

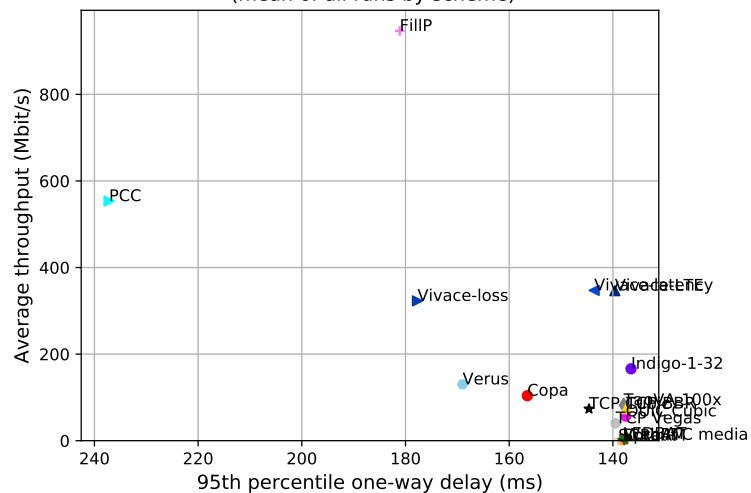
Pantheon Report

Generated at 2018-02-16 22:41:36 (UTC).
Data path: GCE Sydney Ethernet (*local*) → GCE London Ethernet (*remote*).
Repeated the test of 17 congestion control schemes 10 times.
Each test lasted for 30 seconds running 1 flow.
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo_fast**).

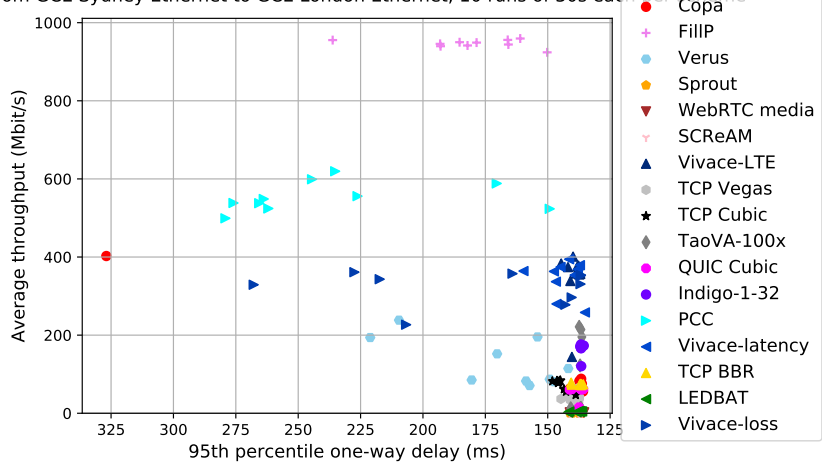
Git summary:

```
branch: master @ cccb2d77344969a7bac1df6edf6c0cfb6c77a6f8
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ 828bbf95fd4941149b5cec90f281d1c69ae1a5c6
third_party/genericCC @ 8400b8926887fc4cf8c795a1d7ce2c8ac041ec72
third_party/indigo @ a9b2060d39e4da2e8987e893e3eca2a6c7cd0ab9
third_party/indigo-1-layer-128-unit @ 3ae9e4ef4230db7484501f82ce8b377695f2f66d
third_party/indigo-1-layer-32-unit @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/indigo-1-layer-32-unit-no-calib @ 1f3a7f75b41135ed5b540c0fd3505939528e2a5f
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ fb1053193c2861da659ba9013db26744ccfcf993
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaeab30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/vivace @ 7a4ba531e75b4a6f66f5c4580192120401784ce3
third_party/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

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



test from GCE Sydney Ethernet to GCE London 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	74.13	137.45	0.00
TCP Cubic	10	73.48	144.62	0.04
LEDBAT	10	4.19	138.12	0.00
PCC	10	553.44	237.19	2.31
QUIC Cubic	9	56.22	137.53	0.00
SCReAM	10	0.21	138.97	0.01
WebRTC media	10	2.11	137.80	0.00
Sprout	10	0.40	138.06	0.00
TaoVA-100x	10	82.13	137.93	0.00
TCP Vegas	10	40.14	139.47	0.00
Verus	10	130.08	168.99	0.25
Copa	10	103.93	156.51	2.20
FillP	10	946.52	181.13	0.28
Indigo-1-32	10	166.04	136.51	0.00
Vivace-latency	10	347.24	143.62	0.01
Vivace-loss	10	322.91	177.70	0.59
Vivace-LTE	10	346.57	139.63	0.01

Run 1: Statistics of TCP BBR

Start at: 2018-02-16 17:24:38

End at: 2018-02-16 17:25:08

Below is generated by plot.py at 2018-02-16 21:26:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.32 Mbit/s

95th percentile per-packet one-way delay: 136.721 ms

Loss rate: 0.00%

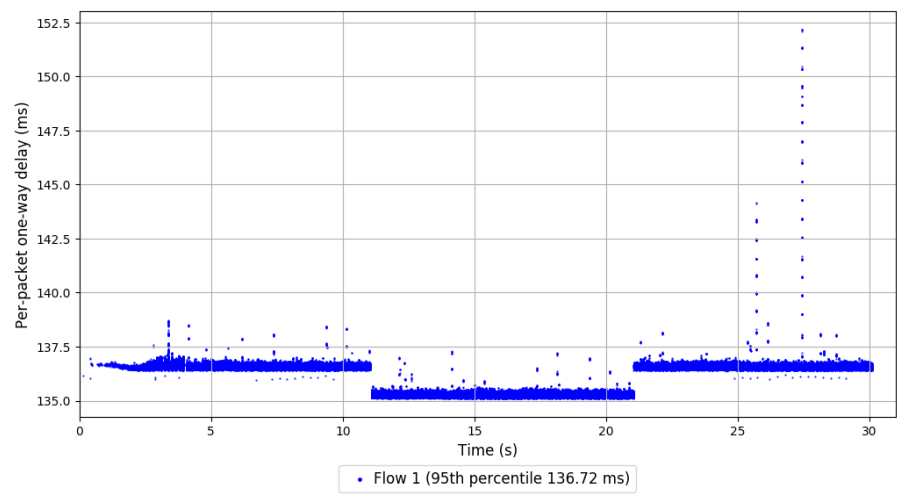
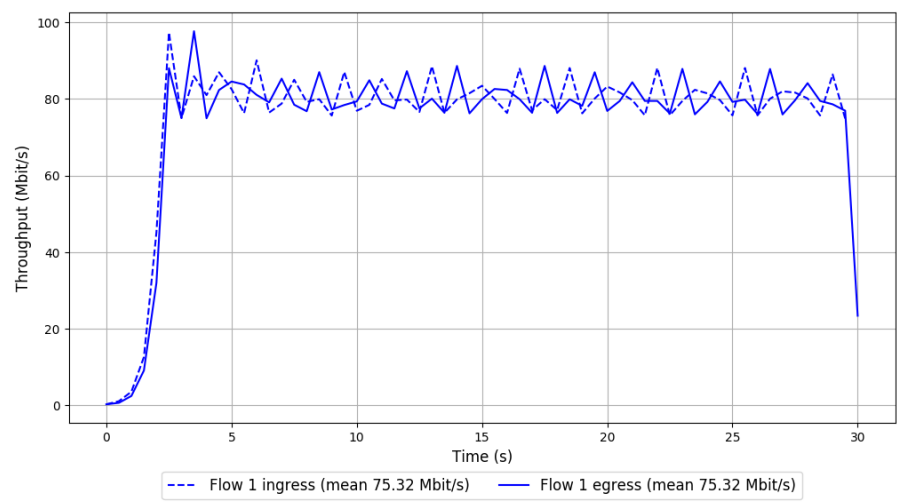
-- Flow 1:

Average throughput: 75.32 Mbit/s

95th percentile per-packet one-way delay: 136.721 ms

Loss rate: 0.00%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-02-16 17:40:29

End at: 2018-02-16 17:40:59

Below is generated by plot.py at 2018-02-16 21:26:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.84 Mbit/s

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

Loss rate: 0.00%

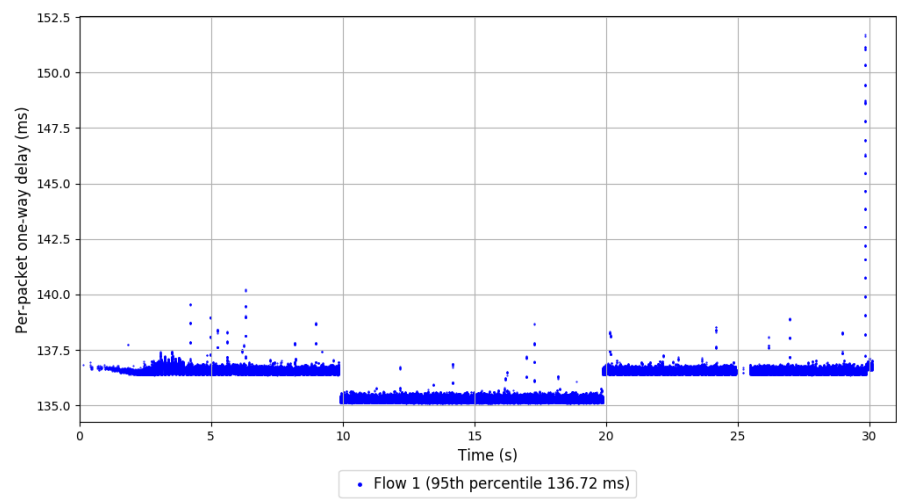
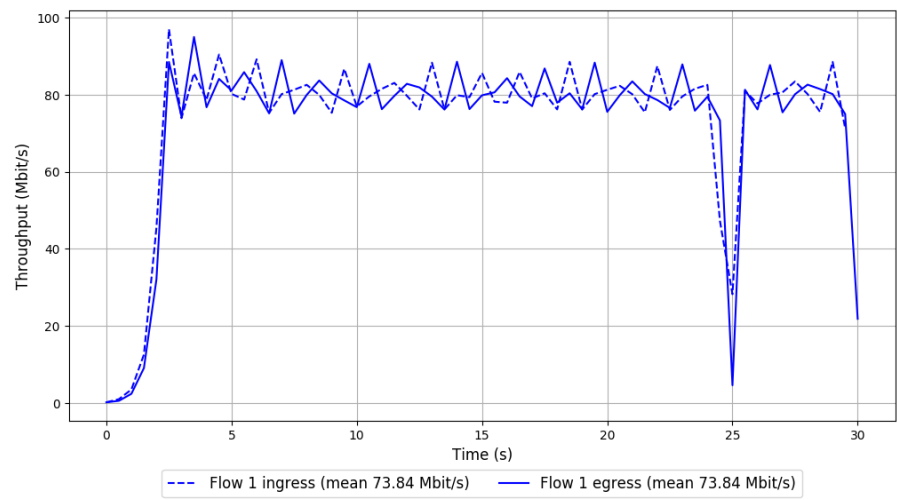
-- Flow 1:

Average throughput: 73.84 Mbit/s

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

Loss rate: 0.00%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

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

End at: 2018-02-16 17:57:32

Below is generated by plot.py at 2018-02-16 21:26:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.27 Mbit/s

95th percentile per-packet one-way delay: 140.364 ms

Loss rate: 0.00%

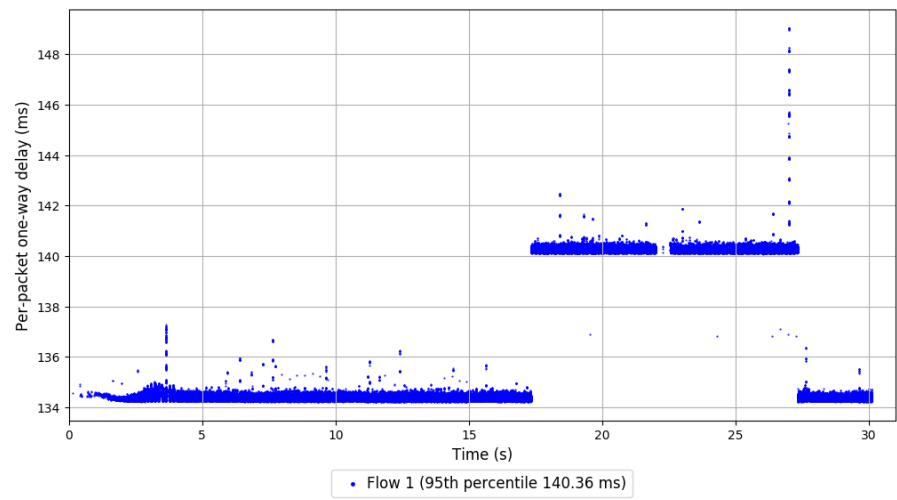
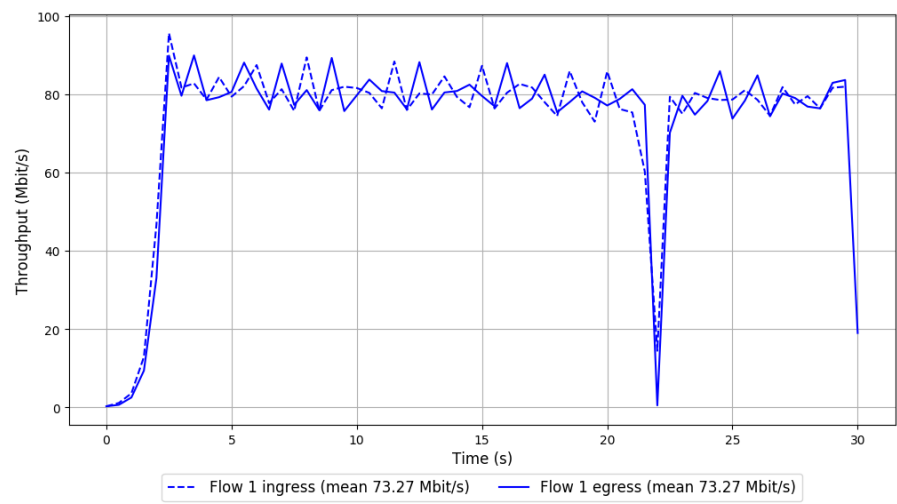
-- Flow 1:

Average throughput: 73.27 Mbit/s

95th percentile per-packet one-way delay: 140.364 ms

Loss rate: 0.00%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-02-16 18:12:37

End at: 2018-02-16 18:13:07

Below is generated by plot.py at 2018-02-16 21:26:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.49 Mbit/s

95th percentile per-packet one-way delay: 140.595 ms

Loss rate: 0.00%

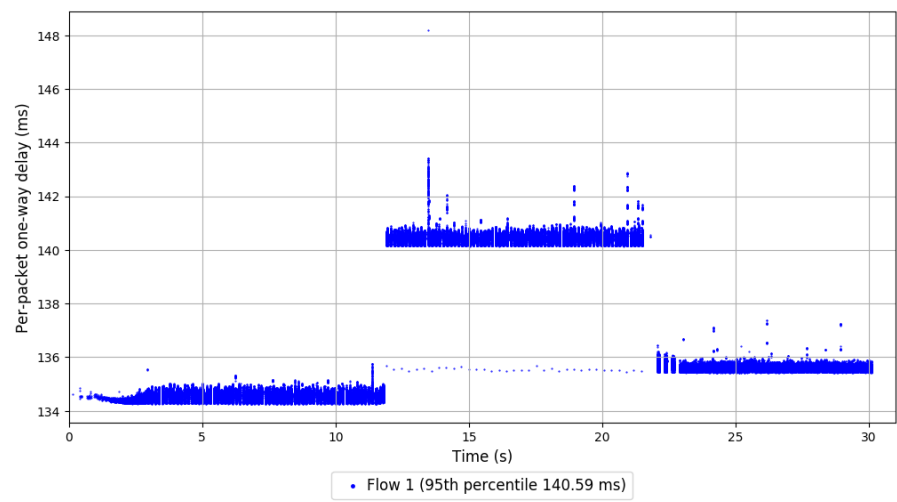
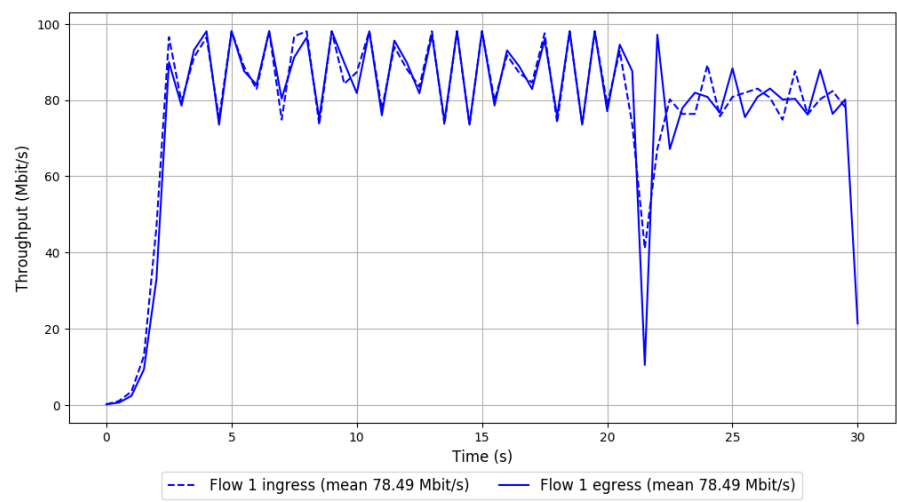
-- Flow 1:

Average throughput: 78.49 Mbit/s

95th percentile per-packet one-way delay: 140.595 ms

Loss rate: 0.00%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-02-16 18:28:37

End at: 2018-02-16 18:29:07

Below is generated by plot.py at 2018-02-16 21:26:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.64 Mbit/s

95th percentile per-packet one-way delay: 136.702 ms

Loss rate: 0.00%

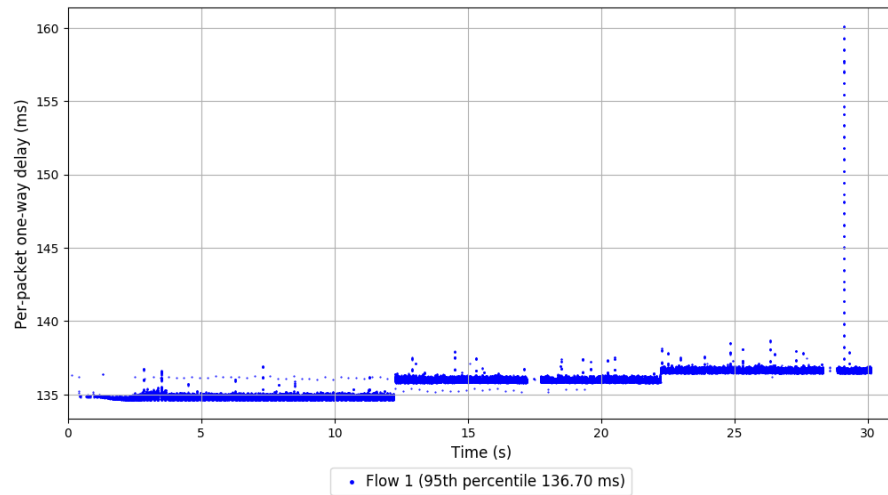
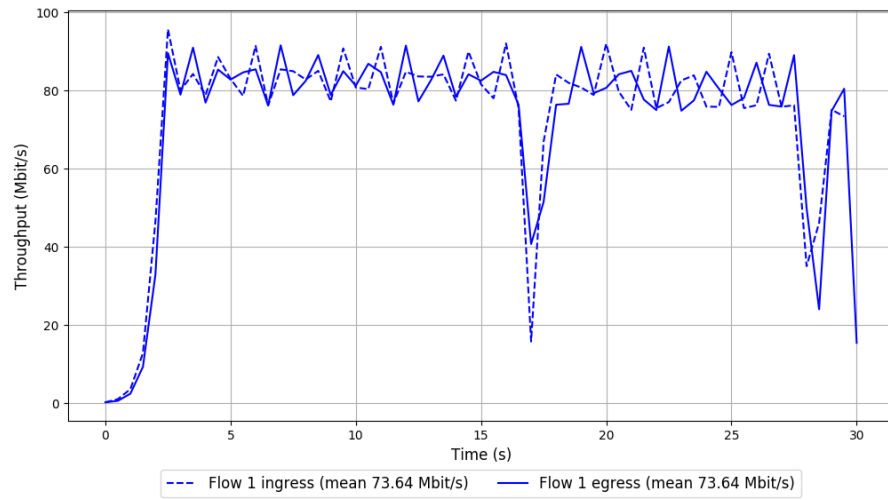
-- Flow 1:

Average throughput: 73.64 Mbit/s

95th percentile per-packet one-way delay: 136.702 ms

Loss rate: 0.00%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-02-16 18:44:41

End at: 2018-02-16 18:45:11

Below is generated by plot.py at 2018-02-16 21:26:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.64 Mbit/s

95th percentile per-packet one-way delay: 137.074 ms

Loss rate: 0.00%

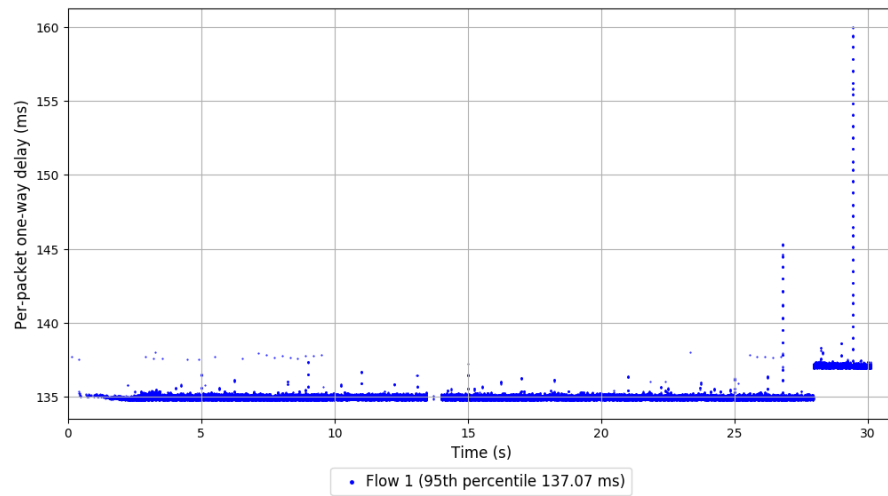
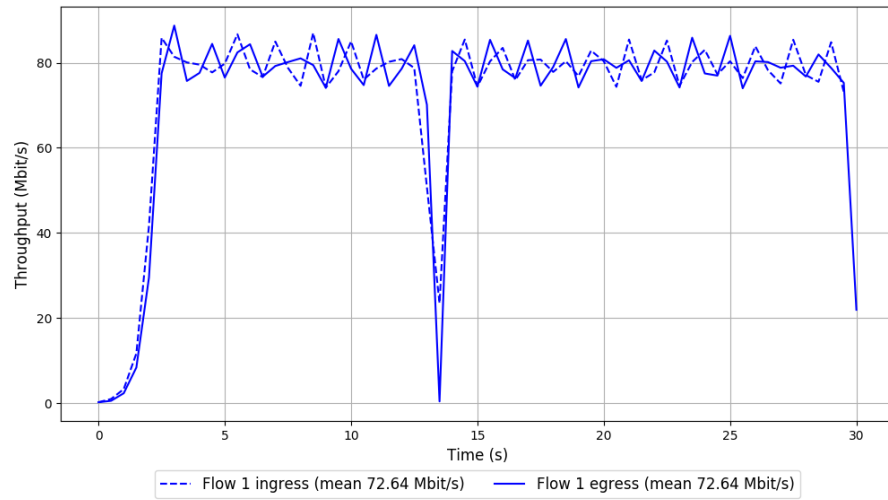
-- Flow 1:

Average throughput: 72.64 Mbit/s

95th percentile per-packet one-way delay: 137.074 ms

Loss rate: 0.00%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-02-16 19:00:57

End at: 2018-02-16 19:01:27

Below is generated by plot.py at 2018-02-16 21:26:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.40 Mbit/s

95th percentile per-packet one-way delay: 137.086 ms

Loss rate: 0.00%

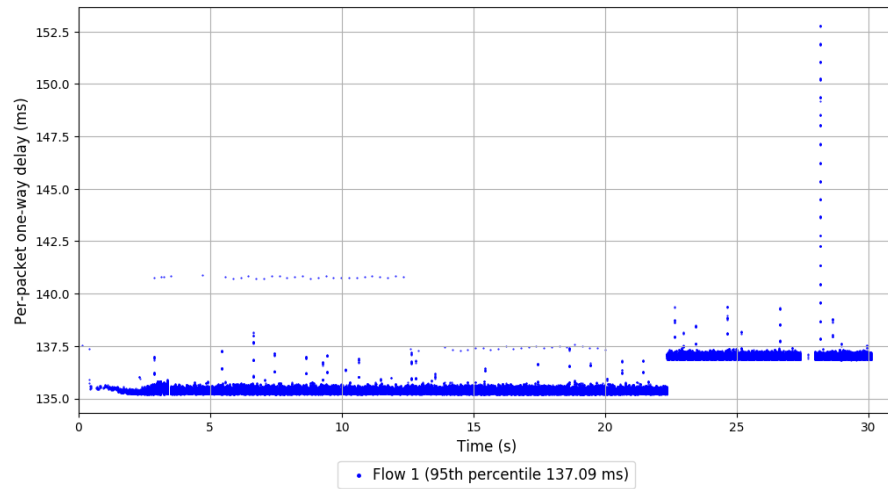
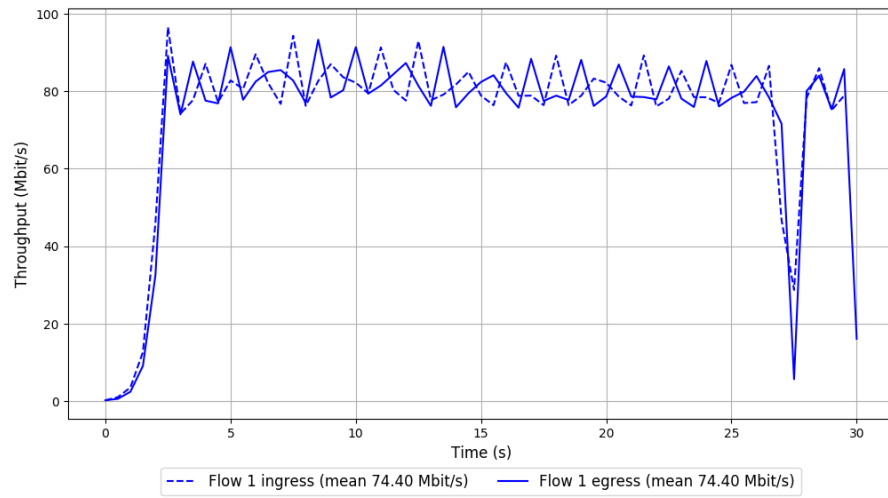
-- Flow 1:

Average throughput: 74.40 Mbit/s

95th percentile per-packet one-way delay: 137.086 ms

Loss rate: 0.00%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-02-16 19:17:31

End at: 2018-02-16 19:18:01

Below is generated by plot.py at 2018-02-16 21:26:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.35 Mbit/s

95th percentile per-packet one-way delay: 136.834 ms

Loss rate: 0.00%

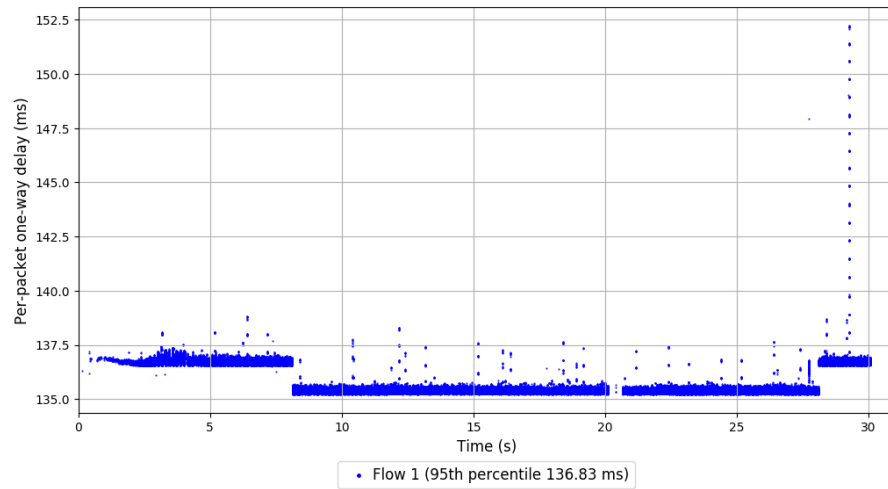
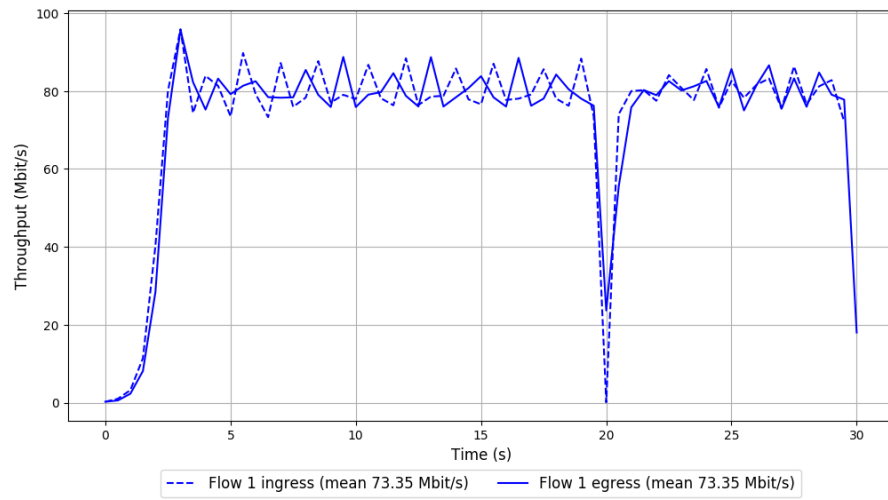
-- Flow 1:

Average throughput: 73.35 Mbit/s

95th percentile per-packet one-way delay: 136.834 ms

Loss rate: 0.00%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-02-16 19:33:57

End at: 2018-02-16 19:34:27

Below is generated by plot.py at 2018-02-16 21:27:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.08 Mbit/s

95th percentile per-packet one-way delay: 136.568 ms

Loss rate: 0.00%

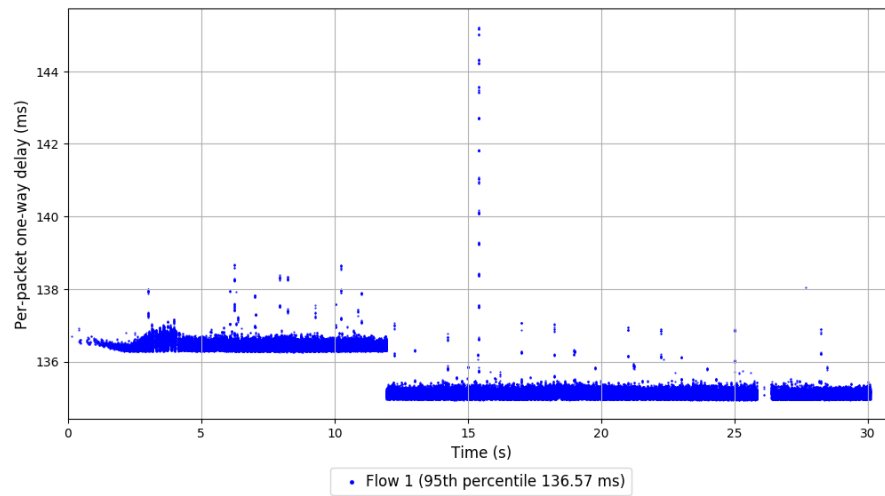
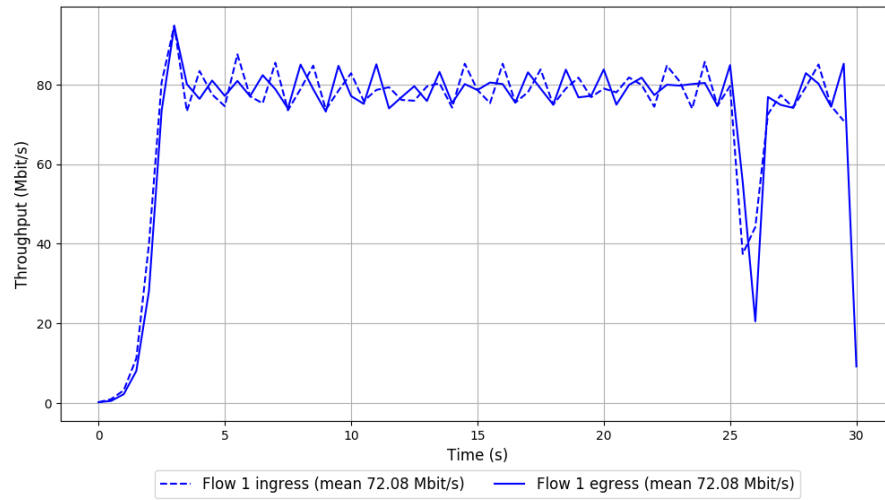
-- Flow 1:

Average throughput: 72.08 Mbit/s

95th percentile per-packet one-way delay: 136.568 ms

Loss rate: 0.00%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-02-16 19:50:16

End at: 2018-02-16 19:50:46

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.24 Mbit/s

95th percentile per-packet one-way delay: 135.798 ms

Loss rate: 0.00%

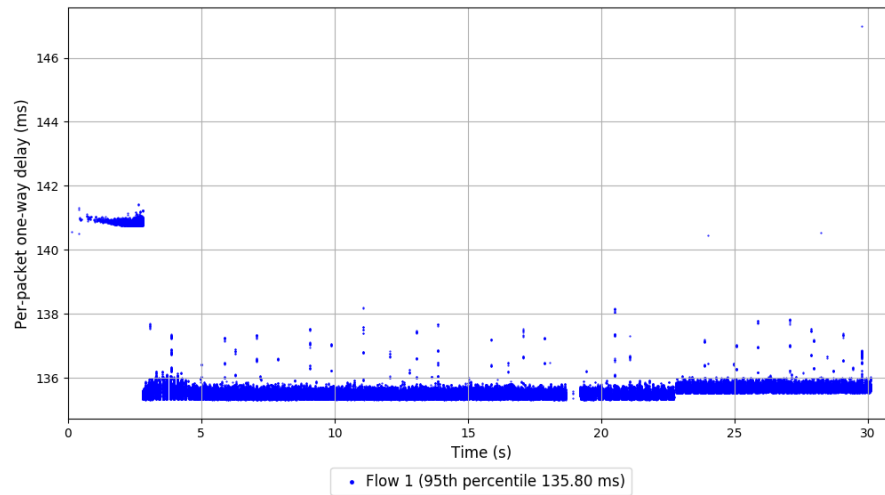
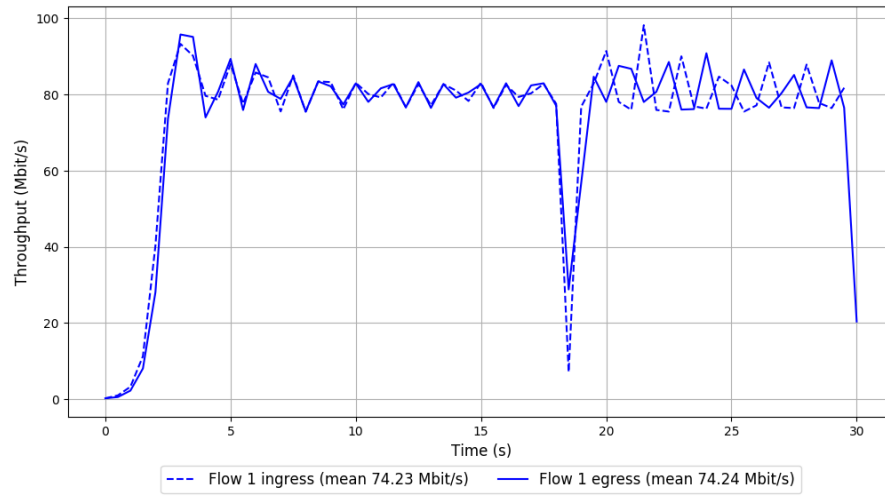
-- Flow 1:

Average throughput: 74.24 Mbit/s

95th percentile per-packet one-way delay: 135.798 ms

Loss rate: 0.00%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-02-16 17:21:27

End at: 2018-02-16 17:21:57

Below is generated by plot.py at 2018-02-16 21:28:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 81.53 Mbit/s

95th percentile per-packet one-way delay: 145.443 ms

Loss rate: 0.20%

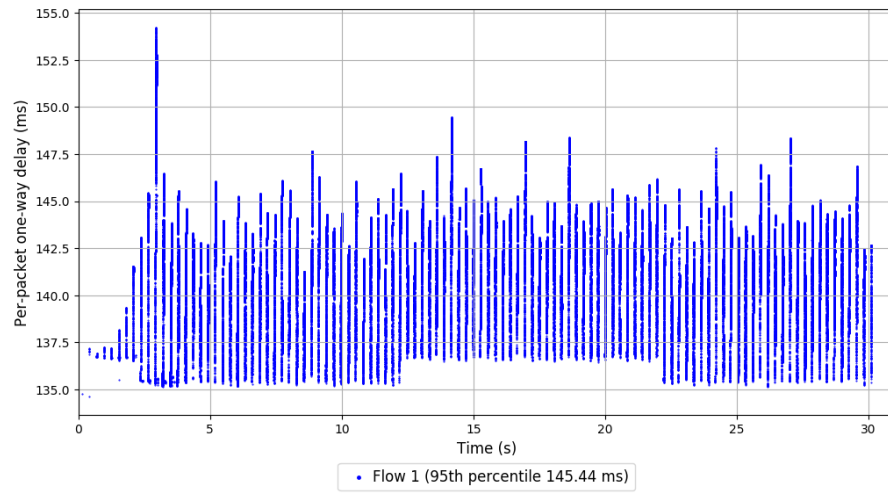
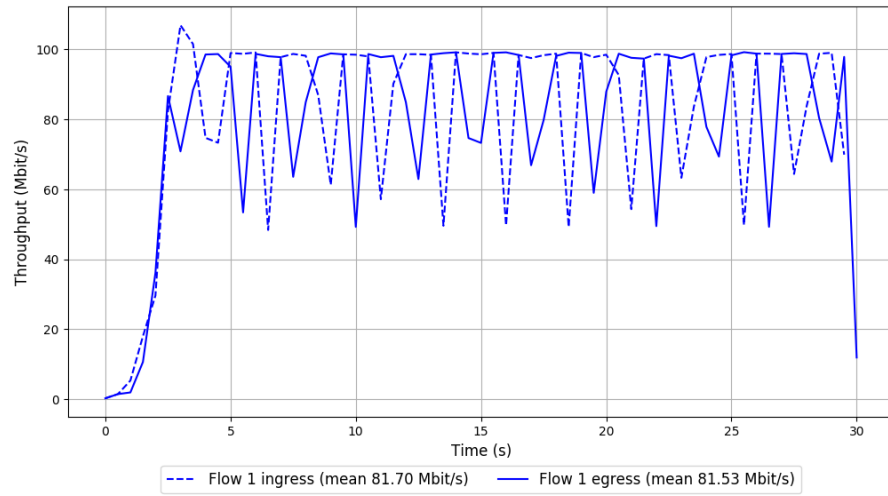
-- Flow 1:

Average throughput: 81.53 Mbit/s

95th percentile per-packet one-way delay: 145.443 ms

Loss rate: 0.20%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-02-16 17:37:14

End at: 2018-02-16 17:37:44

Below is generated by plot.py at 2018-02-16 21:28:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.94 Mbit/s

95th percentile per-packet one-way delay: 146.297 ms

Loss rate: 0.00%

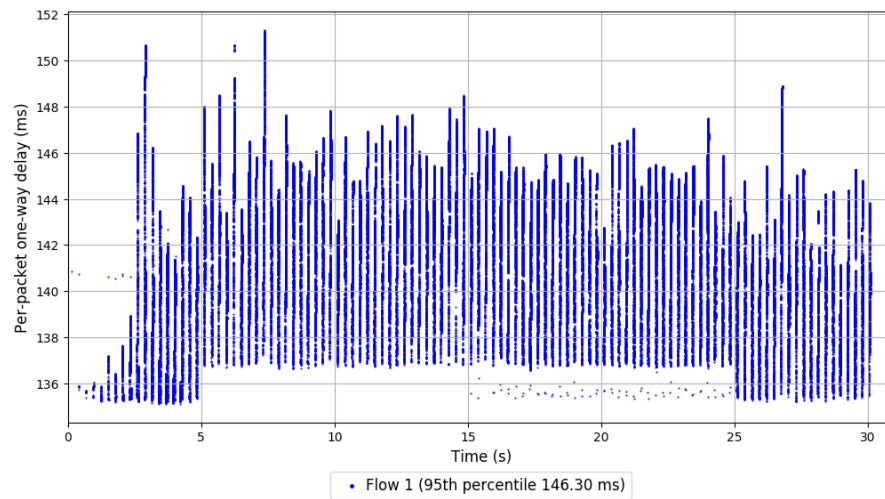
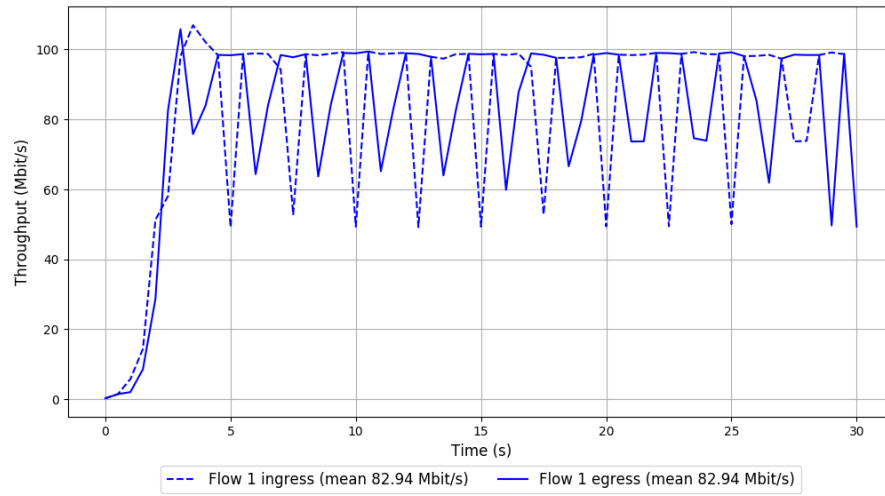
-- Flow 1:

Average throughput: 82.94 Mbit/s

95th percentile per-packet one-way delay: 146.297 ms

Loss rate: 0.00%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-02-16 17:53:23

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

Below is generated by plot.py at 2018-02-16 21:28:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 81.99 Mbit/s

95th percentile per-packet one-way delay: 148.133 ms

Loss rate: 0.06%

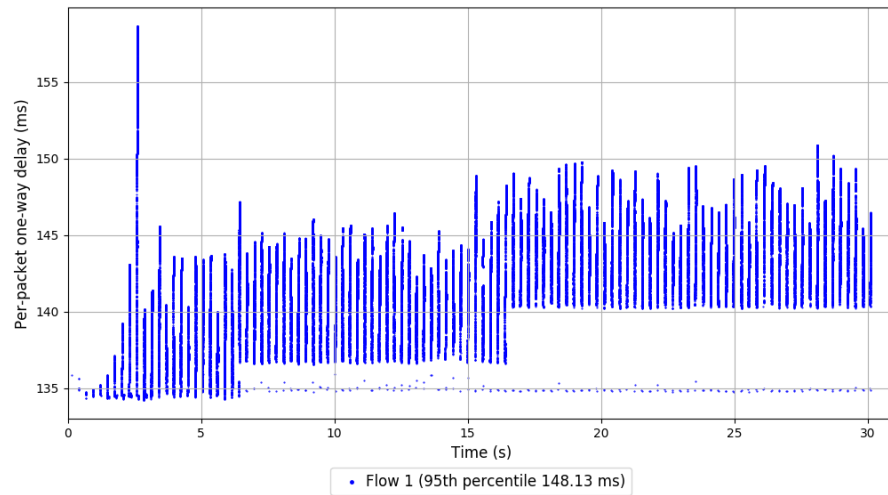
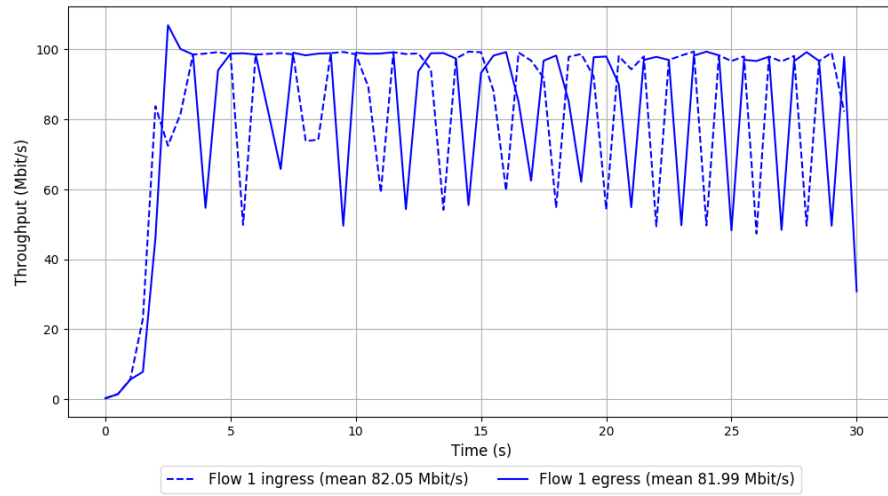
-- Flow 1:

Average throughput: 81.99 Mbit/s

95th percentile per-packet one-way delay: 148.133 ms

Loss rate: 0.06%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-02-16 18:09:24

End at: 2018-02-16 18:09:54

Below is generated by plot.py at 2018-02-16 21:28:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.47 Mbit/s

95th percentile per-packet one-way delay: 145.019 ms

Loss rate: 0.12%

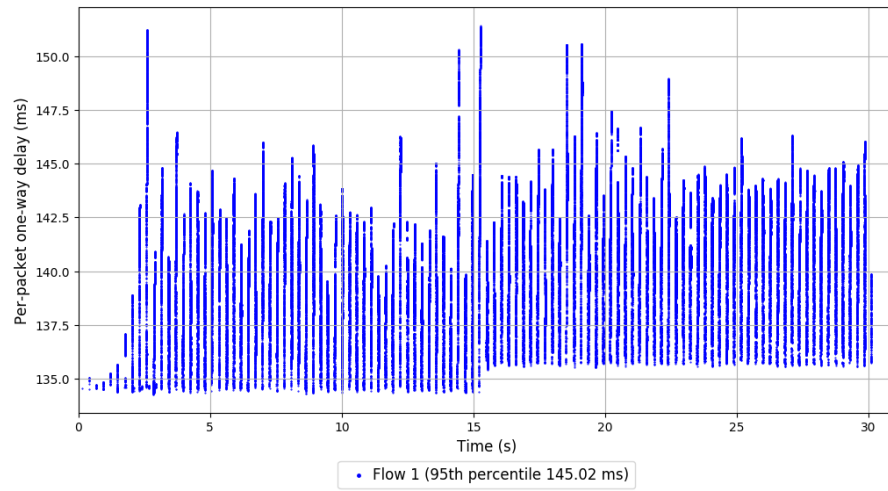
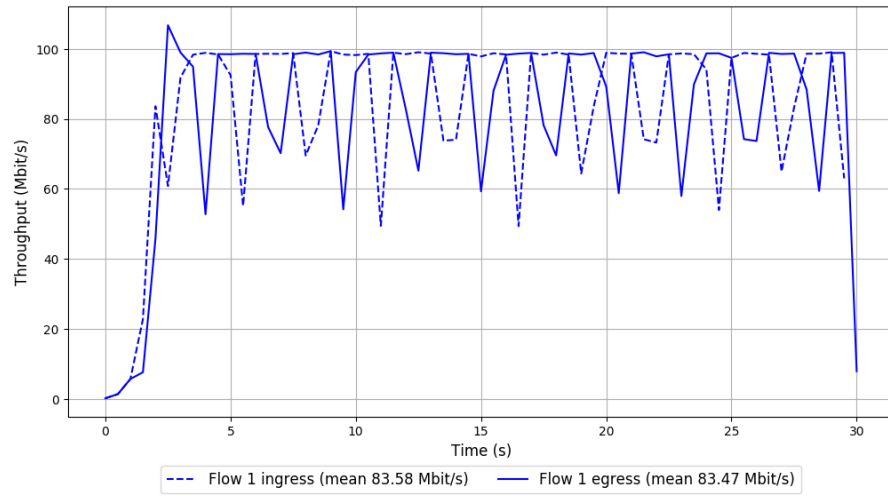
-- Flow 1:

Average throughput: 83.47 Mbit/s

95th percentile per-packet one-way delay: 145.019 ms

Loss rate: 0.12%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-02-16 18:25:20

End at: 2018-02-16 18:25:50

Below is generated by plot.py at 2018-02-16 21:28:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.35 Mbit/s

95th percentile per-packet one-way delay: 145.555 ms

Loss rate: 0.00%

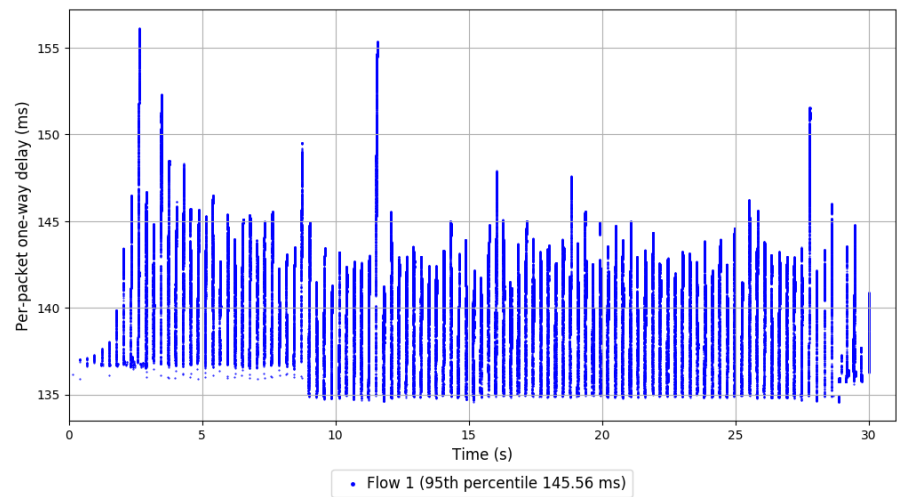
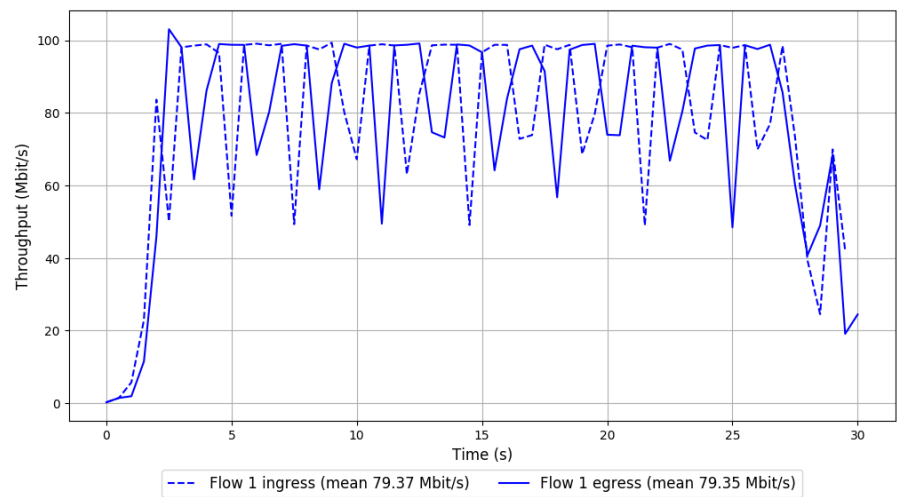
-- Flow 1:

Average throughput: 79.35 Mbit/s

95th percentile per-packet one-way delay: 145.555 ms

Loss rate: 0.00%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-02-16 18:41:26

End at: 2018-02-16 18:41:56

Below is generated by plot.py at 2018-02-16 21:28:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.73 Mbit/s

95th percentile per-packet one-way delay: 145.834 ms

Loss rate: 0.00%

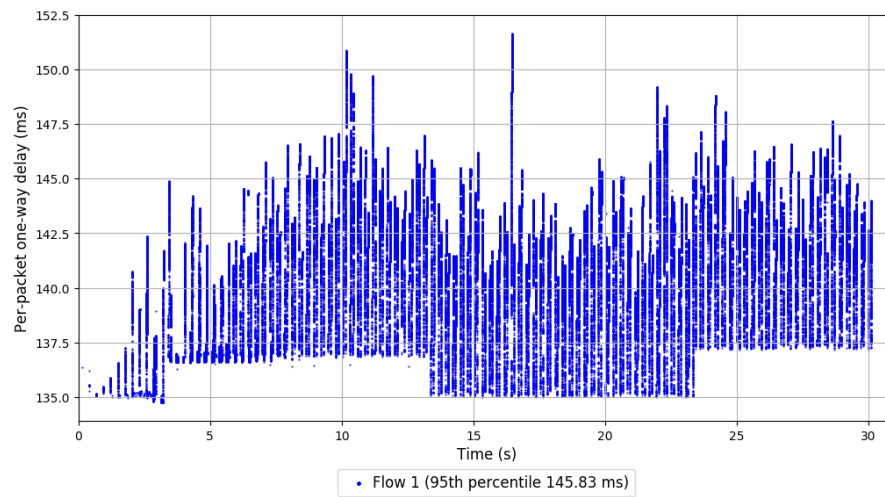
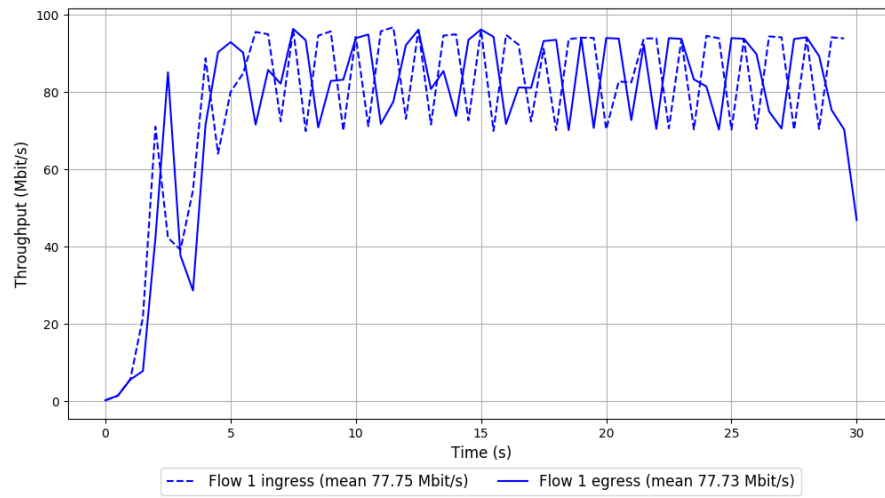
-- Flow 1:

Average throughput: 77.73 Mbit/s

95th percentile per-packet one-way delay: 145.834 ms

Loss rate: 0.00%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-02-16 18:57:44

End at: 2018-02-16 18:58:14

Below is generated by plot.py at 2018-02-16 21:29:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 61.65 Mbit/s

95th percentile per-packet one-way delay: 143.509 ms

Loss rate: 0.00%

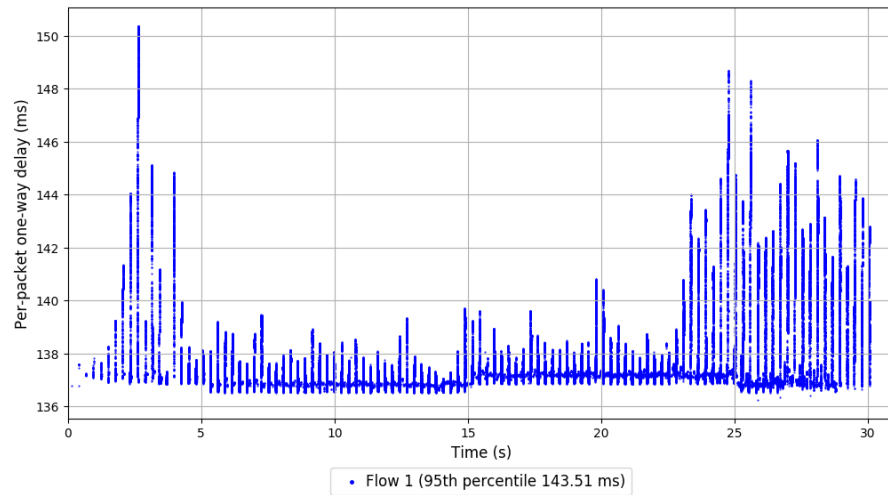
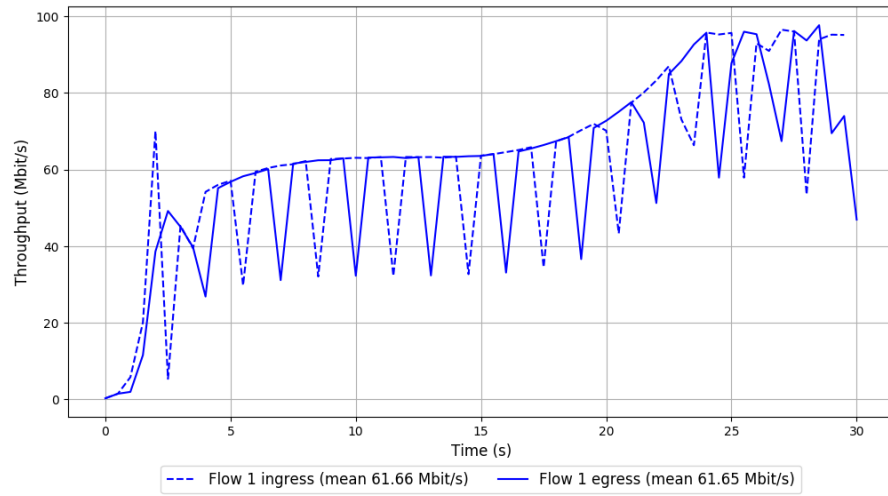
-- Flow 1:

Average throughput: 61.65 Mbit/s

95th percentile per-packet one-way delay: 143.509 ms

Loss rate: 0.00%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-02-16 19:14:17

End at: 2018-02-16 19:14:47

Below is generated by plot.py at 2018-02-16 21:29:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.61 Mbit/s

95th percentile per-packet one-way delay: 144.935 ms

Loss rate: 0.00%

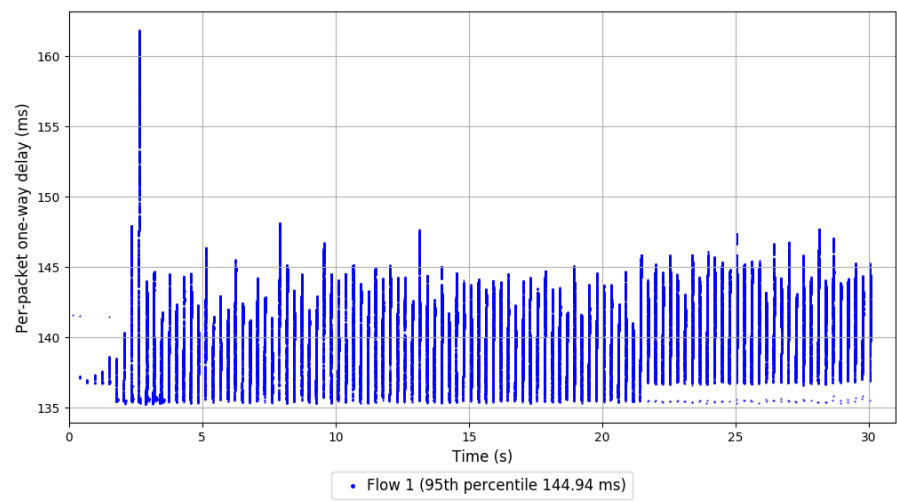
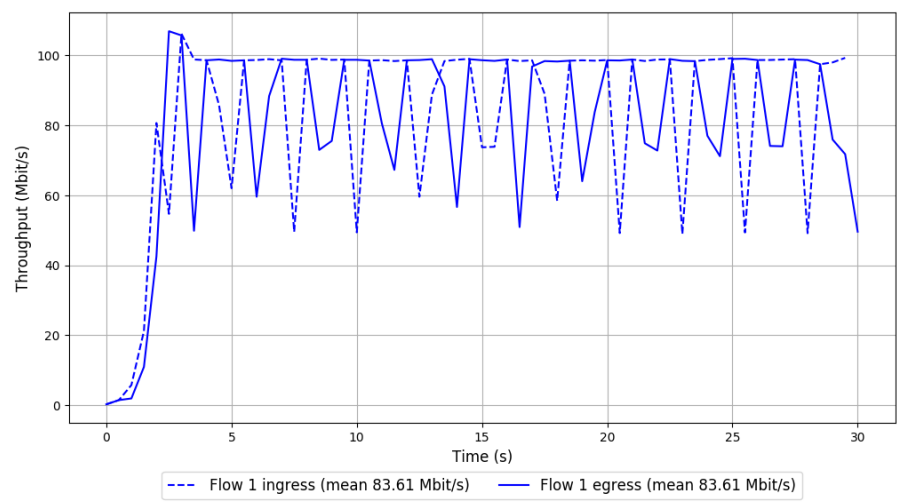
-- Flow 1:

Average throughput: 83.61 Mbit/s

95th percentile per-packet one-way delay: 144.935 ms

Loss rate: 0.00%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-02-16 19:30:44

End at: 2018-02-16 19:31:14

Below is generated by plot.py at 2018-02-16 21:29:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 55.55 Mbit/s

95th percentile per-packet one-way delay: 142.669 ms

Loss rate: 0.00%

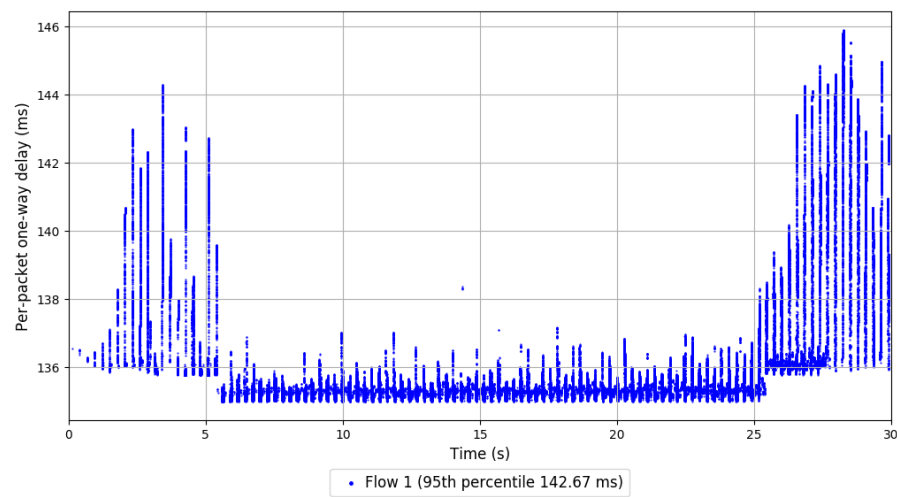
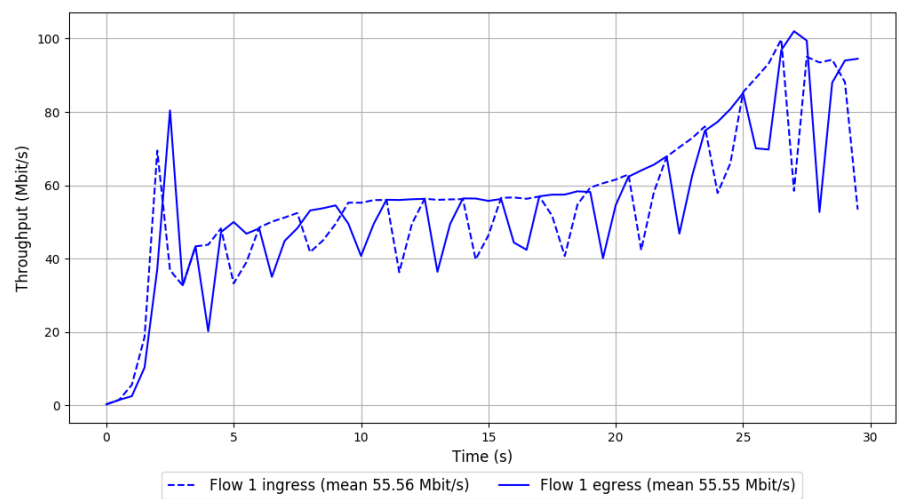
-- Flow 1:

Average throughput: 55.55 Mbit/s

95th percentile per-packet one-way delay: 142.669 ms

Loss rate: 0.00%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-02-16 19:47:05

End at: 2018-02-16 19:47:35

Below is generated by plot.py at 2018-02-16 21:29:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 47.02 Mbit/s

95th percentile per-packet one-way delay: 138.773 ms

Loss rate: 0.00%

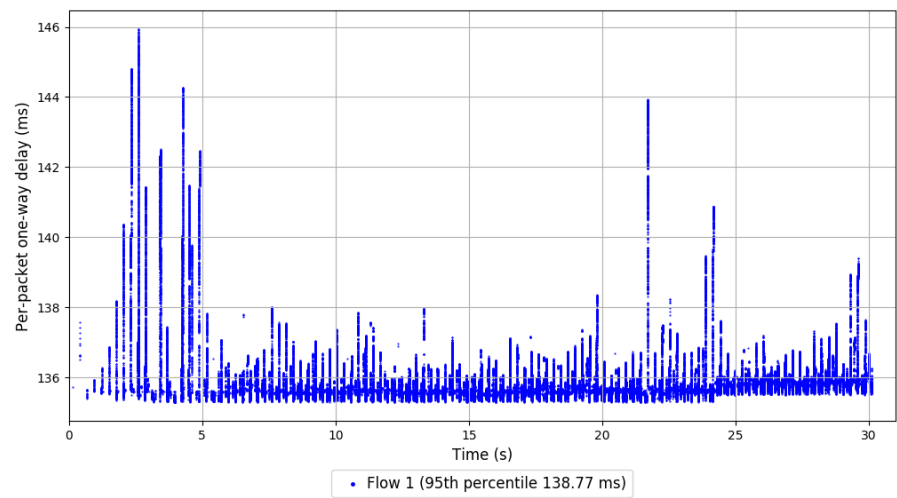
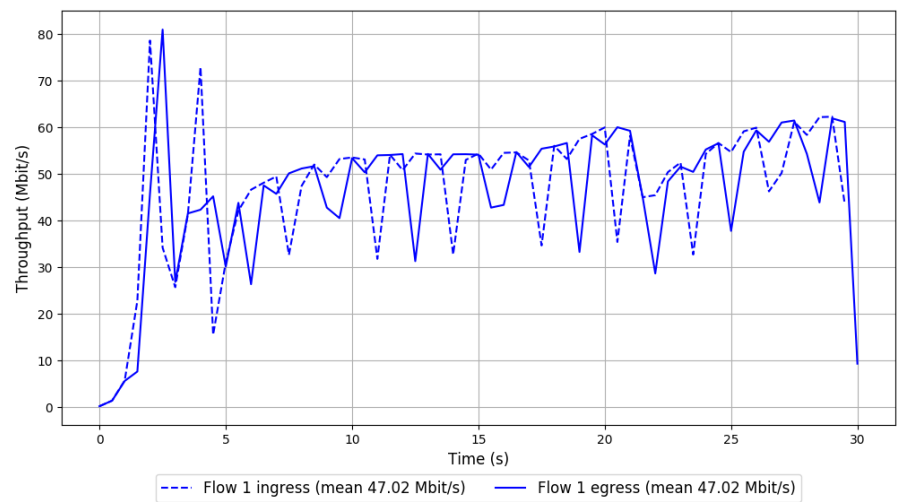
-- Flow 1:

Average throughput: 47.02 Mbit/s

95th percentile per-packet one-way delay: 138.773 ms

Loss rate: 0.00%

Run 10: Report of TCP Cubic — Data Link

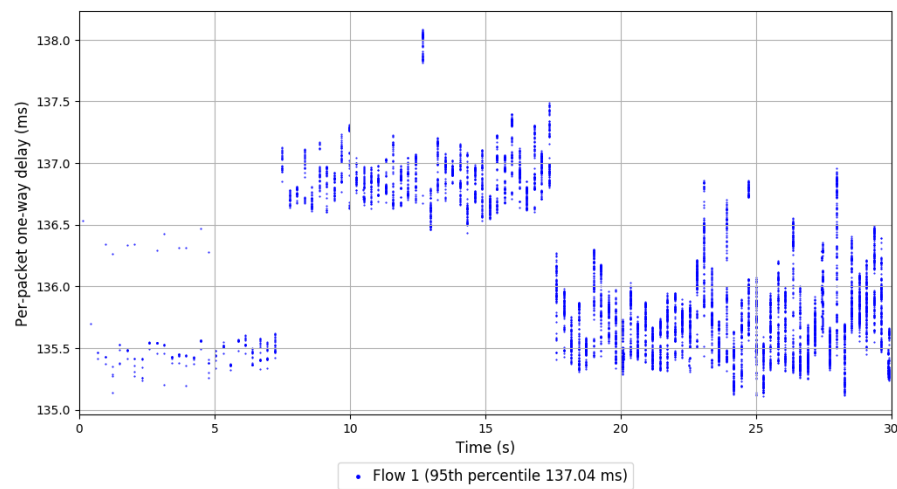
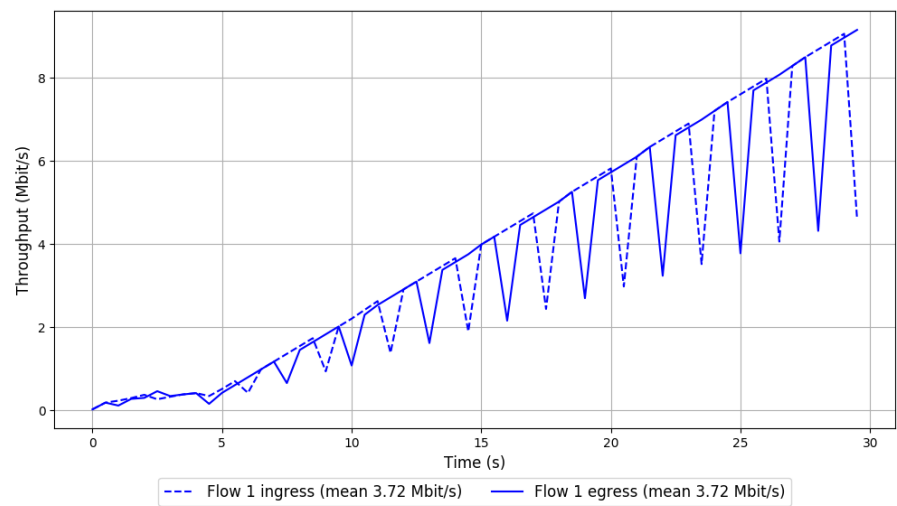


```
Run 1: Statistics of LEDBAT

Start at: 2018-02-16 17:27:22
End at: 2018-02-16 17:27:52

# Below is generated by plot.py at 2018-02-16 21:29:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 3.72 Mbit/s
95th percentile per-packet one-way delay: 137.043 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 3.72 Mbit/s
95th percentile per-packet one-way delay: 137.043 ms
Loss rate: 0.00%
```

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

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

End at: 2018-02-16 17:43:47

Below is generated by plot.py at 2018-02-16 21:29:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.77 Mbit/s

95th percentile per-packet one-way delay: 137.821 ms

Loss rate: 0.00%

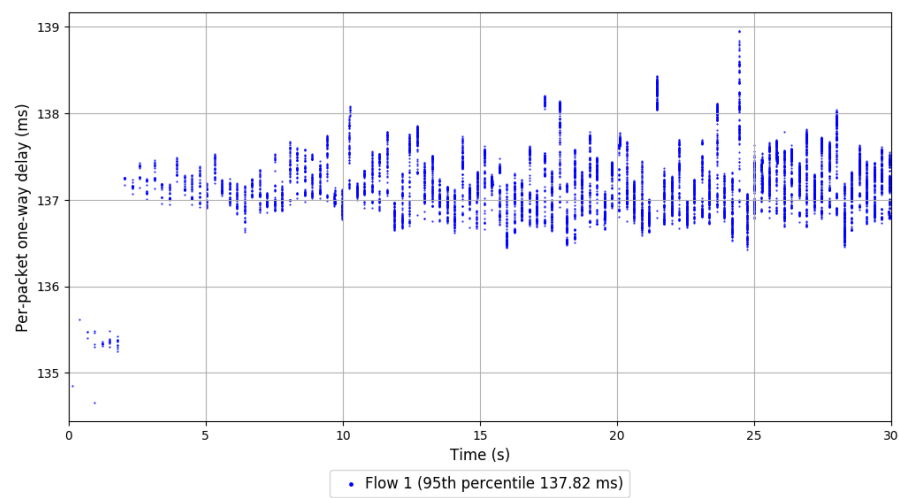
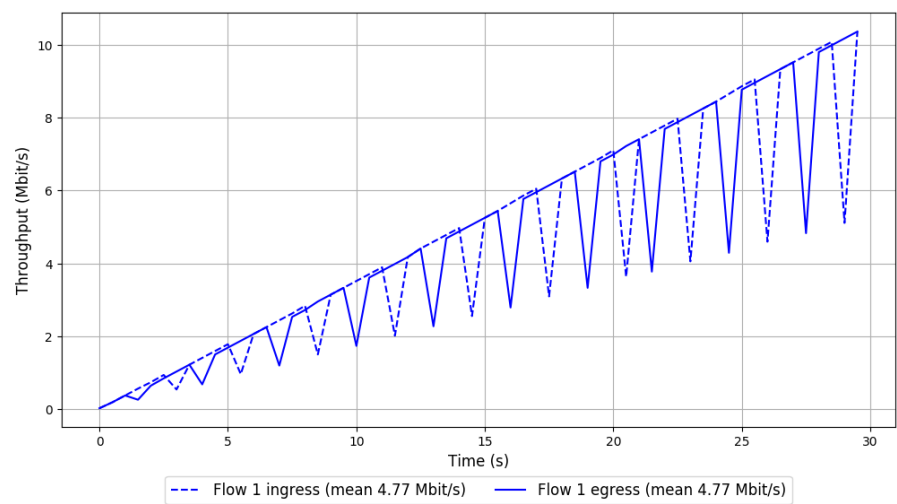
-- Flow 1:

Average throughput: 4.77 Mbit/s

95th percentile per-packet one-way delay: 137.821 ms

Loss rate: 0.00%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-02-16 17:59:42

End at: 2018-02-16 18:00:12

Below is generated by plot.py at 2018-02-16 21:29:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.61 Mbit/s

95th percentile per-packet one-way delay: 141.319 ms

Loss rate: 0.00%

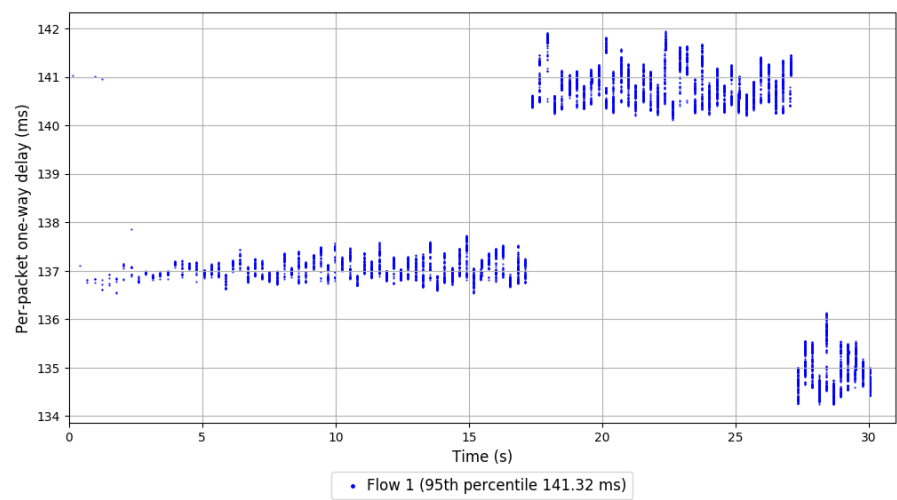
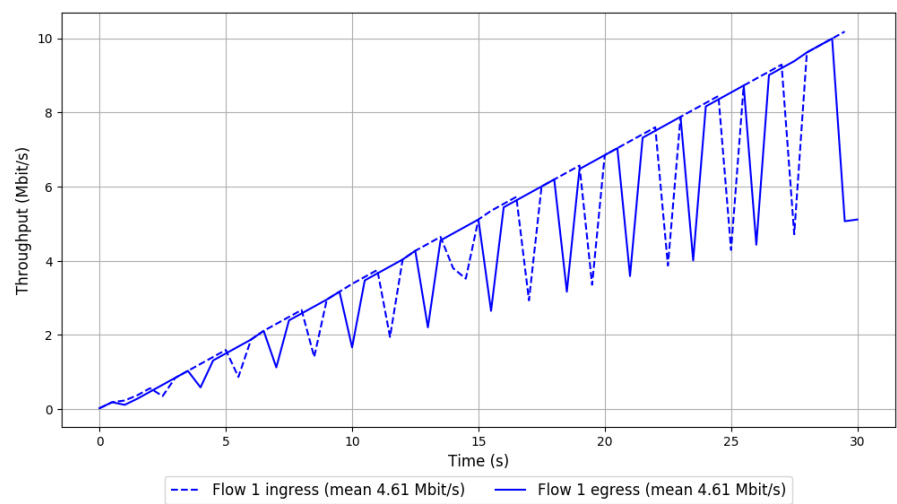
-- Flow 1:

Average throughput: 4.61 Mbit/s

95th percentile per-packet one-way delay: 141.319 ms

Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-02-16 18:15:23

End at: 2018-02-16 18:15:53

Below is generated by plot.py at 2018-02-16 21:29:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.90 Mbit/s

95th percentile per-packet one-way delay: 136.879 ms

Loss rate: 0.00%

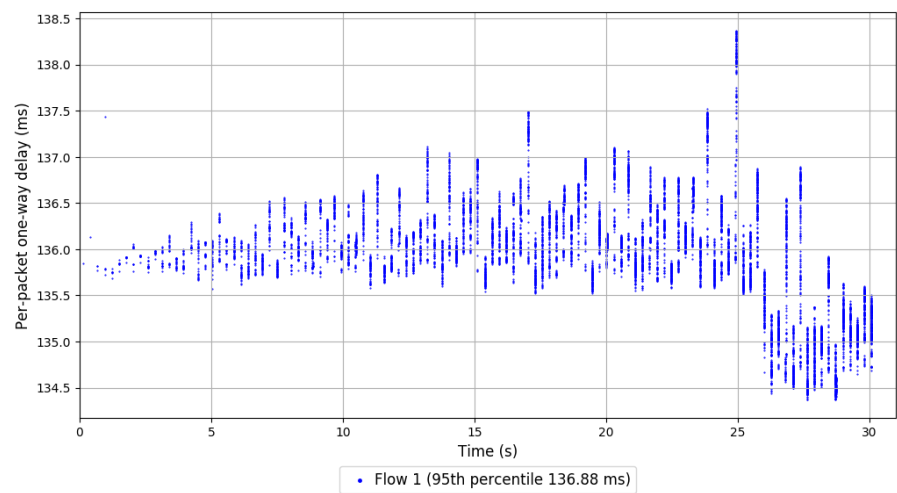
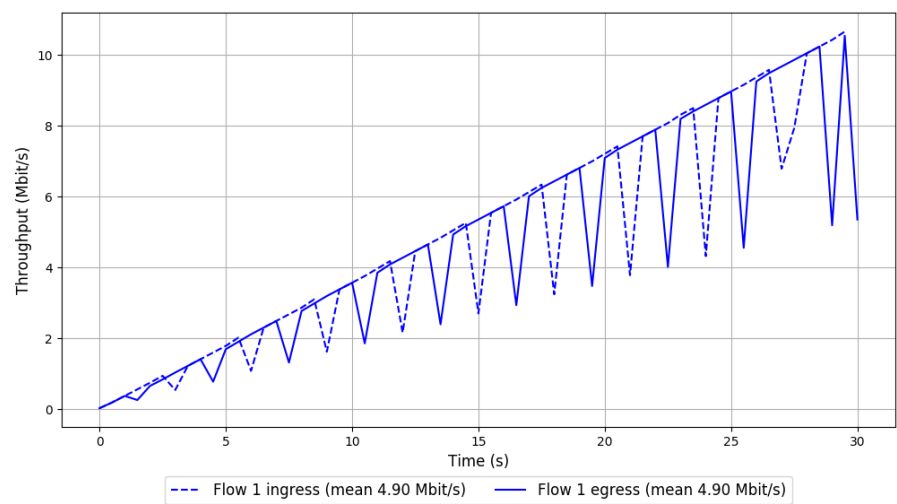
-- Flow 1:

Average throughput: 4.90 Mbit/s

95th percentile per-packet one-way delay: 136.879 ms

Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-02-16 18:31:26

End at: 2018-02-16 18:31:56

Below is generated by plot.py at 2018-02-16 21:29:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.71 Mbit/s

95th percentile per-packet one-way delay: 136.203 ms

Loss rate: 0.00%

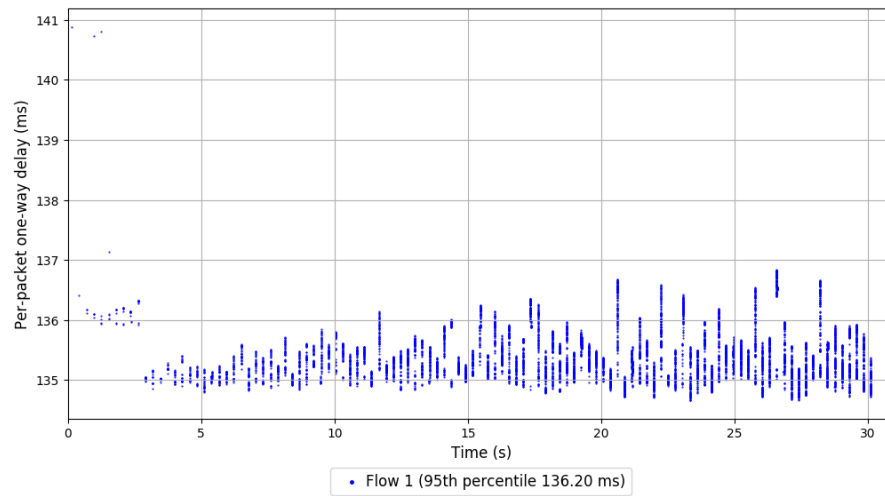
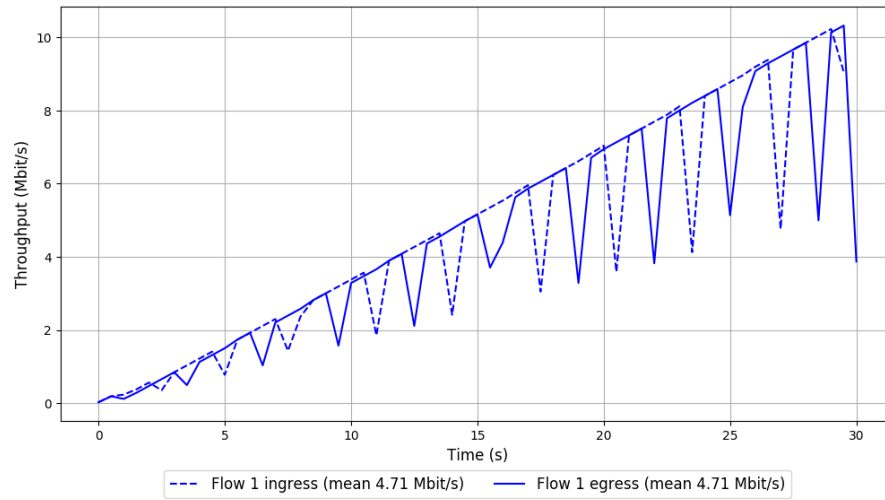
-- Flow 1:

Average throughput: 4.71 Mbit/s

95th percentile per-packet one-way delay: 136.203 ms

Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-02-16 18:47:30

End at: 2018-02-16 18:48:00

Below is generated by plot.py at 2018-02-16 21:29:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.57 Mbit/s

95th percentile per-packet one-way delay: 138.420 ms

Loss rate: 0.00%

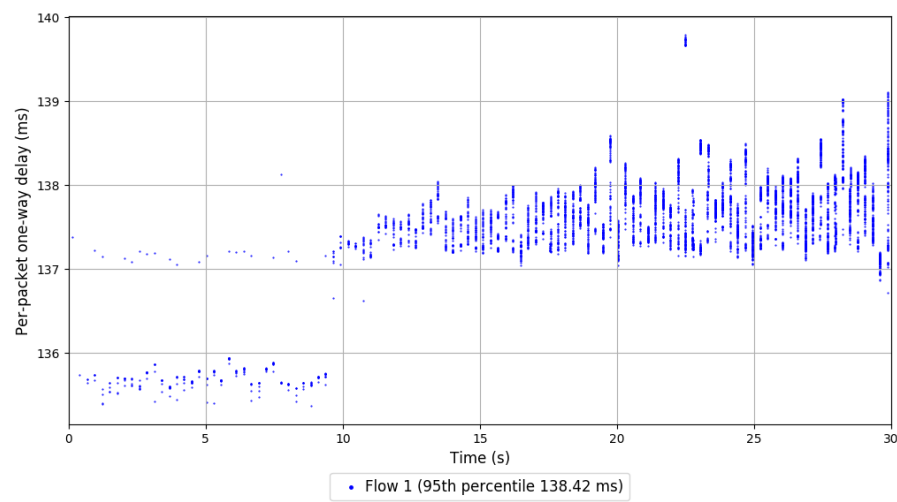
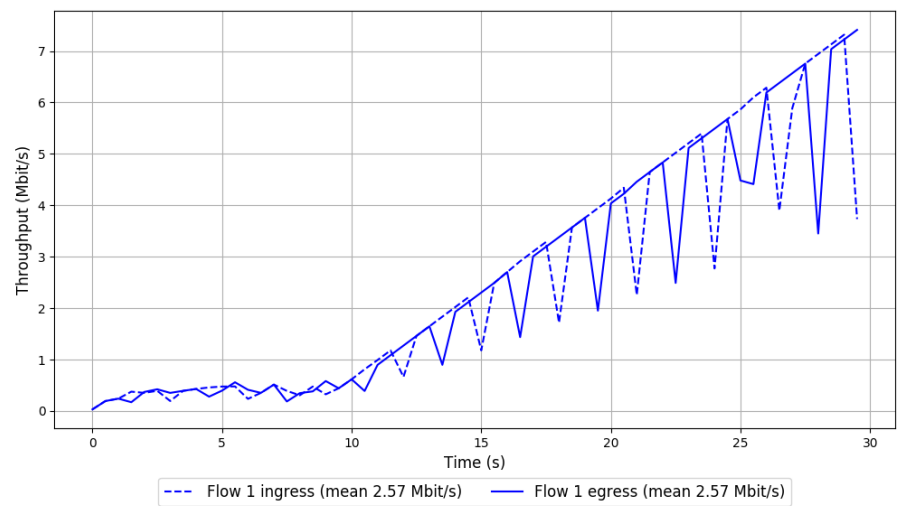
-- Flow 1:

Average throughput: 2.57 Mbit/s

95th percentile per-packet one-way delay: 138.420 ms

Loss rate: 0.00%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-02-16 19:03:46

End at: 2018-02-16 19:04:16

Below is generated by plot.py at 2018-02-16 21:29:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.93 Mbit/s

95th percentile per-packet one-way delay: 136.763 ms

Loss rate: 0.00%

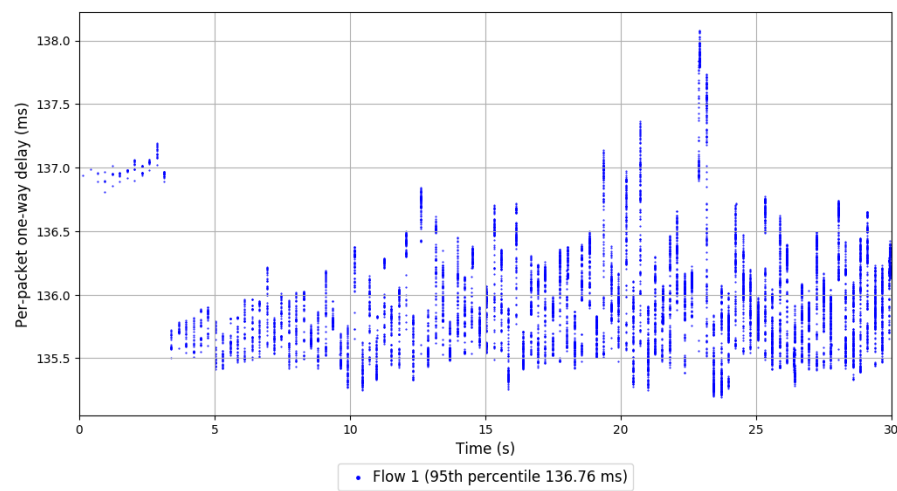
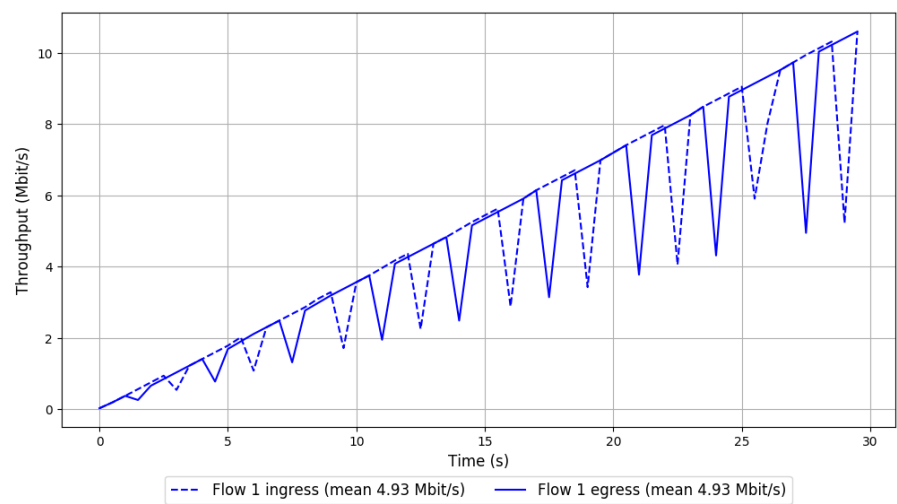
-- Flow 1:

Average throughput: 4.93 Mbit/s

95th percentile per-packet one-way delay: 136.763 ms

Loss rate: 0.00%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-02-16 19:20:21

End at: 2018-02-16 19:20:51

Below is generated by plot.py at 2018-02-16 21:29:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.91 Mbit/s

95th percentile per-packet one-way delay: 137.462 ms

Loss rate: 0.00%

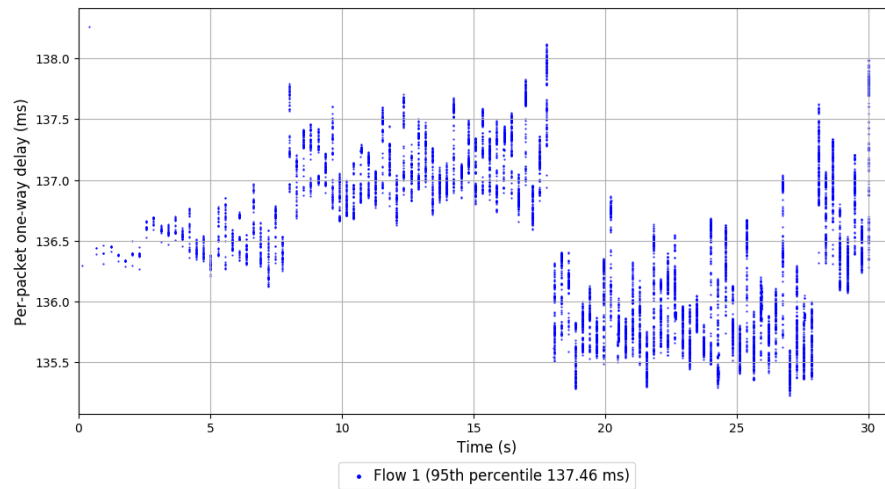
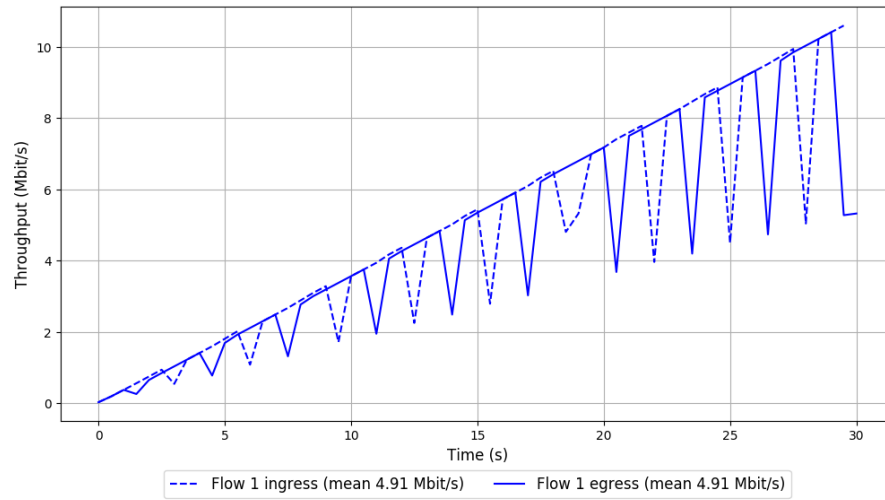
-- Flow 1:

Average throughput: 4.91 Mbit/s

95th percentile per-packet one-way delay: 137.462 ms

Loss rate: 0.00%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-02-16 19:36:47

End at: 2018-02-16 19:37:17

Below is generated by plot.py at 2018-02-16 21:29:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.83 Mbit/s

95th percentile per-packet one-way delay: 137.438 ms

Loss rate: 0.00%

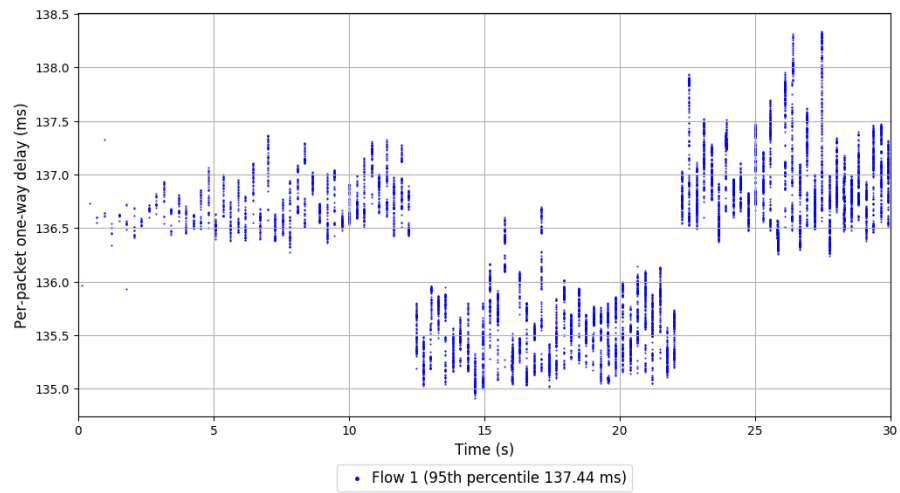
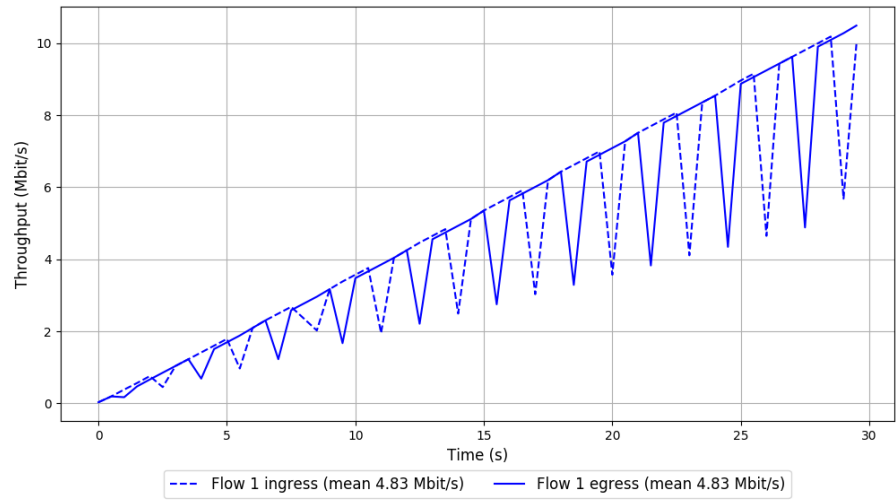
-- Flow 1:

Average throughput: 4.83 Mbit/s

95th percentile per-packet one-way delay: 137.438 ms

Loss rate: 0.00%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-02-16 19:53:07

End at: 2018-02-16 19:53:37

Below is generated by plot.py at 2018-02-16 21:29:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.96 Mbit/s

95th percentile per-packet one-way delay: 141.808 ms

Loss rate: 0.00%

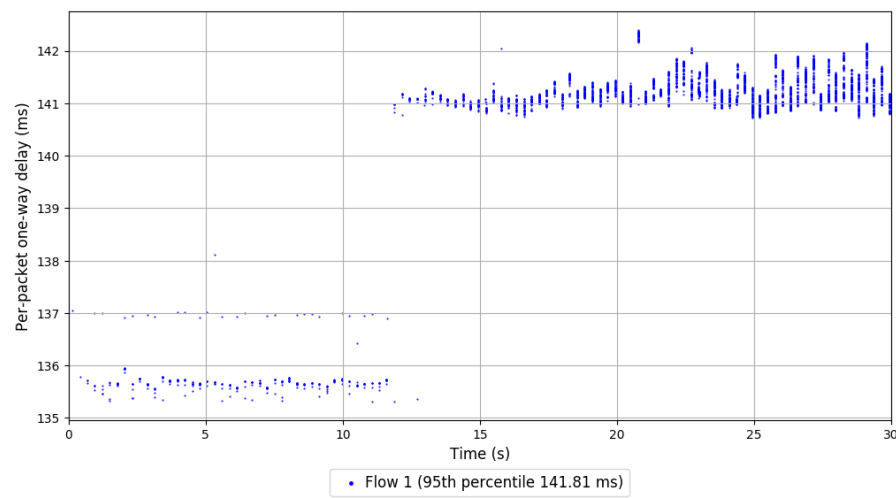
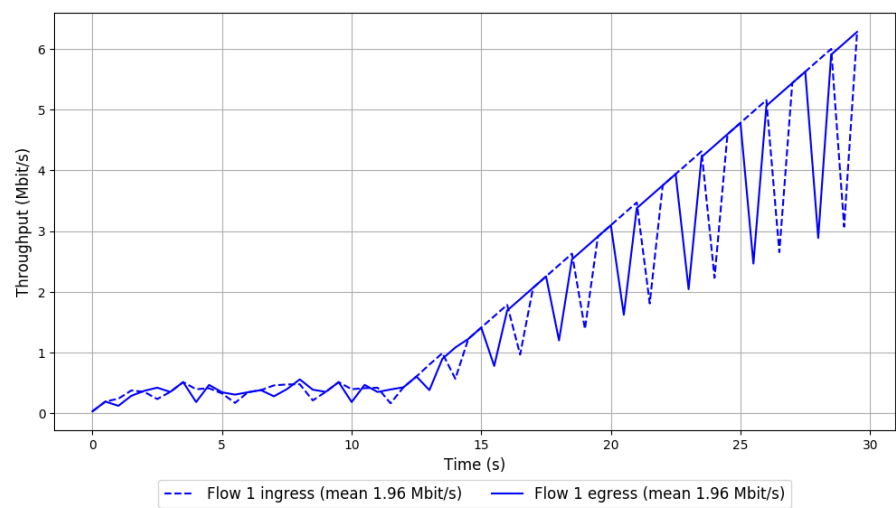
-- Flow 1:

Average throughput: 1.96 Mbit/s

95th percentile per-packet one-way delay: 141.808 ms

Loss rate: 0.00%

Run 10: Report of LEDBAT — Data Link



Run 1: Statistics of PCC

Start at: 2018-02-16 17:32:45

End at: 2018-02-16 17:33:15

Below is generated by plot.py at 2018-02-16 21:37:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 548.60 Mbit/s

95th percentile per-packet one-way delay: 263.793 ms

Loss rate: 2.20%

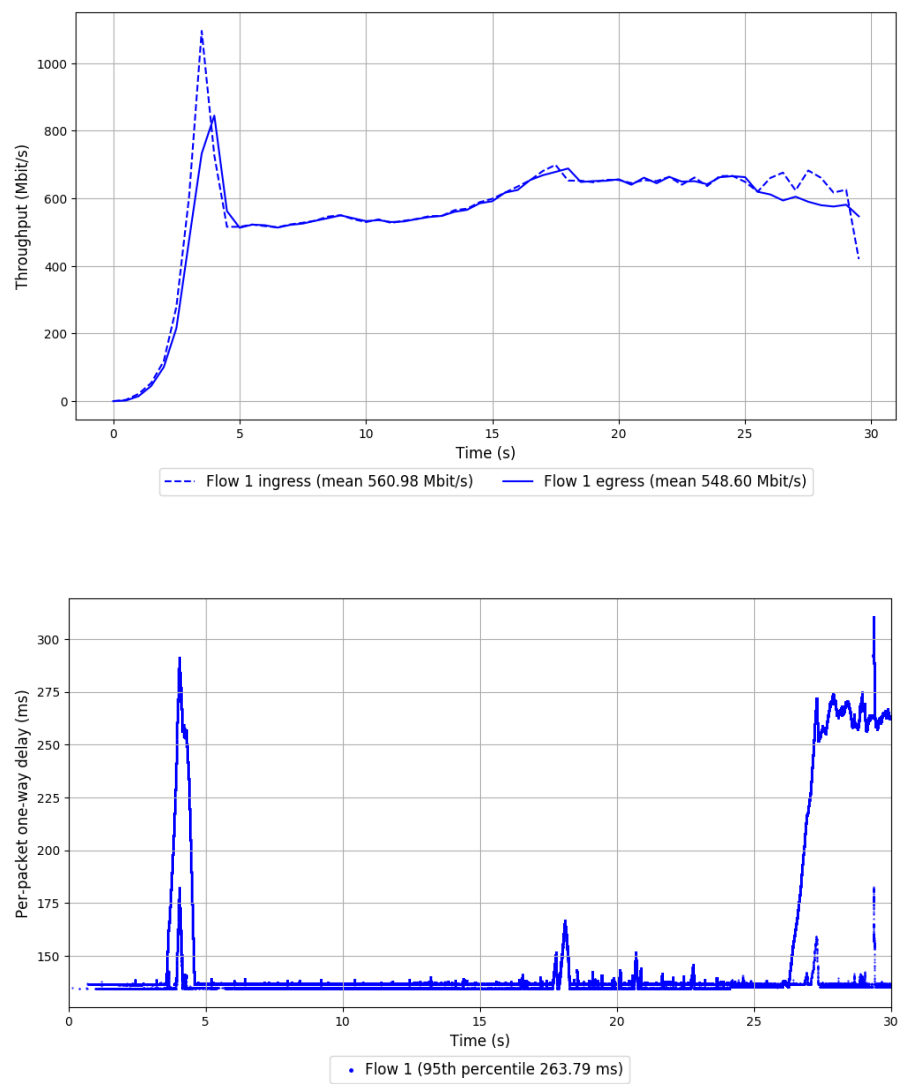
-- Flow 1:

Average throughput: 548.60 Mbit/s

95th percentile per-packet one-way delay: 263.793 ms

Loss rate: 2.20%

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

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

End at: 2018-02-16 17:49:09

Below is generated by plot.py at 2018-02-16 21:37:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 523.39 Mbit/s

95th percentile per-packet one-way delay: 149.188 ms

Loss rate: 0.87%

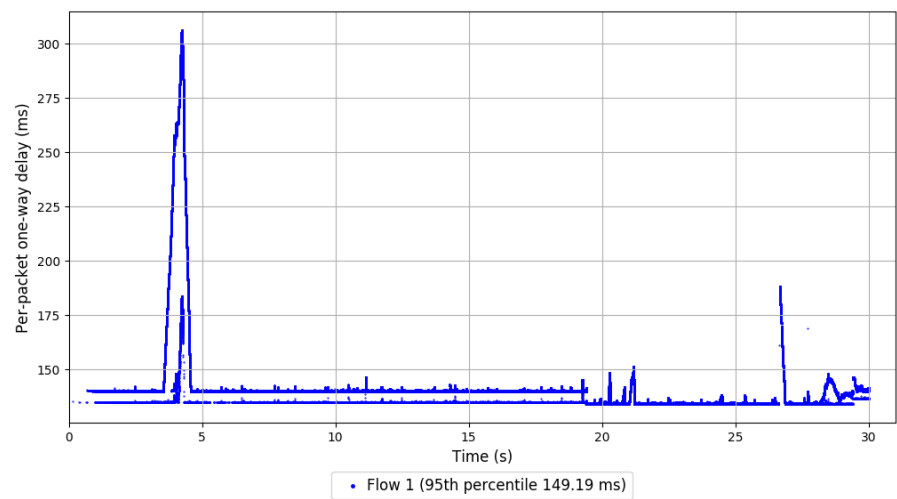
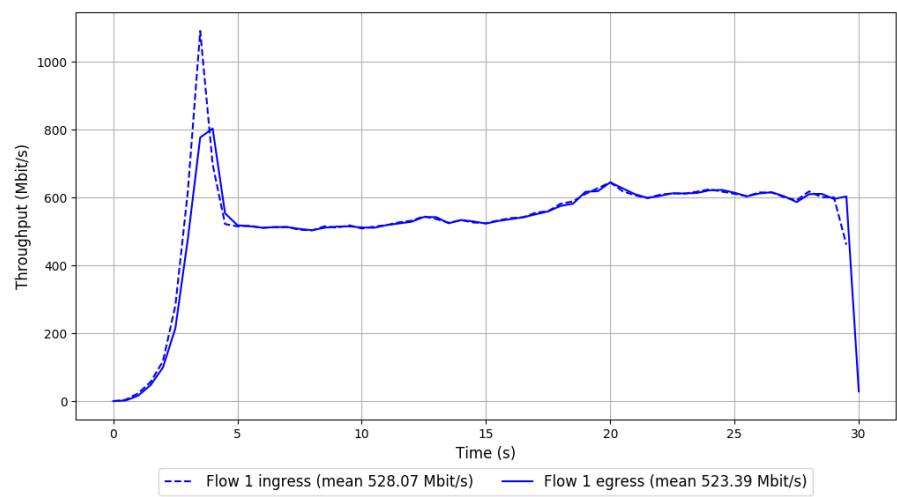
-- Flow 1:

Average throughput: 523.39 Mbit/s

95th percentile per-packet one-way delay: 149.188 ms

Loss rate: 0.87%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-02-16 18:04:47

End at: 2018-02-16 18:05:17

Below is generated by plot.py at 2018-02-16 21:37:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 555.82 Mbit/s

95th percentile per-packet one-way delay: 226.206 ms

Loss rate: 1.20%

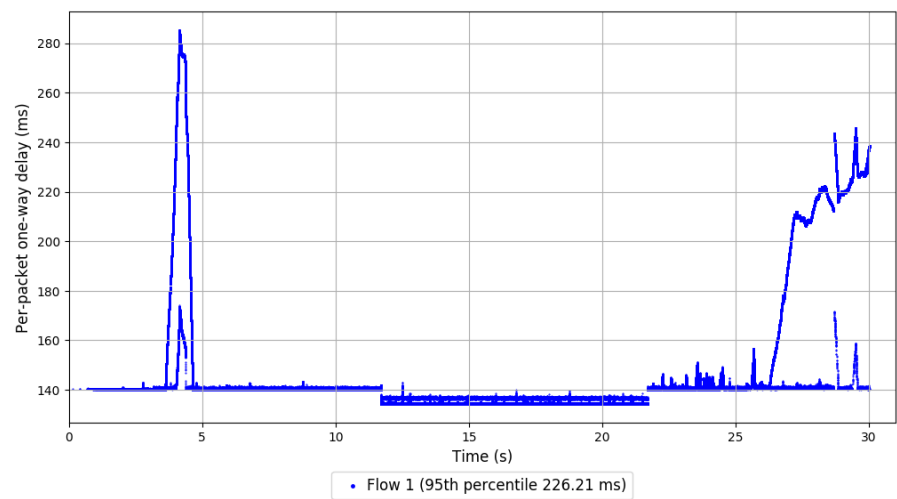
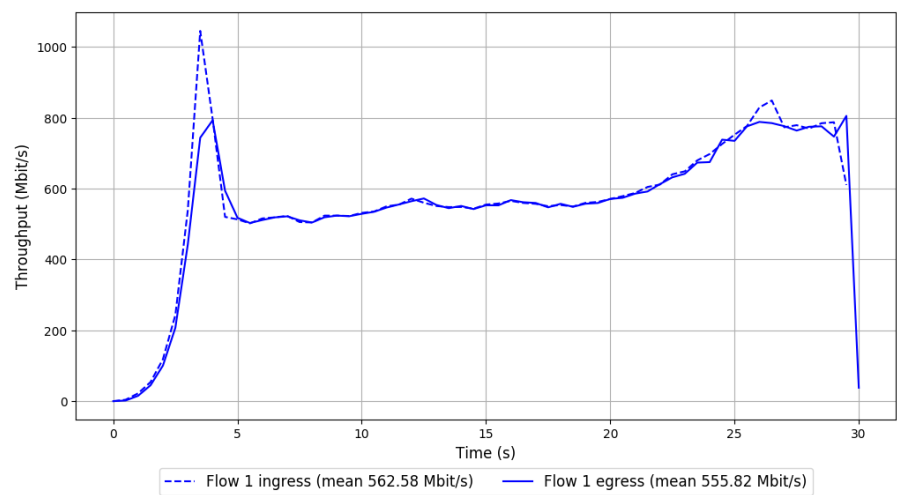
-- Flow 1:

Average throughput: 555.82 Mbit/s

95th percentile per-packet one-way delay: 226.206 ms

Loss rate: 1.20%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-02-16 18:20:47

End at: 2018-02-16 18:21:17

Below is generated by plot.py at 2018-02-16 21:37:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 537.81 Mbit/s

95th percentile per-packet one-way delay: 265.617 ms

Loss rate: 2.80%

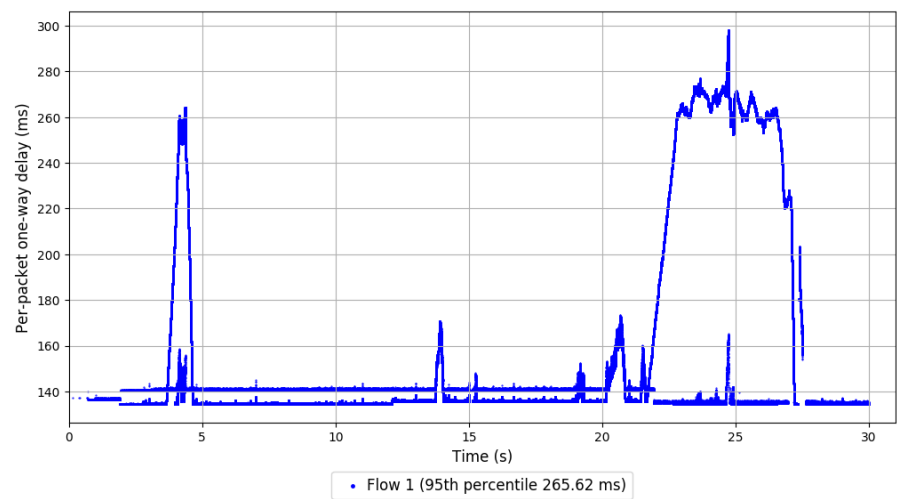
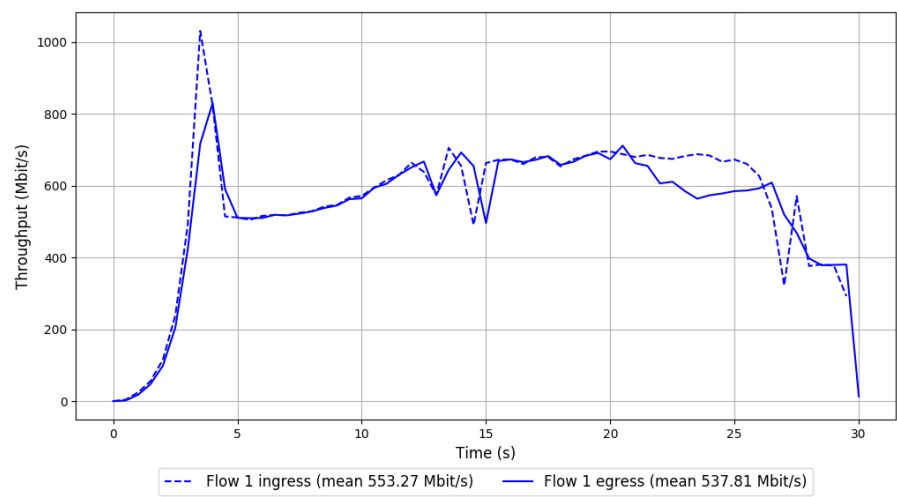
-- Flow 1:

Average throughput: 537.81 Mbit/s

95th percentile per-packet one-way delay: 265.617 ms

Loss rate: 2.80%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-02-16 18:36:59

End at: 2018-02-16 18:37:29

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 524.29 Mbit/s

95th percentile per-packet one-way delay: 261.955 ms

Loss rate: 1.80%

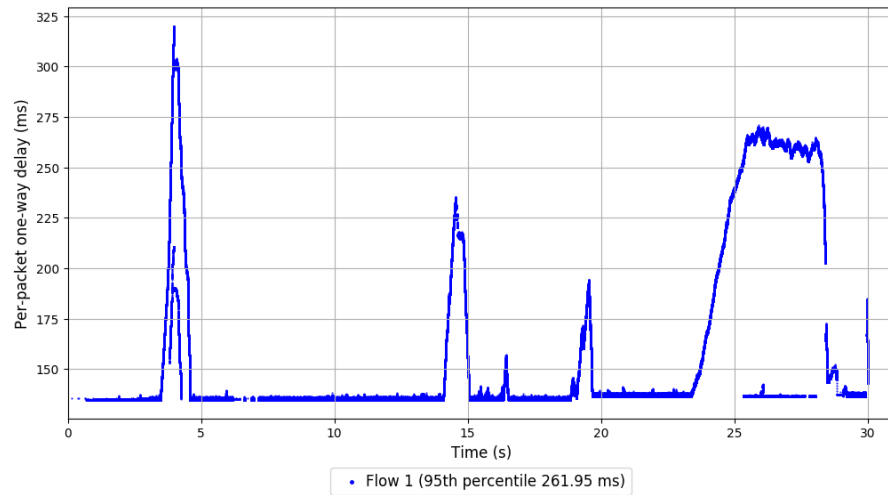
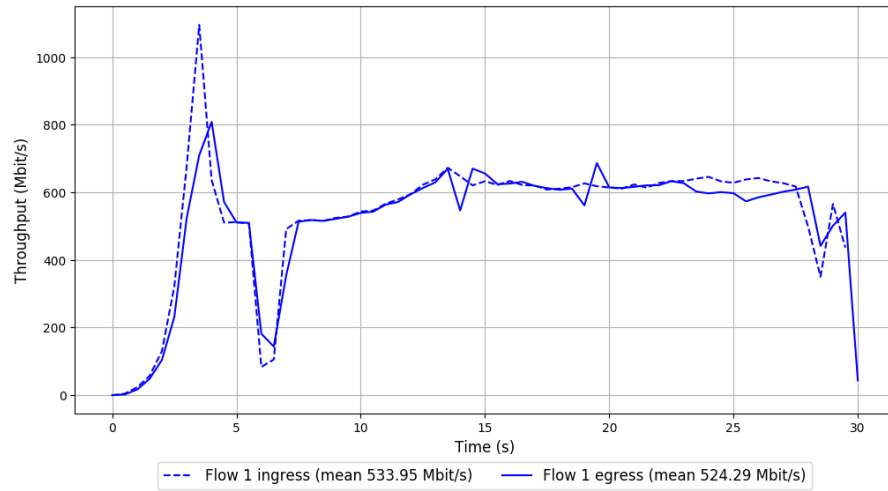
-- Flow 1:

Average throughput: 524.29 Mbit/s

95th percentile per-packet one-way delay: 261.955 ms

Loss rate: 1.80%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-02-16 18:52:54

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

Below is generated by plot.py at 2018-02-16 21:40:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 619.55 Mbit/s

95th percentile per-packet one-way delay: 235.170 ms

Loss rate: 1.41%

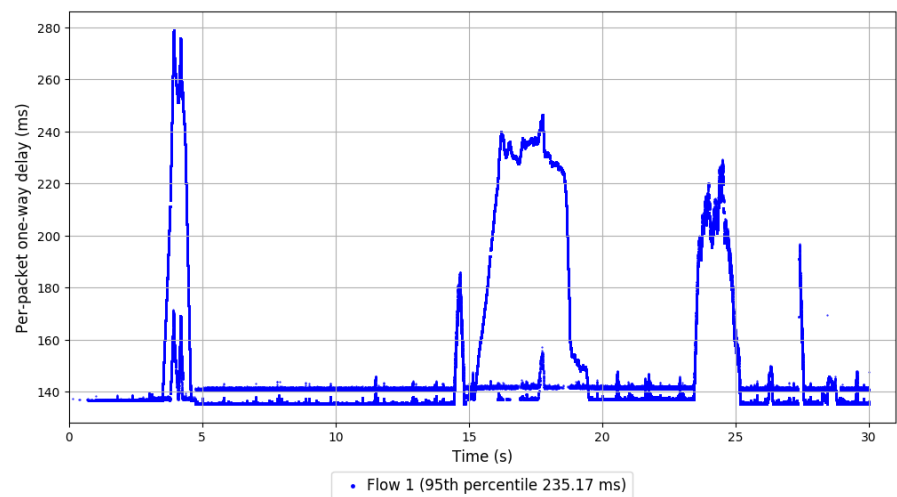
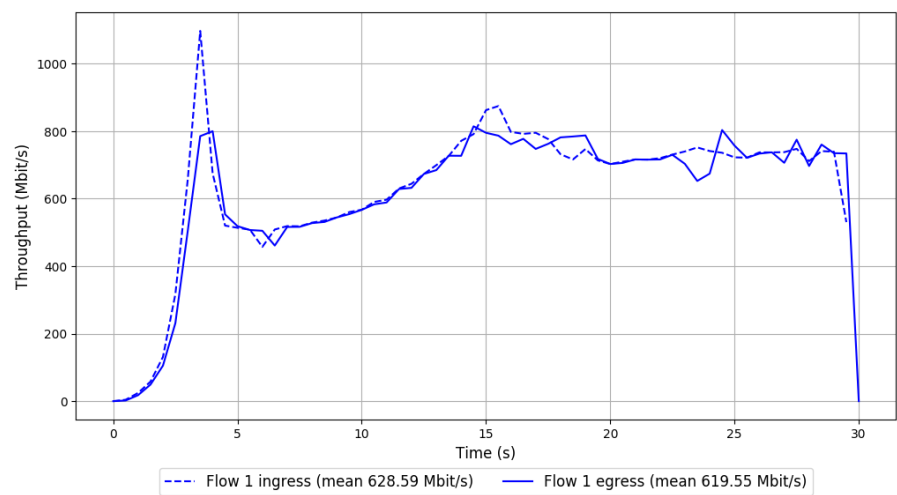
-- Flow 1:

Average throughput: 619.55 Mbit/s

95th percentile per-packet one-way delay: 235.170 ms

Loss rate: 1.41%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

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

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

Below is generated by plot.py at 2018-02-16 21:40:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 588.37 Mbit/s

95th percentile per-packet one-way delay: 170.418 ms

Loss rate: 0.95%

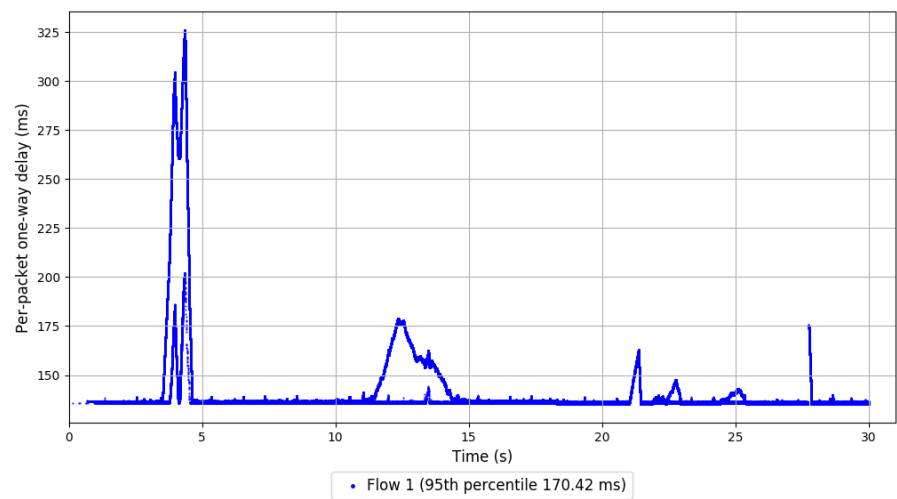
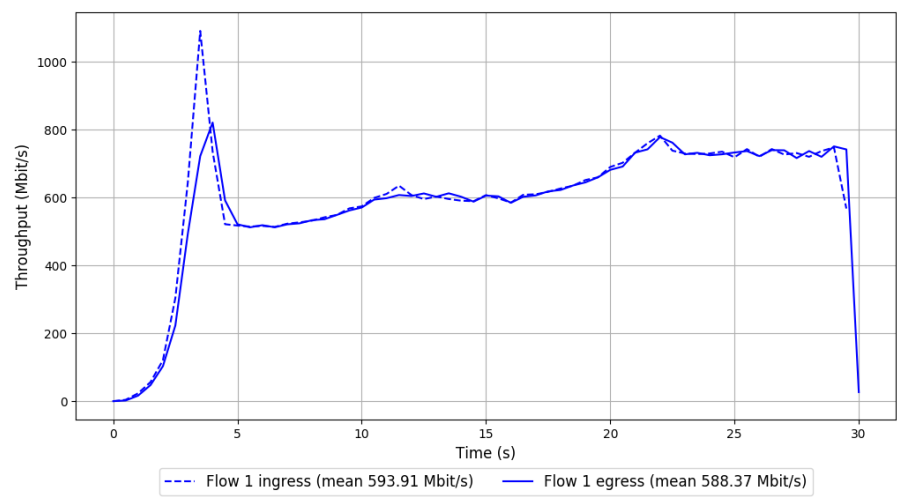
-- Flow 1:

Average throughput: 588.37 Mbit/s

95th percentile per-packet one-way delay: 170.418 ms

Loss rate: 0.95%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

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

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

Below is generated by plot.py at 2018-02-16 21:40:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 499.13 Mbit/s

95th percentile per-packet one-way delay: 279.151 ms

Loss rate: 6.73%

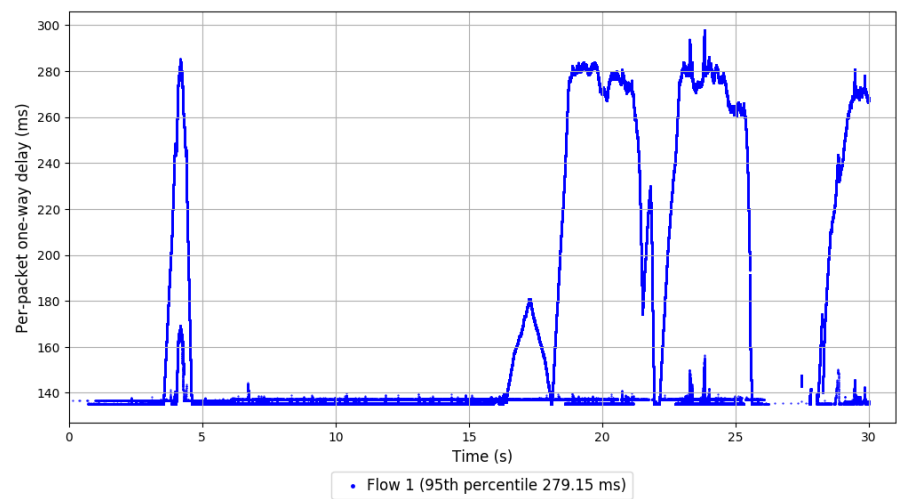
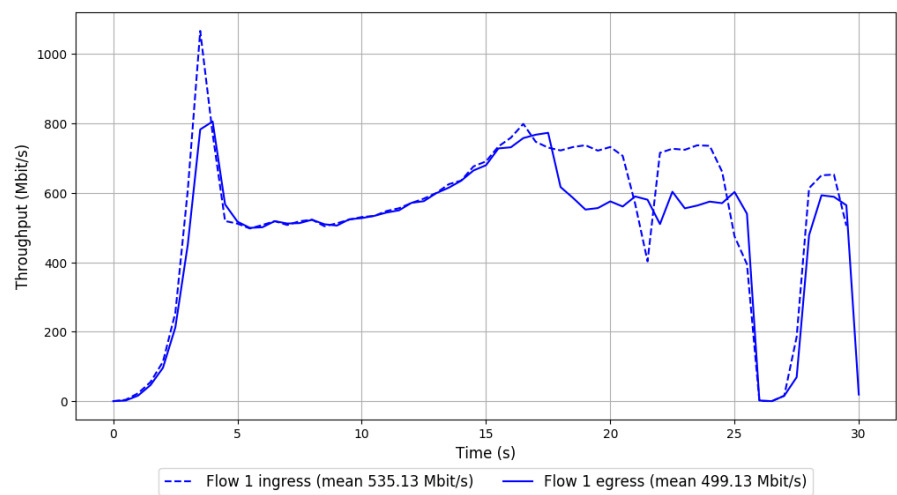
-- Flow 1:

Average throughput: 499.13 Mbit/s

95th percentile per-packet one-way delay: 279.151 ms

Loss rate: 6.73%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2018-02-16 19:42:26

End at: 2018-02-16 19:42:56

Below is generated by plot.py at 2018-02-16 21:47:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 538.38 Mbit/s

95th percentile per-packet one-way delay: 275.914 ms

Loss rate: 3.85%

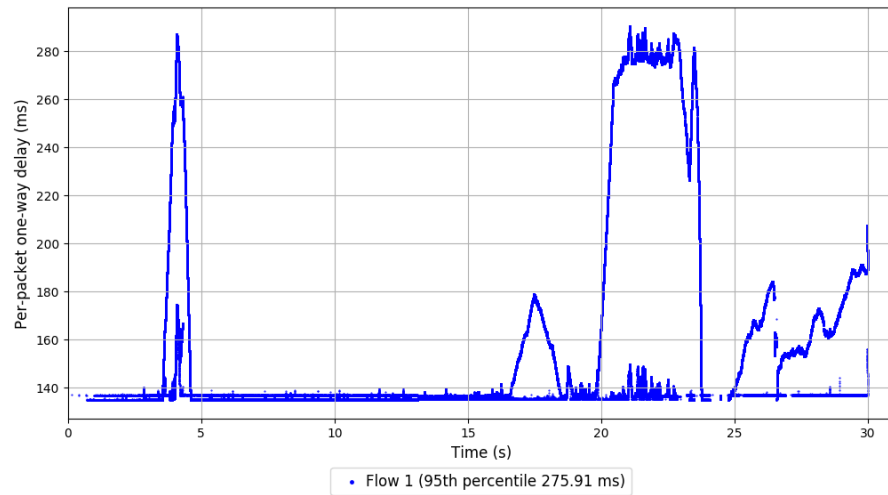
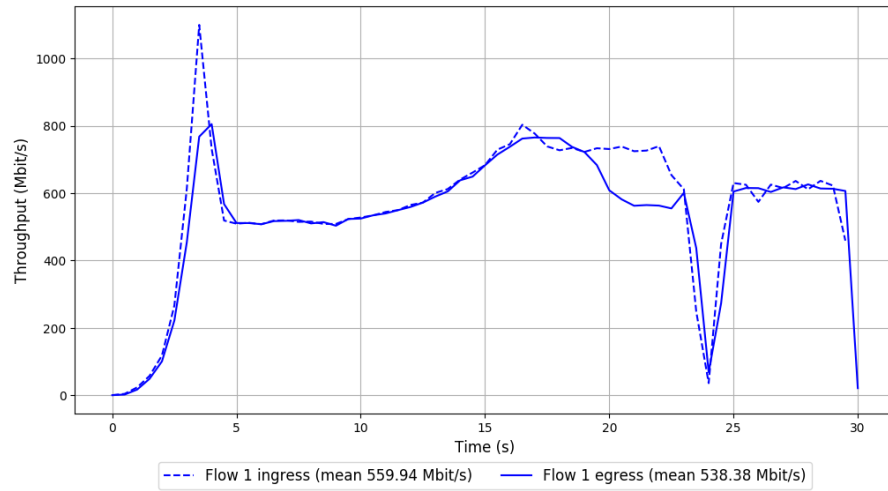
-- Flow 1:

Average throughput: 538.38 Mbit/s

95th percentile per-packet one-way delay: 275.914 ms

Loss rate: 3.85%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2018-02-16 19:58:32

End at: 2018-02-16 19:59:02

Below is generated by plot.py at 2018-02-16 21:48:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 599.05 Mbit/s

95th percentile per-packet one-way delay: 244.439 ms

Loss rate: 1.25%

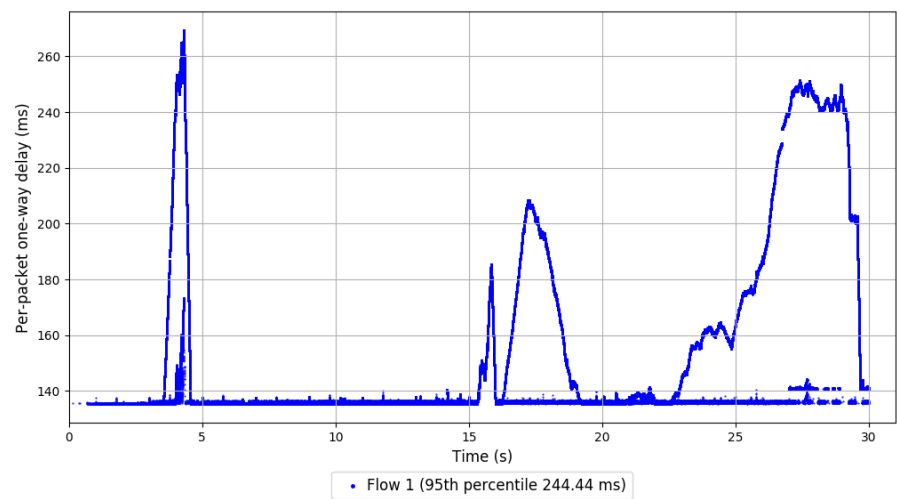
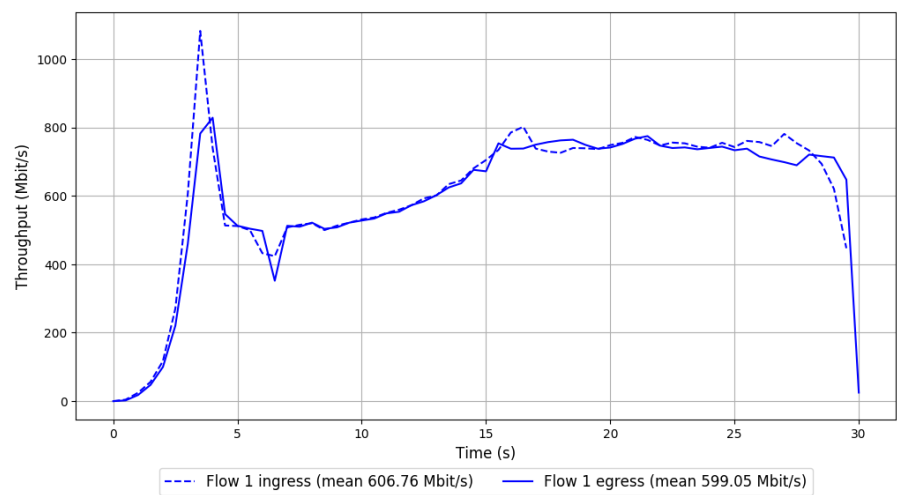
-- Flow 1:

Average throughput: 599.05 Mbit/s

95th percentile per-packet one-way delay: 244.439 ms

Loss rate: 1.25%

Run 10: Report of PCC — Data Link

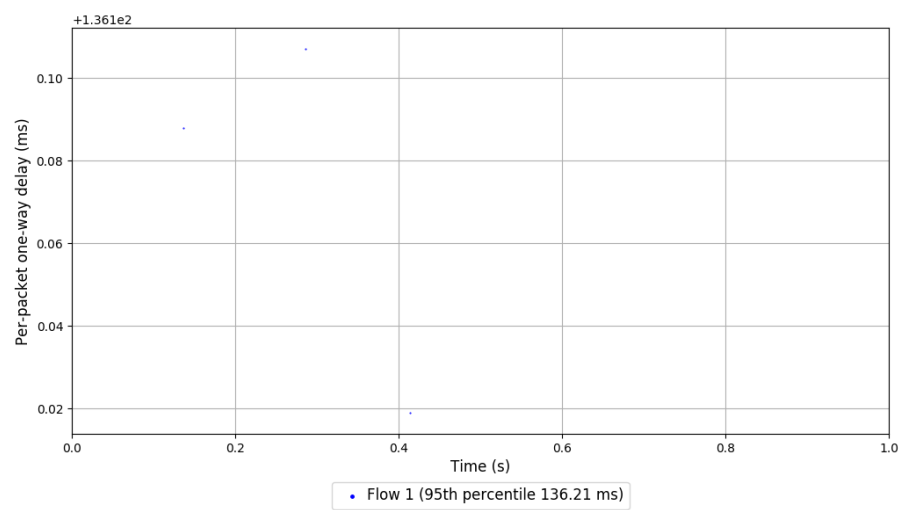
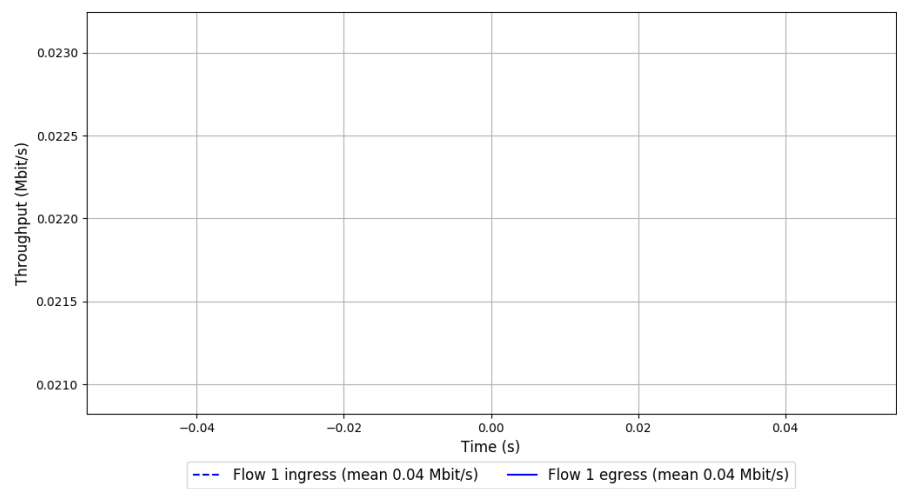


Run 1: Statistics of QUIC Cubic

Start at: 2018-02-16 17:33:49

End at: 2018-02-16 17:34:19

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

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

End at: 2018-02-16 17:50:13

Below is generated by plot.py at 2018-02-16 21:48:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 61.07 Mbit/s

95th percentile per-packet one-way delay: 136.671 ms

Loss rate: 0.00%

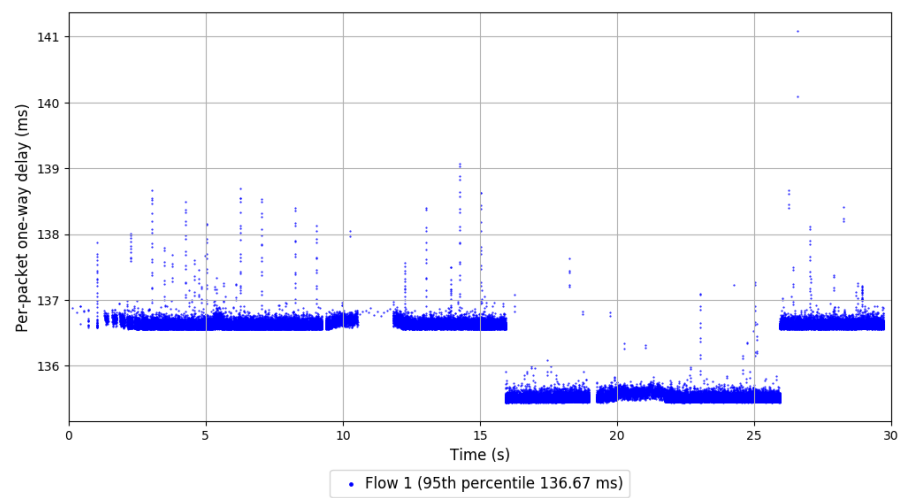
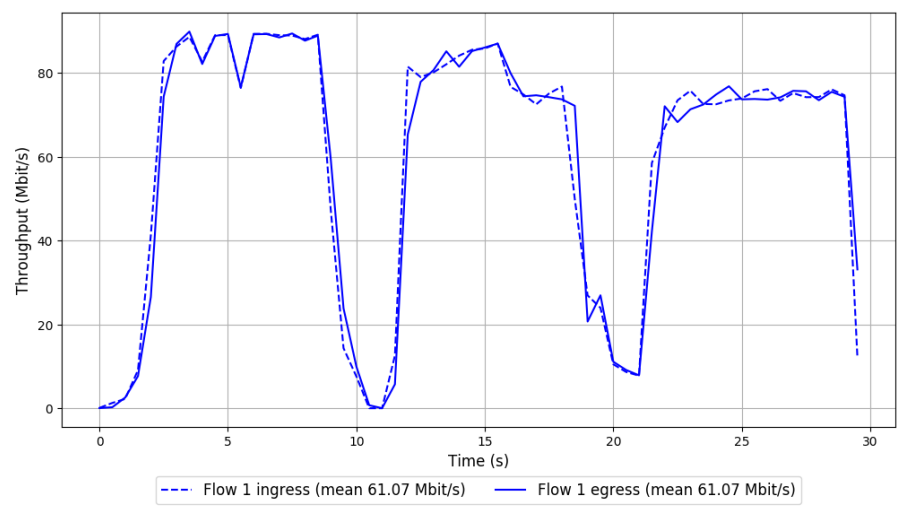
-- Flow 1:

Average throughput: 61.07 Mbit/s

95th percentile per-packet one-way delay: 136.671 ms

Loss rate: 0.00%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-02-16 18:05:52

End at: 2018-02-16 18:06:22

Below is generated by plot.py at 2018-02-16 21:48:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 61.67 Mbit/s

95th percentile per-packet one-way delay: 136.154 ms

Loss rate: 0.00%

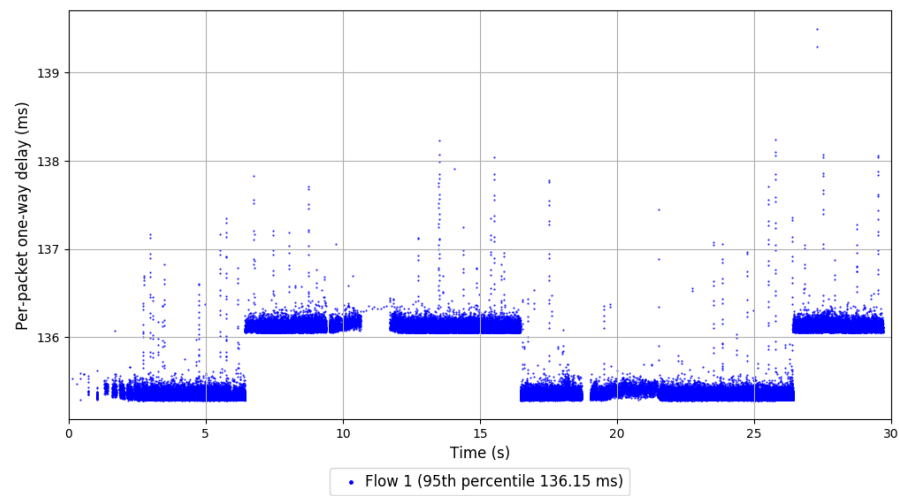
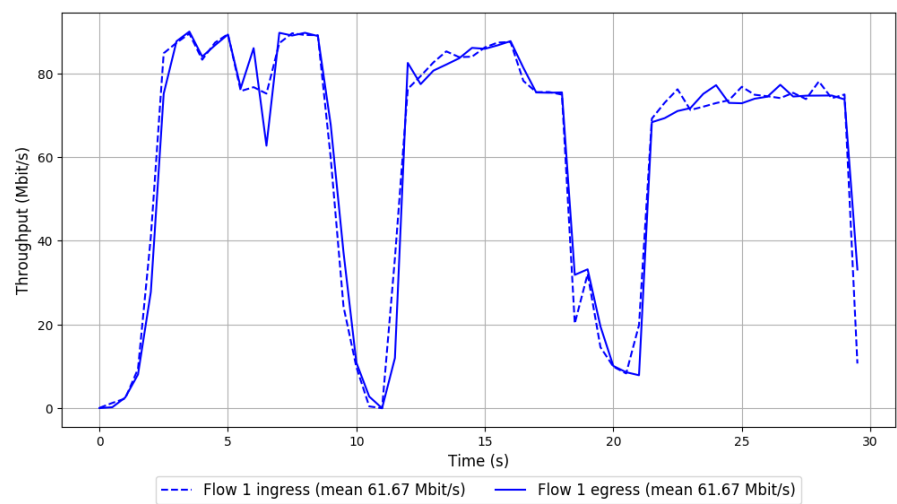
-- Flow 1:

Average throughput: 61.67 Mbit/s

95th percentile per-packet one-way delay: 136.154 ms

Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-02-16 18:21:52

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

Below is generated by plot.py at 2018-02-16 21:48:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 62.85 Mbit/s

95th percentile per-packet one-way delay: 136.997 ms

Loss rate: 0.00%

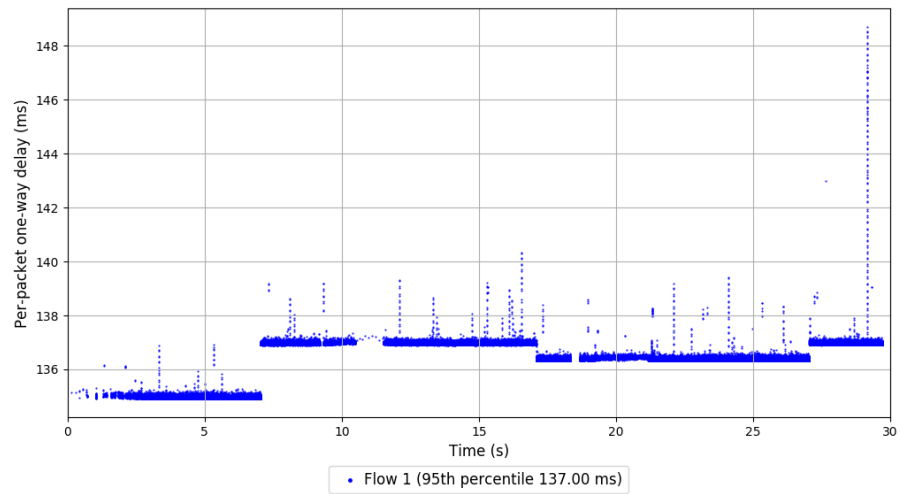
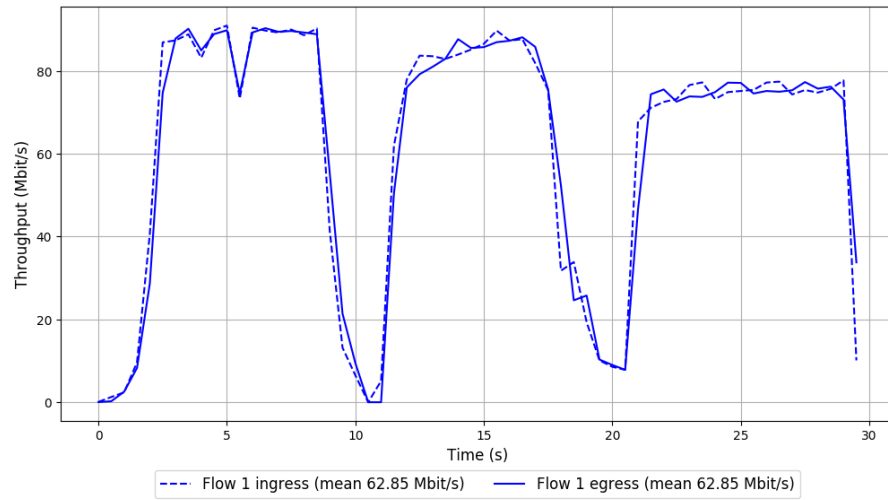
-- Flow 1:

Average throughput: 62.85 Mbit/s

95th percentile per-packet one-way delay: 136.997 ms

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-02-16 18:38:03

End at: 2018-02-16 18:38:33

Below is generated by plot.py at 2018-02-16 21:48:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 61.39 Mbit/s

95th percentile per-packet one-way delay: 136.702 ms

Loss rate: 0.00%

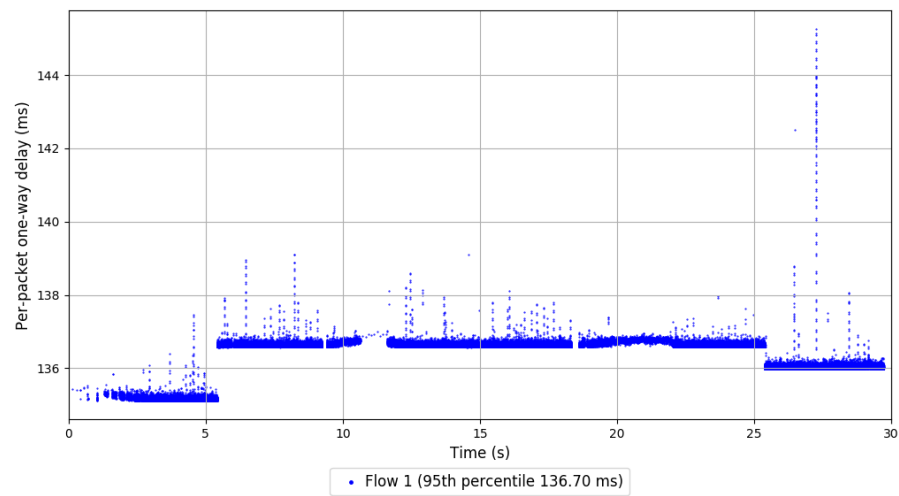
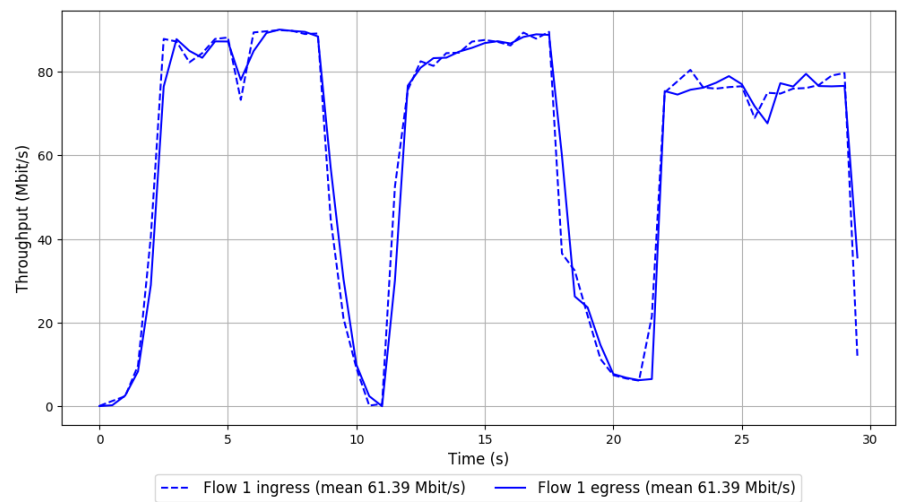
-- Flow 1:

Average throughput: 61.39 Mbit/s

95th percentile per-packet one-way delay: 136.702 ms

Loss rate: 0.00%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

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

End at: 2018-02-16 18:54:32

Below is generated by plot.py at 2018-02-16 21:48:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 60.35 Mbit/s

95th percentile per-packet one-way delay: 141.235 ms

Loss rate: 0.02%

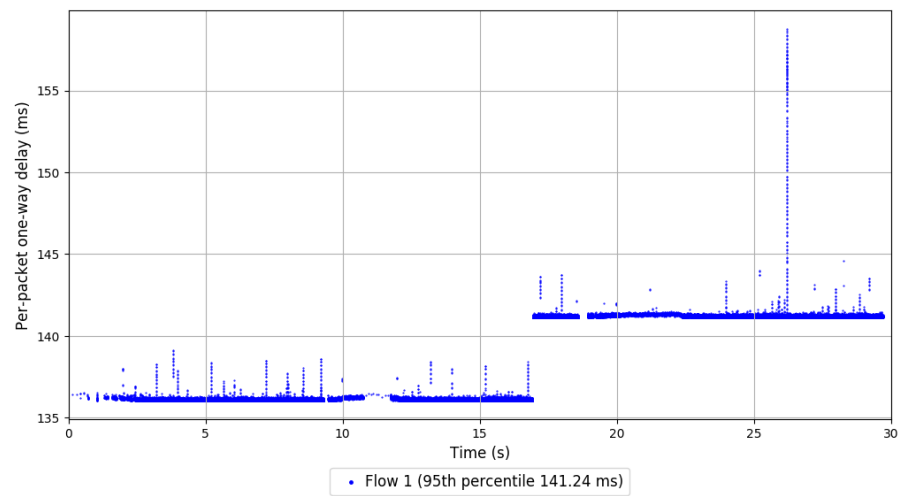
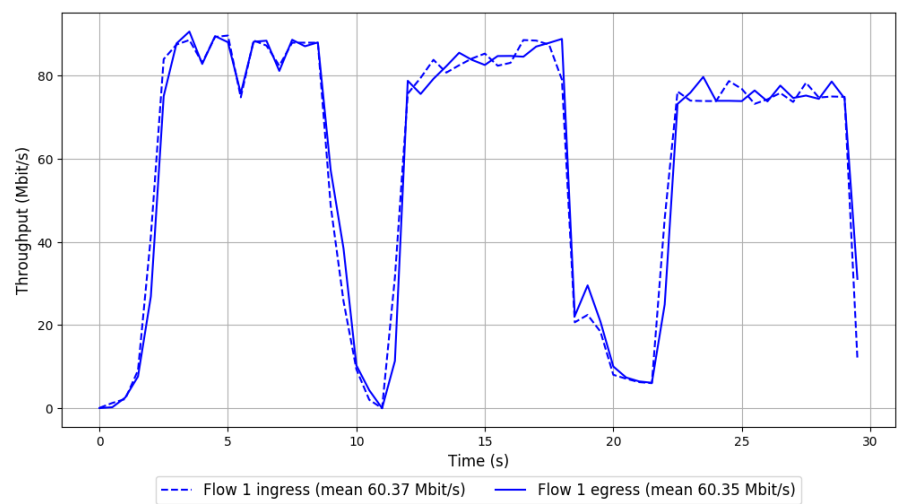
-- Flow 1:

Average throughput: 60.35 Mbit/s

95th percentile per-packet one-way delay: 141.235 ms

Loss rate: 0.02%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-02-16 19:10:37

End at: 2018-02-16 19:11:07

Below is generated by plot.py at 2018-02-16 21:48:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 15.42 Mbit/s

95th percentile per-packet one-way delay: 137.470 ms

Loss rate: 0.00%

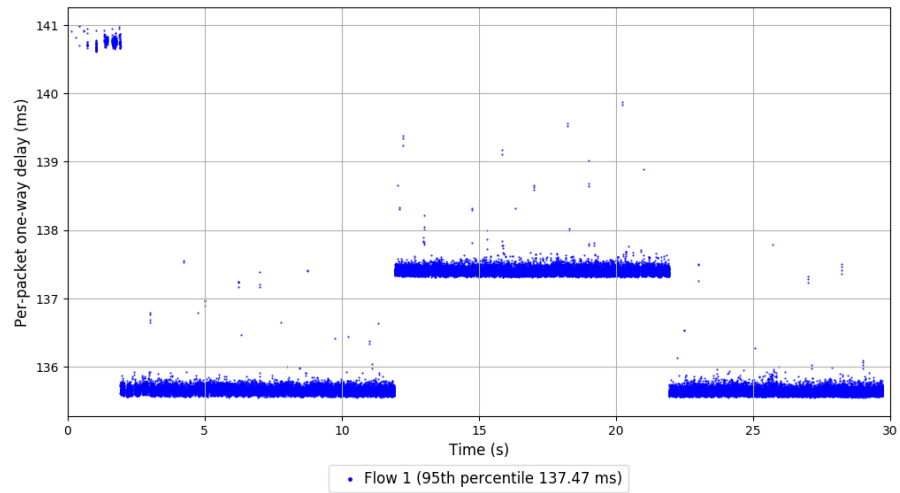
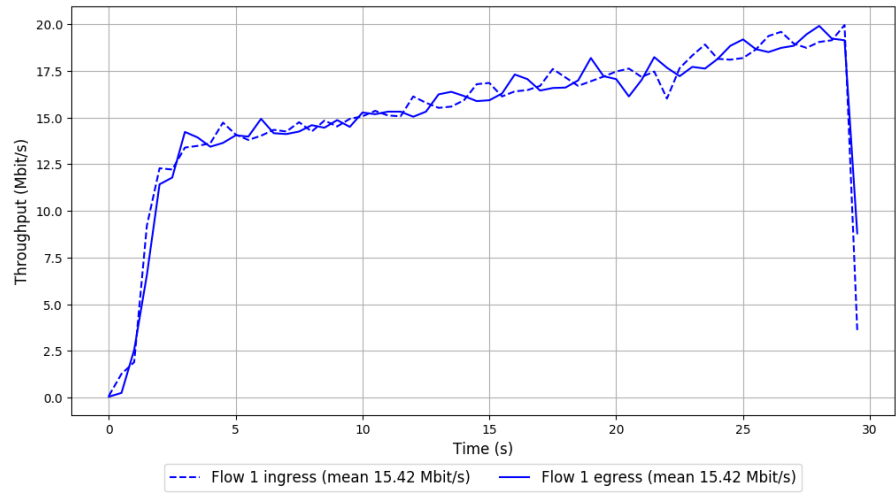
-- Flow 1:

Average throughput: 15.42 Mbit/s

95th percentile per-packet one-way delay: 137.470 ms

Loss rate: 0.00%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-02-16 19:27:06

End at: 2018-02-16 19:27:36

Below is generated by plot.py at 2018-02-16 21:48:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 60.42 Mbit/s

95th percentile per-packet one-way delay: 136.502 ms

Loss rate: 0.00%

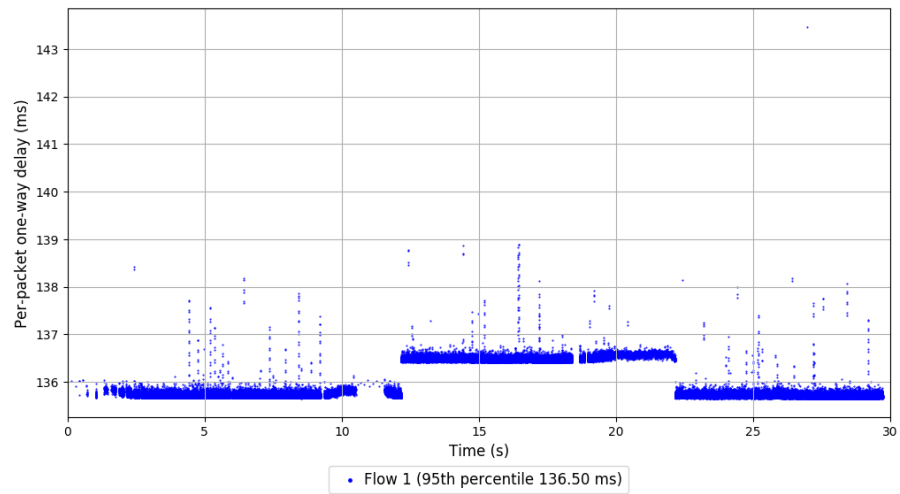
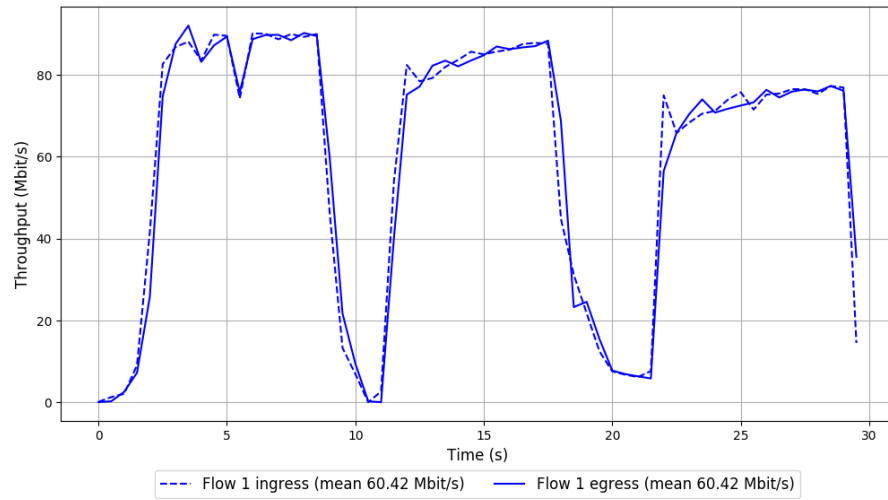
-- Flow 1:

Average throughput: 60.42 Mbit/s

95th percentile per-packet one-way delay: 136.502 ms

Loss rate: 0.00%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

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

End at: 2018-02-16 19:44:00

Below is generated by plot.py at 2018-02-16 21:48:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 61.22 Mbit/s

95th percentile per-packet one-way delay: 140.305 ms

Loss rate: 0.00%

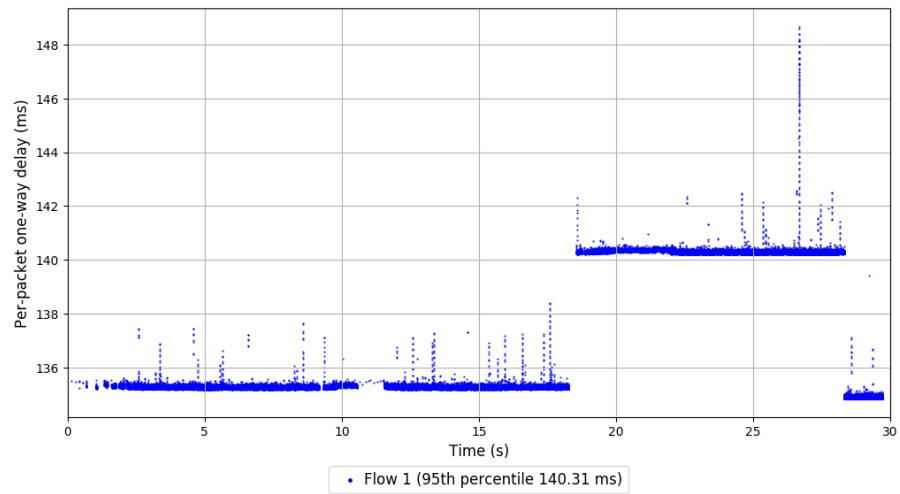
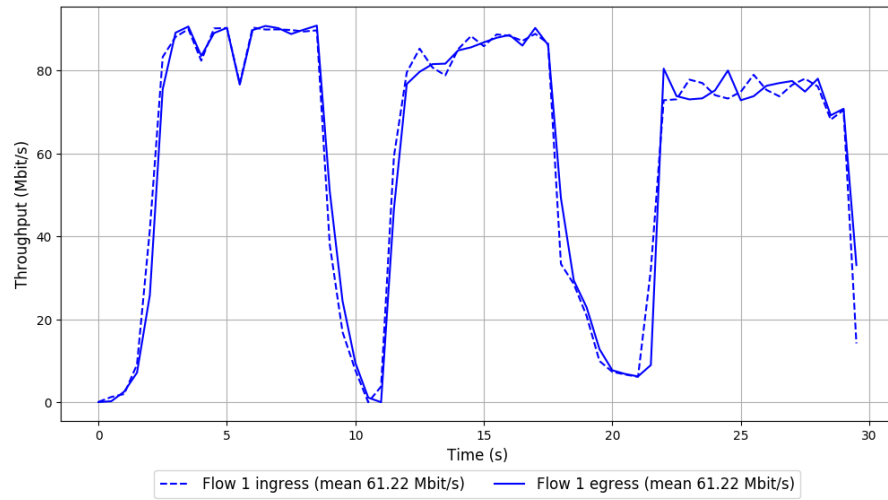
-- Flow 1:

Average throughput: 61.22 Mbit/s

95th percentile per-packet one-way delay: 140.305 ms

Loss rate: 0.00%

Run 9: Report of QUIC Cubic — Data Link

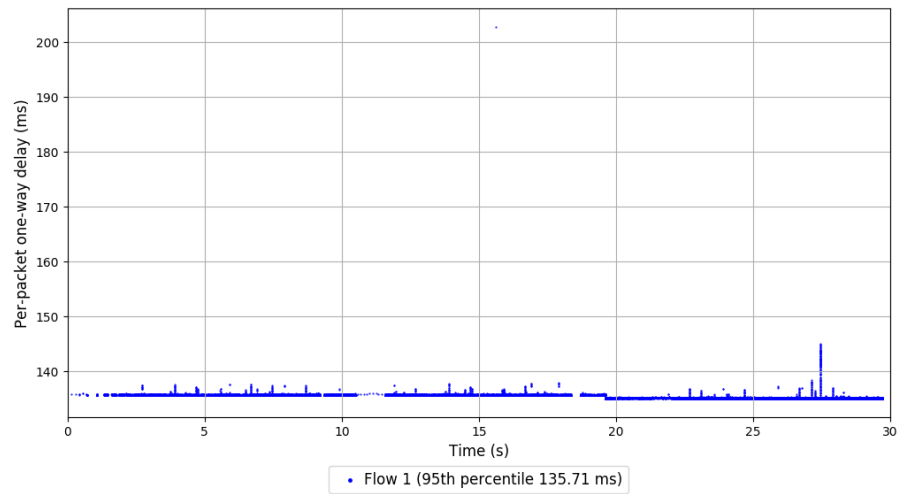
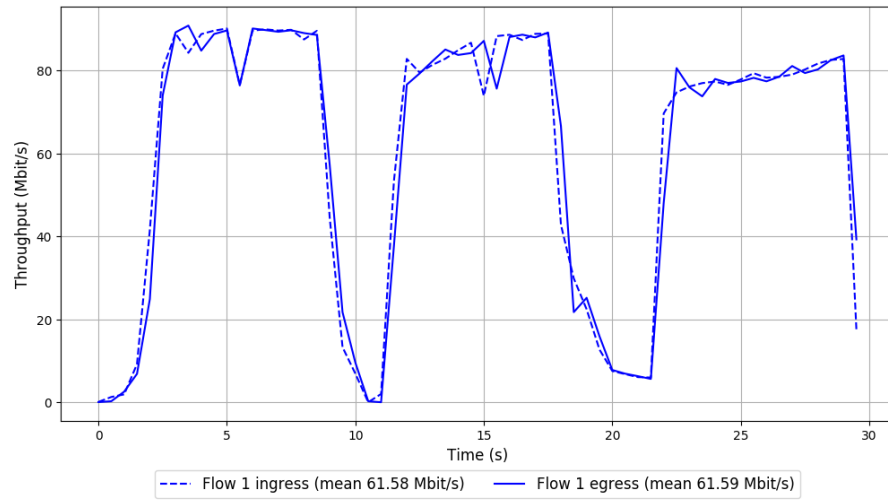


```
Run 10: Statistics of QUIC Cubic

Start at: 2018-02-16 19:59:39
End at: 2018-02-16 20:00:09

# Below is generated by plot.py at 2018-02-16 21:48:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 61.59 Mbit/s
95th percentile per-packet one-way delay: 135.714 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 61.59 Mbit/s
95th percentile per-packet one-way delay: 135.714 ms
Loss rate: 0.00%
```

Run 10: Report of QUIC Cubic — Data Link

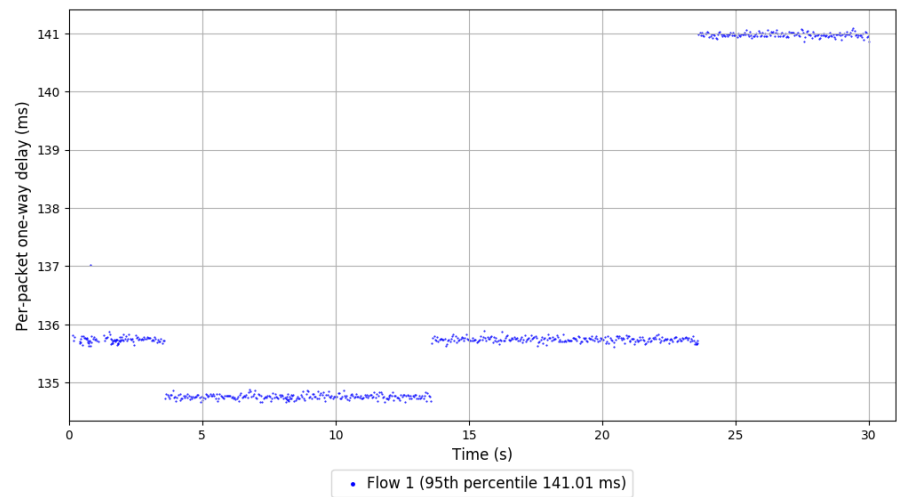
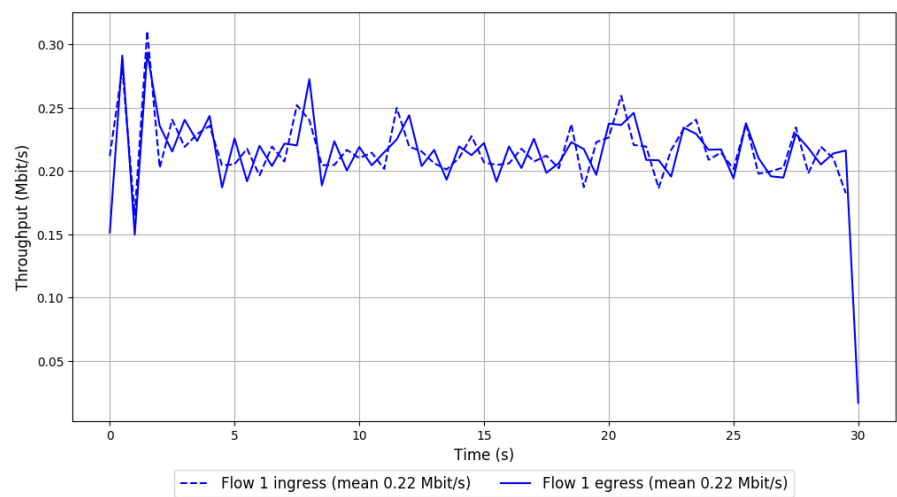


```
Run 1: Statistics of SCReAM

Start at: 2018-02-16 17:23:05
End at: 2018-02-16 17:23:35

# Below is generated by plot.py at 2018-02-16 21:48:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 141.006 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 141.006 ms
Loss rate: 0.12%
```

Run 1: Report of SReAM — Data Link

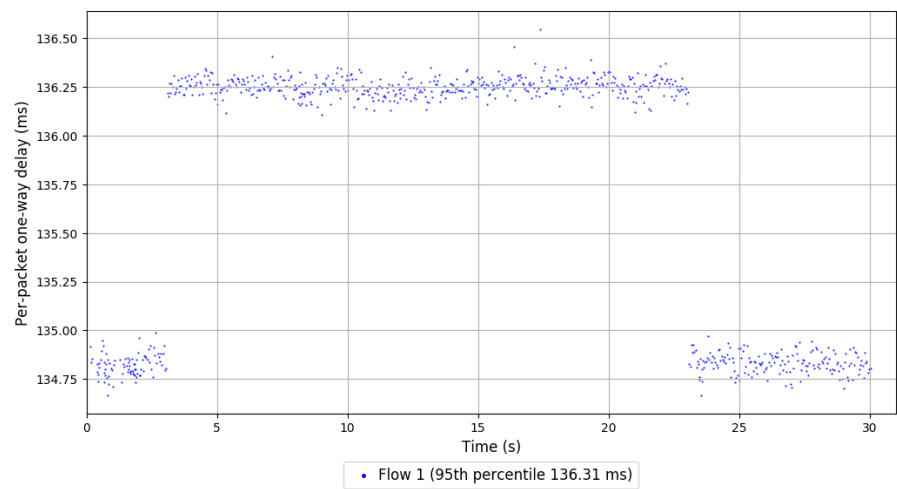
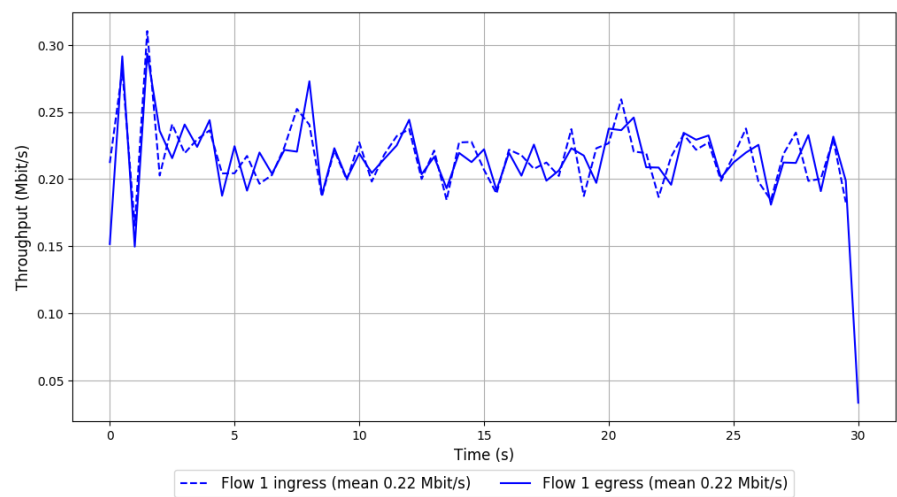


```
Run 2: Statistics of SCReAM

Start at: 2018-02-16 17:38:56
End at: 2018-02-16 17:39:26

# Below is generated by plot.py at 2018-02-16 21:48:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.315 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.315 ms
Loss rate: 0.00%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-02-16 17:55:05

End at: 2018-02-16 17:55:35

Below is generated by plot.py at 2018-02-16 21:48:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.17 Mbit/s

95th percentile per-packet one-way delay: 140.476 ms

Loss rate: 0.00%

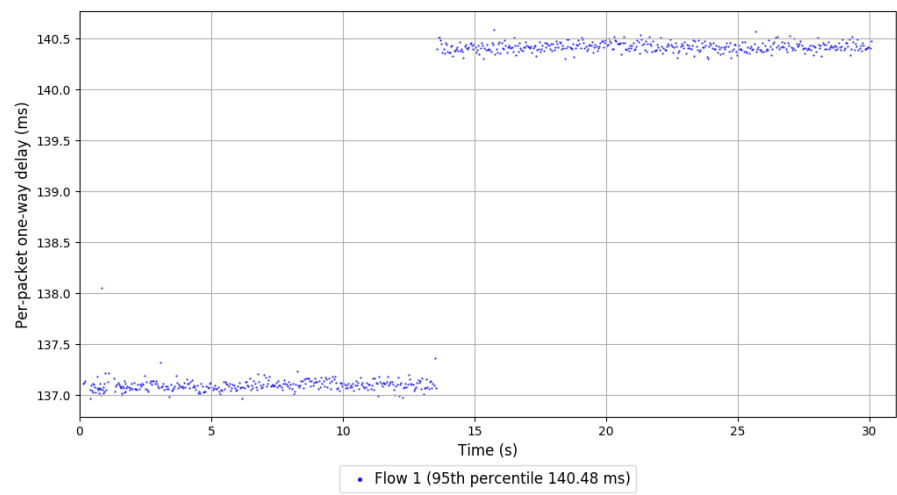
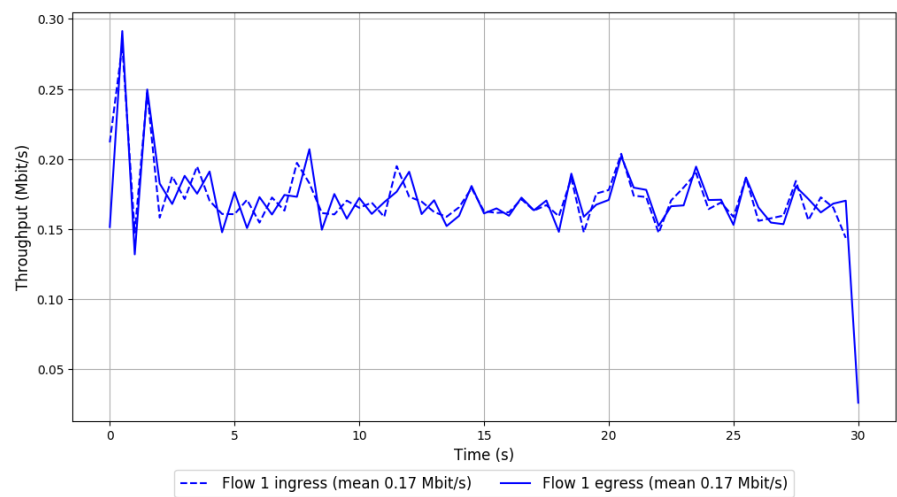
-- Flow 1:

Average throughput: 0.17 Mbit/s

95th percentile per-packet one-way delay: 140.476 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2018-02-16 18:11:06

End at: 2018-02-16 18:11:36

Below is generated by plot.py at 2018-02-16 21:48:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 140.490 ms

Loss rate: 0.00%

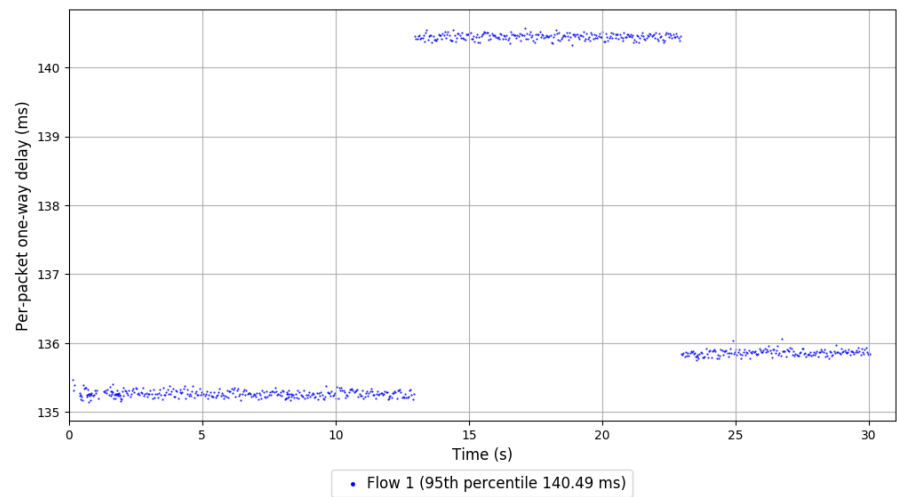
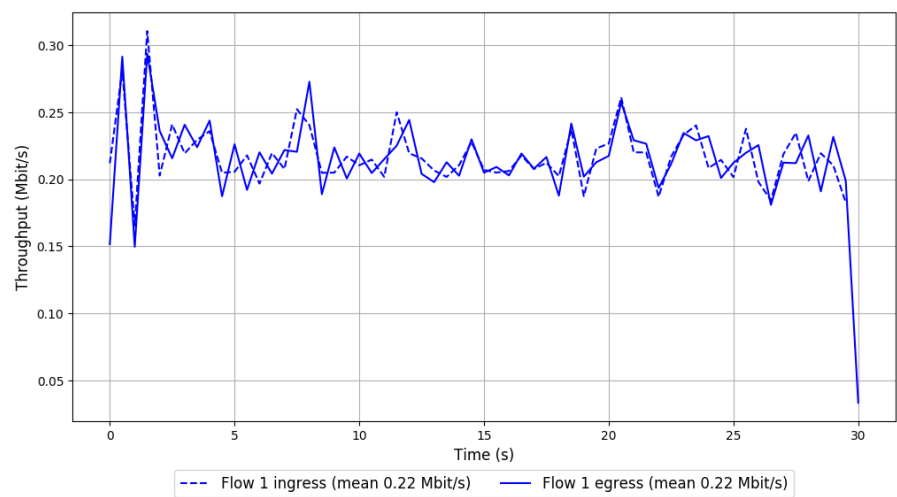
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 140.490 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

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

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

Below is generated by plot.py at 2018-02-16 21:48:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 137.382 ms

Loss rate: 0.00%

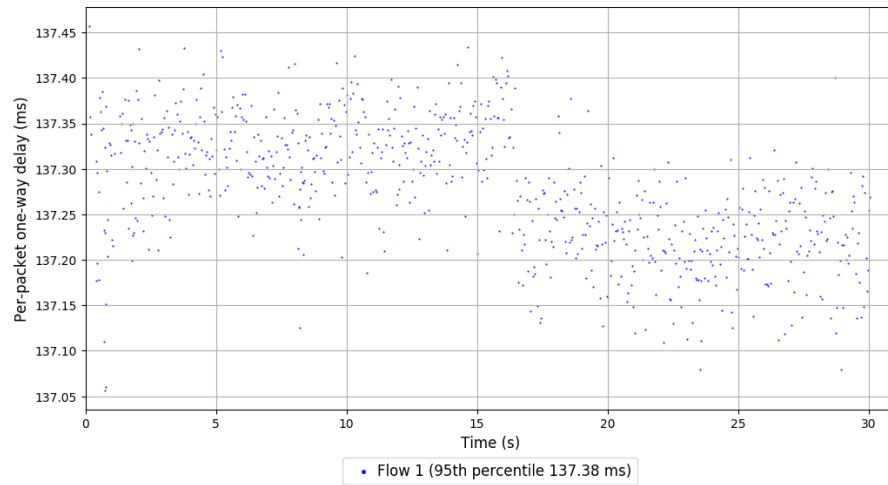
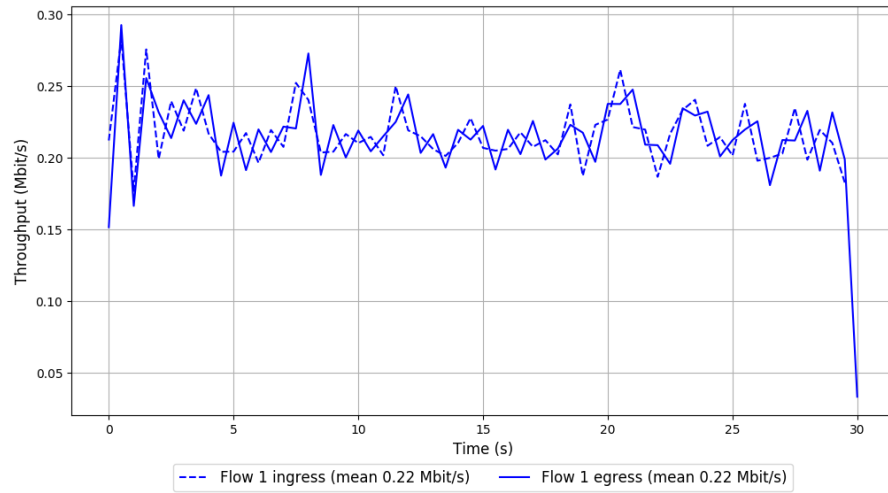
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 137.382 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-02-16 18:43:07

End at: 2018-02-16 18:43:37

Below is generated by plot.py at 2018-02-16 21:48:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 137.635 ms

Loss rate: 0.00%

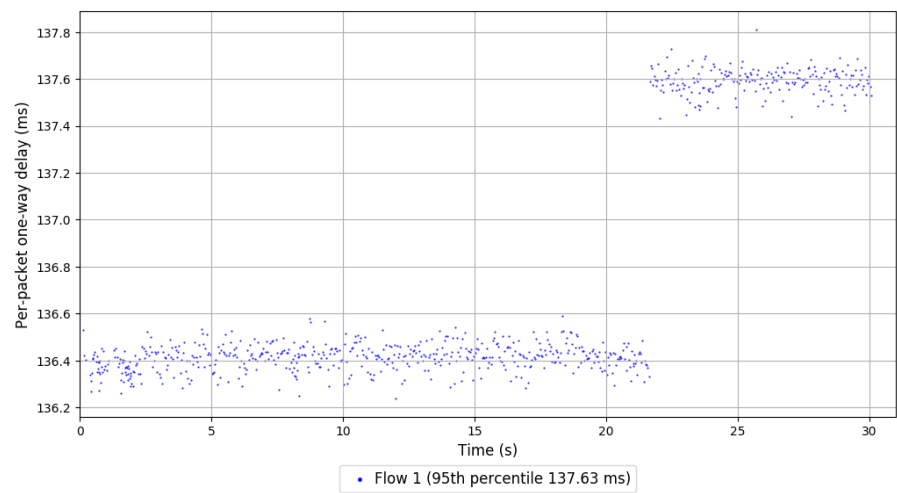
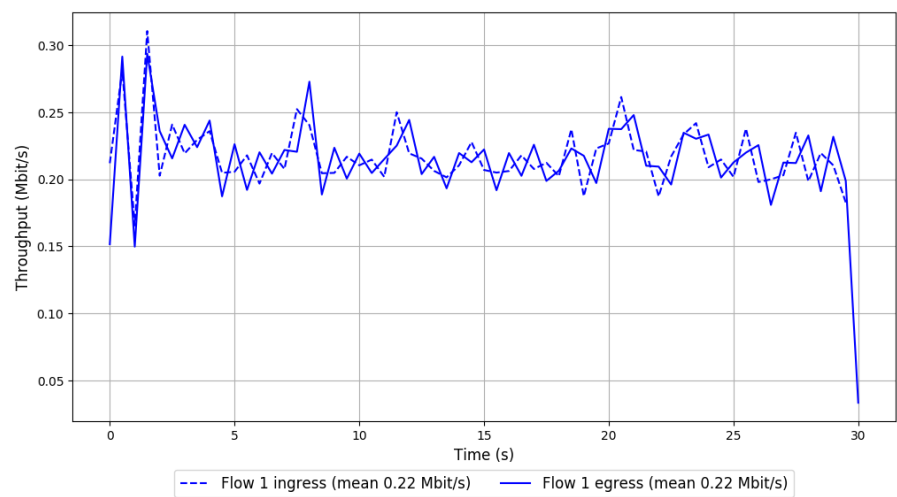
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 137.635 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

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

End at: 2018-02-16 18:59:55

Below is generated by plot.py at 2018-02-16 21:48:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 141.008 ms

Loss rate: 0.00%

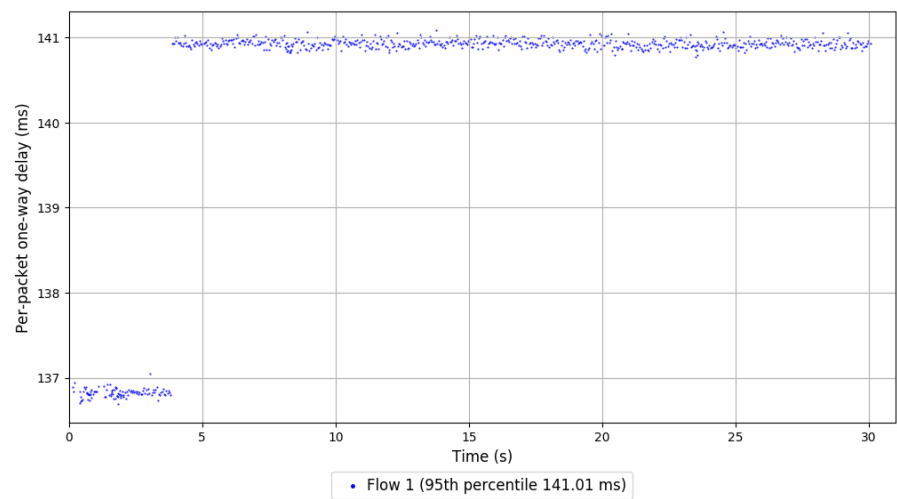
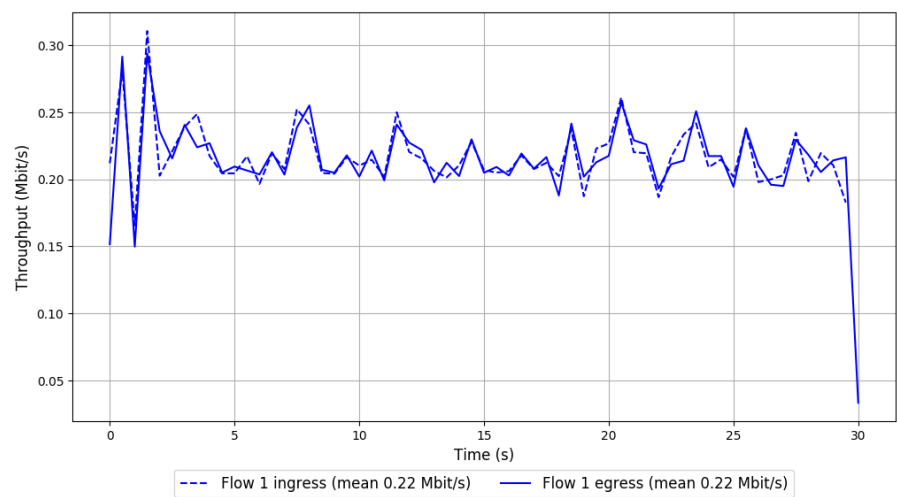
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 141.008 ms

Loss rate: 0.00%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-02-16 19:15:59

End at: 2018-02-16 19:16:29

Below is generated by plot.py at 2018-02-16 21:48:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.955 ms

Loss rate: 0.00%

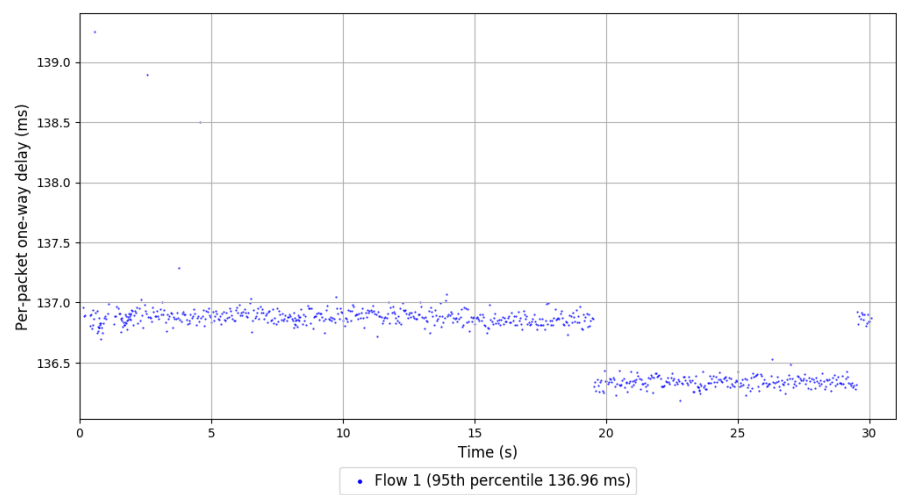
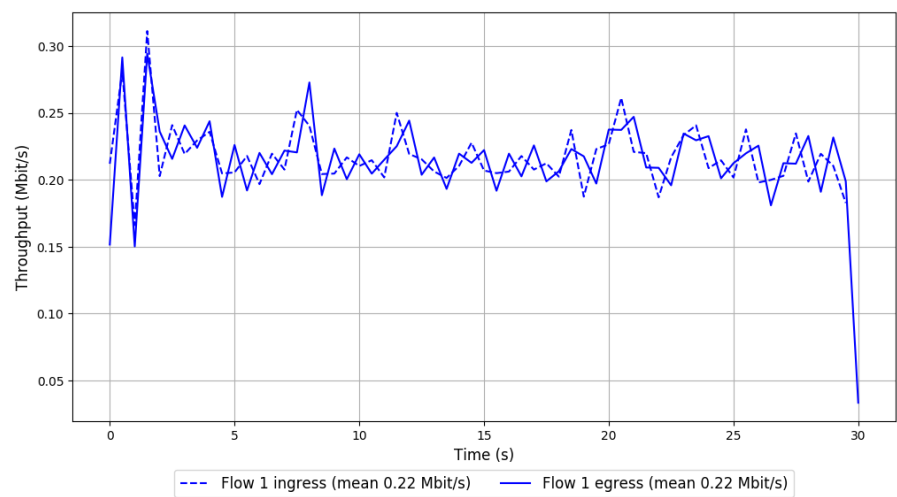
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.955 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-02-16 19:32:24

End at: 2018-02-16 19:32:54

Below is generated by plot.py at 2018-02-16 21:48:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 137.333 ms

Loss rate: 0.00%

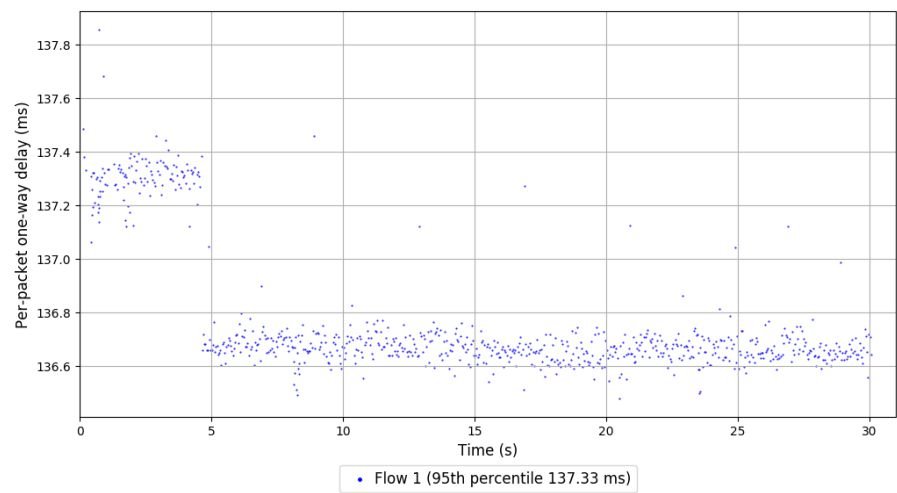
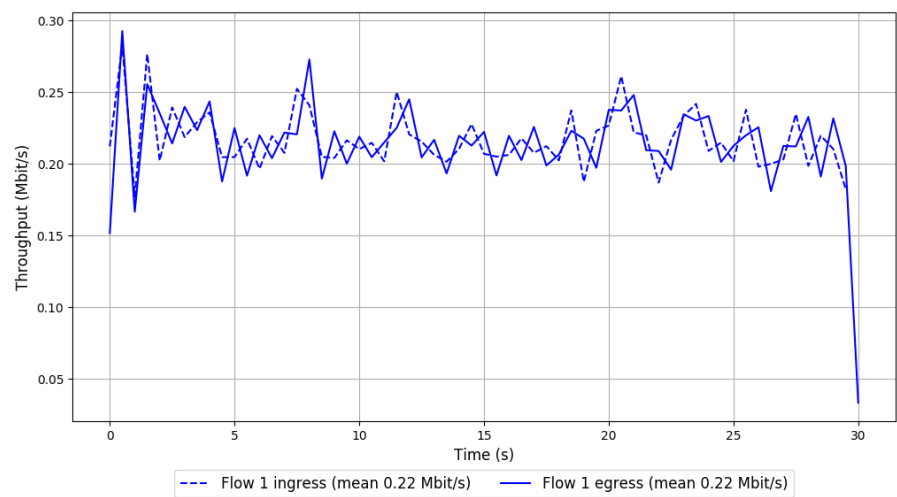
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 137.333 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-02-16 19:48:45

End at: 2018-02-16 19:49:15

Below is generated by plot.py at 2018-02-16 21:48:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 141.135 ms

Loss rate: 0.00%

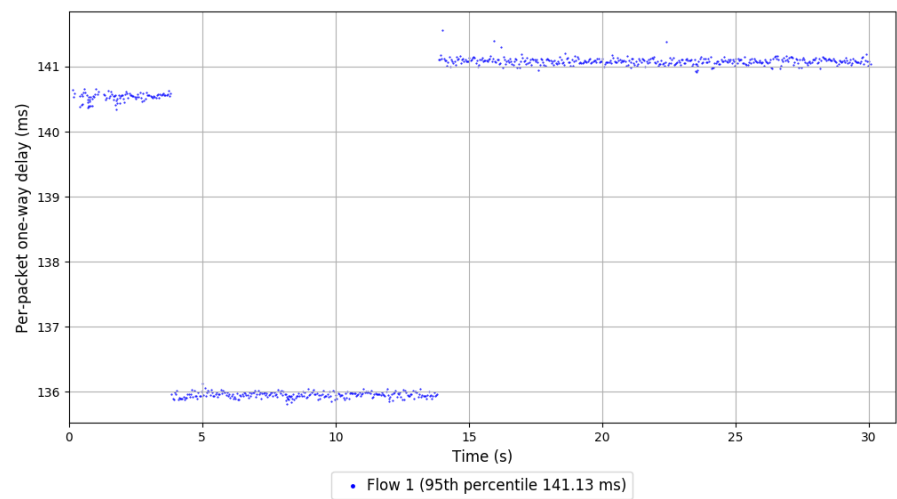
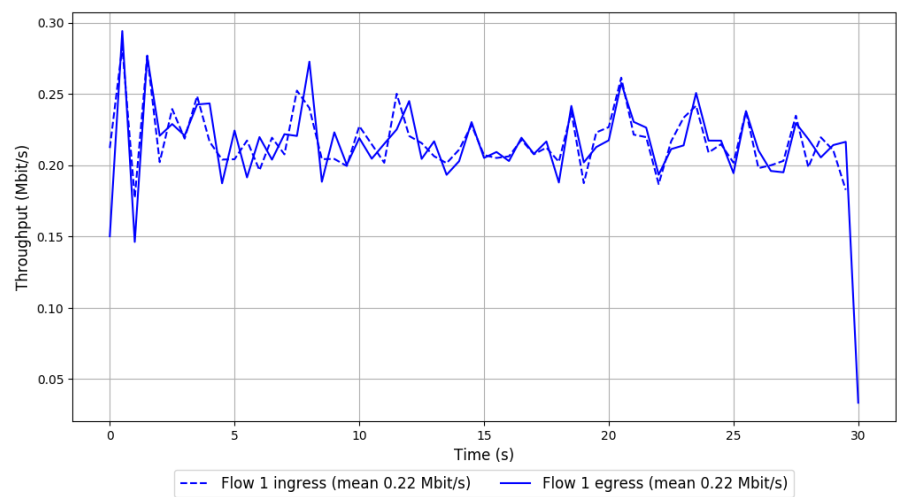
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 141.135 ms

Loss rate: 0.00%

Run 10: Report of SReAM — Data Link



Run 1: Statistics of WebRTC media

Start at: 2018-02-16 17:28:04

End at: 2018-02-16 17:28:34

Below is generated by plot.py at 2018-02-16 21:48:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.02 Mbit/s

95th percentile per-packet one-way delay: 136.424 ms

Loss rate: 0.00%

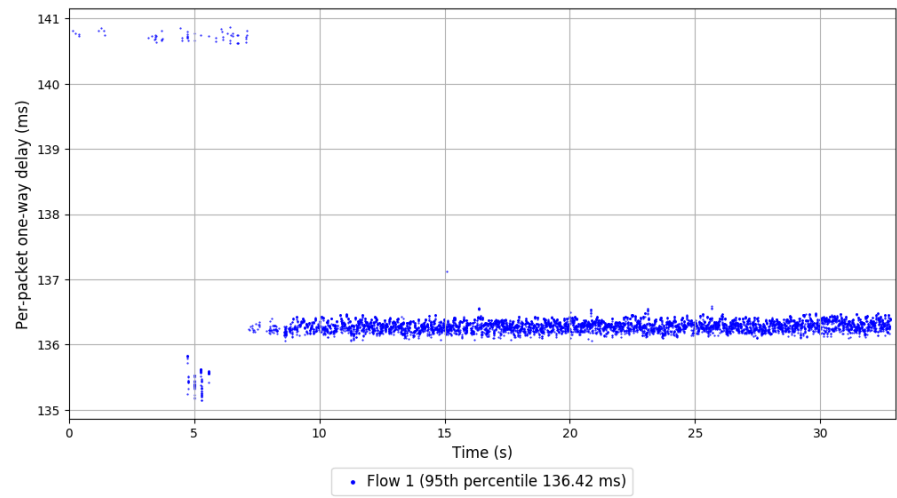
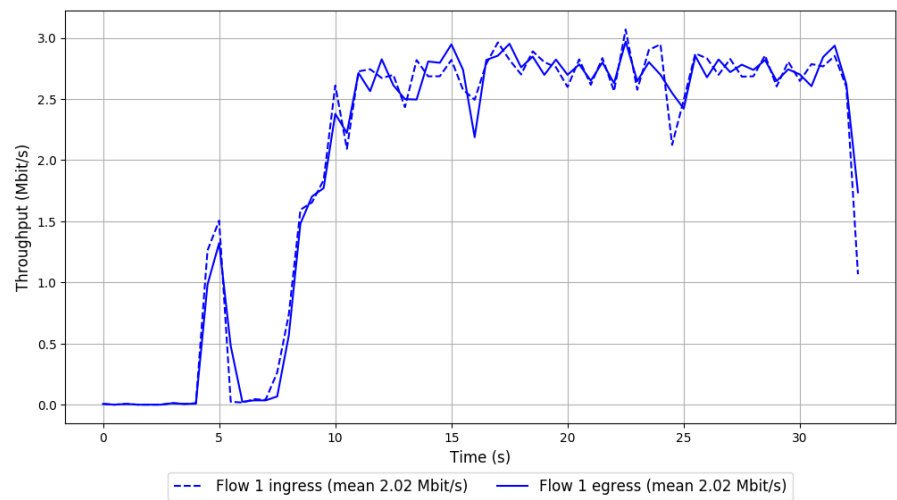
-- Flow 1:

Average throughput: 2.02 Mbit/s

95th percentile per-packet one-way delay: 136.424 ms

Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-02-16 17:44:00

End at: 2018-02-16 17:44:30

Below is generated by plot.py at 2018-02-16 21:48:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 136.869 ms

Loss rate: 0.00%

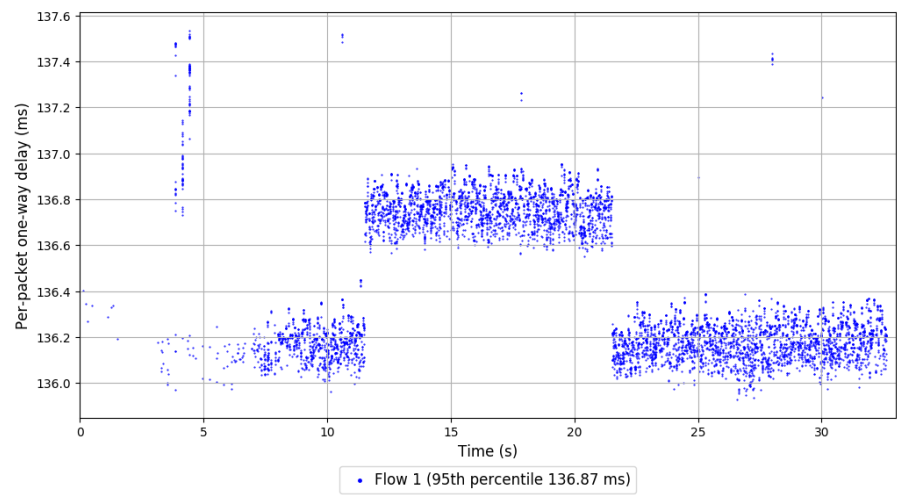
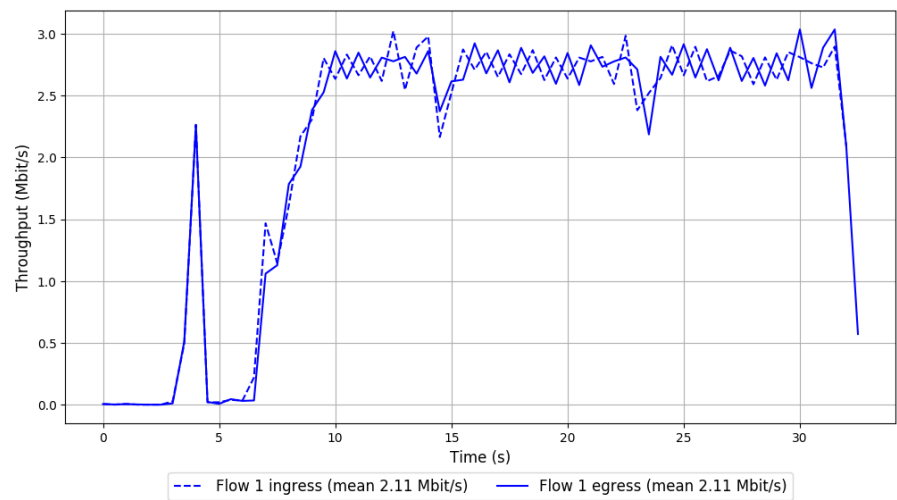
-- Flow 1:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 136.869 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-02-16 18:00:25

End at: 2018-02-16 18:00:55

Below is generated by plot.py at 2018-02-16 21:48:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.10 Mbit/s

95th percentile per-packet one-way delay: 135.395 ms

Loss rate: 0.00%

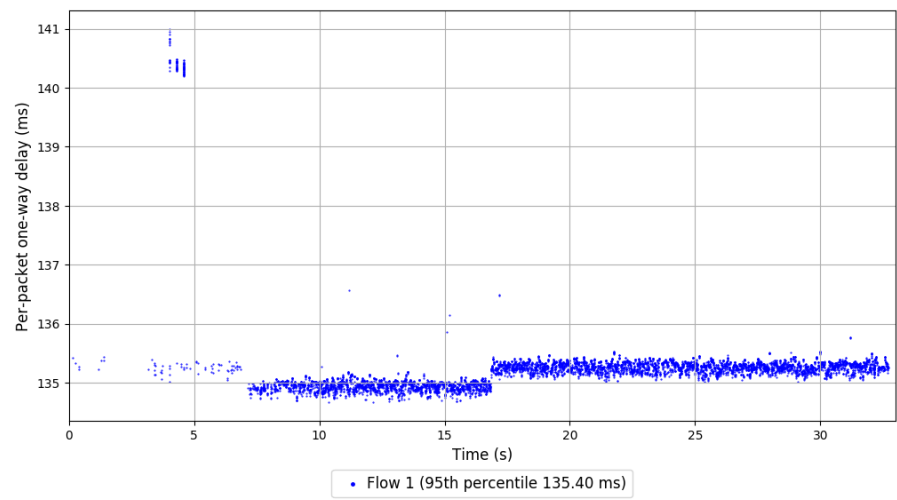
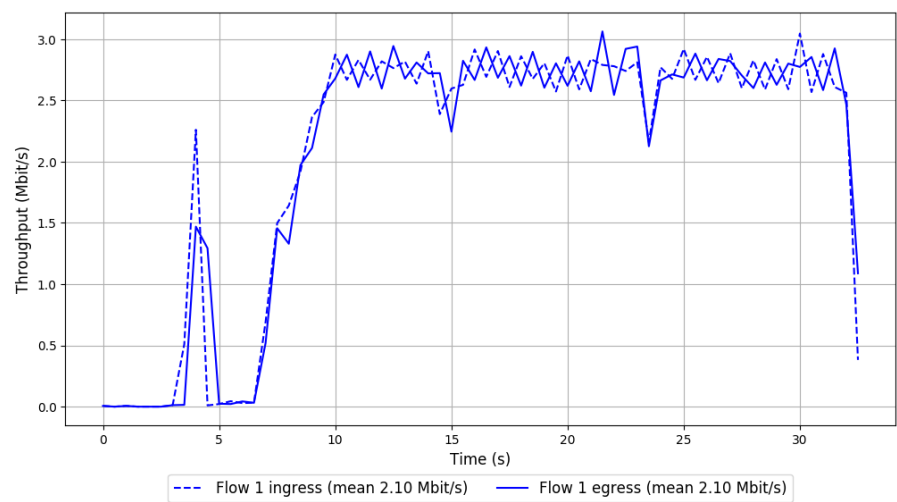
-- Flow 1:

Average throughput: 2.10 Mbit/s

95th percentile per-packet one-way delay: 135.395 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

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

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

Below is generated by plot.py at 2018-02-16 21:48:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 136.546 ms

Loss rate: 0.00%

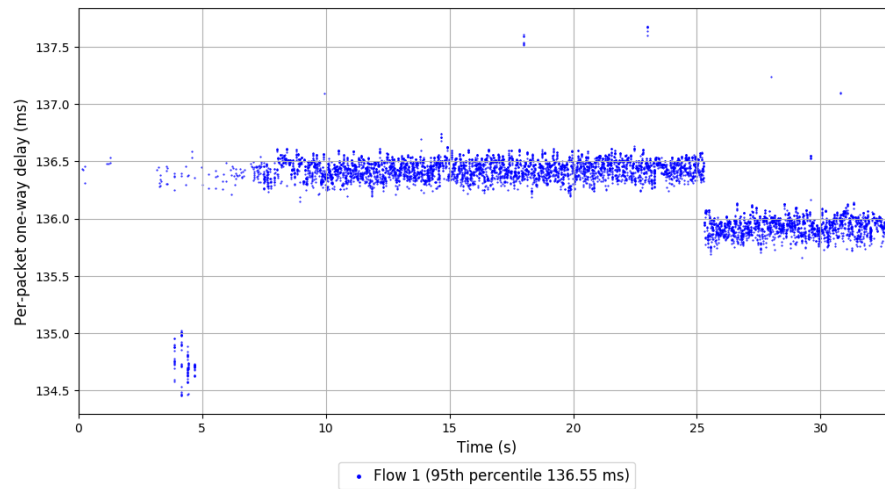
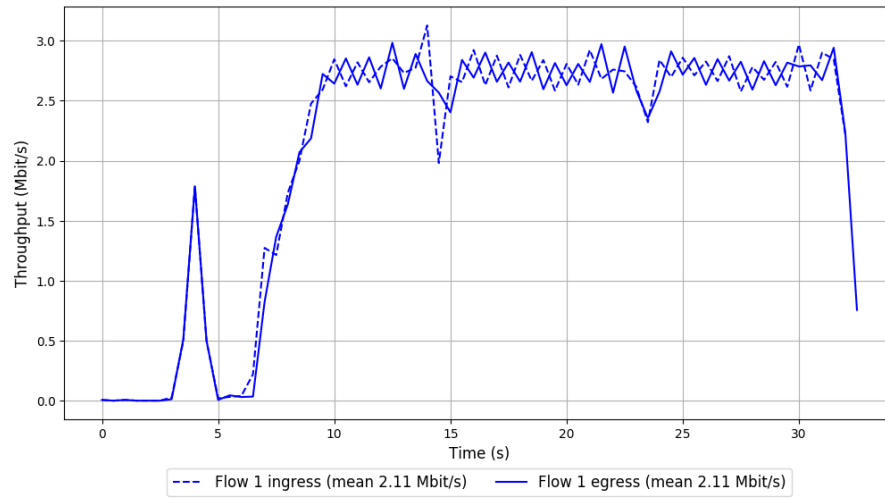
-- Flow 1:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 136.546 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-02-16 18:32:09

End at: 2018-02-16 18:32:39

Below is generated by plot.py at 2018-02-16 21:48:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.10 Mbit/s

95th percentile per-packet one-way delay: 140.911 ms

Loss rate: 0.00%

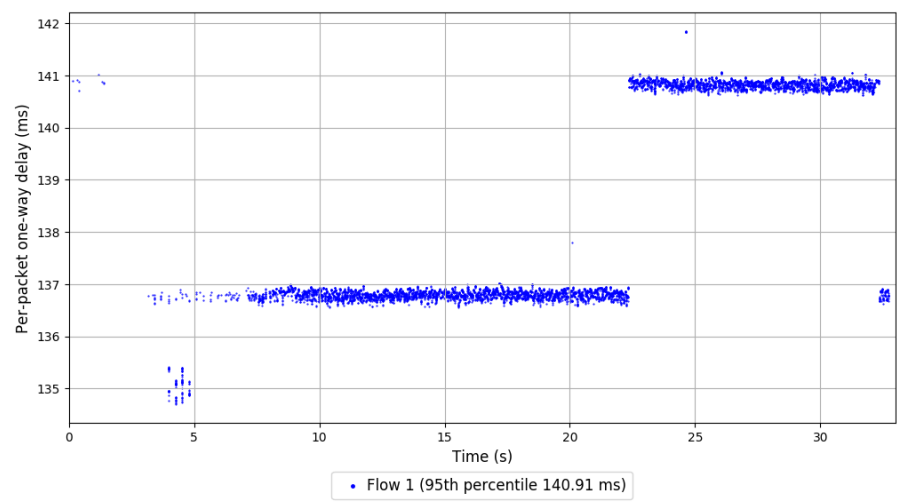
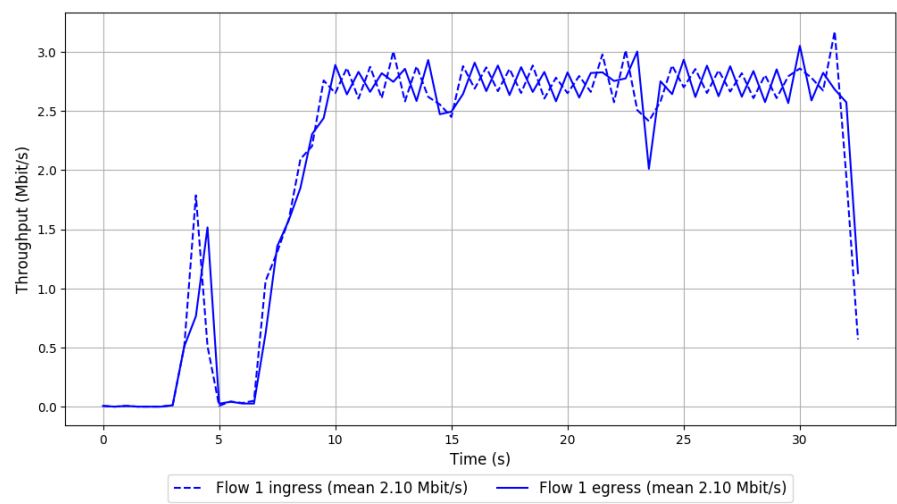
-- Flow 1:

Average throughput: 2.10 Mbit/s

95th percentile per-packet one-way delay: 140.911 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-02-16 18:48:12

End at: 2018-02-16 18:48:42

Below is generated by plot.py at 2018-02-16 21:48:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 136.666 ms

Loss rate: 0.00%

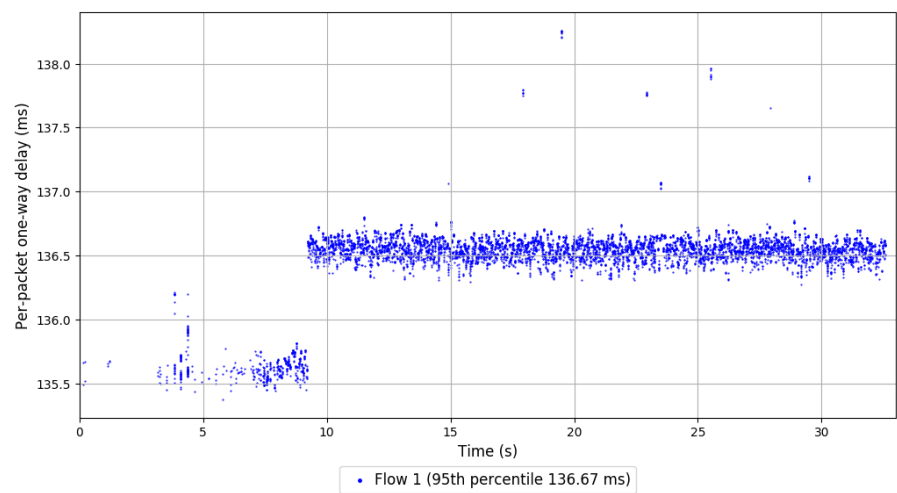
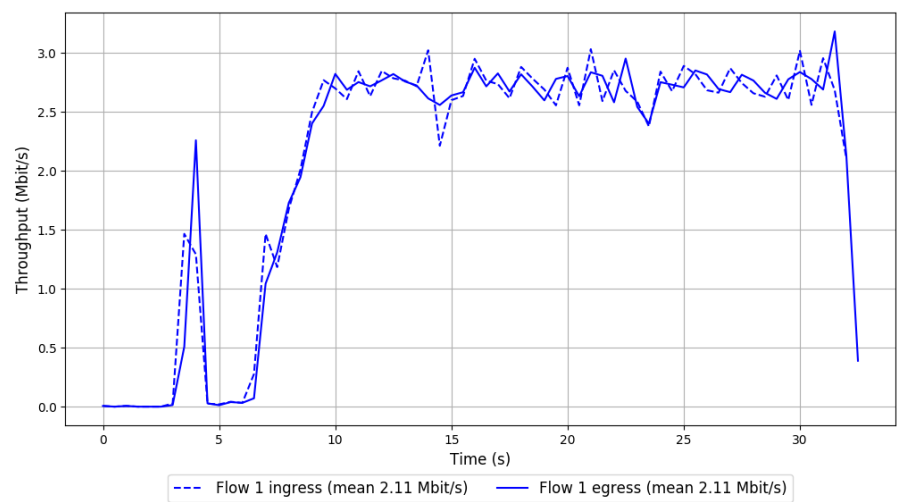
-- Flow 1:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 136.666 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-02-16 19:04:29

End at: 2018-02-16 19:04:59

Below is generated by plot.py at 2018-02-16 21:48:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 140.947 ms

Loss rate: 0.01%

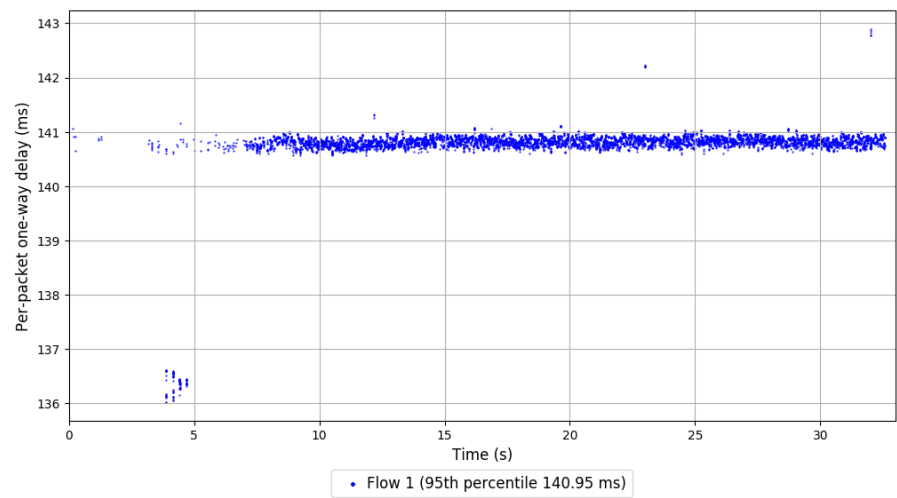
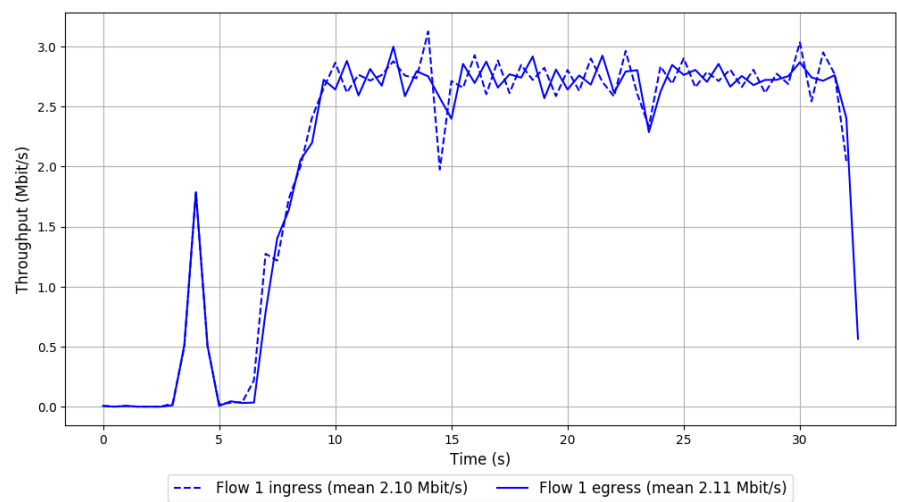
-- Flow 1:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 140.947 ms

Loss rate: 0.01%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-02-16 19:21:04

End at: 2018-02-16 19:21:34

Below is generated by plot.py at 2018-02-16 21:48:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 137.606 ms

Loss rate: 0.01%

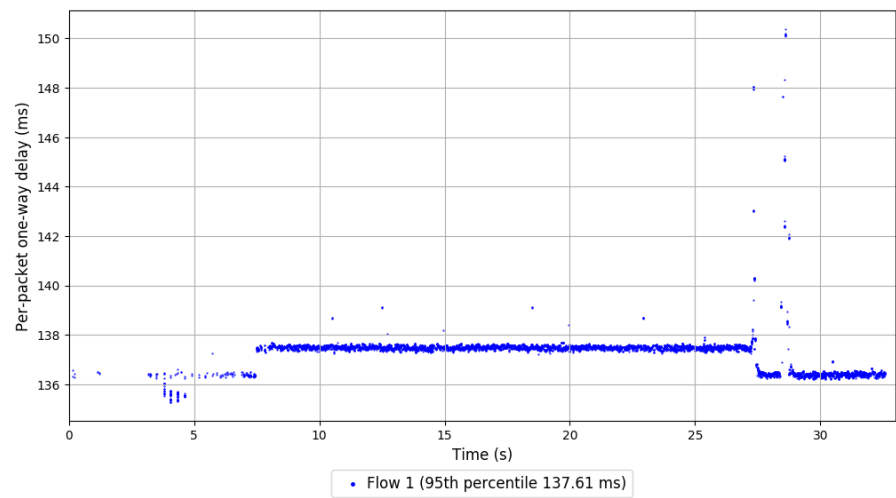
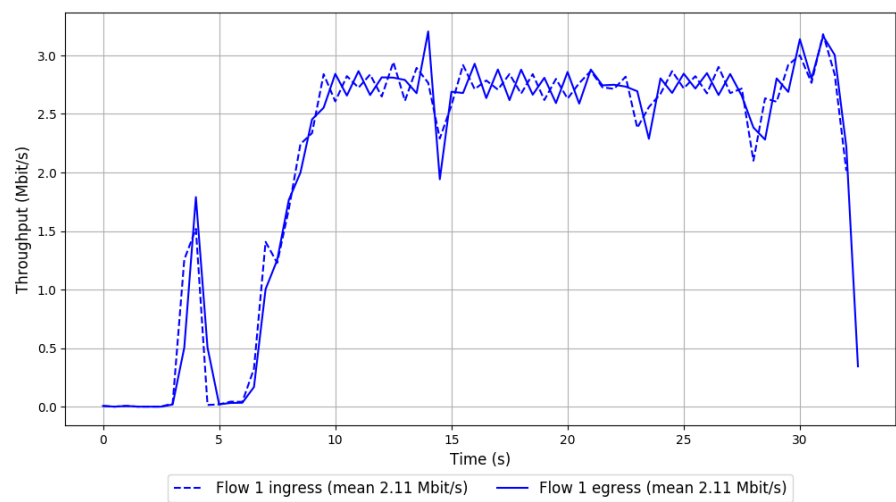
-- Flow 1:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 137.606 ms

Loss rate: 0.01%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-02-16 19:37:30

End at: 2018-02-16 19:38:00

Below is generated by plot.py at 2018-02-16 21:48:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.19 Mbit/s

95th percentile per-packet one-way delay: 135.523 ms

Loss rate: 0.00%

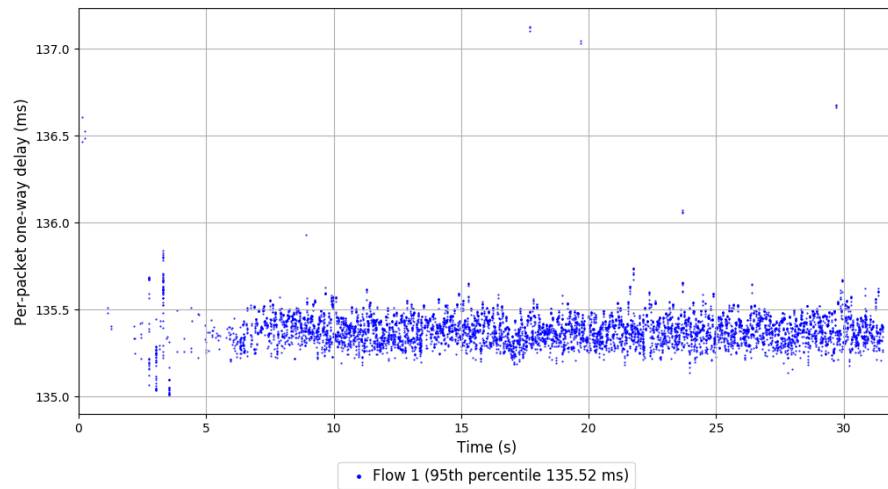
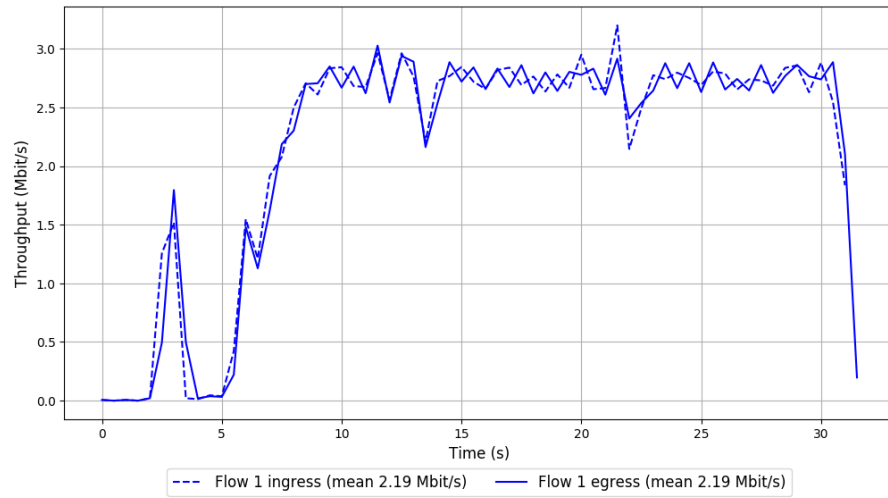
-- Flow 1:

Average throughput: 2.19 Mbit/s

95th percentile per-packet one-way delay: 135.523 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-02-16 19:53:50

End at: 2018-02-16 19:54:20

Below is generated by plot.py at 2018-02-16 21:48:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 141.160 ms

Loss rate: 0.00%

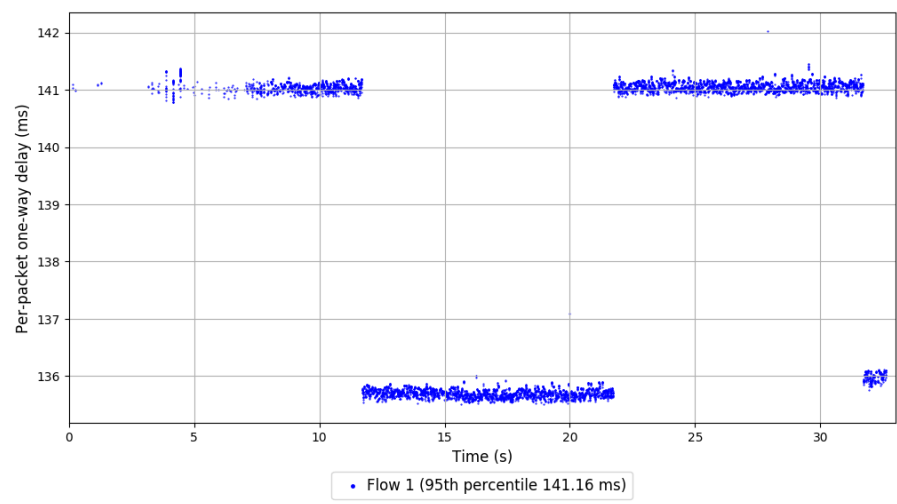
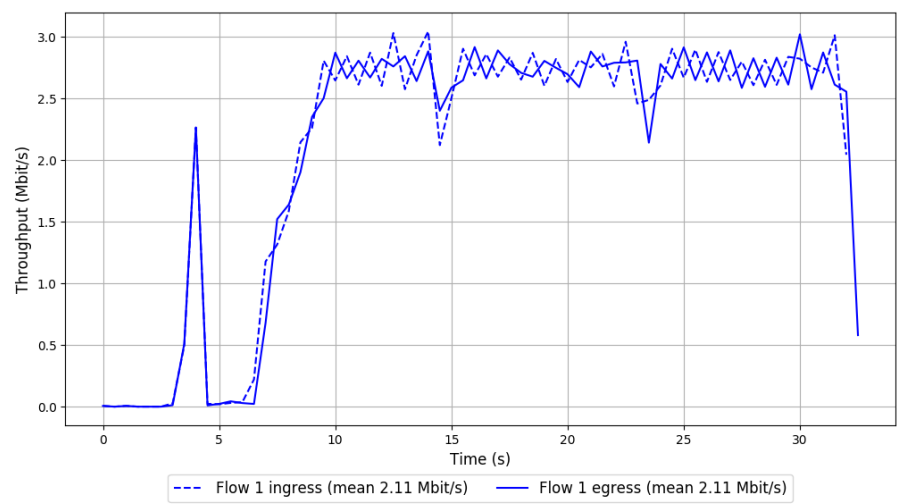
-- Flow 1:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 141.160 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2018-02-16 17:30:53

End at: 2018-02-16 17:31:23

Below is generated by plot.py at 2018-02-16 21:48:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 136.973 ms

Loss rate: 0.00%

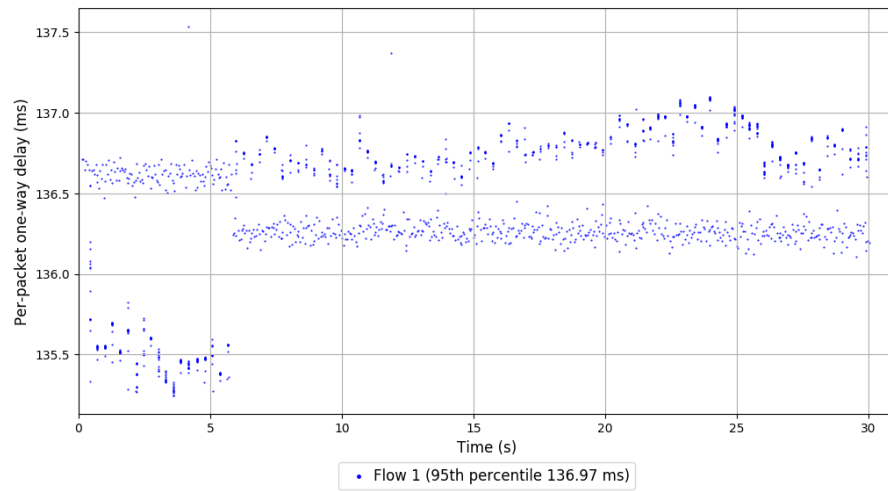
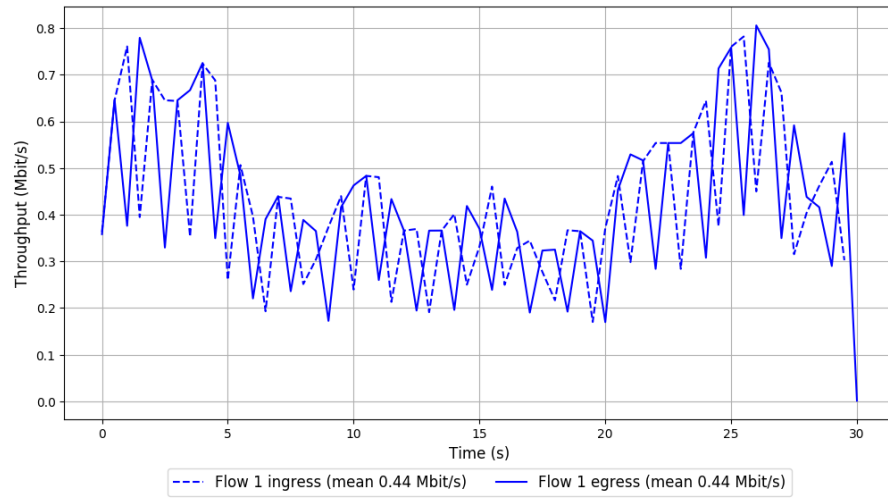
-- Flow 1:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 136.973 ms

Loss rate: 0.00%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-02-16 17:46:47

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

Below is generated by plot.py at 2018-02-16 21:48:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 140.279 ms

Loss rate: 0.00%

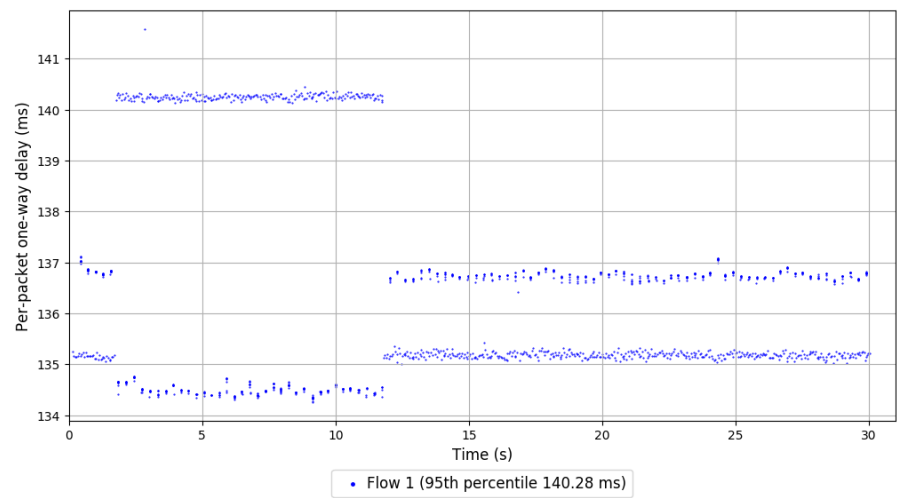
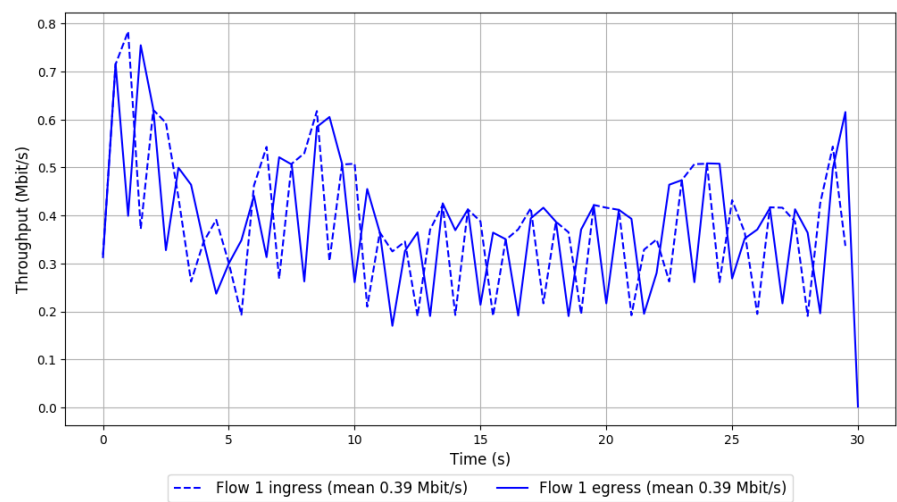
-- Flow 1:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 140.279 ms

Loss rate: 0.00%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-02-16 18:03:11

End at: 2018-02-16 18:03:41

Below is generated by plot.py at 2018-02-16 21:48:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 140.460 ms

Loss rate: 0.00%

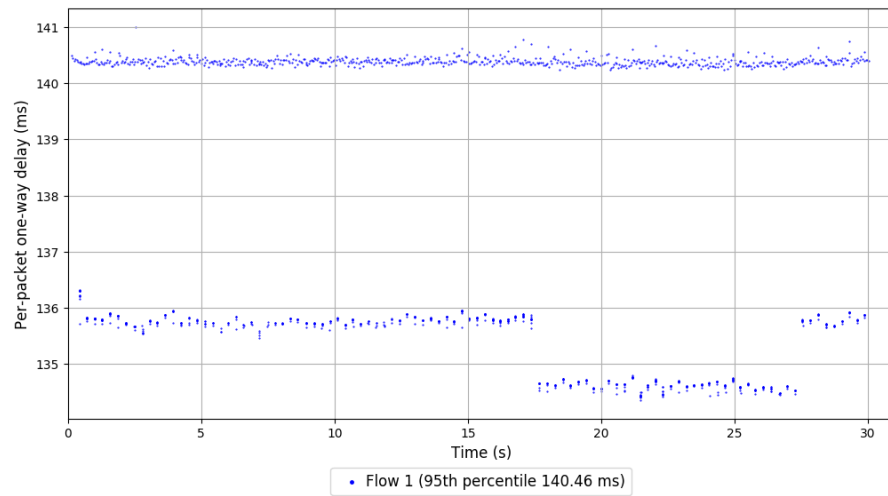
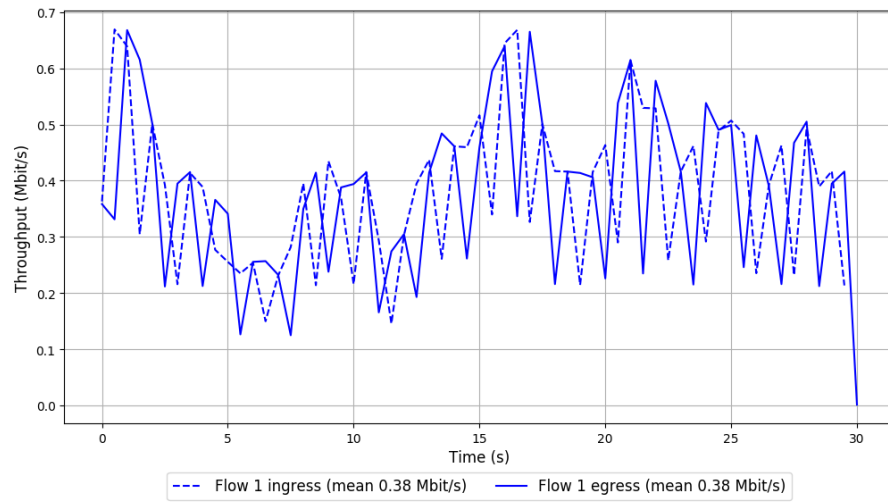
-- Flow 1:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 140.460 ms

Loss rate: 0.00%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

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

End at: 2018-02-16 18:19:23

Below is generated by plot.py at 2018-02-16 21:48:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 136.577 ms

Loss rate: 0.00%

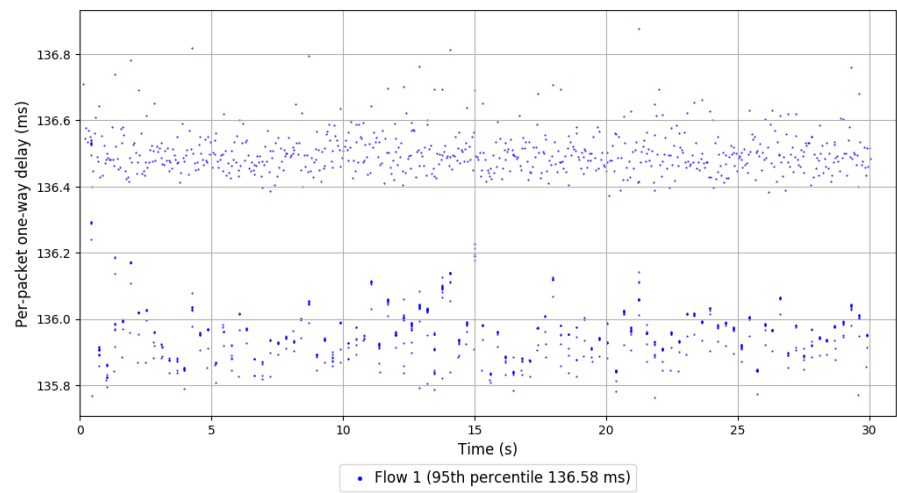
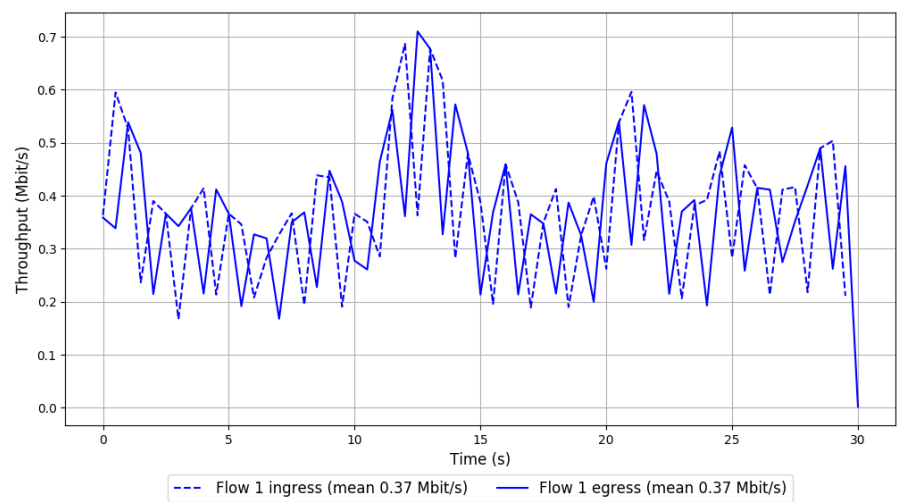
-- Flow 1:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 136.577 ms

Loss rate: 0.00%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-02-16 18:35:07

End at: 2018-02-16 18:35:37

Below is generated by plot.py at 2018-02-16 21:48:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 136.949 ms

Loss rate: 0.00%

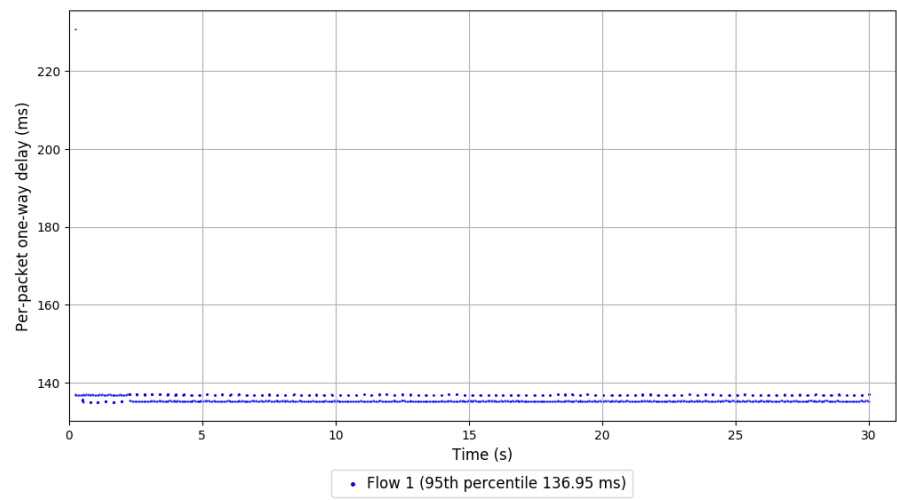
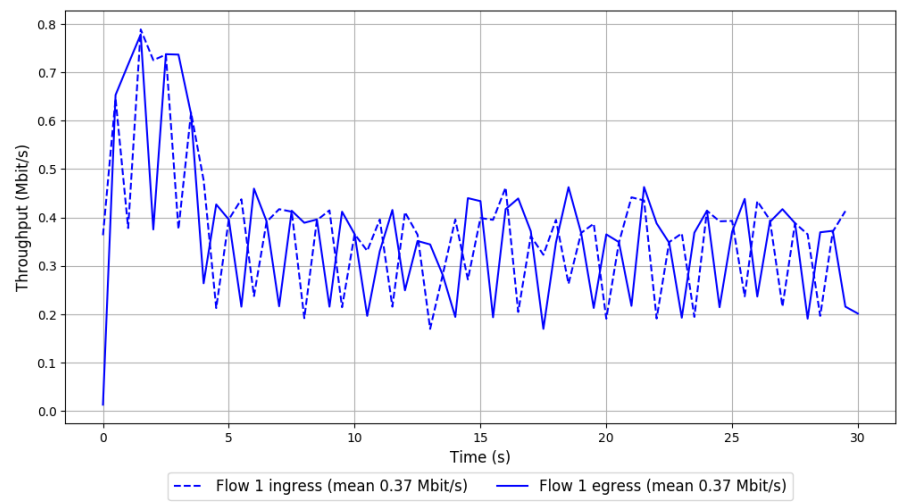
-- Flow 1:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 136.949 ms

Loss rate: 0.00%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-02-16 18:51:00

End at: 2018-02-16 18:51:31

Below is generated by plot.py at 2018-02-16 21:48:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.36 Mbit/s

95th percentile per-packet one-way delay: 137.473 ms

Loss rate: 0.00%

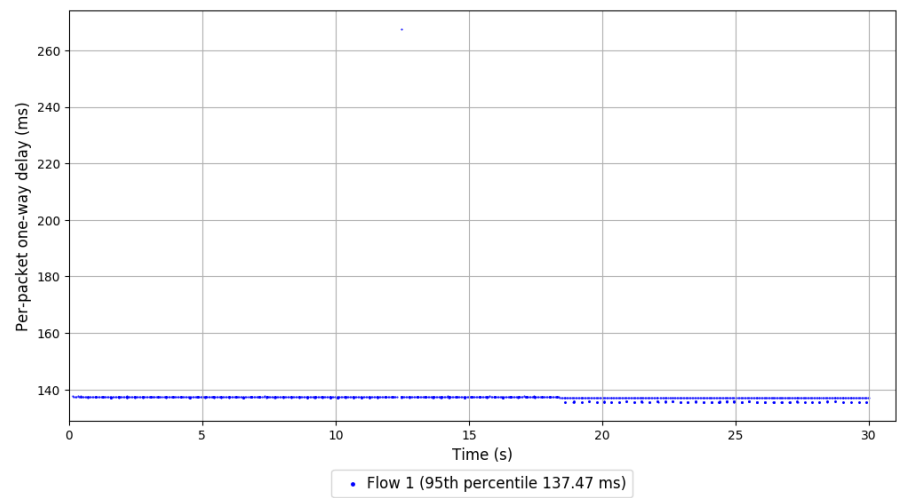
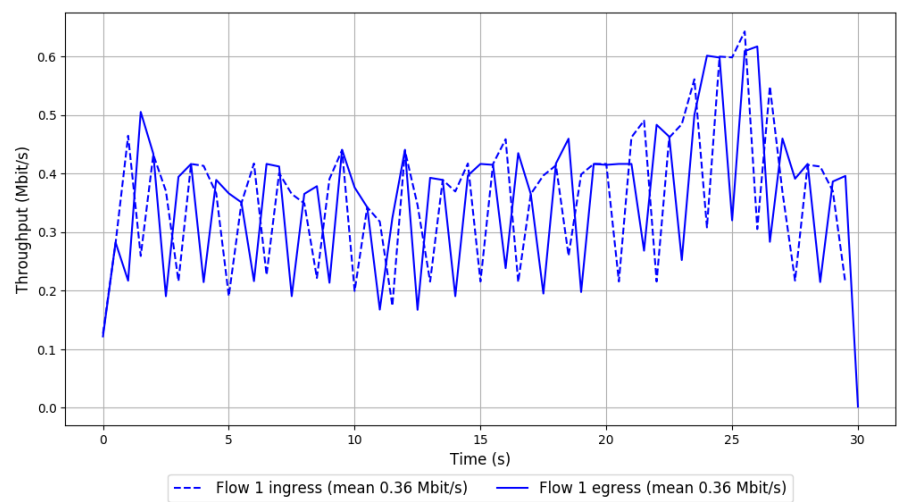
-- Flow 1:

Average throughput: 0.36 Mbit/s

95th percentile per-packet one-way delay: 137.473 ms

Loss rate: 0.00%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-02-16 19:07:38

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

Below is generated by plot.py at 2018-02-16 21:48:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: 137.395 ms

Loss rate: 0.00%

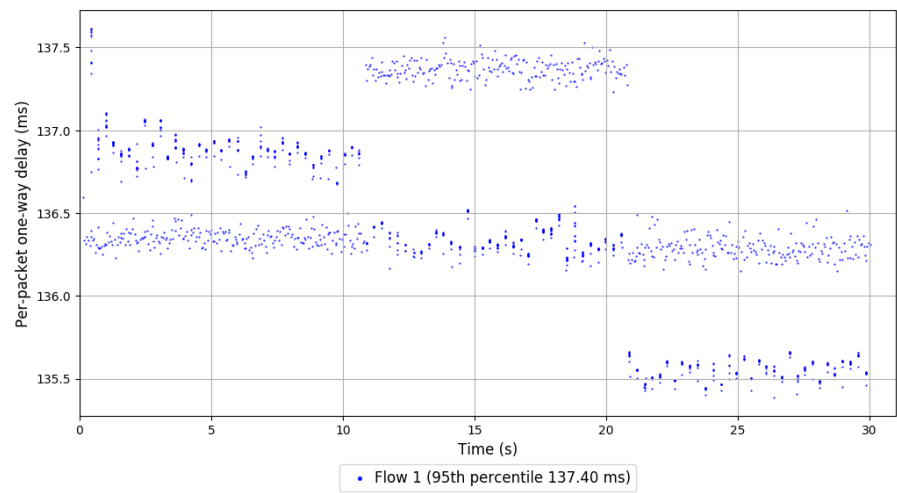
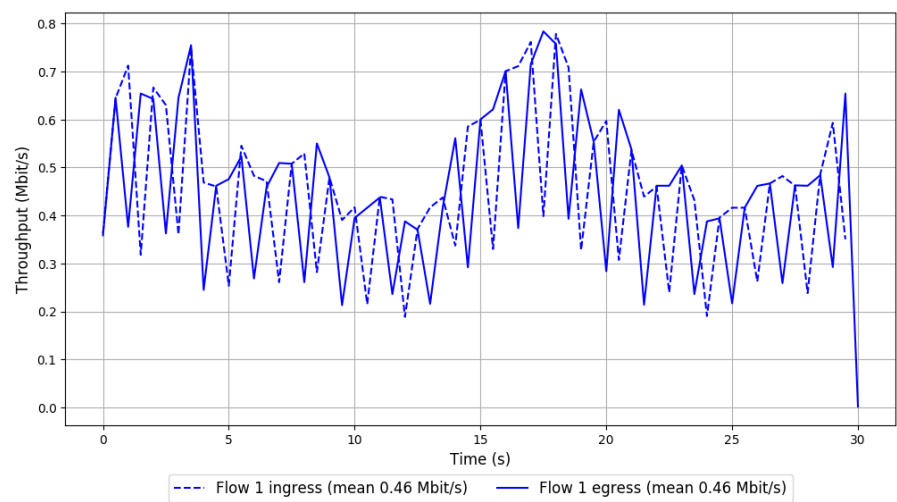
-- Flow 1:

Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: 137.395 ms

Loss rate: 0.00%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-02-16 19:24:12

End at: 2018-02-16 19:24:42

Below is generated by plot.py at 2018-02-16 21:48:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.52 Mbit/s

95th percentile per-packet one-way delay: 136.883 ms

Loss rate: 0.00%

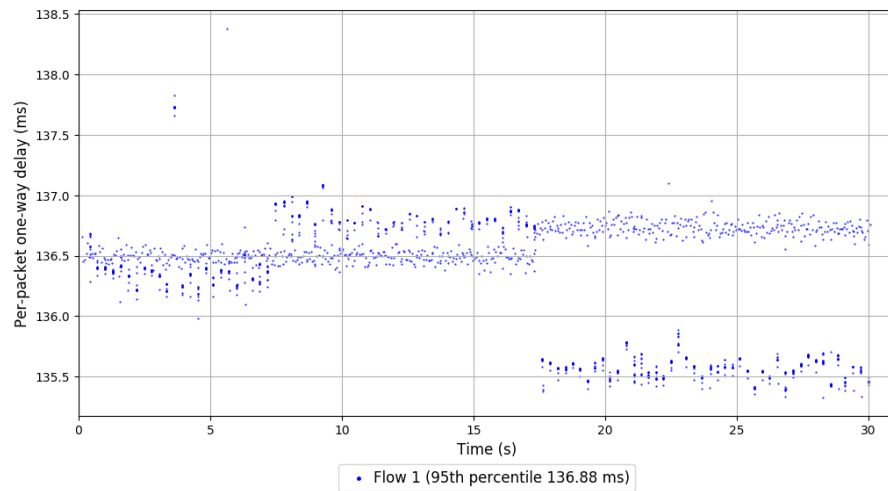
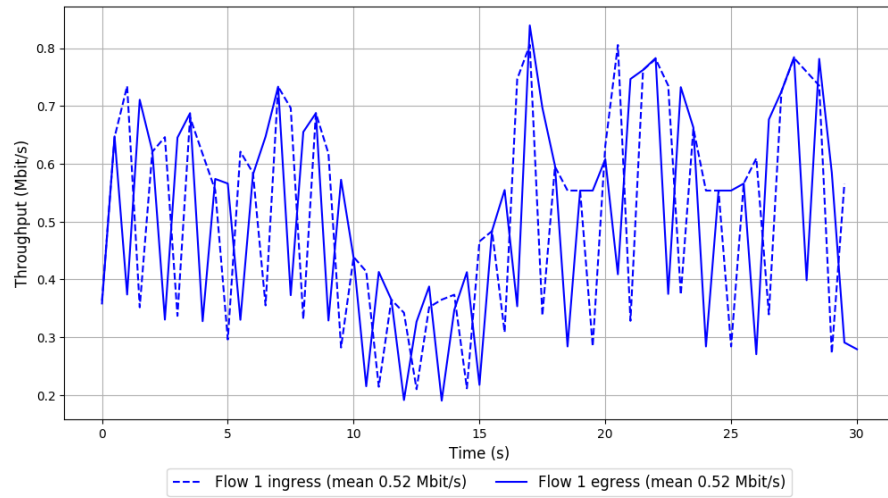
-- Flow 1:

Average throughput: 0.52 Mbit/s

95th percentile per-packet one-way delay: 136.883 ms

Loss rate: 0.00%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-02-16 19:40:36

End at: 2018-02-16 19:41:06

Below is generated by plot.py at 2018-02-16 21:48:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.29 Mbit/s

95th percentile per-packet one-way delay: 136.574 ms

Loss rate: 0.00%

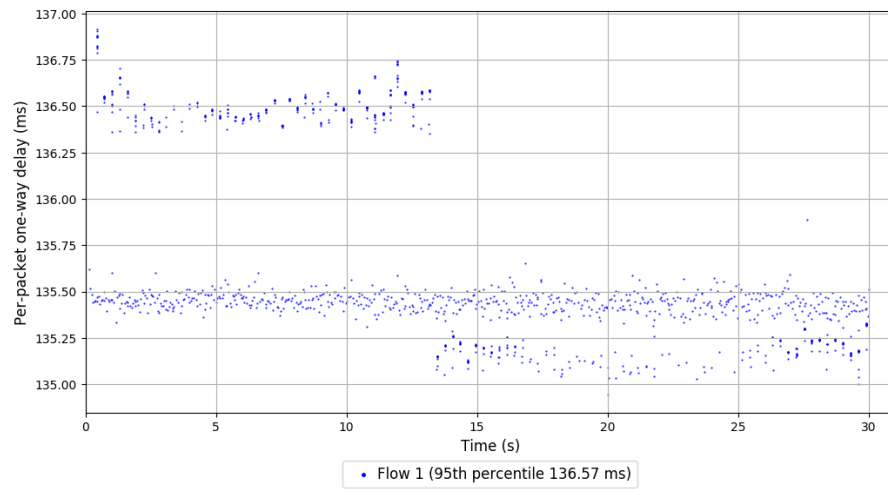
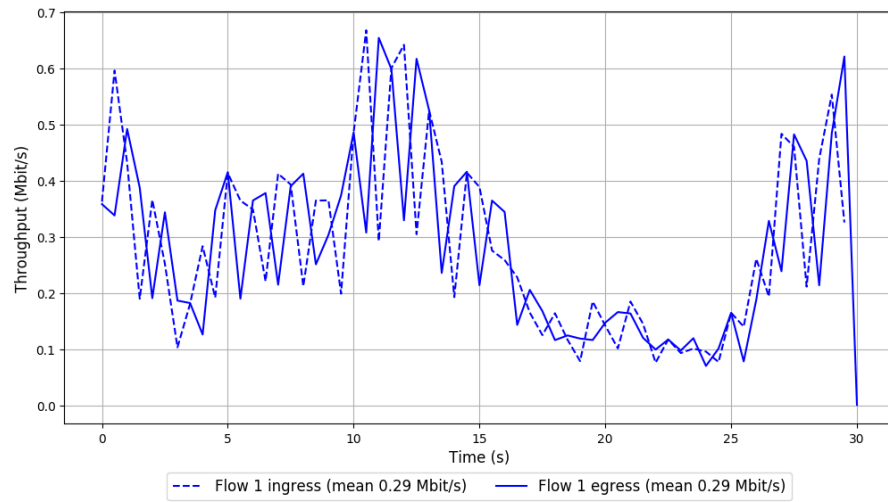
-- Flow 1:

Average throughput: 0.29 Mbit/s

95th percentile per-packet one-way delay: 136.574 ms

Loss rate: 0.00%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-02-16 19:56:37

End at: 2018-02-16 19:57:07

Below is generated by plot.py at 2018-02-16 21:48:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 141.079 ms

Loss rate: 0.00%

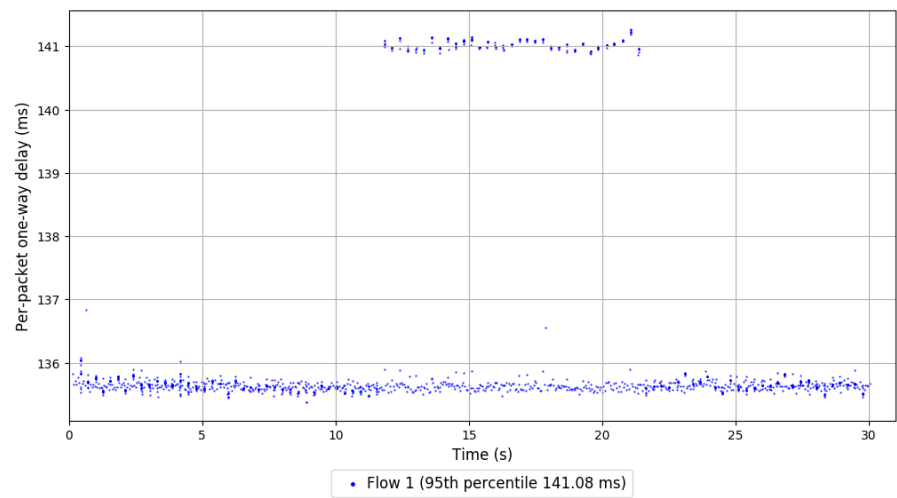
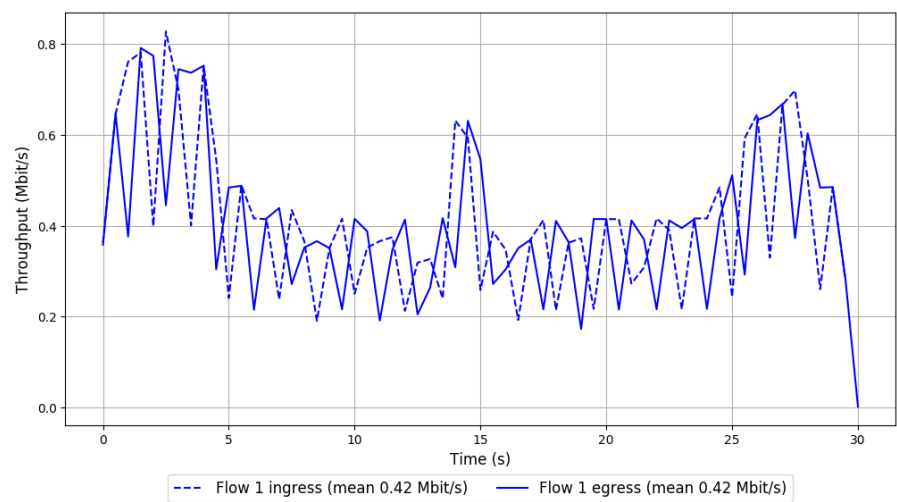
-- Flow 1:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 141.079 ms

Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

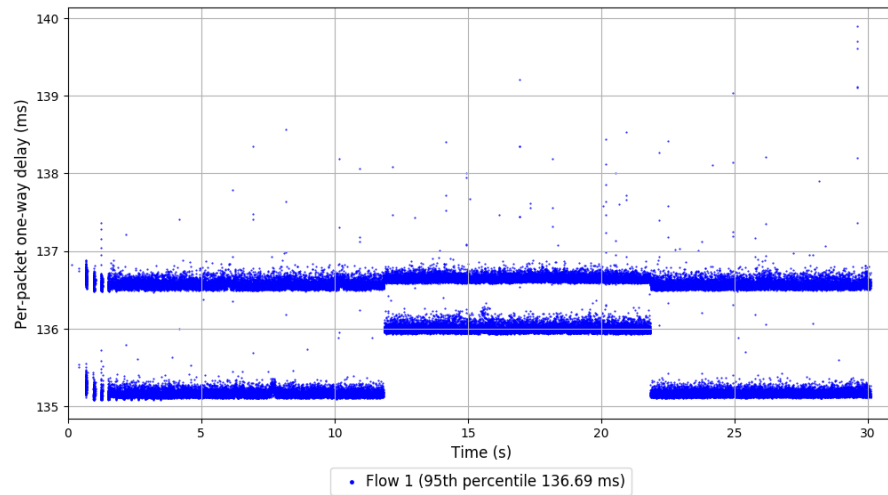
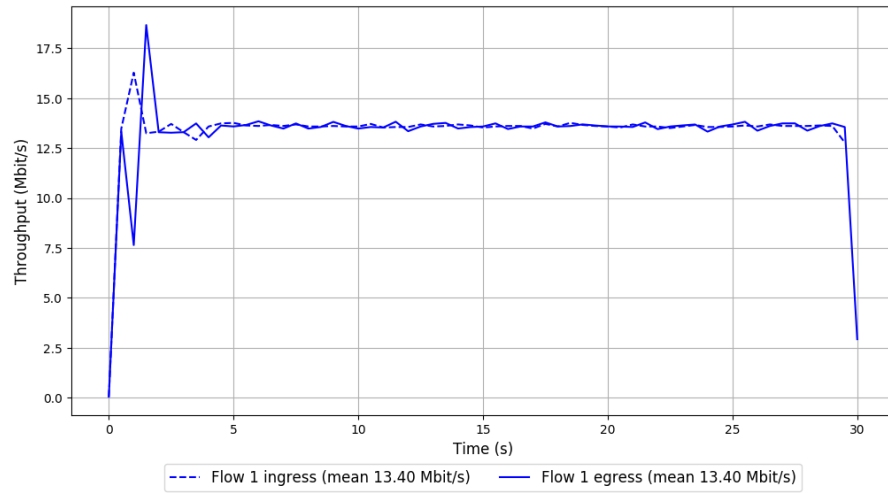


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-02-16 17:28:47
End at: 2018-02-16 17:29:17

# Below is generated by plot.py at 2018-02-16 21:48:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 13.40 Mbit/s
95th percentile per-packet one-way delay: 136.686 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 13.40 Mbit/s
95th percentile per-packet one-way delay: 136.686 ms
Loss rate: 0.00%
```

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

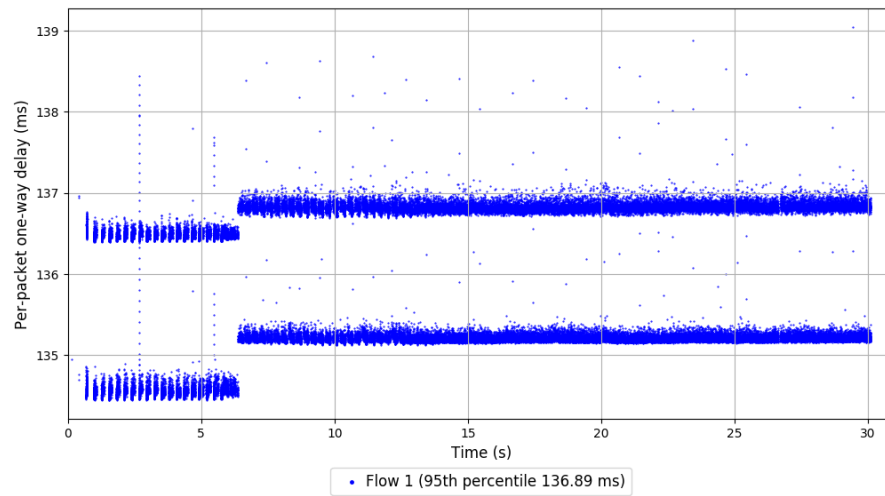
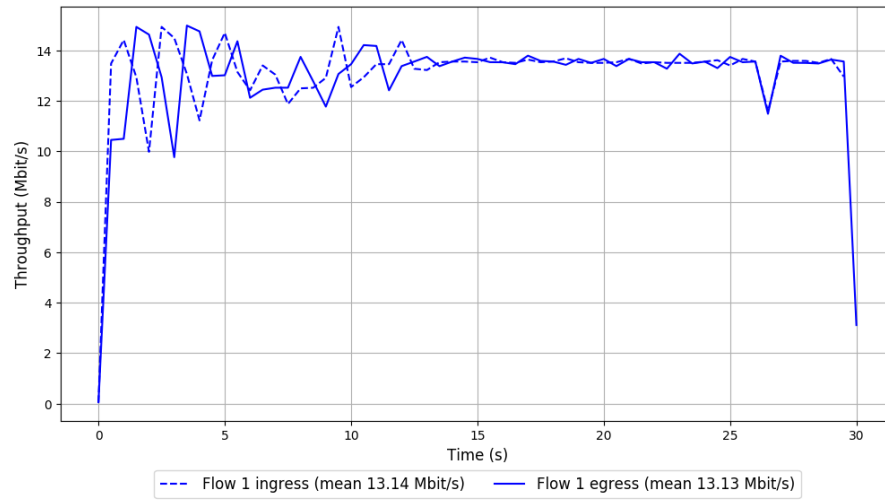


```
Run 2: Statistics of TaoVA-100x

Start at: 2018-02-16 17:44:43
End at: 2018-02-16 17:45:13

# Below is generated by plot.py at 2018-02-16 21:48:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 13.13 Mbit/s
95th percentile per-packet one-way delay: 136.892 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 13.13 Mbit/s
95th percentile per-packet one-way delay: 136.892 ms
Loss rate: 0.00%
```

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

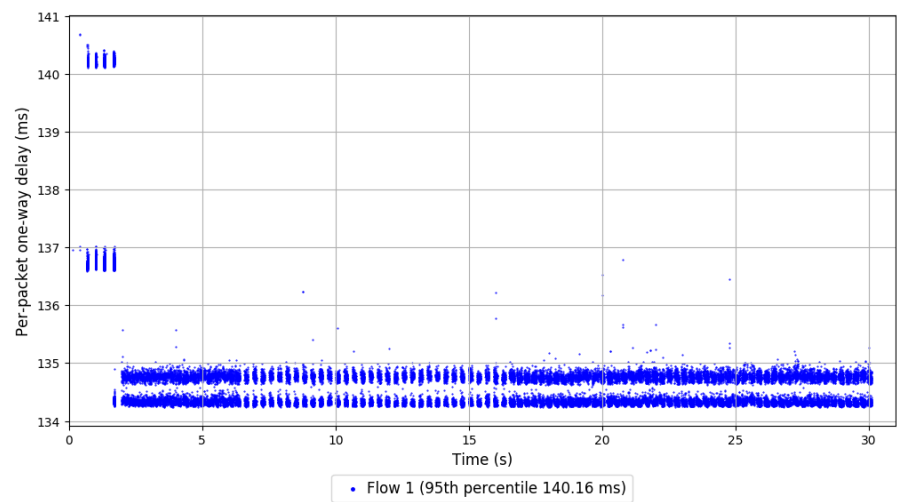
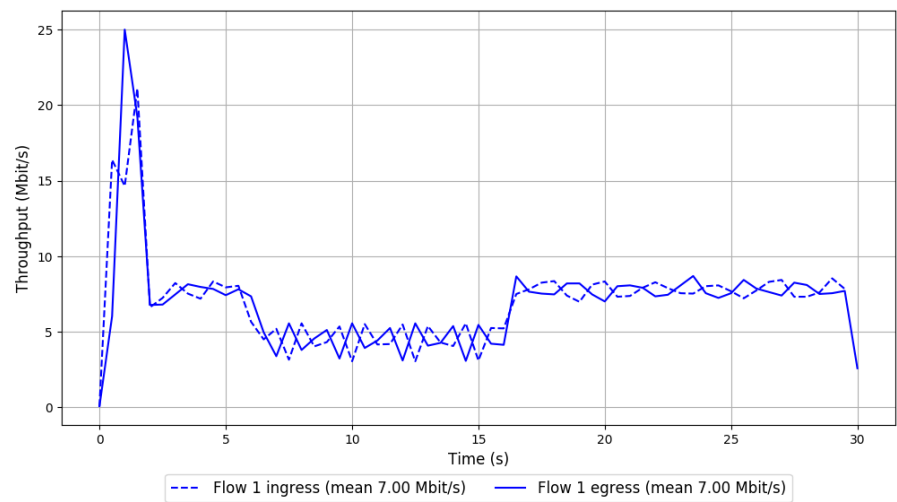


```
Run 3: Statistics of TaoVA-100x

Start at: 2018-02-16 18:01:07
End at: 2018-02-16 18:01:37

# Below is generated by plot.py at 2018-02-16 21:48:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.00 Mbit/s
95th percentile per-packet one-way delay: 140.165 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.00 Mbit/s
95th percentile per-packet one-way delay: 140.165 ms
Loss rate: 0.00%
```

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



Run 4: Statistics of TaoVA-100x

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

End at: 2018-02-16 18:17:19

Below is generated by plot.py at 2018-02-16 21:48:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 8.37 Mbit/s

95th percentile per-packet one-way delay: 140.578 ms

Loss rate: 0.00%

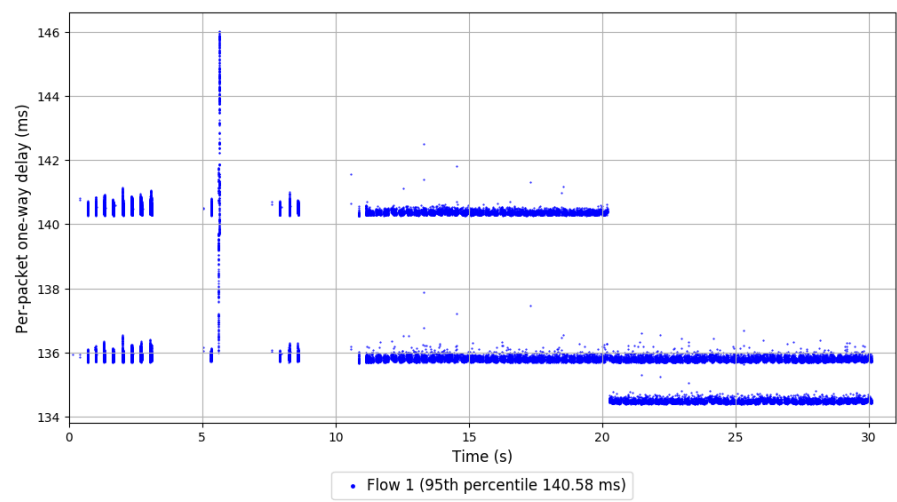
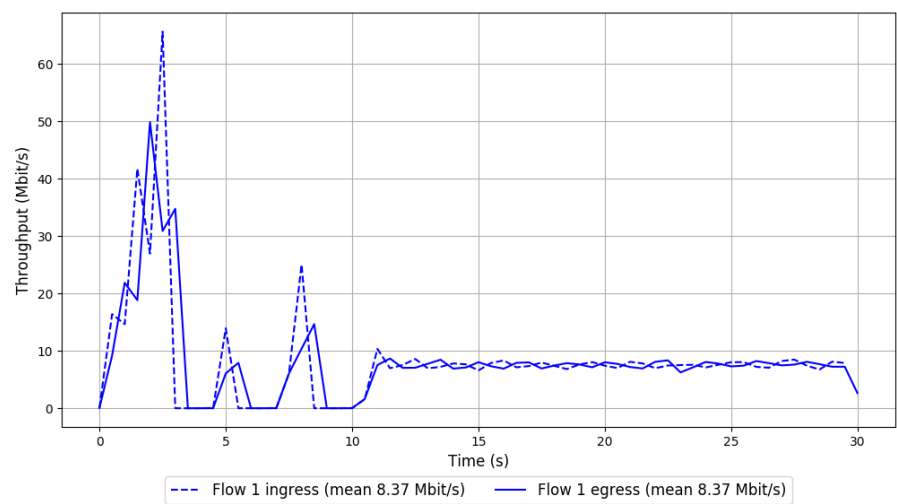
-- Flow 1:

Average throughput: 8.37 Mbit/s

95th percentile per-packet one-way delay: 140.578 ms

Loss rate: 0.00%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-02-16 18:32:52

End at: 2018-02-16 18:33:22

Below is generated by plot.py at 2018-02-16 21:48:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 122.39 Mbit/s

95th percentile per-packet one-way delay: 137.023 ms

Loss rate: 0.00%

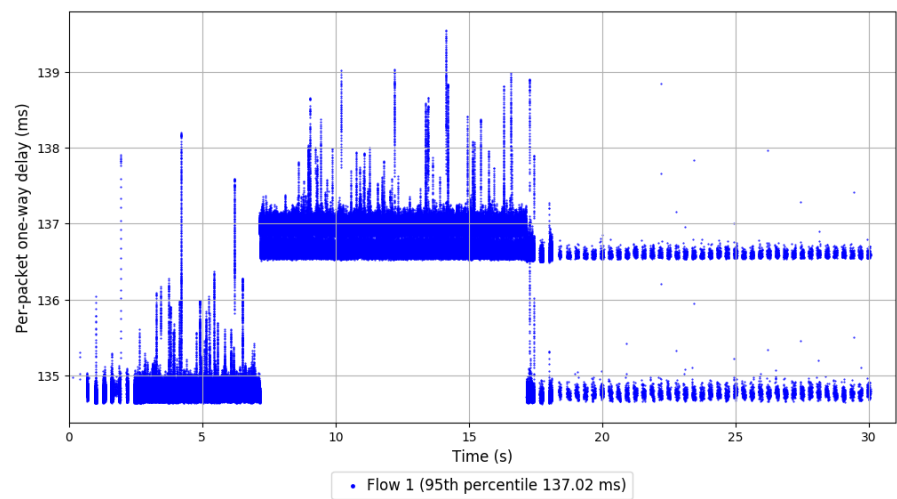
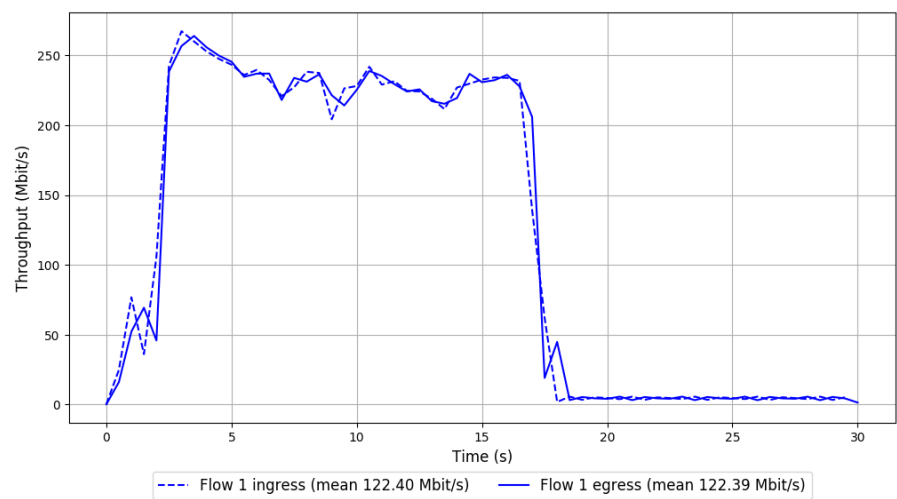
-- Flow 1:

Average throughput: 122.39 Mbit/s

95th percentile per-packet one-way delay: 137.023 ms

Loss rate: 0.00%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-02-16 18:48:55

End at: 2018-02-16 18:49:25

Below is generated by plot.py at 2018-02-16 21:48:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.26 Mbit/s

95th percentile per-packet one-way delay: 136.766 ms

Loss rate: 0.00%

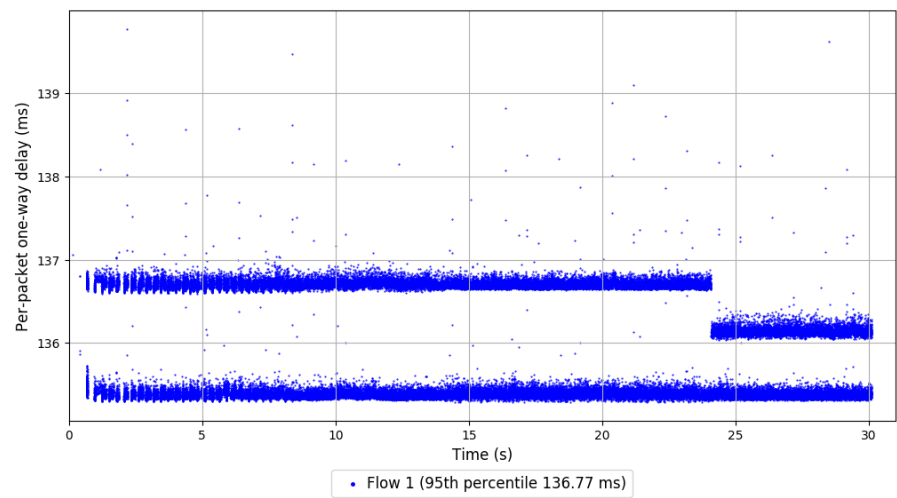
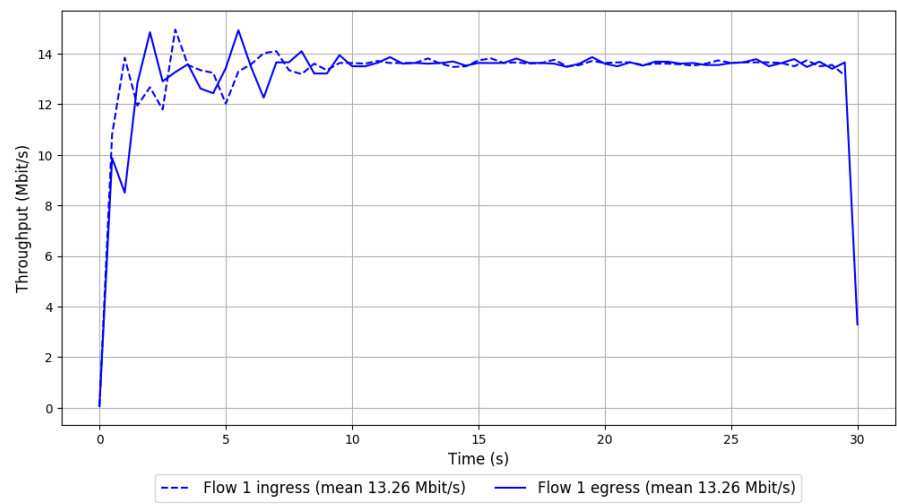
-- Flow 1:

Average throughput: 13.26 Mbit/s

95th percentile per-packet one-way delay: 136.766 ms

Loss rate: 0.00%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-02-16 19:05:11

End at: 2018-02-16 19:05:41

Below is generated by plot.py at 2018-02-16 21:48:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 214.28 Mbit/s

95th percentile per-packet one-way delay: 136.692 ms

Loss rate: 0.00%

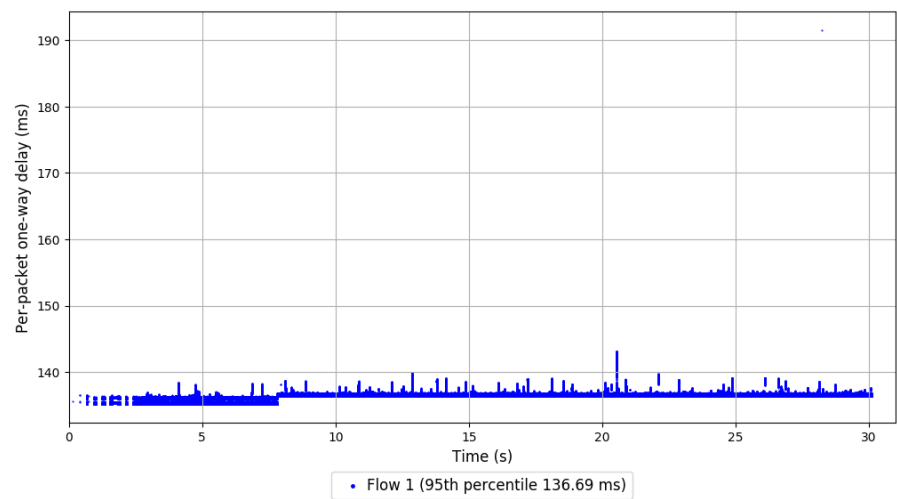
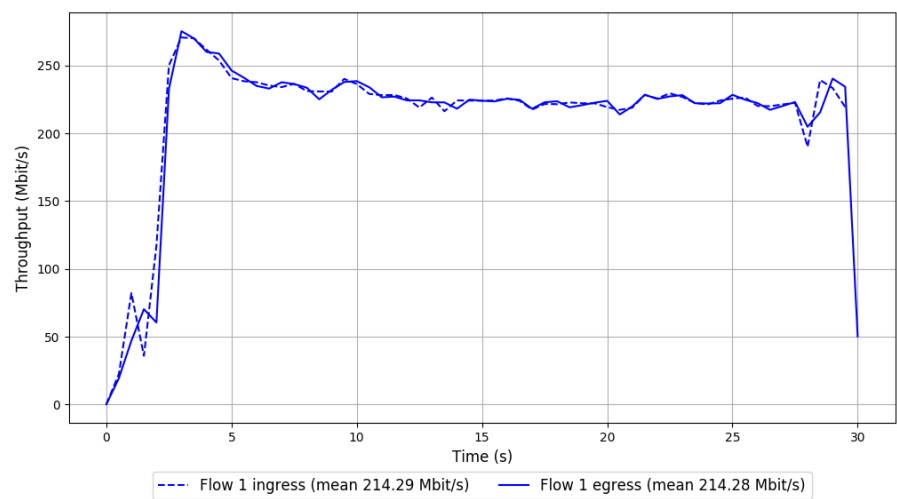
-- Flow 1:

Average throughput: 214.28 Mbit/s

95th percentile per-packet one-way delay: 136.692 ms

Loss rate: 0.00%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-02-16 19:21:47

End at: 2018-02-16 19:22:17

Below is generated by plot.py at 2018-02-16 21:48:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 221.30 Mbit/s

95th percentile per-packet one-way delay: 137.390 ms

Loss rate: 0.00%

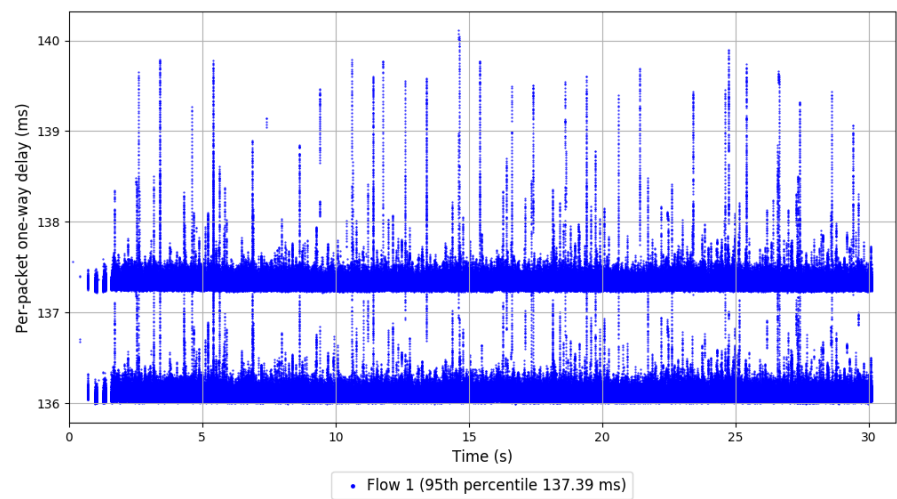
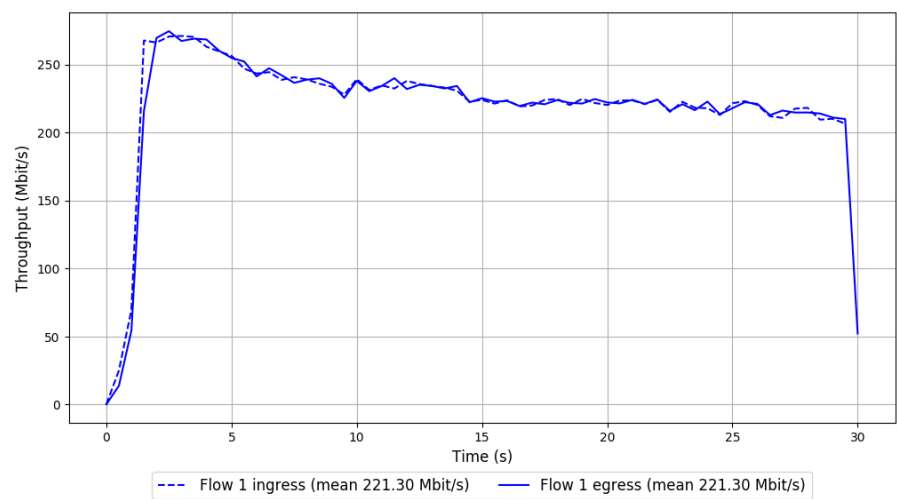
-- Flow 1:

Average throughput: 221.30 Mbit/s

95th percentile per-packet one-way delay: 137.390 ms

Loss rate: 0.00%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-02-16 19:38:12

End at: 2018-02-16 19:38:42

Below is generated by plot.py at 2018-02-16 21:48:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 195.39 Mbit/s

95th percentile per-packet one-way delay: 136.324 ms

Loss rate: 0.00%

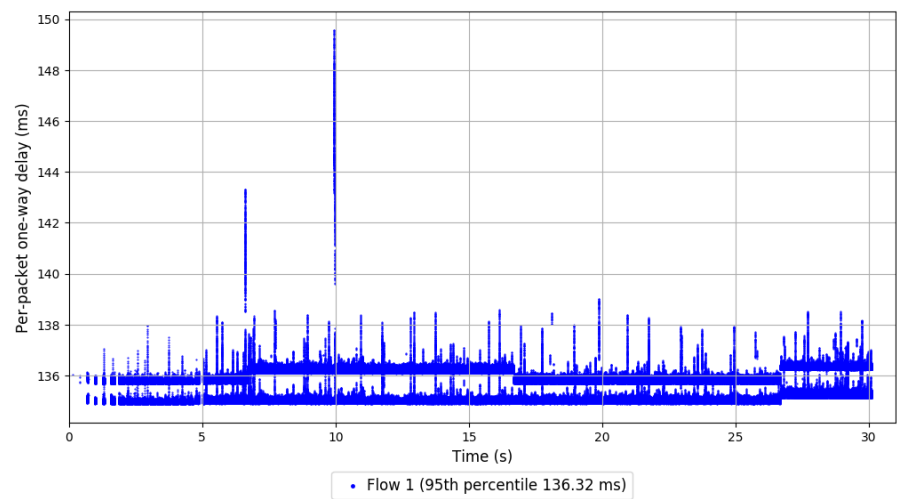
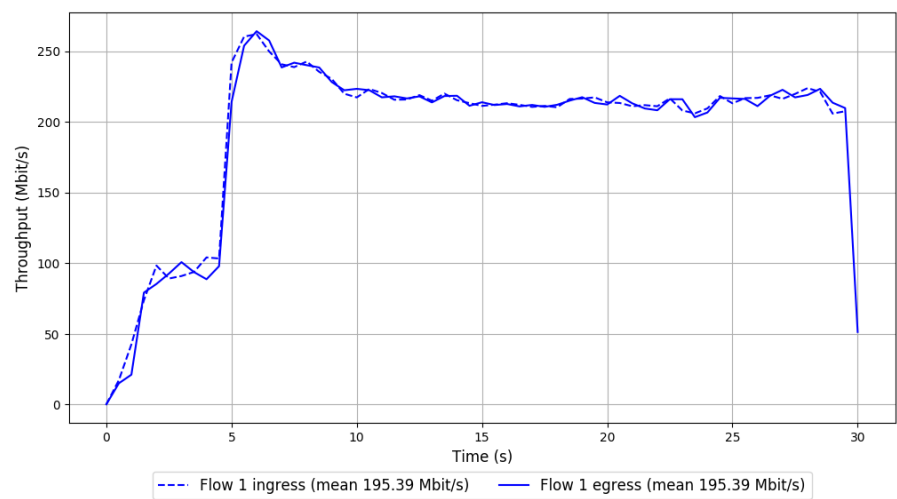
-- Flow 1:

Average throughput: 195.39 Mbit/s

95th percentile per-packet one-way delay: 136.324 ms

Loss rate: 0.00%

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

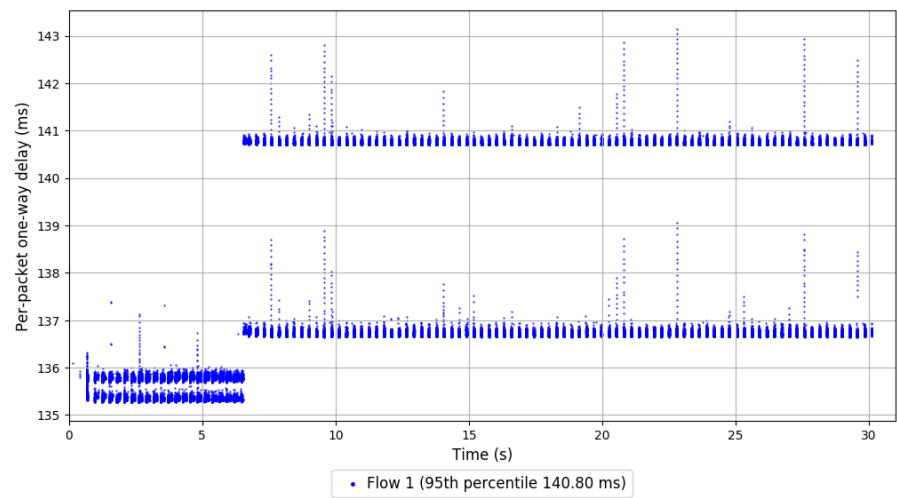
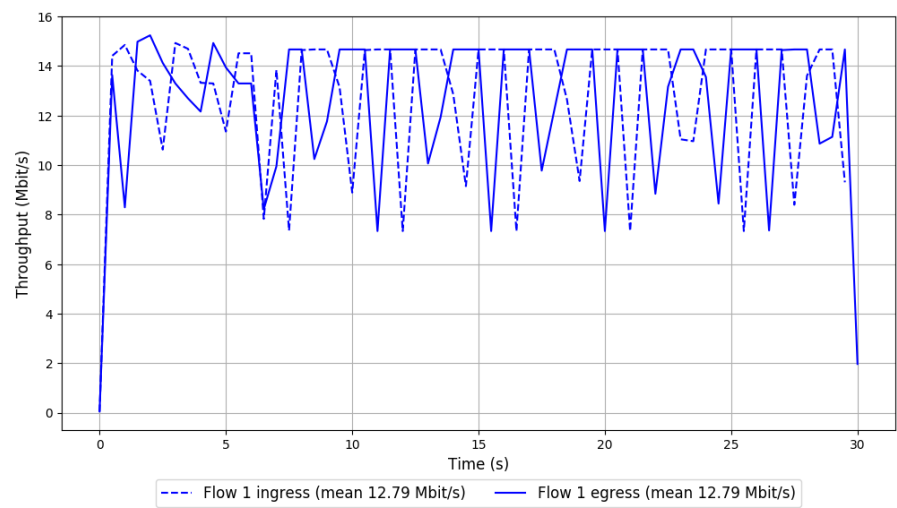


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-02-16 19:54:32
End at: 2018-02-16 19:55:02

# Below is generated by plot.py at 2018-02-16 21:48:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.79 Mbit/s
95th percentile per-packet one-way delay: 140.797 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 12.79 Mbit/s
95th percentile per-packet one-way delay: 140.797 ms
Loss rate: 0.00%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2018-02-16 17:34:31

End at: 2018-02-16 17:35:01

Below is generated by plot.py at 2018-02-16 21:48:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 45.70 Mbit/s

95th percentile per-packet one-way delay: 138.654 ms

Loss rate: 0.00%

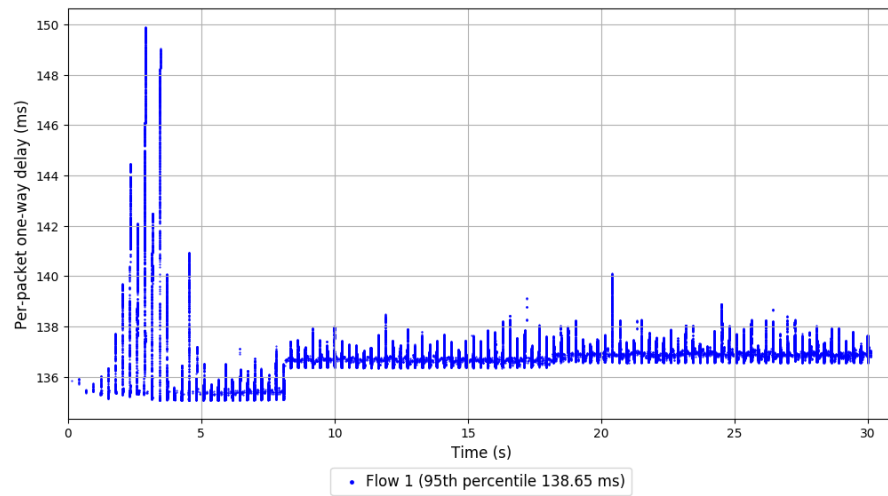
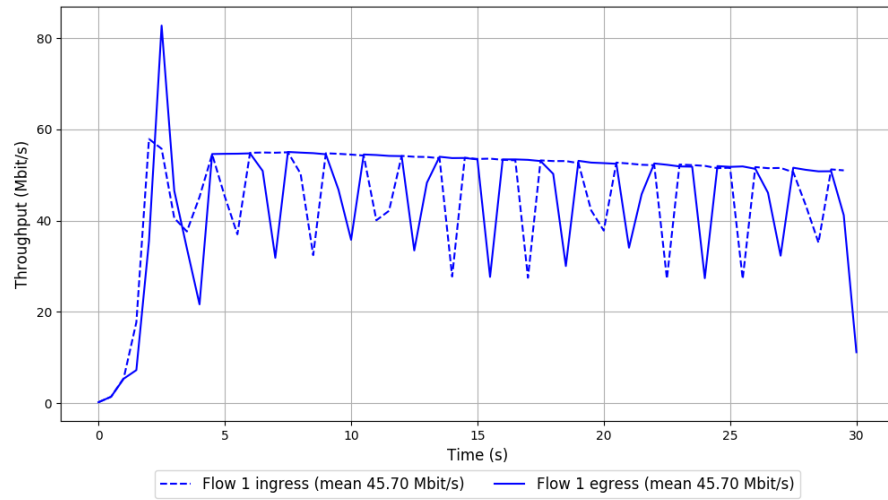
-- Flow 1:

Average throughput: 45.70 Mbit/s

95th percentile per-packet one-way delay: 138.654 ms

Loss rate: 0.00%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-02-16 17:50:29

End at: 2018-02-16 17:50:59

Below is generated by plot.py at 2018-02-16 21:48:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 33.49 Mbit/s

95th percentile per-packet one-way delay: 140.879 ms

Loss rate: 0.00%

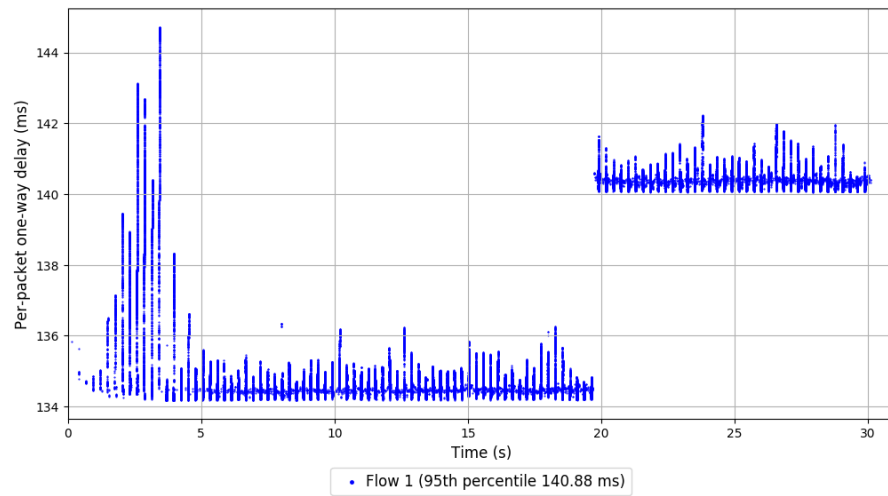
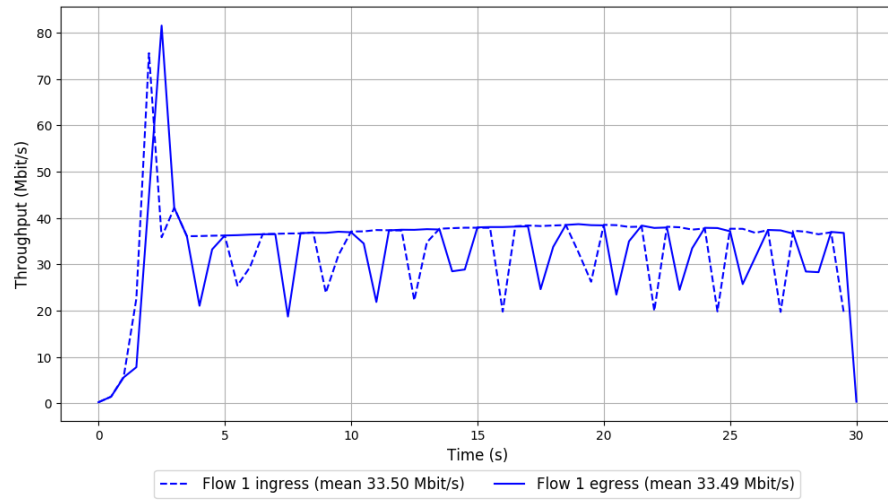
-- Flow 1:

Average throughput: 33.49 Mbit/s

95th percentile per-packet one-way delay: 140.879 ms

Loss rate: 0.00%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-02-16 18:06:38

End at: 2018-02-16 18:07:09

Below is generated by plot.py at 2018-02-16 21:48:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 40.30 Mbit/s

95th percentile per-packet one-way delay: 137.315 ms

Loss rate: 0.00%

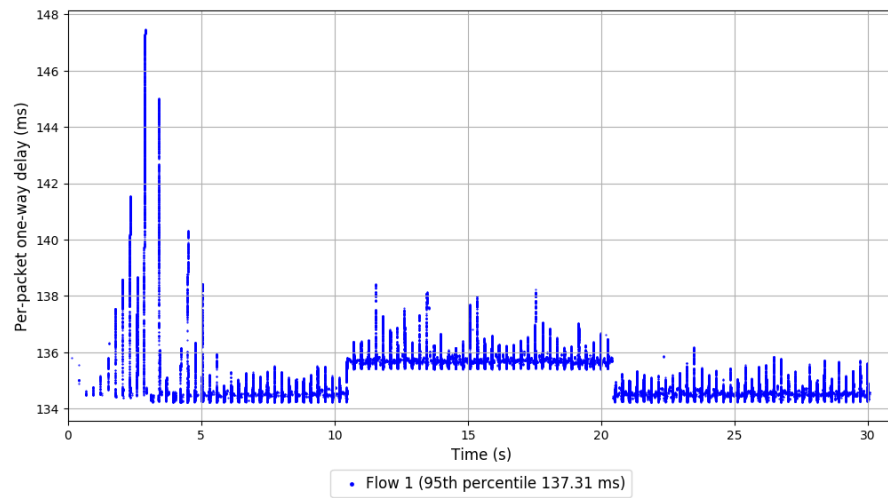
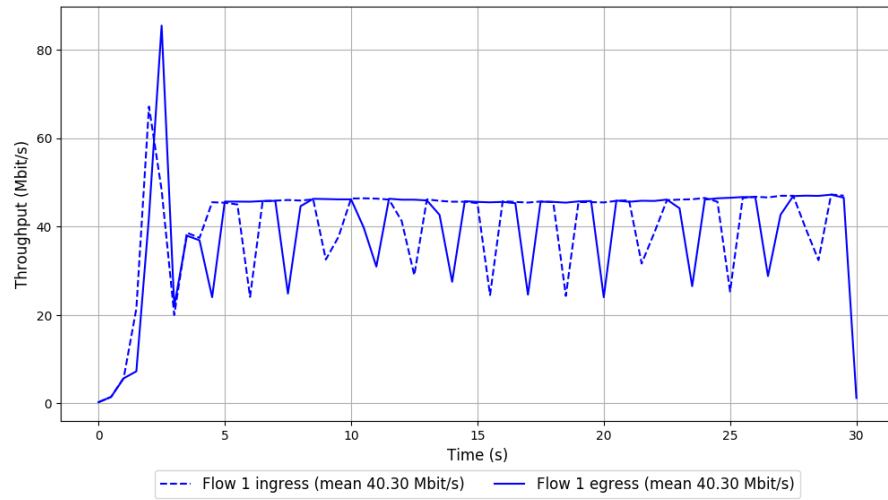
-- Flow 1:

Average throughput: 40.30 Mbit/s

95th percentile per-packet one-way delay: 137.315 ms

Loss rate: 0.00%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-02-16 18:22:38

End at: 2018-02-16 18:23:08

Below is generated by plot.py at 2018-02-16 21:48:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 27.20 Mbit/s

95th percentile per-packet one-way delay: 137.593 ms

Loss rate: 0.00%

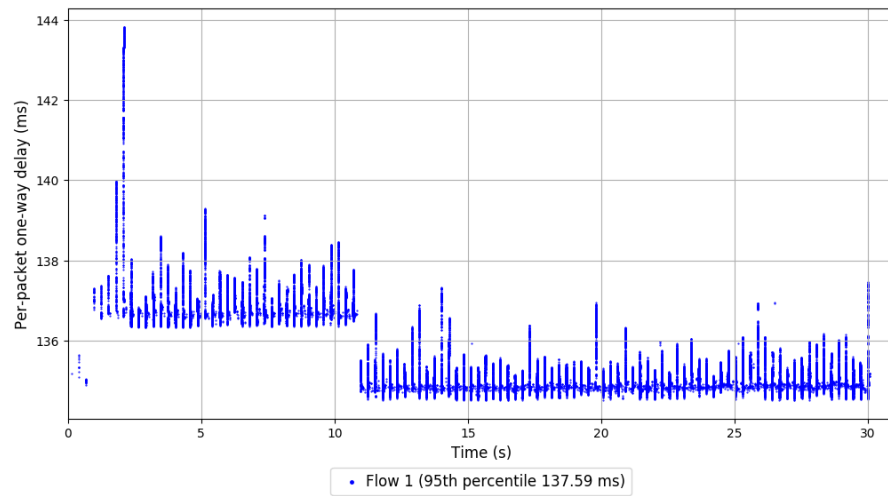
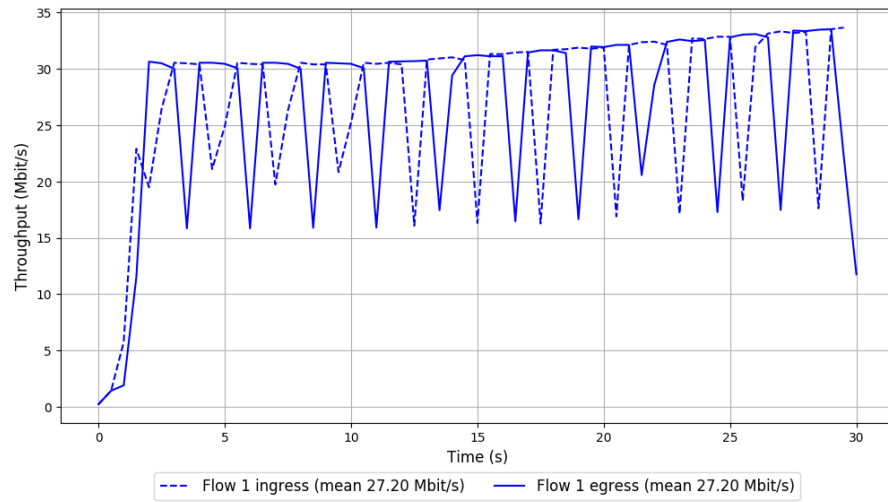
-- Flow 1:

Average throughput: 27.20 Mbit/s

95th percentile per-packet one-way delay: 137.593 ms

Loss rate: 0.00%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-02-16 18:38:50

End at: 2018-02-16 18:39:20

Below is generated by plot.py at 2018-02-16 21:48:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 25.83 Mbit/s

95th percentile per-packet one-way delay: 137.885 ms

Loss rate: 0.00%

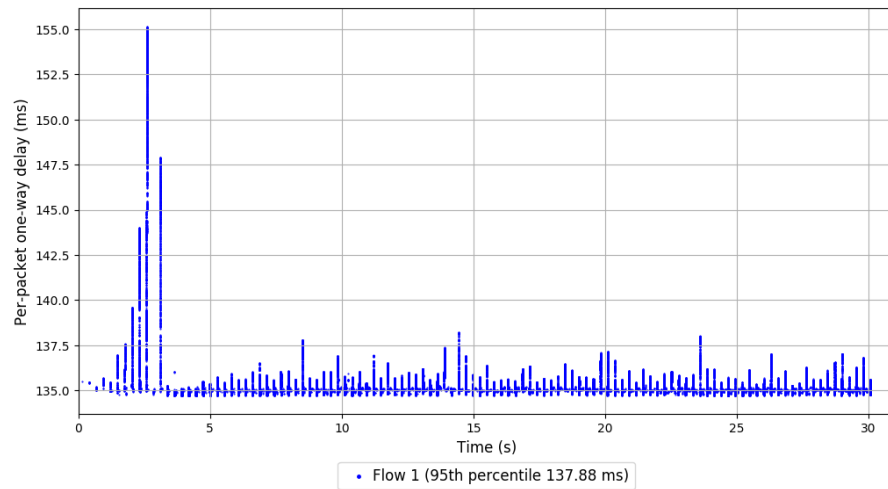
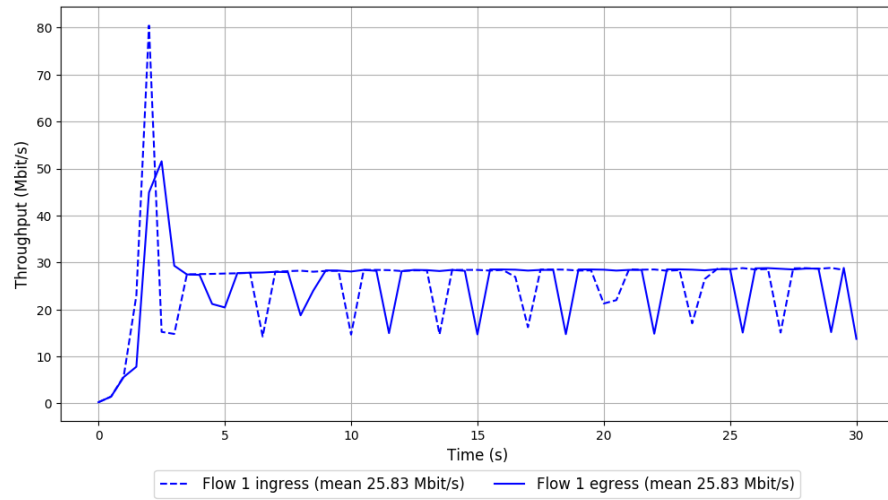
-- Flow 1:

Average throughput: 25.83 Mbit/s

95th percentile per-packet one-way delay: 137.885 ms

Loss rate: 0.00%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-02-16 18:54:48

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

Below is generated by plot.py at 2018-02-16 21:48:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.48 Mbit/s

95th percentile per-packet one-way delay: 138.139 ms

Loss rate: 0.00%

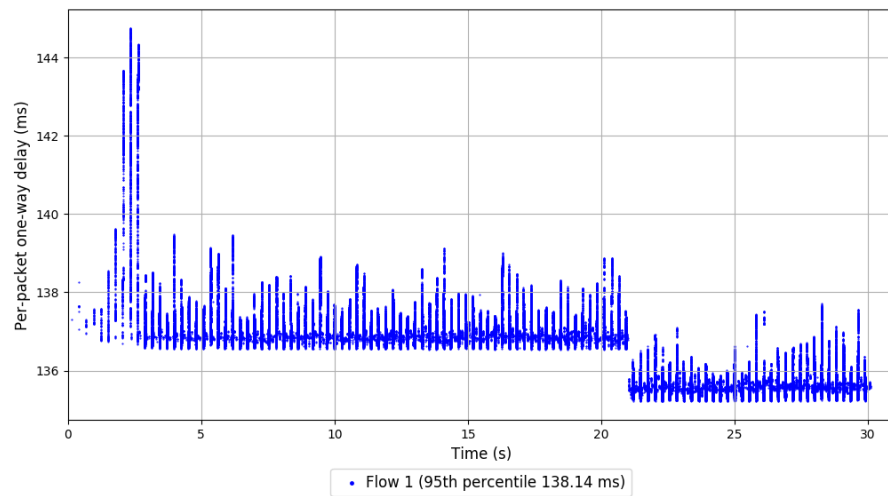
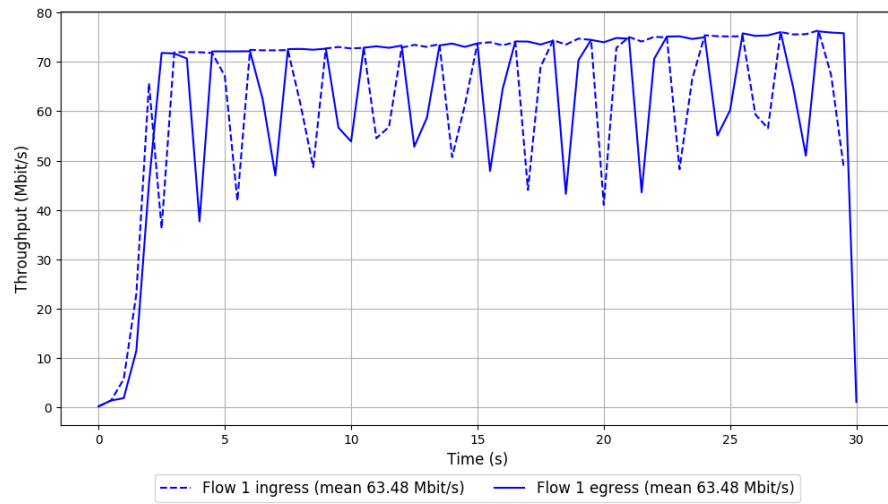
-- Flow 1:

Average throughput: 63.48 Mbit/s

95th percentile per-packet one-way delay: 138.139 ms

Loss rate: 0.00%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-02-16 19:11:21

End at: 2018-02-16 19:11:51

Below is generated by plot.py at 2018-02-16 21:48:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 47.84 Mbit/s

95th percentile per-packet one-way delay: 140.091 ms

Loss rate: 0.00%

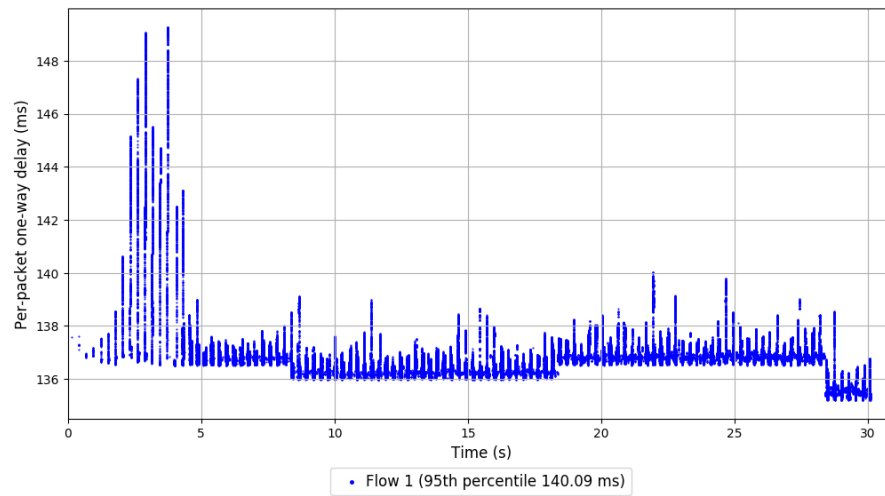
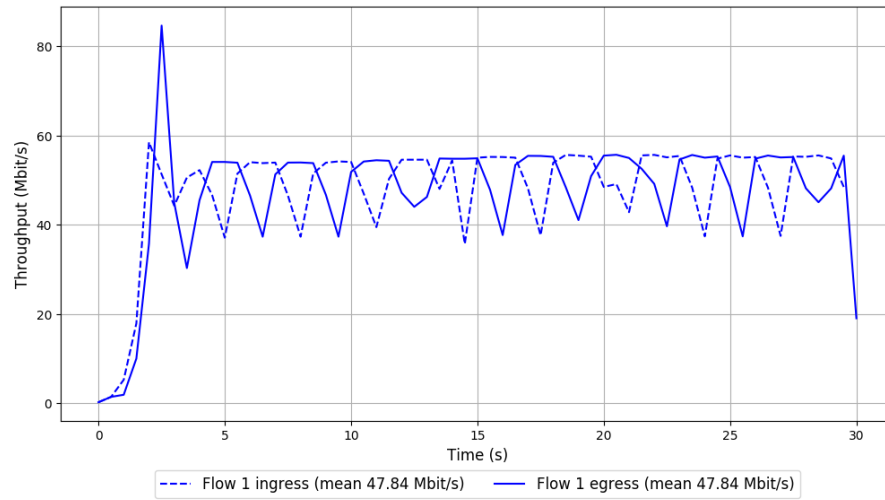
-- Flow 1:

Average throughput: 47.84 Mbit/s

95th percentile per-packet one-way delay: 140.091 ms

Loss rate: 0.00%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-02-16 19:27:53

End at: 2018-02-16 19:28:23

Below is generated by plot.py at 2018-02-16 21:48:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 38.94 Mbit/s

95th percentile per-packet one-way delay: 137.449 ms

Loss rate: 0.00%

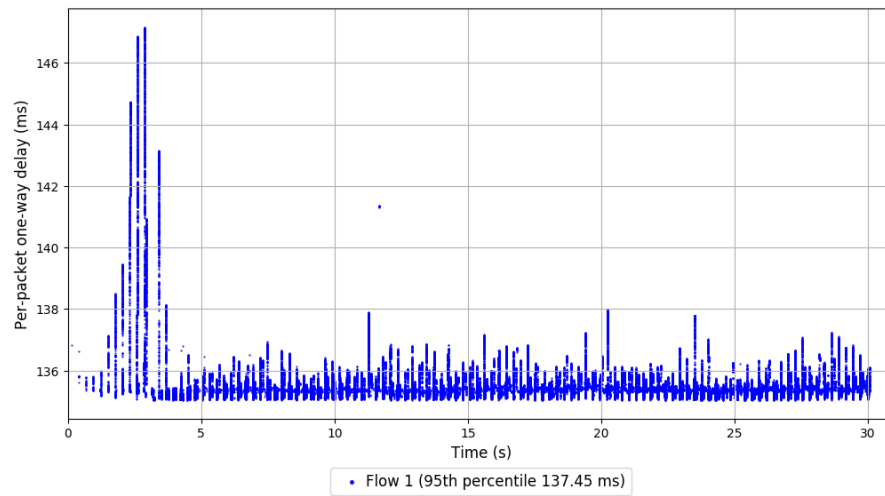
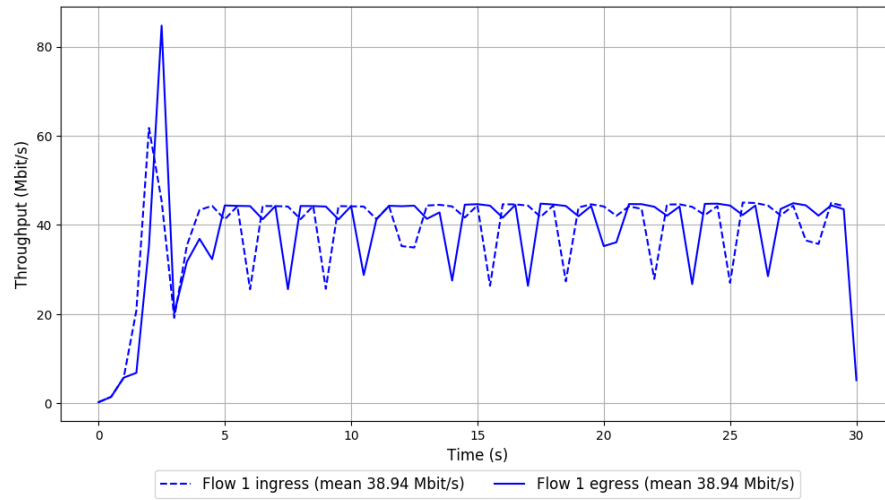
-- Flow 1:

Average throughput: 38.94 Mbit/s

95th percentile per-packet one-way delay: 137.449 ms

Loss rate: 0.00%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-02-16 19:44:17

End at: 2018-02-16 19:44:47

Below is generated by plot.py at 2018-02-16 21:48:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 36.77 Mbit/s

95th percentile per-packet one-way delay: 144.694 ms

Loss rate: 0.00%

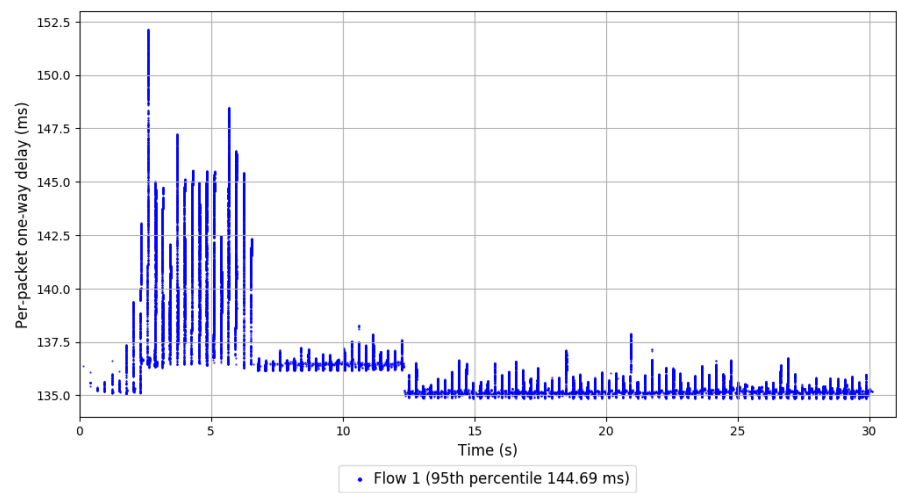
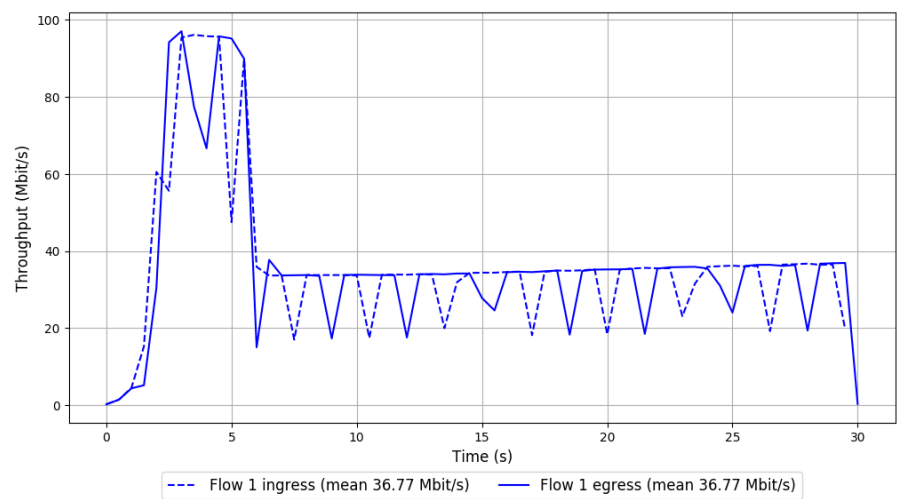
-- Flow 1:

Average throughput: 36.77 Mbit/s

95th percentile per-packet one-way delay: 144.694 ms

Loss rate: 0.00%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-02-16 20:00:25

End at: 2018-02-16 20:00:55

Below is generated by plot.py at 2018-02-16 21:48:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 41.85 Mbit/s

95th percentile per-packet one-way delay: 142.035 ms

Loss rate: 0.00%

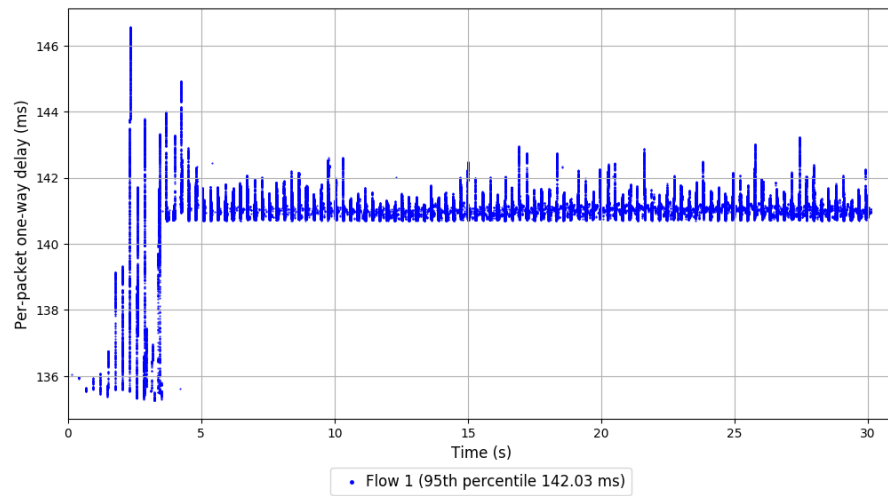
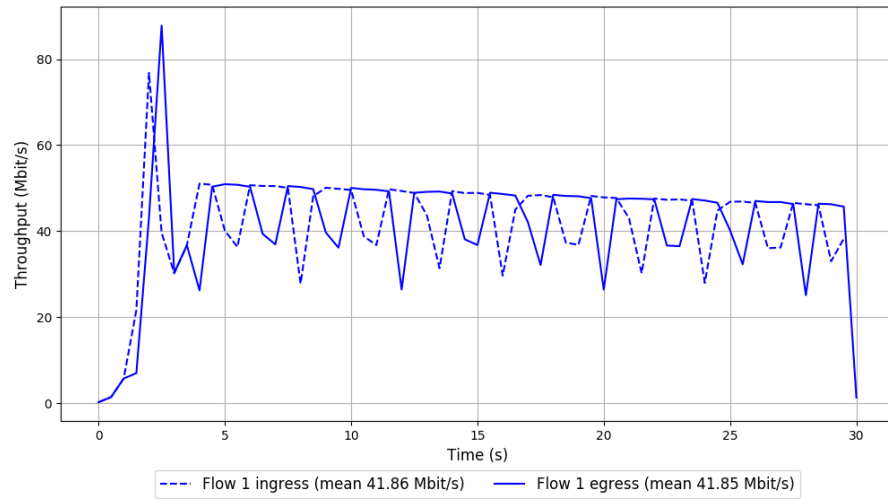
-- Flow 1:

Average throughput: 41.85 Mbit/s

95th percentile per-packet one-way delay: 142.035 ms

Loss rate: 0.00%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-02-16 17:20:38

End at: 2018-02-16 17:21:08

Below is generated by plot.py at 2018-02-16 21:48:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.59 Mbit/s

95th percentile per-packet one-way delay: 158.685 ms

Loss rate: 0.00%

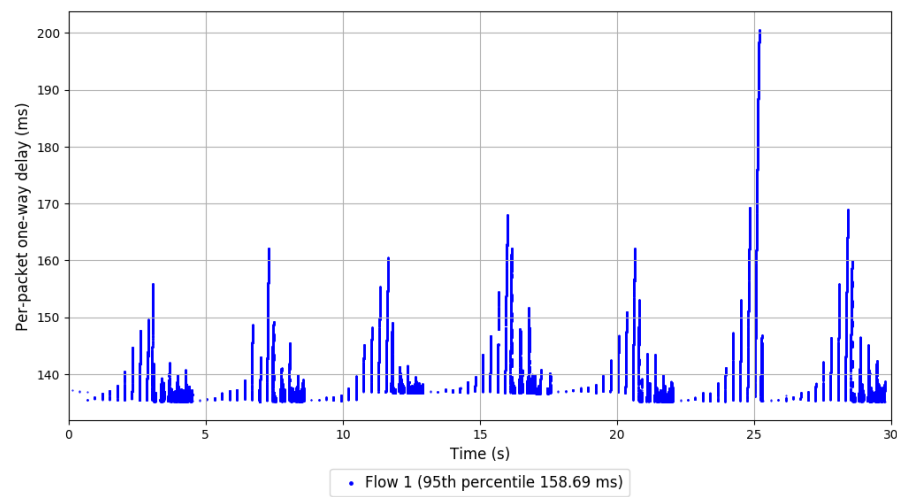
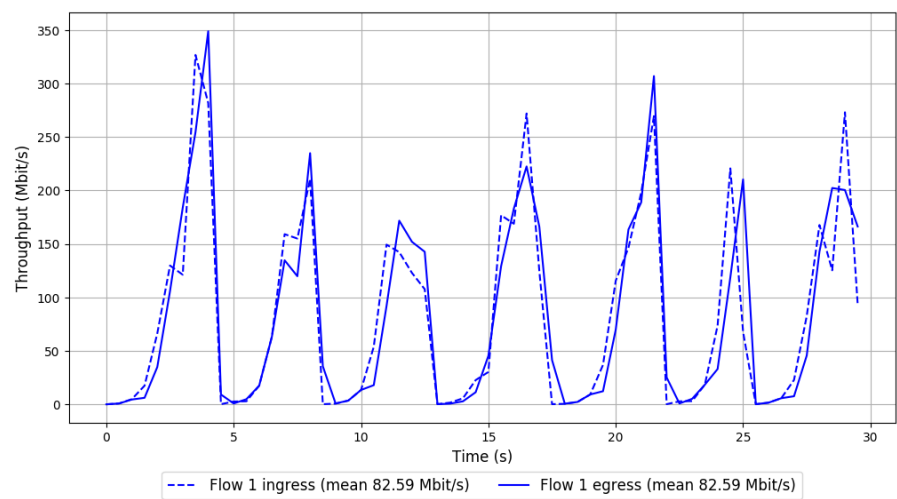
-- Flow 1:

Average throughput: 82.59 Mbit/s

95th percentile per-packet one-way delay: 158.685 ms

Loss rate: 0.00%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-02-16 17:36:26

End at: 2018-02-16 17:36:56

Below is generated by plot.py at 2018-02-16 21:48:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 70.89 Mbit/s

95th percentile per-packet one-way delay: 157.263 ms

Loss rate: 0.00%

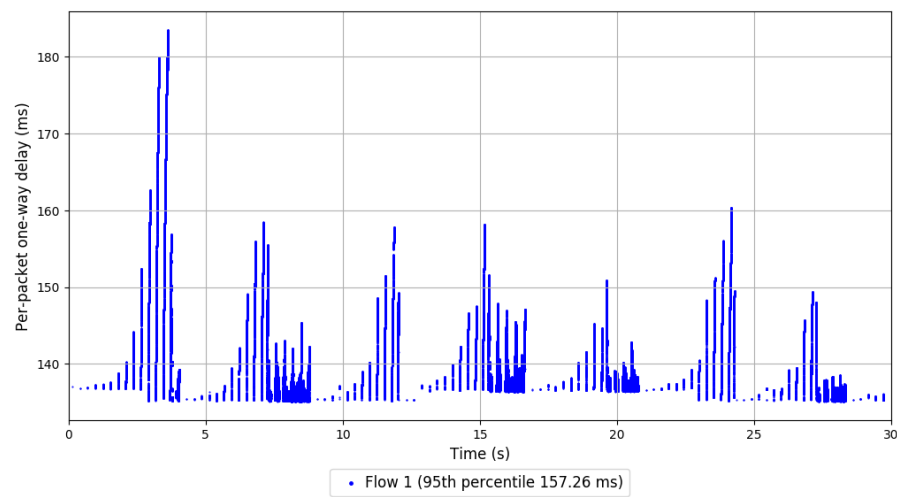
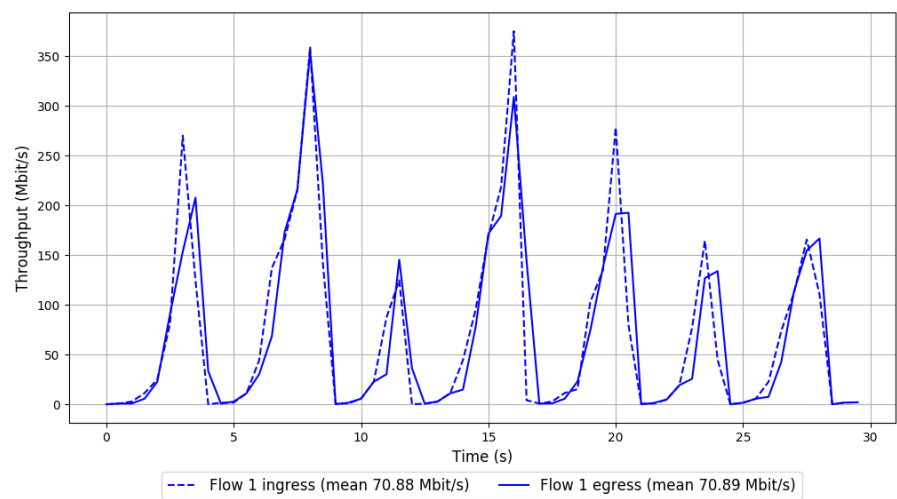
-- Flow 1:

Average throughput: 70.89 Mbit/s

95th percentile per-packet one-way delay: 157.263 ms

Loss rate: 0.00%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-02-16 17:52:26

End at: 2018-02-16 17:52:56

Below is generated by plot.py at 2018-02-16 21:48:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 195.41 Mbit/s

95th percentile per-packet one-way delay: 154.095 ms

Loss rate: 0.00%

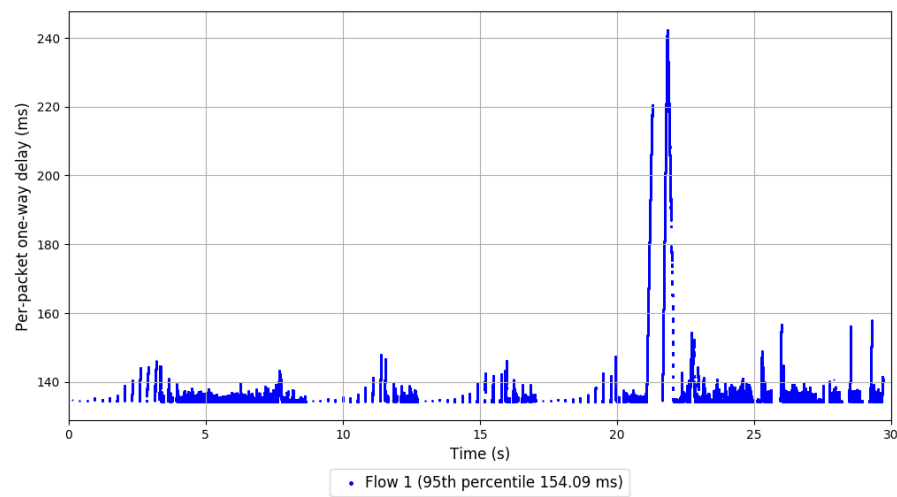
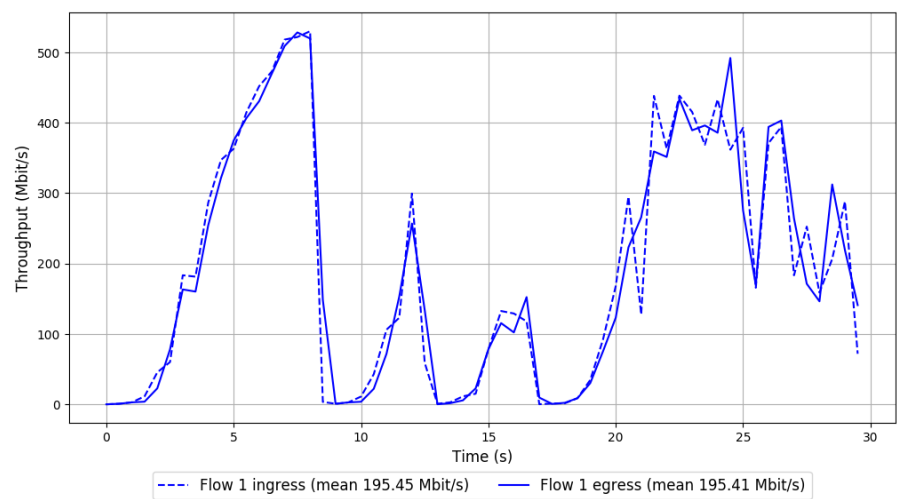
-- Flow 1:

Average throughput: 195.41 Mbit/s

95th percentile per-packet one-way delay: 154.095 ms

Loss rate: 0.00%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-02-16 18:08:35

End at: 2018-02-16 18:09:05

Below is generated by plot.py at 2018-02-16 21:48:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.16 Mbit/s

95th percentile per-packet one-way delay: 180.484 ms

Loss rate: 0.13%

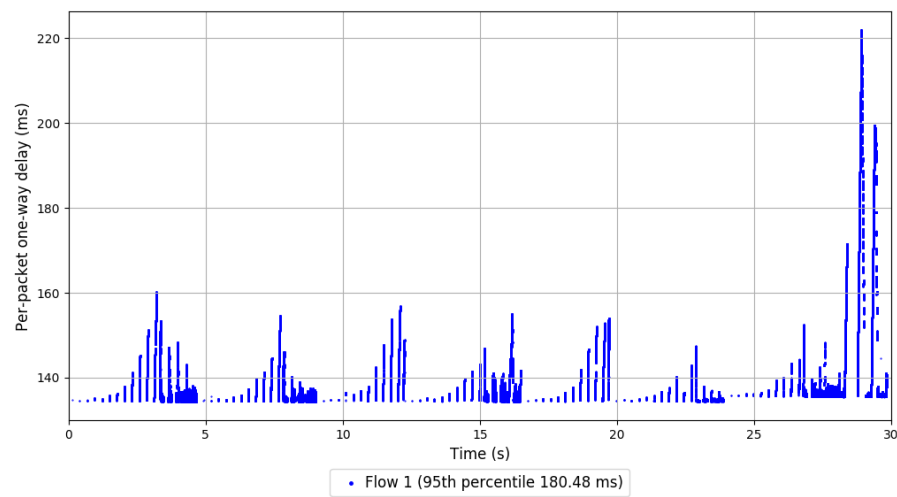
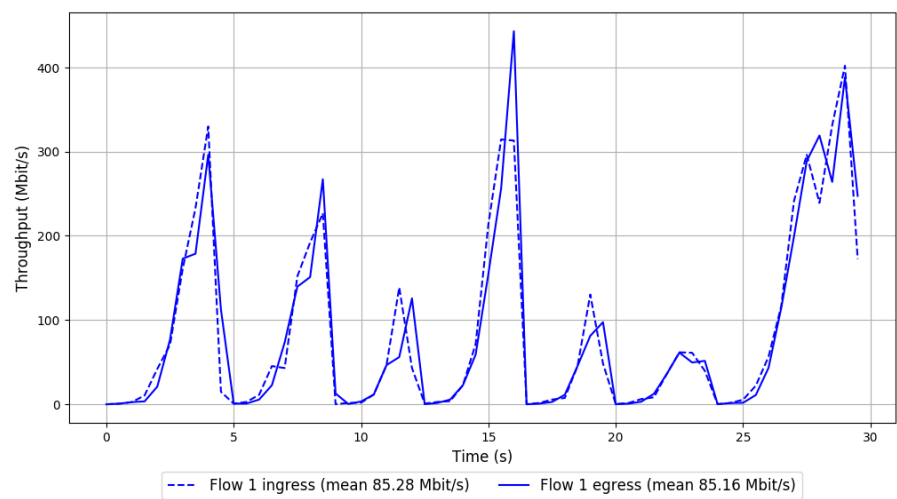
-- Flow 1:

Average throughput: 85.16 Mbit/s

95th percentile per-packet one-way delay: 180.484 ms

Loss rate: 0.13%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-02-16 18:24:31

End at: 2018-02-16 18:25:01

Below is generated by plot.py at 2018-02-16 21:48:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.15 Mbit/s

95th percentile per-packet one-way delay: 149.210 ms

Loss rate: 0.00%

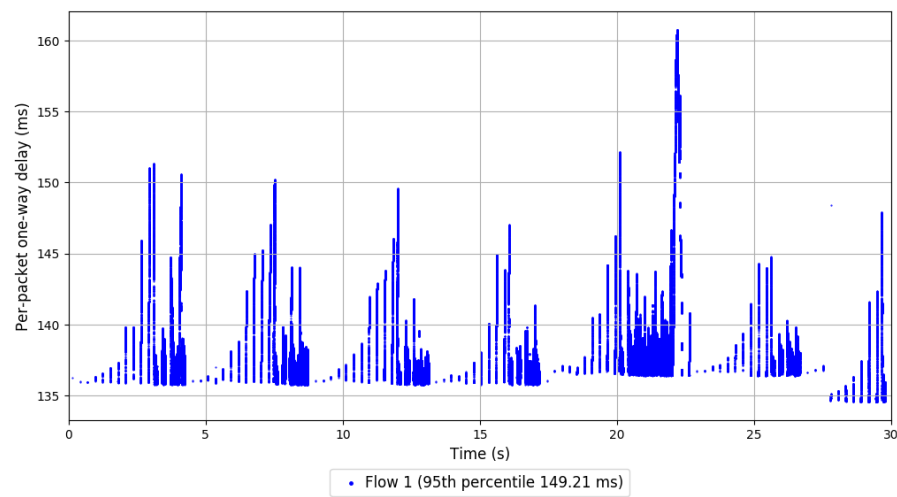
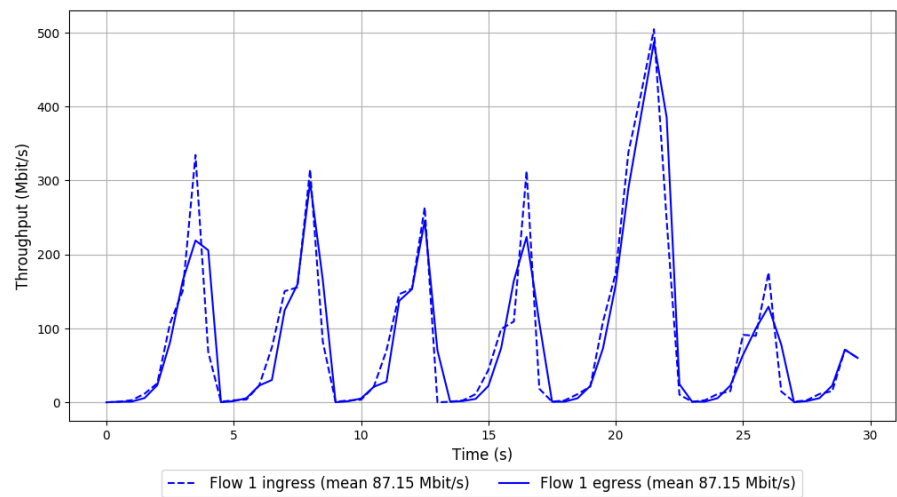
-- Flow 1:

Average throughput: 87.15 Mbit/s

95th percentile per-packet one-way delay: 149.210 ms

Loss rate: 0.00%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-02-16 18:40:37

End at: 2018-02-16 18:41:07

Below is generated by plot.py at 2018-02-16 21:48:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 80.76 Mbit/s

95th percentile per-packet one-way delay: 147.436 ms

Loss rate: 0.00%

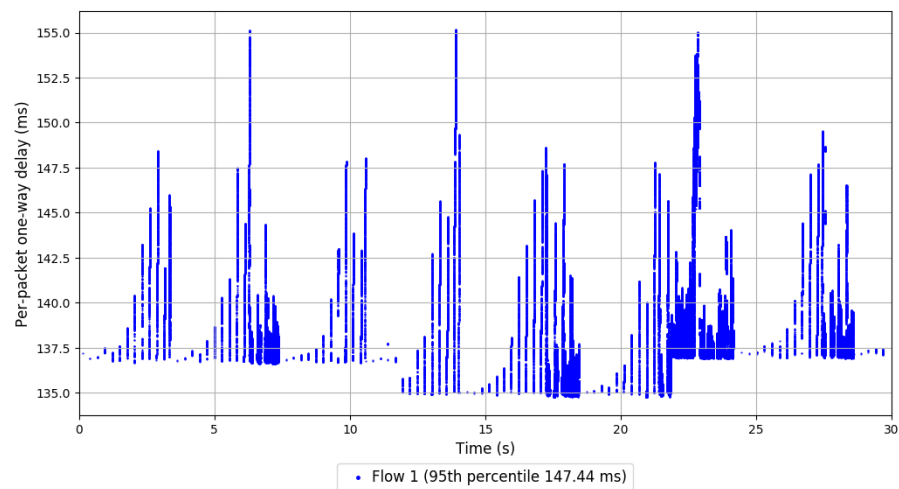
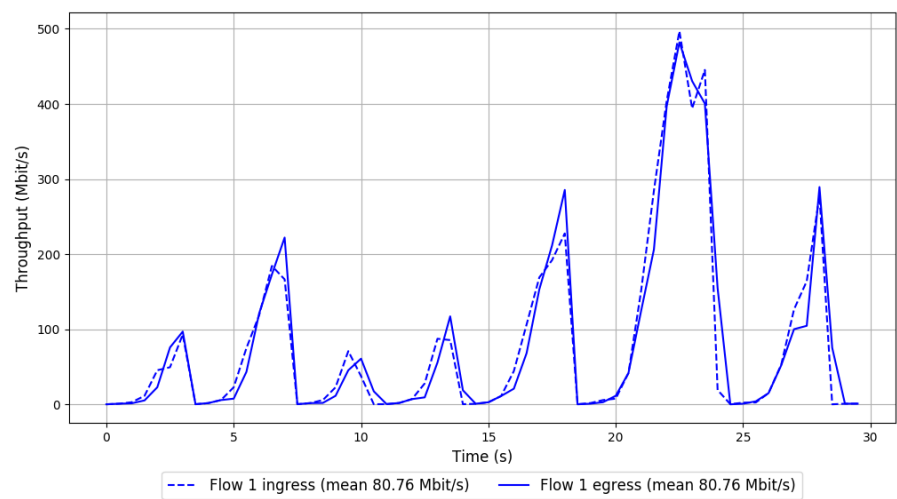
-- Flow 1:

Average throughput: 80.76 Mbit/s

95th percentile per-packet one-way delay: 147.436 ms

Loss rate: 0.00%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-02-16 18:56:47

End at: 2018-02-16 18:57:17

Below is generated by plot.py at 2018-02-16 21:50:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 193.86 Mbit/s

95th percentile per-packet one-way delay: 221.143 ms

Loss rate: 1.48%

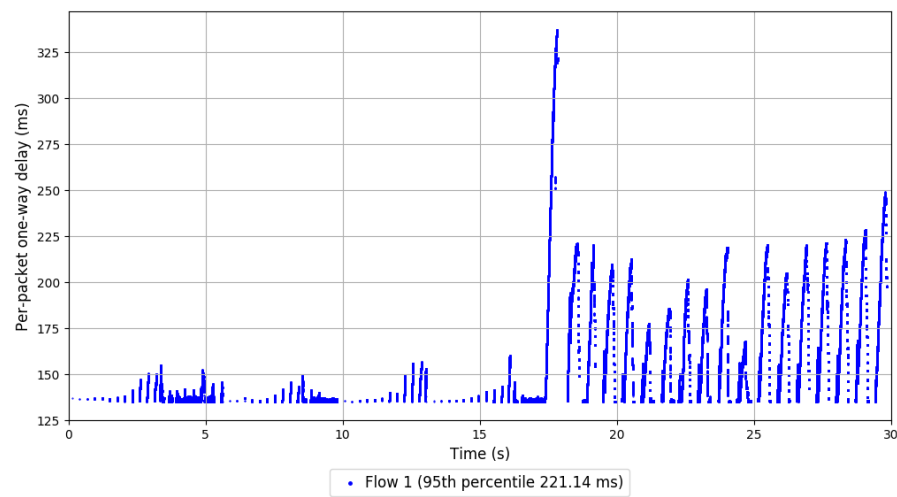
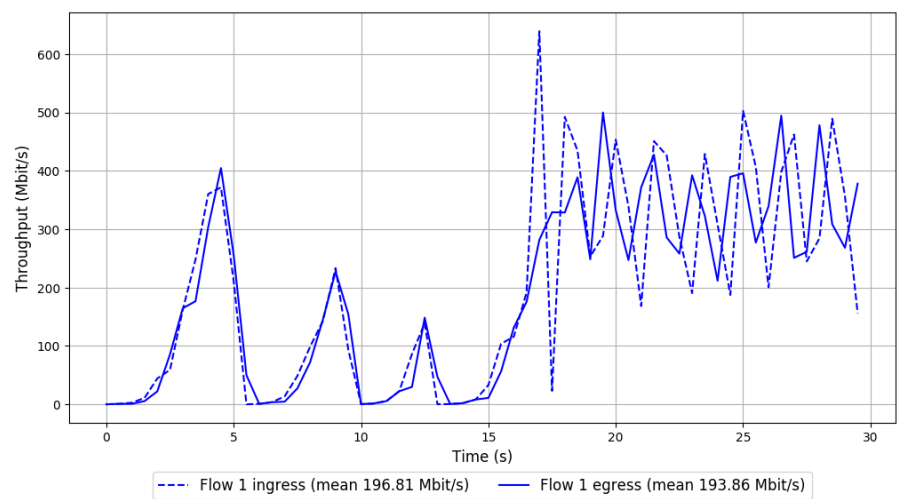
-- Flow 1:

Average throughput: 193.86 Mbit/s

95th percentile per-packet one-way delay: 221.143 ms

Loss rate: 1.48%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-02-16 19:13:17

End at: 2018-02-16 19:13:47

Below is generated by plot.py at 2018-02-16 21:51:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 238.36 Mbit/s

95th percentile per-packet one-way delay: 209.604 ms

Loss rate: 0.85%

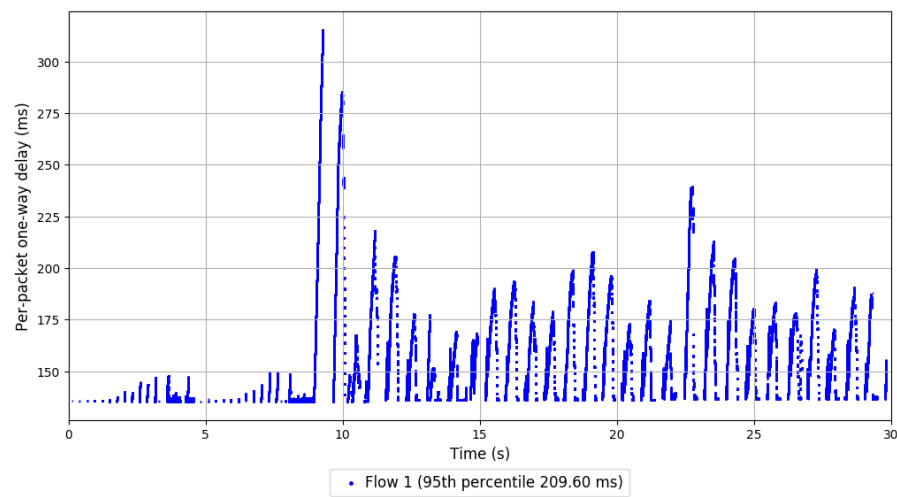
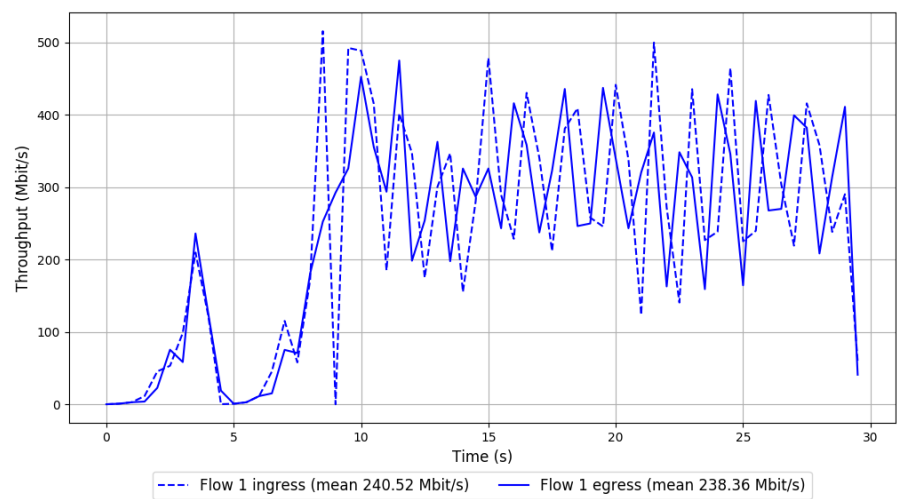
-- Flow 1:

Average throughput: 238.36 Mbit/s

95th percentile per-packet one-way delay: 209.604 ms

Loss rate: 0.85%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-02-16 19:29:50

End at: 2018-02-16 19:30:20

Below is generated by plot.py at 2018-02-16 21:51:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 152.13 Mbit/s

95th percentile per-packet one-way delay: 170.271 ms

Loss rate: 0.01%

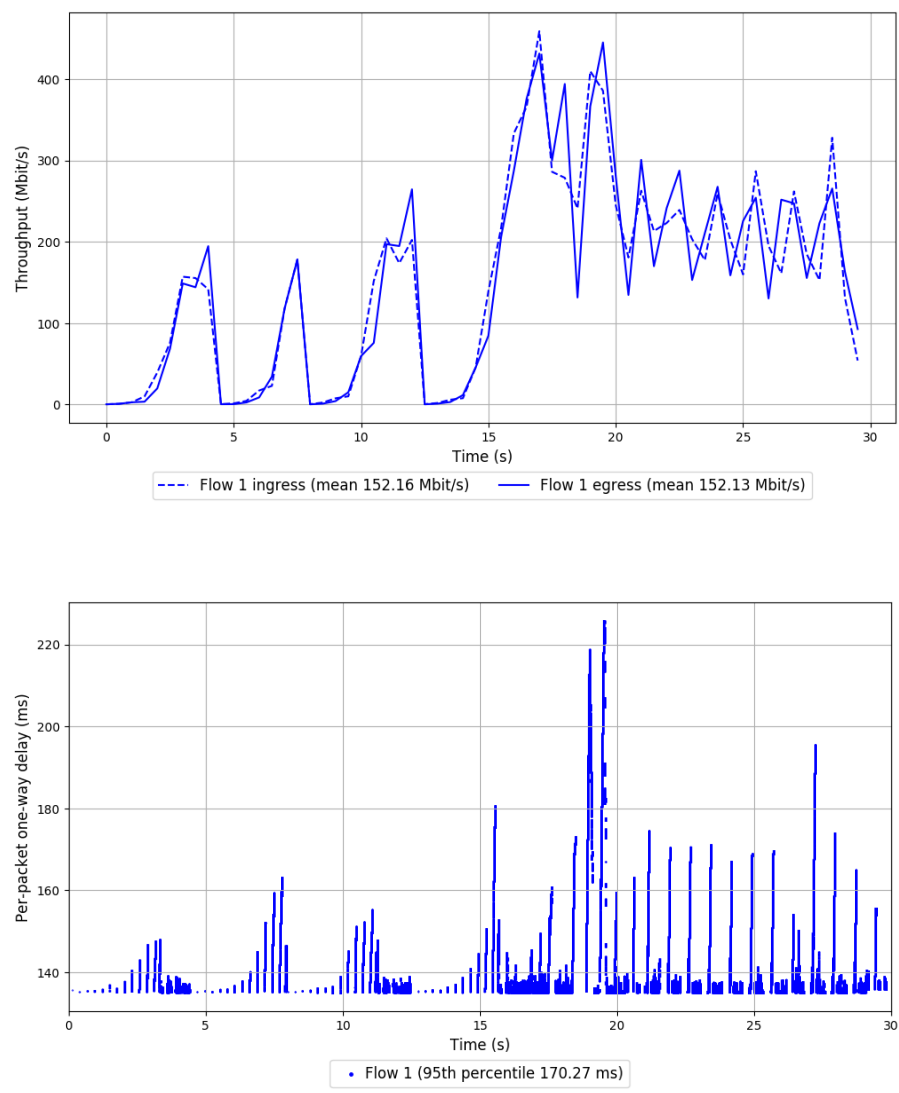
-- Flow 1:

Average throughput: 152.13 Mbit/s

95th percentile per-packet one-way delay: 170.271 ms

Loss rate: 0.01%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-02-16 19:46:13

End at: 2018-02-16 19:46:44

Below is generated by plot.py at 2018-02-16 21:51:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 114.52 Mbit/s

95th percentile per-packet one-way delay: 141.753 ms

Loss rate: 0.00%

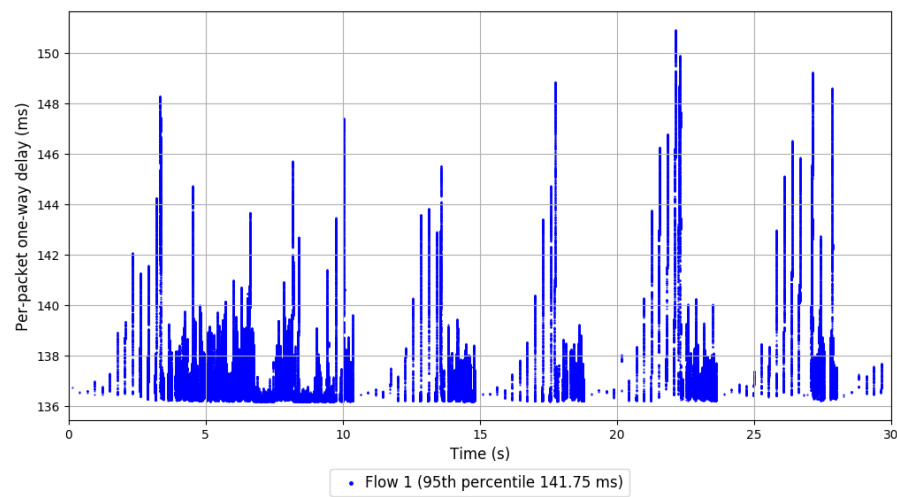
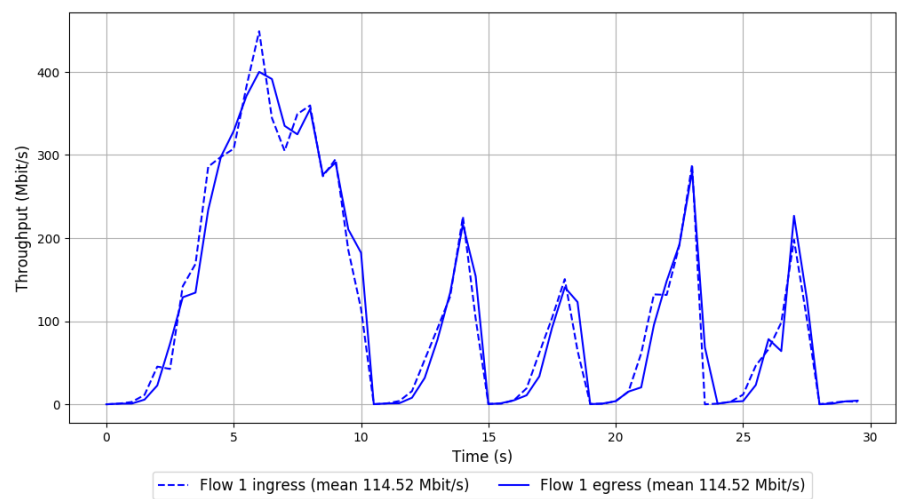
-- Flow 1:

Average throughput: 114.52 Mbit/s

95th percentile per-packet one-way delay: 141.753 ms

Loss rate: 0.00%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2018-02-16 17:23:47

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

Below is generated by plot.py at 2018-02-16 21:51:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.67 Mbit/s

95th percentile per-packet one-way delay: 136.841 ms

Loss rate: 0.00%

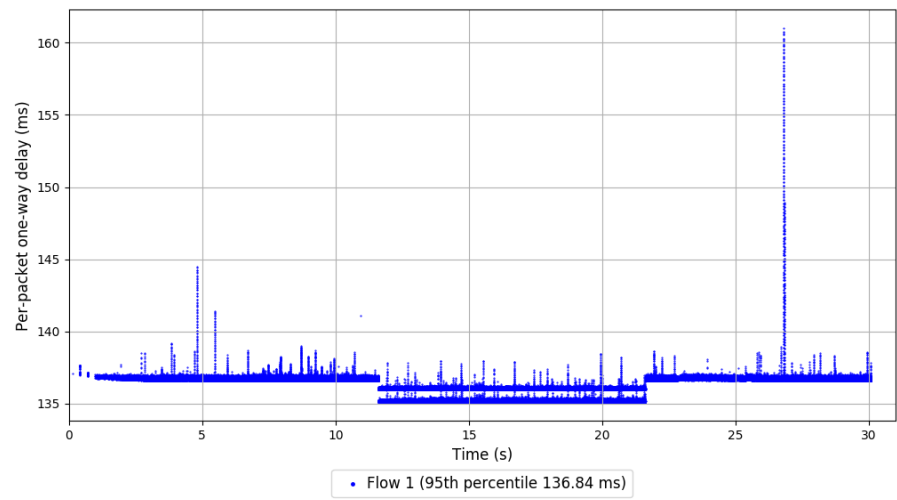
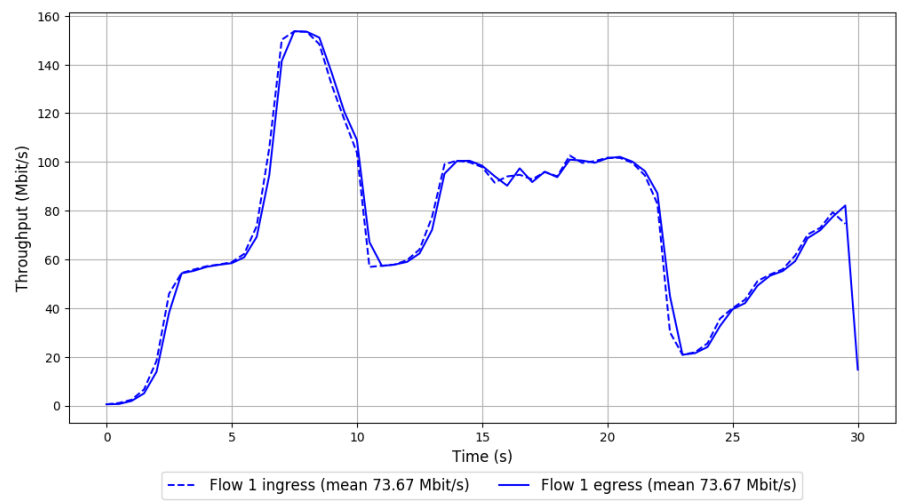
-- Flow 1:

Average throughput: 73.67 Mbit/s

95th percentile per-packet one-way delay: 136.841 ms

Loss rate: 0.00%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-02-16 17:39:38

End at: 2018-02-16 17:40:08

Below is generated by plot.py at 2018-02-16 21:51:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 80.83 Mbit/s

95th percentile per-packet one-way delay: 136.744 ms

Loss rate: 0.00%

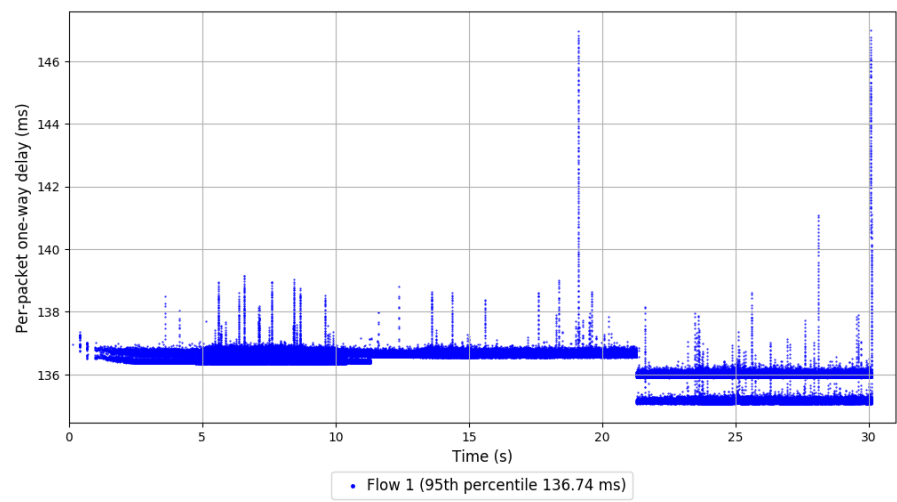
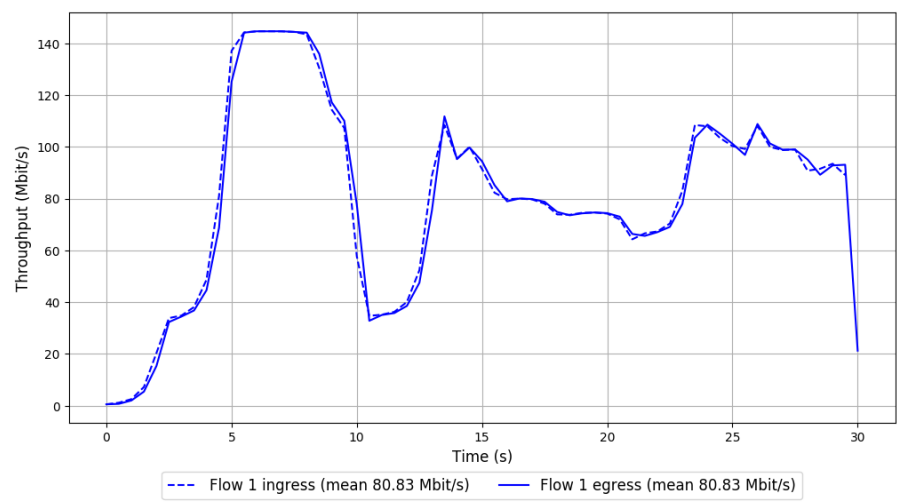
-- Flow 1:

Average throughput: 80.83 Mbit/s

95th percentile per-packet one-way delay: 136.744 ms

Loss rate: 0.00%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-02-16 17:55:47

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

Below is generated by plot.py at 2018-02-16 22:00:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 402.57 Mbit/s

95th percentile per-packet one-way delay: 326.892 ms

Loss rate: 21.98%

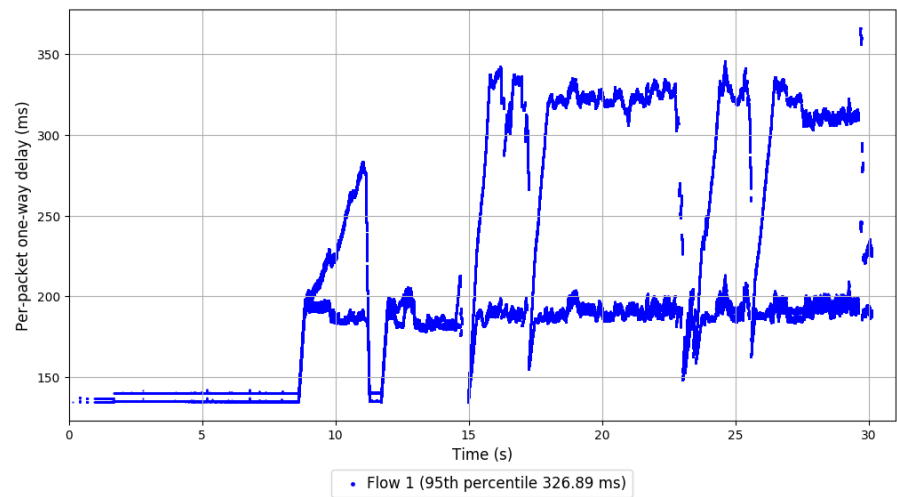
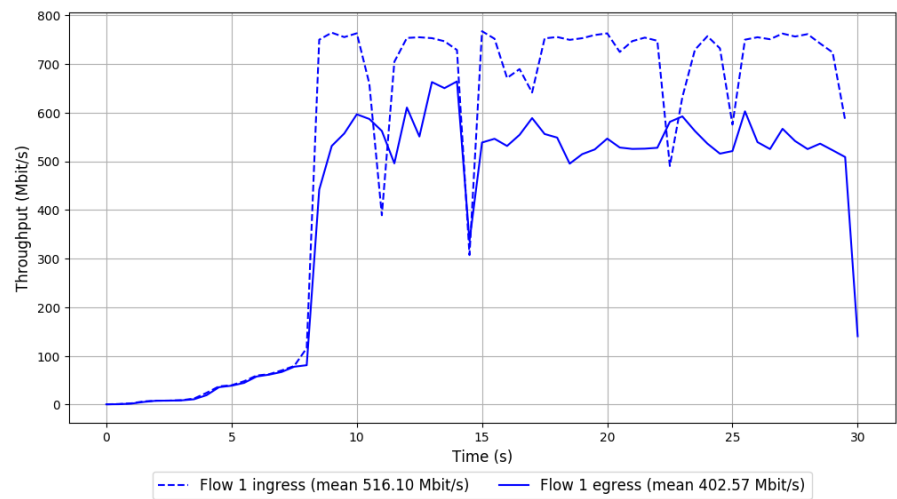
-- Flow 1:

Average throughput: 402.57 Mbit/s

95th percentile per-packet one-way delay: 326.892 ms

Loss rate: 21.98%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-02-16 18:11:48

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

Below is generated by plot.py at 2018-02-16 22:00:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 56.91 Mbit/s

95th percentile per-packet one-way delay: 140.793 ms

Loss rate: 0.00%

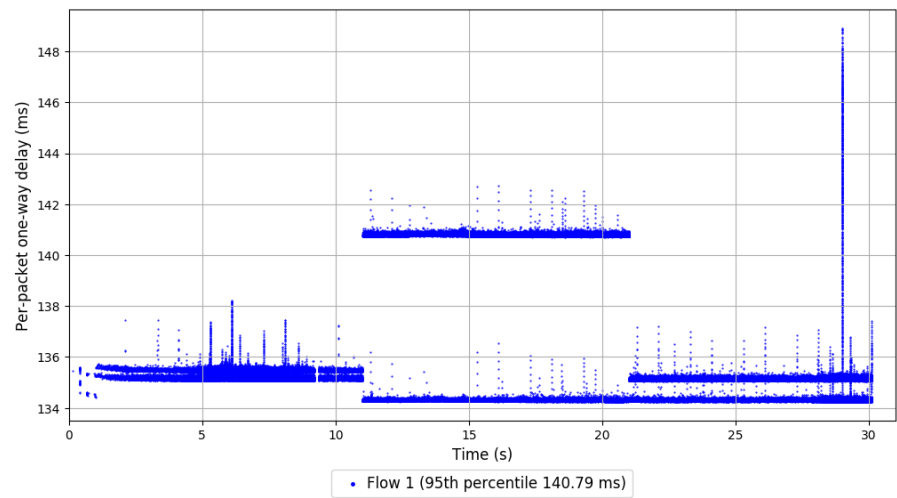
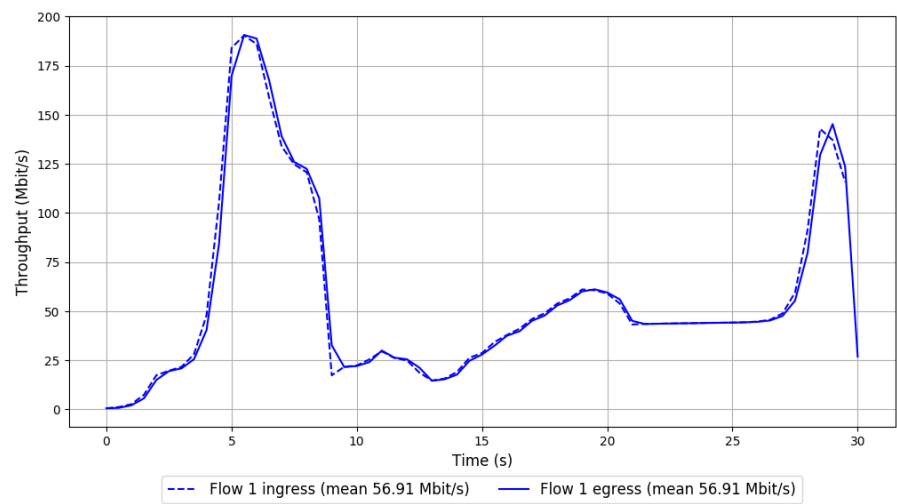
-- Flow 1:

Average throughput: 56.91 Mbit/s

95th percentile per-packet one-way delay: 140.793 ms

Loss rate: 0.00%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-02-16 18:27:44

End at: 2018-02-16 18:28:14

Below is generated by plot.py at 2018-02-16 22:00:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.25 Mbit/s

95th percentile per-packet one-way delay: 136.603 ms

Loss rate: 0.00%

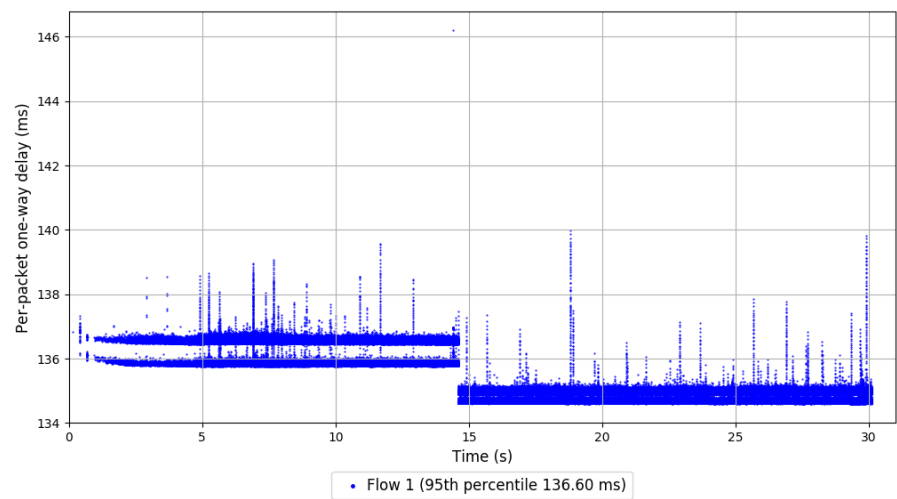
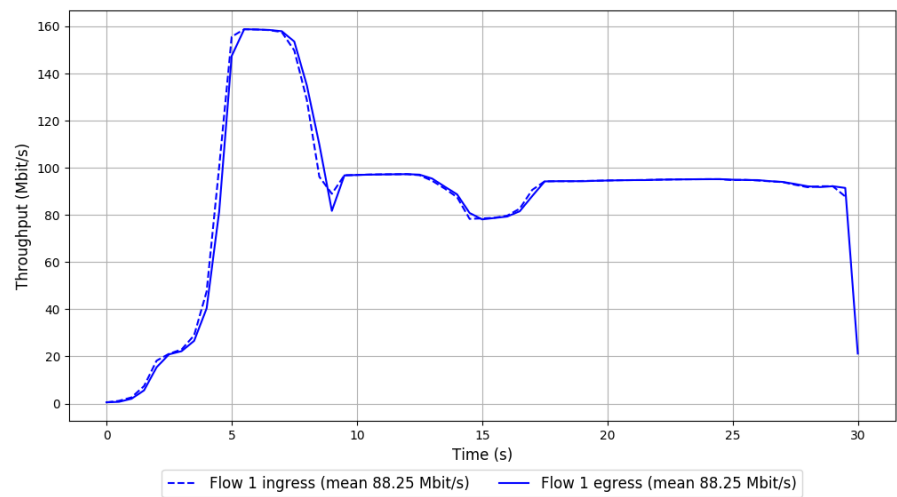
-- Flow 1:

Average throughput: 88.25 Mbit/s

95th percentile per-packet one-way delay: 136.603 ms

Loss rate: 0.00%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-02-16 18:43:49

End at: 2018-02-16 18:44:19

Below is generated by plot.py at 2018-02-16 22:00:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.79 Mbit/s

95th percentile per-packet one-way delay: 137.298 ms

Loss rate: 0.00%

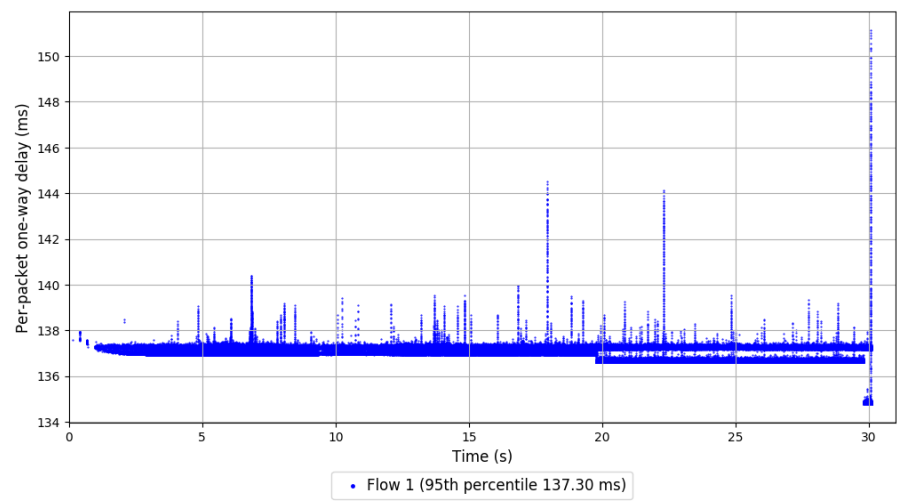
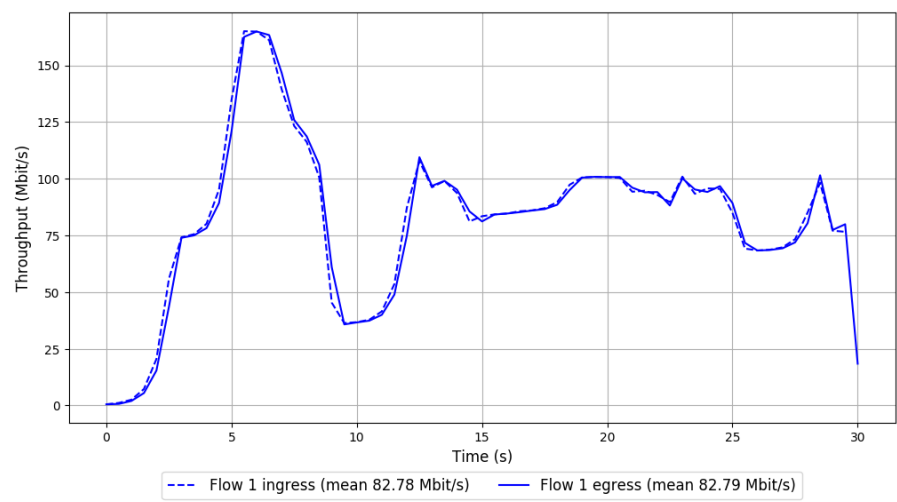
-- Flow 1:

Average throughput: 82.79 Mbit/s

95th percentile per-packet one-way delay: 137.298 ms

Loss rate: 0.00%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-02-16 19:00:07

End at: 2018-02-16 19:00:37

Below is generated by plot.py at 2018-02-16 22:00:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 62.95 Mbit/s

95th percentile per-packet one-way delay: 141.125 ms

Loss rate: 0.00%

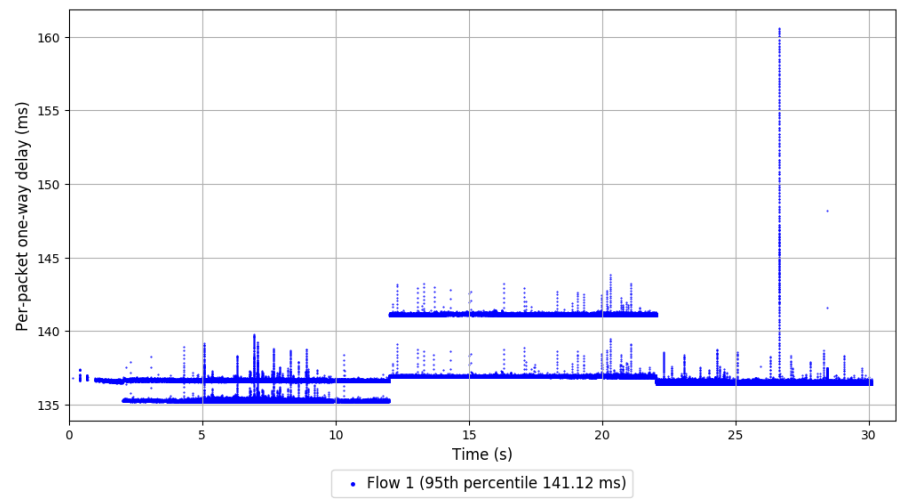
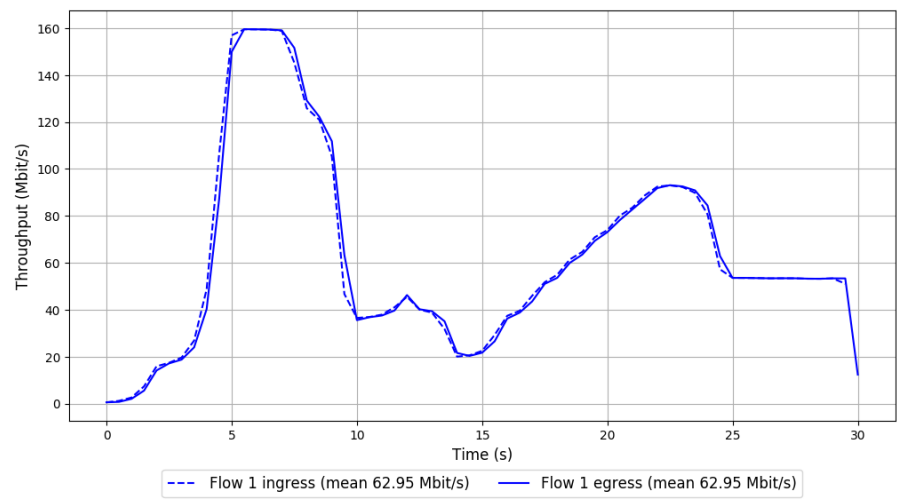
-- Flow 1:

Average throughput: 62.95 Mbit/s

95th percentile per-packet one-way delay: 141.125 ms

Loss rate: 0.00%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-02-16 19:16:41

End at: 2018-02-16 19:17:11

Below is generated by plot.py at 2018-02-16 22:00:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 59.91 Mbit/s

95th percentile per-packet one-way delay: 136.618 ms

Loss rate: 0.00%

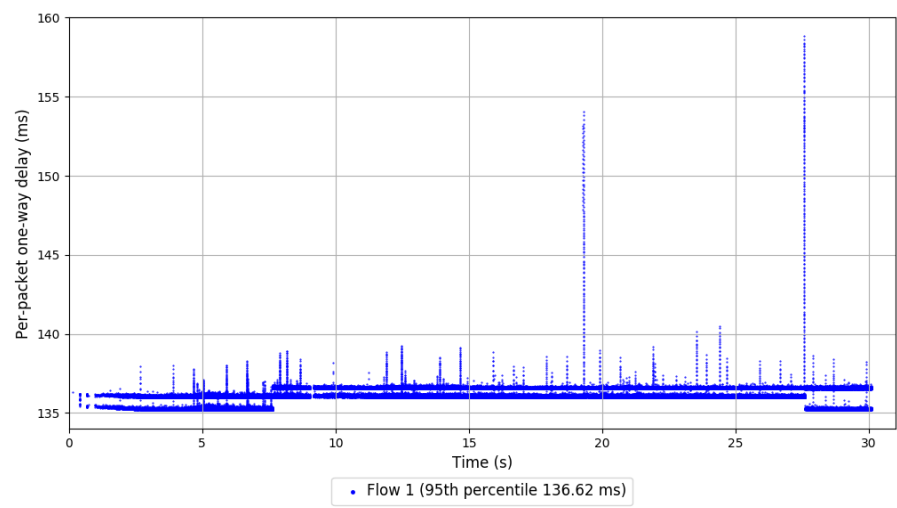
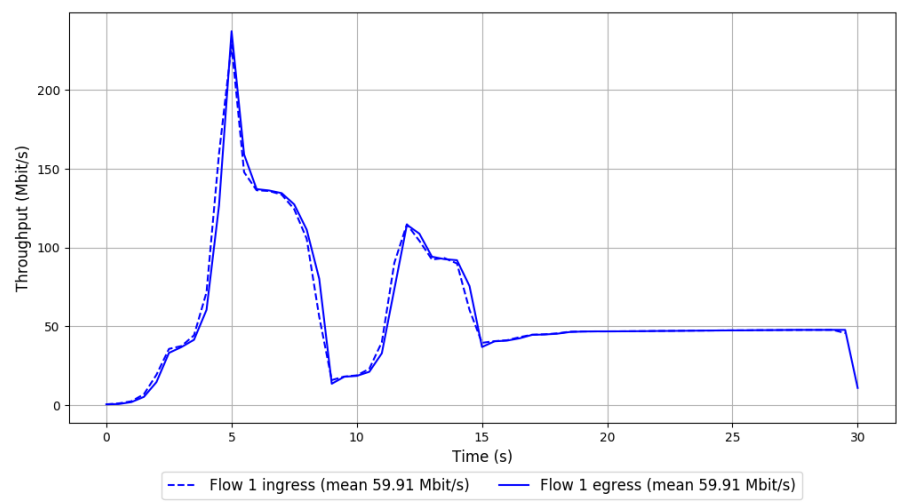
-- Flow 1:

Average throughput: 59.91 Mbit/s

95th percentile per-packet one-way delay: 136.618 ms

Loss rate: 0.00%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-02-16 19:33:06

End at: 2018-02-16 19:33:36

Below is generated by plot.py at 2018-02-16 22:00:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.51 Mbit/s

95th percentile per-packet one-way delay: 136.313 ms

Loss rate: 0.00%

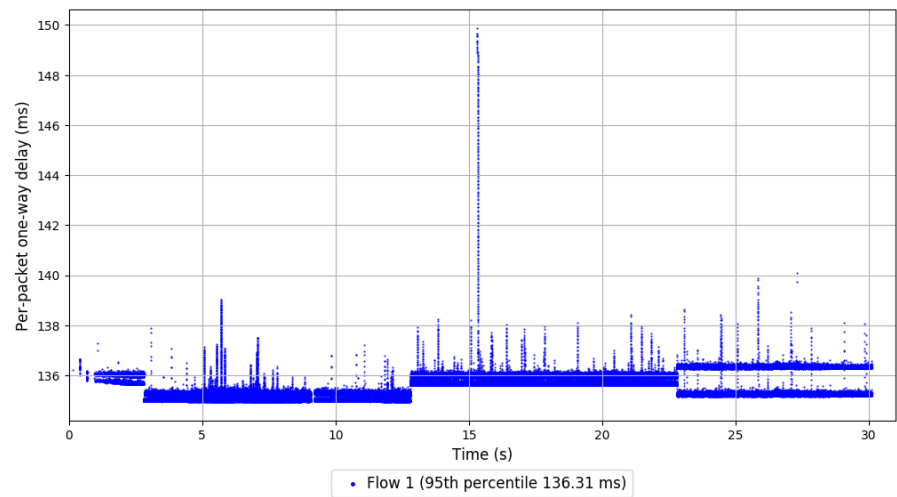
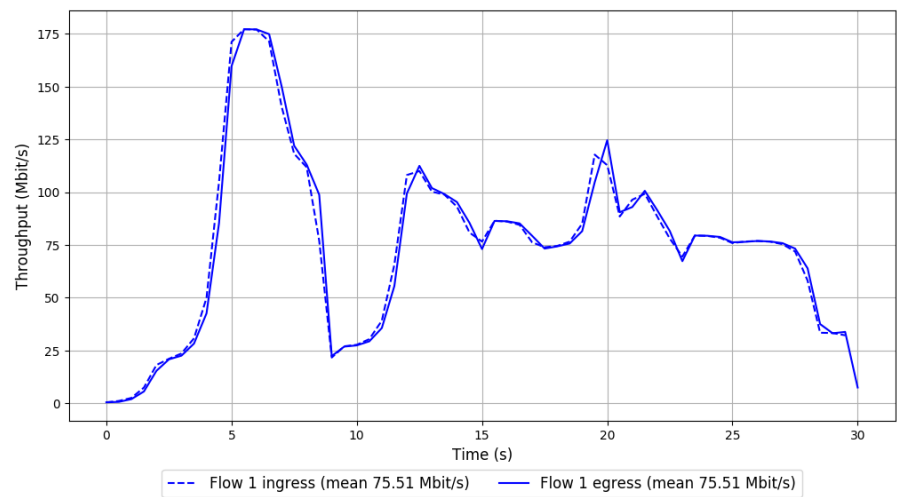
-- Flow 1:

Average throughput: 75.51 Mbit/s

95th percentile per-packet one-way delay: 136.313 ms

Loss rate: 0.00%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-02-16 19:49:27

End at: 2018-02-16 19:49:57

Below is generated by plot.py at 2018-02-16 22:00:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 55.88 Mbit/s

95th percentile per-packet one-way delay: 135.861 ms

Loss rate: 0.00%

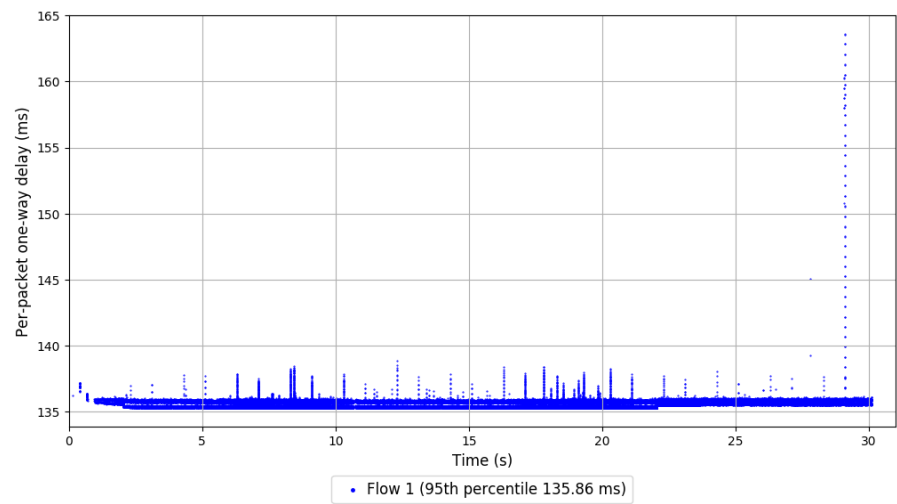
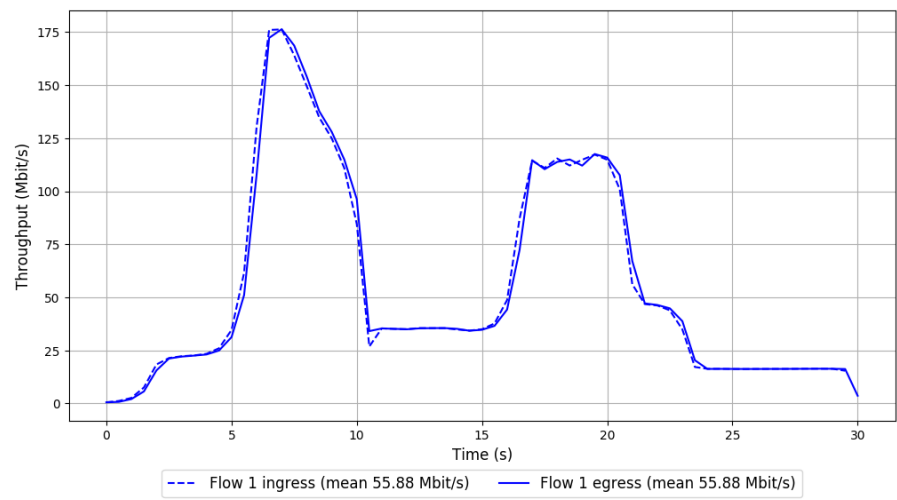
-- Flow 1:

Average throughput: 55.88 Mbit/s

95th percentile per-packet one-way delay: 135.861 ms

Loss rate: 0.00%

Run 10: Report of Copa — Data Link



Run 1: Statistics of FillP

Start at: 2018-02-16 17:29:31

End at: 2018-02-16 17:30:01

Below is generated by plot.py at 2018-02-16 22:08:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 959.45 Mbit/s

95th percentile per-packet one-way delay: 161.022 ms

Loss rate: 0.26%

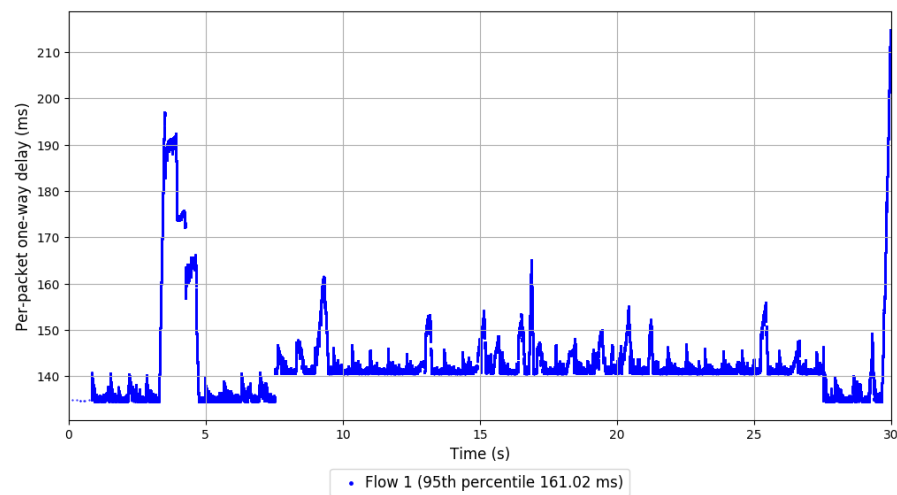
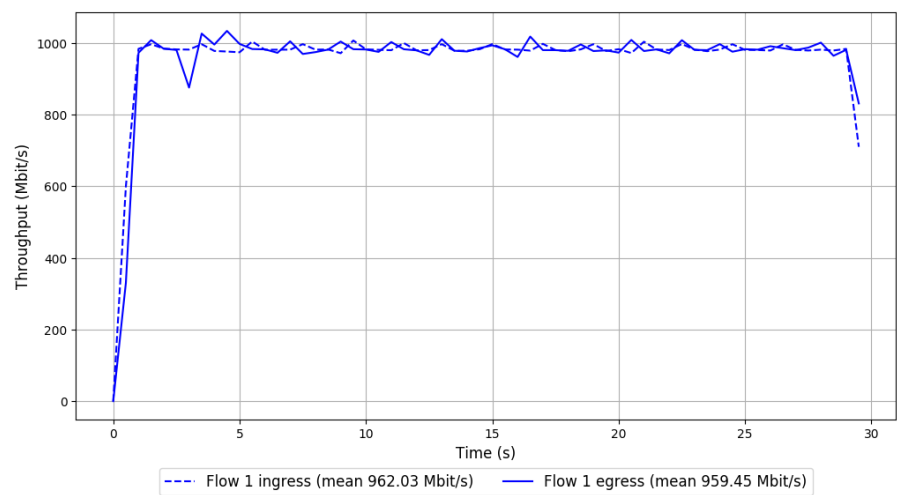
-- Flow 1:

Average throughput: 959.45 Mbit/s

95th percentile per-packet one-way delay: 161.022 ms

Loss rate: 0.26%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-02-16 17:45:27

End at: 2018-02-16 17:45:57

Below is generated by plot.py at 2018-02-16 22:09:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 949.99 Mbit/s

95th percentile per-packet one-way delay: 185.326 ms

Loss rate: 0.51%

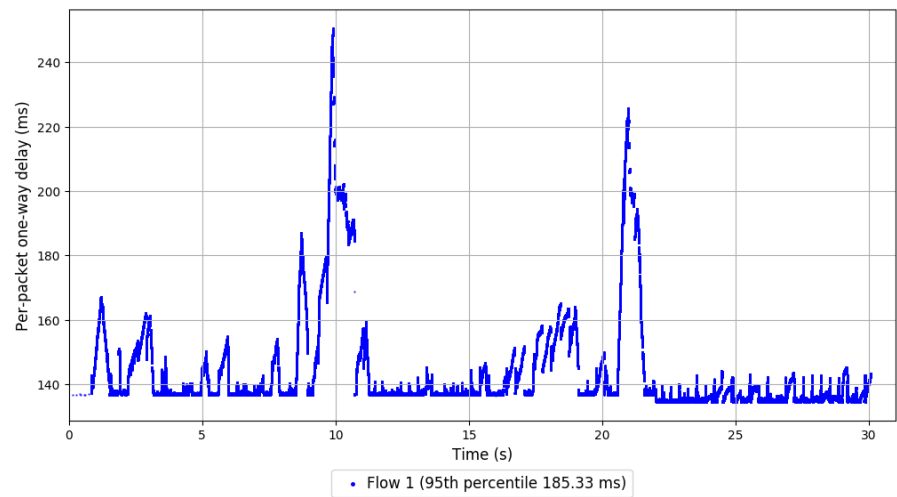
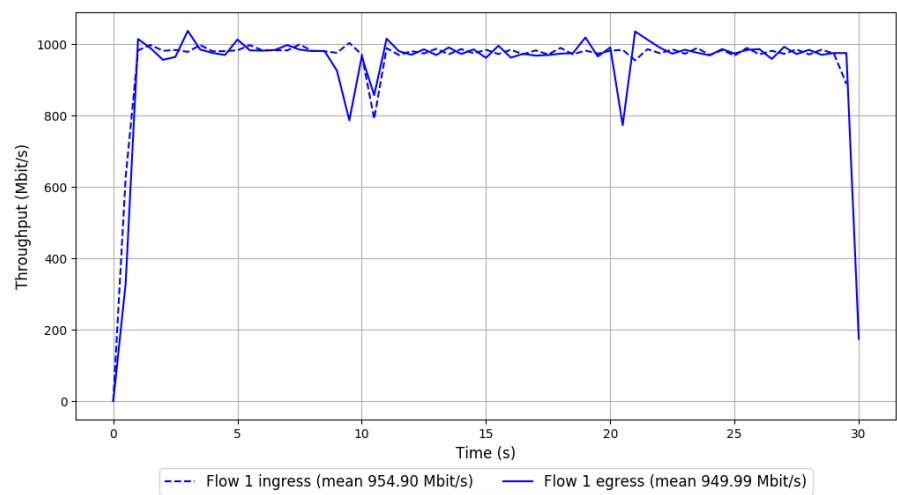
-- Flow 1:

Average throughput: 949.99 Mbit/s

95th percentile per-packet one-way delay: 185.326 ms

Loss rate: 0.51%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-02-16 18:01:51

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

Below is generated by plot.py at 2018-02-16 22:09:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 944.11 Mbit/s

95th percentile per-packet one-way delay: 165.769 ms

Loss rate: 0.00%

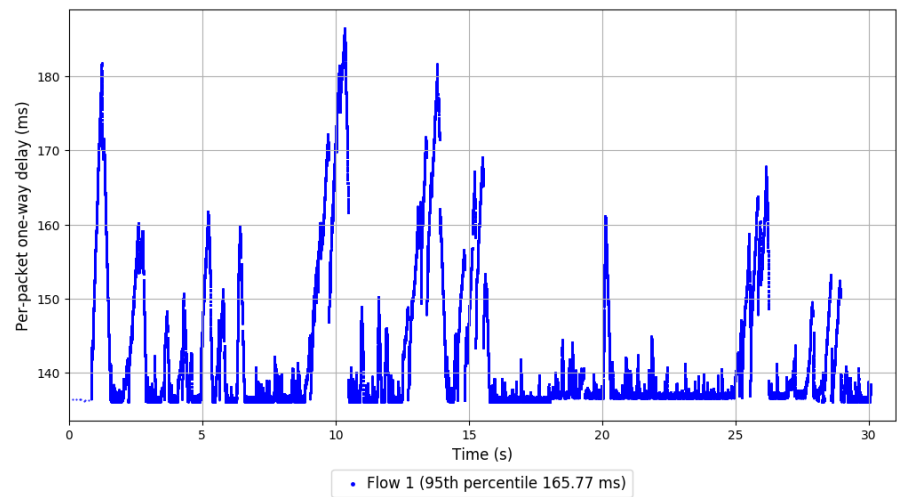
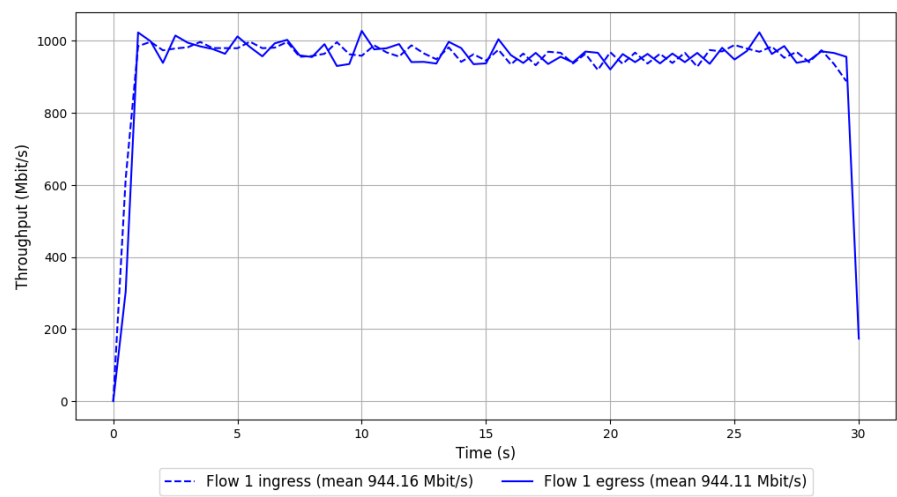
-- Flow 1:

Average throughput: 944.11 Mbit/s

95th percentile per-packet one-way delay: 165.769 ms

Loss rate: 0.00%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-02-16 18:17:33

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

Below is generated by plot.py at 2018-02-16 22:09:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 945.77 Mbit/s

95th percentile per-packet one-way delay: 193.135 ms

Loss rate: 0.38%

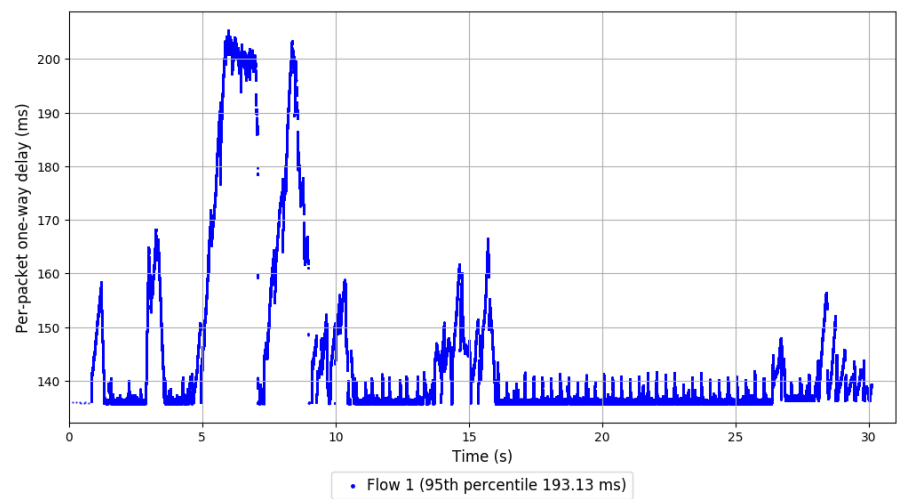
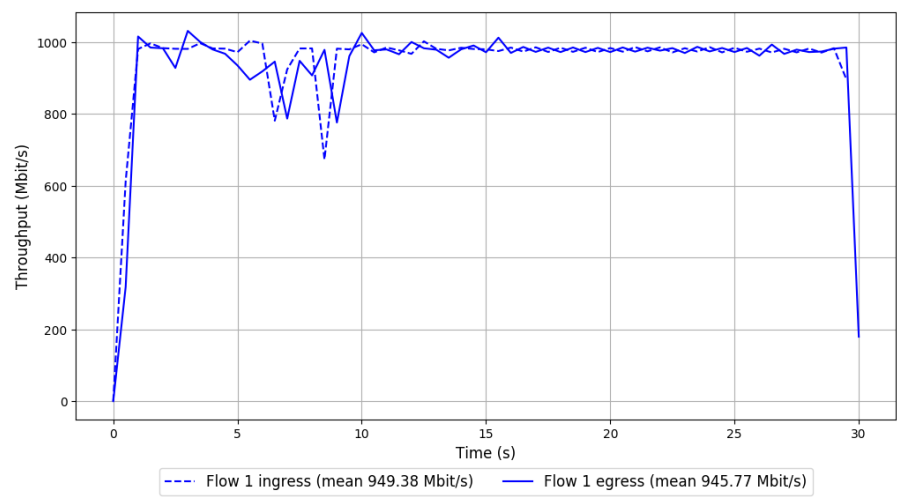
-- Flow 1:

Average throughput: 945.77 Mbit/s

95th percentile per-packet one-way delay: 193.135 ms

Loss rate: 0.38%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-02-16 18:33:47

End at: 2018-02-16 18:34:17

Below is generated by plot.py at 2018-02-16 22:09:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 941.63 Mbit/s

95th percentile per-packet one-way delay: 182.141 ms

Loss rate: 0.16%

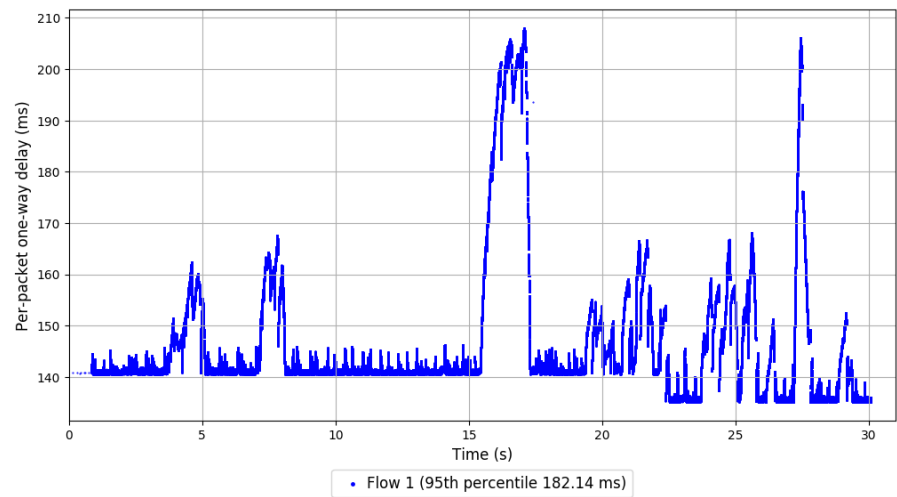
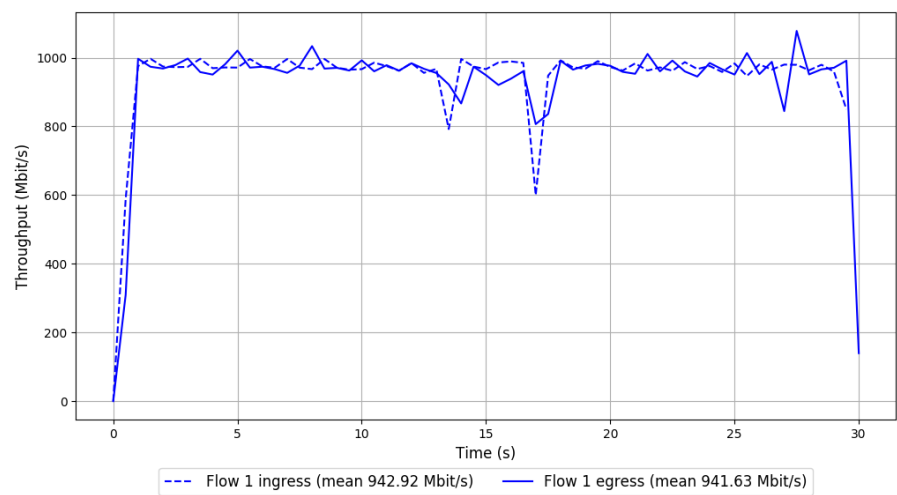
-- Flow 1:

Average throughput: 941.63 Mbit/s

95th percentile per-packet one-way delay: 182.141 ms

Loss rate: 0.16%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-02-16 18:49:39

End at: 2018-02-16 18:50:09

Below is generated by plot.py at 2018-02-16 22:09:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 955.89 Mbit/s

95th percentile per-packet one-way delay: 166.027 ms

Loss rate: 0.00%

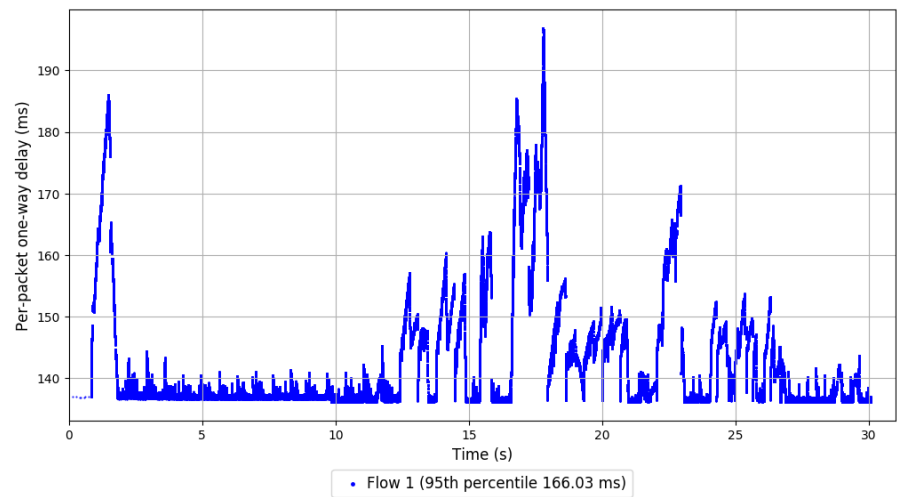
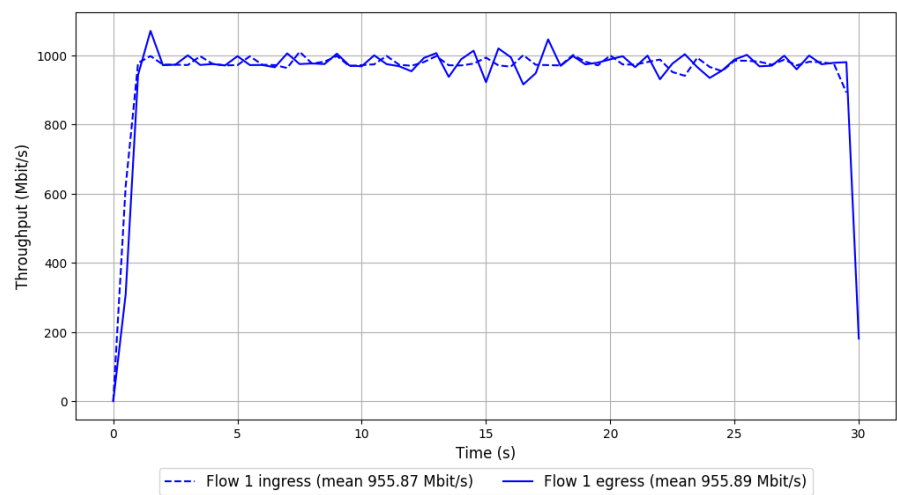
-- Flow 1:

Average throughput: 955.89 Mbit/s

95th percentile per-packet one-way delay: 166.027 ms

Loss rate: 0.00%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-02-16 19:06:15

End at: 2018-02-16 19:06:45

Below is generated by plot.py at 2018-02-16 22:09:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 924.09 Mbit/s

95th percentile per-packet one-way delay: 150.224 ms

Loss rate: 0.00%

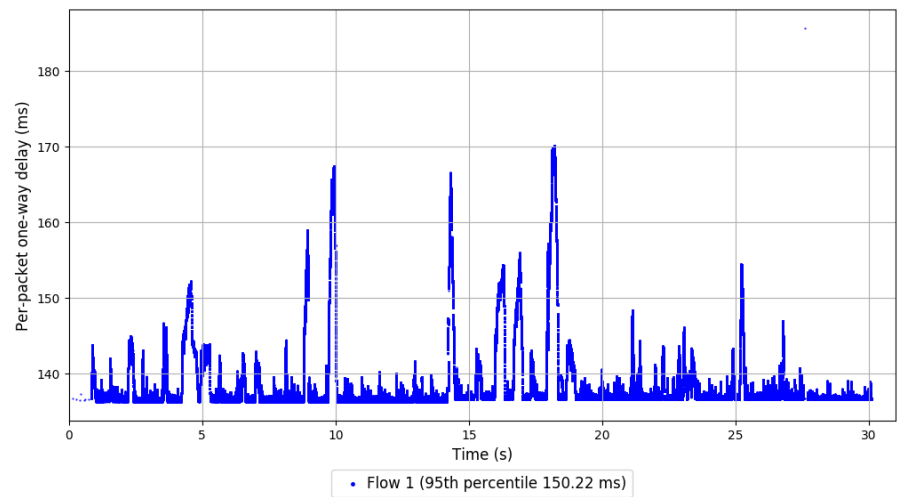
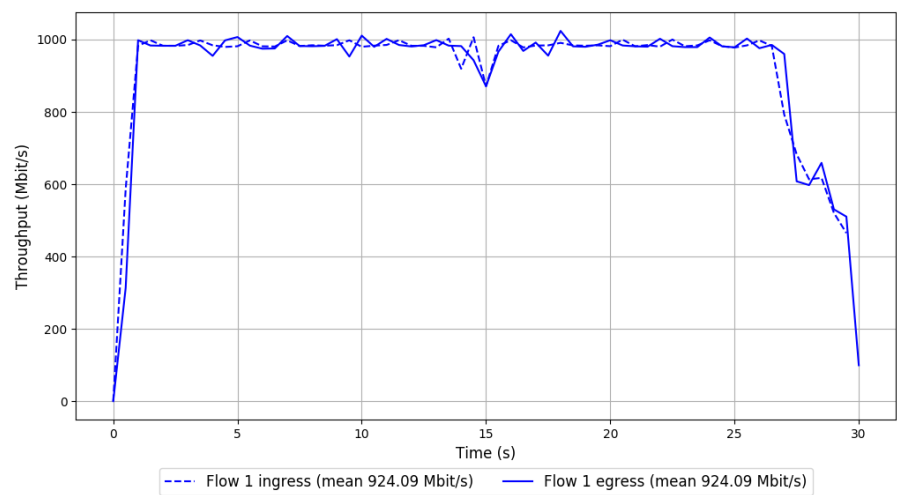
-- Flow 1:

Average throughput: 924.09 Mbit/s

95th percentile per-packet one-way delay: 150.224 ms

Loss rate: 0.00%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-02-16 19:22:51

End at: 2018-02-16 19:23:21

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 949.01 Mbit/s

95th percentile per-packet one-way delay: 178.514 ms

Loss rate: 0.00%

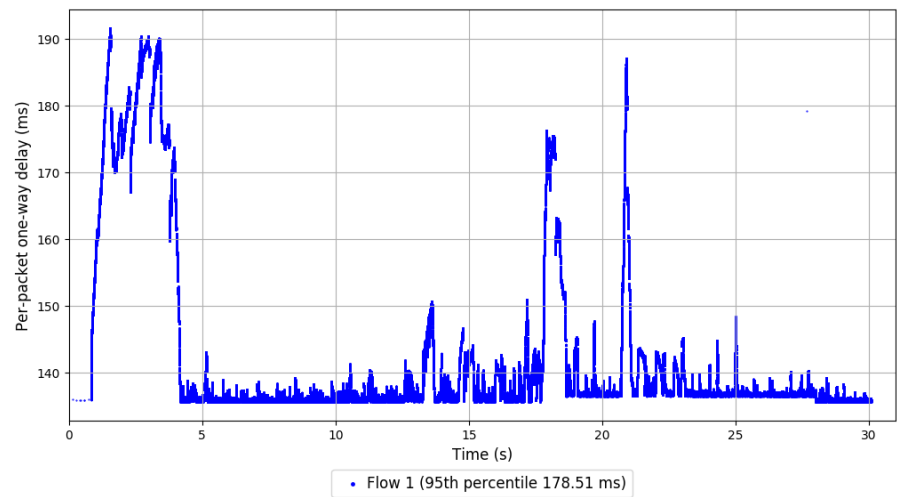
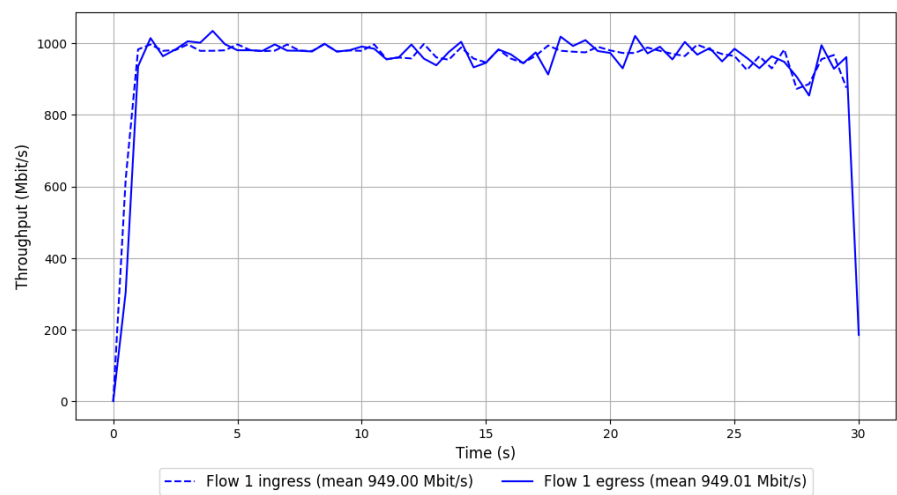
-- Flow 1:

Average throughput: 949.01 Mbit/s

95th percentile per-packet one-way delay: 178.514 ms

Loss rate: 0.00%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-02-16 19:39:14

End at: 2018-02-16 19:39:44

Below is generated by plot.py at 2018-02-16 22:27:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 955.44 Mbit/s

95th percentile per-packet one-way delay: 236.187 ms

Loss rate: 0.05%

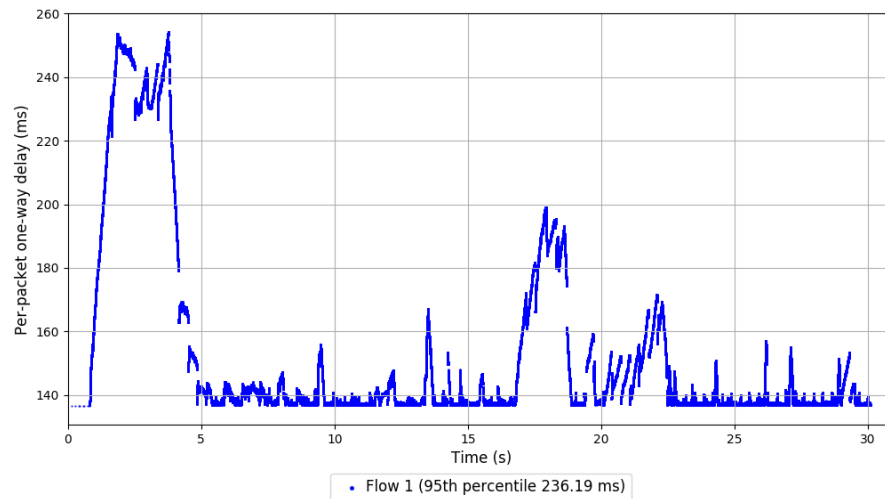
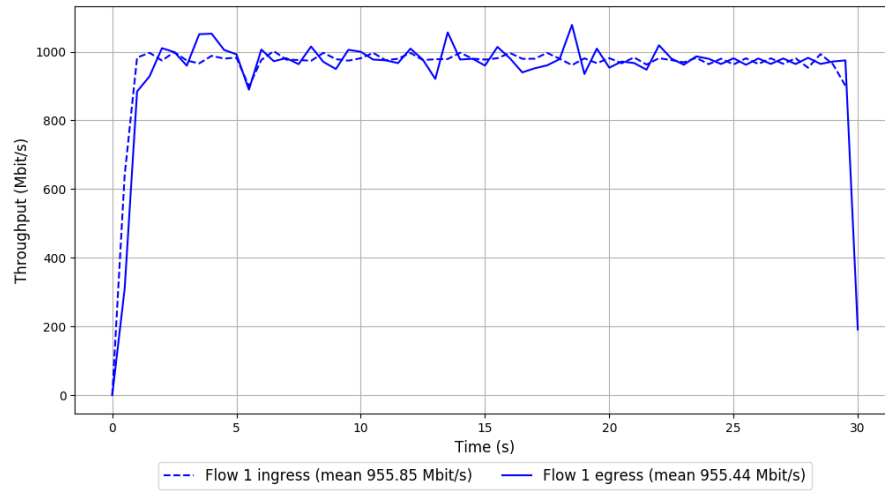
-- Flow 1:

Average throughput: 955.44 Mbit/s

95th percentile per-packet one-way delay: 236.187 ms

Loss rate: 0.05%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-02-16 19:55:17

End at: 2018-02-16 19:55:47

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 939.77 Mbit/s

95th percentile per-packet one-way delay: 192.957 ms

Loss rate: 1.43%

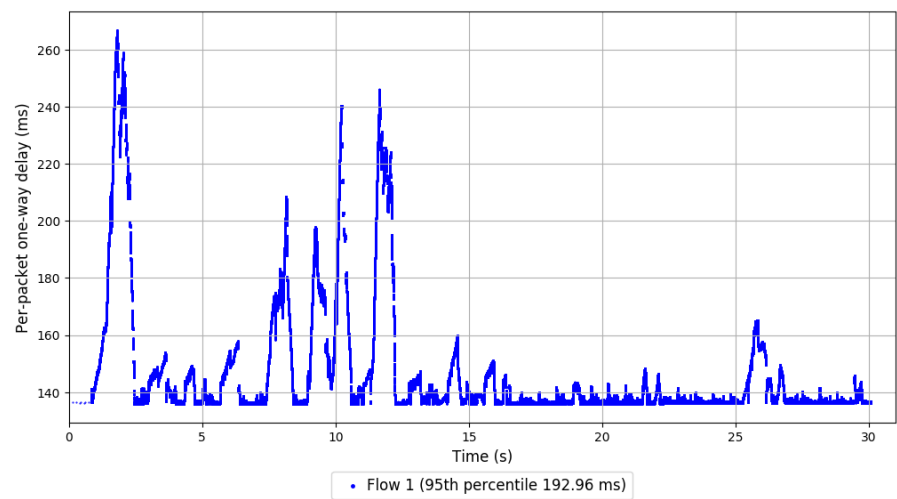
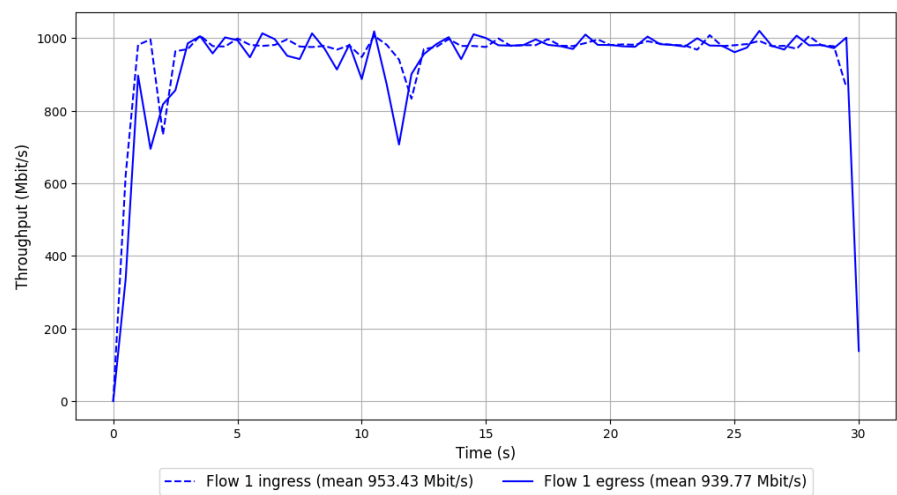
-- Flow 1:

Average throughput: 939.77 Mbit/s

95th percentile per-packet one-way delay: 192.957 ms

Loss rate: 1.43%

Run 10: Report of FillP — Data Link

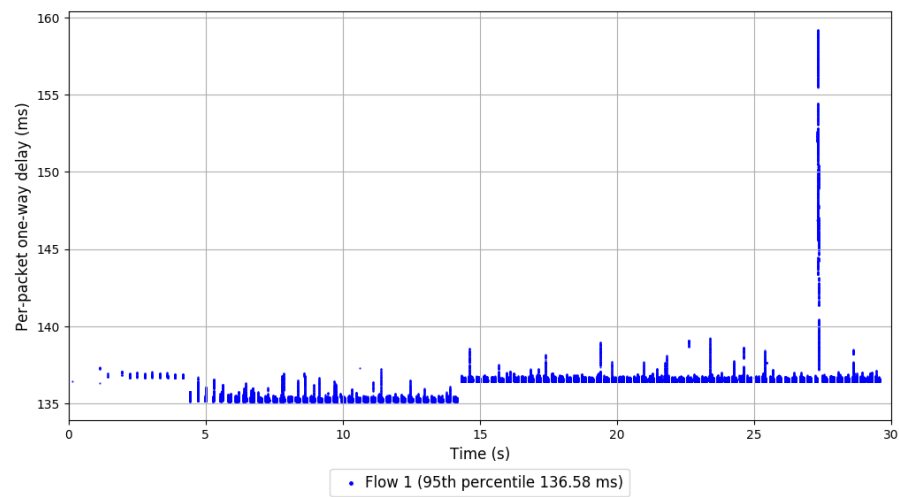
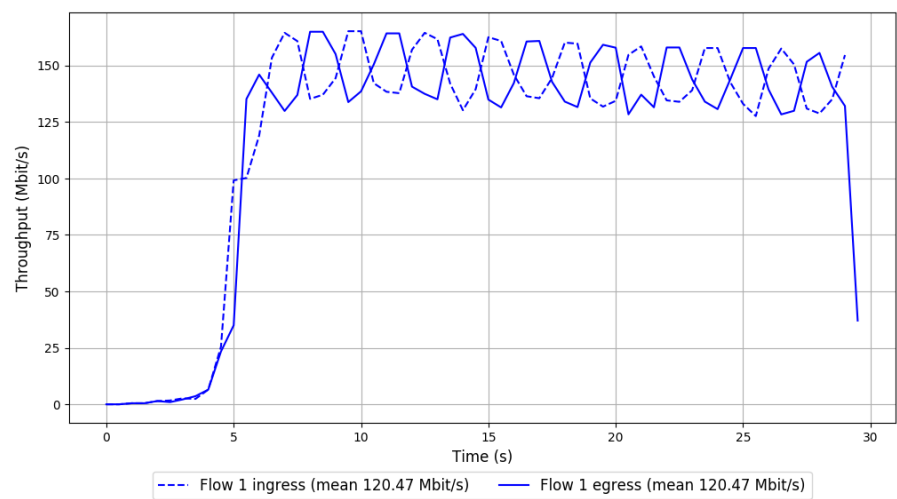


```
Run 1: Statistics of Indigo-1-32

Start at: 2018-02-16 17:22:14
End at: 2018-02-16 17:22:44

# Below is generated by plot.py at 2018-02-16 22:27:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 120.47 Mbit/s
95th percentile per-packet one-way delay: 136.577 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 120.47 Mbit/s
95th percentile per-packet one-way delay: 136.577 ms
Loss rate: 0.00%
```

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



Run 2: Statistics of Indigo-1-32

Start at: 2018-02-16 17:38:01

End at: 2018-02-16 17:38:31

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 167.24 Mbit/s

95th percentile per-packet one-way delay: 136.666 ms

Loss rate: 0.00%

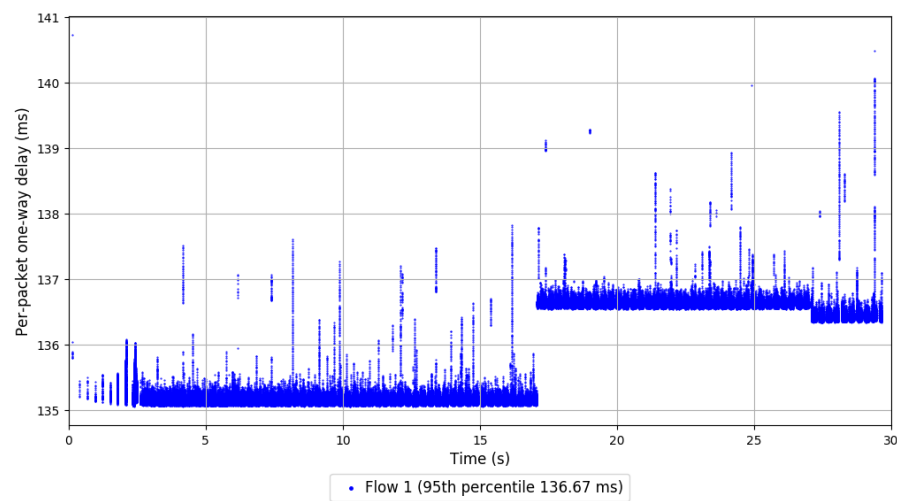
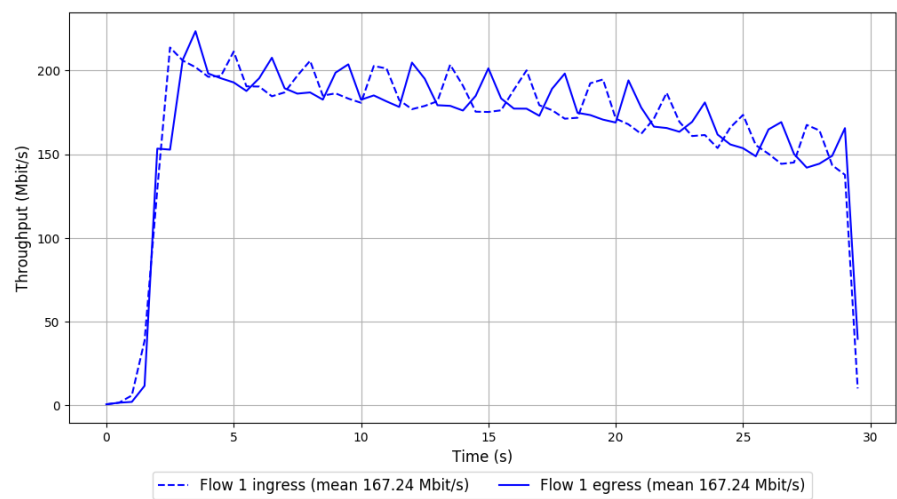
-- Flow 1:

Average throughput: 167.24 Mbit/s

95th percentile per-packet one-way delay: 136.666 ms

Loss rate: 0.00%

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



Run 3: Statistics of Indigo-1-32

Start at: 2018-02-16 17:54:10

End at: 2018-02-16 17:54:40

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 171.38 Mbit/s

95th percentile per-packet one-way delay: 136.969 ms

Loss rate: 0.00%

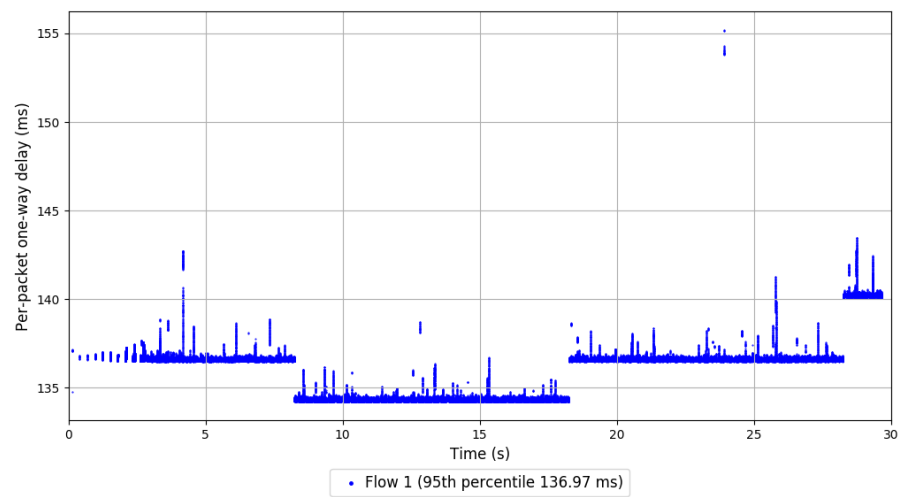
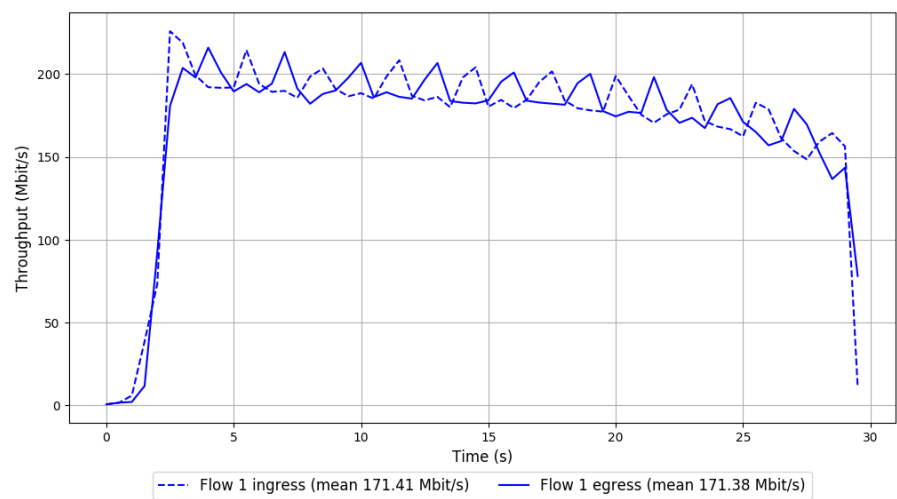
-- Flow 1:

Average throughput: 171.38 Mbit/s

95th percentile per-packet one-way delay: 136.969 ms

Loss rate: 0.00%

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



Run 4: Statistics of Indigo-1-32

Start at: 2018-02-16 18:10:11

End at: 2018-02-16 18:10:41

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 173.10 Mbit/s

95th percentile per-packet one-way delay: 135.557 ms

Loss rate: 0.00%

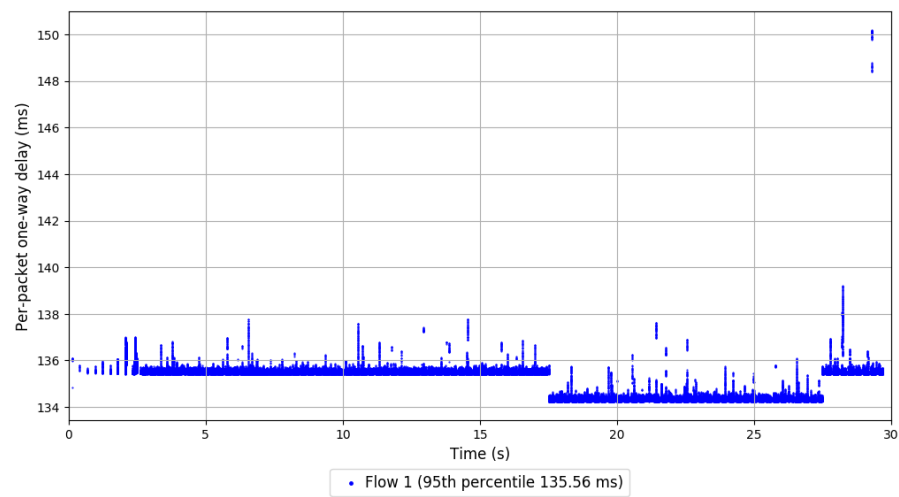
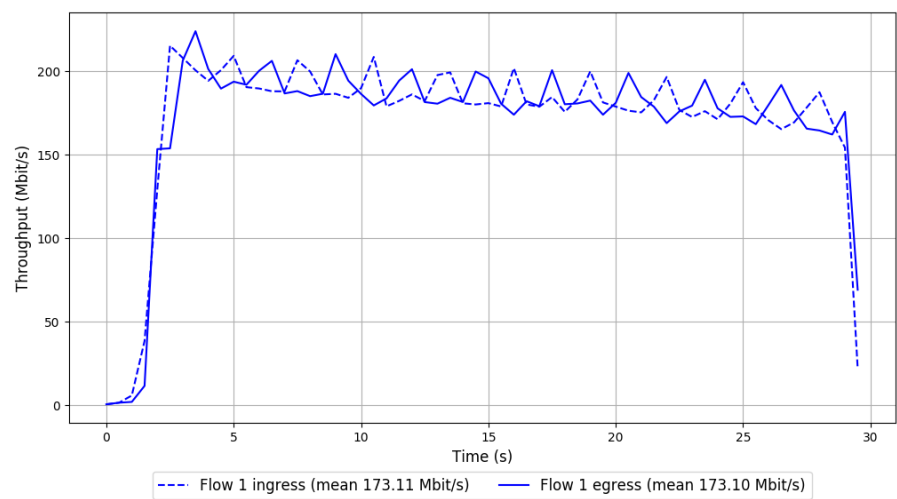
-- Flow 1:

Average throughput: 173.10 Mbit/s

95th percentile per-packet one-way delay: 135.557 ms

Loss rate: 0.00%

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



Run 5: Statistics of Indigo-1-32

Start at: 2018-02-16 18:26:07

End at: 2018-02-16 18:26:37

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 172.96 Mbit/s

95th percentile per-packet one-way delay: 136.537 ms

Loss rate: 0.00%

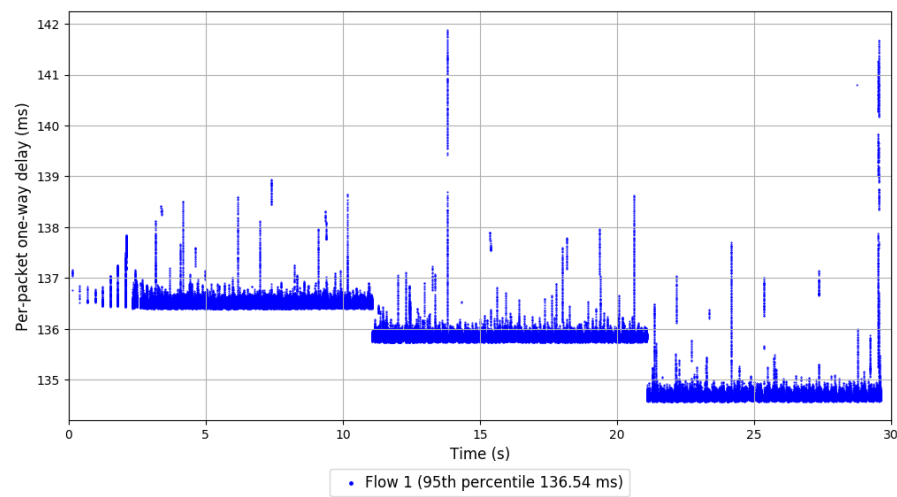
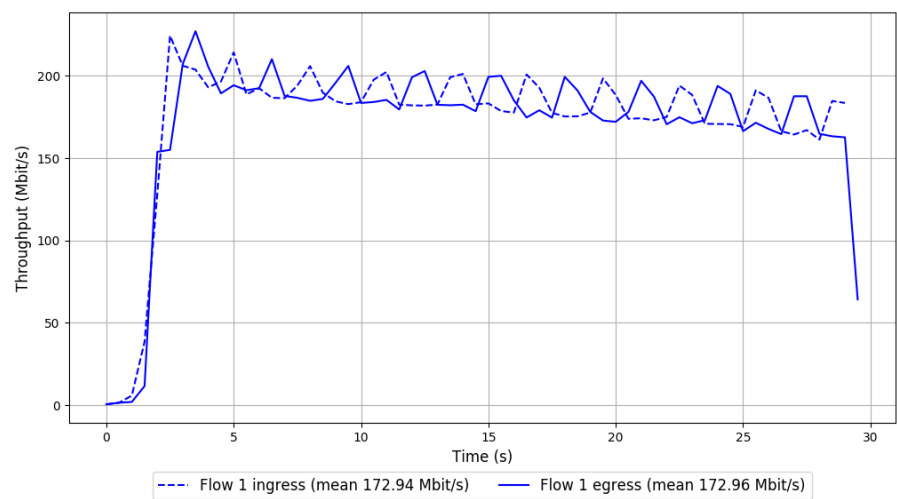
-- Flow 1:

Average throughput: 172.96 Mbit/s

95th percentile per-packet one-way delay: 136.537 ms

Loss rate: 0.00%

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



Run 6: Statistics of Indigo-1-32

Start at: 2018-02-16 18:42:13

End at: 2018-02-16 18:42:43

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 169.21 Mbit/s

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

Loss rate: 0.00%

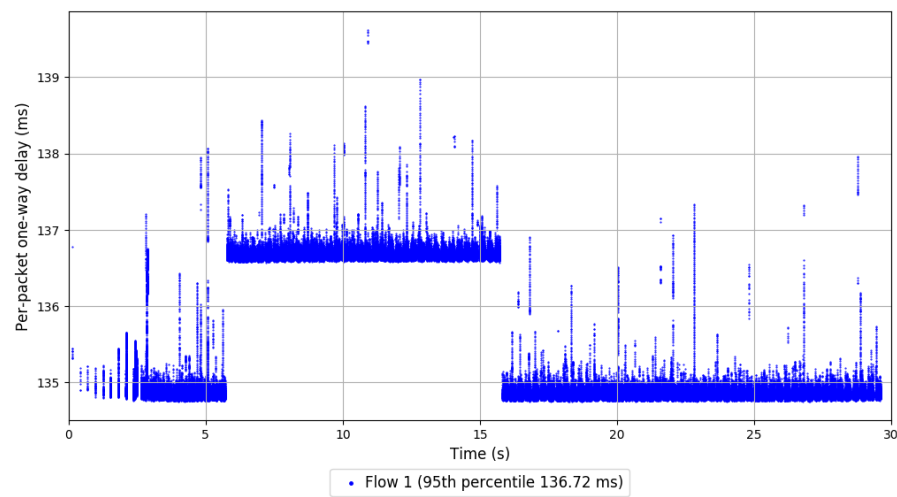
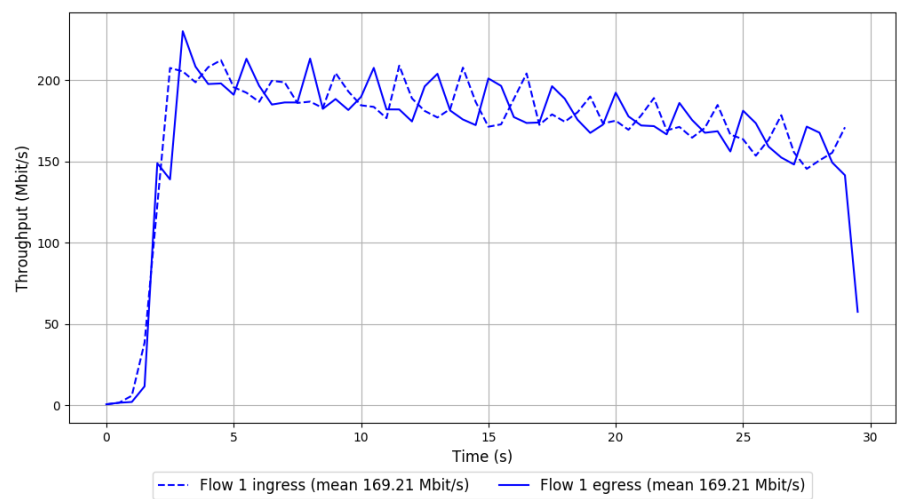
-- Flow 1:

Average throughput: 169.21 Mbit/s

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

Loss rate: 0.00%

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



Run 7: Statistics of Indigo-1-32

Start at: 2018-02-16 18:58:30

End at: 2018-02-16 18:59:00

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 176.12 Mbit/s

95th percentile per-packet one-way delay: 136.672 ms

Loss rate: 0.00%

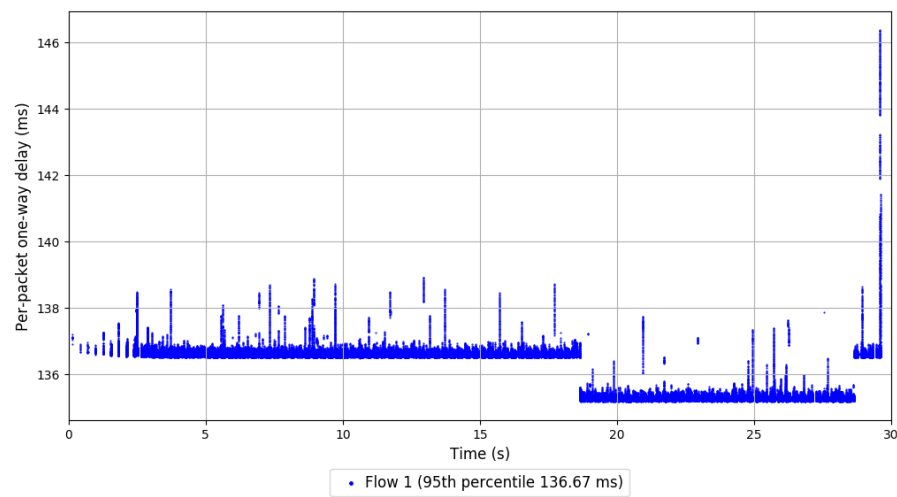
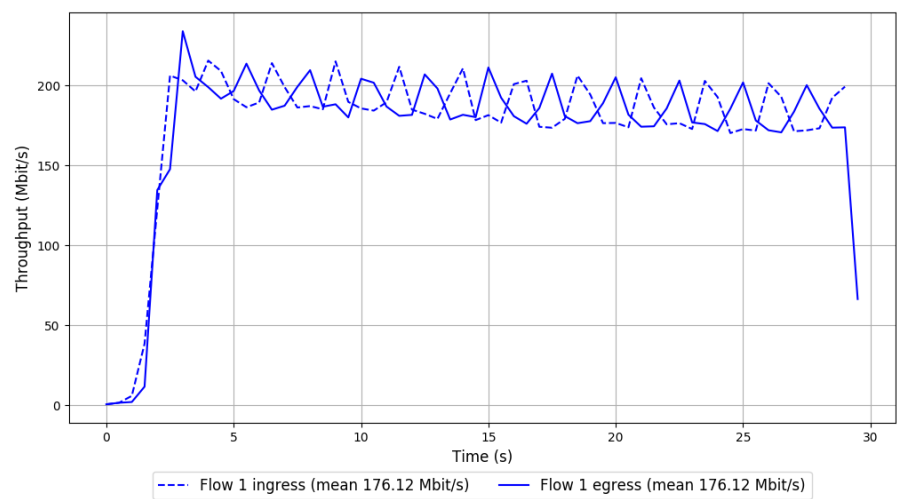
-- Flow 1:

Average throughput: 176.12 Mbit/s

95th percentile per-packet one-way delay: 136.672 ms

Loss rate: 0.00%

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



Run 8: Statistics of Indigo-1-32

Start at: 2018-02-16 19:15:05

End at: 2018-02-16 19:15:35

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 166.29 Mbit/s

95th percentile per-packet one-way delay: 136.636 ms

Loss rate: 0.00%

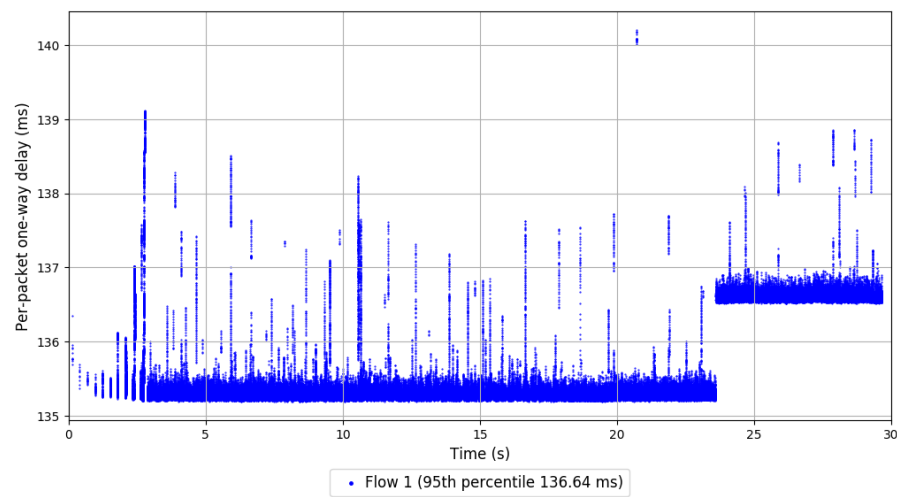
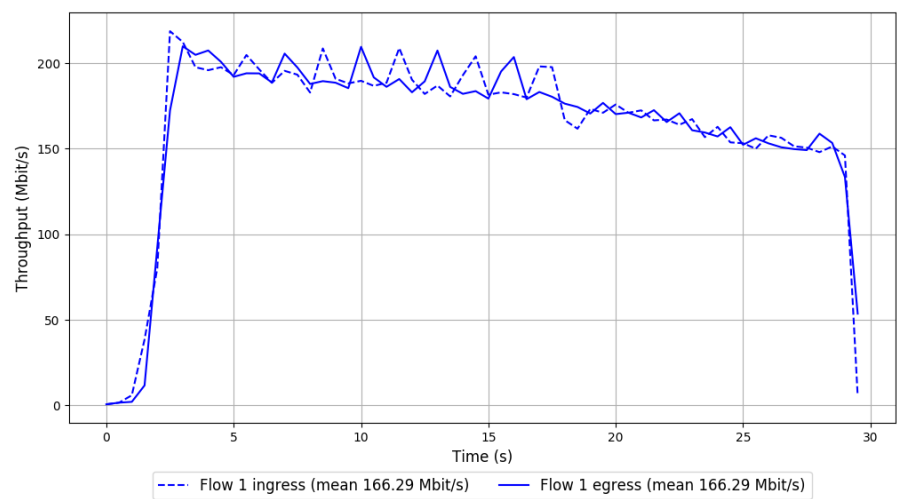
-- Flow 1:

Average throughput: 166.29 Mbit/s

95th percentile per-packet one-way delay: 136.636 ms

Loss rate: 0.00%

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



Run 9: Statistics of Indigo-1-32

Start at: 2018-02-16 19:31:29

End at: 2018-02-16 19:31:59

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 171.65 Mbit/s

95th percentile per-packet one-way delay: 136.448 ms

Loss rate: 0.00%

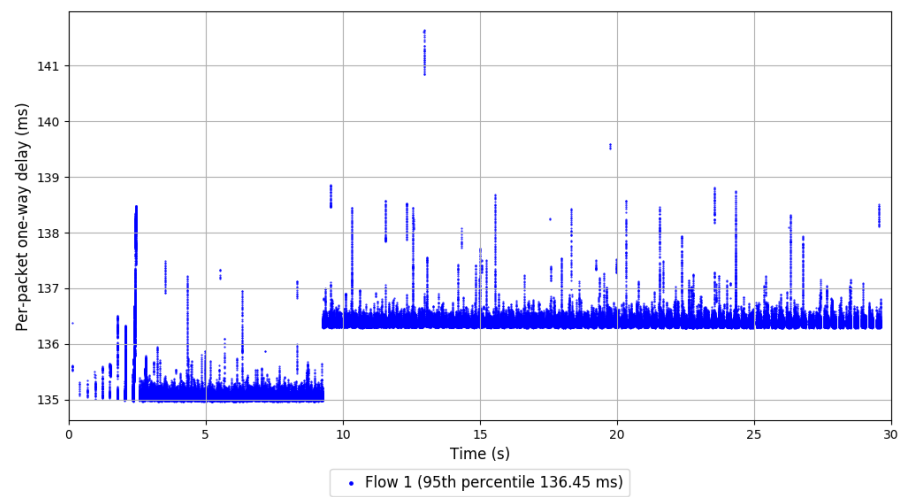
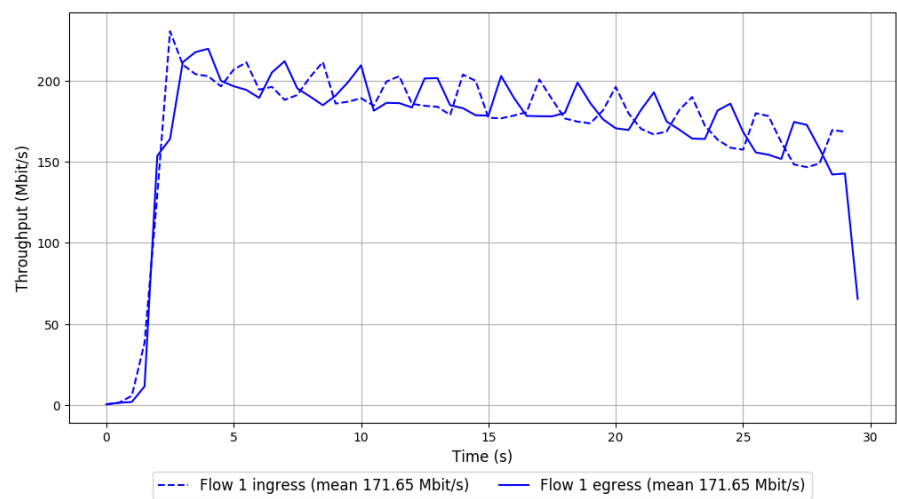
-- Flow 1:

Average throughput: 171.65 Mbit/s

95th percentile per-packet one-way delay: 136.448 ms

Loss rate: 0.00%

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



Run 10: Statistics of Indigo-1-32

Start at: 2018-02-16 19:47:50

End at: 2018-02-16 19:48:20

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 171.97 Mbit/s

95th percentile per-packet one-way delay: 136.292 ms

Loss rate: 0.00%

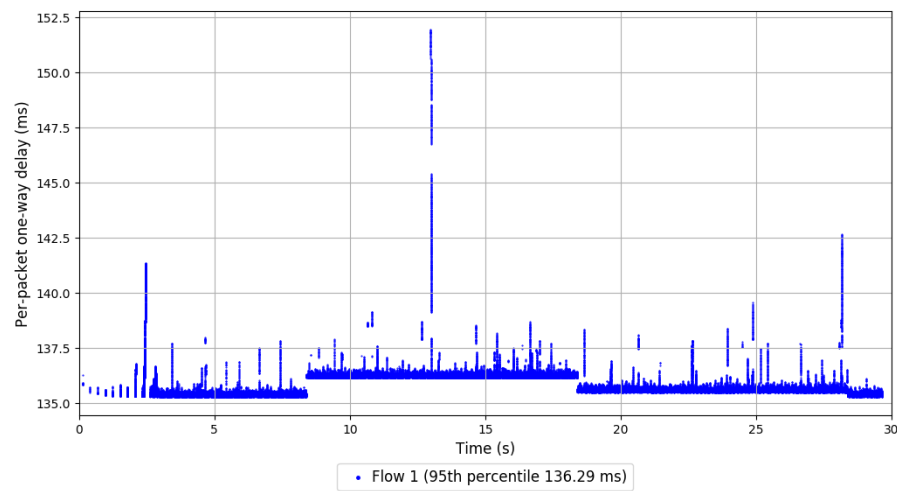
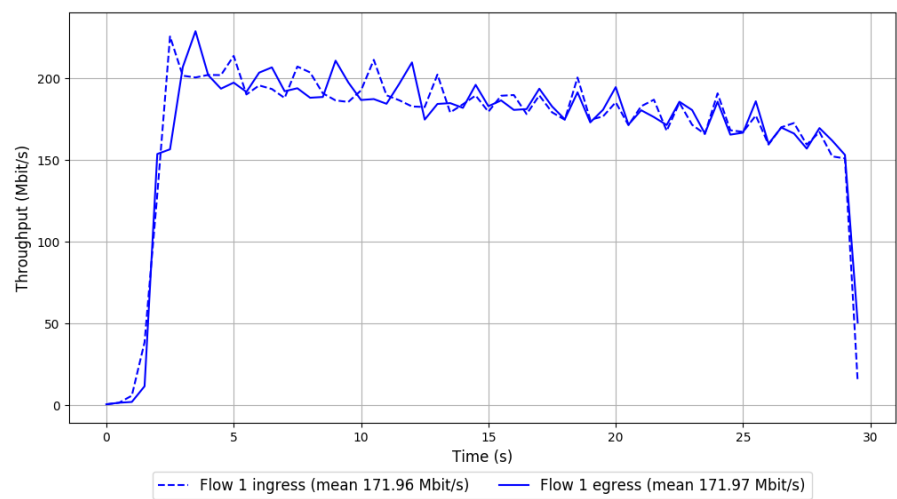
-- Flow 1:

Average throughput: 171.97 Mbit/s

95th percentile per-packet one-way delay: 136.292 ms

Loss rate: 0.00%

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



Run 1: Statistics of Vivace-latency

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

End at: 2018-02-16 17:35:46

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 353.69 Mbit/s

95th percentile per-packet one-way delay: 139.246 ms

Loss rate: 0.00%

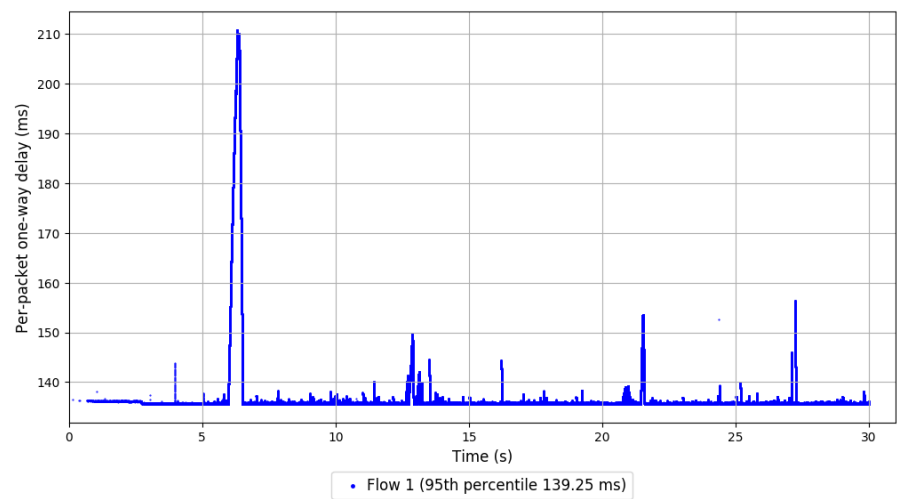
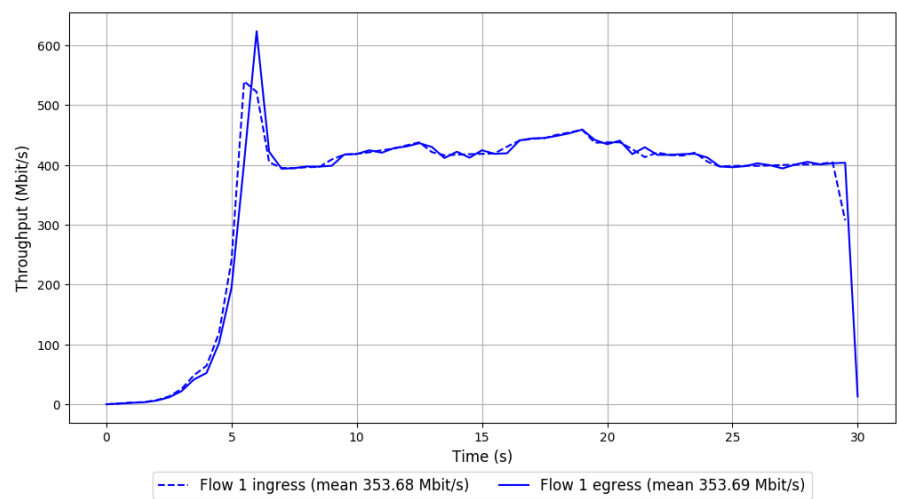
-- Flow 1:

Average throughput: 353.69 Mbit/s

95th percentile per-packet one-way delay: 139.246 ms

Loss rate: 0.00%

Run 1: Report of Vivace-latency — Data Link



Run 2: Statistics of Vivace-latency

Start at: 2018-02-16 17:51:14

End at: 2018-02-16 17:51:44

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 374.46 Mbit/s

95th percentile per-packet one-way delay: 144.875 ms

Loss rate: 0.00%

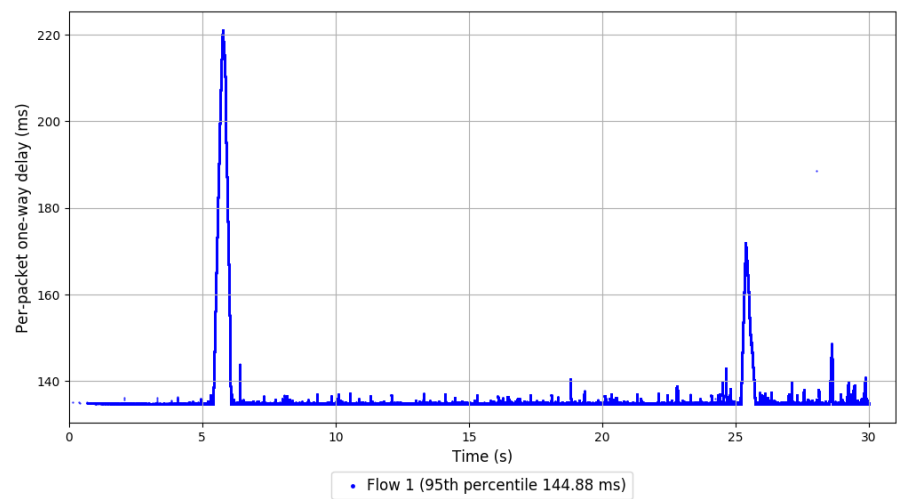
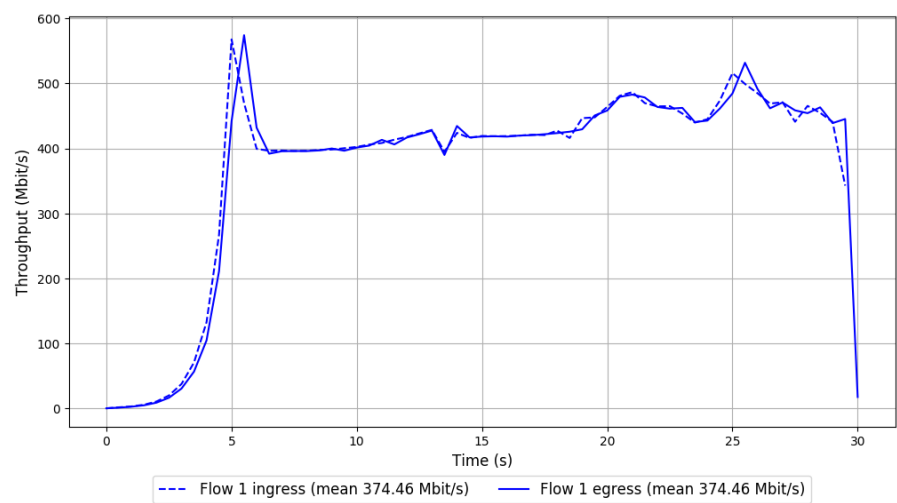
-- Flow 1:

Average throughput: 374.46 Mbit/s

95th percentile per-packet one-way delay: 144.875 ms

Loss rate: 0.00%

Run 2: Report of Vivace-latency — Data Link



Run 3: Statistics of Vivace-latency

Start at: 2018-02-16 18:07:24

End at: 2018-02-16 18:07:54

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 363.19 Mbit/s

95th percentile per-packet one-way delay: 147.531 ms

Loss rate: 0.00%

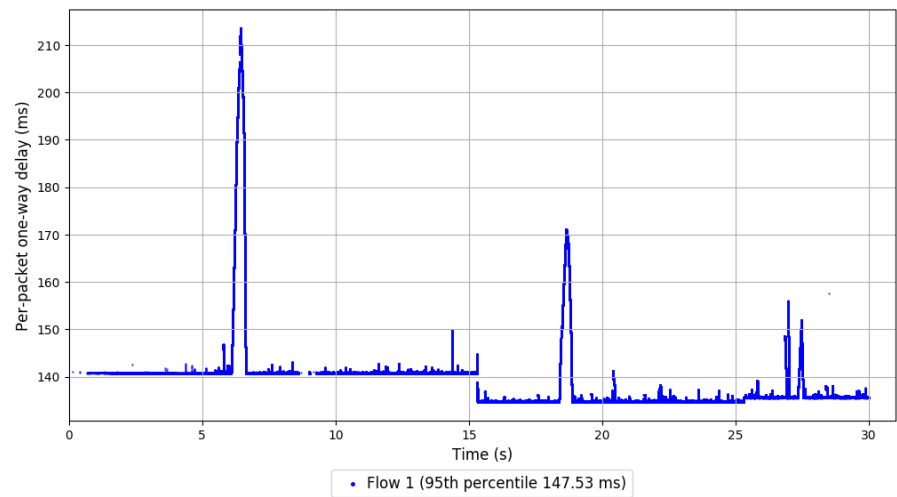
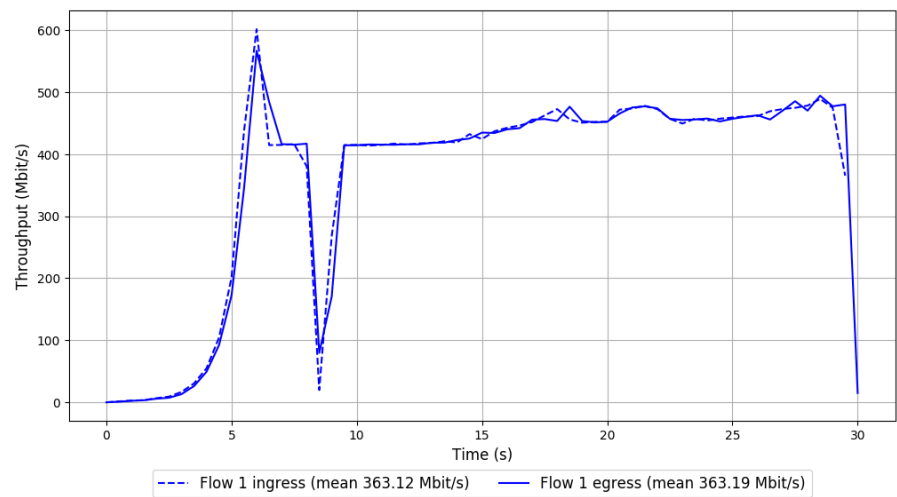
-- Flow 1:

Average throughput: 363.19 Mbit/s

95th percentile per-packet one-way delay: 147.531 ms

Loss rate: 0.00%

Run 3: Report of Vivace-latency — Data Link



Run 4: Statistics of Vivace-latency

Start at: 2018-02-16 18:23:22

End at: 2018-02-16 18:23:52

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 336.90 Mbit/s

95th percentile per-packet one-way delay: 146.735 ms

Loss rate: 0.06%

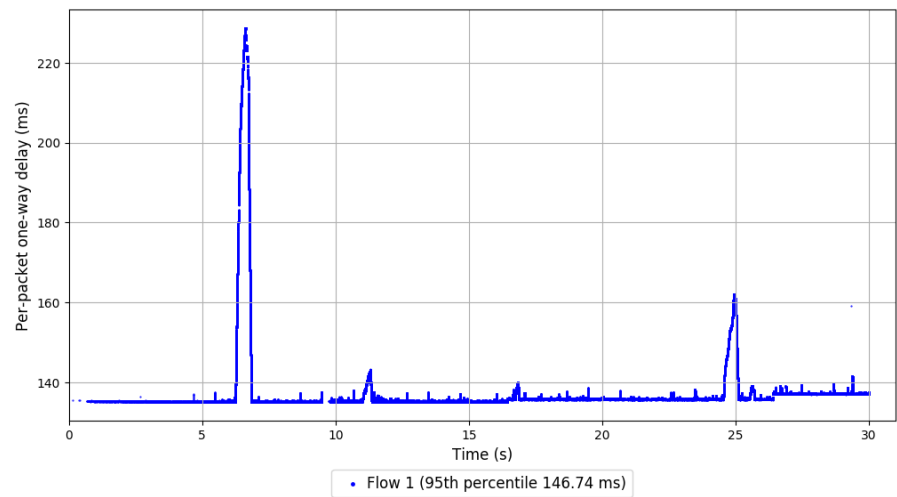
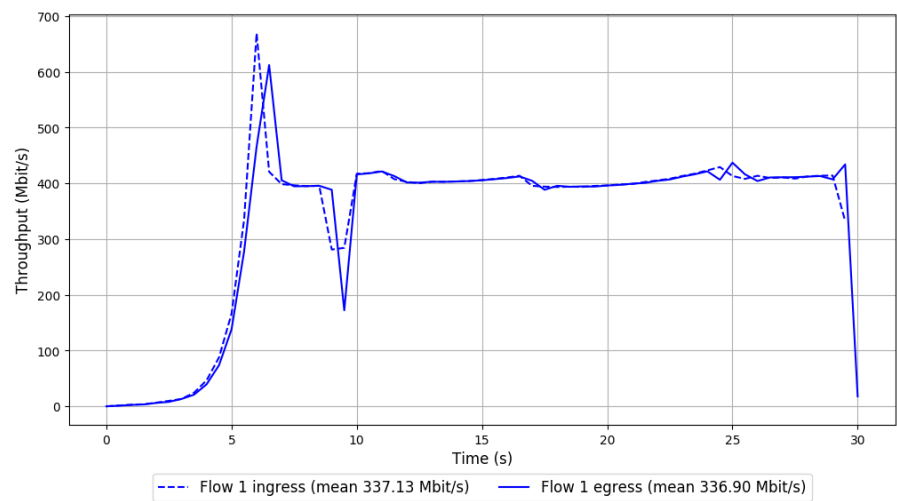
-- Flow 1:

Average throughput: 336.90 Mbit/s

95th percentile per-packet one-way delay: 146.735 ms

Loss rate: 0.06%

Run 4: Report of Vivace-latency — Data Link



Run 5: Statistics of Vivace-latency

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

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

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 258.08 Mbit/s

95th percentile per-packet one-way delay: 135.095 ms

Loss rate: 0.00%

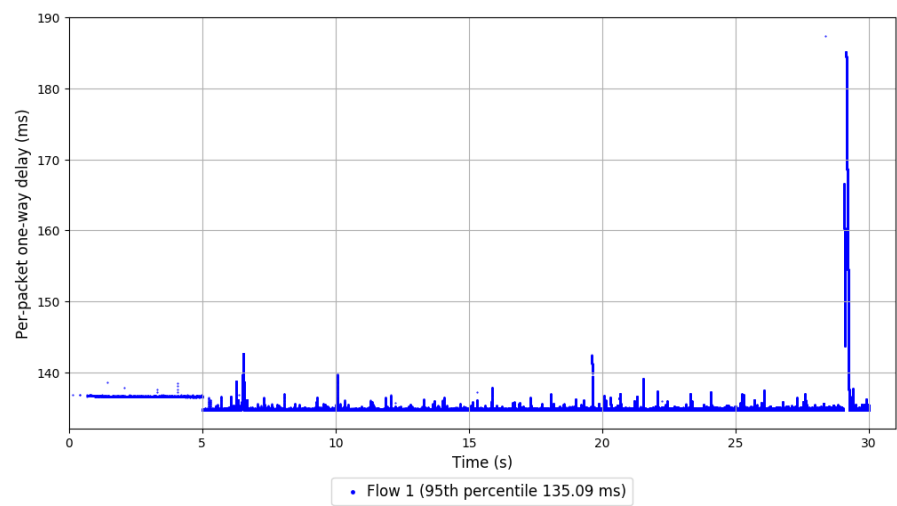
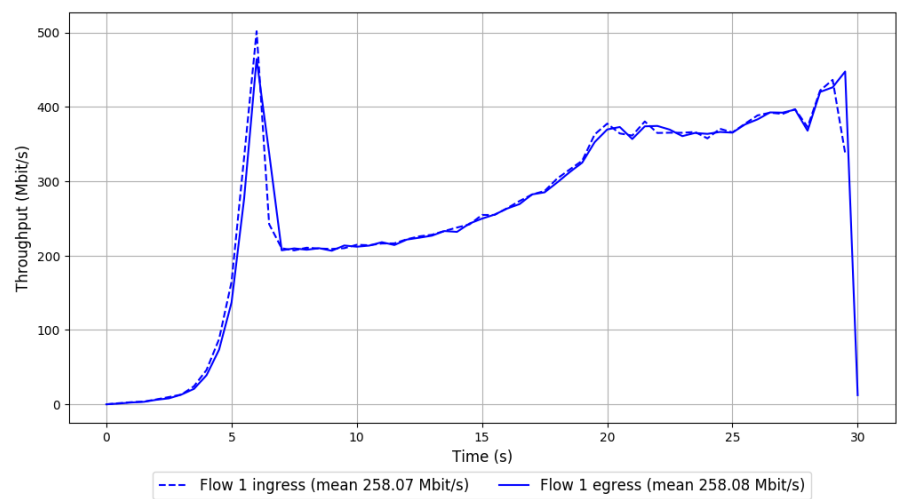
-- Flow 1:

Average throughput: 258.08 Mbit/s

95th percentile per-packet one-way delay: 135.095 ms

Loss rate: 0.00%

Run 5: Report of Vivace-latency — Data Link



Run 6: Statistics of Vivace-latency

Start at: 2018-02-16 18:55:34

End at: 2018-02-16 18:56:04

Below is generated by plot.py at 2018-02-16 22:27:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 394.34 Mbit/s

95th percentile per-packet one-way delay: 141.431 ms

Loss rate: 0.00%

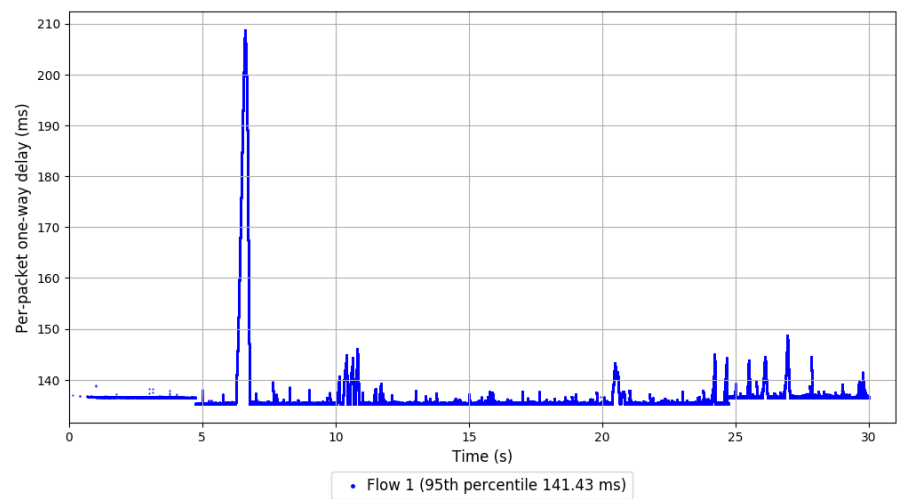
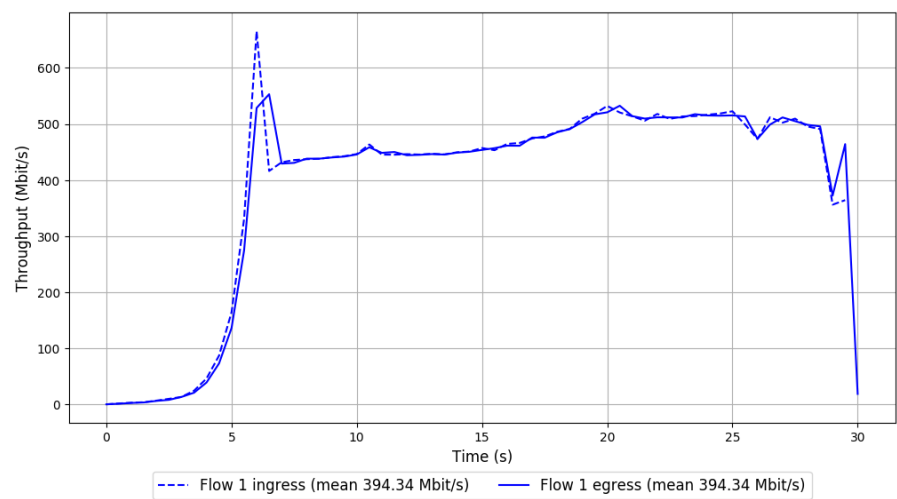
-- Flow 1:

Average throughput: 394.34 Mbit/s

95th percentile per-packet one-way delay: 141.431 ms

Loss rate: 0.00%

Run 6: Report of Vivace-latency — Data Link



Run 7: Statistics of Vivace-latency

Start at: 2018-02-16 19:12:06

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

Below is generated by plot.py at 2018-02-16 22:27:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 364.08 Mbit/s

95th percentile per-packet one-way delay: 159.728 ms

Loss rate: 0.07%

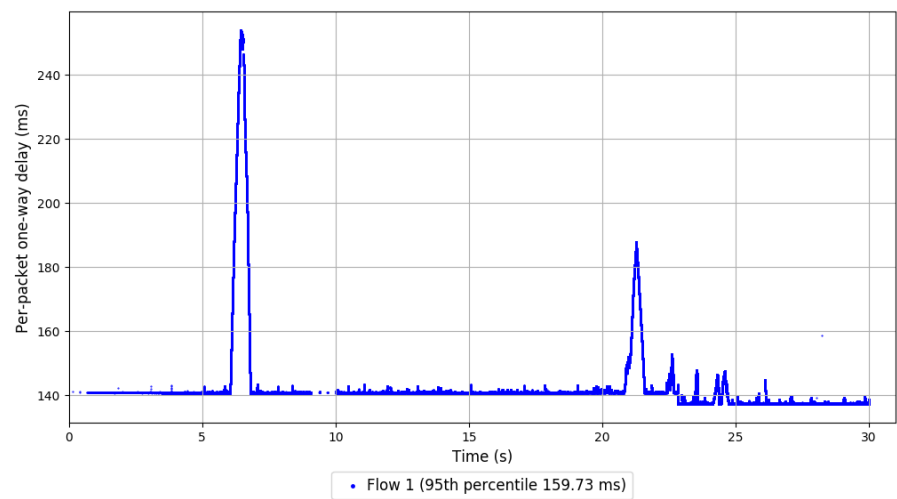
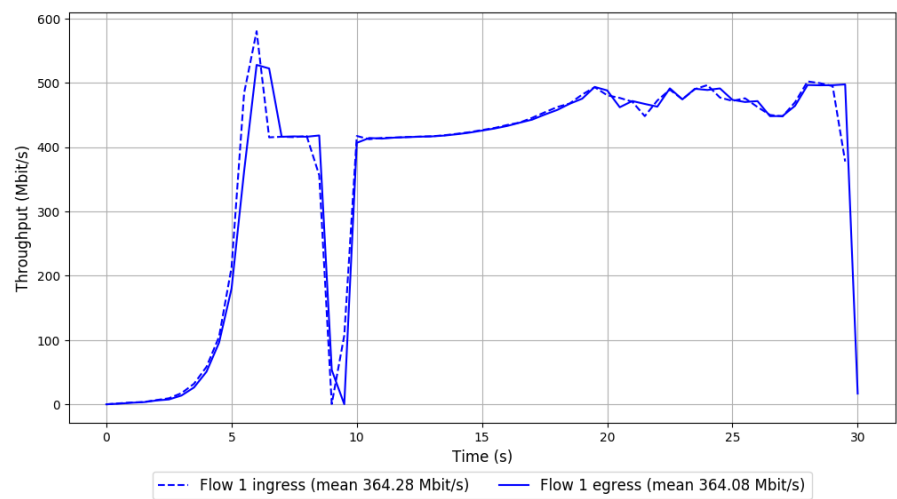
-- Flow 1:

Average throughput: 364.08 Mbit/s

95th percentile per-packet one-way delay: 159.728 ms

Loss rate: 0.07%

Run 7: Report of Vivace-latency — Data Link



Run 8: Statistics of Vivace-latency

Start at: 2018-02-16 19:28:39

End at: 2018-02-16 19:29:09

Below is generated by plot.py at 2018-02-16 22:28:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 368.58 Mbit/s

95th percentile per-packet one-way delay: 137.929 ms

Loss rate: 0.00%

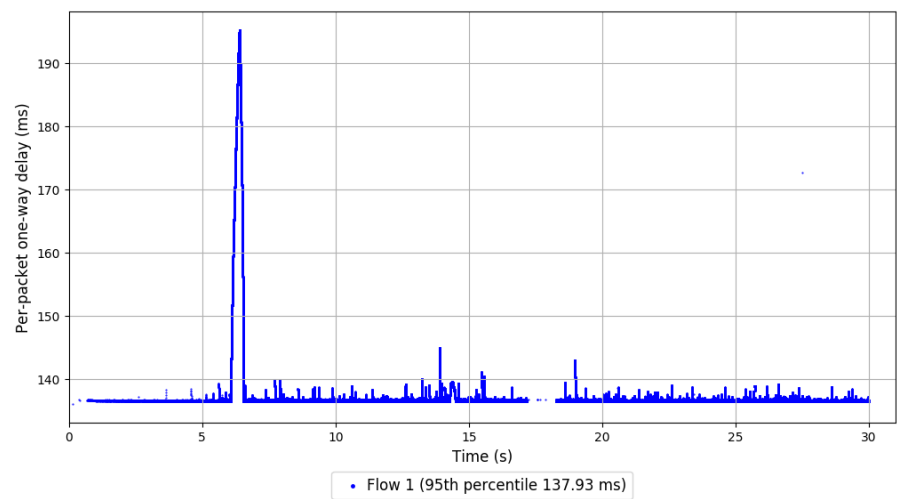
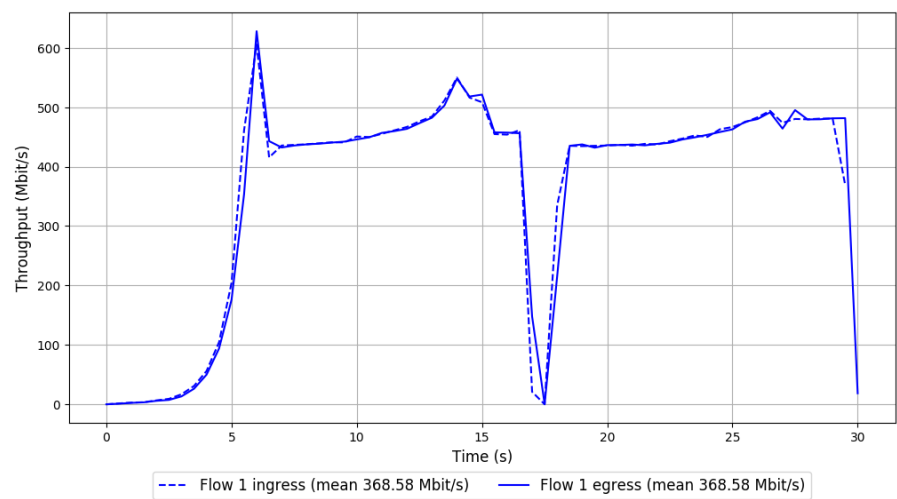
-- Flow 1:

Average throughput: 368.58 Mbit/s

95th percentile per-packet one-way delay: 137.929 ms

Loss rate: 0.00%

Run 8: Report of Vivace-latency — Data Link



Run 9: Statistics of Vivace-latency

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

End at: 2018-02-16 19:45:32

Below is generated by plot.py at 2018-02-16 22:28:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 379.15 Mbit/s

95th percentile per-packet one-way delay: 137.101 ms

Loss rate: 0.00%

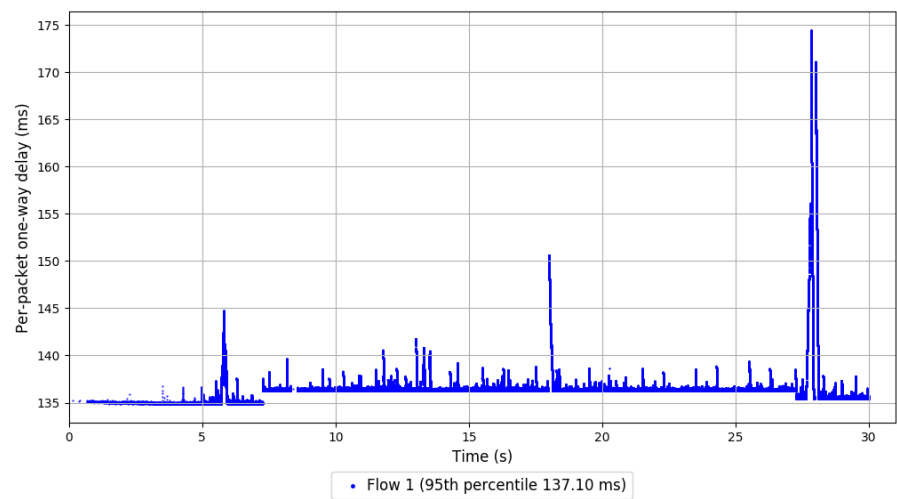
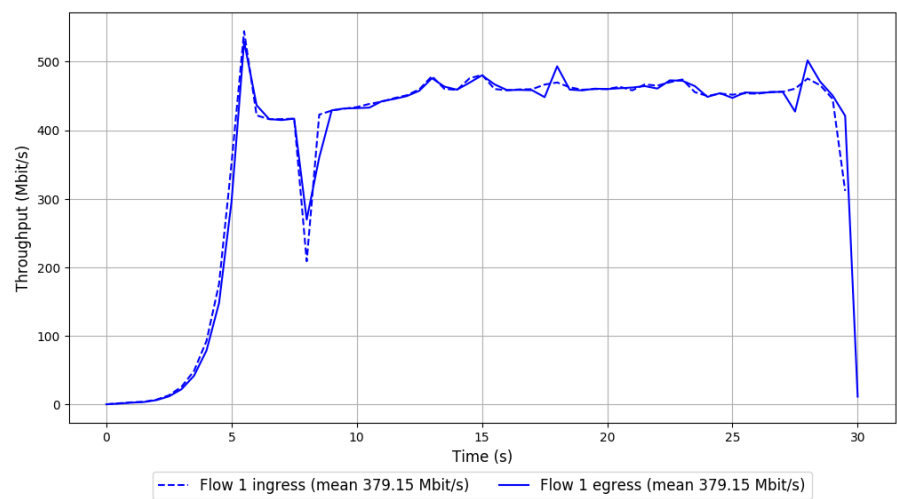
-- Flow 1:

Average throughput: 379.15 Mbit/s

95th percentile per-packet one-way delay: 137.101 ms

Loss rate: 0.00%

Run 9: Report of Vivace-latency — Data Link



Run 10: Statistics of Vivace-latency

Start at: 2018-02-16 20:01:11

End at: 2018-02-16 20:01:41

Below is generated by plot.py at 2018-02-16 22:28:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 279.90 Mbit/s

95th percentile per-packet one-way delay: 146.524 ms

Loss rate: 0.00%

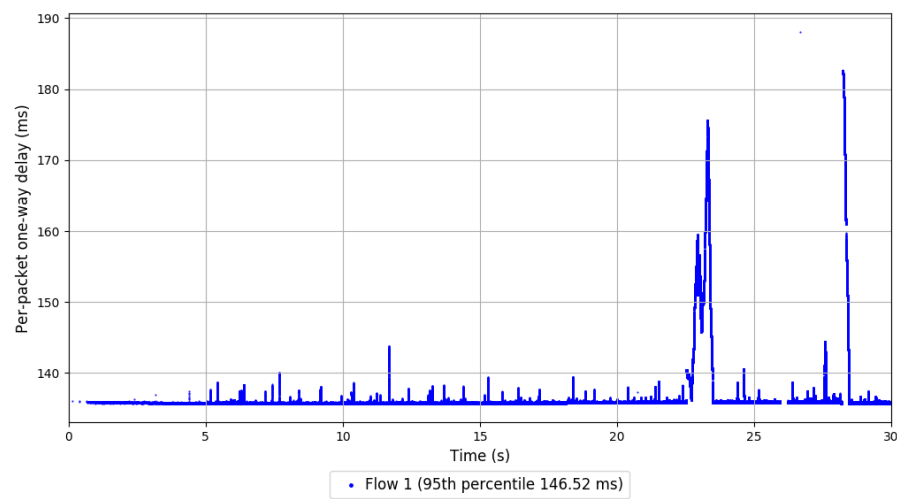
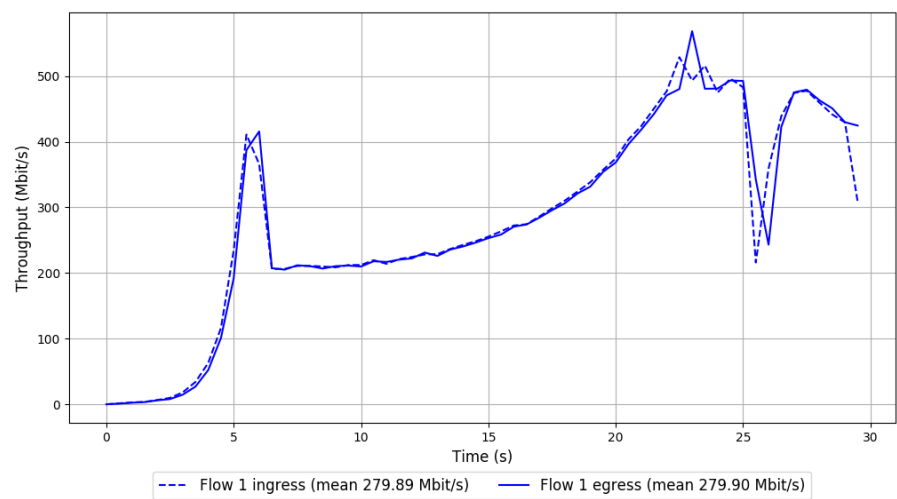
-- Flow 1:

Average throughput: 279.90 Mbit/s

95th percentile per-packet one-way delay: 146.524 ms

Loss rate: 0.00%

Run 10: Report of Vivace-latency — Data Link

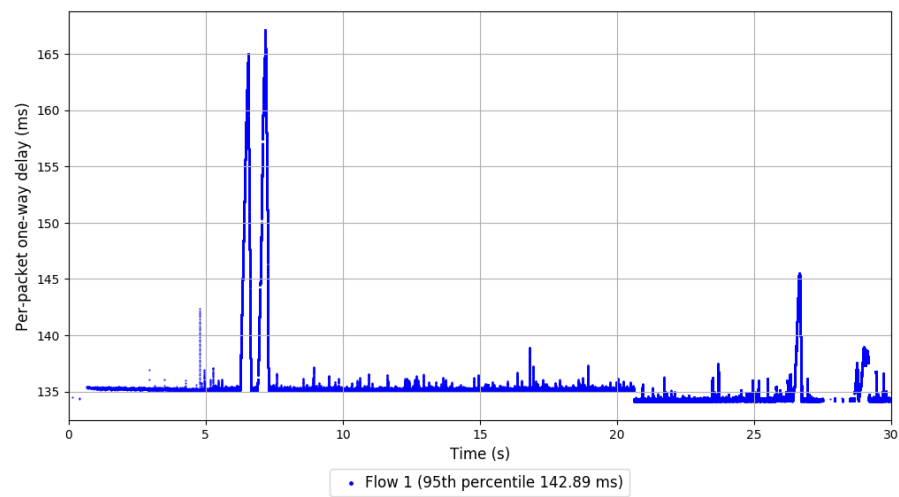
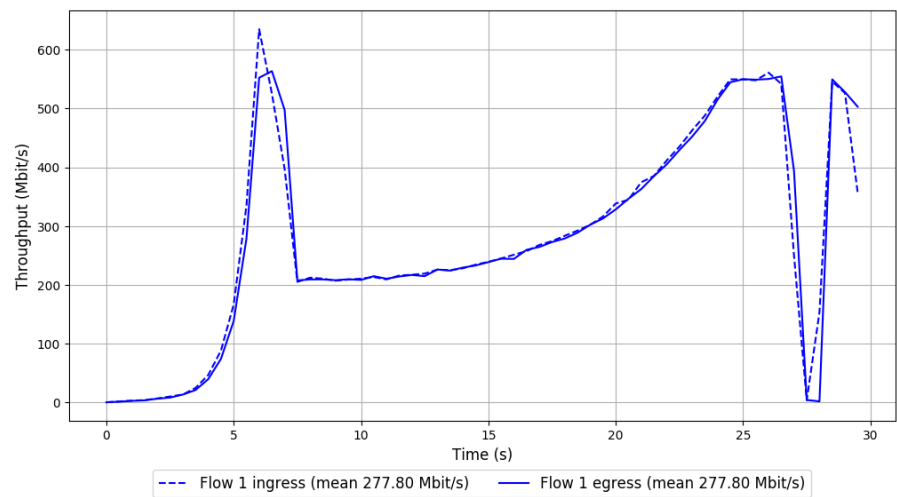


```
Run 1: Statistics of Vivace-loss

Start at: 2018-02-16 17:26:18
End at: 2018-02-16 17:26:48

# Below is generated by plot.py at 2018-02-16 22:28:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 277.80 Mbit/s
95th percentile per-packet one-way delay: 142.892 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 277.80 Mbit/s
95th percentile per-packet one-way delay: 142.892 ms
Loss rate: 0.00%
```

Run 1: Report of Vivace-loss — Data Link



Run 2: Statistics of Vivace-loss

Start at: 2018-02-16 17:42:09

End at: 2018-02-16 17:42:40

Below is generated by plot.py at 2018-02-16 22:32:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 329.04 Mbit/s

95th percentile per-packet one-way delay: 267.828 ms

Loss rate: 4.72%

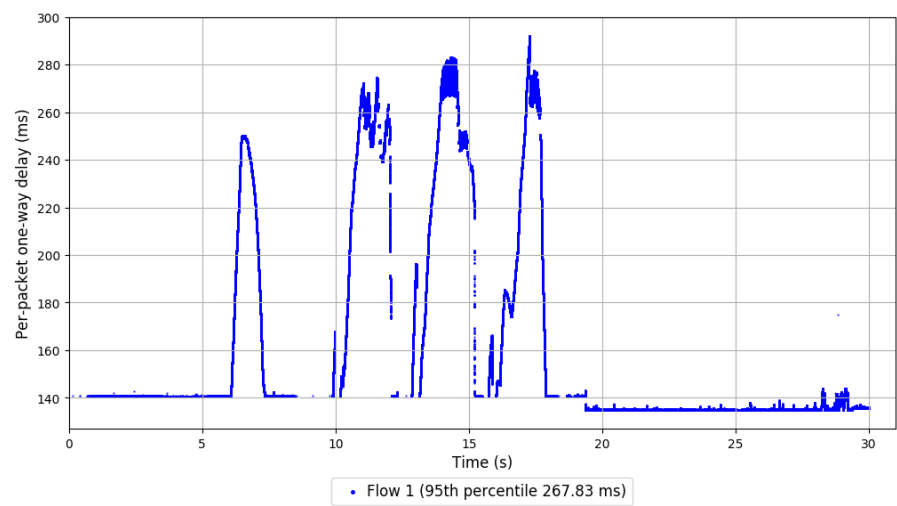
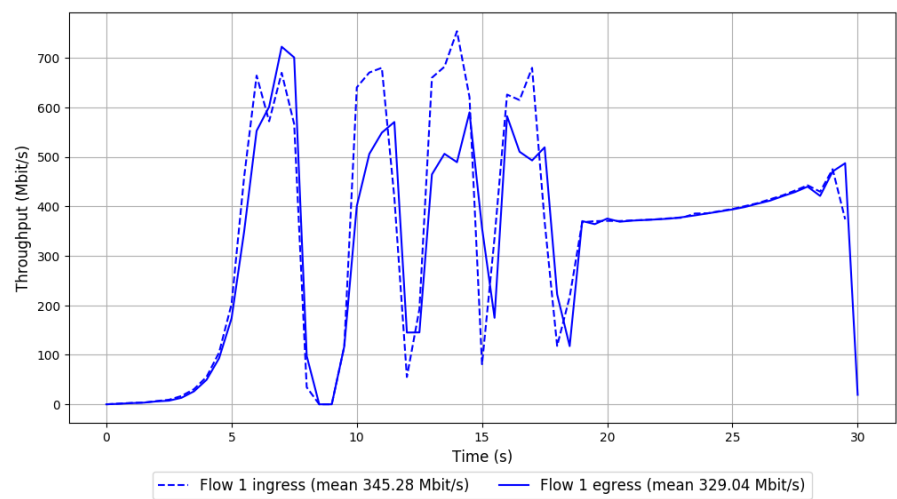
-- Flow 1:

Average throughput: 329.04 Mbit/s

95th percentile per-packet one-way delay: 267.828 ms

Loss rate: 4.72%

Run 2: Report of Vivace-loss — Data Link



Run 3: Statistics of Vivace-loss

Start at: 2018-02-16 17:58:42

End at: 2018-02-16 17:59:12

Below is generated by plot.py at 2018-02-16 22:32:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 226.76 Mbit/s

95th percentile per-packet one-way delay: 206.743 ms

Loss rate: 0.09%

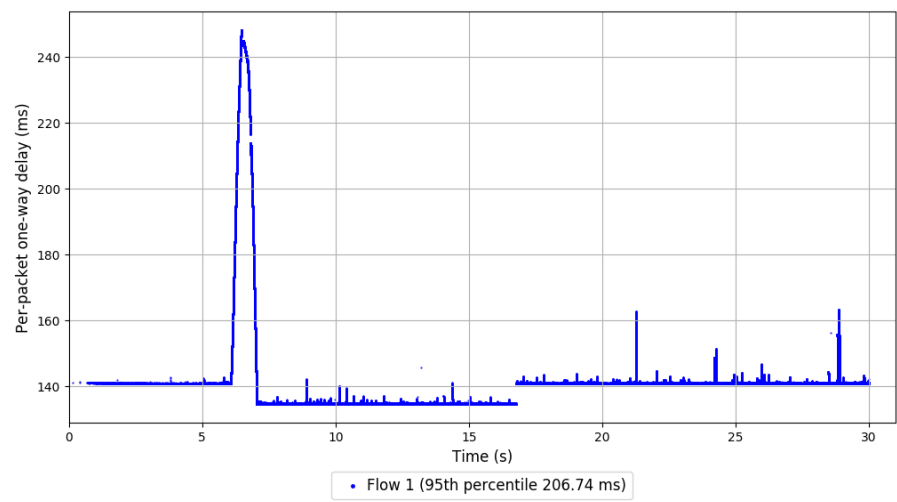
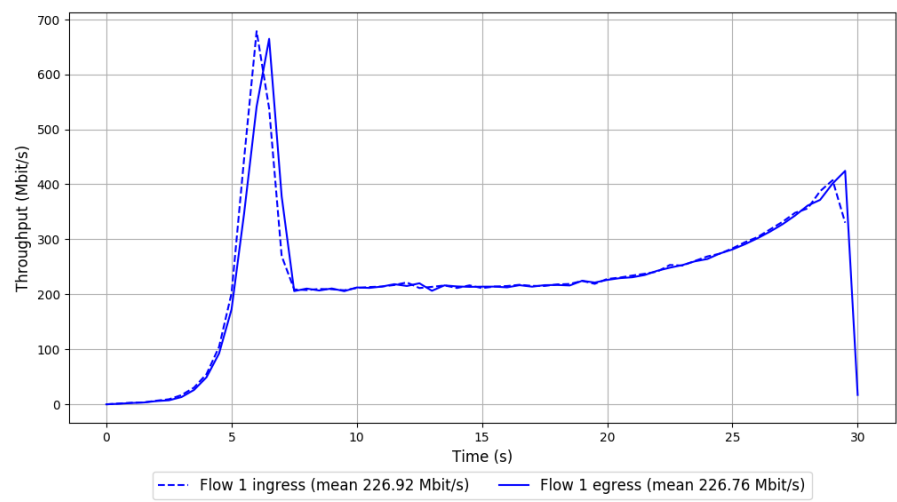
-- Flow 1:

Average throughput: 226.76 Mbit/s

95th percentile per-packet one-way delay: 206.743 ms

Loss rate: 0.09%

Run 3: Report of Vivace-loss — Data Link



Run 4: Statistics of Vivace-loss

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

End at: 2018-02-16 18:14:48

Below is generated by plot.py at 2018-02-16 22:32:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 296.51 Mbit/s

95th percentile per-packet one-way delay: 140.388 ms

Loss rate: 0.00%

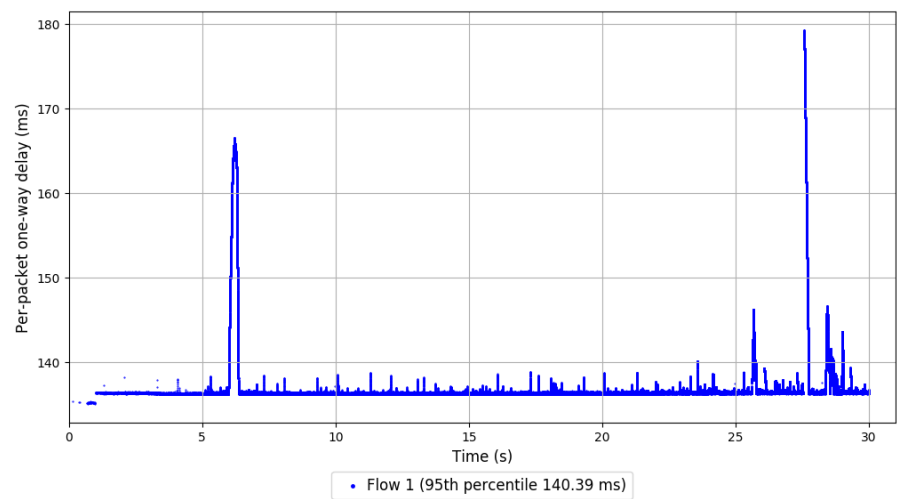
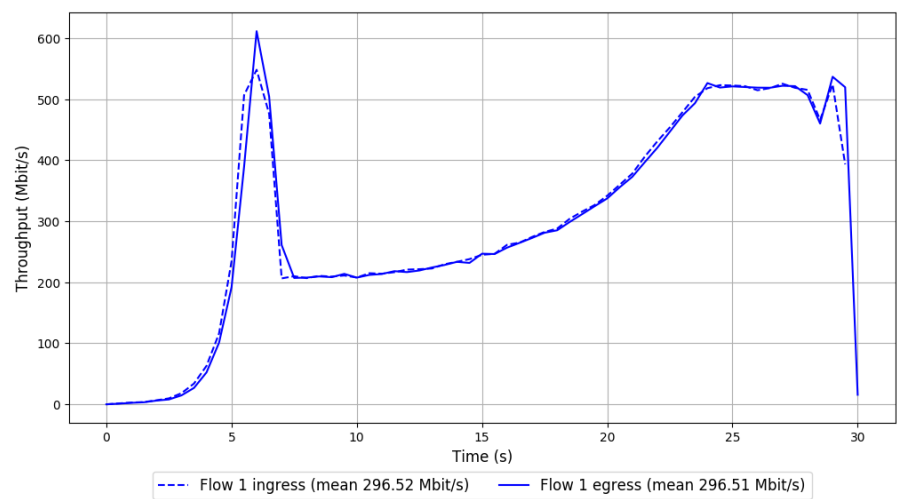
-- Flow 1:

Average throughput: 296.51 Mbit/s

95th percentile per-packet one-way delay: 140.388 ms

Loss rate: 0.00%

Run 4: Report of Vivace-loss — Data Link



Run 5: Statistics of Vivace-loss

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

End at: 2018-02-16 18:30:47

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 352.48 Mbit/s

95th percentile per-packet one-way delay: 136.708 ms

Loss rate: 0.00%

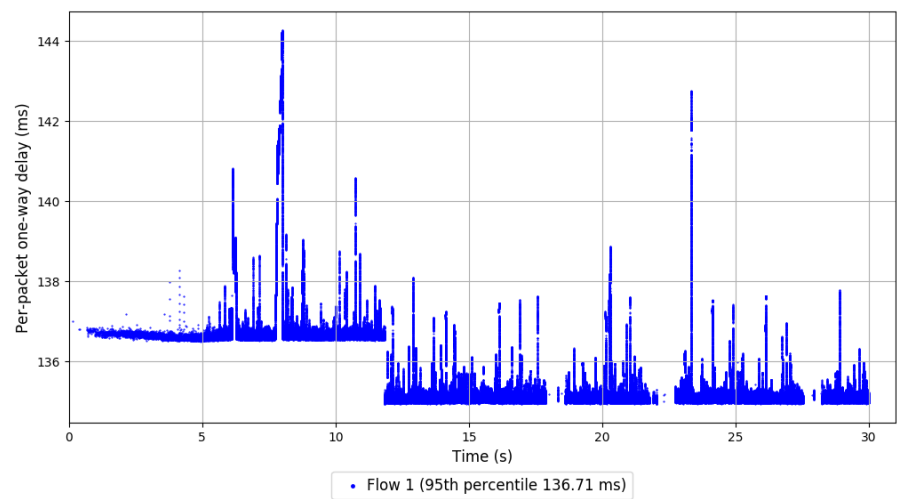
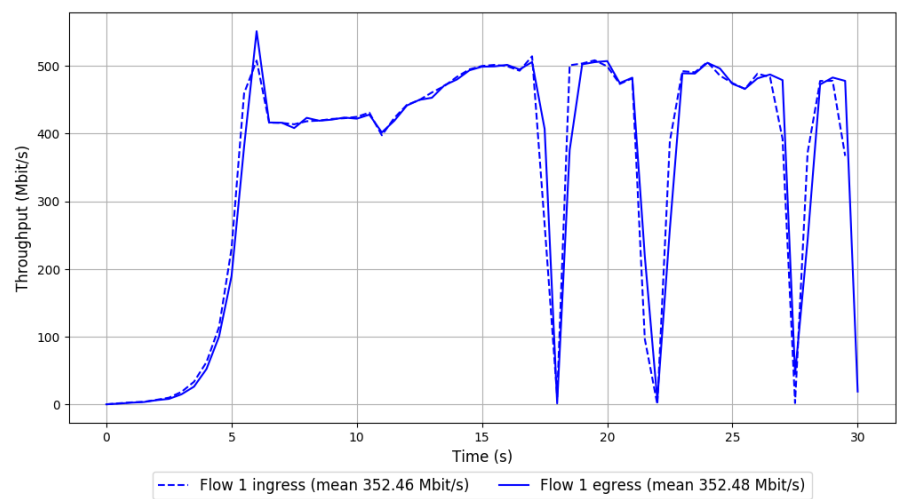
-- Flow 1:

Average throughput: 352.48 Mbit/s

95th percentile per-packet one-way delay: 136.708 ms

Loss rate: 0.00%

Run 5: Report of Vivace-loss — Data Link



Run 6: Statistics of Vivace-loss

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

End at: 2018-02-16 18:46:51

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 330.73 Mbit/s

95th percentile per-packet one-way delay: 136.853 ms

Loss rate: 0.00%

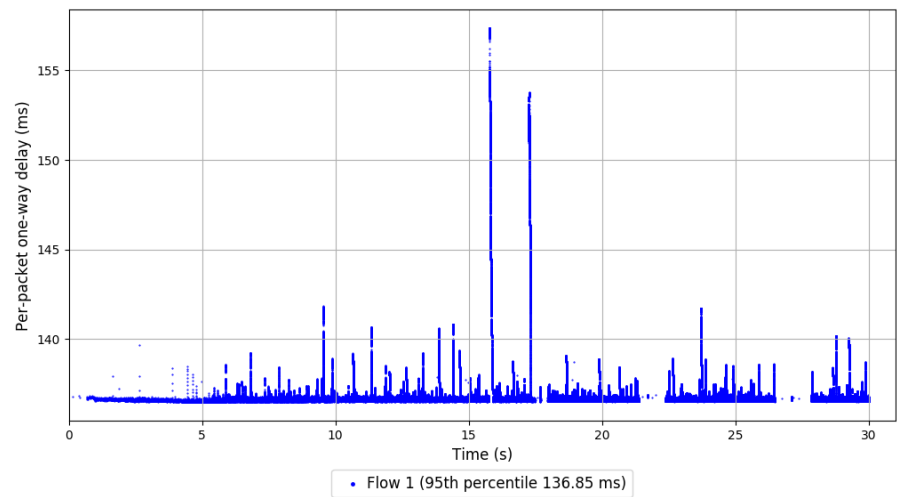
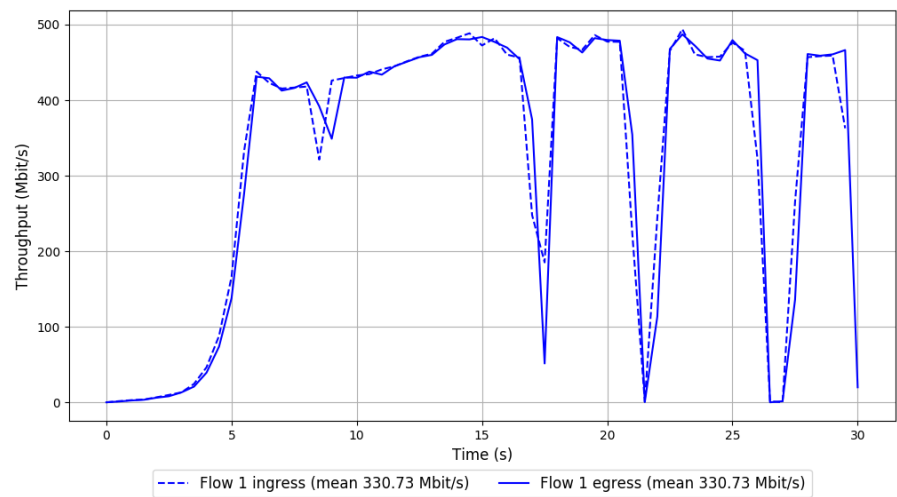
-- Flow 1:

Average throughput: 330.73 Mbit/s

95th percentile per-packet one-way delay: 136.853 ms

Loss rate: 0.00%

Run 6: Report of Vivace-loss — Data Link



Run 7: Statistics of Vivace-loss

Start at: 2018-02-16 19:02:37

End at: 2018-02-16 19:03:07

Below is generated by plot.py at 2018-02-16 22:33:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 343.23 Mbit/s

95th percentile per-packet one-way delay: 217.326 ms

Loss rate: 0.24%

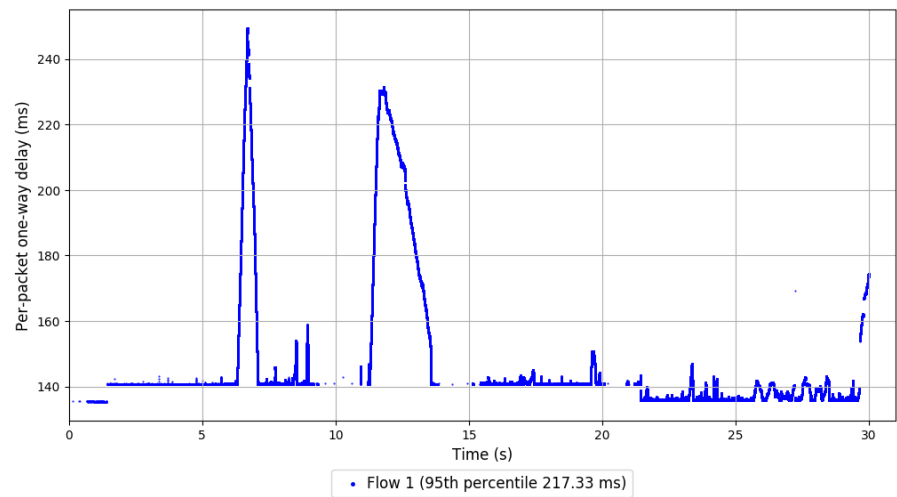
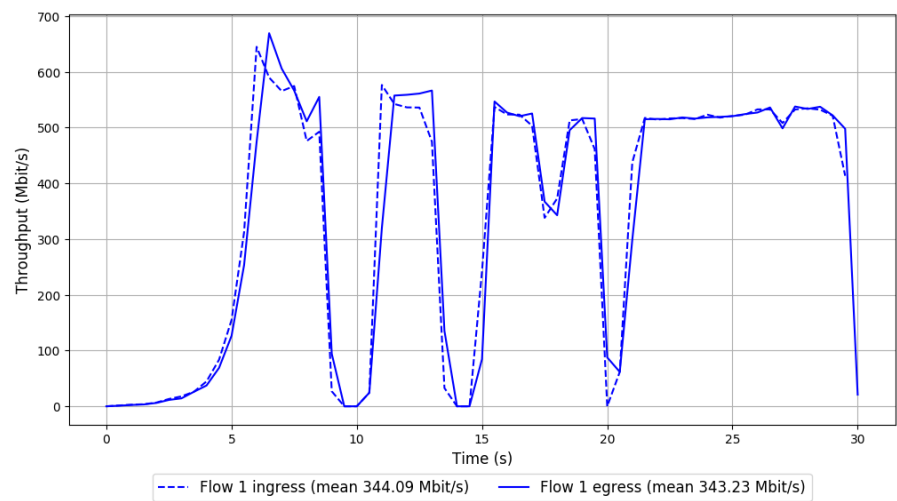
-- Flow 1:

Average throughput: 343.23 Mbit/s

95th percentile per-packet one-way delay: 217.326 ms

Loss rate: 0.24%

Run 7: Report of Vivace-loss — Data Link



Run 8: Statistics of Vivace-loss

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

End at: 2018-02-16 19:19:41

Below is generated by plot.py at 2018-02-16 22:34:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 357.43 Mbit/s

95th percentile per-packet one-way delay: 164.100 ms

Loss rate: 0.00%

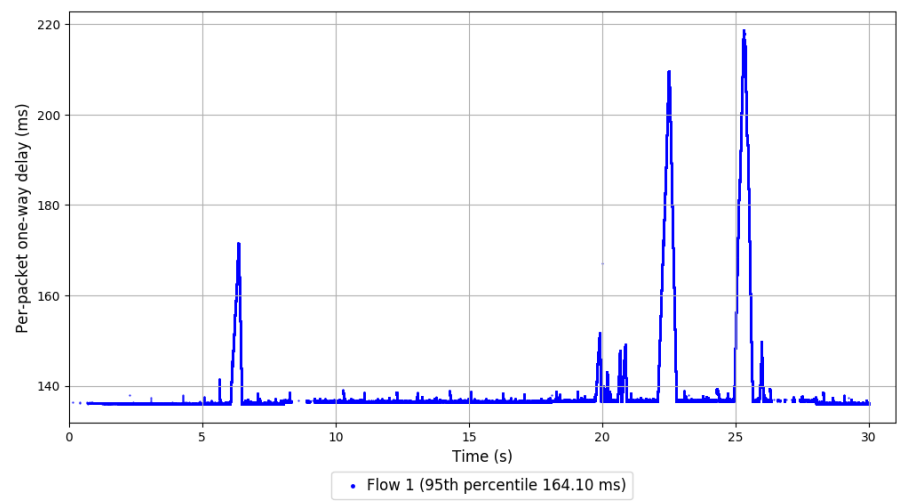
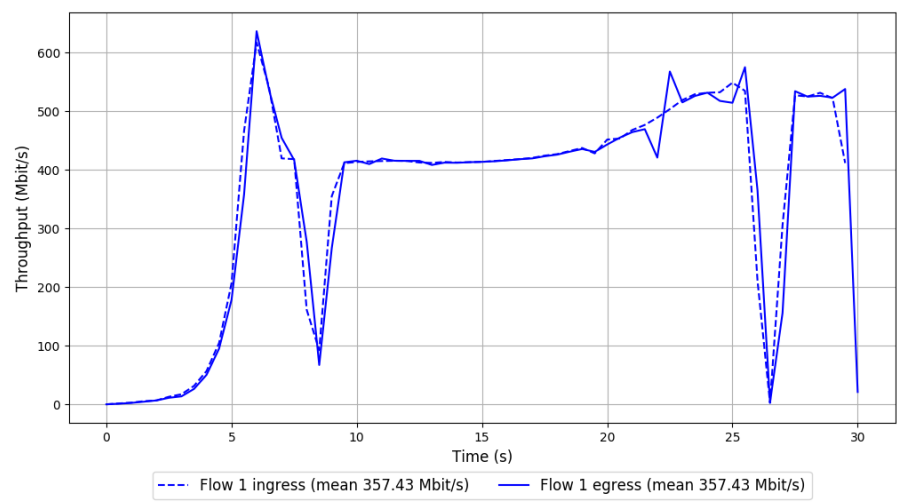
-- Flow 1:

Average throughput: 357.43 Mbit/s

95th percentile per-packet one-way delay: 164.100 ms

Loss rate: 0.00%

Run 8: Report of Vivace-loss — Data Link



Run 9: Statistics of Vivace-loss

Start at: 2018-02-16 19:35:37

End at: 2018-02-16 19:36:07

Below is generated by plot.py at 2018-02-16 22:34:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 353.87 Mbit/s

95th percentile per-packet one-way delay: 136.672 ms

Loss rate: 0.00%

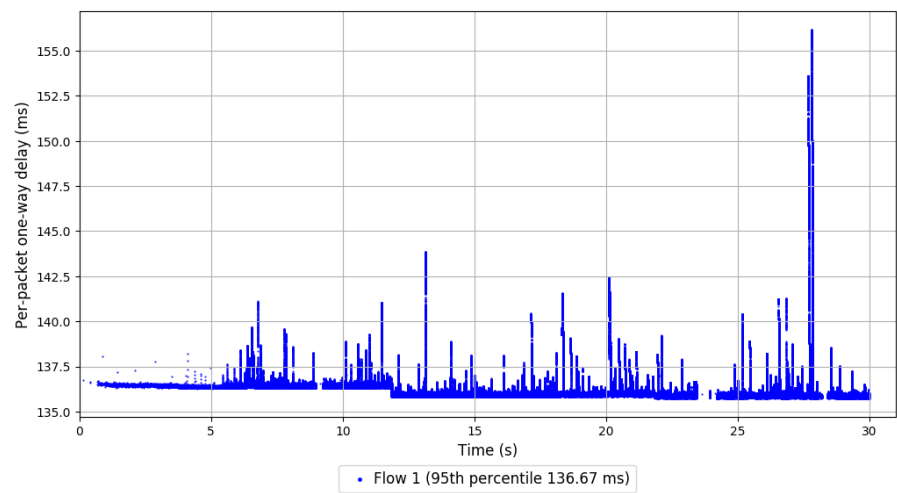
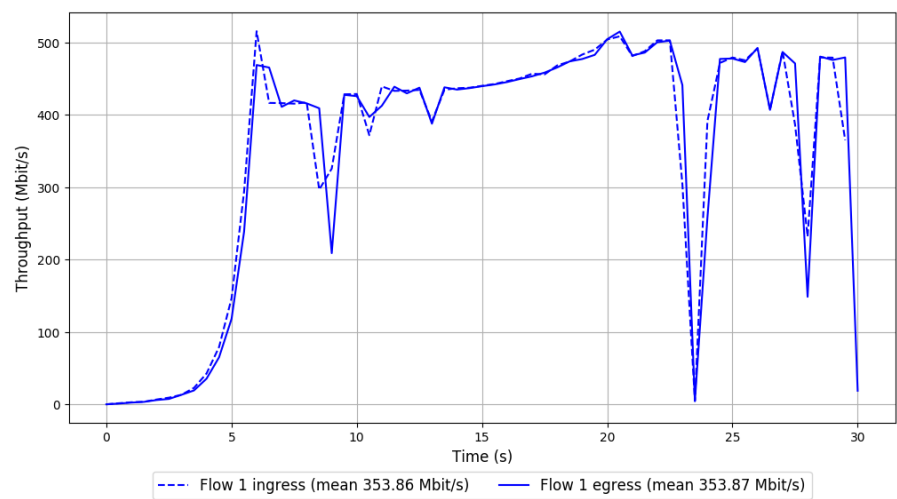
-- Flow 1:

Average throughput: 353.87 Mbit/s

95th percentile per-packet one-way delay: 136.672 ms

Loss rate: 0.00%

Run 9: Report of Vivace-loss — Data Link



Run 10: Statistics of Vivace-loss

Start at: 2018-02-16 19:51:57

End at: 2018-02-16 19:52:27

Below is generated by plot.py at 2018-02-16 22:37:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 361.20 Mbit/s

95th percentile per-packet one-way delay: 227.464 ms

Loss rate: 0.90%

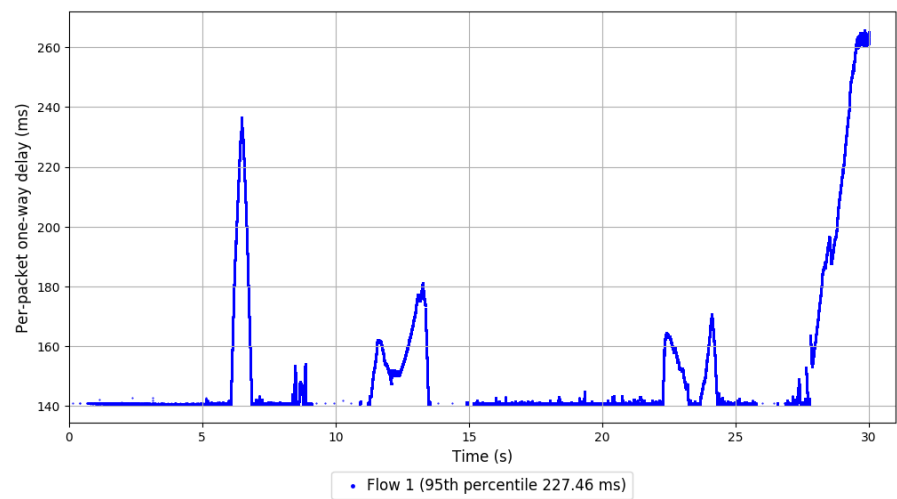
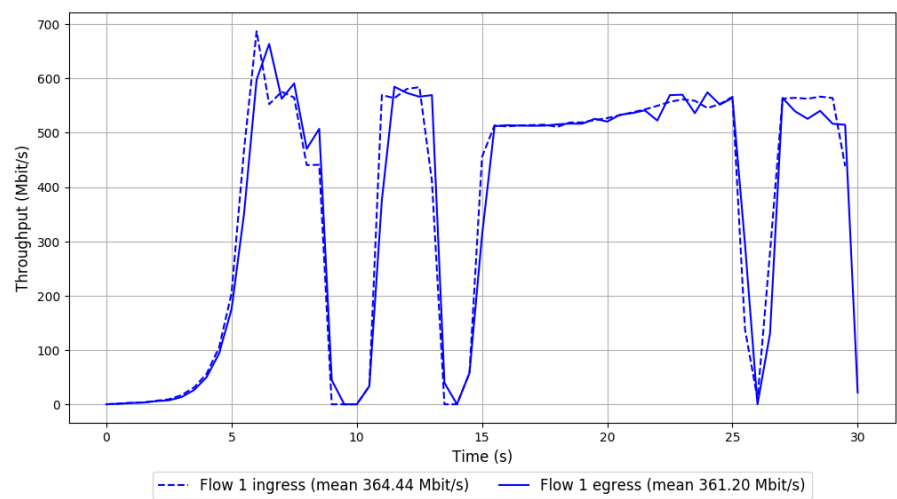
-- Flow 1:

Average throughput: 361.20 Mbit/s

95th percentile per-packet one-way delay: 227.464 ms

Loss rate: 0.90%

Run 10: Report of Vivace-loss — Data Link

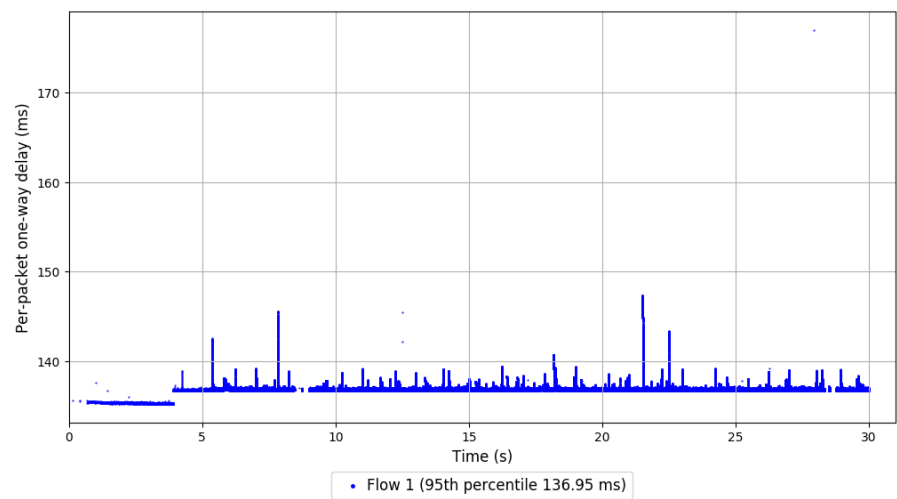
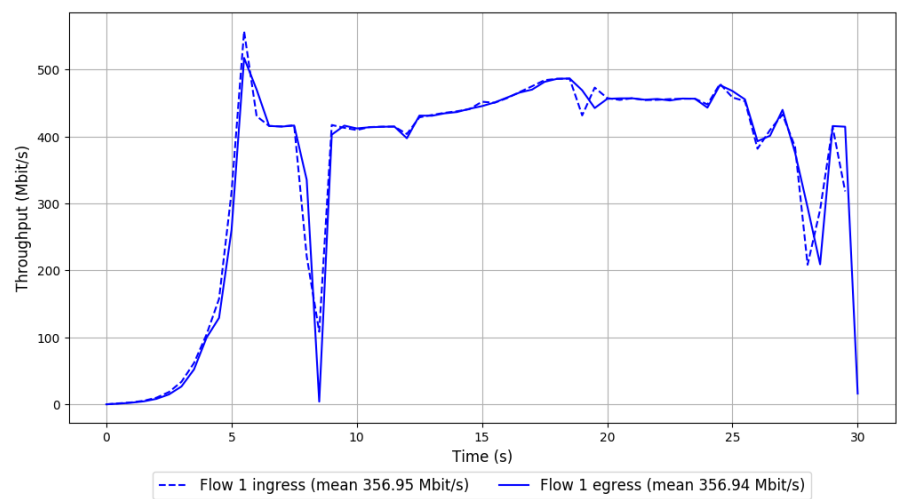


```
Run 1: Statistics of Vivace-LTE

Start at: 2018-02-16 17:31:35
End at: 2018-02-16 17:32:05

# Below is generated by plot.py at 2018-02-16 22:38:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 356.94 Mbit/s
95th percentile per-packet one-way delay: 136.947 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 356.94 Mbit/s
95th percentile per-packet one-way delay: 136.947 ms
Loss rate: 0.00%
```

Run 1: Report of Vivace-LTE — Data Link



Run 2: Statistics of Vivace-LTE

Start at: 2018-02-16 17:47:29

End at: 2018-02-16 17:47:59

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 357.72 Mbit/s

95th percentile per-packet one-way delay: 138.705 ms

Loss rate: 0.00%

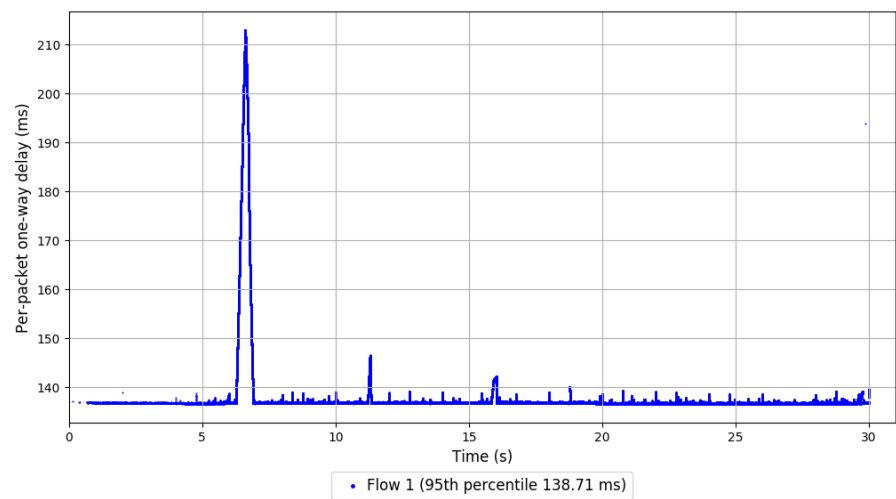
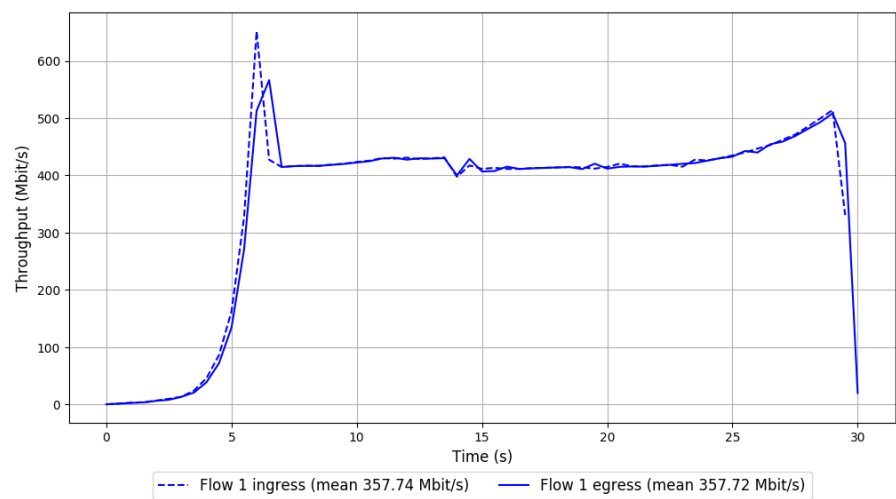
-- Flow 1:

Average throughput: 357.72 Mbit/s

95th percentile per-packet one-way delay: 138.705 ms

Loss rate: 0.00%

Run 2: Report of Vivace-LTE — Data Link



Run 3: Statistics of Vivace-LTE

Start at: 2018-02-16 18:03:53

End at: 2018-02-16 18:04:23

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 144.32 Mbit/s

95th percentile per-packet one-way delay: 140.316 ms

Loss rate: 0.06%

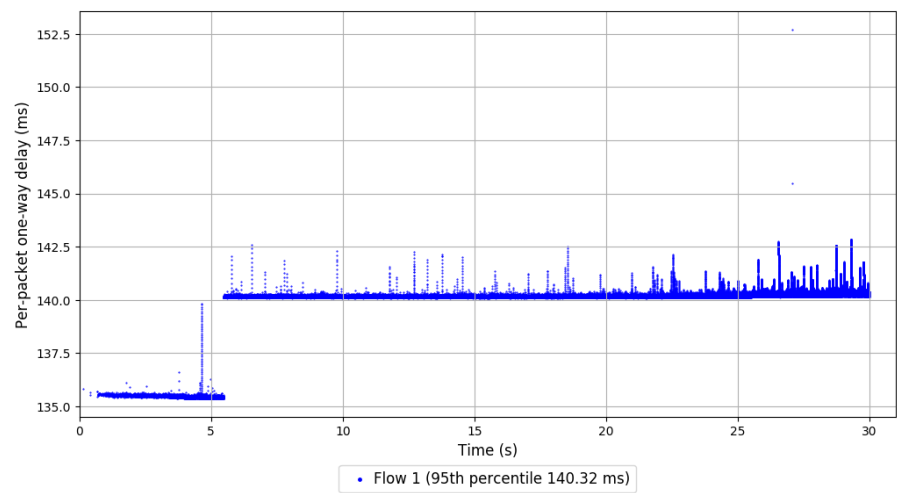
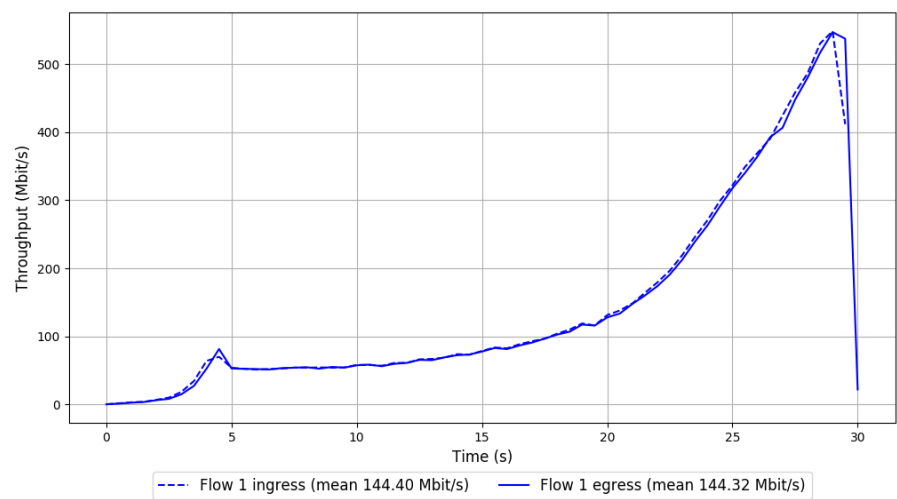
-- Flow 1:

Average throughput: 144.32 Mbit/s

95th percentile per-packet one-way delay: 140.316 ms

Loss rate: 0.06%

Run 3: Report of Vivace-LTE — Data Link



Run 4: Statistics of Vivace-LTE

Start at: 2018-02-16 18:19:35

End at: 2018-02-16 18:20:05

Below is generated by plot.py at 2018-02-16 22:40:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 377.96 Mbit/s

95th percentile per-packet one-way delay: 137.666 ms

Loss rate: 0.00%

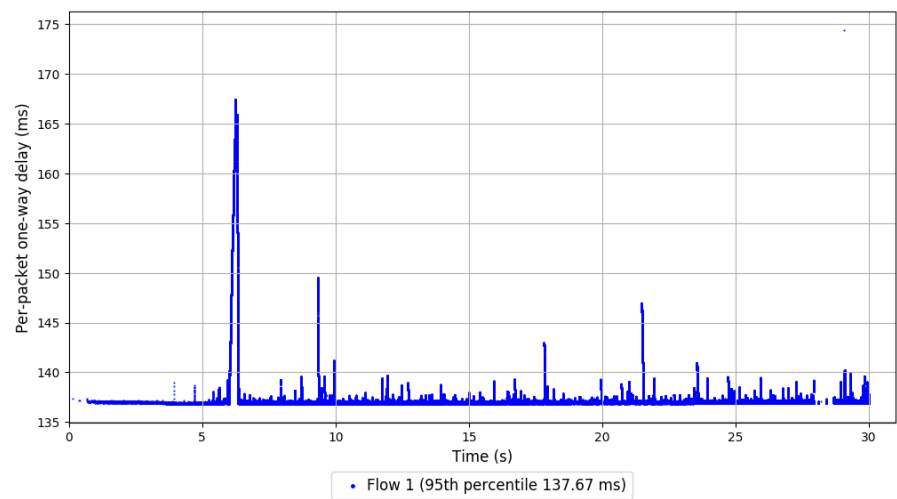
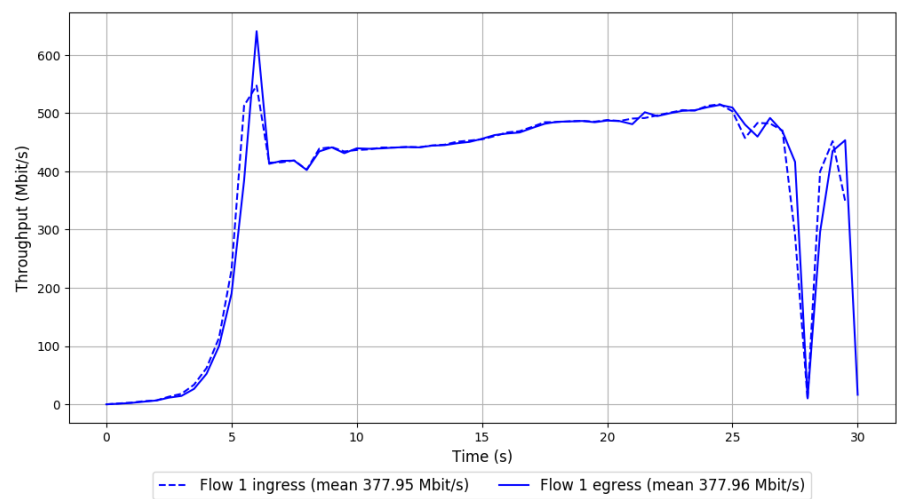
-- Flow 1:

Average throughput: 377.96 Mbit/s

95th percentile per-packet one-way delay: 137.666 ms

Loss rate: 0.00%

Run 4: Report of Vivace-LTE — Data Link



Run 5: Statistics of Vivace-LTE

Start at: 2018-02-16 18:35:49

End at: 2018-02-16 18:36:19

Below is generated by plot.py at 2018-02-16 22:40:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 376.03 Mbit/s

95th percentile per-packet one-way delay: 138.082 ms

Loss rate: 0.00%

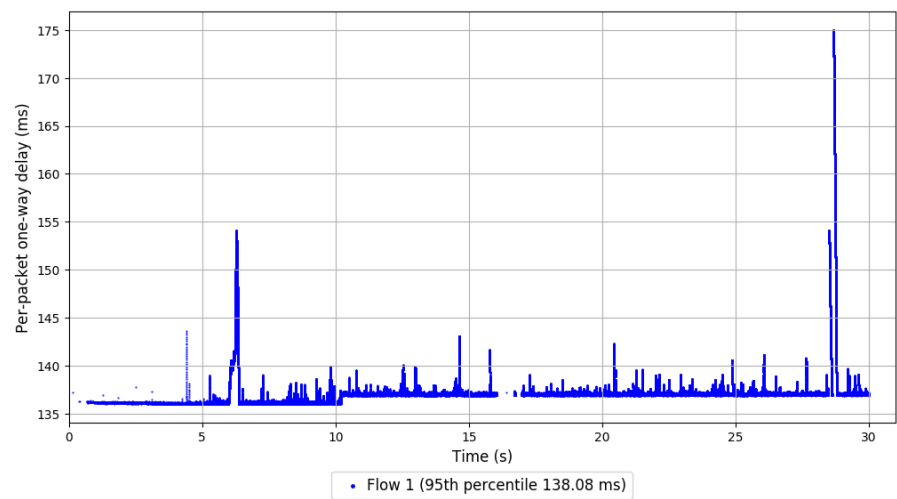
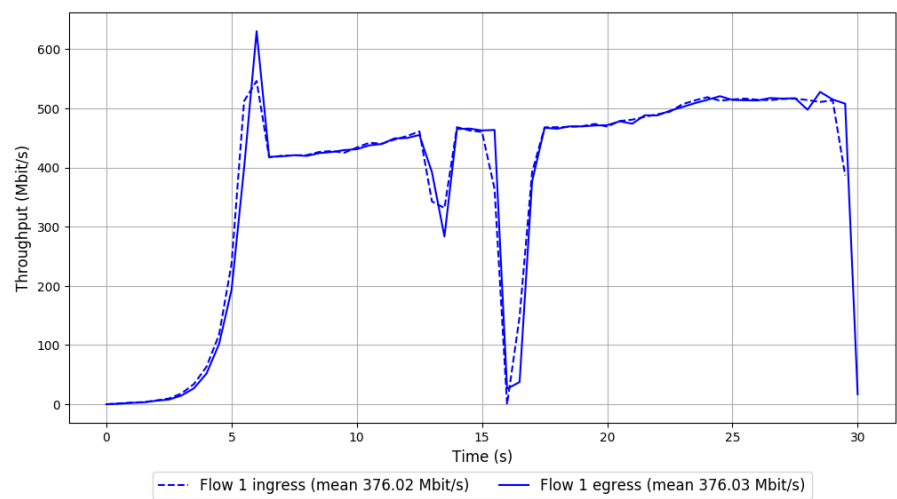
-- Flow 1:

Average throughput: 376.03 Mbit/s

95th percentile per-packet one-way delay: 138.082 ms

Loss rate: 0.00%

Run 5: Report of Vivace-LTE — Data Link



Run 6: Statistics of Vivace-LTE

Start at: 2018-02-16 18:51:42

End at: 2018-02-16 18:52:12

Below is generated by plot.py at 2018-02-16 22:40:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 383.44 Mbit/s

95th percentile per-packet one-way delay: 144.598 ms

Loss rate: 0.00%

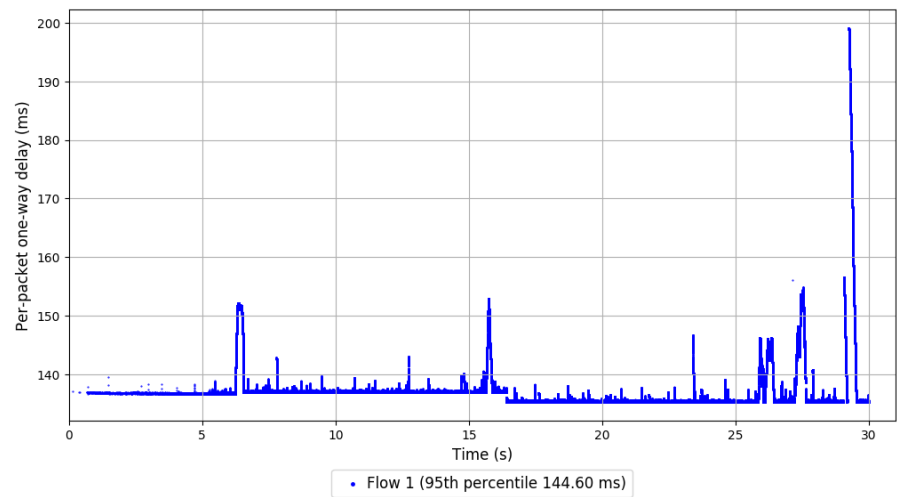
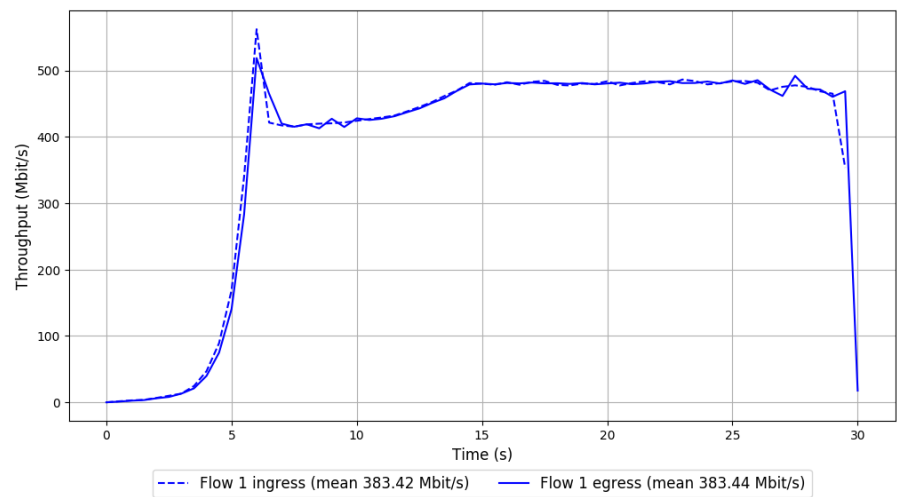
-- Flow 1:

Average throughput: 383.44 Mbit/s

95th percentile per-packet one-way delay: 144.598 ms

Loss rate: 0.00%

Run 6: Report of Vivace-LTE — Data Link



Run 7: Statistics of Vivace-LTE

Start at: 2018-02-16 19:08:20

End at: 2018-02-16 19:08:50

Below is generated by plot.py at 2018-02-16 22:41:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 374.21 Mbit/s

95th percentile per-packet one-way delay: 141.879 ms

Loss rate: 0.00%

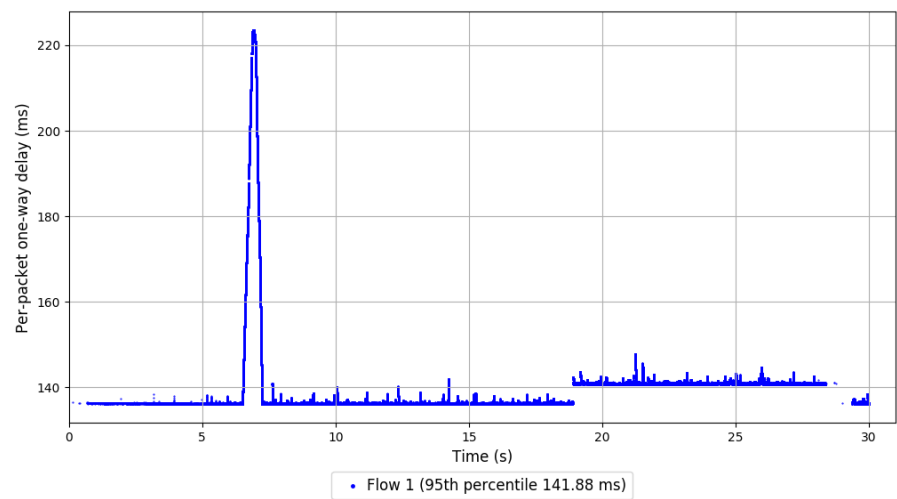
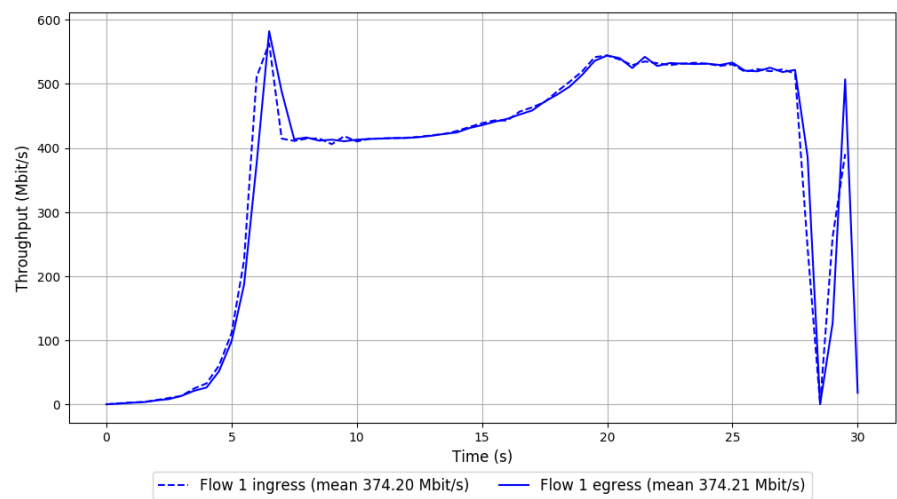
-- Flow 1:

Average throughput: 374.21 Mbit/s

95th percentile per-packet one-way delay: 141.879 ms

Loss rate: 0.00%

Run 7: Report of Vivace-LTE — Data Link



Run 8: Statistics of Vivace-LTE

Start at: 2018-02-16 19:24:54

End at: 2018-02-16 19:25:24

Below is generated by plot.py at 2018-02-16 22:41:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 355.33 Mbit/s

95th percentile per-packet one-way delay: 137.368 ms

Loss rate: 0.00%

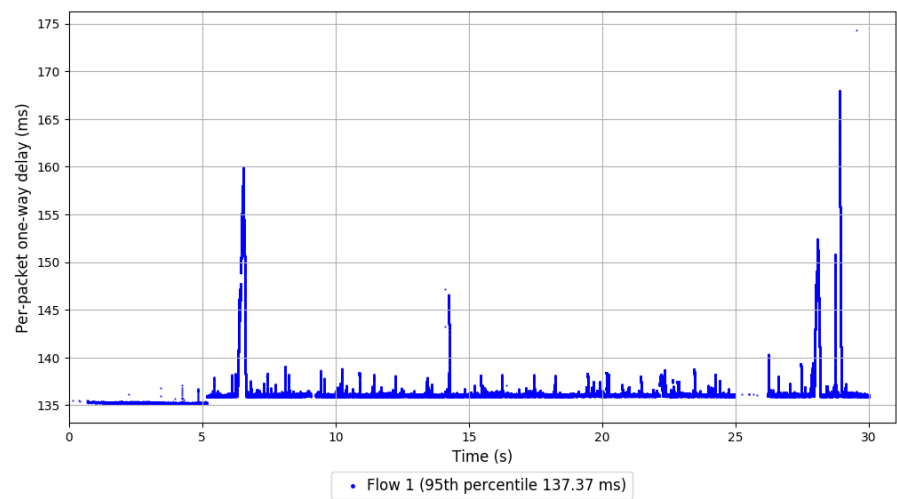
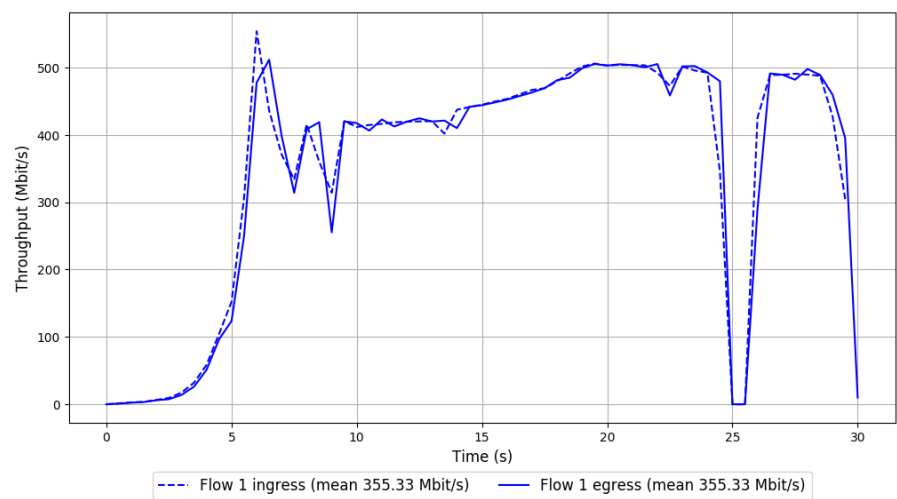
-- Flow 1:

Average throughput: 355.33 Mbit/s

95th percentile per-packet one-way delay: 137.368 ms

Loss rate: 0.00%

Run 8: Report of Vivace-LTE — Data Link



Run 9: Statistics of Vivace-LTE

Start at: 2018-02-16 19:41:18

End at: 2018-02-16 19:41:48

Below is generated by plot.py at 2018-02-16 22:41:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 338.69 Mbit/s

95th percentile per-packet one-way delay: 140.924 ms

Loss rate: 0.01%

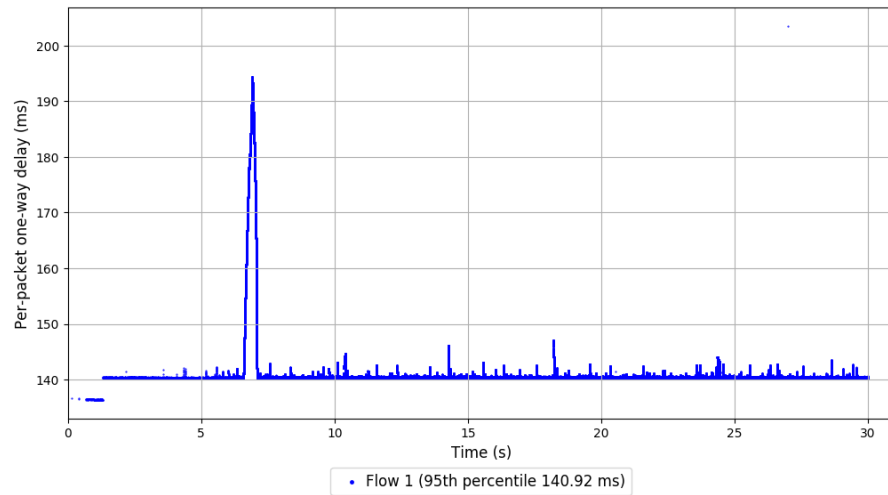
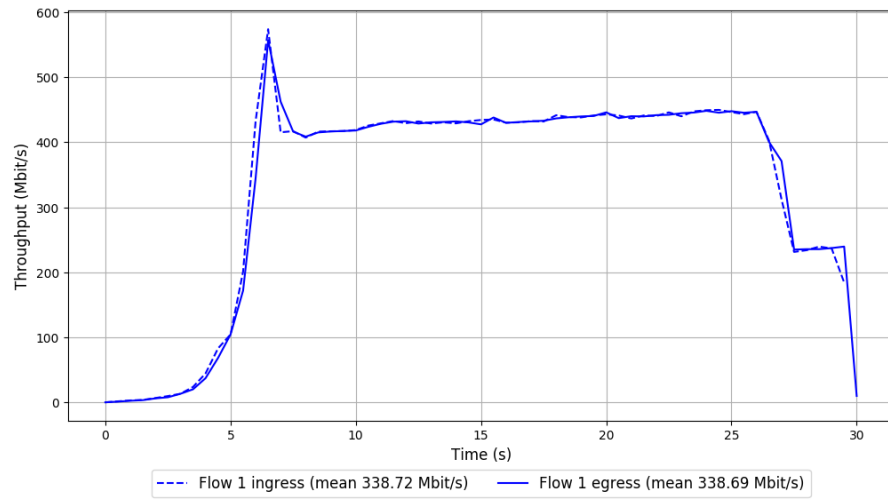
-- Flow 1:

Average throughput: 338.69 Mbit/s

95th percentile per-packet one-way delay: 140.924 ms

Loss rate: 0.01%

Run 9: Report of Vivace-LTE — Data Link



Run 10: Statistics of Vivace-LTE

Start at: 2018-02-16 19:57:19

End at: 2018-02-16 19:57:49

Below is generated by plot.py at 2018-02-16 22:41:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 401.09 Mbit/s

95th percentile per-packet one-way delay: 139.839 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 401.09 Mbit/s

95th percentile per-packet one-way delay: 139.839 ms

Loss rate: 0.00%

Run 10: Report of Vivace-LTE — Data Link

