

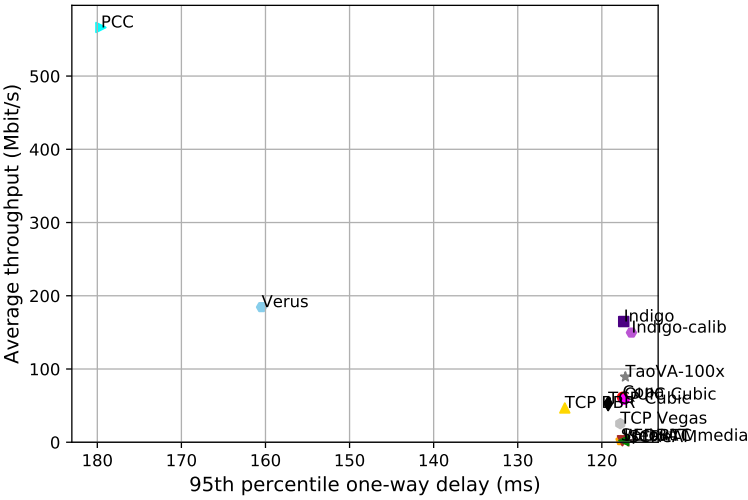
Pantheon Report

Generated at 2017-11-30 10:12:48 (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**).

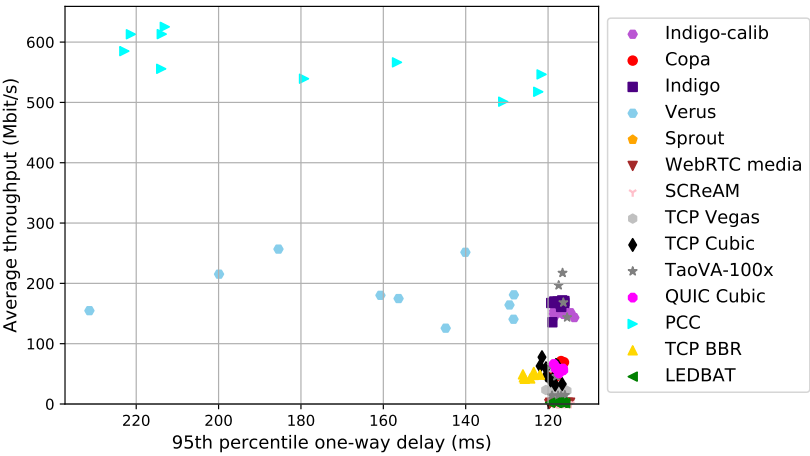
Git summary:

```
branch: indigos @ e3a57ad5ac5cfcaca0e3f983c8dd4cc3509e0262
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/genericCC @ b5b7c38e8391001927dc41c6cfa2627d03dde737
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	7	46.83	124.40	0.45
TCP Cubic	10	52.72	119.25	0.09
LEDBAT	10	2.10	117.39	0.27
PCC	10	566.33	179.56	1.01
QUIC Cubic	7	58.31	117.34	0.00
SCReAM	10	0.20	116.83	0.00
WebRTC media	10	1.95	117.55	0.01
Sprout	10	2.50	117.74	0.49
TaoVA-100x	10	89.30	117.20	0.00
TCP Vegas	10	25.40	117.81	0.22
Verus	10	184.48	160.47	0.56
Copa	5	61.29	117.53	0.00
Indigo	10	164.82	117.40	0.07
Indigo-calib	10	149.72	116.48	0.13

Run 1: Statistics of TCP BBR

Start at: 2017-11-30 07:11:20

End at: 2017-11-30 07:11:50

Below is generated by plot.py at 2017-11-30 09:35:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 42.38 Mbit/s

95th percentile per-packet one-way delay: 124.330 ms

Loss rate: 0.57%

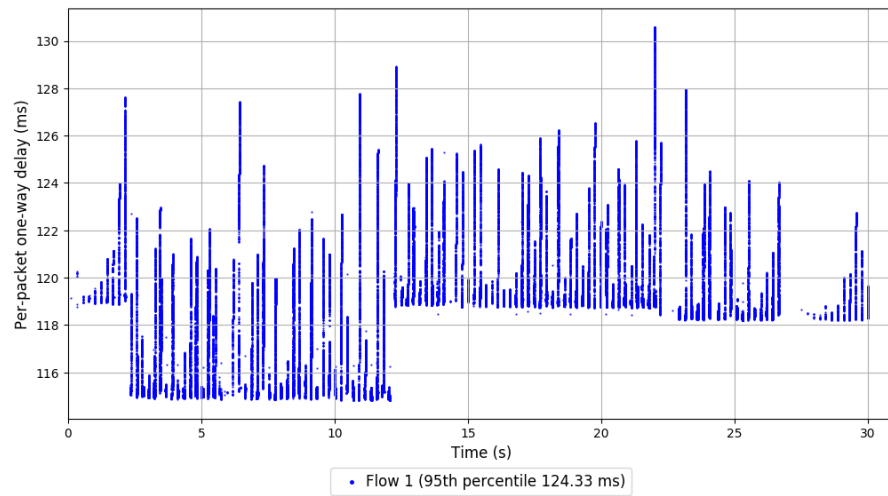
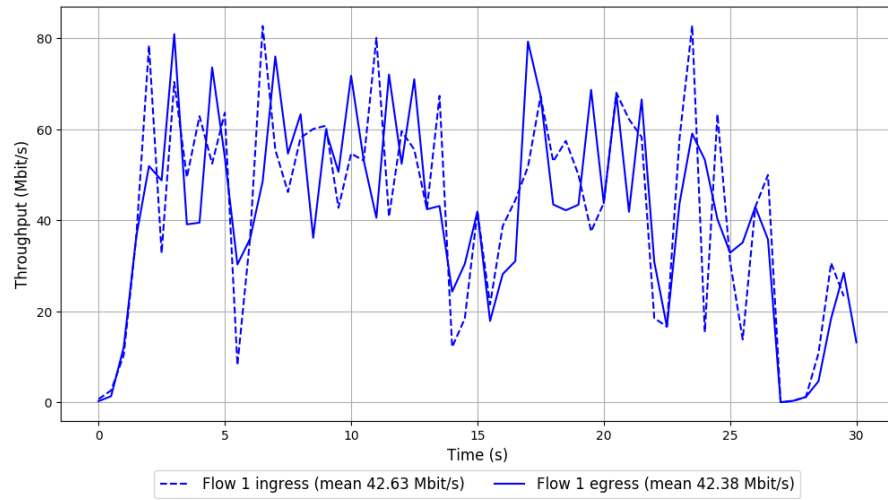
-- Flow 1:

Average throughput: 42.38 Mbit/s

95th percentile per-packet one-way delay: 124.330 ms

Loss rate: 0.57%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2017-11-30 07:22:31

End at: 2017-11-30 07:23:01

Below is generated by plot.py at 2017-11-30 09:35:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 48.66 Mbit/s

95th percentile per-packet one-way delay: 121.967 ms

Loss rate: 0.01%

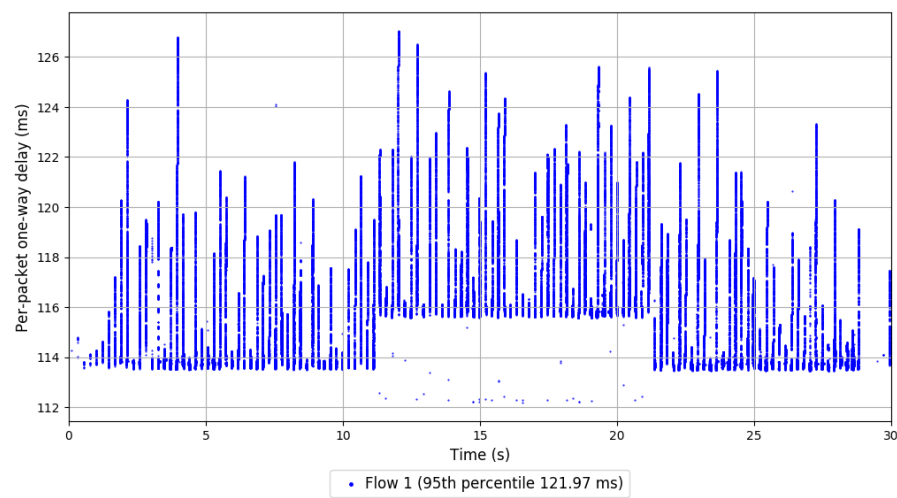
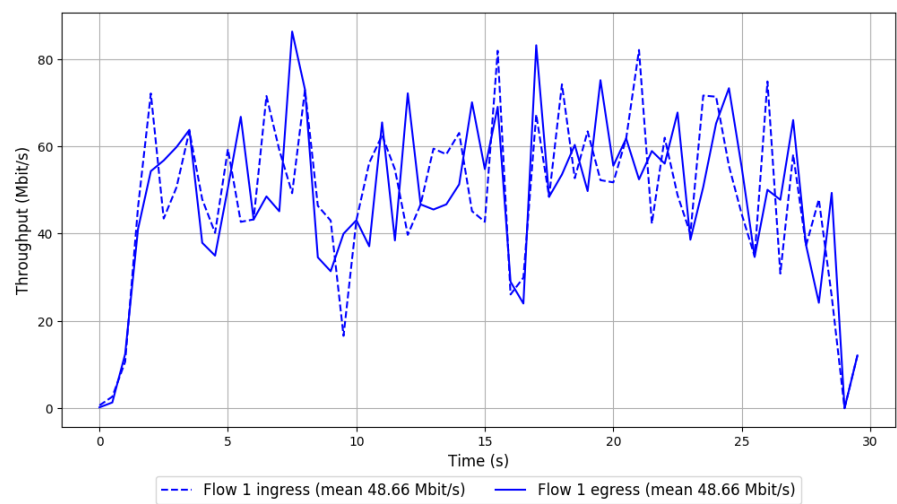
-- Flow 1:

Average throughput: 48.66 Mbit/s

95th percentile per-packet one-way delay: 121.967 ms

Loss rate: 0.01%

Run 2: Report of TCP BBR — Data Link

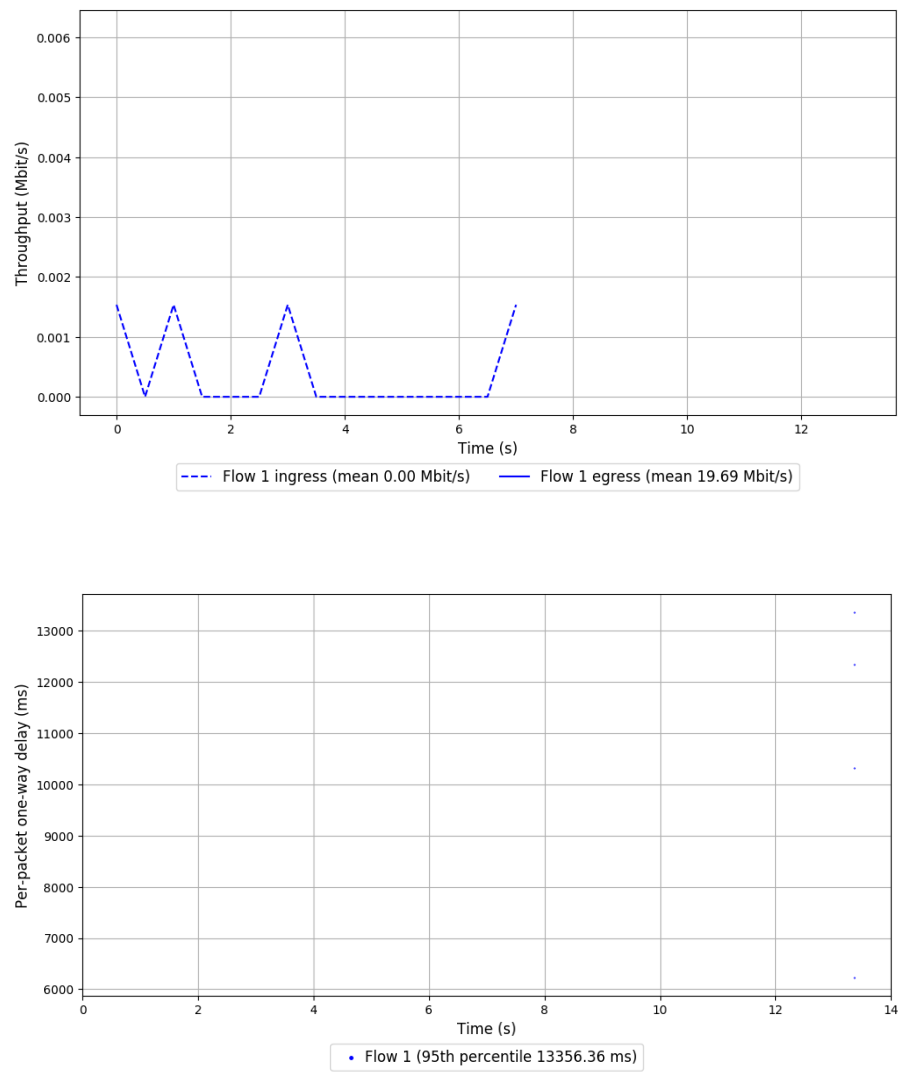


Run 3: Statistics of TCP BBR

Start at: 2017-11-30 07:33:42

End at: 2017-11-30 07:34:12

Run 3: Report of TCP BBR — Data Link

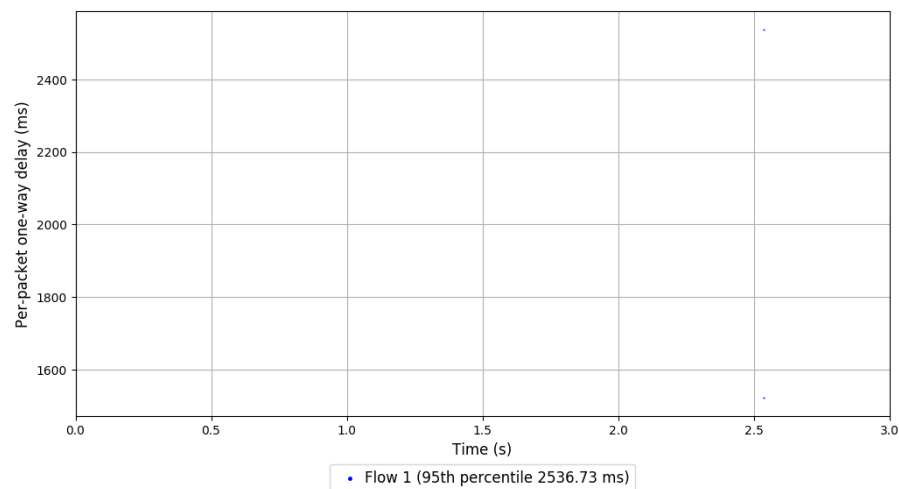
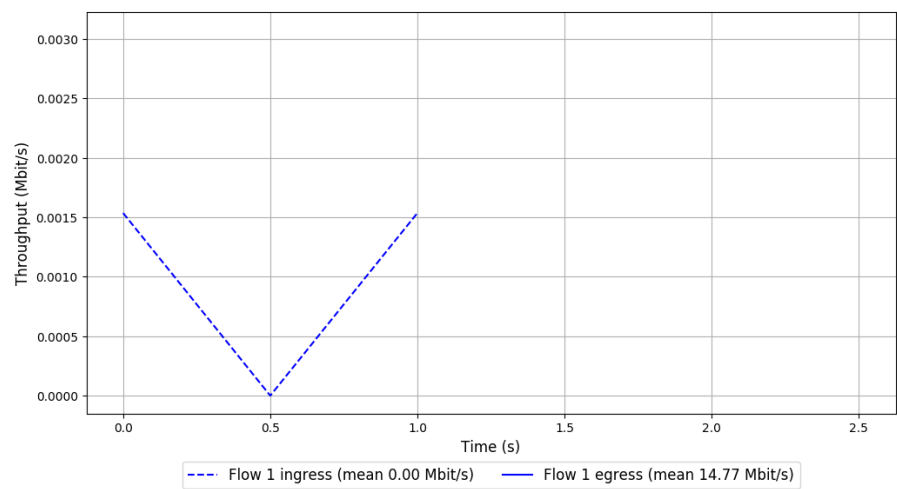


Run 4: Statistics of TCP BBR

Start at: 2017-11-30 07:44:46

End at: 2017-11-30 07:45:16

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2017-11-30 07:55:38

End at: 2017-11-30 07:56:08

Below is generated by plot.py at 2017-11-30 09:35:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 41.85 Mbit/s

95th percentile per-packet one-way delay: 125.655 ms

Loss rate: 0.53%

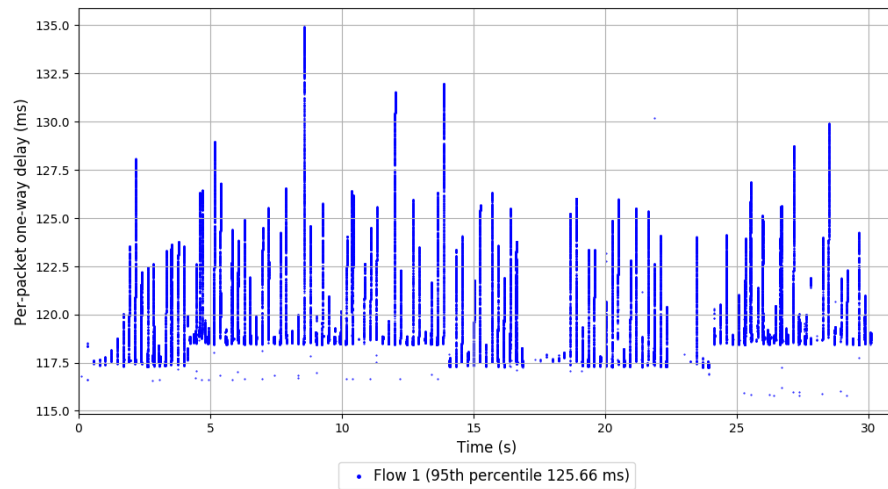
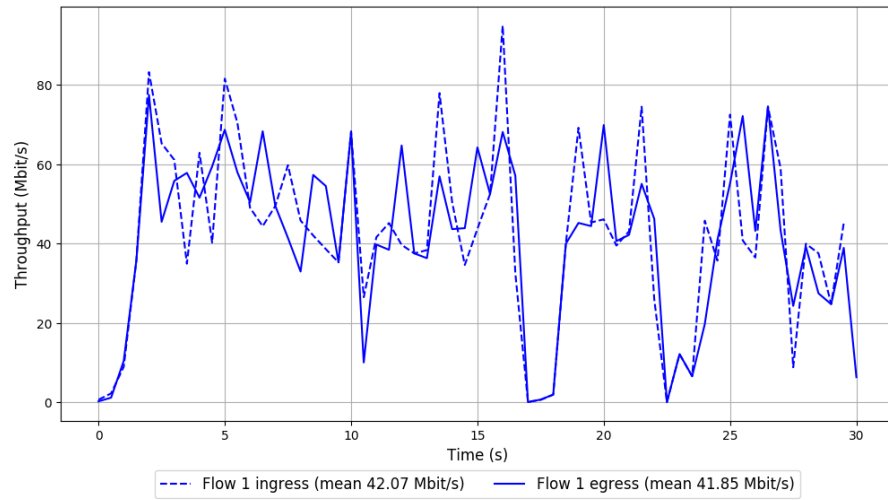
-- Flow 1:

Average throughput: 41.85 Mbit/s

95th percentile per-packet one-way delay: 125.655 ms

Loss rate: 0.53%

Run 5: Report of TCP BBR — Data Link

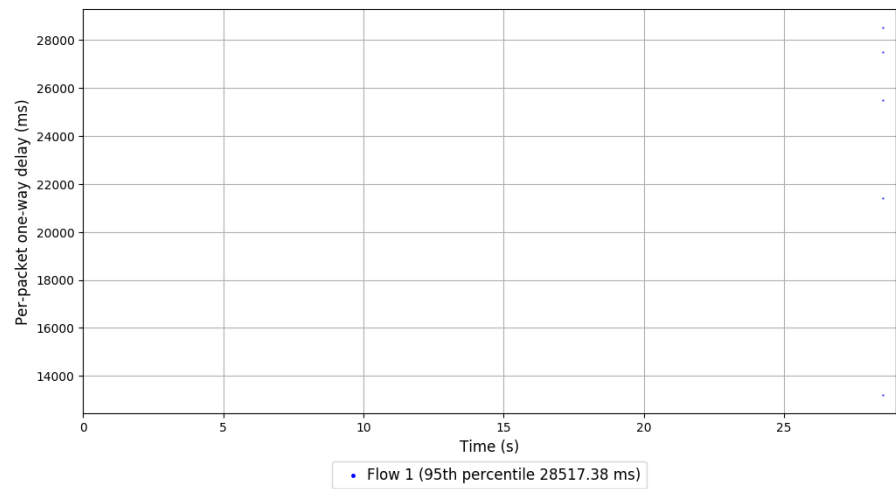
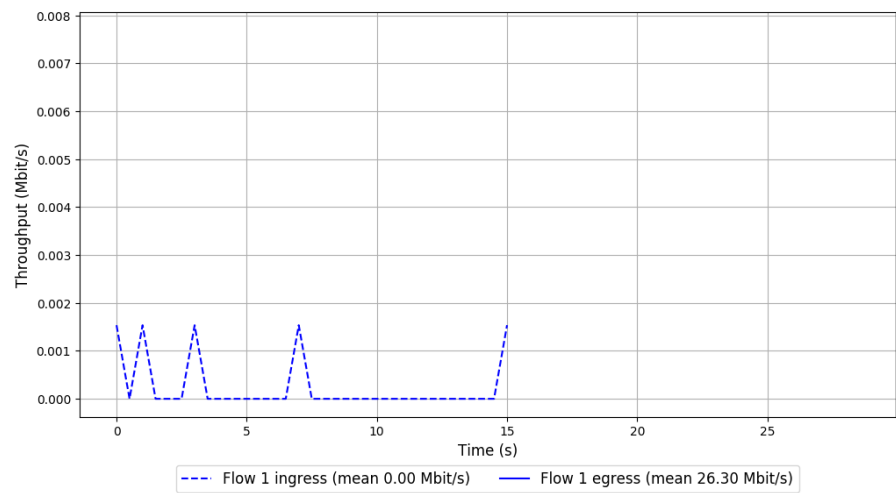


Run 6: Statistics of TCP BBR

Start at: 2017-11-30 08:06:34

End at: 2017-11-30 08:07:04

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2017-11-30 08:17:44

End at: 2017-11-30 08:18:14

Below is generated by plot.py at 2017-11-30 09:35:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 49.20 Mbit/s

95th percentile per-packet one-way delay: 126.101 ms

Loss rate: 0.22%

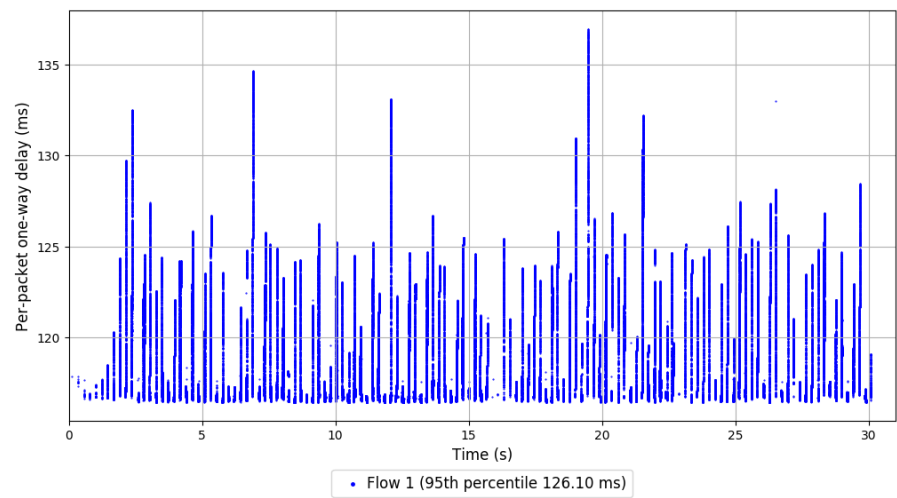
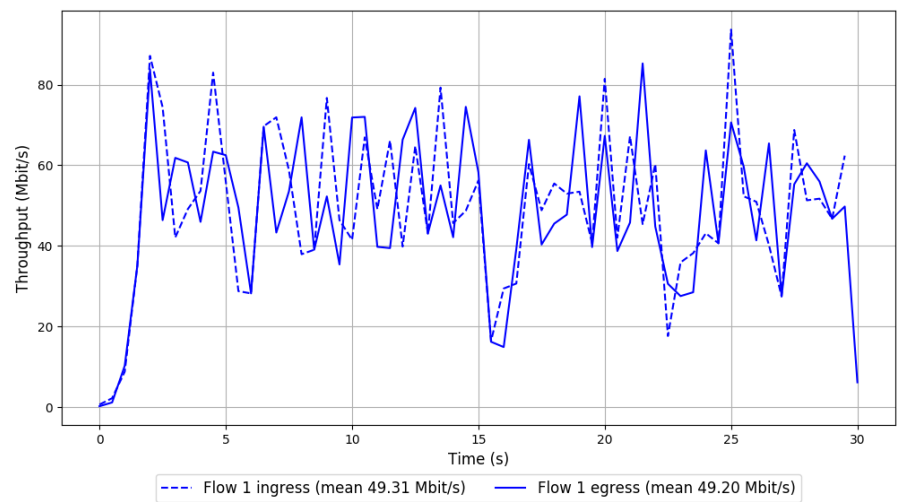
-- Flow 1:

Average throughput: 49.20 Mbit/s

95th percentile per-packet one-way delay: 126.101 ms

Loss rate: 0.22%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2017-11-30 08:29:16

End at: 2017-11-30 08:29:46

Below is generated by plot.py at 2017-11-30 09:35:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 53.19 Mbit/s

95th percentile per-packet one-way delay: 123.472 ms

Loss rate: 0.36%

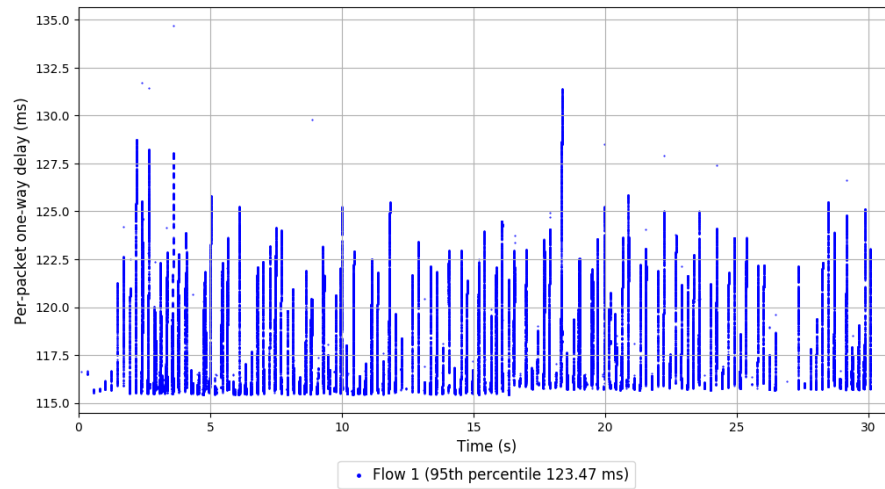
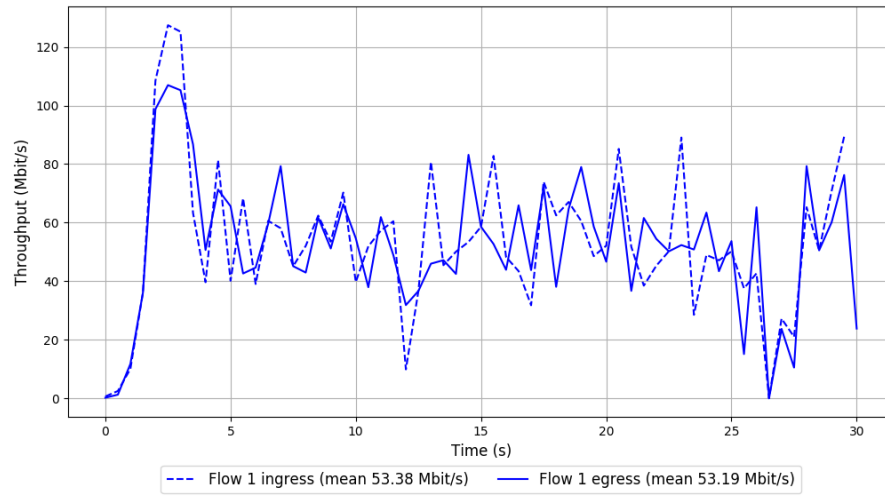
-- Flow 1:

Average throughput: 53.19 Mbit/s

95th percentile per-packet one-way delay: 123.472 ms

Loss rate: 0.36%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2017-11-30 08:40:11

End at: 2017-11-30 08:40:41

Below is generated by plot.py at 2017-11-30 09:35:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 48.21 Mbit/s

95th percentile per-packet one-way delay: 123.424 ms

Loss rate: 0.00%

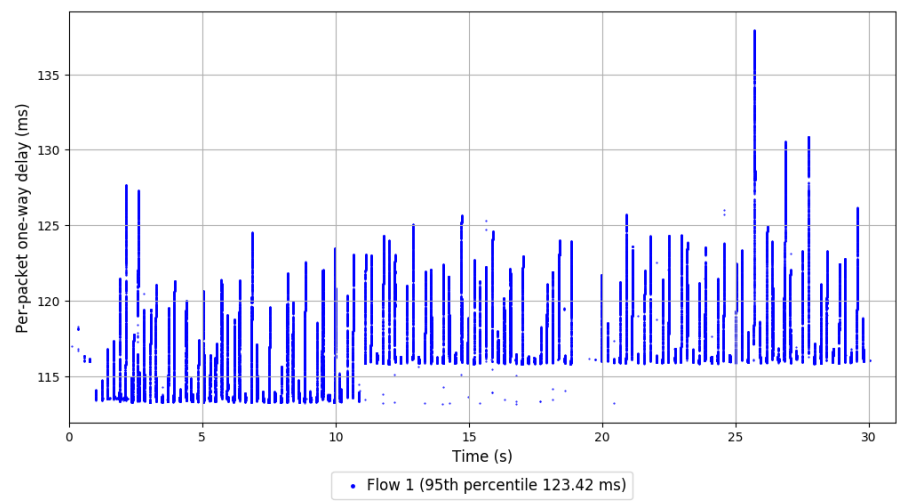
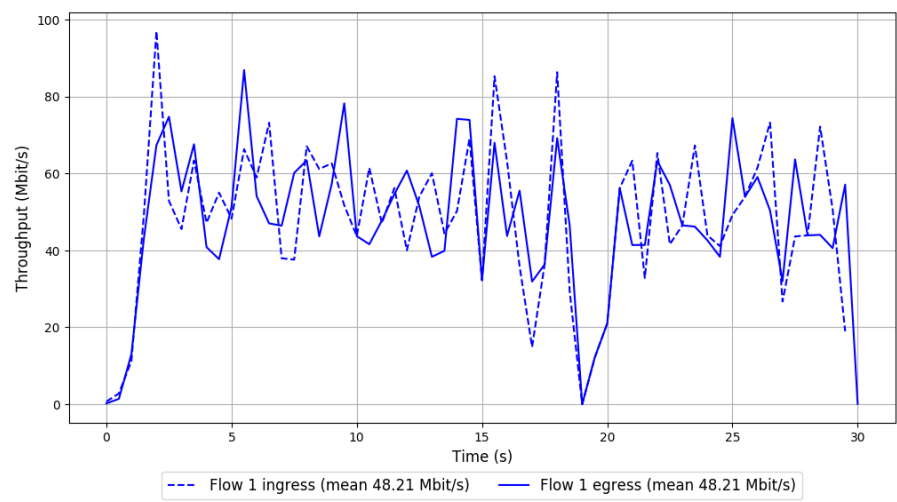
-- Flow 1:

Average throughput: 48.21 Mbit/s

95th percentile per-packet one-way delay: 123.424 ms

Loss rate: 0.00%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2017-11-30 08:51:10

End at: 2017-11-30 08:51:40

Below is generated by plot.py at 2017-11-30 09:35:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 44.34 Mbit/s

95th percentile per-packet one-way delay: 125.873 ms

Loss rate: 1.45%

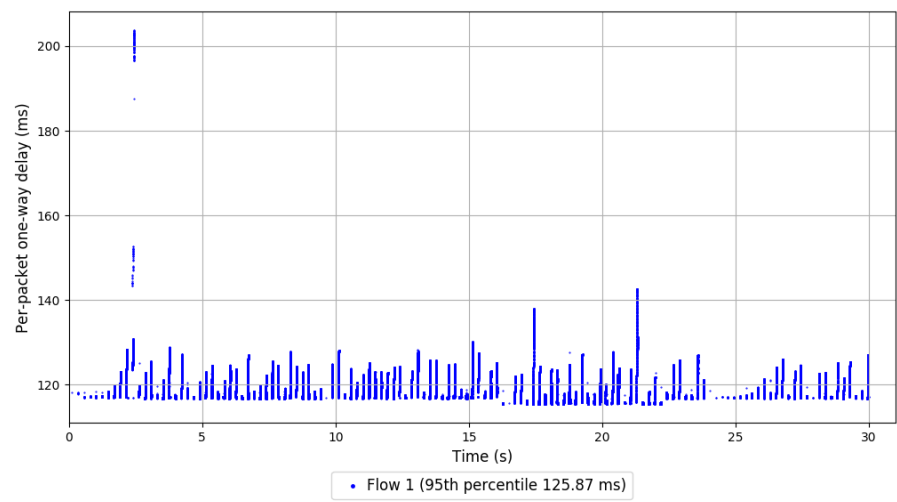
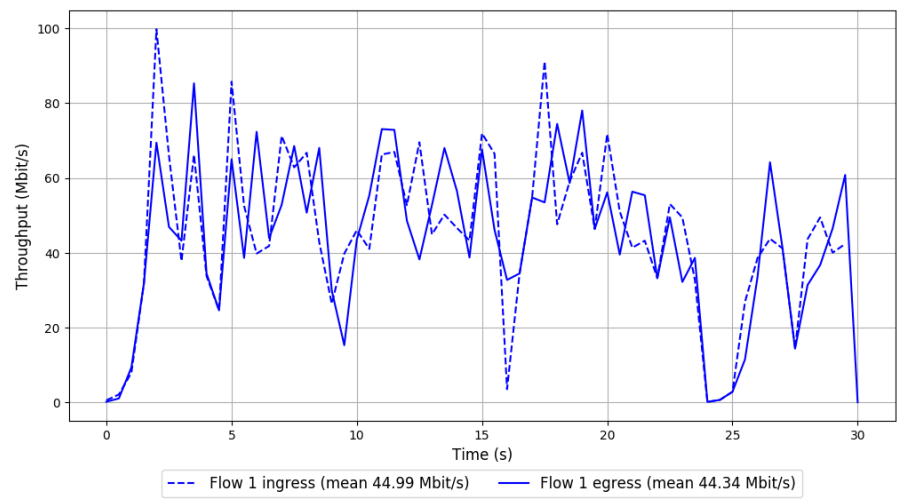
-- Flow 1:

Average throughput: 44.34 Mbit/s

95th percentile per-packet one-way delay: 125.873 ms

Loss rate: 1.45%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2017-11-30 07:06:25

End at: 2017-11-30 07:06:55

Below is generated by plot.py at 2017-11-30 09:35:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 62.89 Mbit/s

95th percentile per-packet one-way delay: 121.930 ms

Loss rate: 0.00%

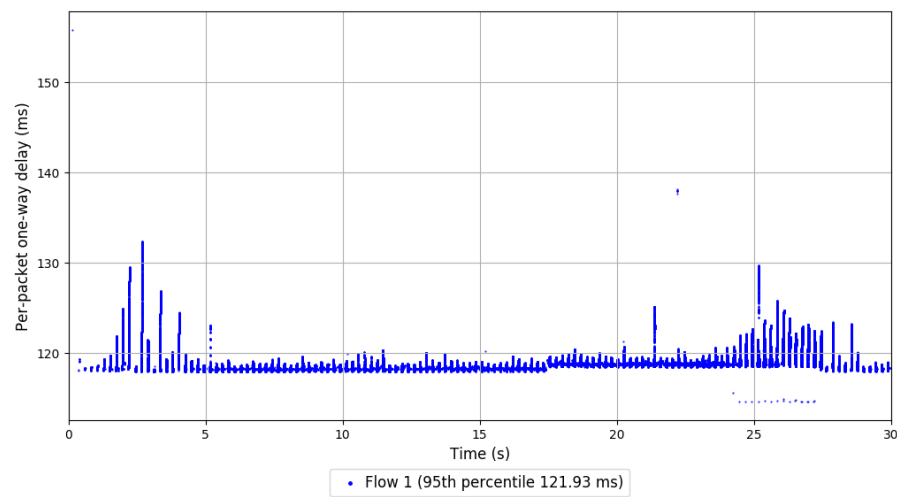
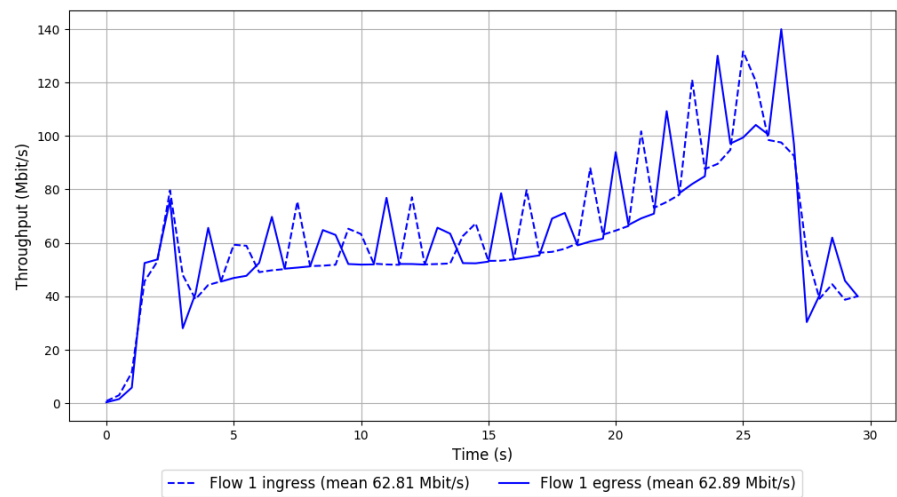
-- Flow 1:

Average throughput: 62.89 Mbit/s

95th percentile per-packet one-way delay: 121.930 ms

Loss rate: 0.00%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2017-11-30 07:17:17

End at: 2017-11-30 07:17:47

Below is generated by plot.py at 2017-11-30 09:36:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.78 Mbit/s

95th percentile per-packet one-way delay: 118.082 ms

Loss rate: 0.48%

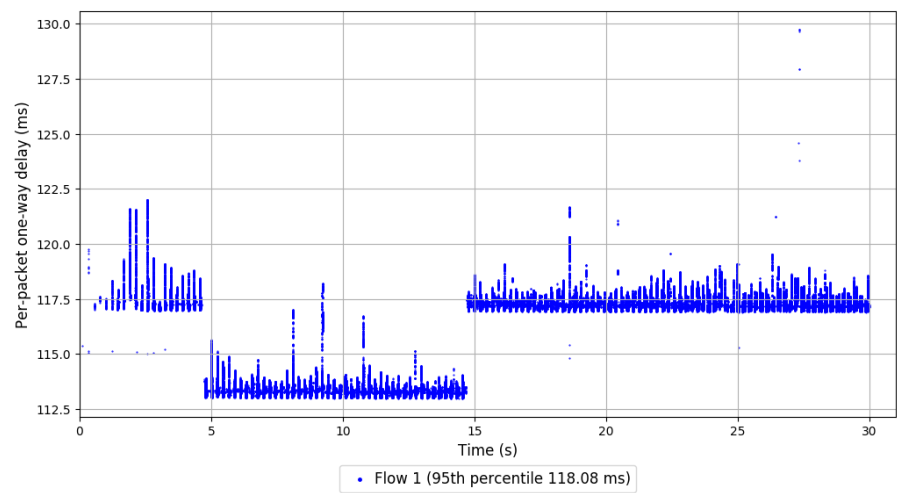
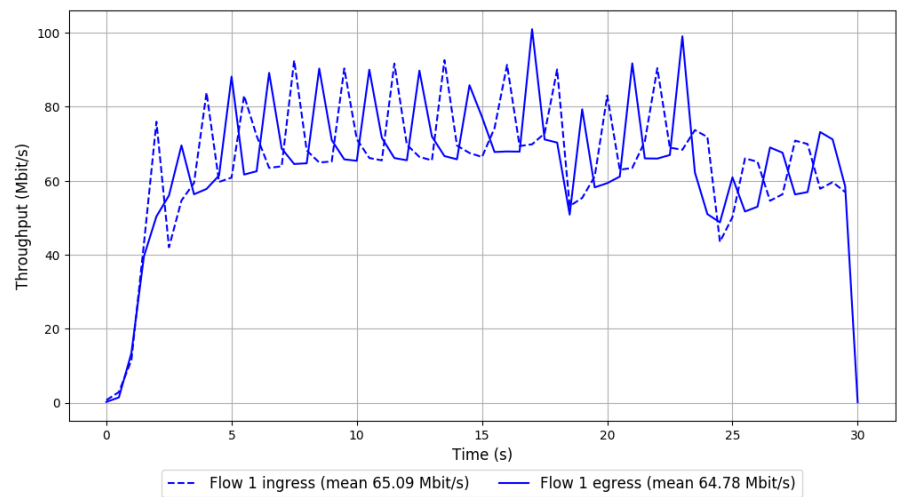
-- Flow 1:

Average throughput: 64.78 Mbit/s

95th percentile per-packet one-way delay: 118.082 ms

Loss rate: 0.48%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2017-11-30 07:28:32

End at: 2017-11-30 07:29:02

Below is generated by plot.py at 2017-11-30 09:36:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 48.49 Mbit/s

95th percentile per-packet one-way delay: 118.216 ms

Loss rate: 0.00%

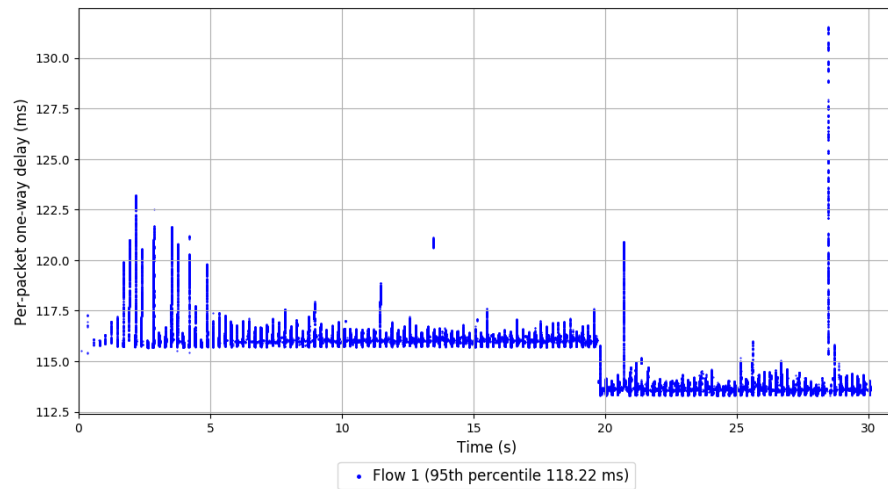
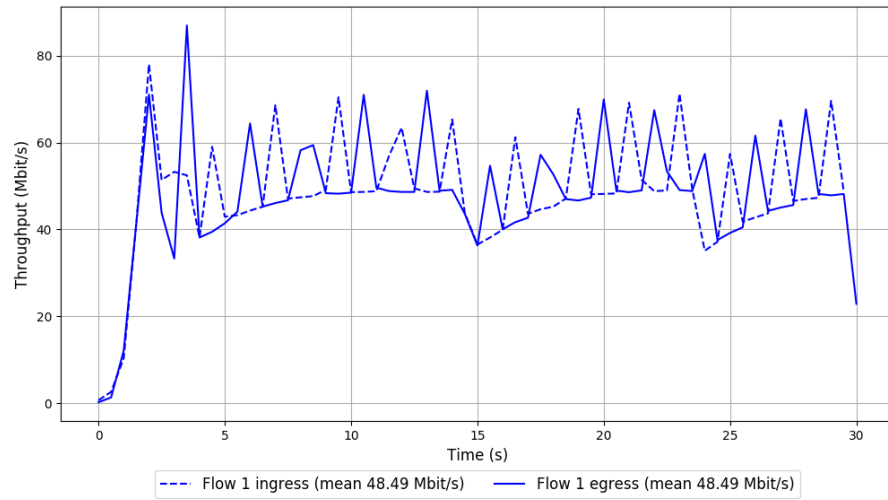
-- Flow 1:

Average throughput: 48.49 Mbit/s

95th percentile per-packet one-way delay: 118.216 ms

Loss rate: 0.00%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2017-11-30 07:39:45

End at: 2017-11-30 07:40:15

Below is generated by plot.py at 2017-11-30 09:36:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 33.04 Mbit/s

95th percentile per-packet one-way delay: 116.575 ms

Loss rate: 0.00%

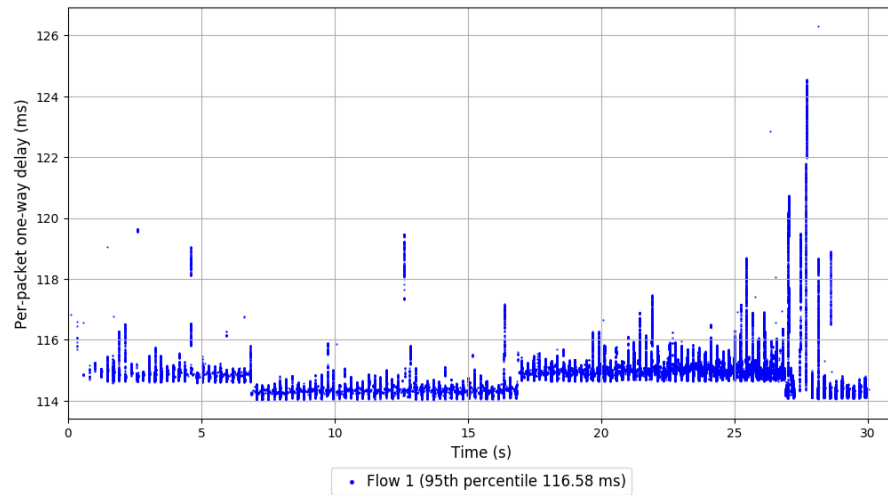
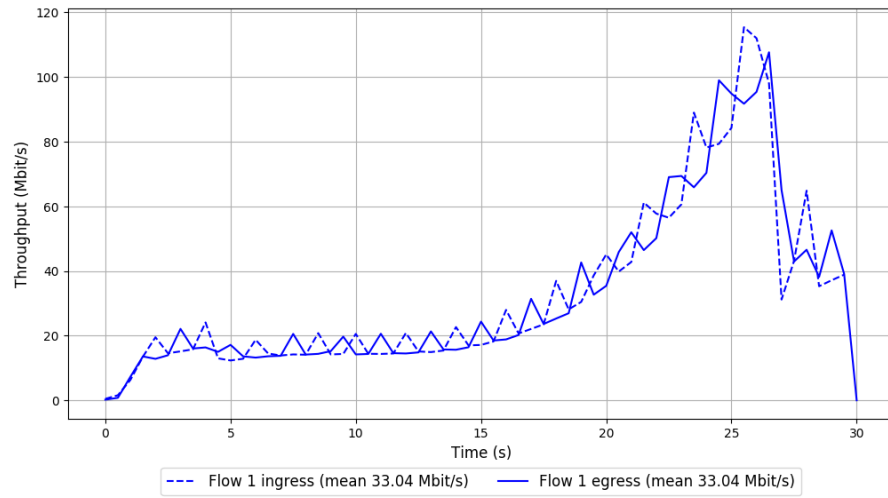
-- Flow 1:

Average throughput: 33.04 Mbit/s

95th percentile per-packet one-way delay: 116.575 ms

Loss rate: 0.00%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2017-11-30 07:50:39

End at: 2017-11-30 07:51:09

Below is generated by plot.py at 2017-11-30 09:36:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 47.42 Mbit/s

95th percentile per-packet one-way delay: 120.410 ms

Loss rate: 0.23%

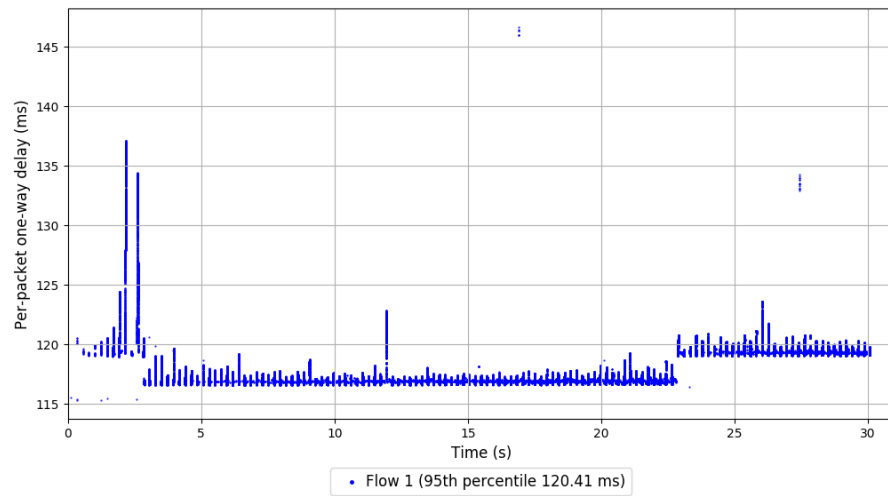
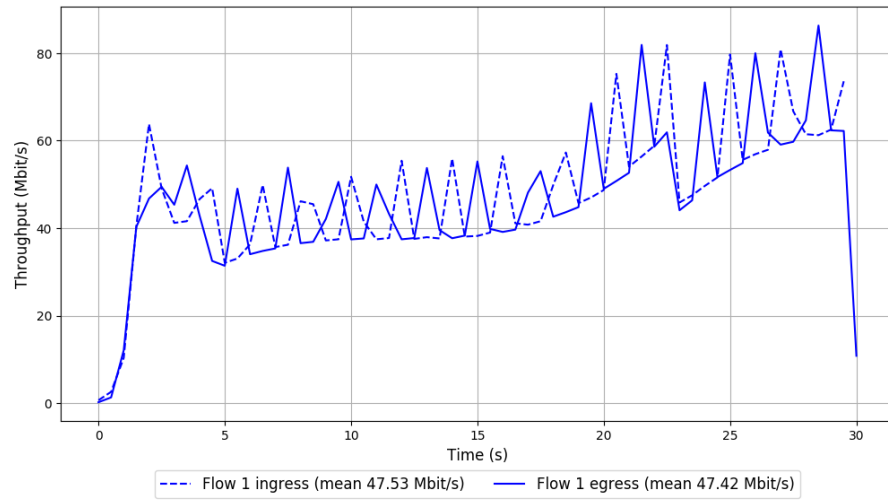
-- Flow 1:

Average throughput: 47.42 Mbit/s

95th percentile per-packet one-way delay: 120.410 ms

Loss rate: 0.23%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2017-11-30 08:01:39

End at: 2017-11-30 08:02:09

Below is generated by plot.py at 2017-11-30 09:36:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 38.98 Mbit/s

95th percentile per-packet one-way delay: 119.385 ms

Loss rate: 0.03%

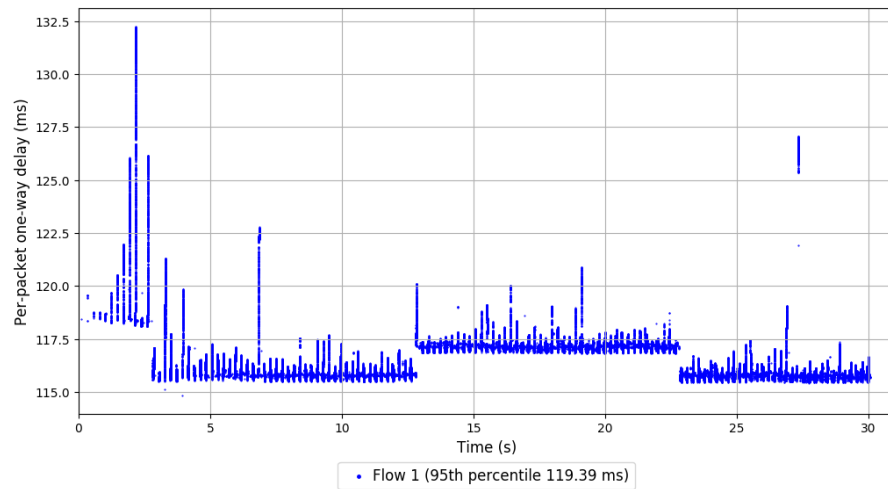
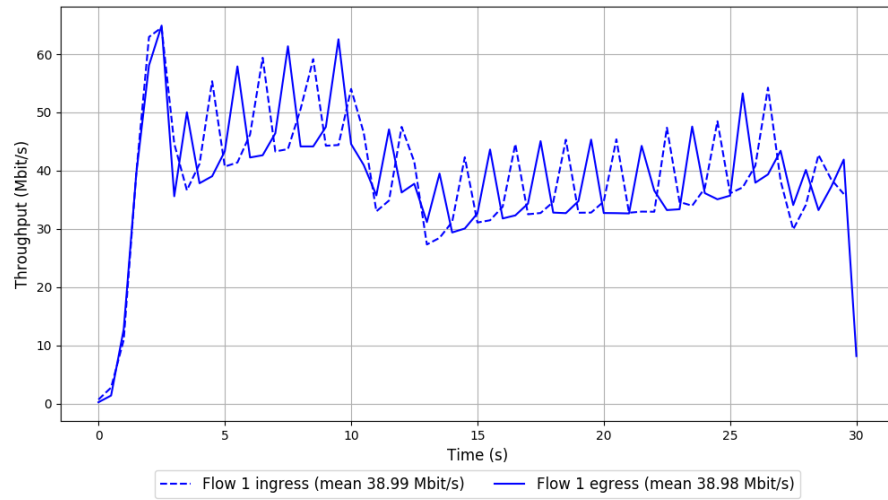
-- Flow 1:

Average throughput: 38.98 Mbit/s

95th percentile per-packet one-way delay: 119.385 ms

Loss rate: 0.03%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2017-11-30 08:12:27

End at: 2017-11-30 08:12:57

Below is generated by plot.py at 2017-11-30 09:36:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 59.33 Mbit/s

95th percentile per-packet one-way delay: 120.509 ms

Loss rate: 0.00%

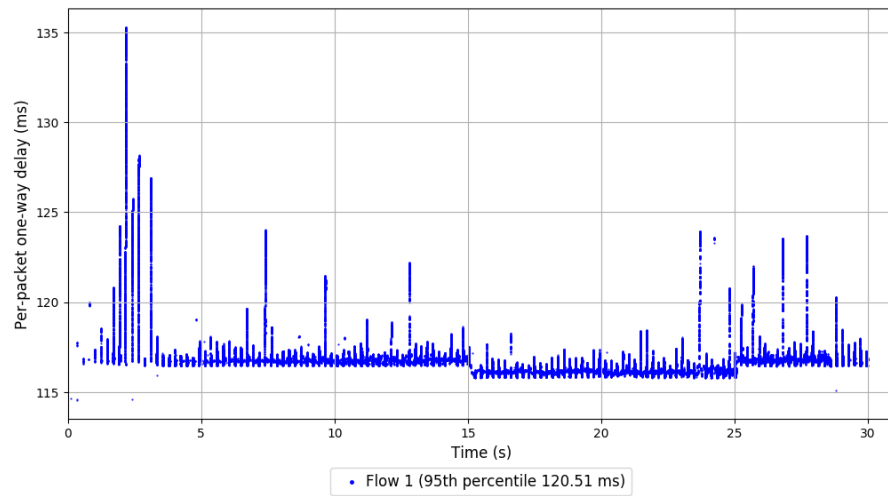
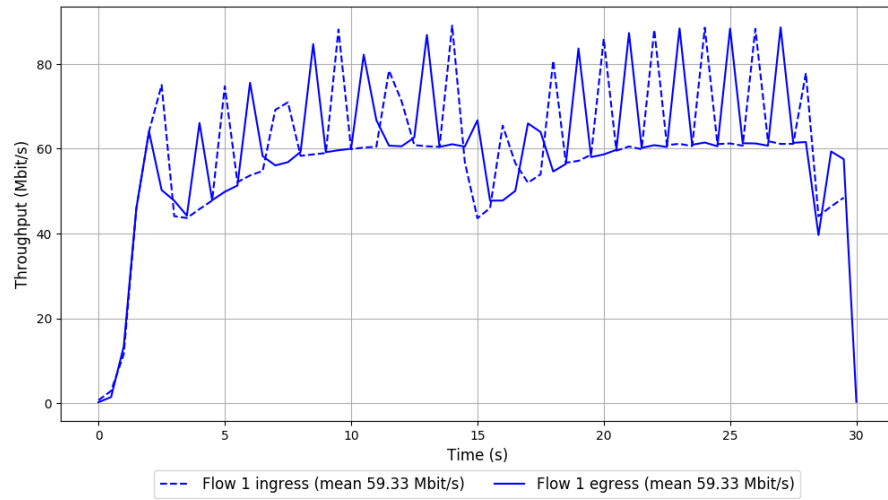
-- Flow 1:

Average throughput: 59.33 Mbit/s

95th percentile per-packet one-way delay: 120.509 ms

Loss rate: 0.00%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2017-11-30 08:23:49

End at: 2017-11-30 08:24:19

Below is generated by plot.py at 2017-11-30 09:36:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 32.02 Mbit/s

95th percentile per-packet one-way delay: 118.267 ms

Loss rate: 0.03%

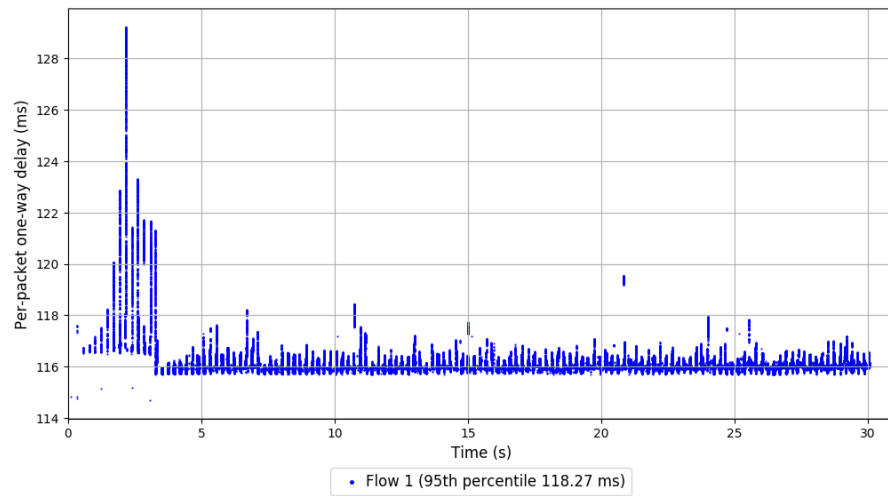
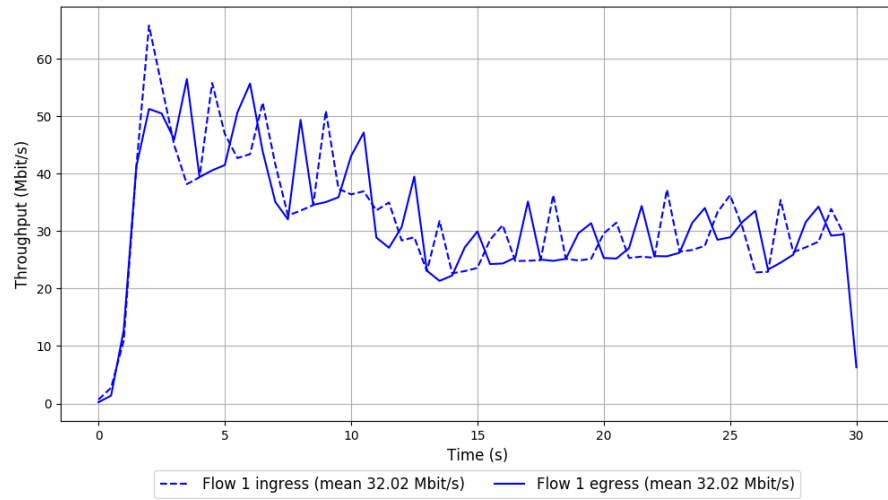
-- Flow 1:

Average throughput: 32.02 Mbit/s

95th percentile per-packet one-way delay: 118.267 ms

Loss rate: 0.03%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2017-11-30 08:35:14

End at: 2017-11-30 08:35:44

Below is generated by plot.py at 2017-11-30 09:37:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.60 Mbit/s

95th percentile per-packet one-way delay: 121.477 ms

Loss rate: 0.00%

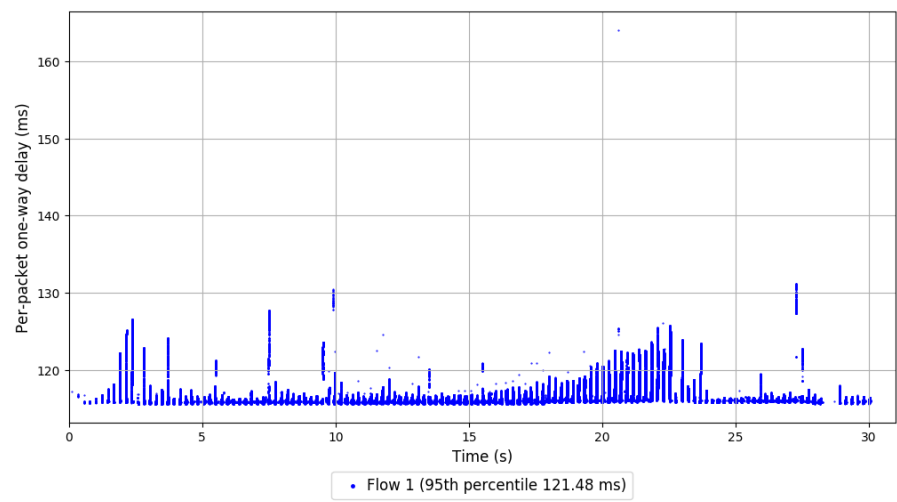
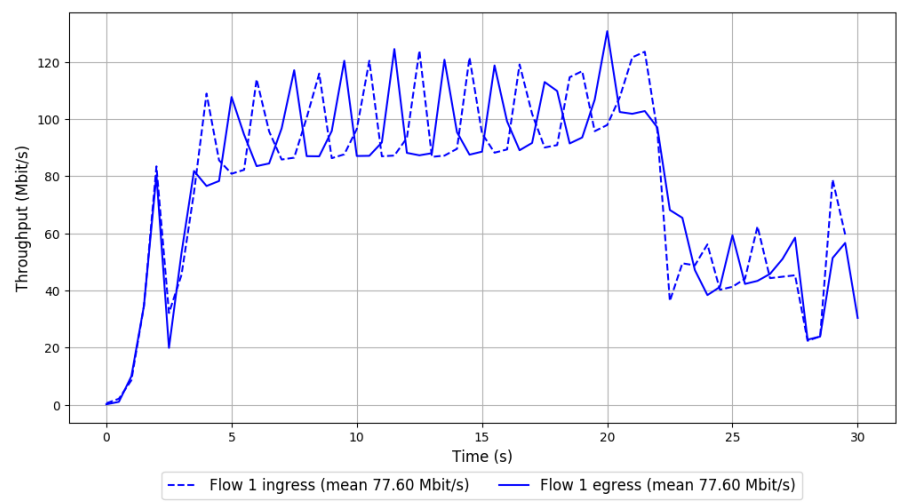
-- Flow 1:

Average throughput: 77.60 Mbit/s

95th percentile per-packet one-way delay: 121.477 ms

Loss rate: 0.00%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2017-11-30 08:46:12

End at: 2017-11-30 08:46:42

Below is generated by plot.py at 2017-11-30 09:37:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 62.62 Mbit/s

95th percentile per-packet one-way delay: 117.623 ms

Loss rate: 0.12%

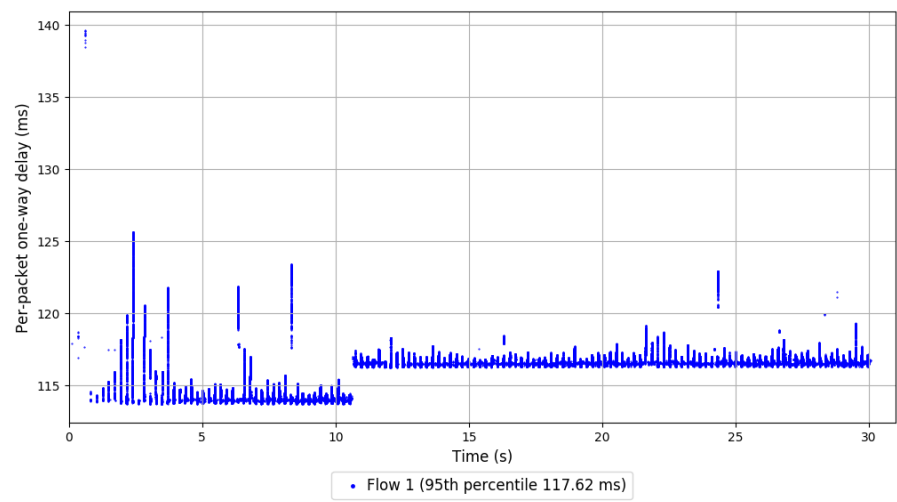
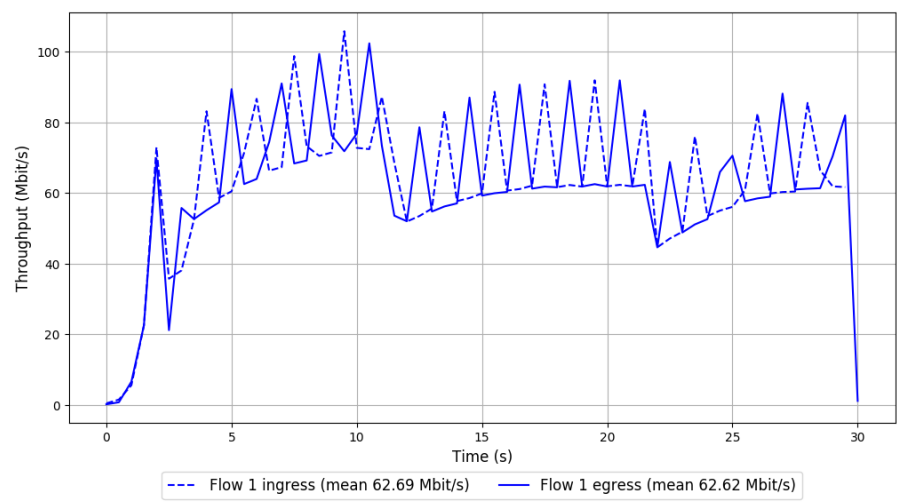
-- Flow 1:

Average throughput: 62.62 Mbit/s

95th percentile per-packet one-way delay: 117.623 ms

Loss rate: 0.12%

Run 10: Report of TCP Cubic — Data Link

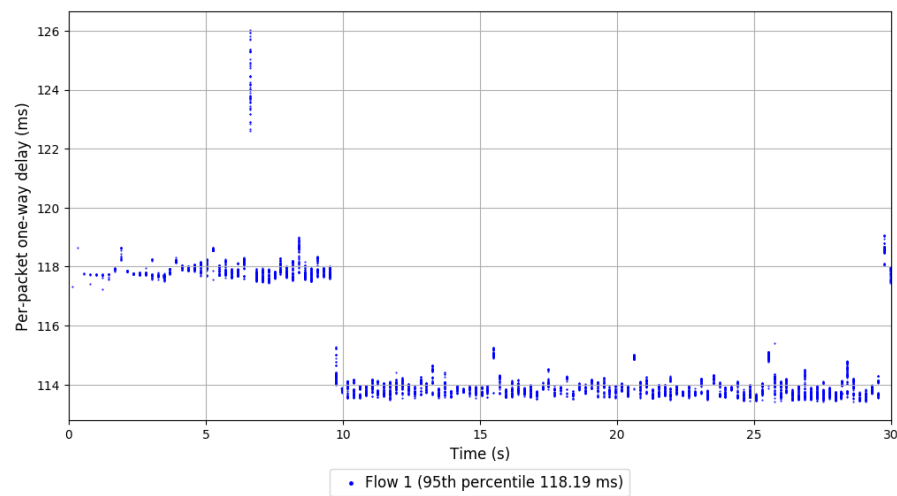
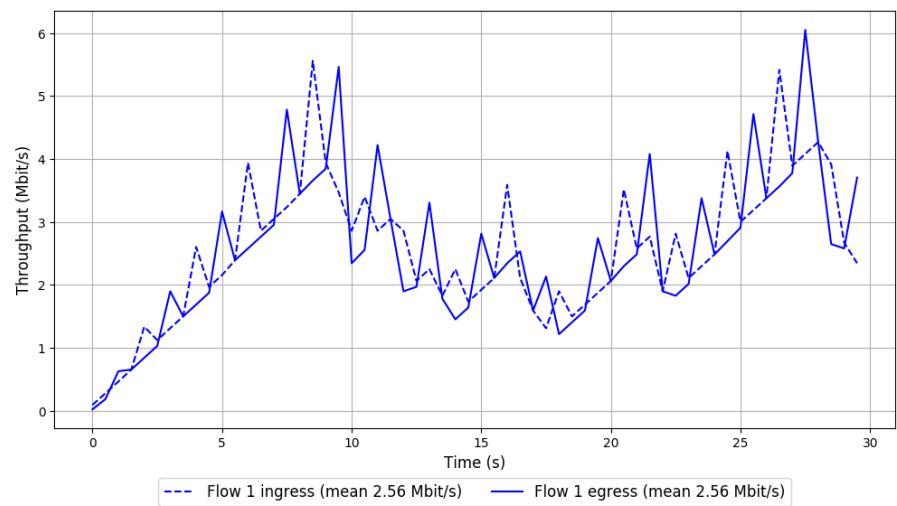


```
Run 1: Statistics of LEDBAT

Start at: 2017-11-30 07:15:12
End at: 2017-11-30 07:15:42

# Below is generated by plot.py at 2017-11-30 09:37:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.56 Mbit/s
95th percentile per-packet one-way delay: 118.189 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 2.56 Mbit/s
95th percentile per-packet one-way delay: 118.189 ms
Loss rate: 0.03%
```


Run 1: Report of LEDBAT — Data Link

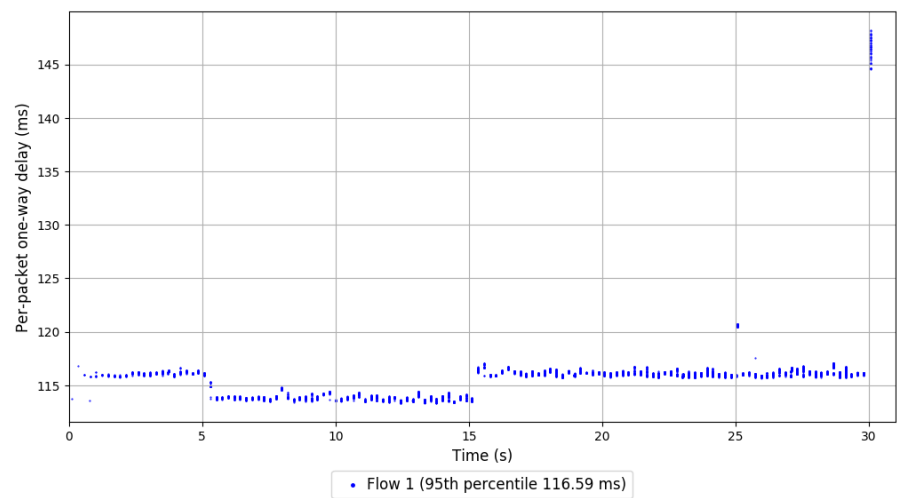
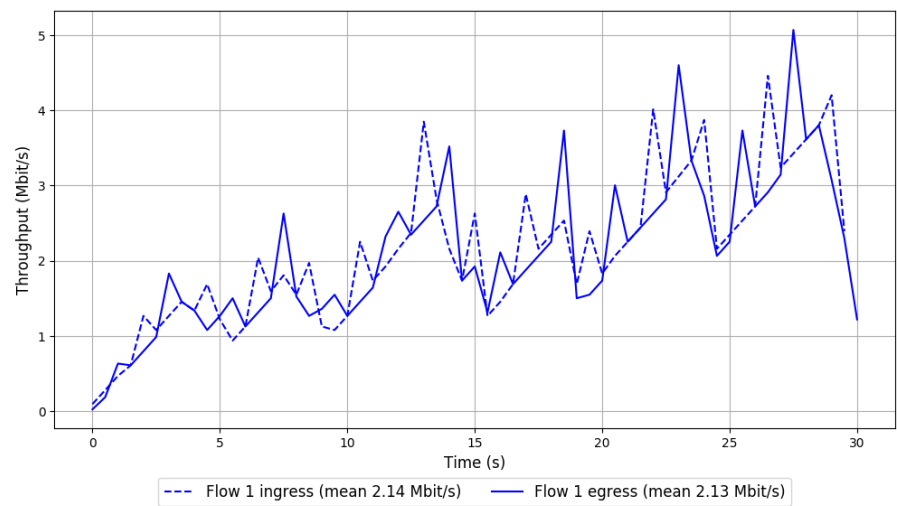


```
Run 2: Statistics of LEDBAT

Start at: 2017-11-30 07:26:27
End at: 2017-11-30 07:26:57

# Below is generated by plot.py at 2017-11-30 09:37:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.13 Mbit/s
95th percentile per-packet one-way delay: 116.595 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 2.13 Mbit/s
95th percentile per-packet one-way delay: 116.595 ms
Loss rate: 0.22%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2017-11-30 07:37:40

End at: 2017-11-30 07:38:10

Below is generated by plot.py at 2017-11-30 09:37:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 117.774 ms

Loss rate: 0.00%

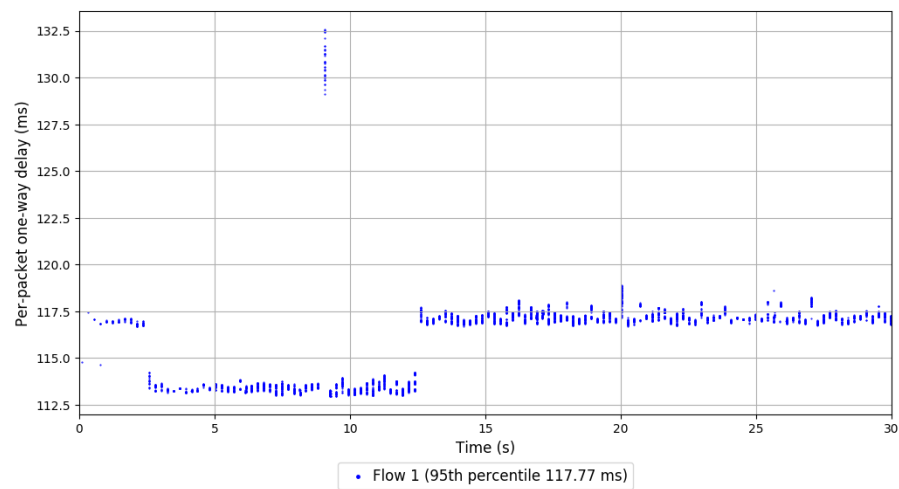
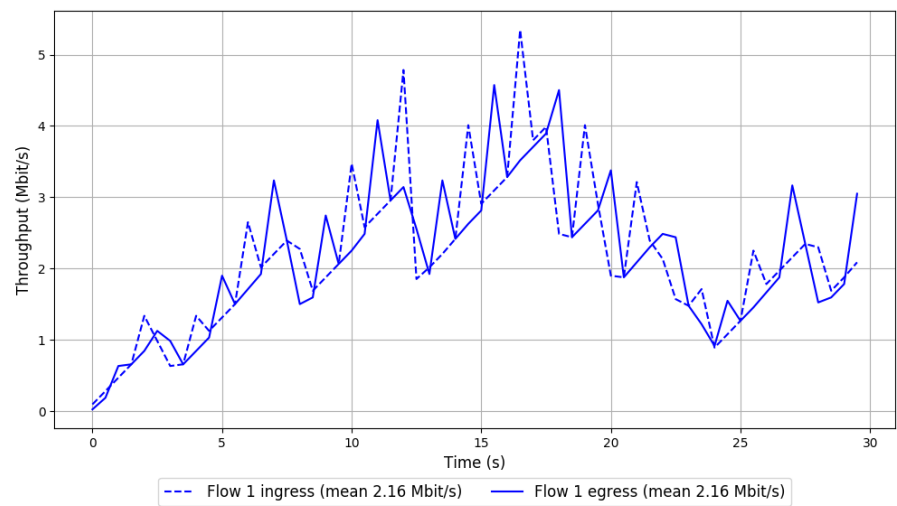
-- Flow 1:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 117.774 ms

Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2017-11-30 07:48:34

End at: 2017-11-30 07:49:04

Below is generated by plot.py at 2017-11-30 09:37:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.07 Mbit/s

95th percentile per-packet one-way delay: 119.527 ms

Loss rate: 0.09%

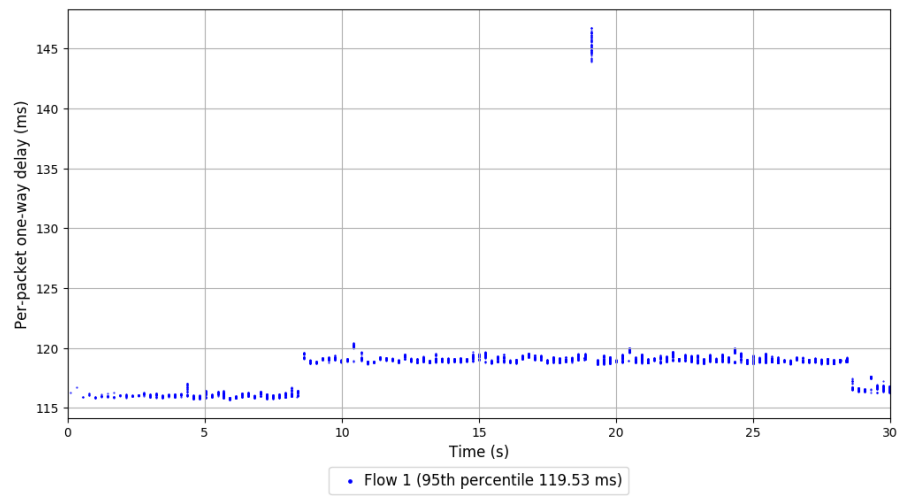
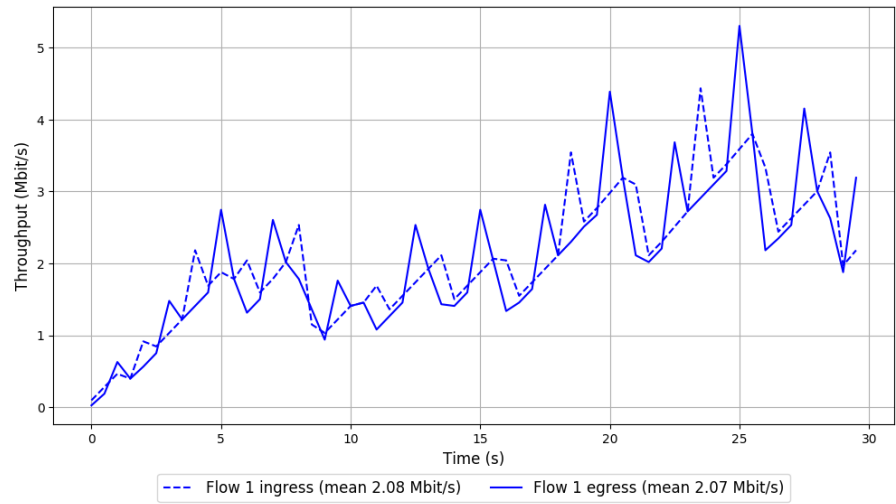
-- Flow 1:

Average throughput: 2.07 Mbit/s

95th percentile per-packet one-way delay: 119.527 ms

Loss rate: 0.09%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2017-11-30 07:59:33

End at: 2017-11-30 08:00:03

Below is generated by plot.py at 2017-11-30 09:37:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.97 Mbit/s

95th percentile per-packet one-way delay: 117.874 ms

Loss rate: 0.18%

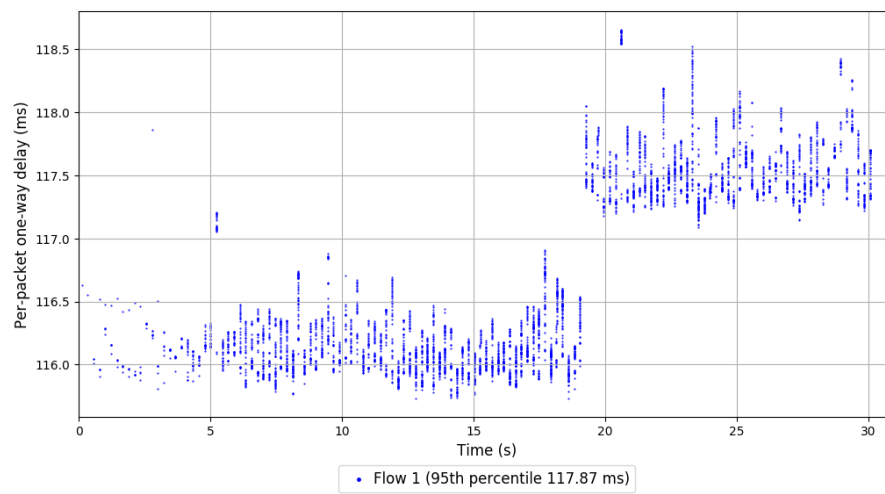
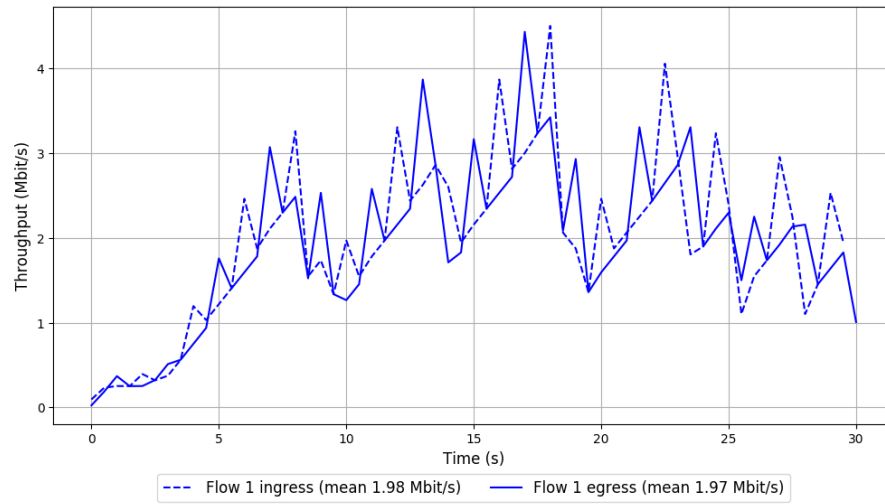
-- Flow 1:

Average throughput: 1.97 Mbit/s

95th percentile per-packet one-way delay: 117.874 ms

Loss rate: 0.18%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2017-11-30 08:10:22

End at: 2017-11-30 08:10:52

Below is generated by plot.py at 2017-11-30 09:37:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.69 Mbit/s

95th percentile per-packet one-way delay: 117.762 ms

Loss rate: 0.02%

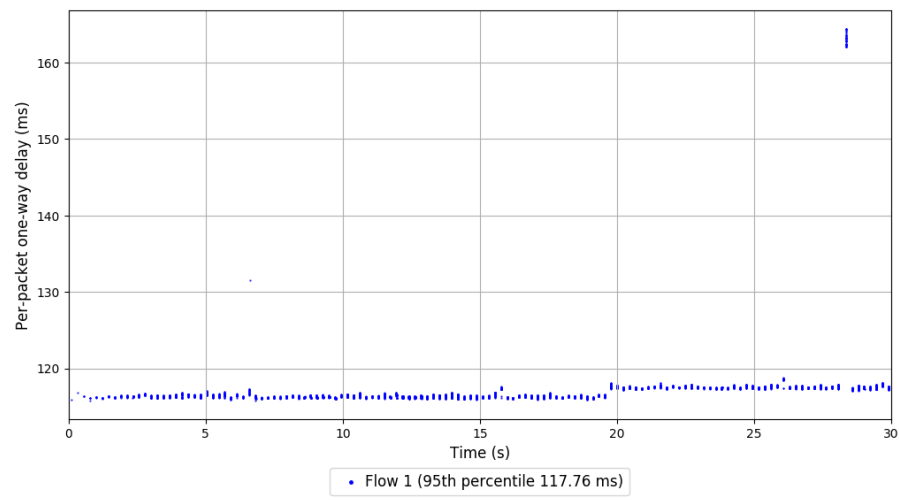
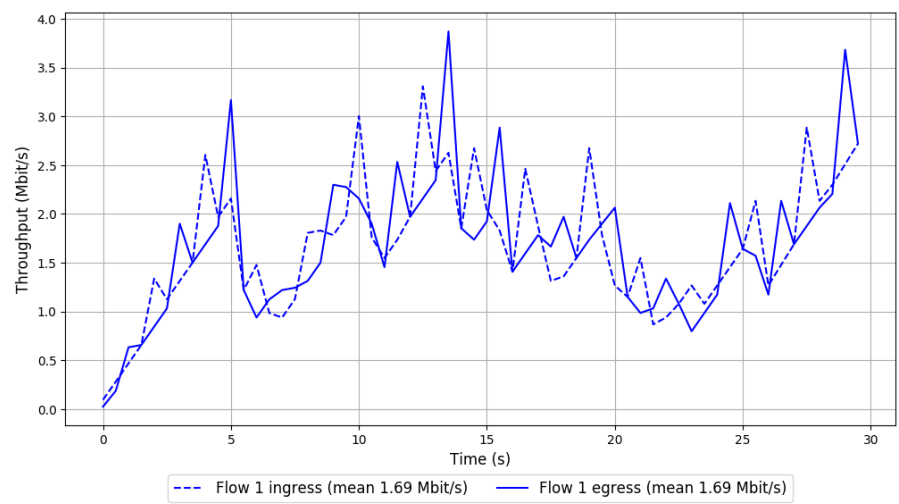
-- Flow 1:

Average throughput: 1.69 Mbit/s

95th percentile per-packet one-way delay: 117.762 ms

Loss rate: 0.02%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2017-11-30 08:21:44

End at: 2017-11-30 08:22:14

Below is generated by plot.py at 2017-11-30 09:37:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.78 Mbit/s

95th percentile per-packet one-way delay: 117.377 ms

Loss rate: 0.16%

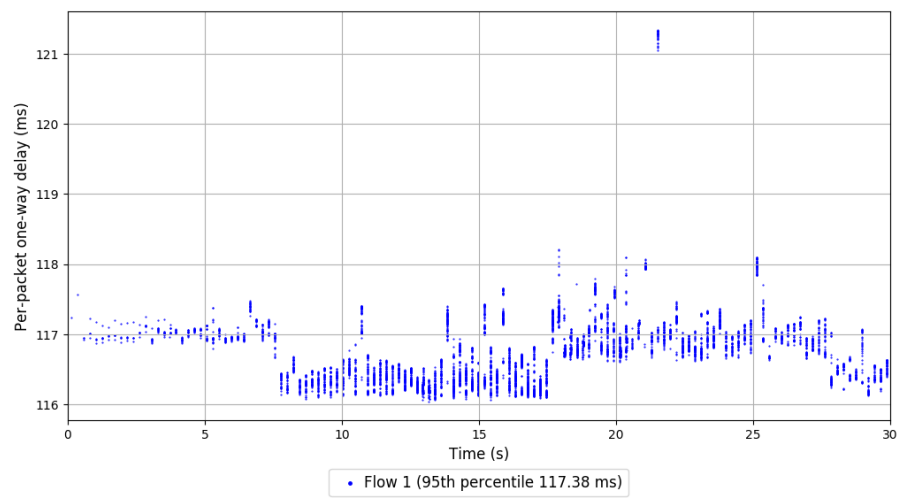
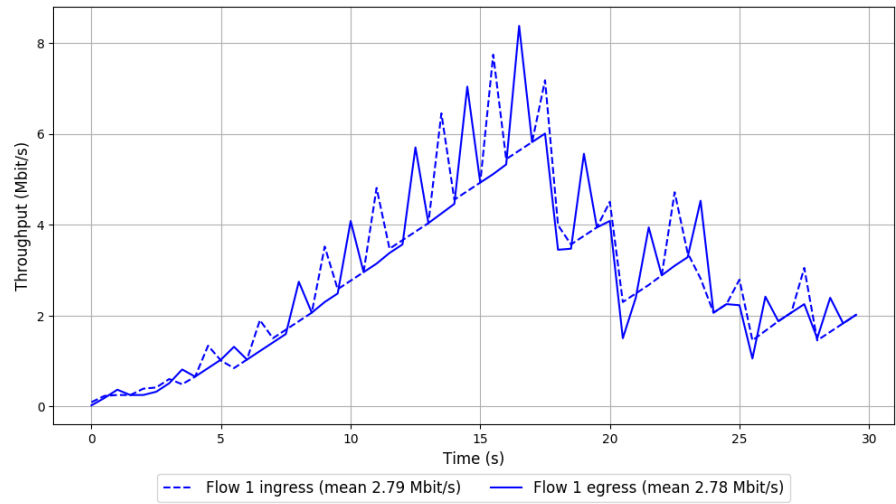
-- Flow 1:

Average throughput: 2.78 Mbit/s

95th percentile per-packet one-way delay: 117.377 ms

Loss rate: 0.16%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2017-11-30 08:33:10

End at: 2017-11-30 08:33:40

Below is generated by plot.py at 2017-11-30 09:37:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.08 Mbit/s

95th percentile per-packet one-way delay: 116.519 ms

Loss rate: 0.13%

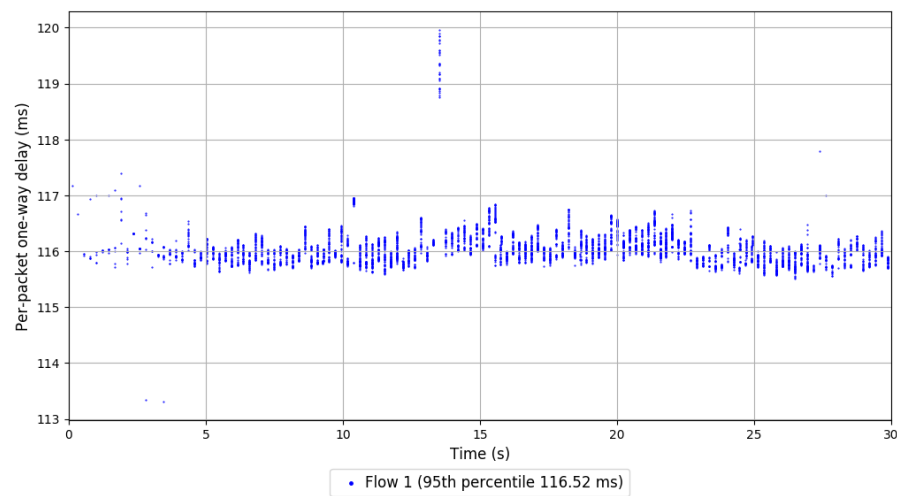
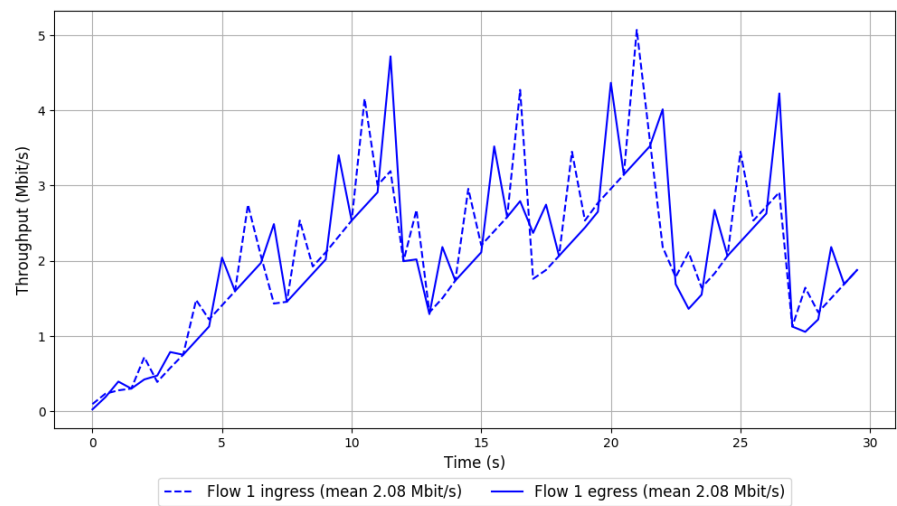
-- Flow 1:

Average throughput: 2.08 Mbit/s

95th percentile per-packet one-way delay: 116.519 ms

Loss rate: 0.13%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2017-11-30 08:44:06

End at: 2017-11-30 08:44:36

Below is generated by plot.py at 2017-11-30 09:37:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 116.430 ms

Loss rate: 1.62%

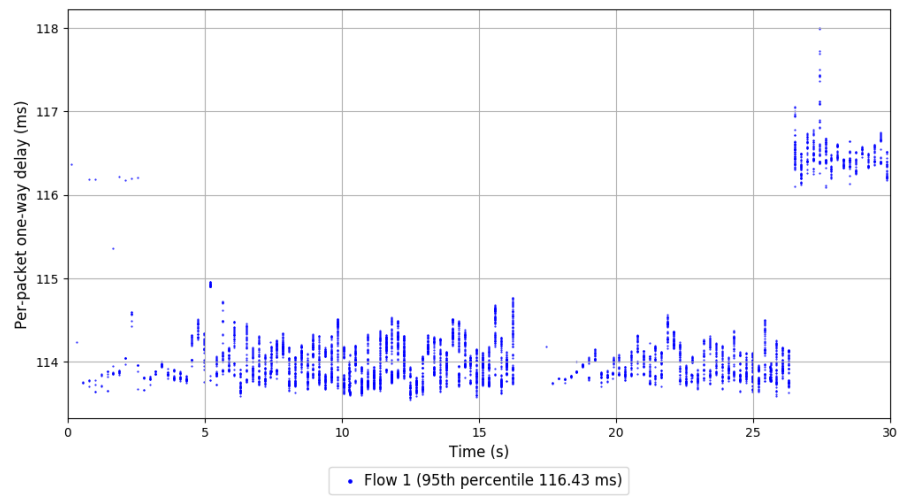
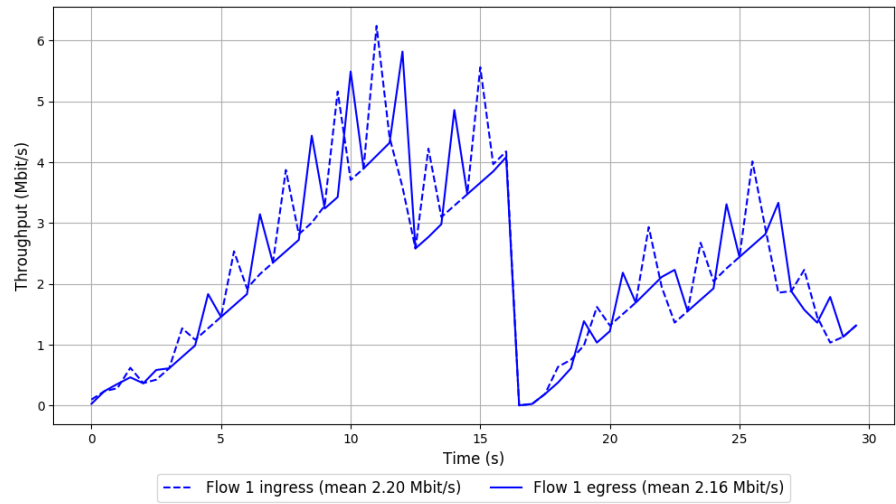
-- Flow 1:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 116.430 ms

Loss rate: 1.62%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2017-11-30 08:55:01

End at: 2017-11-30 08:55:31

Below is generated by plot.py at 2017-11-30 09:37:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.42 Mbit/s

95th percentile per-packet one-way delay: 115.836 ms

Loss rate: 0.28%

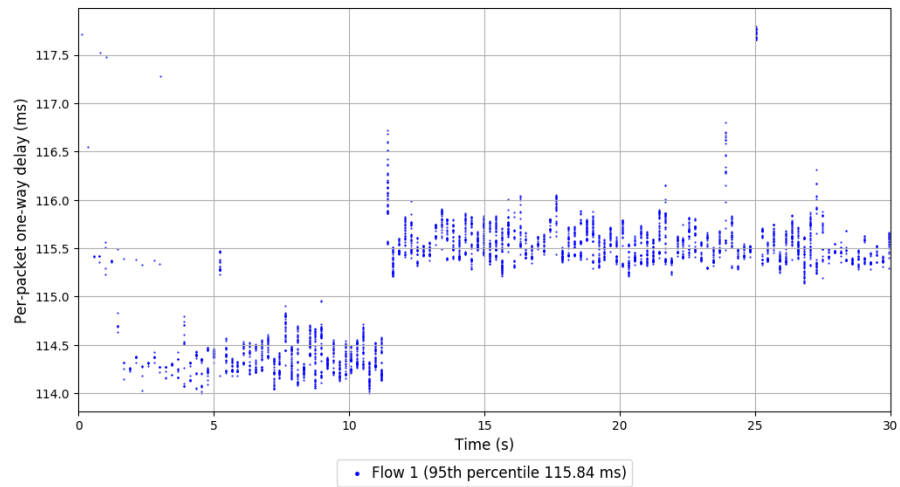
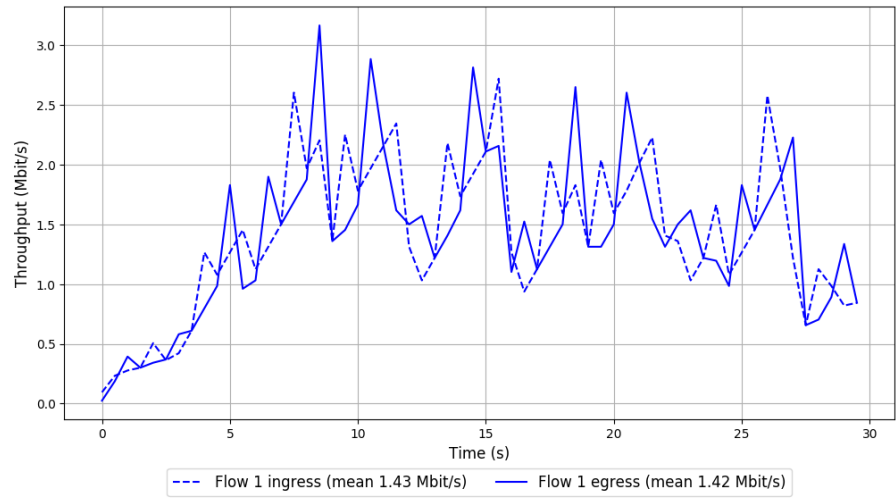
-- Flow 1:

Average throughput: 1.42 Mbit/s

95th percentile per-packet one-way delay: 115.836 ms

Loss rate: 0.28%

Run 10: Report of LEDBAT — Data Link

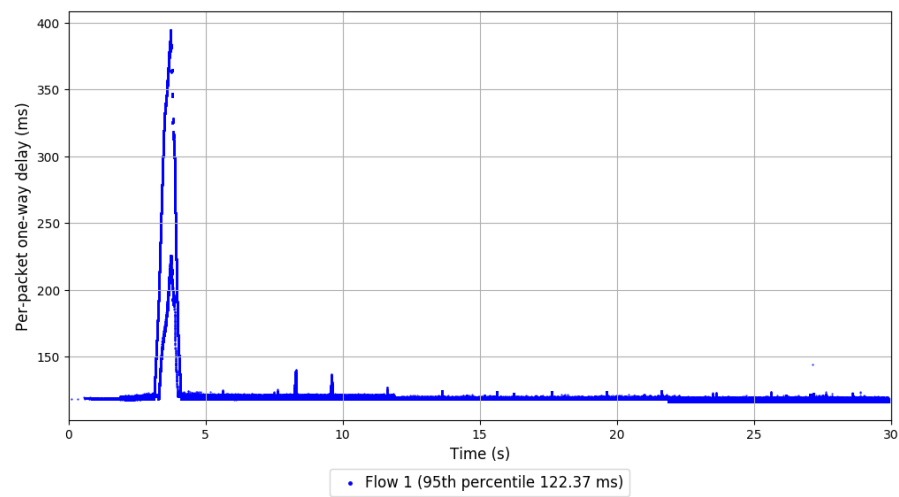
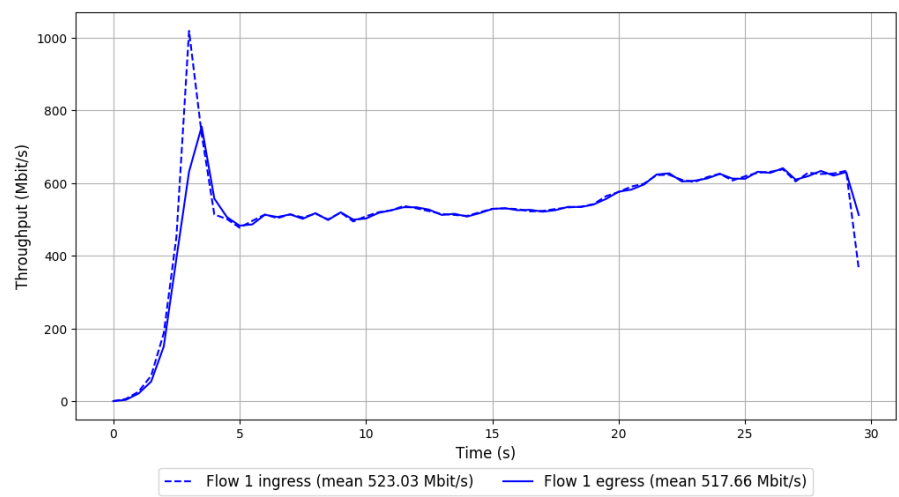


```
Run 1: Statistics of PCC

Start at: 2017-11-30 07:07:10
End at: 2017-11-30 07:07:40

# Below is generated by plot.py at 2017-11-30 09:46:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 517.66 Mbit/s
95th percentile per-packet one-way delay: 122.372 ms
Loss rate: 1.03%
-- Flow 1:
Average throughput: 517.66 Mbit/s
95th percentile per-packet one-way delay: 122.372 ms
Loss rate: 1.03%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2017-11-30 07:18:02

End at: 2017-11-30 07:18:33

Below is generated by plot.py at 2017-11-30 09:46:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 501.23 Mbit/s

95th percentile per-packet one-way delay: 130.882 ms

Loss rate: 0.39%

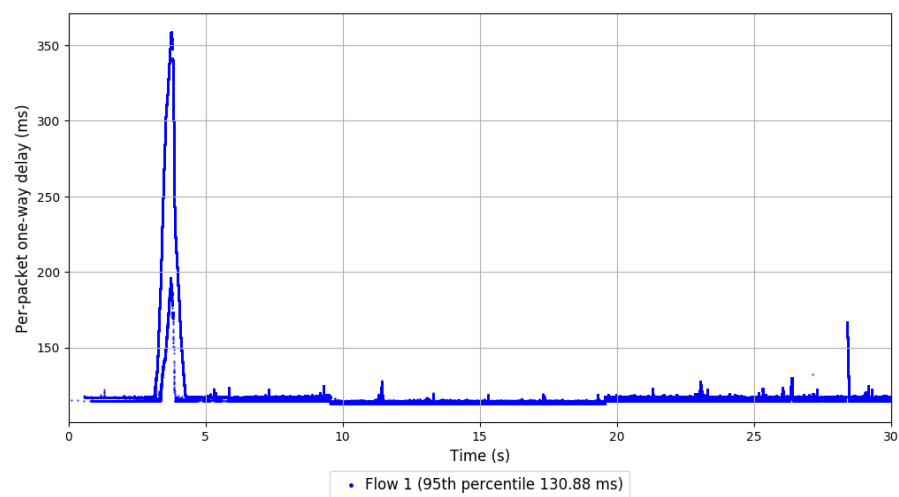
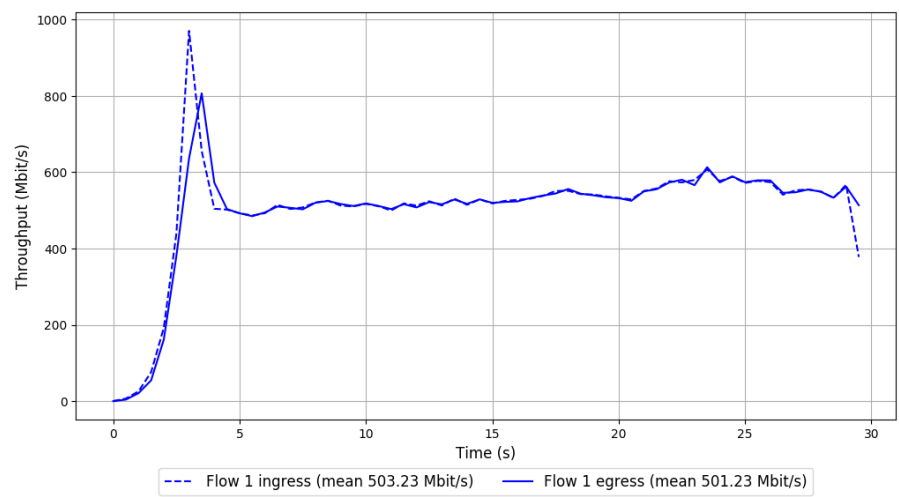
-- Flow 1:

Average throughput: 501.23 Mbit/s

95th percentile per-packet one-way delay: 130.882 ms

Loss rate: 0.39%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2017-11-30 07:29:17

End at: 2017-11-30 07:29:47

Below is generated by plot.py at 2017-11-30 09:47:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 555.74 Mbit/s

95th percentile per-packet one-way delay: 213.925 ms

Loss rate: 0.62%

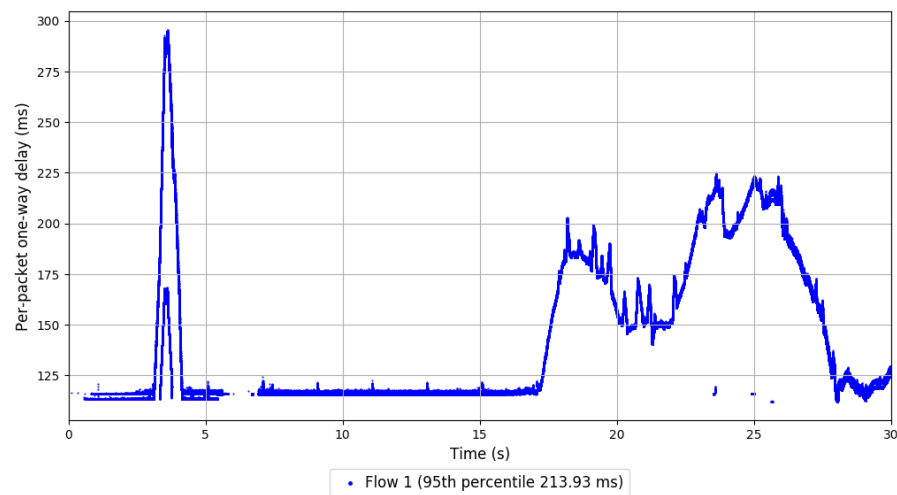
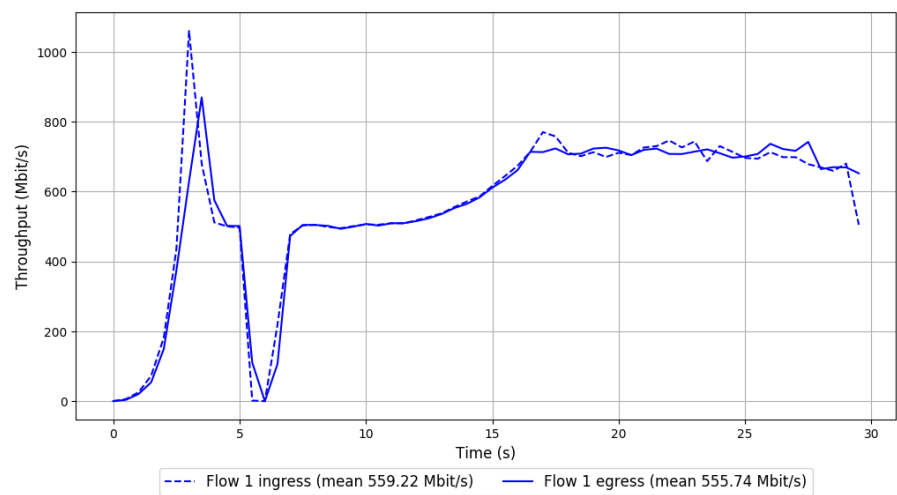
-- Flow 1:

Average throughput: 555.74 Mbit/s

95th percentile per-packet one-way delay: 213.925 ms

Loss rate: 0.62%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2017-11-30 07:40:29

End at: 2017-11-30 07:40:59

Below is generated by plot.py at 2017-11-30 09:47:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 546.45 Mbit/s

95th percentile per-packet one-way delay: 121.562 ms

Loss rate: 0.78%

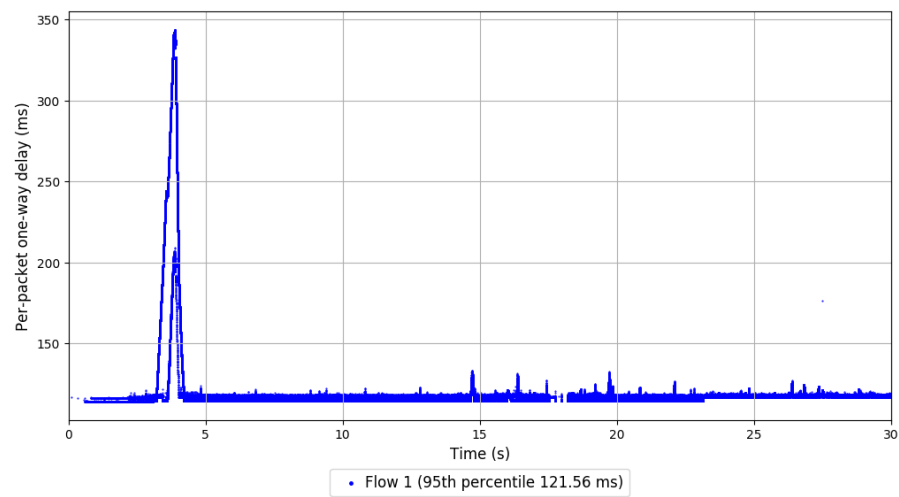
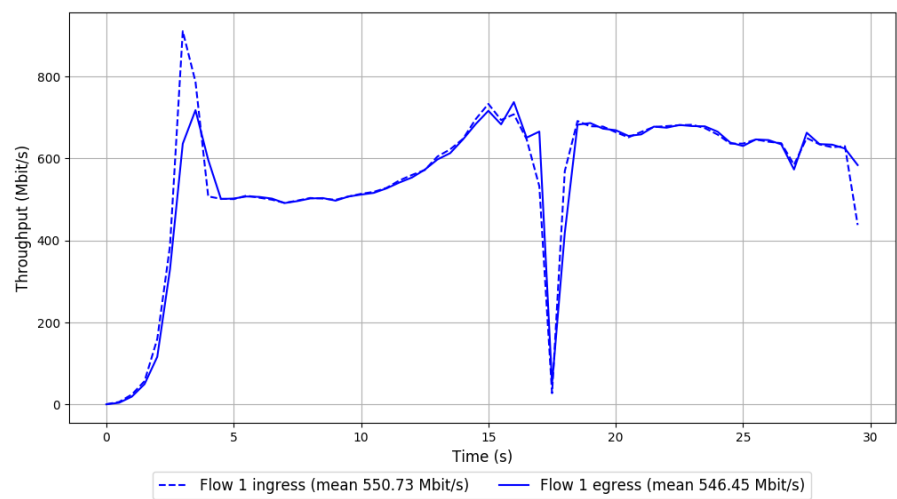
-- Flow 1:

Average throughput: 546.45 Mbit/s

95th percentile per-packet one-way delay: 121.562 ms

Loss rate: 0.78%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2017-11-30 07:51:24

End at: 2017-11-30 07:51:54

Below is generated by plot.py at 2017-11-30 09:48:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 612.98 Mbit/s

95th percentile per-packet one-way delay: 221.280 ms

Loss rate: 1.02%

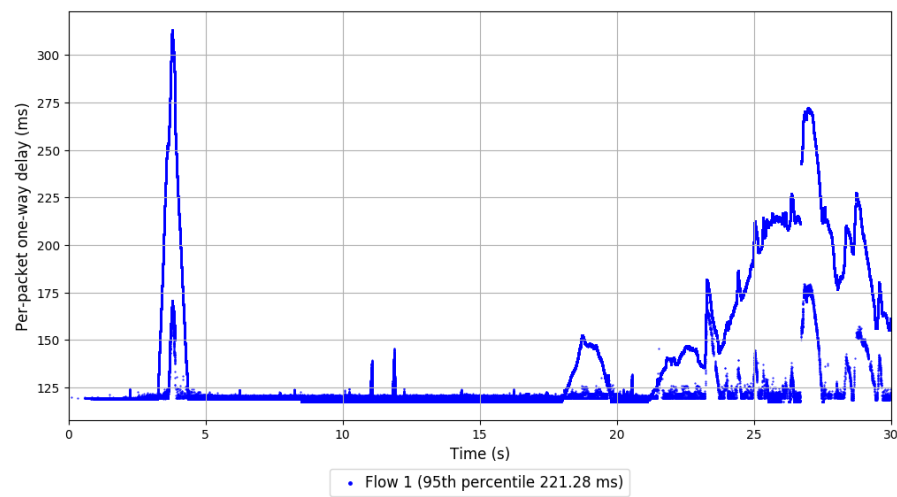
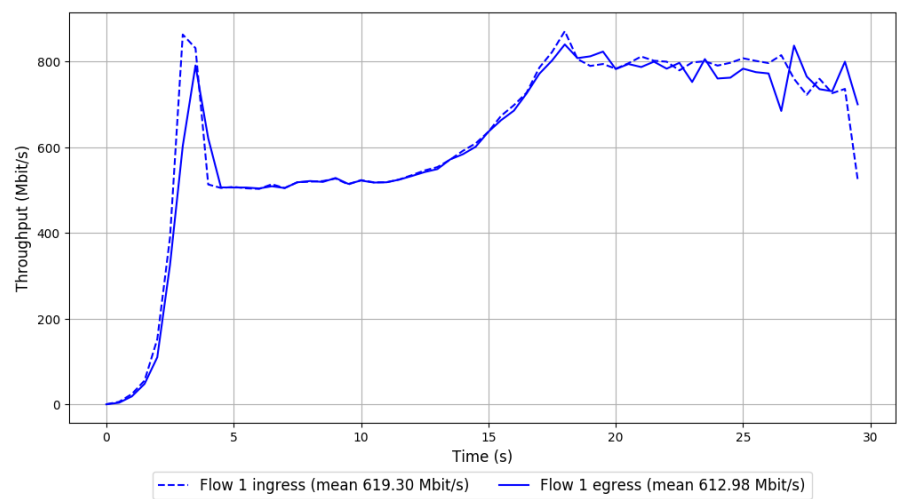
-- Flow 1:

Average throughput: 612.98 Mbit/s

95th percentile per-packet one-way delay: 221.280 ms

Loss rate: 1.02%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2017-11-30 08:02:23

End at: 2017-11-30 08:02:53

Below is generated by plot.py at 2017-11-30 09:48:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 585.02 Mbit/s

95th percentile per-packet one-way delay: 222.871 ms

Loss rate: 2.78%

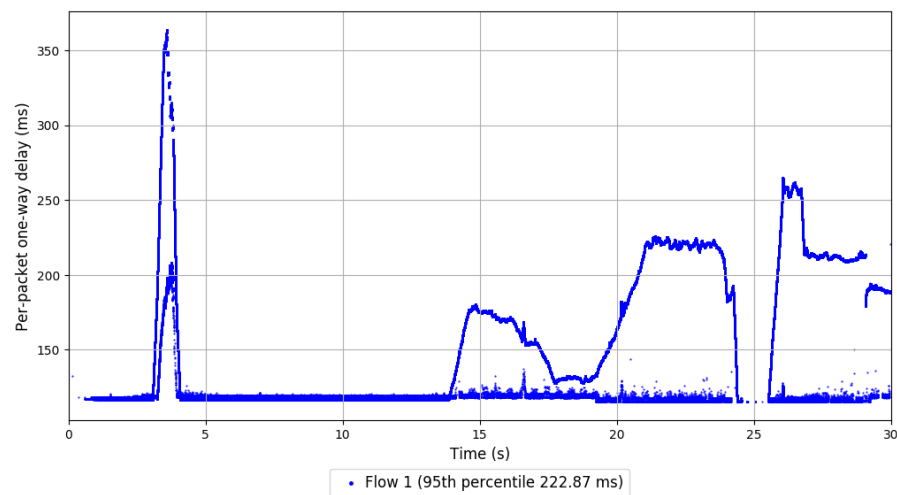
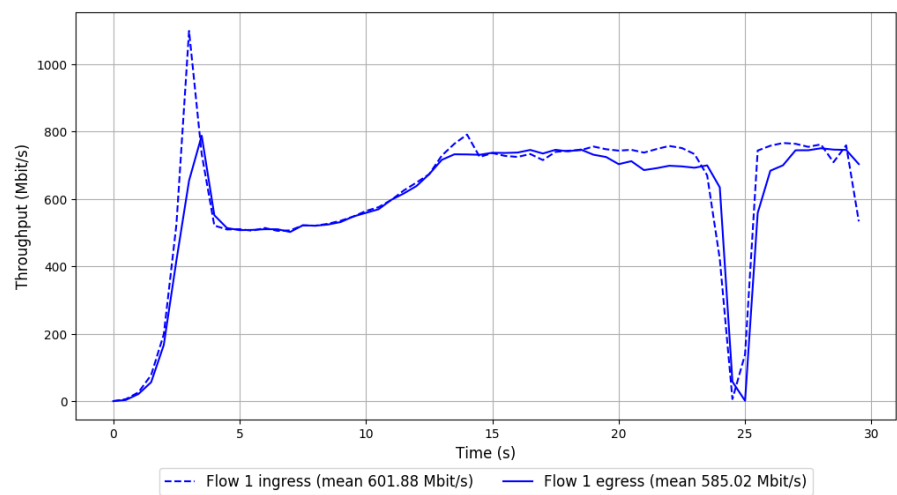
-- Flow 1:

Average throughput: 585.02 Mbit/s

95th percentile per-packet one-way delay: 222.871 ms

Loss rate: 2.78%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2017-11-30 08:13:11

End at: 2017-11-30 08:13:42

Below is generated by plot.py at 2017-11-30 09:49:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 613.24 Mbit/s

95th percentile per-packet one-way delay: 213.785 ms

Loss rate: 0.84%

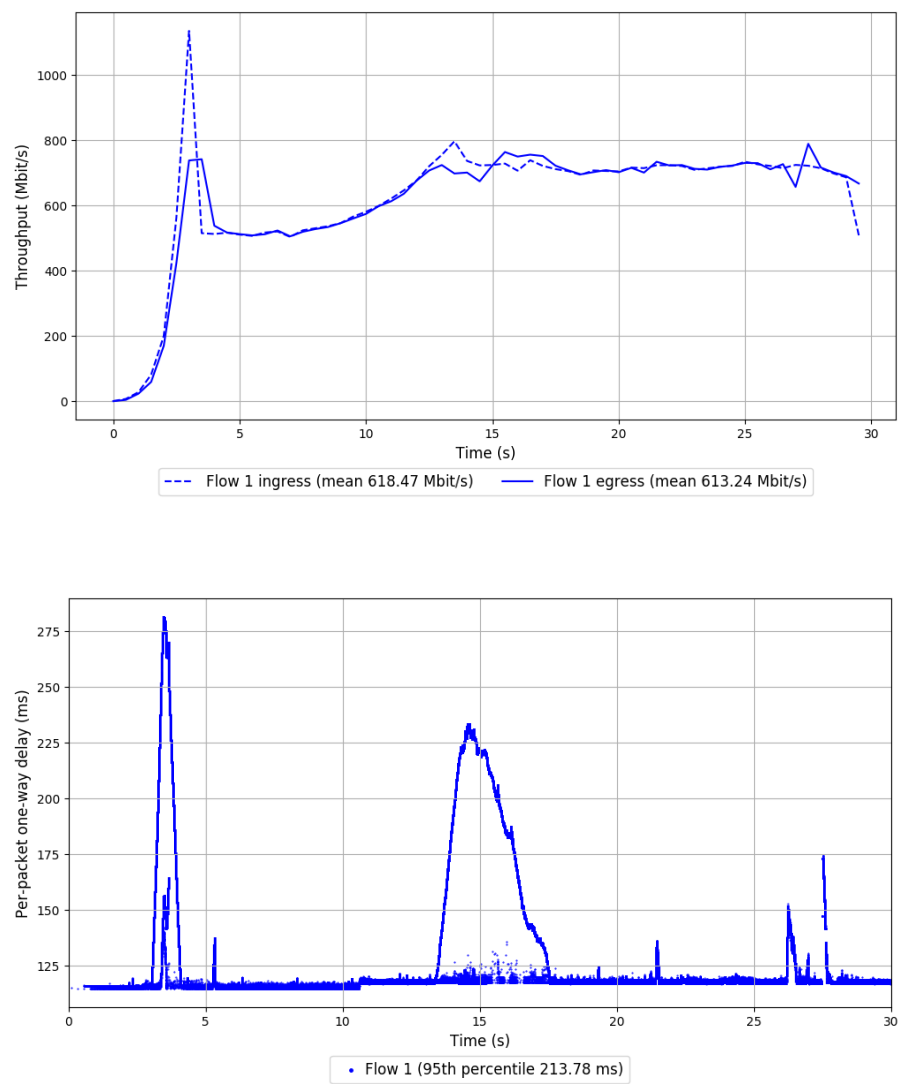
-- Flow 1:

Average throughput: 613.24 Mbit/s

95th percentile per-packet one-way delay: 213.785 ms

Loss rate: 0.84%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2017-11-30 08:24:32

End at: 2017-11-30 08:25:02

Below is generated by plot.py at 2017-11-30 09:49:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 625.29 Mbit/s

95th percentile per-packet one-way delay: 213.050 ms

Loss rate: 1.11%

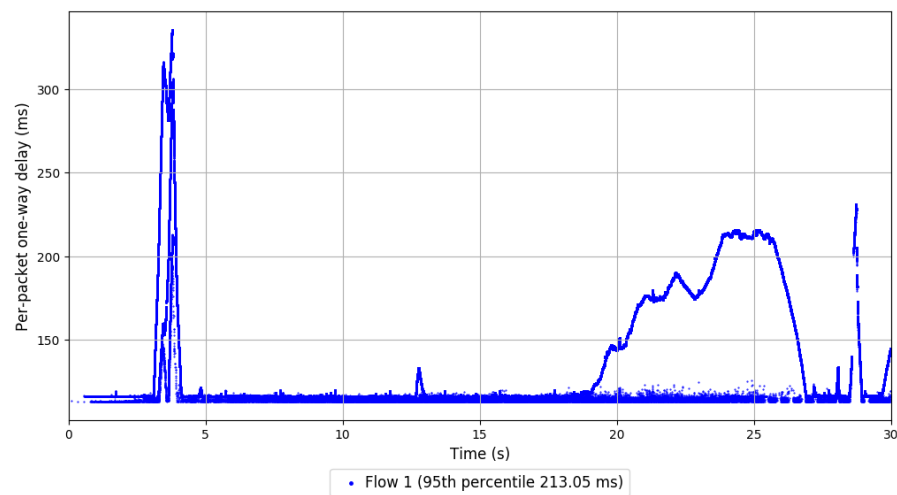
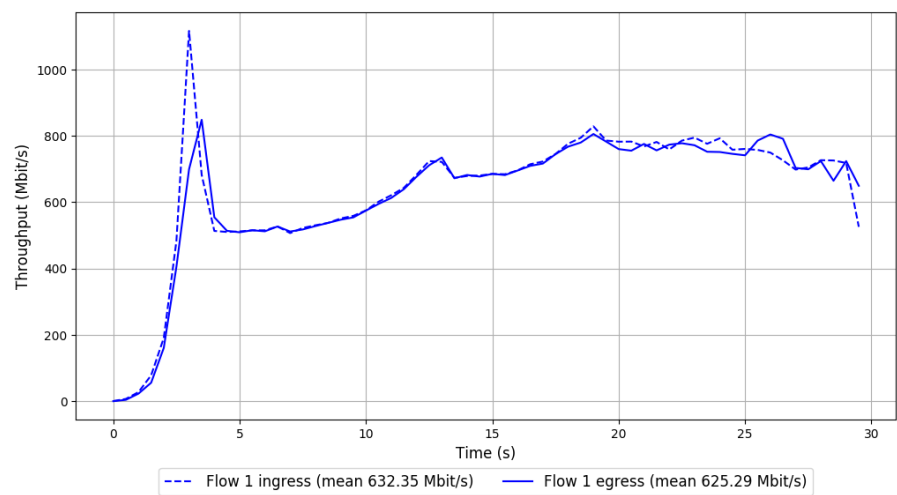
-- Flow 1:

Average throughput: 625.29 Mbit/s

95th percentile per-packet one-way delay: 213.050 ms

Loss rate: 1.11%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2017-11-30 08:36:00

End at: 2017-11-30 08:36:30

Below is generated by plot.py at 2017-11-30 09:57:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 539.30 Mbit/s

95th percentile per-packet one-way delay: 179.251 ms

Loss rate: 0.67%

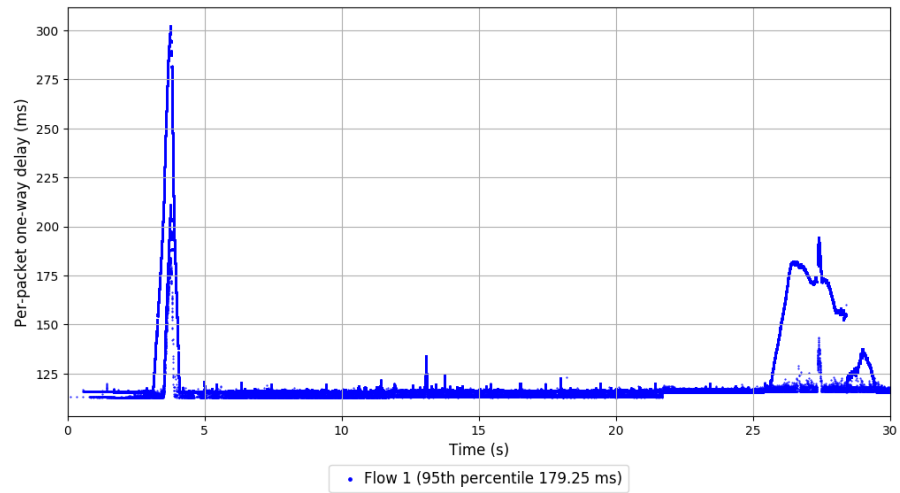
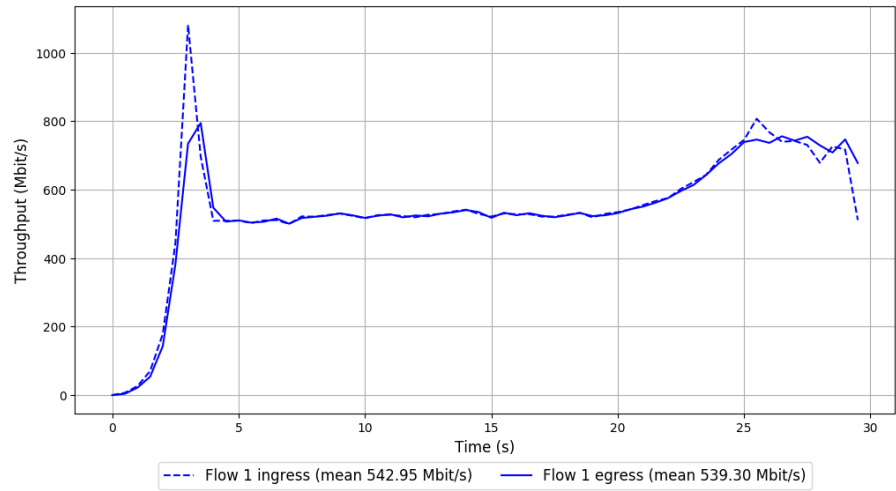
-- Flow 1:

Average throughput: 539.30 Mbit/s

95th percentile per-packet one-way delay: 179.251 ms

Loss rate: 0.67%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2017-11-30 08:46:56

End at: 2017-11-30 08:47:26

Below is generated by plot.py at 2017-11-30 09:58:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 566.40 Mbit/s

95th percentile per-packet one-way delay: 156.670 ms

Loss rate: 0.87%

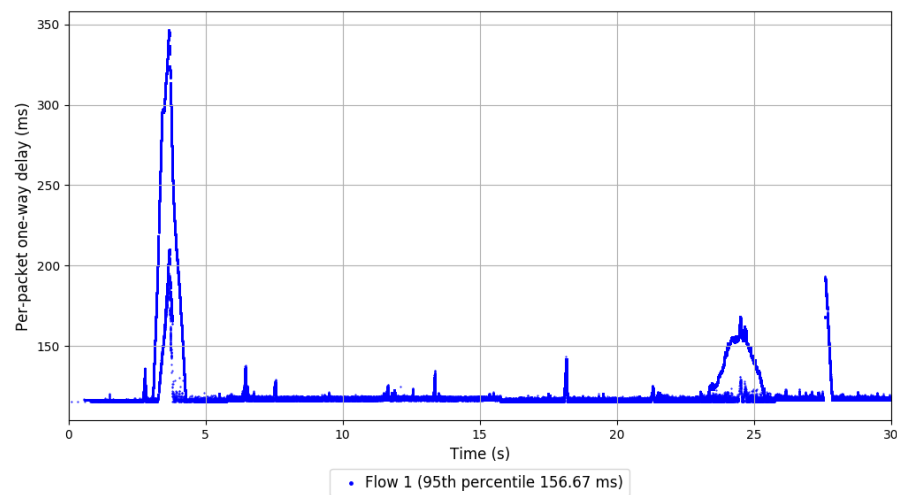
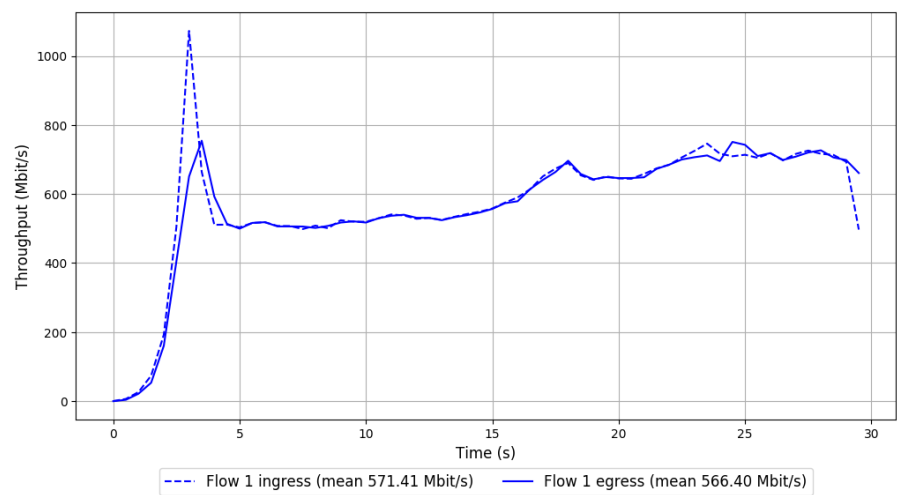
-- Flow 1:

Average throughput: 566.40 Mbit/s

95th percentile per-packet one-way delay: 156.670 ms

Loss rate: 0.87%

Run 10: Report of PCC — Data Link

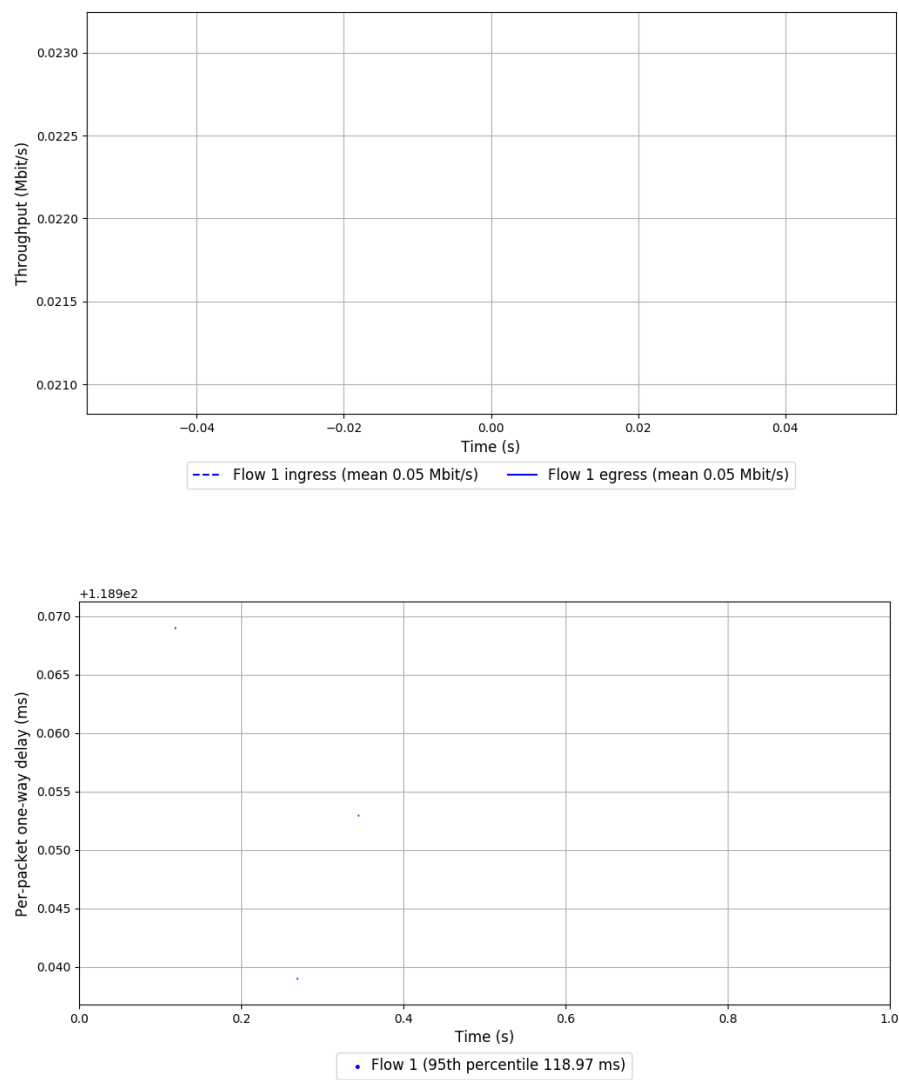


Run 1: Statistics of QUIC Cubic

Start at: 2017-11-30 07:09:51

End at: 2017-11-30 07:10:21

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2017-11-30 07:20:46

End at: 2017-11-30 07:21:16

Below is generated by plot.py at 2017-11-30 09:58:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 55.94 Mbit/s

95th percentile per-packet one-way delay: 116.303 ms

Loss rate: 0.00%

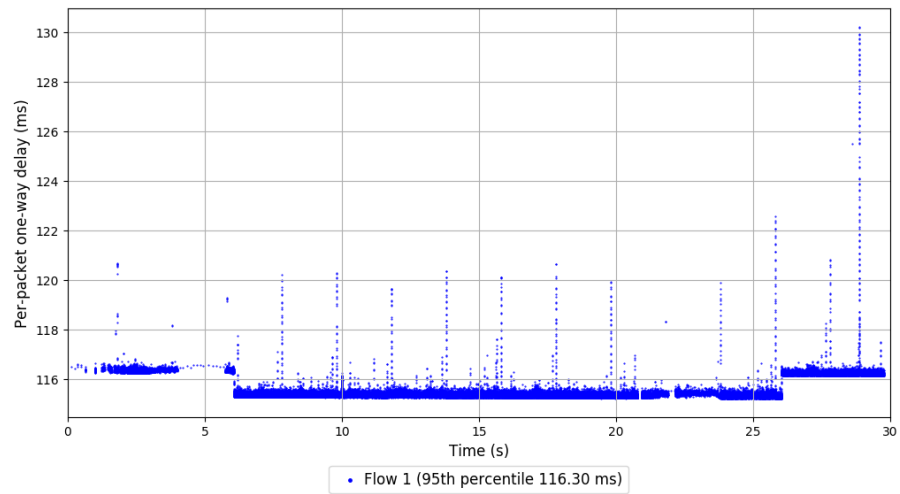
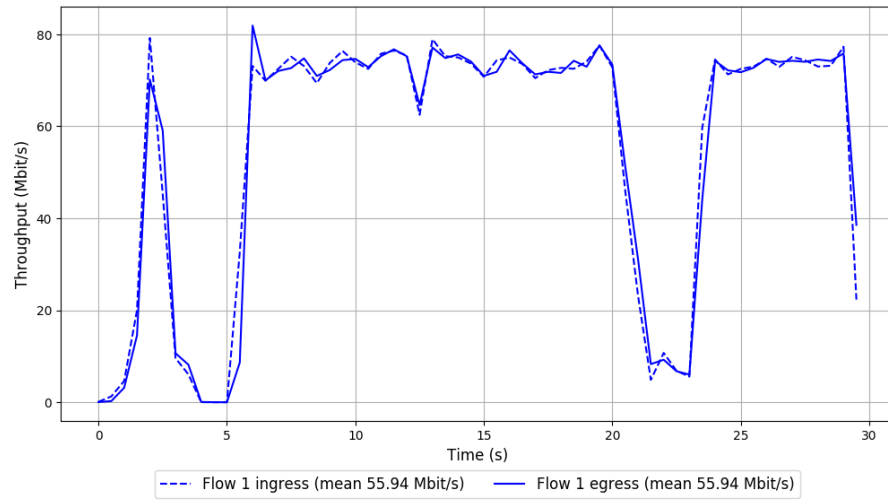
-- Flow 1:

Average throughput: 55.94 Mbit/s

95th percentile per-packet one-way delay: 116.303 ms

Loss rate: 0.00%

Run 2: Report of QUIC Cubic — Data Link

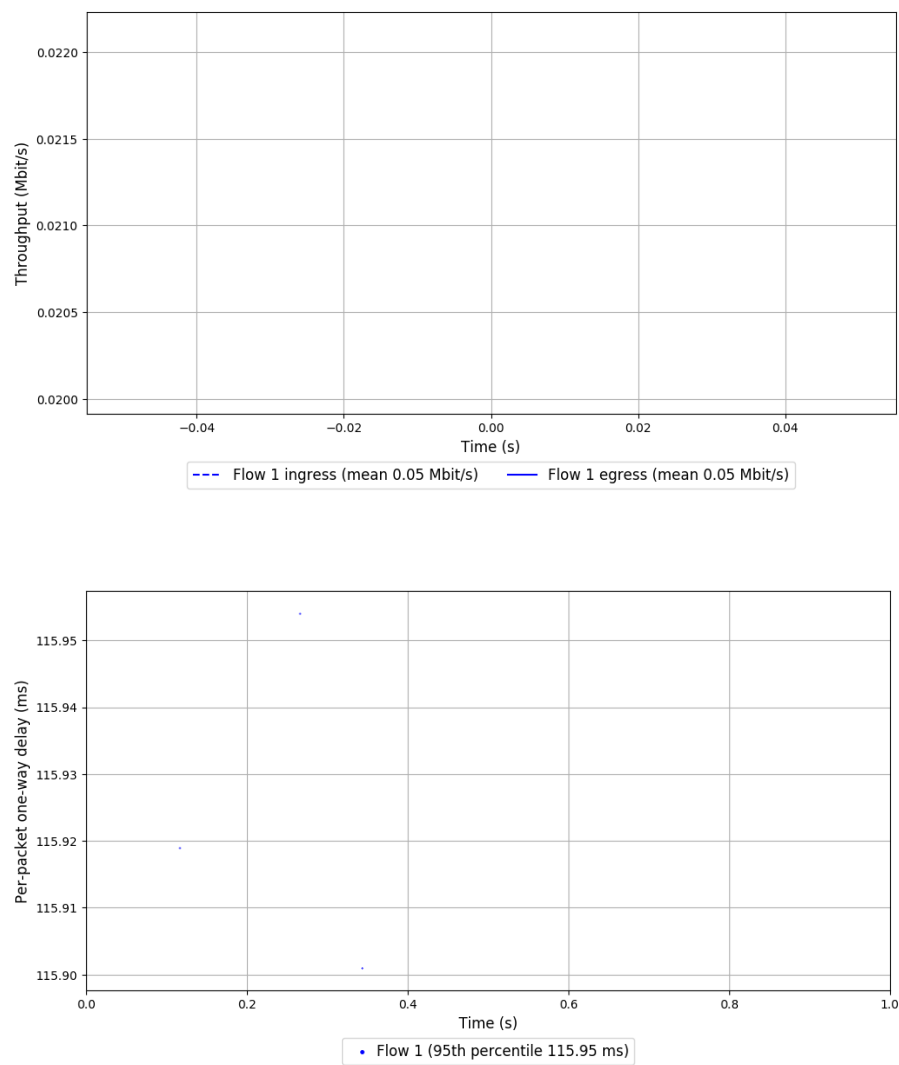


Run 3: Statistics of QUIC Cubic

Start at: 2017-11-30 07:32:05

End at: 2017-11-30 07:32:35

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2017-11-30 07:43:14

End at: 2017-11-30 07:43:44

Below is generated by plot.py at 2017-11-30 09:58:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 66.31 Mbit/s

95th percentile per-packet one-way delay: 118.602 ms

Loss rate: 0.00%

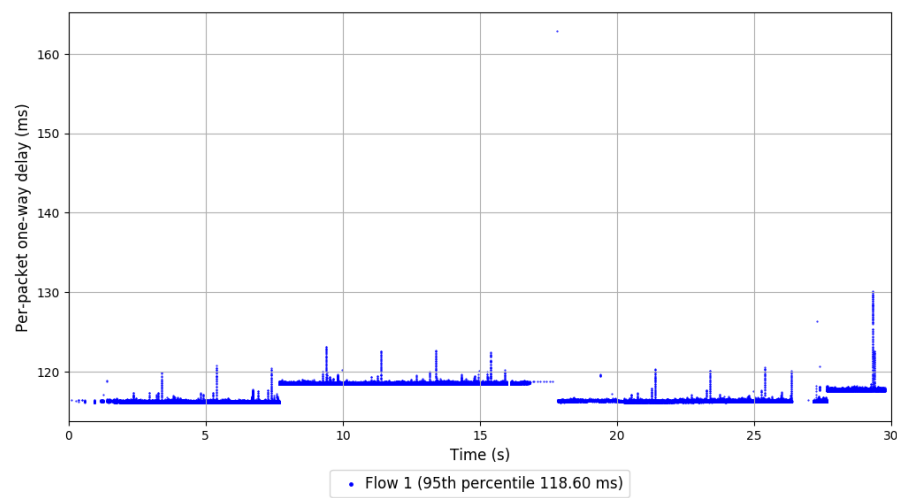
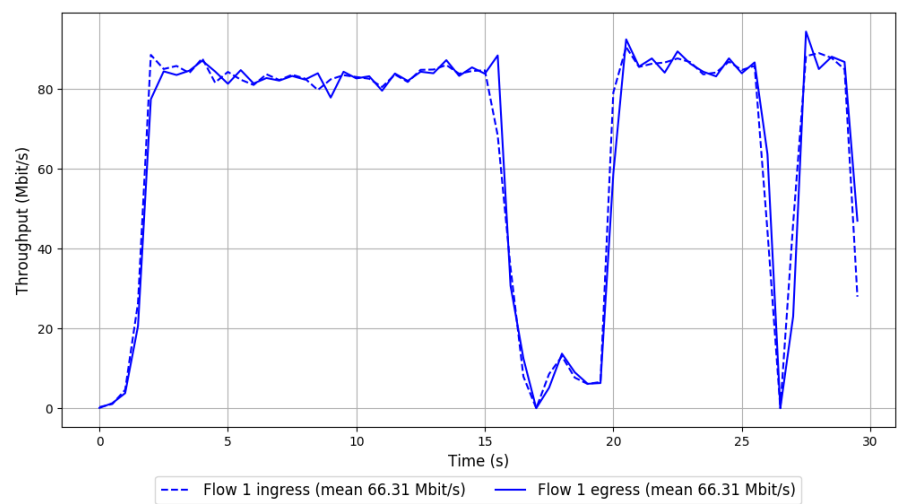
-- Flow 1:

Average throughput: 66.31 Mbit/s

95th percentile per-packet one-way delay: 118.602 ms

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2017-11-30 07:54:11

End at: 2017-11-30 07:54:41

Below is generated by plot.py at 2017-11-30 09:58:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.78 Mbit/s

95th percentile per-packet one-way delay: 117.351 ms

Loss rate: 0.00%

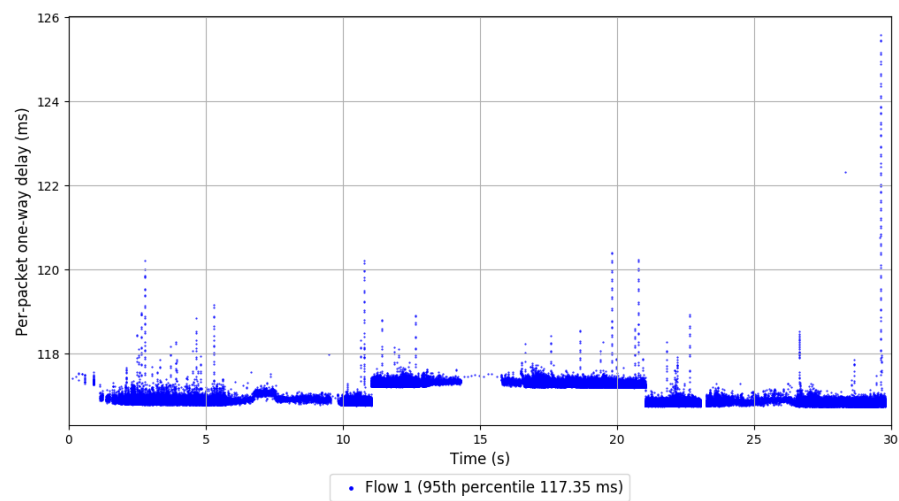
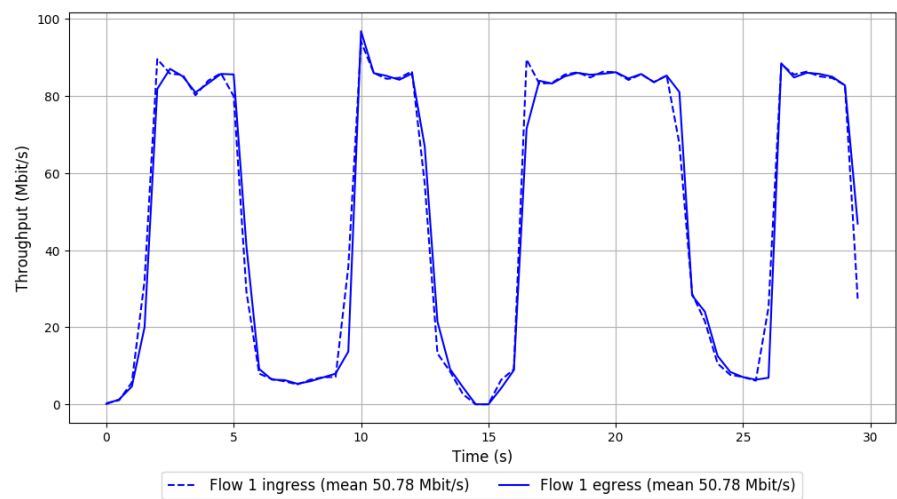
-- Flow 1:

Average throughput: 50.78 Mbit/s

95th percentile per-packet one-way delay: 117.351 ms

Loss rate: 0.00%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2017-11-30 08:05:06

End at: 2017-11-30 08:05:36

Below is generated by plot.py at 2017-11-30 09:58:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 60.15 Mbit/s

95th percentile per-packet one-way delay: 117.887 ms

Loss rate: 0.00%

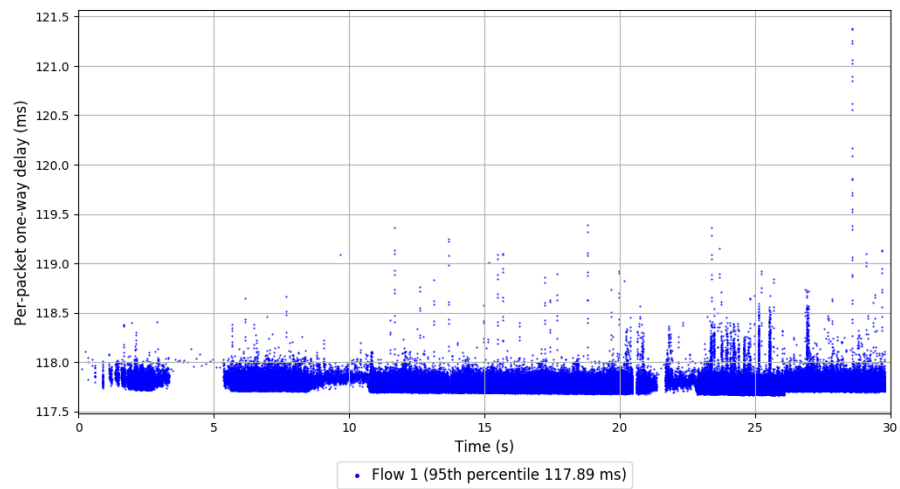
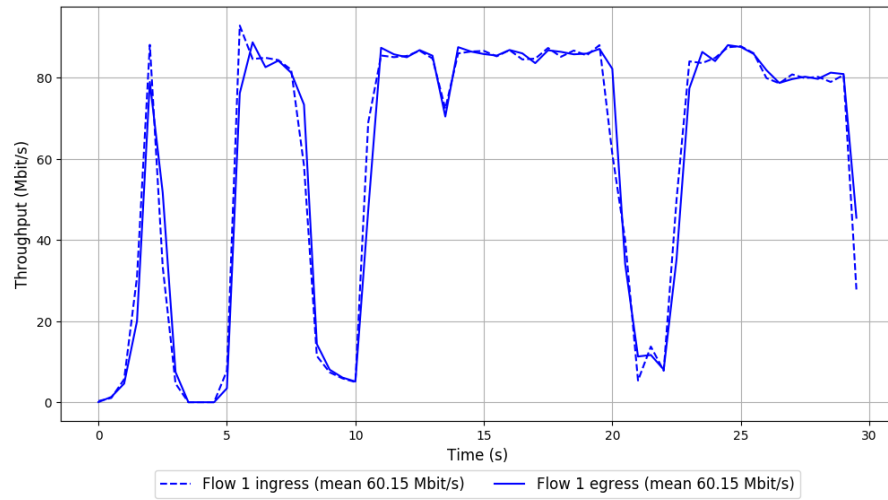
-- Flow 1:

Average throughput: 60.15 Mbit/s

95th percentile per-packet one-way delay: 117.887 ms

Loss rate: 0.00%

Run 6: Report of QUIC Cubic — Data Link

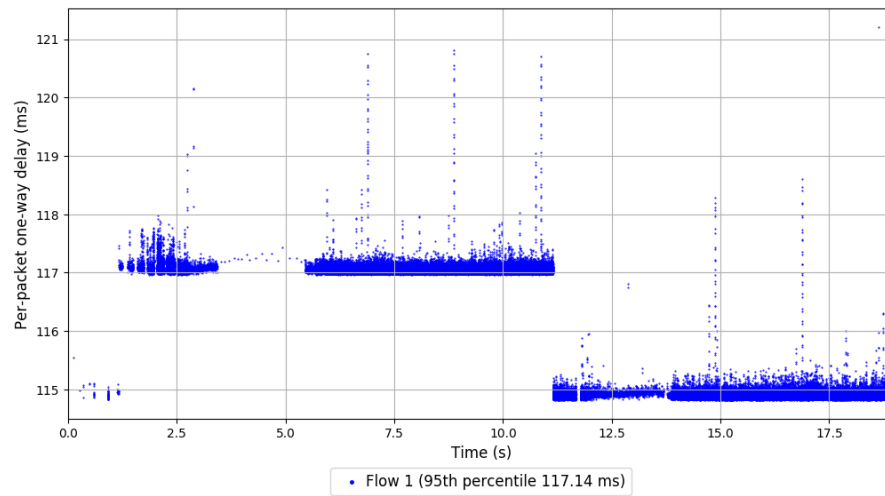
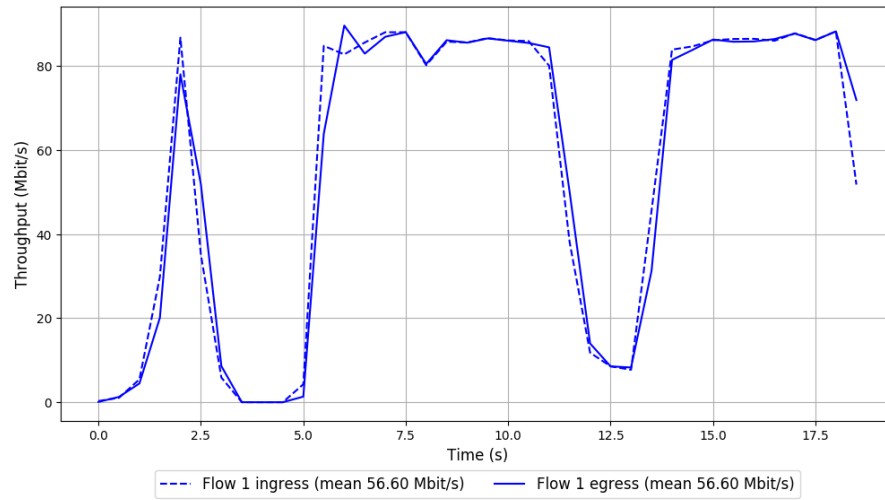


Run 7: Statistics of QUIC Cubic

Start at: 2017-11-30 08:16:00

End at: 2017-11-30 08:16:30

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2017-11-30 08:27:28

End at: 2017-11-30 08:27:58

Below is generated by plot.py at 2017-11-30 09:58:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 58.79 Mbit/s

95th percentile per-packet one-way delay: 116.375 ms

Loss rate: 0.00%

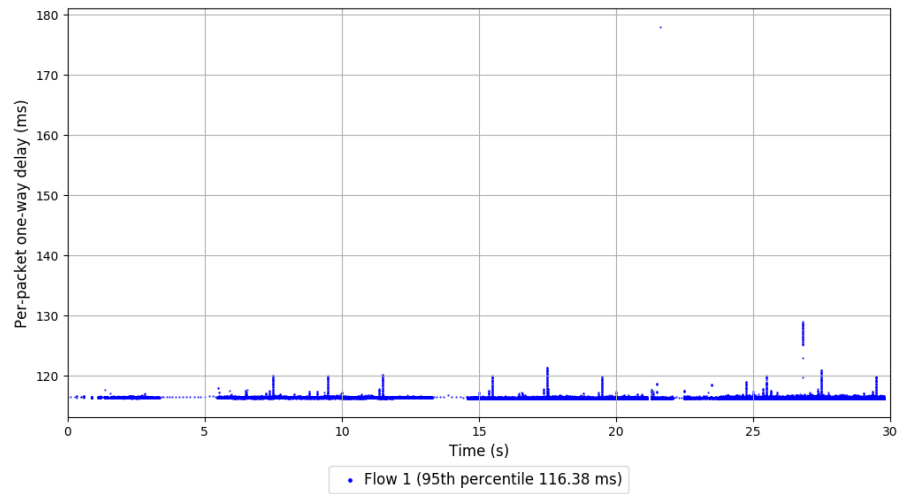
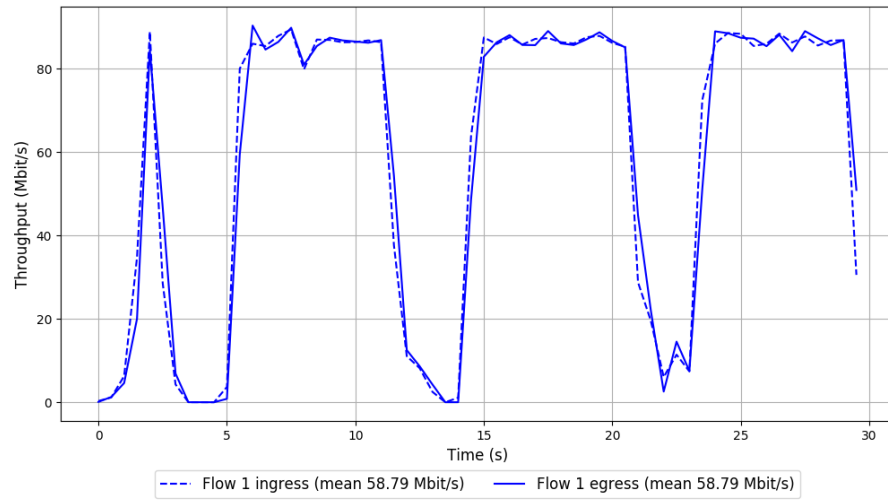
-- Flow 1:

Average throughput: 58.79 Mbit/s

95th percentile per-packet one-way delay: 116.375 ms

Loss rate: 0.00%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2017-11-30 08:38:43

End at: 2017-11-30 08:39:13

Below is generated by plot.py at 2017-11-30 09:58:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 57.84 Mbit/s

95th percentile per-packet one-way delay: 116.767 ms

Loss rate: 0.00%

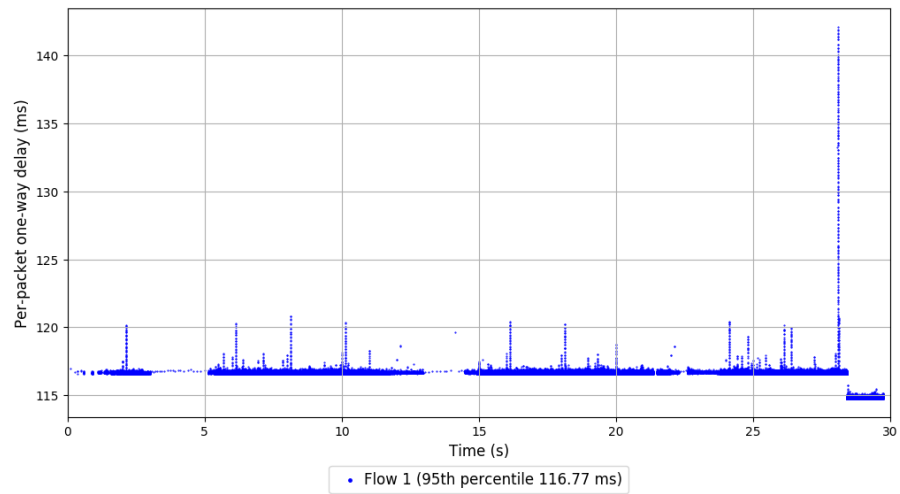
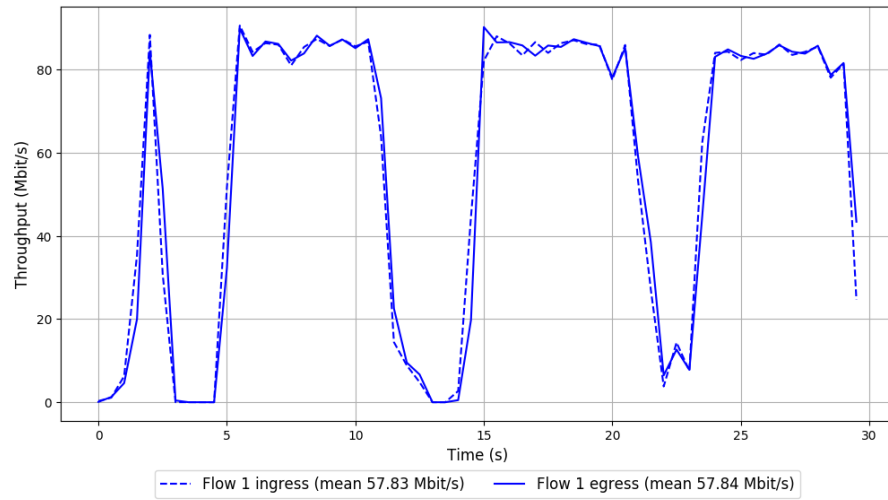
-- Flow 1:

Average throughput: 57.84 Mbit/s

95th percentile per-packet one-way delay: 116.767 ms

Loss rate: 0.00%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2017-11-30 08:49:42

End at: 2017-11-30 08:50:12

Below is generated by plot.py at 2017-11-30 09:58:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 58.34 Mbit/s

95th percentile per-packet one-way delay: 118.110 ms

Loss rate: 0.01%

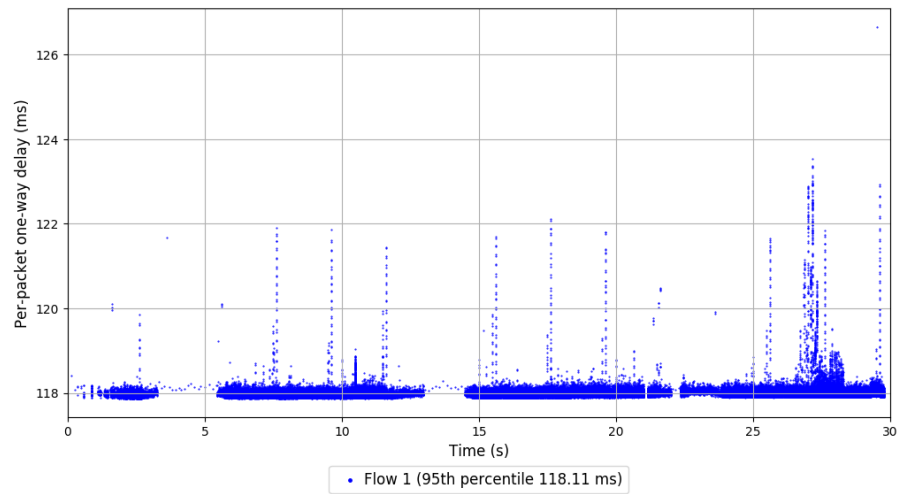
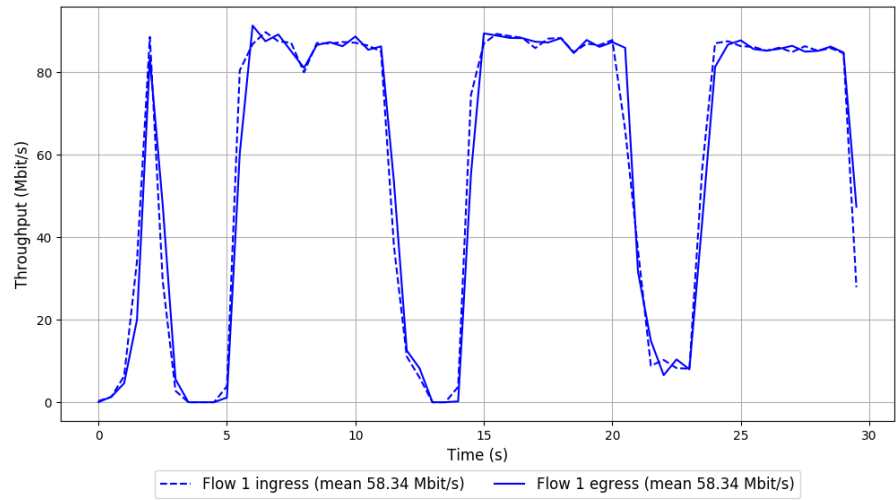
-- Flow 1:

Average throughput: 58.34 Mbit/s

95th percentile per-packet one-way delay: 118.110 ms

Loss rate: 0.01%

Run 10: Report of QUIC Cubic — Data Link

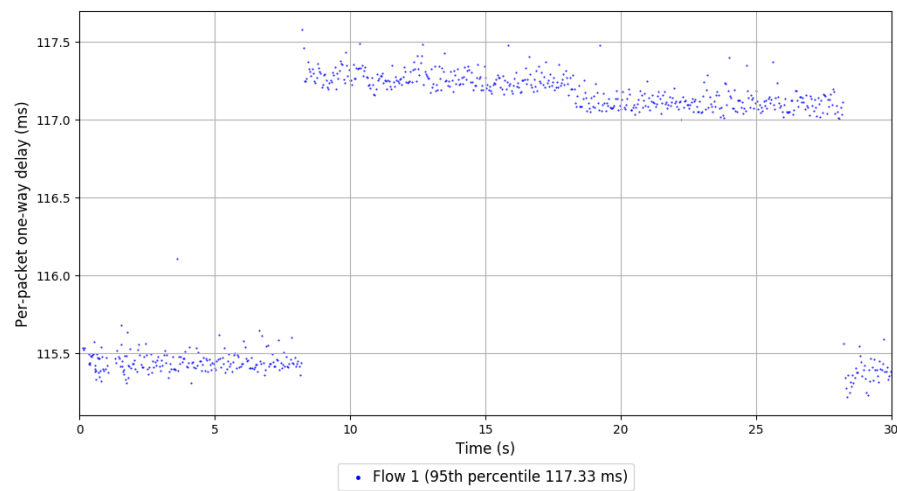
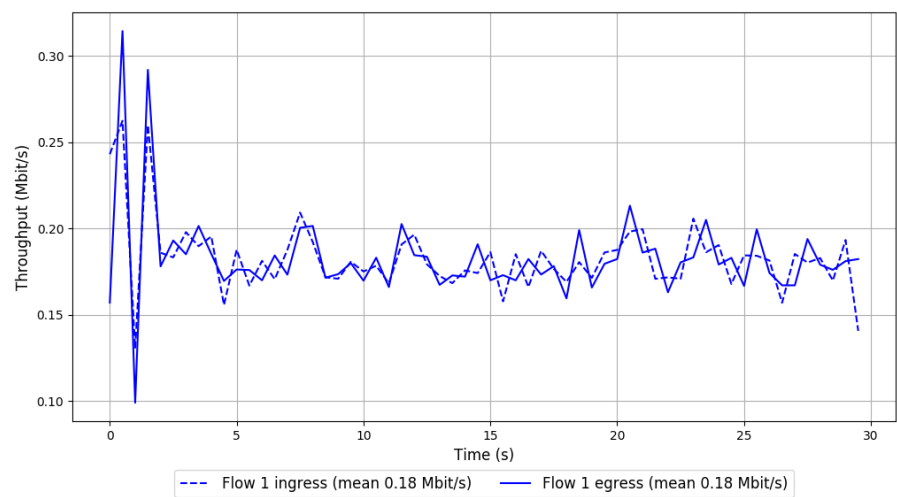


```
Run 1: Statistics of SCReAM

Start at: 2017-11-30 07:15:54
End at: 2017-11-30 07:16:24

# Below is generated by plot.py at 2017-11-30 09:58:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 117.334 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 117.334 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2017-11-30 07:27:08

End at: 2017-11-30 07:27:38

Below is generated by plot.py at 2017-11-30 09:58:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 115.056 ms

Loss rate: 0.00%

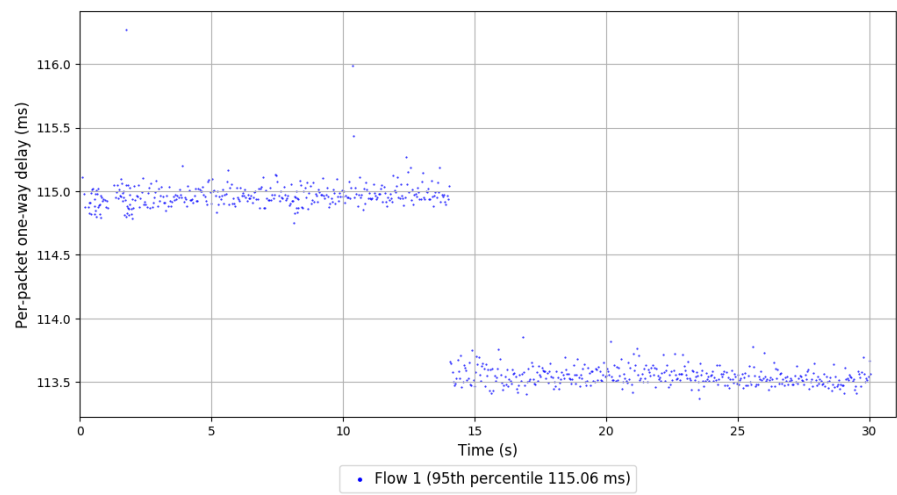
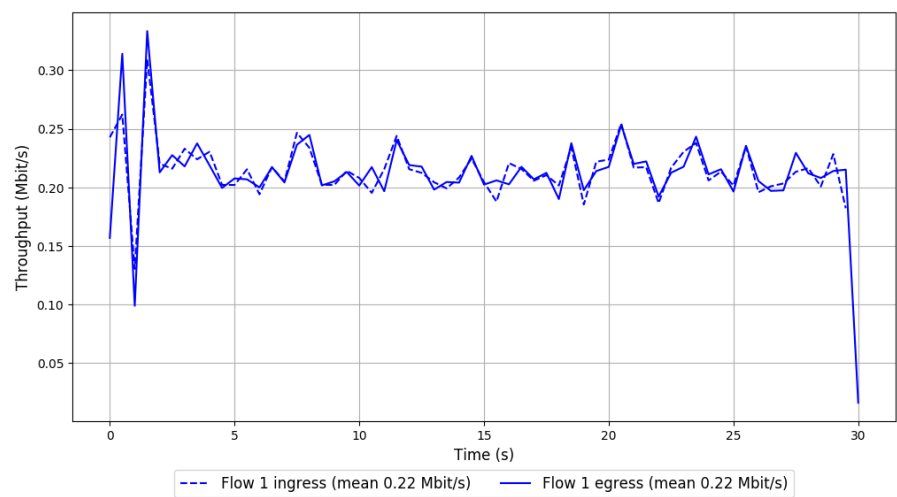
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 115.056 ms

Loss rate: 0.00%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2017-11-30 07:38:21

End at: 2017-11-30 07:38:51

Below is generated by plot.py at 2017-11-30 09:58:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.11 Mbit/s

95th percentile per-packet one-way delay: 115.837 ms

Loss rate: 0.00%

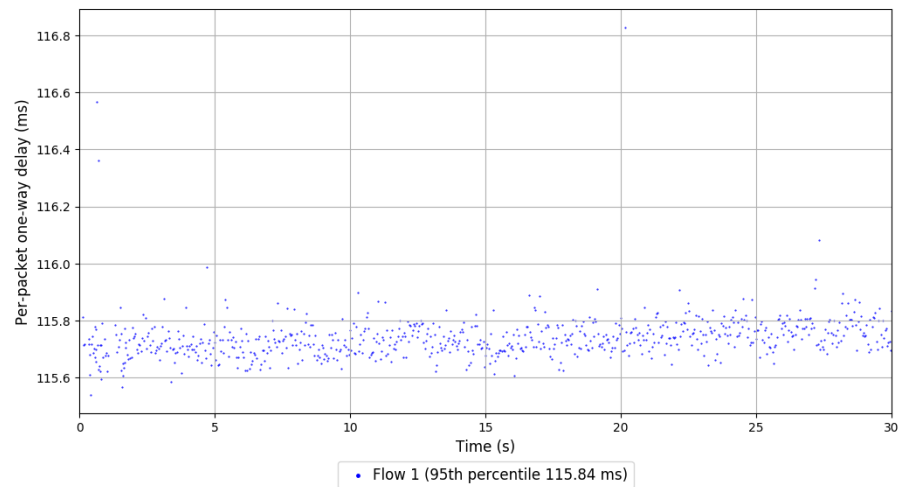
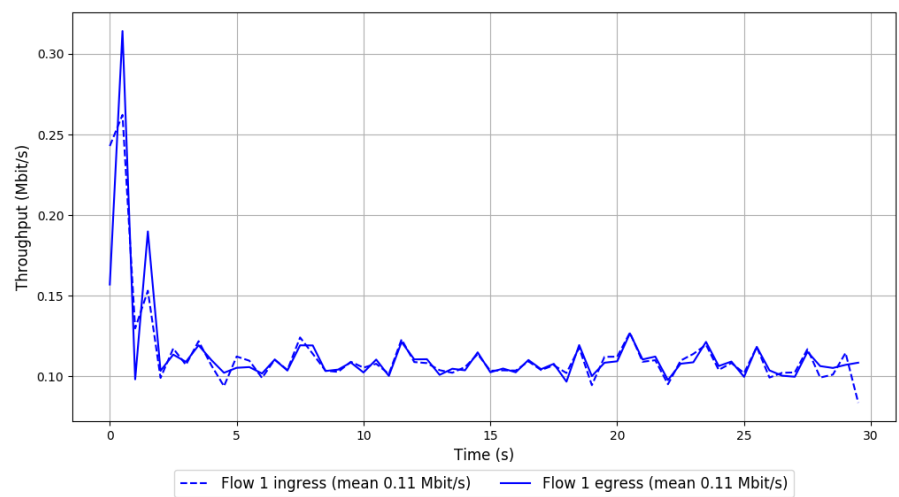
-- Flow 1:

Average throughput: 0.11 Mbit/s

95th percentile per-packet one-way delay: 115.837 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2017-11-30 07:49:15

End at: 2017-11-30 07:49:45

Below is generated by plot.py at 2017-11-30 09:58:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 118.732 ms

Loss rate: 0.00%

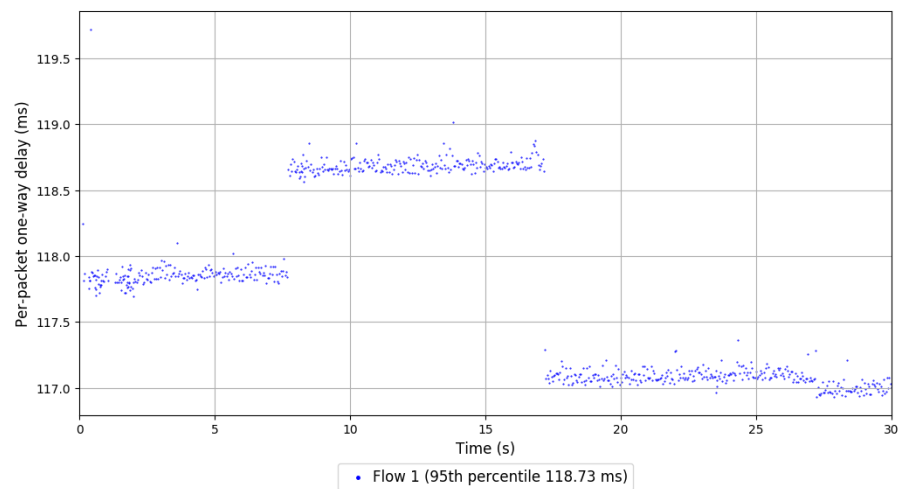
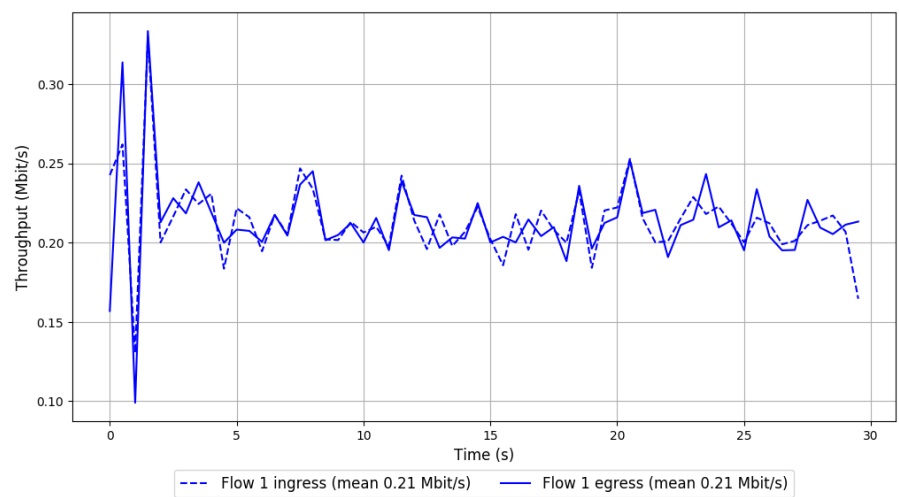
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 118.732 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2017-11-30 08:00:14

End at: 2017-11-30 08:00:44

Below is generated by plot.py at 2017-11-30 09:58:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 117.763 ms

Loss rate: 0.00%

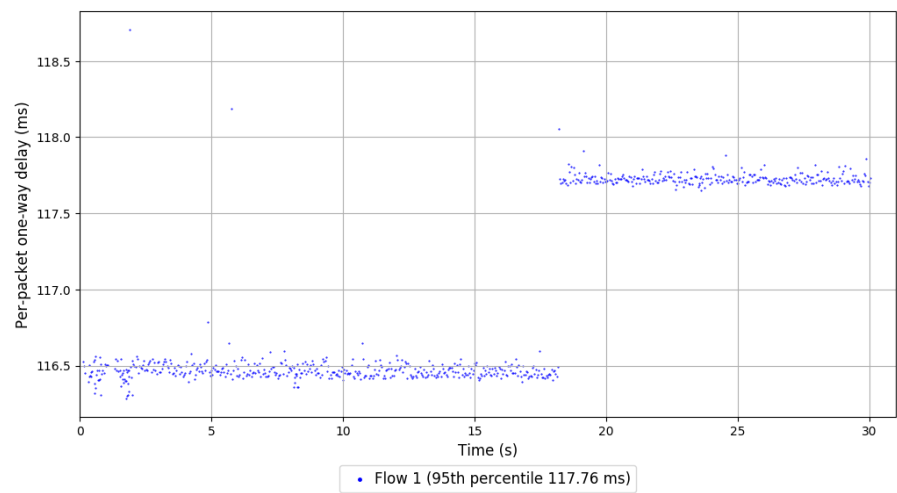
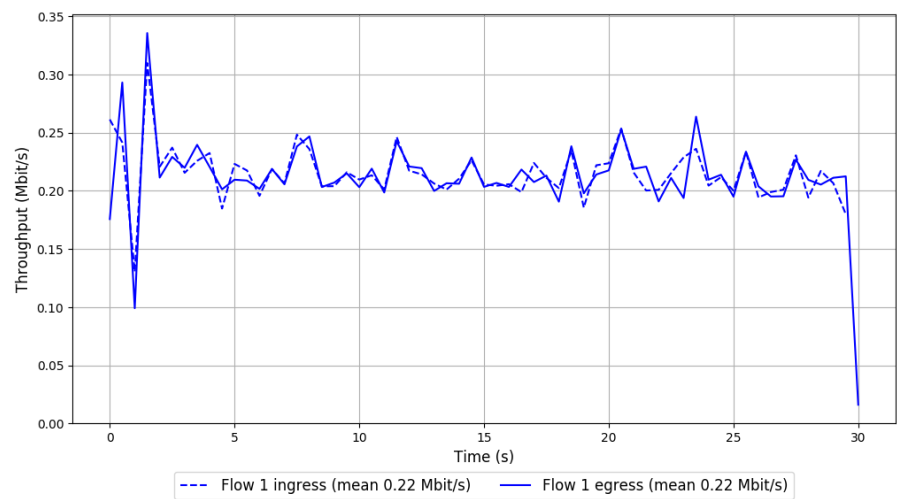
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 117.763 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2017-11-30 08:11:03

End at: 2017-11-30 08:11:33

Below is generated by plot.py at 2017-11-30 09:58:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 117.211 ms

Loss rate: 0.00%

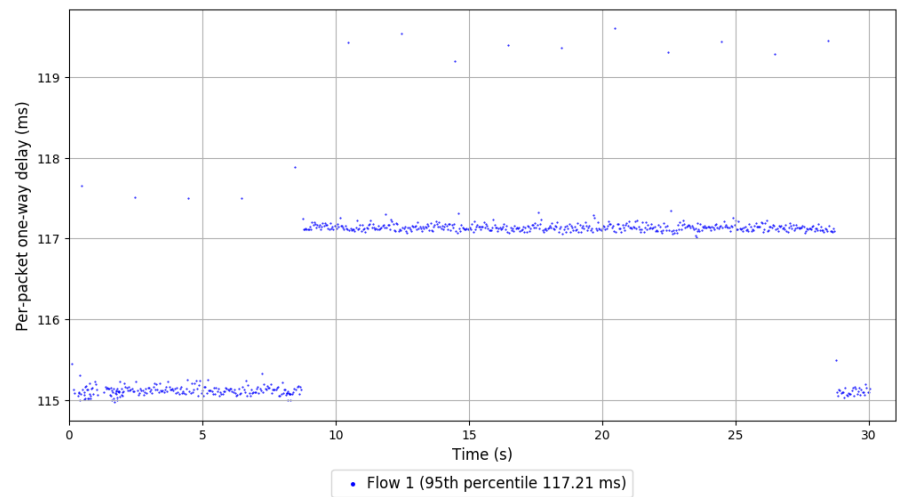
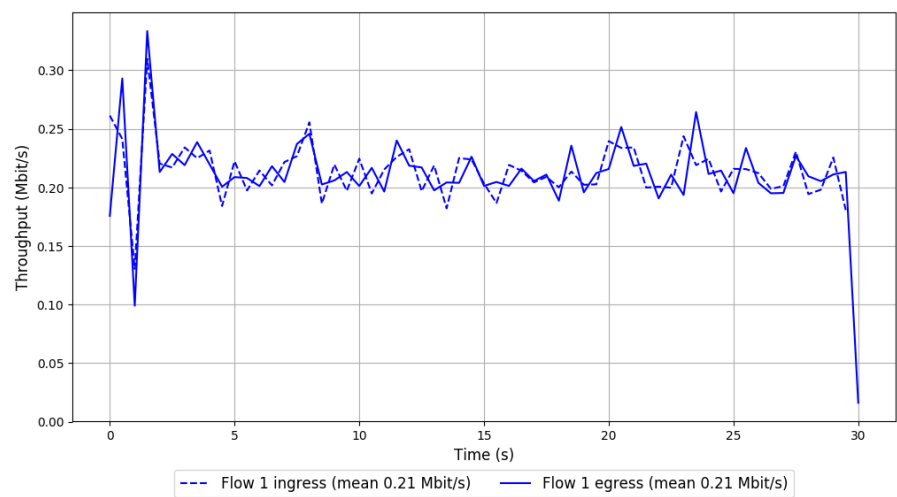
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 117.211 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2017-11-30 08:22:26

End at: 2017-11-30 08:22:56

Below is generated by plot.py at 2017-11-30 09:58:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 114.479 ms

Loss rate: 0.00%

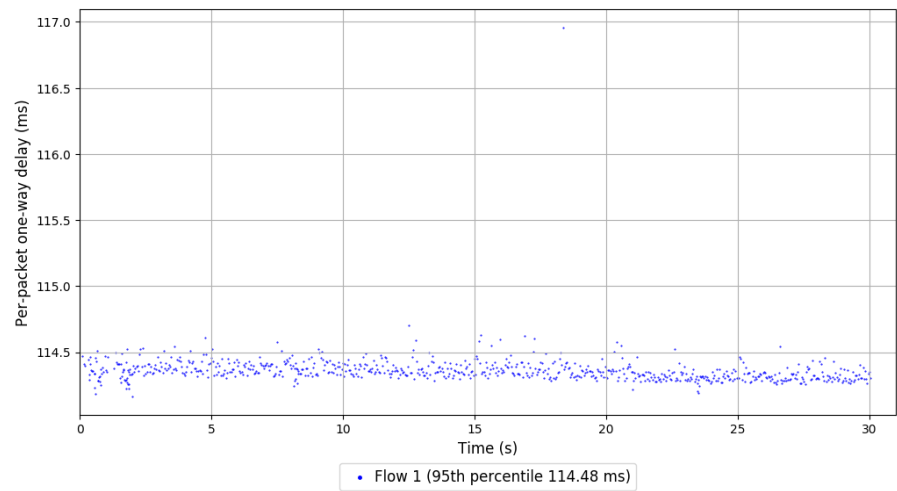
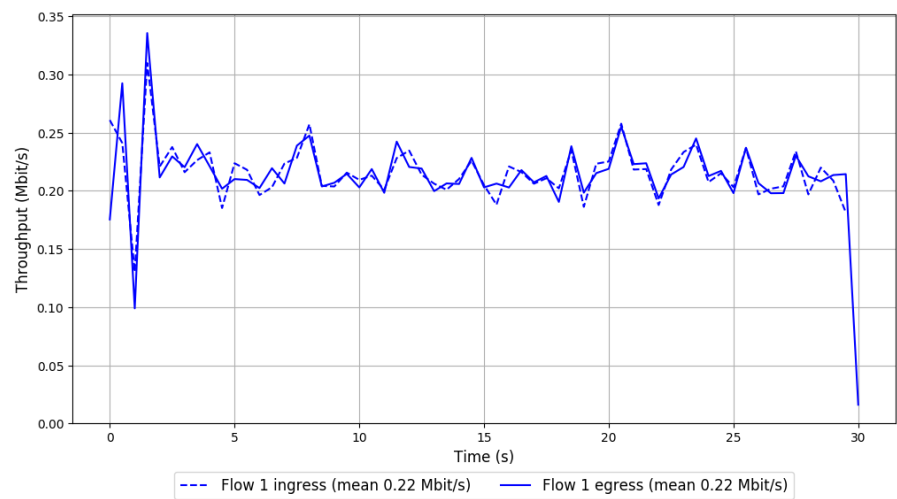
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 114.479 ms

Loss rate: 0.00%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2017-11-30 08:33:51

End at: 2017-11-30 08:34:21

Below is generated by plot.py at 2017-11-30 09:58:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 116.539 ms

Loss rate: 0.00%

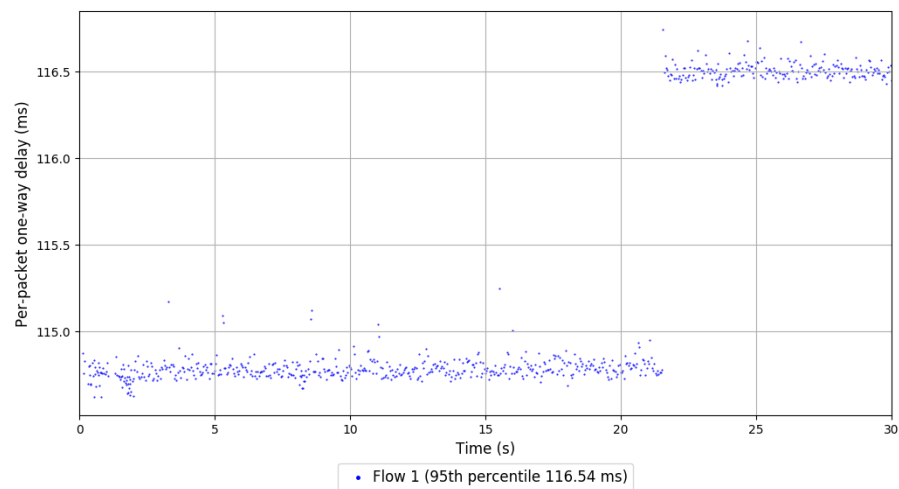
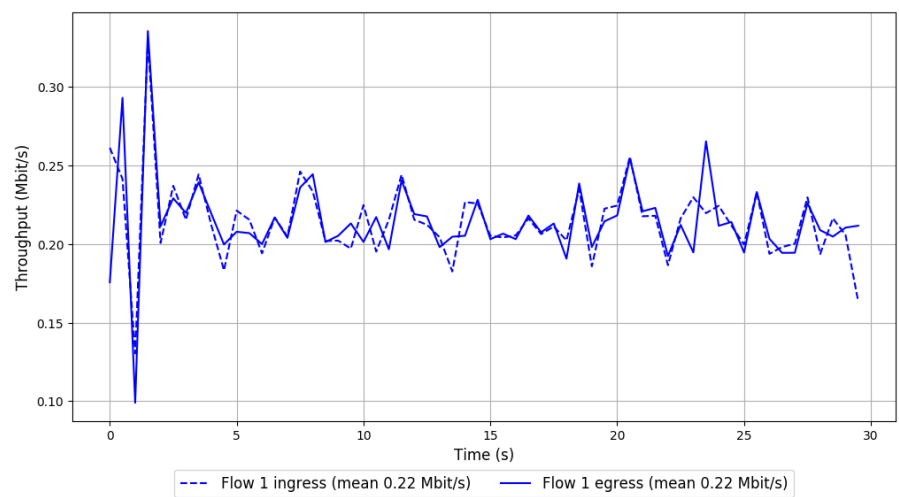
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 116.539 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2017-11-30 08:44:48

End at: 2017-11-30 08:45:18

Below is generated by plot.py at 2017-11-30 09:58:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 117.665 ms

Loss rate: 0.00%

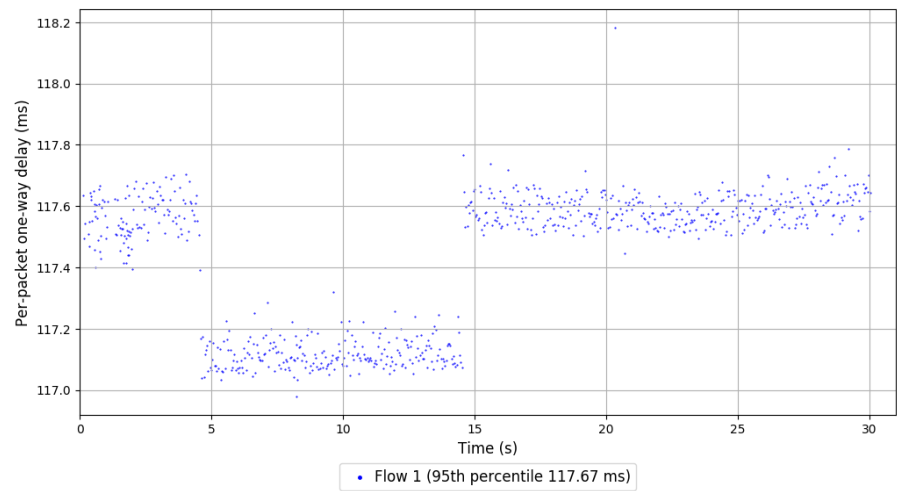
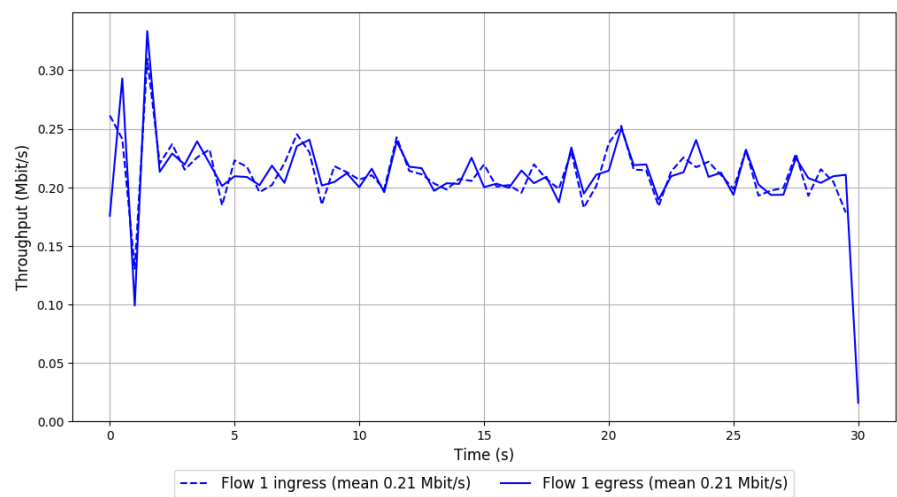
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 117.665 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2017-11-30 08:55:42

End at: 2017-11-30 08:56:12

Below is generated by plot.py at 2017-11-30 09:58:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 117.653 ms

Loss rate: 0.00%

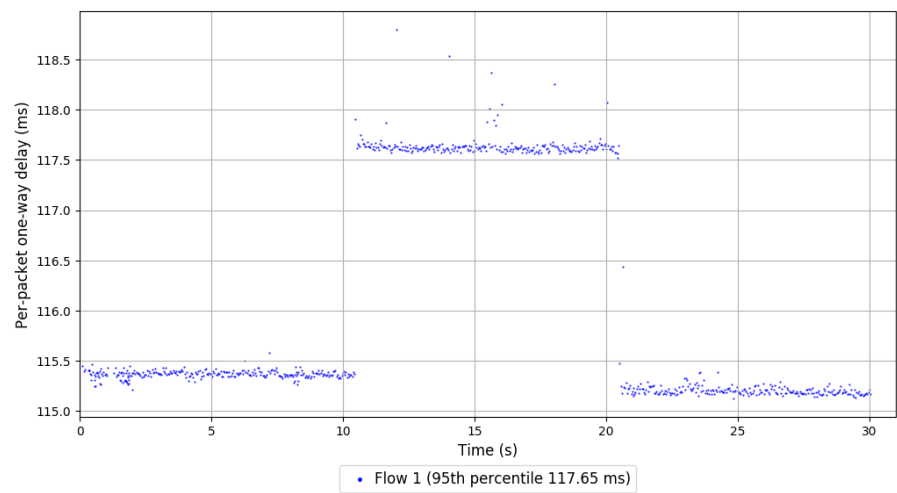
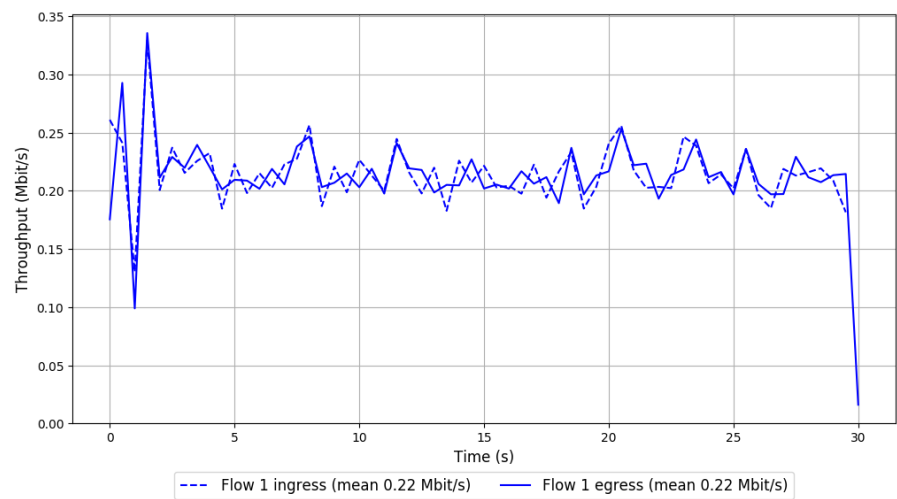
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 117.653 ms

Loss rate: 0.00%

Run 10: Report of SReAM — Data Link

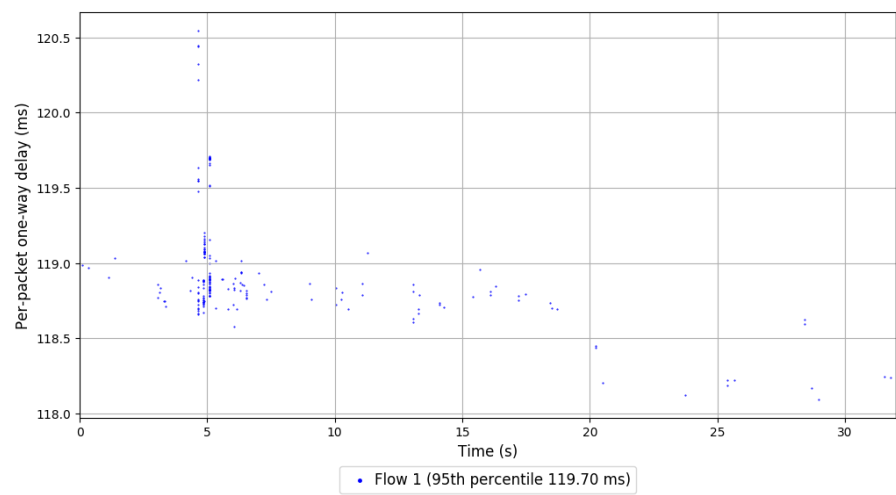
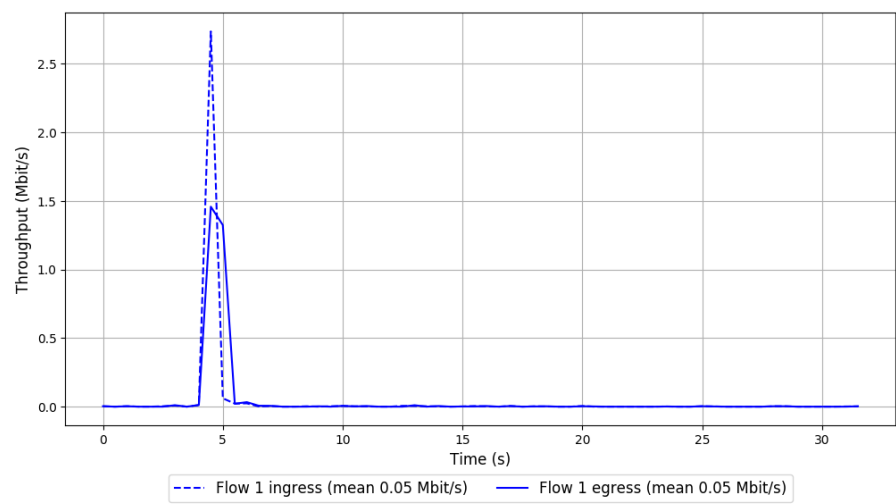


```
Run 1: Statistics of WebRTC media

Start at: 2017-11-30 07:12:05
End at: 2017-11-30 07:12:35

# Below is generated by plot.py at 2017-11-30 09:58:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 119.698 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 119.698 ms
Loss rate: 0.00%
```


Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2017-11-30 07:23:16

End at: 2017-11-30 07:23:46

Below is generated by plot.py at 2017-11-30 09:58:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.14 Mbit/s

95th percentile per-packet one-way delay: 115.796 ms

Loss rate: 0.00%

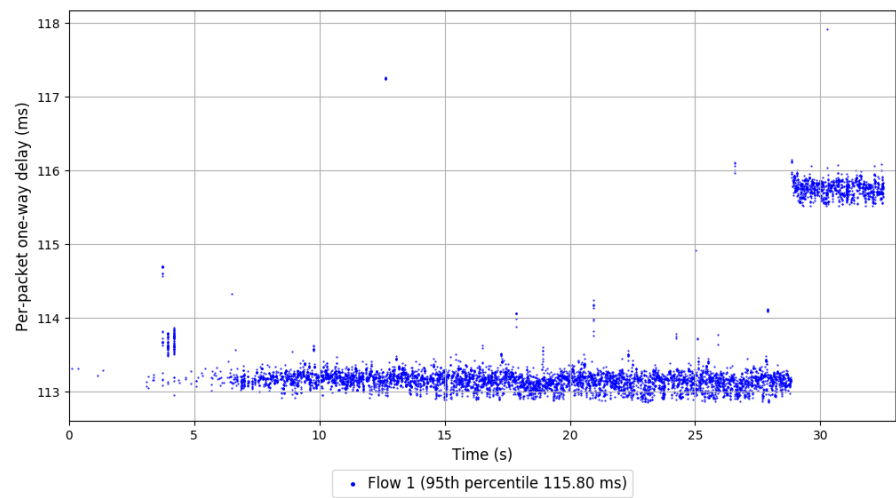
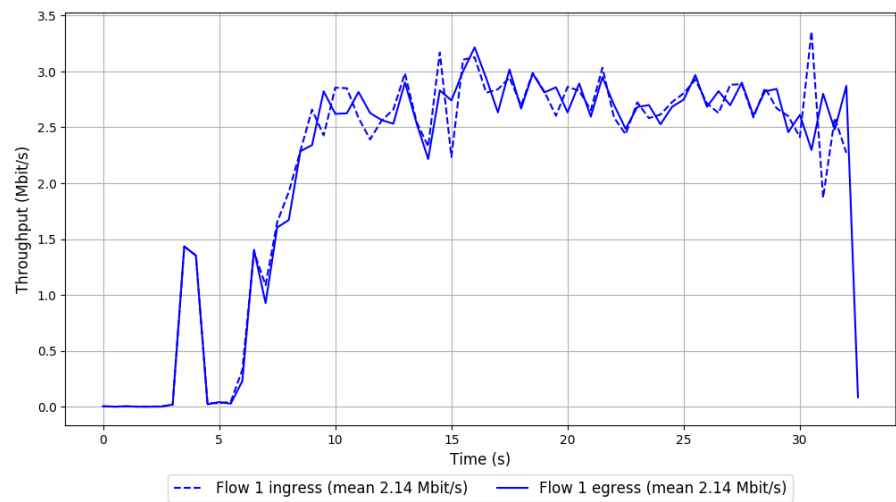
-- Flow 1:

Average throughput: 2.14 Mbit/s

95th percentile per-packet one-way delay: 115.796 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2017-11-30 07:34:23

End at: 2017-11-30 07:34:53

Below is generated by plot.py at 2017-11-30 09:58:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 114.654 ms

Loss rate: 0.00%

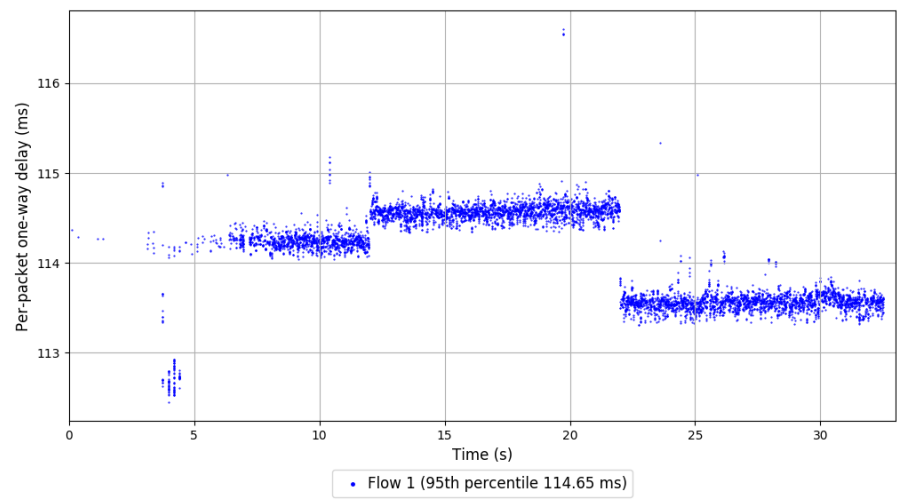
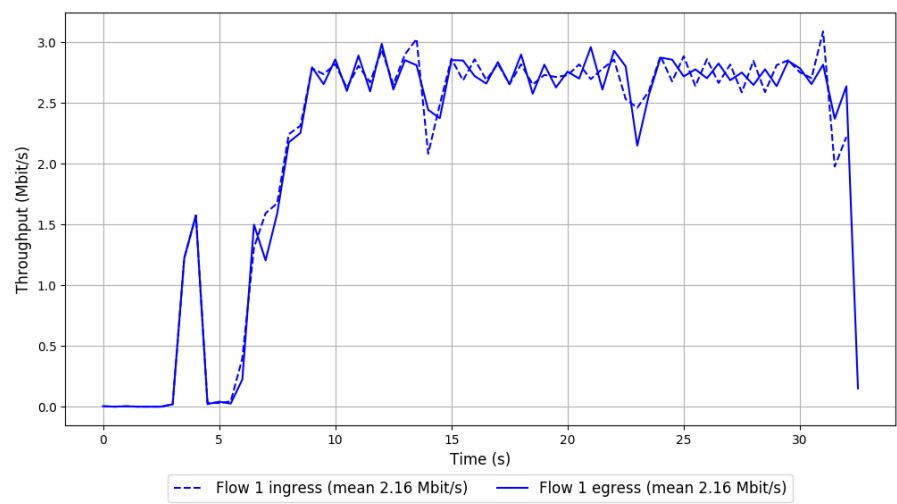
-- Flow 1:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 114.654 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2017-11-30 07:45:26

End at: 2017-11-30 07:45:57

Below is generated by plot.py at 2017-11-30 09:58:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 118.447 ms

Loss rate: 0.00%

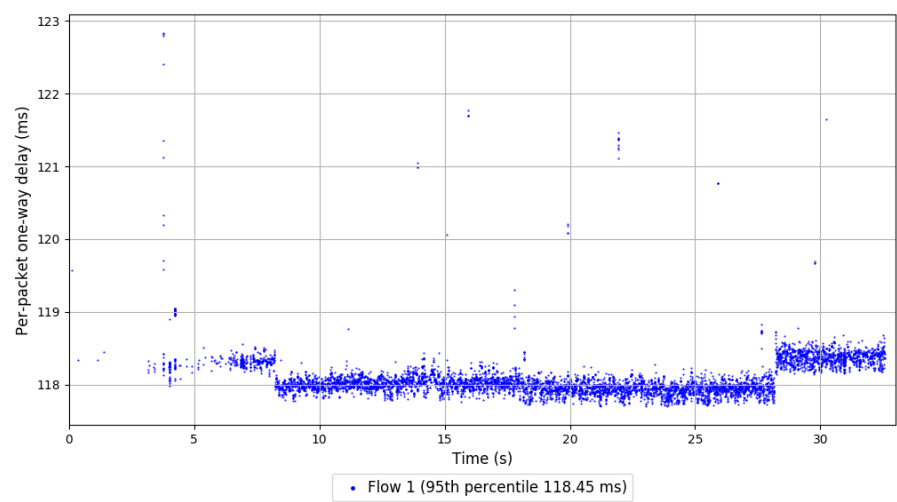
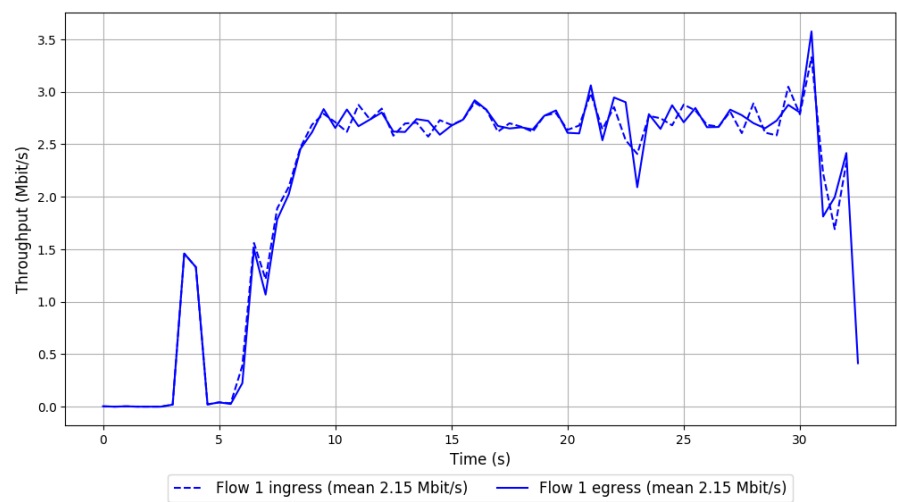
-- Flow 1:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 118.447 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2017-11-30 07:56:22

End at: 2017-11-30 07:56:53

Below is generated by plot.py at 2017-11-30 09:58:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 118.760 ms

Loss rate: 0.00%

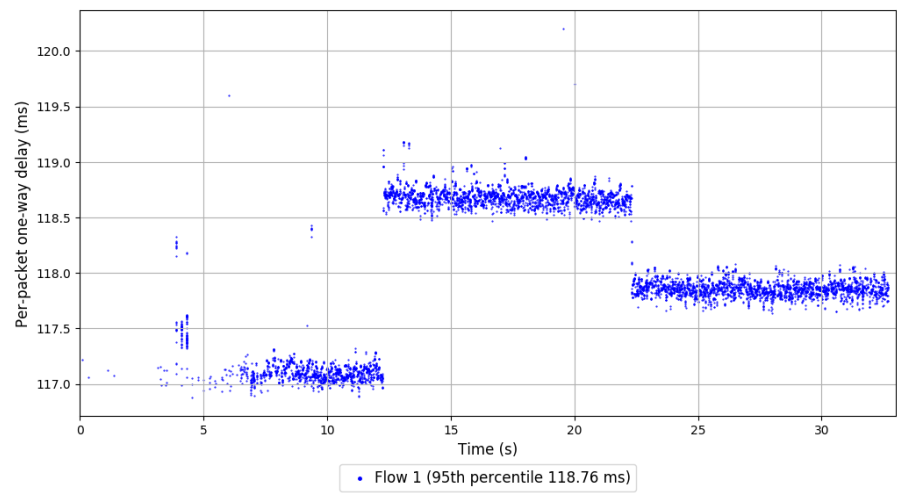
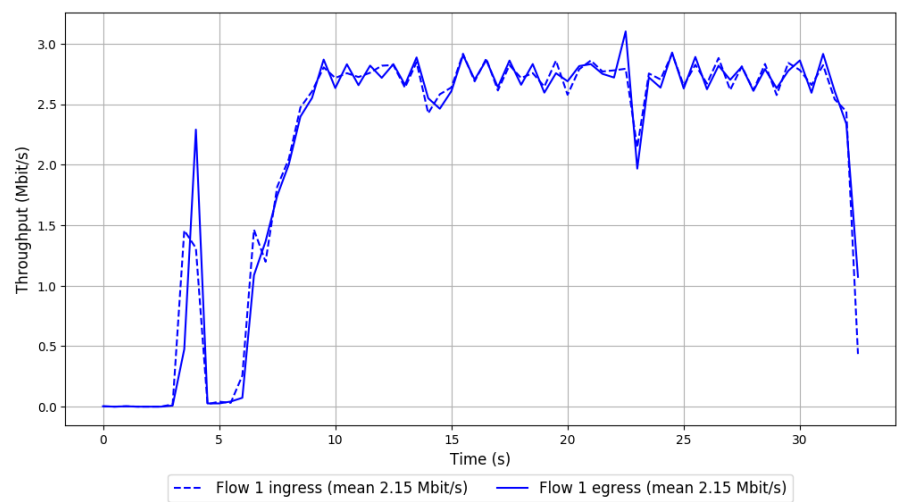
-- Flow 1:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 118.760 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2017-11-30 08:07:14

End at: 2017-11-30 08:07:44

Below is generated by plot.py at 2017-11-30 09:58:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.31 Mbit/s

95th percentile per-packet one-way delay: 117.675 ms

Loss rate: 0.00%

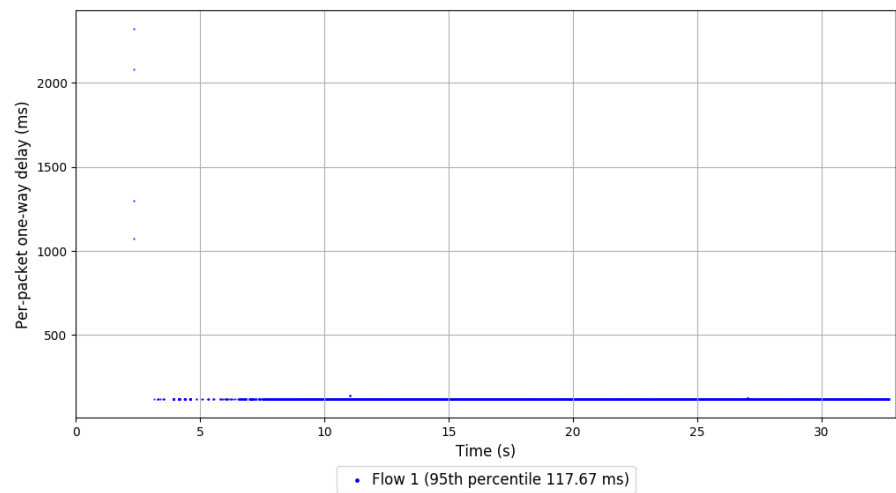
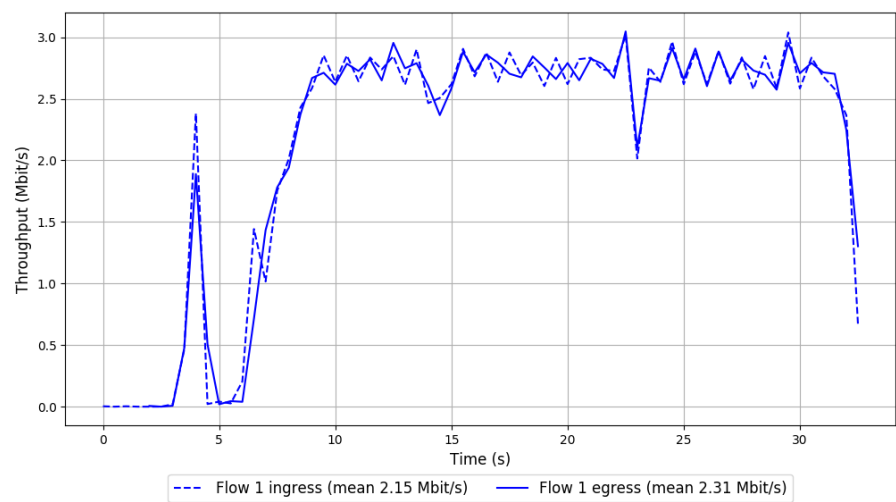
-- Flow 1:

Average throughput: 2.31 Mbit/s

95th percentile per-packet one-way delay: 117.675 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2017-11-30 08:18:28

End at: 2017-11-30 08:18:58

Below is generated by plot.py at 2017-11-30 09:58:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 119.509 ms

Loss rate: 0.00%

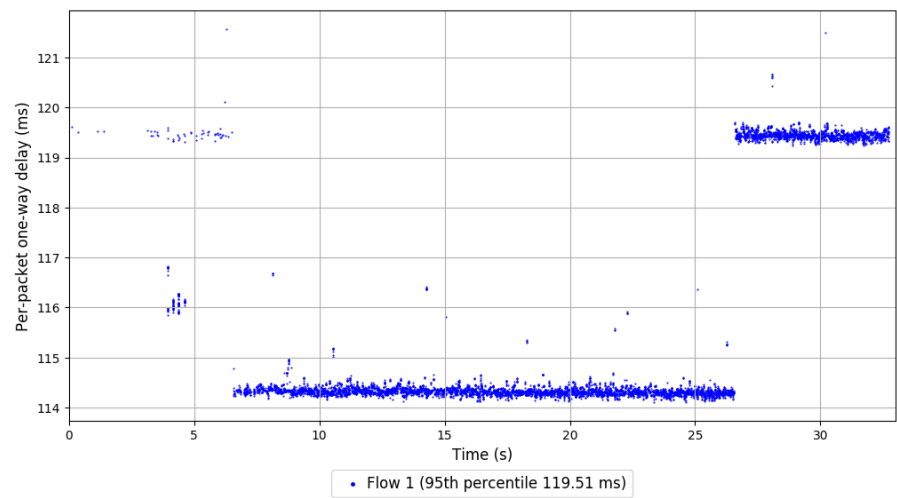
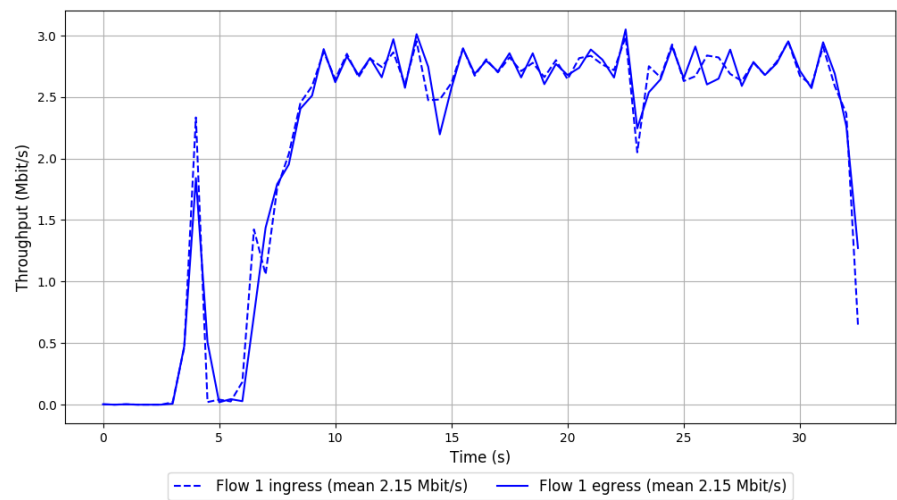
-- Flow 1:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 119.509 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2017-11-30 08:30:01

End at: 2017-11-30 08:30:31

Below is generated by plot.py at 2017-11-30 09:58:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 117.919 ms

Loss rate: 0.00%

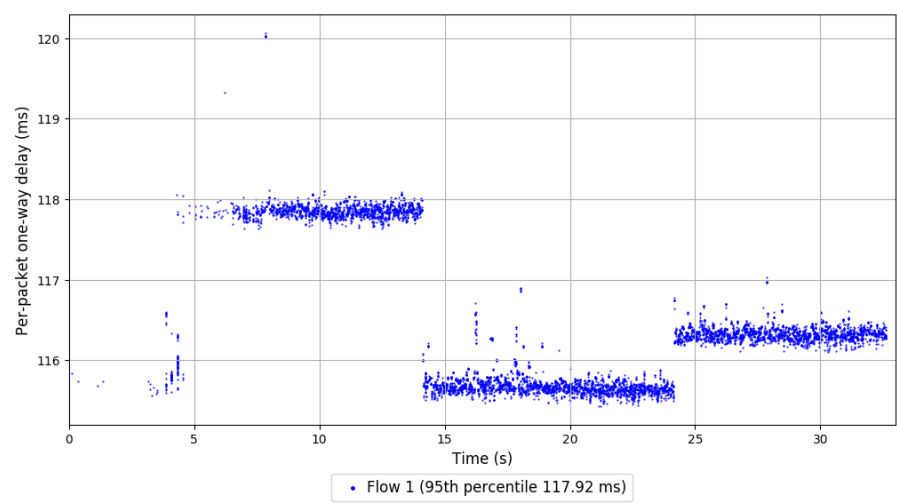
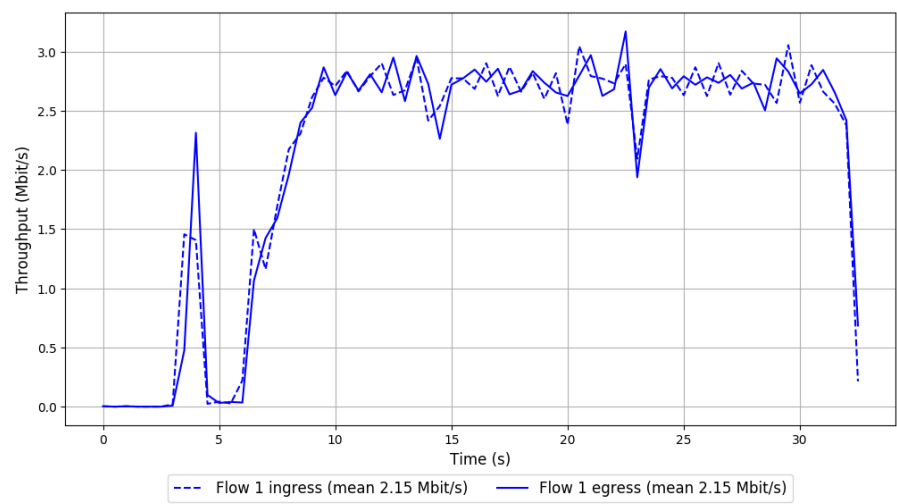
-- Flow 1:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 117.919 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2017-11-30 08:40:56

End at: 2017-11-30 08:41:26

Below is generated by plot.py at 2017-11-30 09:58:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.14 Mbit/s

95th percentile per-packet one-way delay: 115.207 ms

Loss rate: 0.00%

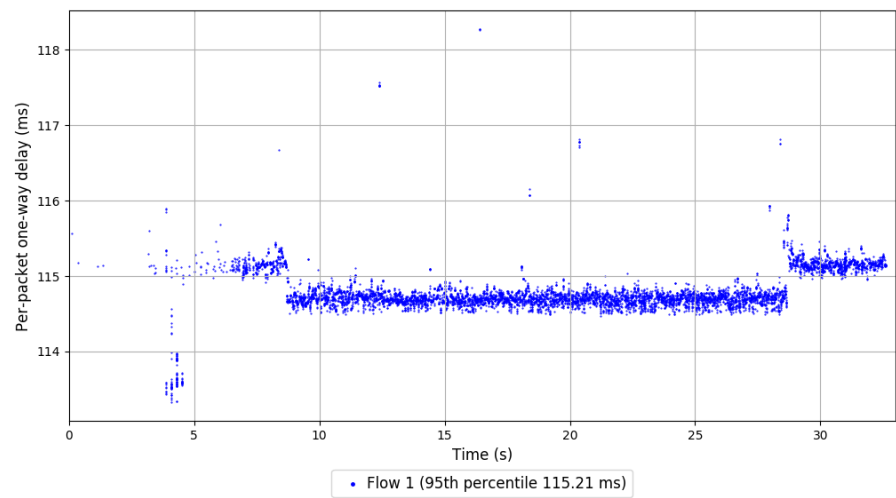
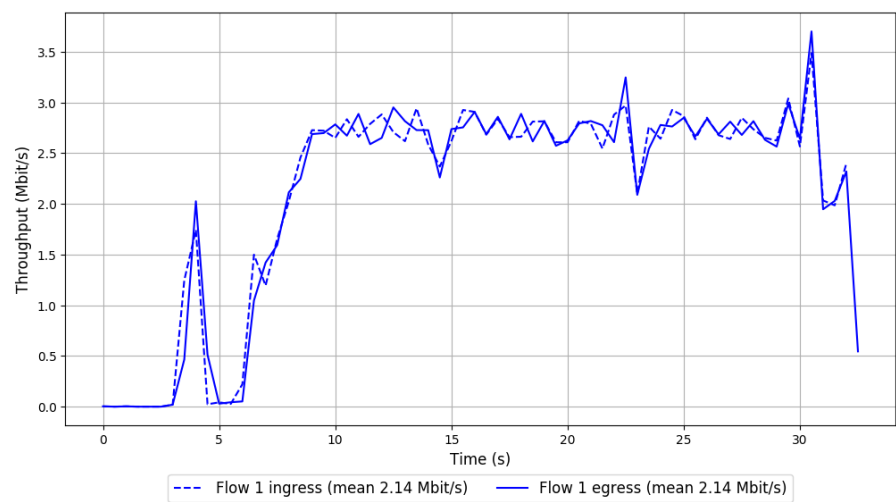
-- Flow 1:

Average throughput: 2.14 Mbit/s

95th percentile per-packet one-way delay: 115.207 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2017-11-30 08:51:54

End at: 2017-11-30 08:52:24

Below is generated by plot.py at 2017-11-30 09:58:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.13 Mbit/s

95th percentile per-packet one-way delay: 117.835 ms

Loss rate: 0.05%

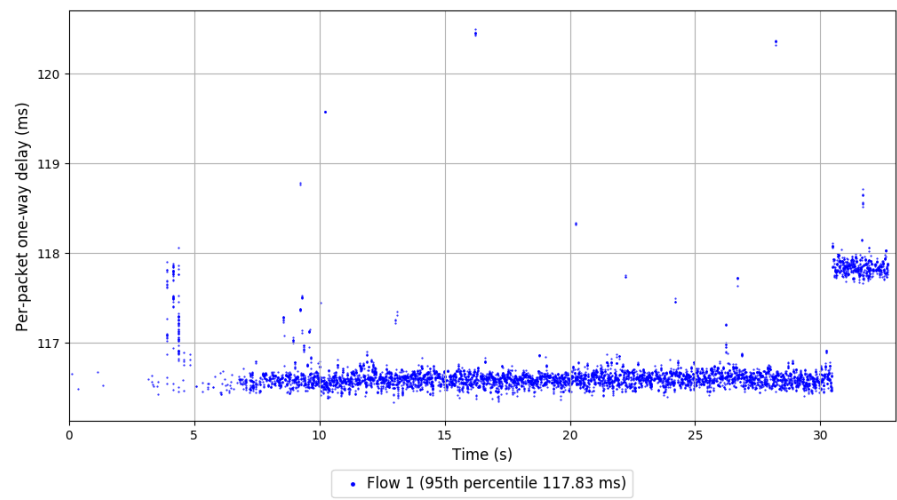
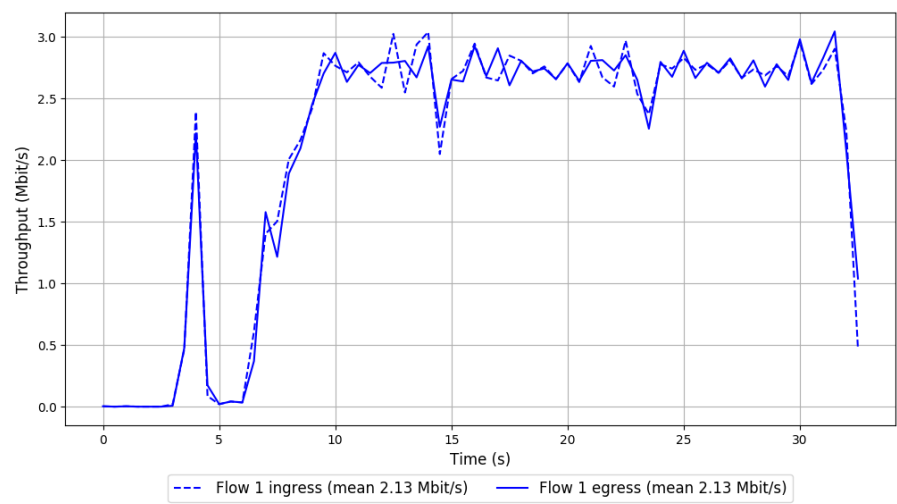
-- Flow 1:

Average throughput: 2.13 Mbit/s

95th percentile per-packet one-way delay: 117.835 ms

Loss rate: 0.05%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2017-11-30 07:12:46

End at: 2017-11-30 07:13:16

Below is generated by plot.py at 2017-11-30 09:58:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.43 Mbit/s

95th percentile per-packet one-way delay: 119.149 ms

Loss rate: 0.00%

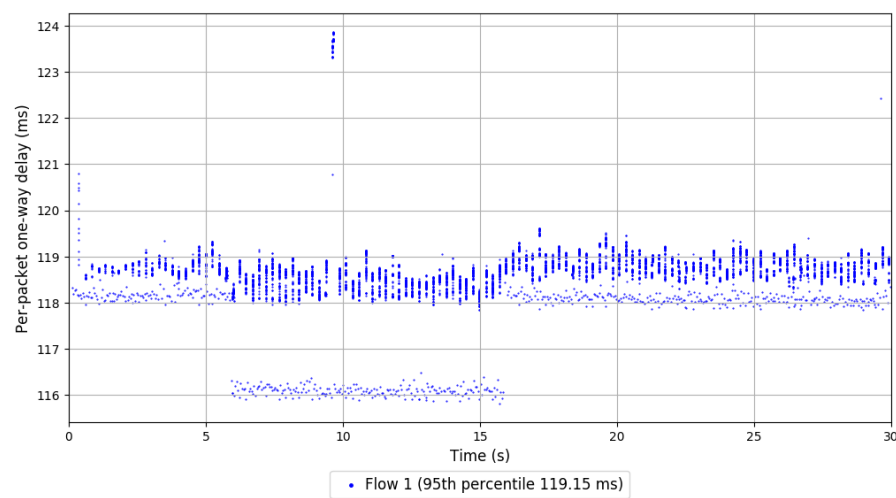
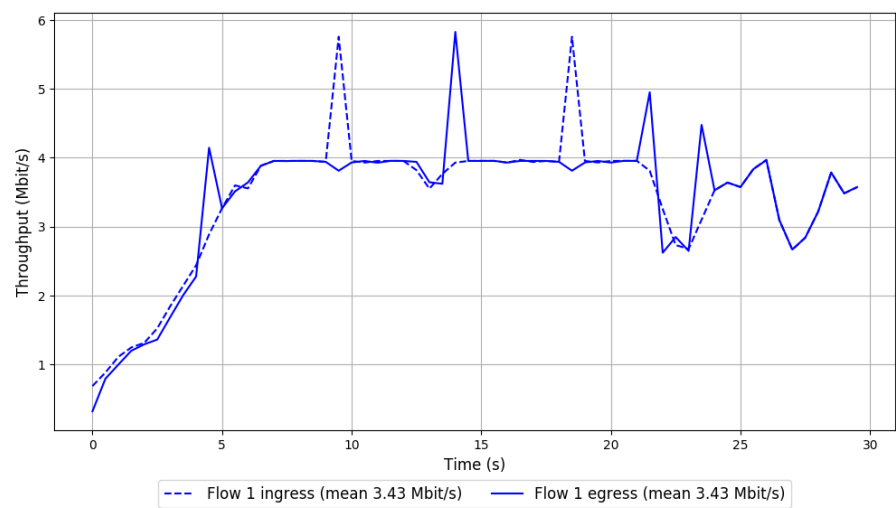
-- Flow 1:

Average throughput: 3.43 Mbit/s

95th percentile per-packet one-way delay: 119.149 ms

Loss rate: 0.00%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2017-11-30 07:23:57

End at: 2017-11-30 07:24:27

Below is generated by plot.py at 2017-11-30 09:58:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.30 Mbit/s

95th percentile per-packet one-way delay: 116.359 ms

Loss rate: 1.20%

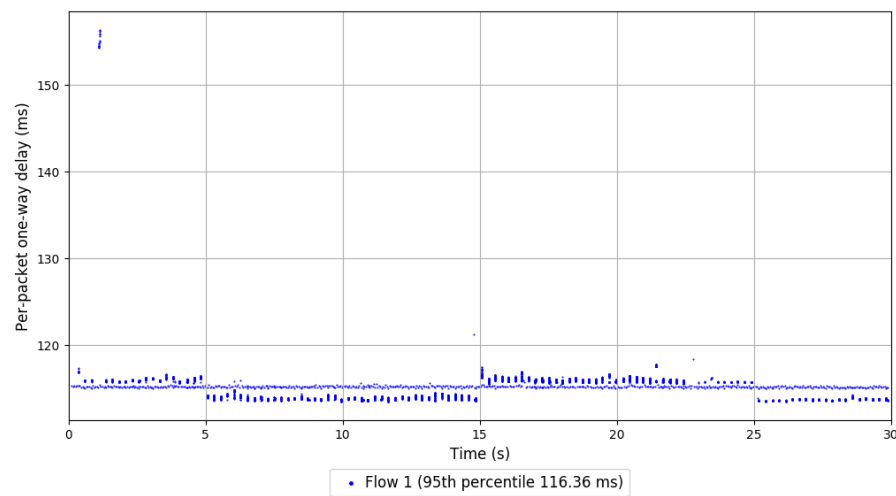
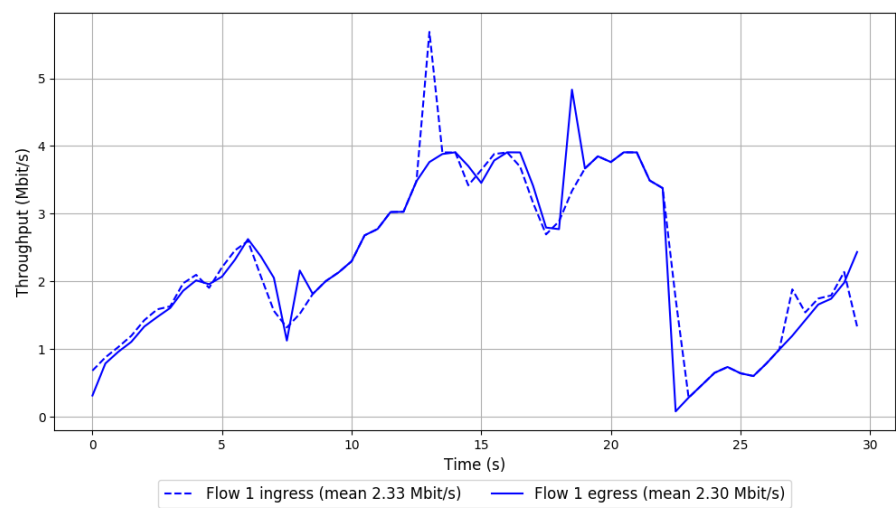
-- Flow 1:

Average throughput: 2.30 Mbit/s

95th percentile per-packet one-way delay: 116.359 ms

Loss rate: 1.20%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2017-11-30 07:35:04

End at: 2017-11-30 07:35:34

Below is generated by plot.py at 2017-11-30 09:58:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.13 Mbit/s

95th percentile per-packet one-way delay: 117.256 ms

Loss rate: 1.36%

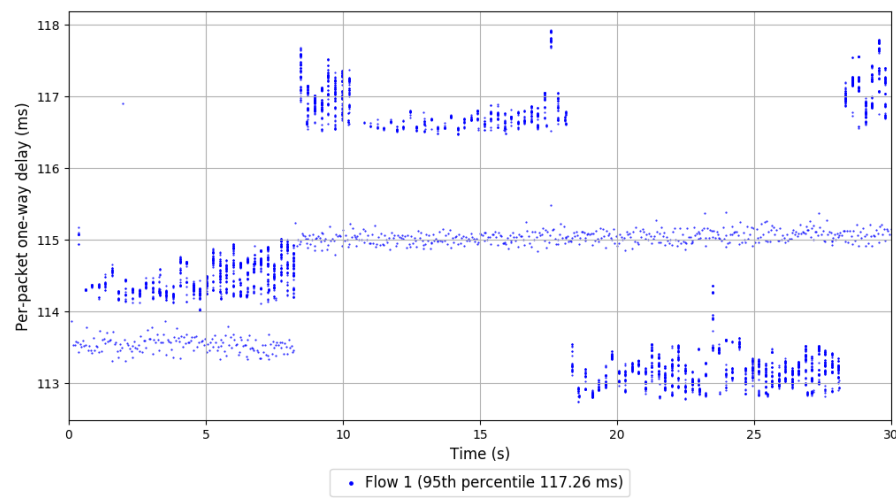
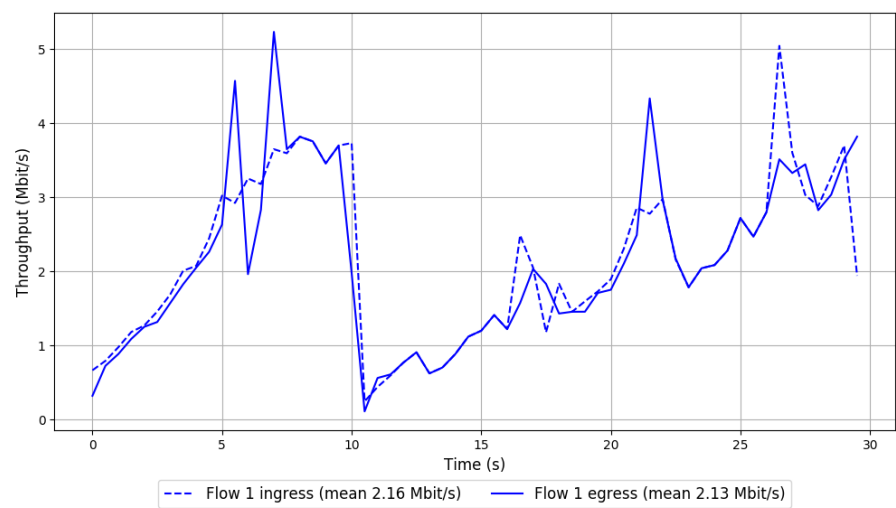
-- Flow 1:

Average throughput: 2.13 Mbit/s

95th percentile per-packet one-way delay: 117.256 ms

Loss rate: 1.36%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2017-11-30 07:46:08

End at: 2017-11-30 07:46:38

Below is generated by plot.py at 2017-11-30 09:58:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.50 Mbit/s

95th percentile per-packet one-way delay: 118.801 ms

Loss rate: 0.05%

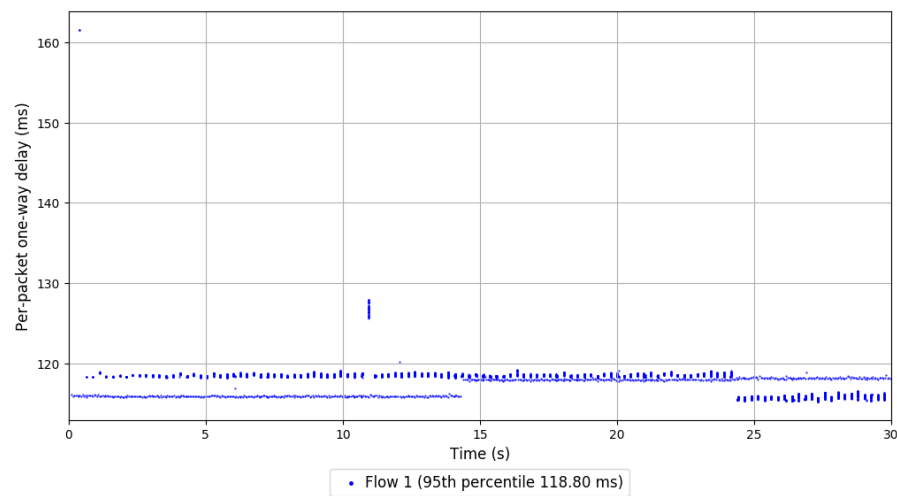
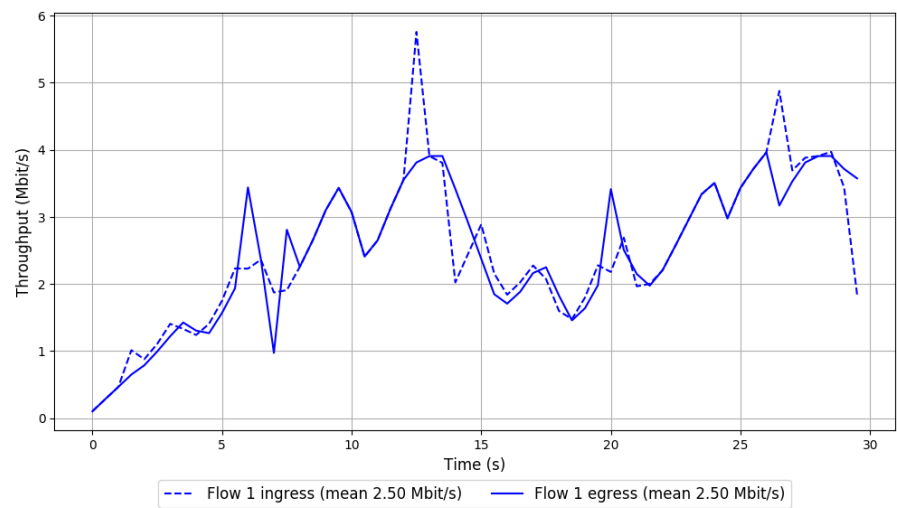
-- Flow 1:

Average throughput: 2.50 Mbit/s

95th percentile per-packet one-way delay: 118.801 ms

Loss rate: 0.05%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2017-11-30 07:57:03

End at: 2017-11-30 07:57:34

Below is generated by plot.py at 2017-11-30 09:58:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 119.167 ms

Loss rate: 0.46%

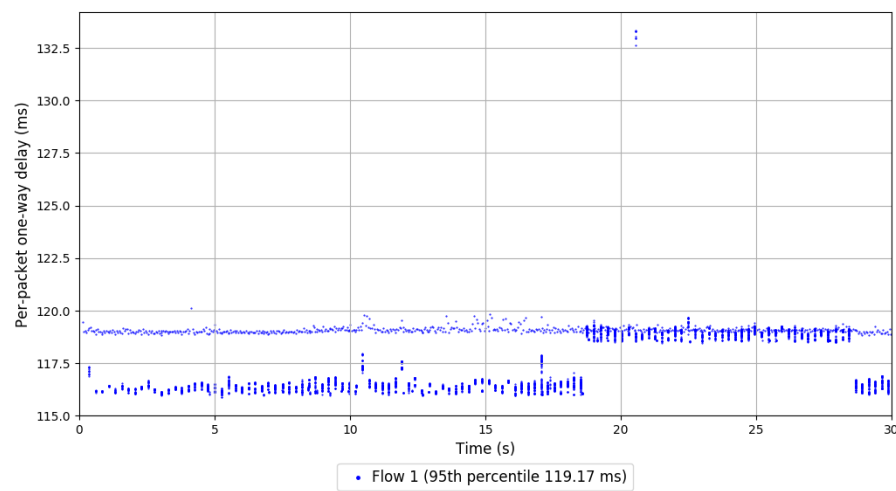
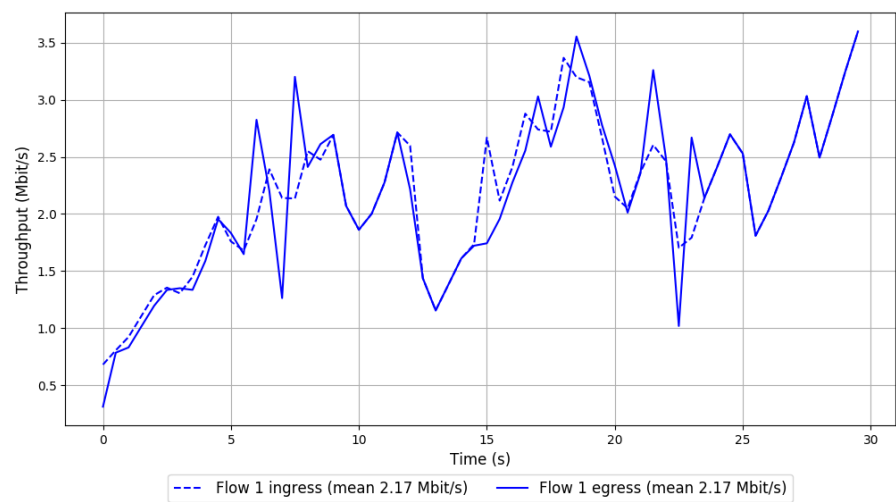
-- Flow 1:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 119.167 ms

Loss rate: 0.46%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2017-11-30 08:07:55

End at: 2017-11-30 08:08:25

Below is generated by plot.py at 2017-11-30 09:58:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.72 Mbit/s

95th percentile per-packet one-way delay: 118.023 ms

Loss rate: 0.00%

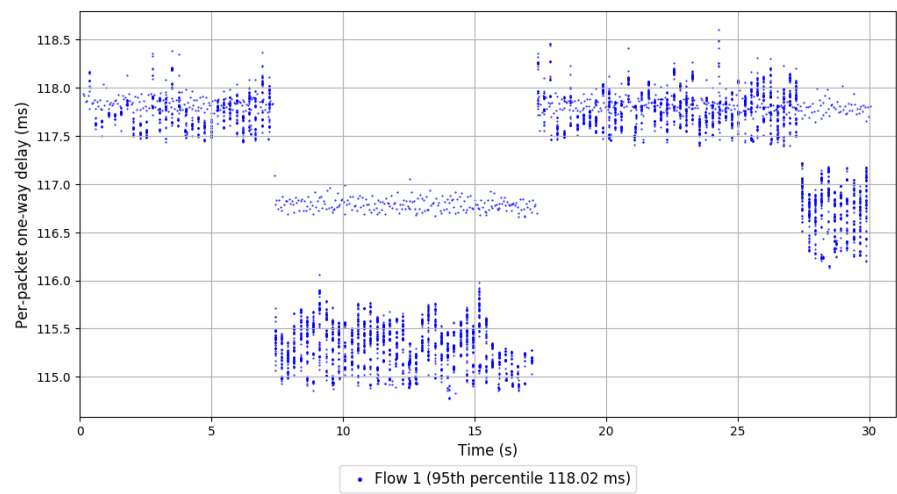
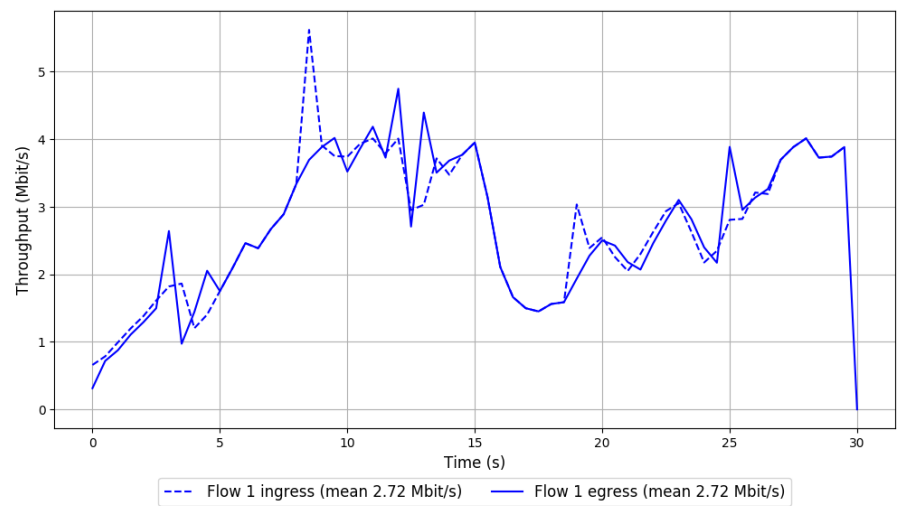
-- Flow 1:

Average throughput: 2.72 Mbit/s

95th percentile per-packet one-way delay: 118.023 ms

Loss rate: 0.00%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2017-11-30 08:19:09

End at: 2017-11-30 08:19:39

Below is generated by plot.py at 2017-11-30 09:58:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.37 Mbit/s

95th percentile per-packet one-way delay: 117.394 ms

Loss rate: 0.10%

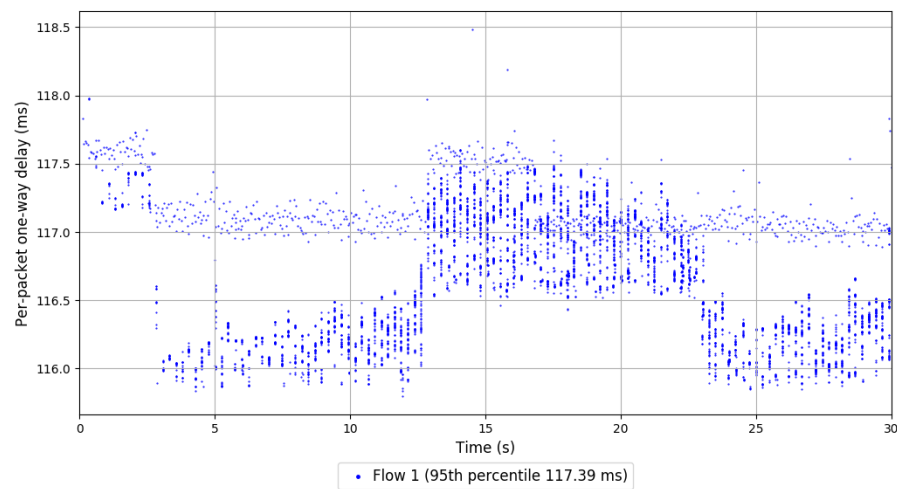
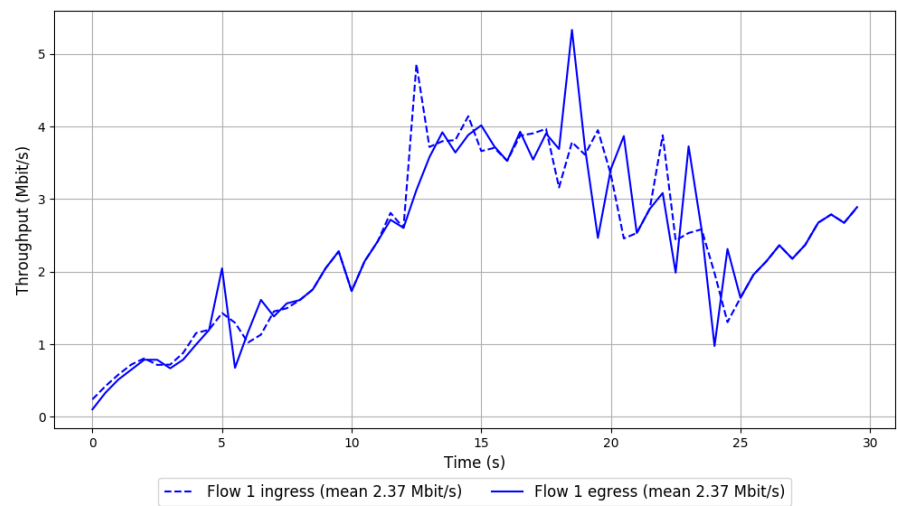
-- Flow 1:

Average throughput: 2.37 Mbit/s

95th percentile per-packet one-way delay: 117.394 ms

Loss rate: 0.10%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2017-11-30 08:30:42

End at: 2017-11-30 08:31:12

Below is generated by plot.py at 2017-11-30 09:58:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 116.525 ms

Loss rate: 1.40%

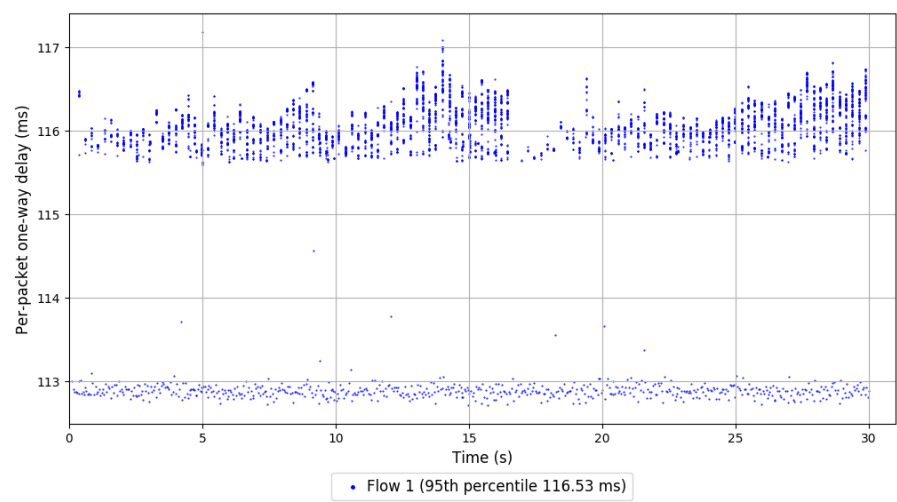
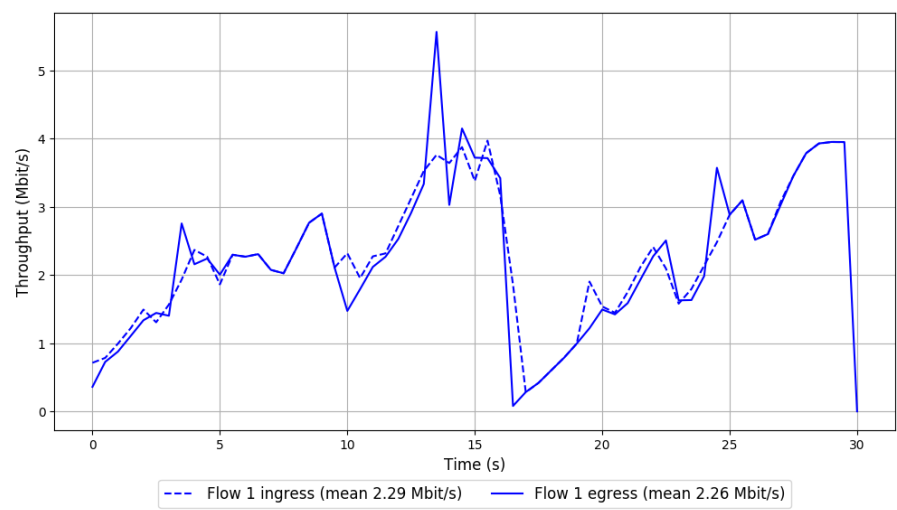
-- Flow 1:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 116.525 ms

Loss rate: 1.40%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2017-11-30 08:41:37

End at: 2017-11-30 08:42:07

Below is generated by plot.py at 2017-11-30 09:58:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.87 Mbit/s

95th percentile per-packet one-way delay: 116.820 ms

Loss rate: 0.36%

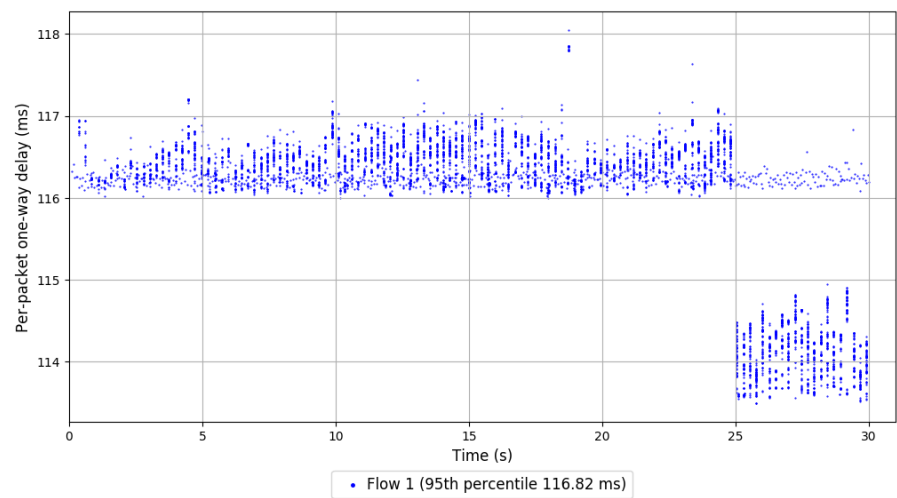
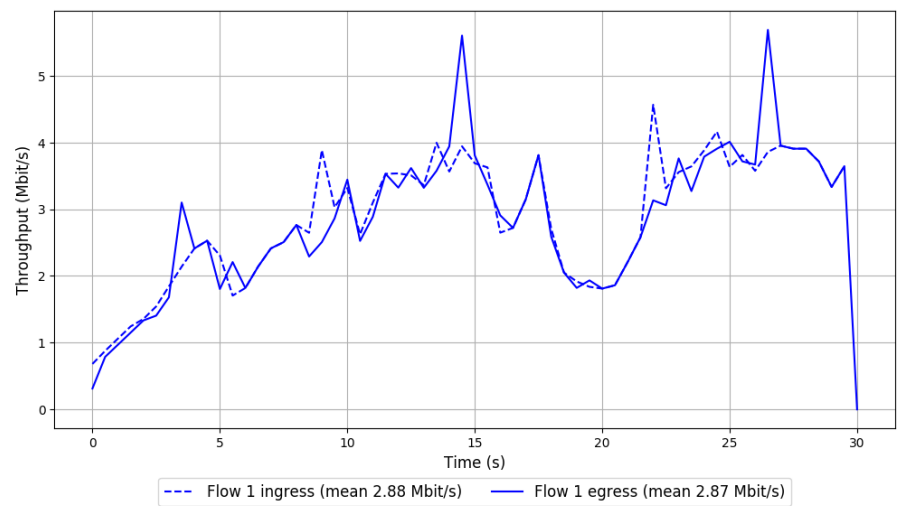
-- Flow 1:

Average throughput: 2.87 Mbit/s

95th percentile per-packet one-way delay: 116.820 ms

Loss rate: 0.36%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2017-11-30 08:52:35

End at: 2017-11-30 08:53:05

Below is generated by plot.py at 2017-11-30 09:58:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 117.902 ms

Loss rate: 0.00%

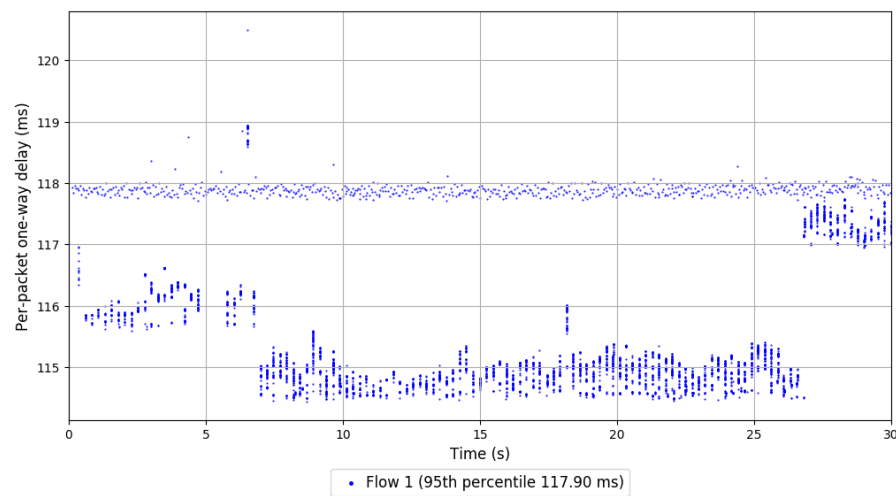
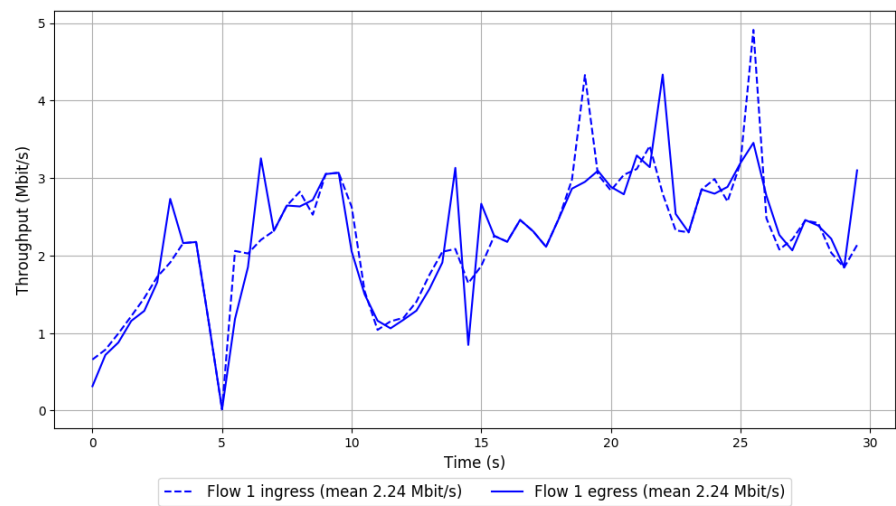
-- Flow 1:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 117.902 ms

Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

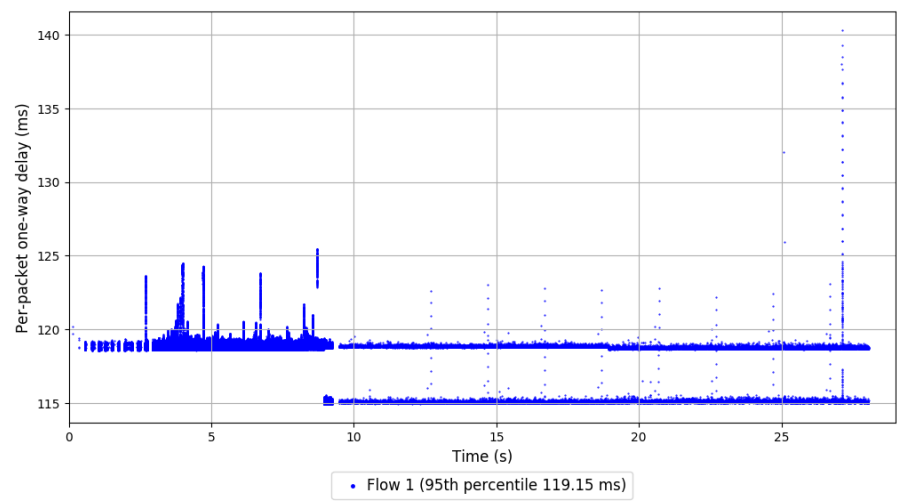
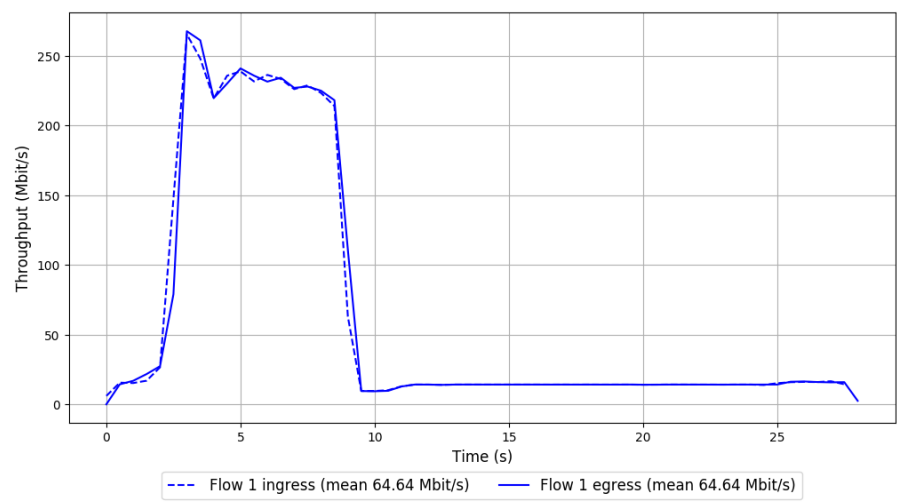


```
Run 1: Statistics of TaoVA-100x

Start at: 2017-11-30 07:10:31
End at: 2017-11-30 07:11:01

# Below is generated by plot.py at 2017-11-30 09:58:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 64.64 Mbit/s
95th percentile per-packet one-way delay: 119.147 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 64.64 Mbit/s
95th percentile per-packet one-way delay: 119.147 ms
Loss rate: 0.00%
```


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

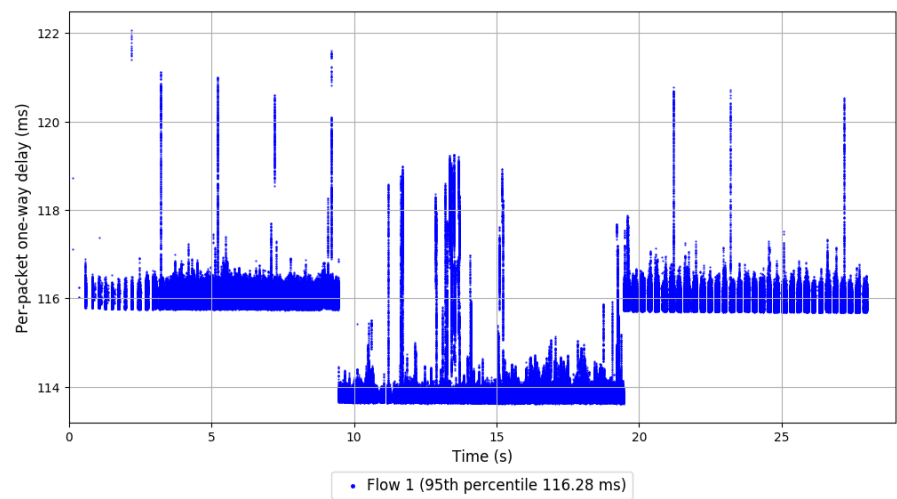
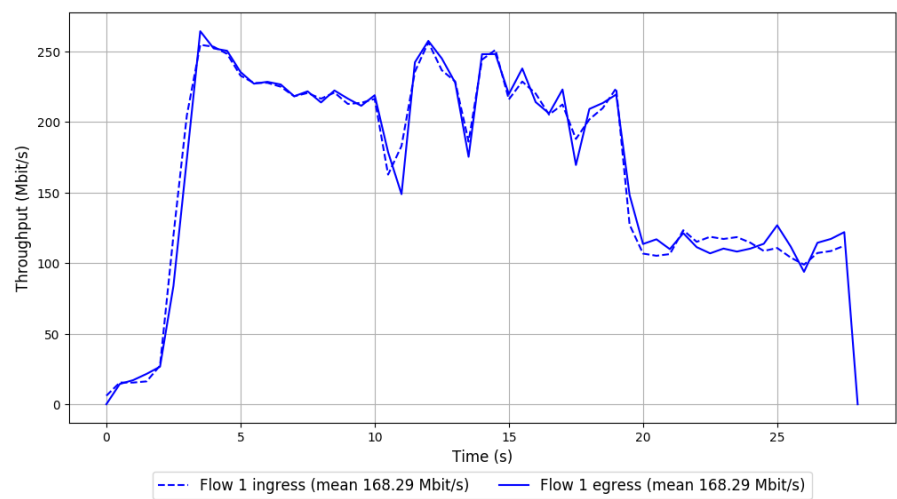


```
Run 2: Statistics of TaoVA-100x

Start at: 2017-11-30 07:21:31
End at: 2017-11-30 07:22:01

# Below is generated by plot.py at 2017-11-30 09:58:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 168.29 Mbit/s
95th percentile per-packet one-way delay: 116.284 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 168.29 Mbit/s
95th percentile per-packet one-way delay: 116.284 ms
Loss rate: 0.01%
```

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



Run 3: Statistics of TaoVA-100x

Start at: 2017-11-30 07:32:46

End at: 2017-11-30 07:33:16

Below is generated by plot.py at 2017-11-30 09:58:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 143.58 Mbit/s

95th percentile per-packet one-way delay: 115.364 ms

Loss rate: 0.00%

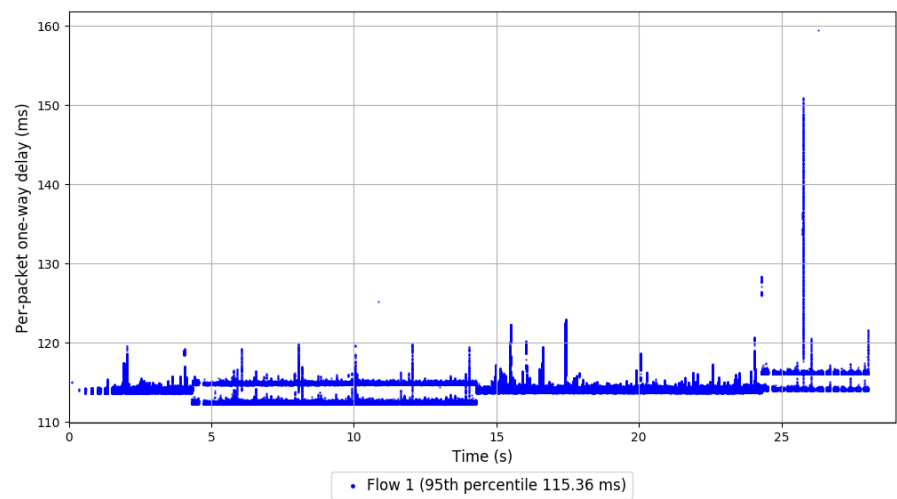
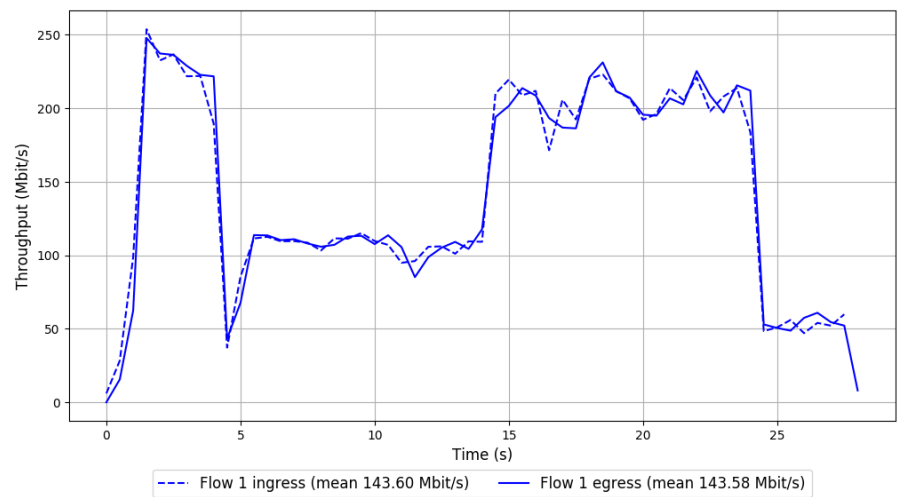
-- Flow 1:

Average throughput: 143.58 Mbit/s

95th percentile per-packet one-way delay: 115.364 ms

Loss rate: 0.00%

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

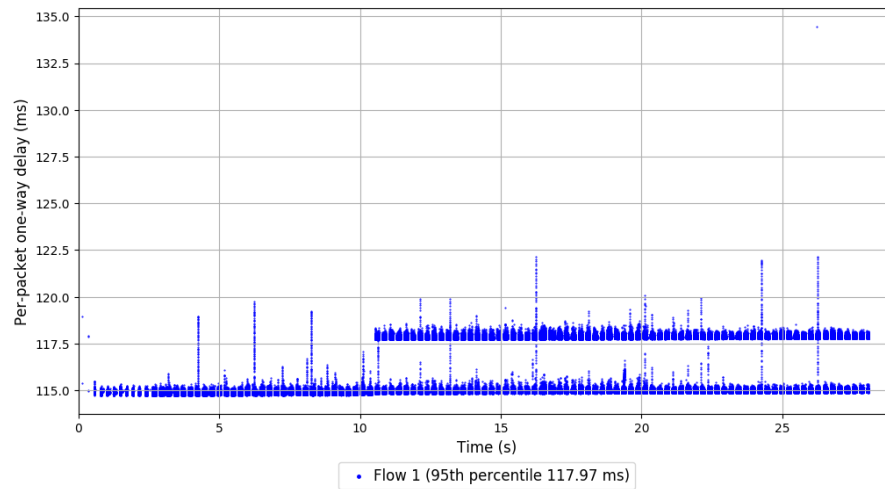
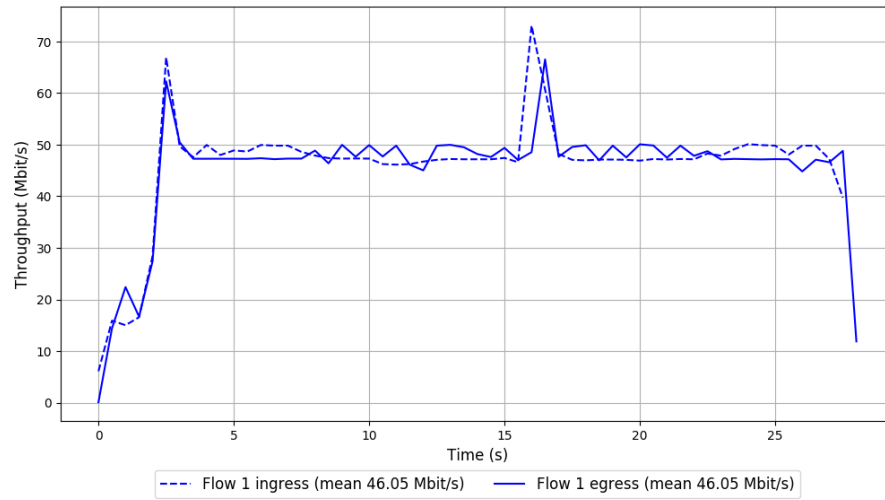


```
Run 4: Statistics of TaoVA-100x

Start at: 2017-11-30 07:44:00
End at: 2017-11-30 07:44:30

# Below is generated by plot.py at 2017-11-30 09:58:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 46.05 Mbit/s
95th percentile per-packet one-way delay: 117.971 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 46.05 Mbit/s
95th percentile per-packet one-way delay: 117.971 ms
Loss rate: 0.01%
```

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



Run 5: Statistics of TaoVA-100x

Start at: 2017-11-30 07:54:55

End at: 2017-11-30 07:55:25

Below is generated by plot.py at 2017-11-30 09:58:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.97 Mbit/s

95th percentile per-packet one-way delay: 119.037 ms

Loss rate: 0.00%

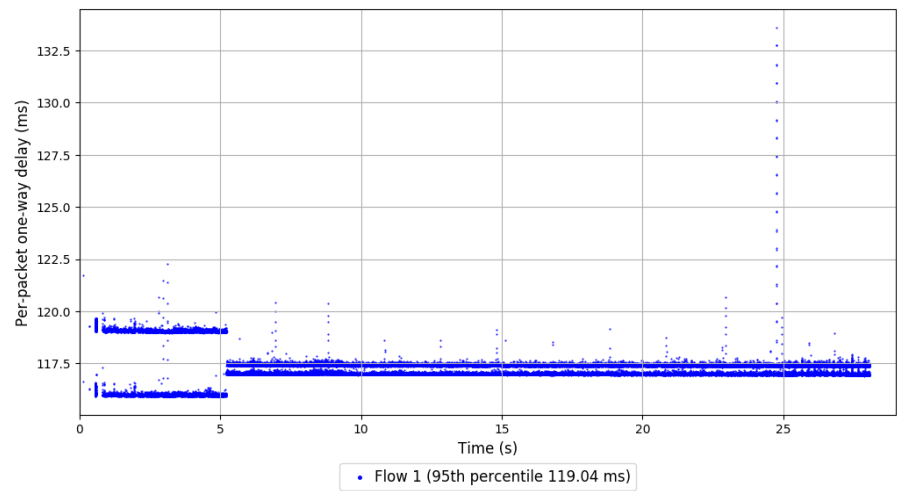
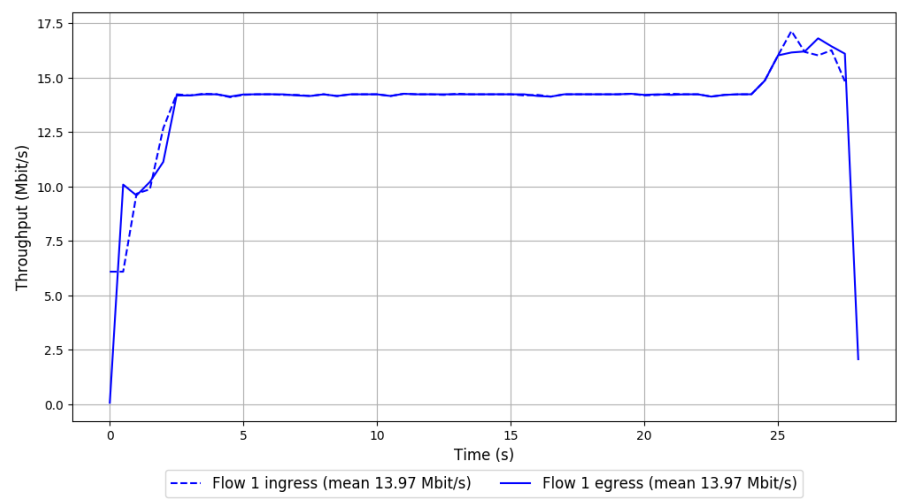
-- Flow 1:

Average throughput: 13.97 Mbit/s

95th percentile per-packet one-way delay: 119.037 ms

Loss rate: 0.00%

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



Run 6: Statistics of TaoVA-100x

Start at: 2017-11-30 08:05:51

End at: 2017-11-30 08:06:21

Below is generated by plot.py at 2017-11-30 09:58:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.84 Mbit/s

95th percentile per-packet one-way delay: 117.560 ms

Loss rate: 0.02%

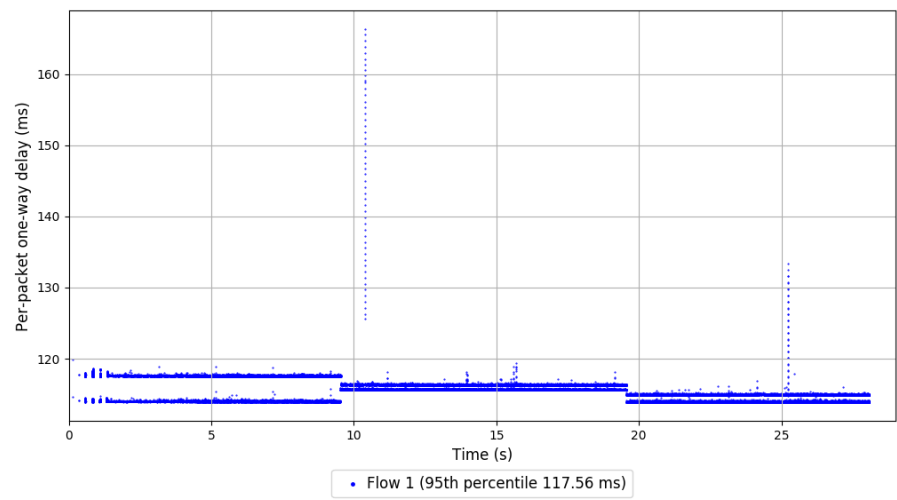
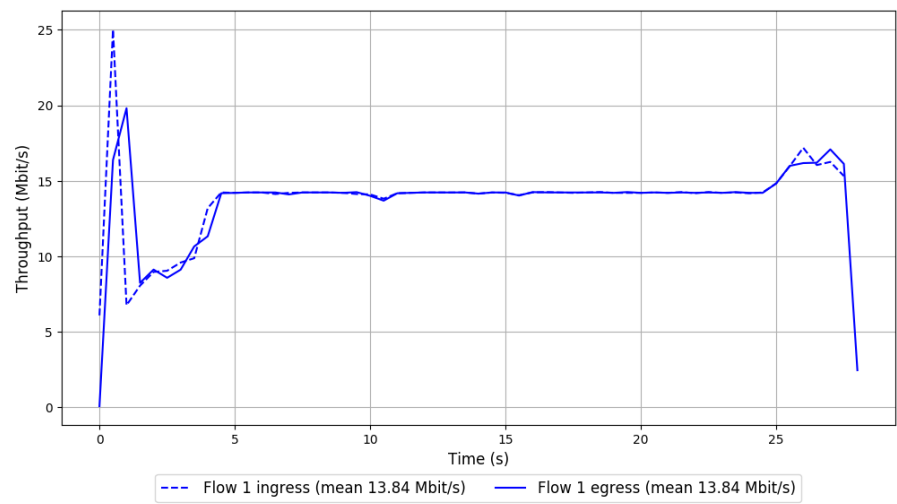
-- Flow 1:

Average throughput: 13.84 Mbit/s

95th percentile per-packet one-way delay: 117.560 ms

Loss rate: 0.02%

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



Run 7: Statistics of TaoVA-100x

Start at: 2017-11-30 08:16:44

End at: 2017-11-30 08:17:14

Below is generated by plot.py at 2017-11-30 09:58:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 196.82 Mbit/s

95th percentile per-packet one-way delay: 117.431 ms

Loss rate: 0.00%

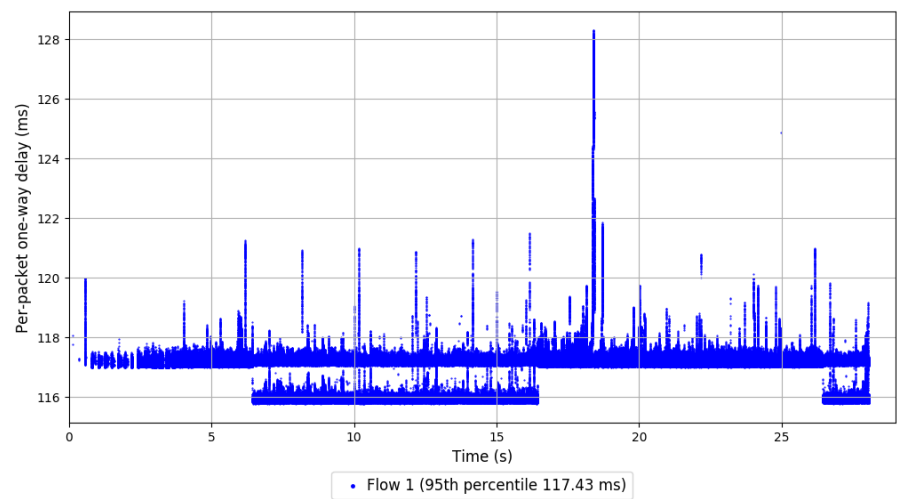
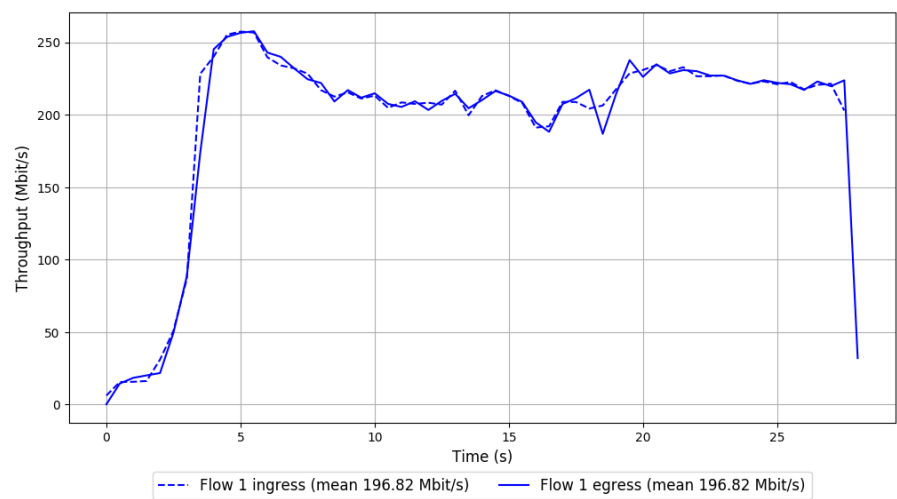
-- Flow 1:

Average throughput: 196.82 Mbit/s

95th percentile per-packet one-way delay: 117.431 ms

Loss rate: 0.00%

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



Run 8: Statistics of TaoVA-100x

Start at: 2017-11-30 08:28:13

End at: 2017-11-30 08:28:43

Below is generated by plot.py at 2017-11-30 09:59:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 217.42 Mbit/s

95th percentile per-packet one-way delay: 116.485 ms

Loss rate: 0.00%

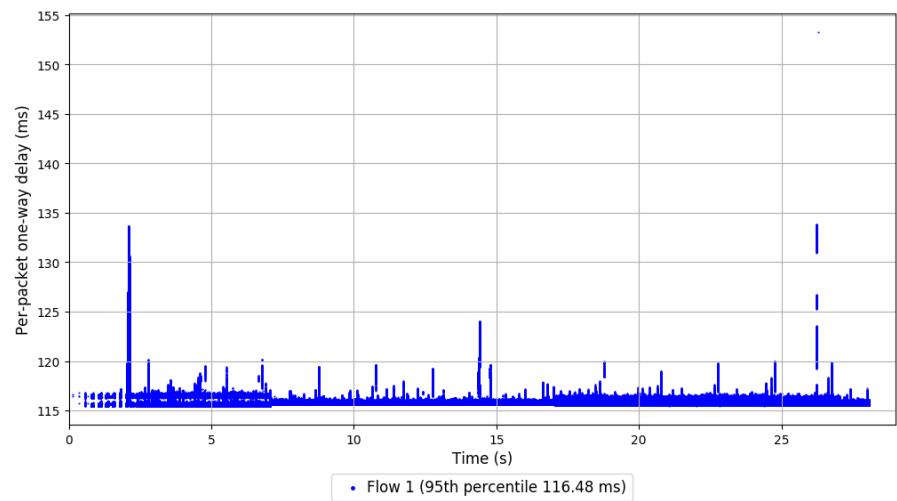
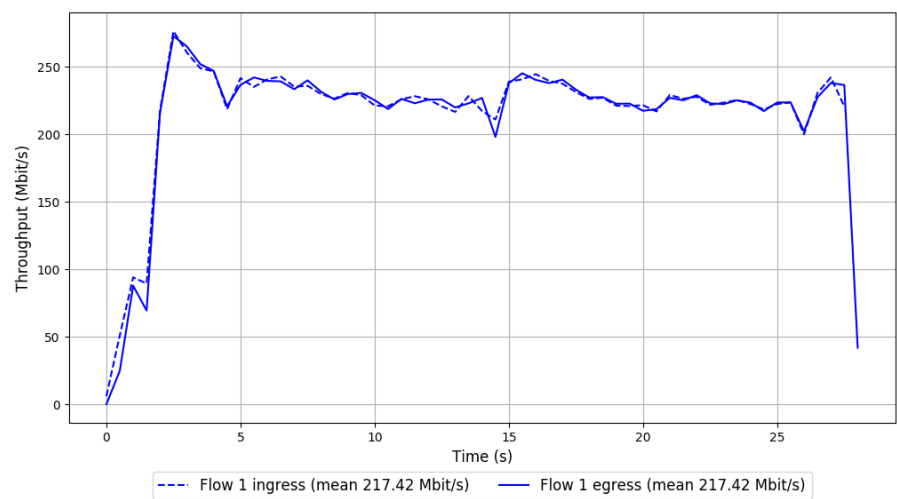
-- Flow 1:

Average throughput: 217.42 Mbit/s

95th percentile per-packet one-way delay: 116.485 ms

Loss rate: 0.00%

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



Run 9: Statistics of TaoVA-100x

Start at: 2017-11-30 08:39:28

End at: 2017-11-30 08:39:58

Below is generated by plot.py at 2017-11-30 09:59:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 14.67 Mbit/s

95th percentile per-packet one-way delay: 115.913 ms

Loss rate: 0.00%

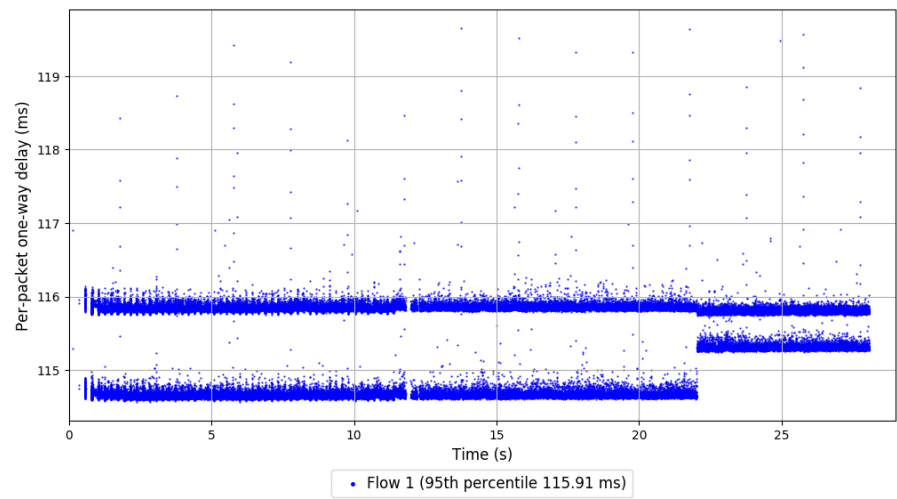
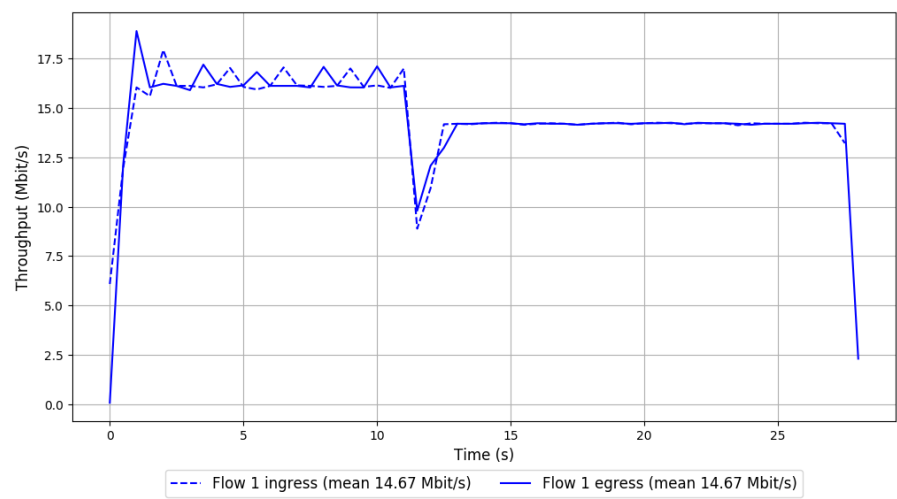
-- Flow 1:

Average throughput: 14.67 Mbit/s

95th percentile per-packet one-way delay: 115.913 ms

Loss rate: 0.00%

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

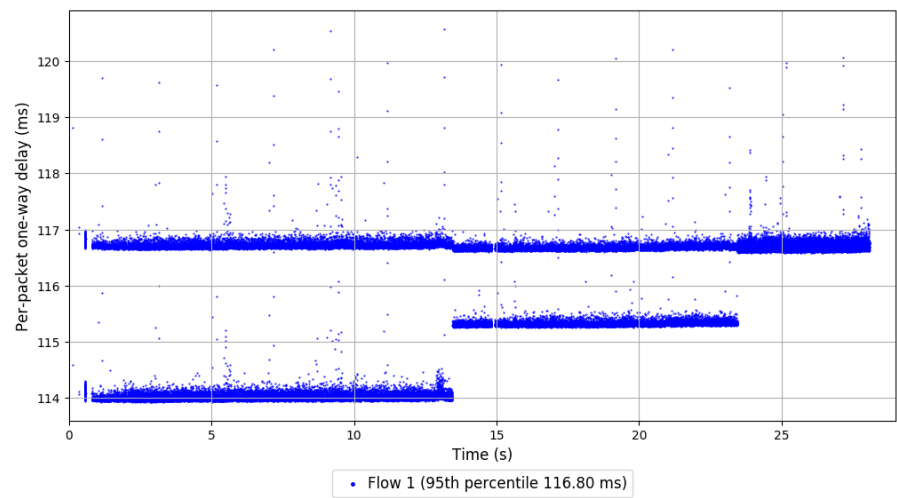
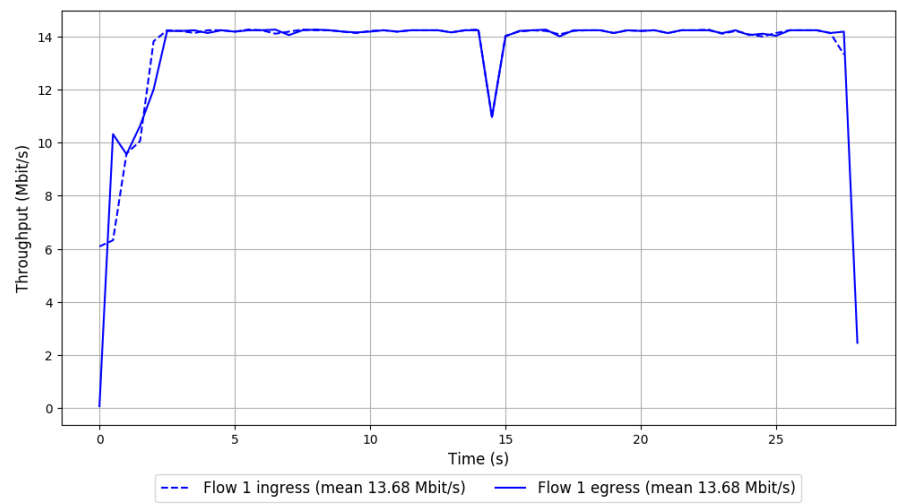


```
Run 10: Statistics of TaoVA-100x

Start at: 2017-11-30 08:50:27
End at: 2017-11-30 08:50:57

# Below is generated by plot.py at 2017-11-30 09:59:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 13.68 Mbit/s
95th percentile per-packet one-way delay: 116.797 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 13.68 Mbit/s
95th percentile per-packet one-way delay: 116.797 ms
Loss rate: 0.00%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2017-11-30 07:05:42

End at: 2017-11-30 07:06:12

Below is generated by plot.py at 2017-11-30 09:59:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 19.37 Mbit/s

95th percentile per-packet one-way delay: 119.097 ms

Loss rate: 1.13%

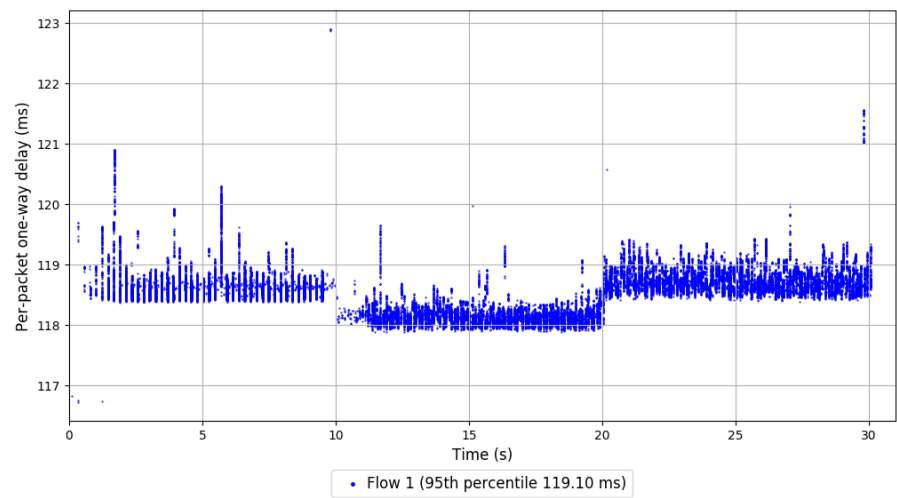
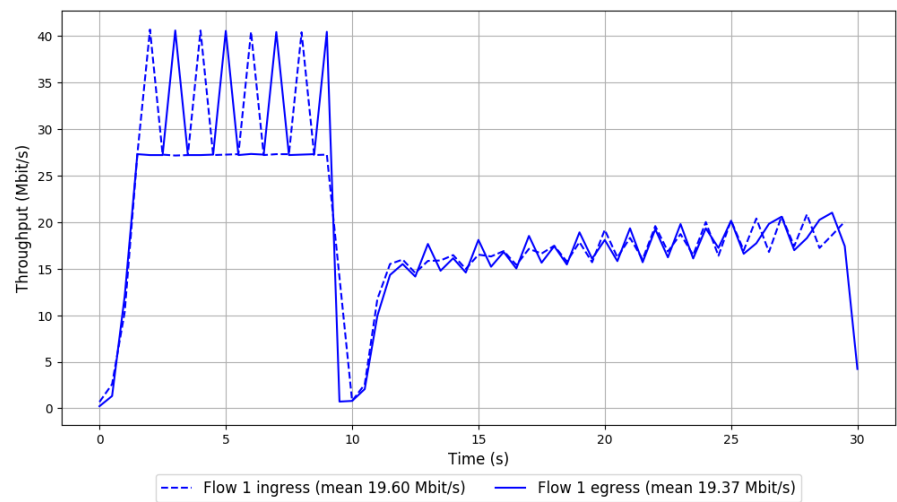
-- Flow 1:

Average throughput: 19.37 Mbit/s

95th percentile per-packet one-way delay: 119.097 ms

Loss rate: 1.13%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2017-11-30 07:16:35

End at: 2017-11-30 07:17:05

Below is generated by plot.py at 2017-11-30 09:59:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 9.52 Mbit/s

95th percentile per-packet one-way delay: 117.768 ms

Loss rate: 0.00%

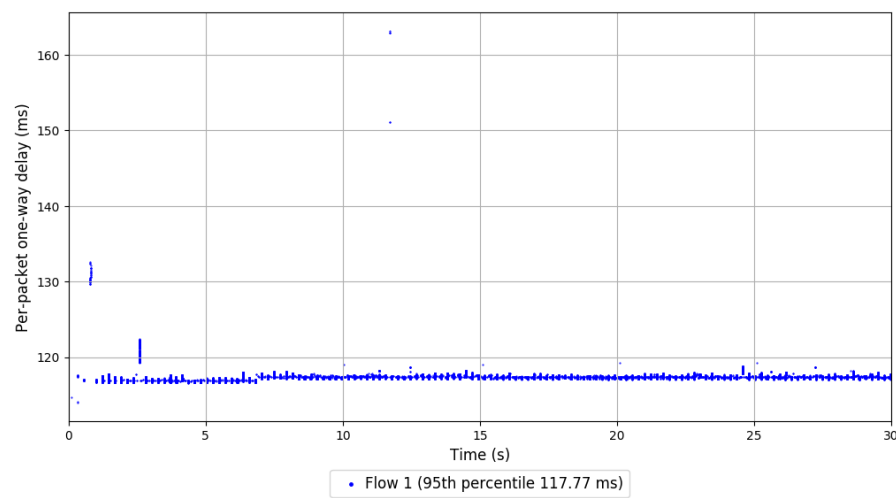
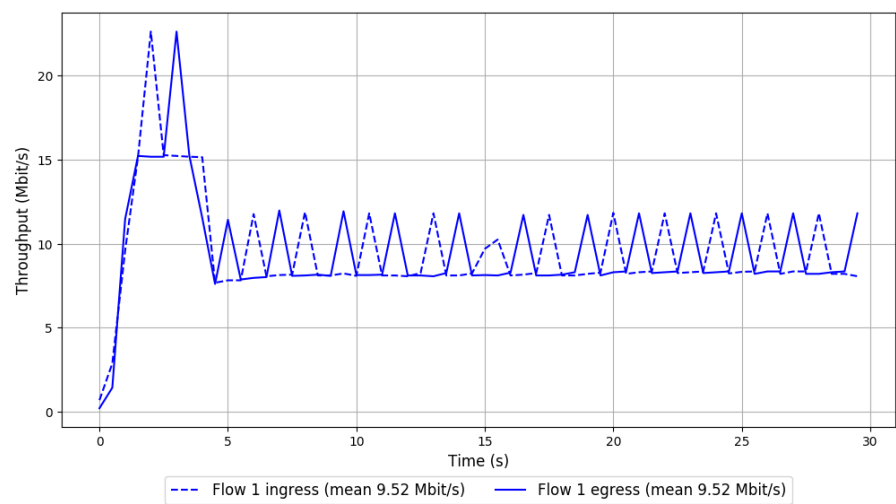
-- Flow 1:

Average throughput: 9.52 Mbit/s

95th percentile per-packet one-way delay: 117.768 ms

Loss rate: 0.00%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2017-11-30 07:27:49

End at: 2017-11-30 07:28:19

Below is generated by plot.py at 2017-11-30 09:59:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 30.48 Mbit/s

95th percentile per-packet one-way delay: 116.518 ms

Loss rate: 0.00%

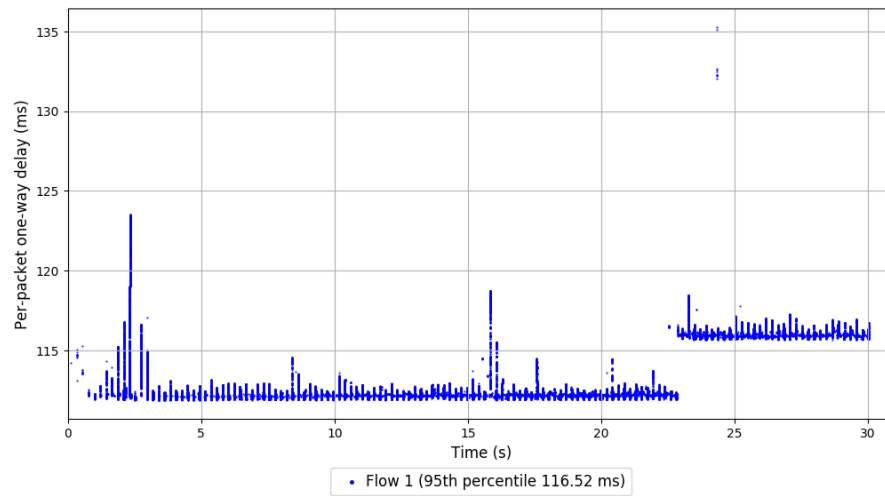
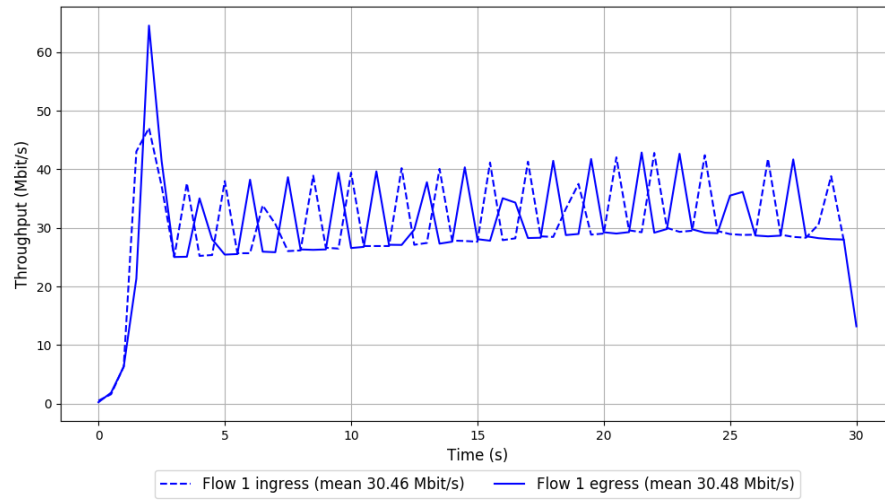
-- Flow 1:

Average throughput: 30.48 Mbit/s

95th percentile per-packet one-way delay: 116.518 ms

Loss rate: 0.00%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2017-11-30 07:39:02

End at: 2017-11-30 07:39:32

Below is generated by plot.py at 2017-11-30 09:59:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 22.09 Mbit/s

95th percentile per-packet one-way delay: 115.434 ms

Loss rate: 0.00%

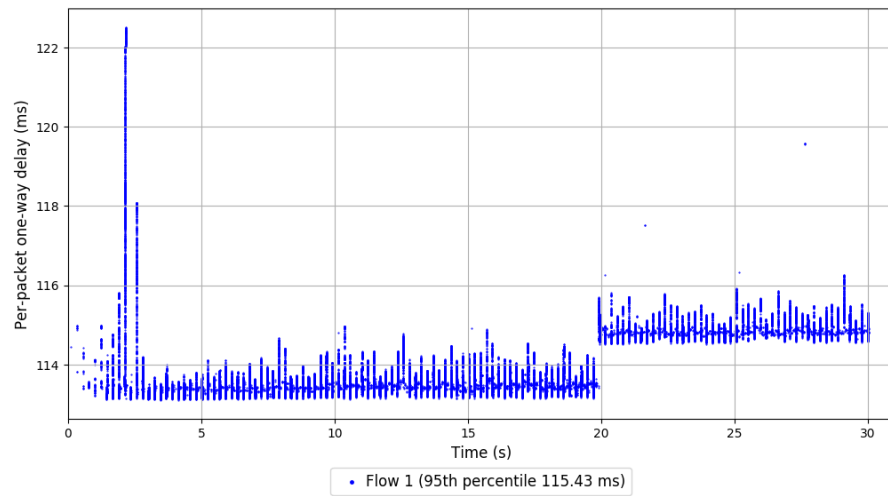
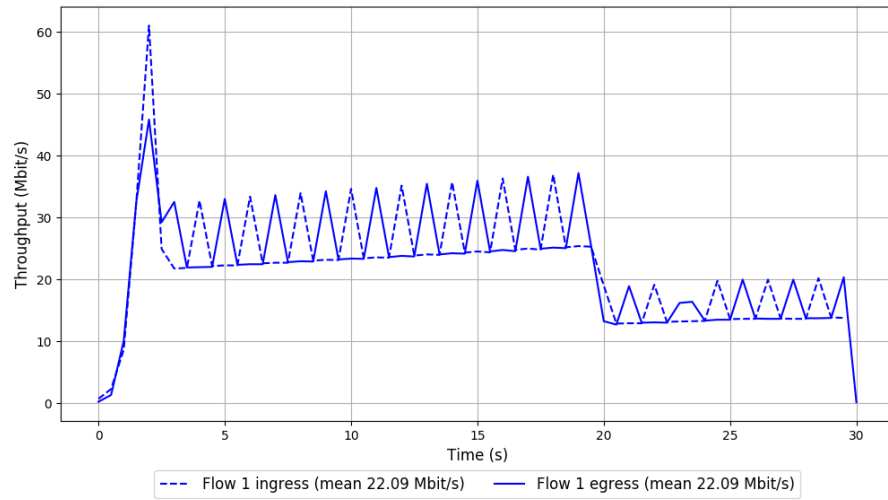
-- Flow 1:

Average throughput: 22.09 Mbit/s

95th percentile per-packet one-way delay: 115.434 ms

Loss rate: 0.00%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2017-11-30 07:49:56

End at: 2017-11-30 07:50:26

Below is generated by plot.py at 2017-11-30 09:59:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 26.86 Mbit/s

95th percentile per-packet one-way delay: 117.180 ms

Loss rate: 0.00%

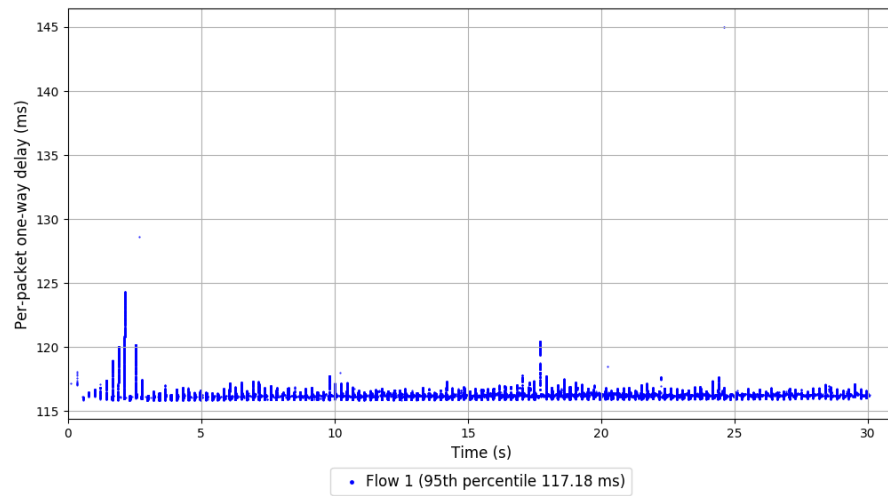
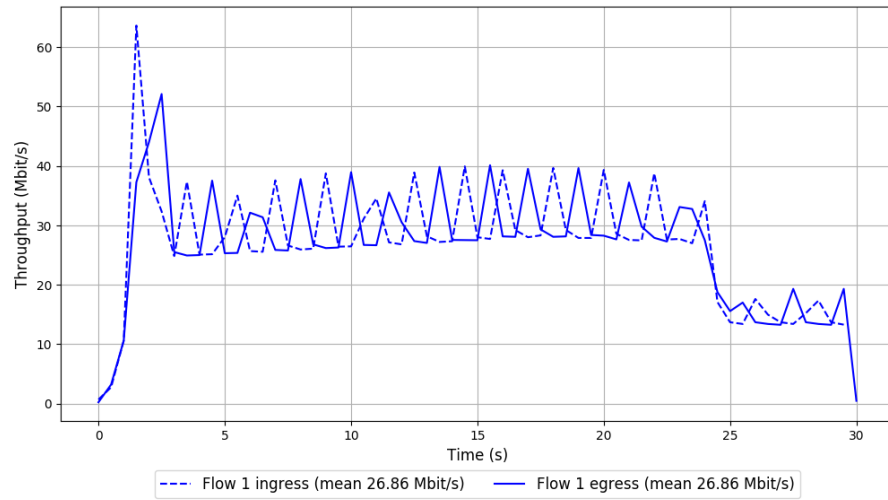
-- Flow 1:

Average throughput: 26.86 Mbit/s

95th percentile per-packet one-way delay: 117.180 ms

Loss rate: 0.00%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2017-11-30 08:00:55

End at: 2017-11-30 08:01:25

Below is generated by plot.py at 2017-11-30 09:59:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 60.36 Mbit/s

95th percentile per-packet one-way delay: 119.297 ms

Loss rate: 0.00%

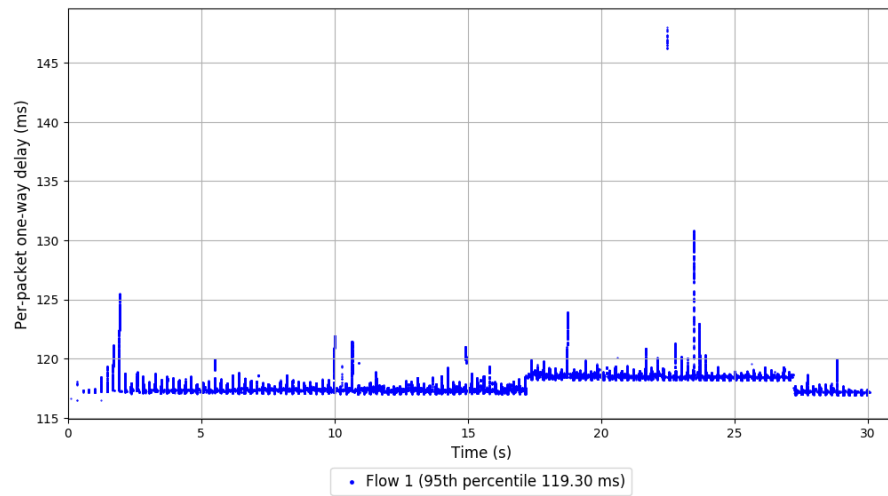
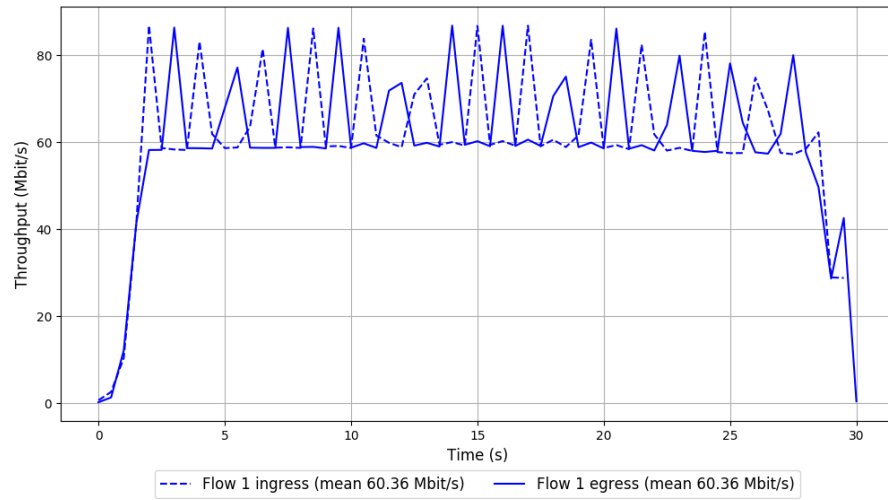
-- Flow 1:

Average throughput: 60.36 Mbit/s

95th percentile per-packet one-way delay: 119.297 ms

Loss rate: 0.00%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2017-11-30 08:11:44

End at: 2017-11-30 08:12:14

Below is generated by plot.py at 2017-11-30 09:59:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 25.90 Mbit/s

95th percentile per-packet one-way delay: 118.167 ms

Loss rate: 0.01%

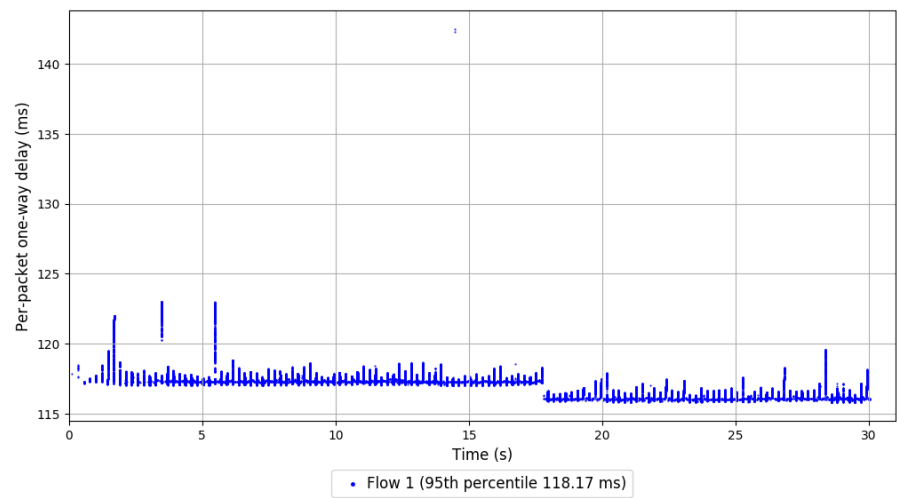
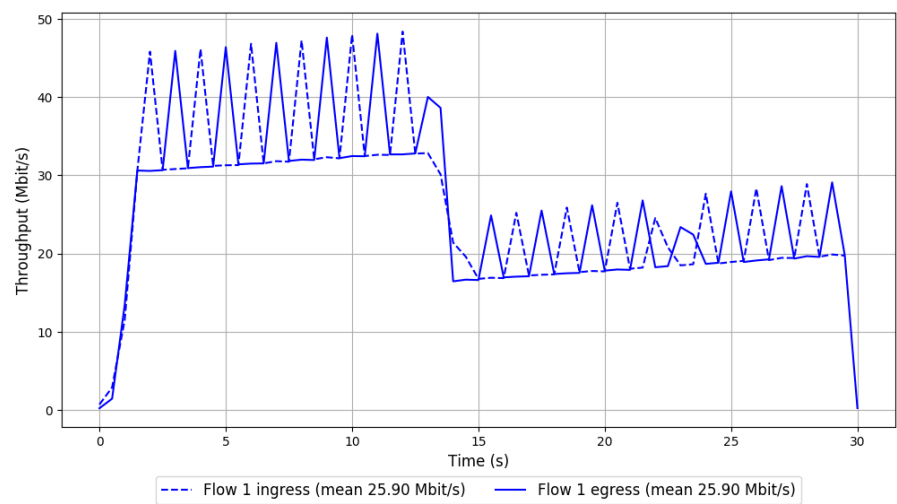
-- Flow 1:

Average throughput: 25.90 Mbit/s

95th percentile per-packet one-way delay: 118.167 ms

Loss rate: 0.01%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2017-11-30 08:23:07

End at: 2017-11-30 08:23:37

Below is generated by plot.py at 2017-11-30 09:59:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 10.89 Mbit/s

95th percentile per-packet one-way delay: 116.912 ms

Loss rate: 0.01%

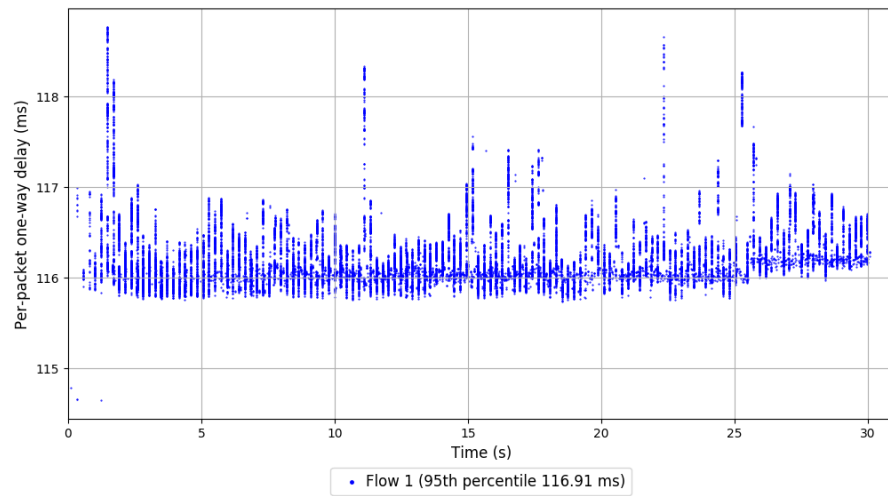
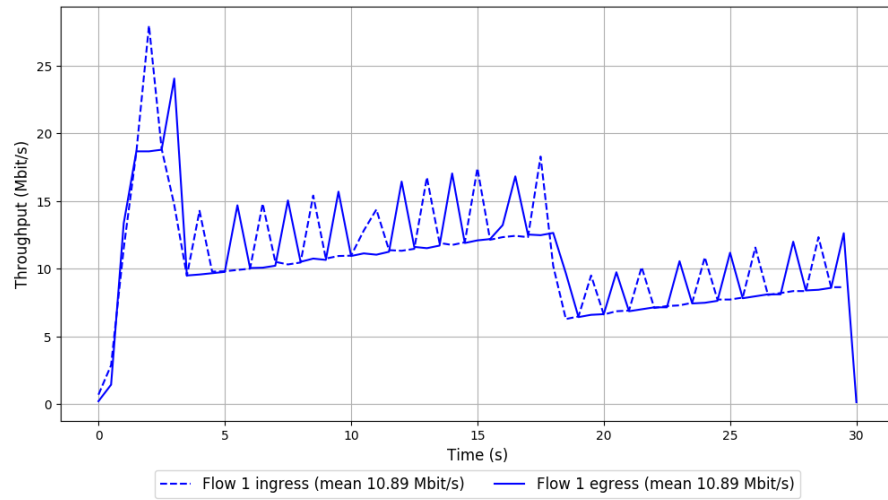
-- Flow 1:

Average throughput: 10.89 Mbit/s

95th percentile per-packet one-way delay: 116.912 ms

Loss rate: 0.01%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2017-11-30 08:34:32

End at: 2017-11-30 08:35:02

Below is generated by plot.py at 2017-11-30 09:59:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 23.23 Mbit/s

95th percentile per-packet one-way delay: 120.539 ms

Loss rate: 0.82%

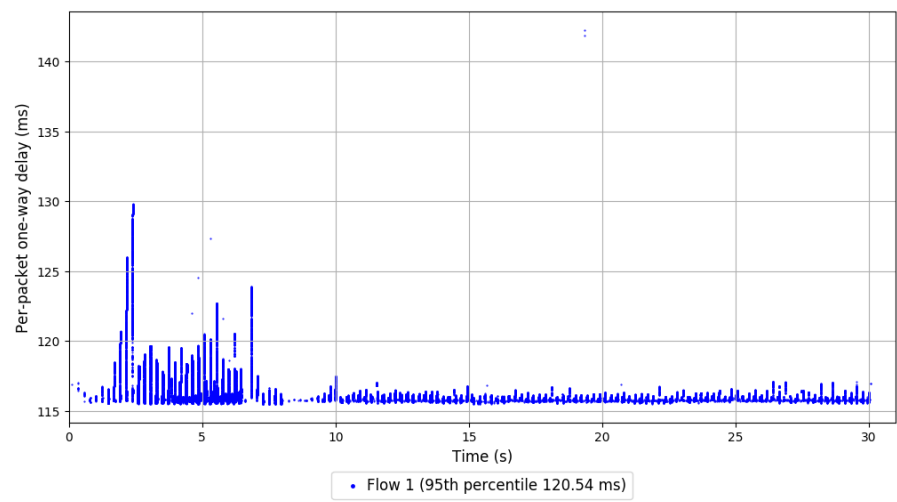
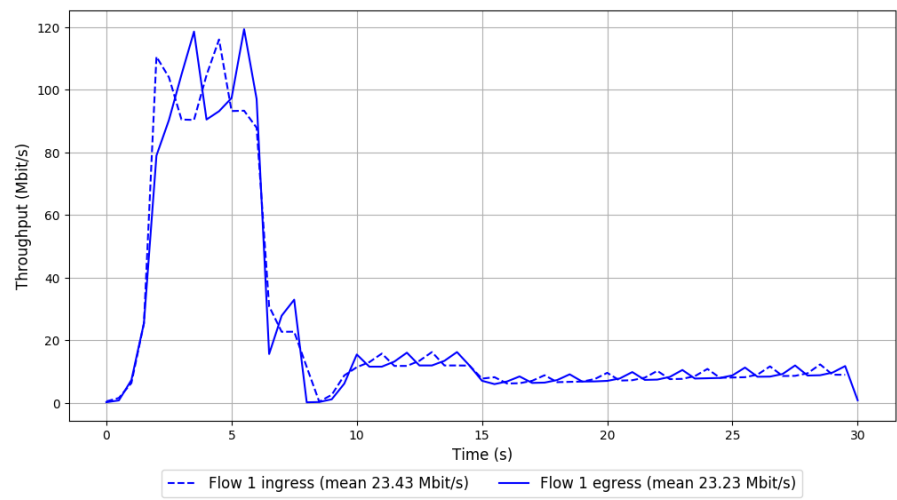
-- Flow 1:

Average throughput: 23.23 Mbit/s

95th percentile per-packet one-way delay: 120.539 ms

Loss rate: 0.82%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2017-11-30 08:45:29

End at: 2017-11-30 08:45:59

Below is generated by plot.py at 2017-11-30 09:59:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 25.27 Mbit/s

95th percentile per-packet one-way delay: 117.178 ms

Loss rate: 0.21%

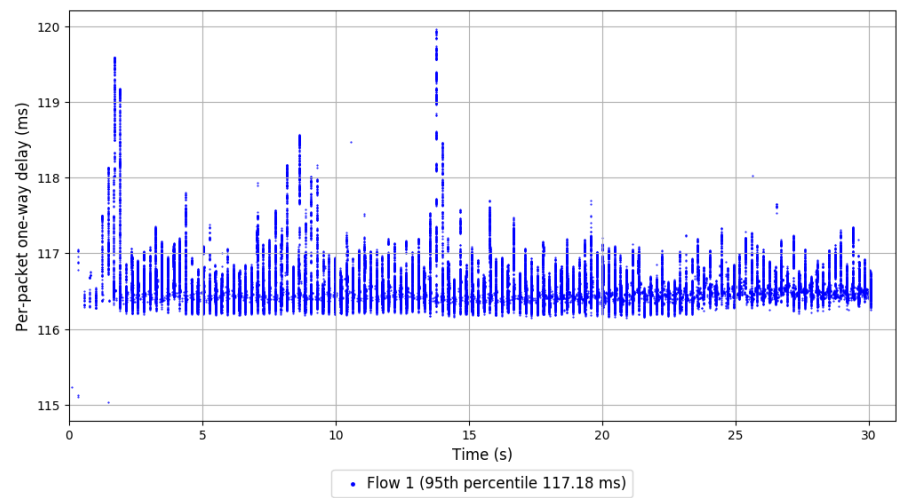
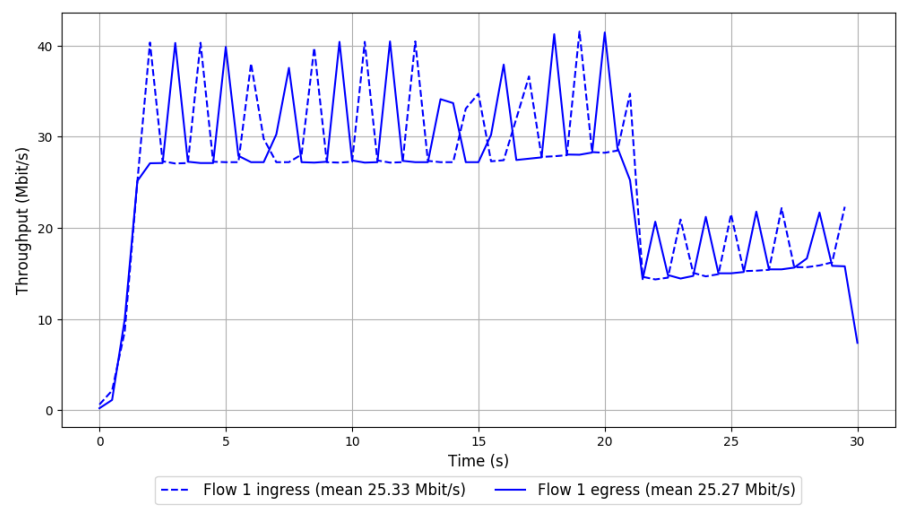
-- Flow 1:

Average throughput: 25.27 Mbit/s

95th percentile per-packet one-way delay: 117.178 ms

Loss rate: 0.21%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2017-11-30 07:14:21

End at: 2017-11-30 07:14:51

Below is generated by plot.py at 2017-11-30 09:59:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 125.72 Mbit/s

95th percentile per-packet one-way delay: 144.852 ms

Loss rate: 0.00%

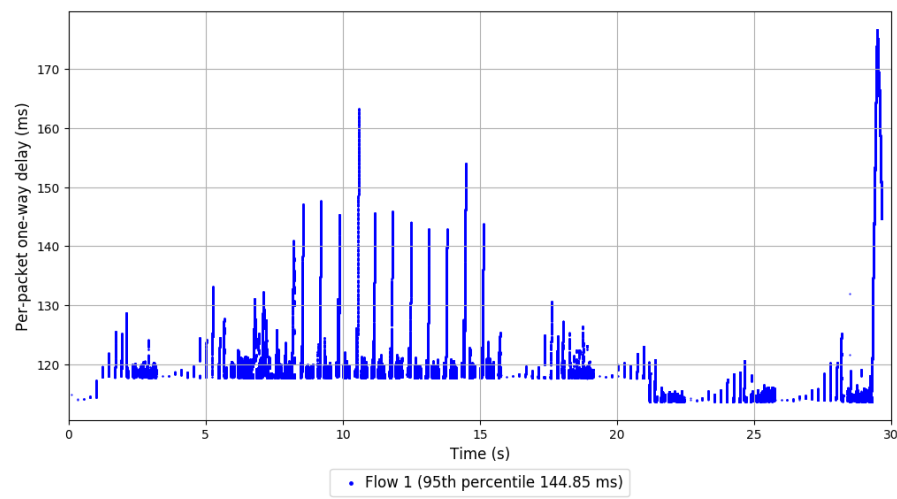
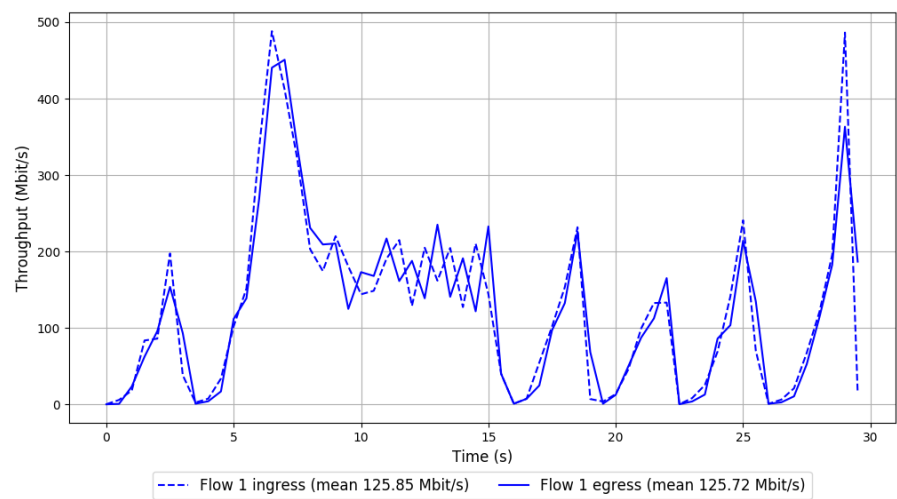
-- Flow 1:

Average throughput: 125.72 Mbit/s

95th percentile per-packet one-way delay: 144.852 ms

Loss rate: 0.00%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2017-11-30 07:25:32

End at: 2017-11-30 07:26:02

Below is generated by plot.py at 2017-11-30 09:59:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 164.17 Mbit/s

95th percentile per-packet one-way delay: 129.364 ms

Loss rate: 0.01%

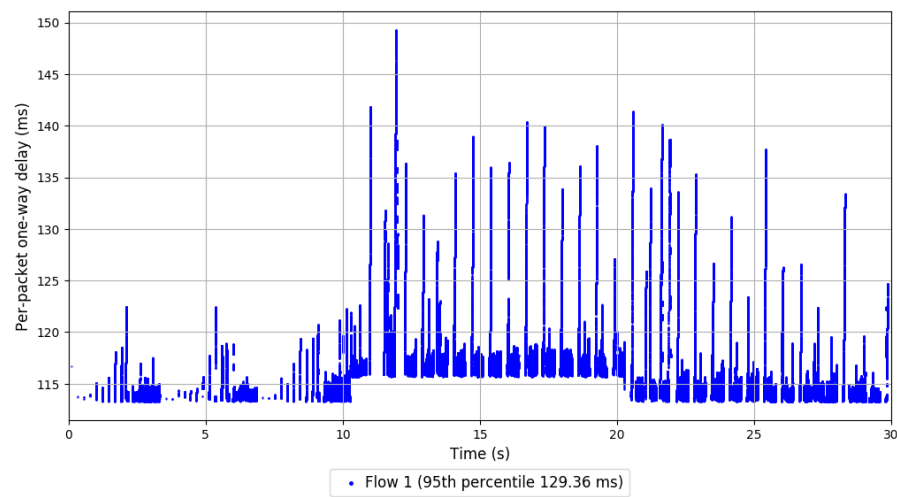
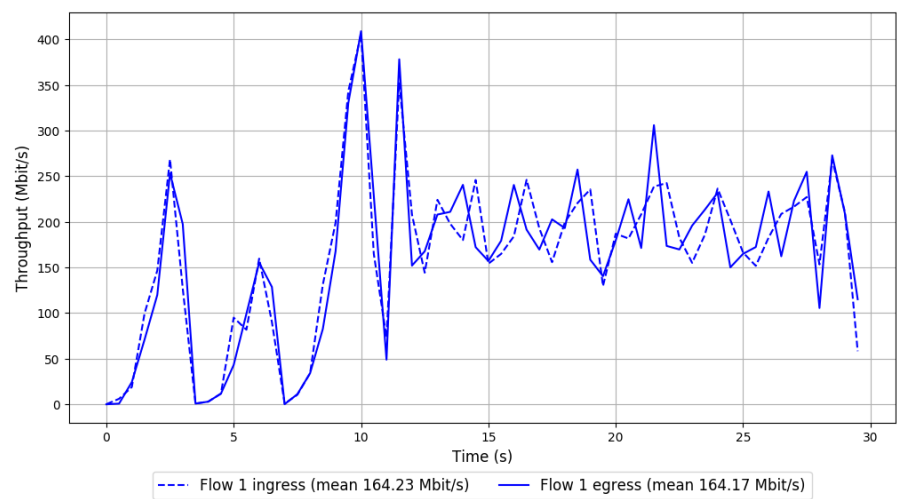
-- Flow 1:

Average throughput: 164.17 Mbit/s

95th percentile per-packet one-way delay: 129.364 ms

Loss rate: 0.01%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2017-11-30 07:36:38

End at: 2017-11-30 07:37:08

Below is generated by plot.py at 2017-11-30 10:01:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 256.79 Mbit/s

95th percentile per-packet one-way delay: 185.458 ms

Loss rate: 0.21%

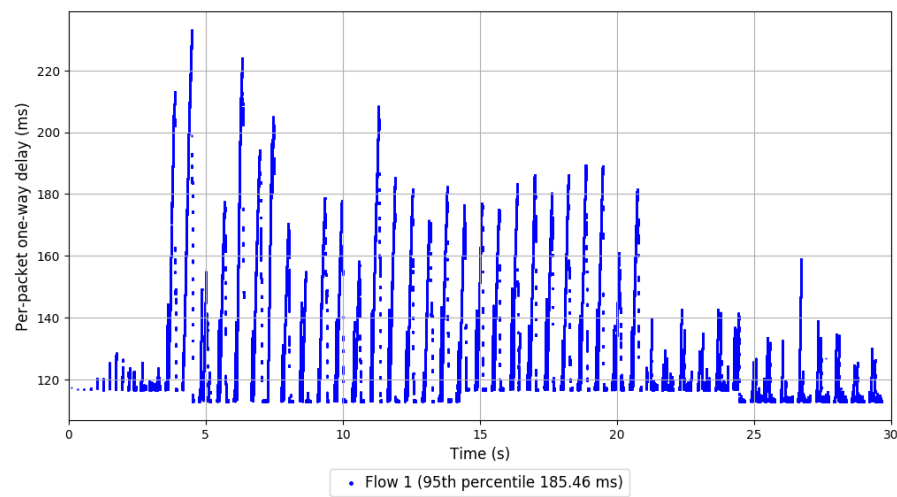
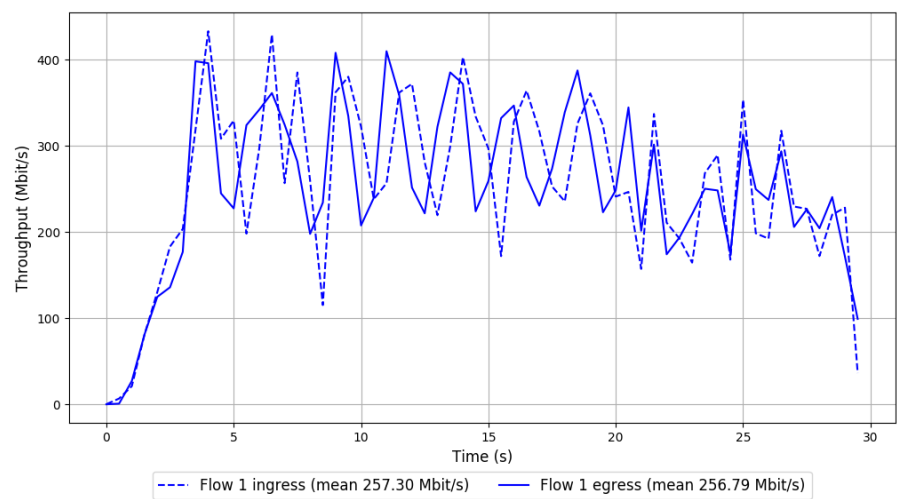
-- Flow 1:

Average throughput: 256.79 Mbit/s

95th percentile per-packet one-way delay: 185.458 ms

Loss rate: 0.21%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2017-11-30 07:47:41

End at: 2017-11-30 07:48:11

Below is generated by plot.py at 2017-11-30 10:01:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 140.51 Mbit/s

95th percentile per-packet one-way delay: 128.388 ms

Loss rate: 0.62%

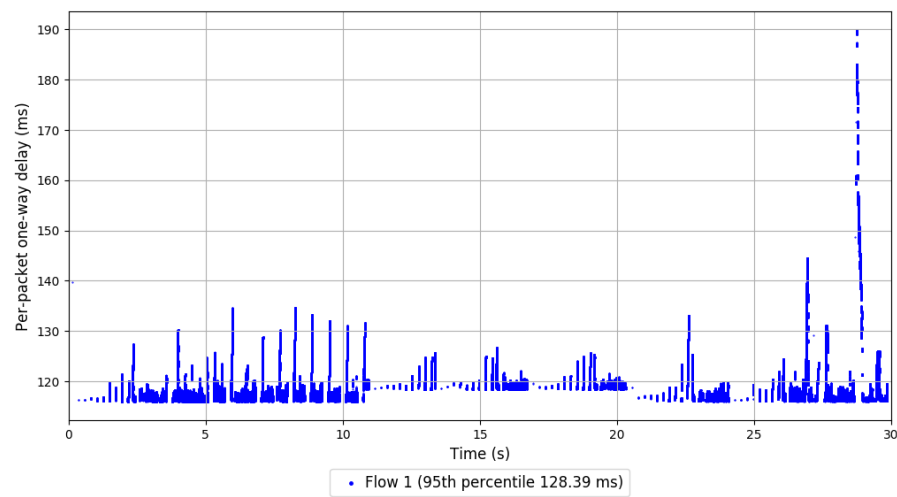
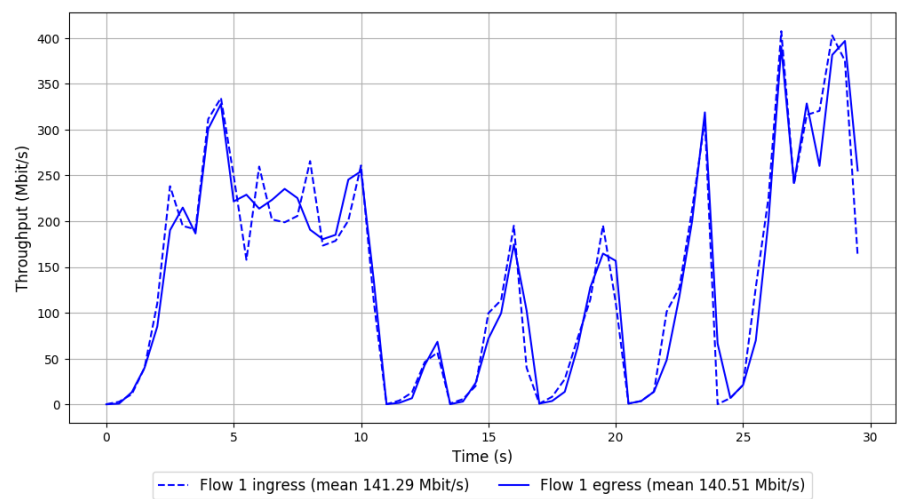
-- Flow 1:

Average throughput: 140.51 Mbit/s

95th percentile per-packet one-way delay: 128.388 ms

Loss rate: 0.62%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2017-11-30 07:58:36

End at: 2017-11-30 07:59:06

Below is generated by plot.py at 2017-11-30 10:02:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 215.27 Mbit/s

95th percentile per-packet one-way delay: 199.886 ms

Loss rate: 0.50%

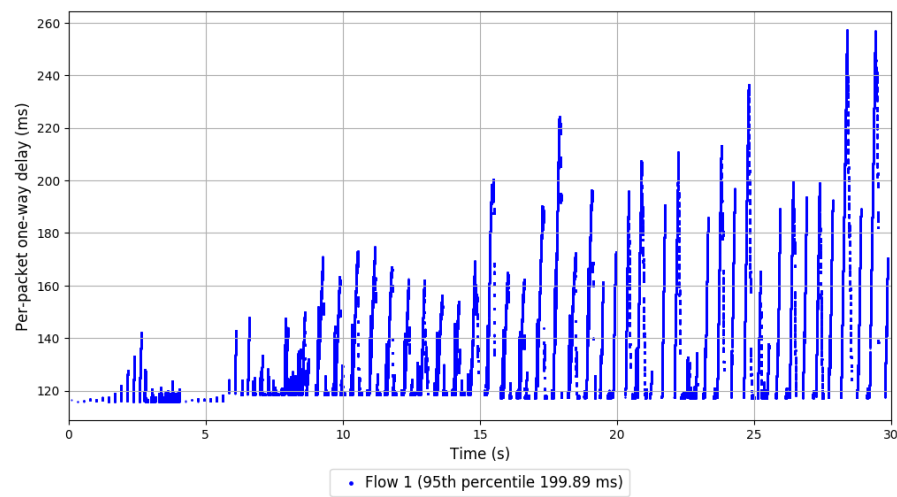
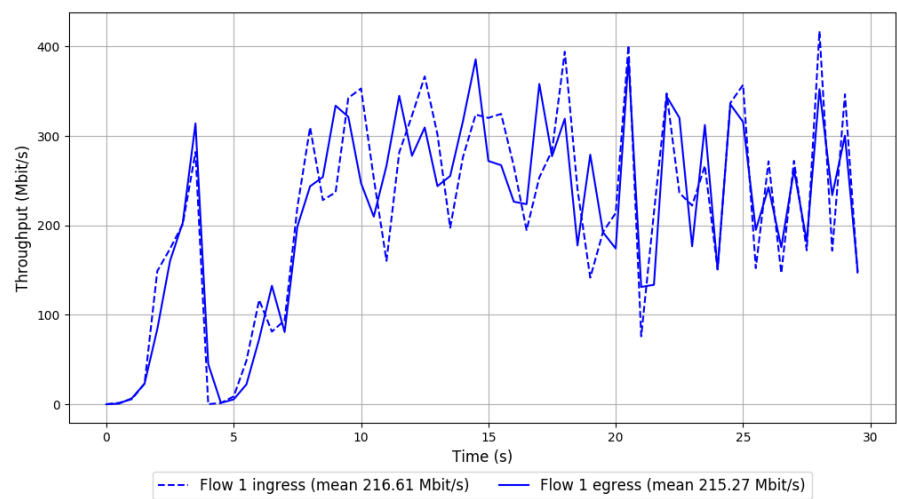
-- Flow 1:

Average throughput: 215.27 Mbit/s

95th percentile per-packet one-way delay: 199.886 ms

Loss rate: 0.50%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2017-11-30 08:09:28

End at: 2017-11-30 08:09:58

Below is generated by plot.py at 2017-11-30 10:02:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 180.19 Mbit/s

95th percentile per-packet one-way delay: 160.699 ms

Loss rate: 0.01%

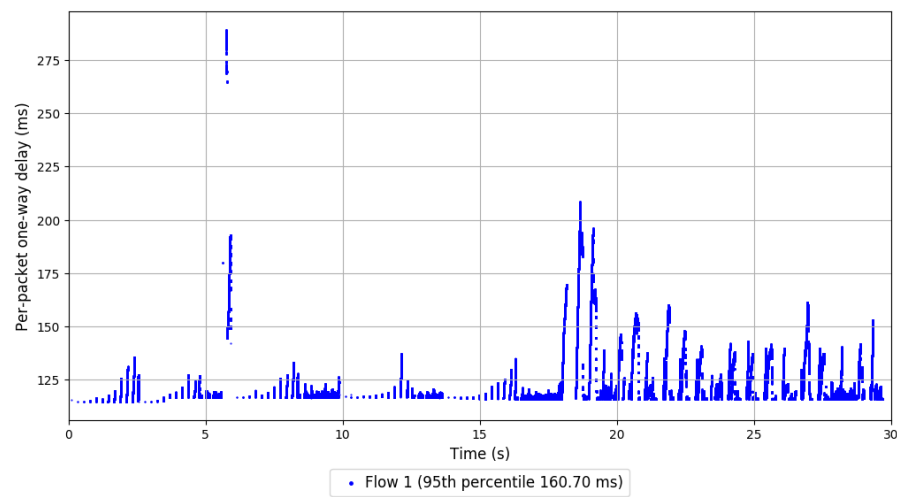
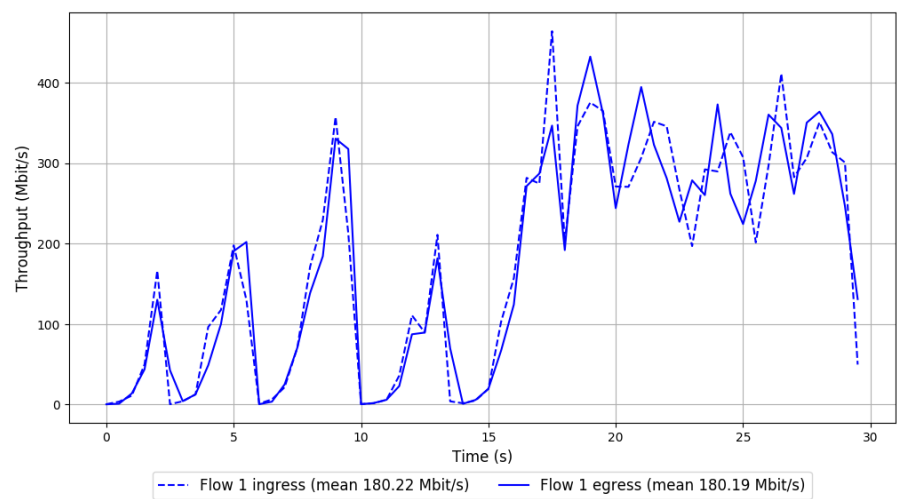
-- Flow 1:

Average throughput: 180.19 Mbit/s

95th percentile per-packet one-way delay: 160.699 ms

Loss rate: 0.01%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2017-11-30 08:20:43

End at: 2017-11-30 08:21:13

Below is generated by plot.py at 2017-11-30 10:03:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 251.54 Mbit/s

95th percentile per-packet one-way delay: 140.072 ms

Loss rate: 0.06%

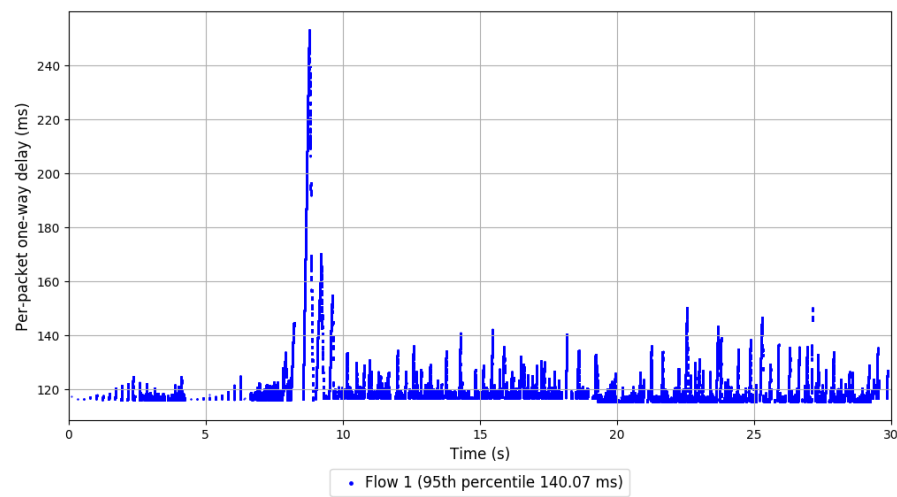
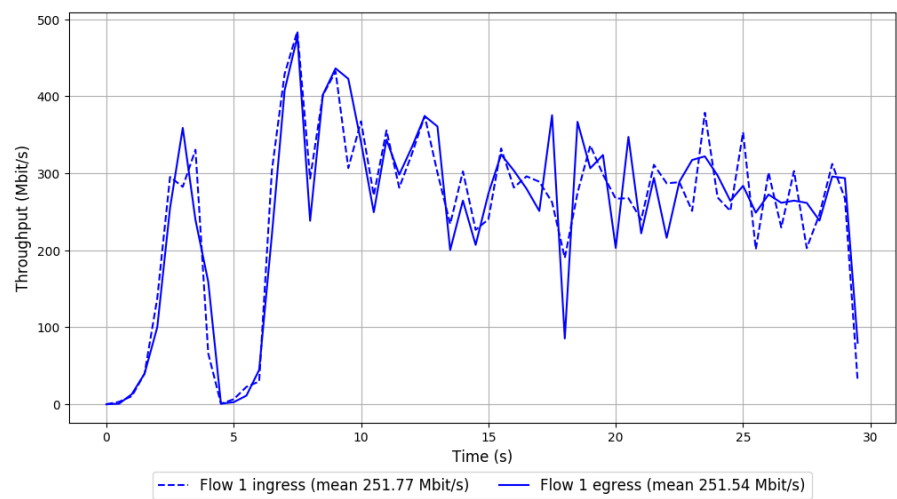
-- Flow 1:

Average throughput: 251.54 Mbit/s

95th percentile per-packet one-way delay: 140.072 ms

Loss rate: 0.06%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2017-11-30 08:32:15

End at: 2017-11-30 08:32:45

Below is generated by plot.py at 2017-11-30 10:03:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 181.01 Mbit/s

95th percentile per-packet one-way delay: 128.294 ms

Loss rate: 0.01%

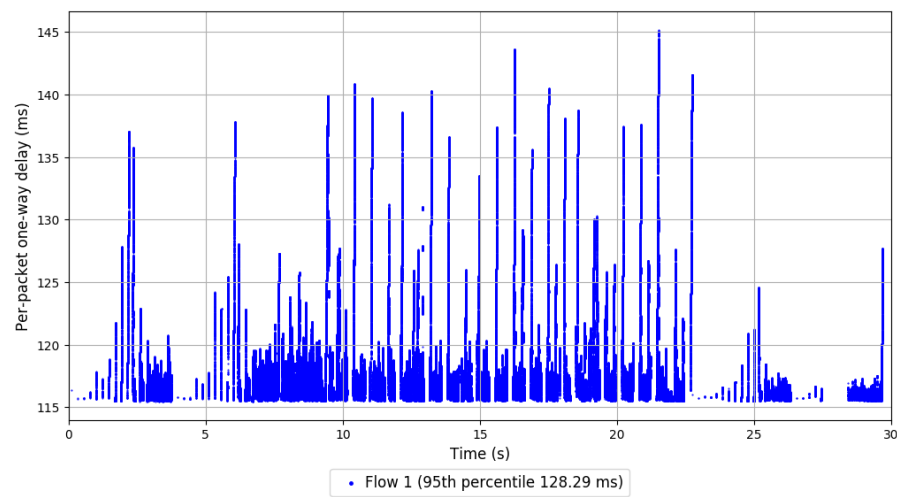
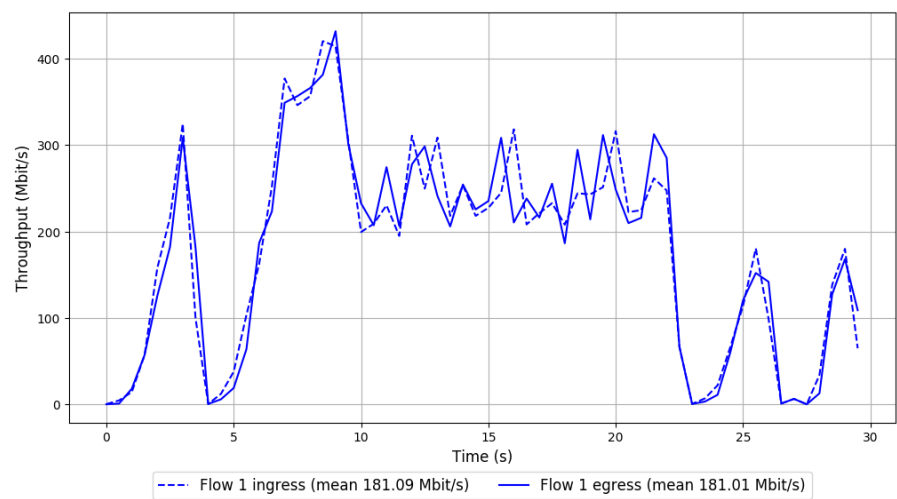
-- Flow 1:

Average throughput: 181.01 Mbit/s

95th percentile per-packet one-way delay: 128.294 ms

Loss rate: 0.01%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2017-11-30 08:43:11

End at: 2017-11-30 08:43:41

Below is generated by plot.py at 2017-11-30 10:03:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 174.83 Mbit/s

95th percentile per-packet one-way delay: 156.297 ms

Loss rate: 0.17%

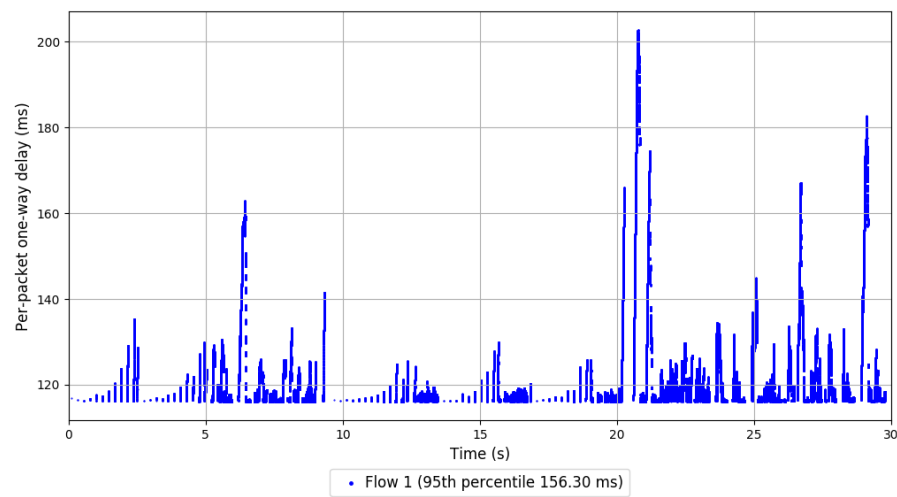
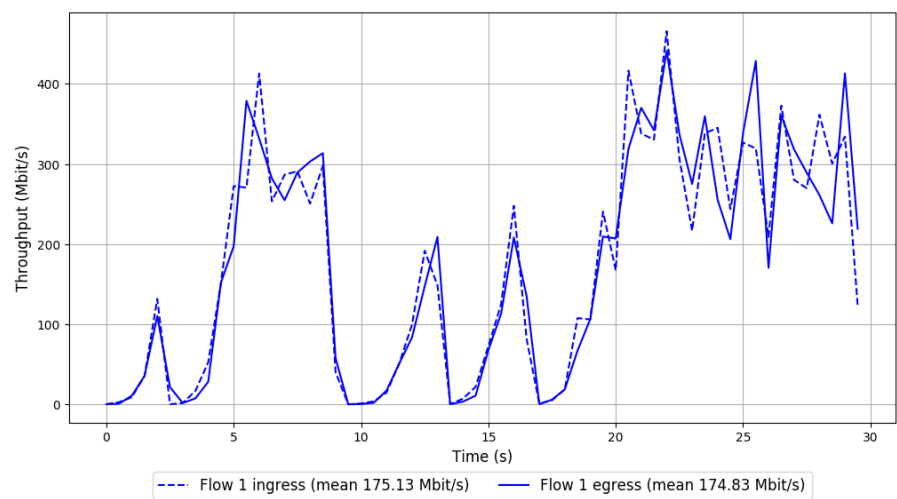
-- Flow 1:

Average throughput: 174.83 Mbit/s

95th percentile per-packet one-way delay: 156.297 ms

Loss rate: 0.17%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2017-11-30 08:54:08

End at: 2017-11-30 08:54:38

Below is generated by plot.py at 2017-11-30 10:03:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 154.74 Mbit/s

95th percentile per-packet one-way delay: 231.360 ms

Loss rate: 4.00%

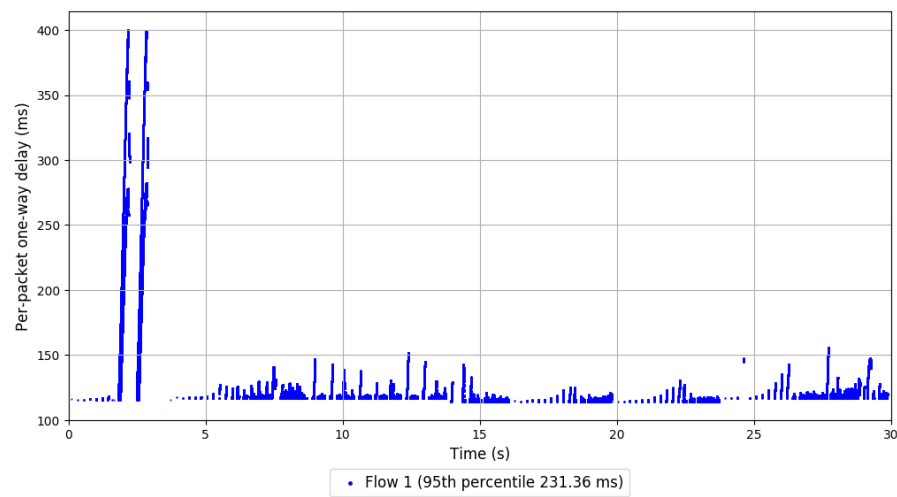
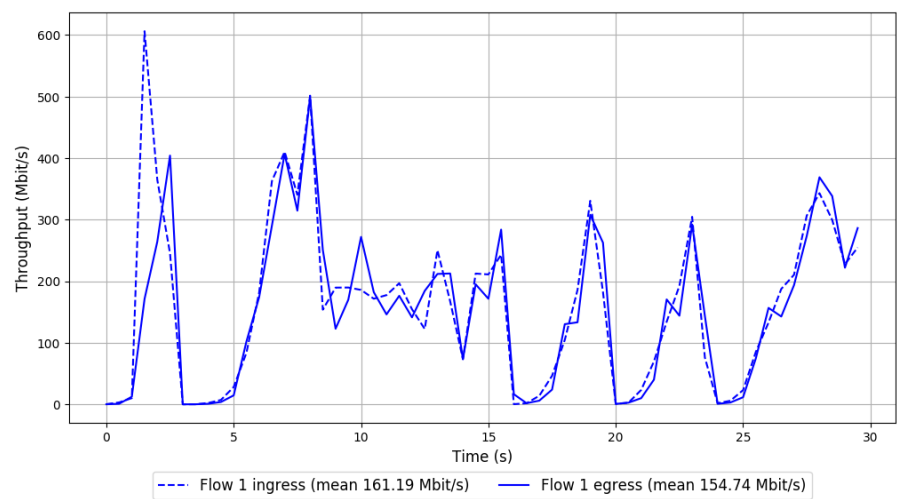
-- Flow 1:

Average throughput: 154.74 Mbit/s

95th percentile per-packet one-way delay: 231.360 ms

Loss rate: 4.00%

Run 10: Report of Verus — Data Link

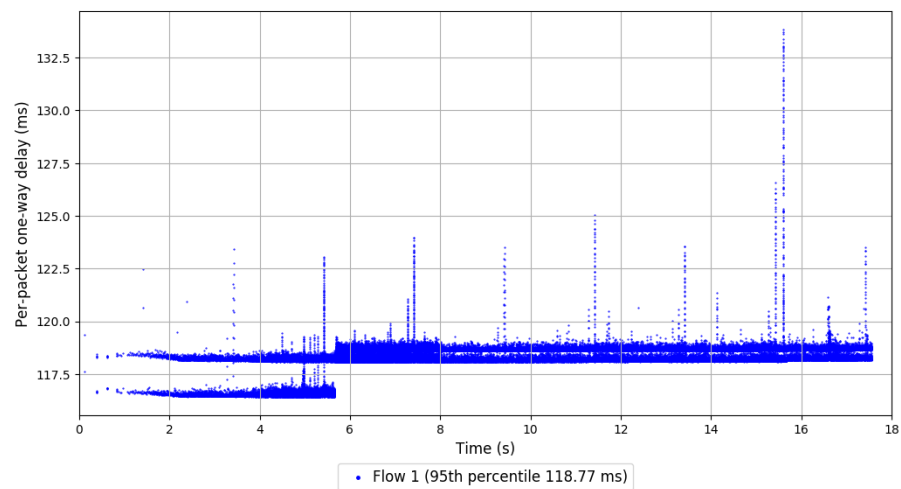
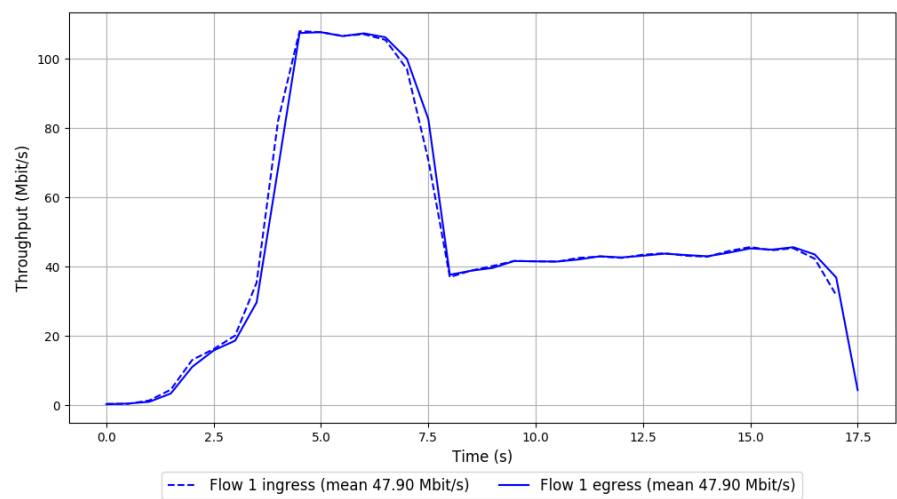


Run 1: Statistics of Copa

Start at: 2017-11-30 07:08:14

End at: 2017-11-30 07:08:44

Run 1: Report of Copa — Data Link

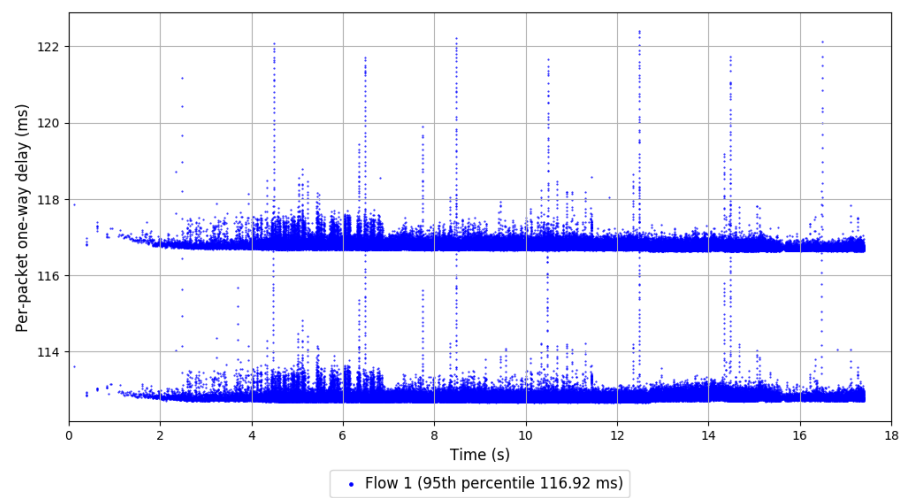
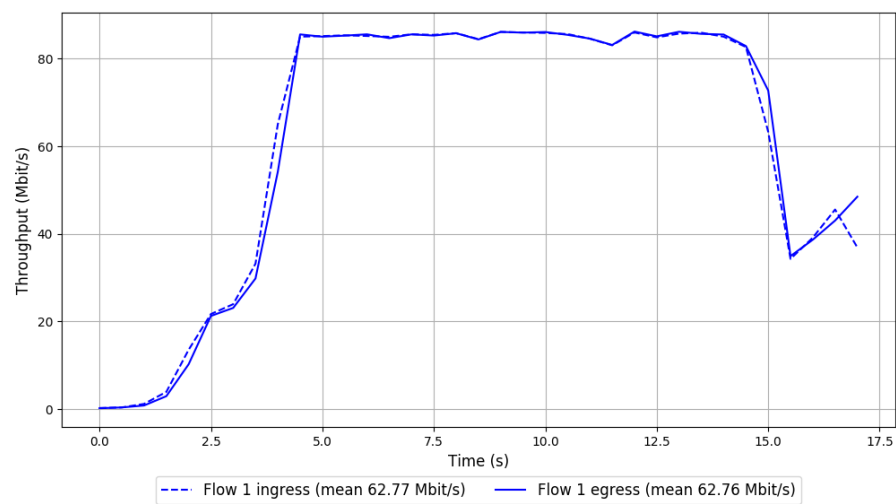


Run 2: Statistics of Copa

Start at: 2017-11-30 07:19:07

End at: 2017-11-30 07:19:37

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2017-11-30 07:30:22

End at: 2017-11-30 07:30:52

Below is generated by plot.py at 2017-11-30 10:04:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.21 Mbit/s

95th percentile per-packet one-way delay: 116.138 ms

Loss rate: 0.00%

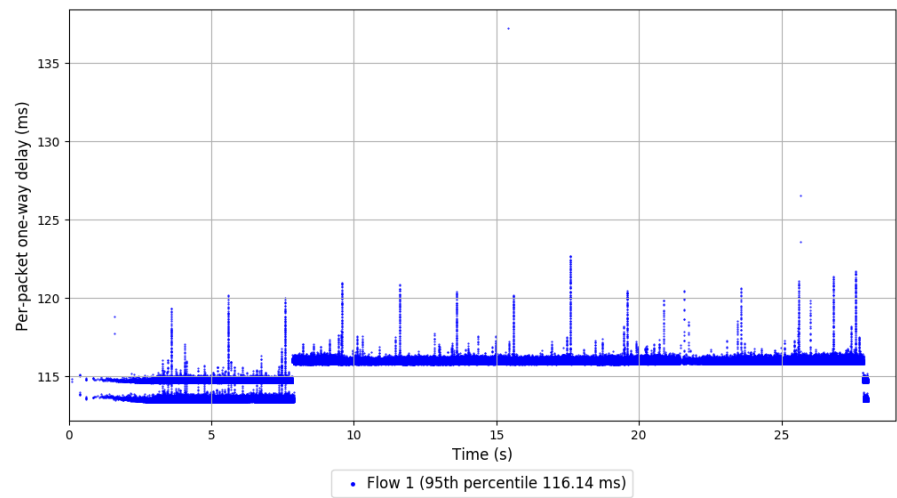
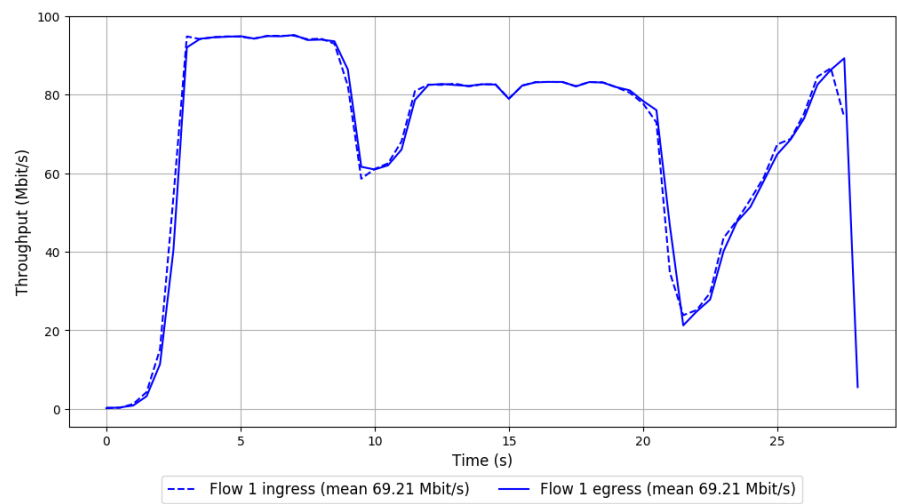
-- Flow 1:

Average throughput: 69.21 Mbit/s

95th percentile per-packet one-way delay: 116.138 ms

Loss rate: 0.00%

Run 3: Report of Copa — Data Link

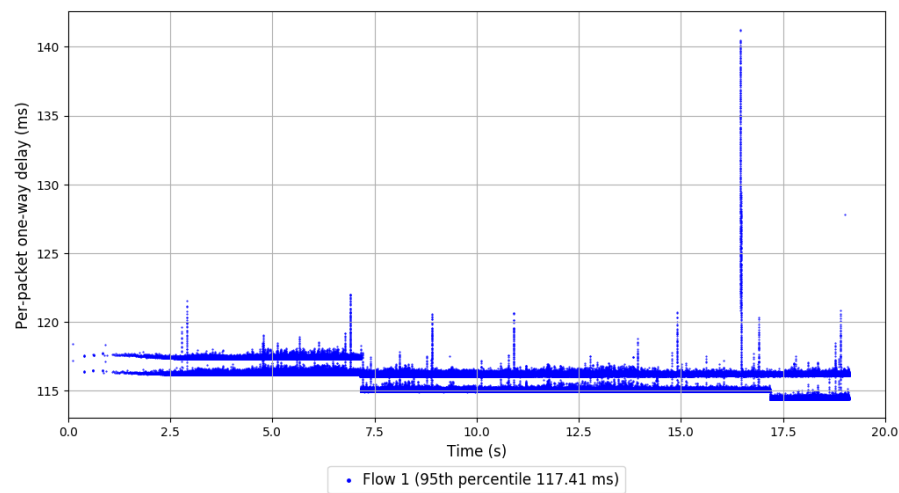
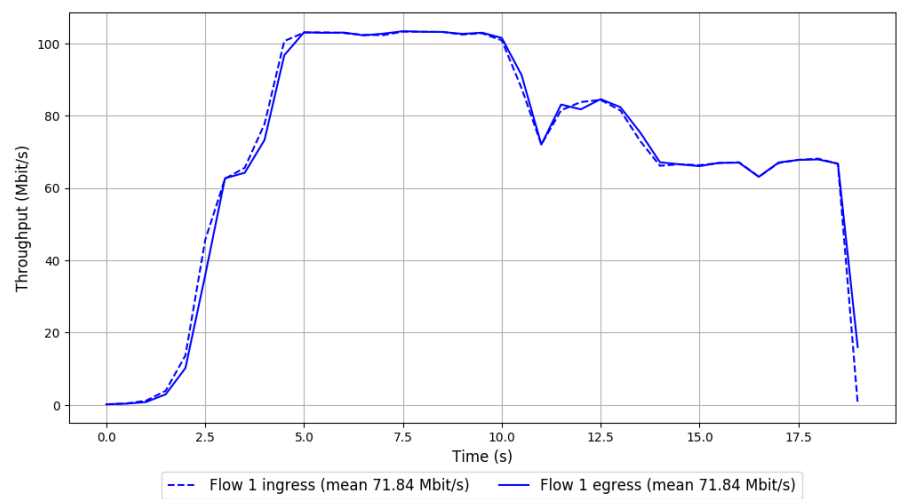


Run 4: Statistics of Copa

Start at: 2017-11-30 07:41:34

End at: 2017-11-30 07:42:04

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2017-11-30 07:52:30

End at: 2017-11-30 07:53:00

Below is generated by plot.py at 2017-11-30 10:04:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 52.99 Mbit/s

95th percentile per-packet one-way delay: 119.264 ms

Loss rate: 0.01%

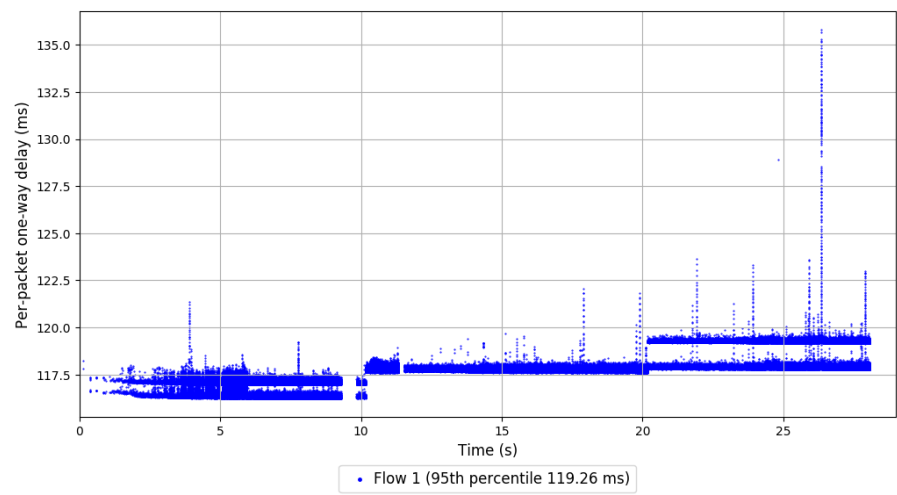
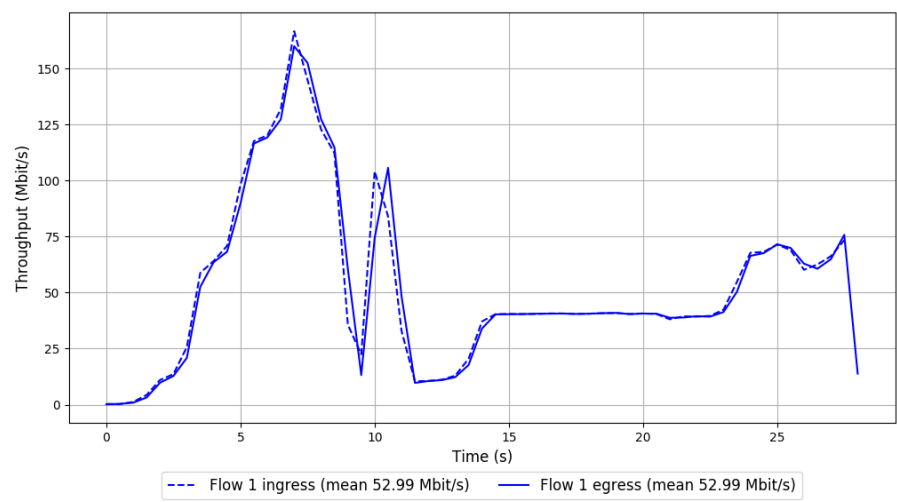
-- Flow 1:

Average throughput: 52.99 Mbit/s

95th percentile per-packet one-way delay: 119.264 ms

Loss rate: 0.01%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2017-11-30 08:03:27

End at: 2017-11-30 08:03:57

Below is generated by plot.py at 2017-11-30 10:04:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 45.16 Mbit/s

95th percentile per-packet one-way delay: 118.083 ms

Loss rate: 0.00%

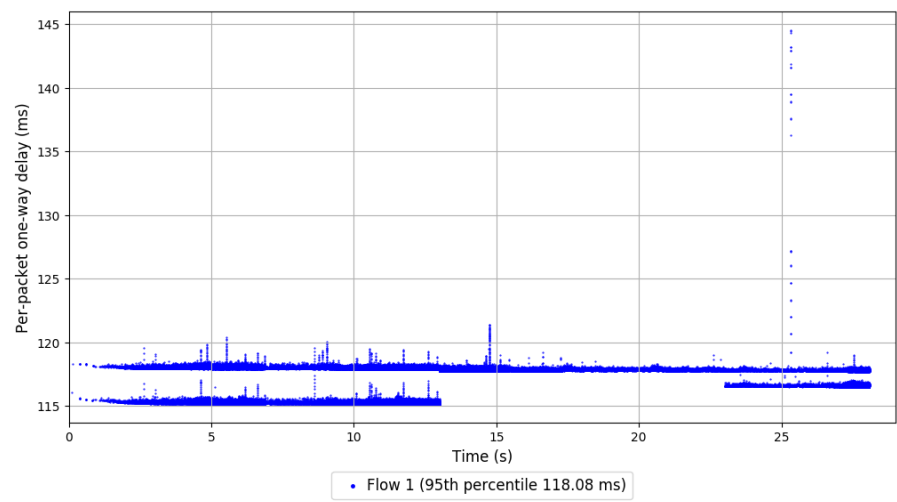
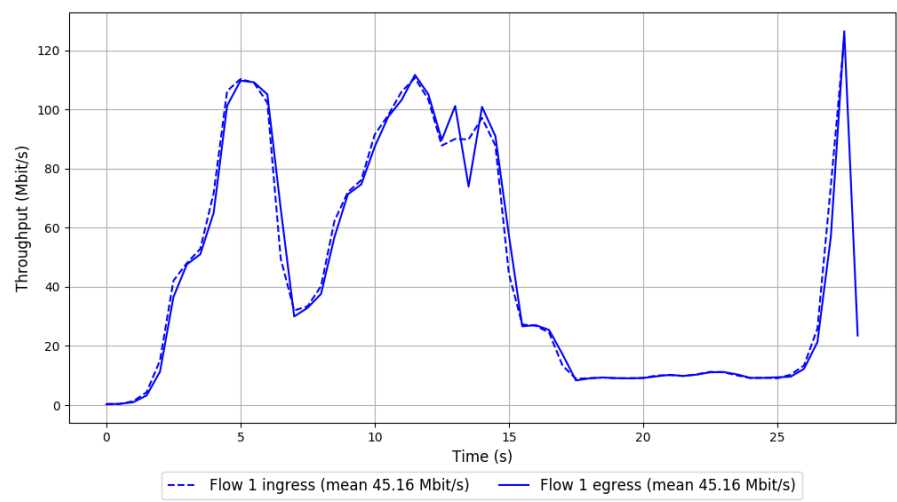
-- Flow 1:

Average throughput: 45.16 Mbit/s

95th percentile per-packet one-way delay: 118.083 ms

Loss rate: 0.00%

Run 6: Report of Copa — Data Link

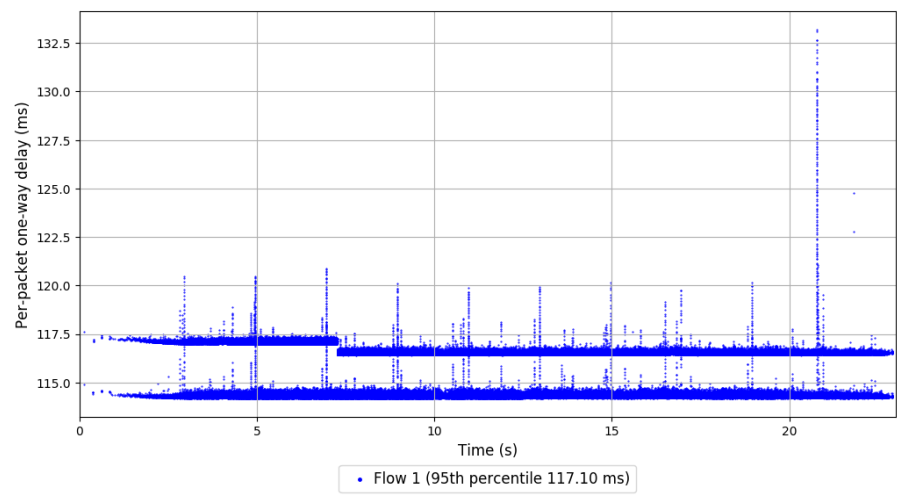
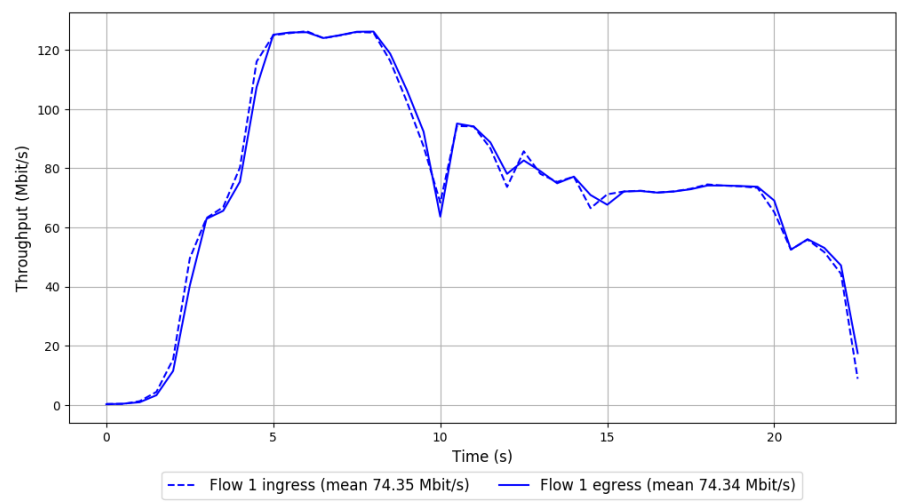


Run 7: Statistics of Copa

Start at: 2017-11-30 08:14:18

End at: 2017-11-30 08:14:48

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2017-11-30 08:25:44

End at: 2017-11-30 08:26:15

Below is generated by plot.py at 2017-11-30 10:05:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.17 Mbit/s

95th percentile per-packet one-way delay: 116.836 ms

Loss rate: 0.00%

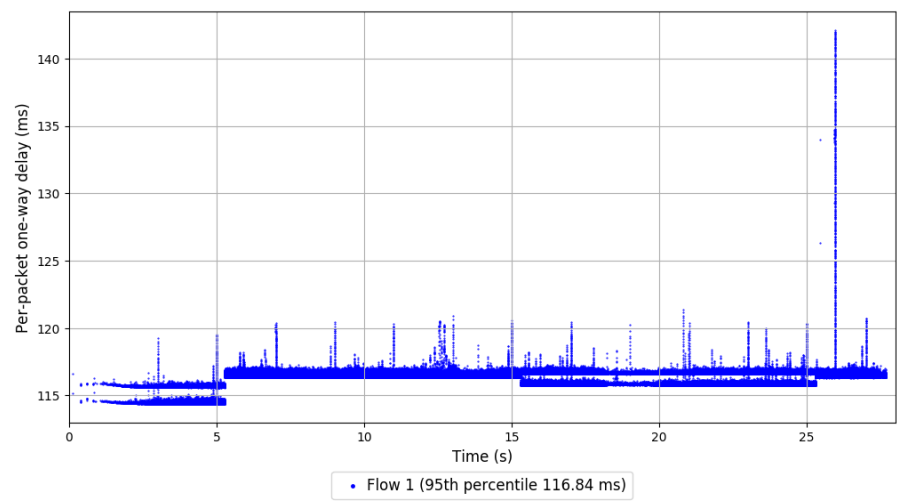
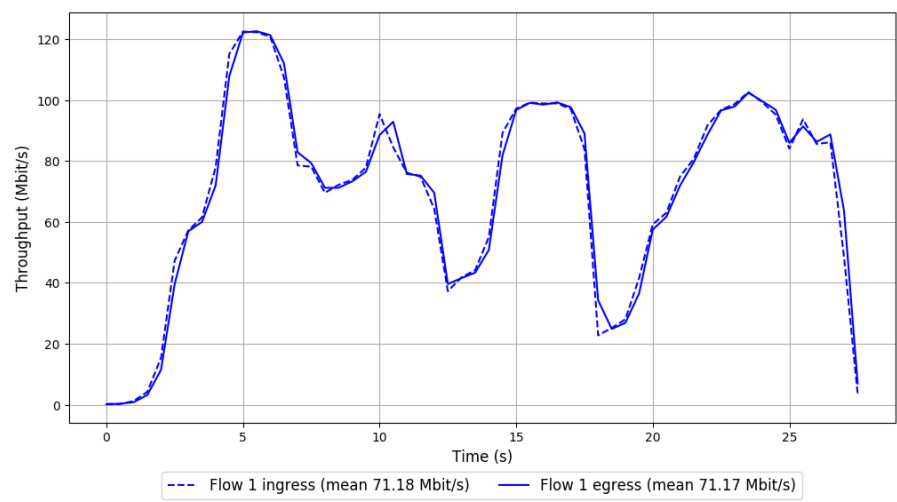
-- Flow 1:

Average throughput: 71.17 Mbit/s

95th percentile per-packet one-way delay: 116.836 ms

Loss rate: 0.00%

Run 8: Report of Copa — Data Link

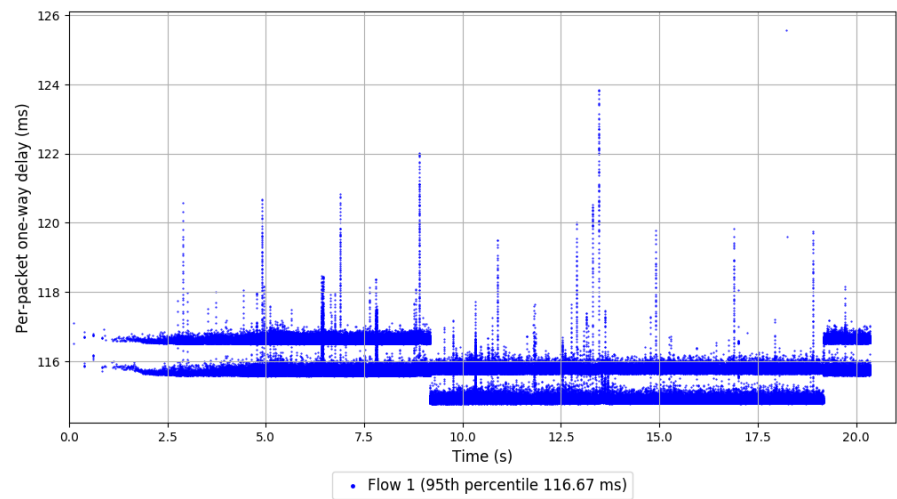
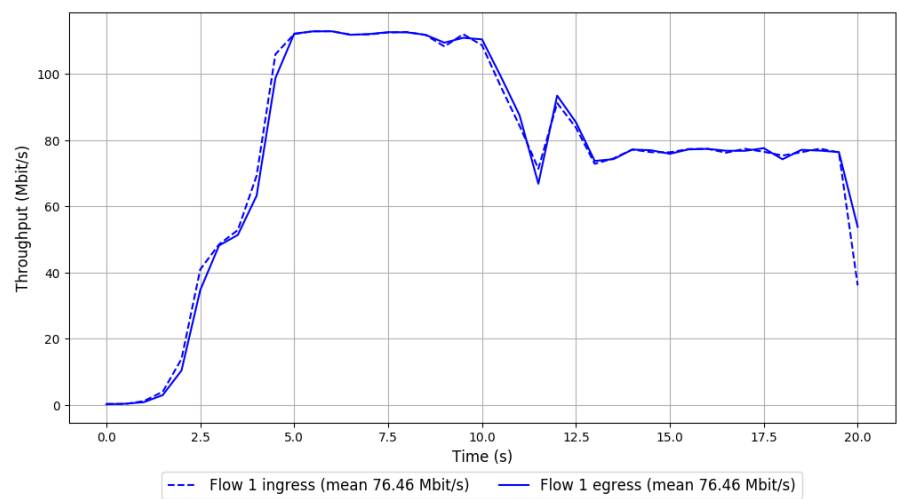


Run 9: Statistics of Copa

Start at: 2017-11-30 08:37:03

End at: 2017-11-30 08:37:33

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2017-11-30 08:48:01

End at: 2017-11-30 08:48:31

Below is generated by plot.py at 2017-11-30 10:06:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 67.91 Mbit/s

95th percentile per-packet one-way delay: 117.335 ms

Loss rate: 0.00%

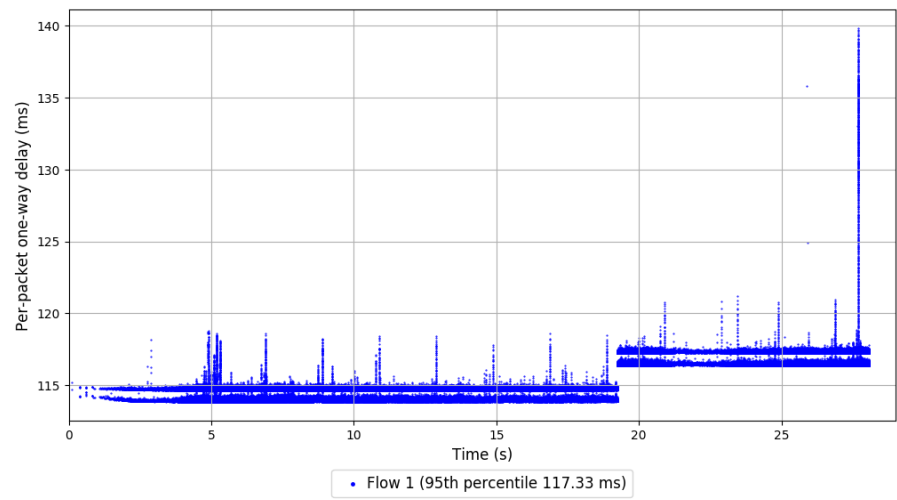
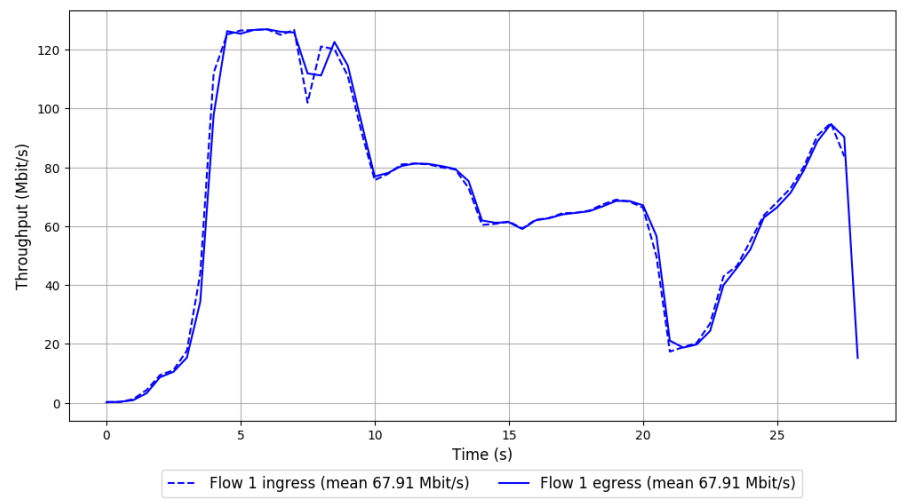
-- Flow 1:

Average throughput: 67.91 Mbit/s

95th percentile per-packet one-way delay: 117.335 ms

Loss rate: 0.00%

Run 10: Report of Copa — Data Link

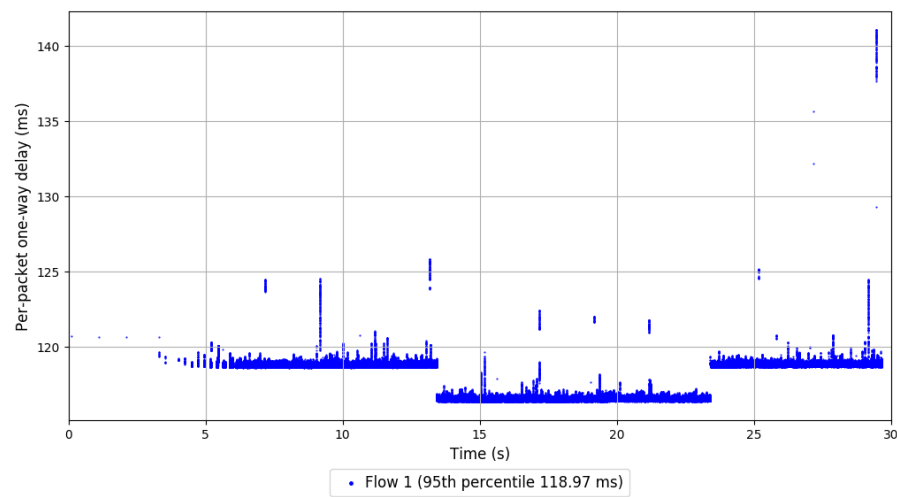
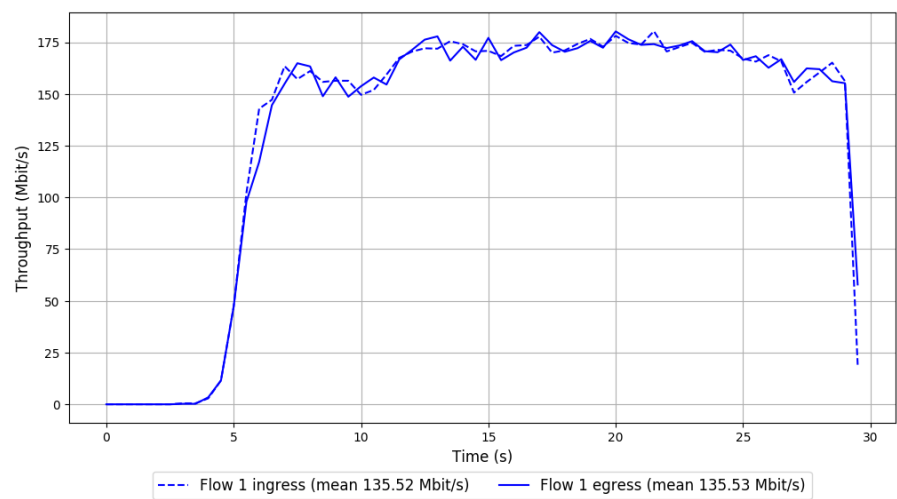


```
Run 1: Statistics of Indigo

Start at: 2017-11-30 07:08:58
End at: 2017-11-30 07:09:28

# Below is generated by plot.py at 2017-11-30 10:06:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 135.53 Mbit/s
95th percentile per-packet one-way delay: 118.970 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 135.53 Mbit/s
95th percentile per-packet one-way delay: 118.970 ms
Loss rate: 0.00%
```


Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2017-11-30 07:19:52

End at: 2017-11-30 07:20:22

Below is generated by plot.py at 2017-11-30 10:07:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 161.03 Mbit/s

95th percentile per-packet one-way delay: 116.815 ms

Loss rate: 0.00%

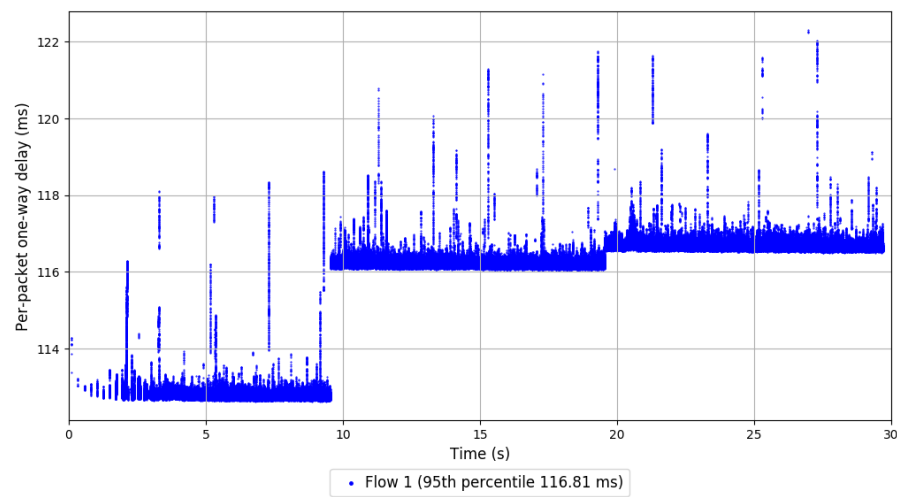
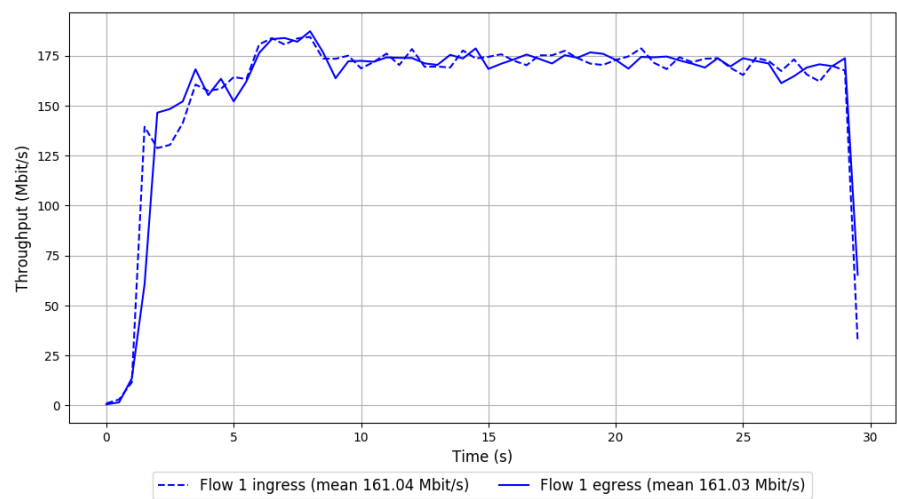
-- Flow 1:

Average throughput: 161.03 Mbit/s

95th percentile per-packet one-way delay: 116.815 ms

Loss rate: 0.00%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2017-11-30 07:31:11

End at: 2017-11-30 07:31:41

Below is generated by plot.py at 2017-11-30 10:07:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 167.48 Mbit/s

95th percentile per-packet one-way delay: 116.056 ms

Loss rate: 0.08%

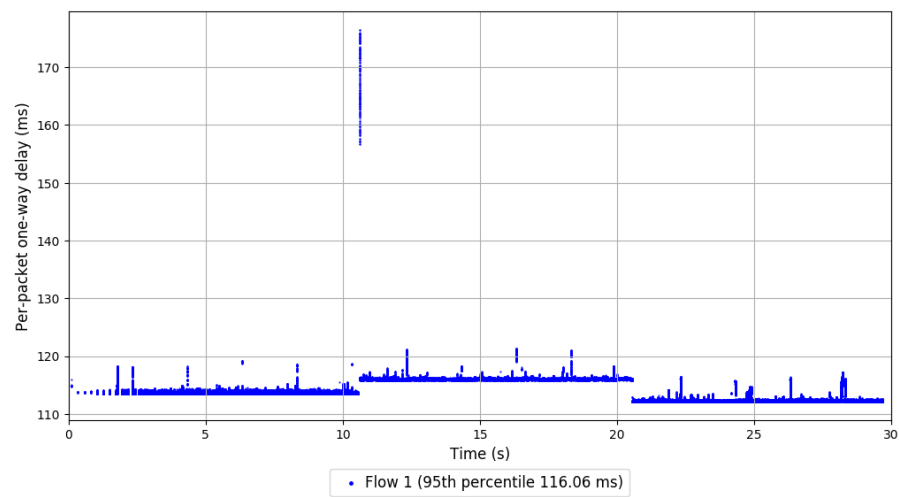
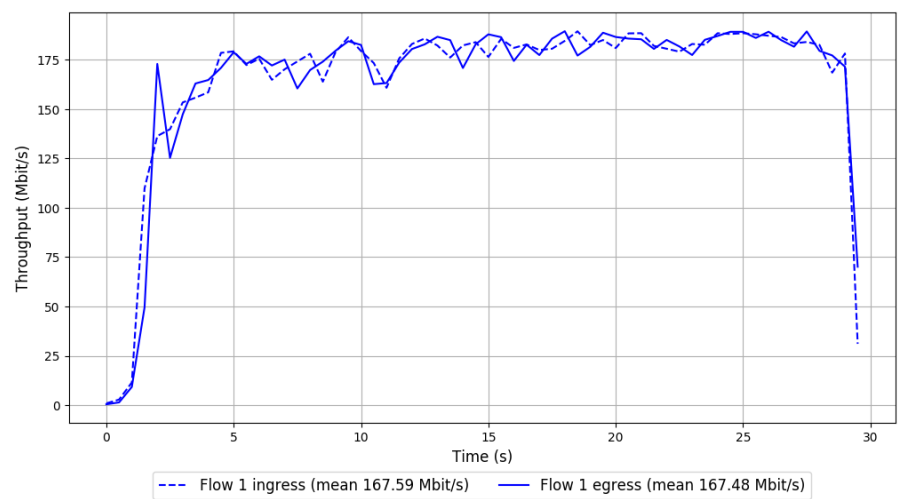
-- Flow 1:

Average throughput: 167.48 Mbit/s

95th percentile per-packet one-way delay: 116.056 ms

Loss rate: 0.08%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2017-11-30 07:42:20

End at: 2017-11-30 07:42:50

Below is generated by plot.py at 2017-11-30 10:07:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 169.74 Mbit/s

95th percentile per-packet one-way delay: 117.675 ms

Loss rate: 0.00%

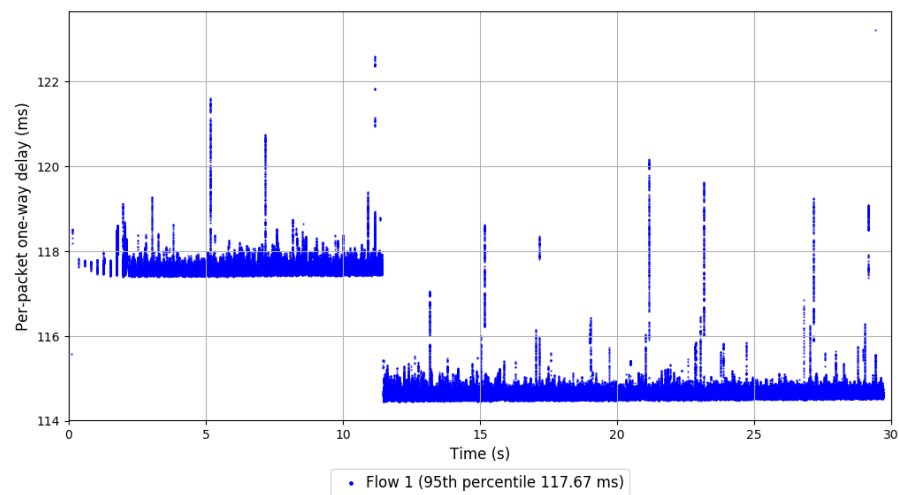
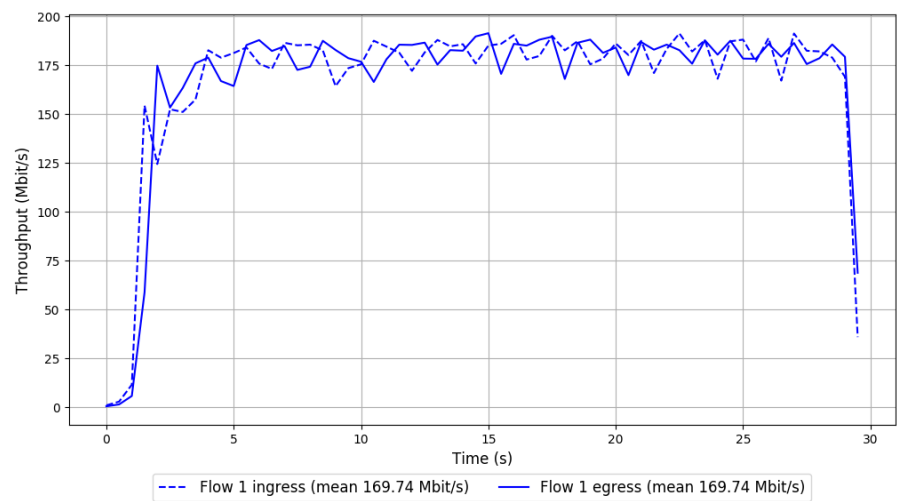
-- Flow 1:

Average throughput: 169.74 Mbit/s

95th percentile per-packet one-way delay: 117.675 ms

Loss rate: 0.00%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2017-11-30 07:53:17

End at: 2017-11-30 07:53:47

Below is generated by plot.py at 2017-11-30 10:07:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 167.46 Mbit/s

95th percentile per-packet one-way delay: 119.228 ms

Loss rate: 0.30%

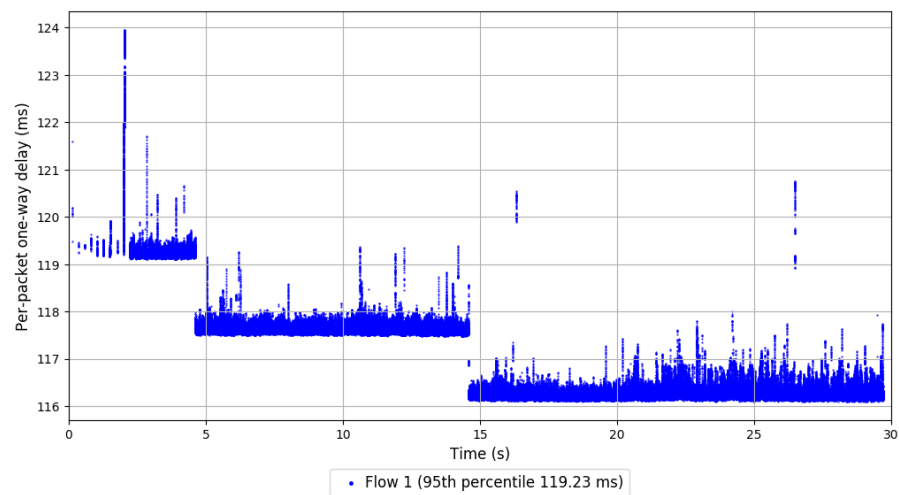
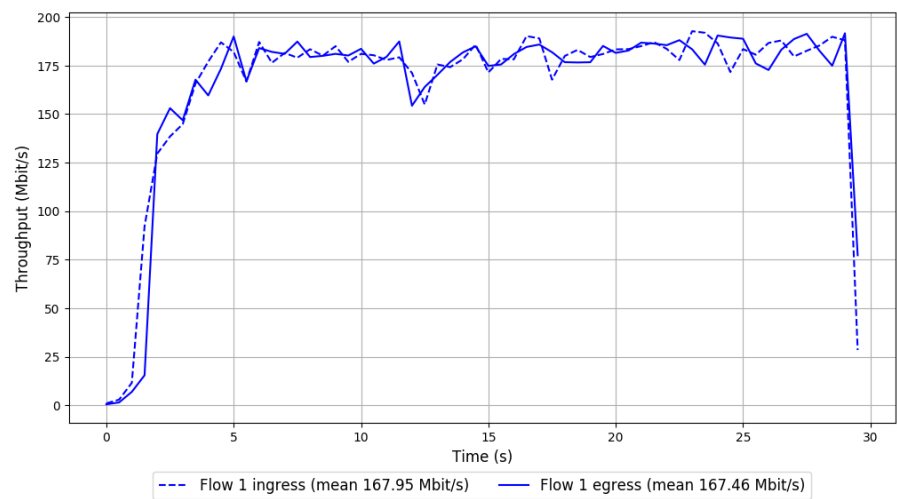
-- Flow 1:

Average throughput: 167.46 Mbit/s

95th percentile per-packet one-way delay: 119.228 ms

Loss rate: 0.30%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2017-11-30 08:04:13

End at: 2017-11-30 08:04:43

Below is generated by plot.py at 2017-11-30 10:08:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 169.95 Mbit/s

95th percentile per-packet one-way delay: 118.484 ms

Loss rate: 0.27%

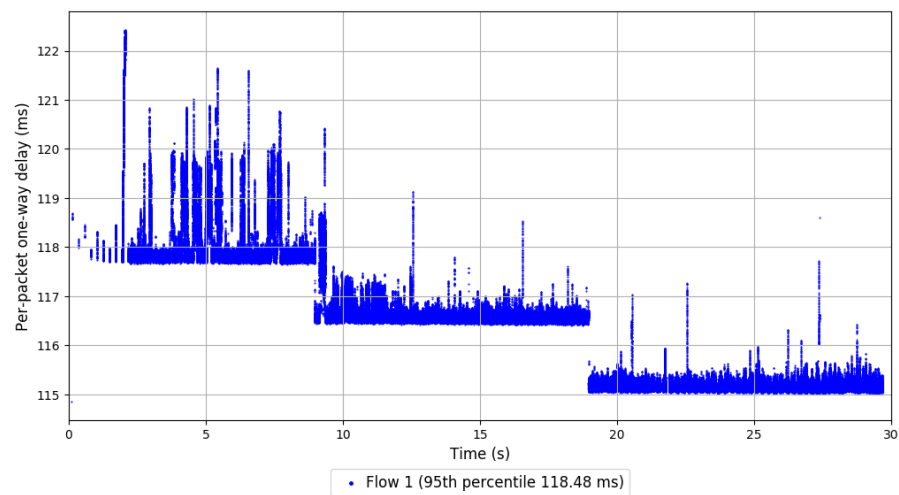
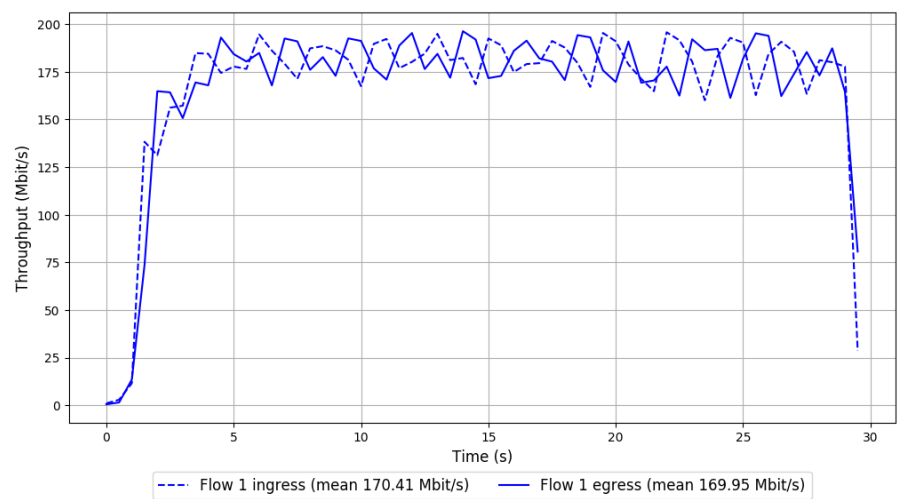
-- Flow 1:

Average throughput: 169.95 Mbit/s

95th percentile per-packet one-way delay: 118.484 ms

Loss rate: 0.27%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2017-11-30 08:15:05

End at: 2017-11-30 08:15:35

Below is generated by plot.py at 2017-11-30 10:08:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 169.02 Mbit/s

95th percentile per-packet one-way delay: 117.211 ms

Loss rate: 0.00%

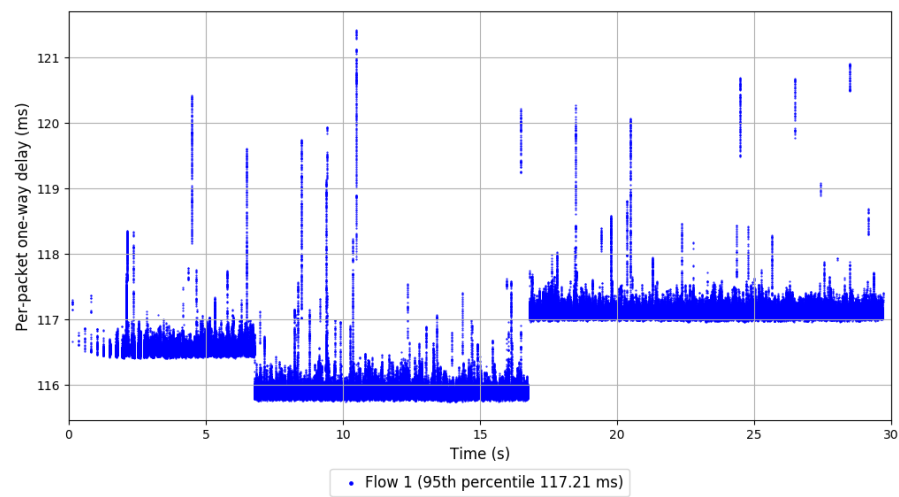
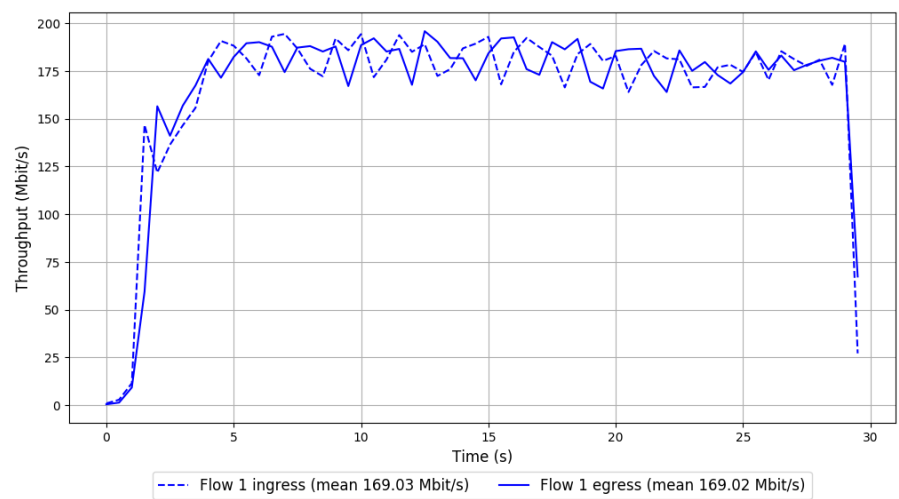
-- Flow 1:

Average throughput: 169.02 Mbit/s

95th percentile per-packet one-way delay: 117.211 ms

Loss rate: 0.00%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2017-11-30 08:26:34

End at: 2017-11-30 08:27:04

Below is generated by plot.py at 2017-11-30 10:09:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 171.72 Mbit/s

95th percentile per-packet one-way delay: 116.566 ms

Loss rate: 0.00%

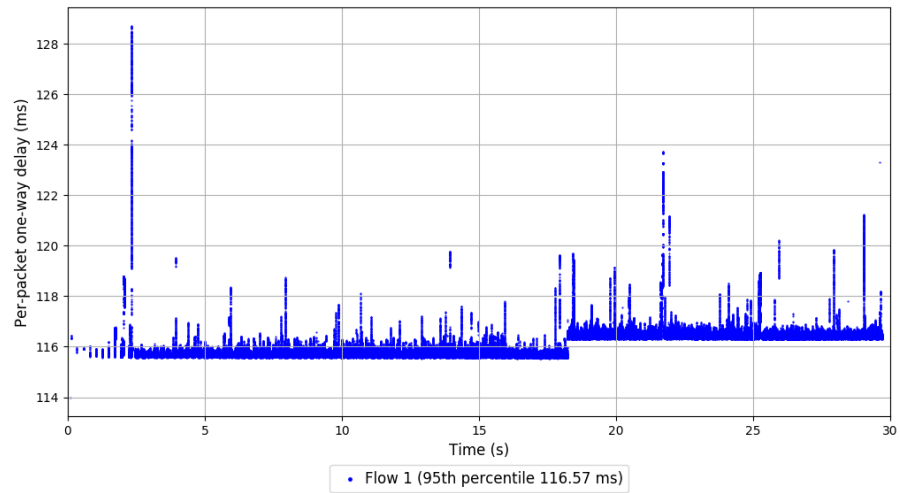
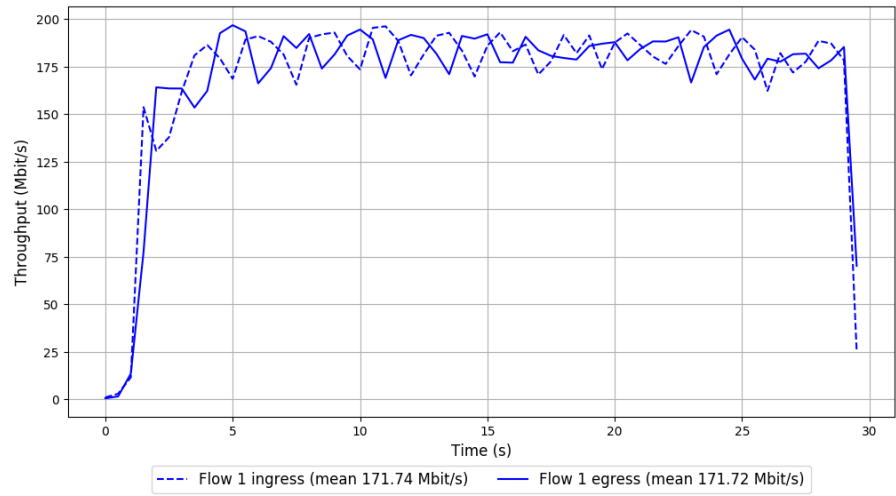
-- Flow 1:

Average throughput: 171.72 Mbit/s

95th percentile per-packet one-way delay: 116.566 ms

Loss rate: 0.00%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2017-11-30 08:37:50

End at: 2017-11-30 08:38:20

Below is generated by plot.py at 2017-11-30 10:10:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 170.64 Mbit/s

95th percentile per-packet one-way delay: 116.037 ms

Loss rate: 0.00%

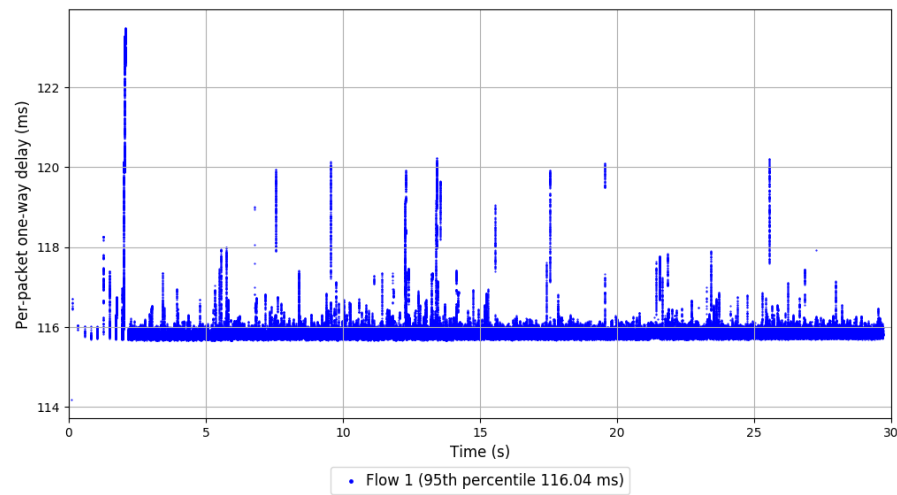
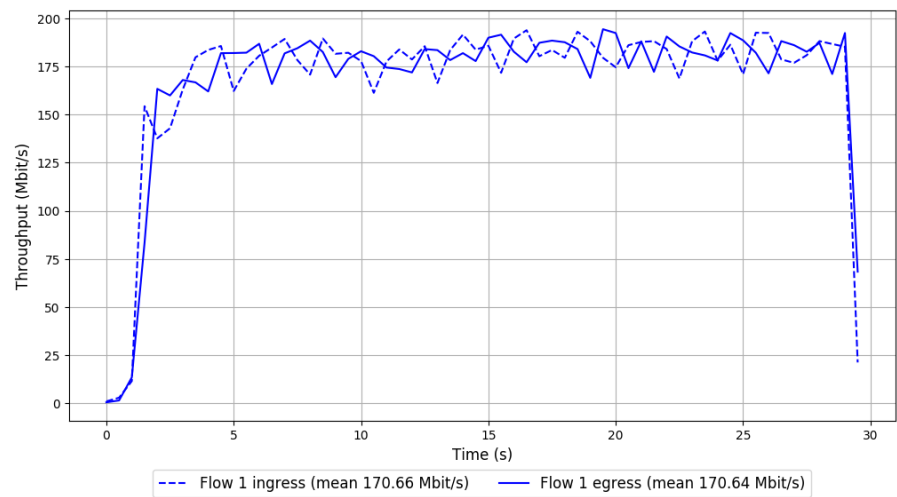
-- Flow 1:

Average throughput: 170.64 Mbit/s

95th percentile per-packet one-way delay: 116.037 ms

Loss rate: 0.00%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2017-11-30 08:48:49

End at: 2017-11-30 08:49:19

Below is generated by plot.py at 2017-11-30 10:10:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 165.64 Mbit/s

95th percentile per-packet one-way delay: 116.926 ms

Loss rate: 0.00%

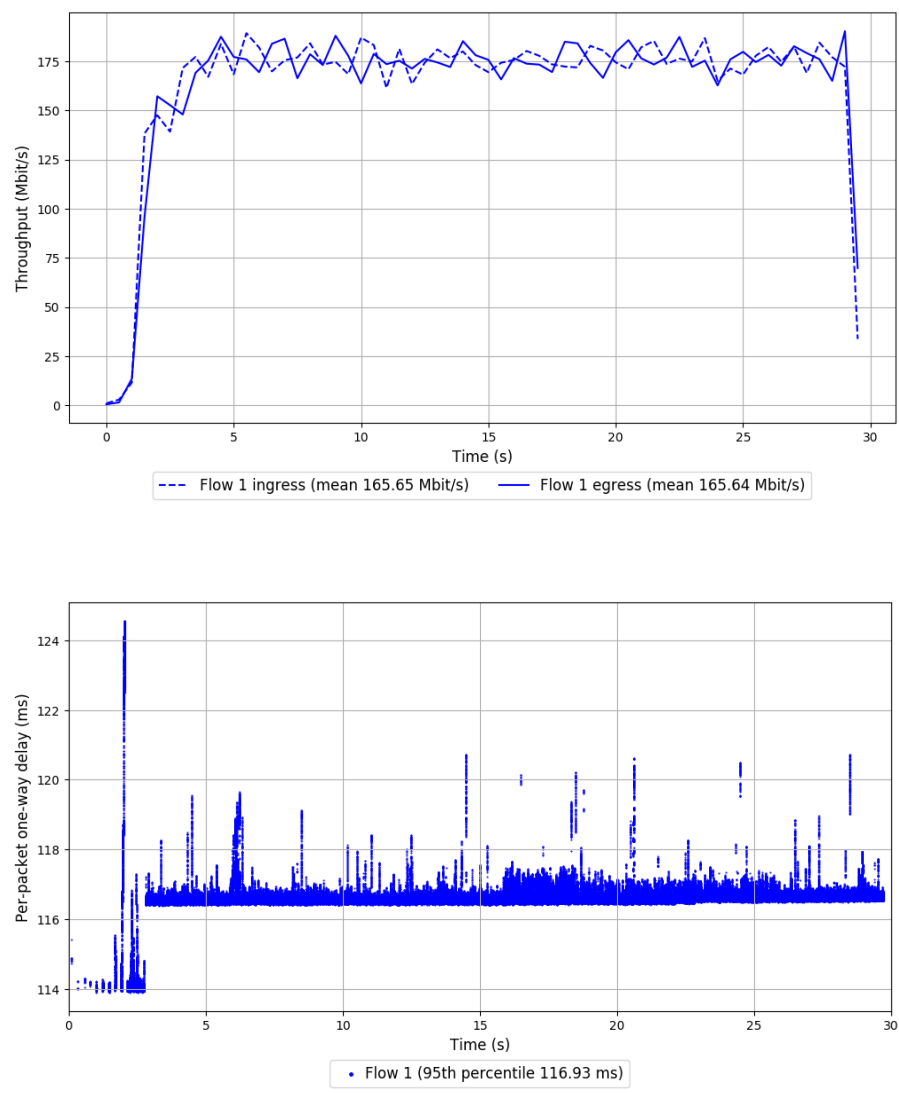
-- Flow 1:

Average throughput: 165.64 Mbit/s

95th percentile per-packet one-way delay: 116.926 ms

Loss rate: 0.00%

Run 10: Report of Indigo — Data Link

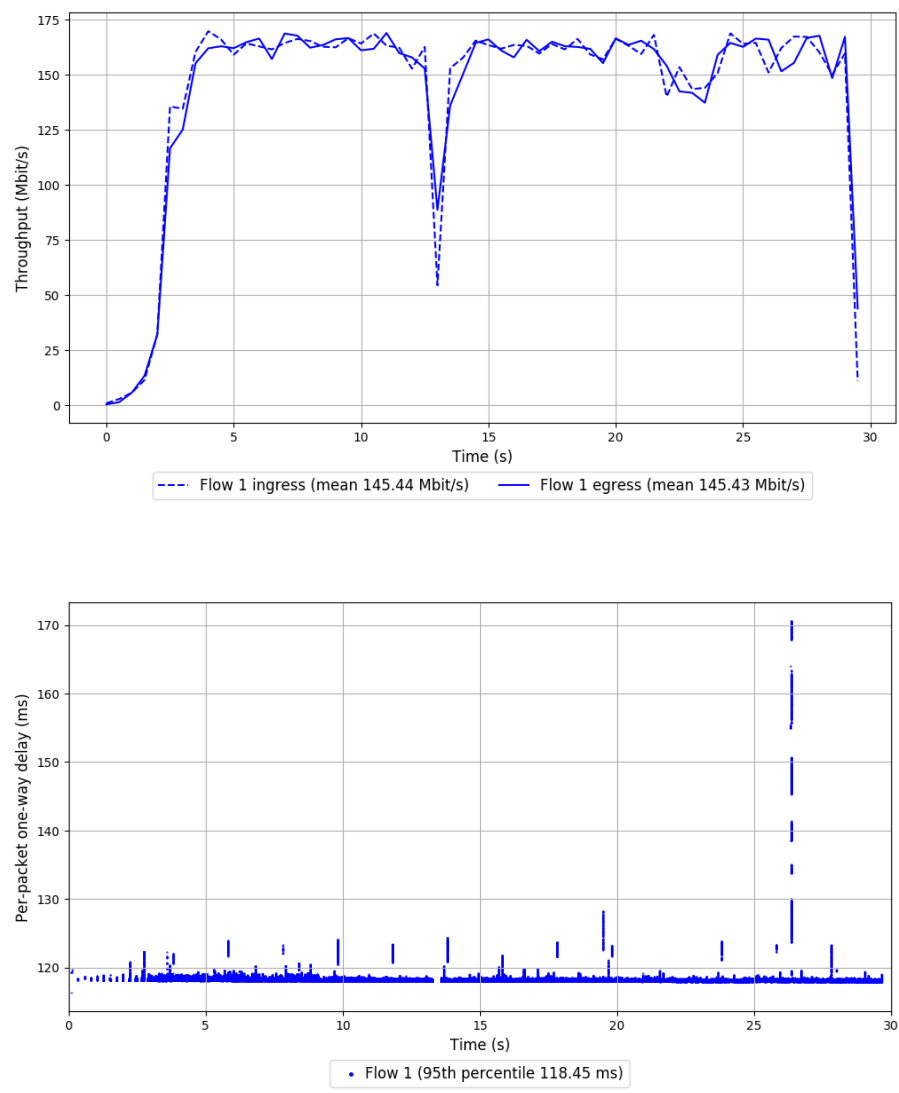


```
Run 1: Statistics of Indigo-calib

Start at: 2017-11-30 07:13:28
End at: 2017-11-30 07:13:58

# Below is generated by plot.py at 2017-11-30 10:10:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 145.43 Mbit/s
95th percentile per-packet one-way delay: 118.447 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 145.43 Mbit/s
95th percentile per-packet one-way delay: 118.447 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo-calib — Data Link

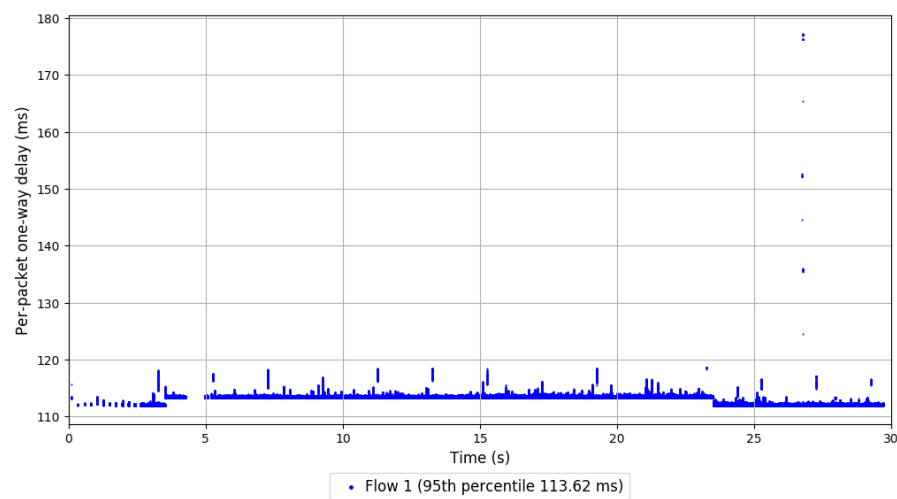
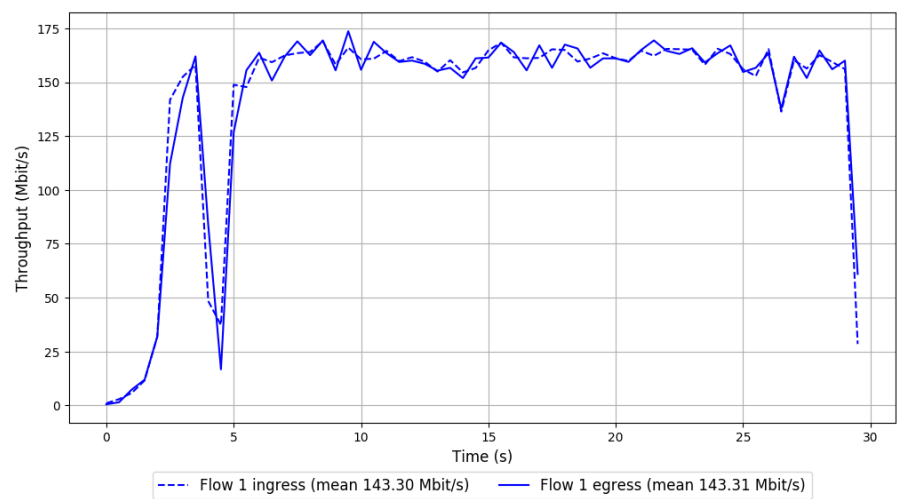


```
Run 2: Statistics of Indigo-calib

Start at: 2017-11-30 07:24:38
End at: 2017-11-30 07:25:08

# Below is generated by plot.py at 2017-11-30 10:10:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 143.31 Mbit/s
95th percentile per-packet one-way delay: 113.621 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 143.31 Mbit/s
95th percentile per-packet one-way delay: 113.621 ms
Loss rate: 0.00%
```

Run 2: Report of Indigo-calib — Data Link



Run 3: Statistics of Indigo-calib

Start at: 2017-11-30 07:35:45

End at: 2017-11-30 07:36:15

Below is generated by plot.py at 2017-11-30 10:11:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 151.34 Mbit/s

95th percentile per-packet one-way delay: 114.520 ms

Loss rate: 0.00%

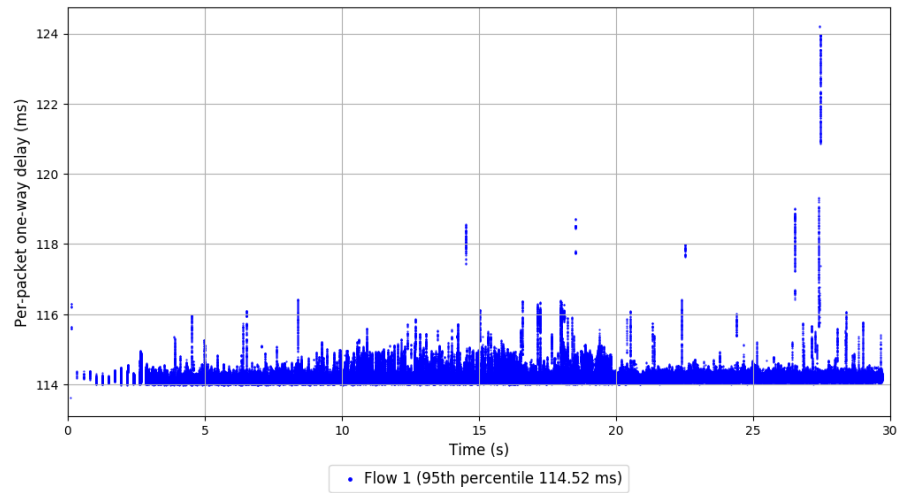
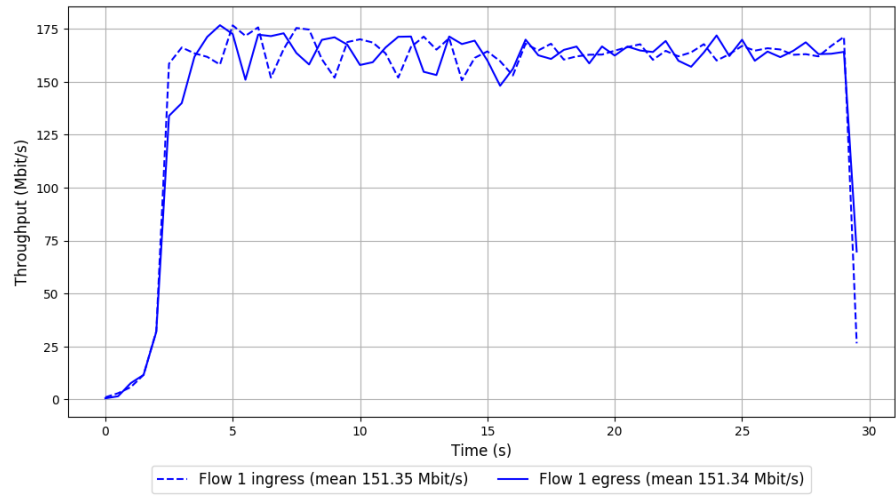
-- Flow 1:

Average throughput: 151.34 Mbit/s

95th percentile per-packet one-way delay: 114.520 ms

Loss rate: 0.00%

Run 3: Report of Indigo-calib — Data Link



Run 4: Statistics of Indigo-calib

Start at: 2017-11-30 07:46:49

End at: 2017-11-30 07:47:19

Below is generated by plot.py at 2017-11-30 10:11:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 149.57 Mbit/s

95th percentile per-packet one-way delay: 118.594 ms

Loss rate: 0.46%

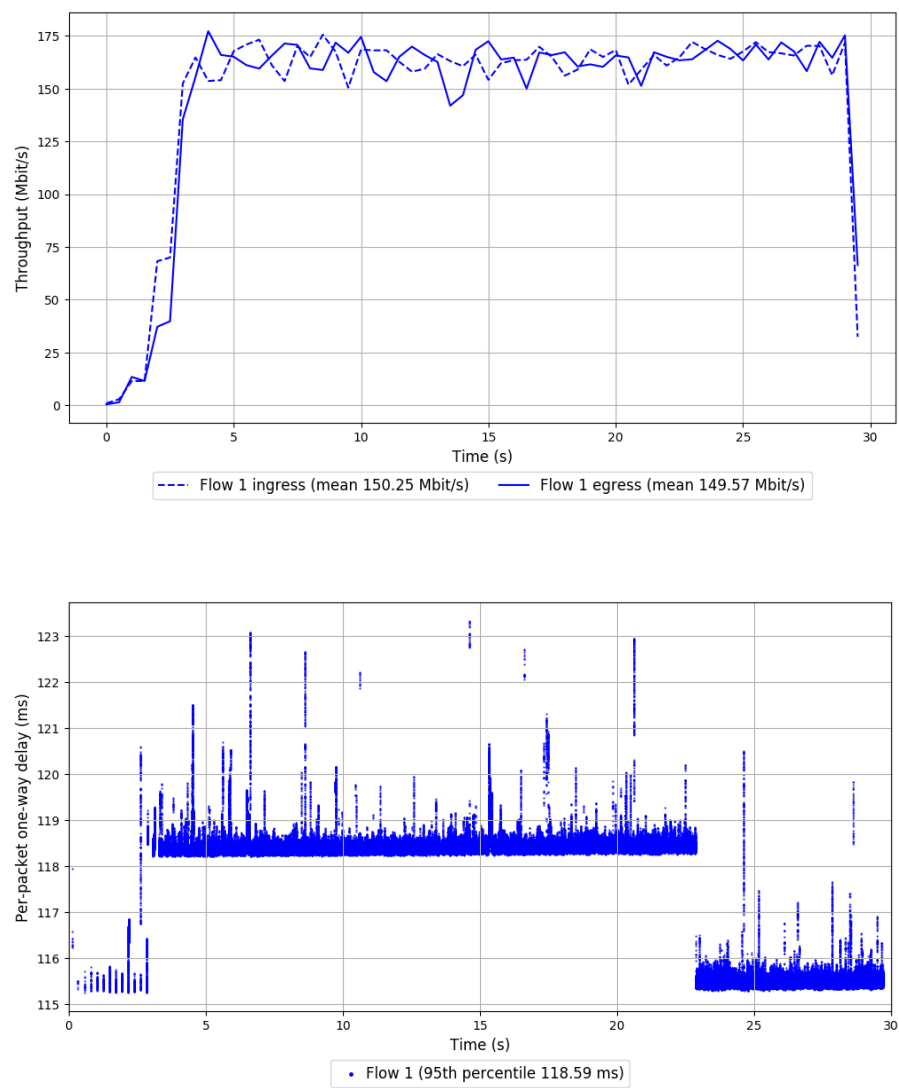
-- Flow 1:

Average throughput: 149.57 Mbit/s

95th percentile per-packet one-way delay: 118.594 ms

Loss rate: 0.46%

Run 4: Report of Indigo-calib — Data Link



Run 5: Statistics of Indigo-calib

Start at: 2017-11-30 07:57:44

End at: 2017-11-30 07:58:14

Below is generated by plot.py at 2017-11-30 10:11:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 154.53 Mbit/s

95th percentile per-packet one-way delay: 118.526 ms

Loss rate: 0.00%

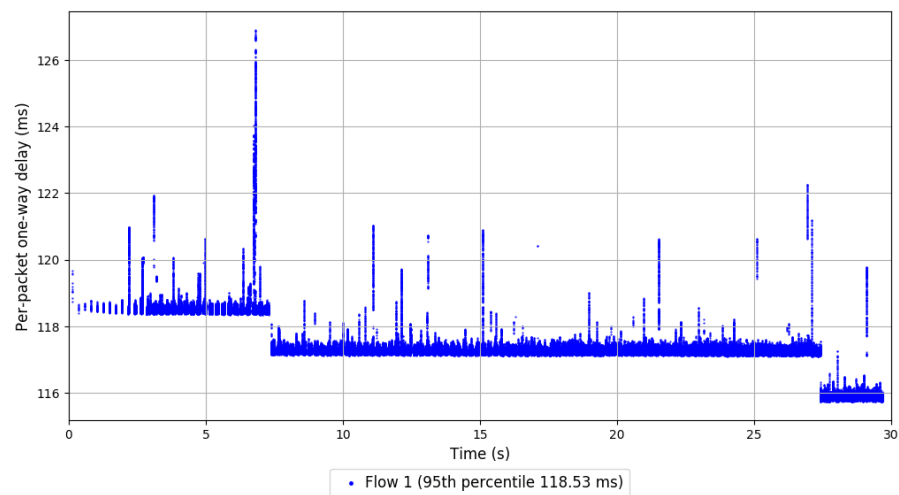
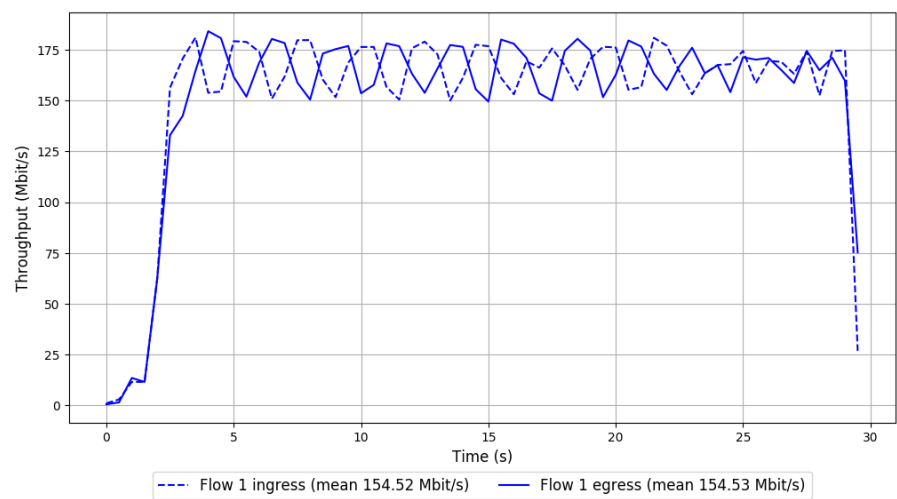
-- Flow 1:

Average throughput: 154.53 Mbit/s

95th percentile per-packet one-way delay: 118.526 ms

Loss rate: 0.00%

Run 5: Report of Indigo-calib — Data Link



Run 6: Statistics of Indigo-calib

Start at: 2017-11-30 08:08:36

End at: 2017-11-30 08:09:06

Below is generated by plot.py at 2017-11-30 10:12:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 152.20 Mbit/s

95th percentile per-packet one-way delay: 116.283 ms

Loss rate: 0.41%

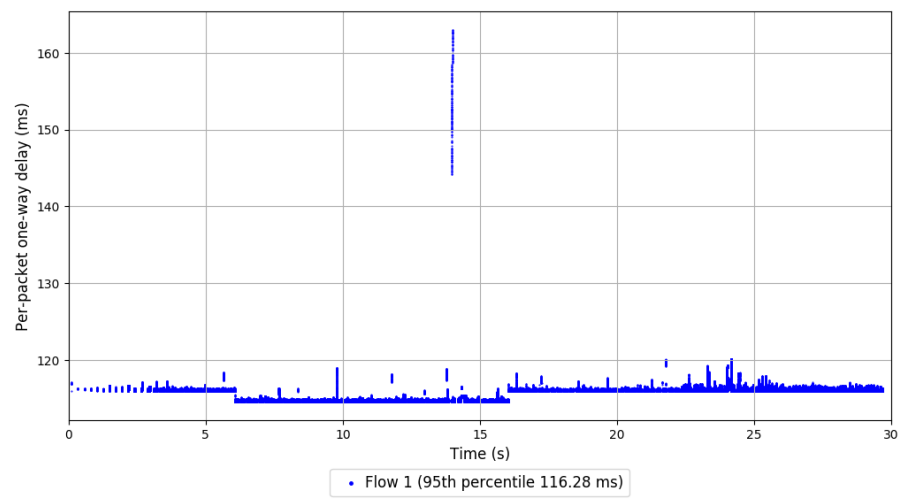
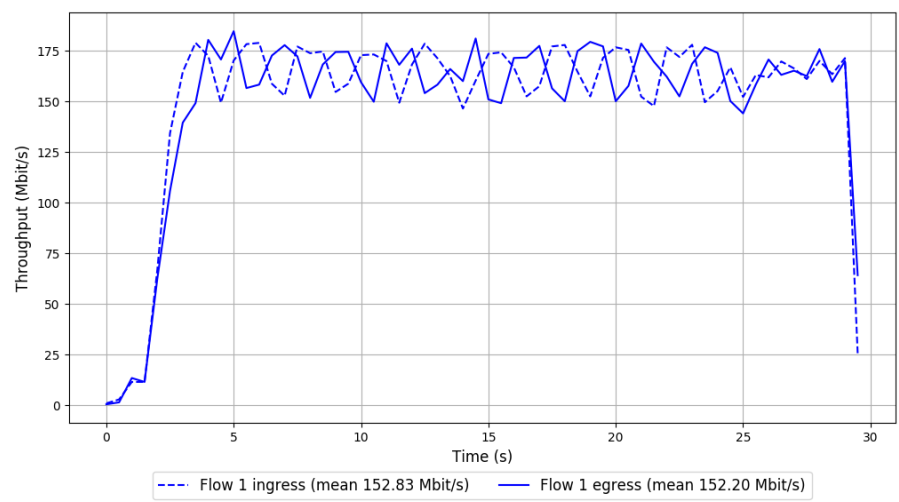
-- Flow 1:

Average throughput: 152.20 Mbit/s

95th percentile per-packet one-way delay: 116.283 ms

Loss rate: 0.41%

Run 6: Report of Indigo-calib — Data Link



Run 7: Statistics of Indigo-calib

Start at: 2017-11-30 08:19:50

End at: 2017-11-30 08:20:20

Below is generated by plot.py at 2017-11-30 10:12:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 150.89 Mbit/s

95th percentile per-packet one-way delay: 116.992 ms

Loss rate: 0.00%

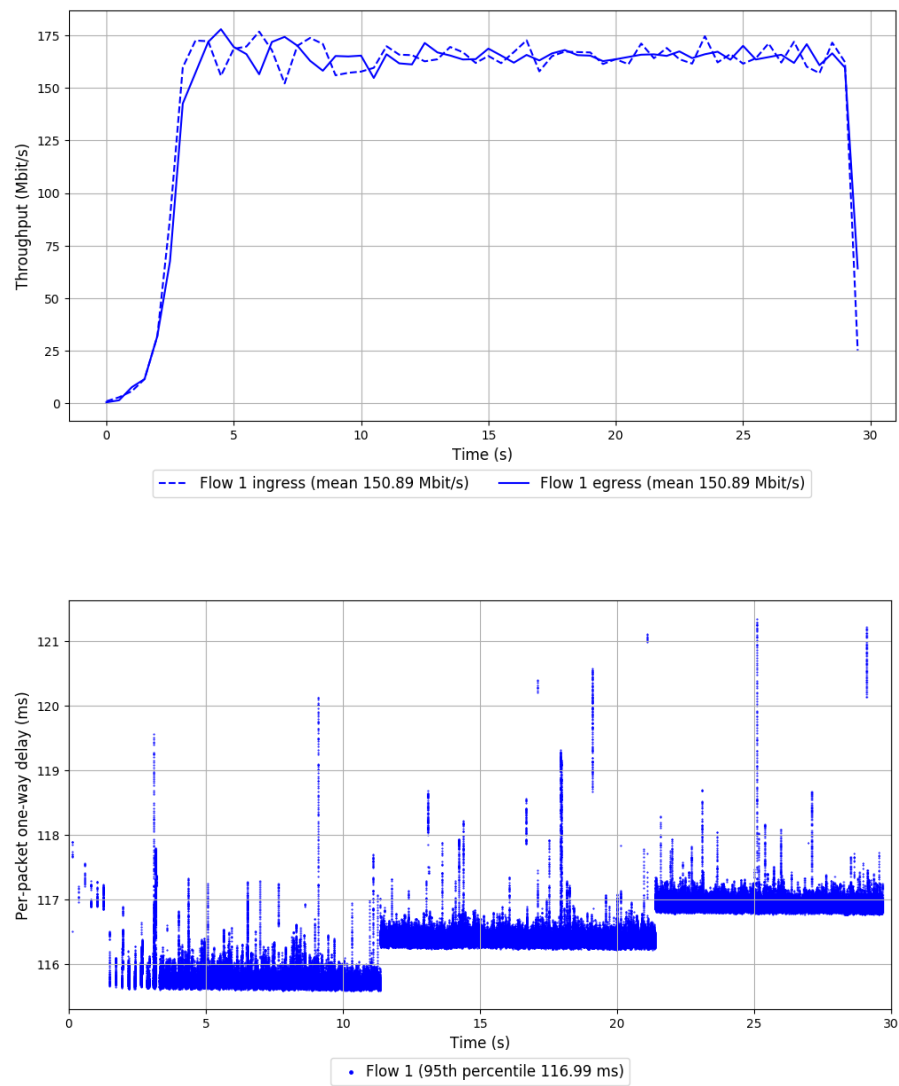
-- Flow 1:

Average throughput: 150.89 Mbit/s

95th percentile per-packet one-way delay: 116.992 ms

Loss rate: 0.00%

Run 7: Report of Indigo-calib — Data Link



Run 8: Statistics of Indigo-calib

Start at: 2017-11-30 08:31:23

End at: 2017-11-30 08:31:53

Below is generated by plot.py at 2017-11-30 10:12:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 150.66 Mbit/s

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

Loss rate: 0.25%

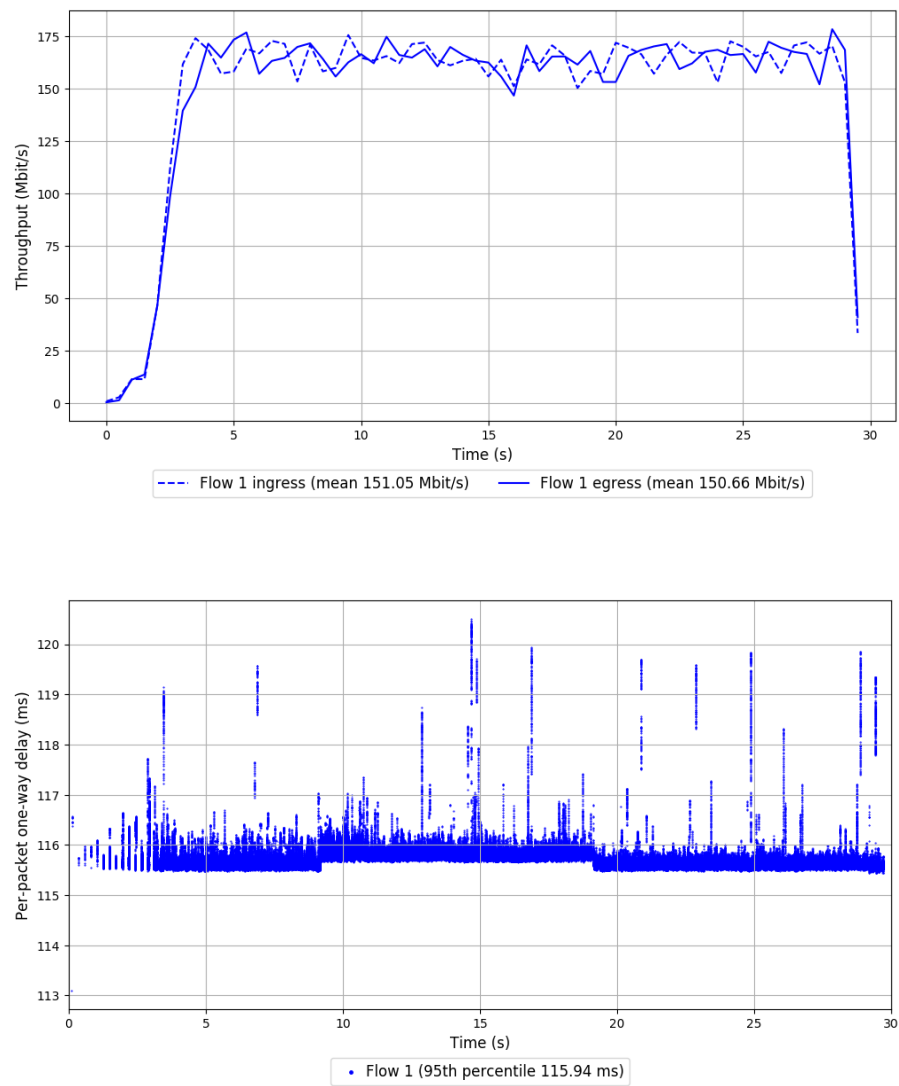
-- Flow 1:

Average throughput: 150.66 Mbit/s

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

Loss rate: 0.25%

Run 8: Report of Indigo-calib — Data Link



Run 9: Statistics of Indigo-calib

Start at: 2017-11-30 08:42:18

End at: 2017-11-30 08:42:48

Below is generated by plot.py at 2017-11-30 10:12:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 148.53 Mbit/s

95th percentile per-packet one-way delay: 116.169 ms

Loss rate: 0.00%

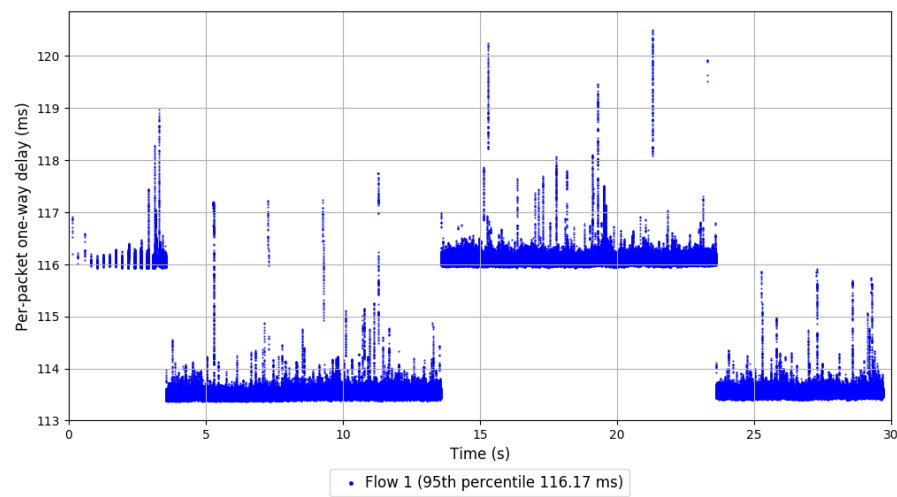
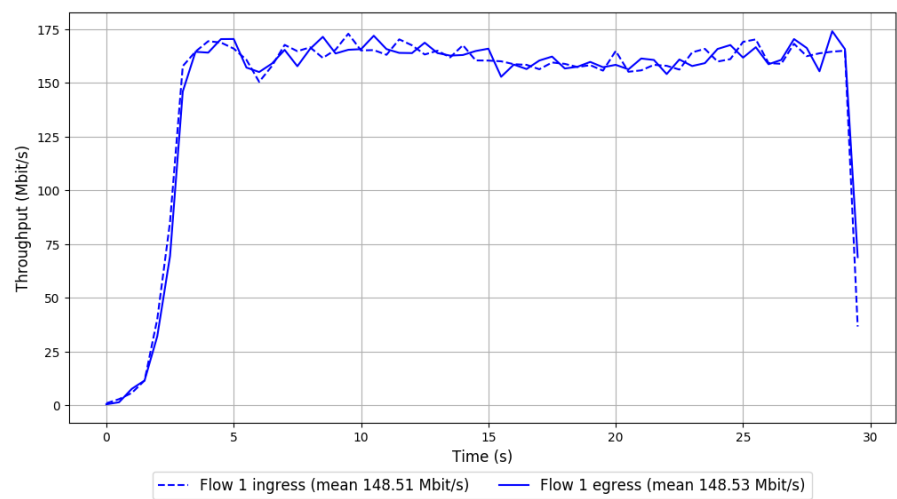
-- Flow 1:

Average throughput: 148.53 Mbit/s

95th percentile per-packet one-way delay: 116.169 ms

Loss rate: 0.00%

Run 9: Report of Indigo-calib — Data Link



Run 10: Statistics of Indigo-calib

Start at: 2017-11-30 08:53:16

End at: 2017-11-30 08:53:46

Below is generated by plot.py at 2017-11-30 10:12:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 150.74 Mbit/s

95th percentile per-packet one-way delay: 115.673 ms

Loss rate: 0.16%

-- Flow 1:

Average throughput: 150.74 Mbit/s

95th percentile per-packet one-way delay: 115.673 ms

Loss rate: 0.16%

Run 10: Report of Indigo-calib — Data Link

