

Pantheon Report

Generated at 2018-02-16 05:59:16 (UTC).

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

Repeated the test of 17 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

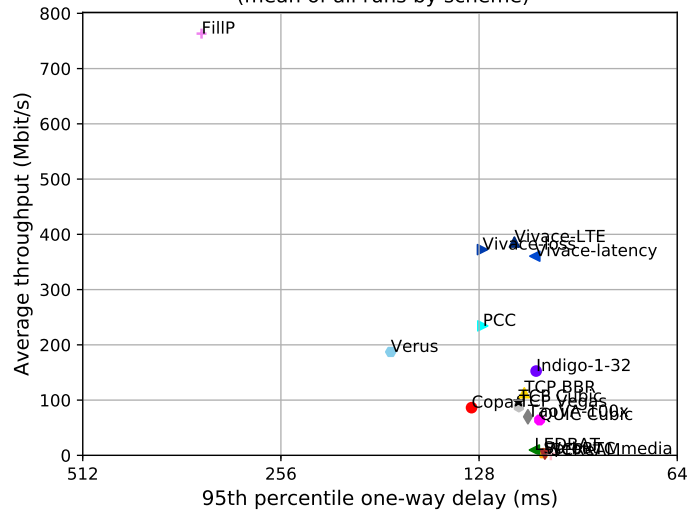
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

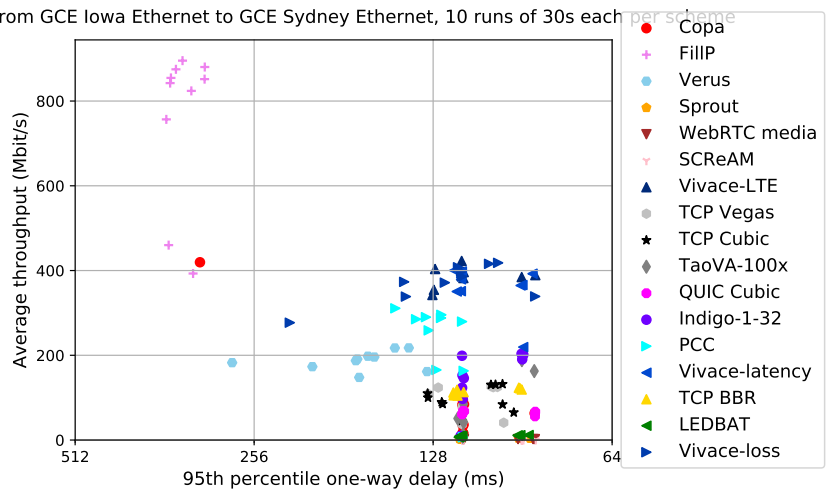
Git summary:

```
branch: master @ 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 @ 2601c92e4aa9d58d38dc4dfe0ecd90c077e64d
third_party/indigo-1-layer-32-unit-no-calib @ 1f3a7f75b41135ed5b540c0fd3505939528e2a5f
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ fb1053193c2861da659ba9013db26744ccfcf993
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaeab30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/vivace @ 7a4ba531e75b4a6f66f5c4580192120401784ce3
third_party/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

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



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



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	113.30	109.27	0.00
TCP Cubic	10	97.16	111.53	0.00
LEDBAT	10	9.71	105.49	0.17
PCC	10	234.32	126.33	0.37
QUIC Cubic	8	64.02	103.59	0.03
SCReAM	10	0.22	99.58	0.00
WebRTC media	10	2.18	101.68	0.00
Sprout	10	3.42	102.19	0.00
TaoVA-100x	8	69.86	107.90	0.09
TCP Vegas	10	87.97	111.36	0.03
Verus	10	187.19	174.35	0.99
Copa	10	86.33	131.41	3.63
FillP	10	763.28	337.91	5.11
Indigo-1-32	10	152.57	104.85	0.01
Vivace-latency	10	360.55	105.34	0.02
Vivace-loss	10	372.39	126.49	0.22
Vivace-LTE	10	386.05	113.12	0.06

Run 1: Statistics of TCP BBR

Start at: 2018-02-16 00:48:35

End at: 2018-02-16 00:49:05

Below is generated by plot.py at 2018-02-16 04:48:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 118.57 Mbit/s

95th percentile per-packet one-way delay: 116.673 ms

Loss rate: 0.00%

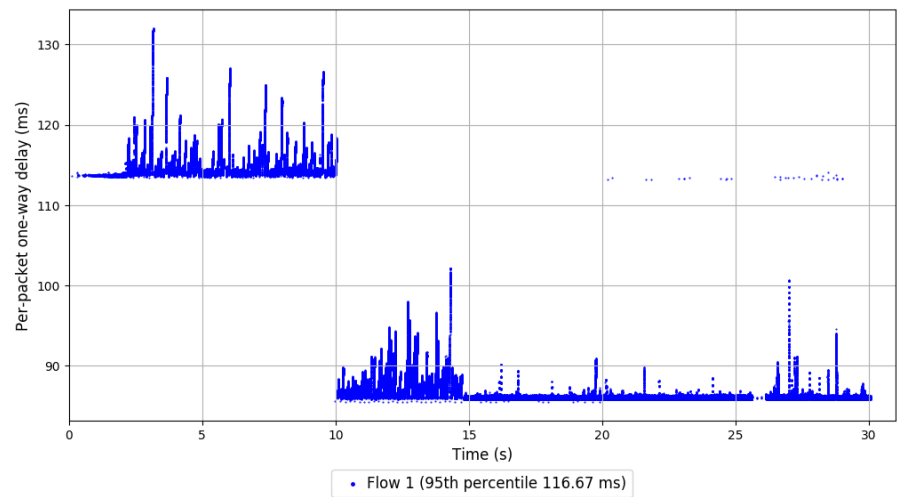
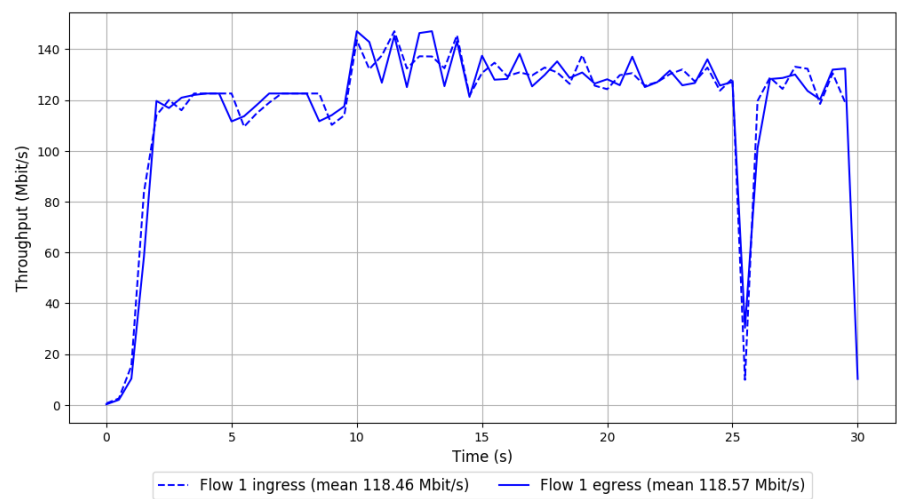
-- Flow 1:

Average throughput: 118.57 Mbit/s

95th percentile per-packet one-way delay: 116.673 ms

Loss rate: 0.00%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-02-16 01:03:42

End at: 2018-02-16 01:04:12

Below is generated by plot.py at 2018-02-16 04:48:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 113.13 Mbit/s

95th percentile per-packet one-way delay: 113.740 ms

Loss rate: 0.00%

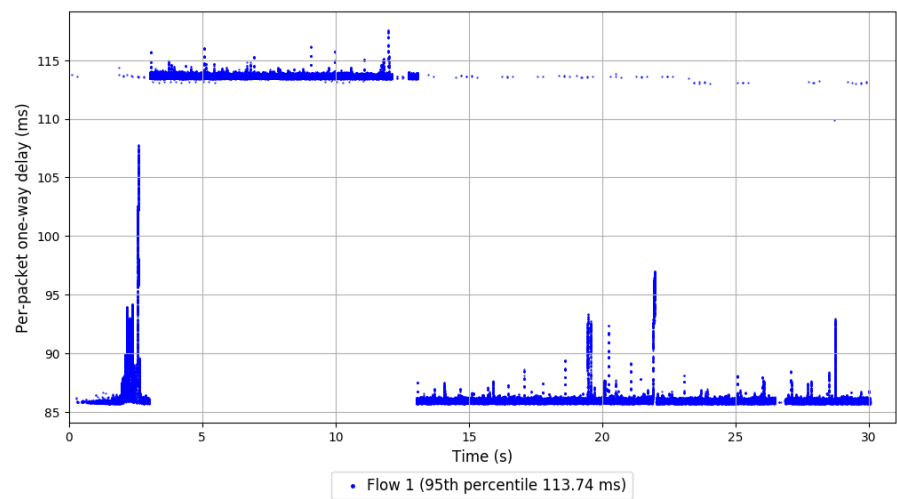
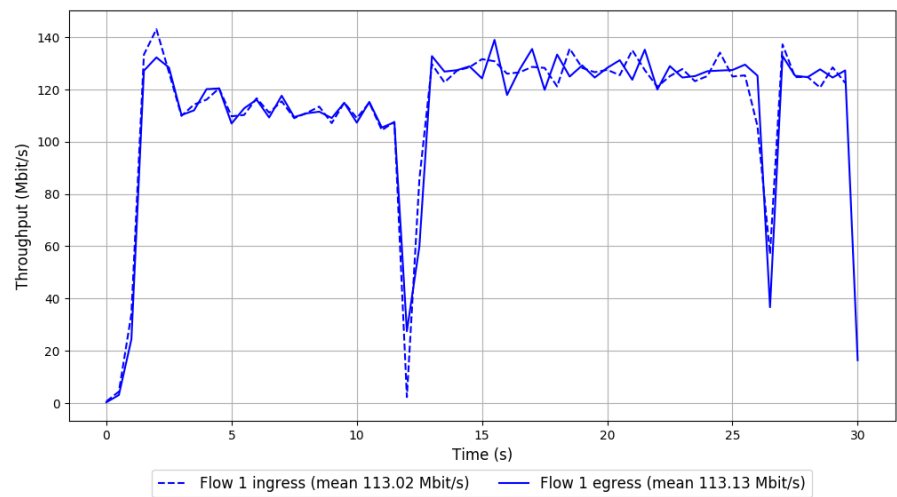
-- Flow 1:

Average throughput: 113.13 Mbit/s

95th percentile per-packet one-way delay: 113.740 ms

Loss rate: 0.00%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-02-16 01:18:55

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

Below is generated by plot.py at 2018-02-16 04:48:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 123.59 Mbit/s

95th percentile per-packet one-way delay: 91.853 ms

Loss rate: 0.00%

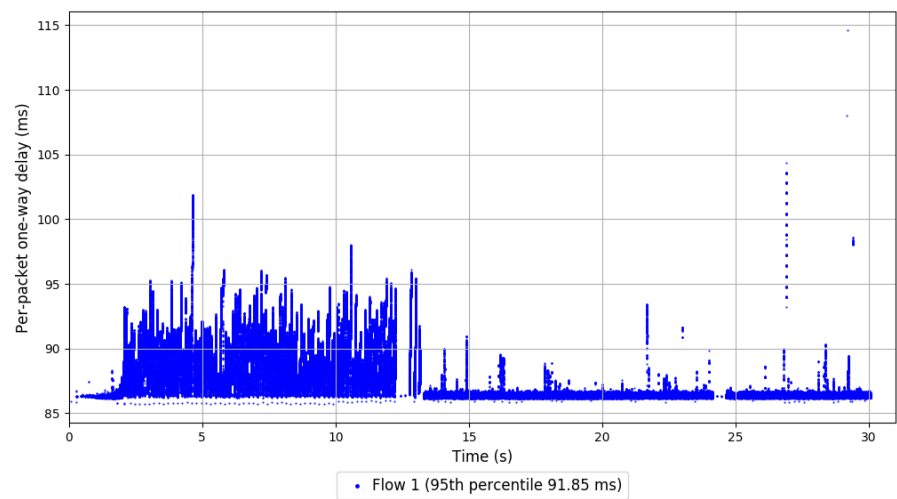
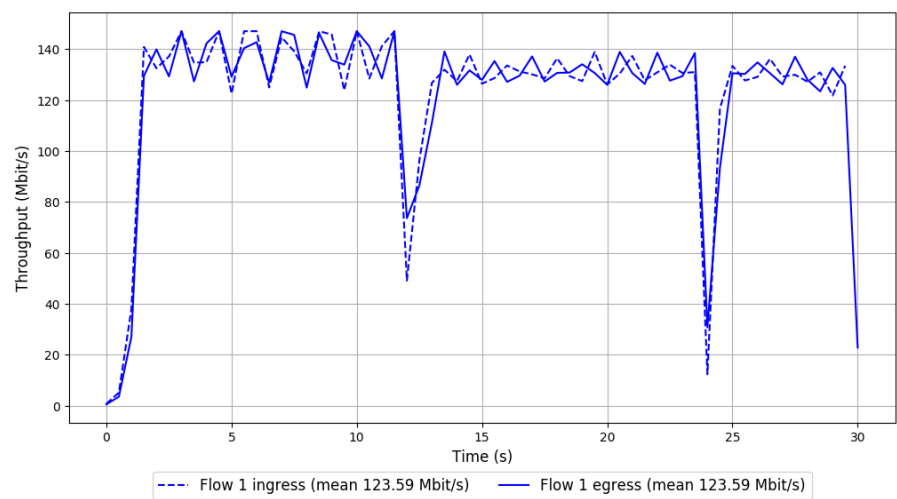
-- Flow 1:

Average throughput: 123.59 Mbit/s

95th percentile per-packet one-way delay: 91.853 ms

Loss rate: 0.00%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-02-16 01:34:21

End at: 2018-02-16 01:34:51

Below is generated by plot.py at 2018-02-16 04:48:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 105.04 Mbit/s

95th percentile per-packet one-way delay: 116.449 ms

Loss rate: 0.00%

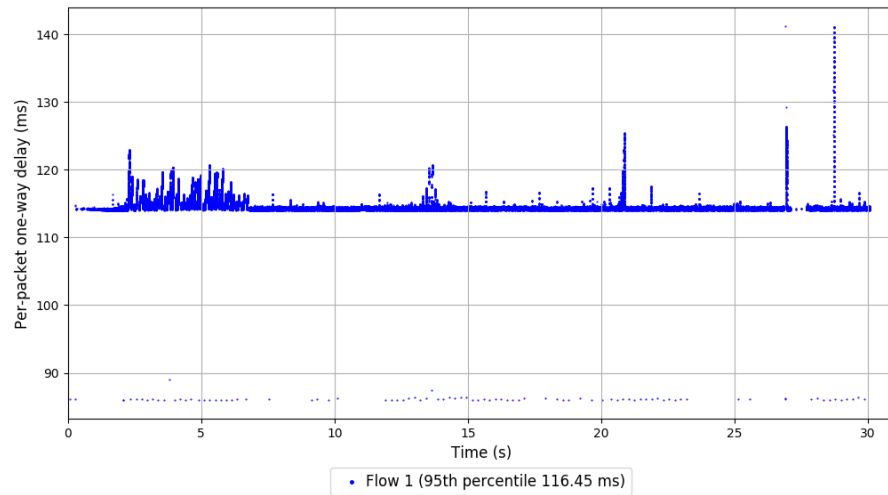
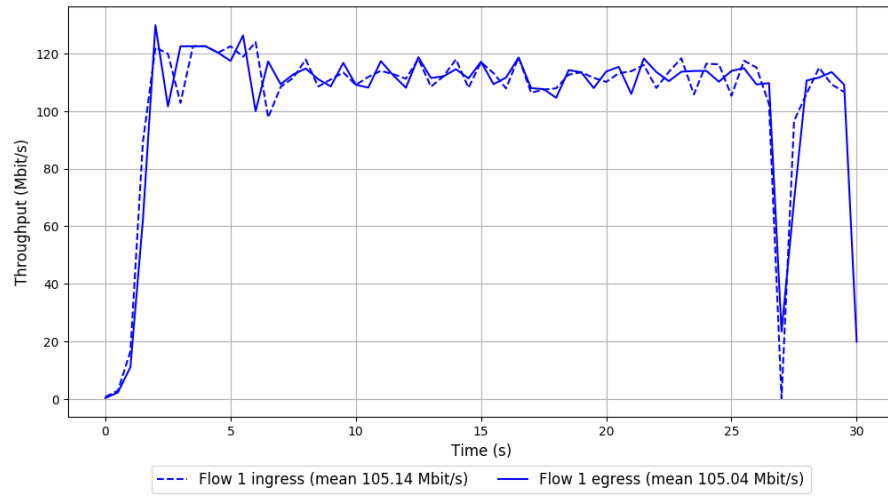
-- Flow 1:

Average throughput: 105.04 Mbit/s

95th percentile per-packet one-way delay: 116.449 ms

Loss rate: 0.00%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-02-16 01:49:26

End at: 2018-02-16 01:49:56

Below is generated by plot.py at 2018-02-16 04:48:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 106.61 Mbit/s

95th percentile per-packet one-way delay: 117.276 ms

Loss rate: 0.00%

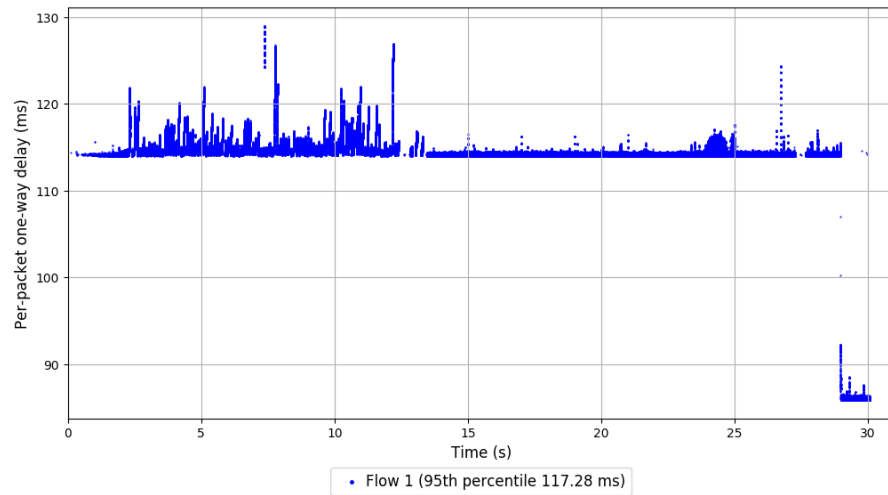
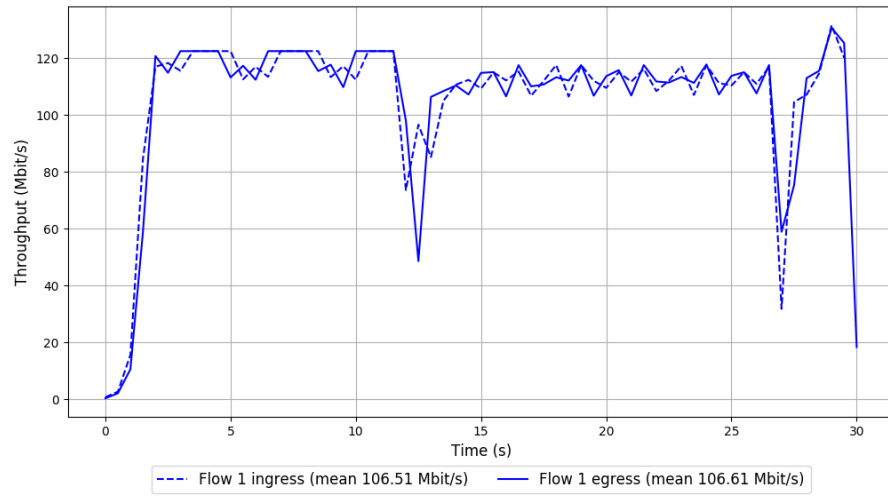
-- Flow 1:

Average throughput: 106.61 Mbit/s

95th percentile per-packet one-way delay: 117.276 ms

Loss rate: 0.00%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-02-16 02:04:13

End at: 2018-02-16 02:04:43

Below is generated by plot.py at 2018-02-16 04:48:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 106.37 Mbit/s

95th percentile per-packet one-way delay: 117.858 ms

Loss rate: 0.00%

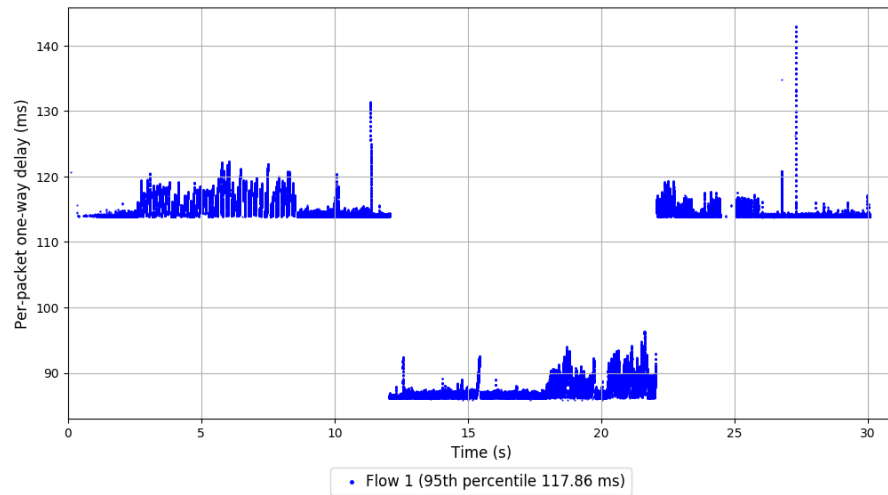
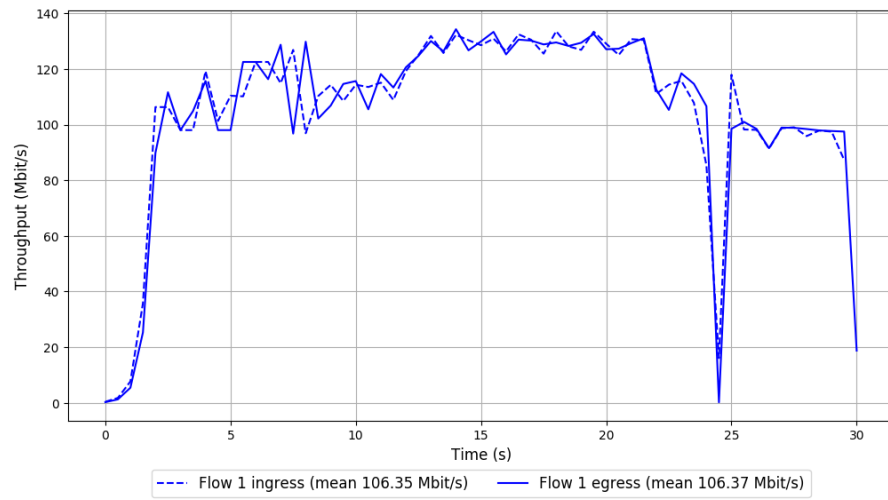
-- Flow 1:

Average throughput: 106.37 Mbit/s

95th percentile per-packet one-way delay: 117.858 ms

Loss rate: 0.00%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

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

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

Below is generated by plot.py at 2018-02-16 04:48:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 105.84 Mbit/s

95th percentile per-packet one-way delay: 118.245 ms

Loss rate: 0.00%

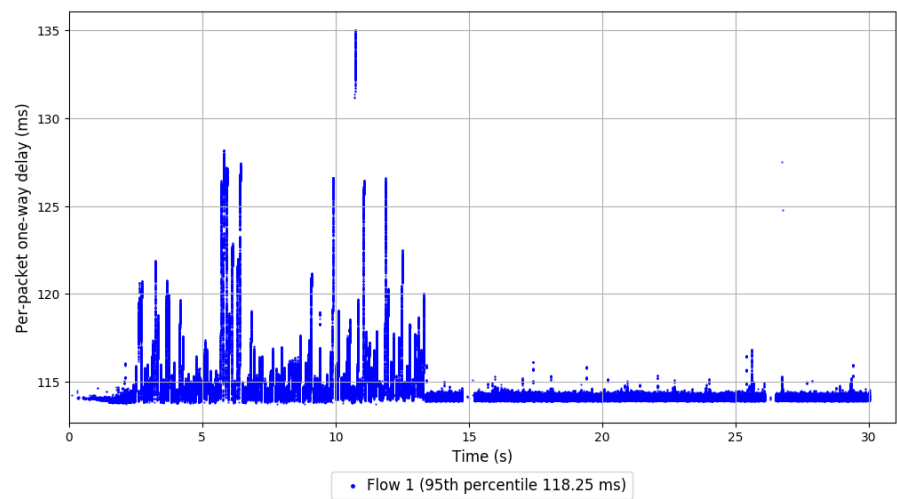
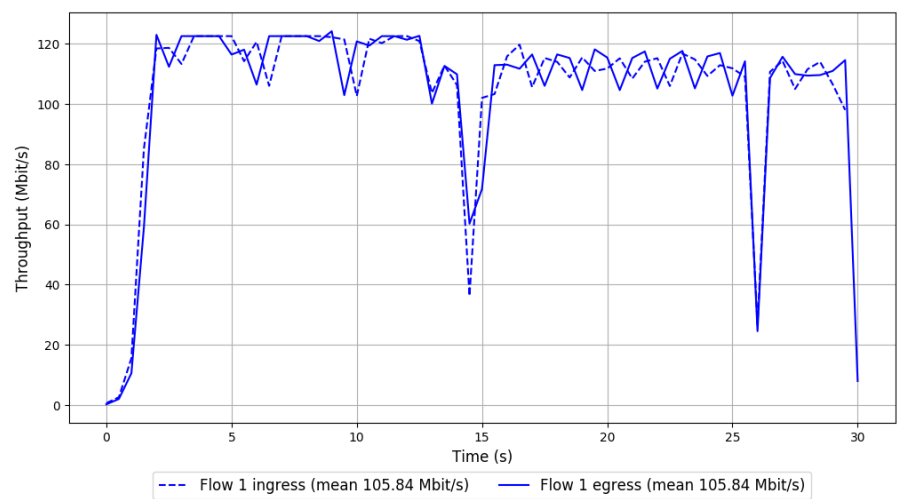
-- Flow 1:

Average throughput: 105.84 Mbit/s

95th percentile per-packet one-way delay: 118.245 ms

Loss rate: 0.00%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-02-16 02:34:37

End at: 2018-02-16 02:35:08

Below is generated by plot.py at 2018-02-16 04:48:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 112.27 Mbit/s

95th percentile per-packet one-way delay: 118.349 ms

Loss rate: 0.00%

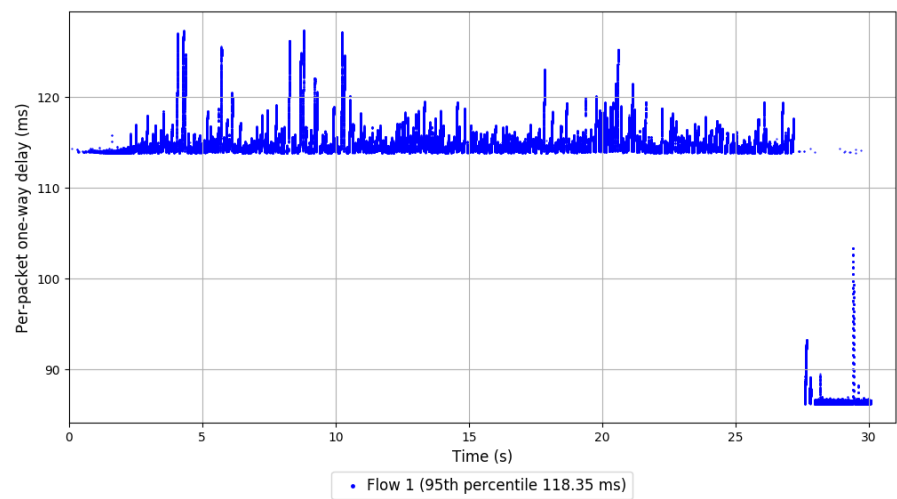
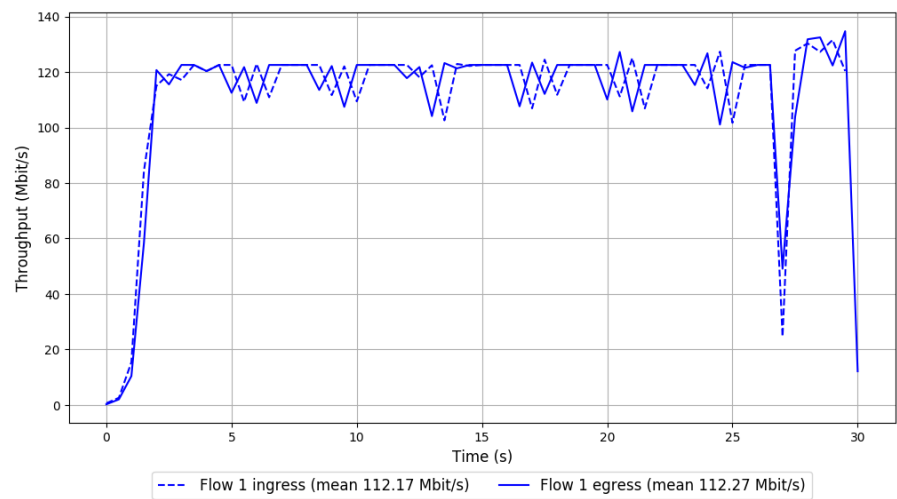
-- Flow 1:

Average throughput: 112.27 Mbit/s

95th percentile per-packet one-way delay: 118.349 ms

Loss rate: 0.00%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-02-16 02:49:42

End at: 2018-02-16 02:50:12

Below is generated by plot.py at 2018-02-16 04:49:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 119.29 Mbit/s

95th percentile per-packet one-way delay: 90.829 ms

Loss rate: 0.00%

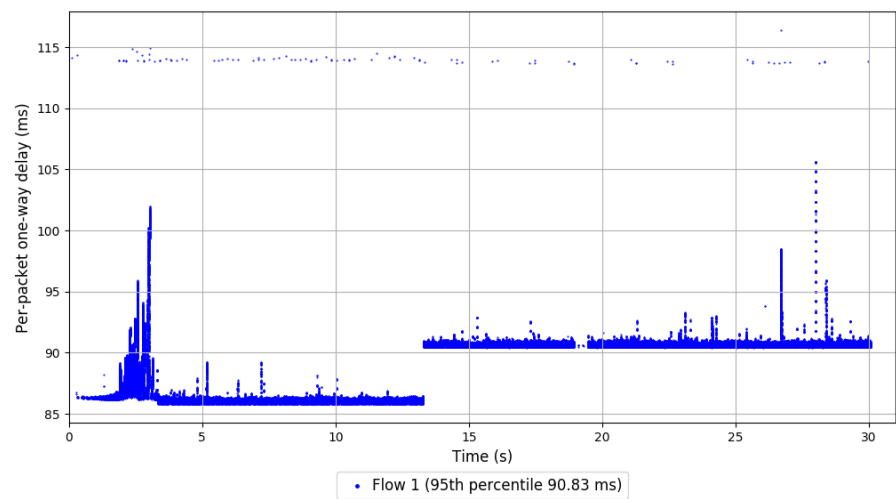
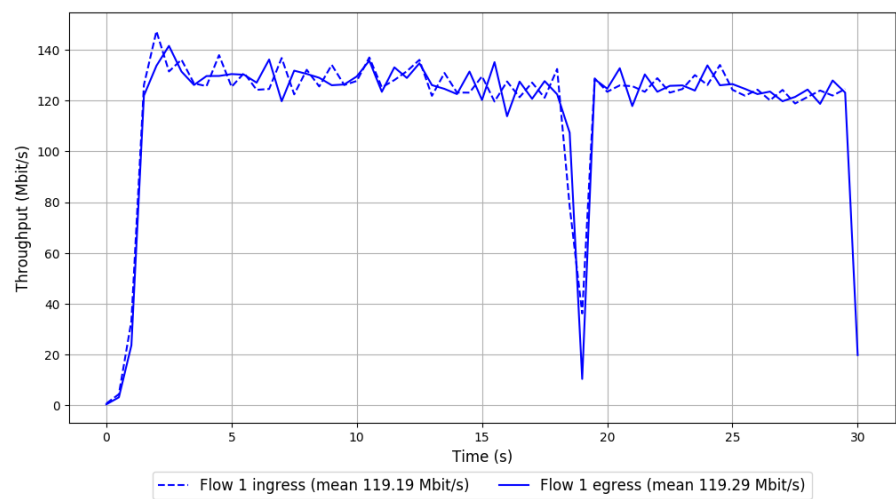
-- Flow 1:

Average throughput: 119.29 Mbit/s

95th percentile per-packet one-way delay: 90.829 ms

Loss rate: 0.00%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-02-16 03:05:27

End at: 2018-02-16 03:05:57

Below is generated by plot.py at 2018-02-16 04:50:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 122.27 Mbit/s

95th percentile per-packet one-way delay: 91.443 ms

Loss rate: 0.00%

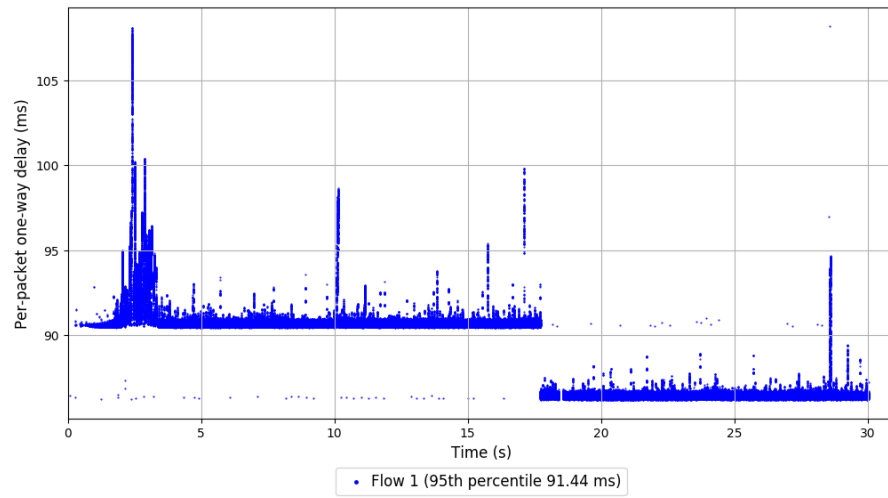
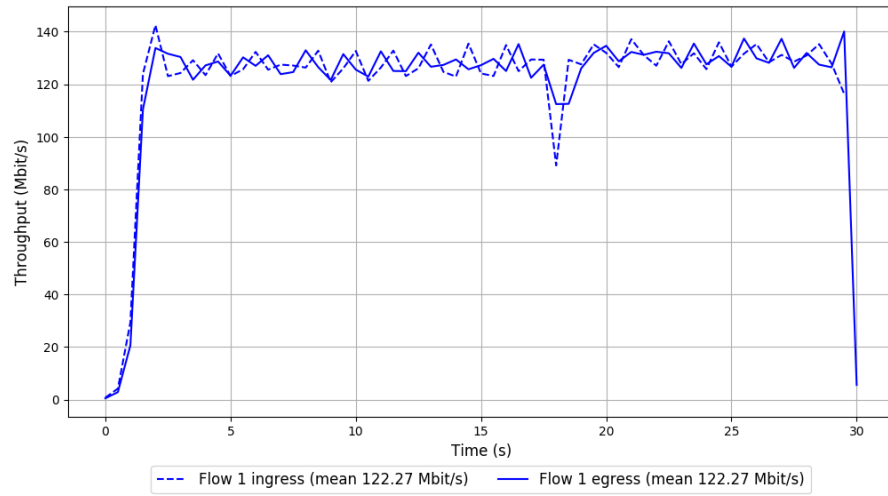
-- Flow 1:

Average throughput: 122.27 Mbit/s

95th percentile per-packet one-way delay: 91.443 ms

Loss rate: 0.00%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-02-16 00:40:33

End at: 2018-02-16 00:41:03

Below is generated by plot.py at 2018-02-16 04:50:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.05 Mbit/s

95th percentile per-packet one-way delay: 123.383 ms

Loss rate: 0.00%

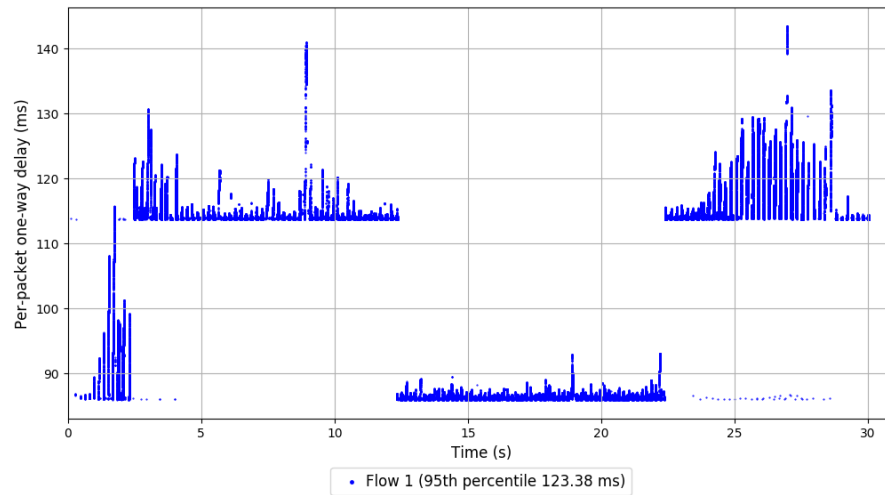
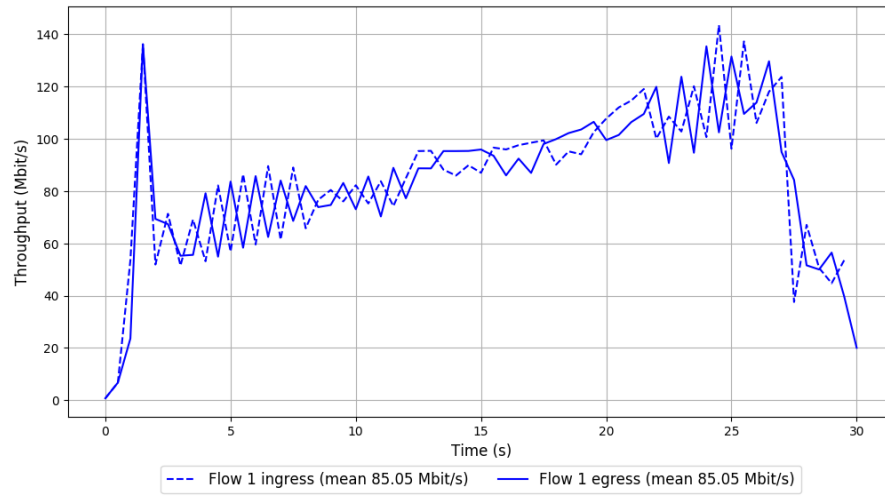
-- Flow 1:

Average throughput: 85.05 Mbit/s

95th percentile per-packet one-way delay: 123.383 ms

Loss rate: 0.00%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-02-16 00:55:33

End at: 2018-02-16 00:56:03

Below is generated by plot.py at 2018-02-16 04:50:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.36 Mbit/s

95th percentile per-packet one-way delay: 123.792 ms

Loss rate: 0.00%

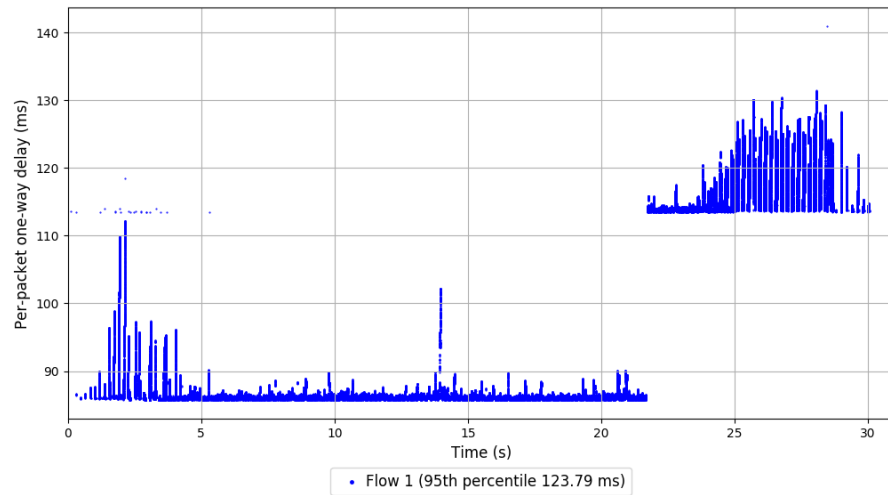
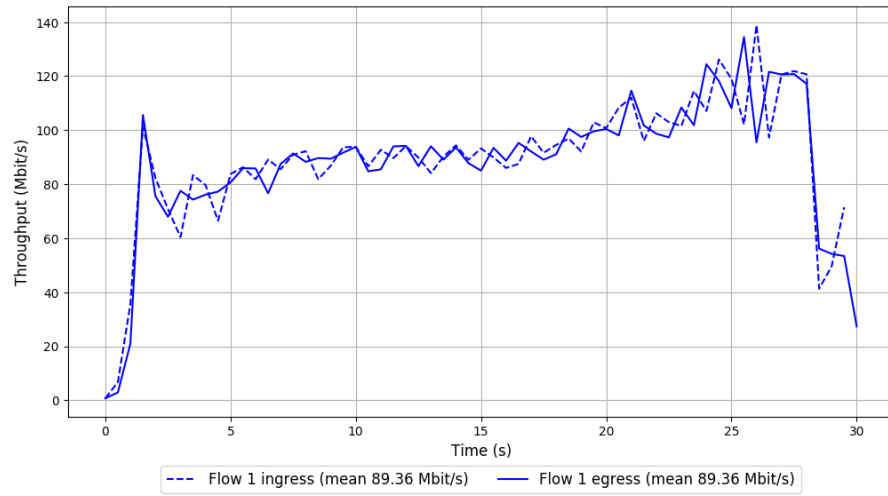
-- Flow 1:

Average throughput: 89.36 Mbit/s

95th percentile per-packet one-way delay: 123.792 ms

Loss rate: 0.00%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

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

End at: 2018-02-16 01:11:19

Below is generated by plot.py at 2018-02-16 04:50:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 130.73 Mbit/s

95th percentile per-packet one-way delay: 100.535 ms

Loss rate: 0.00%

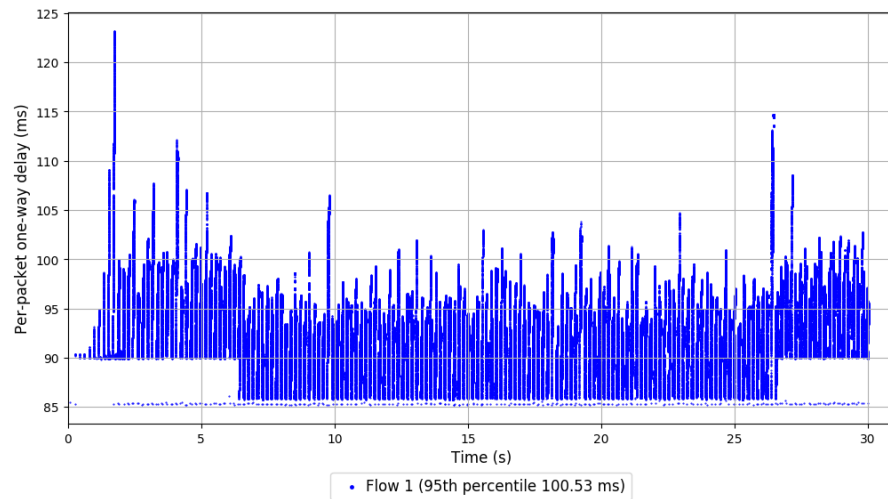
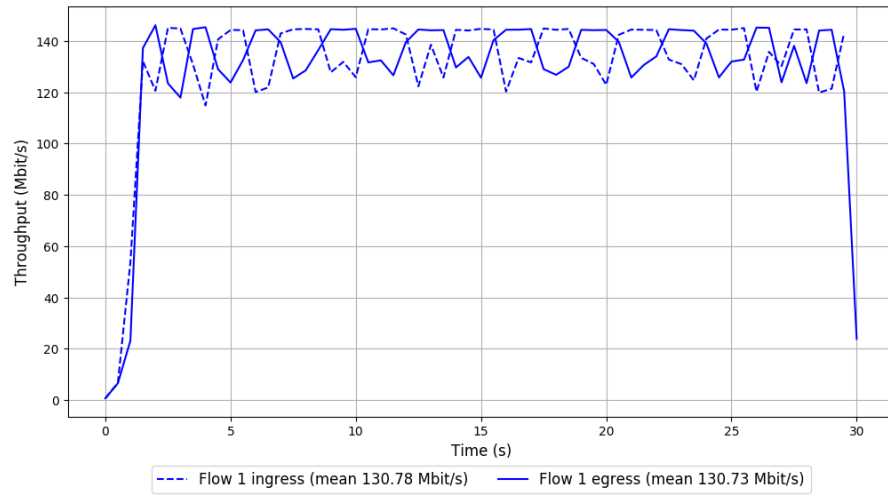
-- Flow 1:

Average throughput: 130.73 Mbit/s

95th percentile per-packet one-way delay: 100.535 ms

Loss rate: 0.00%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-02-16 01:26:06

End at: 2018-02-16 01:26:36

Below is generated by plot.py at 2018-02-16 04:50:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.07 Mbit/s

95th percentile per-packet one-way delay: 97.818 ms

Loss rate: 0.00%

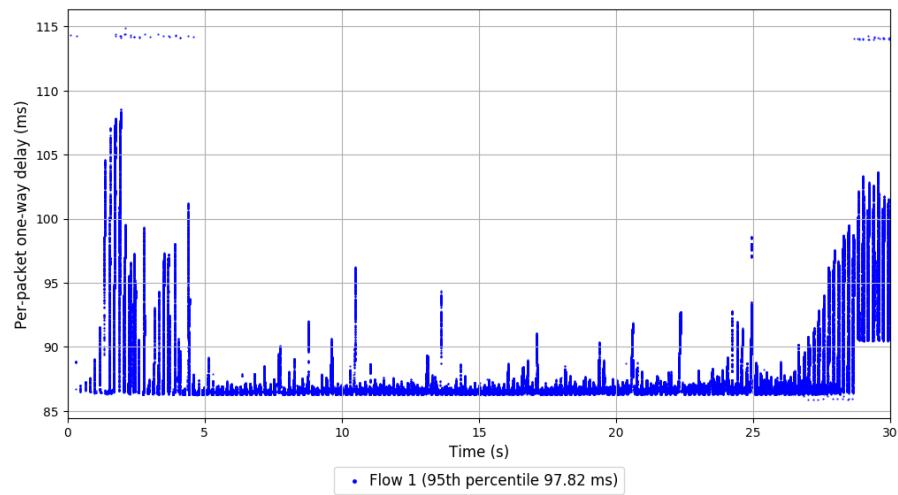
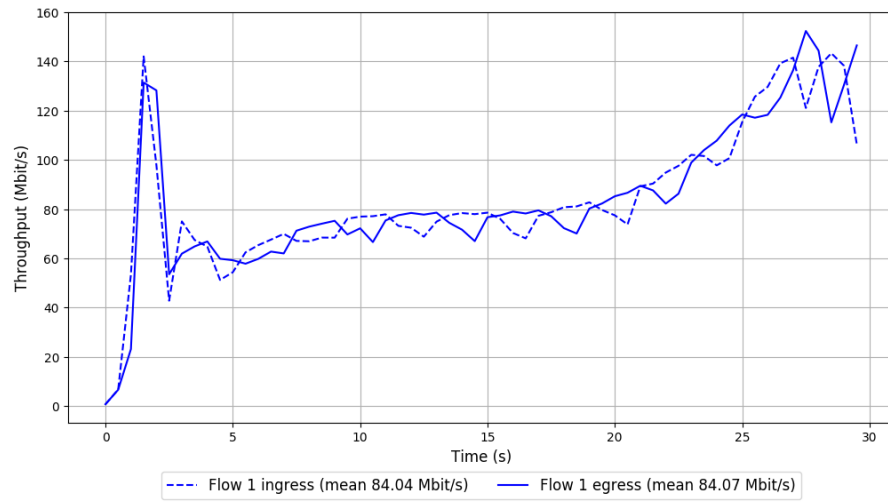
-- Flow 1:

Average throughput: 84.07 Mbit/s

95th percentile per-packet one-way delay: 97.818 ms

Loss rate: 0.00%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-02-16 01:41:14

End at: 2018-02-16 01:41:44

Below is generated by plot.py at 2018-02-16 04:50:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 131.99 Mbit/s

95th percentile per-packet one-way delay: 97.842 ms

Loss rate: 0.00%

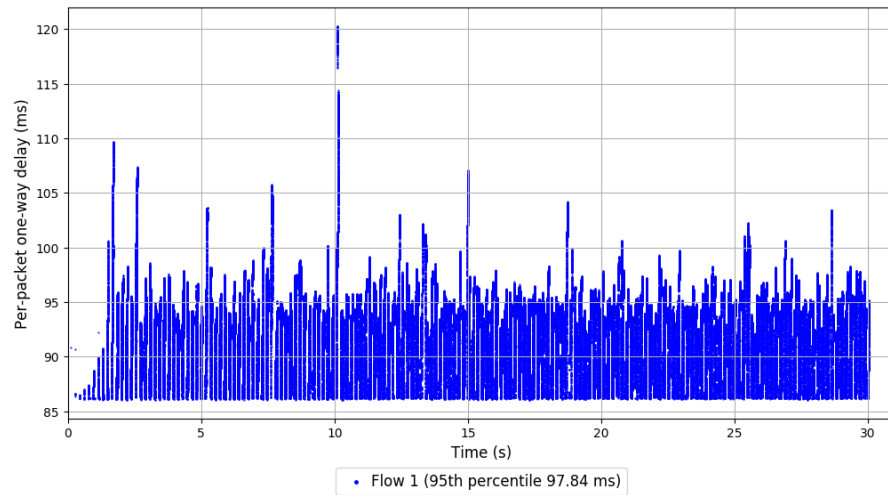
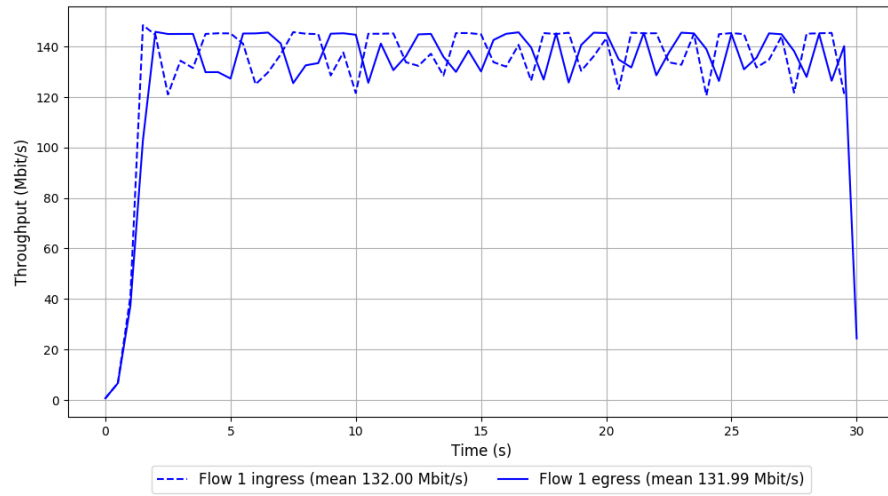
-- Flow 1:

Average throughput: 131.99 Mbit/s

95th percentile per-packet one-way delay: 97.842 ms

Loss rate: 0.00%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-02-16 01:56:34

End at: 2018-02-16 01:57:04

Below is generated by plot.py at 2018-02-16 04:50:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 44.92 Mbit/s

95th percentile per-packet one-way delay: 114.625 ms

Loss rate: 0.00%

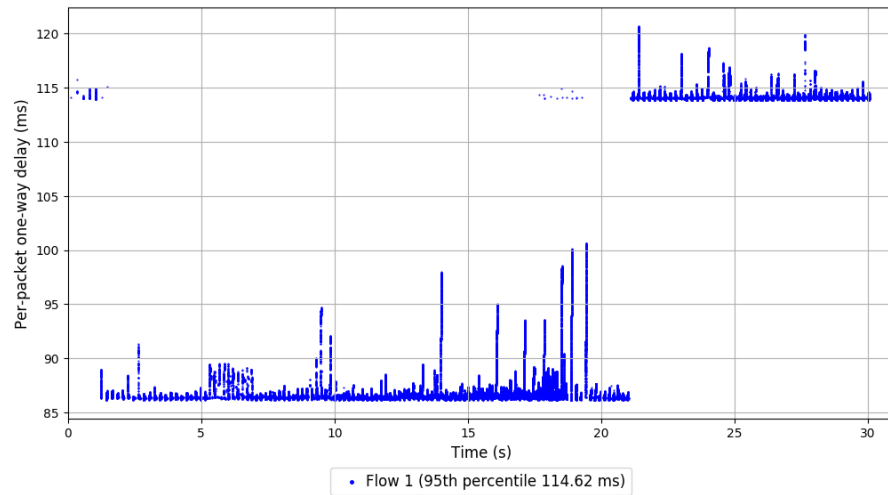
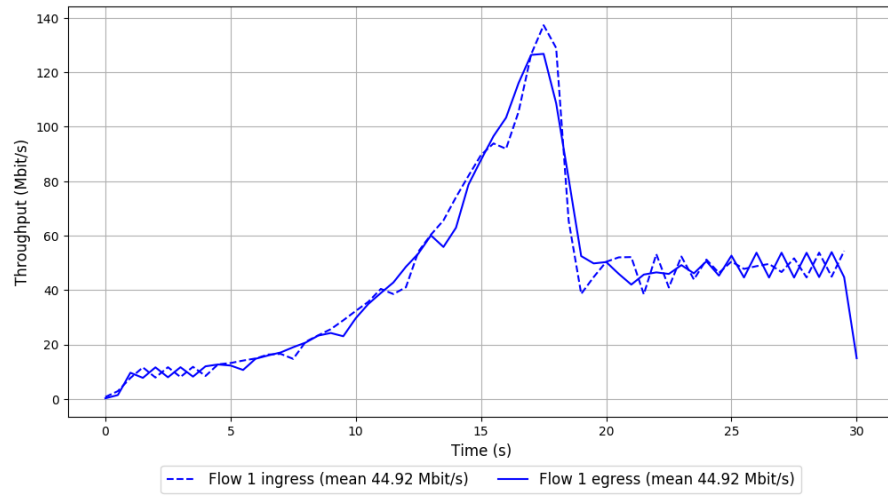
-- Flow 1:

Average throughput: 44.92 Mbit/s

95th percentile per-packet one-way delay: 114.625 ms

Loss rate: 0.00%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

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

End at: 2018-02-16 02:11:31

Below is generated by plot.py at 2018-02-16 04:51:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 109.93 Mbit/s

95th percentile per-packet one-way delay: 130.778 ms

Loss rate: 0.00%

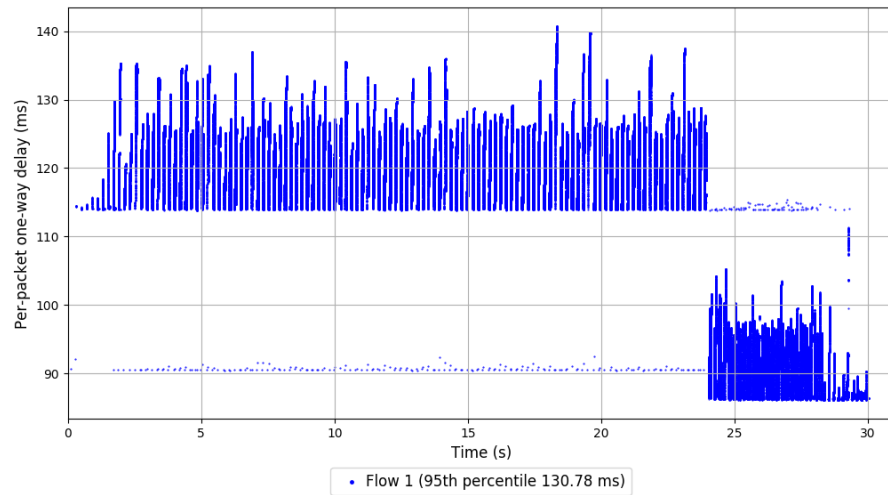
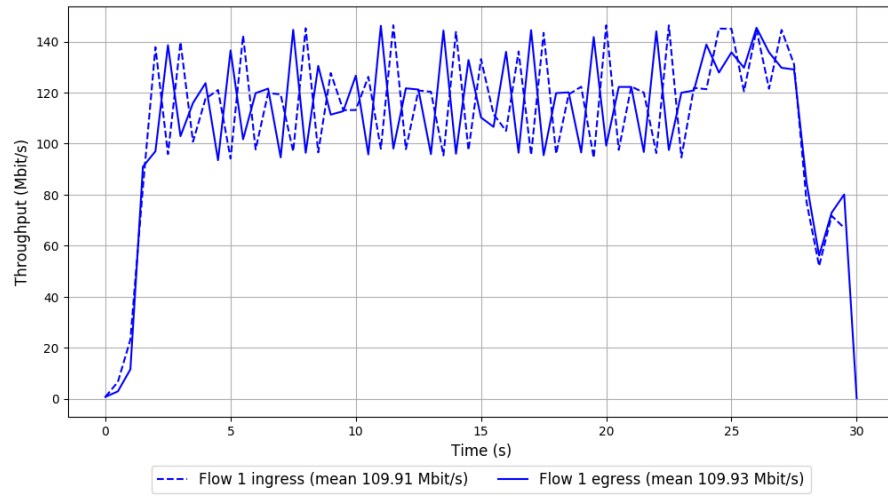
-- Flow 1:

Average throughput: 109.93 Mbit/s

95th percentile per-packet one-way delay: 130.778 ms

Loss rate: 0.00%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-02-16 02:26:25

End at: 2018-02-16 02:26:55

Below is generated by plot.py at 2018-02-16 04:51:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 100.09 Mbit/s

95th percentile per-packet one-way delay: 130.566 ms

Loss rate: 0.00%

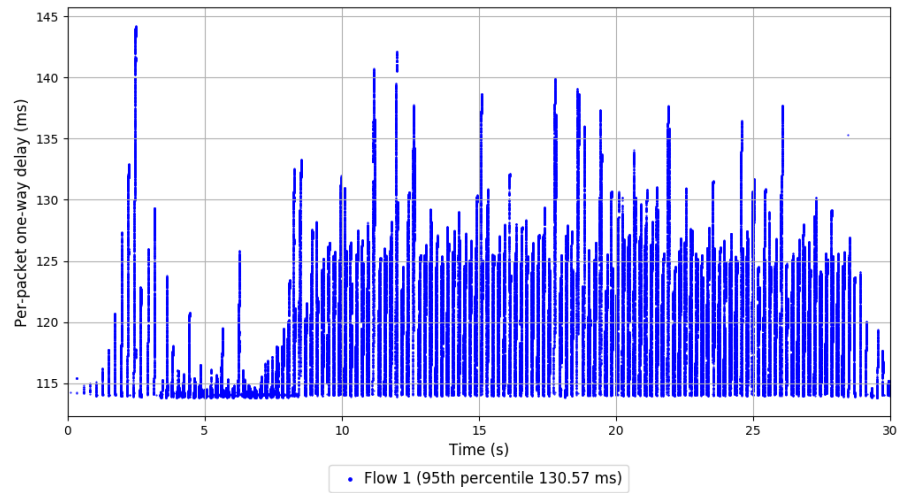
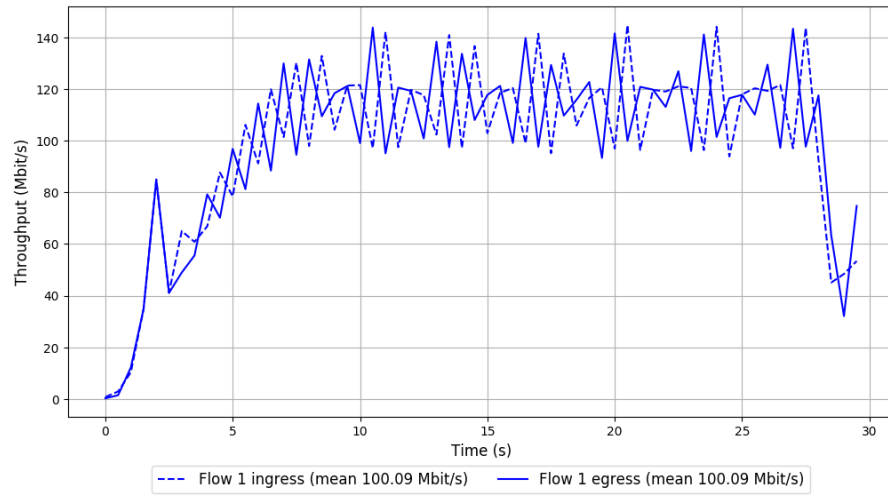
-- Flow 1:

Average throughput: 100.09 Mbit/s

95th percentile per-packet one-way delay: 130.566 ms

Loss rate: 0.00%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-02-16 02:41:40

End at: 2018-02-16 02:42:10

Below is generated by plot.py at 2018-02-16 04:51:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 65.04 Mbit/s

95th percentile per-packet one-way delay: 93.668 ms

Loss rate: 0.00%

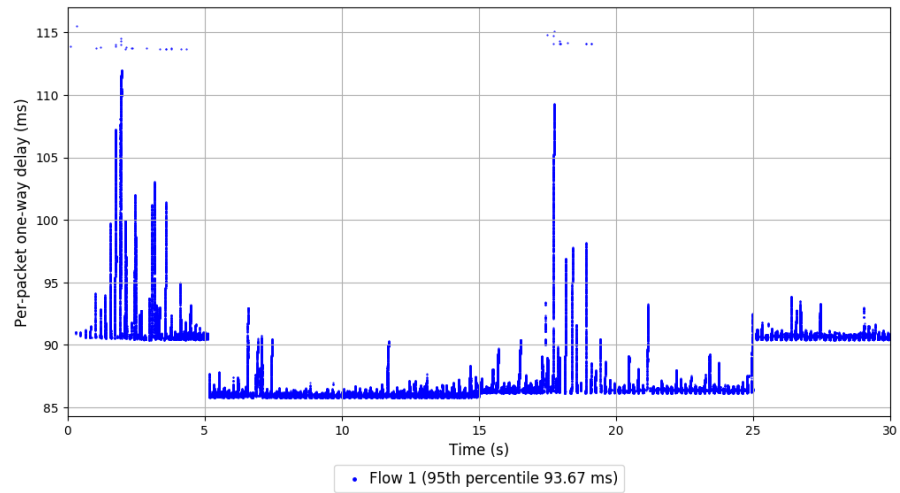
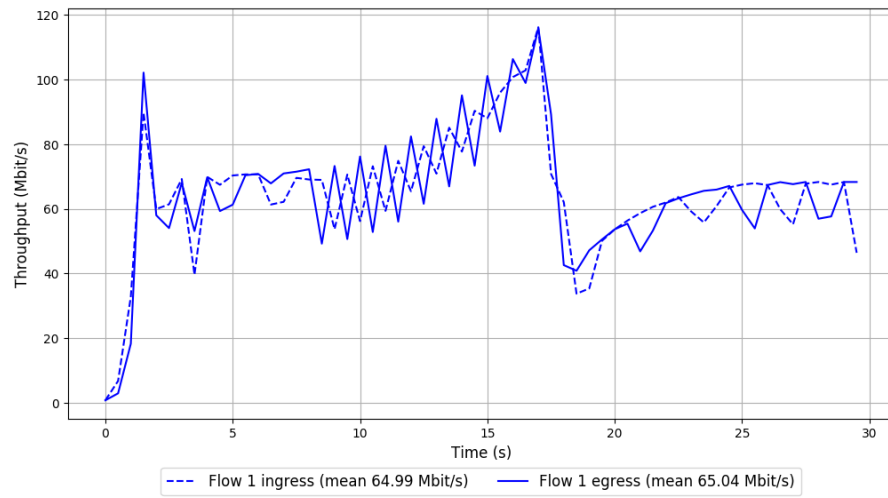
-- Flow 1:

Average throughput: 65.04 Mbit/s

95th percentile per-packet one-way delay: 93.668 ms

Loss rate: 0.00%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-02-16 02:56:40

End at: 2018-02-16 02:57:10

Below is generated by plot.py at 2018-02-16 04:51:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 130.44 Mbit/s

95th percentile per-packet one-way delay: 102.335 ms

Loss rate: 0.00%

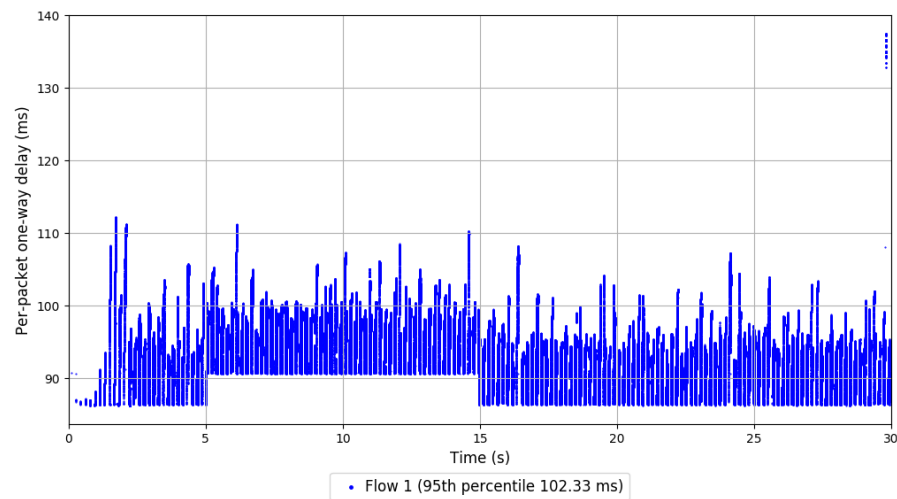
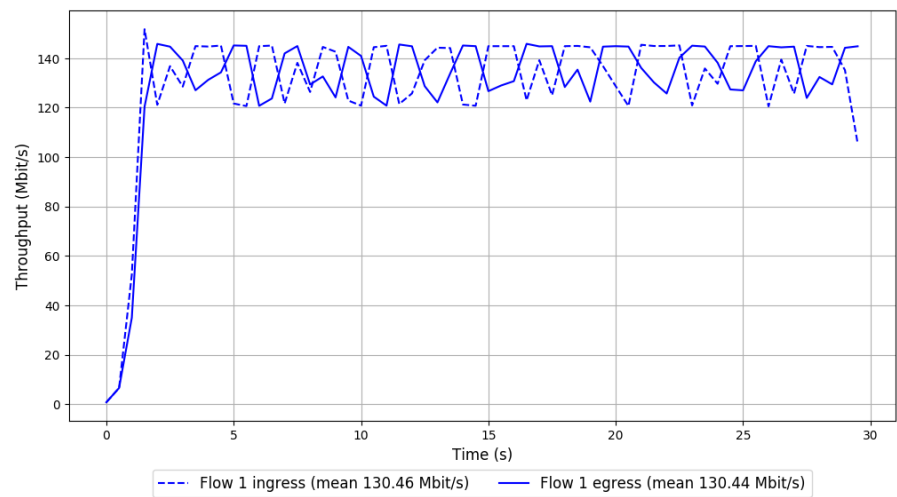
-- Flow 1:

Average throughput: 130.44 Mbit/s

95th percentile per-packet one-way delay: 102.335 ms

Loss rate: 0.00%

Run 10: Report of TCP Cubic — Data Link

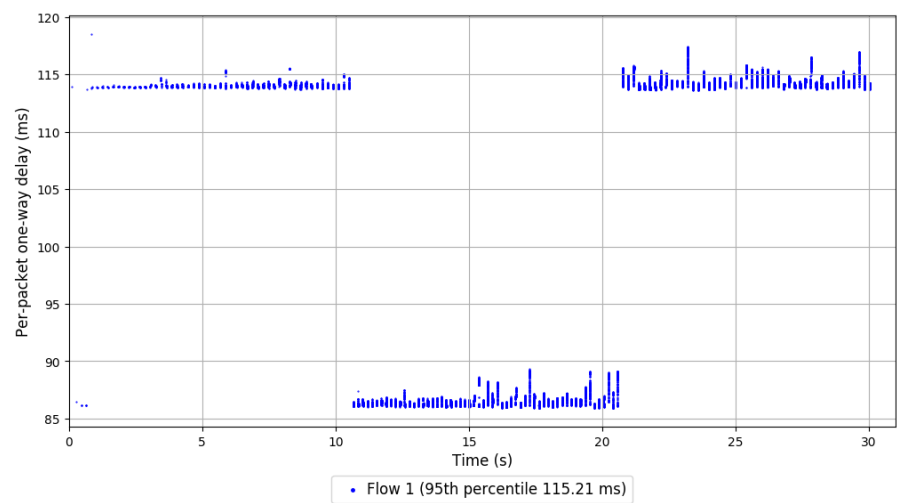
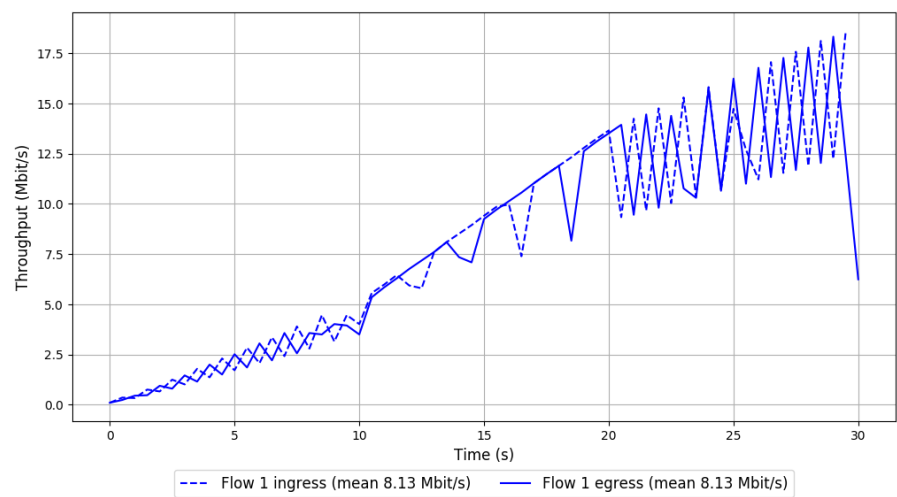


```
Run 1: Statistics of LEDBAT

Start at: 2018-02-16 00:36:34
End at: 2018-02-16 00:37:04

# Below is generated by plot.py at 2018-02-16 04:51:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 8.13 Mbit/s
95th percentile per-packet one-way delay: 115.206 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 8.13 Mbit/s
95th percentile per-packet one-way delay: 115.206 ms
Loss rate: 0.00%
```

Run 1: Report of LEDBAT — Data Link

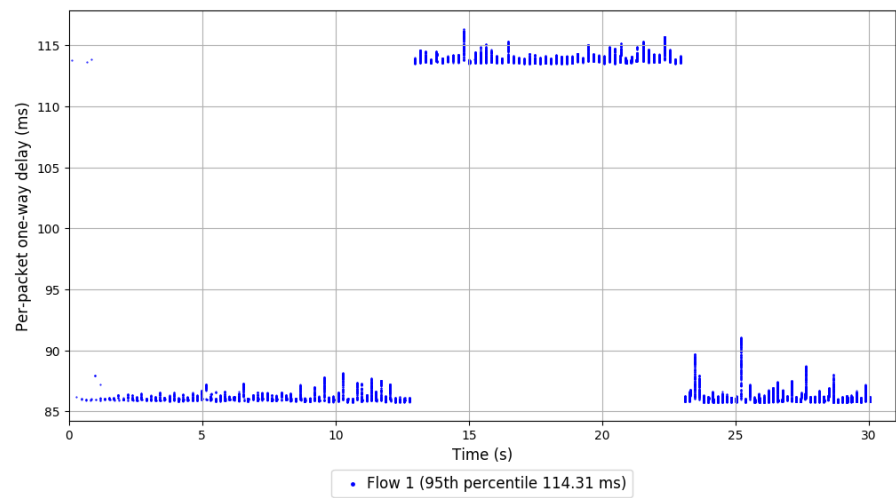
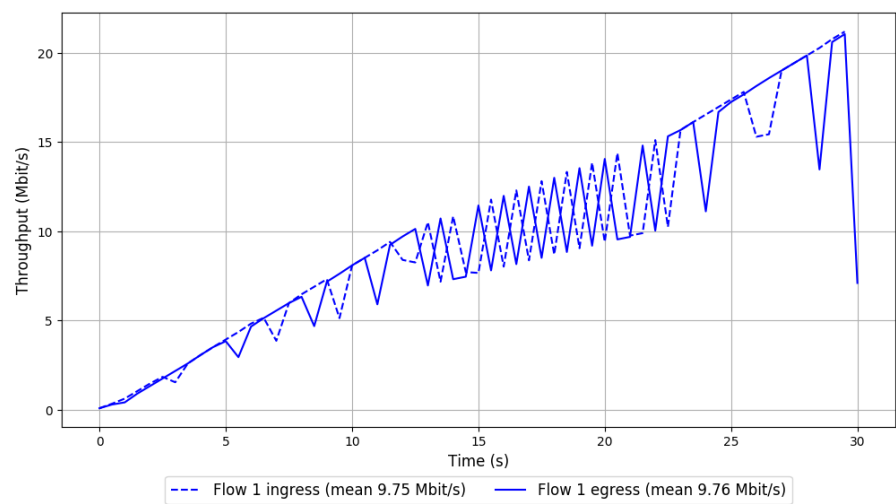


```
Run 2: Statistics of LEDBAT

Start at: 2018-02-16 00:51:32
End at: 2018-02-16 00:52:02

# Below is generated by plot.py at 2018-02-16 04:51:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 9.76 Mbit/s
95th percentile per-packet one-way delay: 114.313 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 9.76 Mbit/s
95th percentile per-packet one-way delay: 114.313 ms
Loss rate: 0.00%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-02-16 01:06:46

End at: 2018-02-16 01:07:16

Below is generated by plot.py at 2018-02-16 04:51:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 9.56 Mbit/s

95th percentile per-packet one-way delay: 114.929 ms

Loss rate: 0.86%

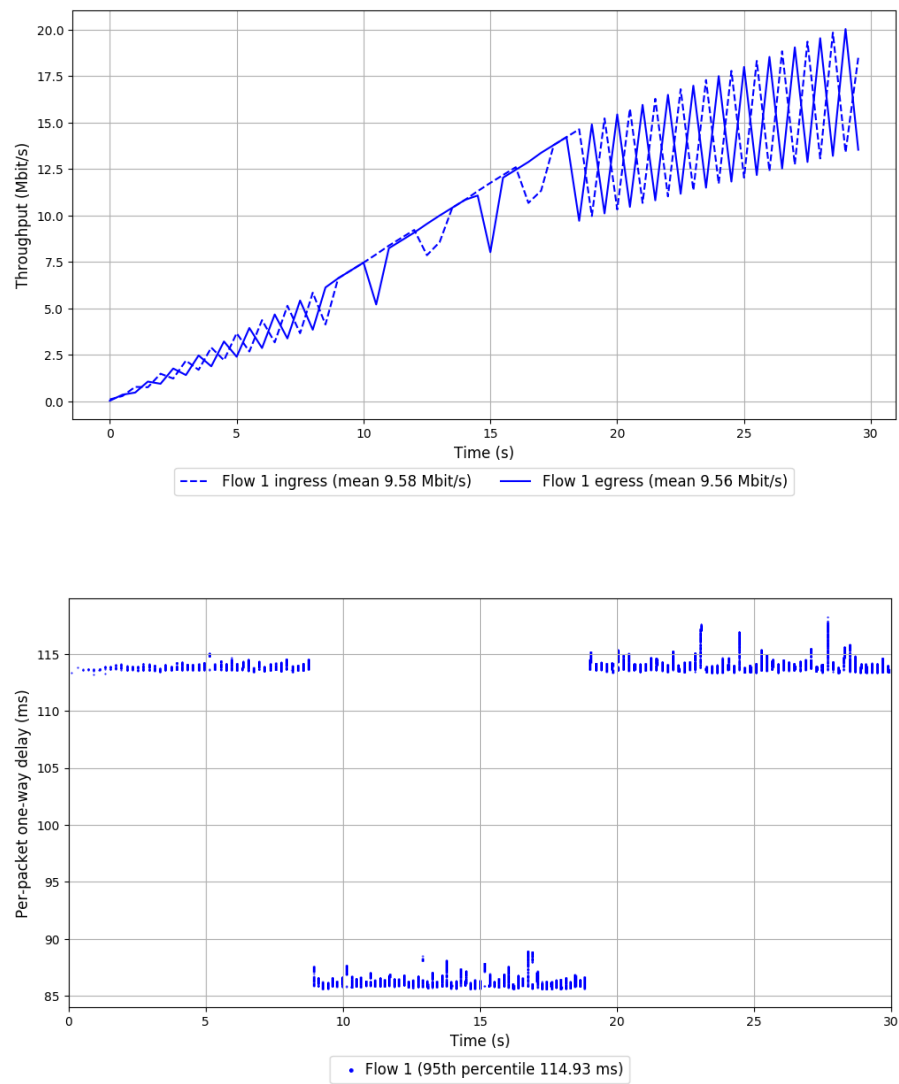
-- Flow 1:

Average throughput: 9.56 Mbit/s

95th percentile per-packet one-way delay: 114.929 ms

Loss rate: 0.86%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-02-16 01:22:07

End at: 2018-02-16 01:22:37

Below is generated by plot.py at 2018-02-16 04:51:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 10.98 Mbit/s

95th percentile per-packet one-way delay: 92.340 ms

Loss rate: 0.00%

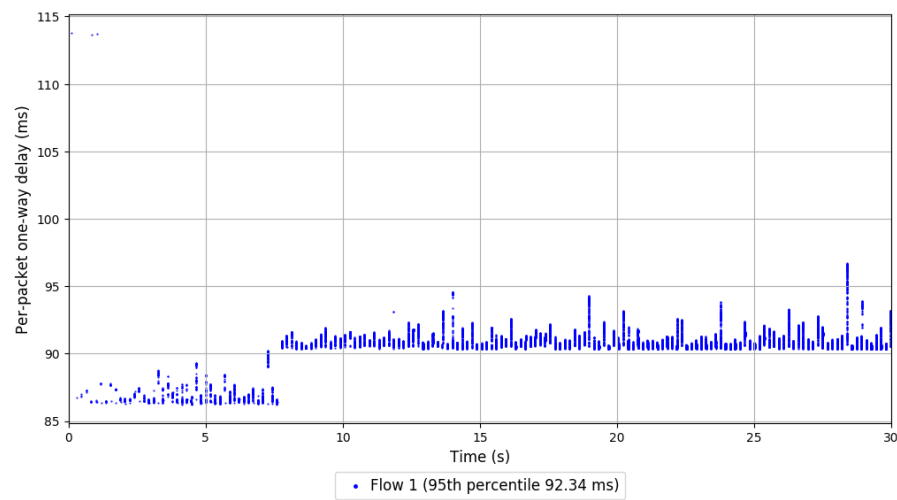
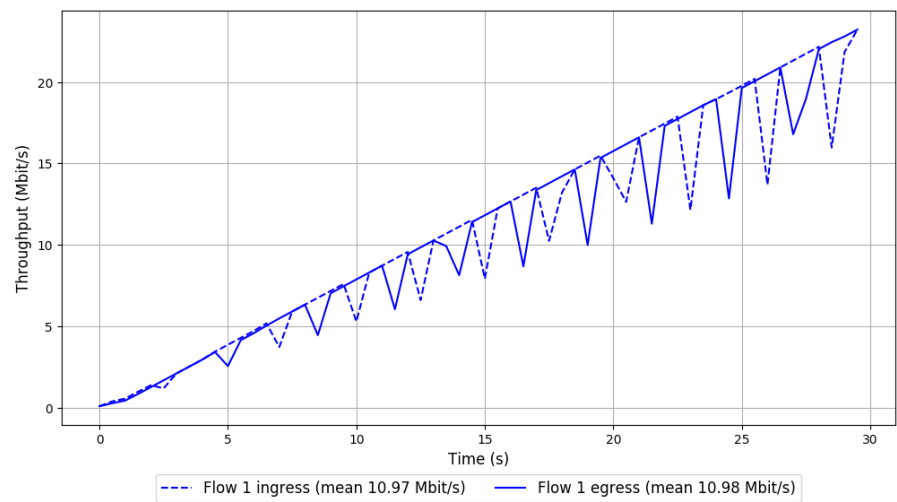
-- Flow 1:

Average throughput: 10.98 Mbit/s

95th percentile per-packet one-way delay: 92.340 ms

Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

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

End at: 2018-02-16 01:37:48

Below is generated by plot.py at 2018-02-16 04:51:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.39 Mbit/s

95th percentile per-packet one-way delay: 91.310 ms

Loss rate: 0.00%

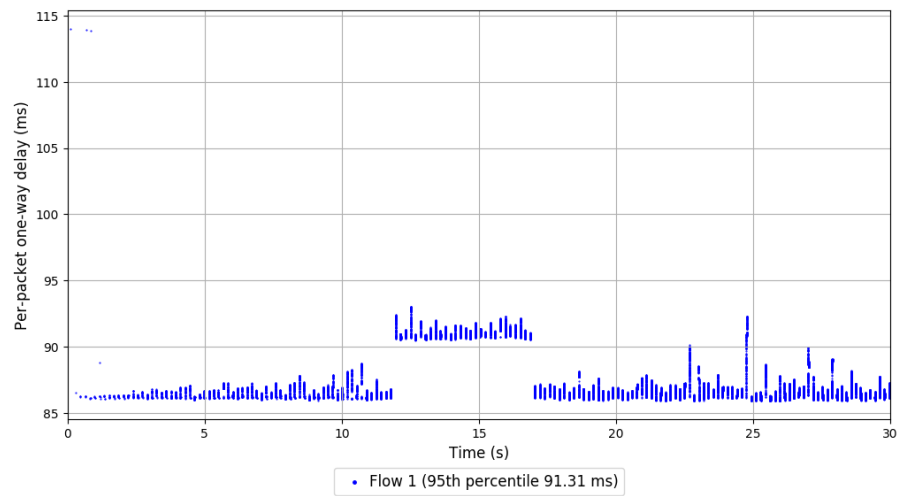
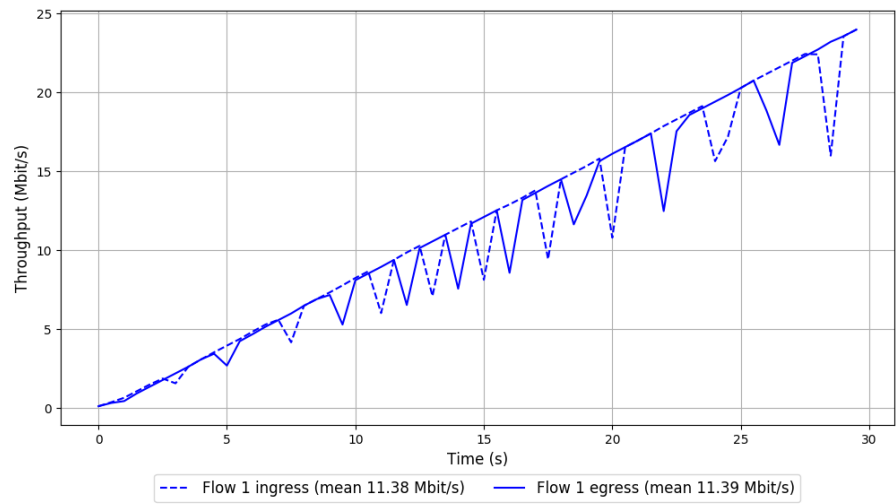
-- Flow 1:

Average throughput: 11.39 Mbit/s

95th percentile per-packet one-way delay: 91.310 ms

Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-02-16 01:52:34

End at: 2018-02-16 01:53:04

Below is generated by plot.py at 2018-02-16 04:51:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 8.79 Mbit/s

95th percentile per-packet one-way delay: 115.746 ms

Loss rate: 0.81%

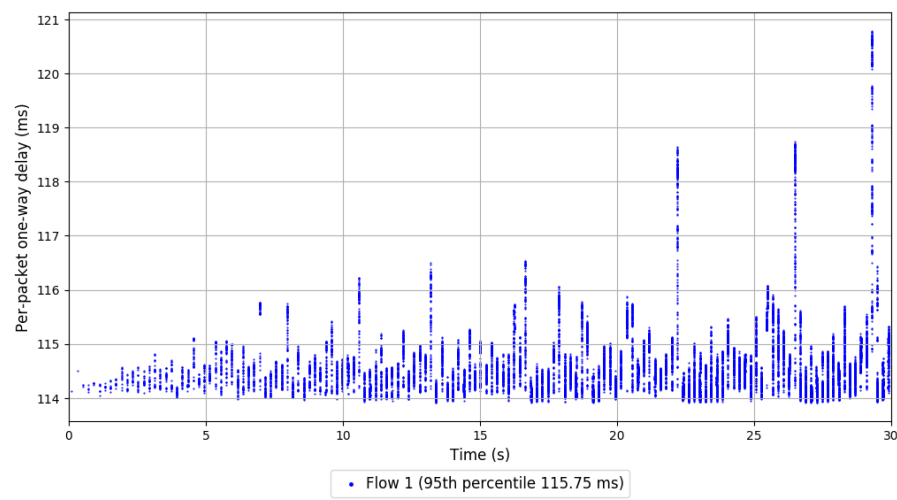
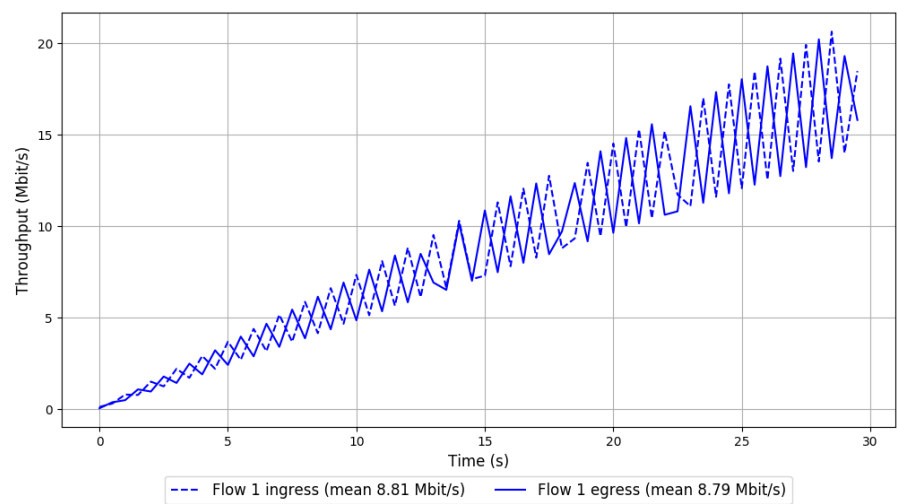
-- Flow 1:

Average throughput: 8.79 Mbit/s

95th percentile per-packet one-way delay: 115.746 ms

Loss rate: 0.81%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-02-16 02:06:59

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

Below is generated by plot.py at 2018-02-16 04:51:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.53 Mbit/s

95th percentile per-packet one-way delay: 115.944 ms

Loss rate: 0.00%

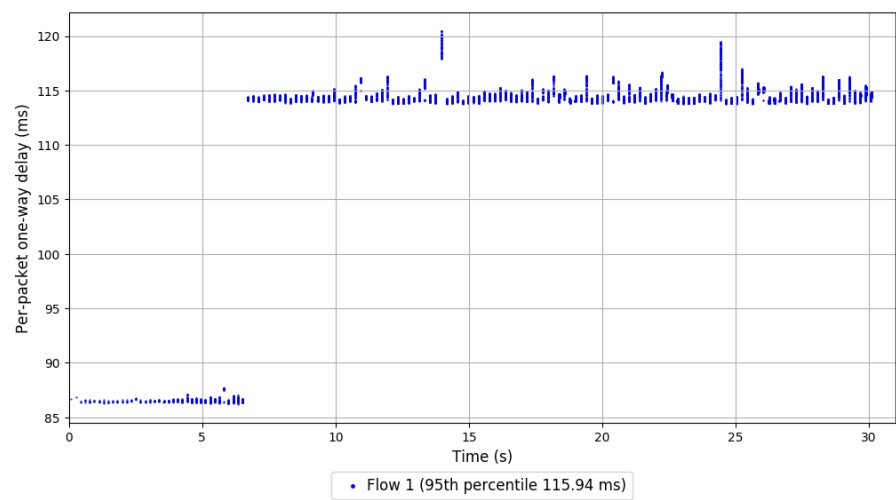
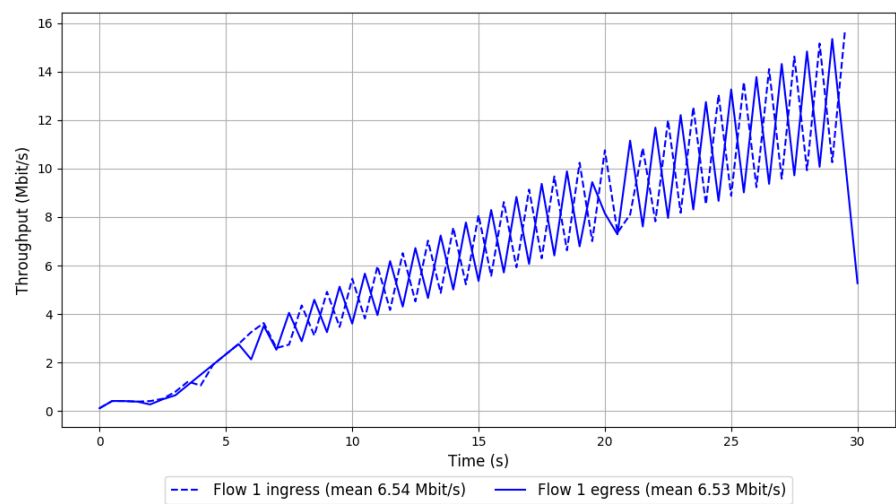
-- Flow 1:

Average throughput: 6.53 Mbit/s

95th percentile per-packet one-way delay: 115.944 ms

Loss rate: 0.00%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

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

End at: 2018-02-16 02:22:48

Below is generated by plot.py at 2018-02-16 04:51:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 9.59 Mbit/s

95th percentile per-packet one-way delay: 114.650 ms

Loss rate: 0.00%

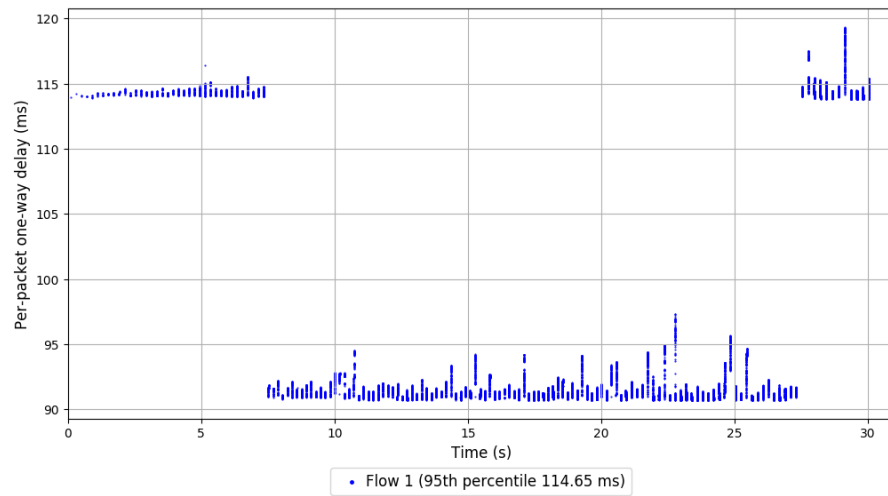
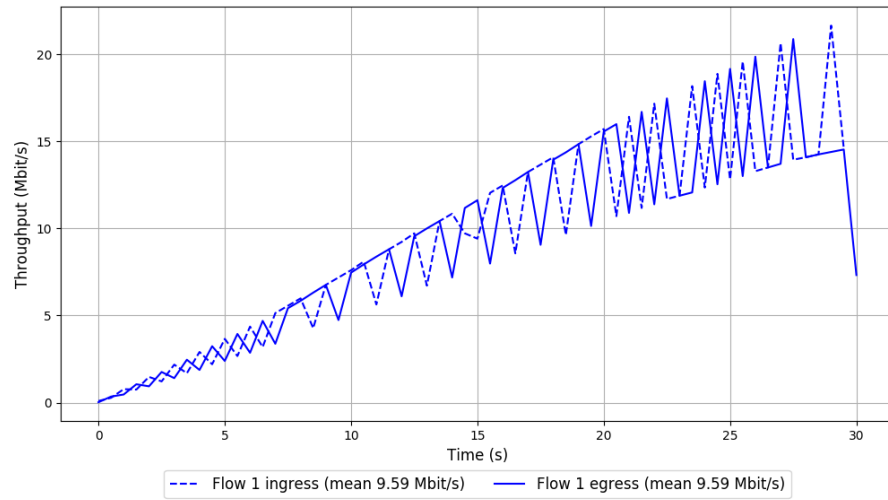
-- Flow 1:

Average throughput: 9.59 Mbit/s

95th percentile per-packet one-way delay: 114.650 ms

Loss rate: 0.00%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

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

End at: 2018-02-16 02:38:07

Below is generated by plot.py at 2018-02-16 04:51:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 10.48 Mbit/s

95th percentile per-packet one-way delay: 92.068 ms

Loss rate: 0.00%

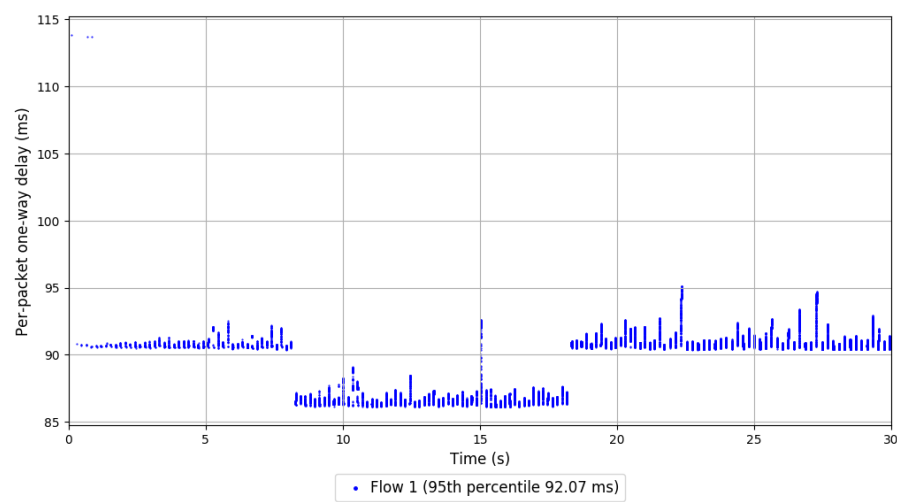
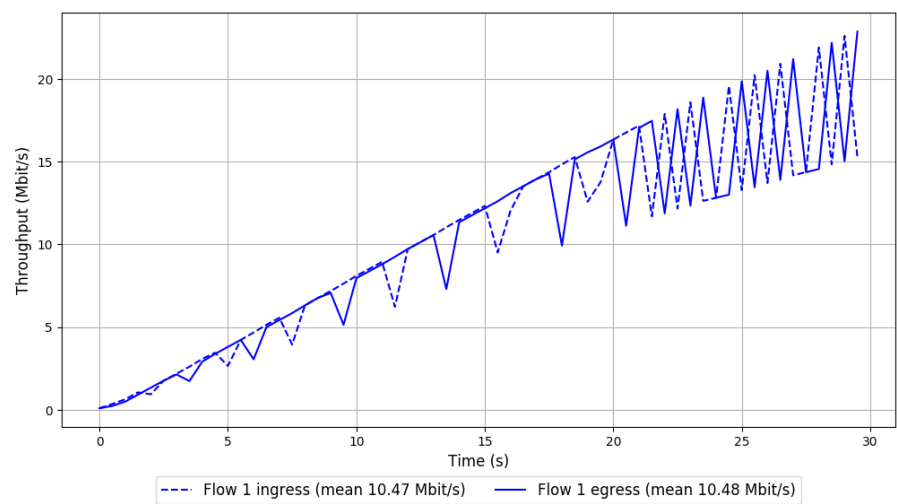
-- Flow 1:

Average throughput: 10.48 Mbit/s

95th percentile per-packet one-way delay: 92.068 ms

Loss rate: 0.00%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-02-16 02:52:42

End at: 2018-02-16 02:53:12

Below is generated by plot.py at 2018-02-16 04:51:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.89 Mbit/s

95th percentile per-packet one-way delay: 88.437 ms

Loss rate: 0.00%

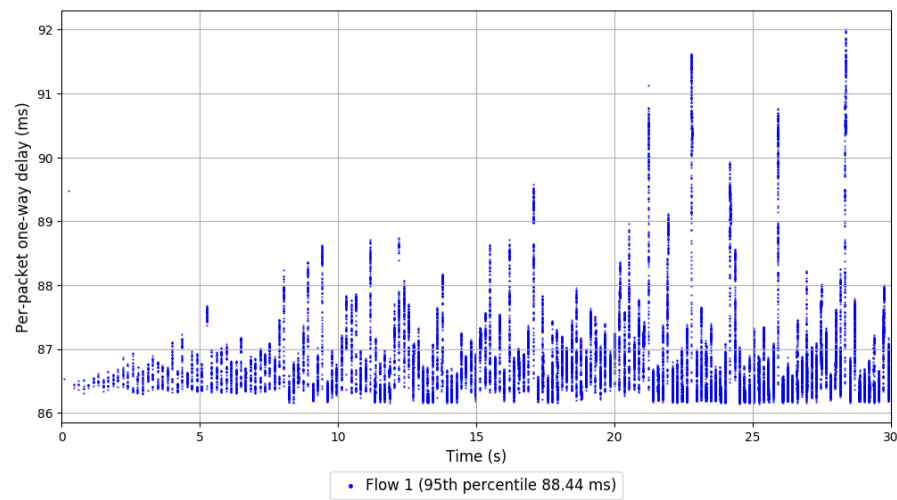
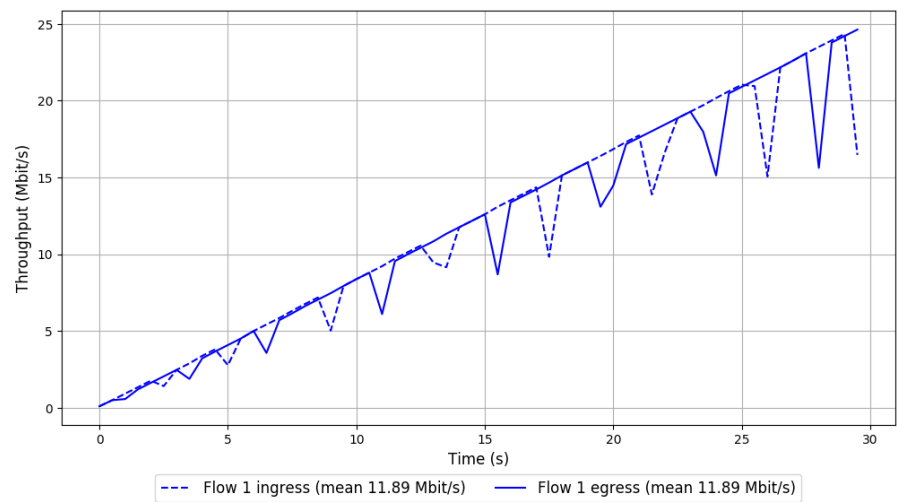
-- Flow 1:

Average throughput: 11.89 Mbit/s

95th percentile per-packet one-way delay: 88.437 ms

Loss rate: 0.00%

Run 10: Report of LEDBAT — Data Link

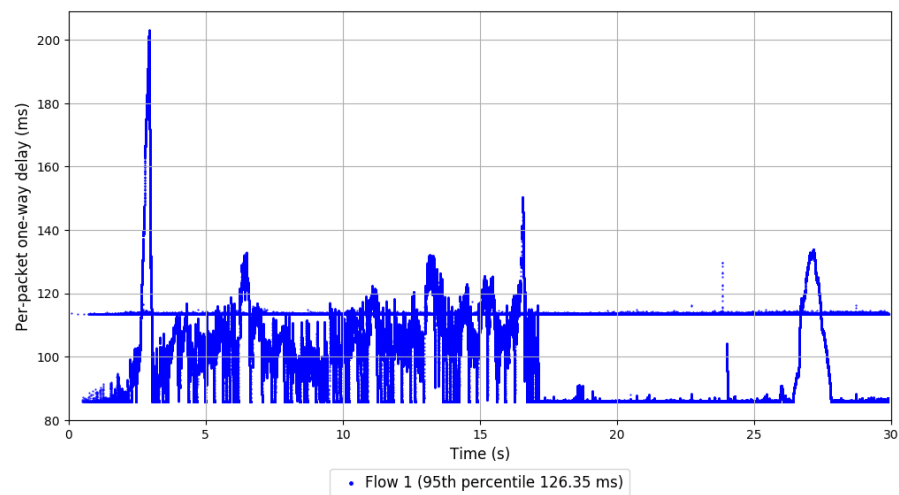
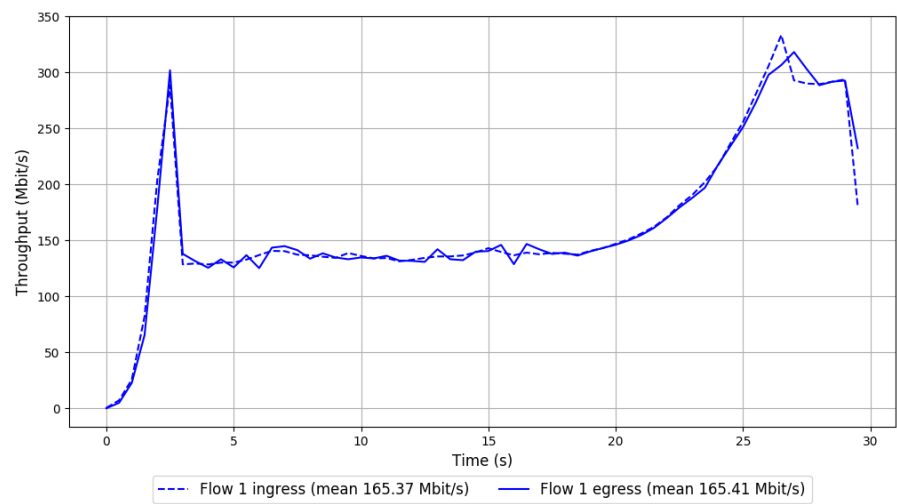


```
Run 1: Statistics of PCC

Start at: 2018-02-16 00:50:00
End at: 2018-02-16 00:50:30

# Below is generated by plot.py at 2018-02-16 04:53:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 165.41 Mbit/s
95th percentile per-packet one-way delay: 126.353 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 165.41 Mbit/s
95th percentile per-packet one-way delay: 126.353 ms
Loss rate: 0.00%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2018-02-16 01:05:07

End at: 2018-02-16 01:05:37

Below is generated by plot.py at 2018-02-16 04:56:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 295.56 Mbit/s

95th percentile per-packet one-way delay: 123.975 ms

Loss rate: 0.42%

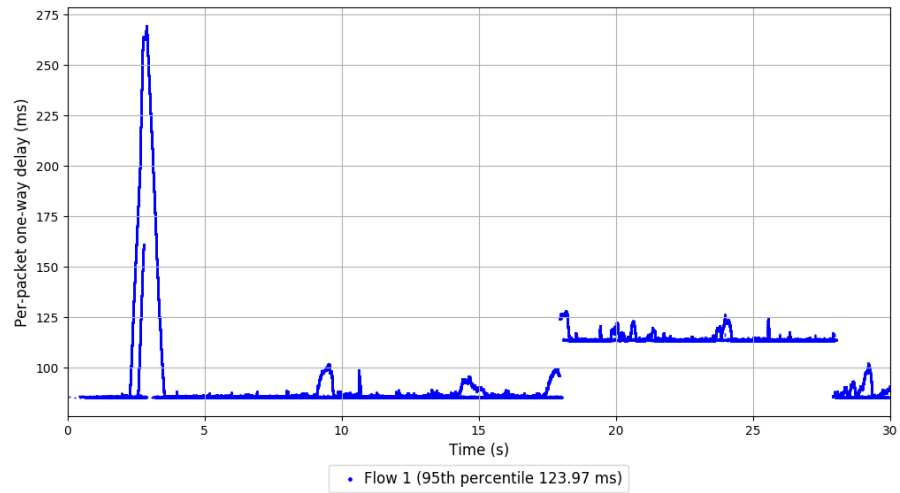
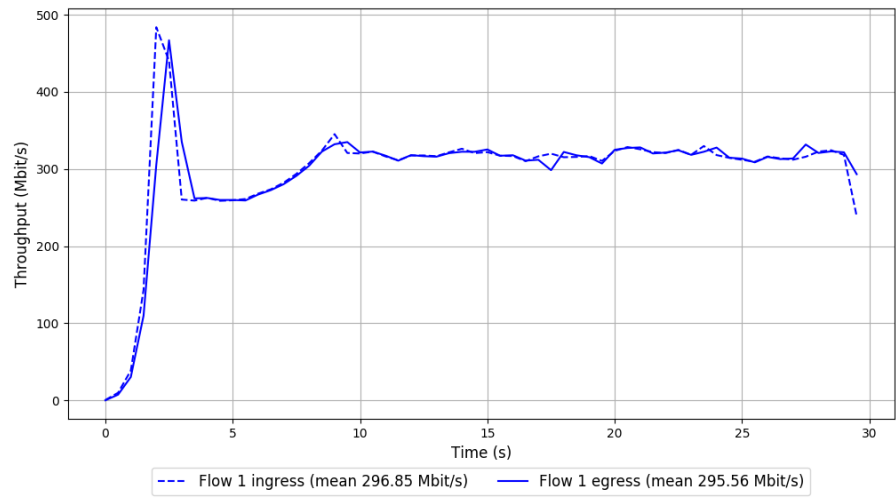
-- Flow 1:

Average throughput: 295.56 Mbit/s

95th percentile per-packet one-way delay: 123.975 ms

Loss rate: 0.42%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

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

End at: 2018-02-16 01:20:50

Below is generated by plot.py at 2018-02-16 04:56:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 310.85 Mbit/s

95th percentile per-packet one-way delay: 148.143 ms

Loss rate: 0.65%

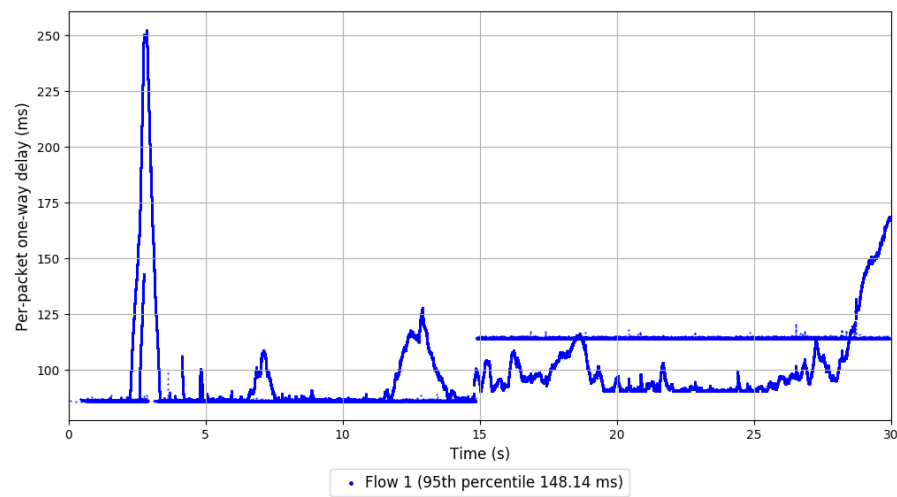
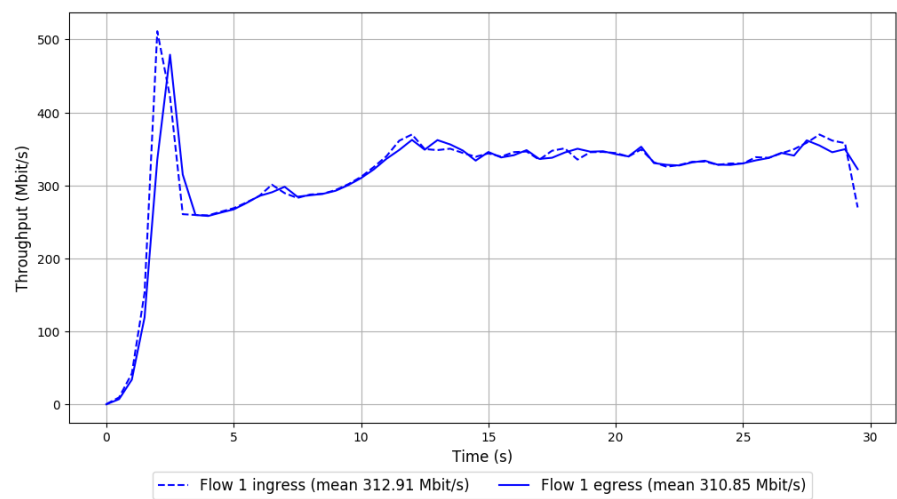
-- Flow 1:

Average throughput: 310.85 Mbit/s

95th percentile per-packet one-way delay: 148.143 ms

Loss rate: 0.65%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-02-16 01:35:47

End at: 2018-02-16 01:36:17

Below is generated by plot.py at 2018-02-16 04:56:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 258.80 Mbit/s

95th percentile per-packet one-way delay: 130.206 ms

Loss rate: 0.65%

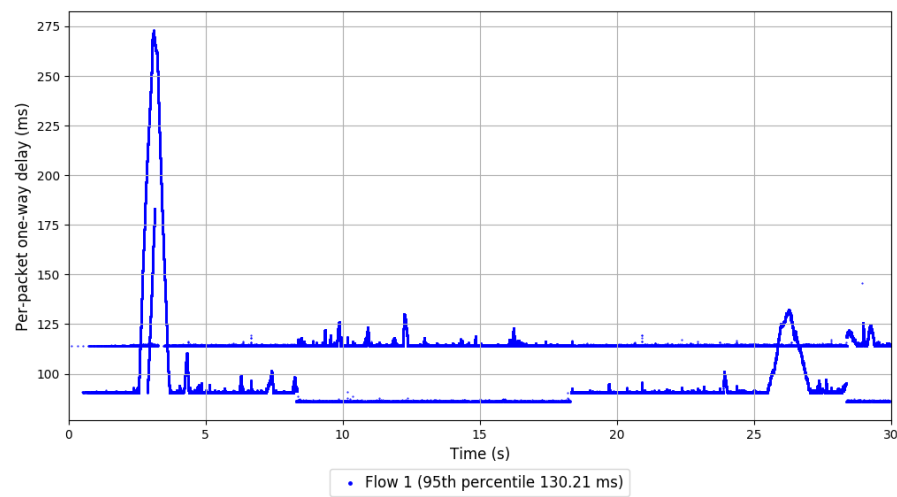
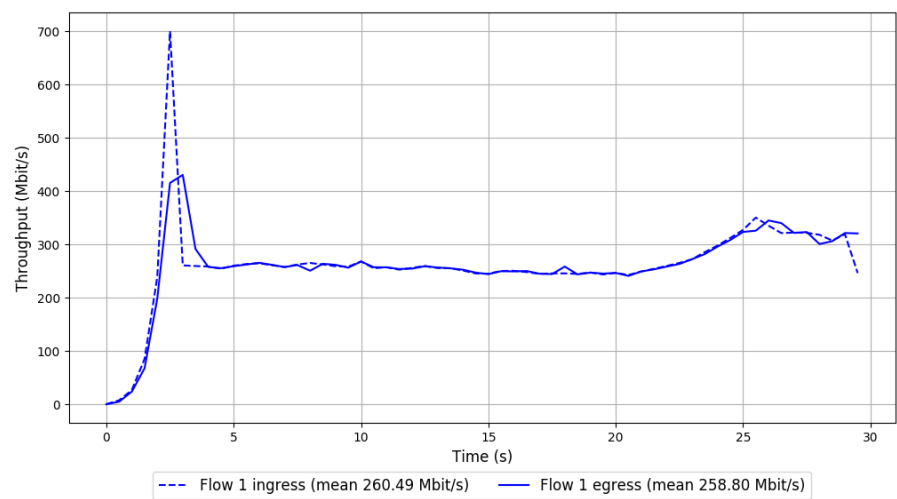
-- Flow 1:

Average throughput: 258.80 Mbit/s

95th percentile per-packet one-way delay: 130.206 ms

Loss rate: 0.65%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-02-16 01:50:50

End at: 2018-02-16 01:51:20

Below is generated by plot.py at 2018-02-16 04:56:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 163.25 Mbit/s

95th percentile per-packet one-way delay: 113.718 ms

Loss rate: 0.03%

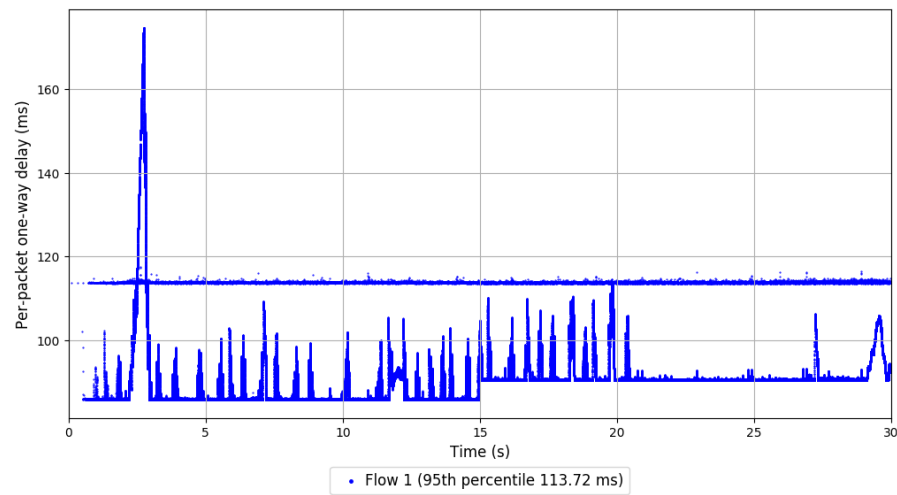
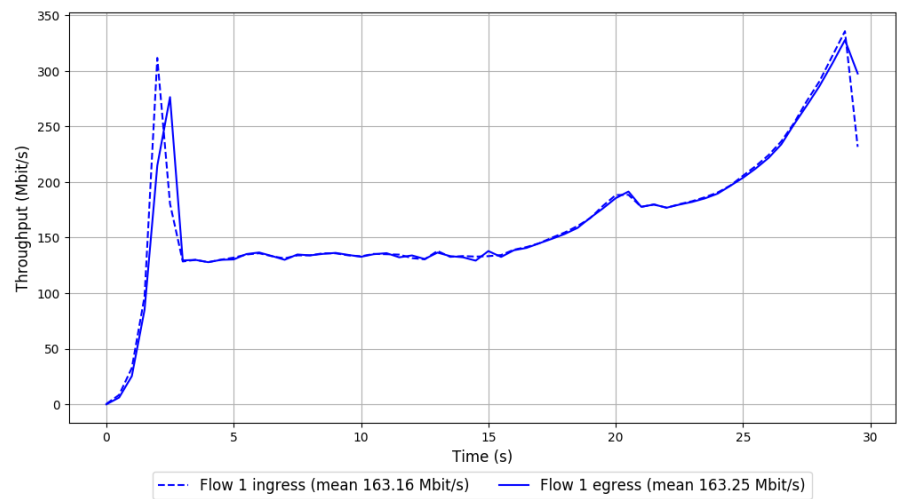
-- Flow 1:

Average throughput: 163.25 Mbit/s

95th percentile per-packet one-way delay: 113.718 ms

Loss rate: 0.03%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-02-16 02:05:37

End at: 2018-02-16 02:06:07

Below is generated by plot.py at 2018-02-16 04:56:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.57 Mbit/s

95th percentile per-packet one-way delay: 114.058 ms

Loss rate: 0.00%

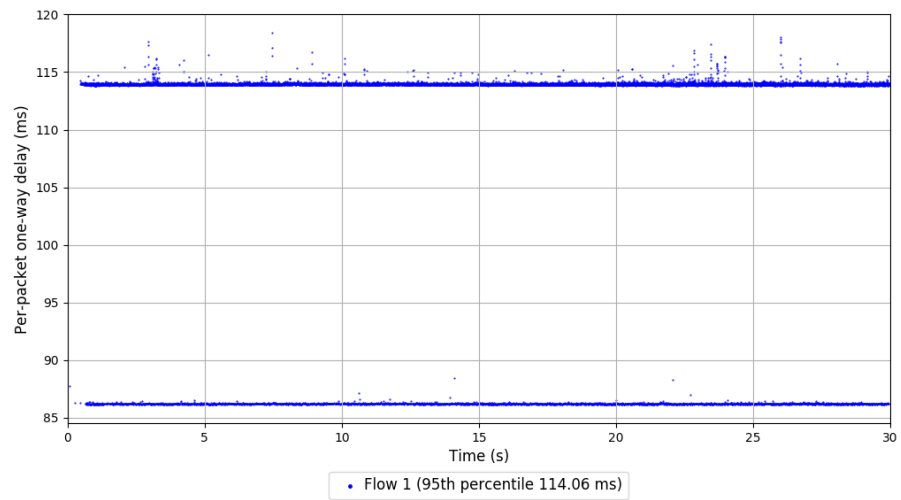
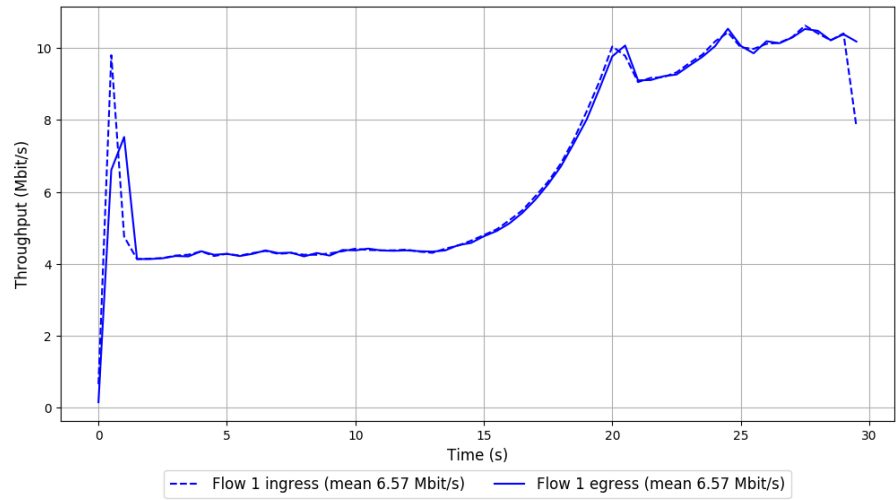
-- Flow 1:

Average throughput: 6.57 Mbit/s

95th percentile per-packet one-way delay: 114.058 ms

Loss rate: 0.00%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-02-16 02:20:40

End at: 2018-02-16 02:21:10

Below is generated by plot.py at 2018-02-16 04:56:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 285.11 Mbit/s

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

Loss rate: 0.56%

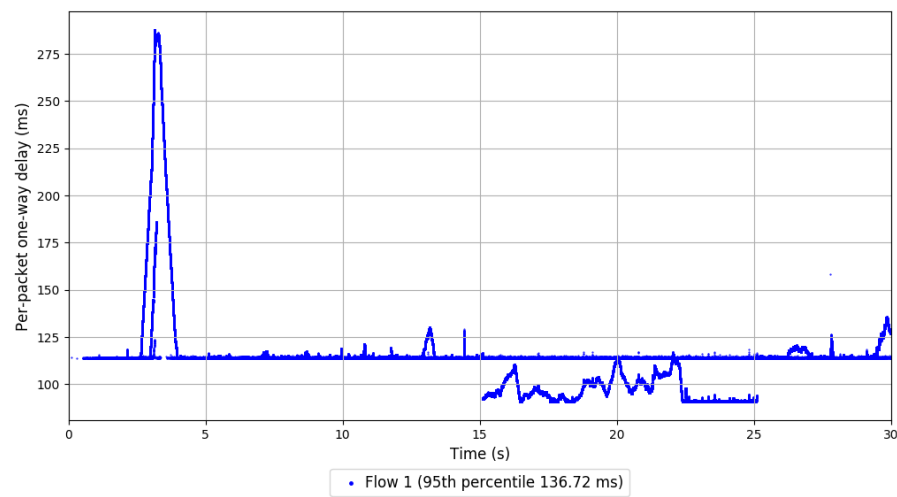
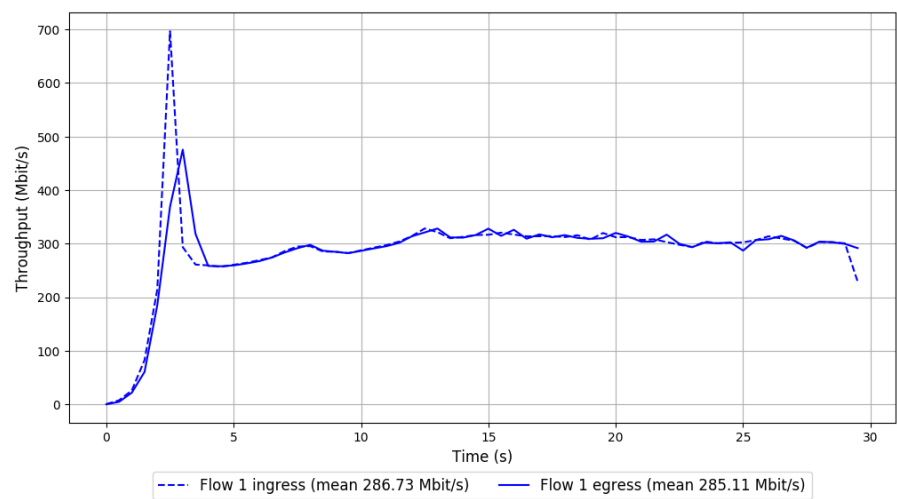
-- Flow 1:

Average throughput: 285.11 Mbit/s

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

Loss rate: 0.56%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-02-16 02:36:03

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

Below is generated by plot.py at 2018-02-16 04:56:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 290.02 Mbit/s

95th percentile per-packet one-way delay: 131.597 ms

Loss rate: 0.47%

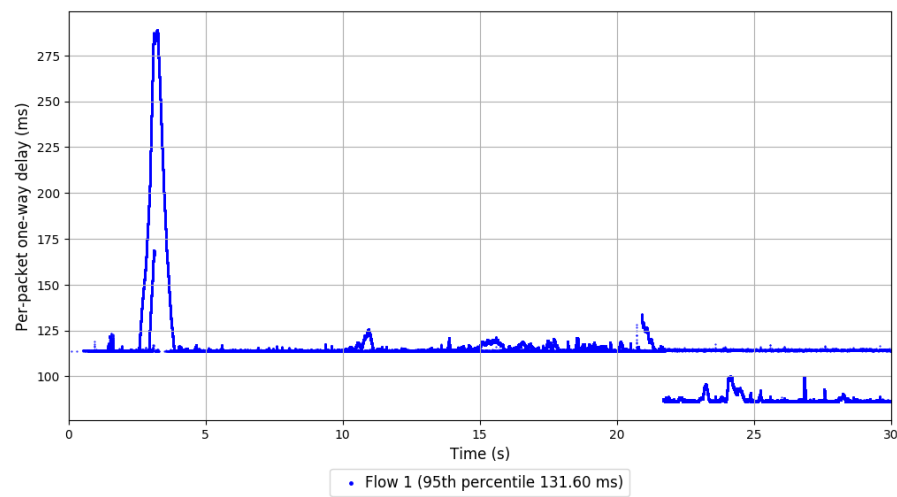
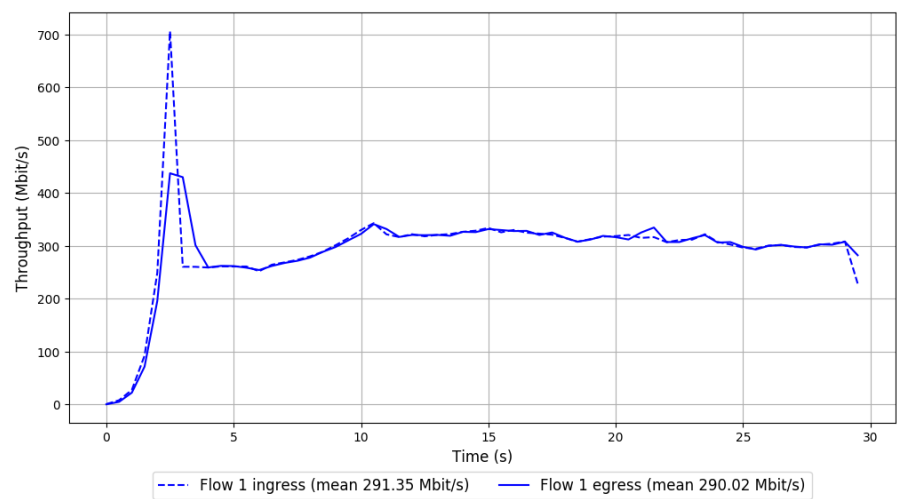
-- Flow 1:

Average throughput: 290.02 Mbit/s

95th percentile per-packet one-way delay: 131.597 ms

Loss rate: 0.47%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

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

End at: 2018-02-16 02:51:38

Below is generated by plot.py at 2018-02-16 04:57:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 279.52 Mbit/s

95th percentile per-packet one-way delay: 114.423 ms

Loss rate: 0.49%

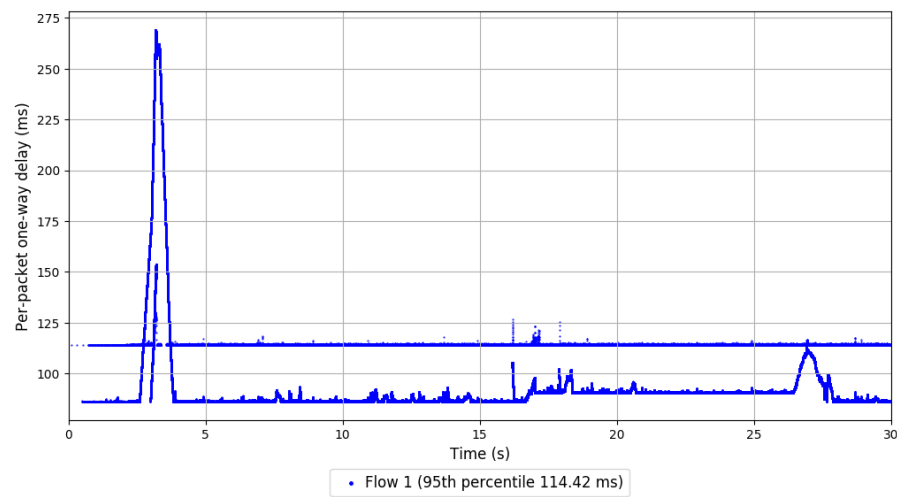
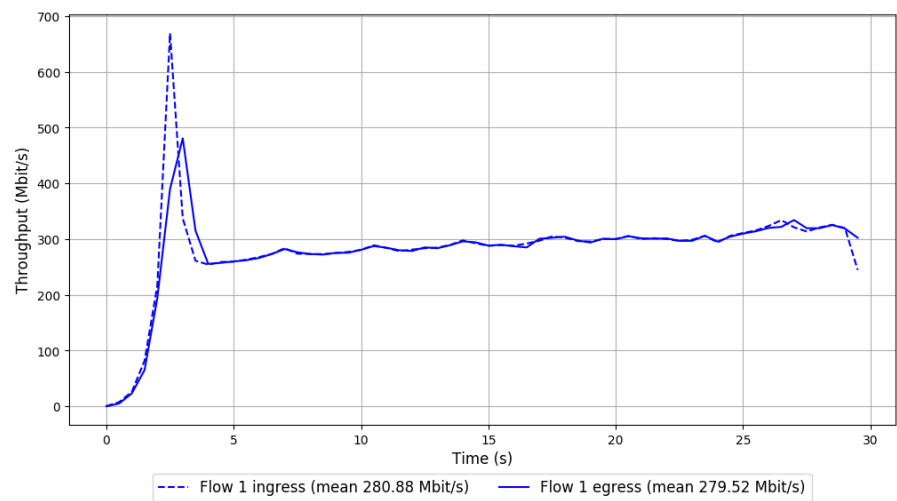
-- Flow 1:

Average throughput: 279.52 Mbit/s

95th percentile per-packet one-way delay: 114.423 ms

Loss rate: 0.49%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2018-02-16 03:06:54

End at: 2018-02-16 03:07:24

Below is generated by plot.py at 2018-02-16 04:59:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 288.11 Mbit/s

95th percentile per-packet one-way delay: 124.134 ms

Loss rate: 0.39%

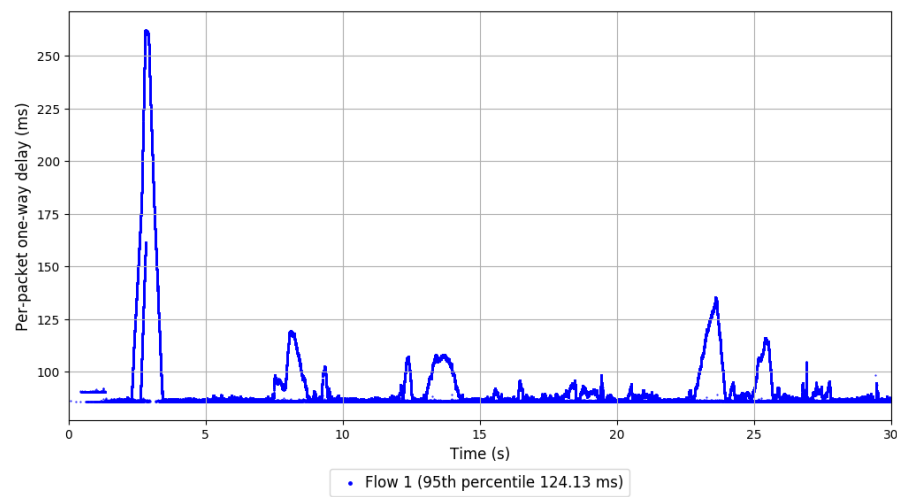
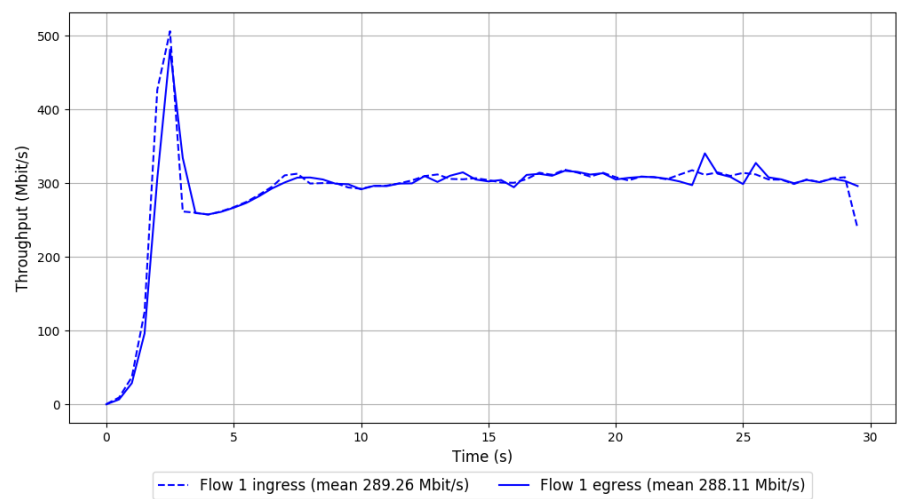
-- Flow 1:

Average throughput: 288.11 Mbit/s

95th percentile per-packet one-way delay: 124.134 ms

Loss rate: 0.39%

Run 10: Report of PCC — Data Link

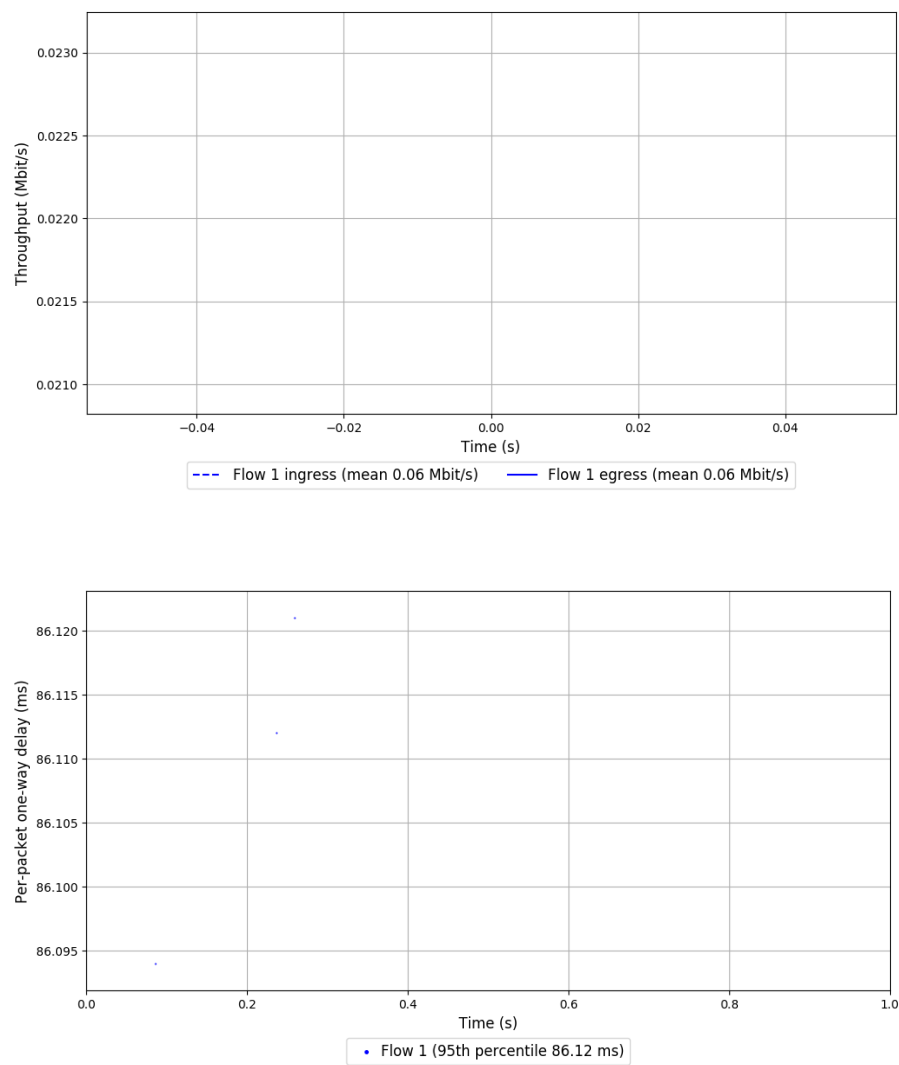


Run 1: Statistics of QUIC Cubic

Start at: 2018-02-16 00:45:12

End at: 2018-02-16 00:45:42

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-02-16 01:00:08

End at: 2018-02-16 01:00:38

Below is generated by plot.py at 2018-02-16 04:59:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.11 Mbit/s

95th percentile per-packet one-way delay: 113.499 ms

Loss rate: 0.00%

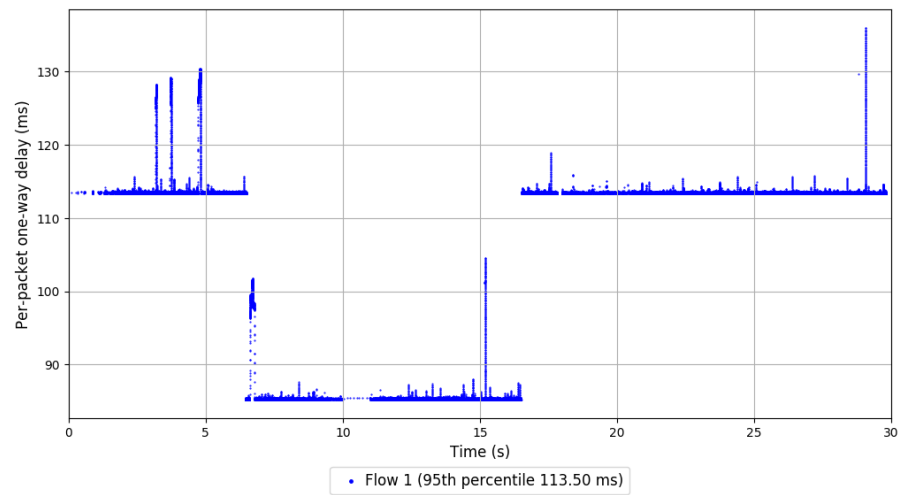
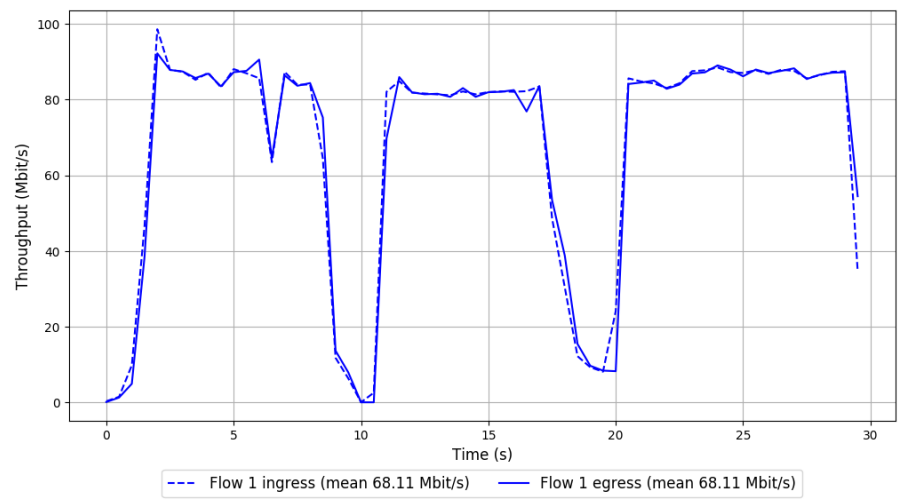
-- Flow 1:

Average throughput: 68.11 Mbit/s

95th percentile per-packet one-way delay: 113.499 ms

Loss rate: 0.00%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-02-16 01:15:43

End at: 2018-02-16 01:16:13

Below is generated by plot.py at 2018-02-16 04:59:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 66.95 Mbit/s

95th percentile per-packet one-way delay: 86.195 ms

Loss rate: 0.00%

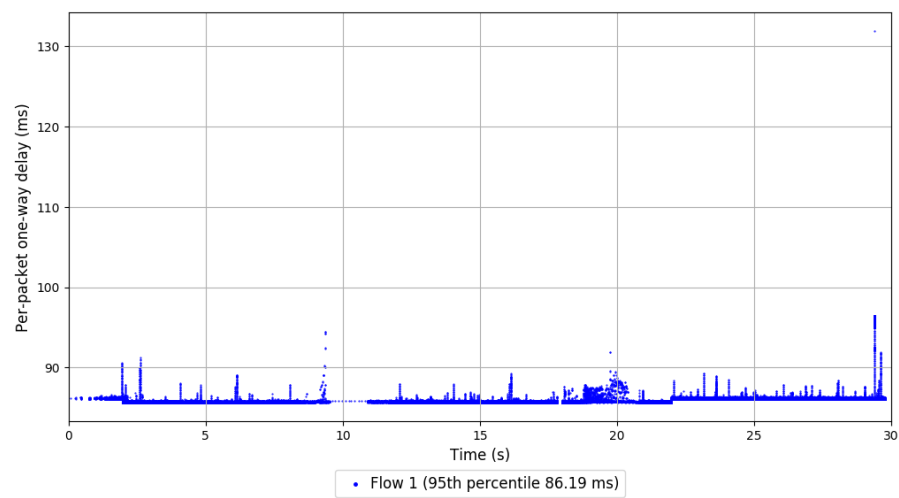
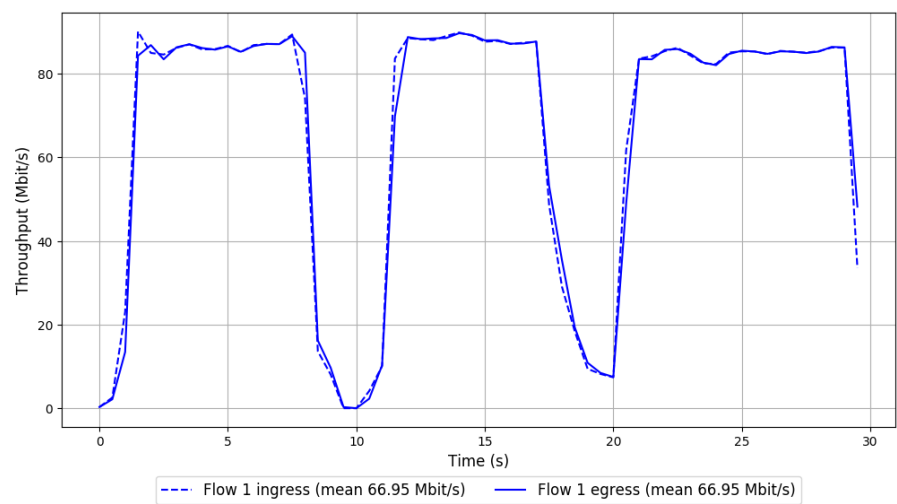
-- Flow 1:

Average throughput: 66.95 Mbit/s

95th percentile per-packet one-way delay: 86.195 ms

Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-02-16 01:30:54

End at: 2018-02-16 01:31:24

Below is generated by plot.py at 2018-02-16 04:59:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 67.39 Mbit/s

95th percentile per-packet one-way delay: 113.739 ms

Loss rate: 0.12%

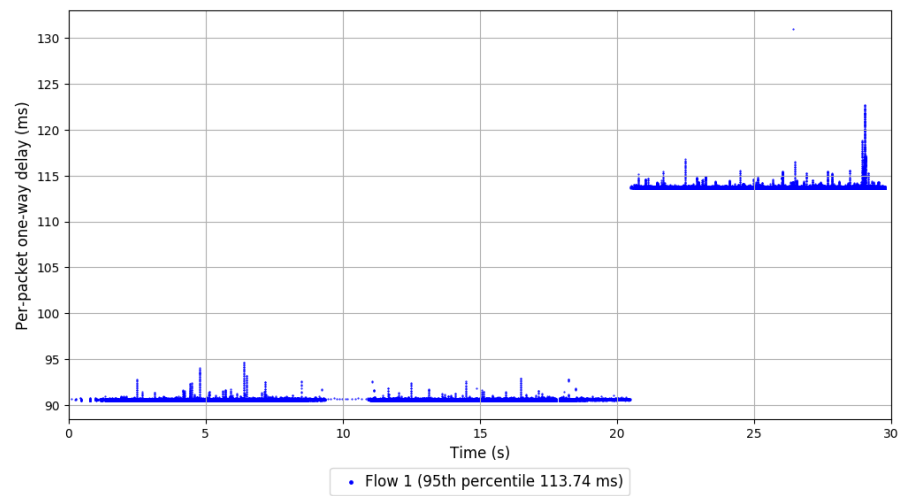
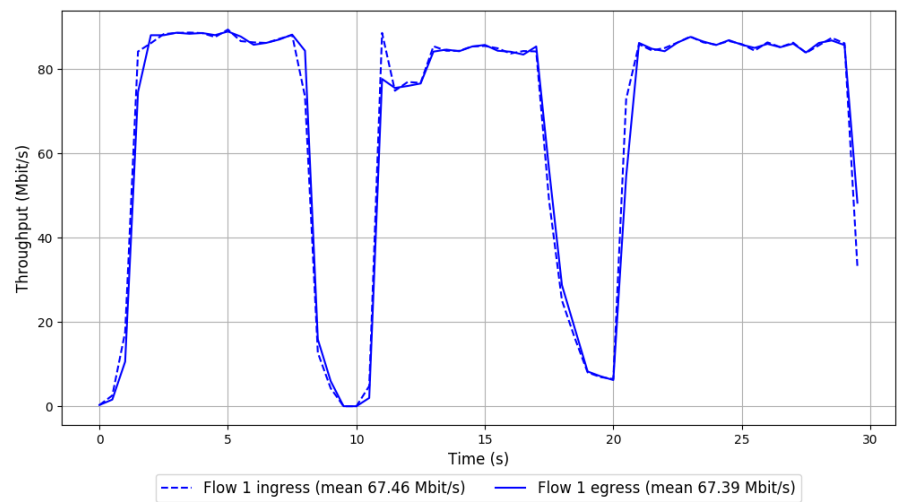
-- Flow 1:

Average throughput: 67.39 Mbit/s

95th percentile per-packet one-way delay: 113.739 ms

Loss rate: 0.12%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-02-16 01:46:00

End at: 2018-02-16 01:46:30

Below is generated by plot.py at 2018-02-16 04:59:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 61.49 Mbit/s

95th percentile per-packet one-way delay: 114.352 ms

Loss rate: 0.12%

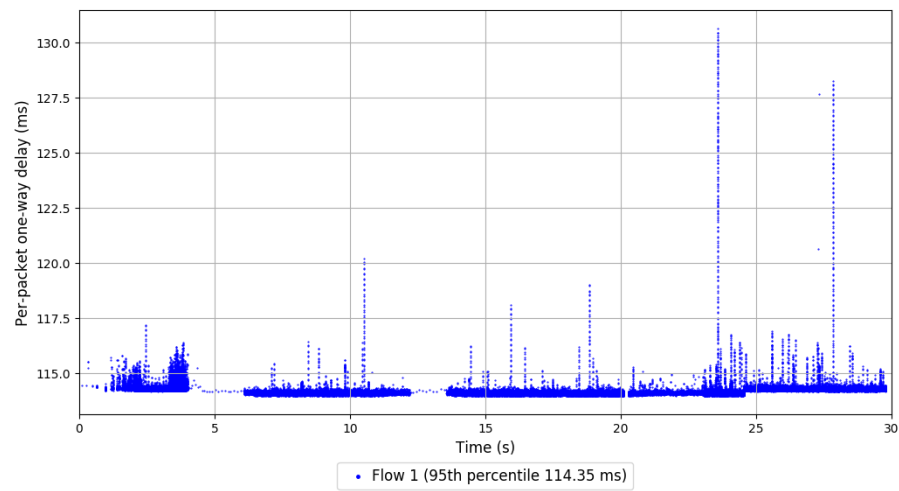
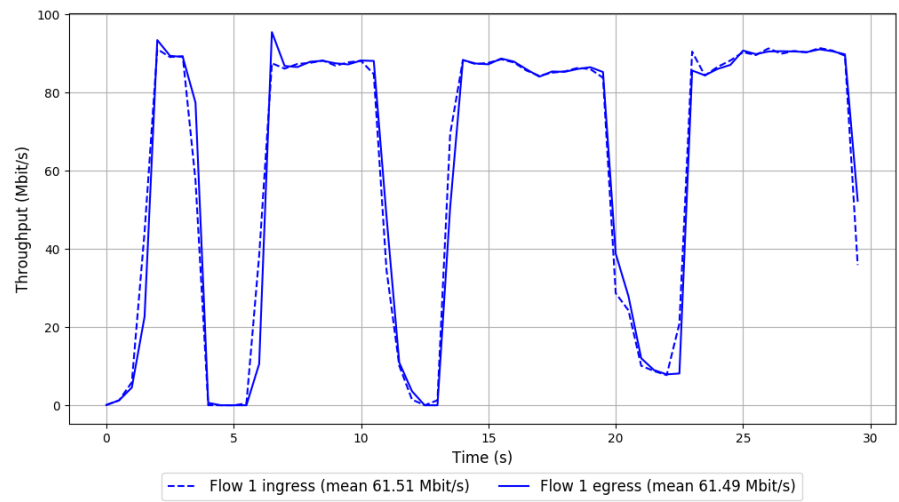
-- Flow 1:

Average throughput: 61.49 Mbit/s

95th percentile per-packet one-way delay: 114.352 ms

Loss rate: 0.12%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-02-16 02:00:48

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

Below is generated by plot.py at 2018-02-16 04:59:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.93 Mbit/s

95th percentile per-packet one-way delay: 113.979 ms

Loss rate: 0.00%

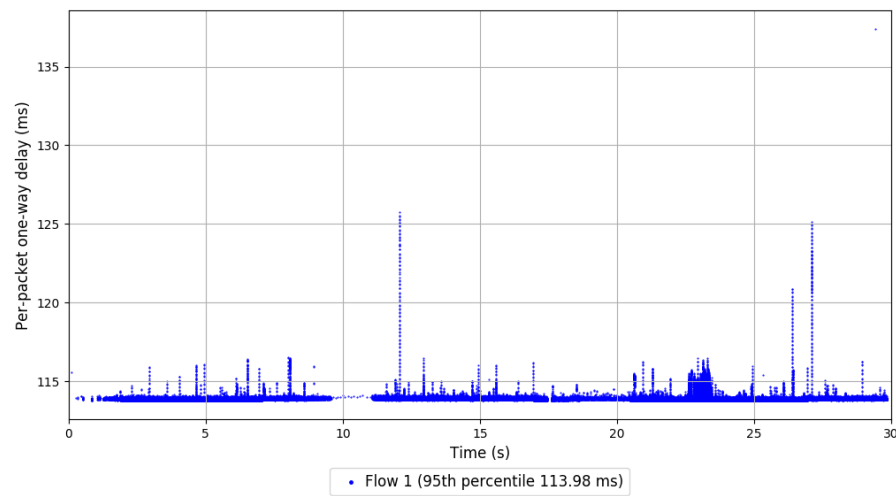
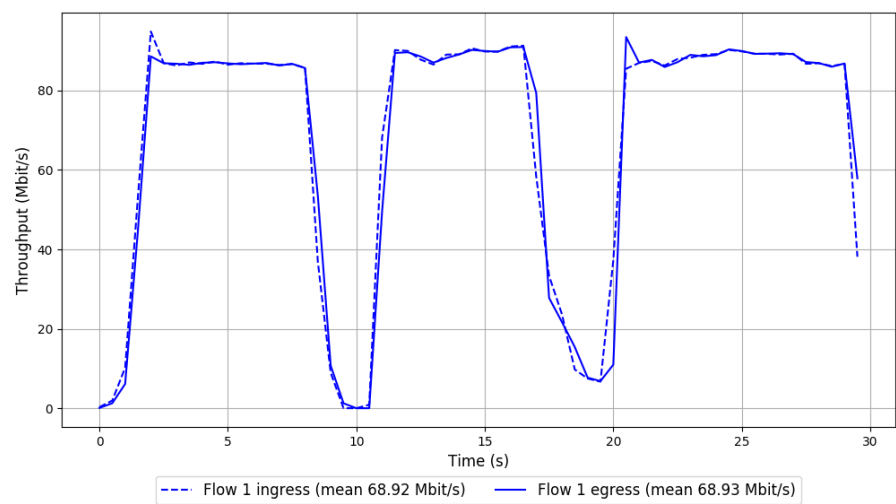
-- Flow 1:

Average throughput: 68.93 Mbit/s

95th percentile per-packet one-way delay: 113.979 ms

Loss rate: 0.00%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-02-16 02:15:42

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

Below is generated by plot.py at 2018-02-16 04:59:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 60.49 Mbit/s

95th percentile per-packet one-way delay: 114.392 ms

Loss rate: 0.00%

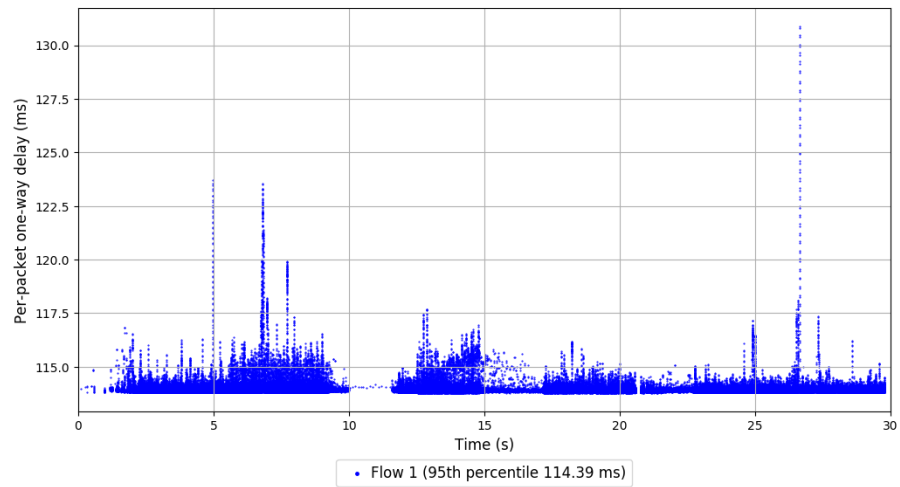
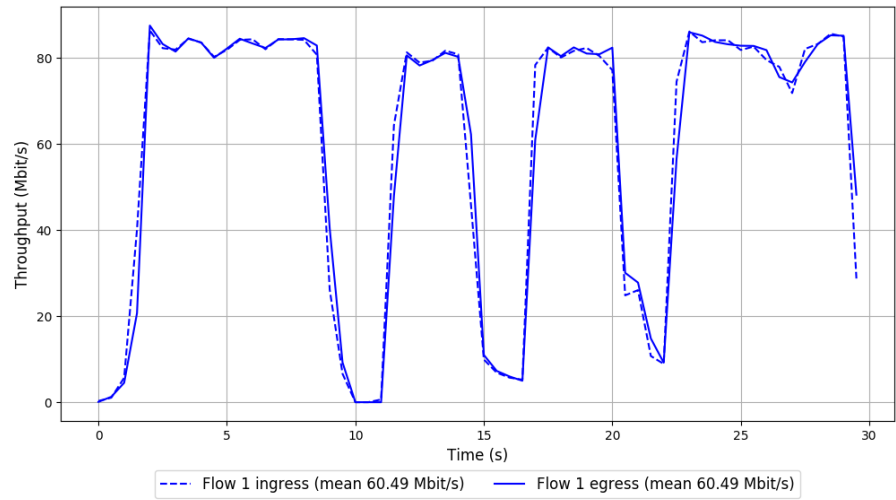
-- Flow 1:

Average throughput: 60.49 Mbit/s

95th percentile per-packet one-way delay: 114.392 ms

Loss rate: 0.00%

Run 7: Report of QUIC Cubic — Data Link

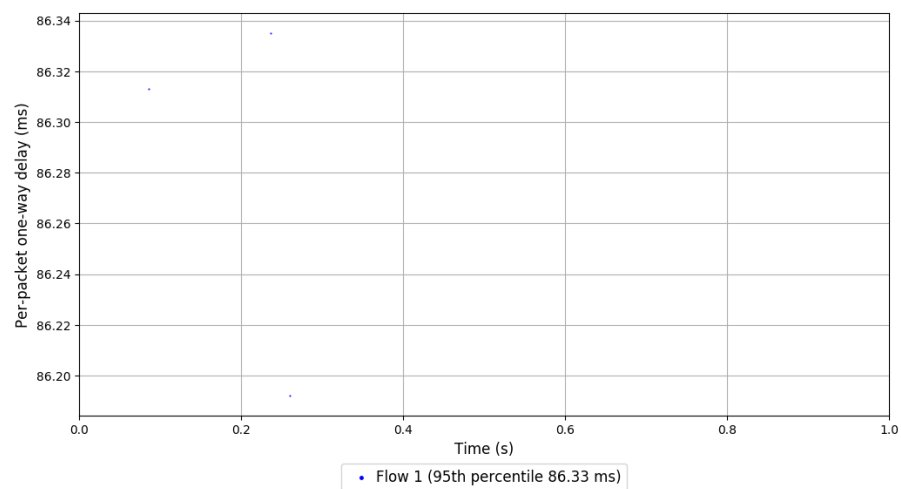
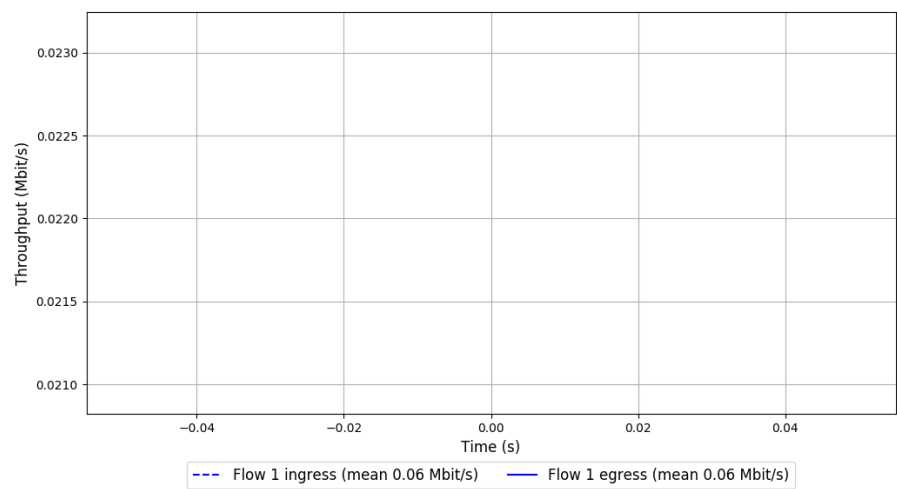


Run 8: Statistics of QUIC Cubic

Start at: 2018-02-16 02:31:13

End at: 2018-02-16 02:31:43

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

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

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

Below is generated by plot.py at 2018-02-16 04:59:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 62.97 Mbit/s

95th percentile per-packet one-way delay: 86.254 ms

Loss rate: 0.00%

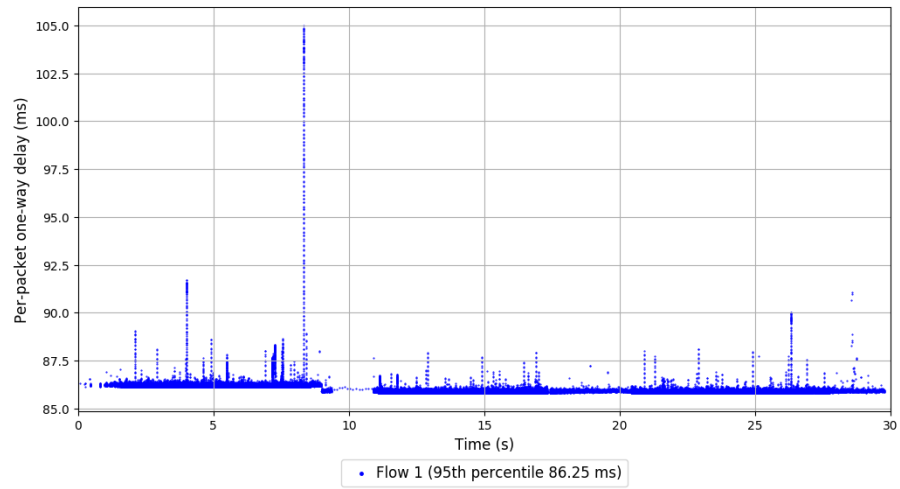
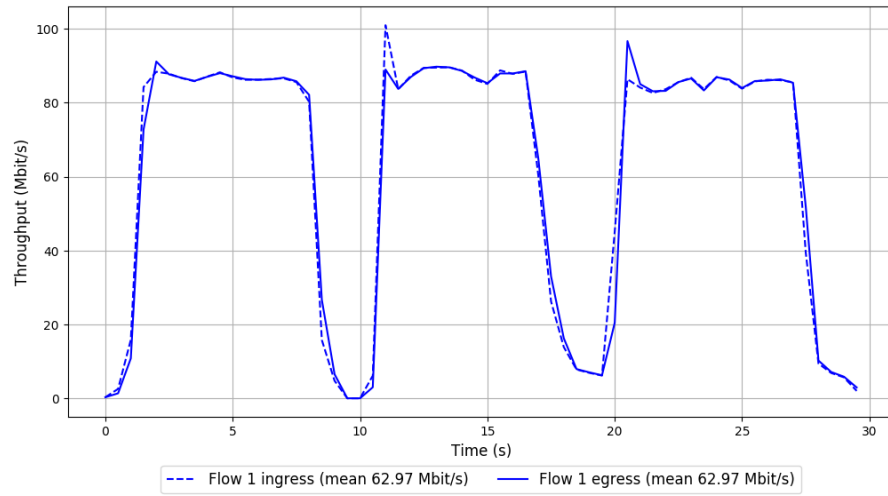
-- Flow 1:

Average throughput: 62.97 Mbit/s

95th percentile per-packet one-way delay: 86.254 ms

Loss rate: 0.00%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-02-16 03:01:26

End at: 2018-02-16 03:01:56

Below is generated by plot.py at 2018-02-16 04:59:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 55.82 Mbit/s

95th percentile per-packet one-way delay: 86.281 ms

Loss rate: 0.00%

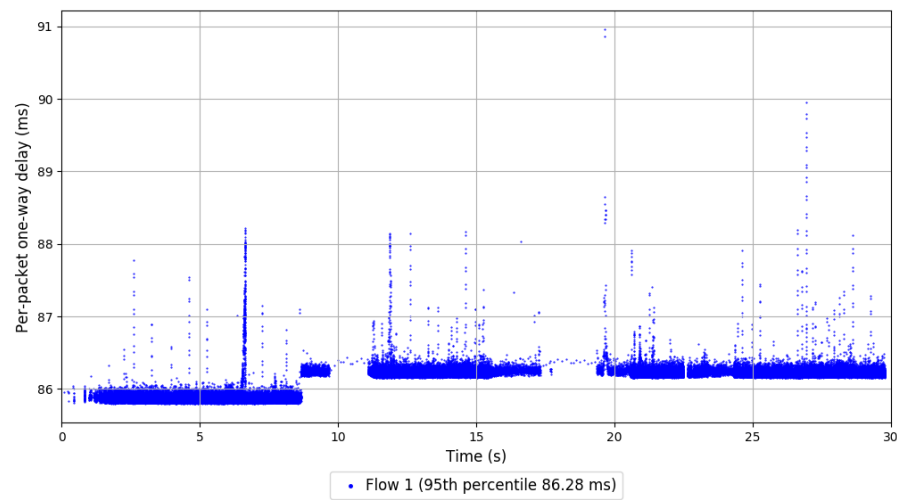
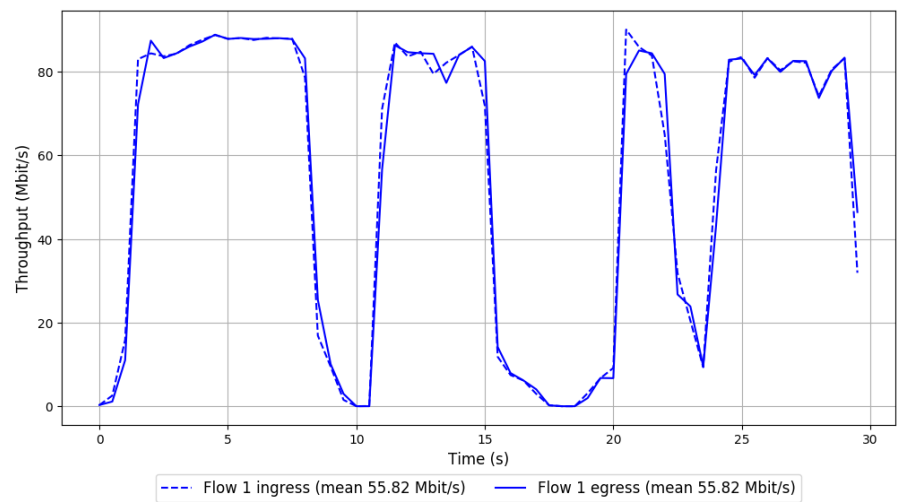
-- Flow 1:

Average throughput: 55.82 Mbit/s

95th percentile per-packet one-way delay: 86.281 ms

Loss rate: 0.00%

Run 10: Report of QUIC Cubic — Data Link

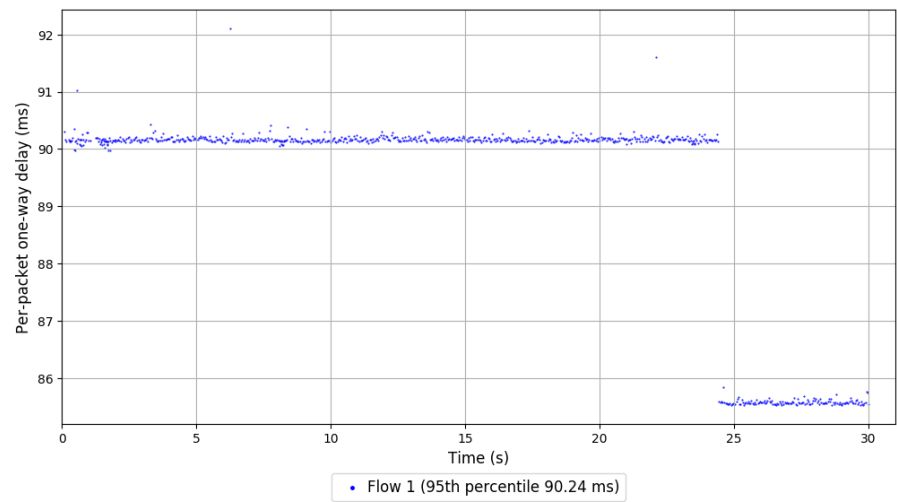
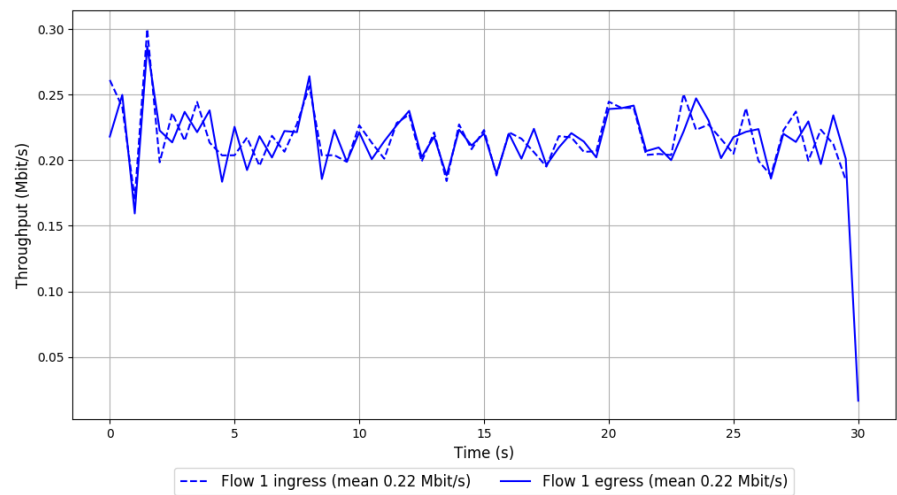


```
Run 1: Statistics of SCReAM

Start at: 2018-02-16 00:49:21
End at: 2018-02-16 00:49:51

# Below is generated by plot.py at 2018-02-16 04:59:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 90.241 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 90.241 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2018-02-16 01:04:28

End at: 2018-02-16 01:04:58

Below is generated by plot.py at 2018-02-16 04:59:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 113.713 ms

Loss rate: 0.00%

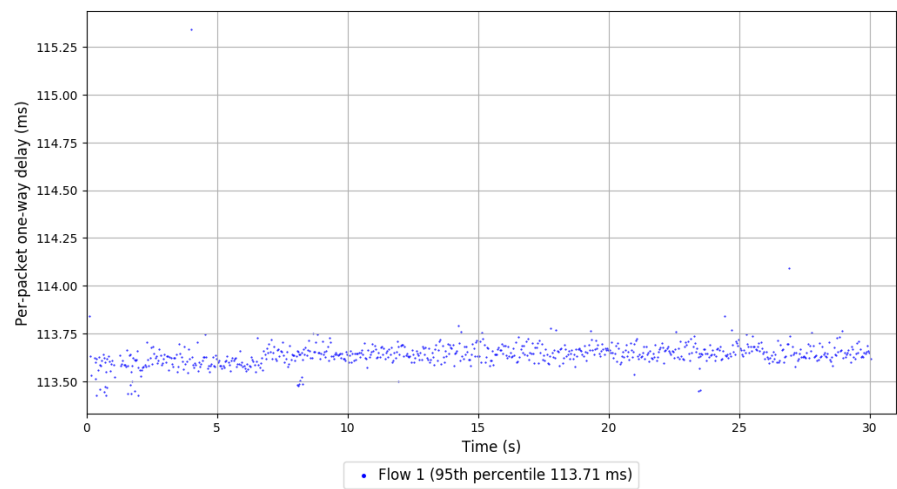
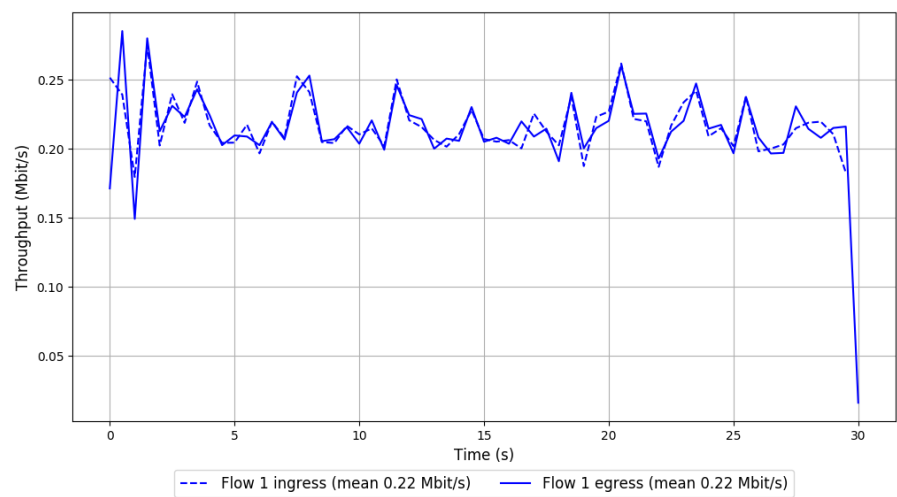
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 113.713 ms

Loss rate: 0.00%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-02-16 01:19:41

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

Below is generated by plot.py at 2018-02-16 04:59:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.021 ms

Loss rate: 0.00%

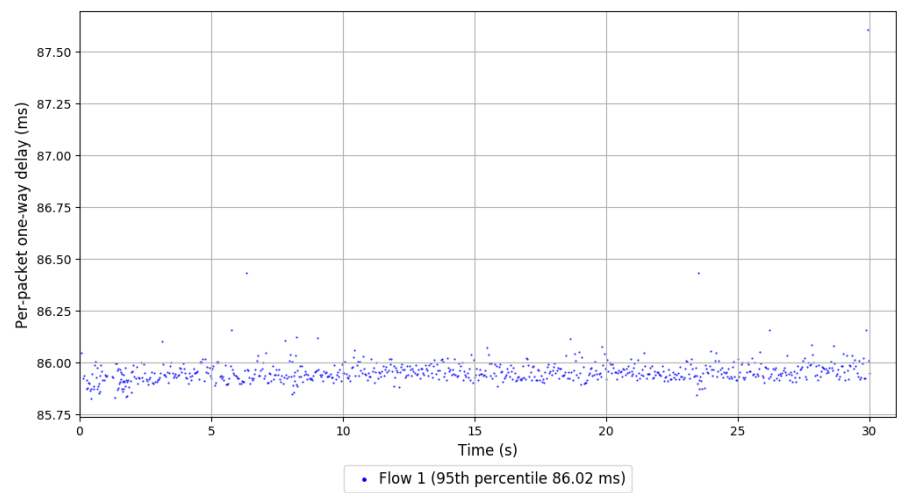
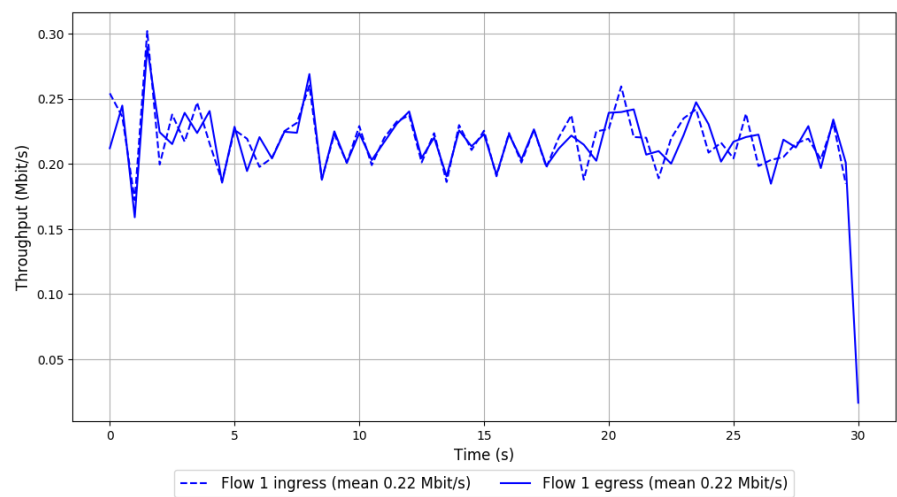
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.021 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link

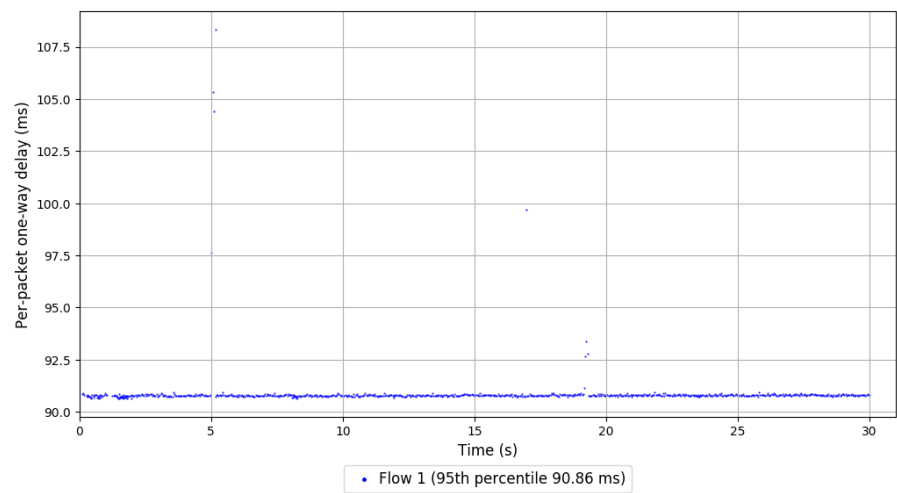
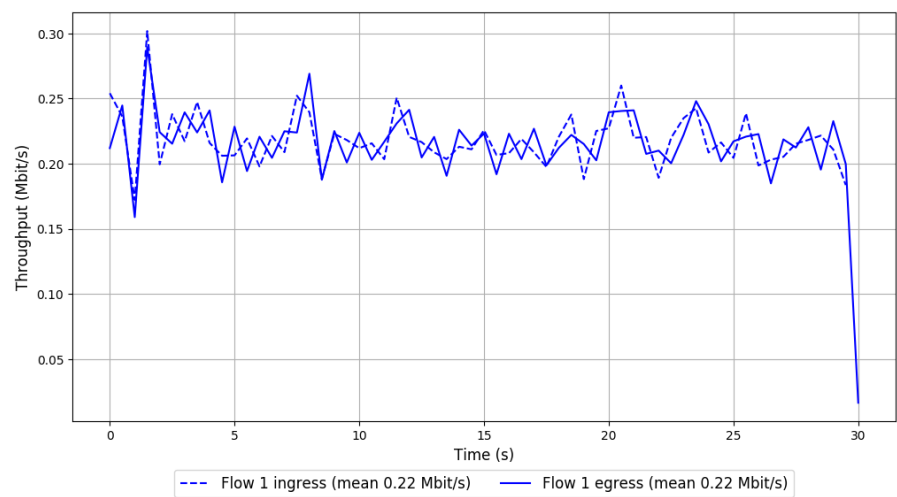


```
Run 4: Statistics of SCReAM

Start at: 2018-02-16 01:35:07
End at: 2018-02-16 01:35:37

# Below is generated by plot.py at 2018-02-16 04:59:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 90.861 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 90.861 ms
Loss rate: 0.00%
```

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-02-16 01:50:11

End at: 2018-02-16 01:50:41

Below is generated by plot.py at 2018-02-16 04:59:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 90.755 ms

Loss rate: 0.00%

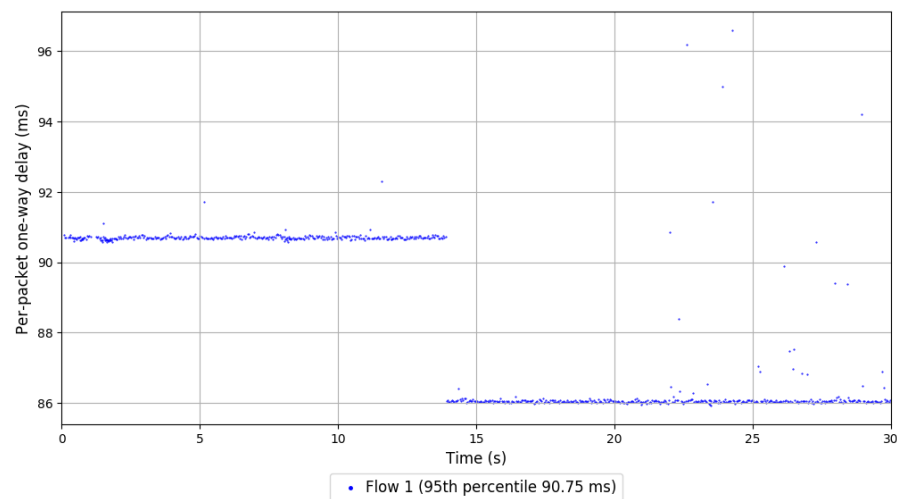
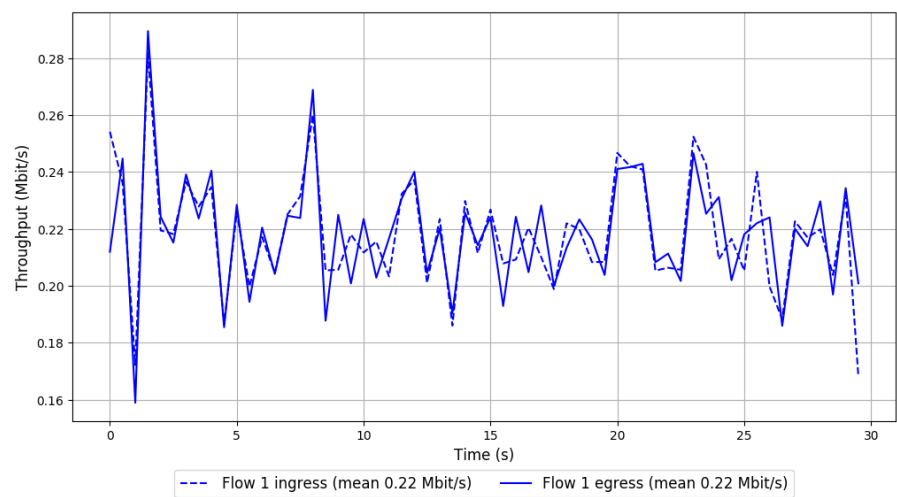
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 90.755 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-02-16 02:04:58

End at: 2018-02-16 02:05:28

Below is generated by plot.py at 2018-02-16 04:59:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 114.334 ms

Loss rate: 0.00%

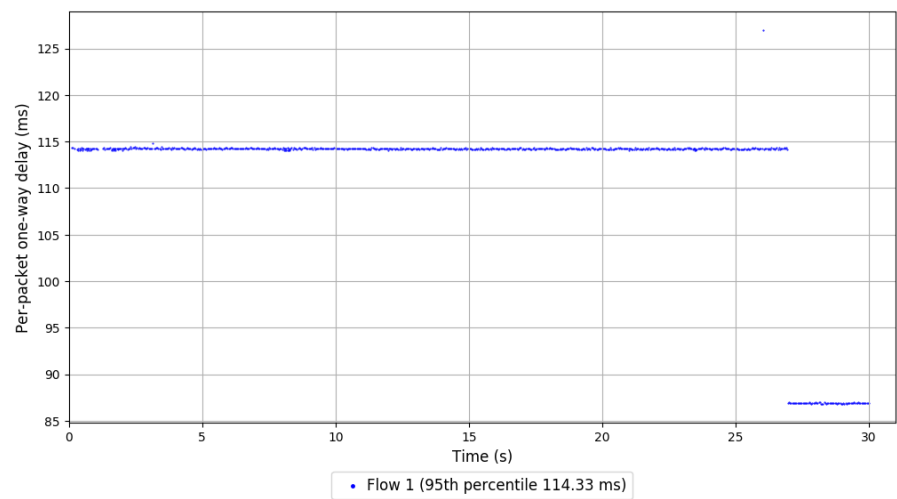
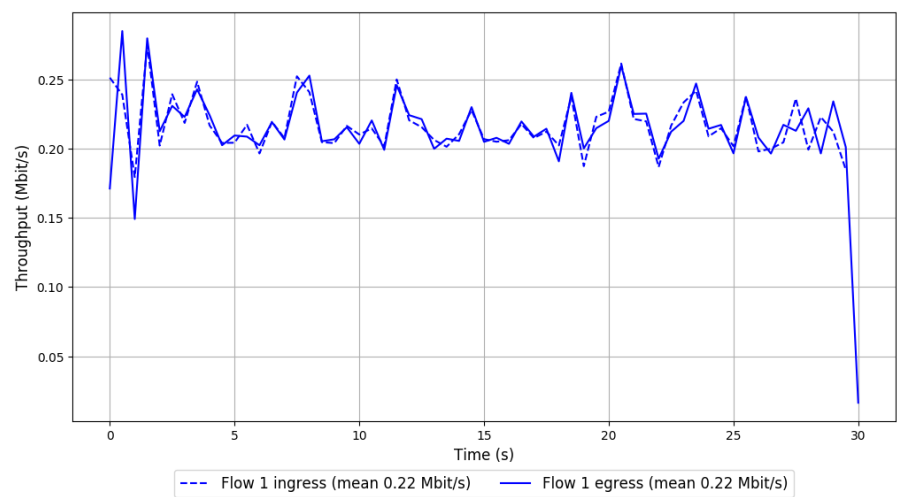
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 114.334 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

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

End at: 2018-02-16 02:20:29

Below is generated by plot.py at 2018-02-16 04:59:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 114.290 ms

Loss rate: 0.00%

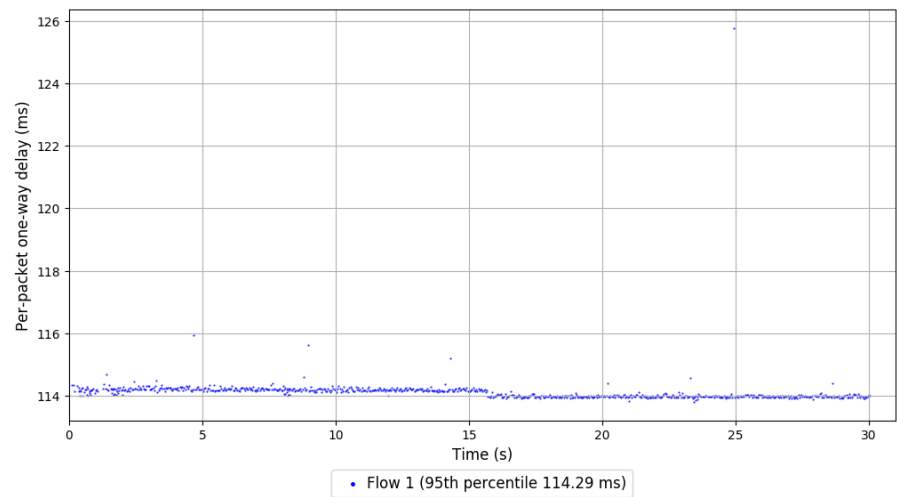
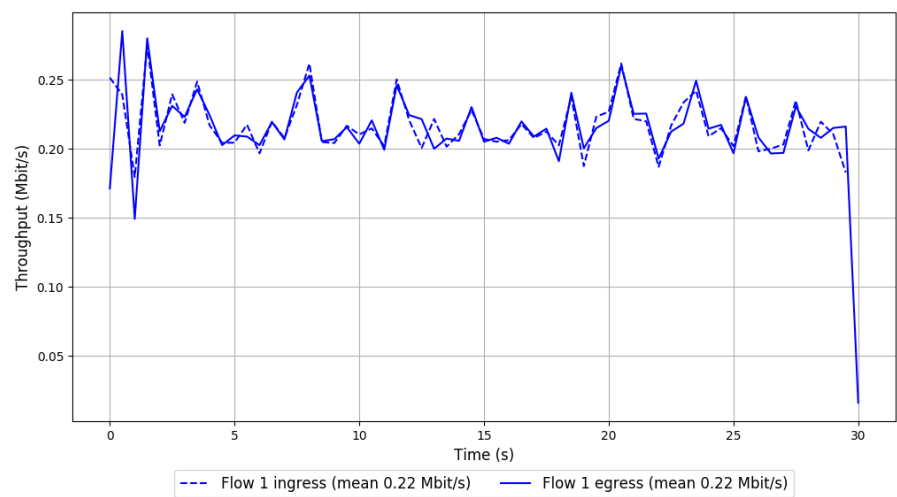
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 114.290 ms

Loss rate: 0.00%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-02-16 02:35:24

End at: 2018-02-16 02:35:54

Below is generated by plot.py at 2018-02-16 04:59:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 90.681 ms

Loss rate: 0.00%

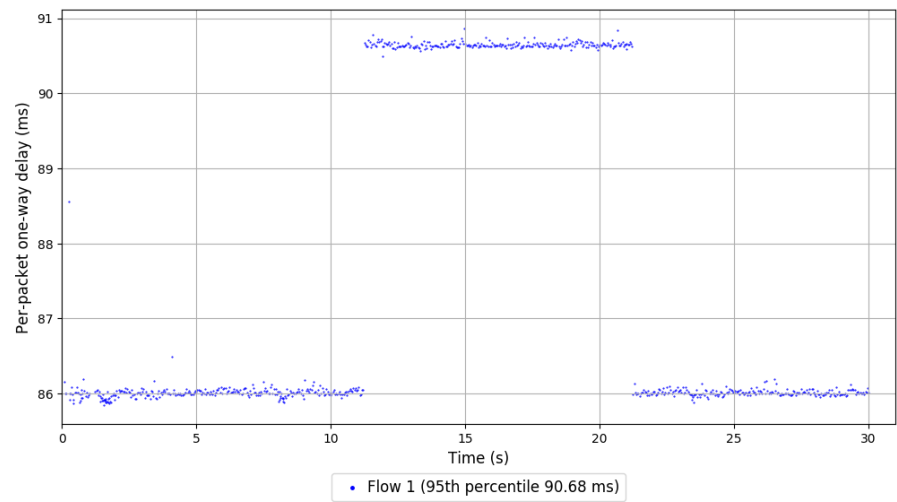
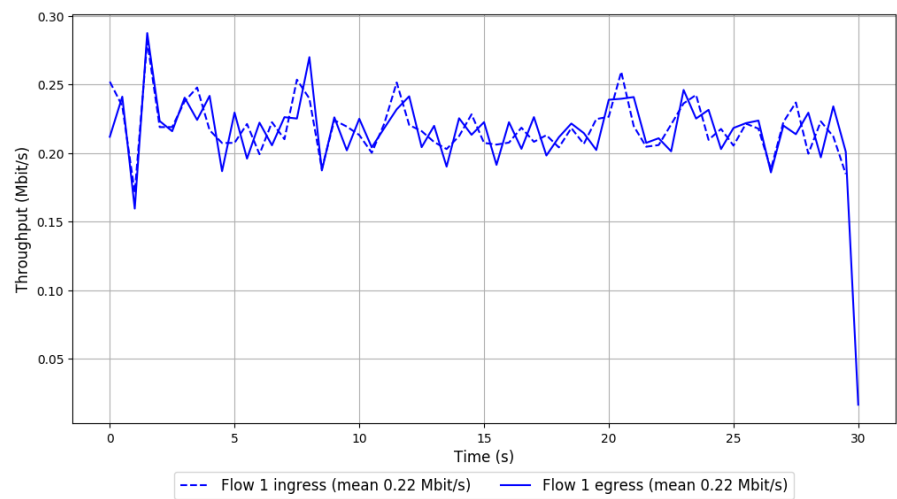
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 90.681 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-02-16 02:50:28

End at: 2018-02-16 02:50:58

Below is generated by plot.py at 2018-02-16 04:59:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 114.136 ms

Loss rate: 0.00%

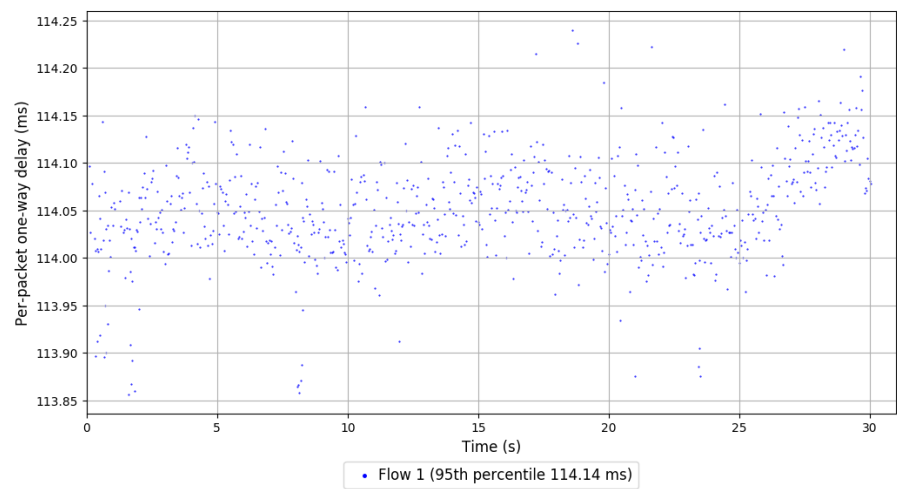
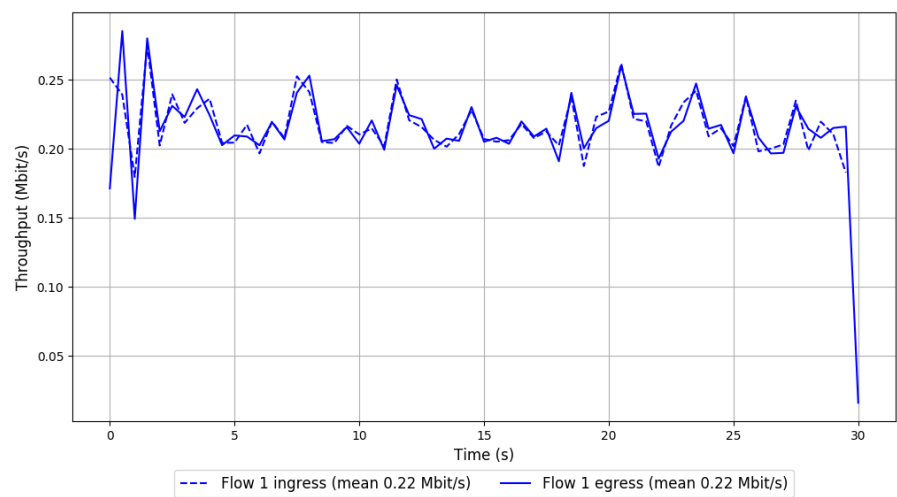
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 114.136 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-02-16 03:06:14

End at: 2018-02-16 03:06:44

Below is generated by plot.py at 2018-02-16 04:59:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 90.720 ms

Loss rate: 0.00%

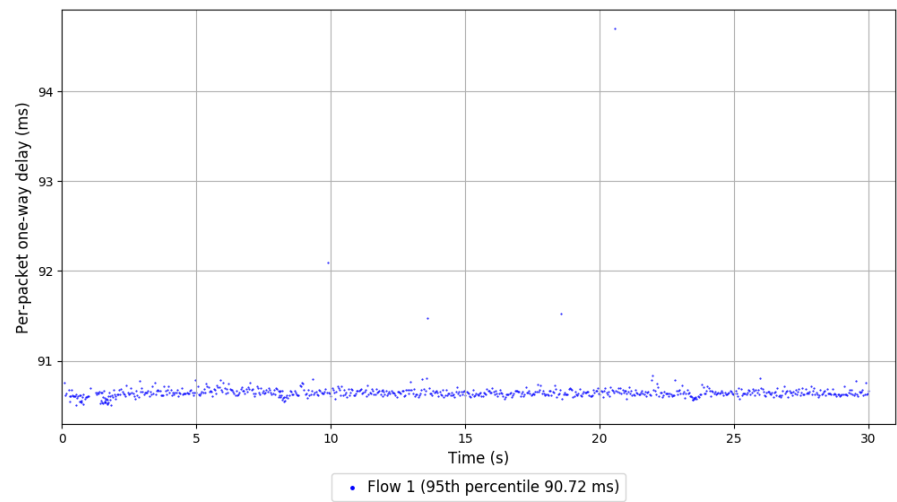
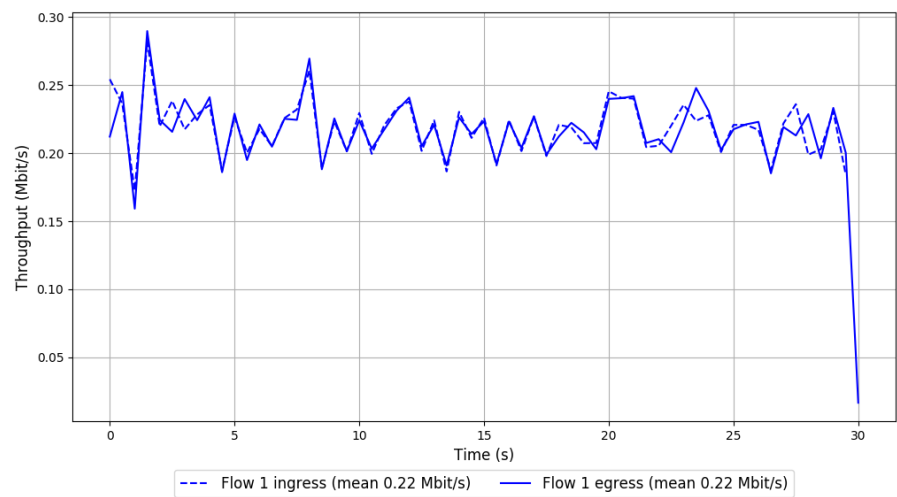
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 90.720 ms

Loss rate: 0.00%

Run 10: Report of SReAM — Data Link

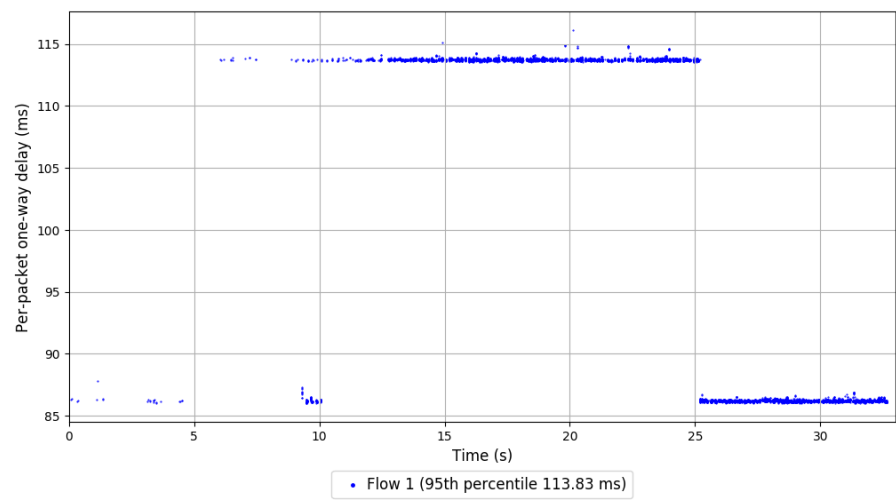
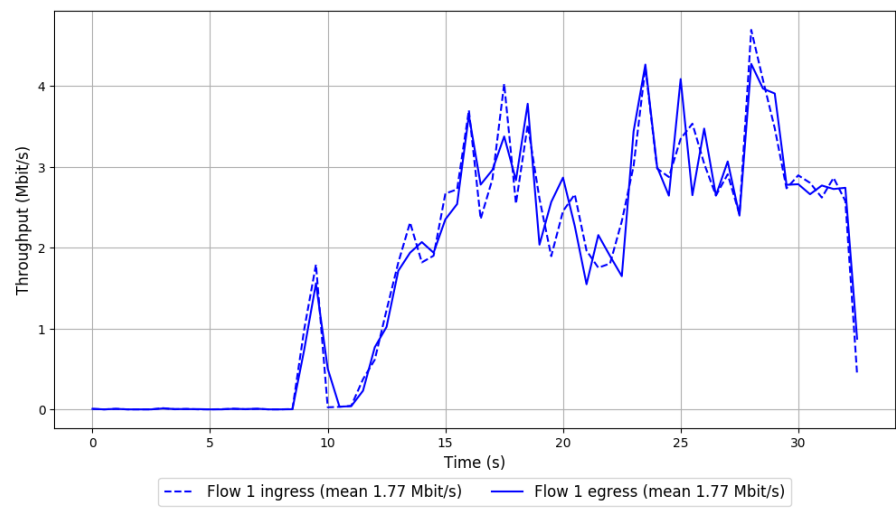


```
Run 1: Statistics of WebRTC media

Start at: 2018-02-16 00:39:53
End at: 2018-02-16 00:40:23

# Below is generated by plot.py at 2018-02-16 04:59:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.77 Mbit/s
95th percentile per-packet one-way delay: 113.831 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.77 Mbit/s
95th percentile per-packet one-way delay: 113.831 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link

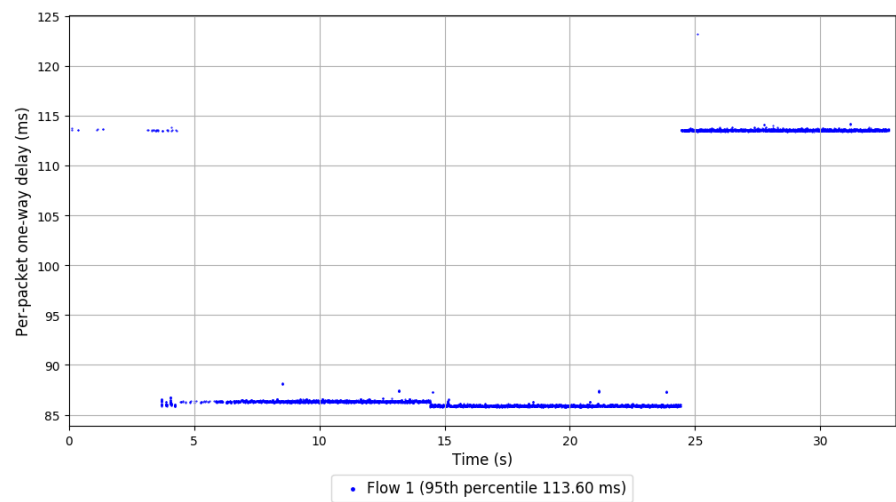
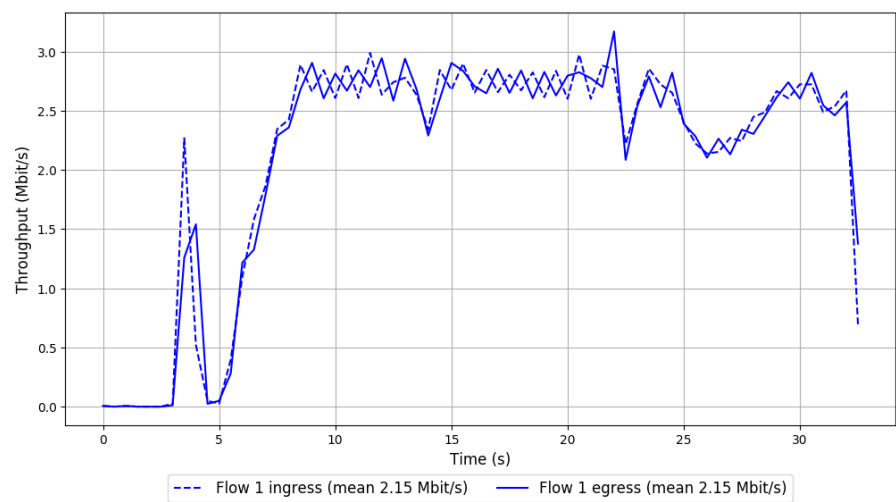


```
Run 2: Statistics of WebRTC media

Start at: 2018-02-16 00:54:53
End at: 2018-02-16 00:55:23

# Below is generated by plot.py at 2018-02-16 04:59:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.15 Mbit/s
95th percentile per-packet one-way delay: 113.597 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.15 Mbit/s
95th percentile per-packet one-way delay: 113.597 ms
Loss rate: 0.00%
```

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-02-16 01:10:09

End at: 2018-02-16 01:10:39

Below is generated by plot.py at 2018-02-16 04:59:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.23 Mbit/s

95th percentile per-packet one-way delay: 92.118 ms

Loss rate: 0.00%

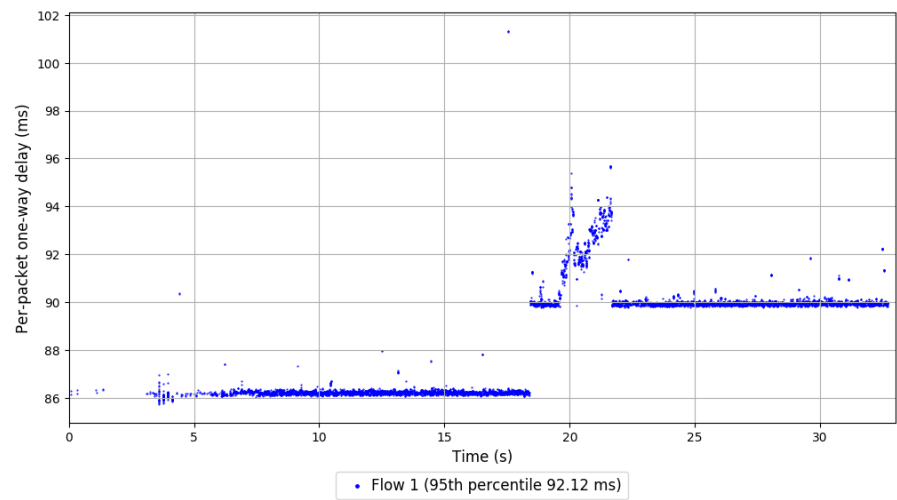
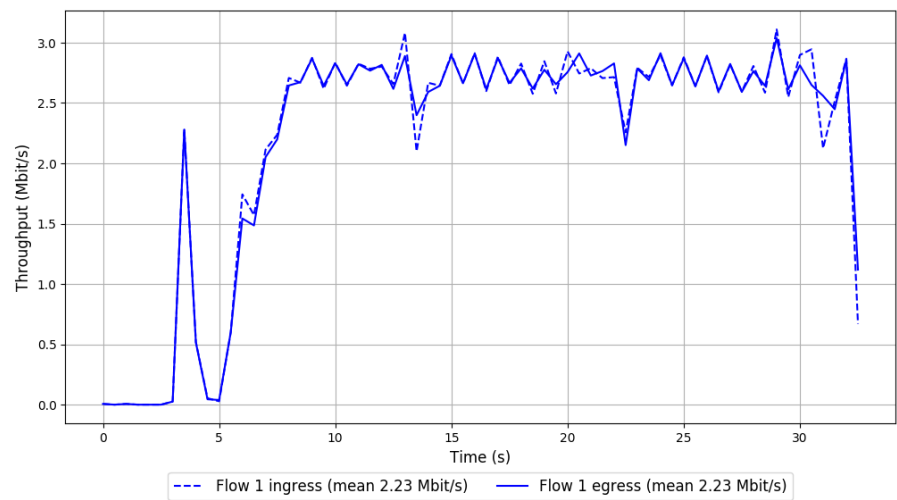
-- Flow 1:

Average throughput: 2.23 Mbit/s

95th percentile per-packet one-way delay: 92.118 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-02-16 01:25:26

End at: 2018-02-16 01:25:56

Below is generated by plot.py at 2018-02-16 04:59:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.22 Mbit/s

95th percentile per-packet one-way delay: 90.708 ms

Loss rate: 0.00%

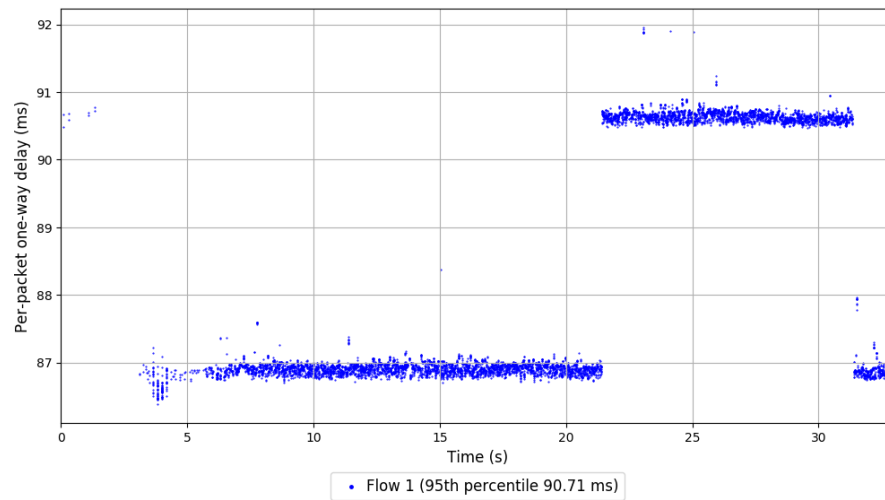
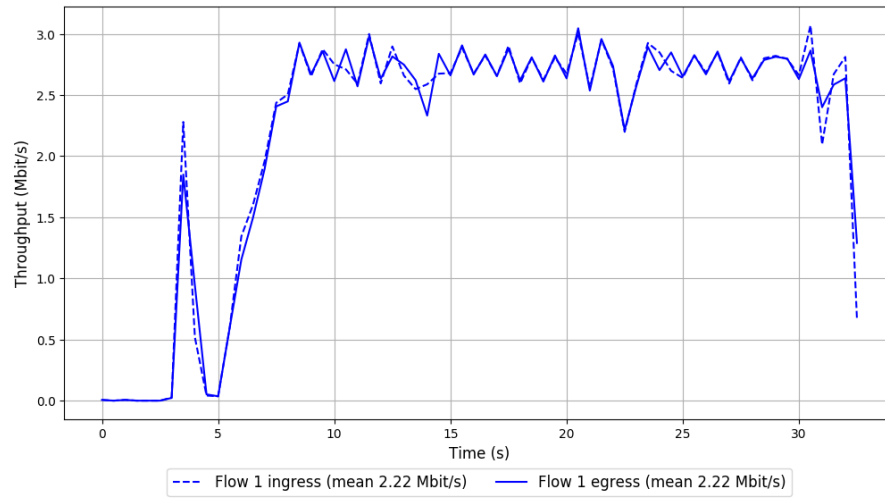
-- Flow 1:

Average throughput: 2.22 Mbit/s

95th percentile per-packet one-way delay: 90.708 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-02-16 01:40:35

End at: 2018-02-16 01:41:05

Below is generated by plot.py at 2018-02-16 04:59:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.22 Mbit/s

95th percentile per-packet one-way delay: 86.904 ms

Loss rate: 0.00%

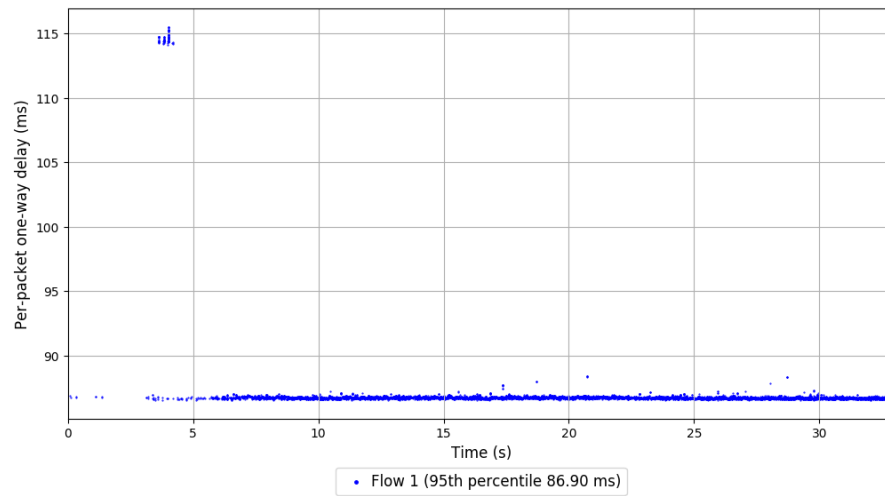
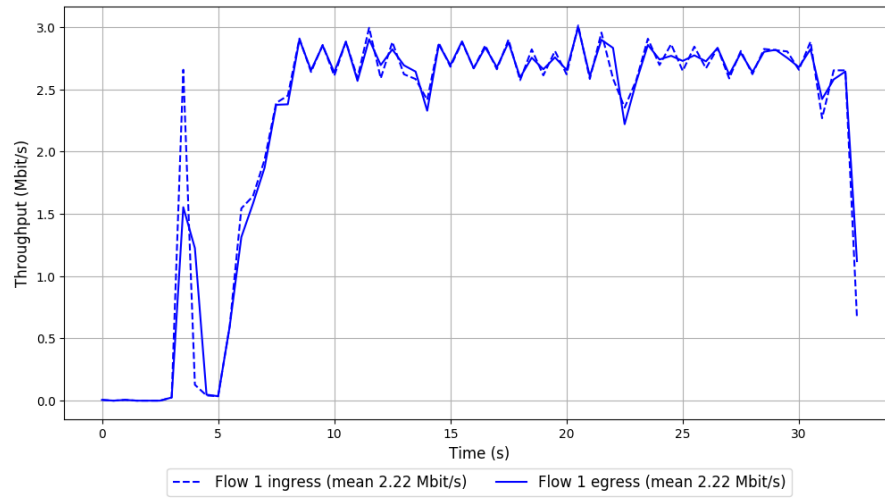
-- Flow 1:

Average throughput: 2.22 Mbit/s

95th percentile per-packet one-way delay: 86.904 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-02-16 01:55:54

End at: 2018-02-16 01:56:24

Below is generated by plot.py at 2018-02-16 04:59:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.20 Mbit/s

95th percentile per-packet one-way delay: 114.191 ms

Loss rate: 0.00%

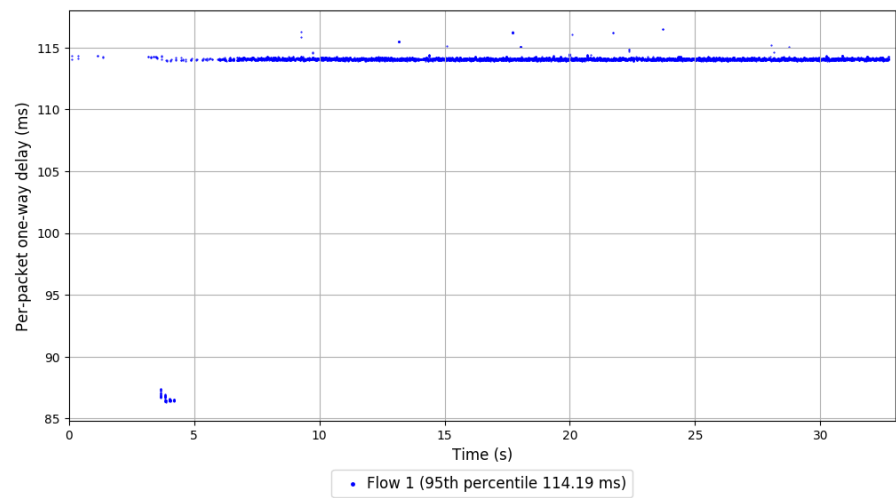
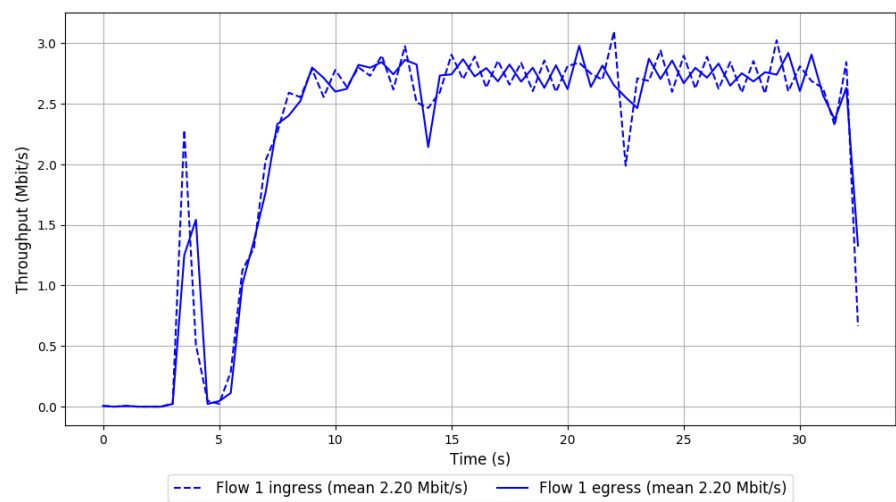
-- Flow 1:

Average throughput: 2.20 Mbit/s

95th percentile per-packet one-way delay: 114.191 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-02-16 02:10:21

End at: 2018-02-16 02:10:51

Below is generated by plot.py at 2018-02-16 04:59:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.20 Mbit/s

95th percentile per-packet one-way delay: 114.301 ms

Loss rate: 0.00%

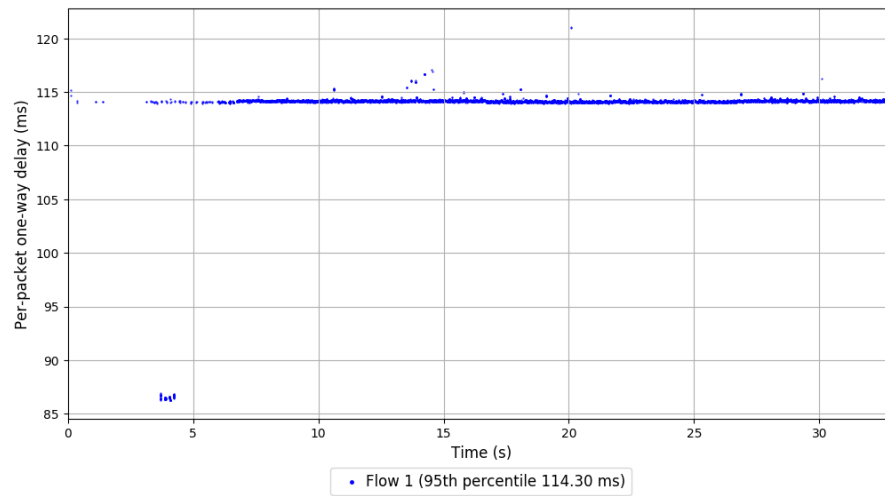
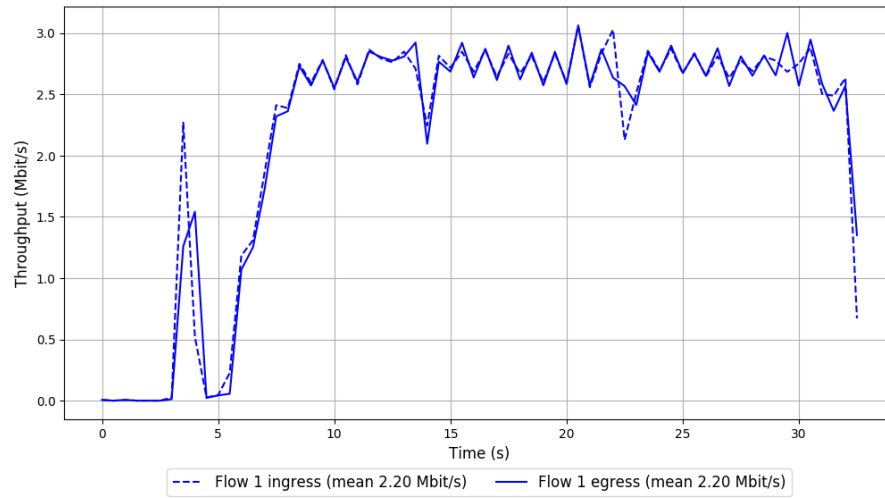
-- Flow 1:

Average throughput: 2.20 Mbit/s

95th percentile per-packet one-way delay: 114.301 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-02-16 02:25:45

End at: 2018-02-16 02:26:15

Below is generated by plot.py at 2018-02-16 04:59:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.39 Mbit/s

95th percentile per-packet one-way delay: 114.118 ms

Loss rate: 0.00%

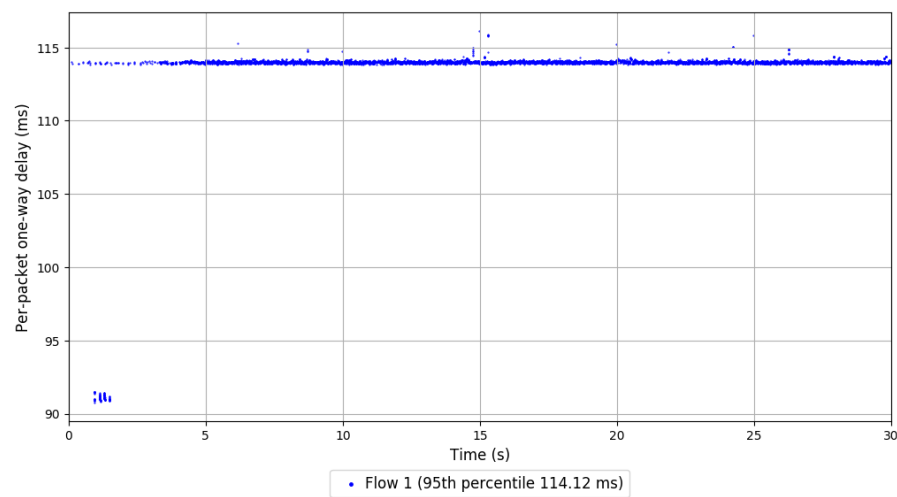
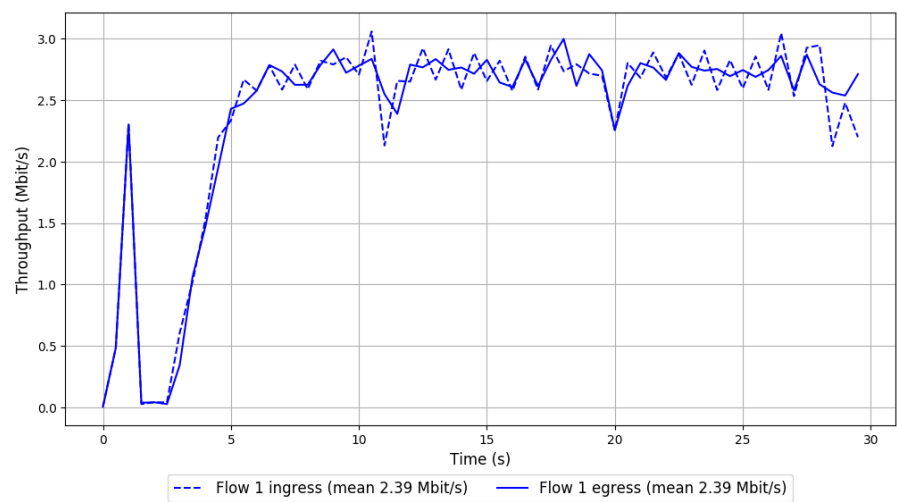
-- Flow 1:

Average throughput: 2.39 Mbit/s

95th percentile per-packet one-way delay: 114.118 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-02-16 02:41:00

End at: 2018-02-16 02:41:30

Below is generated by plot.py at 2018-02-16 04:59:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.22 Mbit/s

95th percentile per-packet one-way delay: 86.319 ms

Loss rate: 0.00%

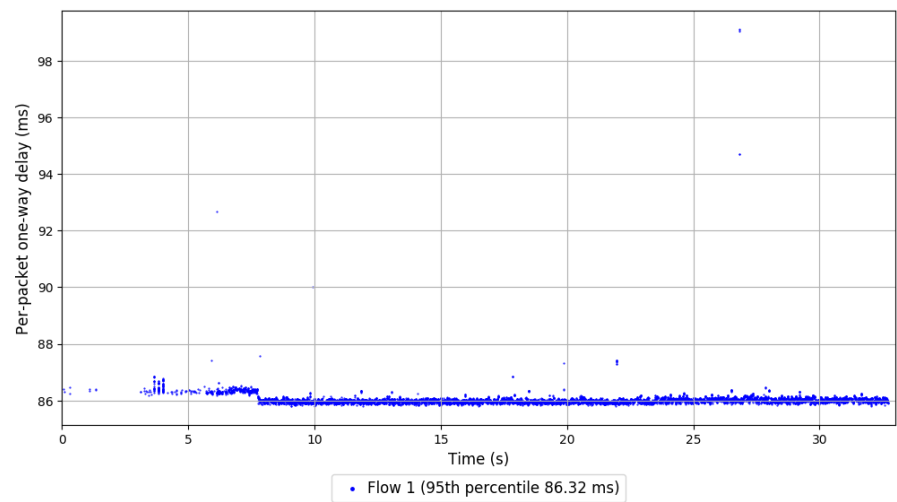
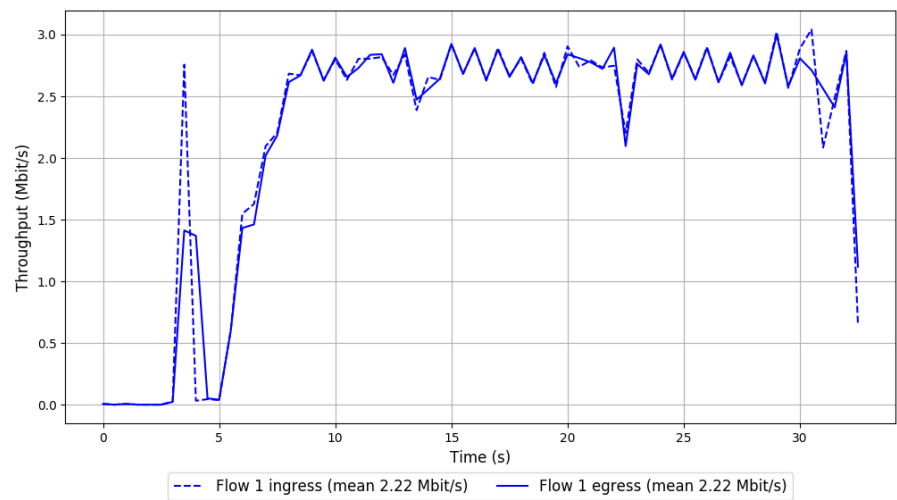
-- Flow 1:

Average throughput: 2.22 Mbit/s

95th percentile per-packet one-way delay: 86.319 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-02-16 02:56:00

End at: 2018-02-16 02:56:30

Below is generated by plot.py at 2018-02-16 04:59:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.22 Mbit/s

95th percentile per-packet one-way delay: 90.718 ms

Loss rate: 0.00%

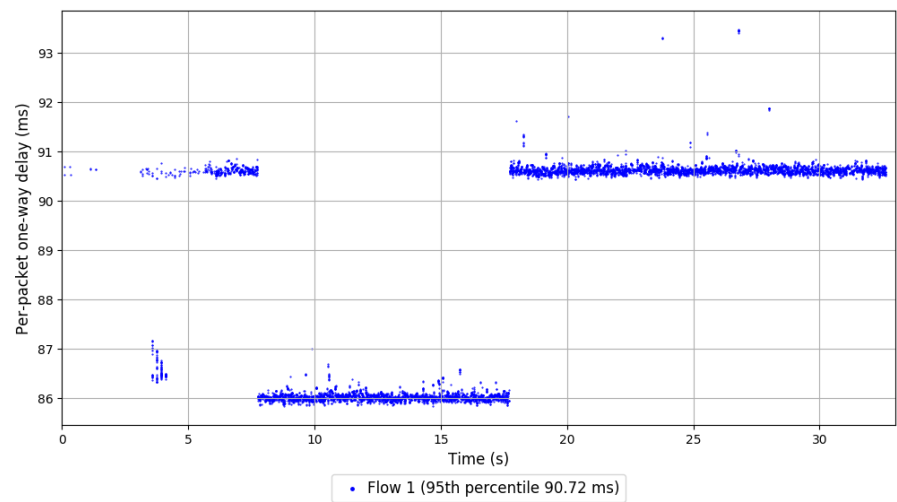
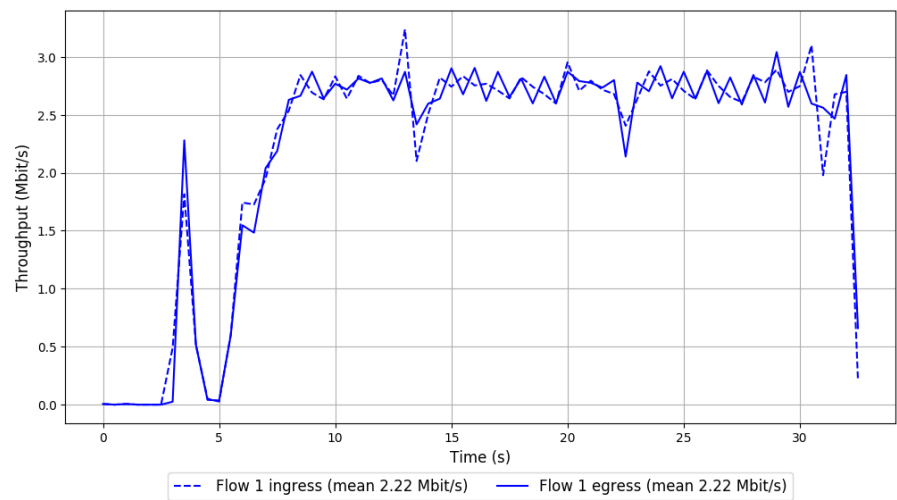
-- Flow 1:

Average throughput: 2.22 Mbit/s

95th percentile per-packet one-way delay: 90.718 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2018-02-16 00:38:08

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

Below is generated by plot.py at 2018-02-16 04:59:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.78 Mbit/s

95th percentile per-packet one-way delay: 87.577 ms

Loss rate: 0.00%

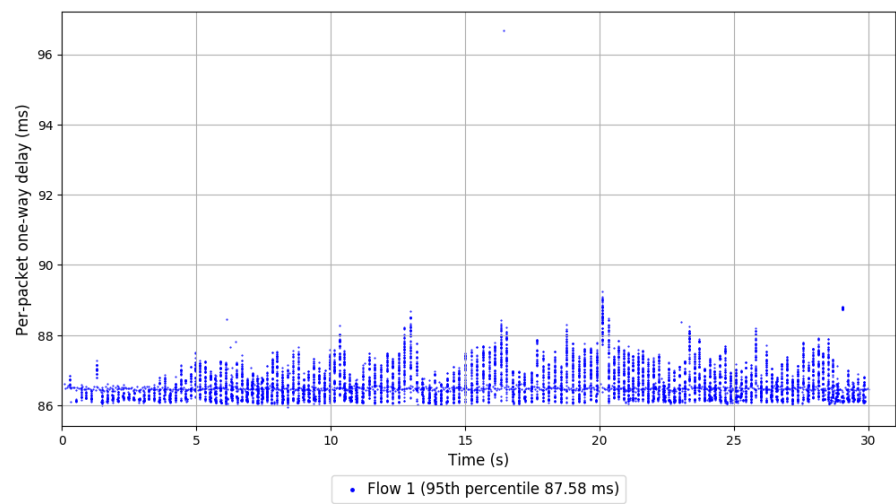
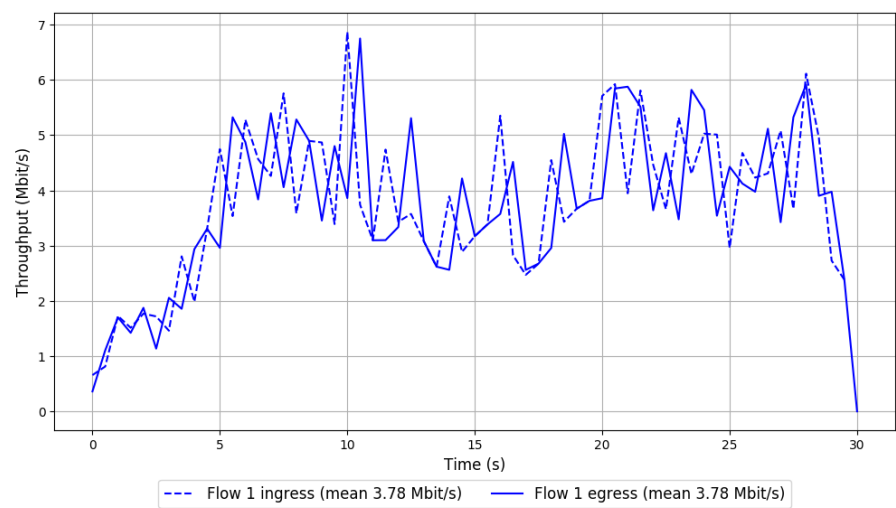
-- Flow 1:

Average throughput: 3.78 Mbit/s

95th percentile per-packet one-way delay: 87.577 ms

Loss rate: 0.00%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-02-16 00:53:03

End at: 2018-02-16 00:53:33

Below is generated by plot.py at 2018-02-16 04:59:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.47 Mbit/s

95th percentile per-packet one-way delay: 115.273 ms

Loss rate: 0.00%

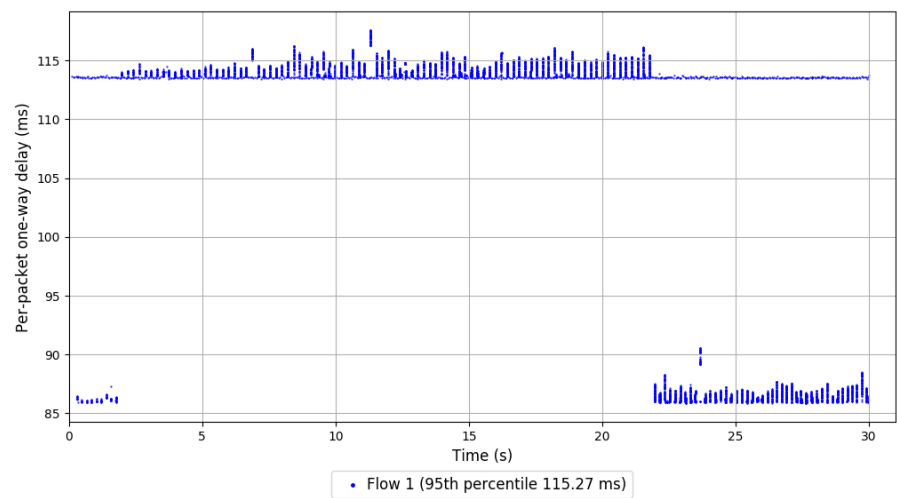
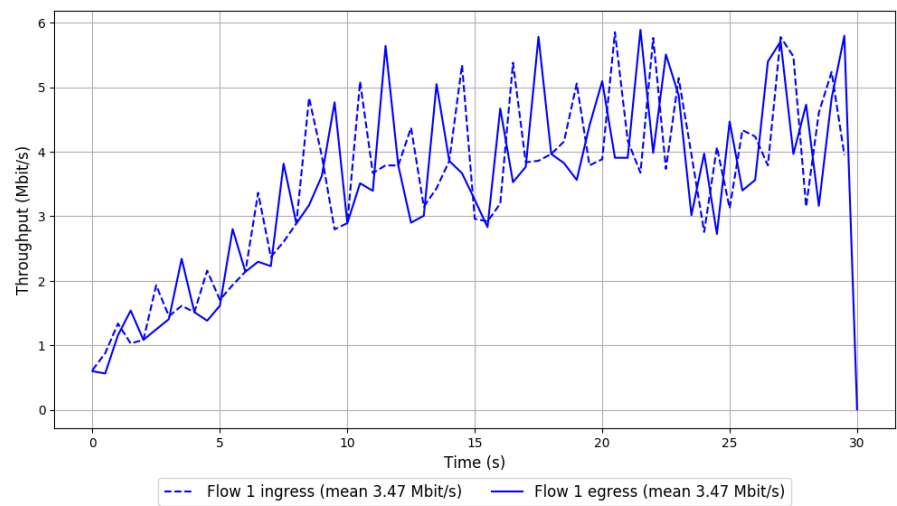
-- Flow 1:

Average throughput: 3.47 Mbit/s

95th percentile per-packet one-way delay: 115.273 ms

Loss rate: 0.00%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-02-16 01:08:21

End at: 2018-02-16 01:08:51

Below is generated by plot.py at 2018-02-16 04:59:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.23 Mbit/s

95th percentile per-packet one-way delay: 91.174 ms

Loss rate: 0.00%

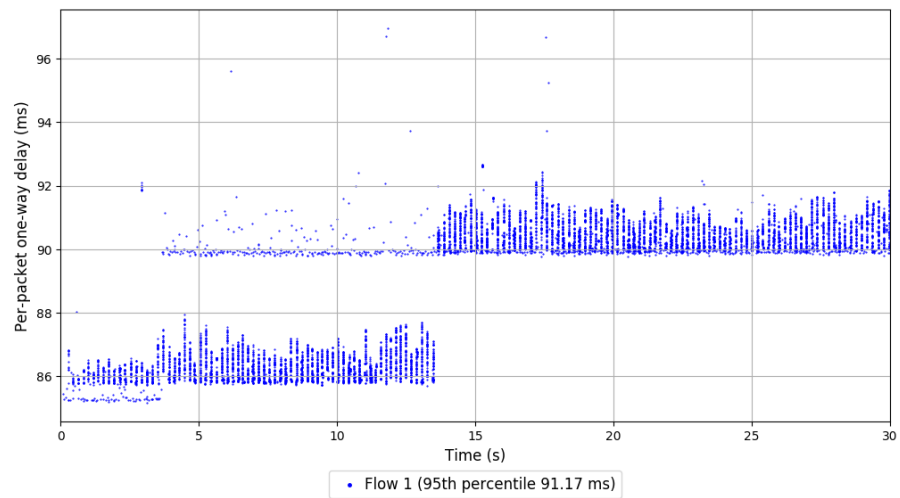
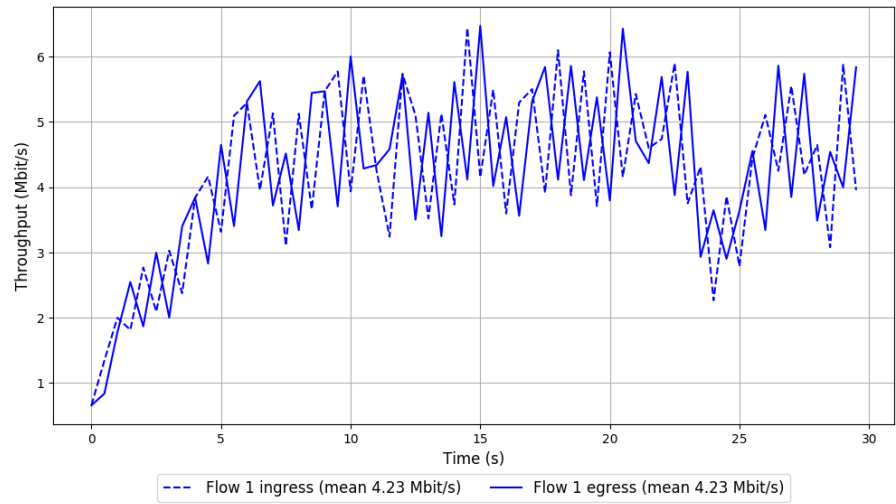
-- Flow 1:

Average throughput: 4.23 Mbit/s

95th percentile per-packet one-way delay: 91.174 ms

Loss rate: 0.00%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-02-16 01:23:39

End at: 2018-02-16 01:24:09

Below is generated by plot.py at 2018-02-16 04:59:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.17 Mbit/s

95th percentile per-packet one-way delay: 87.924 ms

Loss rate: 0.00%

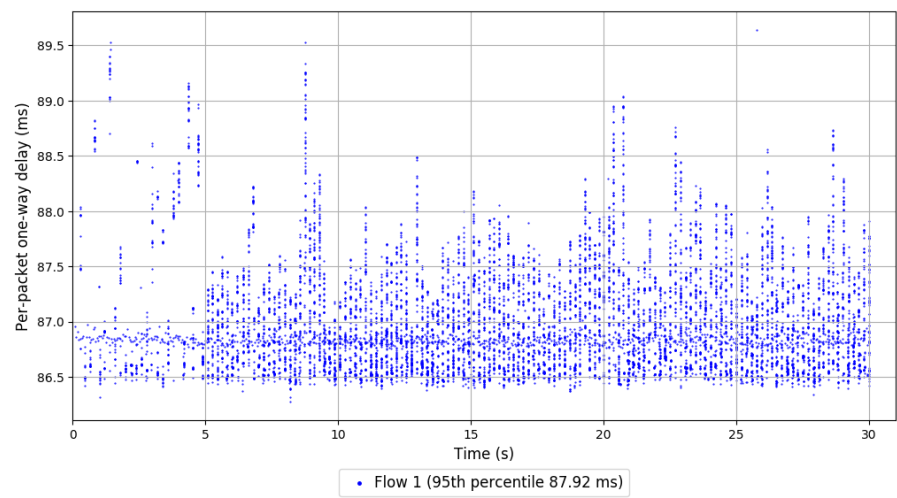
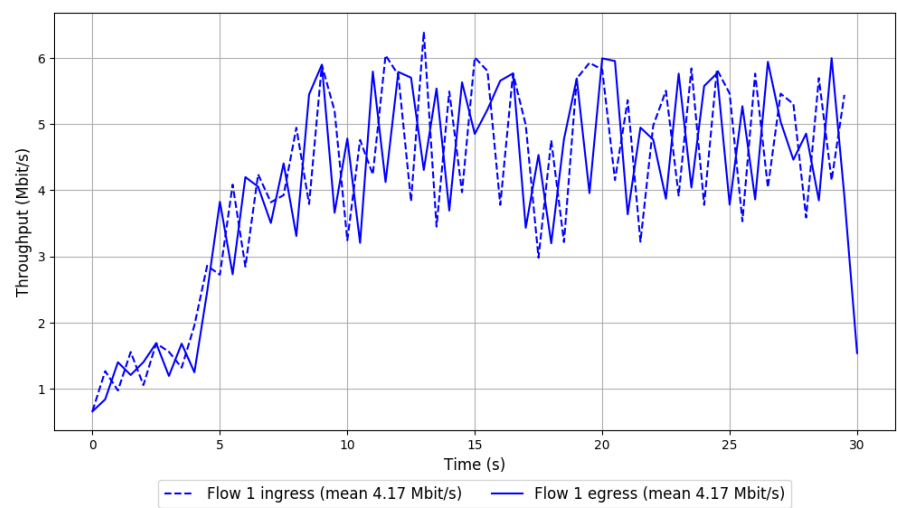
-- Flow 1:

Average throughput: 4.17 Mbit/s

95th percentile per-packet one-way delay: 87.924 ms

Loss rate: 0.00%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-02-16 01:38:49

End at: 2018-02-16 01:39:20

Below is generated by plot.py at 2018-02-16 04:59:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.27 Mbit/s

95th percentile per-packet one-way delay: 114.473 ms

Loss rate: 0.00%

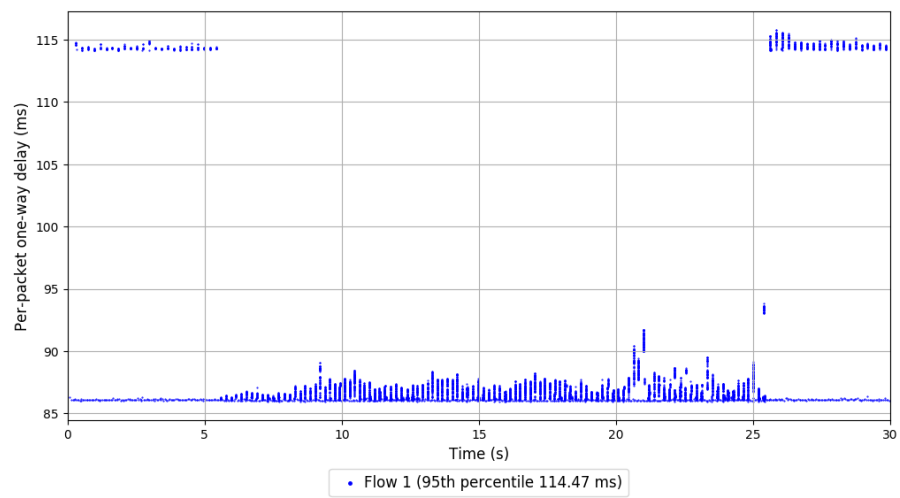
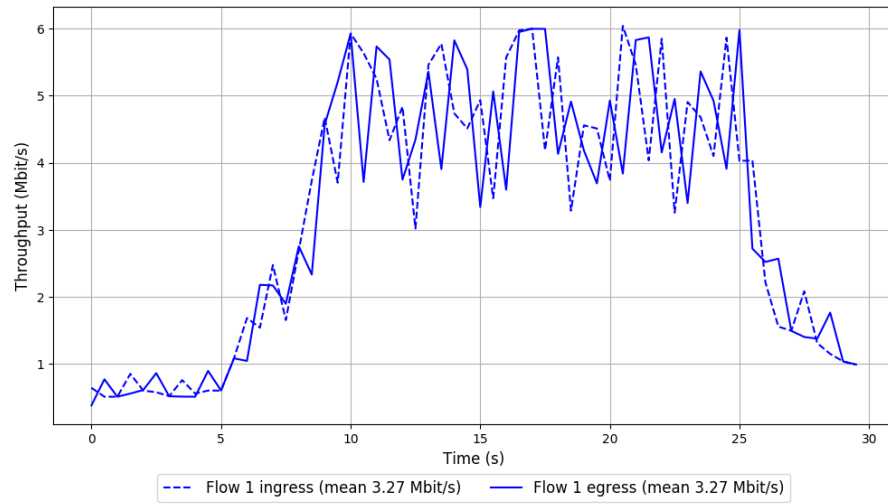
-- Flow 1:

Average throughput: 3.27 Mbit/s

95th percentile per-packet one-way delay: 114.473 ms

Loss rate: 0.00%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-02-16 01:54:06

End at: 2018-02-16 01:54:36

Below is generated by plot.py at 2018-02-16 04:59:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.18 Mbit/s

95th percentile per-packet one-way delay: 114.895 ms

Loss rate: 0.00%

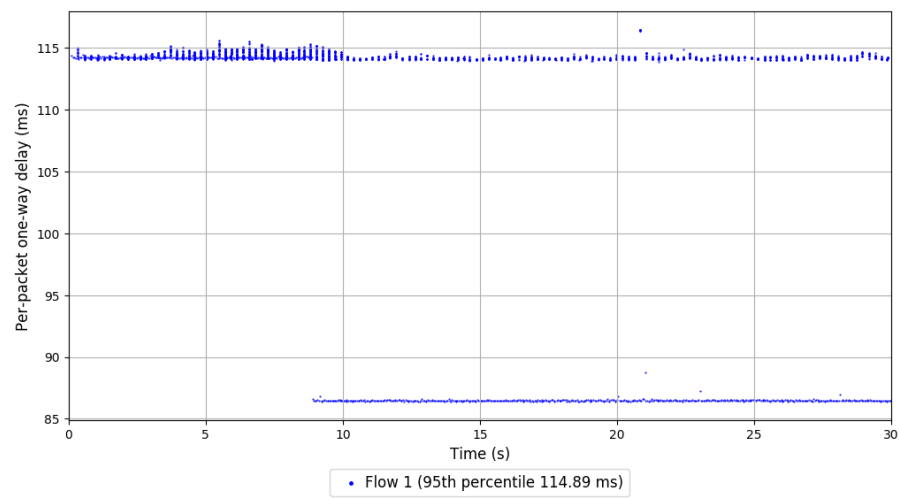
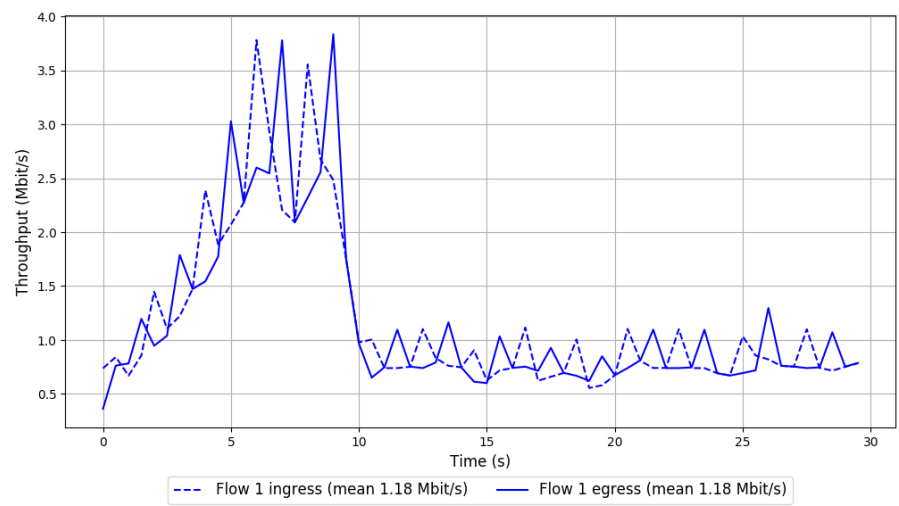
-- Flow 1:

Average throughput: 1.18 Mbit/s

95th percentile per-packet one-way delay: 114.895 ms

Loss rate: 0.00%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-02-16 02:08:33

End at: 2018-02-16 02:09:03

Below is generated by plot.py at 2018-02-16 04:59:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.98 Mbit/s

95th percentile per-packet one-way delay: 115.268 ms

Loss rate: 0.00%

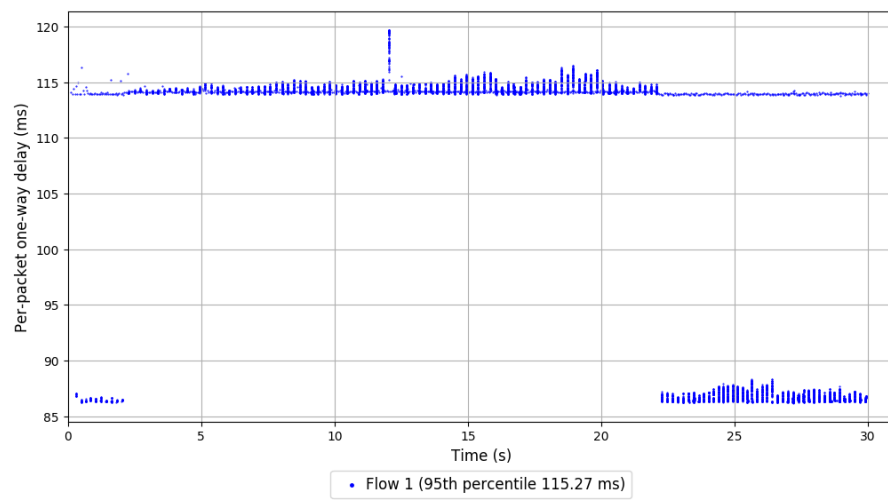
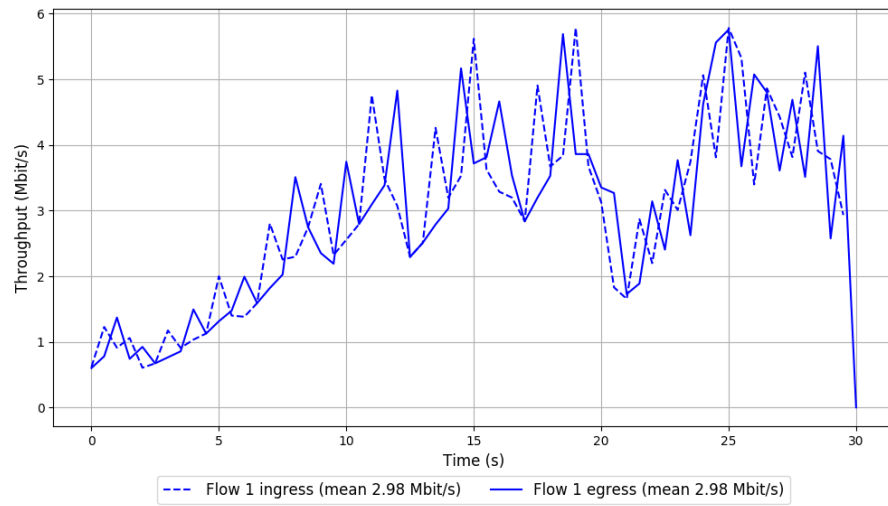
-- Flow 1:

Average throughput: 2.98 Mbit/s

95th percentile per-packet one-way delay: 115.268 ms

Loss rate: 0.00%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-02-16 02:23:55

End at: 2018-02-16 02:24:25

Below is generated by plot.py at 2018-02-16 04:59:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.84 Mbit/s

95th percentile per-packet one-way delay: 115.549 ms

Loss rate: 0.00%

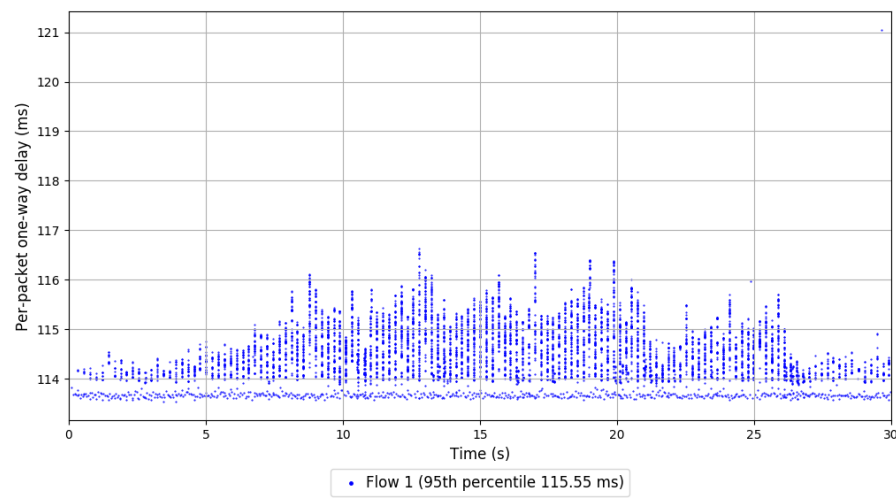
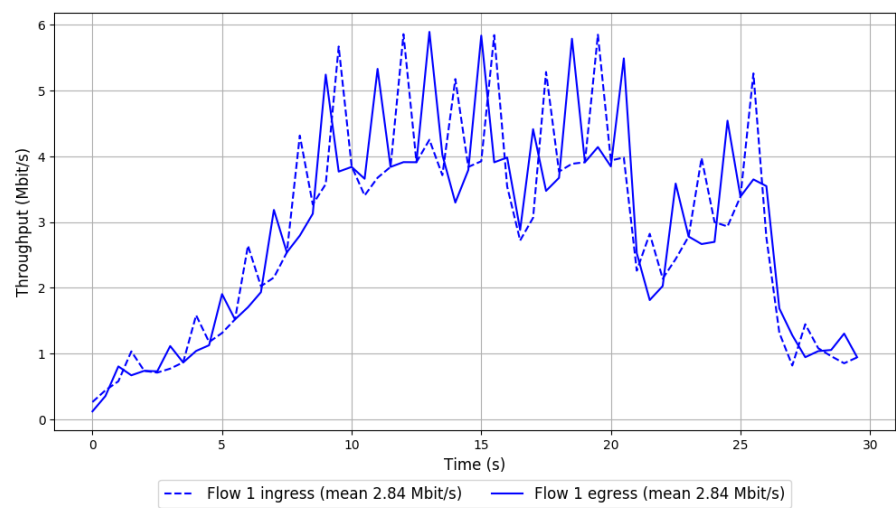
-- Flow 1:

Average throughput: 2.84 Mbit/s

95th percentile per-packet one-way delay: 115.549 ms

Loss rate: 0.00%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-02-16 02:39:11

End at: 2018-02-16 02:39:41

Below is generated by plot.py at 2018-02-16 04:59:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.77 Mbit/s

95th percentile per-packet one-way delay: 91.912 ms

Loss rate: 0.00%

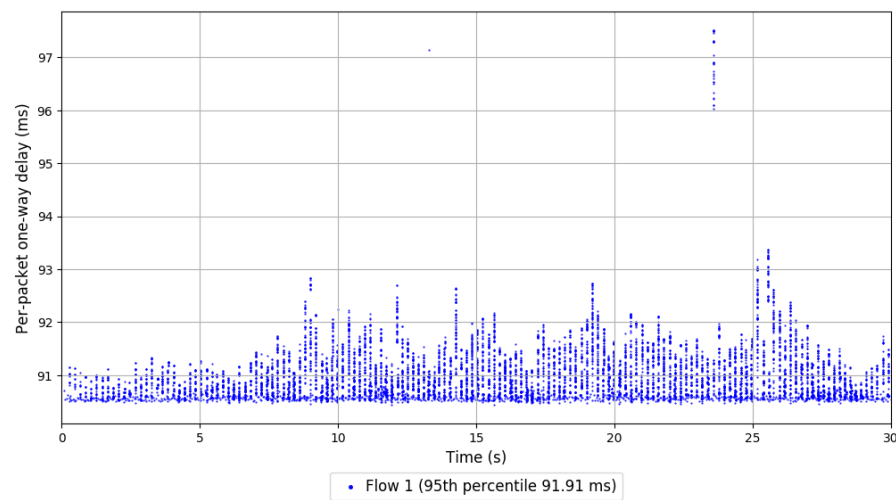
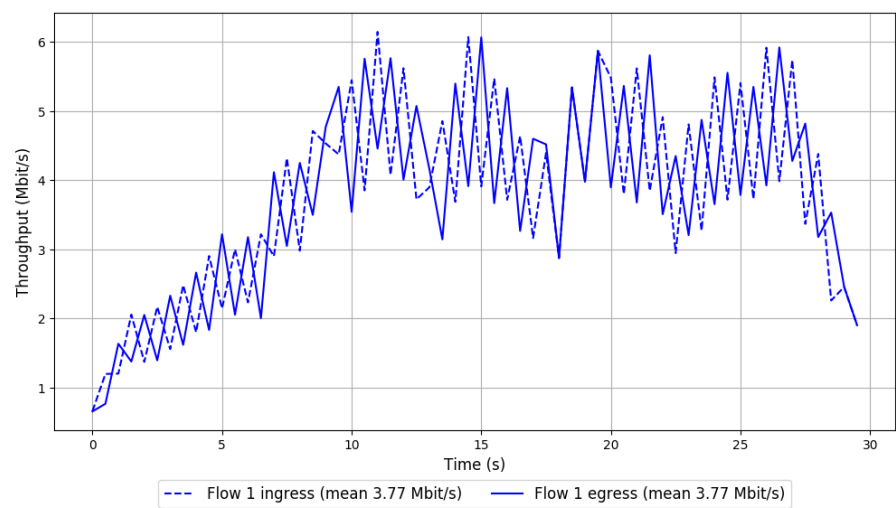
-- Flow 1:

Average throughput: 3.77 Mbit/s

95th percentile per-packet one-way delay: 91.912 ms

Loss rate: 0.00%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

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

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

Below is generated by plot.py at 2018-02-16 04:59:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.50 Mbit/s

95th percentile per-packet one-way delay: 87.818 ms

Loss rate: 0.00%

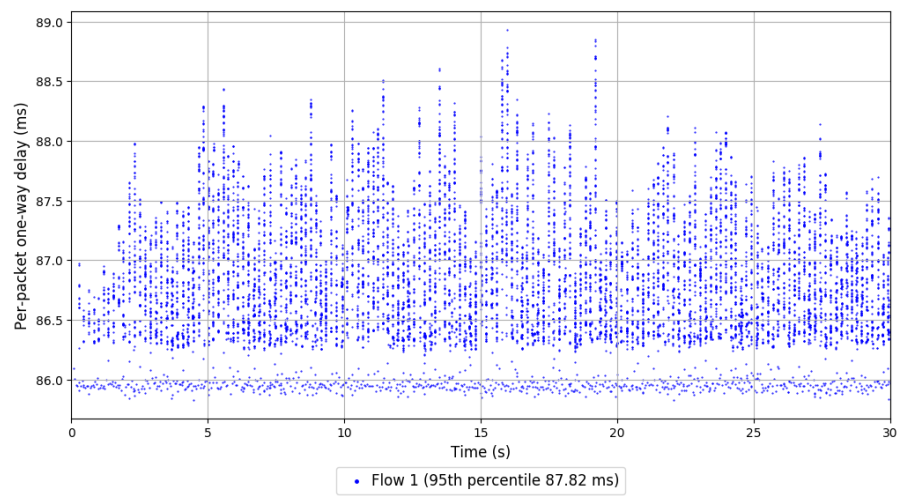
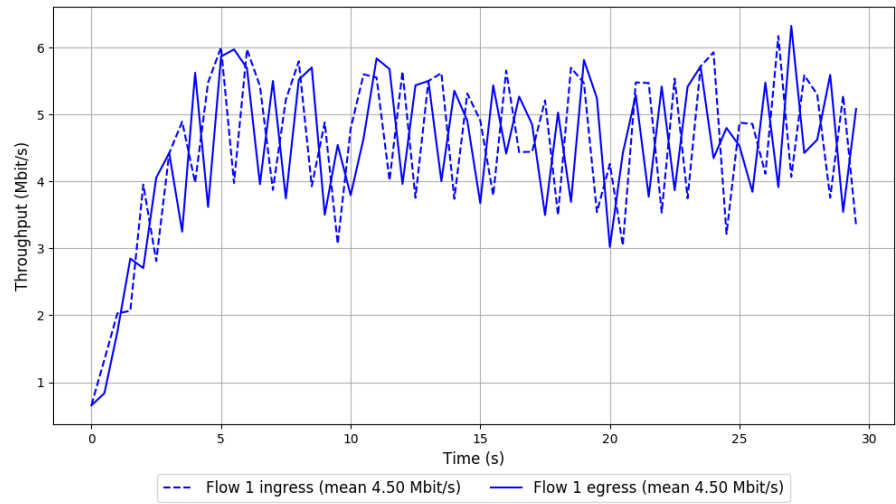
-- Flow 1:

Average throughput: 4.50 Mbit/s

95th percentile per-packet one-way delay: 87.818 ms

Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

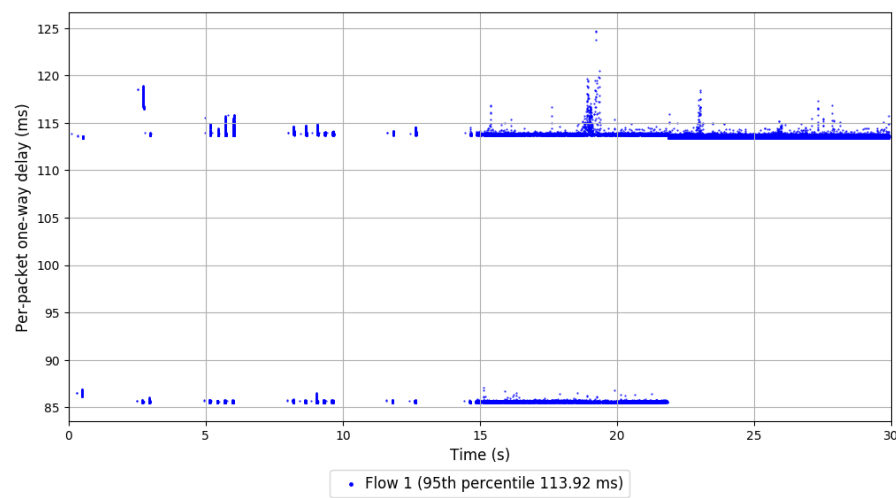
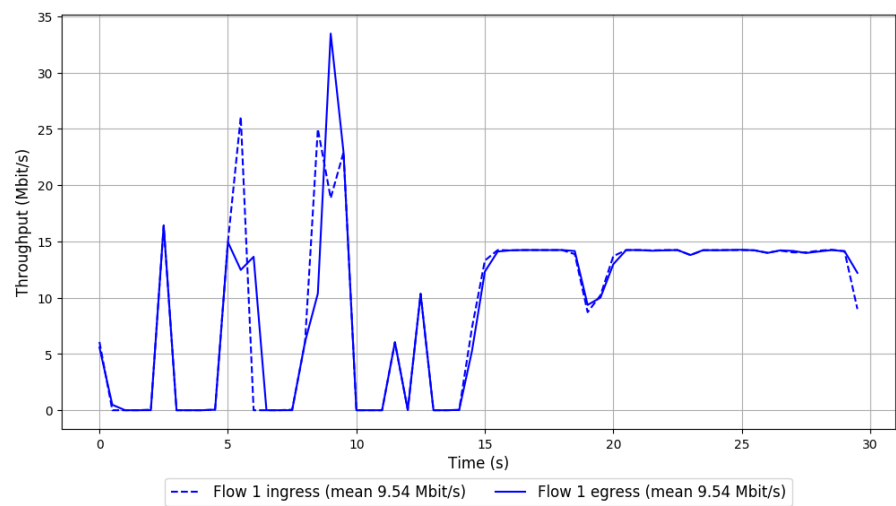


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-02-16 00:35:53
End at: 2018-02-16 00:36:23

# Below is generated by plot.py at 2018-02-16 04:59:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 9.54 Mbit/s
95th percentile per-packet one-way delay: 113.918 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 9.54 Mbit/s
95th percentile per-packet one-way delay: 113.918 ms
Loss rate: 0.00%
```

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

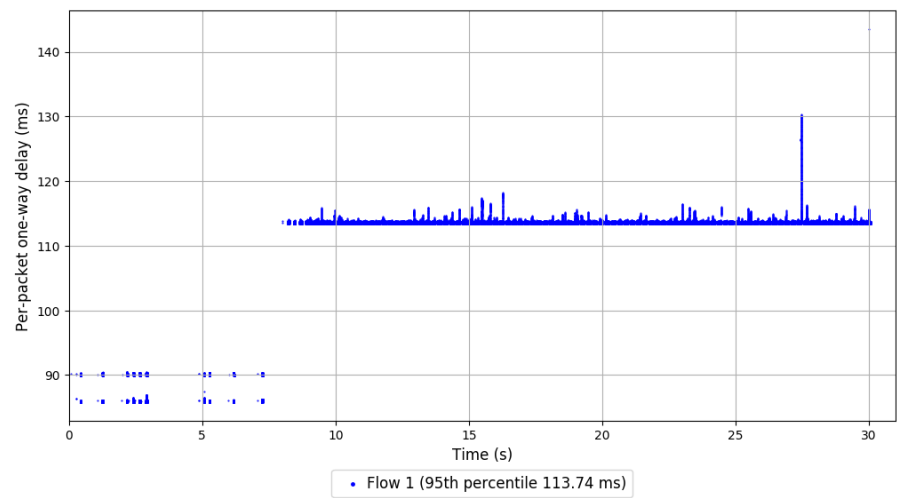
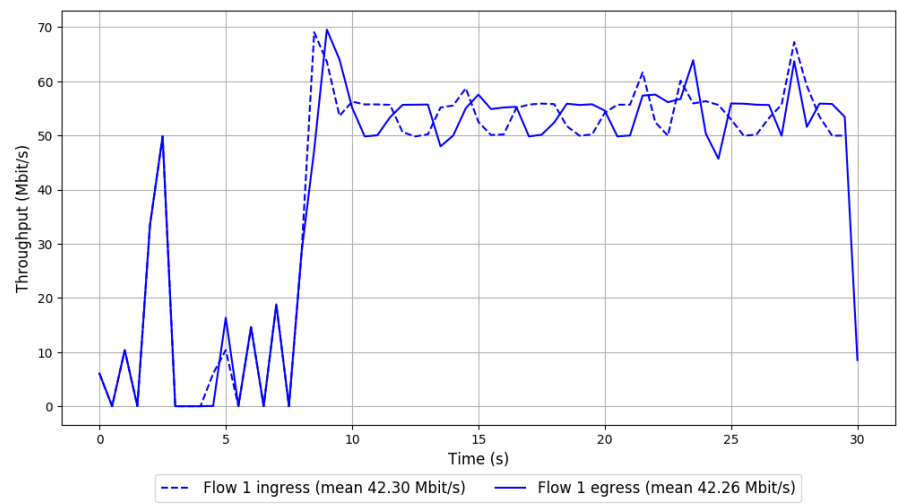


```
Run 2: Statistics of TaoVA-100x

Start at: 2018-02-16 00:50:48
End at: 2018-02-16 00:51:18

# Below is generated by plot.py at 2018-02-16 04:59:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 42.26 Mbit/s
95th percentile per-packet one-way delay: 113.736 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 42.26 Mbit/s
95th percentile per-packet one-way delay: 113.736 ms
Loss rate: 0.01%
```

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

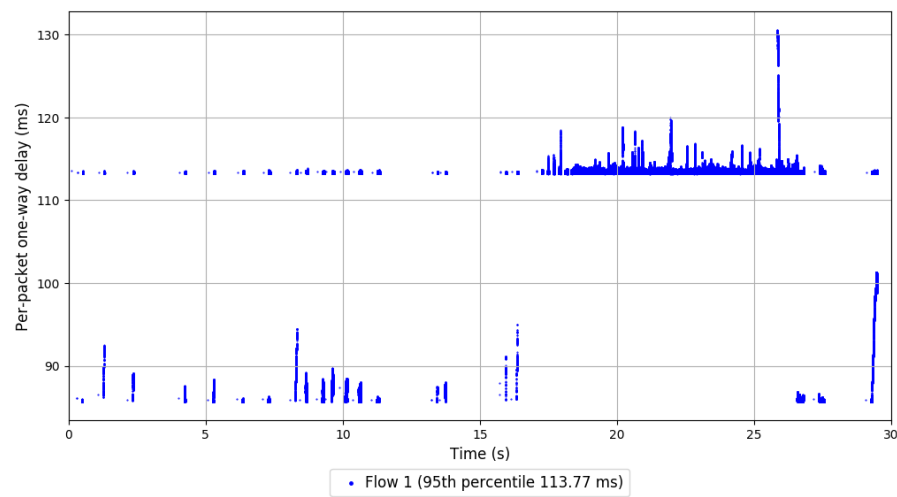
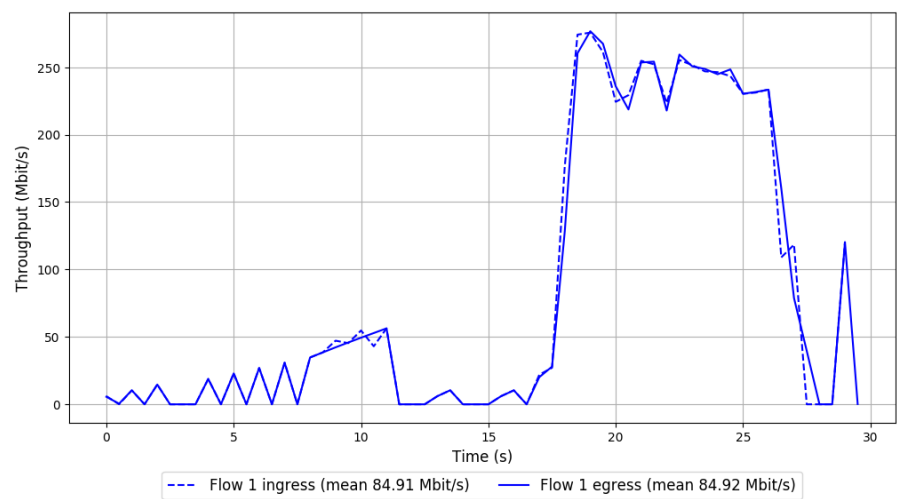


```
Run 3: Statistics of TaoVA-100x

Start at: 2018-02-16 01:05:59
End at: 2018-02-16 01:06:29

# Below is generated by plot.py at 2018-02-16 05:00:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.92 Mbit/s
95th percentile per-packet one-way delay: 113.773 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 84.92 Mbit/s
95th percentile per-packet one-way delay: 113.773 ms
Loss rate: 0.00%
```

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-02-16 01:21:13

End at: 2018-02-16 01:21:43

Below is generated by plot.py at 2018-02-16 05:03:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 162.74 Mbit/s

95th percentile per-packet one-way delay: 86.517 ms

Loss rate: 0.00%

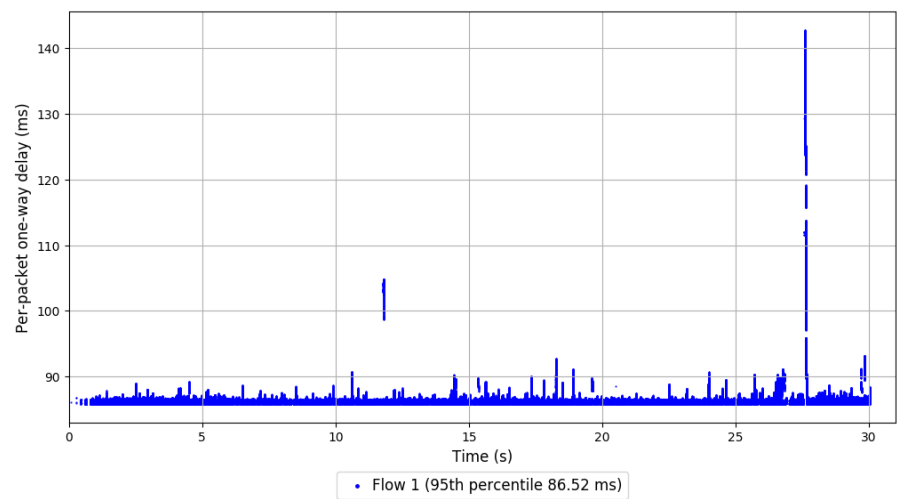
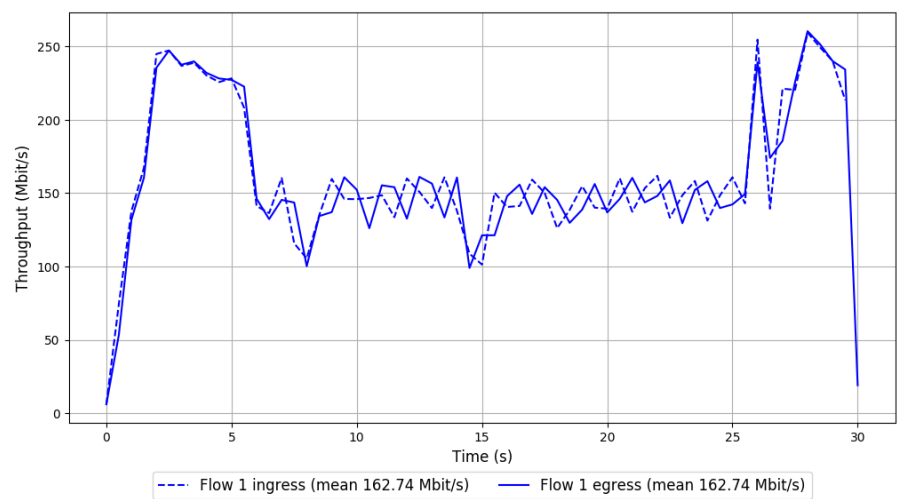
-- Flow 1:

Average throughput: 162.74 Mbit/s

95th percentile per-packet one-way delay: 86.517 ms

Loss rate: 0.00%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-02-16 01:36:37

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

Below is generated by plot.py at 2018-02-16 05:03:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.84 Mbit/s

95th percentile per-packet one-way delay: 114.190 ms

Loss rate: 0.00%

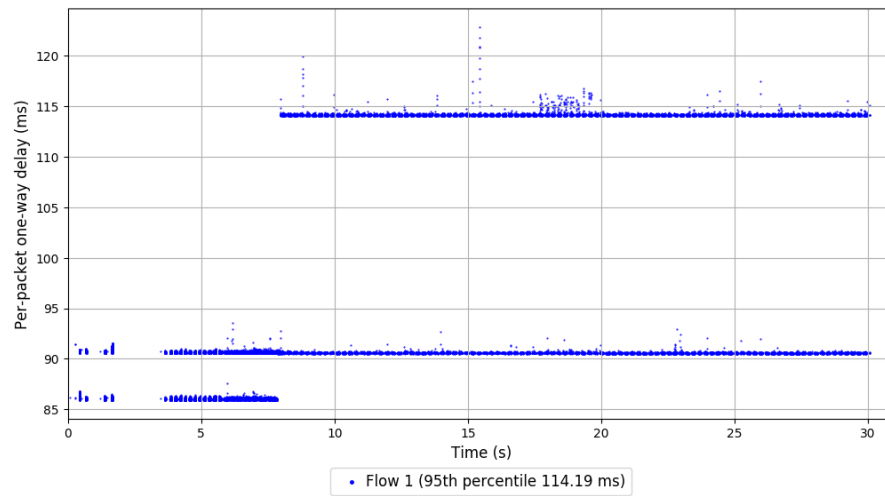
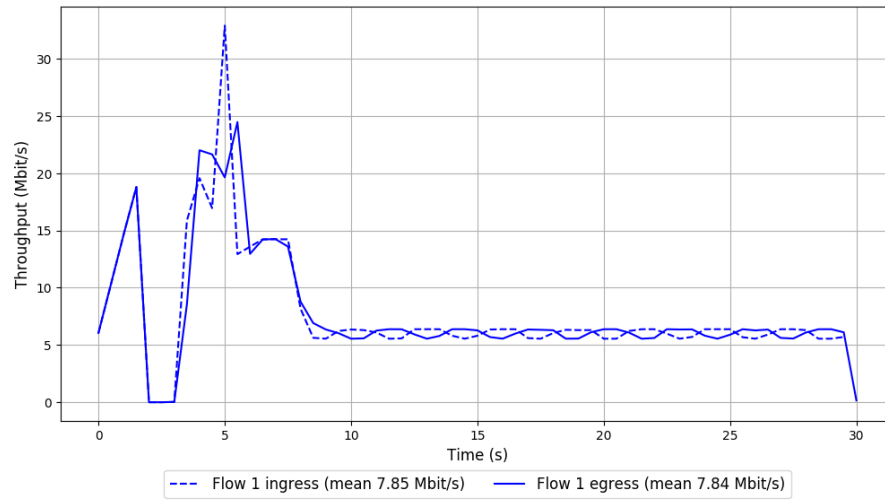
-- Flow 1:

Average throughput: 7.84 Mbit/s

95th percentile per-packet one-way delay: 114.190 ms

Loss rate: 0.00%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-02-16 01:51:36

End at: 2018-02-16 01:52:06

Below is generated by plot.py at 2018-02-16 05:04:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 188.47 Mbit/s

95th percentile per-packet one-way delay: 90.775 ms

Loss rate: 0.65%

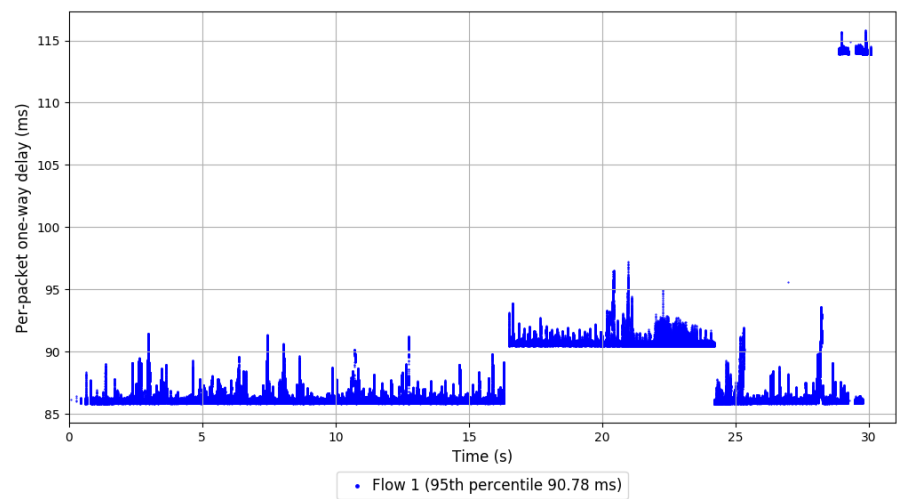
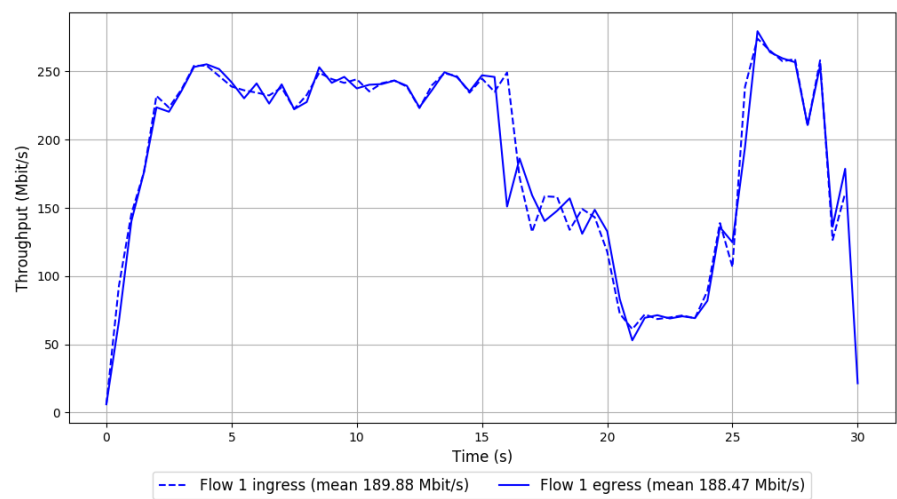
-- Flow 1:

Average throughput: 188.47 Mbit/s

95th percentile per-packet one-way delay: 90.775 ms

Loss rate: 0.65%

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

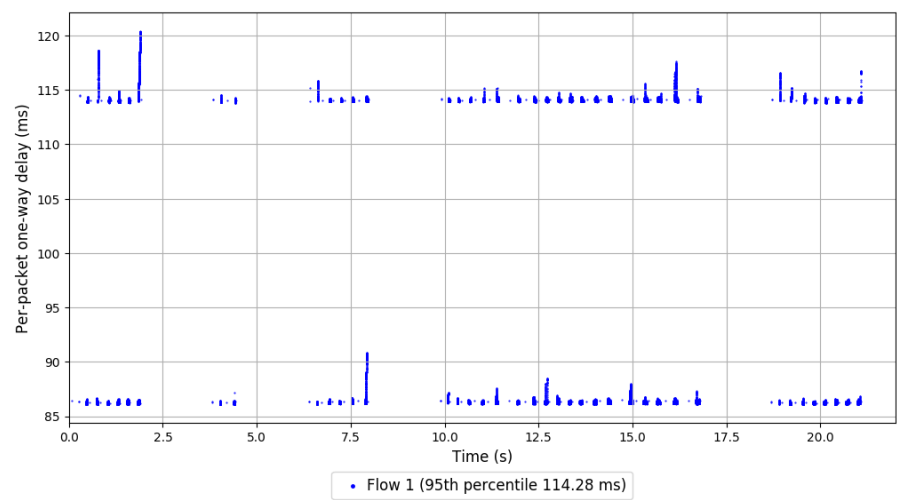
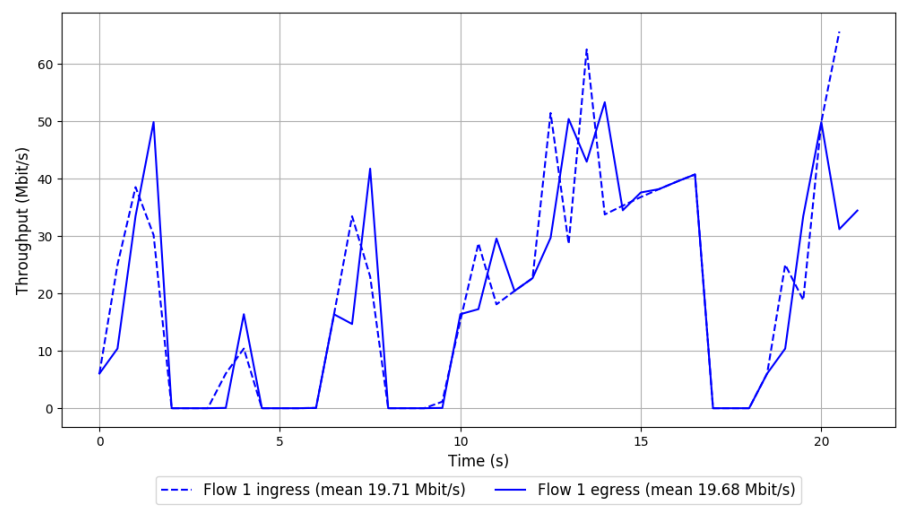


Run 7: Statistics of TaoVA-100x

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

End at: 2018-02-16 02:06:48

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-02-16 02:21:32

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

Below is generated by plot.py at 2018-02-16 05:04:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.83 Mbit/s

95th percentile per-packet one-way delay: 116.354 ms

Loss rate: 0.06%

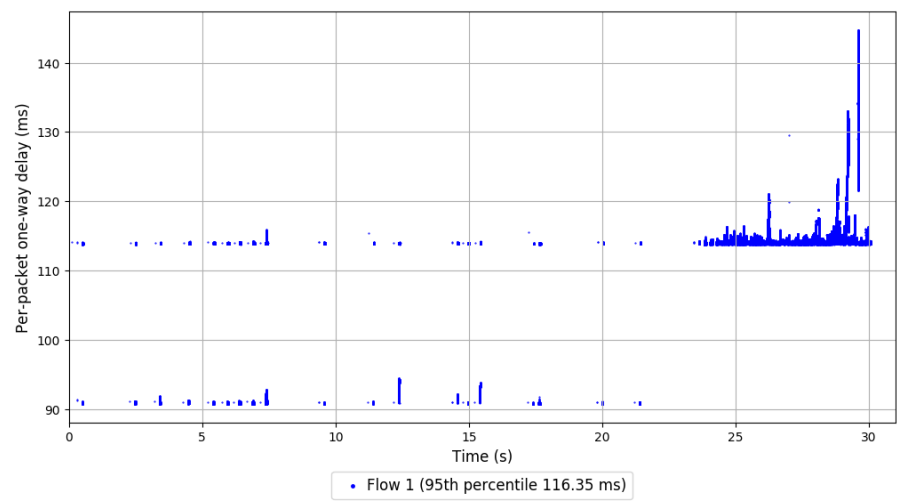
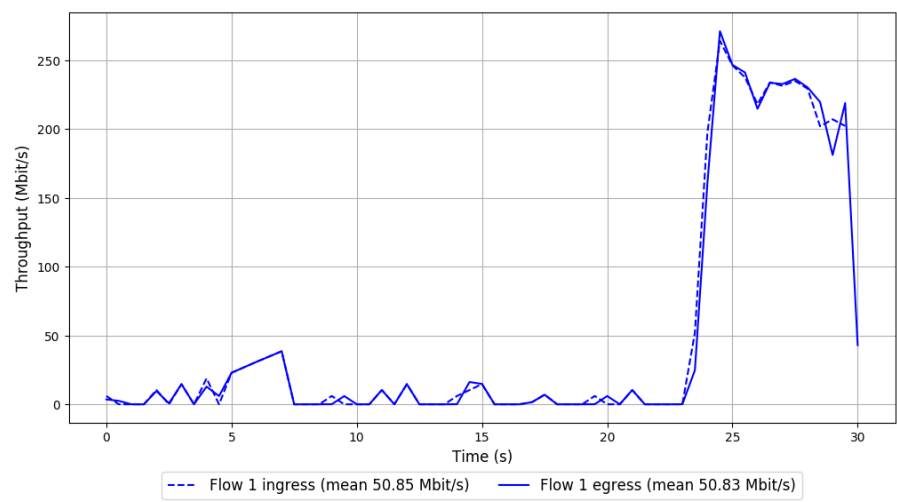
-- Flow 1:

Average throughput: 50.83 Mbit/s

95th percentile per-packet one-way delay: 116.354 ms

Loss rate: 0.06%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-02-16 02:36:55

End at: 2018-02-16 02:37:25

Below is generated by plot.py at 2018-02-16 05:04:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.31 Mbit/s

95th percentile per-packet one-way delay: 113.970 ms

Loss rate: 0.00%

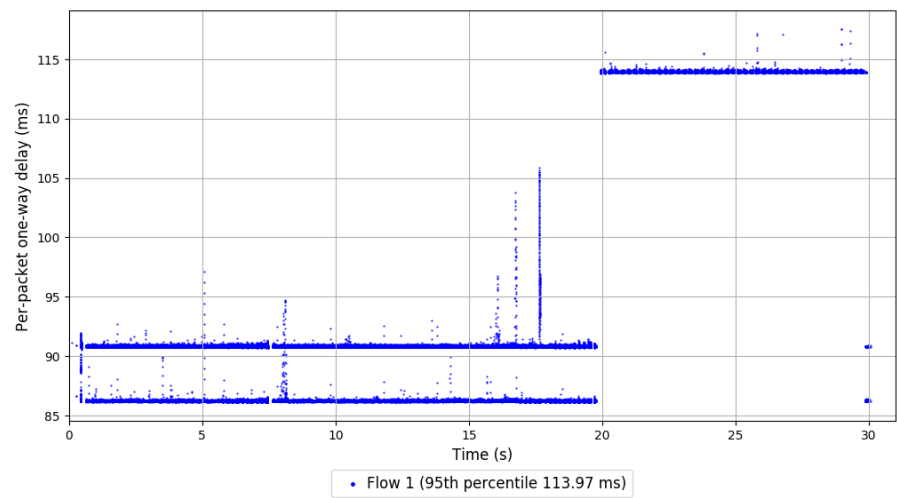
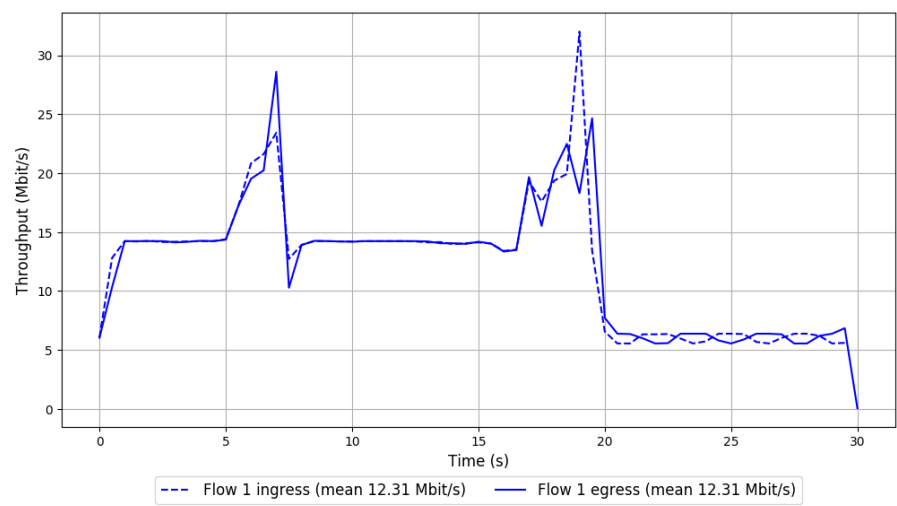
-- Flow 1:

Average throughput: 12.31 Mbit/s

95th percentile per-packet one-way delay: 113.970 ms

Loss rate: 0.00%

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

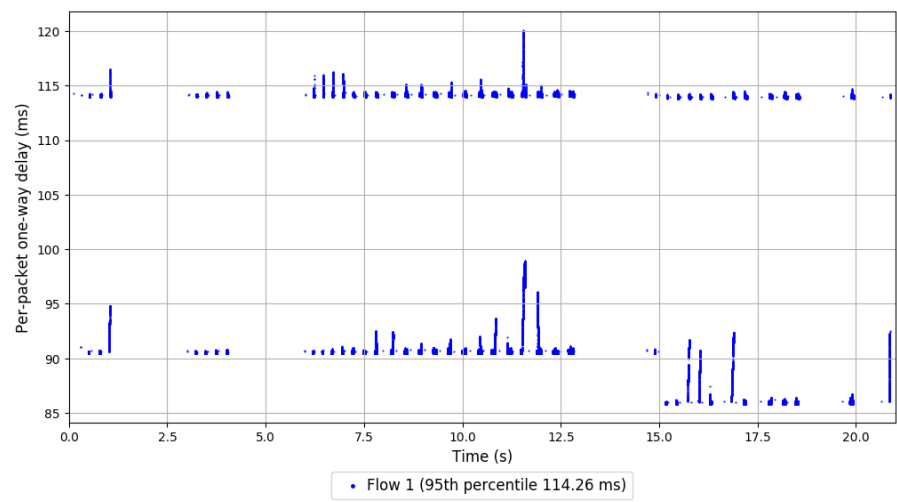
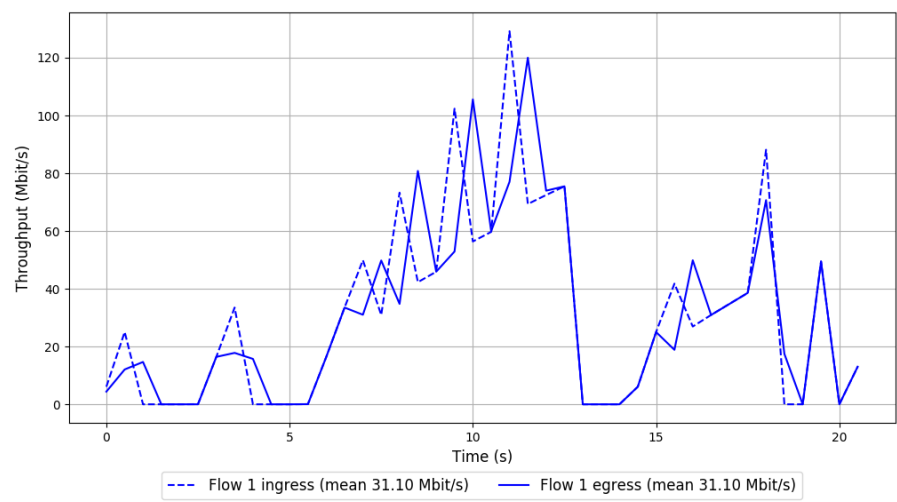


Run 10: Statistics of TaoVA-100x

Start at: 2018-02-16 02:52:00

End at: 2018-02-16 02:52:30

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



Run 1: Statistics of TCP Vegas

Start at: 2018-02-16 00:43:12

End at: 2018-02-16 00:43:42

Below is generated by plot.py at 2018-02-16 05:04:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 43.21 Mbit/s

95th percentile per-packet one-way delay: 114.178 ms

Loss rate: 0.00%

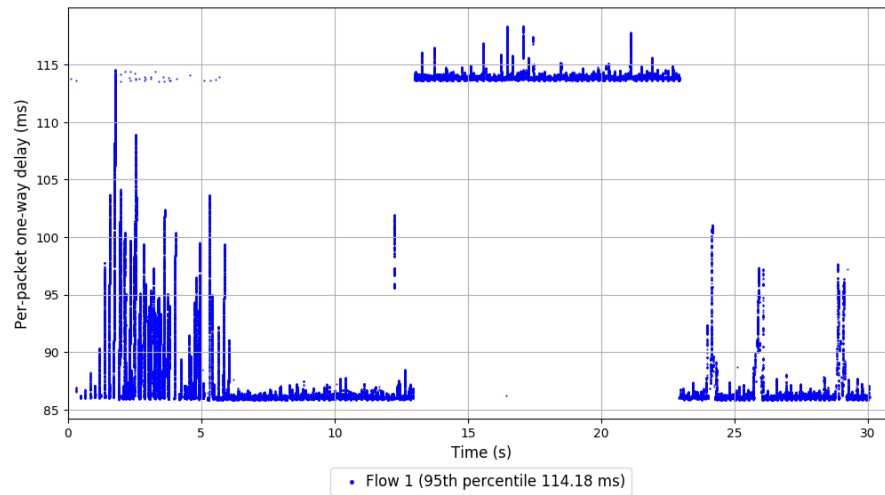
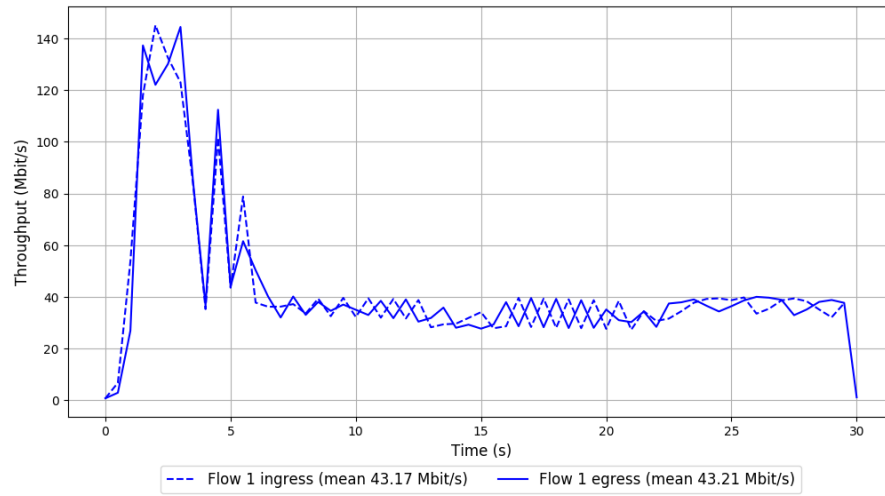
-- Flow 1:

Average throughput: 43.21 Mbit/s

95th percentile per-packet one-way delay: 114.178 ms

Loss rate: 0.00%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-02-16 00:58:07

End at: 2018-02-16 00:58:37

Below is generated by plot.py at 2018-02-16 05:04:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 37.07 Mbit/s

95th percentile per-packet one-way delay: 114.395 ms

Loss rate: 0.00%

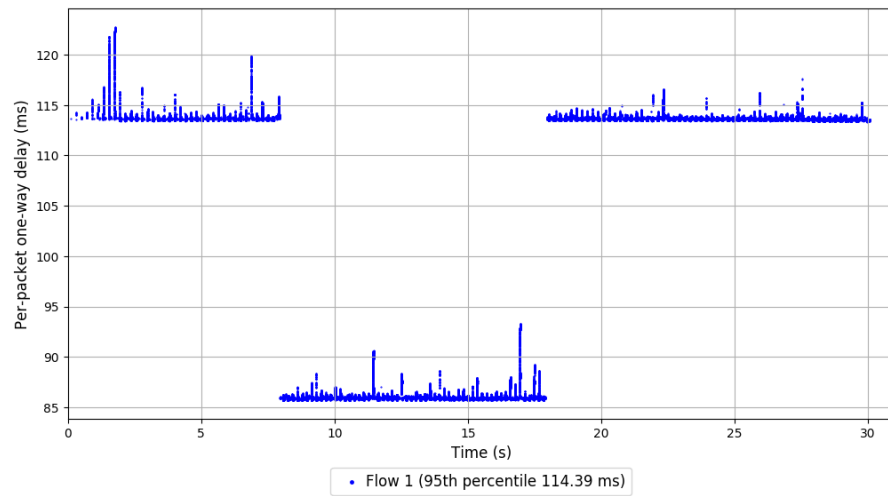
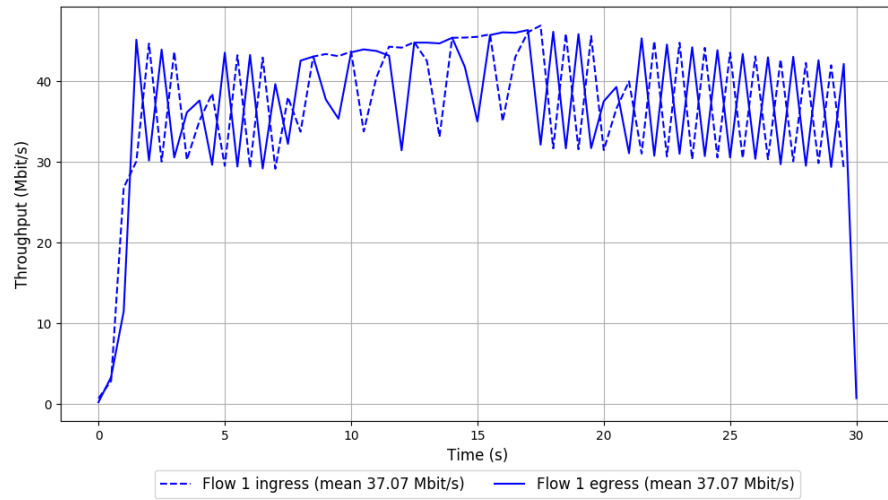
-- Flow 1:

Average throughput: 37.07 Mbit/s

95th percentile per-packet one-way delay: 114.395 ms

Loss rate: 0.00%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-02-16 01:13:38

End at: 2018-02-16 01:14:08

Below is generated by plot.py at 2018-02-16 05:04:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 125.17 Mbit/s

95th percentile per-packet one-way delay: 99.778 ms

Loss rate: 0.00%

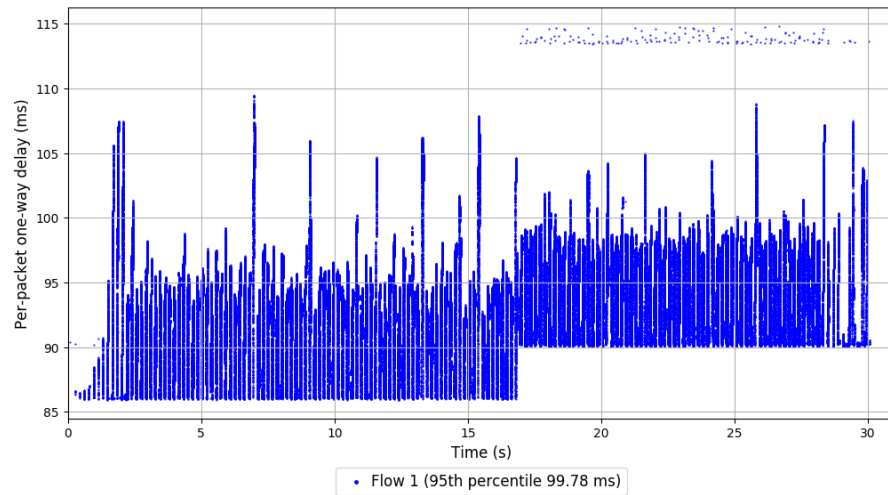
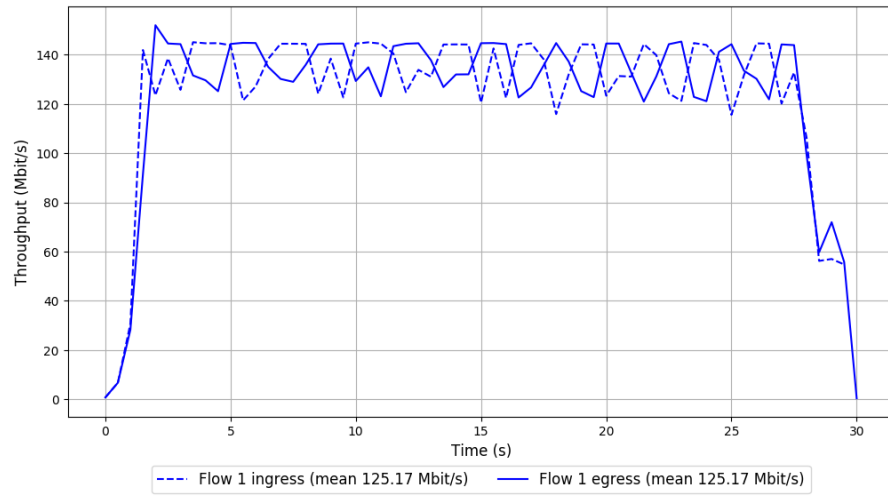
-- Flow 1:

Average throughput: 125.17 Mbit/s

95th percentile per-packet one-way delay: 99.778 ms

Loss rate: 0.00%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-02-16 01:28:53

End at: 2018-02-16 01:29:23

Below is generated by plot.py at 2018-02-16 05:04:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 124.69 Mbit/s

95th percentile per-packet one-way delay: 101.402 ms

Loss rate: 0.00%

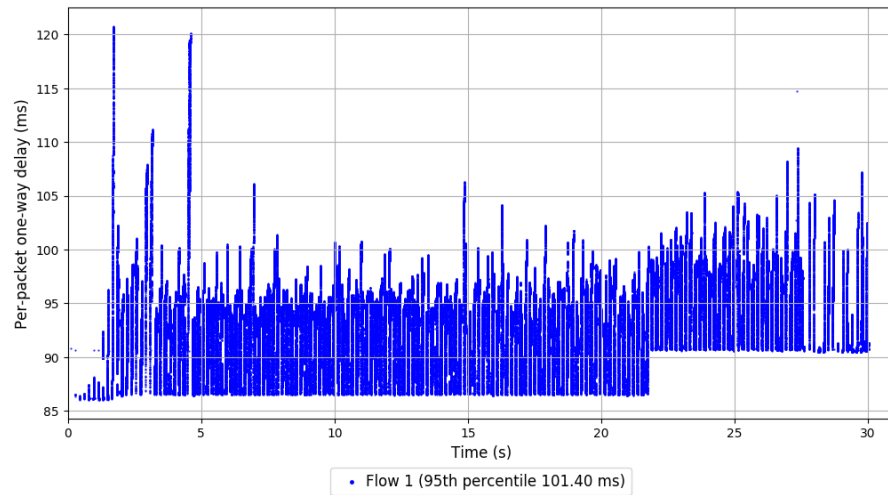
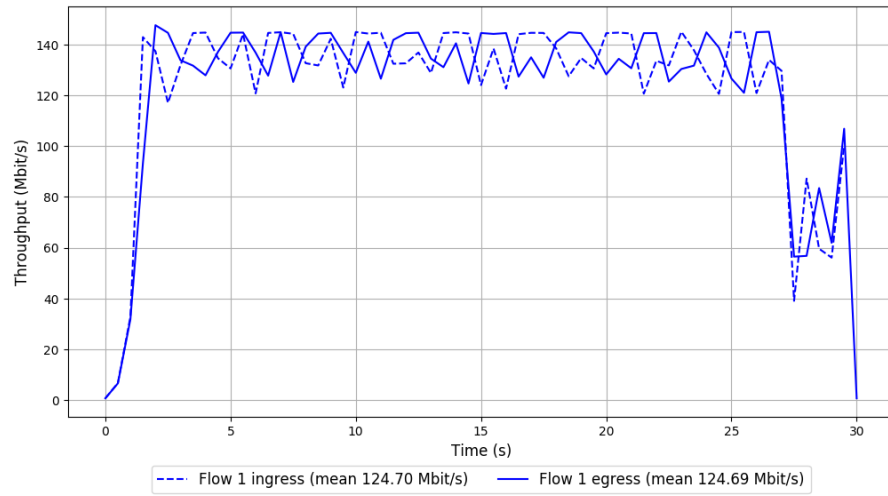
-- Flow 1:

Average throughput: 124.69 Mbit/s

95th percentile per-packet one-way delay: 101.402 ms

Loss rate: 0.00%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-02-16 01:43:58

End at: 2018-02-16 01:44:28

Below is generated by plot.py at 2018-02-16 05:04:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 108.59 Mbit/s

95th percentile per-packet one-way delay: 130.394 ms

Loss rate: 0.24%

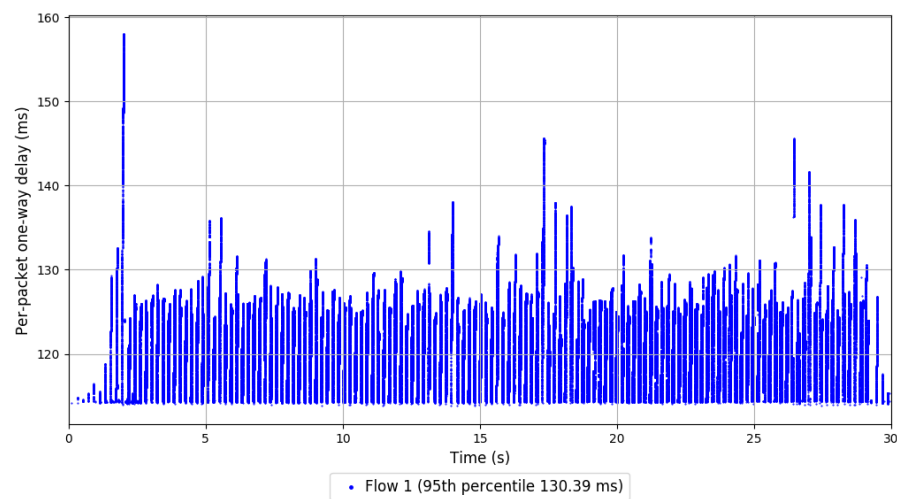
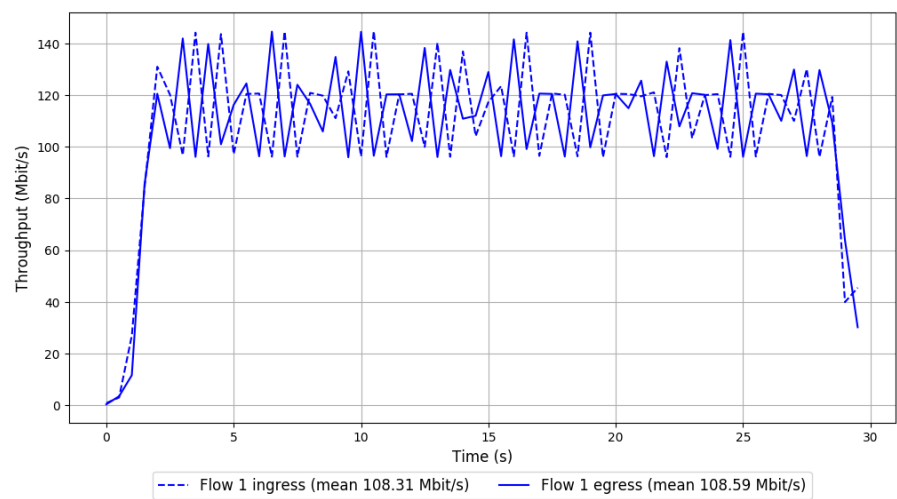
-- Flow 1:

Average throughput: 108.59 Mbit/s

95th percentile per-packet one-way delay: 130.394 ms

Loss rate: 0.24%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-02-16 01:59:05

End at: 2018-02-16 01:59:35

Below is generated by plot.py at 2018-02-16 05:04:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 123.78 Mbit/s

95th percentile per-packet one-way delay: 125.496 ms

Loss rate: 0.05%

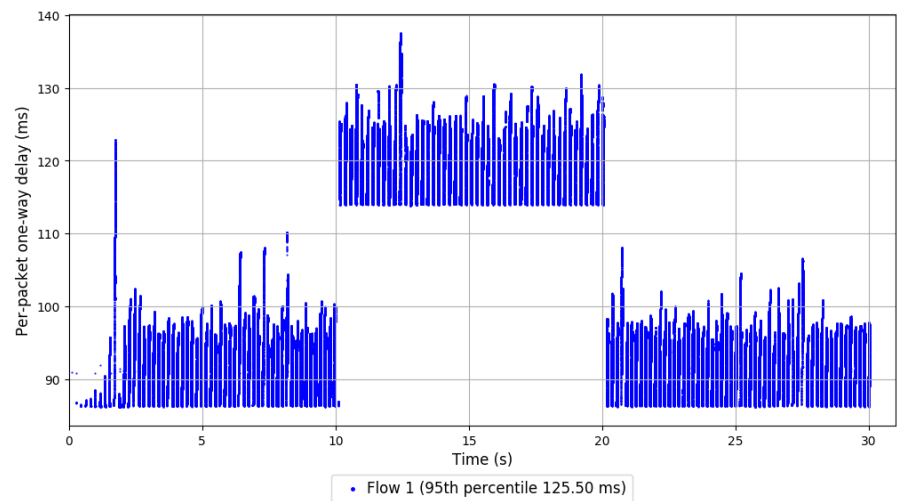
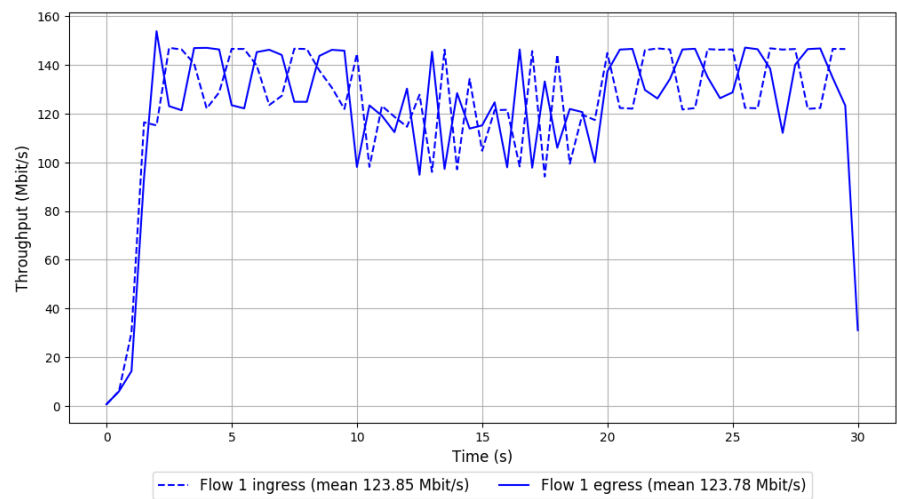
-- Flow 1:

Average throughput: 123.78 Mbit/s

95th percentile per-packet one-way delay: 125.496 ms

Loss rate: 0.05%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

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

End at: 2018-02-16 02:14:12

Below is generated by plot.py at 2018-02-16 05:04:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.92 Mbit/s

95th percentile per-packet one-way delay: 114.330 ms

Loss rate: 0.00%

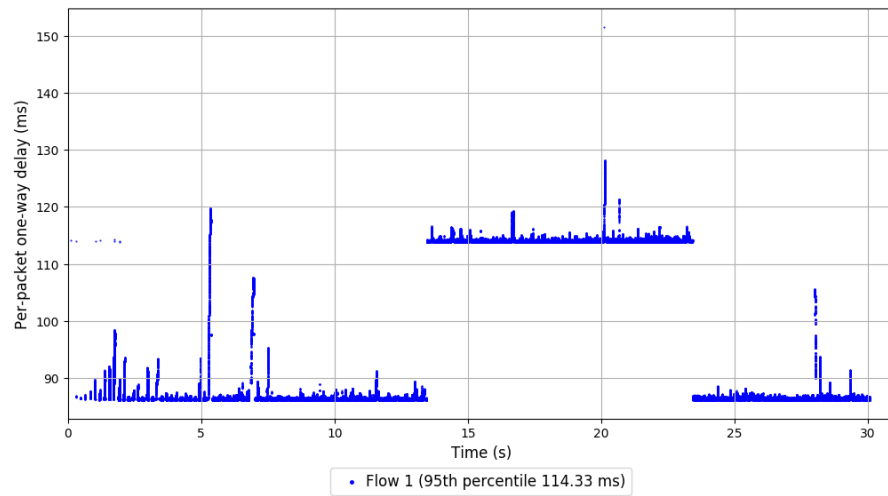
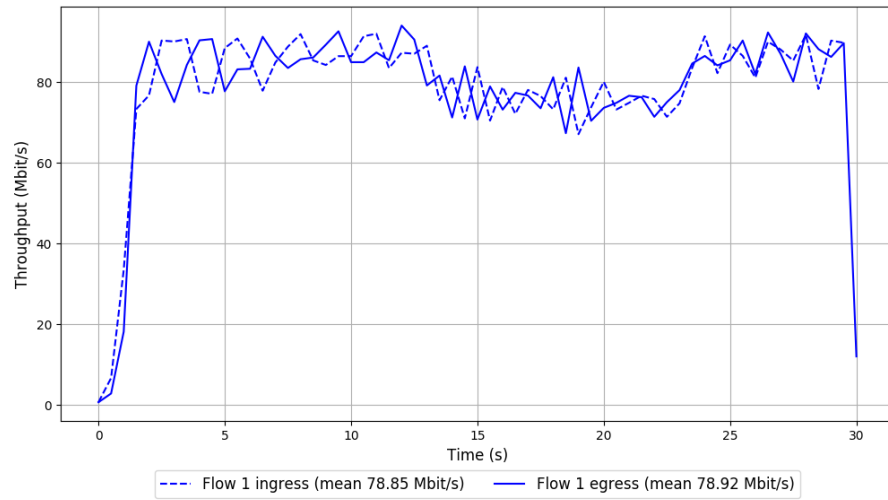
-- Flow 1:

Average throughput: 78.92 Mbit/s

95th percentile per-packet one-way delay: 114.330 ms

Loss rate: 0.00%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-02-16 02:29:09

End at: 2018-02-16 02:29:39

Below is generated by plot.py at 2018-02-16 05:04:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 70.40 Mbit/s

95th percentile per-packet one-way delay: 113.999 ms

Loss rate: 0.00%

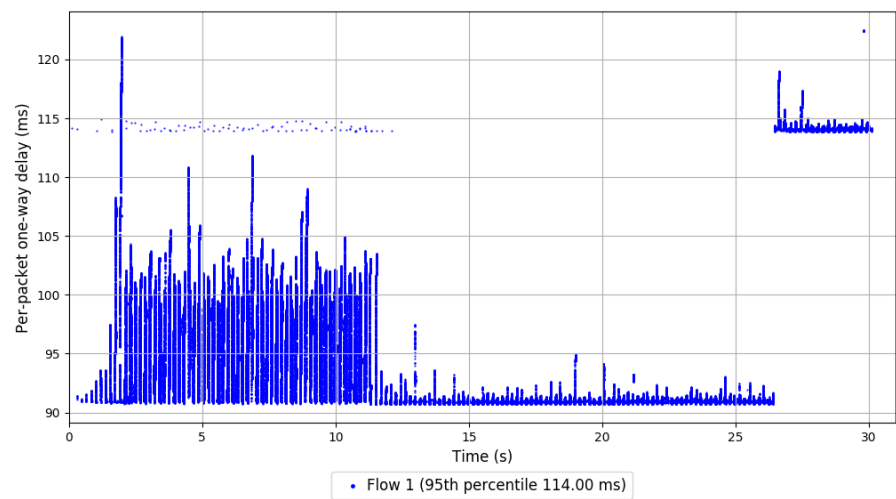
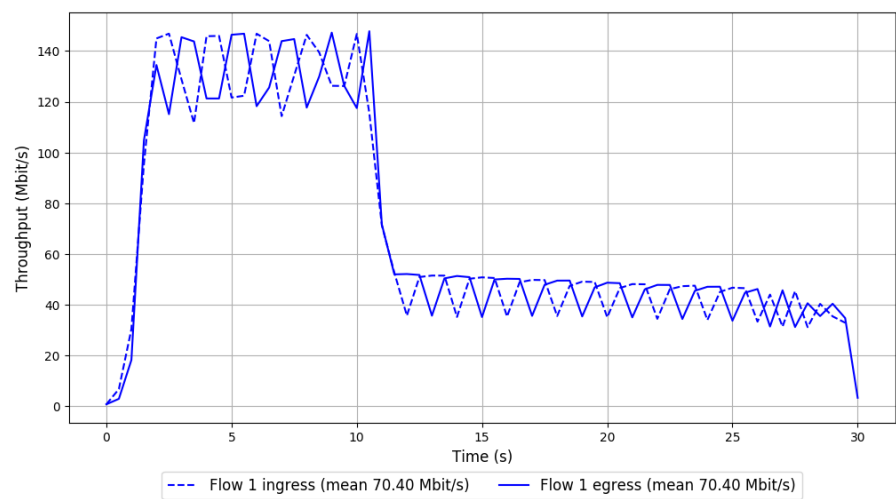
-- Flow 1:

Average throughput: 70.40 Mbit/s

95th percentile per-packet one-way delay: 113.999 ms

Loss rate: 0.00%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

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

End at: 2018-02-16 02:44:57

Below is generated by plot.py at 2018-02-16 05:04:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 126.96 Mbit/s

95th percentile per-packet one-way delay: 102.265 ms

Loss rate: 0.00%

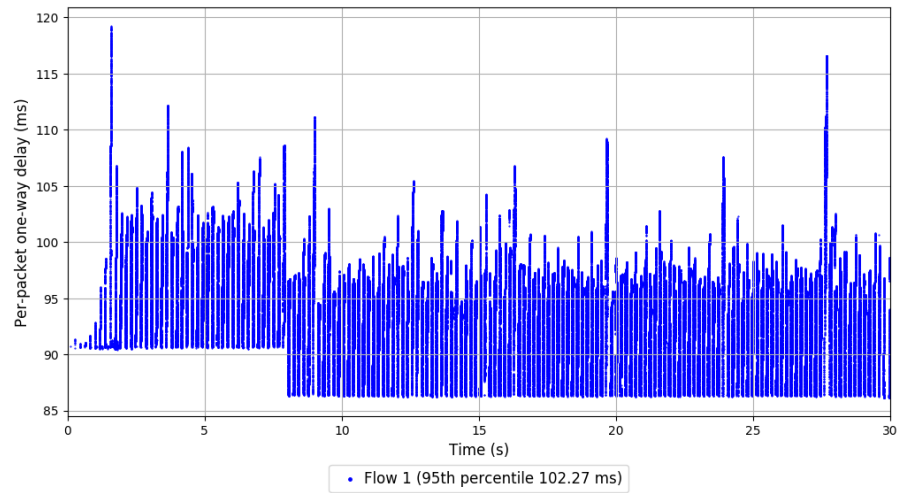
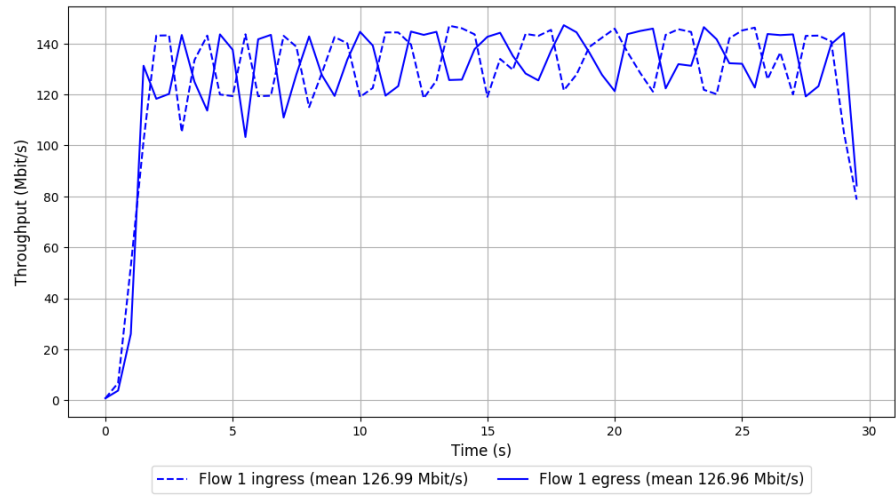
-- Flow 1:

Average throughput: 126.96 Mbit/s

95th percentile per-packet one-way delay: 102.265 ms

Loss rate: 0.00%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

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

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

Below is generated by plot.py at 2018-02-16 05:04:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 40.91 Mbit/s

95th percentile per-packet one-way delay: 97.389 ms

Loss rate: 0.00%

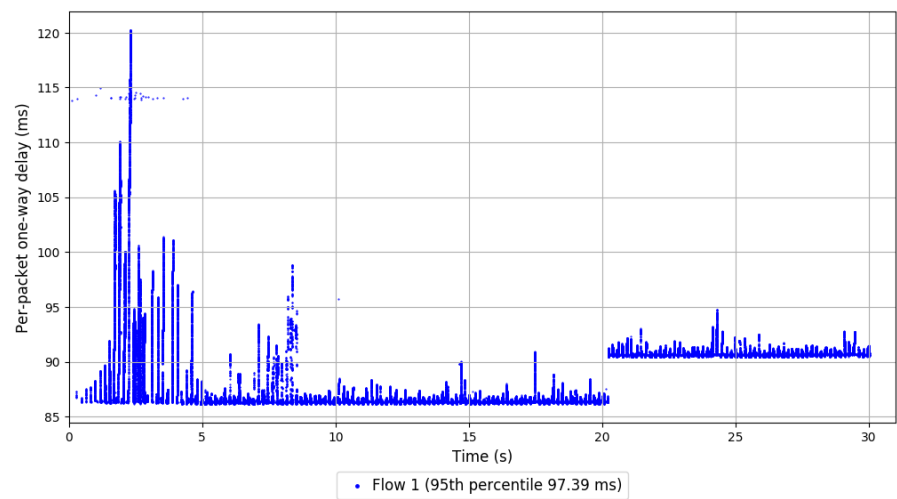
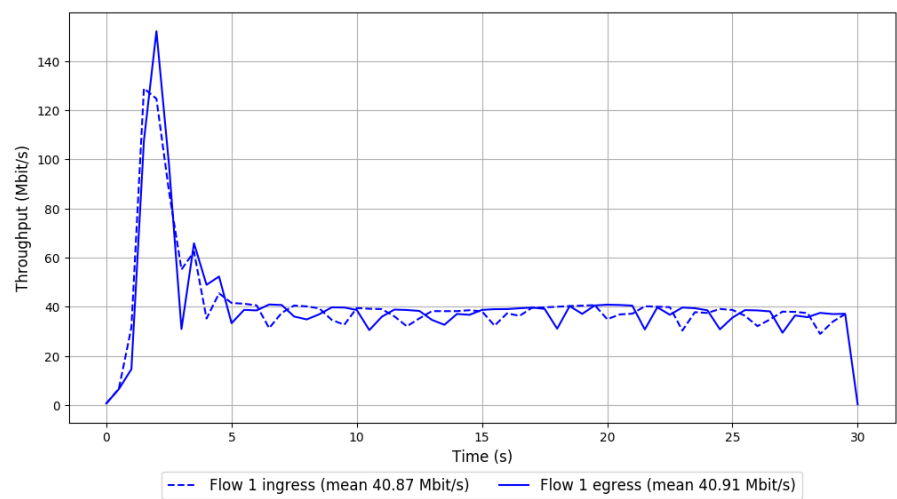
-- Flow 1:

Average throughput: 40.91 Mbit/s

95th percentile per-packet one-way delay: 97.389 ms

Loss rate: 0.00%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-02-16 00:37:15

End at: 2018-02-16 00:37:45

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 197.82 Mbit/s

95th percentile per-packet one-way delay: 164.789 ms

Loss rate: 0.47%

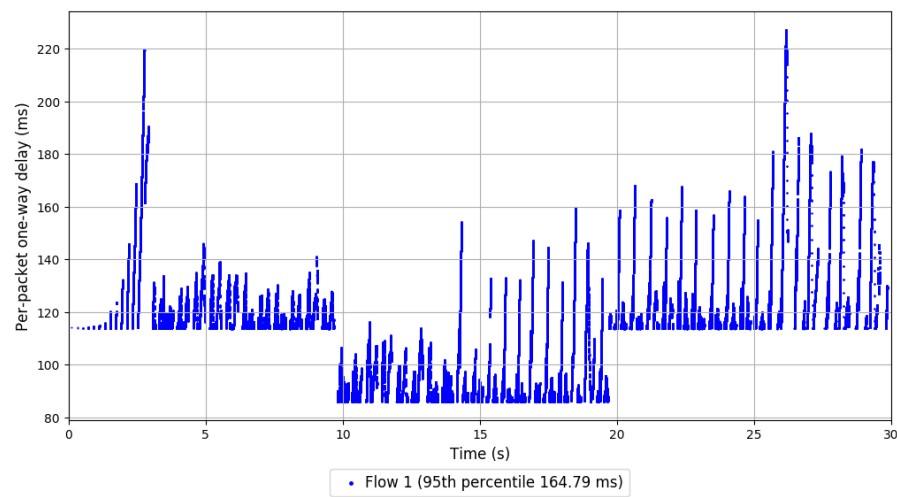
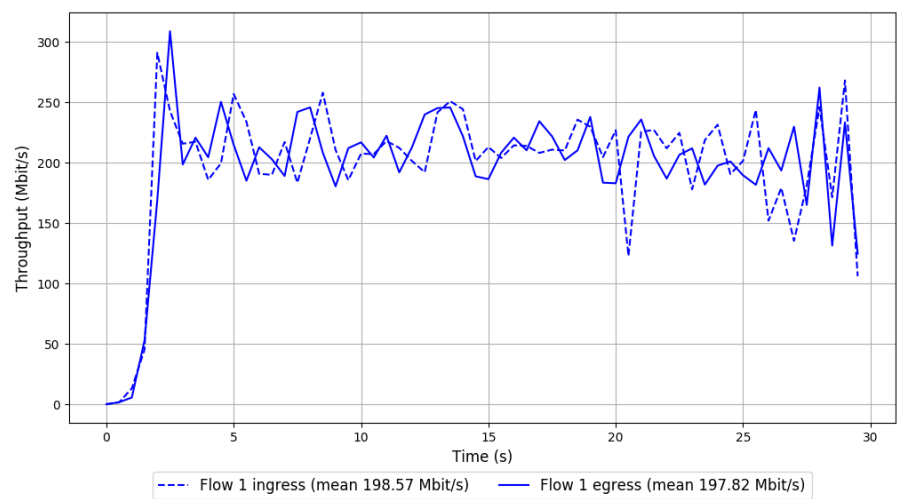
-- Flow 1:

Average throughput: 197.82 Mbit/s

95th percentile per-packet one-way delay: 164.789 ms

Loss rate: 0.47%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-02-16 00:52:13

End at: 2018-02-16 00:52:43

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 147.81 Mbit/s

95th percentile per-packet one-way delay: 170.437 ms

Loss rate: 1.71%

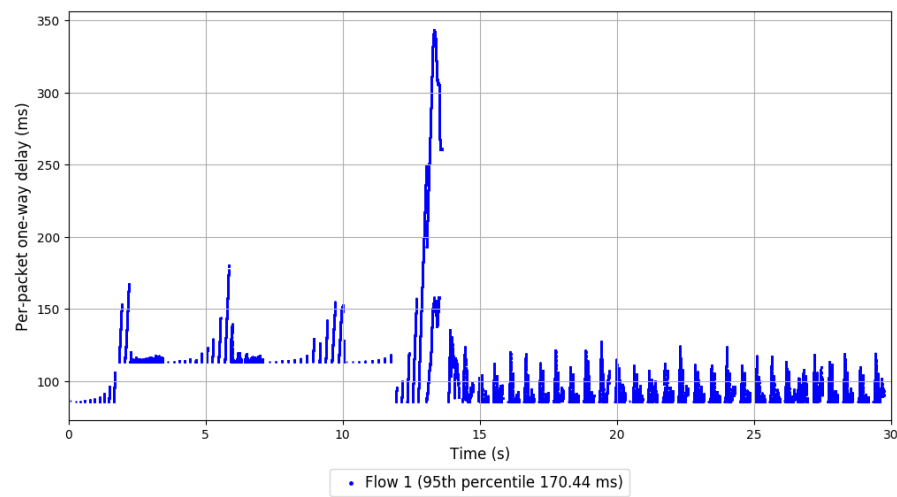
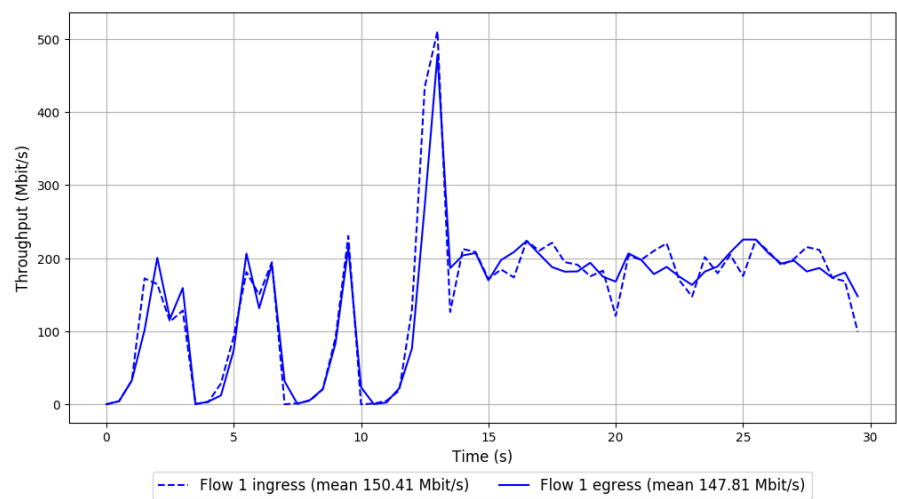
-- Flow 1:

Average throughput: 147.81 Mbit/s

95th percentile per-packet one-way delay: 170.437 ms

Loss rate: 1.71%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-02-16 01:07:26

End at: 2018-02-16 01:07:56

Below is generated by plot.py at 2018-02-16 05:06:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 217.48 Mbit/s

95th percentile per-packet one-way delay: 140.629 ms

Loss rate: 0.72%

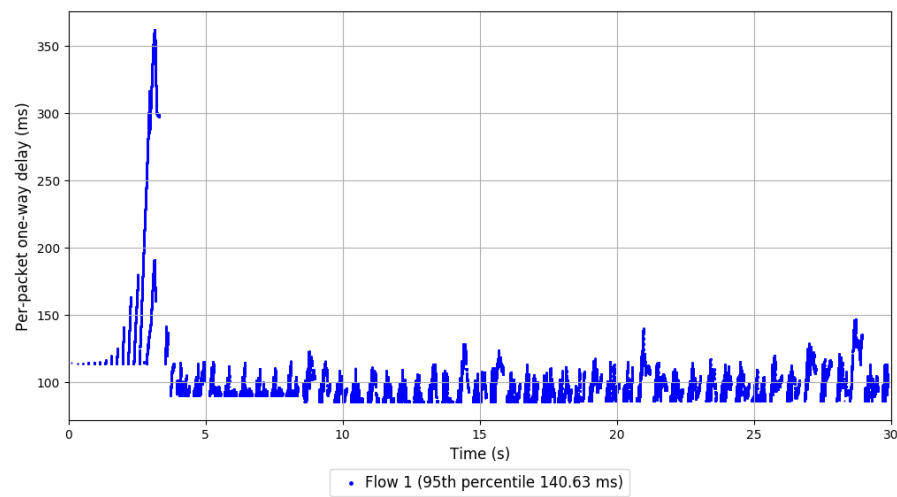
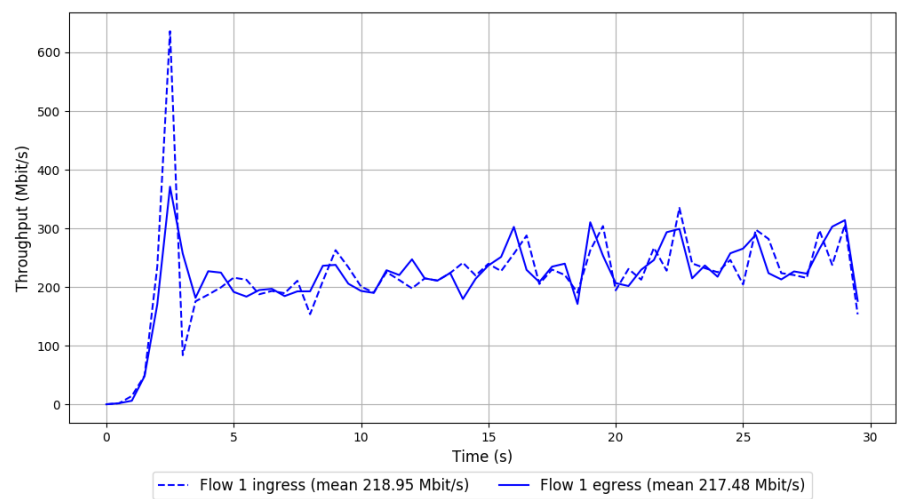
-- Flow 1:

Average throughput: 217.48 Mbit/s

95th percentile per-packet one-way delay: 140.629 ms

Loss rate: 0.72%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-02-16 01:22:48

End at: 2018-02-16 01:23:18

Below is generated by plot.py at 2018-02-16 05:06:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 173.16 Mbit/s

95th percentile per-packet one-way delay: 204.316 ms

Loss rate: 1.15%

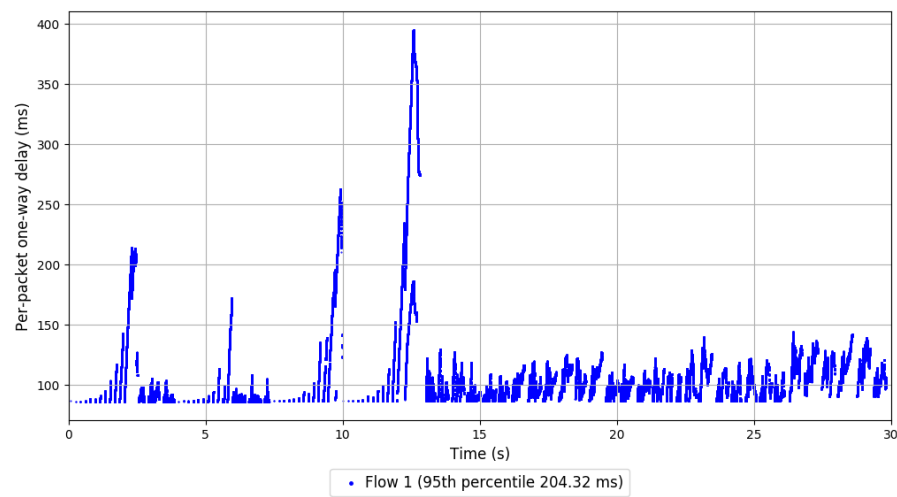
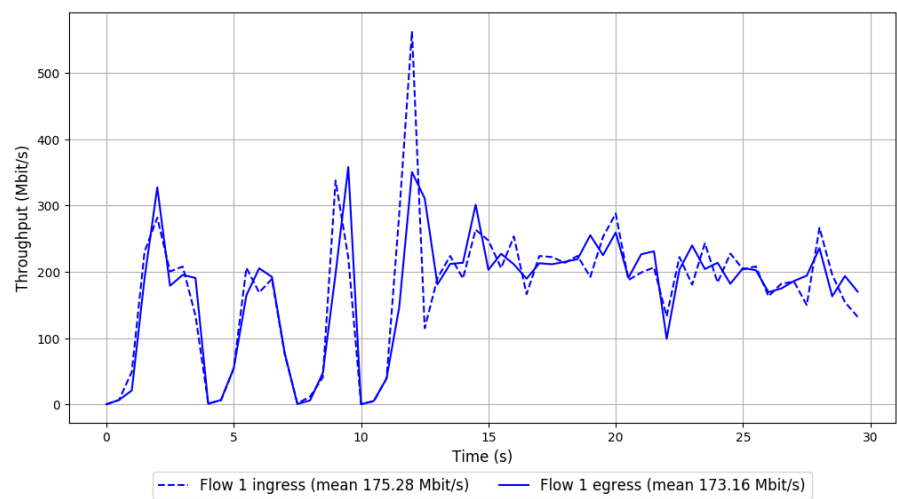
-- Flow 1:

Average throughput: 173.16 Mbit/s

95th percentile per-packet one-way delay: 204.316 ms

Loss rate: 1.15%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-02-16 01:37:58

End at: 2018-02-16 01:38:28

Below is generated by plot.py at 2018-02-16 05:06:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 182.60 Mbit/s

95th percentile per-packet one-way delay: 278.745 ms

Loss rate: 2.63%

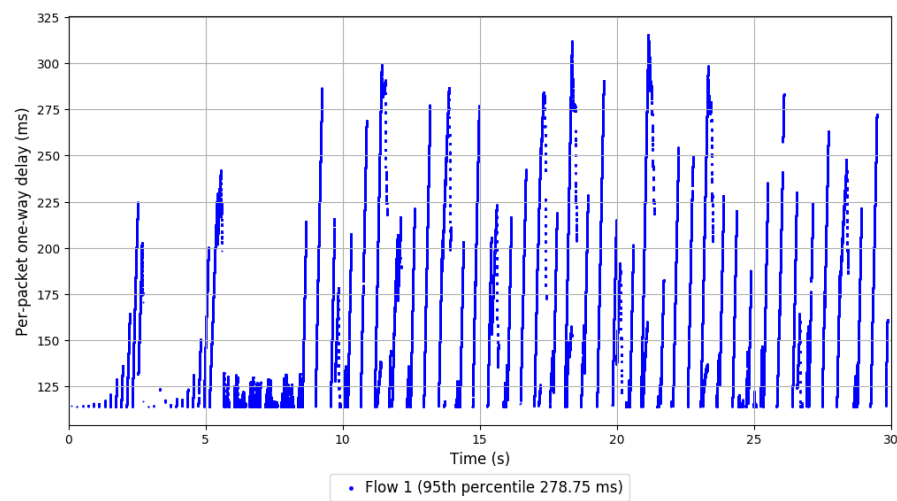
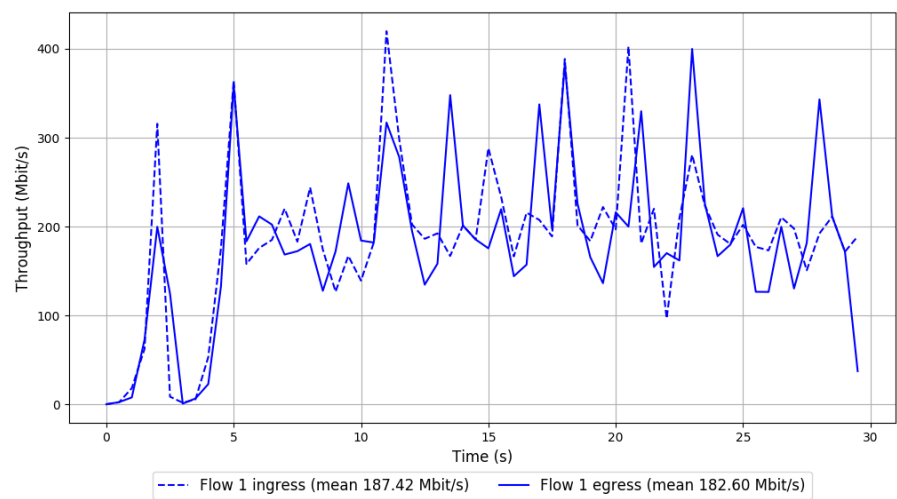
-- Flow 1:

Average throughput: 182.60 Mbit/s

95th percentile per-packet one-way delay: 278.745 ms

Loss rate: 2.63%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-02-16 01:53:14

End at: 2018-02-16 01:53:44

Below is generated by plot.py at 2018-02-16 05:07:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 191.01 Mbit/s

95th percentile per-packet one-way delay: 171.668 ms

Loss rate: 1.83%

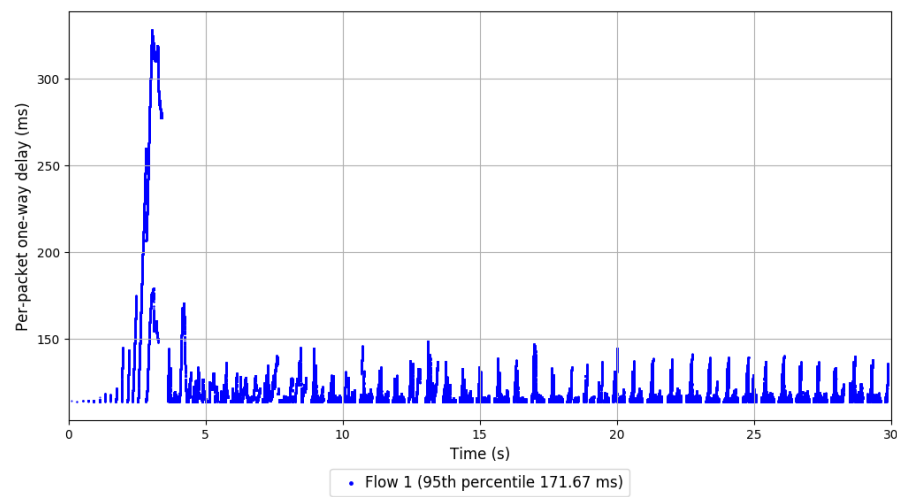
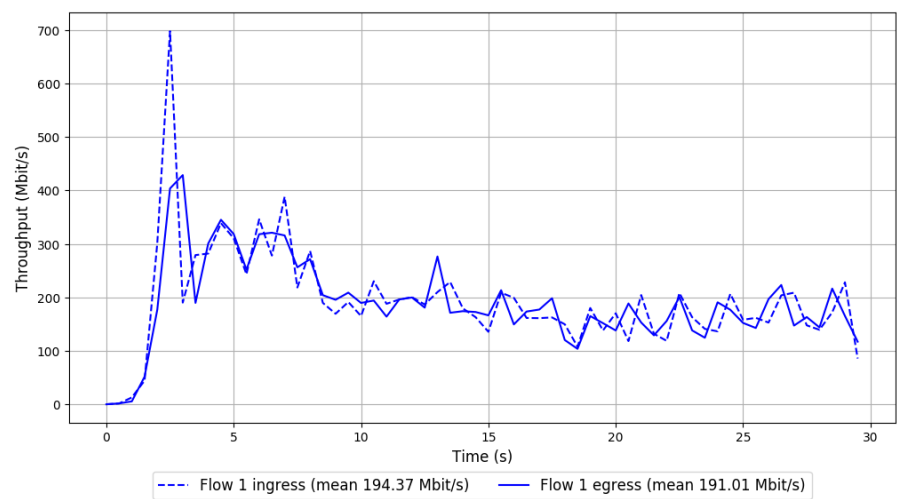
-- Flow 1:

Average throughput: 191.01 Mbit/s

95th percentile per-packet one-way delay: 171.668 ms

Loss rate: 1.83%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-02-16 02:07:39

End at: 2018-02-16 02:08:09

Below is generated by plot.py at 2018-02-16 05:07:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 195.86 Mbit/s

95th percentile per-packet one-way delay: 160.729 ms

Loss rate: 0.45%

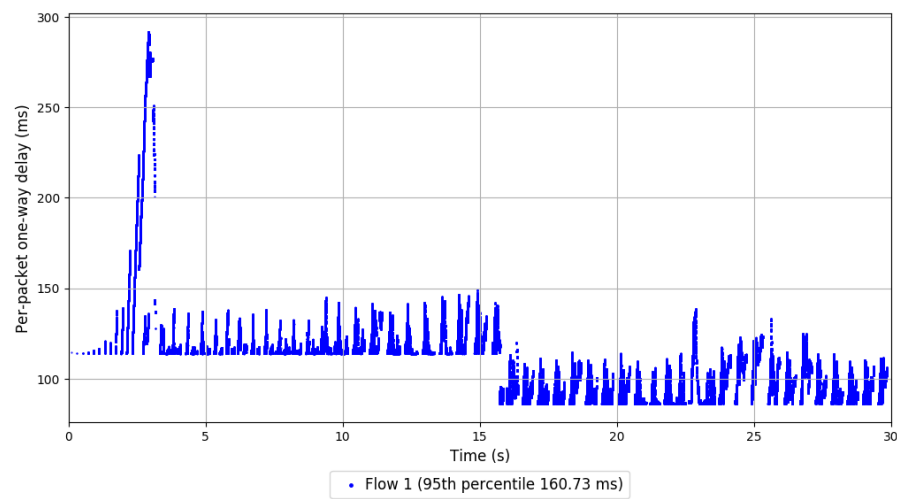
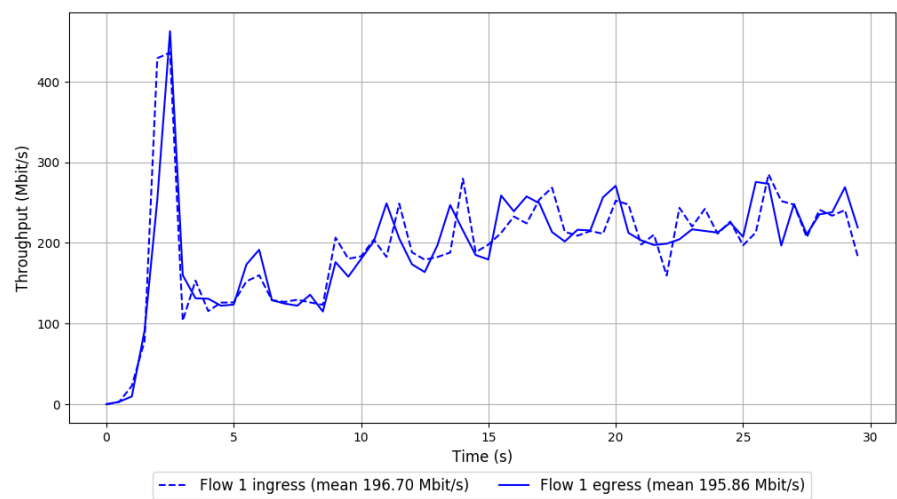
-- Flow 1:

Average throughput: 195.86 Mbit/s

95th percentile per-packet one-way delay: 160.729 ms

Loss rate: 0.45%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-02-16 02:22:59

End at: 2018-02-16 02:23:29

Below is generated by plot.py at 2018-02-16 05:08:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 217.29 Mbit/s

95th percentile per-packet one-way delay: 148.457 ms

Loss rate: 0.98%

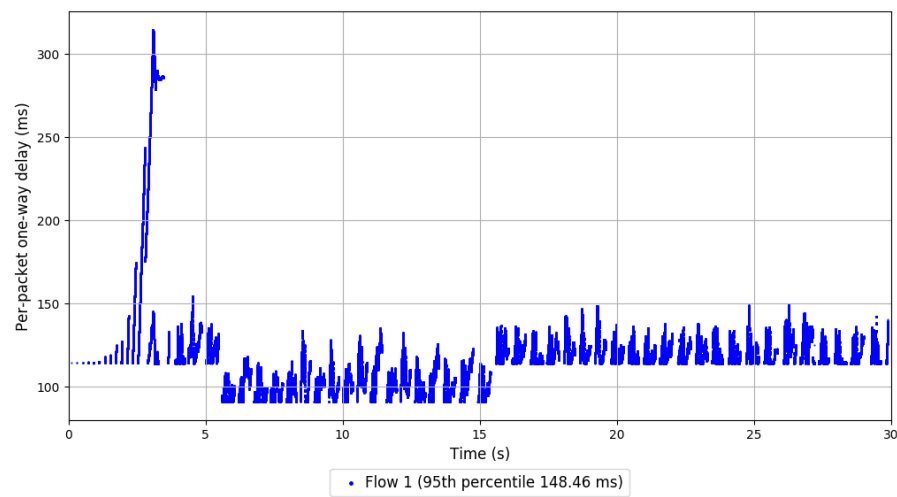
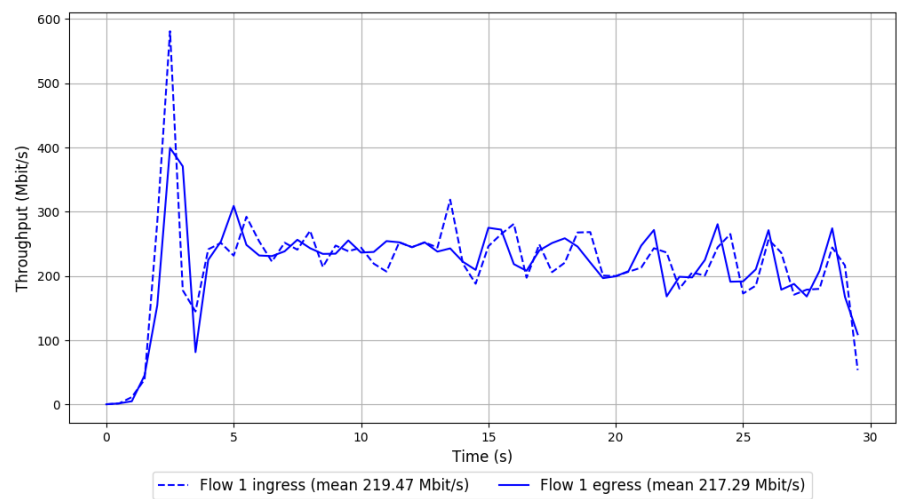
-- Flow 1:

Average throughput: 217.29 Mbit/s

95th percentile per-packet one-way delay: 148.457 ms

Loss rate: 0.98%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

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

End at: 2018-02-16 02:38:48

Below is generated by plot.py at 2018-02-16 05:08:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 187.36 Mbit/s

95th percentile per-packet one-way delay: 172.671 ms

Loss rate: 0.00%

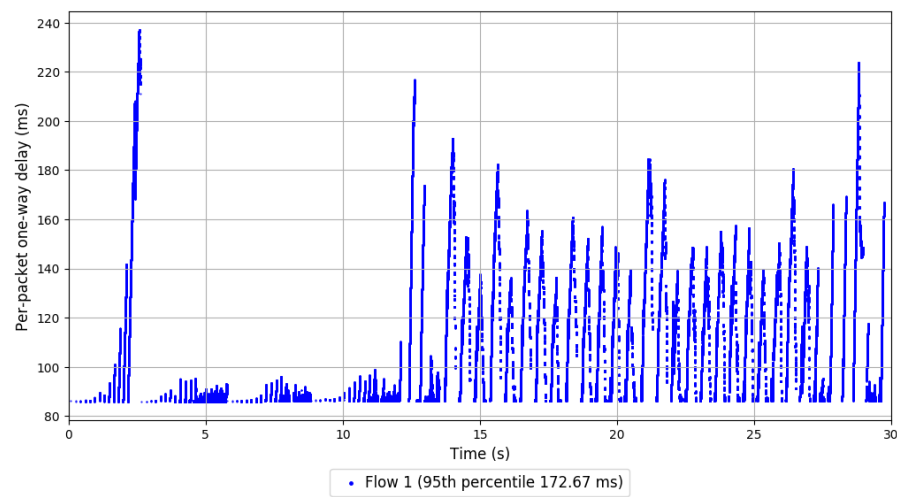
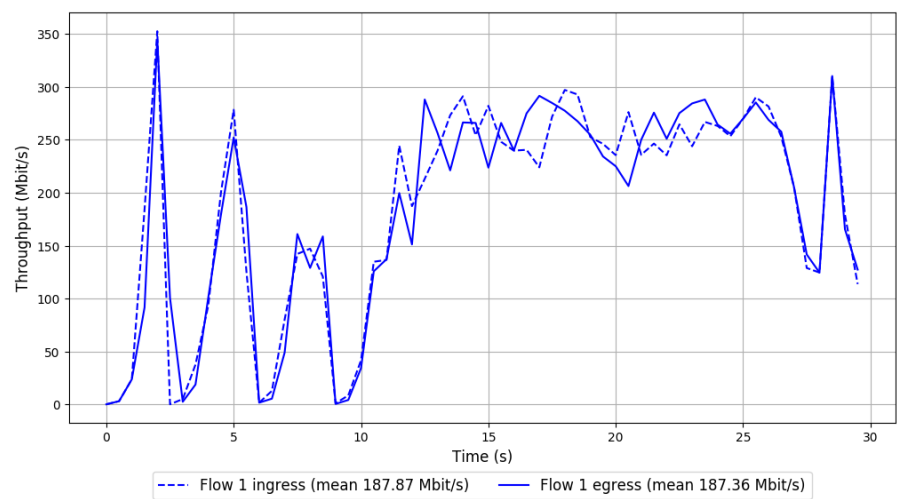
-- Flow 1:

Average throughput: 187.36 Mbit/s

95th percentile per-packet one-way delay: 172.671 ms

Loss rate: 0.00%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

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

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

Below is generated by plot.py at 2018-02-16 05:08:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 161.56 Mbit/s

95th percentile per-packet one-way delay: 131.050 ms

Loss rate: 0.00%

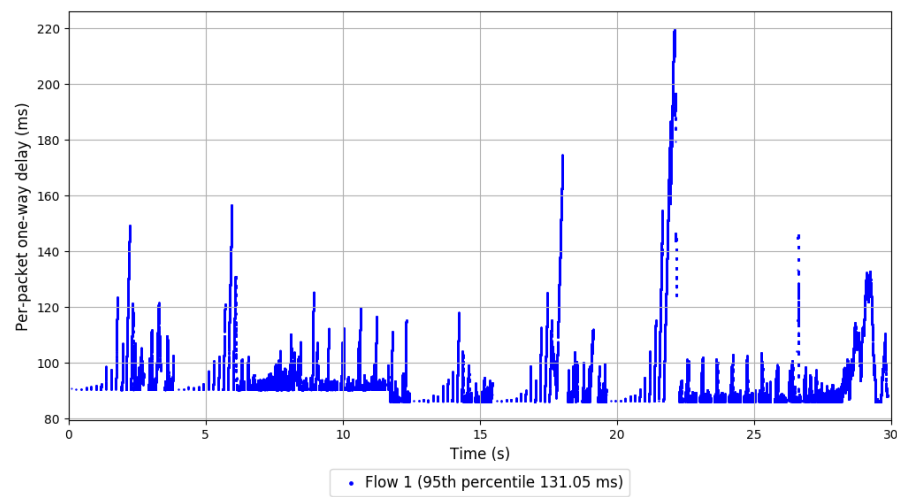
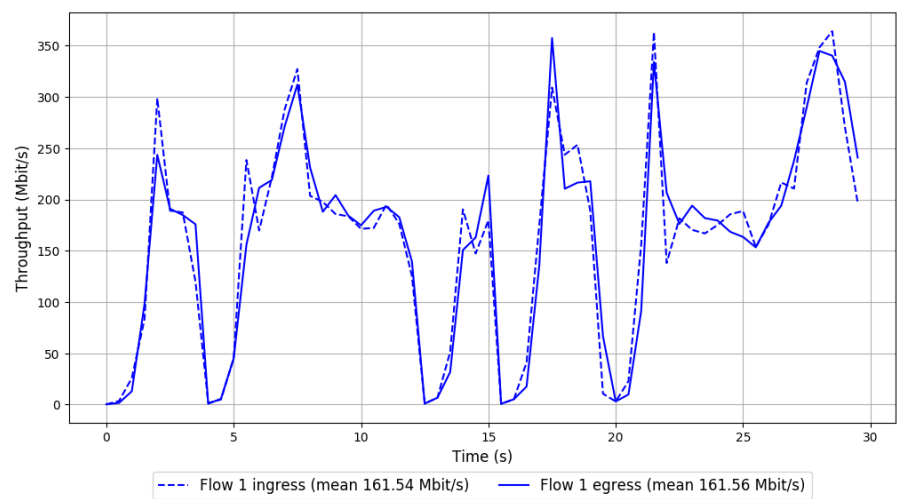
-- Flow 1:

Average throughput: 161.56 Mbit/s

95th percentile per-packet one-way delay: 131.050 ms

Loss rate: 0.00%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2018-02-16 00:45:51

End at: 2018-02-16 00:46:21

Below is generated by plot.py at 2018-02-16 05:08:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 36.14 Mbit/s

95th percentile per-packet one-way delay: 113.782 ms

Loss rate: 0.00%

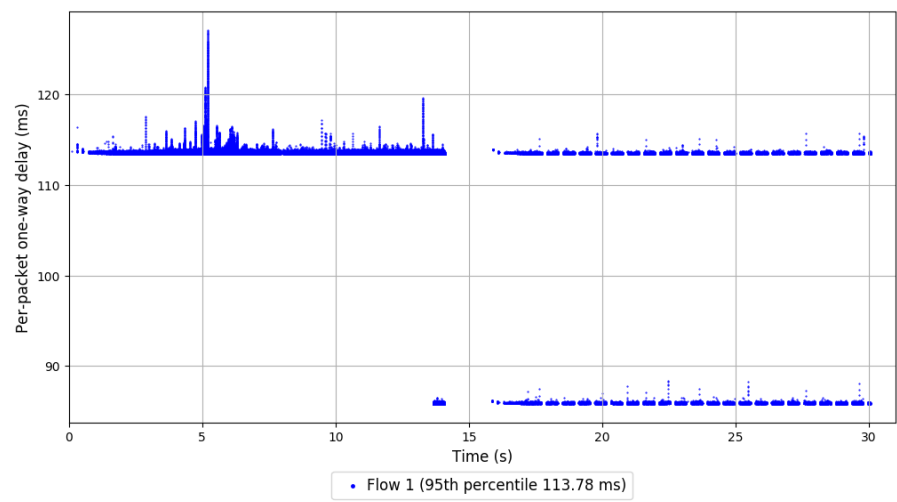
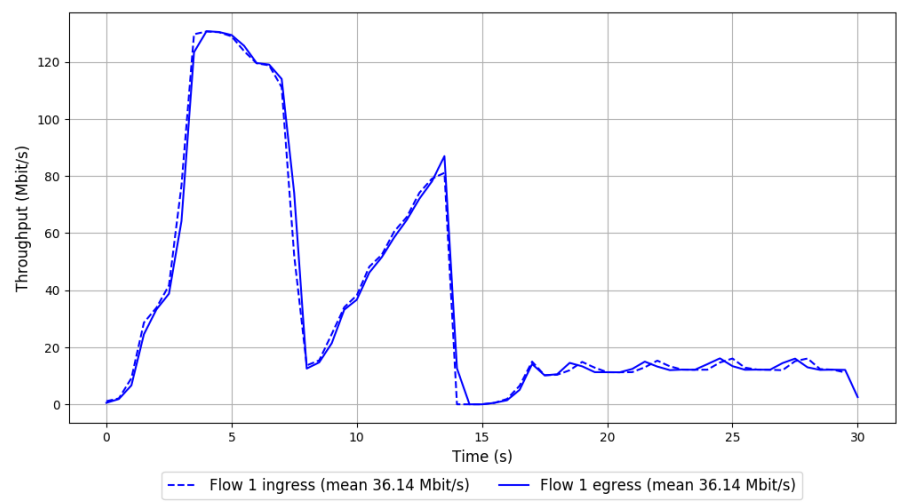
-- Flow 1:

Average throughput: 36.14 Mbit/s

95th percentile per-packet one-way delay: 113.782 ms

Loss rate: 0.00%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-02-16 01:00:53

End at: 2018-02-16 01:01:23

Below is generated by plot.py at 2018-02-16 05:08:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.19 Mbit/s

95th percentile per-packet one-way delay: 113.589 ms

Loss rate: 0.00%

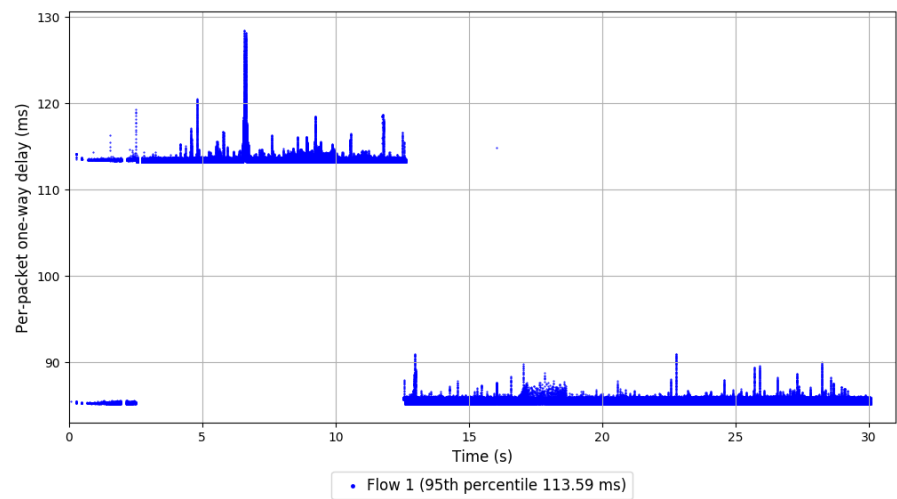
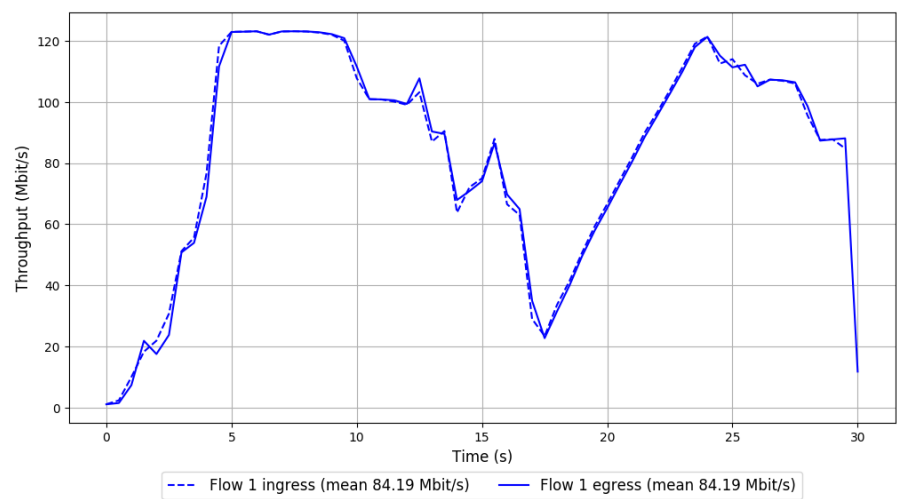
-- Flow 1:

Average throughput: 84.19 Mbit/s

95th percentile per-packet one-way delay: 113.589 ms

Loss rate: 0.00%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-02-16 01:16:26

End at: 2018-02-16 01:16:56

Below is generated by plot.py at 2018-02-16 05:08:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 16.07 Mbit/s

95th percentile per-packet one-way delay: 113.874 ms

Loss rate: 0.03%

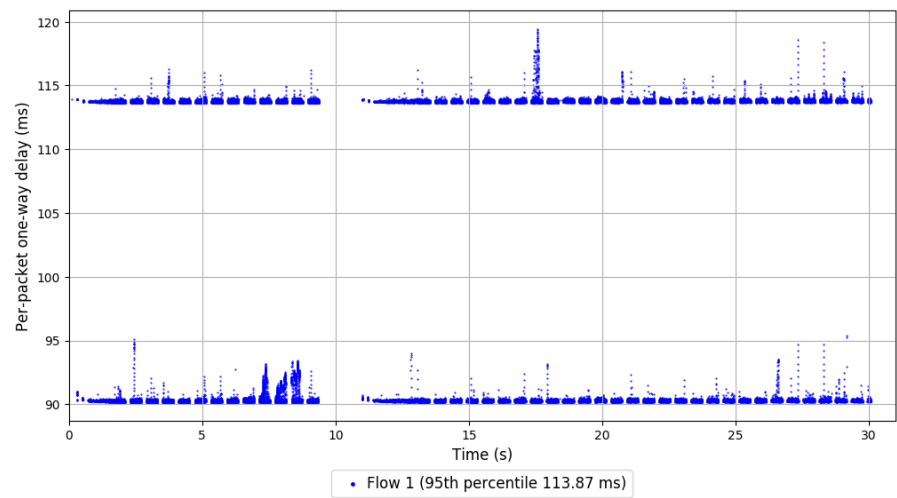
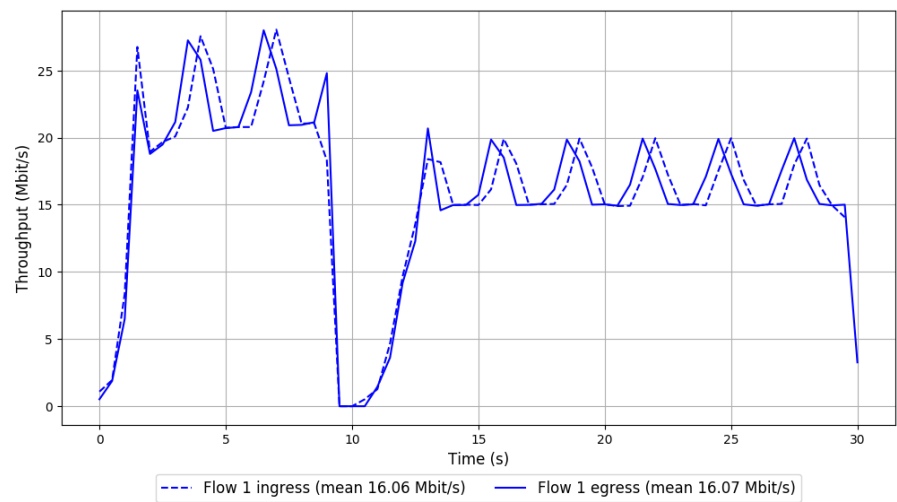
-- Flow 1:

Average throughput: 16.07 Mbit/s

95th percentile per-packet one-way delay: 113.874 ms

Loss rate: 0.03%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-02-16 01:31:38

End at: 2018-02-16 01:32:08

Below is generated by plot.py at 2018-02-16 05:09:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.10 Mbit/s

95th percentile per-packet one-way delay: 114.073 ms

Loss rate: 0.02%

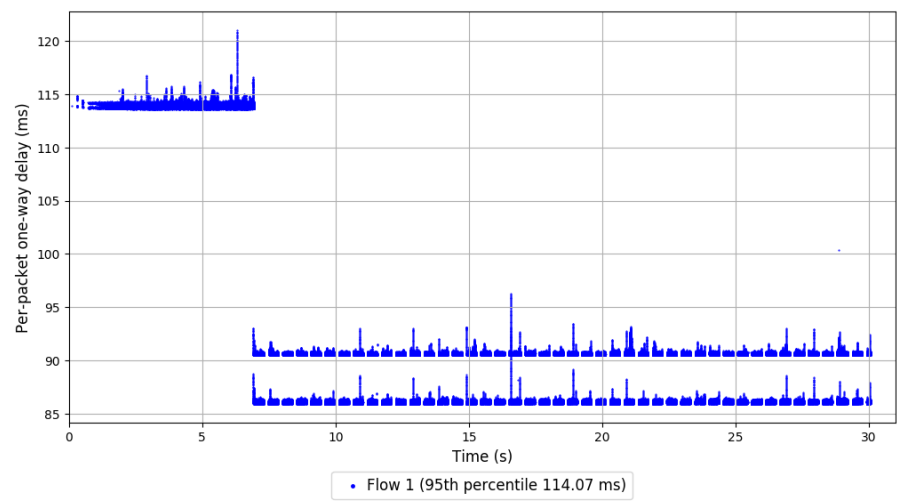
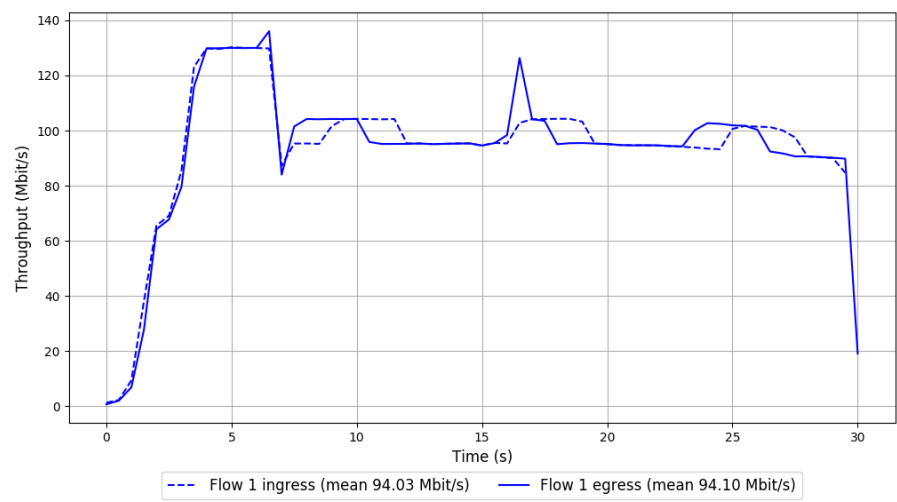
-- Flow 1:

Average throughput: 94.10 Mbit/s

95th percentile per-packet one-way delay: 114.073 ms

Loss rate: 0.02%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-02-16 01:46:43

End at: 2018-02-16 01:47:13

Below is generated by plot.py at 2018-02-16 05:09:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.21 Mbit/s

95th percentile per-packet one-way delay: 86.399 ms

Loss rate: 0.00%

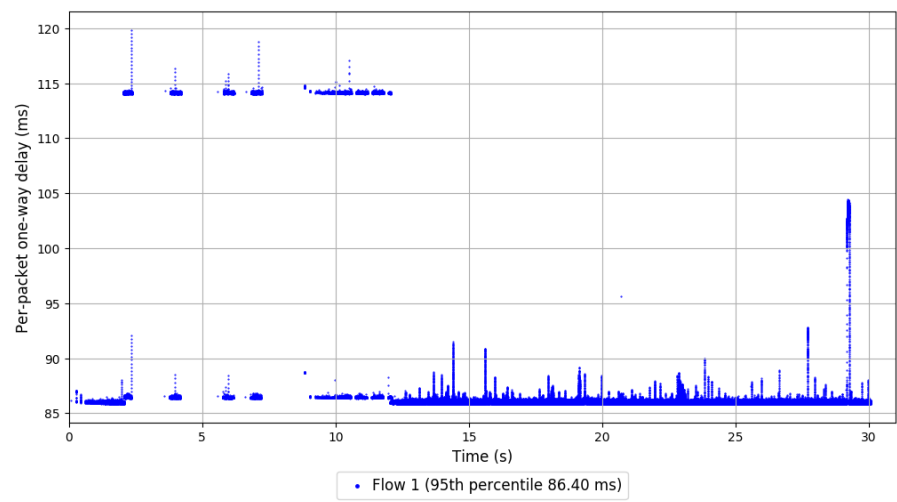
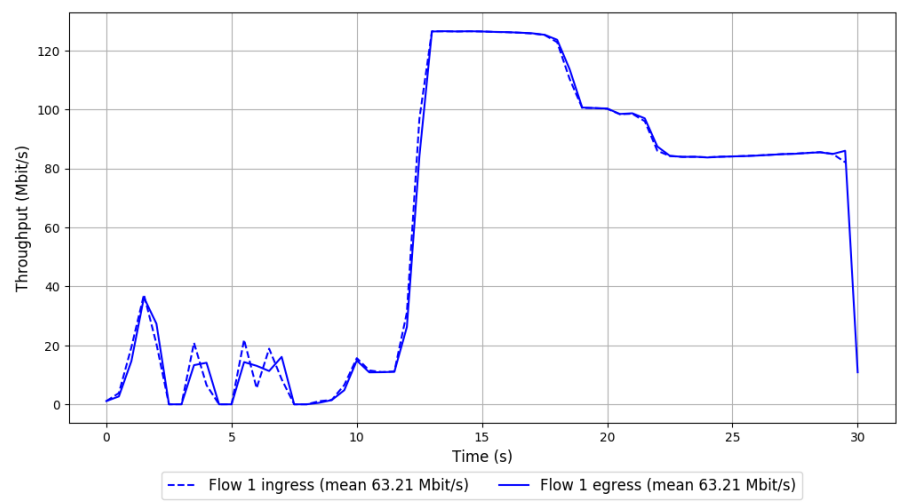
-- Flow 1:

Average throughput: 63.21 Mbit/s

95th percentile per-packet one-way delay: 86.399 ms

Loss rate: 0.00%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-02-16 02:01:32

End at: 2018-02-16 02:02:02

Below is generated by plot.py at 2018-02-16 05:09:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 17.68 Mbit/s

95th percentile per-packet one-way delay: 114.171 ms

Loss rate: 0.00%

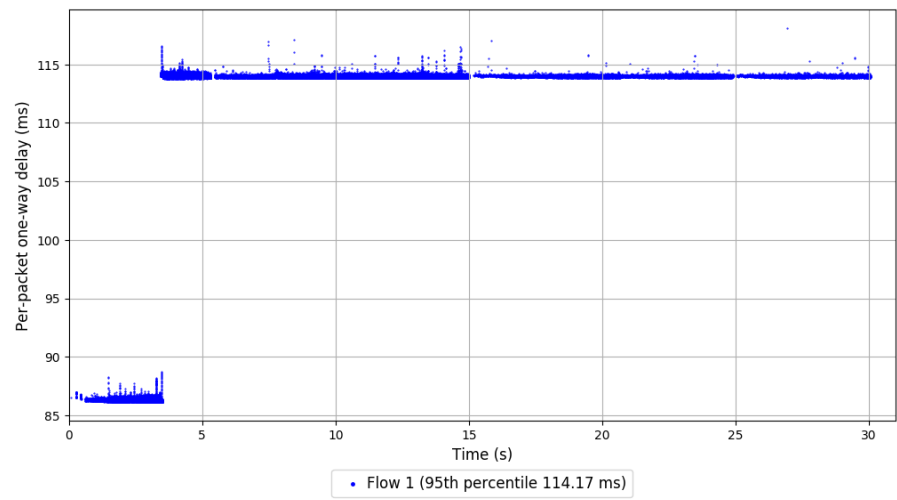
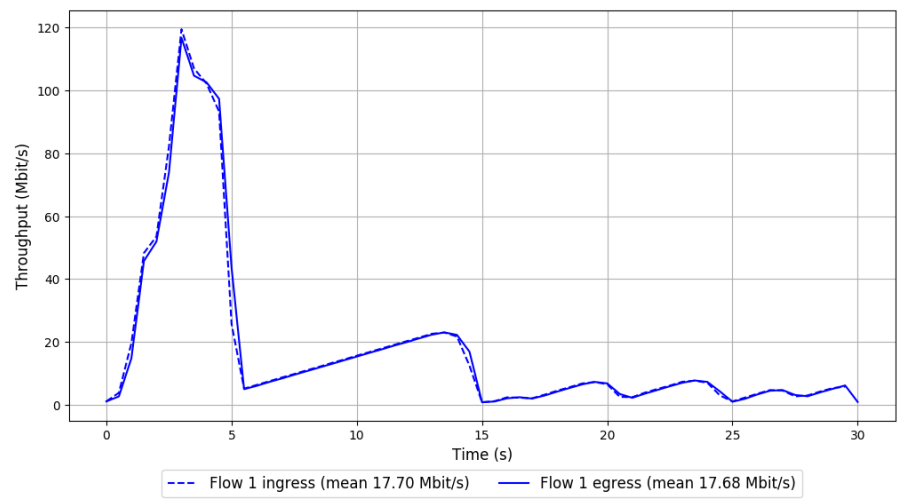
-- Flow 1:

Average throughput: 17.68 Mbit/s

95th percentile per-packet one-way delay: 114.171 ms

Loss rate: 0.00%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

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

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

Below is generated by plot.py at 2018-02-16 05:10:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.14 Mbit/s

95th percentile per-packet one-way delay: 114.318 ms

Loss rate: 0.01%

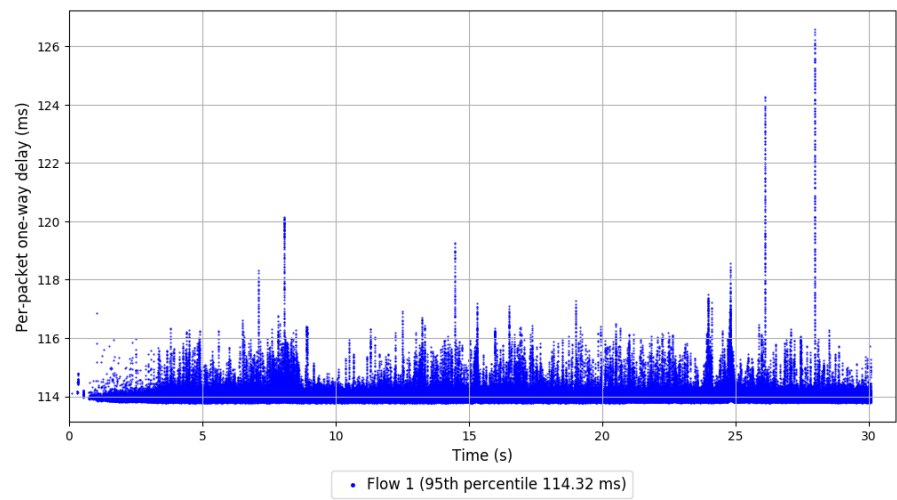
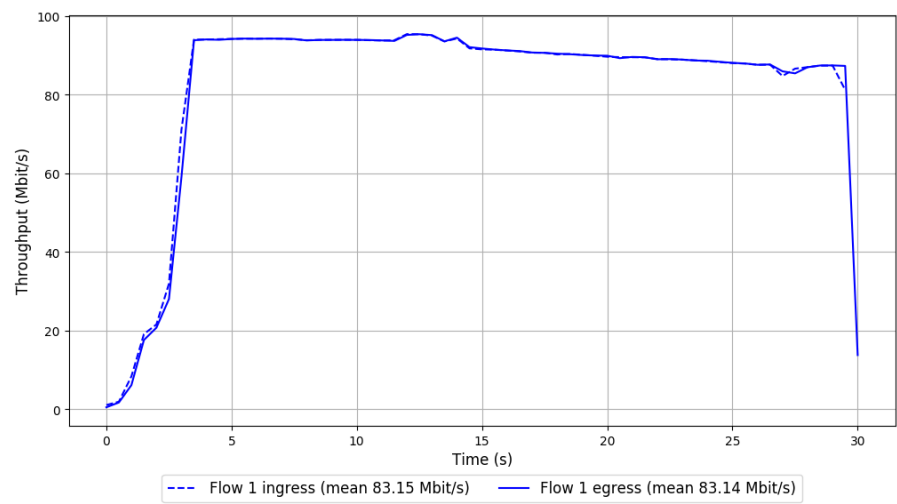
-- Flow 1:

Average throughput: 83.14 Mbit/s

95th percentile per-packet one-way delay: 114.318 ms

Loss rate: 0.01%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-02-16 02:31:52

End at: 2018-02-16 02:32:22

Below is generated by plot.py at 2018-02-16 05:10:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 33.85 Mbit/s

95th percentile per-packet one-way delay: 114.096 ms

Loss rate: 0.07%

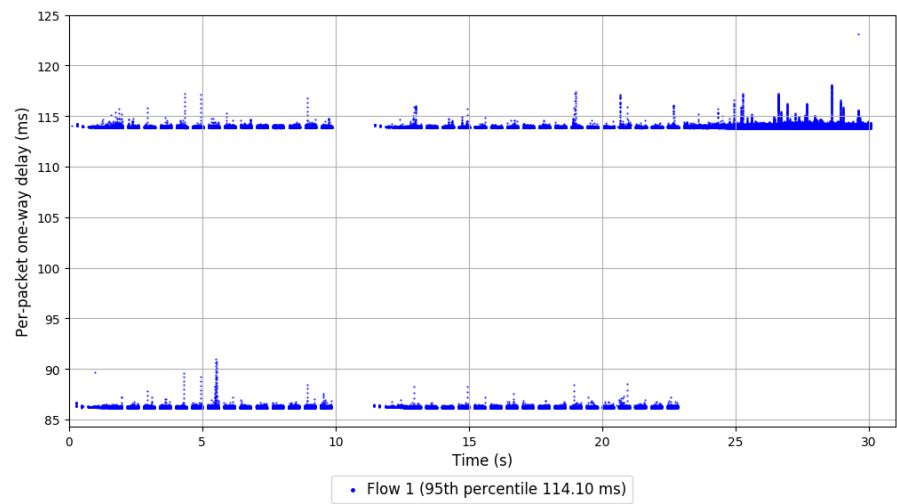
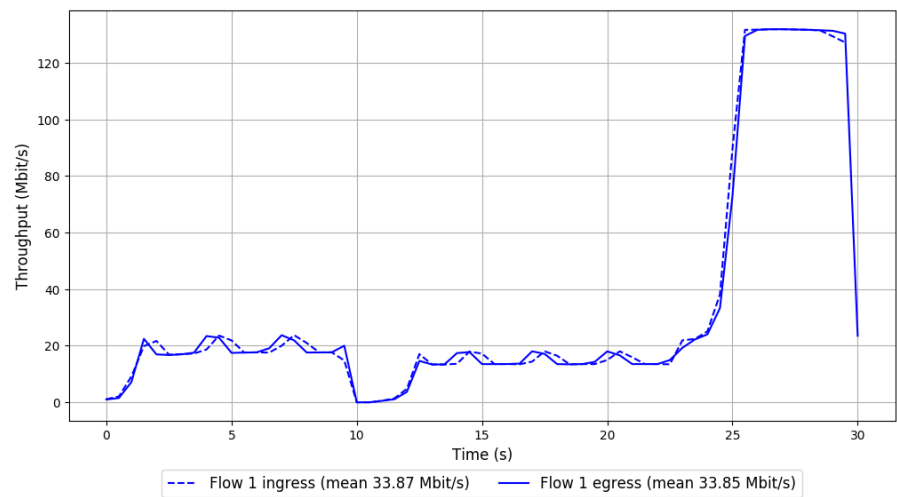
-- Flow 1:

Average throughput: 33.85 Mbit/s

95th percentile per-packet one-way delay: 114.096 ms

Loss rate: 0.07%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-02-16 02:47:00

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

Below is generated by plot.py at 2018-02-16 05:10:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 15.32 Mbit/s

95th percentile per-packet one-way delay: 114.039 ms

Loss rate: 0.00%

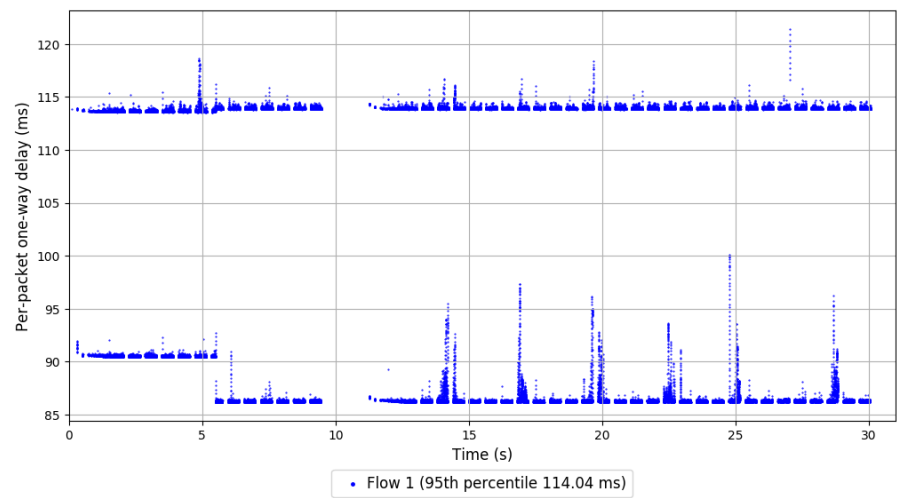
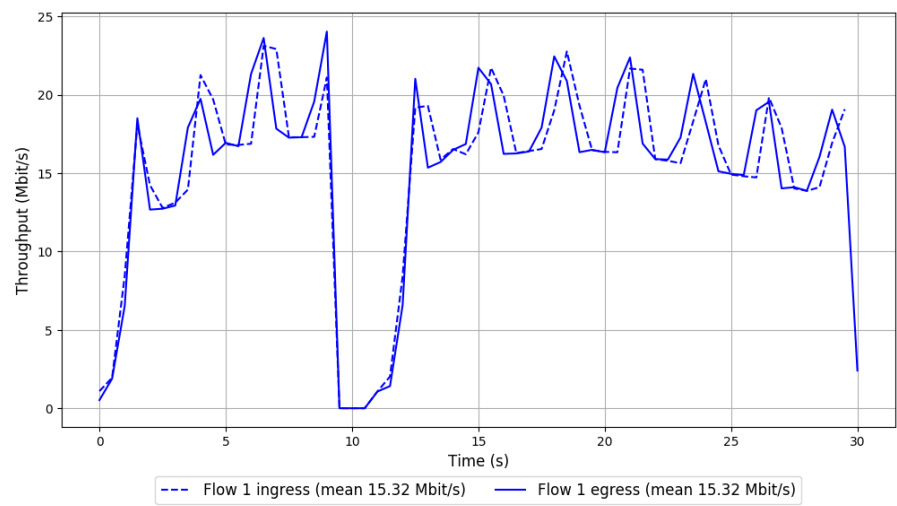
-- Flow 1:

Average throughput: 15.32 Mbit/s

95th percentile per-packet one-way delay: 114.039 ms

Loss rate: 0.00%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-02-16 03:02:10

End at: 2018-02-16 03:02:40

Below is generated by plot.py at 2018-02-16 05:25:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 419.55 Mbit/s

95th percentile per-packet one-way delay: 315.763 ms

Loss rate: 36.17%

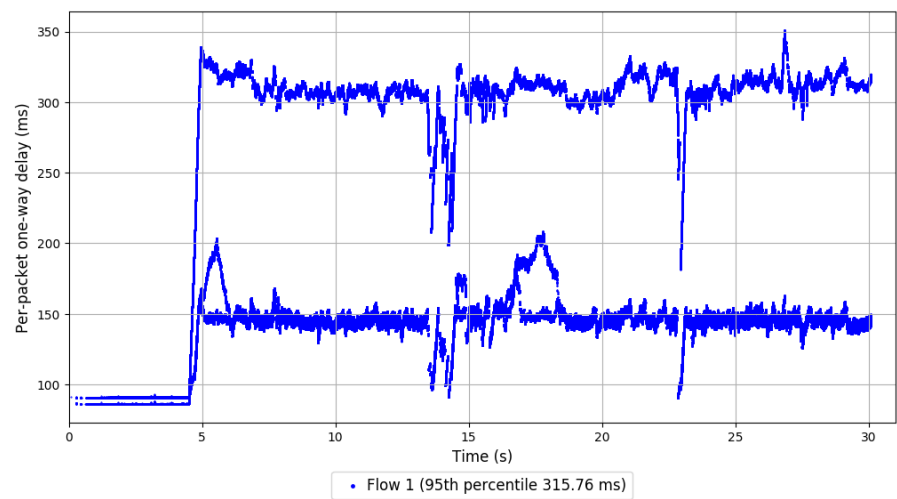
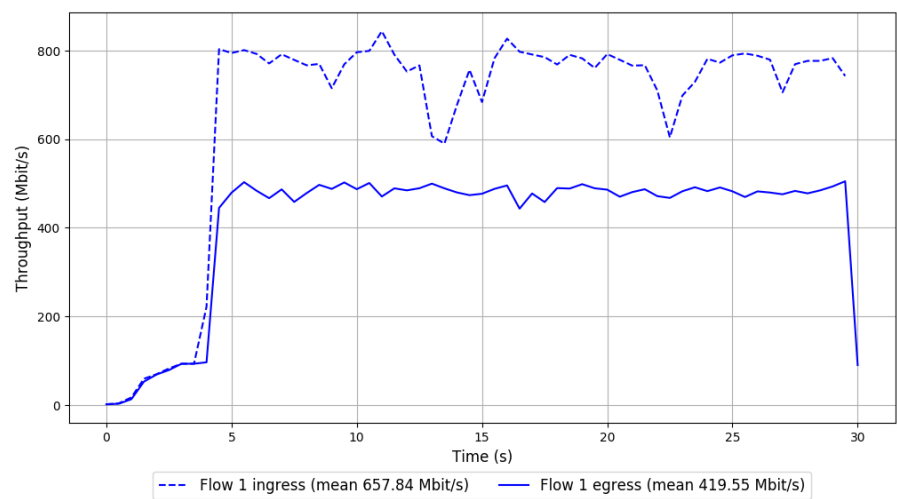
-- Flow 1:

Average throughput: 419.55 Mbit/s

95th percentile per-packet one-way delay: 315.763 ms

Loss rate: 36.17%

Run 10: Report of Copa — Data Link

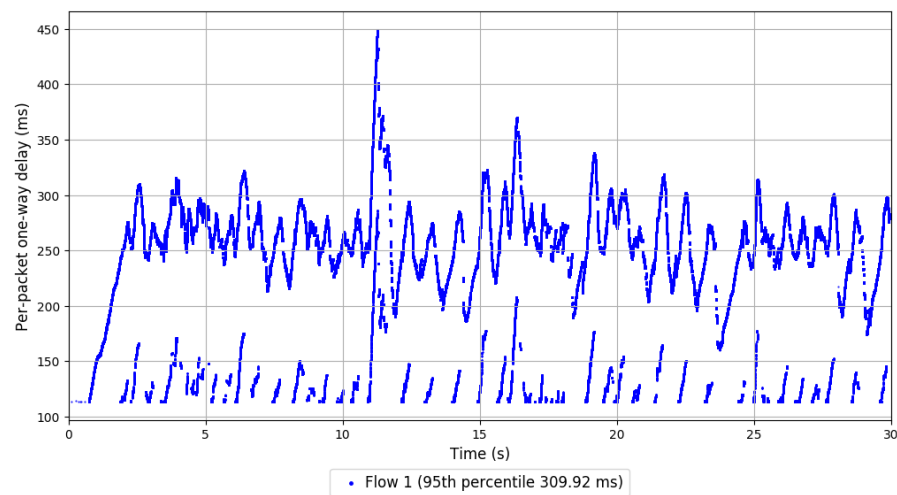
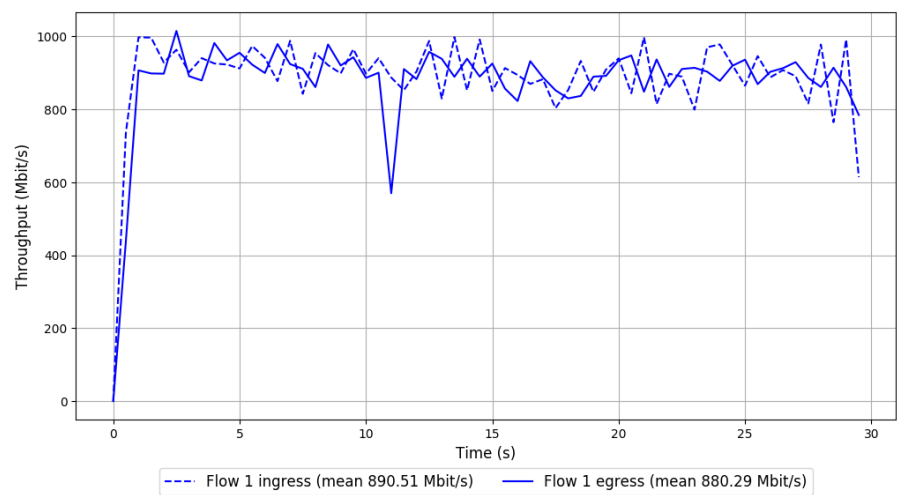


```
Run 1: Statistics of FillP

Start at: 2018-02-16 00:43:54
End at: 2018-02-16 00:44:24

# Below is generated by plot.py at 2018-02-16 05:25:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 880.29 Mbit/s
95th percentile per-packet one-way delay: 309.916 ms
Loss rate: 1.24%
-- Flow 1:
Average throughput: 880.29 Mbit/s
95th percentile per-packet one-way delay: 309.916 ms
Loss rate: 1.24%
```

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-02-16 00:58:50

End at: 2018-02-16 00:59:20

Below is generated by plot.py at 2018-02-16 05:25:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 895.33 Mbit/s

95th percentile per-packet one-way delay: 337.822 ms

Loss rate: 2.92%

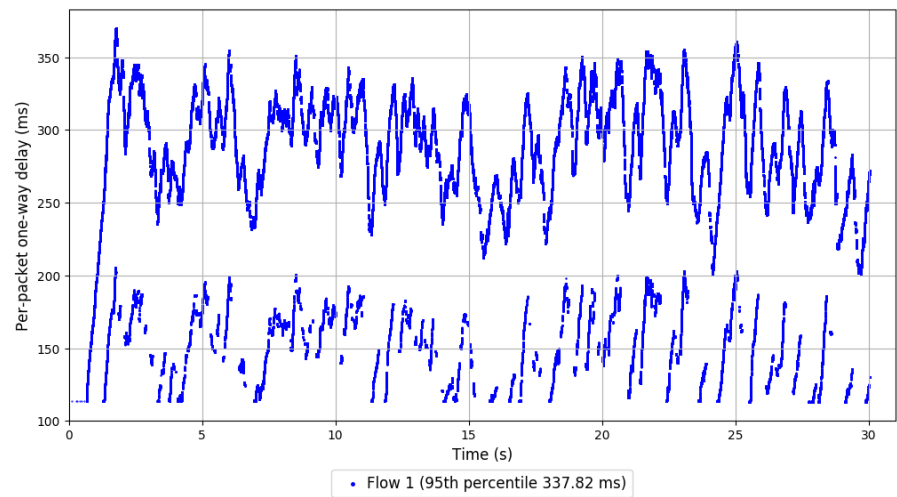
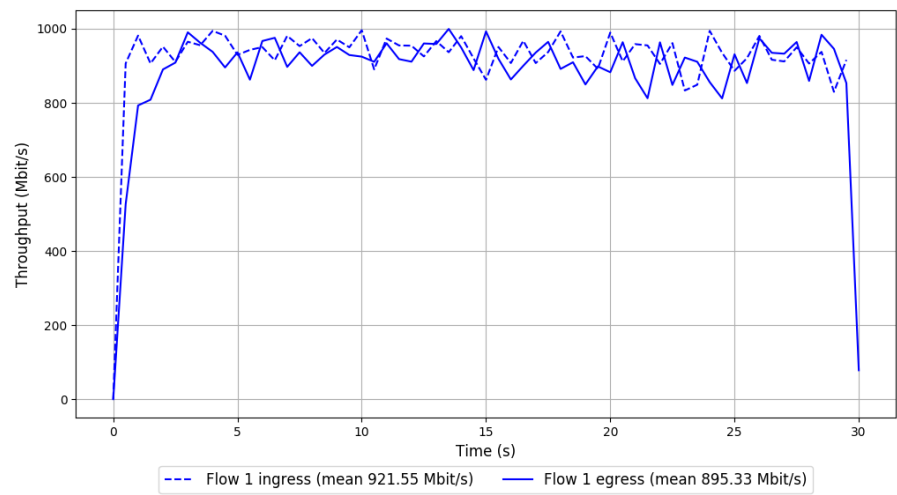
-- Flow 1:

Average throughput: 895.33 Mbit/s

95th percentile per-packet one-way delay: 337.822 ms

Loss rate: 2.92%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-02-16 01:14:25

End at: 2018-02-16 01:14:55

Below is generated by plot.py at 2018-02-16 05:25:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 851.68 Mbit/s

95th percentile per-packet one-way delay: 310.136 ms

Loss rate: 3.40%

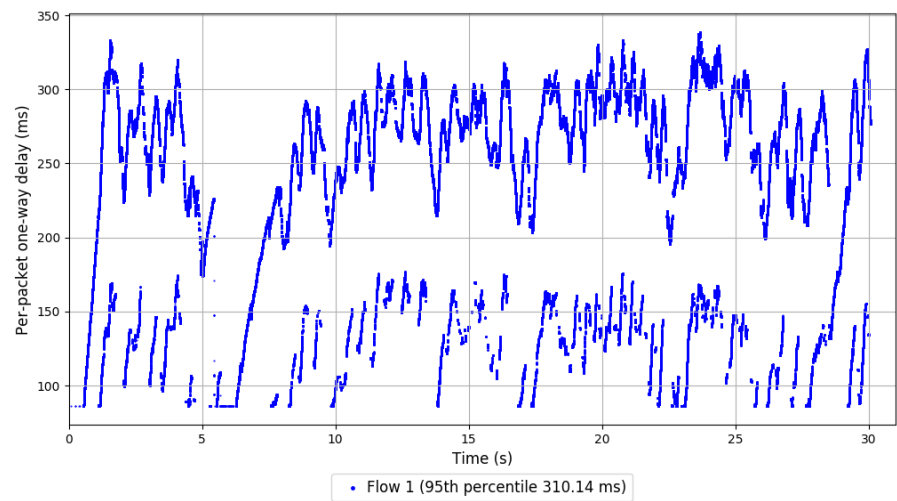
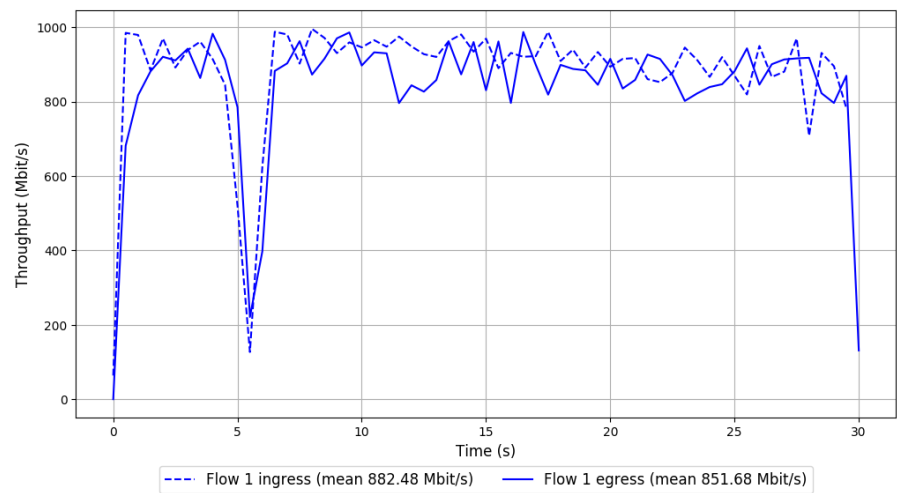
-- Flow 1:

Average throughput: 851.68 Mbit/s

95th percentile per-packet one-way delay: 310.136 ms

Loss rate: 3.40%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-02-16 01:29:40

End at: 2018-02-16 01:30:10

Below is generated by plot.py at 2018-02-16 05:25:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 823.96 Mbit/s

95th percentile per-packet one-way delay: 326.484 ms

Loss rate: 4.68%

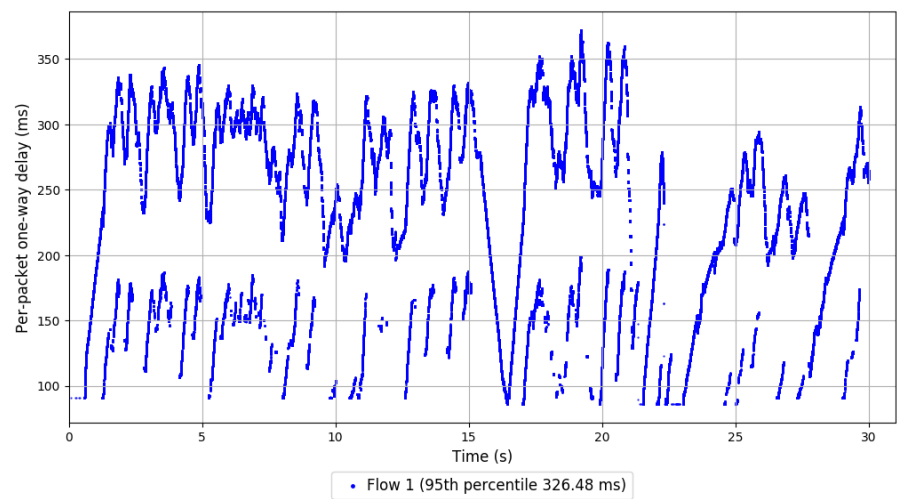
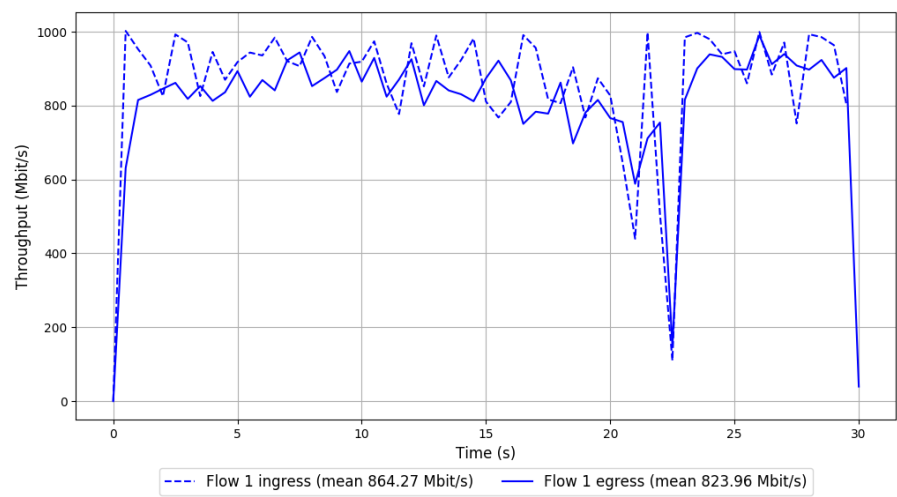
-- Flow 1:

Average throughput: 823.96 Mbit/s

95th percentile per-packet one-way delay: 326.484 ms

Loss rate: 4.68%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-02-16 01:44:43

End at: 2018-02-16 01:45:13

Below is generated by plot.py at 2018-02-16 05:25:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 854.59 Mbit/s

95th percentile per-packet one-way delay: 353.318 ms

Loss rate: 7.11%

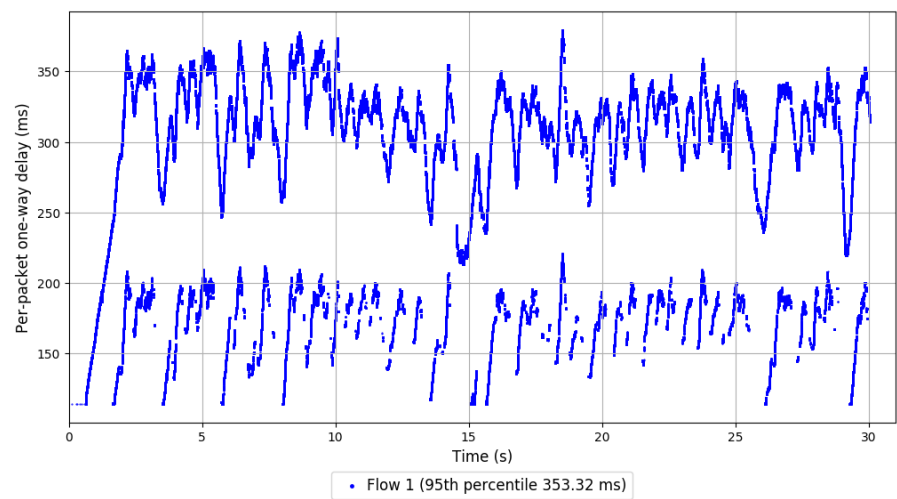
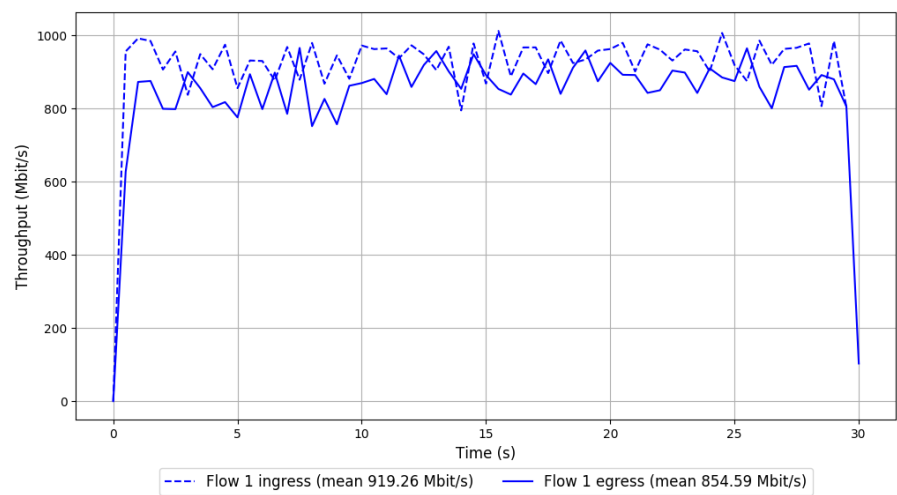
-- Flow 1:

Average throughput: 854.59 Mbit/s

95th percentile per-packet one-way delay: 353.318 ms

Loss rate: 7.11%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-02-16 01:59:51

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

Below is generated by plot.py at 2018-02-16 05:25:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 393.00 Mbit/s

95th percentile per-packet one-way delay: 324.296 ms

Loss rate: 7.72%

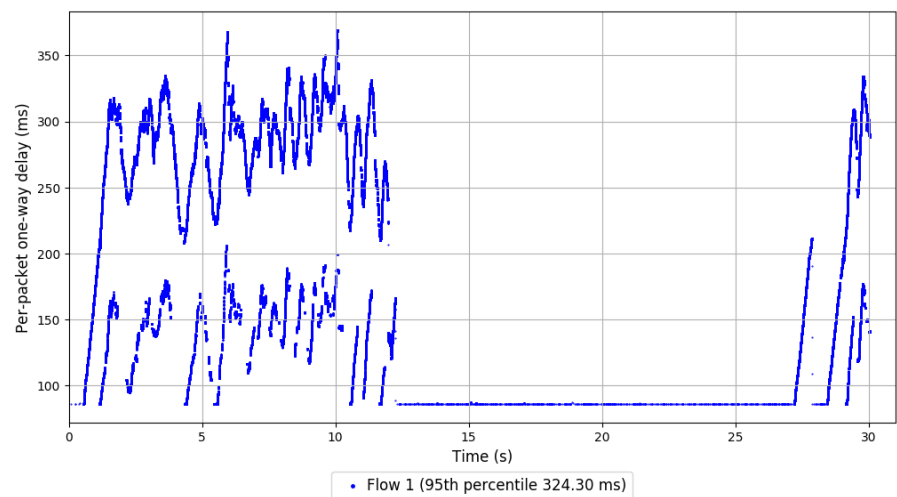
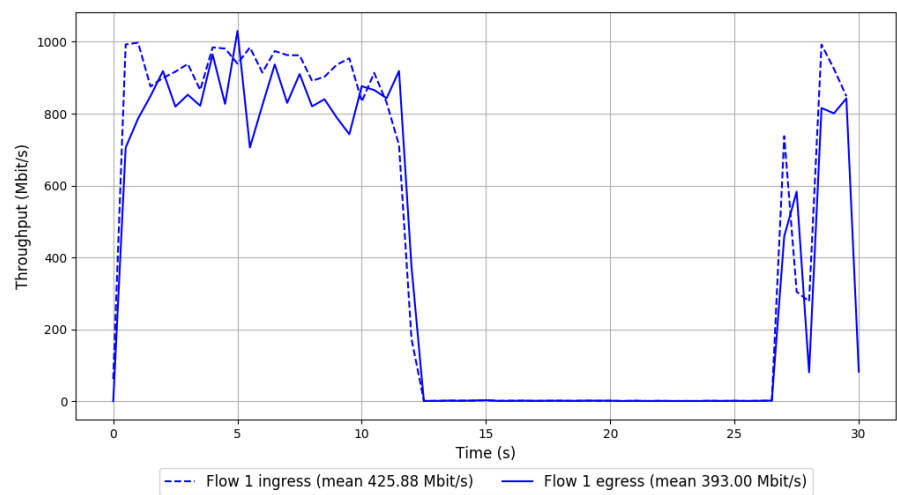
-- Flow 1:

Average throughput: 393.00 Mbit/s

95th percentile per-packet one-way delay: 324.296 ms

Loss rate: 7.72%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-02-16 02:14:26

End at: 2018-02-16 02:14:56

Below is generated by plot.py at 2018-02-16 05:25:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 756.73 Mbit/s

95th percentile per-packet one-way delay: 359.681 ms

Loss rate: 6.25%

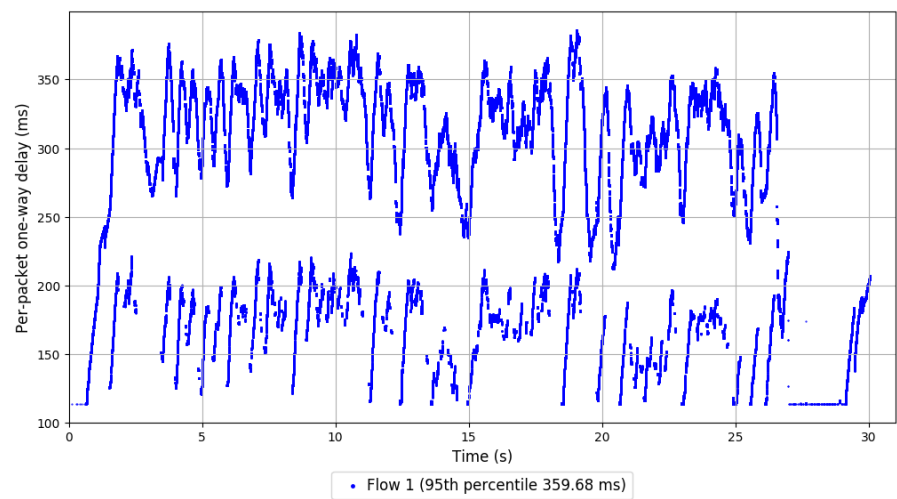
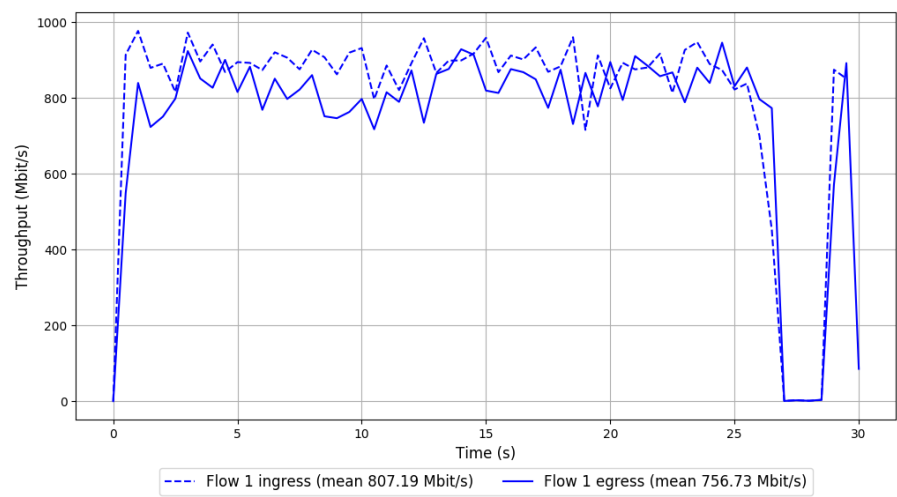
-- Flow 1:

Average throughput: 756.73 Mbit/s

95th percentile per-packet one-way delay: 359.681 ms

Loss rate: 6.25%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-02-16 02:29:53

End at: 2018-02-16 02:30:23

Below is generated by plot.py at 2018-02-16 05:35:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 842.35 Mbit/s

95th percentile per-packet one-way delay: 354.430 ms

Loss rate: 8.12%

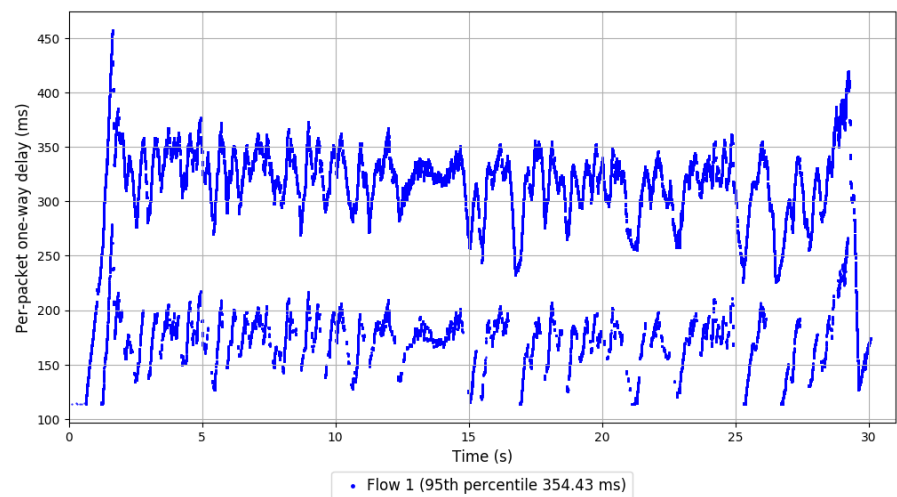
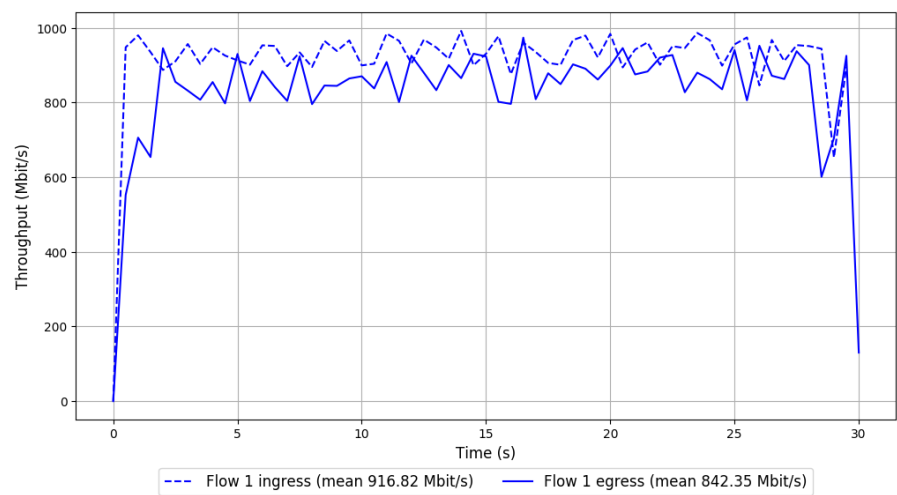
-- Flow 1:

Average throughput: 842.35 Mbit/s

95th percentile per-packet one-way delay: 354.430 ms

Loss rate: 8.12%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-02-16 02:45:14

End at: 2018-02-16 02:45:44

Below is generated by plot.py at 2018-02-16 05:35:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 460.00 Mbit/s

95th percentile per-packet one-way delay: 356.457 ms

Loss rate: 6.39%

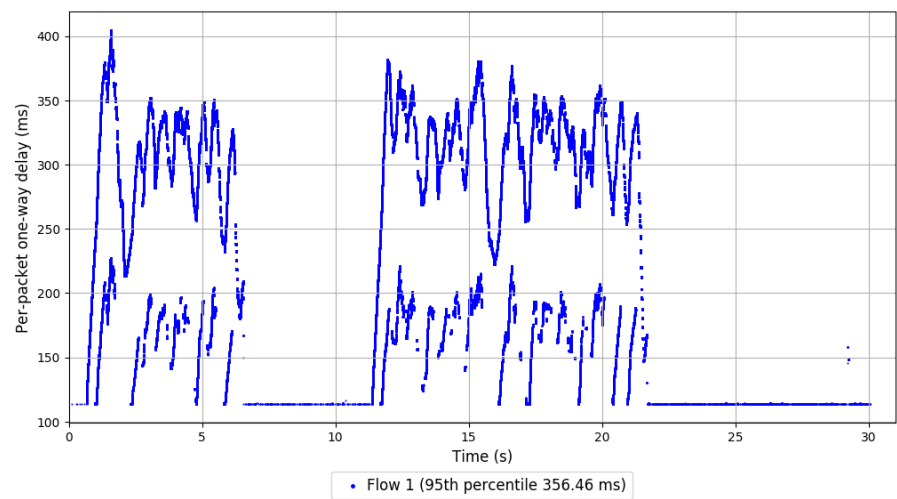
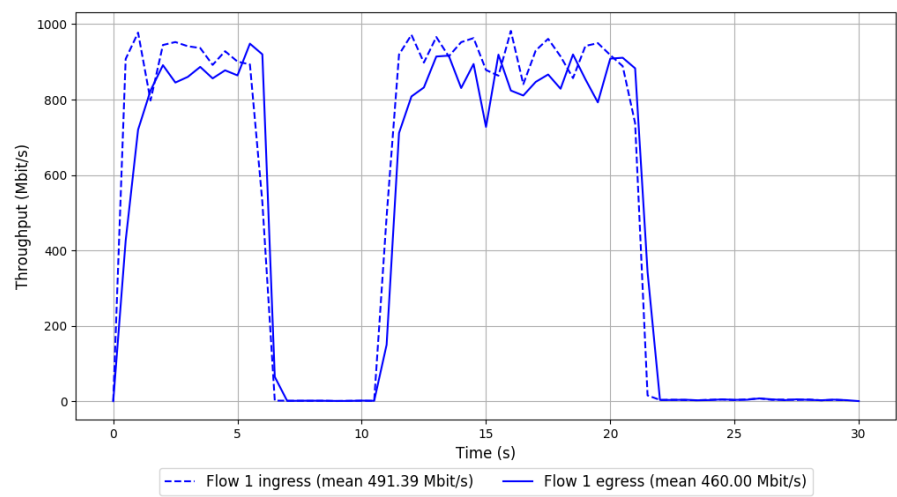
-- Flow 1:

Average throughput: 460.00 Mbit/s

95th percentile per-packet one-way delay: 356.457 ms

Loss rate: 6.39%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-02-16 03:00:07

End at: 2018-02-16 03:00:38

Below is generated by plot.py at 2018-02-16 05:42:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 874.86 Mbit/s

95th percentile per-packet one-way delay: 346.549 ms

Loss rate: 3.29%

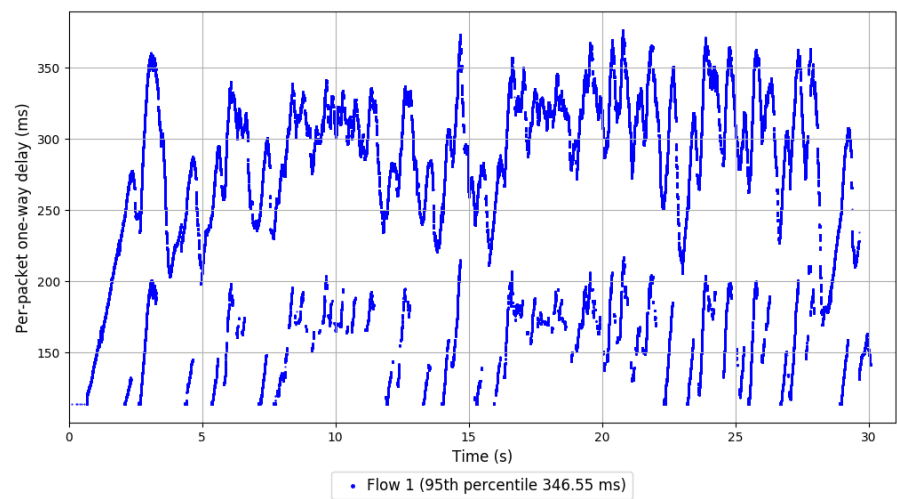
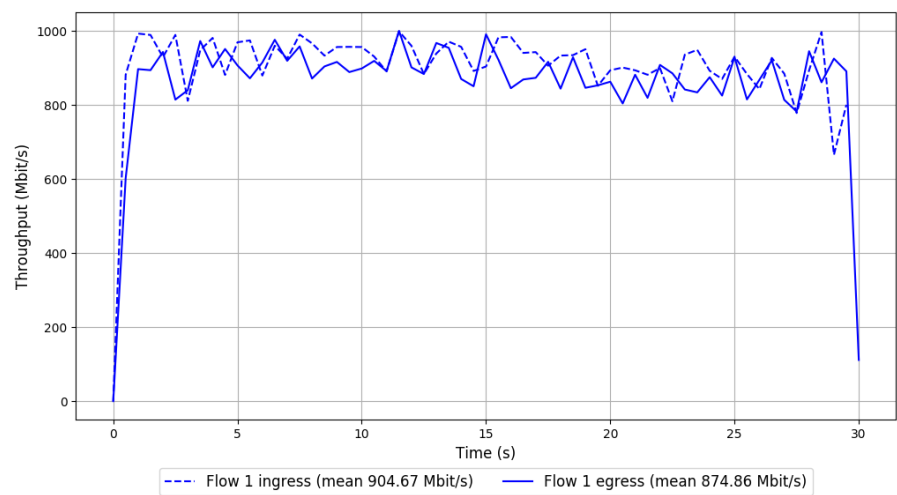
-- Flow 1:

Average throughput: 874.86 Mbit/s

95th percentile per-packet one-way delay: 346.549 ms

Loss rate: 3.29%

Run 10: Report of FillP — Data Link

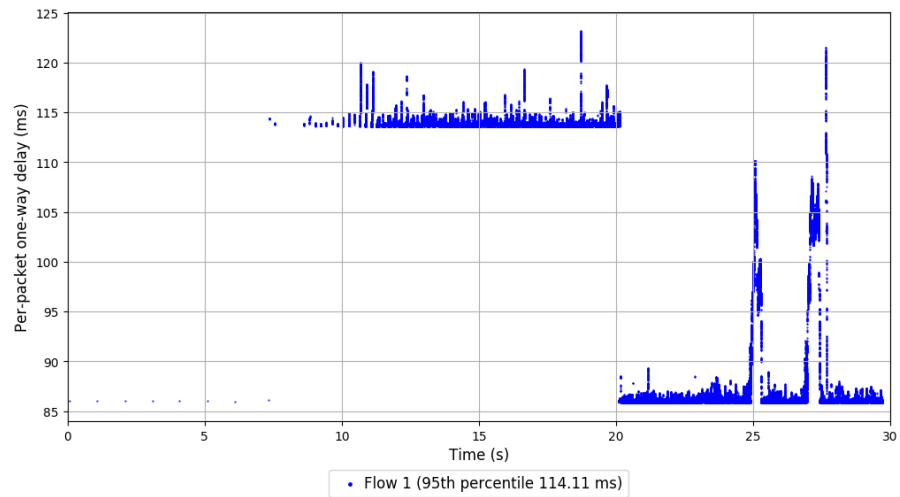
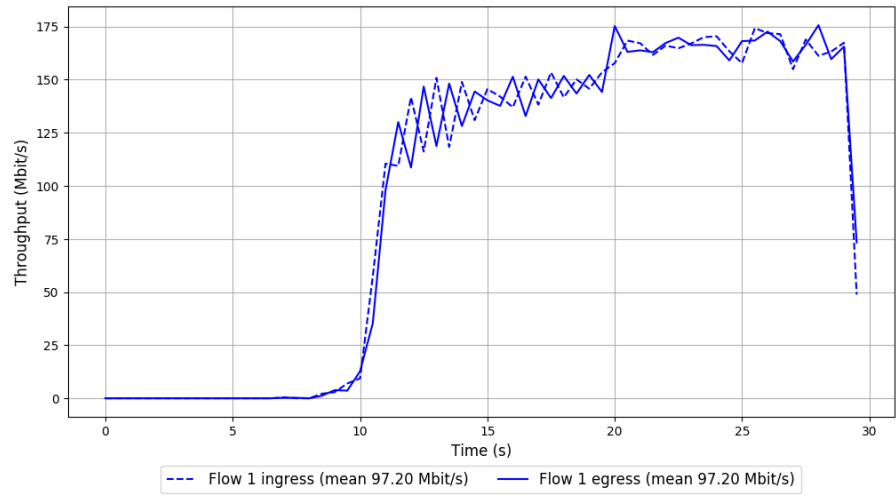


```
Run 1: Statistics of Indigo-1-32

Start at: 2018-02-16 00:42:25
End at: 2018-02-16 00:42:55

# Below is generated by plot.py at 2018-02-16 05:42:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.20 Mbit/s
95th percentile per-packet one-way delay: 114.111 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 97.20 Mbit/s
95th percentile per-packet one-way delay: 114.111 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 00:57:17

End at: 2018-02-16 00:57:47

Below is generated by plot.py at 2018-02-16 05:42:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 146.08 Mbit/s

95th percentile per-packet one-way delay: 113.658 ms

Loss rate: 0.00%

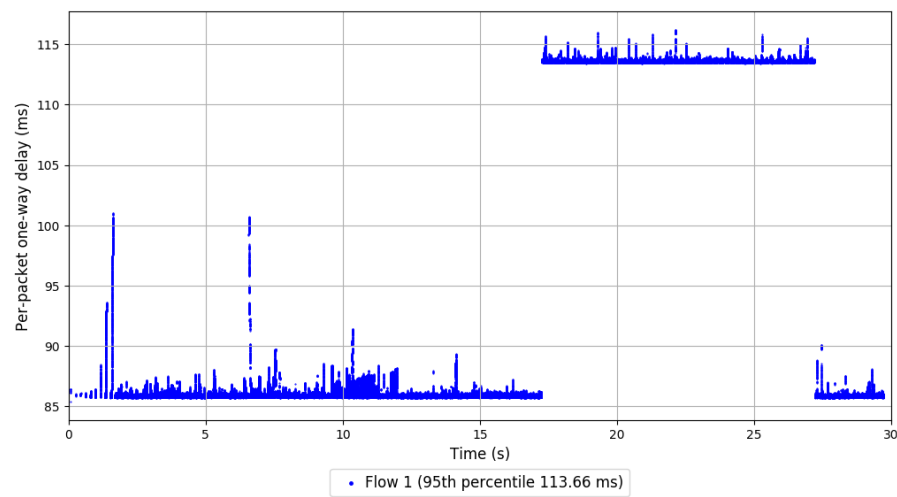
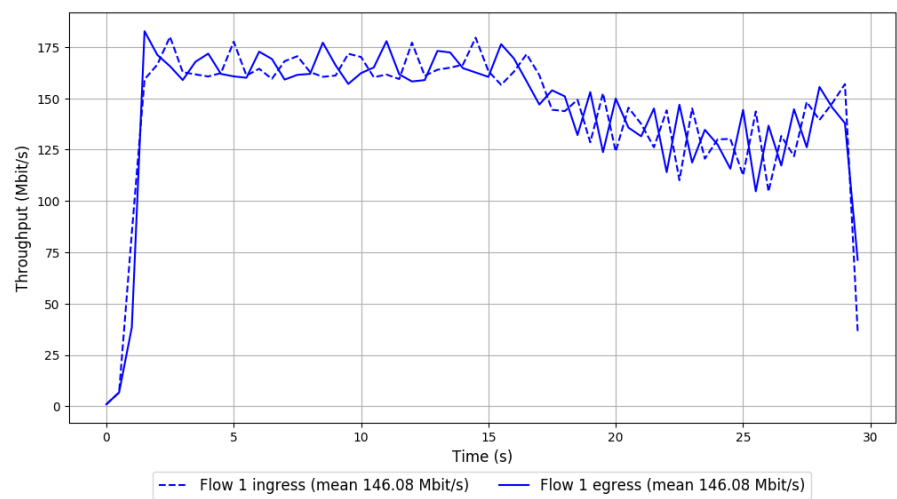
-- Flow 1:

Average throughput: 146.08 Mbit/s

95th percentile per-packet one-way delay: 113.658 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 01:12:44

End at: 2018-02-16 01:13:14

Below is generated by plot.py at 2018-02-16 05:42:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 201.30 Mbit/s

95th percentile per-packet one-way delay: 90.259 ms

Loss rate: 0.00%

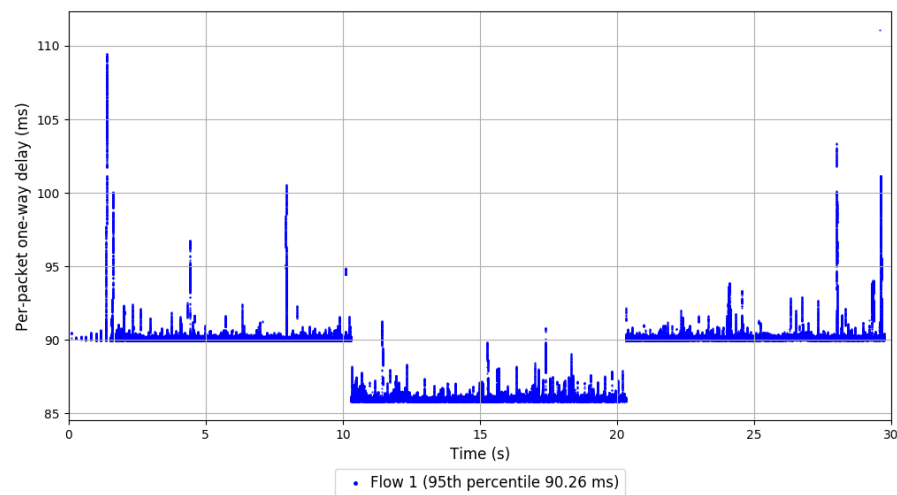
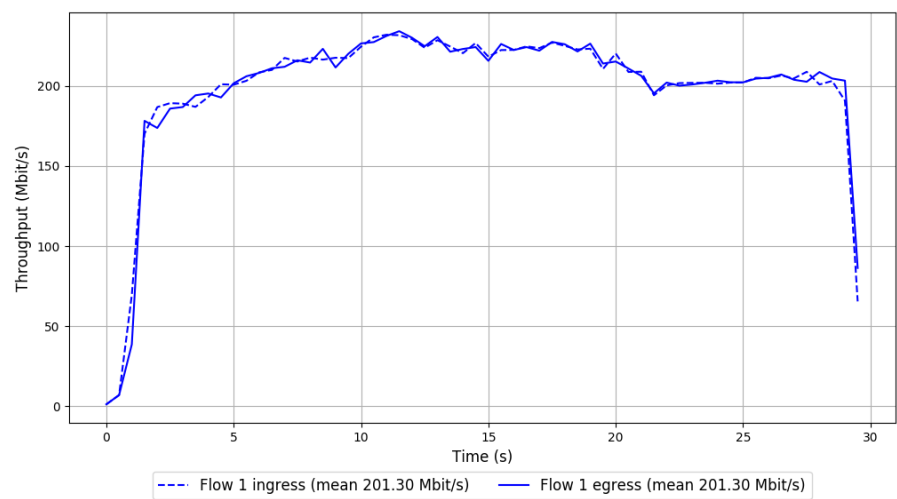
-- Flow 1:

Average throughput: 201.30 Mbit/s

95th percentile per-packet one-way delay: 90.259 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 01:28:00

End at: 2018-02-16 01:28:30

Below is generated by plot.py at 2018-02-16 05:42:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 203.50 Mbit/s

95th percentile per-packet one-way delay: 90.895 ms

Loss rate: 0.00%

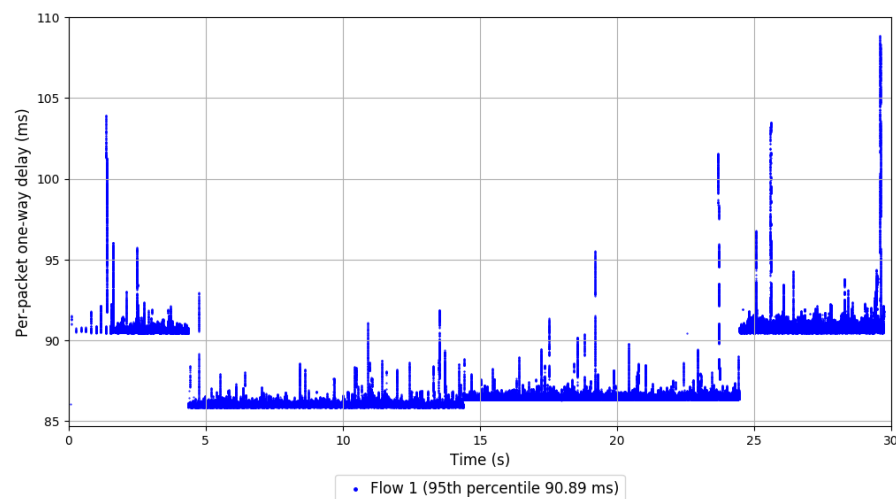
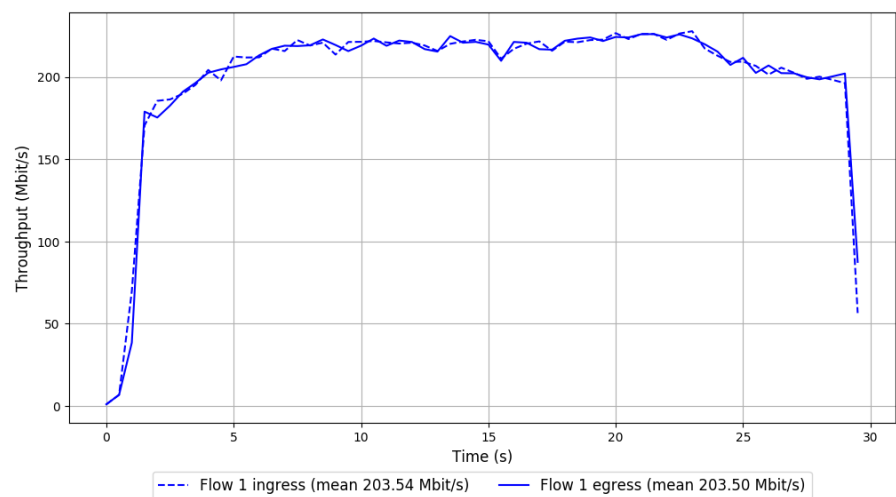
-- Flow 1:

Average throughput: 203.50 Mbit/s

95th percentile per-packet one-way delay: 90.895 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 01:43:05

End at: 2018-02-16 01:43:35

Below is generated by plot.py at 2018-02-16 05:42:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 198.85 Mbit/s

95th percentile per-packet one-way delay: 114.459 ms

Loss rate: 0.11%

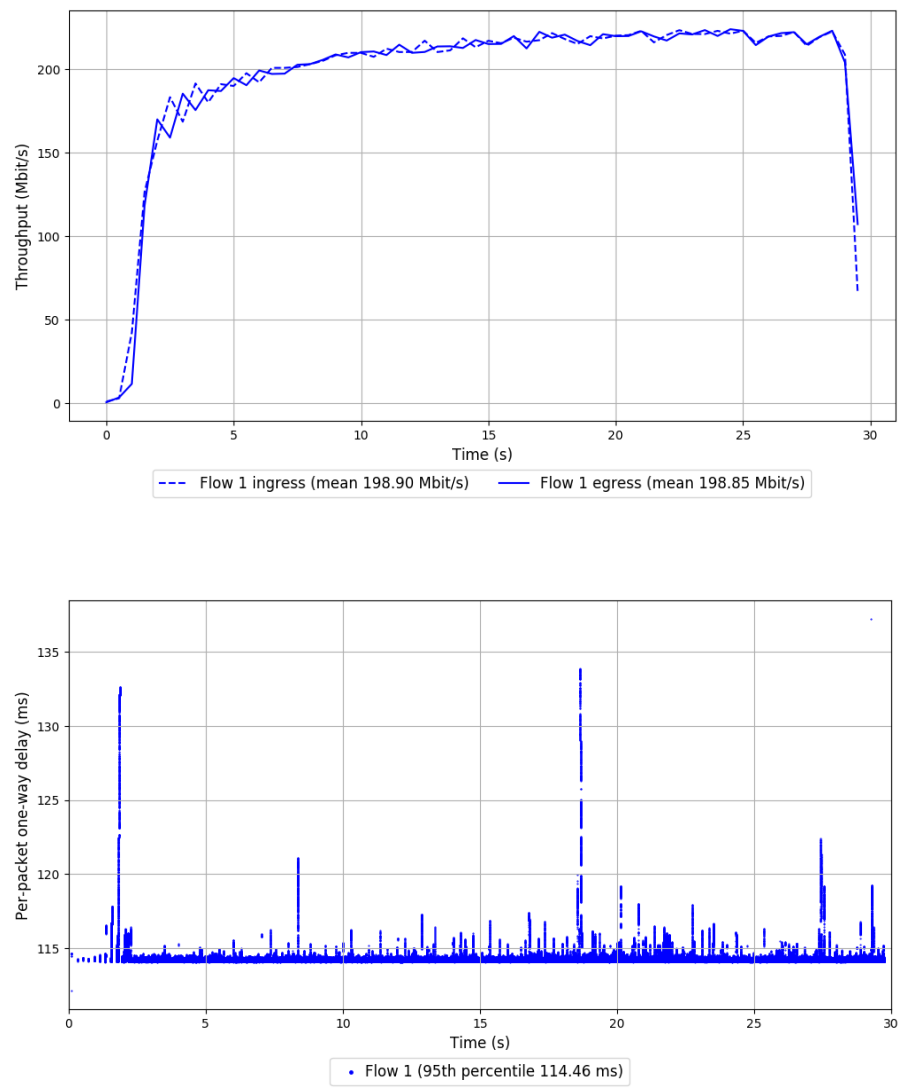
-- Flow 1:

Average throughput: 198.85 Mbit/s

95th percentile per-packet one-way delay: 114.459 ms

Loss rate: 0.11%

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



Run 6: Statistics of Indigo-1-32

Start at: 2018-02-16 01:58:24

End at: 2018-02-16 01:58:54

Below is generated by plot.py at 2018-02-16 05:42:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 9.76 Mbit/s

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

Loss rate: 0.00%

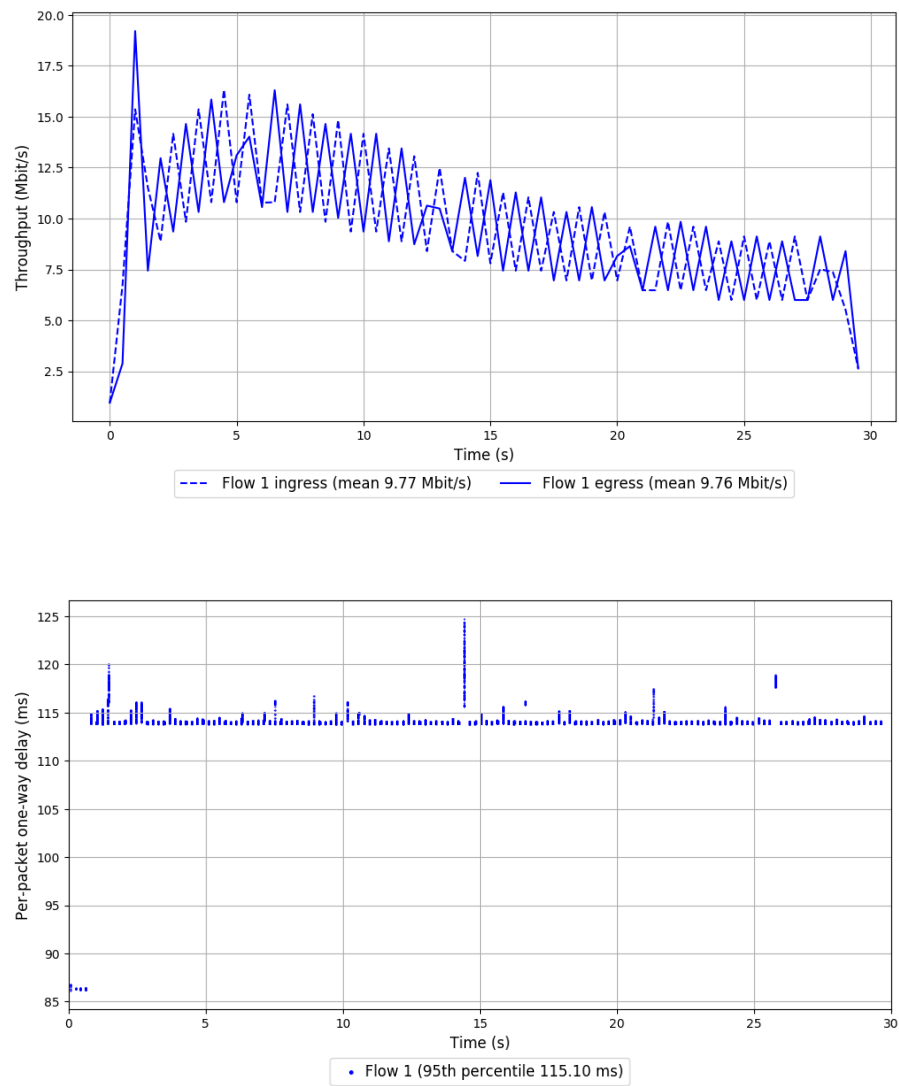
-- Flow 1:

Average throughput: 9.76 Mbit/s

95th percentile per-packet one-way delay: 115.097 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 02:12:53

End at: 2018-02-16 02:13:23

Below is generated by plot.py at 2018-02-16 05:42:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 123.40 Mbit/s

95th percentile per-packet one-way delay: 114.416 ms

Loss rate: 0.00%

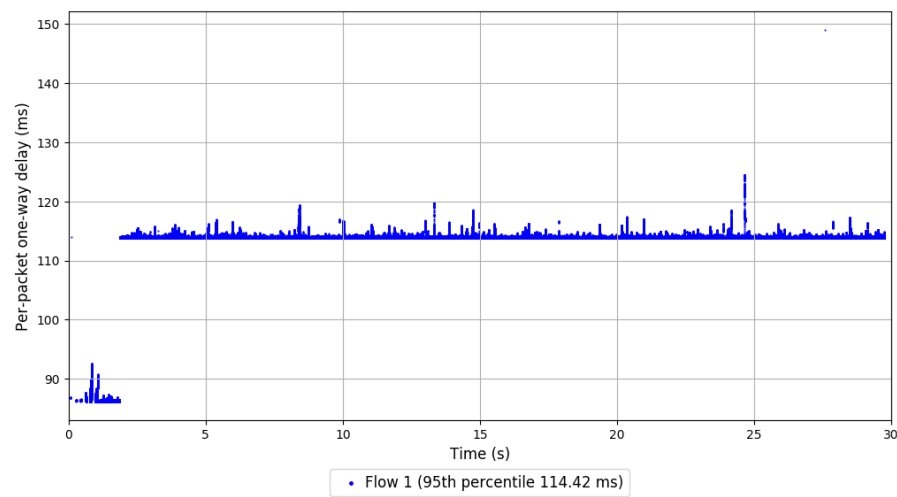
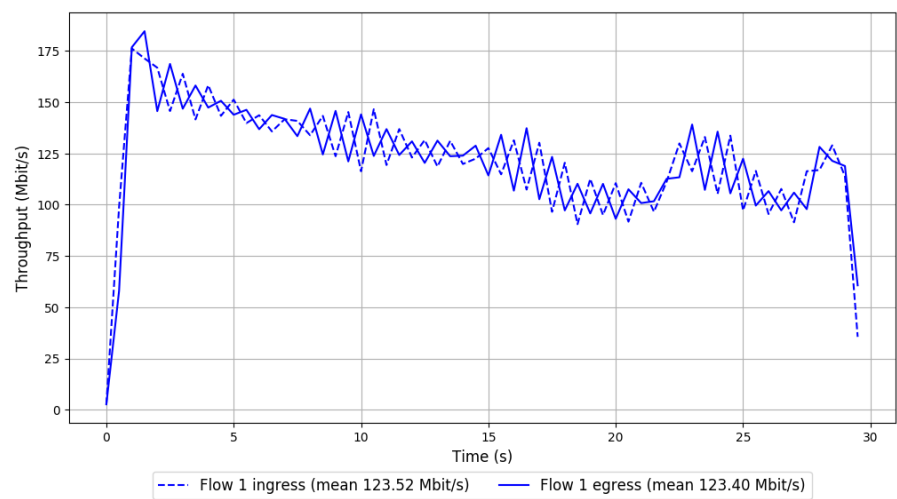
-- Flow 1:

Average throughput: 123.40 Mbit/s

95th percentile per-packet one-way delay: 114.416 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 02:28:18

End at: 2018-02-16 02:28:48

Below is generated by plot.py at 2018-02-16 05:42:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 152.77 Mbit/s

95th percentile per-packet one-way delay: 114.251 ms

Loss rate: 0.00%

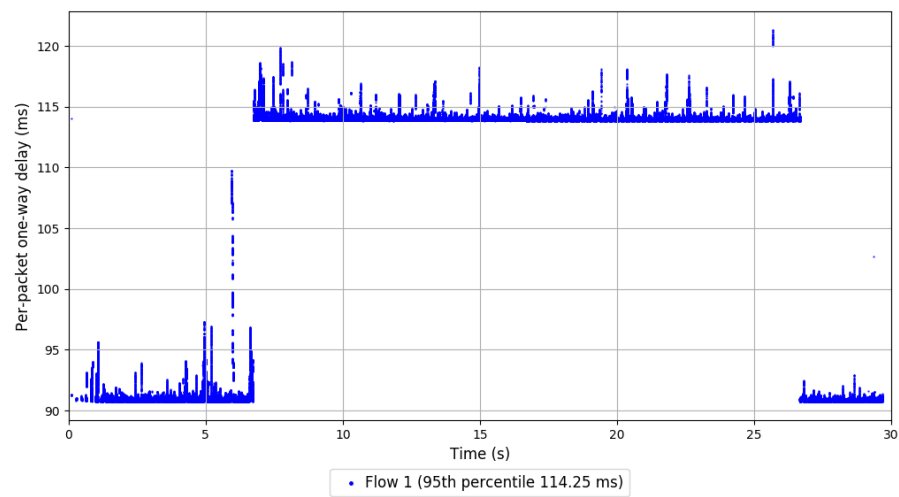
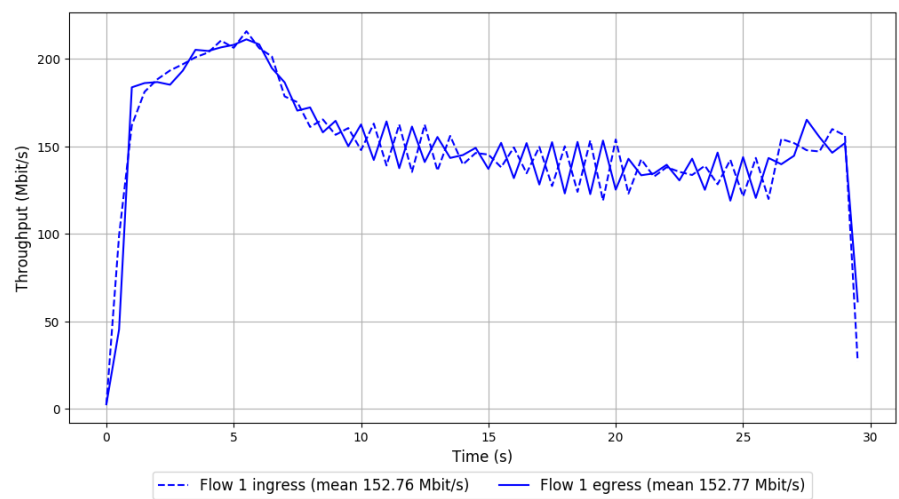
-- Flow 1:

Average throughput: 152.77 Mbit/s

95th percentile per-packet one-way delay: 114.251 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 02:43:33

End at: 2018-02-16 02:44:03

Below is generated by plot.py at 2018-02-16 05:42:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 202.36 Mbit/s

95th percentile per-packet one-way delay: 90.668 ms

Loss rate: 0.00%

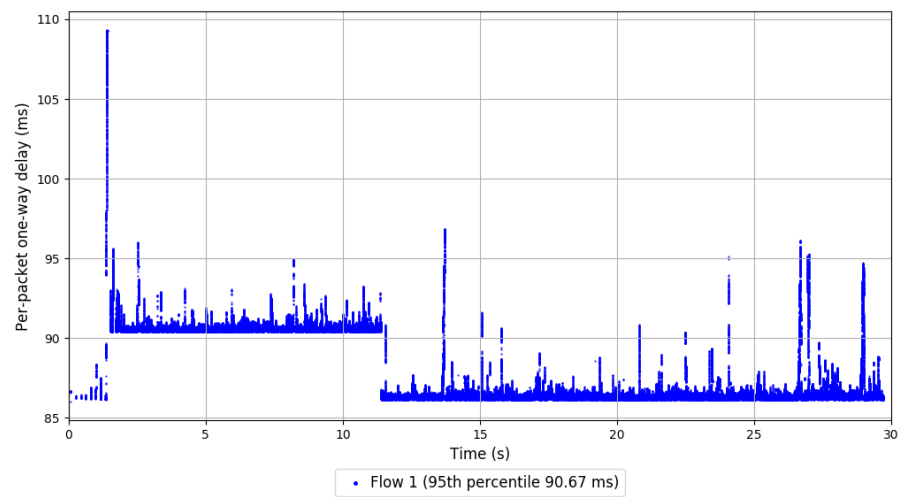
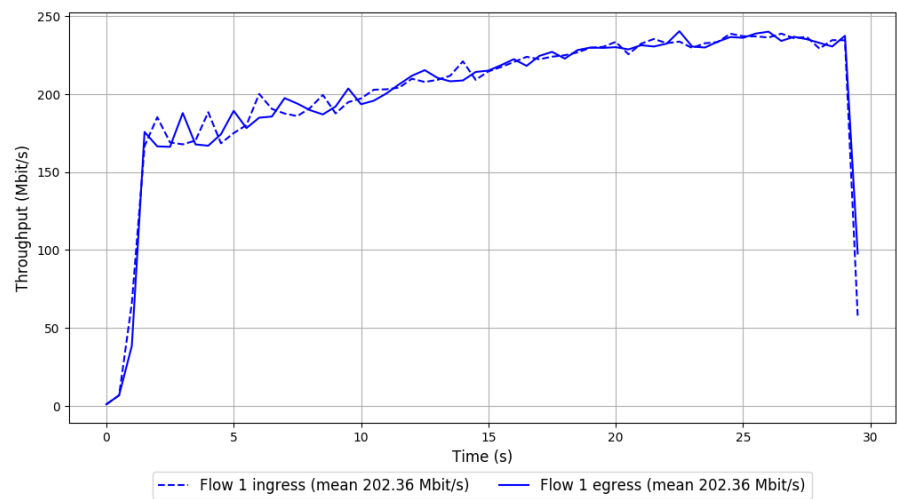
-- Flow 1:

Average throughput: 202.36 Mbit/s

95th percentile per-packet one-way delay: 90.668 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 02:58:32

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

Below is generated by plot.py at 2018-02-16 05:42:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 190.51 Mbit/s

95th percentile per-packet one-way delay: 90.651 ms

Loss rate: 0.00%

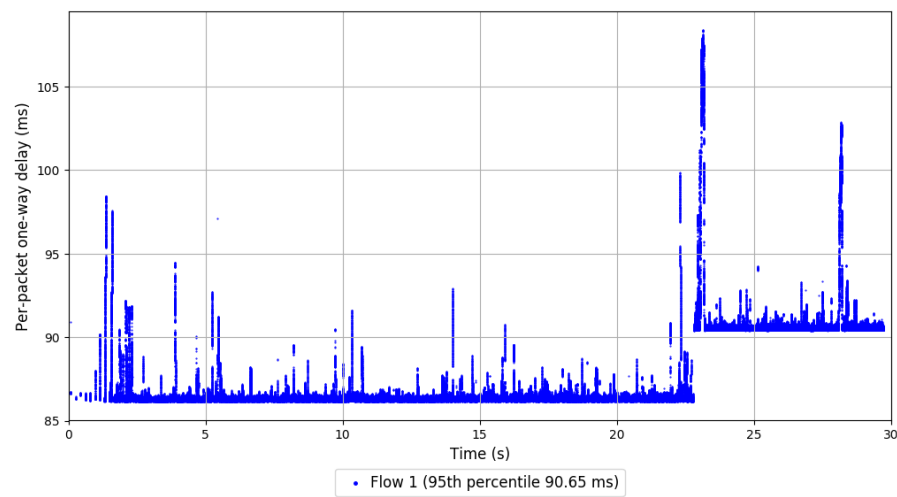
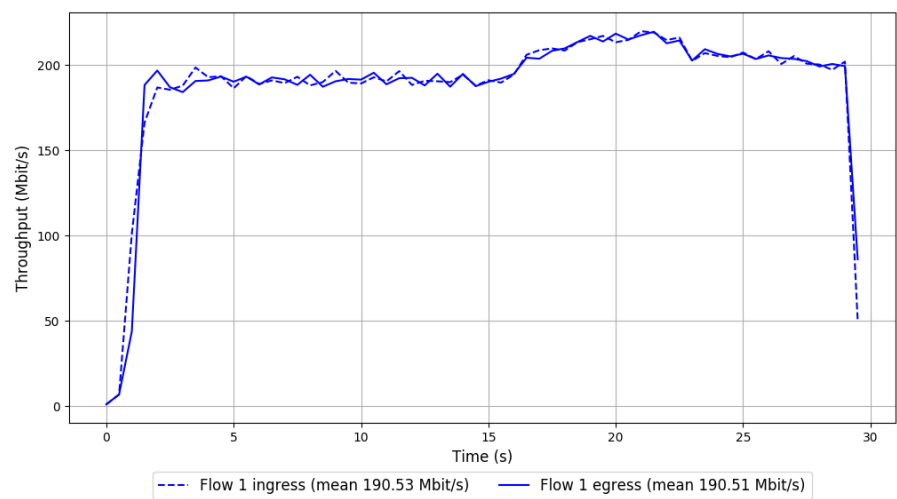
-- Flow 1:

Average throughput: 190.51 Mbit/s

95th percentile per-packet one-way delay: 90.651 ms

Loss rate: 0.00%

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

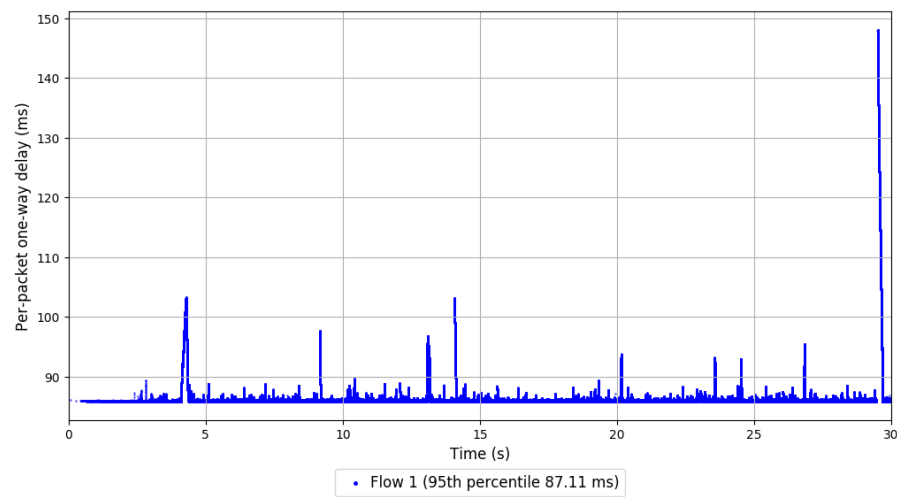
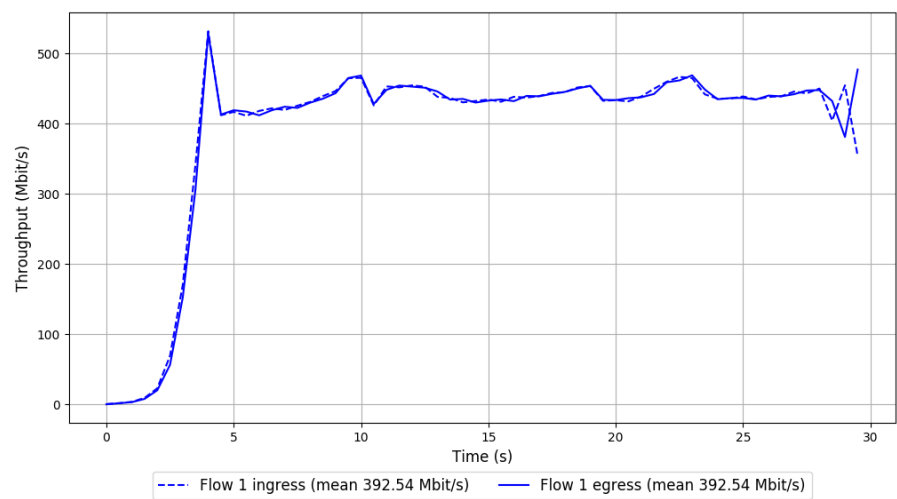


```
Run 1: Statistics of Vivace-latency

Start at: 2018-02-16 00:46:35
End at: 2018-02-16 00:47:05

# Below is generated by plot.py at 2018-02-16 05:42:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 392.54 Mbit/s
95th percentile per-packet one-way delay: 87.114 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 392.54 Mbit/s
95th percentile per-packet one-way delay: 87.114 ms
Loss rate: 0.00%
```

Run 1: Report of Vivace-latency — Data Link



Run 2: Statistics of Vivace-latency

Start at: 2018-02-16 01:01:40

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

Below is generated by plot.py at 2018-02-16 05:42:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 400.22 Mbit/s

95th percentile per-packet one-way delay: 118.015 ms

Loss rate: 0.04%

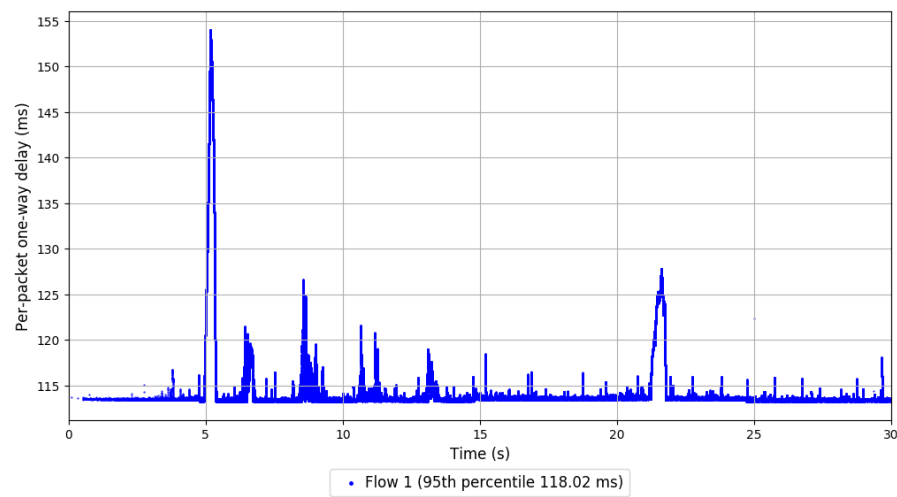
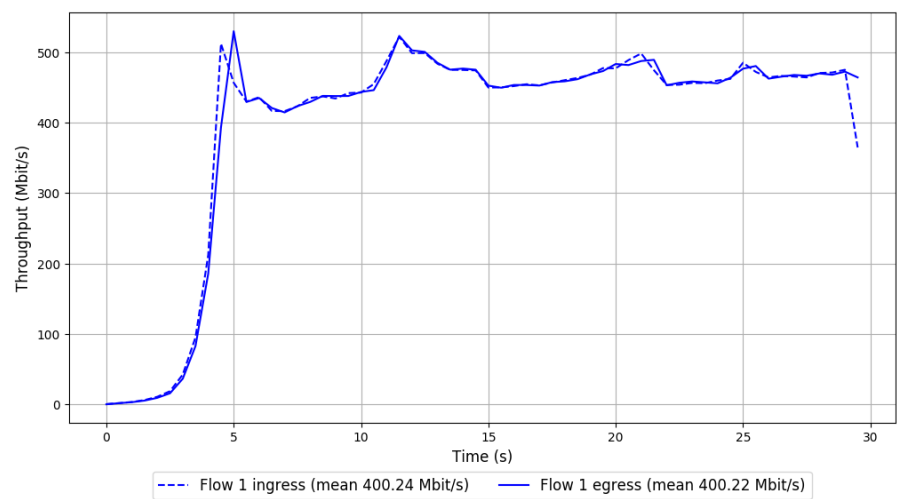
-- Flow 1:

Average throughput: 400.22 Mbit/s

95th percentile per-packet one-way delay: 118.015 ms

Loss rate: 0.04%

Run 2: Report of Vivace-latency — Data Link



Run 3: Statistics of Vivace-latency

Start at: 2018-02-16 01:17:07

End at: 2018-02-16 01:17:37

Below is generated by plot.py at 2018-02-16 05:42:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 219.38 Mbit/s

95th percentile per-packet one-way delay: 90.314 ms

Loss rate: 0.02%

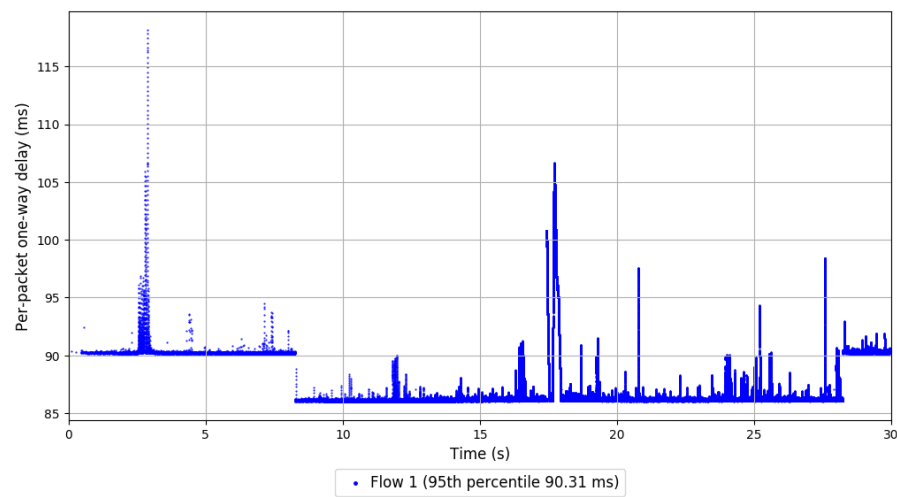
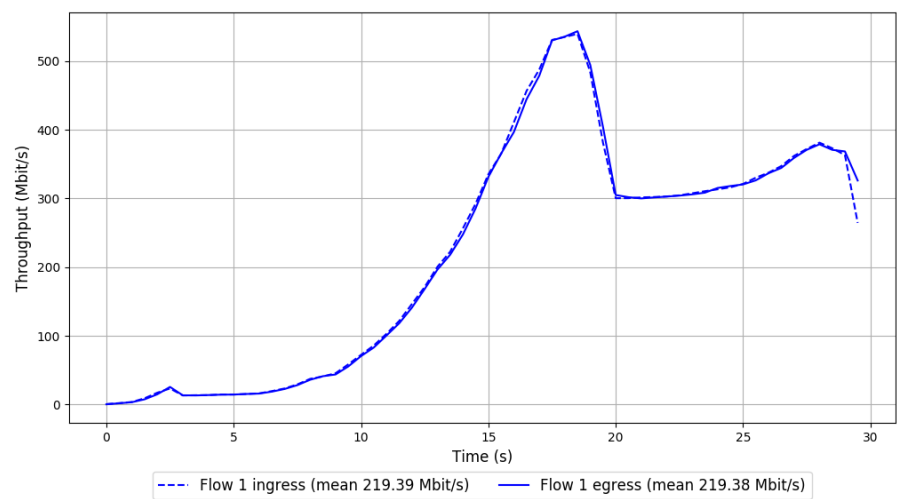
-- Flow 1:

Average throughput: 219.38 Mbit/s

95th percentile per-packet one-way delay: 90.314 ms

Loss rate: 0.02%

Run 3: Report of Vivace-latency — Data Link



Run 4: Statistics of Vivace-latency

Start at: 2018-02-16 01:32:24

End at: 2018-02-16 01:32:54

Below is generated by plot.py at 2018-02-16 05:42:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 350.47 Mbit/s

95th percentile per-packet one-way delay: 116.832 ms

Loss rate: 0.00%

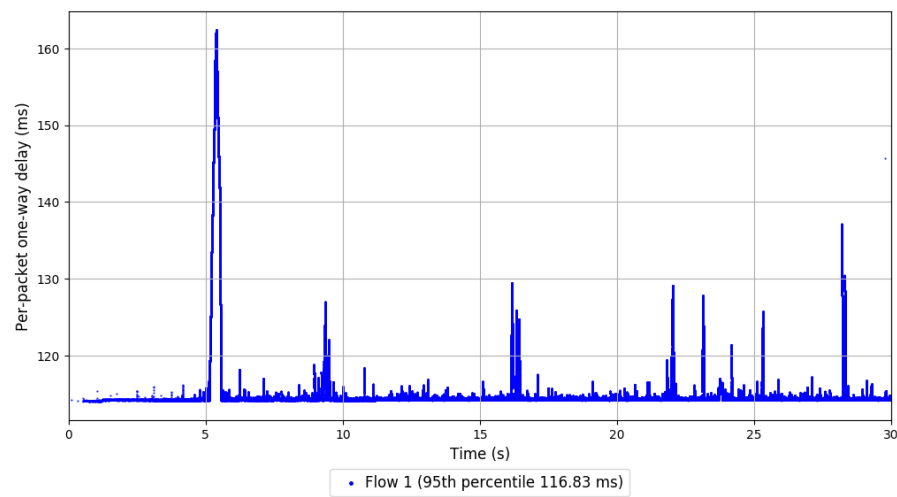
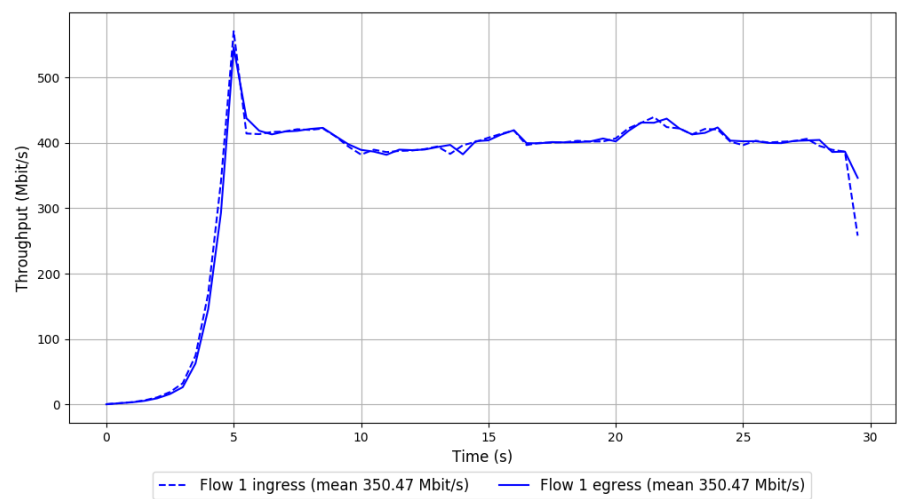
-- Flow 1:

Average throughput: 350.47 Mbit/s

95th percentile per-packet one-way delay: 116.832 ms

Loss rate: 0.00%

Run 4: Report of Vivace-latency — Data Link



Run 5: Statistics of Vivace-latency

Start at: 2018-02-16 01:47:28

End at: 2018-02-16 01:47:58

Below is generated by plot.py at 2018-02-16 05:42:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 383.92 Mbit/s

95th percentile per-packet one-way delay: 114.863 ms

Loss rate: 0.11%

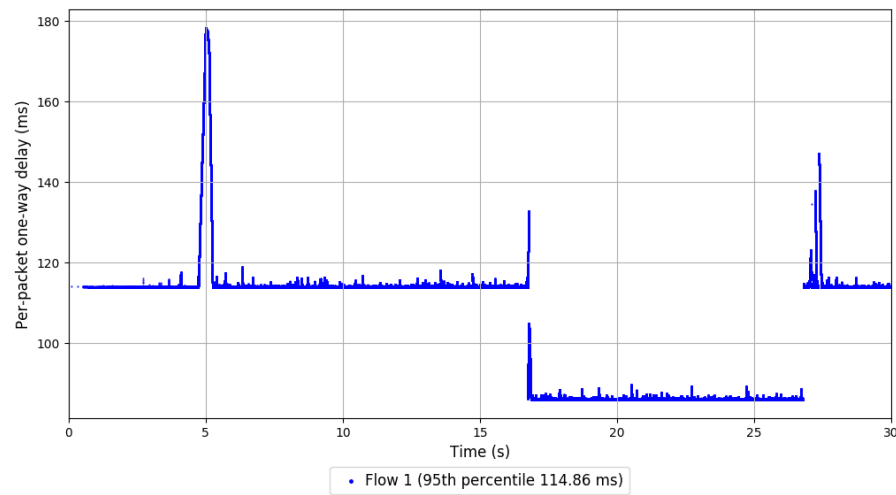
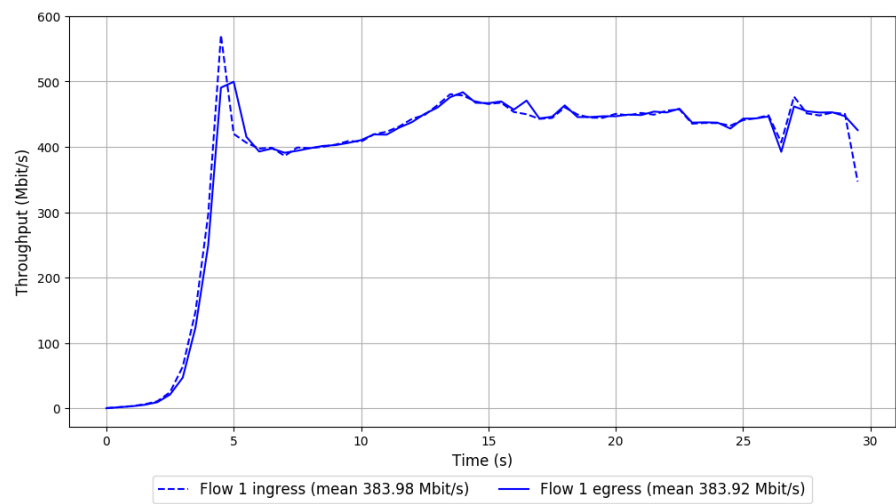
-- Flow 1:

Average throughput: 383.92 Mbit/s

95th percentile per-packet one-way delay: 114.863 ms

Loss rate: 0.11%

Run 5: Report of Vivace-latency — Data Link



Run 6: Statistics of Vivace-latency

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

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

Below is generated by plot.py at 2018-02-16 05:42:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 364.69 Mbit/s

95th percentile per-packet one-way delay: 91.233 ms

Loss rate: 0.01%

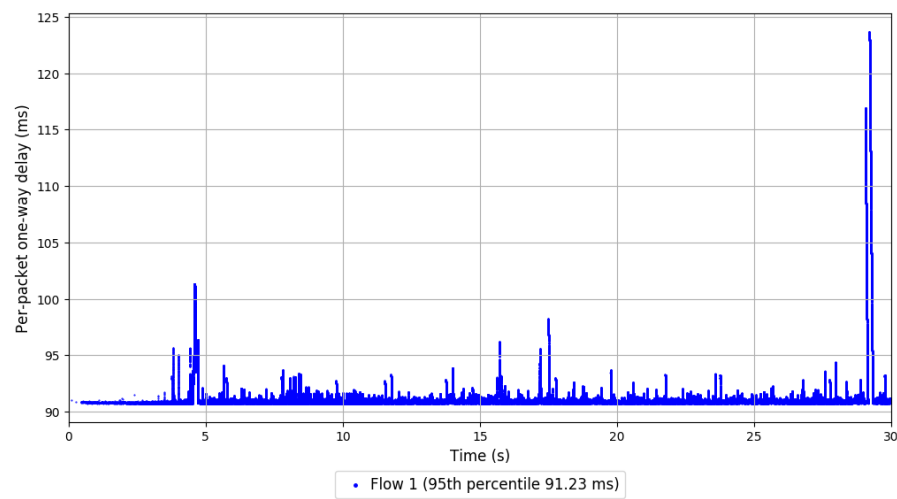
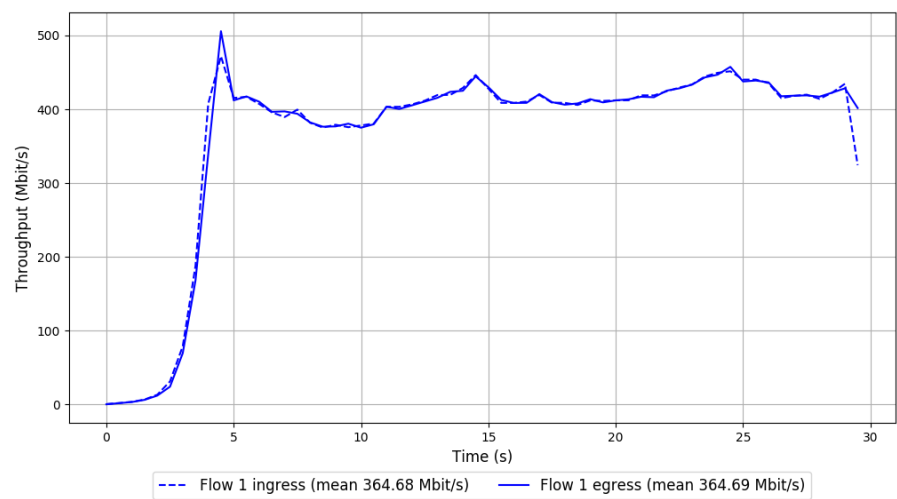
-- Flow 1:

Average throughput: 364.69 Mbit/s

95th percentile per-packet one-way delay: 91.233 ms

Loss rate: 0.01%

Run 6: Report of Vivace-latency — Data Link



Run 7: Statistics of Vivace-latency

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

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

Below is generated by plot.py at 2018-02-16 05:42:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 351.31 Mbit/s

95th percentile per-packet one-way delay: 114.975 ms

Loss rate: 0.00%

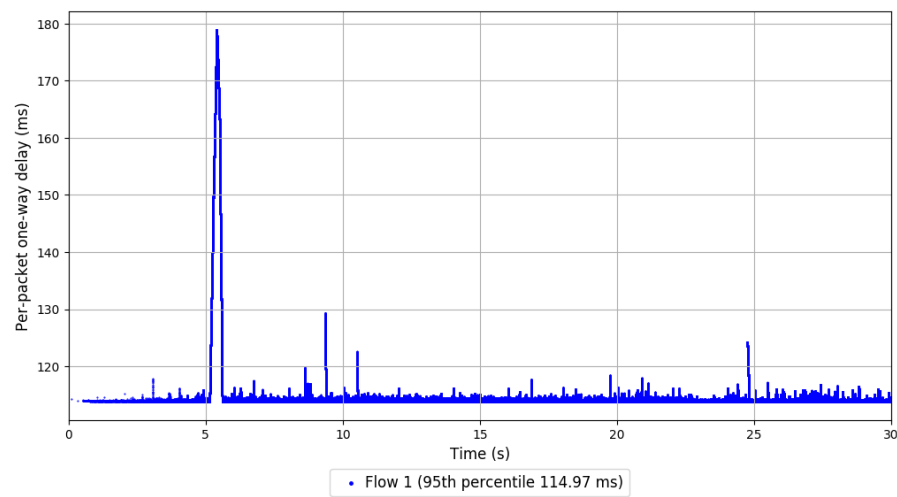
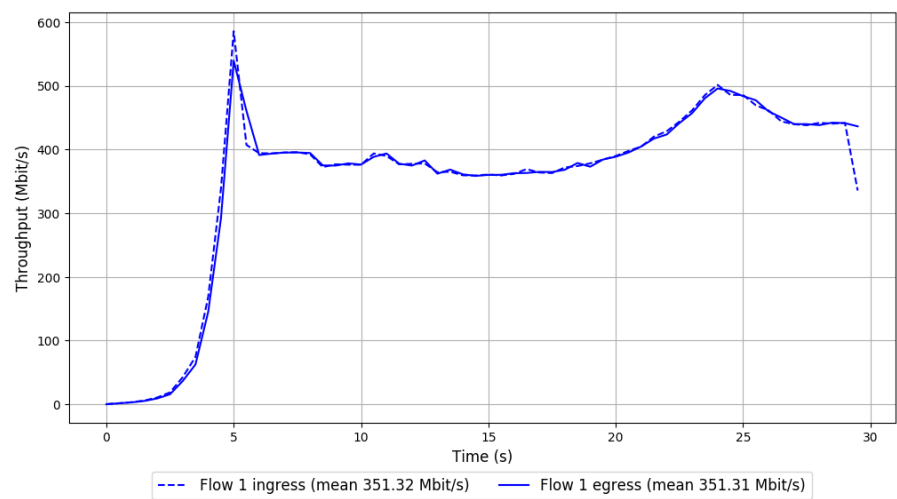
-- Flow 1:

Average throughput: 351.31 Mbit/s

95th percentile per-packet one-way delay: 114.975 ms

Loss rate: 0.00%

Run 7: Report of Vivace-latency — Data Link



Run 8: Statistics of Vivace-latency

Start at: 2018-02-16 02:32:35

End at: 2018-02-16 02:33:06

Below is generated by plot.py at 2018-02-16 05:43:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 397.88 Mbit/s

95th percentile per-packet one-way delay: 114.527 ms

Loss rate: 0.00%

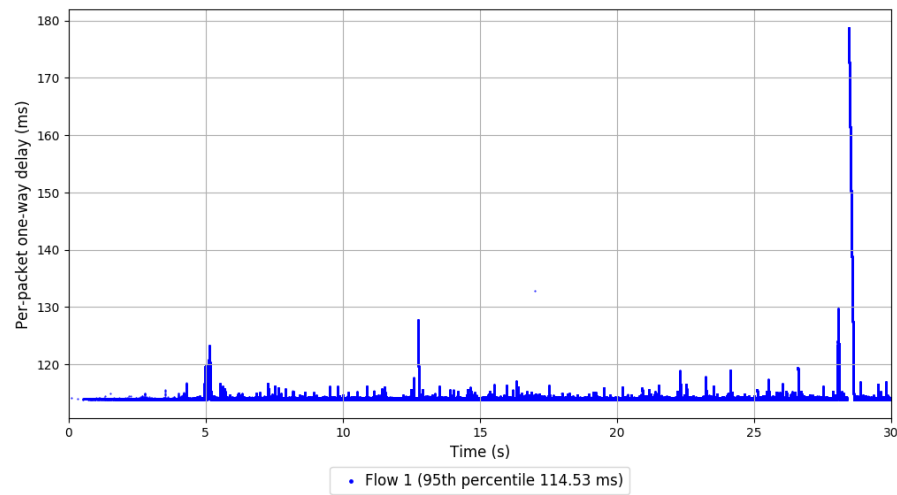
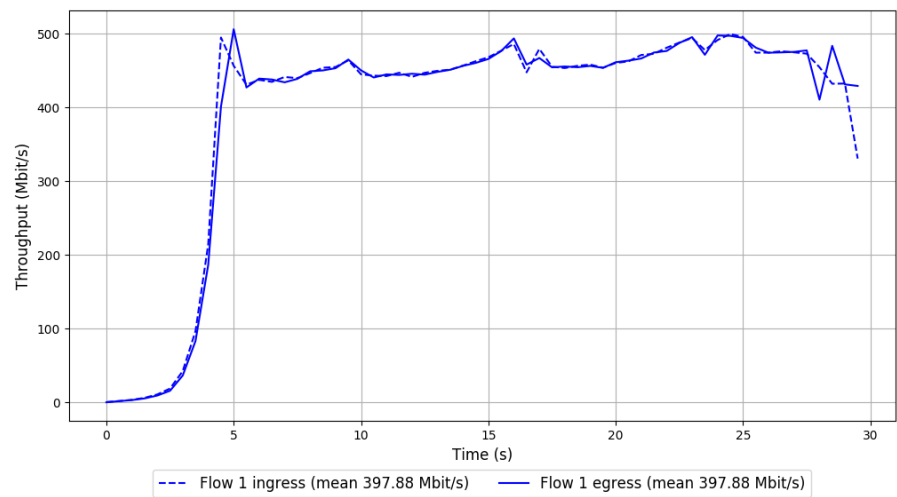
-- Flow 1:

Average throughput: 397.88 Mbit/s

95th percentile per-packet one-way delay: 114.527 ms

Loss rate: 0.00%

Run 8: Report of Vivace-latency — Data Link



Run 9: Statistics of Vivace-latency

Start at: 2018-02-16 02:47:42

End at: 2018-02-16 02:48:12

Below is generated by plot.py at 2018-02-16 05:43:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 365.91 Mbit/s

95th percentile per-packet one-way delay: 90.583 ms

Loss rate: 0.00%

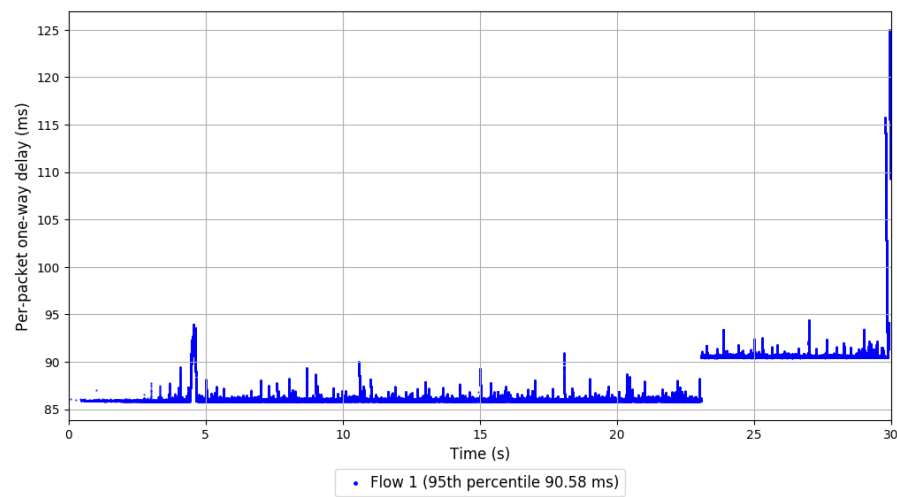
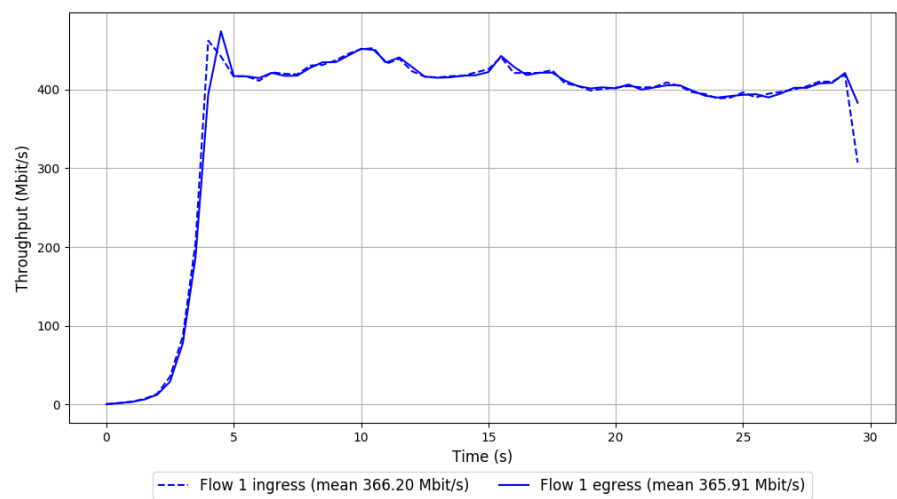
-- Flow 1:

Average throughput: 365.91 Mbit/s

95th percentile per-packet one-way delay: 90.583 ms

Loss rate: 0.00%

Run 9: Report of Vivace-latency — Data Link



Run 10: Statistics of Vivace-latency

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

End at: 2018-02-16 03:03:56

Below is generated by plot.py at 2018-02-16 05:44:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 379.17 Mbit/s

95th percentile per-packet one-way delay: 114.902 ms

Loss rate: 0.00%

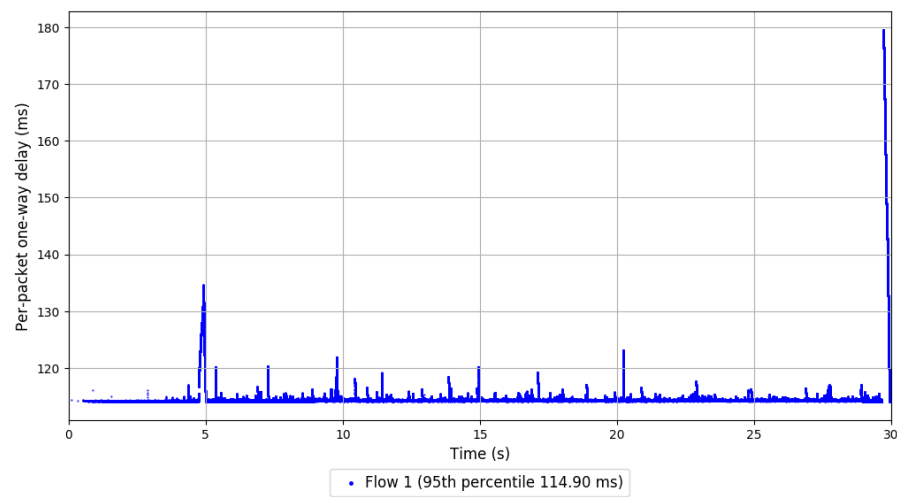
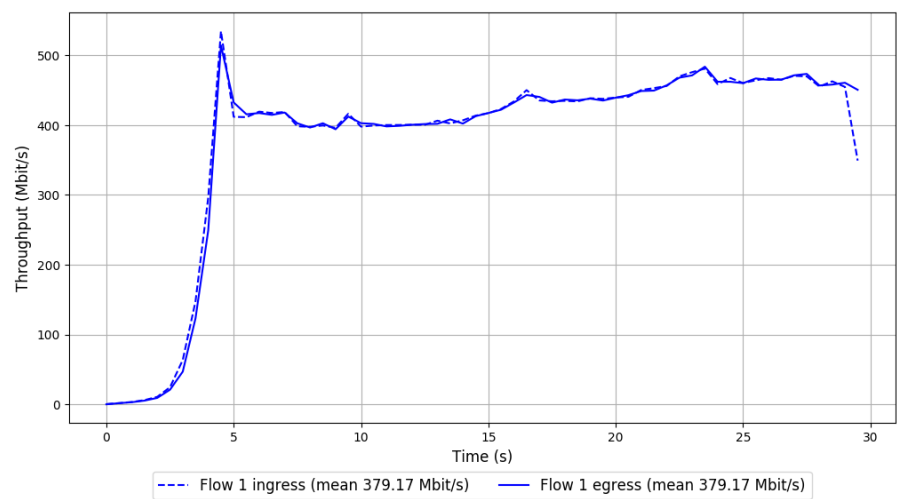
-- Flow 1:

Average throughput: 379.17 Mbit/s

95th percentile per-packet one-way delay: 114.902 ms

Loss rate: 0.00%

Run 10: Report of Vivace-latency — Data Link

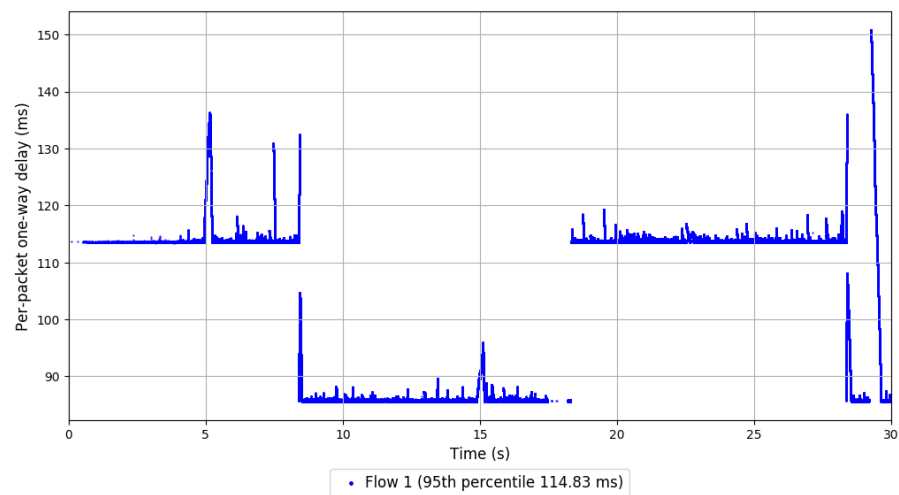
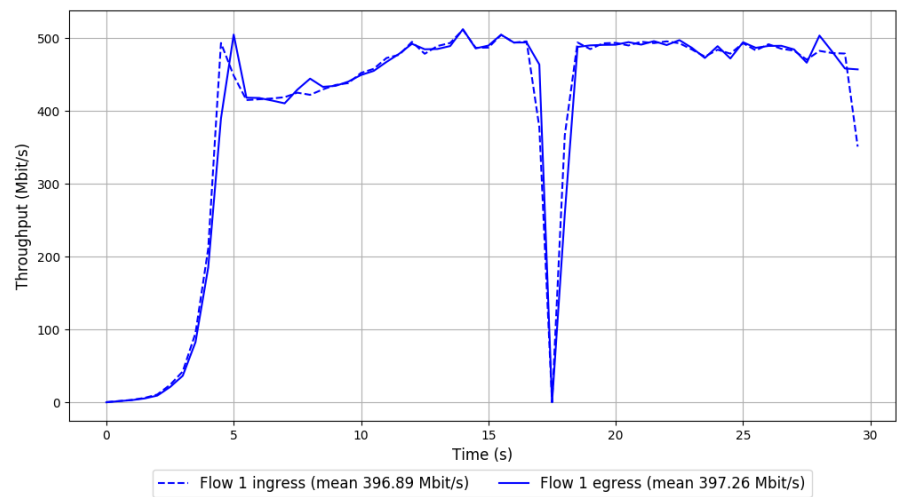


```
Run 1: Statistics of Vivace-loss

Start at: 2018-02-16 00:41:17
End at: 2018-02-16 00:41:47

# Below is generated by plot.py at 2018-02-16 05:46:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 397.26 Mbit/s
95th percentile per-packet one-way delay: 114.825 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 397.26 Mbit/s
95th percentile per-packet one-way delay: 114.825 ms
Loss rate: 0.00%
```

Run 1: Report of Vivace-loss — Data Link

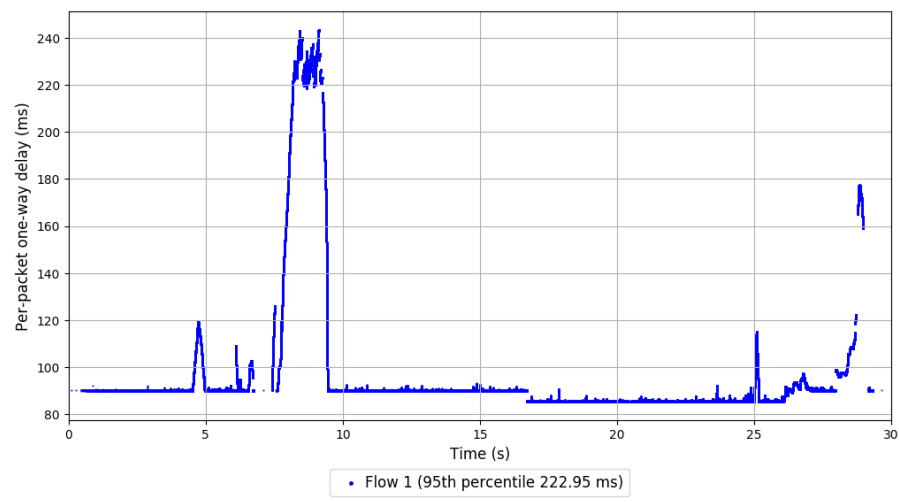
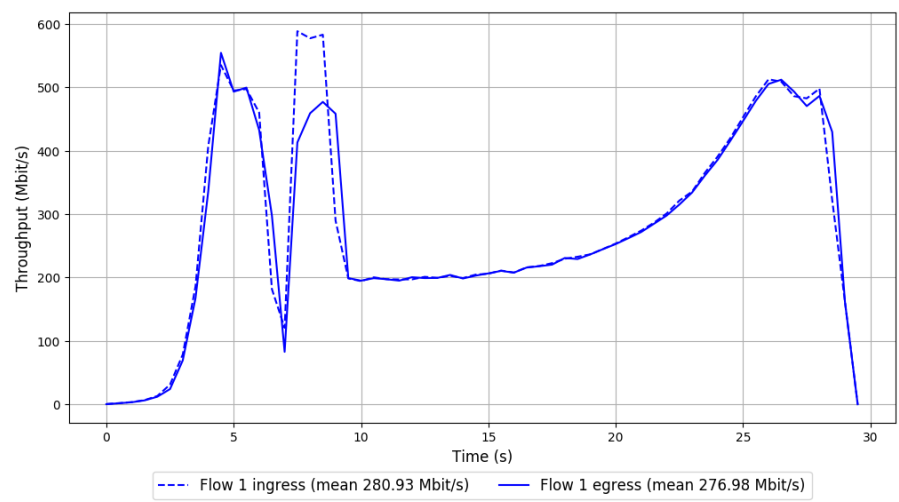


```
Run 2: Statistics of Vivace-loss

Start at: 2018-02-16 00:56:18
End at: 2018-02-16 00:56:48

# Below is generated by plot.py at 2018-02-16 05:46:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 276.98 Mbit/s
95th percentile per-packet one-way delay: 222.952 ms
Loss rate: 1.41%
-- Flow 1:
Average throughput: 276.98 Mbit/s
95th percentile per-packet one-way delay: 222.952 ms
Loss rate: 1.41%
```

Run 2: Report of Vivace-loss — Data Link



Run 3: Statistics of Vivace-loss

Start at: 2018-02-16 01:11:35

End at: 2018-02-16 01:12:05

Below is generated by plot.py at 2018-02-16 05:48:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 415.86 Mbit/s

95th percentile per-packet one-way delay: 103.066 ms

Loss rate: 0.00%

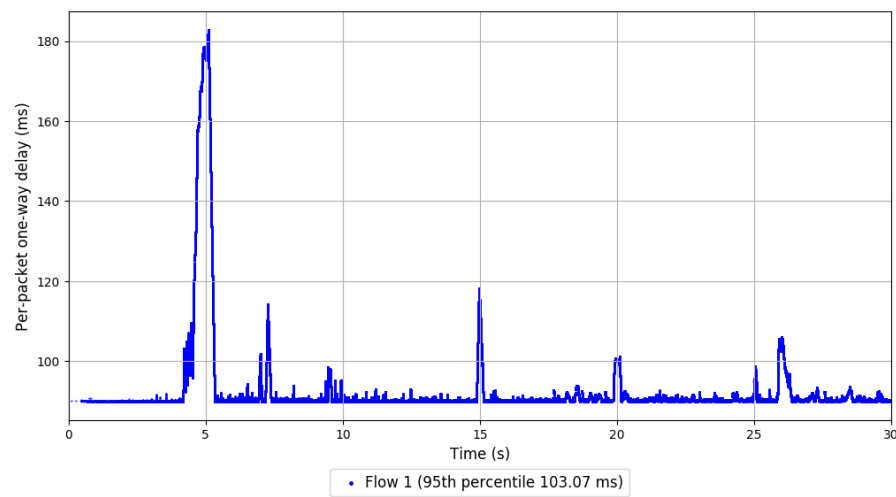
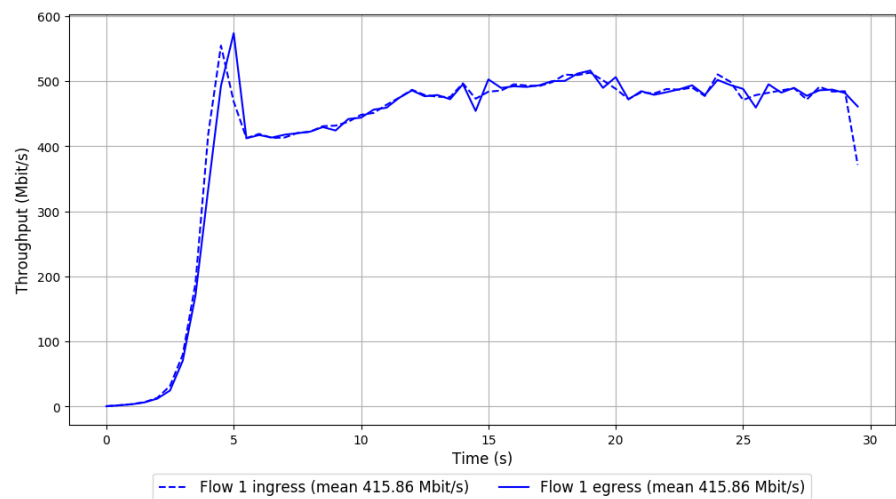
-- Flow 1:

Average throughput: 415.86 Mbit/s

95th percentile per-packet one-way delay: 103.066 ms

Loss rate: 0.00%

Run 3: Report of Vivace-loss — Data Link



Run 4: Statistics of Vivace-loss

Start at: 2018-02-16 01:26:51

End at: 2018-02-16 01:27:21

Below is generated by plot.py at 2018-02-16 05:49:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 418.20 Mbit/s

95th percentile per-packet one-way delay: 99.509 ms

Loss rate: 0.02%

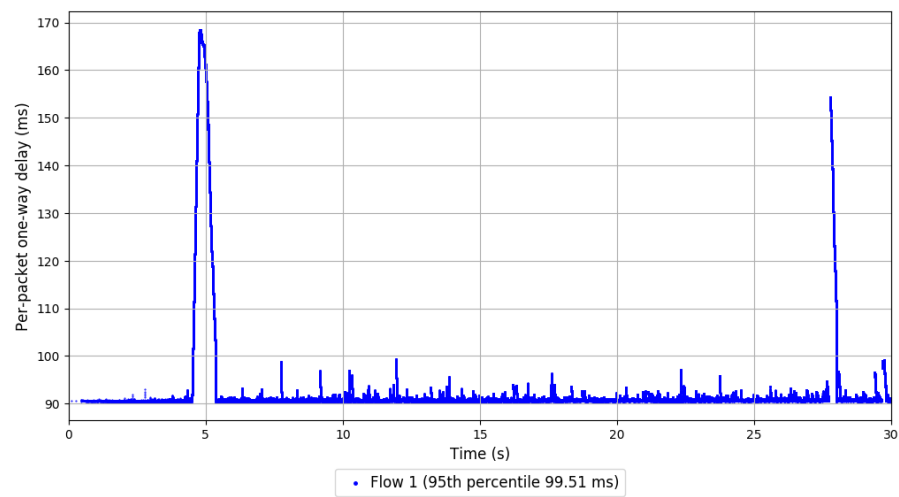
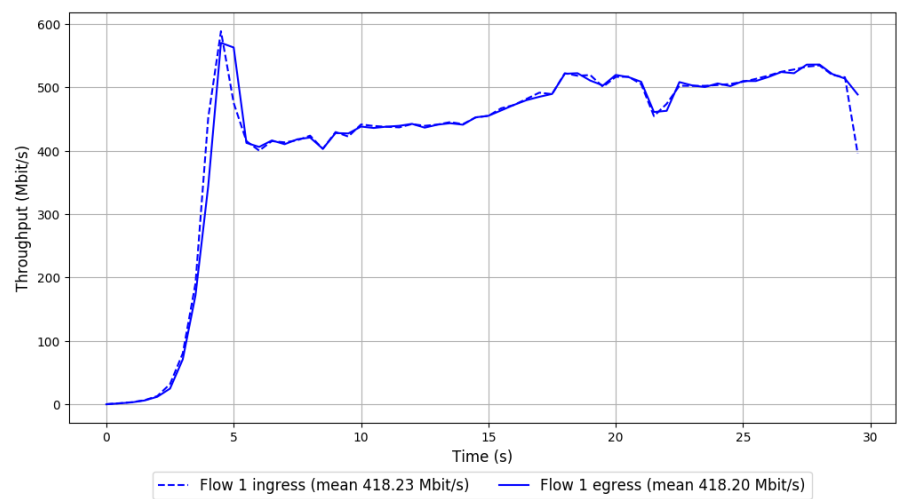
-- Flow 1:

Average throughput: 418.20 Mbit/s

95th percentile per-packet one-way delay: 99.509 ms

Loss rate: 0.02%

Run 4: Report of Vivace-loss — Data Link



Run 5: Statistics of Vivace-loss

Start at: 2018-02-16 01:42:00

End at: 2018-02-16 01:42:30

Below is generated by plot.py at 2018-02-16 05:49:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 371.47 Mbit/s

95th percentile per-packet one-way delay: 122.321 ms

Loss rate: 0.12%

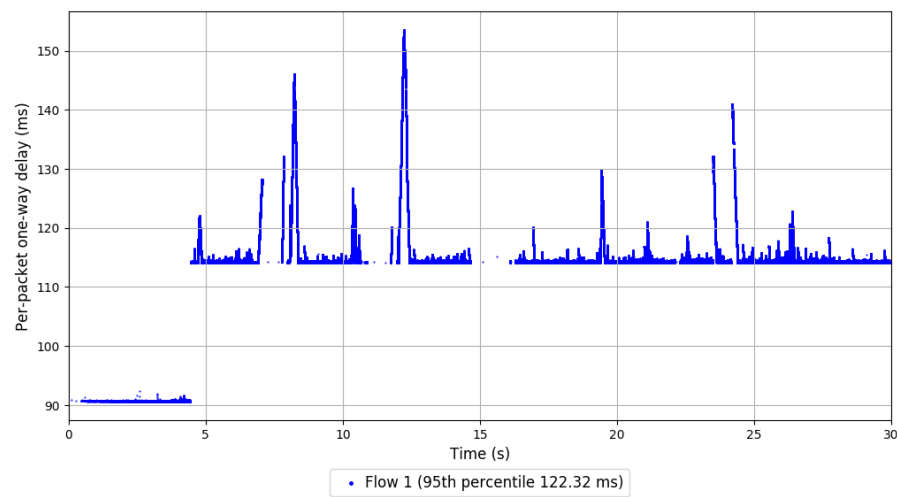
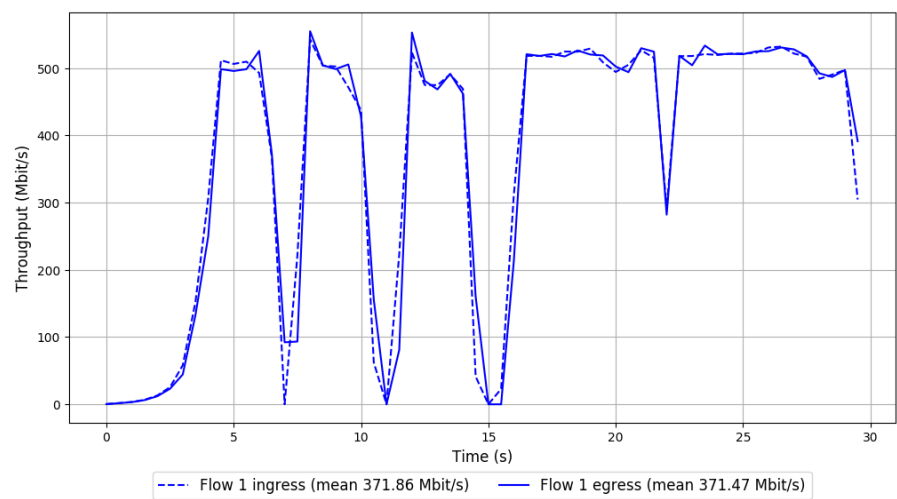
-- Flow 1:

Average throughput: 371.47 Mbit/s

95th percentile per-packet one-way delay: 122.321 ms

Loss rate: 0.12%

Run 5: Report of Vivace-loss — Data Link



Run 6: Statistics of Vivace-loss

Start at: 2018-02-16 01:57:17

End at: 2018-02-16 01:57:47

Below is generated by plot.py at 2018-02-16 05:50:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 385.67 Mbit/s

95th percentile per-packet one-way delay: 114.413 ms

Loss rate: 0.00%

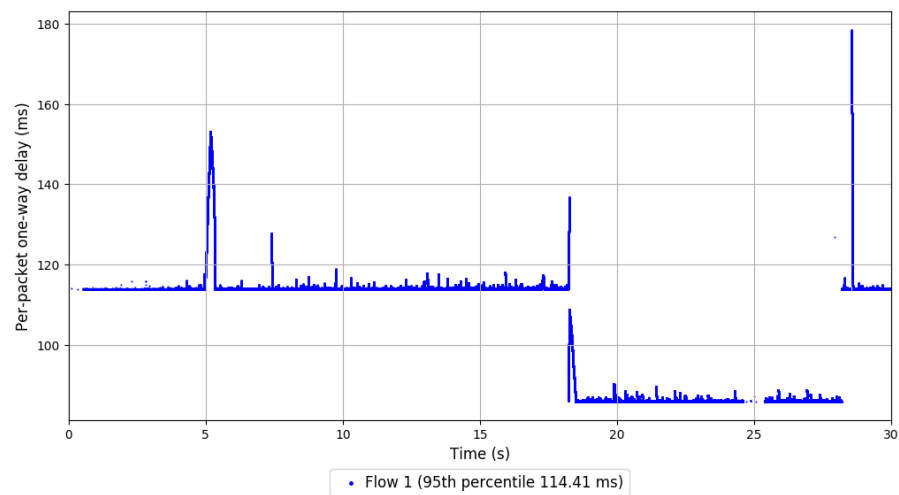
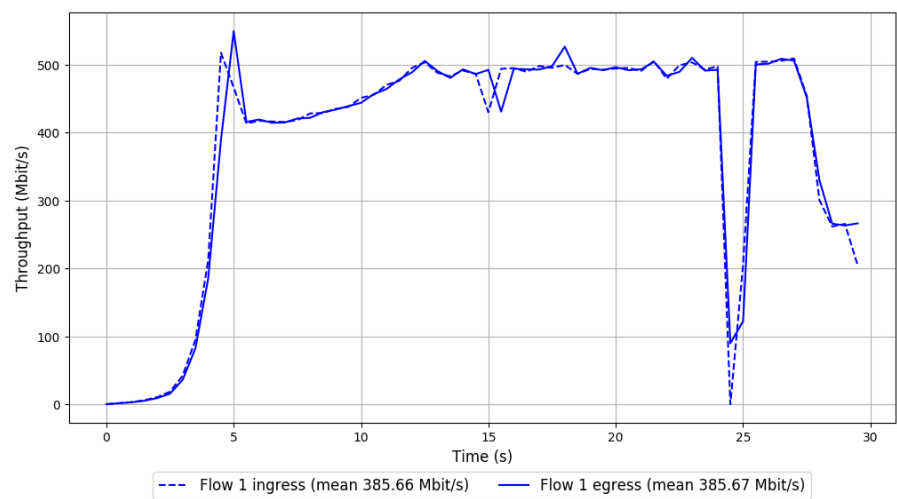
-- Flow 1:

Average throughput: 385.67 Mbit/s

95th percentile per-packet one-way delay: 114.413 ms

Loss rate: 0.00%

Run 6: Report of Vivace-loss — Data Link



Run 7: Statistics of Vivace-loss

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

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

Below is generated by plot.py at 2018-02-16 05:50:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 338.53 Mbit/s

95th percentile per-packet one-way delay: 142.223 ms

Loss rate: 0.00%

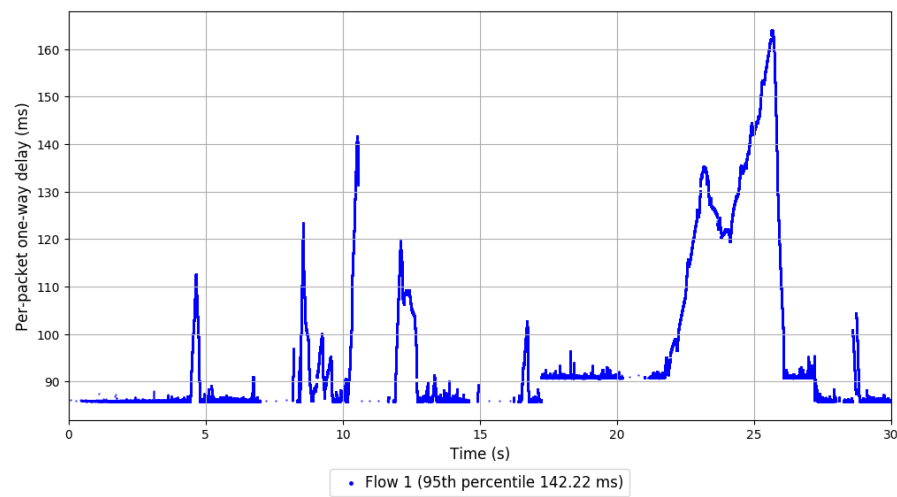
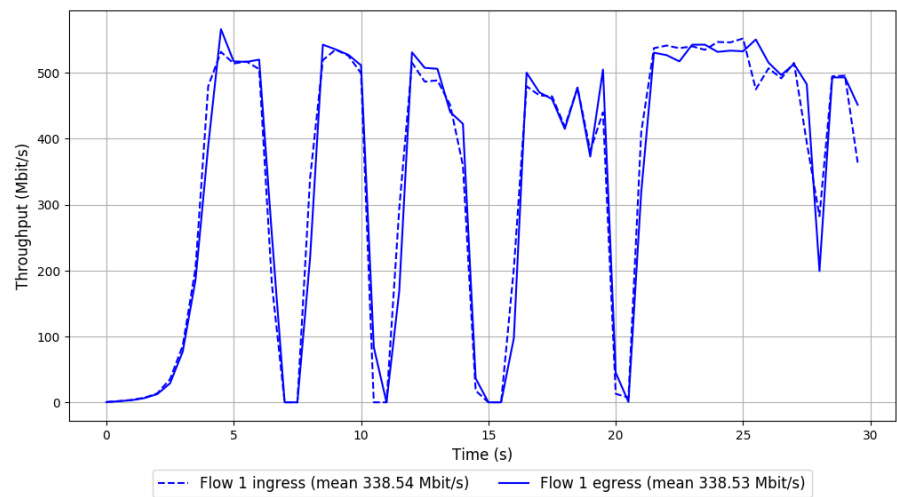
-- Flow 1:

Average throughput: 338.53 Mbit/s

95th percentile per-packet one-way delay: 142.223 ms

Loss rate: 0.00%

Run 7: Report of Vivace-loss — Data Link



Run 8: Statistics of Vivace-loss

Start at: 2018-02-16 02:27:11

End at: 2018-02-16 02:27:41

Below is generated by plot.py at 2018-02-16 05:51:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 373.27 Mbit/s

95th percentile per-packet one-way delay: 143.188 ms

Loss rate: 0.58%

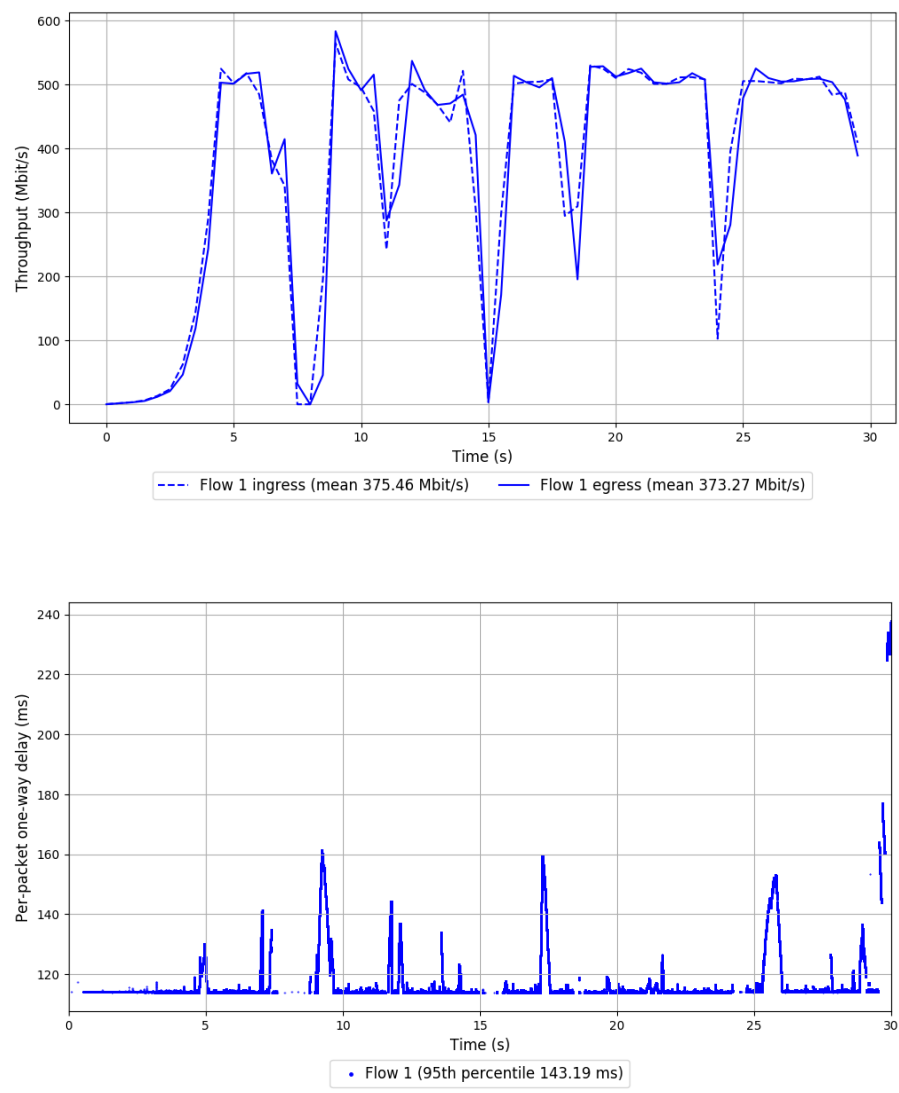
-- Flow 1:

Average throughput: 373.27 Mbit/s

95th percentile per-packet one-way delay: 143.188 ms

Loss rate: 0.58%

Run 8: Report of Vivace-loss — Data Link



Run 9: Statistics of Vivace-loss

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

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

Below is generated by plot.py at 2018-02-16 05:52:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 407.74 Mbit/s

95th percentile per-packet one-way delay: 116.231 ms

Loss rate: 0.03%

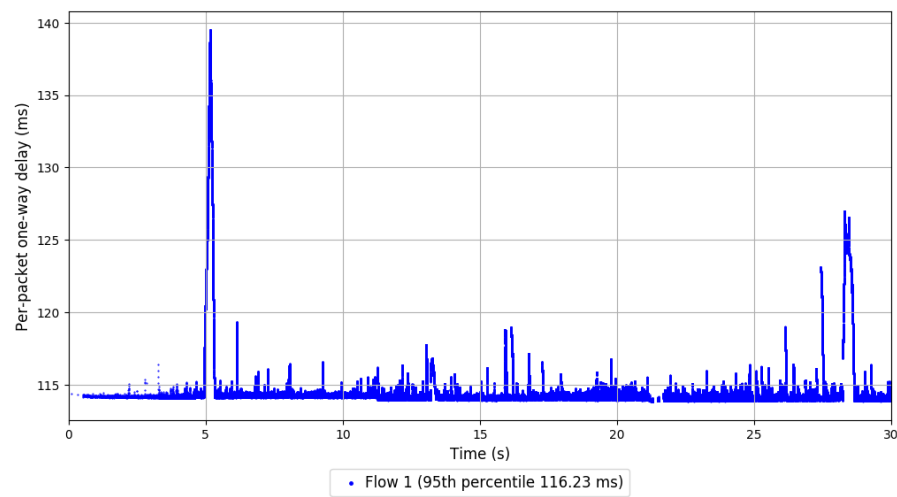
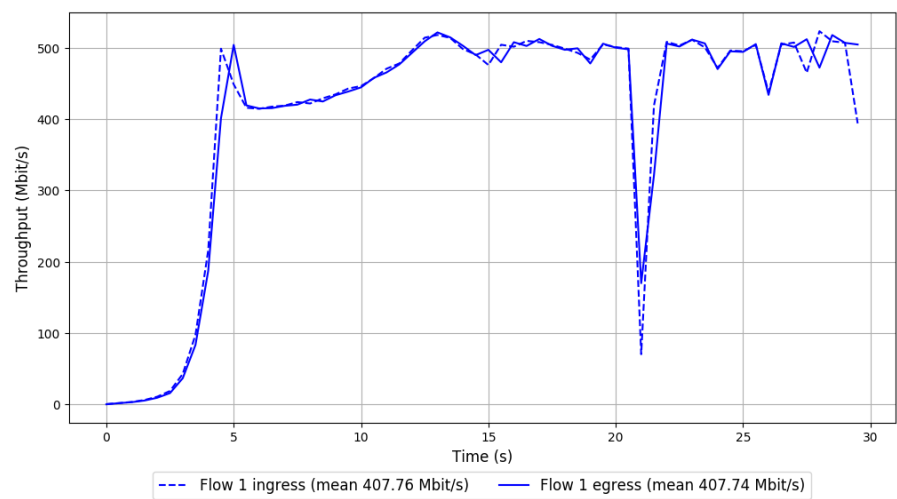
-- Flow 1:

Average throughput: 407.74 Mbit/s

95th percentile per-packet one-way delay: 116.231 ms

Loss rate: 0.03%

Run 9: Report of Vivace-loss — Data Link



Run 10: Statistics of Vivace-loss

Start at: 2018-02-16 02:57:27

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

Below is generated by plot.py at 2018-02-16 05:52:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 338.92 Mbit/s

95th percentile per-packet one-way delay: 86.203 ms

Loss rate: 0.00%

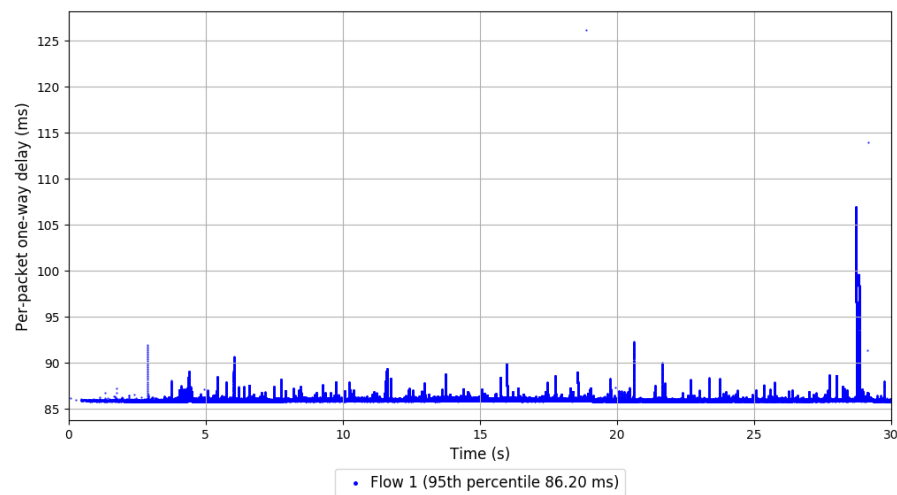
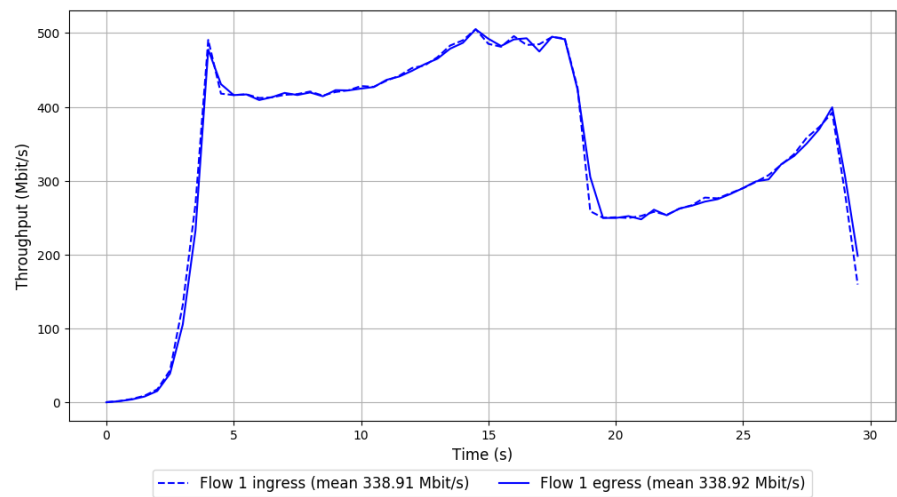
-- Flow 1:

Average throughput: 338.92 Mbit/s

95th percentile per-packet one-way delay: 86.203 ms

Loss rate: 0.00%

Run 10: Report of Vivace-loss — Data Link



Run 1: Statistics of Vivace-LTE

Start at: 2018-02-16 00:38:48

End at: 2018-02-16 00:39:18

Below is generated by plot.py at 2018-02-16 05:55:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 354.59 Mbit/s

95th percentile per-packet one-way delay: 127.630 ms

Loss rate: 0.55%

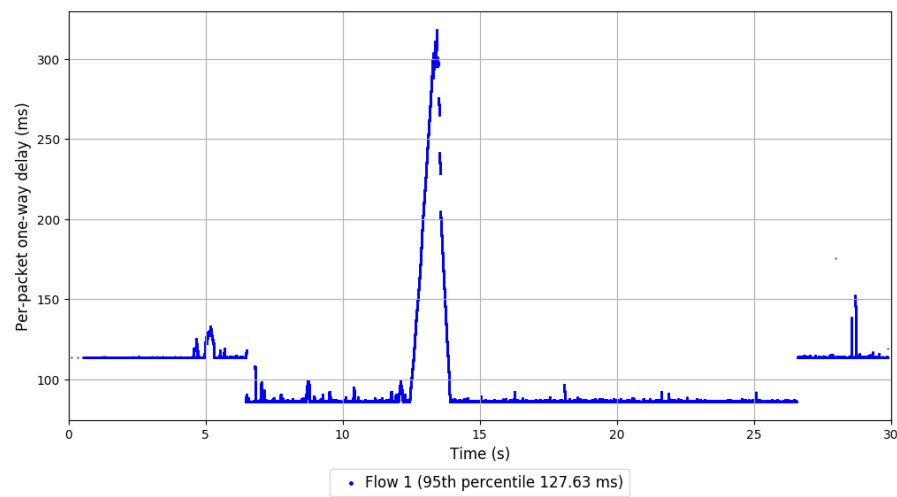
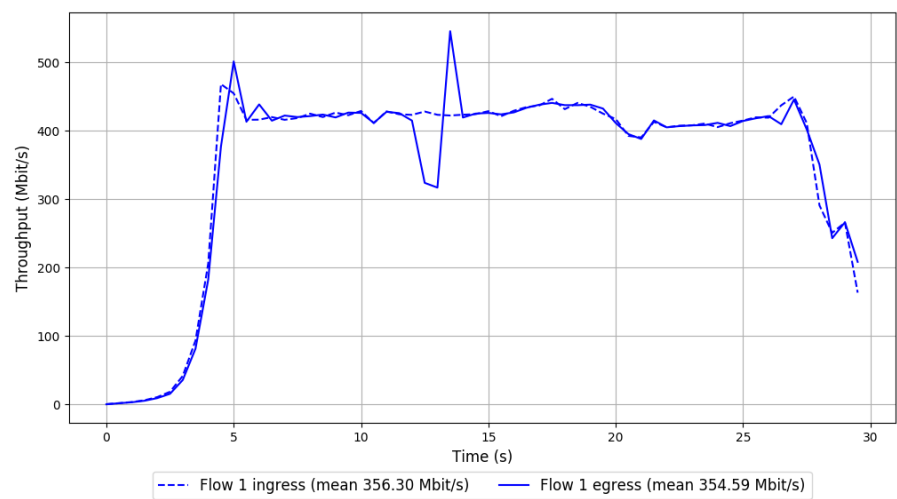
-- Flow 1:

Average throughput: 354.59 Mbit/s

95th percentile per-packet one-way delay: 127.630 ms

Loss rate: 0.55%

Run 1: Report of Vivace-LTE — Data Link



Run 2: Statistics of Vivace-LTE

Start at: 2018-02-16 00:53:43

End at: 2018-02-16 00:54:14

Below is generated by plot.py at 2018-02-16 05:57:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 422.64 Mbit/s

95th percentile per-packet one-way delay: 114.619 ms

Loss rate: 0.00%

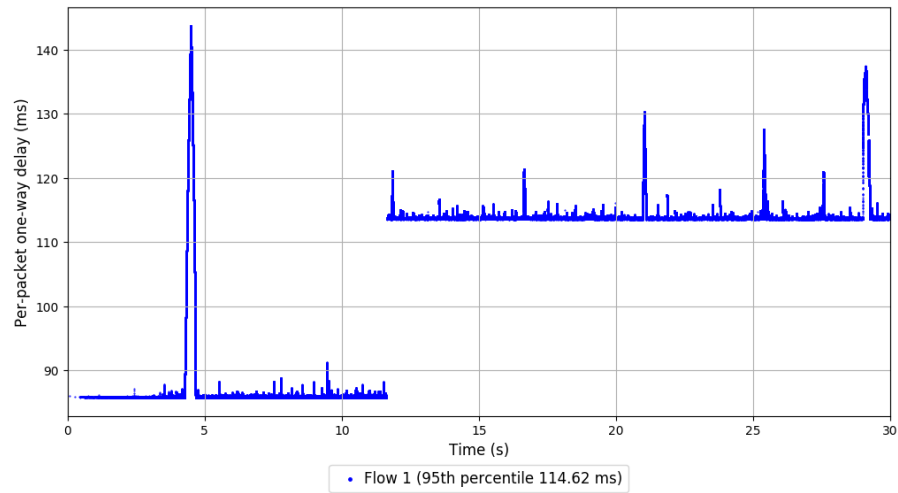
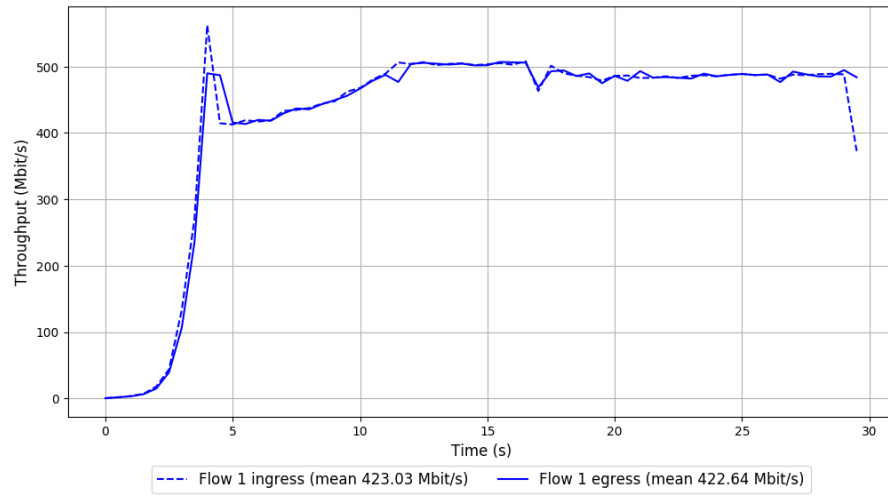
-- Flow 1:

Average throughput: 422.64 Mbit/s

95th percentile per-packet one-way delay: 114.619 ms

Loss rate: 0.00%

Run 2: Report of Vivace-LTE — Data Link



Run 3: Statistics of Vivace-LTE

Start at: 2018-02-16 01:09:01

End at: 2018-02-16 01:09:31

Below is generated by plot.py at 2018-02-16 05:57:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 396.45 Mbit/s

95th percentile per-packet one-way delay: 113.698 ms

Loss rate: 0.00%

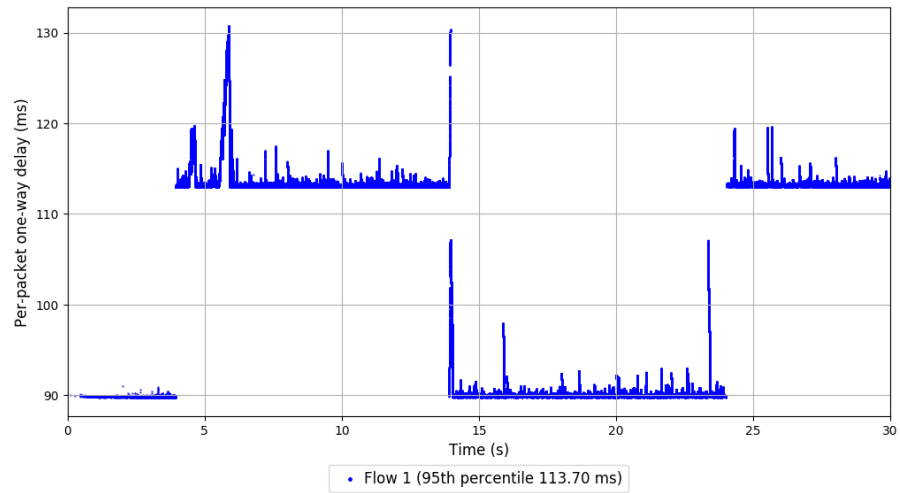
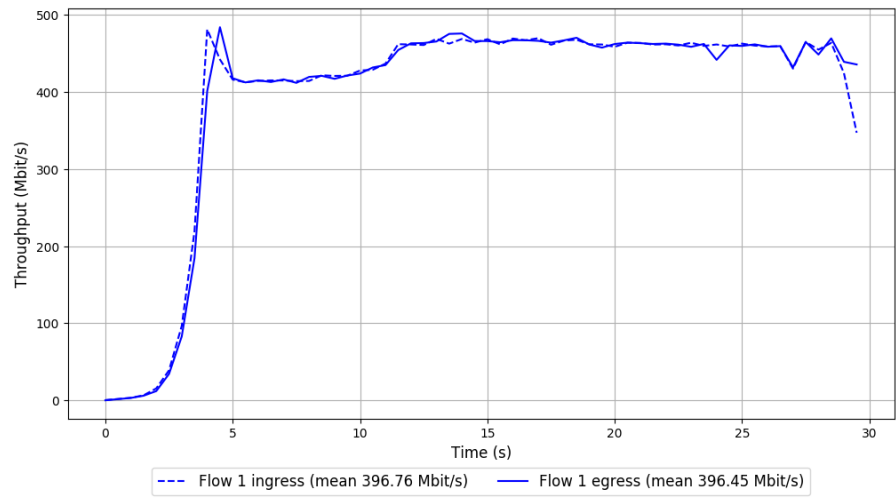
-- Flow 1:

Average throughput: 396.45 Mbit/s

95th percentile per-packet one-way delay: 113.698 ms

Loss rate: 0.00%

Run 3: Report of Vivace-LTE — Data Link



Run 4: Statistics of Vivace-LTE

Start at: 2018-02-16 01:24:19

End at: 2018-02-16 01:24:49

Below is generated by plot.py at 2018-02-16 05:57:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 382.32 Mbit/s

95th percentile per-packet one-way delay: 113.850 ms

Loss rate: 0.00%

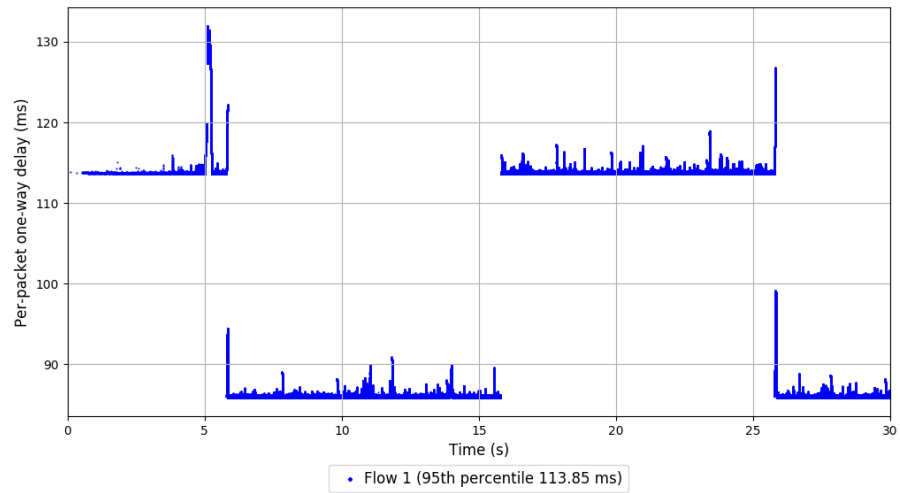
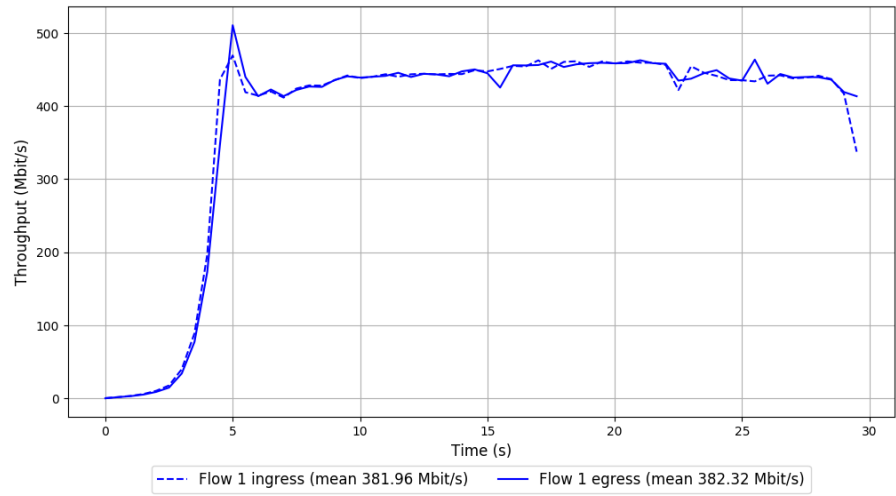
-- Flow 1:

Average throughput: 382.32 Mbit/s

95th percentile per-packet one-way delay: 113.850 ms

Loss rate: 0.00%

Run 4: Report of Vivace-LTE — Data Link



Run 5: Statistics of Vivace-LTE

Start at: 2018-02-16 01:39:29

End at: 2018-02-16 01:39:59

Below is generated by plot.py at 2018-02-16 05:57:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 384.52 Mbit/s

95th percentile per-packet one-way delay: 90.831 ms

Loss rate: 0.01%

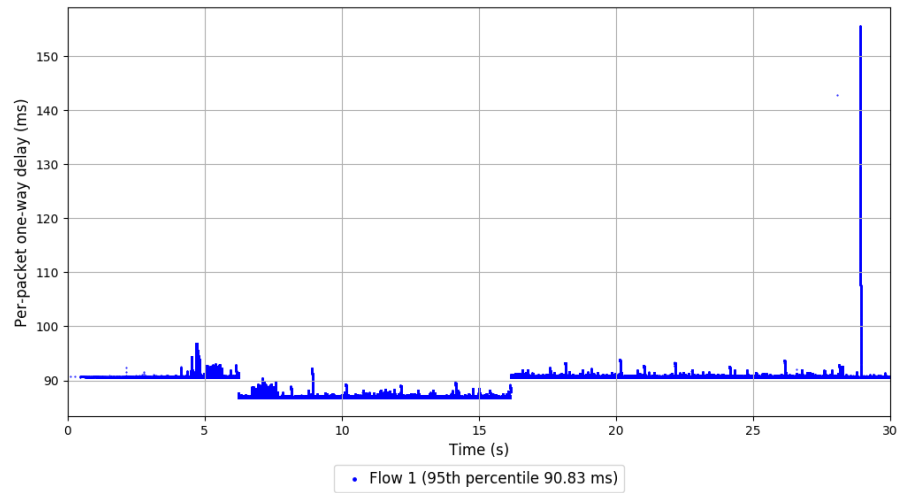
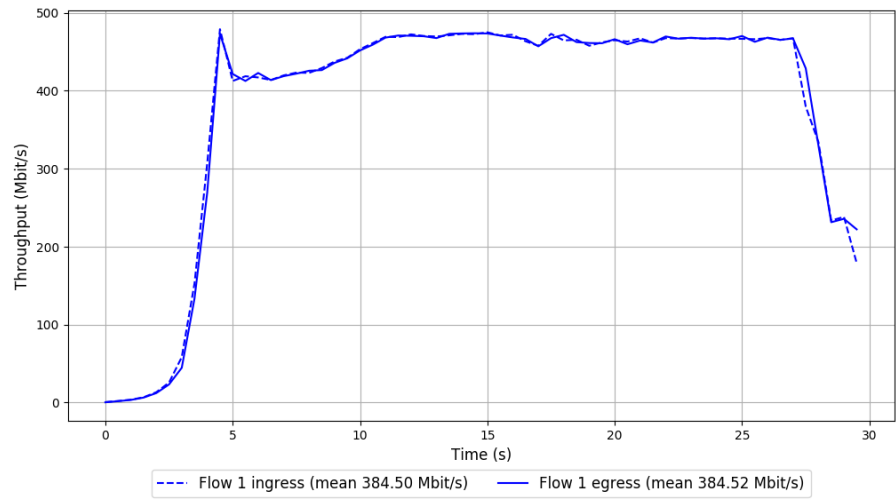
-- Flow 1:

Average throughput: 384.52 Mbit/s

95th percentile per-packet one-way delay: 90.831 ms

Loss rate: 0.01%

Run 5: Report of Vivace-LTE — Data Link



Run 6: Statistics of Vivace-LTE

Start at: 2018-02-16 01:54:46

End at: 2018-02-16 01:55:16

Below is generated by plot.py at 2018-02-16 05:58:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 388.34 Mbit/s

95th percentile per-packet one-way delay: 114.708 ms

Loss rate: 0.00%

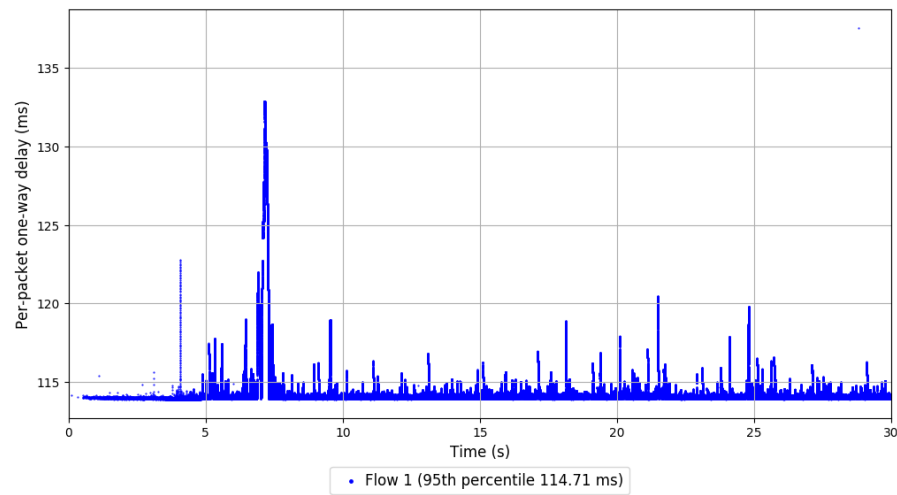
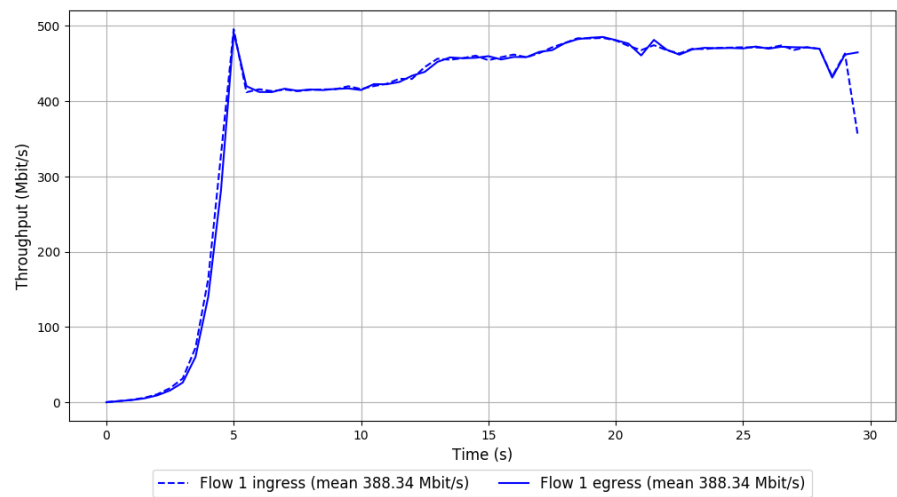
-- Flow 1:

Average throughput: 388.34 Mbit/s

95th percentile per-packet one-way delay: 114.708 ms

Loss rate: 0.00%

Run 6: Report of Vivace-LTE — Data Link



Run 7: Statistics of Vivace-LTE

Start at: 2018-02-16 02:09:13

End at: 2018-02-16 02:09:43

Below is generated by plot.py at 2018-02-16 05:58:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 389.18 Mbit/s

95th percentile per-packet one-way delay: 86.165 ms

Loss rate: 0.00%

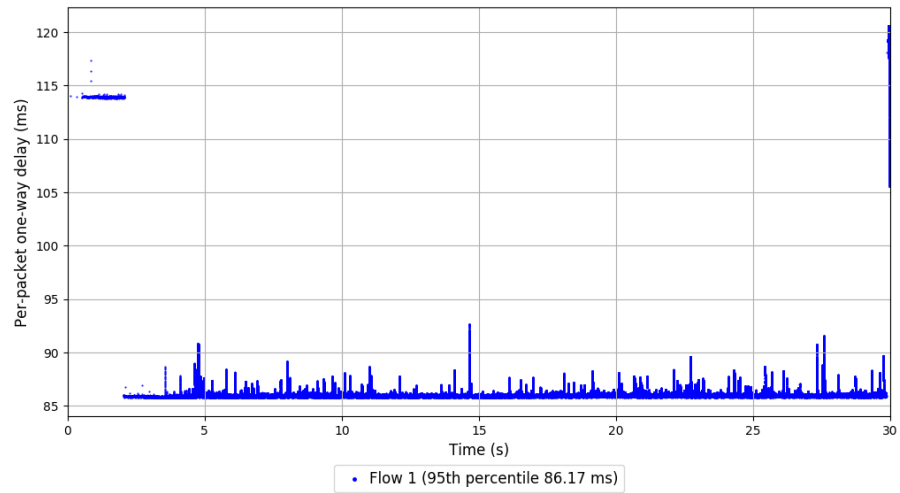
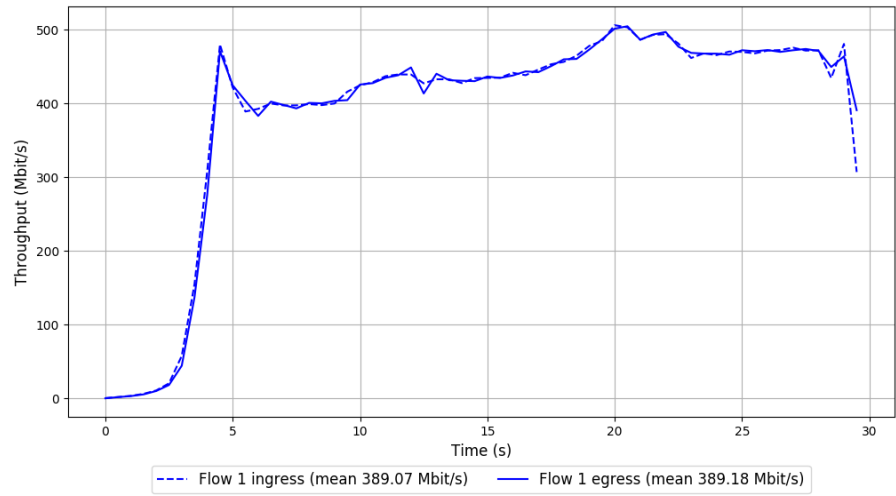
-- Flow 1:

Average throughput: 389.18 Mbit/s

95th percentile per-packet one-way delay: 86.165 ms

Loss rate: 0.00%

Run 7: Report of Vivace-LTE — Data Link



Run 8: Statistics of Vivace-LTE

Start at: 2018-02-16 02:24:35

End at: 2018-02-16 02:25:05

Below is generated by plot.py at 2018-02-16 05:58:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 396.51 Mbit/s

95th percentile per-packet one-way delay: 114.307 ms

Loss rate: 0.01%

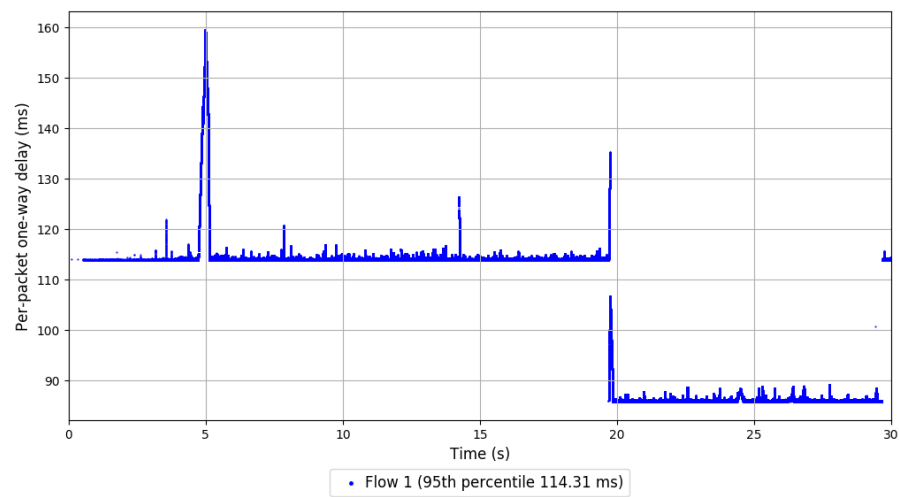
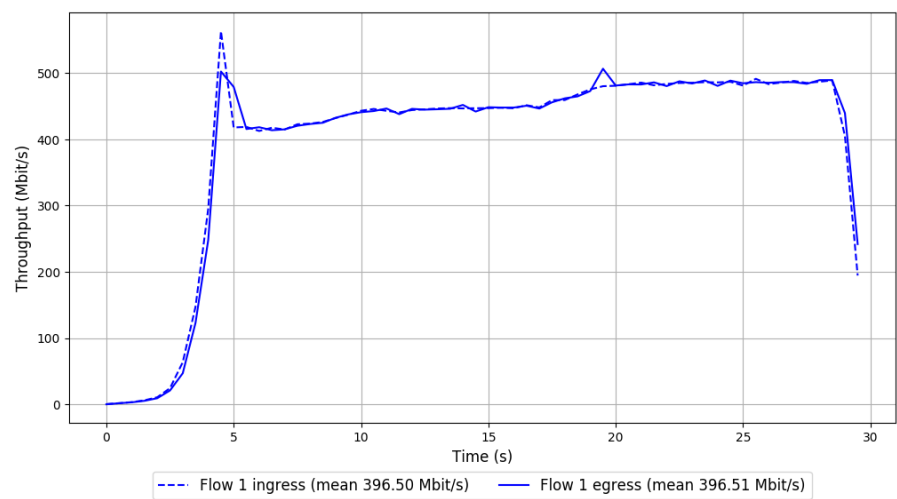
-- Flow 1:

Average throughput: 396.51 Mbit/s

95th percentile per-packet one-way delay: 114.307 ms

Loss rate: 0.01%

Run 8: Report of Vivace-LTE — Data Link



Run 9: Statistics of Vivace-LTE

Start at: 2018-02-16 02:39:51

End at: 2018-02-16 02:40:21

Below is generated by plot.py at 2018-02-16 05:59:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 403.63 Mbit/s

95th percentile per-packet one-way delay: 127.030 ms

Loss rate: 0.00%

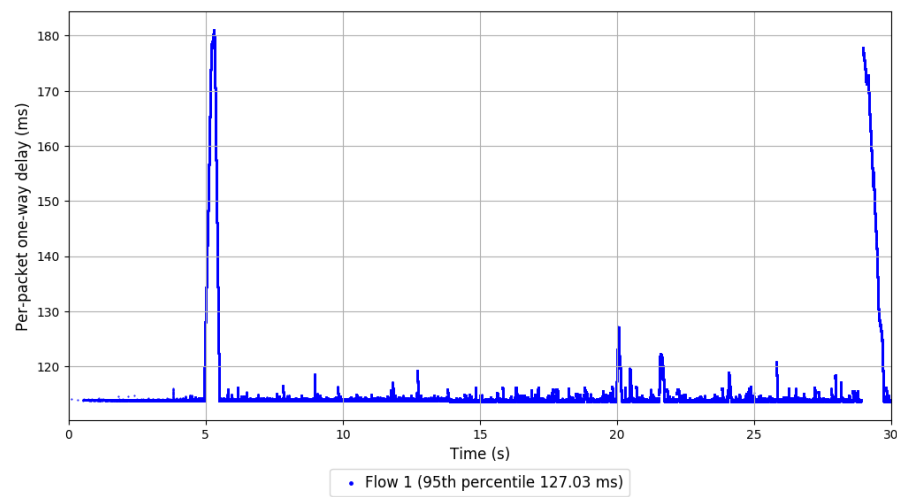
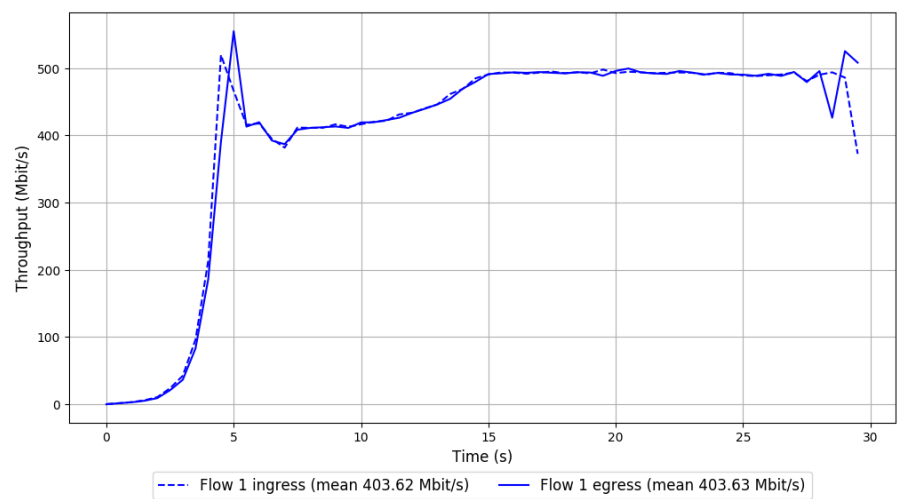
-- Flow 1:

Average throughput: 403.63 Mbit/s

95th percentile per-packet one-way delay: 127.030 ms

Loss rate: 0.00%

Run 9: Report of Vivace-LTE — Data Link



Run 10: Statistics of Vivace-LTE

Start at: 2018-02-16 02:54:55

End at: 2018-02-16 02:55:25

Below is generated by plot.py at 2018-02-16 05:59:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 342.35 Mbit/s

95th percentile per-packet one-way delay: 128.355 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 342.35 Mbit/s

95th percentile per-packet one-way delay: 128.355 ms

Loss rate: 0.04%

Run 10: Report of Vivace-LTE — Data Link

