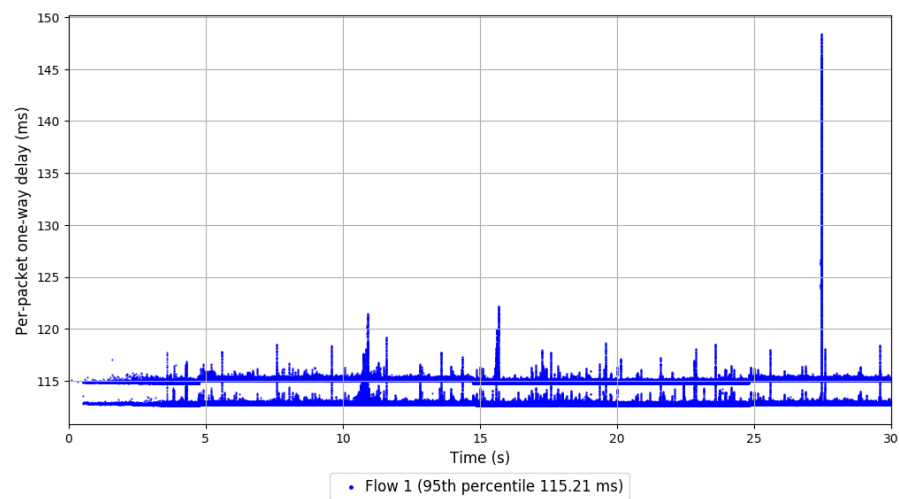
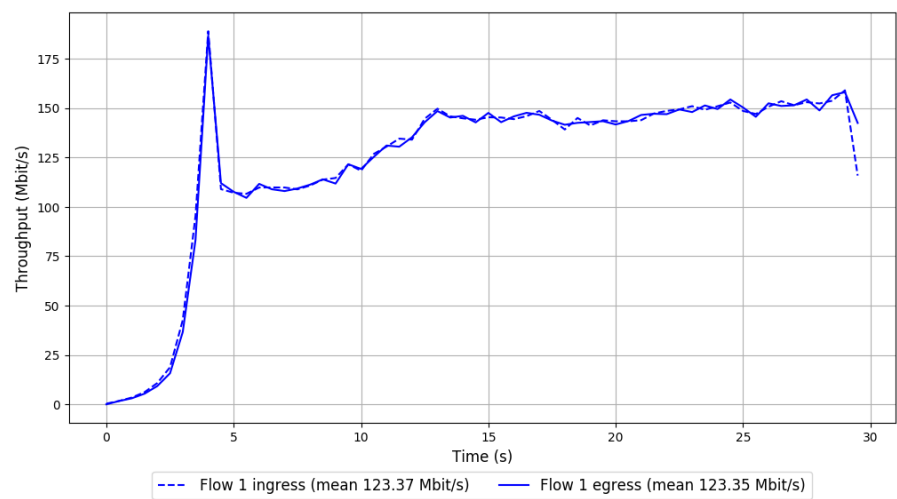


```
Run 2: Statistics of Vivace-loss

Start at: 2018-01-16 10:15:59
End at: 2018-01-16 10:16:29

# Below is generated by plot.py at 2018-01-16 14:21:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 123.35 Mbit/s
95th percentile per-packet one-way delay: 115.207 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 123.35 Mbit/s
95th percentile per-packet one-way delay: 115.207 ms
Loss rate: 0.11%
```

Run 2: Report of Vivace-loss — Data Link



Run 3: Statistics of Vivace-loss

Start at: 2018-01-16 10:30:01

End at: 2018-01-16 10:30:31

Below is generated by plot.py at 2018-01-16 14:21:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 10.36 Mbit/s

95th percentile per-packet one-way delay: 115.211 ms

Loss rate: 0.00%

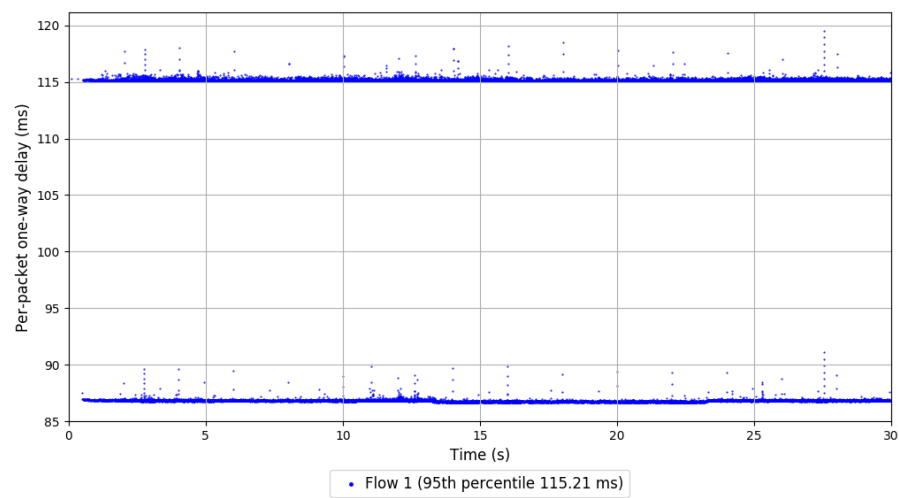
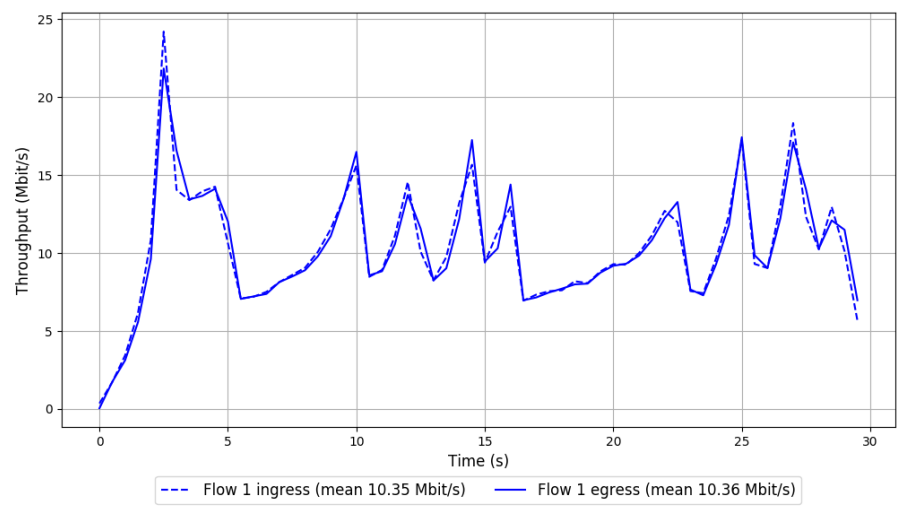
-- Flow 1:

Average throughput: 10.36 Mbit/s

95th percentile per-packet one-way delay: 115.211 ms

Loss rate: 0.00%

Run 3: Report of Vivace-loss — Data Link



Run 4: Statistics of Vivace-loss

Start at: 2018-01-16 10:44:08

End at: 2018-01-16 10:44:38

Below is generated by plot.py at 2018-01-16 14:21:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 10.52 Mbit/s

95th percentile per-packet one-way delay: 115.310 ms

Loss rate: 0.00%

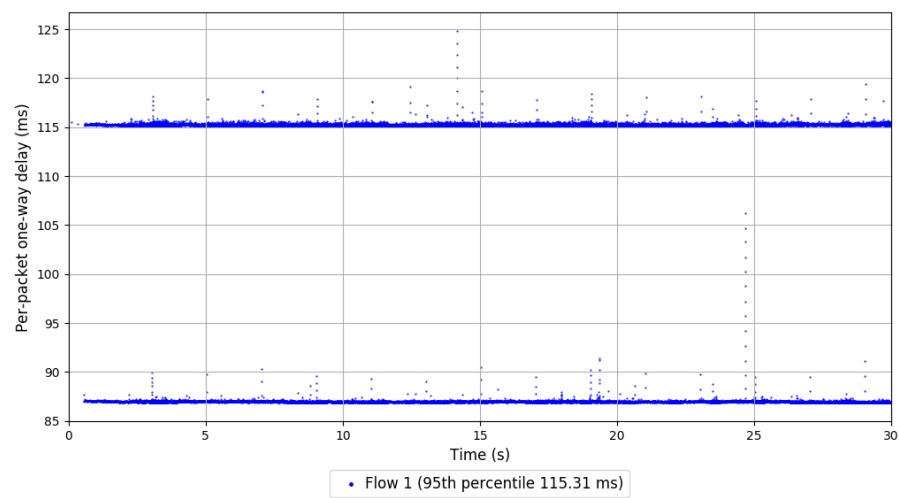
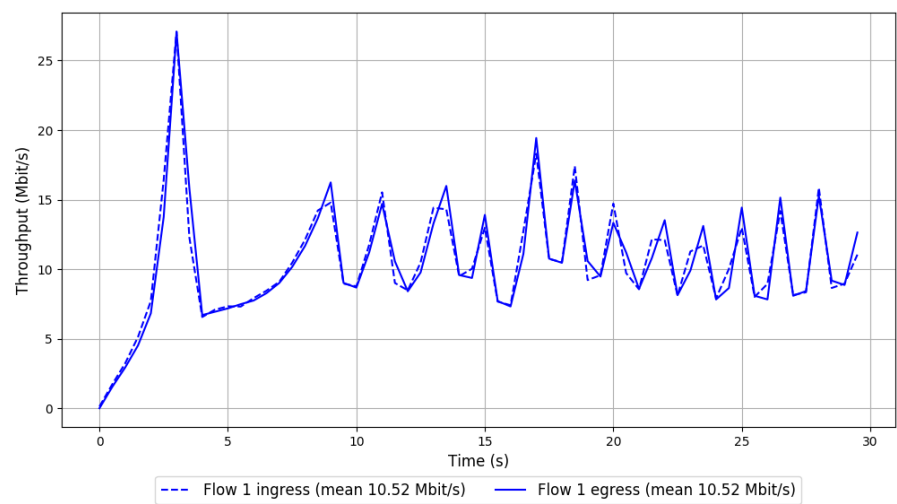
-- Flow 1:

Average throughput: 10.52 Mbit/s

95th percentile per-packet one-way delay: 115.310 ms

Loss rate: 0.00%

Run 4: Report of Vivace-loss — Data Link



Run 5: Statistics of Vivace-loss

Start at: 2018-01-16 10:58:17

End at: 2018-01-16 10:58:47

Below is generated by plot.py at 2018-01-16 14:21:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 169.23 Mbit/s

95th percentile per-packet one-way delay: 87.989 ms

Loss rate: 0.00%

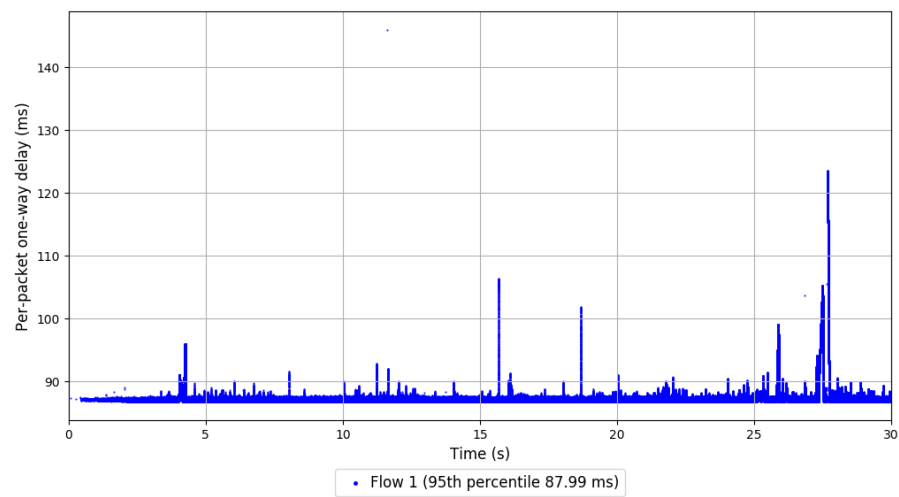
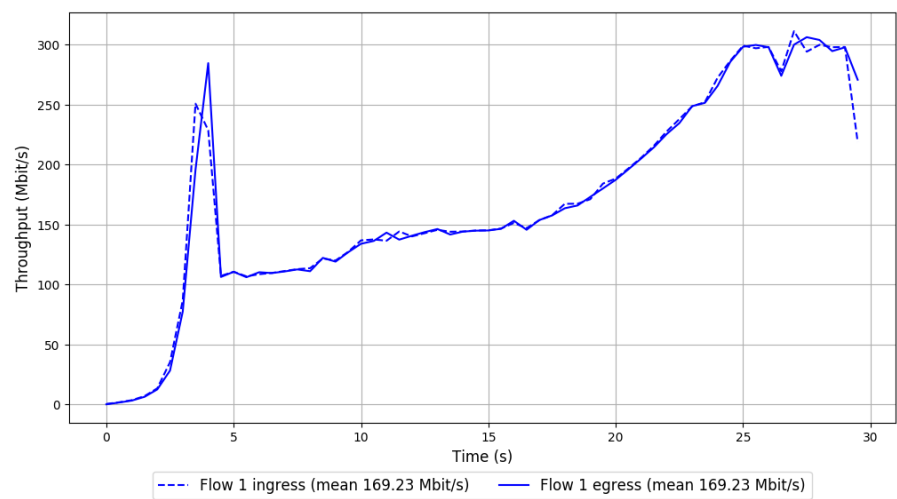
-- Flow 1:

Average throughput: 169.23 Mbit/s

95th percentile per-packet one-way delay: 87.989 ms

Loss rate: 0.00%

Run 5: Report of Vivace-loss — Data Link



Run 6: Statistics of Vivace-loss

Start at: 2018-01-16 11:12:12

End at: 2018-01-16 11:12:42

Below is generated by plot.py at 2018-01-16 14:21:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.91 Mbit/s

95th percentile per-packet one-way delay: 115.127 ms

Loss rate: 0.00%

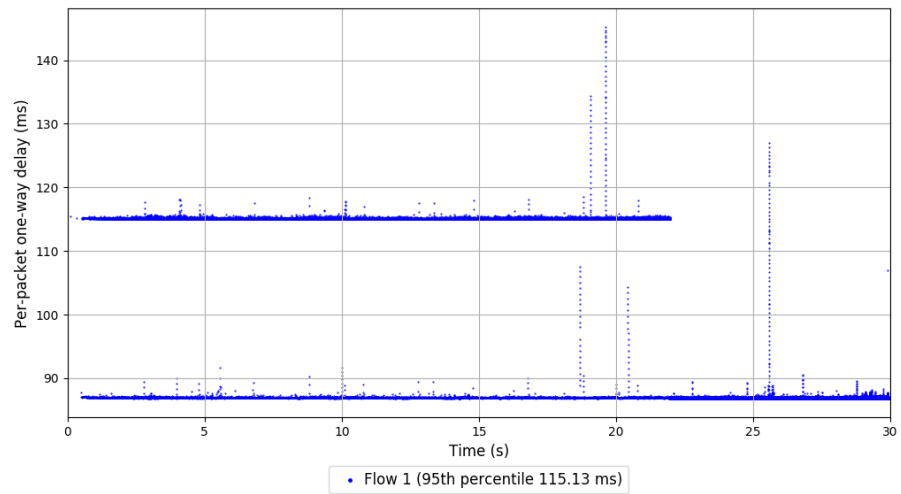
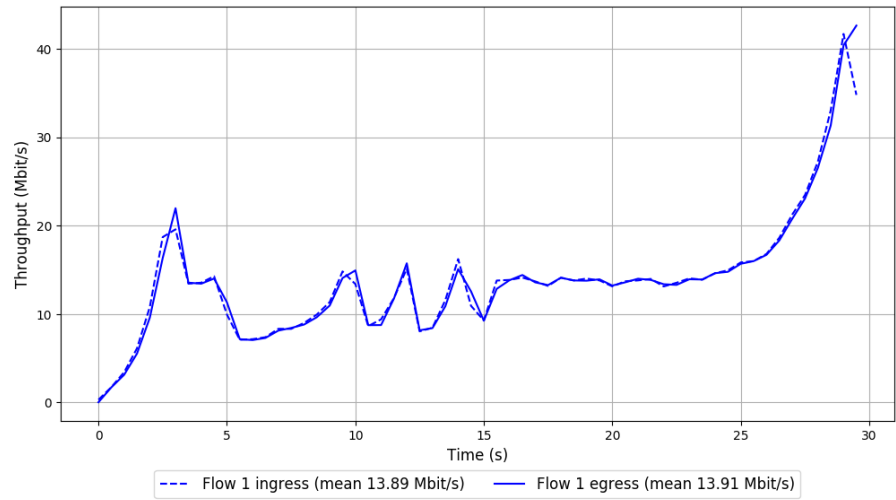
-- Flow 1:

Average throughput: 13.91 Mbit/s

95th percentile per-packet one-way delay: 115.127 ms

Loss rate: 0.00%

Run 6: Report of Vivace-loss — Data Link



Run 7: Statistics of Vivace-loss

Start at: 2018-01-16 11:26:01

End at: 2018-01-16 11:26:31

Below is generated by plot.py at 2018-01-16 14:21:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.76 Mbit/s

95th percentile per-packet one-way delay: 112.953 ms

Loss rate: 0.01%

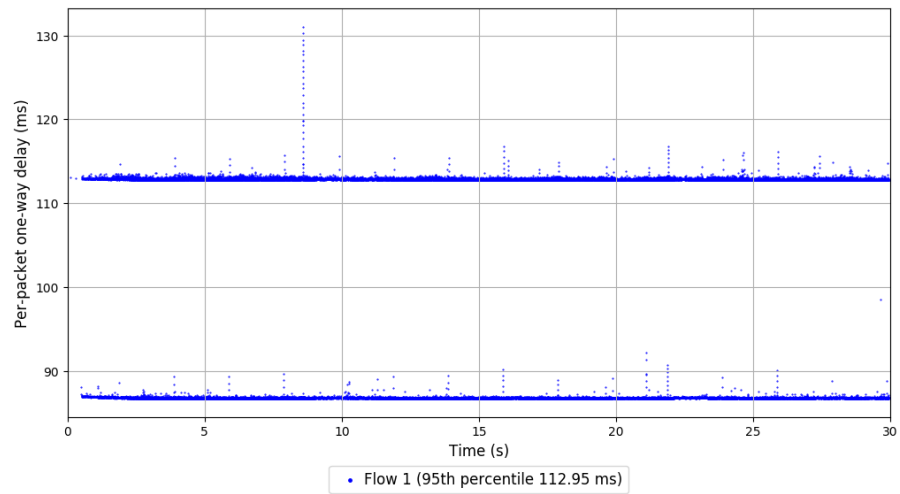
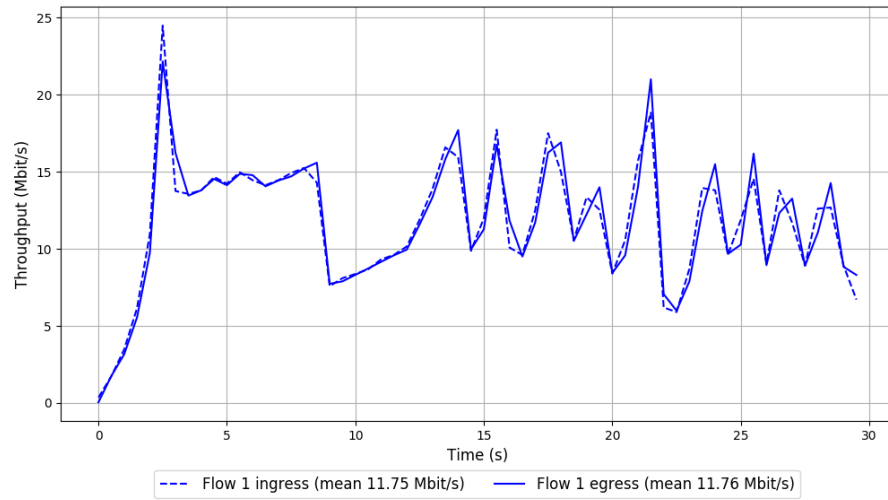
-- Flow 1:

Average throughput: 11.76 Mbit/s

95th percentile per-packet one-way delay: 112.953 ms

Loss rate: 0.01%

Run 7: Report of Vivace-loss — Data Link



Run 8: Statistics of Vivace-loss

Start at: 2018-01-16 11:40:05

End at: 2018-01-16 11:40:35

Below is generated by plot.py at 2018-01-16 14:21:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 228.23 Mbit/s

95th percentile per-packet one-way delay: 90.685 ms

Loss rate: 0.00%

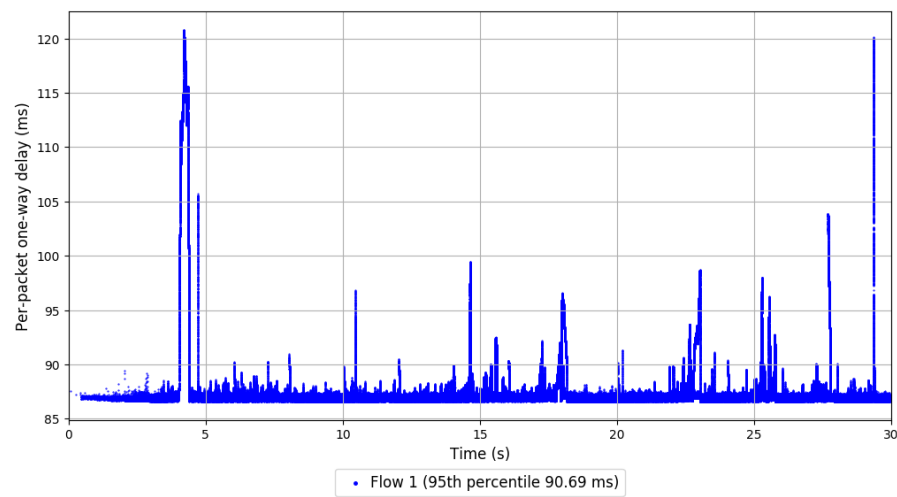
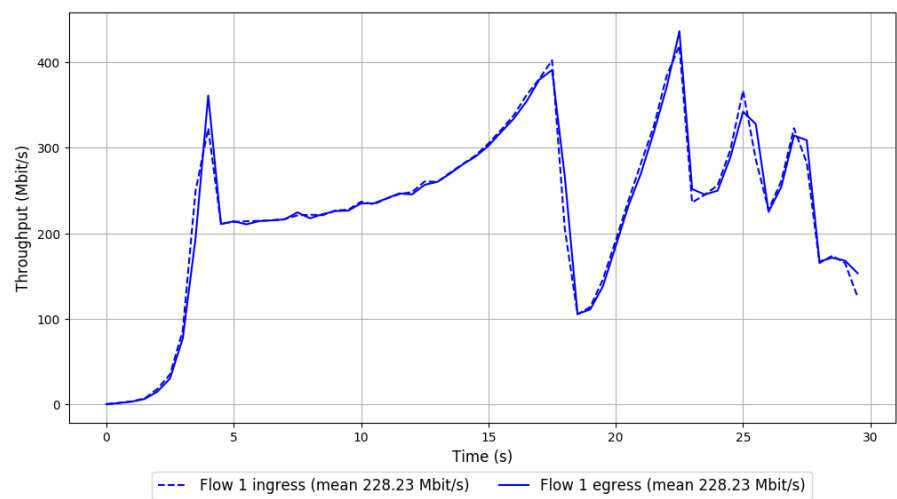
-- Flow 1:

Average throughput: 228.23 Mbit/s

95th percentile per-packet one-way delay: 90.685 ms

Loss rate: 0.00%

Run 8: Report of Vivace-loss — Data Link



Run 9: Statistics of Vivace-loss

Start at: 2018-01-16 11:54:40

End at: 2018-01-16 11:55:10

Below is generated by plot.py at 2018-01-16 14:21:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.45 Mbit/s

95th percentile per-packet one-way delay: 112.696 ms

Loss rate: 0.08%

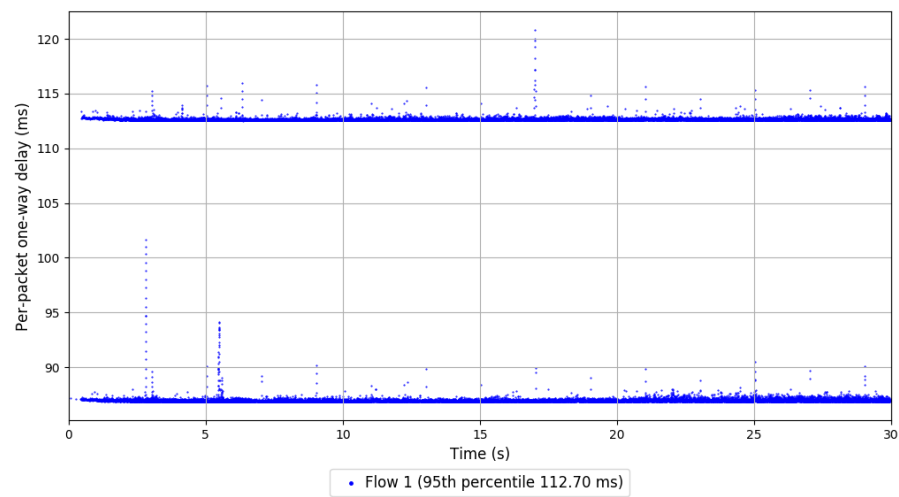
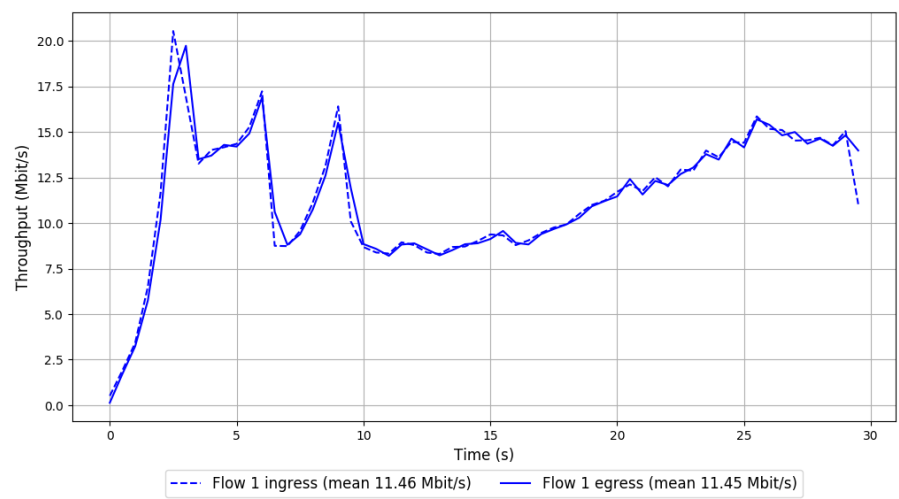
-- Flow 1:

Average throughput: 11.45 Mbit/s

95th percentile per-packet one-way delay: 112.696 ms

Loss rate: 0.08%

Run 9: Report of Vivace-loss — Data Link



Run 10: Statistics of Vivace-loss

Start at: 2018-01-16 12:08:28

End at: 2018-01-16 12:08:58

Below is generated by plot.py at 2018-01-16 14:21:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 9.79 Mbit/s

95th percentile per-packet one-way delay: 114.444 ms

Loss rate: 0.09%

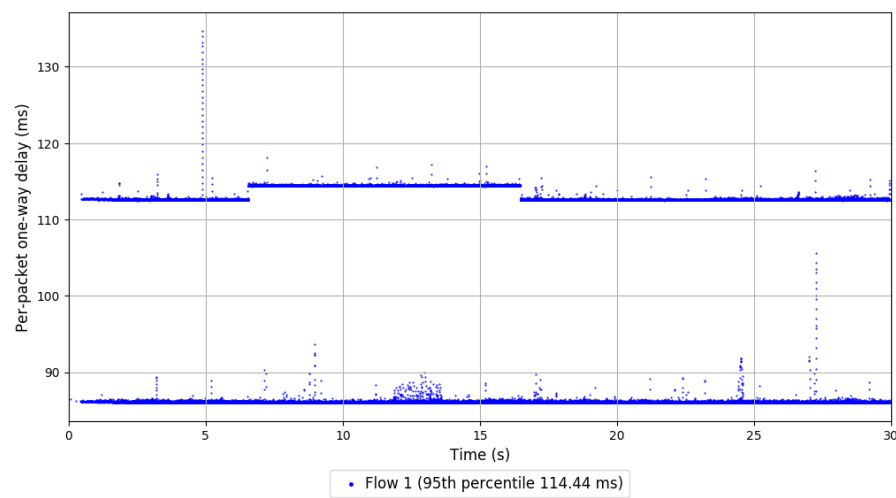
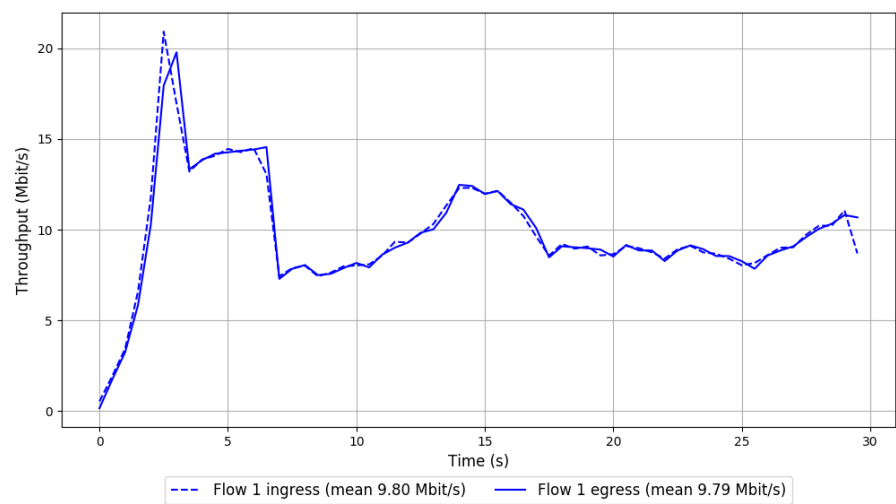
-- Flow 1:

Average throughput: 9.79 Mbit/s

95th percentile per-packet one-way delay: 114.444 ms

Loss rate: 0.09%

Run 10: Report of Vivace-loss — Data Link

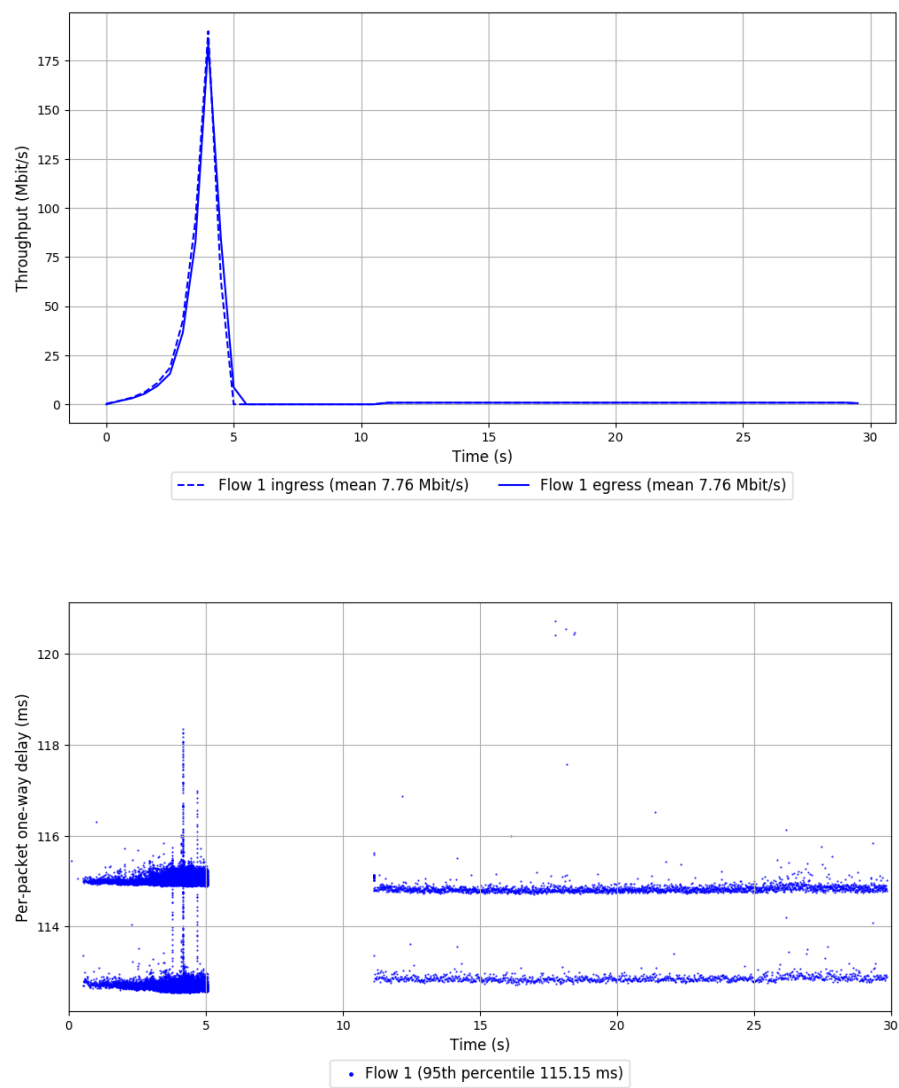


```
Run 1: Statistics of Vivace-LTE

Start at: 2018-01-16 10:04:35
End at: 2018-01-16 10:05:05

# Below is generated by plot.py at 2018-01-16 14:21:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.76 Mbit/s
95th percentile per-packet one-way delay: 115.149 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 7.76 Mbit/s
95th percentile per-packet one-way delay: 115.149 ms
Loss rate: 0.01%
```


Run 1: Report of Vivace-LTE — Data Link



Run 2: Statistics of Vivace-LTE

Start at: 2018-01-16 10:18:39

End at: 2018-01-16 10:19:09

Below is generated by plot.py at 2018-01-16 14:21:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.22 Mbit/s

95th percentile per-packet one-way delay: 115.235 ms

Loss rate: 0.00%

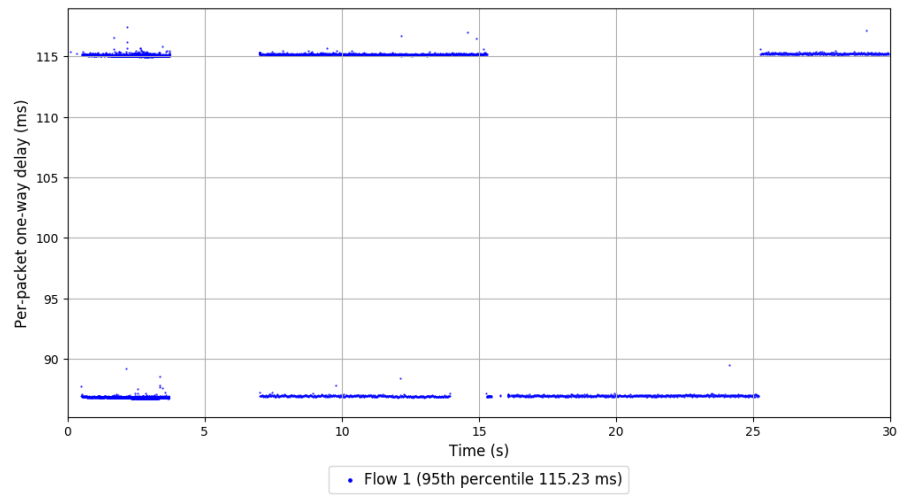
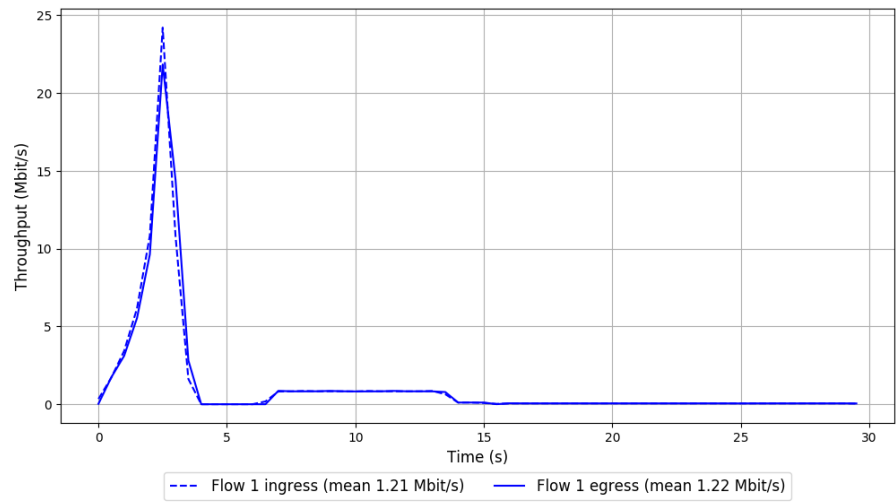
-- Flow 1:

Average throughput: 1.22 Mbit/s

95th percentile per-packet one-way delay: 115.235 ms

Loss rate: 0.00%

Run 2: Report of Vivace-LTE — Data Link



Run 3: Statistics of Vivace-LTE

Start at: 2018-01-16 10:32:27

End at: 2018-01-16 10:32:57

Below is generated by plot.py at 2018-01-16 14:21:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.32 Mbit/s

95th percentile per-packet one-way delay: 115.335 ms

Loss rate: 0.01%

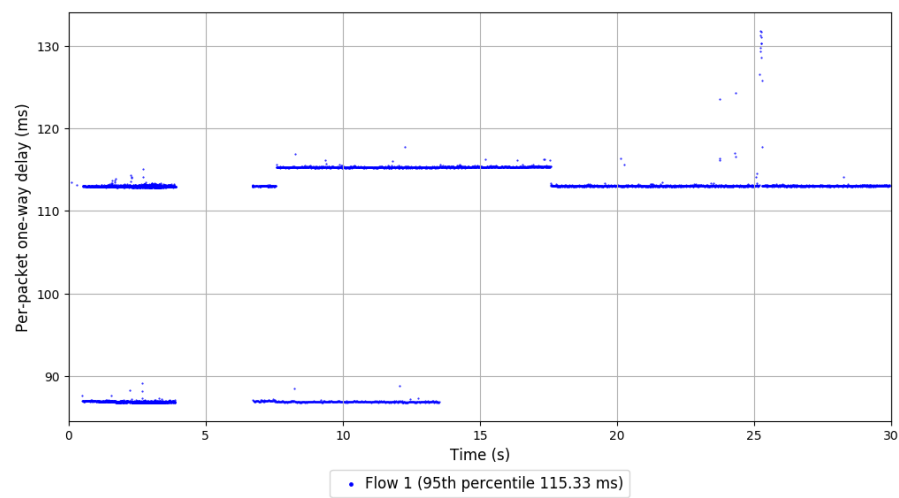
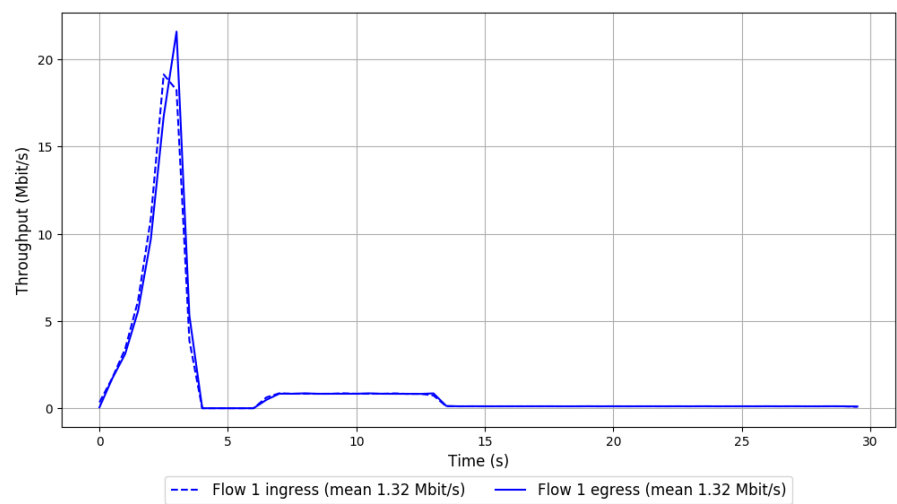
-- Flow 1:

Average throughput: 1.32 Mbit/s

95th percentile per-packet one-way delay: 115.335 ms

Loss rate: 0.01%

Run 3: Report of Vivace-LTE — Data Link



Run 4: Statistics of Vivace-LTE

Start at: 2018-01-16 10:46:35

End at: 2018-01-16 10:47:05

Below is generated by plot.py at 2018-01-16 14:21:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 16.01 Mbit/s

95th percentile per-packet one-way delay: 171.556 ms

Loss rate: 0.00%

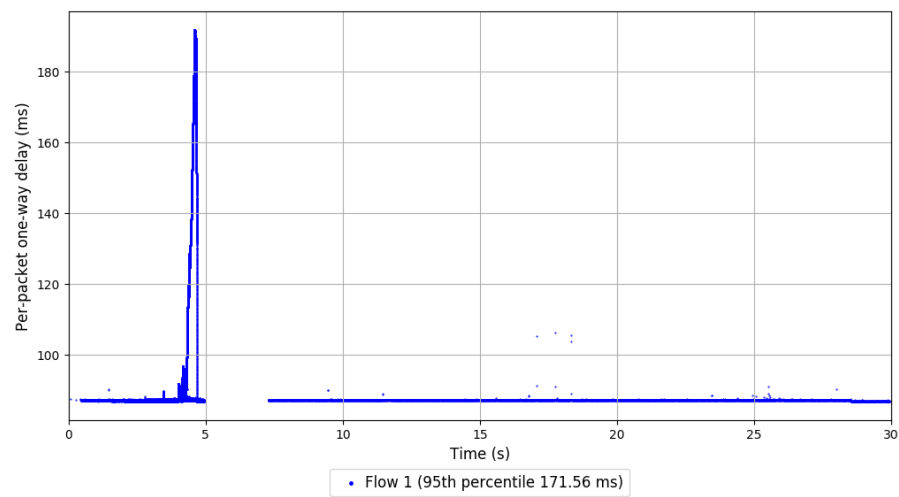
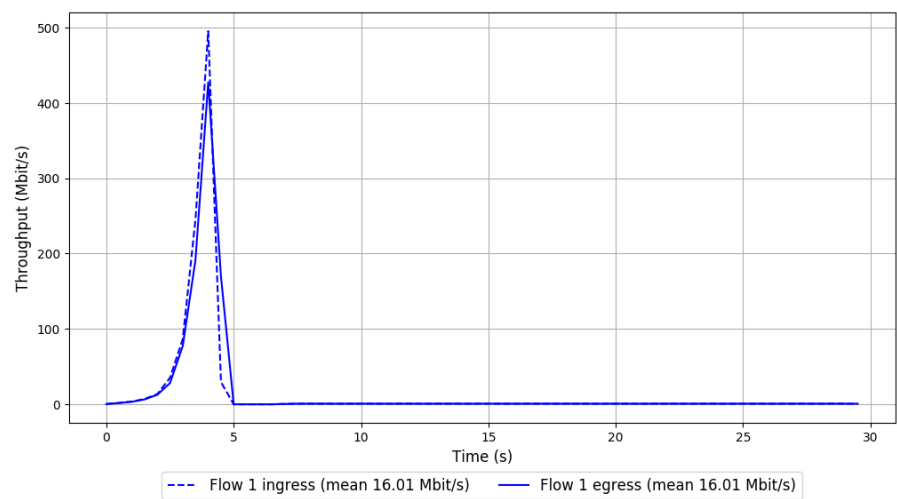
-- Flow 1:

Average throughput: 16.01 Mbit/s

95th percentile per-packet one-way delay: 171.556 ms

Loss rate: 0.00%

Run 4: Report of Vivace-LTE — Data Link



Run 5: Statistics of Vivace-LTE

Start at: 2018-01-16 11:00:46

End at: 2018-01-16 11:01:16

Below is generated by plot.py at 2018-01-16 14:21:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 14.97 Mbit/s

95th percentile per-packet one-way delay: 170.888 ms

Loss rate: 0.00%

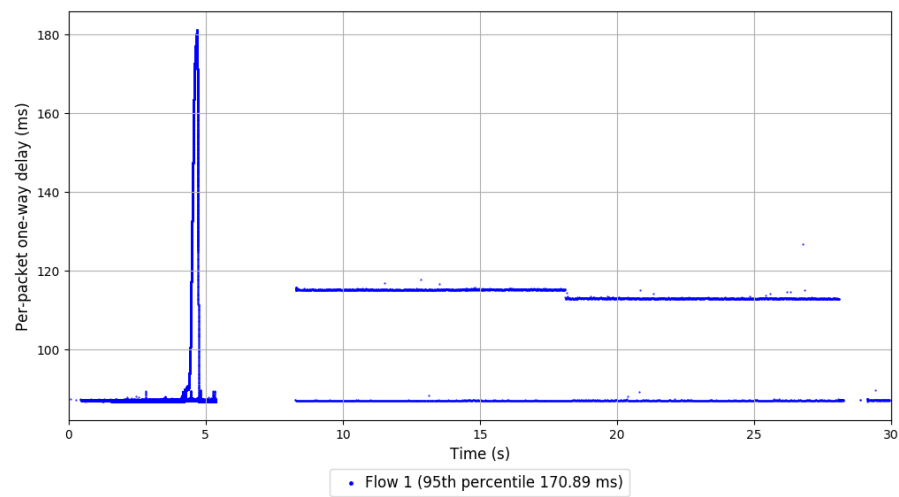
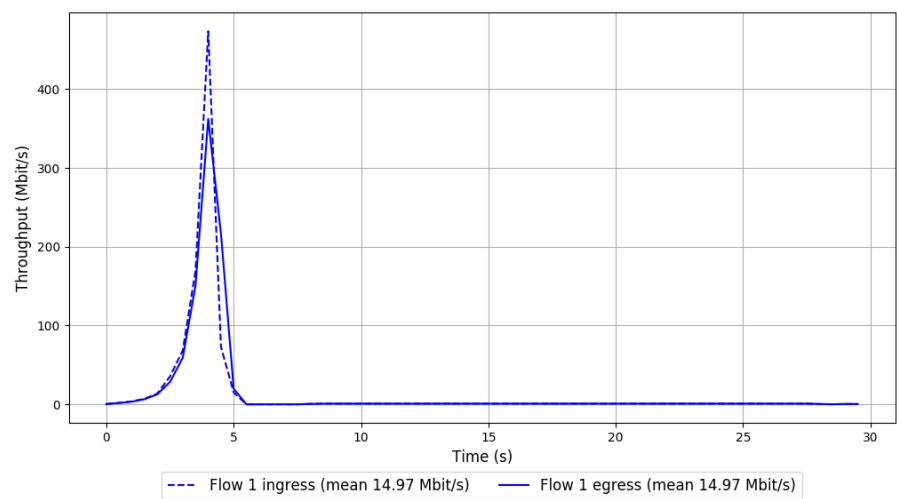
-- Flow 1:

Average throughput: 14.97 Mbit/s

95th percentile per-packet one-way delay: 170.888 ms

Loss rate: 0.00%

Run 5: Report of Vivace-LTE — Data Link



Run 6: Statistics of Vivace-LTE

Start at: 2018-01-16 11:14:41

End at: 2018-01-16 11:15:11

Below is generated by plot.py at 2018-01-16 14:21:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 15.93 Mbit/s

95th percentile per-packet one-way delay: 192.402 ms

Loss rate: 0.00%

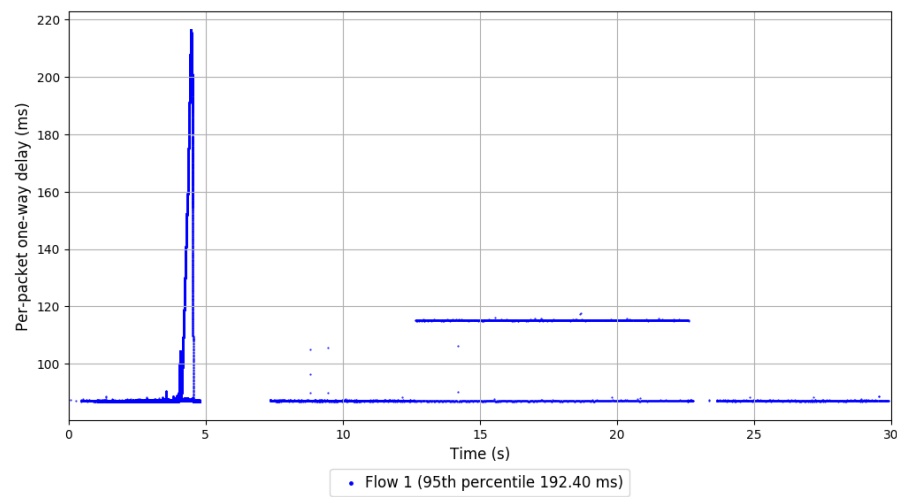
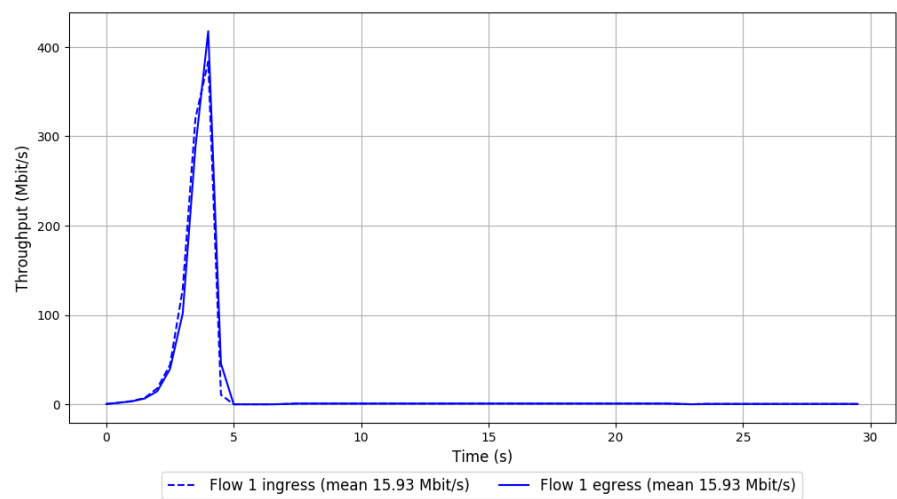
-- Flow 1:

Average throughput: 15.93 Mbit/s

95th percentile per-packet one-way delay: 192.402 ms

Loss rate: 0.00%

Run 6: Report of Vivace-LTE — Data Link



Run 7: Statistics of Vivace-LTE

Start at: 2018-01-16 11:28:13

End at: 2018-01-16 11:28:43

Below is generated by plot.py at 2018-01-16 14:21:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 56.74 Mbit/s

95th percentile per-packet one-way delay: 260.112 ms

Loss rate: 1.72%

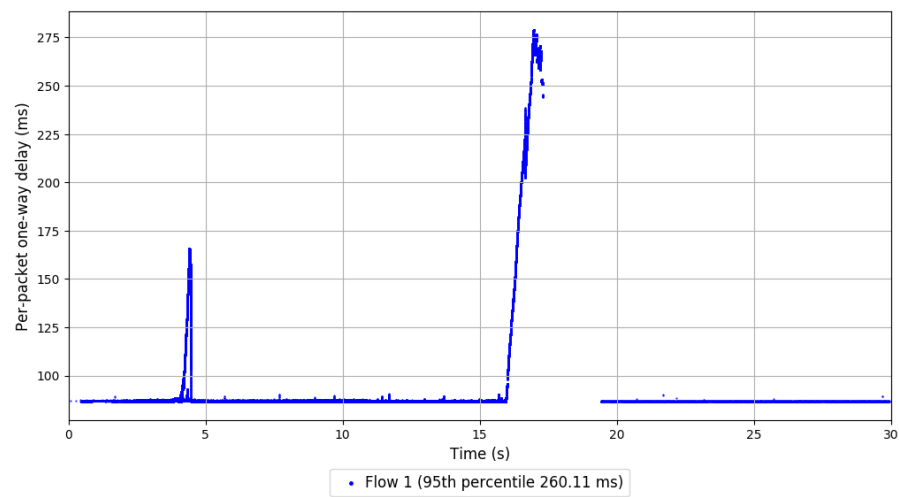
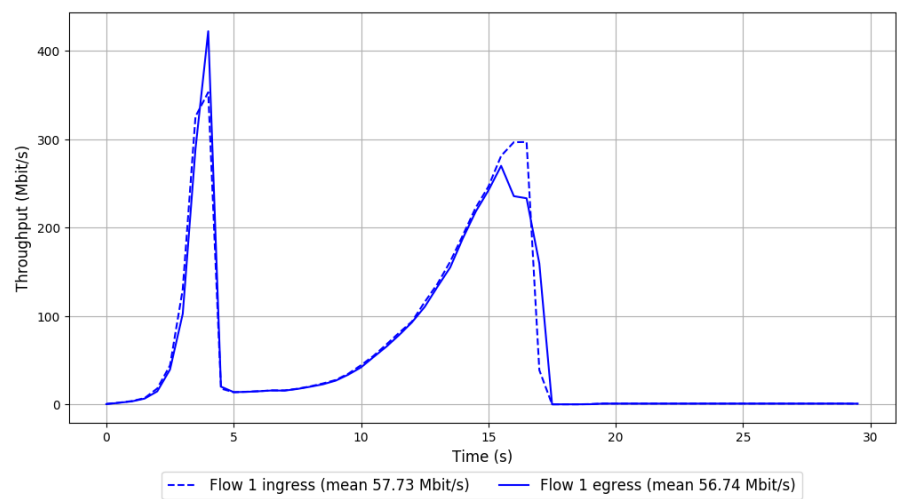
-- Flow 1:

Average throughput: 56.74 Mbit/s

95th percentile per-packet one-way delay: 260.112 ms

Loss rate: 1.72%

Run 7: Report of Vivace-LTE — Data Link



Run 8: Statistics of Vivace-LTE

Start at: 2018-01-16 11:42:55

End at: 2018-01-16 11:43:25

Below is generated by plot.py at 2018-01-16 14:21:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.29 Mbit/s

95th percentile per-packet one-way delay: 115.027 ms

Loss rate: 0.00%

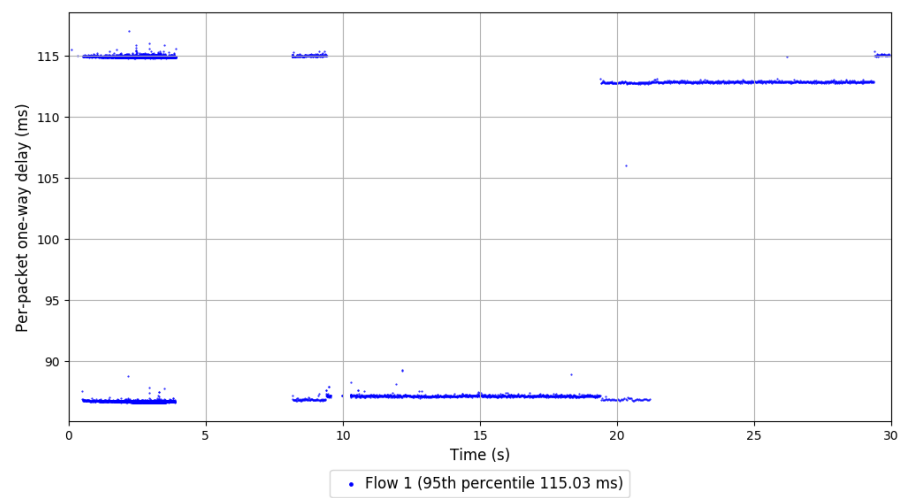
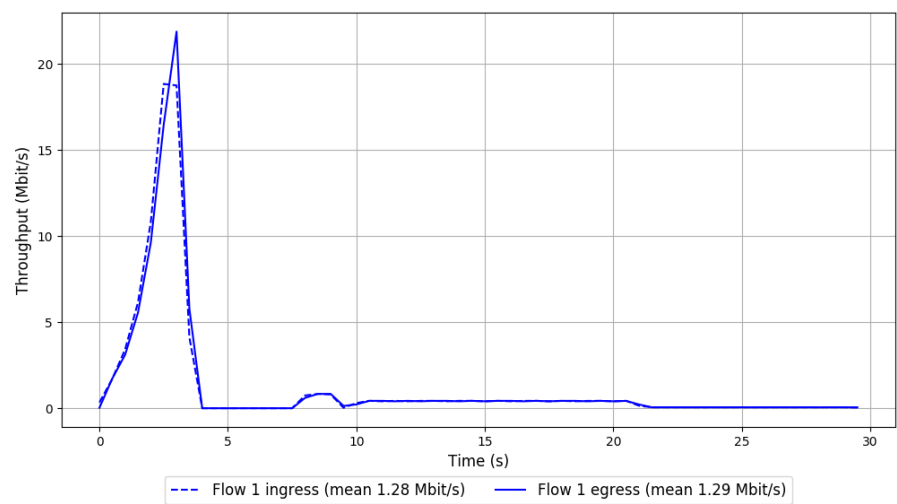
-- Flow 1:

Average throughput: 1.29 Mbit/s

95th percentile per-packet one-way delay: 115.027 ms

Loss rate: 0.00%

Run 8: Report of Vivace-LTE — Data Link



Run 9: Statistics of Vivace-LTE

Start at: 2018-01-16 11:56:52

End at: 2018-01-16 11:57:22

Below is generated by plot.py at 2018-01-16 14:21:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 142.76 Mbit/s

95th percentile per-packet one-way delay: 114.621 ms

Loss rate: 0.19%

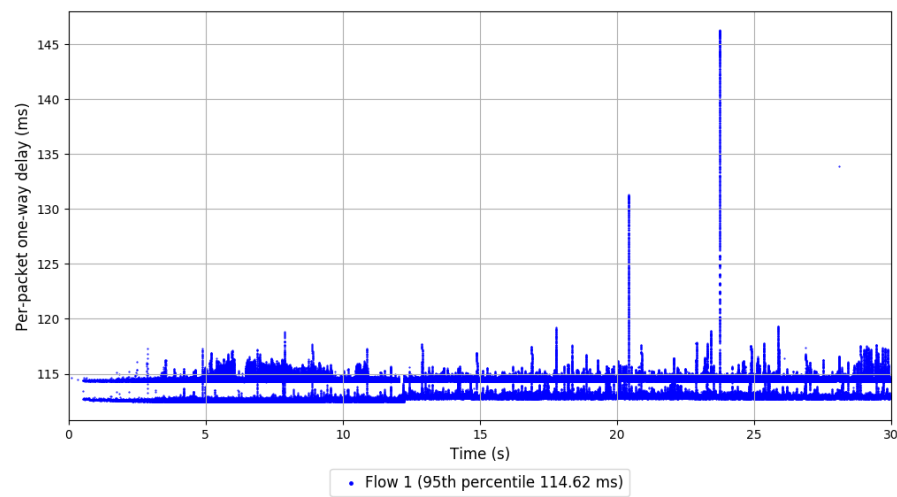
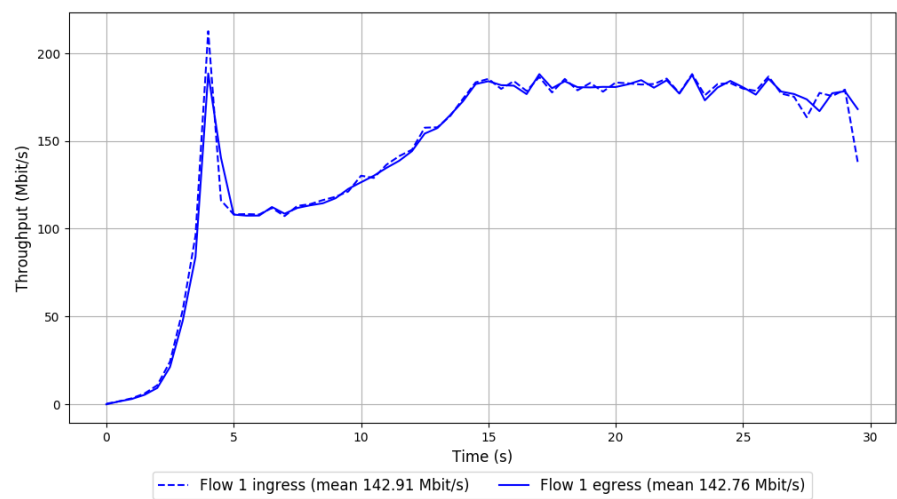
-- Flow 1:

Average throughput: 142.76 Mbit/s

95th percentile per-packet one-way delay: 114.621 ms

Loss rate: 0.19%

Run 9: Report of Vivace-LTE — Data Link



```
Run 10: Statistics of Vivace-LTE

Start at: 2018-01-16 12:10:54
End at: 2018-01-16 12:11:24

# Below is generated by plot.py at 2018-01-16 14:21:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.12 Mbit/s
95th percentile per-packet one-way delay: 112.674 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.12 Mbit/s
95th percentile per-packet one-way delay: 112.674 ms
Loss rate: 0.00%
```

Run 10: Report of Vivace-LTE — Data Link

