

Pantheon Report

Generated at 2017-11-16 01:08:16 (UTC).

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

Repeated the test of 14 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

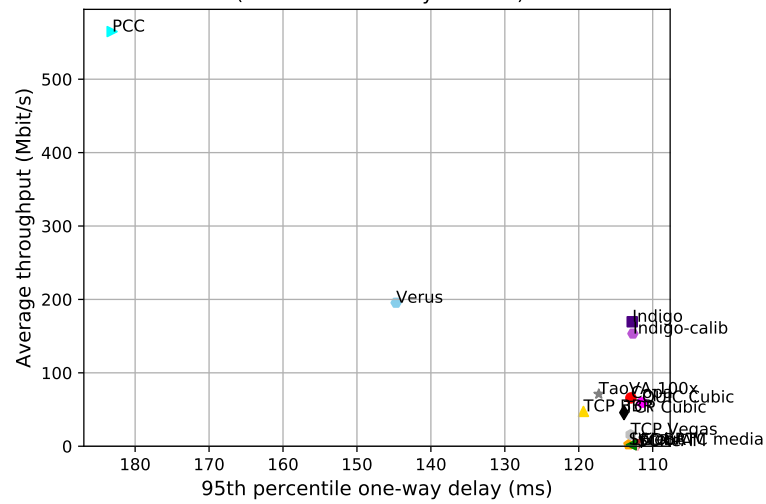
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

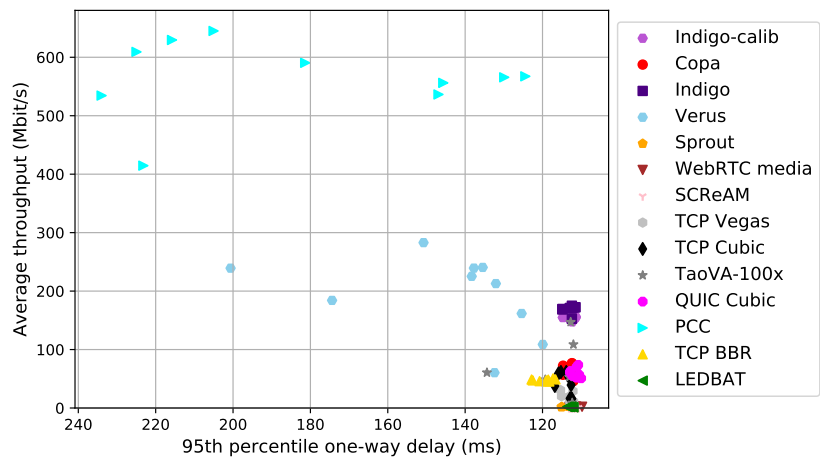
Git summary:

```
branch: indigos @ f54f2953f2a9765c9ffa988d13de5a9471790eb0
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/genericCC @ f7ca42f251bf49b432bb71de6d13fa903515c366
third_party/indigo @ b19f3730105f9aa95452552af924e3719b03cc55
third_party/indigo-cellular @ aee99e8eb842cb053f8c9a80e28cd256a930bbc2
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/indigo-no-cwnd @ 3e58442c04028a11d7b02456e137604633ba2d6c
third_party/indigo-no-delivery-rate @ 57caa40858b964906edff4876d5a7e5bfff666c5
third_party/indigo-no-queuing-delay @ 03455460fd1a8ffbdad86fab936fdca204b80db
third_party/indigo-no-send-rate @ b39dfa6b2c5f19cb7cd89626cb4f5bb81f9fecda
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ baf443516dea3eeddeccaf9b916cc313273ca4f4
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaaeb30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/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	47.45	119.37	0.13
TCP Cubic	10	45.85	113.88	0.11
LEDBAT	8	1.82	112.91	0.38
PCC	10	564.91	183.11	1.44
QUIC Cubic	9	59.60	111.45	0.00
SCReAM	8	0.20	112.05	0.00
WebRTC media	10	2.14	112.00	0.00
Sprout	10	2.26	113.24	0.84
TaoVA-100x	6	71.12	117.29	0.02
TCP Vegas	10	15.68	112.99	0.35
Verus	10	195.50	144.71	0.30
Copa	10	65.83	112.95	0.00
Indigo	10	169.56	112.77	0.00
Indigo-calib	10	153.47	112.68	0.05

Run 1: Statistics of TCP BBR

Start at: 2017-11-15 22:13:09

End at: 2017-11-15 22:13:39

Below is generated by plot.py at 2017-11-16 00:35:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 48.58 Mbit/s

95th percentile per-packet one-way delay: 118.511 ms

Loss rate: 0.03%

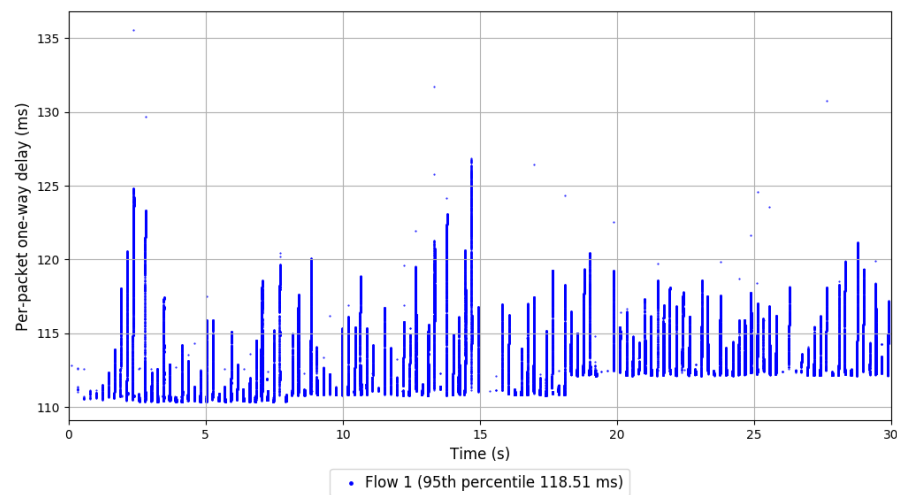
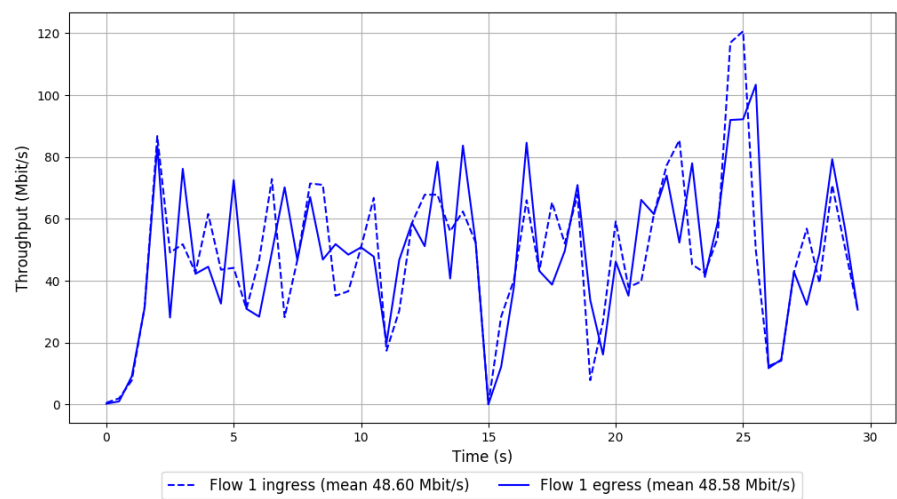
-- Flow 1:

Average throughput: 48.58 Mbit/s

95th percentile per-packet one-way delay: 118.511 ms

Loss rate: 0.03%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2017-11-15 22:23:56

End at: 2017-11-15 22:24:26

Below is generated by plot.py at 2017-11-16 00:35:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.68 Mbit/s

95th percentile per-packet one-way delay: 117.253 ms

Loss rate: 0.04%

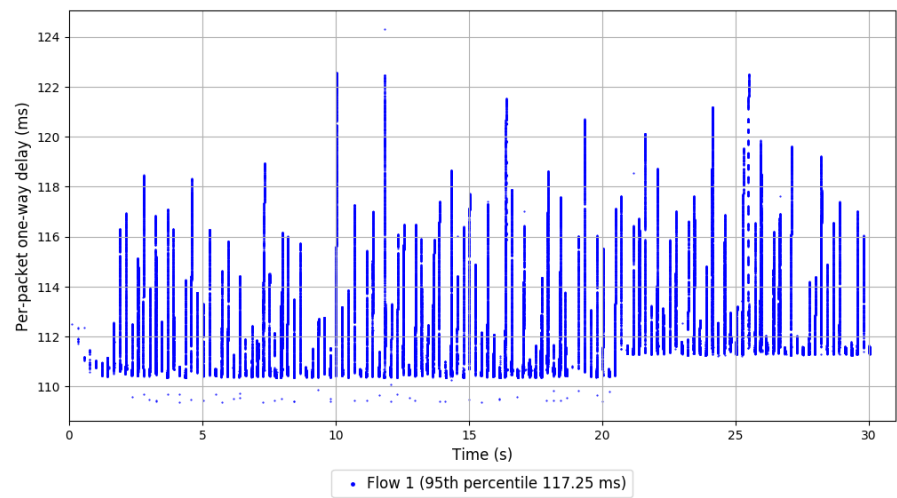
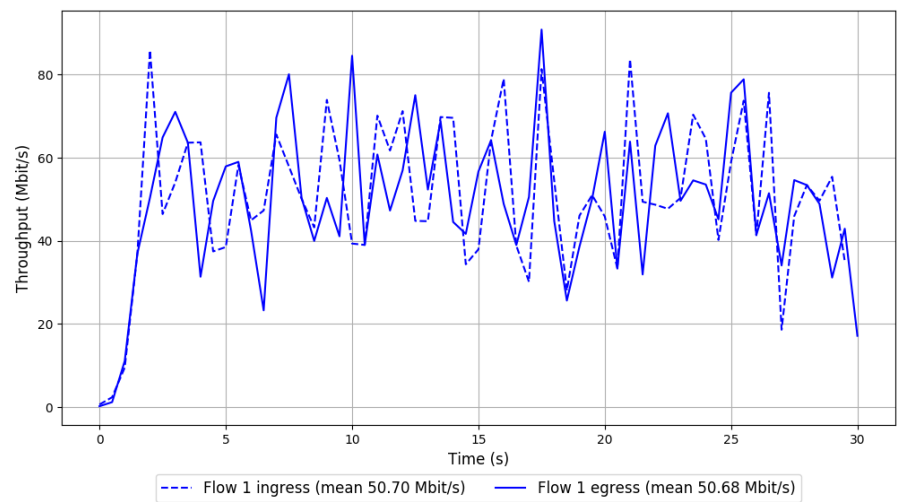
-- Flow 1:

Average throughput: 50.68 Mbit/s

95th percentile per-packet one-way delay: 117.253 ms

Loss rate: 0.04%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2017-11-15 22:35:07

End at: 2017-11-15 22:35:37

Below is generated by plot.py at 2017-11-16 00:35:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 45.42 Mbit/s

95th percentile per-packet one-way delay: 118.233 ms

Loss rate: 0.71%

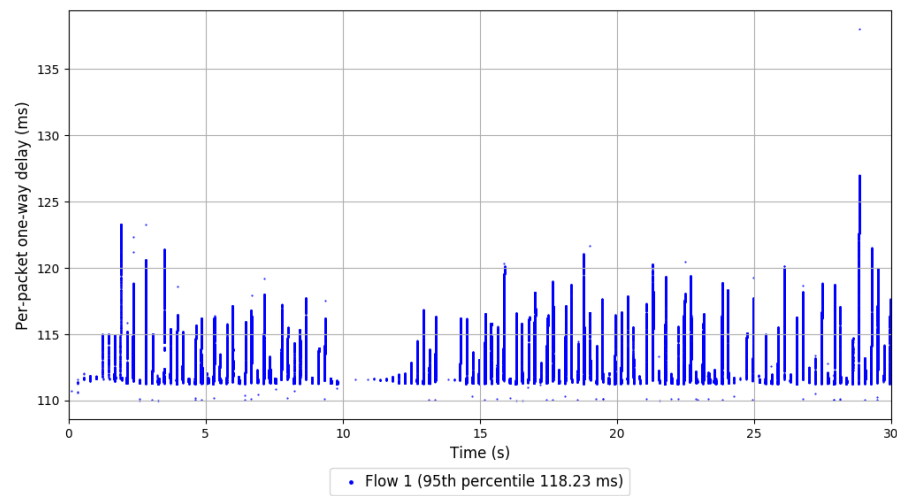
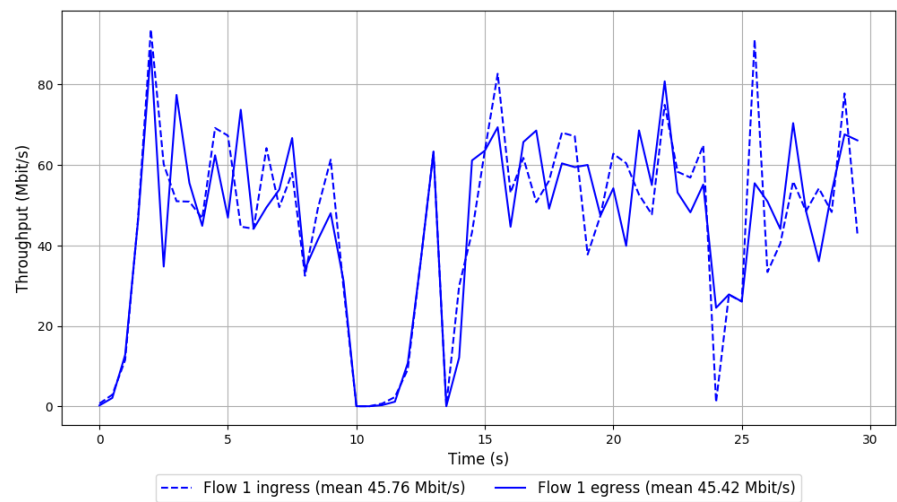
-- Flow 1:

Average throughput: 45.42 Mbit/s

95th percentile per-packet one-way delay: 118.233 ms

Loss rate: 0.71%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2017-11-15 22:46:04

End at: 2017-11-15 22:46:34

Below is generated by plot.py at 2017-11-16 00:35:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 47.21 Mbit/s

95th percentile per-packet one-way delay: 119.073 ms

Loss rate: 0.01%

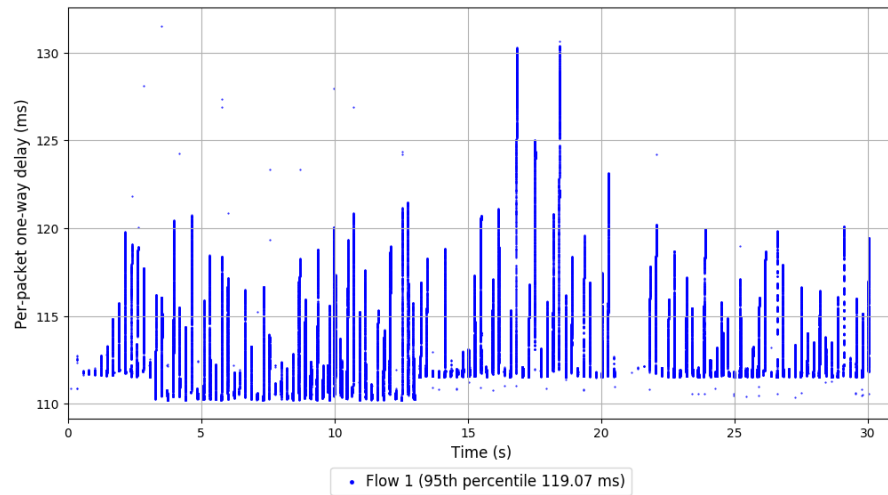
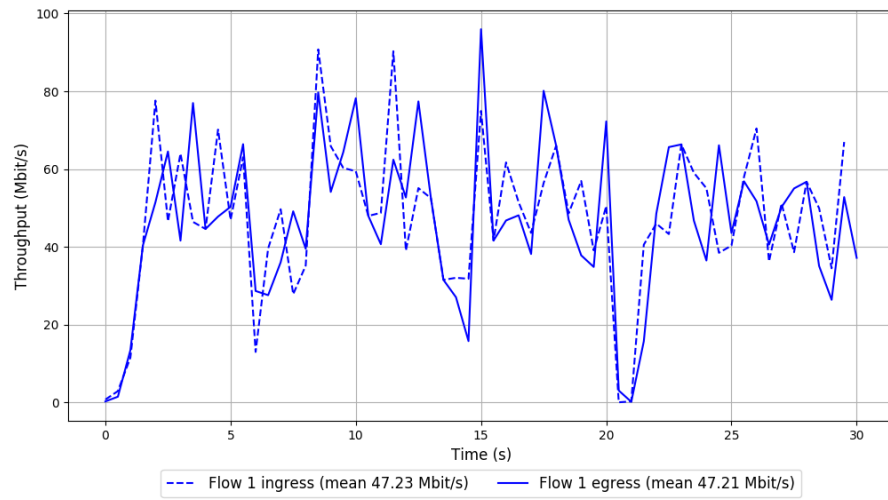
-- Flow 1:

Average throughput: 47.21 Mbit/s

95th percentile per-packet one-way delay: 119.073 ms

Loss rate: 0.01%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2017-11-15 22:57:12

End at: 2017-11-15 22:57:42

Below is generated by plot.py at 2017-11-16 00:35:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 48.75 Mbit/s

95th percentile per-packet one-way delay: 122.825 ms

Loss rate: 0.05%

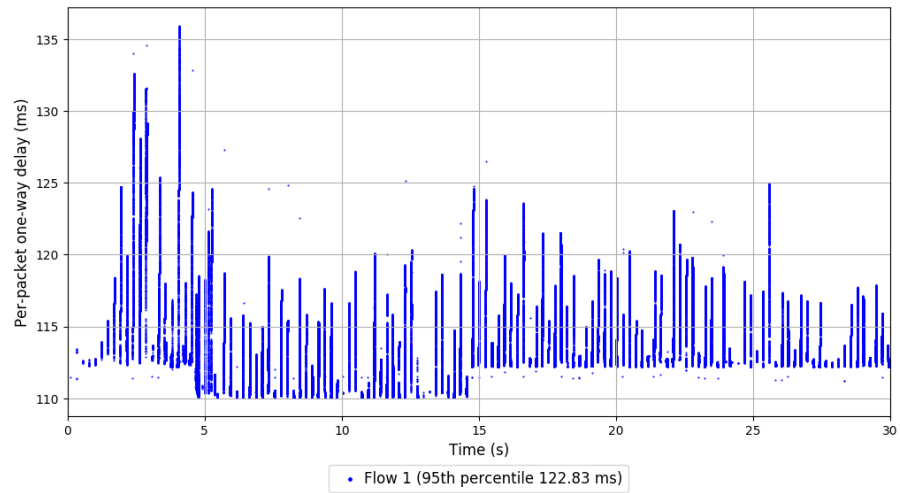
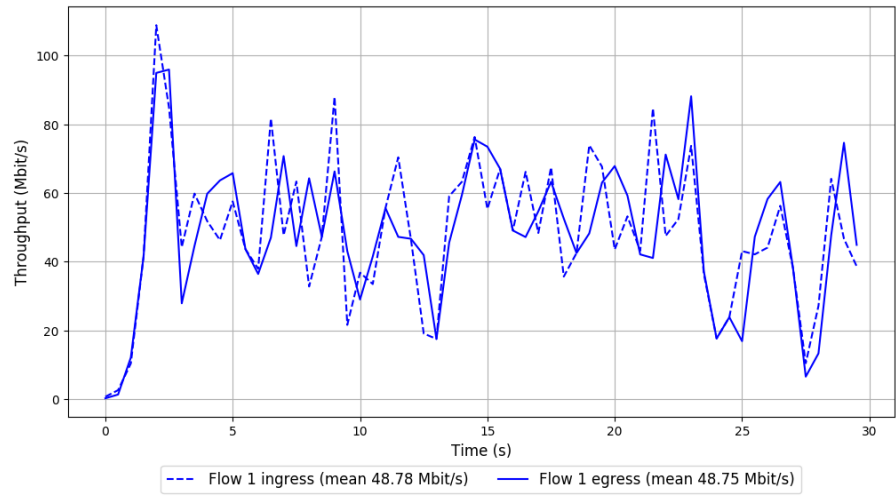
-- Flow 1:

Average throughput: 48.75 Mbit/s

95th percentile per-packet one-way delay: 122.825 ms

Loss rate: 0.05%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2017-11-15 23:08:12

End at: 2017-11-15 23:08:42

Below is generated by plot.py at 2017-11-16 00:35:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 45.88 Mbit/s

95th percentile per-packet one-way delay: 119.102 ms

Loss rate: 0.06%

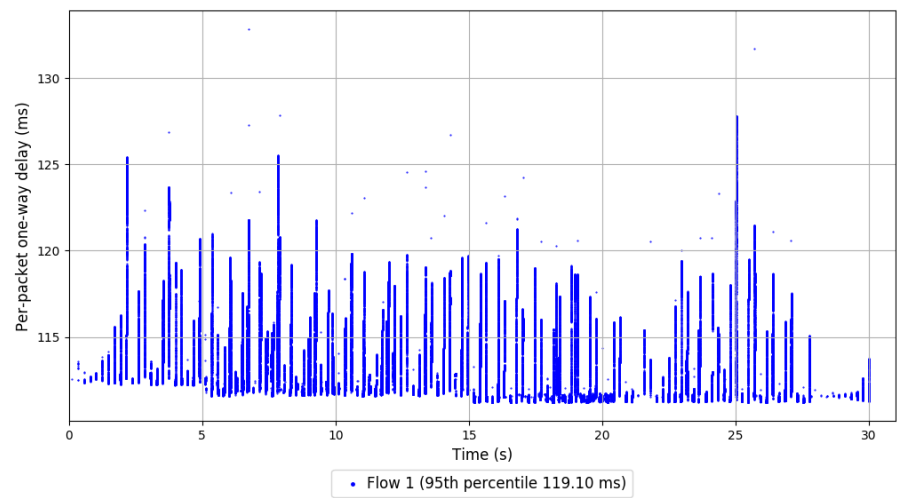
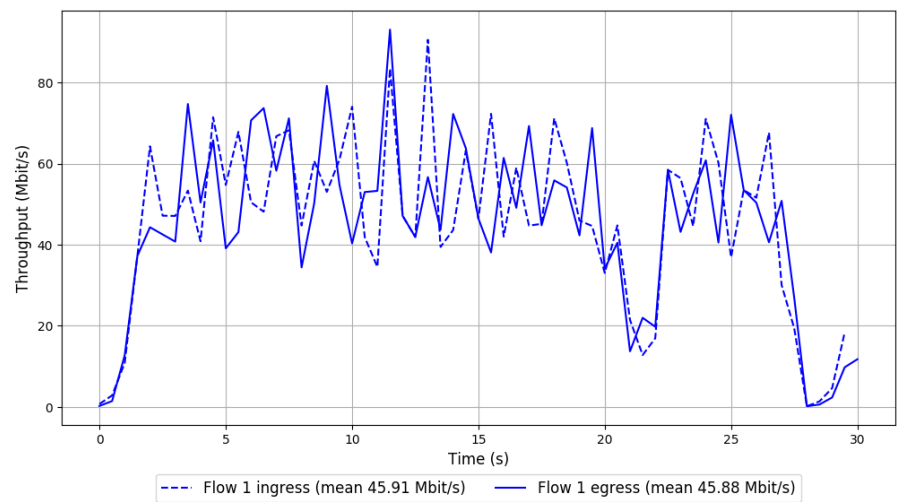
-- Flow 1:

Average throughput: 45.88 Mbit/s

95th percentile per-packet one-way delay: 119.102 ms

Loss rate: 0.06%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2017-11-15 23:19:17

End at: 2017-11-15 23:19:47

Below is generated by plot.py at 2017-11-16 00:35:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 45.92 Mbit/s

95th percentile per-packet one-way delay: 120.752 ms

Loss rate: 0.04%

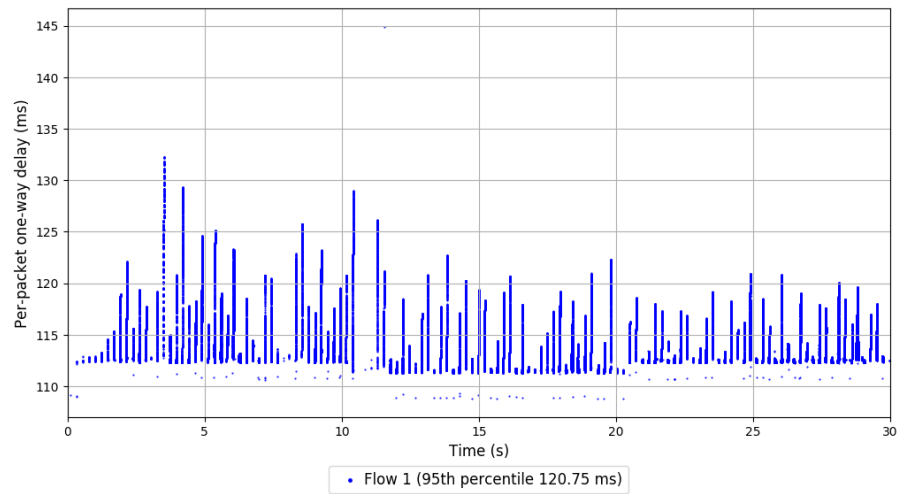
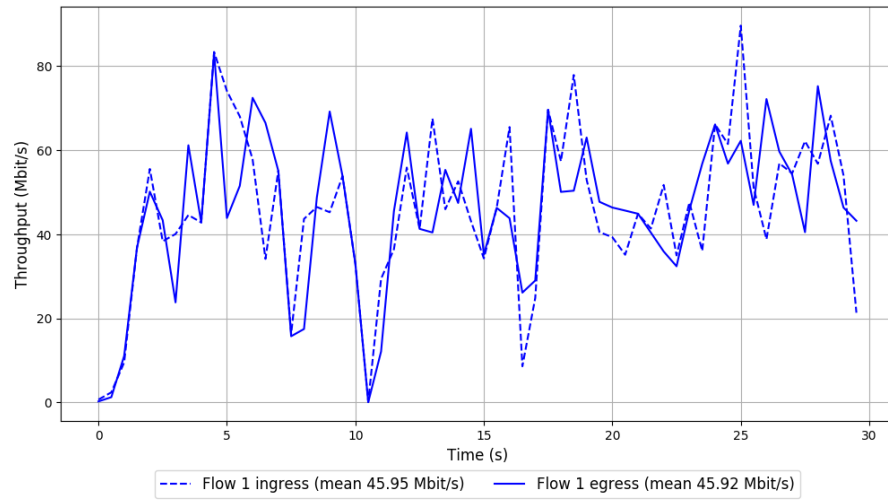
-- Flow 1:

Average throughput: 45.92 Mbit/s

95th percentile per-packet one-way delay: 120.752 ms

Loss rate: 0.04%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2017-11-15 23:30:15

End at: 2017-11-15 23:30:45

Below is generated by plot.py at 2017-11-16 00:35:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 47.27 Mbit/s

95th percentile per-packet one-way delay: 122.519 ms

Loss rate: 0.32%

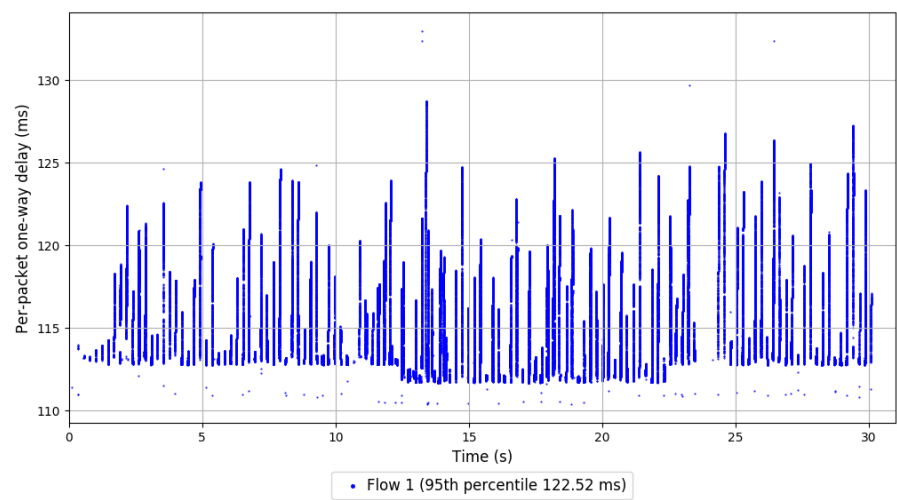
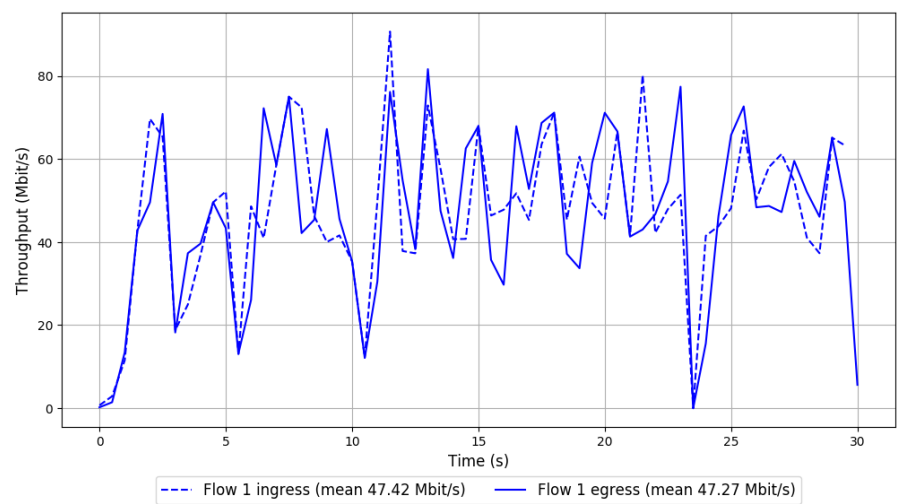
-- Flow 1:

Average throughput: 47.27 Mbit/s

95th percentile per-packet one-way delay: 122.519 ms

Loss rate: 0.32%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2017-11-15 23:41:18

End at: 2017-11-15 23:41:48

Below is generated by plot.py at 2017-11-16 00:36:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 45.74 Mbit/s

95th percentile per-packet one-way delay: 118.764 ms

Loss rate: 0.04%

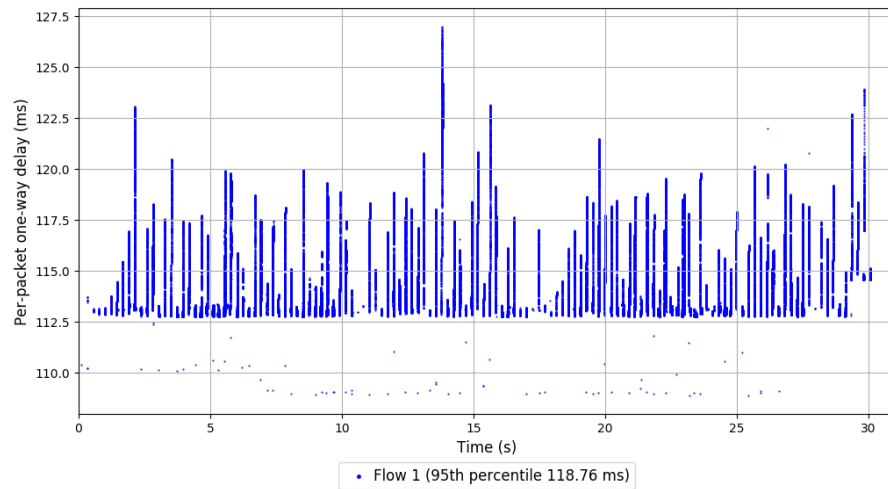
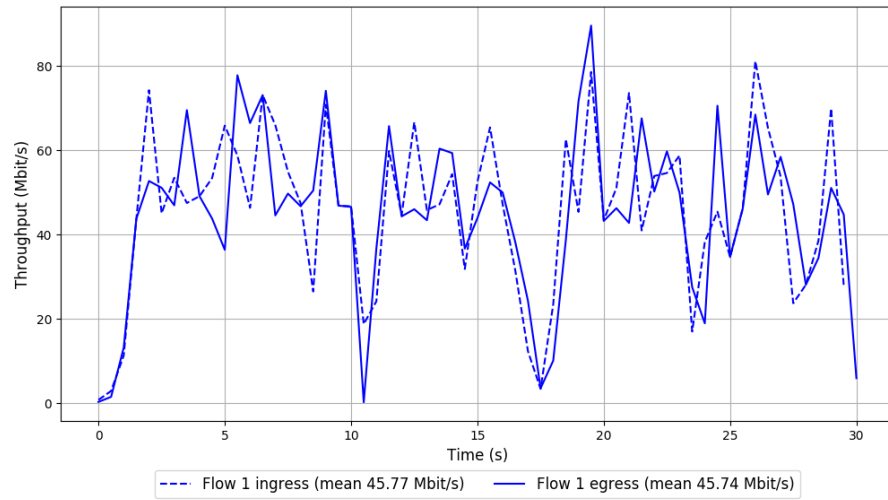
-- Flow 1:

Average throughput: 45.74 Mbit/s

95th percentile per-packet one-way delay: 118.764 ms

Loss rate: 0.04%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2017-11-15 23:52:28

End at: 2017-11-15 23:52:58

Below is generated by plot.py at 2017-11-16 00:36:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 49.01 Mbit/s

95th percentile per-packet one-way delay: 116.641 ms

Loss rate: 0.02%

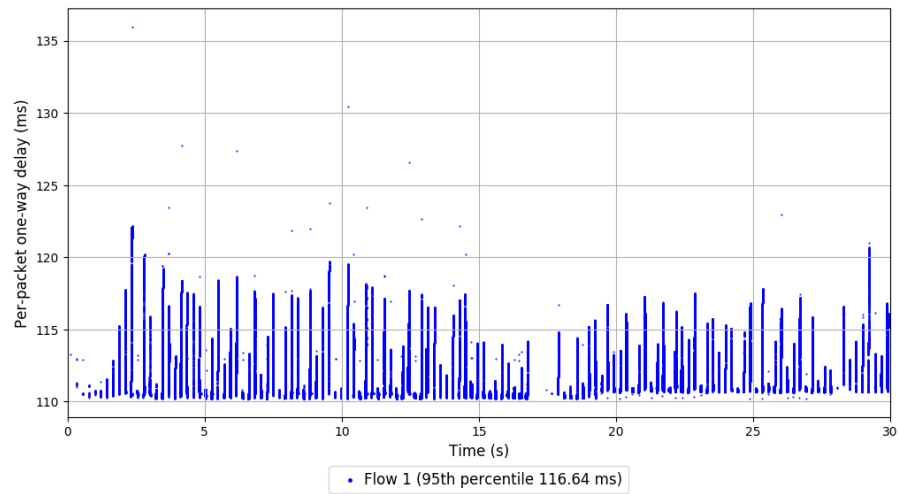
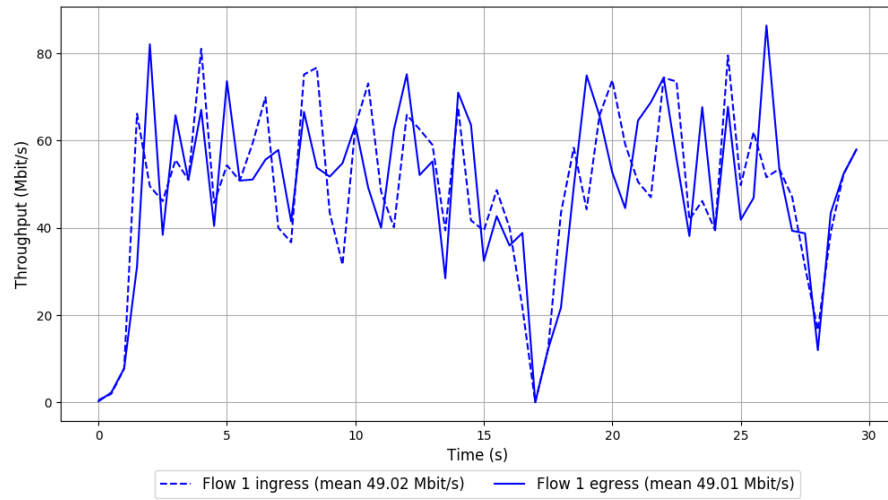
-- Flow 1:

Average throughput: 49.01 Mbit/s

95th percentile per-packet one-way delay: 116.641 ms

Loss rate: 0.02%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2017-11-15 22:14:35

End at: 2017-11-15 22:15:05

Below is generated by plot.py at 2017-11-16 00:36:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 51.21 Mbit/s

95th percentile per-packet one-way delay: 113.002 ms

Loss rate: 0.61%

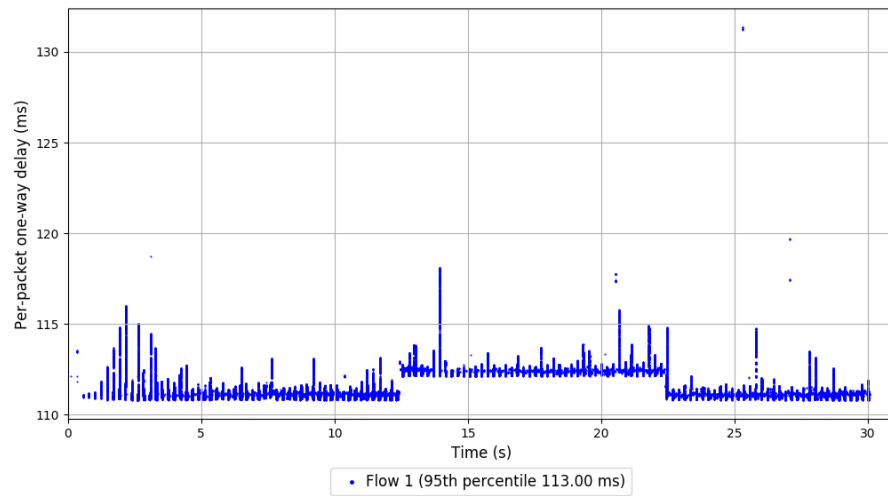
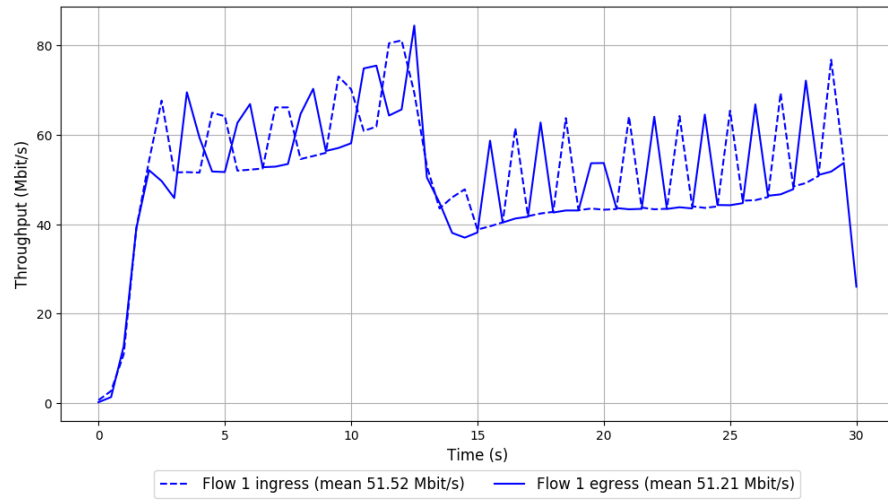
-- Flow 1:

Average throughput: 51.21 Mbit/s

95th percentile per-packet one-way delay: 113.002 ms

Loss rate: 0.61%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2017-11-15 22:25:22

End at: 2017-11-15 22:25:52

Below is generated by plot.py at 2017-11-16 00:36:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 56.40 Mbit/s

95th percentile per-packet one-way delay: 113.507 ms

Loss rate: 0.00%

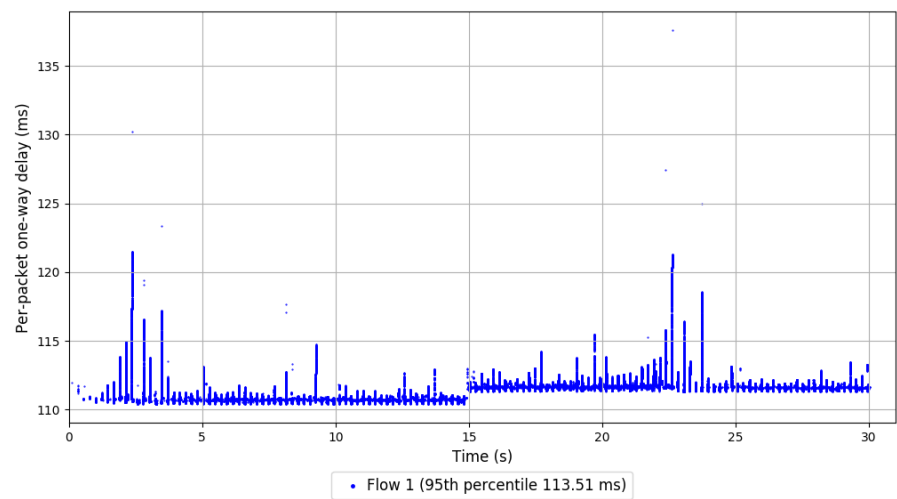
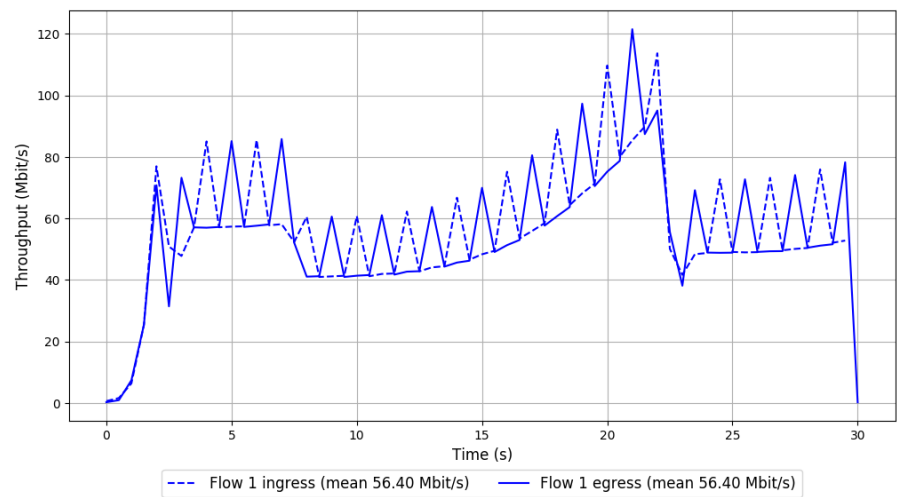
-- Flow 1:

Average throughput: 56.40 Mbit/s

95th percentile per-packet one-way delay: 113.507 ms

Loss rate: 0.00%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2017-11-15 22:36:32

End at: 2017-11-15 22:37:02

Below is generated by plot.py at 2017-11-16 00:36:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 39.29 Mbit/s

95th percentile per-packet one-way delay: 112.612 ms

Loss rate: 0.27%

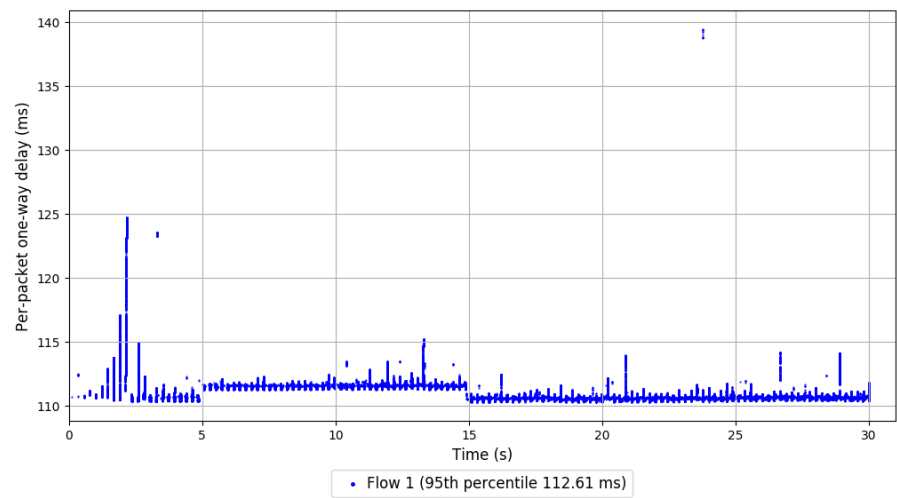
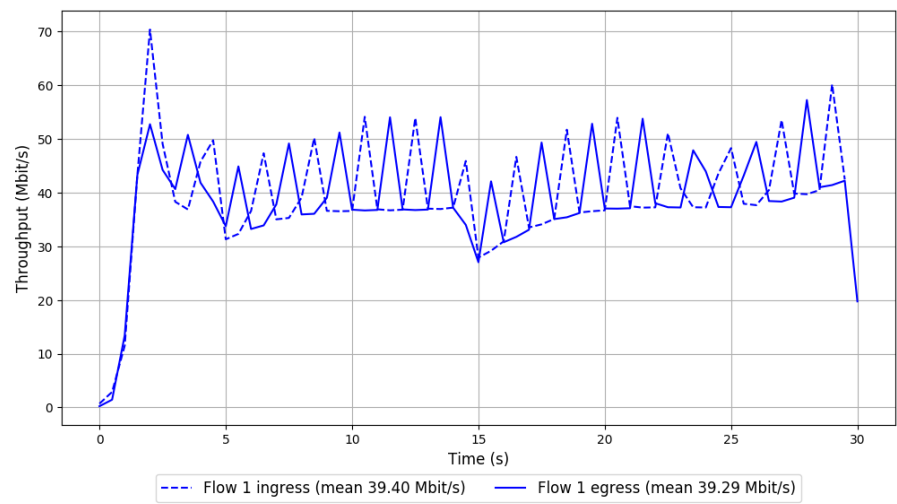
-- Flow 1:

Average throughput: 39.29 Mbit/s

95th percentile per-packet one-way delay: 112.612 ms

Loss rate: 0.27%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2017-11-15 22:47:30

End at: 2017-11-15 22:48:00

Below is generated by plot.py at 2017-11-16 00:36:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 15.85 Mbit/s

95th percentile per-packet one-way delay: 112.402 ms

Loss rate: 0.03%

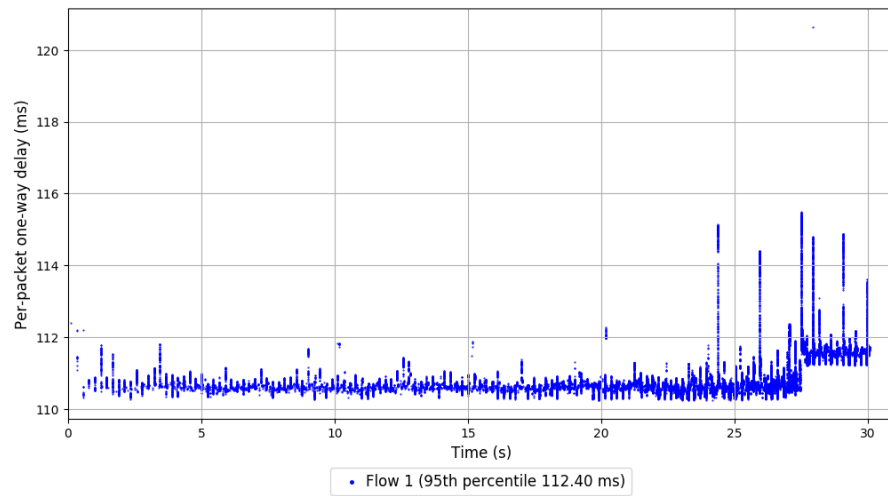
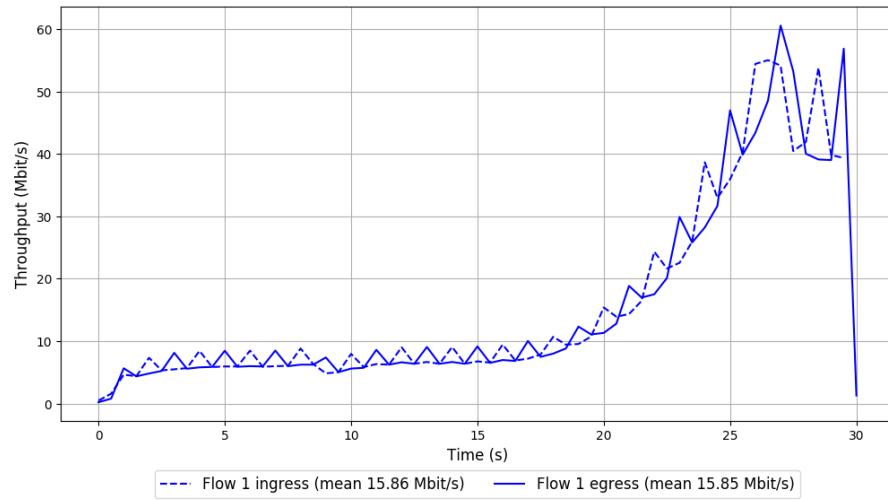
-- Flow 1:

Average throughput: 15.85 Mbit/s

95th percentile per-packet one-way delay: 112.402 ms

Loss rate: 0.03%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2017-11-15 22:58:38

End at: 2017-11-15 22:59:08

Below is generated by plot.py at 2017-11-16 00:36:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 16.42 Mbit/s

95th percentile per-packet one-way delay: 112.877 ms

Loss rate: 0.11%

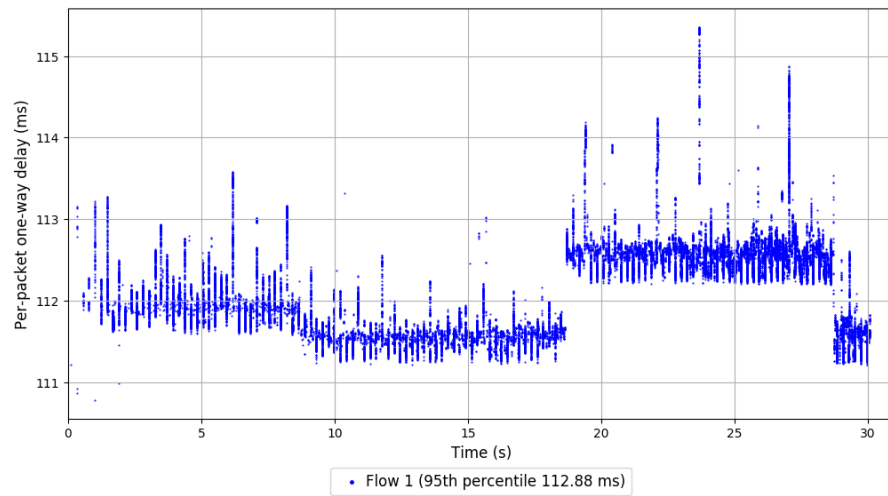
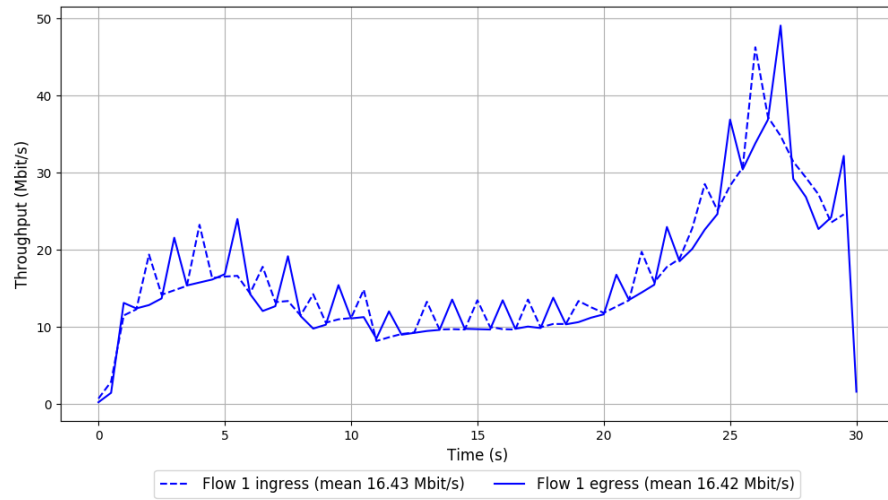
-- Flow 1:

Average throughput: 16.42 Mbit/s

95th percentile per-packet one-way delay: 112.877 ms

Loss rate: 0.11%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2017-11-15 23:09:38

End at: 2017-11-15 23:10:08

Below is generated by plot.py at 2017-11-16 00:37:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 61.55 Mbit/s

95th percentile per-packet one-way delay: 113.863 ms

Loss rate: 0.01%

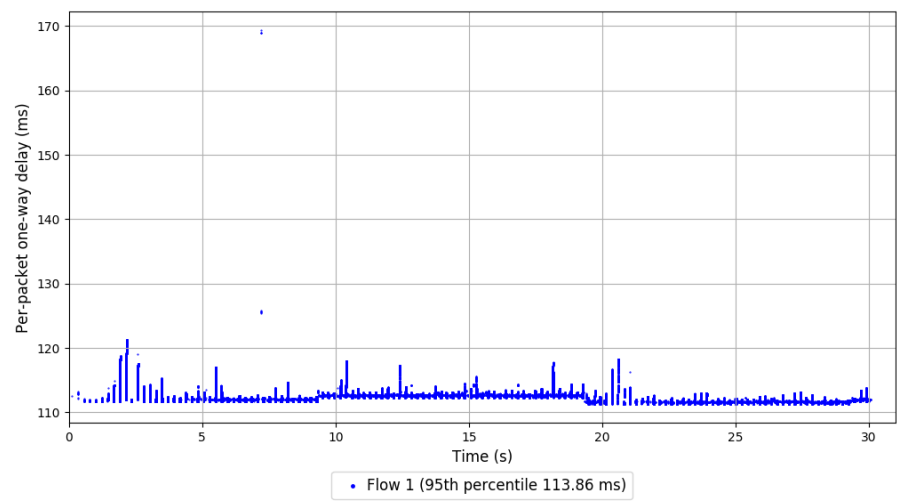
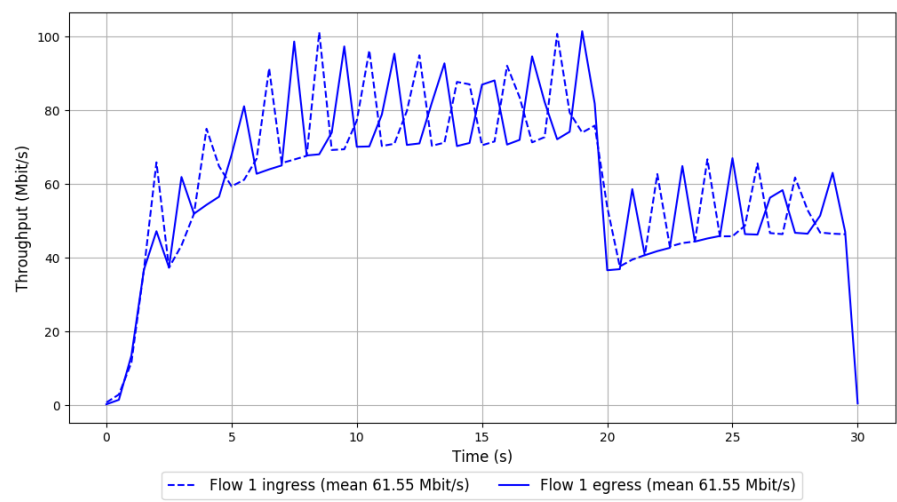
-- Flow 1:

Average throughput: 61.55 Mbit/s

95th percentile per-packet one-way delay: 113.863 ms

Loss rate: 0.01%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2017-11-15 23:20:42

End at: 2017-11-15 23:21:12

Below is generated by plot.py at 2017-11-16 00:37:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 59.43 Mbit/s

95th percentile per-packet one-way delay: 112.610 ms

Loss rate: 0.01%

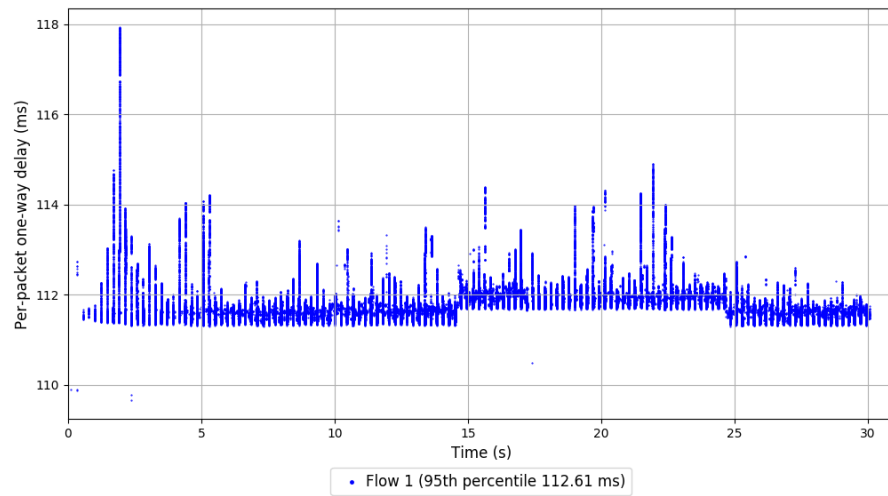
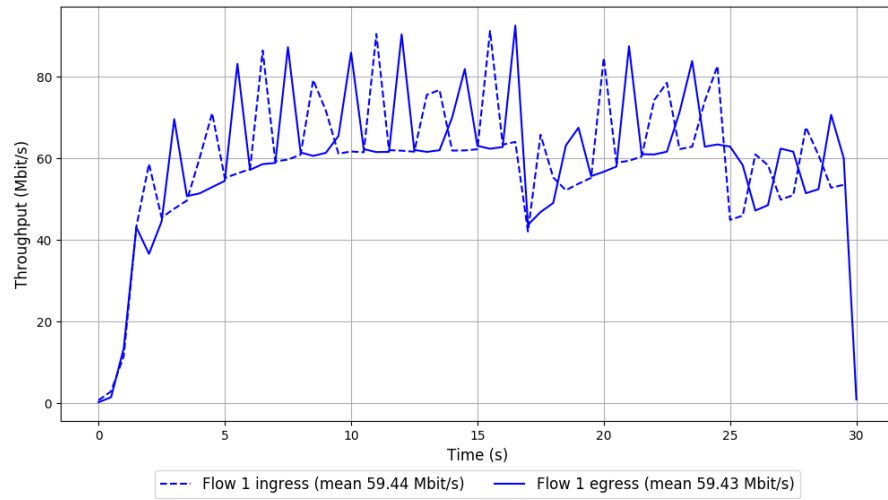
-- Flow 1:

Average throughput: 59.43 Mbit/s

95th percentile per-packet one-way delay: 112.610 ms

Loss rate: 0.01%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2017-11-15 23:31:40

End at: 2017-11-15 23:32:10

Below is generated by plot.py at 2017-11-16 00:37:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 37.72 Mbit/s

95th percentile per-packet one-way delay: 116.810 ms

Loss rate: 0.02%

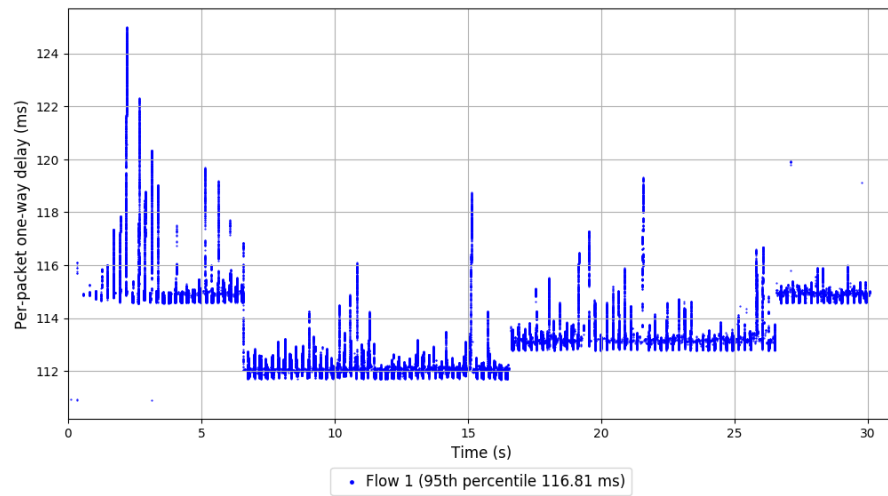
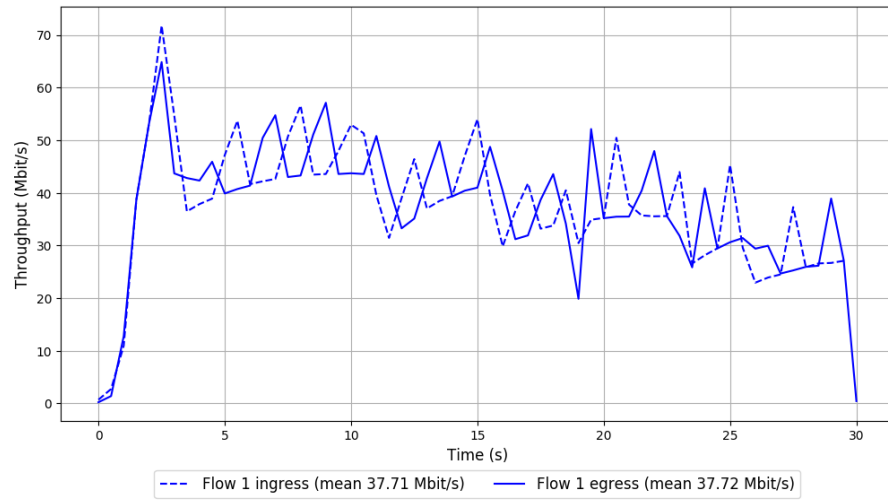
-- Flow 1:

Average throughput: 37.72 Mbit/s

95th percentile per-packet one-way delay: 116.810 ms

Loss rate: 0.02%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2017-11-15 23:42:44

End at: 2017-11-15 23:43:14

Below is generated by plot.py at 2017-11-16 00:37:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 59.08 Mbit/s

95th percentile per-packet one-way delay: 115.871 ms

Loss rate: 0.01%

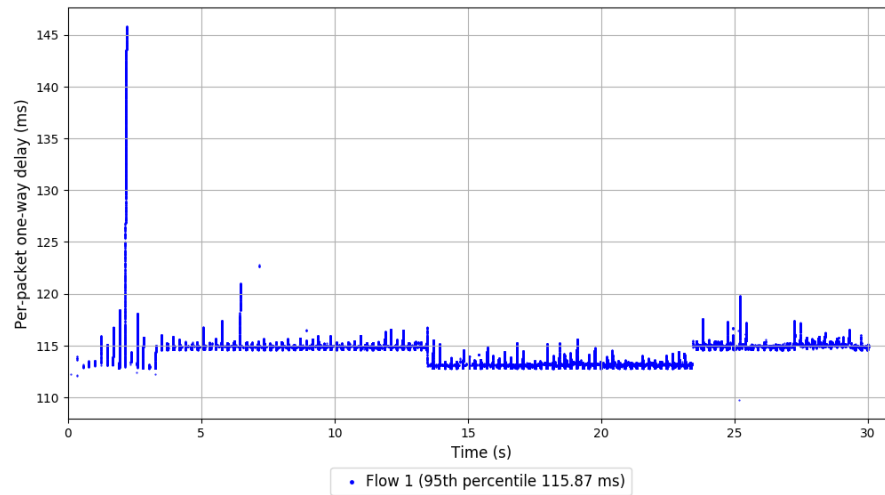
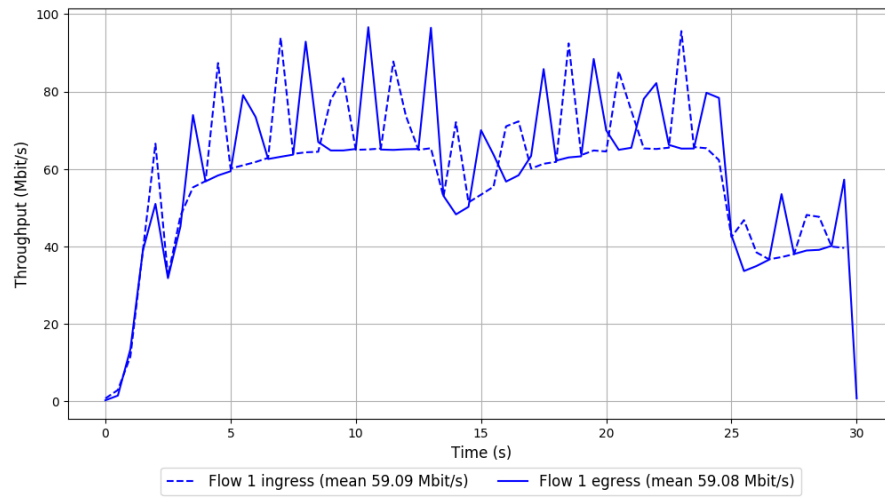
-- Flow 1:

Average throughput: 59.08 Mbit/s

95th percentile per-packet one-way delay: 115.871 ms

Loss rate: 0.01%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2017-11-15 23:53:54

End at: 2017-11-15 23:54:24

Below is generated by plot.py at 2017-11-16 00:37:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 61.58 Mbit/s

95th percentile per-packet one-way delay: 115.244 ms

Loss rate: 0.00%

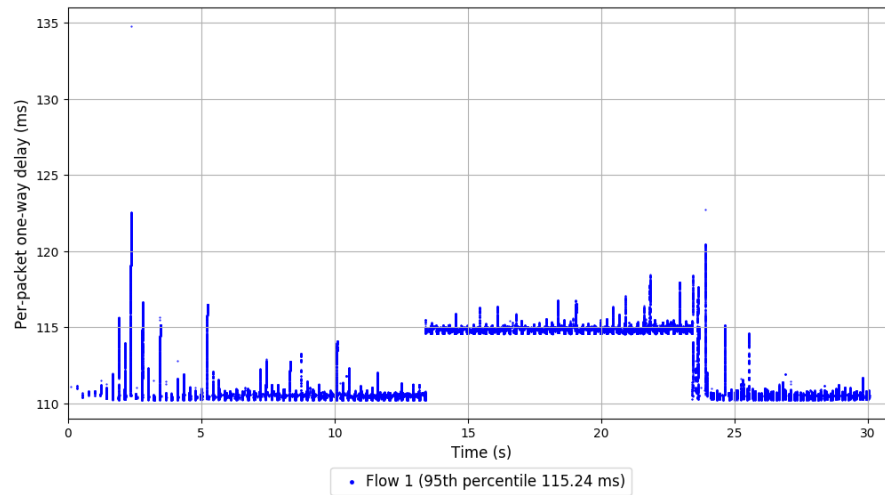
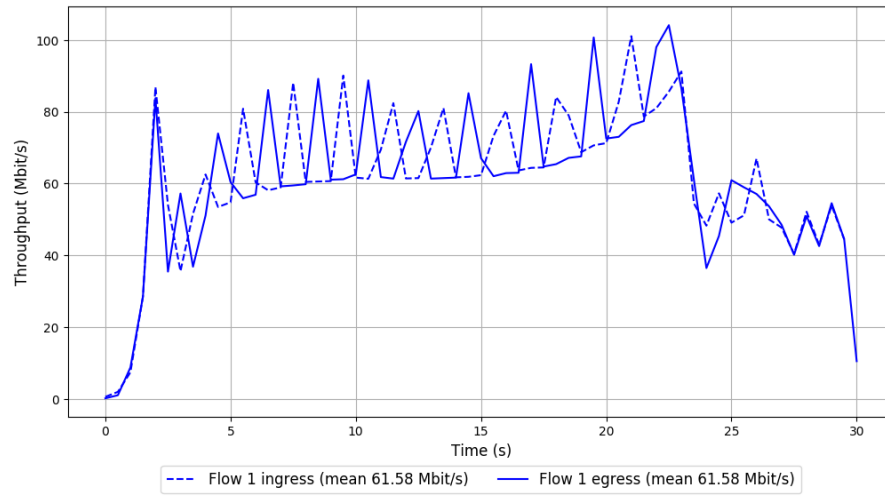
-- Flow 1:

Average throughput: 61.58 Mbit/s

95th percentile per-packet one-way delay: 115.244 ms

Loss rate: 0.00%

Run 10: Report of TCP Cubic — Data Link

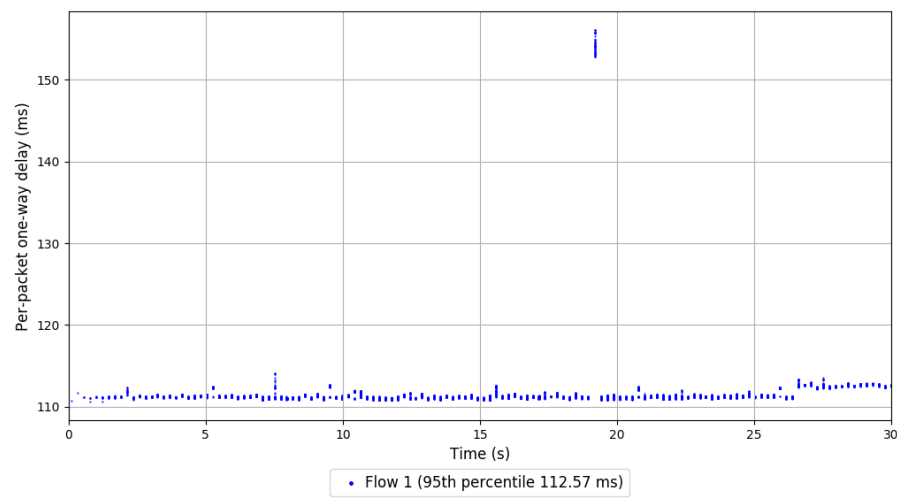
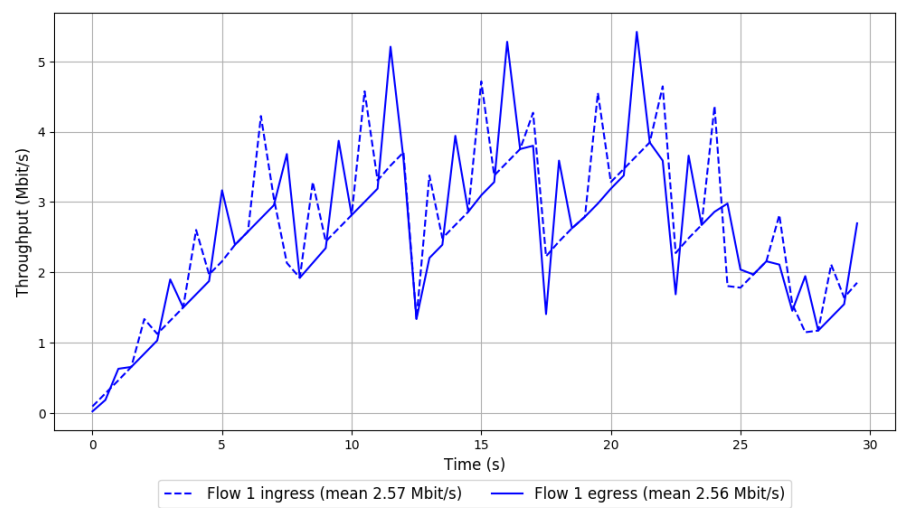


```
Run 1: Statistics of LEDBAT

Start at: 2017-11-15 22:11:00
End at: 2017-11-15 22:11:30

# Below is generated by plot.py at 2017-11-16 00:37:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.56 Mbit/s
95th percentile per-packet one-way delay: 112.574 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 2.56 Mbit/s
95th percentile per-packet one-way delay: 112.574 ms
Loss rate: 0.50%
```

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2017-11-15 22:21:42

End at: 2017-11-15 22:22:12

Below is generated by plot.py at 2017-11-16 00:37:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.57 Mbit/s

95th percentile per-packet one-way delay: 112.911 ms

Loss rate: 0.23%

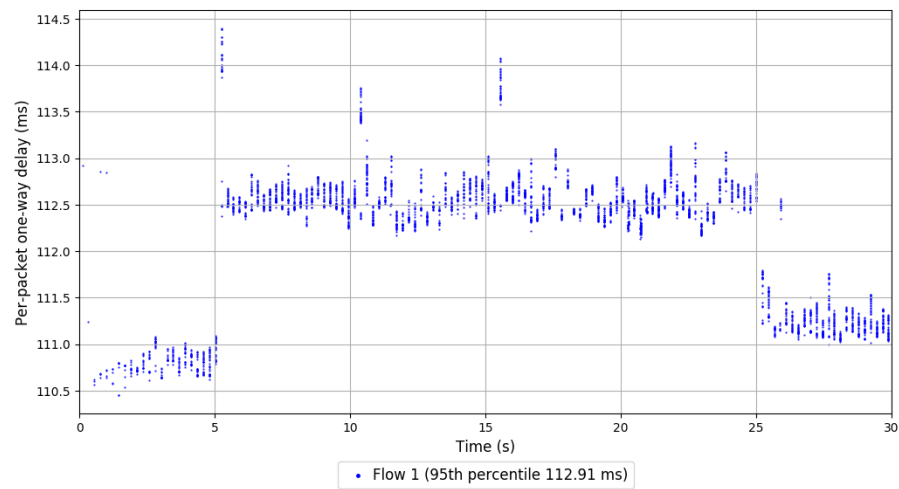
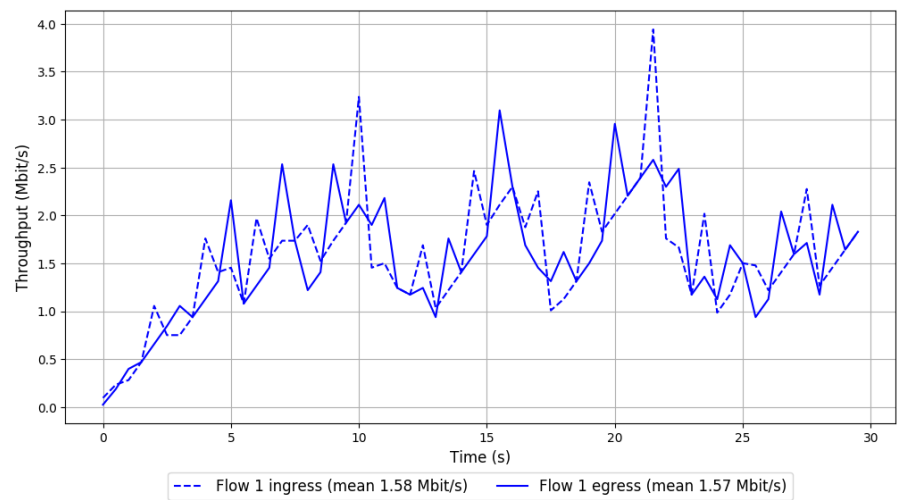
-- Flow 1:

Average throughput: 1.57 Mbit/s

95th percentile per-packet one-way delay: 112.911 ms

Loss rate: 0.23%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2017-11-15 22:32:53

End at: 2017-11-15 22:33:23

Below is generated by plot.py at 2017-11-16 00:37:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.15 Mbit/s

95th percentile per-packet one-way delay: 111.996 ms

Loss rate: 0.10%

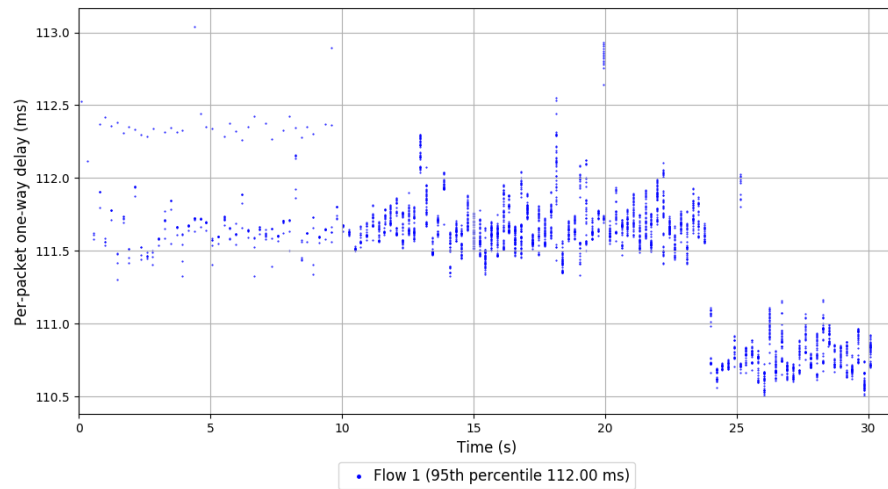
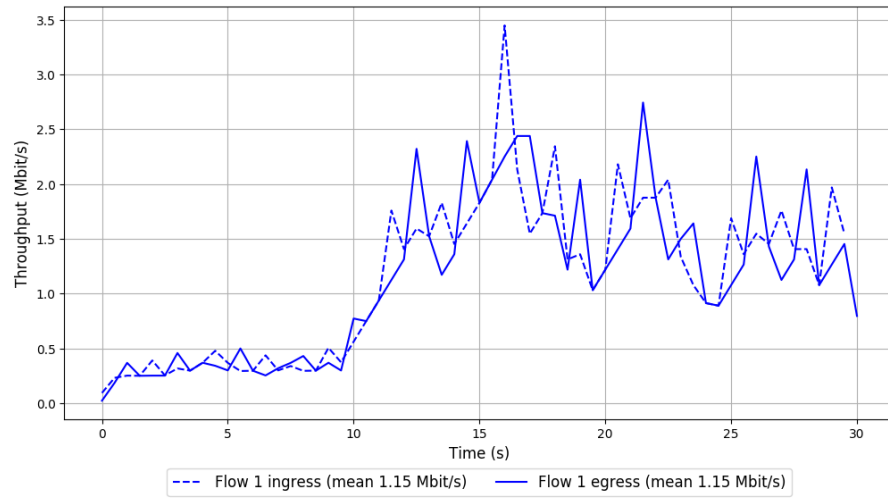
-- Flow 1:

Average throughput: 1.15 Mbit/s

95th percentile per-packet one-way delay: 111.996 ms

Loss rate: 0.10%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2017-11-15 22:43:50

End at: 2017-11-15 22:44:20

Below is generated by plot.py at 2017-11-16 00:37:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.43 Mbit/s

95th percentile per-packet one-way delay: 112.121 ms

Loss rate: 0.49%

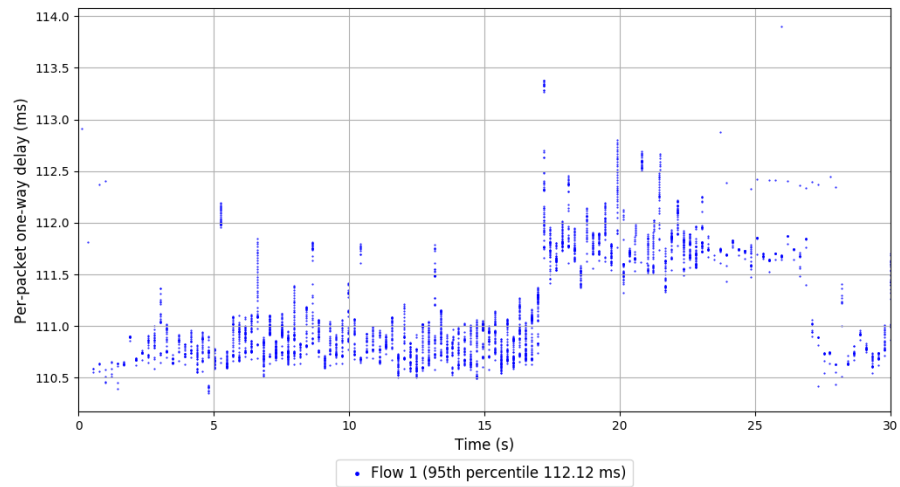
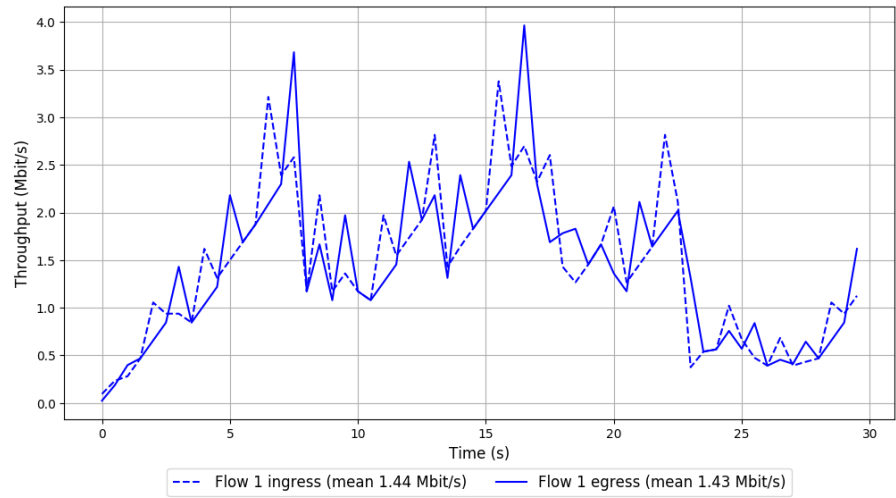
-- Flow 1:

Average throughput: 1.43 Mbit/s

95th percentile per-packet one-way delay: 112.121 ms

Loss rate: 0.49%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2017-11-15 22:54:58

End at: 2017-11-15 22:55:28

Below is generated by plot.py at 2017-11-16 00:37:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 113.183 ms

Loss rate: 0.19%

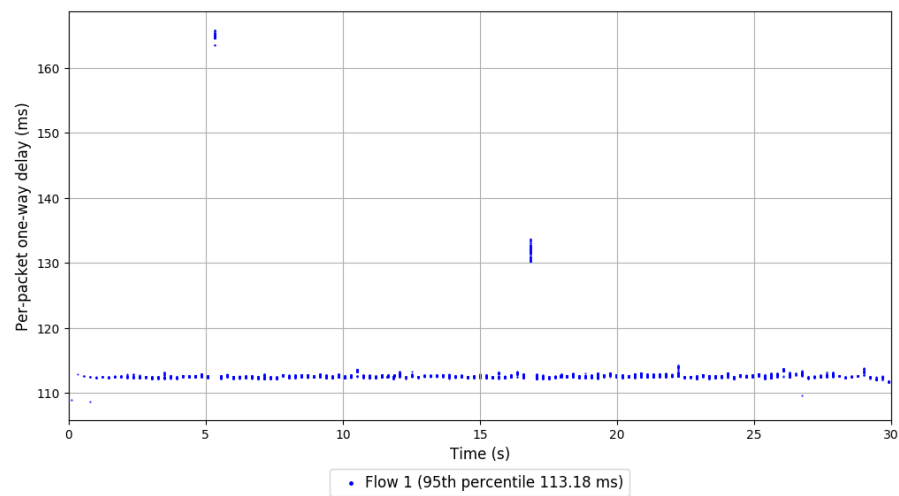
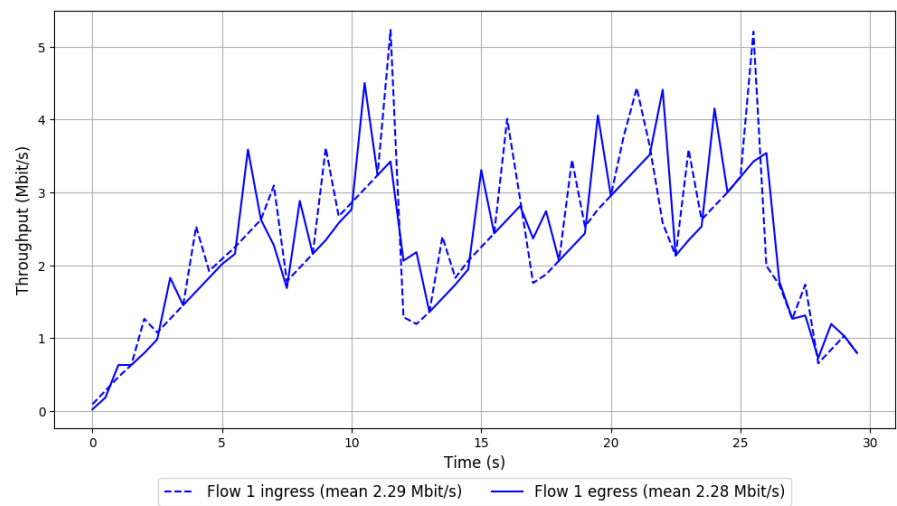
-- Flow 1:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 113.183 ms

Loss rate: 0.19%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2017-11-15 23:05:57

End at: 2017-11-15 23:06:27

Below is generated by plot.py at 2017-11-16 00:37:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 113.594 ms

Loss rate: 0.50%

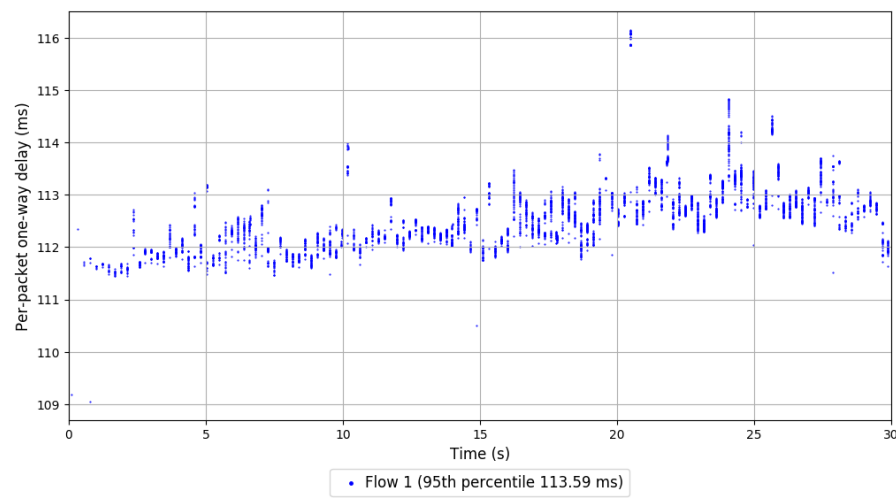
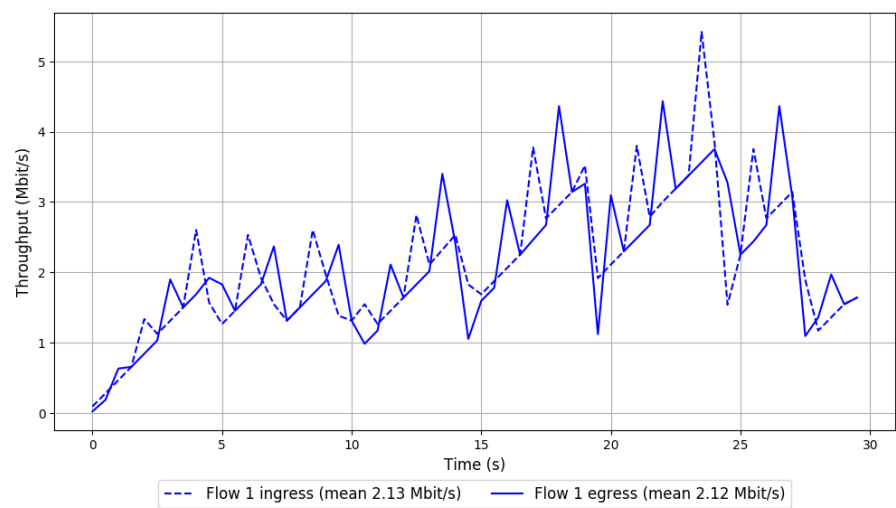
-- Flow 1:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 113.594 ms

Loss rate: 0.50%

Run 6: Report of LEDBAT — Data Link

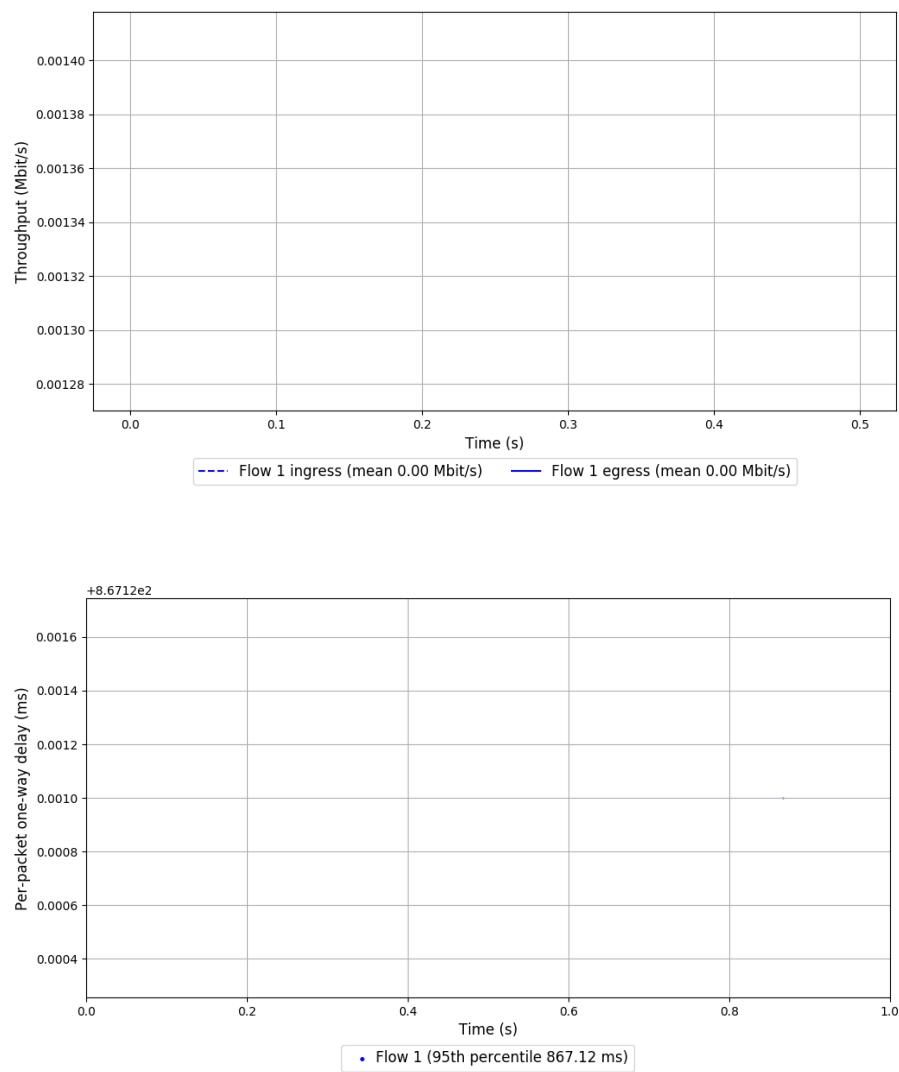


Run 7: Statistics of LEDBAT

Start at: 2017-11-15 23:17:04

End at: 2017-11-15 23:17:34

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2017-11-15 23:28:01

End at: 2017-11-15 23:28:31

Below is generated by plot.py at 2017-11-16 00:37:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.75 Mbit/s

95th percentile per-packet one-way delay: 113.358 ms

Loss rate: 0.45%

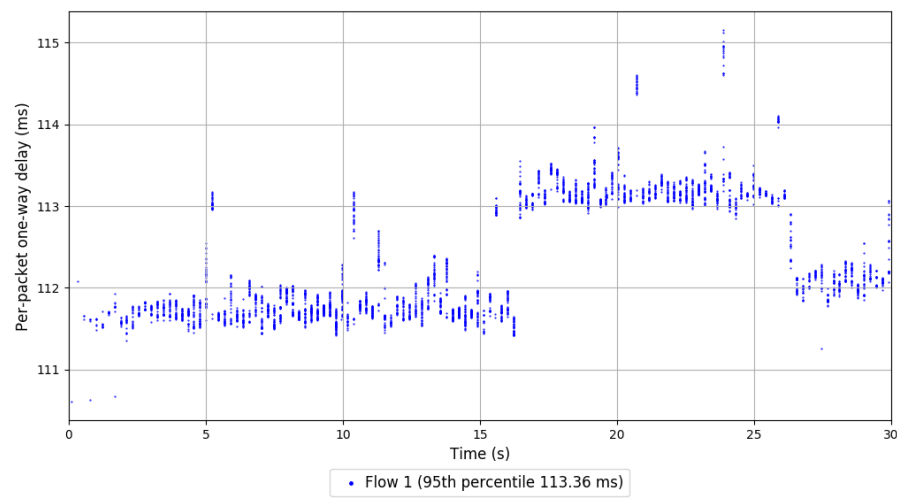
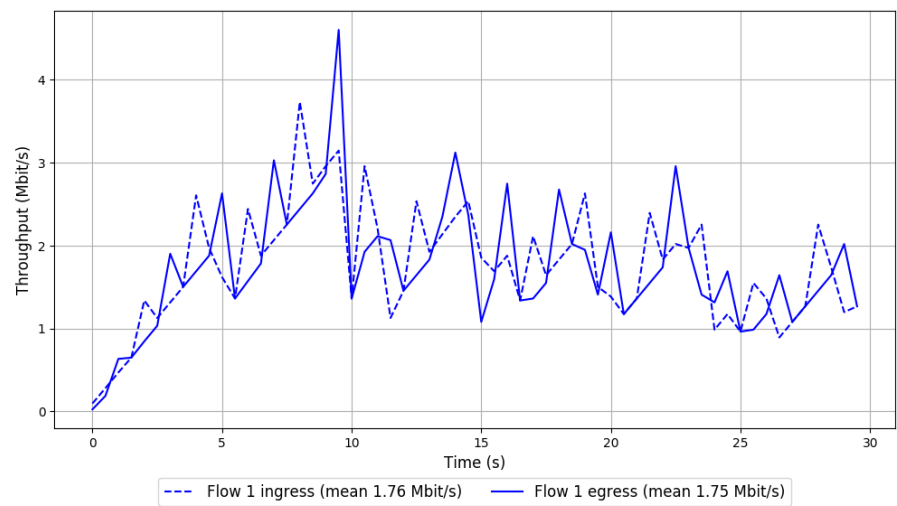
-- Flow 1:

Average throughput: 1.75 Mbit/s

95th percentile per-packet one-way delay: 113.358 ms

Loss rate: 0.45%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2017-11-15 23:39:03

End at: 2017-11-15 23:39:33

Below is generated by plot.py at 2017-11-16 00:37:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.71 Mbit/s

95th percentile per-packet one-way delay: 113.505 ms

Loss rate: 0.59%

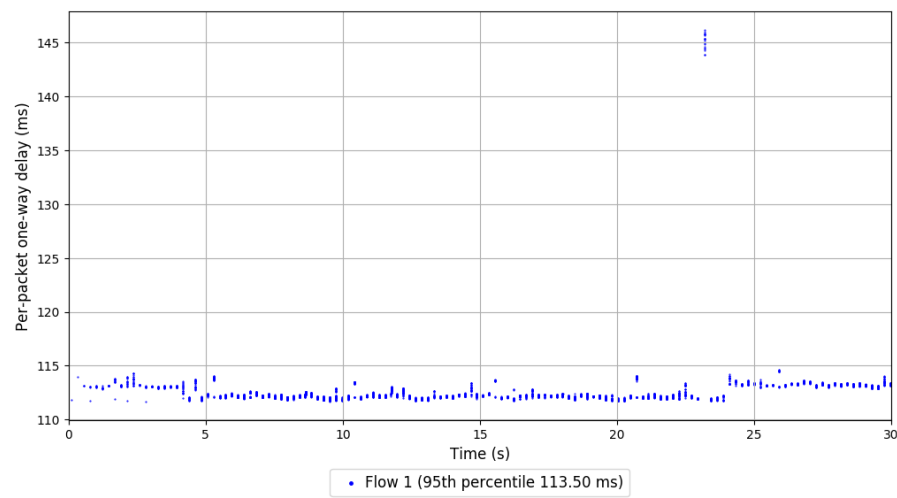
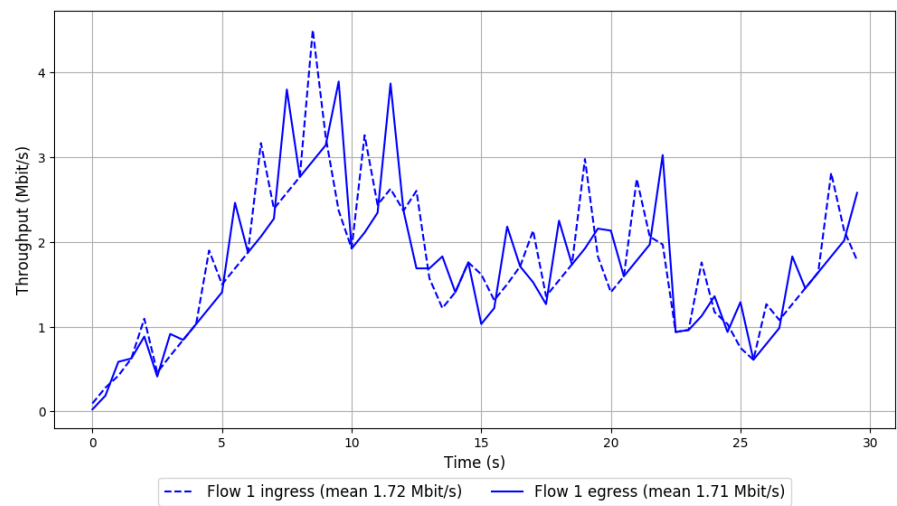
-- Flow 1:

Average throughput: 1.71 Mbit/s

95th percentile per-packet one-way delay: 113.505 ms

Loss rate: 0.59%

Run 9: Report of LEDBAT — Data Link

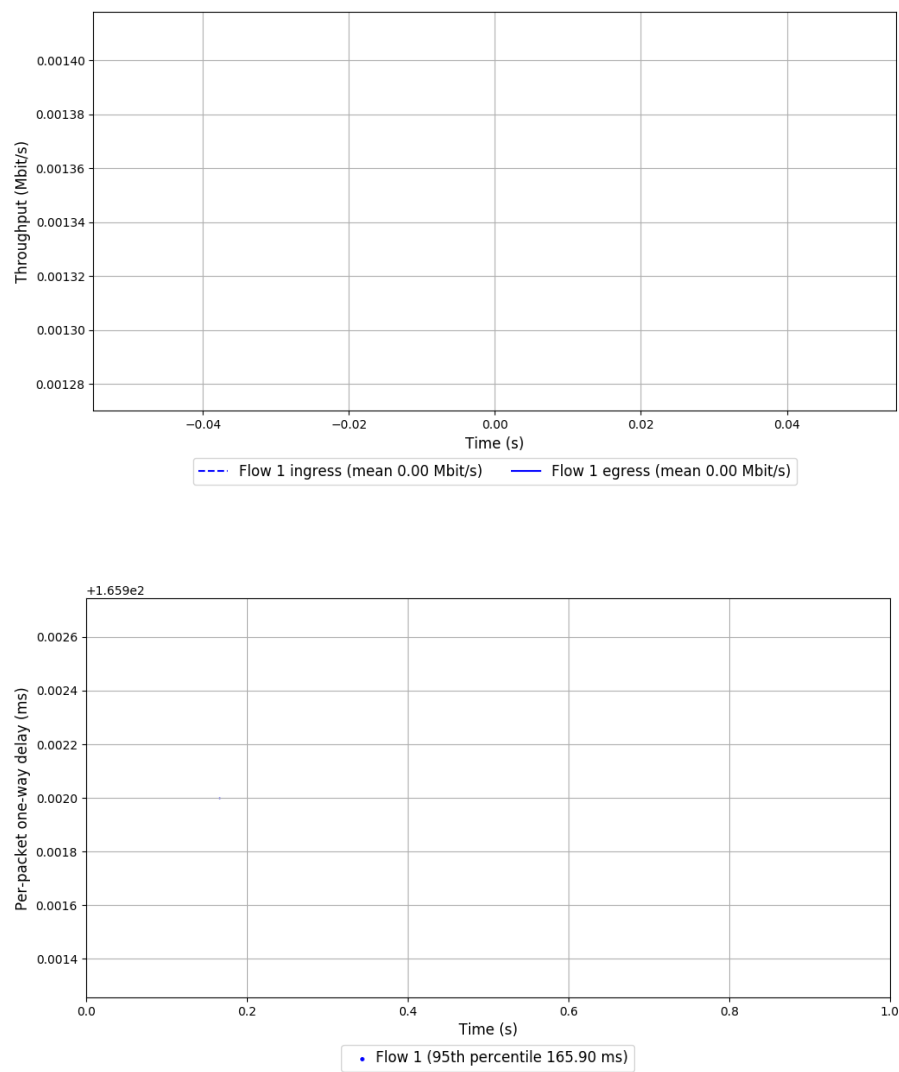


Run 10: Statistics of LEDBAT

Start at: 2017-11-15 23:50:13

End at: 2017-11-15 23:50:43

Run 10: Report of LEDBAT — Data Link

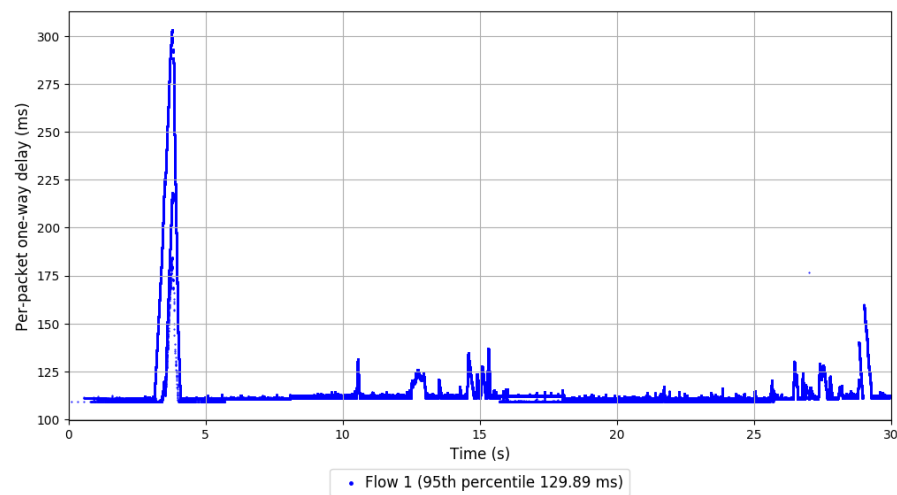
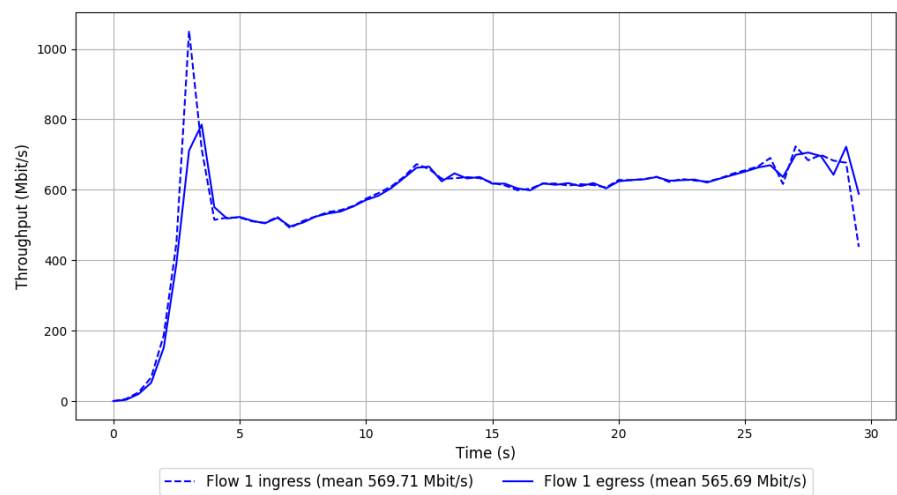


```
Run 1: Statistics of PCC

Start at: 2017-11-15 22:15:19
End at: 2017-11-15 22:15:49

# Below is generated by plot.py at 2017-11-16 00:46:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 565.69 Mbit/s
95th percentile per-packet one-way delay: 129.886 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 565.69 Mbit/s
95th percentile per-packet one-way delay: 129.886 ms
Loss rate: 0.70%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2017-11-15 22:26:06

End at: 2017-11-15 22:26:36

Below is generated by plot.py at 2017-11-16 00:48:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 629.58 Mbit/s

95th percentile per-packet one-way delay: 215.777 ms

Loss rate: 2.01%

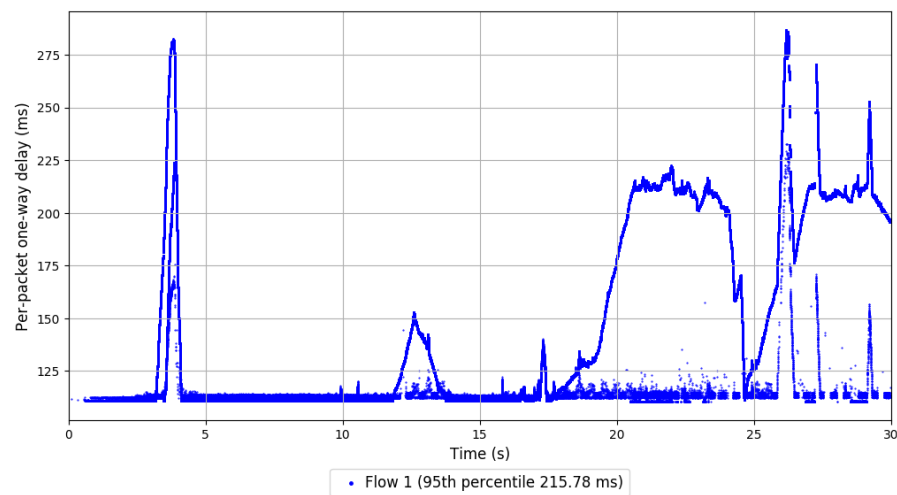
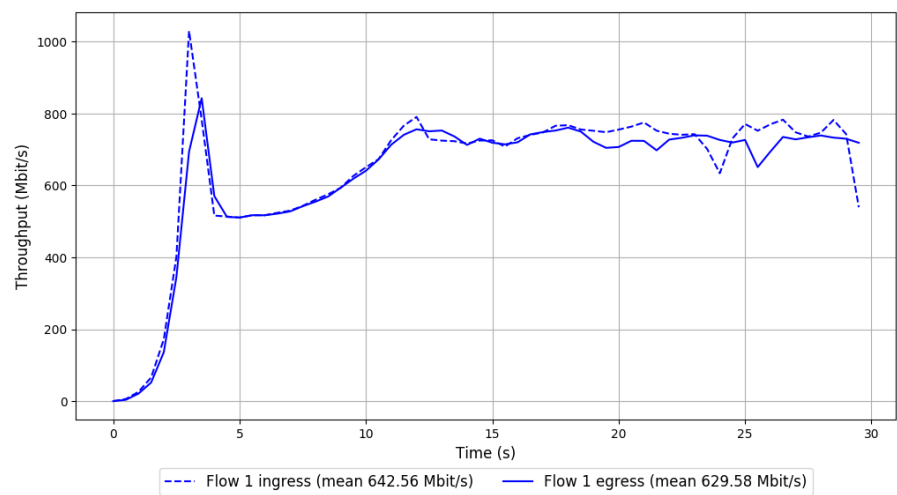
-- Flow 1:

Average throughput: 629.58 Mbit/s

95th percentile per-packet one-way delay: 215.777 ms

Loss rate: 2.01%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2017-11-15 22:37:16

End at: 2017-11-15 22:37:46

Below is generated by plot.py at 2017-11-16 00:48:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 590.52 Mbit/s

95th percentile per-packet one-way delay: 181.345 ms

Loss rate: 1.42%

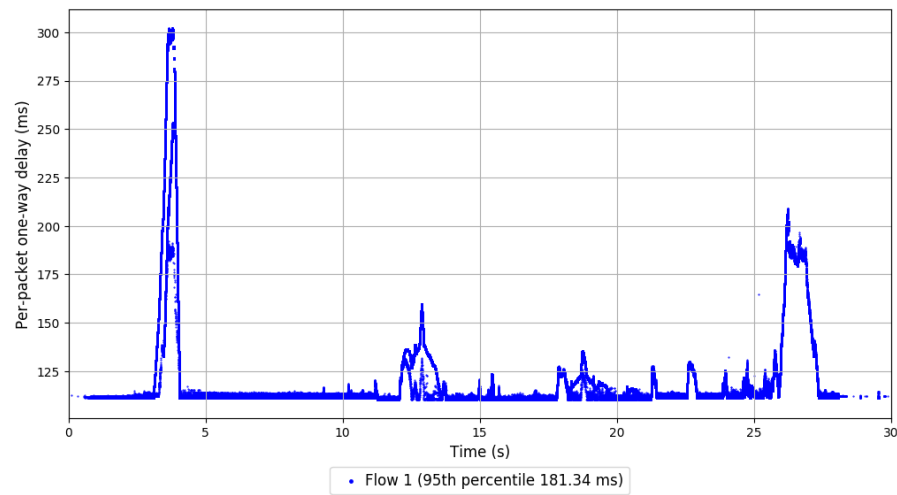
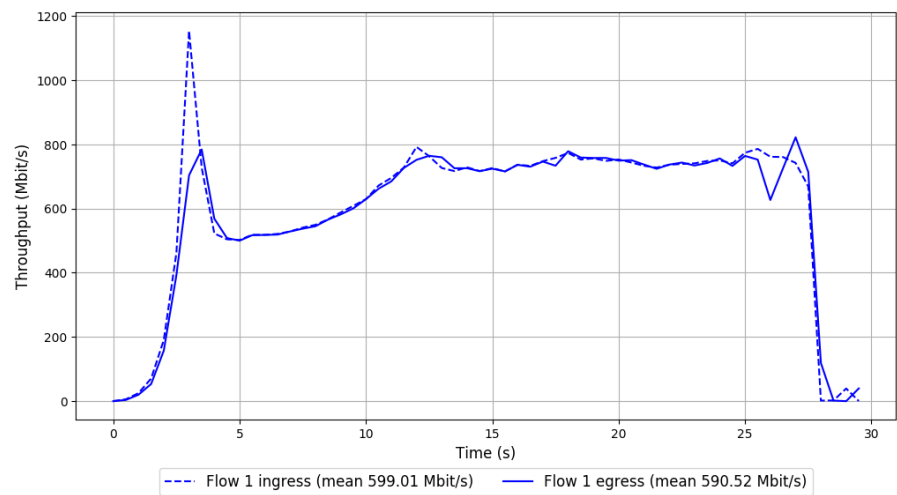
-- Flow 1:

Average throughput: 590.52 Mbit/s

95th percentile per-packet one-way delay: 181.345 ms

Loss rate: 1.42%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2017-11-15 22:48:12

End at: 2017-11-15 22:48:42

Below is generated by plot.py at 2017-11-16 00:48:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 556.23 Mbit/s

95th percentile per-packet one-way delay: 145.643 ms

Loss rate: 0.85%

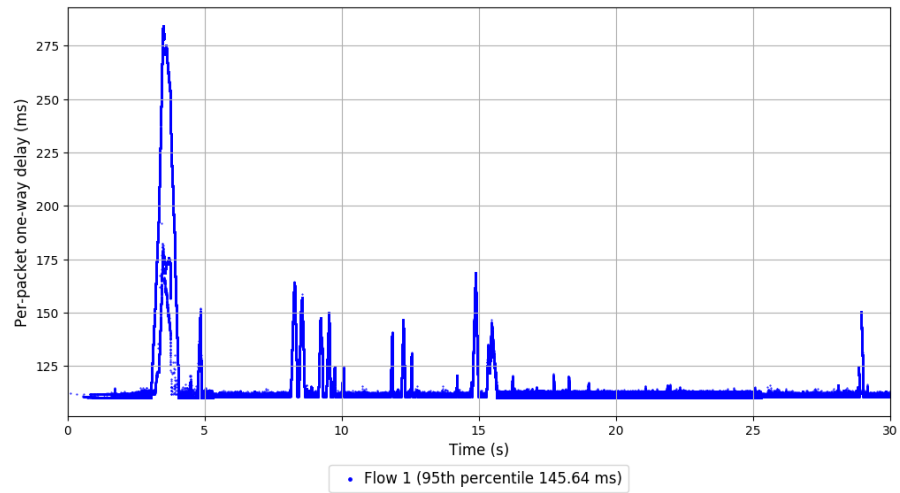
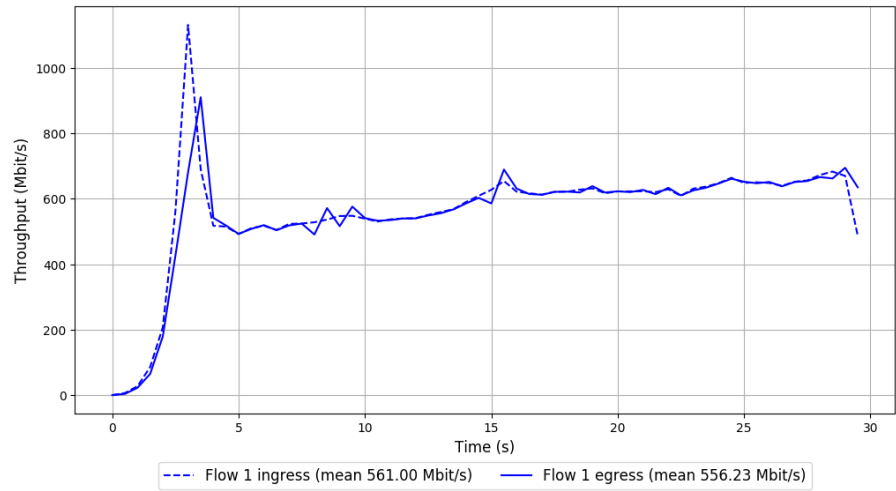
-- Flow 1:

Average throughput: 556.23 Mbit/s

95th percentile per-packet one-way delay: 145.643 ms

Loss rate: 0.85%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2017-11-15 22:59:20

End at: 2017-11-15 22:59:50

Below is generated by plot.py at 2017-11-16 00:48:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 534.45 Mbit/s

95th percentile per-packet one-way delay: 233.973 ms

Loss rate: 3.02%

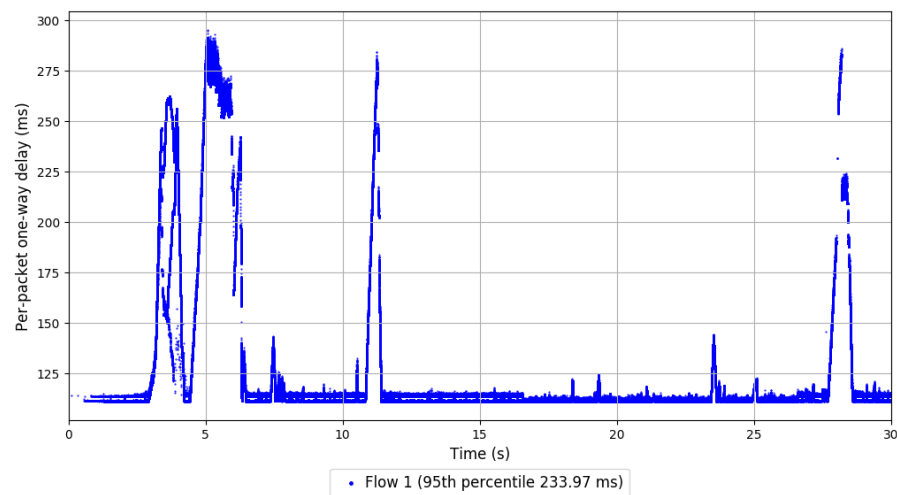
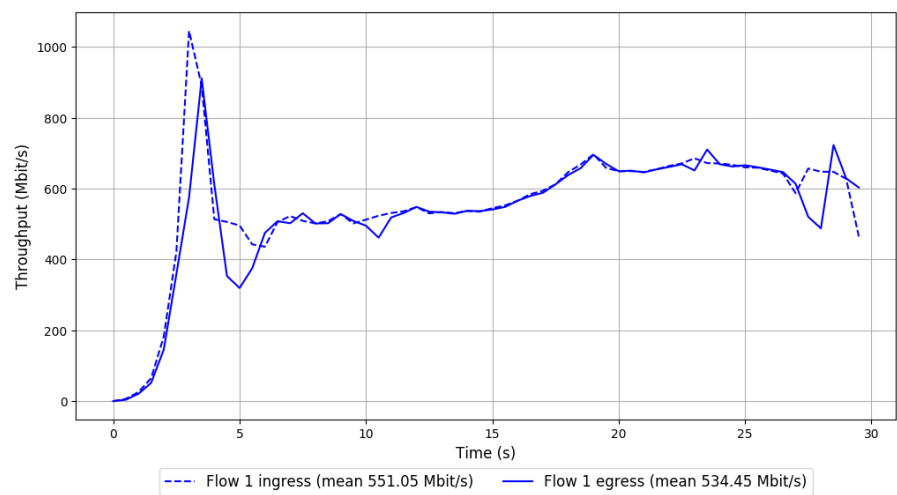
-- Flow 1:

Average throughput: 534.45 Mbit/s

95th percentile per-packet one-way delay: 233.973 ms

Loss rate: 3.02%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2017-11-15 23:10:23

End at: 2017-11-15 23:10:53

Below is generated by plot.py at 2017-11-16 00:48:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 645.04 Mbit/s

95th percentile per-packet one-way delay: 205.025 ms

Loss rate: 0.65%

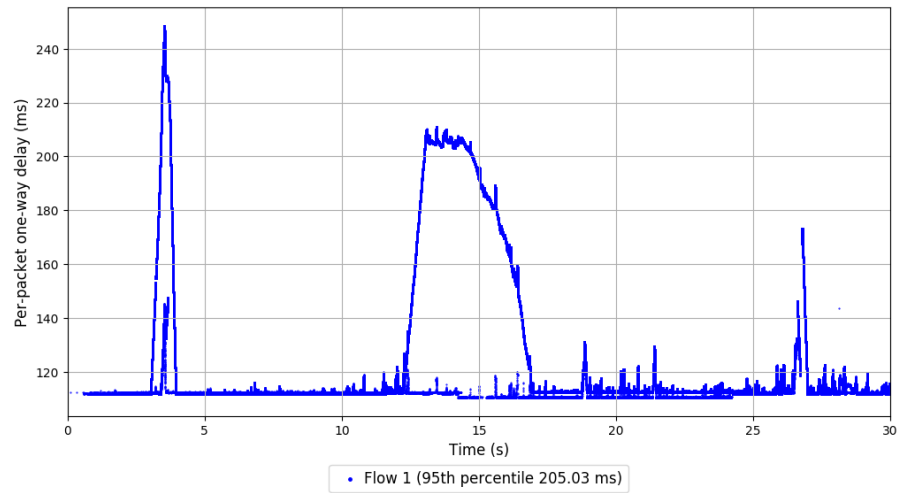
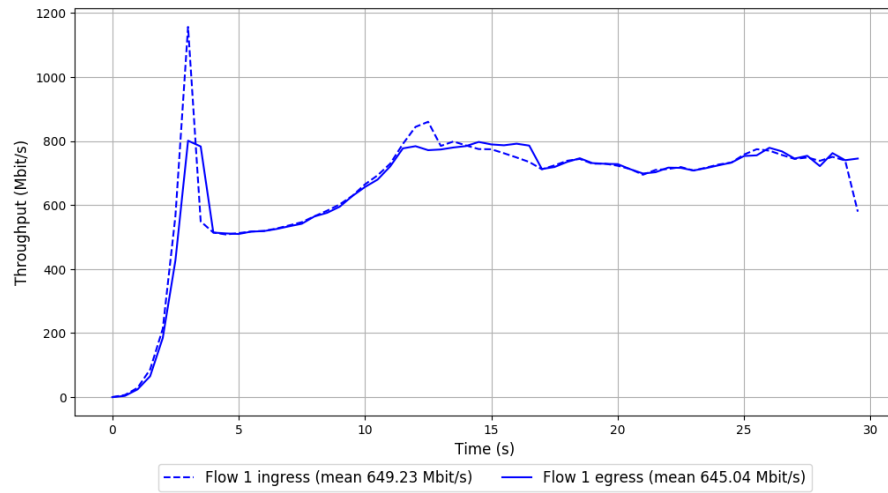
-- Flow 1:

Average throughput: 645.04 Mbit/s

95th percentile per-packet one-way delay: 205.025 ms

Loss rate: 0.65%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2017-11-15 23:21:27

End at: 2017-11-15 23:21:57

Below is generated by plot.py at 2017-11-16 00:48:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 536.39 Mbit/s

95th percentile per-packet one-way delay: 146.881 ms

Loss rate: 1.04%

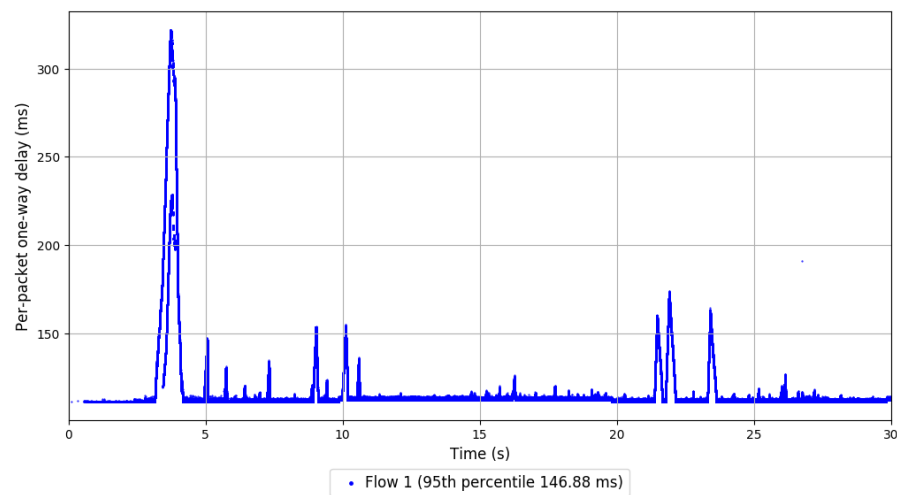
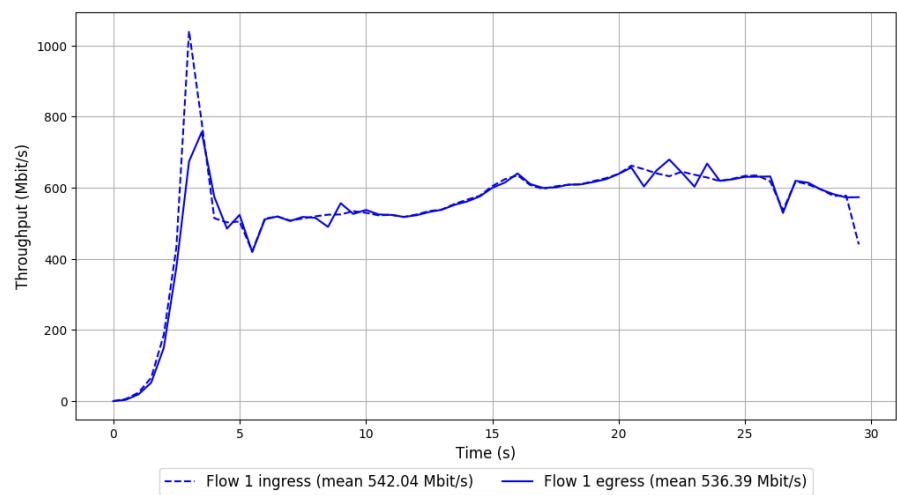
-- Flow 1:

Average throughput: 536.39 Mbit/s

95th percentile per-packet one-way delay: 146.881 ms

Loss rate: 1.04%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2017-11-15 23:32:24

End at: 2017-11-15 23:32:54

Below is generated by plot.py at 2017-11-16 00:48:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 414.60 Mbit/s

95th percentile per-packet one-way delay: 223.173 ms

Loss rate: 2.39%

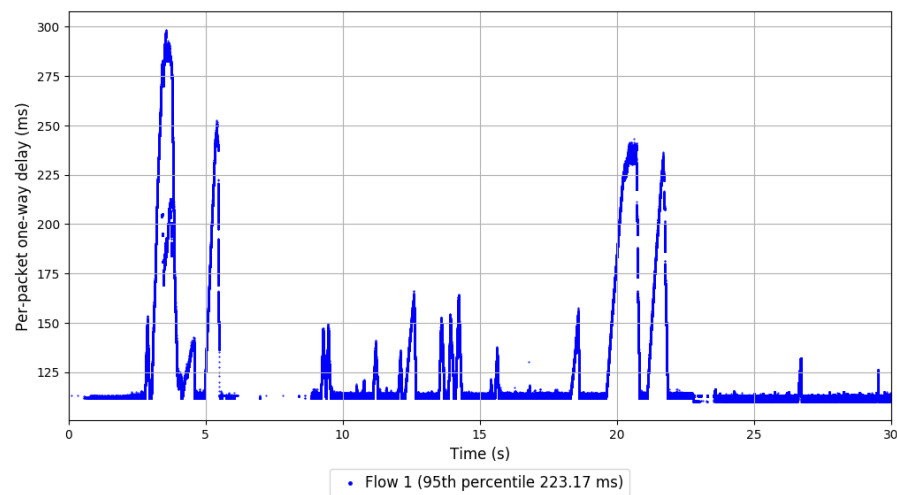
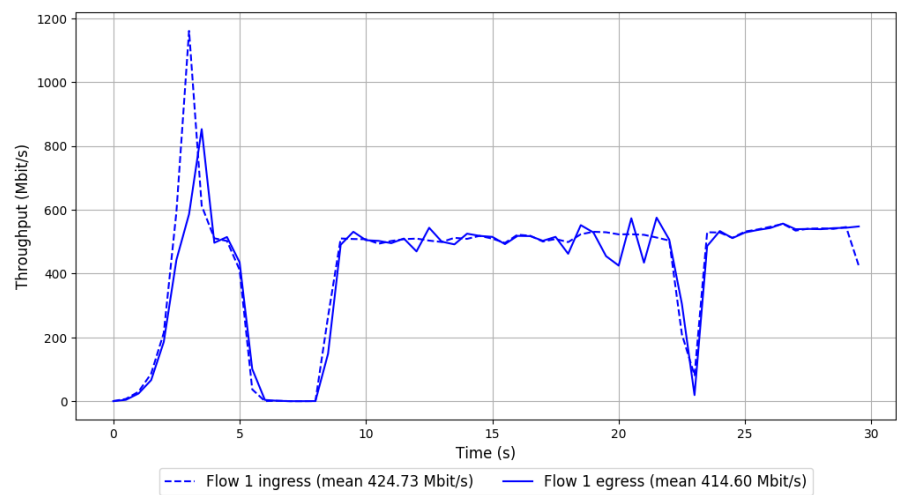
-- Flow 1:

Average throughput: 414.60 Mbit/s

95th percentile per-packet one-way delay: 223.173 ms

Loss rate: 2.39%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2017-11-15 23:43:28

End at: 2017-11-15 23:43:58

Below is generated by plot.py at 2017-11-16 00:57:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 609.19 Mbit/s

95th percentile per-packet one-way delay: 224.951 ms

Loss rate: 1.72%

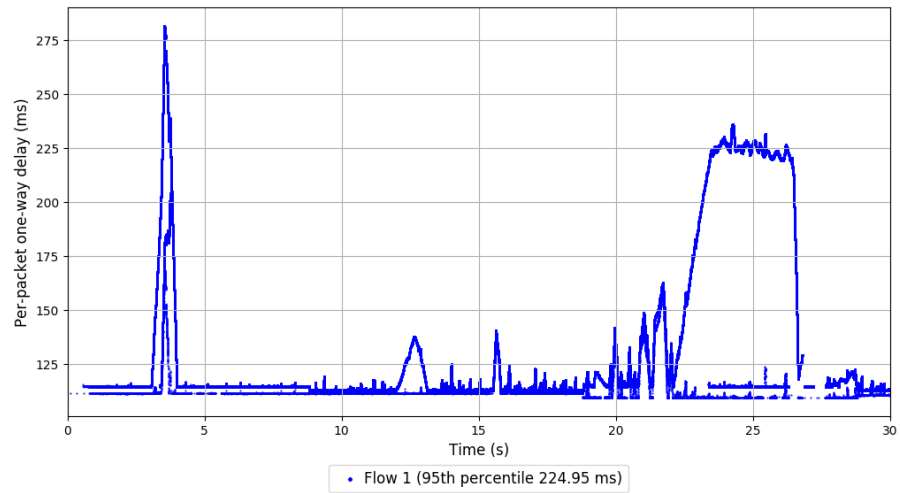
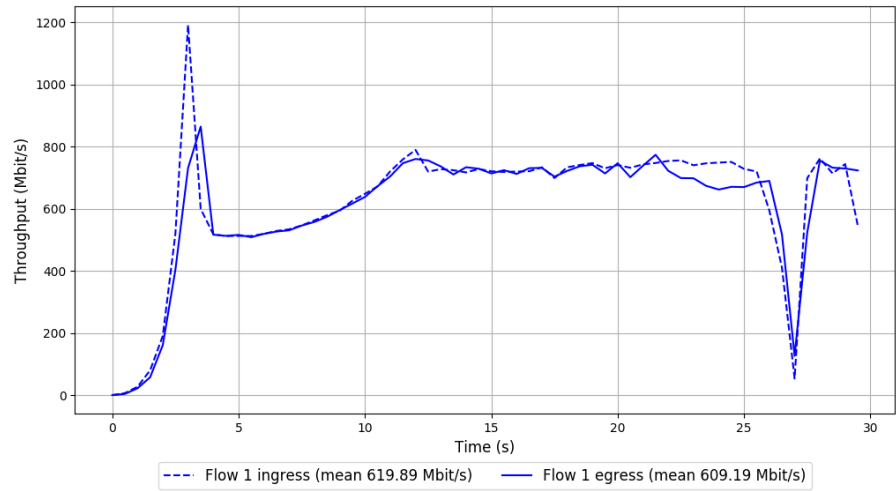
-- Flow 1:

Average throughput: 609.19 Mbit/s

95th percentile per-packet one-way delay: 224.951 ms

Loss rate: 1.72%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2017-11-15 23:54:38

End at: 2017-11-15 23:55:08

Below is generated by plot.py at 2017-11-16 00:57:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 567.38 Mbit/s

95th percentile per-packet one-way delay: 124.429 ms

Loss rate: 0.61%

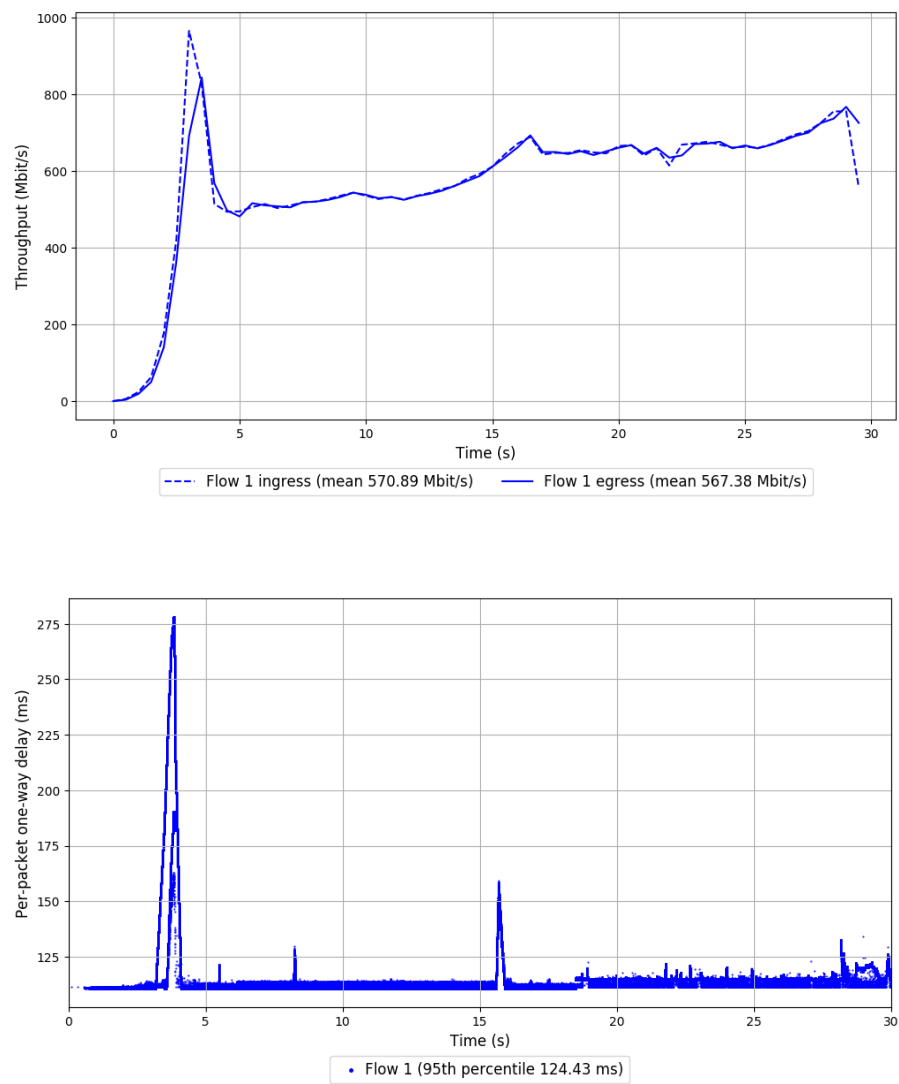
-- Flow 1:

Average throughput: 567.38 Mbit/s

95th percentile per-packet one-way delay: 124.429 ms

Loss rate: 0.61%

Run 10: Report of PCC — Data Link

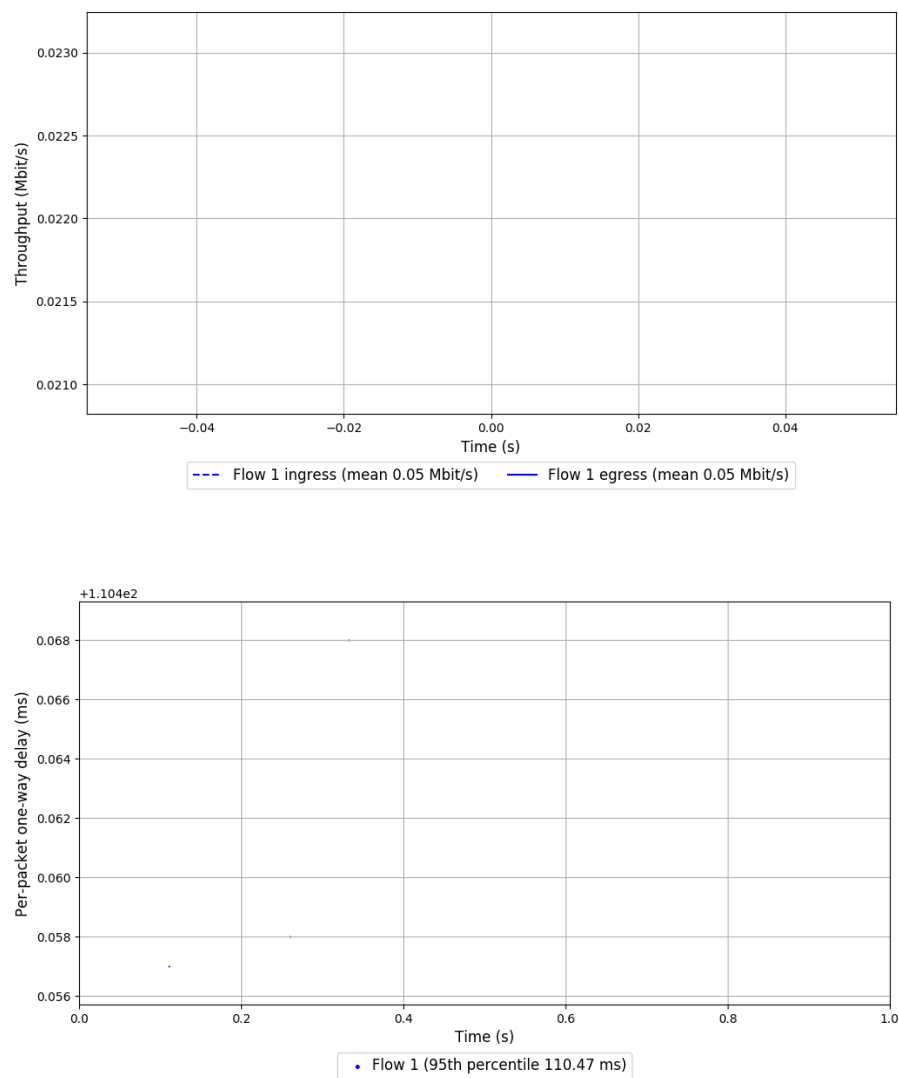


Run 1: Statistics of QUIC Cubic

Start at: 2017-11-15 22:11:41

End at: 2017-11-15 22:12:11

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2017-11-15 22:22:23

End at: 2017-11-15 22:22:53

Below is generated by plot.py at 2017-11-16 00:57:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 55.00 Mbit/s

95th percentile per-packet one-way delay: 112.247 ms

Loss rate: 0.00%

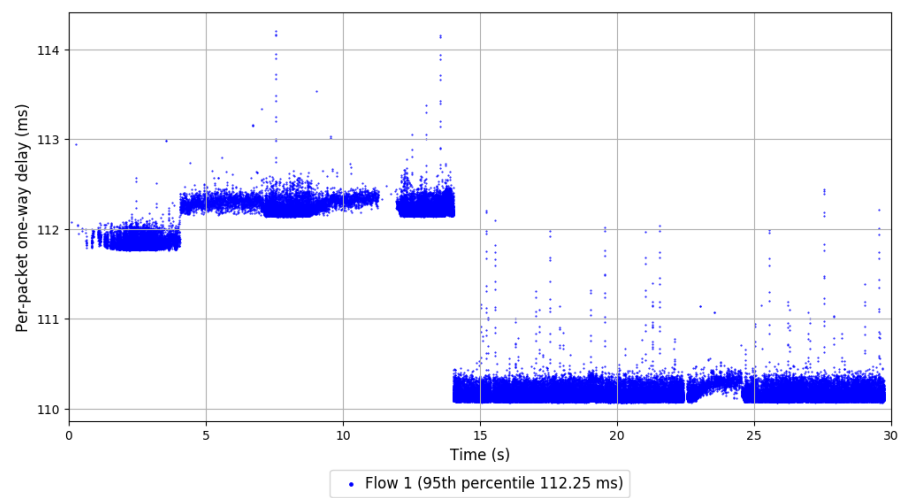
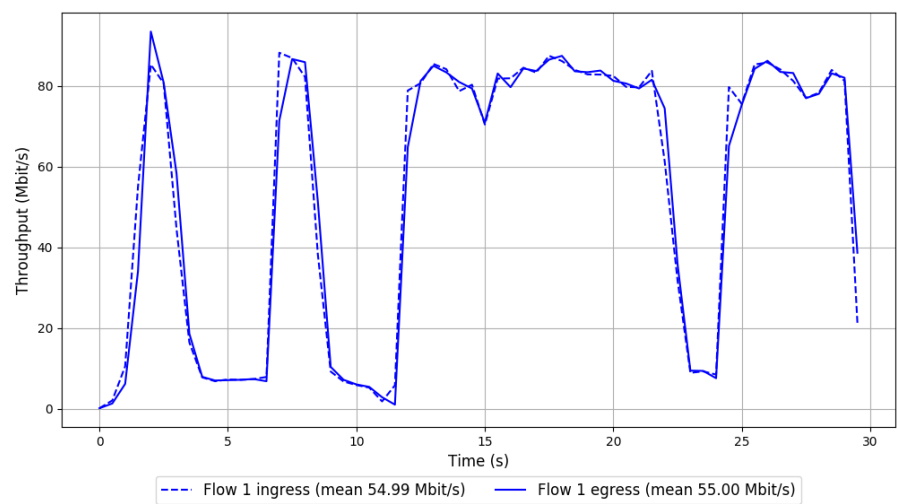
-- Flow 1:

Average throughput: 55.00 Mbit/s

95th percentile per-packet one-way delay: 112.247 ms

Loss rate: 0.00%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2017-11-15 22:33:34

End at: 2017-11-15 22:34:04

Below is generated by plot.py at 2017-11-16 00:57:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 56.82 Mbit/s

95th percentile per-packet one-way delay: 110.525 ms

Loss rate: 0.00%

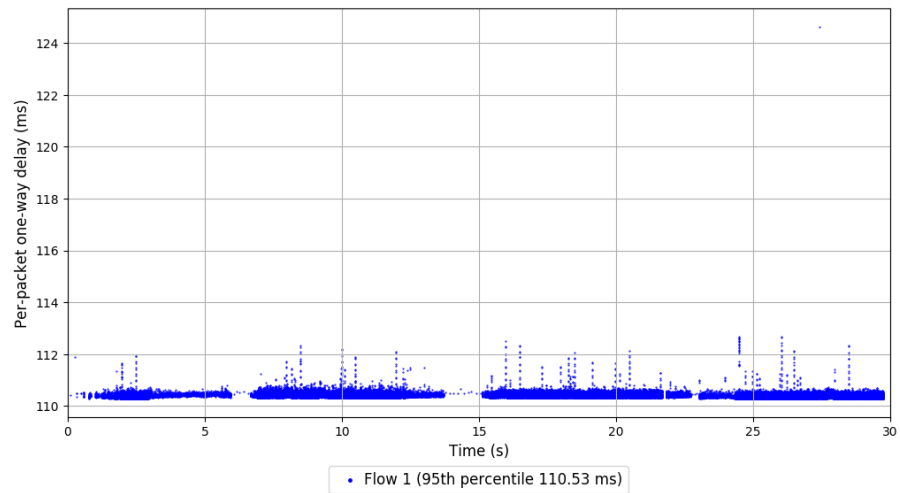
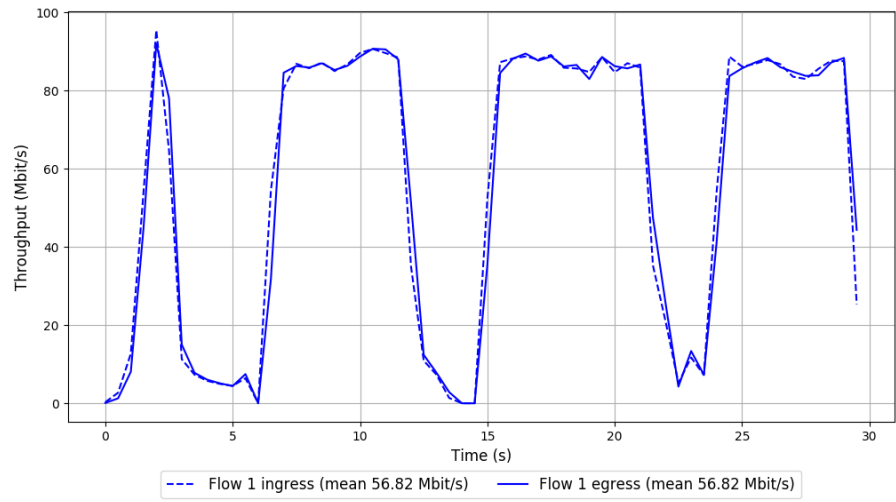
-- Flow 1:

Average throughput: 56.82 Mbit/s

95th percentile per-packet one-way delay: 110.525 ms

Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2017-11-15 22:44:31

End at: 2017-11-15 22:45:01

Below is generated by plot.py at 2017-11-16 00:57:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.86 Mbit/s

95th percentile per-packet one-way delay: 110.008 ms

Loss rate: 0.00%

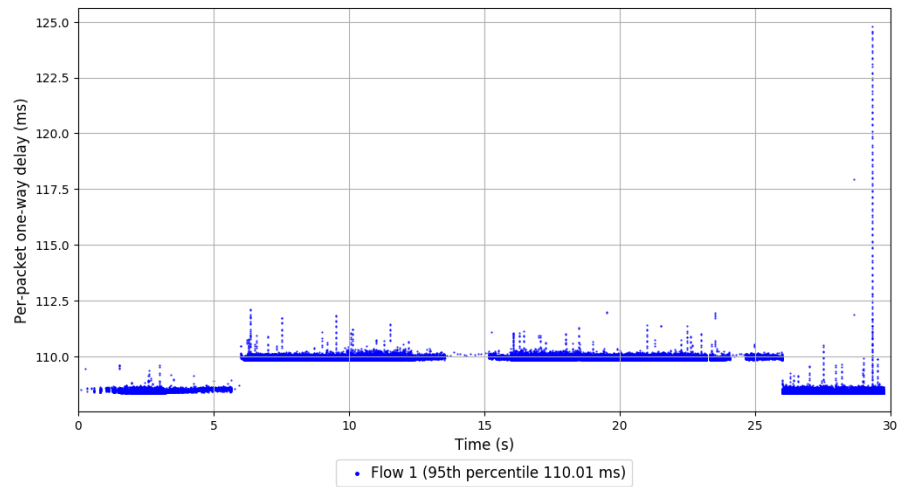
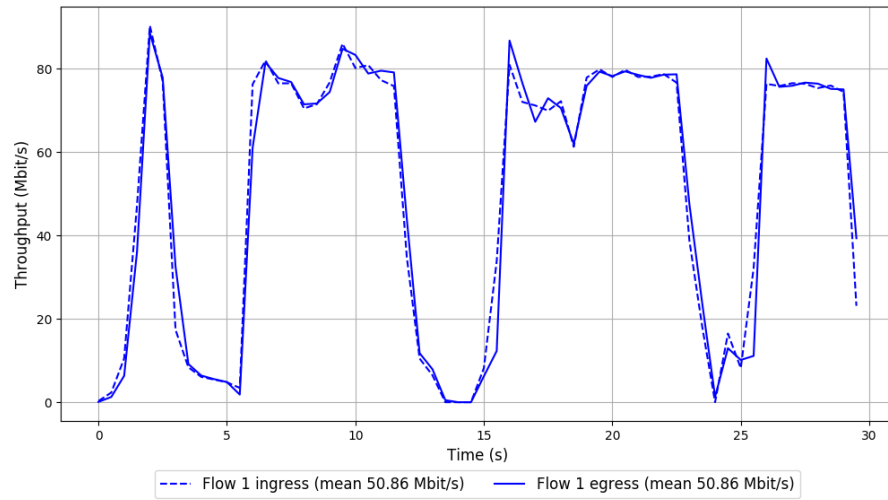
-- Flow 1:

Average throughput: 50.86 Mbit/s

95th percentile per-packet one-way delay: 110.008 ms

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2017-11-15 22:55:39

End at: 2017-11-15 22:56:09

Below is generated by plot.py at 2017-11-16 00:57:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 51.93 Mbit/s

95th percentile per-packet one-way delay: 111.157 ms

Loss rate: 0.00%

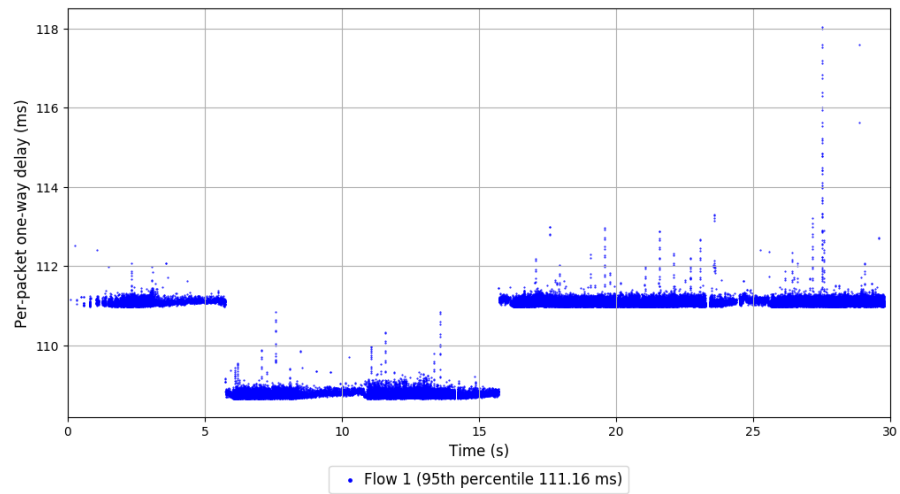
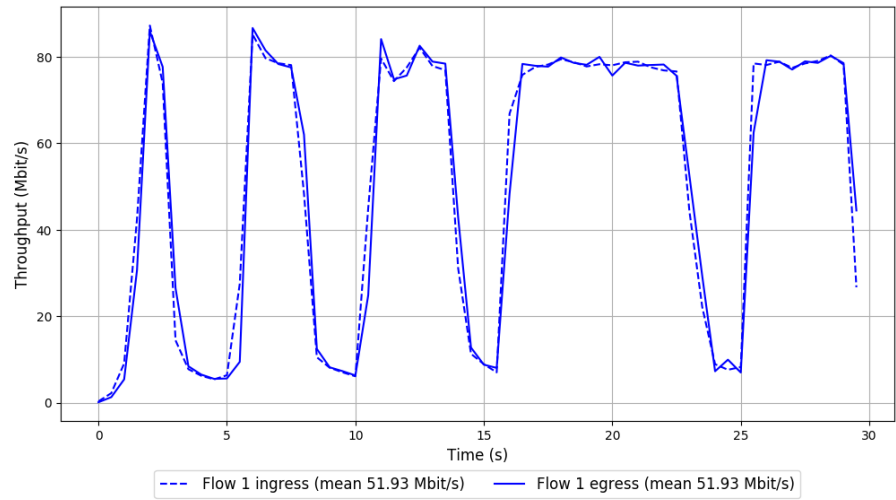
-- Flow 1:

Average throughput: 51.93 Mbit/s

95th percentile per-packet one-way delay: 111.157 ms

Loss rate: 0.00%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2017-11-15 23:06:38

End at: 2017-11-15 23:07:08

Below is generated by plot.py at 2017-11-16 00:57:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 53.19 Mbit/s

95th percentile per-packet one-way delay: 111.492 ms

Loss rate: 0.00%

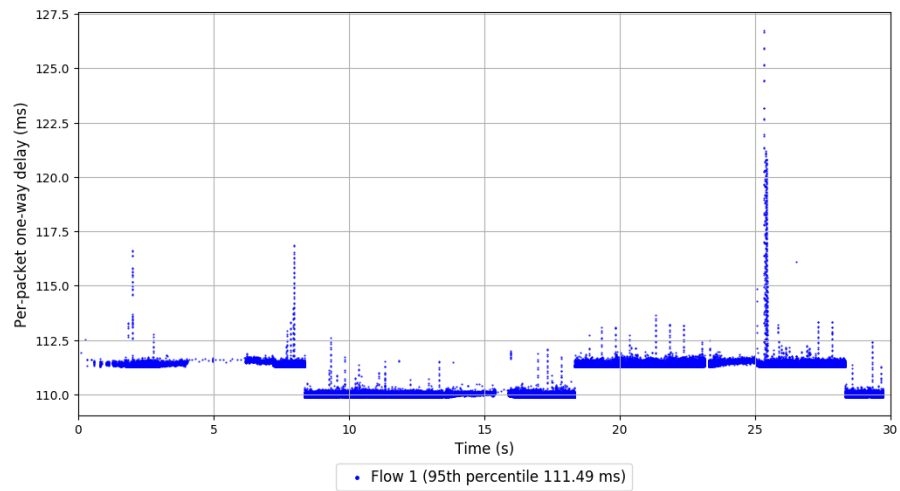
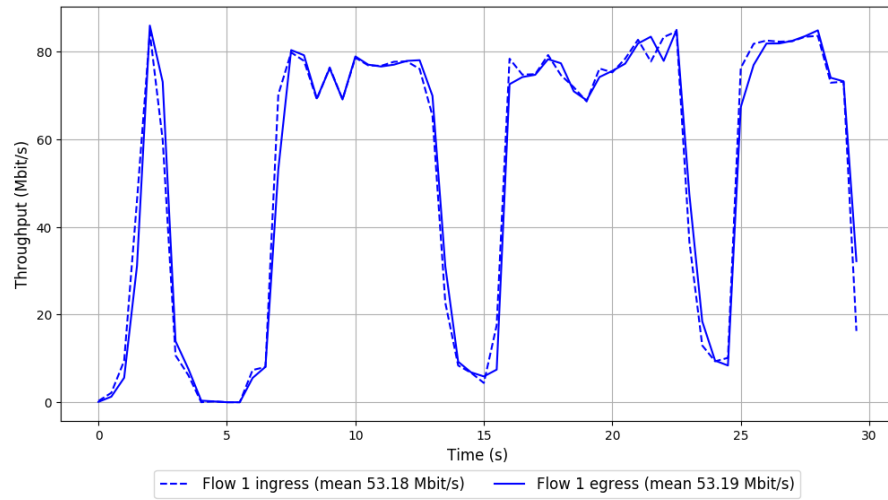
-- Flow 1:

Average throughput: 53.19 Mbit/s

95th percentile per-packet one-way delay: 111.492 ms

Loss rate: 0.00%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2017-11-15 23:17:44

End at: 2017-11-15 23:18:14

Below is generated by plot.py at 2017-11-16 00:57:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 70.34 Mbit/s

95th percentile per-packet one-way delay: 111.180 ms

Loss rate: 0.00%

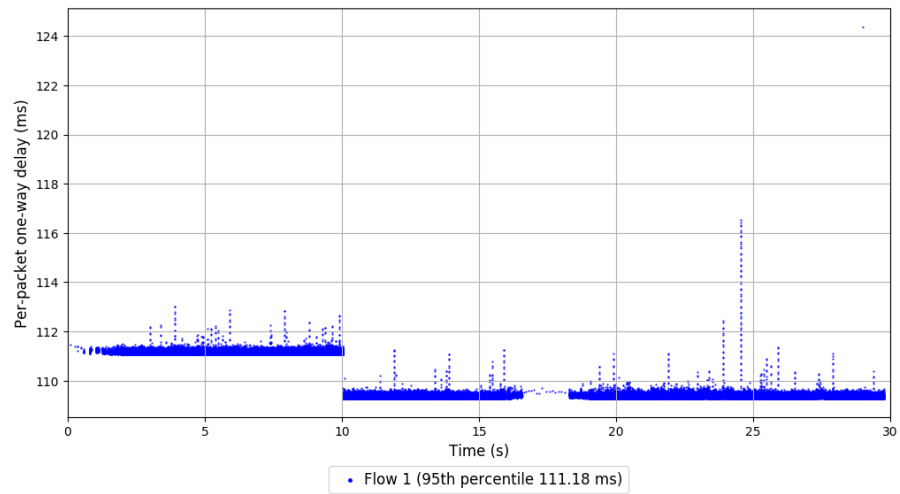
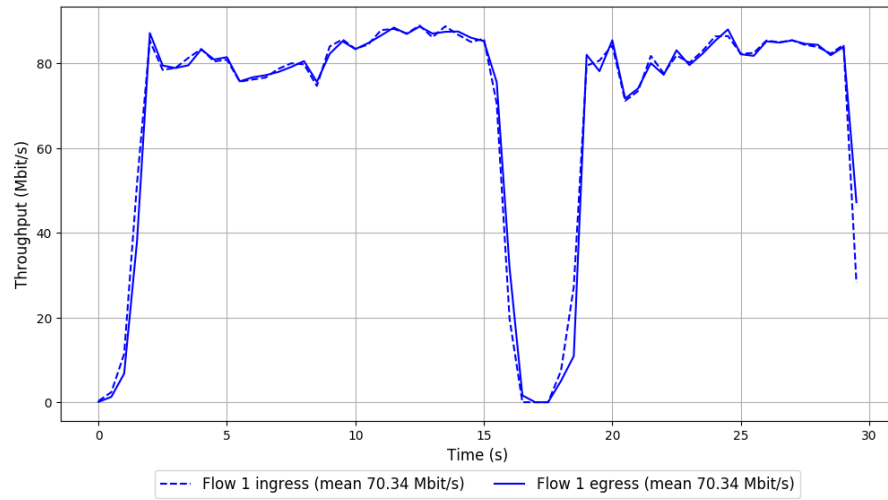
-- Flow 1:

Average throughput: 70.34 Mbit/s

95th percentile per-packet one-way delay: 111.180 ms

Loss rate: 0.00%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2017-11-15 23:28:42

End at: 2017-11-15 23:29:12

Below is generated by plot.py at 2017-11-16 00:57:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.40 Mbit/s

95th percentile per-packet one-way delay: 112.711 ms

Loss rate: 0.00%

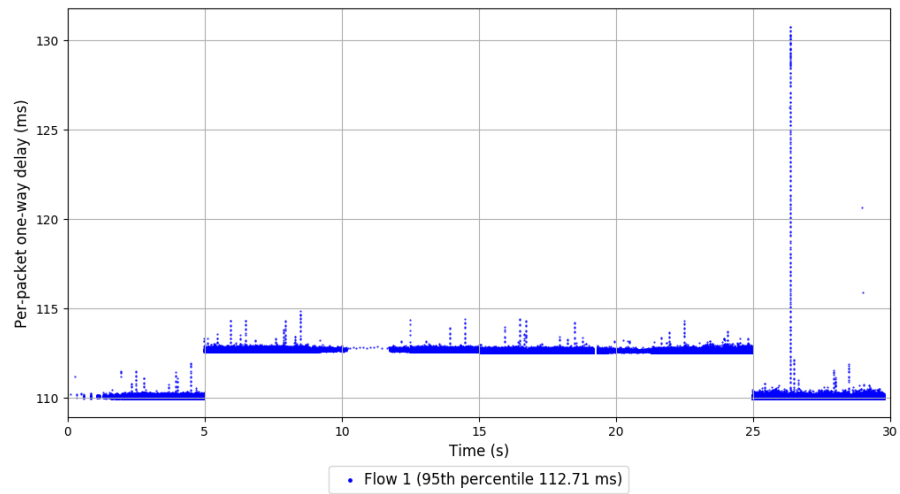
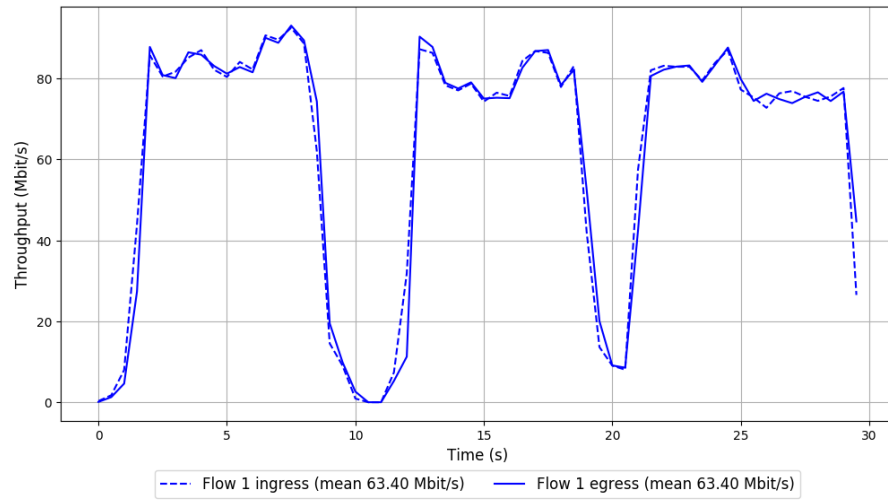
-- Flow 1:

Average throughput: 63.40 Mbit/s

95th percentile per-packet one-way delay: 112.711 ms

Loss rate: 0.00%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2017-11-15 23:39:44

End at: 2017-11-15 23:40:14

Below is generated by plot.py at 2017-11-16 00:57:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 61.07 Mbit/s

95th percentile per-packet one-way delay: 112.924 ms

Loss rate: 0.00%

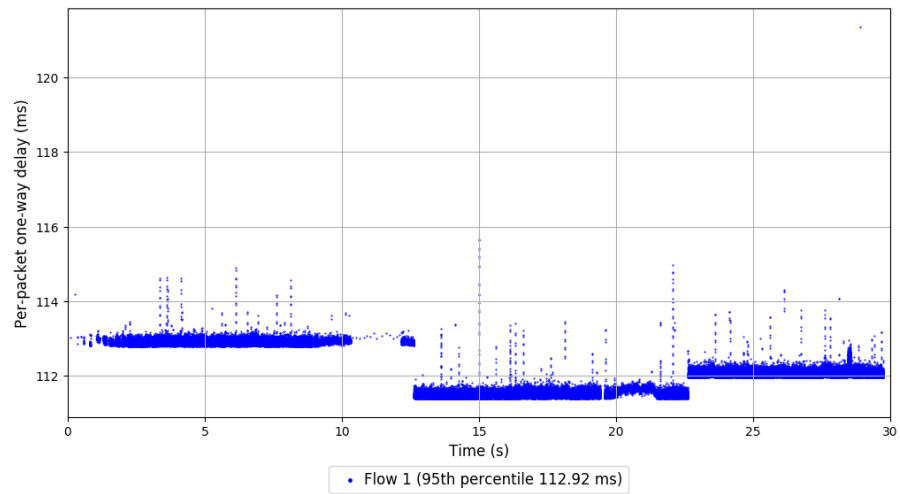
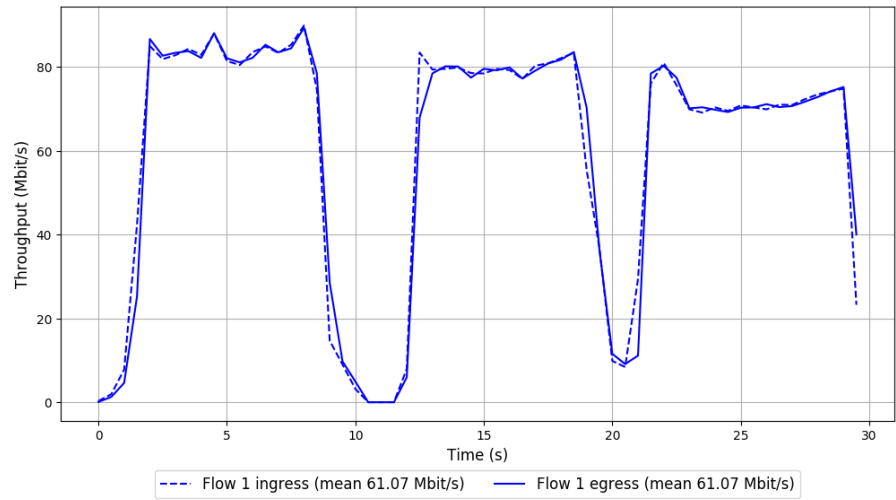
-- Flow 1:

Average throughput: 61.07 Mbit/s

95th percentile per-packet one-way delay: 112.924 ms

Loss rate: 0.00%

Run 9: Report of QUIC Cubic — Data Link

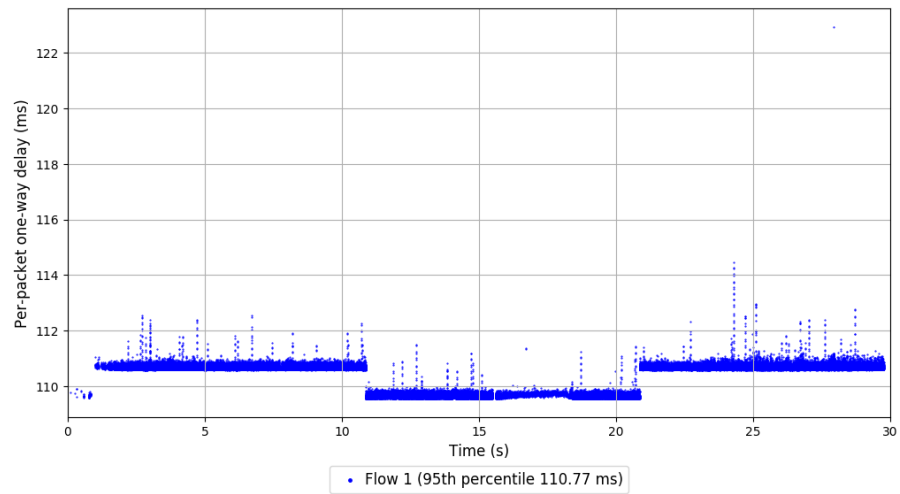
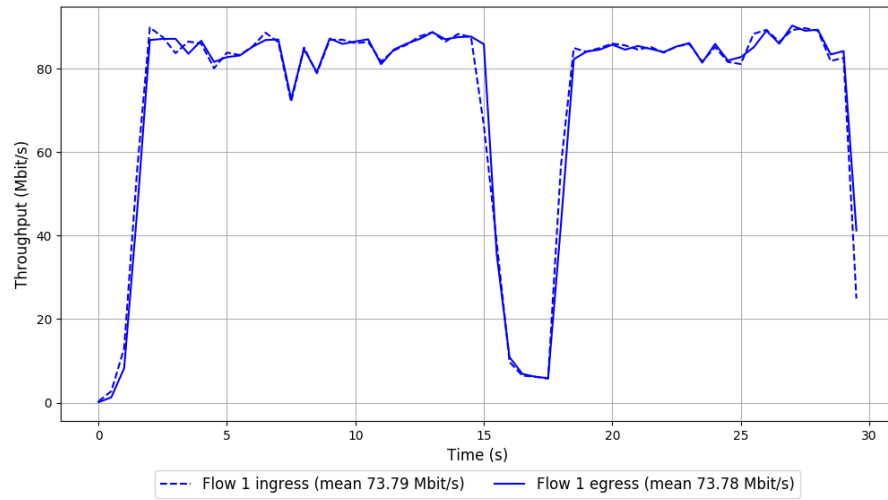


```
Run 10: Statistics of QUIC Cubic

Start at: 2017-11-15 23:50:53
End at: 2017-11-15 23:51:23

# Below is generated by plot.py at 2017-11-16 00:57:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 73.78 Mbit/s
95th percentile per-packet one-way delay: 110.774 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 73.78 Mbit/s
95th percentile per-packet one-way delay: 110.774 ms
Loss rate: 0.00%
```

Run 10: Report of QUIC Cubic — Data Link

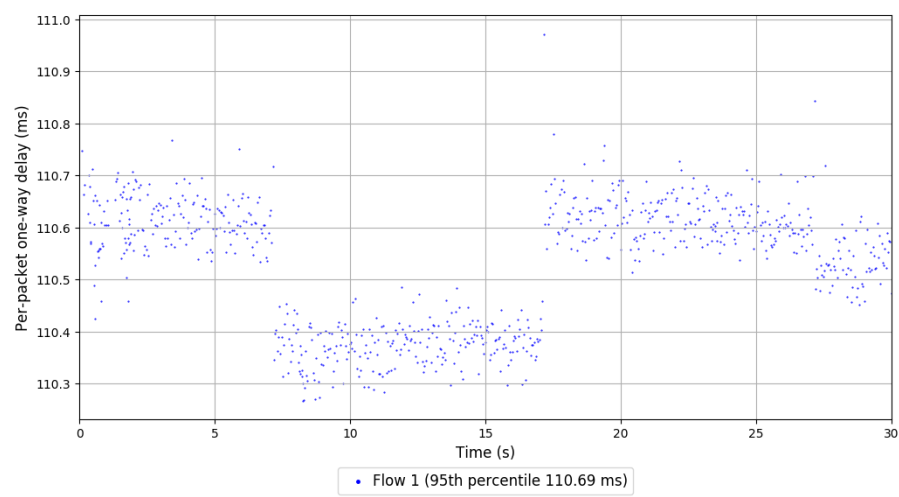
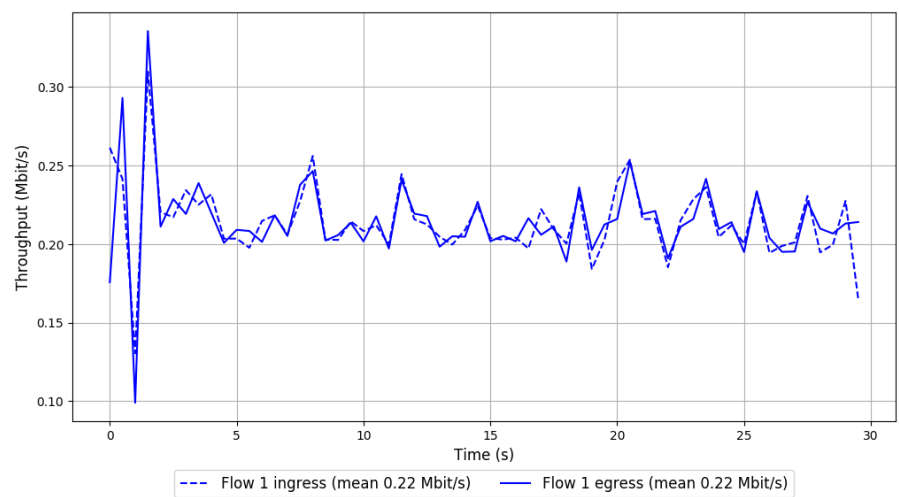


```
Run 1: Statistics of SCReAM

Start at: 2017-11-15 22:09:27
End at: 2017-11-15 22:09:57

# Below is generated by plot.py at 2017-11-16 00:57:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 110.686 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 110.686 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

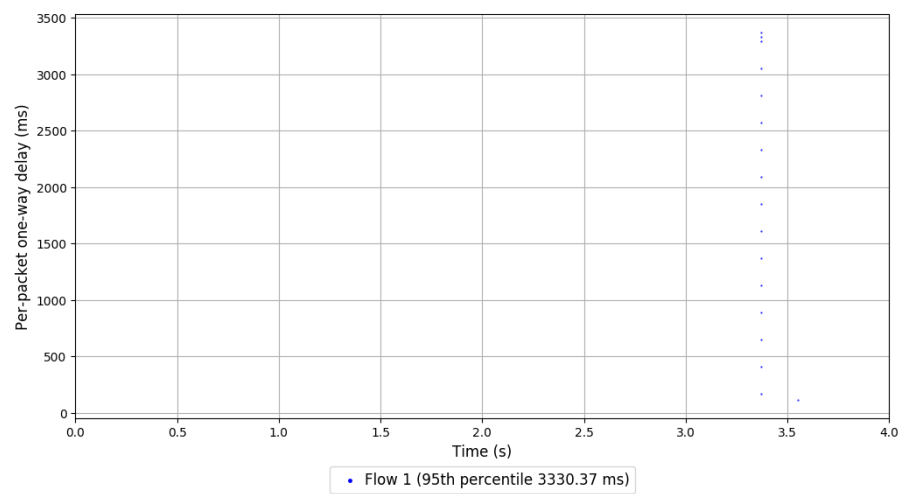
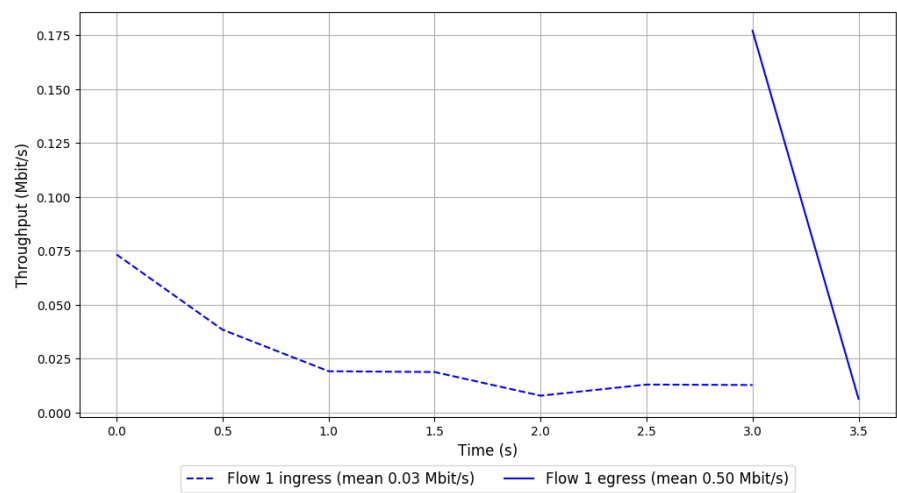


Run 2: Statistics of SReAM

Start at: 2017-11-15 22:20:09

End at: 2017-11-15 22:20:39

Run 2: Report of SReAM — Data Link

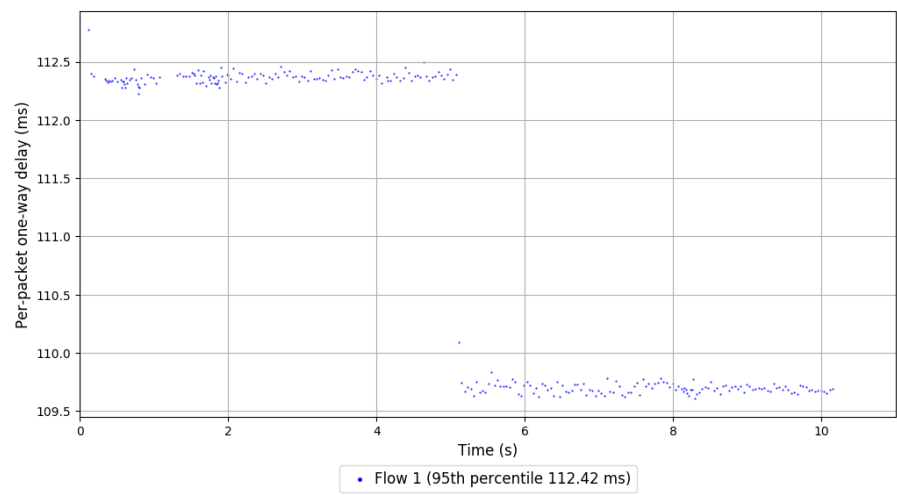
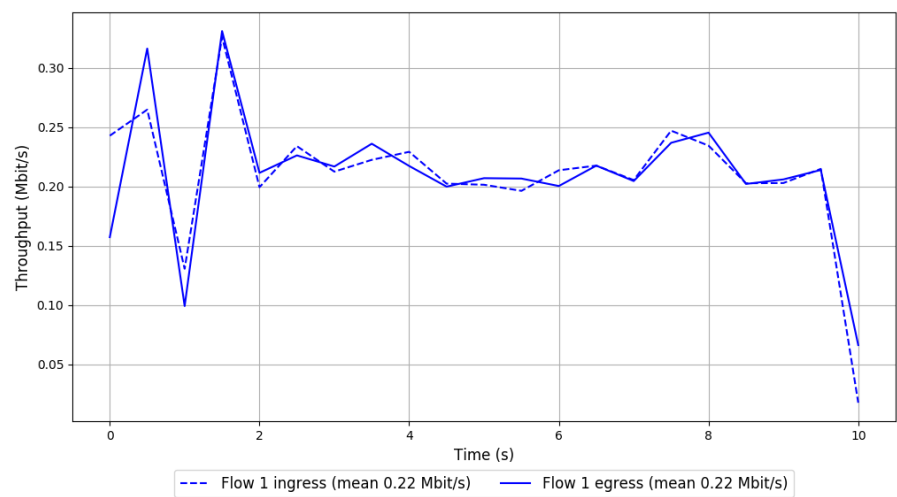


Run 3: Statistics of SReAM

Start at: 2017-11-15 22:31:20

End at: 2017-11-15 22:31:50

Run 3: Report of SReAM — Data Link

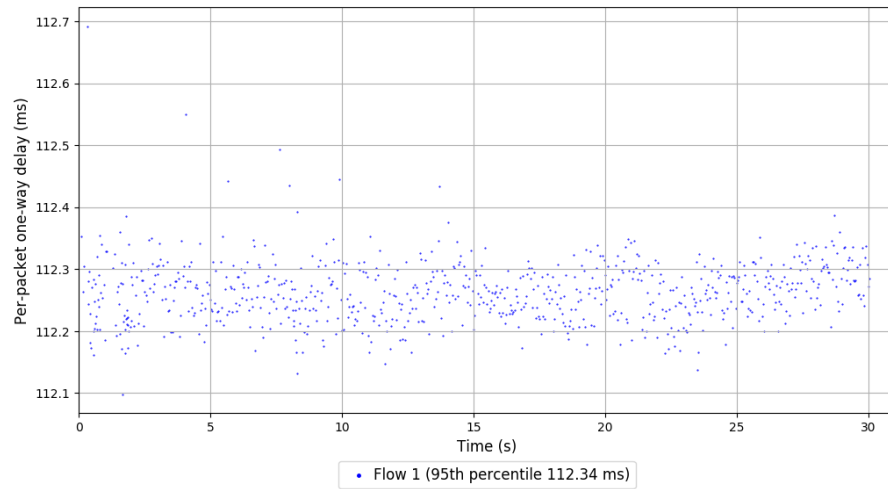
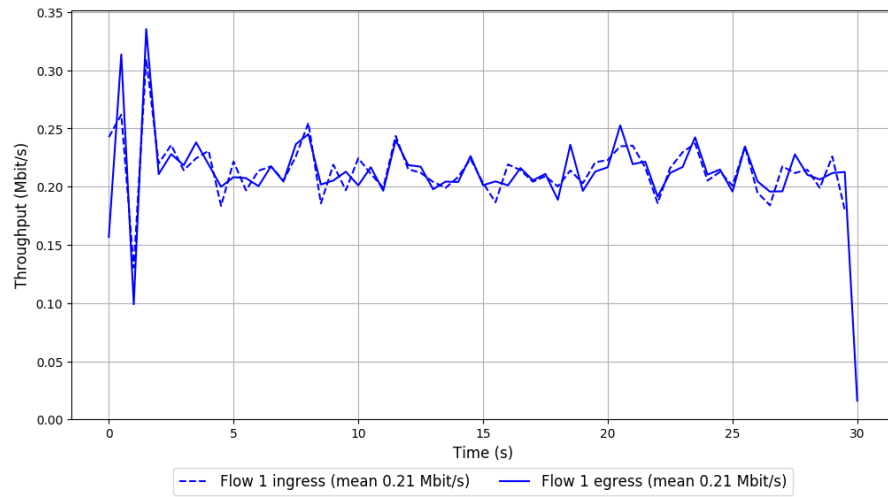


```
Run 4: Statistics of SCReAM

Start at: 2017-11-15 22:42:17
End at: 2017-11-15 22:42:47

# Below is generated by plot.py at 2017-11-16 00:57:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 112.337 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 112.337 ms
Loss rate: 0.00%
```

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2017-11-15 22:53:25

End at: 2017-11-15 22:53:55

Below is generated by plot.py at 2017-11-16 00:57:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.11 Mbit/s

95th percentile per-packet one-way delay: 112.671 ms

Loss rate: 0.00%

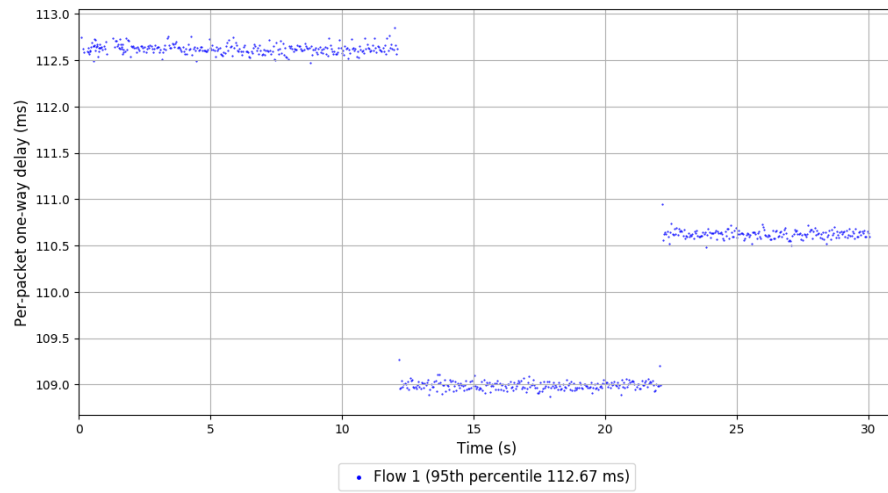
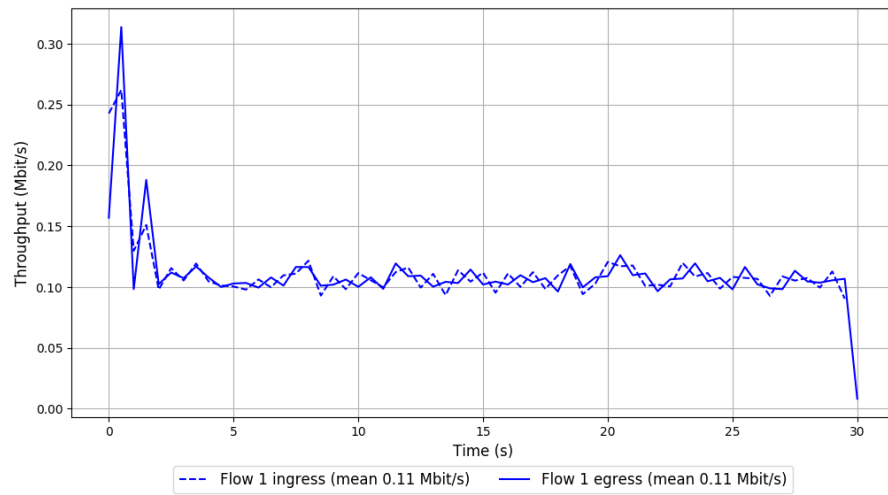
-- Flow 1:

Average throughput: 0.11 Mbit/s

95th percentile per-packet one-way delay: 112.671 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2017-11-15 23:04:24

End at: 2017-11-15 23:04:54

Below is generated by plot.py at 2017-11-16 00:57:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 111.302 ms

Loss rate: 0.00%

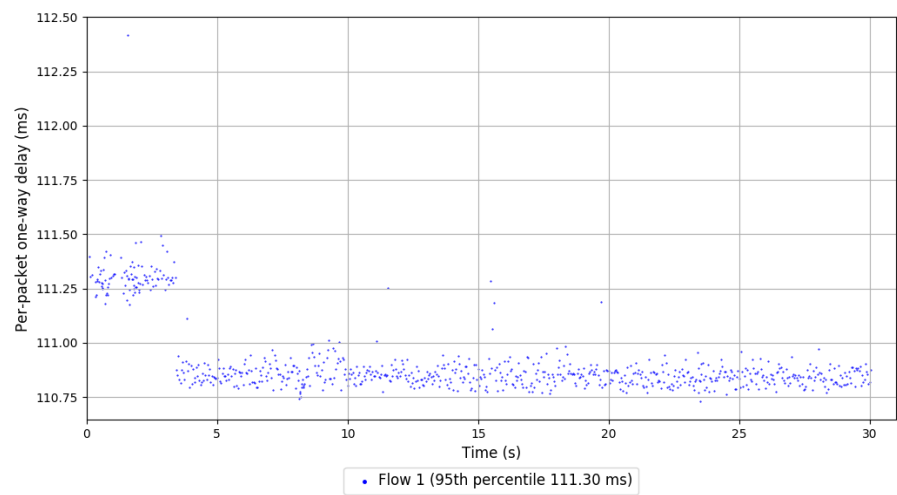
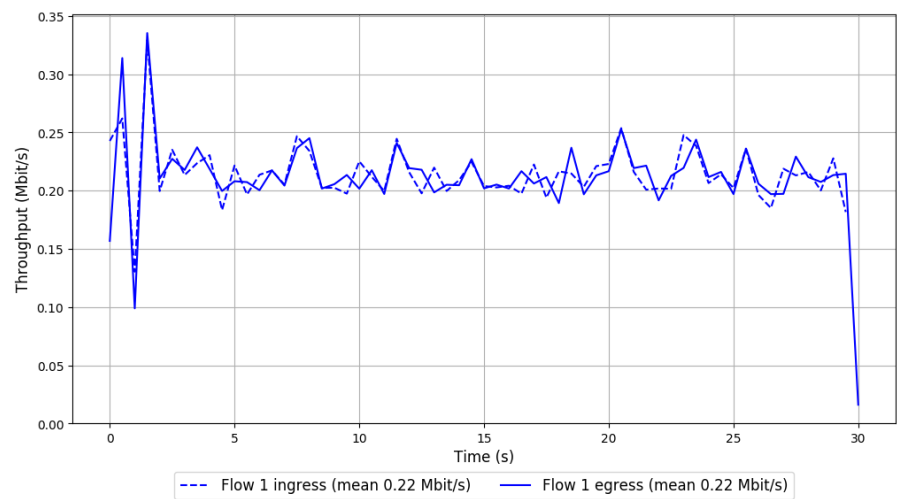
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 111.302 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2017-11-15 23:15:31

End at: 2017-11-15 23:16:01

Below is generated by plot.py at 2017-11-16 00:57:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 111.436 ms

Loss rate: 0.00%

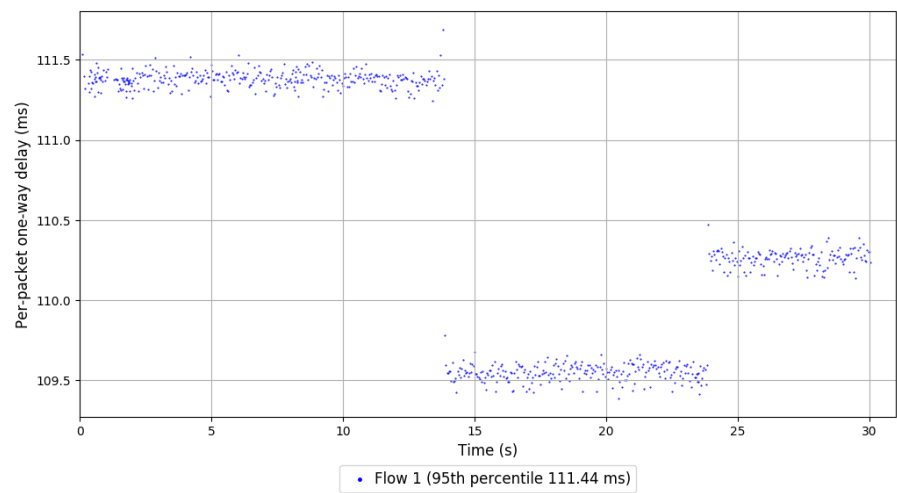
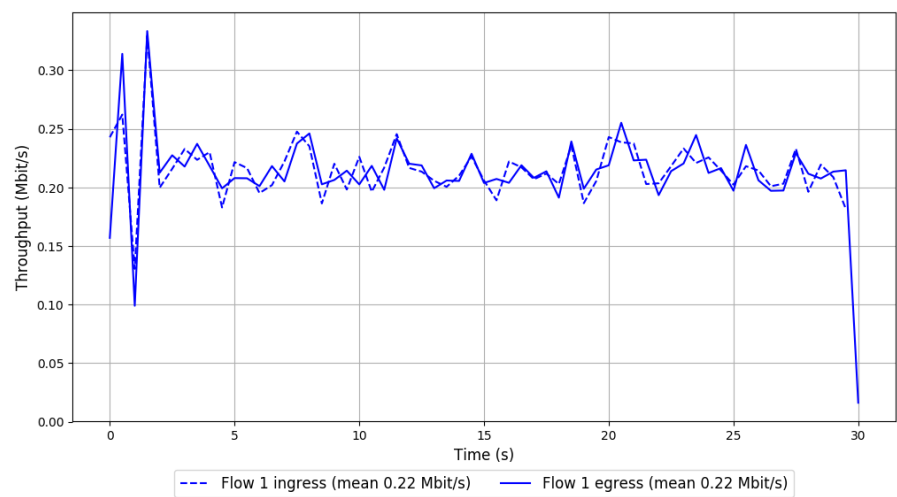
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 111.436 ms

Loss rate: 0.00%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2017-11-15 23:26:28

End at: 2017-11-15 23:26:58

Below is generated by plot.py at 2017-11-16 00:57:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 112.952 ms

Loss rate: 0.00%

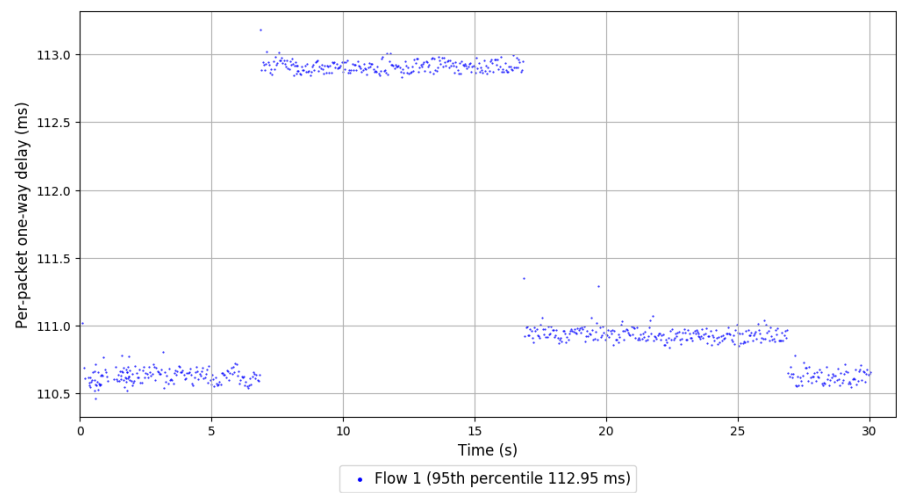
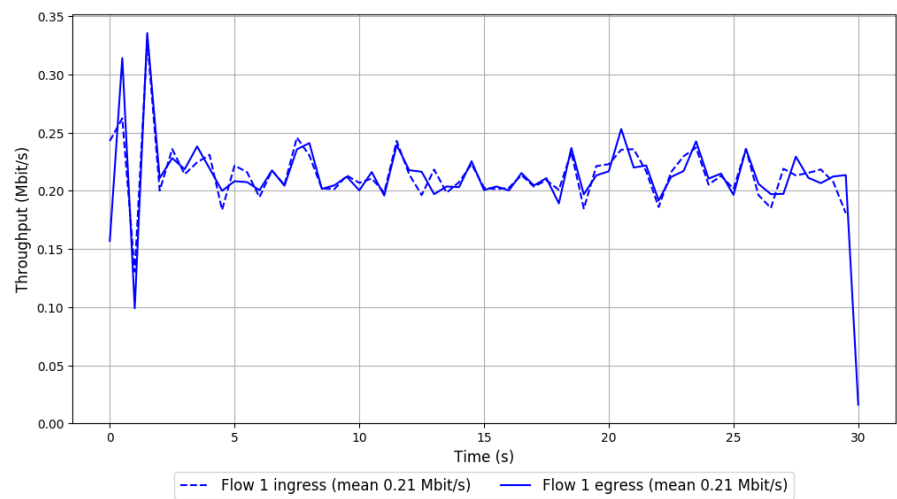
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 112.952 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2017-11-15 23:37:30

End at: 2017-11-15 23:38:00

Below is generated by plot.py at 2017-11-16 00:57:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 111.873 ms

Loss rate: 0.00%

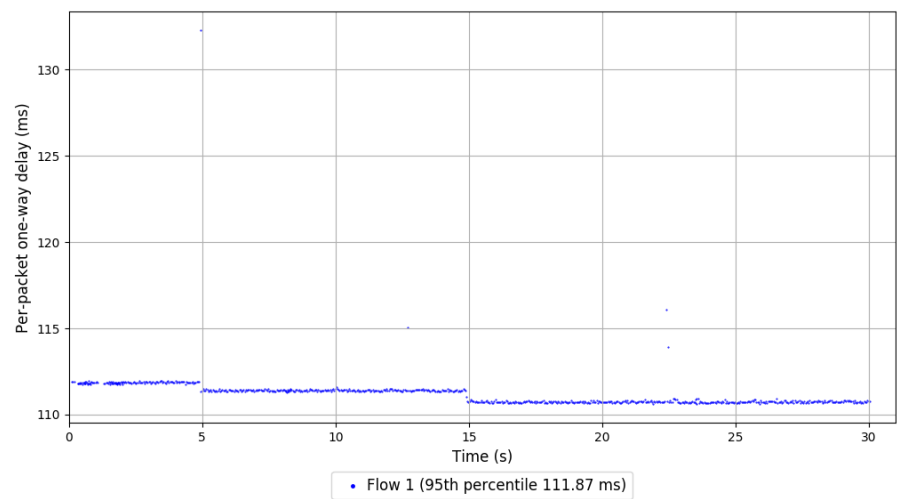
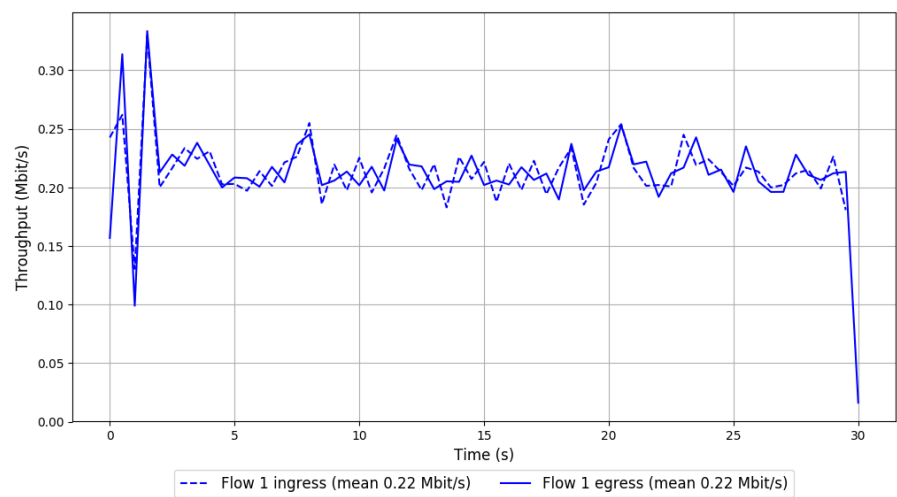
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 111.873 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2017-11-15 23:48:40

End at: 2017-11-15 23:49:10

Below is generated by plot.py at 2017-11-16 00:57:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 113.129 ms

Loss rate: 0.00%

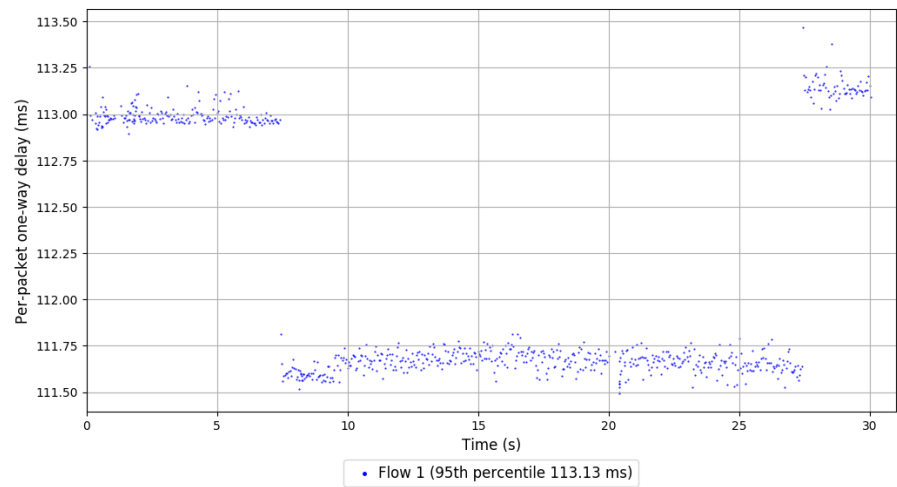
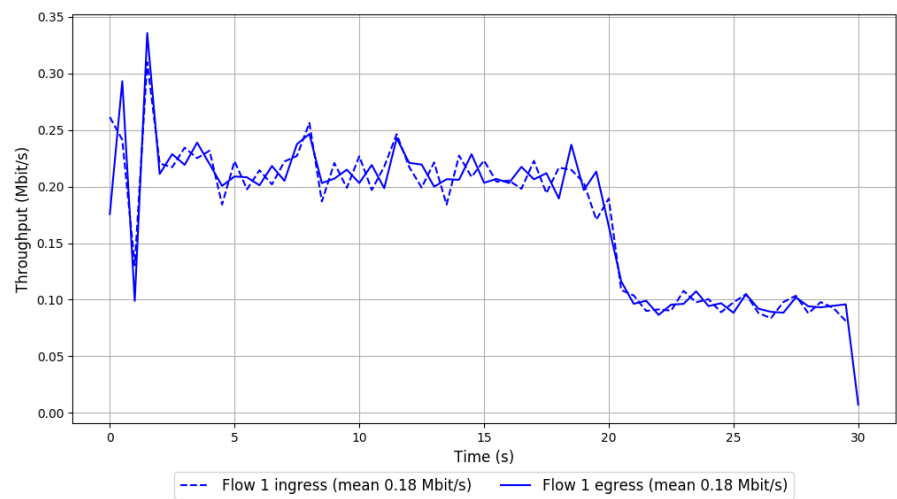
-- Flow 1:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 113.129 ms

Loss rate: 0.00%

Run 10: Report of SReAM — Data Link

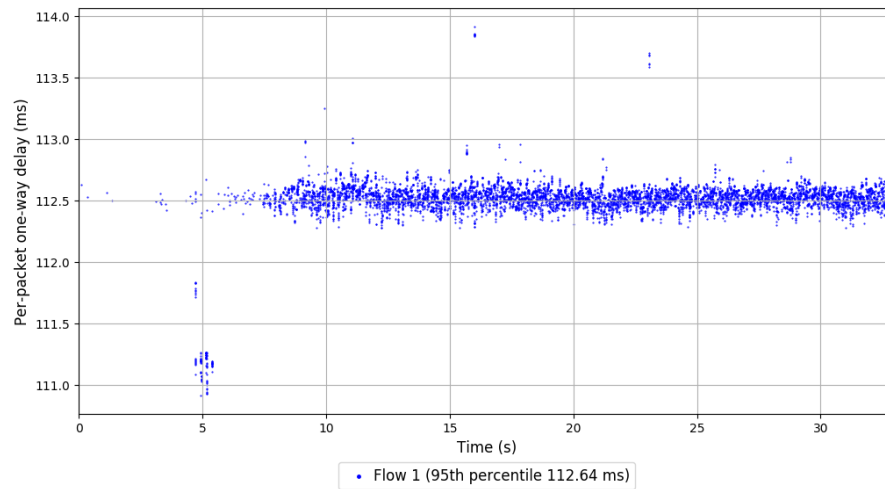
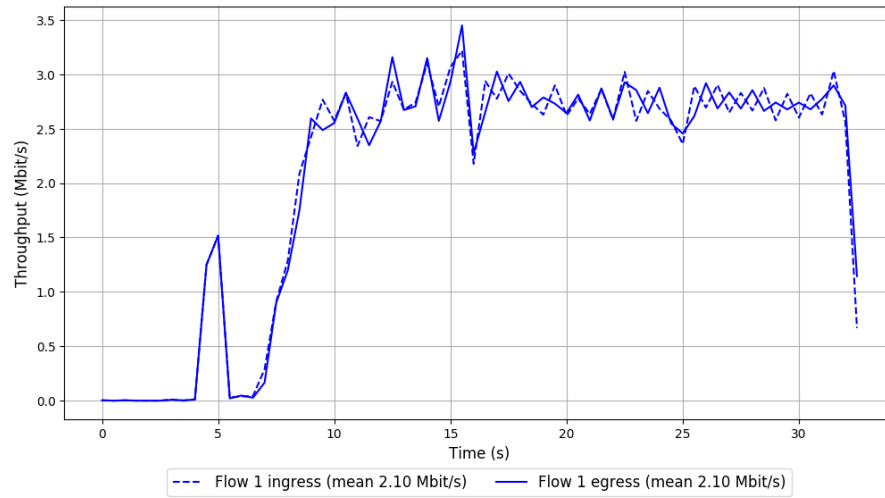


```
Run 1: Statistics of WebRTC media

Start at: 2017-11-15 22:13:54
End at: 2017-11-15 22:14:24

# Below is generated by plot.py at 2017-11-16 00:57:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.10 Mbit/s
95th percentile per-packet one-way delay: 112.645 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.10 Mbit/s
95th percentile per-packet one-way delay: 112.645 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2017-11-15 22:24:41

End at: 2017-11-15 22:25:11

Below is generated by plot.py at 2017-11-16 00:57:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 112.859 ms

Loss rate: 0.00%

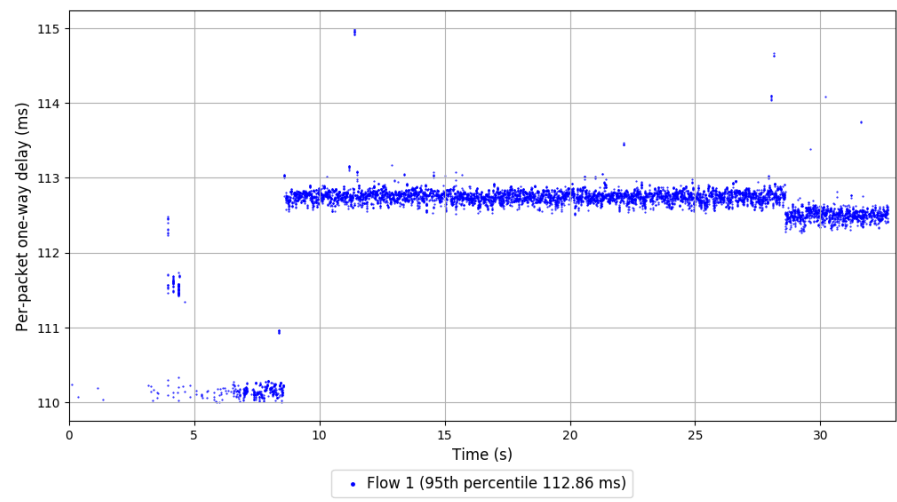
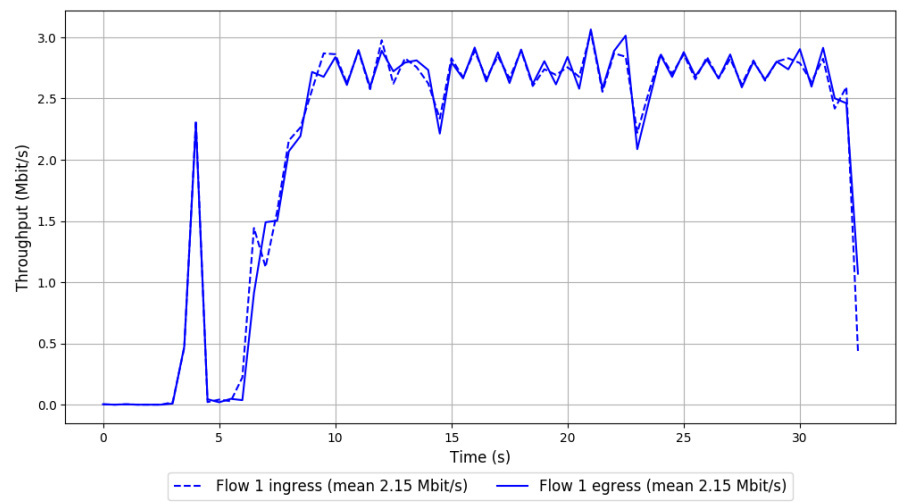
-- Flow 1:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 112.859 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2017-11-15 22:35:51

End at: 2017-11-15 22:36:21

Below is generated by plot.py at 2017-11-16 00:57:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 111.313 ms

Loss rate: 0.00%

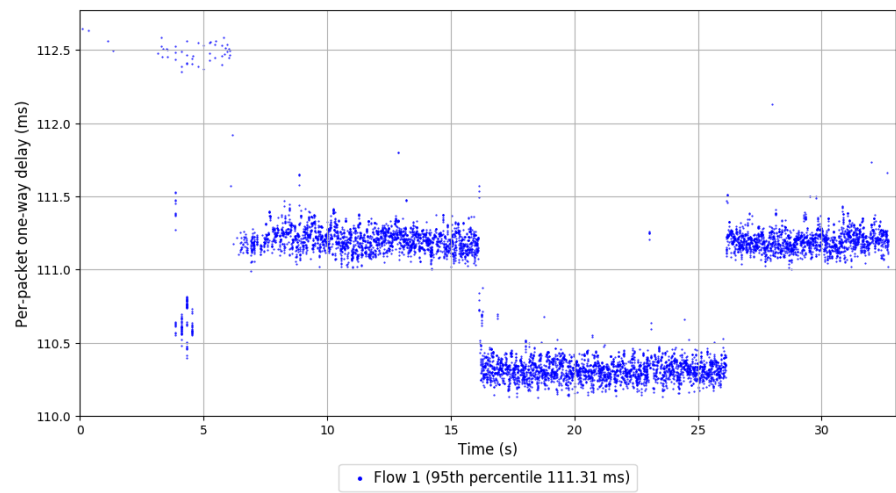
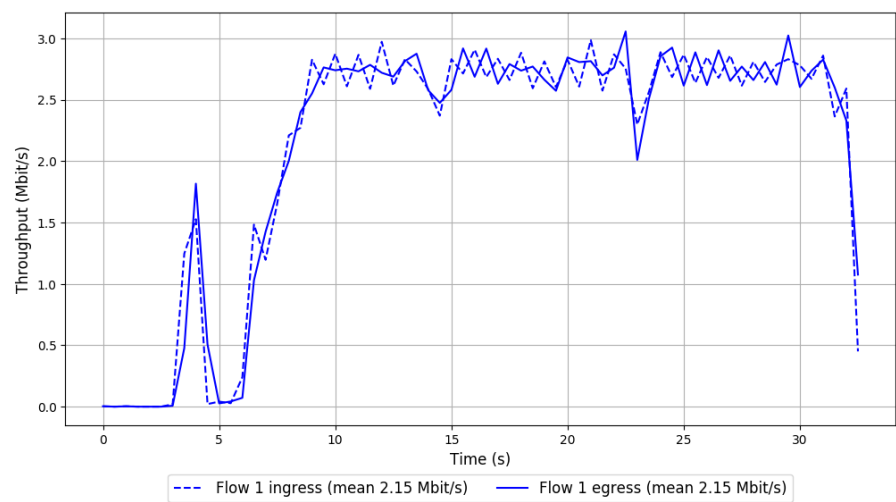
-- Flow 1:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 111.313 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2017-11-15 22:46:49

End at: 2017-11-15 22:47:19

Below is generated by plot.py at 2017-11-16 00:57:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 112.378 ms

Loss rate: 0.00%

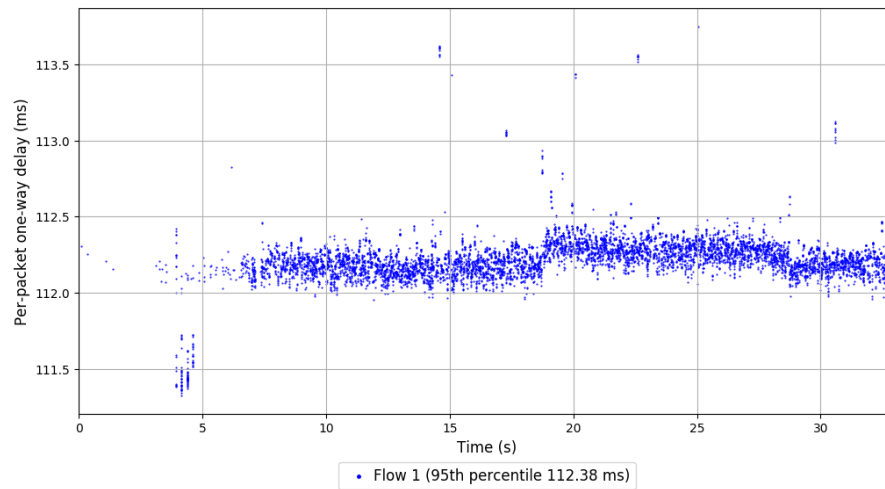
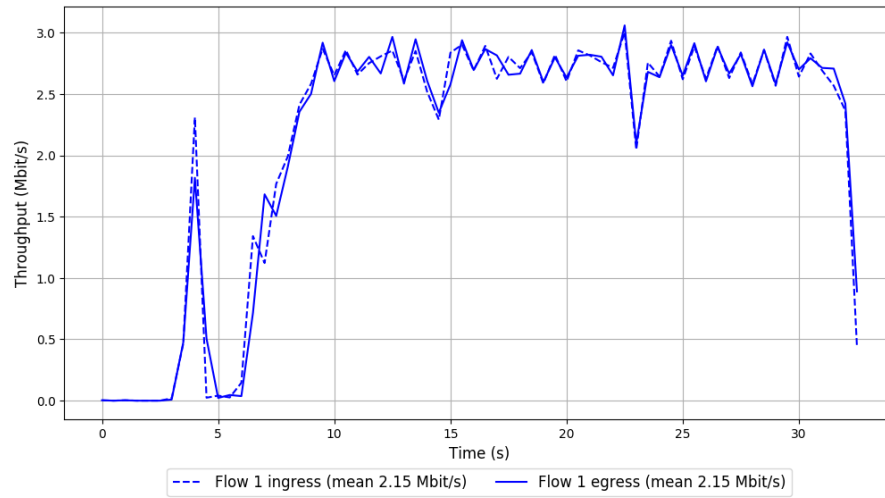
-- Flow 1:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 112.378 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2017-11-15 22:57:57

End at: 2017-11-15 22:58:27

Below is generated by plot.py at 2017-11-16 00:57:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 111.310 ms

Loss rate: 0.00%

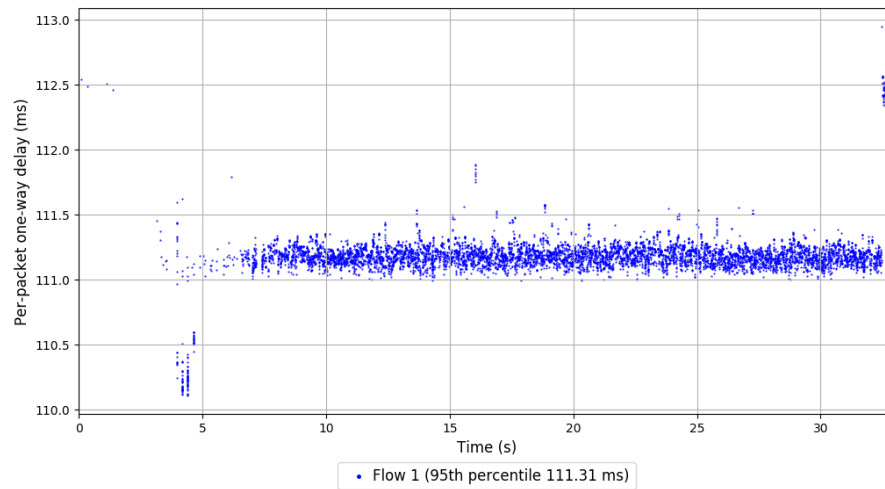
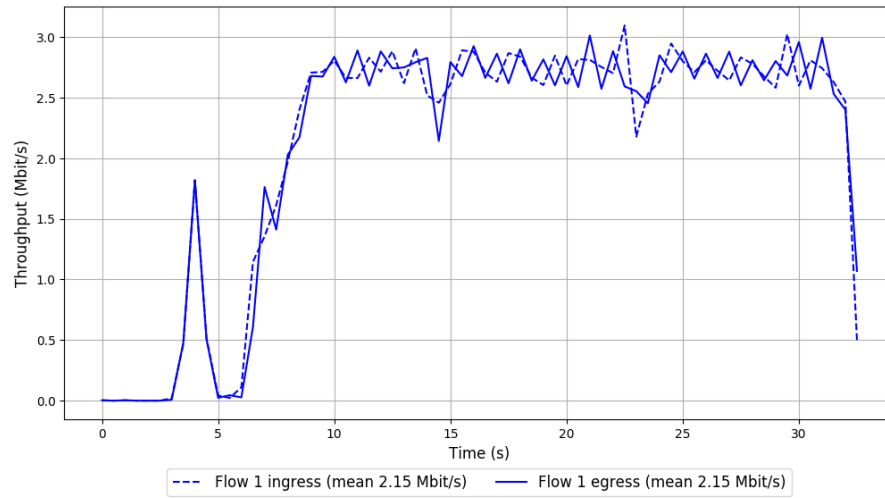
-- Flow 1:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 111.310 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2017-11-15 23:08:57

End at: 2017-11-15 23:09:27

Below is generated by plot.py at 2017-11-16 00:57:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 112.401 ms

Loss rate: 0.00%

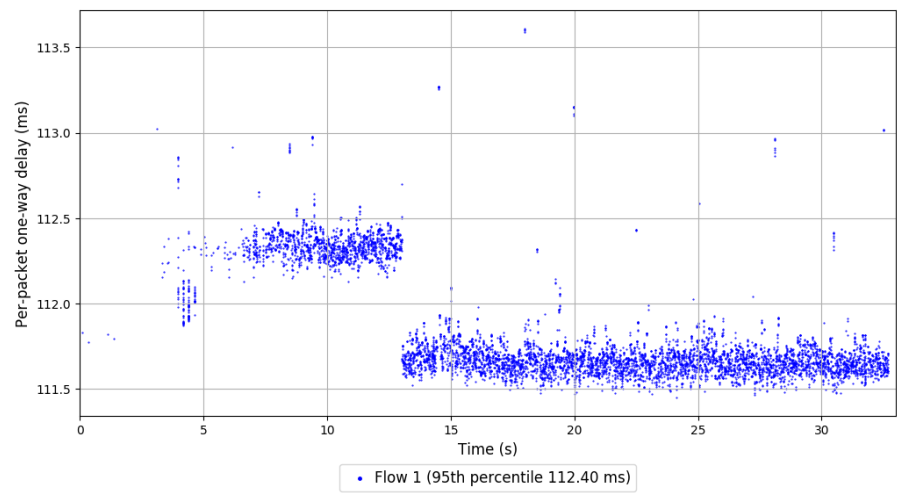
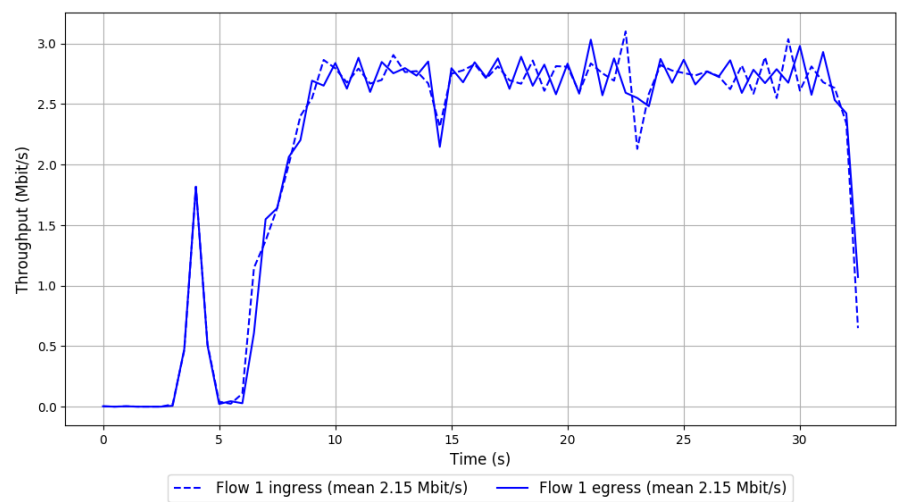
-- Flow 1:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 112.401 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2017-11-15 23:20:01

End at: 2017-11-15 23:20:31

Below is generated by plot.py at 2017-11-16 00:57:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 111.905 ms

Loss rate: 0.00%

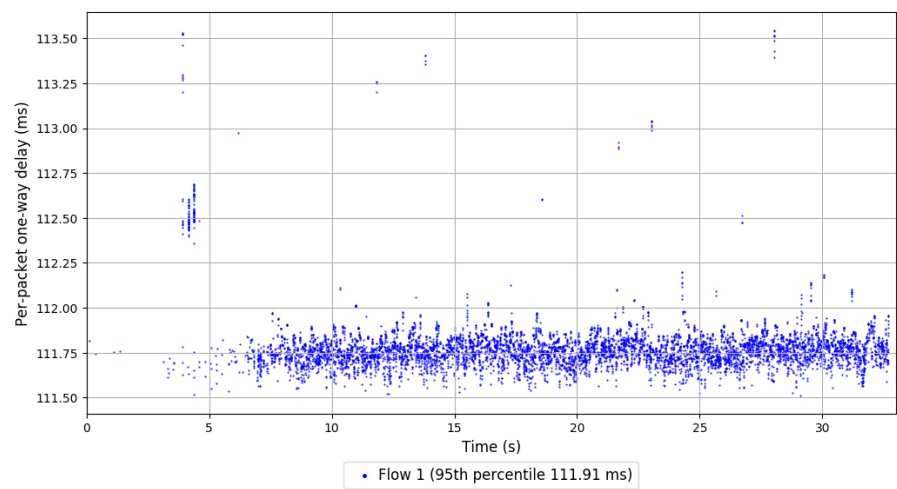
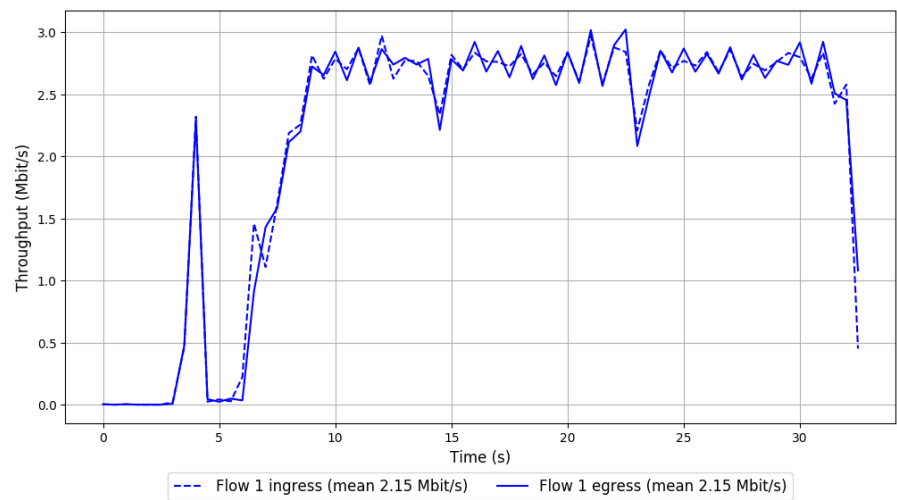
-- Flow 1:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 111.905 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2017-11-15 23:30:59

End at: 2017-11-15 23:31:29

Below is generated by plot.py at 2017-11-16 00:57:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 113.026 ms

Loss rate: 0.00%

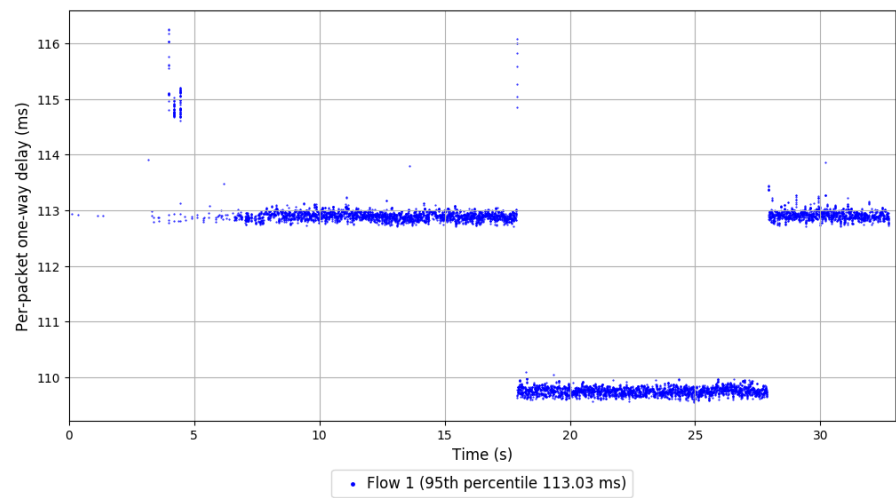
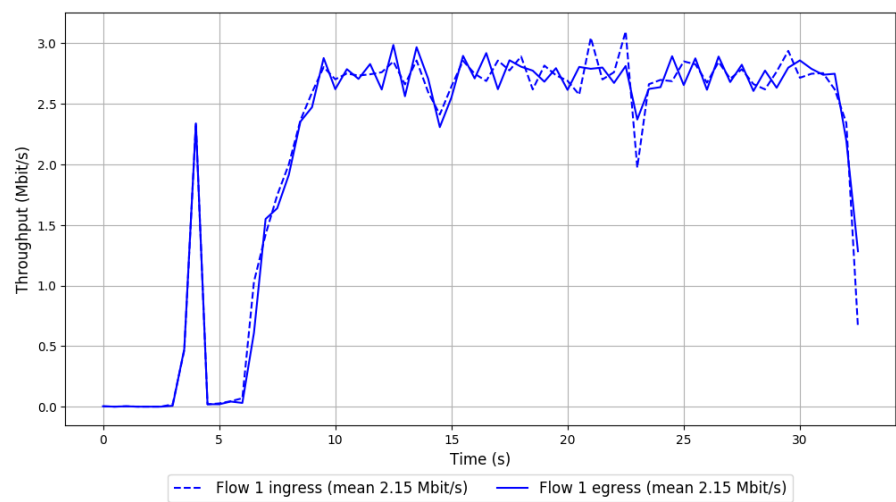
-- Flow 1:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 113.026 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2017-11-15 23:42:03

End at: 2017-11-15 23:42:33

Below is generated by plot.py at 2017-11-16 00:57:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.14 Mbit/s

95th percentile per-packet one-way delay: 112.348 ms

Loss rate: 0.00%

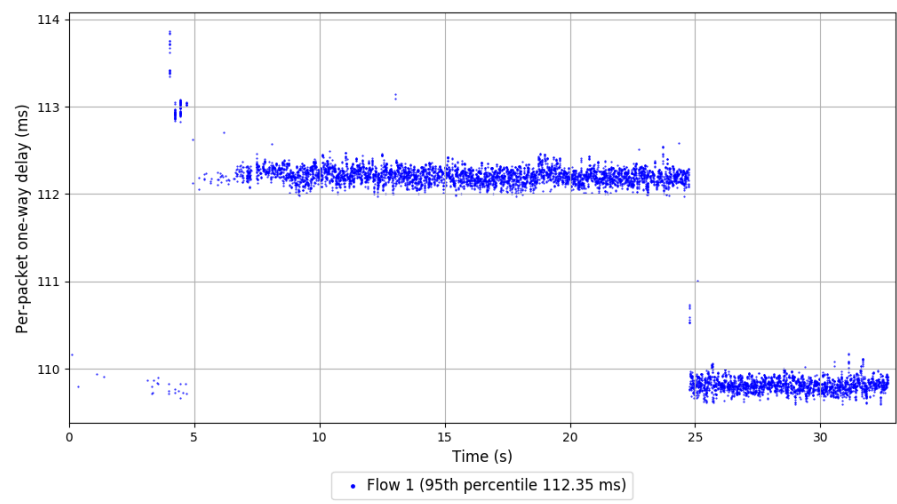
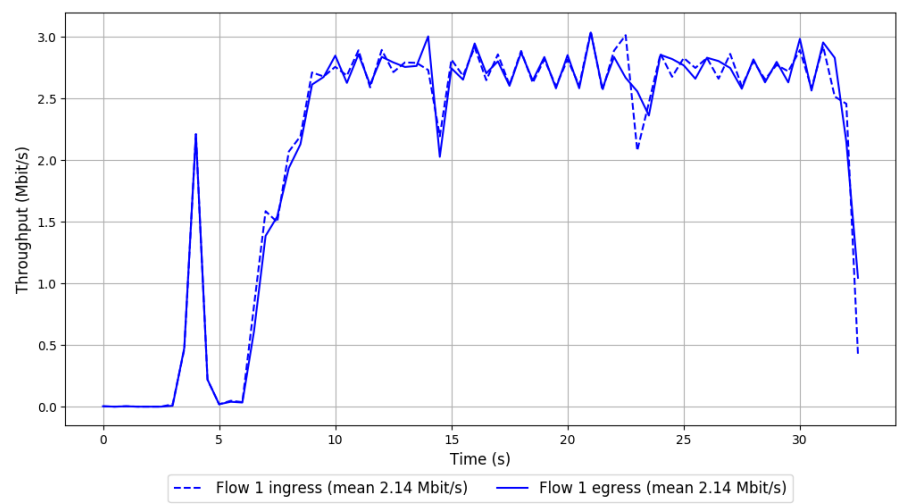
-- Flow 1:

Average throughput: 2.14 Mbit/s

95th percentile per-packet one-way delay: 112.348 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2017-11-15 23:53:13

End at: 2017-11-15 23:53:43

Below is generated by plot.py at 2017-11-16 00:57:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 109.776 ms

Loss rate: 0.00%

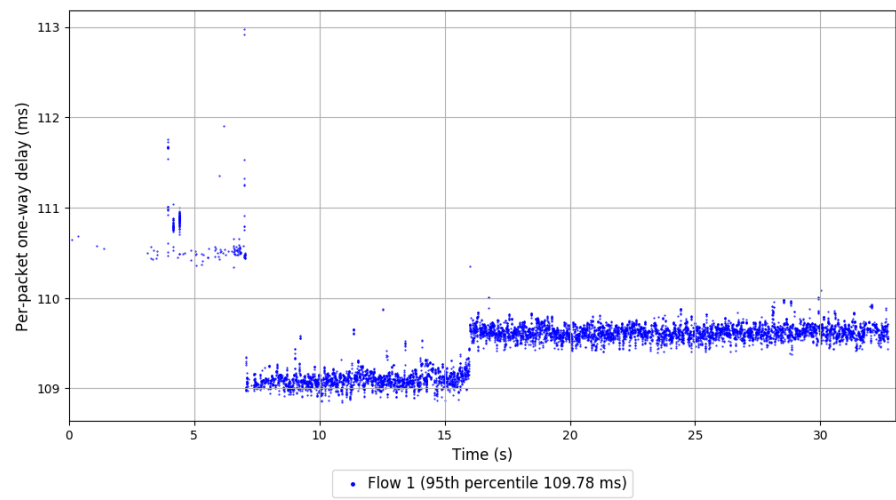
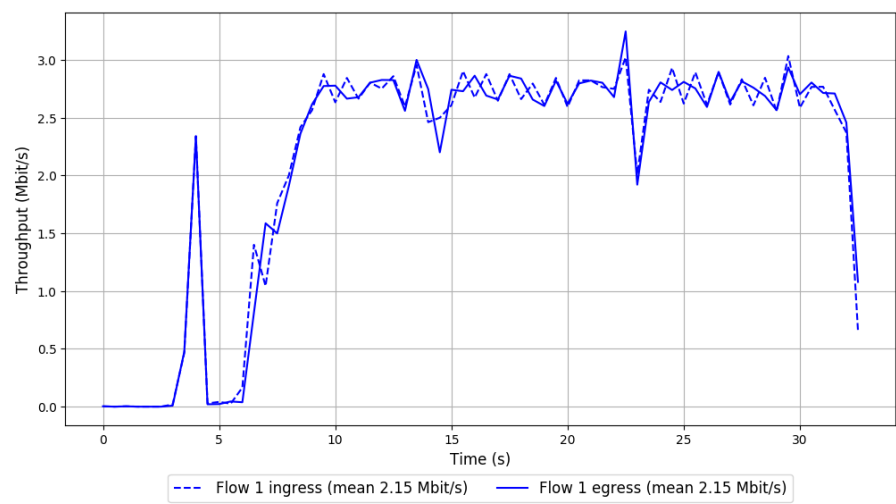
-- Flow 1:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 109.776 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2017-11-15 22:17:06

End at: 2017-11-15 22:17:36

Below is generated by plot.py at 2017-11-16 00:57:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.35 Mbit/s

95th percentile per-packet one-way delay: 112.663 ms

Loss rate: 0.27%

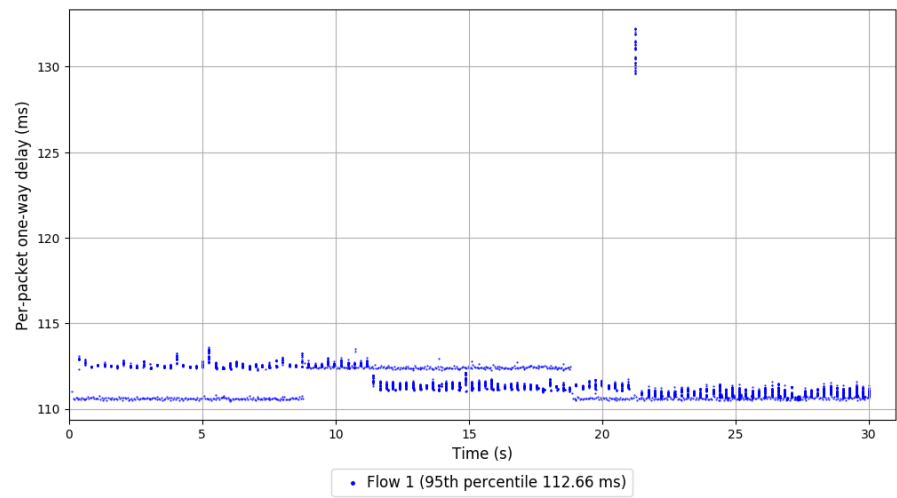
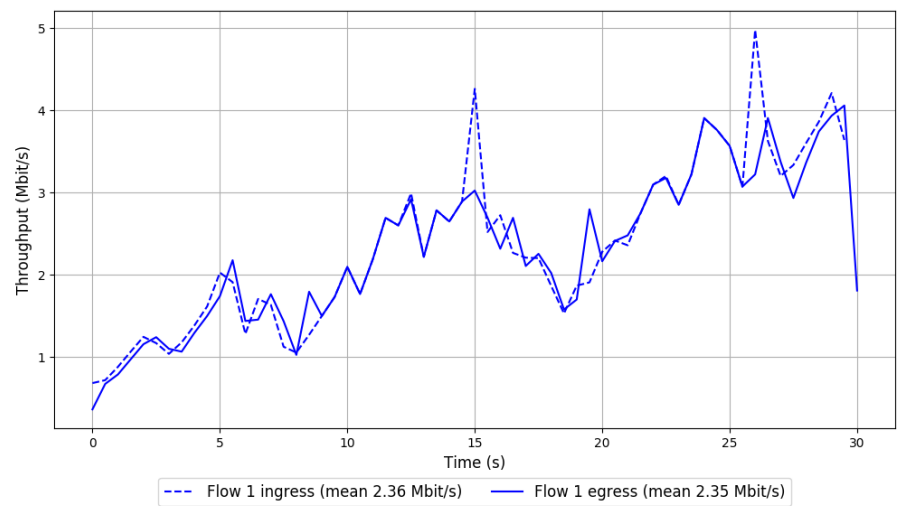
-- Flow 1:

Average throughput: 2.35 Mbit/s

95th percentile per-packet one-way delay: 112.663 ms

Loss rate: 0.27%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2017-11-15 22:27:55

End at: 2017-11-15 22:28:25

Below is generated by plot.py at 2017-11-16 00:57:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.54 Mbit/s

95th percentile per-packet one-way delay: 112.625 ms

Loss rate: 0.51%

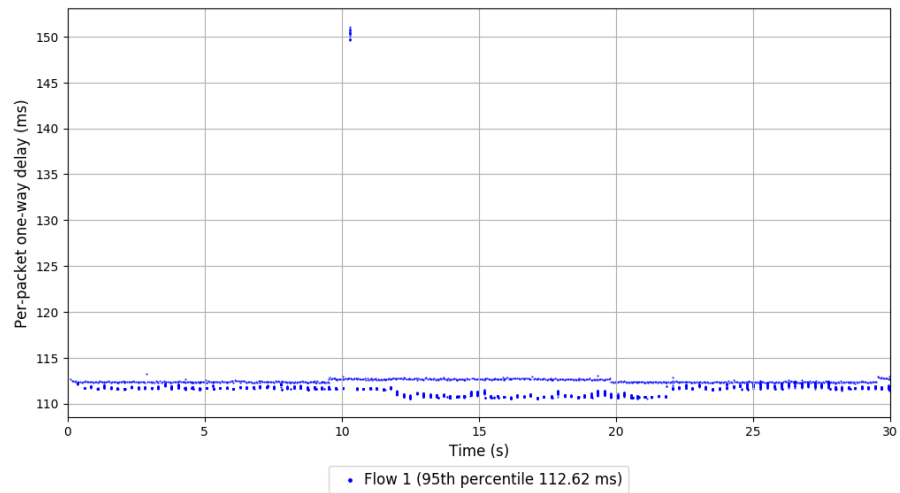
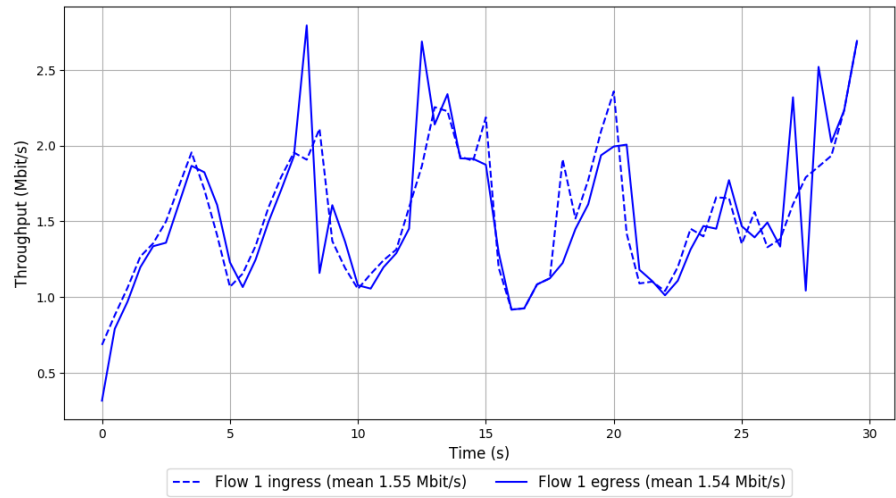
-- Flow 1:

Average throughput: 1.54 Mbit/s

95th percentile per-packet one-way delay: 112.625 ms

Loss rate: 0.51%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2017-11-15 22:39:05

End at: 2017-11-15 22:39:35

Below is generated by plot.py at 2017-11-16 00:57:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.96 Mbit/s

95th percentile per-packet one-way delay: 112.515 ms

Loss rate: 2.00%

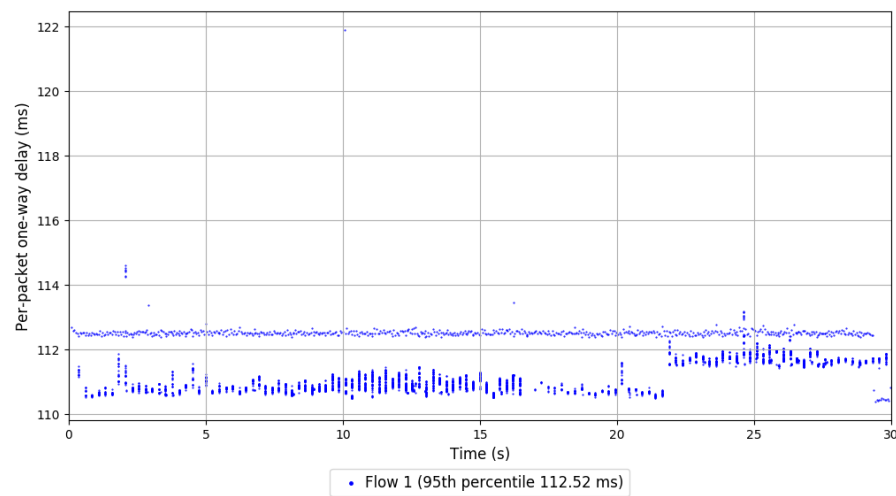
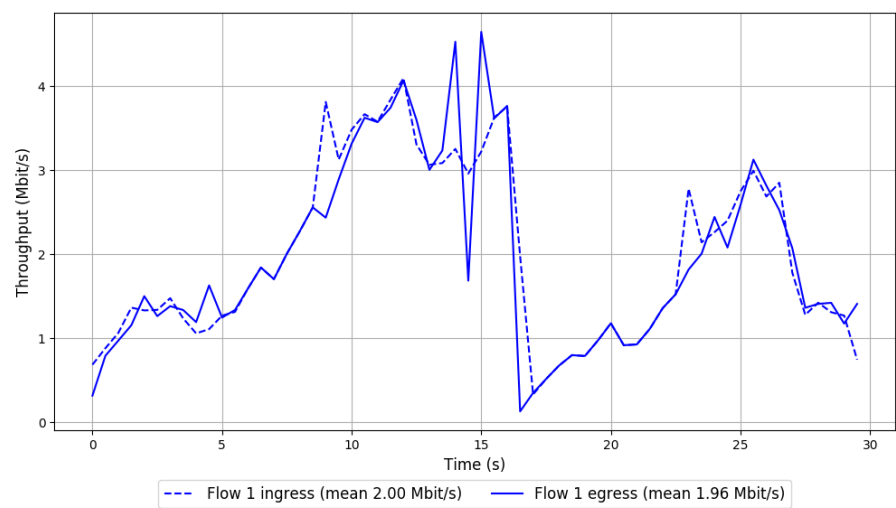
-- Flow 1:

Average throughput: 1.96 Mbit/s

95th percentile per-packet one-way delay: 112.515 ms

Loss rate: 2.00%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2017-11-15 22:49:58

End at: 2017-11-15 22:50:28

Below is generated by plot.py at 2017-11-16 00:57:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.60 Mbit/s

95th percentile per-packet one-way delay: 112.357 ms

Loss rate: 1.50%

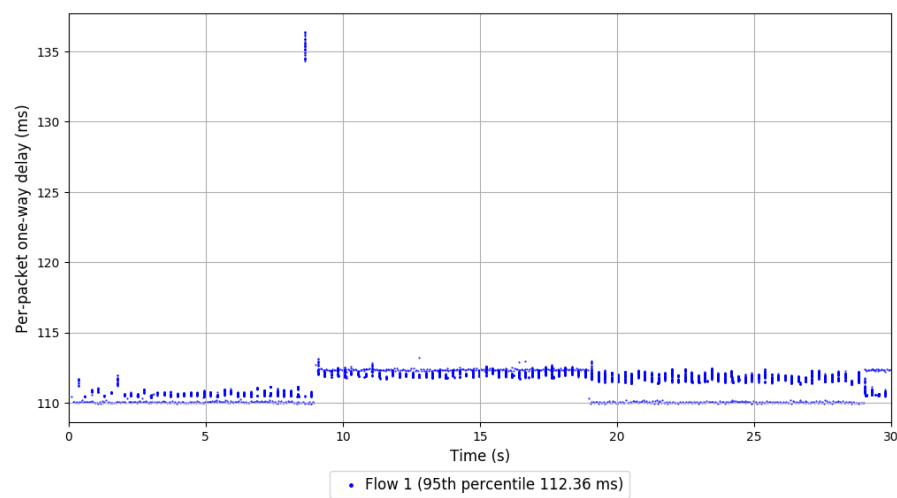
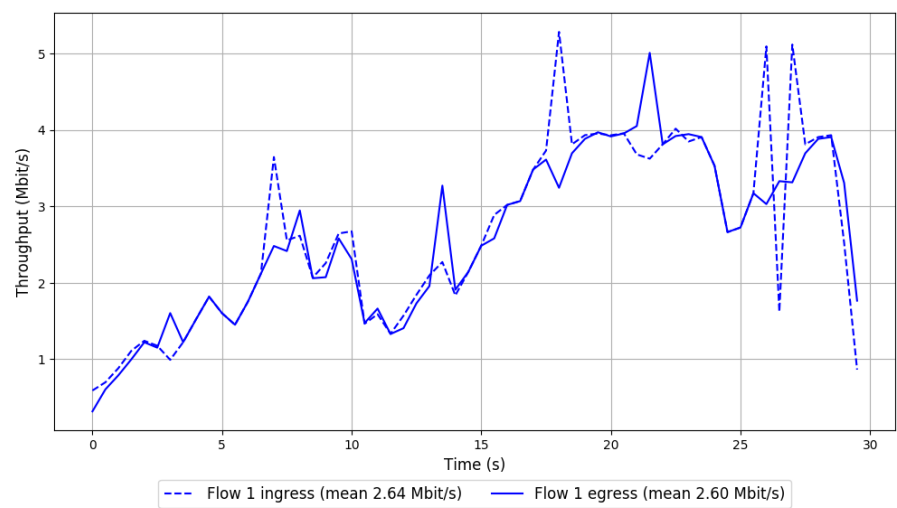
-- Flow 1:

Average throughput: 2.60 Mbit/s

95th percentile per-packet one-way delay: 112.357 ms

Loss rate: 1.50%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2017-11-15 23:01:07

End at: 2017-11-15 23:01:37

Below is generated by plot.py at 2017-11-16 00:57:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: 112.525 ms

Loss rate: 0.98%

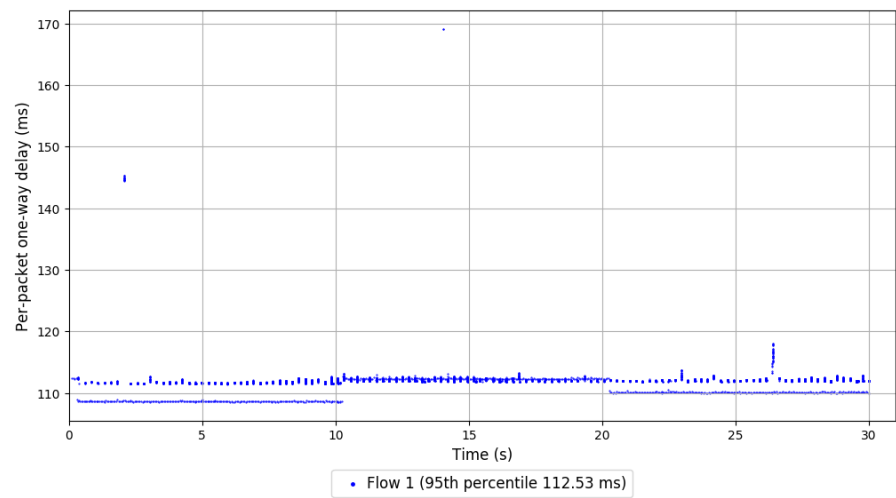
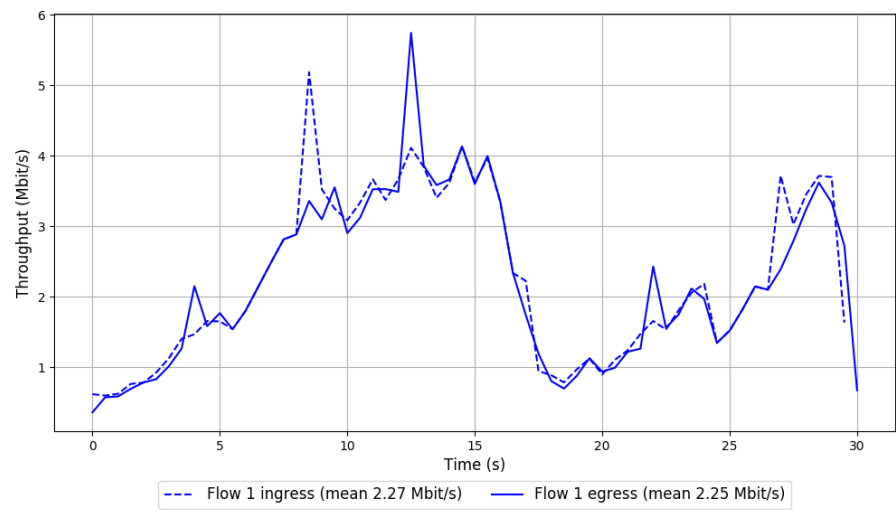
-- Flow 1:

Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: 112.525 ms

Loss rate: 0.98%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2017-11-15 23:12:14

End at: 2017-11-15 23:12:44

Below is generated by plot.py at 2017-11-16 00:57:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.58 Mbit/s

95th percentile per-packet one-way delay: 113.205 ms

Loss rate: 0.17%

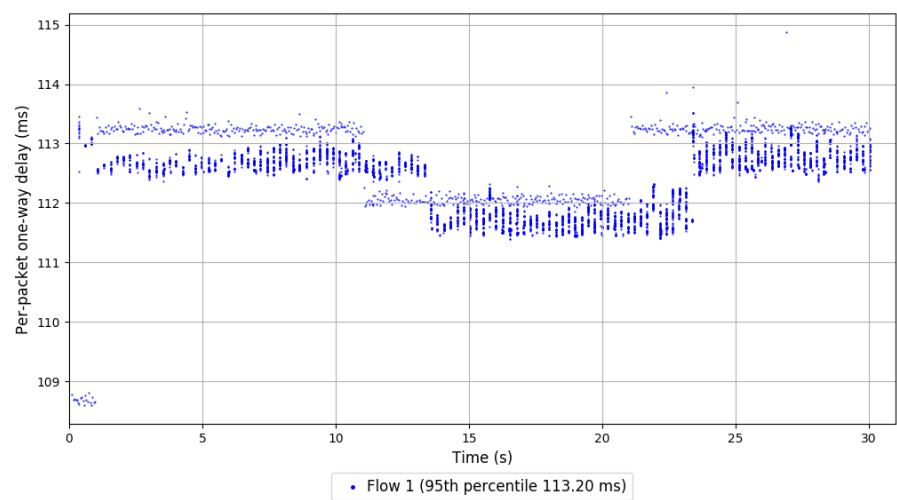
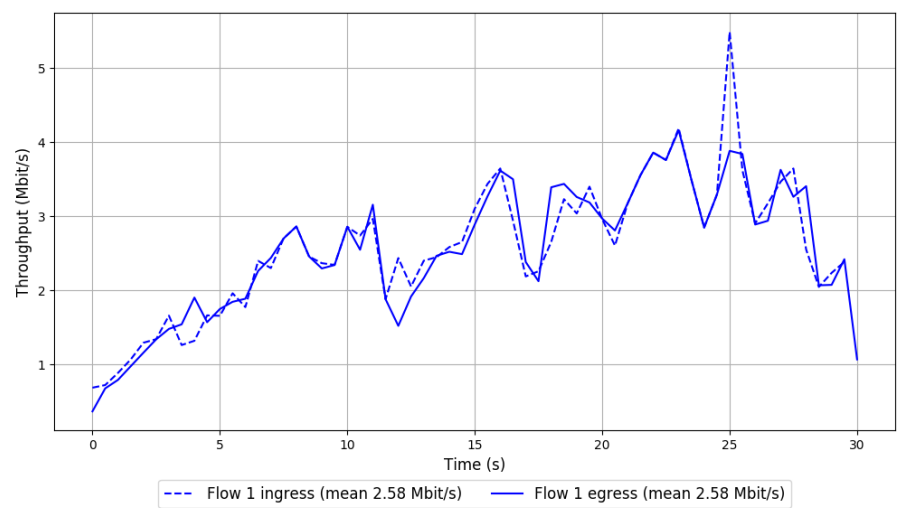
-- Flow 1:

Average throughput: 2.58 Mbit/s

95th percentile per-packet one-way delay: 113.205 ms

Loss rate: 0.17%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2017-11-15 23:23:13

End at: 2017-11-15 23:23:43

Below is generated by plot.py at 2017-11-16 00:57:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.56 Mbit/s

95th percentile per-packet one-way delay: 113.032 ms

Loss rate: 1.07%

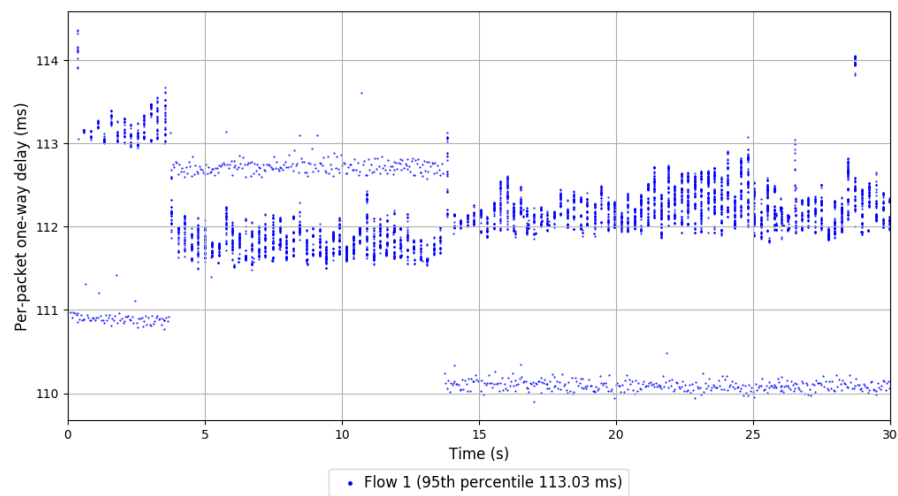
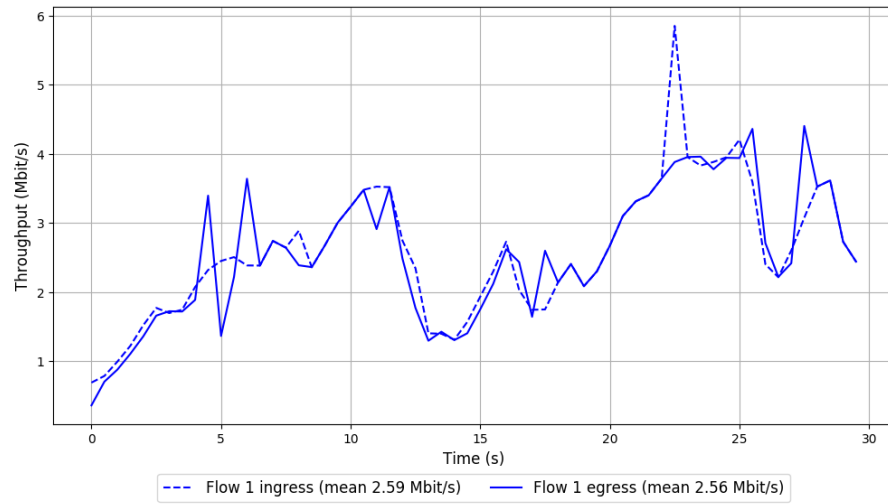
-- Flow 1:

Average throughput: 2.56 Mbit/s

95th percentile per-packet one-way delay: 113.032 ms

Loss rate: 1.07%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2017-11-15 23:34:07

End at: 2017-11-15 23:34:37

Below is generated by plot.py at 2017-11-16 00:57:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 115.014 ms

Loss rate: 0.69%

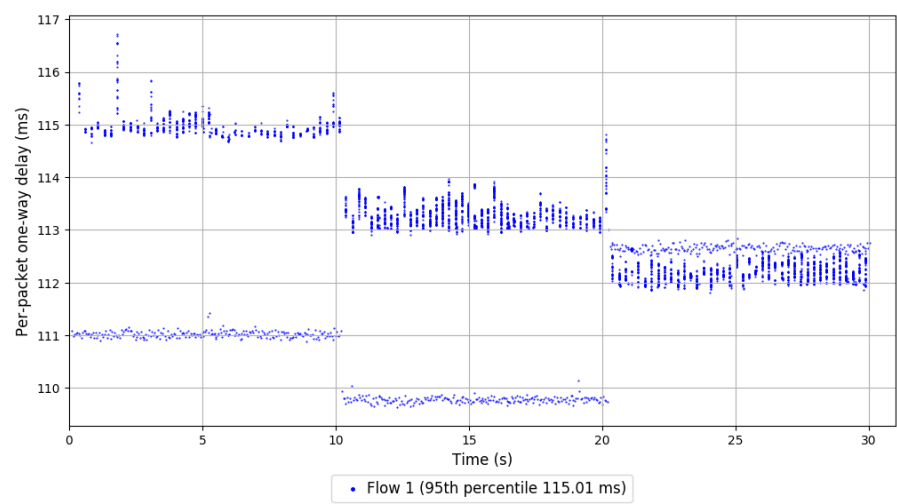
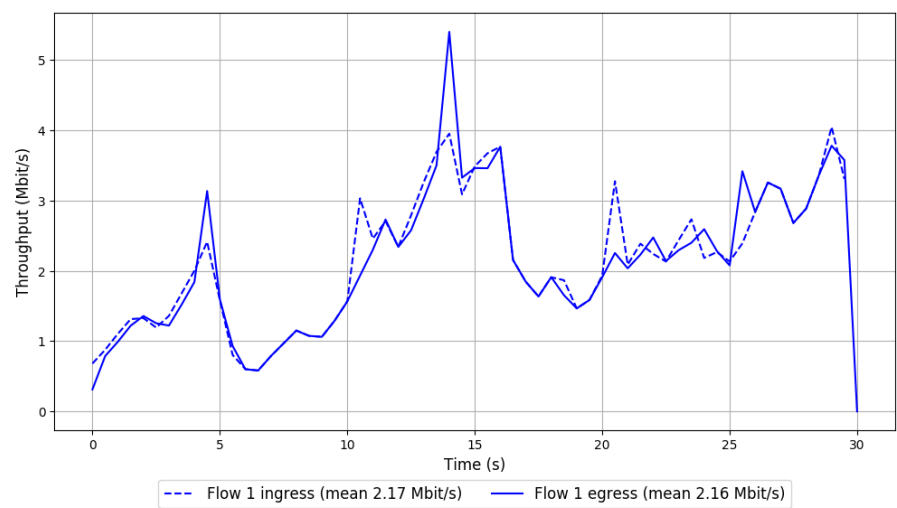
-- Flow 1:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 115.014 ms

Loss rate: 0.69%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2017-11-15 23:45:18

End at: 2017-11-15 23:45:48

Below is generated by plot.py at 2017-11-16 00:57:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.56 Mbit/s

95th percentile per-packet one-way delay: 115.101 ms

Loss rate: 0.51%

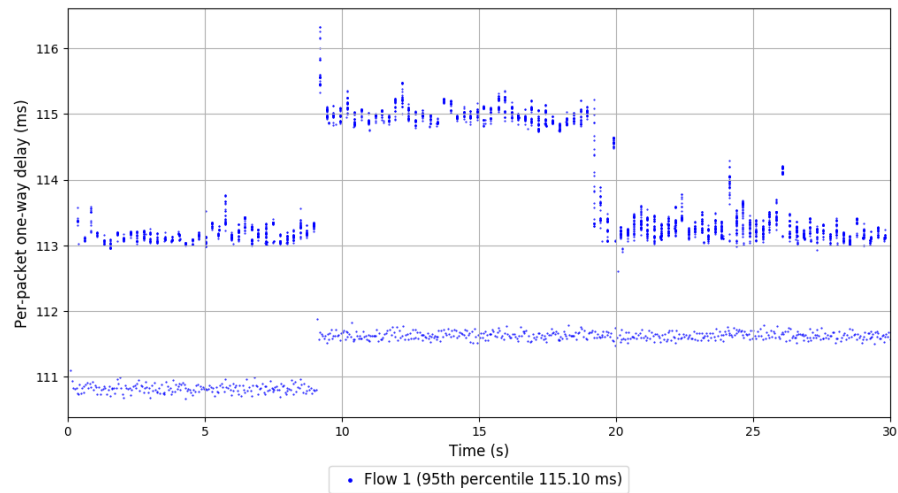
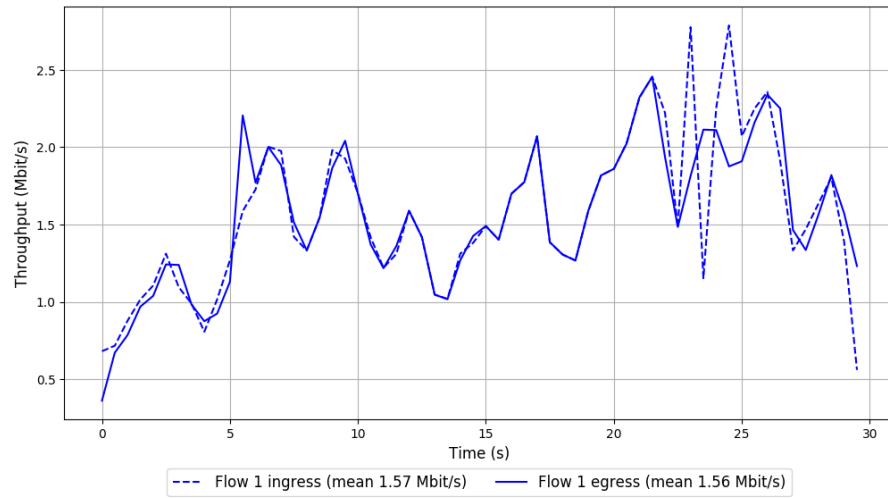
-- Flow 1:

Average throughput: 1.56 Mbit/s

95th percentile per-packet one-way delay: 115.101 ms

Loss rate: 0.51%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2017-11-15 23:56:26

End at: 2017-11-15 23:56:56

Below is generated by plot.py at 2017-11-16 00:57:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.09 Mbit/s

95th percentile per-packet one-way delay: 113.401 ms

Loss rate: 0.70%

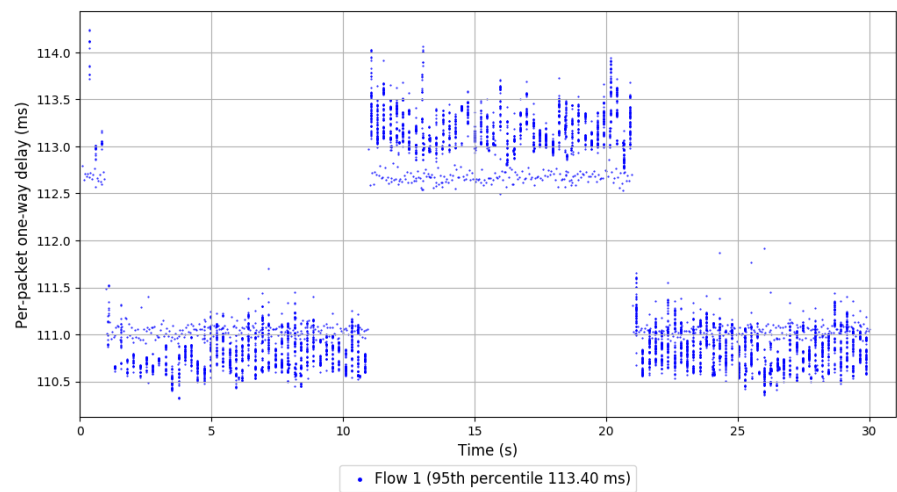
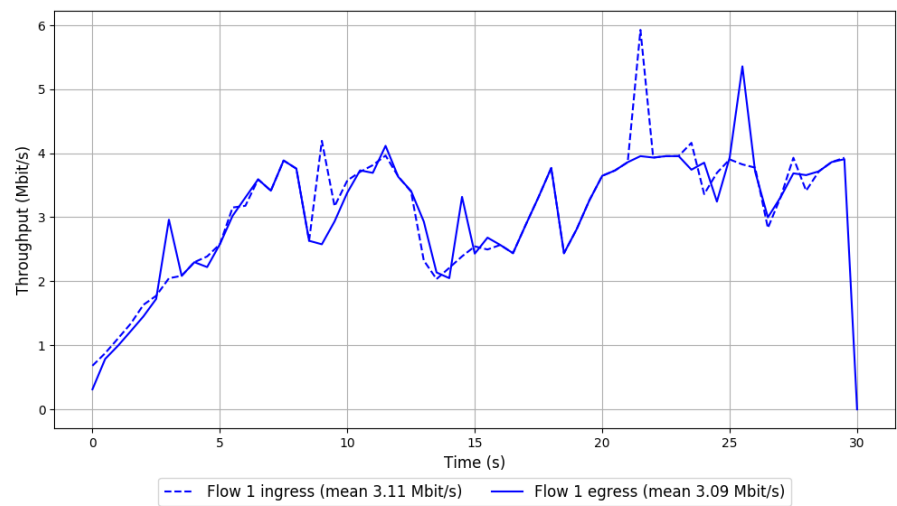
-- Flow 1:

Average throughput: 3.09 Mbit/s

95th percentile per-packet one-way delay: 113.401 ms

Loss rate: 0.70%

Run 10: Report of Sprout — Data Link

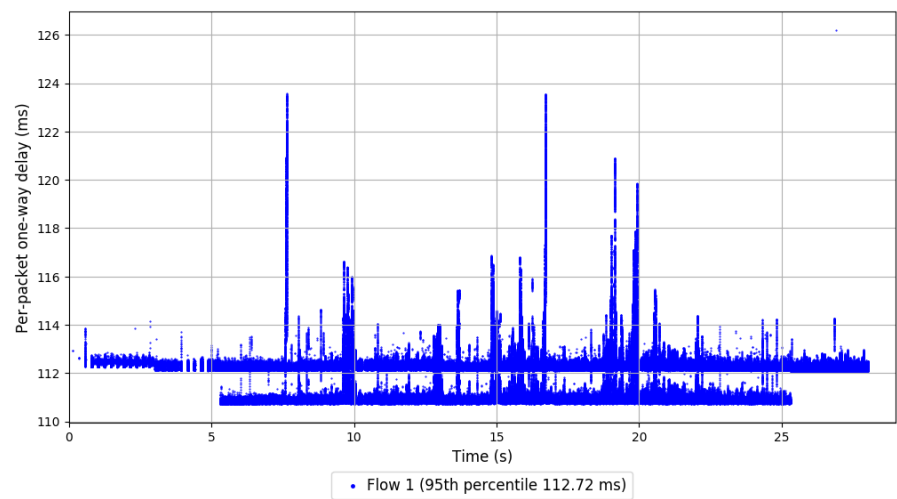
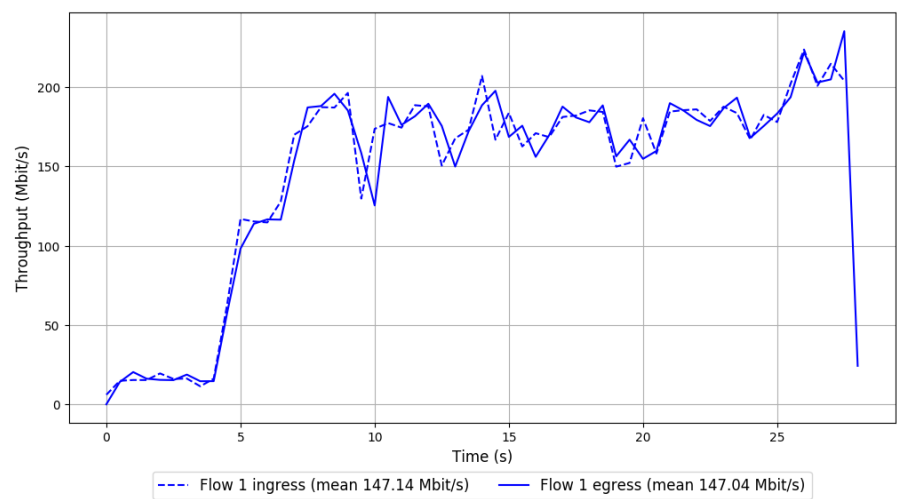


```
Run 1: Statistics of TaoVA-100x

Start at: 2017-11-15 22:07:40
End at: 2017-11-15 22:08:10

# Below is generated by plot.py at 2017-11-16 00:57:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 147.04 Mbit/s
95th percentile per-packet one-way delay: 112.725 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 147.04 Mbit/s
95th percentile per-packet one-way delay: 112.725 ms
Loss rate: 0.07%
```

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

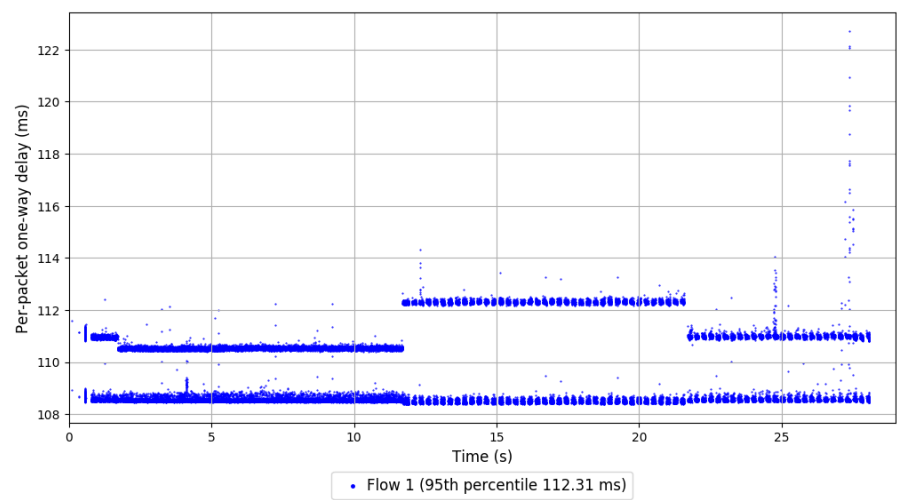
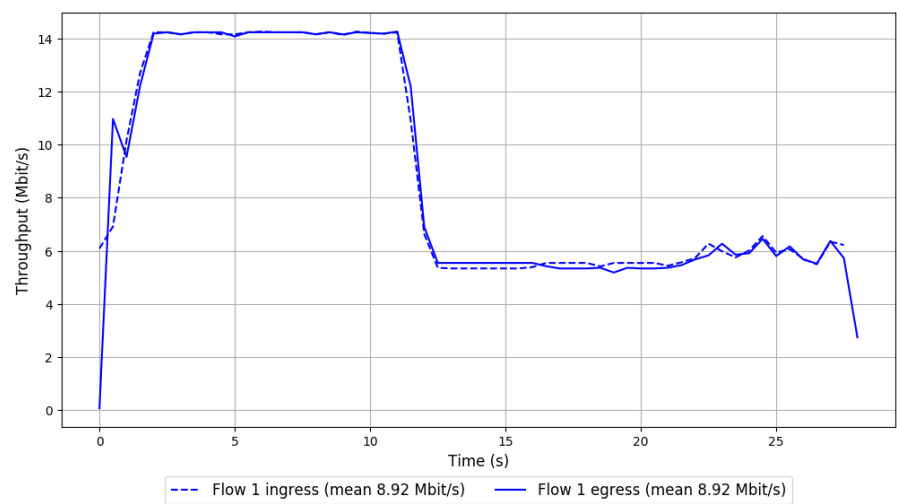


```
Run 2: Statistics of TaoVA-100x

Start at: 2017-11-15 22:18:33
End at: 2017-11-15 22:19:03

# Below is generated by plot.py at 2017-11-16 00:57:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 8.92 Mbit/s
95th percentile per-packet one-way delay: 112.308 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 8.92 Mbit/s
95th percentile per-packet one-way delay: 112.308 ms
Loss rate: 0.00%
```

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

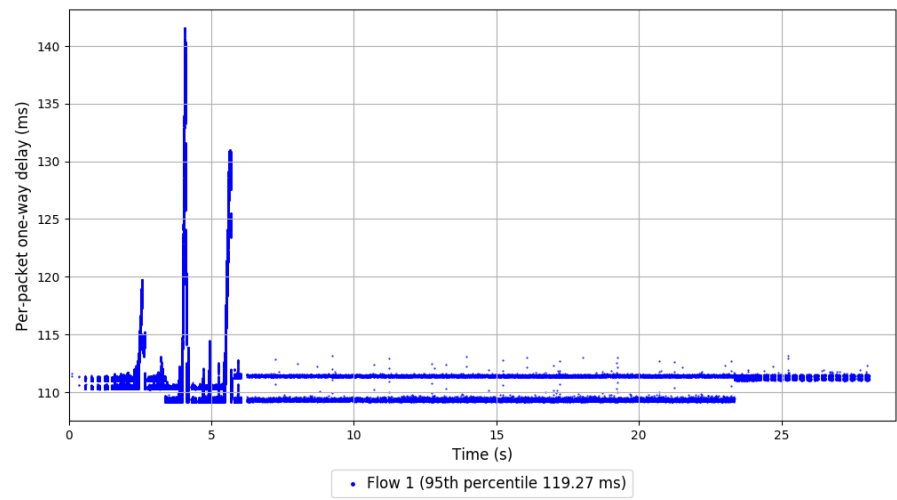
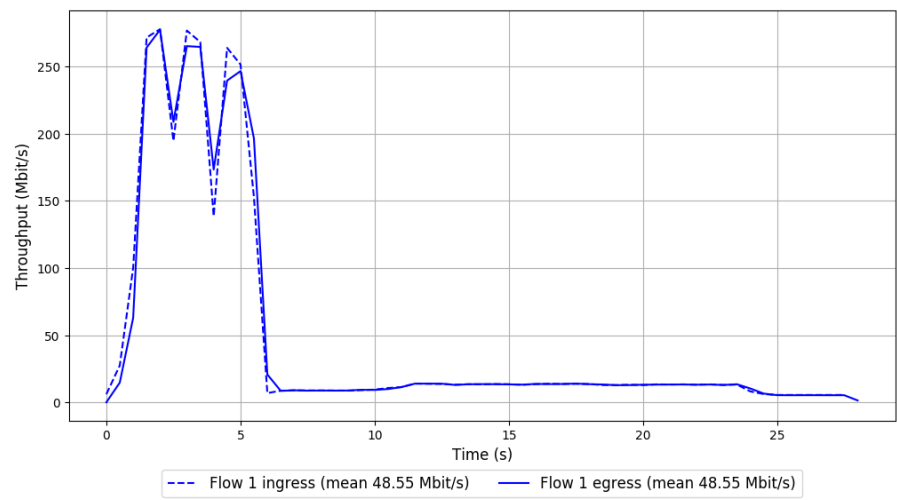


```
Run 3: Statistics of TaoVA-100x

Start at: 2017-11-15 22:29:39
End at: 2017-11-15 22:30:09

# Below is generated by plot.py at 2017-11-16 00:57:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 48.55 Mbit/s
95th percentile per-packet one-way delay: 119.269 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 48.55 Mbit/s
95th percentile per-packet one-way delay: 119.269 ms
Loss rate: 0.00%
```

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

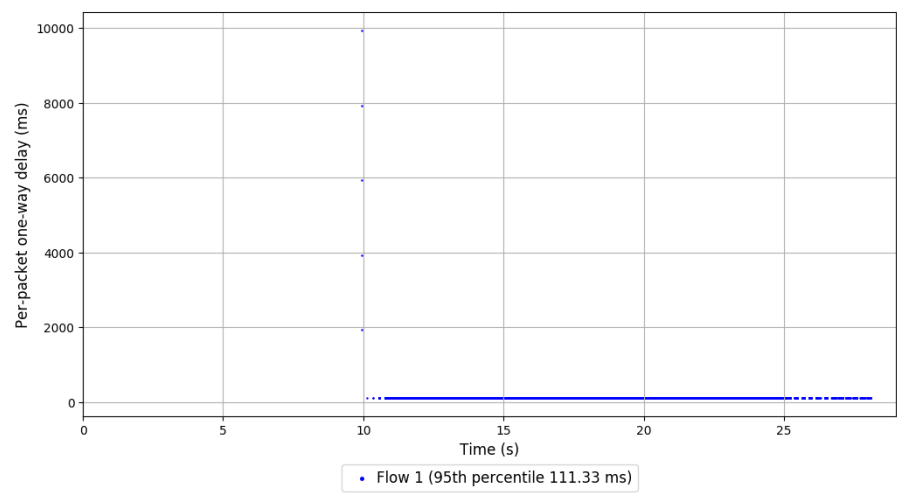
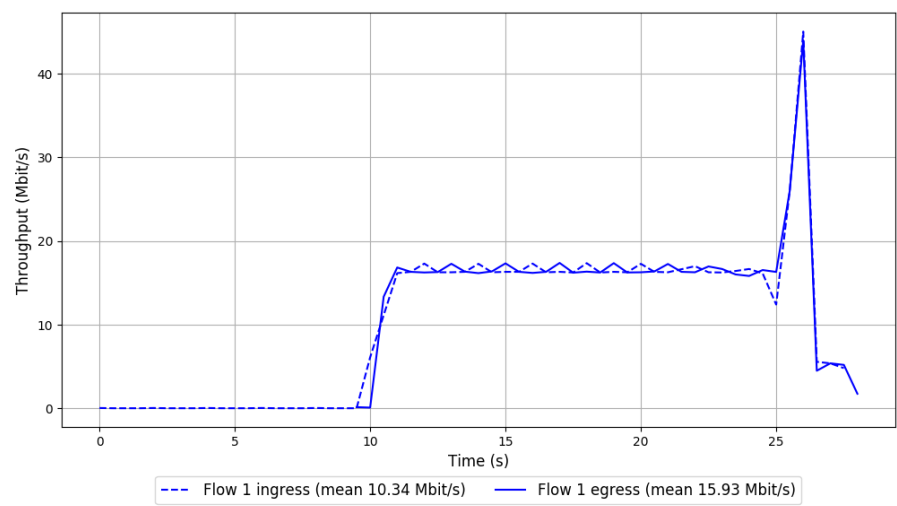


Run 4: Statistics of TaoVA-100x

Start at: 2017-11-15 22:40:40

End at: 2017-11-15 22:41:10

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



Run 5: Statistics of TaoVA-100x

Start at: 2017-11-15 22:51:39

End at: 2017-11-15 22:52:09

Below is generated by plot.py at 2017-11-16 00:57:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 108.69 Mbit/s

95th percentile per-packet one-way delay: 112.010 ms

Loss rate: 0.00%

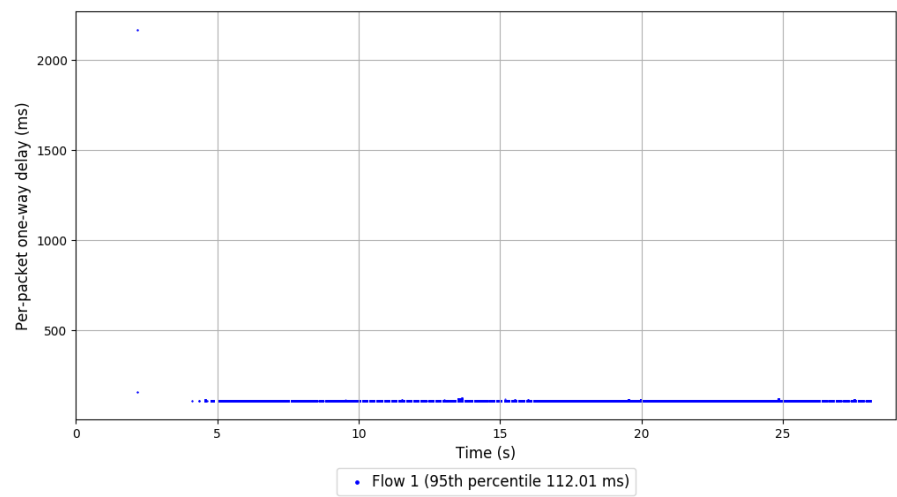
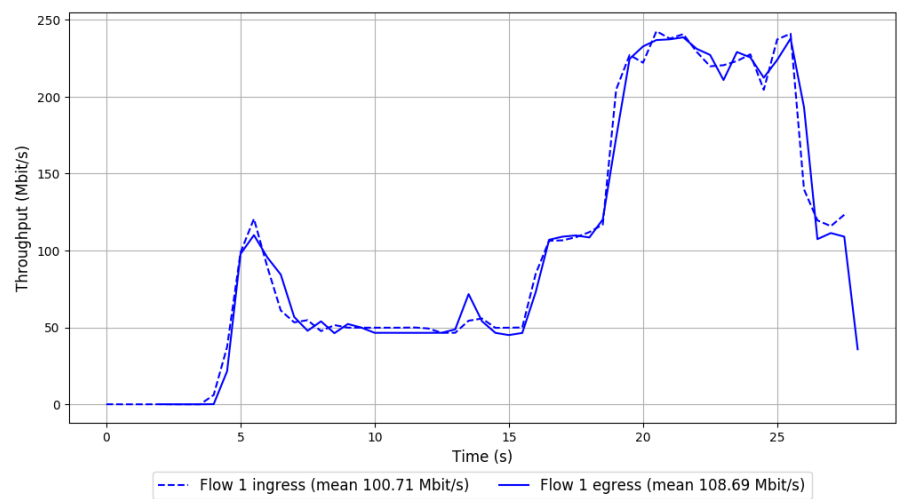
-- Flow 1:

Average throughput: 108.69 Mbit/s

95th percentile per-packet one-way delay: 112.010 ms

Loss rate: 0.00%

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

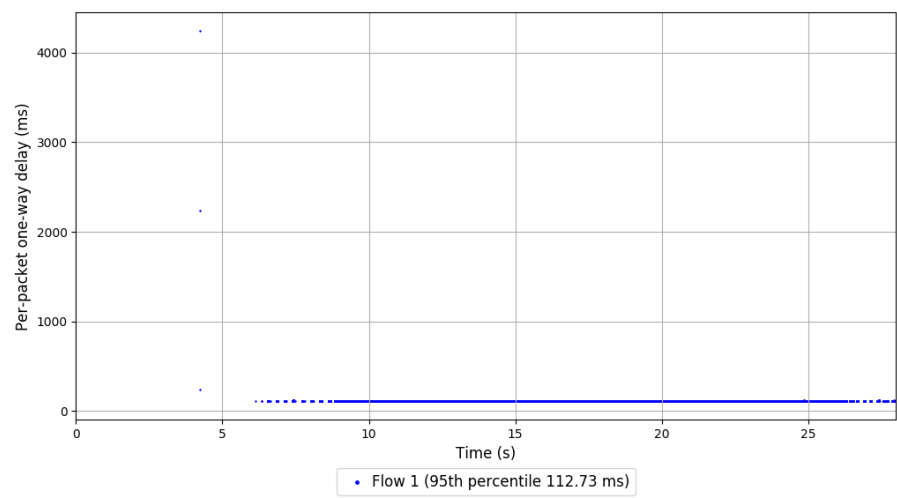
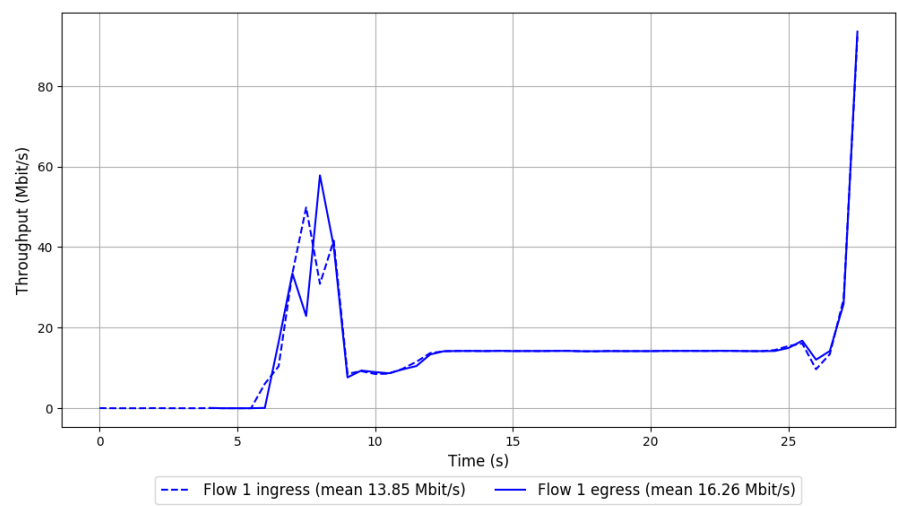


Run 6: Statistics of TaoVA-100x

Start at: 2017-11-15 23:02:47

End at: 2017-11-15 23:03:17

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

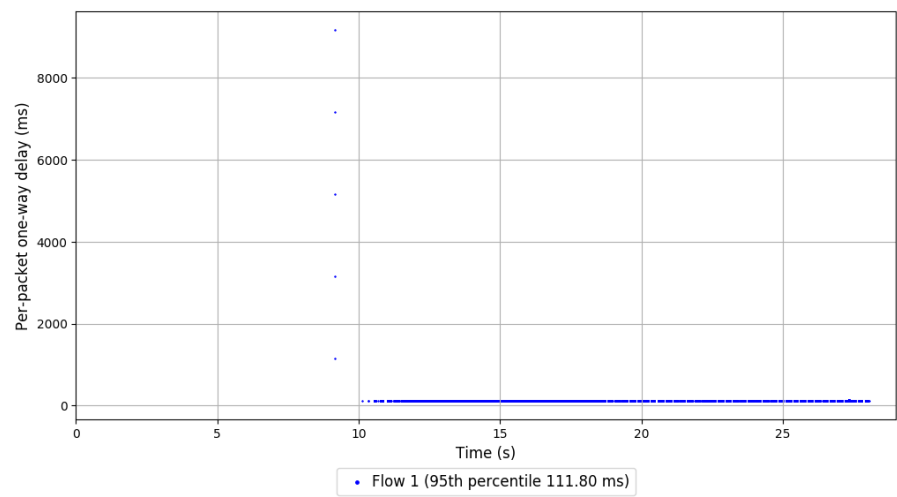
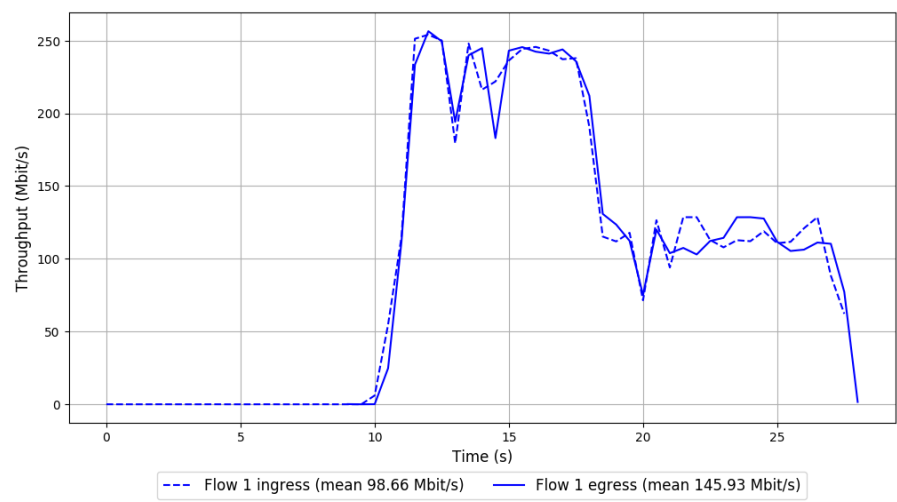


Run 7: Statistics of TaoVA-100x

Start at: 2017-11-15 23:13:45

End at: 2017-11-15 23:14:15

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

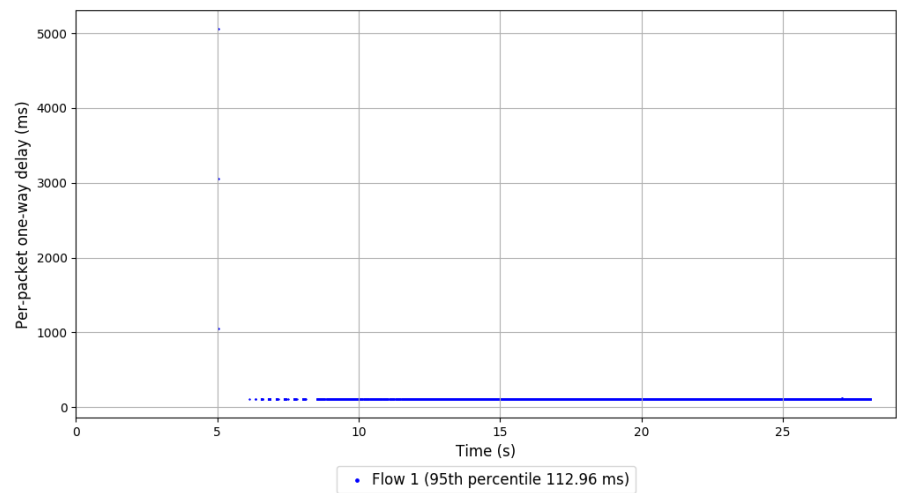
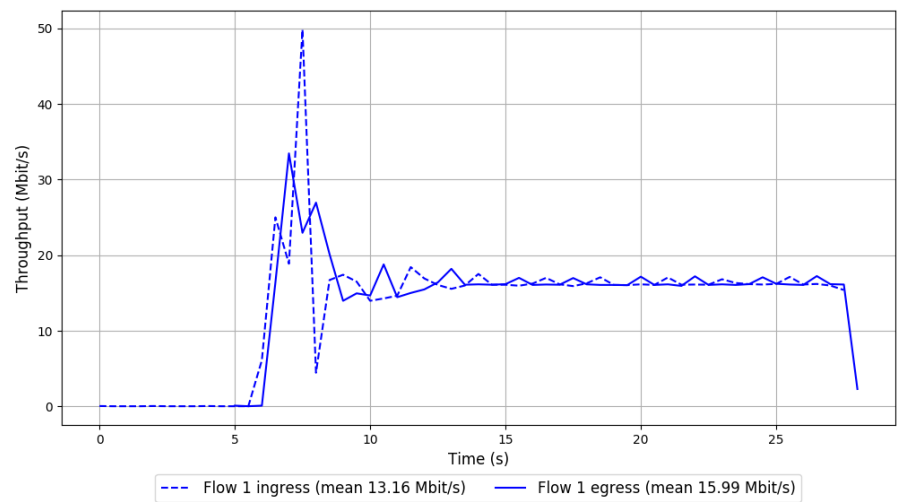


Run 8: Statistics of TaoVA-100x

Start at: 2017-11-15 23:24:51

End at: 2017-11-15 23:25:21

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



Run 9: Statistics of TaoVA-100x

Start at: 2017-11-15 23:35:48

End at: 2017-11-15 23:36:18

Below is generated by plot.py at 2017-11-16 00:57:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 60.58 Mbit/s

95th percentile per-packet one-way delay: 134.366 ms

Loss rate: 0.00%

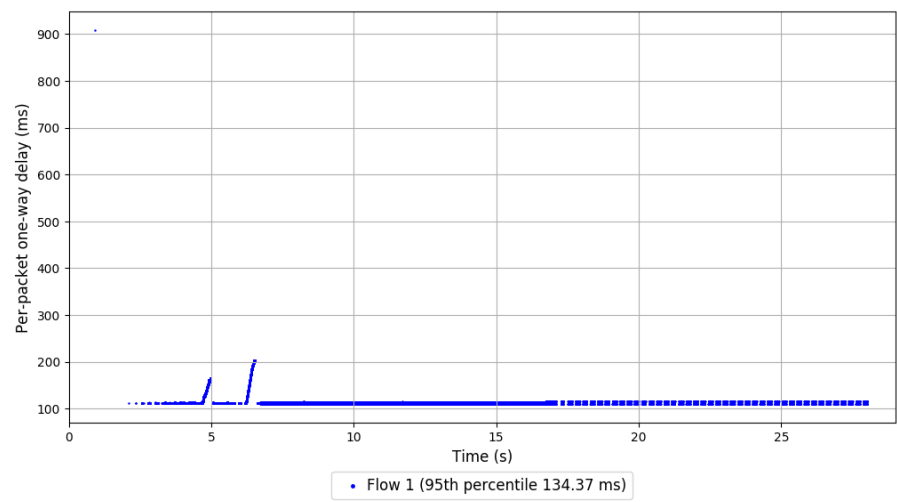
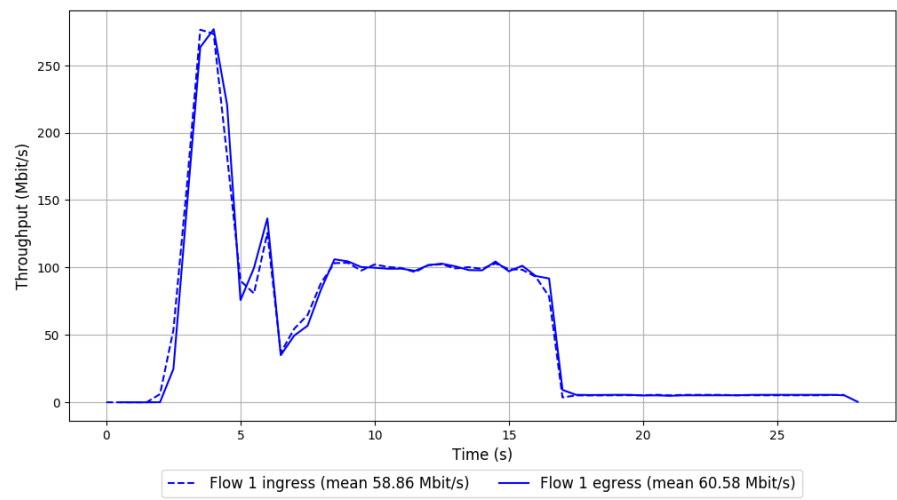
-- Flow 1:

Average throughput: 60.58 Mbit/s

95th percentile per-packet one-way delay: 134.366 ms

Loss rate: 0.00%

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

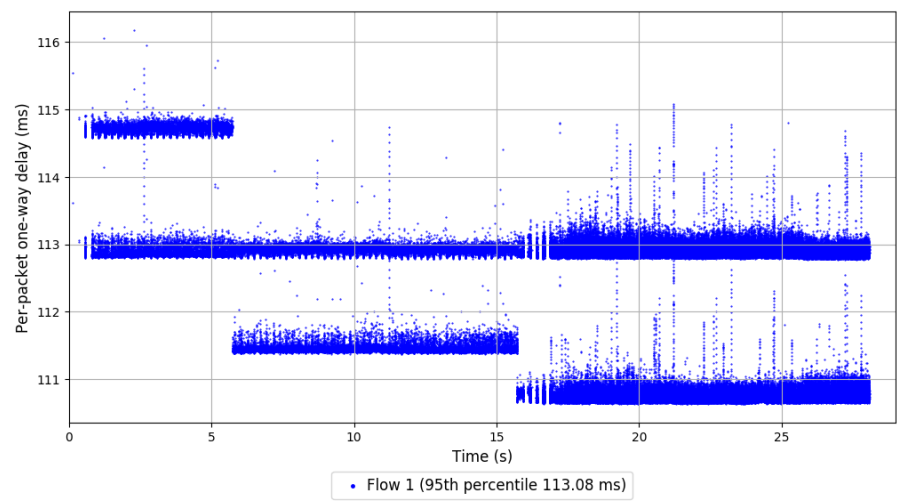
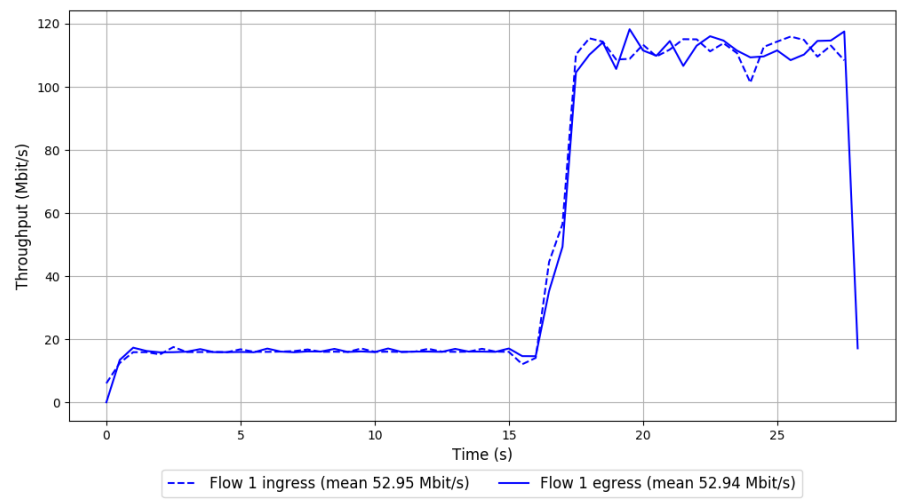


```
Run 10: Statistics of TaoVA-100x

Start at: 2017-11-15 23:46:59
End at: 2017-11-15 23:47:29

# Below is generated by plot.py at 2017-11-16 00:57:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 52.94 Mbit/s
95th percentile per-packet one-way delay: 113.077 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 52.94 Mbit/s
95th percentile per-packet one-way delay: 113.077 ms
Loss rate: 0.04%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2017-11-15 22:16:24

End at: 2017-11-15 22:16:54

Below is generated by plot.py at 2017-11-16 00:57:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.46 Mbit/s

95th percentile per-packet one-way delay: 112.929 ms

Loss rate: 0.16%

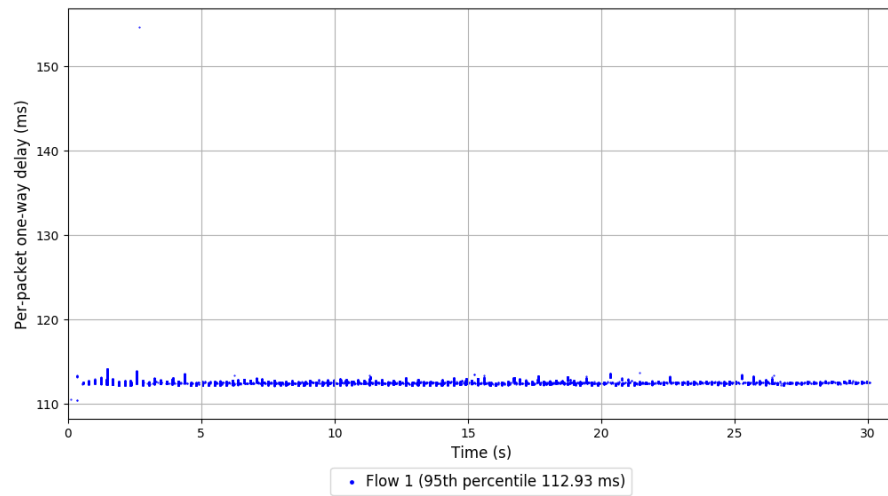
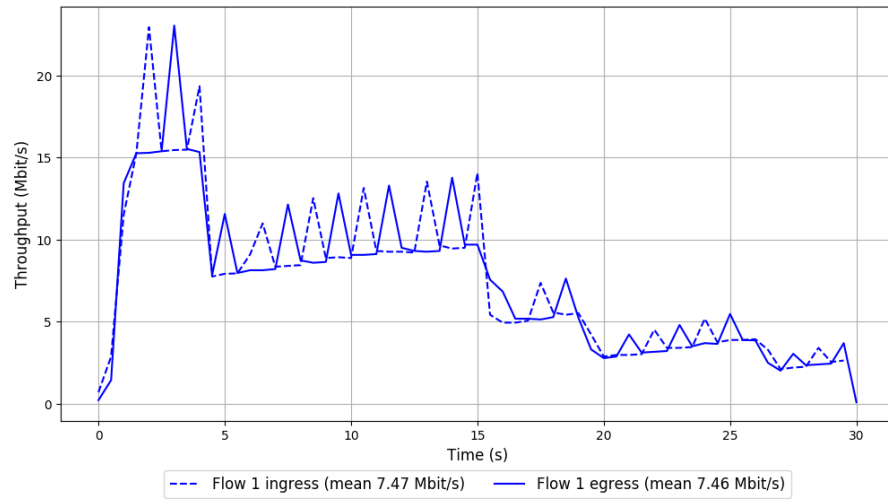
-- Flow 1:

Average throughput: 7.46 Mbit/s

95th percentile per-packet one-way delay: 112.929 ms

Loss rate: 0.16%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2017-11-15 22:27:14

End at: 2017-11-15 22:27:44

Below is generated by plot.py at 2017-11-16 00:57:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.54 Mbit/s

95th percentile per-packet one-way delay: 111.774 ms

Loss rate: 1.14%

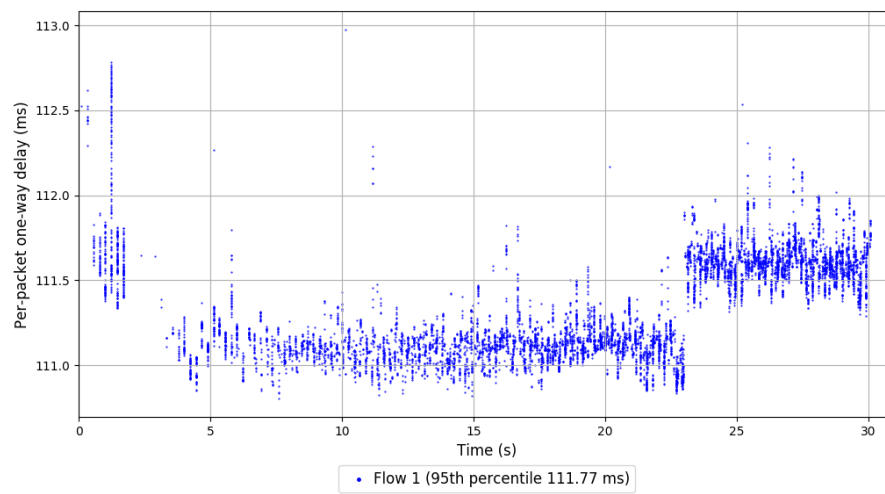
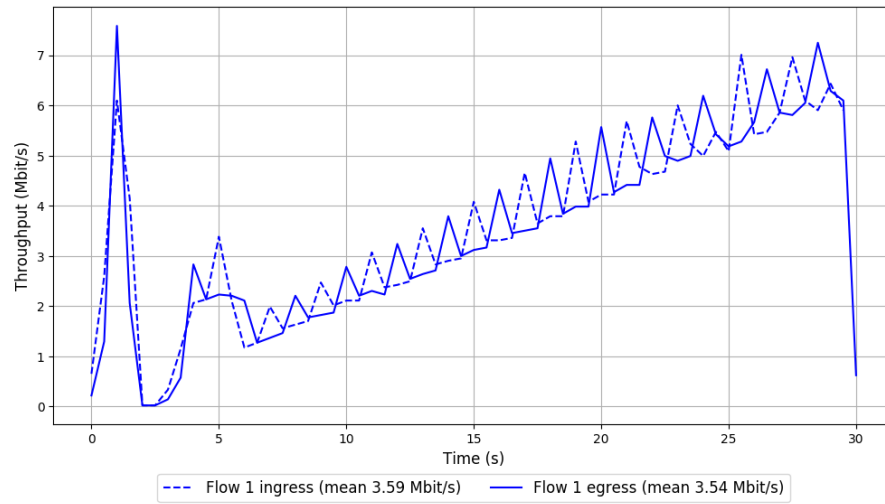
-- Flow 1:

Average throughput: 3.54 Mbit/s

95th percentile per-packet one-way delay: 111.774 ms

Loss rate: 1.14%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2017-11-15 22:38:22

End at: 2017-11-15 22:38:52

Below is generated by plot.py at 2017-11-16 00:57:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 28.86 Mbit/s

95th percentile per-packet one-way delay: 112.134 ms

Loss rate: 0.01%

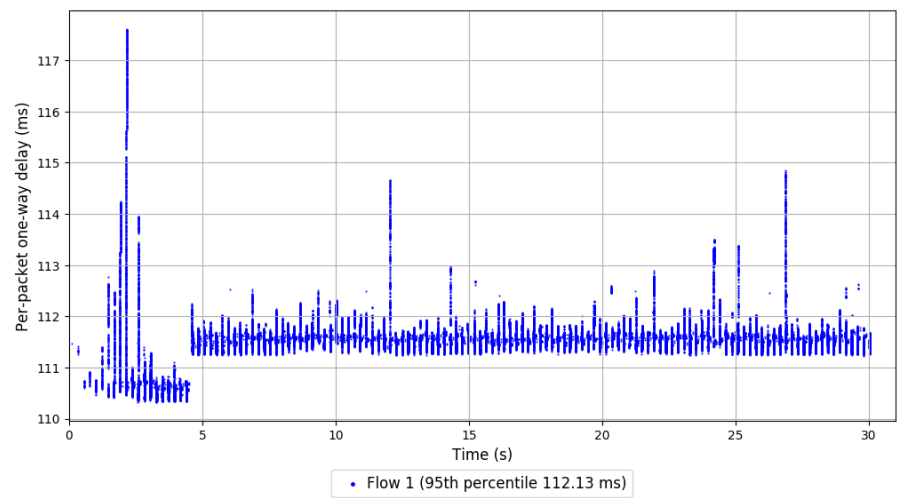
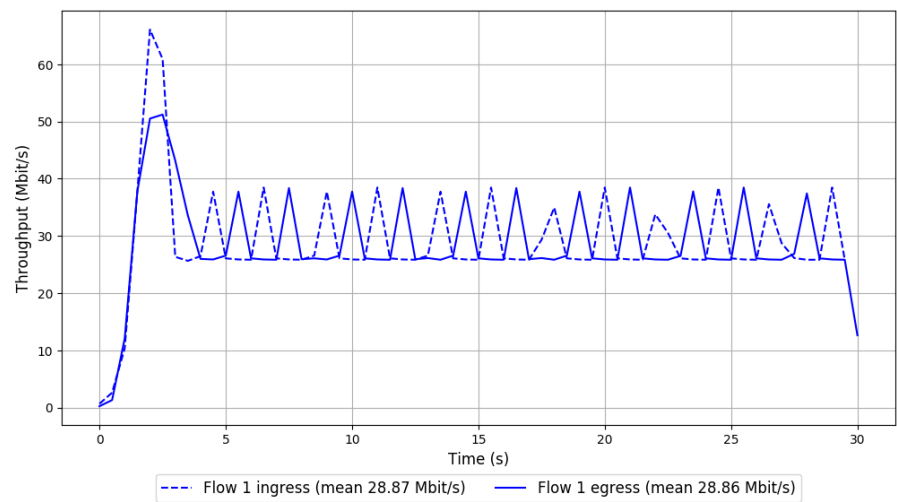
-- Flow 1:

Average throughput: 28.86 Mbit/s

95th percentile per-packet one-way delay: 112.134 ms

Loss rate: 0.01%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2017-11-15 22:49:17

End at: 2017-11-15 22:49:47

Below is generated by plot.py at 2017-11-16 00:57:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.83 Mbit/s

95th percentile per-packet one-way delay: 111.738 ms

Loss rate: 0.24%

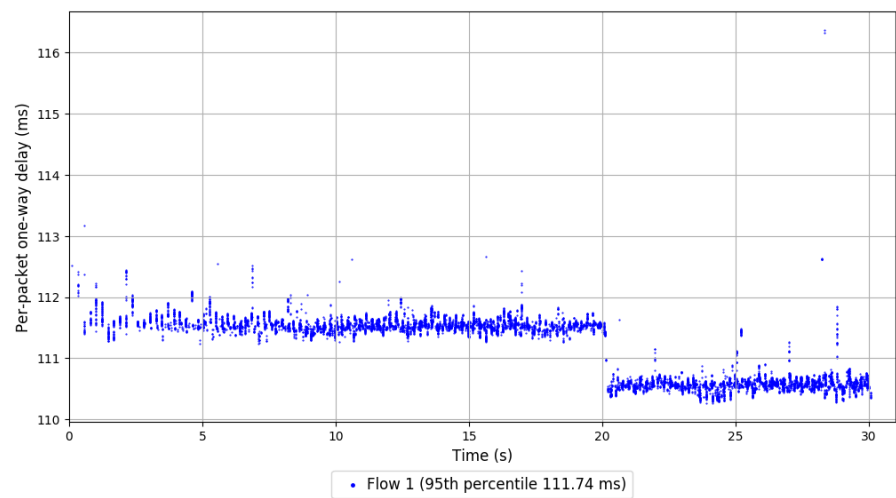
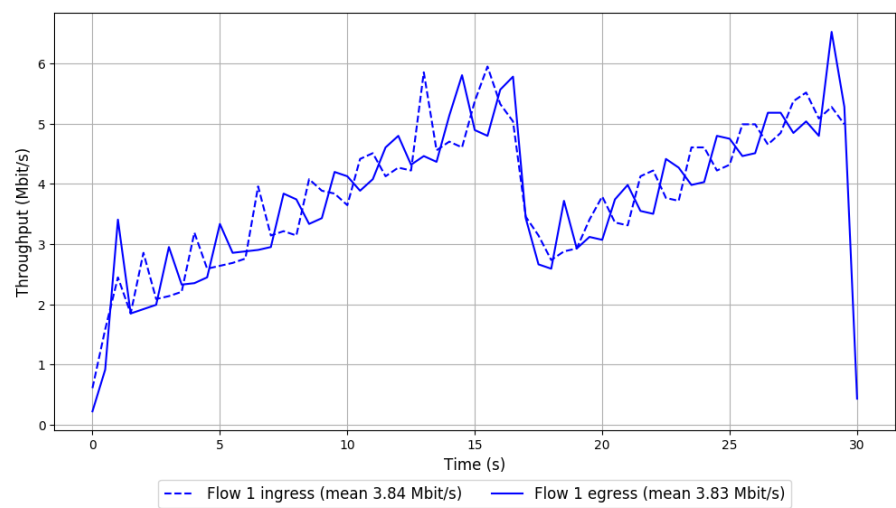
-- Flow 1:

Average throughput: 3.83 Mbit/s

95th percentile per-packet one-way delay: 111.738 ms

Loss rate: 0.24%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2017-11-15 23:00:25

End at: 2017-11-15 23:00:55

Below is generated by plot.py at 2017-11-16 00:57:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.14 Mbit/s

95th percentile per-packet one-way delay: 112.902 ms

Loss rate: 0.02%

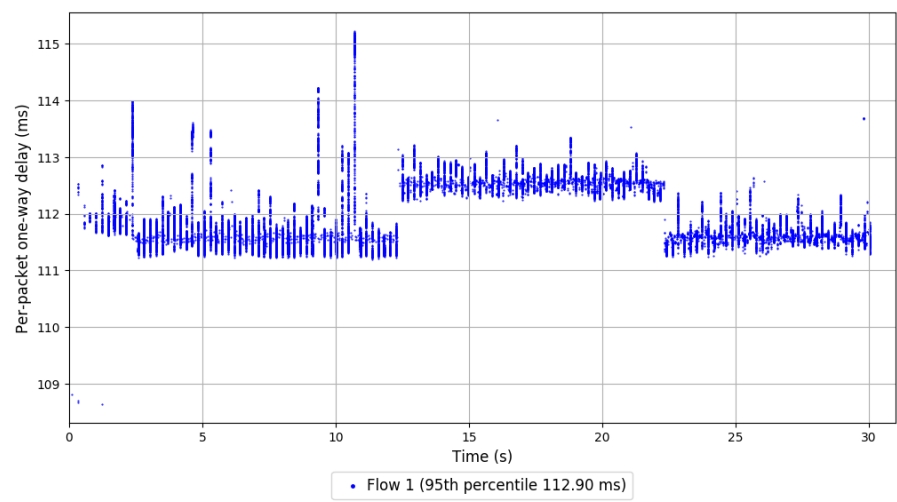
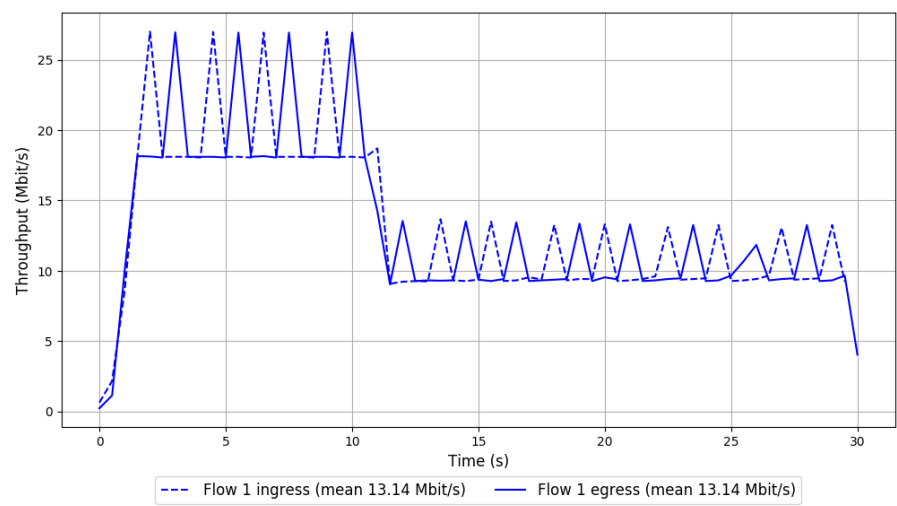
-- Flow 1:

Average throughput: 13.14 Mbit/s

95th percentile per-packet one-way delay: 112.902 ms

Loss rate: 0.02%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2017-11-15 23:11:31

End at: 2017-11-15 23:12:01

Below is generated by plot.py at 2017-11-16 00:57:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 19.51 Mbit/s

95th percentile per-packet one-way delay: 112.806 ms

Loss rate: 0.73%

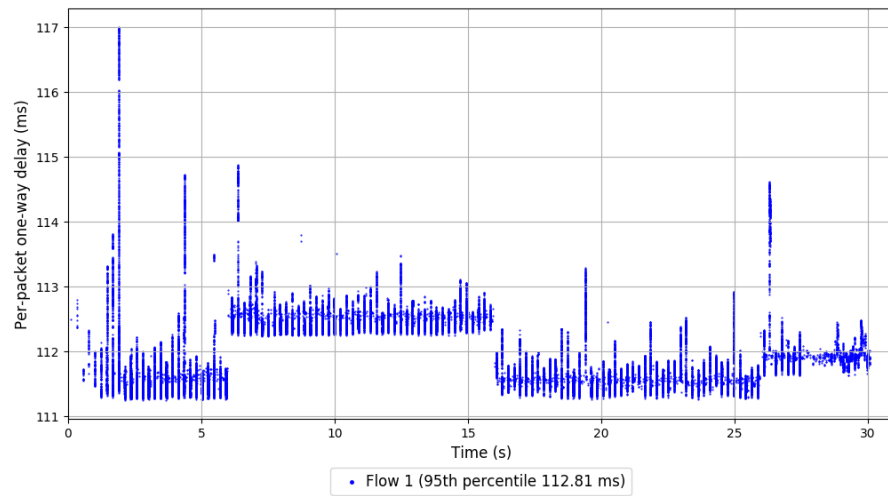
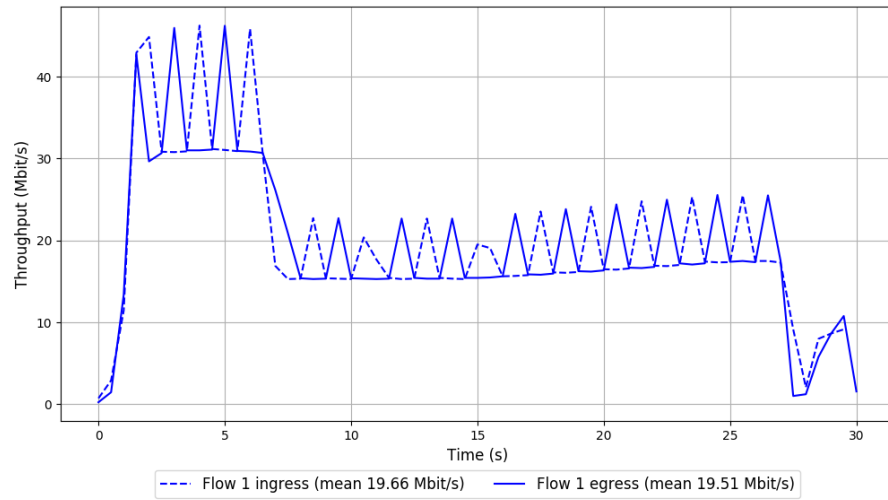
-- Flow 1:

Average throughput: 19.51 Mbit/s

95th percentile per-packet one-way delay: 112.806 ms

Loss rate: 0.73%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2017-11-15 23:22:31

End at: 2017-11-15 23:23:01

Below is generated by plot.py at 2017-11-16 00:57:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 10.80 Mbit/s

95th percentile per-packet one-way delay: 111.969 ms

Loss rate: 1.01%

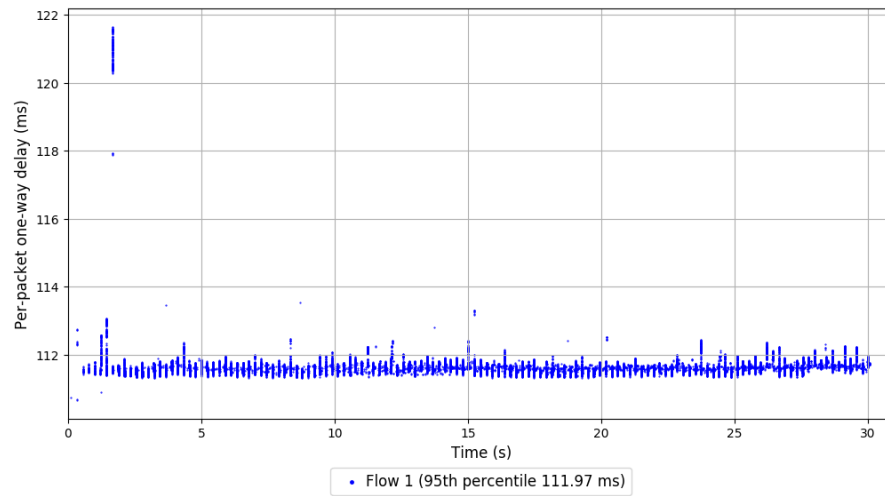
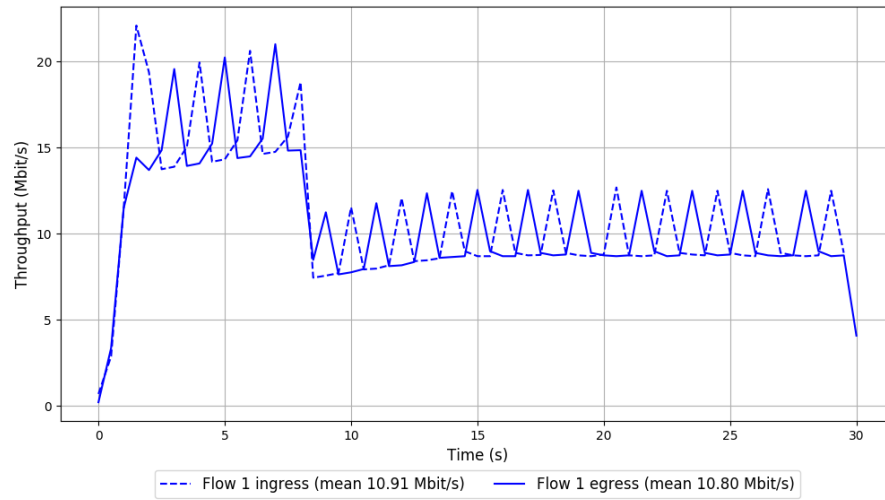
-- Flow 1:

Average throughput: 10.80 Mbit/s

95th percentile per-packet one-way delay: 111.969 ms

Loss rate: 1.01%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2017-11-15 23:33:23

End at: 2017-11-15 23:33:53

Below is generated by plot.py at 2017-11-16 00:57:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 30.64 Mbit/s

95th percentile per-packet one-way delay: 115.344 ms

Loss rate: 0.00%

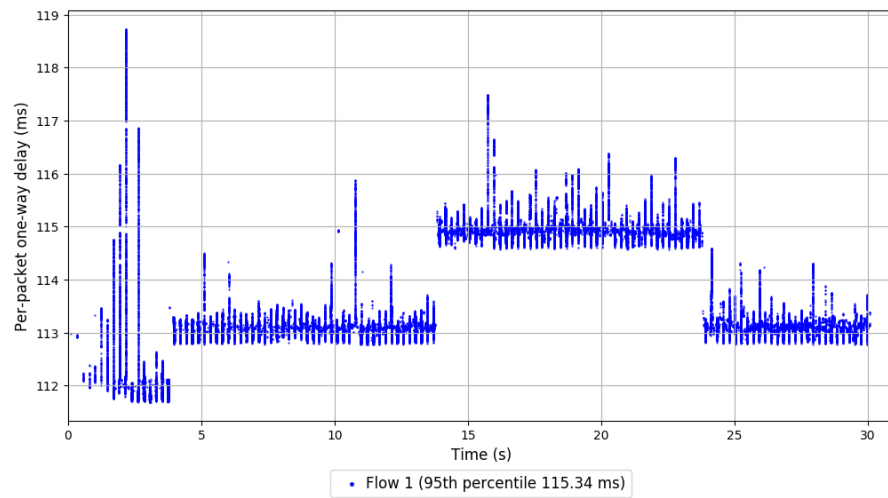
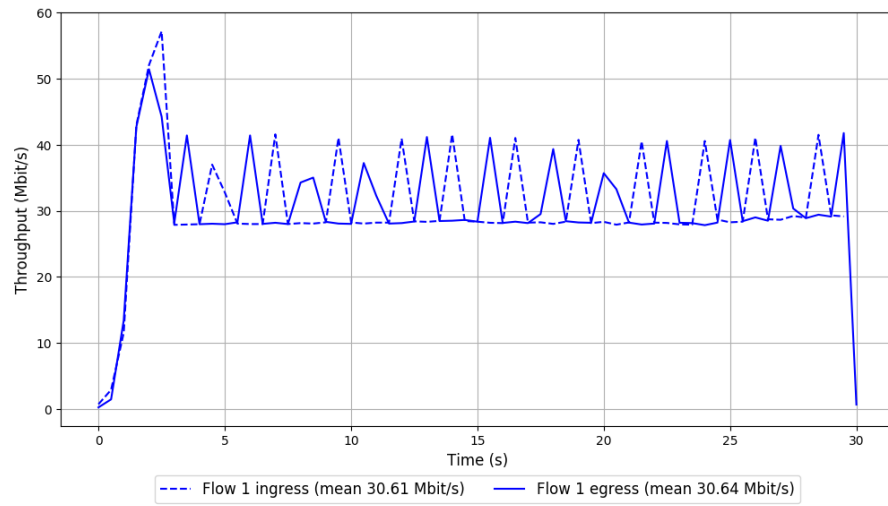
-- Flow 1:

Average throughput: 30.64 Mbit/s

95th percentile per-packet one-way delay: 115.344 ms

Loss rate: 0.00%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2017-11-15 23:44:35

End at: 2017-11-15 23:45:05

Below is generated by plot.py at 2017-11-16 00:57:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 18.95 Mbit/s

95th percentile per-packet one-way delay: 113.231 ms

Loss rate: 0.01%

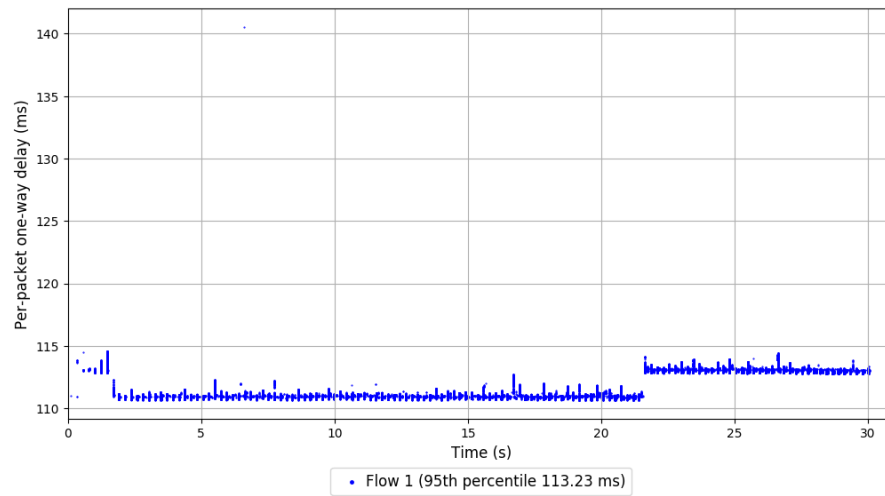
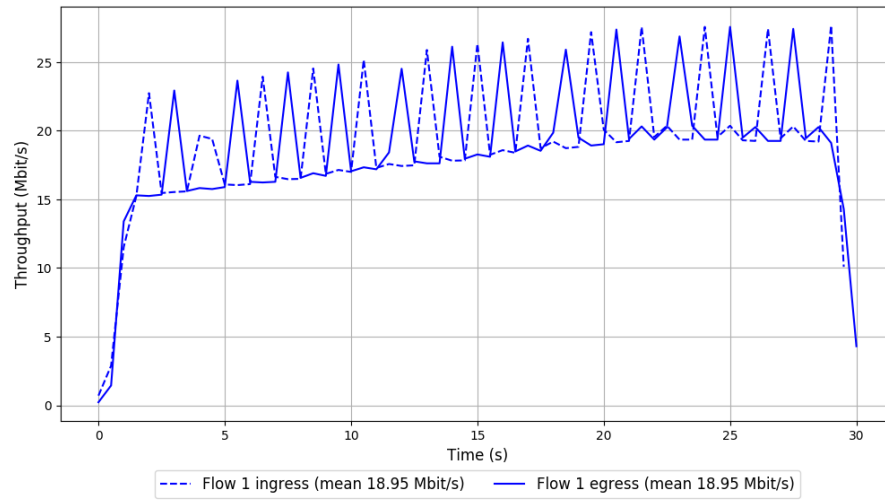
-- Flow 1:

Average throughput: 18.95 Mbit/s

95th percentile per-packet one-way delay: 113.231 ms

Loss rate: 0.01%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2017-11-15 23:55:44

End at: 2017-11-15 23:56:14

Below is generated by plot.py at 2017-11-16 00:57:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 20.12 Mbit/s

95th percentile per-packet one-way delay: 115.086 ms

Loss rate: 0.22%

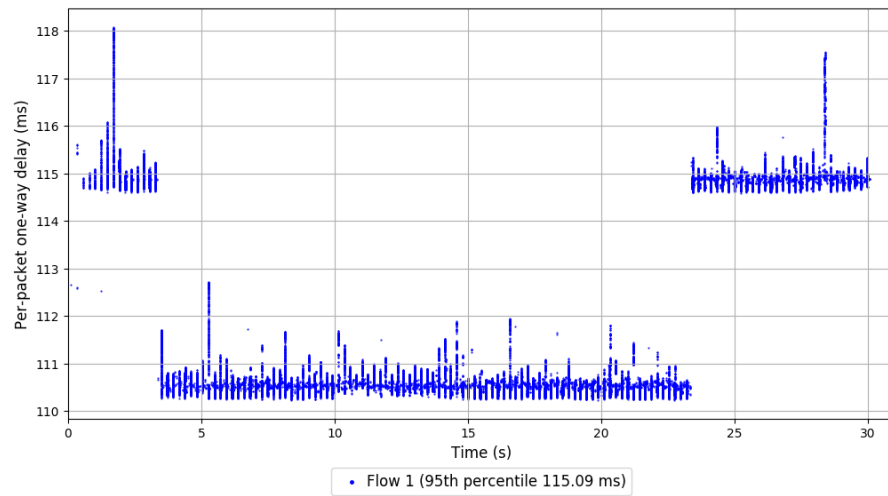
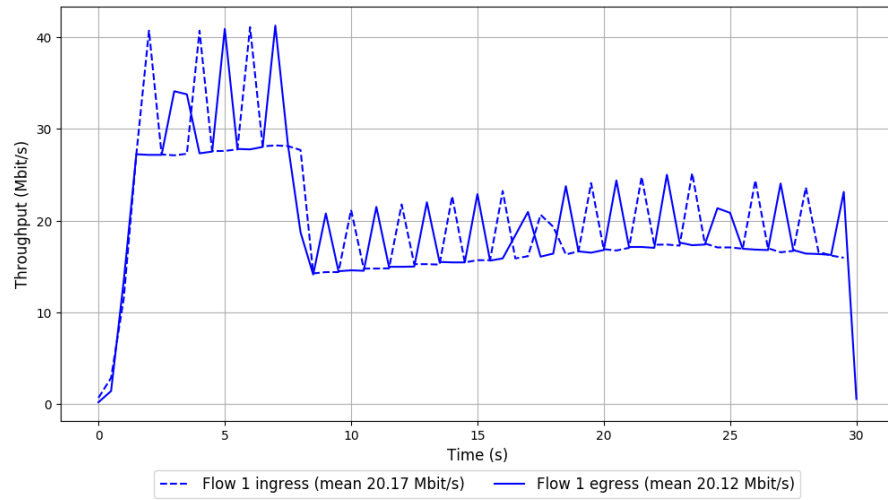
-- Flow 1:

Average throughput: 20.12 Mbit/s

95th percentile per-packet one-way delay: 115.086 ms

Loss rate: 0.22%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2017-11-15 22:06:43

End at: 2017-11-15 22:07:13

Below is generated by plot.py at 2017-11-16 00:57:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 212.84 Mbit/s

95th percentile per-packet one-way delay: 132.053 ms

Loss rate: 0.31%

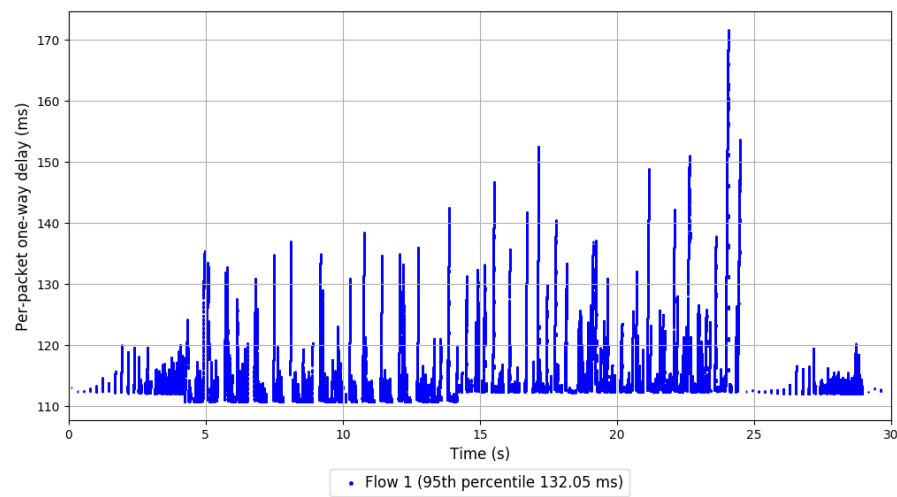
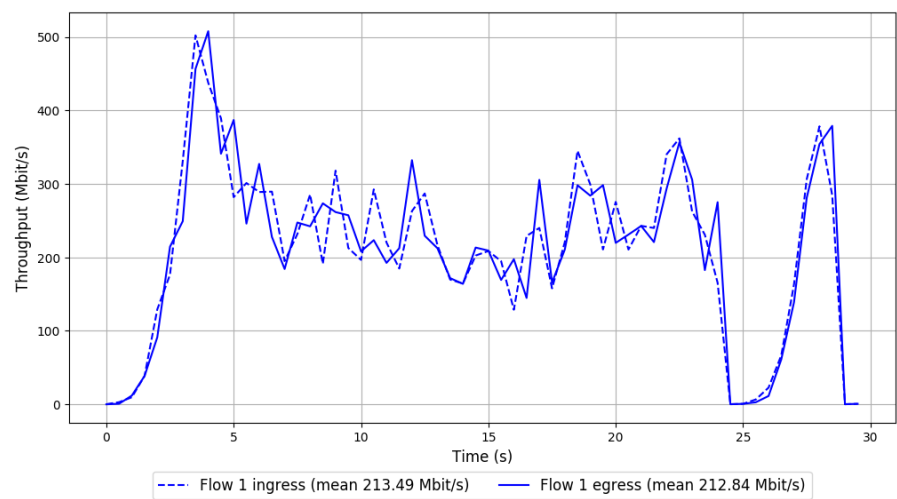
-- Flow 1:

Average throughput: 212.84 Mbit/s

95th percentile per-packet one-way delay: 132.053 ms

Loss rate: 0.31%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2017-11-15 22:17:47

End at: 2017-11-15 22:18:17

Below is generated by plot.py at 2017-11-16 00:57:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 60.42 Mbit/s

95th percentile per-packet one-way delay: 132.401 ms

Loss rate: 0.22%

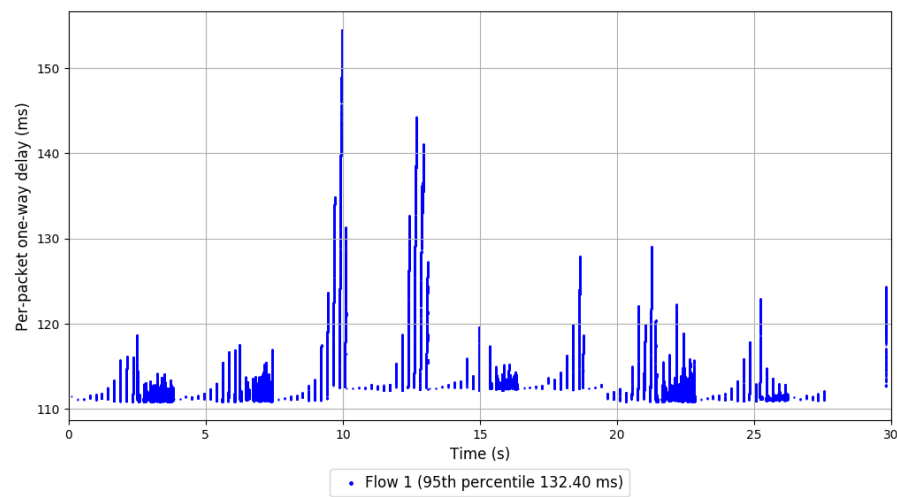
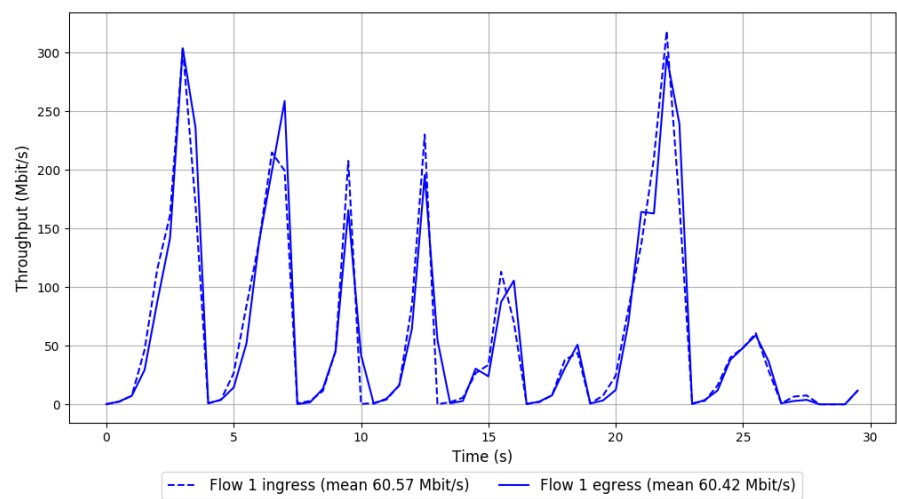
-- Flow 1:

Average throughput: 60.42 Mbit/s

95th percentile per-packet one-way delay: 132.401 ms

Loss rate: 0.22%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2017-11-15 22:28:37

End at: 2017-11-15 22:29:07

Below is generated by plot.py at 2017-11-16 00:58:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 282.89 Mbit/s

95th percentile per-packet one-way delay: 150.752 ms

Loss rate: 0.28%

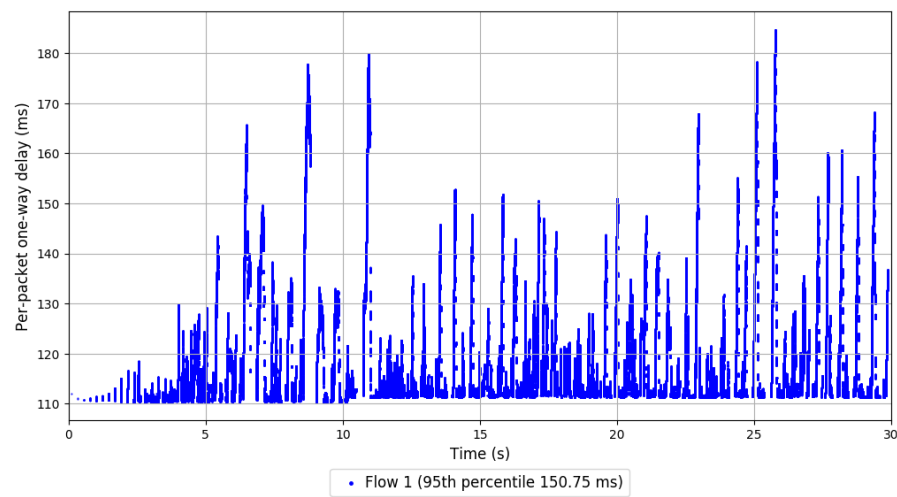
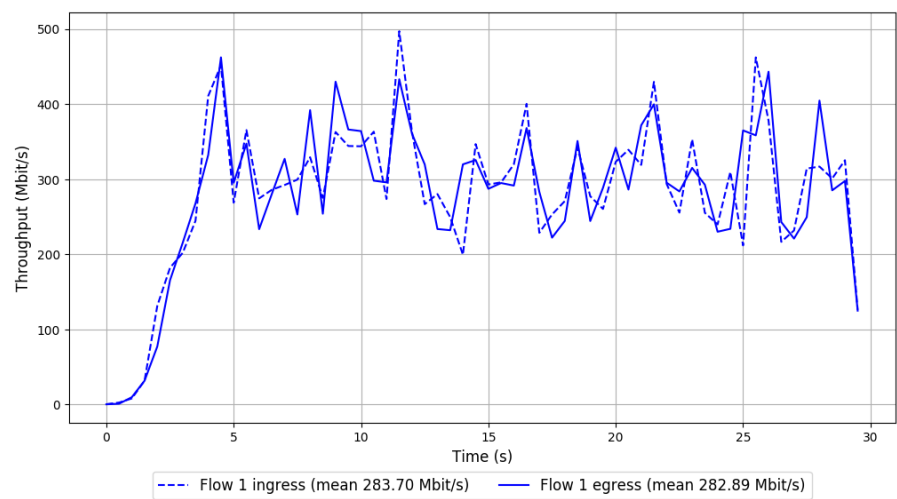
-- Flow 1:

Average throughput: 282.89 Mbit/s

95th percentile per-packet one-way delay: 150.752 ms

Loss rate: 0.28%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2017-11-15 22:39:47

End at: 2017-11-15 22:40:17

Below is generated by plot.py at 2017-11-16 00:58:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 161.67 Mbit/s

95th percentile per-packet one-way delay: 125.389 ms

Loss rate: 0.02%

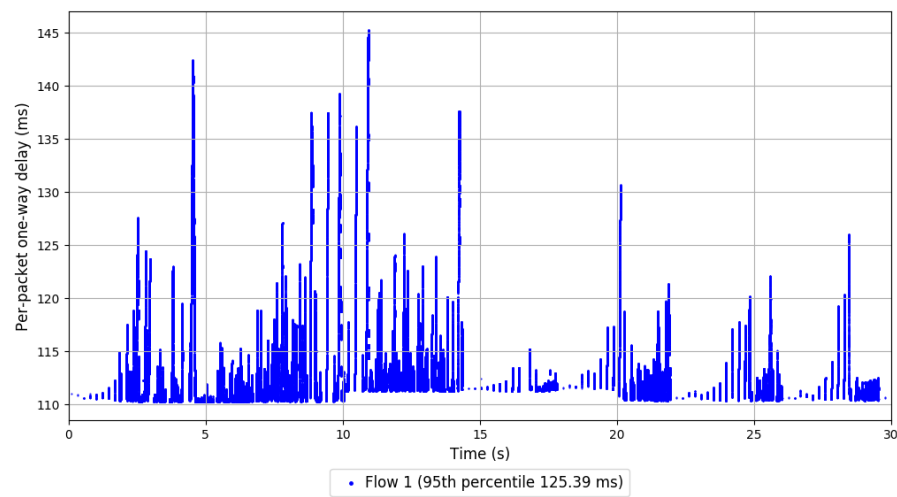
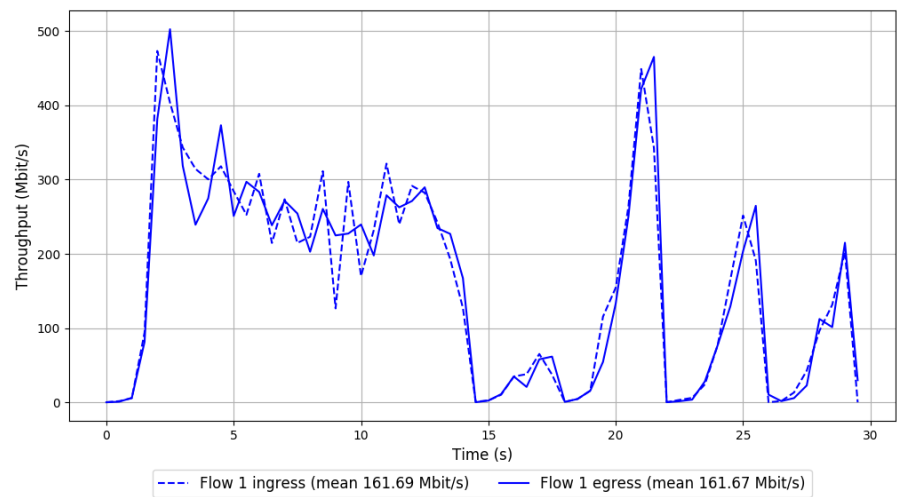
-- Flow 1:

Average throughput: 161.67 Mbit/s

95th percentile per-packet one-way delay: 125.389 ms

Loss rate: 0.02%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2017-11-15 22:50:39

End at: 2017-11-15 22:51:09

Below is generated by plot.py at 2017-11-16 00:58:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 239.22 Mbit/s

95th percentile per-packet one-way delay: 200.636 ms

Loss rate: 1.24%

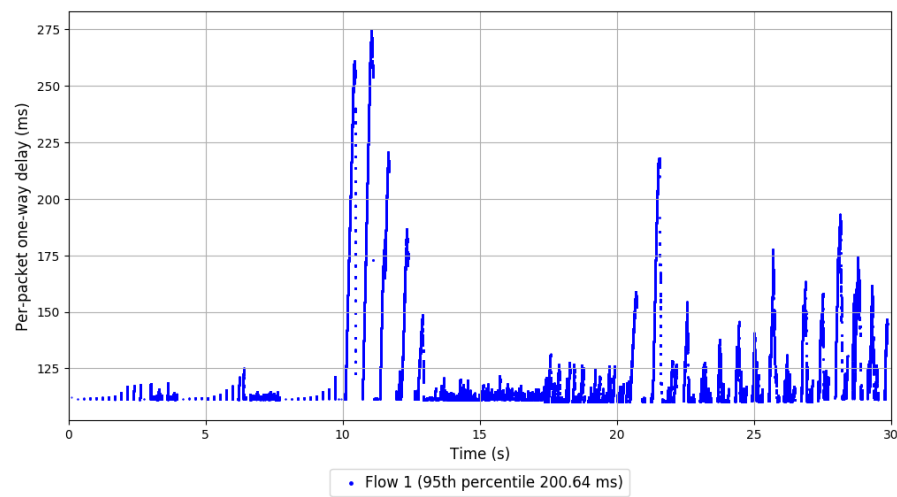
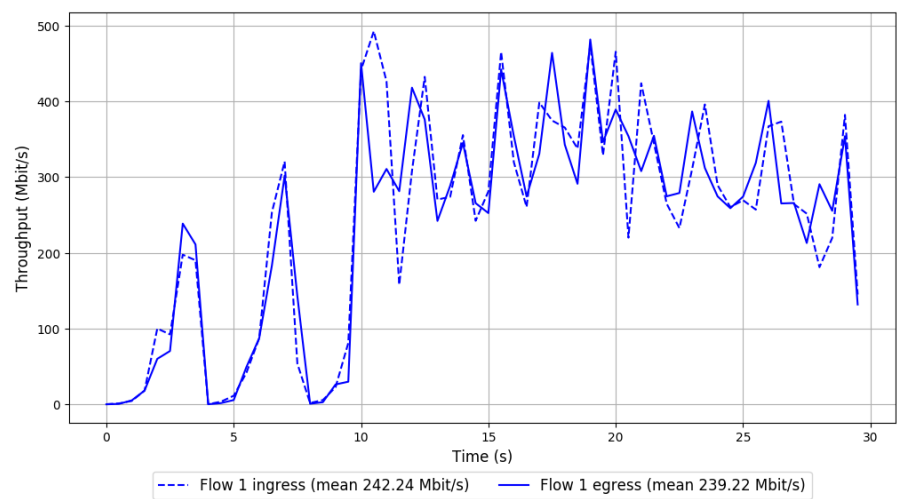
-- Flow 1:

Average throughput: 239.22 Mbit/s

95th percentile per-packet one-way delay: 200.636 ms

Loss rate: 1.24%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2017-11-15 23:01:48

End at: 2017-11-15 23:02:18

Below is generated by plot.py at 2017-11-16 00:58:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 225.23 Mbit/s

95th percentile per-packet one-way delay: 138.299 ms

Loss rate: 0.06%

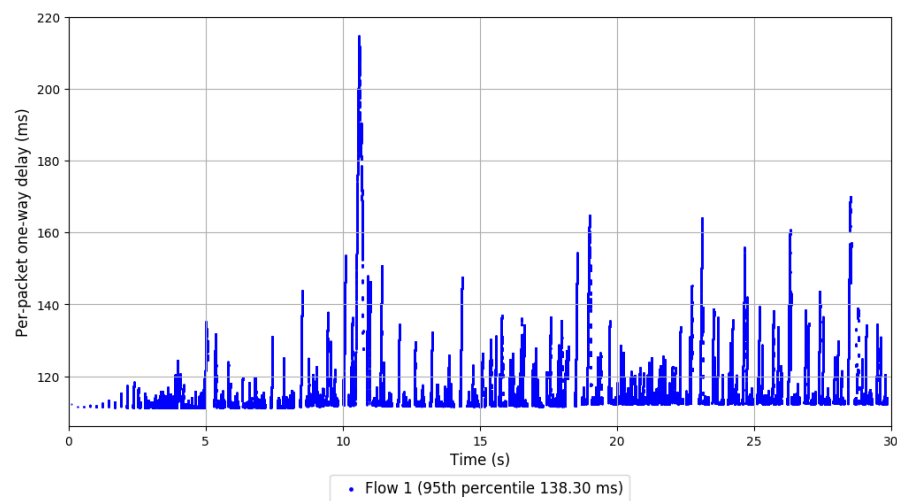
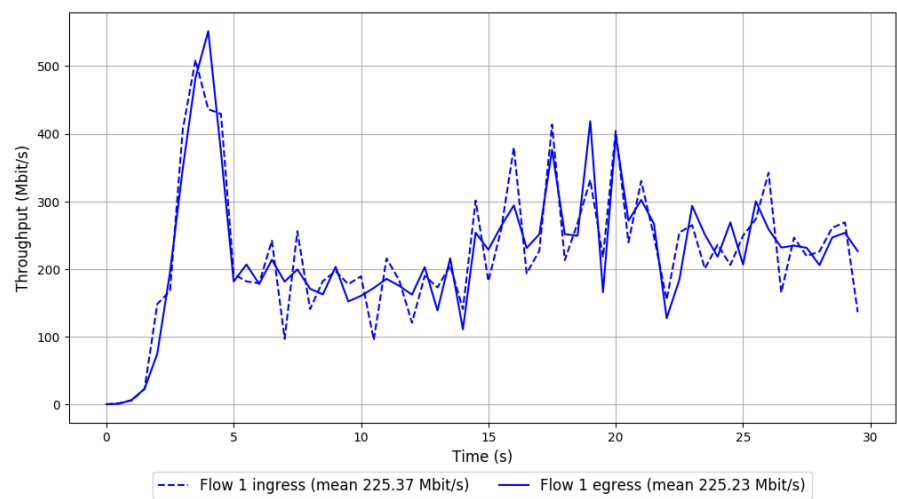
-- Flow 1:

Average throughput: 225.23 Mbit/s

95th percentile per-packet one-way delay: 138.299 ms

Loss rate: 0.06%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2017-11-15 23:12:55

End at: 2017-11-15 23:13:25

Below is generated by plot.py at 2017-11-16 00:58:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 108.76 Mbit/s

95th percentile per-packet one-way delay: 119.929 ms

Loss rate: 0.05%

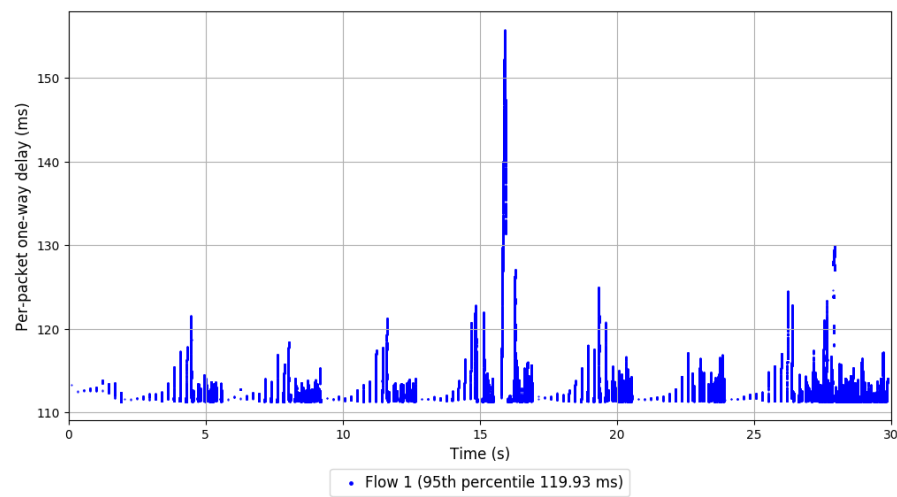
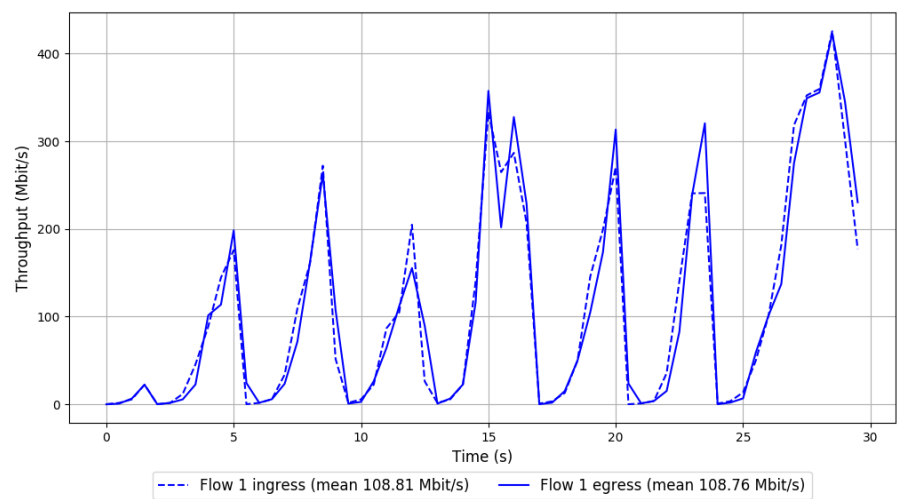
-- Flow 1:

Average throughput: 108.76 Mbit/s

95th percentile per-packet one-way delay: 119.929 ms

Loss rate: 0.05%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2017-11-15 23:23:55

End at: 2017-11-15 23:24:25

Below is generated by plot.py at 2017-11-16 00:59:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 184.10 Mbit/s

95th percentile per-packet one-way delay: 174.401 ms

Loss rate: 0.38%

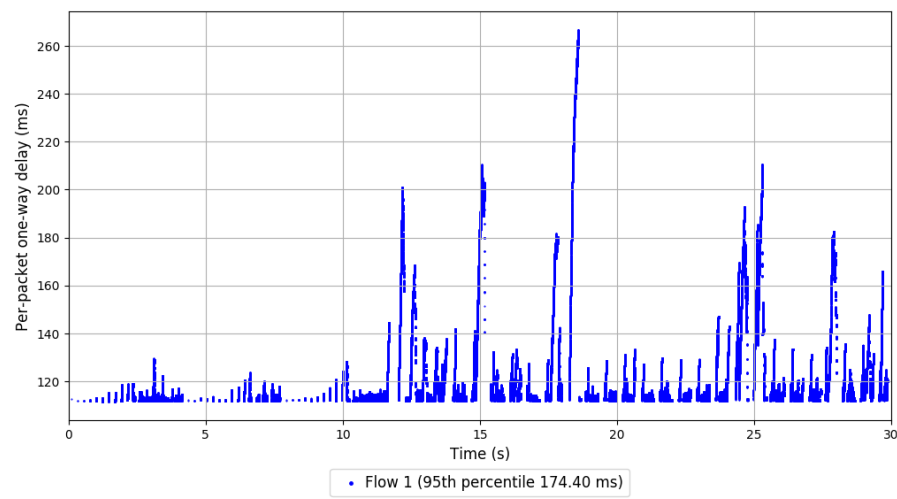
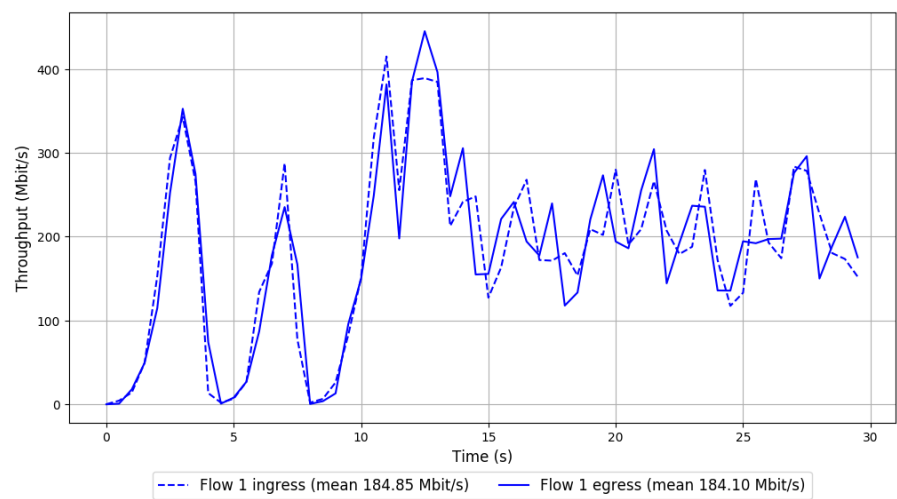
-- Flow 1:

Average throughput: 184.10 Mbit/s

95th percentile per-packet one-way delay: 174.401 ms

Loss rate: 0.38%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2017-11-15 23:34:48

End at: 2017-11-15 23:35:18

Below is generated by plot.py at 2017-11-16 01:00:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 239.33 Mbit/s

95th percentile per-packet one-way delay: 137.742 ms

Loss rate: 0.01%

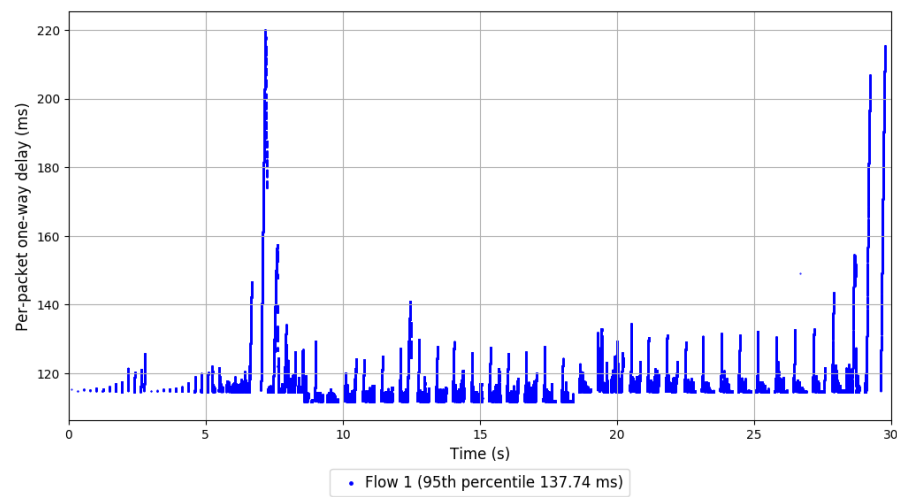
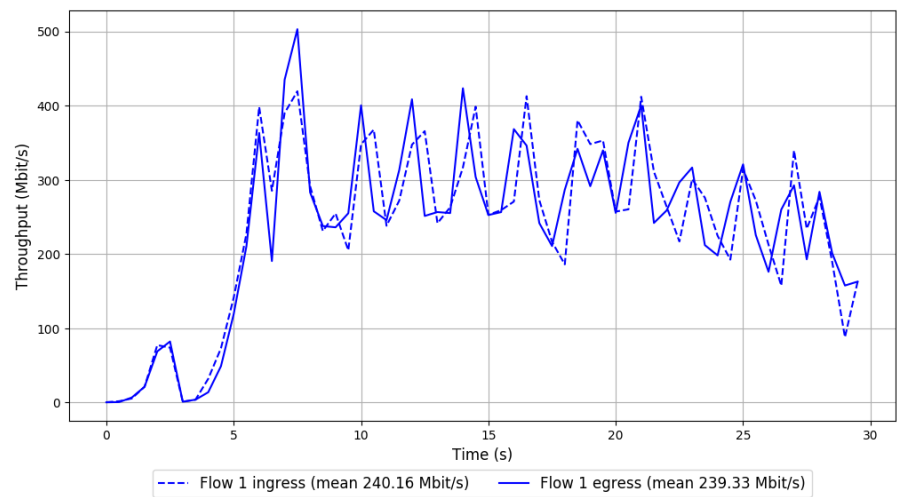
-- Flow 1:

Average throughput: 239.33 Mbit/s

95th percentile per-packet one-way delay: 137.742 ms

Loss rate: 0.01%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2017-11-15 23:45:59

End at: 2017-11-15 23:46:29

Below is generated by plot.py at 2017-11-16 01:00:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 240.54 Mbit/s

95th percentile per-packet one-way delay: 135.449 ms

Loss rate: 0.39%

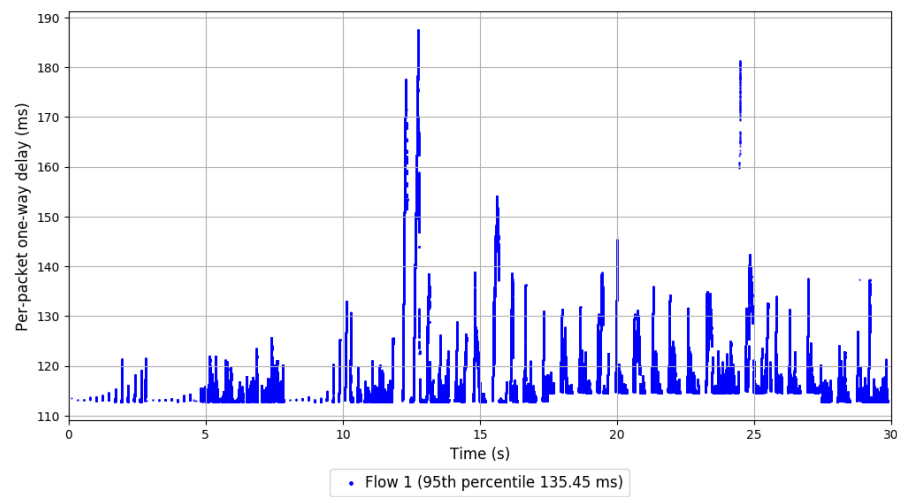
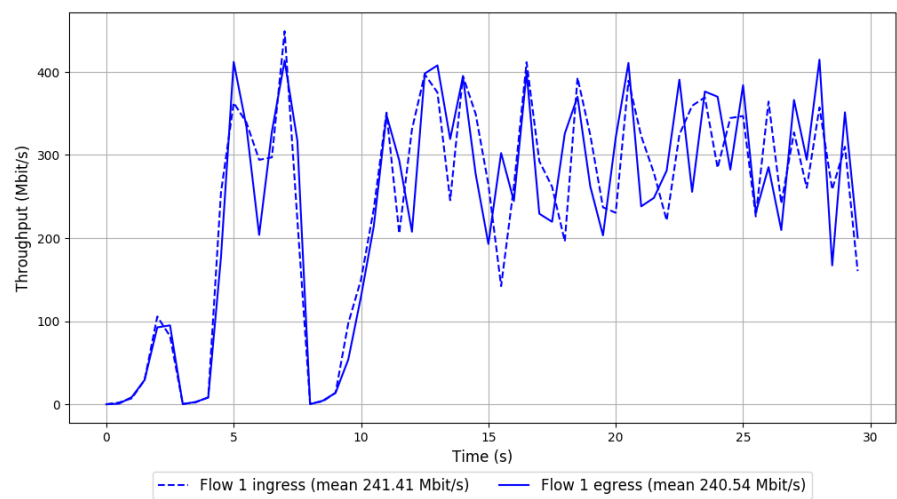
-- Flow 1:

Average throughput: 240.54 Mbit/s

95th percentile per-packet one-way delay: 135.449 ms

Loss rate: 0.39%

Run 10: Report of Verus — Data Link

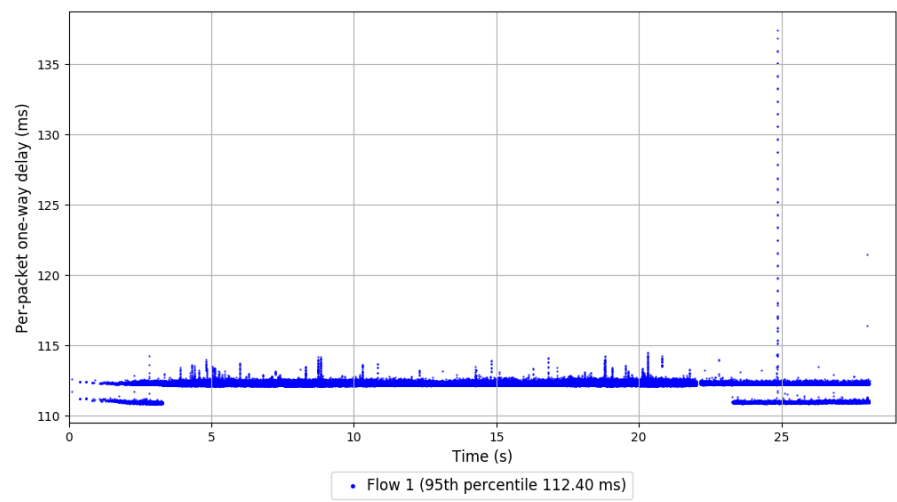
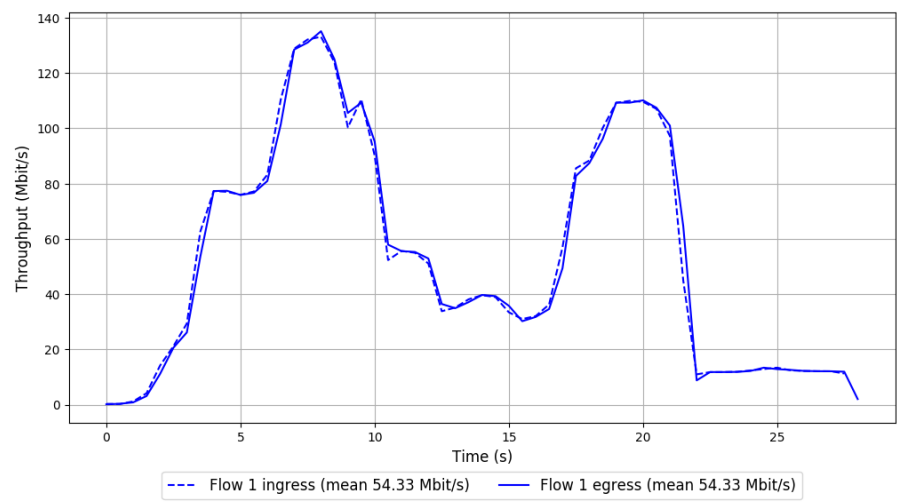


```
Run 1: Statistics of Copa

Start at: 2017-11-15 22:12:22
End at: 2017-11-15 22:12:52

# Below is generated by plot.py at 2017-11-16 01:00:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 54.33 Mbit/s
95th percentile per-packet one-way delay: 112.396 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 54.33 Mbit/s
95th percentile per-packet one-way delay: 112.396 ms
Loss rate: 0.00%
```

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2017-11-15 22:23:07

End at: 2017-11-15 22:23:37

Below is generated by plot.py at 2017-11-16 01:00:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.89 Mbit/s

95th percentile per-packet one-way delay: 112.597 ms

Loss rate: 0.00%

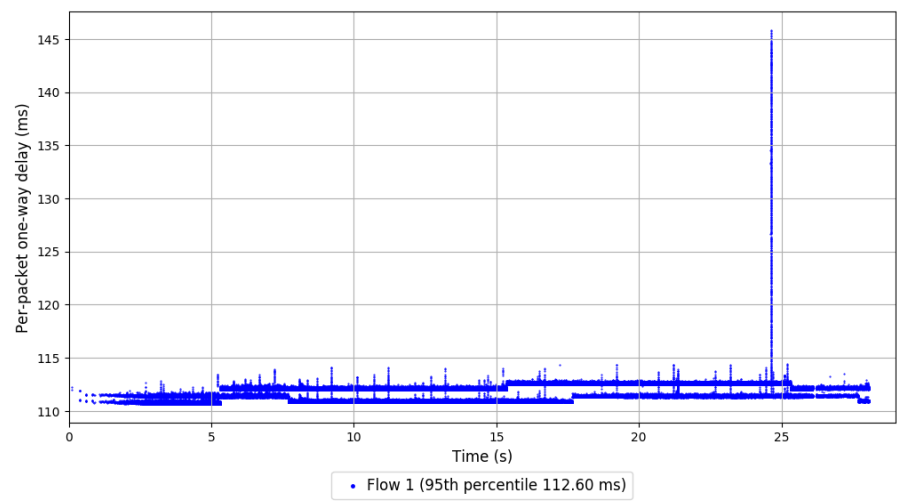
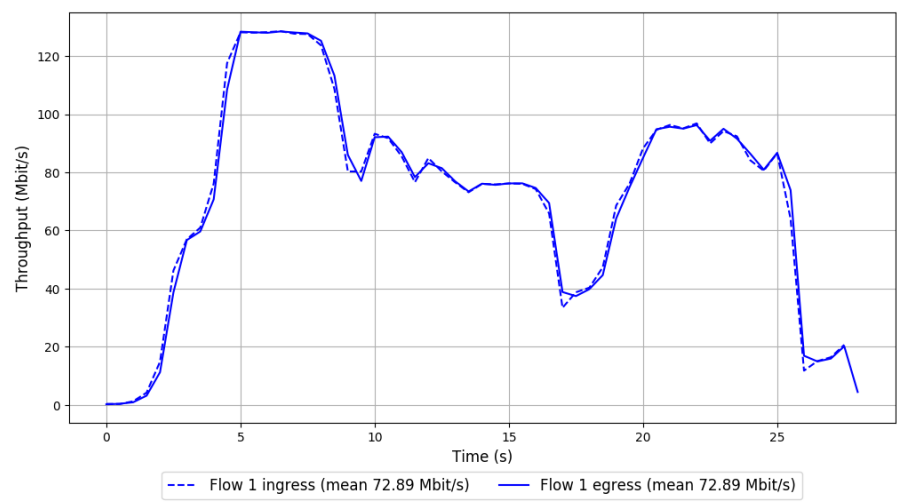
-- Flow 1:

Average throughput: 72.89 Mbit/s

95th percentile per-packet one-way delay: 112.597 ms

Loss rate: 0.00%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2017-11-15 22:34:18

End at: 2017-11-15 22:34:48

Below is generated by plot.py at 2017-11-16 01:00:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 66.39 Mbit/s

95th percentile per-packet one-way delay: 112.326 ms

Loss rate: 0.00%

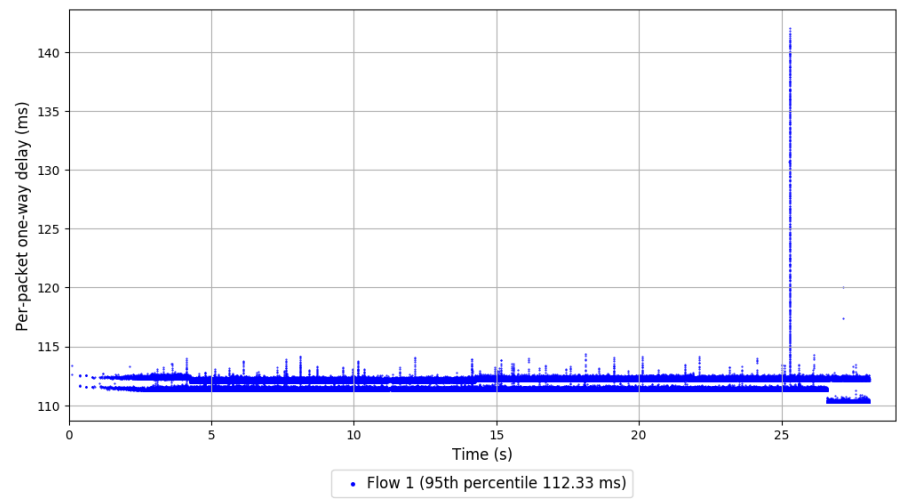
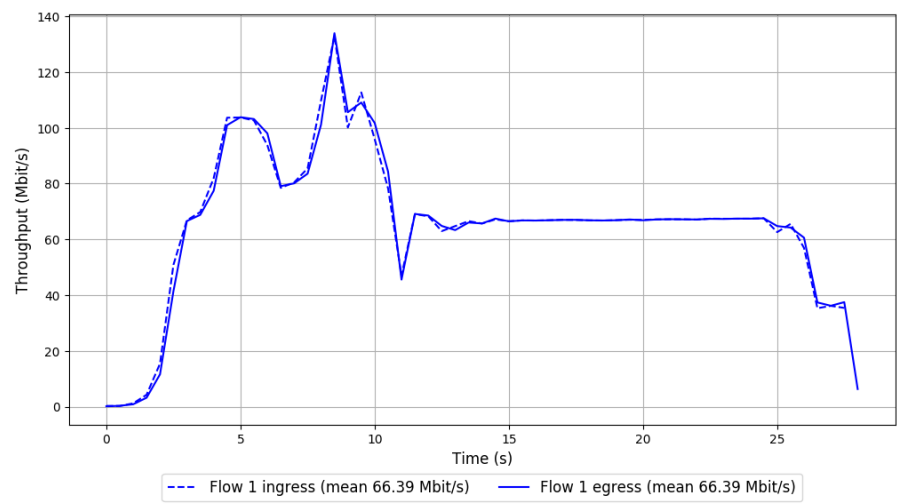
-- Flow 1:

Average throughput: 66.39 Mbit/s

95th percentile per-packet one-way delay: 112.326 ms

Loss rate: 0.00%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2017-11-15 22:45:15

End at: 2017-11-15 22:45:45

Below is generated by plot.py at 2017-11-16 01:00:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.70 Mbit/s

95th percentile per-packet one-way delay: 111.322 ms

Loss rate: 0.00%

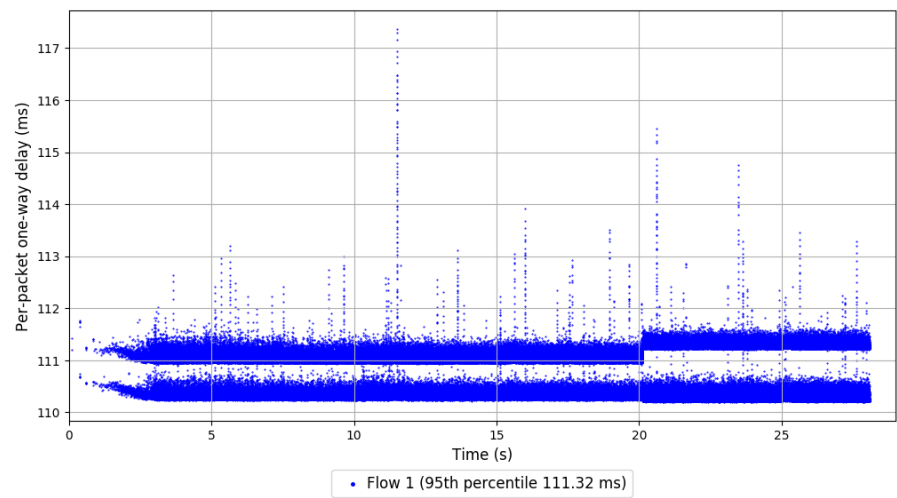
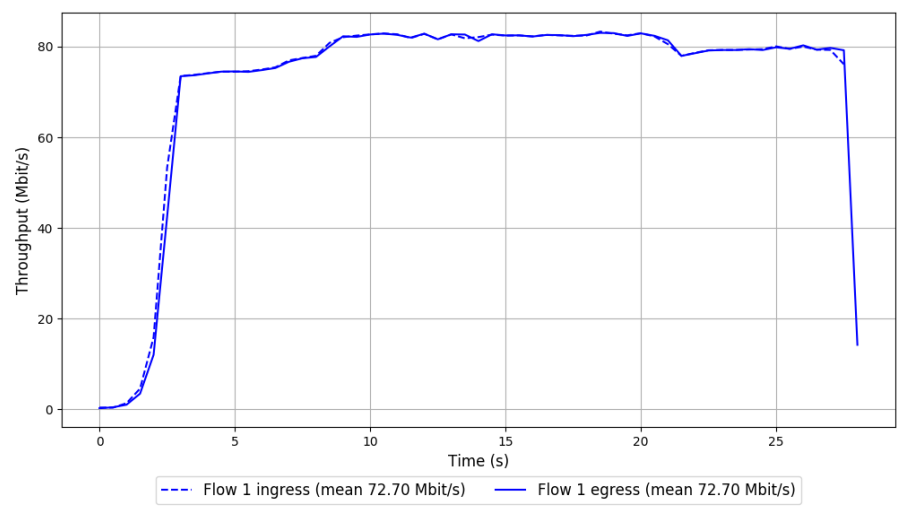
-- Flow 1:

Average throughput: 72.70 Mbit/s

95th percentile per-packet one-way delay: 111.322 ms

Loss rate: 0.00%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2017-11-15 22:56:23

End at: 2017-11-15 22:56:53

Below is generated by plot.py at 2017-11-16 01:00:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.71 Mbit/s

95th percentile per-packet one-way delay: 112.406 ms

Loss rate: 0.00%

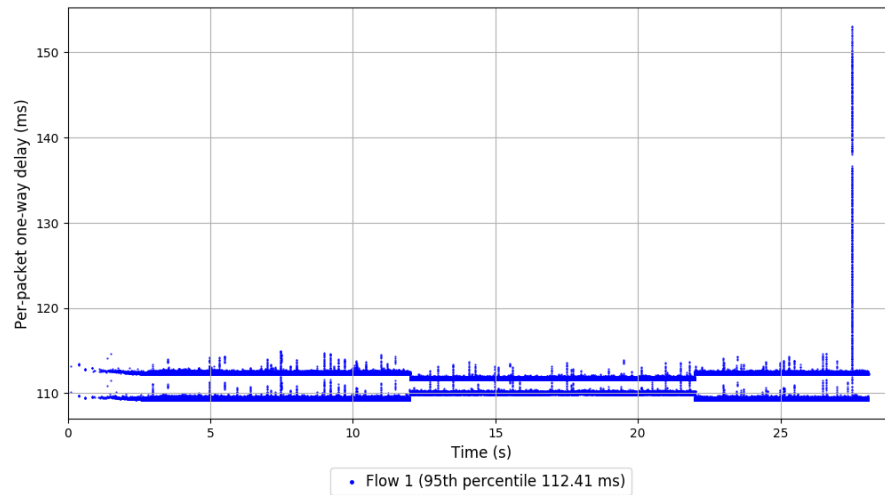
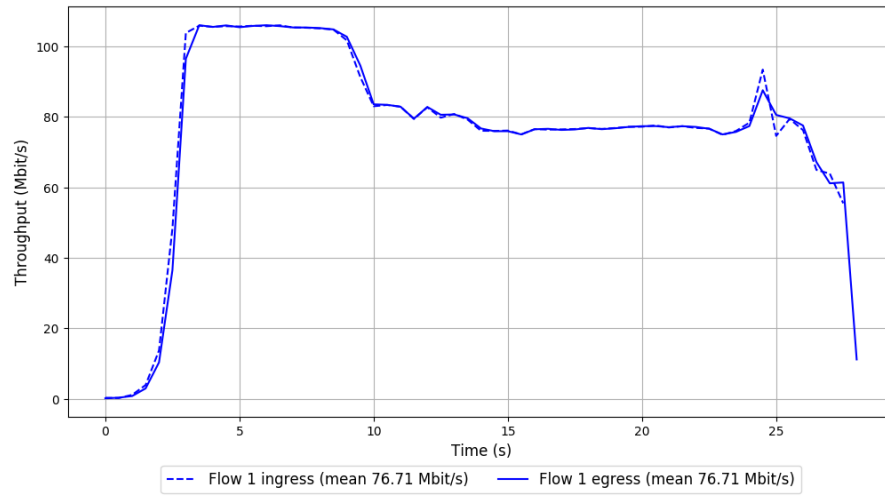
-- Flow 1:

Average throughput: 76.71 Mbit/s

95th percentile per-packet one-way delay: 112.406 ms

Loss rate: 0.00%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2017-11-15 23:07:23

End at: 2017-11-15 23:07:53

Below is generated by plot.py at 2017-11-16 01:01:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.23 Mbit/s

95th percentile per-packet one-way delay: 112.295 ms

Loss rate: 0.00%

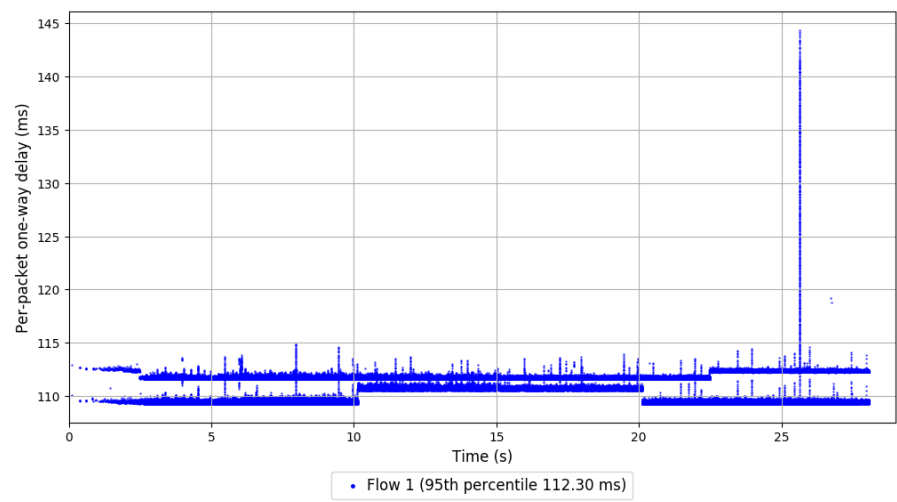
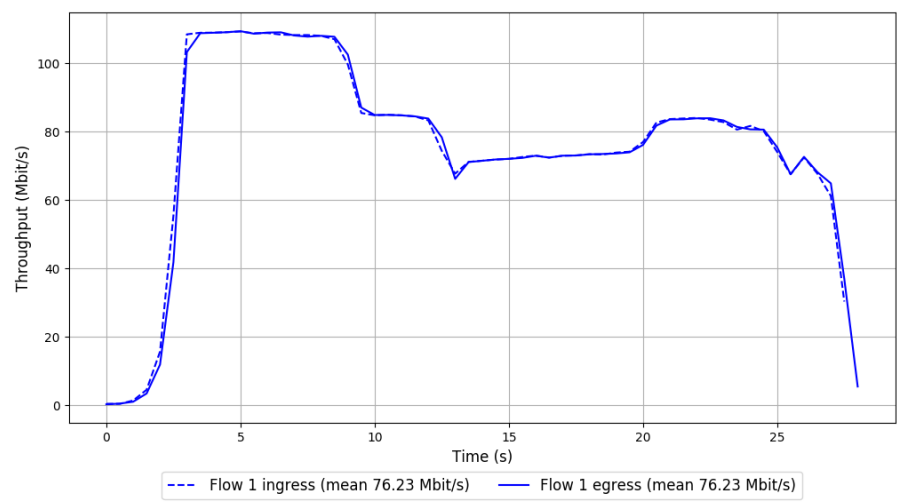
-- Flow 1:

Average throughput: 76.23 Mbit/s

95th percentile per-packet one-way delay: 112.295 ms

Loss rate: 0.00%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2017-11-15 23:18:30

End at: 2017-11-15 23:19:00

Below is generated by plot.py at 2017-11-16 01:01:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 46.07 Mbit/s

95th percentile per-packet one-way delay: 112.017 ms

Loss rate: 0.00%

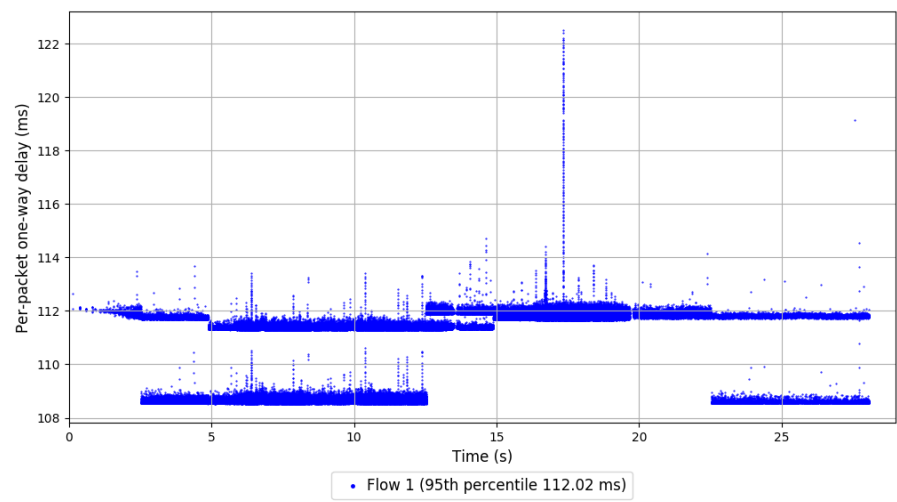
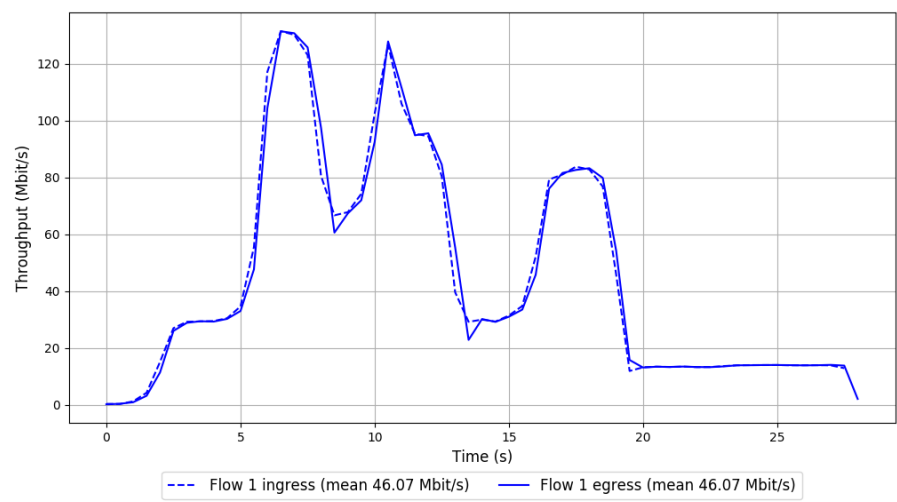
-- Flow 1:

Average throughput: 46.07 Mbit/s

95th percentile per-packet one-way delay: 112.017 ms

Loss rate: 0.00%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2017-11-15 23:29:27

End at: 2017-11-15 23:29:57

Below is generated by plot.py at 2017-11-16 01:01:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 56.83 Mbit/s

95th percentile per-packet one-way delay: 114.739 ms

Loss rate: 0.00%

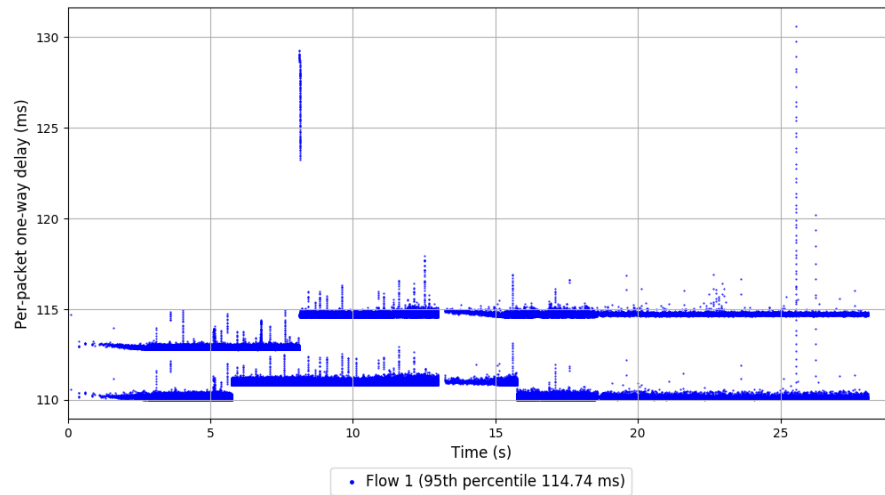
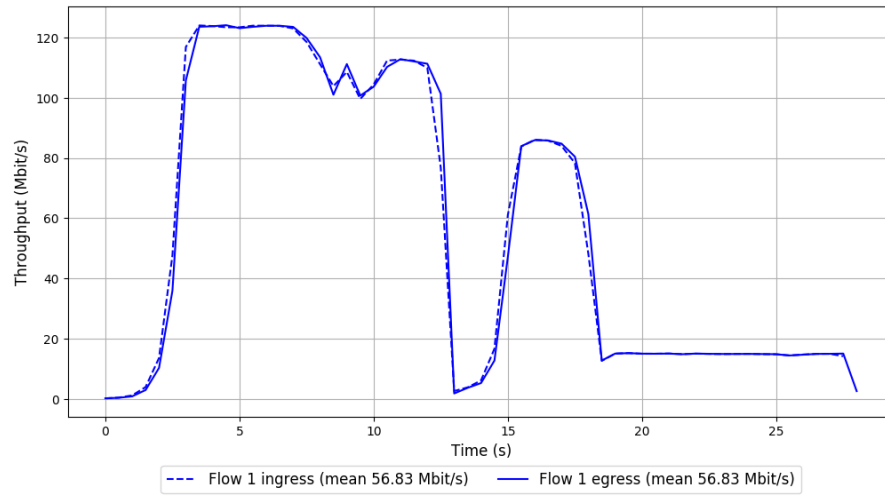
-- Flow 1:

Average throughput: 56.83 Mbit/s

95th percentile per-packet one-way delay: 114.739 ms

Loss rate: 0.00%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2017-11-15 23:40:29

End at: 2017-11-15 23:40:59

Below is generated by plot.py at 2017-11-16 01:01:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.38 Mbit/s

95th percentile per-packet one-way delay: 114.683 ms

Loss rate: 0.01%

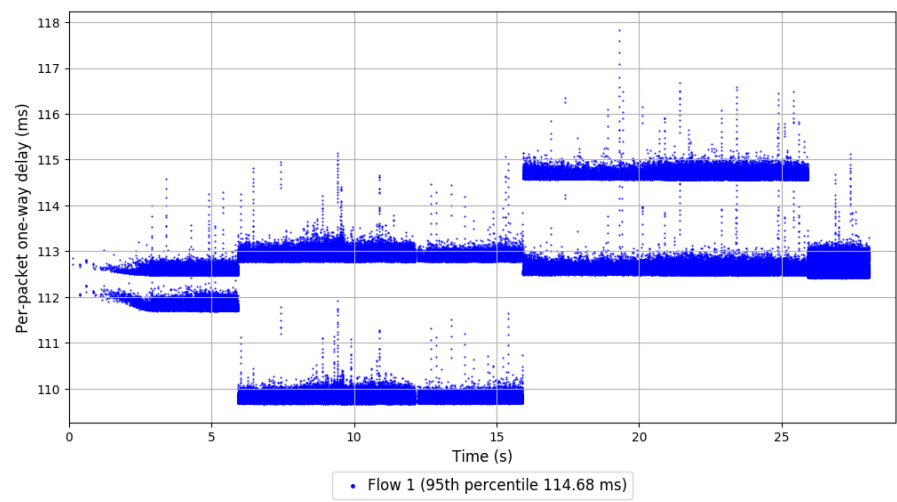
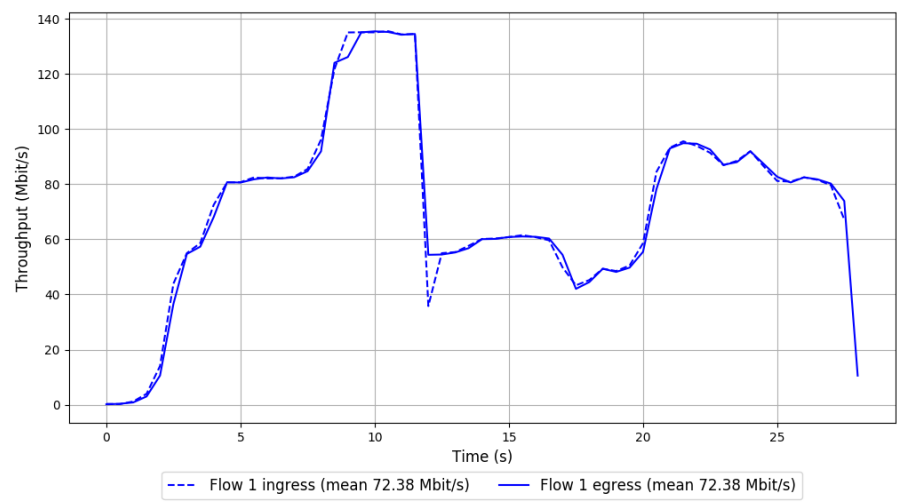
-- Flow 1:

Average throughput: 72.38 Mbit/s

95th percentile per-packet one-way delay: 114.683 ms

Loss rate: 0.01%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2017-11-15 23:51:39

End at: 2017-11-15 23:52:09

Below is generated by plot.py at 2017-11-16 01:02:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.73 Mbit/s

95th percentile per-packet one-way delay: 114.731 ms

Loss rate: 0.00%

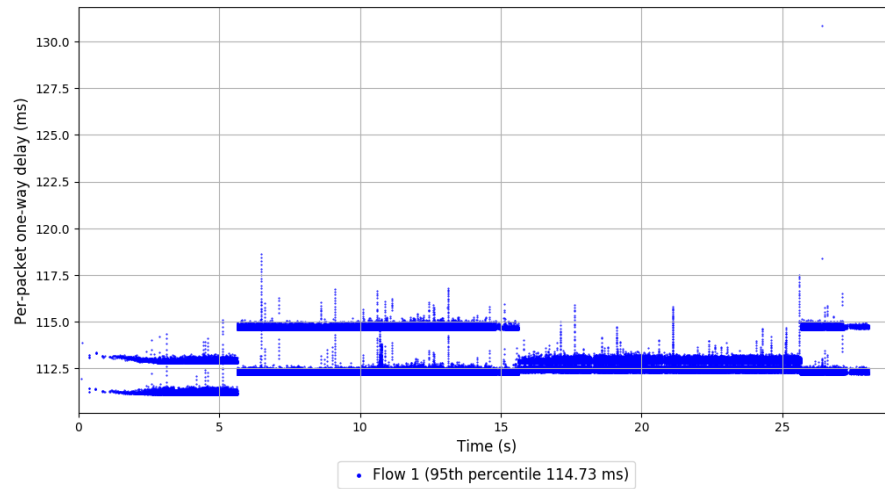
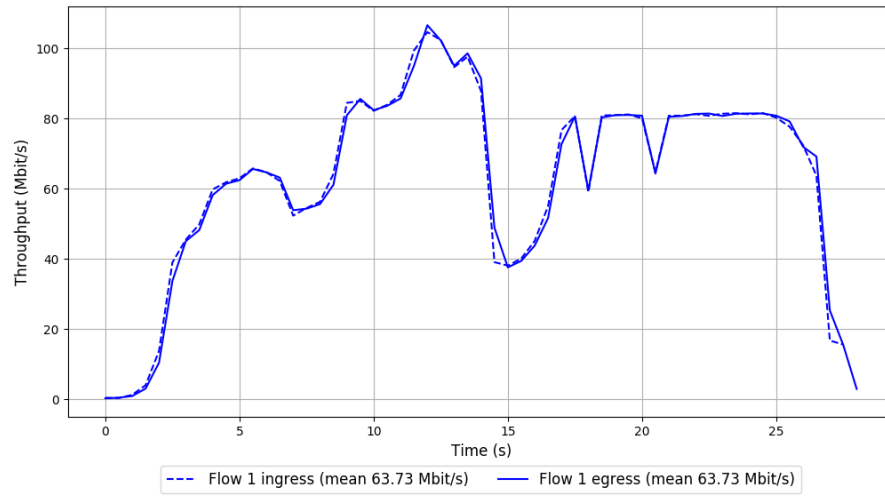
-- Flow 1:

Average throughput: 63.73 Mbit/s

95th percentile per-packet one-way delay: 114.731 ms

Loss rate: 0.00%

Run 10: Report of Copa — Data Link

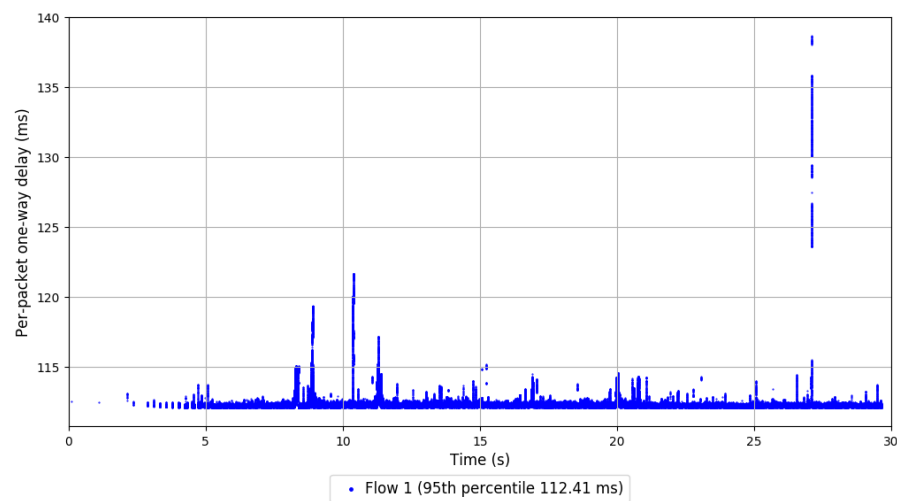
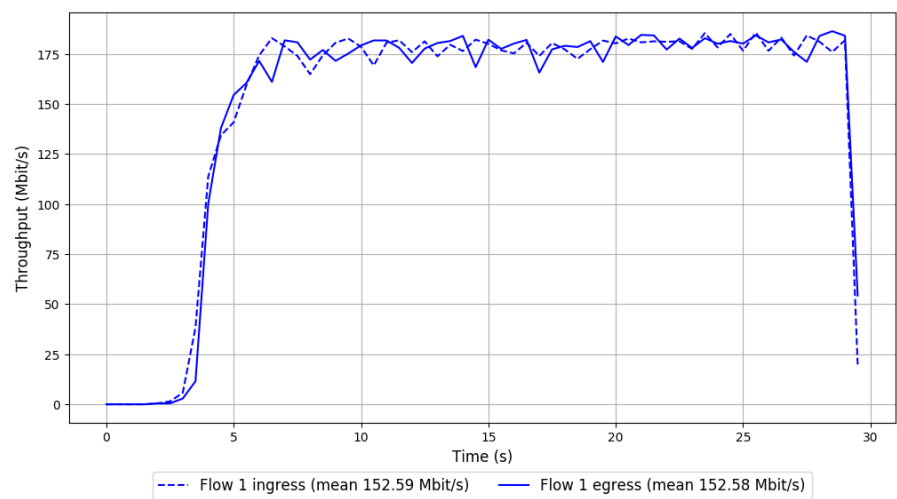


```
Run 1: Statistics of Indigo

Start at: 2017-11-15 22:08:35
End at: 2017-11-15 22:09:05

# Below is generated by plot.py at 2017-11-16 01:03:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 152.58 Mbit/s
95th percentile per-packet one-way delay: 112.410 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 152.58 Mbit/s
95th percentile per-packet one-way delay: 112.410 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo — Data Link

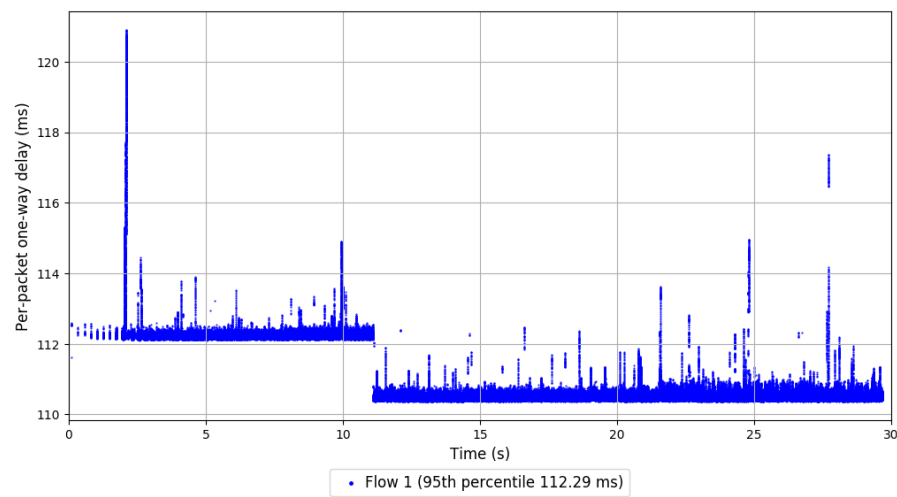
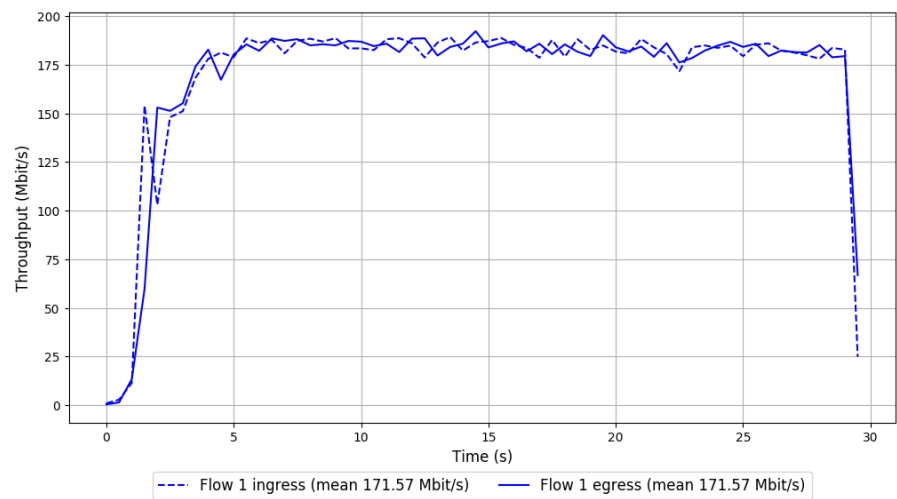


```
Run 2: Statistics of Indigo

Start at: 2017-11-15 22:19:15
End at: 2017-11-15 22:19:45

# Below is generated by plot.py at 2017-11-16 01:03:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 171.57 Mbit/s
95th percentile per-packet one-way delay: 112.286 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 171.57 Mbit/s
95th percentile per-packet one-way delay: 112.286 ms
Loss rate: 0.00%
```

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2017-11-15 22:30:25

End at: 2017-11-15 22:30:55

Below is generated by plot.py at 2017-11-16 01:03:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 172.31 Mbit/s

95th percentile per-packet one-way delay: 111.452 ms

Loss rate: 0.00%

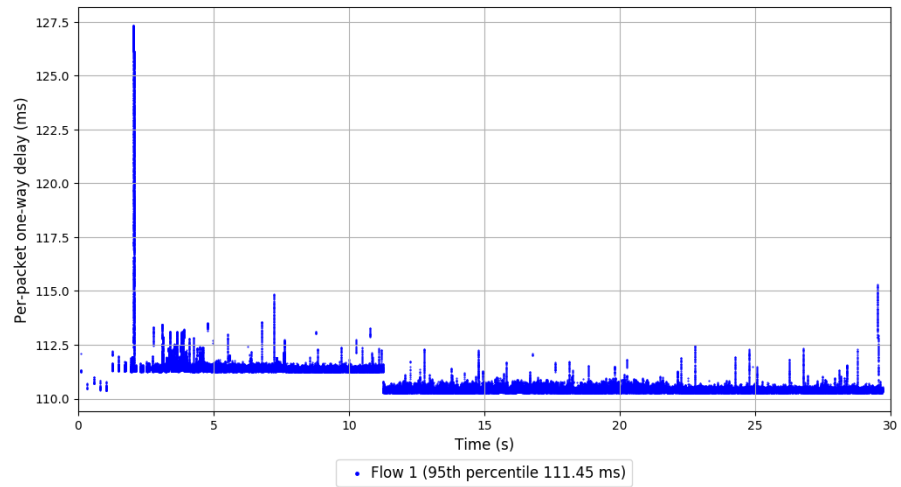
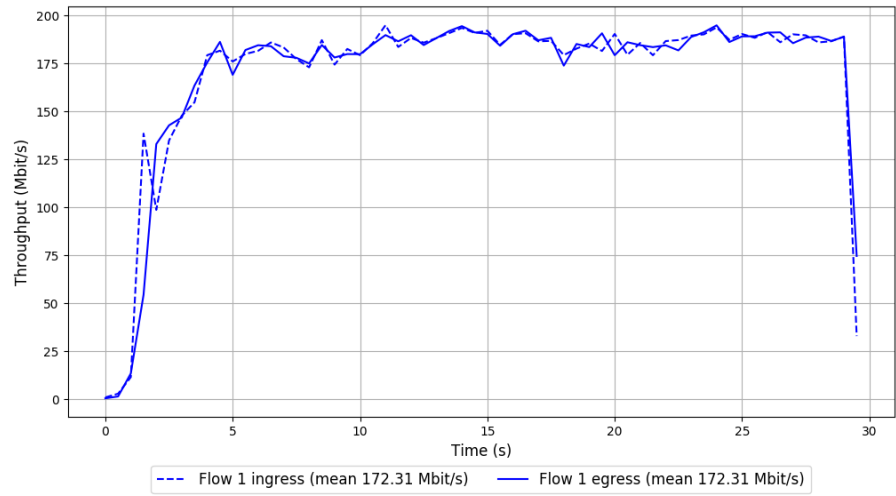
-- Flow 1:

Average throughput: 172.31 Mbit/s

95th percentile per-packet one-way delay: 111.452 ms

Loss rate: 0.00%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2017-11-15 22:41:22

End at: 2017-11-15 22:41:52

Below is generated by plot.py at 2017-11-16 01:04:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 172.23 Mbit/s

95th percentile per-packet one-way delay: 111.688 ms

Loss rate: 0.00%

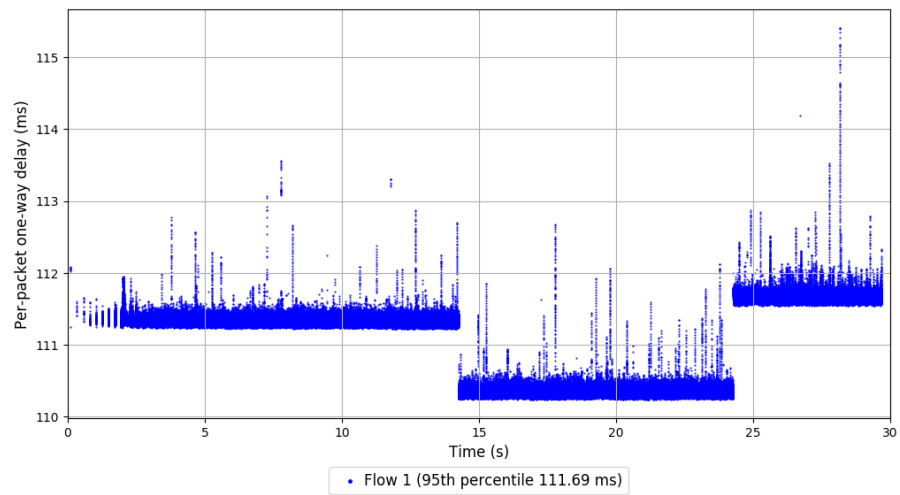
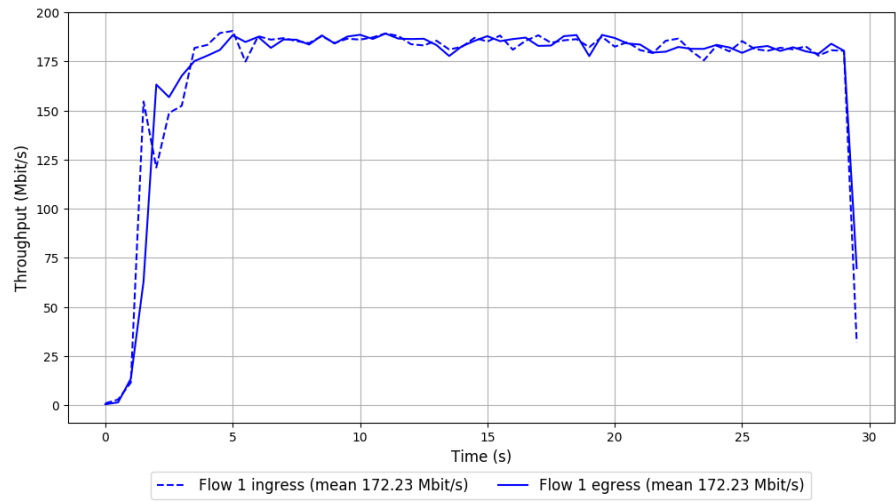
-- Flow 1:

Average throughput: 172.23 Mbit/s

95th percentile per-packet one-way delay: 111.688 ms

Loss rate: 0.00%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2017-11-15 22:52:31

End at: 2017-11-15 22:53:01

Below is generated by plot.py at 2017-11-16 01:04:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 172.52 Mbit/s

95th percentile per-packet one-way delay: 112.296 ms

Loss rate: 0.00%

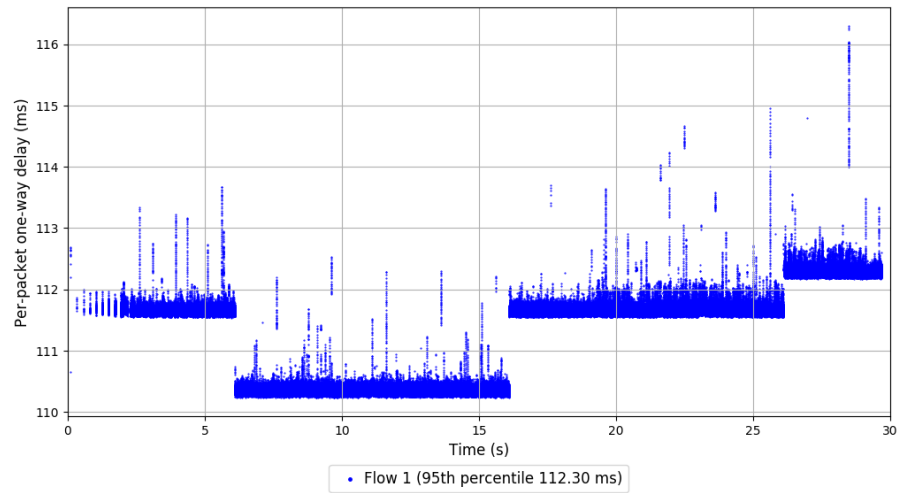
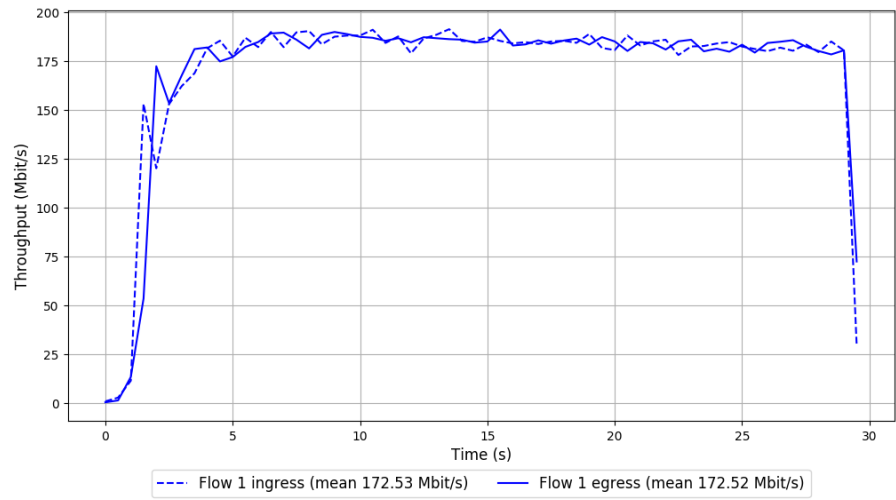
-- Flow 1:

Average throughput: 172.52 Mbit/s

95th percentile per-packet one-way delay: 112.296 ms

Loss rate: 0.00%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2017-11-15 23:03:29

End at: 2017-11-15 23:03:59

Below is generated by plot.py at 2017-11-16 01:04:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 174.98 Mbit/s

95th percentile per-packet one-way delay: 112.410 ms

Loss rate: 0.01%

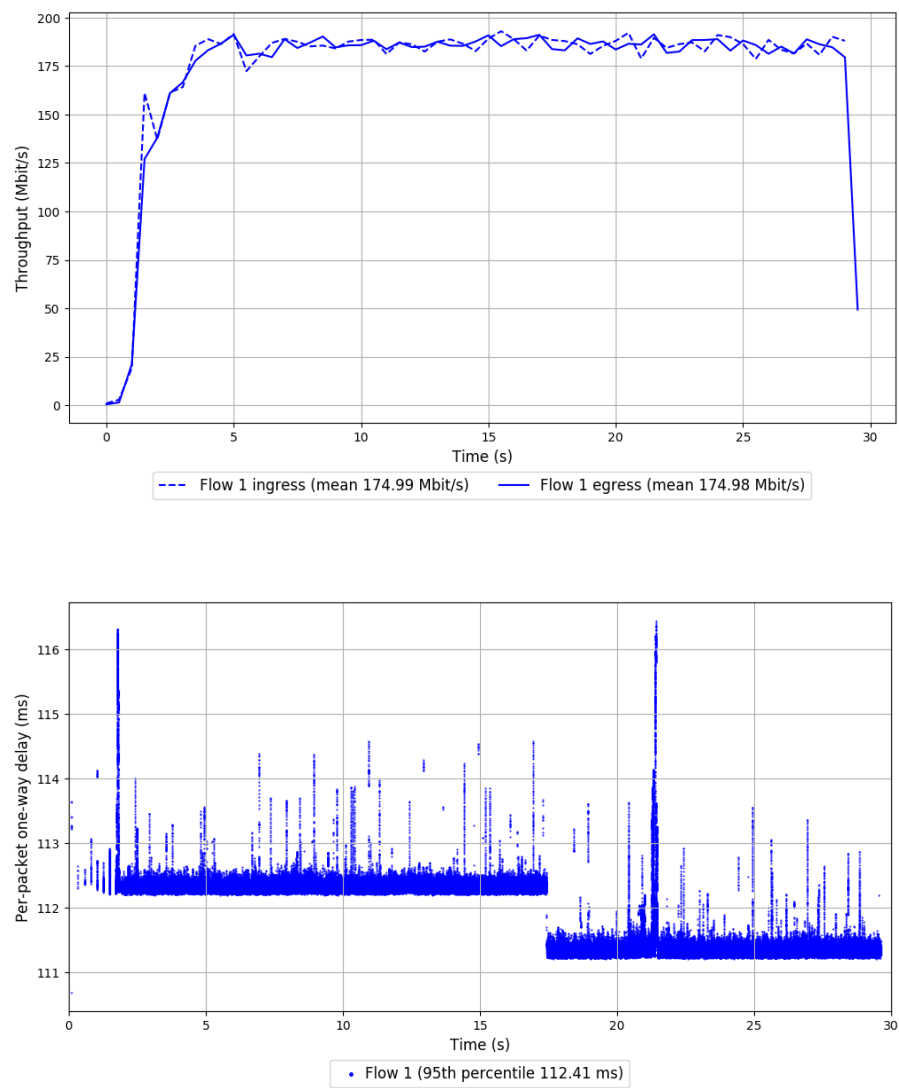
-- Flow 1:

Average throughput: 174.98 Mbit/s

95th percentile per-packet one-way delay: 112.410 ms

Loss rate: 0.01%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2017-11-15 23:14:36

End at: 2017-11-15 23:15:06

Below is generated by plot.py at 2017-11-16 01:04:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 170.26 Mbit/s

95th percentile per-packet one-way delay: 112.460 ms

Loss rate: 0.00%

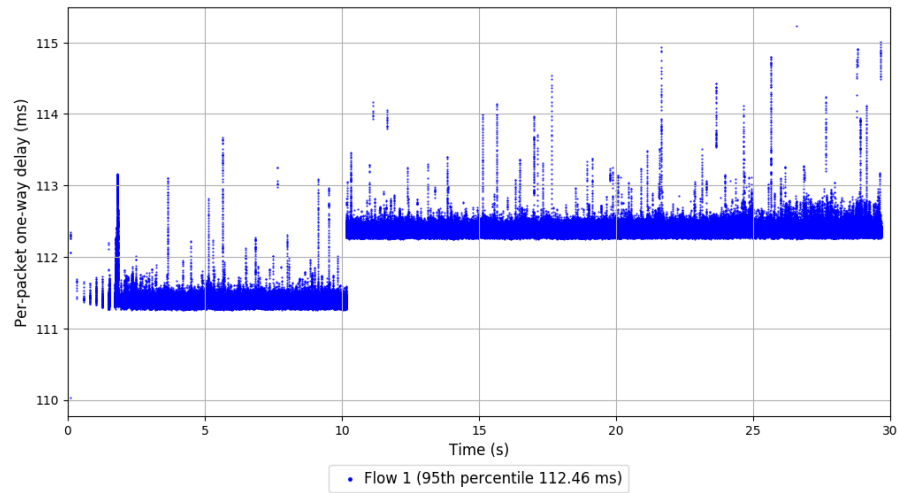
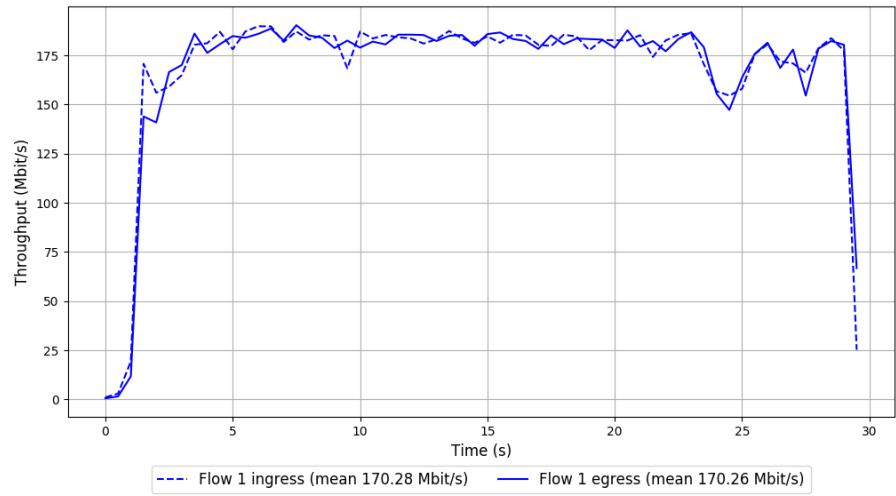
-- Flow 1:

Average throughput: 170.26 Mbit/s

95th percentile per-packet one-way delay: 112.460 ms

Loss rate: 0.00%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2017-11-15 23:25:33

End at: 2017-11-15 23:26:03

Below is generated by plot.py at 2017-11-16 01:05:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 171.15 Mbit/s

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

Loss rate: 0.02%

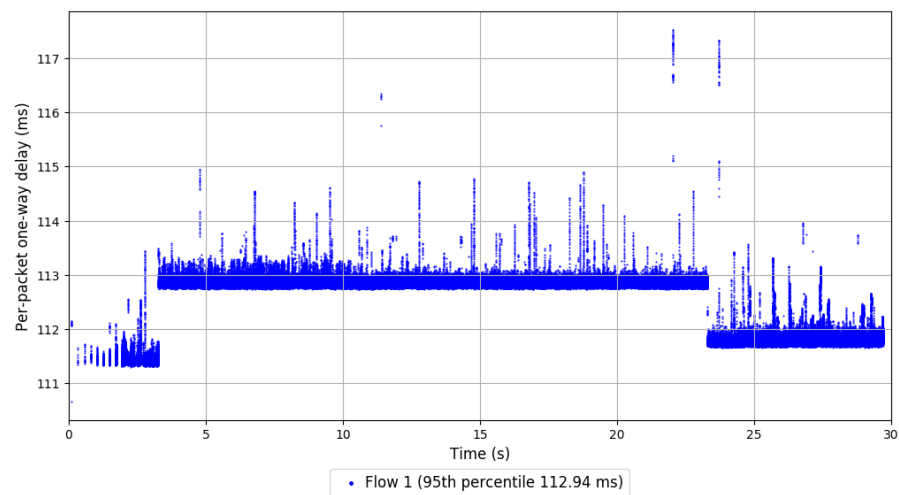
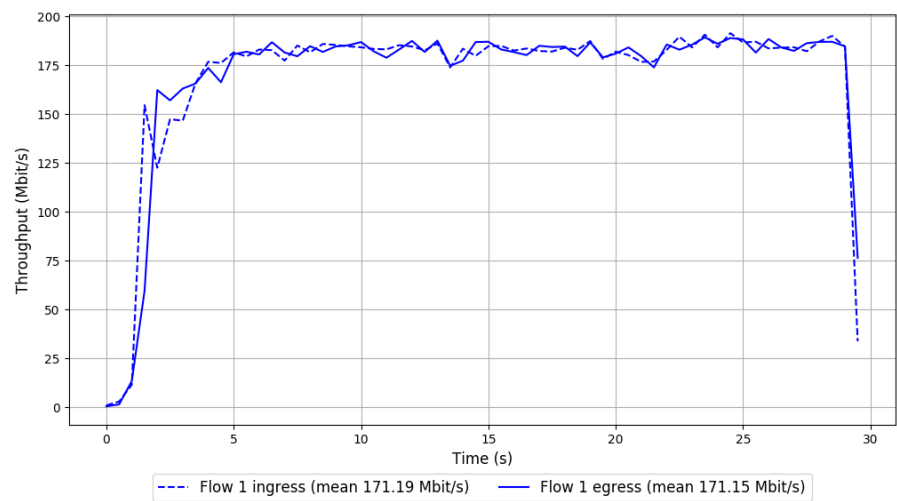
-- Flow 1:

Average throughput: 171.15 Mbit/s

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

Loss rate: 0.02%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2017-11-15 23:36:36

End at: 2017-11-15 23:37:06

Below is generated by plot.py at 2017-11-16 01:06:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 168.56 Mbit/s

95th percentile per-packet one-way delay: 114.877 ms

Loss rate: 0.00%

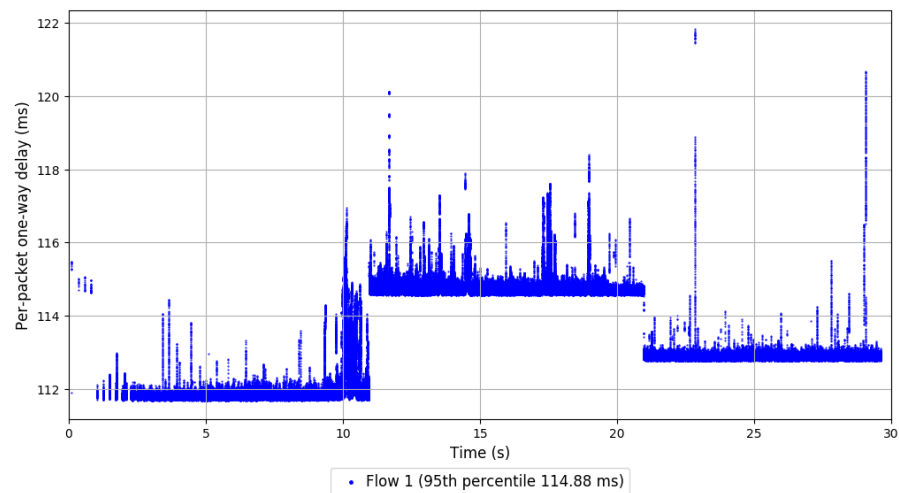
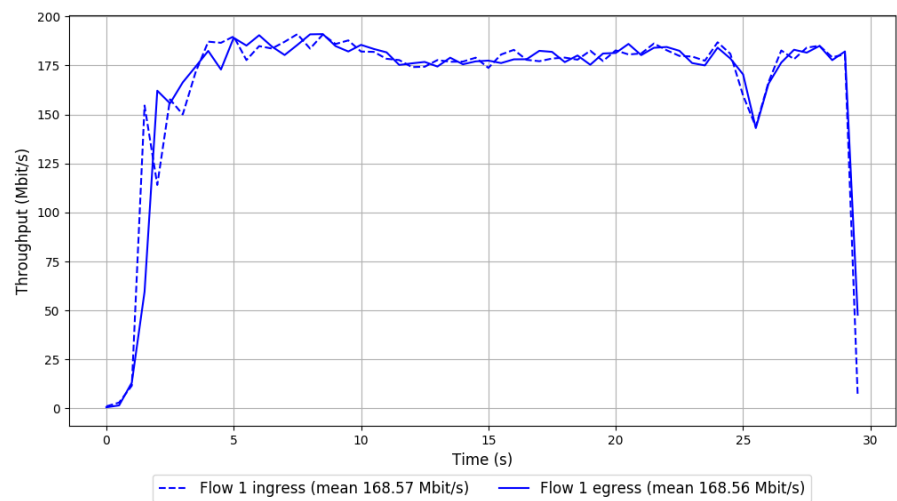
-- Flow 1:

Average throughput: 168.56 Mbit/s

95th percentile per-packet one-way delay: 114.877 ms

Loss rate: 0.00%

Run 9: Report of Indigo — Data Link

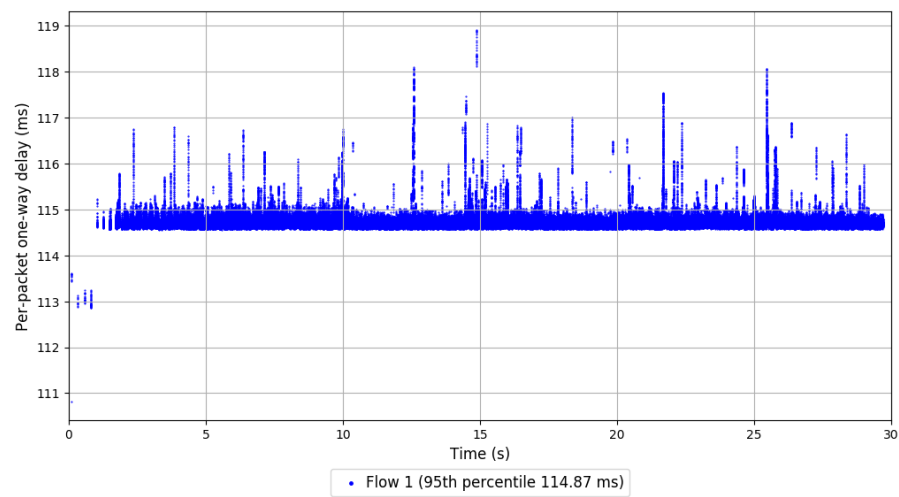
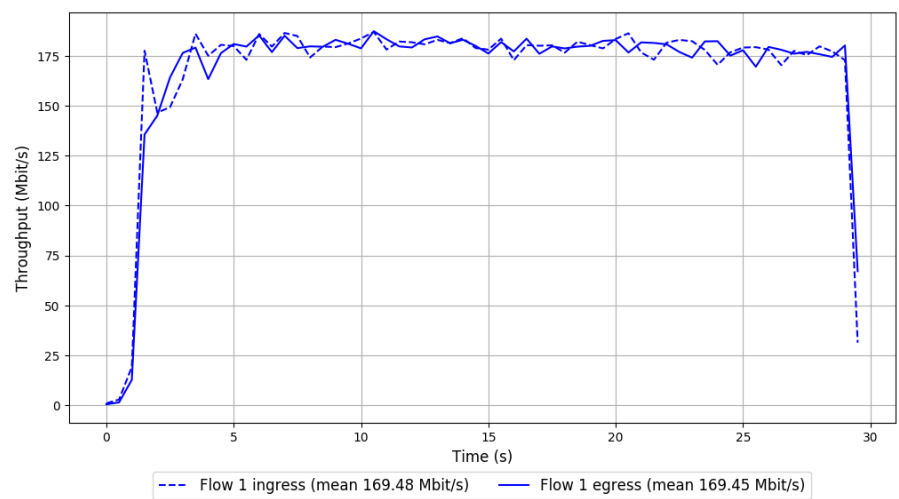


```
Run 10: Statistics of Indigo

Start at: 2017-11-15 23:47:46
End at: 2017-11-15 23:48:16

# Below is generated by plot.py at 2017-11-16 01:06:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 169.45 Mbit/s
95th percentile per-packet one-way delay: 114.870 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 169.45 Mbit/s
95th percentile per-packet one-way delay: 114.870 ms
Loss rate: 0.01%
```

Run 10: Report of Indigo — Data Link

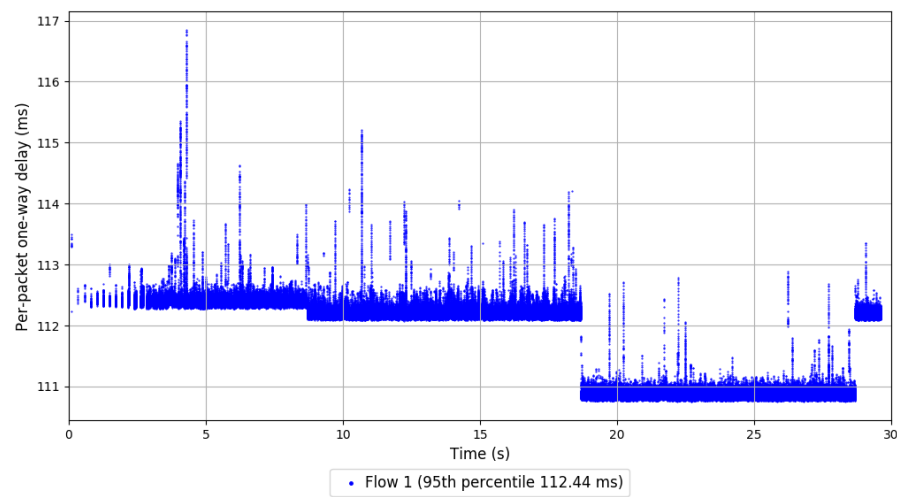
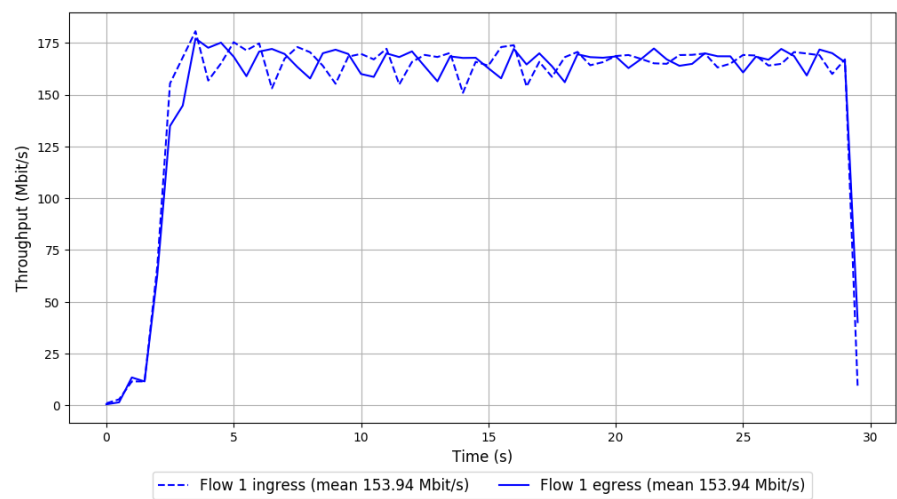


```
Run 1: Statistics of Indigo-calib

Start at: 2017-11-15 22:10:08
End at: 2017-11-15 22:10:38

# Below is generated by plot.py at 2017-11-16 01:06:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 153.94 Mbit/s
95th percentile per-packet one-way delay: 112.442 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 153.94 Mbit/s
95th percentile per-packet one-way delay: 112.442 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo-calib — Data Link

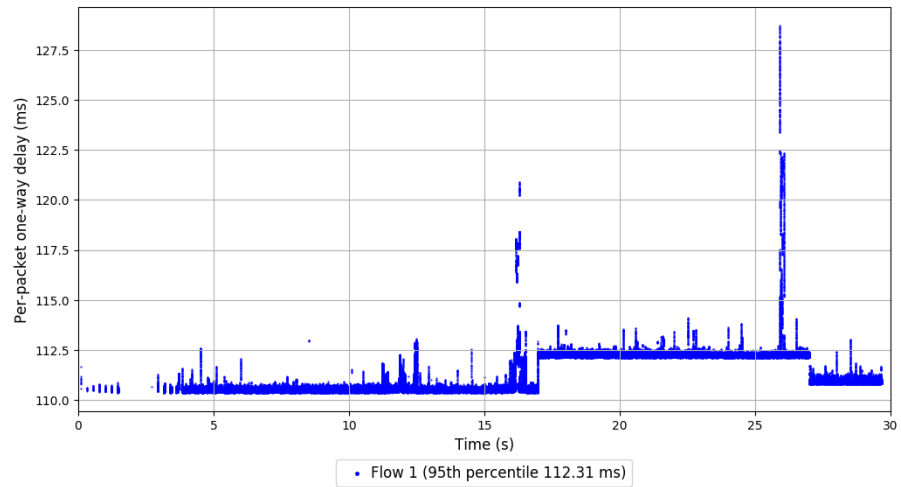
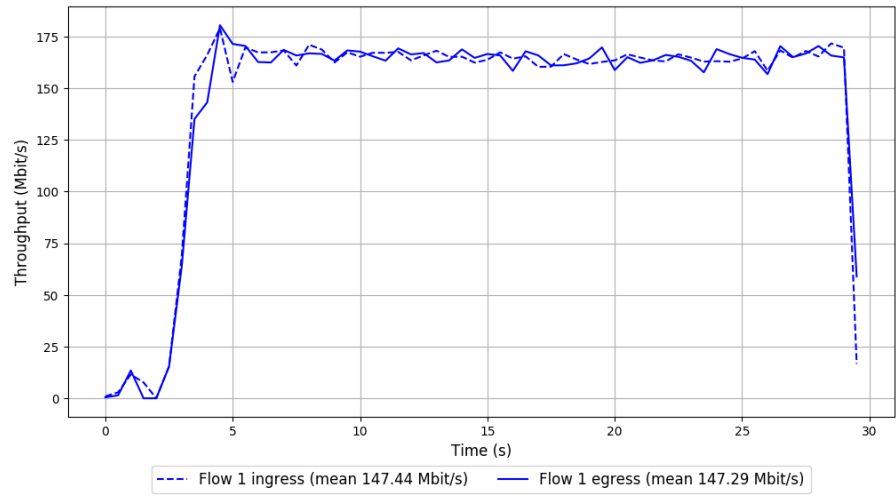


```
Run 2: Statistics of Indigo-calib

Start at: 2017-11-15 22:20:50
End at: 2017-11-15 22:21:20

# Below is generated by plot.py at 2017-11-16 01:06:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 147.29 Mbit/s
95th percentile per-packet one-way delay: 112.309 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 147.29 Mbit/s
95th percentile per-packet one-way delay: 112.309 ms
Loss rate: 0.10%
```

Run 2: Report of Indigo-calib — Data Link

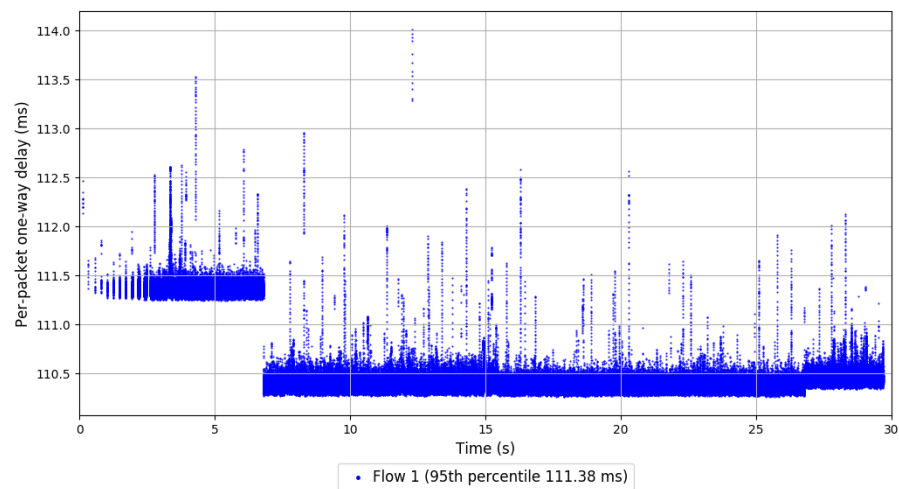
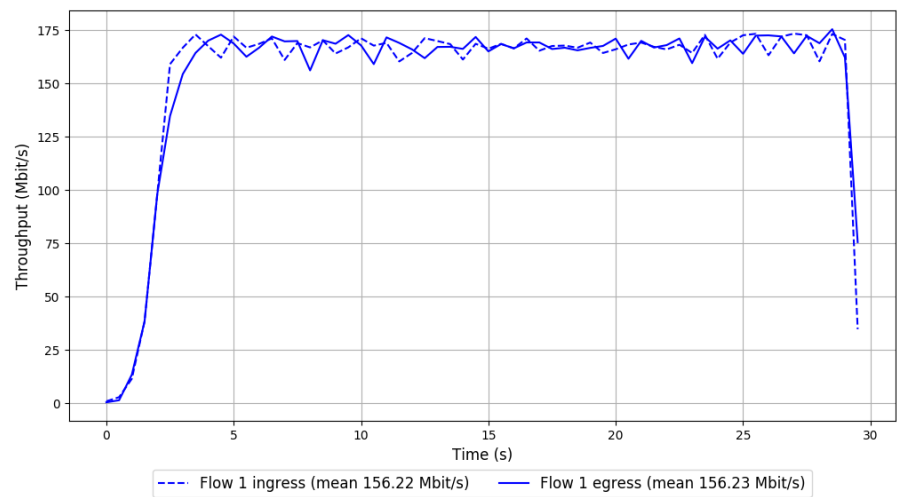


```
Run 3: Statistics of Indigo-calib

Start at: 2017-11-15 22:32:00
End at: 2017-11-15 22:32:30

# Below is generated by plot.py at 2017-11-16 01:06:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 156.23 Mbit/s
95th percentile per-packet one-way delay: 111.381 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 156.23 Mbit/s
95th percentile per-packet one-way delay: 111.381 ms
Loss rate: 0.00%
```

Run 3: Report of Indigo-calib — Data Link



Run 4: Statistics of Indigo-calib

Start at: 2017-11-15 22:42:57

End at: 2017-11-15 22:43:27

Below is generated by plot.py at 2017-11-16 01:07:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 154.61 Mbit/s

95th percentile per-packet one-way delay: 111.401 ms

Loss rate: 0.23%

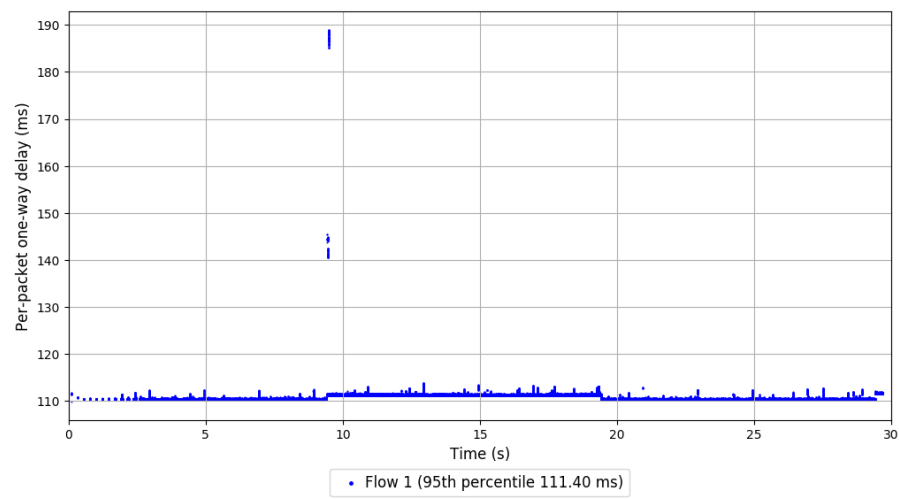
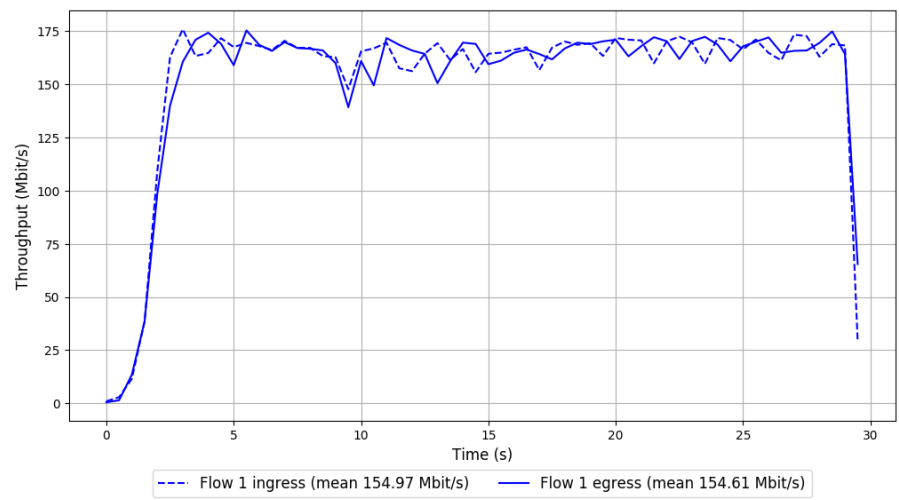
-- Flow 1:

Average throughput: 154.61 Mbit/s

95th percentile per-packet one-way delay: 111.401 ms

Loss rate: 0.23%

Run 4: Report of Indigo-calib — Data Link



Run 5: Statistics of Indigo-calib

Start at: 2017-11-15 22:54:05

End at: 2017-11-15 22:54:35

Below is generated by plot.py at 2017-11-16 01:07:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 152.39 Mbit/s

95th percentile per-packet one-way delay: 111.748 ms

Loss rate: 0.00%

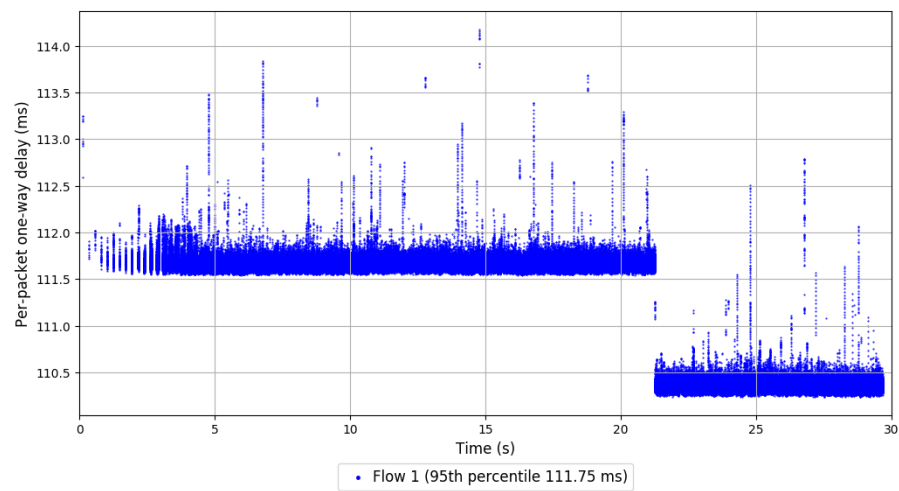
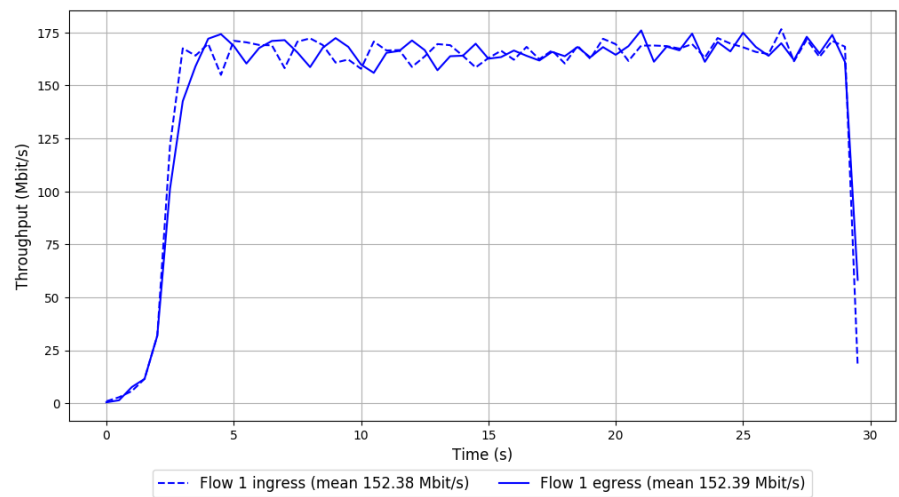
-- Flow 1:

Average throughput: 152.39 Mbit/s

95th percentile per-packet one-way delay: 111.748 ms

Loss rate: 0.00%

Run 5: Report of Indigo-calib — Data Link



Run 6: Statistics of Indigo-calib

Start at: 2017-11-15 23:05:04

End at: 2017-11-15 23:05:34

Below is generated by plot.py at 2017-11-16 01:07:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 154.16 Mbit/s

95th percentile per-packet one-way delay: 112.659 ms

Loss rate: 0.01%

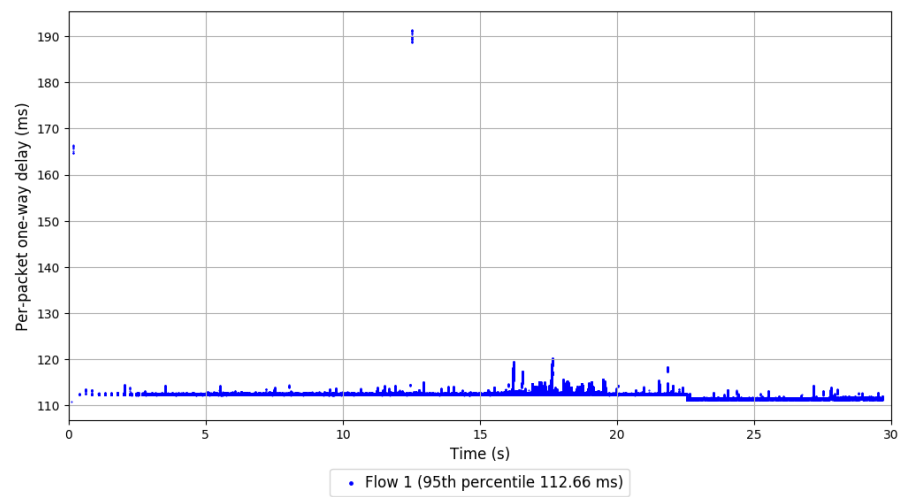
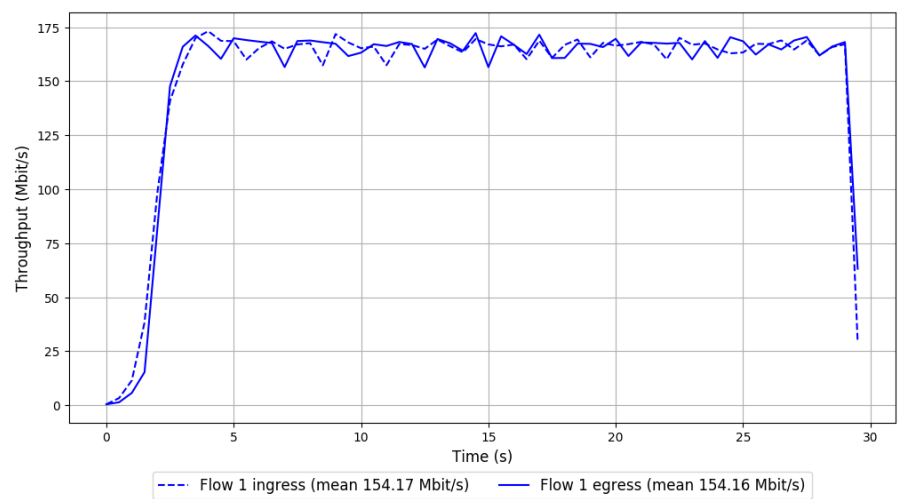
-- Flow 1:

Average throughput: 154.16 Mbit/s

95th percentile per-packet one-way delay: 112.659 ms

Loss rate: 0.01%

Run 6: Report of Indigo-calib — Data Link



Run 7: Statistics of Indigo-calib

Start at: 2017-11-15 23:16:11

End at: 2017-11-15 23:16:41

Below is generated by plot.py at 2017-11-16 01:08:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 154.38 Mbit/s

95th percentile per-packet one-way delay: 112.397 ms

Loss rate: 0.00%

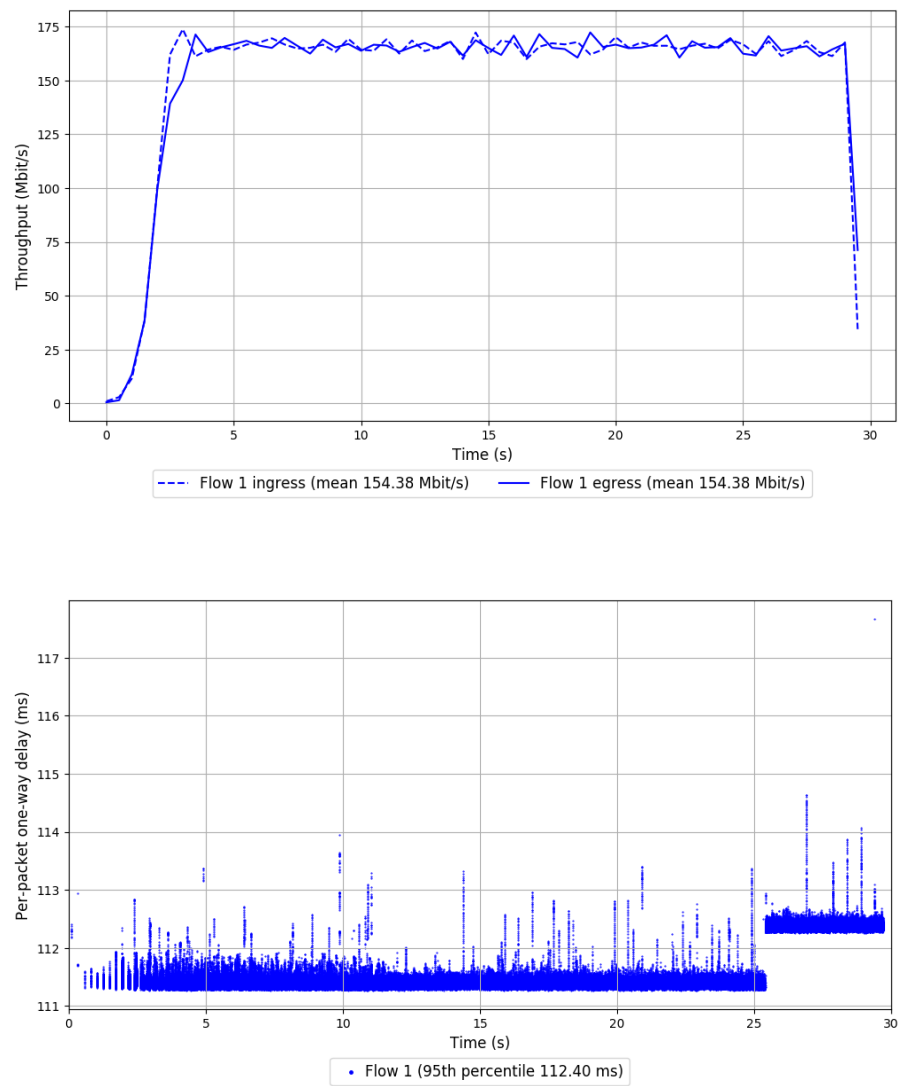
-- Flow 1:

Average throughput: 154.38 Mbit/s

95th percentile per-packet one-way delay: 112.397 ms

Loss rate: 0.00%

Run 7: Report of Indigo-calib — Data Link



Run 8: Statistics of Indigo-calib

Start at: 2017-11-15 23:27:08

End at: 2017-11-15 23:27:38

Below is generated by plot.py at 2017-11-16 01:08:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 151.99 Mbit/s

95th percentile per-packet one-way delay: 112.957 ms

Loss rate: 0.19%

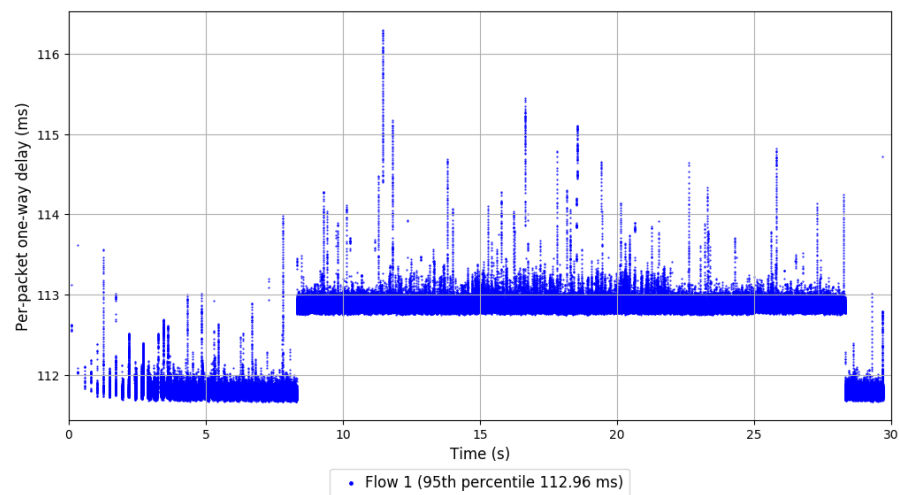
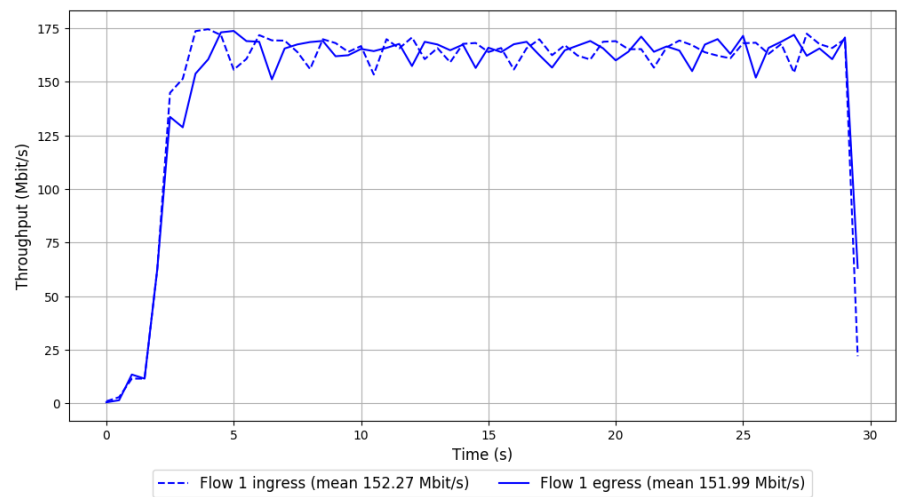
-- Flow 1:

Average throughput: 151.99 Mbit/s

95th percentile per-packet one-way delay: 112.957 ms

Loss rate: 0.19%

Run 8: Report of Indigo-calib — Data Link

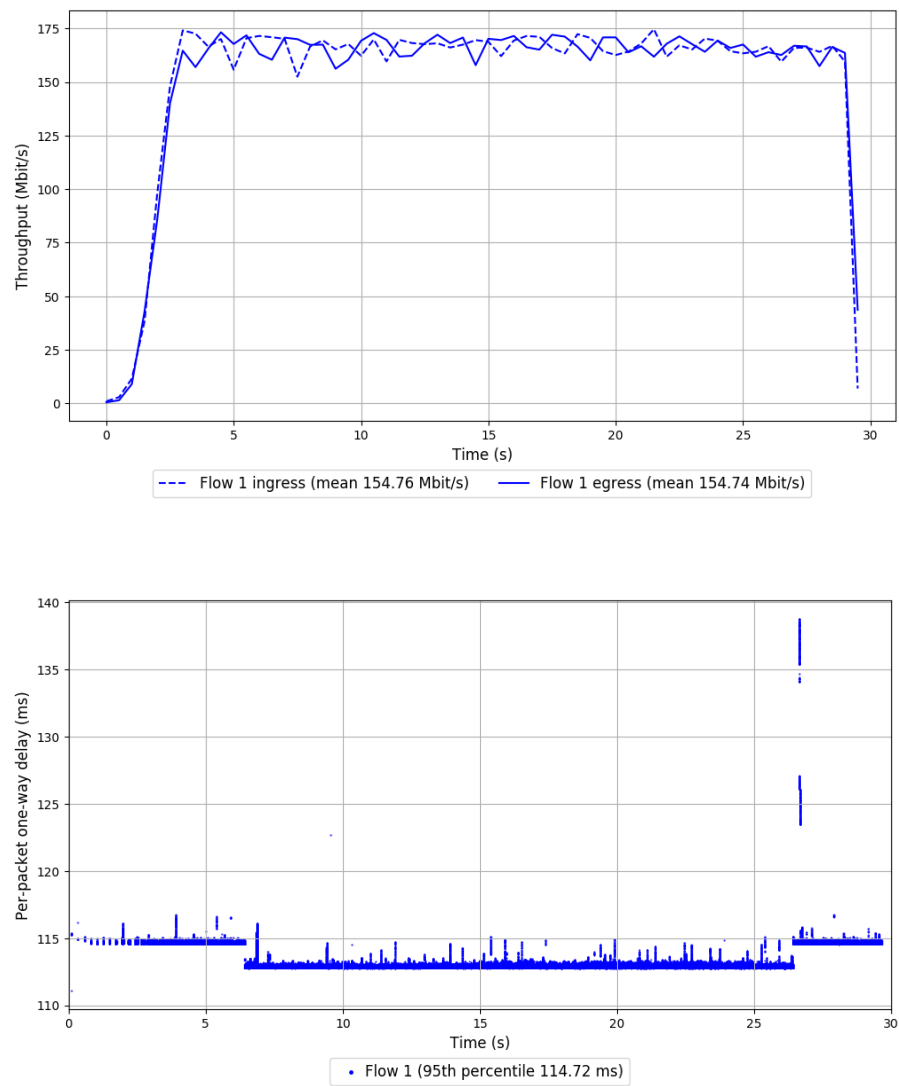


```
Run 9: Statistics of Indigo-calib

Start at: 2017-11-15 23:38:10
End at: 2017-11-15 23:38:40

# Below is generated by plot.py at 2017-11-16 01:08:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 154.74 Mbit/s
95th percentile per-packet one-way delay: 114.718 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 154.74 Mbit/s
95th percentile per-packet one-way delay: 114.718 ms
Loss rate: 0.01%
```

Run 9: Report of Indigo-calib — Data Link



Run 10: Statistics of Indigo-calib

Start at: 2017-11-15 23:49:20

End at: 2017-11-15 23:49:50

Below is generated by plot.py at 2017-11-16 01:08:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 154.93 Mbit/s

95th percentile per-packet one-way delay: 114.756 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 154.93 Mbit/s

95th percentile per-packet one-way delay: 114.756 ms

Loss rate: 0.00%

Run 10: Report of Indigo-calib — Data Link

