

Pantheon Report

Generated at 2018-03-13 18:54:25 (UTC).

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

Repeated the test of 17 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

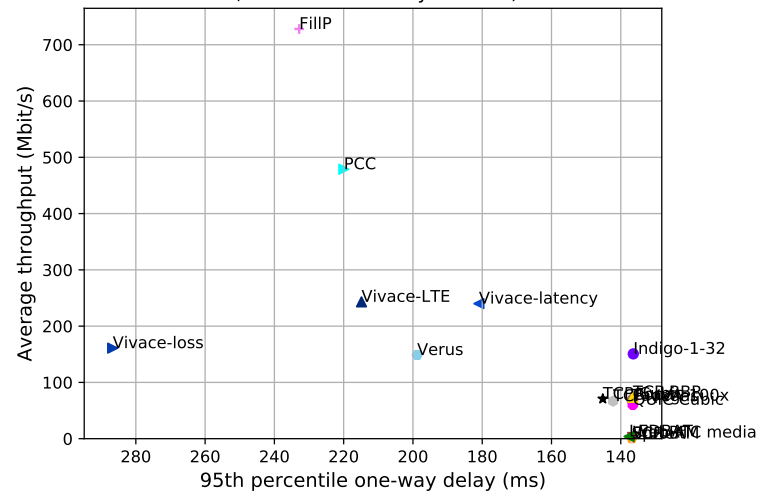
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

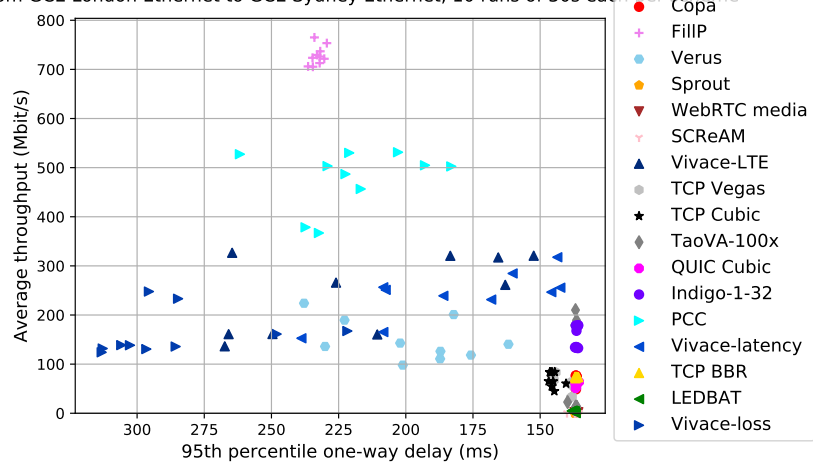
Git summary:

```
branch: master @ f12c42a2c63fdd9a862eefa0468859bf379b6623
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ 828bbf95fd4941149b5cec90f281d1c69ae1a5c6
third_party/genericCC @ 9249eea3238475c4d8cca1443d28df70bff6c4a2
third_party/indigo @ a9b2060d39e4da2e8987e893e3eca2a6c7cd0ab9
third_party/indigo-1-layer-128-unit @ 3ae9e4ef4230db7484501f82ce8b377695f2f66d
third_party/indigo-1-layer-32-unit @ 2601c92e4aa9d58d38dc4dfe0ecd90c077e64d
third_party/indigo-1-layer-32-unit-no-calib @ 1f3a7f75b41135ed5b540c0fd3505939528e2a5f
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ fb1053193c2861da659ba9013db26744ccfcf993
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ 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 @ 7a4ba531e75b4a6f66f5c4580192120401784ce3
third_party/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

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



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



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	73.54	136.49	1.02
TCP Cubic	10	70.82	145.19	1.04
LEDBAT	10	3.89	137.62	1.86
PCC	10	478.80	219.95	2.45
QUIC Cubic	10	60.29	136.52	1.20
SCReAM	10	0.22	136.84	0.89
WebRTC media	10	2.08	136.57	1.06
Sprout	10	0.39	136.80	0.90
TaoVA-100x	10	67.59	137.01	0.75
TCP Vegas	10	66.74	142.24	0.95
Verus	10	148.70	198.80	1.92
Copa	10	69.27	136.58	0.97
FillP	10	728.04	232.84	12.24
Indigo-1-32	10	150.68	136.39	0.94
Vivace-latency	10	240.03	180.96	1.87
Vivace-loss	10	160.90	286.68	7.91
Vivace-LTE	10	243.18	214.85	2.85

Run 1: Statistics of TCP BBR

Start at: 2018-03-13 12:17:11

End at: 2018-03-13 12:17:41

Below is generated by plot.py at 2018-03-13 17:37:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.27 Mbit/s

95th percentile per-packet one-way delay: 136.961 ms

Loss rate: 1.03%

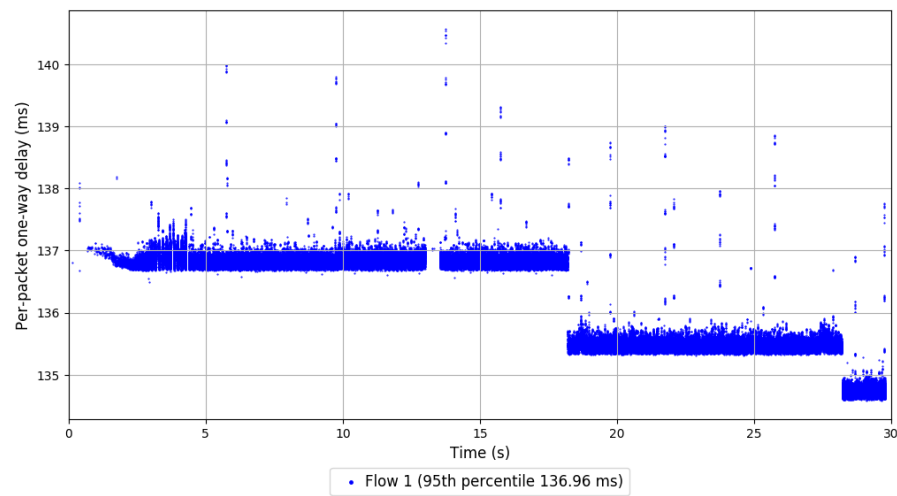
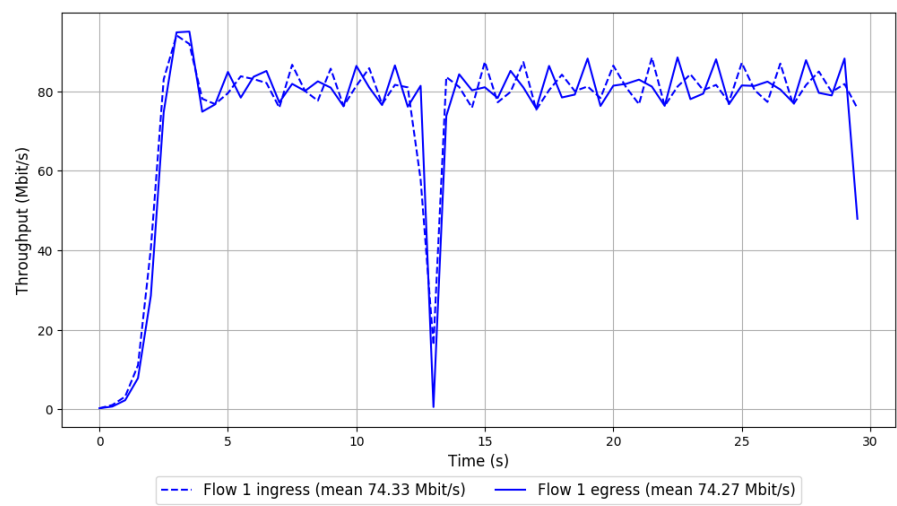
-- Flow 1:

Average throughput: 74.27 Mbit/s

95th percentile per-packet one-way delay: 136.961 ms

Loss rate: 1.03%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-03-13 12:32:54

End at: 2018-03-13 12:33:24

Below is generated by plot.py at 2018-03-13 17:37:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.74 Mbit/s

95th percentile per-packet one-way delay: 136.951 ms

Loss rate: 0.98%

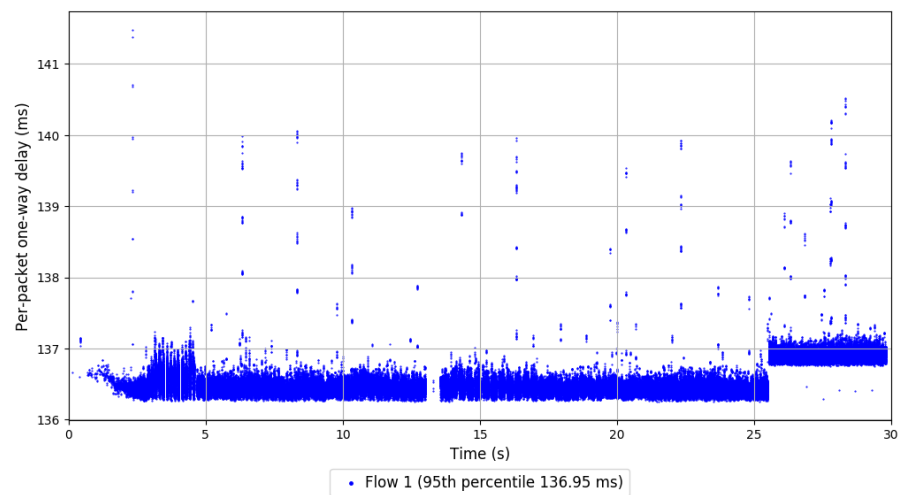
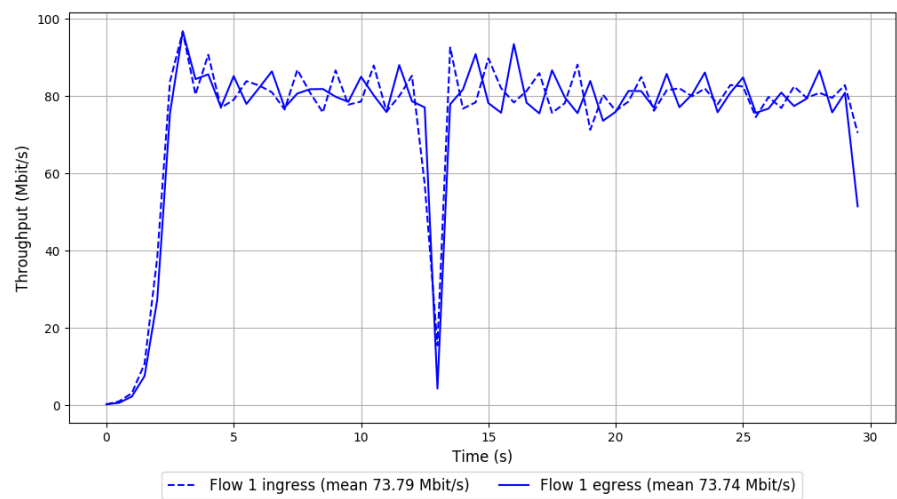
-- Flow 1:

Average throughput: 73.74 Mbit/s

95th percentile per-packet one-way delay: 136.951 ms

Loss rate: 0.98%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-03-13 12:48:12

End at: 2018-03-13 12:48:42

Below is generated by plot.py at 2018-03-13 17:37:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.22 Mbit/s

95th percentile per-packet one-way delay: 136.815 ms

Loss rate: 1.20%

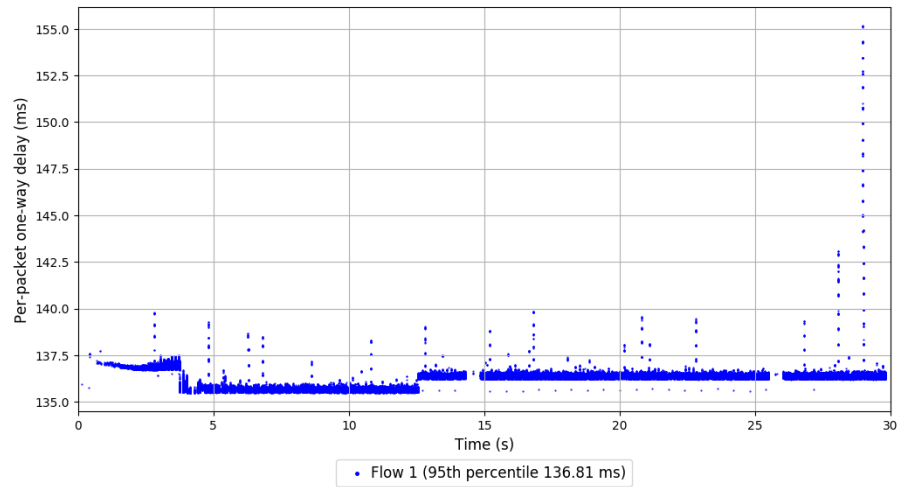
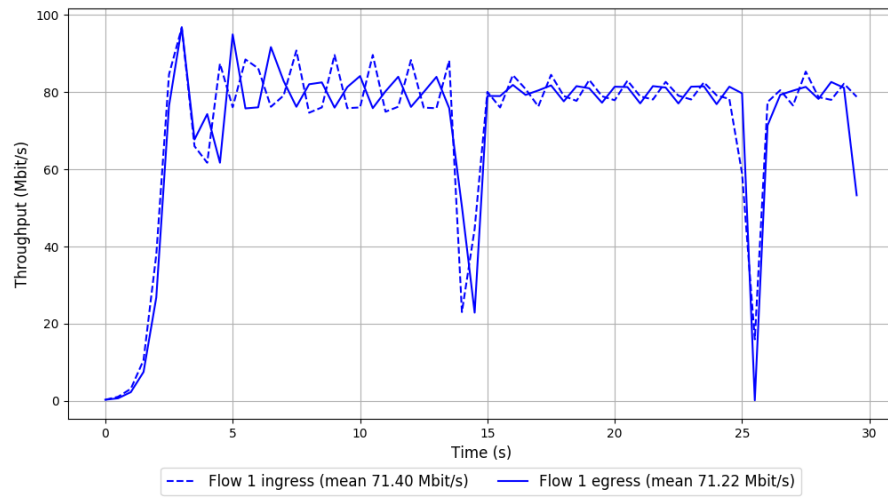
-- Flow 1:

Average throughput: 71.22 Mbit/s

95th percentile per-packet one-way delay: 136.815 ms

Loss rate: 1.20%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-03-13 13:03:51

End at: 2018-03-13 13:04:21

Below is generated by plot.py at 2018-03-13 17:37:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.76 Mbit/s

95th percentile per-packet one-way delay: 136.521 ms

Loss rate: 0.97%

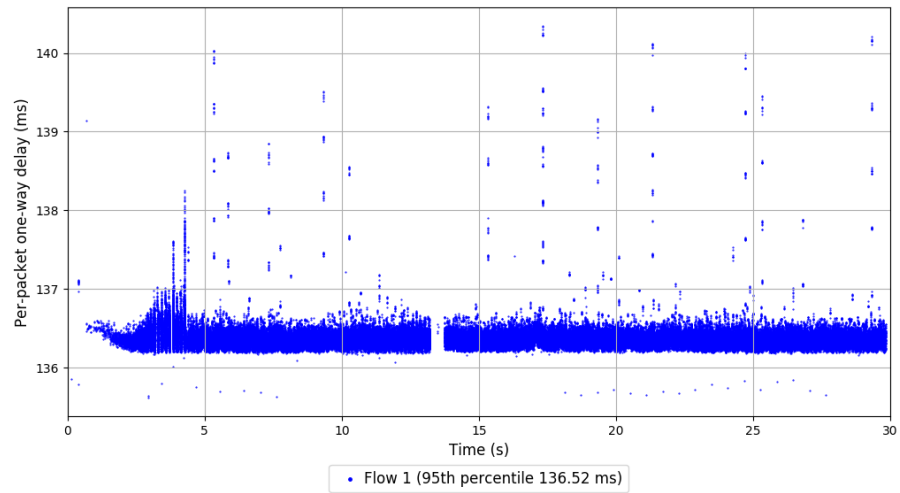
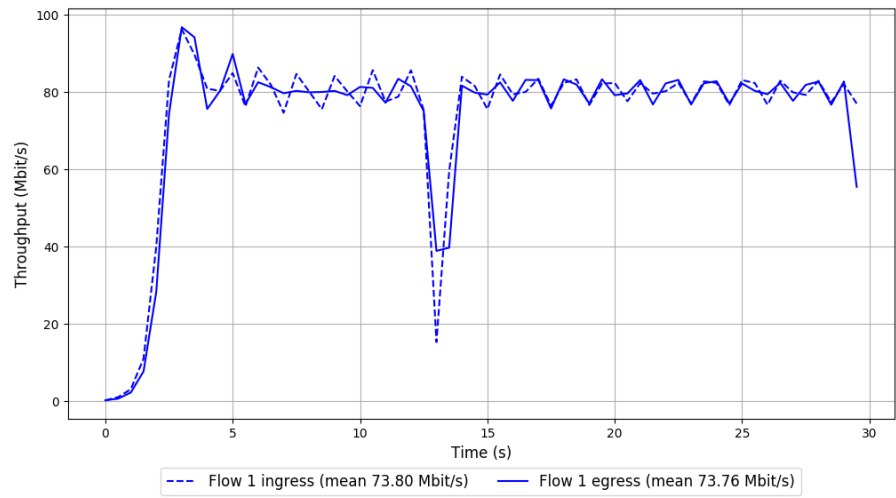
-- Flow 1:

Average throughput: 73.76 Mbit/s

95th percentile per-packet one-way delay: 136.521 ms

Loss rate: 0.97%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-03-13 13:19:45

End at: 2018-03-13 13:20:15

Below is generated by plot.py at 2018-03-13 17:37:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.00 Mbit/s

95th percentile per-packet one-way delay: 136.510 ms

Loss rate: 1.08%

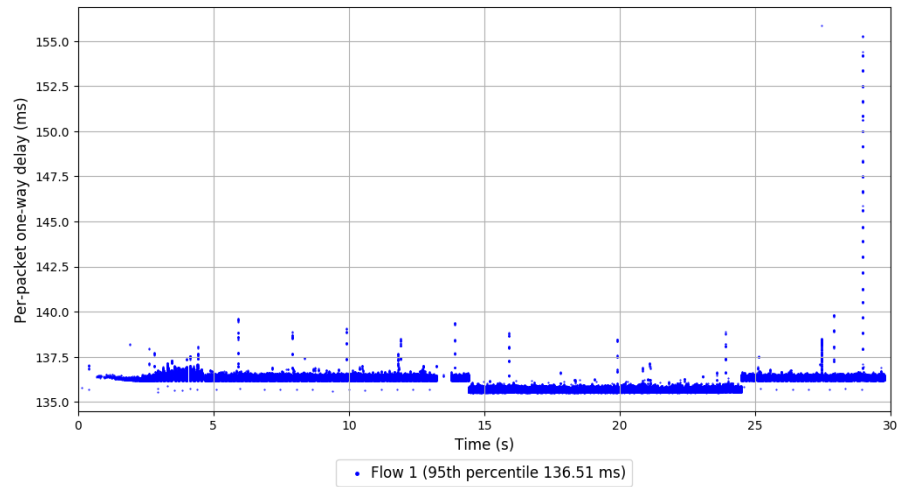
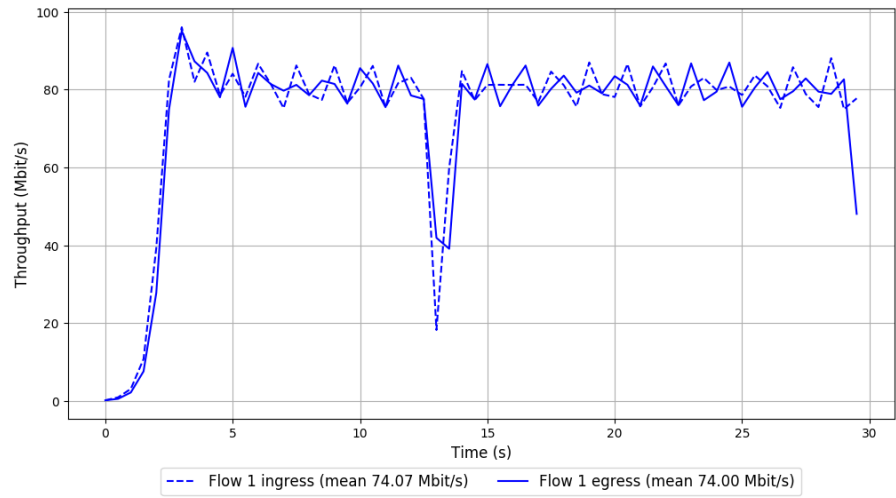
-- Flow 1:

Average throughput: 74.00 Mbit/s

95th percentile per-packet one-way delay: 136.510 ms

Loss rate: 1.08%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-03-13 13:35:25

End at: 2018-03-13 13:35:55

Below is generated by plot.py at 2018-03-13 17:37:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.80 Mbit/s

95th percentile per-packet one-way delay: 135.884 ms

Loss rate: 1.02%

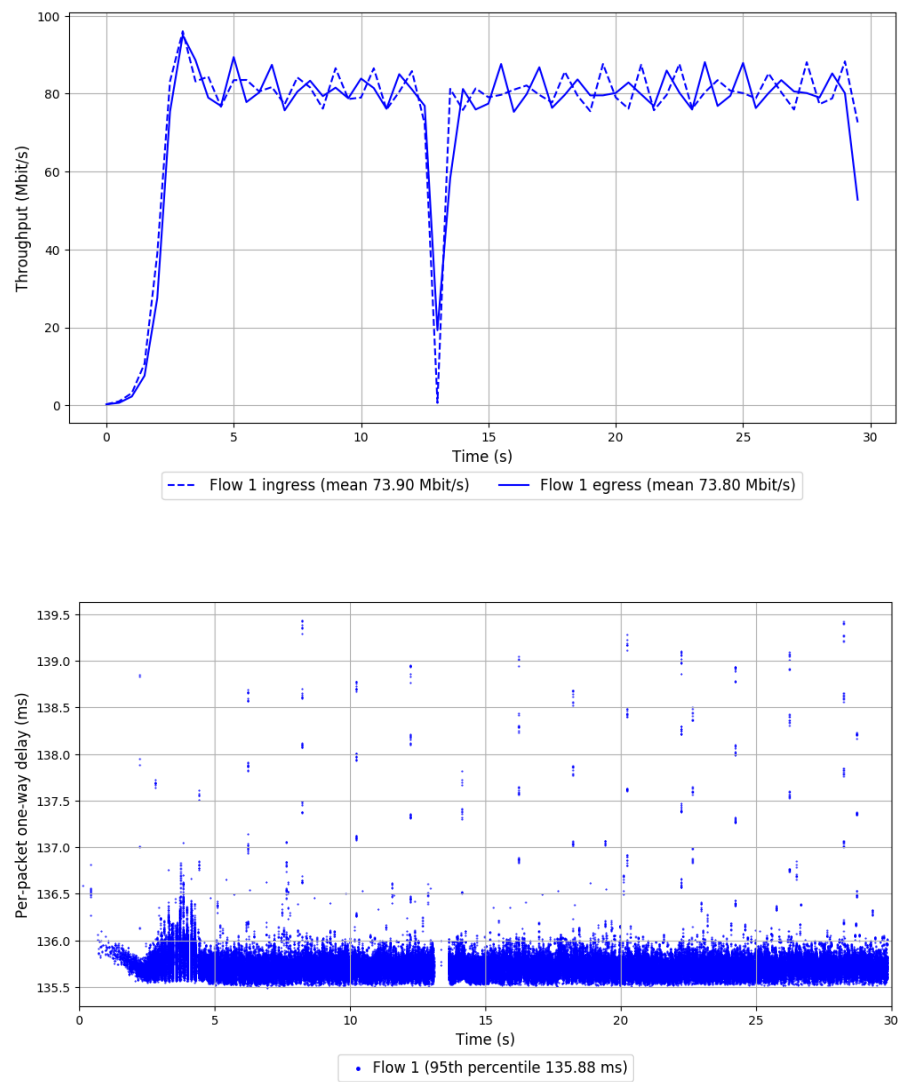
-- Flow 1:

Average throughput: 73.80 Mbit/s

95th percentile per-packet one-way delay: 135.884 ms

Loss rate: 1.02%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-03-13 13:50:40

End at: 2018-03-13 13:51:10

Below is generated by plot.py at 2018-03-13 17:37:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.91 Mbit/s

95th percentile per-packet one-way delay: 135.967 ms

Loss rate: 0.96%

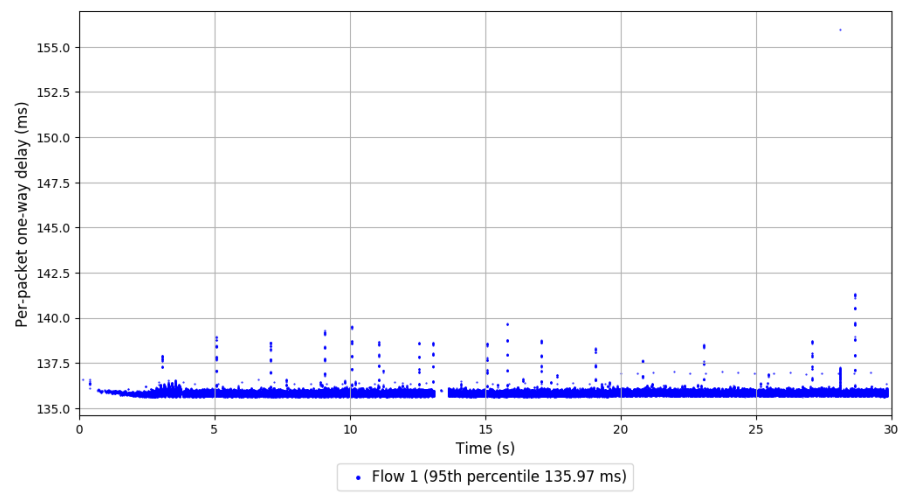
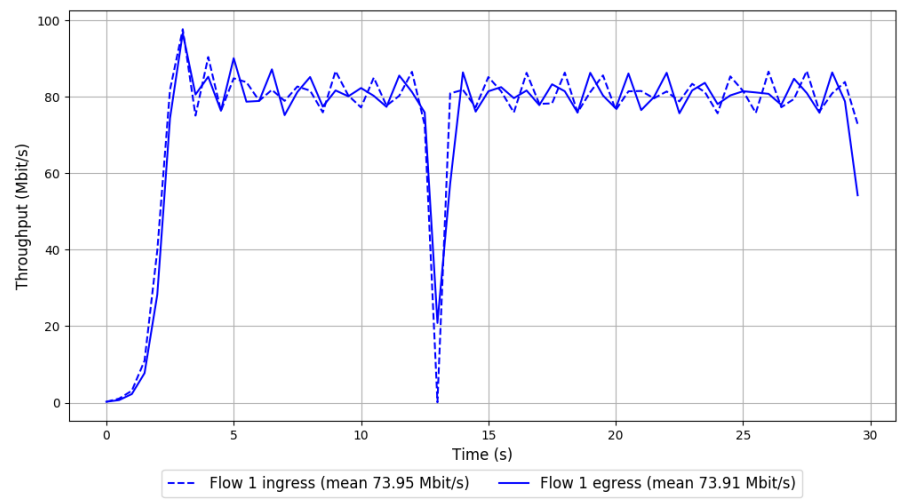
-- Flow 1:

Average throughput: 73.91 Mbit/s

95th percentile per-packet one-way delay: 135.967 ms

Loss rate: 0.96%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-03-13 14:06:07

End at: 2018-03-13 14:06:37

Below is generated by plot.py at 2018-03-13 17:37:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.34 Mbit/s

95th percentile per-packet one-way delay: 136.794 ms

Loss rate: 1.07%

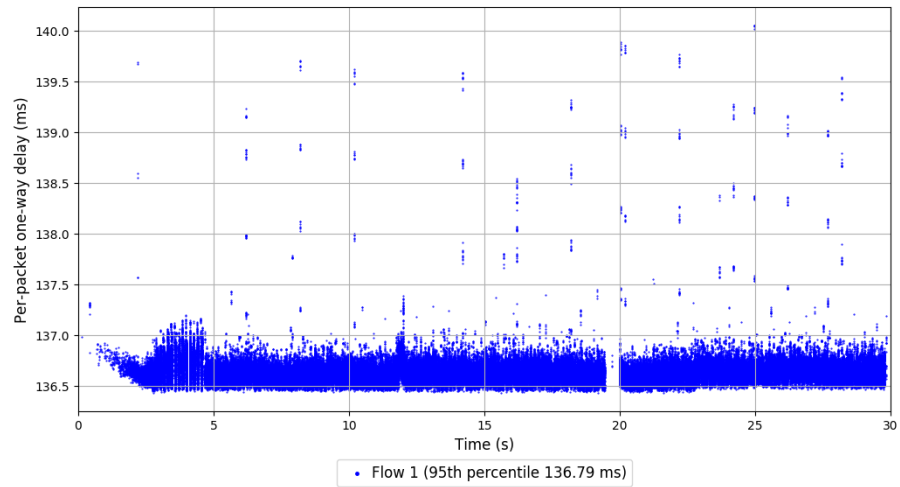
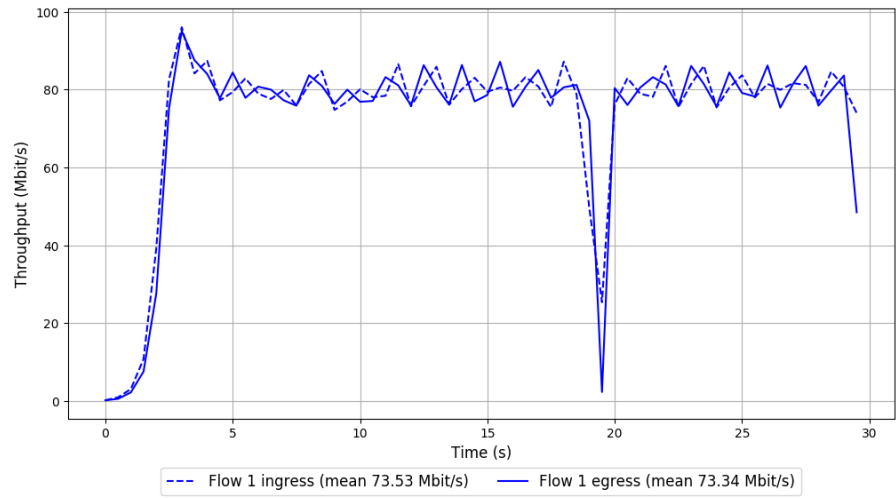
-- Flow 1:

Average throughput: 73.34 Mbit/s

95th percentile per-packet one-way delay: 136.794 ms

Loss rate: 1.07%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-03-13 14:21:19

End at: 2018-03-13 14:21:49

Below is generated by plot.py at 2018-03-13 17:39:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.58 Mbit/s

95th percentile per-packet one-way delay: 136.680 ms

Loss rate: 0.97%

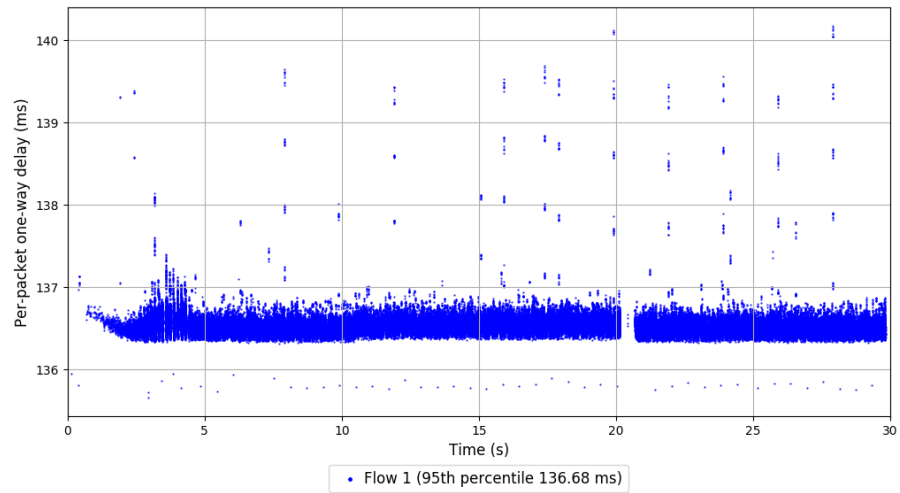
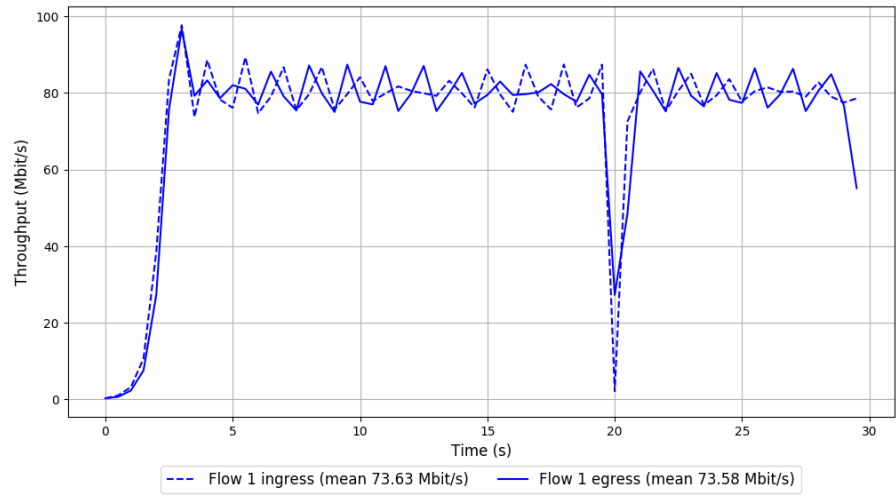
-- Flow 1:

Average throughput: 73.58 Mbit/s

95th percentile per-packet one-way delay: 136.680 ms

Loss rate: 0.97%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-03-13 14:36:55

End at: 2018-03-13 14:37:25

Below is generated by plot.py at 2018-03-13 17:39:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.74 Mbit/s

95th percentile per-packet one-way delay: 135.834 ms

Loss rate: 0.96%

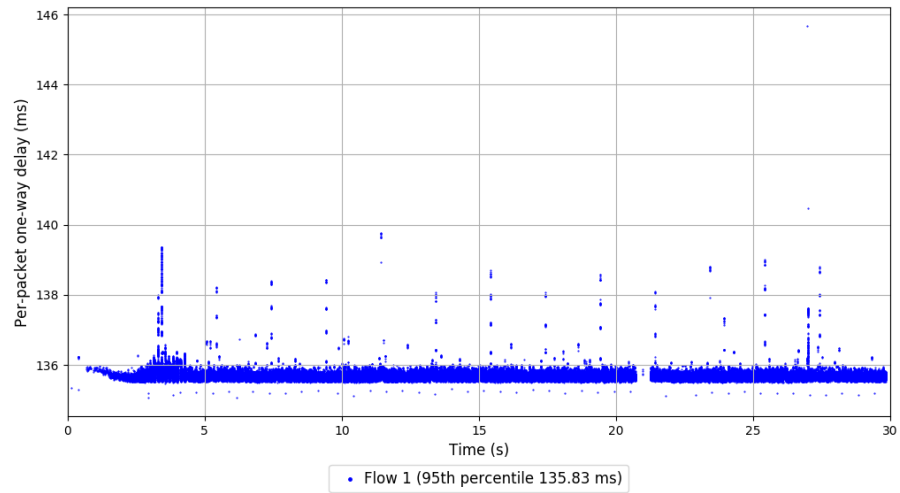
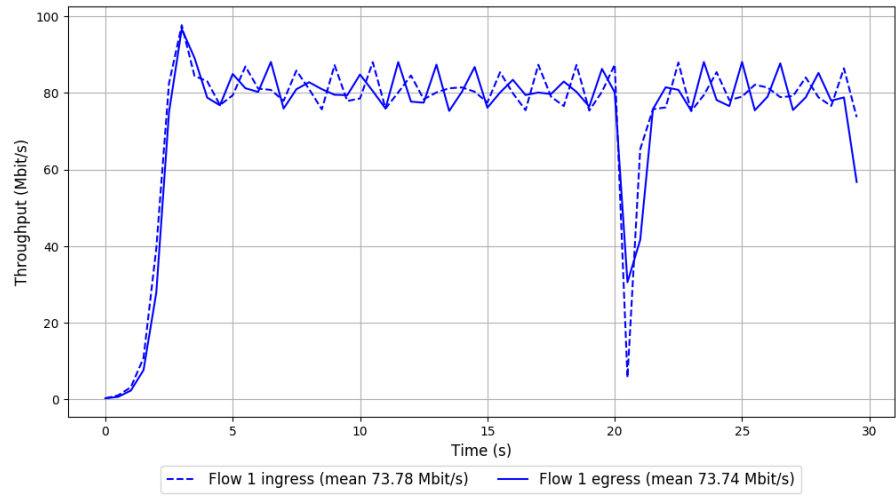
-- Flow 1:

Average throughput: 73.74 Mbit/s

95th percentile per-packet one-way delay: 135.834 ms

Loss rate: 0.96%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-03-13 12:28:26

End at: 2018-03-13 12:28:56

Below is generated by plot.py at 2018-03-13 17:39:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.94 Mbit/s

95th percentile per-packet one-way delay: 145.143 ms

Loss rate: 0.85%

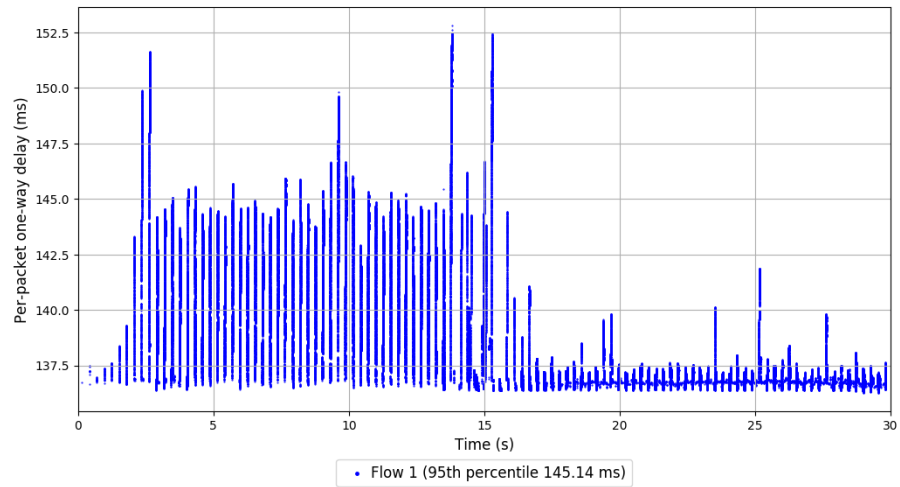
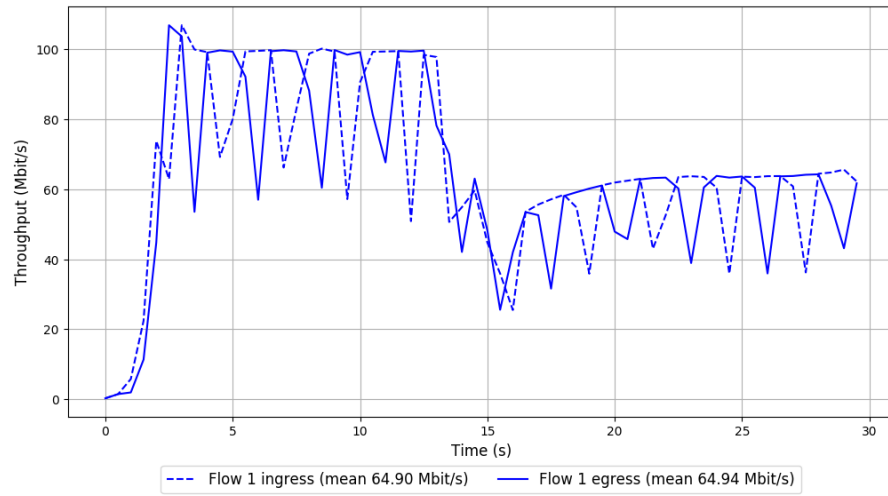
-- Flow 1:

Average throughput: 64.94 Mbit/s

95th percentile per-packet one-way delay: 145.143 ms

Loss rate: 0.85%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-03-13 12:43:58

End at: 2018-03-13 12:44:28

Below is generated by plot.py at 2018-03-13 17:39:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.91 Mbit/s

95th percentile per-packet one-way delay: 145.606 ms

Loss rate: 1.00%

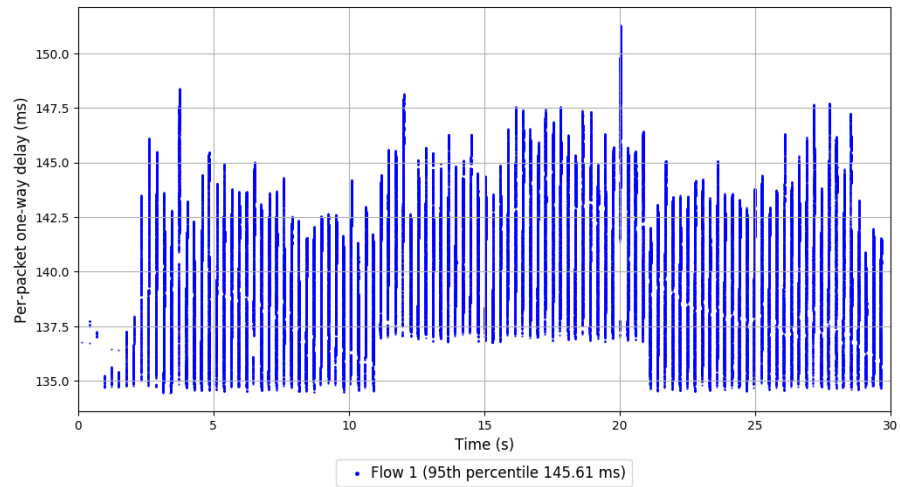
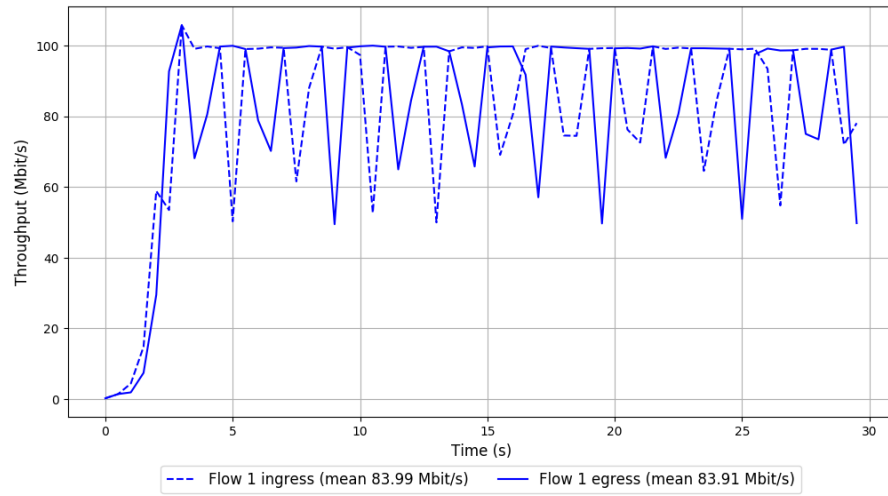
-- Flow 1:

Average throughput: 83.91 Mbit/s

95th percentile per-packet one-way delay: 145.606 ms

Loss rate: 1.00%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-03-13 12:59:32

End at: 2018-03-13 13:00:02

Below is generated by plot.py at 2018-03-13 17:39:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.80 Mbit/s

95th percentile per-packet one-way delay: 146.387 ms

Loss rate: 1.03%

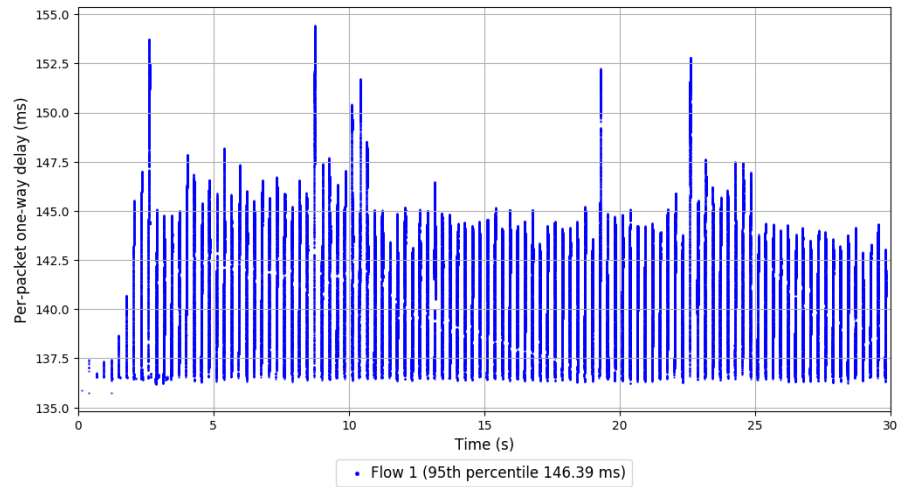
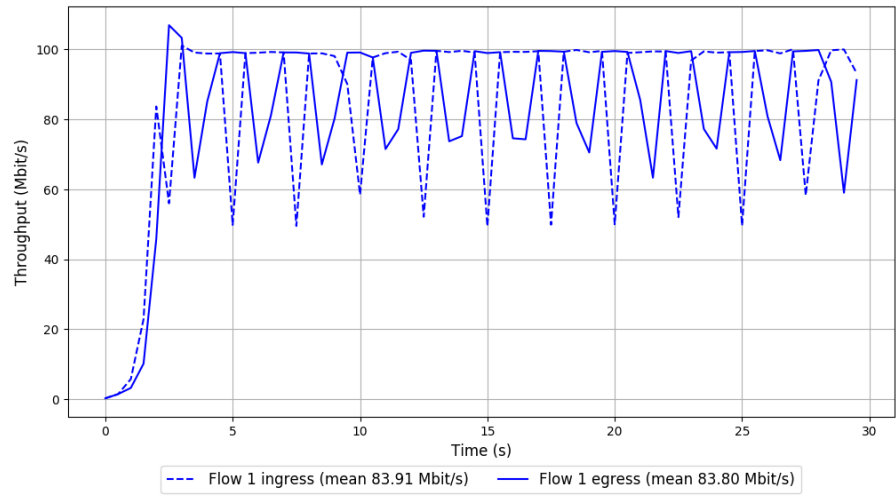
-- Flow 1:

Average throughput: 83.80 Mbit/s

95th percentile per-packet one-way delay: 146.387 ms

Loss rate: 1.03%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-03-13 13:15:16

End at: 2018-03-13 13:15:46

Below is generated by plot.py at 2018-03-13 17:39:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.24 Mbit/s

95th percentile per-packet one-way delay: 146.259 ms

Loss rate: 0.81%

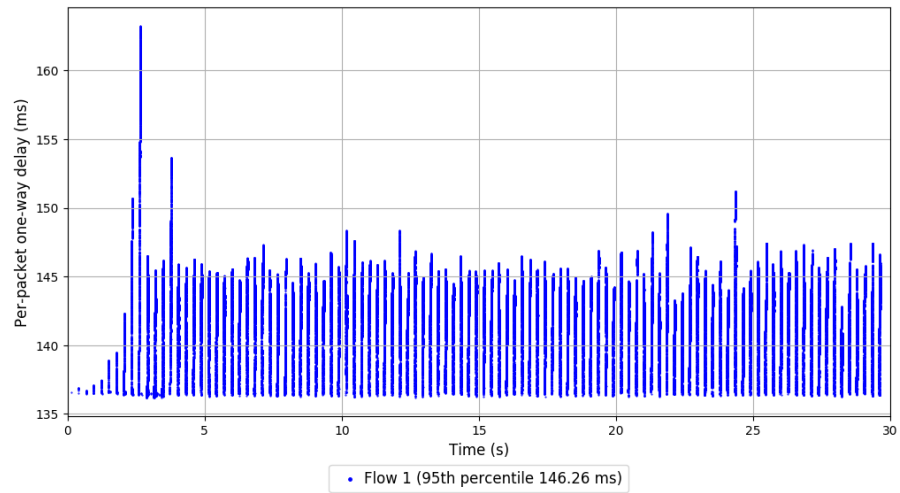
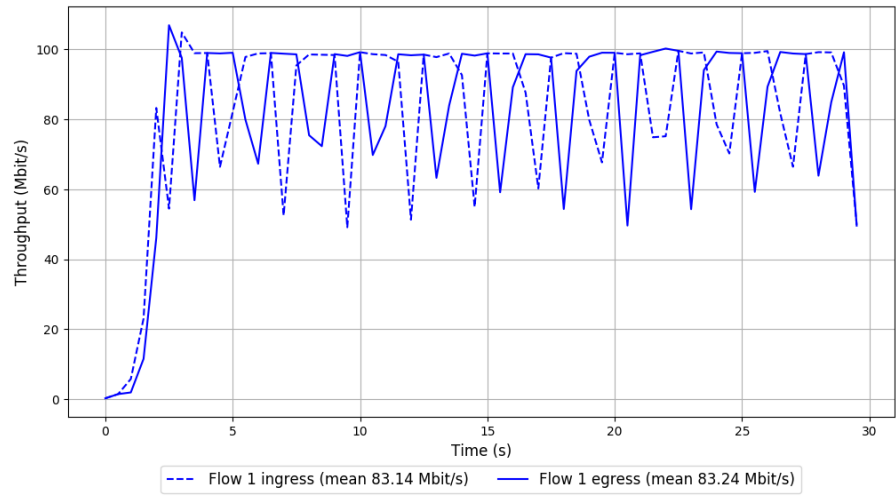
-- Flow 1:

Average throughput: 83.24 Mbit/s

95th percentile per-packet one-way delay: 146.259 ms

Loss rate: 0.81%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-03-13 13:30:54

End at: 2018-03-13 13:31:24

Below is generated by plot.py at 2018-03-13 17:39:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 65.12 Mbit/s

95th percentile per-packet one-way delay: 146.843 ms

Loss rate: 0.59%

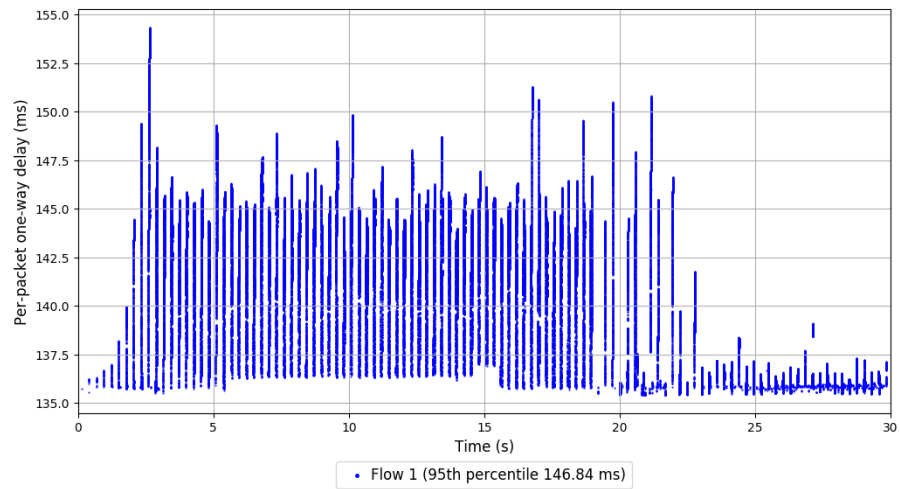
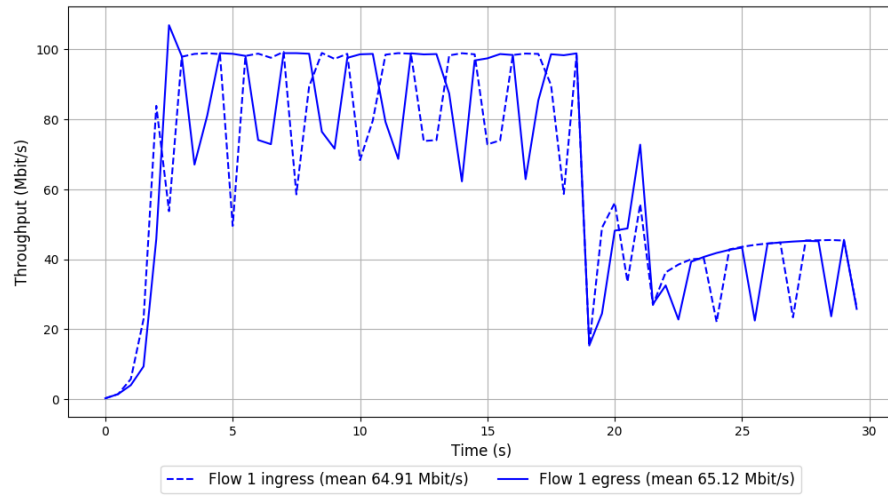
-- Flow 1:

Average throughput: 65.12 Mbit/s

95th percentile per-packet one-way delay: 146.843 ms

Loss rate: 0.59%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-03-13 13:46:32

End at: 2018-03-13 13:47:02

Below is generated by plot.py at 2018-03-13 17:39:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.02 Mbit/s

95th percentile per-packet one-way delay: 144.564 ms

Loss rate: 0.99%

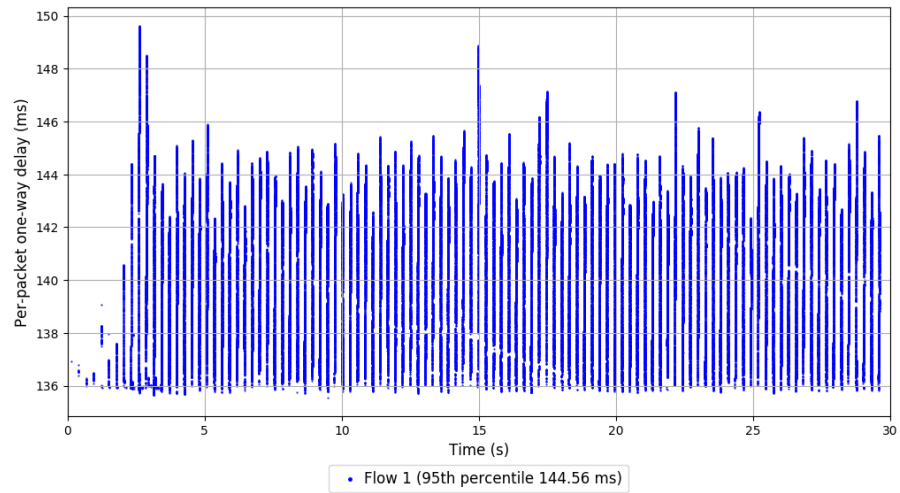
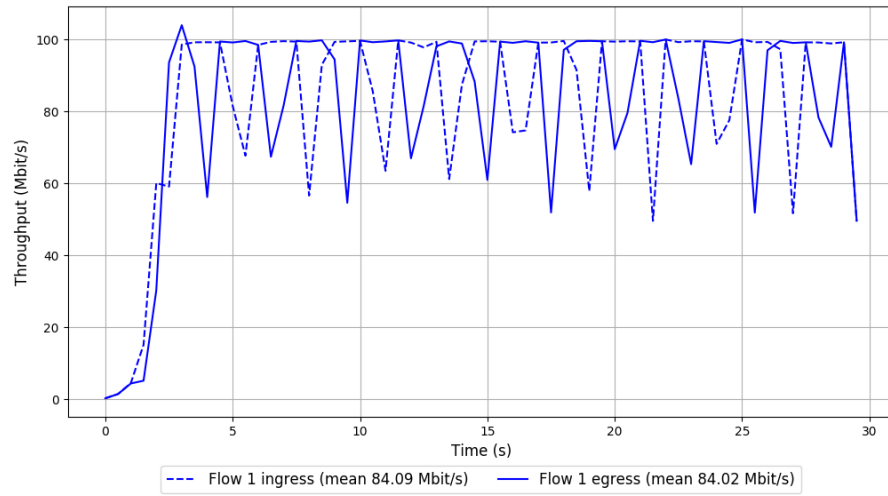
-- Flow 1:

Average throughput: 84.02 Mbit/s

95th percentile per-packet one-way delay: 144.564 ms

Loss rate: 0.99%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-03-13 14:01:54

End at: 2018-03-13 14:02:24

Below is generated by plot.py at 2018-03-13 17:40:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 44.94 Mbit/s

95th percentile per-packet one-way delay: 144.728 ms

Loss rate: 1.76%

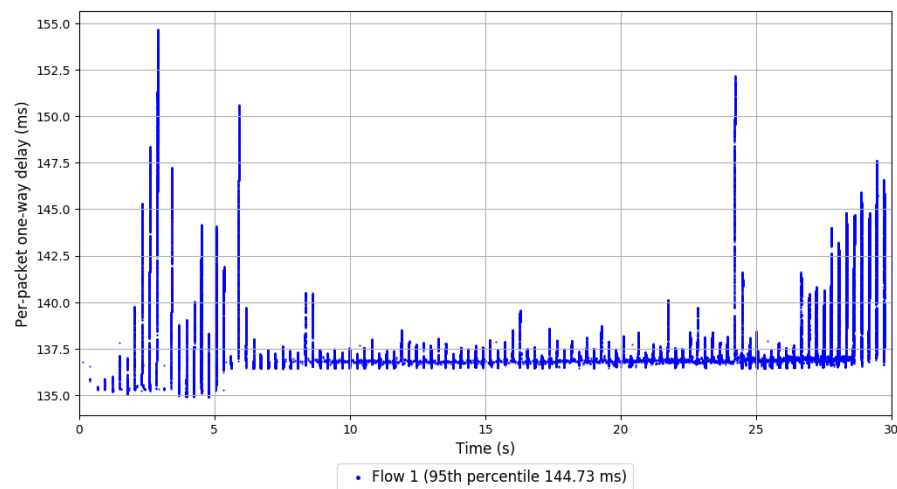
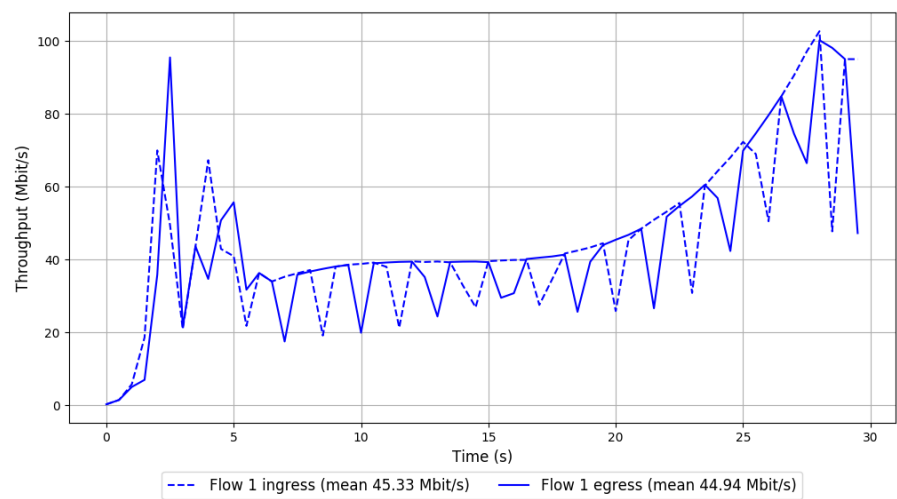
-- Flow 1:

Average throughput: 44.94 Mbit/s

95th percentile per-packet one-way delay: 144.728 ms

Loss rate: 1.76%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-03-13 14:17:08

End at: 2018-03-13 14:17:38

Below is generated by plot.py at 2018-03-13 17:40:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 54.46 Mbit/s

95th percentile per-packet one-way delay: 145.680 ms

Loss rate: 1.56%

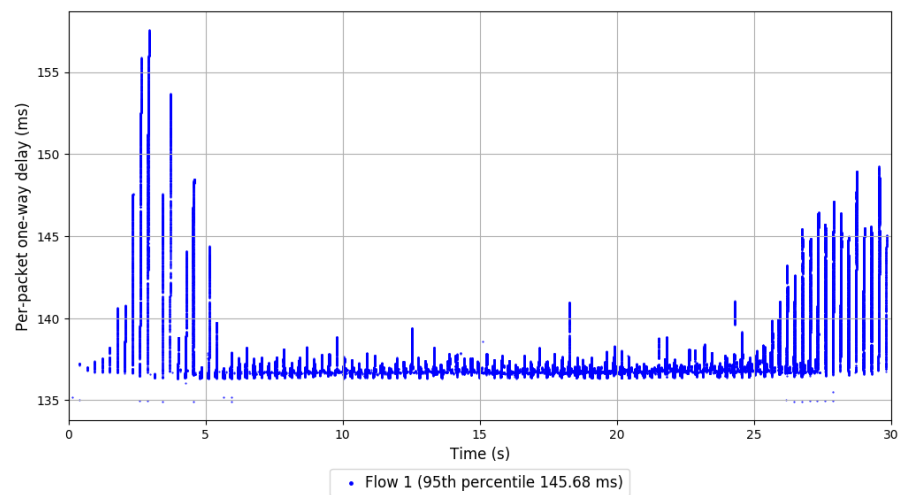
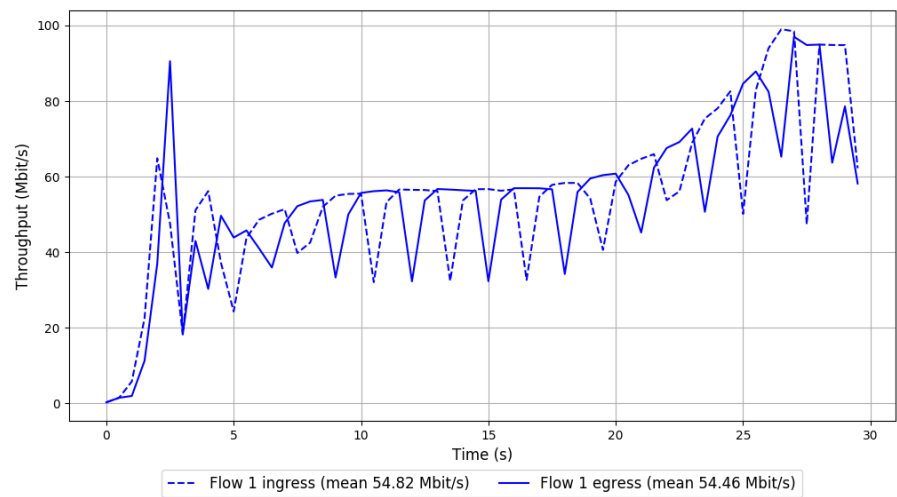
-- Flow 1:

Average throughput: 54.46 Mbit/s

95th percentile per-packet one-way delay: 145.680 ms

Loss rate: 1.56%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-03-13 14:32:32

End at: 2018-03-13 14:33:02

Below is generated by plot.py at 2018-03-13 17:41:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.39 Mbit/s

95th percentile per-packet one-way delay: 146.317 ms

Loss rate: 0.99%

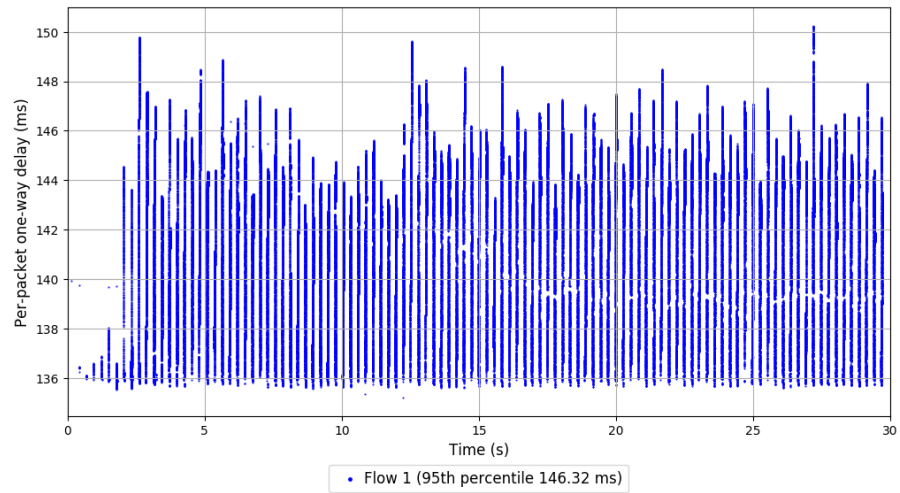
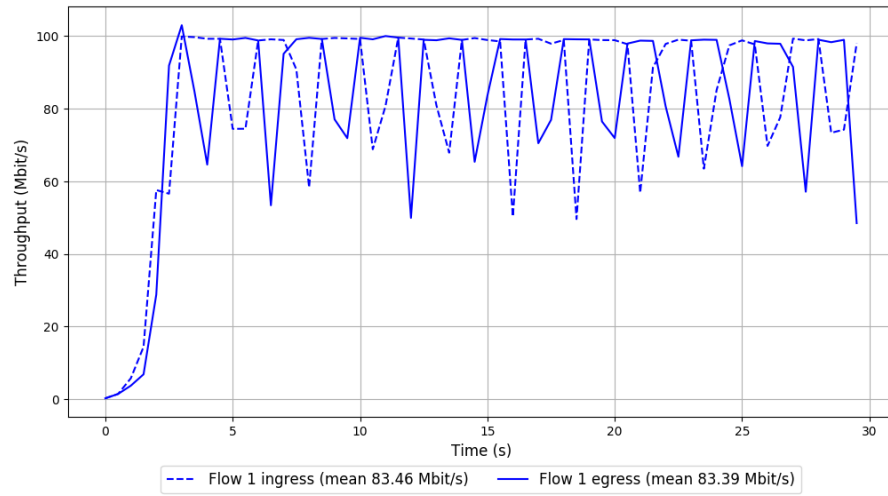
-- Flow 1:

Average throughput: 83.39 Mbit/s

95th percentile per-packet one-way delay: 146.317 ms

Loss rate: 0.99%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-03-13 14:48:10

End at: 2018-03-13 14:48:40

Below is generated by plot.py at 2018-03-13 17:41:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 60.39 Mbit/s

95th percentile per-packet one-way delay: 140.362 ms

Loss rate: 0.78%

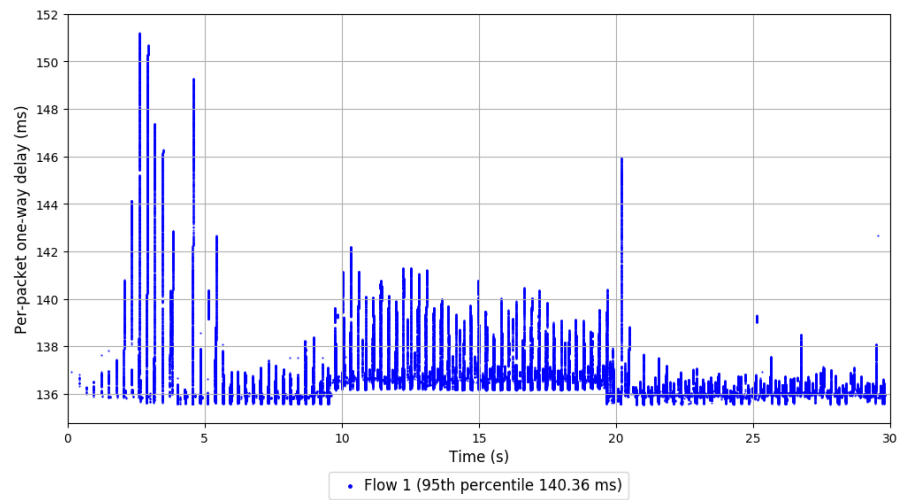
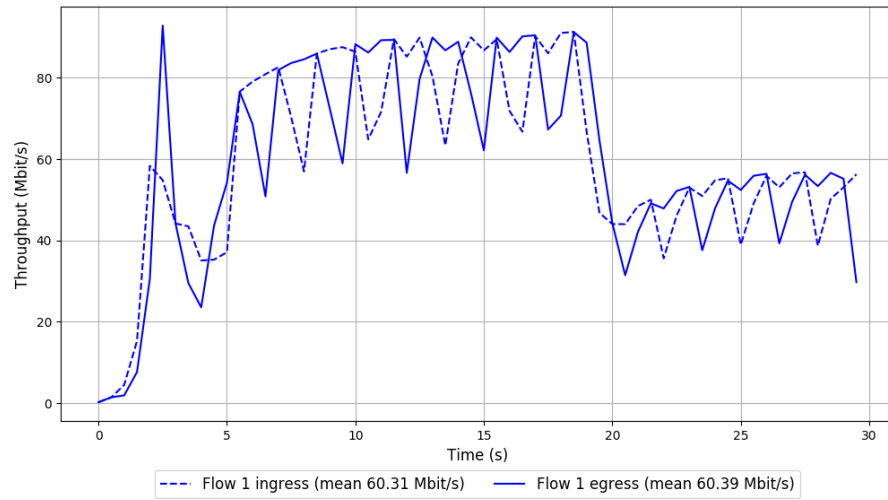
-- Flow 1:

Average throughput: 60.39 Mbit/s

95th percentile per-packet one-way delay: 140.362 ms

Loss rate: 0.78%

Run 10: Report of TCP Cubic — Data Link

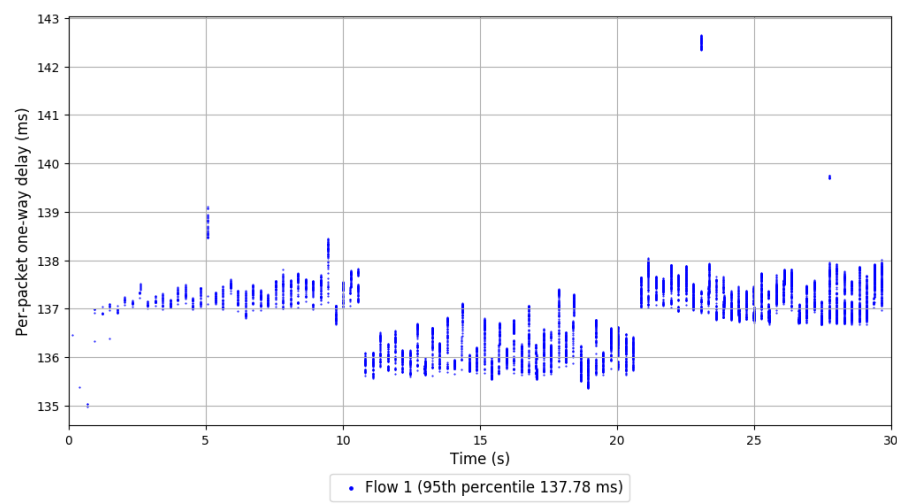
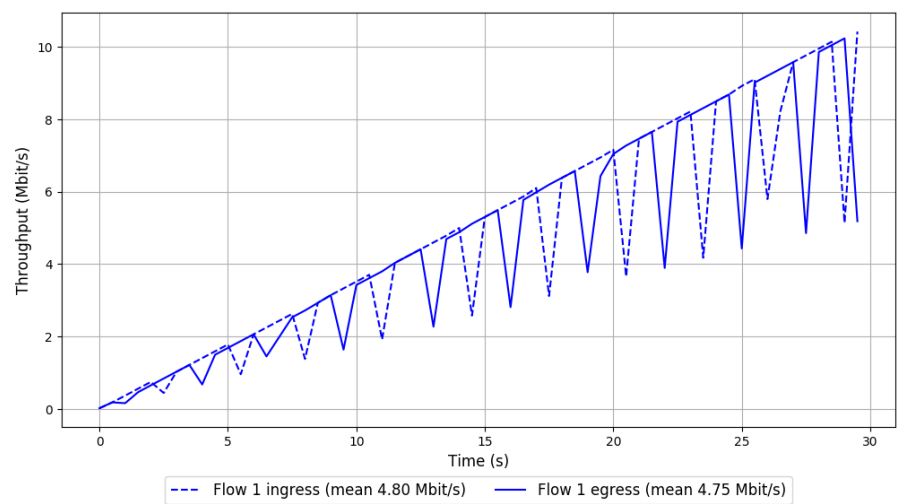


```
Run 1: Statistics of LEDBAT

Start at: 2018-03-13 12:21:18
End at: 2018-03-13 12:21:48

# Below is generated by plot.py at 2018-03-13 17:41:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 4.75 Mbit/s
95th percentile per-packet one-way delay: 137.782 ms
Loss rate: 1.83%
-- Flow 1:
Average throughput: 4.75 Mbit/s
95th percentile per-packet one-way delay: 137.782 ms
Loss rate: 1.83%
```

Run 1: Report of LEDBAT — Data Link

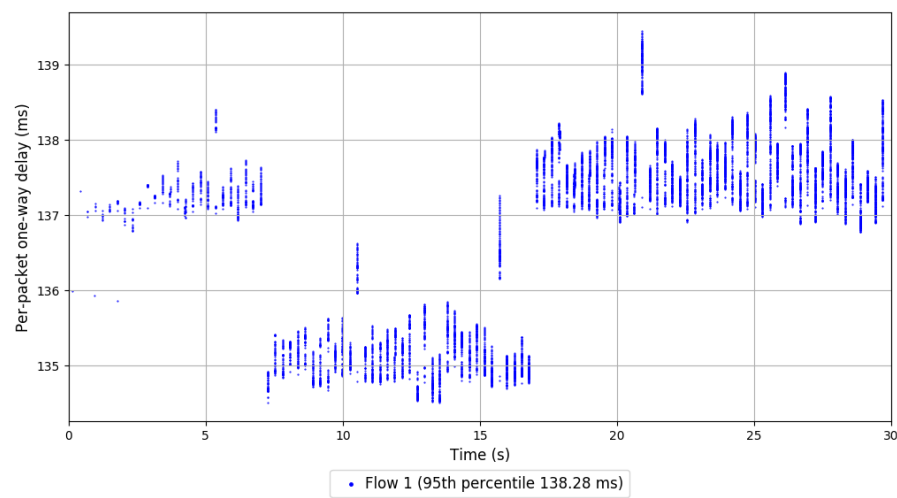
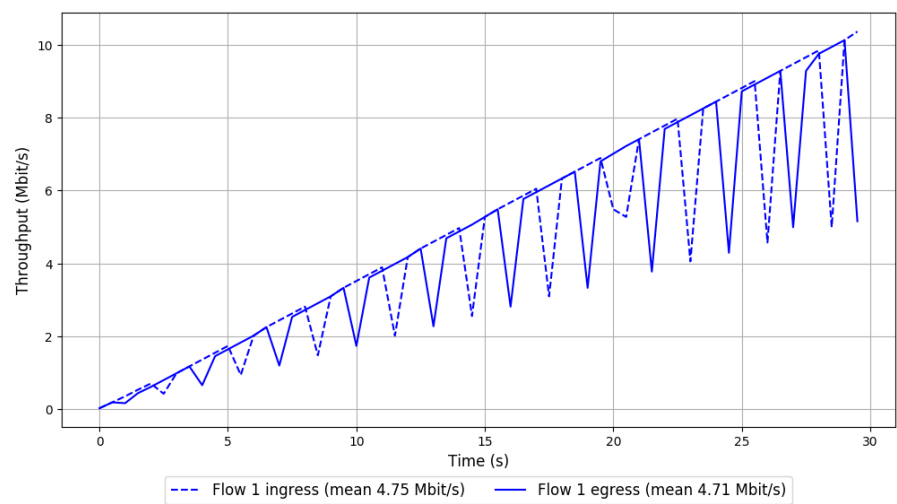


```
Run 2: Statistics of LEDBAT

Start at: 2018-03-13 12:37:02
End at: 2018-03-13 12:37:32

# Below is generated by plot.py at 2018-03-13 17:41:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 4.71 Mbit/s
95th percentile per-packet one-way delay: 138.275 ms
Loss rate: 1.84%
-- Flow 1:
Average throughput: 4.71 Mbit/s
95th percentile per-packet one-way delay: 138.275 ms
Loss rate: 1.84%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-03-13 12:52:19

End at: 2018-03-13 12:52:49

Below is generated by plot.py at 2018-03-13 17:41:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.79 Mbit/s

95th percentile per-packet one-way delay: 137.733 ms

Loss rate: 1.84%

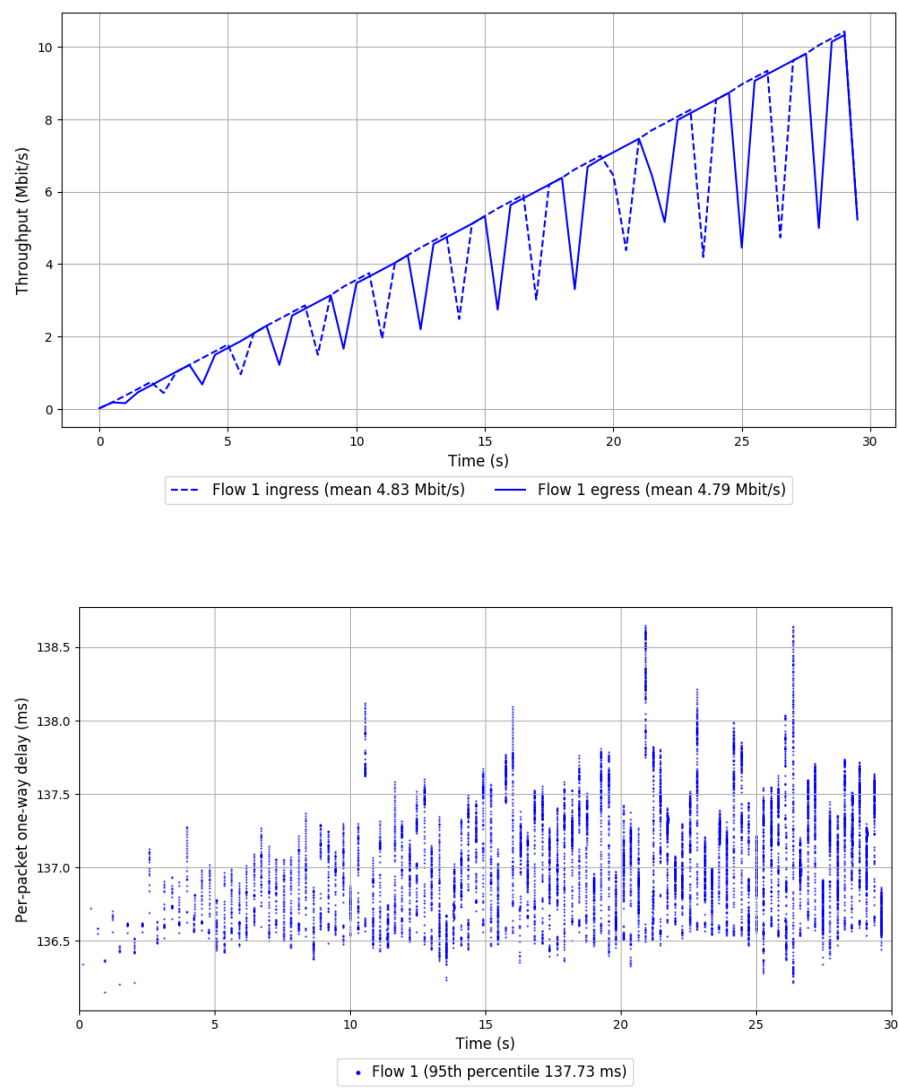
-- Flow 1:

Average throughput: 4.79 Mbit/s

95th percentile per-packet one-way delay: 137.733 ms

Loss rate: 1.84%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-03-13 13:07:59

End at: 2018-03-13 13:08:29

Below is generated by plot.py at 2018-03-13 17:41:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.76 Mbit/s

95th percentile per-packet one-way delay: 138.099 ms

Loss rate: 1.84%

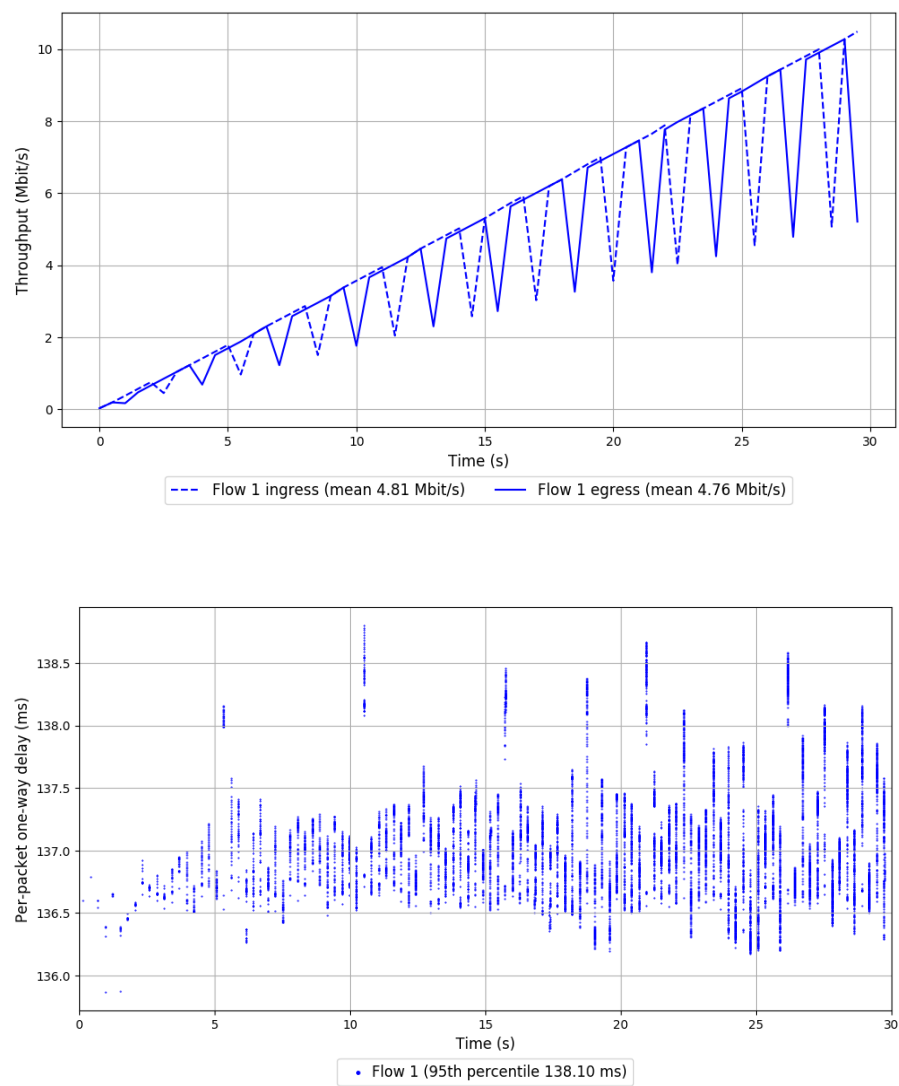
-- Flow 1:

Average throughput: 4.76 Mbit/s

95th percentile per-packet one-way delay: 138.099 ms

Loss rate: 1.84%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-03-13 13:23:53

End at: 2018-03-13 13:24:23

Below is generated by plot.py at 2018-03-13 17:41:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.23 Mbit/s

95th percentile per-packet one-way delay: 137.362 ms

Loss rate: 2.21%

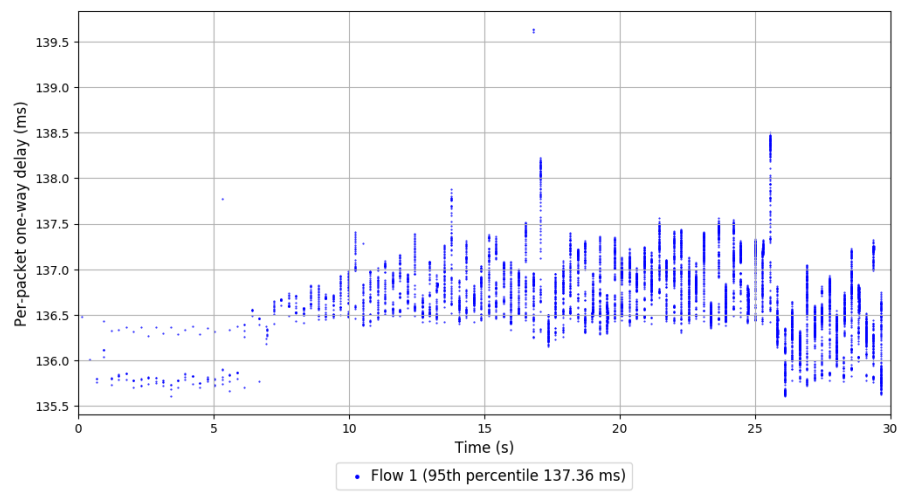
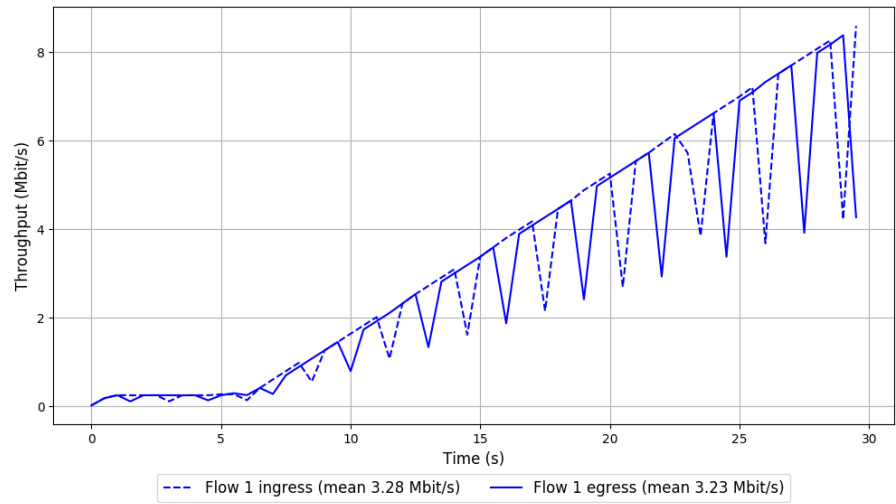
-- Flow 1:

Average throughput: 3.23 Mbit/s

95th percentile per-packet one-way delay: 137.362 ms

Loss rate: 2.21%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-03-13 13:39:27

End at: 2018-03-13 13:39:57

Below is generated by plot.py at 2018-03-13 17:41:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.28 Mbit/s

95th percentile per-packet one-way delay: 136.753 ms

Loss rate: 1.00%

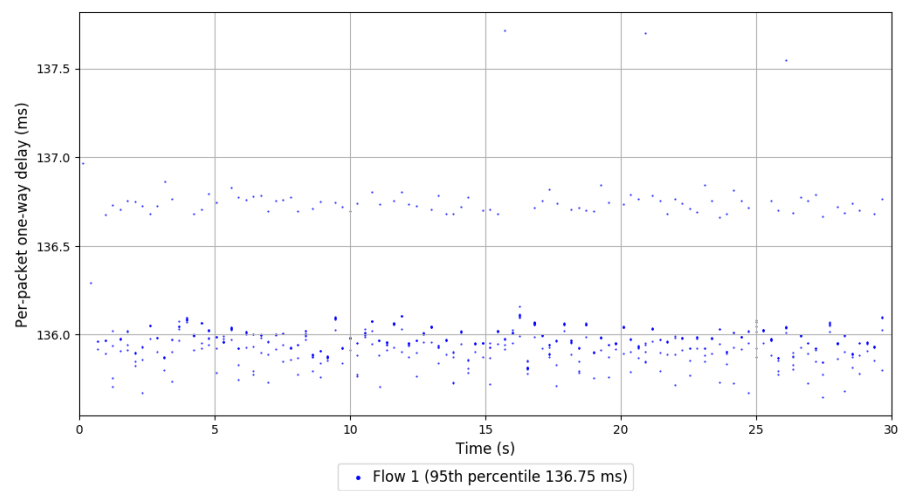
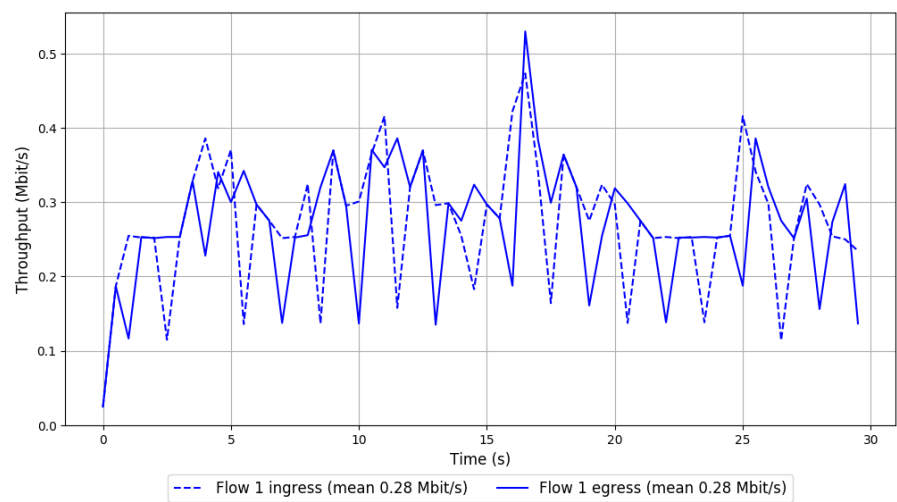
-- Flow 1:

Average throughput: 0.28 Mbit/s

95th percentile per-packet one-way delay: 136.753 ms

Loss rate: 1.00%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-03-13 13:54:42

End at: 2018-03-13 13:55:12

Below is generated by plot.py at 2018-03-13 17:41:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.45 Mbit/s

95th percentile per-packet one-way delay: 137.107 ms

Loss rate: 2.49%

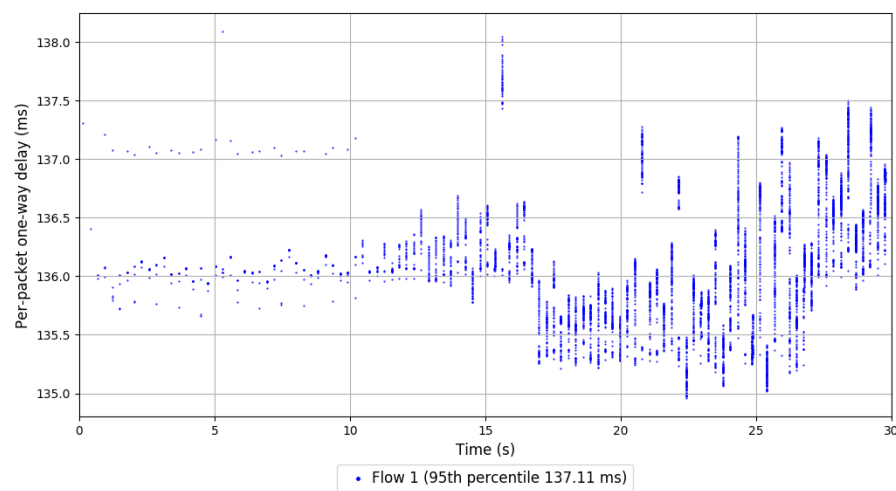
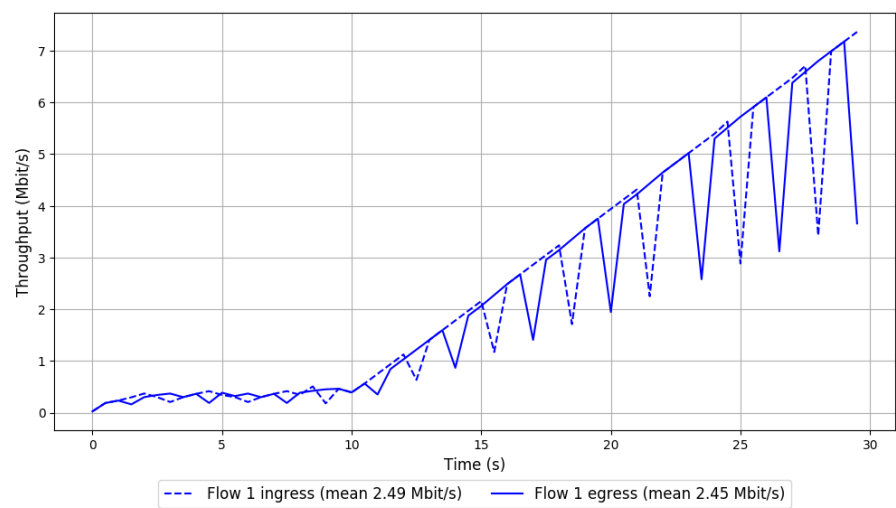
-- Flow 1:

Average throughput: 2.45 Mbit/s

95th percentile per-packet one-way delay: 137.107 ms

Loss rate: 2.49%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-03-13 14:10:12

End at: 2018-03-13 14:10:42

Below is generated by plot.py at 2018-03-13 17:41:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.78 Mbit/s

95th percentile per-packet one-way delay: 138.047 ms

Loss rate: 1.83%

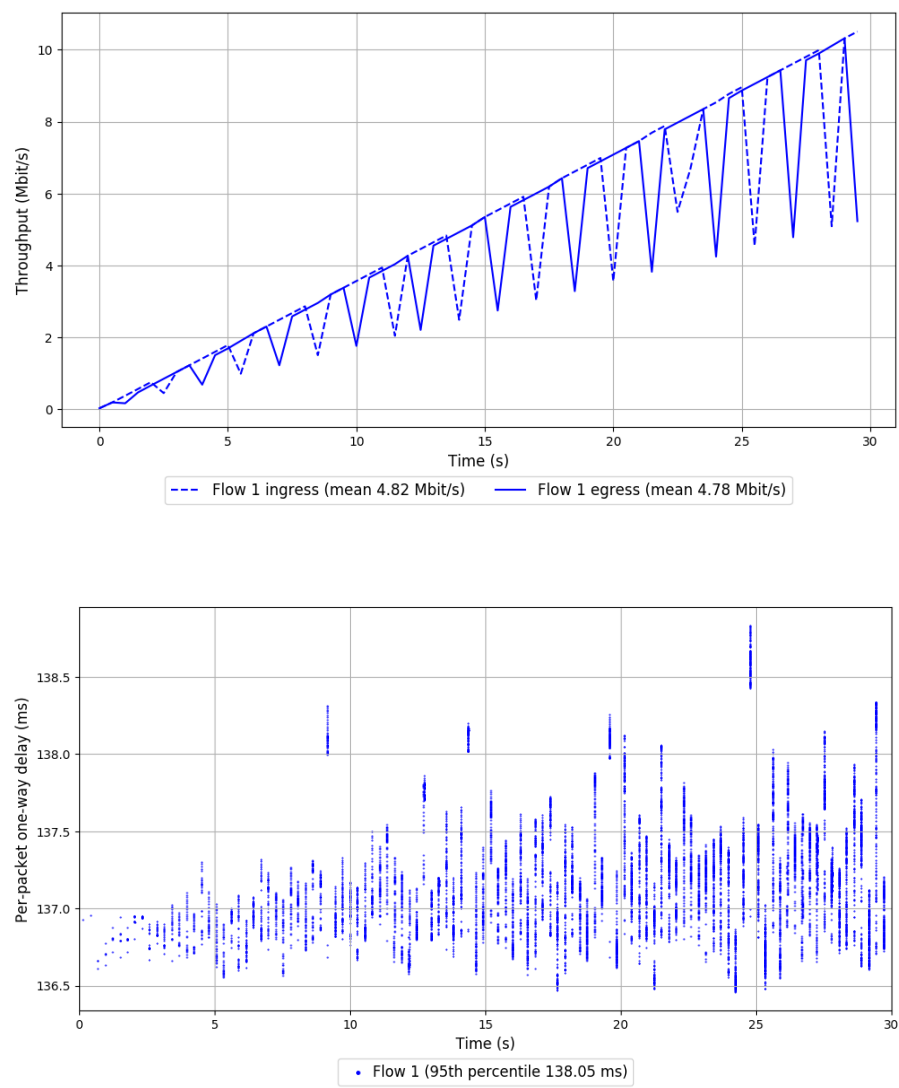
-- Flow 1:

Average throughput: 4.78 Mbit/s

95th percentile per-packet one-way delay: 138.047 ms

Loss rate: 1.83%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-03-13 14:25:28

End at: 2018-03-13 14:25:58

Below is generated by plot.py at 2018-03-13 17:41:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.77 Mbit/s

95th percentile per-packet one-way delay: 137.862 ms

Loss rate: 1.83%

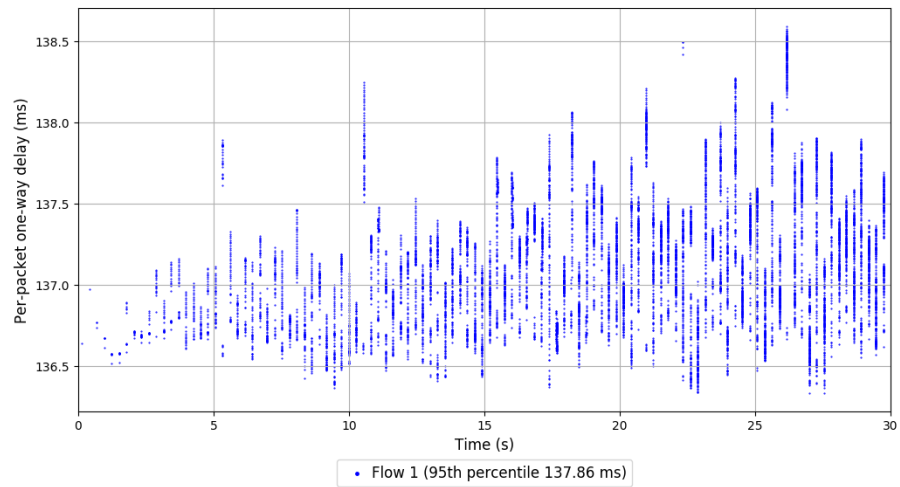
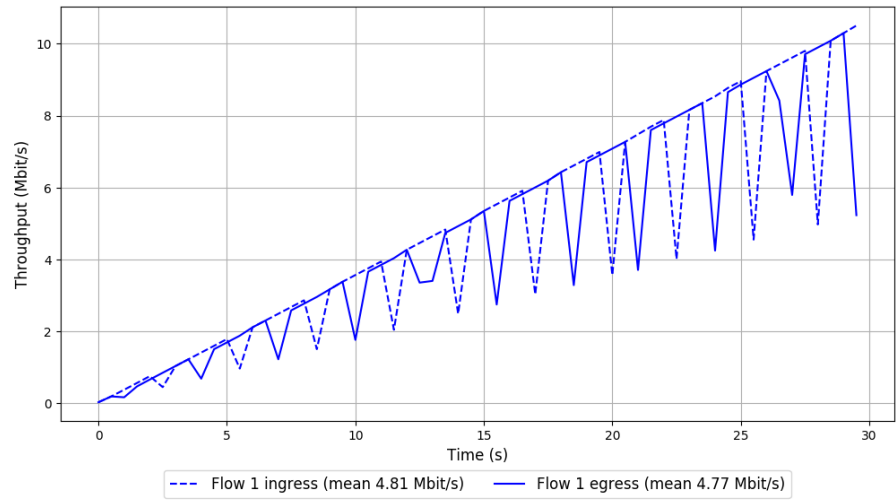
-- Flow 1:

Average throughput: 4.77 Mbit/s

95th percentile per-packet one-way delay: 137.862 ms

Loss rate: 1.83%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-03-13 14:41:04

End at: 2018-03-13 14:41:34

Below is generated by plot.py at 2018-03-13 17:41:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.41 Mbit/s

95th percentile per-packet one-way delay: 137.147 ms

Loss rate: 1.91%

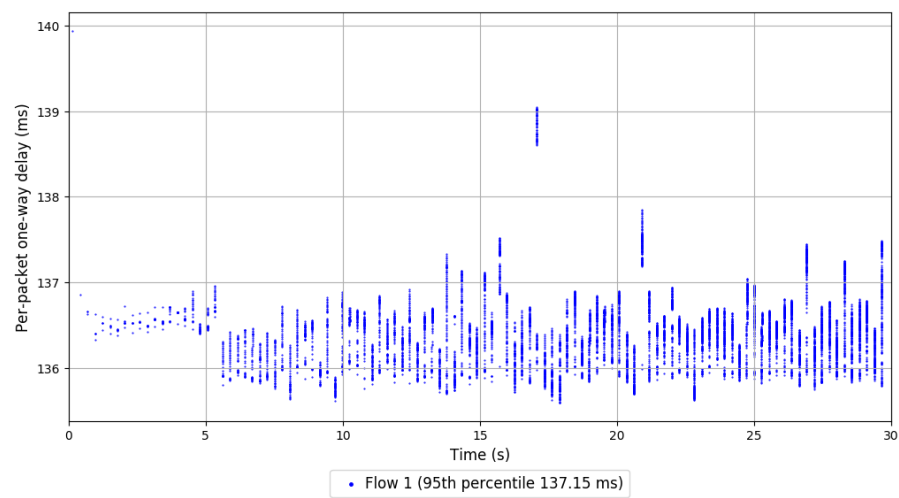
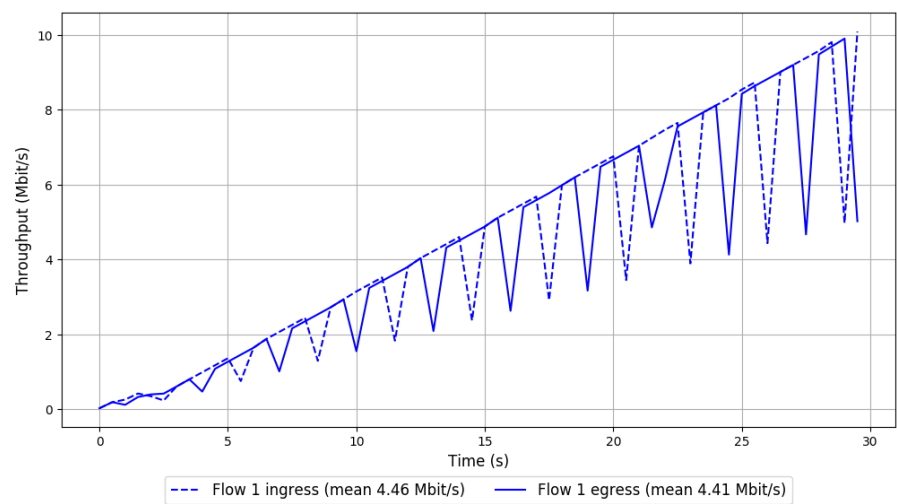
-- Flow 1:

Average throughput: 4.41 Mbit/s

95th percentile per-packet one-way delay: 137.147 ms

Loss rate: 1.91%

Run 10: Report of LEDBAT — Data Link



Run 1: Statistics of PCC

Start at: 2018-03-13 12:18:40

End at: 2018-03-13 12:19:10

Below is generated by plot.py at 2018-03-13 17:50:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 503.12 Mbit/s

95th percentile per-packet one-way delay: 229.098 ms

Loss rate: 2.58%

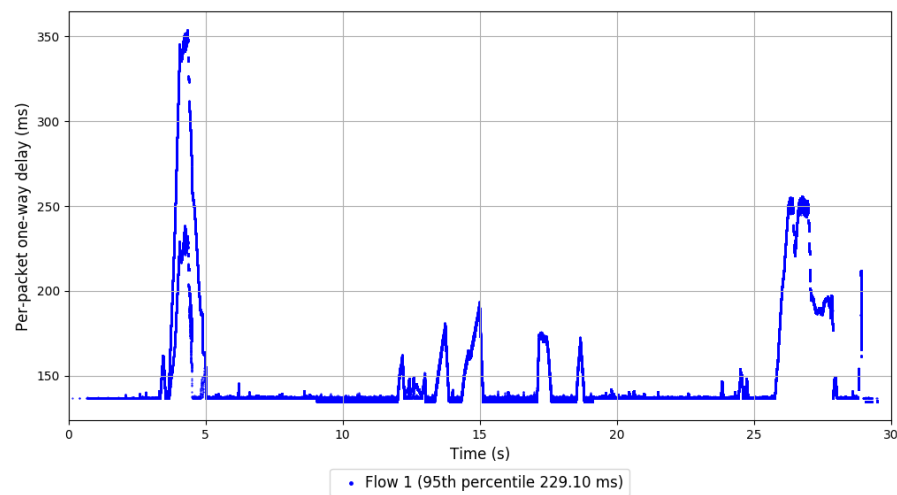
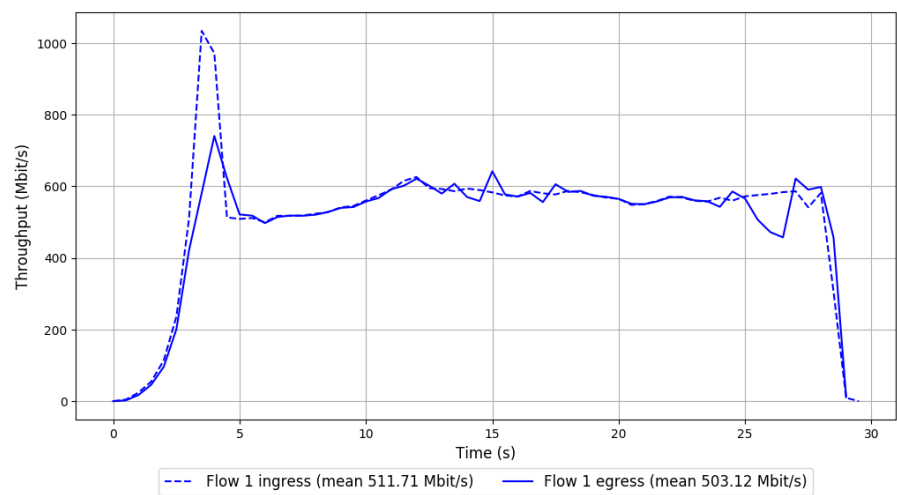
-- Flow 1:

Average throughput: 503.12 Mbit/s

95th percentile per-packet one-way delay: 229.098 ms

Loss rate: 2.58%

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2018-03-13 12:34:23

End at: 2018-03-13 12:34:53

Below is generated by plot.py at 2018-03-13 17:50:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 504.77 Mbit/s

95th percentile per-packet one-way delay: 192.843 ms

Loss rate: 2.15%

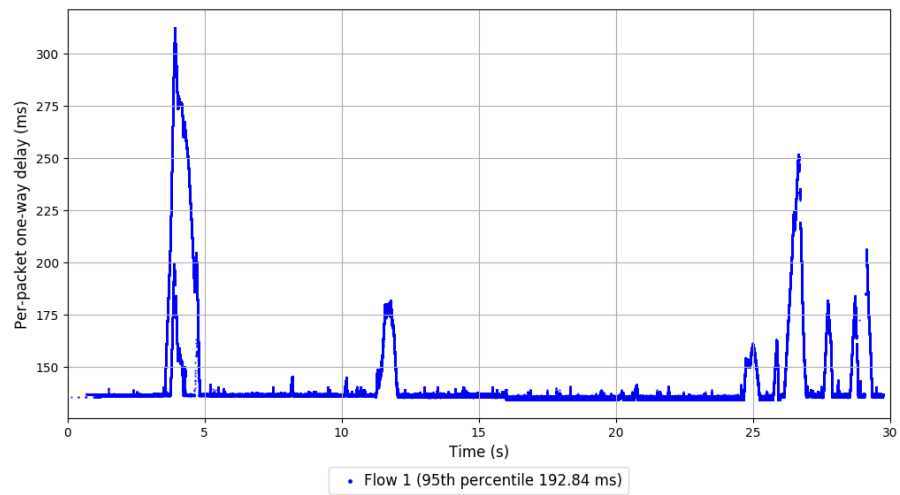
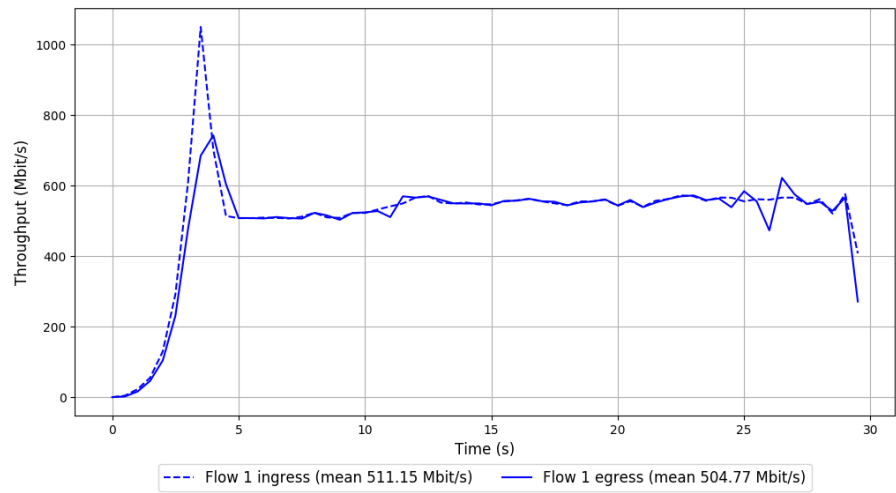
-- Flow 1:

Average throughput: 504.77 Mbit/s

95th percentile per-packet one-way delay: 192.843 ms

Loss rate: 2.15%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-03-13 12:49:41

End at: 2018-03-13 12:50:11

Below is generated by plot.py at 2018-03-13 17:50:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 486.82 Mbit/s

95th percentile per-packet one-way delay: 222.441 ms

Loss rate: 2.17%

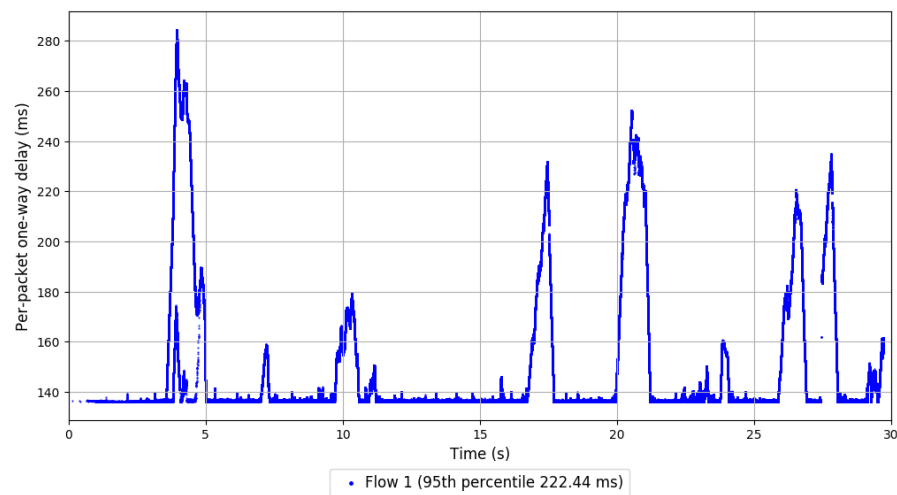
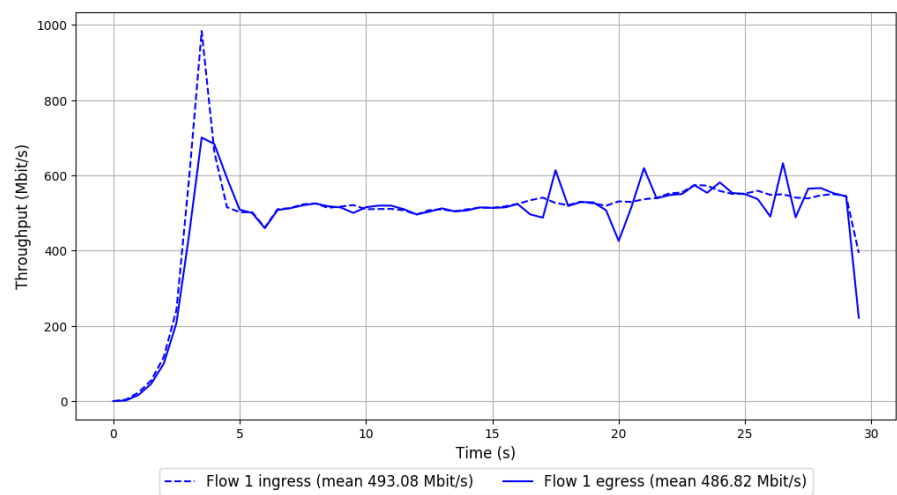
-- Flow 1:

Average throughput: 486.82 Mbit/s

95th percentile per-packet one-way delay: 222.441 ms

Loss rate: 2.17%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-03-13 13:05:20

End at: 2018-03-13 13:05:50

Below is generated by plot.py at 2018-03-13 17:51:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 502.49 Mbit/s

95th percentile per-packet one-way delay: 183.056 ms

Loss rate: 2.38%

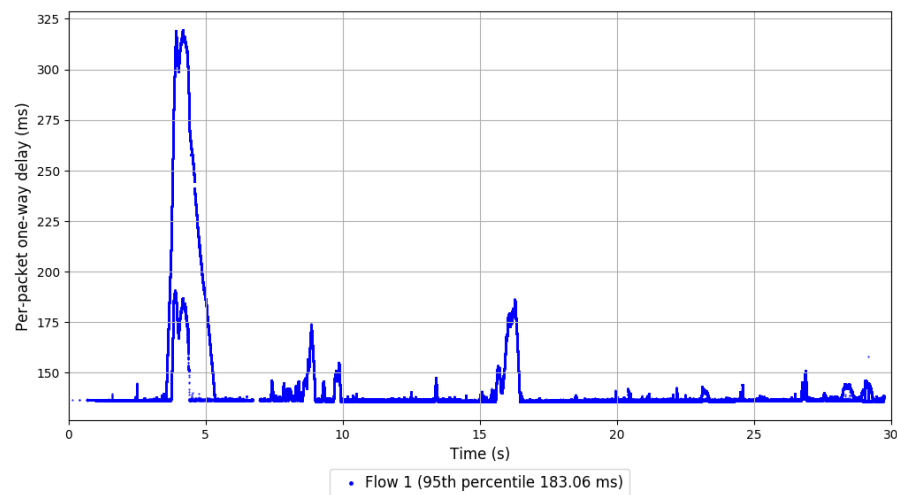
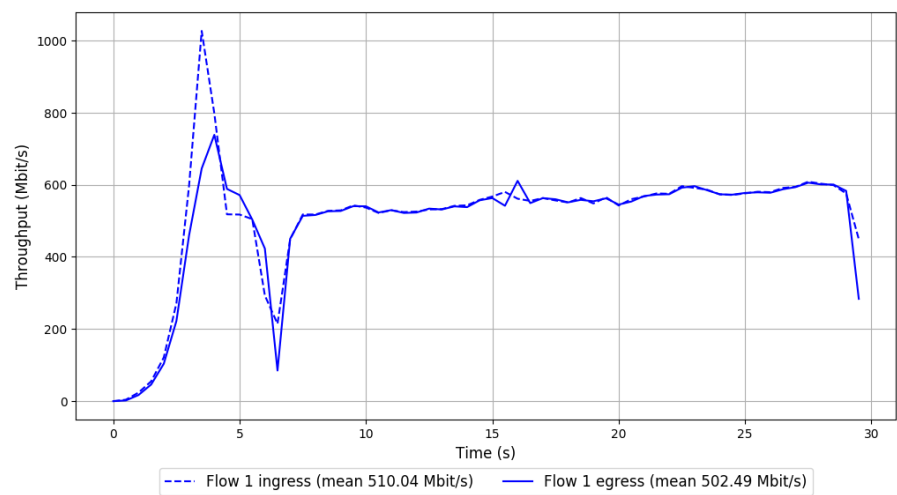
-- Flow 1:

Average throughput: 502.49 Mbit/s

95th percentile per-packet one-way delay: 183.056 ms

Loss rate: 2.38%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-03-13 13:21:14

End at: 2018-03-13 13:21:44

Below is generated by plot.py at 2018-03-13 17:51:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 527.35 Mbit/s

95th percentile per-packet one-way delay: 261.732 ms

Loss rate: 3.04%

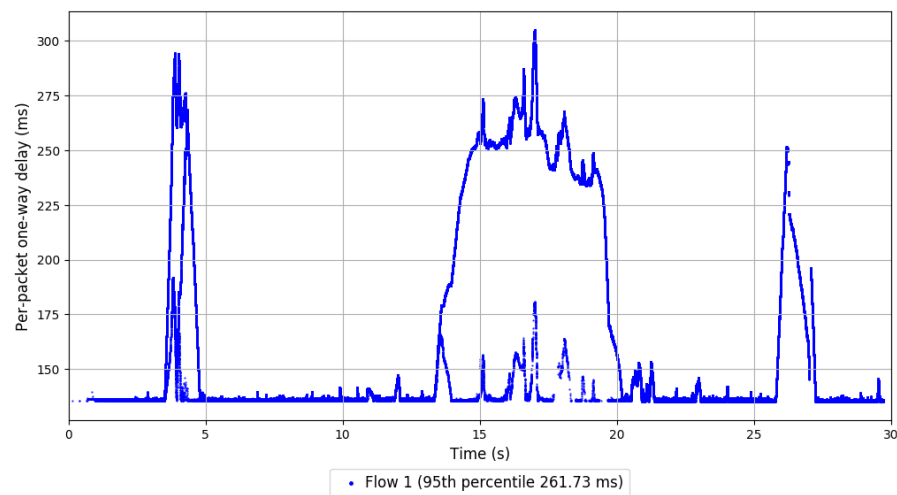
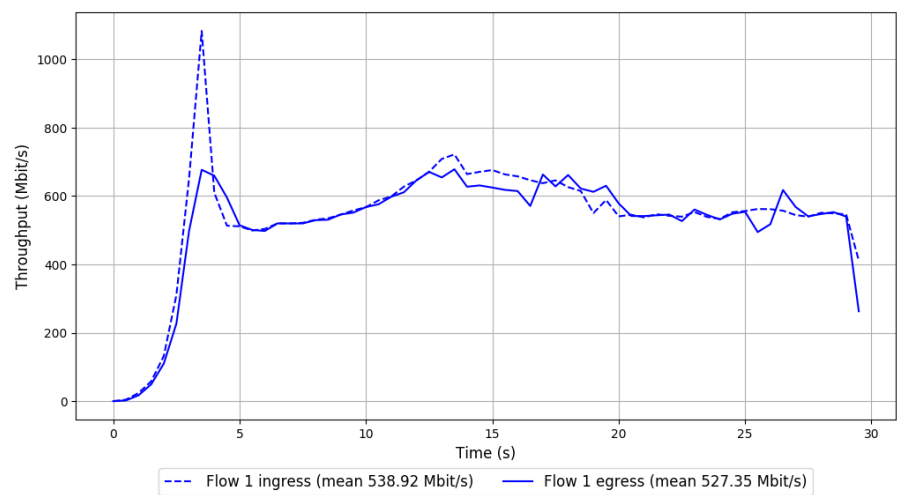
-- Flow 1:

Average throughput: 527.35 Mbit/s

95th percentile per-packet one-way delay: 261.732 ms

Loss rate: 3.04%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-03-13 13:36:54

End at: 2018-03-13 13:37:24

Below is generated by plot.py at 2018-03-13 17:51:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 366.97 Mbit/s

95th percentile per-packet one-way delay: 232.332 ms

Loss rate: 2.20%

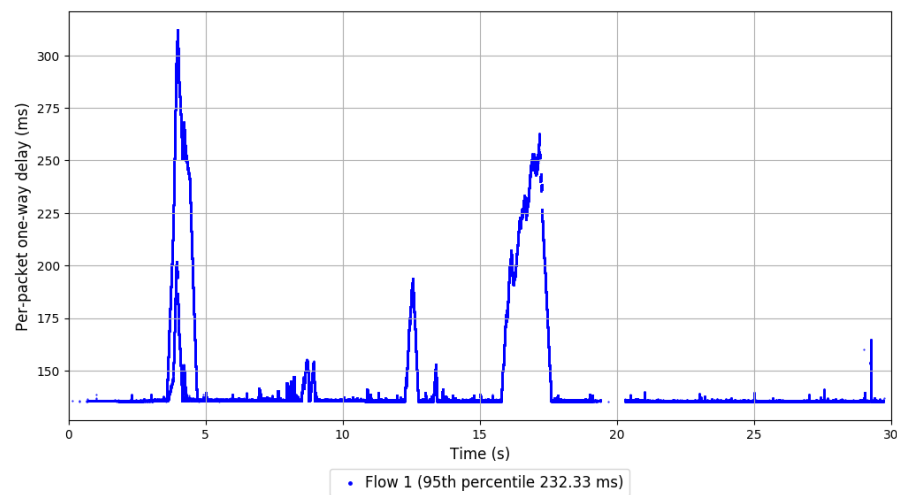
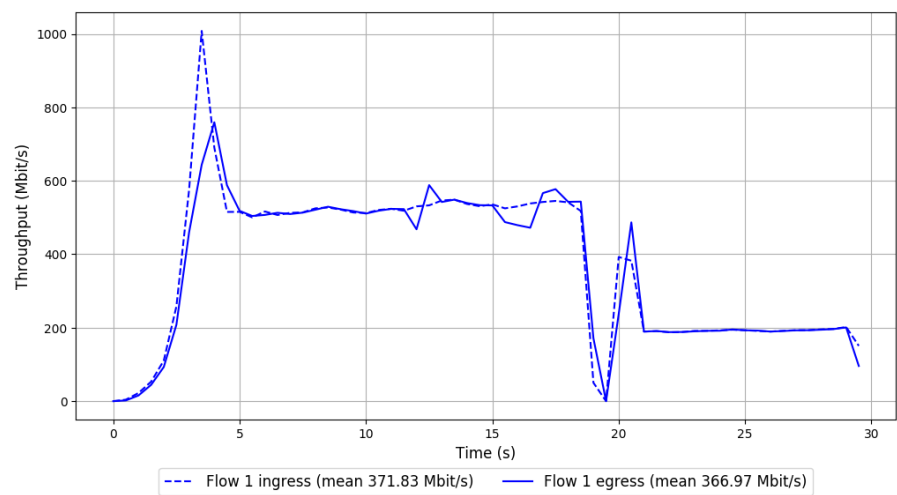
-- Flow 1:

Average throughput: 366.97 Mbit/s

95th percentile per-packet one-way delay: 232.332 ms

Loss rate: 2.20%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-03-13 13:52:09

End at: 2018-03-13 13:52:39

Below is generated by plot.py at 2018-03-13 17:51:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 378.52 Mbit/s

95th percentile per-packet one-way delay: 237.291 ms

Loss rate: 2.55%

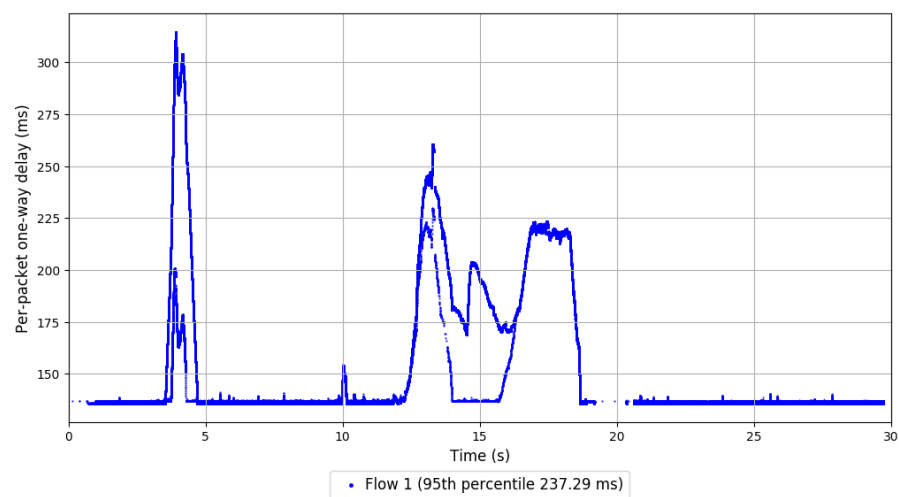
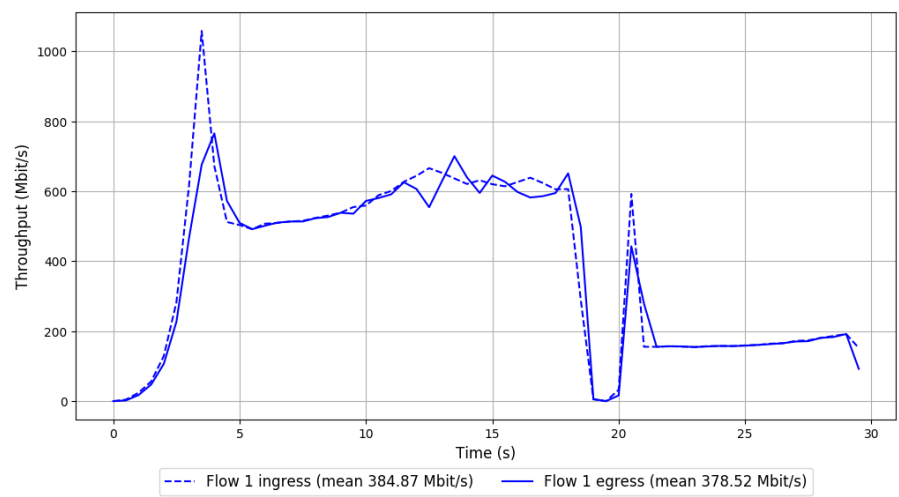
-- Flow 1:

Average throughput: 378.52 Mbit/s

95th percentile per-packet one-way delay: 237.291 ms

Loss rate: 2.55%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-03-13 14:07:35

End at: 2018-03-13 14:08:05

Below is generated by plot.py at 2018-03-13 17:51:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 456.56 Mbit/s

95th percentile per-packet one-way delay: 216.754 ms

Loss rate: 2.23%

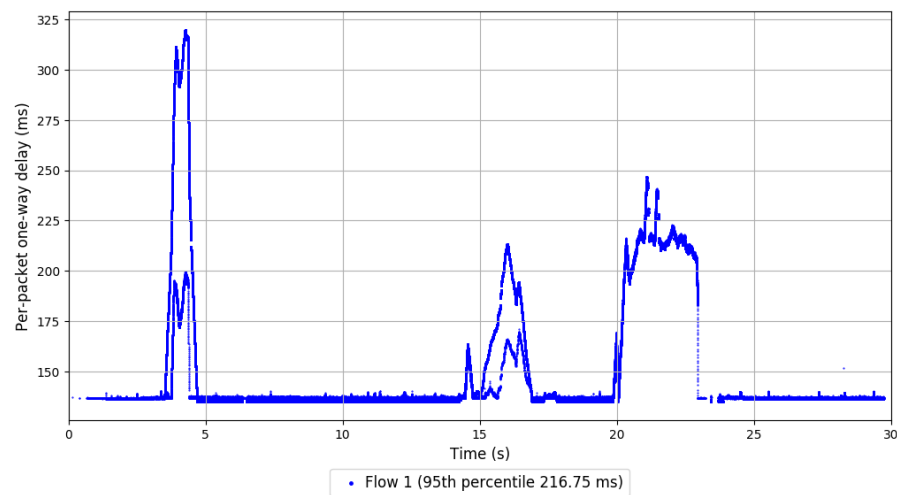
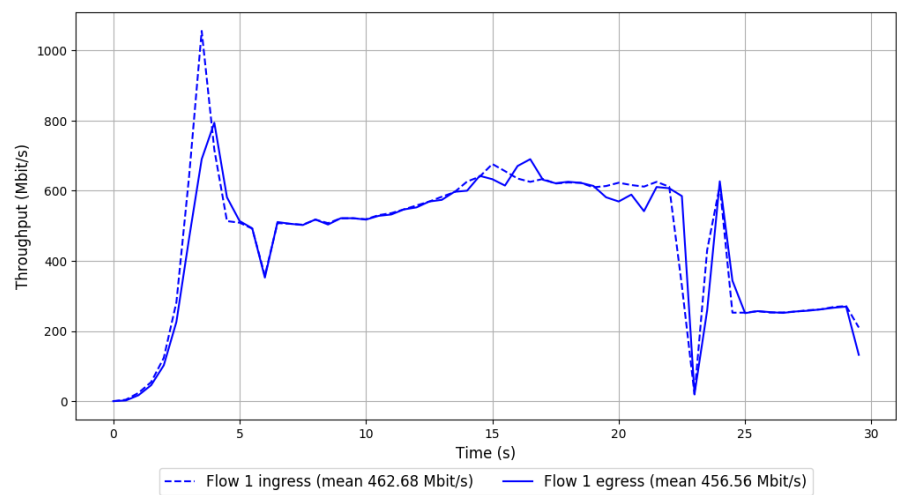
-- Flow 1:

Average throughput: 456.56 Mbit/s

95th percentile per-packet one-way delay: 216.754 ms

Loss rate: 2.23%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2018-03-13 14:22:48

End at: 2018-03-13 14:23:18

Below is generated by plot.py at 2018-03-13 18:01:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 531.32 Mbit/s

95th percentile per-packet one-way delay: 202.876 ms

Loss rate: 2.07%

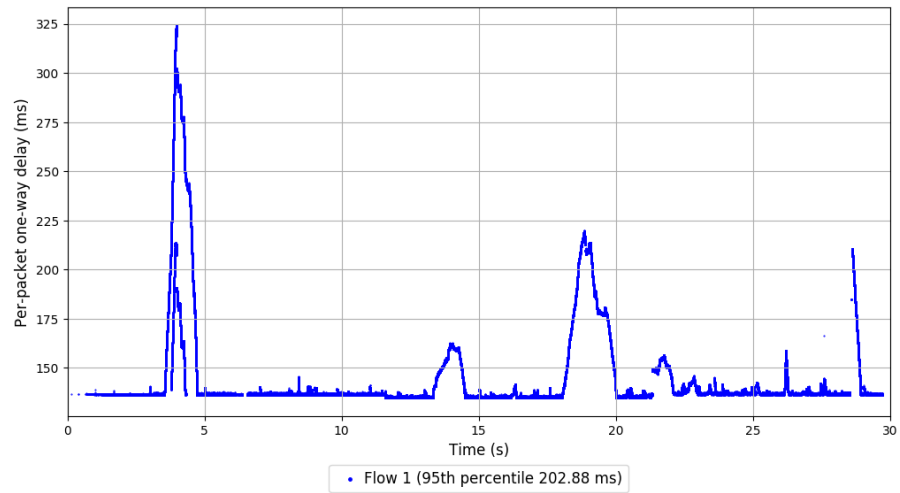
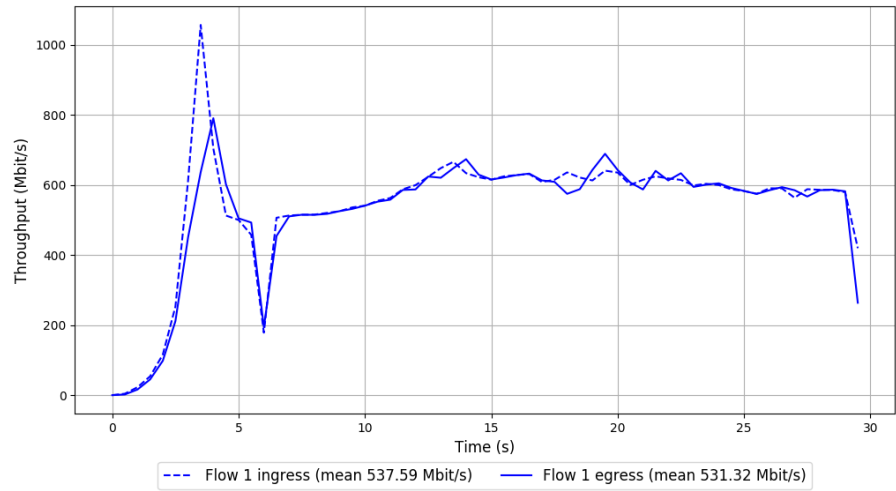
-- Flow 1:

Average throughput: 531.32 Mbit/s

95th percentile per-packet one-way delay: 202.876 ms

Loss rate: 2.07%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2018-03-13 14:38:24

End at: 2018-03-13 14:38:54

Below is generated by plot.py at 2018-03-13 18:01:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 530.06 Mbit/s

95th percentile per-packet one-way delay: 221.040 ms

Loss rate: 3.10%

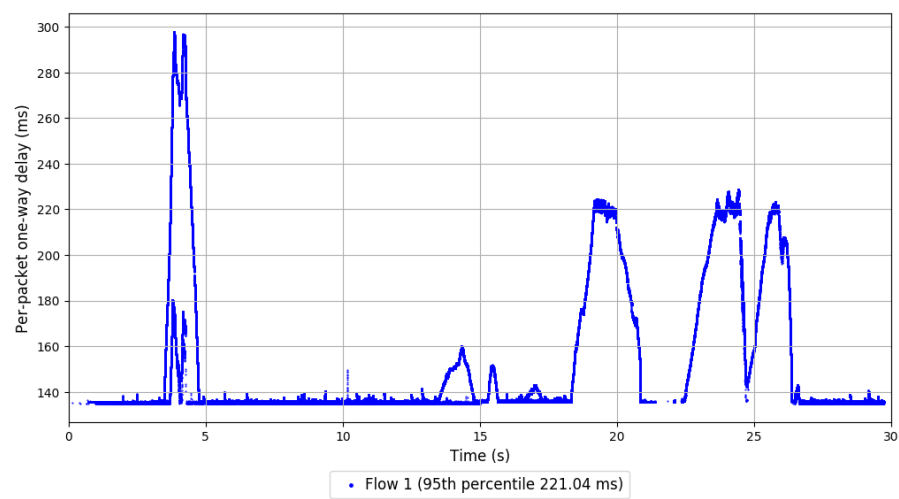
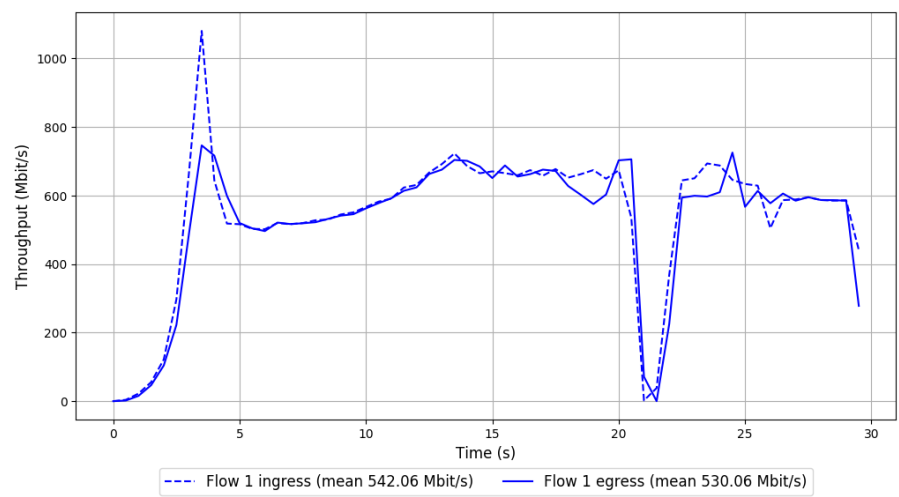
-- Flow 1:

Average throughput: 530.06 Mbit/s

95th percentile per-packet one-way delay: 221.040 ms

Loss rate: 3.10%

Run 10: Report of PCC — Data Link

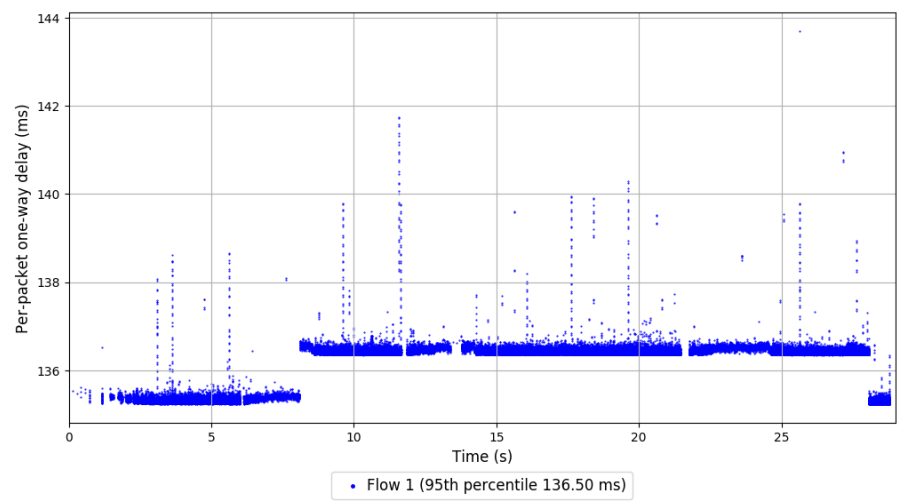
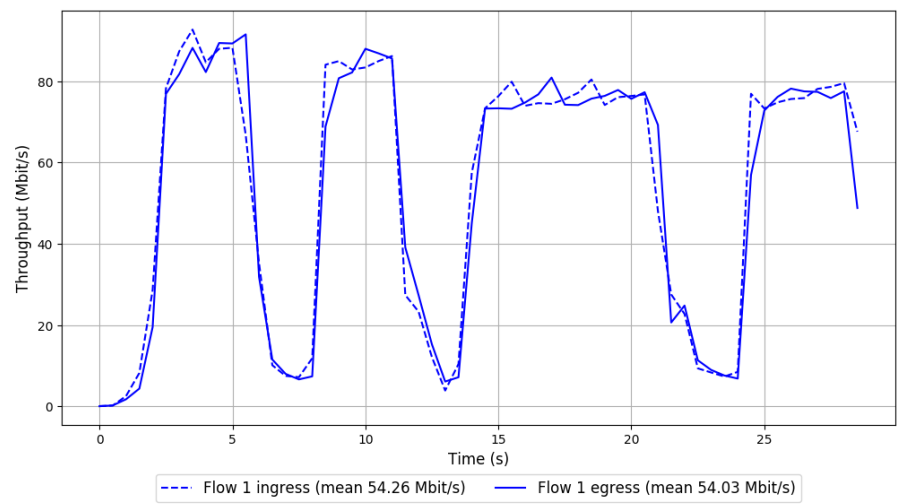


```
Run 1: Statistics of QUIC Cubic

Start at: 2018-03-13 12:27:40
End at: 2018-03-13 12:28:10

# Below is generated by plot.py at 2018-03-13 18:01:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 54.03 Mbit/s
95th percentile per-packet one-way delay: 136.504 ms
Loss rate: 1.36%
-- Flow 1:
Average throughput: 54.03 Mbit/s
95th percentile per-packet one-way delay: 136.504 ms
Loss rate: 1.36%
```

Run 1: Report of QUIC Cubic — Data Link

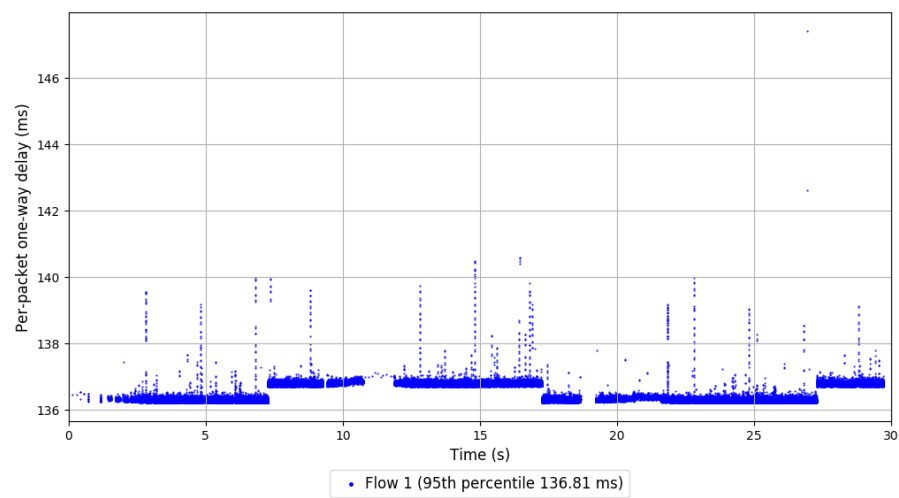
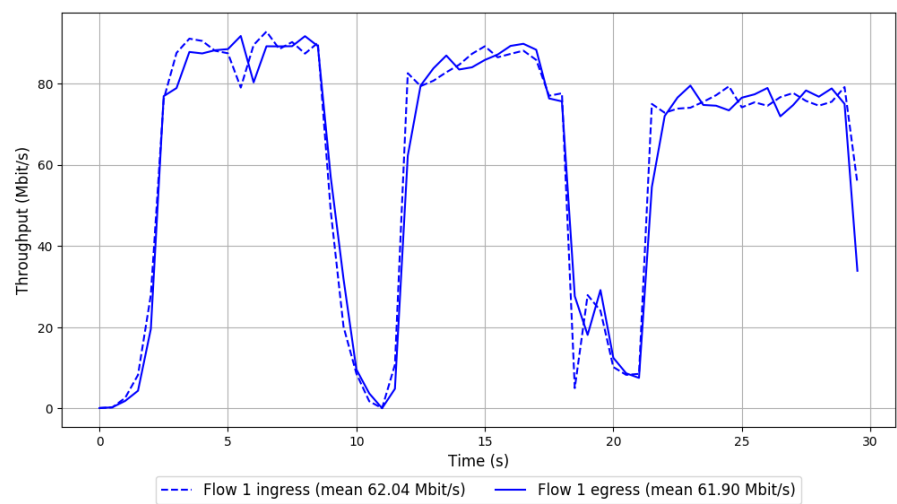


```
Run 2: Statistics of QUIC Cubic

Start at: 2018-03-13 12:43:12
End at: 2018-03-13 12:43:42

# Below is generated by plot.py at 2018-03-13 18:01:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 61.90 Mbit/s
95th percentile per-packet one-way delay: 136.815 ms
Loss rate: 1.13%
-- Flow 1:
Average throughput: 61.90 Mbit/s
95th percentile per-packet one-way delay: 136.815 ms
Loss rate: 1.13%
```

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-03-13 12:58:45

End at: 2018-03-13 12:59:15

Below is generated by plot.py at 2018-03-13 18:01:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.80 Mbit/s

95th percentile per-packet one-way delay: 135.574 ms

Loss rate: 1.28%

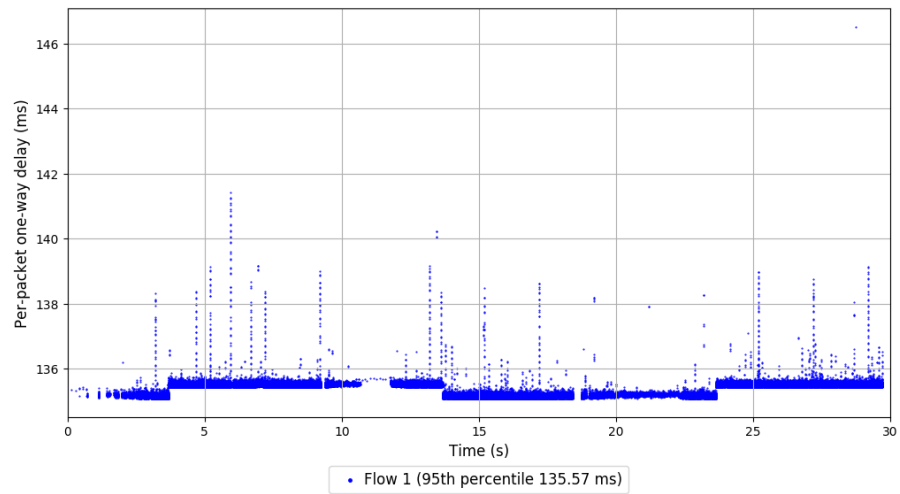
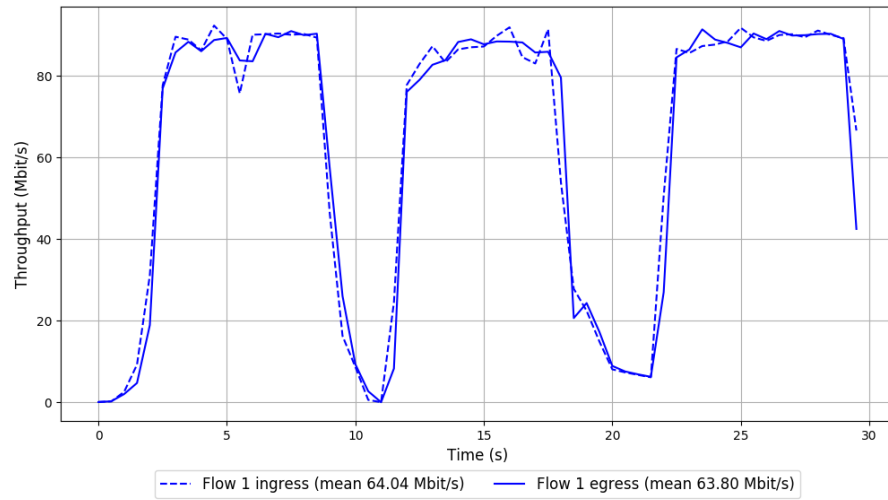
-- Flow 1:

Average throughput: 63.80 Mbit/s

95th percentile per-packet one-way delay: 135.574 ms

Loss rate: 1.28%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-03-13 13:14:29

End at: 2018-03-13 13:14:59

Below is generated by plot.py at 2018-03-13 18:01:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.86 Mbit/s

95th percentile per-packet one-way delay: 135.591 ms

Loss rate: 1.28%

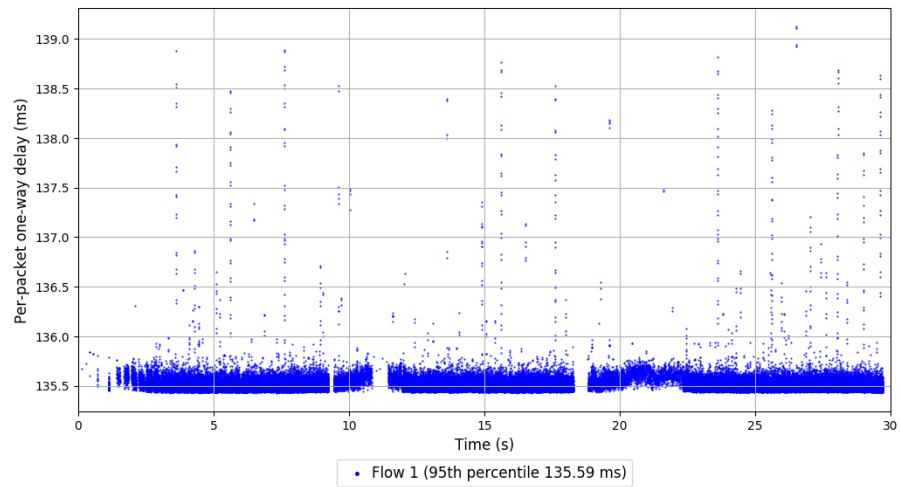
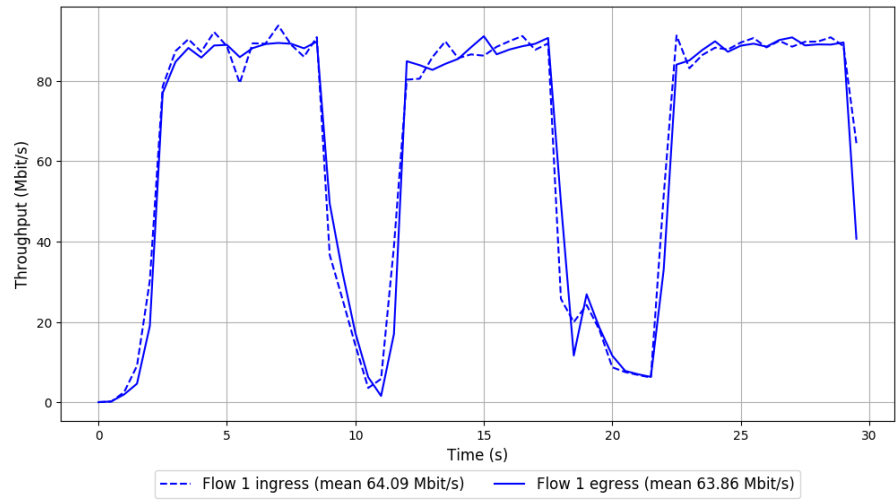
-- Flow 1:

Average throughput: 63.86 Mbit/s

95th percentile per-packet one-way delay: 135.591 ms

Loss rate: 1.28%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-03-13 13:30:07

End at: 2018-03-13 13:30:37

Below is generated by plot.py at 2018-03-13 18:01:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 66.59 Mbit/s

95th percentile per-packet one-way delay: 136.693 ms

Loss rate: 1.21%

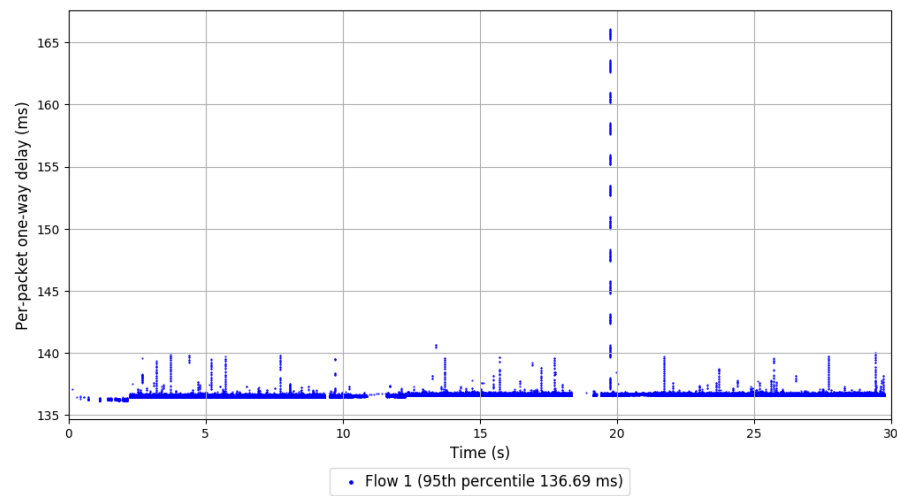
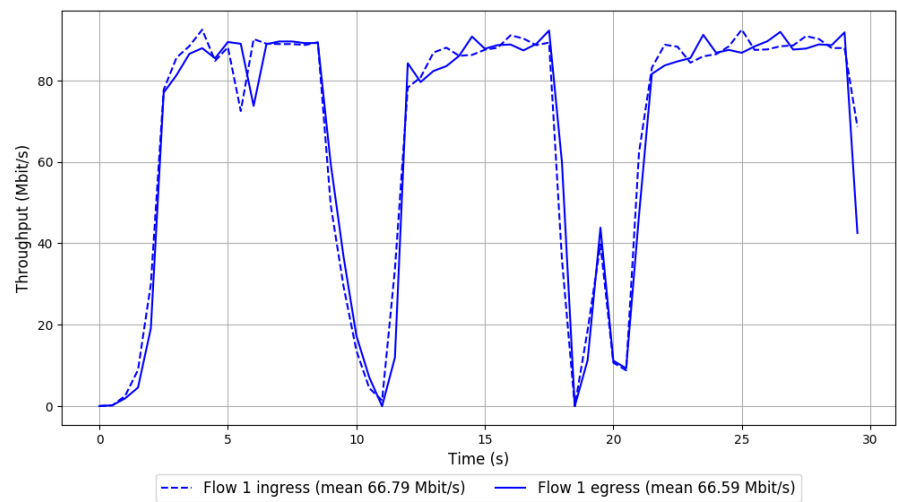
-- Flow 1:

Average throughput: 66.59 Mbit/s

95th percentile per-packet one-way delay: 136.693 ms

Loss rate: 1.21%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-03-13 13:45:46

End at: 2018-03-13 13:46:16

Below is generated by plot.py at 2018-03-13 18:01:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 60.84 Mbit/s

95th percentile per-packet one-way delay: 136.905 ms

Loss rate: 1.15%

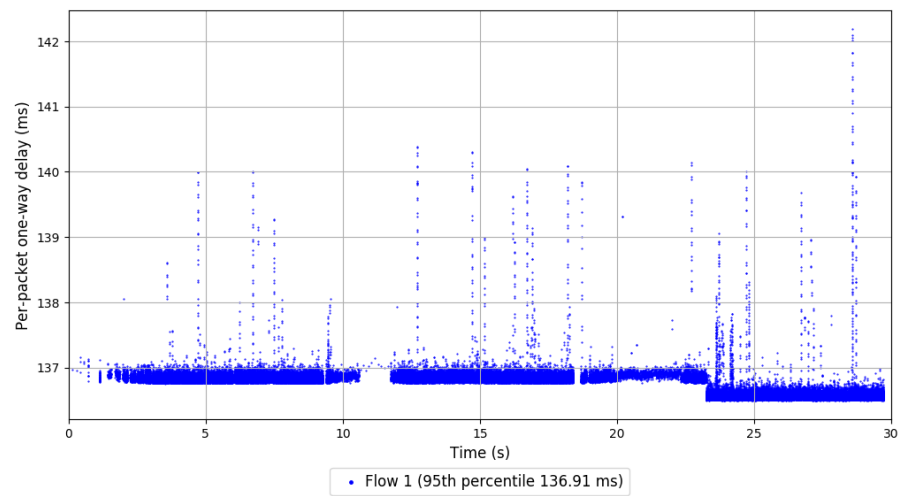
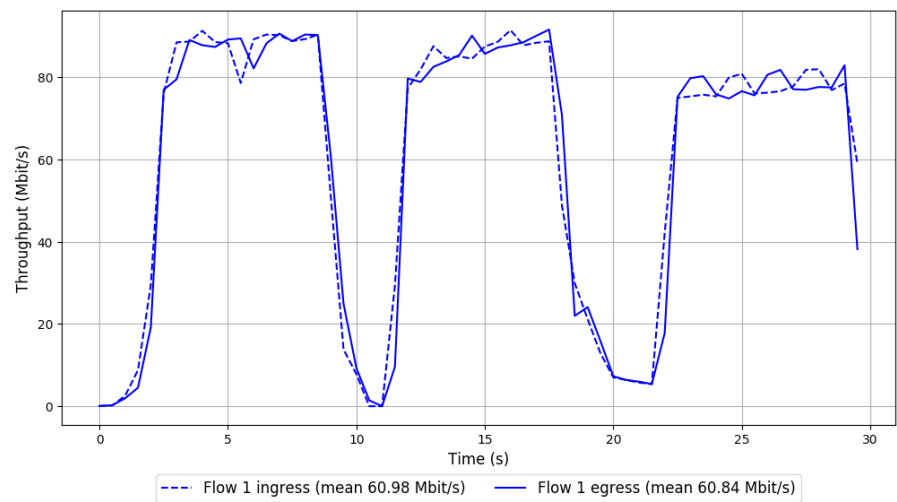
-- Flow 1:

Average throughput: 60.84 Mbit/s

95th percentile per-packet one-way delay: 136.905 ms

Loss rate: 1.15%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-03-13 14:01:07

End at: 2018-03-13 14:01:37

Below is generated by plot.py at 2018-03-13 18:01:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.72 Mbit/s

95th percentile per-packet one-way delay: 136.785 ms

Loss rate: 1.26%

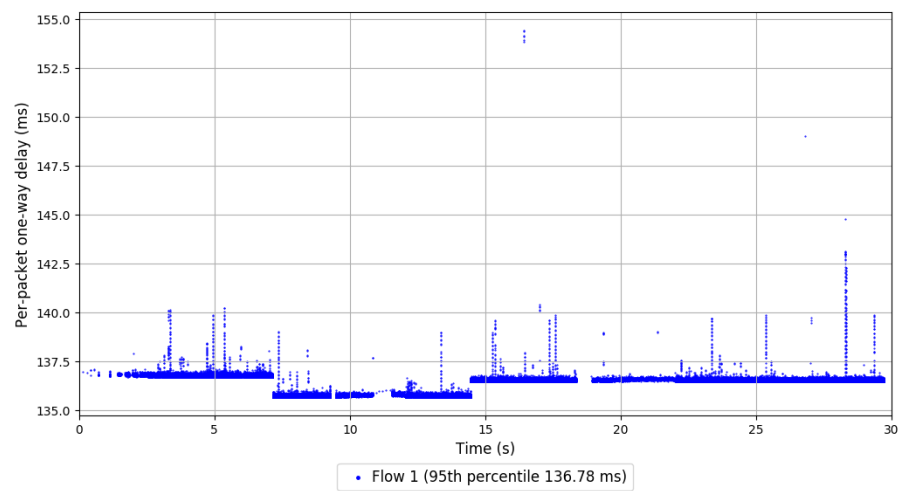
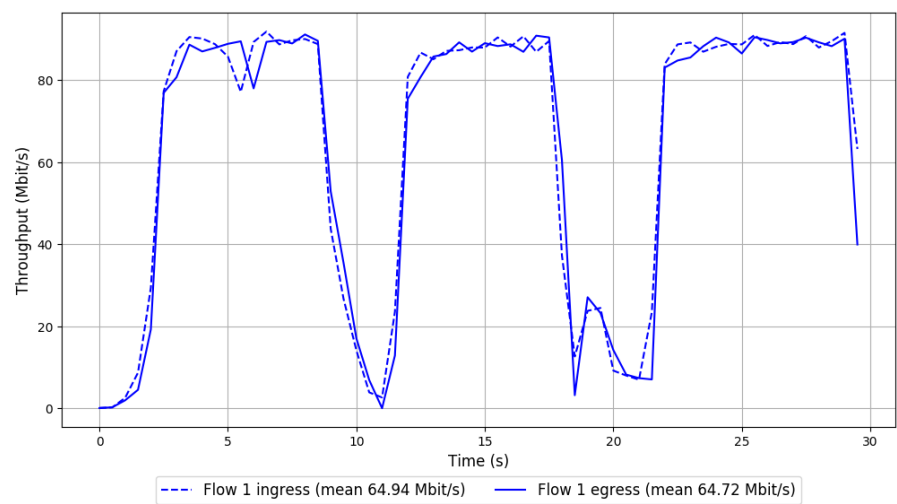
-- Flow 1:

Average throughput: 64.72 Mbit/s

95th percentile per-packet one-way delay: 136.785 ms

Loss rate: 1.26%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-03-13 14:16:22

End at: 2018-03-13 14:16:52

Below is generated by plot.py at 2018-03-13 18:01:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.36 Mbit/s

95th percentile per-packet one-way delay: 136.796 ms

Loss rate: 1.10%

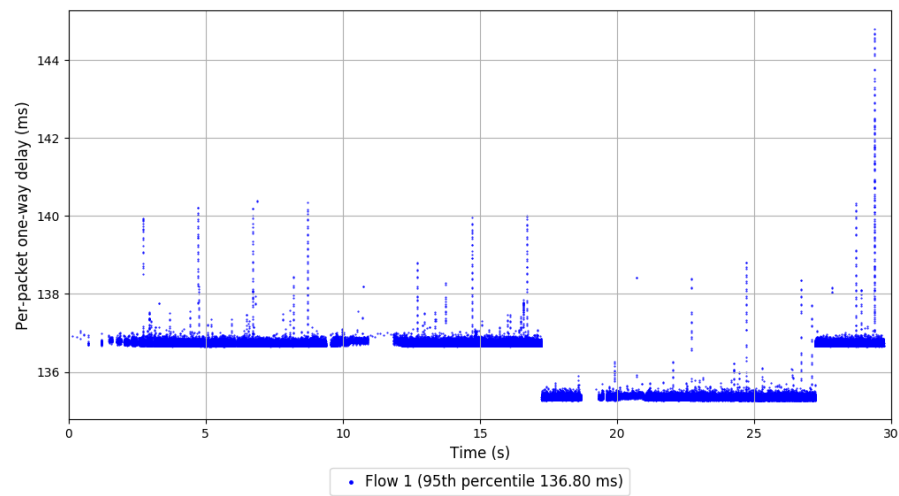
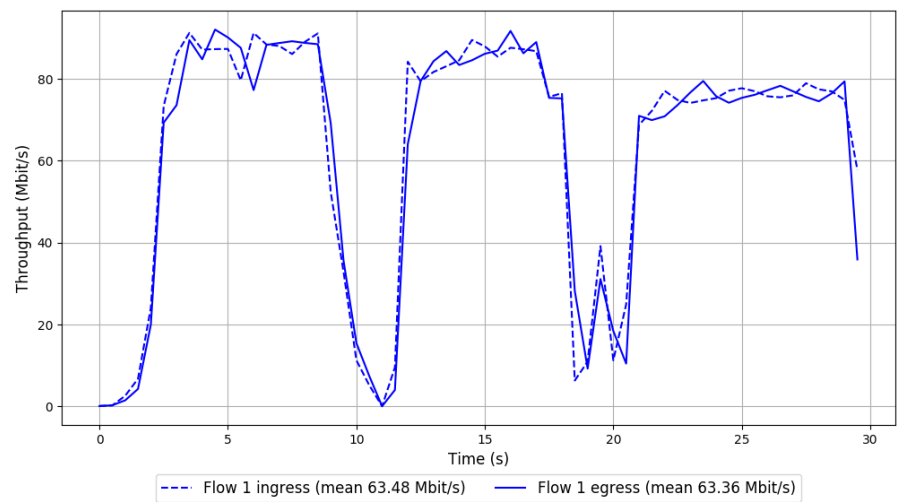
-- Flow 1:

Average throughput: 63.36 Mbit/s

95th percentile per-packet one-way delay: 136.796 ms

Loss rate: 1.10%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-03-13 14:31:46

End at: 2018-03-13 14:32:16

Below is generated by plot.py at 2018-03-13 18:01:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.97 Mbit/s

95th percentile per-packet one-way delay: 136.781 ms

Loss rate: 1.19%

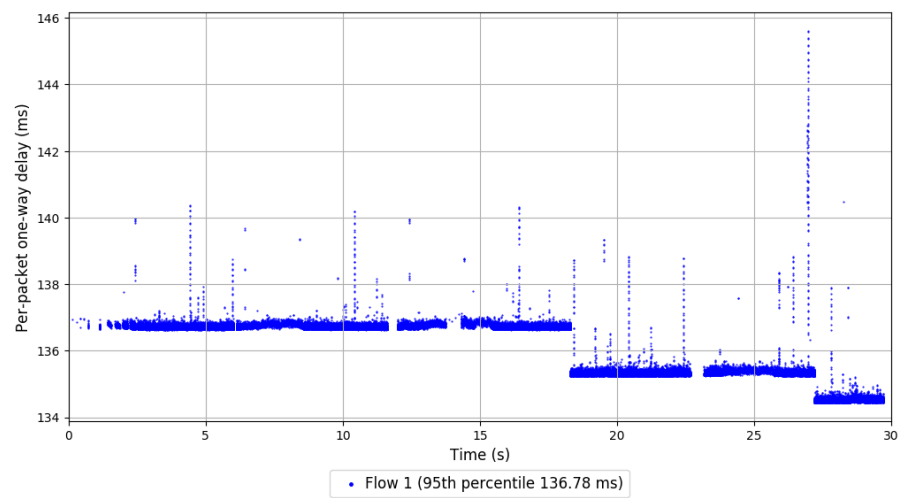
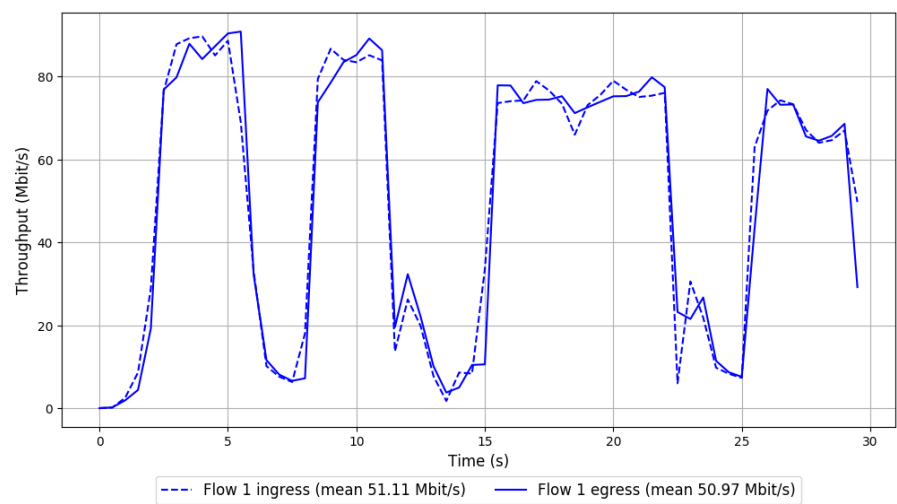
-- Flow 1:

Average throughput: 50.97 Mbit/s

95th percentile per-packet one-way delay: 136.781 ms

Loss rate: 1.19%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-03-13 14:47:24

End at: 2018-03-13 14:47:54

Below is generated by plot.py at 2018-03-13 18:01:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 52.82 Mbit/s

95th percentile per-packet one-way delay: 136.739 ms

Loss rate: 1.01%

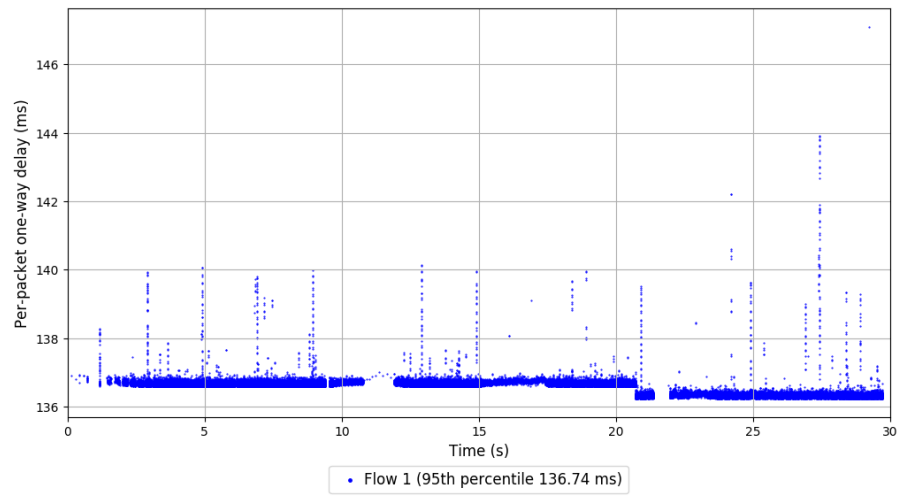
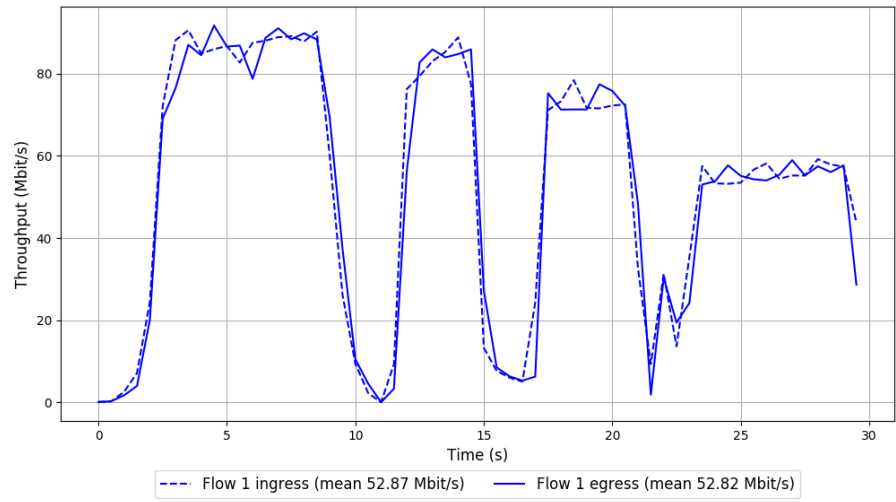
-- Flow 1:

Average throughput: 52.82 Mbit/s

95th percentile per-packet one-way delay: 136.739 ms

Loss rate: 1.01%

Run 10: Report of QUIC Cubic — Data Link

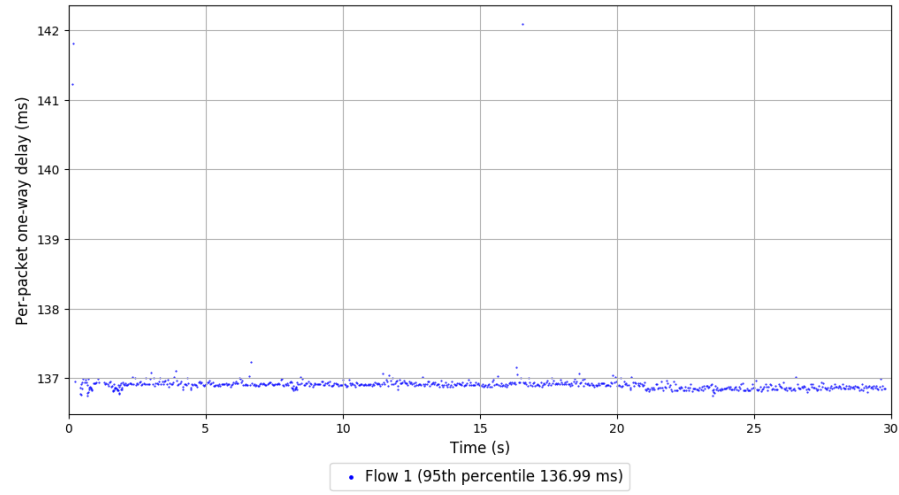
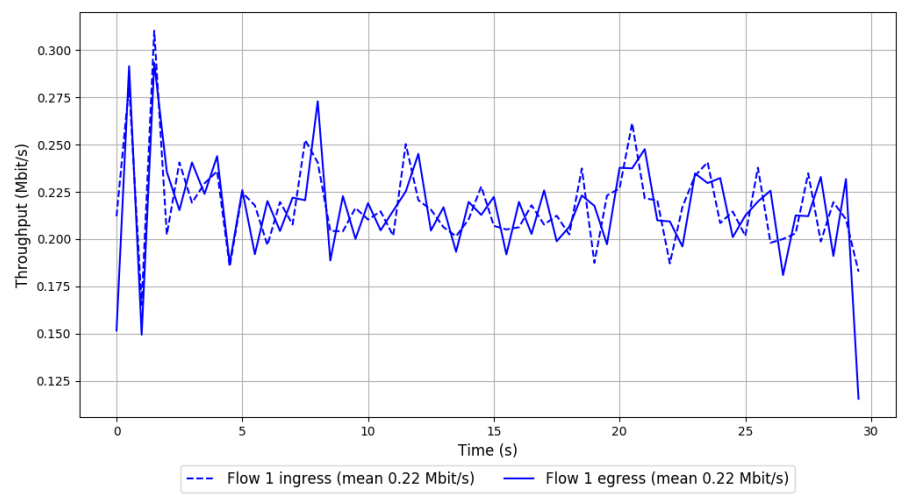


```
Run 1: Statistics of SCReAM

Start at: 2018-03-13 12:17:58
End at: 2018-03-13 12:18:28

# Below is generated by plot.py at 2018-03-13 18:01:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.994 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.994 ms
Loss rate: 0.89%
```

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2018-03-13 12:33:41

End at: 2018-03-13 12:34:11

Below is generated by plot.py at 2018-03-13 18:01:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 135.546 ms

Loss rate: 0.89%

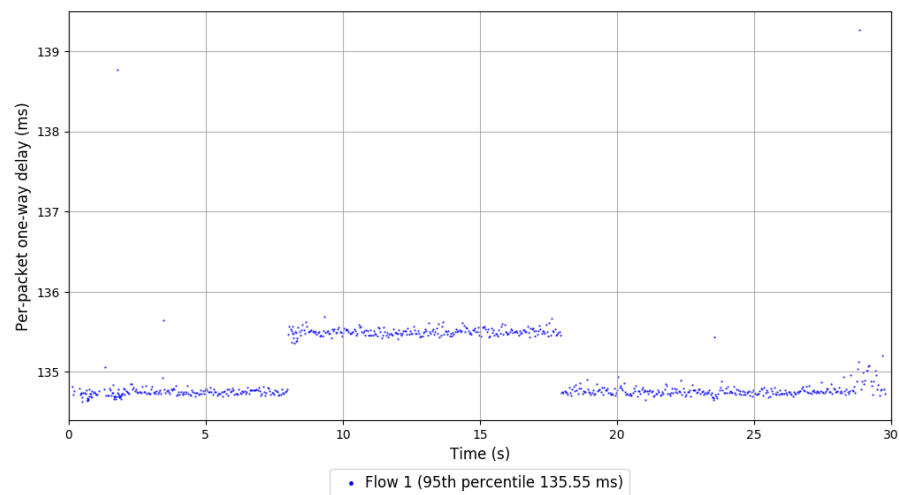
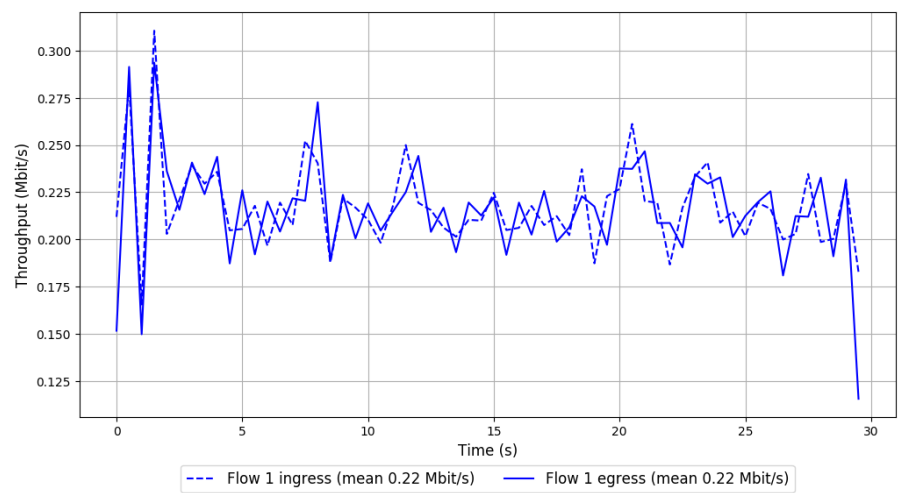
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 135.546 ms

Loss rate: 0.89%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-03-13 12:48:59

End at: 2018-03-13 12:49:29

Below is generated by plot.py at 2018-03-13 18:01:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 137.042 ms

Loss rate: 0.89%

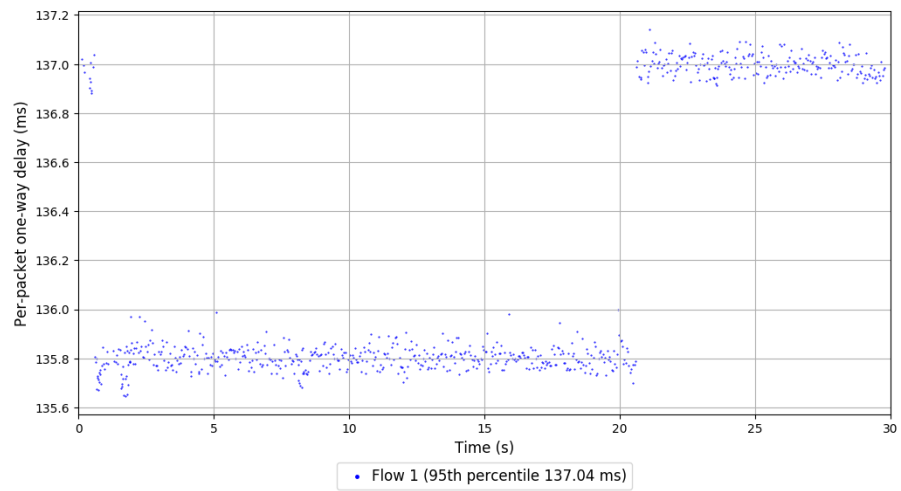
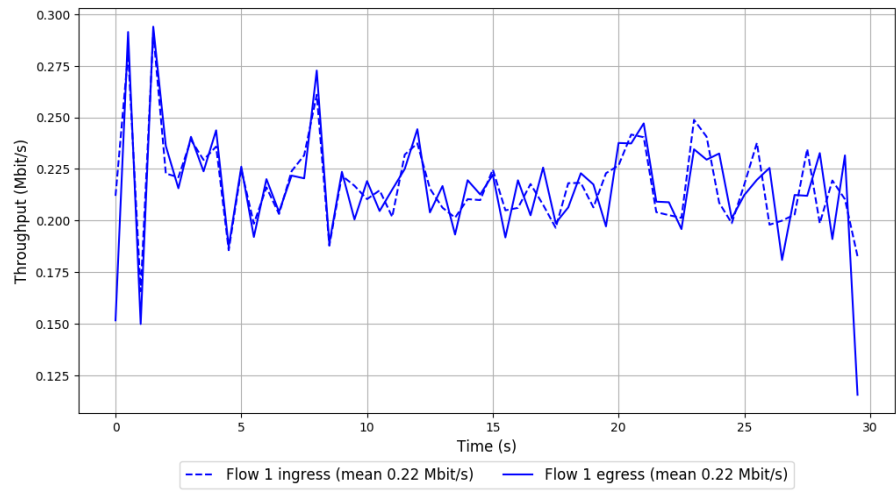
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 137.042 ms

Loss rate: 0.89%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2018-03-13 13:04:38

End at: 2018-03-13 13:05:08

Below is generated by plot.py at 2018-03-13 18:01:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.205 ms

Loss rate: 0.89%

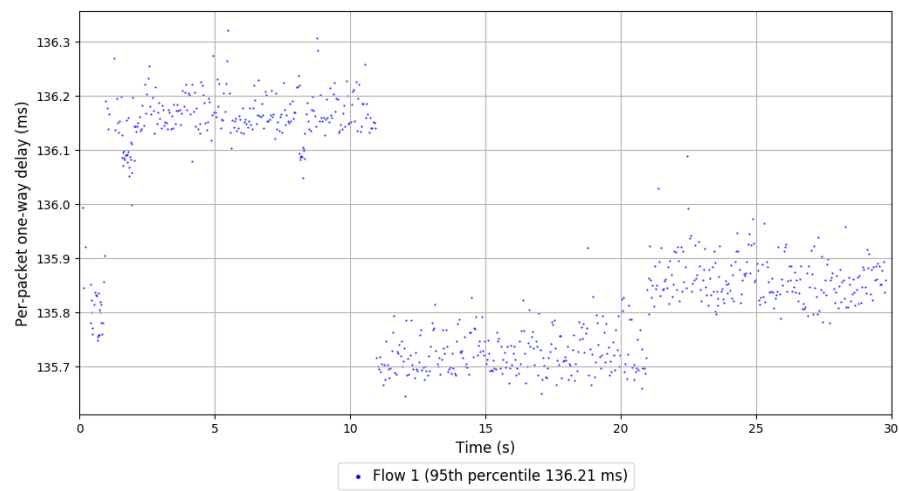
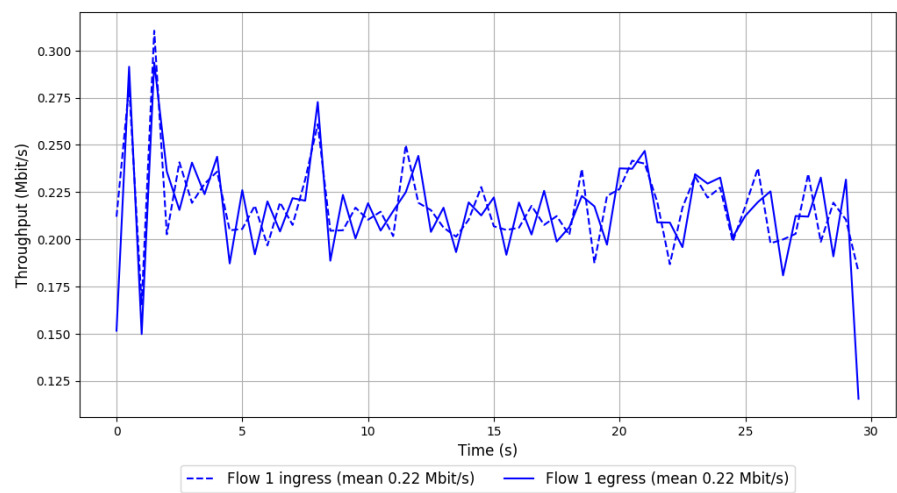
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.205 ms

Loss rate: 0.89%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-03-13 13:20:32

End at: 2018-03-13 13:21:02

Below is generated by plot.py at 2018-03-13 18:01:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 135.799 ms

Loss rate: 0.89%

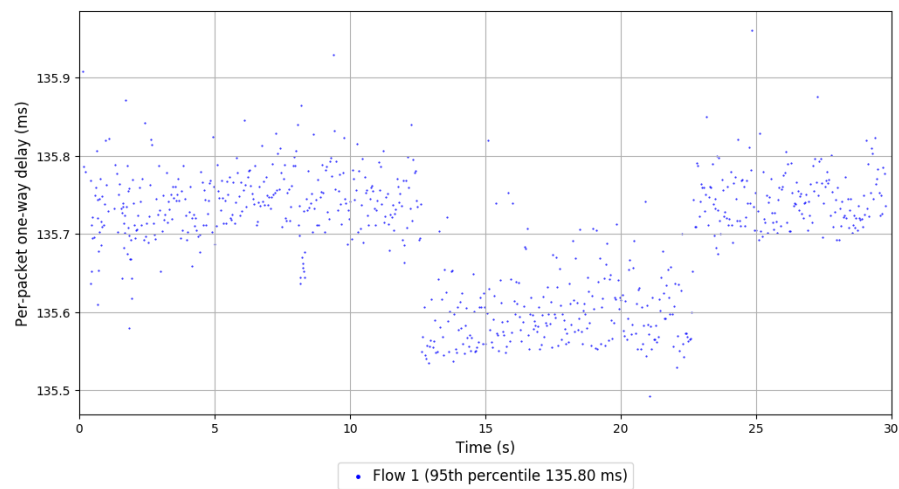
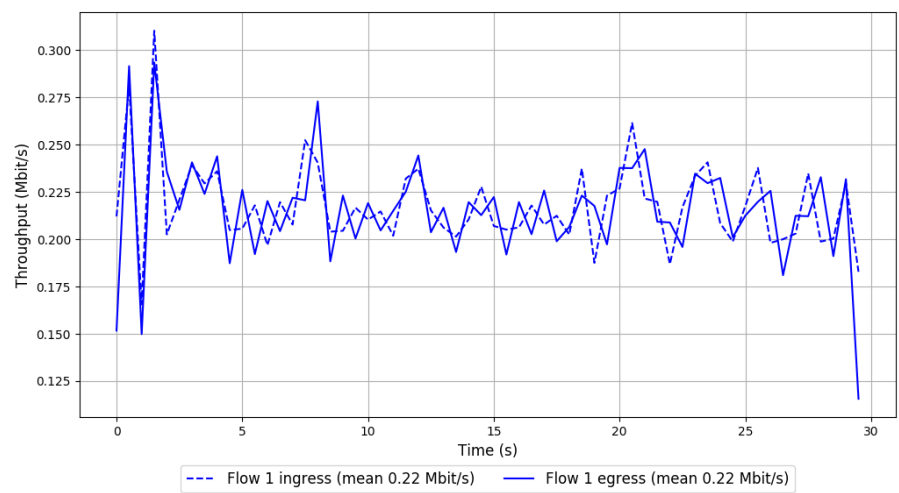
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 135.799 ms

Loss rate: 0.89%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-03-13 13:36:12

End at: 2018-03-13 13:36:42

Below is generated by plot.py at 2018-03-13 18:01:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 137.004 ms

Loss rate: 0.89%

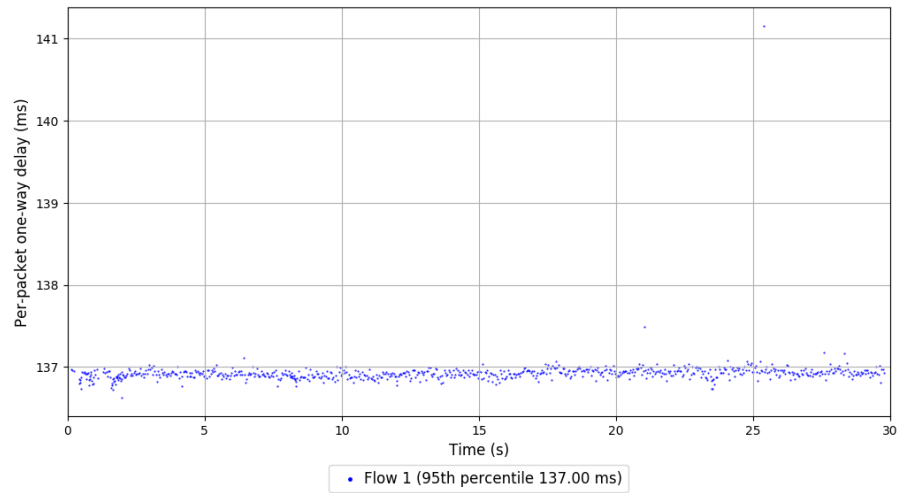
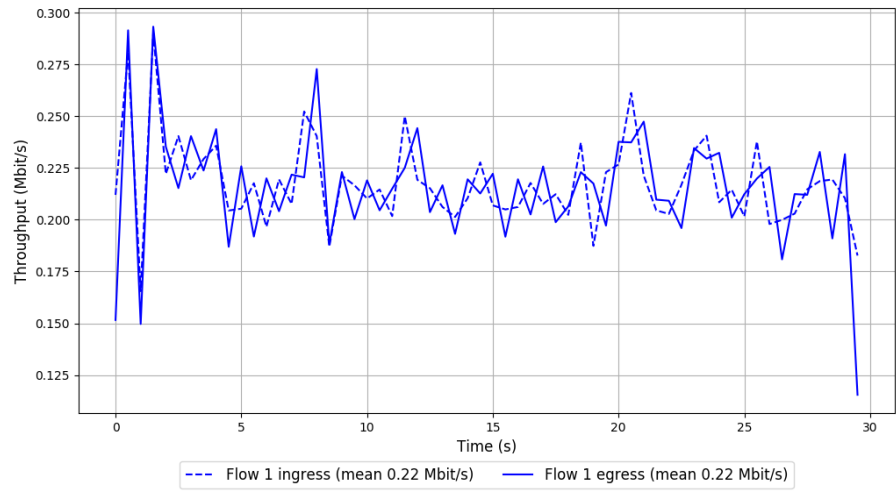
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 137.004 ms

Loss rate: 0.89%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2018-03-13 13:51:27

End at: 2018-03-13 13:51:57

Below is generated by plot.py at 2018-03-13 18:01:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 137.140 ms

Loss rate: 0.89%

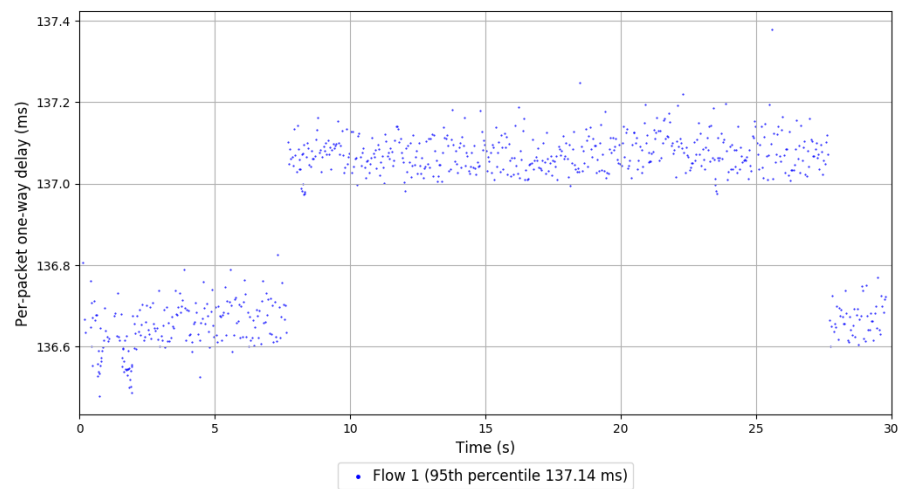
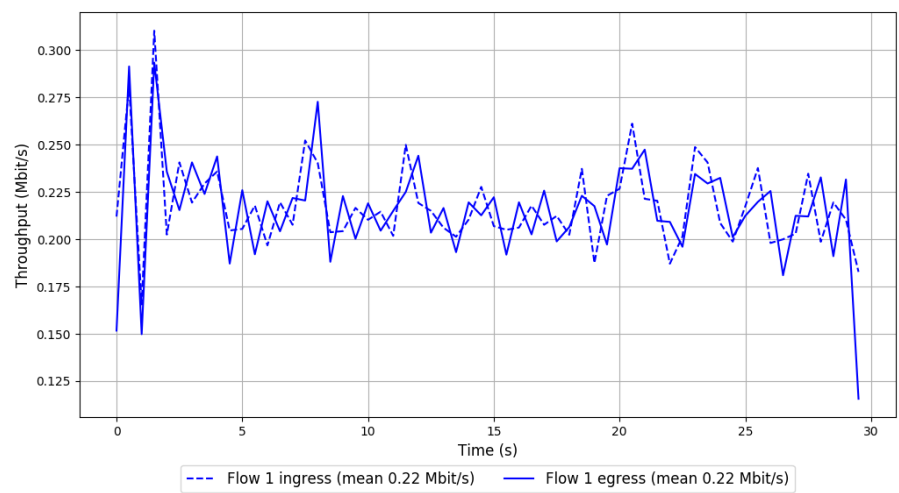
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 137.140 ms

Loss rate: 0.89%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-03-13 14:06:53

End at: 2018-03-13 14:07:23

Below is generated by plot.py at 2018-03-13 18:01:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.780 ms

Loss rate: 0.89%

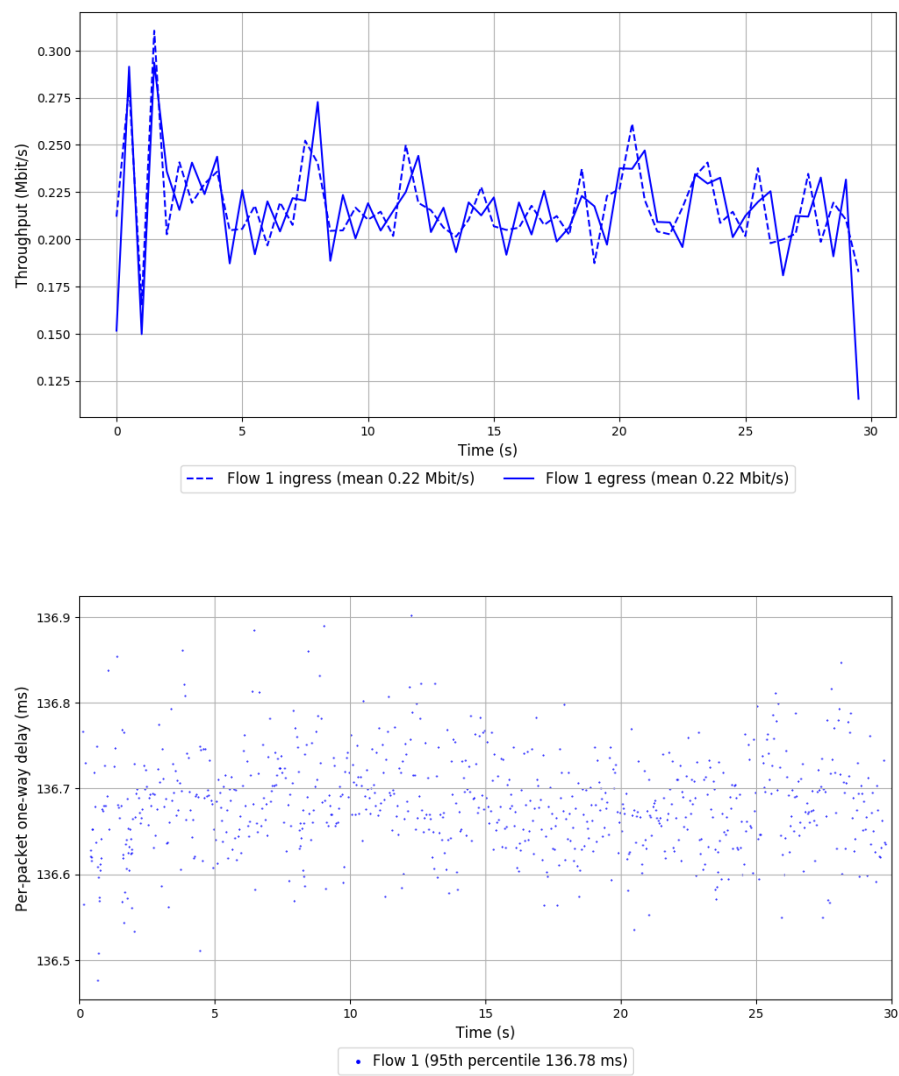
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.780 ms

Loss rate: 0.89%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-03-13 14:22:06

End at: 2018-03-13 14:22:36

Below is generated by plot.py at 2018-03-13 18:01:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 140.015 ms

Loss rate: 0.89%

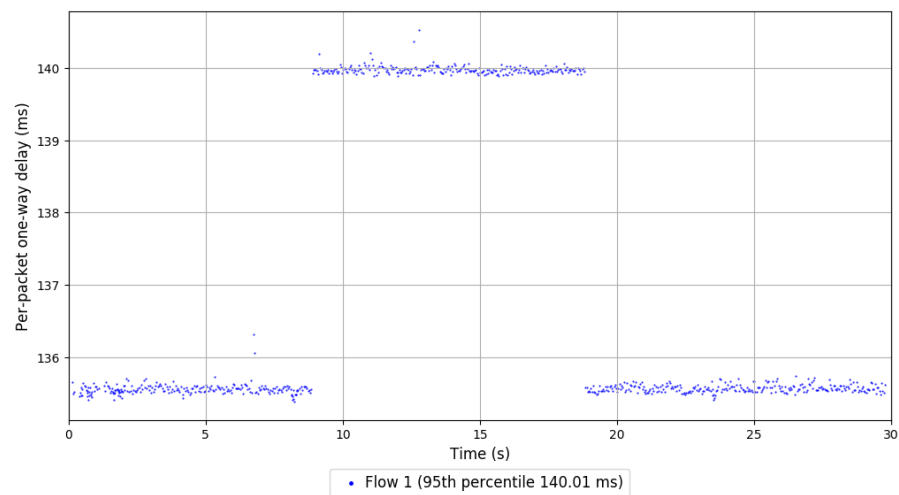
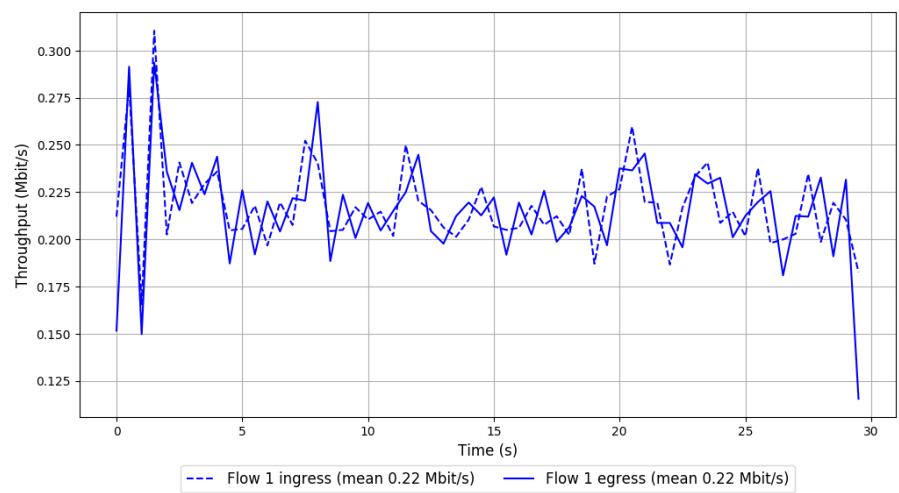
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 140.015 ms

Loss rate: 0.89%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-03-13 14:37:42

End at: 2018-03-13 14:38:12

Below is generated by plot.py at 2018-03-13 18:01:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 135.912 ms

Loss rate: 0.89%

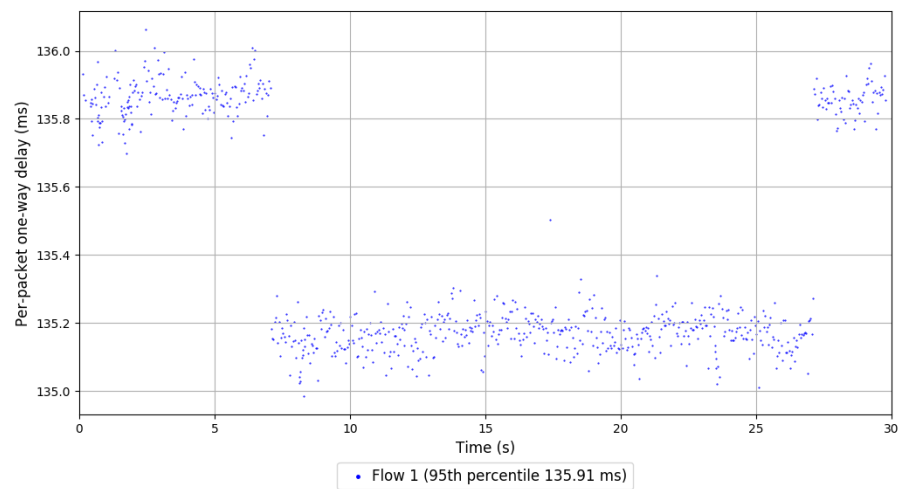
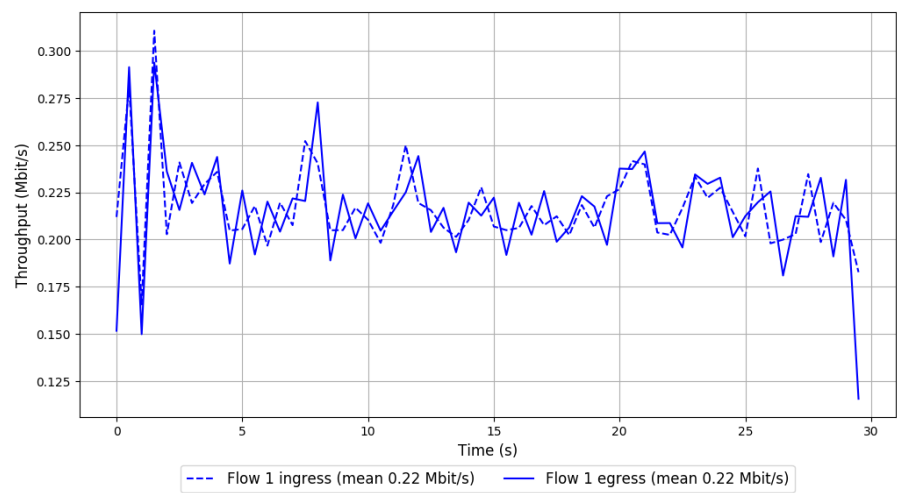
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 135.912 ms

Loss rate: 0.89%

Run 10: Report of SReAM — Data Link



Run 1: Statistics of WebRTC media

Start at: 2018-03-13 12:20:36

End at: 2018-03-13 12:21:06

Below is generated by plot.py at 2018-03-13 18:01:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.74 Mbit/s

95th percentile per-packet one-way delay: 136.715 ms

Loss rate: 1.34%

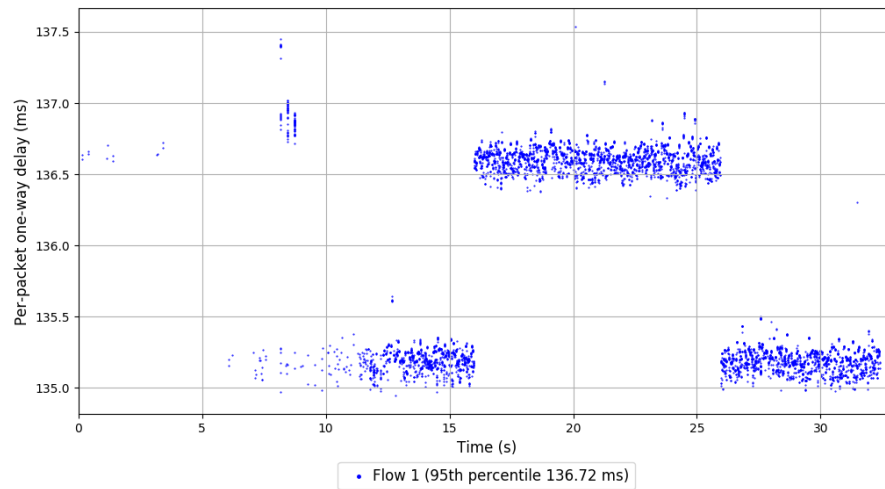
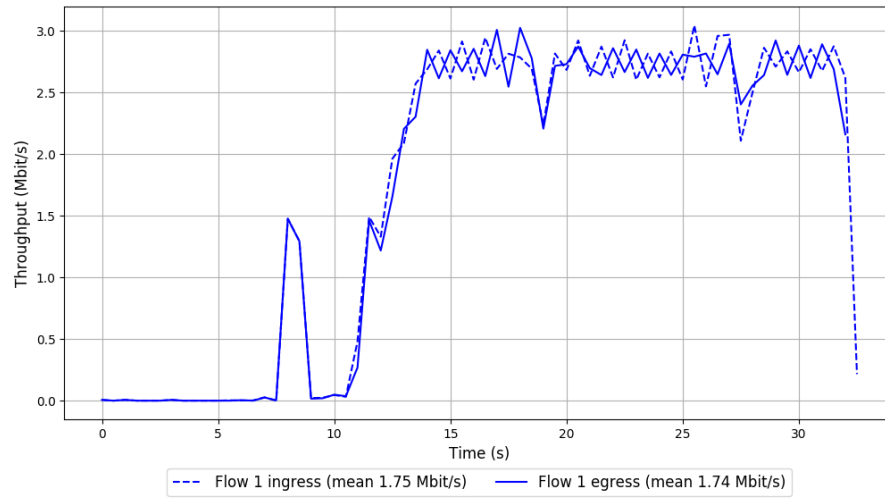
-- Flow 1:

Average throughput: 1.74 Mbit/s

95th percentile per-packet one-way delay: 136.715 ms

Loss rate: 1.34%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-03-13 12:36:20

End at: 2018-03-13 12:36:50

Below is generated by plot.py at 2018-03-13 18:01:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 136.341 ms

Loss rate: 1.03%

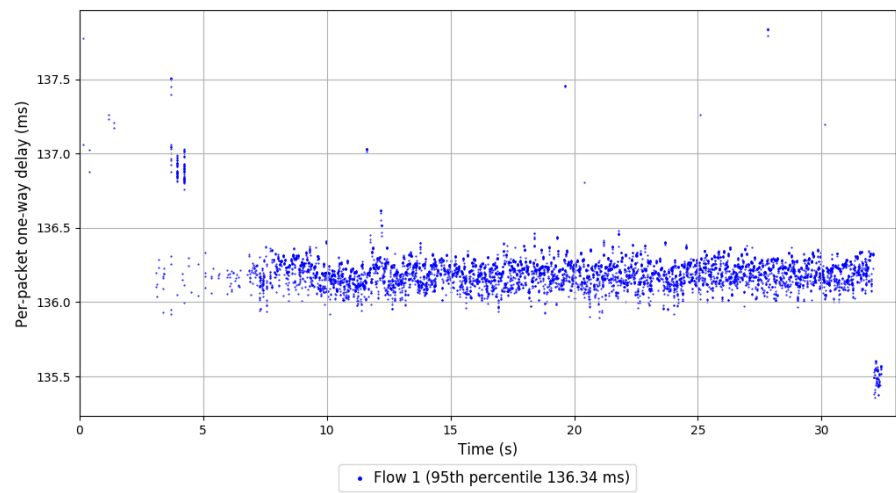
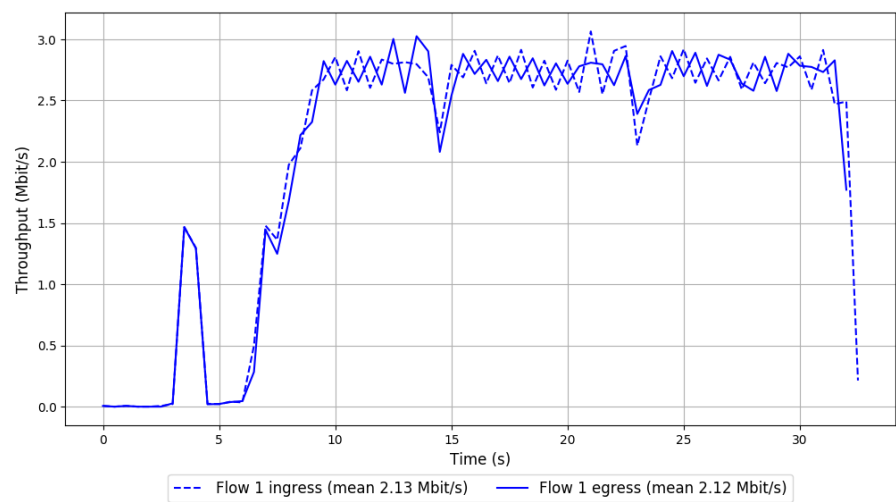
-- Flow 1:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 136.341 ms

Loss rate: 1.03%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-03-13 12:51:36

End at: 2018-03-13 12:52:06

Below is generated by plot.py at 2018-03-13 18:01:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 136.630 ms

Loss rate: 0.92%

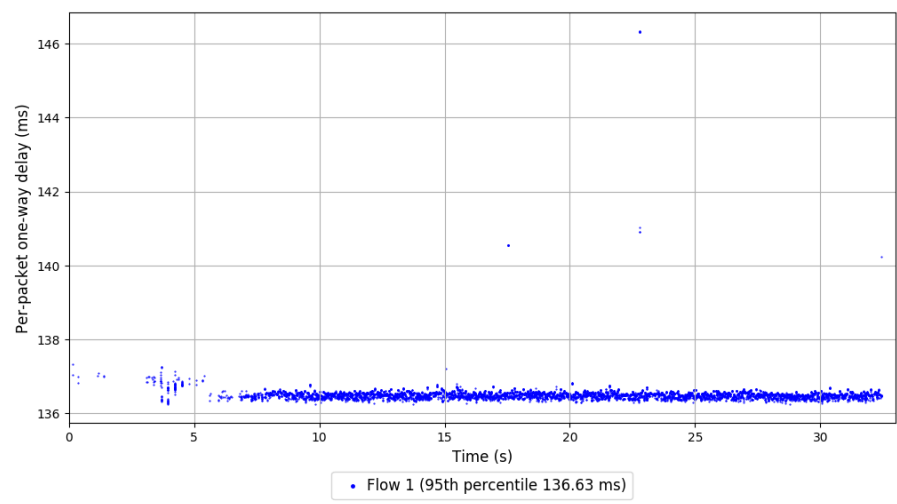
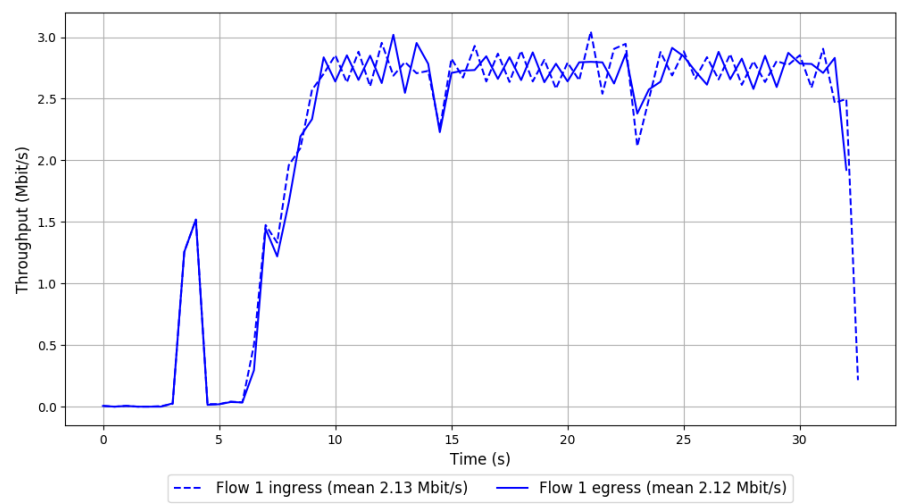
-- Flow 1:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 136.630 ms

Loss rate: 0.92%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-03-13 13:07:16

End at: 2018-03-13 13:07:46

Below is generated by plot.py at 2018-03-13 18:01:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 135.889 ms

Loss rate: 1.03%

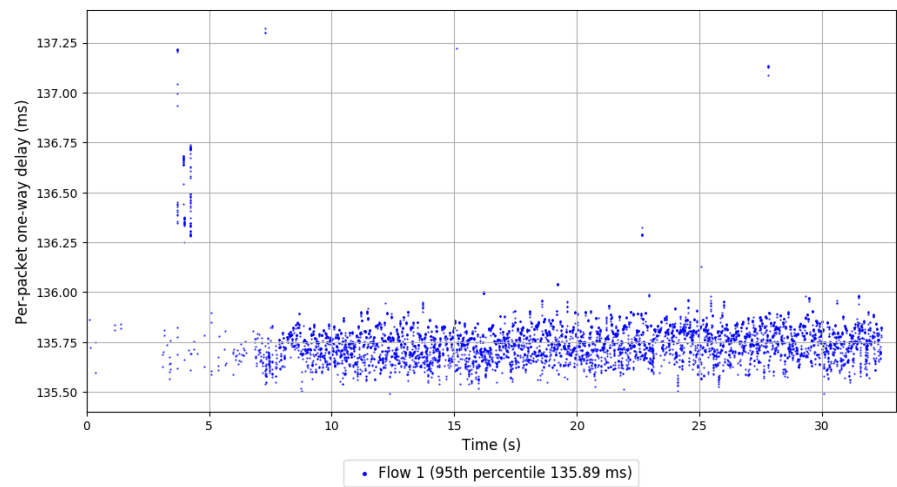
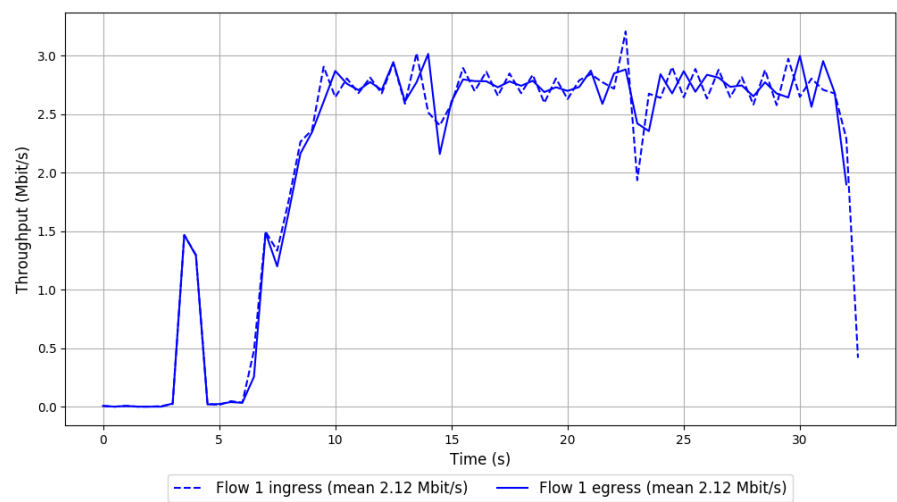
-- Flow 1:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 135.889 ms

Loss rate: 1.03%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-03-13 13:23:11

End at: 2018-03-13 13:23:41

Below is generated by plot.py at 2018-03-13 18:01:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 135.832 ms

Loss rate: 1.06%

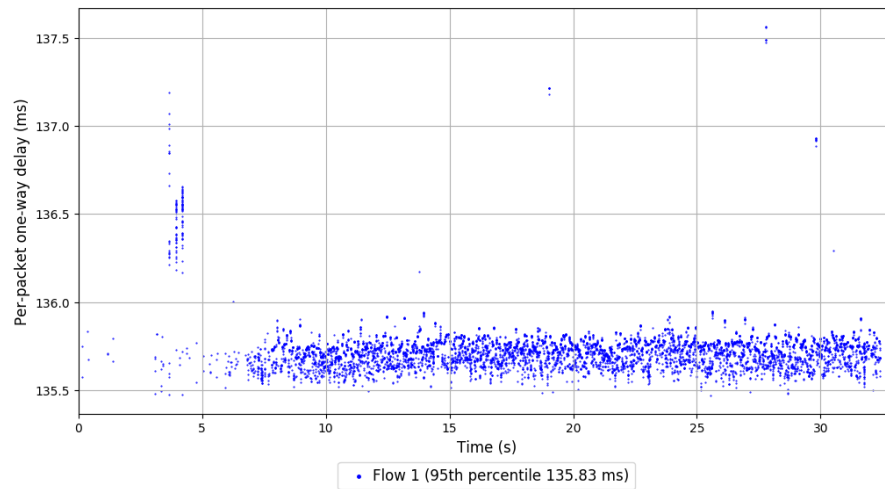
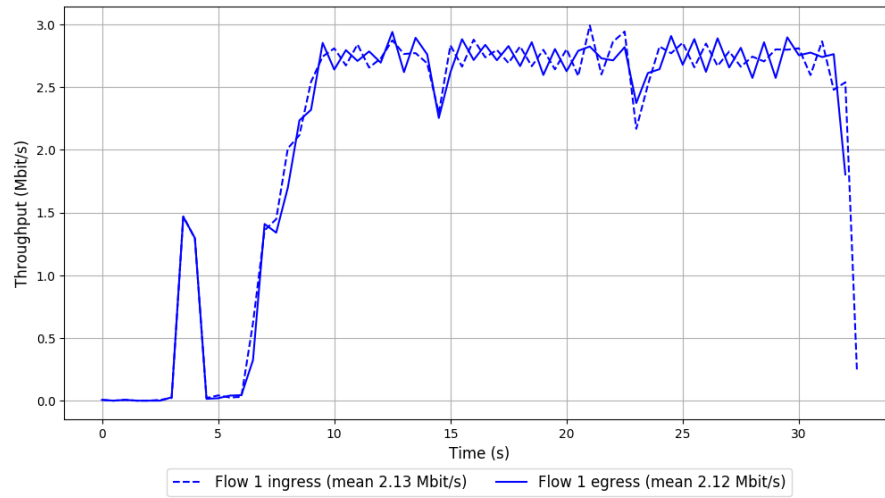
-- Flow 1:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 135.832 ms

Loss rate: 1.06%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-03-13 13:38:44

End at: 2018-03-13 13:39:14

Below is generated by plot.py at 2018-03-13 18:01:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 136.933 ms

Loss rate: 1.03%

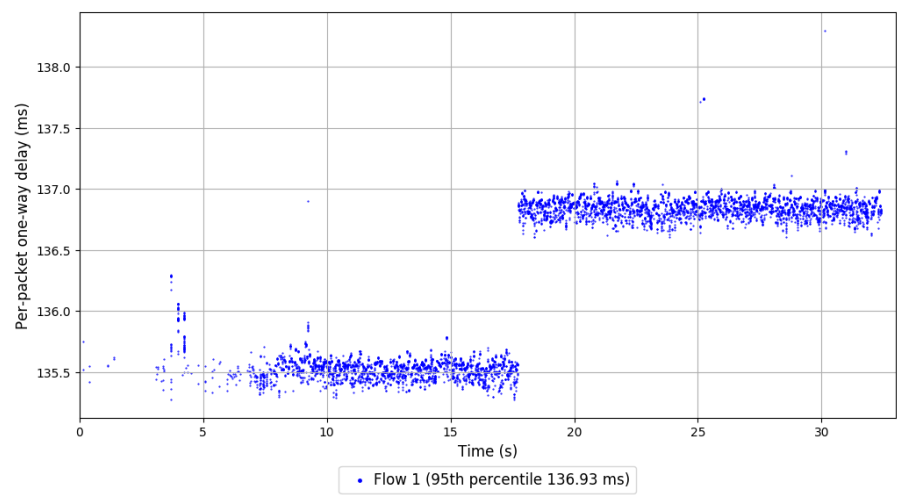
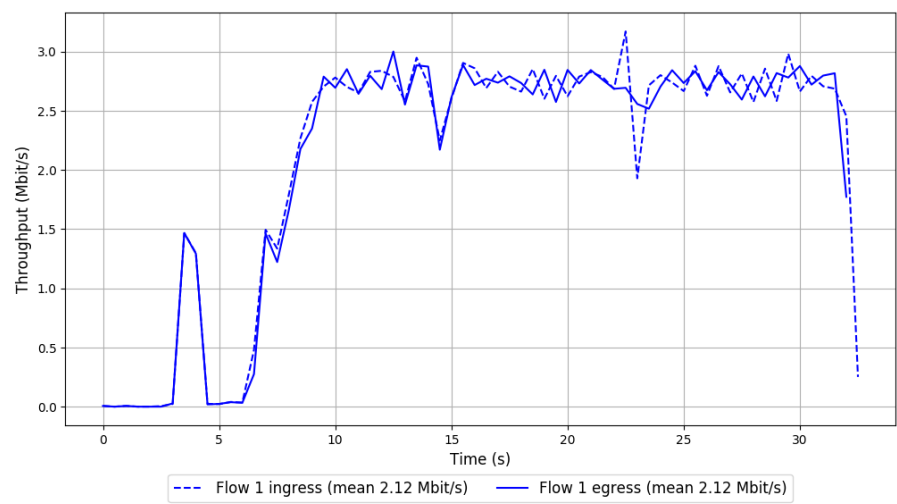
-- Flow 1:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 136.933 ms

Loss rate: 1.03%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-03-13 13:54:00

End at: 2018-03-13 13:54:30

Below is generated by plot.py at 2018-03-13 18:01:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 136.044 ms

Loss rate: 1.07%

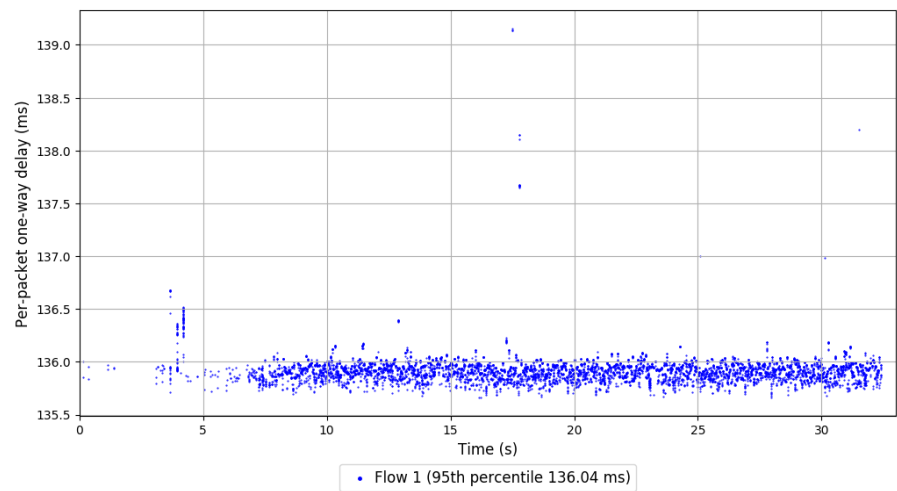
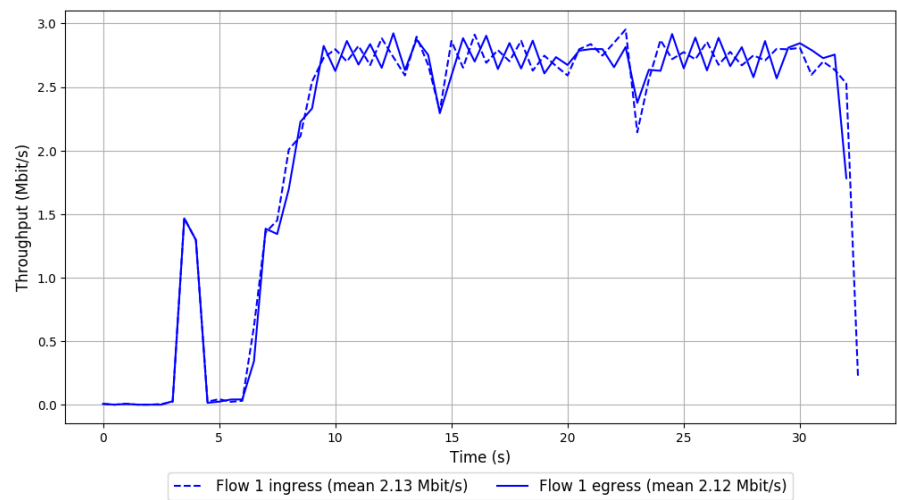
-- Flow 1:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 136.044 ms

Loss rate: 1.07%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-03-13 14:09:30

End at: 2018-03-13 14:10:00

Below is generated by plot.py at 2018-03-13 18:01:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 137.073 ms

Loss rate: 1.06%

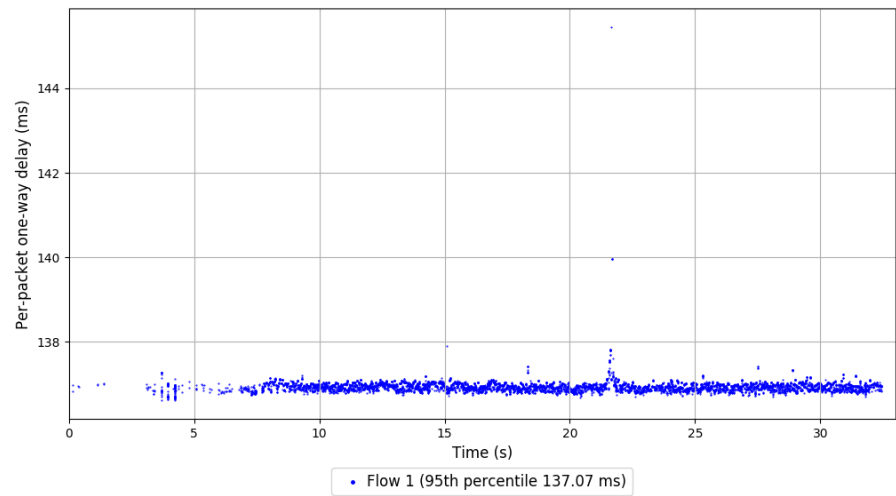
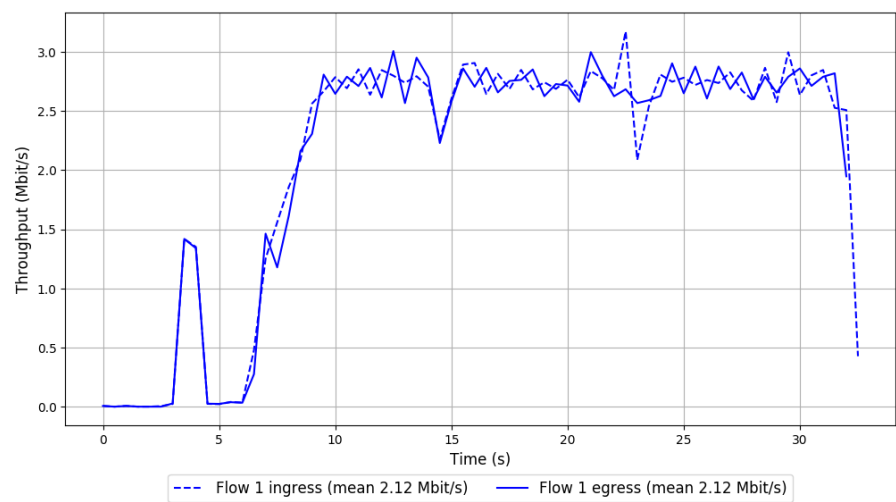
-- Flow 1:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 137.073 ms

Loss rate: 1.06%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-03-13 14:24:45

End at: 2018-03-13 14:25:15

Below is generated by plot.py at 2018-03-13 18:01:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 137.064 ms

Loss rate: 1.03%

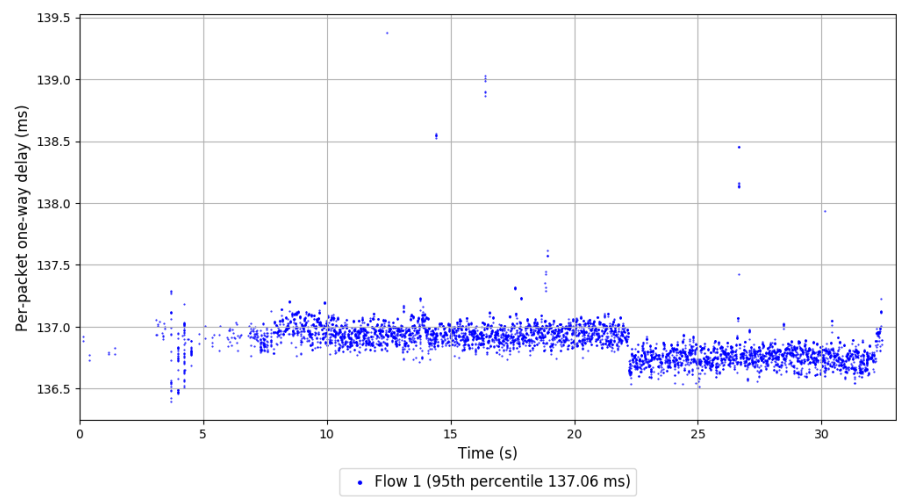
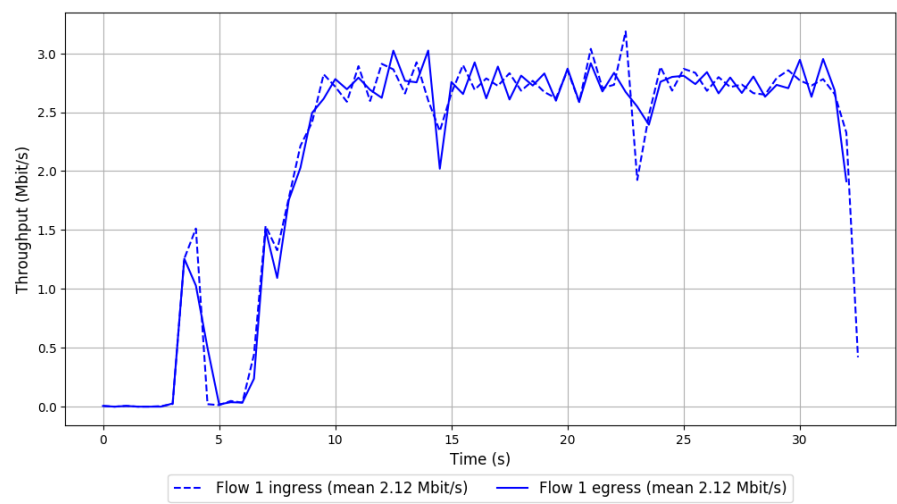
-- Flow 1:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 137.064 ms

Loss rate: 1.03%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-03-13 14:40:21

End at: 2018-03-13 14:40:51

Below is generated by plot.py at 2018-03-13 18:01:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 137.172 ms

Loss rate: 1.05%

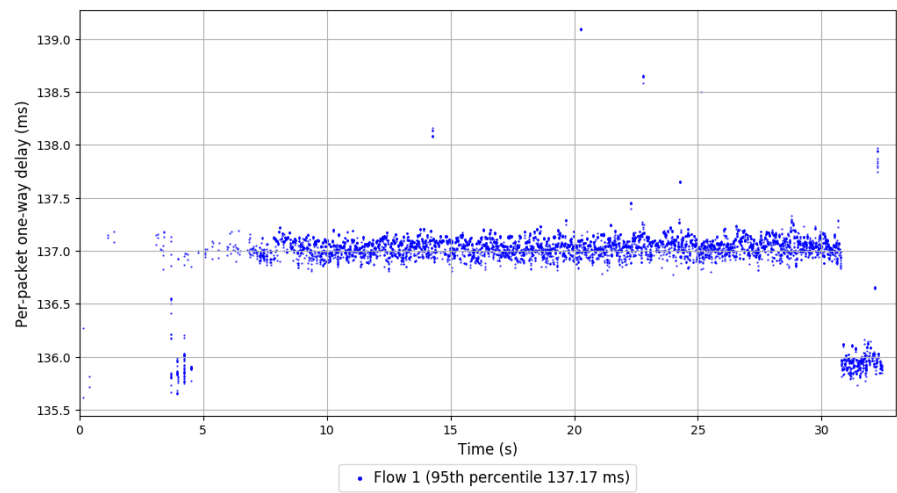
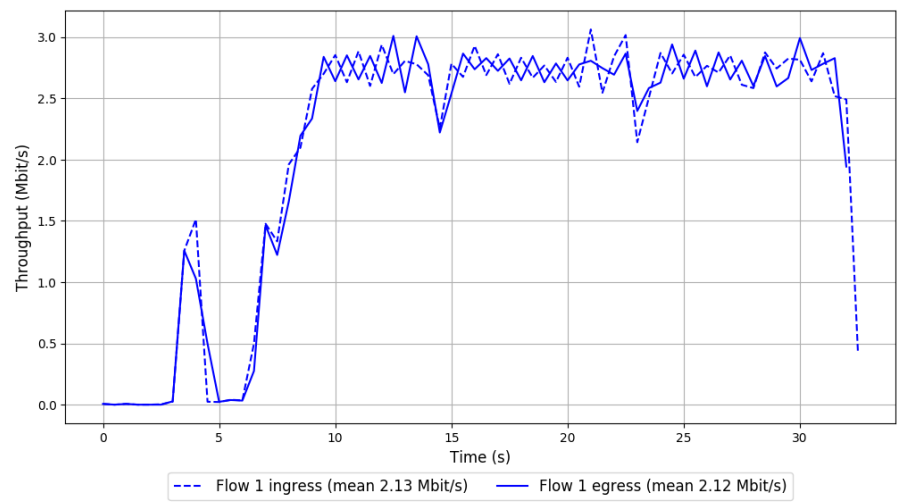
-- Flow 1:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 137.172 ms

Loss rate: 1.05%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2018-03-13 12:23:54

End at: 2018-03-13 12:24:24

Below is generated by plot.py at 2018-03-13 18:01:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 136.811 ms

Loss rate: 0.80%

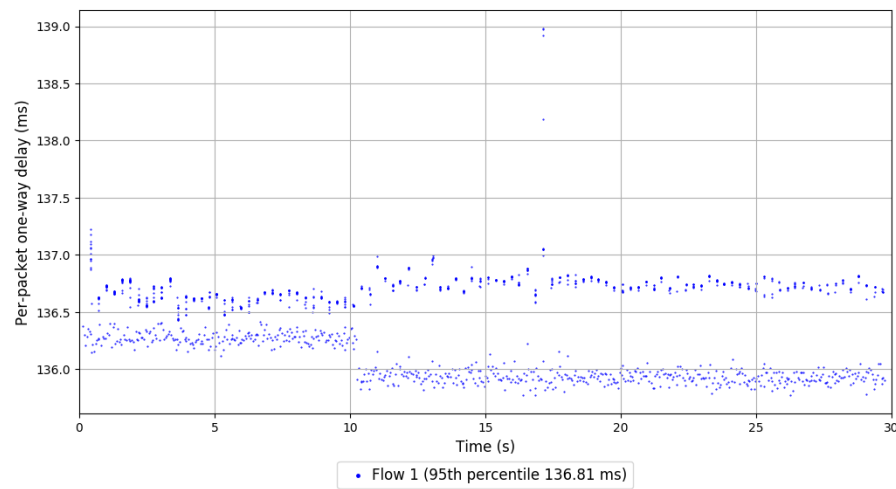
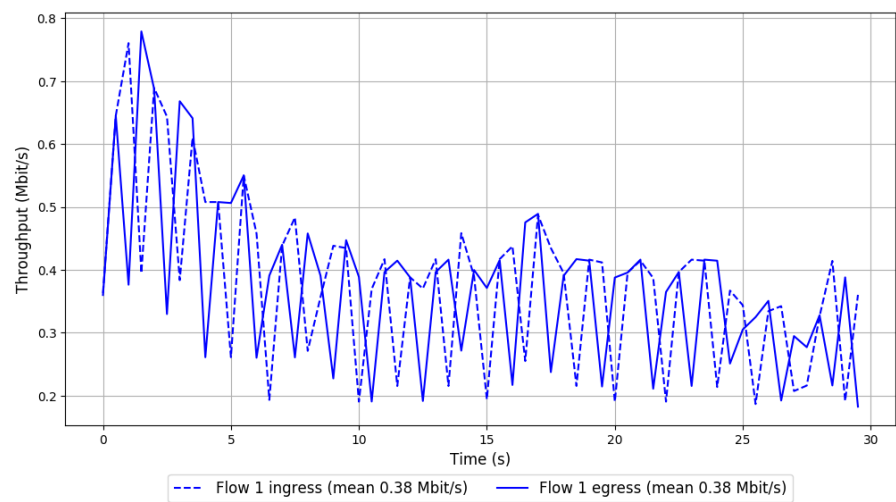
-- Flow 1:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 136.811 ms

Loss rate: 0.80%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-03-13 12:39:32

End at: 2018-03-13 12:40:02

Below is generated by plot.py at 2018-03-13 18:01:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: 137.158 ms

Loss rate: 0.77%

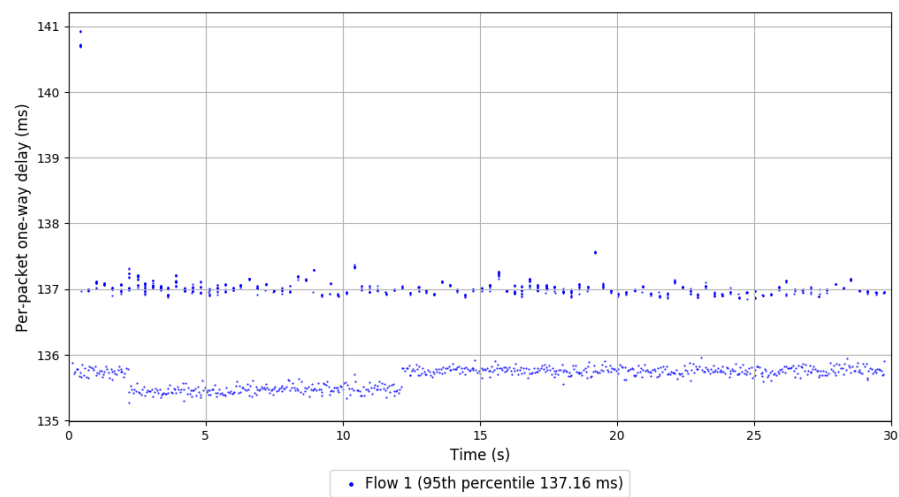
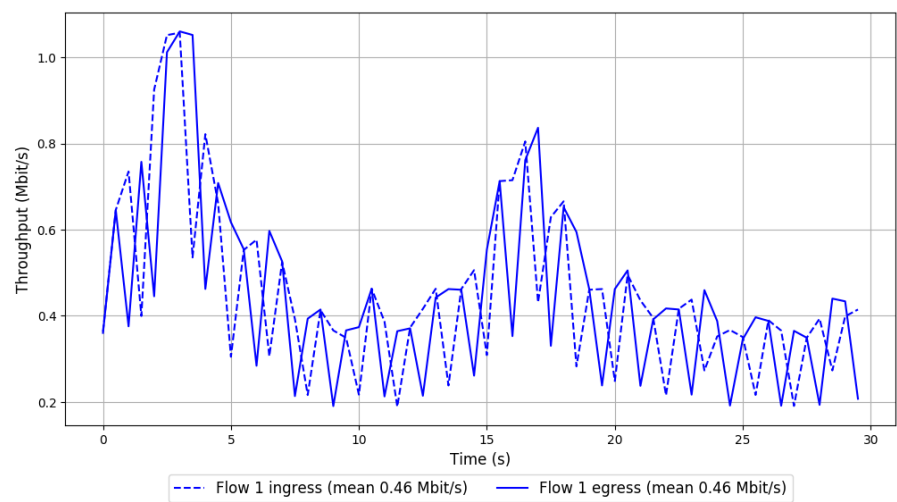
-- Flow 1:

Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: 137.158 ms

Loss rate: 0.77%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-03-13 12:55:05

End at: 2018-03-13 12:55:36

Below is generated by plot.py at 2018-03-13 18:01:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 136.615 ms

Loss rate: 0.91%

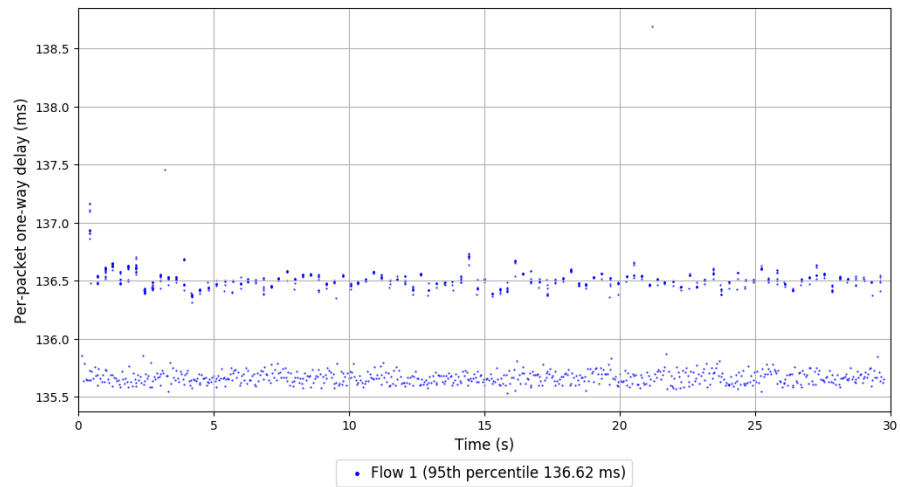
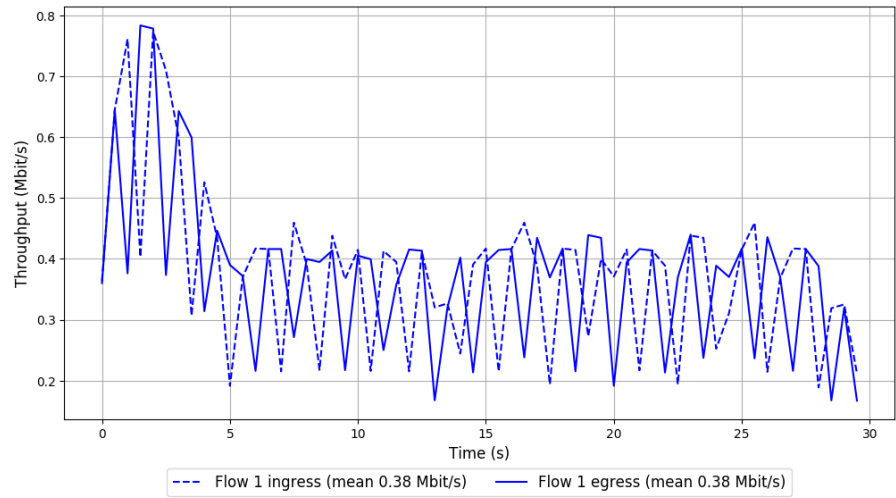
-- Flow 1:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 136.615 ms

Loss rate: 0.91%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-03-13 13:10:41

End at: 2018-03-13 13:11:11

Below is generated by plot.py at 2018-03-13 18:01:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 136.514 ms

Loss rate: 1.15%

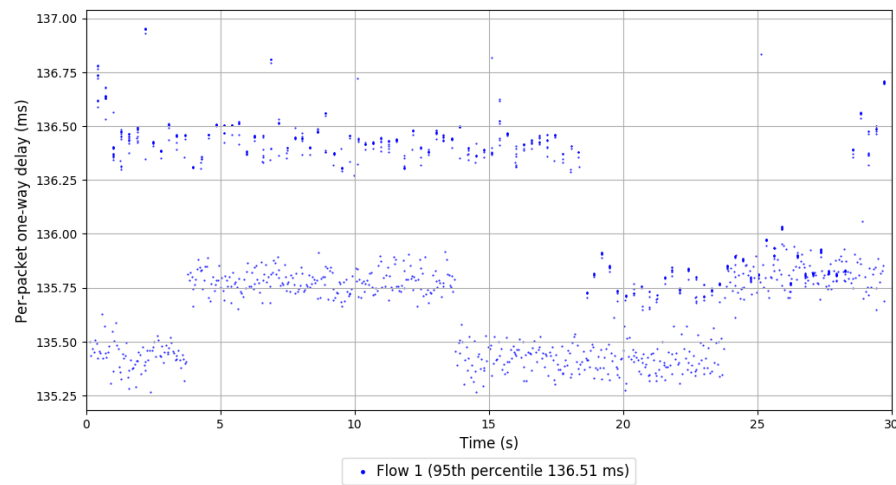
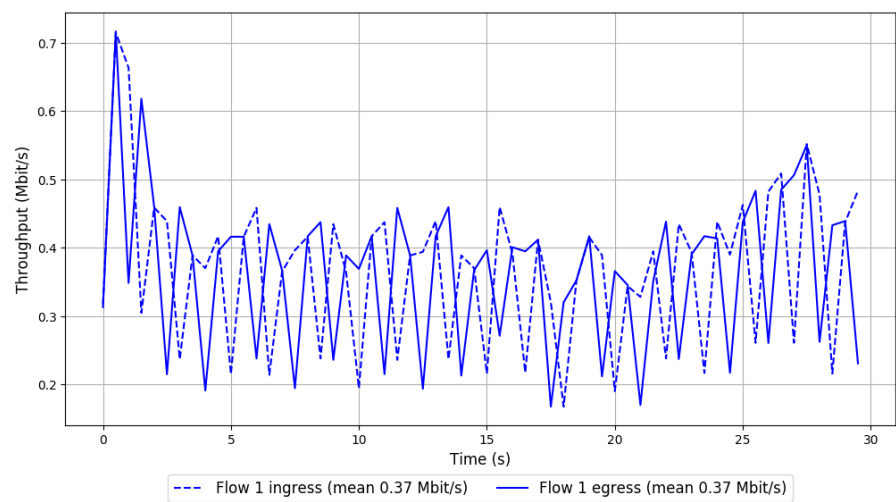
-- Flow 1:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 136.514 ms

Loss rate: 1.15%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-03-13 13:26:29

End at: 2018-03-13 13:26:59

Below is generated by plot.py at 2018-03-13 18:01:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.35 Mbit/s

95th percentile per-packet one-way delay: 136.806 ms

Loss rate: 0.98%

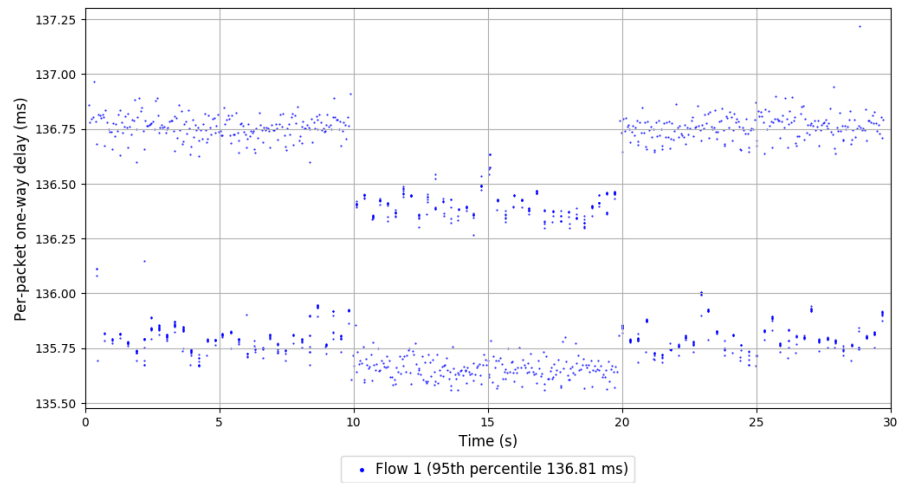
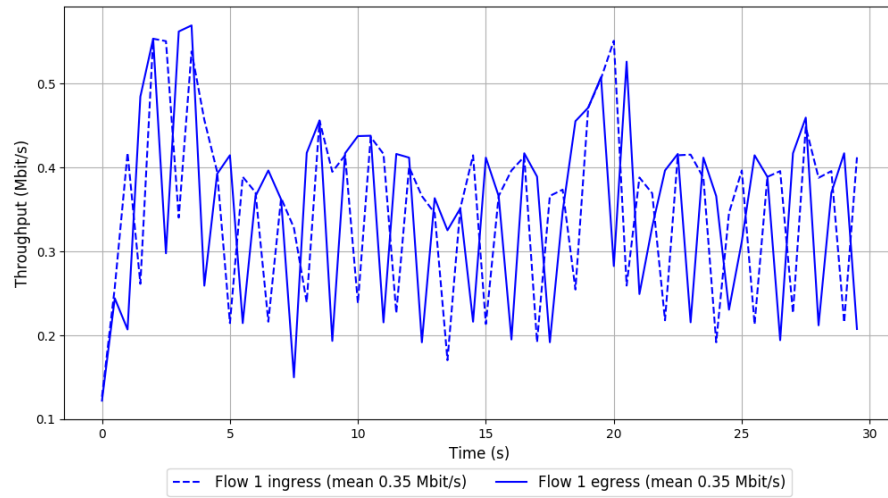
-- Flow 1:

Average throughput: 0.35 Mbit/s

95th percentile per-packet one-way delay: 136.806 ms

Loss rate: 0.98%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-03-13 13:42:05

End at: 2018-03-13 13:42:35

Below is generated by plot.py at 2018-03-13 18:01:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 137.071 ms

Loss rate: 0.89%

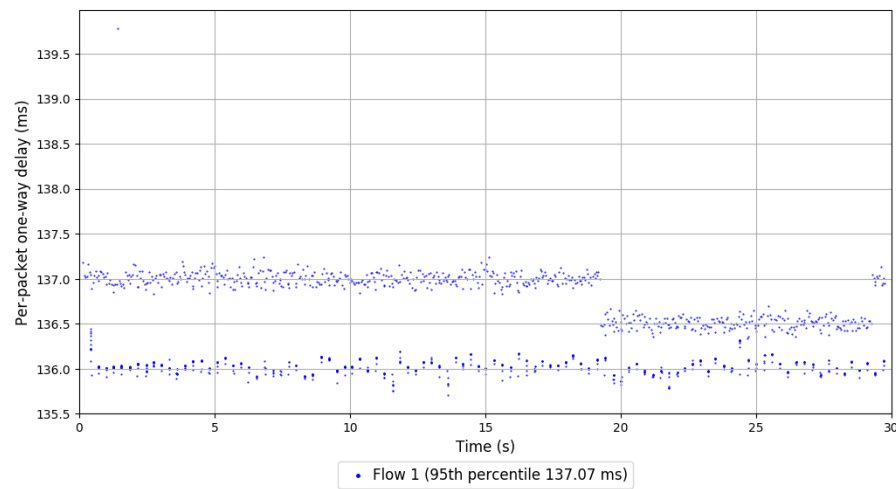
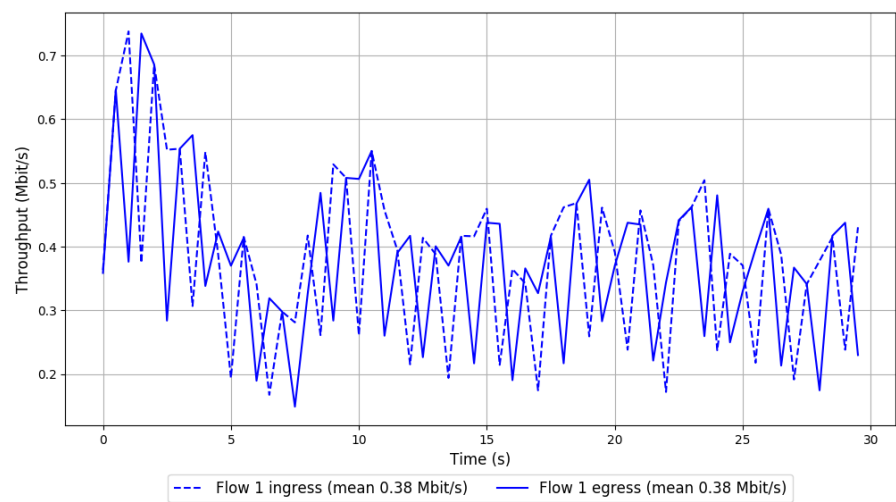
-- Flow 1:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 137.071 ms

Loss rate: 0.89%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-03-13 13:57:25

End at: 2018-03-13 13:57:55

Below is generated by plot.py at 2018-03-13 18:01:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 137.115 ms

Loss rate: 1.02%

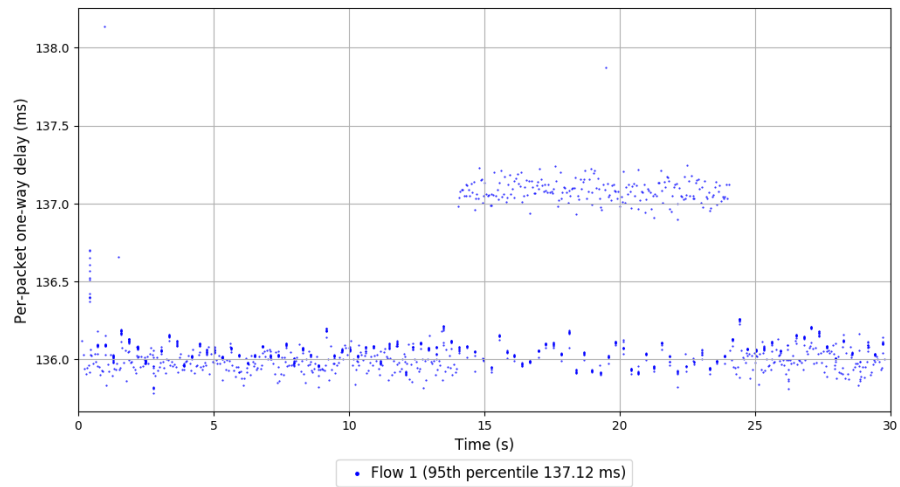
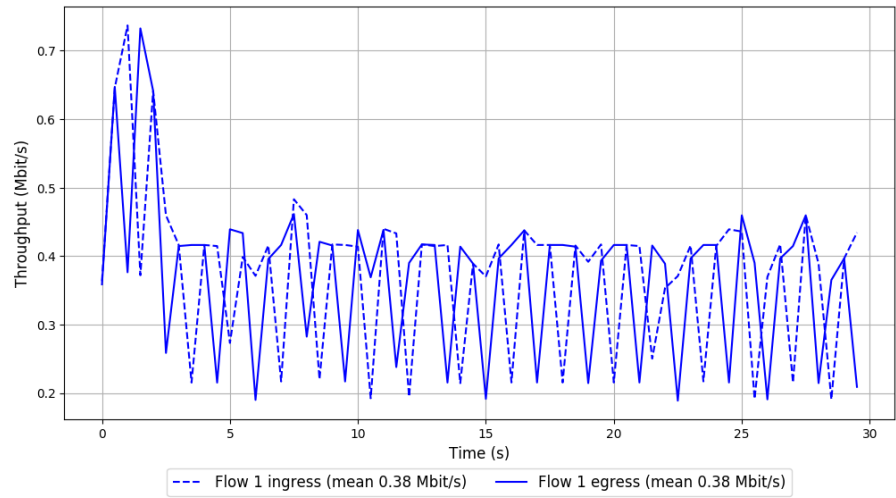
-- Flow 1:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 137.115 ms

Loss rate: 1.02%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-03-13 14:12:40

End at: 2018-03-13 14:13:10

Below is generated by plot.py at 2018-03-13 18:01:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 136.939 ms

Loss rate: 1.22%

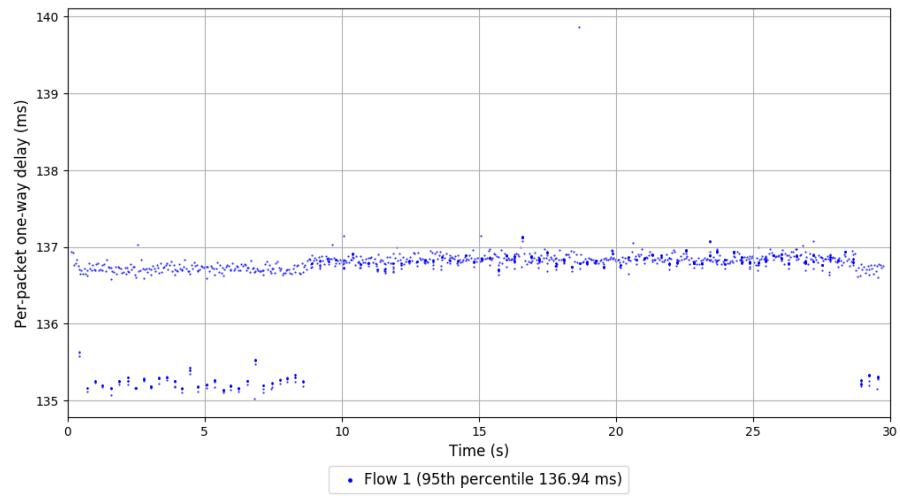
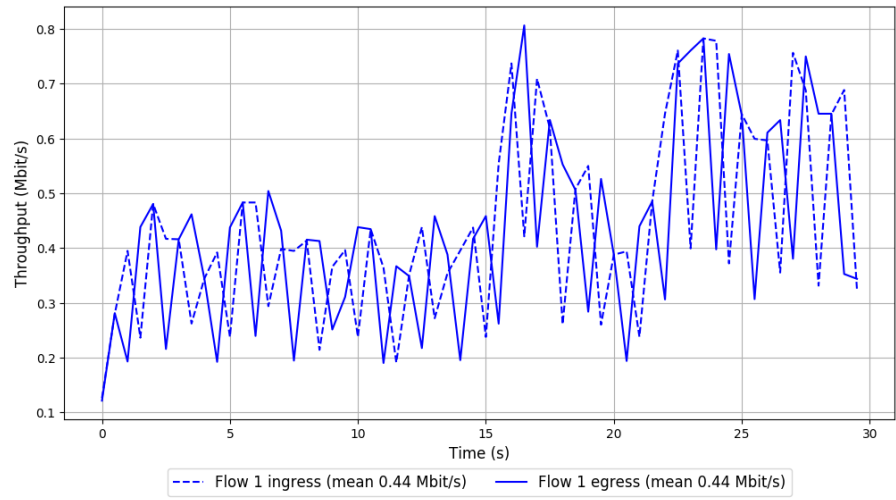
-- Flow 1:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 136.939 ms

Loss rate: 1.22%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-03-13 14:28:05

End at: 2018-03-13 14:28:35

Below is generated by plot.py at 2018-03-13 18:01:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 136.717 ms

Loss rate: 0.29%

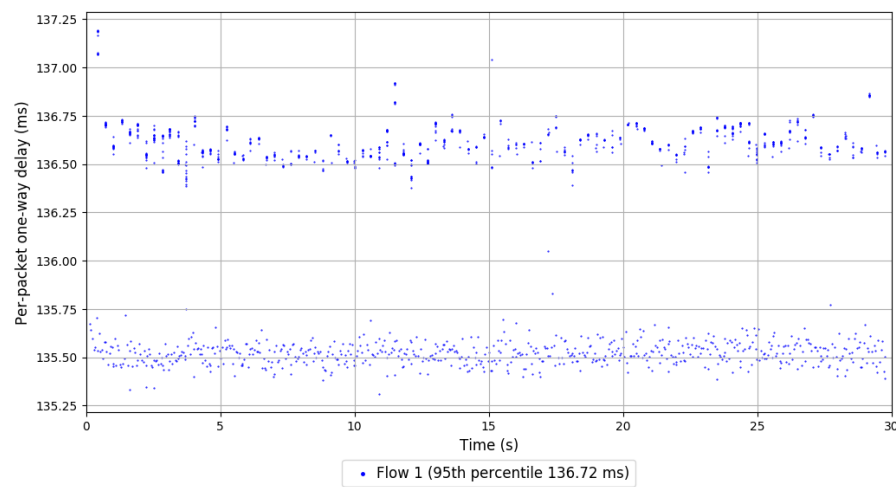
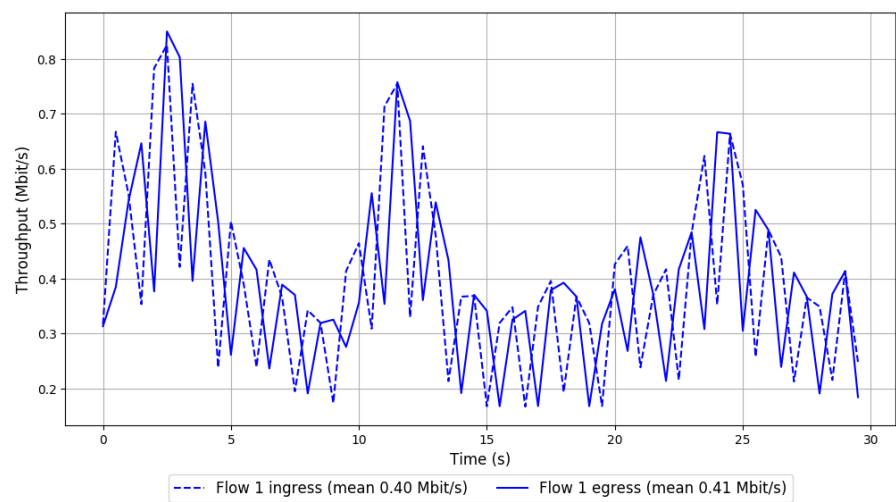
-- Flow 1:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 136.717 ms

Loss rate: 0.29%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-03-13 14:43:43

End at: 2018-03-13 14:44:13

Below is generated by plot.py at 2018-03-13 18:01:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 136.227 ms

Loss rate: 0.95%

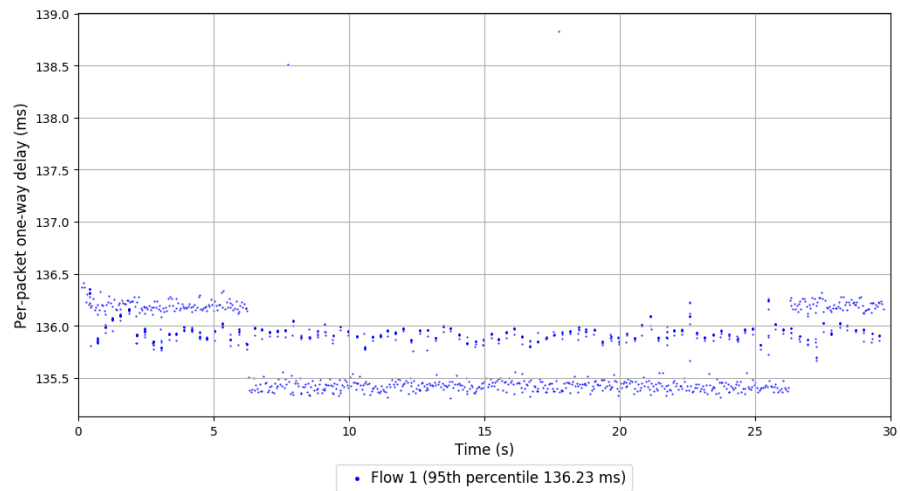
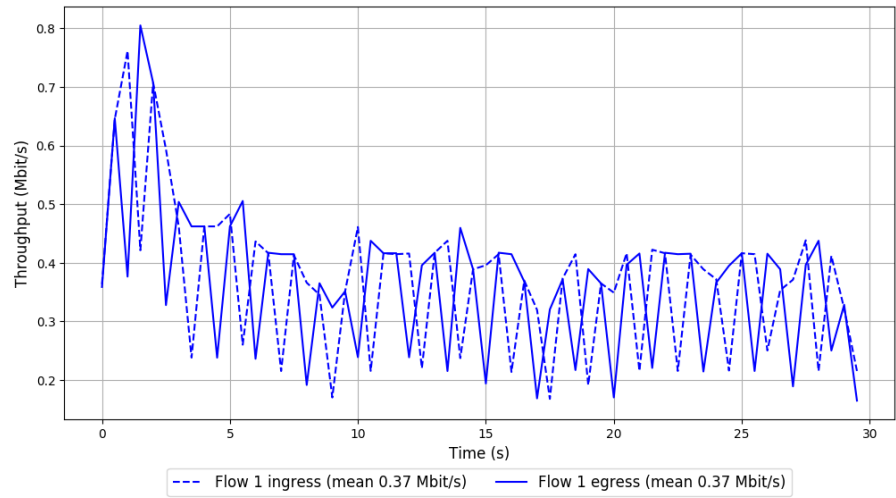
-- Flow 1:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 136.227 ms

Loss rate: 0.95%

Run 10: Report of Sprout — Data Link

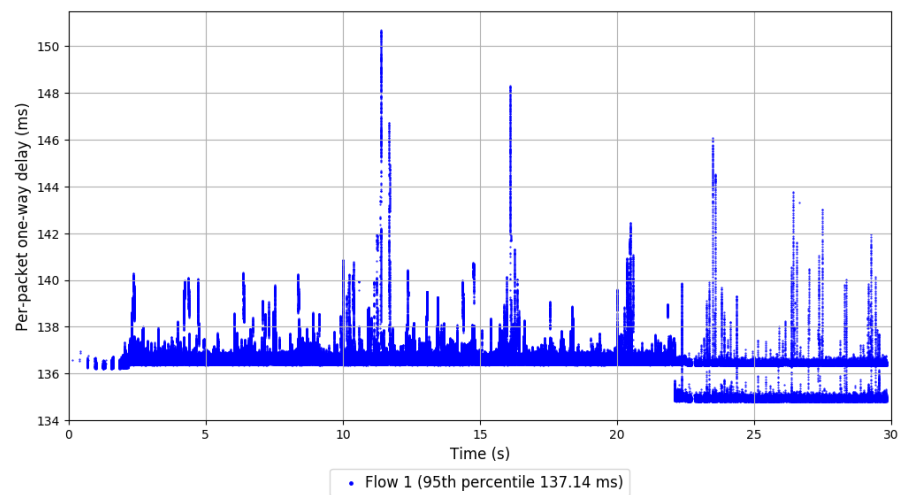
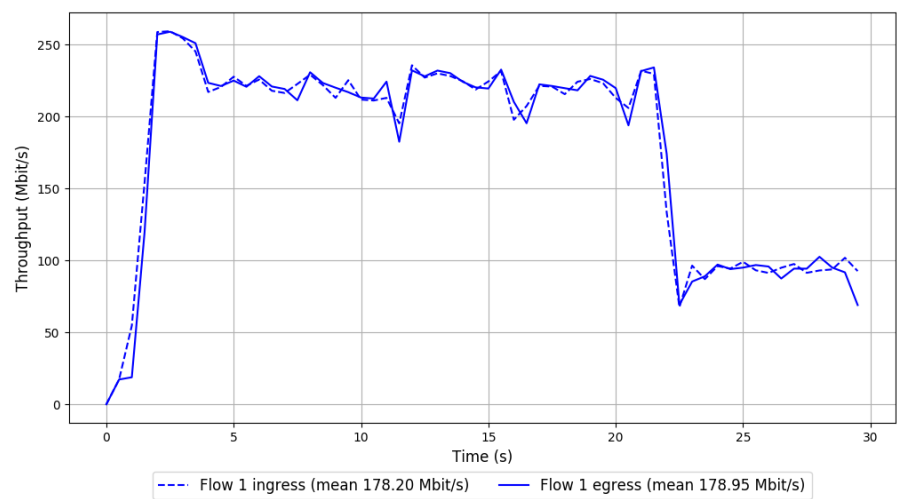


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-03-13 12:29:12
End at: 2018-03-13 12:29:42

# Below is generated by plot.py at 2018-03-13 18:01:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 178.95 Mbit/s
95th percentile per-packet one-way delay: 137.142 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 178.95 Mbit/s
95th percentile per-packet one-way delay: 137.142 ms
Loss rate: 0.49%
```

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

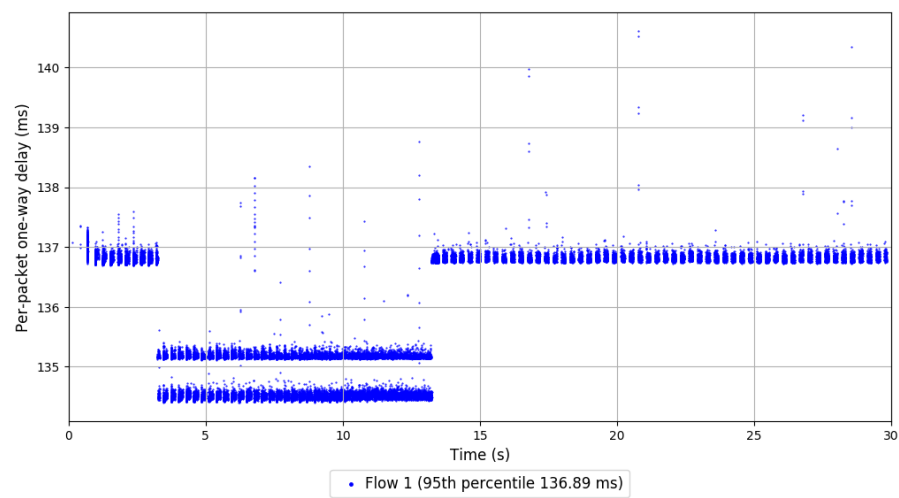
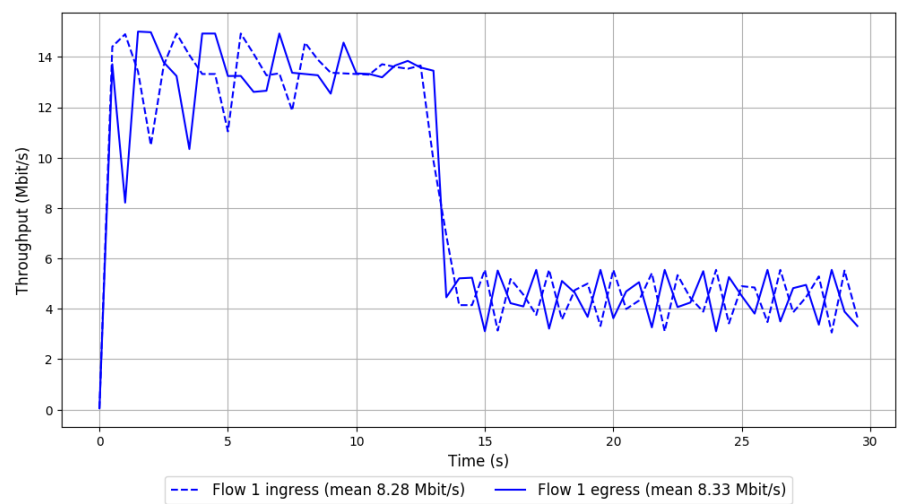


```
Run 2: Statistics of TaoVA-100x

Start at: 2018-03-13 12:44:46
End at: 2018-03-13 12:45:16

# Below is generated by plot.py at 2018-03-13 18:01:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 8.33 Mbit/s
95th percentile per-packet one-way delay: 136.889 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 8.33 Mbit/s
95th percentile per-packet one-way delay: 136.889 ms
Loss rate: 0.40%
```

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-03-13 13:00:19

End at: 2018-03-13 13:00:49

Below is generated by plot.py at 2018-03-13 18:01:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.39 Mbit/s

95th percentile per-packet one-way delay: 136.383 ms

Loss rate: 0.92%

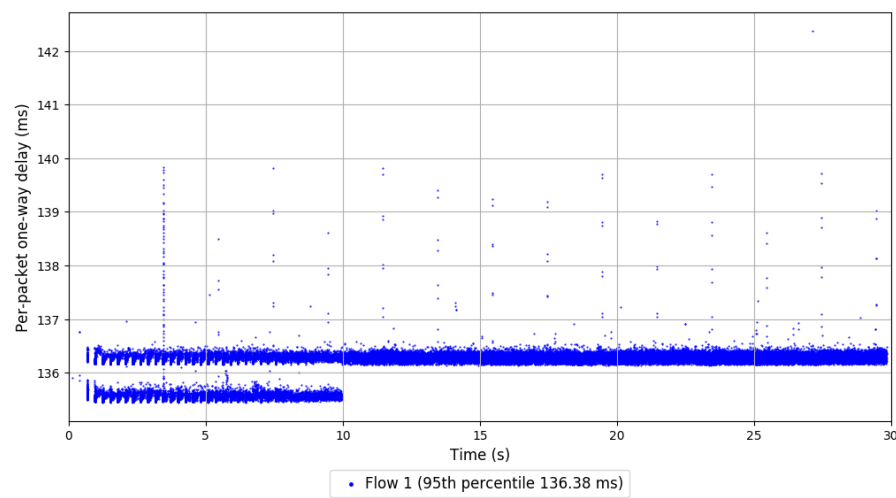
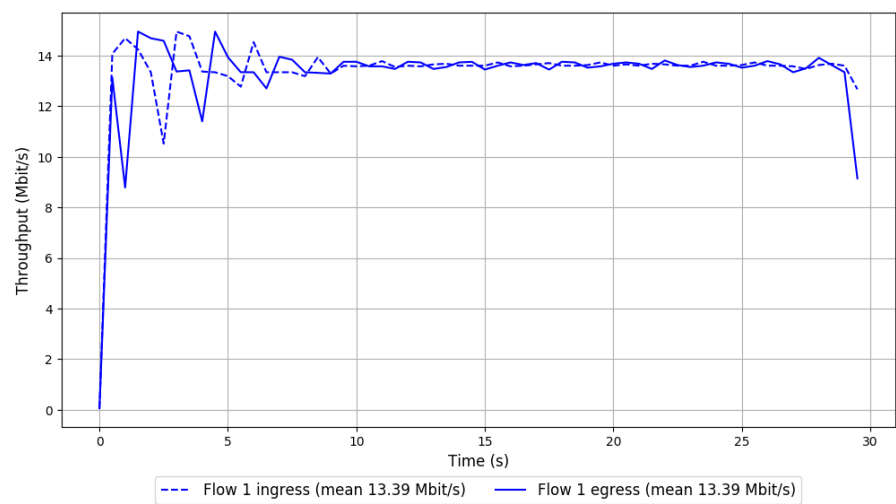
-- Flow 1:

Average throughput: 13.39 Mbit/s

95th percentile per-packet one-way delay: 136.383 ms

Loss rate: 0.92%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-03-13 13:16:03

End at: 2018-03-13 13:16:33

Below is generated by plot.py at 2018-03-13 18:01:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 189.20 Mbit/s

95th percentile per-packet one-way delay: 136.469 ms

Loss rate: 1.00%

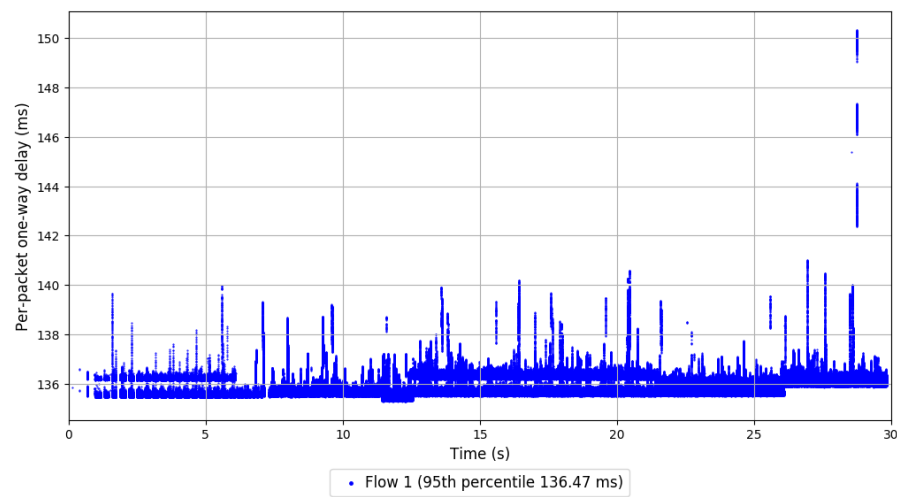
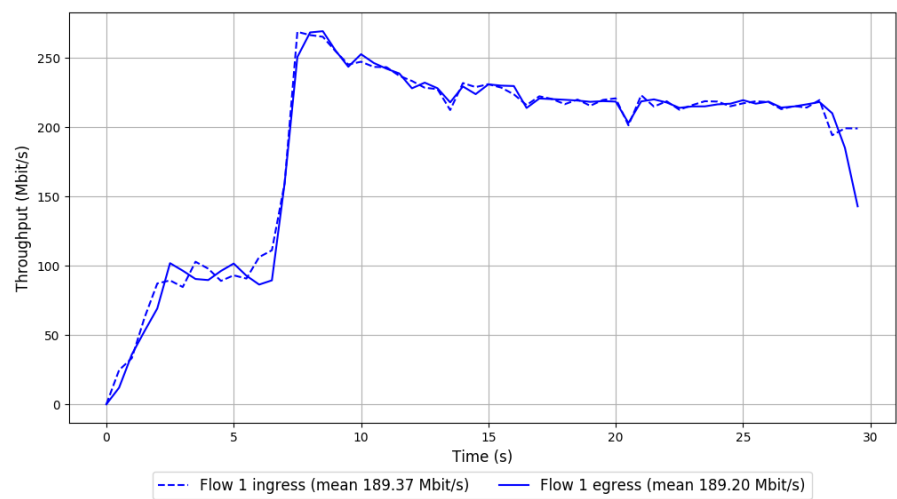
-- Flow 1:

Average throughput: 189.20 Mbit/s

95th percentile per-packet one-way delay: 136.469 ms

Loss rate: 1.00%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-03-13 13:31:40

End at: 2018-03-13 13:32:10

Below is generated by plot.py at 2018-03-13 18:02:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 210.05 Mbit/s

95th percentile per-packet one-way delay: 136.843 ms

Loss rate: 0.82%

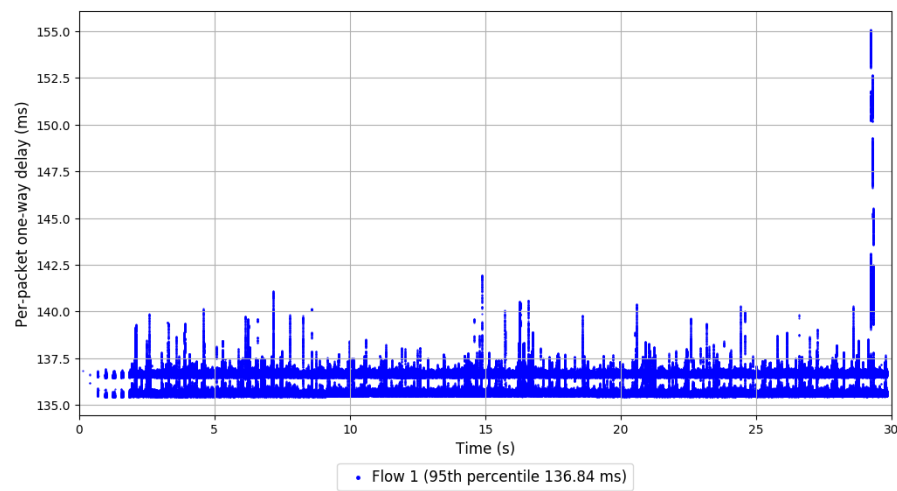
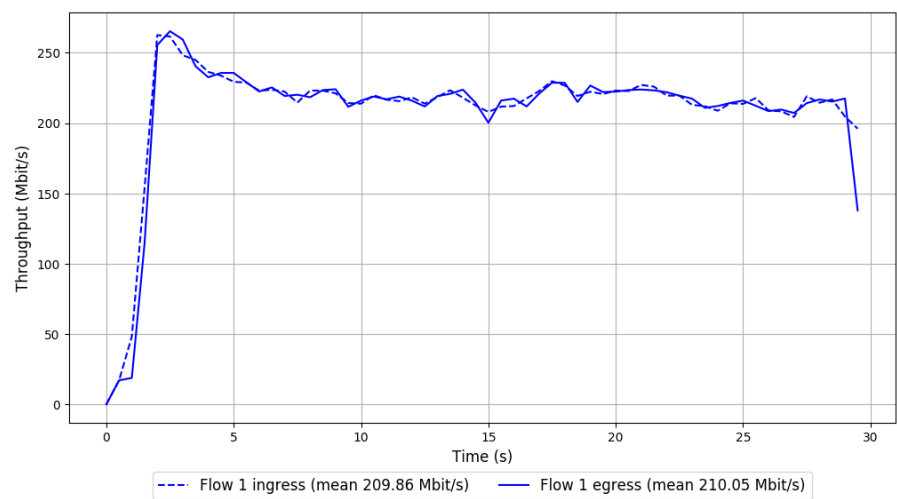
-- Flow 1:

Average throughput: 210.05 Mbit/s

95th percentile per-packet one-way delay: 136.843 ms

Loss rate: 0.82%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-03-13 13:47:20

End at: 2018-03-13 13:47:50

Below is generated by plot.py at 2018-03-13 18:02:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.42 Mbit/s

95th percentile per-packet one-way delay: 136.796 ms

Loss rate: 0.92%

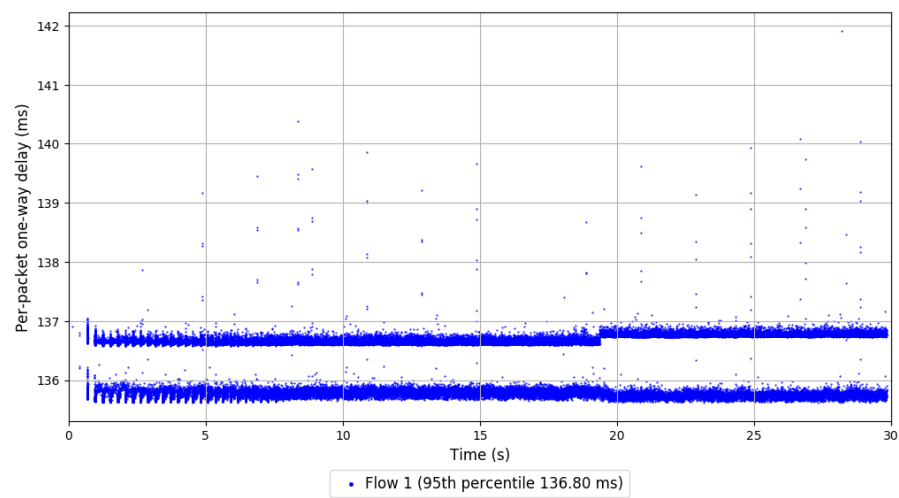
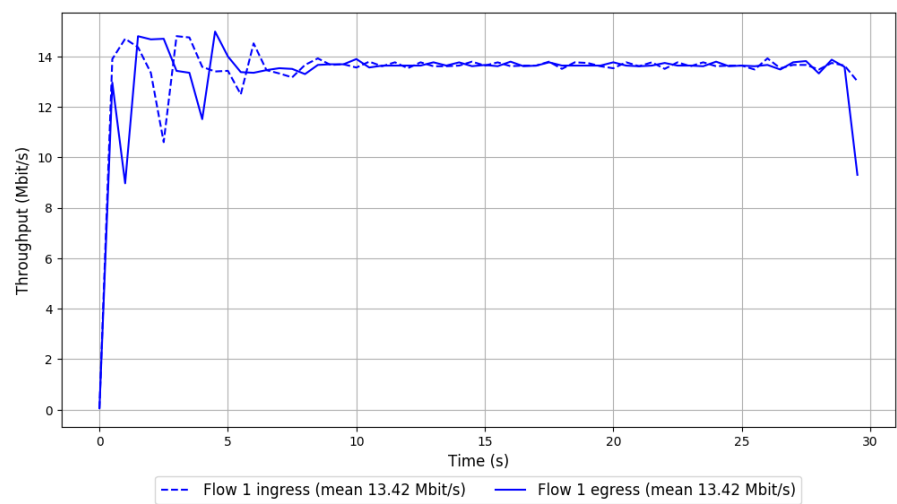
-- Flow 1:

Average throughput: 13.42 Mbit/s

95th percentile per-packet one-way delay: 136.796 ms

Loss rate: 0.92%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-03-13 14:02:39

End at: 2018-03-13 14:03:09

Below is generated by plot.py at 2018-03-13 18:02:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.30 Mbit/s

95th percentile per-packet one-way delay: 136.653 ms

Loss rate: 0.93%

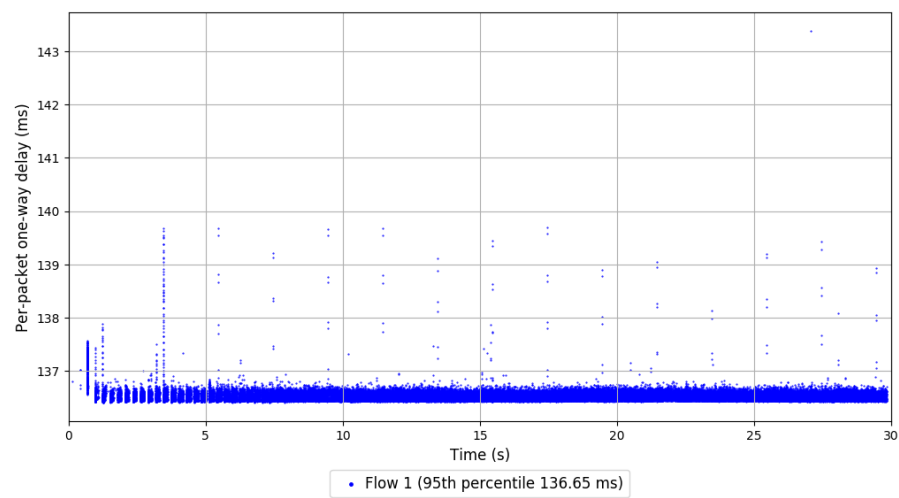
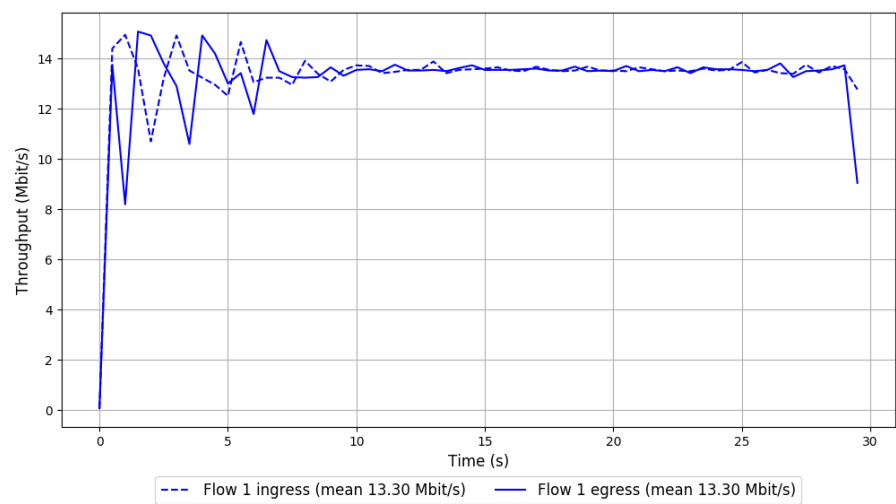
-- Flow 1:

Average throughput: 13.30 Mbit/s

95th percentile per-packet one-way delay: 136.653 ms

Loss rate: 0.93%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-03-13 14:17:54

End at: 2018-03-13 14:18:24

Below is generated by plot.py at 2018-03-13 18:02:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.37 Mbit/s

95th percentile per-packet one-way delay: 136.616 ms

Loss rate: 0.93%

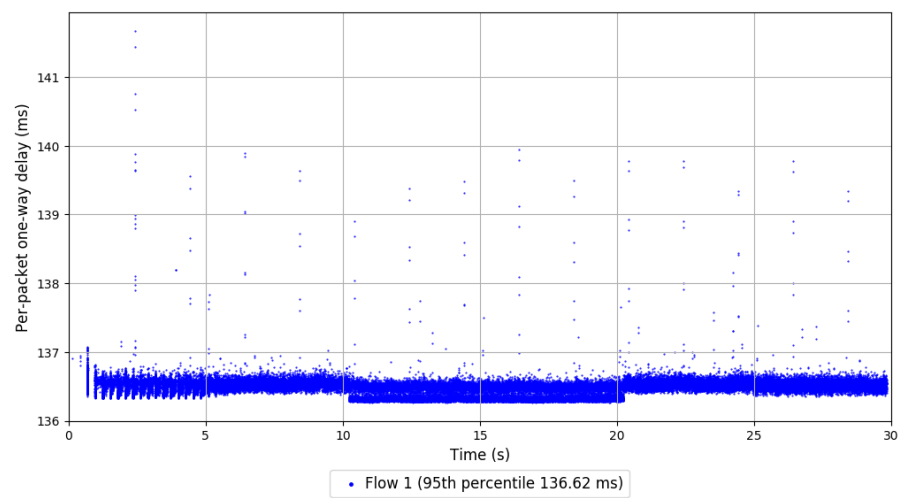
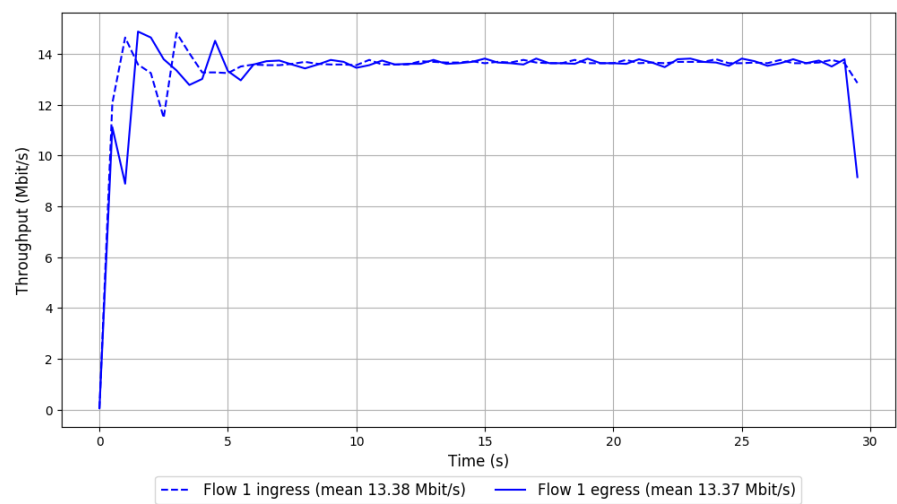
-- Flow 1:

Average throughput: 13.37 Mbit/s

95th percentile per-packet one-way delay: 136.616 ms

Loss rate: 0.93%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-03-13 14:33:20

End at: 2018-03-13 14:33:50

Below is generated by plot.py at 2018-03-13 18:02:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 22.70 Mbit/s

95th percentile per-packet one-way delay: 139.784 ms

Loss rate: 0.17%

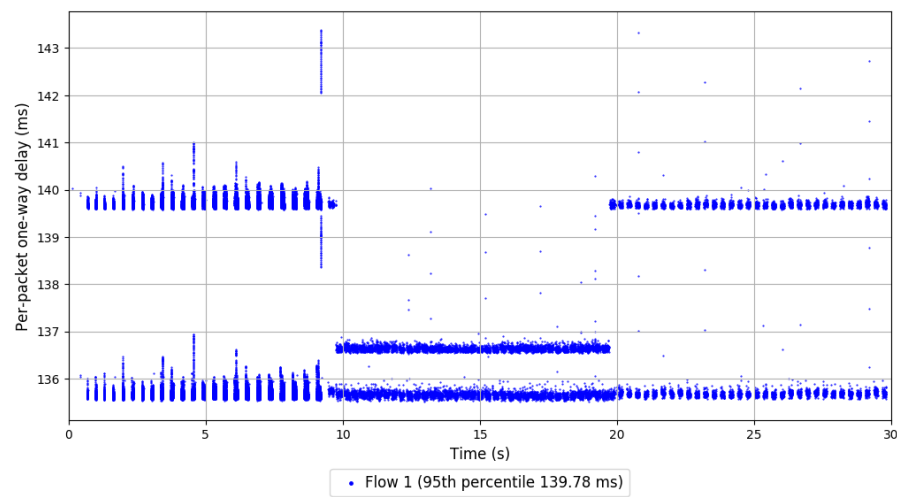
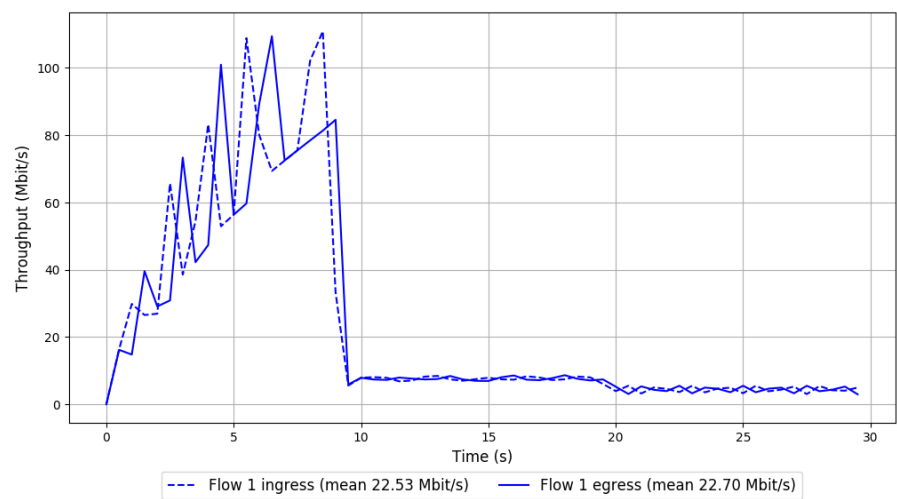
-- Flow 1:

Average throughput: 22.70 Mbit/s

95th percentile per-packet one-way delay: 139.784 ms

Loss rate: 0.17%

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

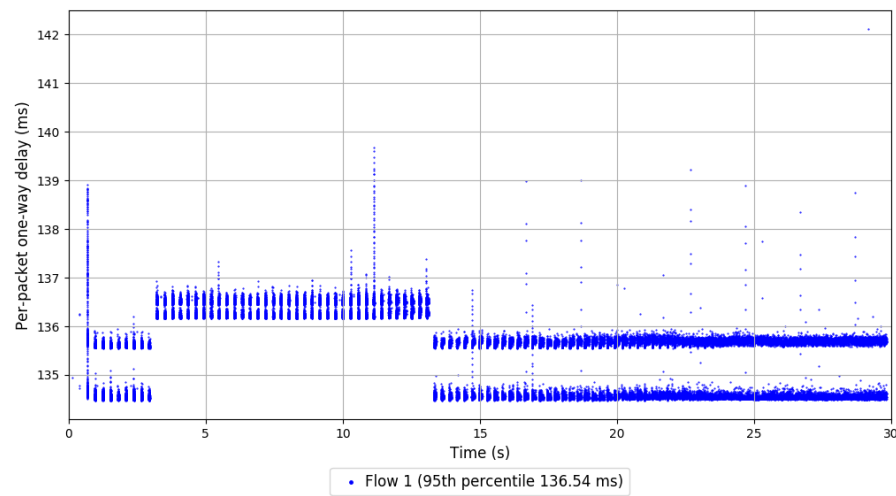
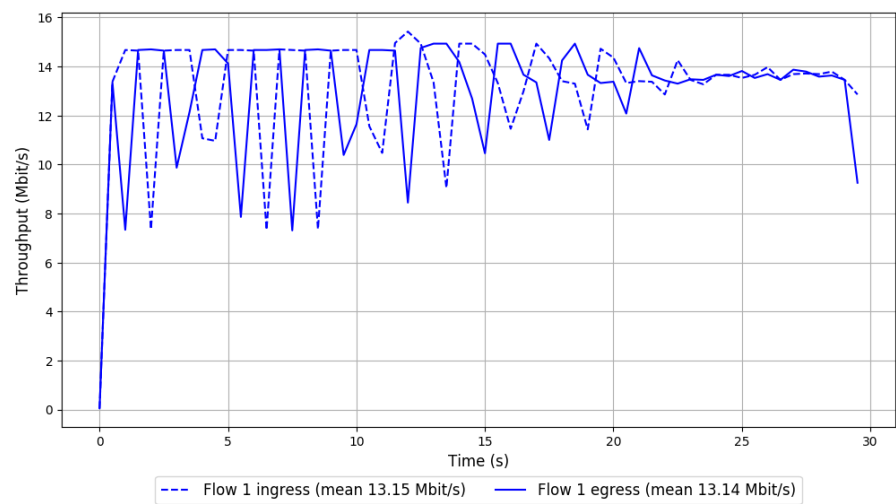


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-03-13 14:48:56
End at: 2018-03-13 14:49:26

# Below is generated by plot.py at 2018-03-13 18:02:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 13.14 Mbit/s
95th percentile per-packet one-way delay: 136.540 ms
Loss rate: 0.95%
-- Flow 1:
Average throughput: 13.14 Mbit/s
95th percentile per-packet one-way delay: 136.540 ms
Loss rate: 0.95%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2018-03-13 12:31:05

End at: 2018-03-13 12:31:35

Below is generated by plot.py at 2018-03-13 18:02:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 67.60 Mbit/s

95th percentile per-packet one-way delay: 144.792 ms

Loss rate: 0.59%

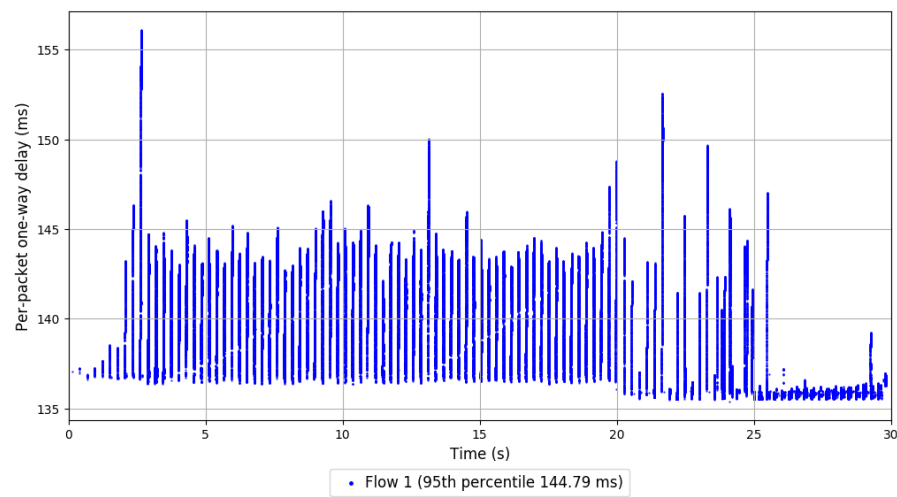
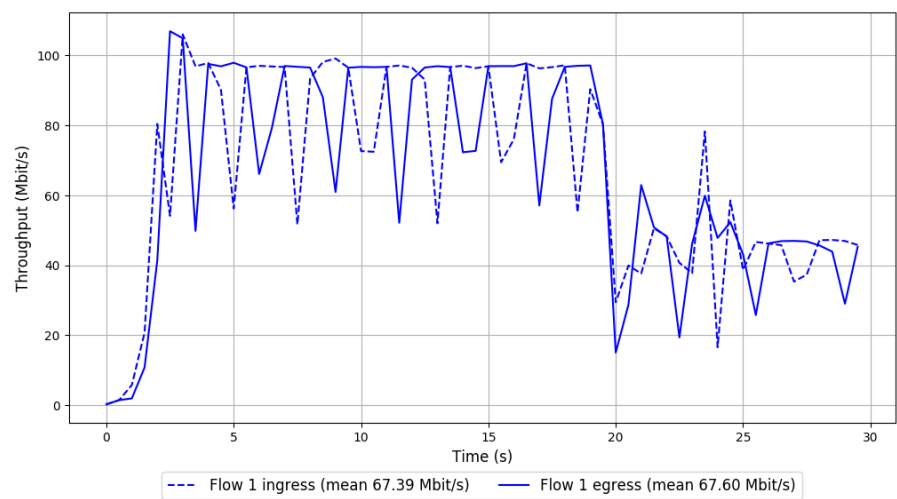
-- Flow 1:

Average throughput: 67.60 Mbit/s

95th percentile per-packet one-way delay: 144.792 ms

Loss rate: 0.59%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-03-13 12:46:22

End at: 2018-03-13 12:46:52

Below is generated by plot.py at 2018-03-13 18:02:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 81.75 Mbit/s

95th percentile per-packet one-way delay: 145.759 ms

Loss rate: 0.99%

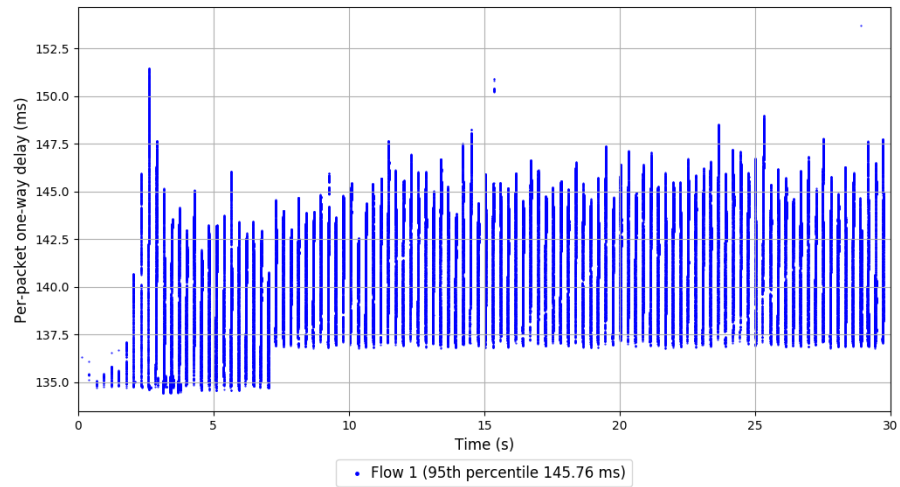
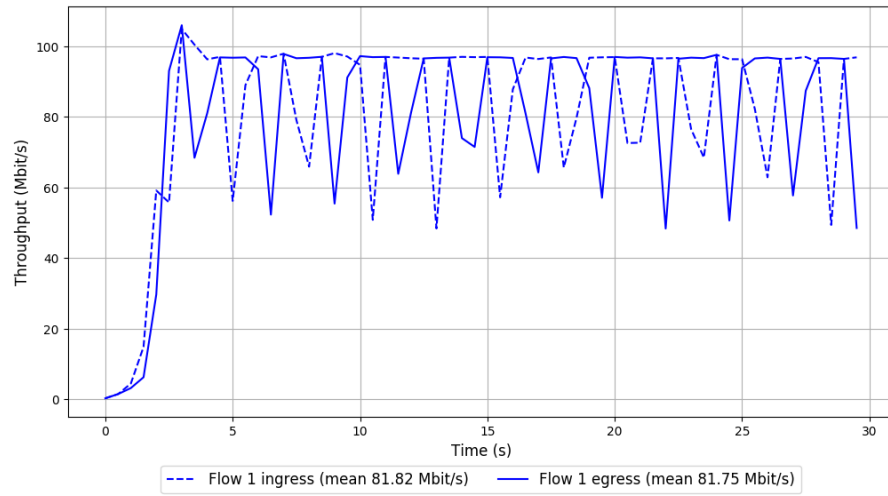
-- Flow 1:

Average throughput: 81.75 Mbit/s

95th percentile per-packet one-way delay: 145.759 ms

Loss rate: 0.99%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-03-13 13:01:58

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

Below is generated by plot.py at 2018-03-13 18:02:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.31 Mbit/s

95th percentile per-packet one-way delay: 144.518 ms

Loss rate: 0.99%

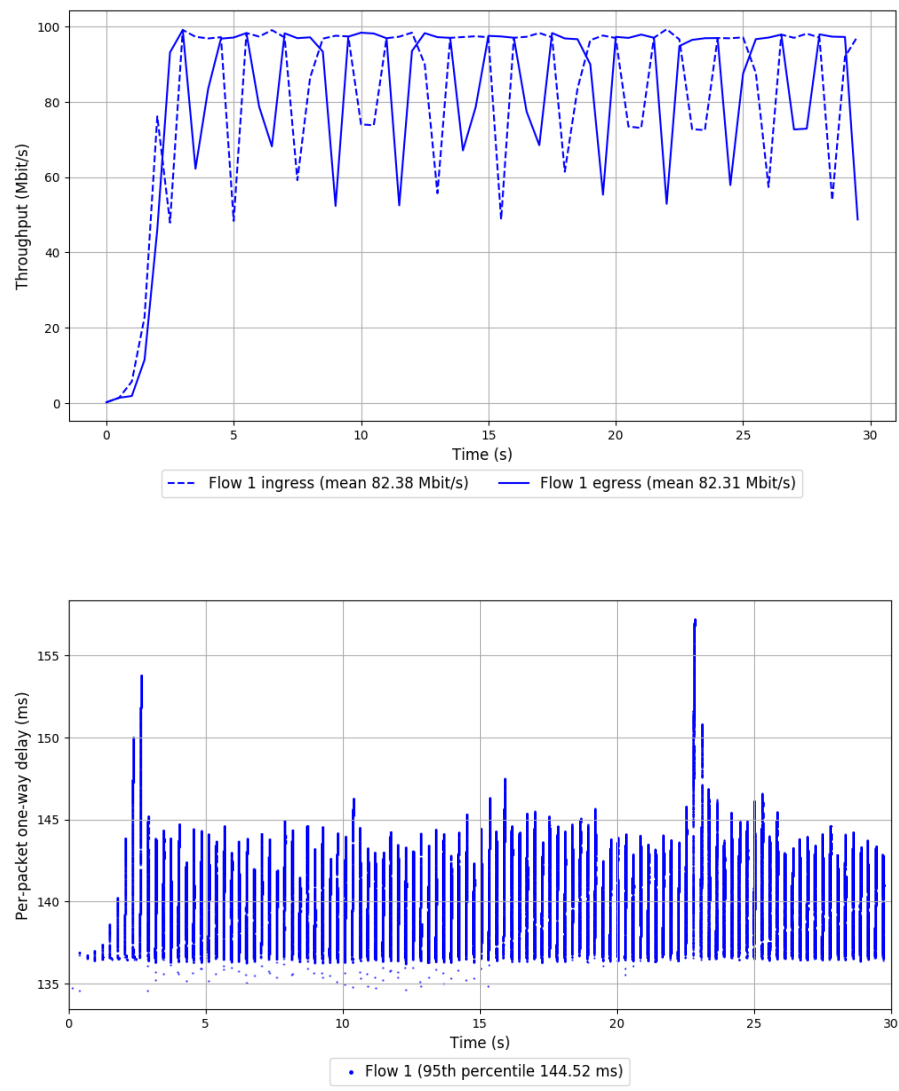
-- Flow 1:

Average throughput: 82.31 Mbit/s

95th percentile per-packet one-way delay: 144.518 ms

Loss rate: 0.99%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-03-13 13:17:56

End at: 2018-03-13 13:18:27

Below is generated by plot.py at 2018-03-13 18:02:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 34.42 Mbit/s

95th percentile per-packet one-way delay: 138.063 ms

Loss rate: 0.97%

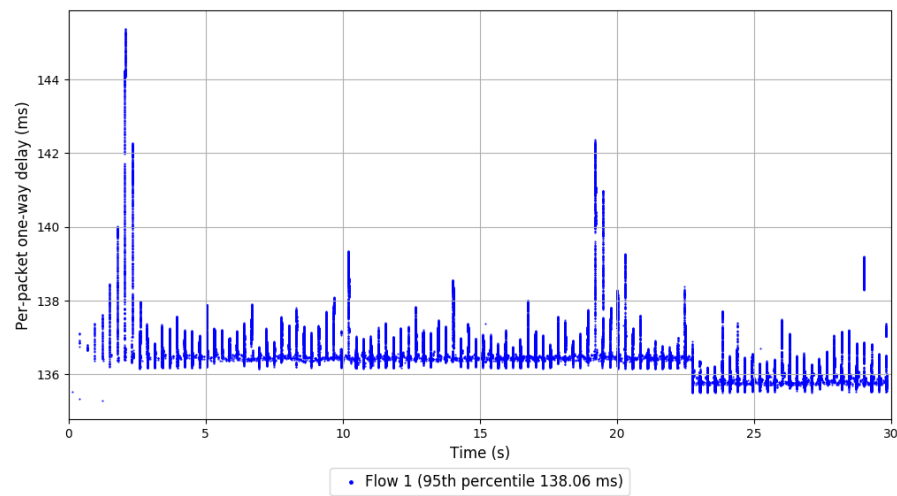
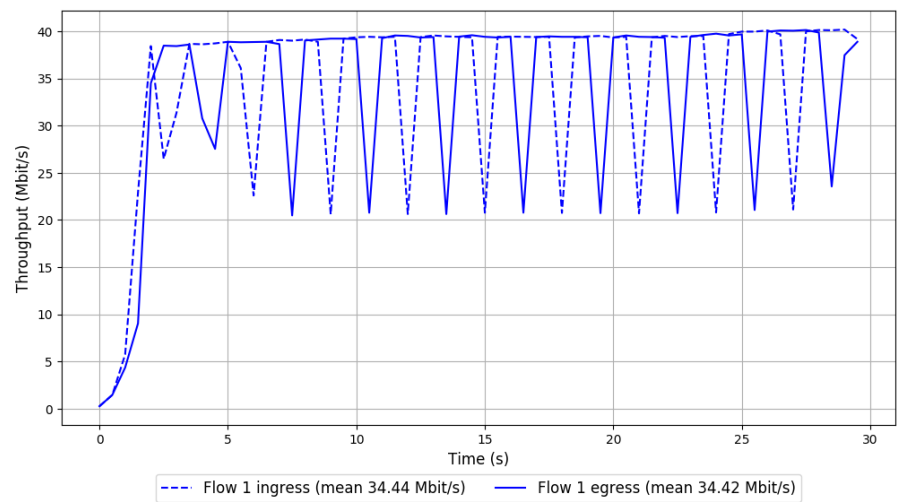
-- Flow 1:

Average throughput: 34.42 Mbit/s

95th percentile per-packet one-way delay: 138.063 ms

Loss rate: 0.97%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-03-13 13:33:40

End at: 2018-03-13 13:34:10

Below is generated by plot.py at 2018-03-13 18:02:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.44 Mbit/s

95th percentile per-packet one-way delay: 144.095 ms

Loss rate: 1.04%

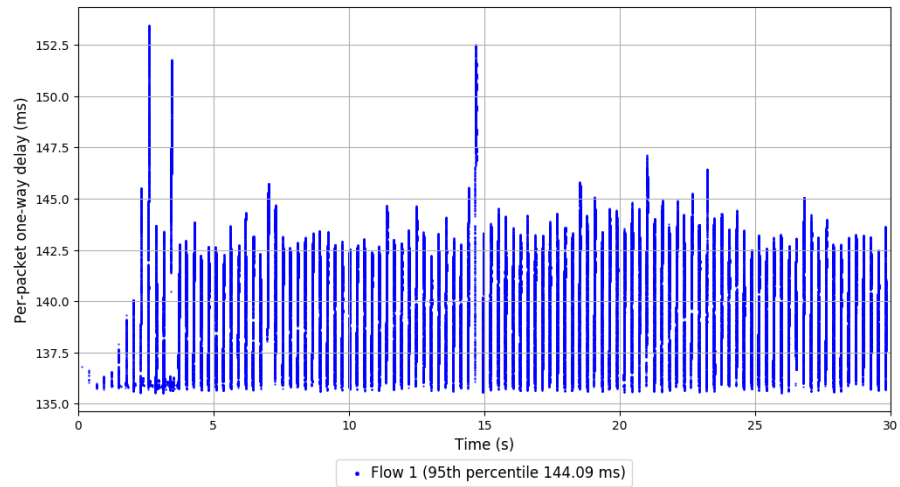
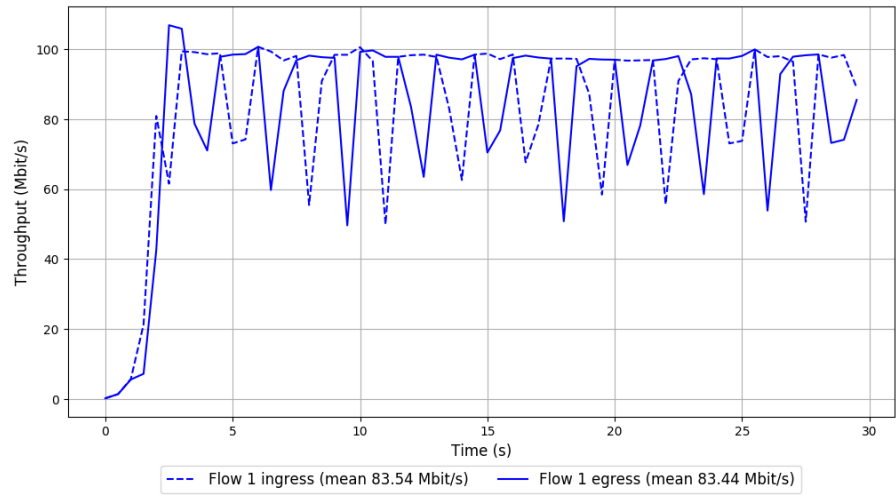
-- Flow 1:

Average throughput: 83.44 Mbit/s

95th percentile per-packet one-way delay: 144.095 ms

Loss rate: 1.04%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-03-13 13:48:56

End at: 2018-03-13 13:49:26

Below is generated by plot.py at 2018-03-13 18:02:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.54 Mbit/s

95th percentile per-packet one-way delay: 145.280 ms

Loss rate: 0.99%

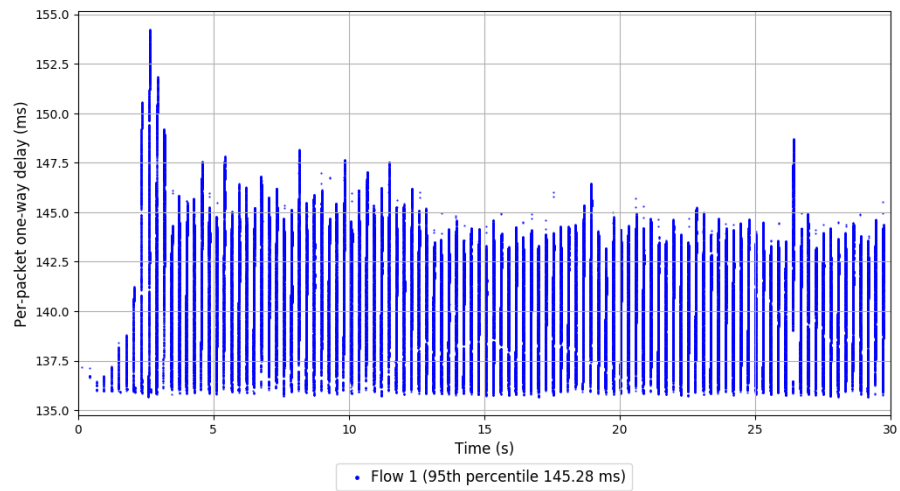
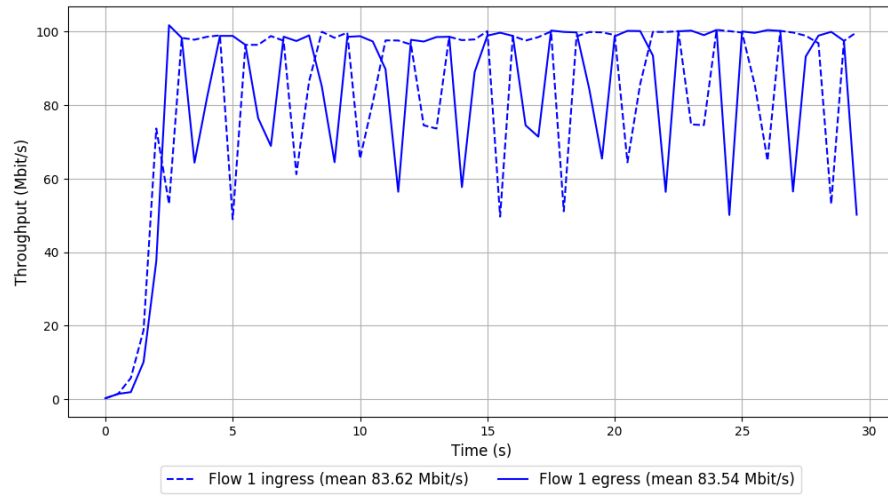
-- Flow 1:

Average throughput: 83.54 Mbit/s

95th percentile per-packet one-way delay: 145.280 ms

Loss rate: 0.99%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-03-13 14:04:19

End at: 2018-03-13 14:04:49

Below is generated by plot.py at 2018-03-13 18:02:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 56.27 Mbit/s

95th percentile per-packet one-way delay: 138.109 ms

Loss rate: 0.97%

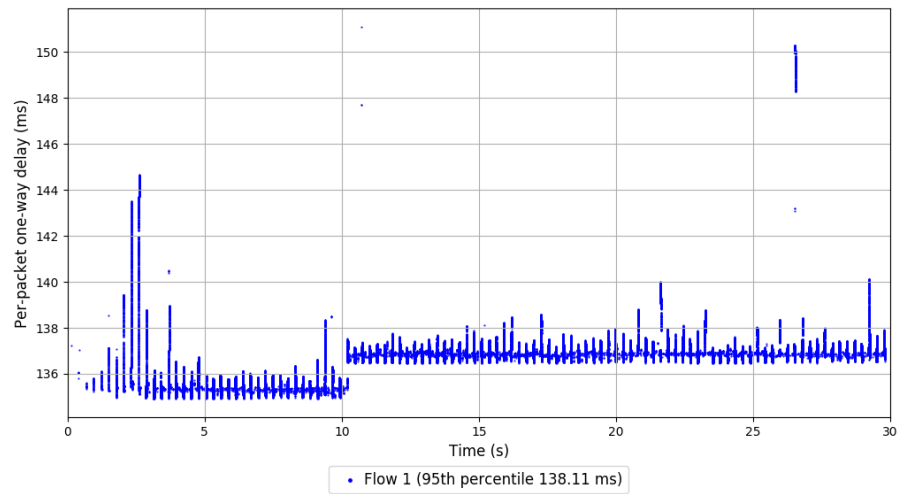
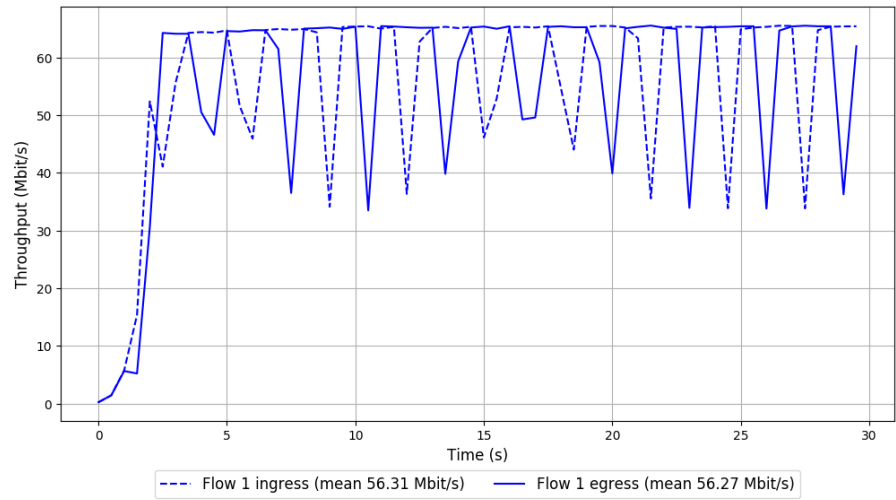
-- Flow 1:

Average throughput: 56.27 Mbit/s

95th percentile per-packet one-way delay: 138.109 ms

Loss rate: 0.97%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-03-13 14:19:31

End at: 2018-03-13 14:20:01

Below is generated by plot.py at 2018-03-13 18:02:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 31.66 Mbit/s

95th percentile per-packet one-way delay: 138.580 ms

Loss rate: 0.95%

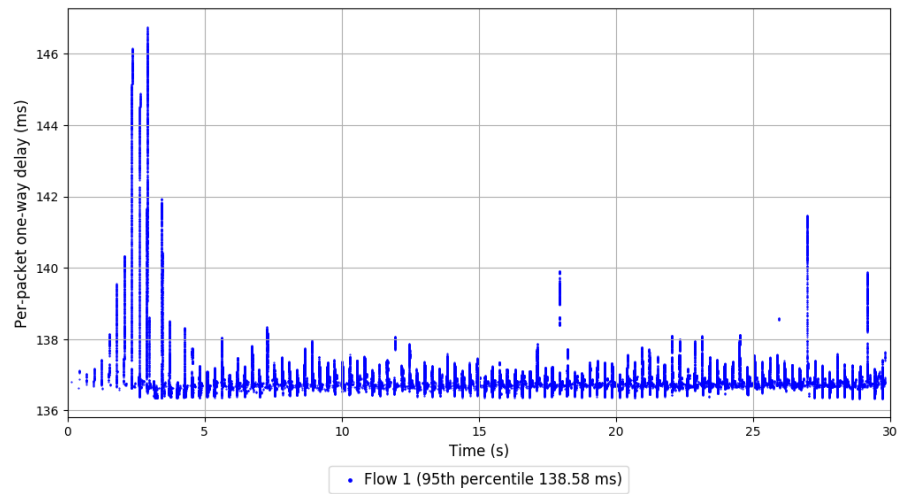
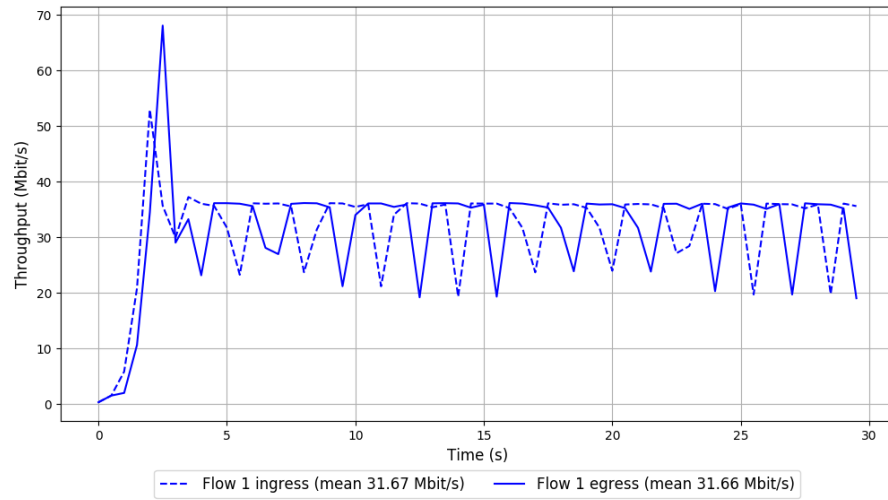
-- Flow 1:

Average throughput: 31.66 Mbit/s

95th percentile per-packet one-way delay: 138.580 ms

Loss rate: 0.95%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-03-13 14:35:00

End at: 2018-03-13 14:35:30

Below is generated by plot.py at 2018-03-13 18:02:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.44 Mbit/s

95th percentile per-packet one-way delay: 144.403 ms

Loss rate: 1.00%

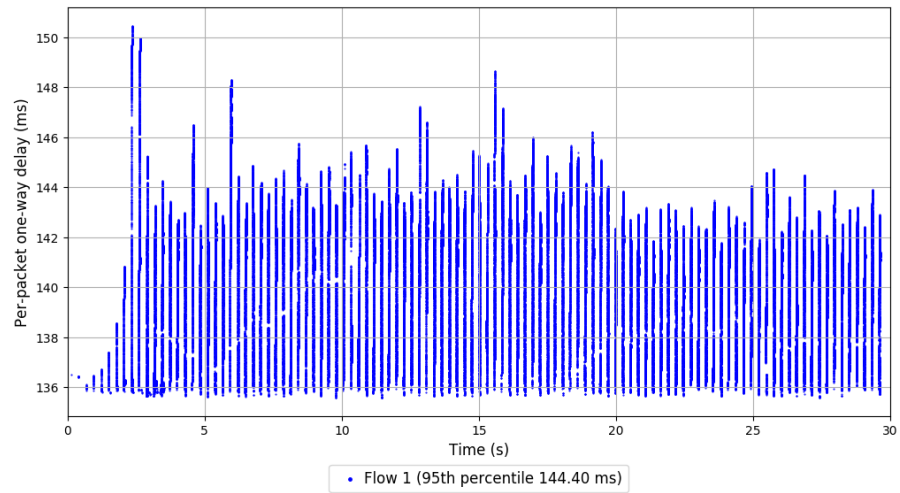
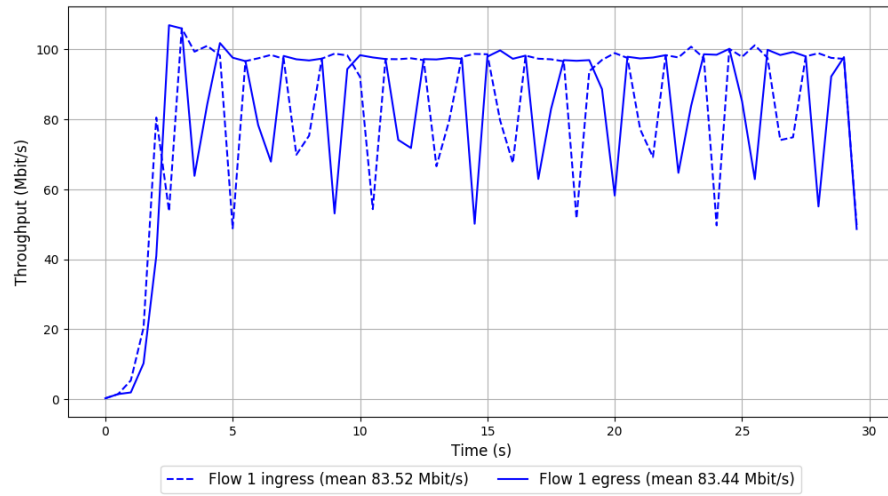
-- Flow 1:

Average throughput: 83.44 Mbit/s

95th percentile per-packet one-way delay: 144.403 ms

Loss rate: 1.00%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-03-13 14:50:33

End at: 2018-03-13 14:51:03

Below is generated by plot.py at 2018-03-13 18:02:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 62.97 Mbit/s

95th percentile per-packet one-way delay: 138.766 ms

Loss rate: 0.98%

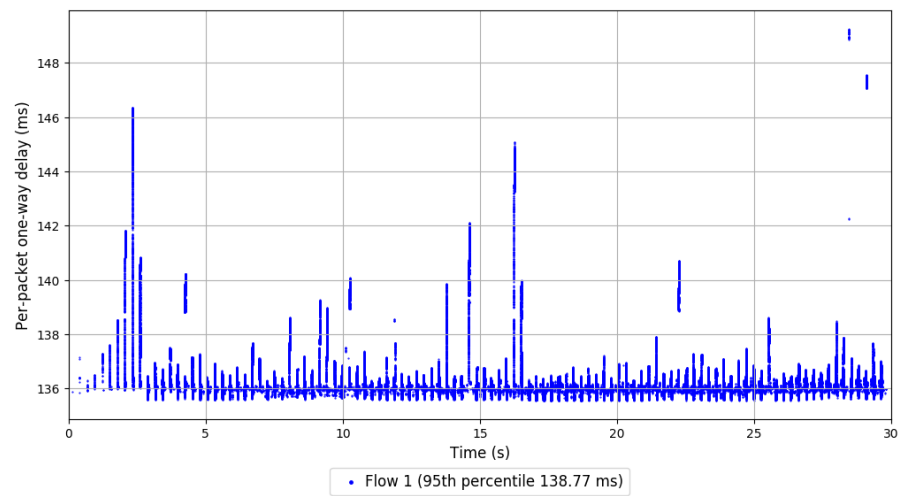
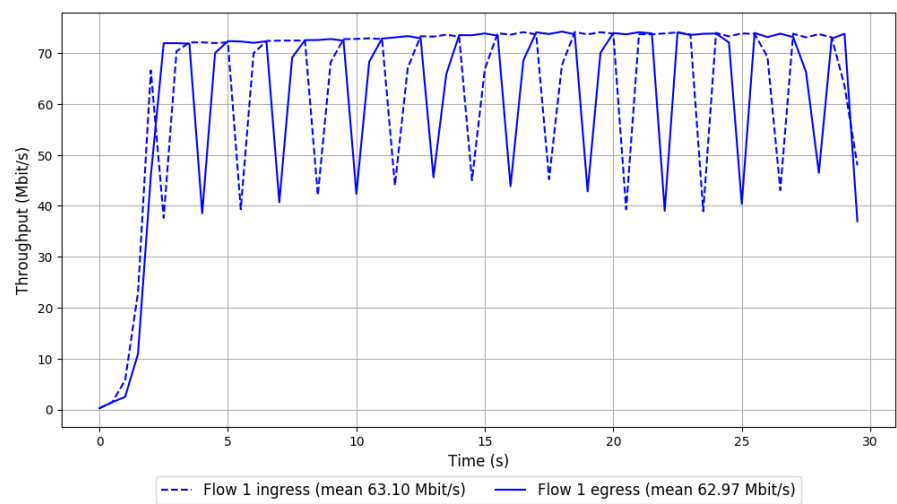
-- Flow 1:

Average throughput: 62.97 Mbit/s

95th percentile per-packet one-way delay: 138.766 ms

Loss rate: 0.98%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-03-13 12:22:01

End at: 2018-03-13 12:22:31

Below is generated by plot.py at 2018-03-13 18:04:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 200.89 Mbit/s

95th percentile per-packet one-way delay: 182.178 ms

Loss rate: 1.35%

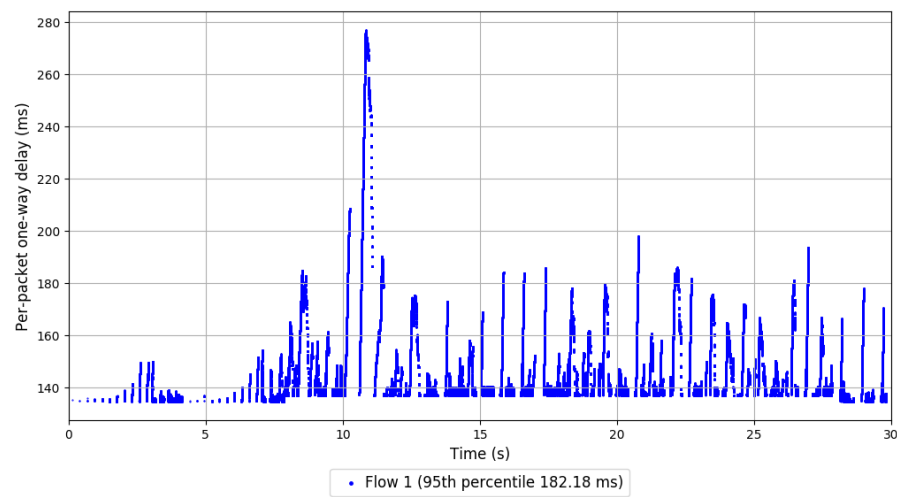
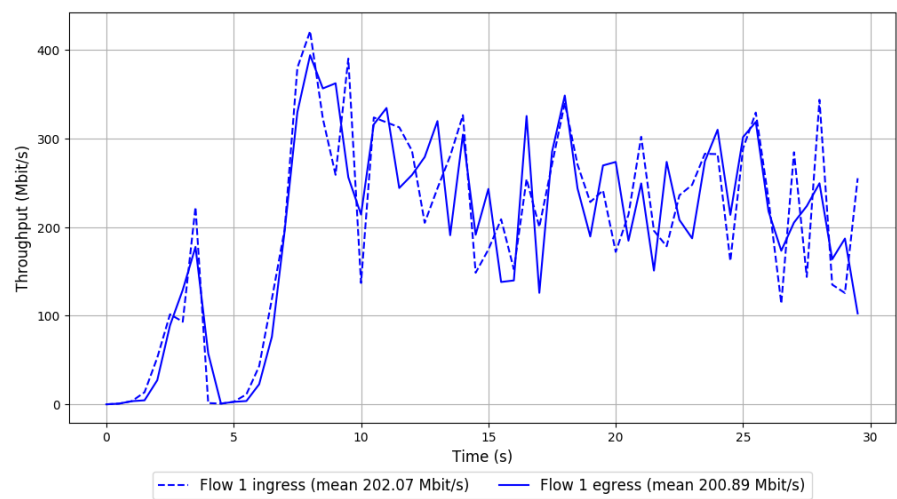
-- Flow 1:

Average throughput: 200.89 Mbit/s

95th percentile per-packet one-way delay: 182.178 ms

Loss rate: 1.35%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-03-13 12:37:45

End at: 2018-03-13 12:38:15

Below is generated by plot.py at 2018-03-13 18:04:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 126.05 Mbit/s

95th percentile per-packet one-way delay: 187.106 ms

Loss rate: 1.77%

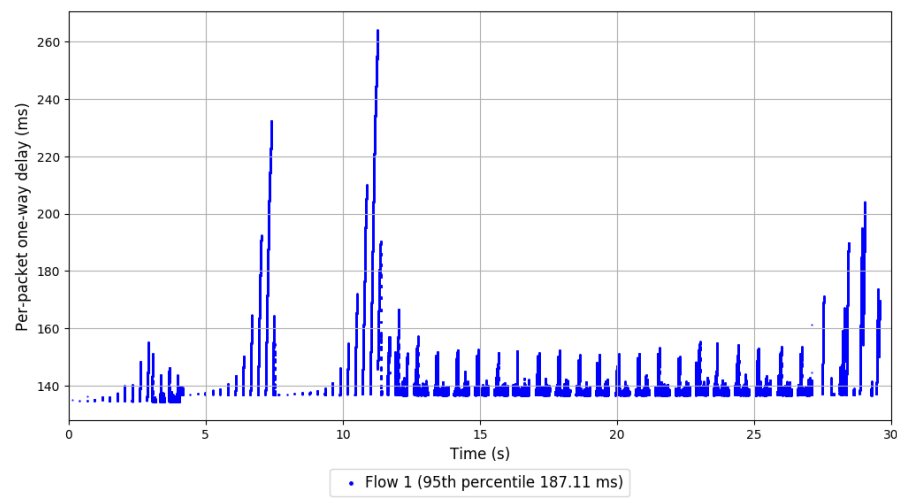
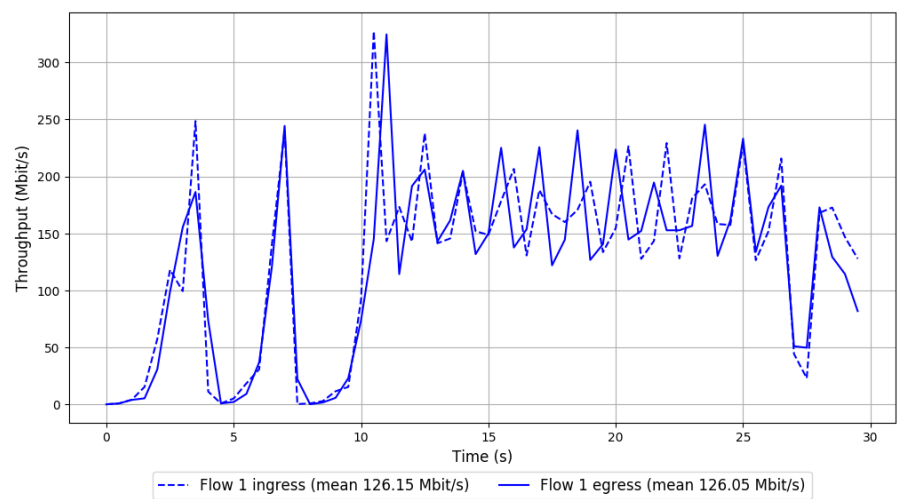
-- Flow 1:

Average throughput: 126.05 Mbit/s

95th percentile per-packet one-way delay: 187.106 ms

Loss rate: 1.77%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-03-13 12:53:02

End at: 2018-03-13 12:53:32

Below is generated by plot.py at 2018-03-13 18:05:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 189.55 Mbit/s

95th percentile per-packet one-way delay: 222.803 ms

Loss rate: 3.52%

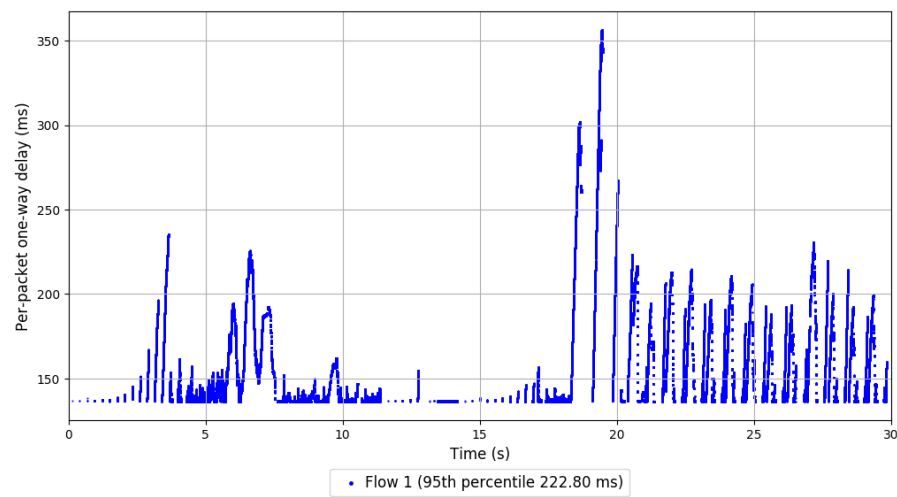
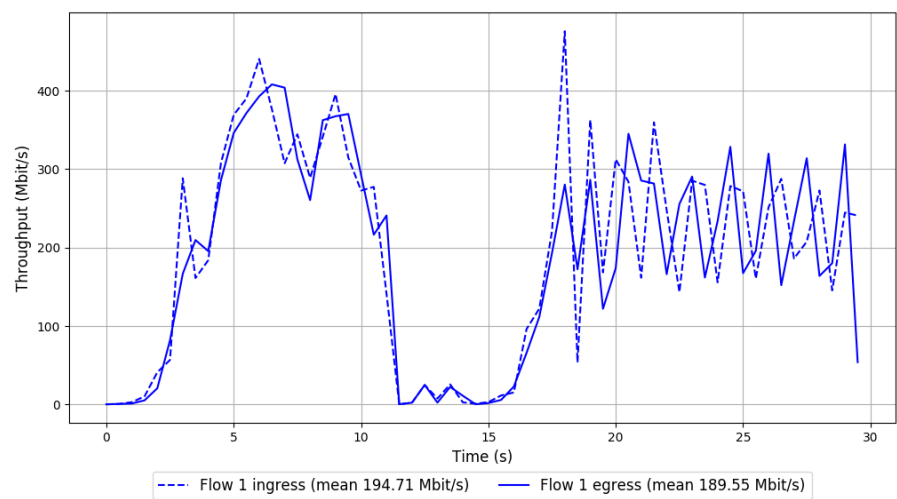
-- Flow 1:

Average throughput: 189.55 Mbit/s

95th percentile per-packet one-way delay: 222.803 ms

Loss rate: 3.52%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-03-13 13:08:42

End at: 2018-03-13 13:09:12

Below is generated by plot.py at 2018-03-13 18:05:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 135.98 Mbit/s

95th percentile per-packet one-way delay: 230.045 ms

Loss rate: 3.18%

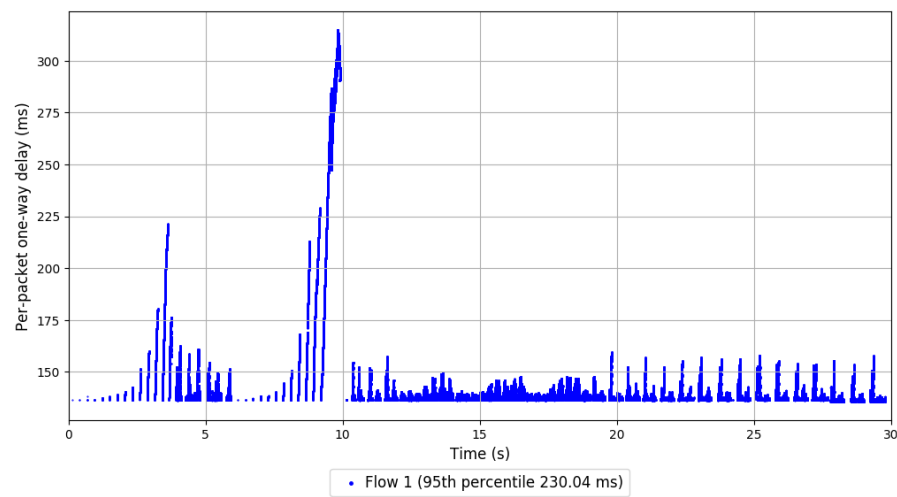
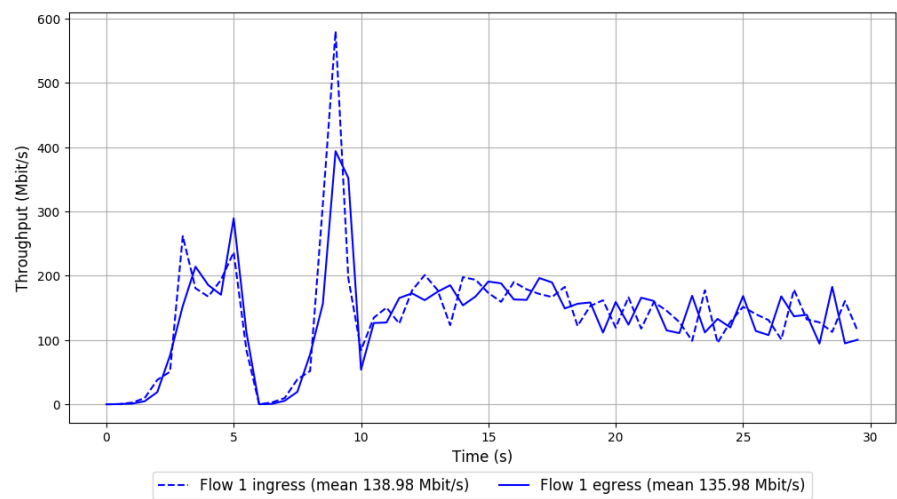
-- Flow 1:

Average throughput: 135.98 Mbit/s

95th percentile per-packet one-way delay: 230.045 ms

Loss rate: 3.18%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-03-13 13:24:36

End at: 2018-03-13 13:25:06

Below is generated by plot.py at 2018-03-13 18:05:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 110.84 Mbit/s

95th percentile per-packet one-way delay: 187.223 ms

Loss rate: 2.44%

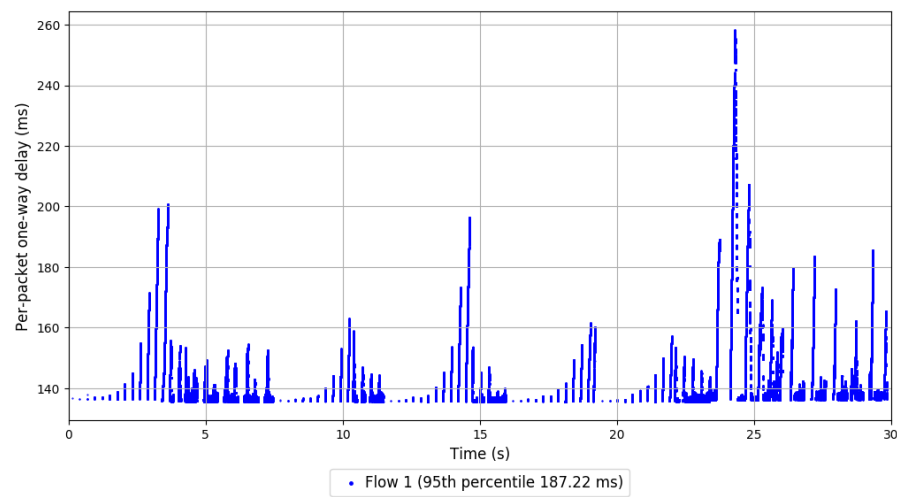
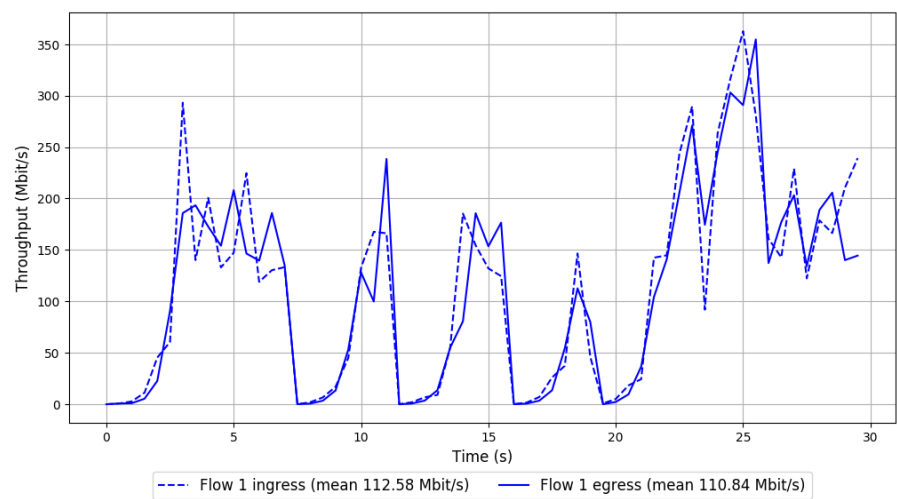
-- Flow 1:

Average throughput: 110.84 Mbit/s

95th percentile per-packet one-way delay: 187.223 ms

Loss rate: 2.44%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-03-13 13:40:09

End at: 2018-03-13 13:40:39

Below is generated by plot.py at 2018-03-13 18:05:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 98.02 Mbit/s

95th percentile per-packet one-way delay: 201.121 ms

Loss rate: 0.01%

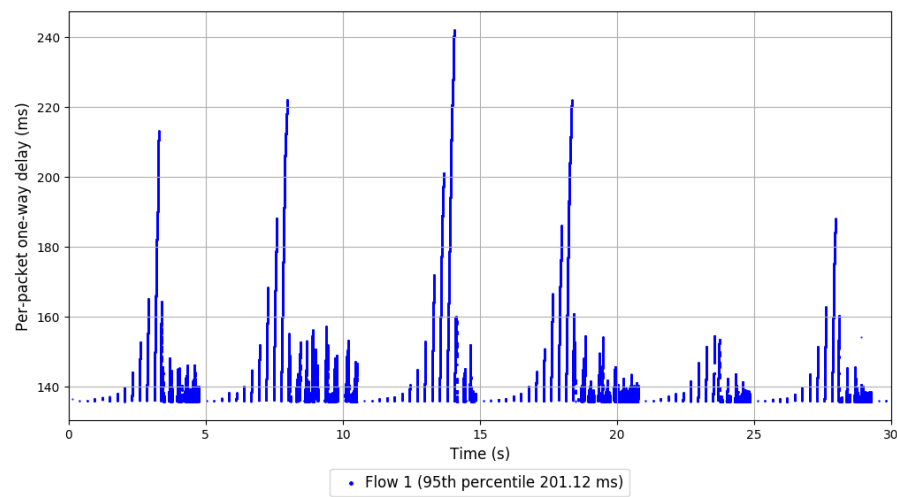
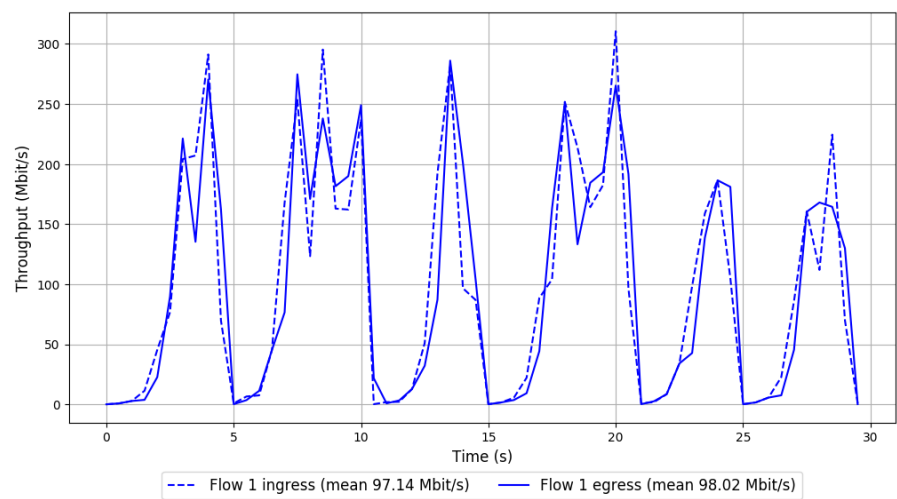
-- Flow 1:

Average throughput: 98.02 Mbit/s

95th percentile per-packet one-way delay: 201.121 ms

Loss rate: 0.01%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-03-13 13:55:25

End at: 2018-03-13 13:55:55

Below is generated by plot.py at 2018-03-13 18:05:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 140.45 Mbit/s

95th percentile per-packet one-way delay: 161.801 ms

Loss rate: 0.43%

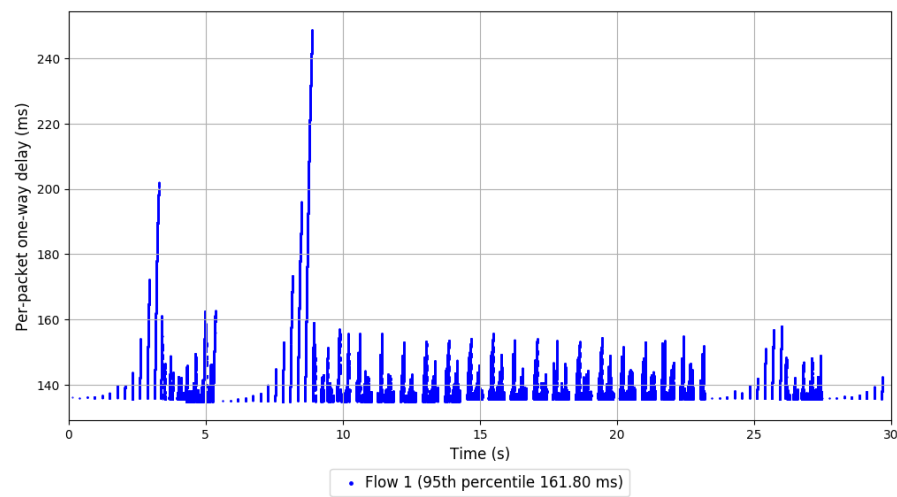
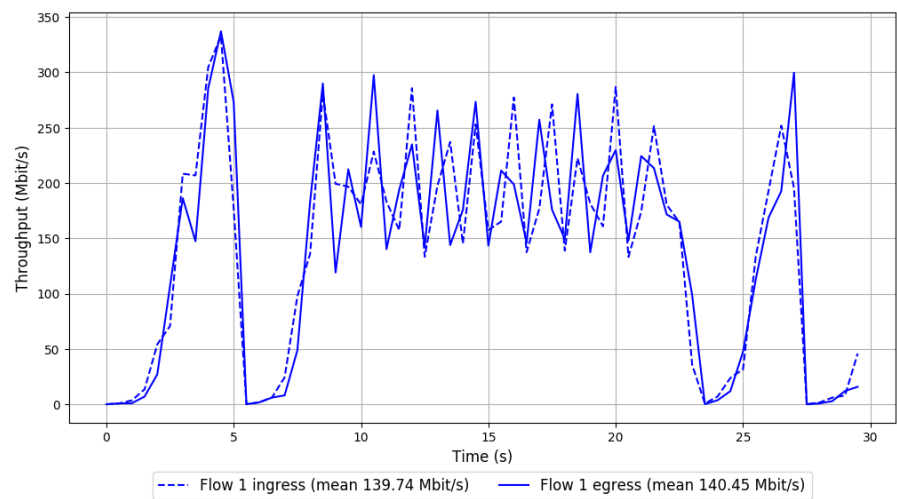
-- Flow 1:

Average throughput: 140.45 Mbit/s

95th percentile per-packet one-way delay: 161.801 ms

Loss rate: 0.43%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-03-13 14:10:55

End at: 2018-03-13 14:11:25

Below is generated by plot.py at 2018-03-13 18:05:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 118.40 Mbit/s

95th percentile per-packet one-way delay: 175.753 ms

Loss rate: 2.46%

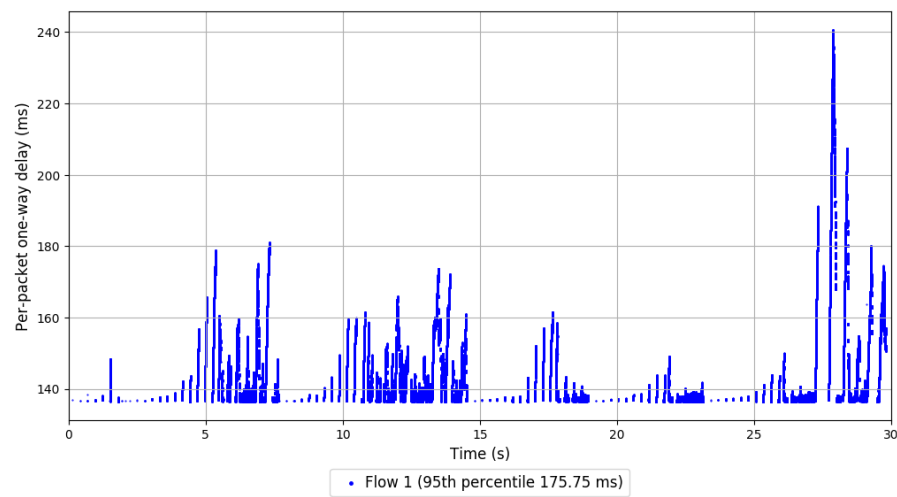
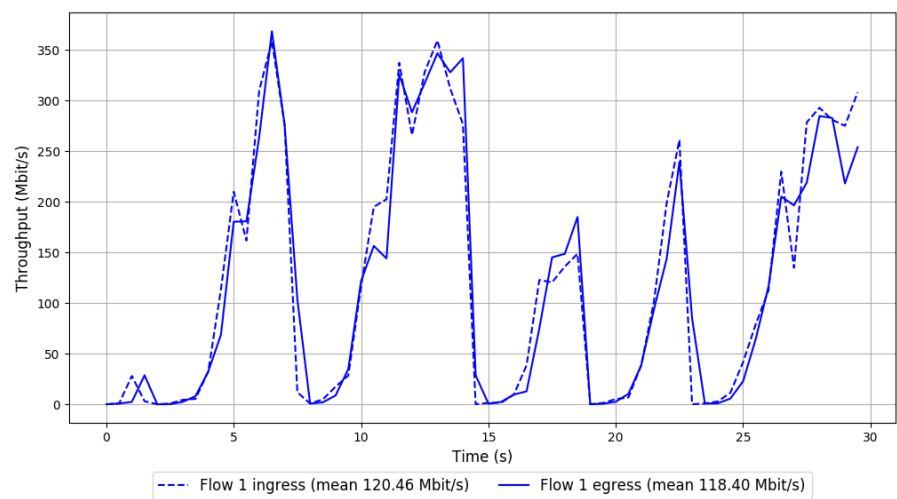
-- Flow 1:

Average throughput: 118.40 Mbit/s

95th percentile per-packet one-way delay: 175.753 ms

Loss rate: 2.46%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-03-13 14:26:11

End at: 2018-03-13 14:26:41

Below is generated by plot.py at 2018-03-13 18:08:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 223.96 Mbit/s

95th percentile per-packet one-way delay: 237.873 ms

Loss rate: 1.95%

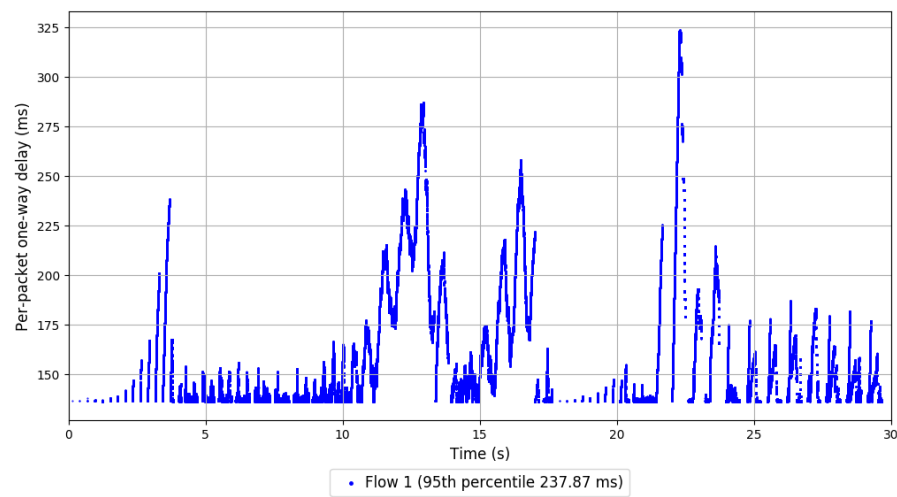
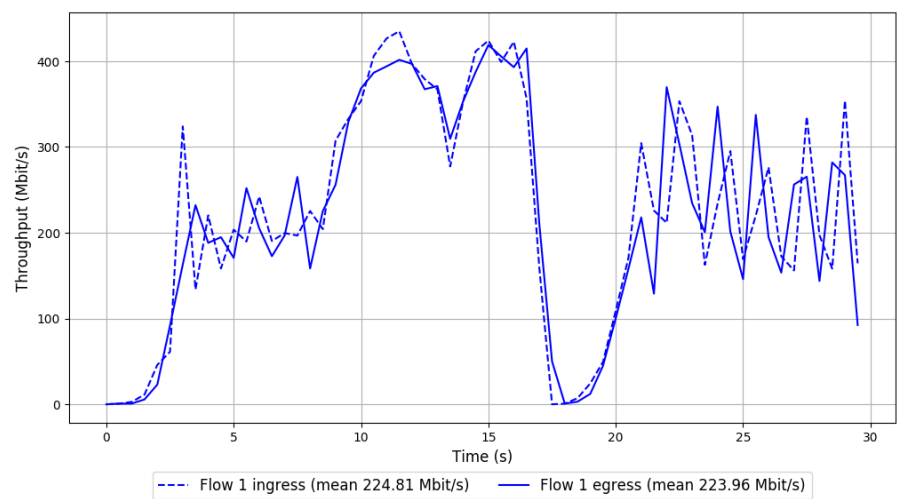
-- Flow 1:

Average throughput: 223.96 Mbit/s

95th percentile per-packet one-way delay: 237.873 ms

Loss rate: 1.95%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-03-13 14:41:47

End at: 2018-03-13 14:42:17

Below is generated by plot.py at 2018-03-13 18:08:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 142.83 Mbit/s

95th percentile per-packet one-way delay: 202.088 ms

Loss rate: 2.13%

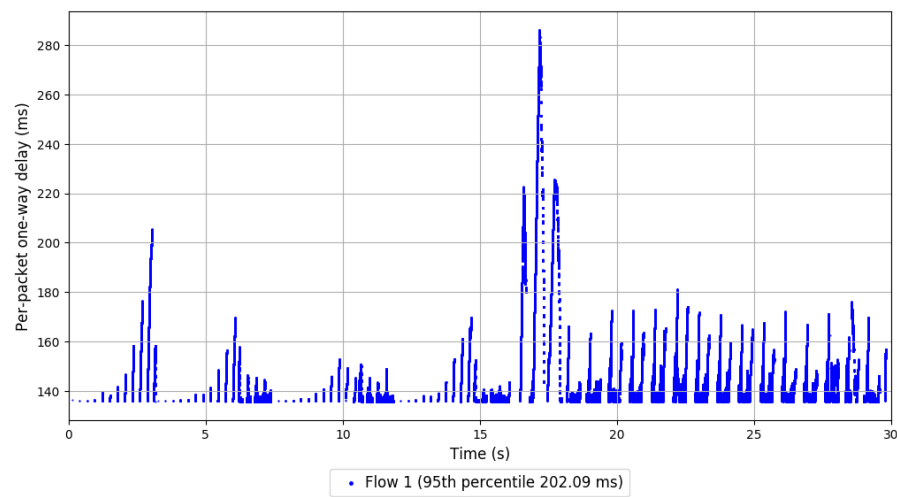
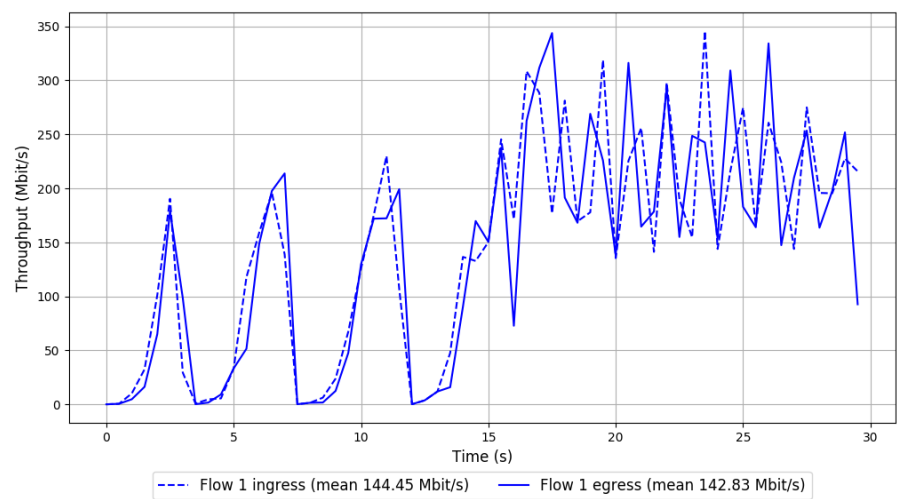
-- Flow 1:

Average throughput: 142.83 Mbit/s

95th percentile per-packet one-way delay: 202.088 ms

Loss rate: 2.13%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2018-03-13 12:24:36

End at: 2018-03-13 12:25:06

Below is generated by plot.py at 2018-03-13 18:08:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 52.40 Mbit/s

95th percentile per-packet one-way delay: 136.974 ms

Loss rate: 1.03%

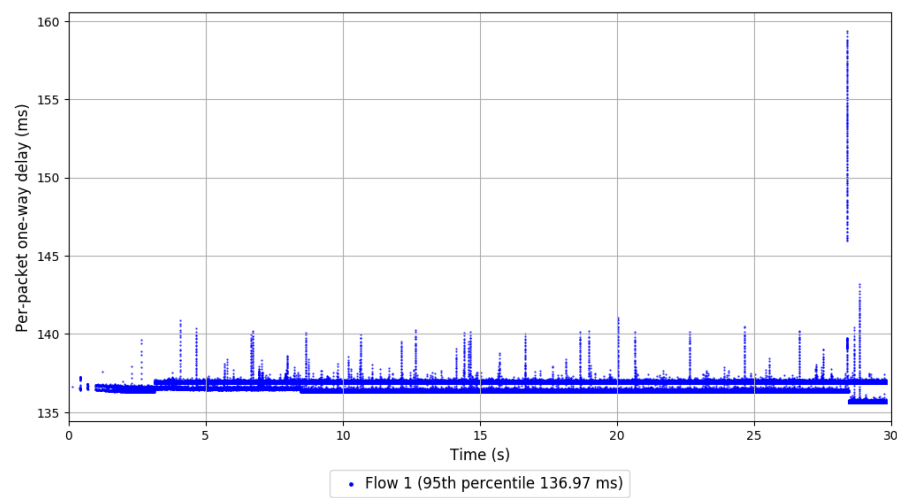
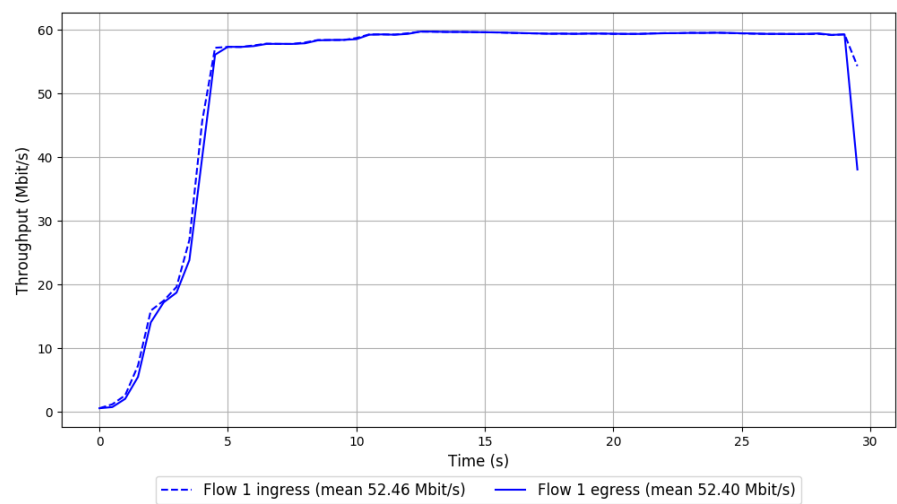
-- Flow 1:

Average throughput: 52.40 Mbit/s

95th percentile per-packet one-way delay: 136.974 ms

Loss rate: 1.03%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-03-13 12:40:14

End at: 2018-03-13 12:40:44

Below is generated by plot.py at 2018-03-13 18:08:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.76 Mbit/s

95th percentile per-packet one-way delay: 136.760 ms

Loss rate: 0.71%

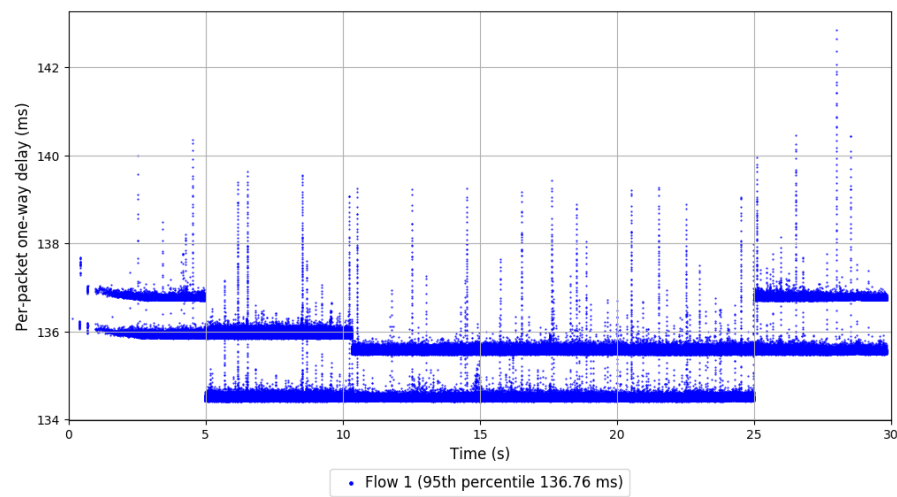
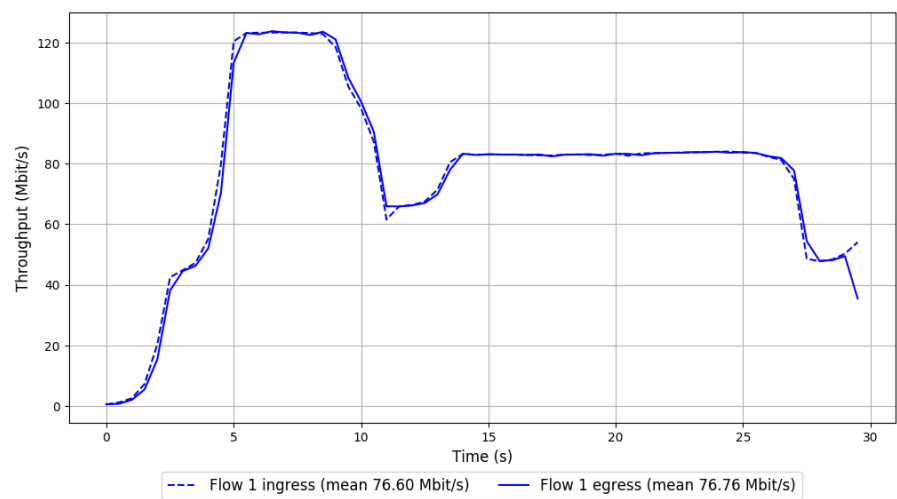
-- Flow 1:

Average throughput: 76.76 Mbit/s

95th percentile per-packet one-way delay: 136.760 ms

Loss rate: 0.71%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-03-13 12:55:47

End at: 2018-03-13 12:56:17

Below is generated by plot.py at 2018-03-13 18:08:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.22 Mbit/s

95th percentile per-packet one-way delay: 136.289 ms

Loss rate: 0.25%

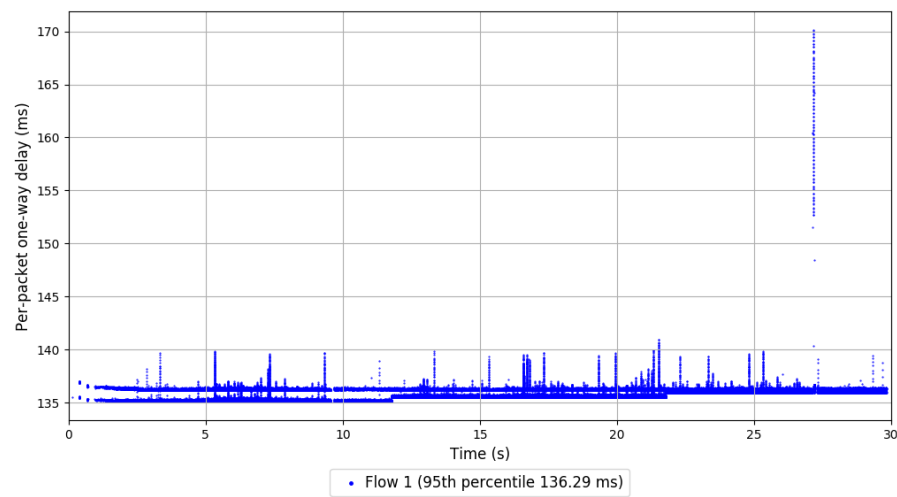
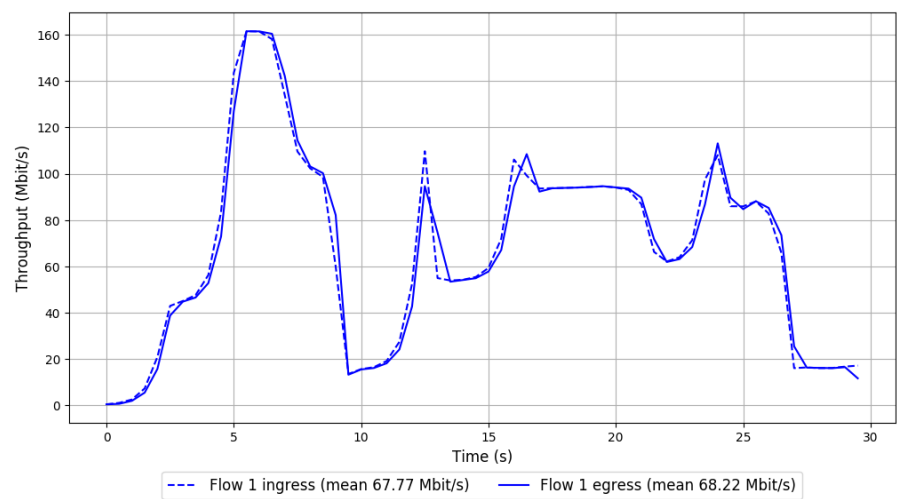
-- Flow 1:

Average throughput: 68.22 Mbit/s

95th percentile per-packet one-way delay: 136.289 ms

Loss rate: 0.25%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-03-13 13:11:23

End at: 2018-03-13 13:11:53

Below is generated by plot.py at 2018-03-13 18:08:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.44 Mbit/s

95th percentile per-packet one-way delay: 136.284 ms

Loss rate: 0.32%

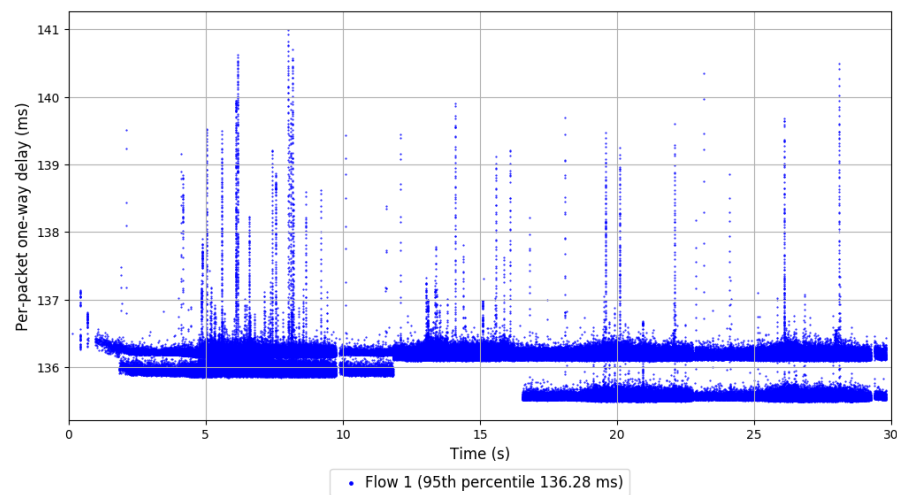
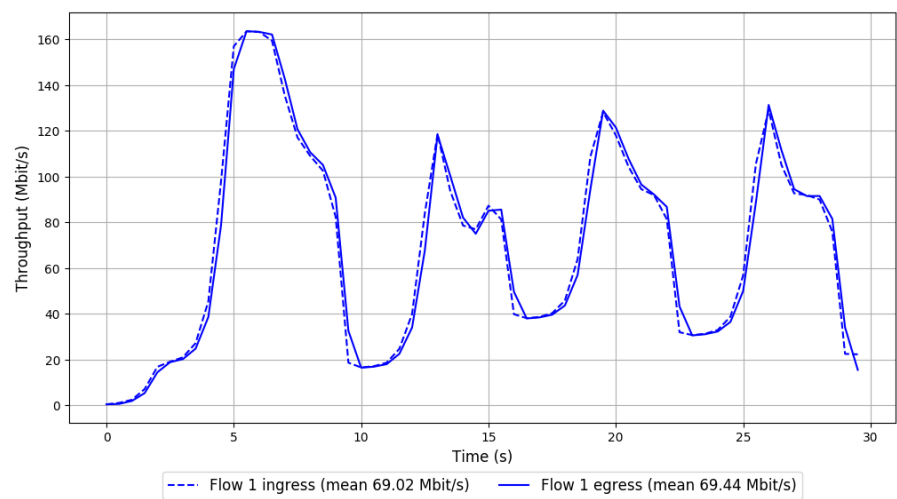
-- Flow 1:

Average throughput: 69.44 Mbit/s

95th percentile per-packet one-way delay: 136.284 ms

Loss rate: 0.32%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-03-13 13:27:11

End at: 2018-03-13 13:27:41

Below is generated by plot.py at 2018-03-13 18:08:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 48.74 Mbit/s

95th percentile per-packet one-way delay: 136.669 ms

Loss rate: 2.93%

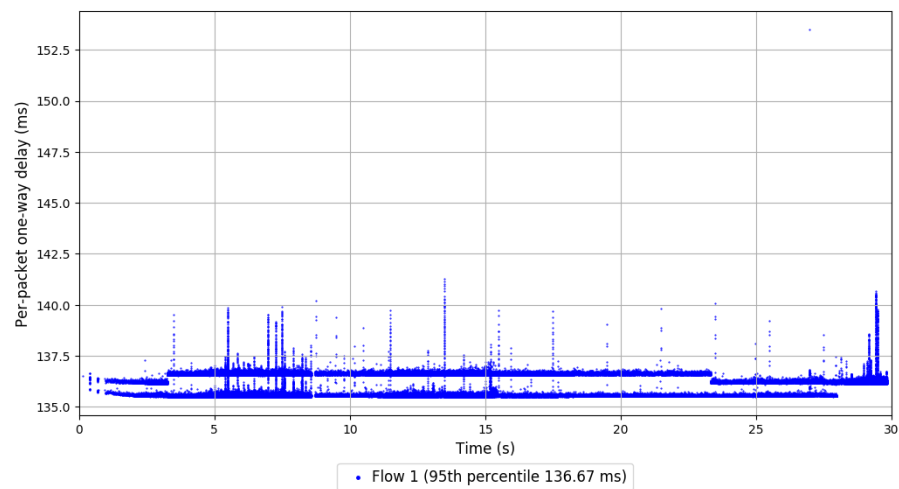
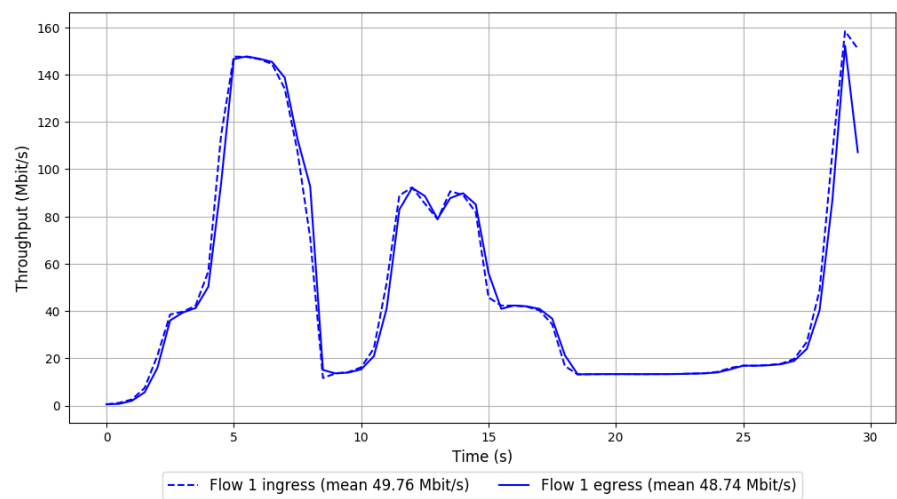
-- Flow 1:

Average throughput: 48.74 Mbit/s

95th percentile per-packet one-way delay: 136.669 ms

Loss rate: 2.93%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-03-13 13:42:47

End at: 2018-03-13 13:43:17

Below is generated by plot.py at 2018-03-13 18:08:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.48 Mbit/s

95th percentile per-packet one-way delay: 136.584 ms

Loss rate: 0.83%

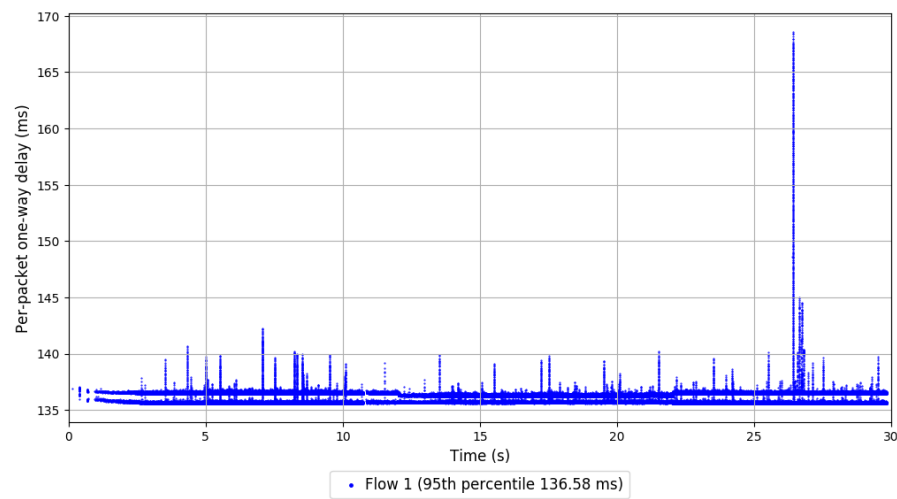
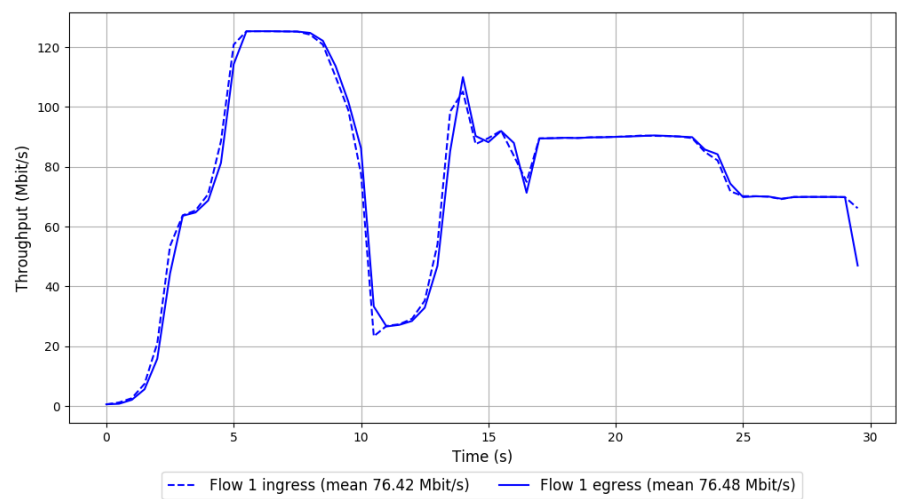
-- Flow 1:

Average throughput: 76.48 Mbit/s

95th percentile per-packet one-way delay: 136.584 ms

Loss rate: 0.83%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-03-13 13:58:07

End at: 2018-03-13 13:58:37

Below is generated by plot.py at 2018-03-13 18:09:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.34 Mbit/s

95th percentile per-packet one-way delay: 136.681 ms

Loss rate: 0.93%

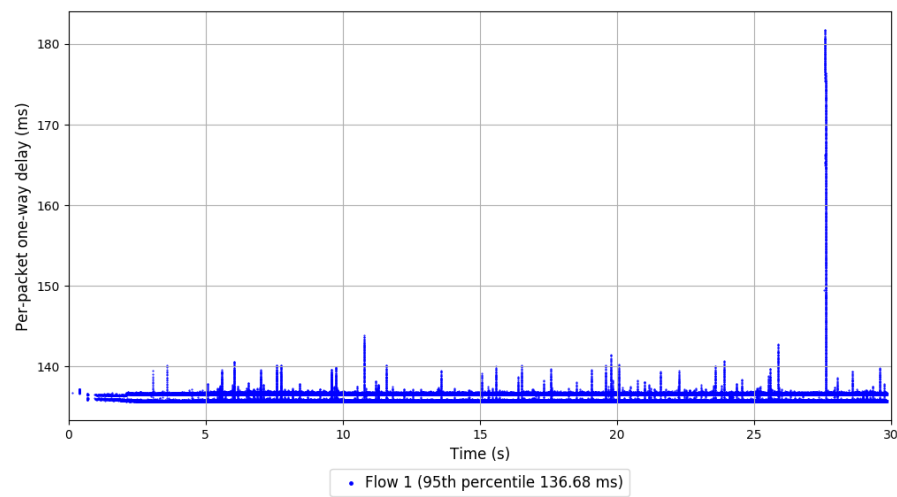
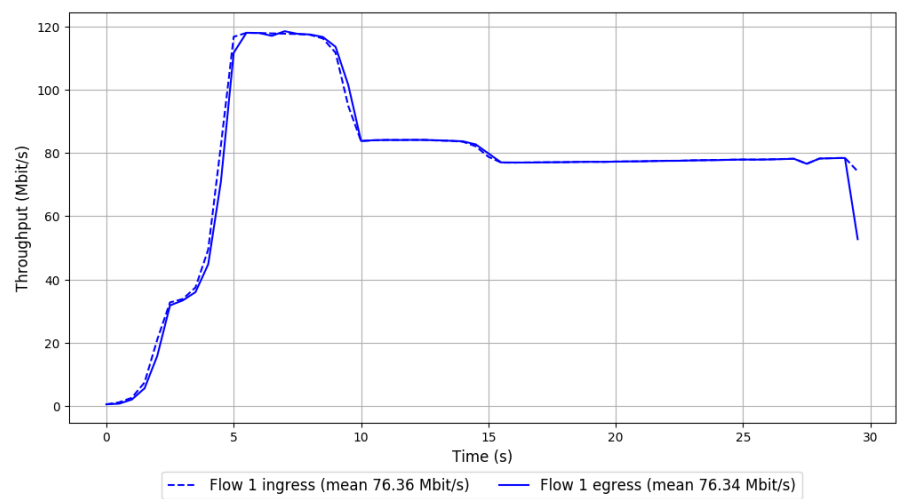
-- Flow 1:

Average throughput: 76.34 Mbit/s

95th percentile per-packet one-way delay: 136.681 ms

Loss rate: 0.93%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-03-13 14:13:22

End at: 2018-03-13 14:13:52

Below is generated by plot.py at 2018-03-13 18:09:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.13 Mbit/s

95th percentile per-packet one-way delay: 136.597 ms

Loss rate: 0.74%

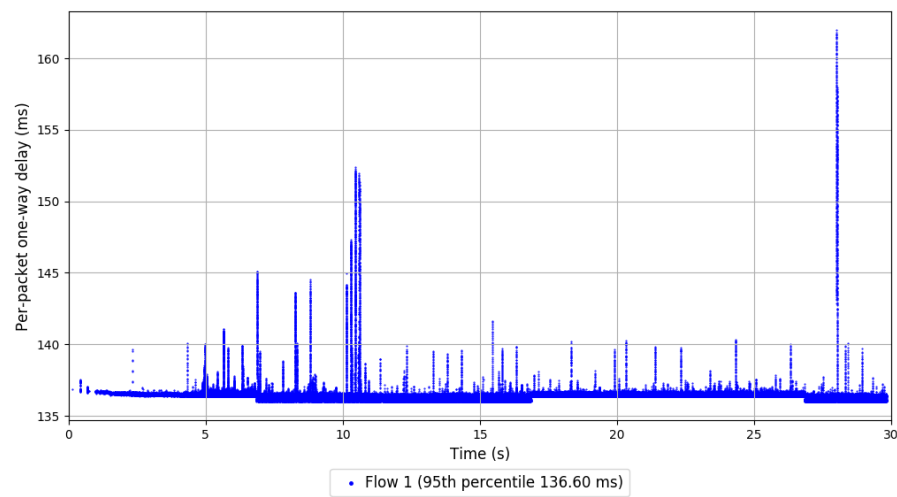
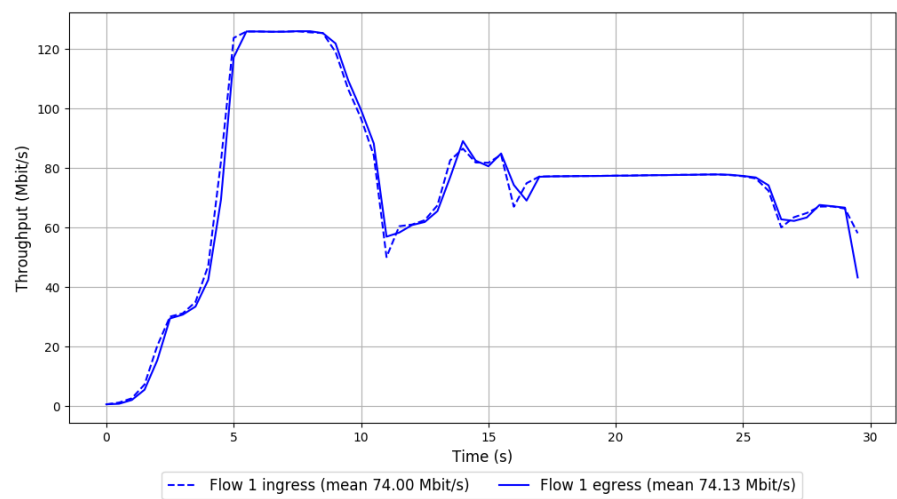
-- Flow 1:

Average throughput: 74.13 Mbit/s

95th percentile per-packet one-way delay: 136.597 ms

Loss rate: 0.74%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-03-13 14:28:47

End at: 2018-03-13 14:29:17

Below is generated by plot.py at 2018-03-13 18:10:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.80 Mbit/s

95th percentile per-packet one-way delay: 136.411 ms

Loss rate: 0.98%

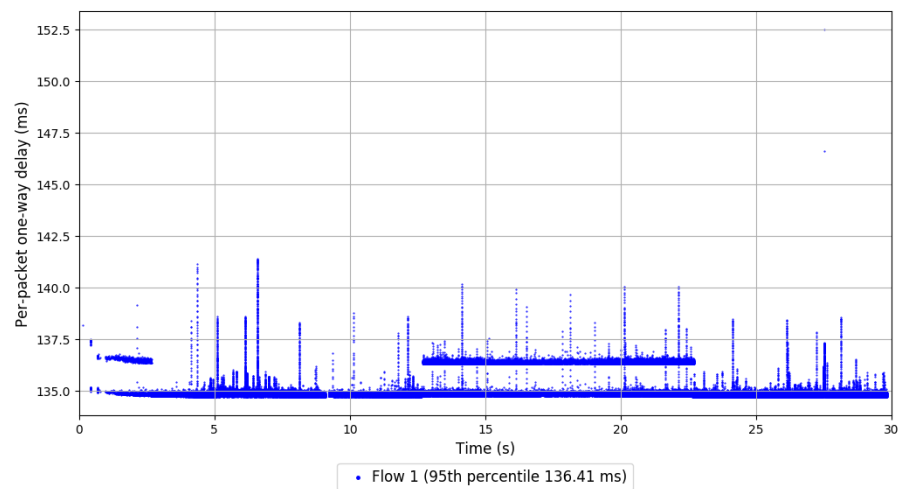
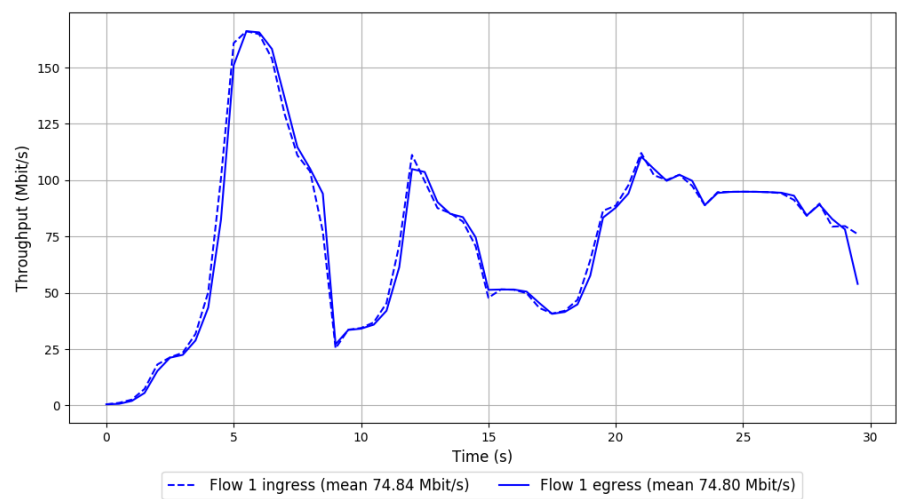
-- Flow 1:

Average throughput: 74.80 Mbit/s

95th percentile per-packet one-way delay: 136.411 ms

Loss rate: 0.98%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-03-13 14:44:25

End at: 2018-03-13 14:44:55

Below is generated by plot.py at 2018-03-13 18:10:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.37 Mbit/s

95th percentile per-packet one-way delay: 136.540 ms

Loss rate: 0.96%

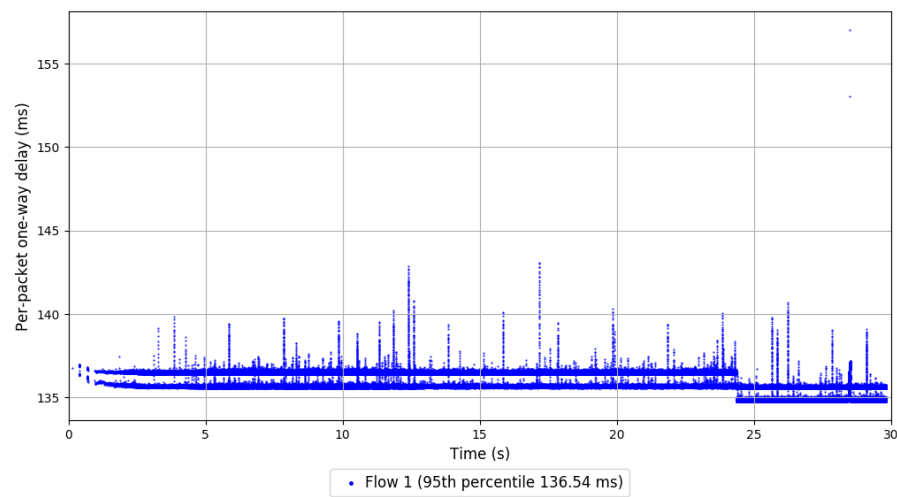
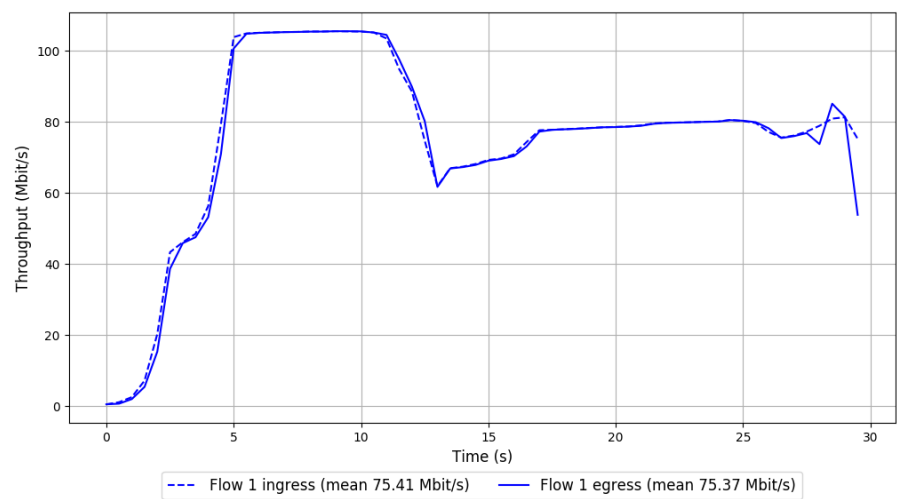
-- Flow 1:

Average throughput: 75.37 Mbit/s

95th percentile per-packet one-way delay: 136.540 ms

Loss rate: 0.96%

Run 10: Report of Copa — Data Link



Run 1: Statistics of FillP

Start at: 2018-03-13 12:25:24

End at: 2018-03-13 12:25:54

Below is generated by plot.py at 2018-03-13 18:25:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 736.86 Mbit/s

95th percentile per-packet one-way delay: 231.844 ms

Loss rate: 12.19%

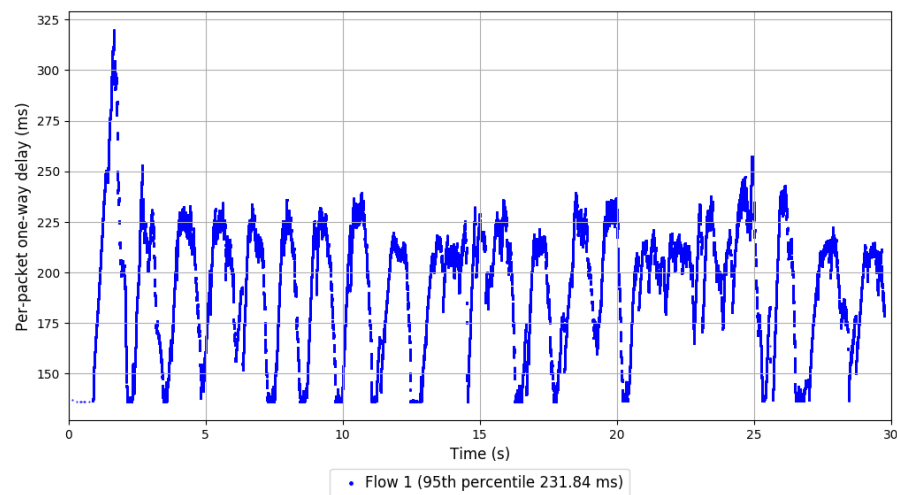
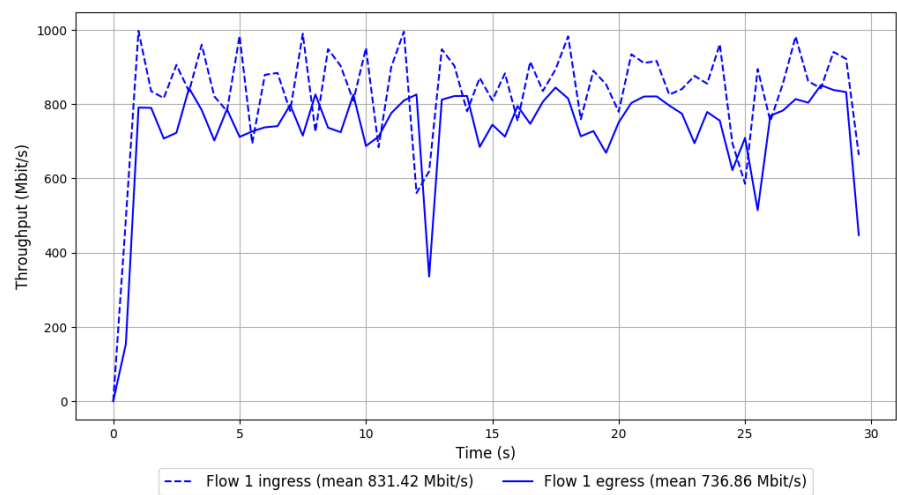
-- Flow 1:

Average throughput: 736.86 Mbit/s

95th percentile per-packet one-way delay: 231.844 ms

Loss rate: 12.19%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-03-13 12:41:05

End at: 2018-03-13 12:41:35

Below is generated by plot.py at 2018-03-13 18:25:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 726.06 Mbit/s

95th percentile per-packet one-way delay: 232.076 ms

Loss rate: 11.31%

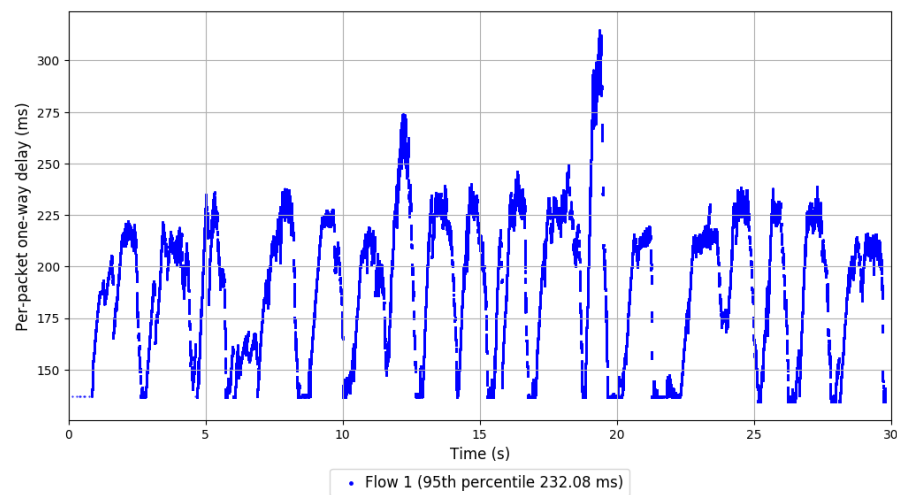
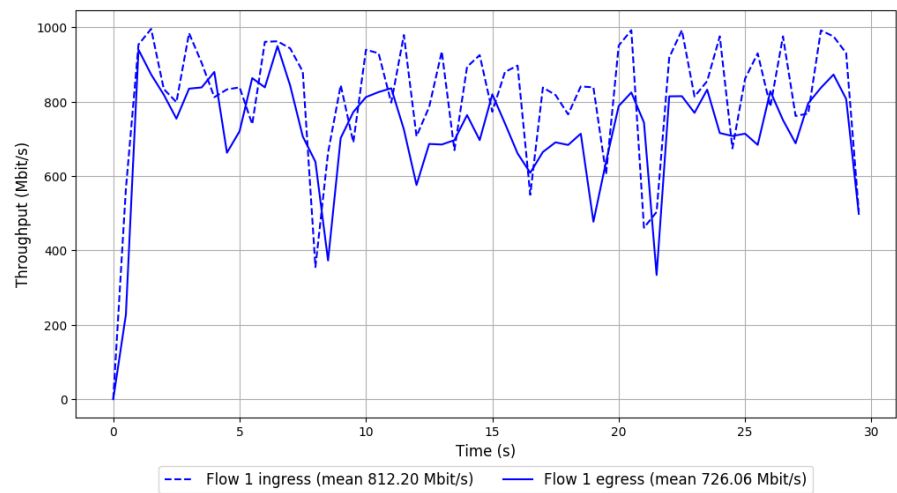
-- Flow 1:

Average throughput: 726.06 Mbit/s

95th percentile per-packet one-way delay: 232.076 ms

Loss rate: 11.31%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-03-13 12:56:37

End at: 2018-03-13 12:57:07

Below is generated by plot.py at 2018-03-13 18:26:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 706.06 Mbit/s

95th percentile per-packet one-way delay: 236.361 ms

Loss rate: 14.09%

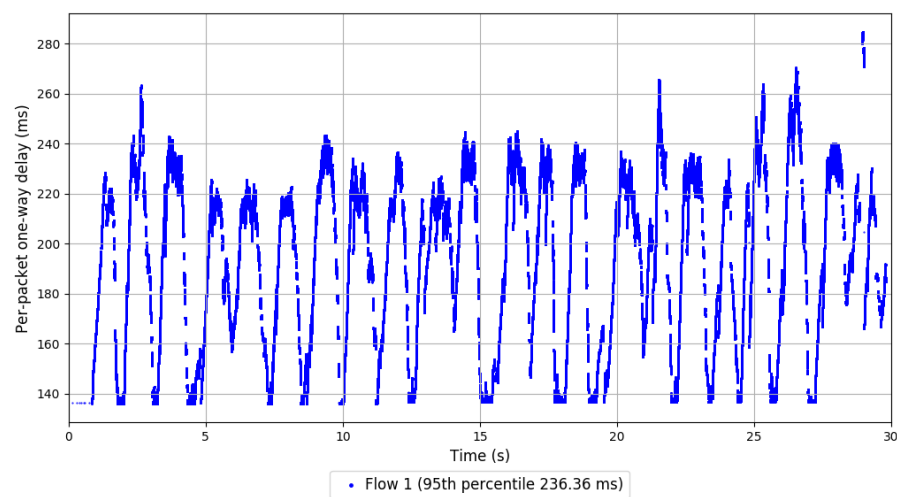
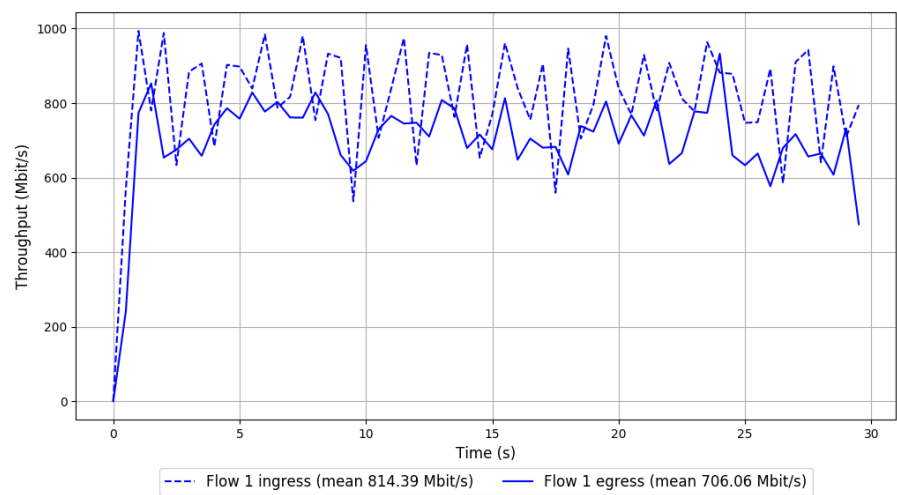
-- Flow 1:

Average throughput: 706.06 Mbit/s

95th percentile per-packet one-way delay: 236.361 ms

Loss rate: 14.09%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-03-13 13:12:12

End at: 2018-03-13 13:12:42

Below is generated by plot.py at 2018-03-13 18:26:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 729.44 Mbit/s

95th percentile per-packet one-way delay: 233.034 ms

Loss rate: 12.98%

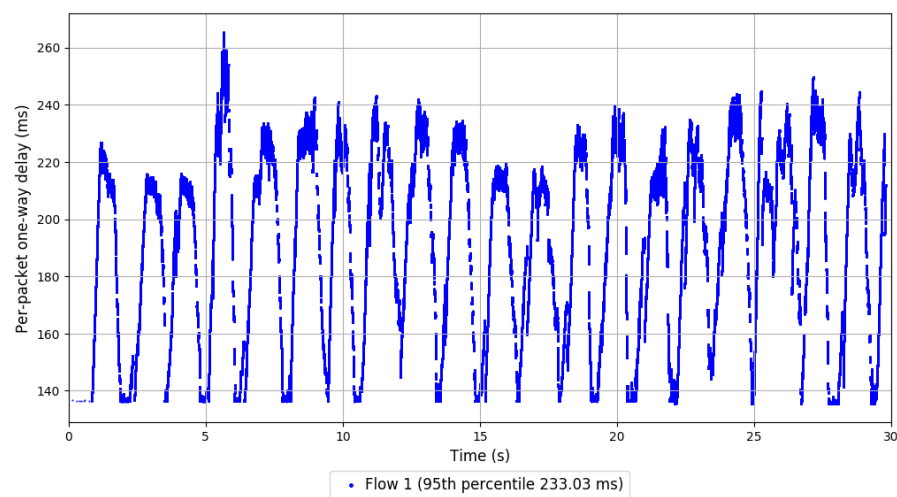
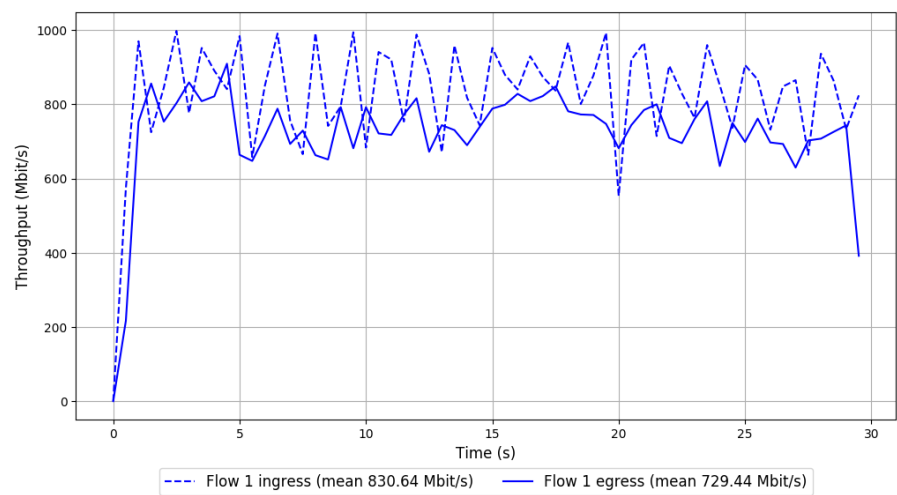
-- Flow 1:

Average throughput: 729.44 Mbit/s

95th percentile per-packet one-way delay: 233.034 ms

Loss rate: 12.98%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-03-13 13:27:59

End at: 2018-03-13 13:28:29

Below is generated by plot.py at 2018-03-13 18:27:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 712.83 Mbit/s

95th percentile per-packet one-way delay: 232.054 ms

Loss rate: 12.23%

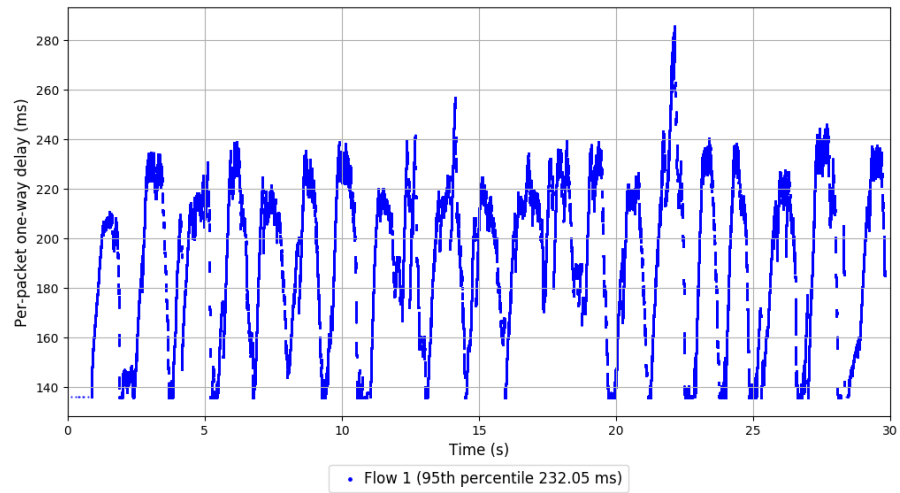
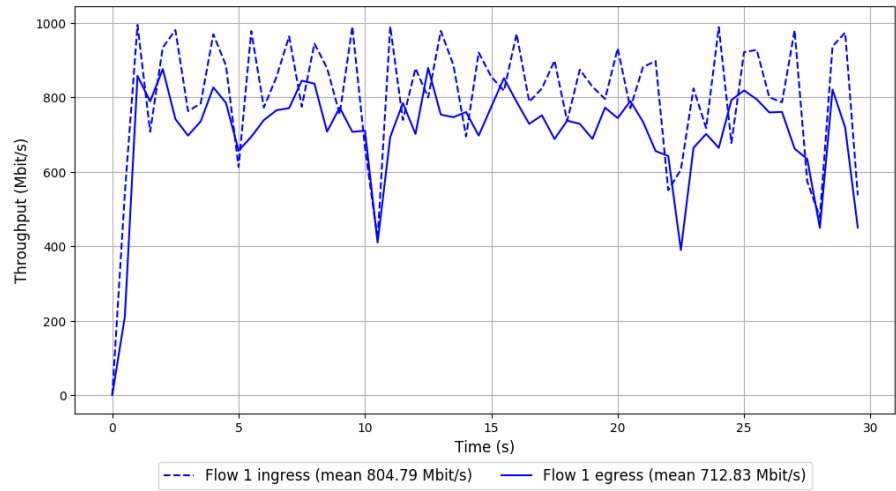
-- Flow 1:

Average throughput: 712.83 Mbit/s

95th percentile per-packet one-way delay: 232.054 ms

Loss rate: 12.23%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-03-13 13:43:38

End at: 2018-03-13 13:44:08

Below is generated by plot.py at 2018-03-13 18:28:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 753.45 Mbit/s

95th percentile per-packet one-way delay: 229.388 ms

Loss rate: 10.34%

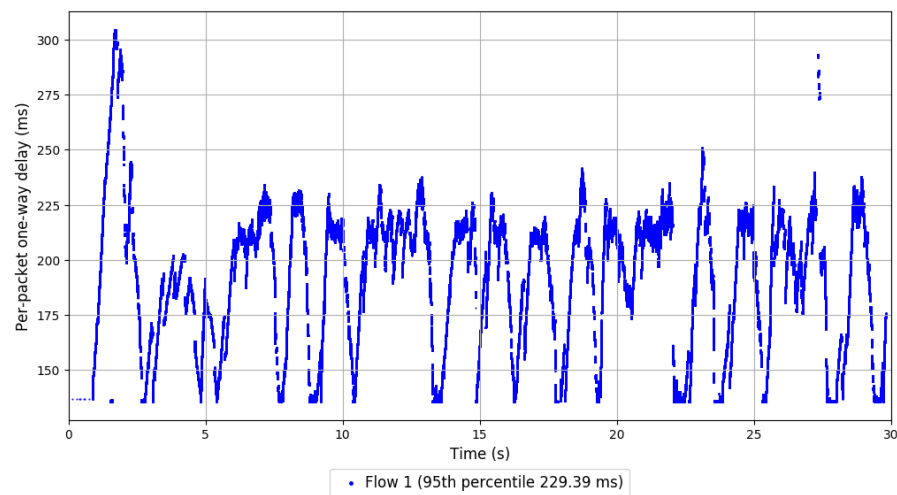
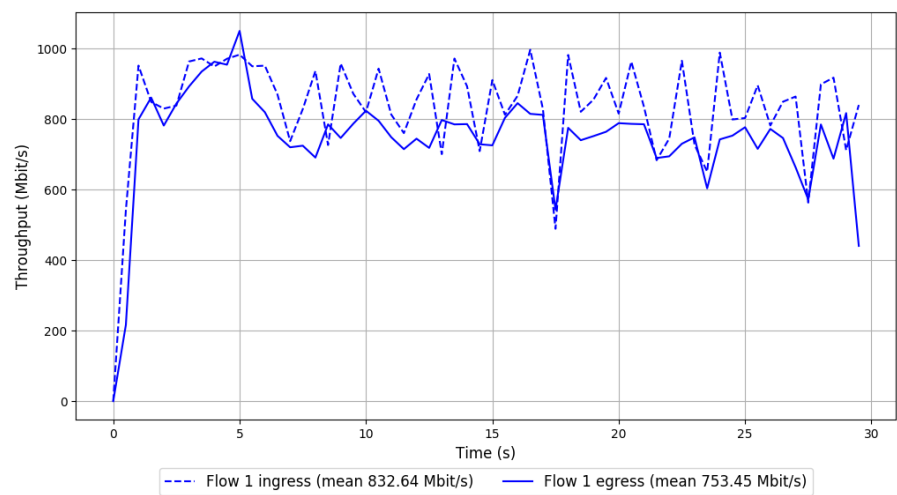
-- Flow 1:

Average throughput: 753.45 Mbit/s

95th percentile per-packet one-way delay: 229.388 ms

Loss rate: 10.34%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-03-13 13:58:58

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

Below is generated by plot.py at 2018-03-13 18:28:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 705.41 Mbit/s

95th percentile per-packet one-way delay: 234.590 ms

Loss rate: 13.61%

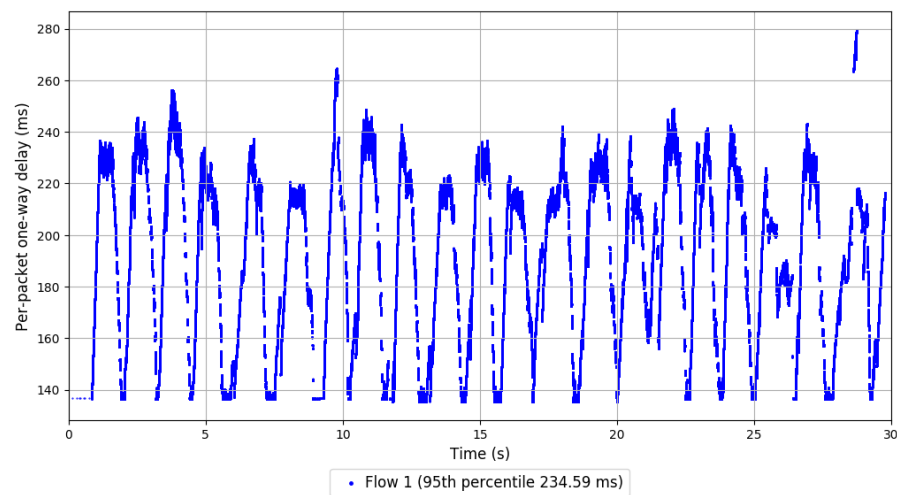
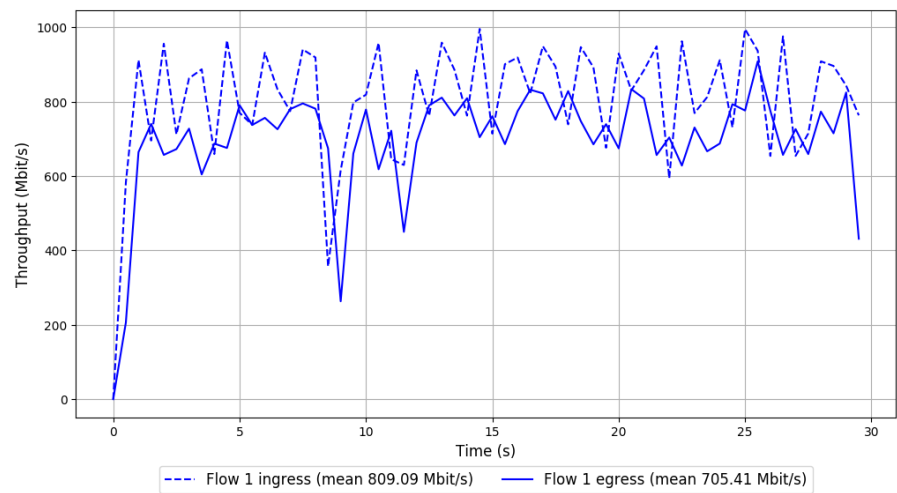
-- Flow 1:

Average throughput: 705.41 Mbit/s

95th percentile per-packet one-way delay: 234.590 ms

Loss rate: 13.61%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-03-13 14:14:13

End at: 2018-03-13 14:14:43

Below is generated by plot.py at 2018-03-13 18:28:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 765.06 Mbit/s

95th percentile per-packet one-way delay: 234.007 ms

Loss rate: 10.55%

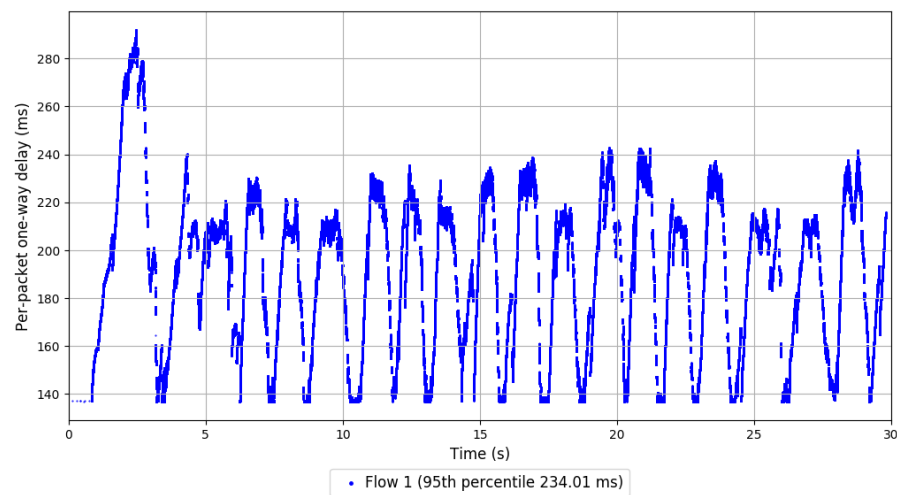
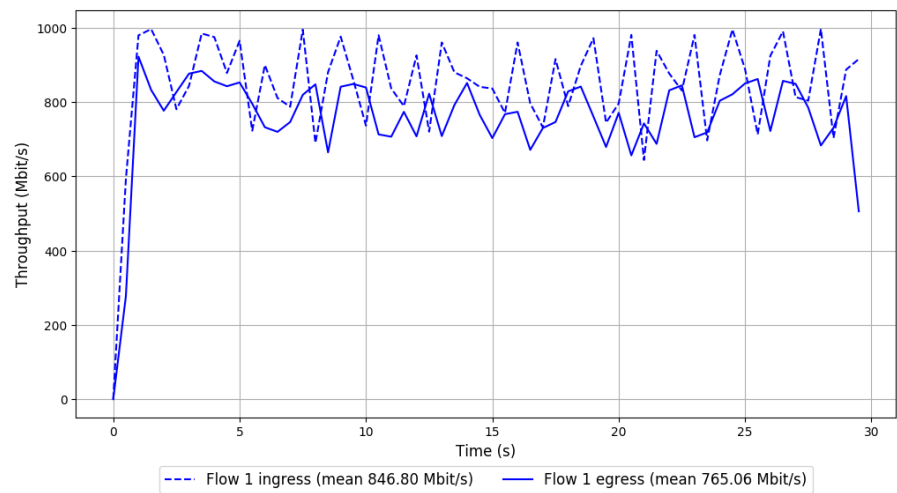
-- Flow 1:

Average throughput: 765.06 Mbit/s

95th percentile per-packet one-way delay: 234.007 ms

Loss rate: 10.55%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-03-13 14:29:37

End at: 2018-03-13 14:30:07

Below is generated by plot.py at 2018-03-13 18:43:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 723.58 Mbit/s

95th percentile per-packet one-way delay: 234.713 ms

Loss rate: 13.35%

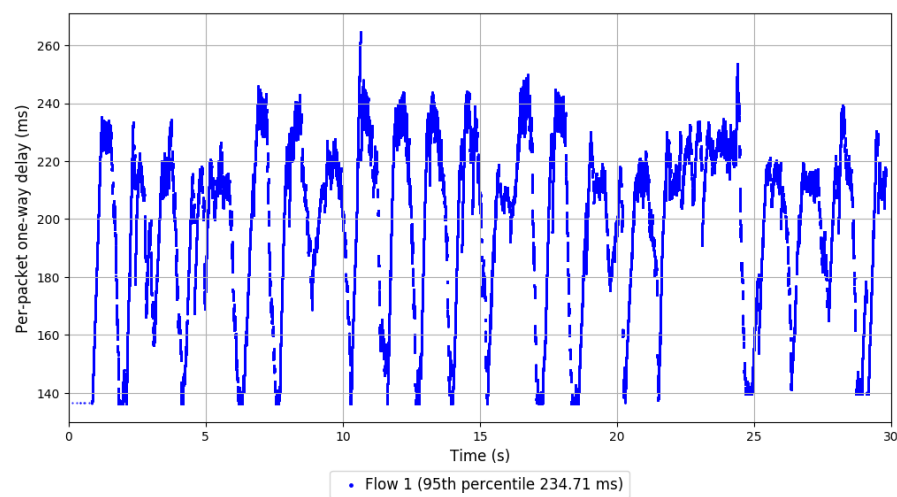
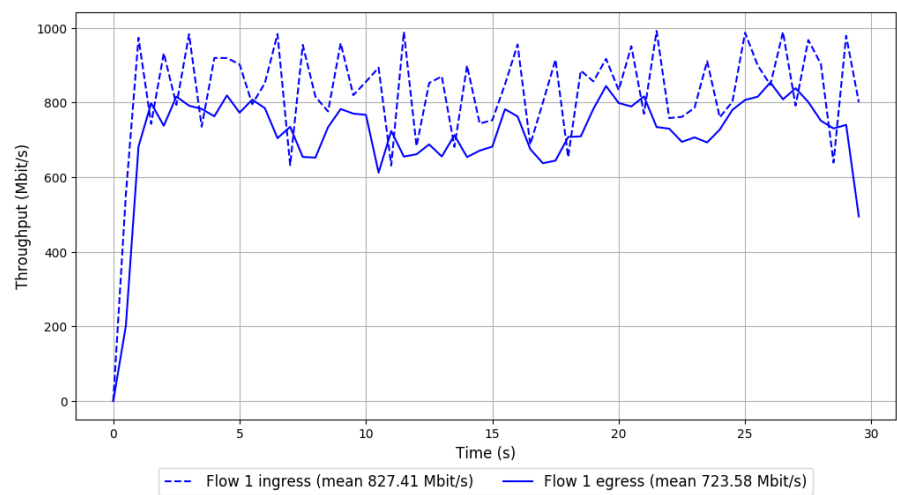
-- Flow 1:

Average throughput: 723.58 Mbit/s

95th percentile per-packet one-way delay: 234.713 ms

Loss rate: 13.35%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-03-13 14:45:15

End at: 2018-03-13 14:45:45

Below is generated by plot.py at 2018-03-13 18:43:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 721.61 Mbit/s

95th percentile per-packet one-way delay: 230.345 ms

Loss rate: 11.72%

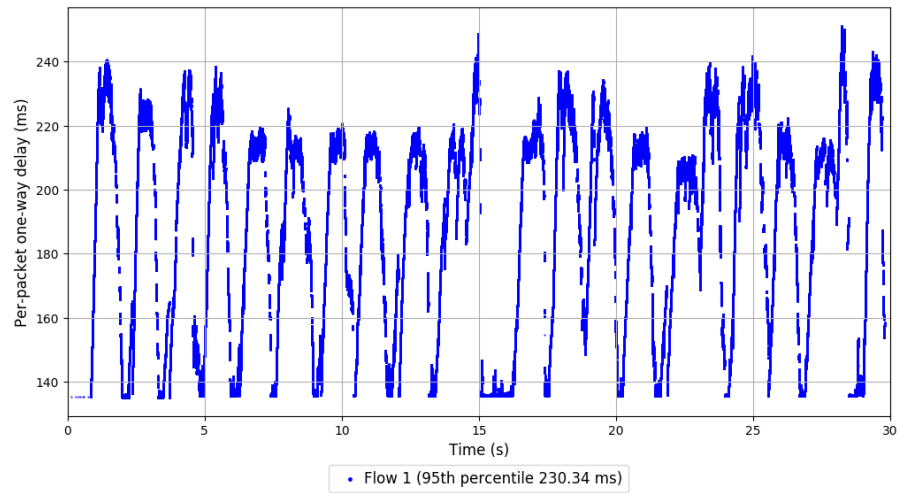
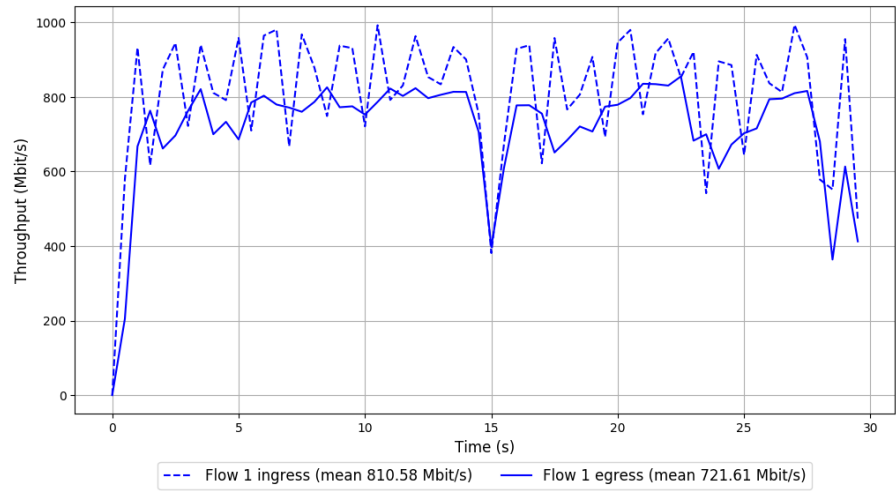
-- Flow 1:

Average throughput: 721.61 Mbit/s

95th percentile per-packet one-way delay: 230.345 ms

Loss rate: 11.72%

Run 10: Report of FillP — Data Link

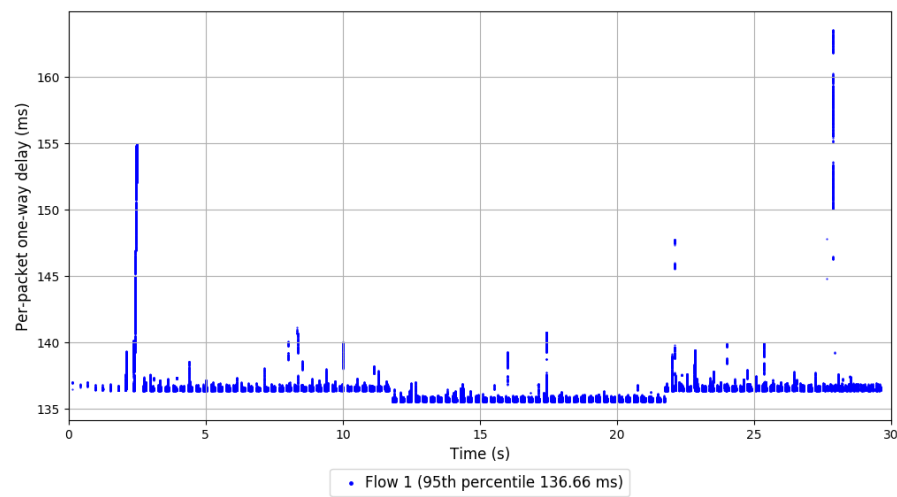
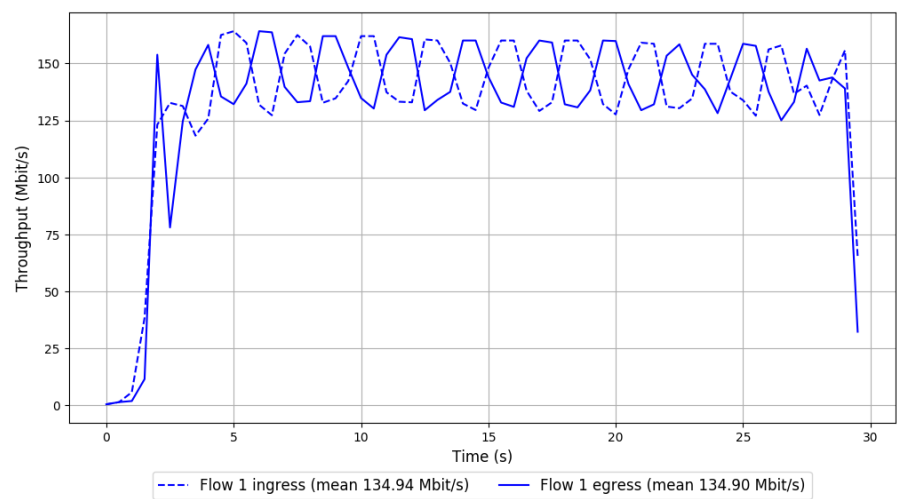


```
Run 1: Statistics of Indigo-1-32

Start at: 2018-03-13 12:30:13
End at: 2018-03-13 12:30:43

# Below is generated by plot.py at 2018-03-13 18:43:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 134.90 Mbit/s
95th percentile per-packet one-way delay: 136.659 ms
Loss rate: 0.94%
-- Flow 1:
Average throughput: 134.90 Mbit/s
95th percentile per-packet one-way delay: 136.659 ms
Loss rate: 0.94%
```

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



Run 2: Statistics of Indigo-1-32

Start at: 2018-03-13 12:45:30

End at: 2018-03-13 12:46:00

Below is generated by plot.py at 2018-03-13 18:43:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 134.13 Mbit/s

95th percentile per-packet one-way delay: 137.024 ms

Loss rate: 0.94%

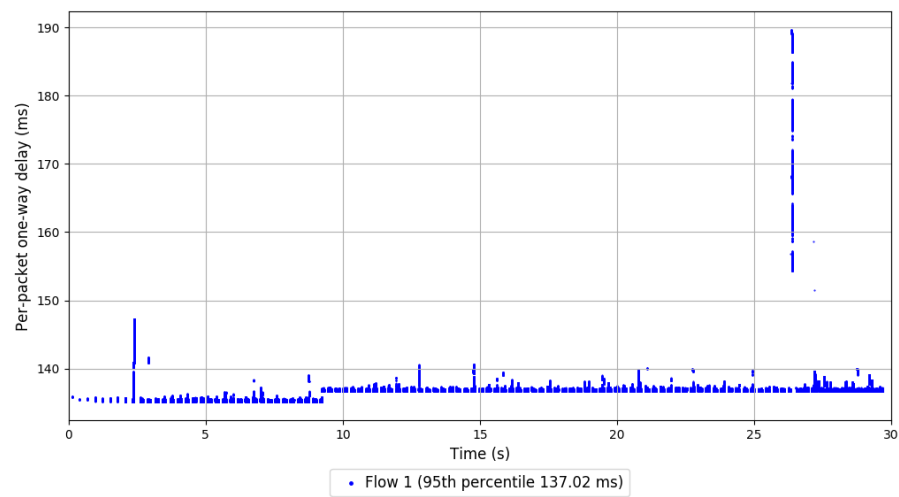
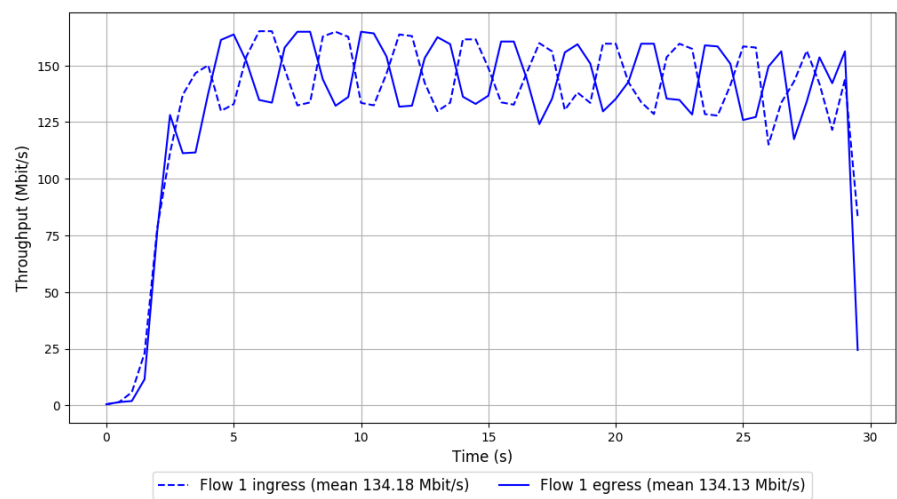
-- Flow 1:

Average throughput: 134.13 Mbit/s

95th percentile per-packet one-way delay: 137.024 ms

Loss rate: 0.94%

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



Run 3: Statistics of Indigo-1-32

Start at: 2018-03-13 13:01:04

End at: 2018-03-13 13:01:34

Below is generated by plot.py at 2018-03-13 18:43:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 167.85 Mbit/s

95th percentile per-packet one-way delay: 136.485 ms

Loss rate: 0.87%

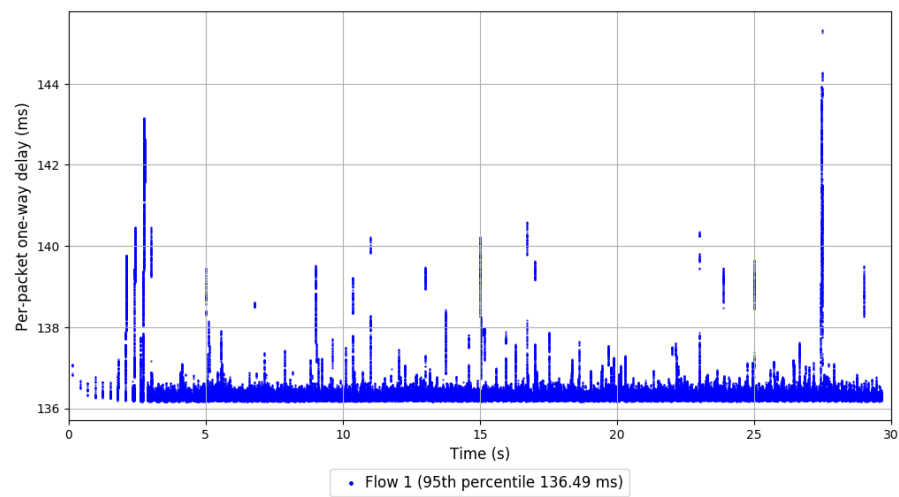
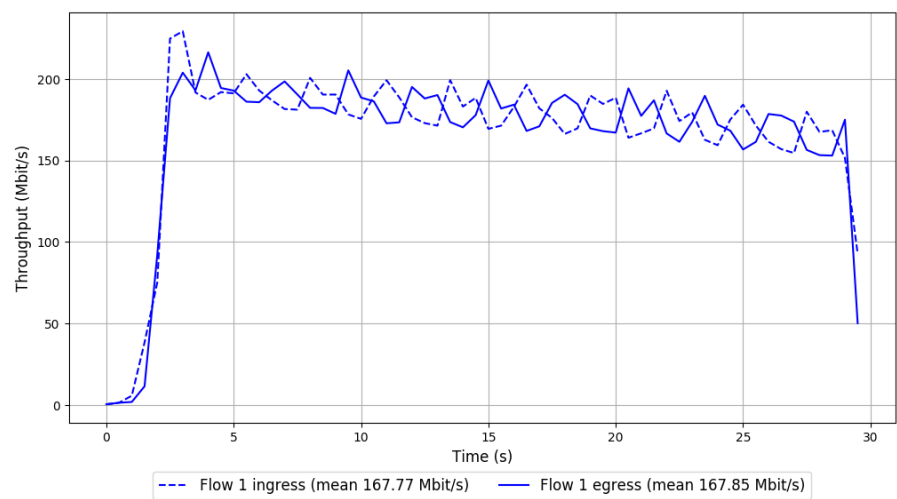
-- Flow 1:

Average throughput: 167.85 Mbit/s

95th percentile per-packet one-way delay: 136.485 ms

Loss rate: 0.87%

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



Run 4: Statistics of Indigo-1-32

Start at: 2018-03-13 13:17:04

End at: 2018-03-13 13:17:34

Below is generated by plot.py at 2018-03-13 18:43:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 134.59 Mbit/s

95th percentile per-packet one-way delay: 136.366 ms

Loss rate: 0.97%

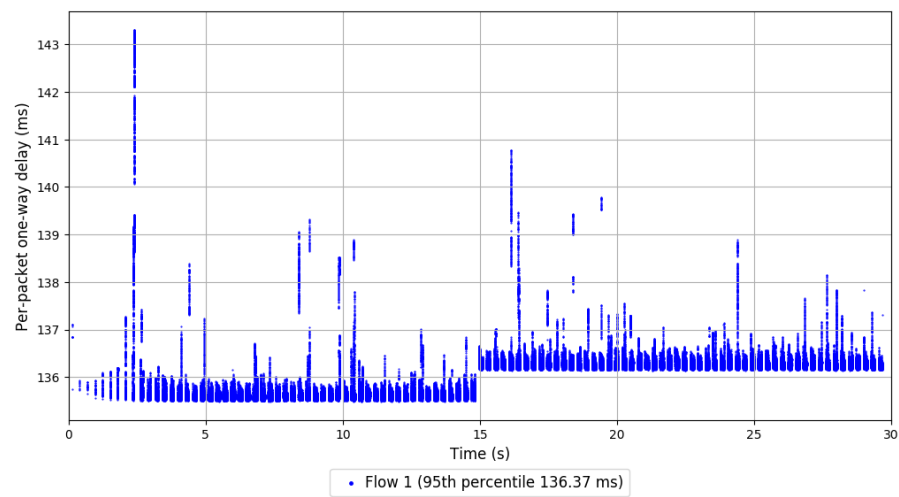
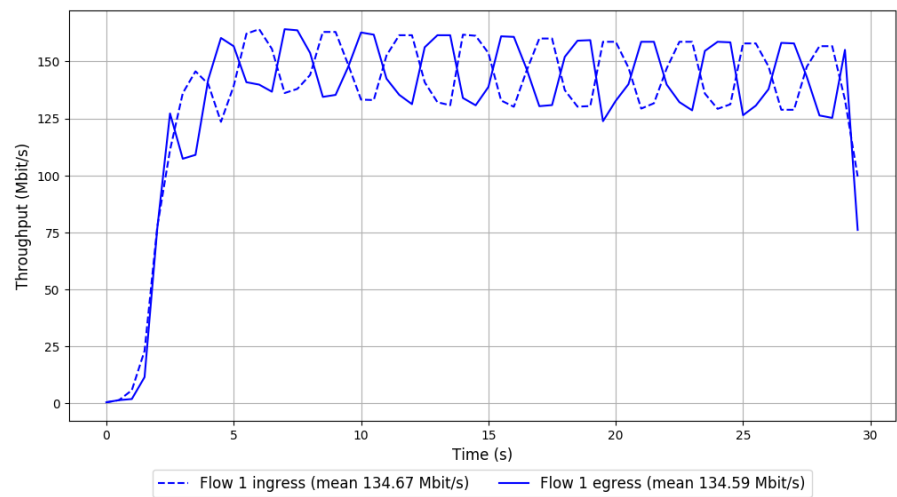
-- Flow 1:

Average throughput: 134.59 Mbit/s

95th percentile per-packet one-way delay: 136.366 ms

Loss rate: 0.97%

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



Run 5: Statistics of Indigo-1-32

Start at: 2018-03-13 13:32:44

End at: 2018-03-13 13:33:14

Below is generated by plot.py at 2018-03-13 18:43:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 179.38 Mbit/s

95th percentile per-packet one-way delay: 135.841 ms

Loss rate: 0.93%

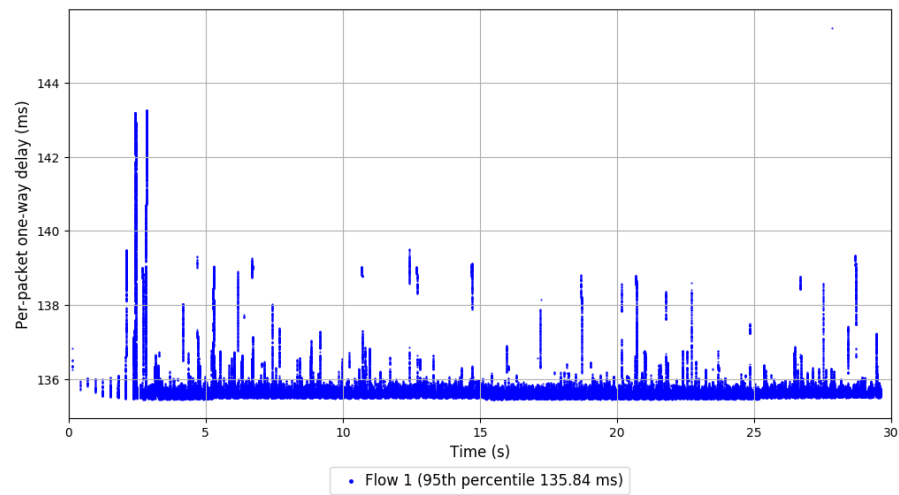
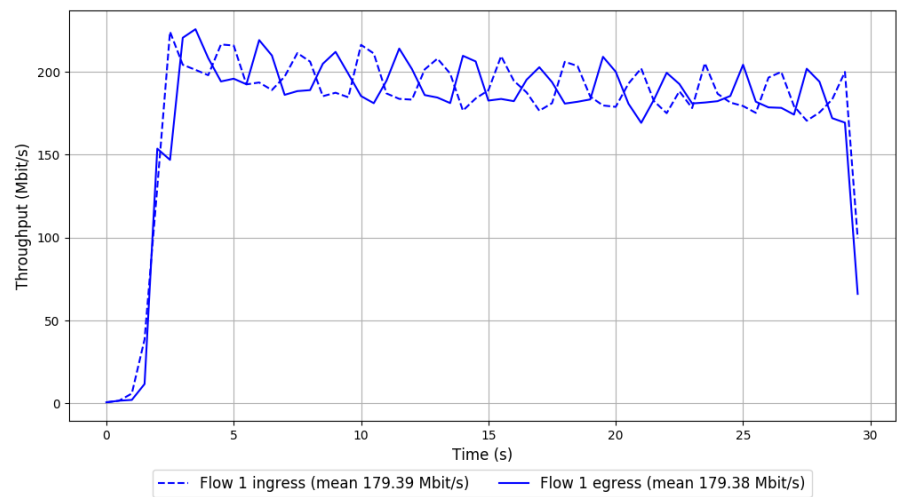
-- Flow 1:

Average throughput: 179.38 Mbit/s

95th percentile per-packet one-way delay: 135.841 ms

Loss rate: 0.93%

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



Run 6: Statistics of Indigo-1-32

Start at: 2018-03-13 13:48:04

End at: 2018-03-13 13:48:34

Below is generated by plot.py at 2018-03-13 18:43:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 132.98 Mbit/s

95th percentile per-packet one-way delay: 136.325 ms

Loss rate: 0.96%

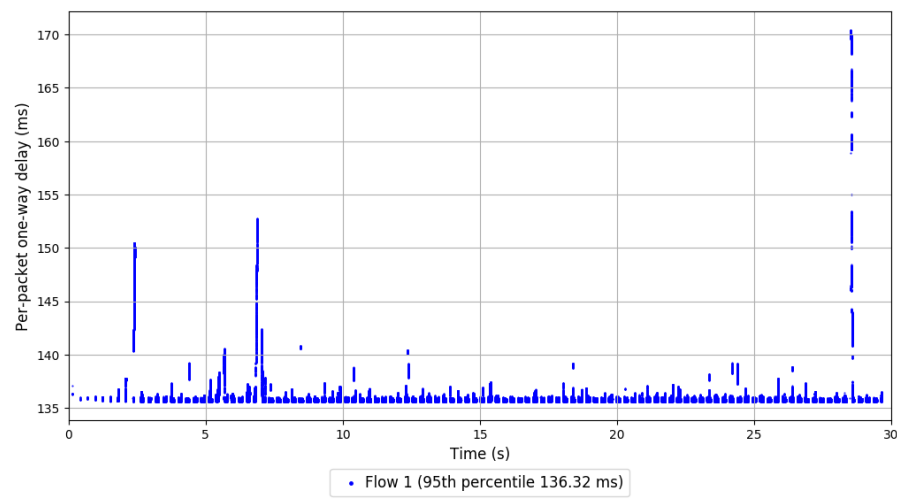
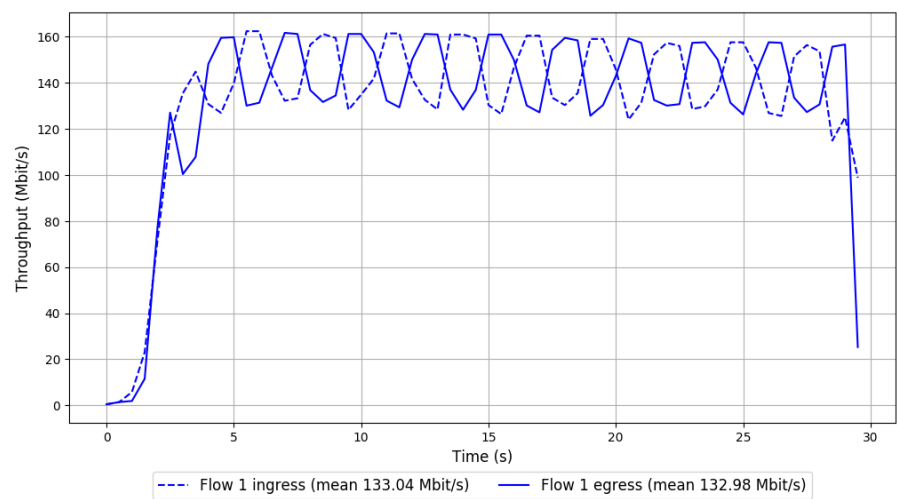
-- Flow 1:

Average throughput: 132.98 Mbit/s

95th percentile per-packet one-way delay: 136.325 ms

Loss rate: 0.96%

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



Run 7: Statistics of Indigo-1-32

Start at: 2018-03-13 14:03:24

End at: 2018-03-13 14:03:54

Below is generated by plot.py at 2018-03-13 18:43:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 178.66 Mbit/s

95th percentile per-packet one-way delay: 136.755 ms

Loss rate: 0.93%

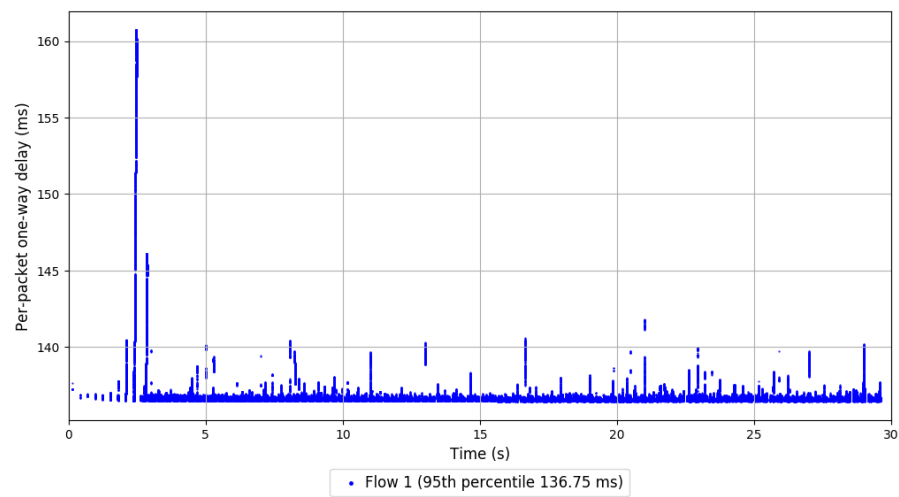
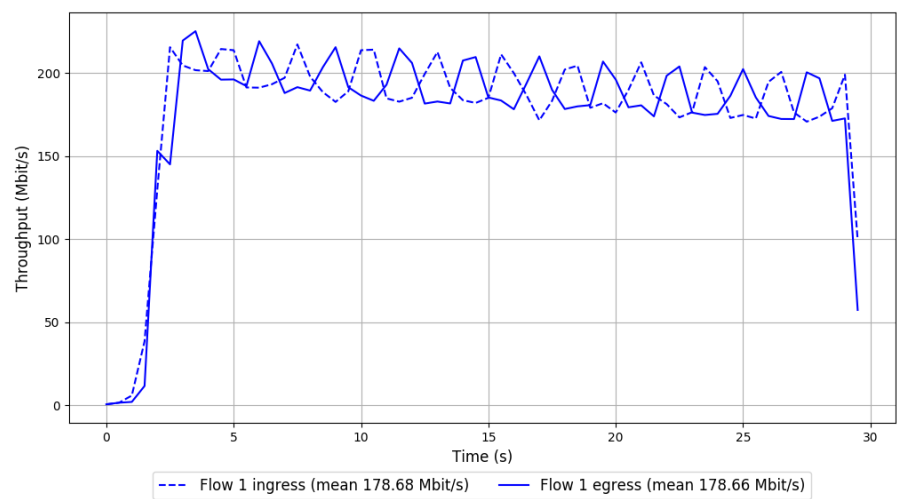
-- Flow 1:

Average throughput: 178.66 Mbit/s

95th percentile per-packet one-way delay: 136.755 ms

Loss rate: 0.93%

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



Run 8: Statistics of Indigo-1-32

Start at: 2018-03-13 14:18:39

End at: 2018-03-13 14:19:09

Below is generated by plot.py at 2018-03-13 18:43:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 133.50 Mbit/s

95th percentile per-packet one-way delay: 136.635 ms

Loss rate: 0.97%

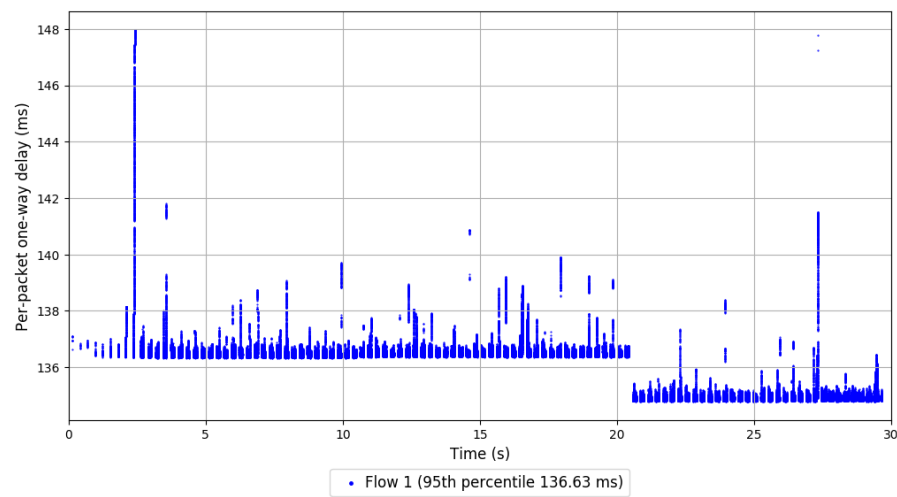
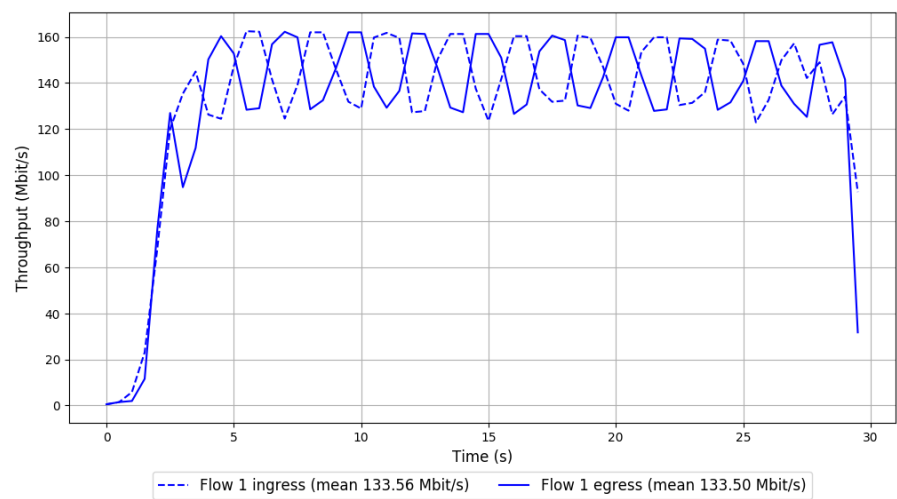
-- Flow 1:

Average throughput: 133.50 Mbit/s

95th percentile per-packet one-way delay: 136.635 ms

Loss rate: 0.97%

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



Run 9: Statistics of Indigo-1-32

Start at: 2018-03-13 14:34:04

End at: 2018-03-13 14:34:34

Below is generated by plot.py at 2018-03-13 18:43:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 178.14 Mbit/s

95th percentile per-packet one-way delay: 135.899 ms

Loss rate: 0.93%

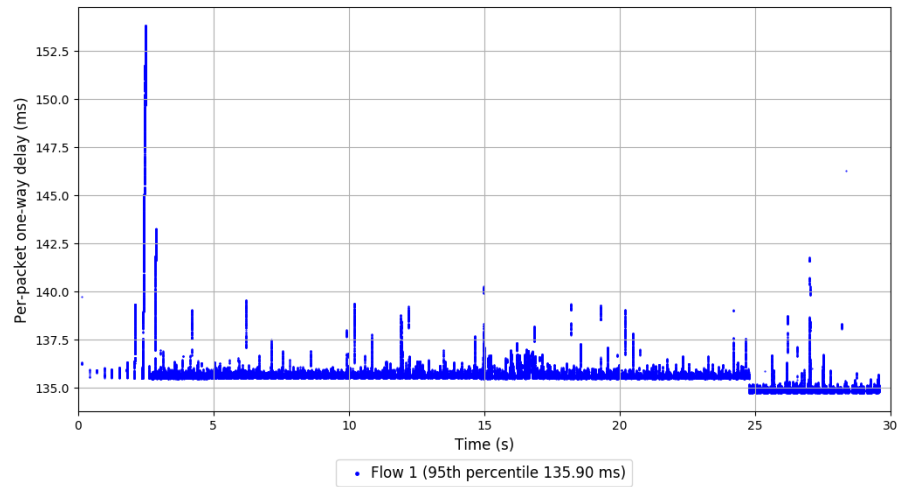
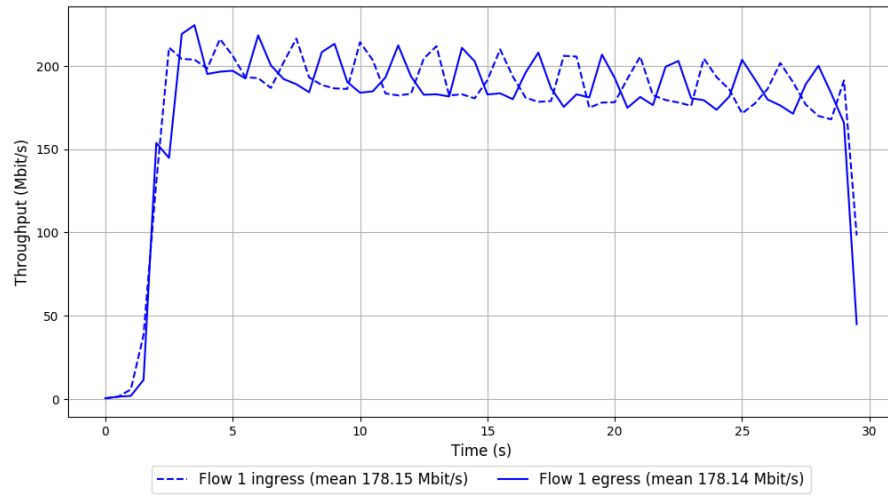
-- Flow 1:

Average throughput: 178.14 Mbit/s

95th percentile per-packet one-way delay: 135.899 ms

Loss rate: 0.93%

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



Run 10: Statistics of Indigo-1-32

Start at: 2018-03-13 14:49:40

End at: 2018-03-13 14:50:10

Below is generated by plot.py at 2018-03-13 18:43:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 132.66 Mbit/s

95th percentile per-packet one-way delay: 135.868 ms

Loss rate: 0.99%

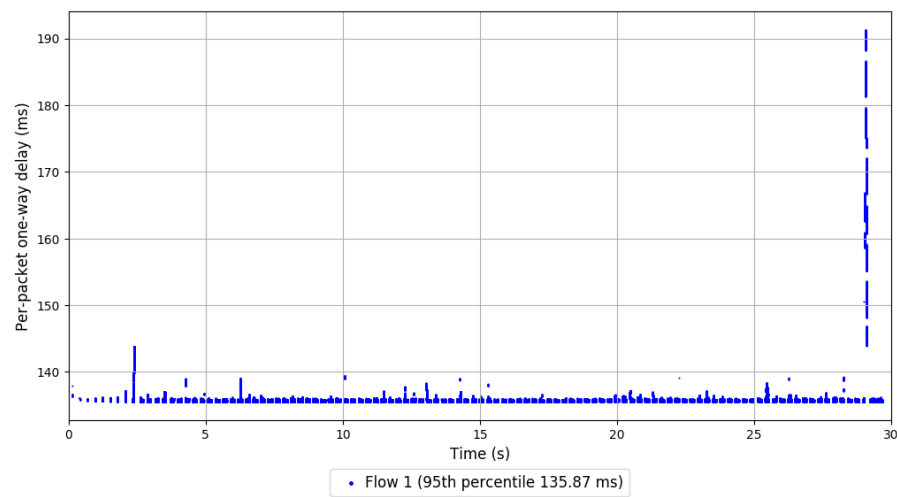
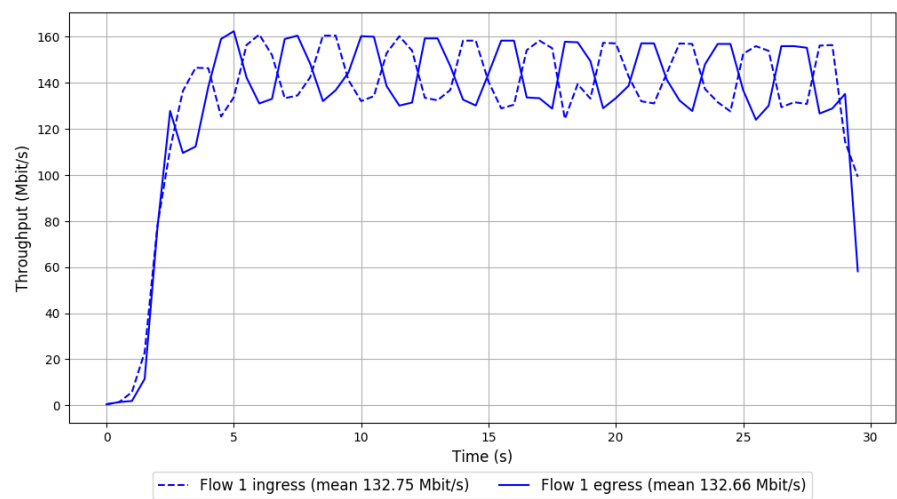
-- Flow 1:

Average throughput: 132.66 Mbit/s

95th percentile per-packet one-way delay: 135.868 ms

Loss rate: 0.99%

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

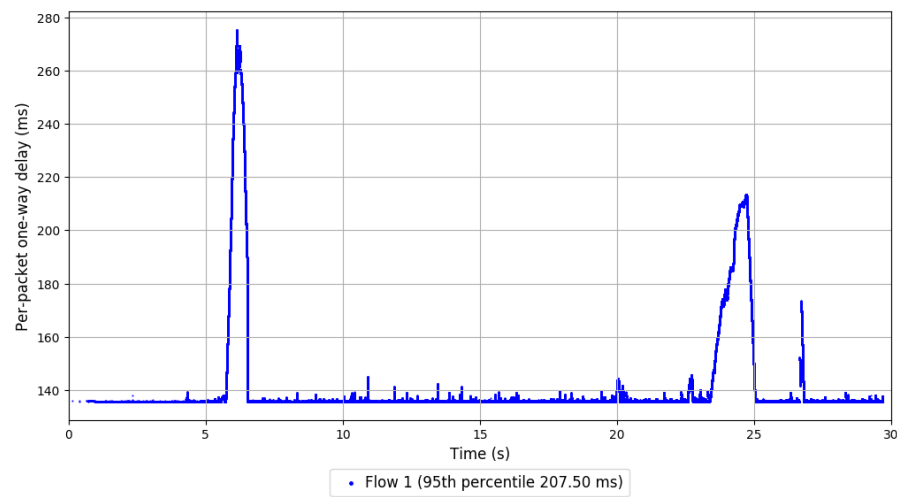
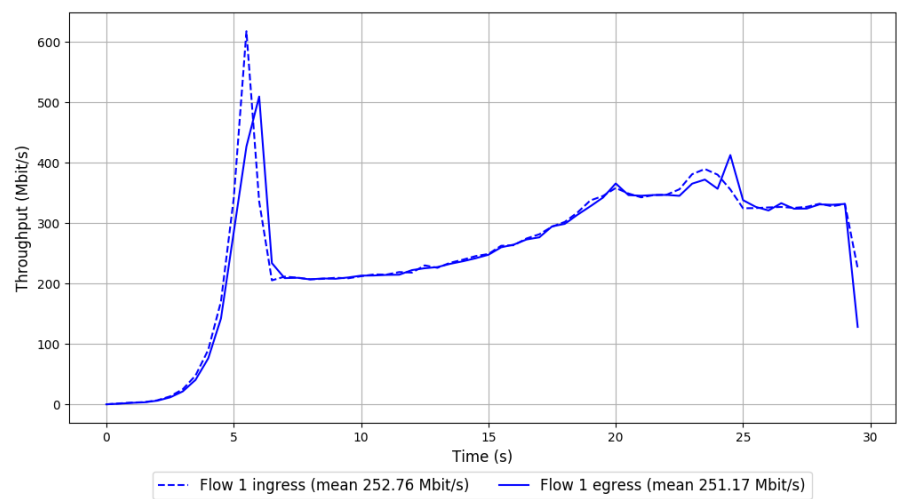


```
Run 1: Statistics of Vivace-latency

Start at: 2018-03-13 12:16:08
End at: 2018-03-13 12:16:38

# Below is generated by plot.py at 2018-03-13 18:43:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 251.17 Mbit/s
95th percentile per-packet one-way delay: 207.503 ms
Loss rate: 1.54%
-- Flow 1:
Average throughput: 251.17 Mbit/s
95th percentile per-packet one-way delay: 207.503 ms
Loss rate: 1.54%
```

Run 1: Report of Vivace-latency — Data Link



Run 2: Statistics of Vivace-latency

Start at: 2018-03-13 12:31:53

End at: 2018-03-13 12:32:23

Below is generated by plot.py at 2018-03-13 18:43:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 246.56 Mbit/s

95th percentile per-packet one-way delay: 145.857 ms

Loss rate: 1.21%

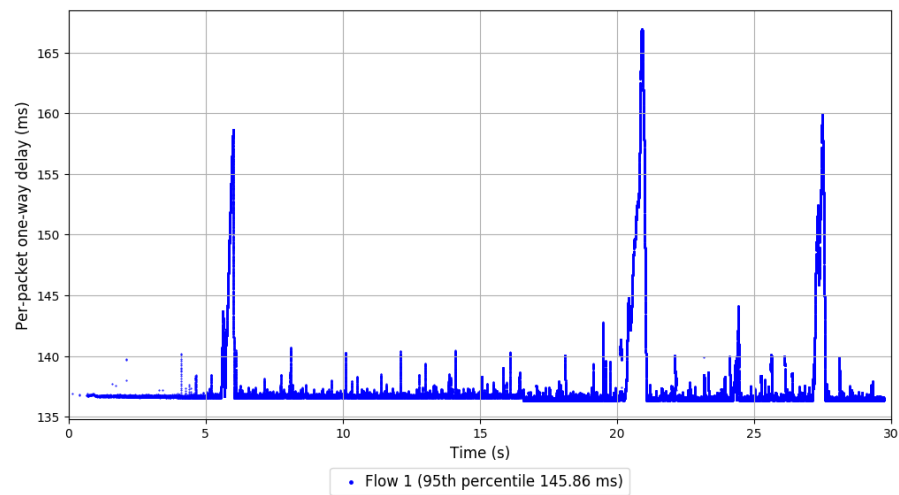
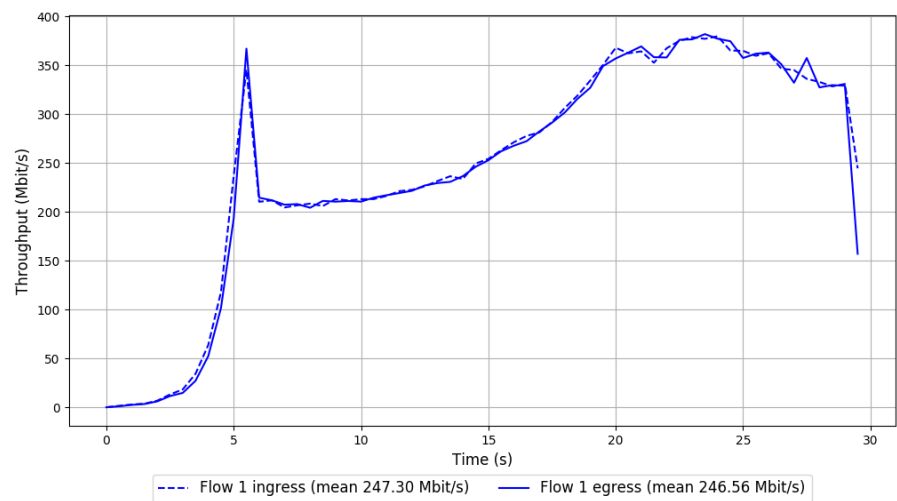
-- Flow 1:

Average throughput: 246.56 Mbit/s

95th percentile per-packet one-way delay: 145.857 ms

Loss rate: 1.21%

Run 2: Report of Vivace-latency — Data Link



Run 3: Statistics of Vivace-latency

Start at: 2018-03-13 12:47:10

End at: 2018-03-13 12:47:40

Below is generated by plot.py at 2018-03-13 18:43:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 239.06 Mbit/s

95th percentile per-packet one-way delay: 186.032 ms

Loss rate: 1.15%

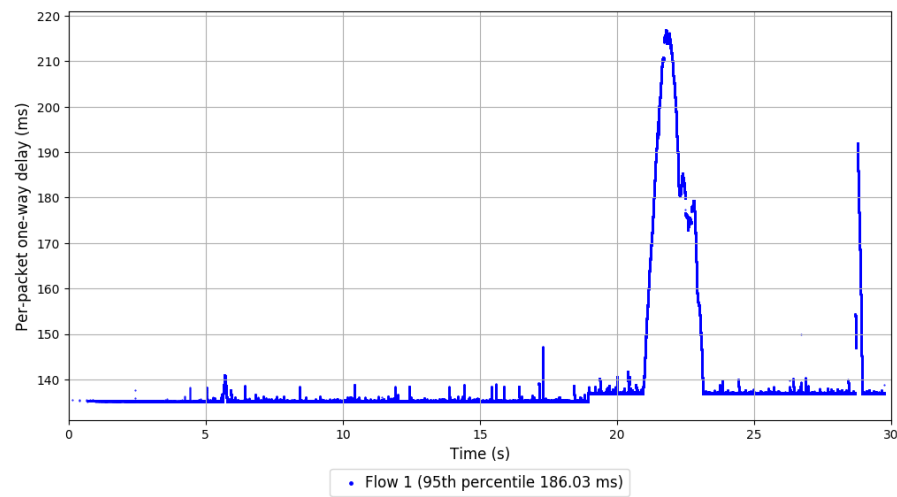
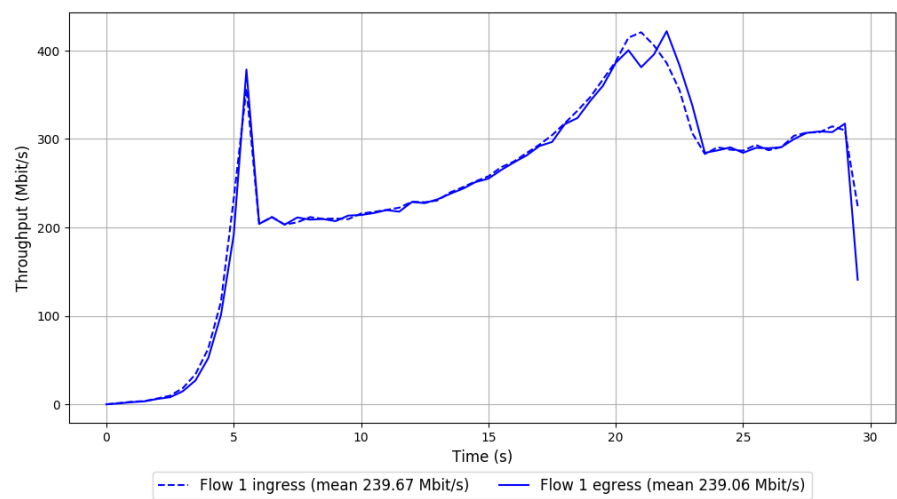
-- Flow 1:

Average throughput: 239.06 Mbit/s

95th percentile per-packet one-way delay: 186.032 ms

Loss rate: 1.15%

Run 3: Report of Vivace-latency — Data Link



Run 4: Statistics of Vivace-latency

Start at: 2018-03-13 13:02:47

End at: 2018-03-13 13:03:17

Below is generated by plot.py at 2018-03-13 18:43:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 284.58 Mbit/s

95th percentile per-packet one-way delay: 160.265 ms

Loss rate: 1.23%

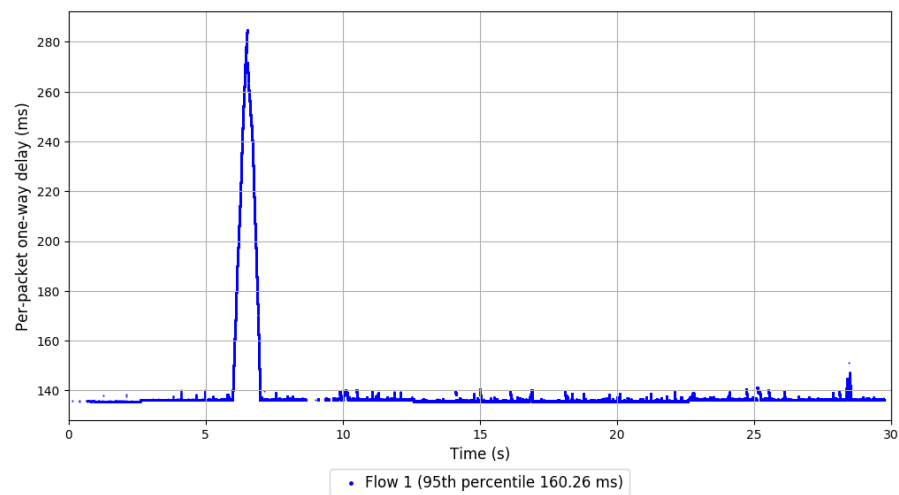
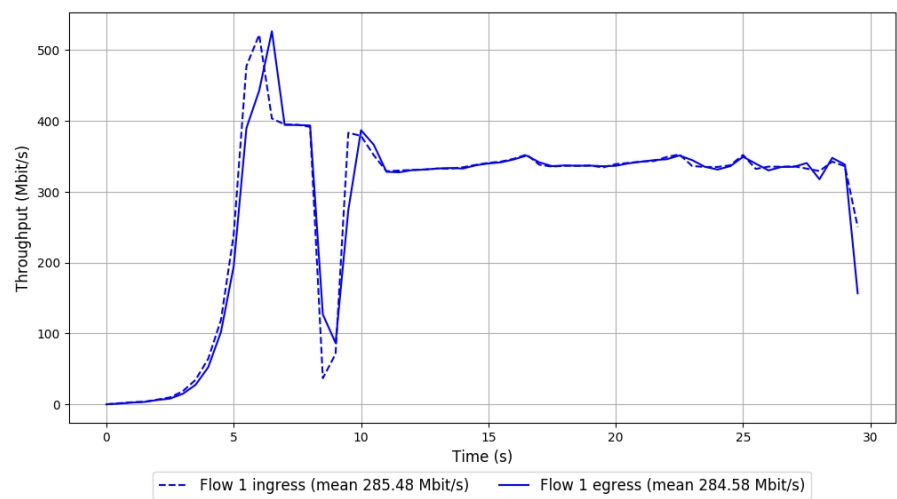
-- Flow 1:

Average throughput: 284.58 Mbit/s

95th percentile per-packet one-way delay: 160.265 ms

Loss rate: 1.23%

Run 4: Report of Vivace-latency — Data Link



Run 5: Statistics of Vivace-latency

Start at: 2018-03-13 13:18:42

End at: 2018-03-13 13:19:12

Below is generated by plot.py at 2018-03-13 18:43:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 256.44 Mbit/s

95th percentile per-packet one-way delay: 208.393 ms

Loss rate: 1.01%

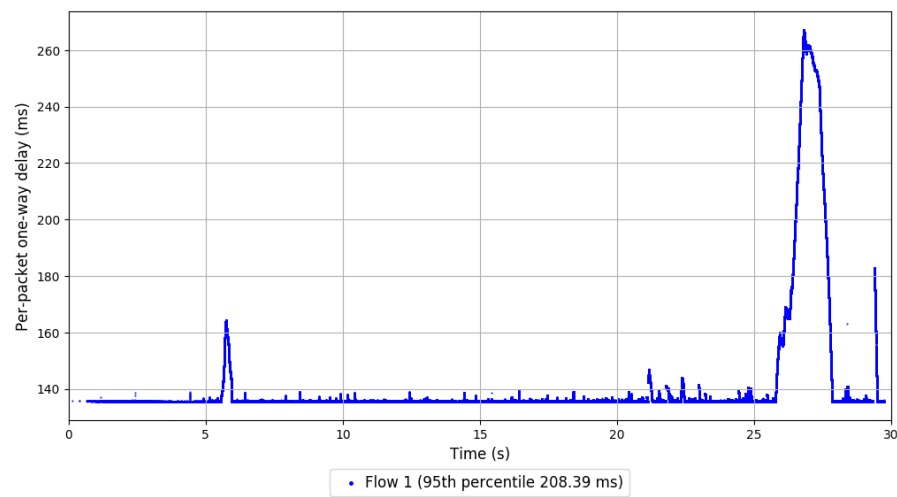
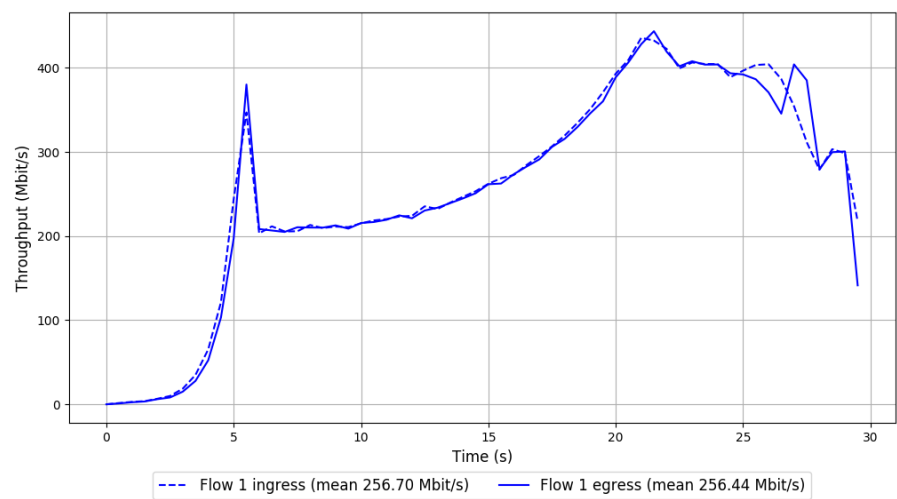
-- Flow 1:

Average throughput: 256.44 Mbit/s

95th percentile per-packet one-way delay: 208.393 ms

Loss rate: 1.01%

Run 5: Report of Vivace-latency — Data Link



Run 6: Statistics of Vivace-latency

Start at: 2018-03-13 13:34:28

End at: 2018-03-13 13:34:58

Below is generated by plot.py at 2018-03-13 18:43:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 165.29 Mbit/s

95th percentile per-packet one-way delay: 208.369 ms

Loss rate: 4.15%

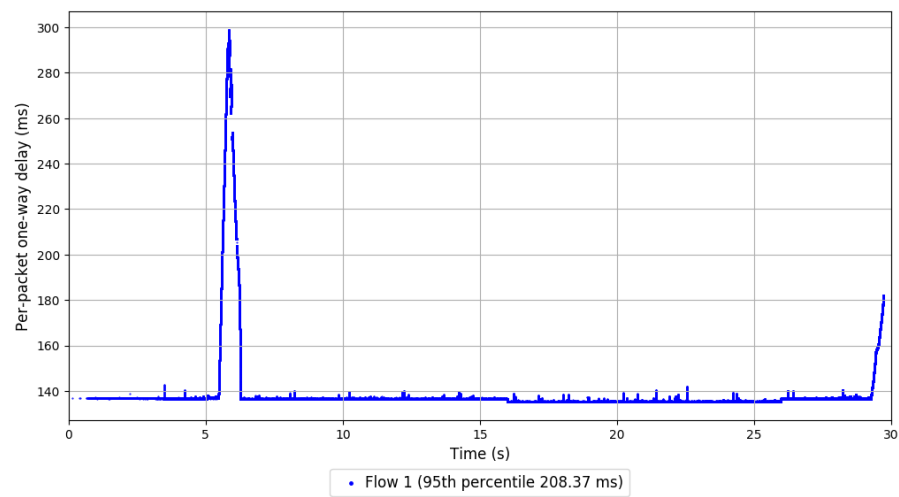
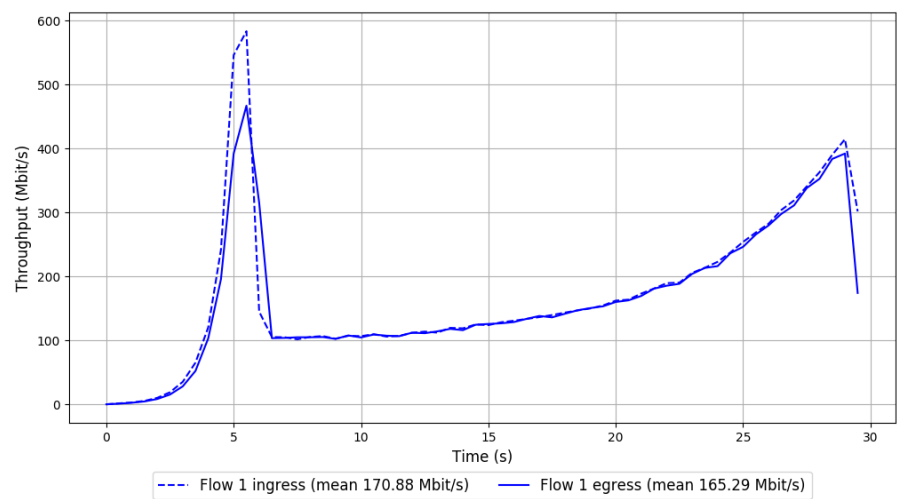
-- Flow 1:

Average throughput: 165.29 Mbit/s

95th percentile per-packet one-way delay: 208.369 ms

Loss rate: 4.15%

Run 6: Report of Vivace-latency — Data Link



Run 7: Statistics of Vivace-latency

Start at: 2018-03-13 13:49:45

End at: 2018-03-13 13:50:15

Below is generated by plot.py at 2018-03-13 18:43:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 152.63 Mbit/s

95th percentile per-packet one-way delay: 238.861 ms

Loss rate: 3.53%

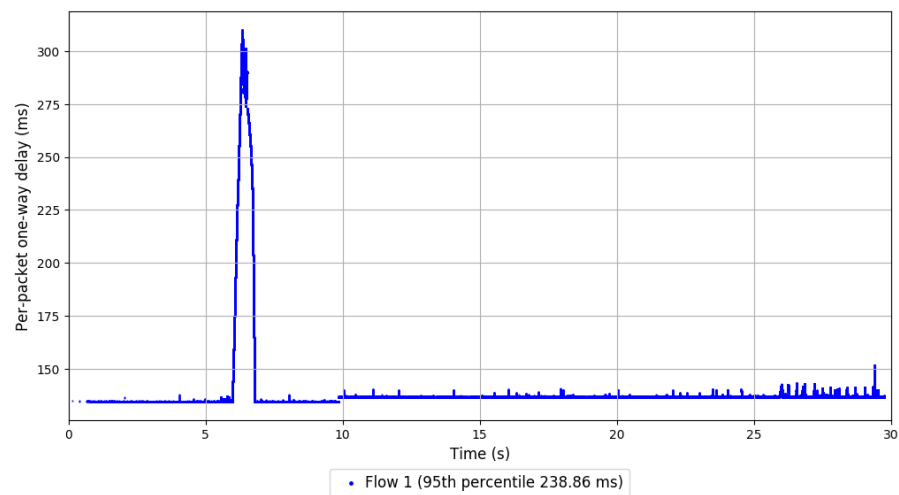
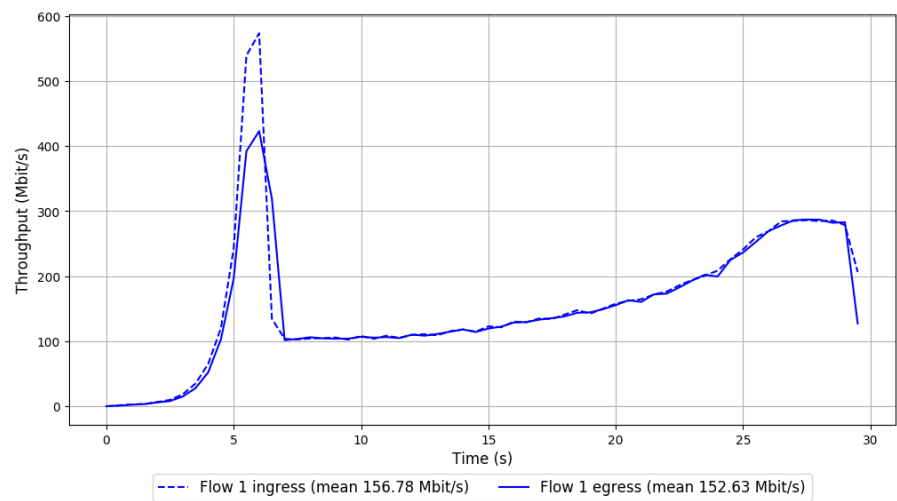
-- Flow 1:

Average throughput: 152.63 Mbit/s

95th percentile per-packet one-way delay: 238.861 ms

Loss rate: 3.53%

Run 7: Report of Vivace-latency — Data Link



Run 8: Statistics of Vivace-latency

Start at: 2018-03-13 14:05:06

End at: 2018-03-13 14:05:36

Below is generated by plot.py at 2018-03-13 18:43:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 231.38 Mbit/s

95th percentile per-packet one-way delay: 168.221 ms

Loss rate: 2.29%

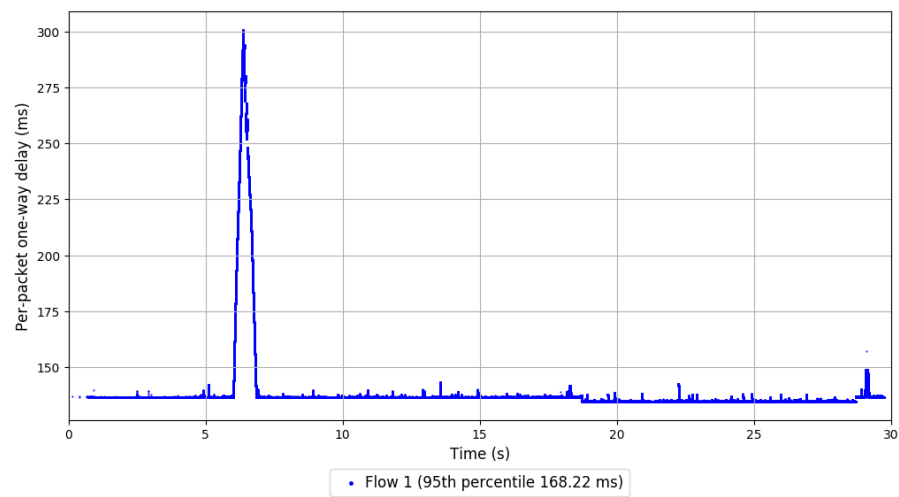
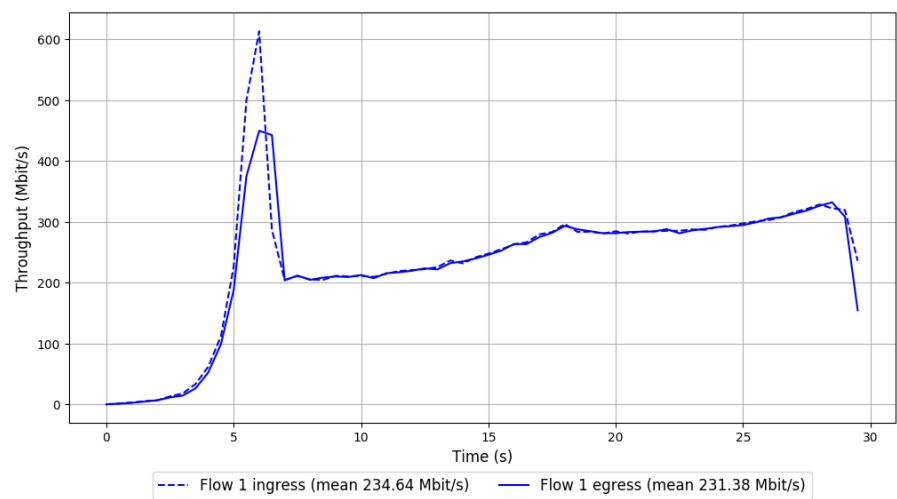
-- Flow 1:

Average throughput: 231.38 Mbit/s

95th percentile per-packet one-way delay: 168.221 ms

Loss rate: 2.29%

Run 8: Report of Vivace-latency — Data Link



Run 9: Statistics of Vivace-latency

Start at: 2018-03-13 14:20:16

End at: 2018-03-13 14:20:46

Below is generated by plot.py at 2018-03-13 18:44:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 255.63 Mbit/s

95th percentile per-packet one-way delay: 142.500 ms

Loss rate: 1.19%

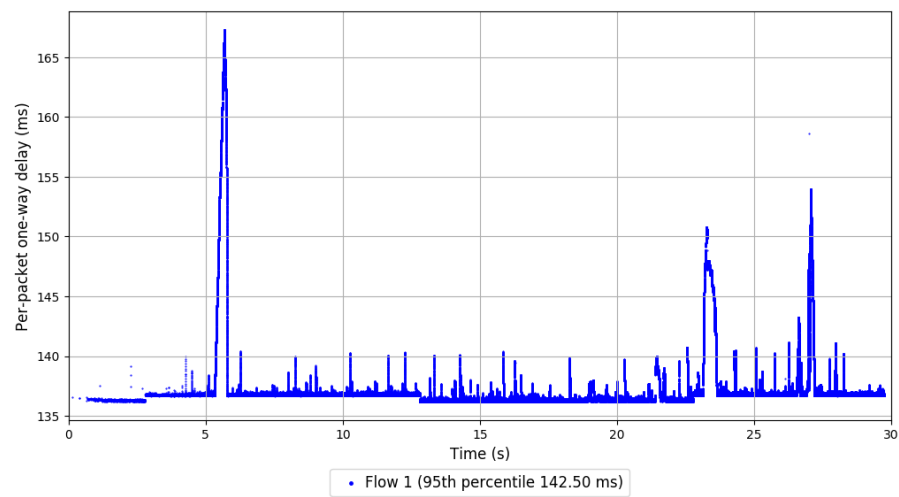
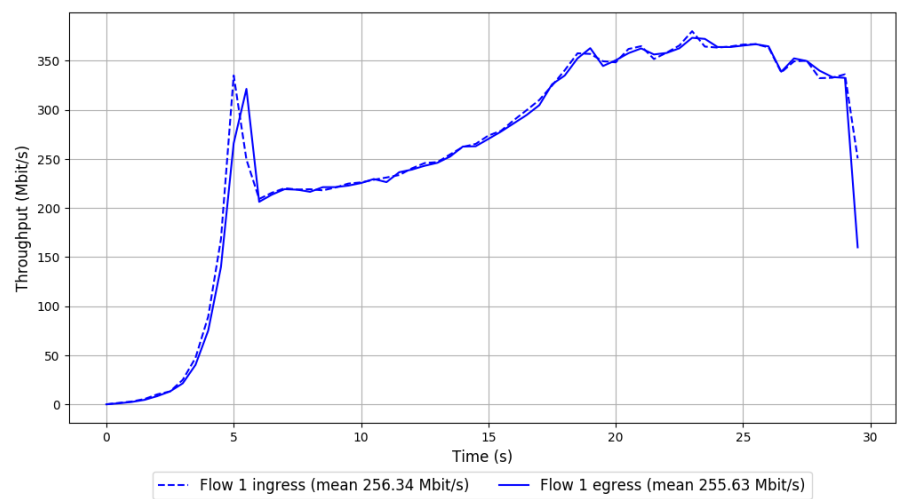
-- Flow 1:

Average throughput: 255.63 Mbit/s

95th percentile per-packet one-way delay: 142.500 ms

Loss rate: 1.19%

Run 9: Report of Vivace-latency — Data Link



Run 10: Statistics of Vivace-latency

Start at: 2018-03-13 14:35:48

End at: 2018-03-13 14:36:18

Below is generated by plot.py at 2018-03-13 18:46:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 317.59 Mbit/s

95th percentile per-packet one-way delay: 143.622 ms

Loss rate: 1.37%

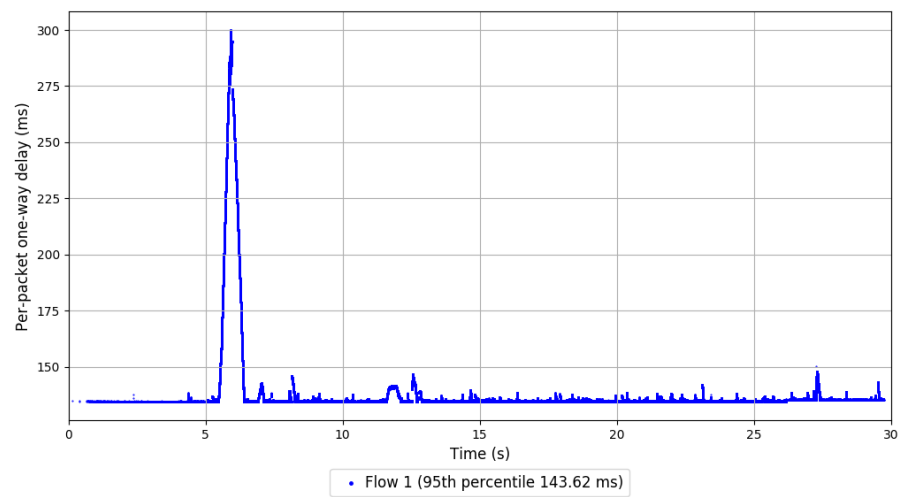
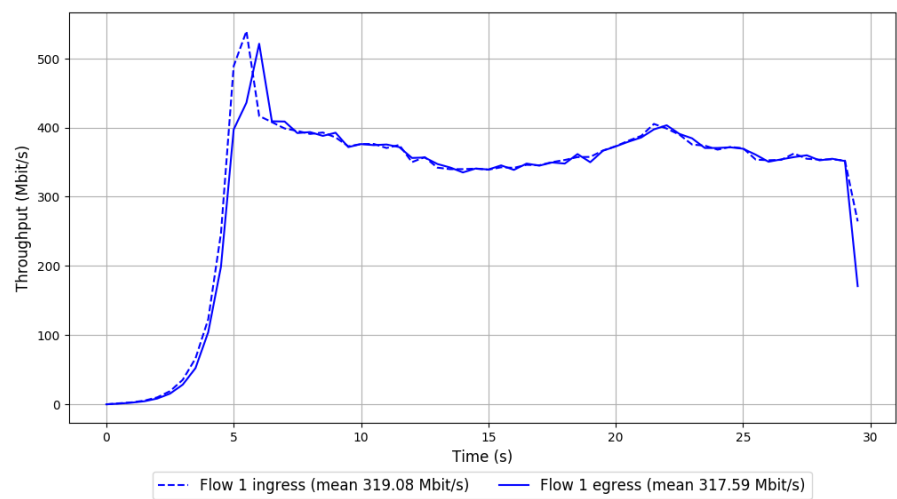
-- Flow 1:

Average throughput: 317.59 Mbit/s

95th percentile per-packet one-way delay: 143.622 ms

Loss rate: 1.37%

Run 10: Report of Vivace-latency — Data Link

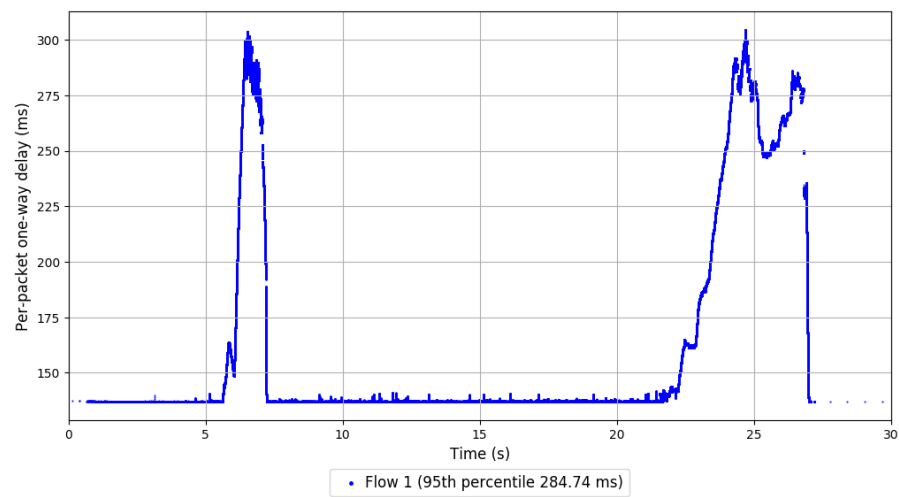
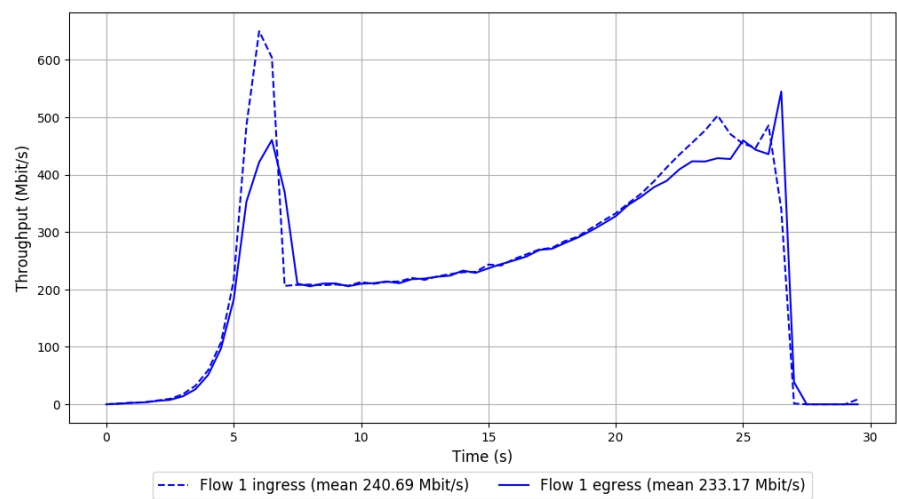


```
Run 1: Statistics of Vivace-loss

Start at: 2018-03-13 12:26:40
End at: 2018-03-13 12:27:10

# Below is generated by plot.py at 2018-03-13 18:46:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 233.17 Mbit/s
95th percentile per-packet one-way delay: 284.740 ms
Loss rate: 3.68%
-- Flow 1:
Average throughput: 233.17 Mbit/s
95th percentile per-packet one-way delay: 284.740 ms
Loss rate: 3.68%
```

Run 1: Report of Vivace-loss — Data Link



Run 2: Statistics of Vivace-loss

Start at: 2018-03-13 12:42:19

End at: 2018-03-13 12:42:49

Below is generated by plot.py at 2018-03-13 18:46:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 130.61 Mbit/s

95th percentile per-packet one-way delay: 296.554 ms

Loss rate: 8.76%

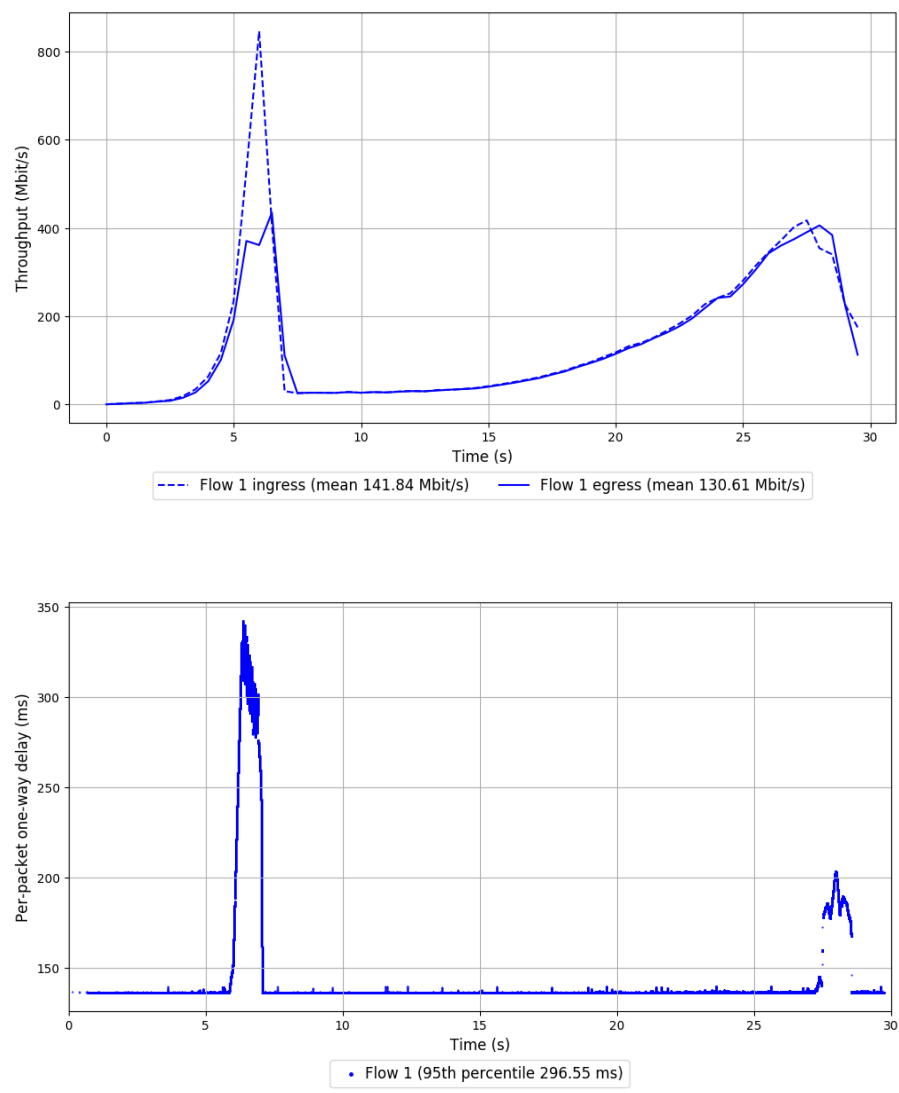
-- Flow 1:

Average throughput: 130.61 Mbit/s

95th percentile per-packet one-way delay: 296.554 ms

Loss rate: 8.76%

Run 2: Report of Vivace-loss — Data Link



Run 3: Statistics of Vivace-loss

Start at: 2018-03-13 12:57:52

End at: 2018-03-13 12:58:22

Below is generated by plot.py at 2018-03-13 18:46:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 138.47 Mbit/s

95th percentile per-packet one-way delay: 302.649 ms

Loss rate: 12.90%

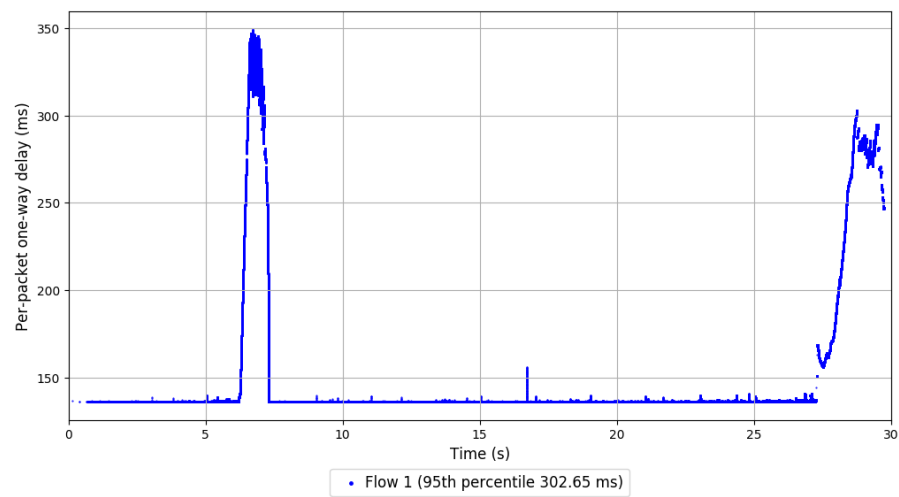
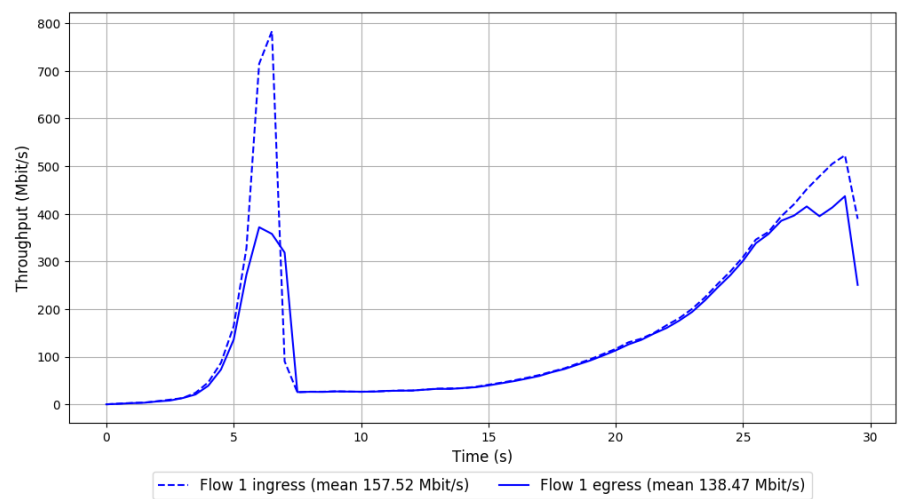
-- Flow 1:

Average throughput: 138.47 Mbit/s

95th percentile per-packet one-way delay: 302.649 ms

Loss rate: 12.90%

Run 3: Report of Vivace-loss — Data Link



Run 4: Statistics of Vivace-loss

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

End at: 2018-03-13 13:13:58

Below is generated by plot.py at 2018-03-13 18:49:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 247.77 Mbit/s

95th percentile per-packet one-way delay: 295.592 ms

Loss rate: 4.96%

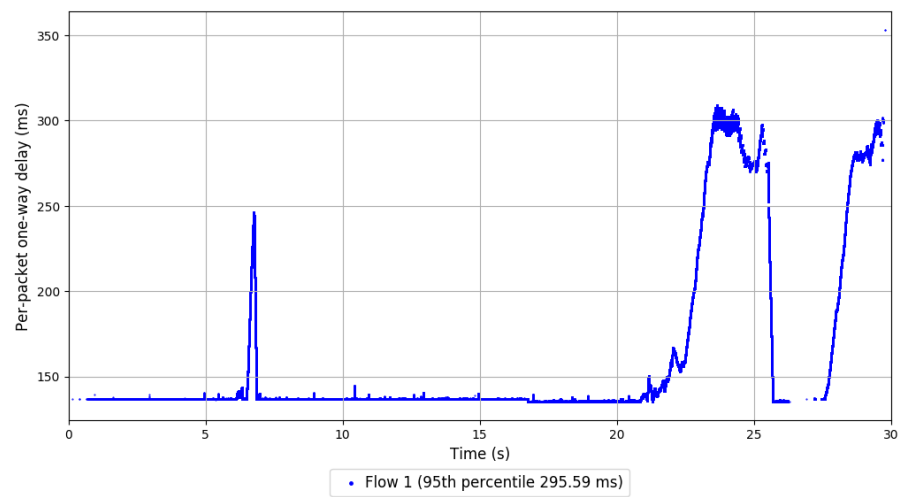
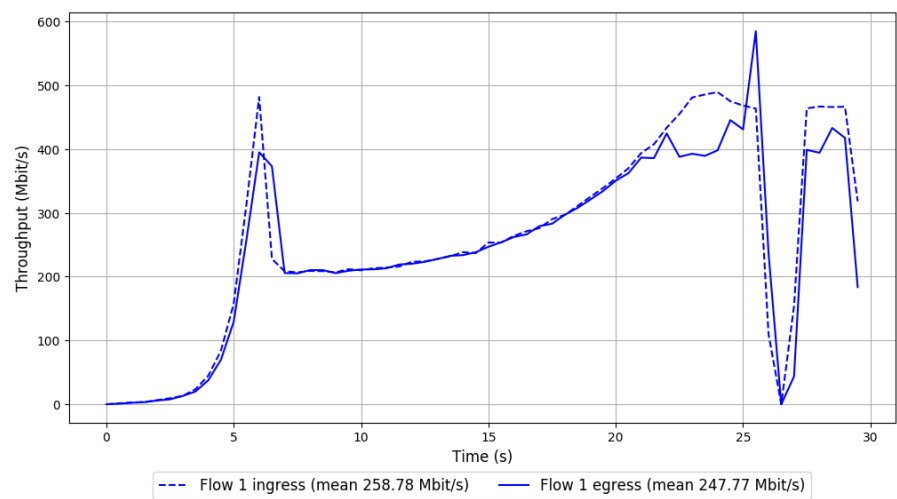
-- Flow 1:

Average throughput: 247.77 Mbit/s

95th percentile per-packet one-way delay: 295.592 ms

Loss rate: 4.96%

Run 4: Report of Vivace-loss — Data Link



Run 5: Statistics of Vivace-loss

Start at: 2018-03-13 13:29:14

End at: 2018-03-13 13:29:44

Below is generated by plot.py at 2018-03-13 18:49:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 131.79 Mbit/s

95th percentile per-packet one-way delay: 312.780 ms

Loss rate: 9.29%

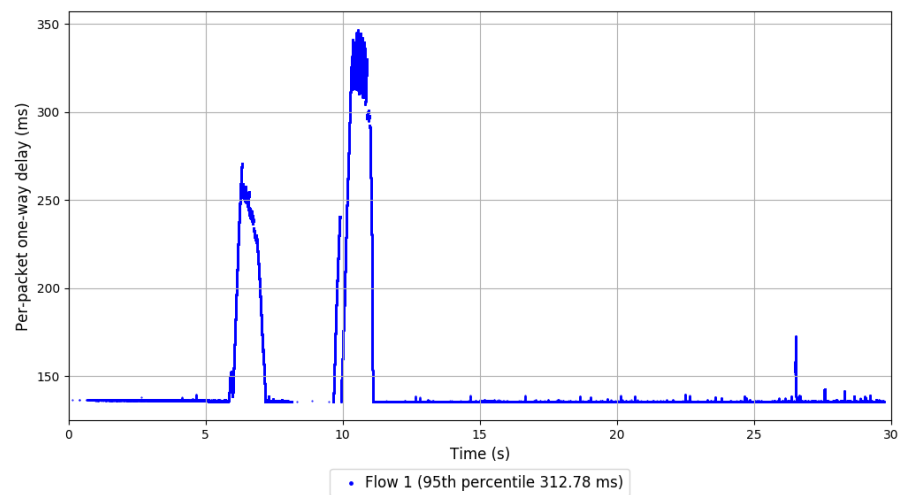
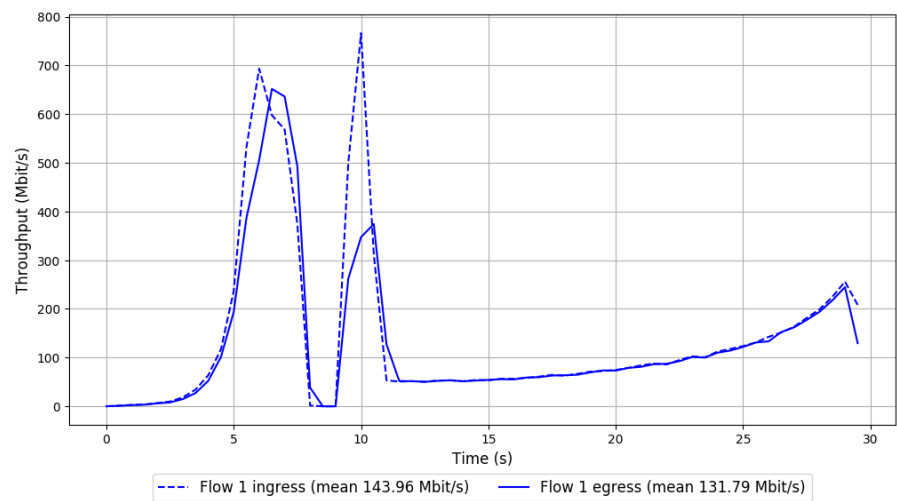
-- Flow 1:

Average throughput: 131.79 Mbit/s

95th percentile per-packet one-way delay: 312.780 ms

Loss rate: 9.29%

Run 5: Report of Vivace-loss — Data Link



Run 6: Statistics of Vivace-loss

Start at: 2018-03-13 13:44:52

End at: 2018-03-13 13:45:22

Below is generated by plot.py at 2018-03-13 18:49:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 135.80 Mbit/s

95th percentile per-packet one-way delay: 285.636 ms

Loss rate: 8.54%

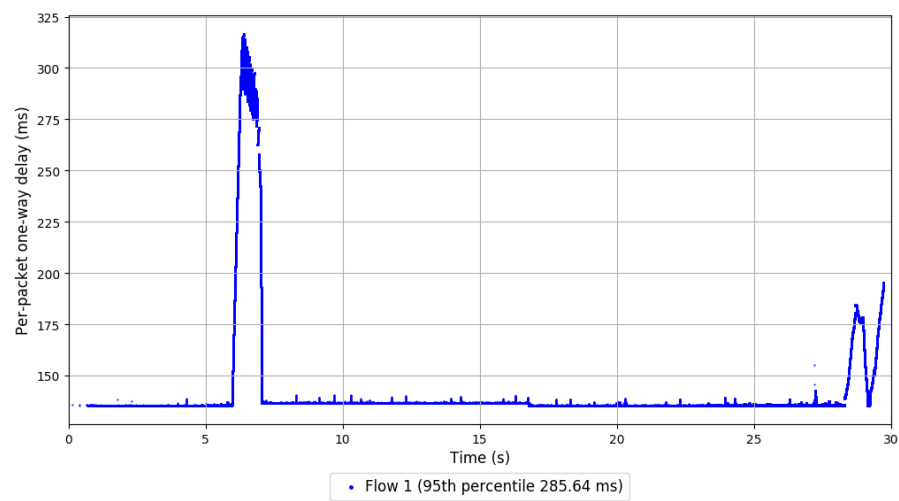
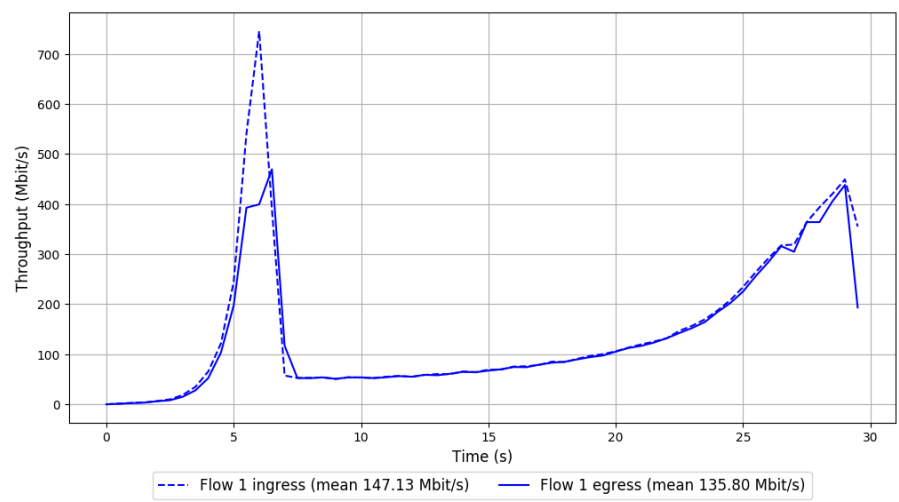
-- Flow 1:

Average throughput: 135.80 Mbit/s

95th percentile per-packet one-way delay: 285.636 ms

Loss rate: 8.54%

Run 6: Report of Vivace-loss — Data Link



Run 7: Statistics of Vivace-loss

Start at: 2018-03-13 14:00:12

End at: 2018-03-13 14:00:42

Below is generated by plot.py at 2018-03-13 18:49:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 167.41 Mbit/s

95th percentile per-packet one-way delay: 221.733 ms

Loss rate: 3.85%

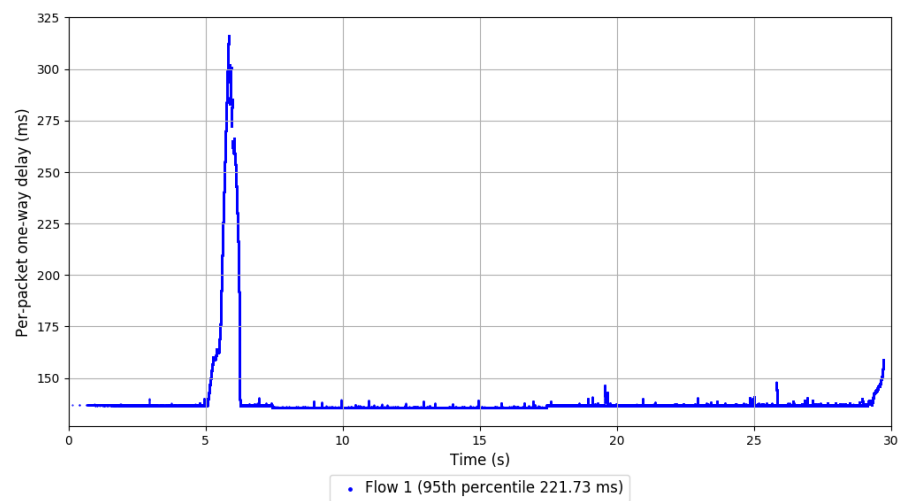
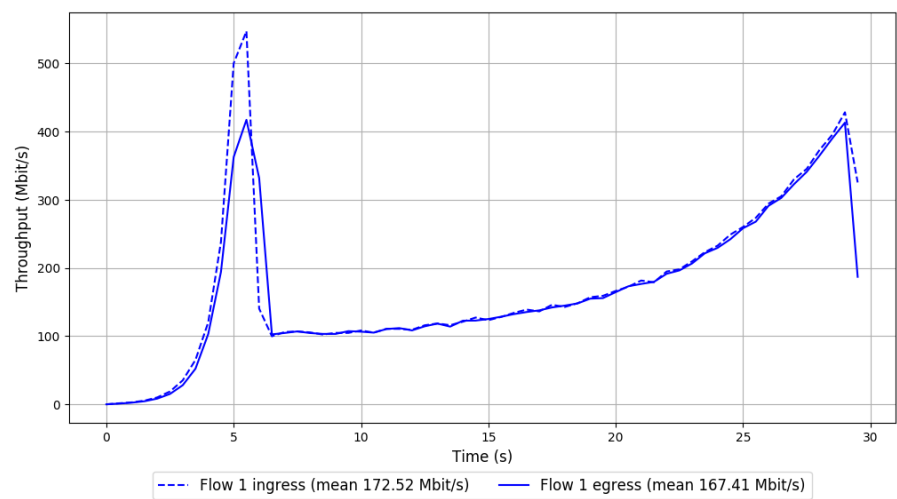
-- Flow 1:

Average throughput: 167.41 Mbit/s

95th percentile per-packet one-way delay: 221.733 ms

Loss rate: 3.85%

Run 7: Report of Vivace-loss — Data Link



Run 8: Statistics of Vivace-loss

Start at: 2018-03-13 14:15:29

End at: 2018-03-13 14:15:59

Below is generated by plot.py at 2018-03-13 18:49:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 124.07 Mbit/s

95th percentile per-packet one-way delay: 313.169 ms

Loss rate: 10.85%

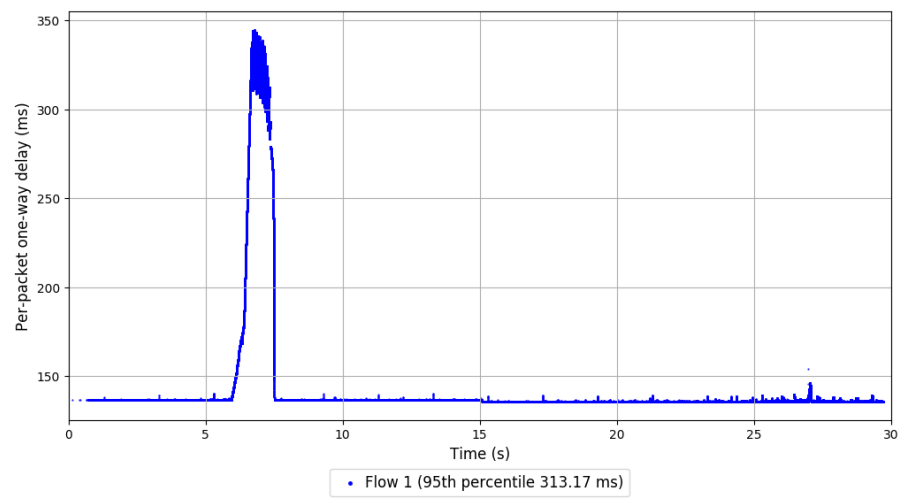
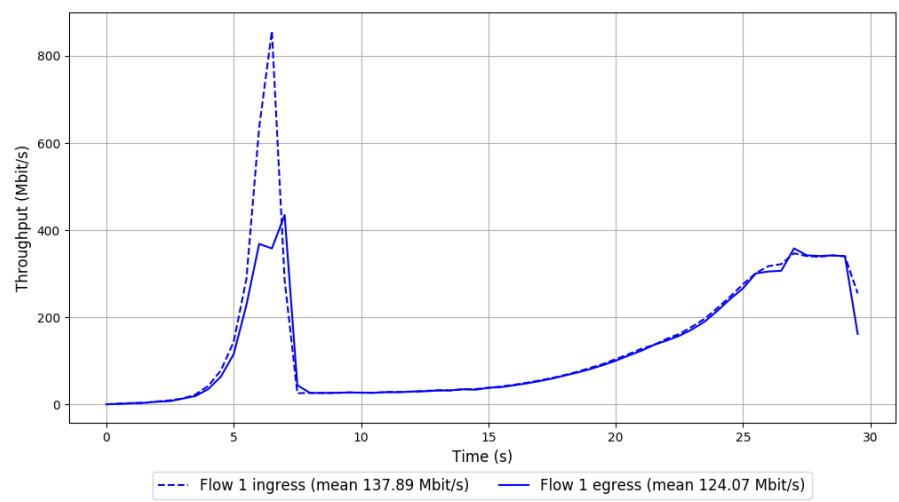
-- Flow 1:

Average throughput: 124.07 Mbit/s

95th percentile per-packet one-way delay: 313.169 ms

Loss rate: 10.85%

Run 8: Report of Vivace-loss — Data Link



Run 9: Statistics of Vivace-loss

Start at: 2018-03-13 14:30:52

End at: 2018-03-13 14:31:22

Below is generated by plot.py at 2018-03-13 18:49:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 138.69 Mbit/s

95th percentile per-packet one-way delay: 305.884 ms

Loss rate: 11.21%

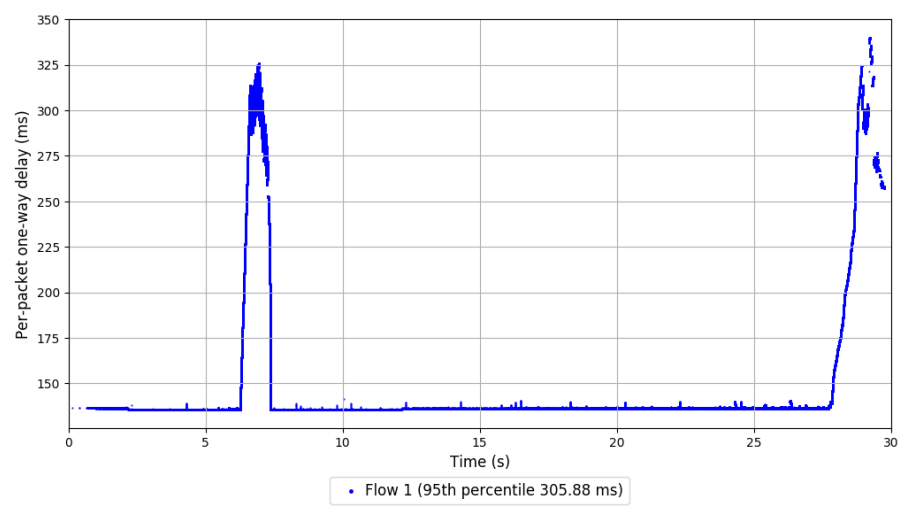
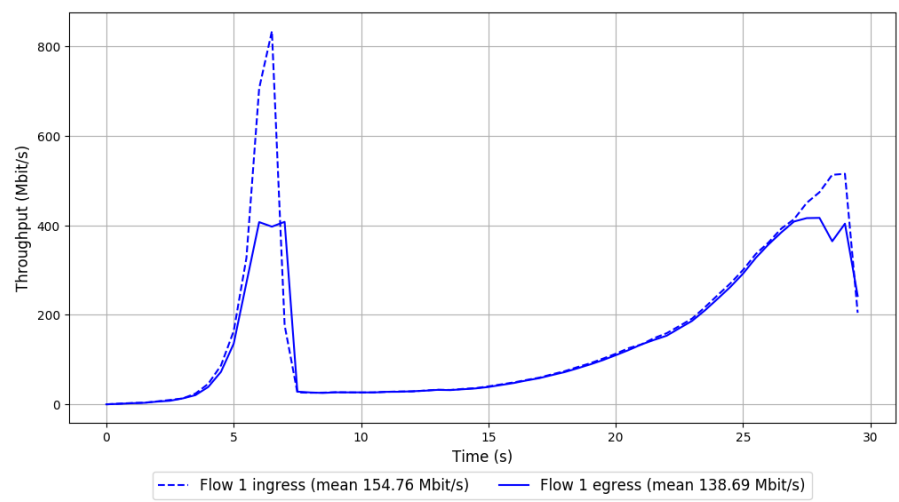
-- Flow 1:

Average throughput: 138.69 Mbit/s

95th percentile per-packet one-way delay: 305.884 ms

Loss rate: 11.21%

Run 9: Report of Vivace-loss — Data Link



Run 10: Statistics of Vivace-loss

Start at: 2018-03-13 14:46:29

End at: 2018-03-13 14:46:59

Below is generated by plot.py at 2018-03-13 18:49:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 161.19 Mbit/s

95th percentile per-packet one-way delay: 248.048 ms

Loss rate: 5.10%

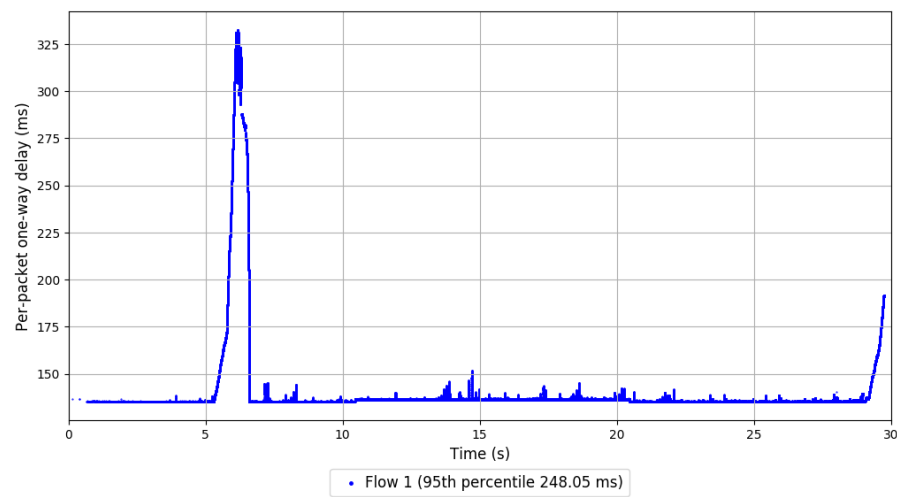
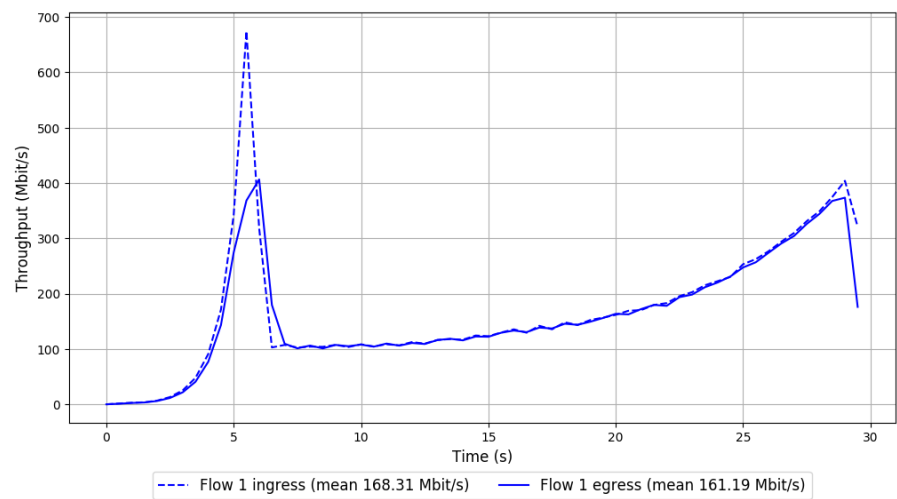
-- Flow 1:

Average throughput: 161.19 Mbit/s

95th percentile per-packet one-way delay: 248.048 ms

Loss rate: 5.10%

Run 10: Report of Vivace-loss — Data Link



Run 1: Statistics of Vivace-LTE

Start at: 2018-03-13 12:22:59

End at: 2018-03-13 12:23:29

Below is generated by plot.py at 2018-03-13 18:49:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 161.37 Mbit/s

95th percentile per-packet one-way delay: 249.618 ms

Loss rate: 5.05%

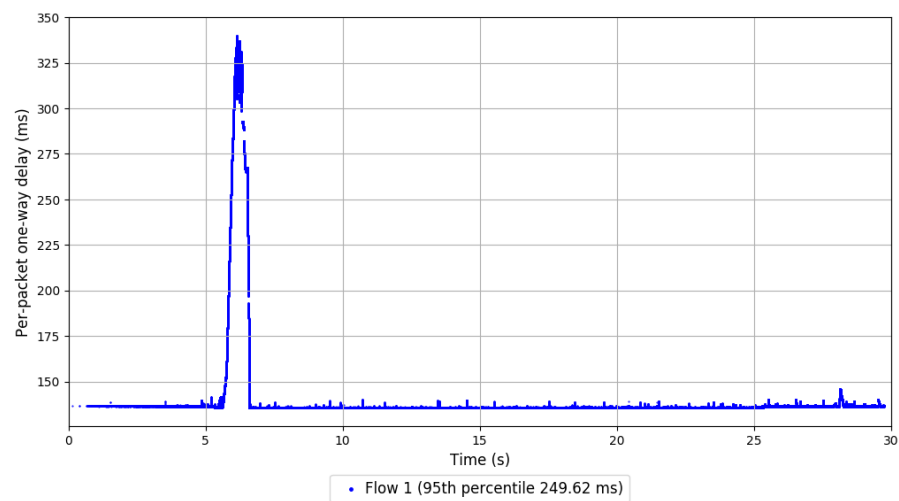
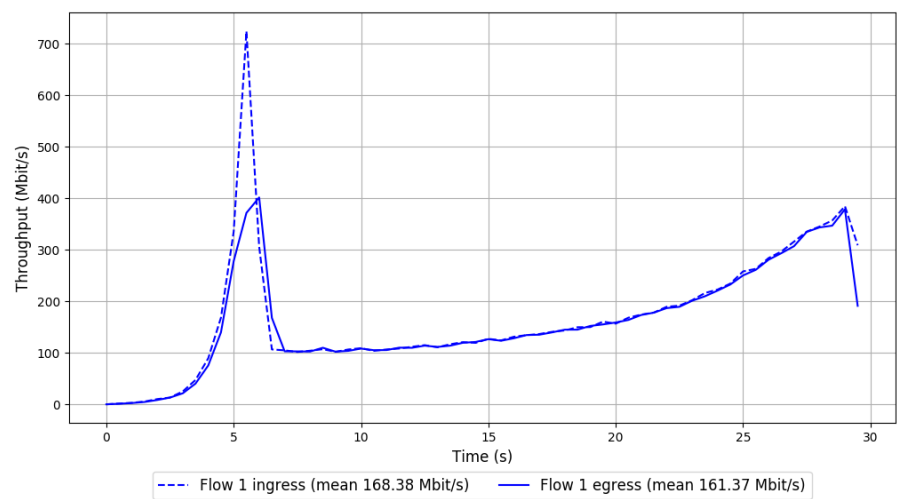
-- Flow 1:

Average throughput: 161.37 Mbit/s

95th percentile per-packet one-way delay: 249.618 ms

Loss rate: 5.05%

Run 1: Report of Vivace-LTE — Data Link



Run 2: Statistics of Vivace-LTE

Start at: 2018-03-13 12:38:37

End at: 2018-03-13 12:39:07

Below is generated by plot.py at 2018-03-13 18:49:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 160.44 Mbit/s

95th percentile per-packet one-way delay: 210.611 ms

Loss rate: 4.42%

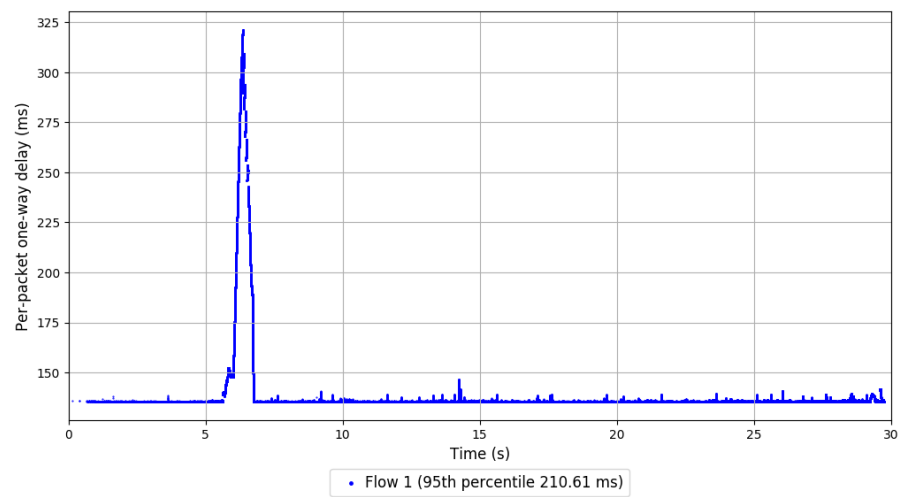
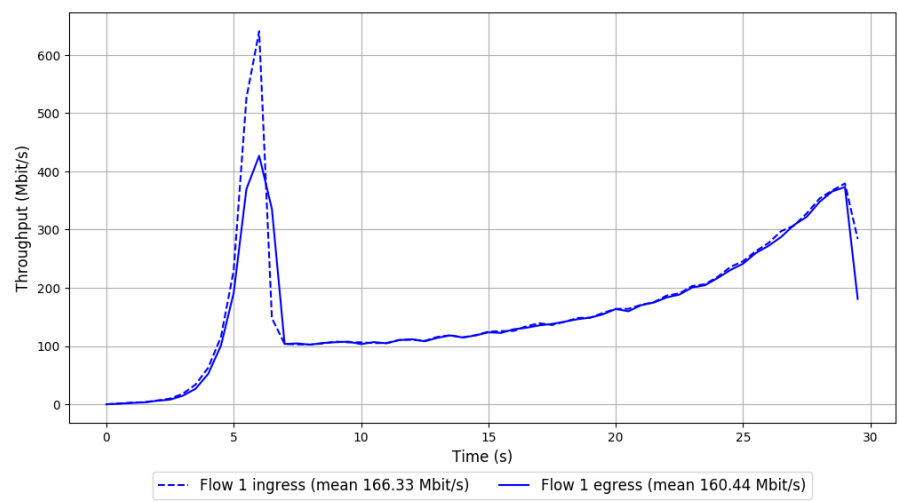
-- Flow 1:

Average throughput: 160.44 Mbit/s

95th percentile per-packet one-way delay: 210.611 ms

Loss rate: 4.42%

Run 2: Report of Vivace-LTE — Data Link



Run 3: Statistics of Vivace-LTE

Start at: 2018-03-13 12:53:59

End at: 2018-03-13 12:54:29

Below is generated by plot.py at 2018-03-13 18:53:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 320.74 Mbit/s

95th percentile per-packet one-way delay: 152.401 ms

Loss rate: 1.43%

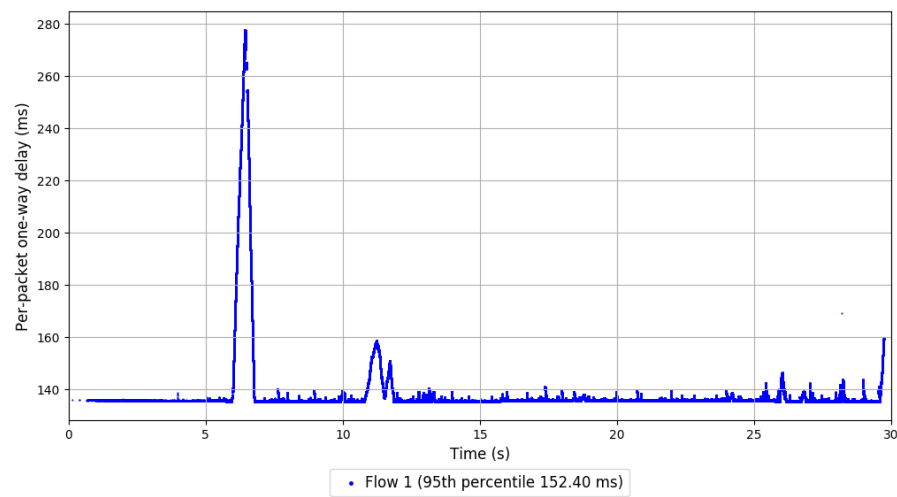
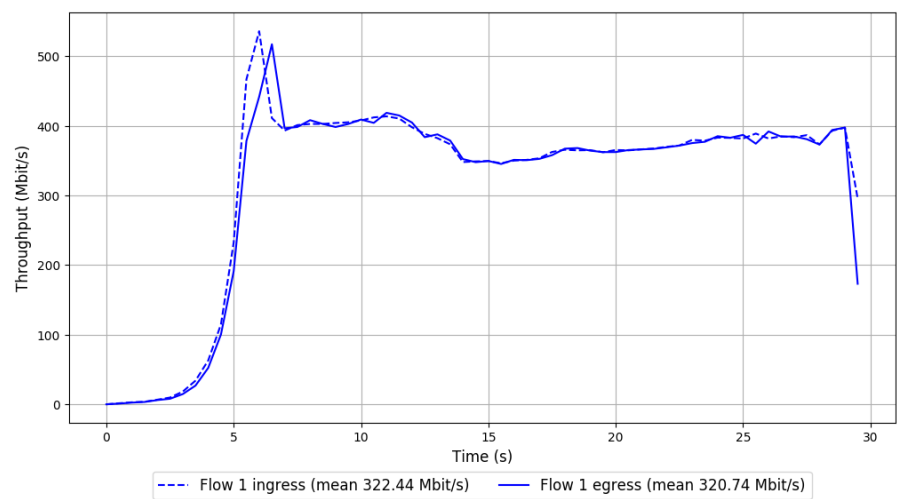
-- Flow 1:

Average throughput: 320.74 Mbit/s

95th percentile per-packet one-way delay: 152.401 ms

Loss rate: 1.43%

Run 3: Report of Vivace-LTE — Data Link



Run 4: Statistics of Vivace-LTE

Start at: 2018-03-13 13:09:34

End at: 2018-03-13 13:10:04

Below is generated by plot.py at 2018-03-13 18:53:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 317.23 Mbit/s

95th percentile per-packet one-way delay: 165.585 ms

Loss rate: 1.57%

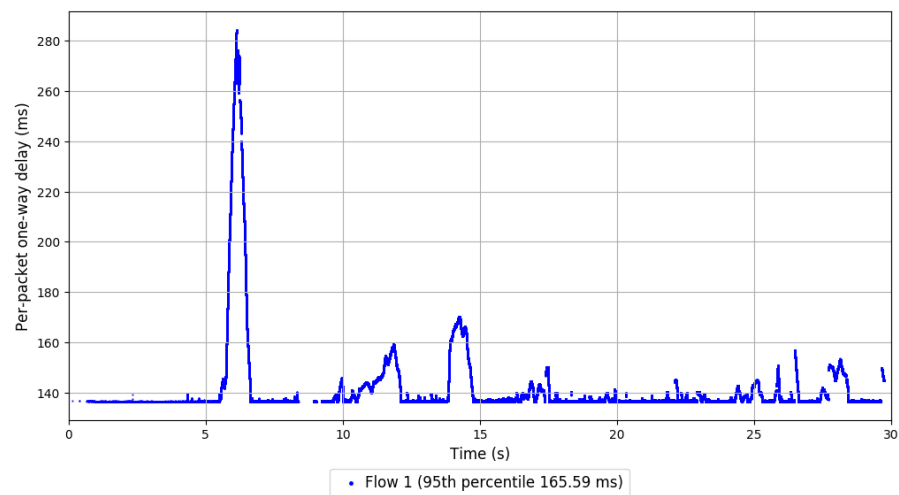
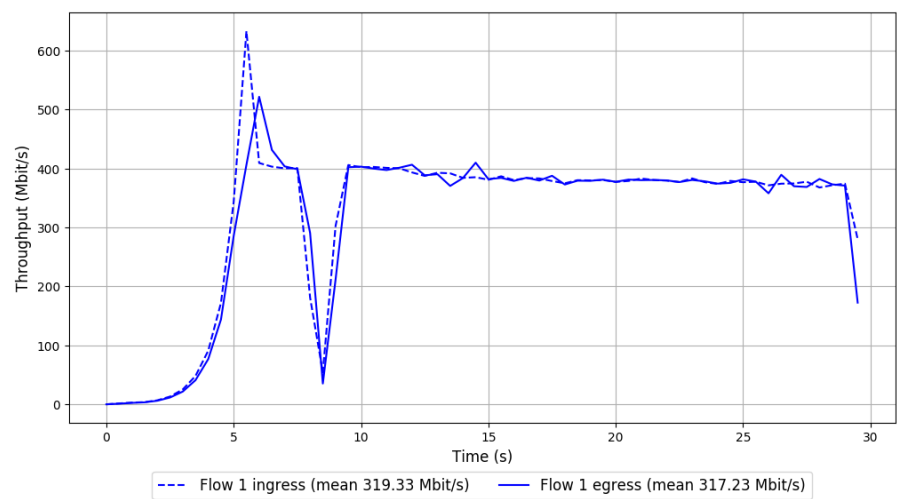
-- Flow 1:

Average throughput: 317.23 Mbit/s

95th percentile per-packet one-way delay: 165.585 ms

Loss rate: 1.57%

Run 4: Report of Vivace-LTE — Data Link



Run 5: Statistics of Vivace-LTE

Start at: 2018-03-13 13:25:27

End at: 2018-03-13 13:25:57

Below is generated by plot.py at 2018-03-13 18:53:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 261.44 Mbit/s

95th percentile per-packet one-way delay: 162.983 ms

Loss rate: 2.32%

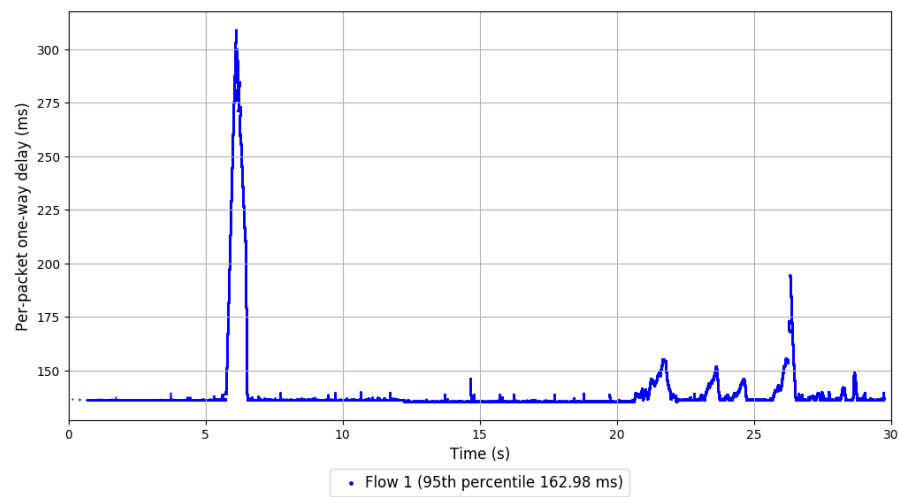
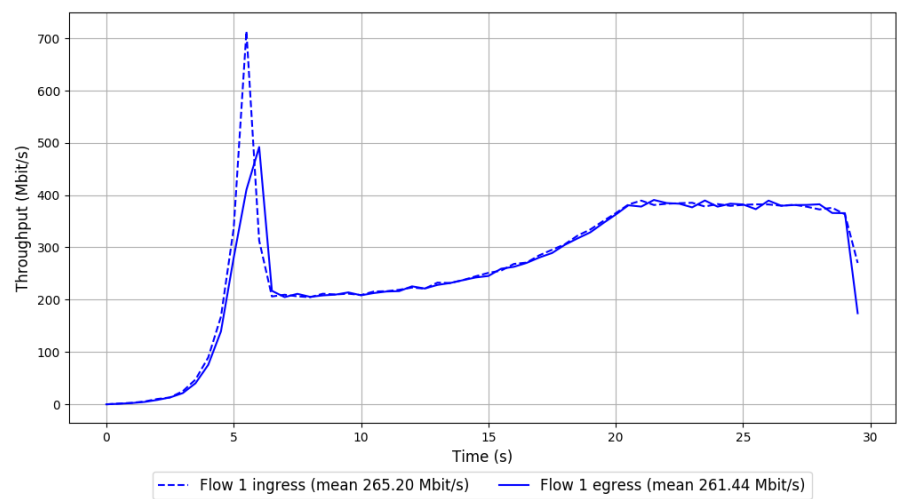
-- Flow 1:

Average throughput: 261.44 Mbit/s

95th percentile per-packet one-way delay: 162.983 ms

Loss rate: 2.32%

Run 5: Report of Vivace-LTE — Data Link



Run 6: Statistics of Vivace-LTE

Start at: 2018-03-13 13:40:59

End at: 2018-03-13 13:41:29

Below is generated by plot.py at 2018-03-13 18:54:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 320.56 Mbit/s

95th percentile per-packet one-way delay: 183.433 ms

Loss rate: 1.67%

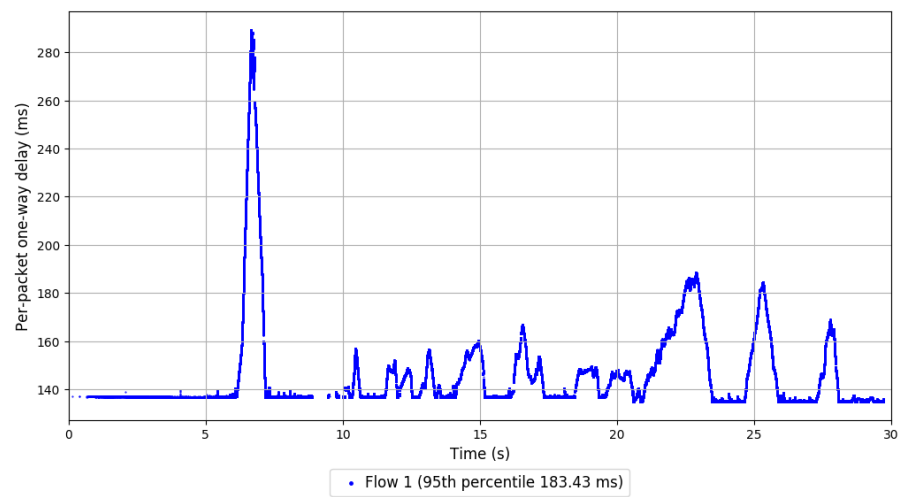
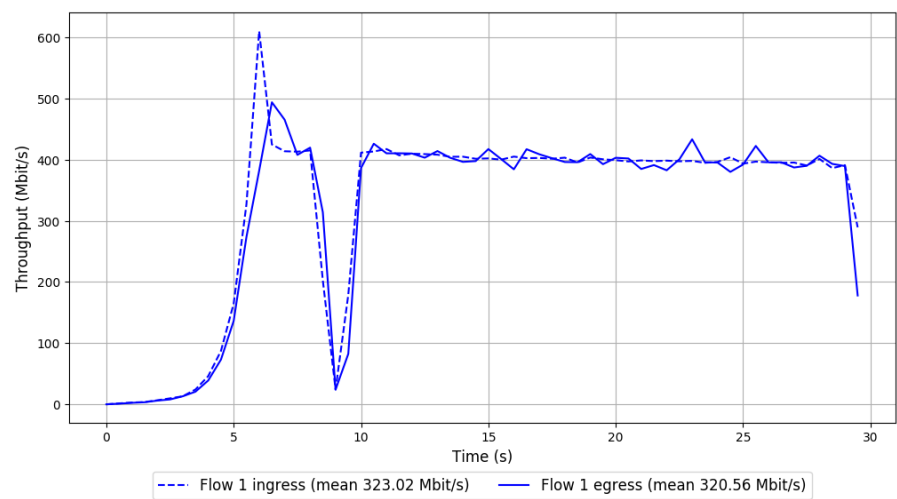
-- Flow 1:

Average throughput: 320.56 Mbit/s

95th percentile per-packet one-way delay: 183.433 ms

Loss rate: 1.67%

Run 6: Report of Vivace-LTE — Data Link



Run 7: Statistics of Vivace-LTE

Start at: 2018-03-13 13:56:18

End at: 2018-03-13 13:56:48

Below is generated by plot.py at 2018-03-13 18:54:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 326.68 Mbit/s

95th percentile per-packet one-way delay: 264.621 ms

Loss rate: 1.18%

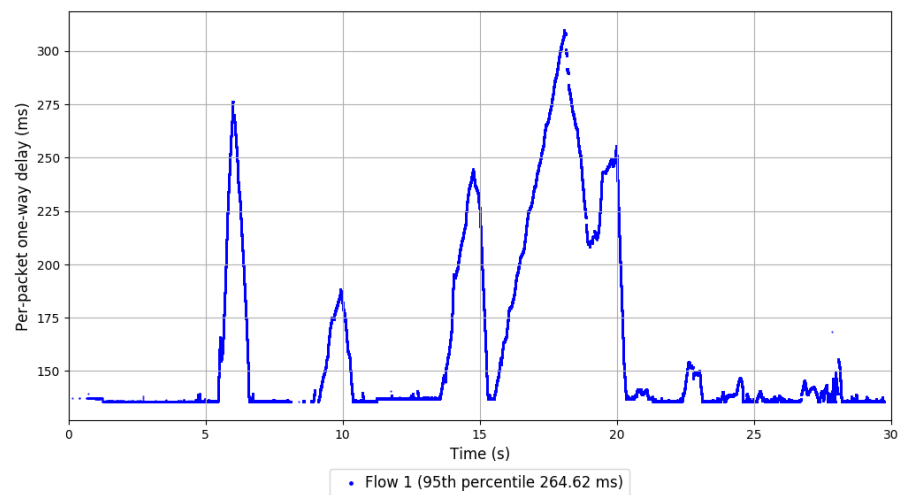
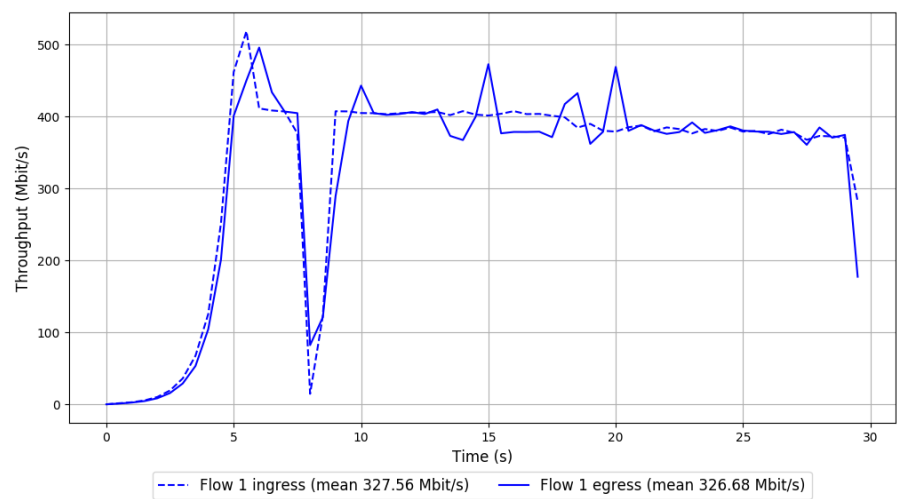
-- Flow 1:

Average throughput: 326.68 Mbit/s

95th percentile per-packet one-way delay: 264.621 ms

Loss rate: 1.18%

Run 7: Report of Vivace-LTE — Data Link



Run 8: Statistics of Vivace-LTE

Start at: 2018-03-13 14:11:47

End at: 2018-03-13 14:12:17

Below is generated by plot.py at 2018-03-13 18:54:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 136.32 Mbit/s

95th percentile per-packet one-way delay: 267.382 ms

Loss rate: 4.41%

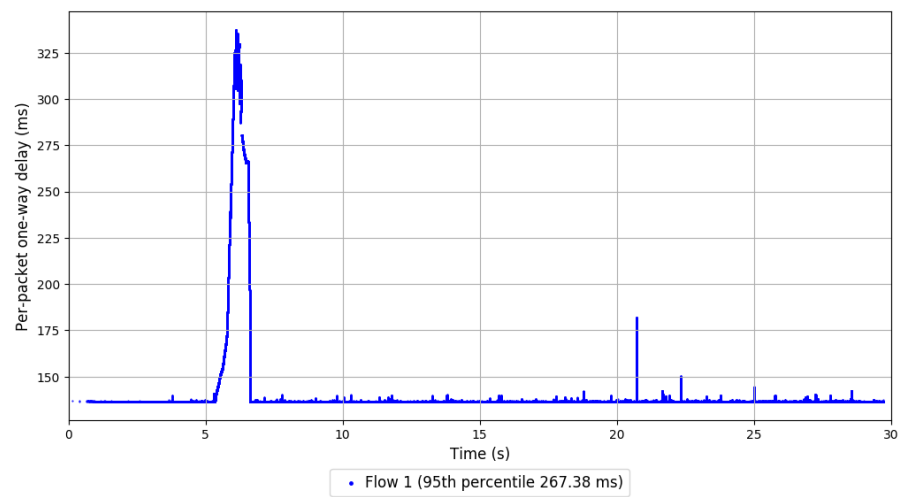
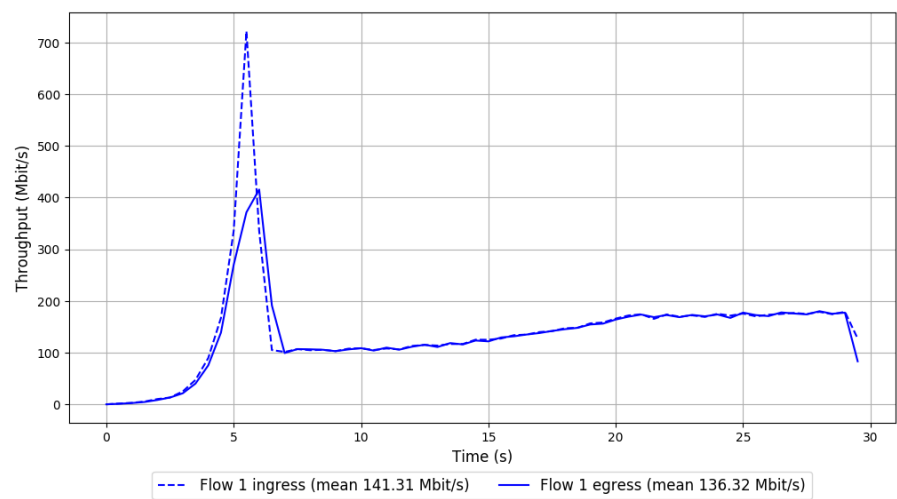
-- Flow 1:

Average throughput: 136.32 Mbit/s

95th percentile per-packet one-way delay: 267.382 ms

Loss rate: 4.41%

Run 8: Report of Vivace-LTE — Data Link



Run 9: Statistics of Vivace-LTE

Start at: 2018-03-13 14:27:10

End at: 2018-03-13 14:27:40

Below is generated by plot.py at 2018-03-13 18:54:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 161.07 Mbit/s

95th percentile per-packet one-way delay: 265.936 ms

Loss rate: 5.00%

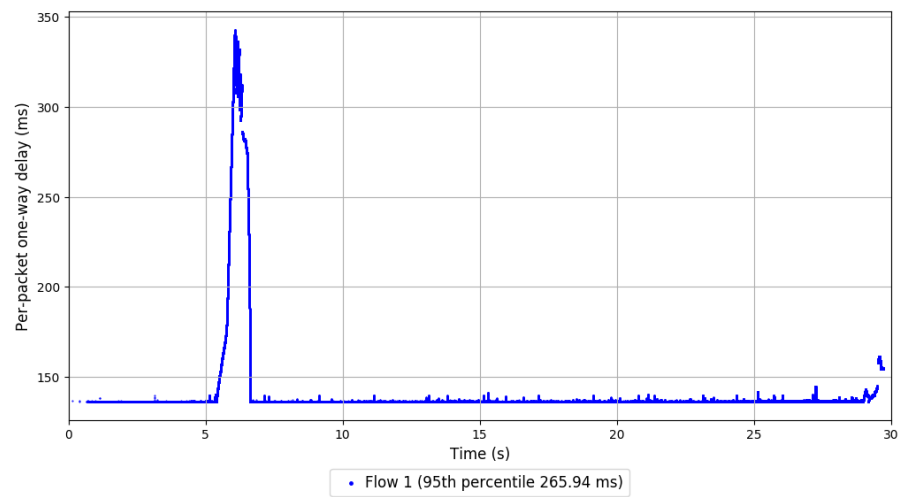
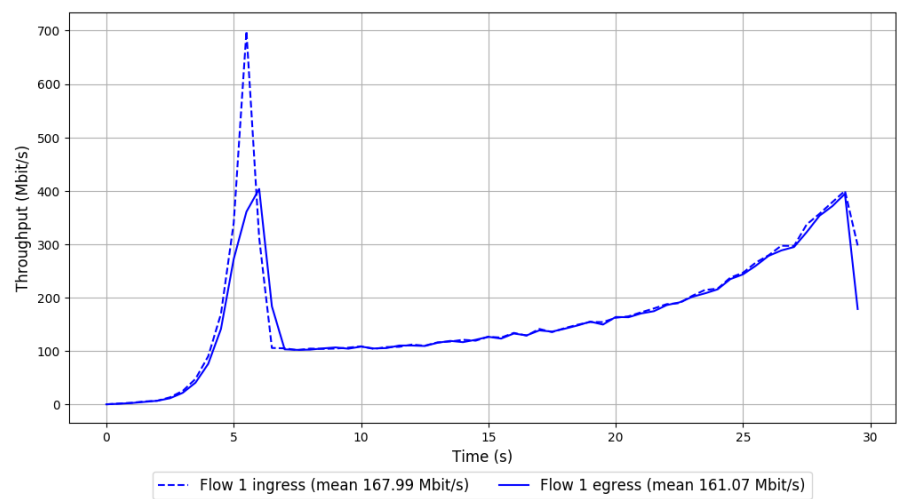
-- Flow 1:

Average throughput: 161.07 Mbit/s

95th percentile per-packet one-way delay: 265.936 ms

Loss rate: 5.00%

Run 9: Report of Vivace-LTE — Data Link



Run 10: Statistics of Vivace-LTE

Start at: 2018-03-13 14:42:40

End at: 2018-03-13 14:43:10

Below is generated by plot.py at 2018-03-13 18:54:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 265.95 Mbit/s

95th percentile per-packet one-way delay: 225.970 ms

Loss rate: 1.45%

-- Flow 1:

Average throughput: 265.95 Mbit/s

95th percentile per-packet one-way delay: 225.970 ms

Loss rate: 1.45%

Run 10: Report of Vivace-LTE — Data Link

