

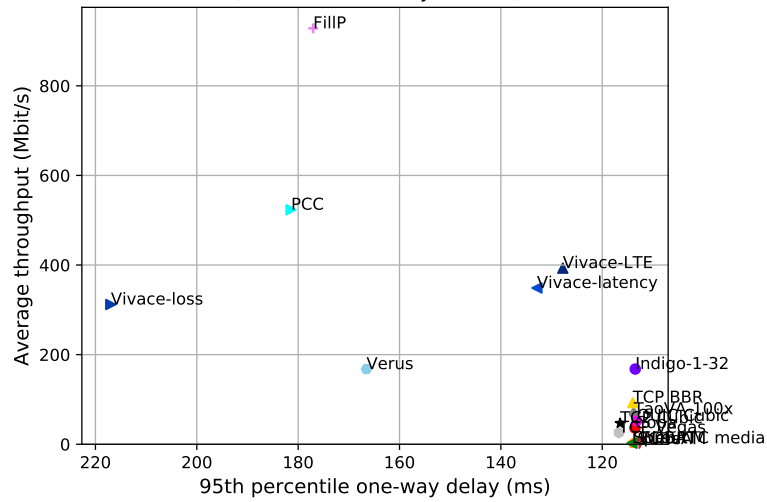
Pantheon Report

Generated at 2018-02-13 03:05:45 (UTC).
Data path: GCE London Ethernet (*local*) → GCE Tokyo Ethernet (*remote*).
Repeated the test of 17 congestion control schemes 10 times.
Each test lasted for 30 seconds running 1 flow.
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo_fast**).

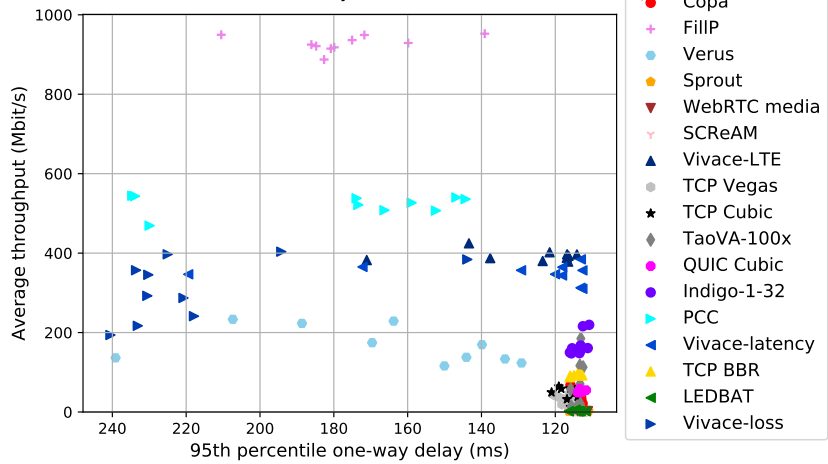
Git summary:

```
branch: master @ 2efdad57c2c56a9458b0d01ff33345e11732665
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ 828bbf95fd4941149b5cec90f281d1c69ae1a5c6
third_party/genericCC @ 80b516c448f795fd6e9675f7177b69c622f07da8
third_party/indigo @ a9b2060d39e4da2e8987e893e3eca2a6c7cd0ab9
third_party/indigo-1-layer-128-unit @ 3ae9e4ef4230db7484501f82ce8b377695f2f66d
third_party/indigo-1-layer-32-unit @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/indigo-1-layer-32-unit-no-calib @ 1f3a7f75b41135ed5b540c0fd3505939528e2a5f
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ fb1053193c2861da659ba9013db26744ccfcf993
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eae30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/vivace @ 7a4ba531e75b4a6f66f5c4580192120401784ce3
third_party/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

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



test from GCE London Ethernet to GCE Tokyo 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	92.83	113.99	0.01
TCP Cubic	10	46.97	116.48	0.04
LEDBAT	10	2.23	114.17	0.34
PCC	10	523.45	181.40	1.32
QUIC Cubic	8	52.09	113.17	0.00
SCReAM	10	0.21	113.05	0.00
WebRTC media	10	2.18	112.68	0.00
Sprout	10	2.45	113.90	0.27
TaoVA-100x	9	67.05	113.79	0.00
TCP Vegas	10	25.83	116.72	0.13
Verus	10	167.64	166.53	0.28
Copa	10	36.22	113.55	0.00
FillP	10	928.30	177.04	1.28
Indigo-1-32	10	167.83	113.49	0.04
Vivace-latency	10	348.75	132.90	0.34
Vivace-loss	10	311.87	216.96	2.64
Vivace-LTE	10	393.14	127.78	0.14

Run 1: Statistics of TCP BBR

Start at: 2018-02-12 21:58:26

End at: 2018-02-12 21:58:56

Below is generated by plot.py at 2018-02-13 01:53:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.71 Mbit/s

95th percentile per-packet one-way delay: 114.930 ms

Loss rate: 0.00%

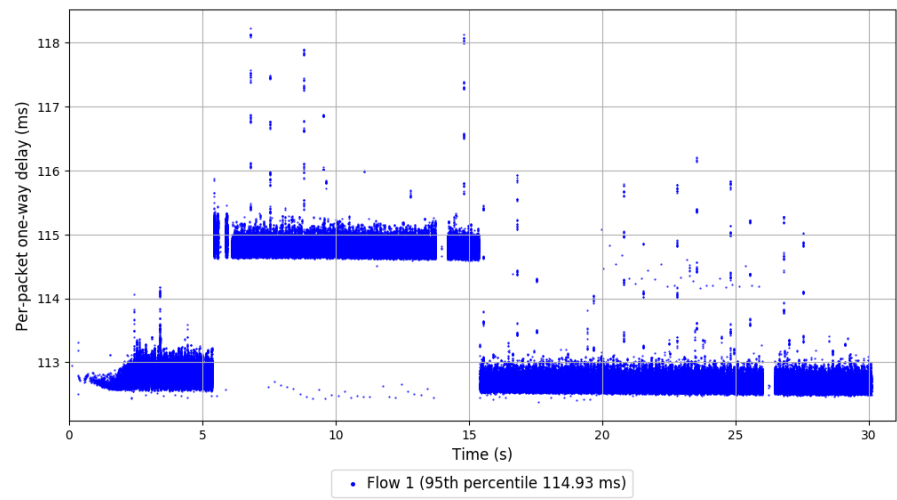
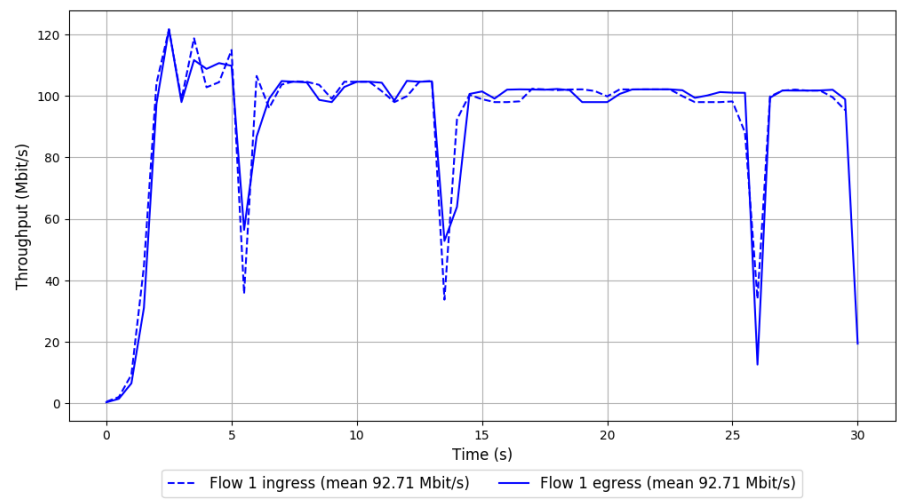
-- Flow 1:

Average throughput: 92.71 Mbit/s

95th percentile per-packet one-way delay: 114.930 ms

Loss rate: 0.00%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-02-12 22:13:41

End at: 2018-02-12 22:14:11

Below is generated by plot.py at 2018-02-13 01:53:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.95 Mbit/s

95th percentile per-packet one-way delay: 113.952 ms

Loss rate: 0.00%

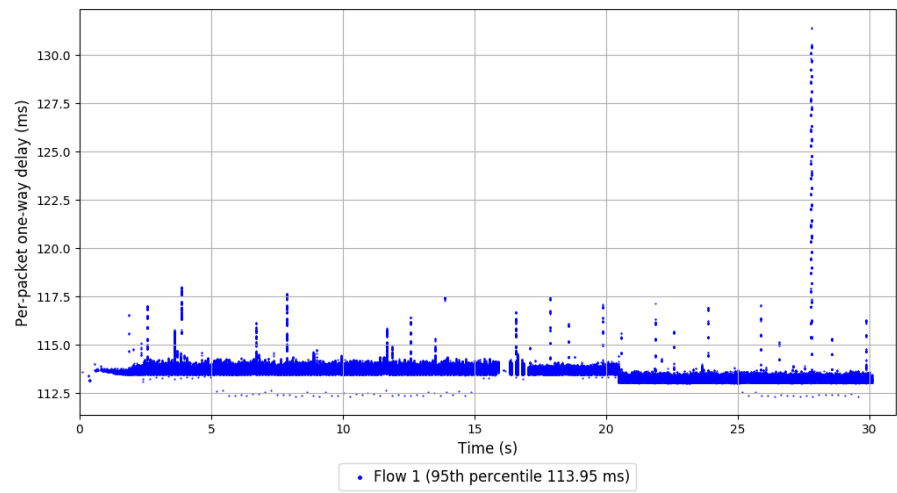
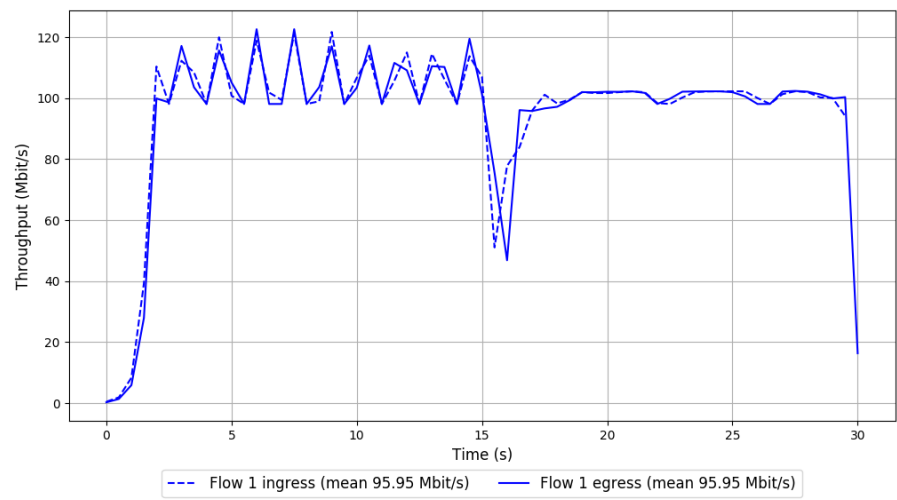
-- Flow 1:

Average throughput: 95.95 Mbit/s

95th percentile per-packet one-way delay: 113.952 ms

Loss rate: 0.00%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-02-12 22:29:23

End at: 2018-02-12 22:29:53

Below is generated by plot.py at 2018-02-13 01:53:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.31 Mbit/s

95th percentile per-packet one-way delay: 113.462 ms

Loss rate: 0.00%

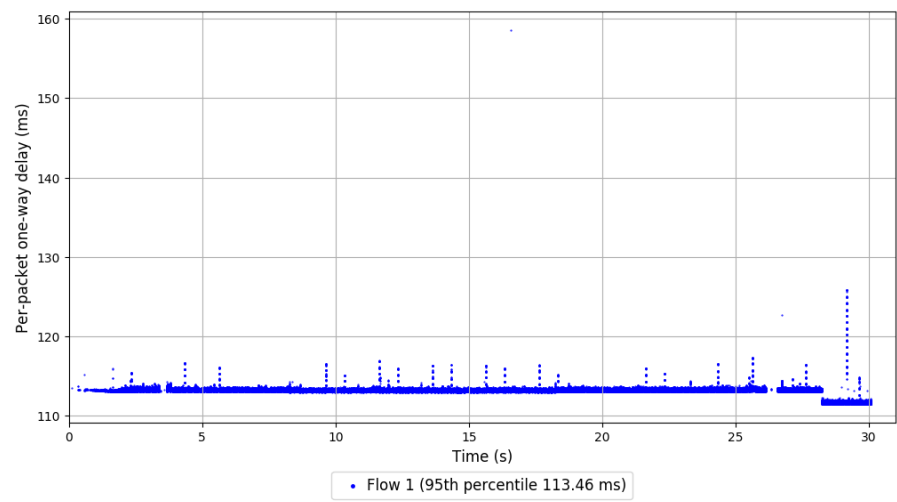
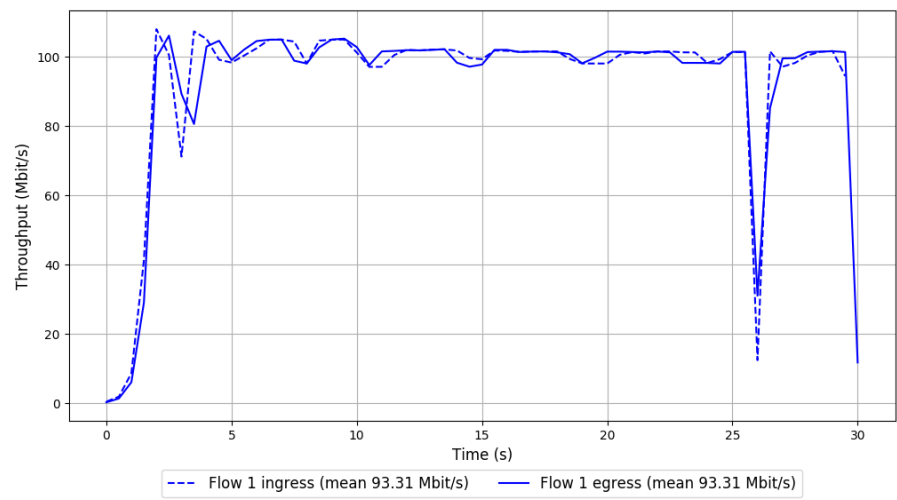
-- Flow 1:

Average throughput: 93.31 Mbit/s

95th percentile per-packet one-way delay: 113.462 ms

Loss rate: 0.00%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-02-12 22:44:45

End at: 2018-02-12 22:45:15

Below is generated by plot.py at 2018-02-13 01:53:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.71 Mbit/s

95th percentile per-packet one-way delay: 113.387 ms

Loss rate: 0.00%

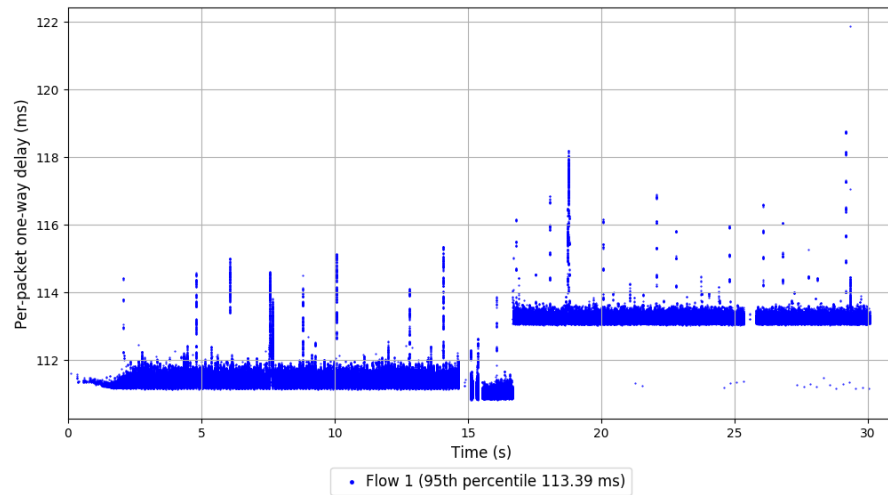
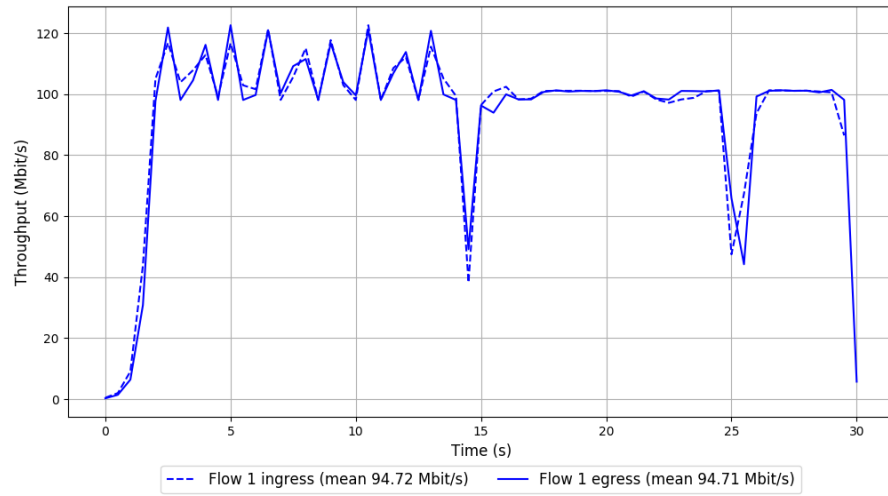
-- Flow 1:

Average throughput: 94.71 Mbit/s

95th percentile per-packet one-way delay: 113.387 ms

Loss rate: 0.00%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-02-12 23:00:18

End at: 2018-02-12 23:00:48

Below is generated by plot.py at 2018-02-13 01:53:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.32 Mbit/s

95th percentile per-packet one-way delay: 113.414 ms

Loss rate: 0.00%

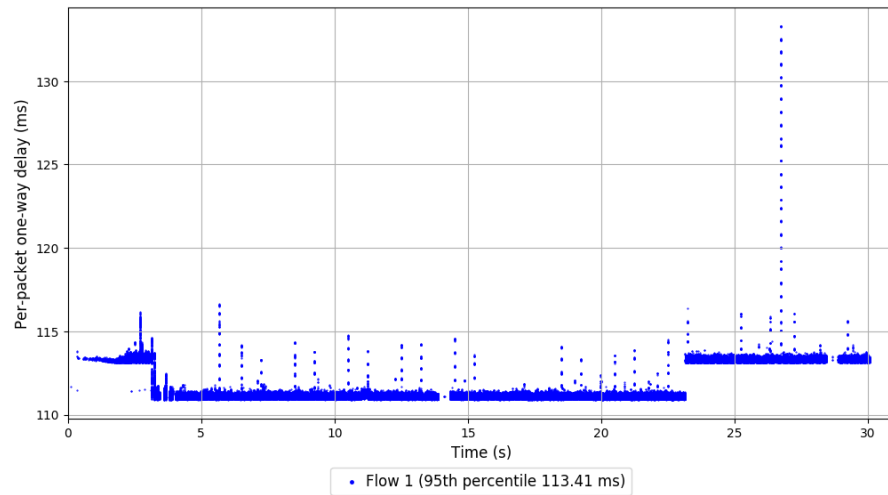
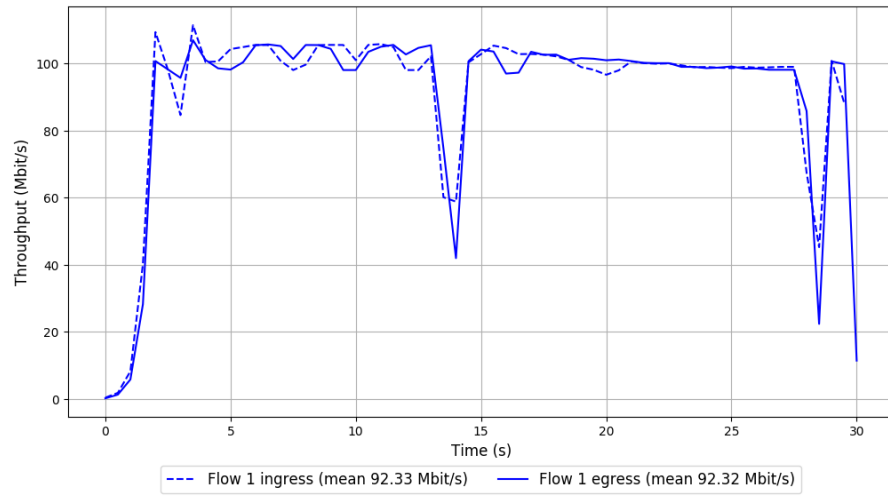
-- Flow 1:

Average throughput: 92.32 Mbit/s

95th percentile per-packet one-way delay: 113.414 ms

Loss rate: 0.00%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-02-12 23:15:56

End at: 2018-02-12 23:16:26

Below is generated by plot.py at 2018-02-13 01:53:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.57 Mbit/s

95th percentile per-packet one-way delay: 115.923 ms

Loss rate: 0.11%

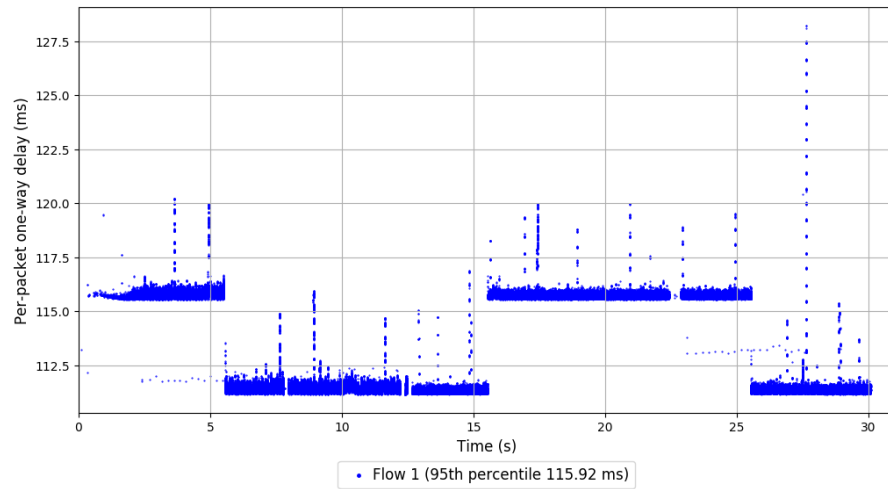
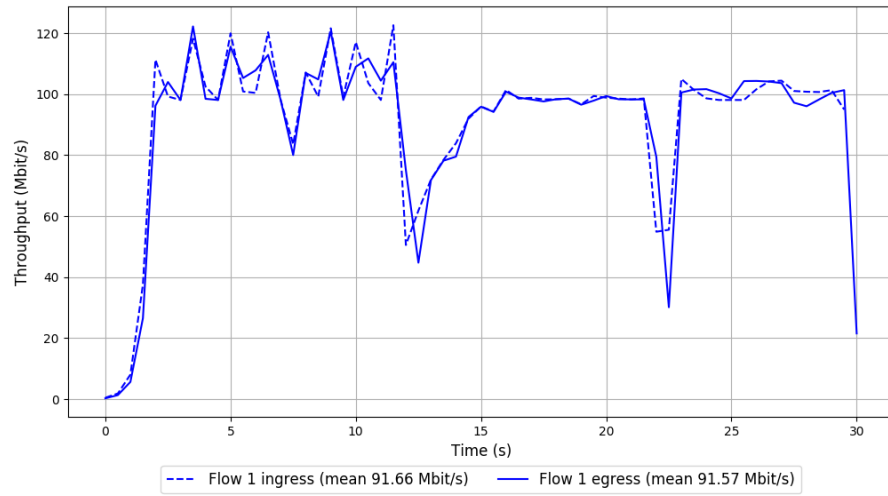
-- Flow 1:

Average throughput: 91.57 Mbit/s

95th percentile per-packet one-way delay: 115.923 ms

Loss rate: 0.11%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-02-12 23:31:14

End at: 2018-02-12 23:31:44

Below is generated by plot.py at 2018-02-13 01:53:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.53 Mbit/s

95th percentile per-packet one-way delay: 116.139 ms

Loss rate: 0.00%

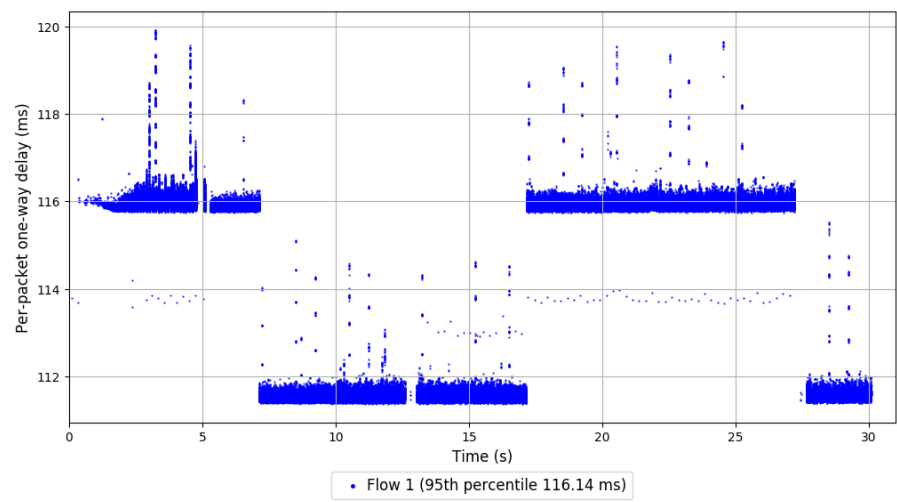
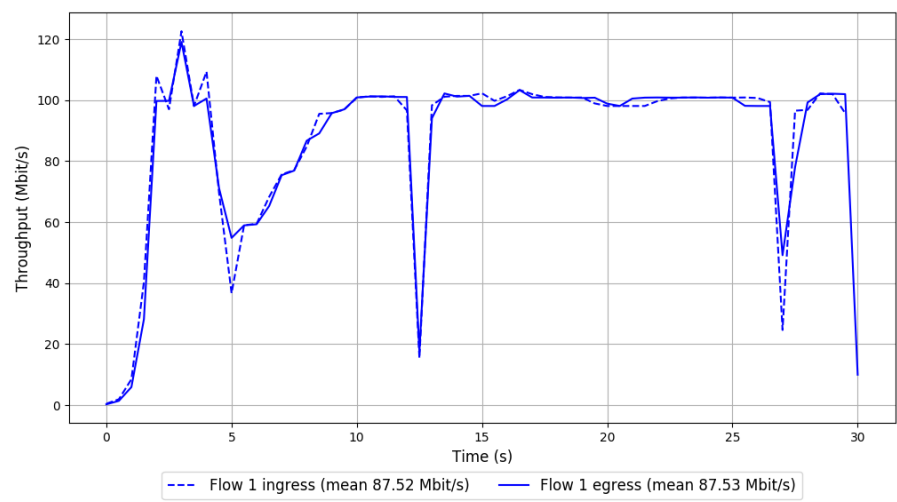
-- Flow 1:

Average throughput: 87.53 Mbit/s

95th percentile per-packet one-way delay: 116.139 ms

Loss rate: 0.00%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-02-12 23:46:48

End at: 2018-02-12 23:47:18

Below is generated by plot.py at 2018-02-13 01:53:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.61 Mbit/s

95th percentile per-packet one-way delay: 112.883 ms

Loss rate: 0.00%

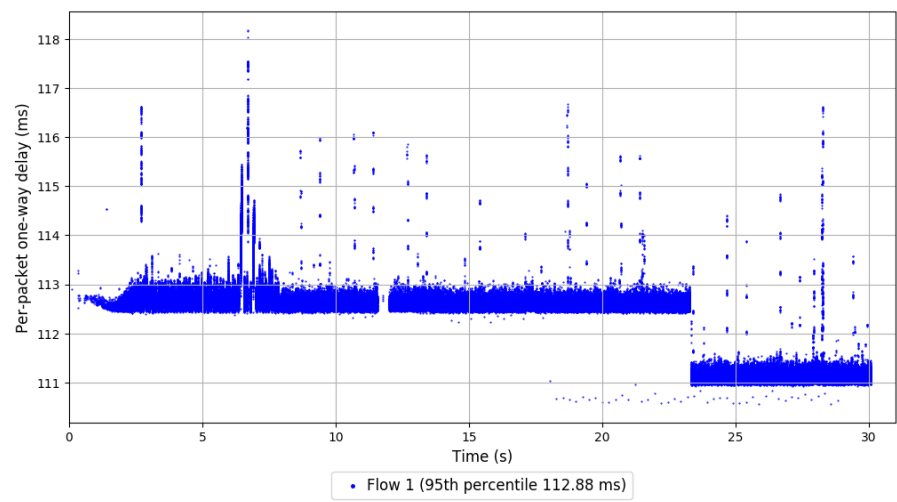
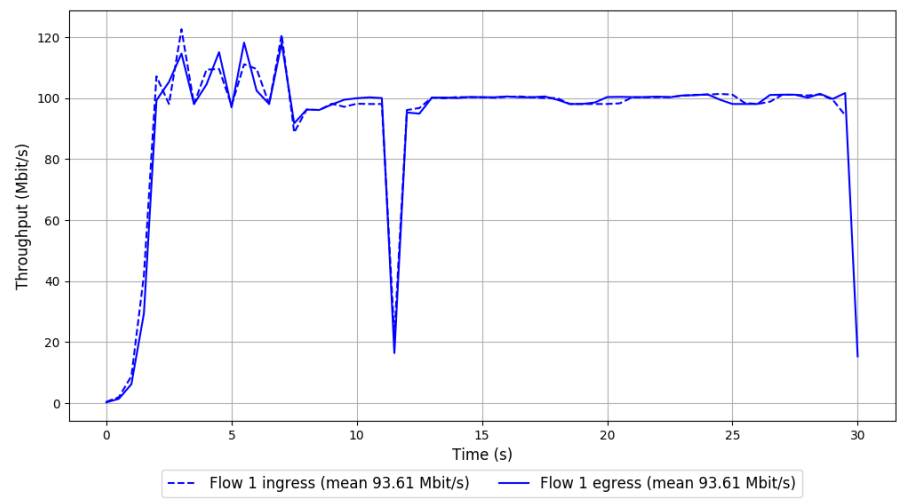
-- Flow 1:

Average throughput: 93.61 Mbit/s

95th percentile per-packet one-way delay: 112.883 ms

Loss rate: 0.00%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-02-13 00:02:17

End at: 2018-02-13 00:02:47

Below is generated by plot.py at 2018-02-13 01:54:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.38 Mbit/s

95th percentile per-packet one-way delay: 112.675 ms

Loss rate: 0.01%

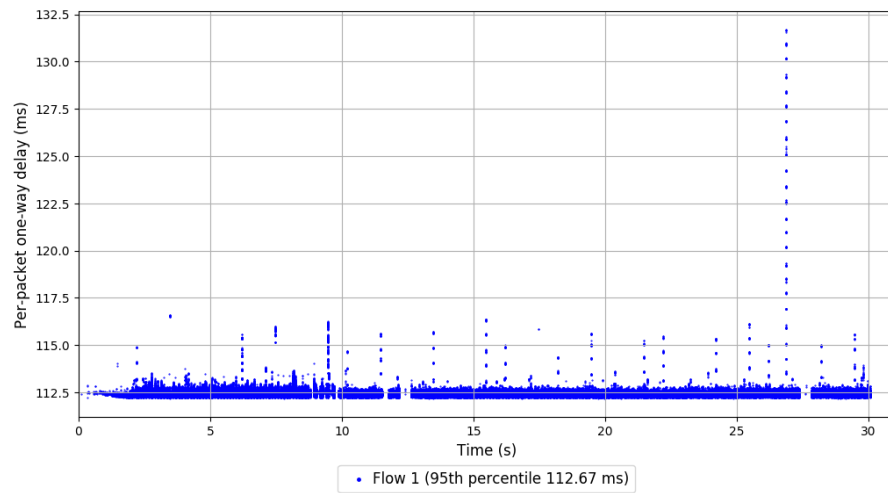
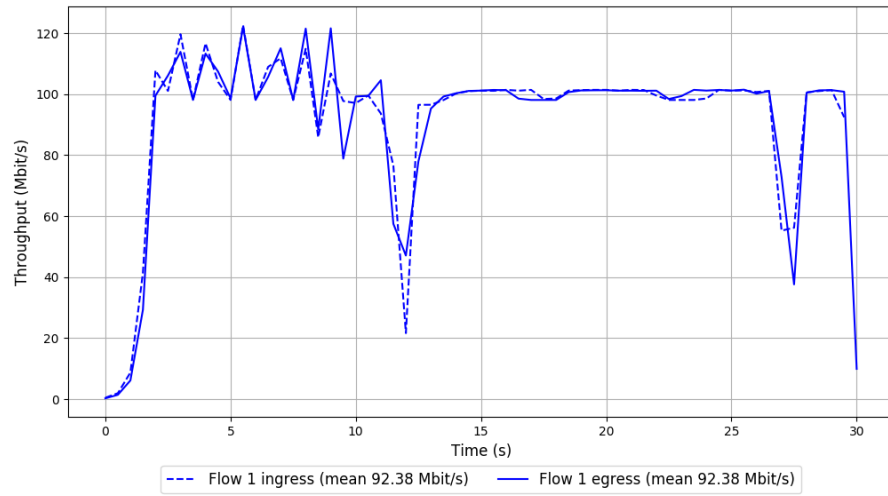
-- Flow 1:

Average throughput: 92.38 Mbit/s

95th percentile per-packet one-way delay: 112.675 ms

Loss rate: 0.01%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-02-13 00:17:39

End at: 2018-02-13 00:18:09

Below is generated by plot.py at 2018-02-13 01:54:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.26 Mbit/s

95th percentile per-packet one-way delay: 113.090 ms

Loss rate: 0.01%

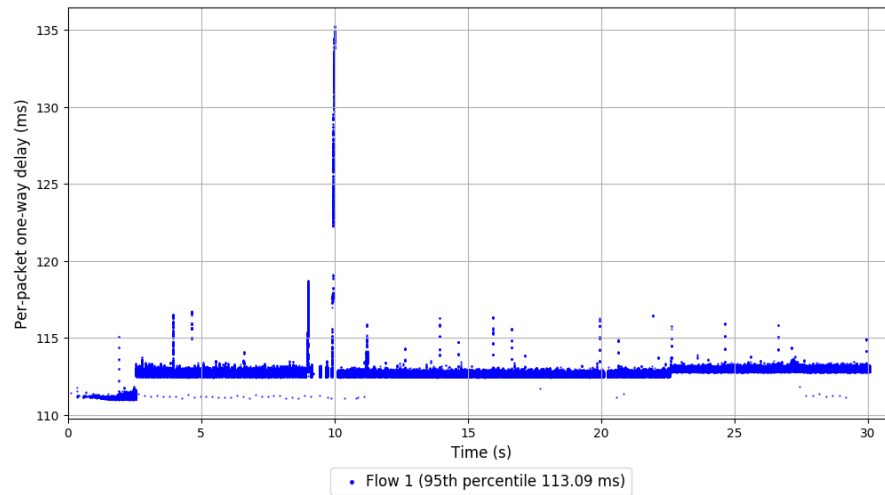
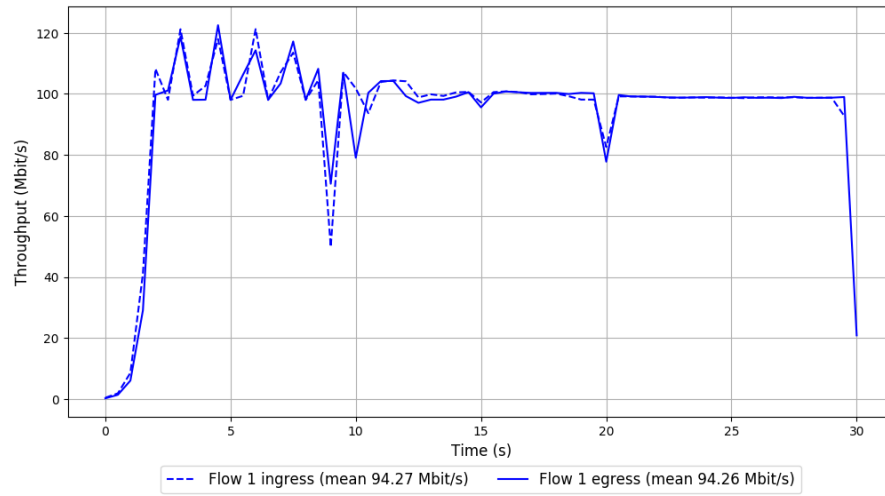
-- Flow 1:

Average throughput: 94.26 Mbit/s

95th percentile per-packet one-way delay: 113.090 ms

Loss rate: 0.01%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-02-12 21:55:38

End at: 2018-02-12 21:56:08

Below is generated by plot.py at 2018-02-13 01:54:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.58 Mbit/s

95th percentile per-packet one-way delay: 115.833 ms

Loss rate: 0.12%

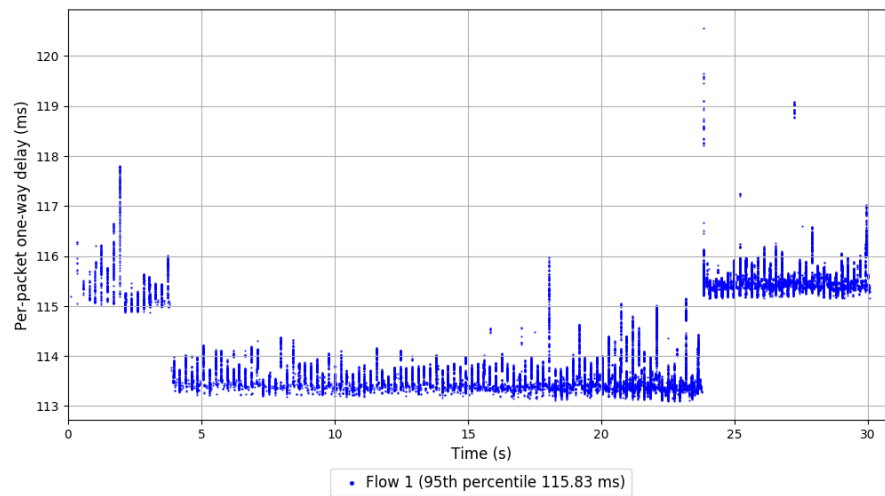
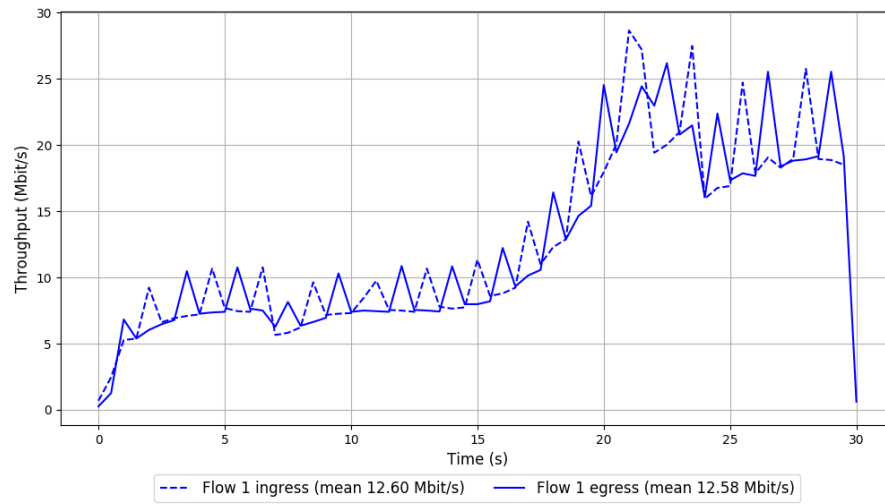
-- Flow 1:

Average throughput: 12.58 Mbit/s

95th percentile per-packet one-way delay: 115.833 ms

Loss rate: 0.12%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-02-12 22:10:58

End at: 2018-02-12 22:11:28

Below is generated by plot.py at 2018-02-13 01:54:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 58.66 Mbit/s

95th percentile per-packet one-way delay: 118.395 ms

Loss rate: 0.02%

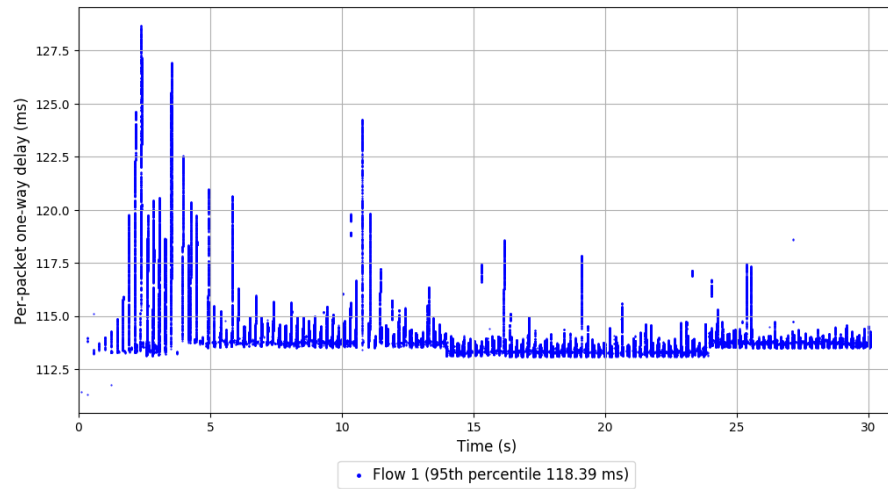
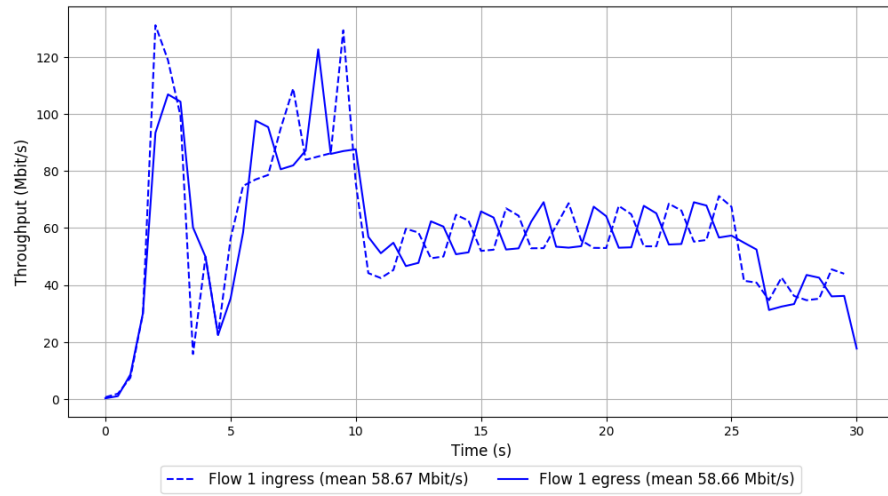
-- Flow 1:

Average throughput: 58.66 Mbit/s

95th percentile per-packet one-way delay: 118.395 ms

Loss rate: 0.02%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-02-12 22:26:27

End at: 2018-02-12 22:26:57

Below is generated by plot.py at 2018-02-13 01:54:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 55.76 Mbit/s

95th percentile per-packet one-way delay: 114.596 ms

Loss rate: 0.01%

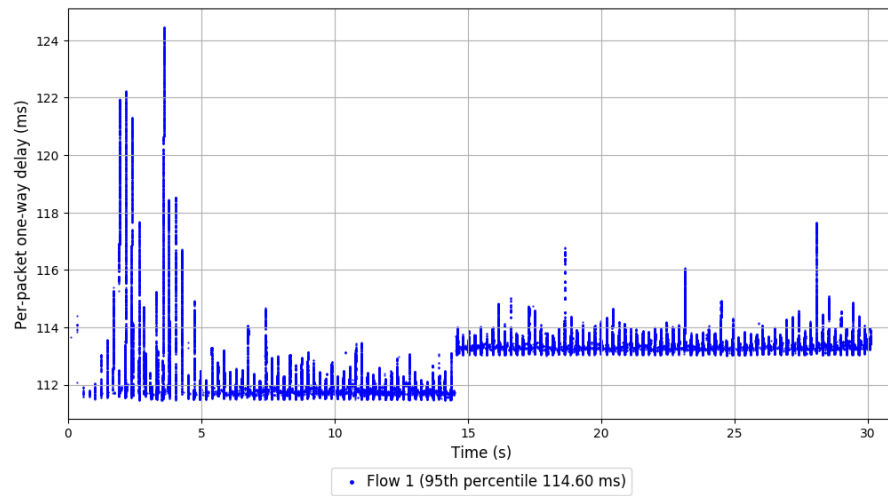
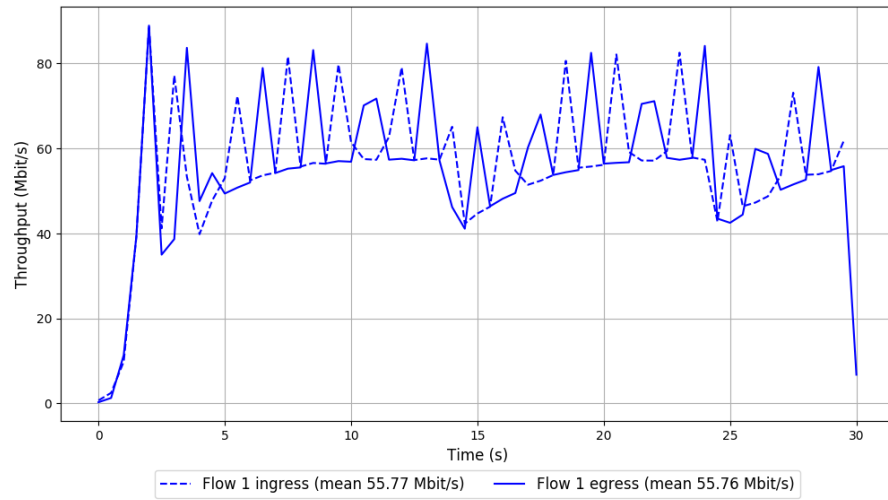
-- Flow 1:

Average throughput: 55.76 Mbit/s

95th percentile per-packet one-way delay: 114.596 ms

Loss rate: 0.01%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-02-12 22:42:04

End at: 2018-02-12 22:42:34

Below is generated by plot.py at 2018-02-13 01:54:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 52.62 Mbit/s

95th percentile per-packet one-way delay: 114.217 ms

Loss rate: 0.00%

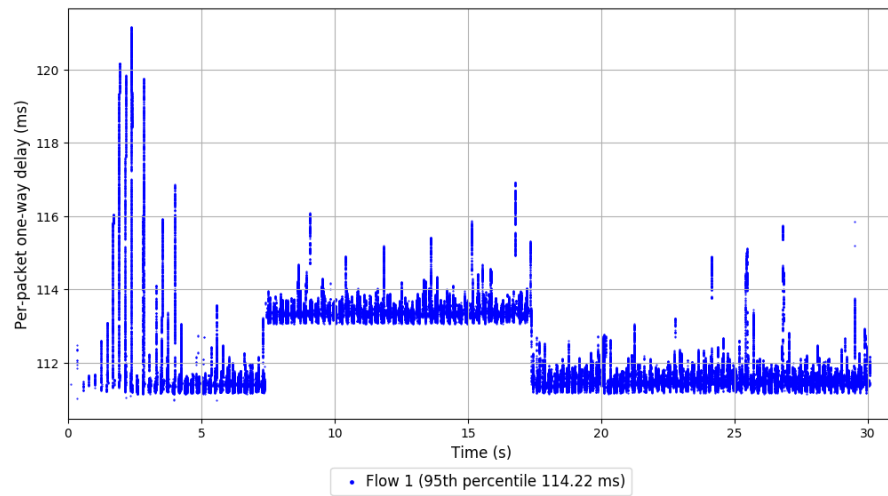
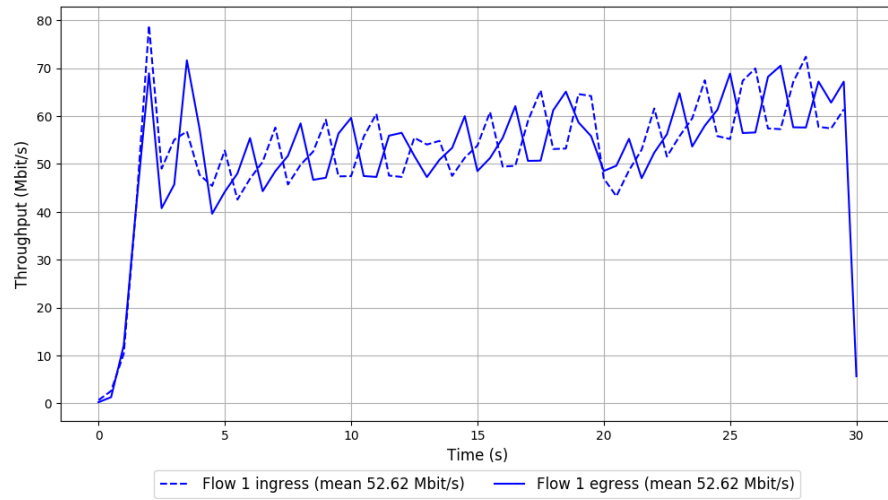
-- Flow 1:

Average throughput: 52.62 Mbit/s

95th percentile per-packet one-way delay: 114.217 ms

Loss rate: 0.00%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-02-12 22:57:26

End at: 2018-02-12 22:57:56

Below is generated by plot.py at 2018-02-13 01:54:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 46.33 Mbit/s

95th percentile per-packet one-way delay: 114.969 ms

Loss rate: 0.01%

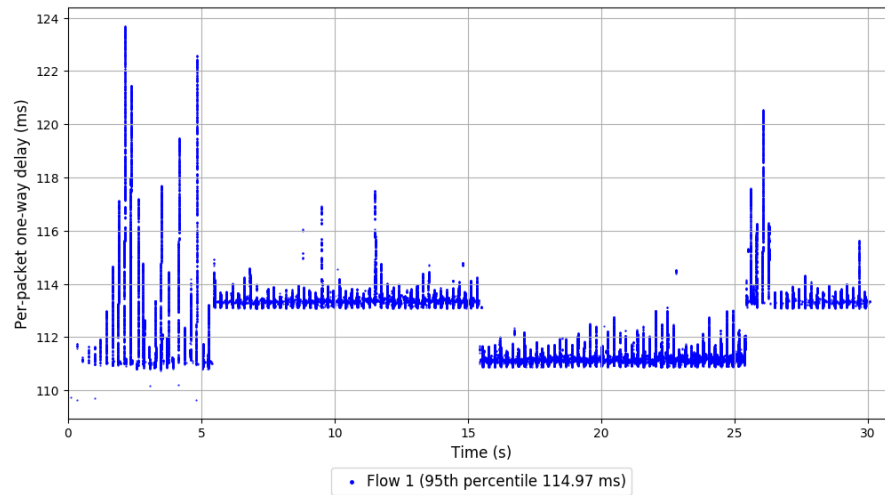
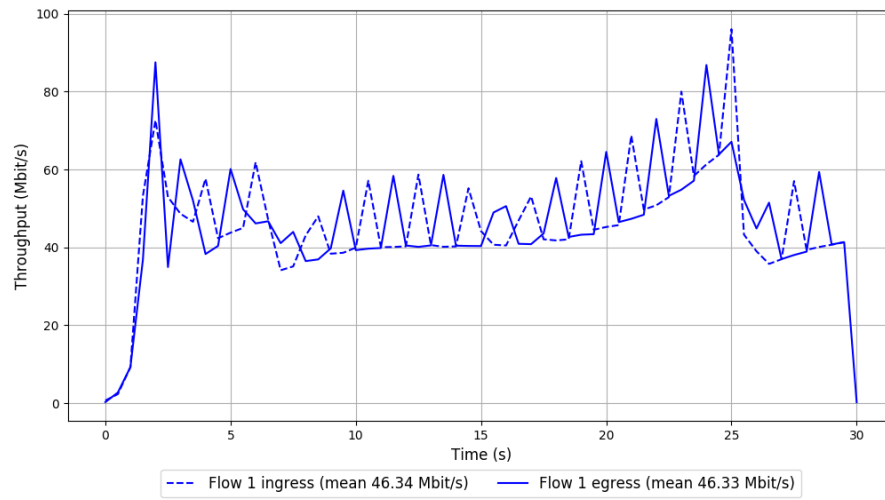
-- Flow 1:

Average throughput: 46.33 Mbit/s

95th percentile per-packet one-way delay: 114.969 ms

Loss rate: 0.01%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-02-12 23:13:02

End at: 2018-02-12 23:13:32

Below is generated by plot.py at 2018-02-13 01:54:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 32.34 Mbit/s

95th percentile per-packet one-way delay: 116.826 ms

Loss rate: 0.04%

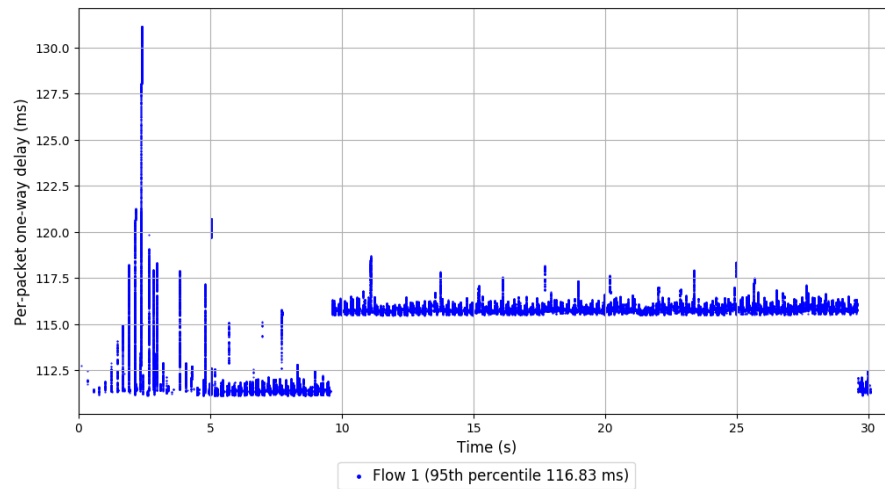
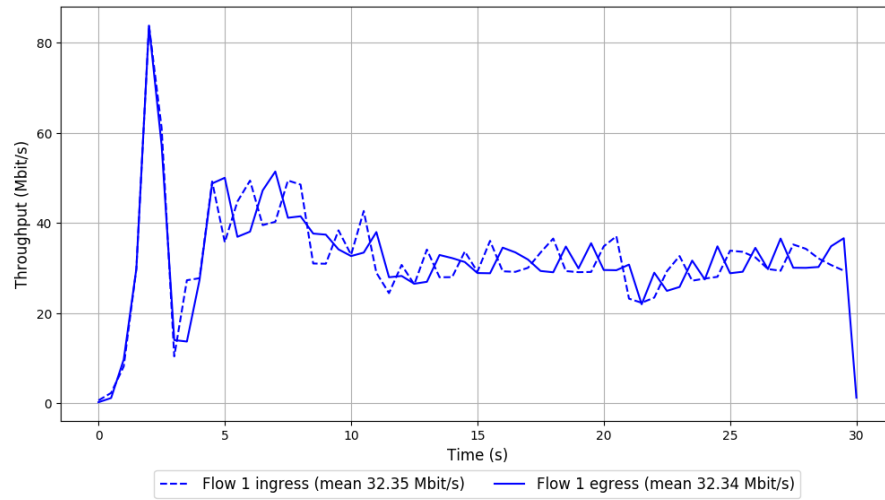
-- Flow 1:

Average throughput: 32.34 Mbit/s

95th percentile per-packet one-way delay: 116.826 ms

Loss rate: 0.04%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-02-12 23:28:30

End at: 2018-02-12 23:29:00

Below is generated by plot.py at 2018-02-13 01:54:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 49.43 Mbit/s

95th percentile per-packet one-way delay: 121.011 ms

Loss rate: 0.10%

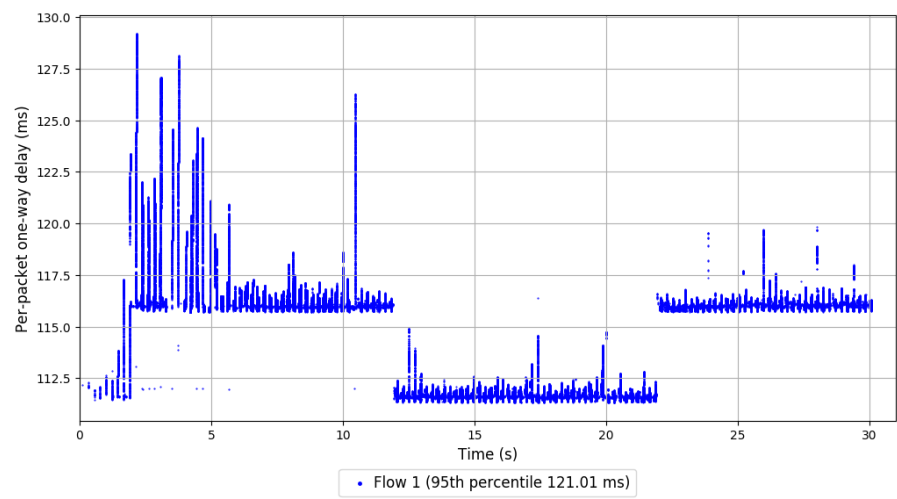
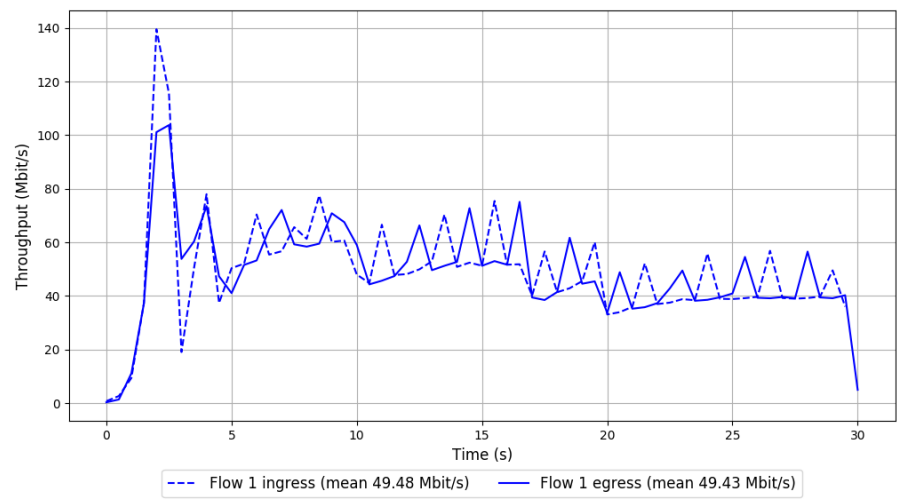
-- Flow 1:

Average throughput: 49.43 Mbit/s

95th percentile per-packet one-way delay: 121.011 ms

Loss rate: 0.10%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-02-12 23:43:52

End at: 2018-02-12 23:44:22

Below is generated by plot.py at 2018-02-13 01:54:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 59.36 Mbit/s

95th percentile per-packet one-way delay: 115.924 ms

Loss rate: 0.01%

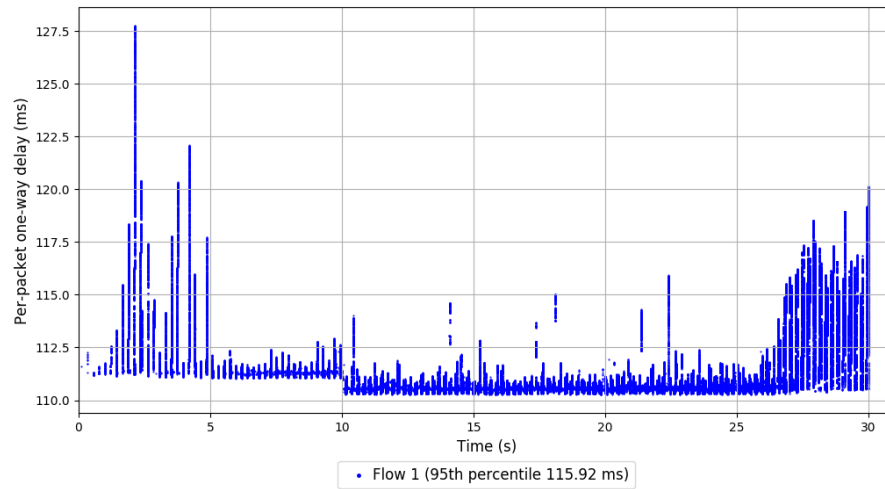
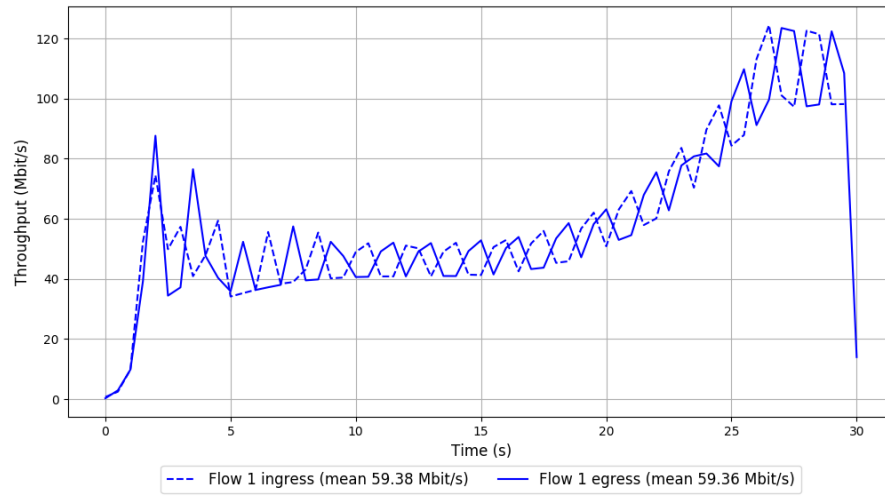
-- Flow 1:

Average throughput: 59.36 Mbit/s

95th percentile per-packet one-way delay: 115.924 ms

Loss rate: 0.01%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-02-12 23:59:32

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

Below is generated by plot.py at 2018-02-13 01:54:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 38.47 Mbit/s

95th percentile per-packet one-way delay: 113.930 ms

Loss rate: 0.09%

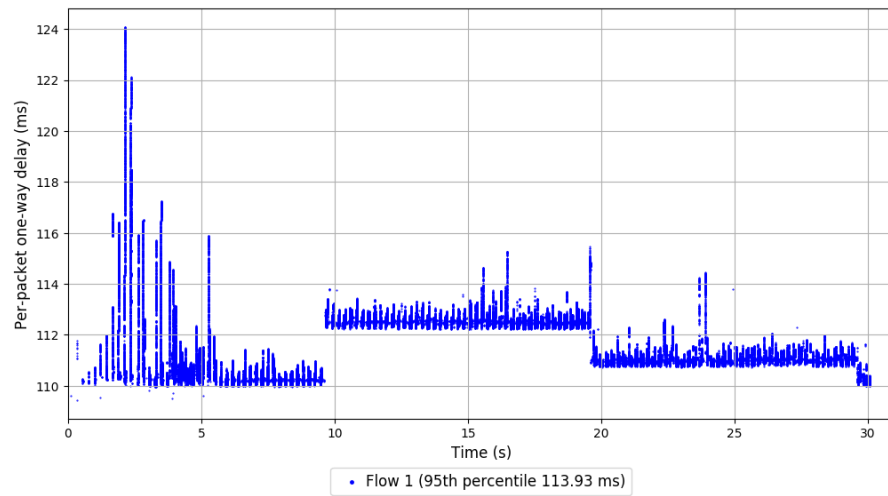
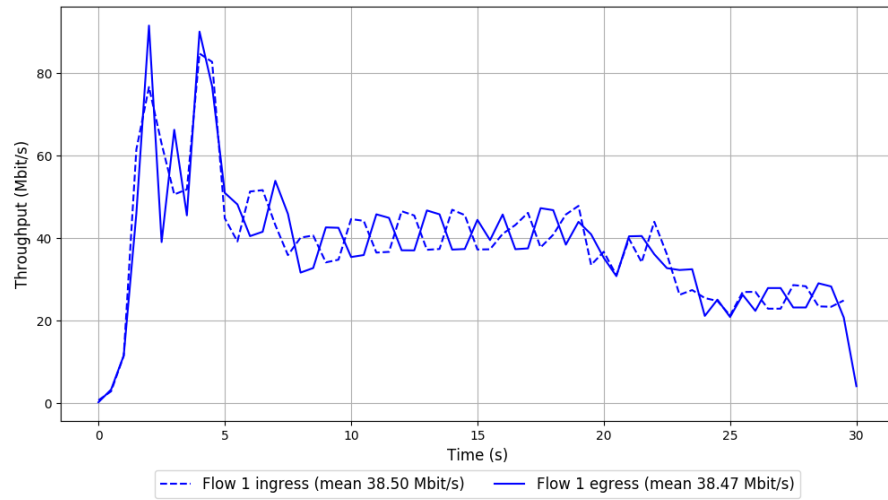
-- Flow 1:

Average throughput: 38.47 Mbit/s

95th percentile per-packet one-way delay: 113.930 ms

Loss rate: 0.09%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-02-13 00:14:50

End at: 2018-02-13 00:15:20

Below is generated by plot.py at 2018-02-13 01:55:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.19 Mbit/s

95th percentile per-packet one-way delay: 119.068 ms

Loss rate: 0.00%

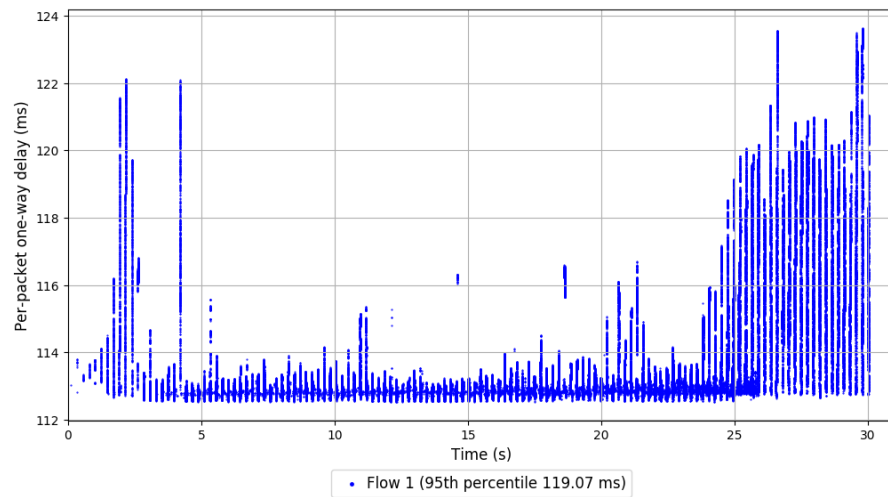
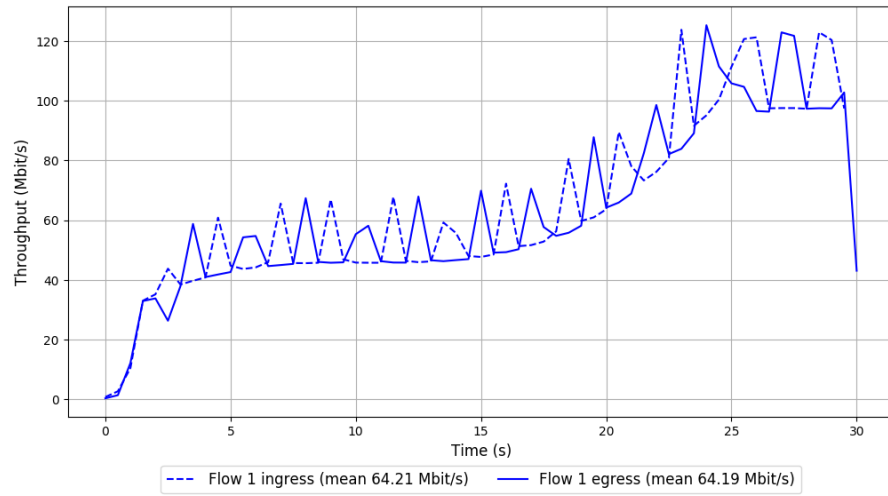
-- Flow 1:

Average throughput: 64.19 Mbit/s

95th percentile per-packet one-way delay: 119.068 ms

Loss rate: 0.00%

Run 10: Report of TCP Cubic — Data Link

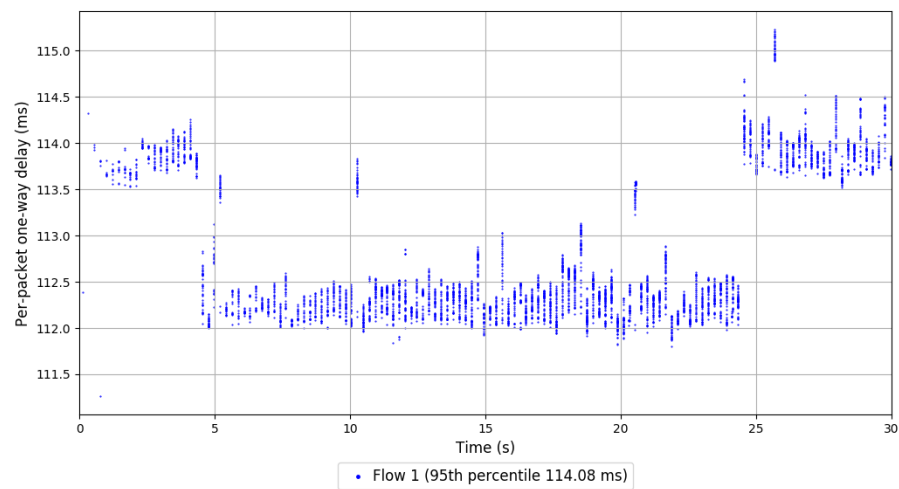
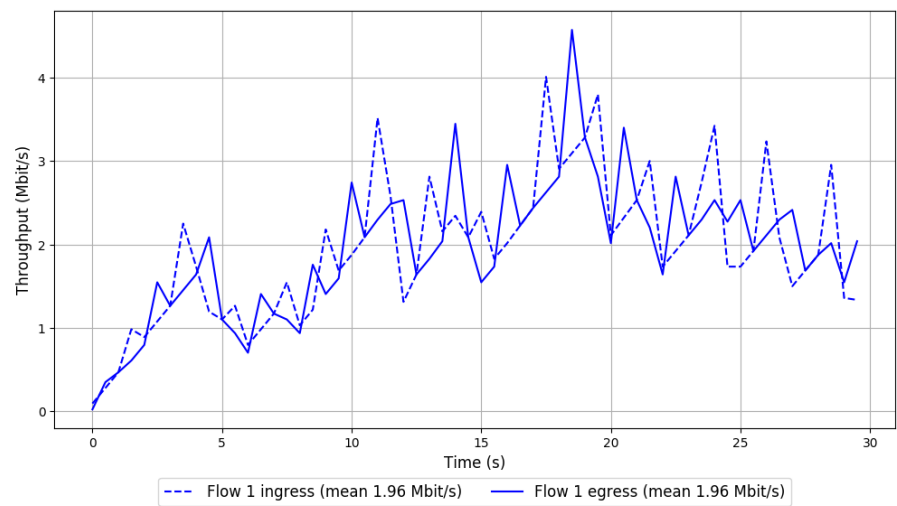


```
Run 1: Statistics of LEDBAT

Start at: 2018-02-12 22:03:57
End at: 2018-02-12 22:04:27

# Below is generated by plot.py at 2018-02-13 01:55:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.96 Mbit/s
95th percentile per-packet one-way delay: 114.081 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 1.96 Mbit/s
95th percentile per-packet one-way delay: 114.081 ms
Loss rate: 0.12%
```

Run 1: Report of LEDBAT — Data Link

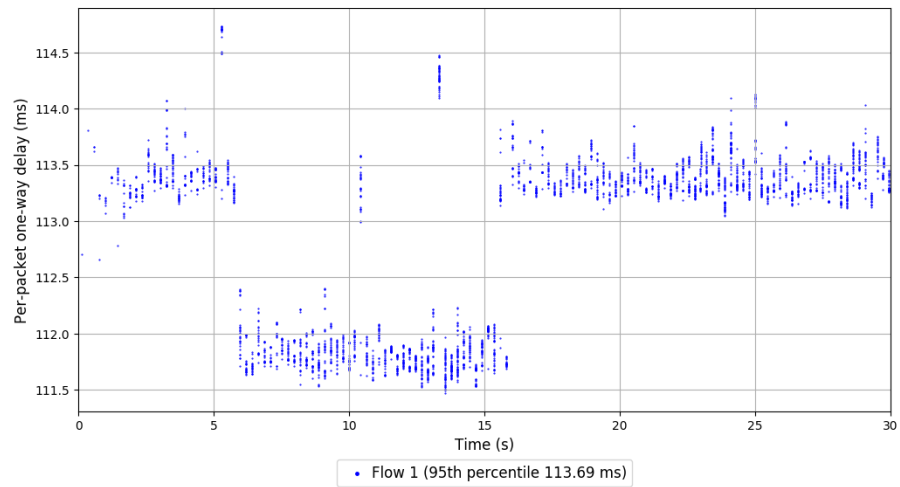
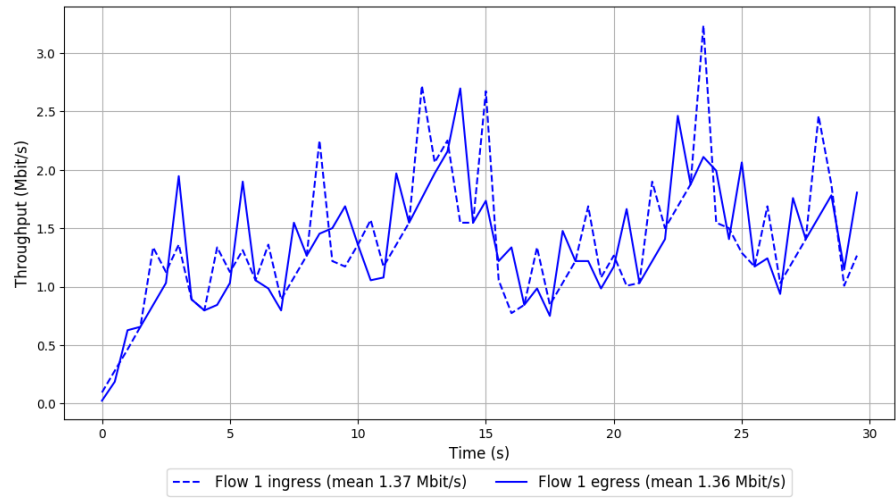


```
Run 2: Statistics of LEDBAT

Start at: 2018-02-12 22:19:26
End at: 2018-02-12 22:19:56

# Below is generated by plot.py at 2018-02-13 01:55:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.36 Mbit/s
95th percentile per-packet one-way delay: 113.690 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 1.36 Mbit/s
95th percentile per-packet one-way delay: 113.690 ms
Loss rate: 0.60%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-02-12 22:34:56

End at: 2018-02-12 22:35:26

Below is generated by plot.py at 2018-02-13 01:55:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.67 Mbit/s

95th percentile per-packet one-way delay: 114.422 ms

Loss rate: 0.47%

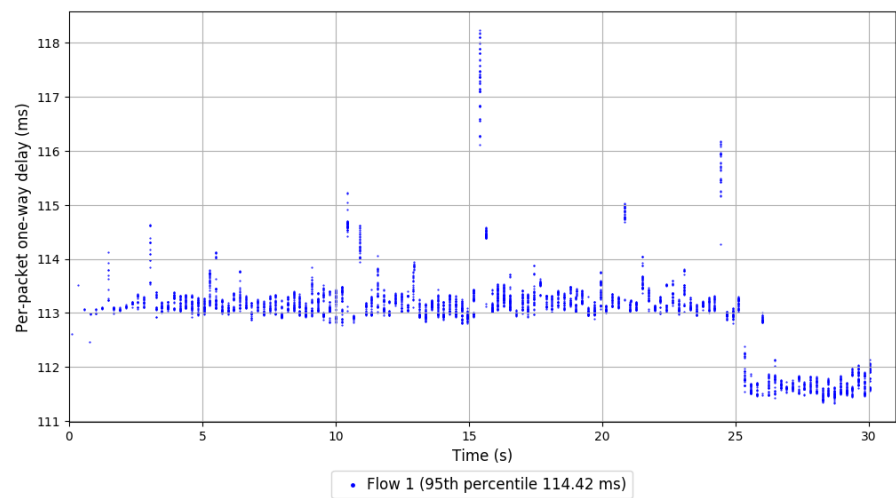
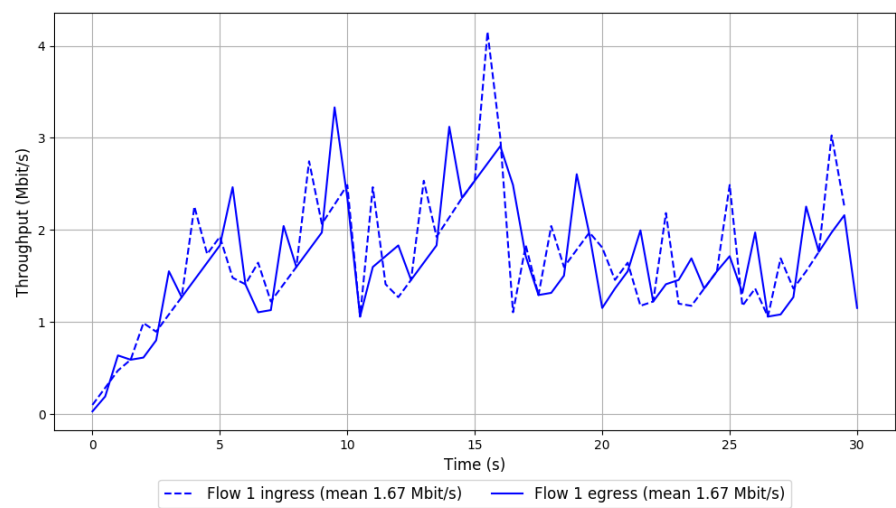
-- Flow 1:

Average throughput: 1.67 Mbit/s

95th percentile per-packet one-way delay: 114.422 ms

Loss rate: 0.47%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-02-12 22:50:19

End at: 2018-02-12 22:50:49

Below is generated by plot.py at 2018-02-13 01:55:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 113.810 ms

Loss rate: 0.25%

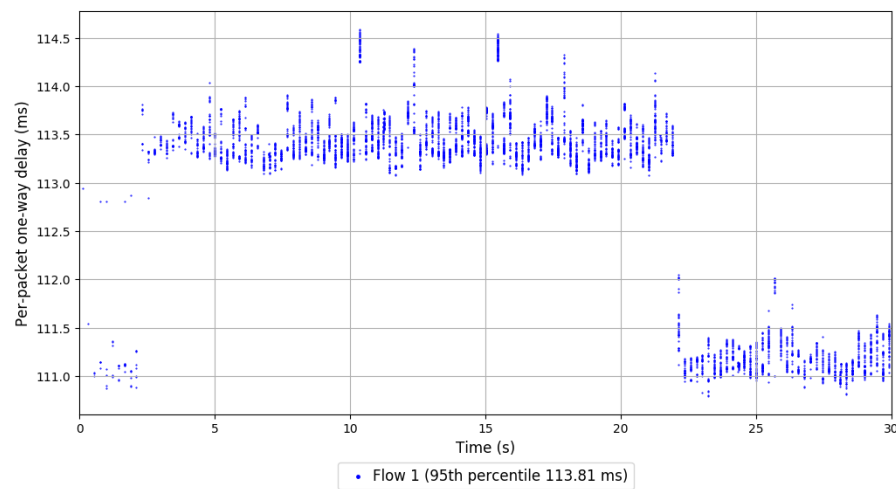
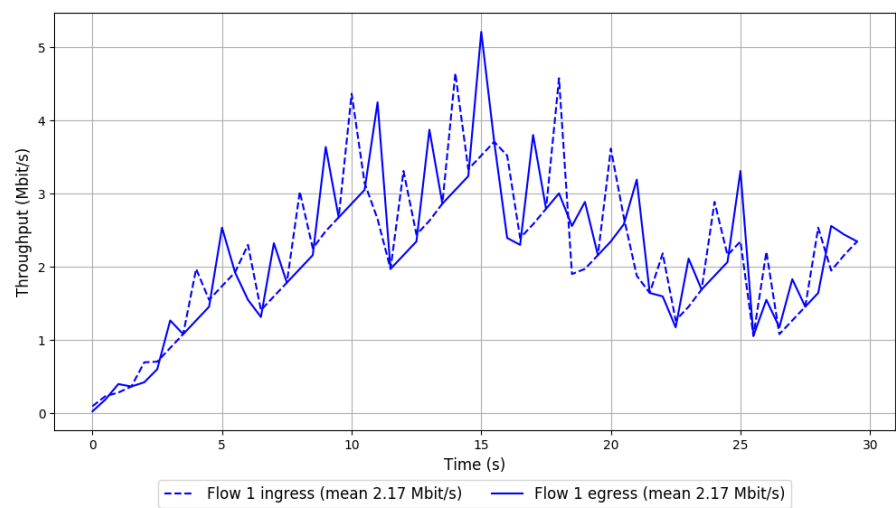
-- Flow 1:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 113.810 ms

Loss rate: 0.25%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-02-12 23:05:55

End at: 2018-02-12 23:06:25

Below is generated by plot.py at 2018-02-13 01:55:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.10 Mbit/s

95th percentile per-packet one-way delay: 114.525 ms

Loss rate: 0.05%

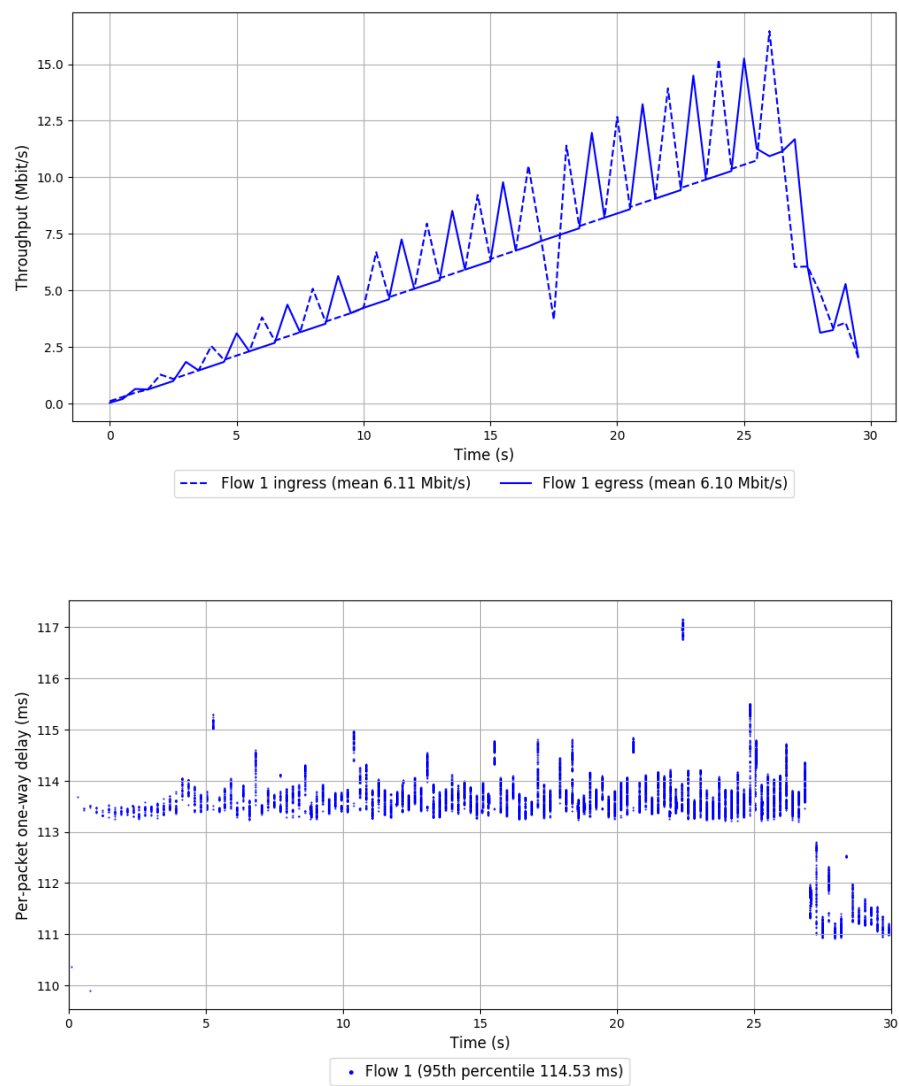
-- Flow 1:

Average throughput: 6.10 Mbit/s

95th percentile per-packet one-way delay: 114.525 ms

Loss rate: 0.05%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-02-12 23:21:26

End at: 2018-02-12 23:21:56

Below is generated by plot.py at 2018-02-13 01:55:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.52 Mbit/s

95th percentile per-packet one-way delay: 116.356 ms

Loss rate: 0.28%

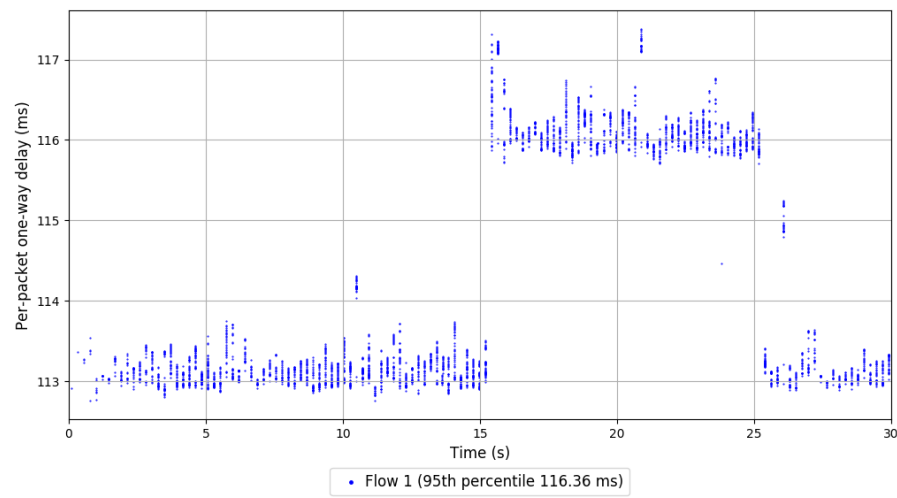
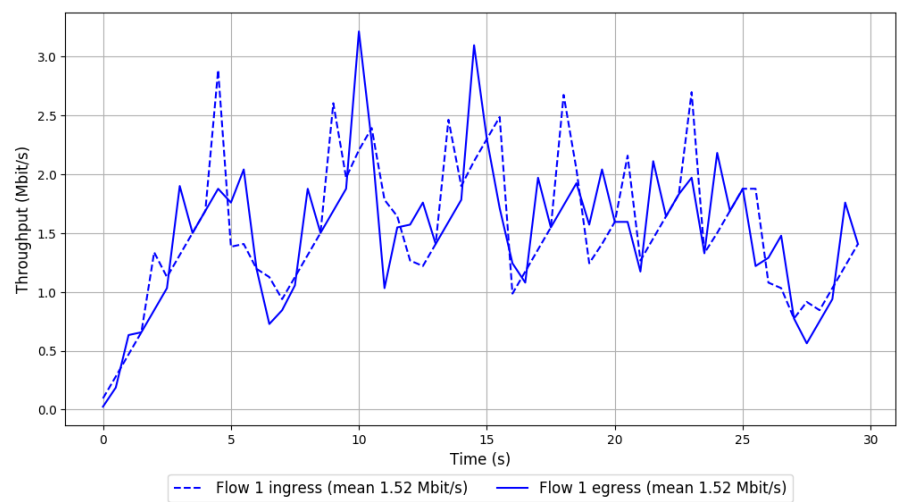
-- Flow 1:

Average throughput: 1.52 Mbit/s

95th percentile per-packet one-way delay: 116.356 ms

Loss rate: 0.28%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-02-12 23:36:48

End at: 2018-02-12 23:37:18

Below is generated by plot.py at 2018-02-13 01:55:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 116.306 ms

Loss rate: 0.03%

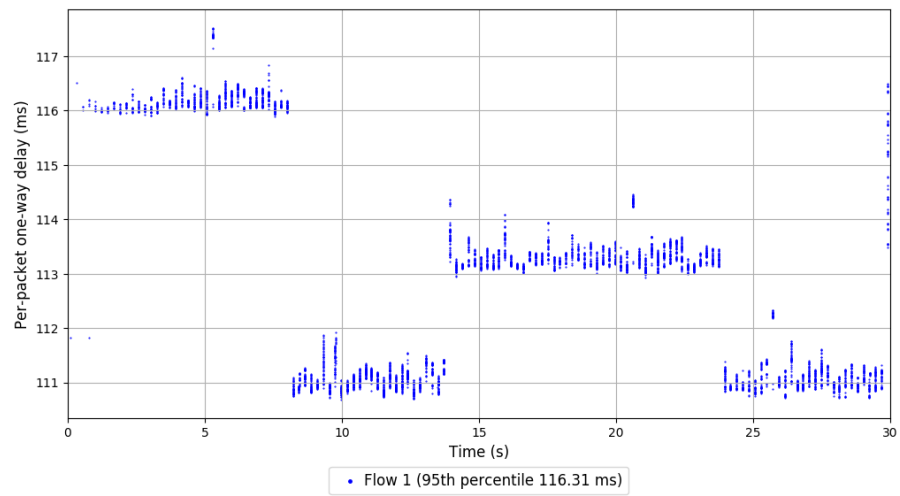
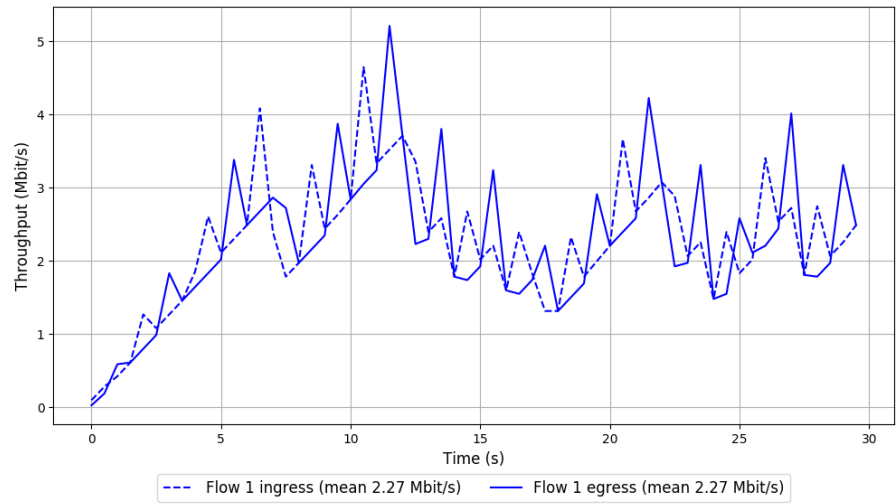
-- Flow 1:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 116.306 ms

Loss rate: 0.03%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-02-12 23:52:30

End at: 2018-02-12 23:53:00

Below is generated by plot.py at 2018-02-13 01:55:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.72 Mbit/s

95th percentile per-packet one-way delay: 111.764 ms

Loss rate: 1.24%

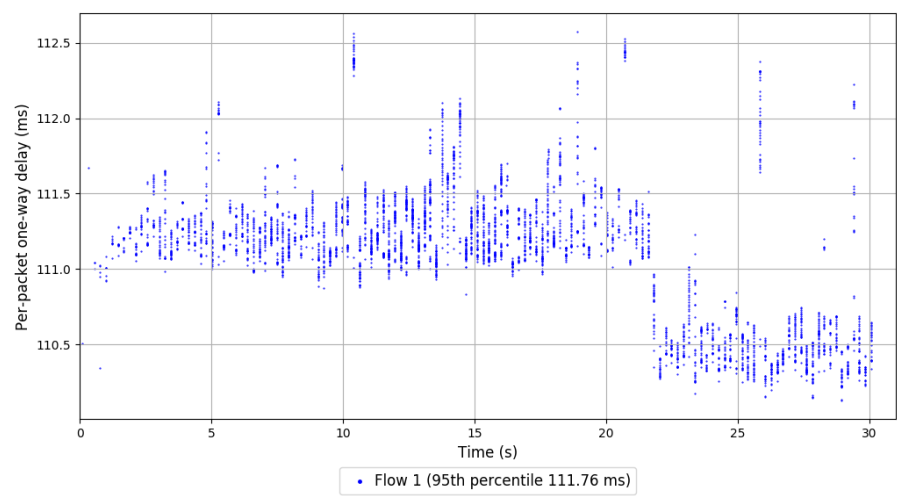
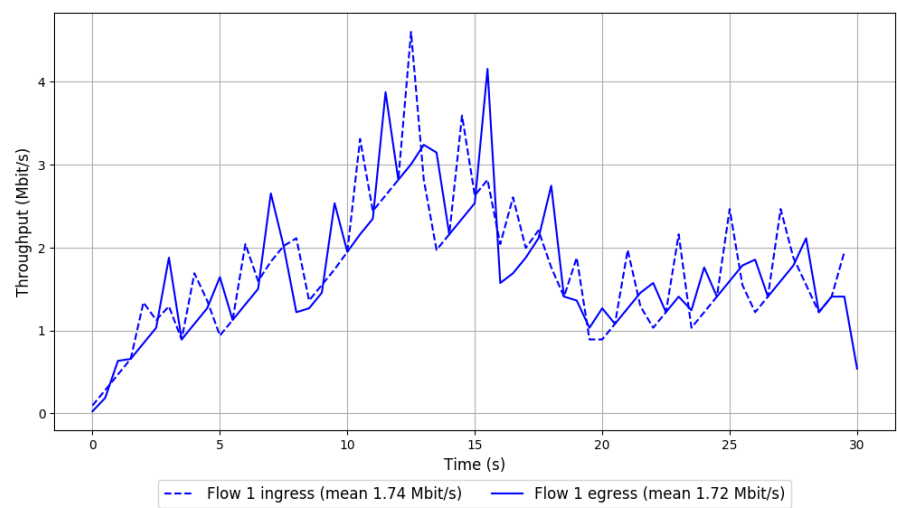
-- Flow 1:

Average throughput: 1.72 Mbit/s

95th percentile per-packet one-way delay: 111.764 ms

Loss rate: 1.24%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-02-13 00:07:48

End at: 2018-02-13 00:08:18

Below is generated by plot.py at 2018-02-13 01:55:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.79 Mbit/s

95th percentile per-packet one-way delay: 113.610 ms

Loss rate: 0.20%

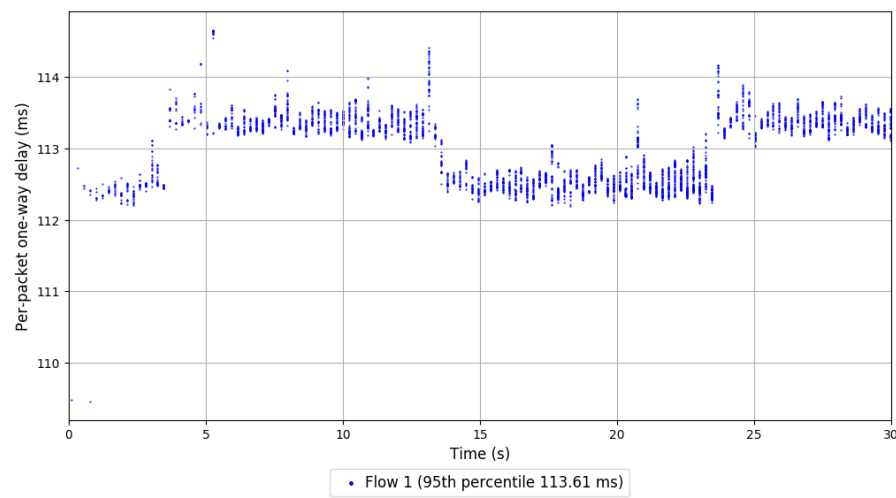
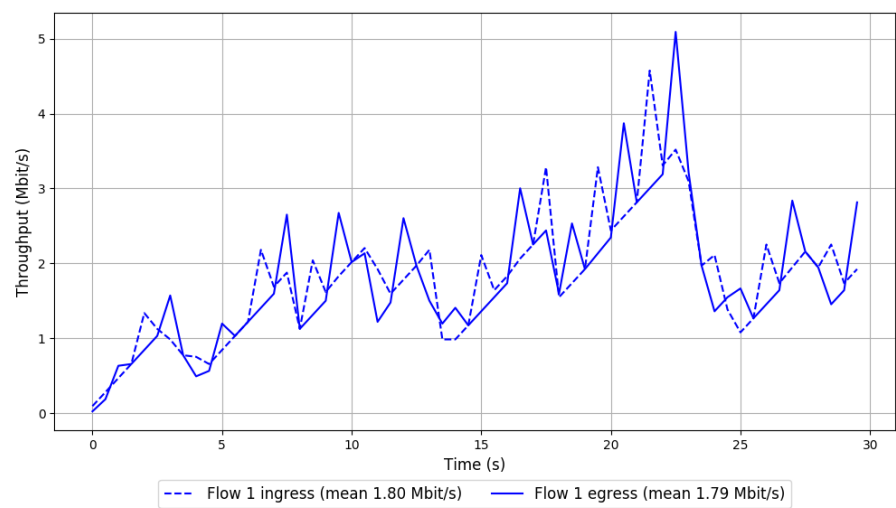
-- Flow 1:

Average throughput: 1.79 Mbit/s

95th percentile per-packet one-way delay: 113.610 ms

Loss rate: 0.20%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-02-13 00:23:28

End at: 2018-02-13 00:23:58

Below is generated by plot.py at 2018-02-13 01:55:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.71 Mbit/s

95th percentile per-packet one-way delay: 113.155 ms

Loss rate: 0.11%

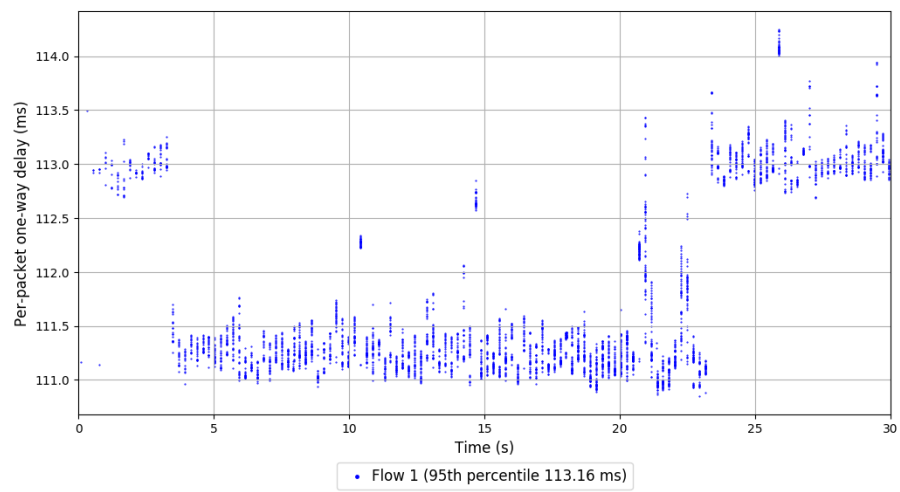
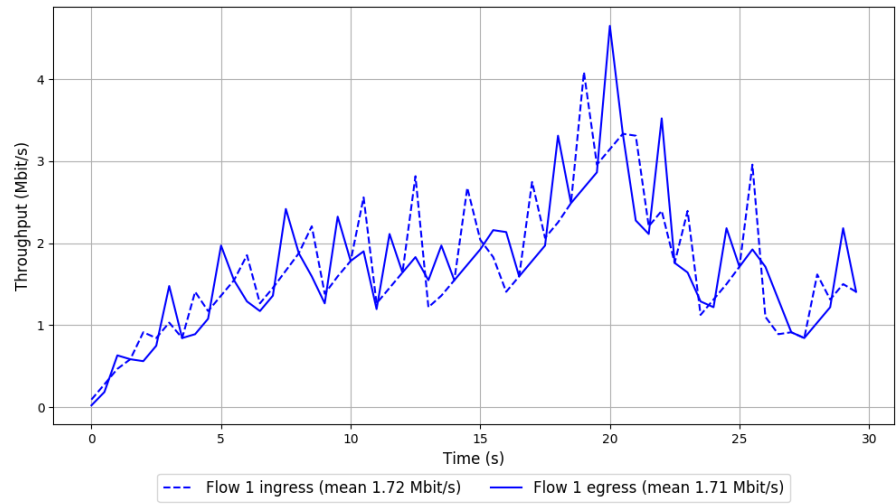
-- Flow 1:

Average throughput: 1.71 Mbit/s

95th percentile per-packet one-way delay: 113.155 ms

Loss rate: 0.11%

Run 10: Report of LEDBAT — Data Link

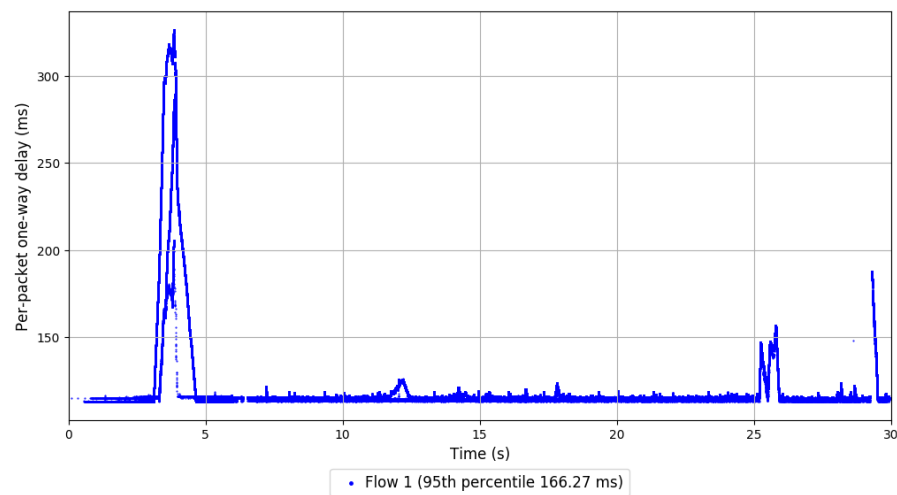
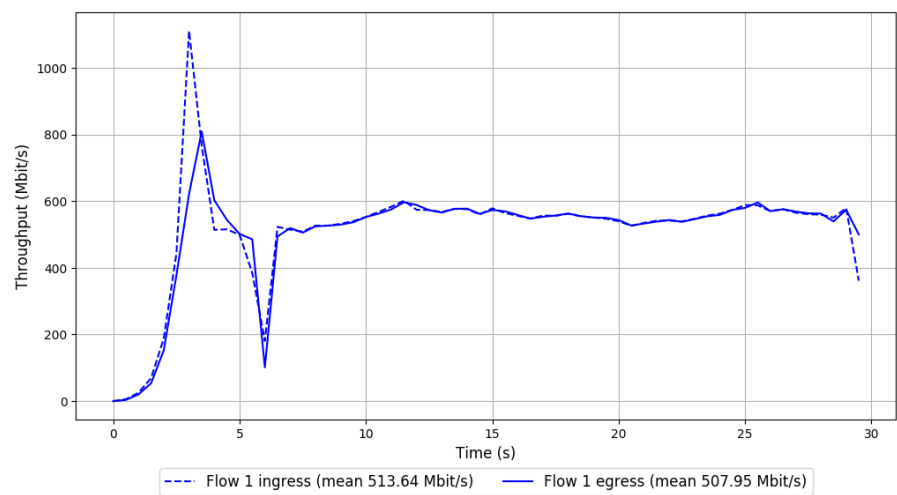


```
Run 1: Statistics of PCC

Start at: 2018-02-12 21:57:25
End at: 2018-02-12 21:57:55

# Below is generated by plot.py at 2018-02-13 02:03:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 507.95 Mbit/s
95th percentile per-packet one-way delay: 166.266 ms
Loss rate: 1.11%
-- Flow 1:
Average throughput: 507.95 Mbit/s
95th percentile per-packet one-way delay: 166.266 ms
Loss rate: 1.11%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2018-02-12 22:12:39

End at: 2018-02-12 22:13:09

Below is generated by plot.py at 2018-02-13 02:03:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 526.90 Mbit/s

95th percentile per-packet one-way delay: 158.907 ms

Loss rate: 0.88%

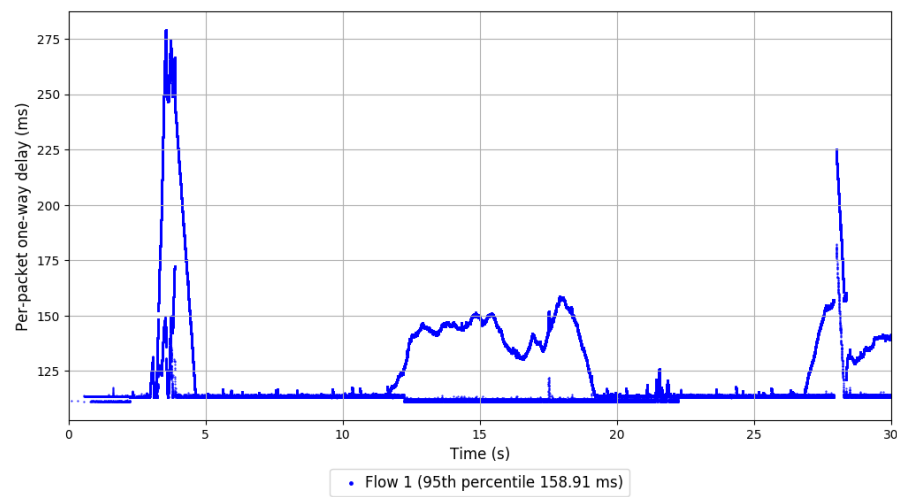
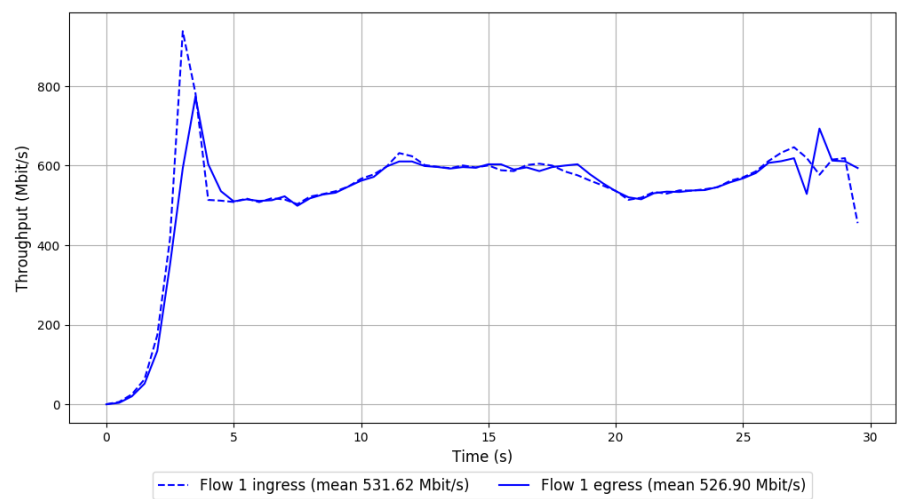
-- Flow 1:

Average throughput: 526.90 Mbit/s

95th percentile per-packet one-way delay: 158.907 ms

Loss rate: 0.88%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-02-12 22:28:21

End at: 2018-02-12 22:28:51

Below is generated by plot.py at 2018-02-13 02:03:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 538.11 Mbit/s

95th percentile per-packet one-way delay: 173.825 ms

Loss rate: 0.94%

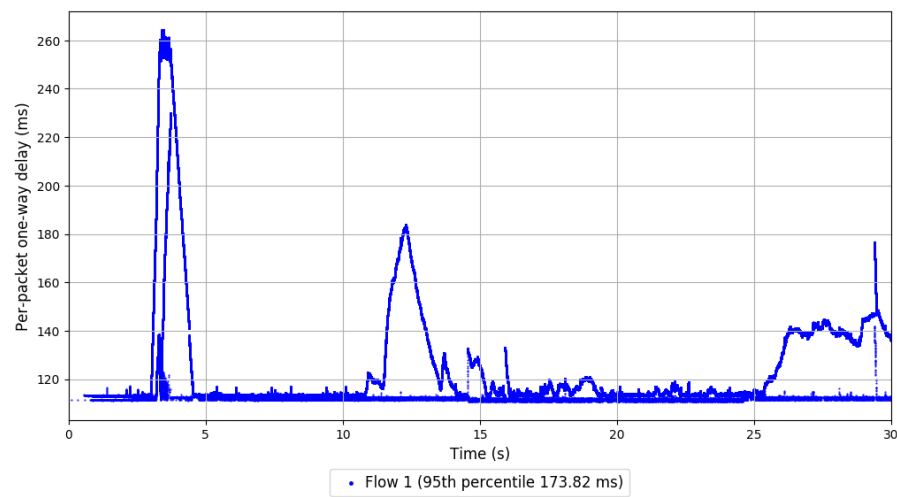
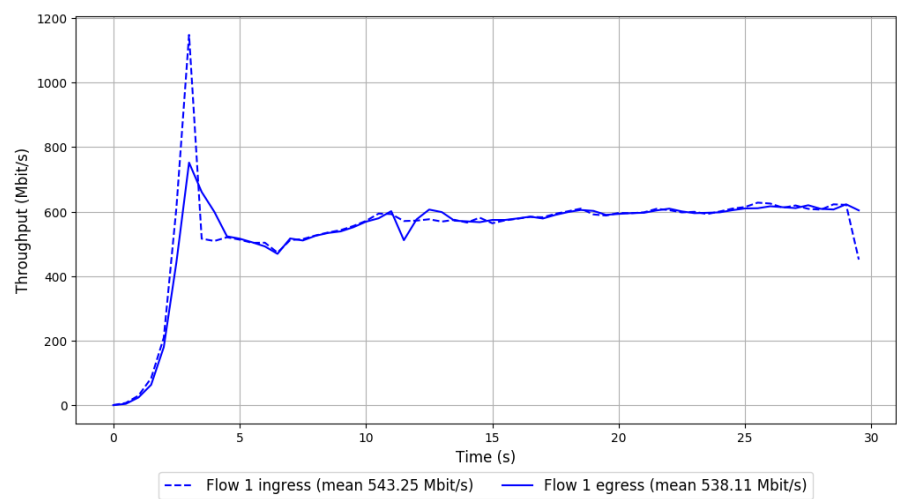
-- Flow 1:

Average throughput: 538.11 Mbit/s

95th percentile per-packet one-way delay: 173.825 ms

Loss rate: 0.94%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-02-12 22:43:43

End at: 2018-02-12 22:44:14

Below is generated by plot.py at 2018-02-13 02:03:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 521.51 Mbit/s

95th percentile per-packet one-way delay: 173.330 ms

Loss rate: 1.10%

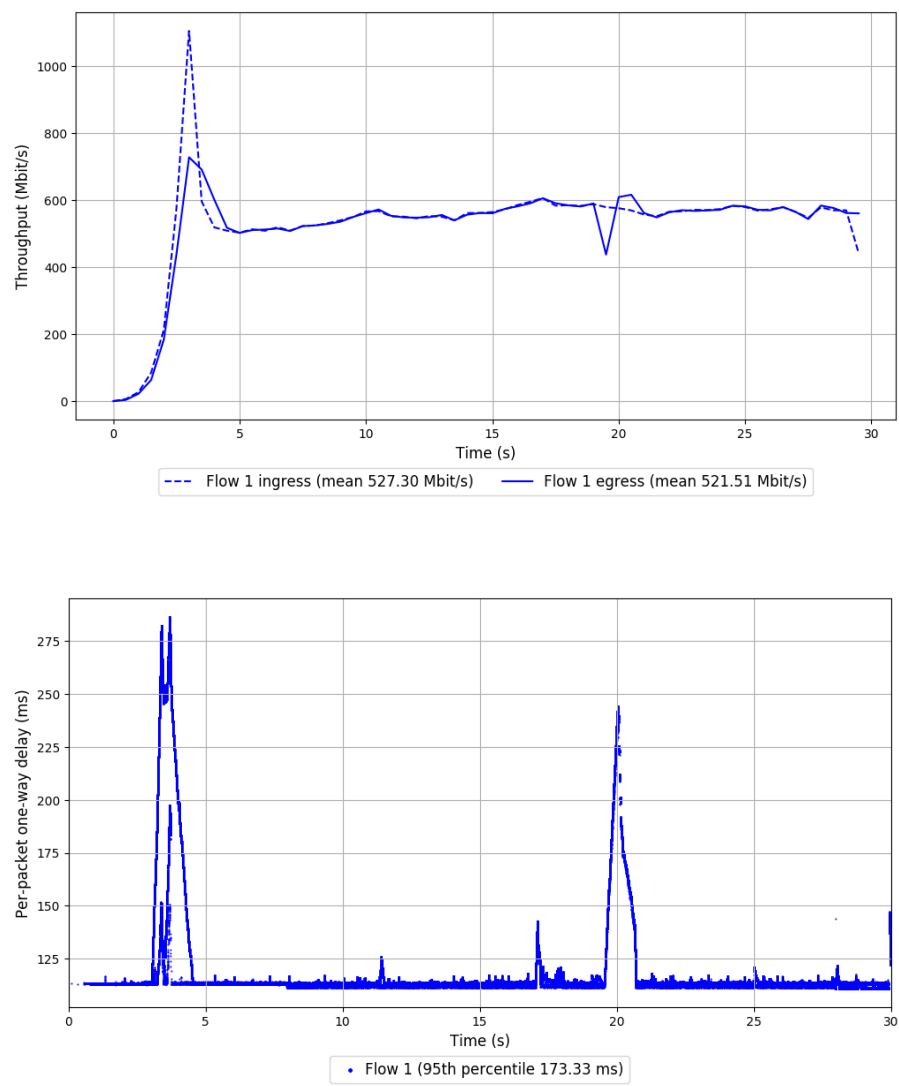
-- Flow 1:

Average throughput: 521.51 Mbit/s

95th percentile per-packet one-way delay: 173.330 ms

Loss rate: 1.10%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-02-12 22:59:17

End at: 2018-02-12 22:59:47

Below is generated by plot.py at 2018-02-13 02:03:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 506.97 Mbit/s

95th percentile per-packet one-way delay: 152.328 ms

Loss rate: 0.77%

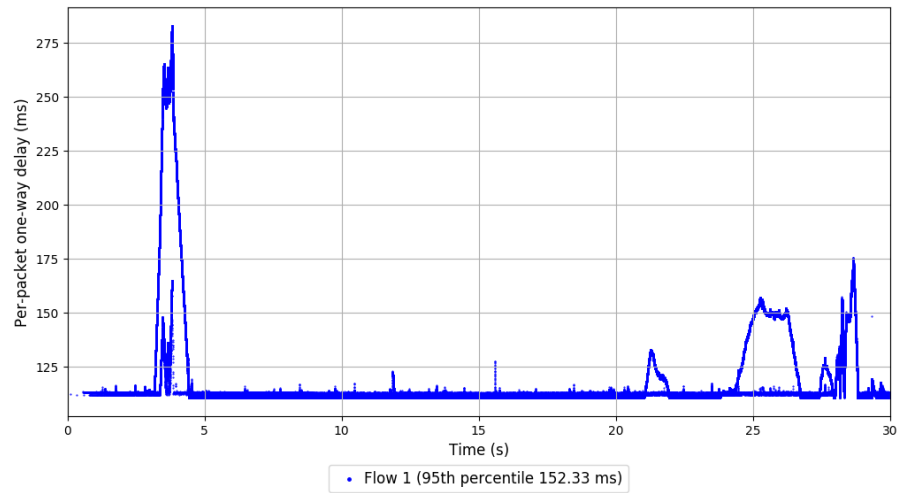
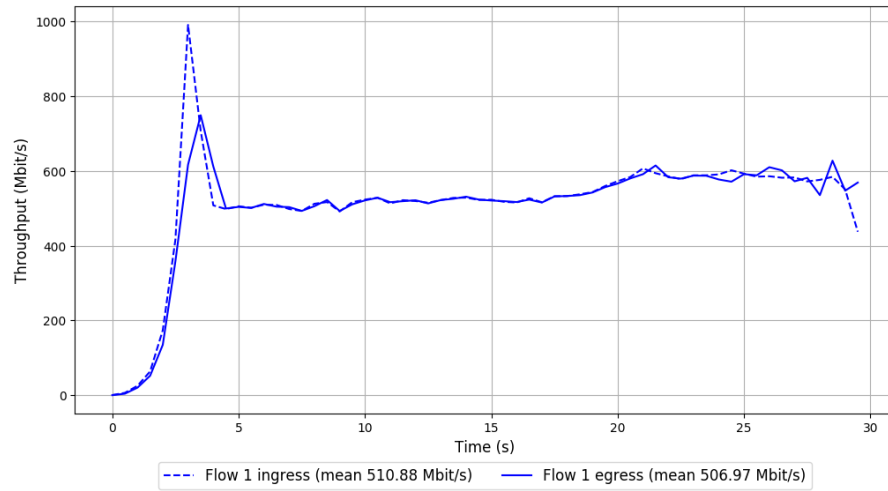
-- Flow 1:

Average throughput: 506.97 Mbit/s

95th percentile per-packet one-way delay: 152.328 ms

Loss rate: 0.77%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-02-12 23:14:53

End at: 2018-02-12 23:15:23

Below is generated by plot.py at 2018-02-13 02:03:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 535.93 Mbit/s

95th percentile per-packet one-way delay: 144.282 ms

Loss rate: 0.90%

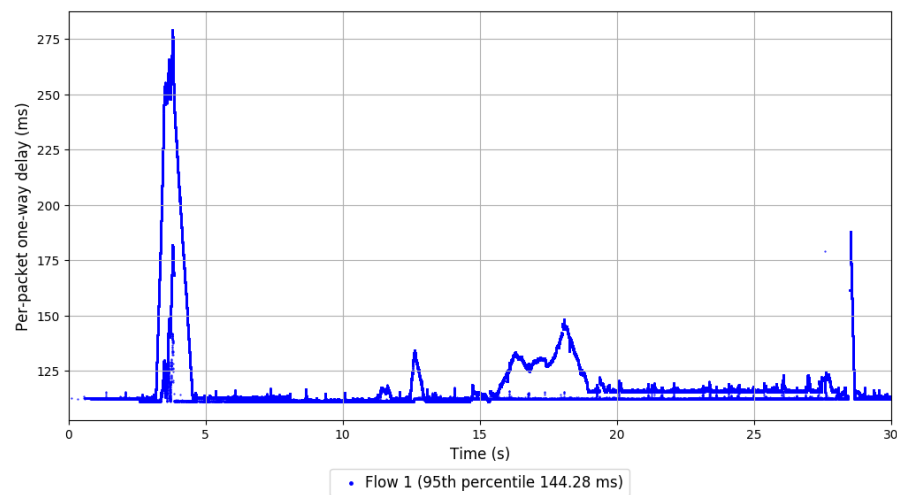
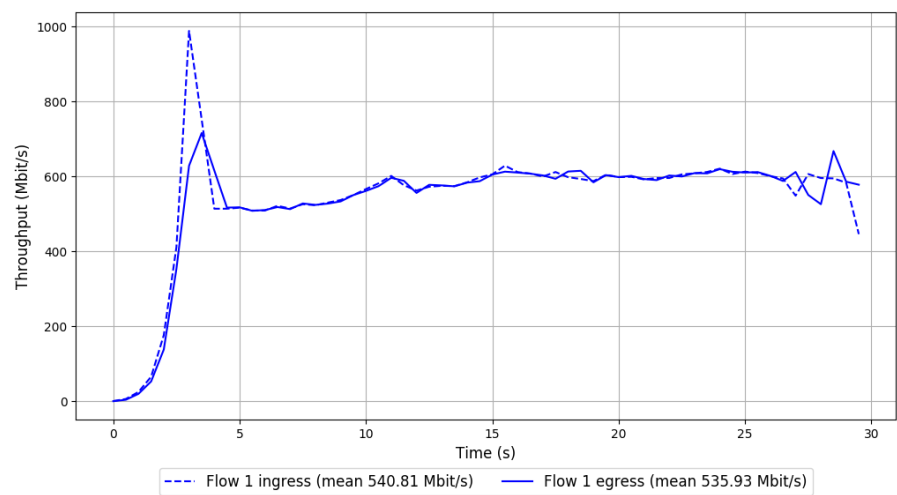
-- Flow 1:

Average throughput: 535.93 Mbit/s

95th percentile per-packet one-way delay: 144.282 ms

Loss rate: 0.90%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-02-12 23:30:12

End at: 2018-02-12 23:30:42

Below is generated by plot.py at 2018-02-13 02:04:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 543.33 Mbit/s

95th percentile per-packet one-way delay: 233.843 ms

Loss rate: 1.31%

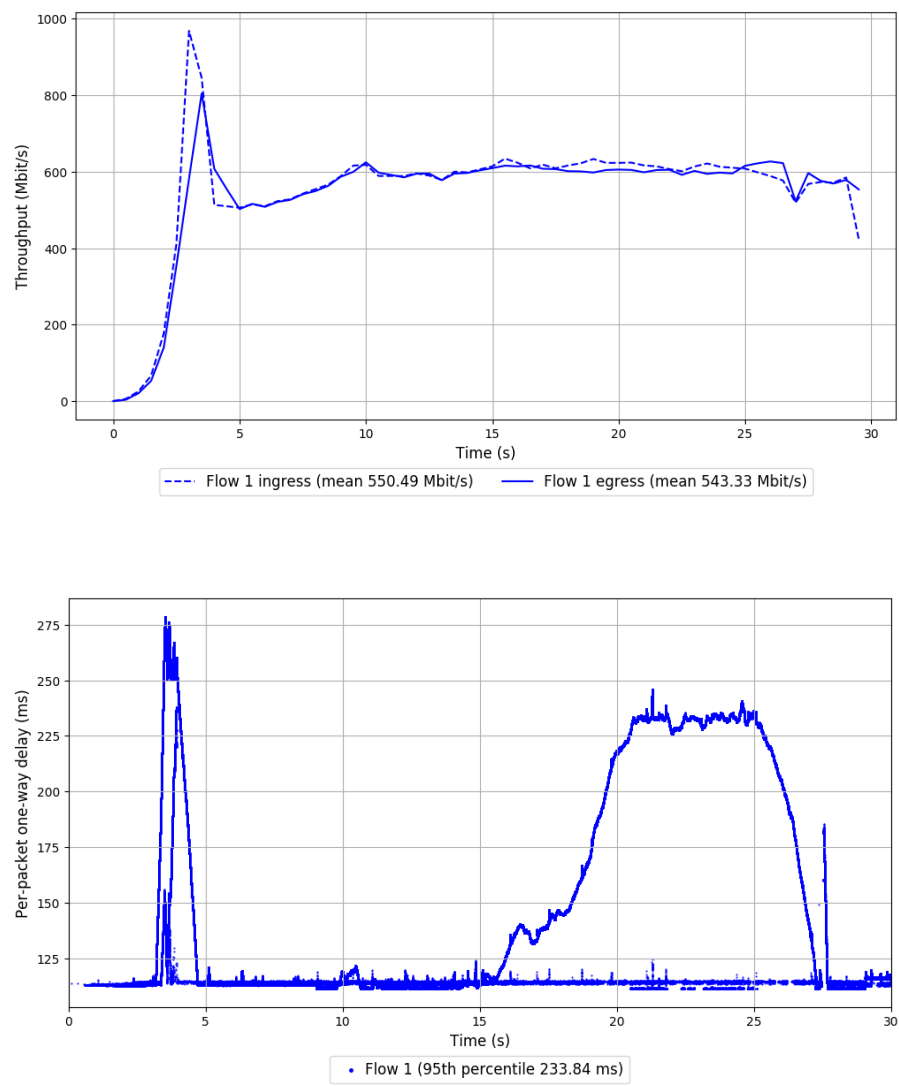
-- Flow 1:

Average throughput: 543.33 Mbit/s

95th percentile per-packet one-way delay: 233.843 ms

Loss rate: 1.31%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-02-12 23:45:46

End at: 2018-02-12 23:46:16

Below is generated by plot.py at 2018-02-13 02:04:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 544.47 Mbit/s

95th percentile per-packet one-way delay: 234.586 ms

Loss rate: 2.25%

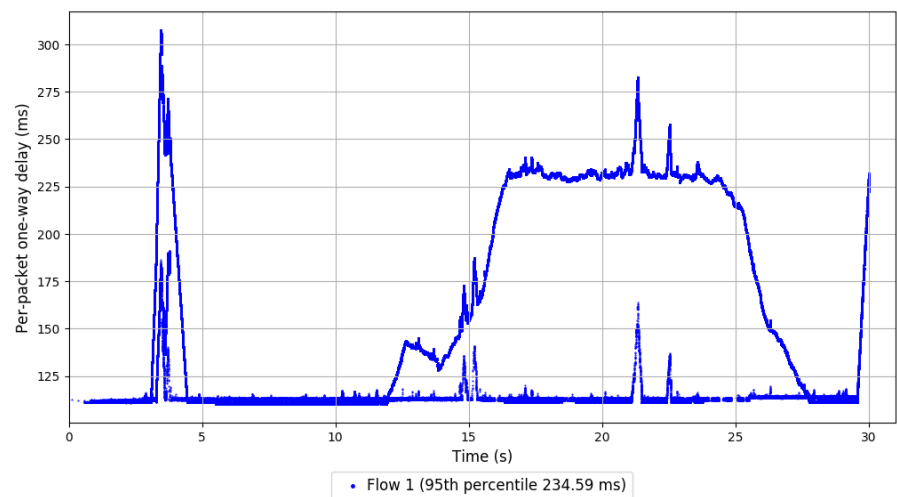
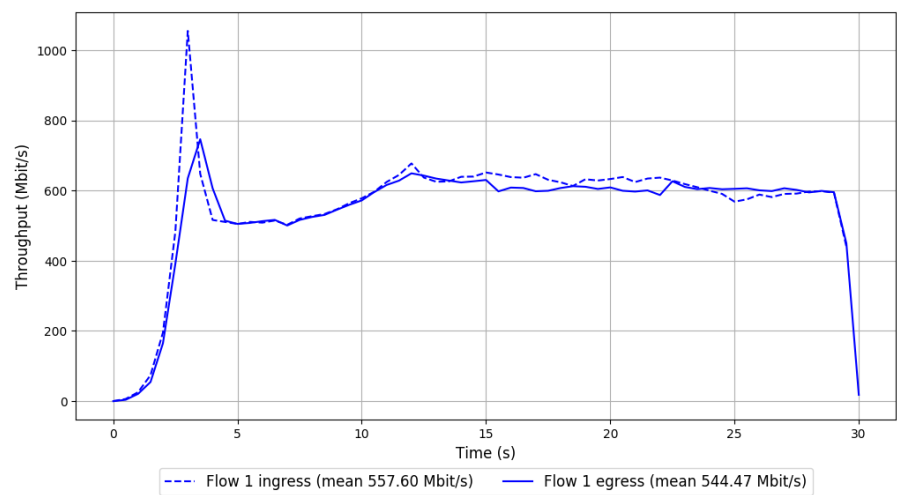
-- Flow 1:

Average throughput: 544.47 Mbit/s

95th percentile per-packet one-way delay: 234.586 ms

Loss rate: 2.25%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2018-02-13 00:01:17

End at: 2018-02-13 00:01:47

Below is generated by plot.py at 2018-02-13 02:12:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 469.13 Mbit/s

95th percentile per-packet one-way delay: 229.896 ms

Loss rate: 3.21%

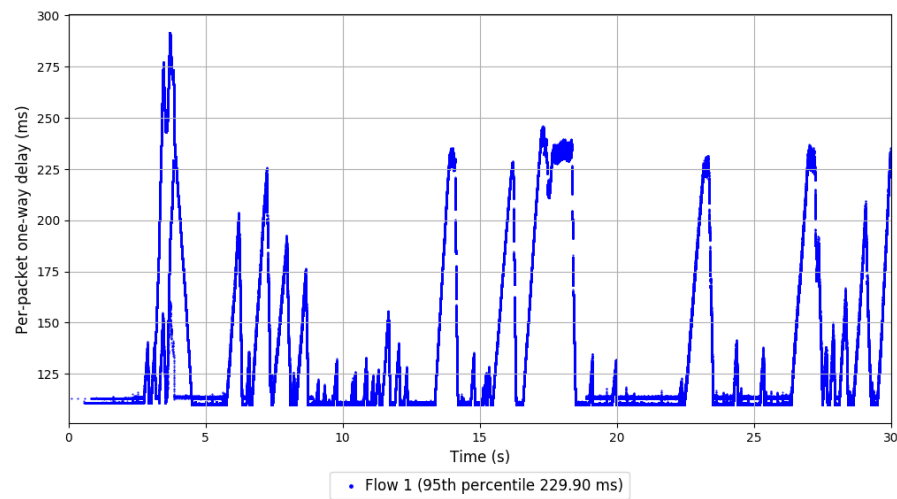
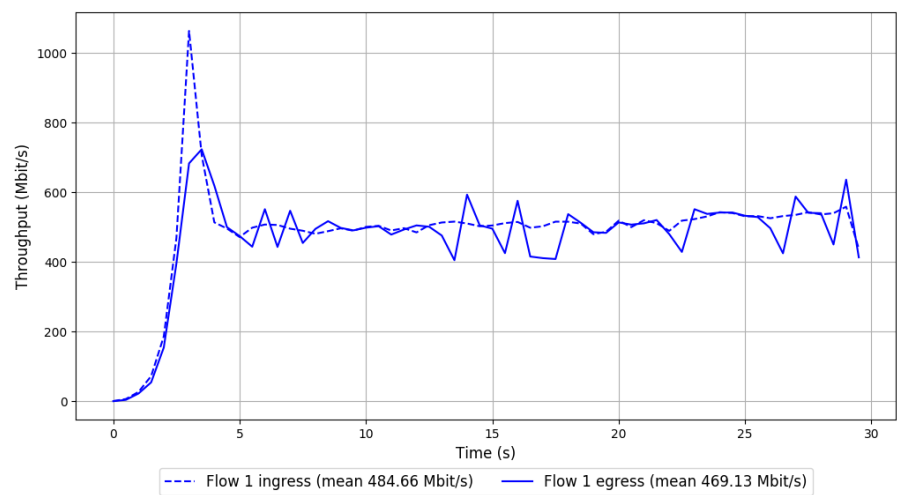
-- Flow 1:

Average throughput: 469.13 Mbit/s

95th percentile per-packet one-way delay: 229.896 ms

Loss rate: 3.21%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2018-02-13 00:16:37

End at: 2018-02-13 00:17:07

Below is generated by plot.py at 2018-02-13 02:13:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 540.16 Mbit/s

95th percentile per-packet one-way delay: 146.778 ms

Loss rate: 0.77%

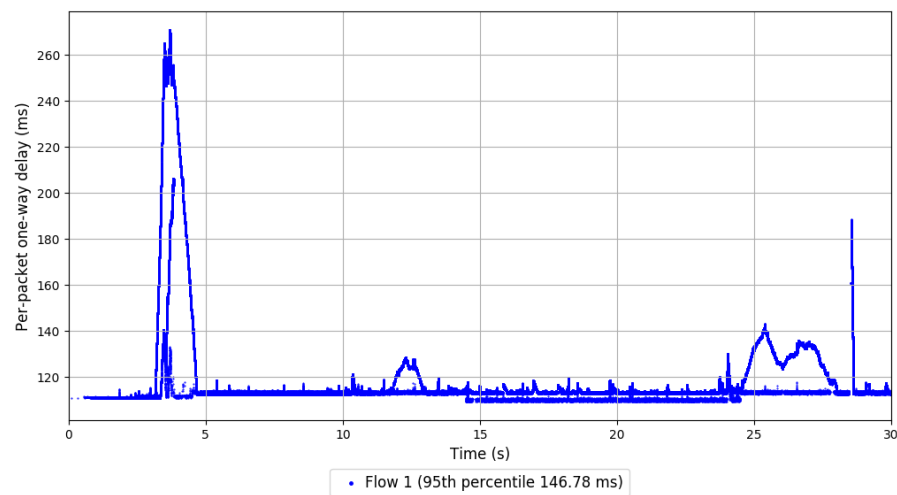
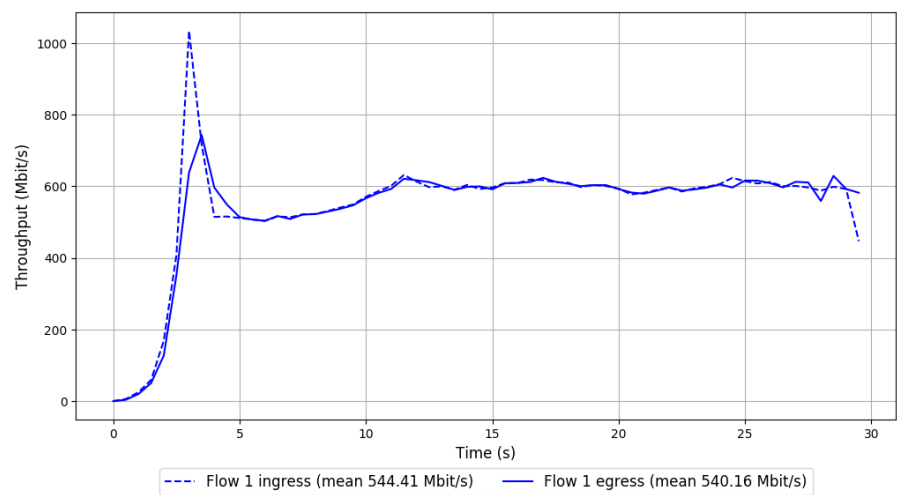
-- Flow 1:

Average throughput: 540.16 Mbit/s

95th percentile per-packet one-way delay: 146.778 ms

Loss rate: 0.77%

Run 10: Report of PCC — Data Link

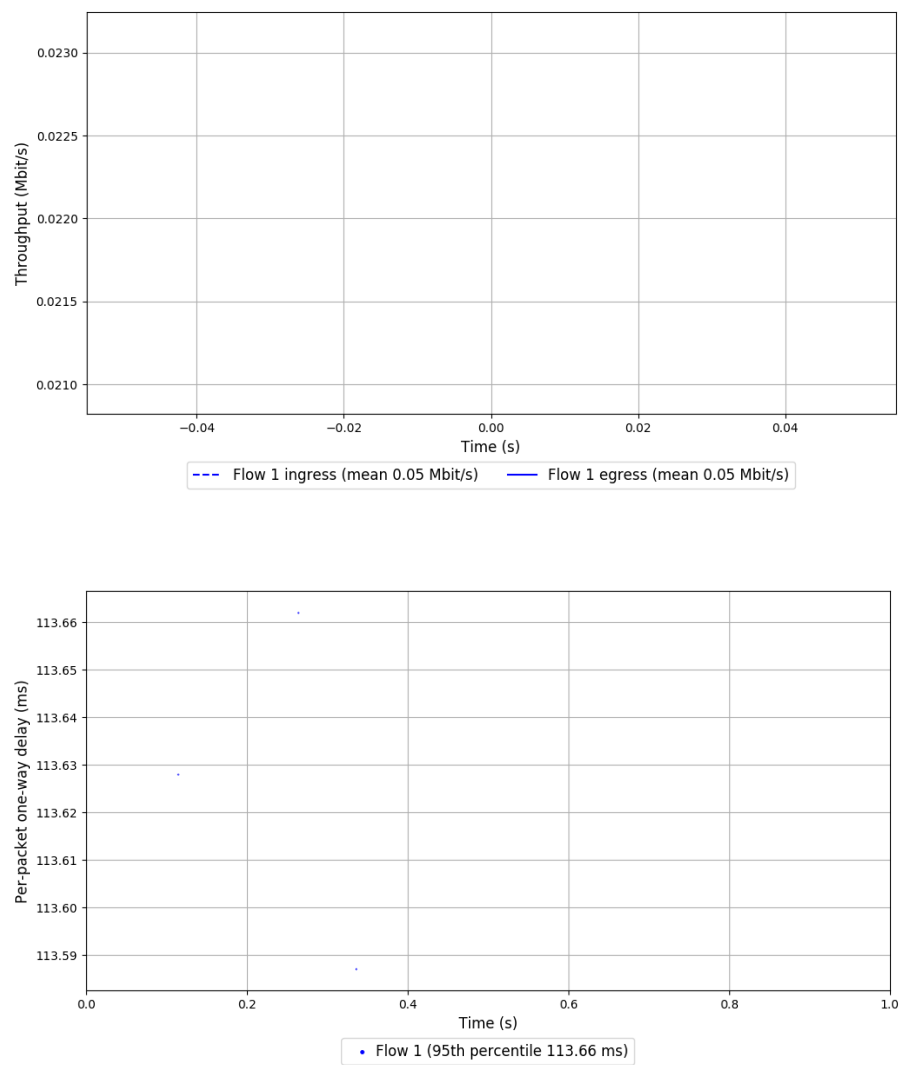


Run 1: Statistics of QUIC Cubic

Start at: 2018-02-12 21:54:58

End at: 2018-02-12 21:55:28

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-02-12 22:10:13

End at: 2018-02-12 22:10:43

Below is generated by plot.py at 2018-02-13 02:13:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 58.27 Mbit/s

95th percentile per-packet one-way delay: 113.369 ms

Loss rate: 0.00%

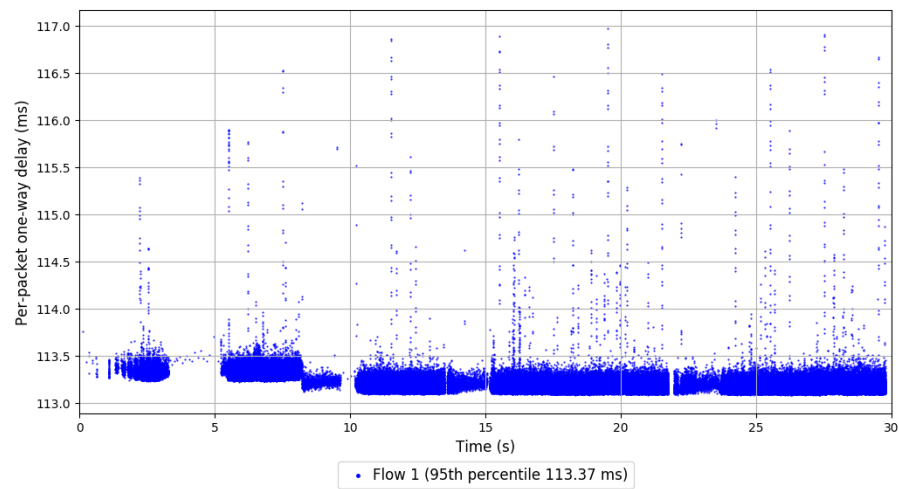
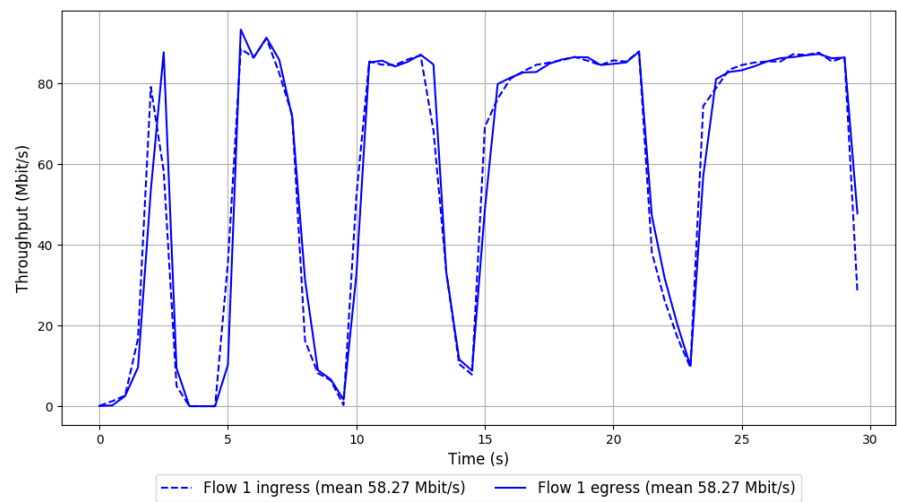
-- Flow 1:

Average throughput: 58.27 Mbit/s

95th percentile per-packet one-way delay: 113.369 ms

Loss rate: 0.00%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-02-12 22:25:43

End at: 2018-02-12 22:26:13

Below is generated by plot.py at 2018-02-13 02:13:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 55.00 Mbit/s

95th percentile per-packet one-way delay: 111.645 ms

Loss rate: 0.00%

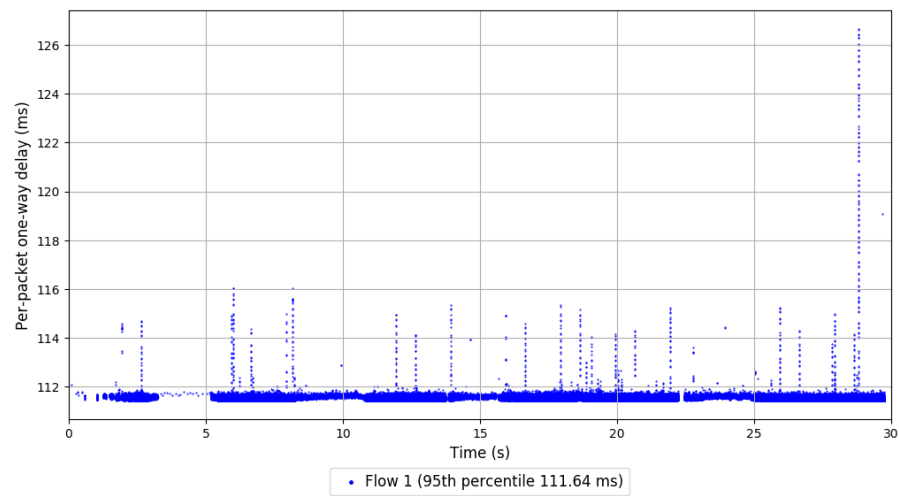
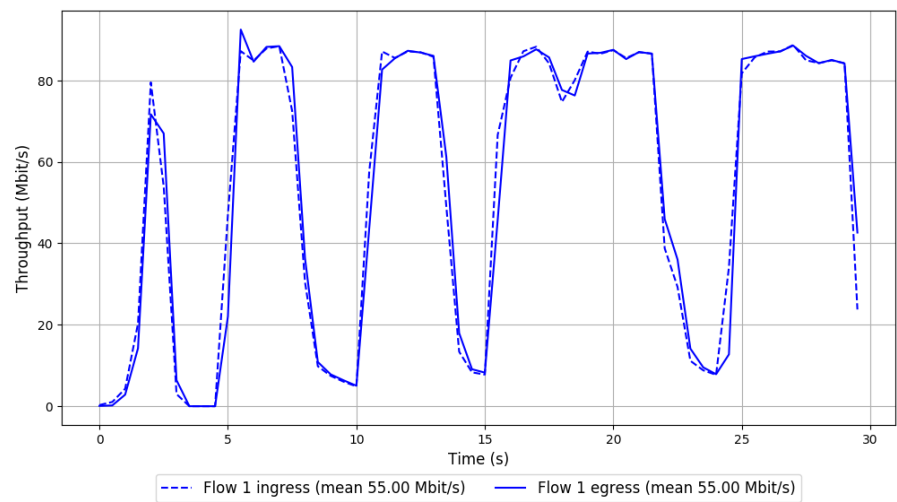
-- Flow 1:

Average throughput: 55.00 Mbit/s

95th percentile per-packet one-way delay: 111.645 ms

Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-02-12 22:41:20

End at: 2018-02-12 22:41:50

Below is generated by plot.py at 2018-02-13 02:13:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 52.43 Mbit/s

95th percentile per-packet one-way delay: 113.257 ms

Loss rate: 0.00%

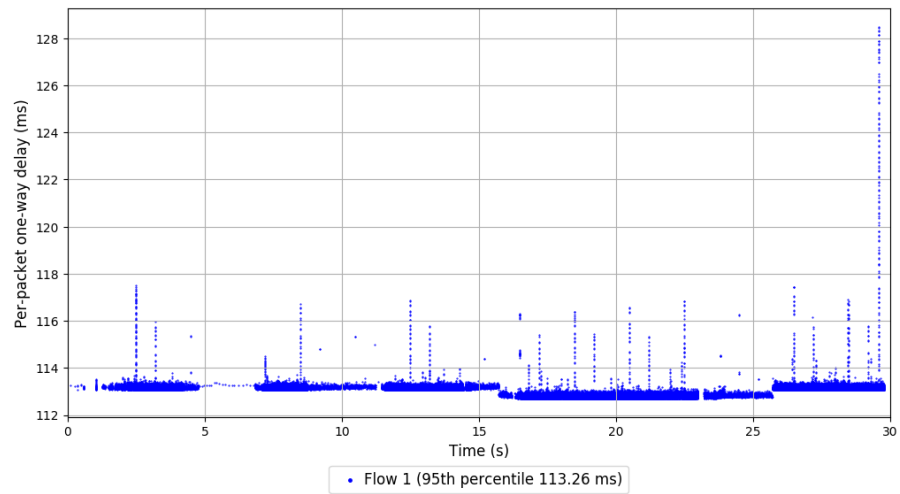
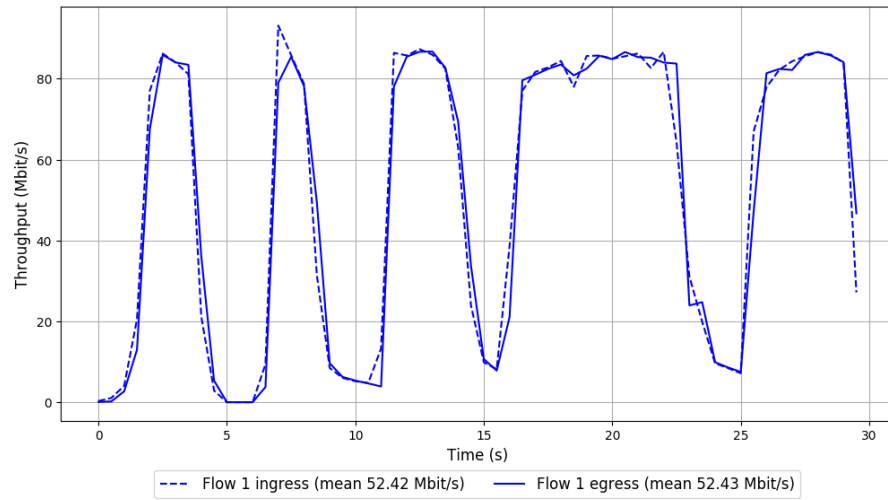
-- Flow 1:

Average throughput: 52.43 Mbit/s

95th percentile per-packet one-way delay: 113.257 ms

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-02-12 22:56:42

End at: 2018-02-12 22:57:12

Below is generated by plot.py at 2018-02-13 02:13:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 51.58 Mbit/s

95th percentile per-packet one-way delay: 113.039 ms

Loss rate: 0.01%

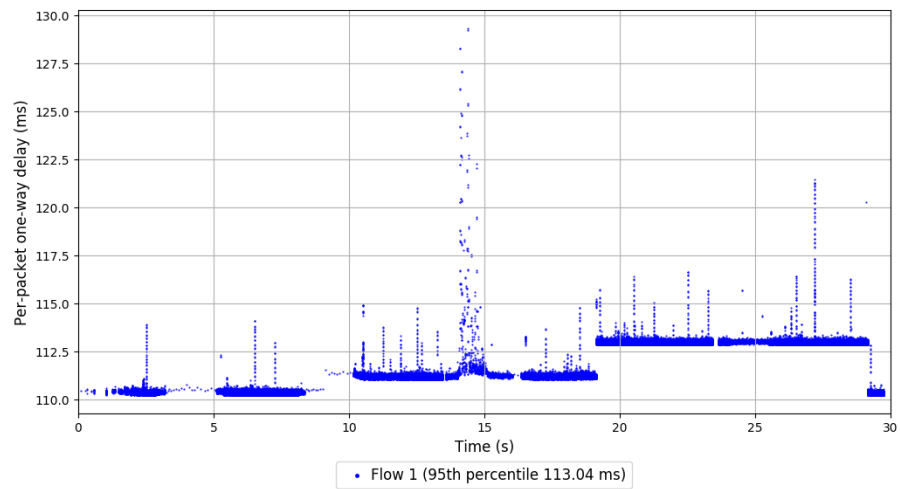
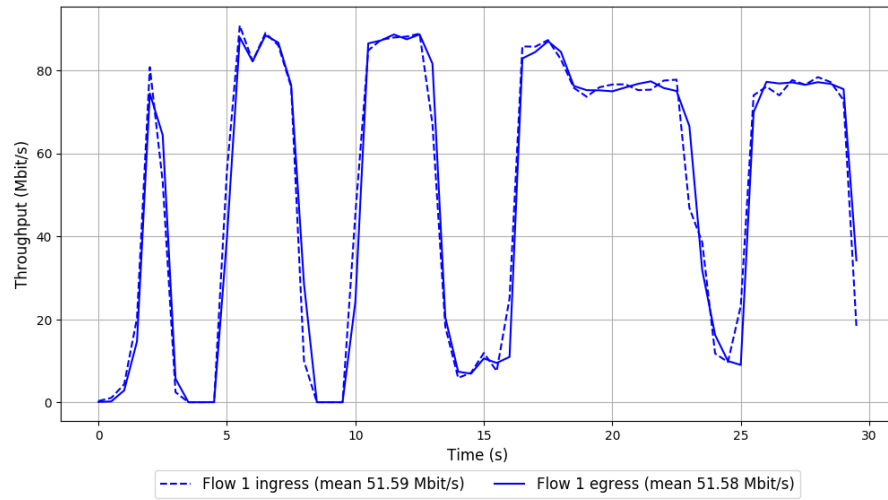
-- Flow 1:

Average throughput: 51.58 Mbit/s

95th percentile per-packet one-way delay: 113.039 ms

Loss rate: 0.01%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-02-12 23:12:18

End at: 2018-02-12 23:12:48

Below is generated by plot.py at 2018-02-13 02:13:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.04 Mbit/s

95th percentile per-packet one-way delay: 113.749 ms

Loss rate: 0.00%

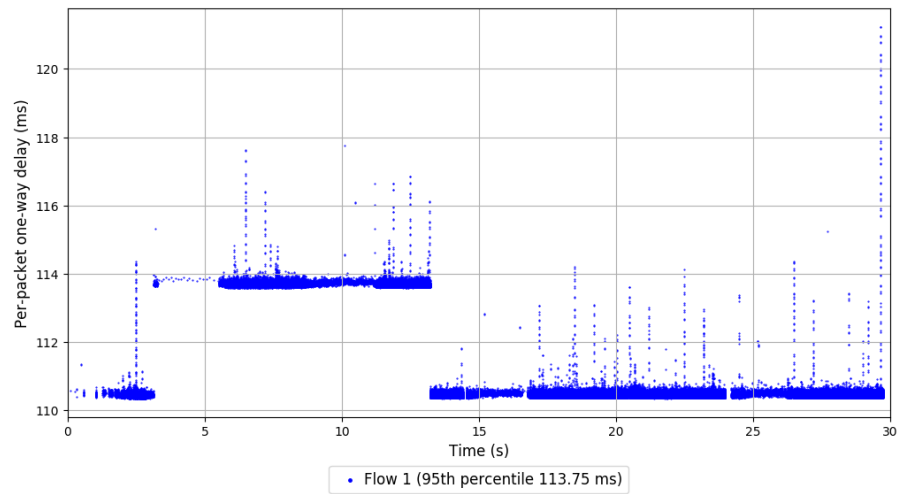
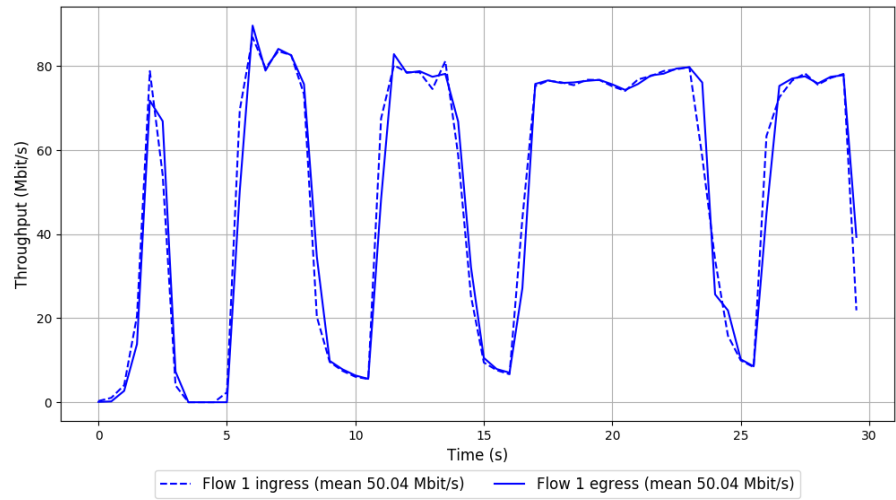
-- Flow 1:

Average throughput: 50.04 Mbit/s

95th percentile per-packet one-way delay: 113.749 ms

Loss rate: 0.00%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-02-12 23:27:46

End at: 2018-02-12 23:28:16

Below is generated by plot.py at 2018-02-13 02:13:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.03 Mbit/s

95th percentile per-packet one-way delay: 113.723 ms

Loss rate: 0.00%

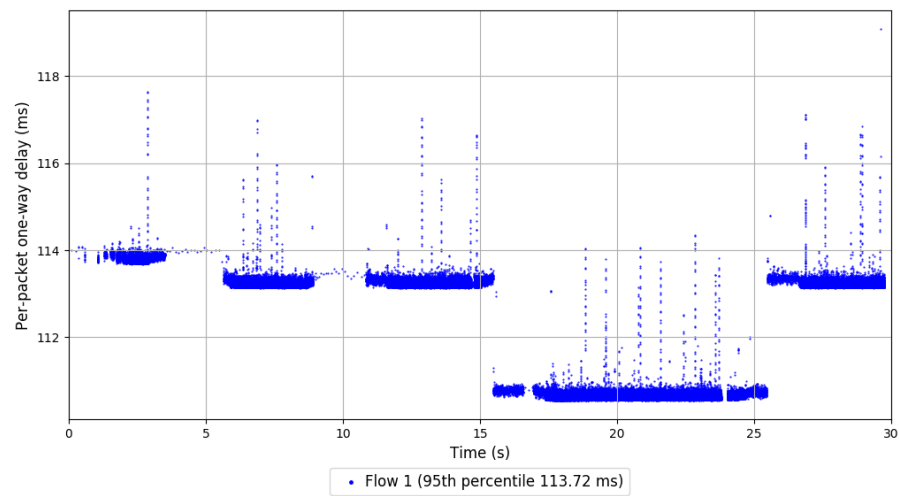
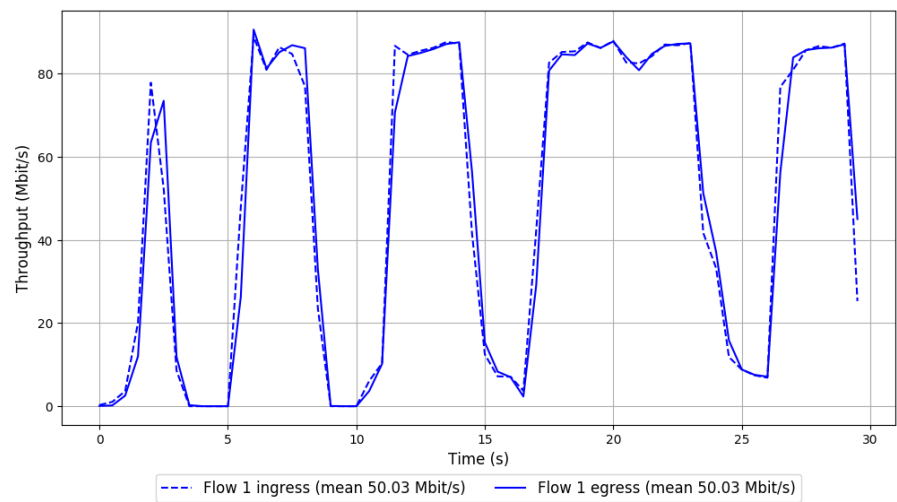
-- Flow 1:

Average throughput: 50.03 Mbit/s

95th percentile per-packet one-way delay: 113.723 ms

Loss rate: 0.00%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-02-12 23:43:08

End at: 2018-02-12 23:43:38

Below is generated by plot.py at 2018-02-13 02:13:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.43 Mbit/s

95th percentile per-packet one-way delay: 112.656 ms

Loss rate: 0.00%

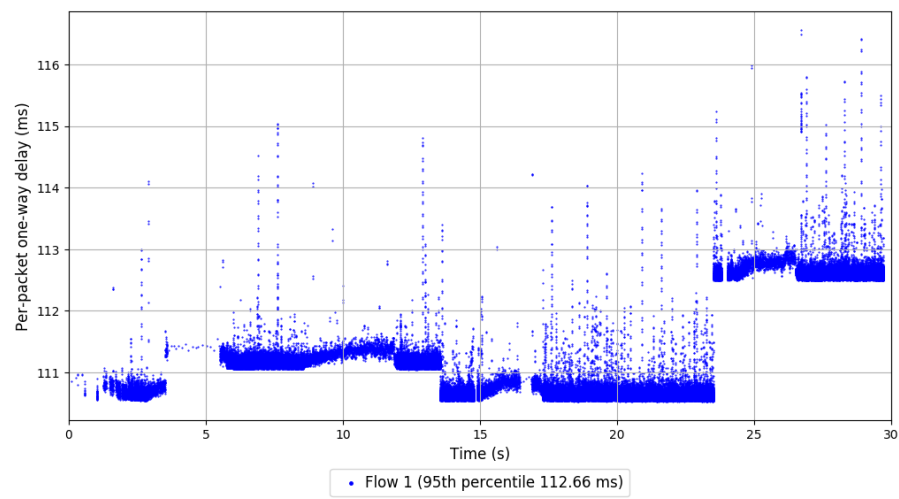
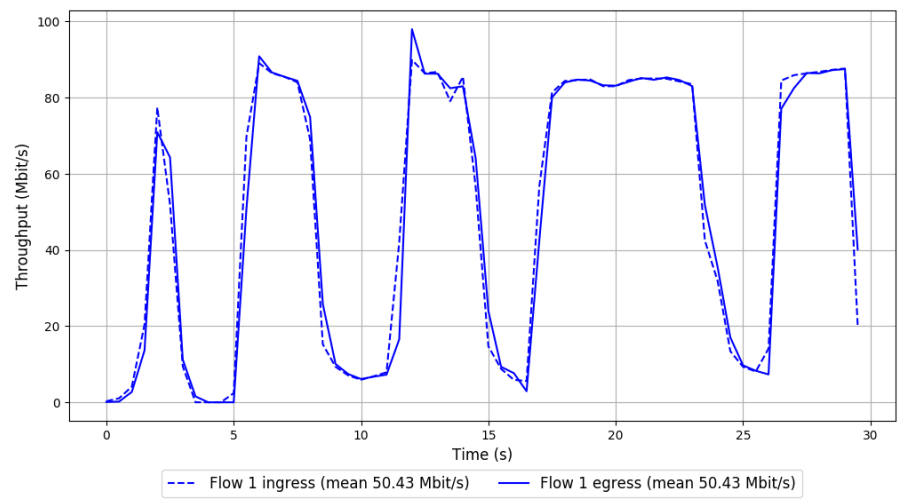
-- Flow 1:

Average throughput: 50.43 Mbit/s

95th percentile per-packet one-way delay: 112.656 ms

Loss rate: 0.00%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-02-12 23:58:48

End at: 2018-02-12 23:59:18

Below is generated by plot.py at 2018-02-13 02:13:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 48.96 Mbit/s

95th percentile per-packet one-way delay: 113.946 ms

Loss rate: 0.01%

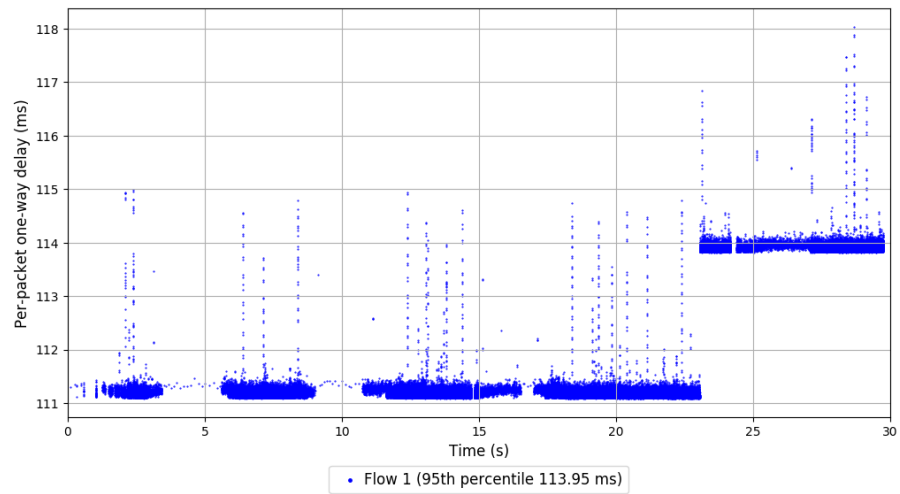
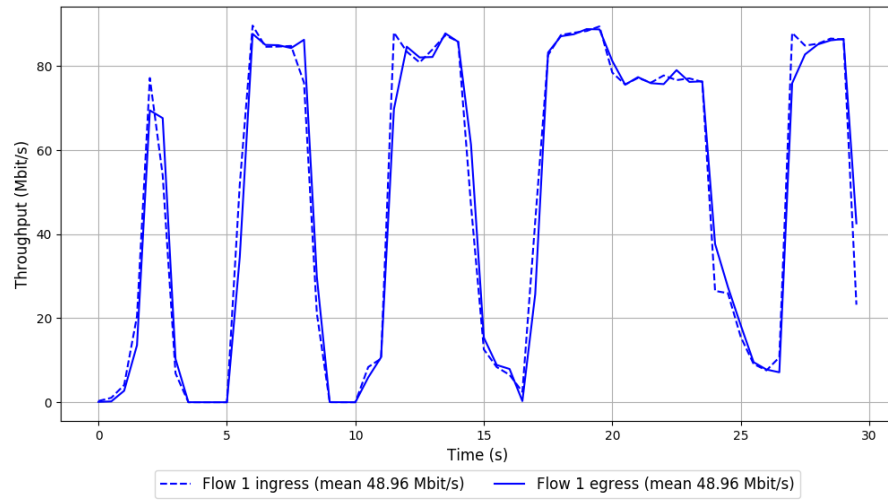
-- Flow 1:

Average throughput: 48.96 Mbit/s

95th percentile per-packet one-way delay: 113.946 ms

Loss rate: 0.01%

Run 9: Report of QUIC Cubic — Data Link

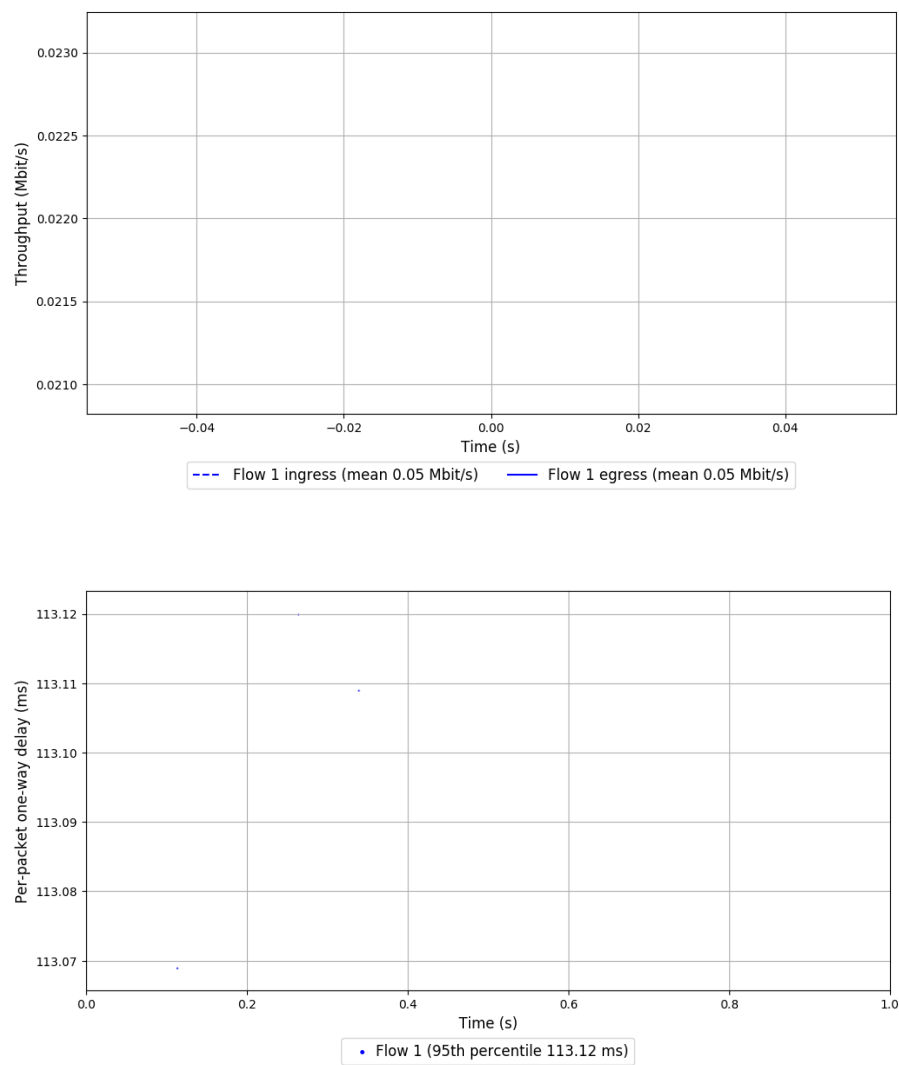


Run 10: Statistics of QUIC Cubic

Start at: 2018-02-13 00:14:10

End at: 2018-02-13 00:14:40

Run 10: Report of QUIC Cubic — Data Link

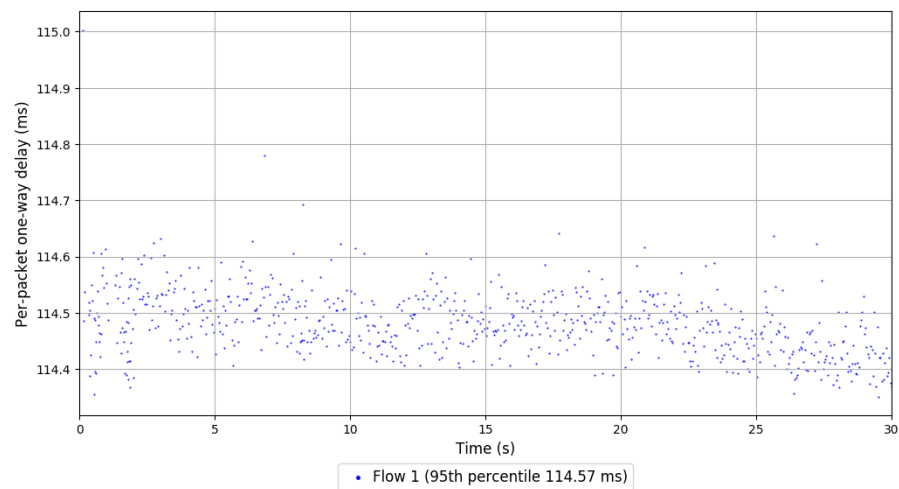
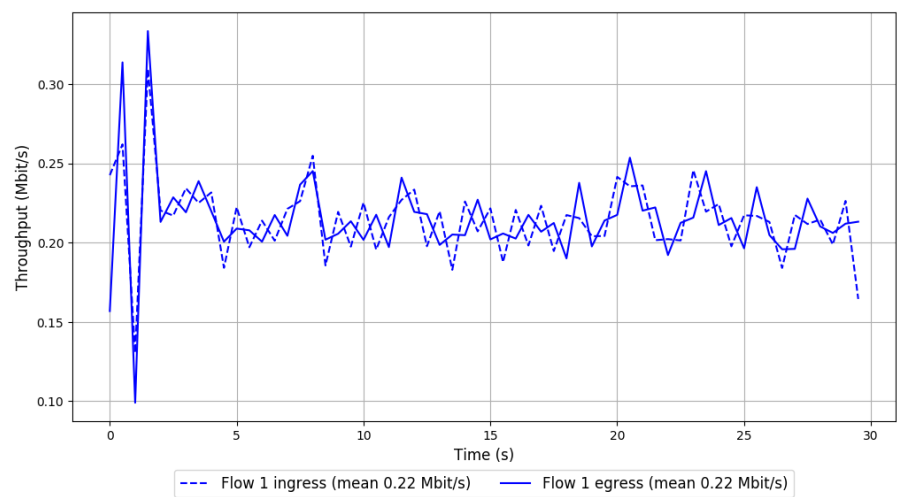


```
Run 1: Statistics of SCReAM

Start at: 2018-02-12 21:59:55
End at: 2018-02-12 22:00:25

# Below is generated by plot.py at 2018-02-13 02:13:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 114.572 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 114.572 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

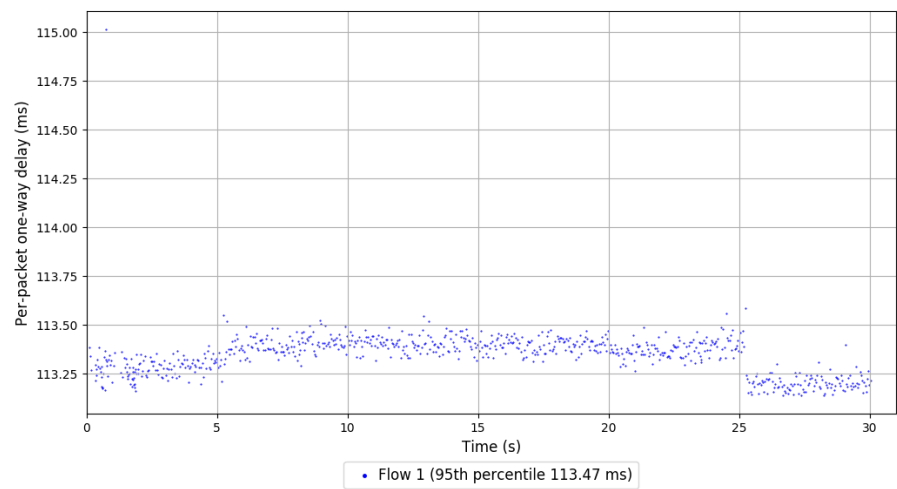
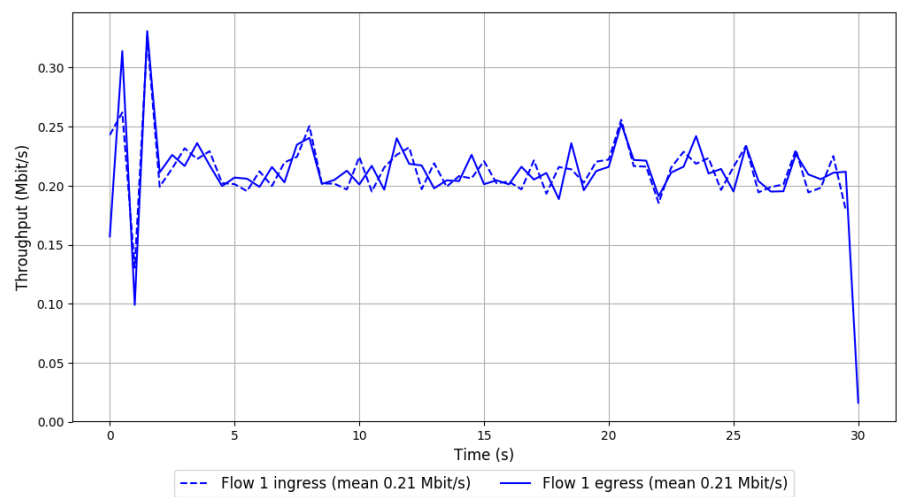


```
Run 2: Statistics of SCReAM

Start at: 2018-02-12 22:15:11
End at: 2018-02-12 22:15:41

# Below is generated by plot.py at 2018-02-13 02:13:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 113.465 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 113.465 ms
Loss rate: 0.00%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-02-12 22:30:52

End at: 2018-02-12 22:31:22

Below is generated by plot.py at 2018-02-13 02:13:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 113.201 ms

Loss rate: 0.00%

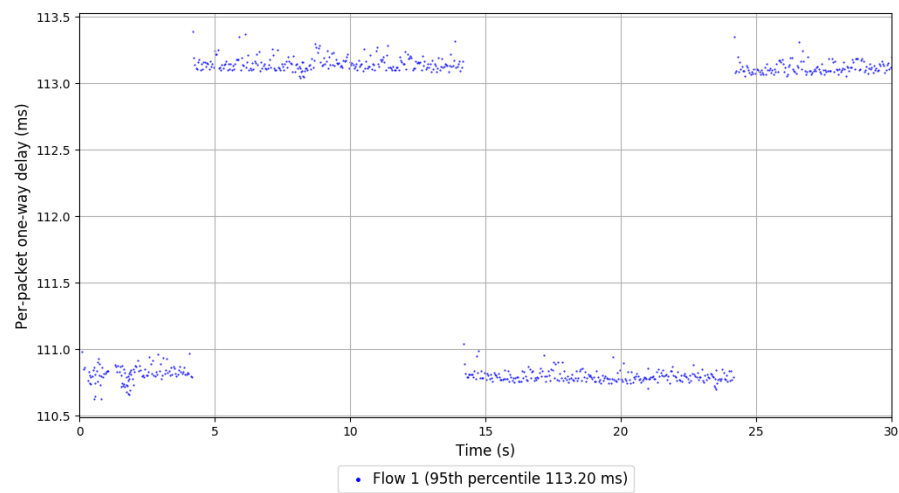
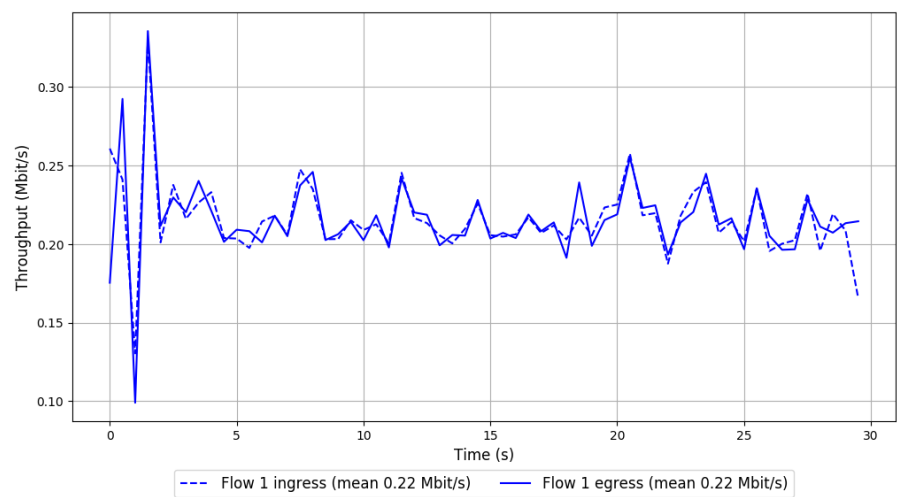
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 113.201 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2018-02-12 22:46:13

End at: 2018-02-12 22:46:43

Below is generated by plot.py at 2018-02-13 02:13:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 113.151 ms

Loss rate: 0.00%

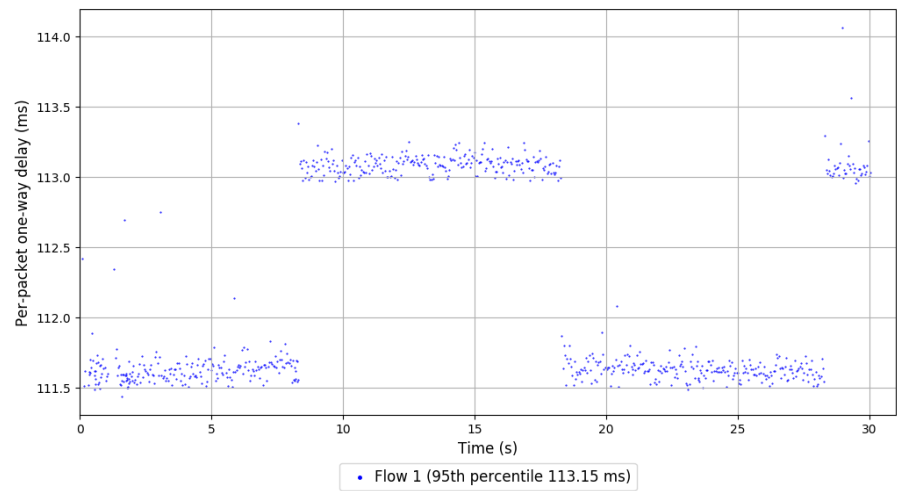
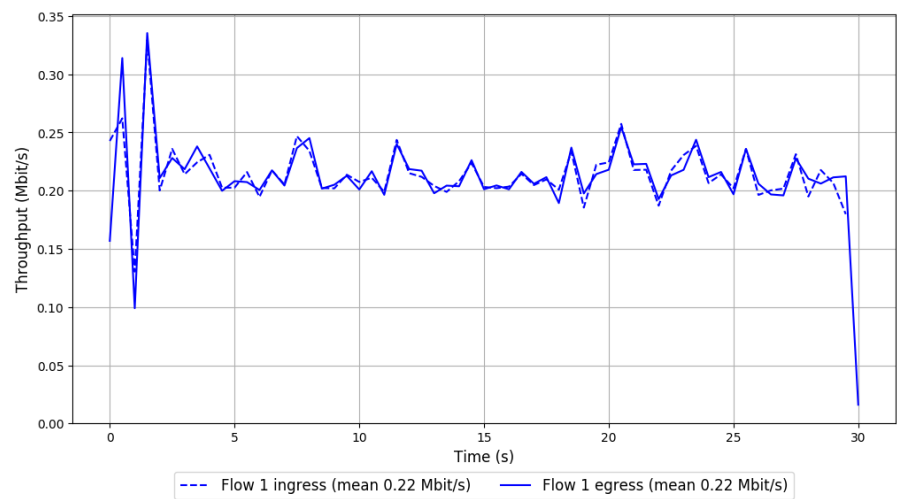
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 113.151 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-02-12 23:01:48

End at: 2018-02-12 23:02:18

Below is generated by plot.py at 2018-02-13 02:13:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 111.406 ms

Loss rate: 0.00%

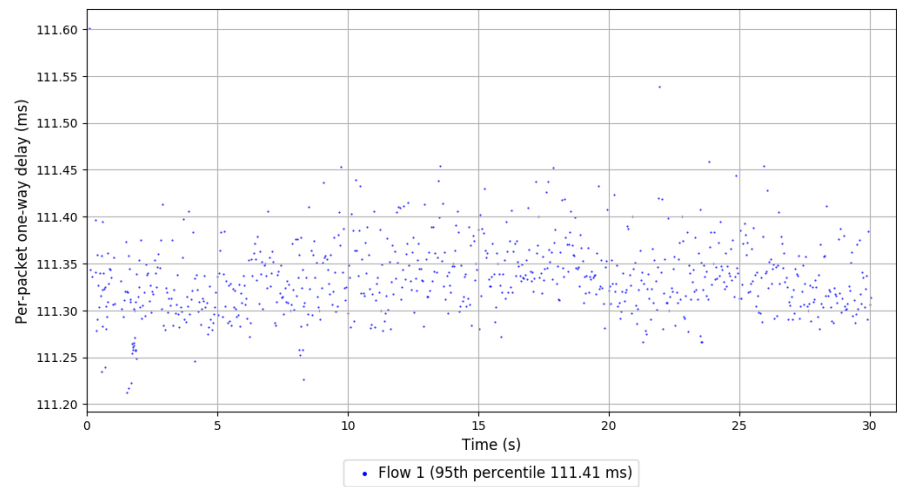
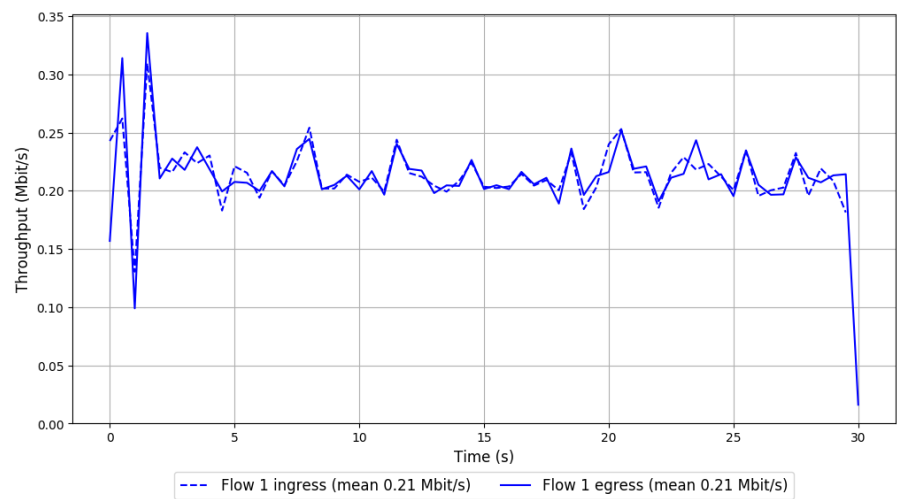
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 111.406 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-02-12 23:17:23

End at: 2018-02-12 23:17:53

Below is generated by plot.py at 2018-02-13 02:13:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 112.765 ms

Loss rate: 0.00%

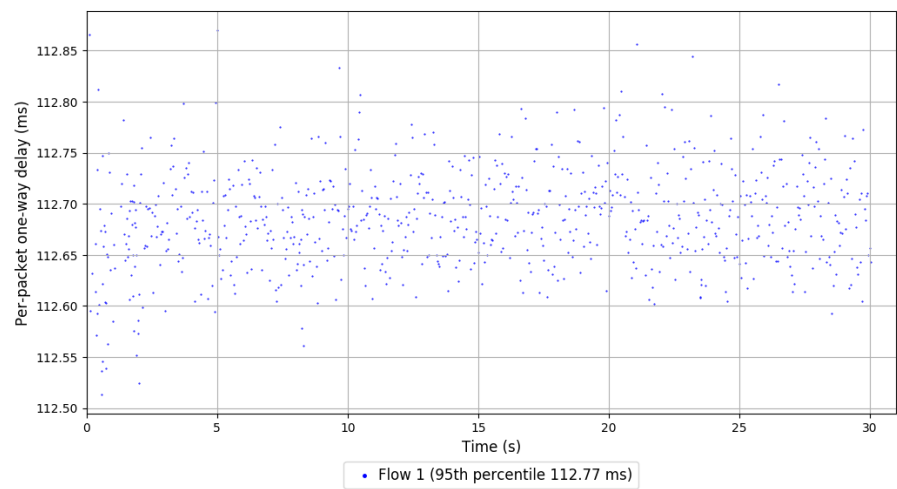
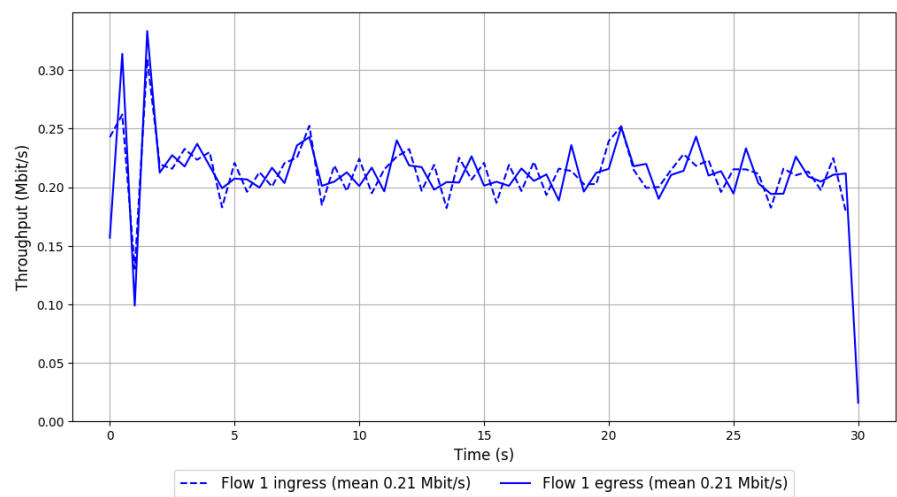
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 112.765 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2018-02-12 23:32:44

End at: 2018-02-12 23:33:14

Below is generated by plot.py at 2018-02-13 02:13:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 112.031 ms

Loss rate: 0.00%

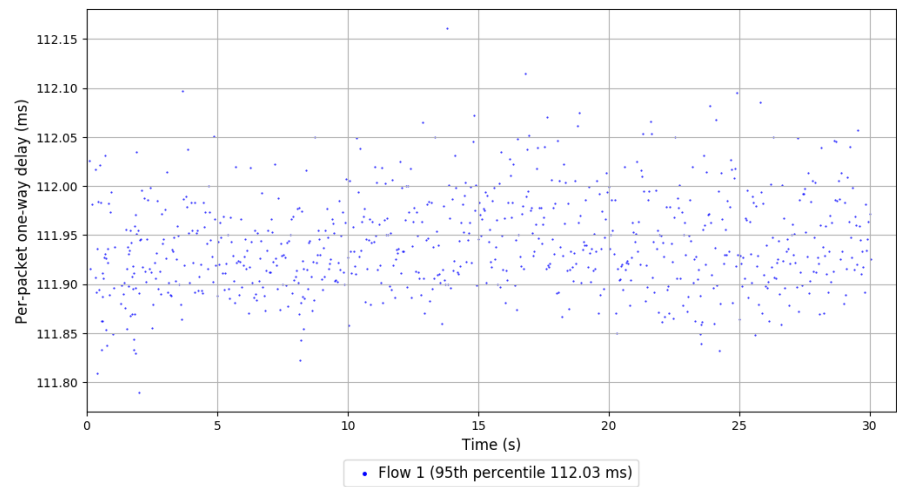
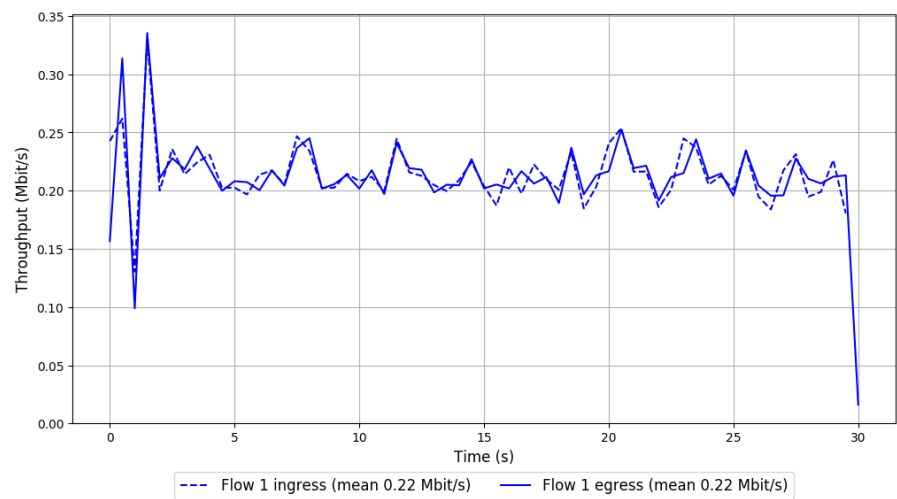
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 112.031 ms

Loss rate: 0.00%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-02-12 23:48:17

End at: 2018-02-12 23:48:47

Below is generated by plot.py at 2018-02-13 02:13:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 113.448 ms

Loss rate: 0.00%

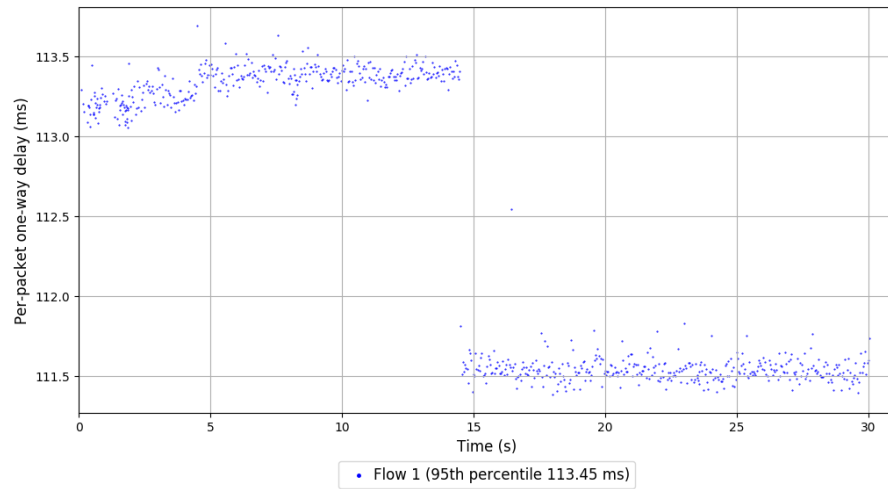
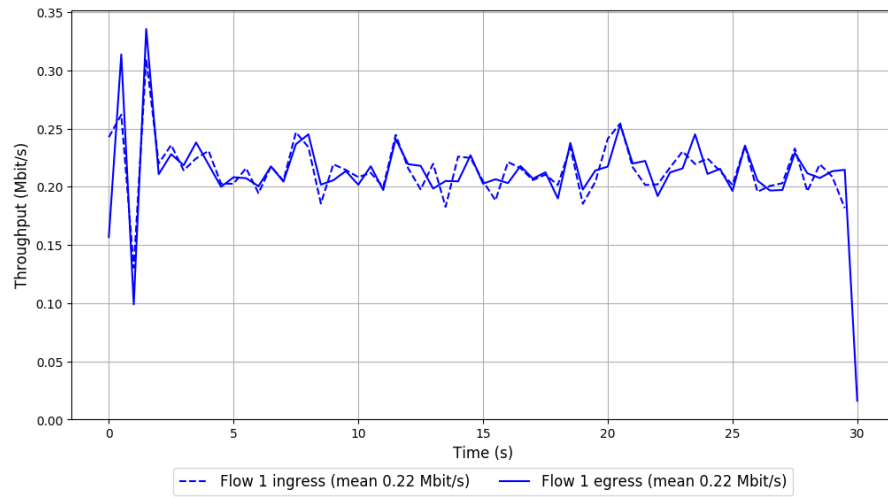
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 113.448 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-02-13 00:03:45

End at: 2018-02-13 00:04:15

Below is generated by plot.py at 2018-02-13 02:13:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 113.165 ms

Loss rate: 0.00%

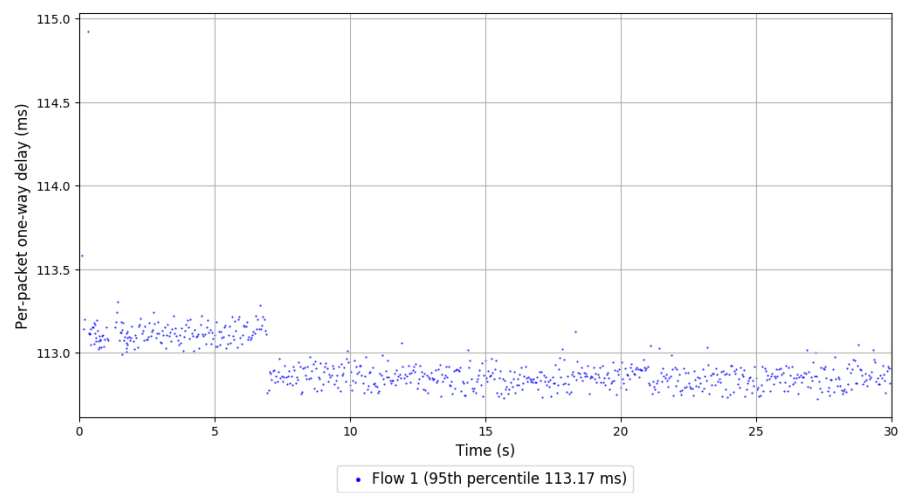
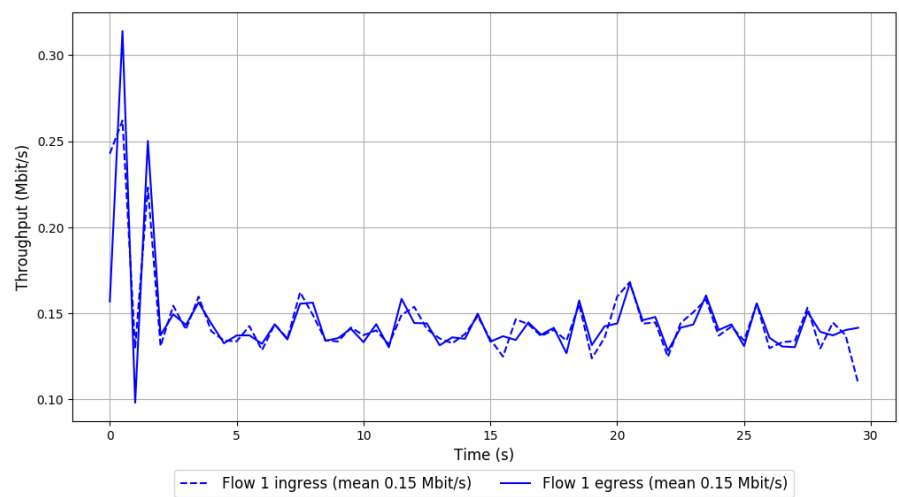
-- Flow 1:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 113.165 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-02-13 00:19:08

End at: 2018-02-13 00:19:38

Below is generated by plot.py at 2018-02-13 02:13:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 113.248 ms

Loss rate: 0.00%

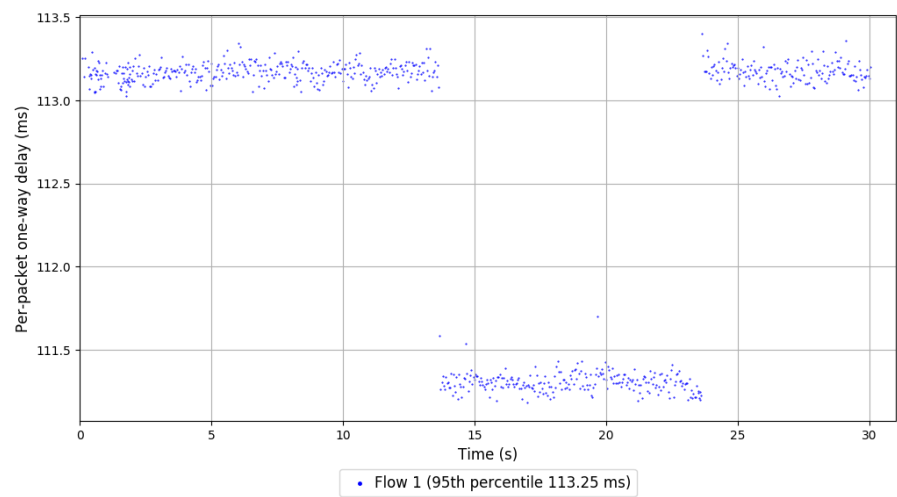
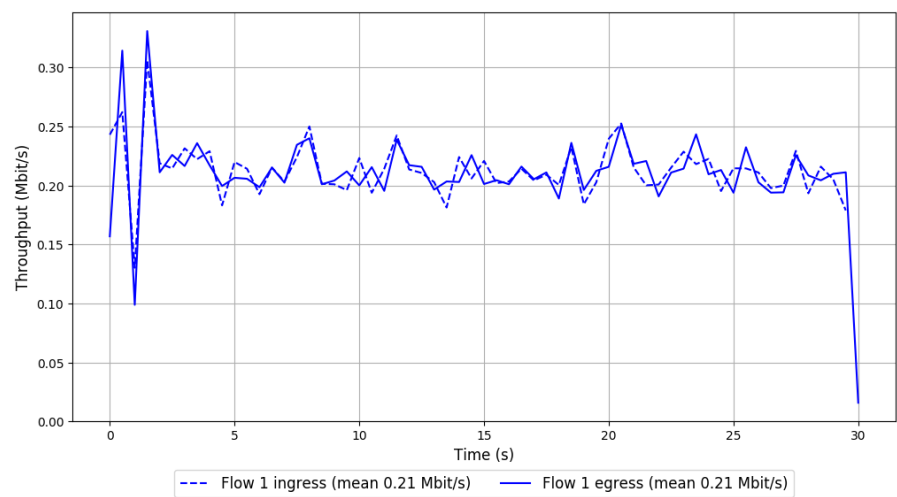
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 113.248 ms

Loss rate: 0.00%

Run 10: Report of SReAM — Data Link

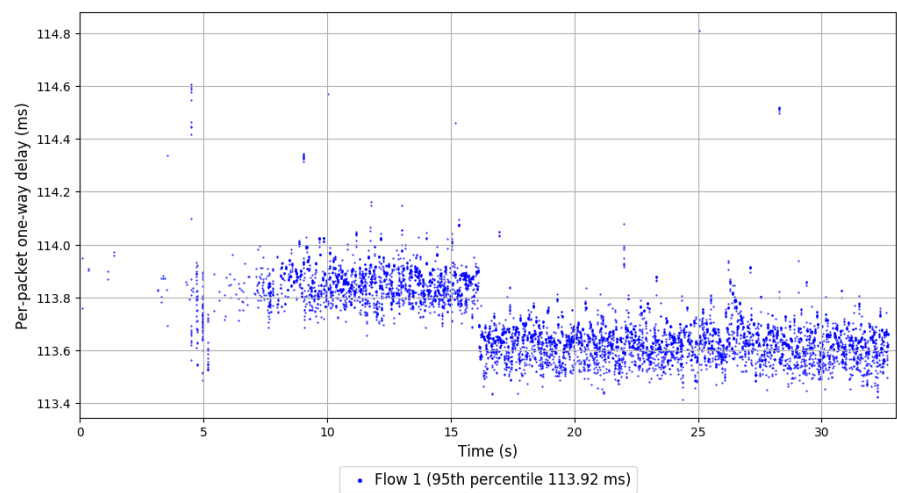
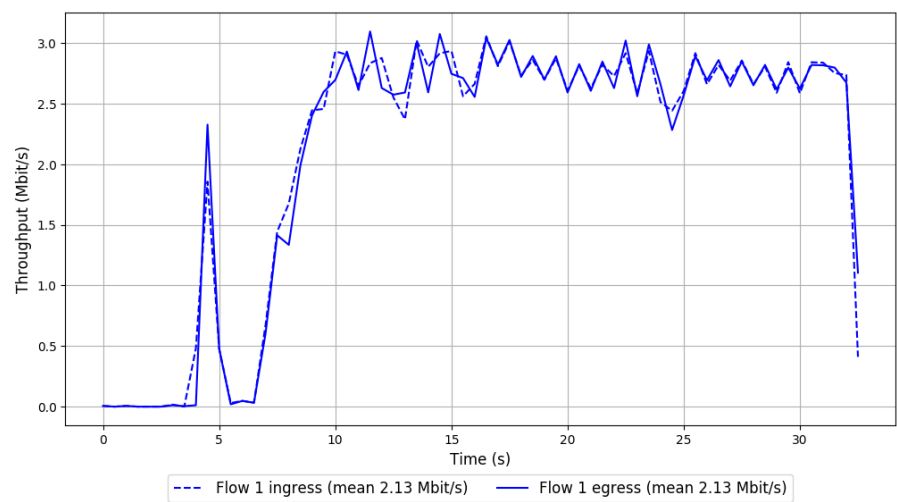


```
Run 1: Statistics of WebRTC media

Start at: 2018-02-12 22:04:38
End at: 2018-02-12 22:05:08

# Below is generated by plot.py at 2018-02-13 02:13:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.13 Mbit/s
95th percentile per-packet one-way delay: 113.917 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.13 Mbit/s
95th percentile per-packet one-way delay: 113.917 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-02-12 22:20:06

End at: 2018-02-12 22:20:36

Below is generated by plot.py at 2018-02-13 02:13:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 112.777 ms

Loss rate: 0.00%

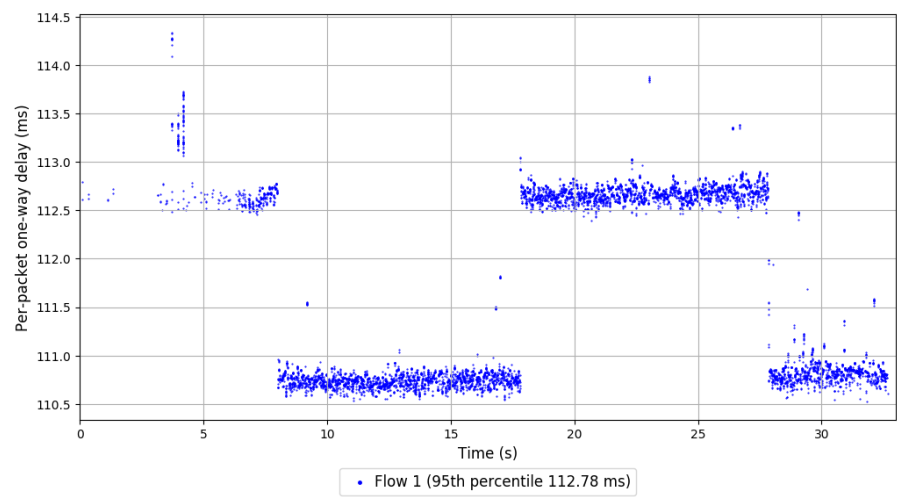
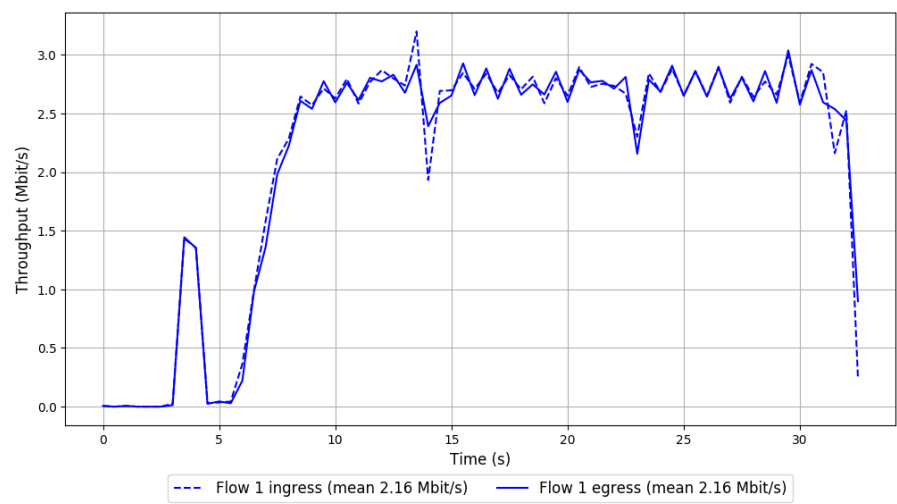
-- Flow 1:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 112.777 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-02-12 22:35:37

End at: 2018-02-12 22:36:07

Below is generated by plot.py at 2018-02-13 02:13:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 113.161 ms

Loss rate: 0.00%

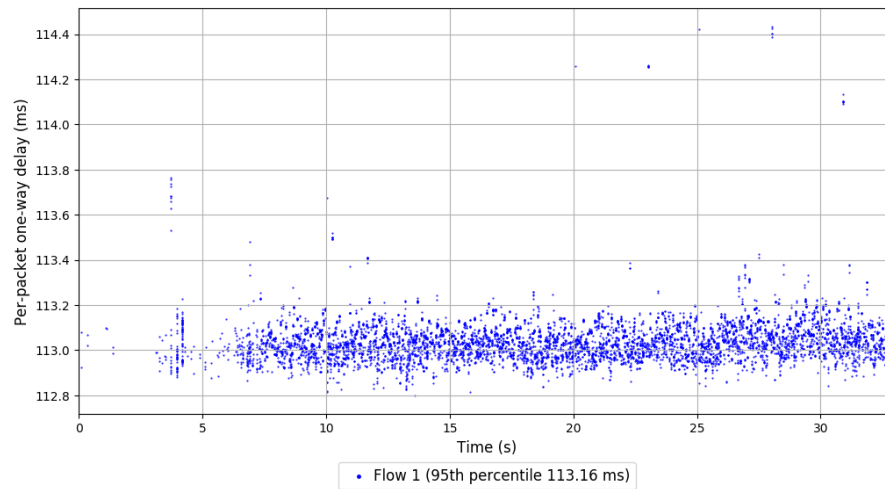
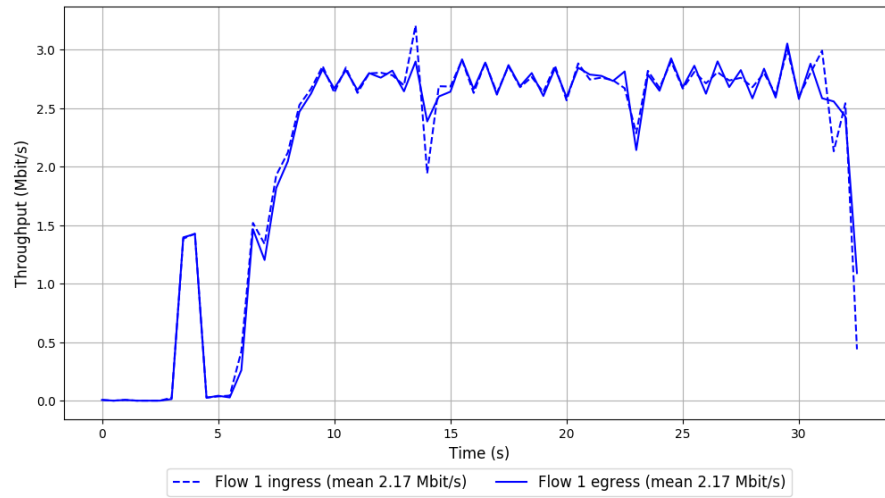
-- Flow 1:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 113.161 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-02-12 22:51:00

End at: 2018-02-12 22:51:30

Below is generated by plot.py at 2018-02-13 02:13:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 111.664 ms

Loss rate: 0.00%

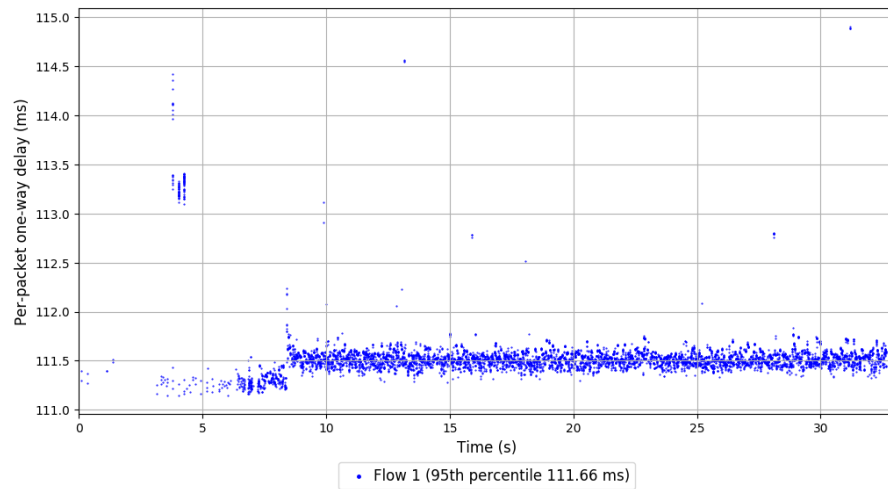
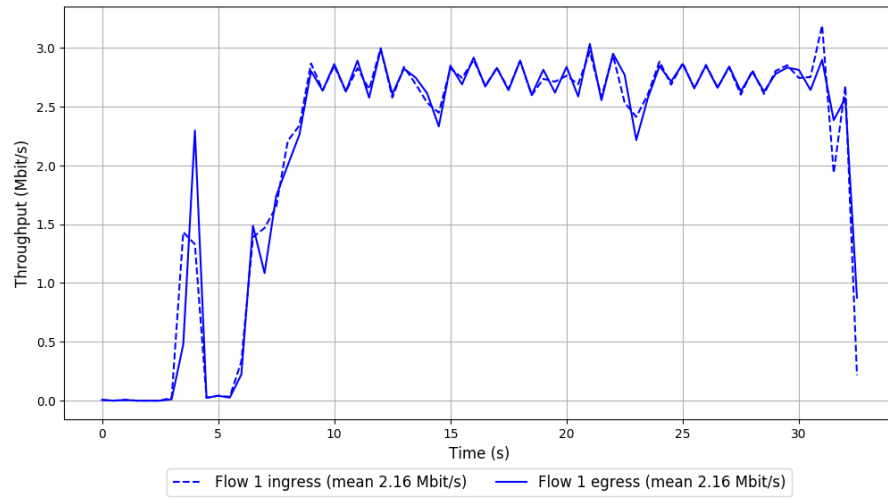
-- Flow 1:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 111.664 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-02-12 23:06:36

End at: 2018-02-12 23:07:06

Below is generated by plot.py at 2018-02-13 02:13:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 113.075 ms

Loss rate: 0.00%

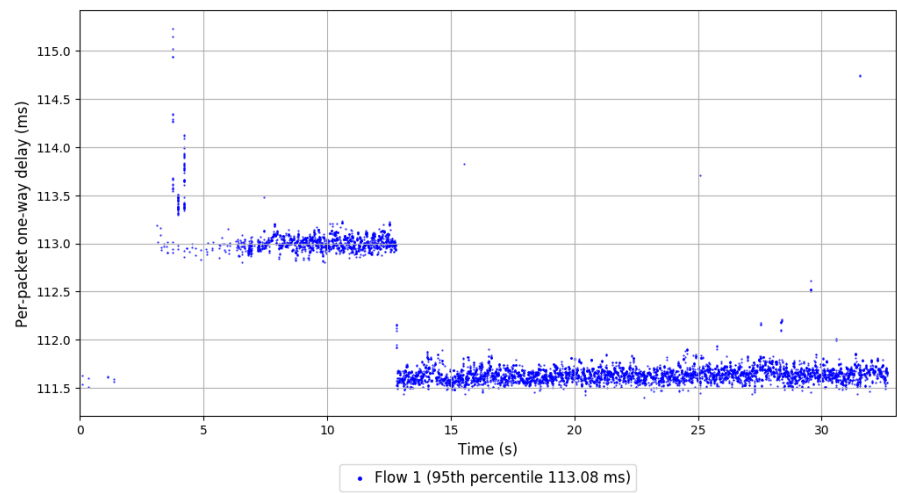
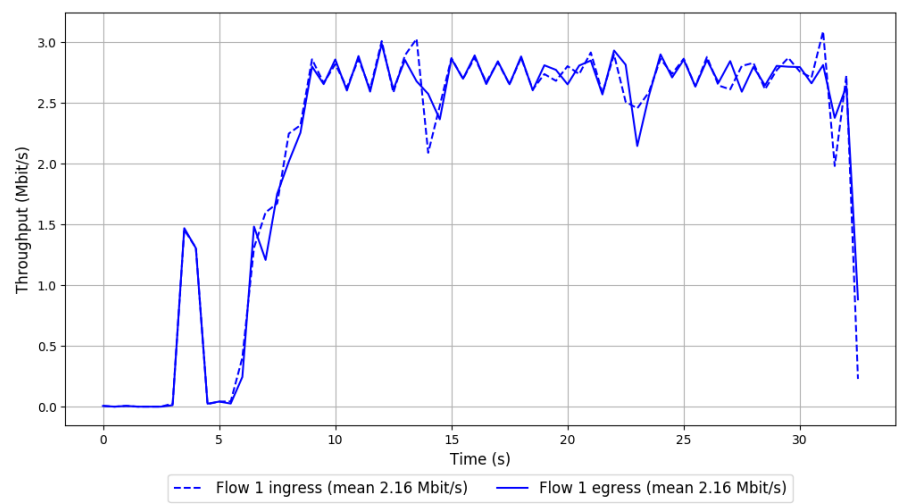
-- Flow 1:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 113.075 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-02-12 23:22:07

End at: 2018-02-12 23:22:37

Below is generated by plot.py at 2018-02-13 02:13:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 113.856 ms

Loss rate: 0.00%

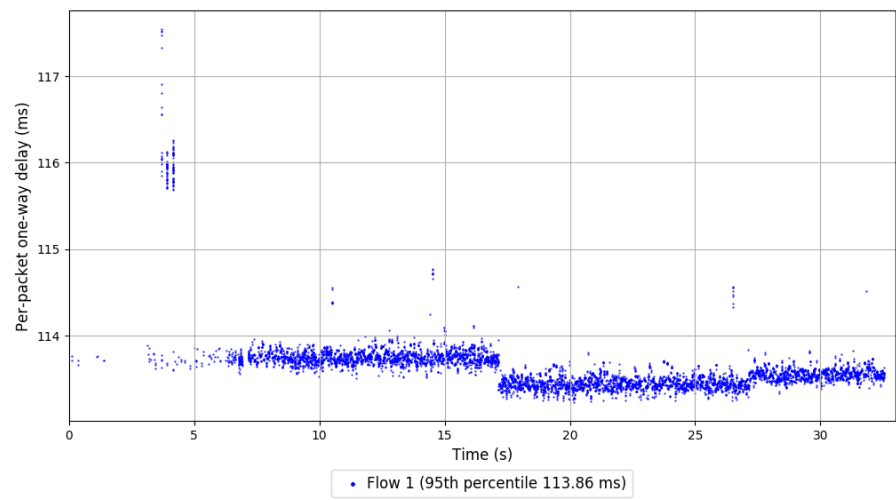
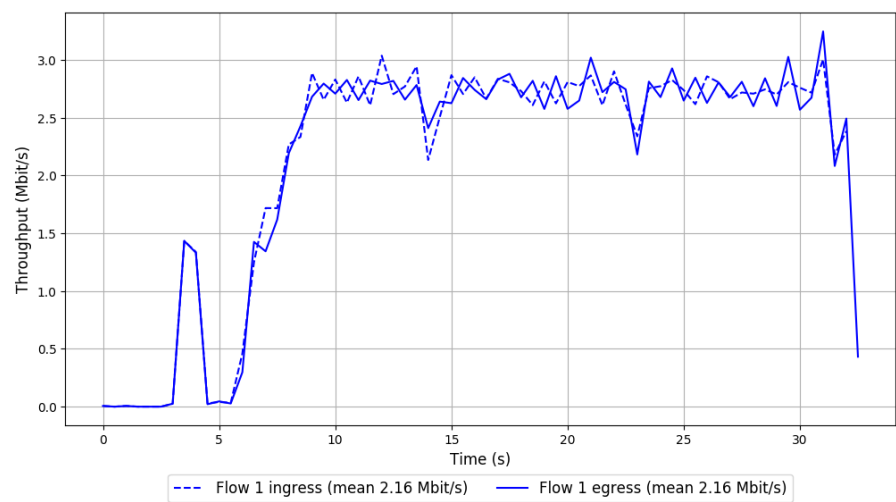
-- Flow 1:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 113.856 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-02-12 23:37:29

End at: 2018-02-12 23:37:59

Below is generated by plot.py at 2018-02-13 02:13:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 113.679 ms

Loss rate: 0.00%

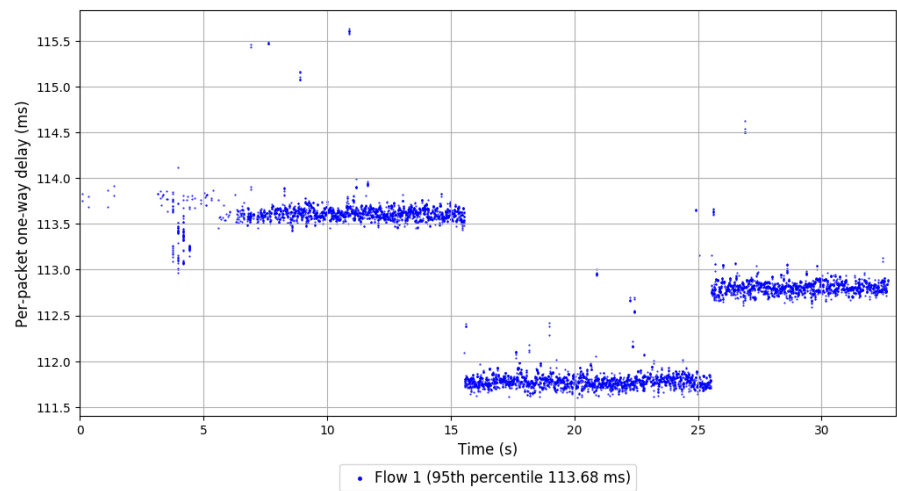
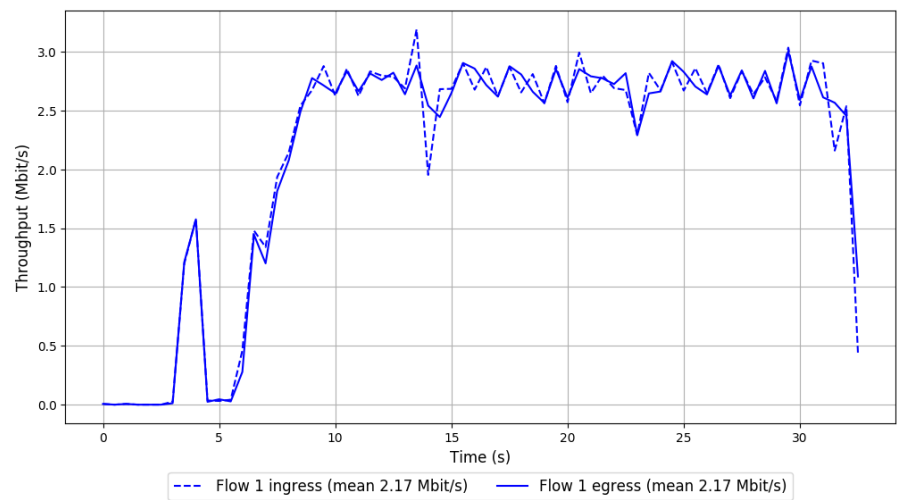
-- Flow 1:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 113.679 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-02-12 23:53:11

End at: 2018-02-12 23:53:41

Below is generated by plot.py at 2018-02-13 02:13:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 111.171 ms

Loss rate: 0.00%

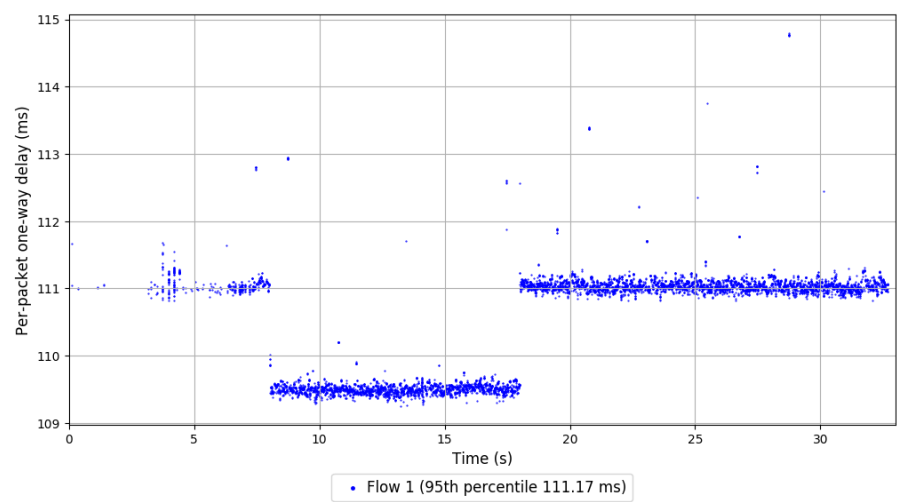
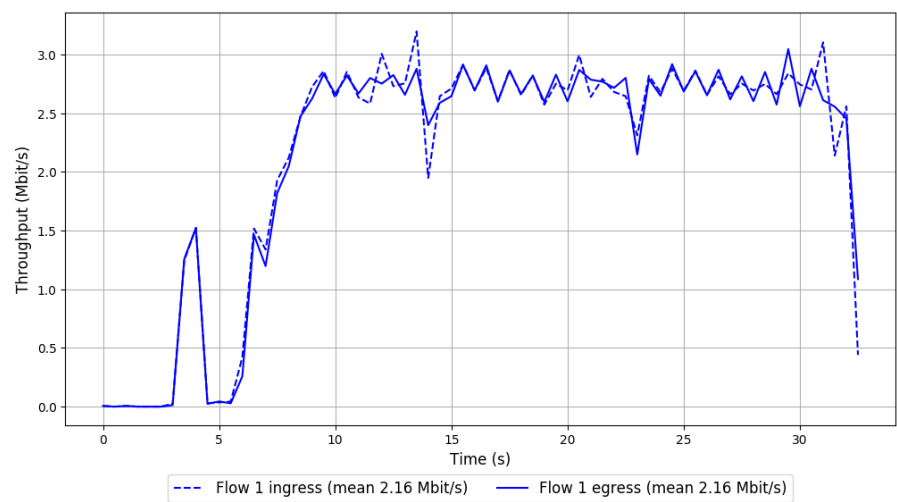
-- Flow 1:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 111.171 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-02-13 00:08:29

End at: 2018-02-13 00:08:59

Below is generated by plot.py at 2018-02-13 02:13:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.31 Mbit/s

95th percentile per-packet one-way delay: 111.466 ms

Loss rate: 0.00%

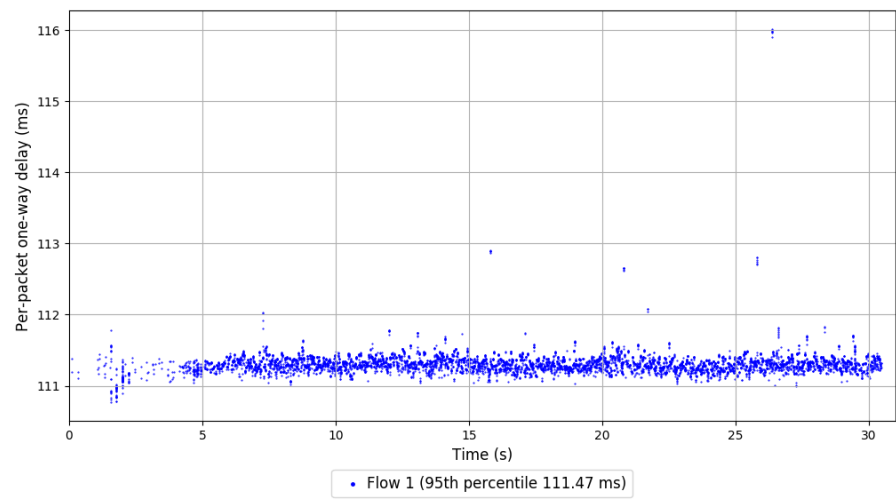
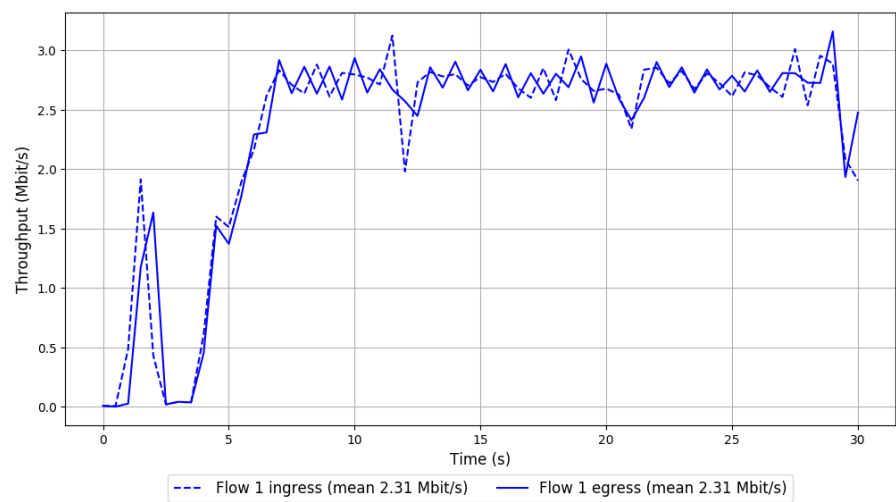
-- Flow 1:

Average throughput: 2.31 Mbit/s

95th percentile per-packet one-way delay: 111.466 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-02-13 00:24:09

End at: 2018-02-13 00:24:39

Below is generated by plot.py at 2018-02-13 02:13:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.18 Mbit/s

95th percentile per-packet one-way delay: 112.003 ms

Loss rate: 0.00%

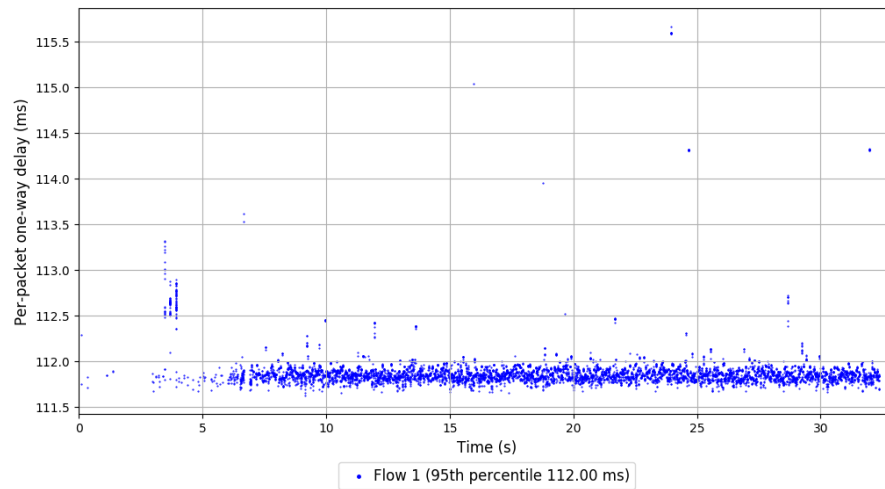
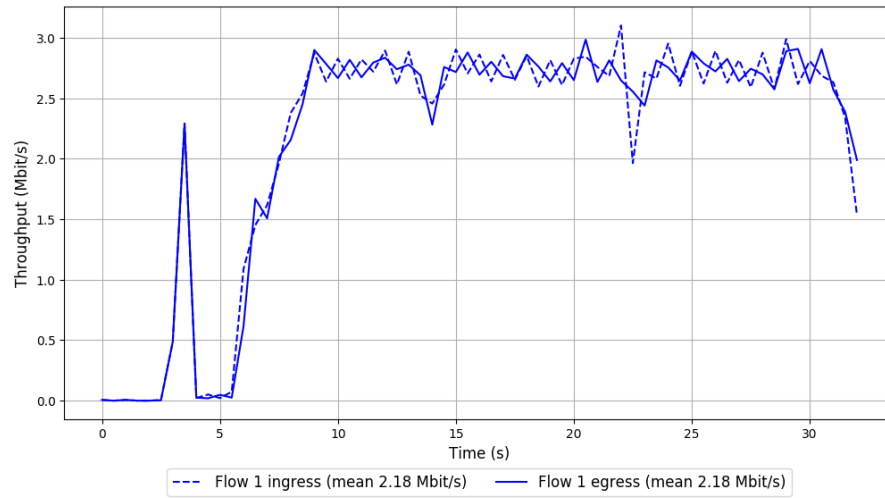
-- Flow 1:

Average throughput: 2.18 Mbit/s

95th percentile per-packet one-way delay: 112.003 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2018-02-12 22:02:23

End at: 2018-02-12 22:02:53

Below is generated by plot.py at 2018-02-13 02:13:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.79 Mbit/s

95th percentile per-packet one-way delay: 115.033 ms

Loss rate: 0.27%

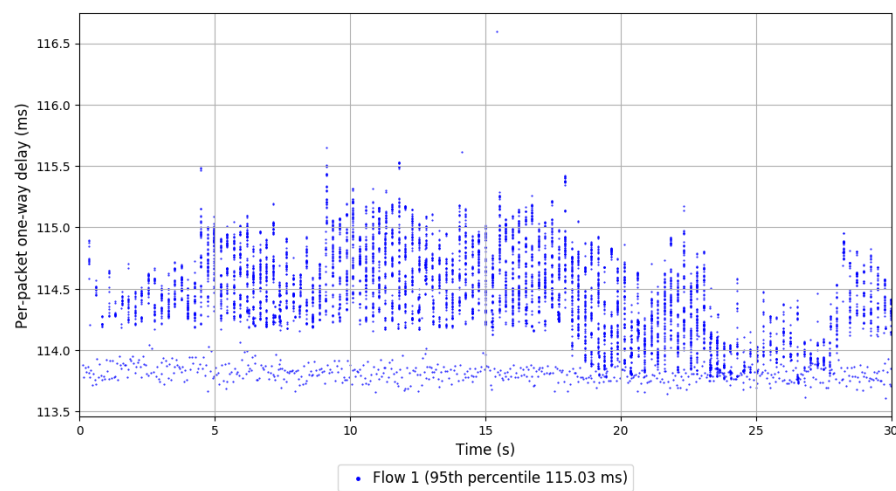
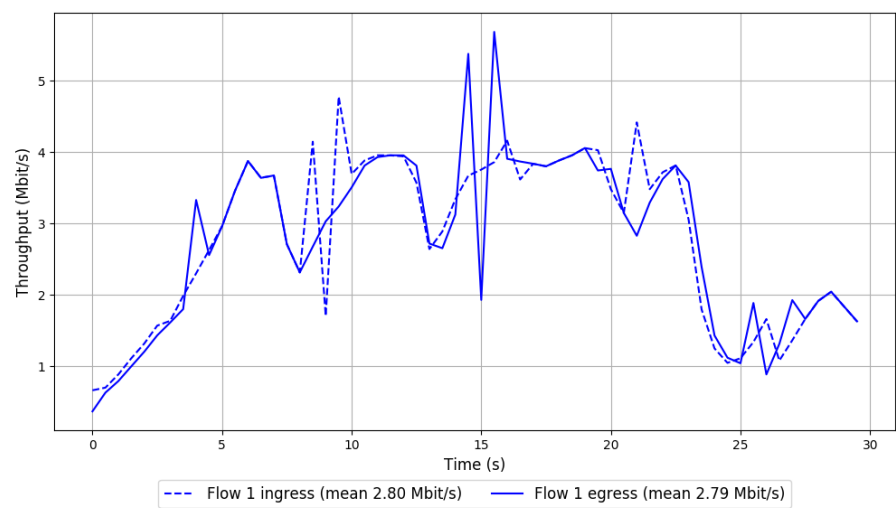
-- Flow 1:

Average throughput: 2.79 Mbit/s

95th percentile per-packet one-way delay: 115.033 ms

Loss rate: 0.27%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-02-12 22:17:52

End at: 2018-02-12 22:18:22

Below is generated by plot.py at 2018-02-13 02:13:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 113.579 ms

Loss rate: 0.39%

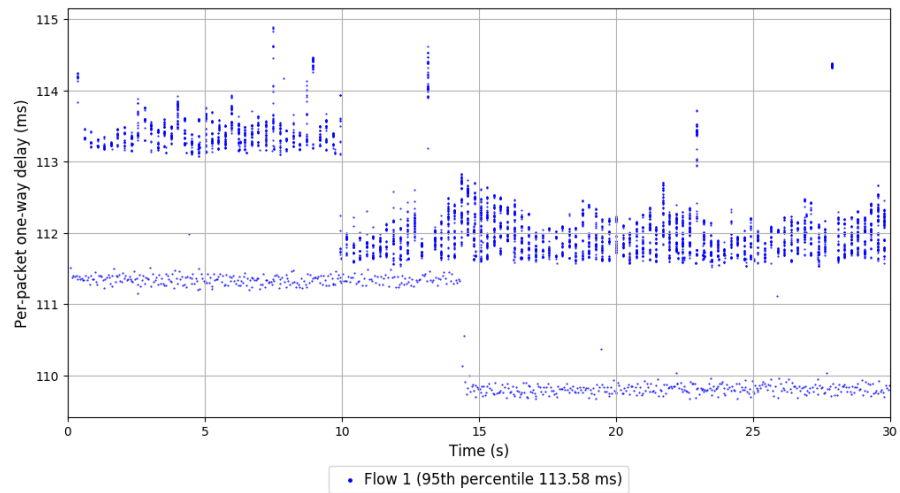
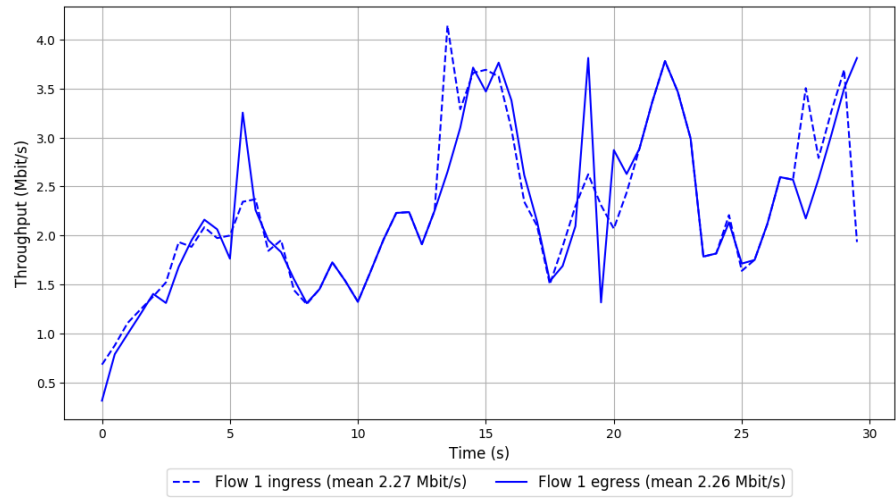
-- Flow 1:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 113.579 ms

Loss rate: 0.39%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-02-12 22:33:22

End at: 2018-02-12 22:33:52

Below is generated by plot.py at 2018-02-13 02:13:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.61 Mbit/s

95th percentile per-packet one-way delay: 113.867 ms

Loss rate: 0.02%

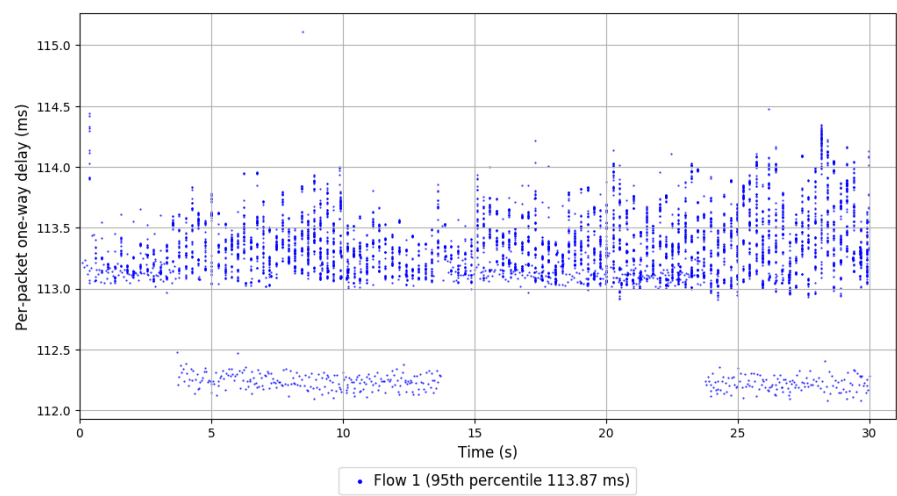
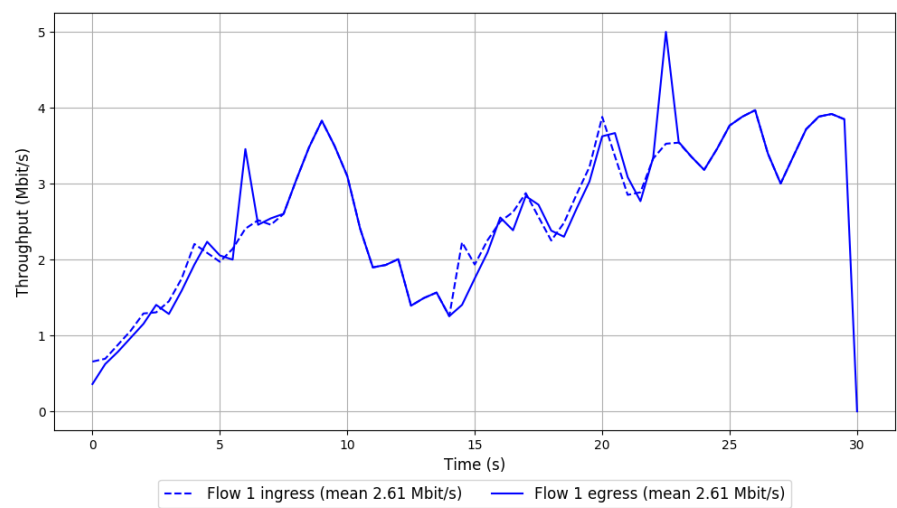
-- Flow 1:

Average throughput: 2.61 Mbit/s

95th percentile per-packet one-way delay: 113.867 ms

Loss rate: 0.02%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-02-12 22:48:46

End at: 2018-02-12 22:49:16

Below is generated by plot.py at 2018-02-13 02:13:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.79 Mbit/s

95th percentile per-packet one-way delay: 111.870 ms

Loss rate: 0.26%

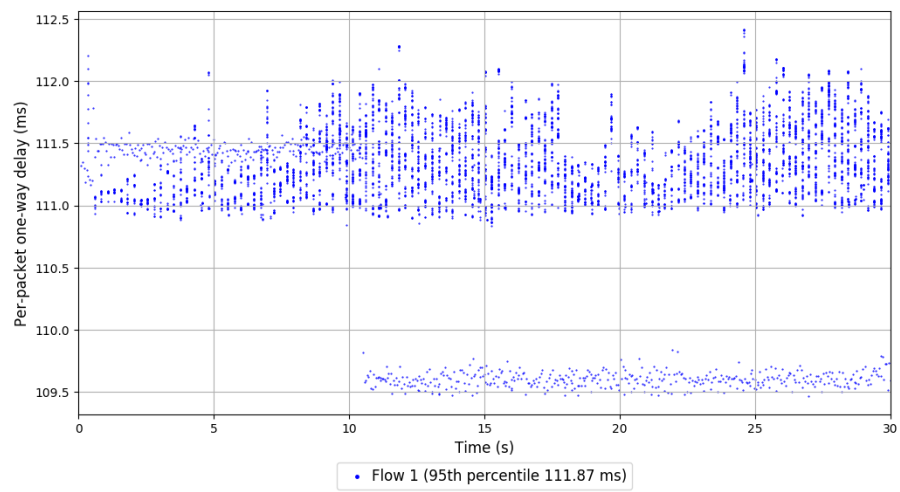
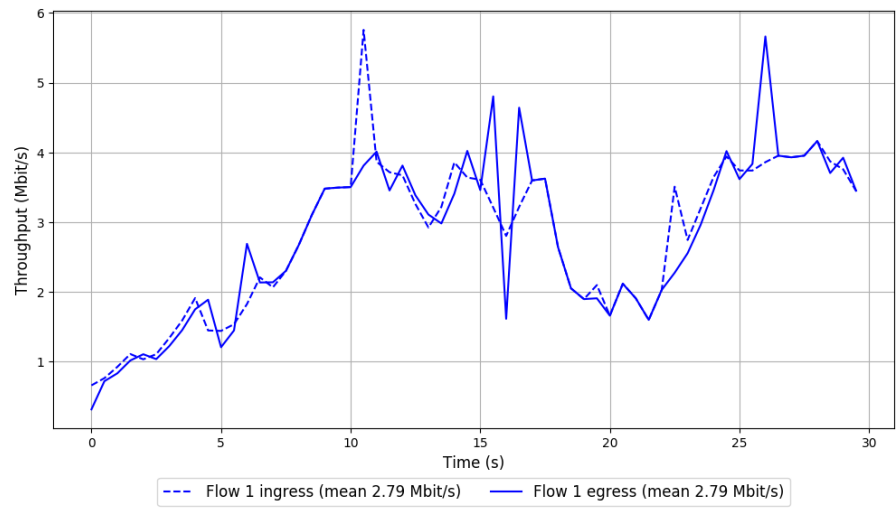
-- Flow 1:

Average throughput: 2.79 Mbit/s

95th percentile per-packet one-way delay: 111.870 ms

Loss rate: 0.26%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-02-12 23:04:21

End at: 2018-02-12 23:04:51

Below is generated by plot.py at 2018-02-13 02:13:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.76 Mbit/s

95th percentile per-packet one-way delay: 115.212 ms

Loss rate: 0.39%

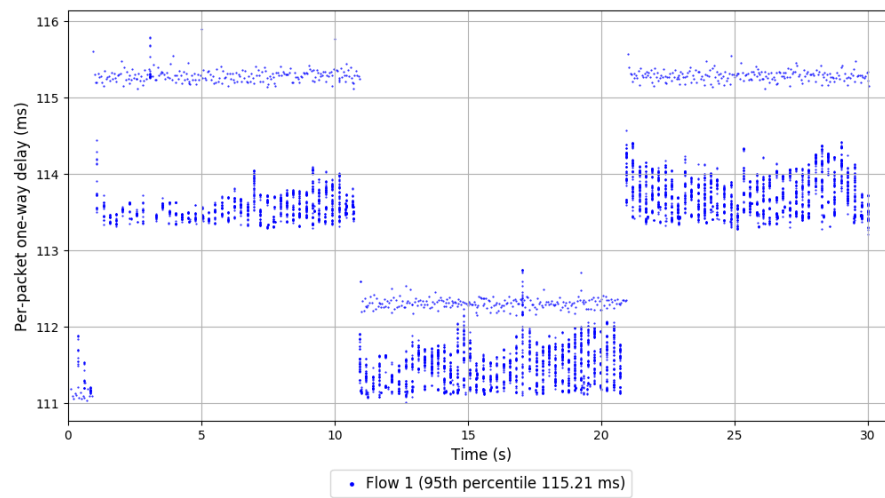
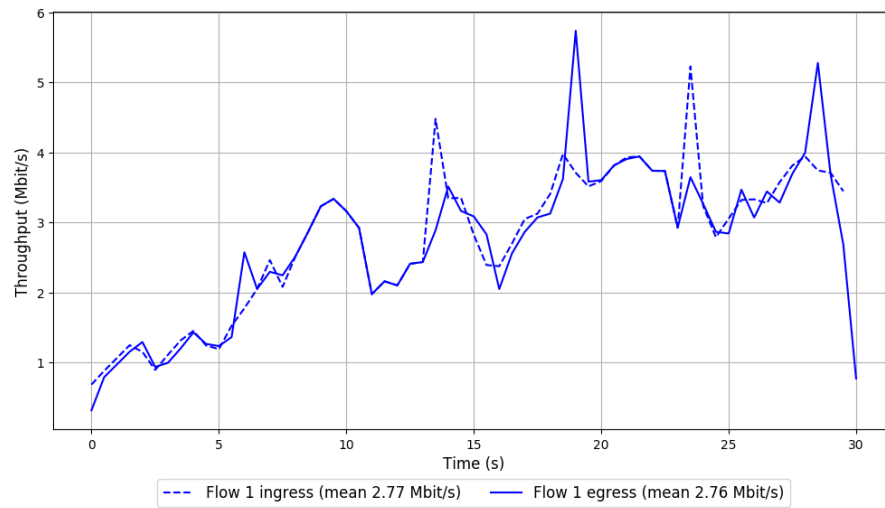
-- Flow 1:

Average throughput: 2.76 Mbit/s

95th percentile per-packet one-way delay: 115.212 ms

Loss rate: 0.39%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-02-12 23:19:52

End at: 2018-02-12 23:20:22

Below is generated by plot.py at 2018-02-13 02:13:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.69 Mbit/s

95th percentile per-packet one-way delay: 116.221 ms

Loss rate: 0.09%

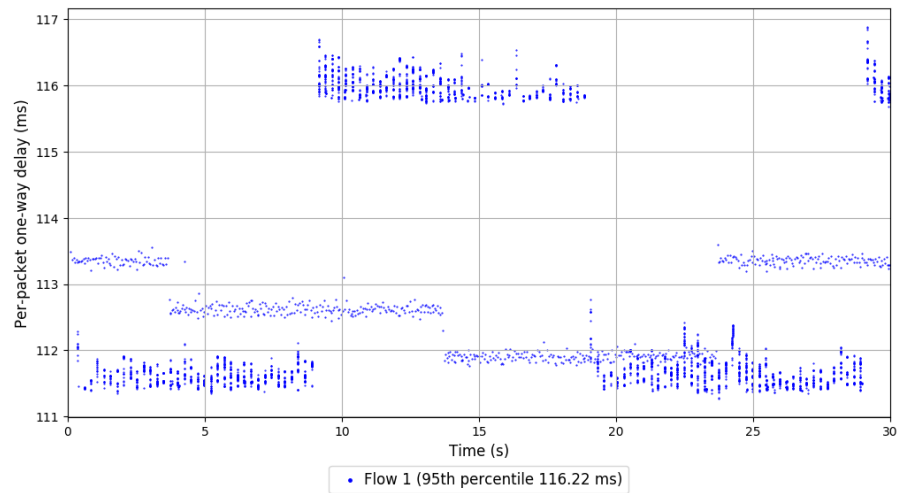
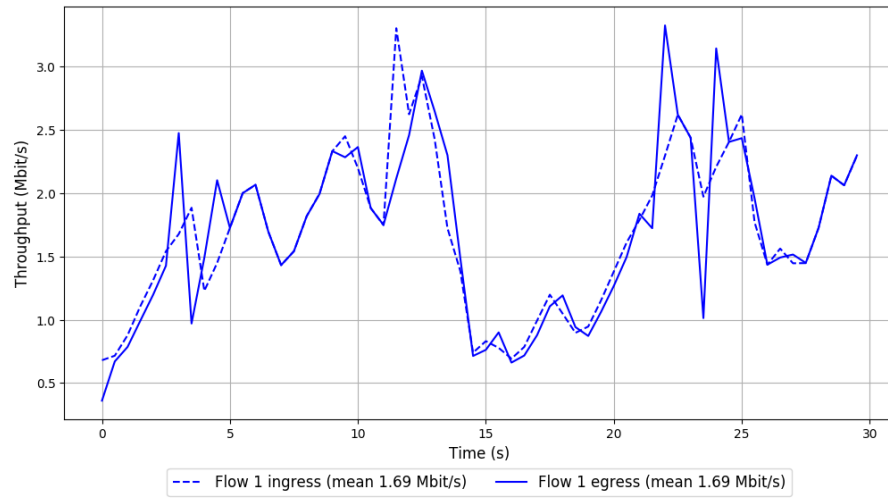
-- Flow 1:

Average throughput: 1.69 Mbit/s

95th percentile per-packet one-way delay: 116.221 ms

Loss rate: 0.09%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-02-12 23:35:14

End at: 2018-02-12 23:35:44

Below is generated by plot.py at 2018-02-13 02:13:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 116.329 ms

Loss rate: 0.29%

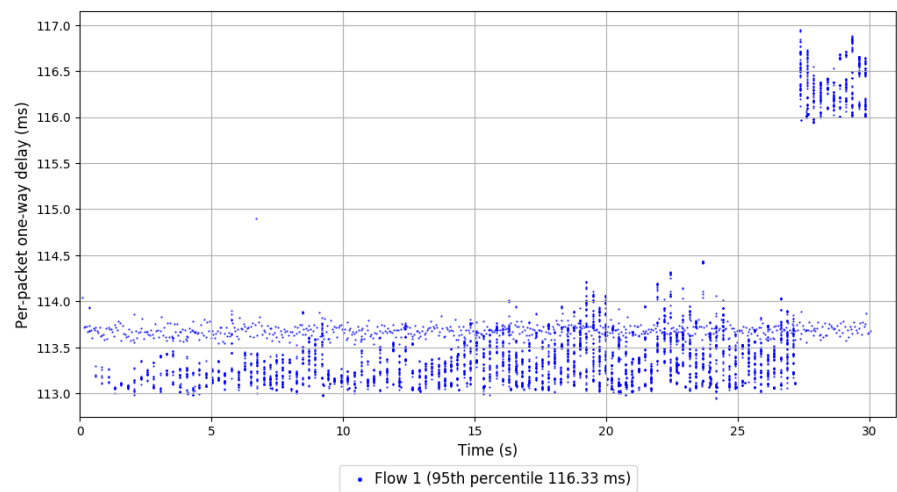
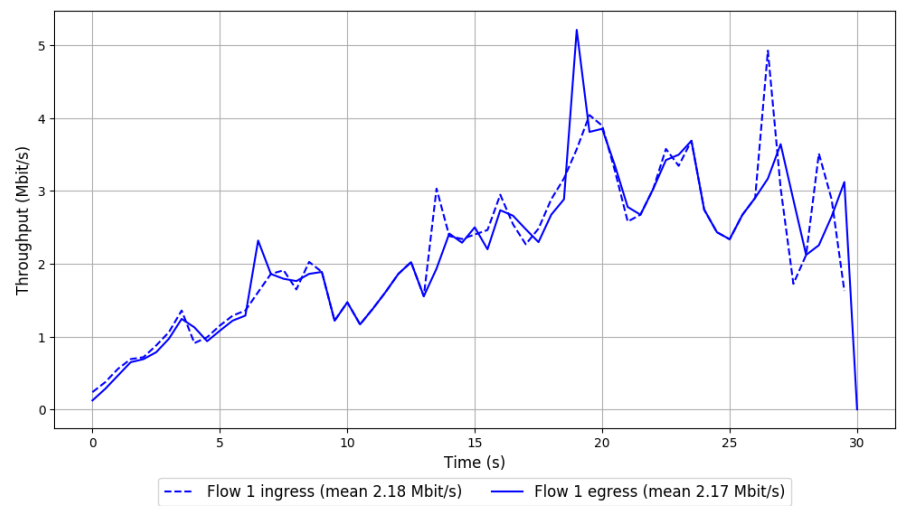
-- Flow 1:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 116.329 ms

Loss rate: 0.29%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-02-12 23:50:56

End at: 2018-02-12 23:51:26

Below is generated by plot.py at 2018-02-13 02:13:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.81 Mbit/s

95th percentile per-packet one-way delay: 112.351 ms

Loss rate: 0.76%

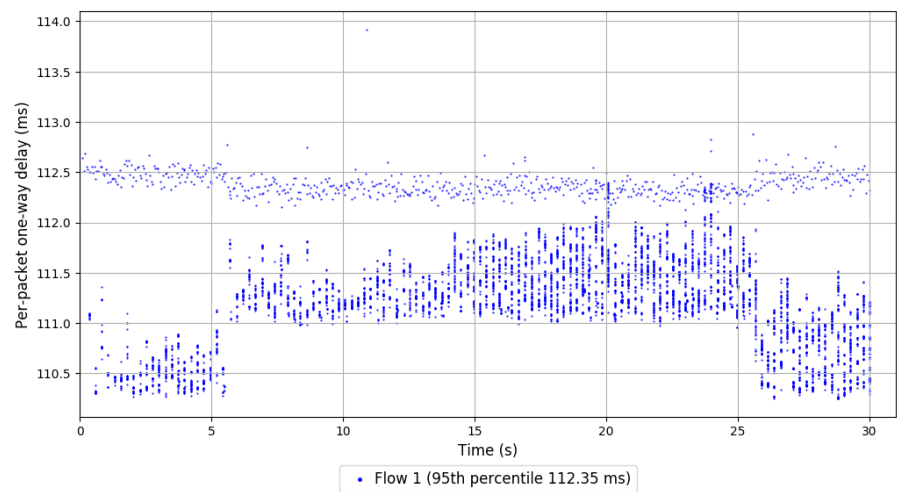
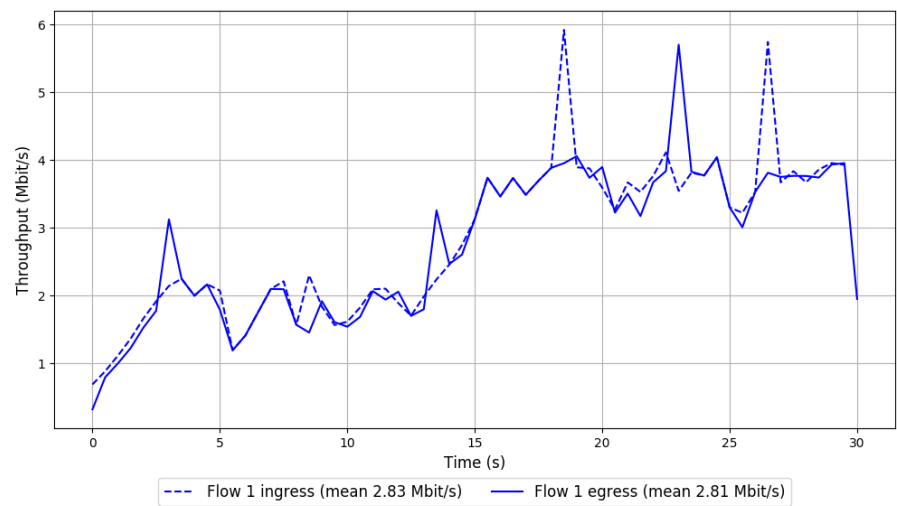
-- Flow 1:

Average throughput: 2.81 Mbit/s

95th percentile per-packet one-way delay: 112.351 ms

Loss rate: 0.76%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-02-13 00:06:14

End at: 2018-02-13 00:06:44

Below is generated by plot.py at 2018-02-13 02:13:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.21 Mbit/s

95th percentile per-packet one-way delay: 110.982 ms

Loss rate: 0.09%

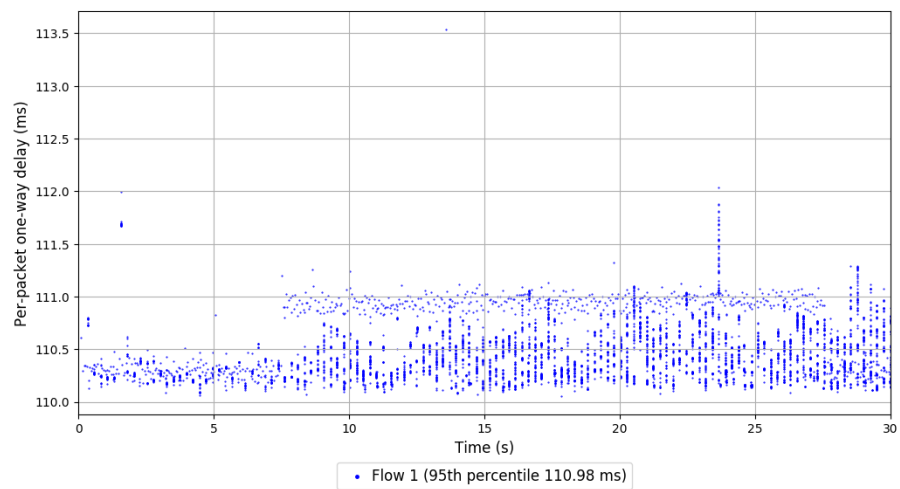
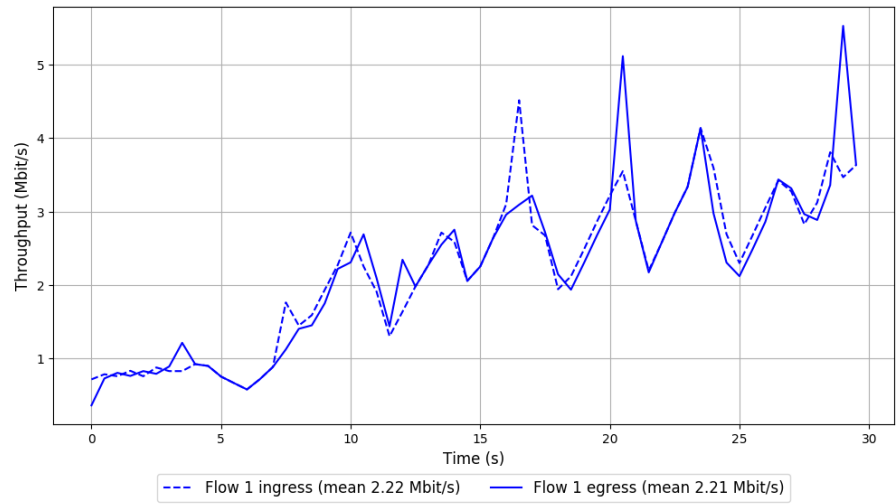
-- Flow 1:

Average throughput: 2.21 Mbit/s

95th percentile per-packet one-way delay: 110.982 ms

Loss rate: 0.09%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-02-13 00:21:55

End at: 2018-02-13 00:22:25

Below is generated by plot.py at 2018-02-13 02:13:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.43 Mbit/s

95th percentile per-packet one-way delay: 113.516 ms

Loss rate: 0.11%

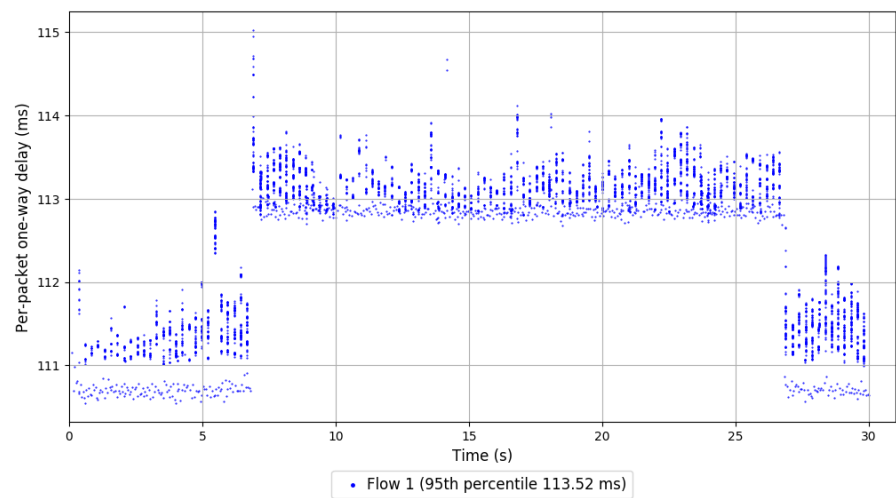
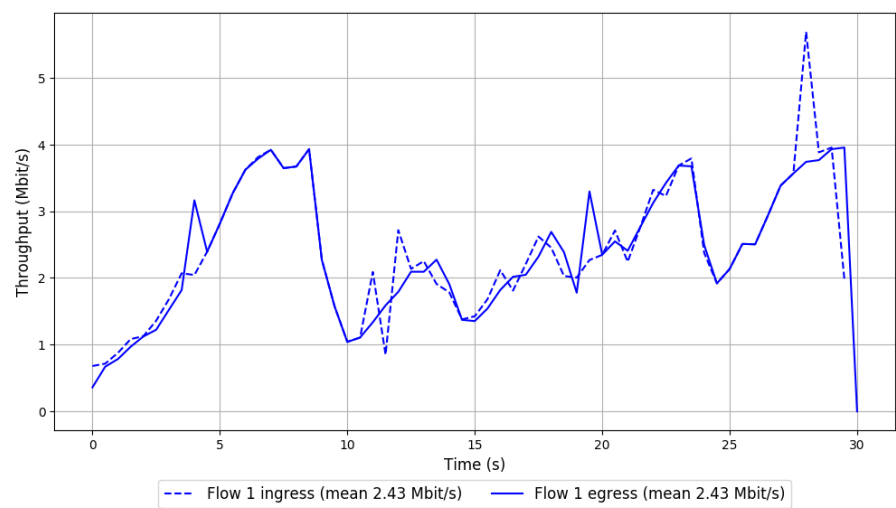
-- Flow 1:

Average throughput: 2.43 Mbit/s

95th percentile per-packet one-way delay: 113.516 ms

Loss rate: 0.11%

Run 10: Report of Sprout — Data Link

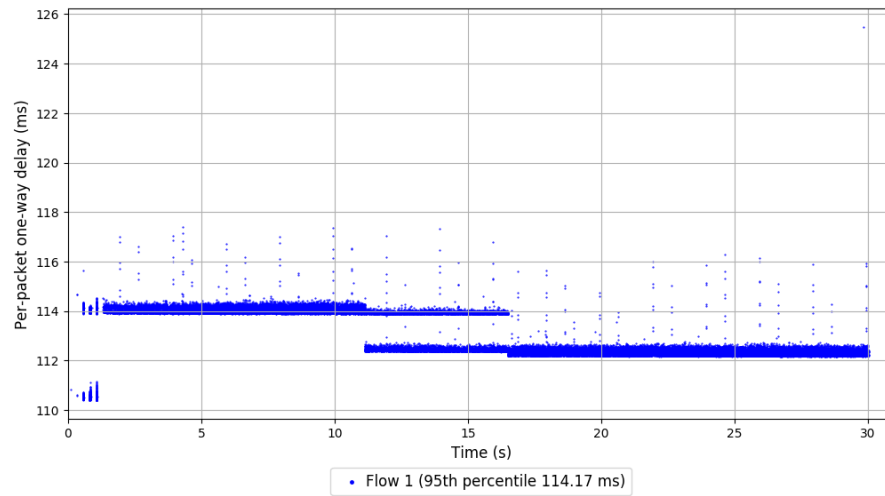
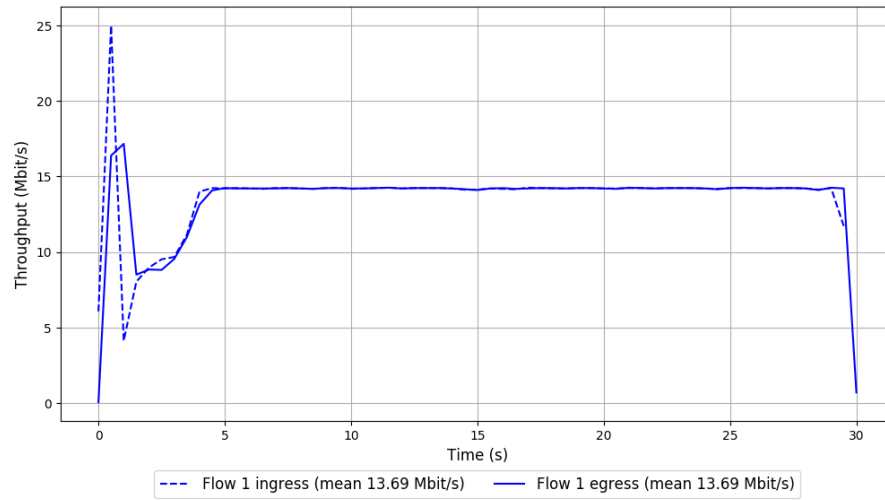


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-02-12 22:00:35
End at: 2018-02-12 22:01:05

# Below is generated by plot.py at 2018-02-13 02:13:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 13.69 Mbit/s
95th percentile per-packet one-way delay: 114.170 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 13.69 Mbit/s
95th percentile per-packet one-way delay: 114.170 ms
Loss rate: 0.00%
```

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

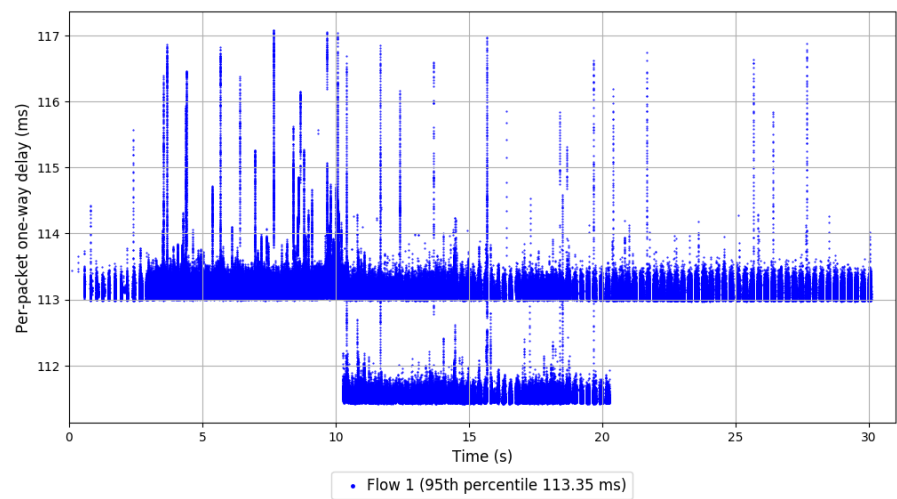
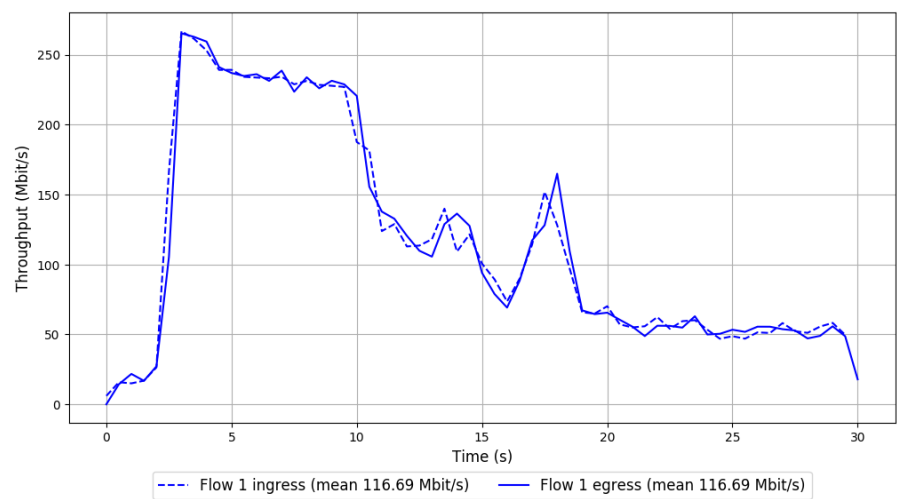


```
Run 2: Statistics of TaoVA-100x

Start at: 2018-02-12 22:15:51
End at: 2018-02-12 22:16:21

# Below is generated by plot.py at 2018-02-13 02:13:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 116.69 Mbit/s
95th percentile per-packet one-way delay: 113.346 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 116.69 Mbit/s
95th percentile per-packet one-way delay: 113.346 ms
Loss rate: 0.00%
```

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

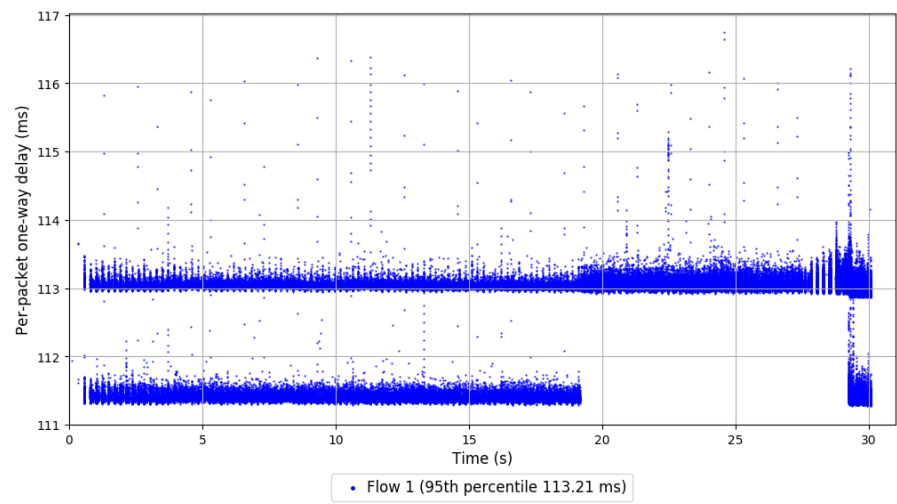
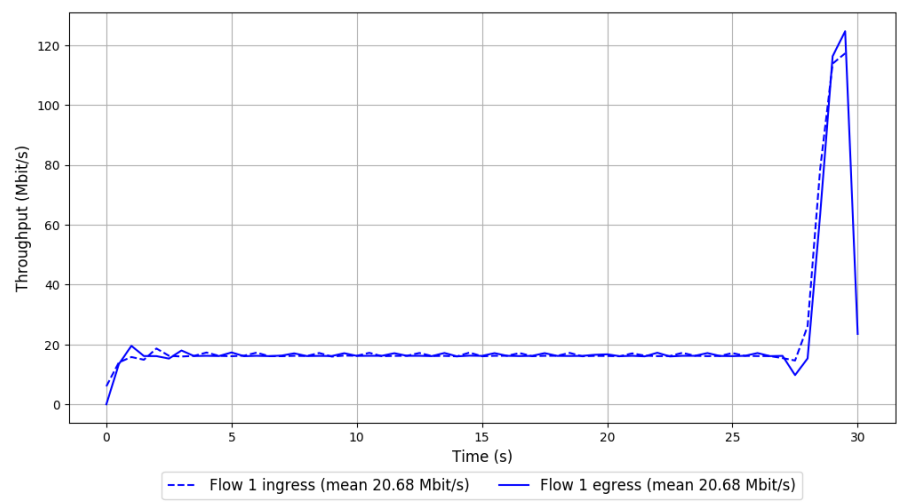


```
Run 3: Statistics of TaoVA-100x

Start at: 2018-02-12 22:31:32
End at: 2018-02-12 22:32:02

# Below is generated by plot.py at 2018-02-13 02:13:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 20.68 Mbit/s
95th percentile per-packet one-way delay: 113.213 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 20.68 Mbit/s
95th percentile per-packet one-way delay: 113.213 ms
Loss rate: 0.00%
```

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-02-12 22:46:54

End at: 2018-02-12 22:47:24

Below is generated by plot.py at 2018-02-13 02:13:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 70.70 Mbit/s

95th percentile per-packet one-way delay: 113.291 ms

Loss rate: 0.00%

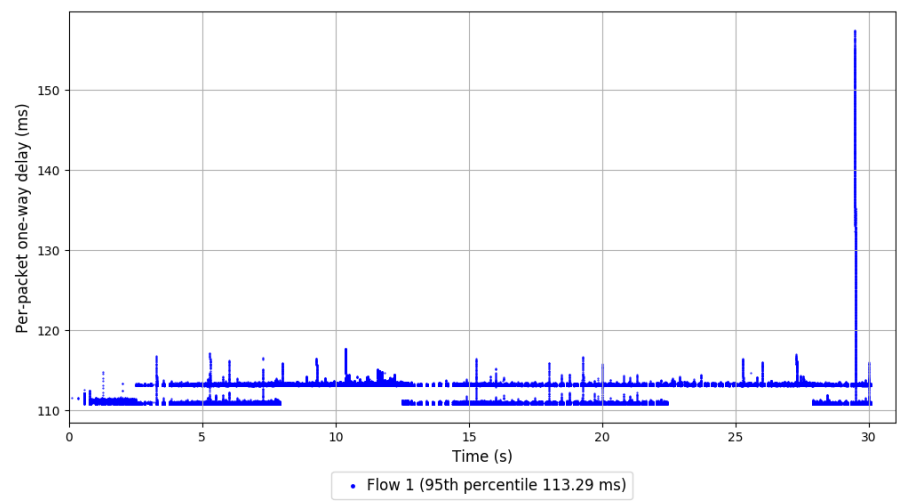
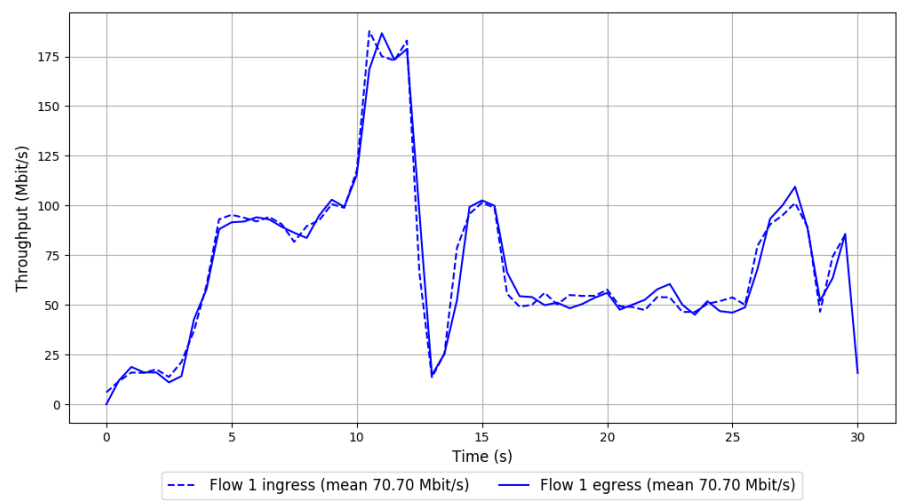
-- Flow 1:

Average throughput: 70.70 Mbit/s

95th percentile per-packet one-way delay: 113.291 ms

Loss rate: 0.00%

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

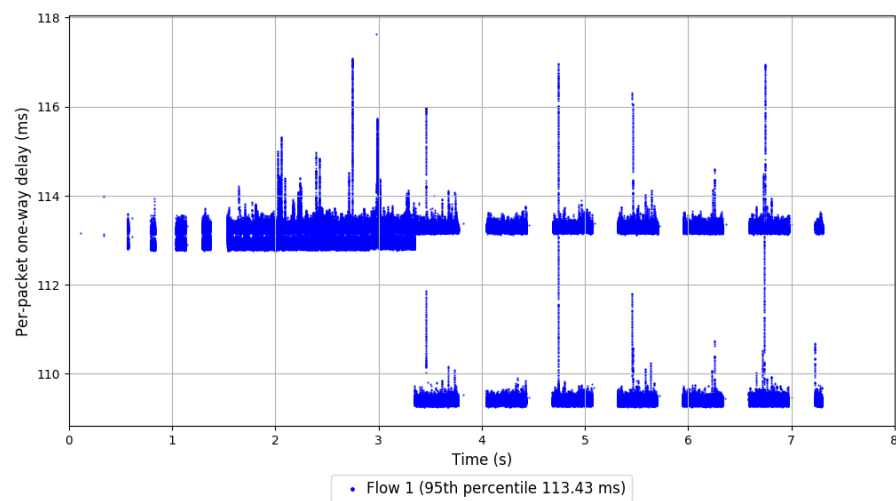
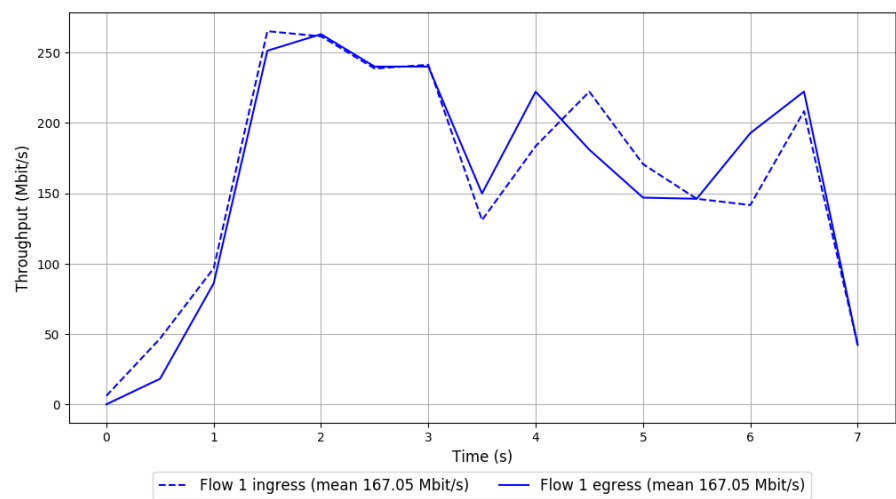


Run 5: Statistics of TaoVA-100x

Start at: 2018-02-12 23:02:28

End at: 2018-02-12 23:02:58

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-02-12 23:18:04

End at: 2018-02-12 23:18:34

Below is generated by plot.py at 2018-02-13 02:13:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.69 Mbit/s

95th percentile per-packet one-way delay: 115.679 ms

Loss rate: 0.00%

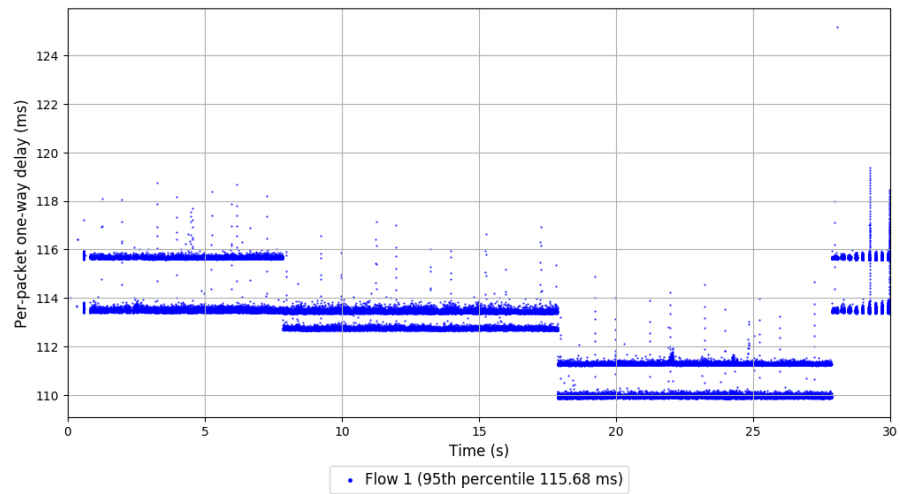
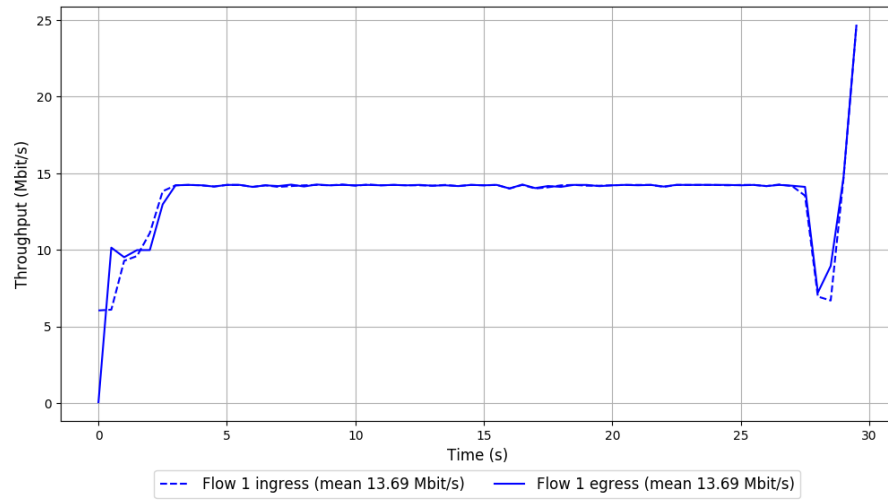
-- Flow 1:

Average throughput: 13.69 Mbit/s

95th percentile per-packet one-way delay: 115.679 ms

Loss rate: 0.00%

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

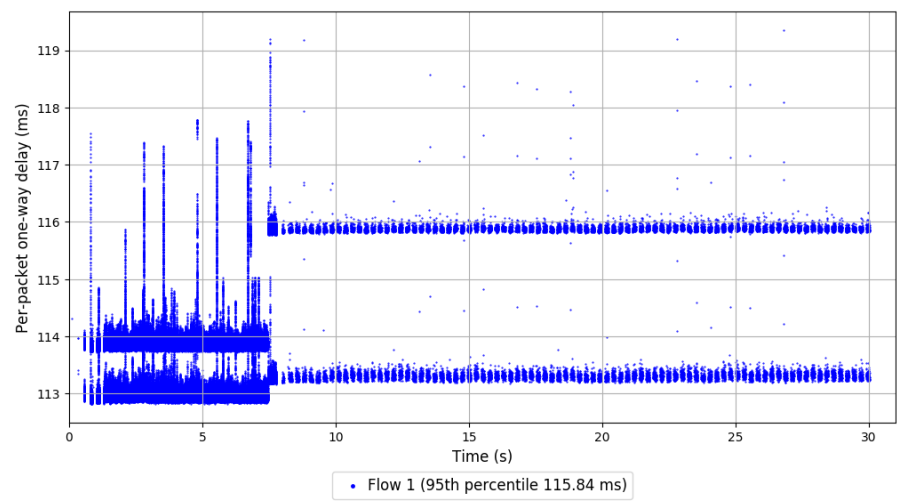
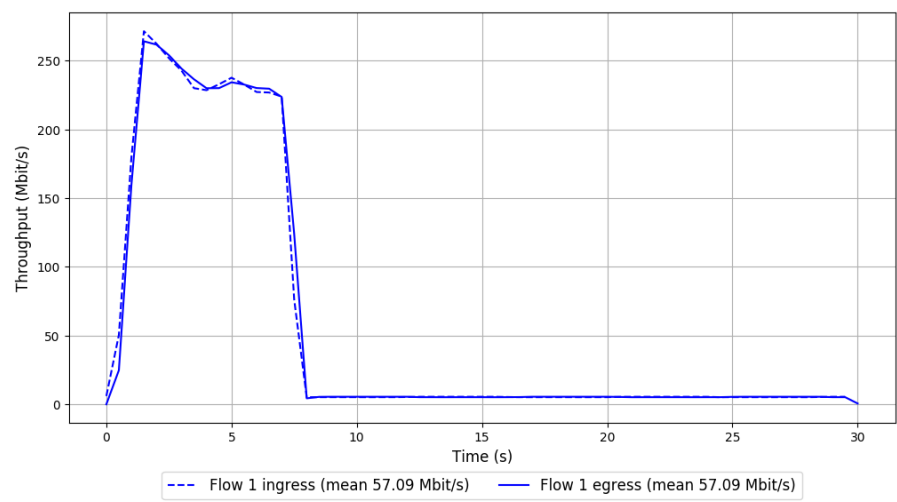


```
Run 7: Statistics of TaoVA-100x

Start at: 2018-02-12 23:33:24
End at: 2018-02-12 23:33:54

# Below is generated by plot.py at 2018-02-13 02:13:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 57.09 Mbit/s
95th percentile per-packet one-way delay: 115.843 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 57.09 Mbit/s
95th percentile per-packet one-way delay: 115.843 ms
Loss rate: 0.00%
```

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-02-12 23:48:57

End at: 2018-02-12 23:49:27

Below is generated by plot.py at 2018-02-13 02:13:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 112.77 Mbit/s

95th percentile per-packet one-way delay: 112.461 ms

Loss rate: 0.00%

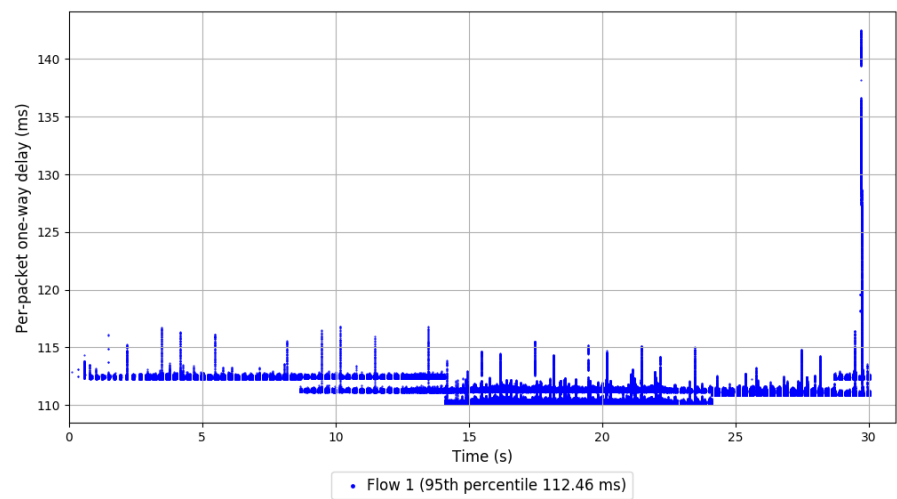
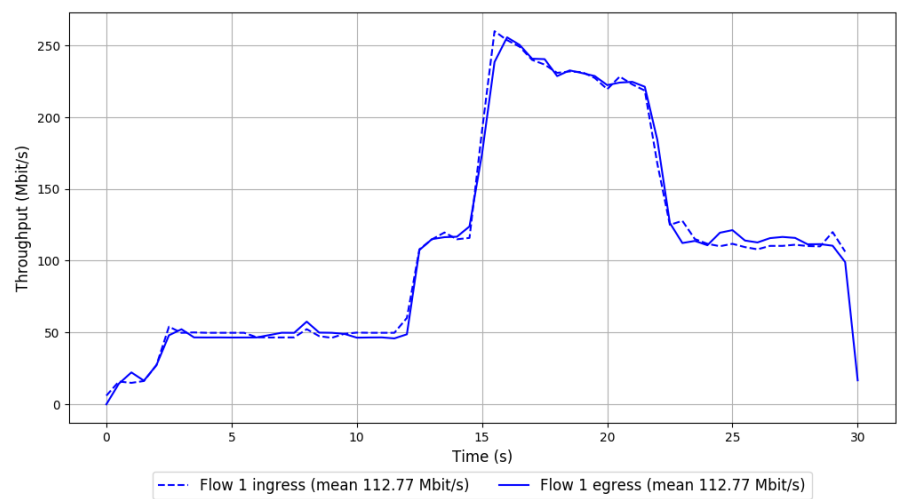
-- Flow 1:

Average throughput: 112.77 Mbit/s

95th percentile per-packet one-way delay: 112.461 ms

Loss rate: 0.00%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-02-13 00:04:25

End at: 2018-02-13 00:04:55

Below is generated by plot.py at 2018-02-13 02:13:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.27 Mbit/s

95th percentile per-packet one-way delay: 112.991 ms

Loss rate: 0.00%

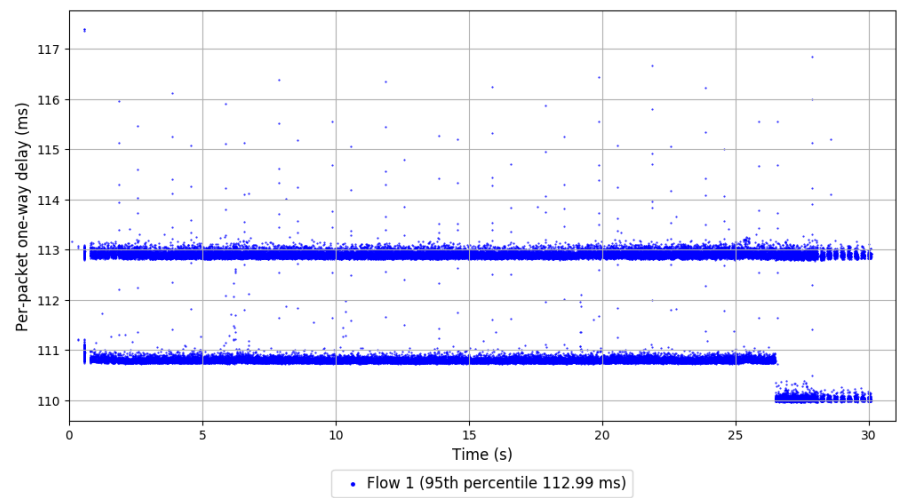
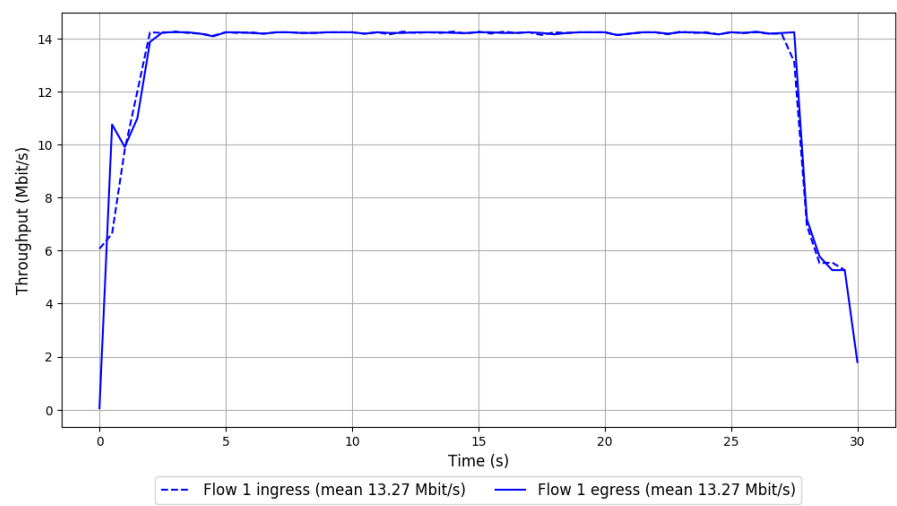
-- Flow 1:

Average throughput: 13.27 Mbit/s

95th percentile per-packet one-way delay: 112.991 ms

Loss rate: 0.00%

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

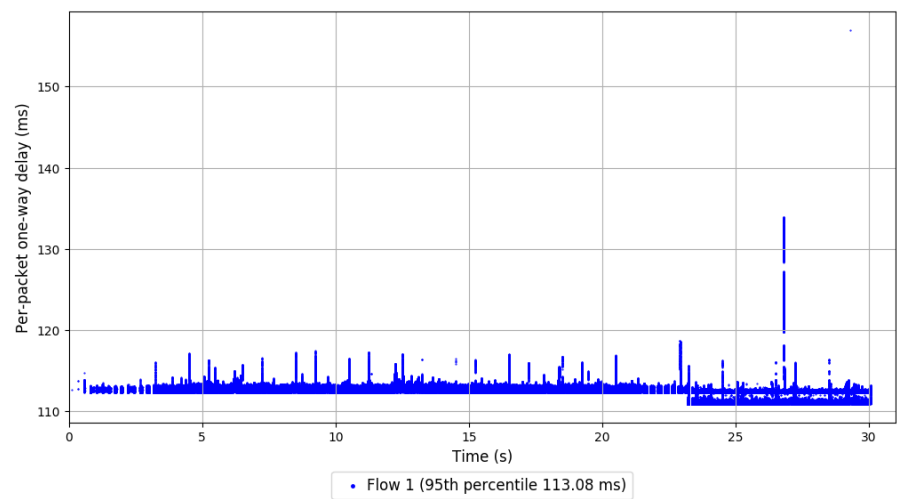
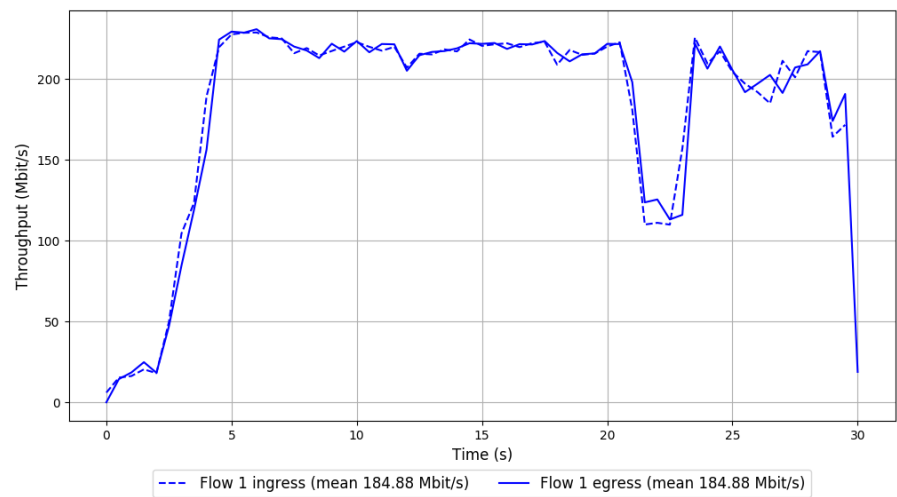


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-02-13 00:19:48
End at: 2018-02-13 00:20:18

# Below is generated by plot.py at 2018-02-13 02:13:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 184.88 Mbit/s
95th percentile per-packet one-way delay: 113.082 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 184.88 Mbit/s
95th percentile per-packet one-way delay: 113.082 ms
Loss rate: 0.00%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2018-02-12 21:59:12

End at: 2018-02-12 21:59:42

Below is generated by plot.py at 2018-02-13 02:13:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 19.10 Mbit/s

95th percentile per-packet one-way delay: 118.210 ms

Loss rate: 0.01%

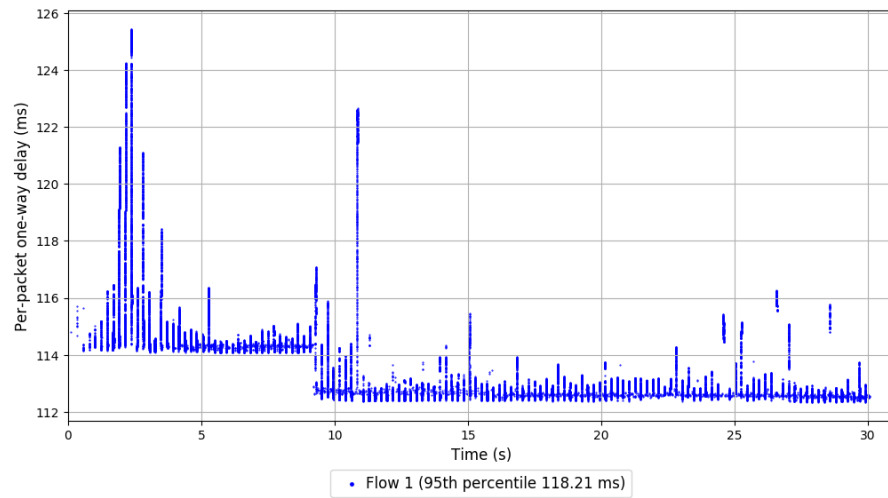
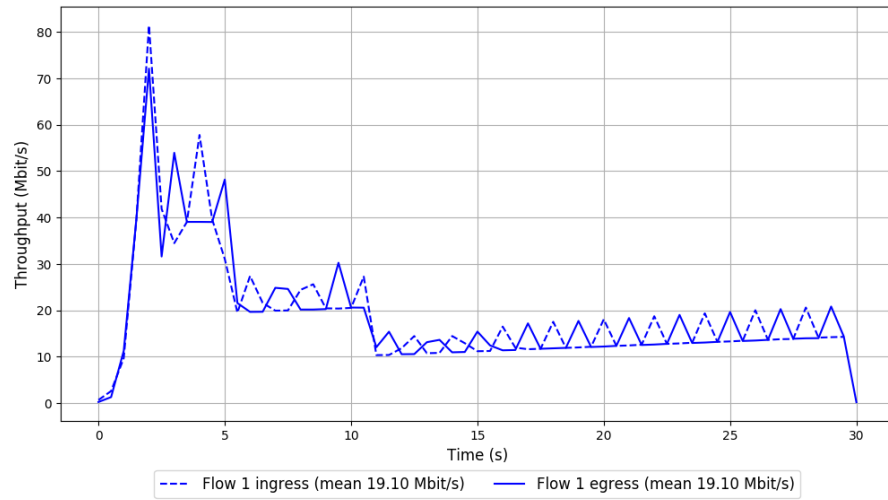
-- Flow 1:

Average throughput: 19.10 Mbit/s

95th percentile per-packet one-way delay: 118.210 ms

Loss rate: 0.01%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-02-12 22:14:27

End at: 2018-02-12 22:14:57

Below is generated by plot.py at 2018-02-13 02:13:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 43.00 Mbit/s

95th percentile per-packet one-way delay: 120.442 ms

Loss rate: 0.03%

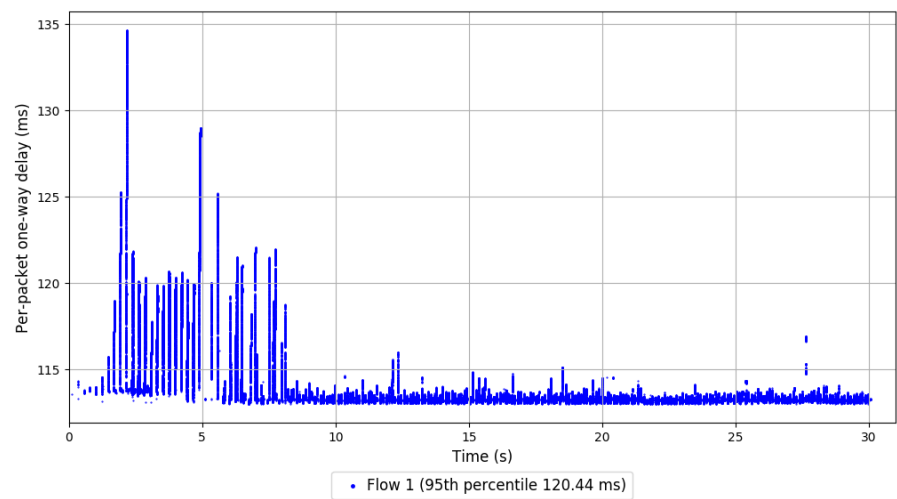
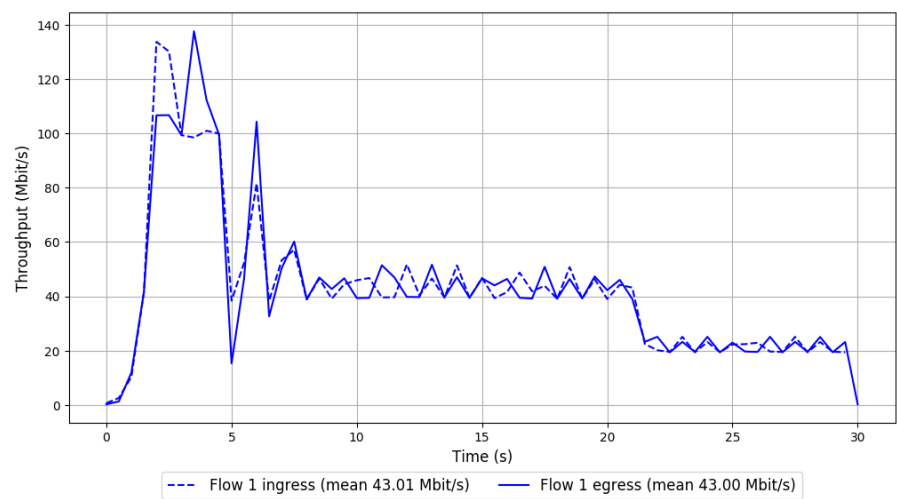
-- Flow 1:

Average throughput: 43.00 Mbit/s

95th percentile per-packet one-way delay: 120.442 ms

Loss rate: 0.03%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-02-12 22:30:09

End at: 2018-02-12 22:30:39

Below is generated by plot.py at 2018-02-13 02:13:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 27.13 Mbit/s

95th percentile per-packet one-way delay: 115.062 ms

Loss rate: 0.13%

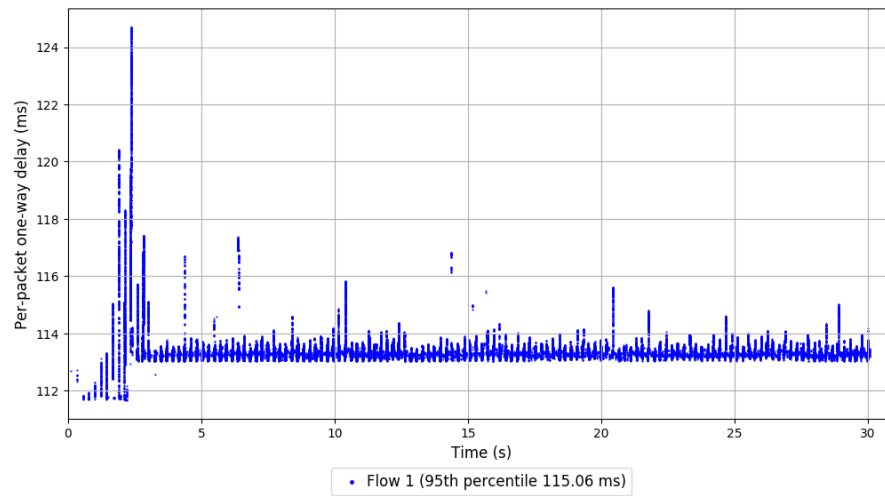
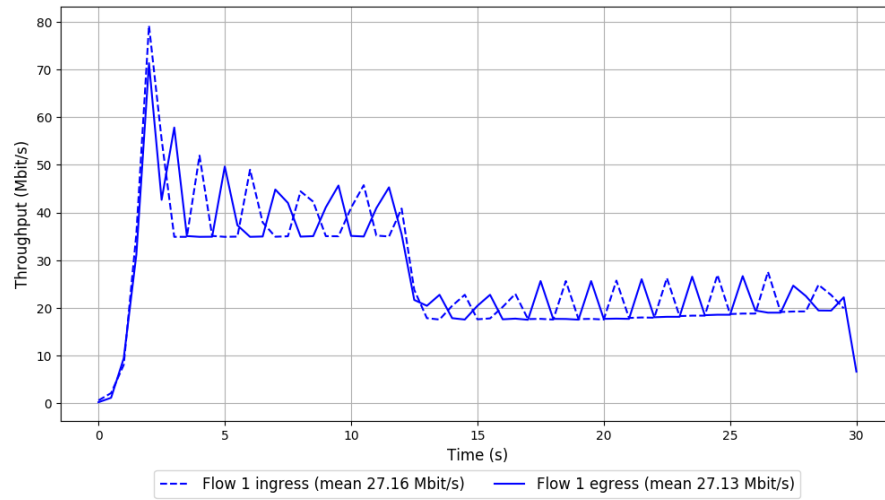
-- Flow 1:

Average throughput: 27.13 Mbit/s

95th percentile per-packet one-way delay: 115.062 ms

Loss rate: 0.13%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-02-12 22:45:31

End at: 2018-02-12 22:46:01

Below is generated by plot.py at 2018-02-13 02:13:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 19.28 Mbit/s

95th percentile per-packet one-way delay: 116.309 ms

Loss rate: 0.03%

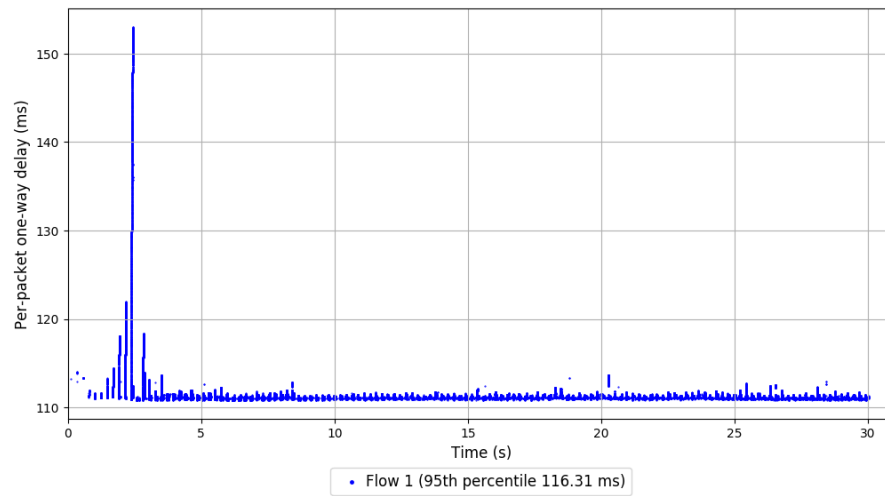
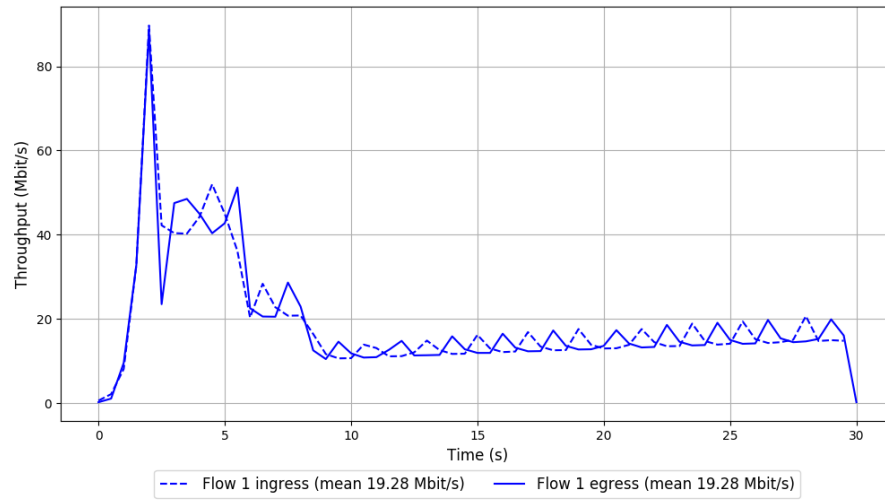
-- Flow 1:

Average throughput: 19.28 Mbit/s

95th percentile per-packet one-way delay: 116.309 ms

Loss rate: 0.03%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-02-12 23:01:04

End at: 2018-02-12 23:01:34

Below is generated by plot.py at 2018-02-13 02:13:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 36.98 Mbit/s

95th percentile per-packet one-way delay: 118.982 ms

Loss rate: 0.02%

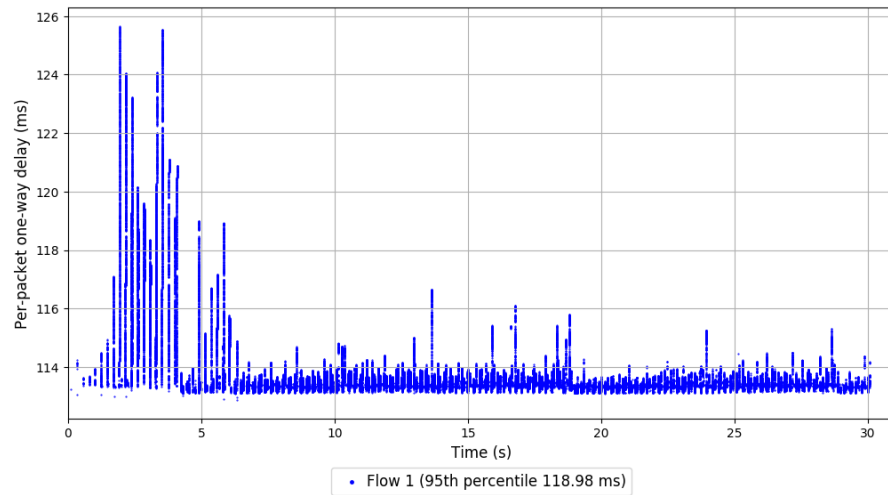
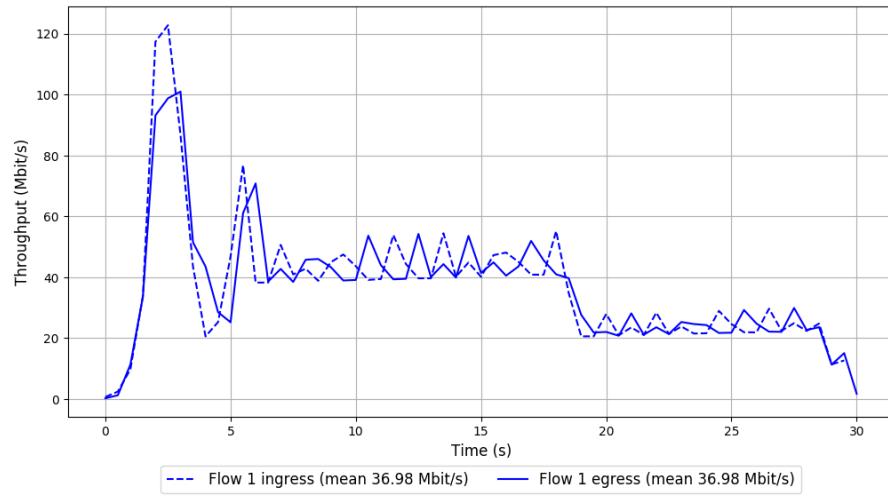
-- Flow 1:

Average throughput: 36.98 Mbit/s

95th percentile per-packet one-way delay: 118.982 ms

Loss rate: 0.02%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-02-12 23:16:42

End at: 2018-02-12 23:17:12

Below is generated by plot.py at 2018-02-13 02:13:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.48 Mbit/s

95th percentile per-packet one-way delay: 116.306 ms

Loss rate: 0.01%

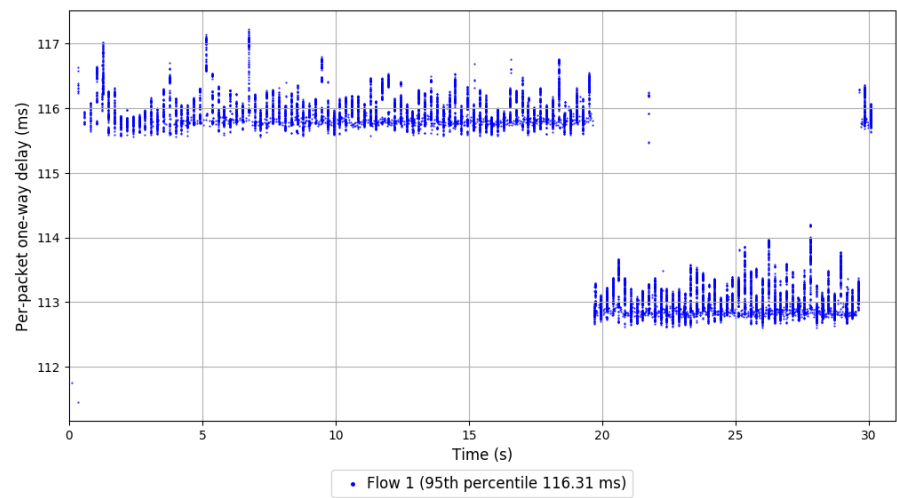
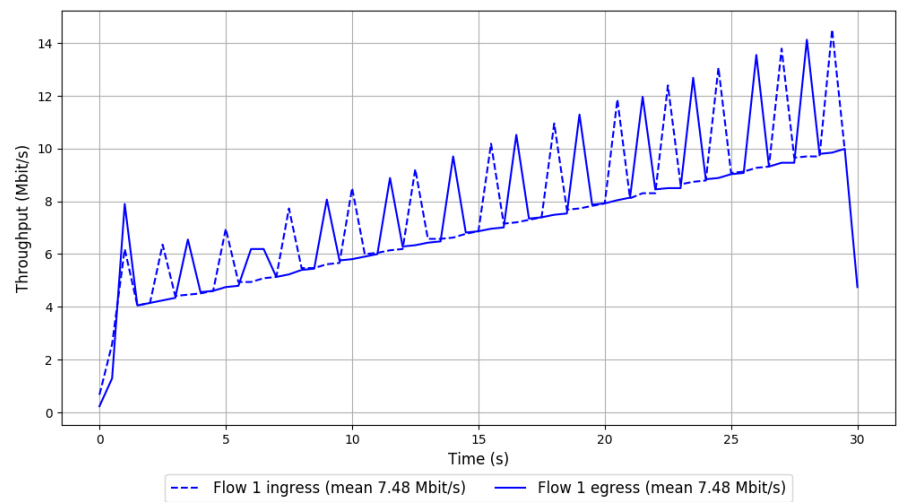
-- Flow 1:

Average throughput: 7.48 Mbit/s

95th percentile per-packet one-way delay: 116.306 ms

Loss rate: 0.01%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-02-12 23:32:00

End at: 2018-02-12 23:32:30

Below is generated by plot.py at 2018-02-13 02:13:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 45.21 Mbit/s

95th percentile per-packet one-way delay: 116.186 ms

Loss rate: 0.00%

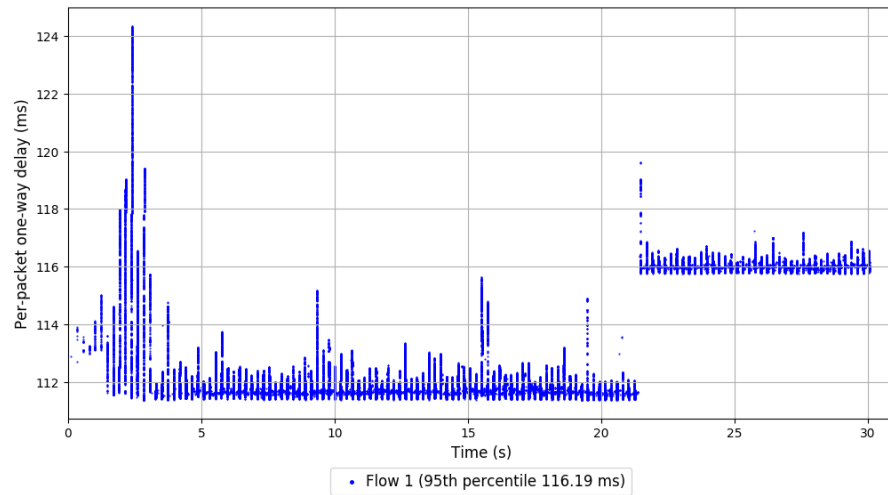
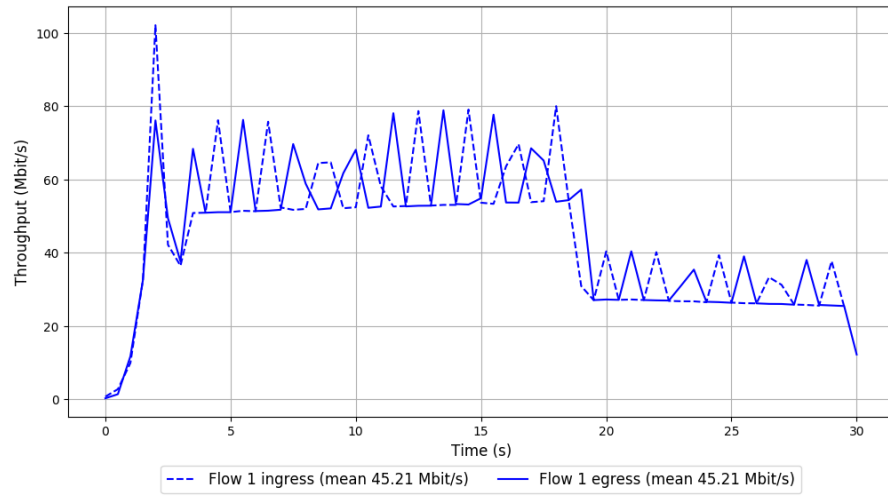
-- Flow 1:

Average throughput: 45.21 Mbit/s

95th percentile per-packet one-way delay: 116.186 ms

Loss rate: 0.00%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-02-12 23:47:34

End at: 2018-02-12 23:48:04

Below is generated by plot.py at 2018-02-13 02:13:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 31.75 Mbit/s

95th percentile per-packet one-way delay: 117.825 ms

Loss rate: 0.04%

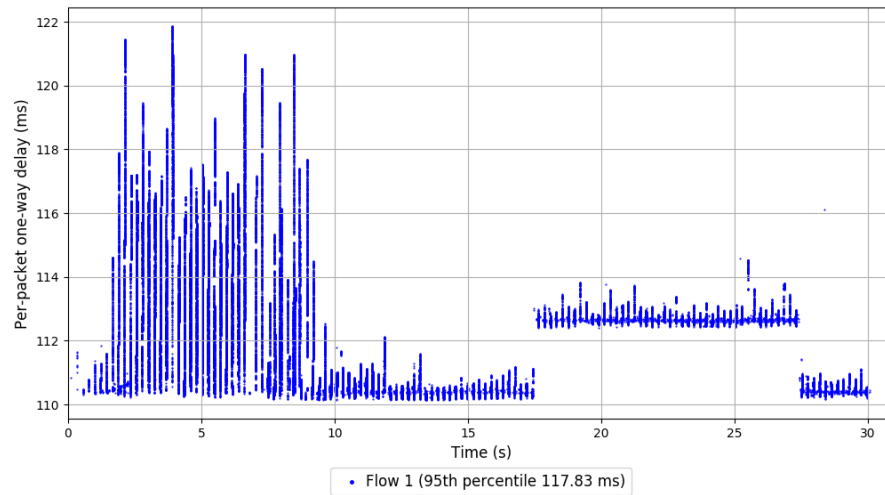
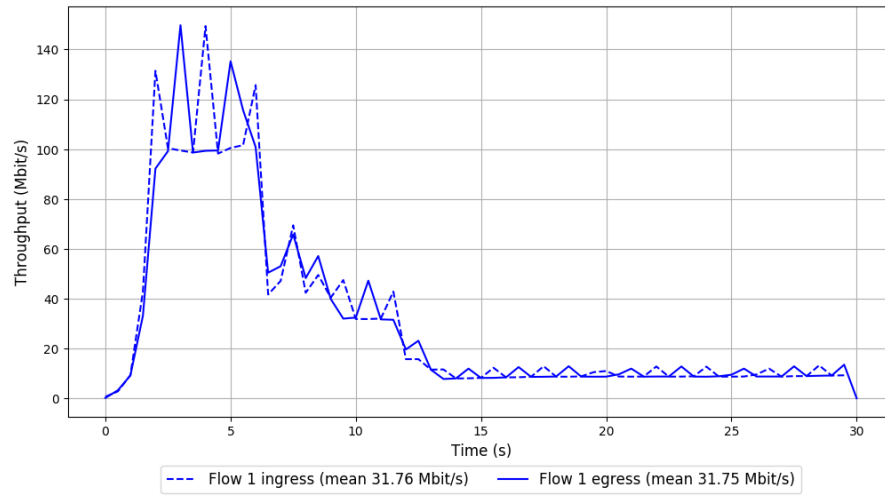
-- Flow 1:

Average throughput: 31.75 Mbit/s

95th percentile per-packet one-way delay: 117.825 ms

Loss rate: 0.04%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-02-13 00:03:04

End at: 2018-02-13 00:03:34

Below is generated by plot.py at 2018-02-13 02:13:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.50 Mbit/s

95th percentile per-packet one-way delay: 112.745 ms

Loss rate: 1.02%

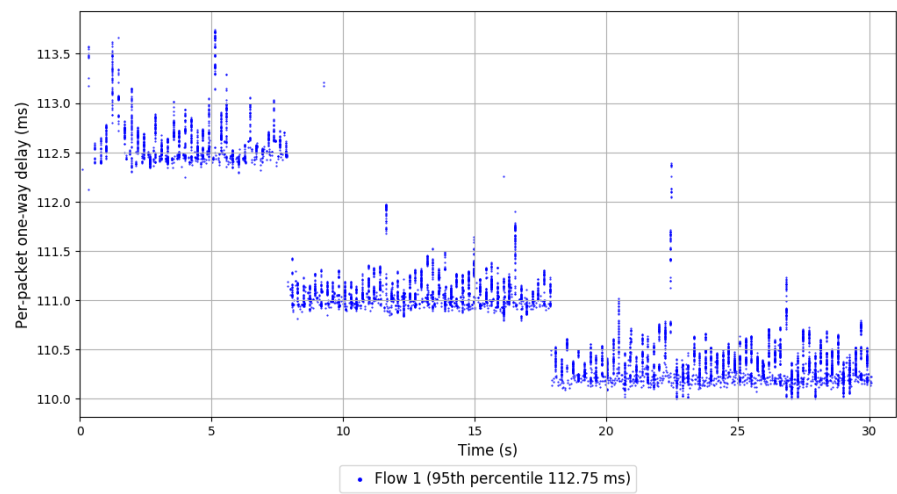
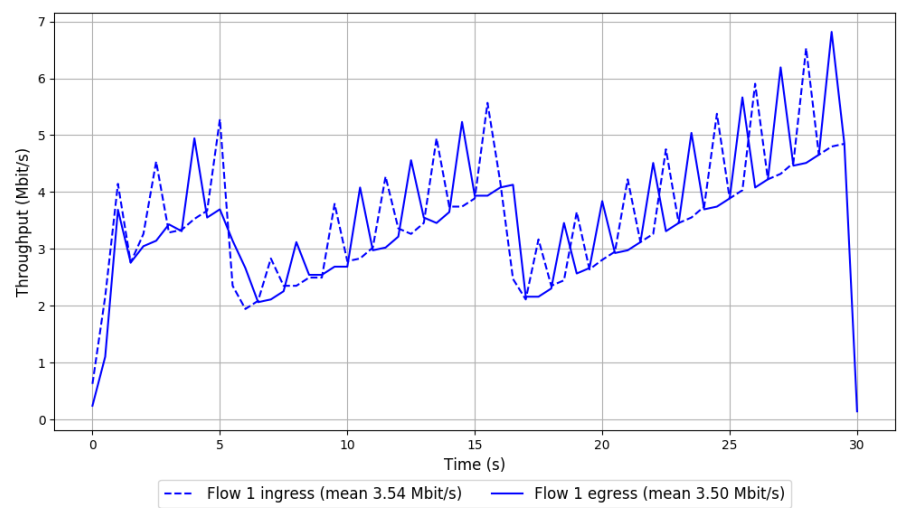
-- Flow 1:

Average throughput: 3.50 Mbit/s

95th percentile per-packet one-way delay: 112.745 ms

Loss rate: 1.02%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-02-13 00:18:25

End at: 2018-02-13 00:18:55

Below is generated by plot.py at 2018-02-13 02:13:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 24.90 Mbit/s

95th percentile per-packet one-way delay: 115.084 ms

Loss rate: 0.02%

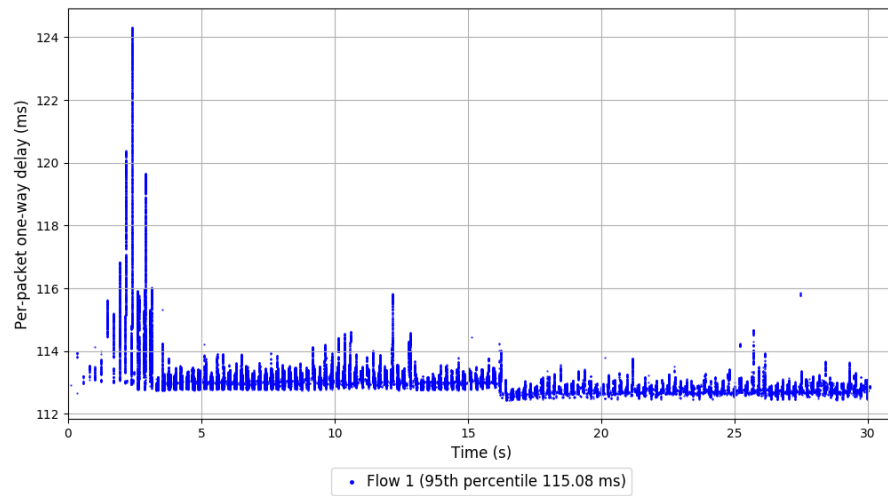
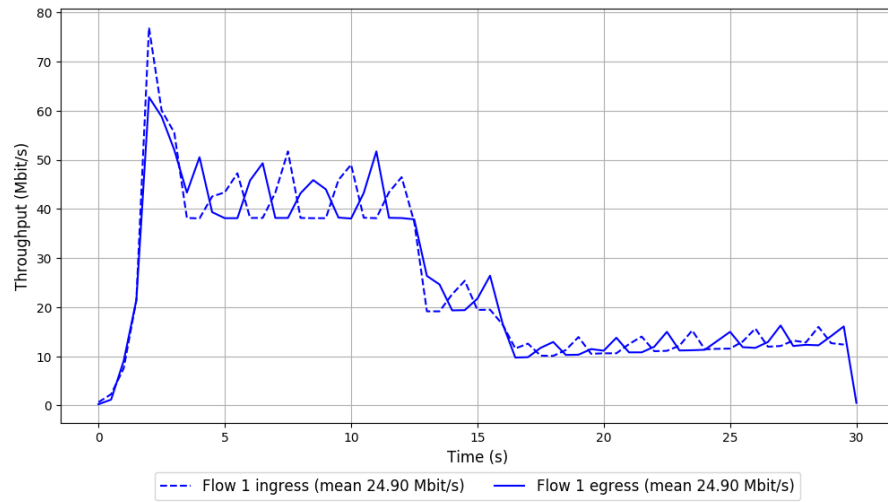
-- Flow 1:

Average throughput: 24.90 Mbit/s

95th percentile per-packet one-way delay: 115.084 ms

Loss rate: 0.02%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-02-12 22:08:28

End at: 2018-02-12 22:08:58

Below is generated by plot.py at 2018-02-13 02:13:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 169.52 Mbit/s

95th percentile per-packet one-way delay: 139.858 ms

Loss rate: 0.02%

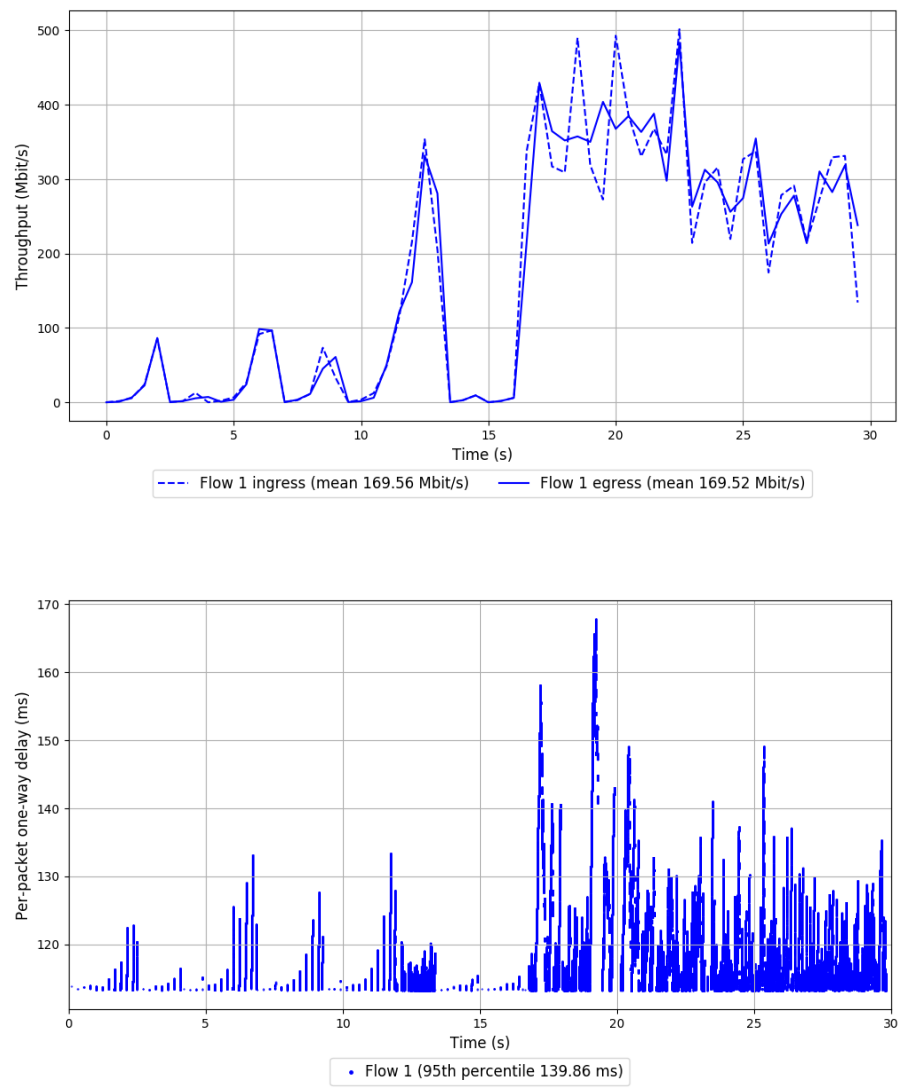
-- Flow 1:

Average throughput: 169.52 Mbit/s

95th percentile per-packet one-way delay: 139.858 ms

Loss rate: 0.02%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-02-12 22:24:00

End at: 2018-02-12 22:24:30

Below is generated by plot.py at 2018-02-13 02:13:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 133.55 Mbit/s

95th percentile per-packet one-way delay: 133.626 ms

Loss rate: 0.00%

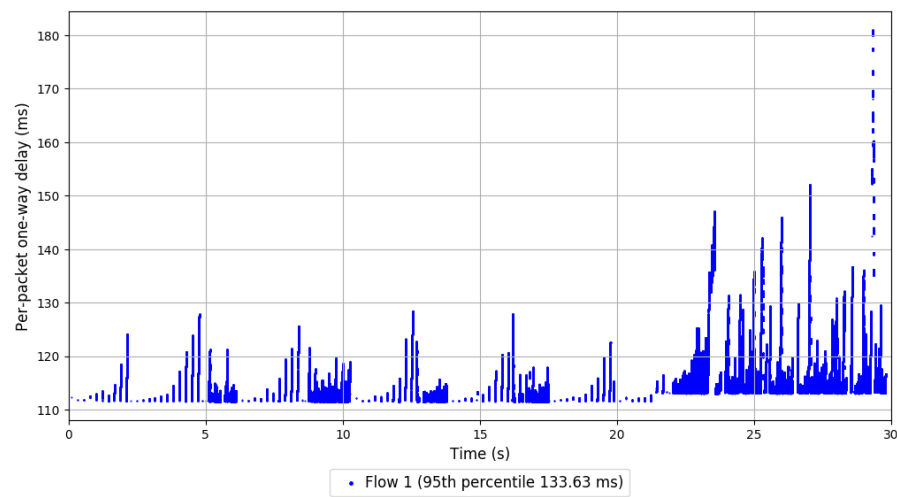
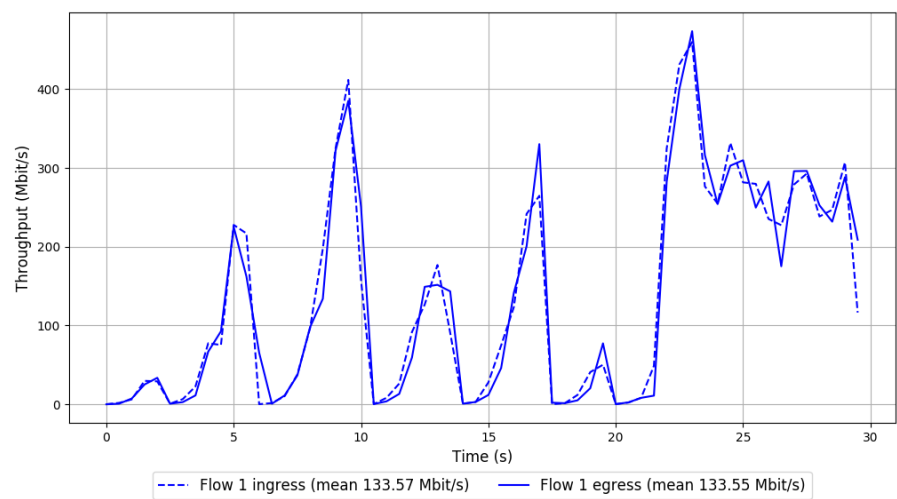
-- Flow 1:

Average throughput: 133.55 Mbit/s

95th percentile per-packet one-way delay: 133.626 ms

Loss rate: 0.00%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-02-12 22:39:31

End at: 2018-02-12 22:40:01

Below is generated by plot.py at 2018-02-13 02:13:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 223.10 Mbit/s

95th percentile per-packet one-way delay: 188.634 ms

Loss rate: 0.00%

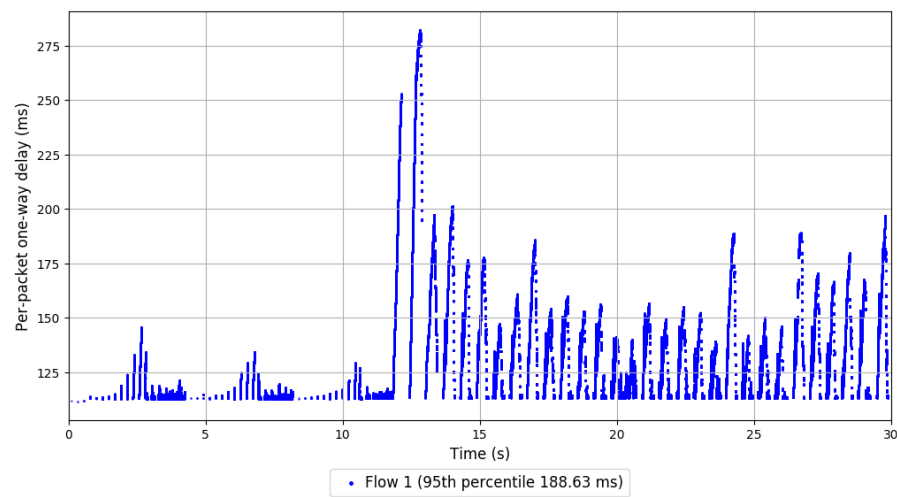
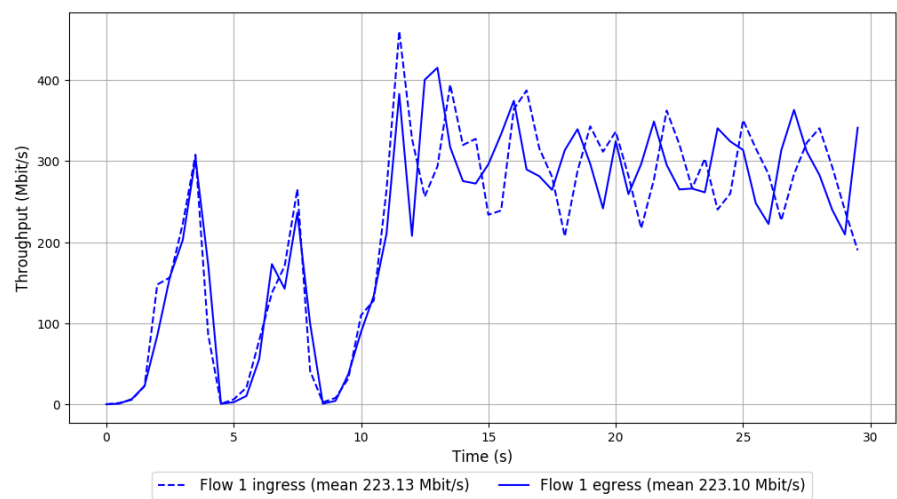
-- Flow 1:

Average throughput: 223.10 Mbit/s

95th percentile per-packet one-way delay: 188.634 ms

Loss rate: 0.00%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-02-12 22:54:56

End at: 2018-02-12 22:55:26

Below is generated by plot.py at 2018-02-13 02:13:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 174.44 Mbit/s

95th percentile per-packet one-way delay: 169.620 ms

Loss rate: 0.00%

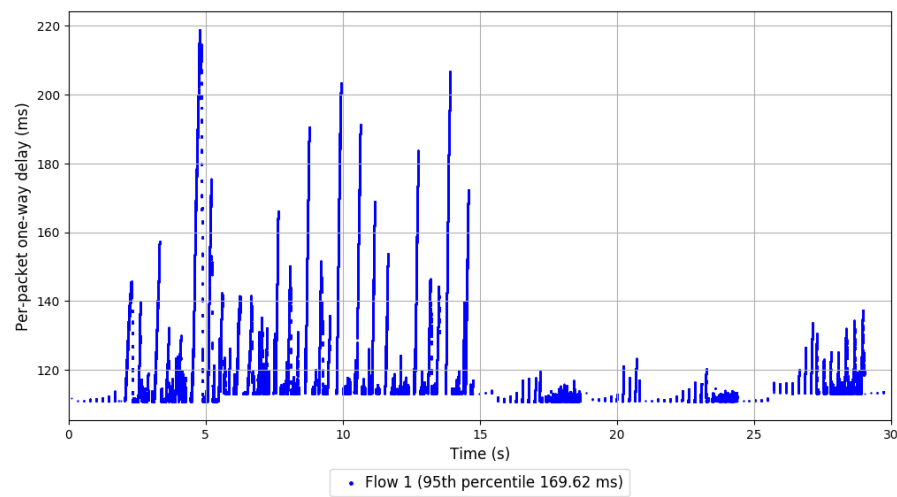
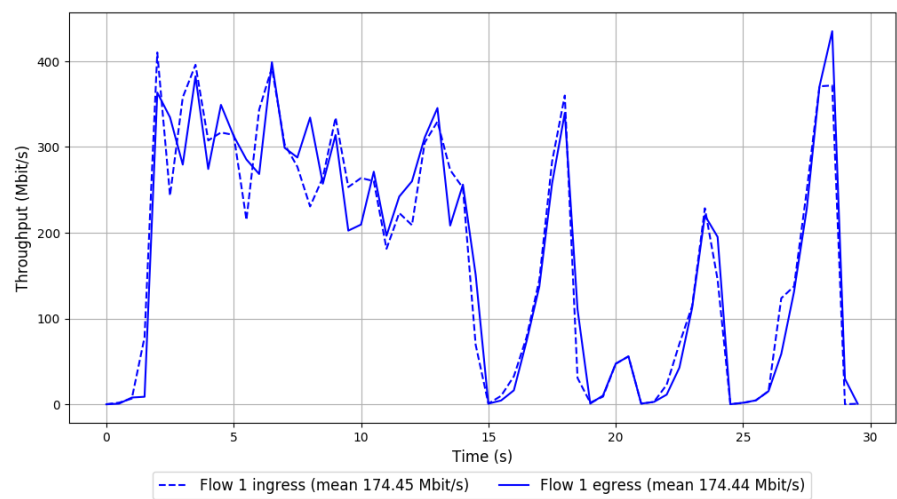
-- Flow 1:

Average throughput: 174.44 Mbit/s

95th percentile per-packet one-way delay: 169.620 ms

Loss rate: 0.00%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-02-12 23:10:29

End at: 2018-02-12 23:10:59

Below is generated by plot.py at 2018-02-13 02:13:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 228.82 Mbit/s

95th percentile per-packet one-way delay: 163.798 ms

Loss rate: 0.14%

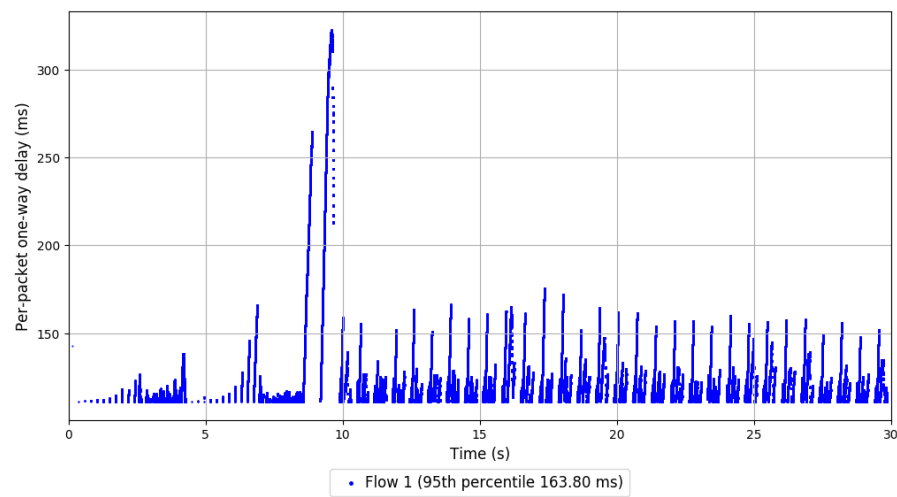
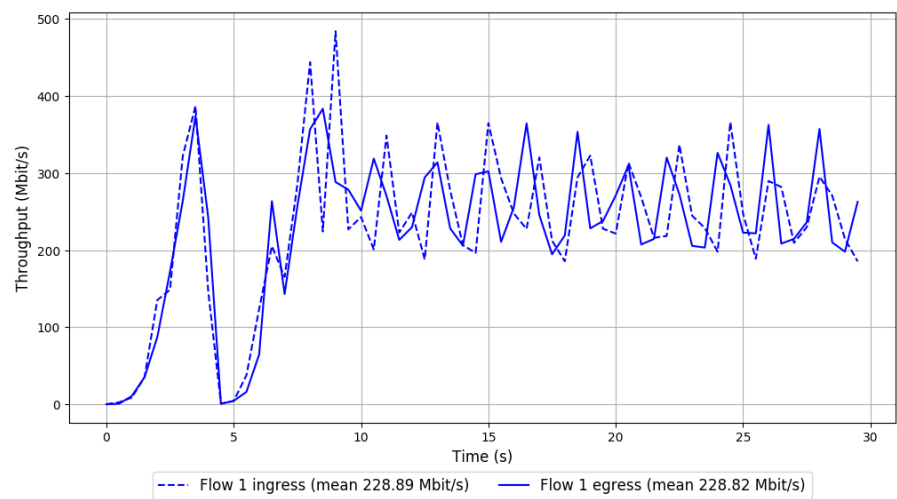
-- Flow 1:

Average throughput: 228.82 Mbit/s

95th percentile per-packet one-way delay: 163.798 ms

Loss rate: 0.14%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-02-12 23:26:03

End at: 2018-02-12 23:26:33

Below is generated by plot.py at 2018-02-13 02:13:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 136.39 Mbit/s

95th percentile per-packet one-way delay: 239.118 ms

Loss rate: 2.56%

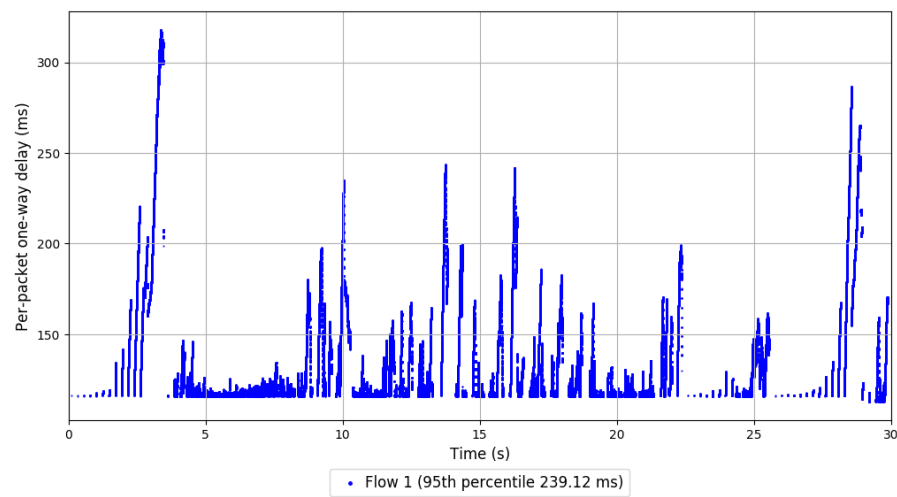
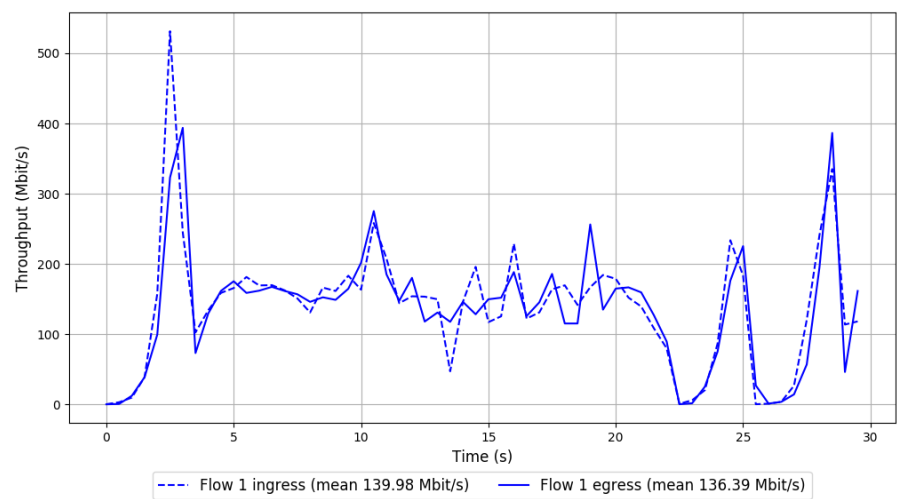
-- Flow 1:

Average throughput: 136.39 Mbit/s

95th percentile per-packet one-way delay: 239.118 ms

Loss rate: 2.56%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-02-12 23:41:22

End at: 2018-02-12 23:41:52

Below is generated by plot.py at 2018-02-13 02:13:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 116.00 Mbit/s

95th percentile per-packet one-way delay: 150.040 ms

Loss rate: 0.02%

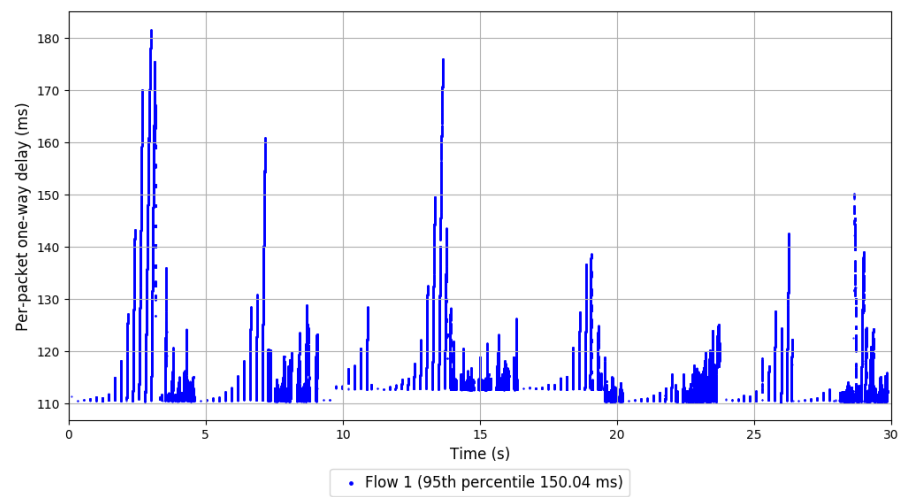
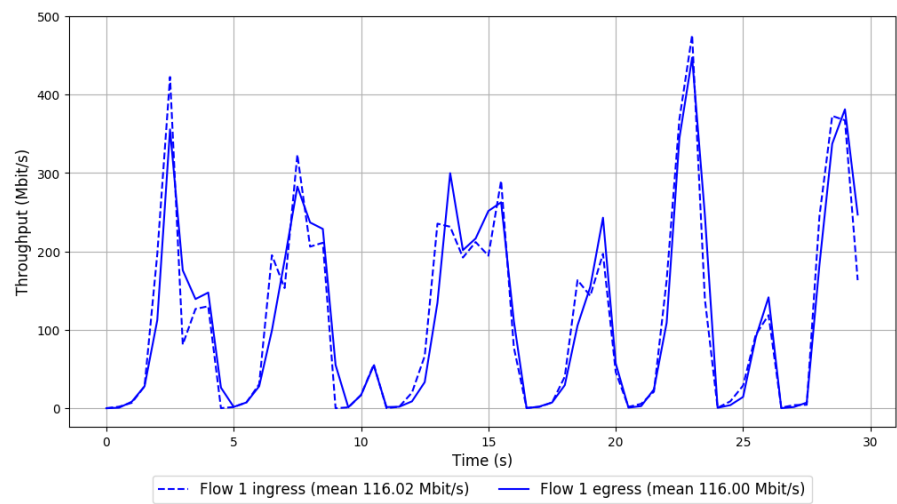
-- Flow 1:

Average throughput: 116.00 Mbit/s

95th percentile per-packet one-way delay: 150.040 ms

Loss rate: 0.02%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-02-12 23:57:02

End at: 2018-02-12 23:57:32

Below is generated by plot.py at 2018-02-13 02:14:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 123.43 Mbit/s

95th percentile per-packet one-way delay: 129.144 ms

Loss rate: 0.04%

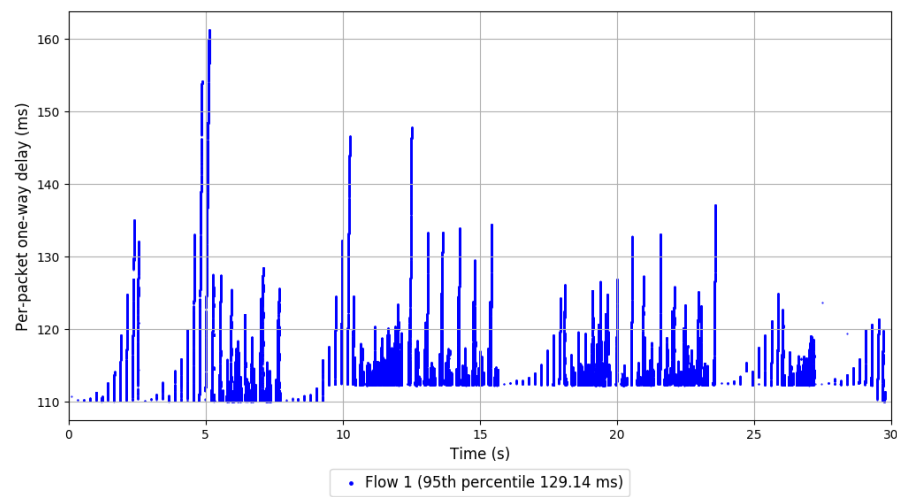
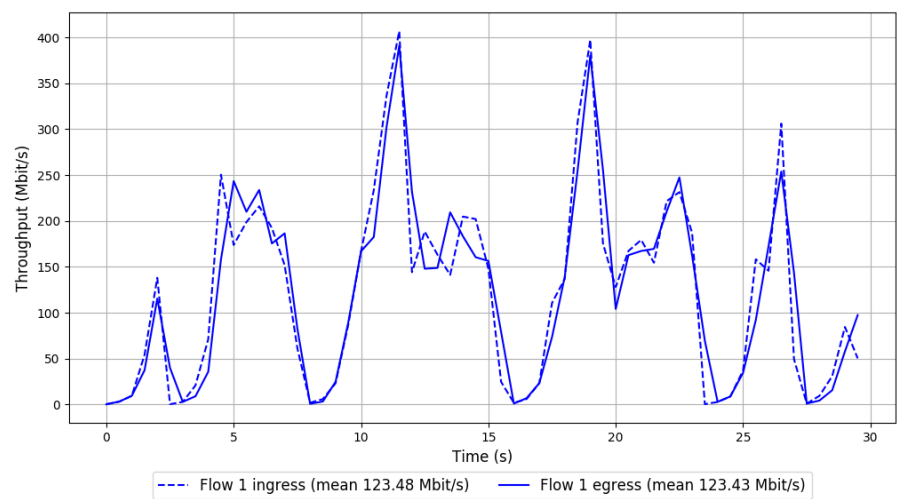
-- Flow 1:

Average throughput: 123.43 Mbit/s

95th percentile per-packet one-way delay: 129.144 ms

Loss rate: 0.04%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-02-13 00:12:19

End at: 2018-02-13 00:12:49

Below is generated by plot.py at 2018-02-13 02:16:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 233.37 Mbit/s

95th percentile per-packet one-way delay: 207.361 ms

Loss rate: 0.01%

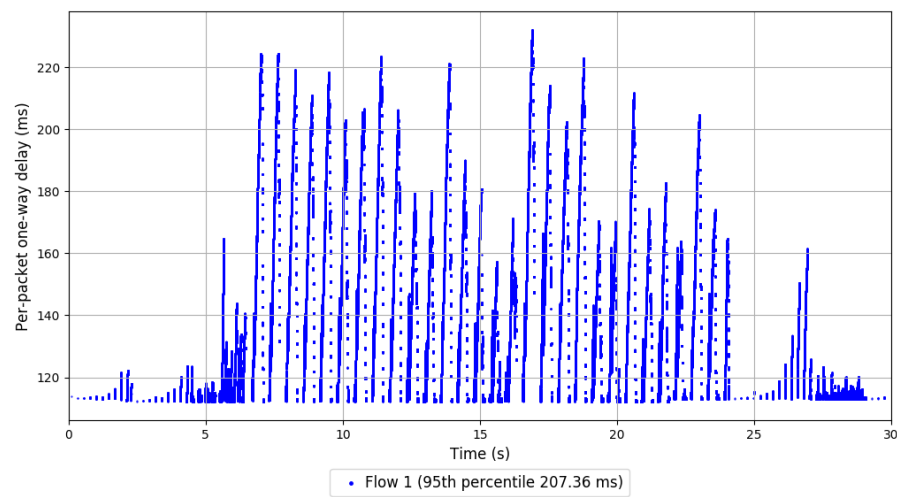
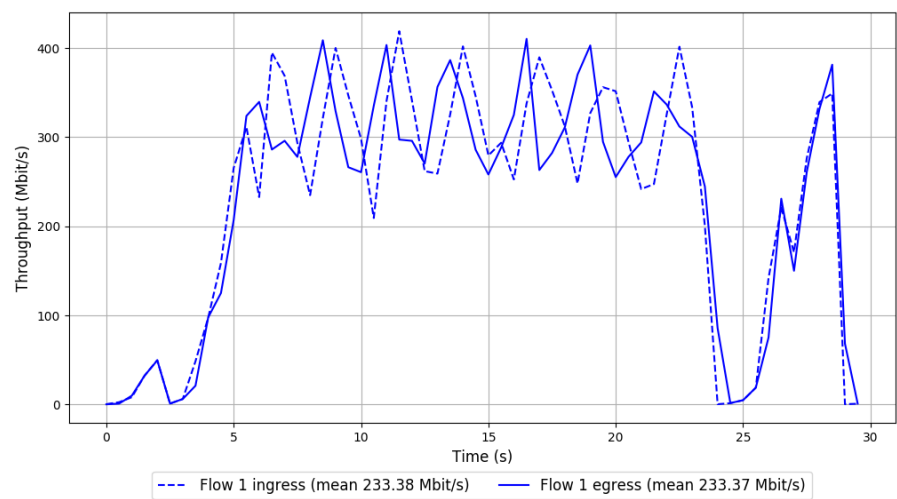
-- Flow 1:

Average throughput: 233.37 Mbit/s

95th percentile per-packet one-way delay: 207.361 ms

Loss rate: 0.01%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-02-13 00:27:58

End at: 2018-02-13 00:28:29

Below is generated by plot.py at 2018-02-13 02:16:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 137.74 Mbit/s

95th percentile per-packet one-way delay: 144.085 ms

Loss rate: 0.01%

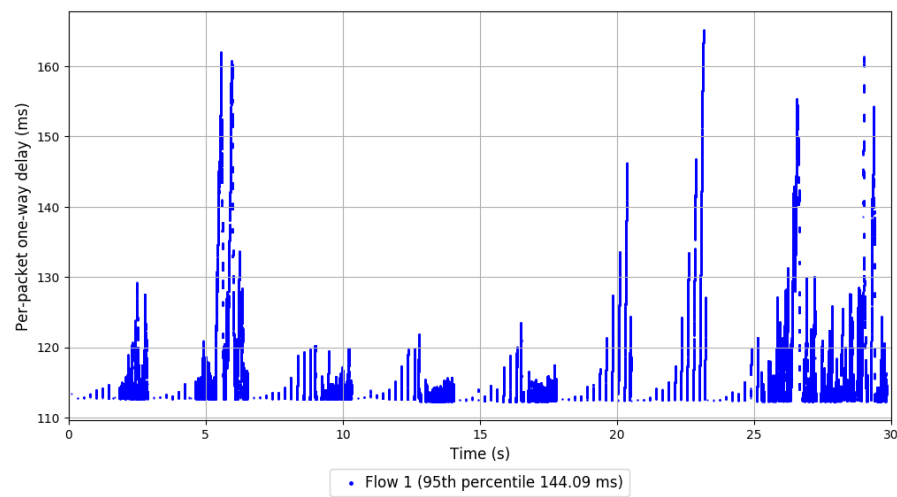
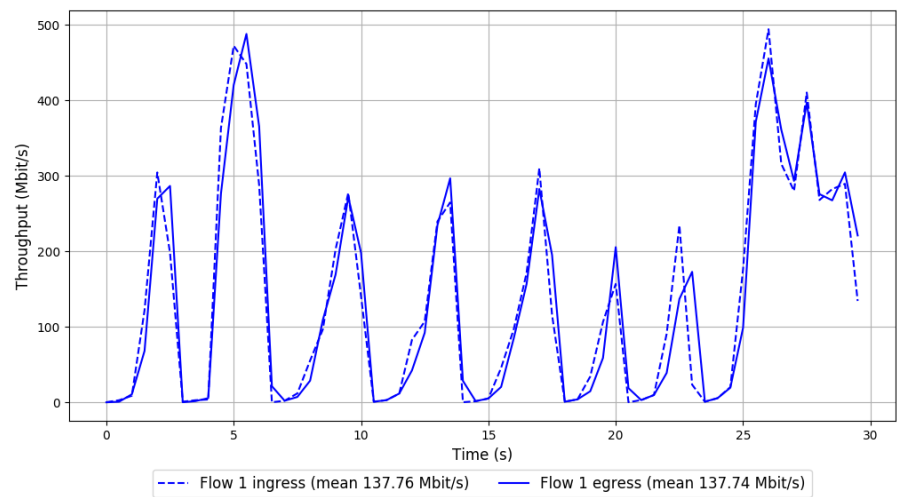
-- Flow 1:

Average throughput: 137.74 Mbit/s

95th percentile per-packet one-way delay: 144.085 ms

Loss rate: 0.01%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2018-02-12 22:05:19

End at: 2018-02-12 22:05:49

Below is generated by plot.py at 2018-02-13 02:16:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 22.12 Mbit/s

95th percentile per-packet one-way delay: 113.504 ms

Loss rate: 0.00%

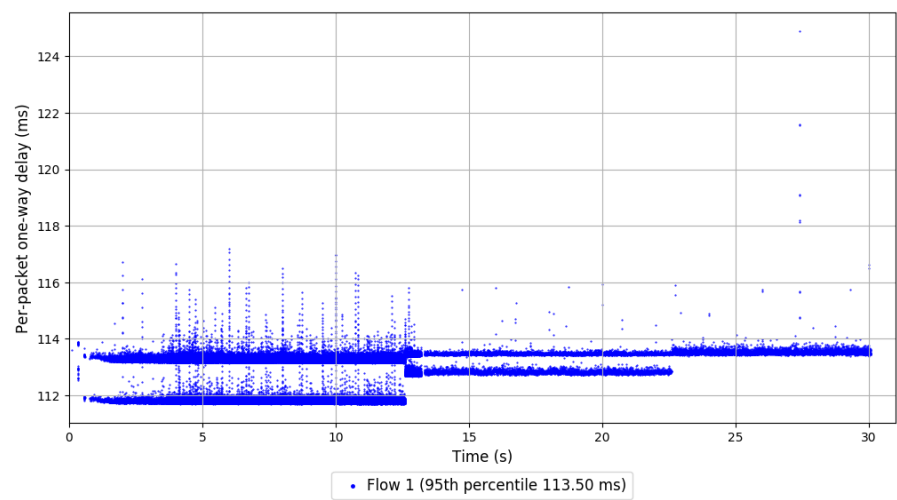
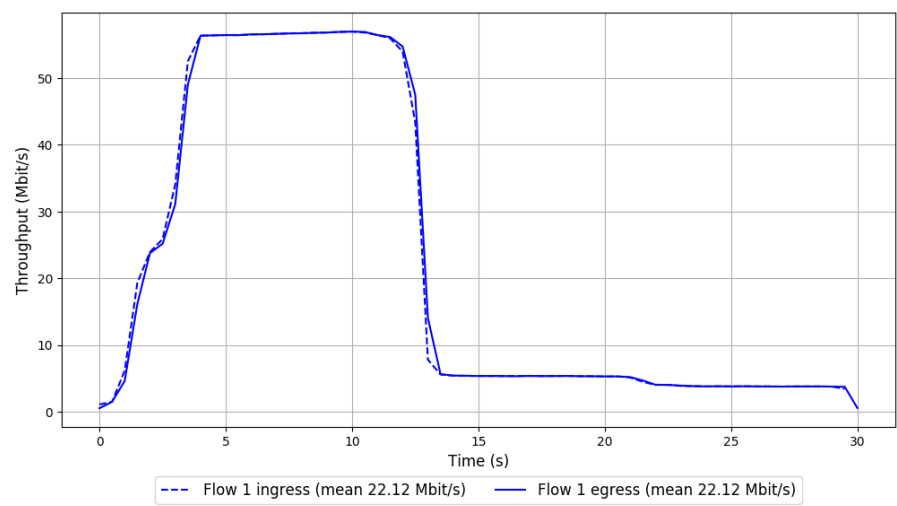
-- Flow 1:

Average throughput: 22.12 Mbit/s

95th percentile per-packet one-way delay: 113.504 ms

Loss rate: 0.00%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-02-12 22:20:47

End at: 2018-02-12 22:21:17

Below is generated by plot.py at 2018-02-13 02:16:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 46.87 Mbit/s

95th percentile per-packet one-way delay: 113.081 ms

Loss rate: 0.00%

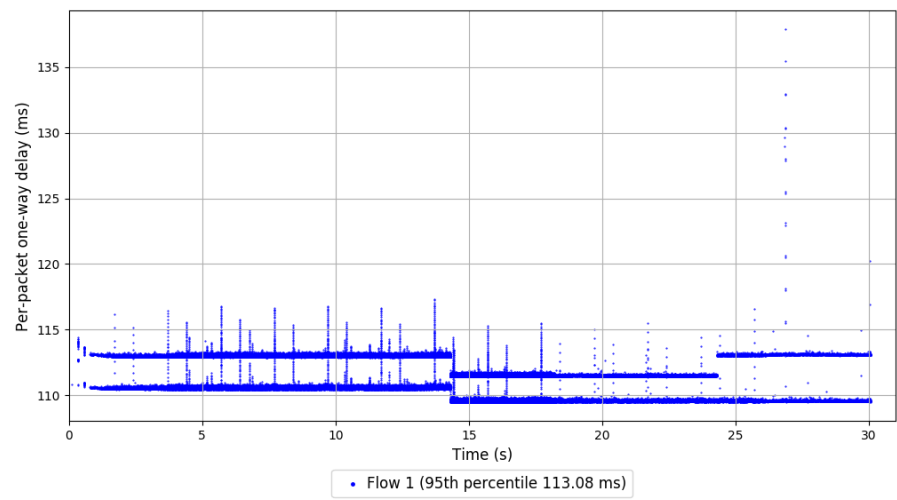
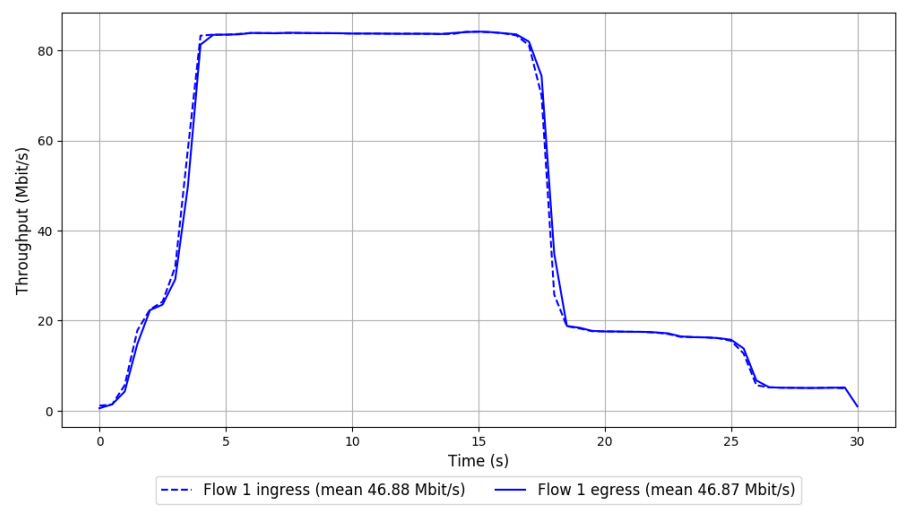
-- Flow 1:

Average throughput: 46.87 Mbit/s

95th percentile per-packet one-way delay: 113.081 ms

Loss rate: 0.00%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-02-12 22:36:18

End at: 2018-02-12 22:36:48

Below is generated by plot.py at 2018-02-13 02:16:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 32.71 Mbit/s

95th percentile per-packet one-way delay: 112.942 ms

Loss rate: 0.00%

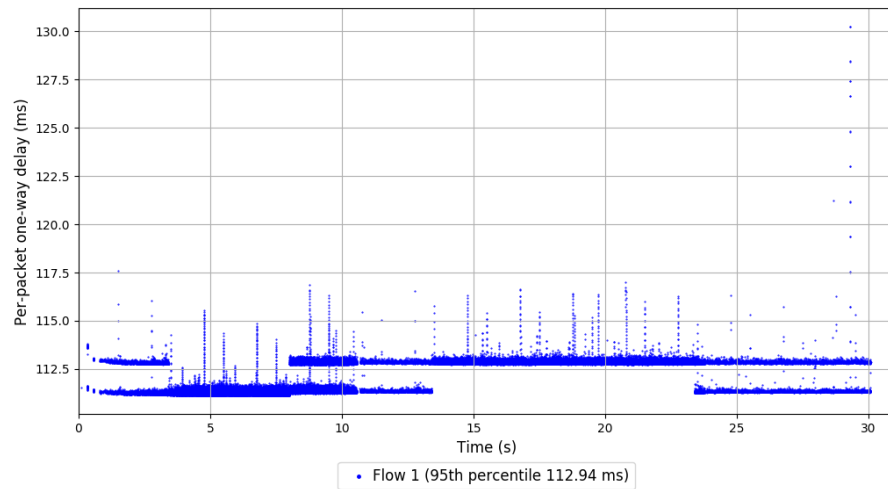
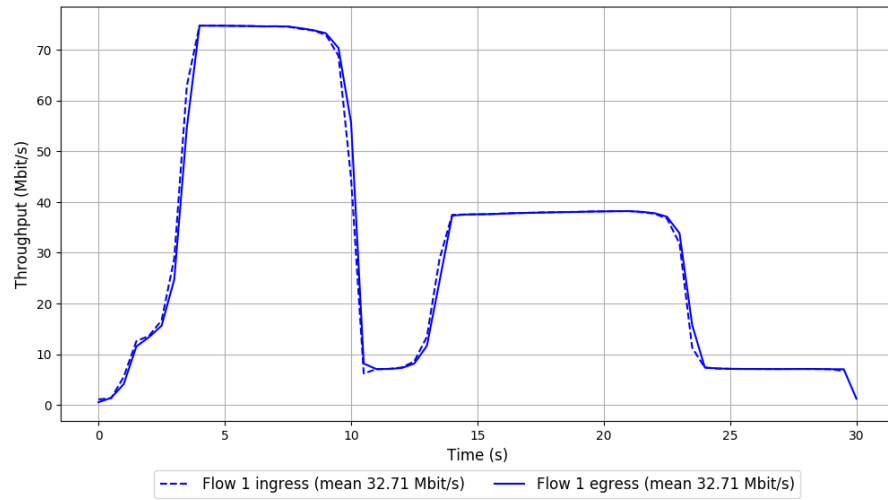
-- Flow 1:

Average throughput: 32.71 Mbit/s

95th percentile per-packet one-way delay: 112.942 ms

Loss rate: 0.00%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-02-12 22:51:41

End at: 2018-02-12 22:52:11

Below is generated by plot.py at 2018-02-13 02:16:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 45.72 Mbit/s

95th percentile per-packet one-way delay: 113.174 ms

Loss rate: 0.00%

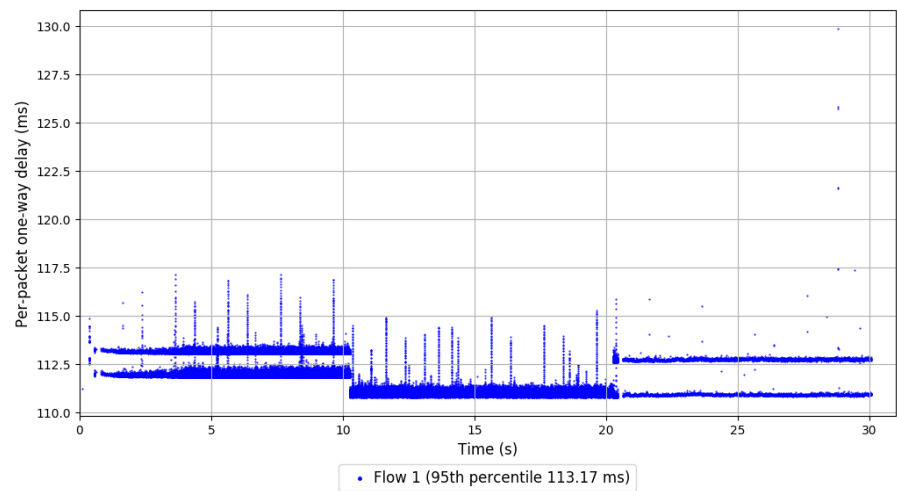
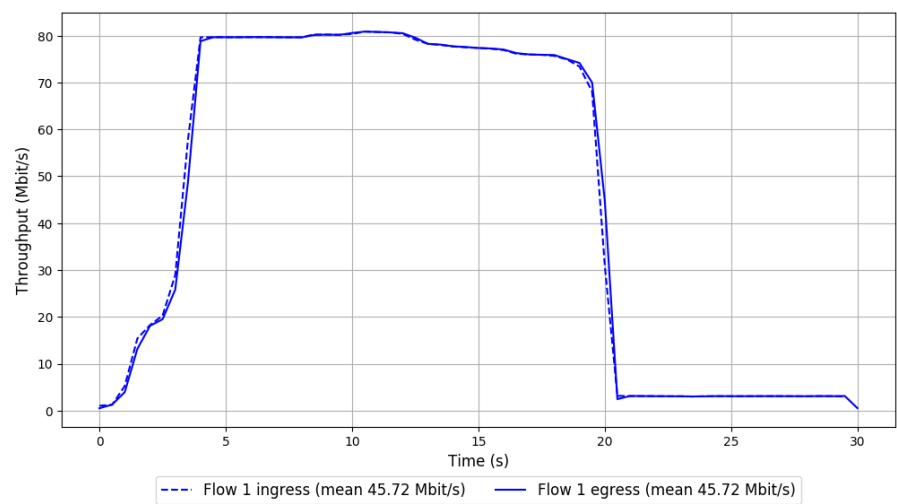
-- Flow 1:

Average throughput: 45.72 Mbit/s

95th percentile per-packet one-way delay: 113.174 ms

Loss rate: 0.00%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-02-12 23:07:17

End at: 2018-02-12 23:07:47

Below is generated by plot.py at 2018-02-13 02:16:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 30.85 Mbit/s

95th percentile per-packet one-way delay: 115.426 ms

Loss rate: 0.00%

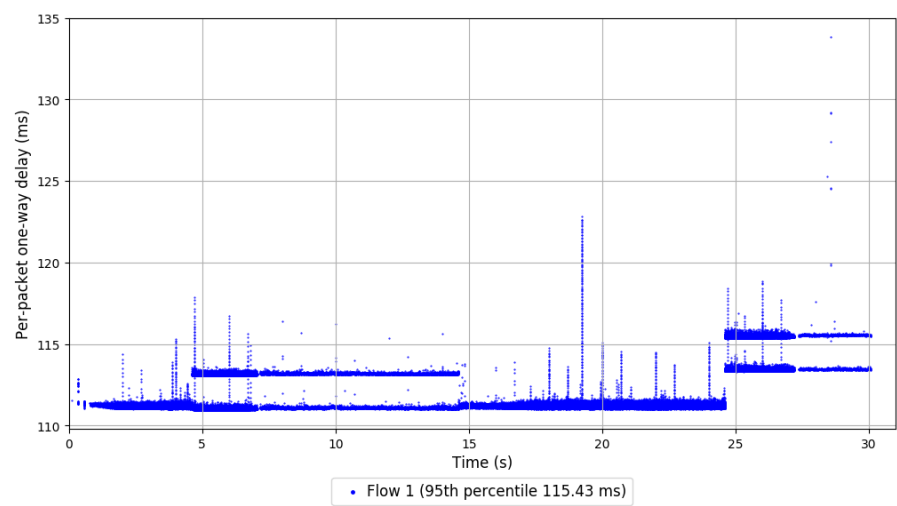
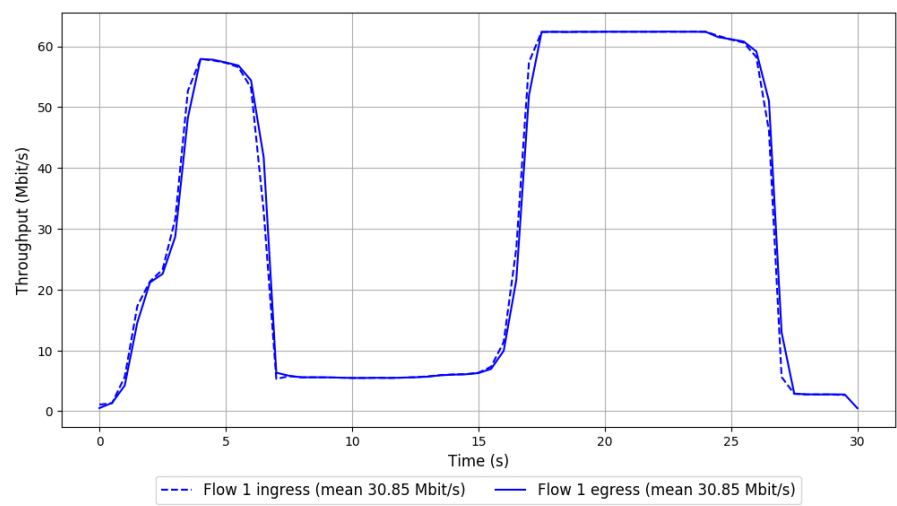
-- Flow 1:

Average throughput: 30.85 Mbit/s

95th percentile per-packet one-way delay: 115.426 ms

Loss rate: 0.00%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-02-12 23:22:48

End at: 2018-02-12 23:23:18

Below is generated by plot.py at 2018-02-13 02:16:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 67.54 Mbit/s

95th percentile per-packet one-way delay: 115.890 ms

Loss rate: 0.01%

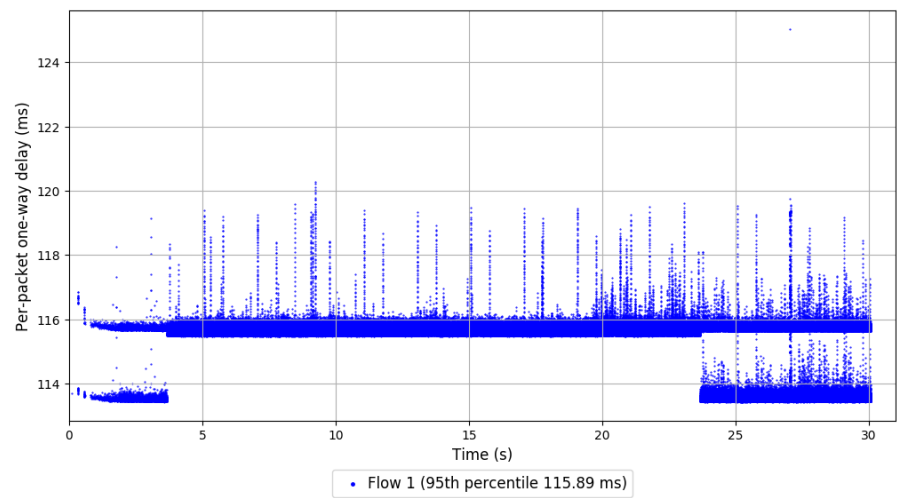
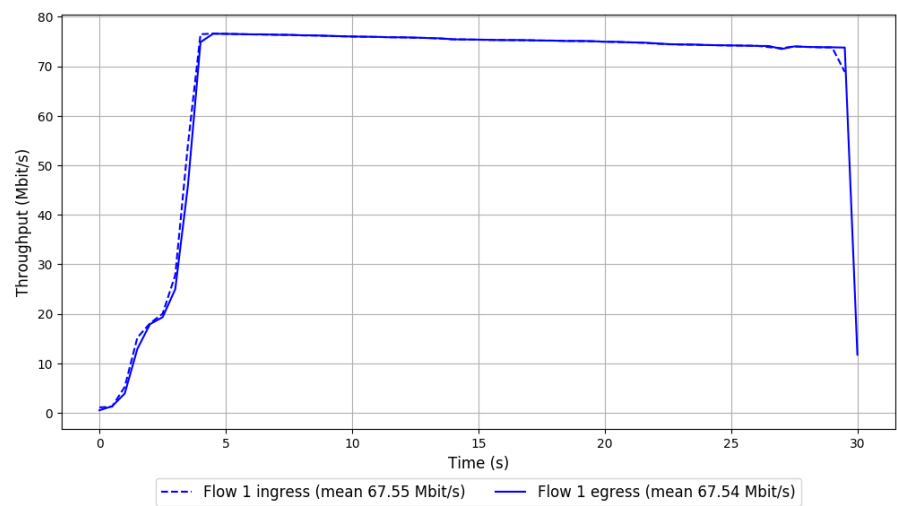
-- Flow 1:

Average throughput: 67.54 Mbit/s

95th percentile per-packet one-way delay: 115.890 ms

Loss rate: 0.01%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-02-12 23:38:09

End at: 2018-02-12 23:38:40

Below is generated by plot.py at 2018-02-13 02:16:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 48.54 Mbit/s

95th percentile per-packet one-way delay: 112.999 ms

Loss rate: 0.00%

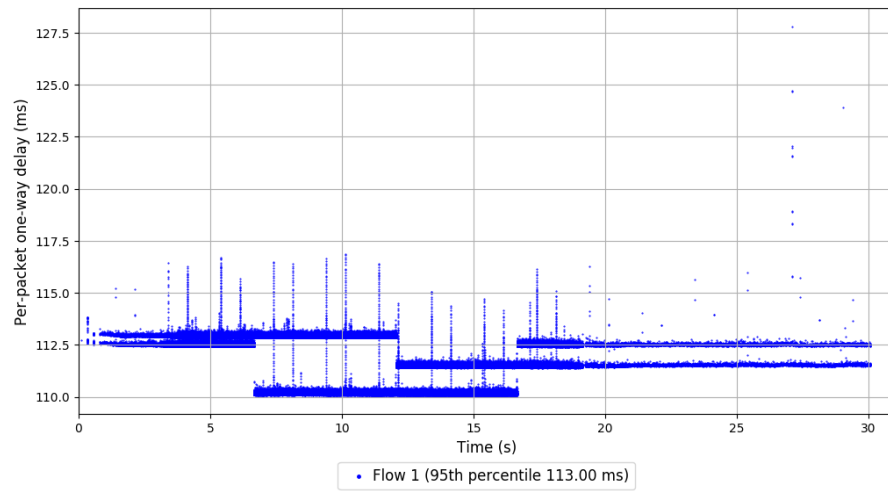
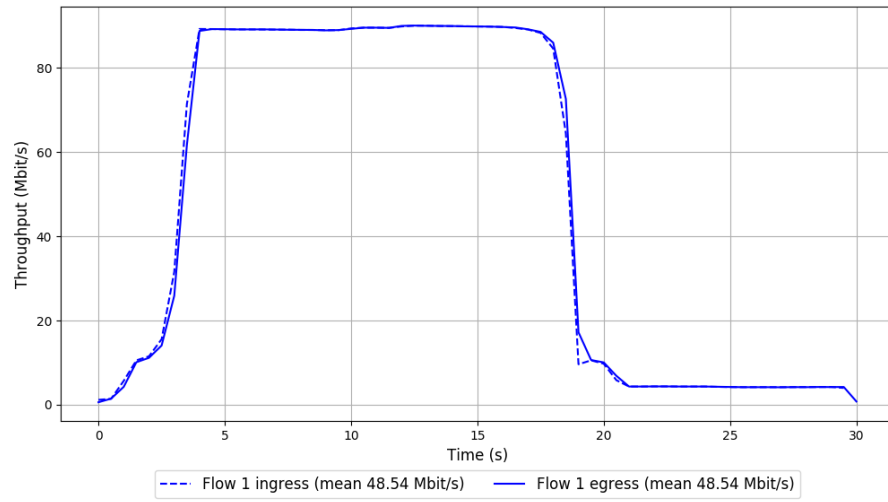
-- Flow 1:

Average throughput: 48.54 Mbit/s

95th percentile per-packet one-way delay: 112.999 ms

Loss rate: 0.00%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-02-12 23:53:52

End at: 2018-02-12 23:54:22

Below is generated by plot.py at 2018-02-13 02:16:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 40.84 Mbit/s

95th percentile per-packet one-way delay: 113.019 ms

Loss rate: 0.00%

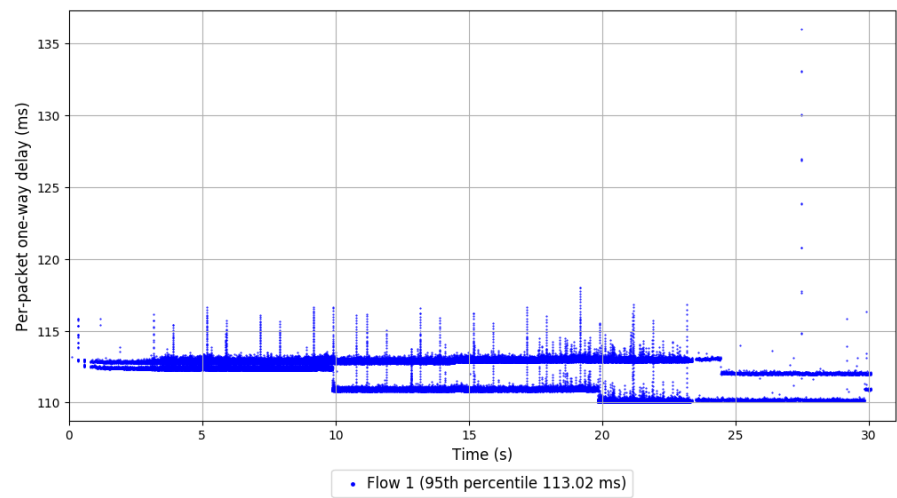
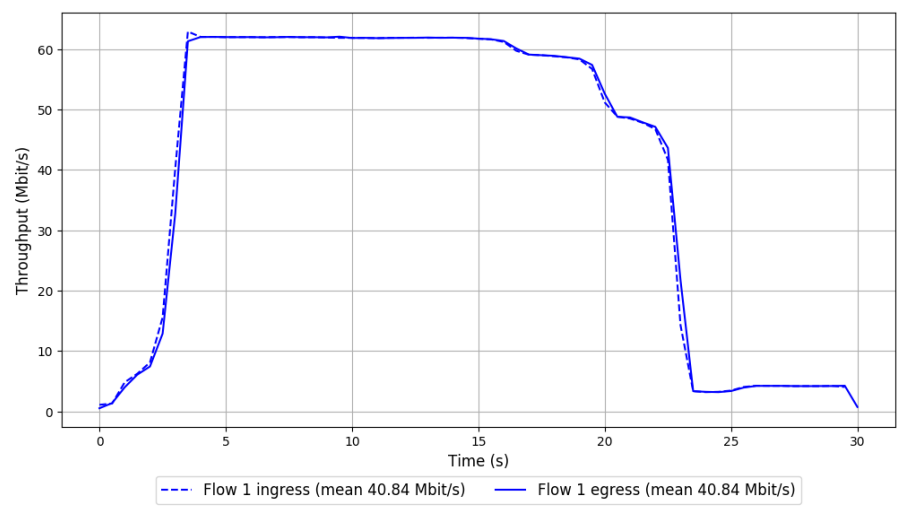
-- Flow 1:

Average throughput: 40.84 Mbit/s

95th percentile per-packet one-way delay: 113.019 ms

Loss rate: 0.00%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-02-13 00:09:10

End at: 2018-02-13 00:09:40

Below is generated by plot.py at 2018-02-13 02:16:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 21.23 Mbit/s

95th percentile per-packet one-way delay: 112.605 ms

Loss rate: 0.00%

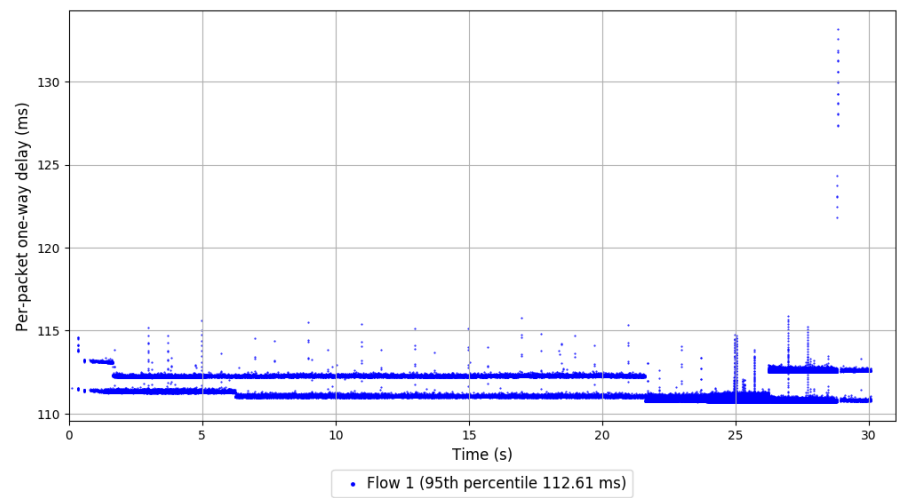
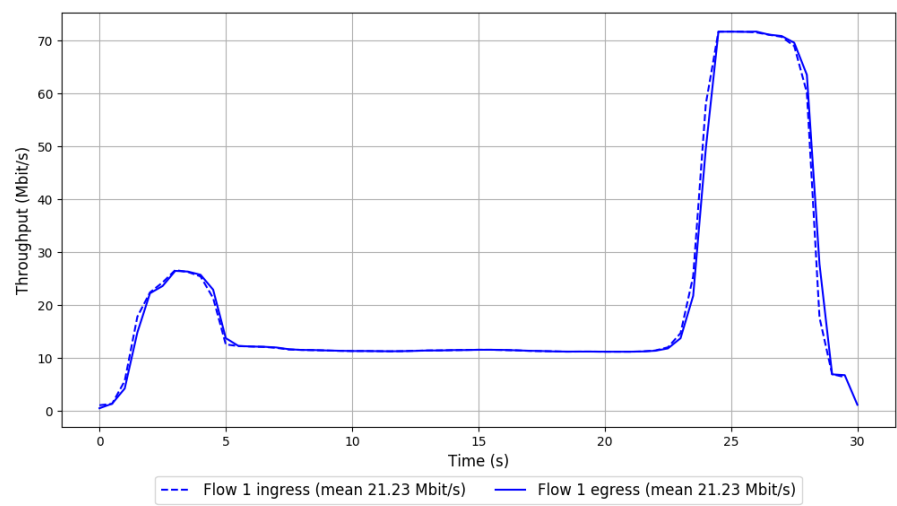
-- Flow 1:

Average throughput: 21.23 Mbit/s

95th percentile per-packet one-way delay: 112.605 ms

Loss rate: 0.00%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-02-13 00:24:50

End at: 2018-02-13 00:25:20

Below is generated by plot.py at 2018-02-13 02:16:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.80 Mbit/s

95th percentile per-packet one-way delay: 112.822 ms

Loss rate: 0.01%

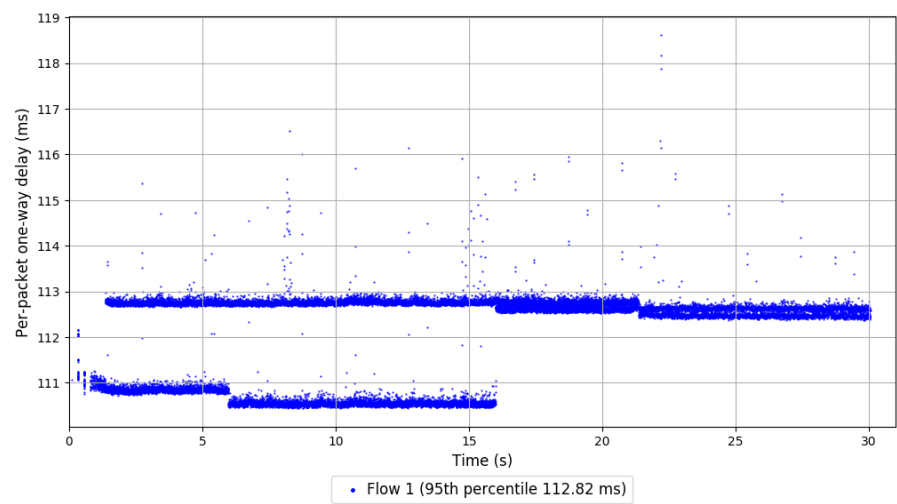
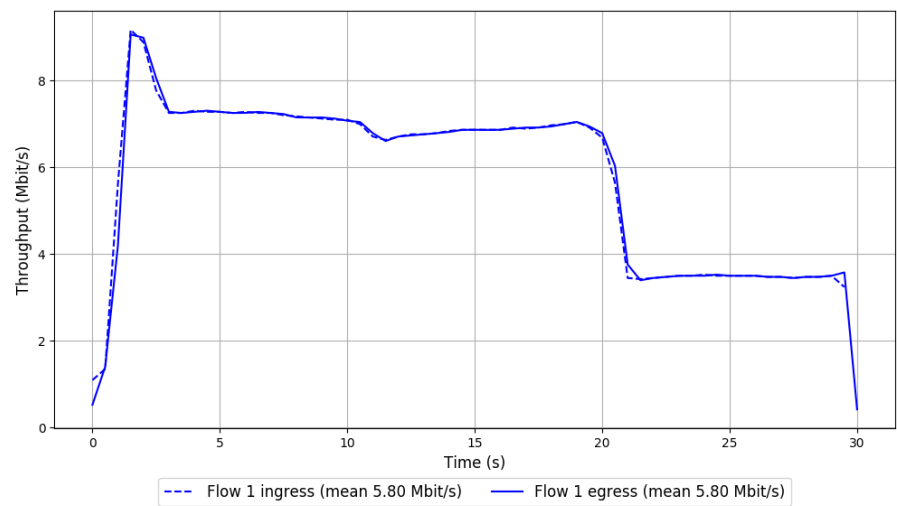
-- Flow 1:

Average throughput: 5.80 Mbit/s

95th percentile per-packet one-way delay: 112.822 ms

Loss rate: 0.01%

Run 10: Report of Copa — Data Link

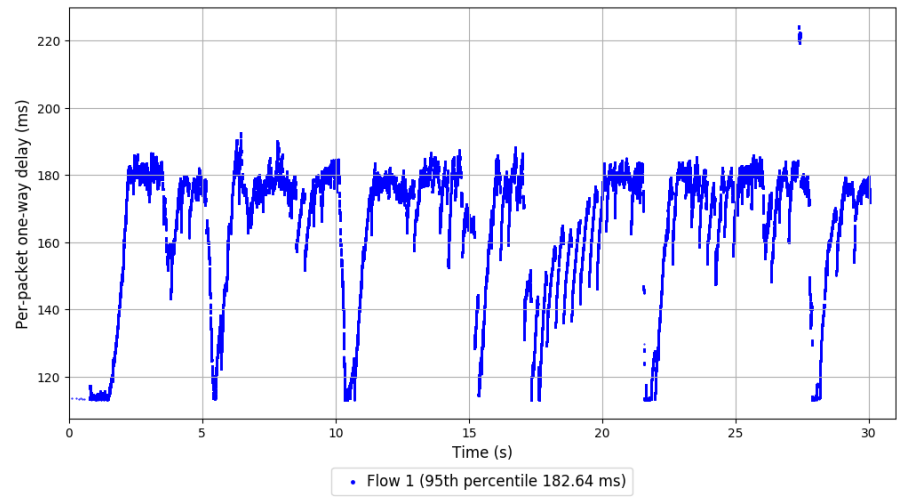
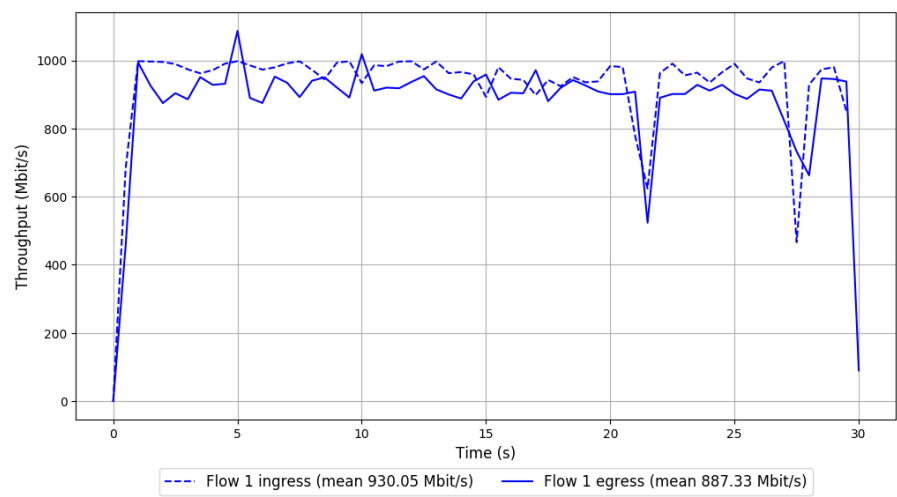


```
Run 1: Statistics of FillP

Start at: 2018-02-12 22:07:12
End at: 2018-02-12 22:07:42

# Below is generated by plot.py at 2018-02-13 02:31:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 887.33 Mbit/s
95th percentile per-packet one-way delay: 182.637 ms
Loss rate: 4.59%
-- Flow 1:
Average throughput: 887.33 Mbit/s
95th percentile per-packet one-way delay: 182.637 ms
Loss rate: 4.59%
```

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-02-12 22:22:42

End at: 2018-02-12 22:23:12

Below is generated by plot.py at 2018-02-13 02:32:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 952.40 Mbit/s

95th percentile per-packet one-way delay: 139.118 ms

Loss rate: 0.00%

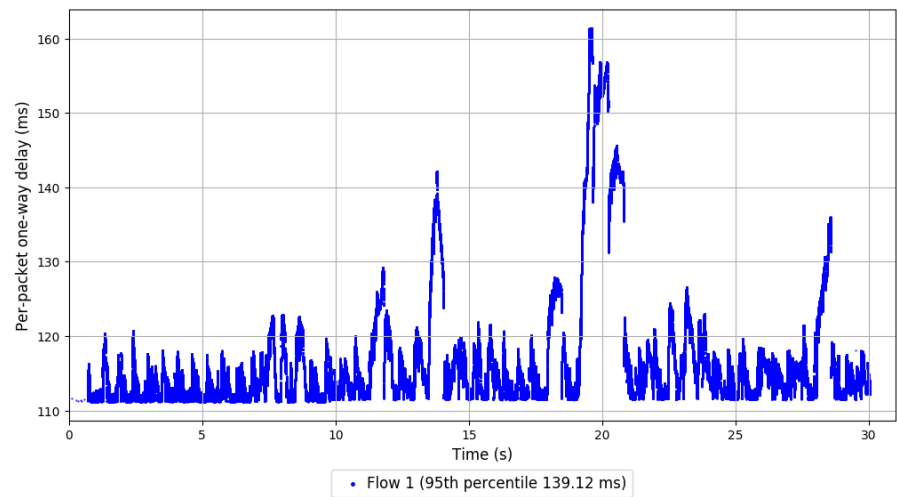
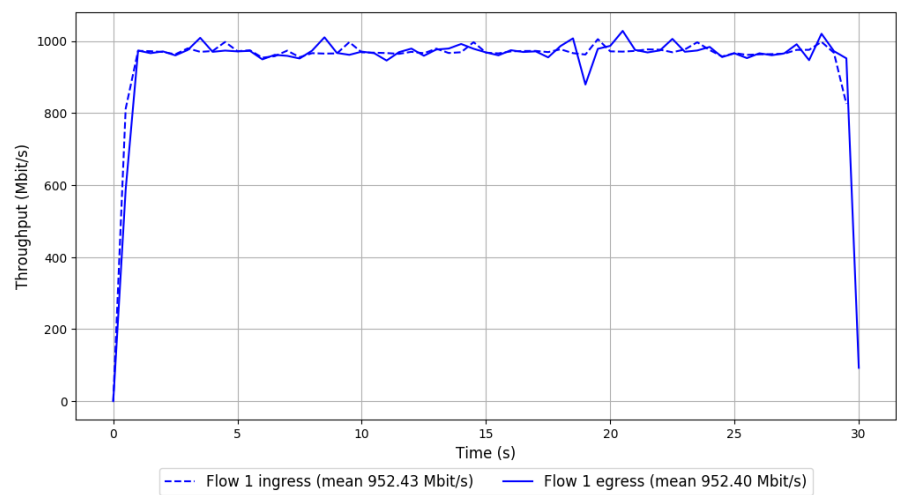
-- Flow 1:

Average throughput: 952.40 Mbit/s

95th percentile per-packet one-way delay: 139.118 ms

Loss rate: 0.00%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-02-12 22:38:13

End at: 2018-02-12 22:38:43

Below is generated by plot.py at 2018-02-13 02:32:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 949.16 Mbit/s

95th percentile per-packet one-way delay: 171.724 ms

Loss rate: 0.29%

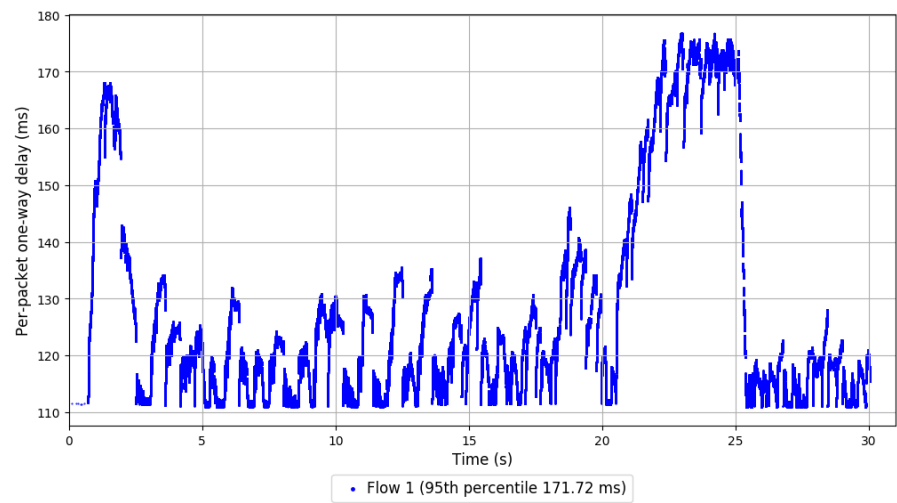
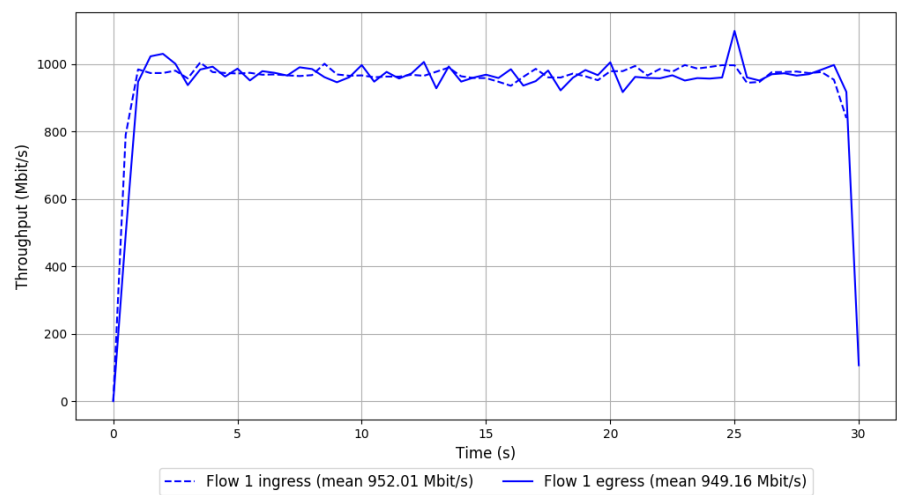
-- Flow 1:

Average throughput: 949.16 Mbit/s

95th percentile per-packet one-way delay: 171.724 ms

Loss rate: 0.29%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-02-12 22:53:39

End at: 2018-02-12 22:54:09

Below is generated by plot.py at 2018-02-13 02:32:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 924.96 Mbit/s

95th percentile per-packet one-way delay: 186.083 ms

Loss rate: 0.54%

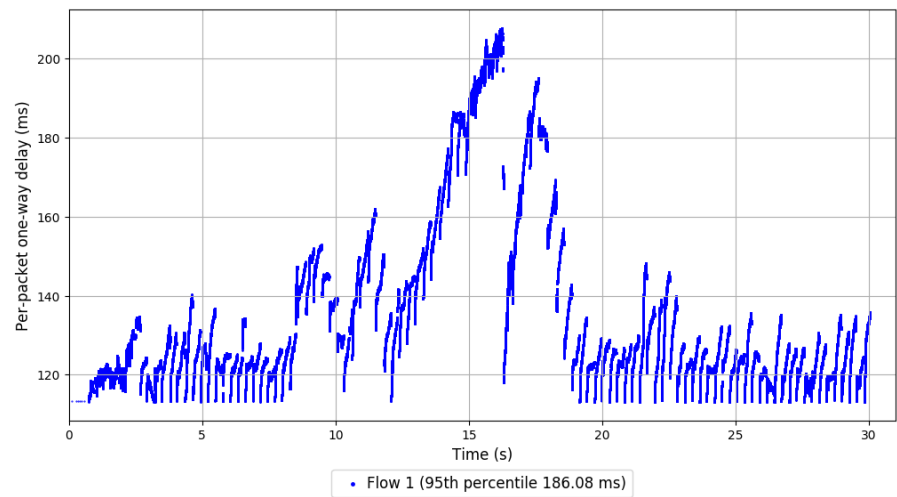
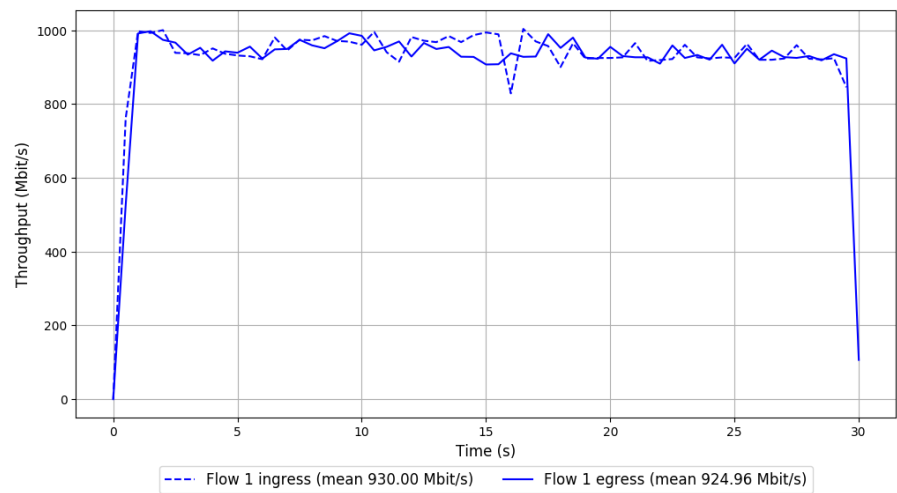
-- Flow 1:

Average throughput: 924.96 Mbit/s

95th percentile per-packet one-way delay: 186.083 ms

Loss rate: 0.54%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-02-12 23:09:12

End at: 2018-02-12 23:09:42

Below is generated by plot.py at 2018-02-13 02:32:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 929.03 Mbit/s

95th percentile per-packet one-way delay: 159.848 ms

Loss rate: 0.20%

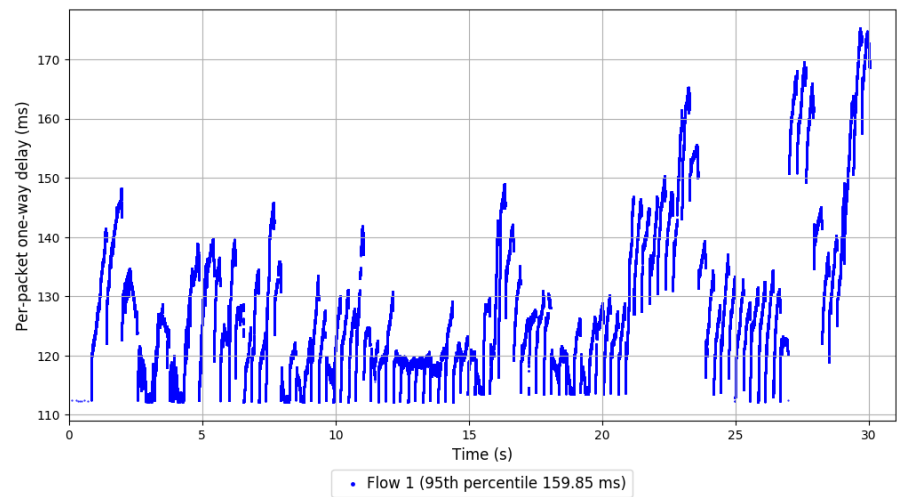
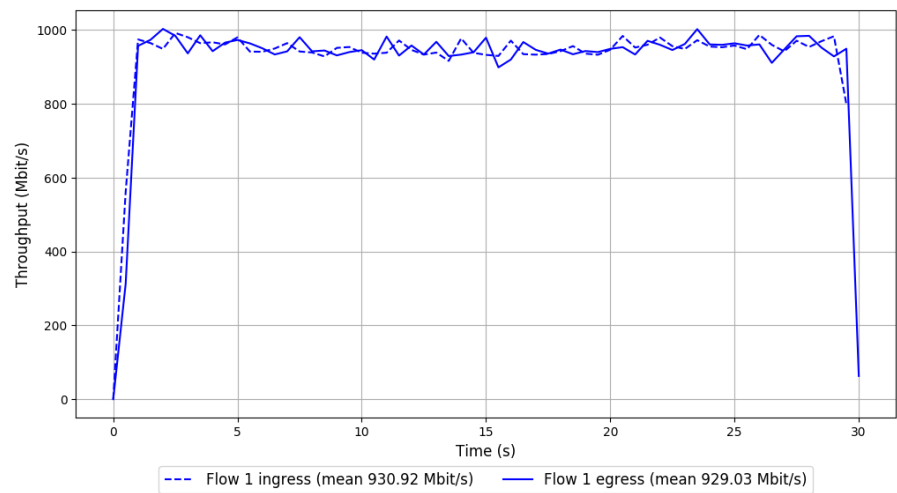
-- Flow 1:

Average throughput: 929.03 Mbit/s

95th percentile per-packet one-way delay: 159.848 ms

Loss rate: 0.20%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-02-12 23:24:45

End at: 2018-02-12 23:25:15

Below is generated by plot.py at 2018-02-13 02:32:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 936.29 Mbit/s

95th percentile per-packet one-way delay: 175.038 ms

Loss rate: 0.74%

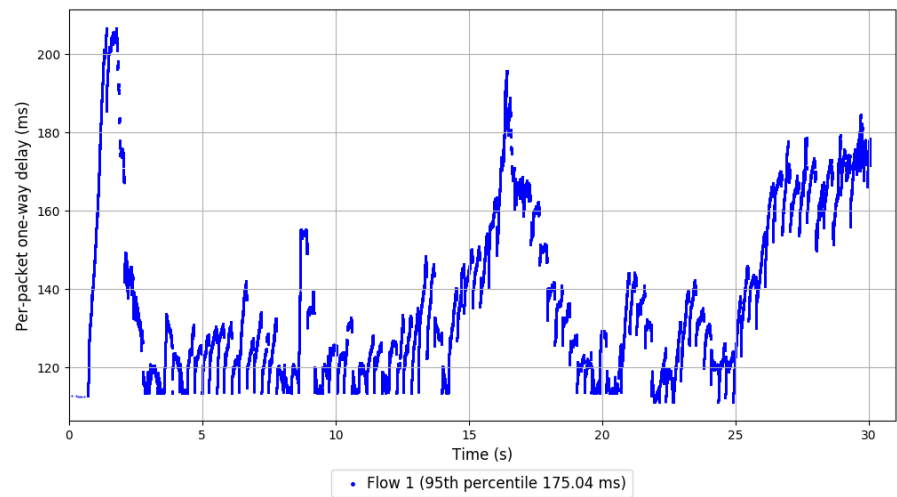
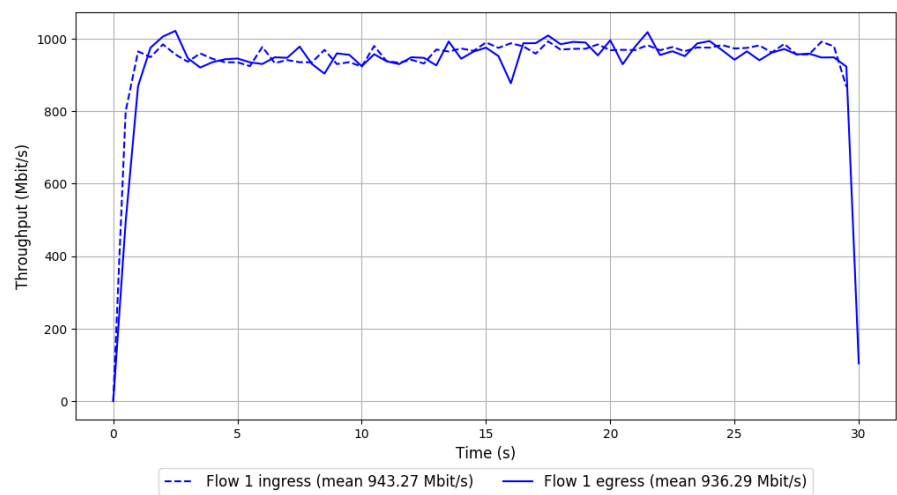
-- Flow 1:

Average throughput: 936.29 Mbit/s

95th percentile per-packet one-way delay: 175.038 ms

Loss rate: 0.74%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-02-12 23:40:04

End at: 2018-02-12 23:40:34

Below is generated by plot.py at 2018-02-13 02:33:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 949.69 Mbit/s

95th percentile per-packet one-way delay: 210.503 ms

Loss rate: 0.06%

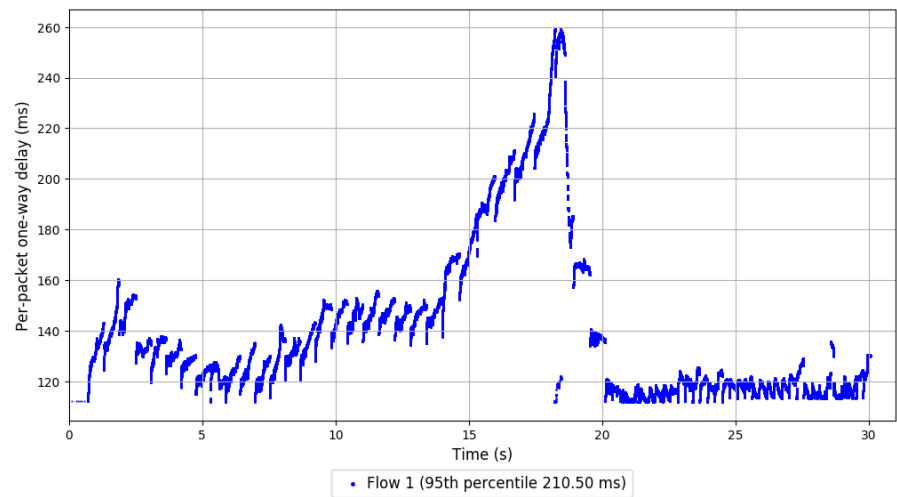
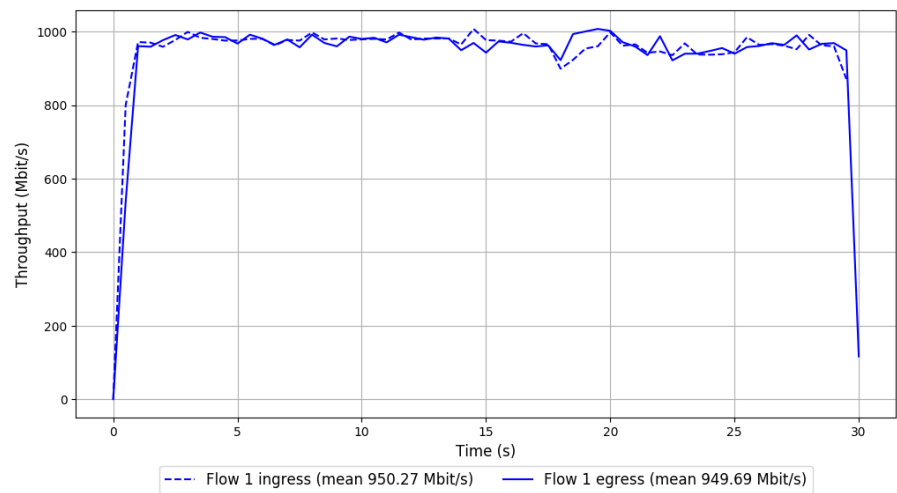
-- Flow 1:

Average throughput: 949.69 Mbit/s

95th percentile per-packet one-way delay: 210.503 ms

Loss rate: 0.06%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-02-12 23:55:45

End at: 2018-02-12 23:56:15

Below is generated by plot.py at 2018-02-13 02:33:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 918.09 Mbit/s

95th percentile per-packet one-way delay: 179.879 ms

Loss rate: 2.79%

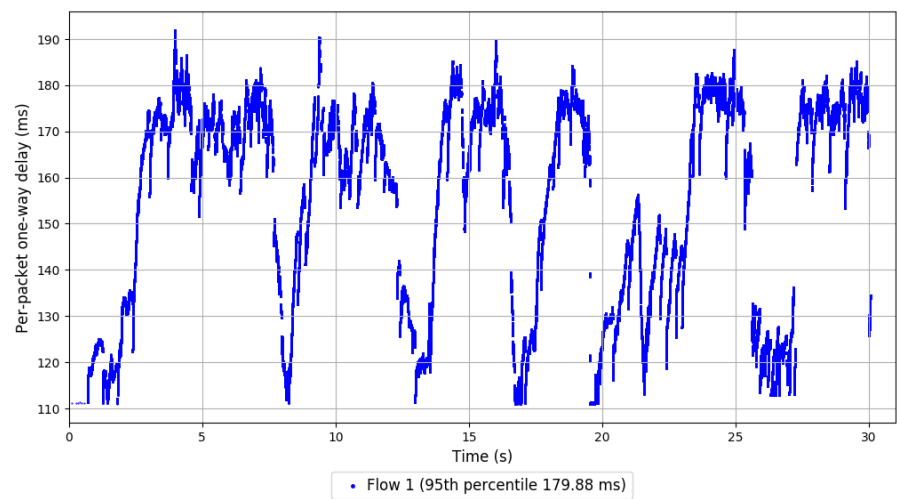
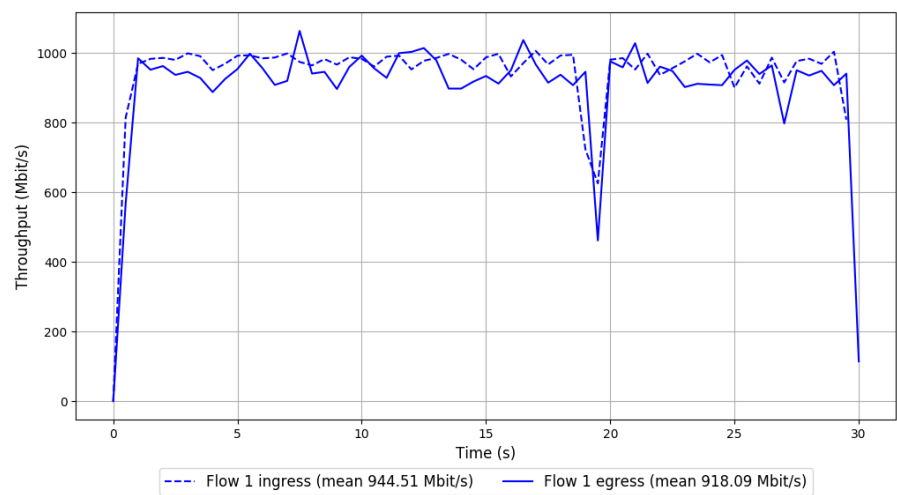
-- Flow 1:

Average throughput: 918.09 Mbit/s

95th percentile per-packet one-way delay: 179.879 ms

Loss rate: 2.79%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-02-13 00:11:03

End at: 2018-02-13 00:11:33

Below is generated by plot.py at 2018-02-13 02:49:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 921.13 Mbit/s

95th percentile per-packet one-way delay: 184.783 ms

Loss rate: 1.82%

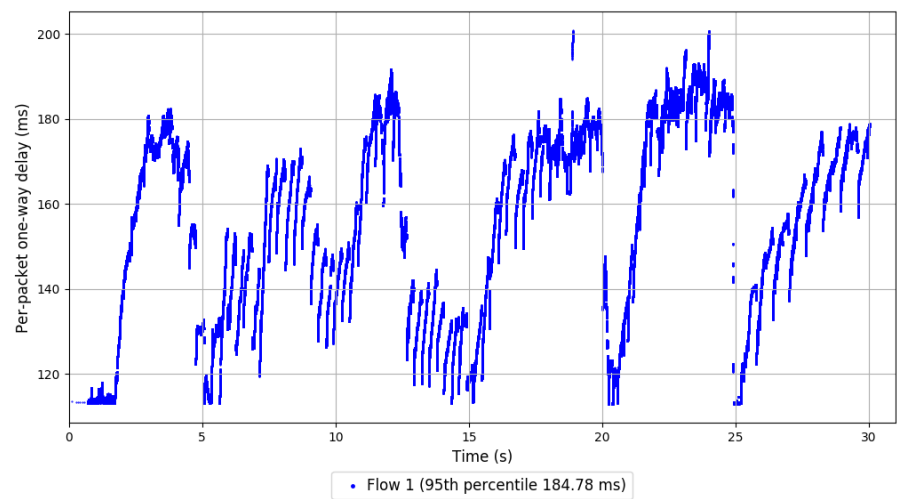
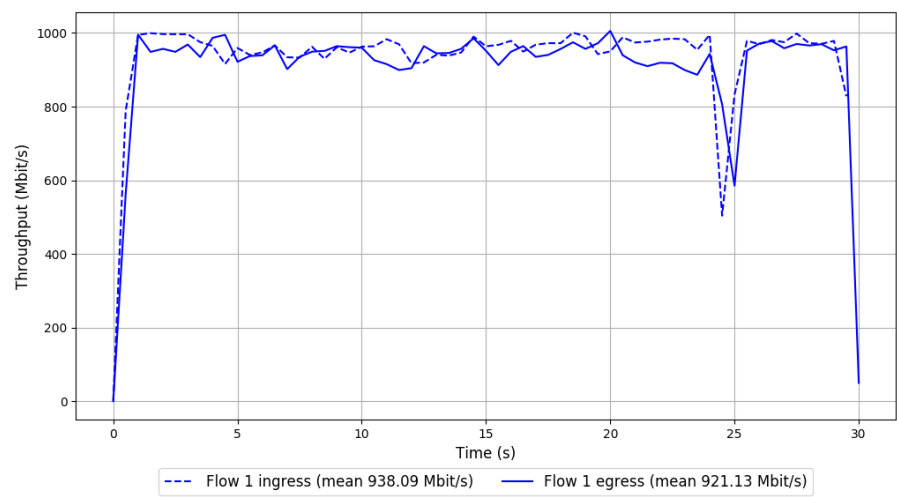
-- Flow 1:

Average throughput: 921.13 Mbit/s

95th percentile per-packet one-way delay: 184.783 ms

Loss rate: 1.82%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-02-13 00:26:42

End at: 2018-02-13 00:27:12

Below is generated by plot.py at 2018-02-13 02:50:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 914.91 Mbit/s

95th percentile per-packet one-way delay: 180.816 ms

Loss rate: 1.75%

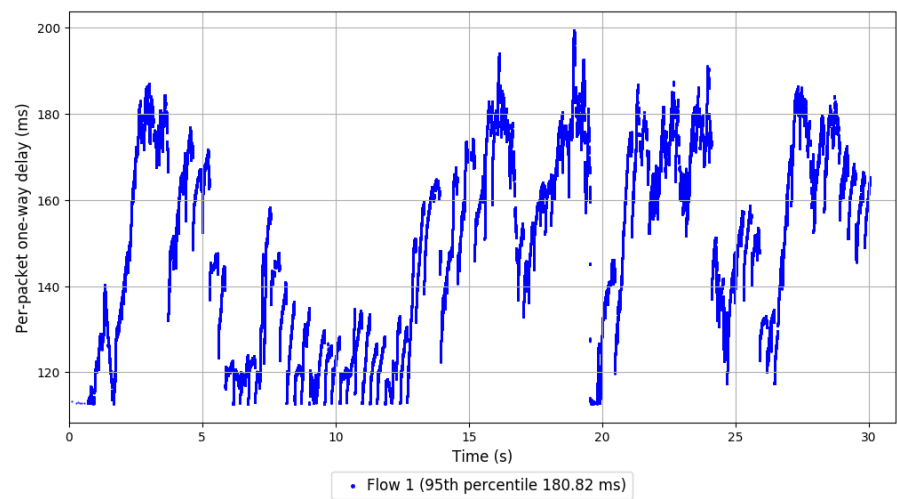
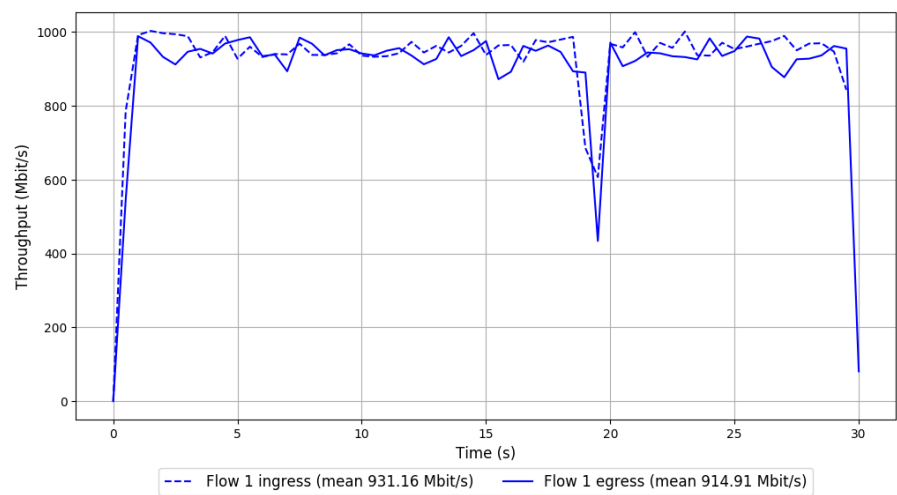
-- Flow 1:

Average throughput: 914.91 Mbit/s

95th percentile per-packet one-way delay: 180.816 ms

Loss rate: 1.75%

Run 10: Report of FillP — Data Link

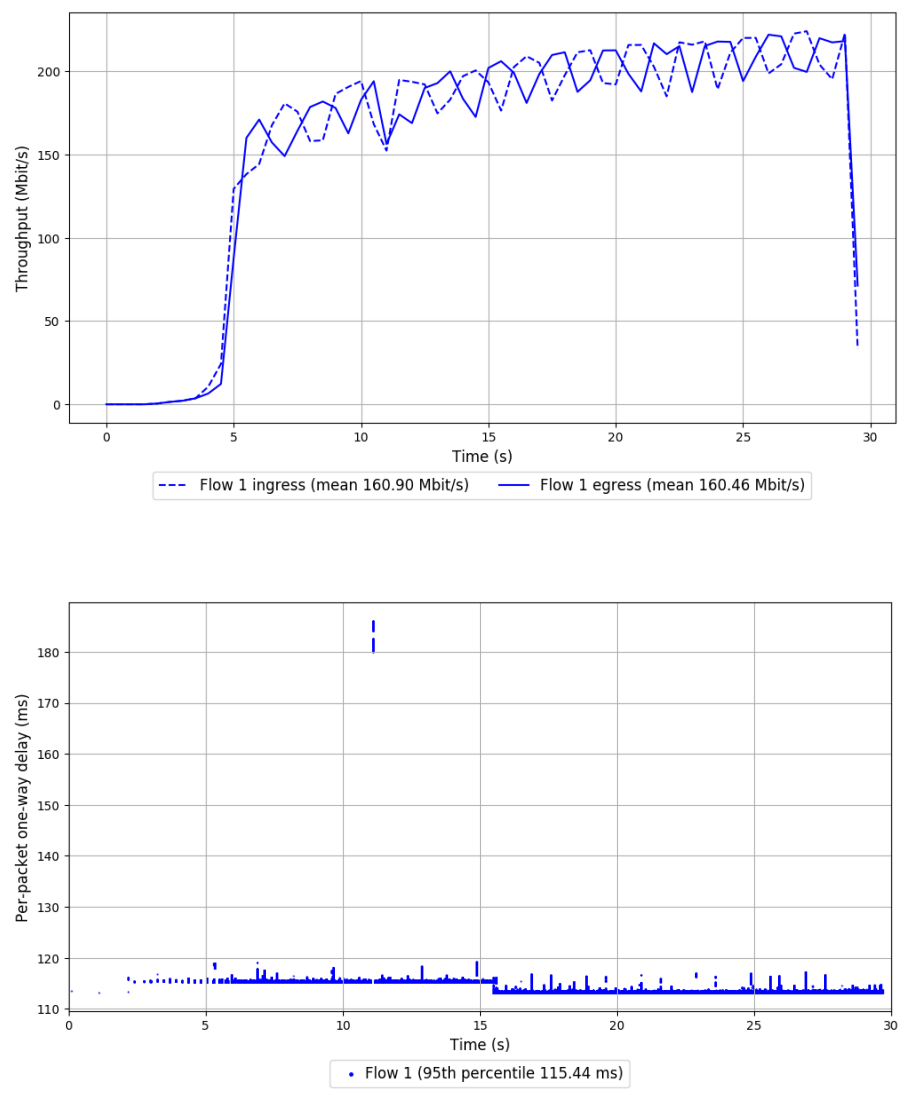


```
Run 1: Statistics of Indigo-1-32

Start at: 2018-02-12 21:54:06
End at: 2018-02-12 21:54:36

# Below is generated by plot.py at 2018-02-13 02:50:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 160.46 Mbit/s
95th percentile per-packet one-way delay: 115.444 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 160.46 Mbit/s
95th percentile per-packet one-way delay: 115.444 ms
Loss rate: 0.28%
```

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

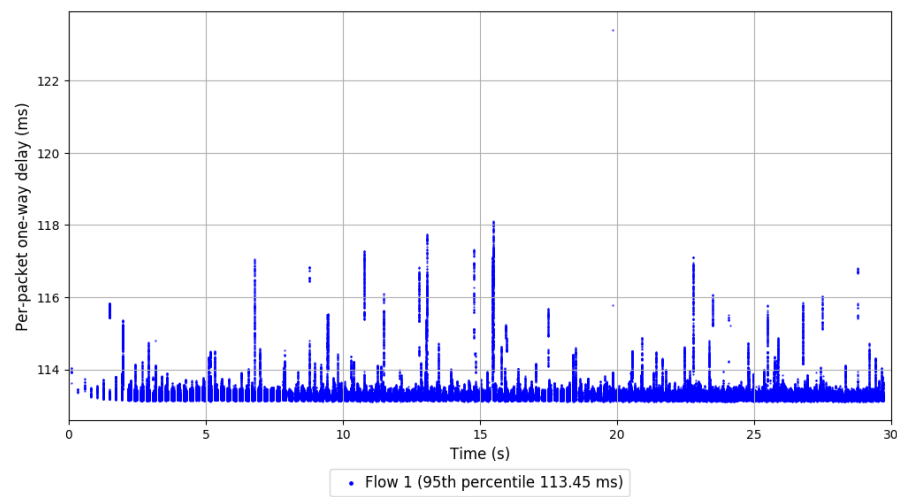
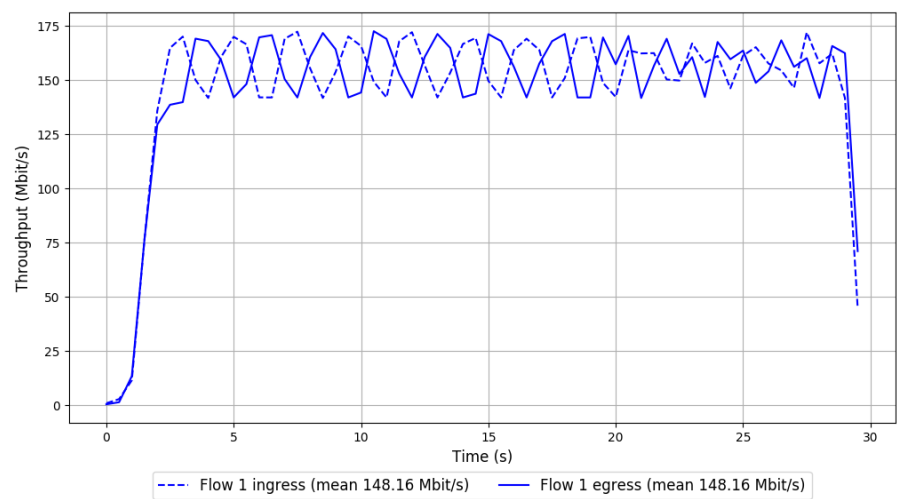


```
Run 2: Statistics of Indigo-1-32

Start at: 2018-02-12 22:09:22
End at: 2018-02-12 22:09:52

# Below is generated by plot.py at 2018-02-13 02:50:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 148.16 Mbit/s
95th percentile per-packet one-way delay: 113.450 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 148.16 Mbit/s
95th percentile per-packet one-way delay: 113.450 ms
Loss rate: 0.00%
```

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



Run 3: Statistics of Indigo-1-32

Start at: 2018-02-12 22:24:51

End at: 2018-02-12 22:25:21

Below is generated by plot.py at 2018-02-13 02:50:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 155.21 Mbit/s

95th percentile per-packet one-way delay: 113.305 ms

Loss rate: 0.00%

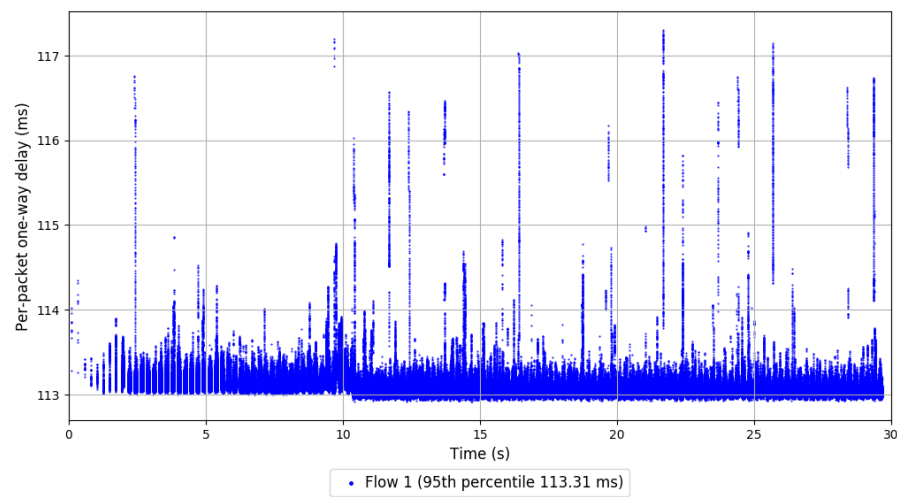
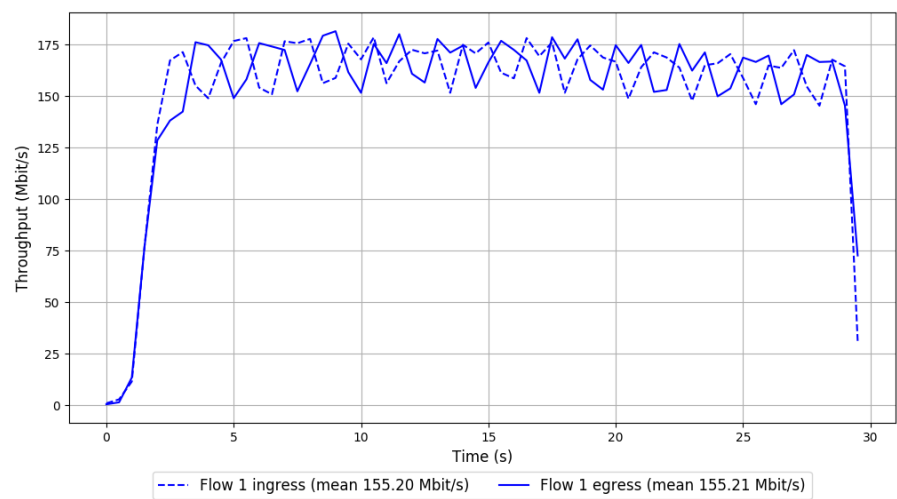
-- Flow 1:

Average throughput: 155.21 Mbit/s

95th percentile per-packet one-way delay: 113.305 ms

Loss rate: 0.00%

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



Run 4: Statistics of Indigo-1-32

Start at: 2018-02-12 22:40:29

End at: 2018-02-12 22:40:59

Below is generated by plot.py at 2018-02-13 02:50:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 153.14 Mbit/s

95th percentile per-packet one-way delay: 113.292 ms

Loss rate: 0.00%

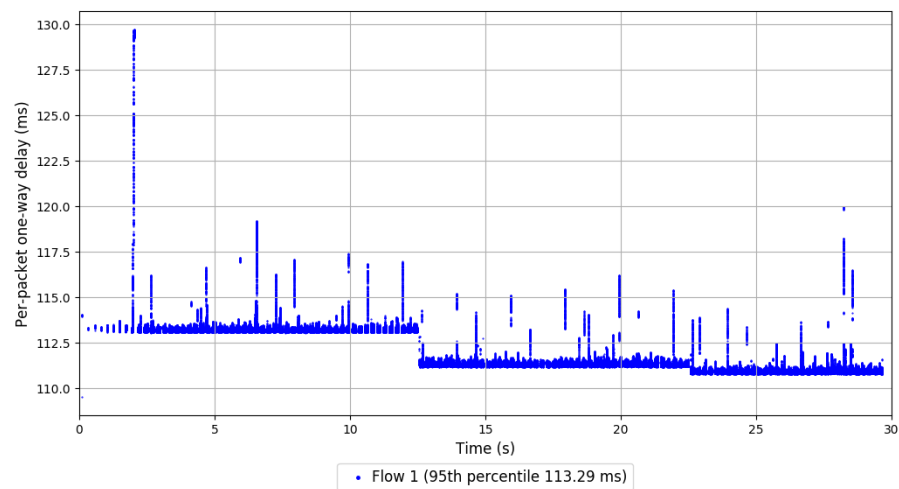
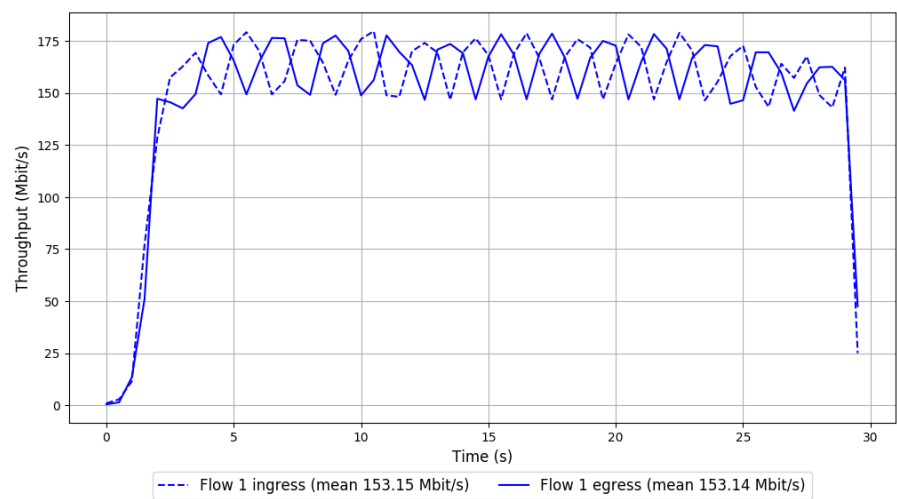
-- Flow 1:

Average throughput: 153.14 Mbit/s

95th percentile per-packet one-way delay: 113.292 ms

Loss rate: 0.00%

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



Run 5: Statistics of Indigo-1-32

Start at: 2018-02-12 22:55:50

End at: 2018-02-12 22:56:20

Below is generated by plot.py at 2018-02-13 02:50:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 160.90 Mbit/s

95th percentile per-packet one-way delay: 111.213 ms

Loss rate: 0.00%

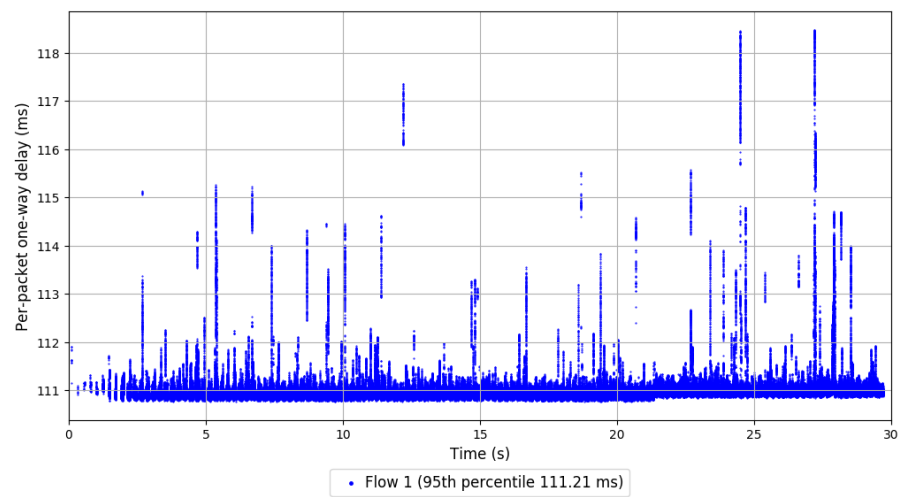
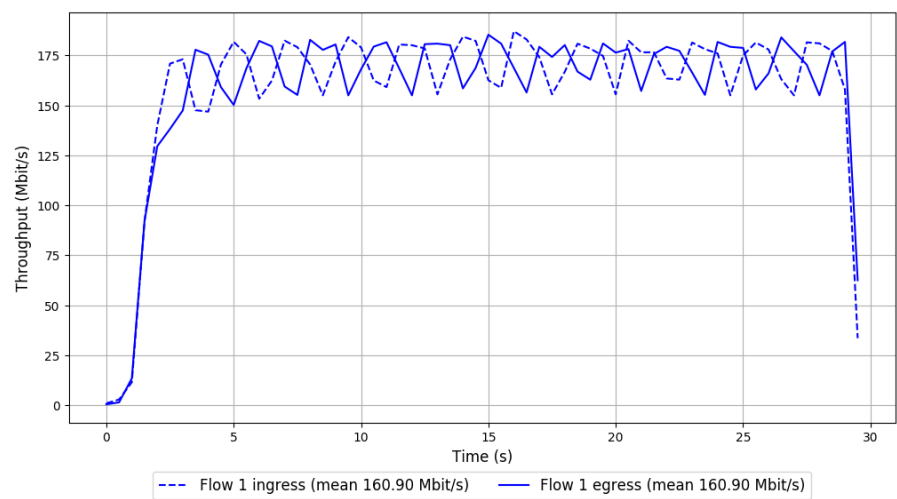
-- Flow 1:

Average throughput: 160.90 Mbit/s

95th percentile per-packet one-way delay: 111.213 ms

Loss rate: 0.00%

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



Run 6: Statistics of Indigo-1-32

Start at: 2018-02-12 23:11:27

End at: 2018-02-12 23:11:57

Below is generated by plot.py at 2018-02-13 02:50:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 147.65 Mbit/s

95th percentile per-packet one-way delay: 115.652 ms

Loss rate: 0.00%

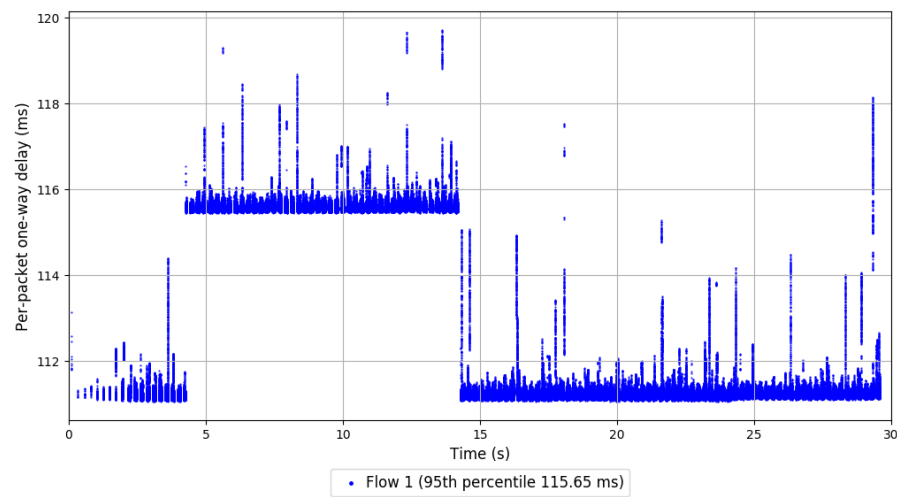
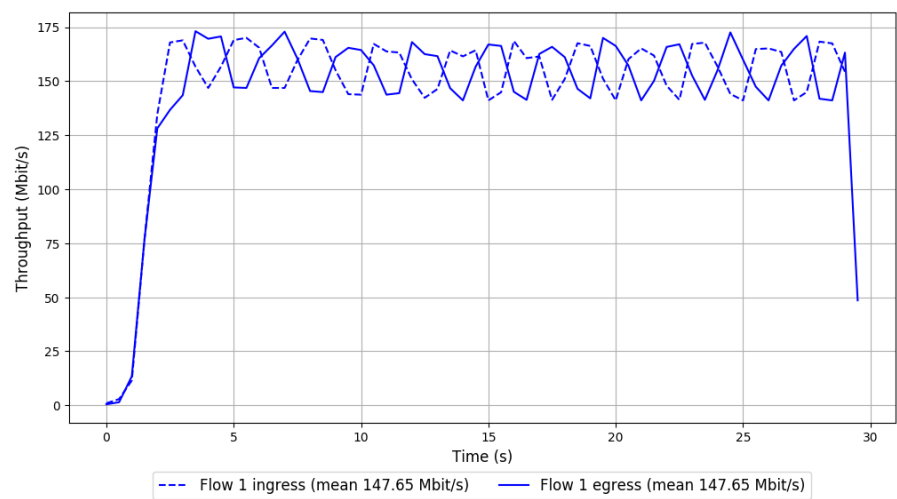
-- Flow 1:

Average throughput: 147.65 Mbit/s

95th percentile per-packet one-way delay: 115.652 ms

Loss rate: 0.00%

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



Run 7: Statistics of Indigo-1-32

Start at: 2018-02-12 23:26:54

End at: 2018-02-12 23:27:24

Below is generated by plot.py at 2018-02-13 02:50:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 150.05 Mbit/s

95th percentile per-packet one-way delay: 116.044 ms

Loss rate: 0.08%

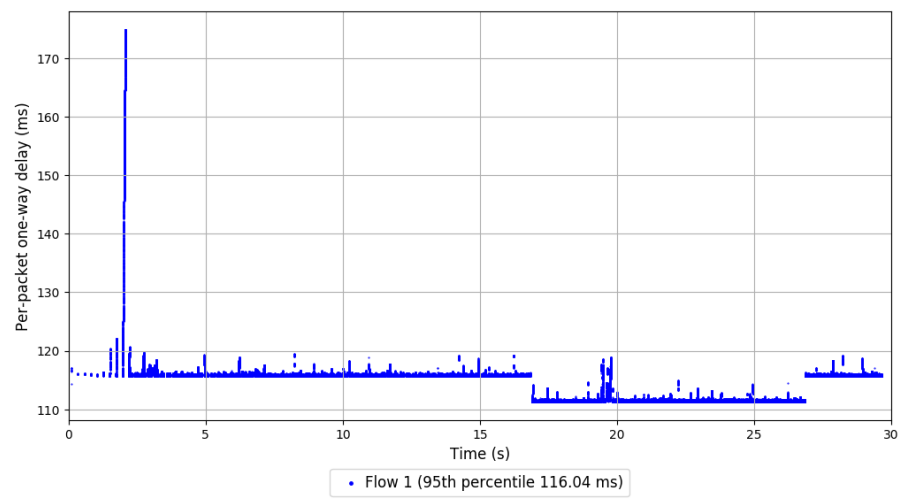
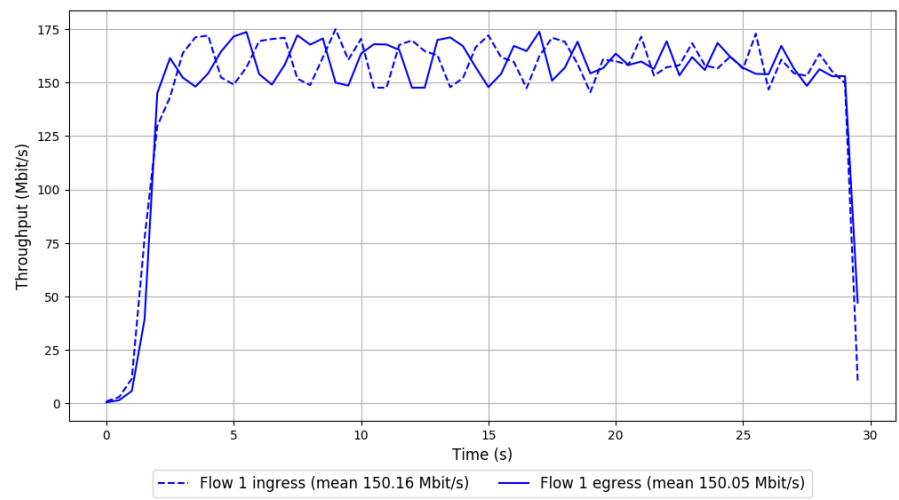
-- Flow 1:

Average throughput: 150.05 Mbit/s

95th percentile per-packet one-way delay: 116.044 ms

Loss rate: 0.08%

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



Run 8: Statistics of Indigo-1-32

Start at: 2018-02-12 23:42:12

End at: 2018-02-12 23:42:42

Below is generated by plot.py at 2018-02-13 02:50:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 219.47 Mbit/s

95th percentile per-packet one-way delay: 110.822 ms

Loss rate: 0.00%

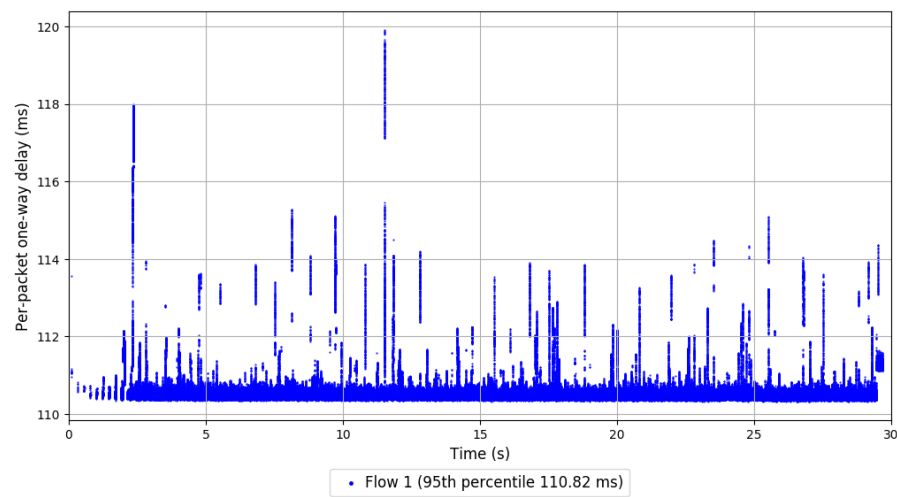
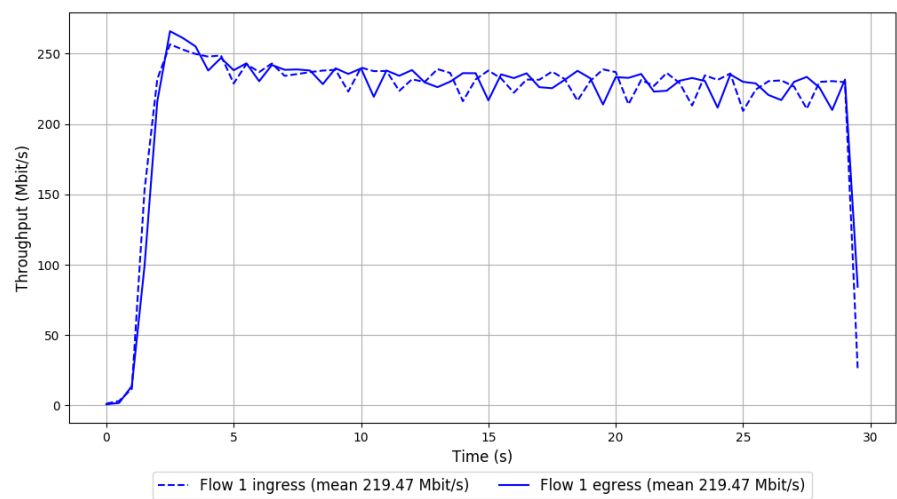
-- Flow 1:

Average throughput: 219.47 Mbit/s

95th percentile per-packet one-way delay: 110.822 ms

Loss rate: 0.00%

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



Run 9: Statistics of Indigo-1-32

Start at: 2018-02-12 23:57:53

End at: 2018-02-12 23:58:23

Below is generated by plot.py at 2018-02-13 02:50:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 215.94 Mbit/s

95th percentile per-packet one-way delay: 112.523 ms

Loss rate: 0.01%

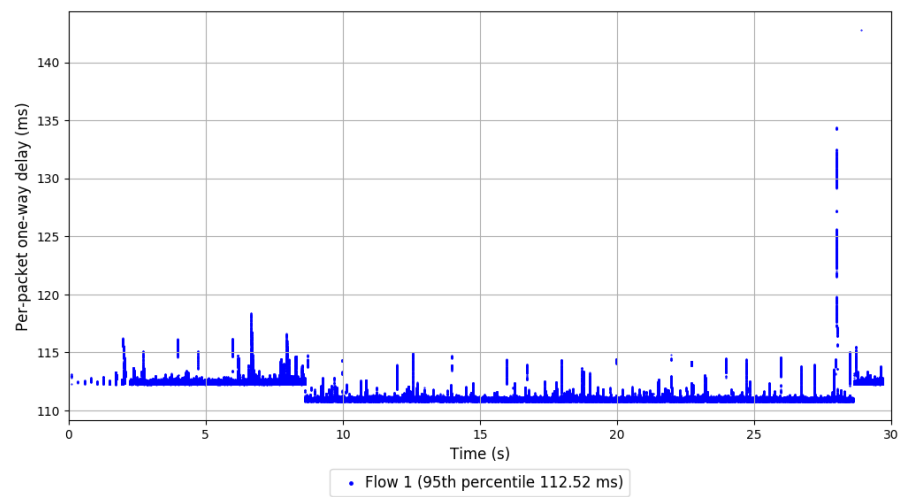
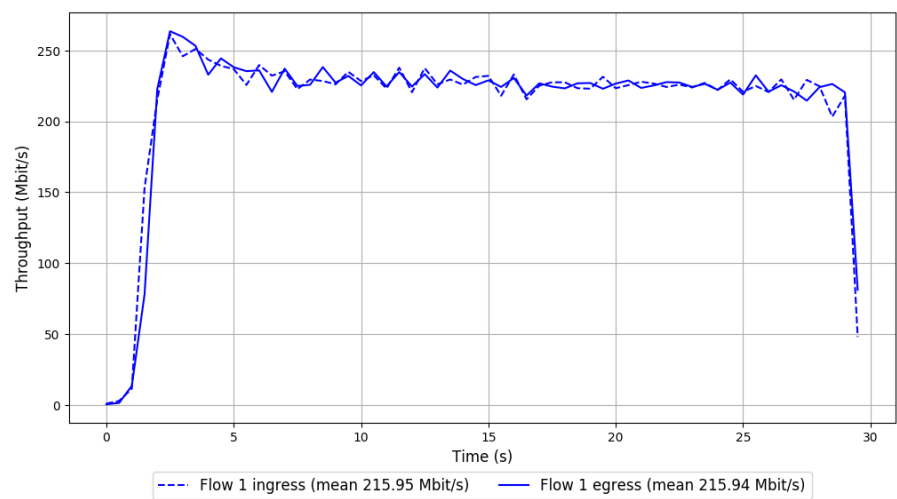
-- Flow 1:

Average throughput: 215.94 Mbit/s

95th percentile per-packet one-way delay: 112.523 ms

Loss rate: 0.01%

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



Run 10: Statistics of Indigo-1-32

Start at: 2018-02-13 00:13:18

End at: 2018-02-13 00:13:48

Below is generated by plot.py at 2018-02-13 02:50:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 167.36 Mbit/s

95th percentile per-packet one-way delay: 113.139 ms

Loss rate: 0.00%

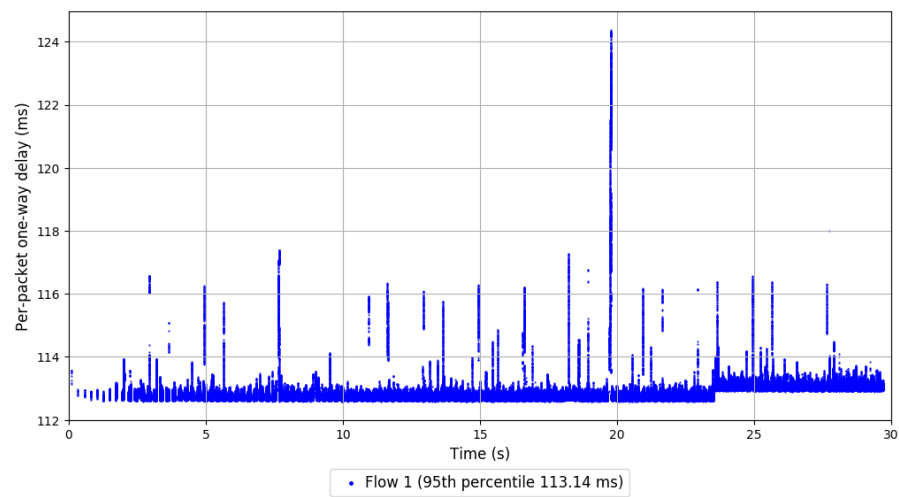
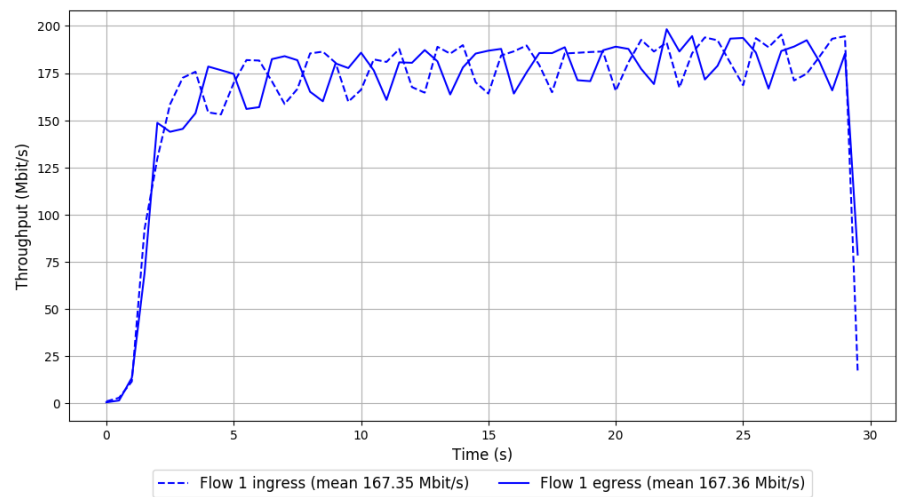
-- Flow 1:

Average throughput: 167.36 Mbit/s

95th percentile per-packet one-way delay: 113.139 ms

Loss rate: 0.00%

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



Run 1: Statistics of Vivace-latency

Start at: 2018-02-12 22:01:17

End at: 2018-02-12 22:01:48

Below is generated by plot.py at 2018-02-13 02:50:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 343.69 Mbit/s

95th percentile per-packet one-way delay: 118.171 ms

Loss rate: 0.09%

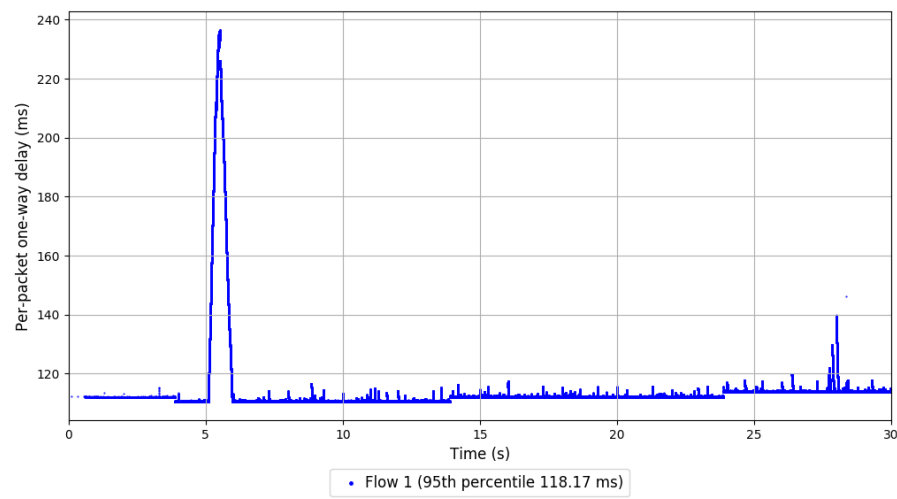
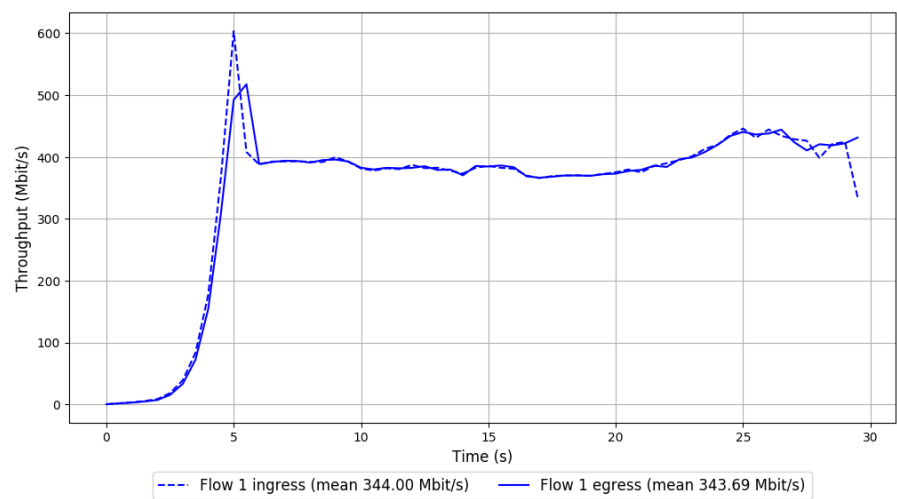
-- Flow 1:

Average throughput: 343.69 Mbit/s

95th percentile per-packet one-way delay: 118.171 ms

Loss rate: 0.09%

Run 1: Report of Vivace-latency — Data Link



Run 2: Statistics of Vivace-latency

Start at: 2018-02-12 22:16:43

End at: 2018-02-12 22:17:13

Below is generated by plot.py at 2018-02-13 02:50:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 384.27 Mbit/s

95th percentile per-packet one-way delay: 113.089 ms

Loss rate: 0.03%

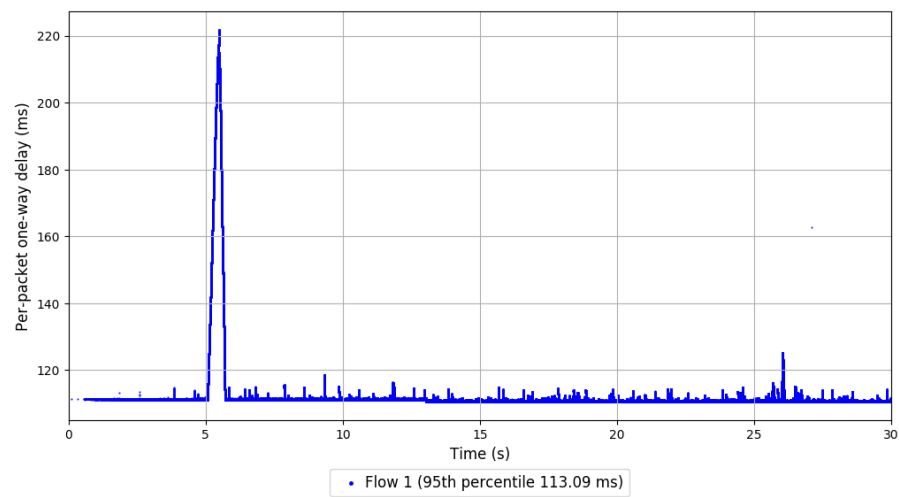
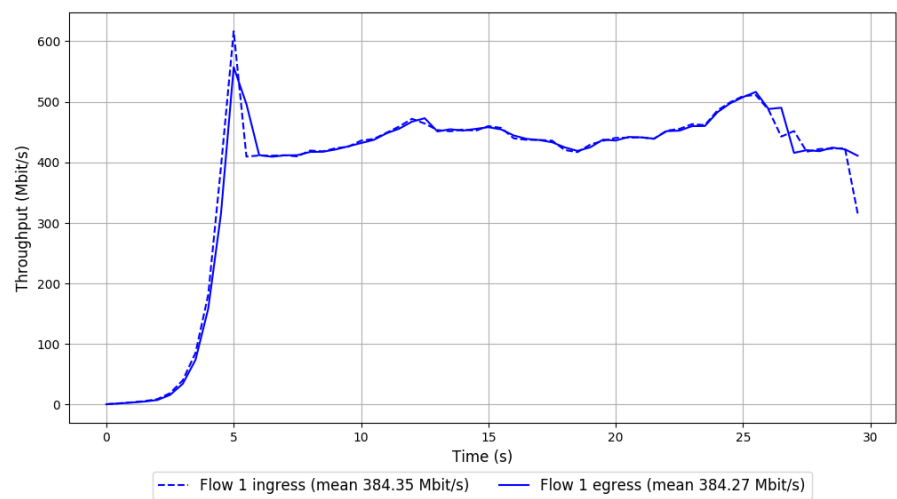
-- Flow 1:

Average throughput: 384.27 Mbit/s

95th percentile per-packet one-way delay: 113.089 ms

Loss rate: 0.03%

Run 2: Report of Vivace-latency — Data Link



Run 3: Statistics of Vivace-latency

Start at: 2018-02-12 22:32:16

End at: 2018-02-12 22:32:46

Below is generated by plot.py at 2018-02-13 02:50:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 356.58 Mbit/s

95th percentile per-packet one-way delay: 112.662 ms

Loss rate: 0.00%

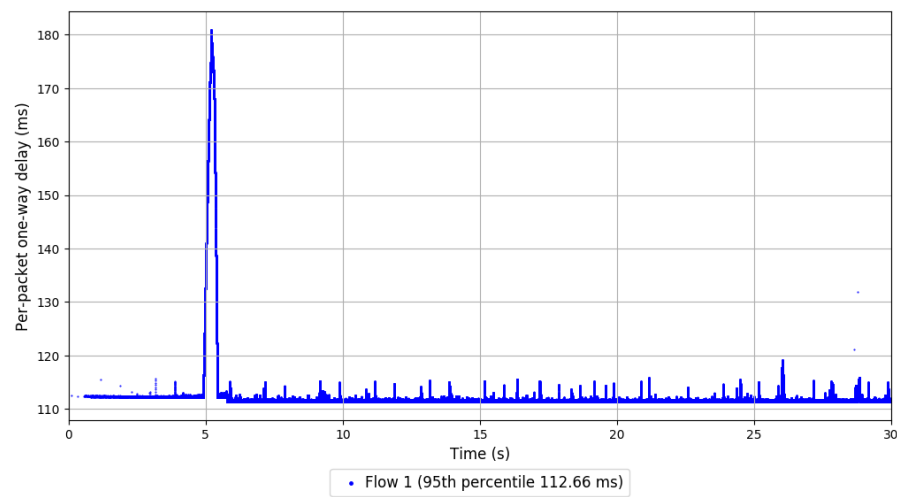
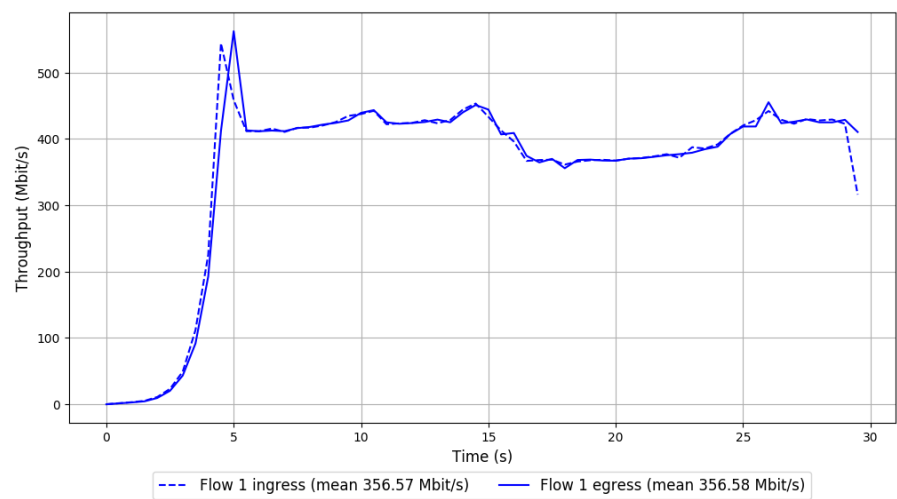
-- Flow 1:

Average throughput: 356.58 Mbit/s

95th percentile per-packet one-way delay: 112.662 ms

Loss rate: 0.00%

Run 3: Report of Vivace-latency — Data Link



Run 4: Statistics of Vivace-latency

Start at: 2018-02-12 22:47:42

End at: 2018-02-12 22:48:12

Below is generated by plot.py at 2018-02-13 02:50:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 312.75 Mbit/s

95th percentile per-packet one-way delay: 113.184 ms

Loss rate: 0.00%

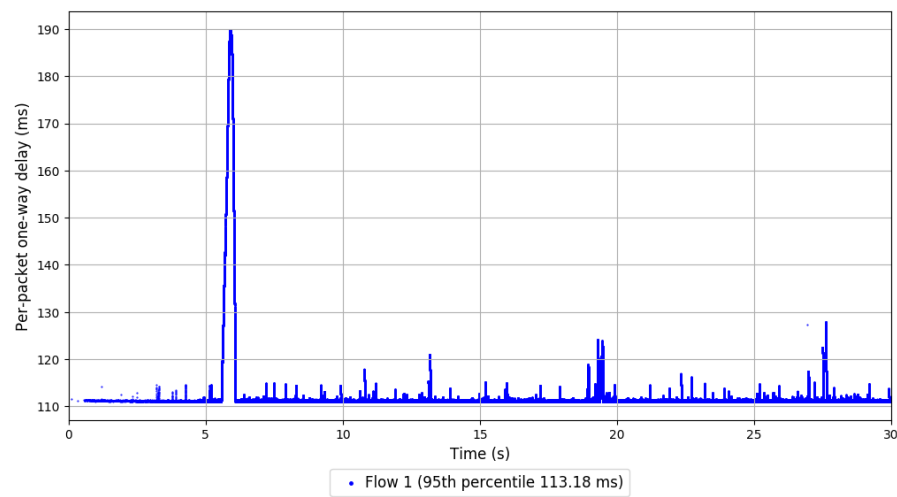
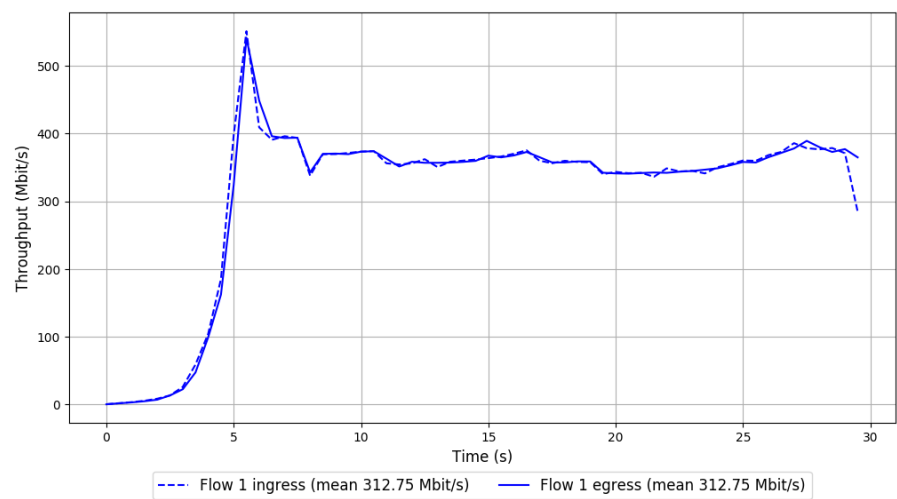
-- Flow 1:

Average throughput: 312.75 Mbit/s

95th percentile per-packet one-way delay: 113.184 ms

Loss rate: 0.00%

Run 4: Report of Vivace-latency — Data Link



Run 5: Statistics of Vivace-latency

Start at: 2018-02-12 23:03:13

End at: 2018-02-12 23:03:43

Below is generated by plot.py at 2018-02-13 02:50:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 365.24 Mbit/s

95th percentile per-packet one-way delay: 172.247 ms

Loss rate: 0.76%

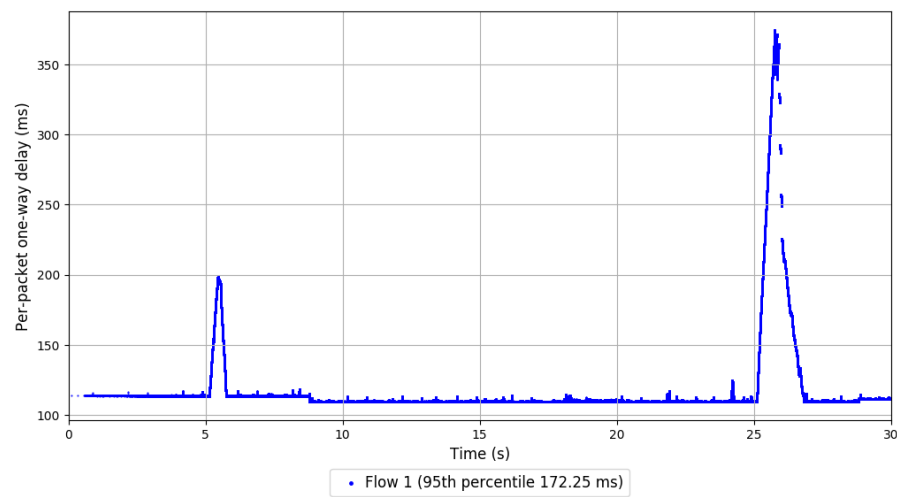
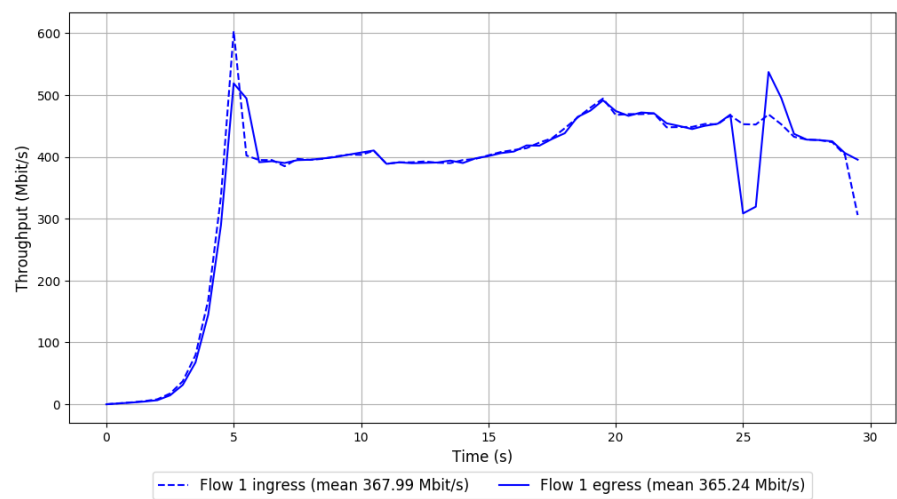
-- Flow 1:

Average throughput: 365.24 Mbit/s

95th percentile per-packet one-way delay: 172.247 ms

Loss rate: 0.76%

Run 5: Report of Vivace-latency — Data Link



Run 6: Statistics of Vivace-latency

Start at: 2018-02-12 23:18:46

End at: 2018-02-12 23:19:16

Below is generated by plot.py at 2018-02-13 02:50:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 346.82 Mbit/s

95th percentile per-packet one-way delay: 120.074 ms

Loss rate: 0.11%

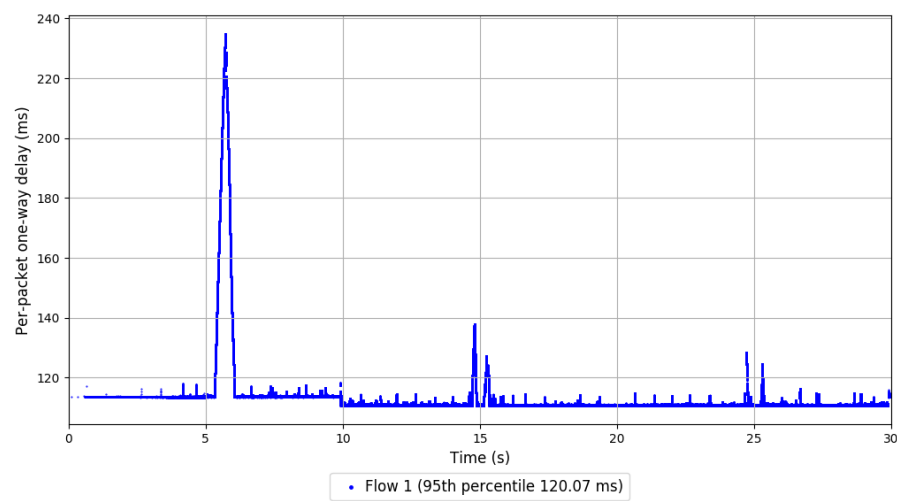
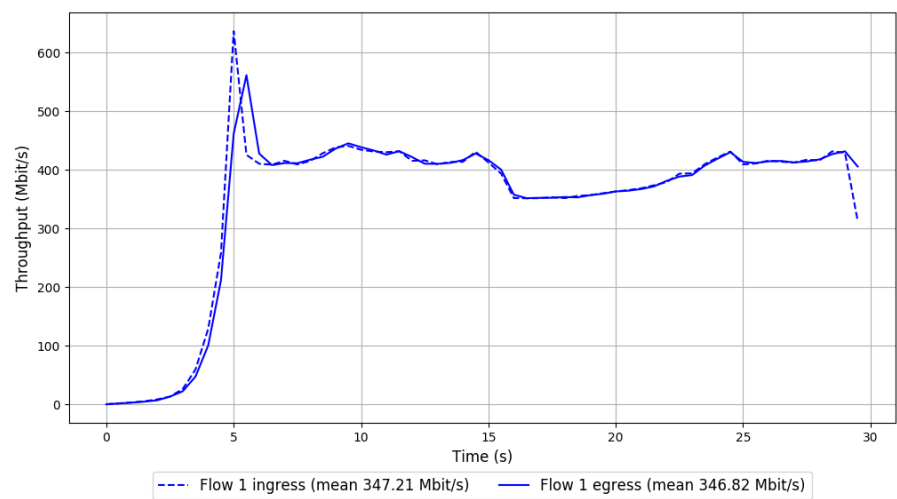
-- Flow 1:

Average throughput: 346.82 Mbit/s

95th percentile per-packet one-way delay: 120.074 ms

Loss rate: 0.11%

Run 6: Report of Vivace-latency — Data Link



Run 7: Statistics of Vivace-latency

Start at: 2018-02-12 23:34:11

End at: 2018-02-12 23:34:41

Below is generated by plot.py at 2018-02-13 02:50:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 310.15 Mbit/s

95th percentile per-packet one-way delay: 112.673 ms

Loss rate: 0.00%

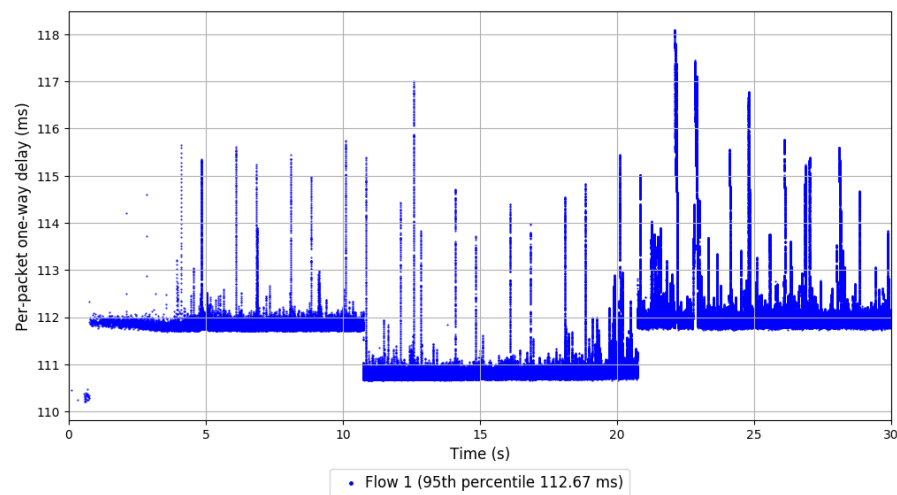
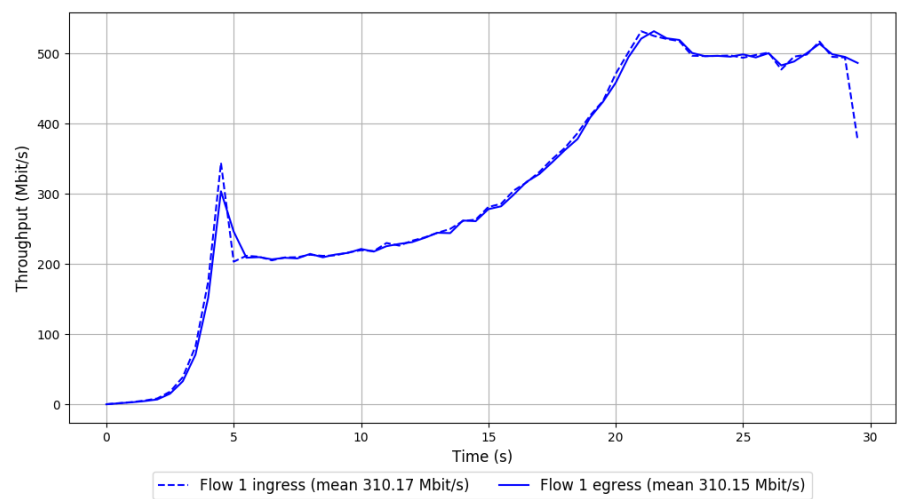
-- Flow 1:

Average throughput: 310.15 Mbit/s

95th percentile per-packet one-way delay: 112.673 ms

Loss rate: 0.00%

Run 7: Report of Vivace-latency — Data Link



Run 8: Statistics of Vivace-latency

Start at: 2018-02-12 23:49:49

End at: 2018-02-12 23:50:19

Below is generated by plot.py at 2018-02-13 02:50:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 356.76 Mbit/s

95th percentile per-packet one-way delay: 129.290 ms

Loss rate: 0.41%

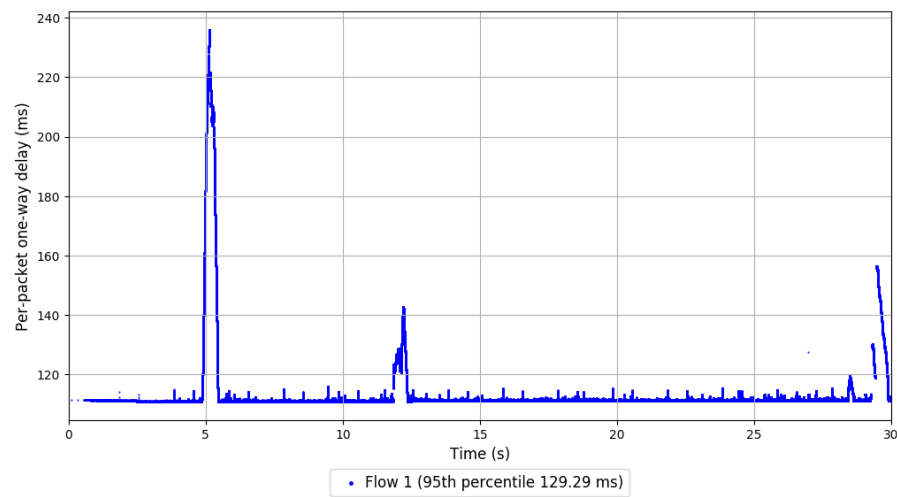
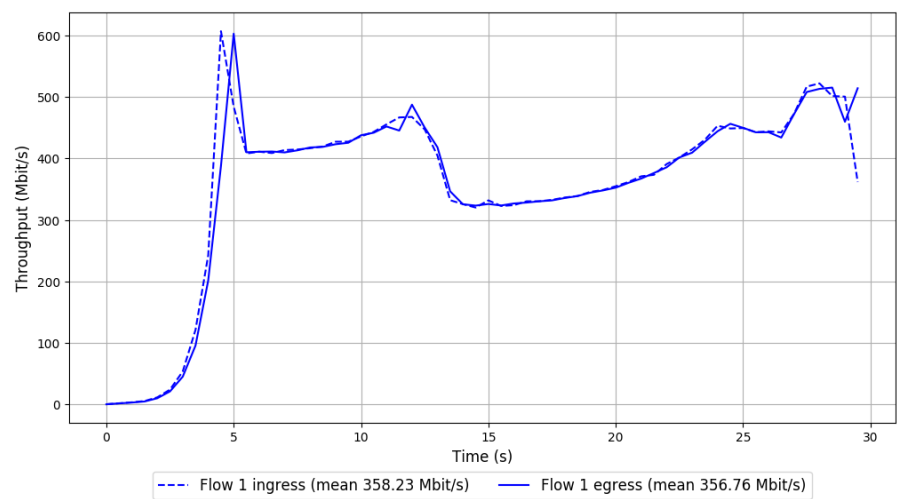
-- Flow 1:

Average throughput: 356.76 Mbit/s

95th percentile per-packet one-way delay: 129.290 ms

Loss rate: 0.41%

Run 8: Report of Vivace-latency — Data Link



Run 9: Statistics of Vivace-latency

Start at: 2018-02-13 00:05:08

End at: 2018-02-13 00:05:38

Below is generated by plot.py at 2018-02-13 02:50:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 346.69 Mbit/s

95th percentile per-packet one-way delay: 219.453 ms

Loss rate: 2.02%

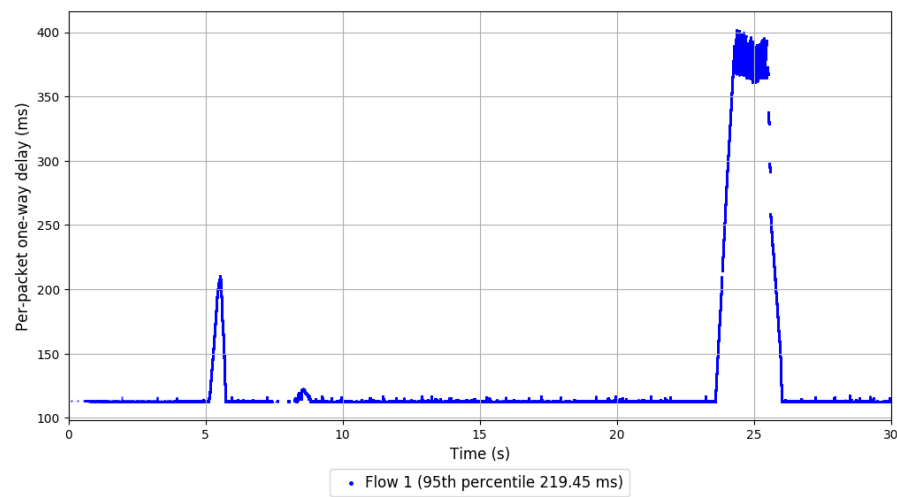
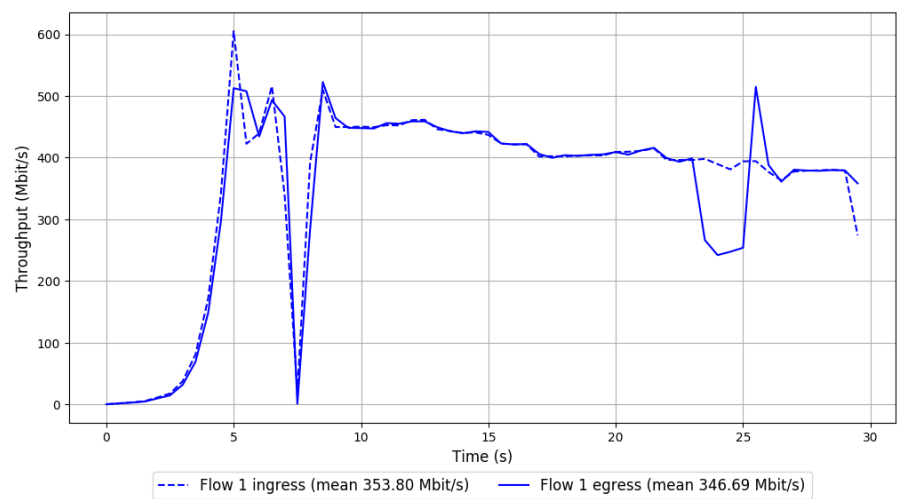
-- Flow 1:

Average throughput: 346.69 Mbit/s

95th percentile per-packet one-way delay: 219.453 ms

Loss rate: 2.02%

Run 9: Report of Vivace-latency — Data Link



Run 10: Statistics of Vivace-latency

Start at: 2018-02-13 00:20:47

End at: 2018-02-13 00:21:17

Below is generated by plot.py at 2018-02-13 02:51:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 364.60 Mbit/s

95th percentile per-packet one-way delay: 118.124 ms

Loss rate: 0.00%

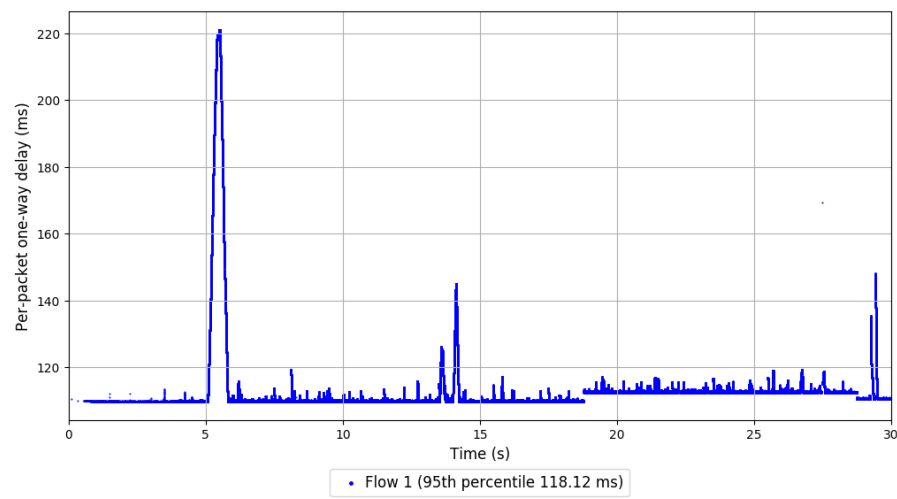
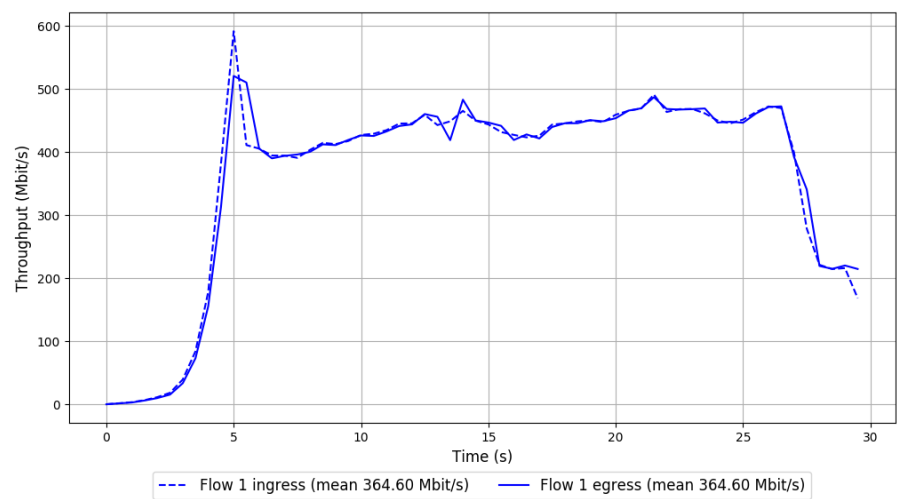
-- Flow 1:

Average throughput: 364.60 Mbit/s

95th percentile per-packet one-way delay: 118.124 ms

Loss rate: 0.00%

Run 10: Report of Vivace-latency — Data Link

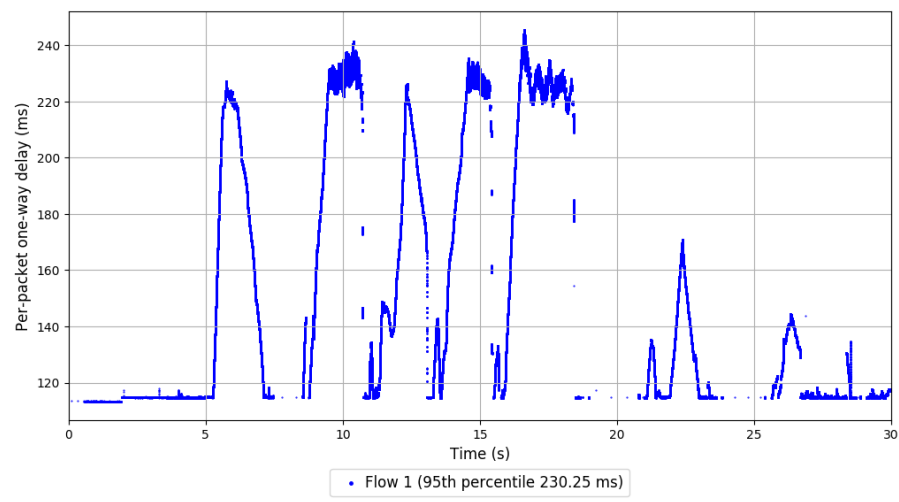
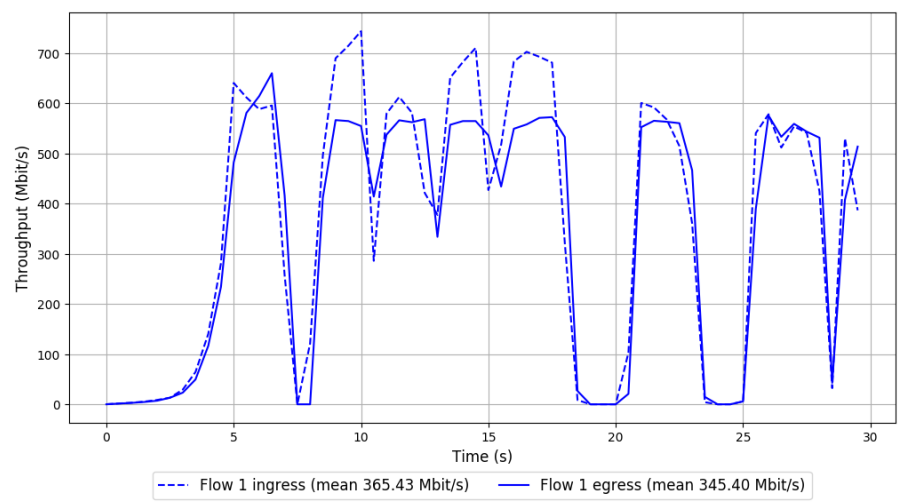


```
Run 1: Statistics of Vivace-loss

Start at: 2018-02-12 21:56:19
End at: 2018-02-12 21:56:49

# Below is generated by plot.py at 2018-02-13 02:51:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 345.40 Mbit/s
95th percentile per-packet one-way delay: 230.250 ms
Loss rate: 5.47%
-- Flow 1:
Average throughput: 345.40 Mbit/s
95th percentile per-packet one-way delay: 230.250 ms
Loss rate: 5.47%
```

Run 1: Report of Vivace-loss — Data Link



Run 2: Statistics of Vivace-loss

Start at: 2018-02-12 22:11:42

End at: 2018-02-12 22:12:12

Below is generated by plot.py at 2018-02-13 02:51:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 217.00 Mbit/s

95th percentile per-packet one-way delay: 233.099 ms

Loss rate: 3.97%

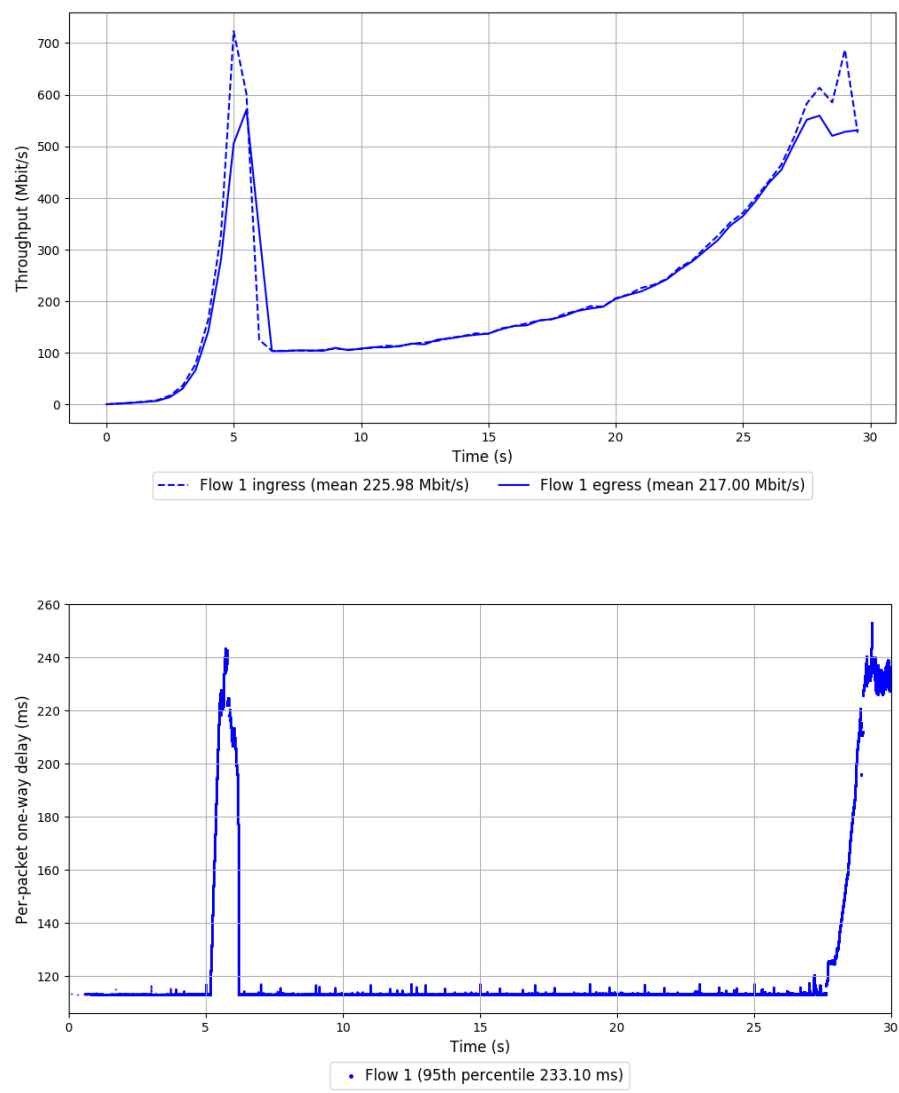
-- Flow 1:

Average throughput: 217.00 Mbit/s

95th percentile per-packet one-way delay: 233.099 ms

Loss rate: 3.97%

Run 2: Report of Vivace-loss — Data Link



Run 3: Statistics of Vivace-loss

Start at: 2018-02-12 22:27:11

End at: 2018-02-12 22:27:41

Below is generated by plot.py at 2018-02-13 02:56:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 396.98 Mbit/s

95th percentile per-packet one-way delay: 224.992 ms

Loss rate: 2.24%

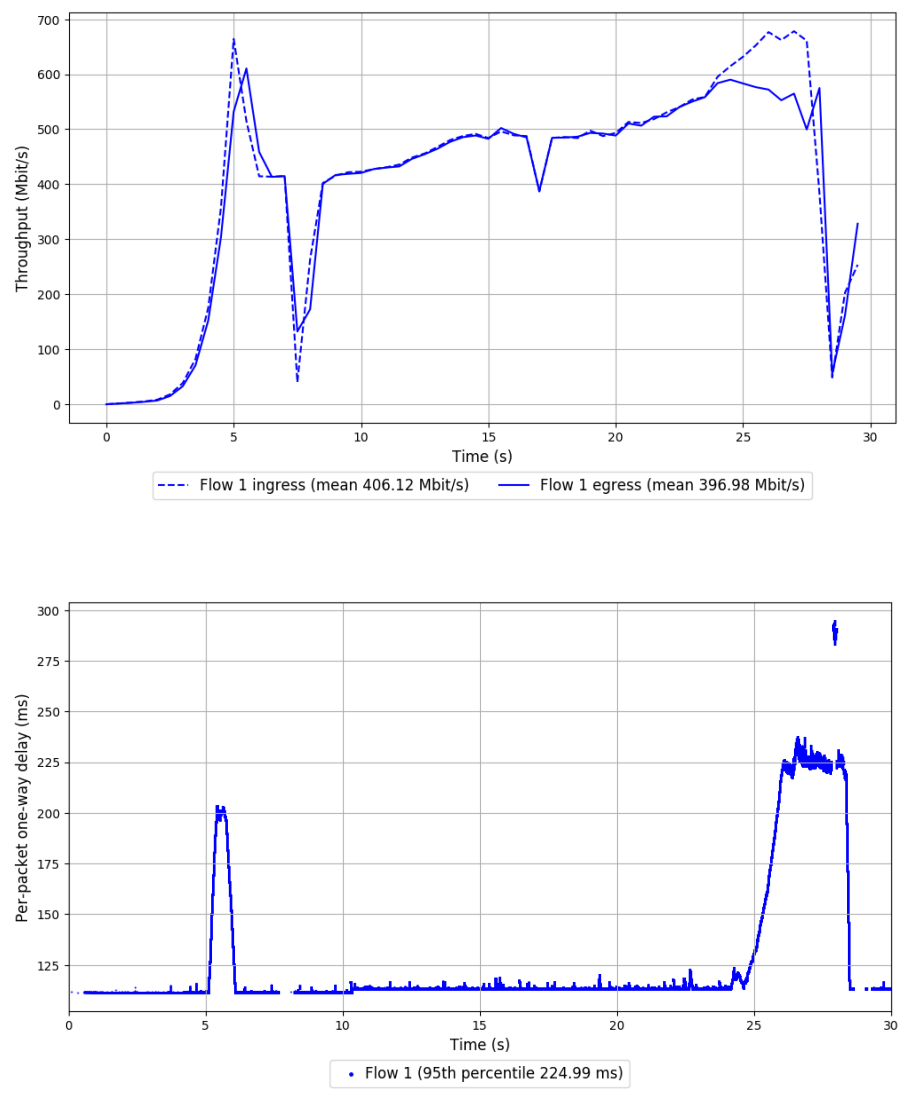
-- Flow 1:

Average throughput: 396.98 Mbit/s

95th percentile per-packet one-way delay: 224.992 ms

Loss rate: 2.24%

Run 3: Report of Vivace-loss — Data Link



Run 4: Statistics of Vivace-loss

Start at: 2018-02-12 22:42:48

End at: 2018-02-12 22:43:18

Below is generated by plot.py at 2018-02-13 02:56:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 193.80 Mbit/s

95th percentile per-packet one-way delay: 240.513 ms

Loss rate: 4.32%

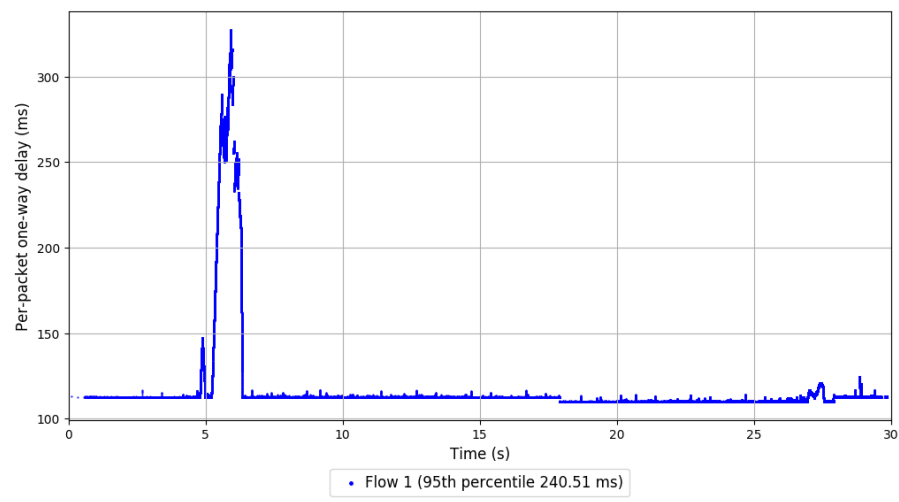
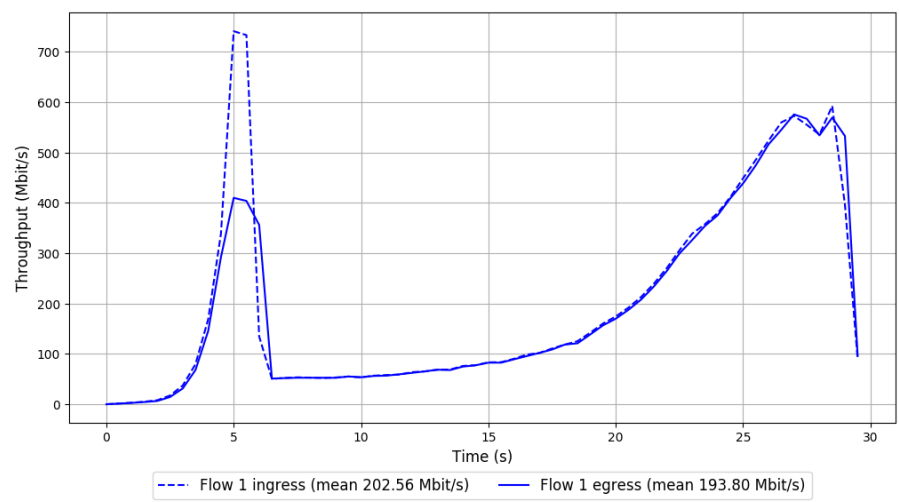
-- Flow 1:

Average throughput: 193.80 Mbit/s

95th percentile per-packet one-way delay: 240.513 ms

Loss rate: 4.32%

Run 4: Report of Vivace-loss — Data Link



Run 5: Statistics of Vivace-loss

Start at: 2018-02-12 22:58:10

End at: 2018-02-12 22:58:40

Below is generated by plot.py at 2018-02-13 02:56:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 356.93 Mbit/s

95th percentile per-packet one-way delay: 233.571 ms

Loss rate: 1.60%

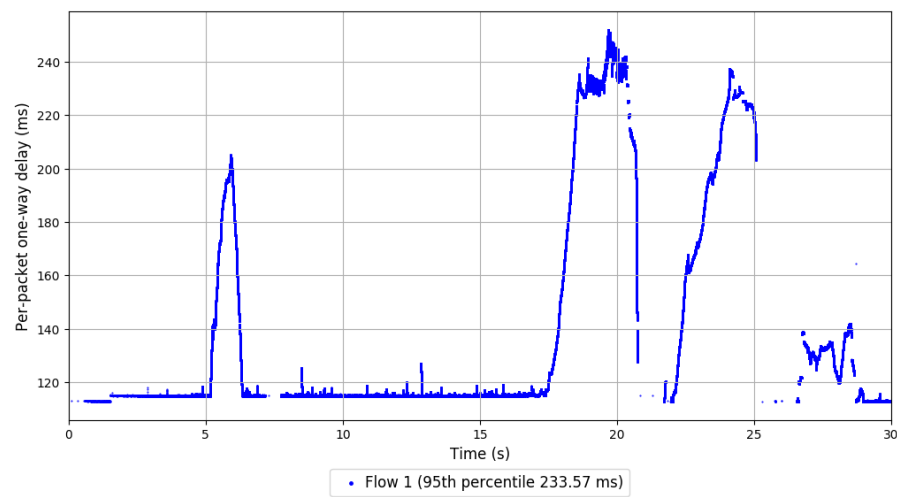
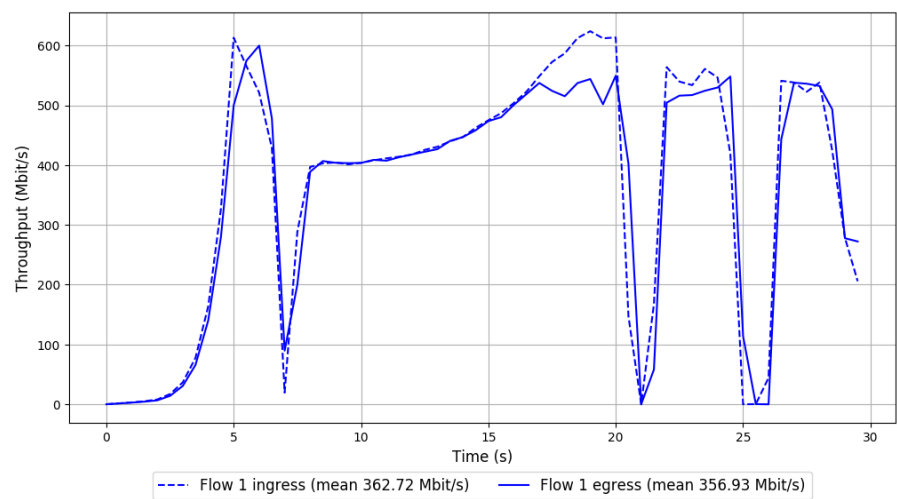
-- Flow 1:

Average throughput: 356.93 Mbit/s

95th percentile per-packet one-way delay: 233.571 ms

Loss rate: 1.60%

Run 5: Report of Vivace-loss — Data Link



Run 6: Statistics of Vivace-loss

Start at: 2018-02-12 23:13:45

End at: 2018-02-12 23:14:15

Below is generated by plot.py at 2018-02-13 02:57:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 384.08 Mbit/s

95th percentile per-packet one-way delay: 143.827 ms

Loss rate: 0.09%

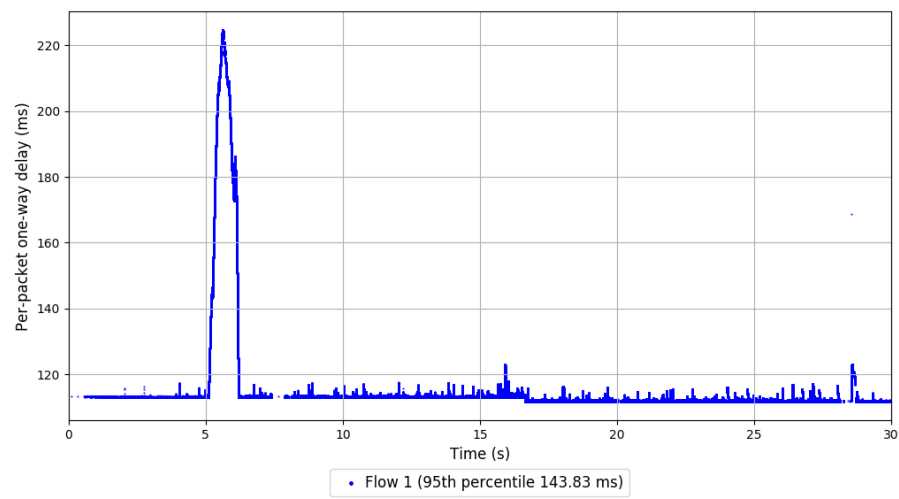
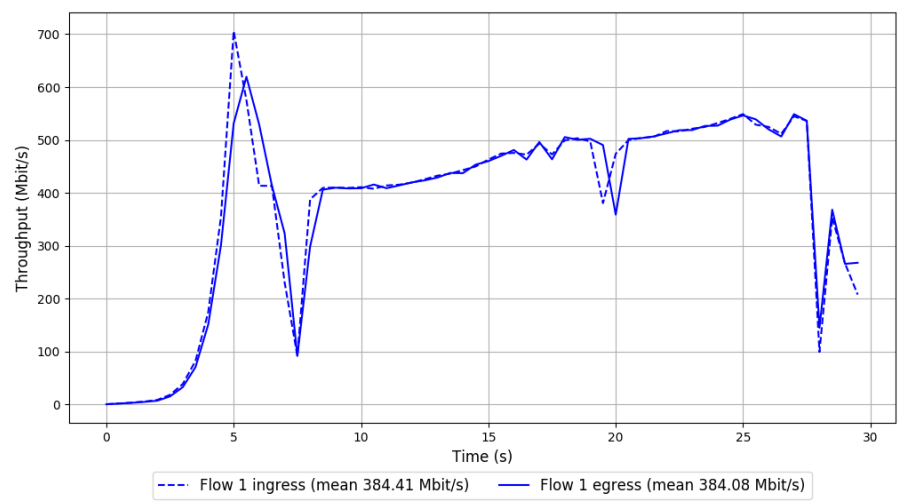
-- Flow 1:

Average throughput: 384.08 Mbit/s

95th percentile per-packet one-way delay: 143.827 ms

Loss rate: 0.09%

Run 6: Report of Vivace-loss — Data Link



Run 7: Statistics of Vivace-loss

Start at: 2018-02-12 23:29:14

End at: 2018-02-12 23:29:44

Below is generated by plot.py at 2018-02-13 02:57:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 241.26 Mbit/s

95th percentile per-packet one-way delay: 217.887 ms

Loss rate: 2.41%

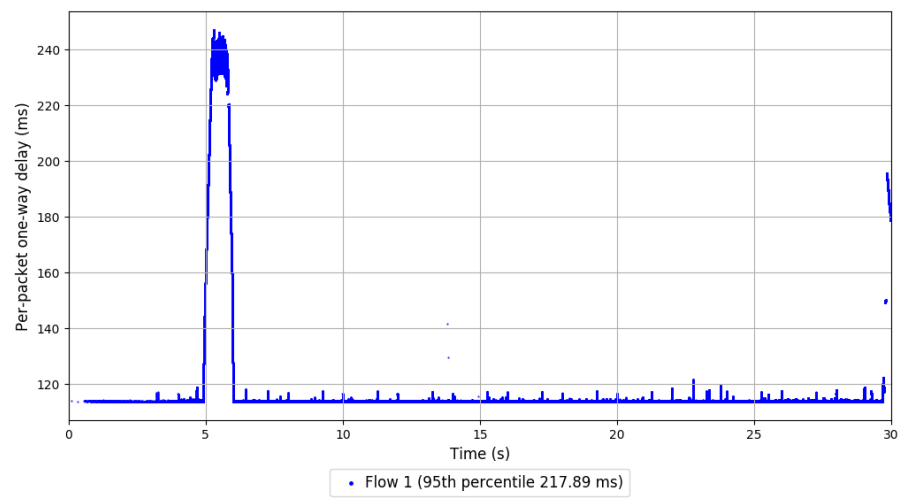
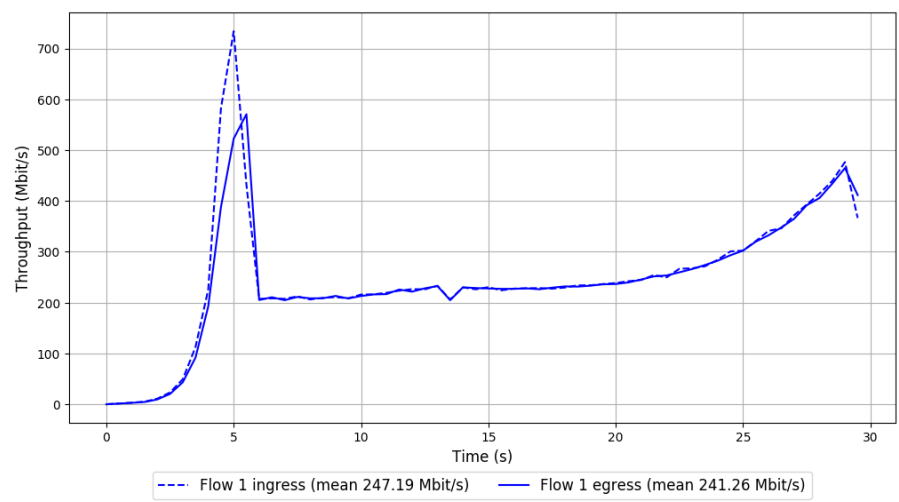
-- Flow 1:

Average throughput: 241.26 Mbit/s

95th percentile per-packet one-way delay: 217.887 ms

Loss rate: 2.41%

Run 7: Report of Vivace-loss — Data Link



Run 8: Statistics of Vivace-loss

Start at: 2018-02-12 23:44:36

End at: 2018-02-12 23:45:06

Below is generated by plot.py at 2018-02-13 02:58:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 403.60 Mbit/s

95th percentile per-packet one-way delay: 194.223 ms

Loss rate: 0.36%

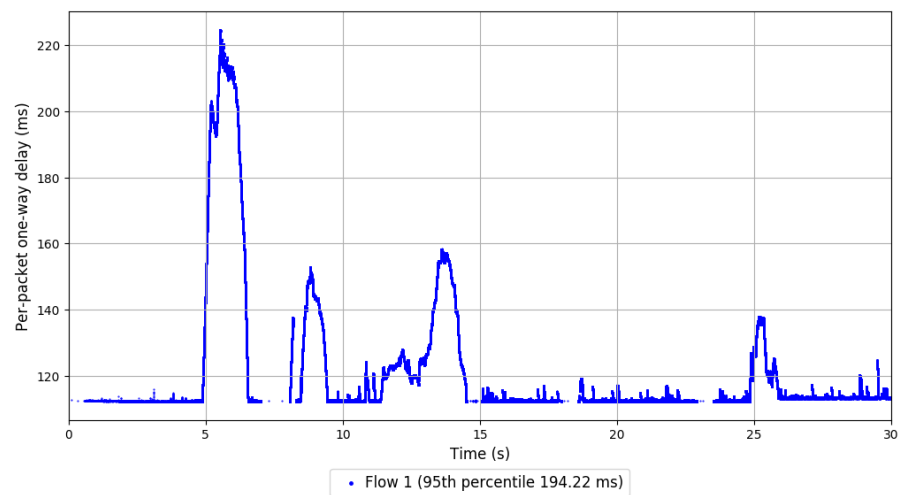
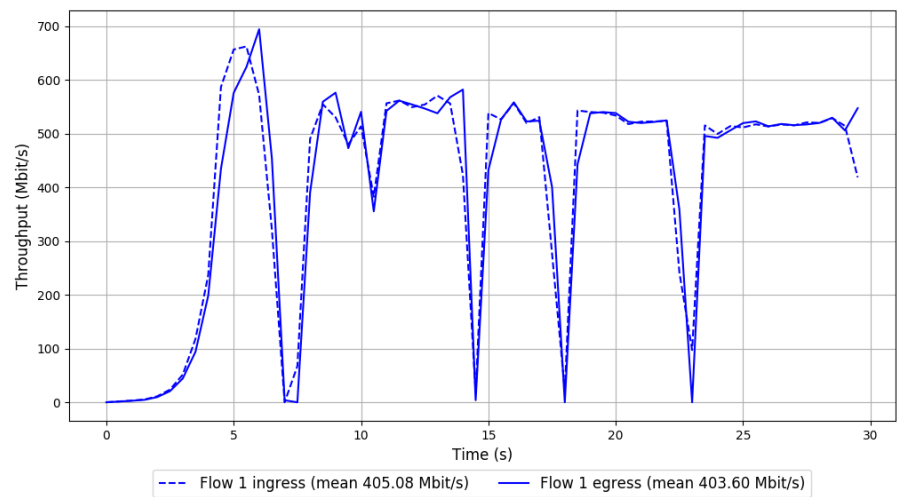
-- Flow 1:

Average throughput: 403.60 Mbit/s

95th percentile per-packet one-way delay: 194.223 ms

Loss rate: 0.36%

Run 8: Report of Vivace-loss — Data Link



Run 9: Statistics of Vivace-loss

Start at: 2018-02-13 00:00:15

End at: 2018-02-13 00:00:45

Below is generated by plot.py at 2018-02-13 02:58:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 287.17 Mbit/s

95th percentile per-packet one-way delay: 220.720 ms

Loss rate: 1.84%

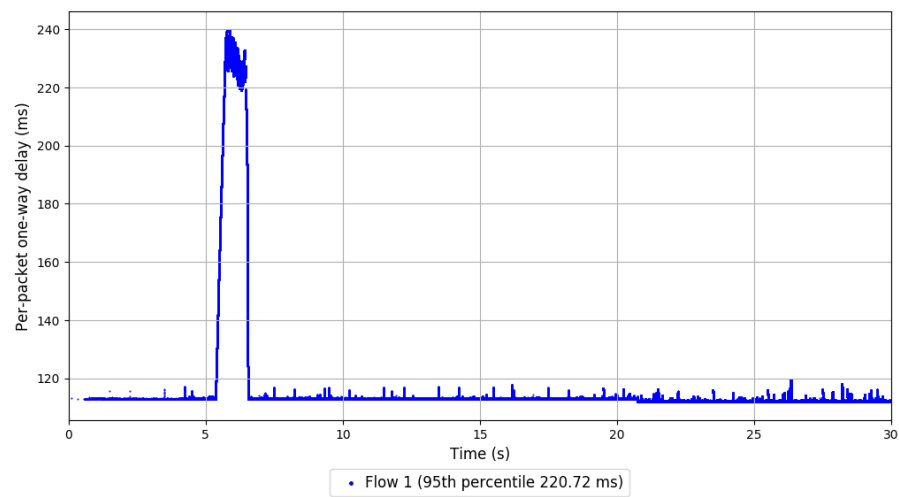
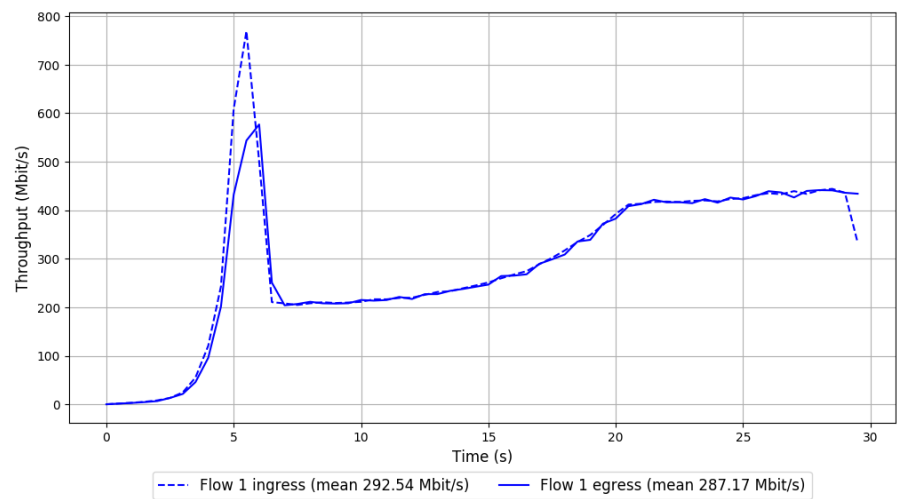
-- Flow 1:

Average throughput: 287.17 Mbit/s

95th percentile per-packet one-way delay: 220.720 ms

Loss rate: 1.84%

Run 9: Report of Vivace-loss — Data Link



Run 10: Statistics of Vivace-loss

Start at: 2018-02-13 00:15:35

End at: 2018-02-13 00:16:05

Below is generated by plot.py at 2018-02-13 02:58:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 292.51 Mbit/s

95th percentile per-packet one-way delay: 230.512 ms

Loss rate: 4.12%

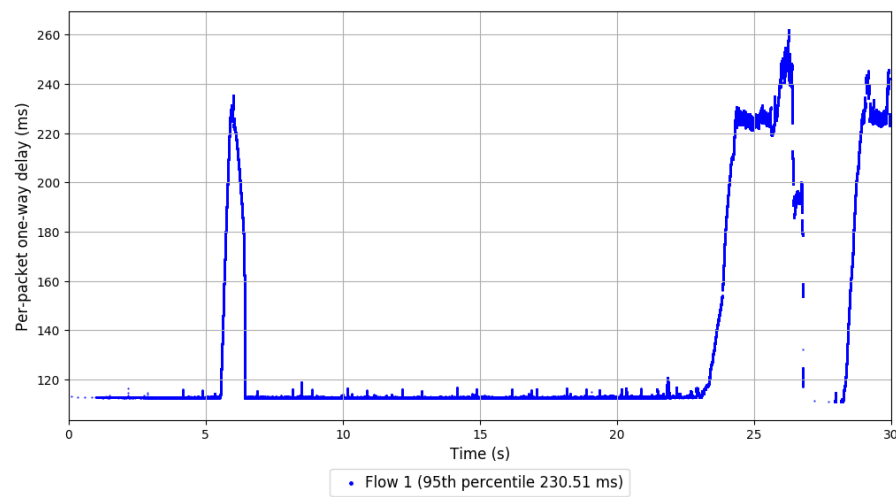
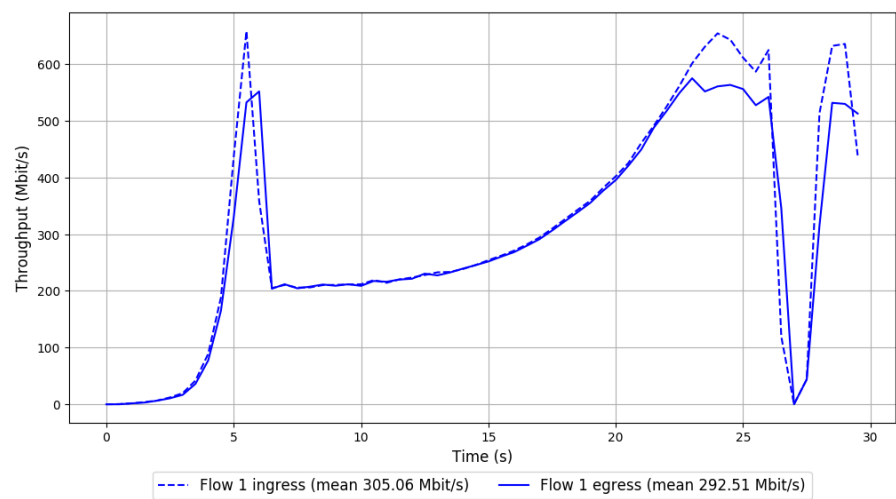
-- Flow 1:

Average throughput: 292.51 Mbit/s

95th percentile per-packet one-way delay: 230.512 ms

Loss rate: 4.12%

Run 10: Report of Vivace-loss — Data Link

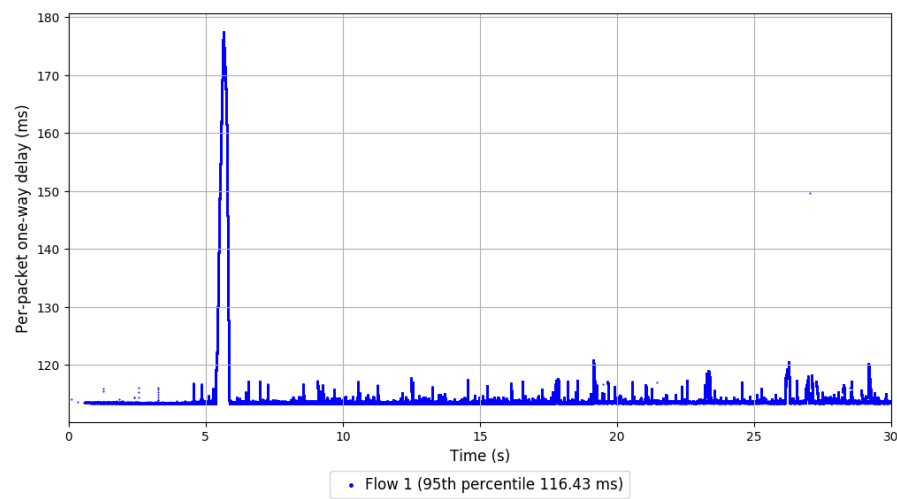
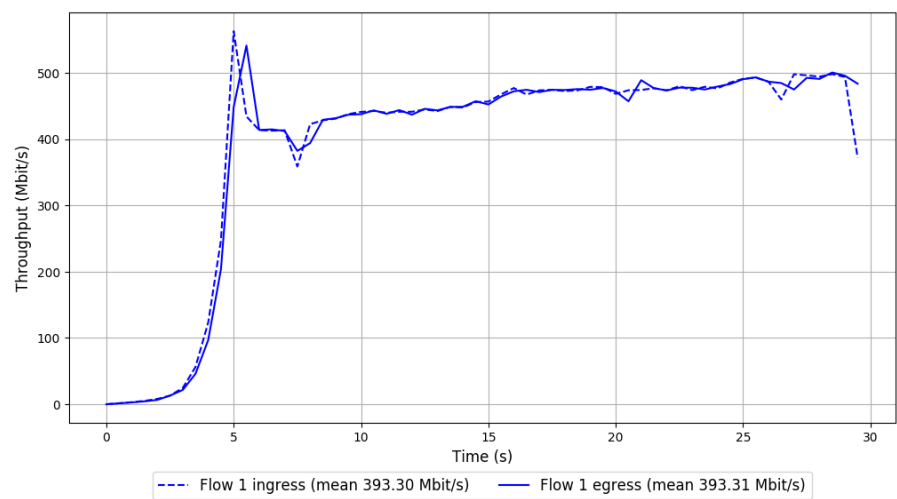


```
Run 1: Statistics of Vivace-LTE

Start at: 2018-02-12 22:06:02
End at: 2018-02-12 22:06:32

# Below is generated by plot.py at 2018-02-13 03:01:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 393.31 Mbit/s
95th percentile per-packet one-way delay: 116.426 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 393.31 Mbit/s
95th percentile per-packet one-way delay: 116.426 ms
Loss rate: 0.00%
```

Run 1: Report of Vivace-LTE — Data Link



Run 2: Statistics of Vivace-LTE

Start at: 2018-02-12 22:21:33

End at: 2018-02-12 22:22:03

Below is generated by plot.py at 2018-02-13 03:02:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 382.50 Mbit/s

95th percentile per-packet one-way delay: 171.083 ms

Loss rate: 0.77%

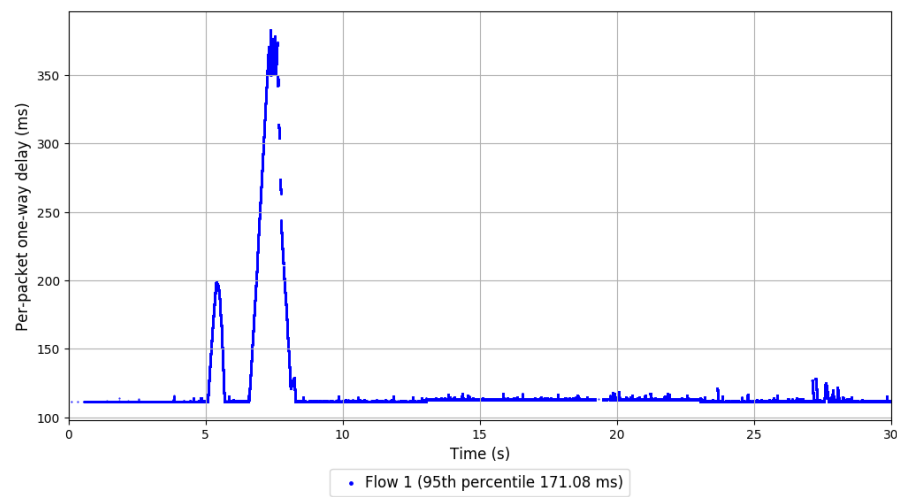
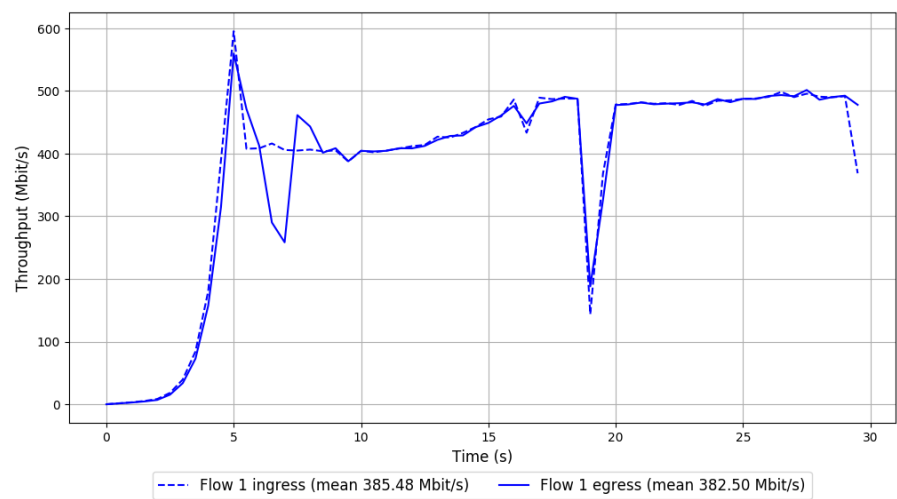
-- Flow 1:

Average throughput: 382.50 Mbit/s

95th percentile per-packet one-way delay: 171.083 ms

Loss rate: 0.77%

Run 2: Report of Vivace-LTE — Data Link



Run 3: Statistics of Vivace-LTE

Start at: 2018-02-12 22:37:03

End at: 2018-02-12 22:37:33

Below is generated by plot.py at 2018-02-13 03:03:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 396.84 Mbit/s

95th percentile per-packet one-way delay: 114.143 ms

Loss rate: 0.00%

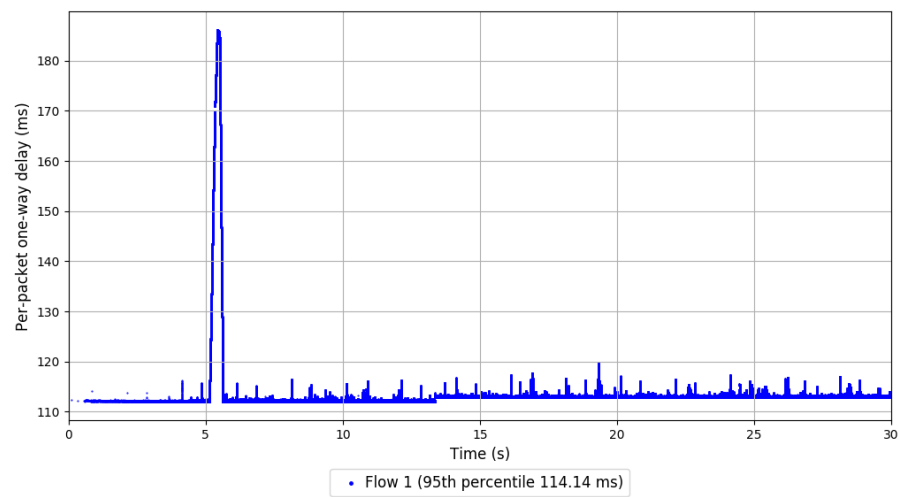
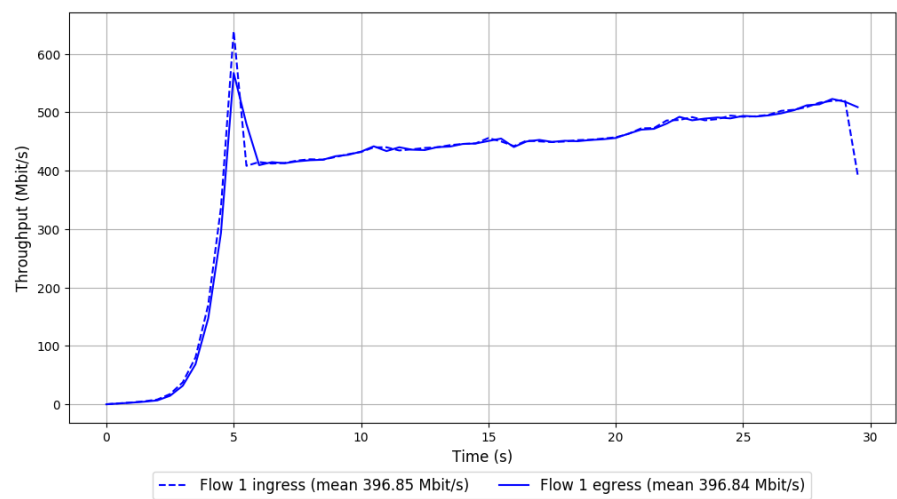
-- Flow 1:

Average throughput: 396.84 Mbit/s

95th percentile per-packet one-way delay: 114.143 ms

Loss rate: 0.00%

Run 3: Report of Vivace-LTE — Data Link



Run 4: Statistics of Vivace-LTE

Start at: 2018-02-12 22:52:27

End at: 2018-02-12 22:52:57

Below is generated by plot.py at 2018-02-13 03:04:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 424.74 Mbit/s

95th percentile per-packet one-way delay: 143.394 ms

Loss rate: 0.01%

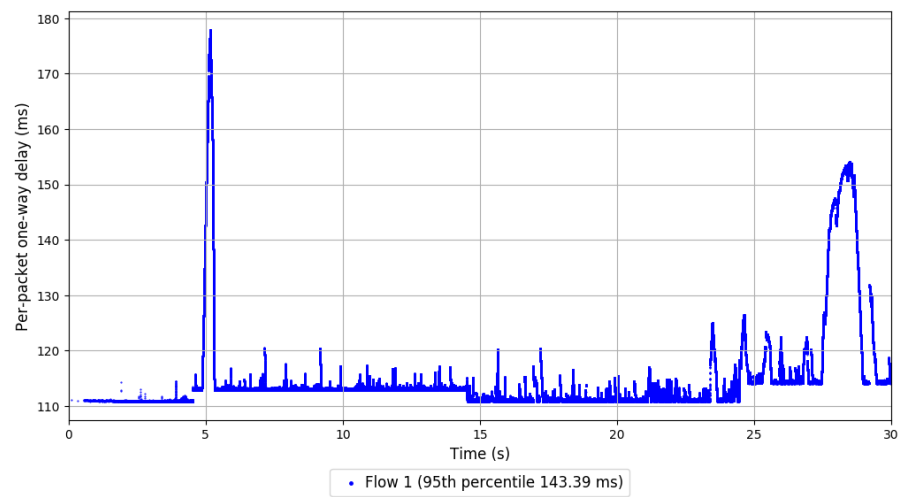
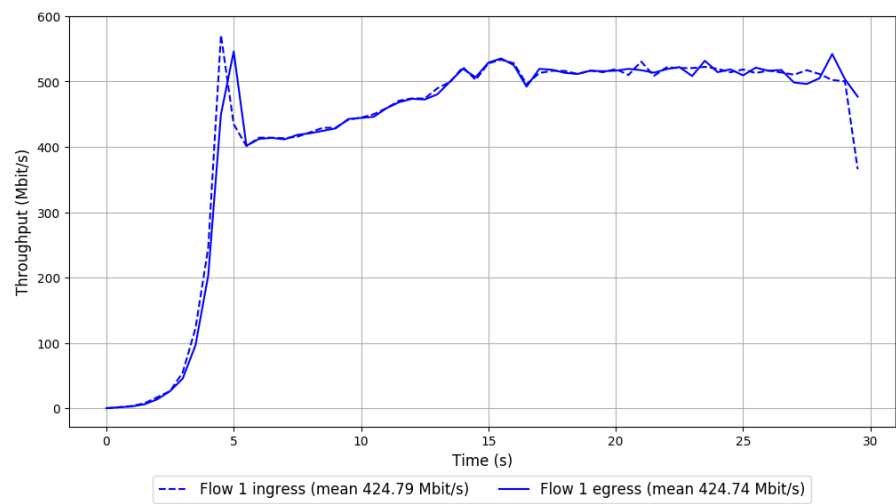
-- Flow 1:

Average throughput: 424.74 Mbit/s

95th percentile per-packet one-way delay: 143.394 ms

Loss rate: 0.01%

Run 4: Report of Vivace-LTE — Data Link



Run 5: Statistics of Vivace-LTE

Start at: 2018-02-12 23:08:01

End at: 2018-02-12 23:08:31

Below is generated by plot.py at 2018-02-13 03:04:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 397.13 Mbit/s

95th percentile per-packet one-way delay: 116.808 ms

Loss rate: 0.09%

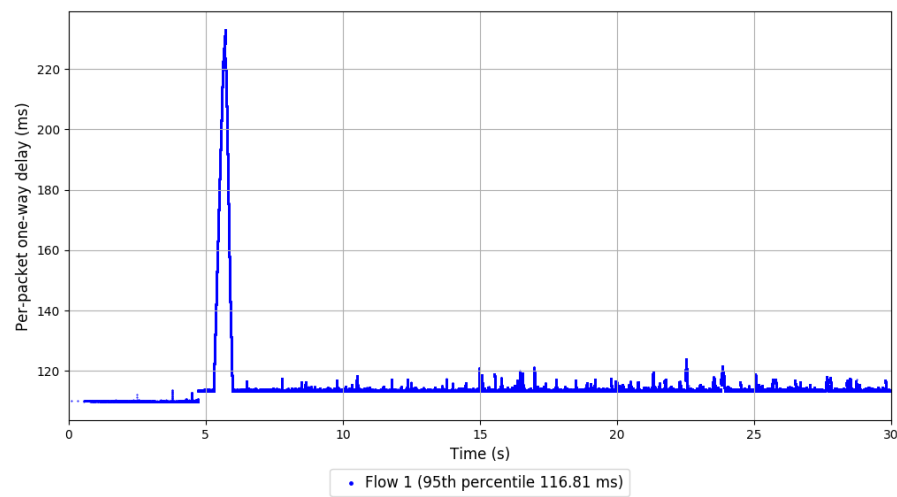
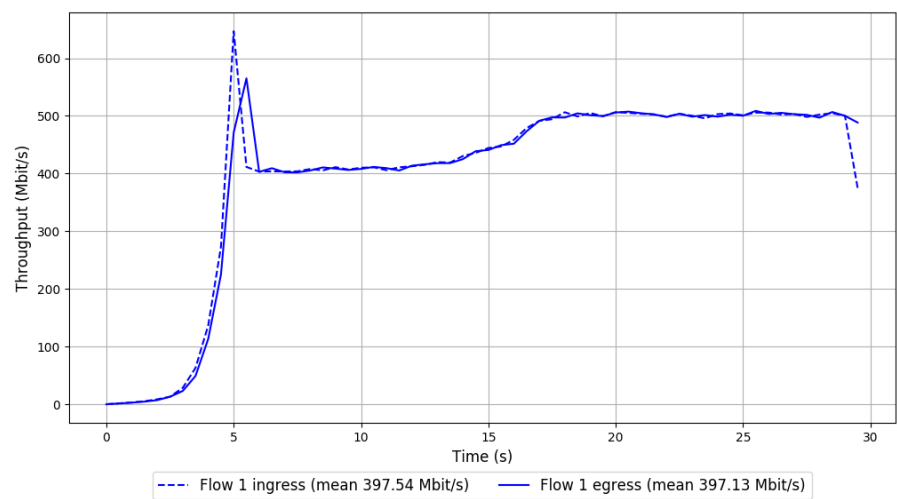
-- Flow 1:

Average throughput: 397.13 Mbit/s

95th percentile per-packet one-way delay: 116.808 ms

Loss rate: 0.09%

Run 5: Report of Vivace-LTE — Data Link



Run 6: Statistics of Vivace-LTE

Start at: 2018-02-12 23:23:35

End at: 2018-02-12 23:24:05

Below is generated by plot.py at 2018-02-13 03:04:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 380.18 Mbit/s

95th percentile per-packet one-way delay: 123.424 ms

Loss rate: 0.11%

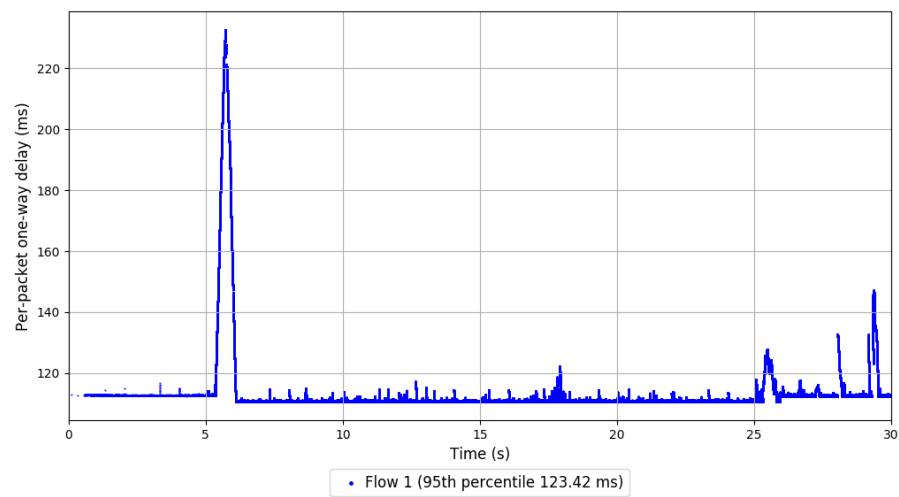
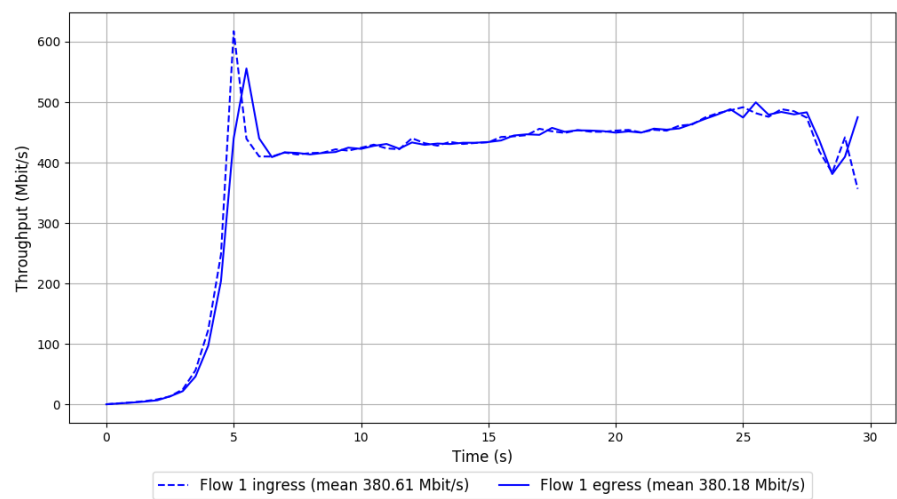
-- Flow 1:

Average throughput: 380.18 Mbit/s

95th percentile per-packet one-way delay: 123.424 ms

Loss rate: 0.11%

Run 6: Report of Vivace-LTE — Data Link



Run 7: Statistics of Vivace-LTE

Start at: 2018-02-12 23:38:55

End at: 2018-02-12 23:39:25

Below is generated by plot.py at 2018-02-13 03:04:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 387.43 Mbit/s

95th percentile per-packet one-way delay: 137.633 ms

Loss rate: 0.26%

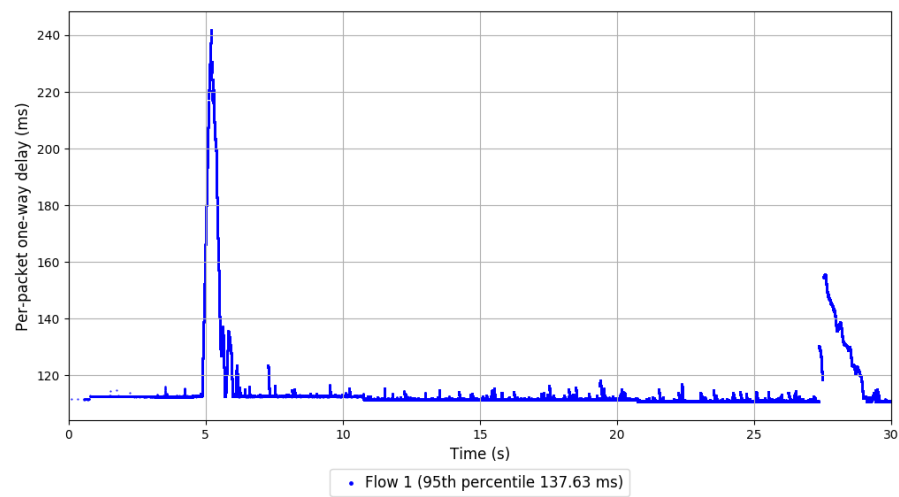
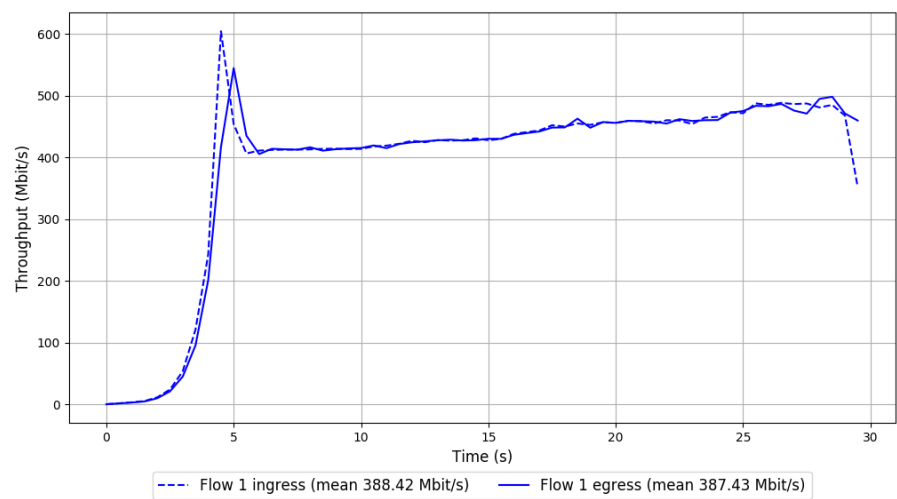
-- Flow 1:

Average throughput: 387.43 Mbit/s

95th percentile per-packet one-way delay: 137.633 ms

Loss rate: 0.26%

Run 7: Report of Vivace-LTE — Data Link



Run 8: Statistics of Vivace-LTE

Start at: 2018-02-12 23:54:37

End at: 2018-02-12 23:55:07

Below is generated by plot.py at 2018-02-13 03:05:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 378.68 Mbit/s

95th percentile per-packet one-way delay: 116.512 ms

Loss rate: 0.00%

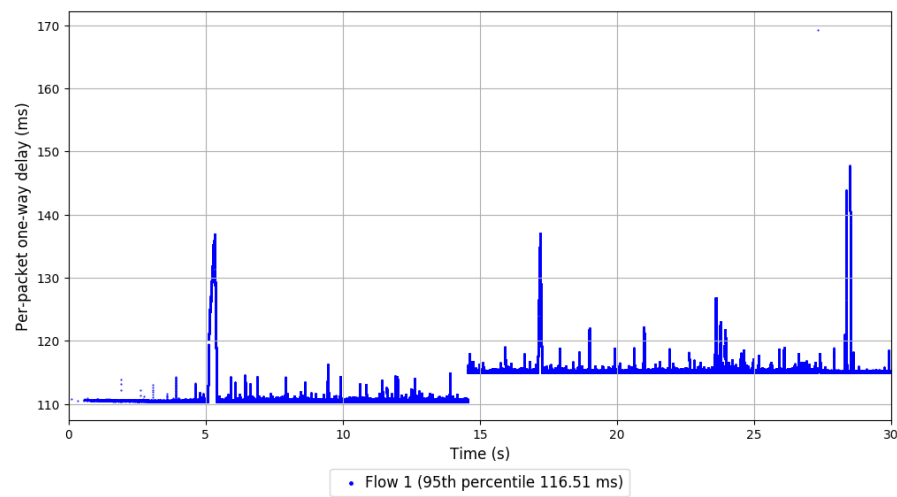
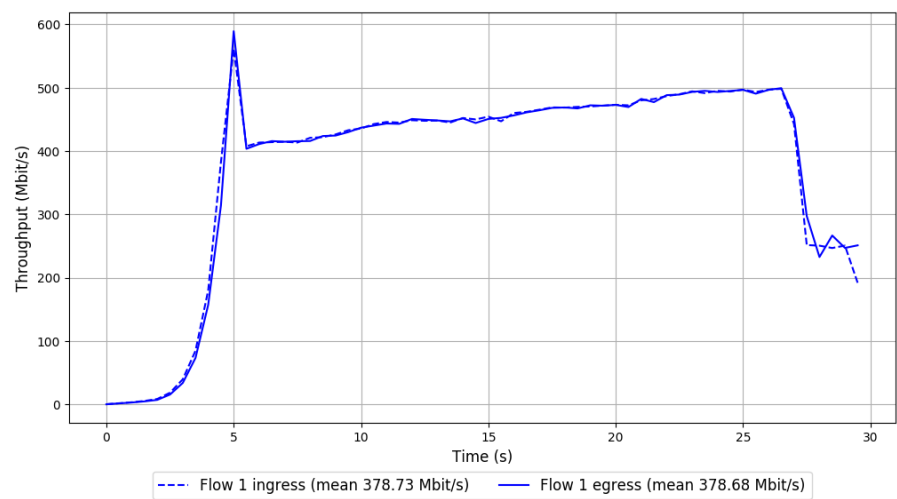
-- Flow 1:

Average throughput: 378.68 Mbit/s

95th percentile per-packet one-way delay: 116.512 ms

Loss rate: 0.00%

Run 8: Report of Vivace-LTE — Data Link



Run 9: Statistics of Vivace-LTE

Start at: 2018-02-13 00:09:53

End at: 2018-02-13 00:10:23

Below is generated by plot.py at 2018-02-13 03:05:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 388.40 Mbit/s

95th percentile per-packet one-way delay: 116.875 ms

Loss rate: 0.18%

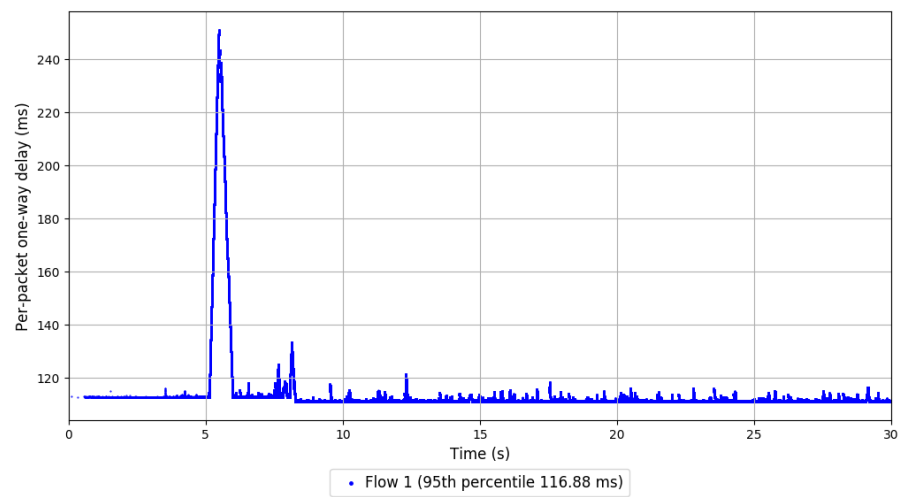
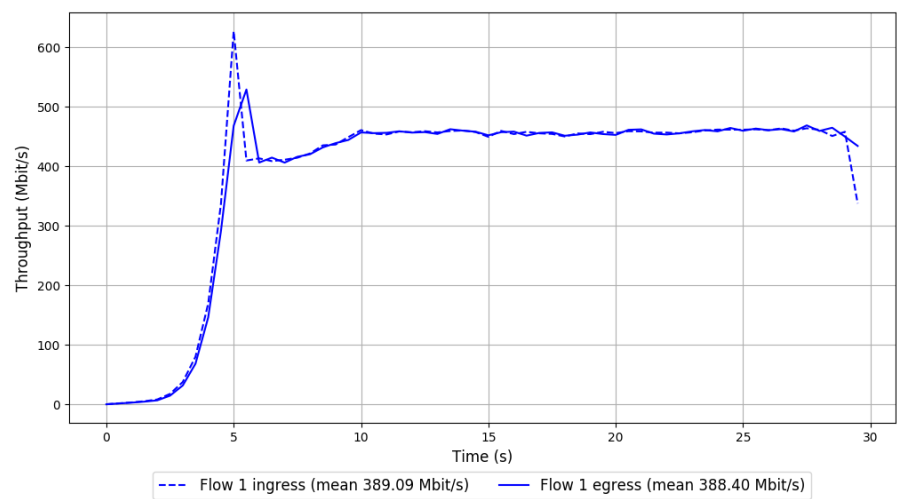
-- Flow 1:

Average throughput: 388.40 Mbit/s

95th percentile per-packet one-way delay: 116.875 ms

Loss rate: 0.18%

Run 9: Report of Vivace-LTE — Data Link



```
Run 10: Statistics of Vivace-LTE

Start at: 2018-02-13 00:25:32
End at: 2018-02-13 00:26:02

# Below is generated by plot.py at 2018-02-13 03:05:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 402.16 Mbit/s
95th percentile per-packet one-way delay: 121.530 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 402.16 Mbit/s
95th percentile per-packet one-way delay: 121.530 ms
Loss rate: 0.01%
```

Run 10: Report of Vivace-LTE — Data Link

