

Pantheon Report

Generated at 2018-01-02 03:38:40 (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.

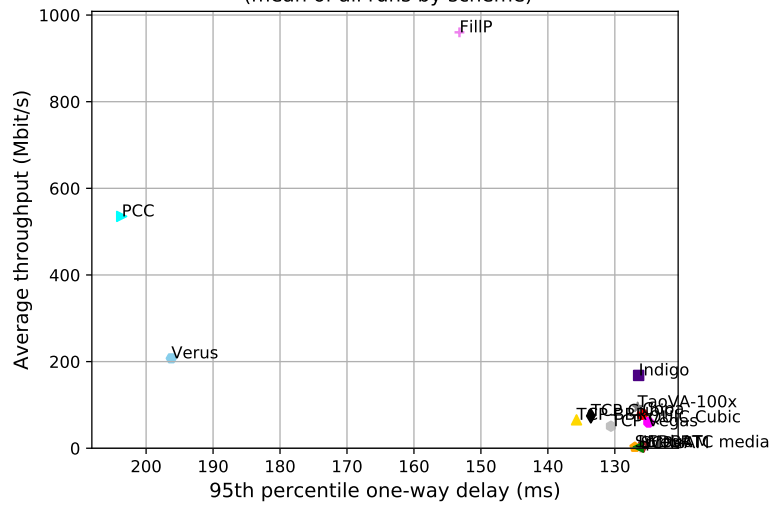
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

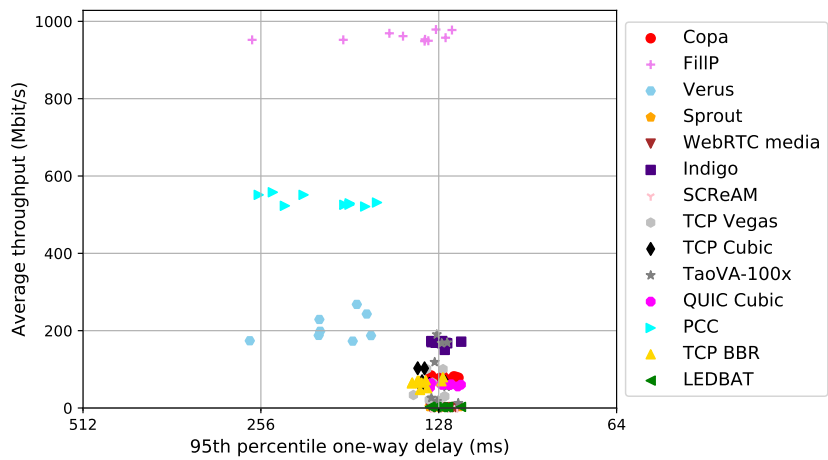
Git summary:

```
branch: master @ 904a5750834816b1e46a2c86405d707788d27c16
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/llp @ dcaef6b00654e660f73f7ed679d2eab61ce08639
third_party/genericCC @ 80b516c448f795fd6e9675f7177b69c622f07da8
third_party/indigo @ b19f3730105f9aa95452552af924e3719b03cc55
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ fb1053193c2861da659ba9013db26744ccfcf993
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/proto-quick @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaeab30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/webRTC @ a488197ddd041ace68a42849b2540ad834825f42
```

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



test from GCE London Ethernet to GCE Tokyo Ethernet, 10 runs of 30s each per scheme



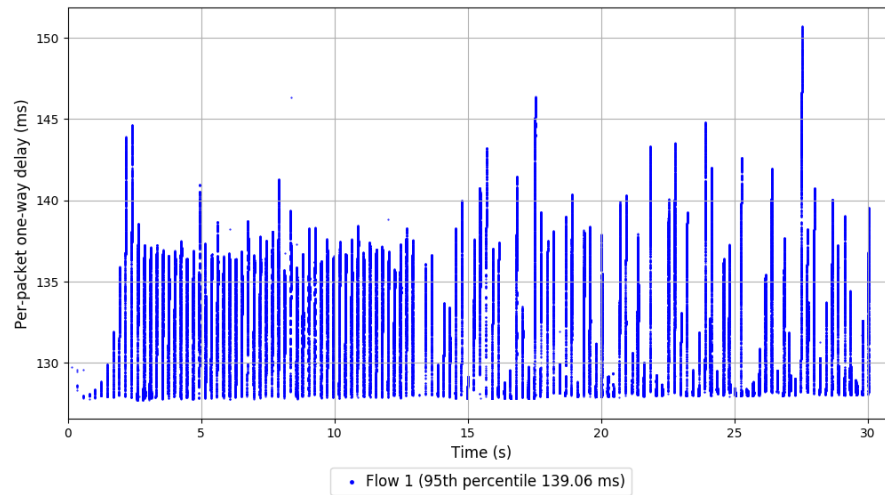
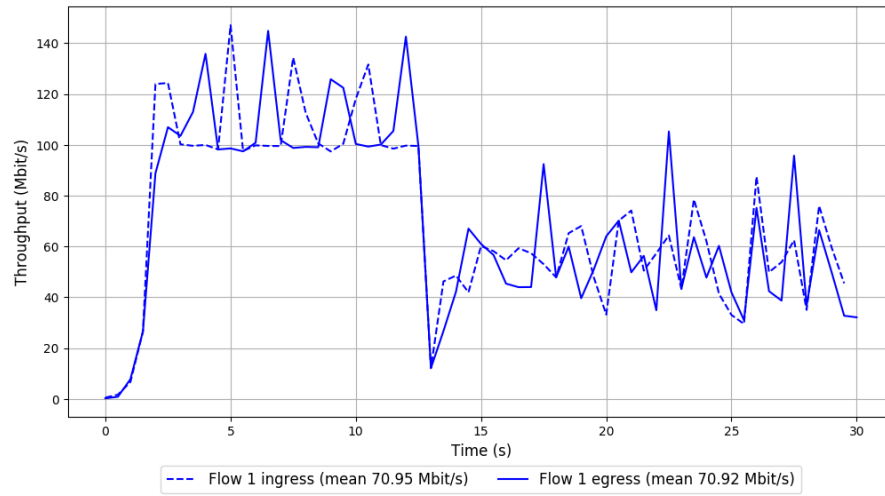
scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	65.62	135.72	0.00
TCP Cubic	8	74.68	133.58	0.03
LEDBAT	10	2.43	126.51	0.00
PCC	9	535.19	203.64	1.32
QUIC Cubic	9	59.79	124.96	0.00
SCReAM	10	0.21	126.13	0.01
WebRTC media	10	2.15	125.69	0.00
Sprout	10	2.55	127.01	0.12
TaoVA-100x	8	94.62	126.60	0.00
TCP Vegas	10	50.83	130.58	0.10
Verus	8	207.56	196.24	1.14
Copa	10	78.45	125.88	0.00
FillP	10	960.12	153.20	0.09
Indigo	10	168.08	126.44	0.01

```
Run 1: Statistics of TCP BBR

Start at: 2018-01-01 23:46:37
End at: 2018-01-01 23:47:07

# Below is generated by plot.py at 2018-01-02 02:48:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 70.92 Mbit/s
95th percentile per-packet one-way delay: 139.064 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 70.92 Mbit/s
95th percentile per-packet one-way delay: 139.064 ms
Loss rate: 0.00%
```


Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-01-01 23:58:57

End at: 2018-01-01 23:59:27

Below is generated by plot.py at 2018-01-02 02:48:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.52 Mbit/s

95th percentile per-packet one-way delay: 142.147 ms

Loss rate: 0.02%

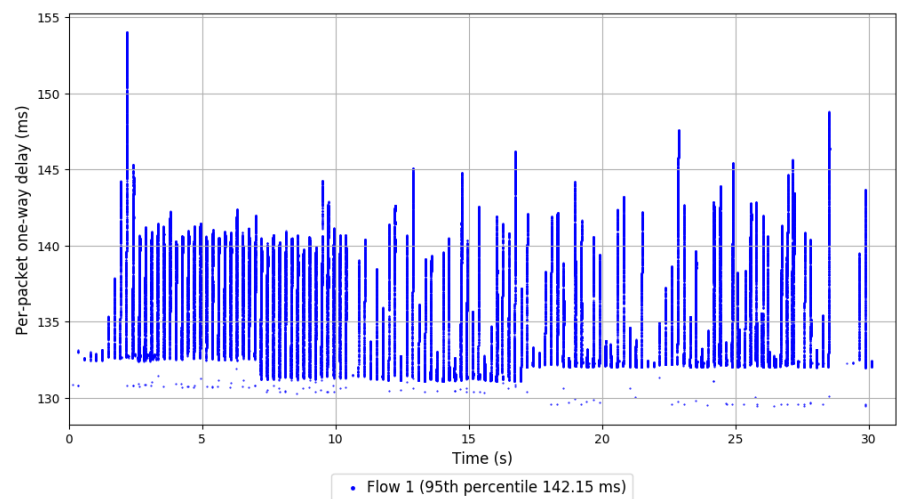
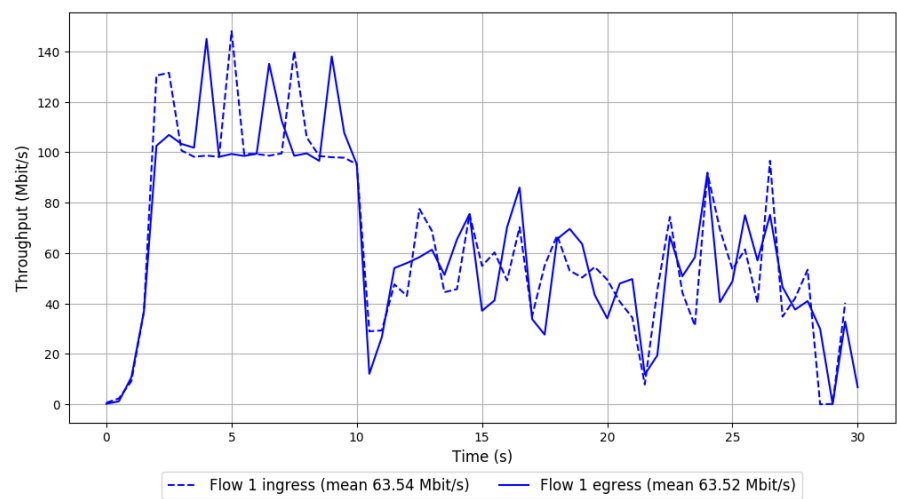
-- Flow 1:

Average throughput: 63.52 Mbit/s

95th percentile per-packet one-way delay: 142.147 ms

Loss rate: 0.02%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-01-02 00:11:09

End at: 2018-01-02 00:11:39

Below is generated by plot.py at 2018-01-02 02:48:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 66.19 Mbit/s

95th percentile per-packet one-way delay: 141.915 ms

Loss rate: 0.00%

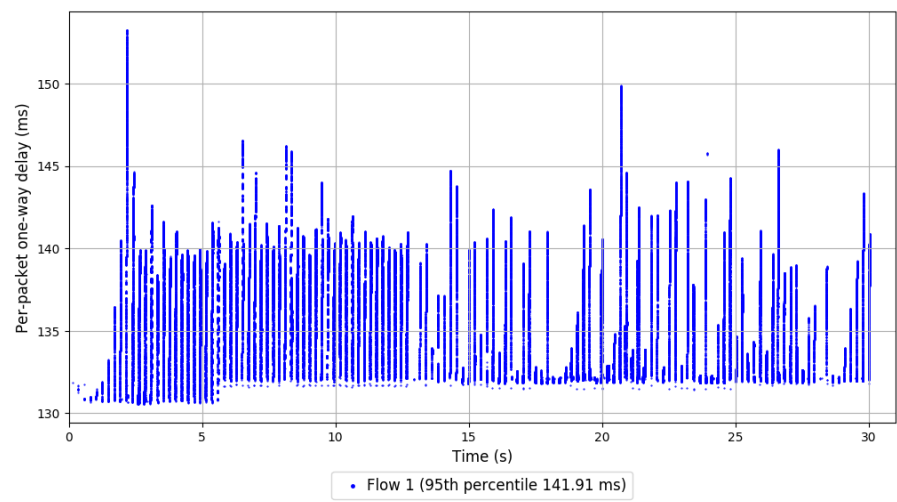
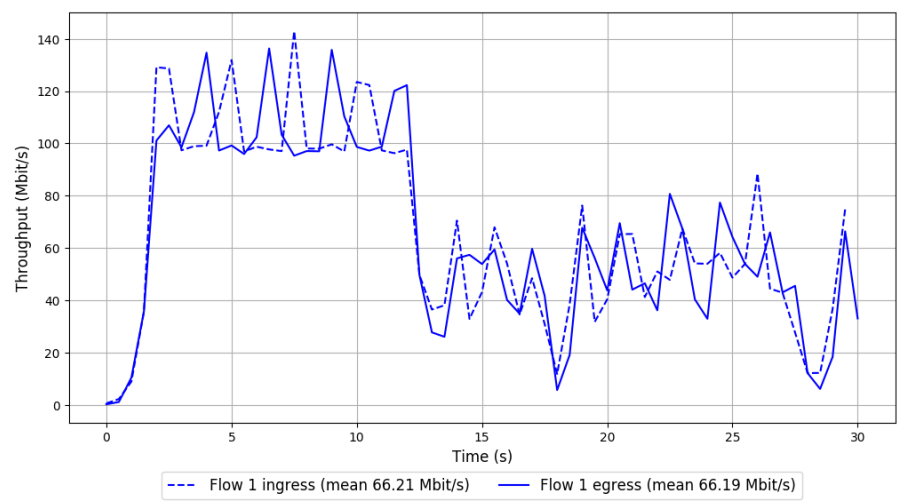
-- Flow 1:

Average throughput: 66.19 Mbit/s

95th percentile per-packet one-way delay: 141.915 ms

Loss rate: 0.00%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-01-02 00:23:27

End at: 2018-01-02 00:23:57

Below is generated by plot.py at 2018-01-02 02:48:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 65.65 Mbit/s

95th percentile per-packet one-way delay: 136.823 ms

Loss rate: 0.00%

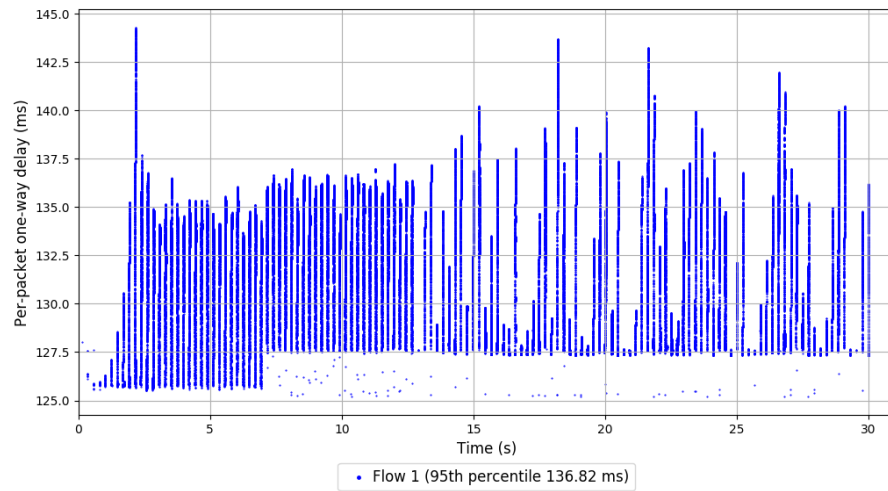
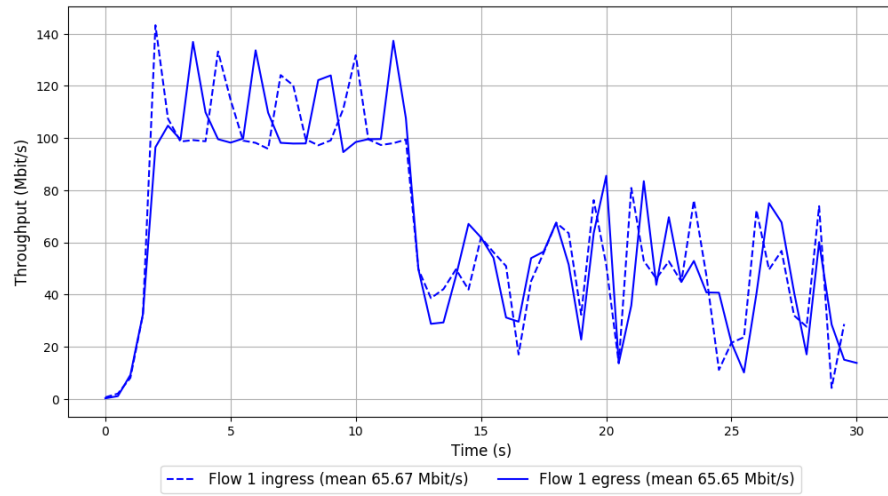
-- Flow 1:

Average throughput: 65.65 Mbit/s

95th percentile per-packet one-way delay: 136.823 ms

Loss rate: 0.00%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-01-02 00:35:44

End at: 2018-01-02 00:36:14

Below is generated by plot.py at 2018-01-02 02:48:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 46.75 Mbit/s

95th percentile per-packet one-way delay: 137.710 ms

Loss rate: 0.00%

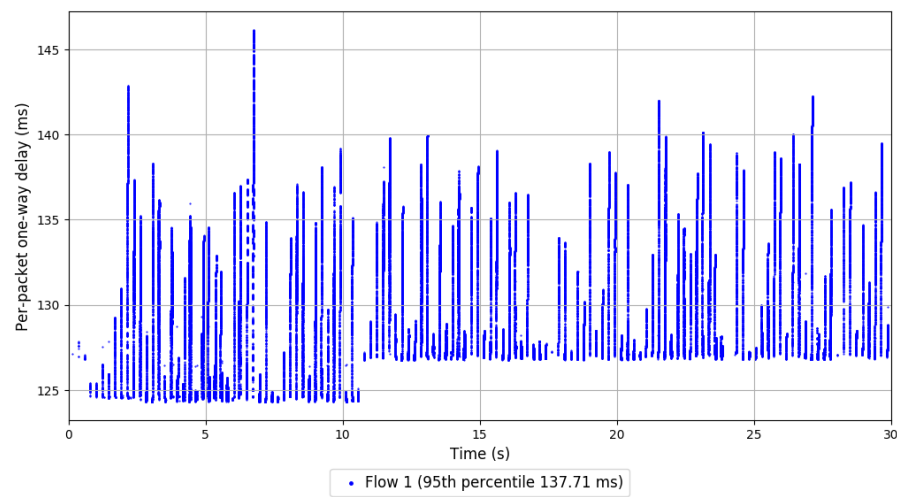
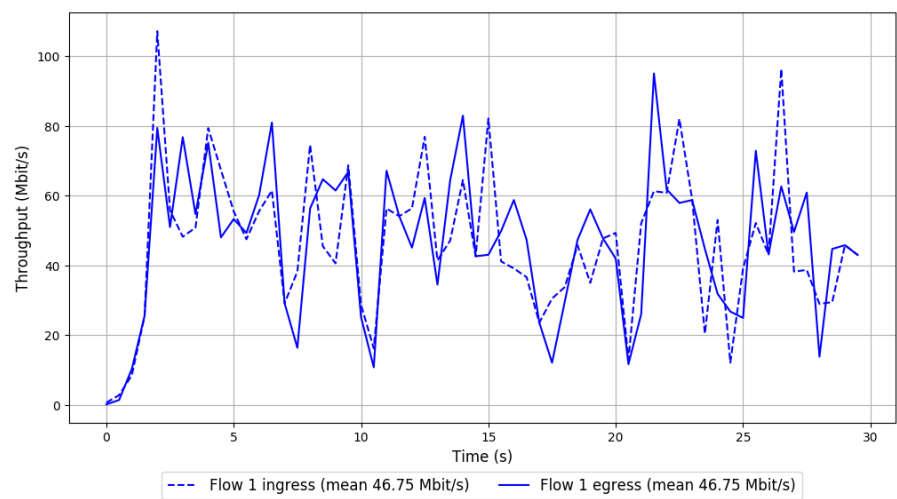
-- Flow 1:

Average throughput: 46.75 Mbit/s

95th percentile per-packet one-way delay: 137.710 ms

Loss rate: 0.00%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-01-02 00:48:14

End at: 2018-01-02 00:48:44

Below is generated by plot.py at 2018-01-02 02:48:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 70.94 Mbit/s

95th percentile per-packet one-way delay: 138.355 ms

Loss rate: 0.00%

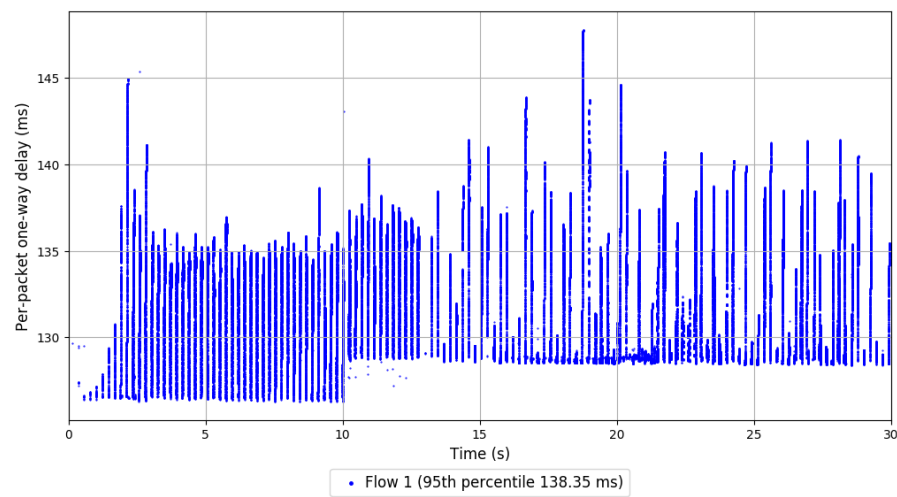
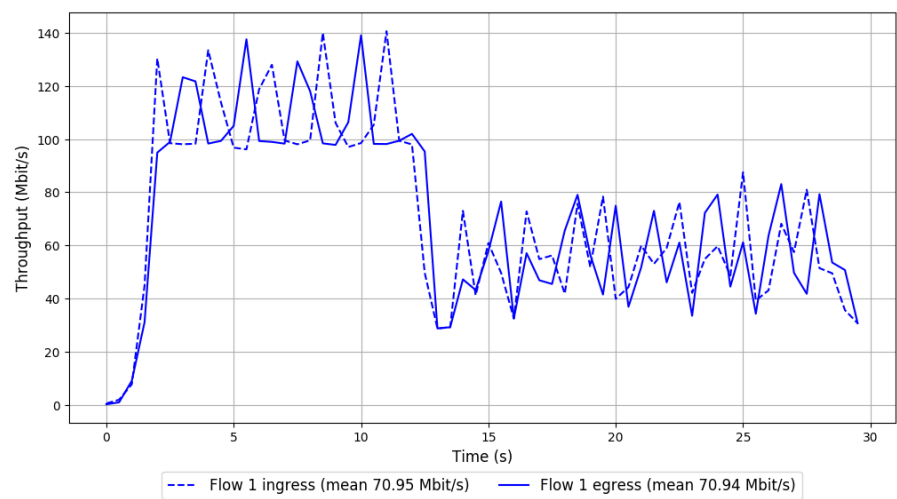
-- Flow 1:

Average throughput: 70.94 Mbit/s

95th percentile per-packet one-way delay: 138.355 ms

Loss rate: 0.00%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-01-02 01:00:44

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

Below is generated by plot.py at 2018-01-02 02:48:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.89 Mbit/s

95th percentile per-packet one-way delay: 134.671 ms

Loss rate: 0.00%

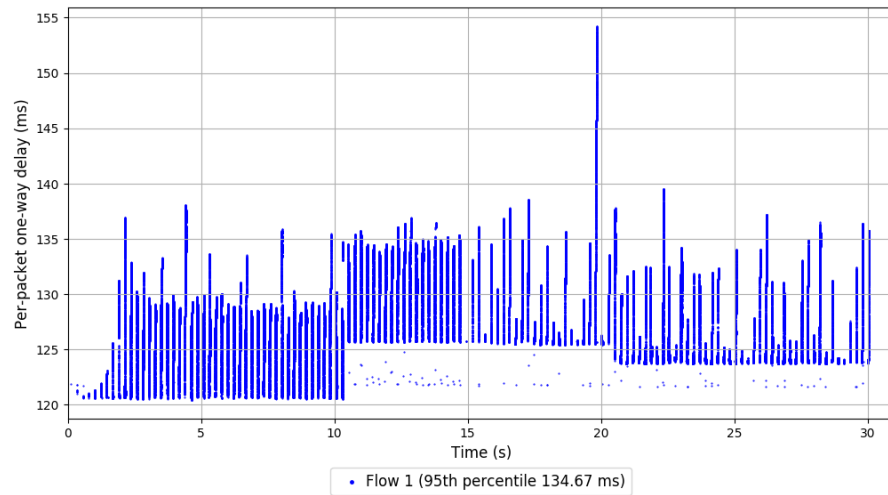
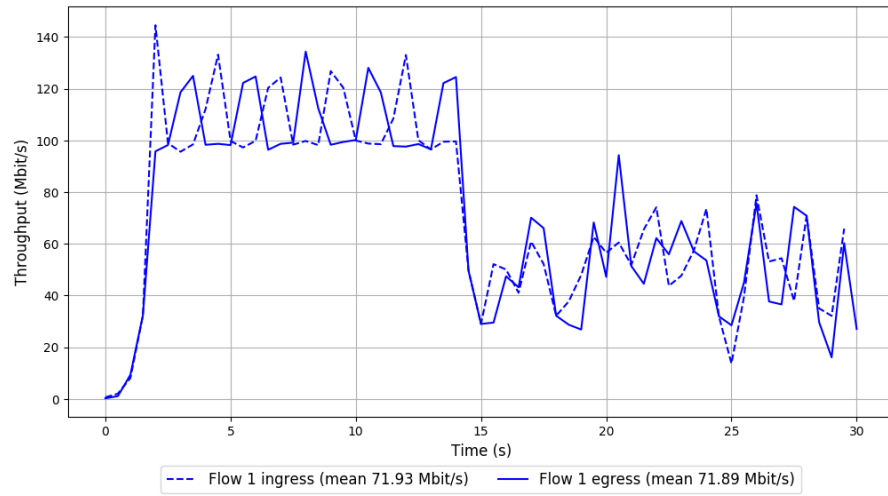
-- Flow 1:

Average throughput: 71.89 Mbit/s

95th percentile per-packet one-way delay: 134.671 ms

Loss rate: 0.00%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-01-02 01:13:06

End at: 2018-01-02 01:13:36

Below is generated by plot.py at 2018-01-02 02:48:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 51.41 Mbit/s

95th percentile per-packet one-way delay: 133.930 ms

Loss rate: 0.00%

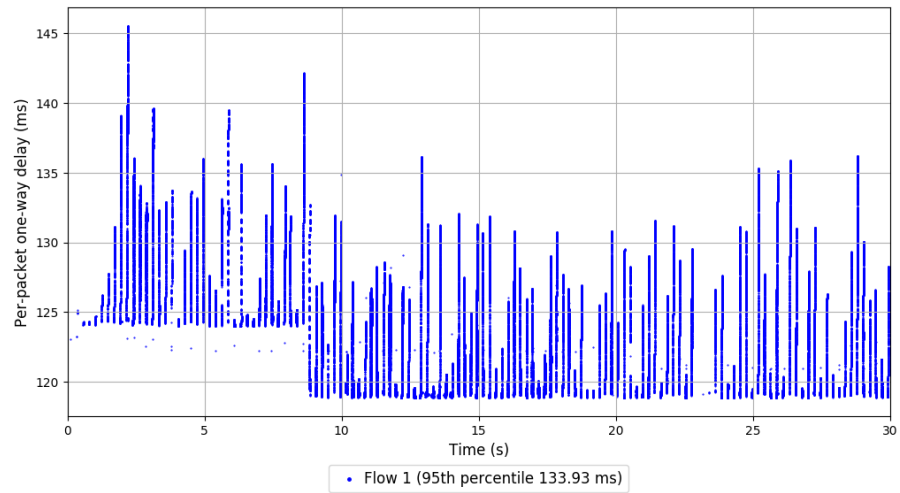
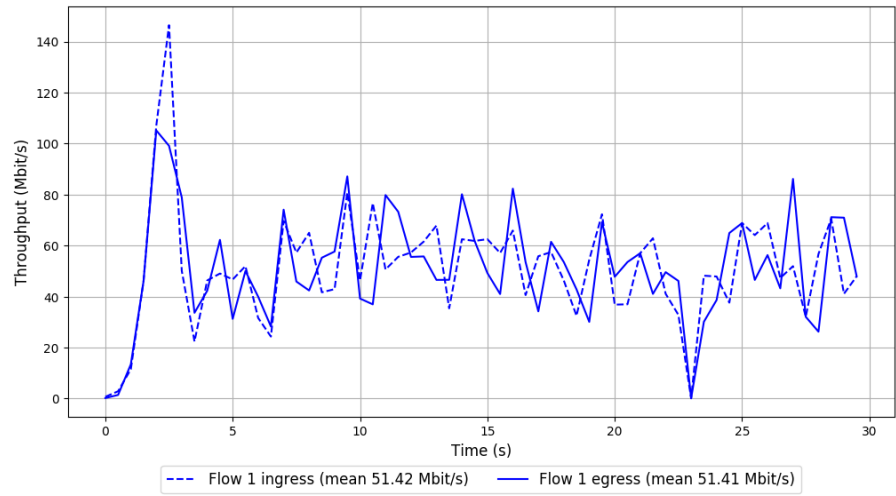
-- Flow 1:

Average throughput: 51.41 Mbit/s

95th percentile per-packet one-way delay: 133.930 ms

Loss rate: 0.00%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-01-02 01:25:12

End at: 2018-01-02 01:25:42

Below is generated by plot.py at 2018-01-02 02:49:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.60 Mbit/s

95th percentile per-packet one-way delay: 125.942 ms

Loss rate: 0.00%

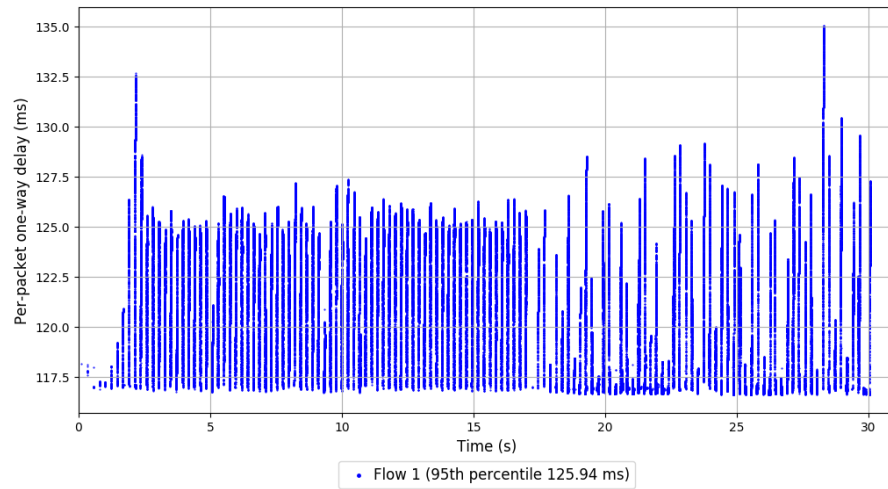
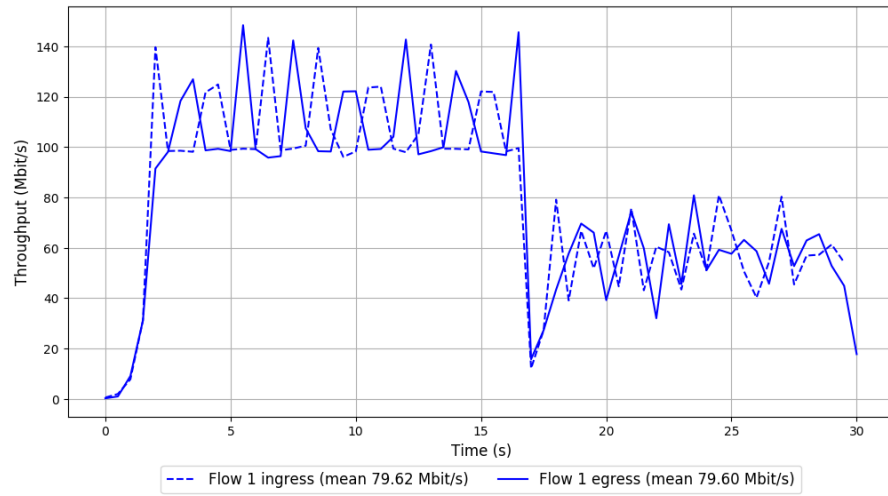
-- Flow 1:

Average throughput: 79.60 Mbit/s

95th percentile per-packet one-way delay: 125.942 ms

Loss rate: 0.00%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-01-02 01:37:40

End at: 2018-01-02 01:38:10

Below is generated by plot.py at 2018-01-02 02:49:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.32 Mbit/s

95th percentile per-packet one-way delay: 126.653 ms

Loss rate: 0.01%

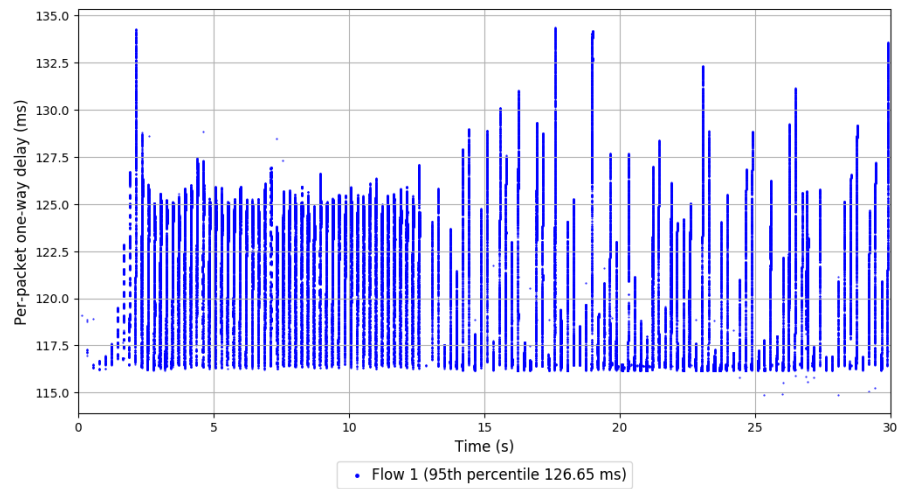
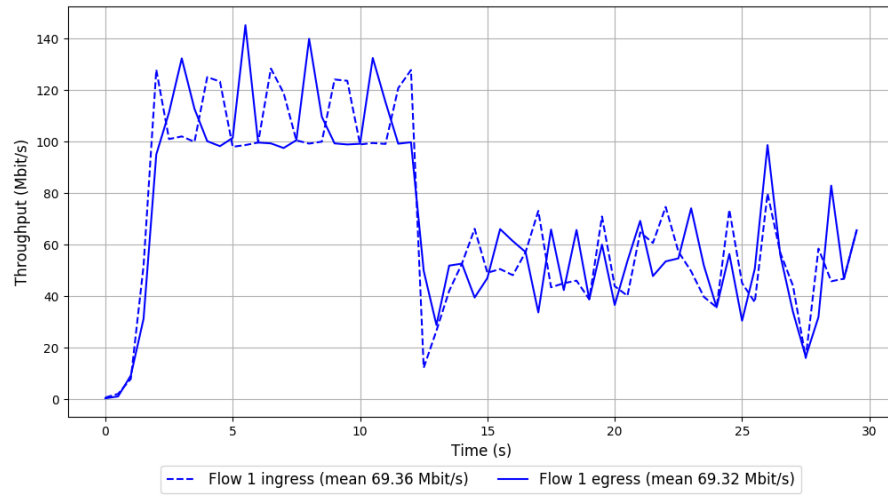
-- Flow 1:

Average throughput: 69.32 Mbit/s

95th percentile per-packet one-way delay: 126.653 ms

Loss rate: 0.01%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-01-01 23:38:17

End at: 2018-01-01 23:38:47

Below is generated by plot.py at 2018-01-02 02:49:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 62.40 Mbit/s

95th percentile per-packet one-way delay: 132.751 ms

Loss rate: 0.00%

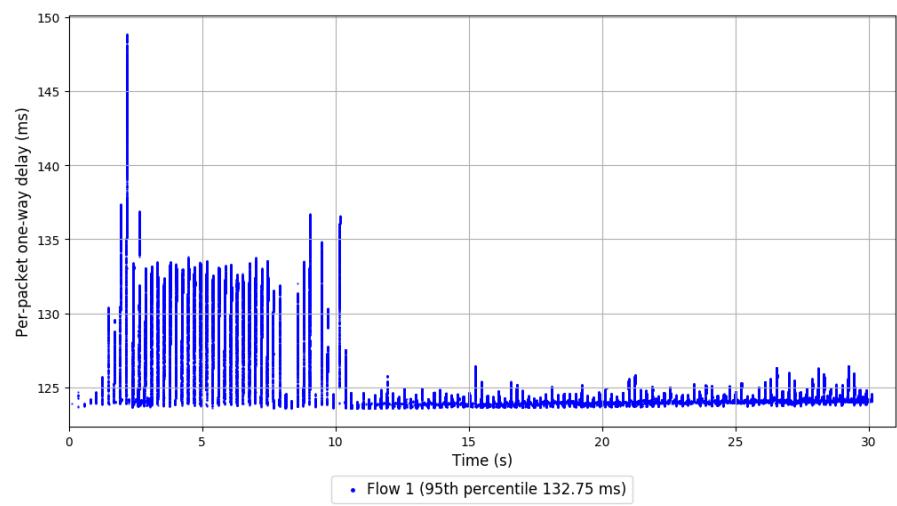
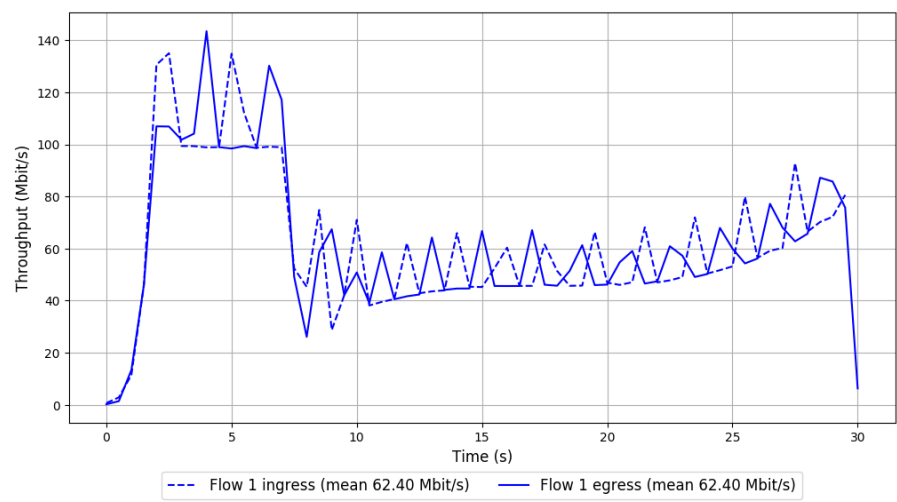
-- Flow 1:

Average throughput: 62.40 Mbit/s

95th percentile per-packet one-way delay: 132.751 ms

Loss rate: 0.00%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-01-01 23:50:13

End at: 2018-01-01 23:50:43

Below is generated by plot.py at 2018-01-02 02:49:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.11 Mbit/s

95th percentile per-packet one-way delay: 138.303 ms

Loss rate: 0.00%

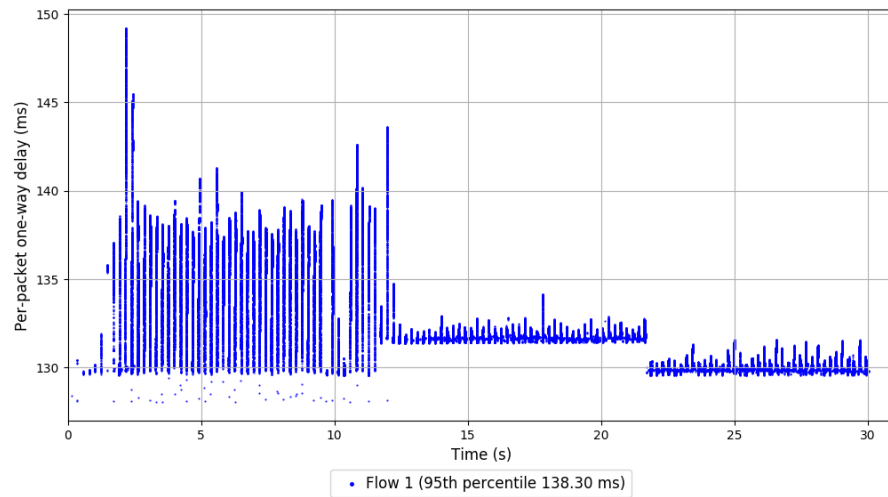
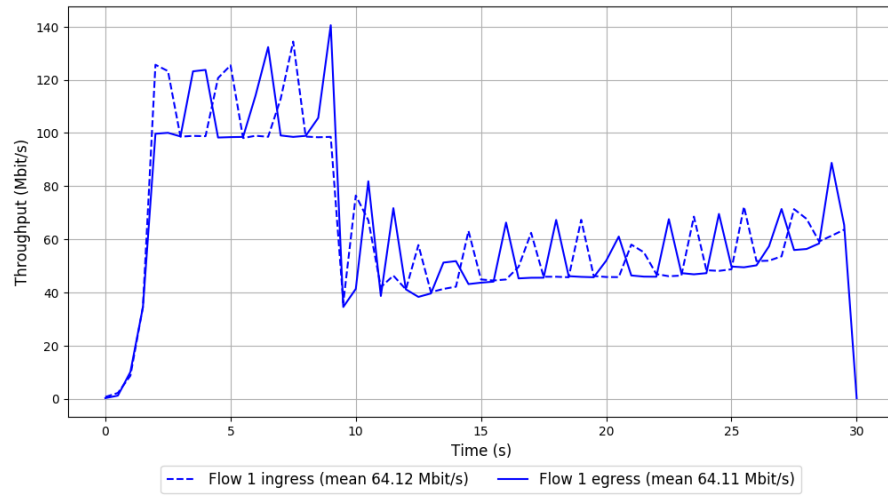
-- Flow 1:

Average throughput: 64.11 Mbit/s

95th percentile per-packet one-way delay: 138.303 ms

Loss rate: 0.00%

Run 2: Report of TCP Cubic — Data Link

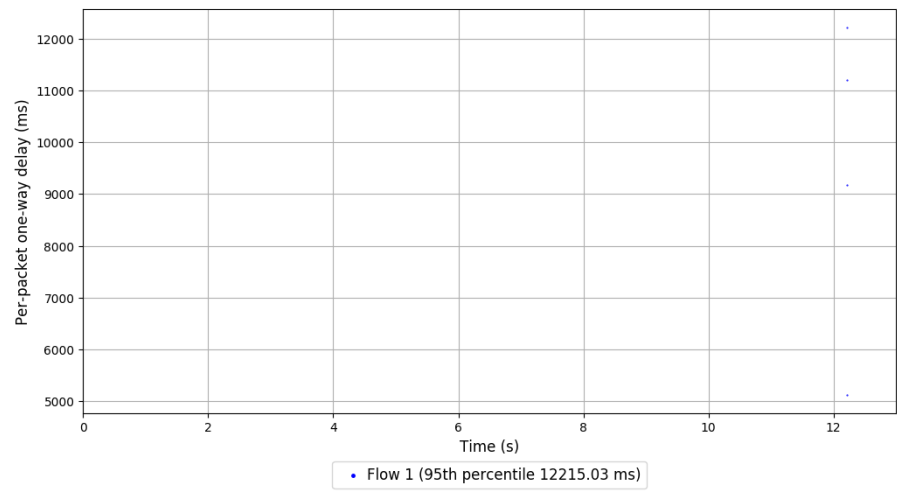
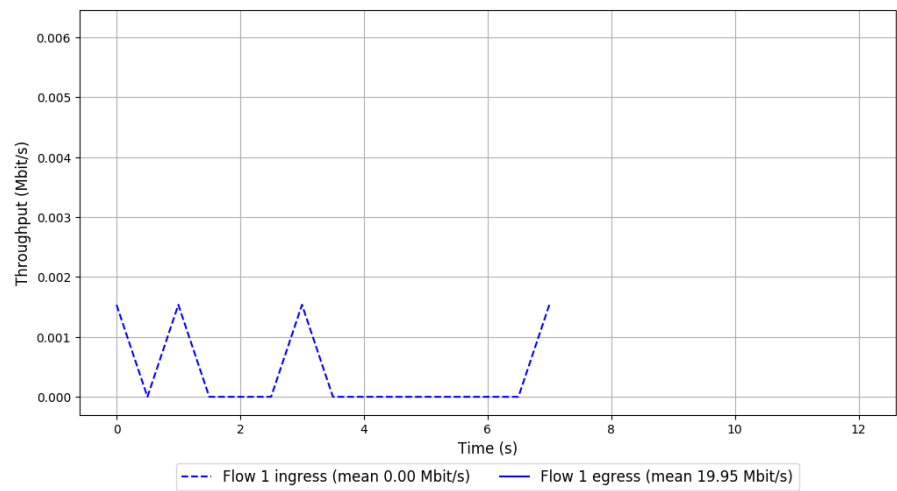


Run 3: Statistics of TCP Cubic

Start at: 2018-01-02 00:02:33

End at: 2018-01-02 00:03:03

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-01-02 00:14:46

End at: 2018-01-02 00:15:16

Below is generated by plot.py at 2018-01-02 02:50:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 102.78 Mbit/s

95th percentile per-packet one-way delay: 138.944 ms

Loss rate: 0.00%

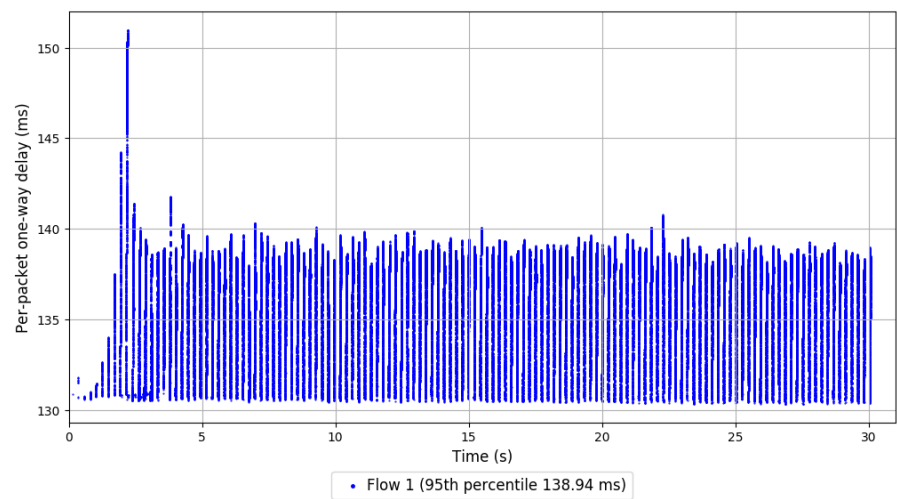
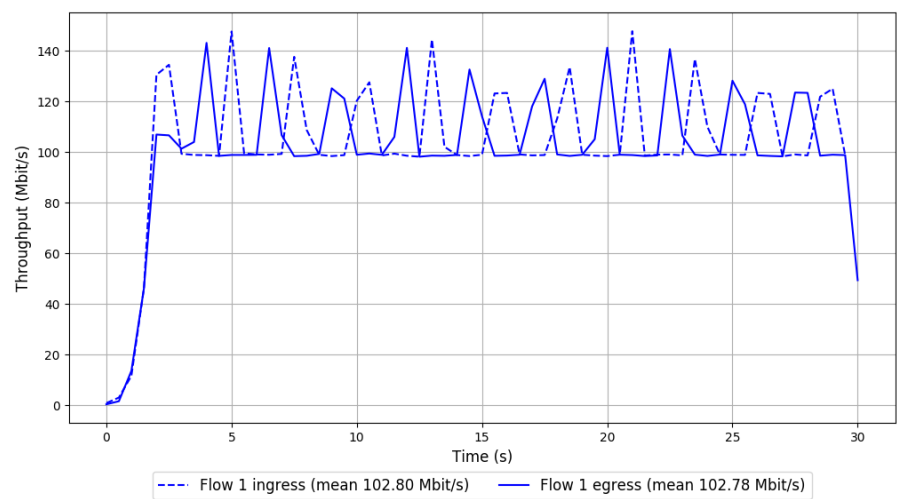
-- Flow 1:

Average throughput: 102.78 Mbit/s

95th percentile per-packet one-way delay: 138.944 ms

Loss rate: 0.00%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-01-02 00:27:02

End at: 2018-01-02 00:27:32

Below is generated by plot.py at 2018-01-02 02:50:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 61.06 Mbit/s

95th percentile per-packet one-way delay: 135.390 ms

Loss rate: 0.00%

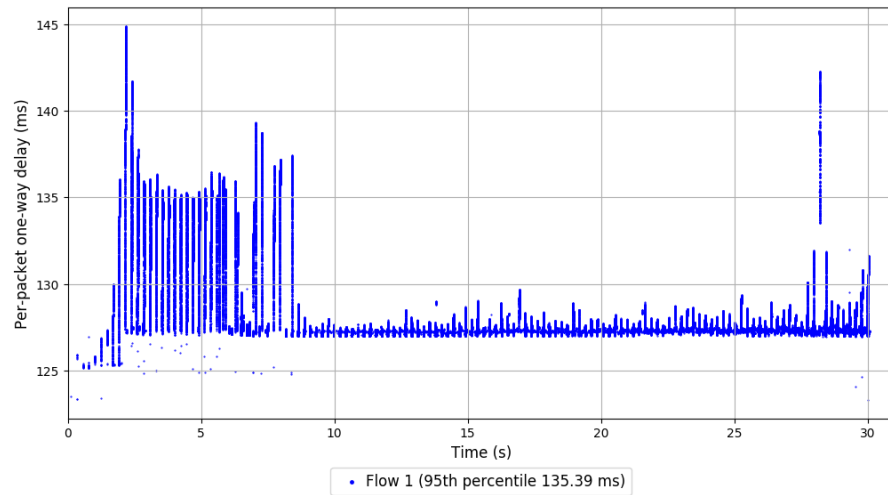
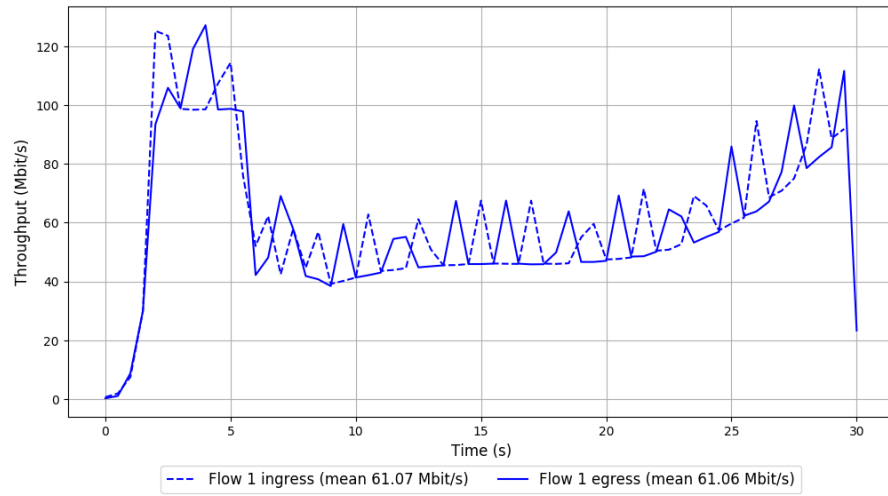
-- Flow 1:

Average throughput: 61.06 Mbit/s

95th percentile per-packet one-way delay: 135.390 ms

Loss rate: 0.00%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-01-02 00:39:19

End at: 2018-01-02 00:39:49

Below is generated by plot.py at 2018-01-02 02:50:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.13 Mbit/s

95th percentile per-packet one-way delay: 136.592 ms

Loss rate: 0.20%

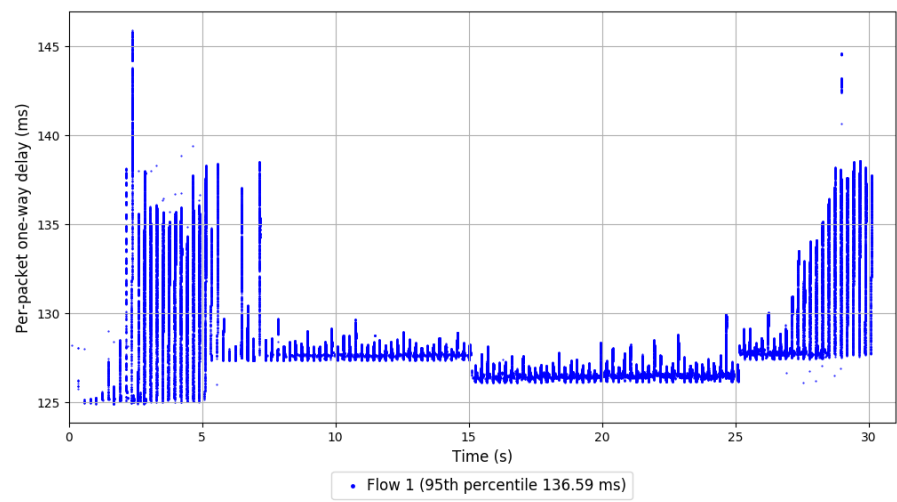
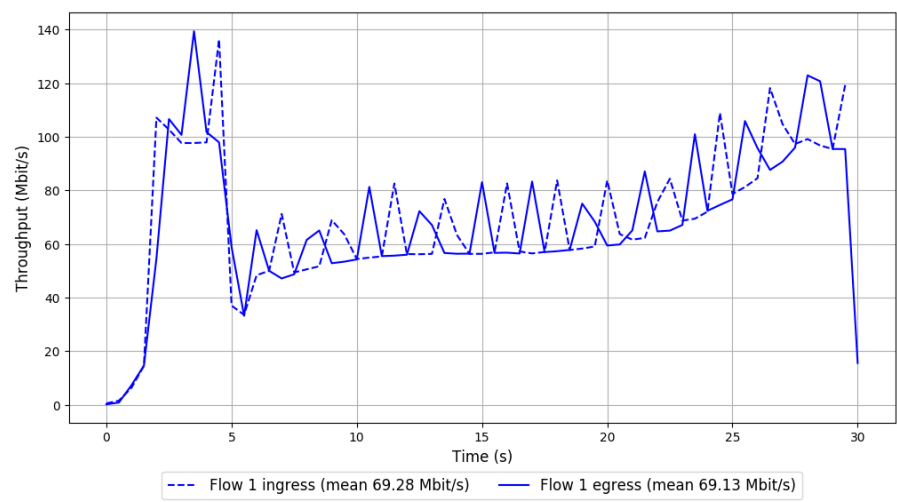
-- Flow 1:

Average throughput: 69.13 Mbit/s

95th percentile per-packet one-way delay: 136.592 ms

Loss rate: 0.20%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-01-02 00:51:50

End at: 2018-01-02 00:52:20

Below is generated by plot.py at 2018-01-02 02:50:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 102.63 Mbit/s

95th percentile per-packet one-way delay: 135.287 ms

Loss rate: 0.06%

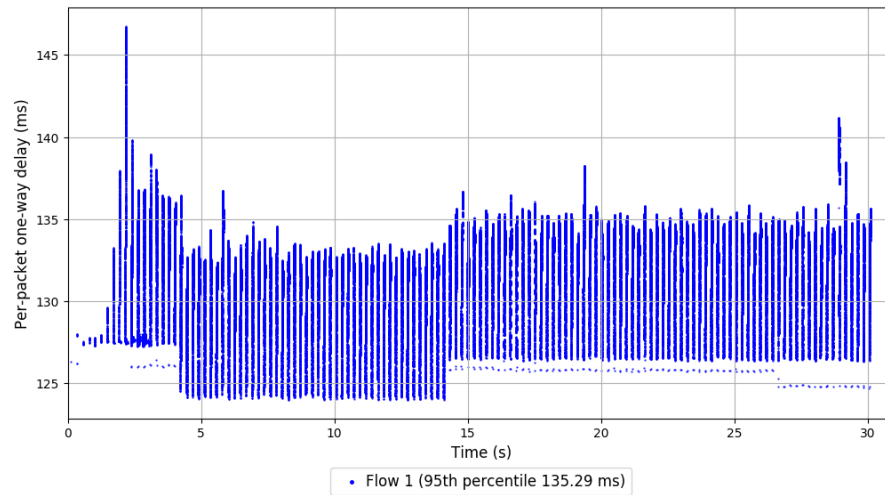
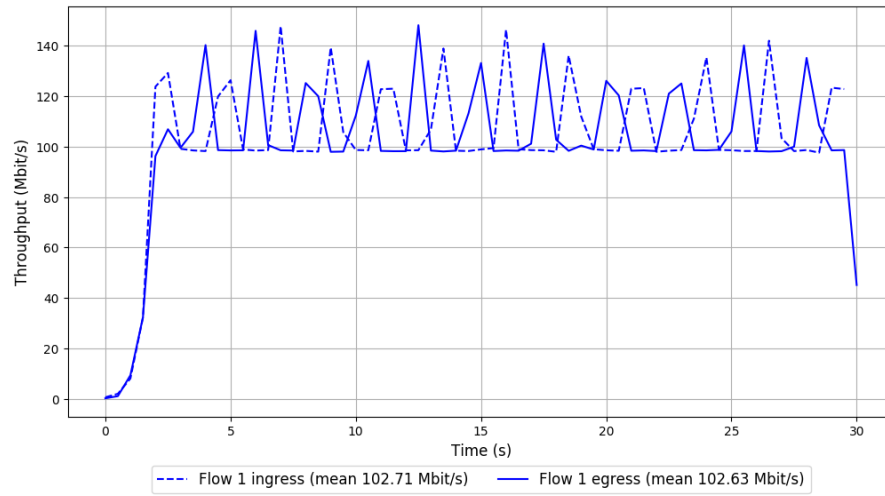
-- Flow 1:

Average throughput: 102.63 Mbit/s

95th percentile per-packet one-way delay: 135.287 ms

Loss rate: 0.06%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-01-02 01:04:21

End at: 2018-01-02 01:04:51

Below is generated by plot.py at 2018-01-02 02:50:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 67.94 Mbit/s

95th percentile per-packet one-way delay: 124.920 ms

Loss rate: 0.00%

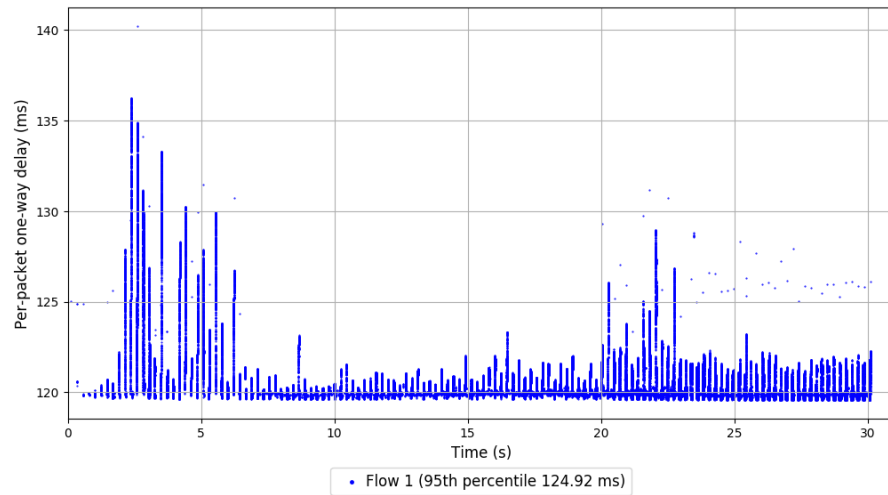
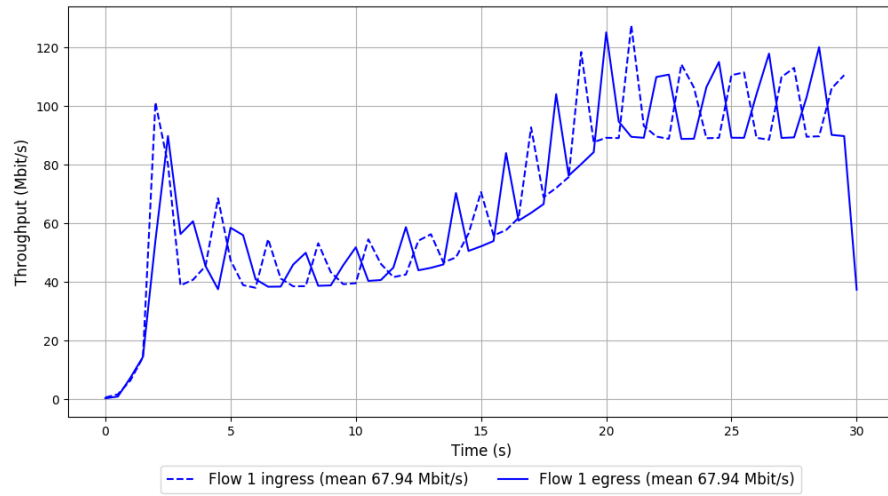
-- Flow 1:

Average throughput: 67.94 Mbit/s

95th percentile per-packet one-way delay: 124.920 ms

Loss rate: 0.00%

Run 8: Report of TCP Cubic — Data Link

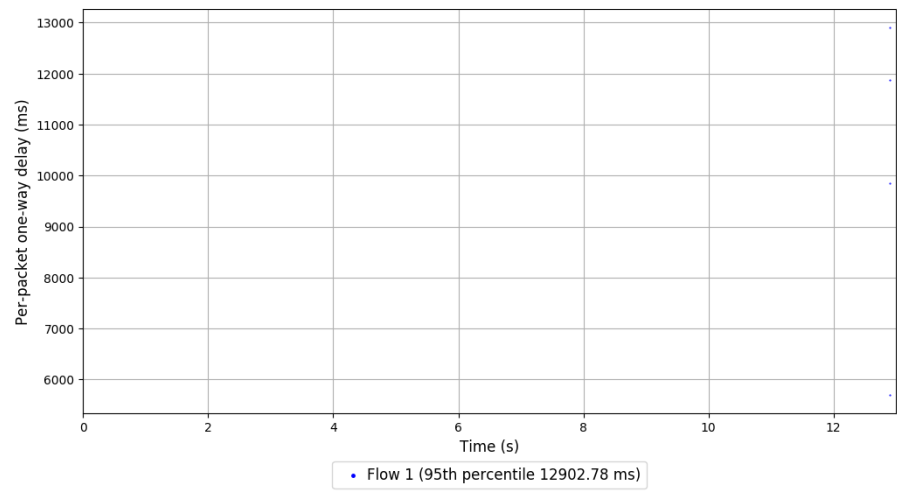
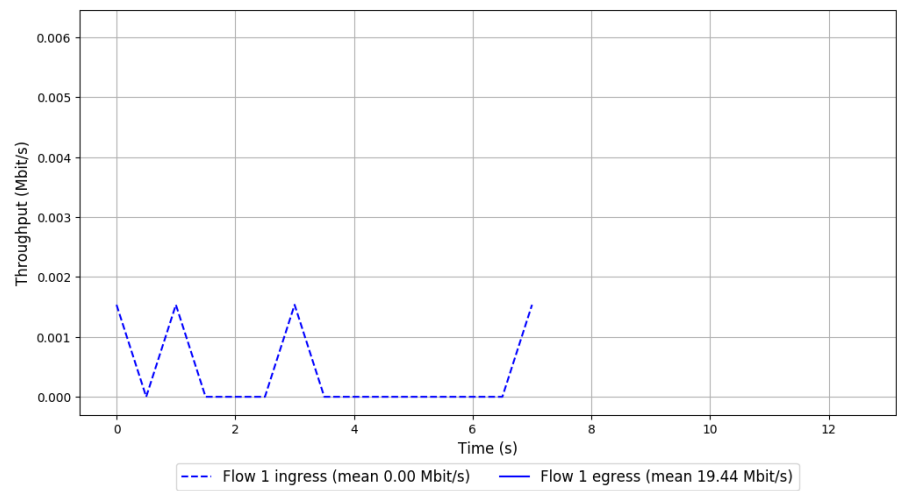


Run 9: Statistics of TCP Cubic

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

End at: 2018-01-02 01:17:11

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-01-02 01:28:49

End at: 2018-01-02 01:29:19

Below is generated by plot.py at 2018-01-02 02:50:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 67.41 Mbit/s

95th percentile per-packet one-way delay: 126.490 ms

Loss rate: 0.00%

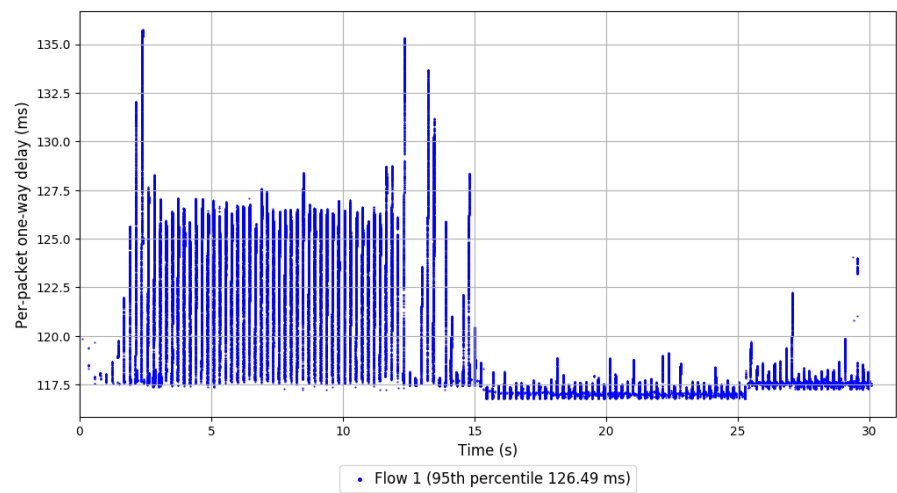
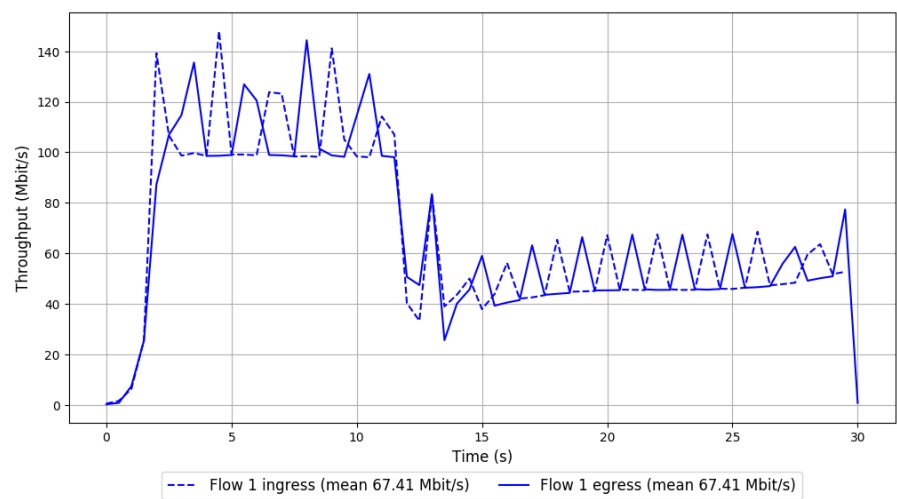
-- Flow 1:

Average throughput: 67.41 Mbit/s

95th percentile per-packet one-way delay: 126.490 ms

Loss rate: 0.00%

Run 10: Report of TCP Cubic — Data Link

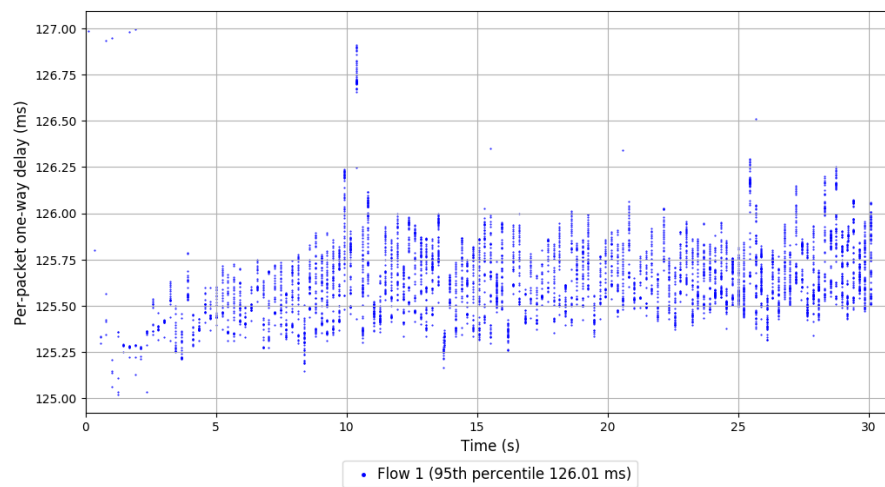
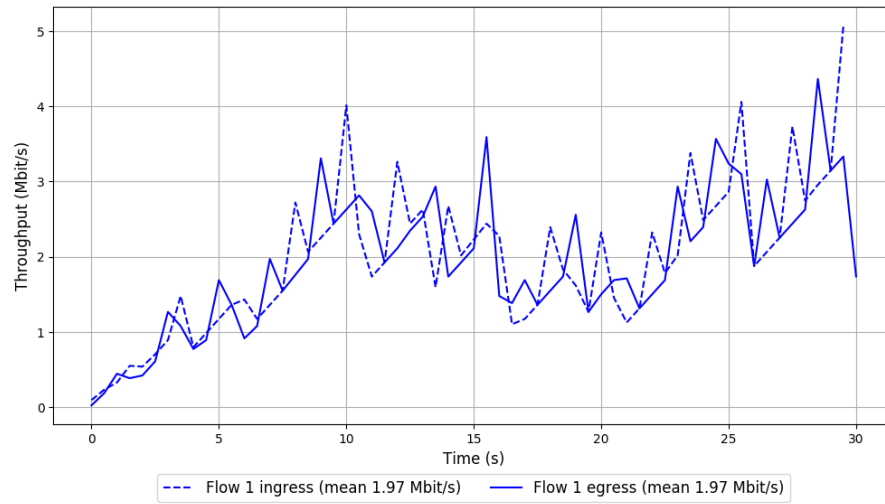


```
Run 1: Statistics of LEDBAT

Start at: 2018-01-01 23:41:21
End at: 2018-01-01 23:41:51

# Below is generated by plot.py at 2018-01-02 02:50:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.97 Mbit/s
95th percentile per-packet one-way delay: 126.014 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.97 Mbit/s
95th percentile per-packet one-way delay: 126.014 ms
Loss rate: 0.00%
```


Run 1: Report of LEDBAT — Data Link

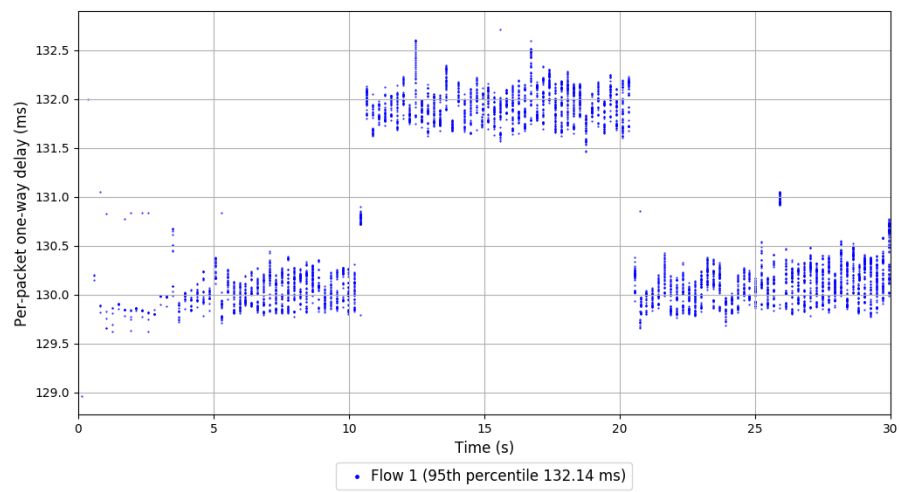
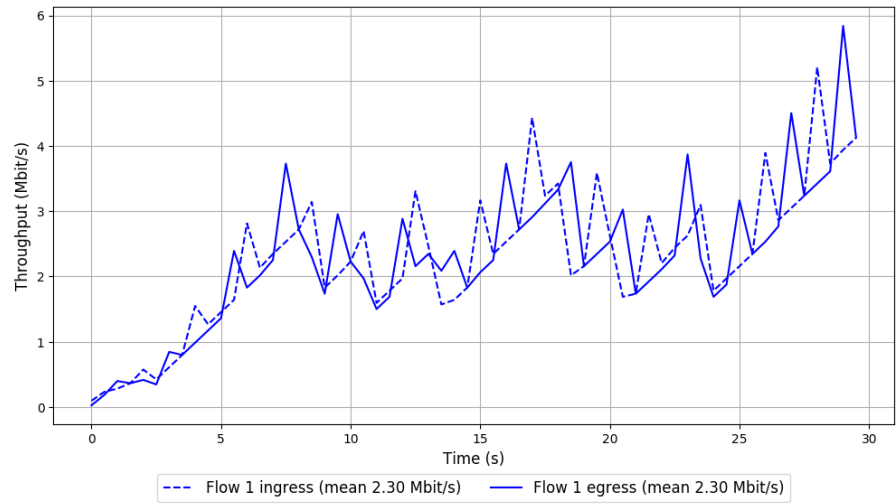


```
Run 2: Statistics of LEDBAT

Start at: 2018-01-01 23:53:14
End at: 2018-01-01 23:53:44

# Below is generated by plot.py at 2018-01-02 02:50:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.30 Mbit/s
95th percentile per-packet one-way delay: 132.137 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.30 Mbit/s
95th percentile per-packet one-way delay: 132.137 ms
Loss rate: 0.00%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-01-02 00:05:29

End at: 2018-01-02 00:05:59

Below is generated by plot.py at 2018-01-02 02:50:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.15 Mbit/s

95th percentile per-packet one-way delay: 132.500 ms

Loss rate: 0.00%

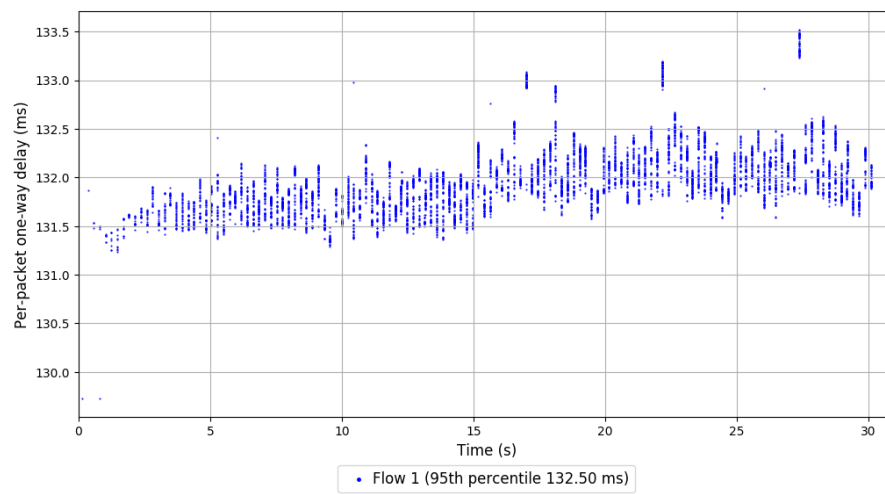
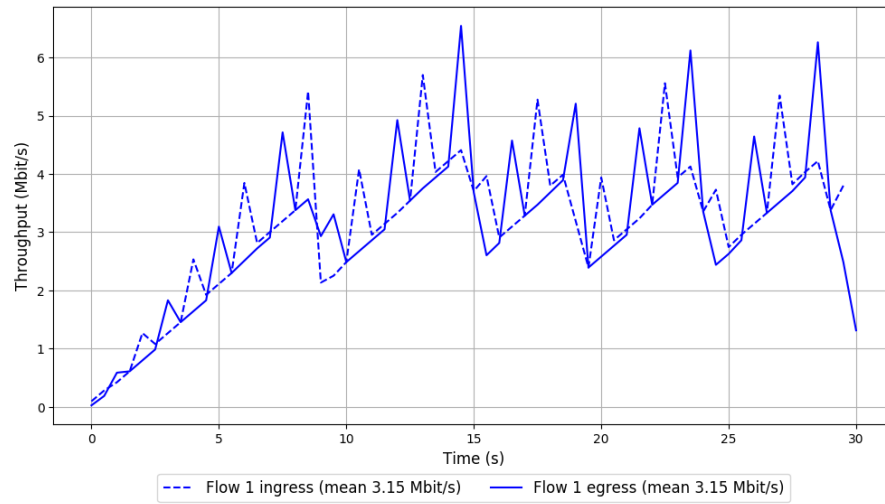
-- Flow 1:

Average throughput: 3.15 Mbit/s

95th percentile per-packet one-way delay: 132.500 ms

Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-01-02 00:17:50

End at: 2018-01-02 00:18:20

Below is generated by plot.py at 2018-01-02 02:50:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: 129.726 ms

Loss rate: 0.00%

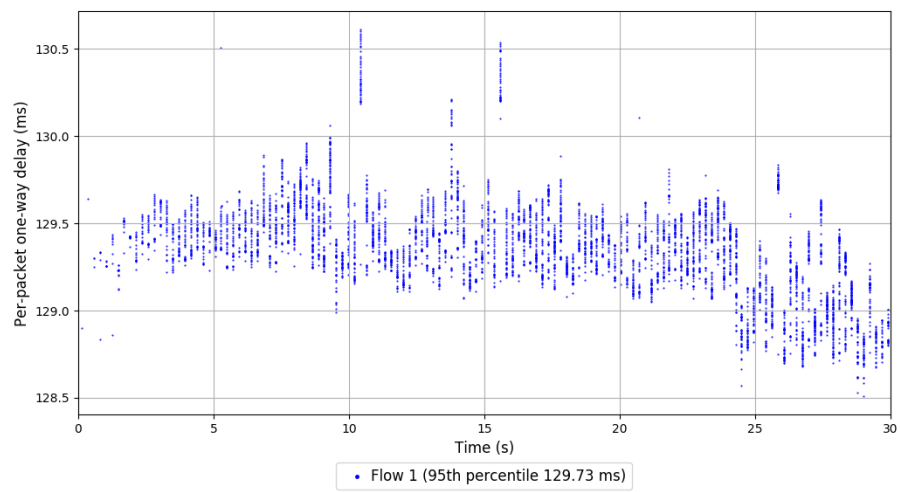
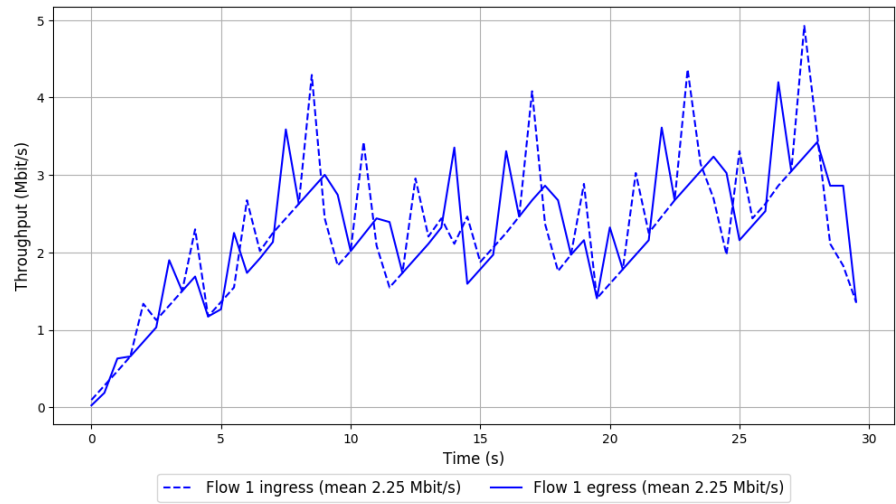
-- Flow 1:

Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: 129.726 ms

Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-01-02 00:30:07

End at: 2018-01-02 00:30:37

Below is generated by plot.py at 2018-01-02 02:50:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.99 Mbit/s

95th percentile per-packet one-way delay: 127.049 ms

Loss rate: 0.00%

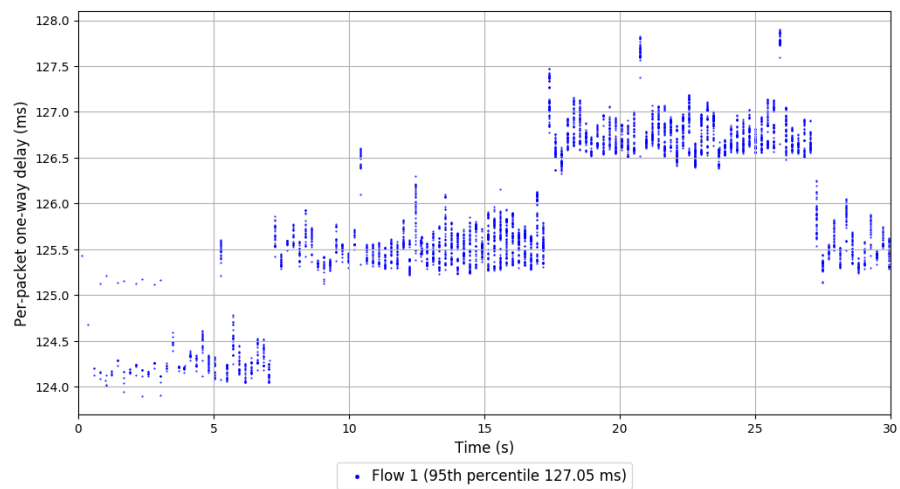
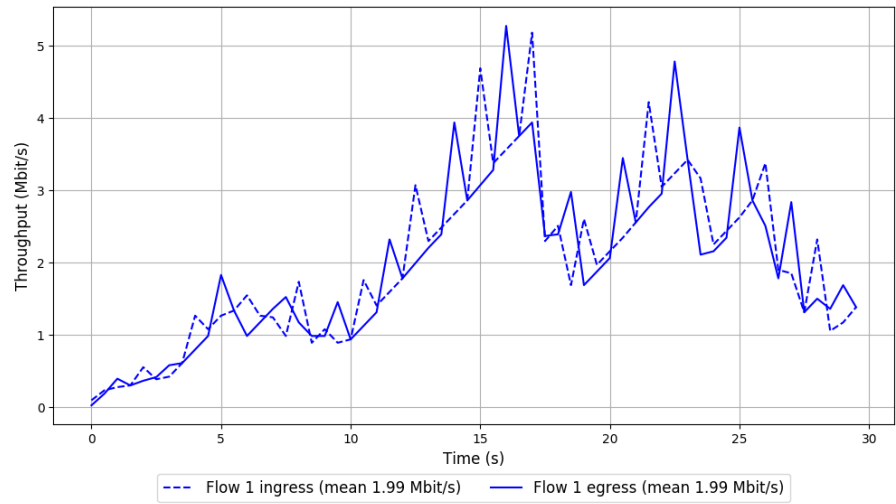
-- Flow 1:

Average throughput: 1.99 Mbit/s

95th percentile per-packet one-way delay: 127.049 ms

Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-01-02 00:42:20

End at: 2018-01-02 00:42:50

Below is generated by plot.py at 2018-01-02 02:50:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.66 Mbit/s

95th percentile per-packet one-way delay: 129.112 ms

Loss rate: 0.00%

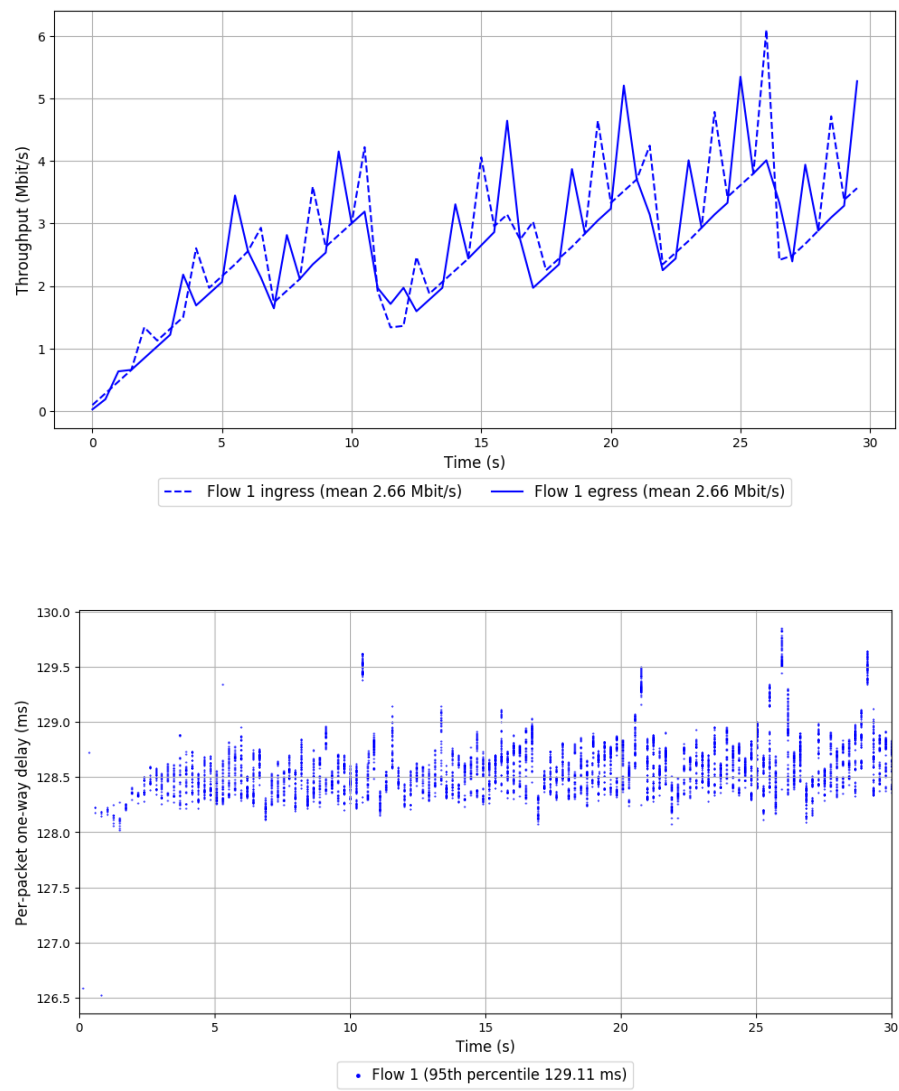
-- Flow 1:

Average throughput: 2.66 Mbit/s

95th percentile per-packet one-way delay: 129.112 ms

Loss rate: 0.00%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-01-02 00:54:52

End at: 2018-01-02 00:55:22

Below is generated by plot.py at 2018-01-02 02:50:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.84 Mbit/s

95th percentile per-packet one-way delay: 123.647 ms

Loss rate: 0.00%

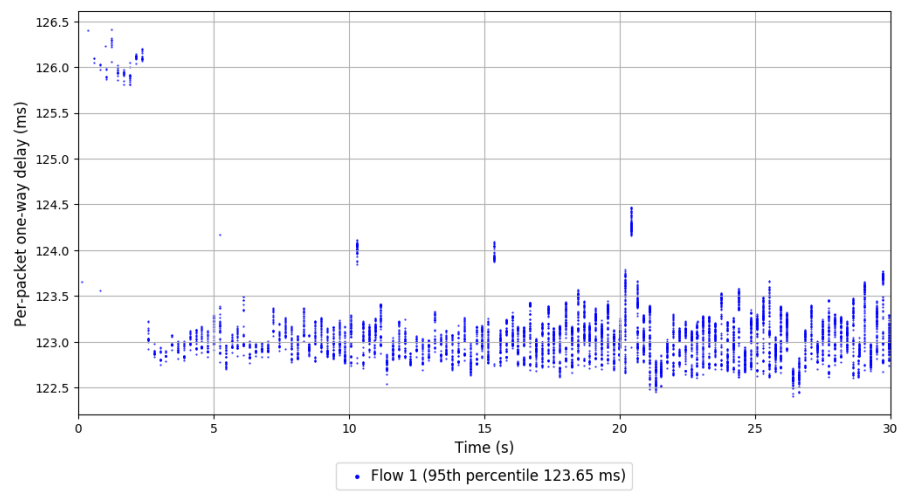
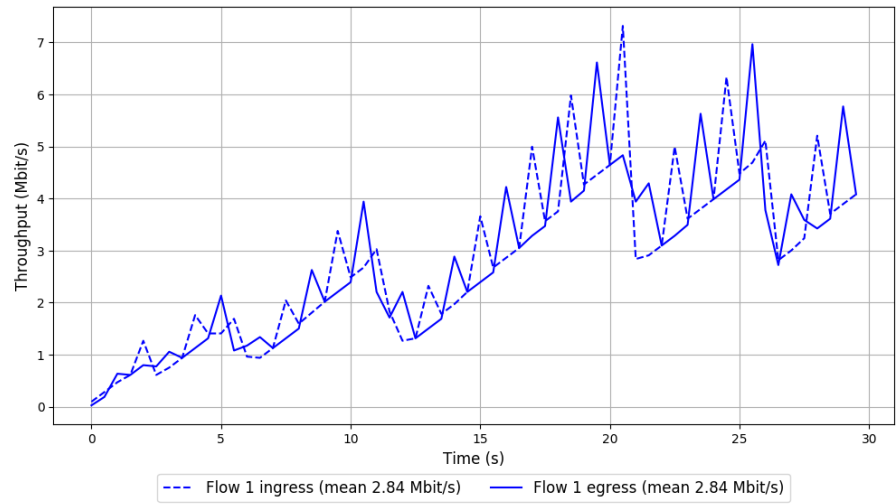
-- Flow 1:

Average throughput: 2.84 Mbit/s

95th percentile per-packet one-way delay: 123.647 ms

Loss rate: 0.00%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-01-02 01:07:23

End at: 2018-01-02 01:07:53

Below is generated by plot.py at 2018-01-02 02:50:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.43 Mbit/s

95th percentile per-packet one-way delay: 123.417 ms

Loss rate: 0.00%

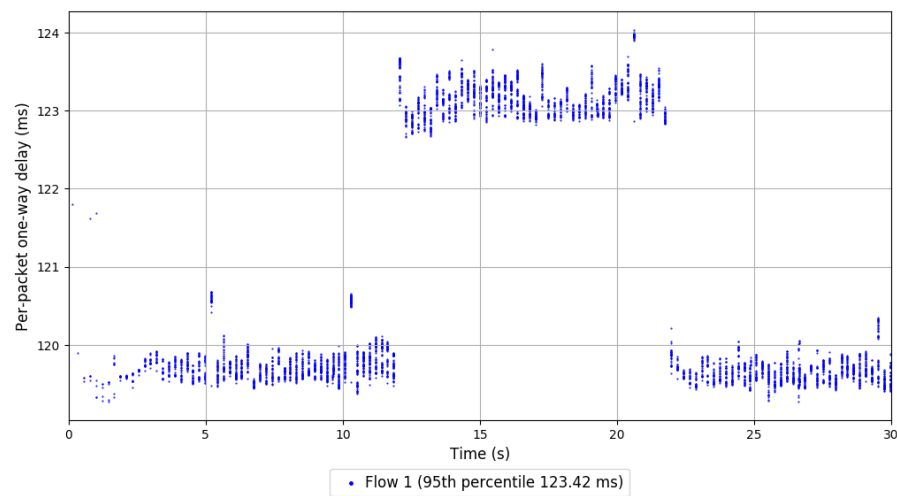
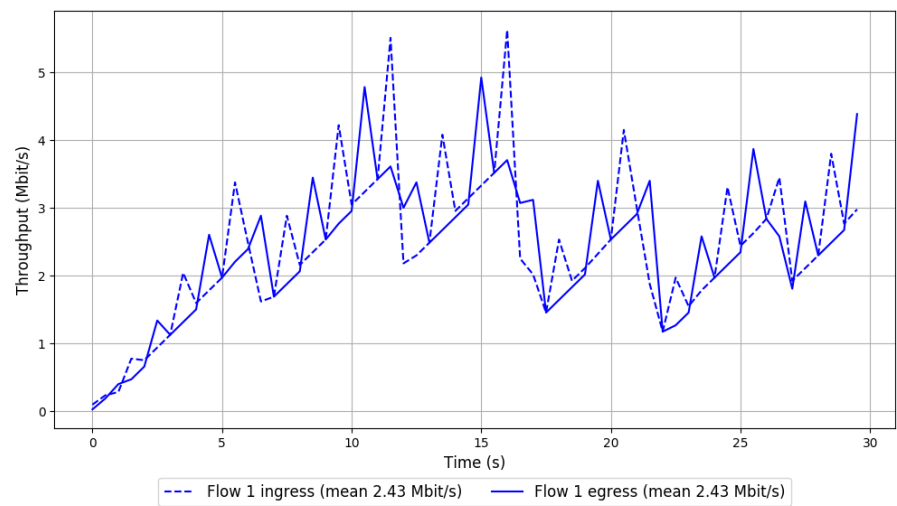
-- Flow 1:

Average throughput: 2.43 Mbit/s

95th percentile per-packet one-way delay: 123.417 ms

Loss rate: 0.00%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-01-02 01:19:37

End at: 2018-01-02 01:20:07

Below is generated by plot.py at 2018-01-02 02:50:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.91 Mbit/s

95th percentile per-packet one-way delay: 124.168 ms

Loss rate: 0.00%

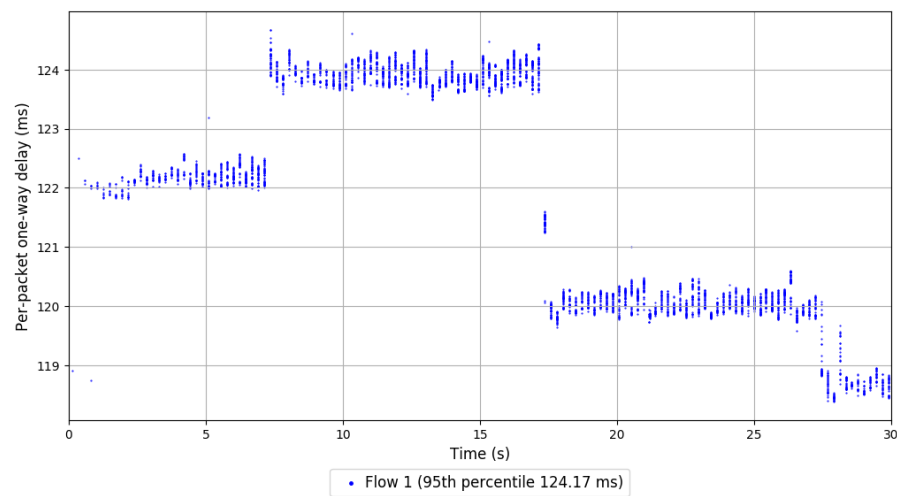
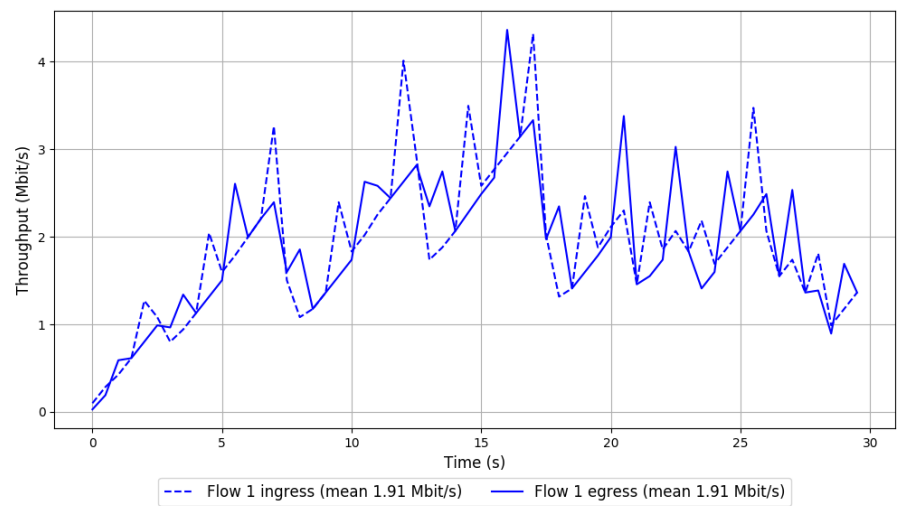
-- Flow 1:

Average throughput: 1.91 Mbit/s

95th percentile per-packet one-way delay: 124.168 ms

Loss rate: 0.00%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-01-02 01:31:58

End at: 2018-01-02 01:32:28

Below is generated by plot.py at 2018-01-02 02:50:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.83 Mbit/s

95th percentile per-packet one-way delay: 117.378 ms

Loss rate: 0.00%

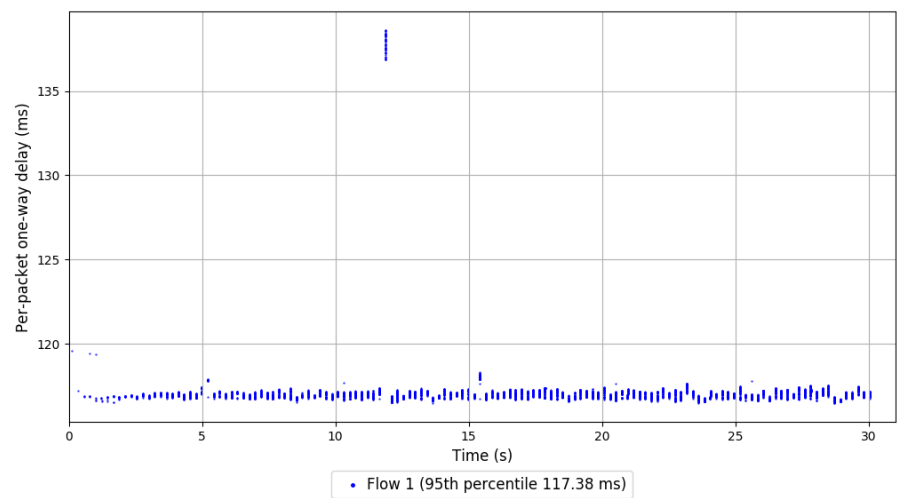
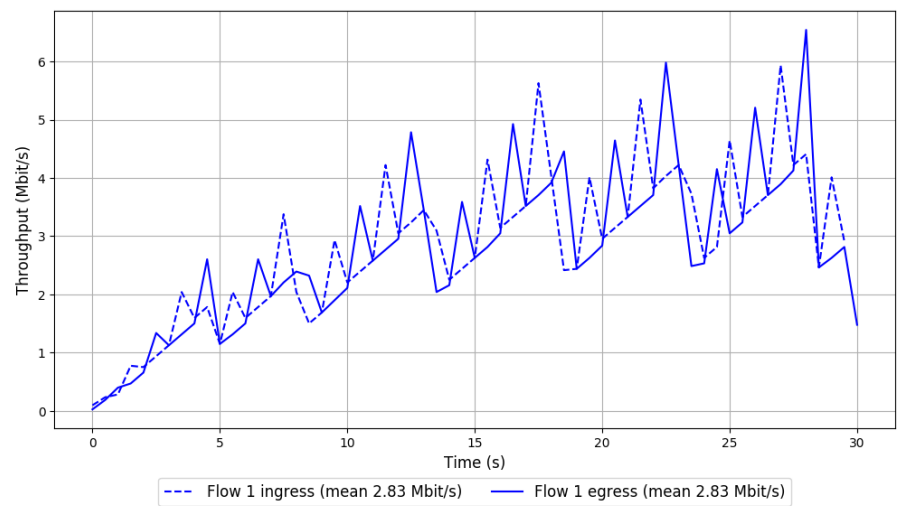
-- Flow 1:

Average throughput: 2.83 Mbit/s

95th percentile per-packet one-way delay: 117.378 ms

Loss rate: 0.00%

Run 10: Report of LEDBAT — Data Link

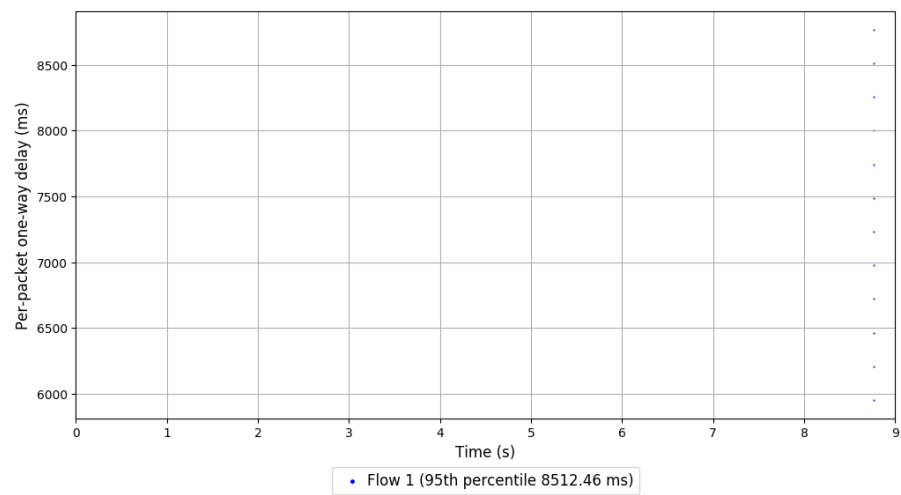
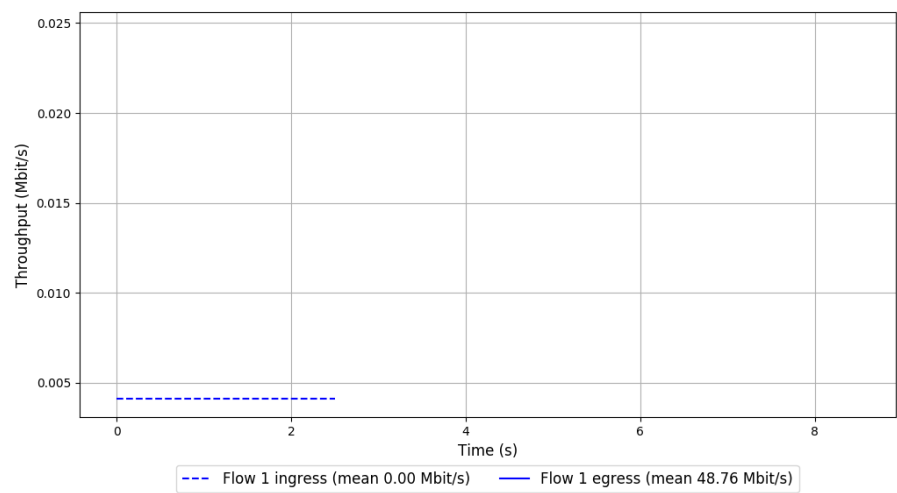


Run 1: Statistics of PCC

Start at: 2018-01-01 23:42:43

End at: 2018-01-01 23:43:13

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2018-01-01 23:54:36

End at: 2018-01-01 23:55:06

Below is generated by plot.py at 2018-01-02 02:58:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 551.25 Mbit/s

95th percentile per-packet one-way delay: 258.134 ms

Loss rate: 1.30%

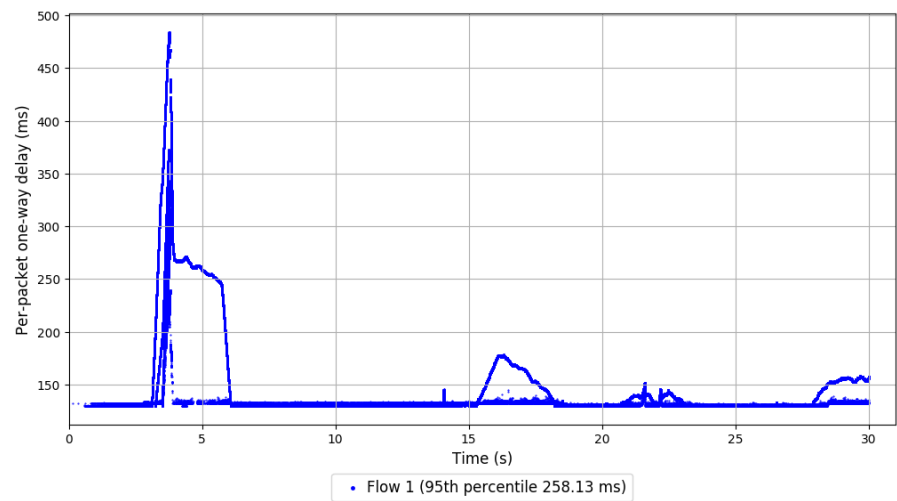
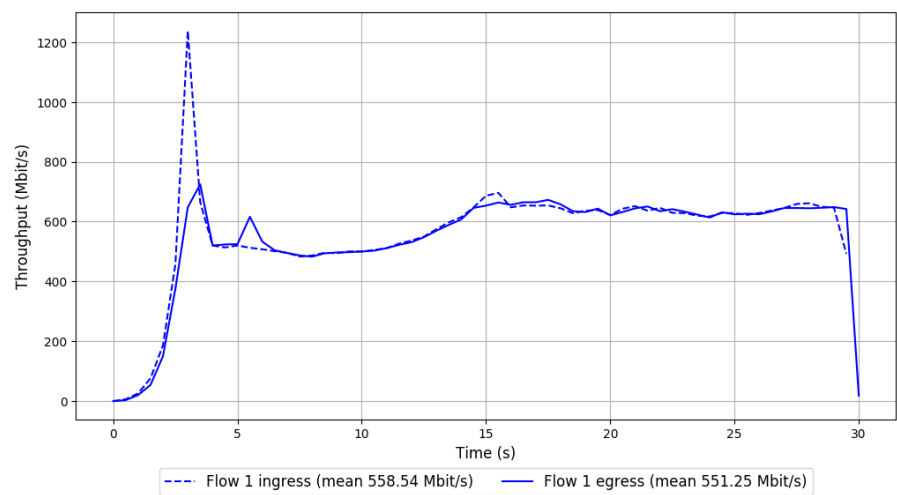
-- Flow 1:

Average throughput: 551.25 Mbit/s

95th percentile per-packet one-way delay: 258.134 ms

Loss rate: 1.30%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-01-02 00:06:51

End at: 2018-01-02 00:07:21

Below is generated by plot.py at 2018-01-02 02:58:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 551.26 Mbit/s

95th percentile per-packet one-way delay: 216.736 ms

Loss rate: 1.32%

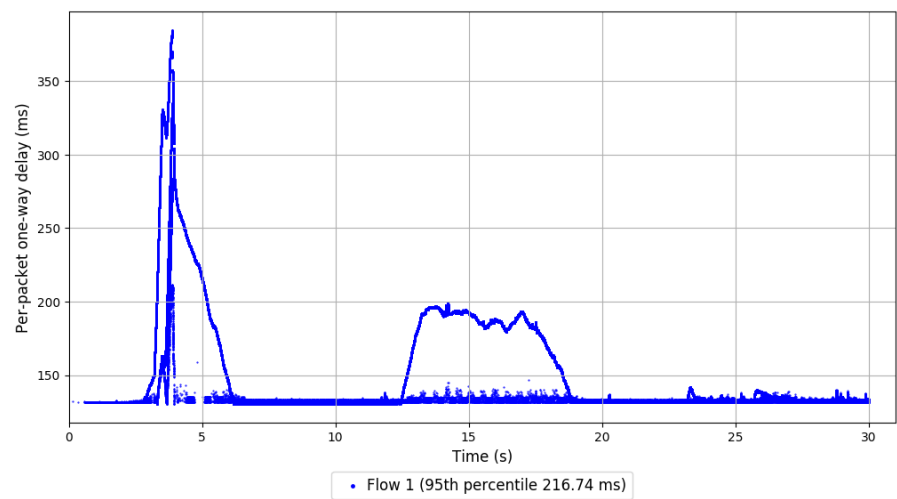
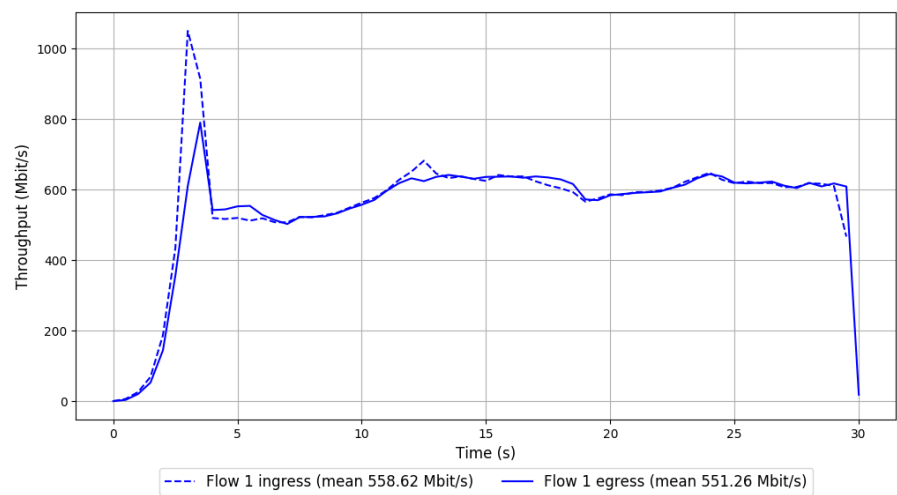
-- Flow 1:

Average throughput: 551.26 Mbit/s

95th percentile per-packet one-way delay: 216.736 ms

Loss rate: 1.32%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-01-02 00:19:12

End at: 2018-01-02 00:19:42

Below is generated by plot.py at 2018-01-02 02:58:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 525.58 Mbit/s

95th percentile per-packet one-way delay: 184.904 ms

Loss rate: 1.28%

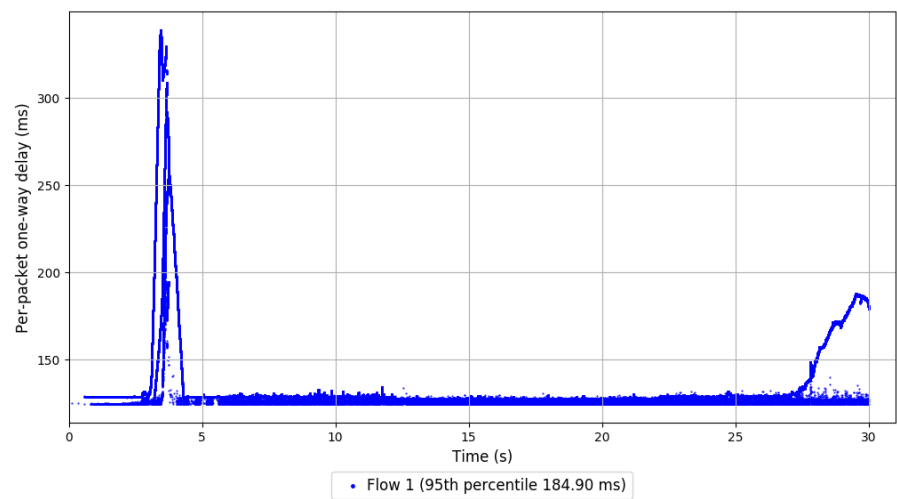
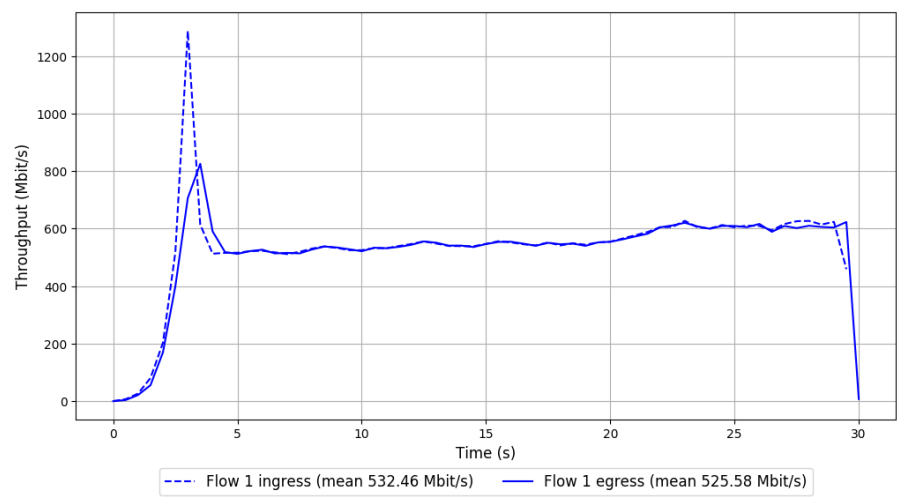
-- Flow 1:

Average throughput: 525.58 Mbit/s

95th percentile per-packet one-way delay: 184.904 ms

Loss rate: 1.28%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-01-02 00:31:29

End at: 2018-01-02 00:31:59

Below is generated by plot.py at 2018-01-02 02:58:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 521.09 Mbit/s

95th percentile per-packet one-way delay: 170.488 ms

Loss rate: 0.62%

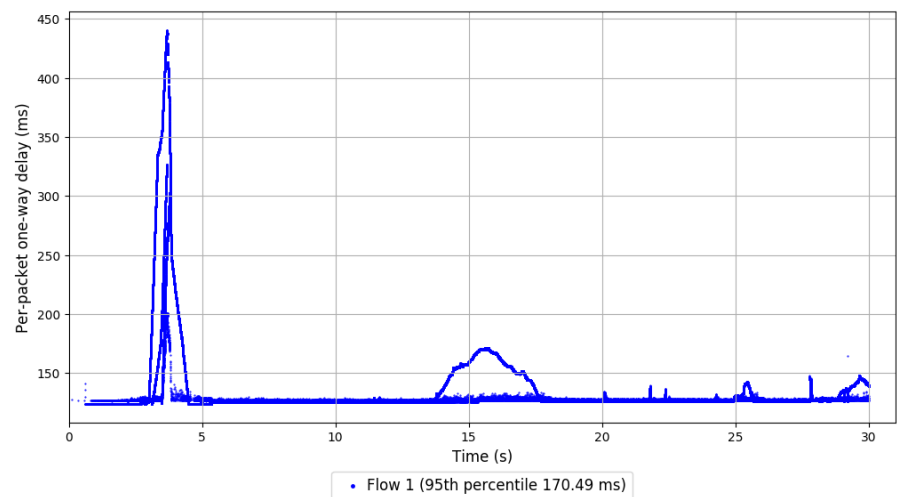
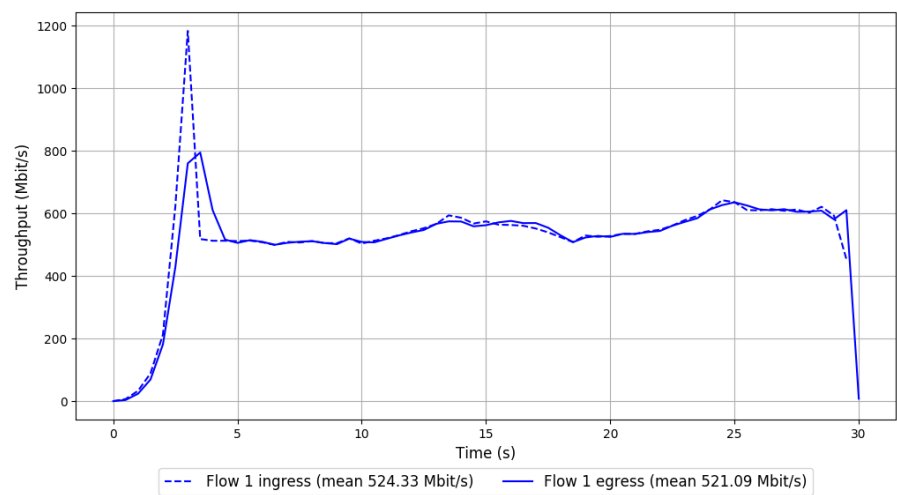
-- Flow 1:

Average throughput: 521.09 Mbit/s

95th percentile per-packet one-way delay: 170.488 ms

Loss rate: 0.62%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-01-02 00:43:42

End at: 2018-01-02 00:44:12

Below is generated by plot.py at 2018-01-02 02:58:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 529.33 Mbit/s

95th percentile per-packet one-way delay: 181.047 ms

Loss rate: 1.42%

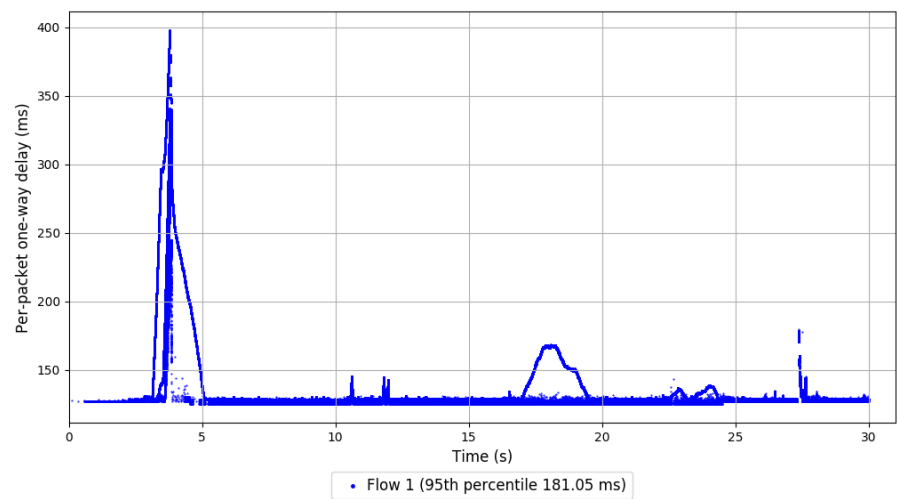
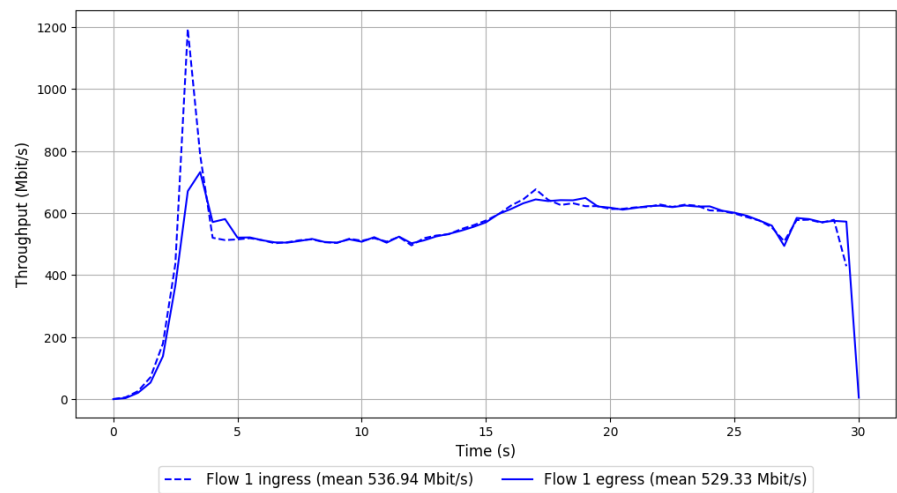
-- Flow 1:

Average throughput: 529.33 Mbit/s

95th percentile per-packet one-way delay: 181.047 ms

Loss rate: 1.42%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-01-02 00:56:14

End at: 2018-01-02 00:56:44

Below is generated by plot.py at 2018-01-02 02:58:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 558.00 Mbit/s

95th percentile per-packet one-way delay: 244.330 ms

Loss rate: 1.62%

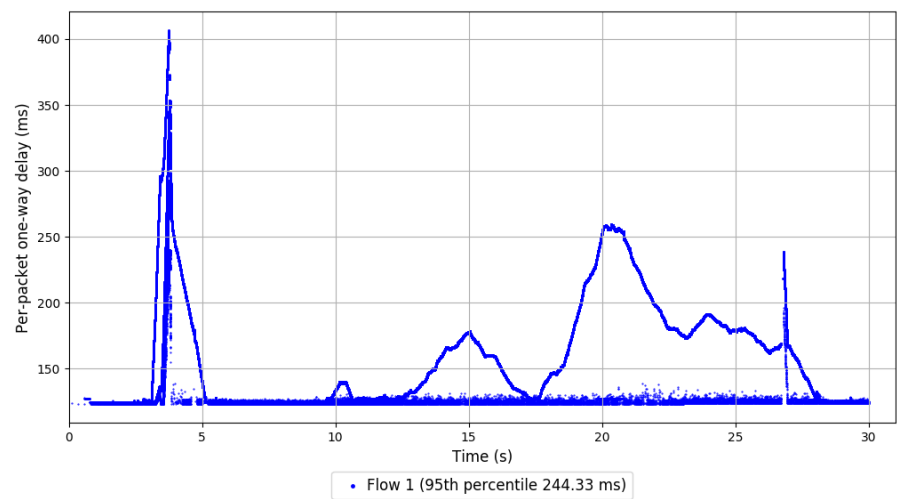
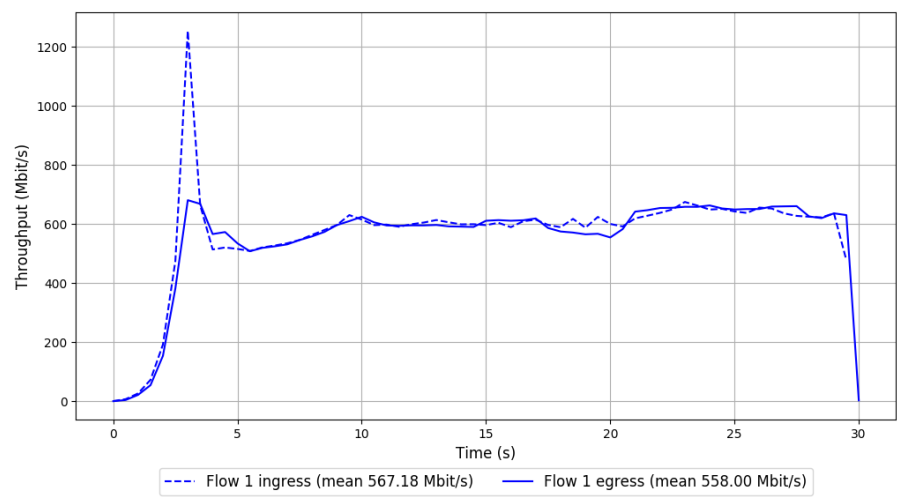
-- Flow 1:

Average throughput: 558.00 Mbit/s

95th percentile per-packet one-way delay: 244.330 ms

Loss rate: 1.62%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-01-02 01:08:44

End at: 2018-01-02 01:09:14

Below is generated by plot.py at 2018-01-02 02:58:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 525.85 Mbit/s

95th percentile per-packet one-way delay: 181.219 ms

Loss rate: 1.16%

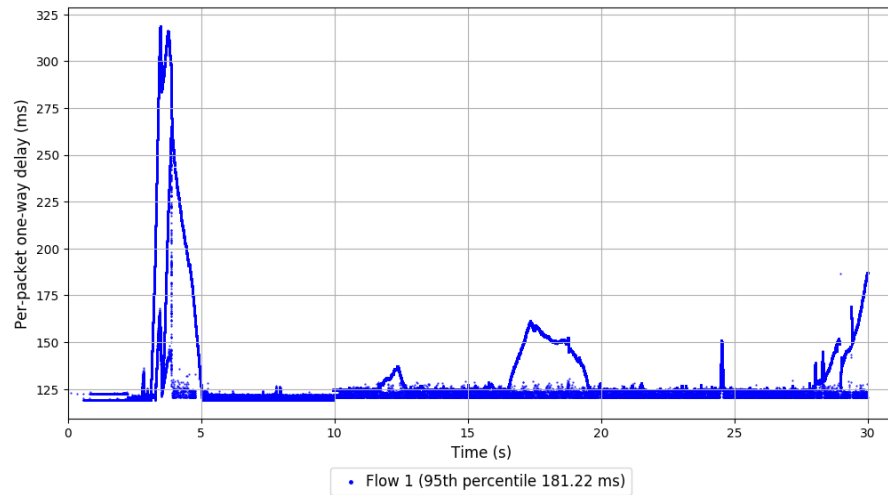
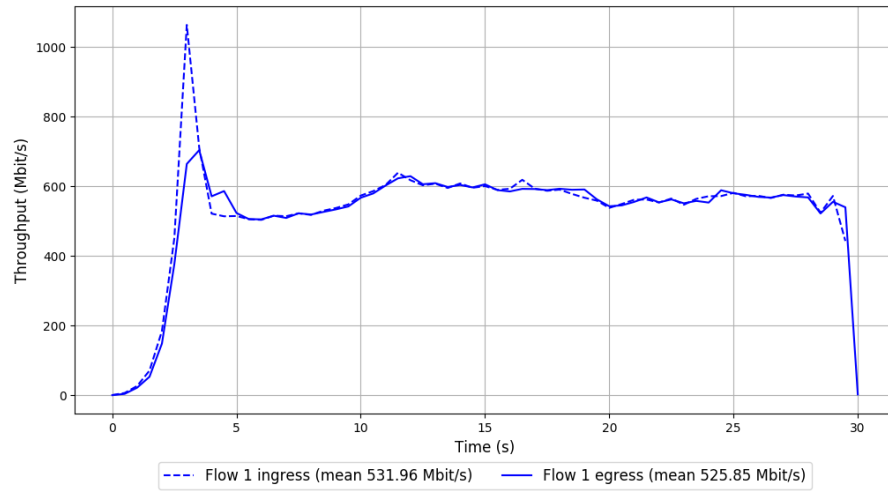
-- Flow 1:

Average throughput: 525.85 Mbit/s

95th percentile per-packet one-way delay: 181.219 ms

Loss rate: 1.16%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2018-01-02 01:20:59

End at: 2018-01-02 01:21:29

Below is generated by plot.py at 2018-01-02 02:58:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 522.91 Mbit/s

95th percentile per-packet one-way delay: 233.133 ms

Loss rate: 1.85%

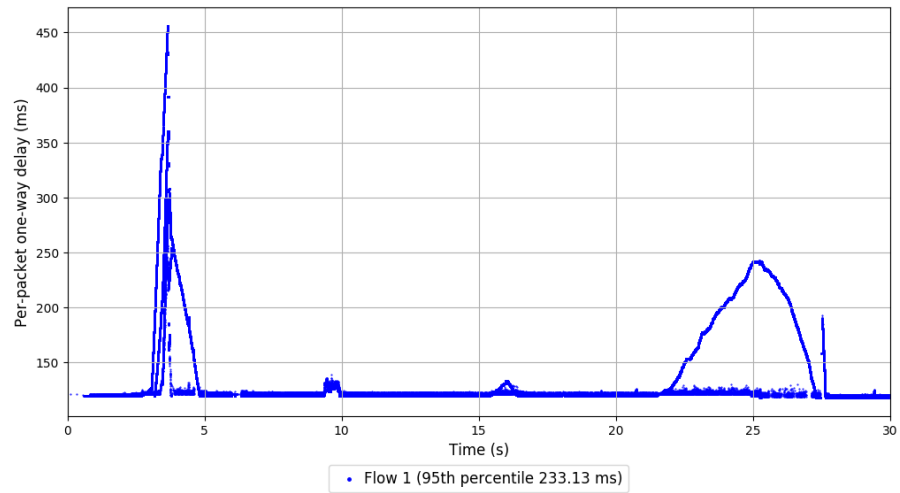
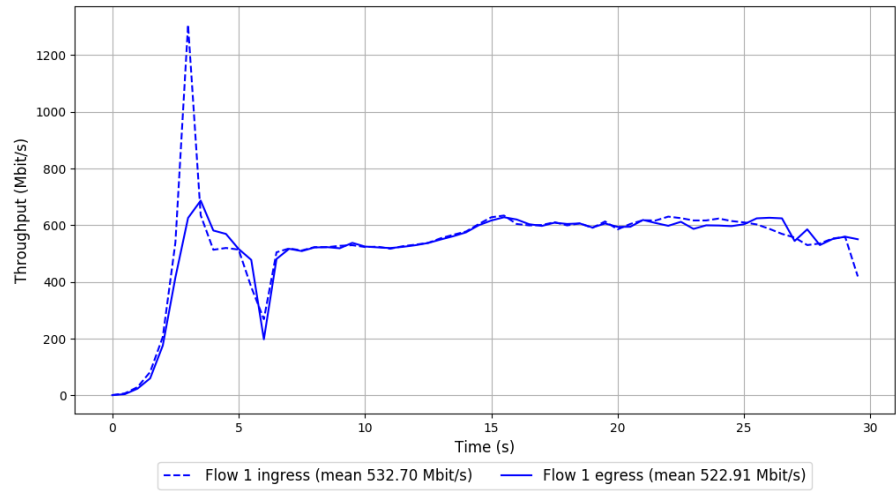
-- Flow 1:

Average throughput: 522.91 Mbit/s

95th percentile per-packet one-way delay: 233.133 ms

Loss rate: 1.85%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2018-01-02 01:33:20

End at: 2018-01-02 01:33:50

Below is generated by plot.py at 2018-01-02 03:06:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 531.40 Mbit/s

95th percentile per-packet one-way delay: 162.800 ms

Loss rate: 1.29%

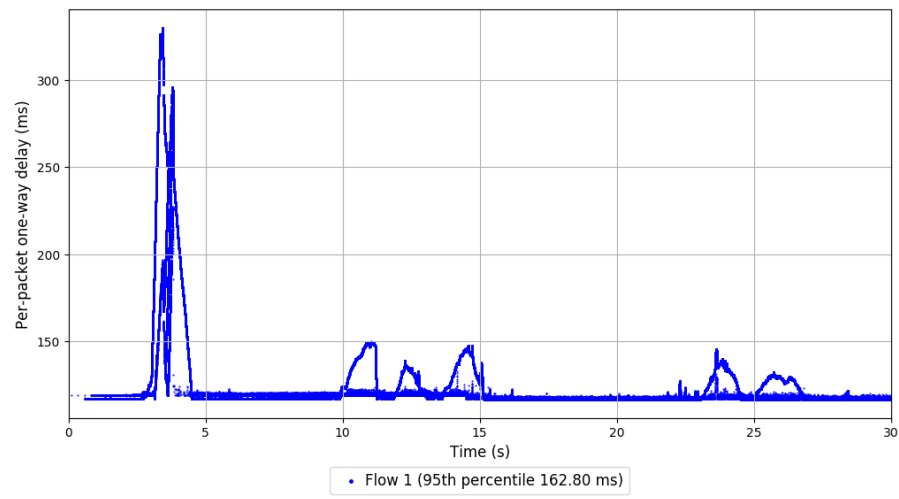
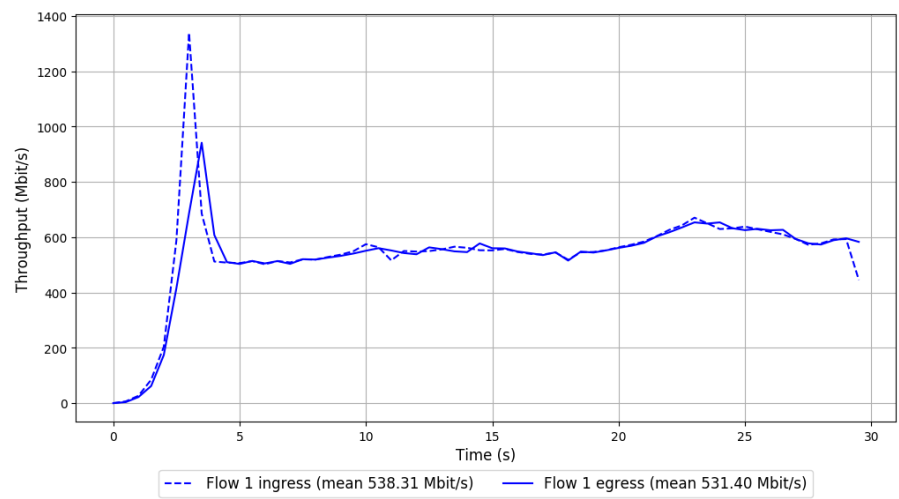
-- Flow 1:

Average throughput: 531.40 Mbit/s

95th percentile per-packet one-way delay: 162.800 ms

Loss rate: 1.29%

Run 10: Report of PCC — Data Link

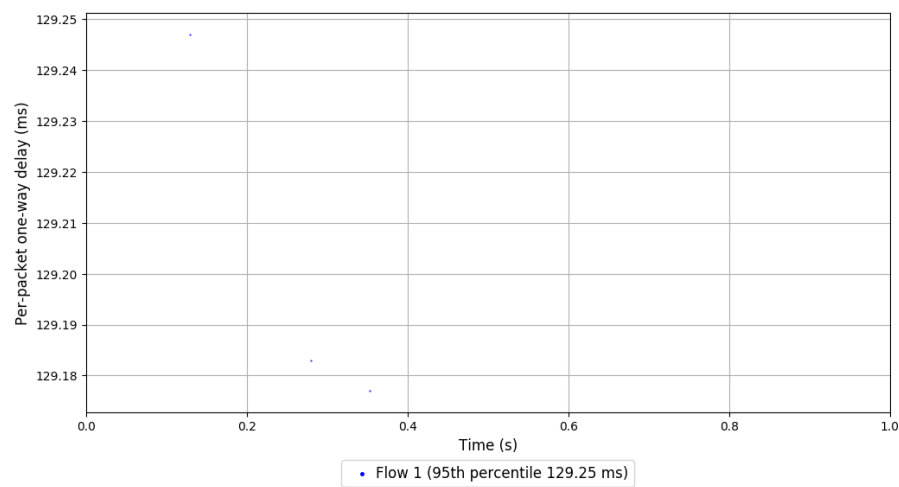
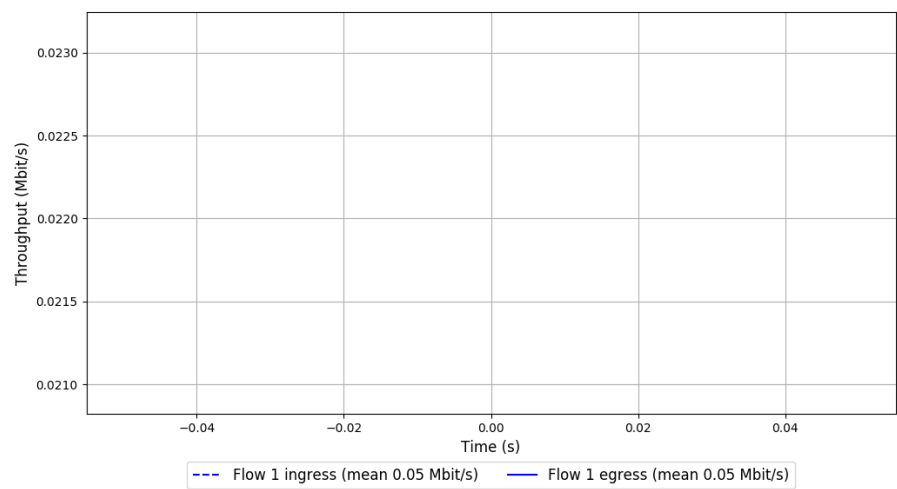


Run 1: Statistics of QUIC Cubic

Start at: 2018-01-01 23:45:56

End at: 2018-01-01 23:46:26

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-01-01 23:58:13

End at: 2018-01-01 23:58:43

Below is generated by plot.py at 2018-01-02 03:06:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 53.23 Mbit/s

95th percentile per-packet one-way delay: 132.425 ms

Loss rate: 0.00%

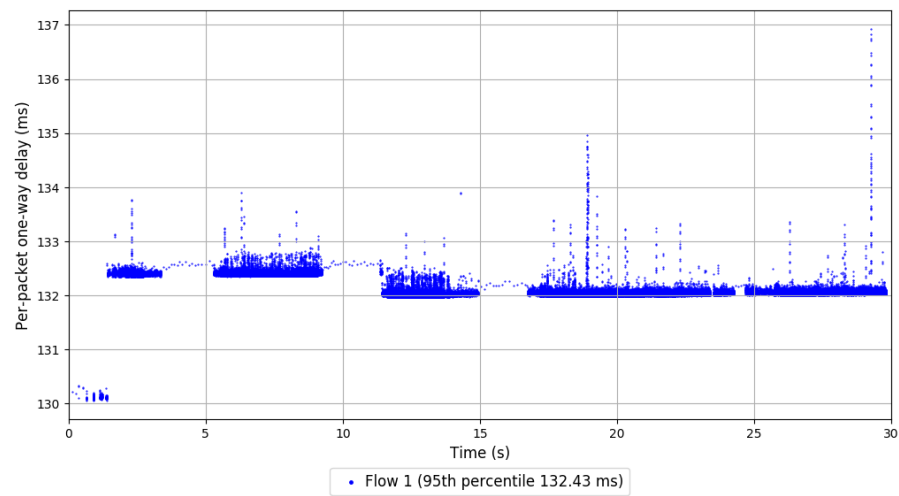
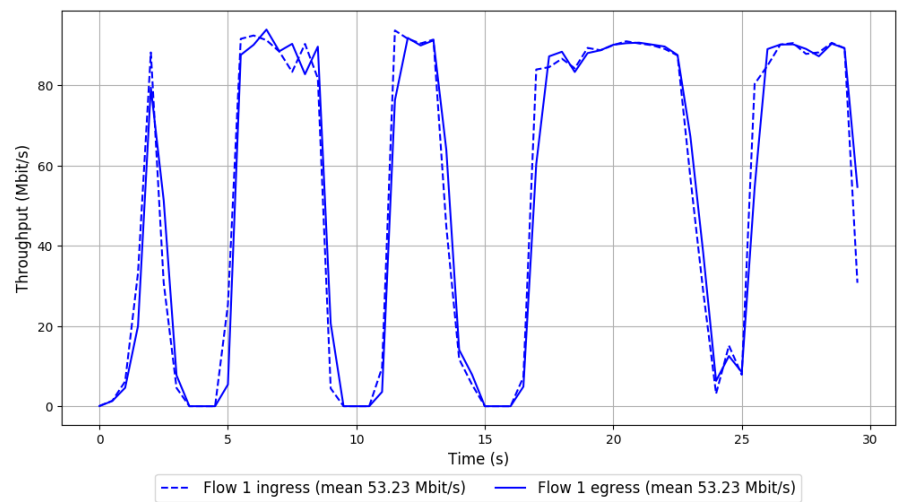
-- Flow 1:

Average throughput: 53.23 Mbit/s

95th percentile per-packet one-way delay: 132.425 ms

Loss rate: 0.00%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-01-02 00:10:23

End at: 2018-01-02 00:10:53

Below is generated by plot.py at 2018-01-02 03:06:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.29 Mbit/s

95th percentile per-packet one-way delay: 131.934 ms

Loss rate: 0.00%

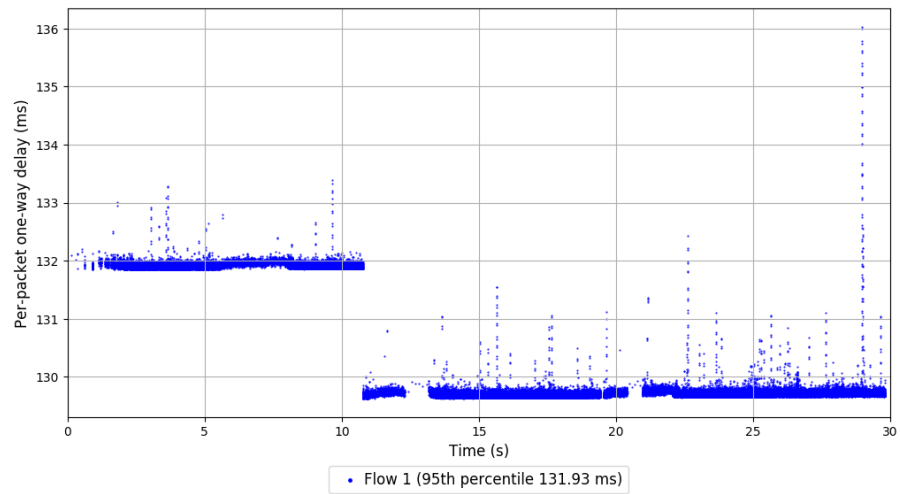
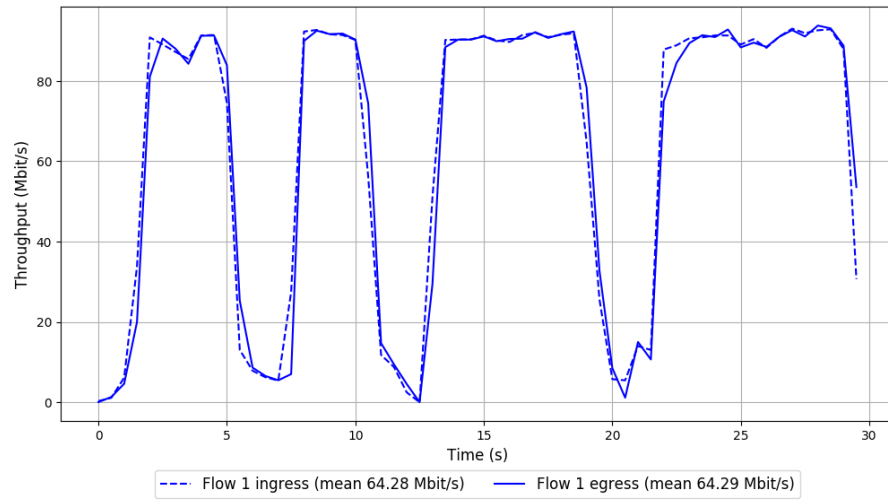
-- Flow 1:

Average throughput: 64.29 Mbit/s

95th percentile per-packet one-way delay: 131.934 ms

Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-01-02 00:22:42

End at: 2018-01-02 00:23:12

Below is generated by plot.py at 2018-01-02 03:06:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 62.93 Mbit/s

95th percentile per-packet one-way delay: 126.385 ms

Loss rate: 0.00%

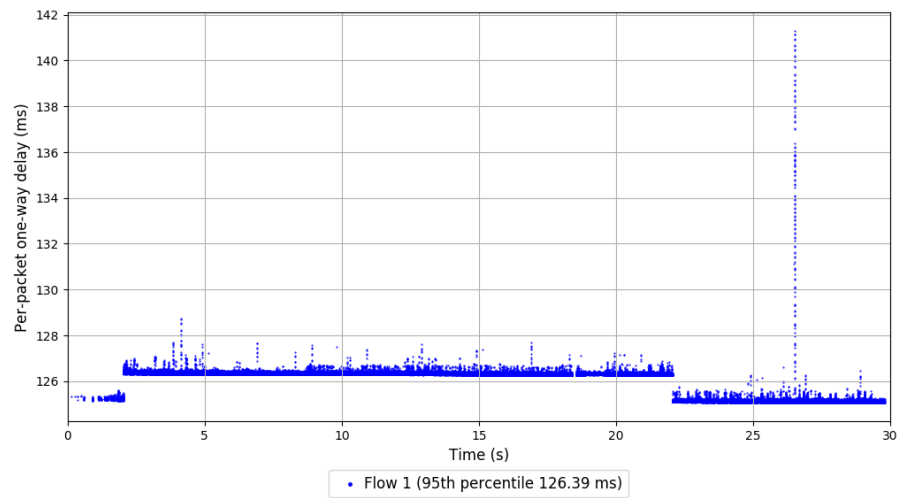
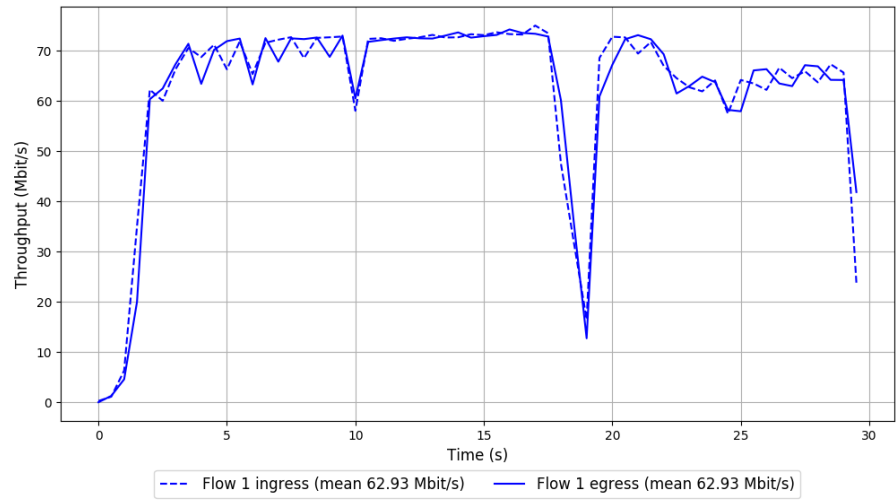
-- Flow 1:

Average throughput: 62.93 Mbit/s

95th percentile per-packet one-way delay: 126.385 ms

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-01-02 00:34:59

End at: 2018-01-02 00:35:29

Below is generated by plot.py at 2018-01-02 03:06:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 59.71 Mbit/s

95th percentile per-packet one-way delay: 126.203 ms

Loss rate: 0.00%

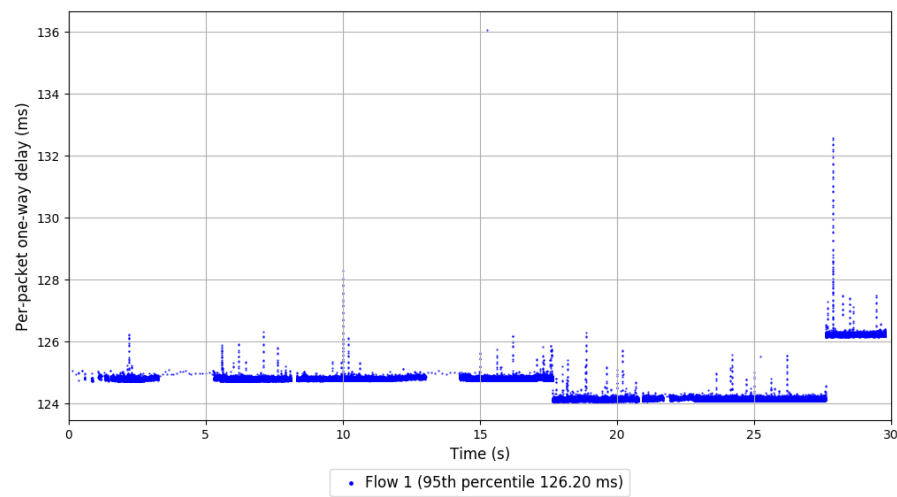
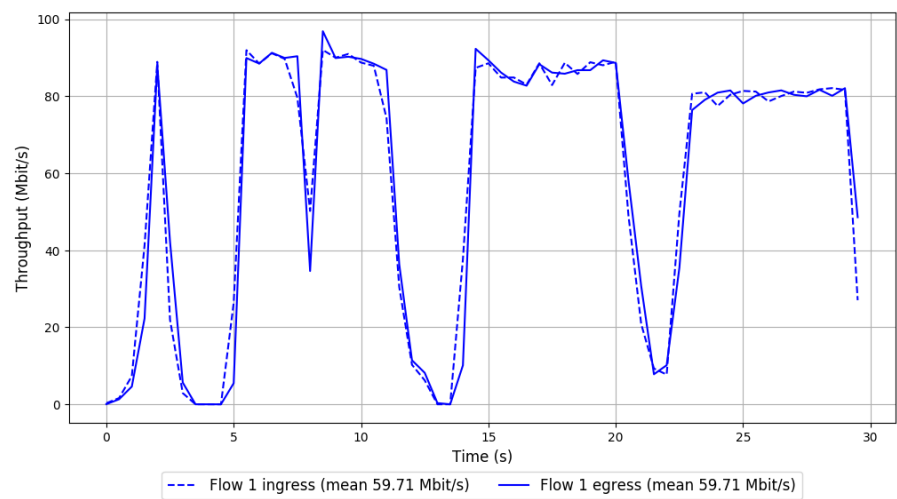
-- Flow 1:

Average throughput: 59.71 Mbit/s

95th percentile per-packet one-way delay: 126.203 ms

Loss rate: 0.00%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-01-02 00:47:29

End at: 2018-01-02 00:47:59

Below is generated by plot.py at 2018-01-02 03:06:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 61.40 Mbit/s

95th percentile per-packet one-way delay: 126.814 ms

Loss rate: 0.00%

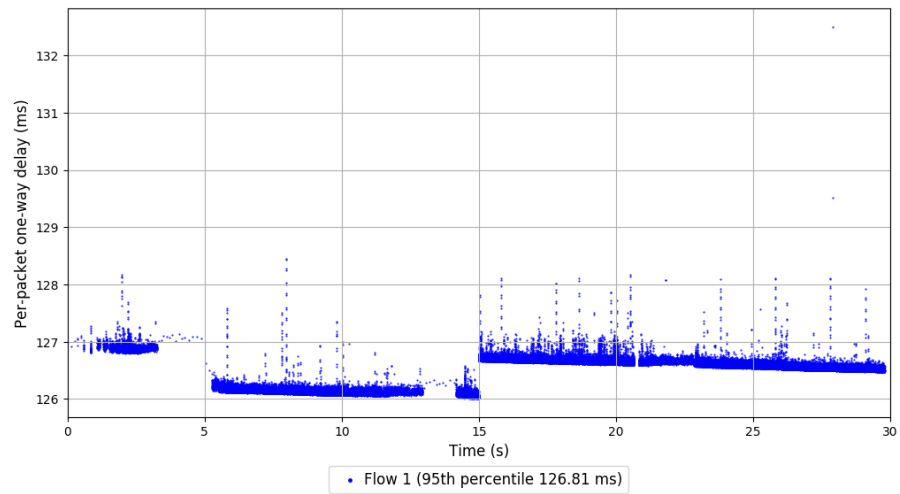
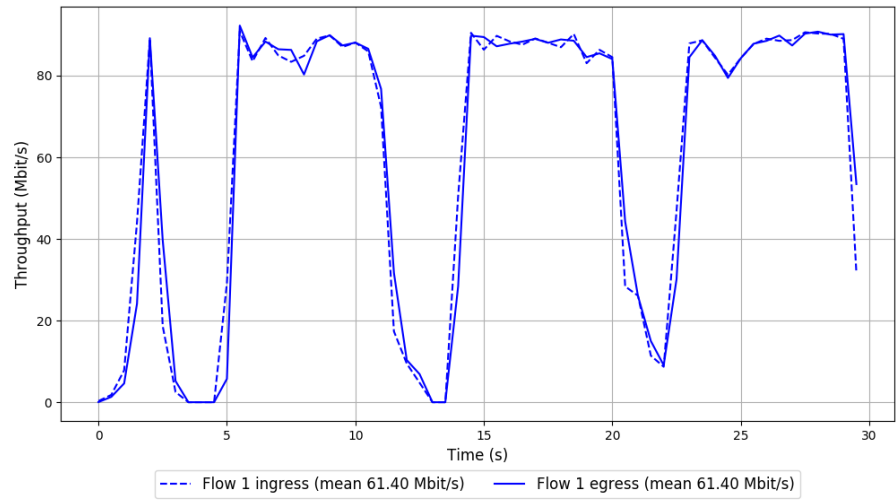
-- Flow 1:

Average throughput: 61.40 Mbit/s

95th percentile per-packet one-way delay: 126.814 ms

Loss rate: 0.00%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-01-02 00:59:59

End at: 2018-01-02 01:00:29

Below is generated by plot.py at 2018-01-02 03:06:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 59.22 Mbit/s

95th percentile per-packet one-way delay: 122.748 ms

Loss rate: 0.01%

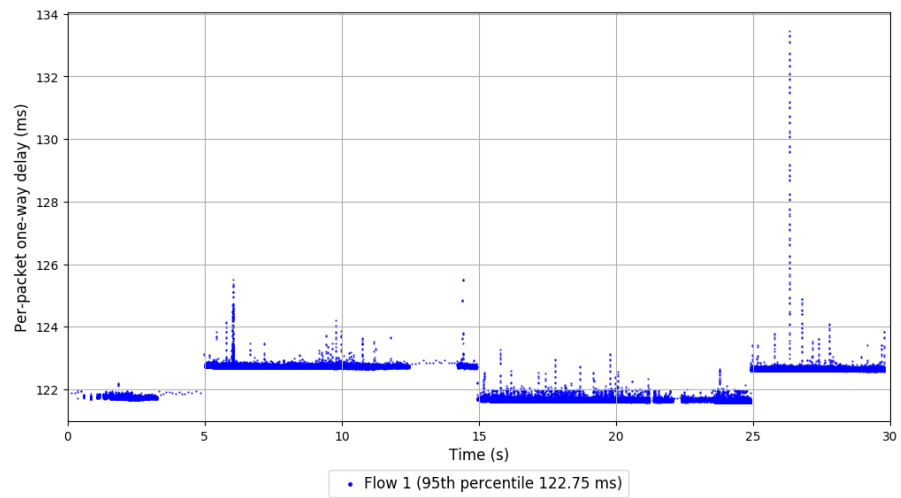
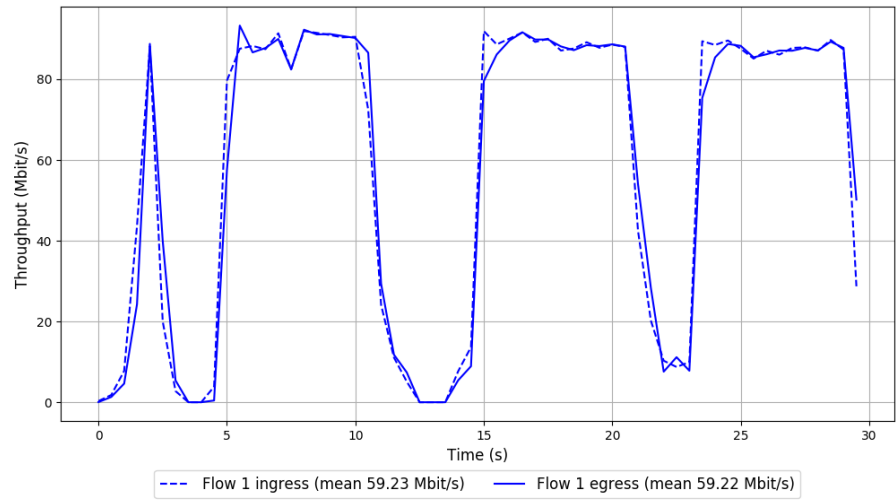
-- Flow 1:

Average throughput: 59.22 Mbit/s

95th percentile per-packet one-way delay: 122.748 ms

Loss rate: 0.01%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-01-02 01:12:21

End at: 2018-01-02 01:12:51

Below is generated by plot.py at 2018-01-02 03:06:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 61.32 Mbit/s

95th percentile per-packet one-way delay: 121.905 ms

Loss rate: 0.00%

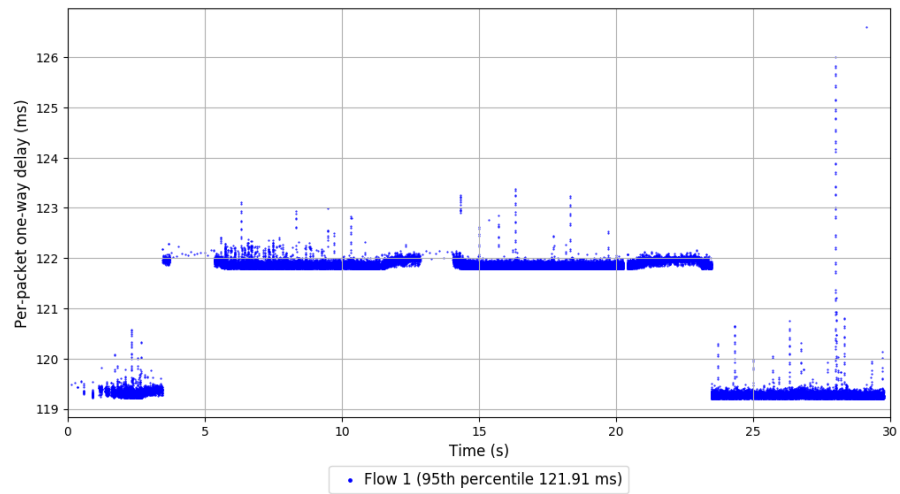
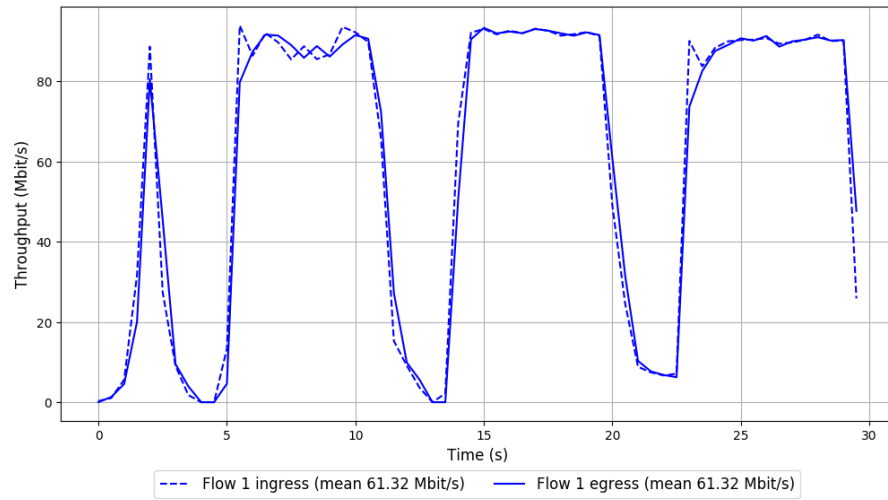
-- Flow 1:

Average throughput: 61.32 Mbit/s

95th percentile per-packet one-way delay: 121.905 ms

Loss rate: 0.00%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-01-02 01:24:27

End at: 2018-01-02 01:24:57

Below is generated by plot.py at 2018-01-02 03:06:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 60.32 Mbit/s

95th percentile per-packet one-way delay: 117.386 ms

Loss rate: 0.00%

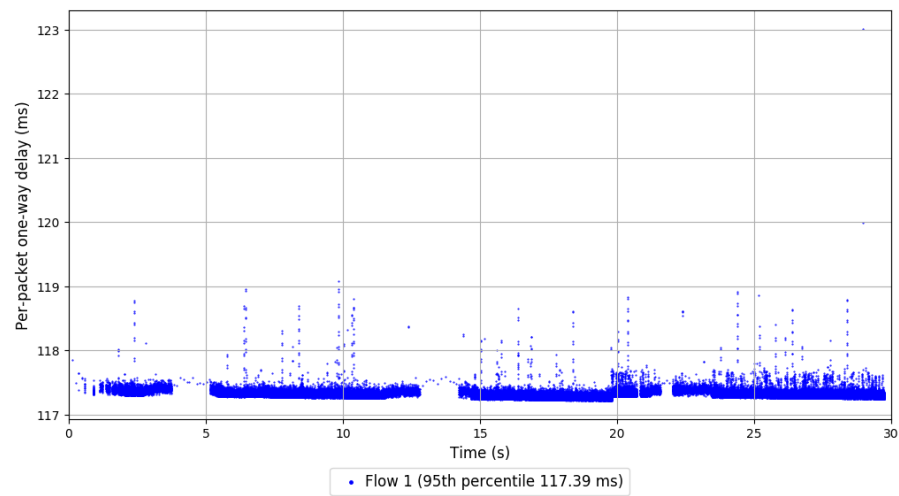
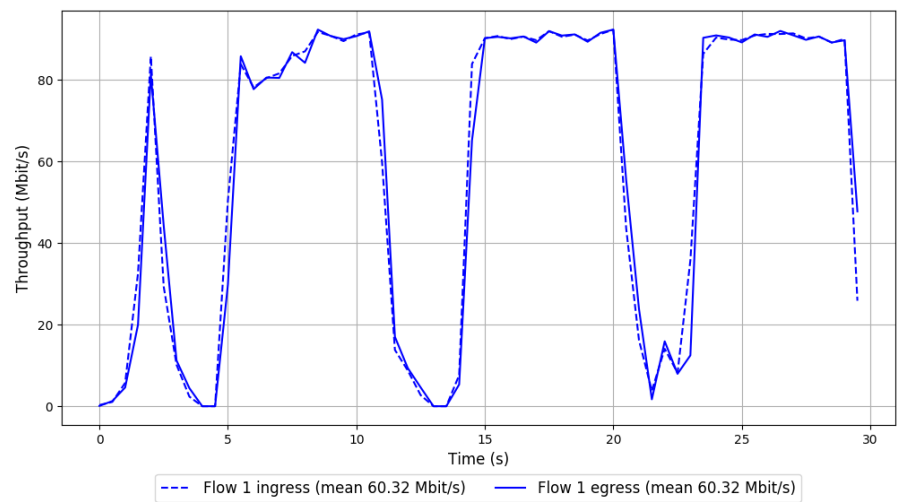
-- Flow 1:

Average throughput: 60.32 Mbit/s

95th percentile per-packet one-way delay: 117.386 ms

Loss rate: 0.00%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-01-02 01:36:56

End at: 2018-01-02 01:37:26

Below is generated by plot.py at 2018-01-02 03:06:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 55.69 Mbit/s

95th percentile per-packet one-way delay: 118.845 ms

Loss rate: 0.00%

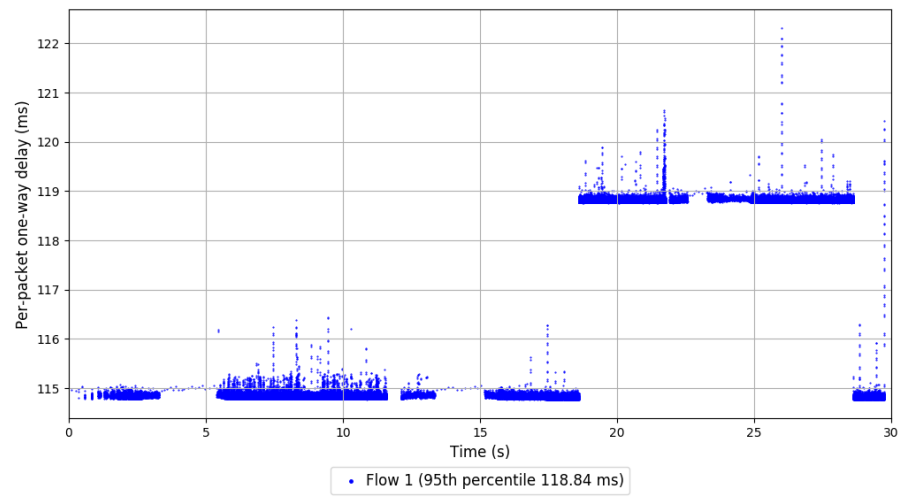
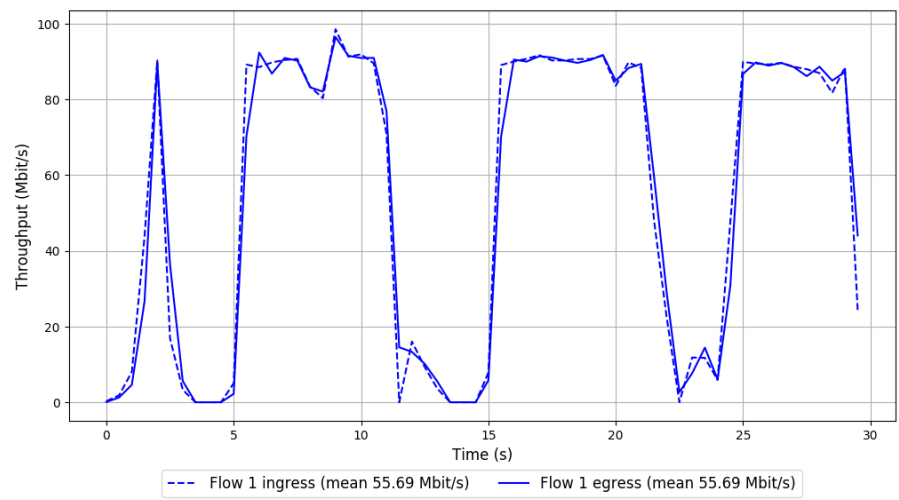
-- Flow 1:

Average throughput: 55.69 Mbit/s

95th percentile per-packet one-way delay: 118.845 ms

Loss rate: 0.00%

Run 10: Report of QUIC Cubic — Data Link

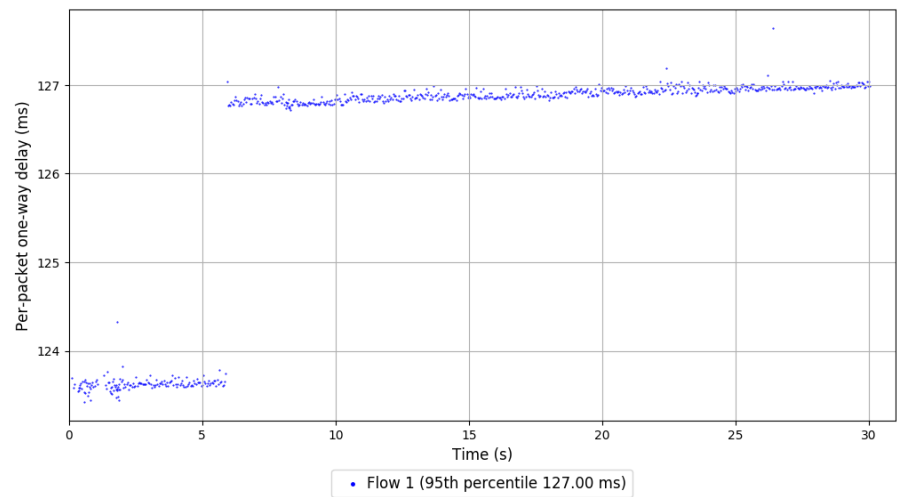
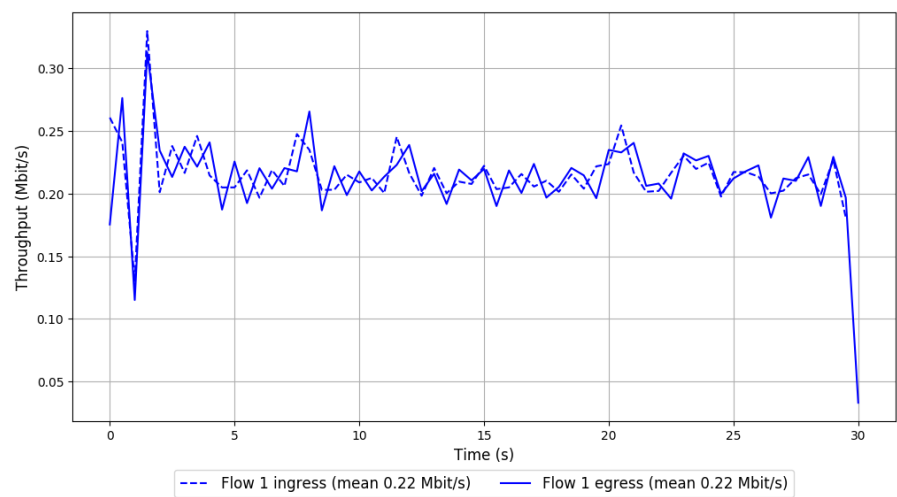


```
Run 1: Statistics of SCReAM

Start at: 2018-01-01 23:39:48
End at: 2018-01-01 23:40:19

# Below is generated by plot.py at 2018-01-02 03:06:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 126.996 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 126.996 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

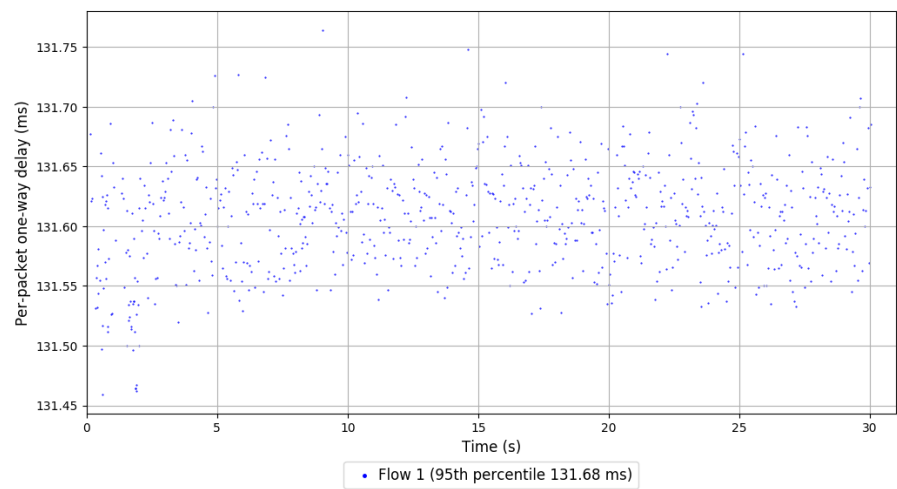
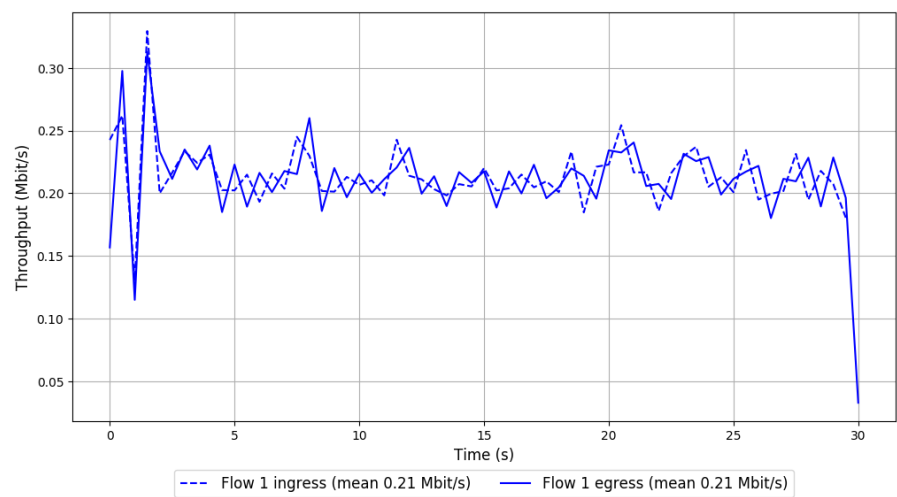


```
Run 2: Statistics of SCReAM

Start at: 2018-01-01 23:51:40
End at: 2018-01-01 23:52:10

# Below is generated by plot.py at 2018-01-02 03:06:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 131.682 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 131.682 ms
Loss rate: 0.00%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-01-02 00:03:56

End at: 2018-01-02 00:04:26

Below is generated by plot.py at 2018-01-02 03:06:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 131.907 ms

Loss rate: 0.00%

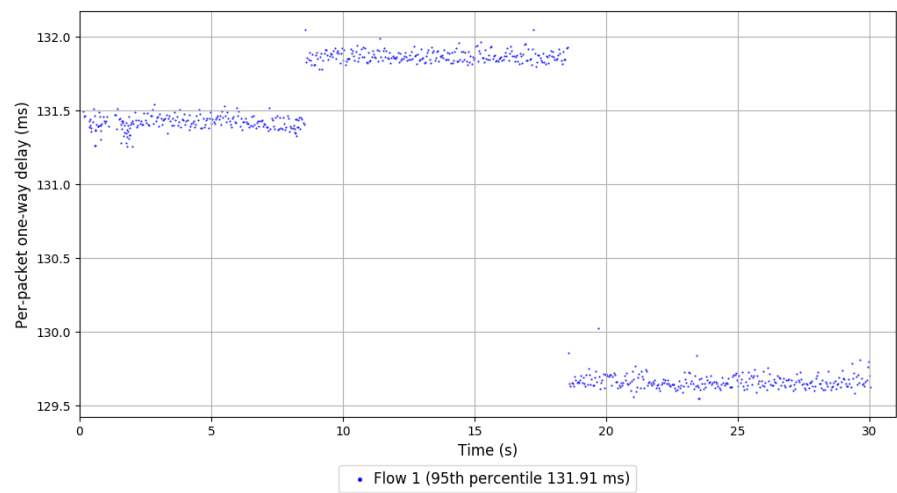
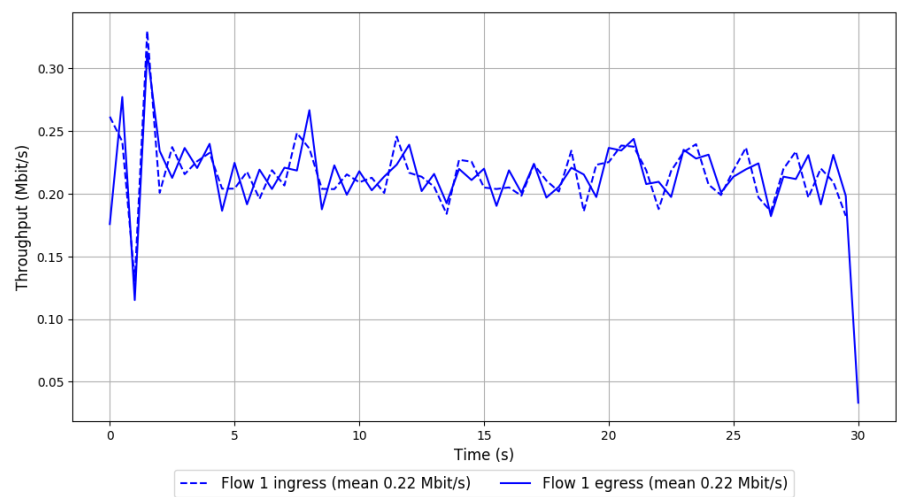
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 131.907 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link

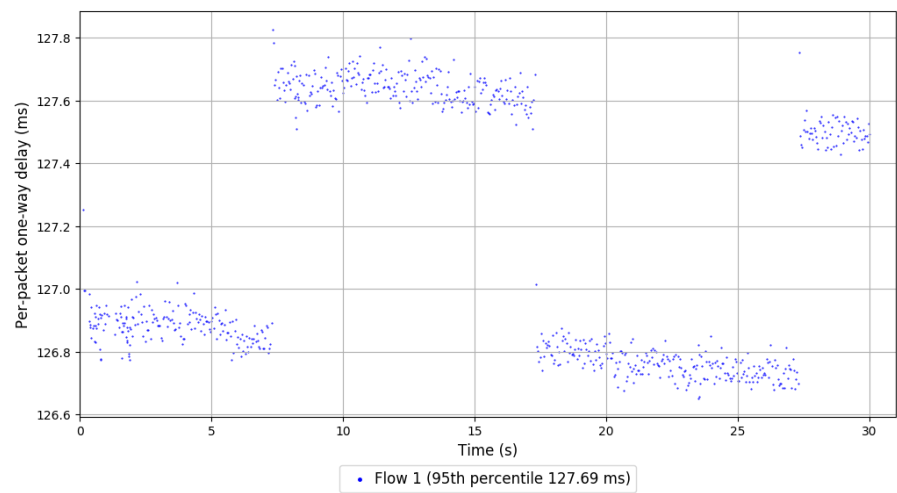
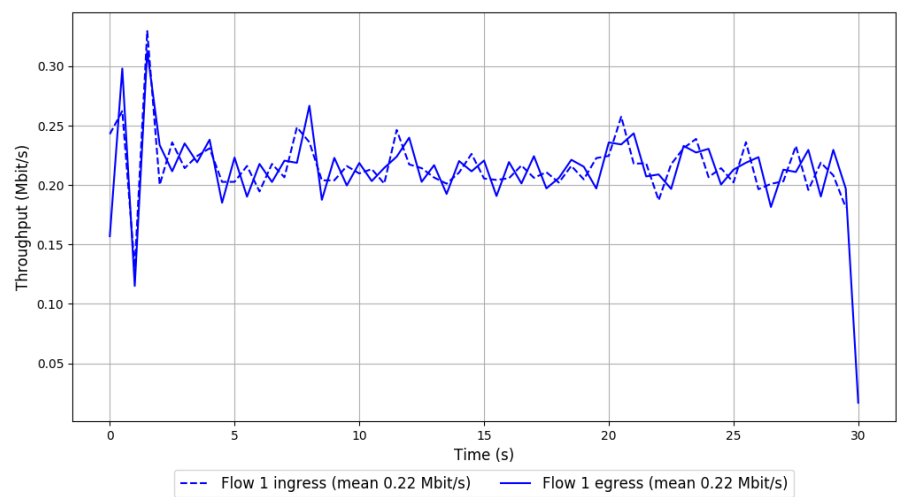


```
Run 4: Statistics of SCReAM

Start at: 2018-01-02 00:16:17
End at: 2018-01-02 00:16:47

# Below is generated by plot.py at 2018-01-02 03:06:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 127.691 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 127.691 ms
Loss rate: 0.12%
```

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-01-02 00:28:34

End at: 2018-01-02 00:29:04

Below is generated by plot.py at 2018-01-02 03:06:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 126.875 ms

Loss rate: 0.00%

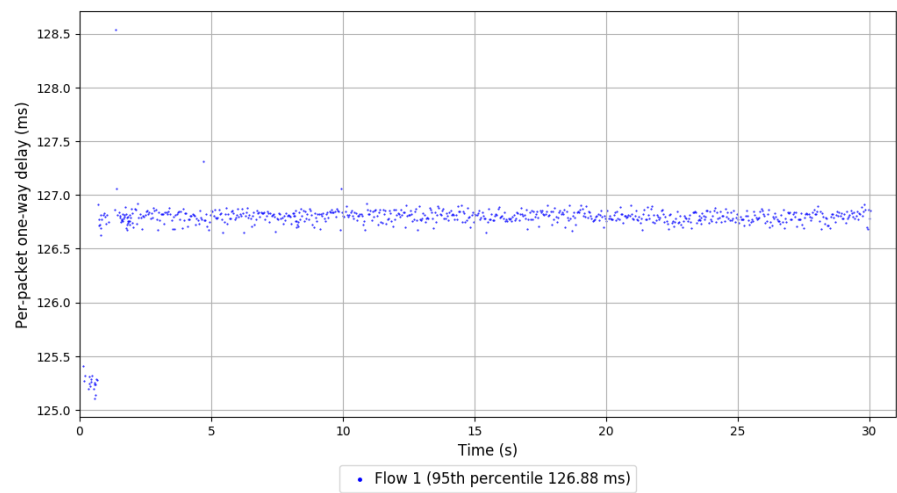
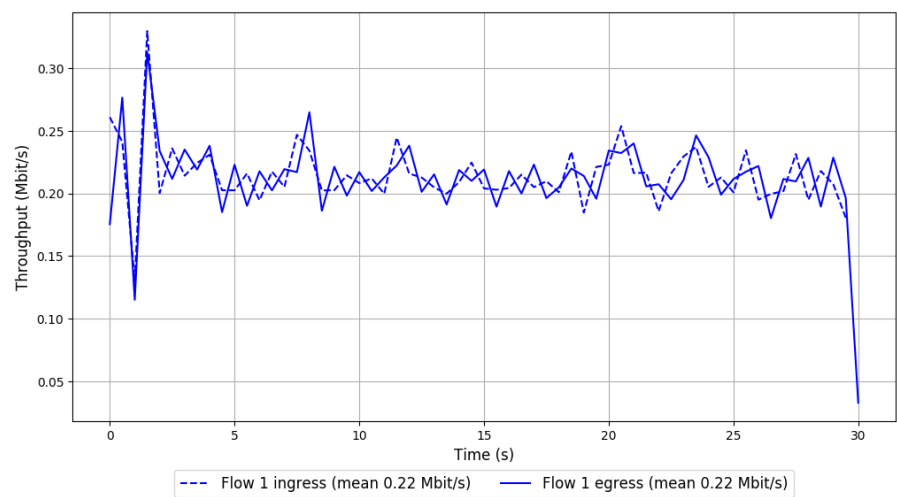
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 126.875 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-01-02 00:40:47

End at: 2018-01-02 00:41:17

Below is generated by plot.py at 2018-01-02 03:06:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 128.051 ms

Loss rate: 0.00%

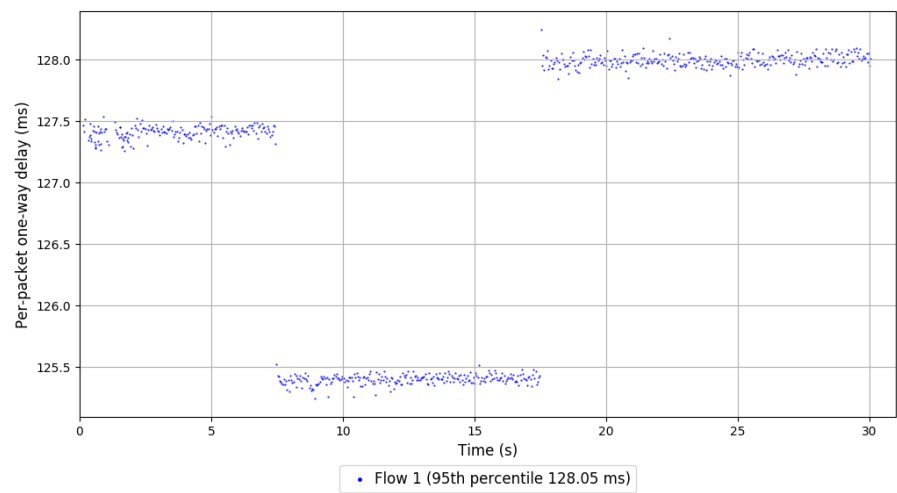
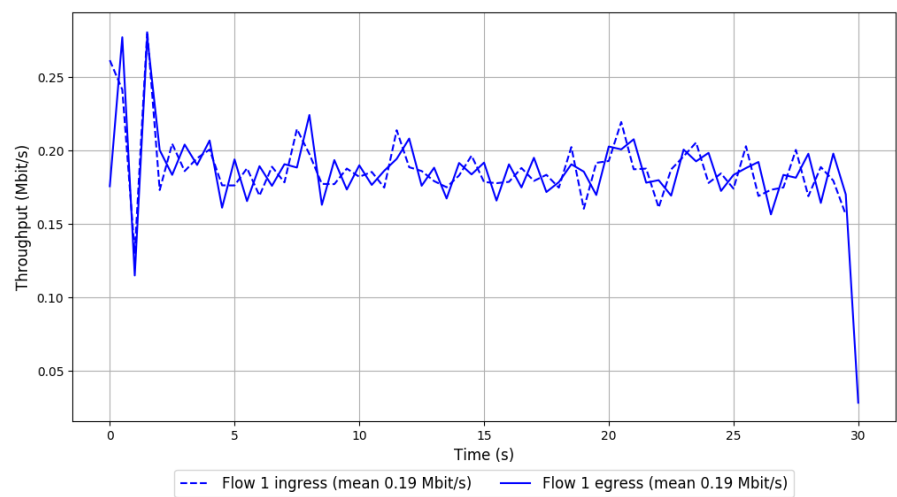
-- Flow 1:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 128.051 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link

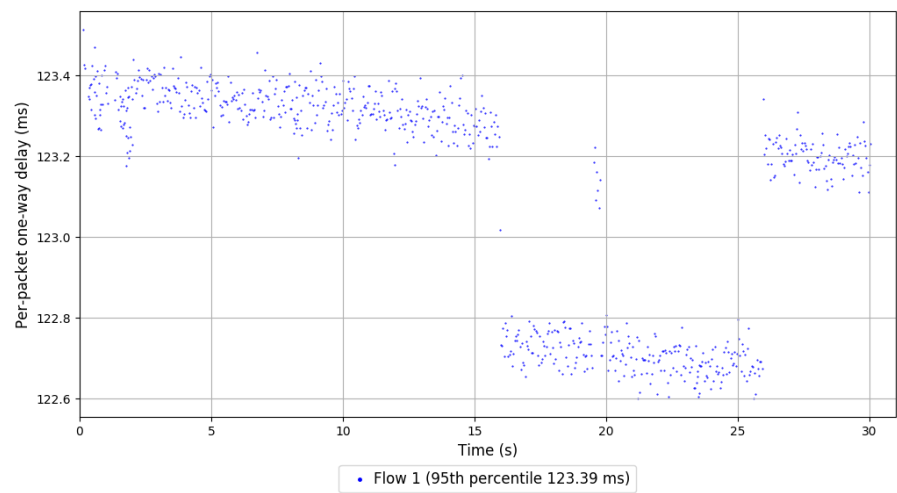
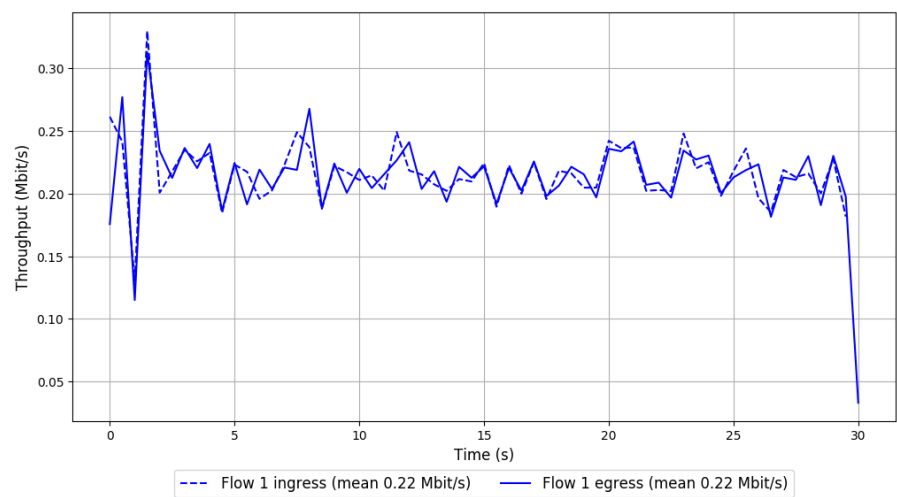


```
Run 7: Statistics of SCReAM

Start at: 2018-01-02 00:53:18
End at: 2018-01-02 00:53:48

# Below is generated by plot.py at 2018-01-02 03:06:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 123.395 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 123.395 ms
Loss rate: 0.00%
```


Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-01-02 01:05:49

End at: 2018-01-02 01:06:19

Below is generated by plot.py at 2018-01-02 03:06:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 123.142 ms

Loss rate: 0.00%

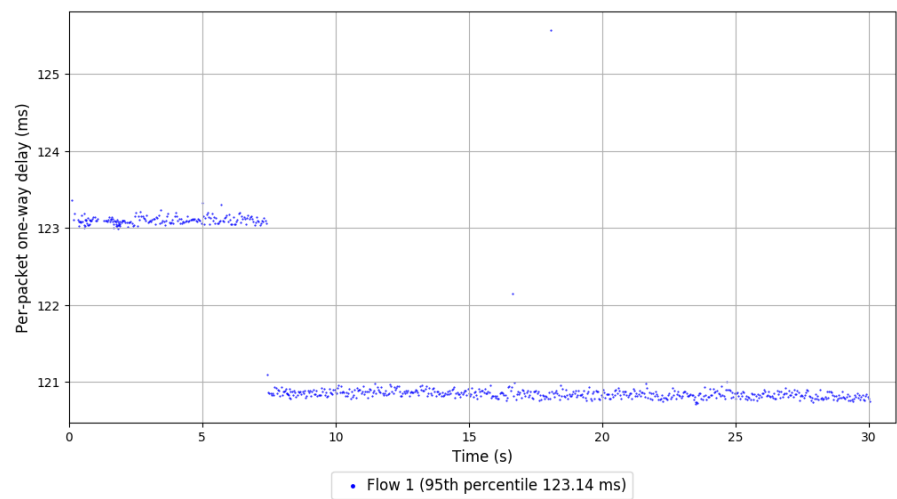
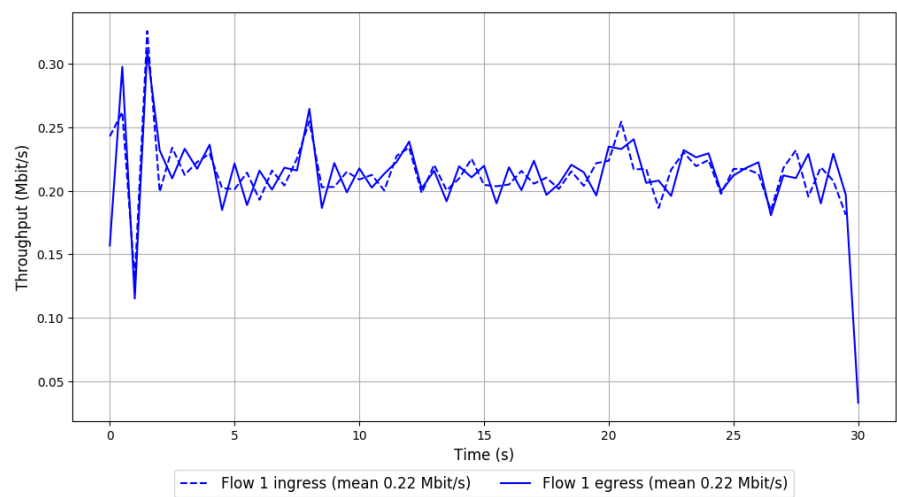
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 123.142 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-01-02 01:18:04

End at: 2018-01-02 01:18:34

Below is generated by plot.py at 2018-01-02 03:06:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.17 Mbit/s

95th percentile per-packet one-way delay: 122.534 ms

Loss rate: 0.00%

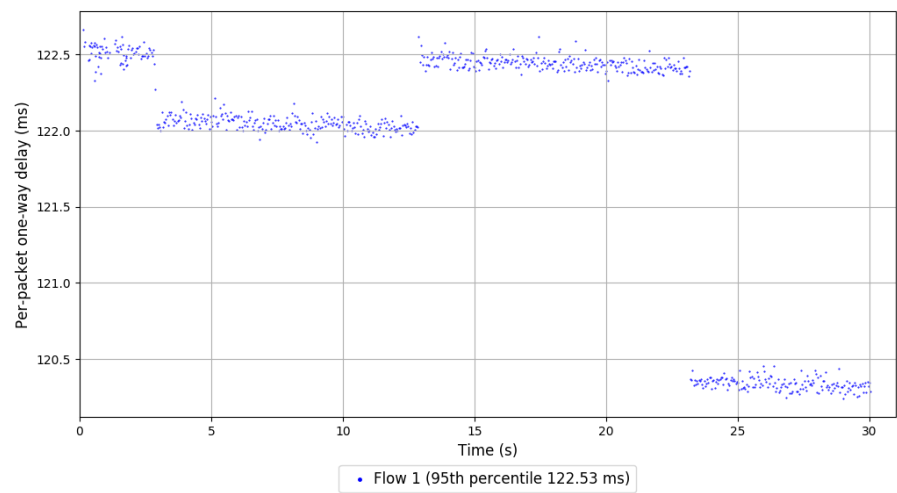
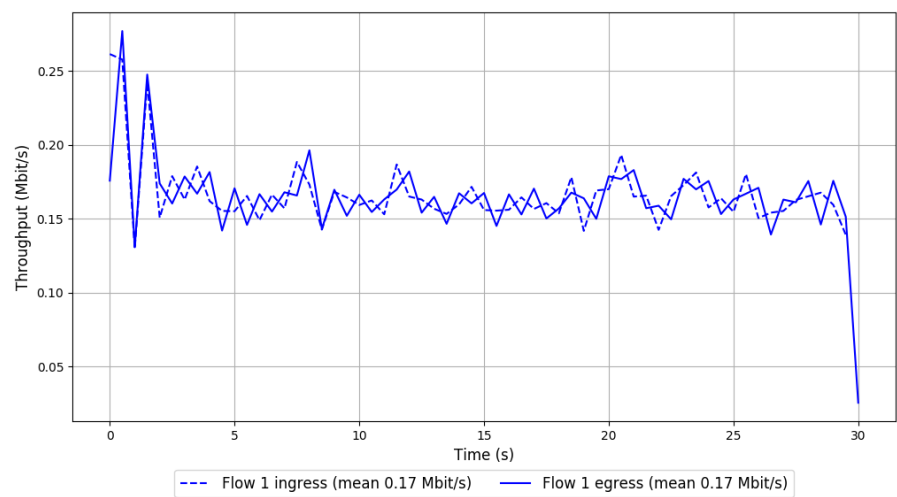
-- Flow 1:

Average throughput: 0.17 Mbit/s

95th percentile per-packet one-way delay: 122.534 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link

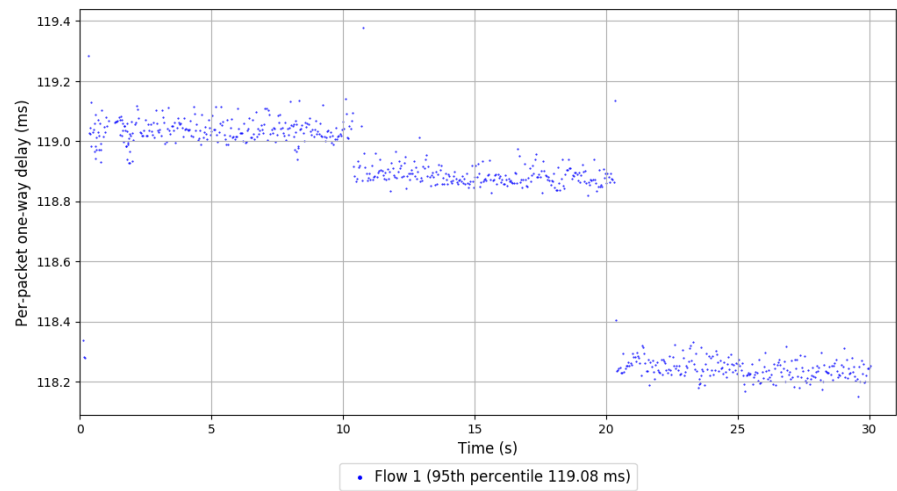
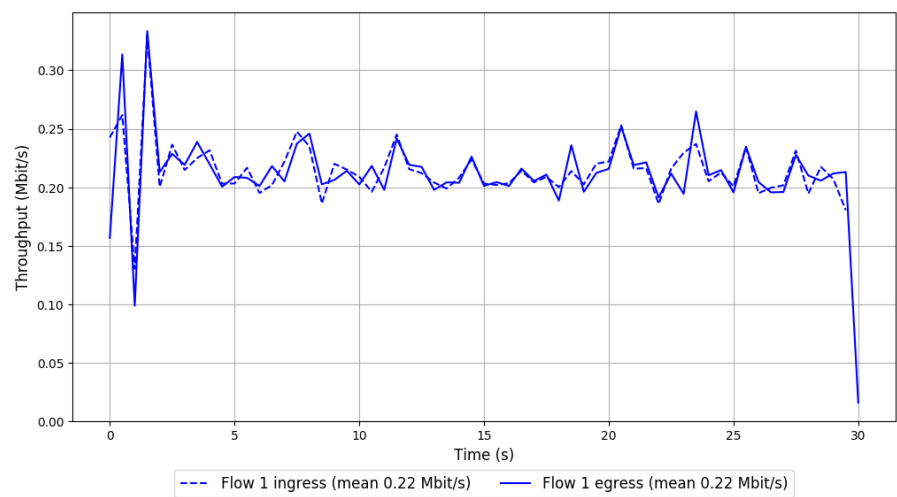


```
Run 10: Statistics of SReAM

Start at: 2018-01-02 01:30:24
End at: 2018-01-02 01:30:54

# Below is generated by plot.py at 2018-01-02 03:06:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 119.075 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 119.075 ms
Loss rate: 0.00%
```

Run 10: Report of SReAM — Data Link

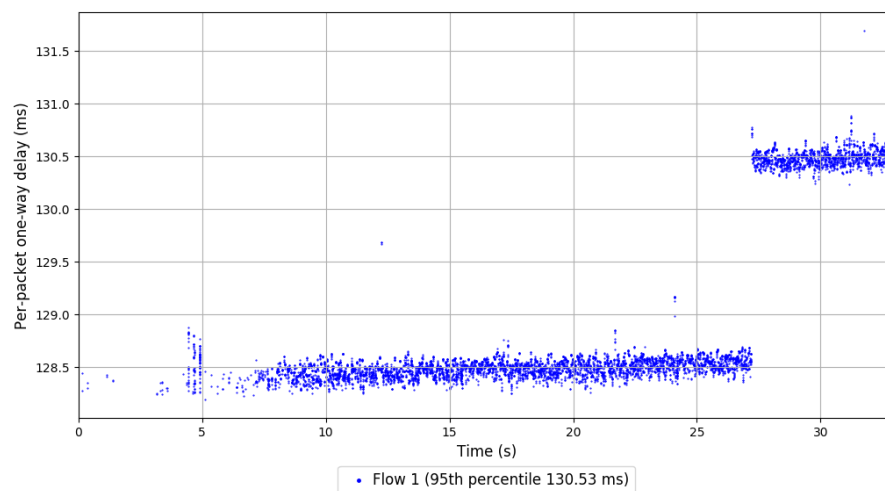
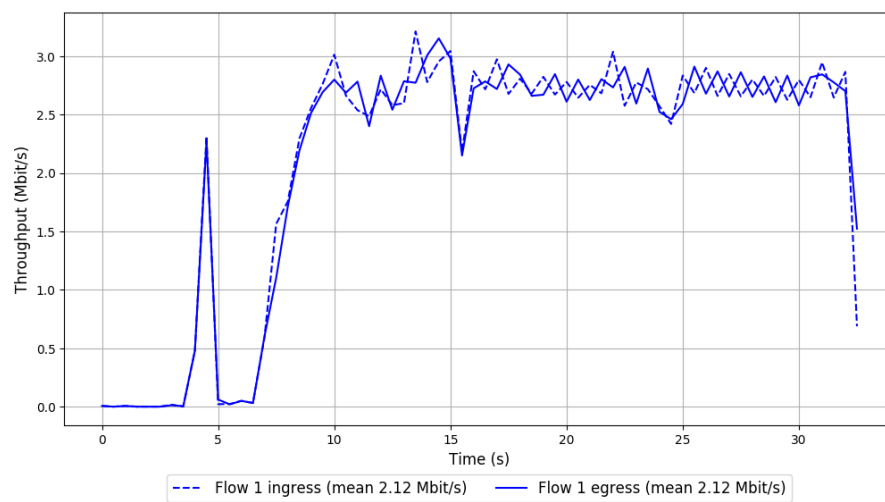


```
Run 1: Statistics of WebRTC media

Start at: 2018-01-01 23:47:22
End at: 2018-01-01 23:47:52

# Below is generated by plot.py at 2018-01-02 03:06:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.12 Mbit/s
95th percentile per-packet one-way delay: 130.535 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.12 Mbit/s
95th percentile per-packet one-way delay: 130.535 ms
Loss rate: 0.00%
```


Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-01-01 23:59:43

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

Below is generated by plot.py at 2018-01-02 03:06:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 132.168 ms

Loss rate: 0.00%

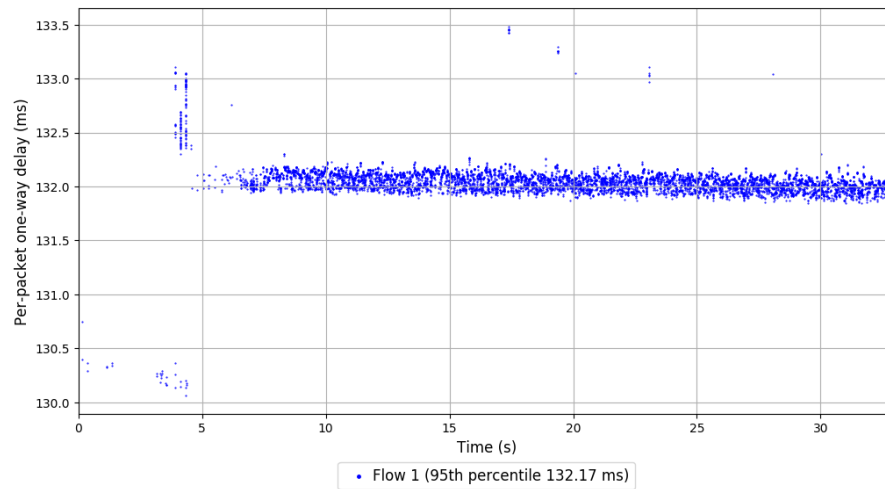
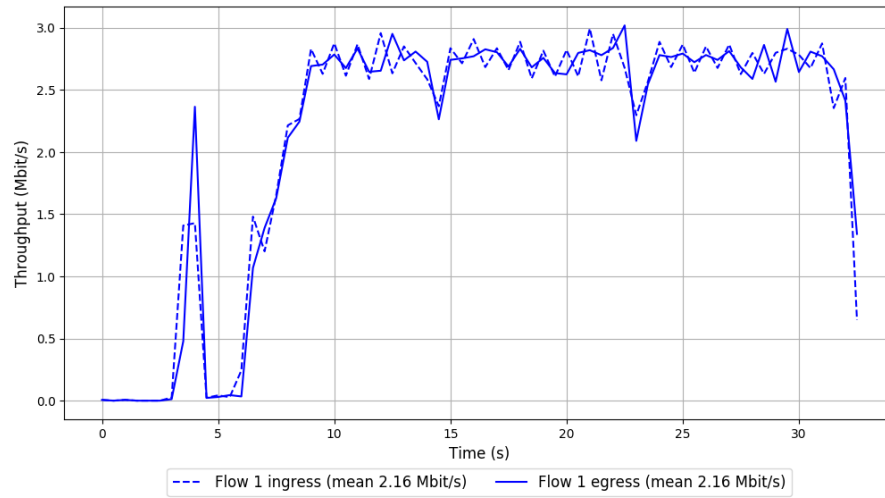
-- Flow 1:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 132.168 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-01-02 00:11:54

End at: 2018-01-02 00:12:24

Below is generated by plot.py at 2018-01-02 03:06:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 130.094 ms

Loss rate: 0.00%

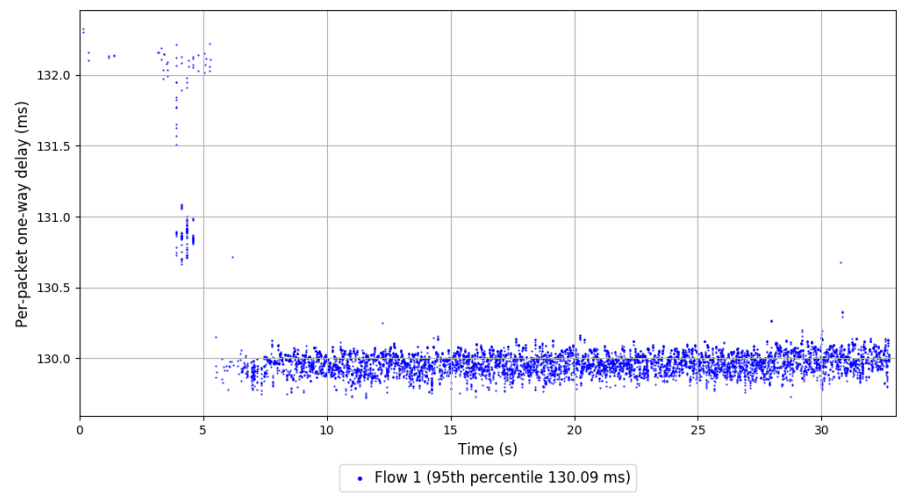
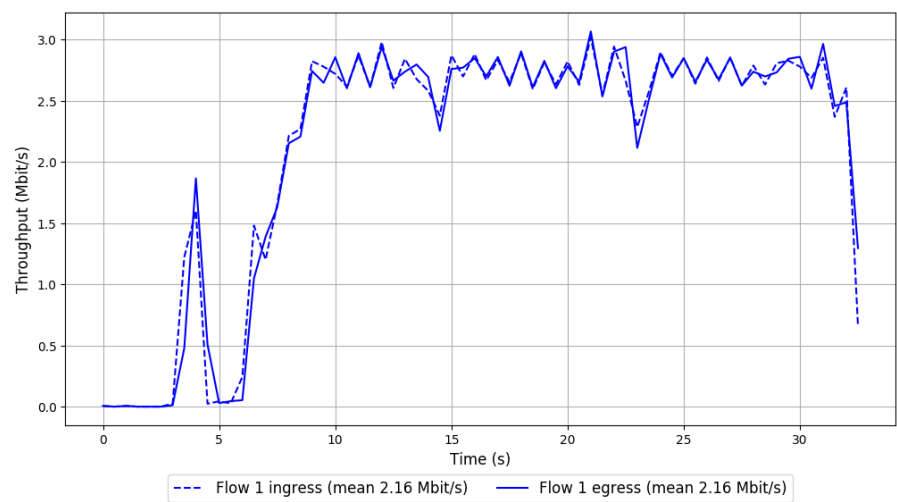
-- Flow 1:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 130.094 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-01-02 00:24:12

End at: 2018-01-02 00:24:42

Below is generated by plot.py at 2018-01-02 03:06:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 127.535 ms

Loss rate: 0.00%

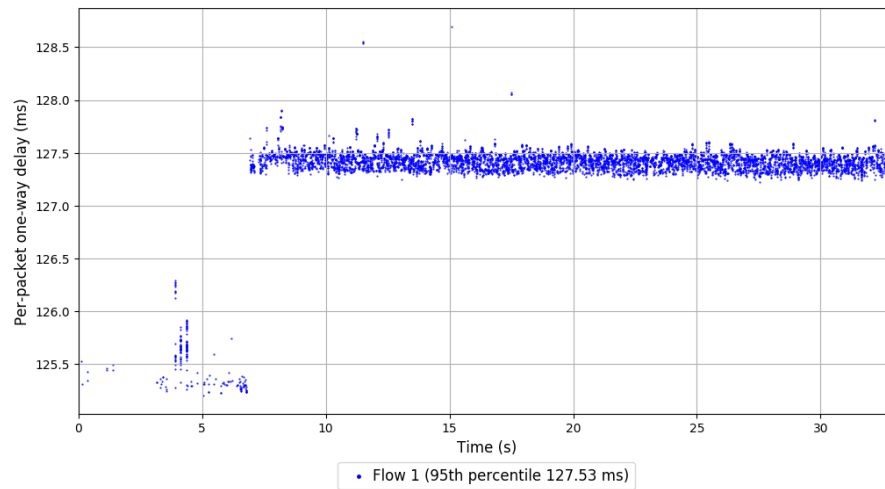
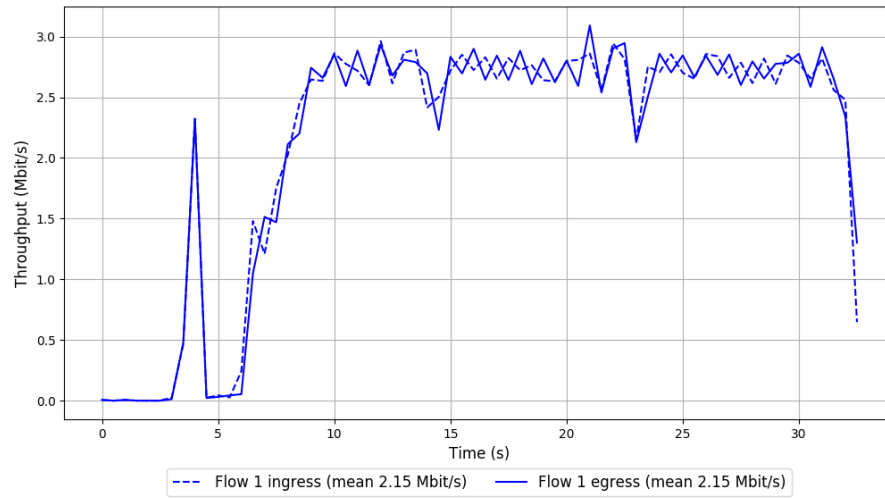
-- Flow 1:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 127.535 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-01-02 00:36:28

End at: 2018-01-02 00:36:58

Below is generated by plot.py at 2018-01-02 03:06:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 126.749 ms

Loss rate: 0.00%

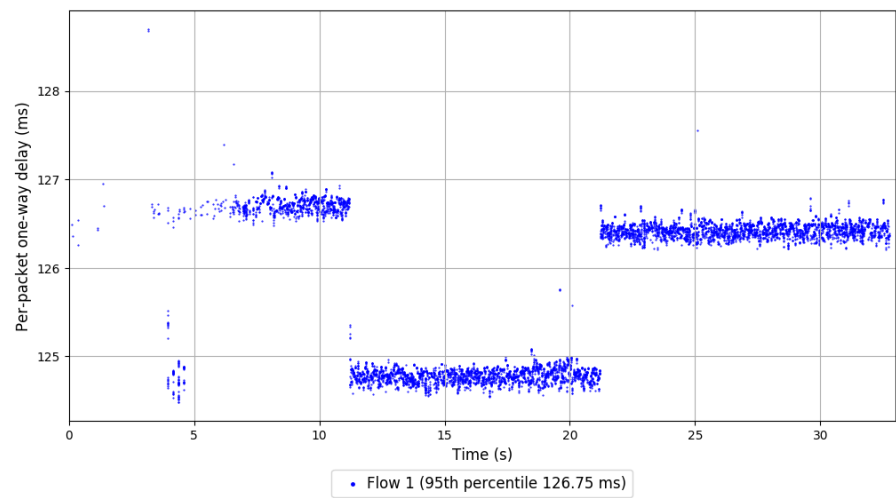
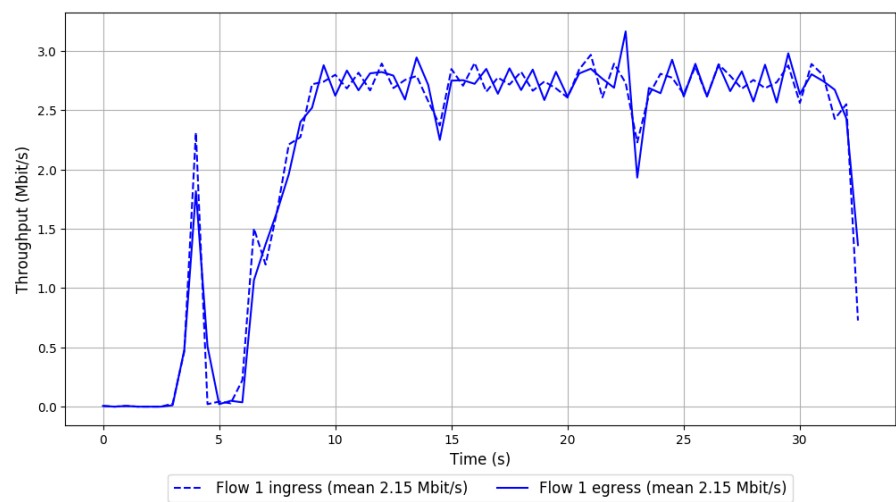
-- Flow 1:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 126.749 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-01-02 00:49:00

End at: 2018-01-02 00:49:30

Below is generated by plot.py at 2018-01-02 03:06:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 127.164 ms

Loss rate: 0.00%

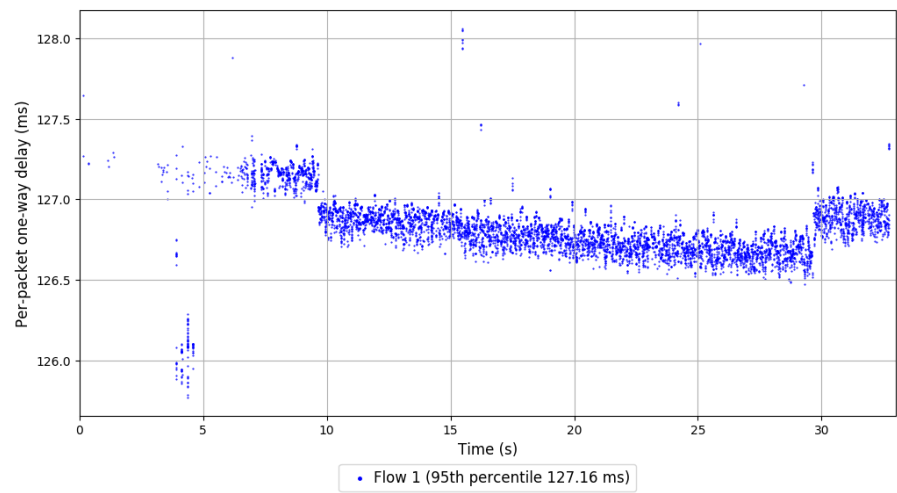
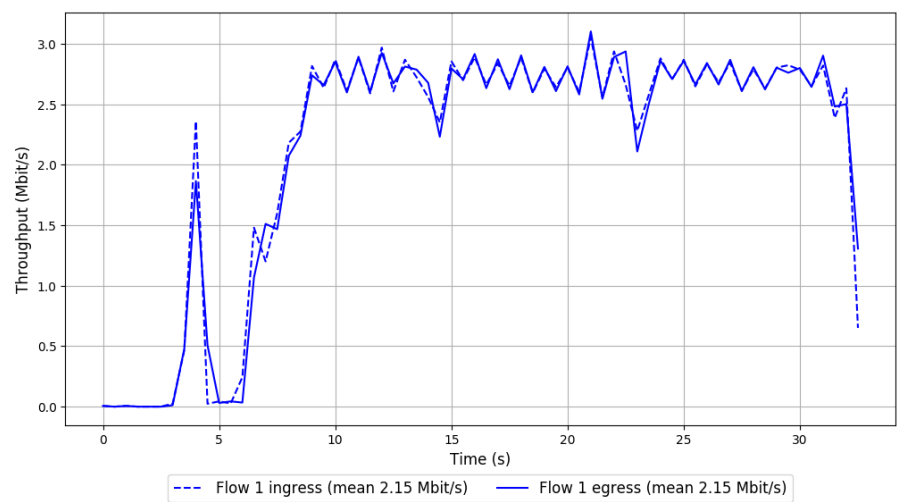
-- Flow 1:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 127.164 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link

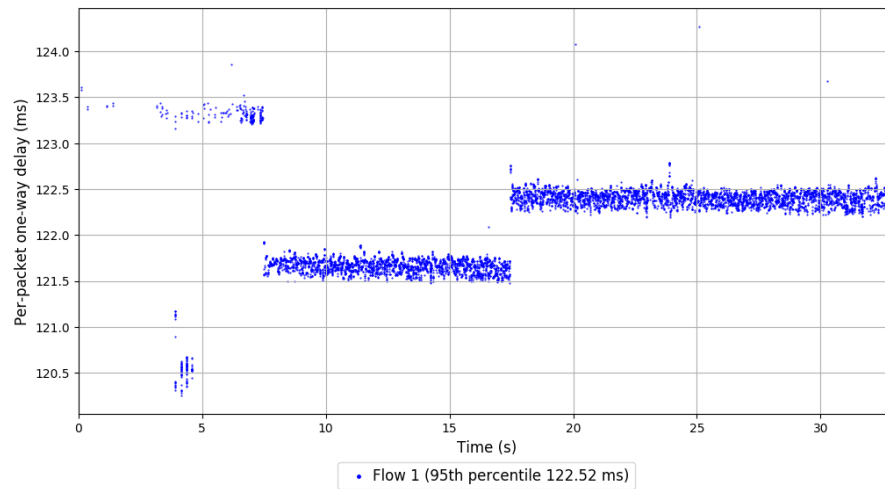
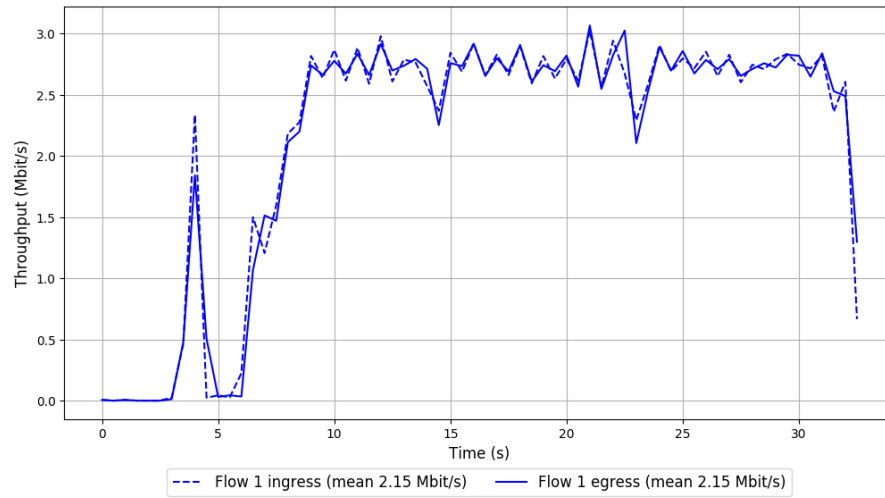


```
Run 7: Statistics of WebRTC media

Start at: 2018-01-02 01:01:30
End at: 2018-01-02 01:02:00

# Below is generated by plot.py at 2018-01-02 03:06:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.15 Mbit/s
95th percentile per-packet one-way delay: 122.523 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.15 Mbit/s
95th percentile per-packet one-way delay: 122.523 ms
Loss rate: 0.00%
```

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-01-02 01:13:50

End at: 2018-01-02 01:14:20

Below is generated by plot.py at 2018-01-02 03:06:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 121.135 ms

Loss rate: 0.00%

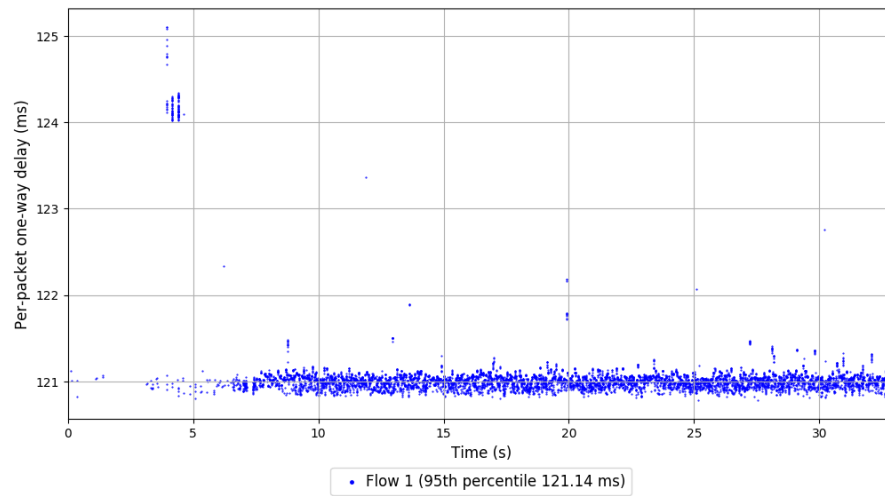
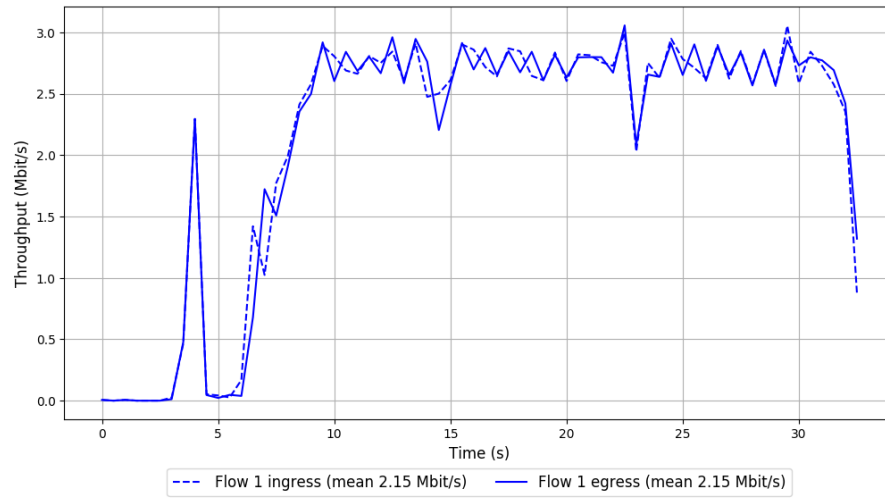
-- Flow 1:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 121.135 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-01-02 01:25:58

End at: 2018-01-02 01:26:28

Below is generated by plot.py at 2018-01-02 03:06:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 119.859 ms

Loss rate: 0.00%

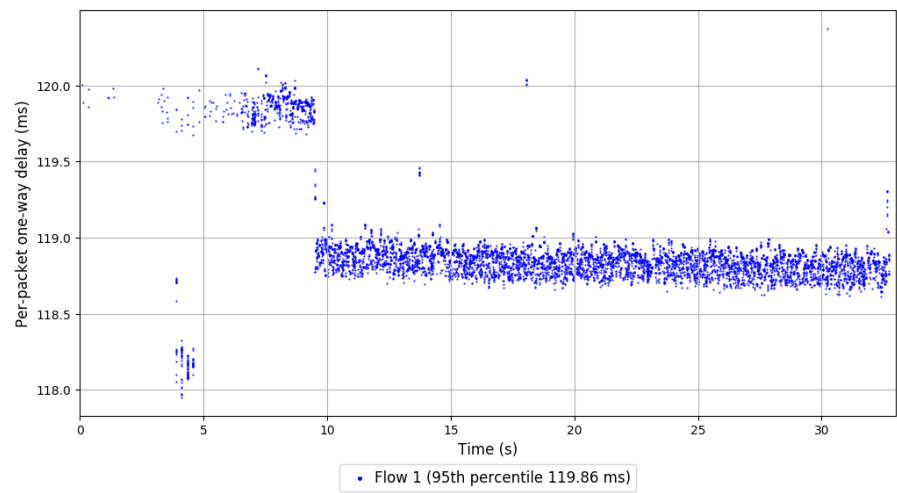
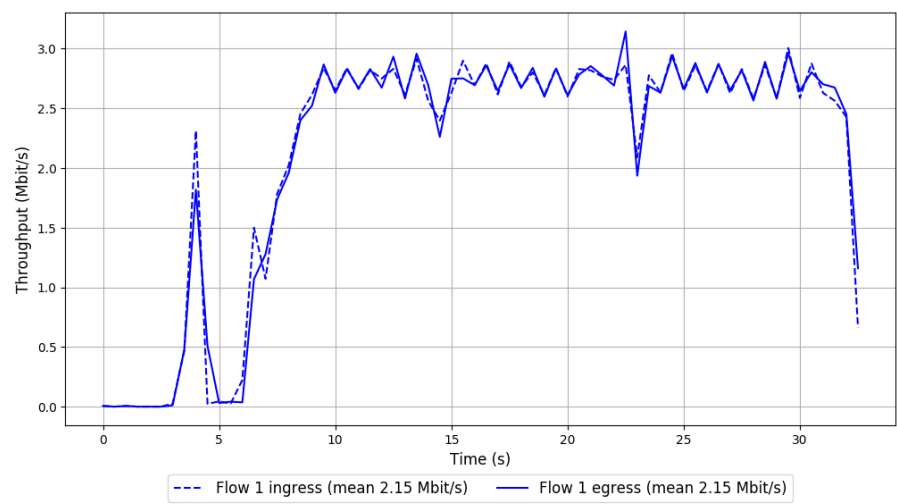
-- Flow 1:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 119.859 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-01-02 01:38:26

End at: 2018-01-02 01:38:56

Below is generated by plot.py at 2018-01-02 03:06:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 119.147 ms

Loss rate: 0.00%

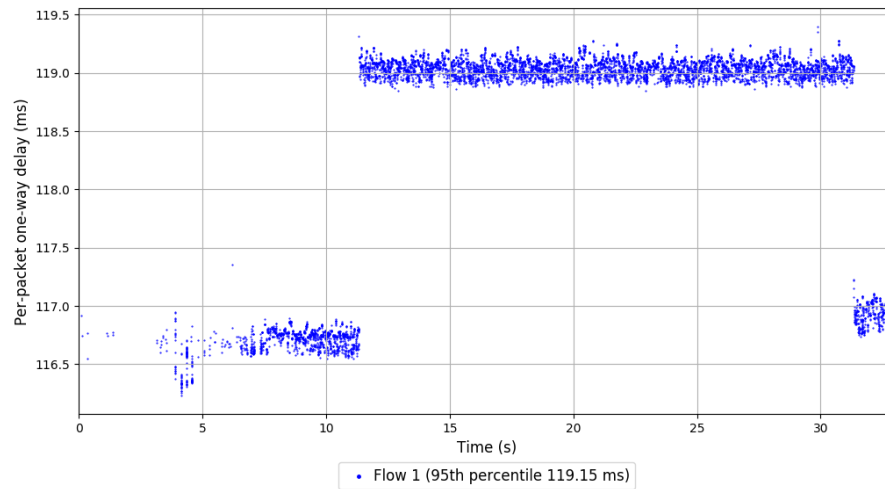
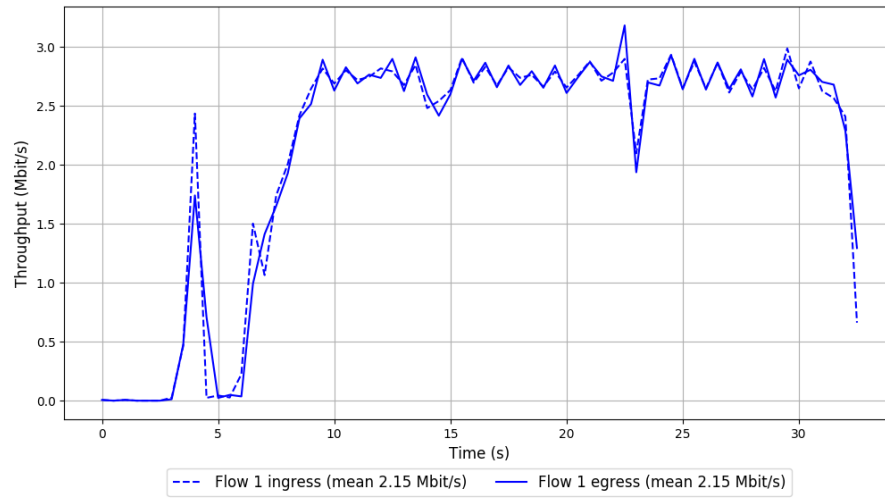
-- Flow 1:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 119.147 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

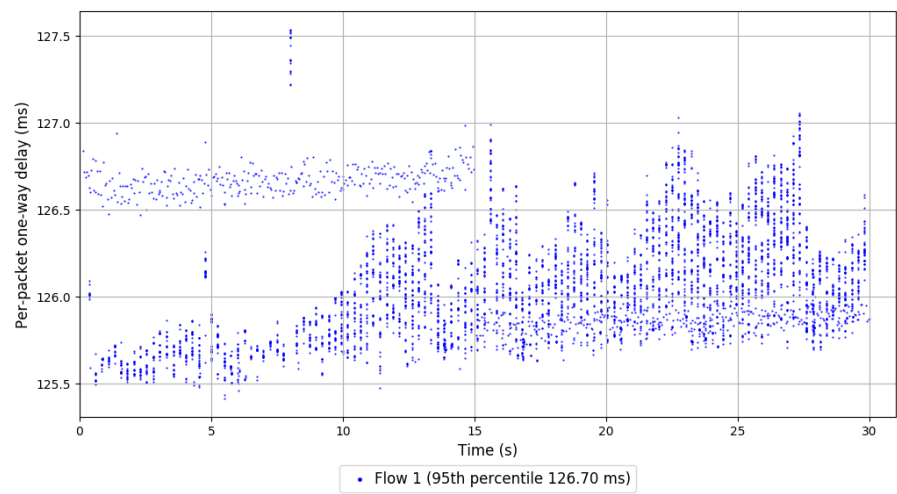
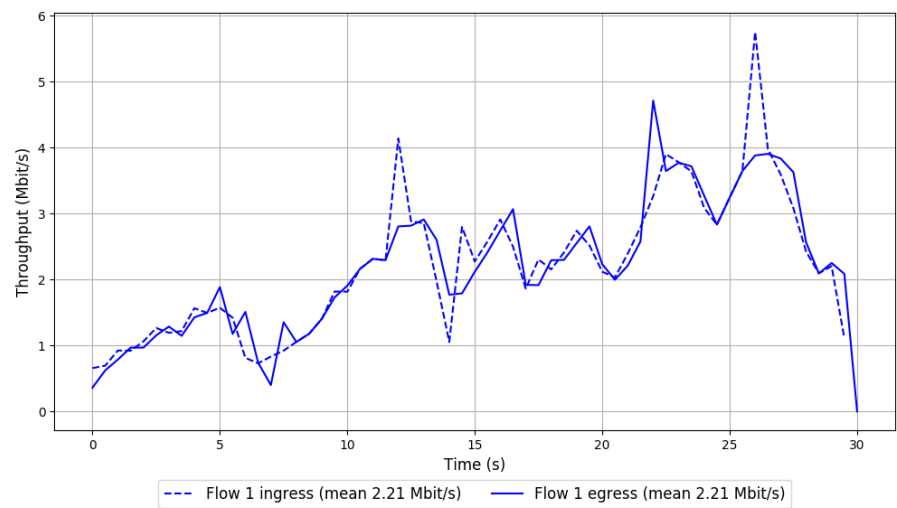


```
Run 1: Statistics of Sprout

Start at: 2018-01-01 23:42:02
End at: 2018-01-01 23:42:32

# Below is generated by plot.py at 2018-01-02 03:06:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.21 Mbit/s
95th percentile per-packet one-way delay: 126.697 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.21 Mbit/s
95th percentile per-packet one-way delay: 126.697 ms
Loss rate: 0.00%
```

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-01-01 23:53:55

End at: 2018-01-01 23:54:25

Below is generated by plot.py at 2018-01-02 03:06:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.27 Mbit/s

95th percentile per-packet one-way delay: 132.643 ms

Loss rate: 0.00%

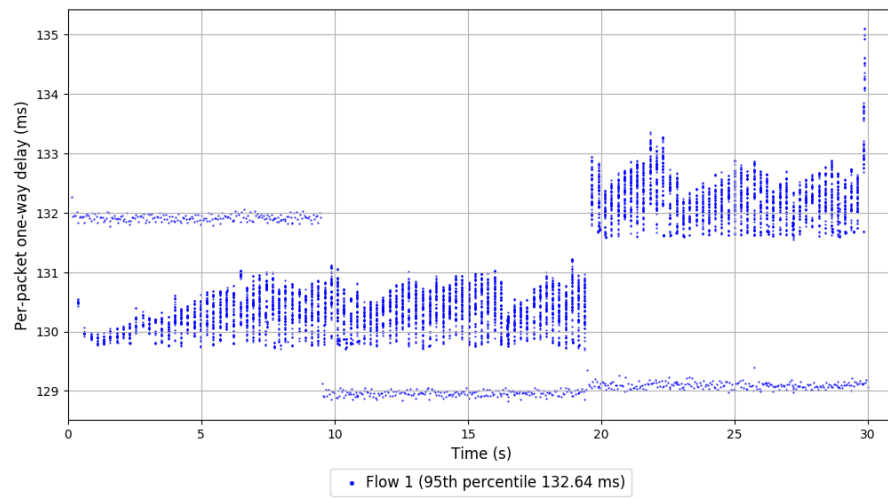
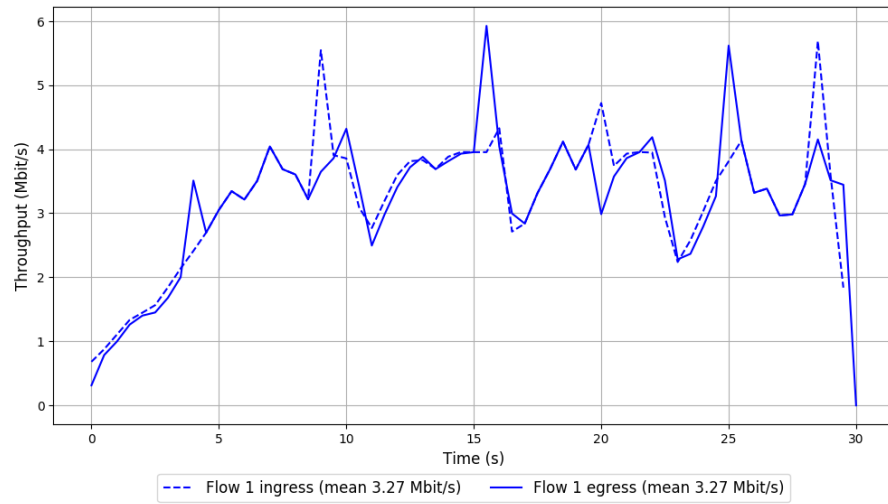
-- Flow 1:

Average throughput: 3.27 Mbit/s

95th percentile per-packet one-way delay: 132.643 ms

Loss rate: 0.00%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-01-02 00:06:11

End at: 2018-01-02 00:06:41

Below is generated by plot.py at 2018-01-02 03:06:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.07 Mbit/s

95th percentile per-packet one-way delay: 132.565 ms

Loss rate: 0.05%

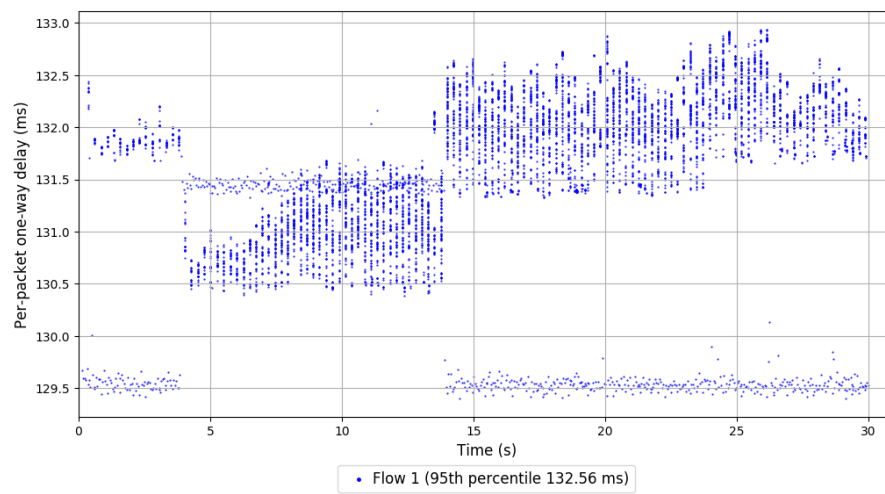
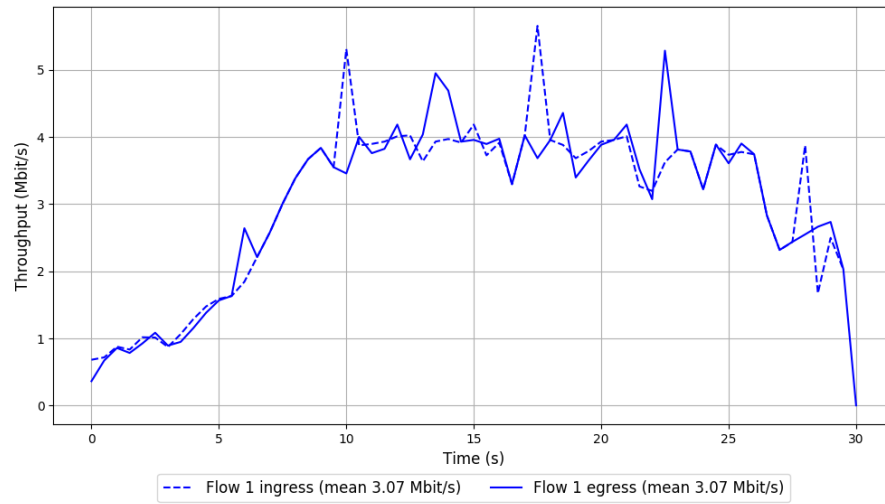
-- Flow 1:

Average throughput: 3.07 Mbit/s

95th percentile per-packet one-way delay: 132.565 ms

Loss rate: 0.05%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-01-02 00:18:31

End at: 2018-01-02 00:19:01

Below is generated by plot.py at 2018-01-02 03:06:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.36 Mbit/s

95th percentile per-packet one-way delay: 129.505 ms

Loss rate: 0.00%

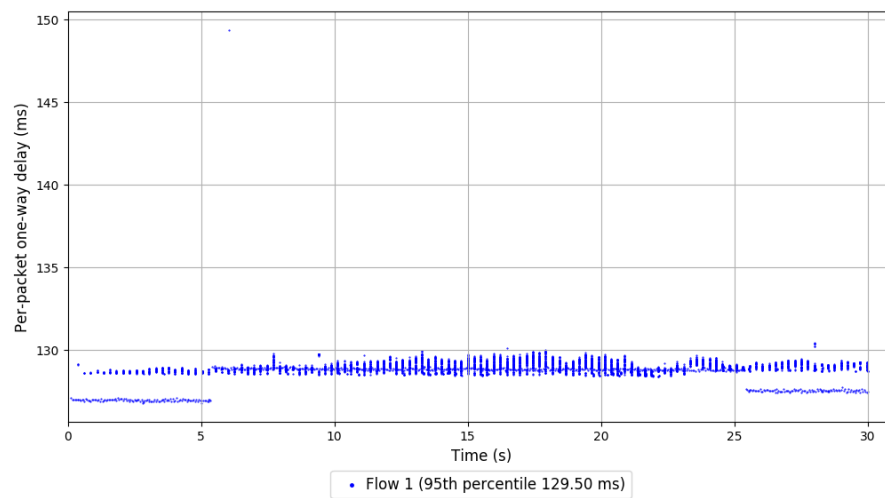
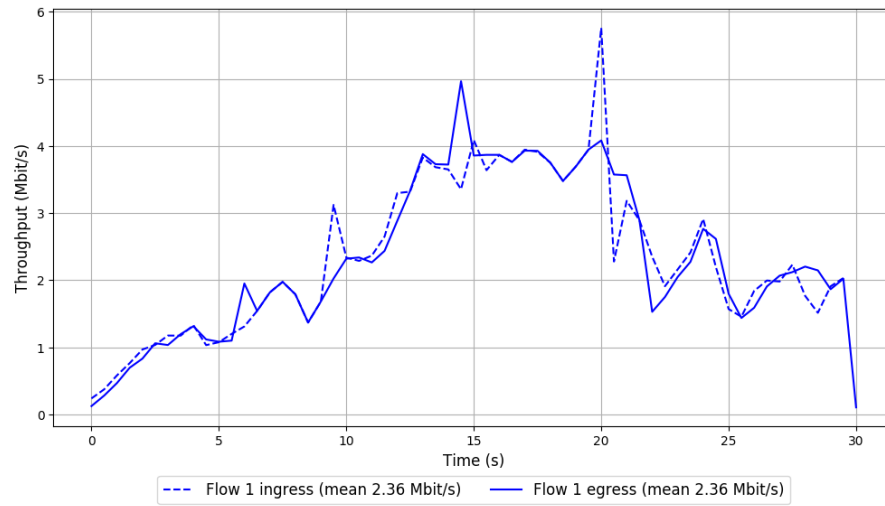
-- Flow 1:

Average throughput: 2.36 Mbit/s

95th percentile per-packet one-way delay: 129.505 ms

Loss rate: 0.00%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-01-02 00:30:48

End at: 2018-01-02 00:31:18

Below is generated by plot.py at 2018-01-02 03:06:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 127.440 ms

Loss rate: 0.00%

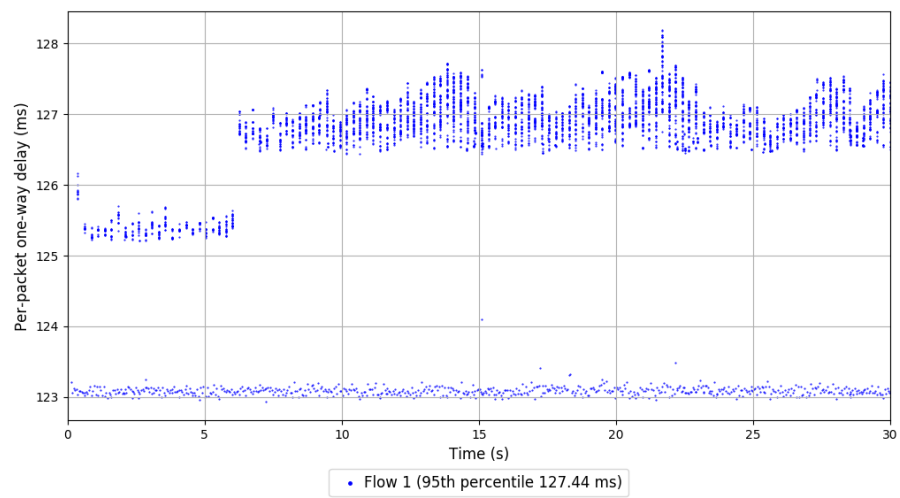
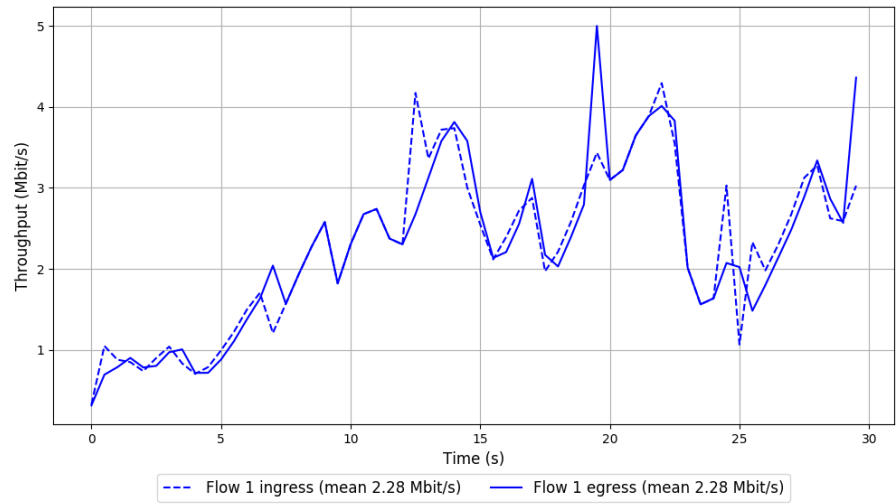
-- Flow 1:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 127.440 ms

Loss rate: 0.00%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-01-02 00:43:01

End at: 2018-01-02 00:43:31

Below is generated by plot.py at 2018-01-02 03:06:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.54 Mbit/s

95th percentile per-packet one-way delay: 129.079 ms

Loss rate: 1.17%

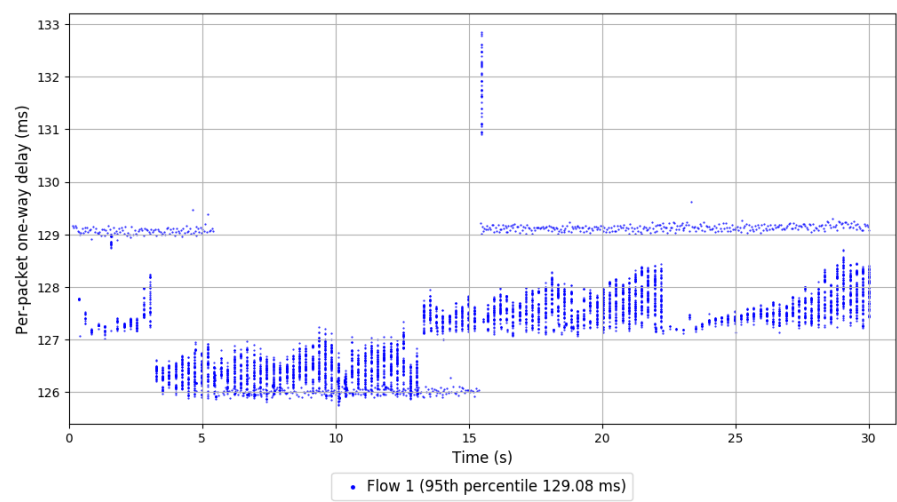
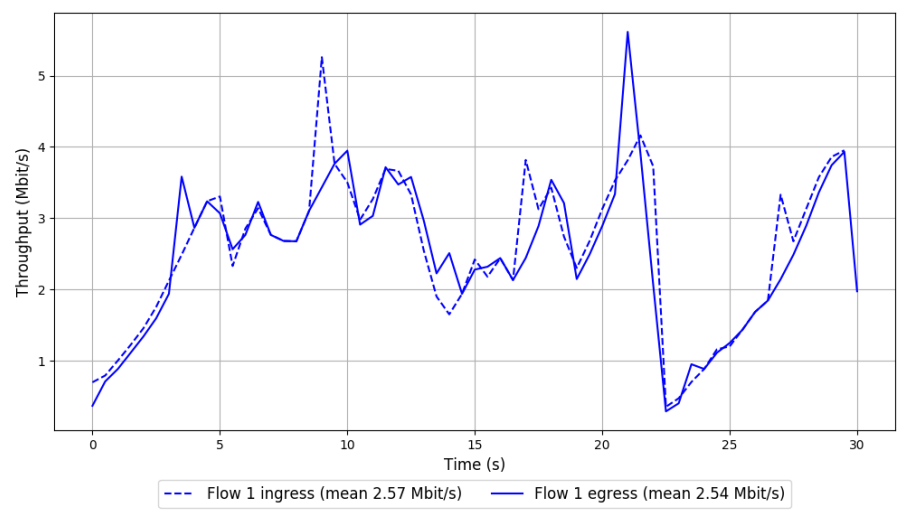
-- Flow 1:

Average throughput: 2.54 Mbit/s

95th percentile per-packet one-way delay: 129.079 ms

Loss rate: 1.17%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-01-02 00:55:33

End at: 2018-01-02 00:56:03

Below is generated by plot.py at 2018-01-02 03:06:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 127.533 ms

Loss rate: 0.00%

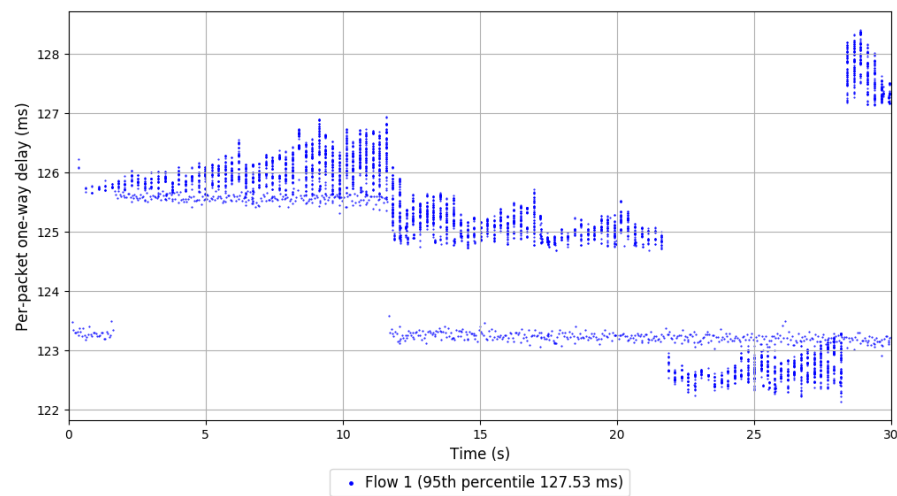
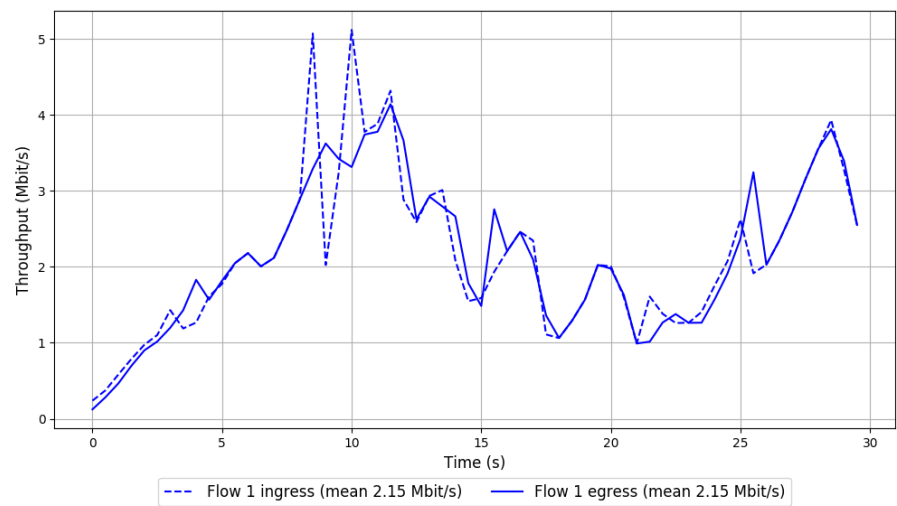
-- Flow 1:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 127.533 ms

Loss rate: 0.00%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-01-02 01:08:03

End at: 2018-01-02 01:08:33

Below is generated by plot.py at 2018-01-02 03:06:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.07 Mbit/s

95th percentile per-packet one-way delay: 124.978 ms

Loss rate: 0.00%

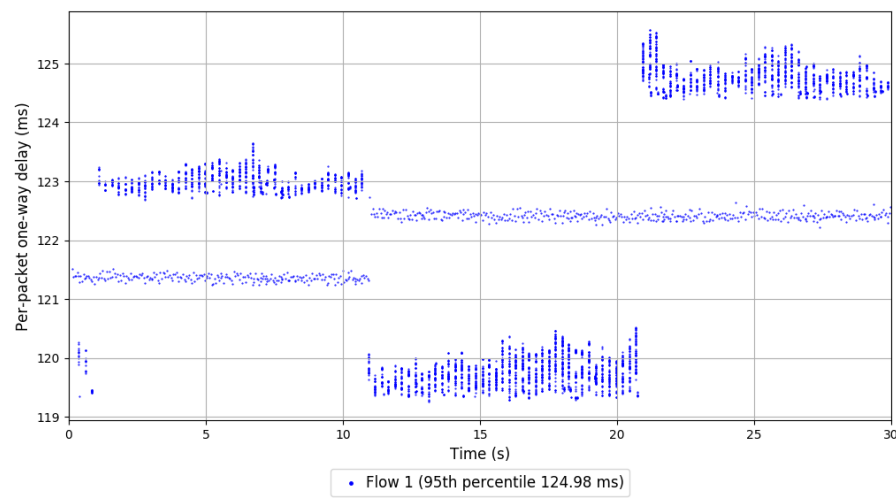
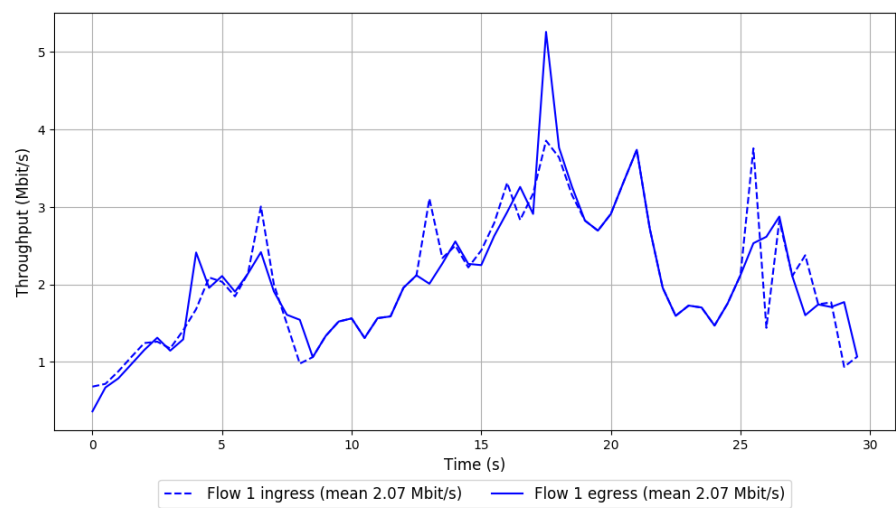
-- Flow 1:

Average throughput: 2.07 Mbit/s

95th percentile per-packet one-way delay: 124.978 ms

Loss rate: 0.00%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-01-02 01:20:18

End at: 2018-01-02 01:20:48

Below is generated by plot.py at 2018-01-02 03:06:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.62 Mbit/s

95th percentile per-packet one-way delay: 121.504 ms

Loss rate: 0.00%

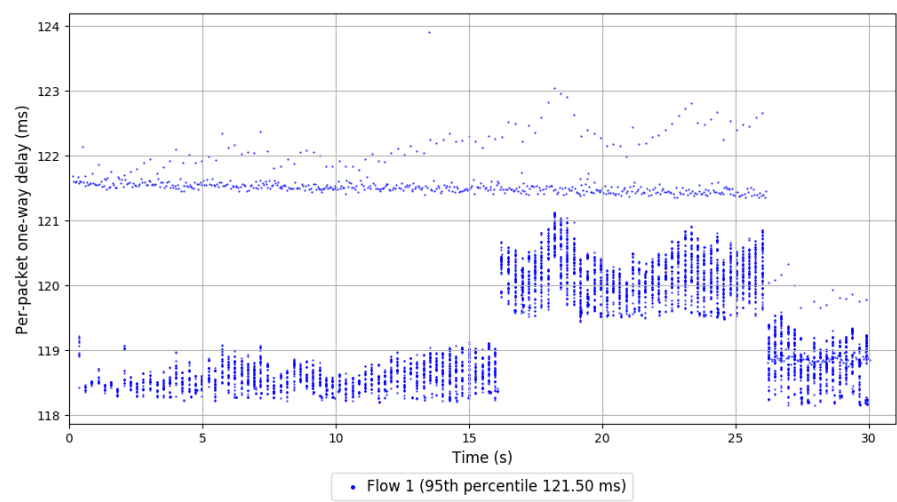
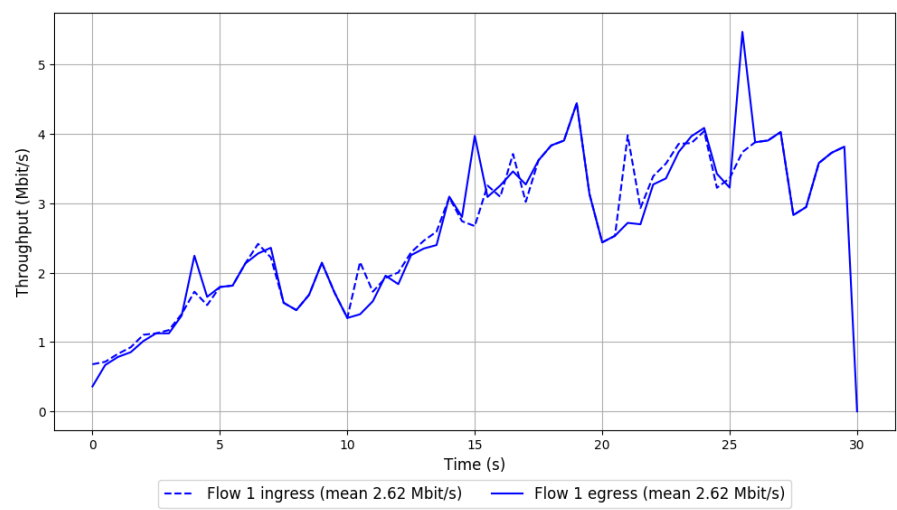
-- Flow 1:

Average throughput: 2.62 Mbit/s

95th percentile per-packet one-way delay: 121.504 ms

Loss rate: 0.00%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-01-02 01:32:39

End at: 2018-01-02 01:33:09

Below is generated by plot.py at 2018-01-02 03:06:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.93 Mbit/s

95th percentile per-packet one-way delay: 118.183 ms

Loss rate: 0.00%

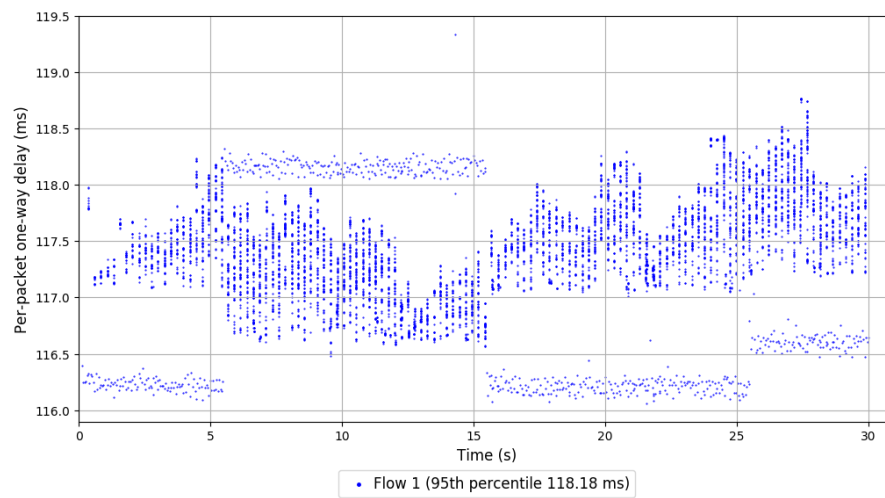
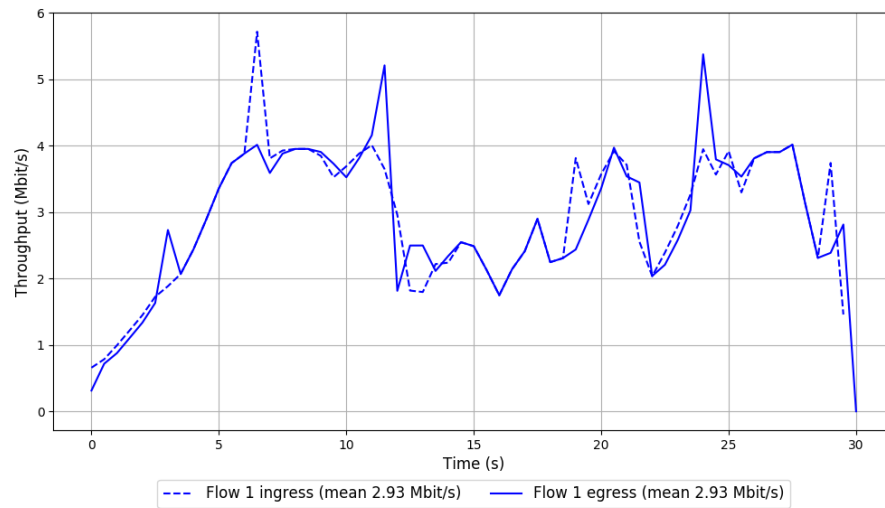
-- Flow 1:

Average throughput: 2.93 Mbit/s

95th percentile per-packet one-way delay: 118.183 ms

Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

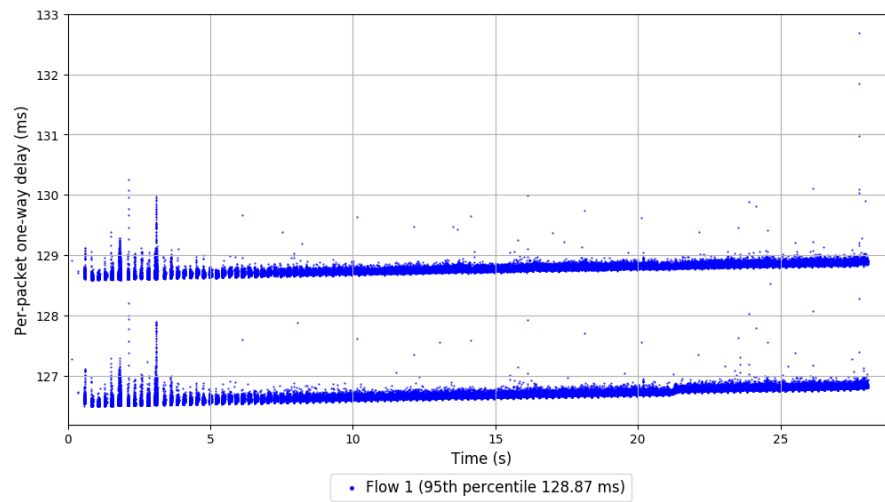
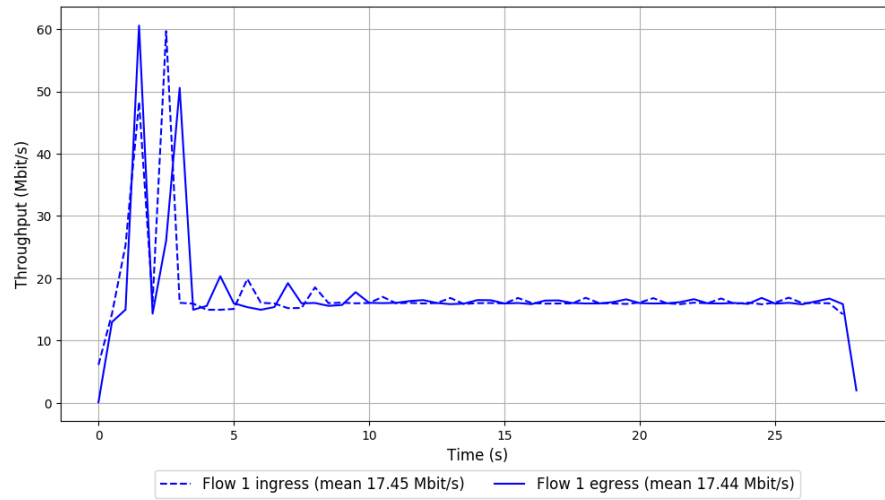


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-01-01 23:44:21
End at: 2018-01-01 23:44:51

# Below is generated by plot.py at 2018-01-02 03:06:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 17.44 Mbit/s
95th percentile per-packet one-way delay: 128.872 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 17.44 Mbit/s
95th percentile per-packet one-way delay: 128.872 ms
Loss rate: 0.00%
```


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

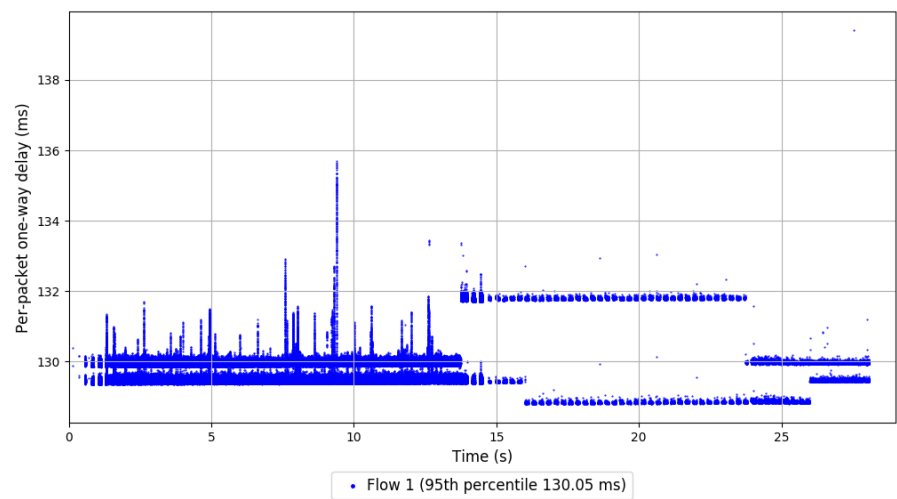
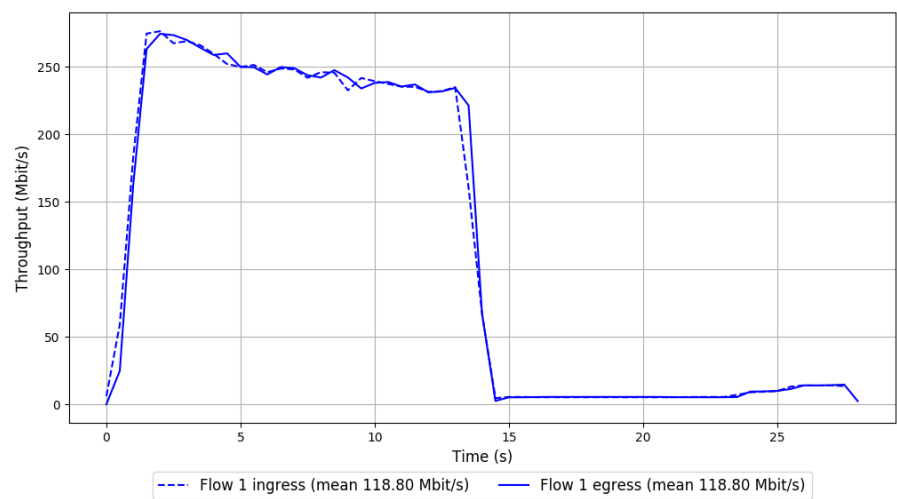


```
Run 2: Statistics of TaoVA-100x

Start at: 2018-01-01 23:56:29
End at: 2018-01-01 23:56:59

# Below is generated by plot.py at 2018-01-02 03:06:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 118.80 Mbit/s
95th percentile per-packet one-way delay: 130.048 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 118.80 Mbit/s
95th percentile per-packet one-way delay: 130.048 ms
Loss rate: 0.00%
```

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-01-02 00:08:48

End at: 2018-01-02 00:09:18

Below is generated by plot.py at 2018-01-02 03:06:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 26.27 Mbit/s

95th percentile per-packet one-way delay: 131.711 ms

Loss rate: 0.00%

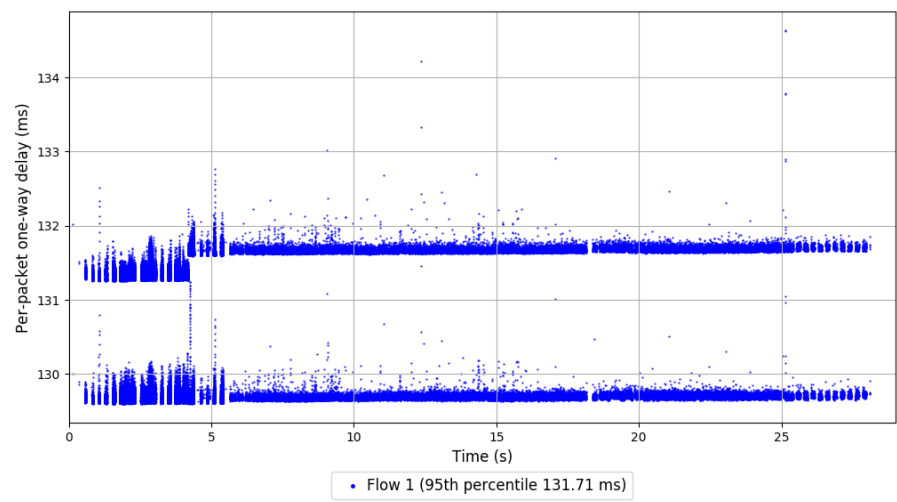
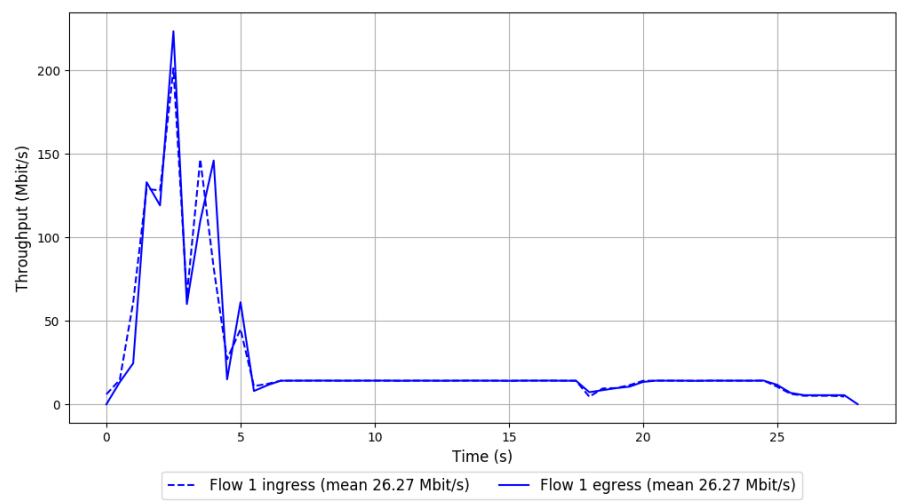
-- Flow 1:

Average throughput: 26.27 Mbit/s

95th percentile per-packet one-way delay: 131.711 ms

Loss rate: 0.00%

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

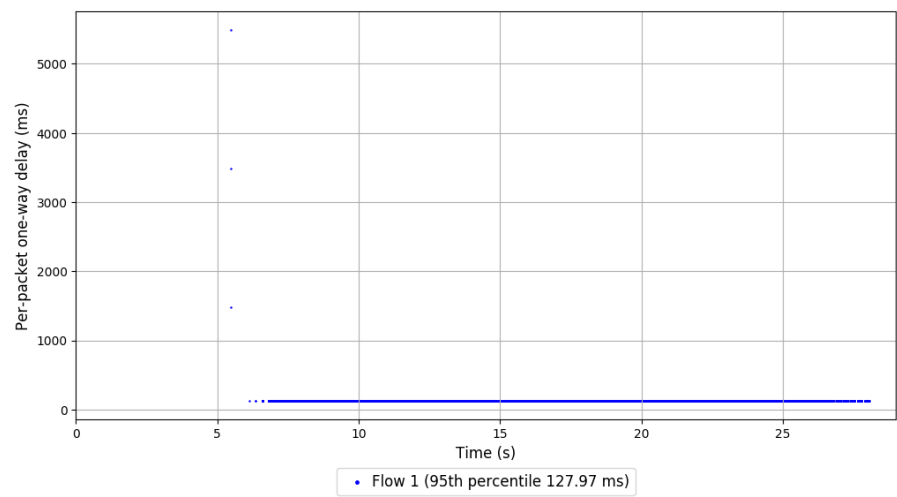
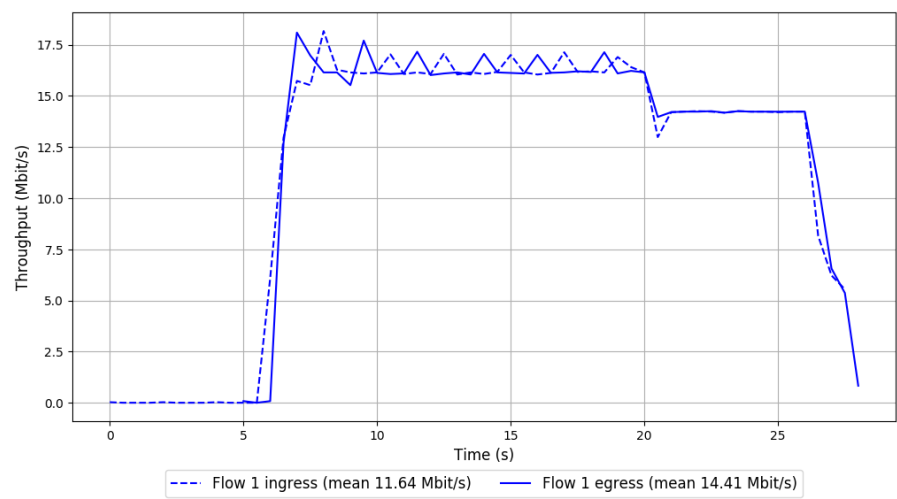


Run 4: Statistics of TaoVA-100x

Start at: 2018-01-02 00:21:08

End at: 2018-01-02 00:21:38

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-01-02 00:33:10

End at: 2018-01-02 00:33:41

Below is generated by plot.py at 2018-01-02 03:06:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 167.49 Mbit/s

95th percentile per-packet one-way delay: 126.529 ms

Loss rate: 0.00%

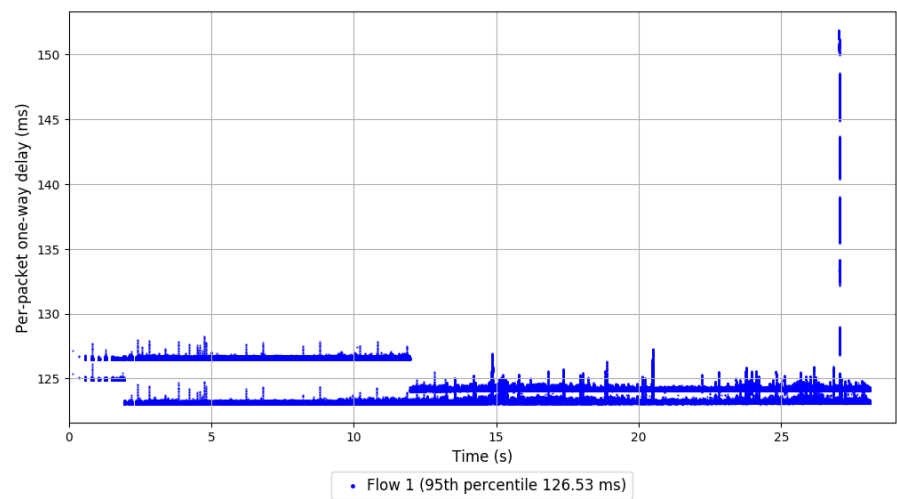
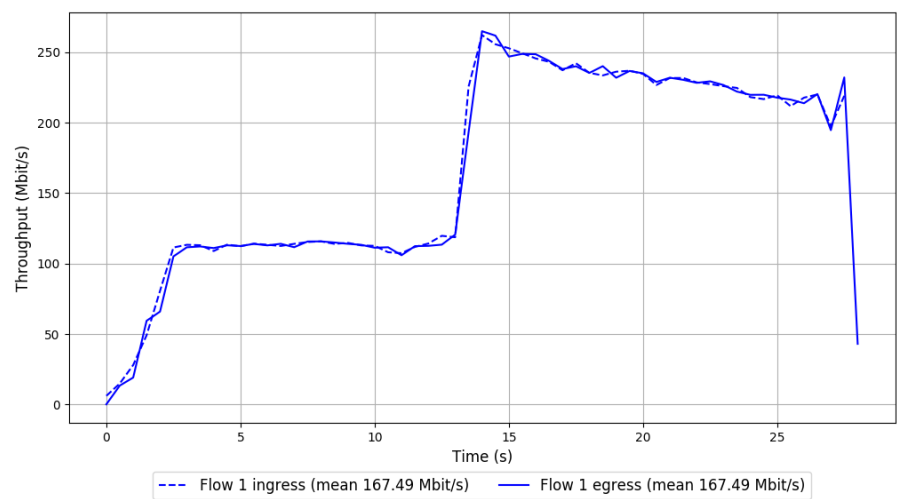
-- Flow 1:

Average throughput: 167.49 Mbit/s

95th percentile per-packet one-way delay: 126.529 ms

Loss rate: 0.00%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-01-02 00:45:39

End at: 2018-01-02 00:46:09

Below is generated by plot.py at 2018-01-02 03:06:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 190.24 Mbit/s

95th percentile per-packet one-way delay: 128.967 ms

Loss rate: 0.00%

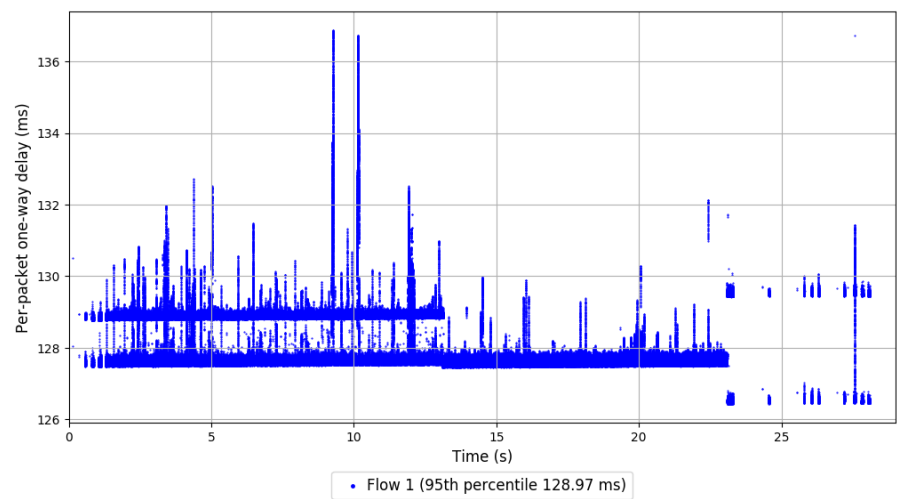
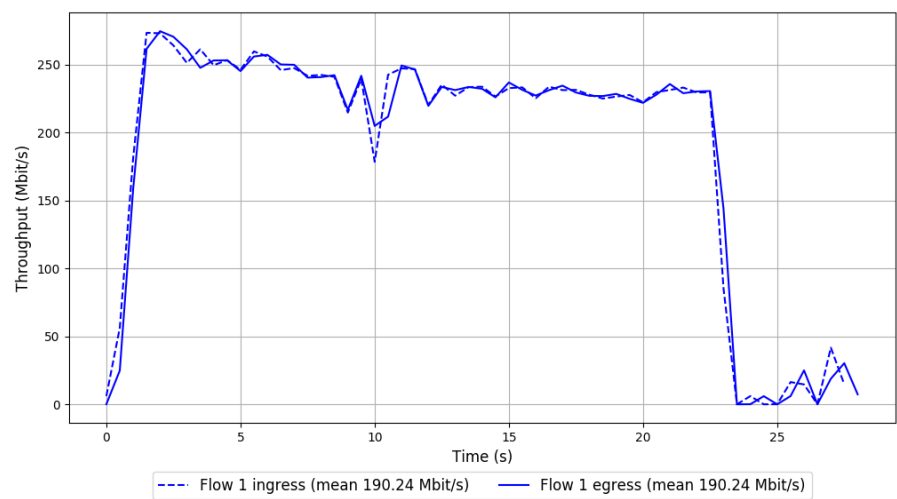
-- Flow 1:

Average throughput: 190.24 Mbit/s

95th percentile per-packet one-way delay: 128.967 ms

Loss rate: 0.00%

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

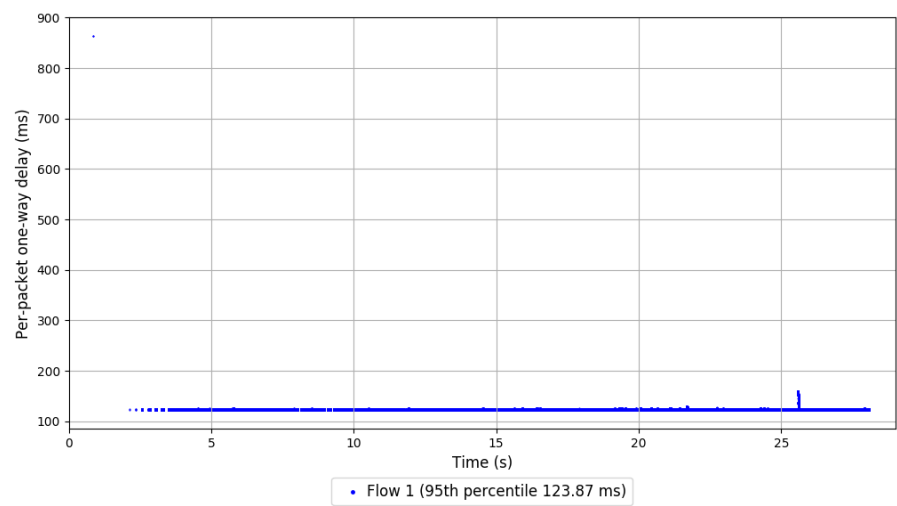
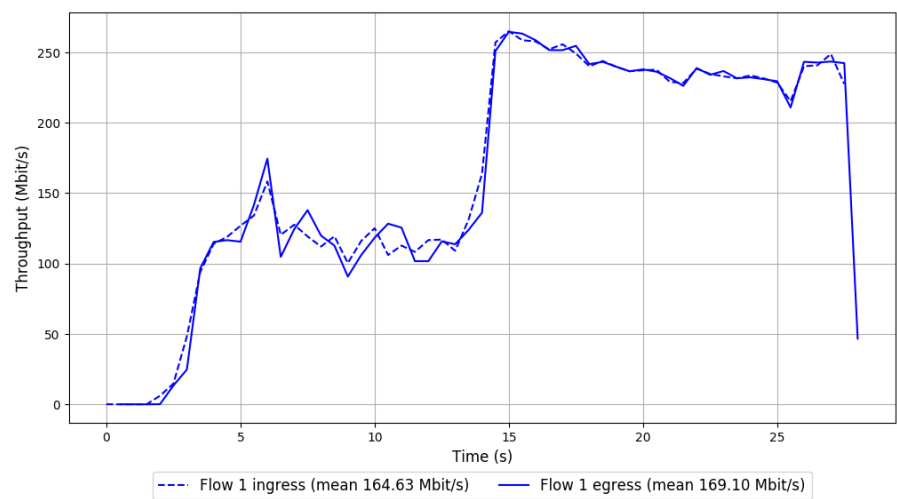


```
Run 7: Statistics of TaoVA-100x

Start at: 2018-01-02 00:58:11
End at: 2018-01-02 00:58:41

# Below is generated by plot.py at 2018-01-02 03:06:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 169.10 Mbit/s
95th percentile per-packet one-way delay: 123.867 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 169.10 Mbit/s
95th percentile per-packet one-way delay: 123.867 ms
Loss rate: 0.00%
```

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-01-02 01:10:43

End at: 2018-01-02 01:11:13

Below is generated by plot.py at 2018-01-02 03:06:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 54.92 Mbit/s

95th percentile per-packet one-way delay: 124.149 ms

Loss rate: 0.03%

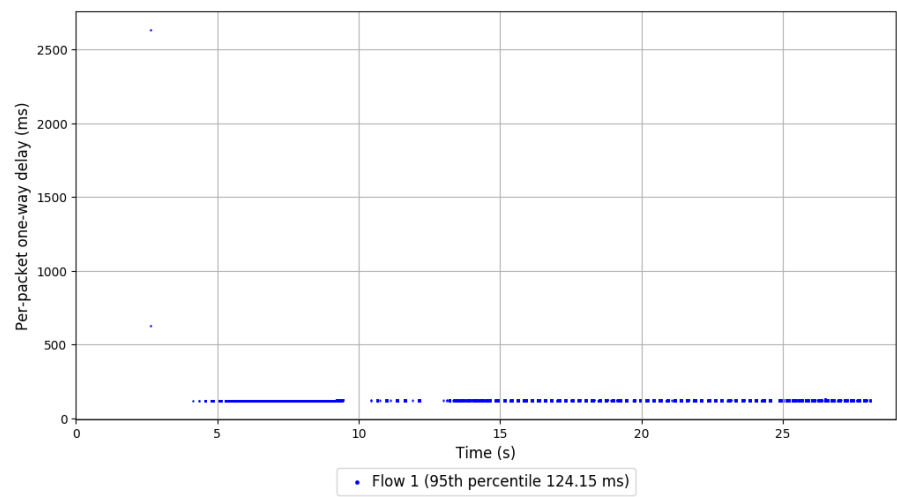
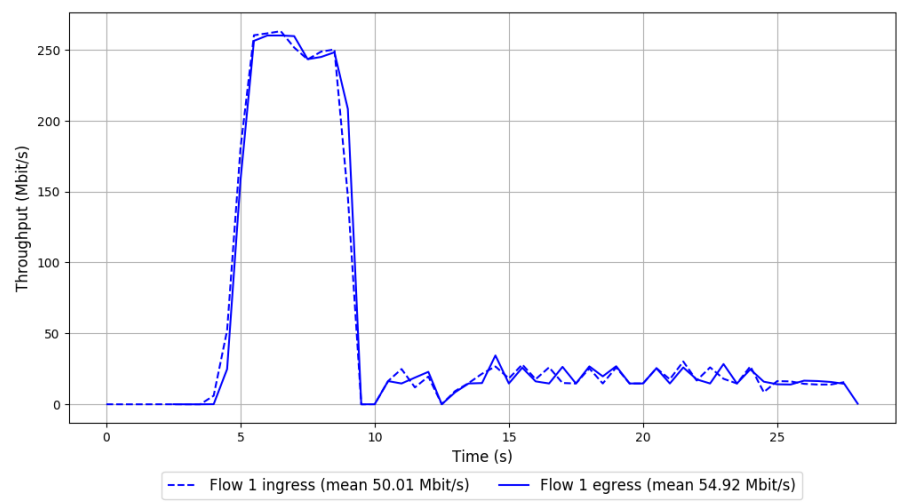
-- Flow 1:

Average throughput: 54.92 Mbit/s

95th percentile per-packet one-way delay: 124.149 ms

Loss rate: 0.03%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-01-02 01:22:55

End at: 2018-01-02 01:23:25

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

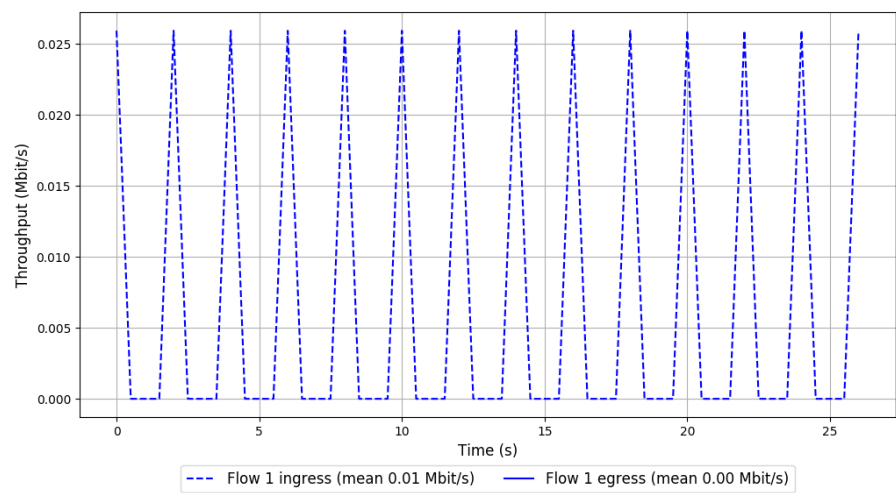


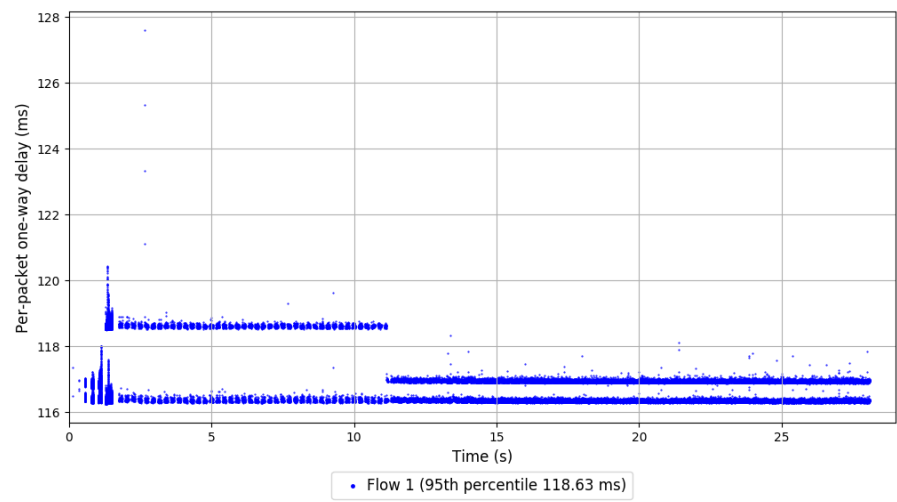
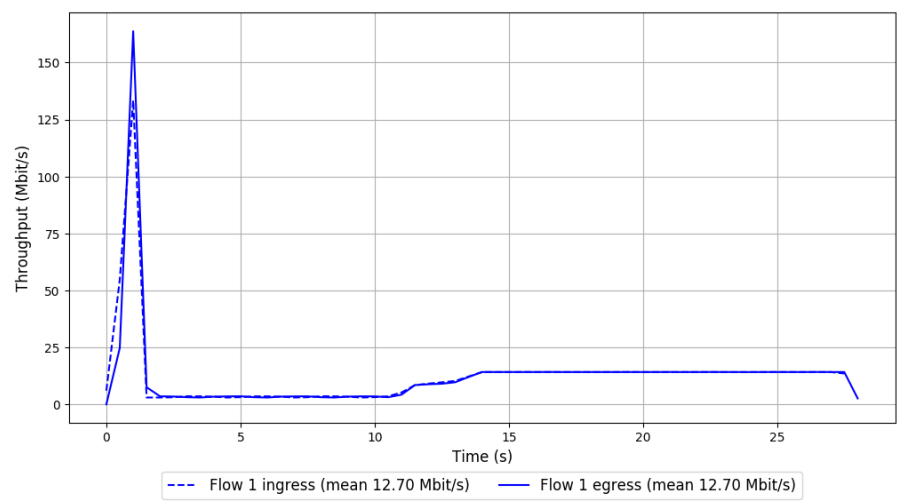
Figure is missing

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

Start at: 2018-01-02 01:35:21
End at: 2018-01-02 01:35:51

# Below is generated by plot.py at 2018-01-02 03:06:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.70 Mbit/s
95th percentile per-packet one-way delay: 118.631 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 12.70 Mbit/s
95th percentile per-packet one-way delay: 118.631 ms
Loss rate: 0.00%
```

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



Run 1: Statistics of TCP Vegas

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

End at: 2018-01-01 23:39:32

Below is generated by plot.py at 2018-01-02 03:06:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 100.66 Mbit/s

95th percentile per-packet one-way delay: 134.401 ms

Loss rate: 0.00%

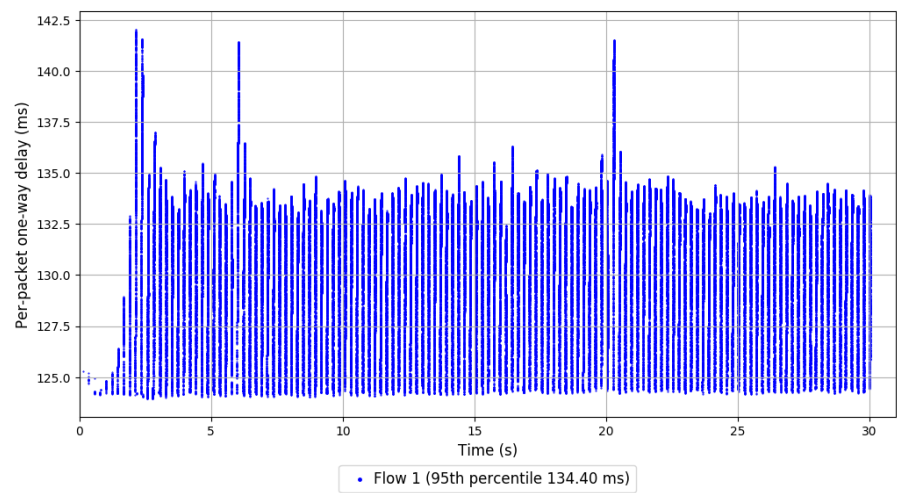
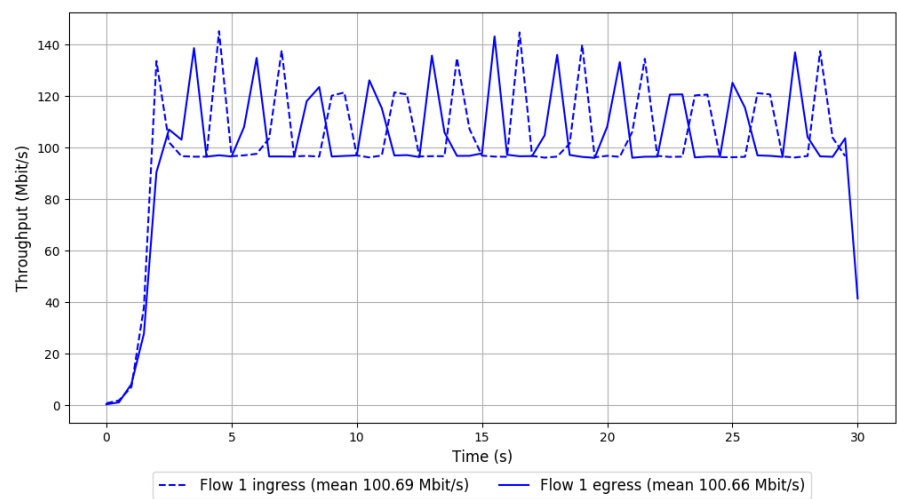
-- Flow 1:

Average throughput: 100.66 Mbit/s

95th percentile per-packet one-way delay: 134.401 ms

Loss rate: 0.00%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-01-01 23:50:57

End at: 2018-01-01 23:51:27

Below is generated by plot.py at 2018-01-02 03:06:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 33.59 Mbit/s

95th percentile per-packet one-way delay: 141.271 ms

Loss rate: 0.10%

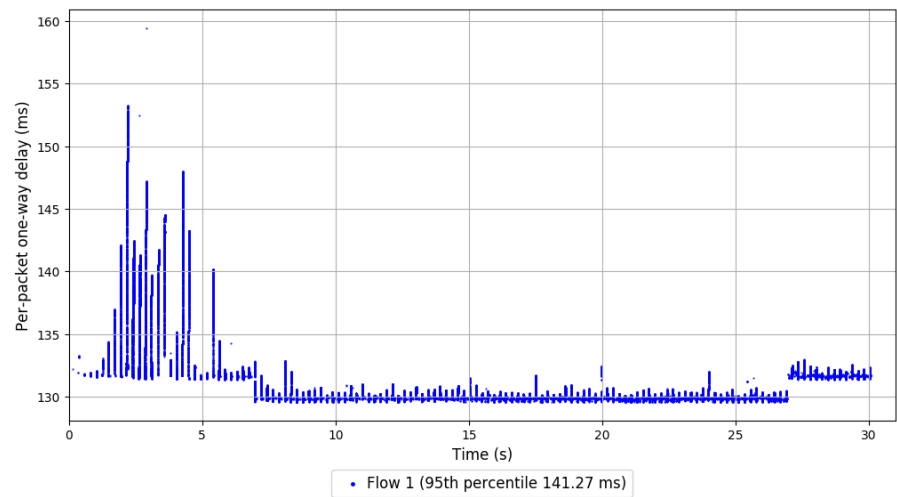
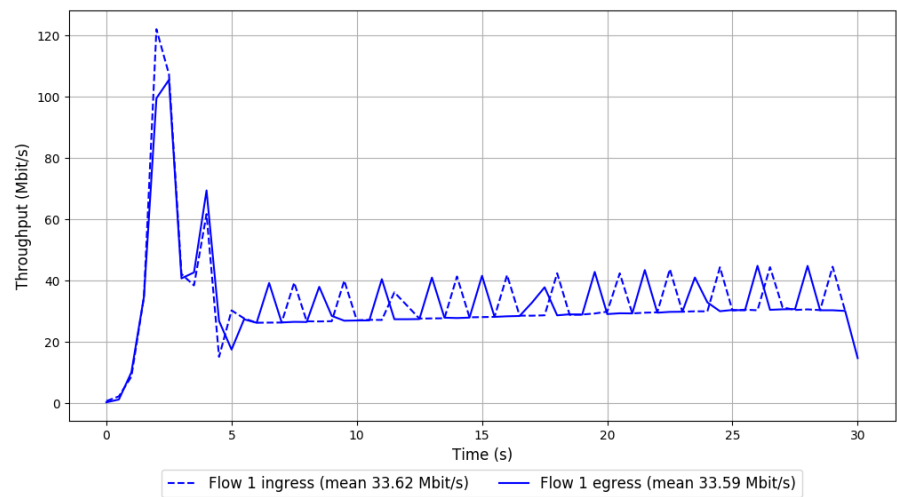
-- Flow 1:

Average throughput: 33.59 Mbit/s

95th percentile per-packet one-way delay: 141.271 ms

Loss rate: 0.10%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-01-02 00:03:13

End at: 2018-01-02 00:03:43

Below is generated by plot.py at 2018-01-02 03:06:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 21.28 Mbit/s

95th percentile per-packet one-way delay: 132.829 ms

Loss rate: 0.00%

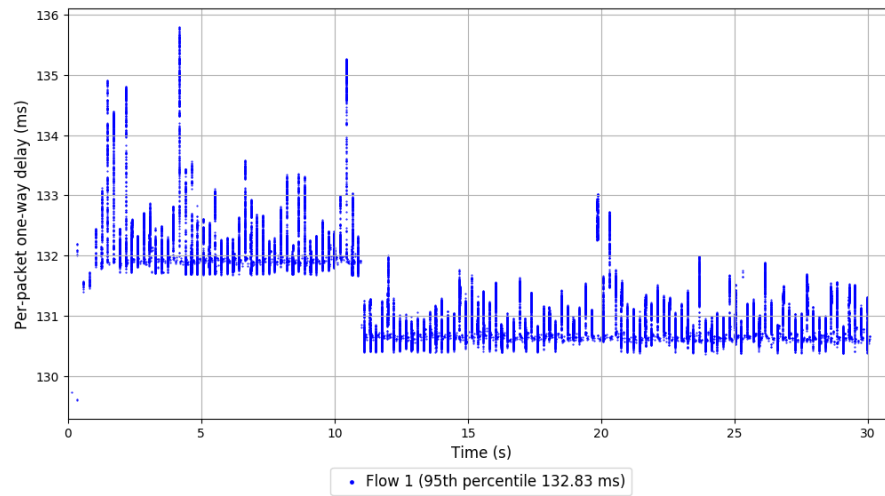
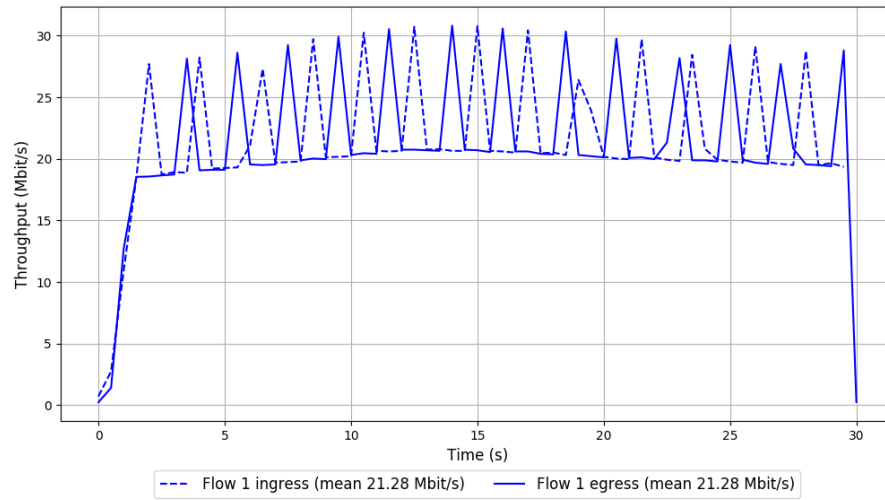
-- Flow 1:

Average throughput: 21.28 Mbit/s

95th percentile per-packet one-way delay: 132.829 ms

Loss rate: 0.00%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-01-02 00:15:33

End at: 2018-01-02 00:16:03

Below is generated by plot.py at 2018-01-02 03:06:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 65.59 Mbit/s

95th percentile per-packet one-way delay: 131.144 ms

Loss rate: 0.00%

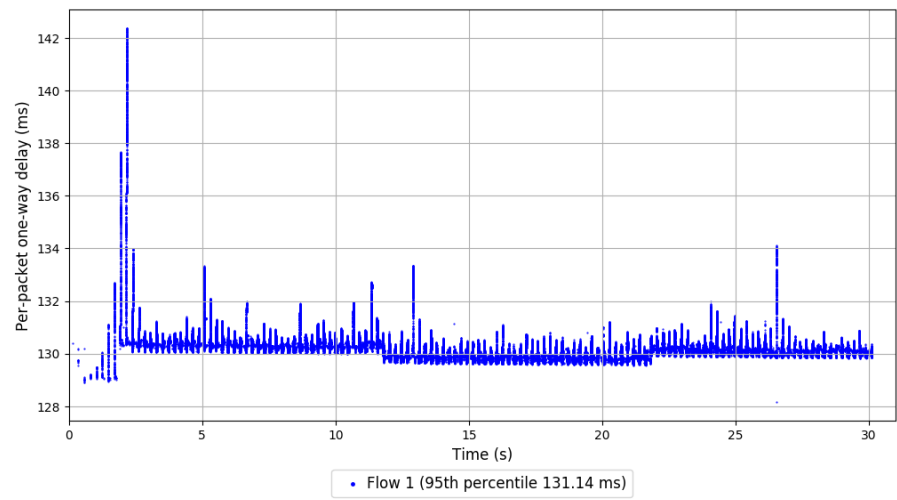
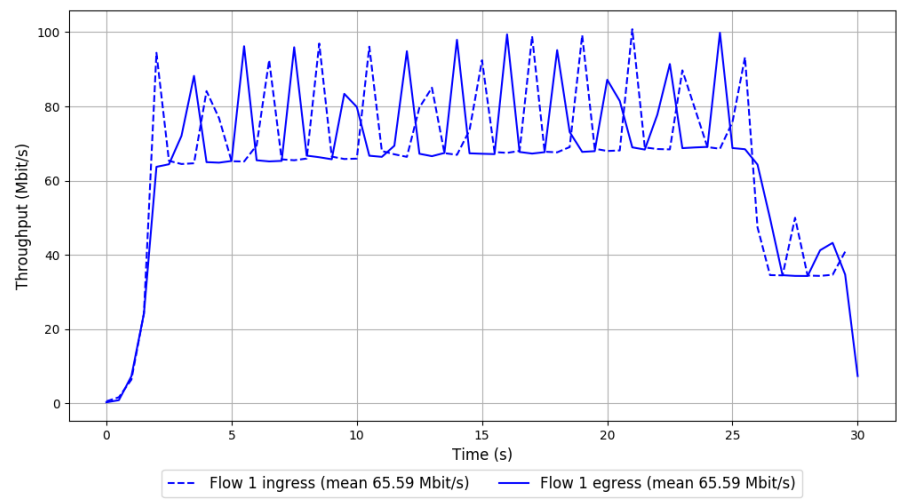
-- Flow 1:

Average throughput: 65.59 Mbit/s

95th percentile per-packet one-way delay: 131.144 ms

Loss rate: 0.00%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-01-02 00:27:47

End at: 2018-01-02 00:28:17

Below is generated by plot.py at 2018-01-02 03:06:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 100.89 Mbit/s

95th percentile per-packet one-way delay: 134.191 ms

Loss rate: 0.00%

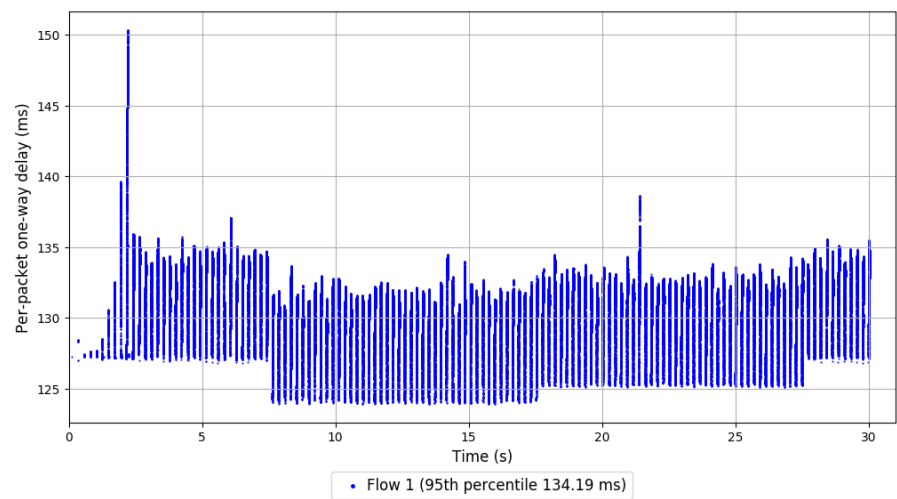
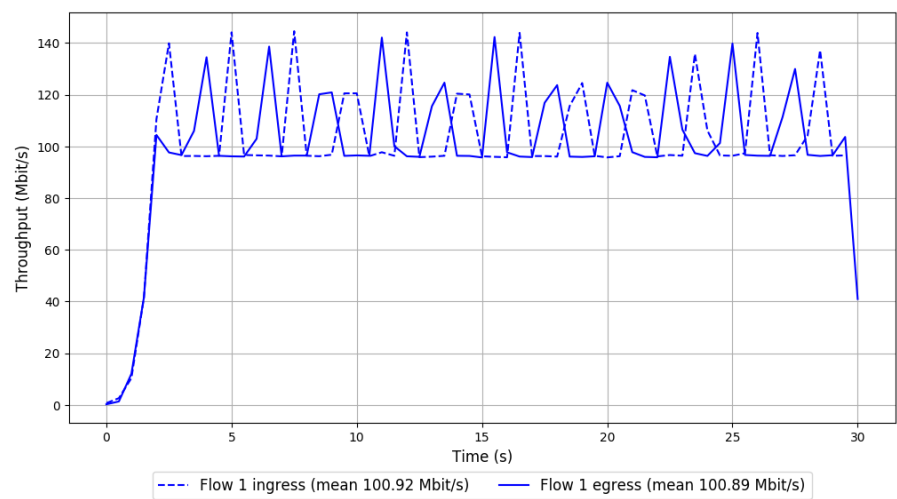
-- Flow 1:

Average throughput: 100.89 Mbit/s

95th percentile per-packet one-way delay: 134.191 ms

Loss rate: 0.00%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-01-02 00:40:05

End at: 2018-01-02 00:40:35

Below is generated by plot.py at 2018-01-02 03:06:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 19.71 Mbit/s

95th percentile per-packet one-way delay: 128.375 ms

Loss rate: 0.00%

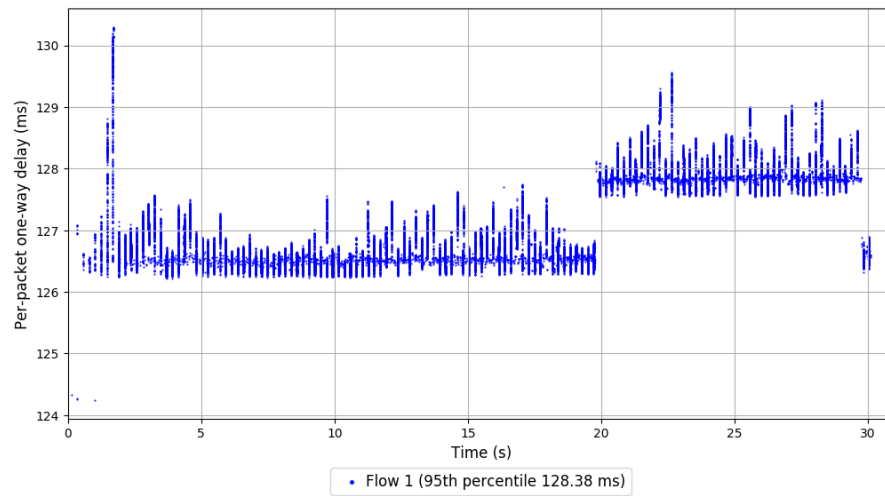
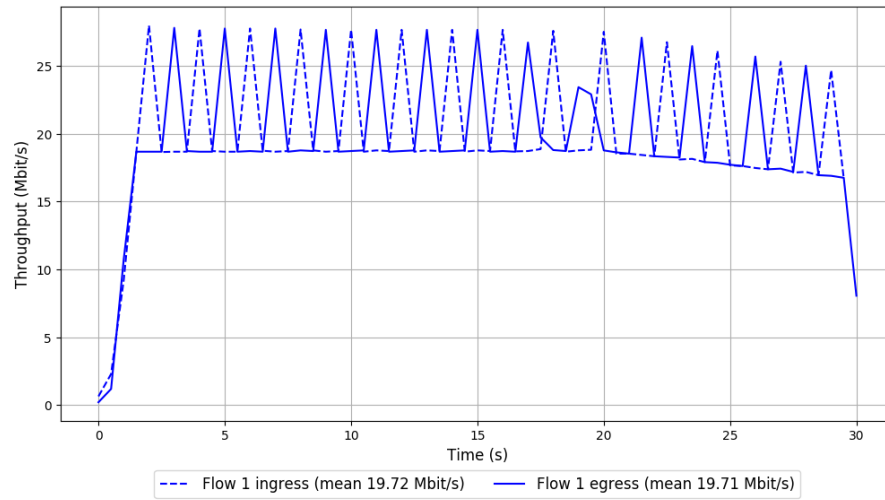
-- Flow 1:

Average throughput: 19.71 Mbit/s

95th percentile per-packet one-way delay: 128.375 ms

Loss rate: 0.00%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-01-02 00:52:37

End at: 2018-01-02 00:53:07

Below is generated by plot.py at 2018-01-02 03:06:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.87 Mbit/s

95th percentile per-packet one-way delay: 127.529 ms

Loss rate: 0.89%

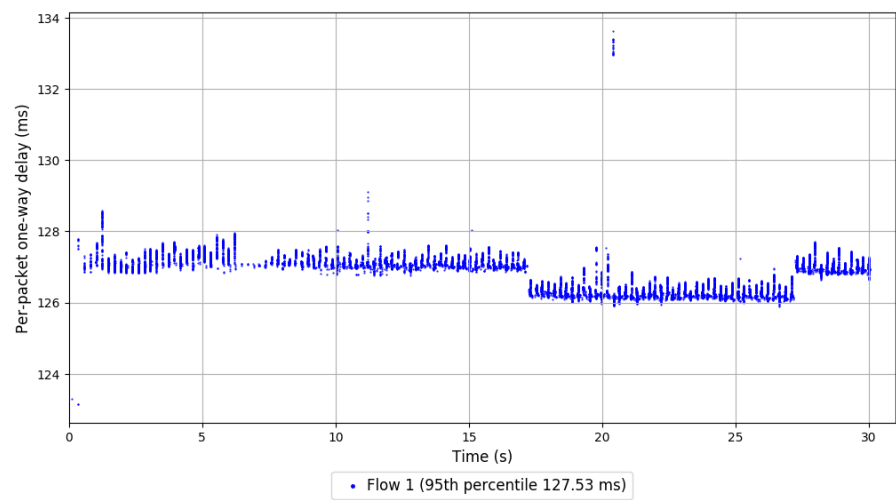
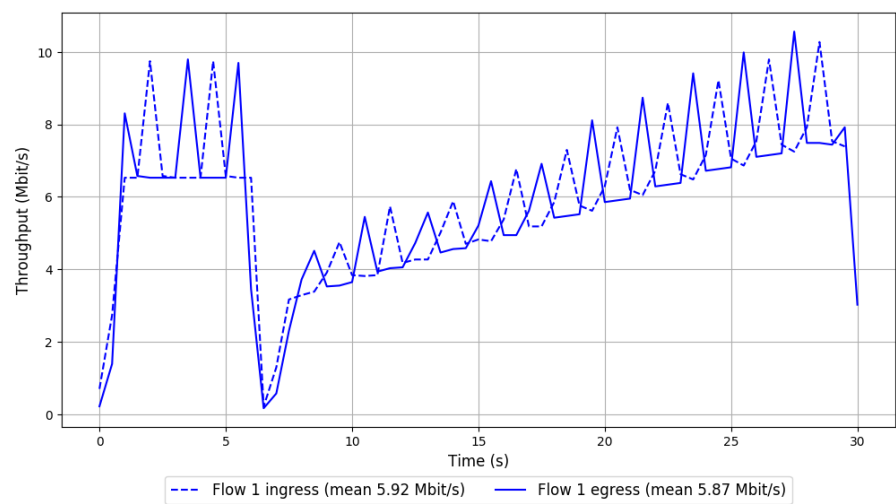
-- Flow 1:

Average throughput: 5.87 Mbit/s

95th percentile per-packet one-way delay: 127.529 ms

Loss rate: 0.89%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-01-02 01:05:06

End at: 2018-01-02 01:05:36

Below is generated by plot.py at 2018-01-02 03:06:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 29.95 Mbit/s

95th percentile per-packet one-way delay: 125.114 ms

Loss rate: 0.00%

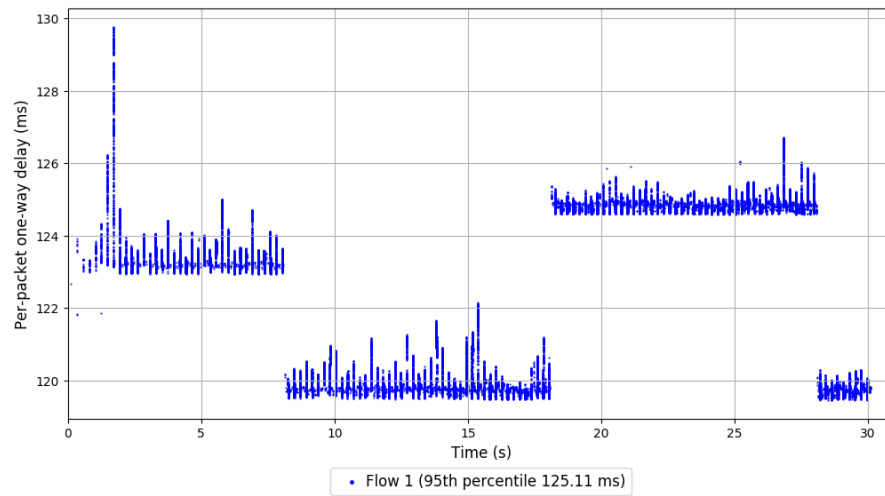
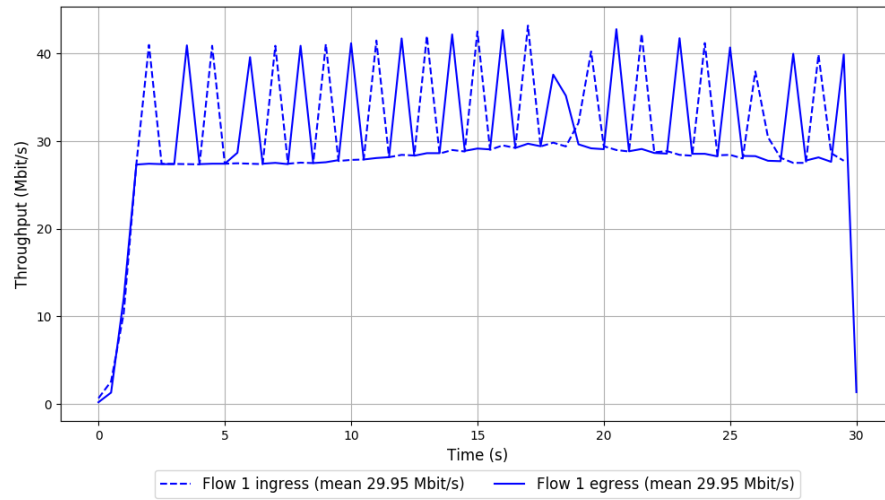
-- Flow 1:

Average throughput: 29.95 Mbit/s

95th percentile per-packet one-way delay: 125.114 ms

Loss rate: 0.00%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-01-02 01:17:21

End at: 2018-01-02 01:17:51

Below is generated by plot.py at 2018-01-02 03:06:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 30.21 Mbit/s

95th percentile per-packet one-way delay: 125.079 ms

Loss rate: 0.00%

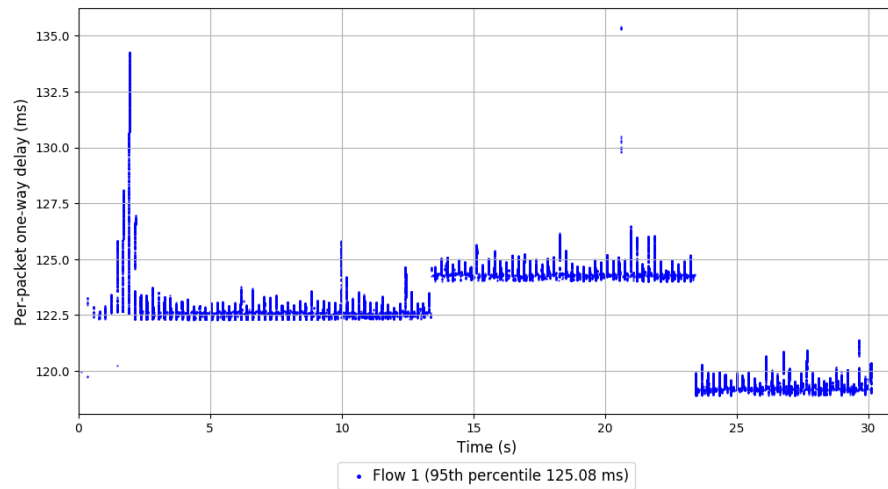
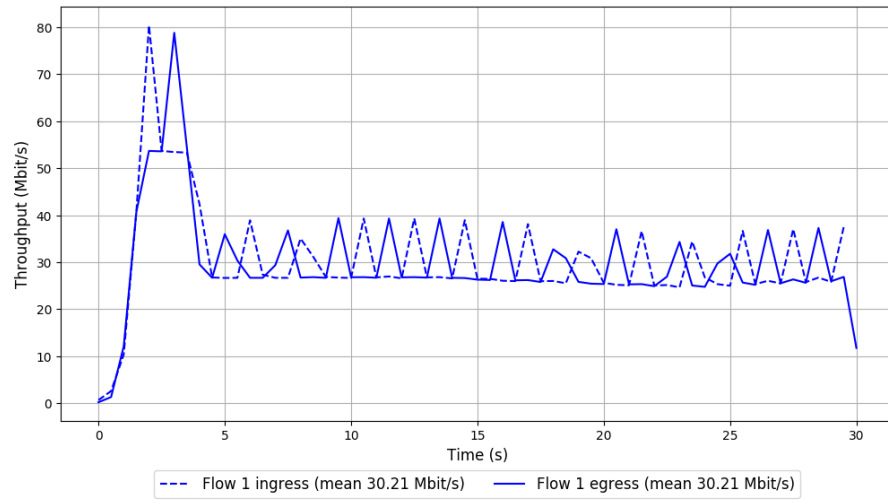
-- Flow 1:

Average throughput: 30.21 Mbit/s

95th percentile per-packet one-way delay: 125.079 ms

Loss rate: 0.00%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-01-02 01:29:34

End at: 2018-01-02 01:30:04

Below is generated by plot.py at 2018-01-02 03:06:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 100.54 Mbit/s

95th percentile per-packet one-way delay: 125.884 ms

Loss rate: 0.00%

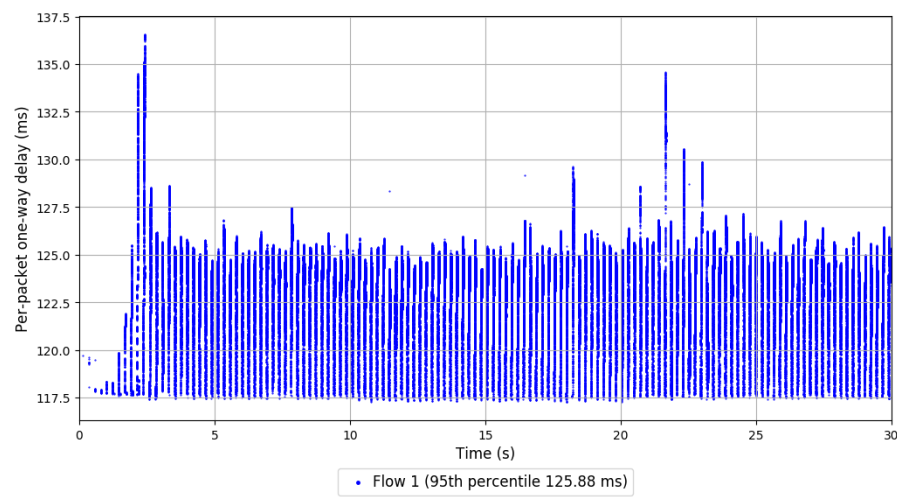
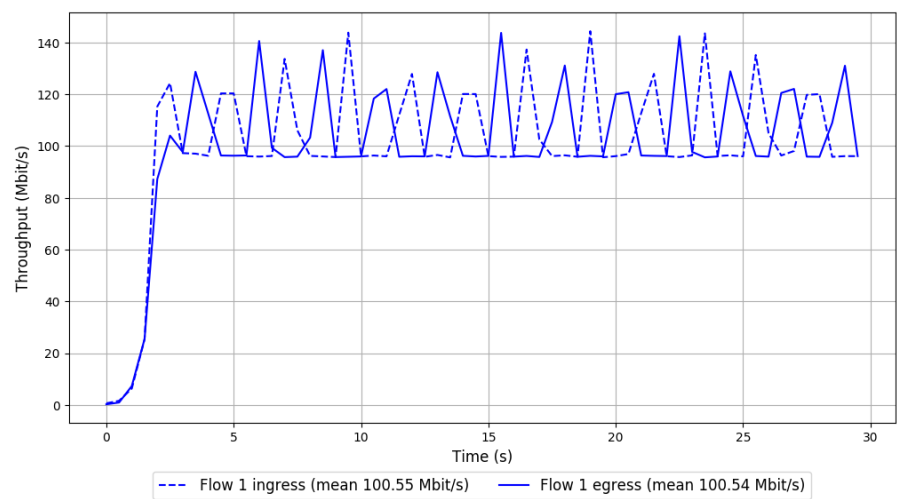
-- Flow 1:

Average throughput: 100.54 Mbit/s

95th percentile per-packet one-way delay: 125.884 ms

Loss rate: 0.00%

Run 10: Report of TCP Vegas — Data Link

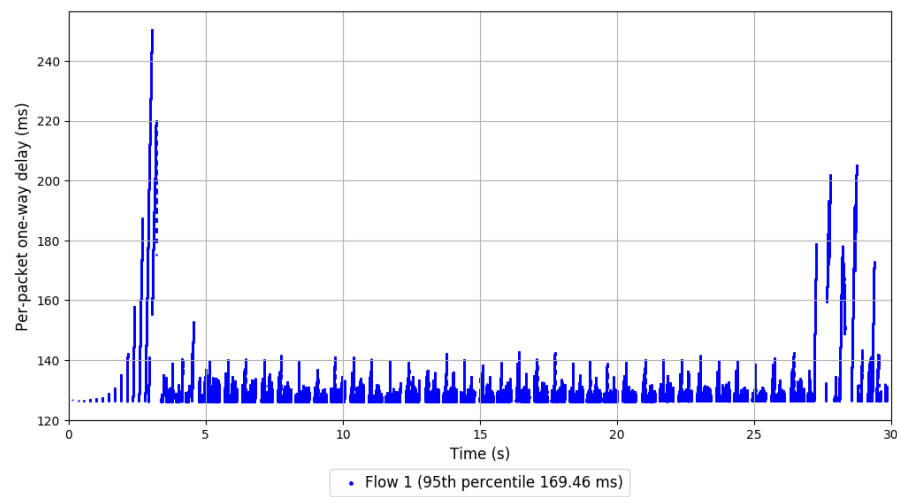
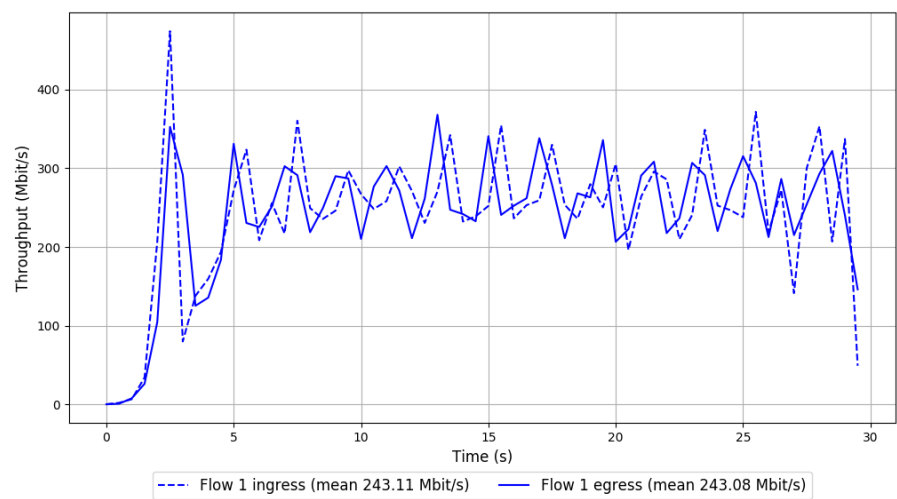


```
Run 1: Statistics of Verus

Start at: 2018-01-01 23:43:23
End at: 2018-01-01 23:43:53

# Below is generated by plot.py at 2018-01-02 03:07:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 243.08 Mbit/s
95th percentile per-packet one-way delay: 169.460 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 243.08 Mbit/s
95th percentile per-packet one-way delay: 169.460 ms
Loss rate: 0.01%
```


Run 1: Report of Verus — Data Link

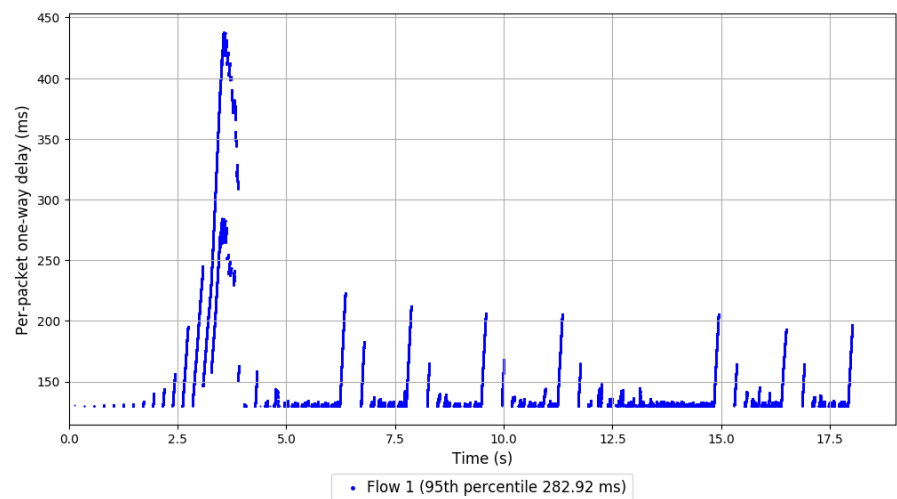
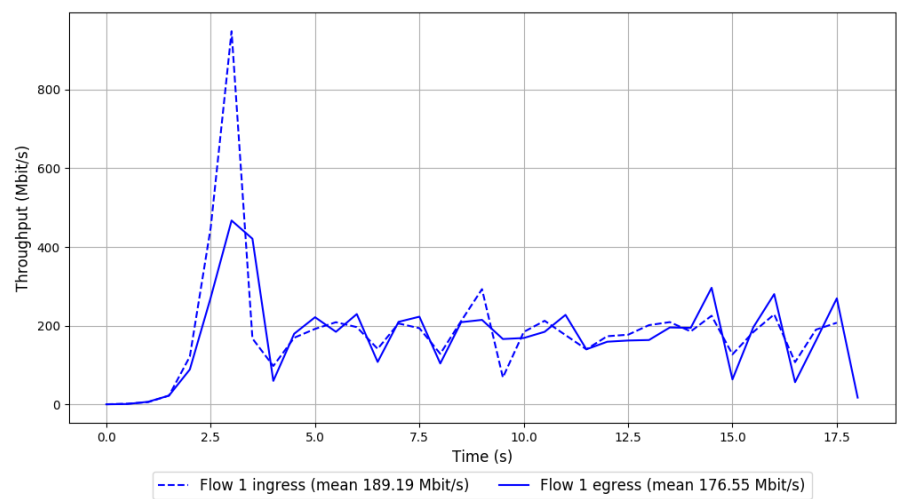


Run 2: Statistics of Verus

Start at: 2018-01-01 23:55:40

End at: 2018-01-01 23:56:10

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-01-02 00:07:55

End at: 2018-01-02 00:08:25

Below is generated by plot.py at 2018-01-02 03:07:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 173.93 Mbit/s

95th percentile per-packet one-way delay: 267.303 ms

Loss rate: 2.96%

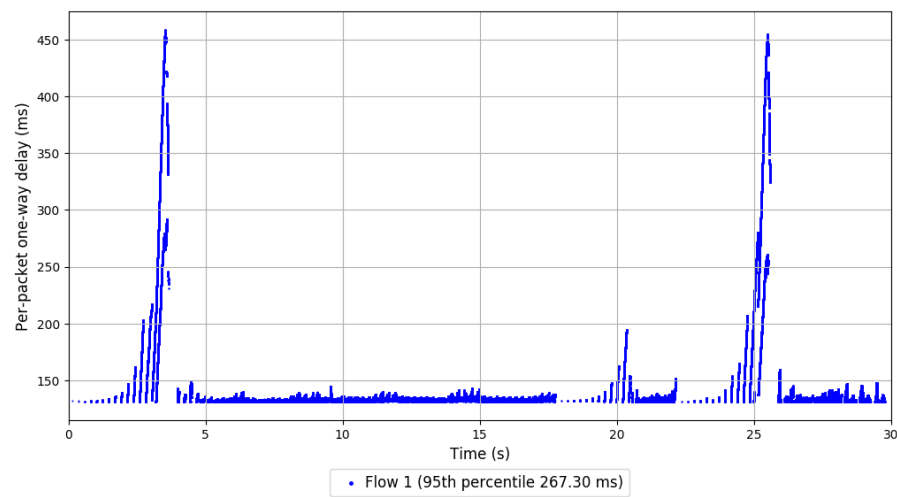
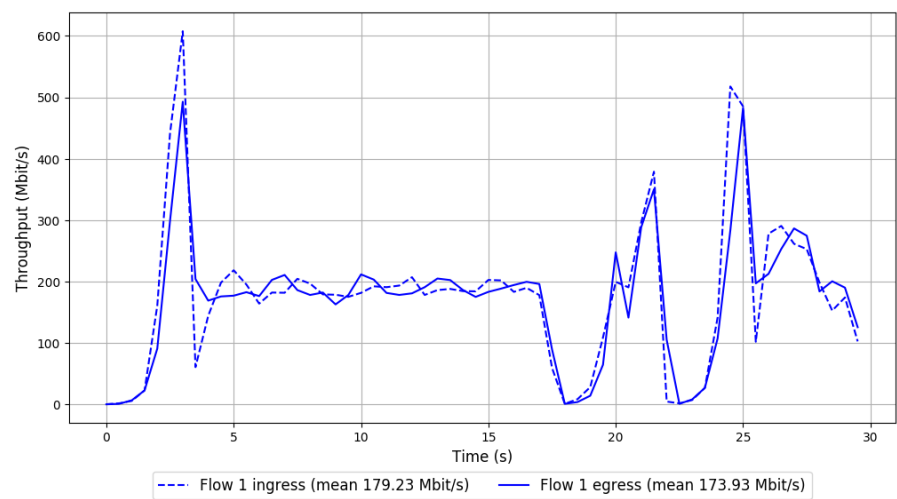
-- Flow 1:

Average throughput: 173.93 Mbit/s

95th percentile per-packet one-way delay: 267.303 ms

Loss rate: 2.96%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-01-02 00:20:14

End at: 2018-01-02 00:20:44

Below is generated by plot.py at 2018-01-02 03:07:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 187.79 Mbit/s

95th percentile per-packet one-way delay: 204.377 ms

Loss rate: 1.73%

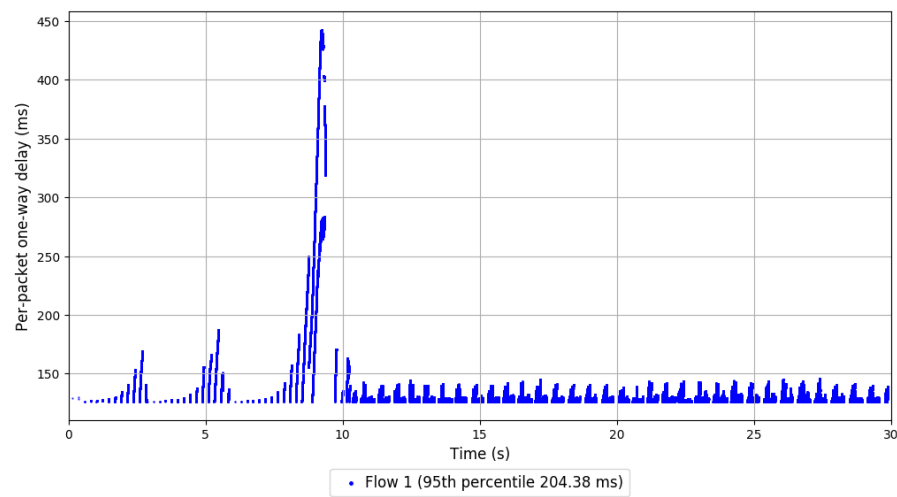
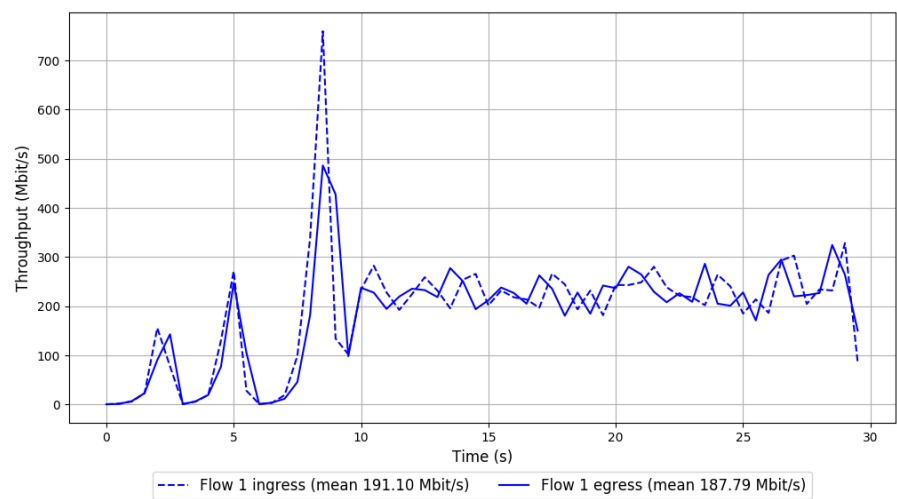
-- Flow 1:

Average throughput: 187.79 Mbit/s

95th percentile per-packet one-way delay: 204.377 ms

Loss rate: 1.73%

Run 4: Report of Verus — Data Link

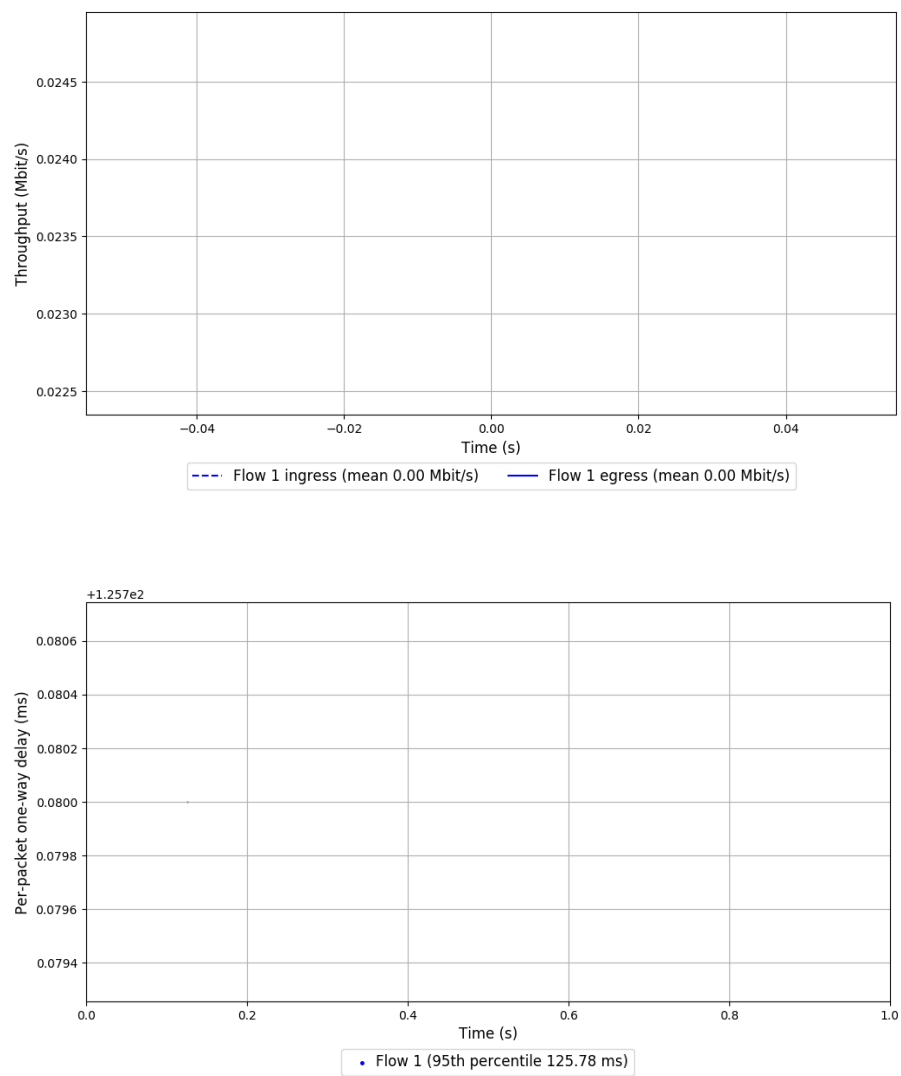


Run 5: Statistics of Verus

Start at: 2018-01-02 00:32:30

End at: 2018-01-02 00:33:00

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-01-02 00:44:44

End at: 2018-01-02 00:45:14

Below is generated by plot.py at 2018-01-02 03:07:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 198.46 Mbit/s

95th percentile per-packet one-way delay: 203.195 ms

Loss rate: 1.44%

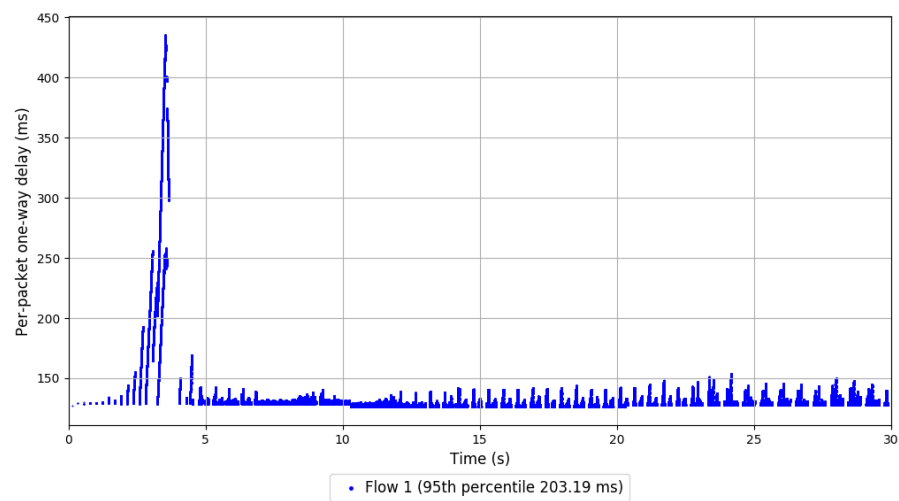
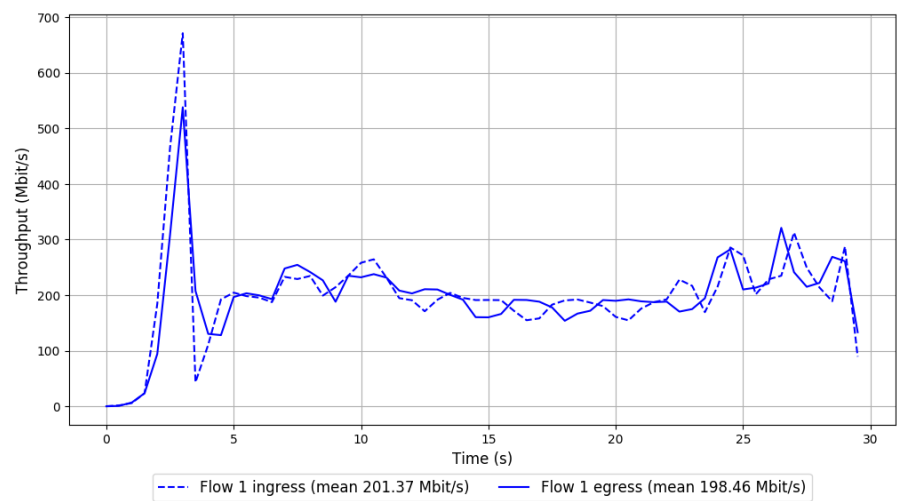
-- Flow 1:

Average throughput: 198.46 Mbit/s

95th percentile per-packet one-way delay: 203.195 ms

Loss rate: 1.44%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-01-02 00:57:16

End at: 2018-01-02 00:57:46

Below is generated by plot.py at 2018-01-02 03:07:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 187.31 Mbit/s

95th percentile per-packet one-way delay: 166.651 ms

Loss rate: 0.06%

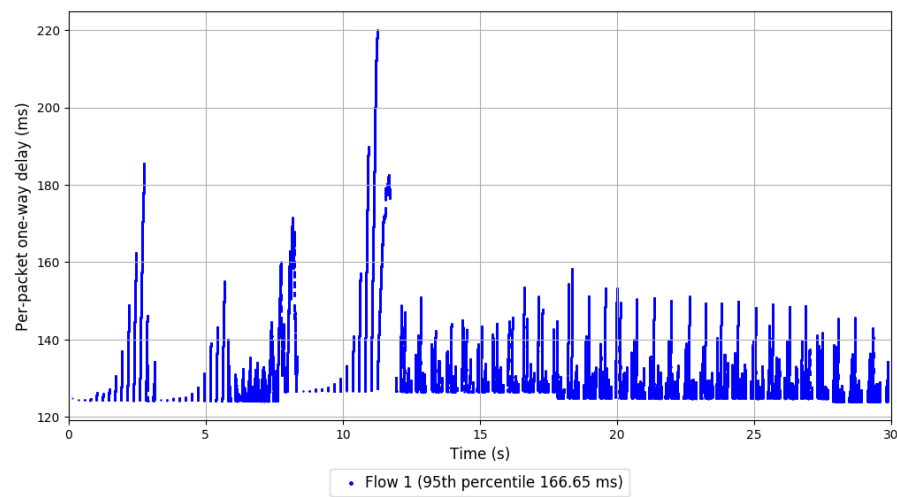
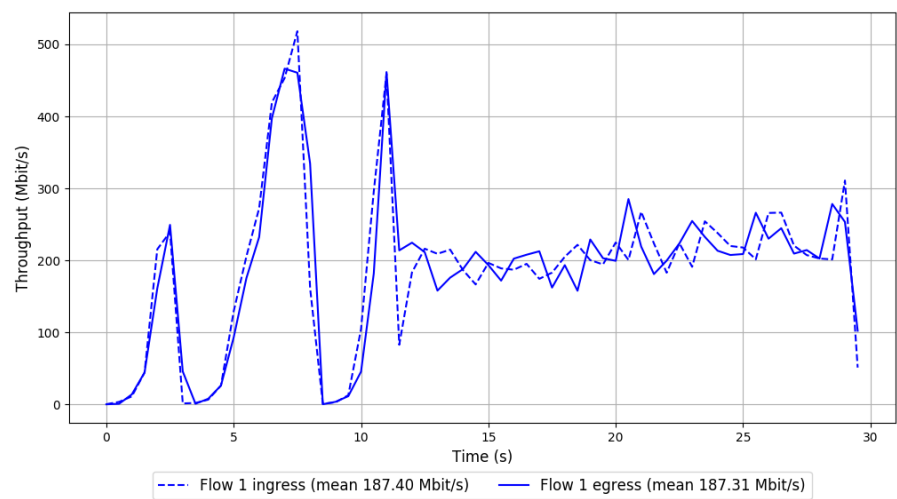
-- Flow 1:

Average throughput: 187.31 Mbit/s

95th percentile per-packet one-way delay: 166.651 ms

Loss rate: 0.06%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-01-02 01:09:46

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

Below is generated by plot.py at 2018-01-02 03:08:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 229.01 Mbit/s

95th percentile per-packet one-way delay: 203.822 ms

Loss rate: 2.13%

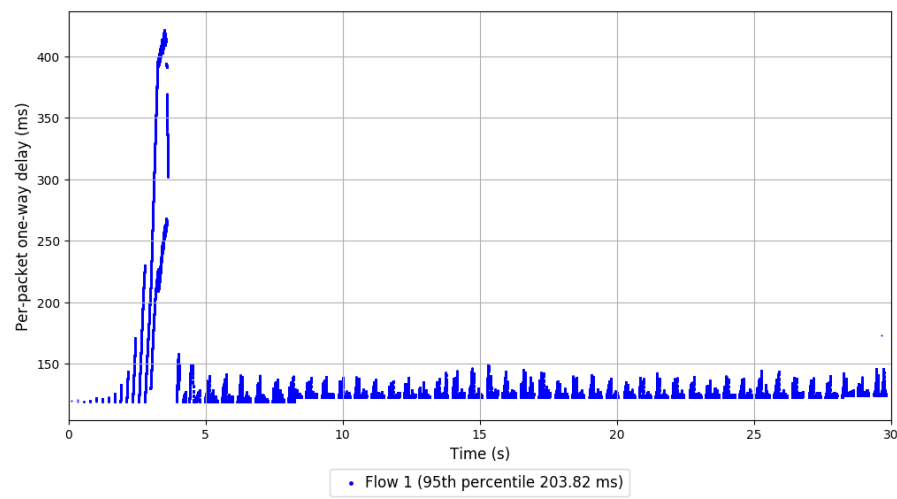
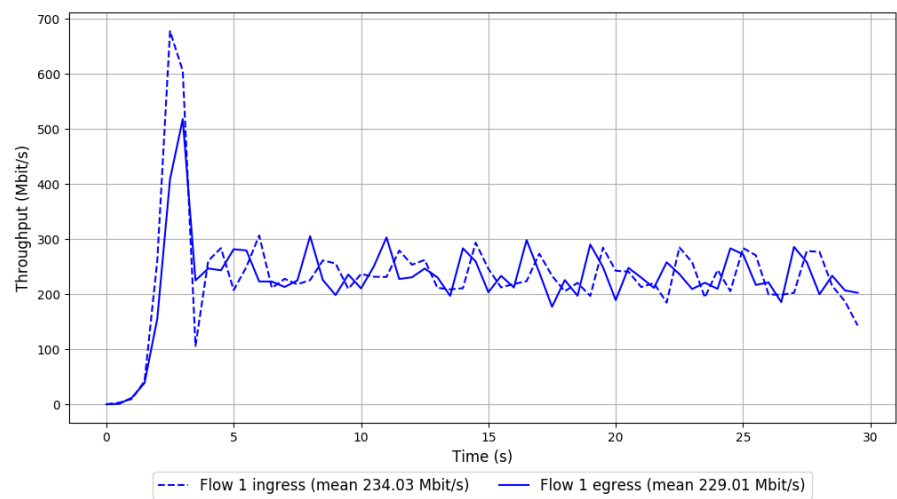
-- Flow 1:

Average throughput: 229.01 Mbit/s

95th percentile per-packet one-way delay: 203.822 ms

Loss rate: 2.13%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

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

End at: 2018-01-02 01:22:31

Below is generated by plot.py at 2018-01-02 03:08:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 172.95 Mbit/s

95th percentile per-packet one-way delay: 178.978 ms

Loss rate: 0.00%

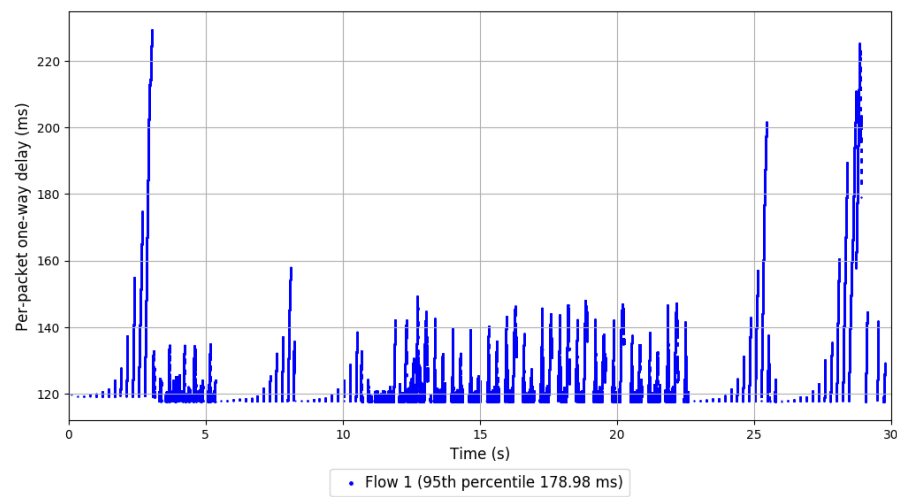
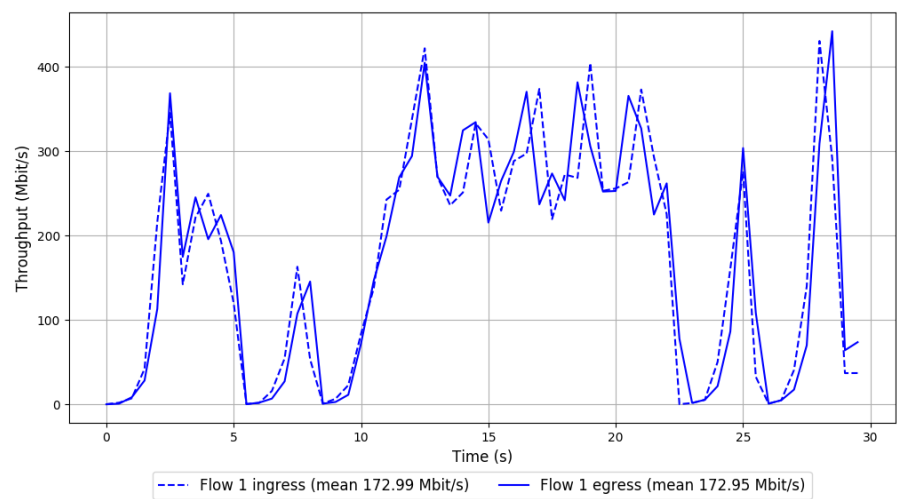
-- Flow 1:

Average throughput: 172.95 Mbit/s

95th percentile per-packet one-way delay: 178.978 ms

Loss rate: 0.00%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-01-02 01:34:22

End at: 2018-01-02 01:34:52

Below is generated by plot.py at 2018-01-02 03:10:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 267.96 Mbit/s

95th percentile per-packet one-way delay: 176.135 ms

Loss rate: 0.76%

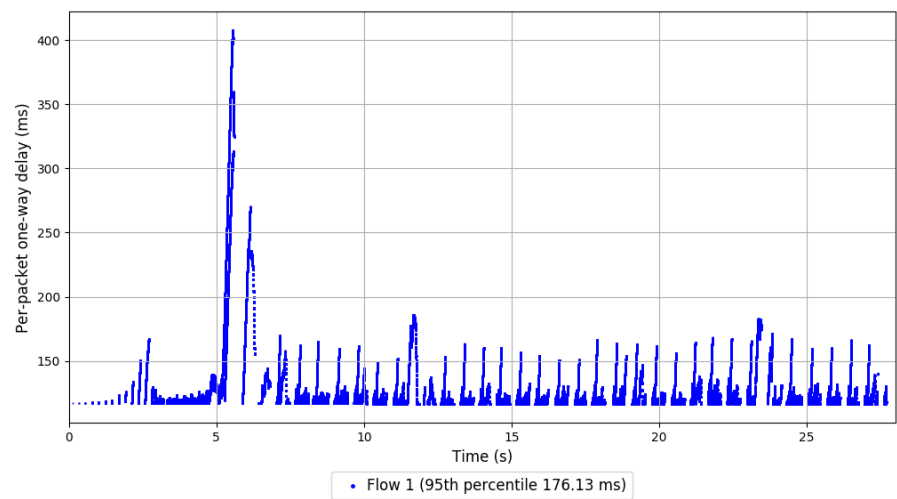
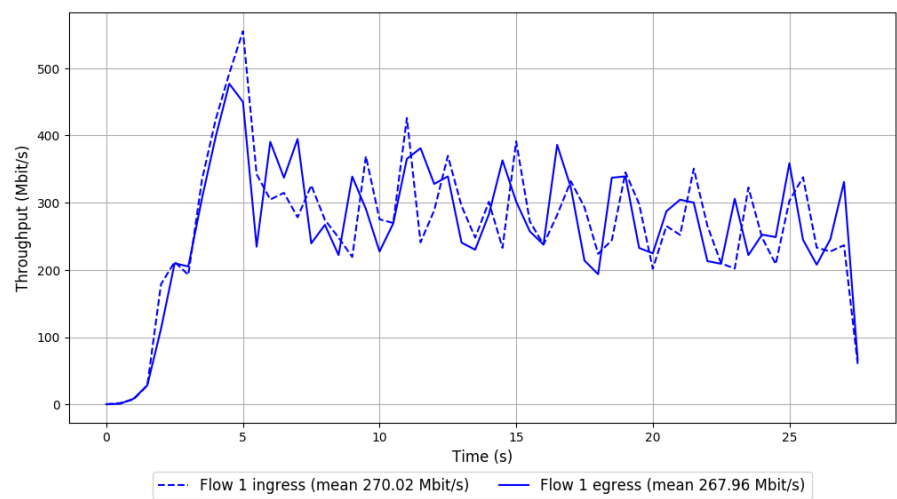
-- Flow 1:

Average throughput: 267.96 Mbit/s

95th percentile per-packet one-way delay: 176.135 ms

Loss rate: 0.76%

Run 10: Report of Verus — Data Link

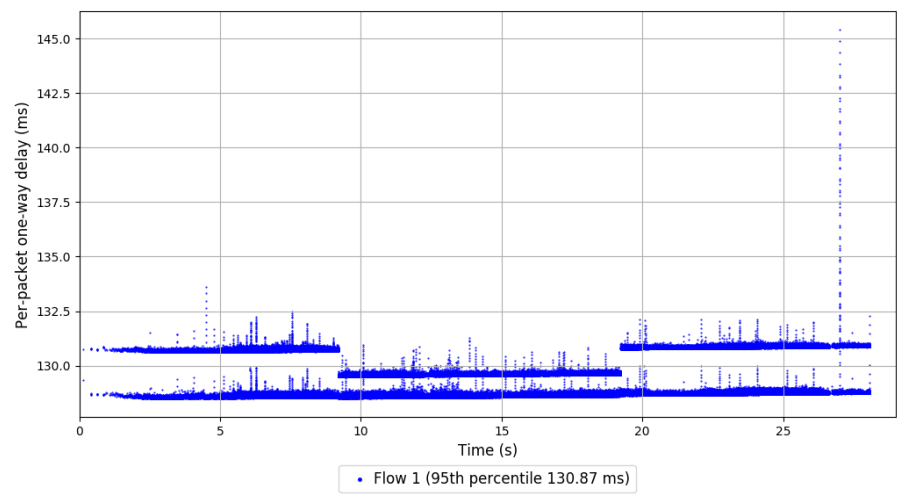
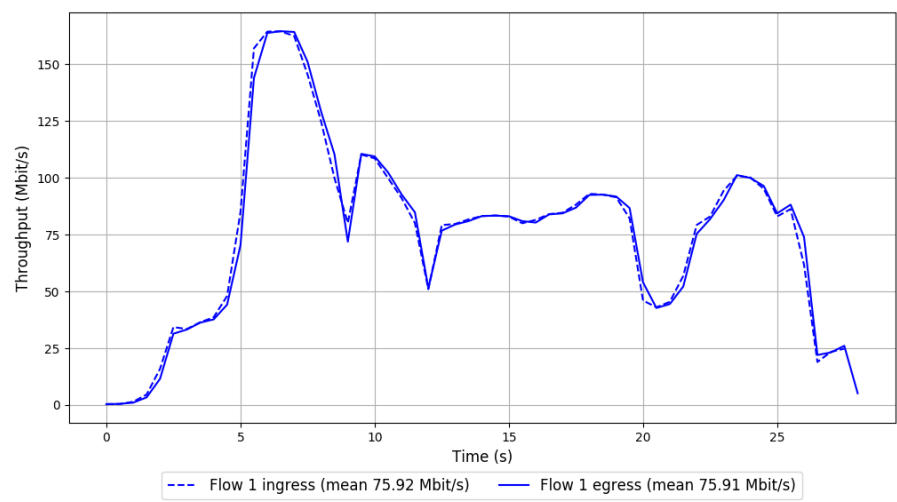


```
Run 1: Statistics of Copa

Start at: 2018-01-01 23:48:03
End at: 2018-01-01 23:48:33

# Below is generated by plot.py at 2018-01-02 03:10:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 75.91 Mbit/s
95th percentile per-packet one-way delay: 130.873 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 75.91 Mbit/s
95th percentile per-packet one-way delay: 130.873 ms
Loss rate: 0.00%
```

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-01-02 00:00:24

End at: 2018-01-02 00:00:54

Below is generated by plot.py at 2018-01-02 03:10:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.04 Mbit/s

95th percentile per-packet one-way delay: 132.229 ms

Loss rate: 0.02%

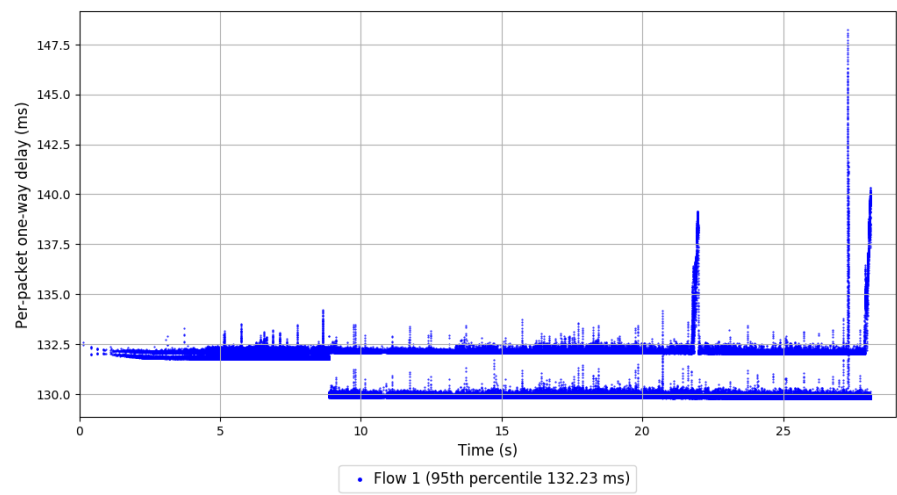
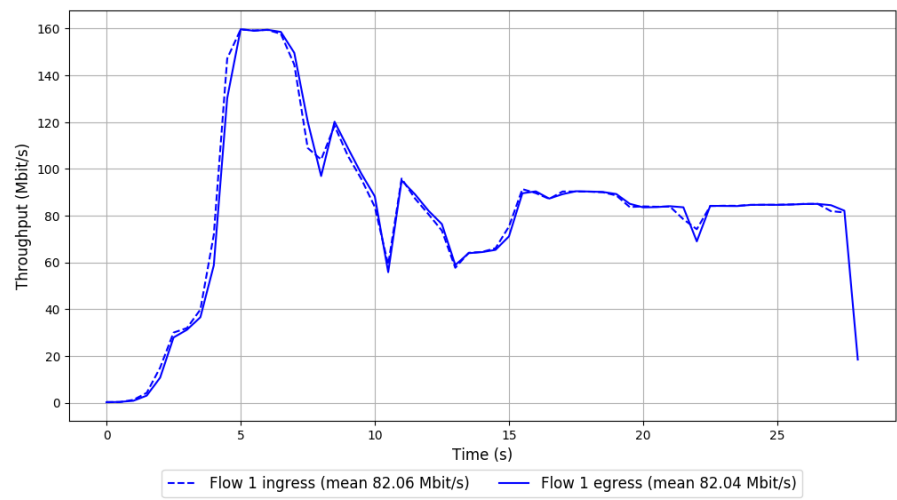
-- Flow 1:

Average throughput: 82.04 Mbit/s

95th percentile per-packet one-way delay: 132.229 ms

Loss rate: 0.02%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-01-02 00:12:35

End at: 2018-01-02 00:13:05

Below is generated by plot.py at 2018-01-02 03:10:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.13 Mbit/s

95th percentile per-packet one-way delay: 131.836 ms

Loss rate: 0.00%

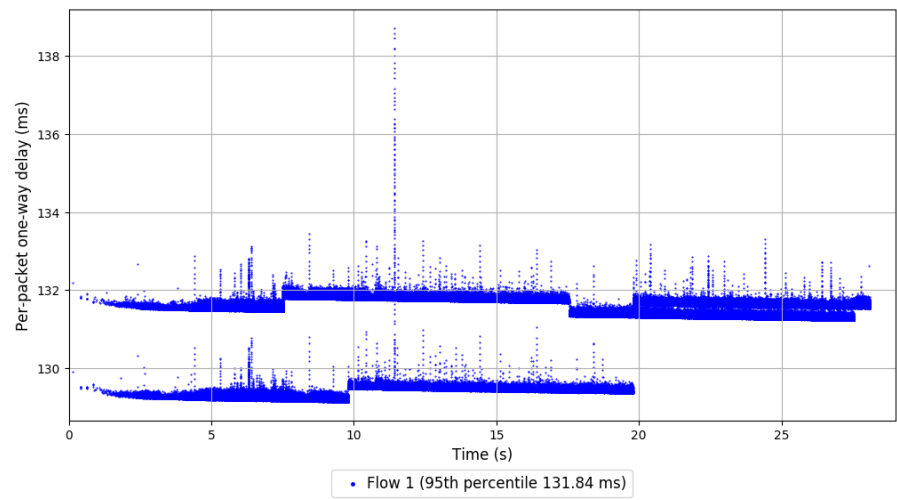
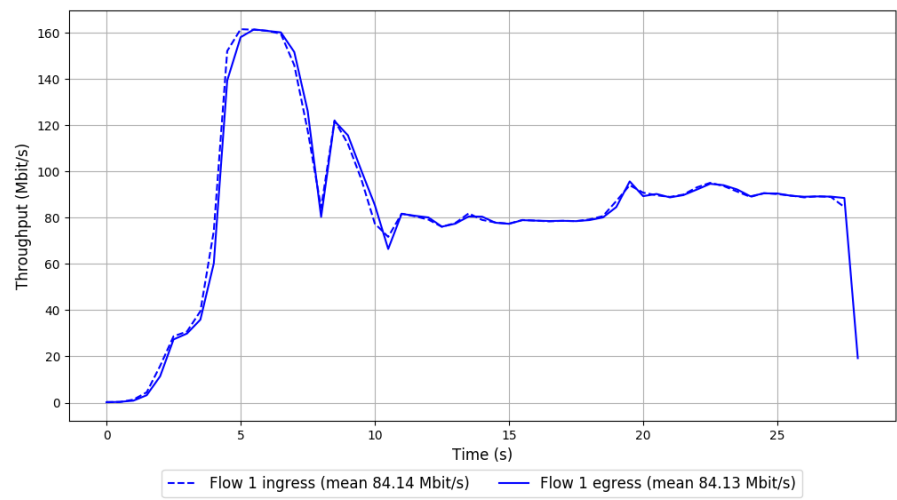
-- Flow 1:

Average throughput: 84.13 Mbit/s

95th percentile per-packet one-way delay: 131.836 ms

Loss rate: 0.00%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-01-02 00:24:53

End at: 2018-01-02 00:25:23

Below is generated by plot.py at 2018-01-02 03:10:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 67.34 Mbit/s

95th percentile per-packet one-way delay: 127.291 ms

Loss rate: 0.00%

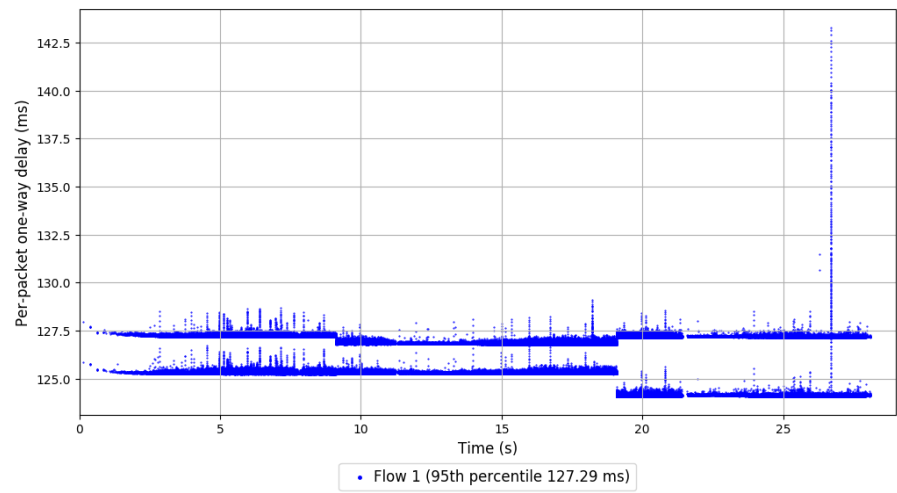
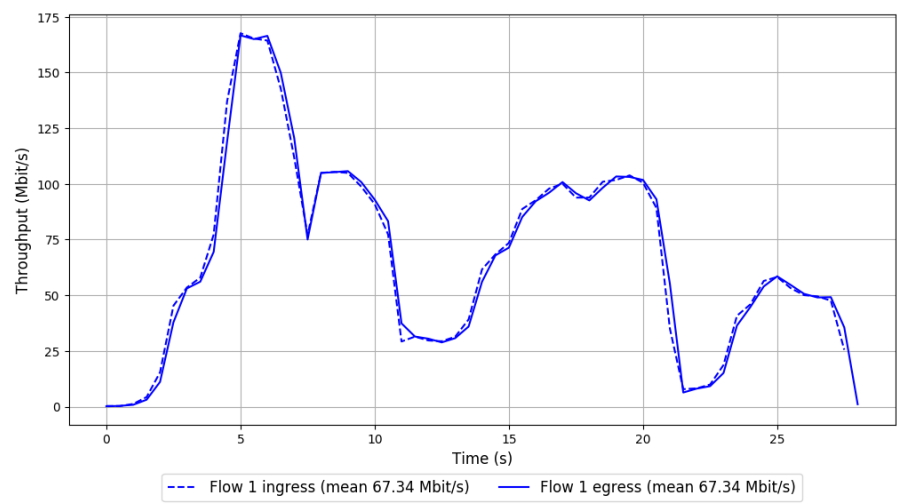
-- Flow 1:

Average throughput: 67.34 Mbit/s

95th percentile per-packet one-way delay: 127.291 ms

Loss rate: 0.00%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-01-02 00:37:09

End at: 2018-01-02 00:37:39

Below is generated by plot.py at 2018-01-02 03:10:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.82 Mbit/s

95th percentile per-packet one-way delay: 125.842 ms

Loss rate: 0.00%

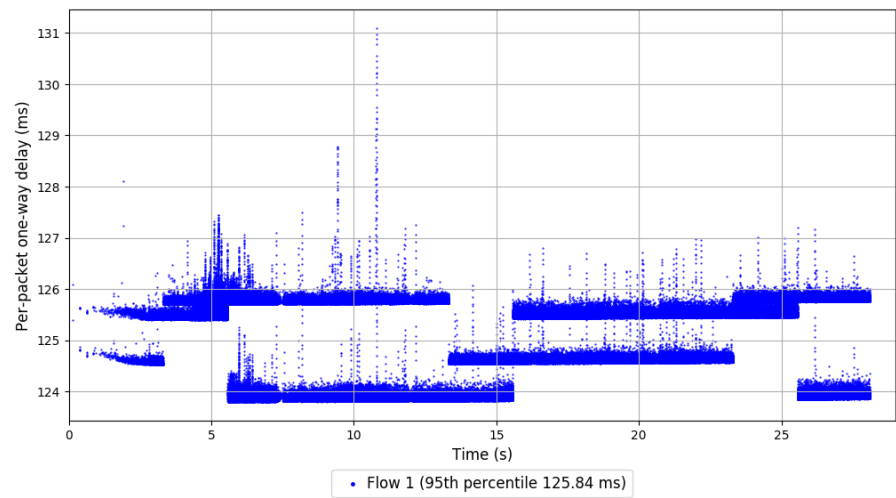
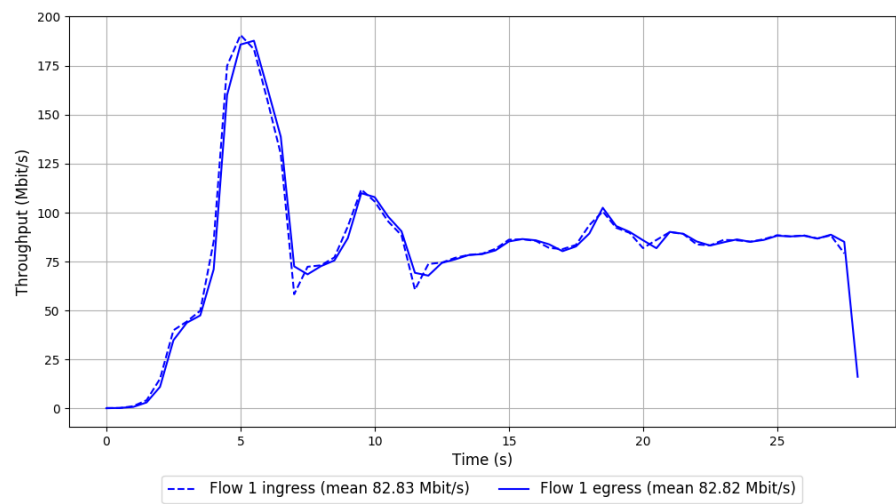
-- Flow 1:

Average throughput: 82.82 Mbit/s

95th percentile per-packet one-way delay: 125.842 ms

Loss rate: 0.00%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-01-02 00:49:41

End at: 2018-01-02 00:50:11

Below is generated by plot.py at 2018-01-02 03:10:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.14 Mbit/s

95th percentile per-packet one-way delay: 127.795 ms

Loss rate: 0.00%

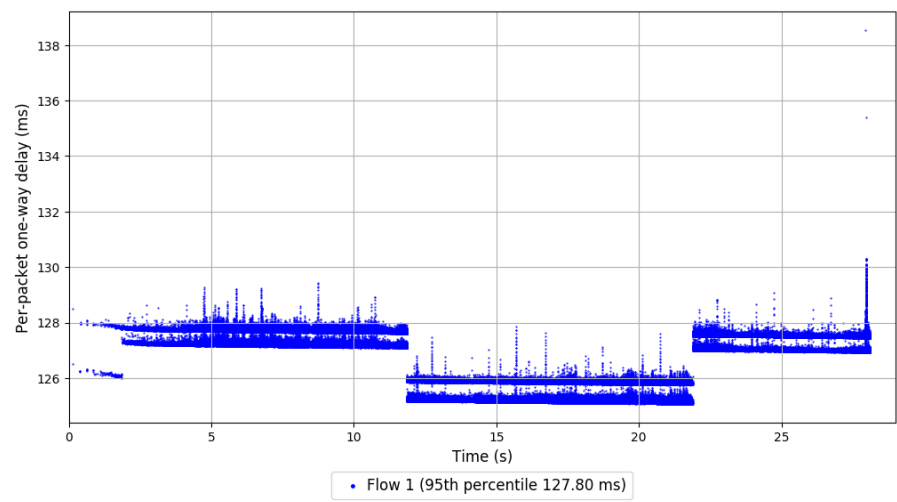
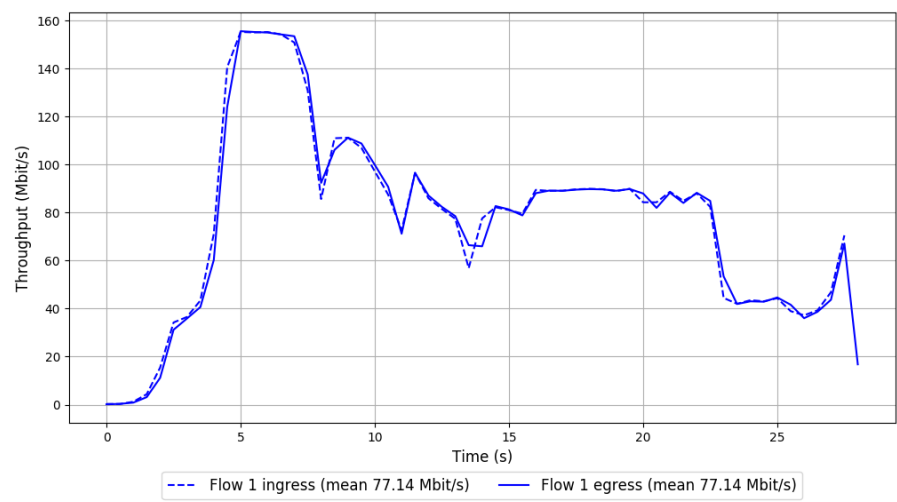
-- Flow 1:

Average throughput: 77.14 Mbit/s

95th percentile per-packet one-way delay: 127.795 ms

Loss rate: 0.00%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

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

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

Below is generated by plot.py at 2018-01-02 03:10:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 81.82 Mbit/s

95th percentile per-packet one-way delay: 120.715 ms

Loss rate: 0.00%

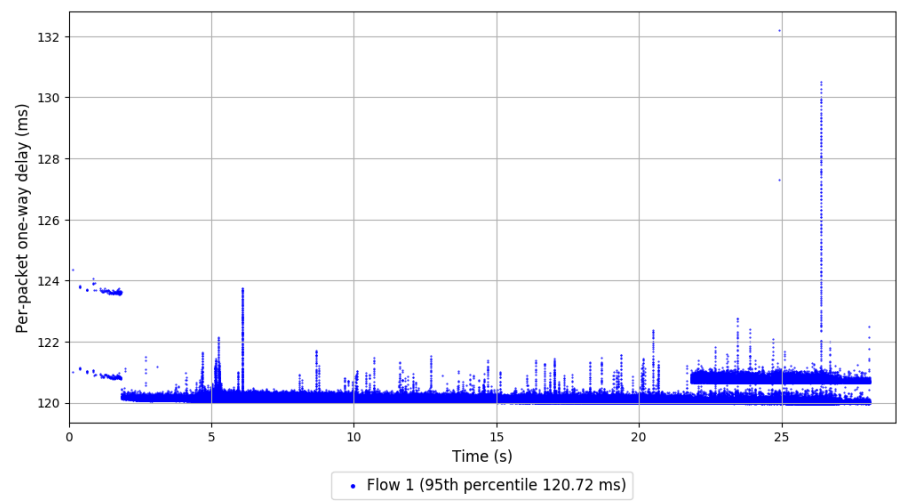
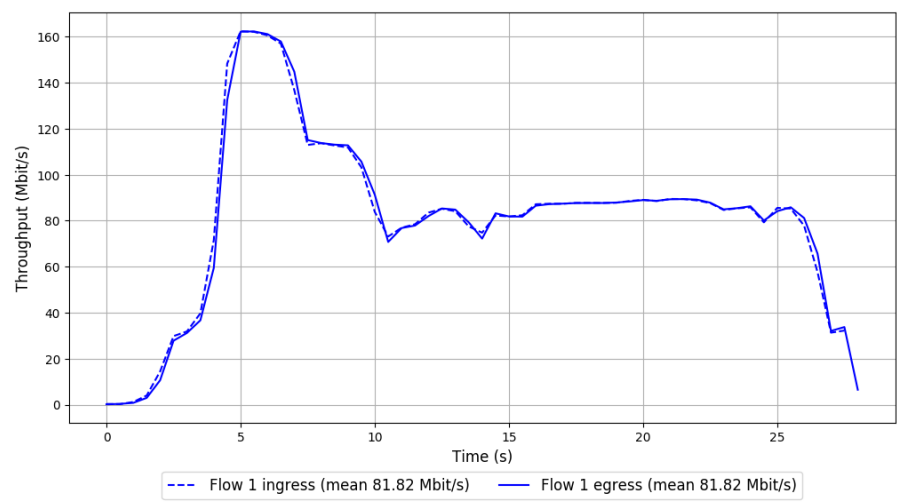
-- Flow 1:

Average throughput: 81.82 Mbit/s

95th percentile per-packet one-way delay: 120.715 ms

Loss rate: 0.00%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-01-02 01:14:31

End at: 2018-01-02 01:15:01

Below is generated by plot.py at 2018-01-02 03:10:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.26 Mbit/s

95th percentile per-packet one-way delay: 123.994 ms

Loss rate: 0.02%

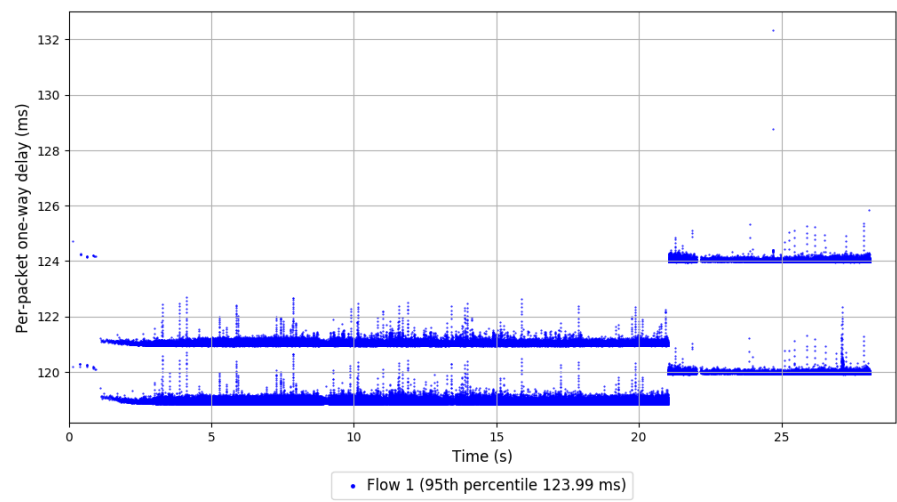
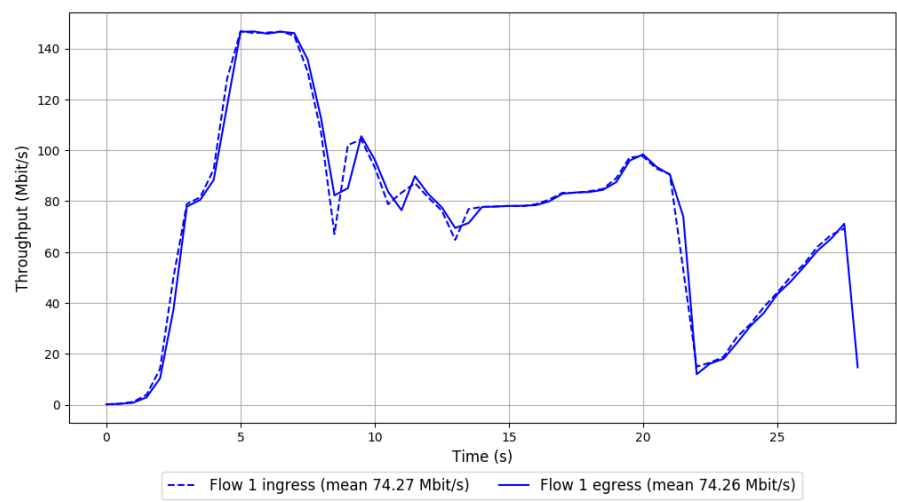
-- Flow 1:

Average throughput: 74.26 Mbit/s

95th percentile per-packet one-way delay: 123.994 ms

Loss rate: 0.02%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-01-02 01:26:39

End at: 2018-01-02 01:27:09

Below is generated by plot.py at 2018-01-02 03:11:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 80.60 Mbit/s

95th percentile per-packet one-way delay: 119.713 ms

Loss rate: 0.00%

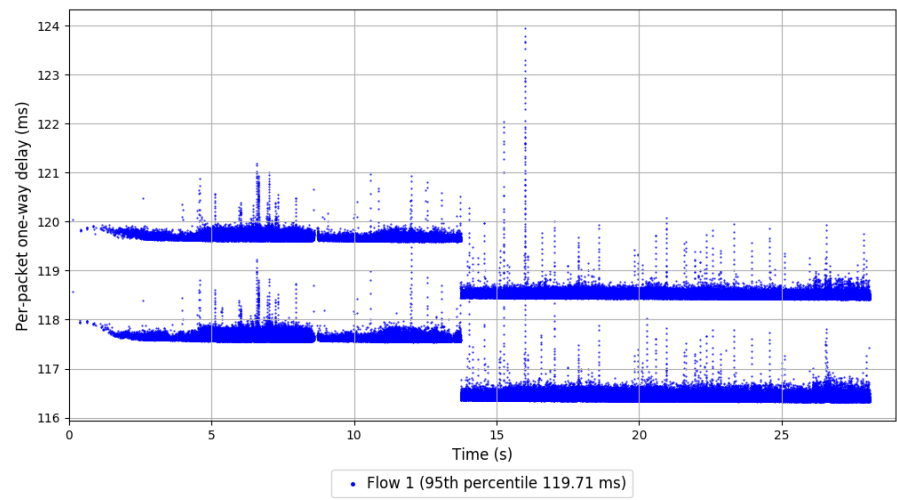
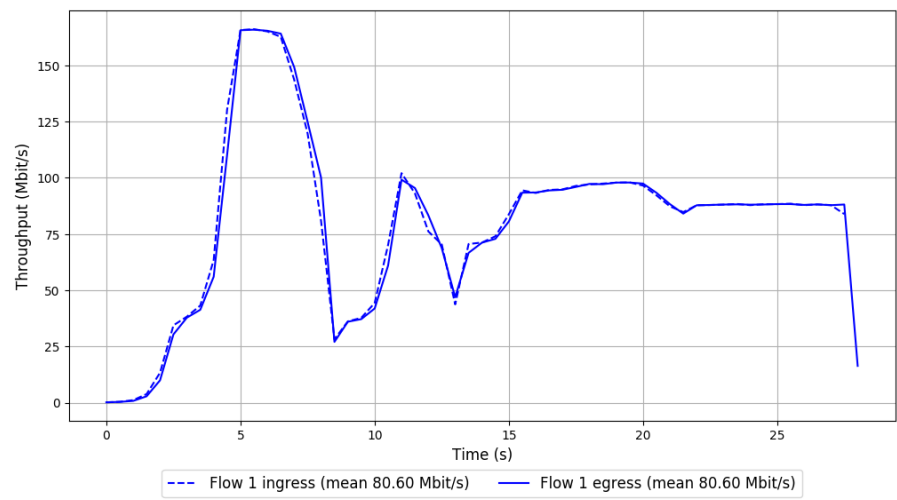
-- Flow 1:

Average throughput: 80.60 Mbit/s

95th percentile per-packet one-way delay: 119.713 ms

Loss rate: 0.00%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-01-02 01:39:07

End at: 2018-01-02 01:39:37

Below is generated by plot.py at 2018-01-02 03:11:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.47 Mbit/s

95th percentile per-packet one-way delay: 118.517 ms

Loss rate: 0.00%

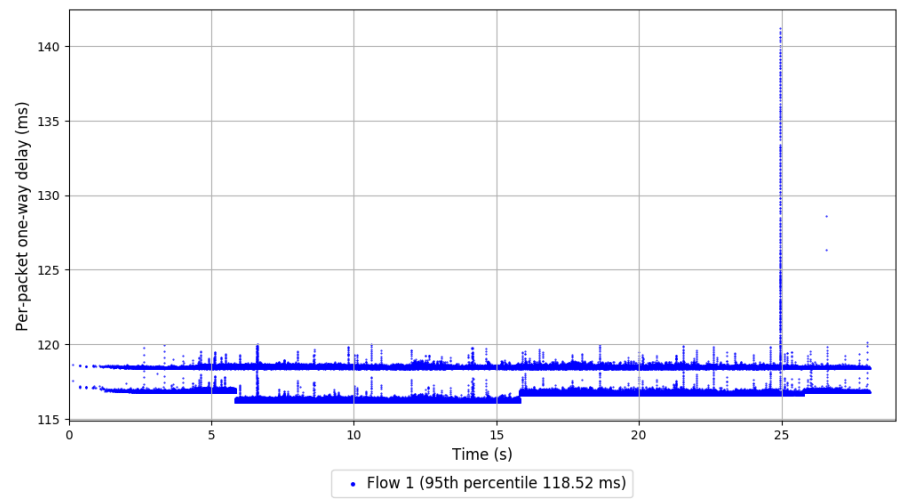
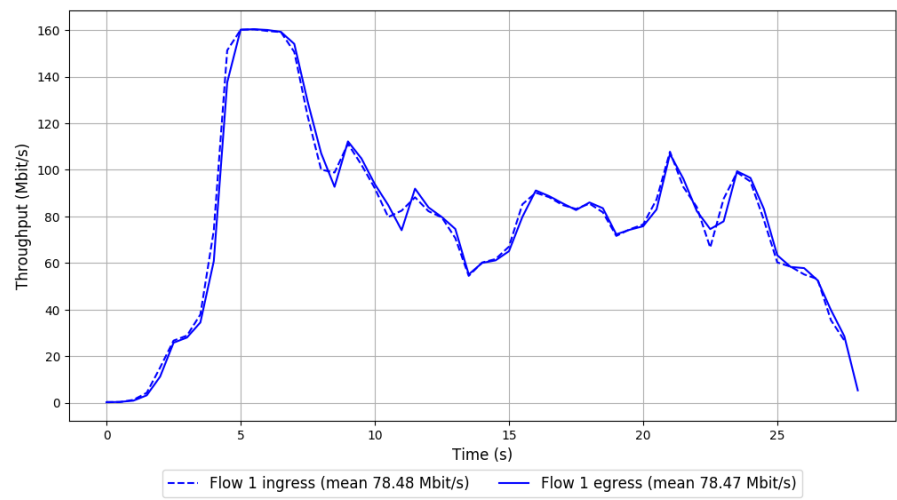
-- Flow 1:

Average throughput: 78.47 Mbit/s

95th percentile per-packet one-way delay: 118.517 ms

Loss rate: 0.00%

Run 10: Report of Copa — Data Link

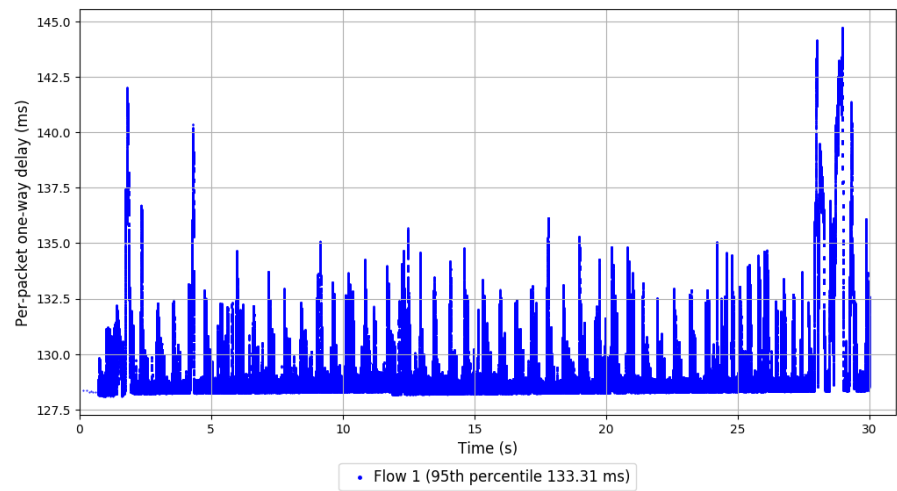
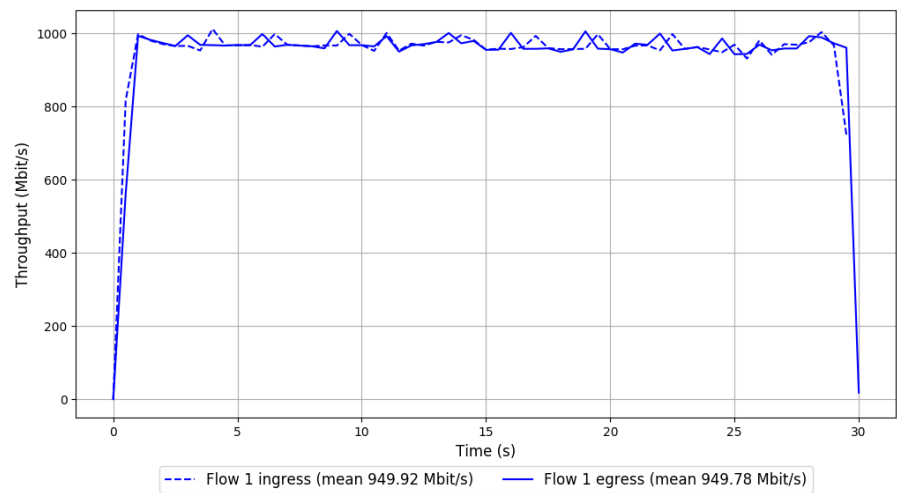


```
Run 1: Statistics of FillP

Start at: 2018-01-01 23:48:52
End at: 2018-01-01 23:49:22

# Below is generated by plot.py at 2018-01-02 03:28:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 949.78 Mbit/s
95th percentile per-packet one-way delay: 133.310 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 949.78 Mbit/s
95th percentile per-packet one-way delay: 133.310 ms
Loss rate: 0.01%
```


Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

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

End at: 2018-01-02 00:01:44

Below is generated by plot.py at 2018-01-02 03:28:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 948.76 Mbit/s

95th percentile per-packet one-way delay: 135.250 ms

Loss rate: 0.00%

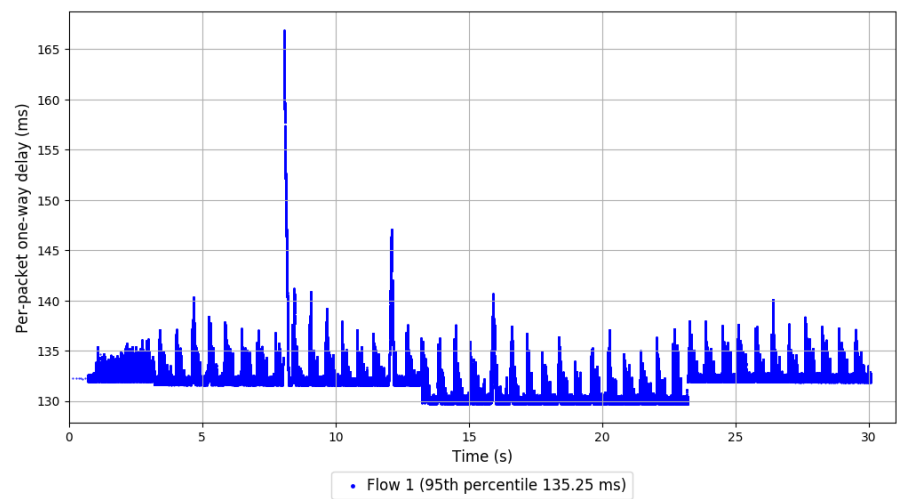
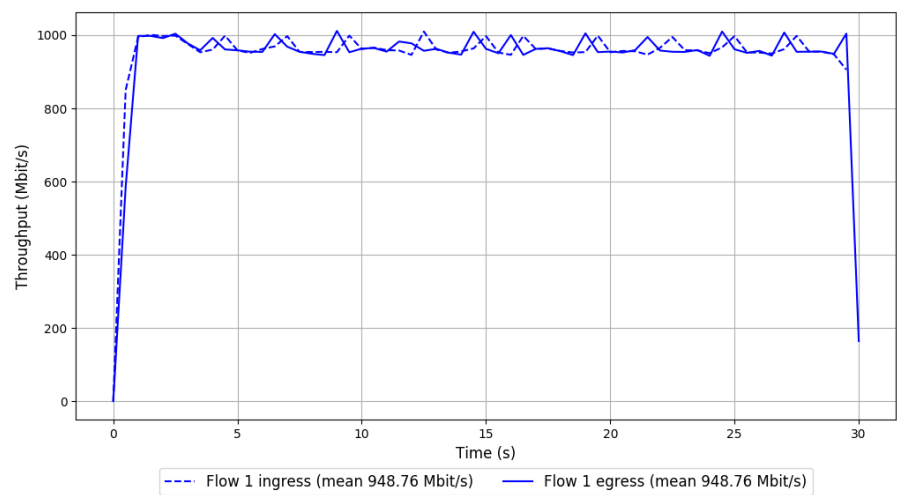
-- Flow 1:

Average throughput: 948.76 Mbit/s

95th percentile per-packet one-way delay: 135.250 ms

Loss rate: 0.00%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-01-02 00:13:25

End at: 2018-01-02 00:13:55

Below is generated by plot.py at 2018-01-02 03:28:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 952.19 Mbit/s

95th percentile per-packet one-way delay: 185.683 ms

Loss rate: 0.23%

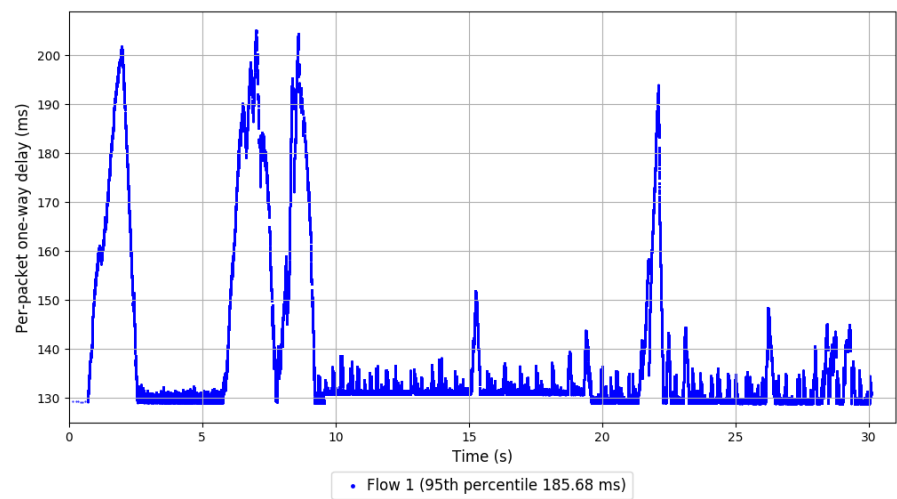
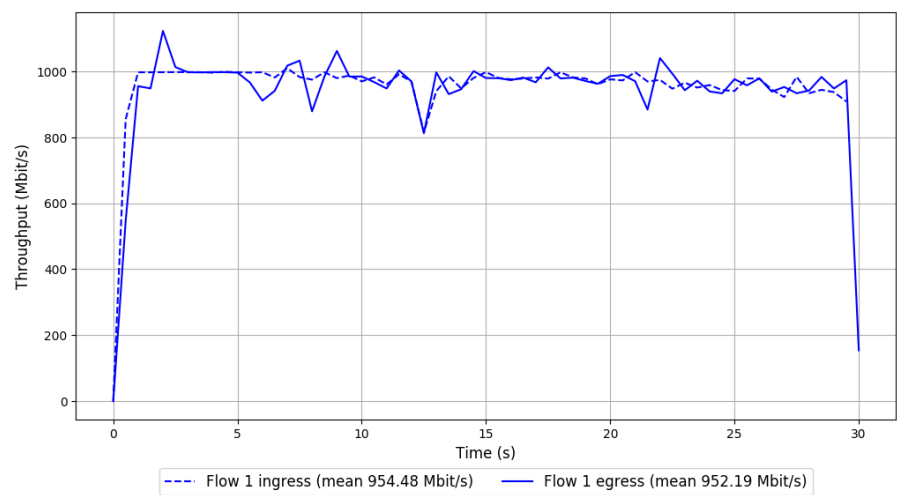
-- Flow 1:

Average throughput: 952.19 Mbit/s

95th percentile per-packet one-way delay: 185.683 ms

Loss rate: 0.23%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-01-02 00:25:42

End at: 2018-01-02 00:26:12

Below is generated by plot.py at 2018-01-02 03:28:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 952.14 Mbit/s

95th percentile per-packet one-way delay: 264.883 ms

Loss rate: 0.53%

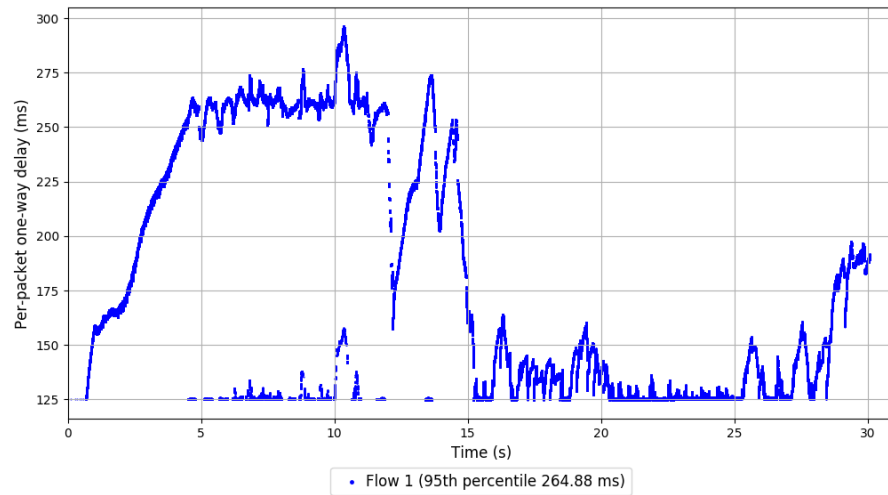
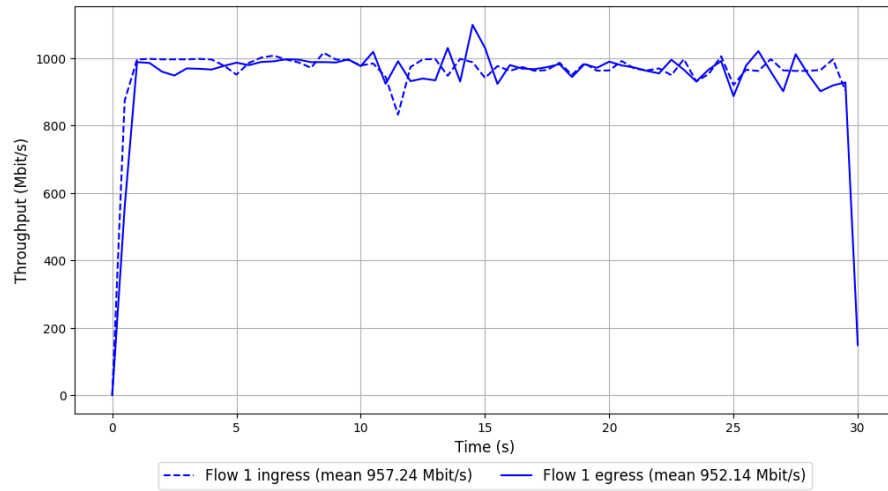
-- Flow 1:

Average throughput: 952.14 Mbit/s

95th percentile per-packet one-way delay: 264.883 ms

Loss rate: 0.53%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-01-02 00:37:59

End at: 2018-01-02 00:38:29

Below is generated by plot.py at 2018-01-02 03:29:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 961.70 Mbit/s

95th percentile per-packet one-way delay: 147.124 ms

Loss rate: 0.00%

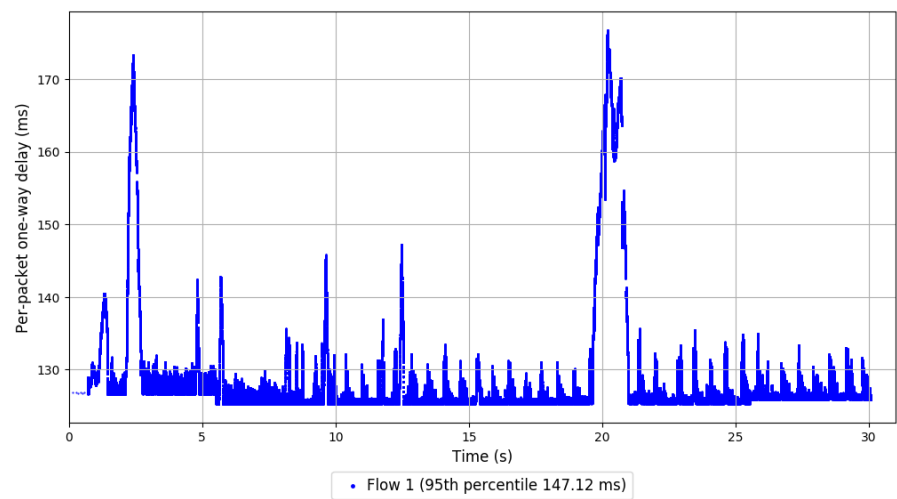
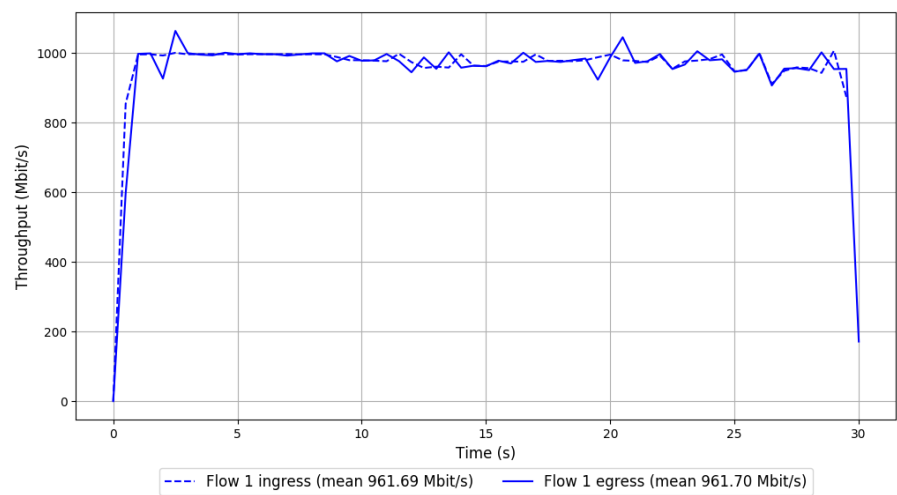
-- Flow 1:

Average throughput: 961.70 Mbit/s

95th percentile per-packet one-way delay: 147.124 ms

Loss rate: 0.00%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-01-02 00:50:30

End at: 2018-01-02 00:51:00

Below is generated by plot.py at 2018-01-02 03:29:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 978.83 Mbit/s

95th percentile per-packet one-way delay: 129.397 ms

Loss rate: 0.00%

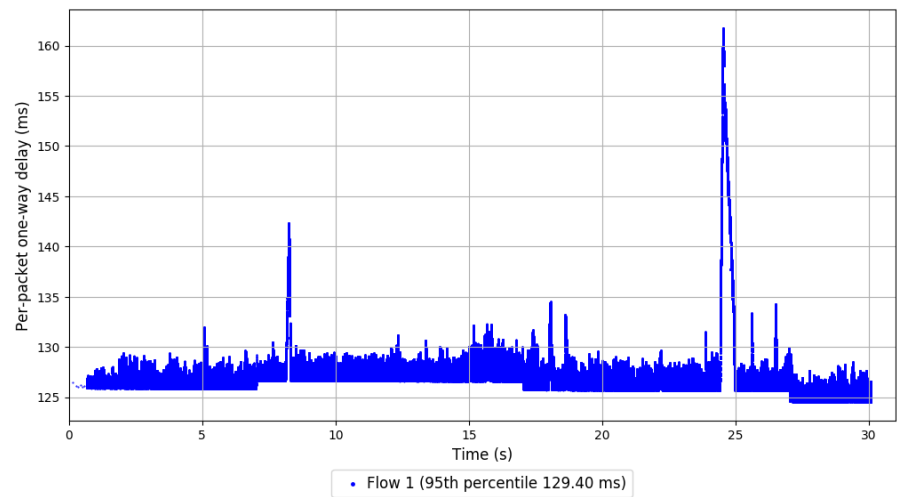
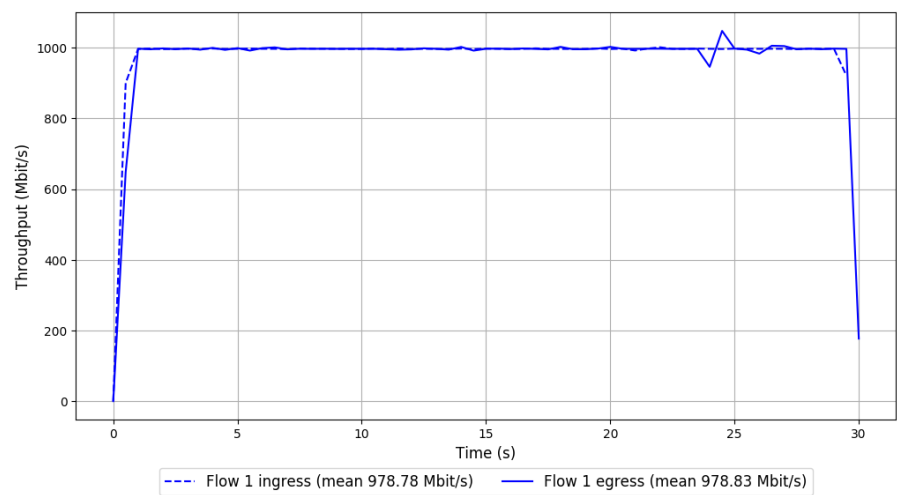
-- Flow 1:

Average throughput: 978.83 Mbit/s

95th percentile per-packet one-way delay: 129.397 ms

Loss rate: 0.00%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-01-02 01:03:00

End at: 2018-01-02 01:03:30

Below is generated by plot.py at 2018-01-02 03:30:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 969.11 Mbit/s

95th percentile per-packet one-way delay: 155.155 ms

Loss rate: 0.14%

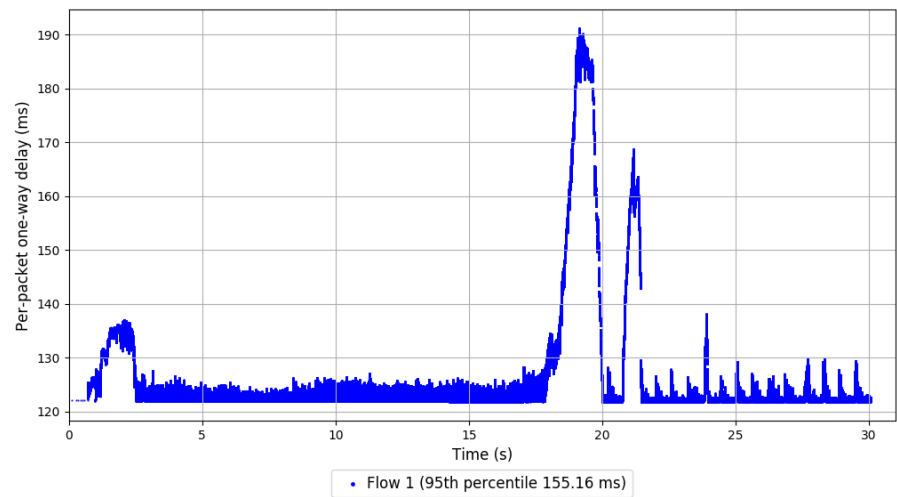
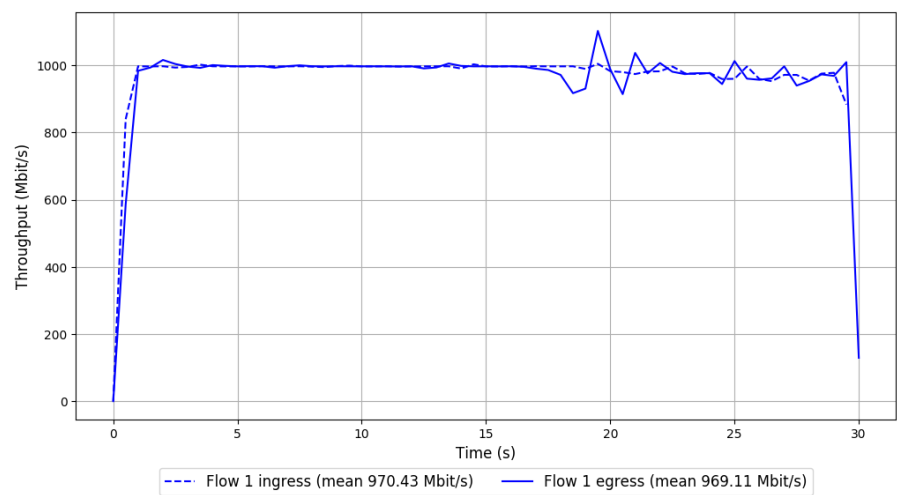
-- Flow 1:

Average throughput: 969.11 Mbit/s

95th percentile per-packet one-way delay: 155.155 ms

Loss rate: 0.14%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-01-02 01:15:20

End at: 2018-01-02 01:15:51

Below is generated by plot.py at 2018-01-02 03:30:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 953.43 Mbit/s

95th percentile per-packet one-way delay: 135.017 ms

Loss rate: 0.01%

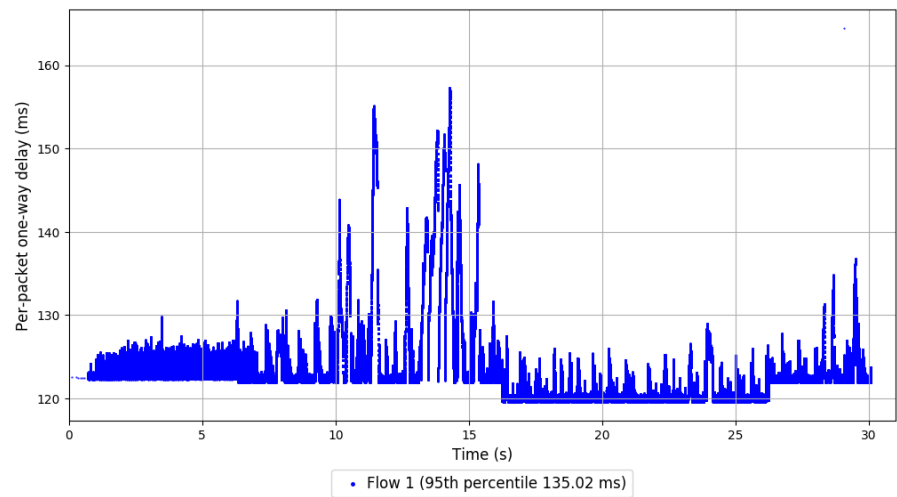
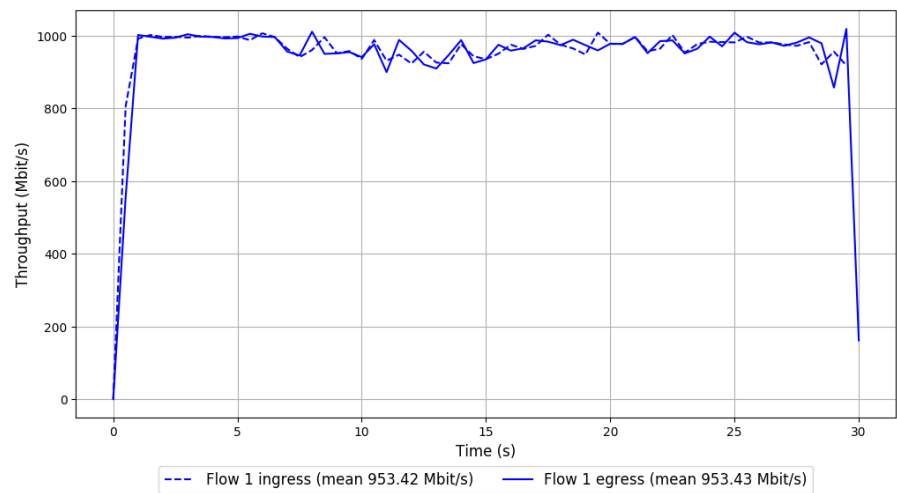
-- Flow 1:

Average throughput: 953.43 Mbit/s

95th percentile per-packet one-way delay: 135.017 ms

Loss rate: 0.01%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-01-02 01:27:28

End at: 2018-01-02 01:27:58

Below is generated by plot.py at 2018-01-02 03:38:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 957.67 Mbit/s

95th percentile per-packet one-way delay: 124.637 ms

Loss rate: 0.00%

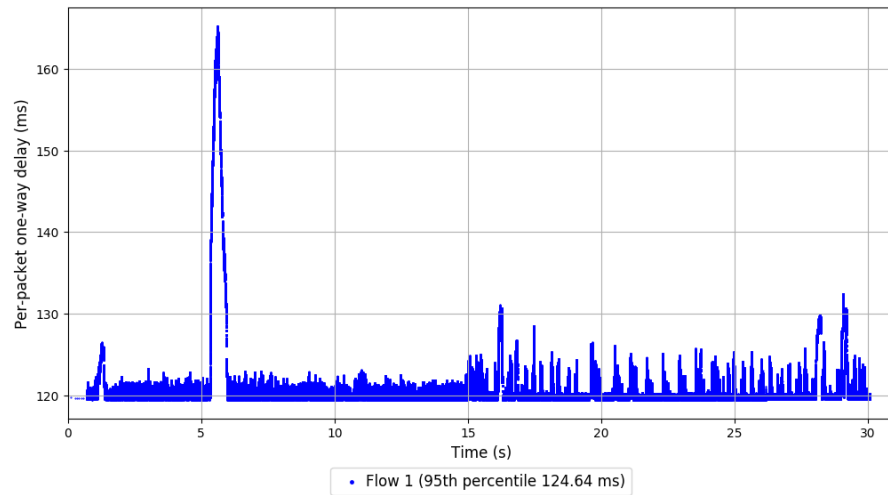
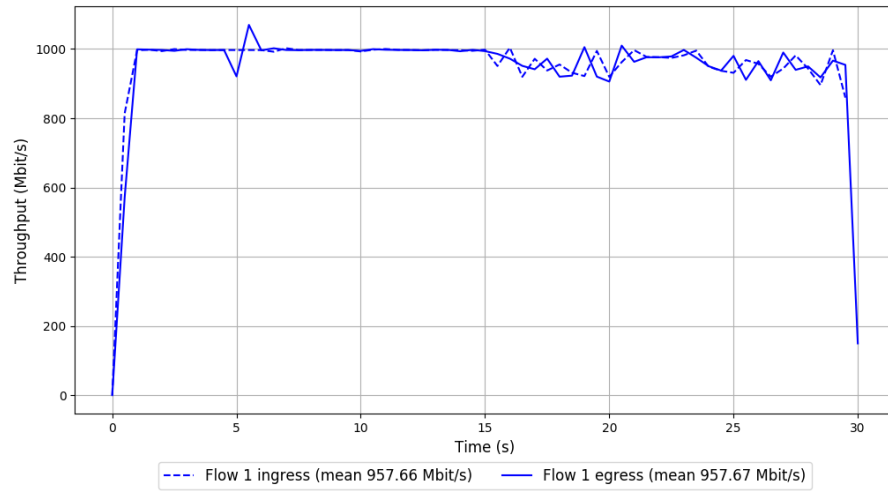
-- Flow 1:

Average throughput: 957.67 Mbit/s

95th percentile per-packet one-way delay: 124.637 ms

Loss rate: 0.00%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-01-02 01:39:56

End at: 2018-01-02 01:40:26

Below is generated by plot.py at 2018-01-02 03:38:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 977.55 Mbit/s

95th percentile per-packet one-way delay: 121.571 ms

Loss rate: 0.00%

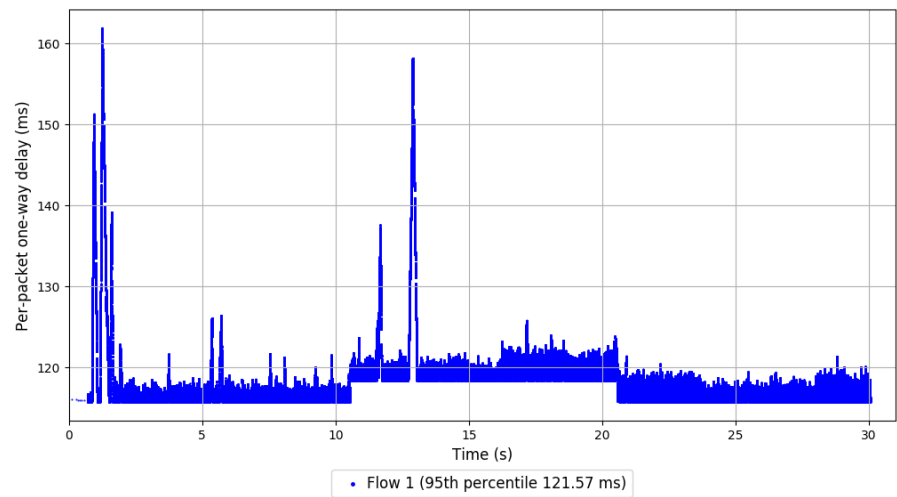
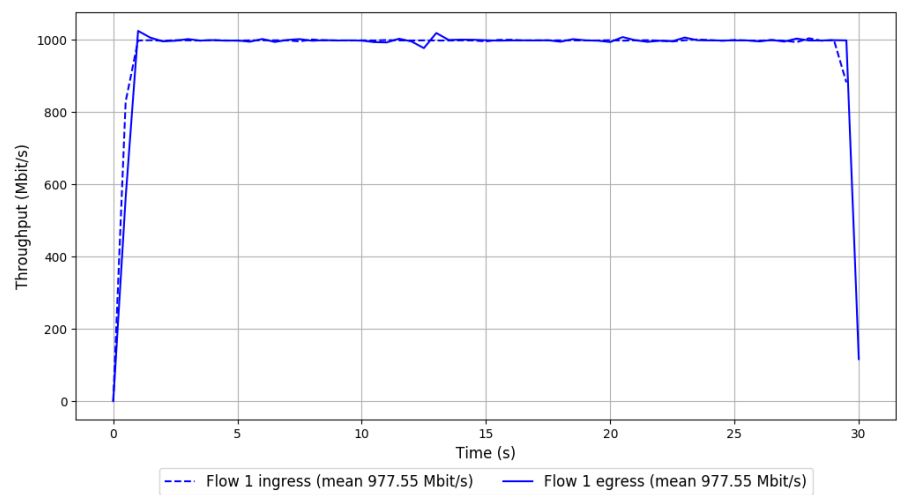
-- Flow 1:

Average throughput: 977.55 Mbit/s

95th percentile per-packet one-way delay: 121.571 ms

Loss rate: 0.00%

Run 10: Report of FillP — Data Link

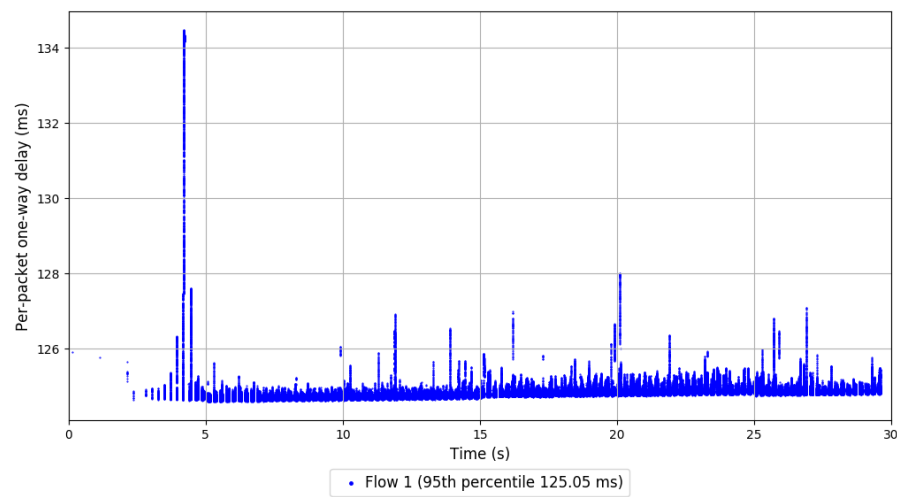
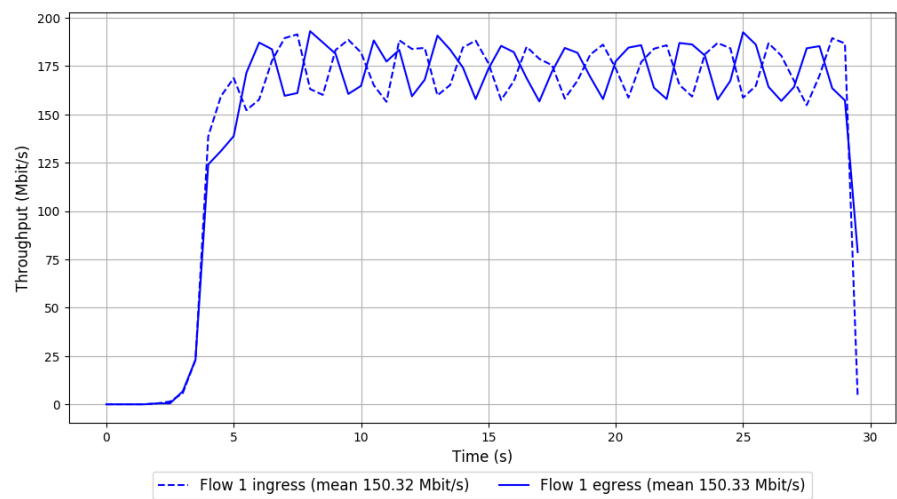


```
Run 1: Statistics of Indigo

Start at: 2018-01-01 23:40:29
End at: 2018-01-01 23:40:59

# Below is generated by plot.py at 2018-01-02 03:38:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 150.33 Mbit/s
95th percentile per-packet one-way delay: 125.047 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 150.33 Mbit/s
95th percentile per-packet one-way delay: 125.047 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2018-01-01 23:52:21

End at: 2018-01-01 23:52:51

Below is generated by plot.py at 2018-01-02 03:38:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 170.34 Mbit/s

95th percentile per-packet one-way delay: 131.604 ms

Loss rate: 0.00%

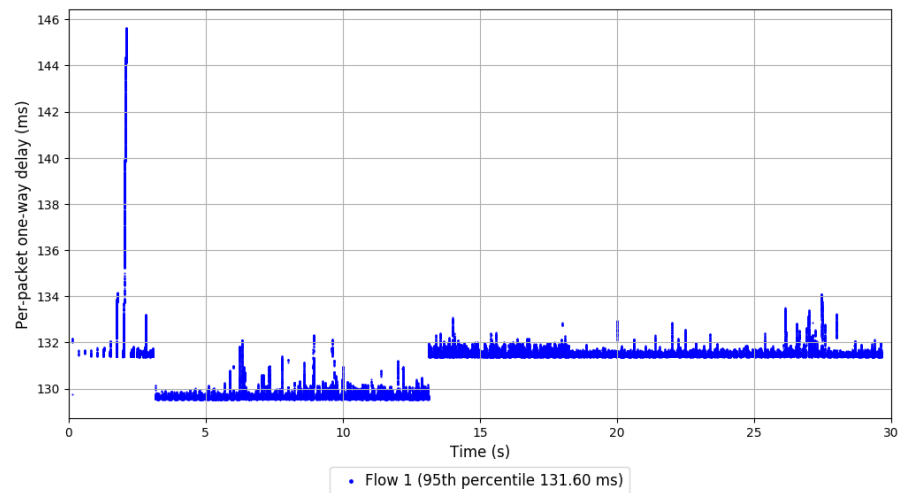
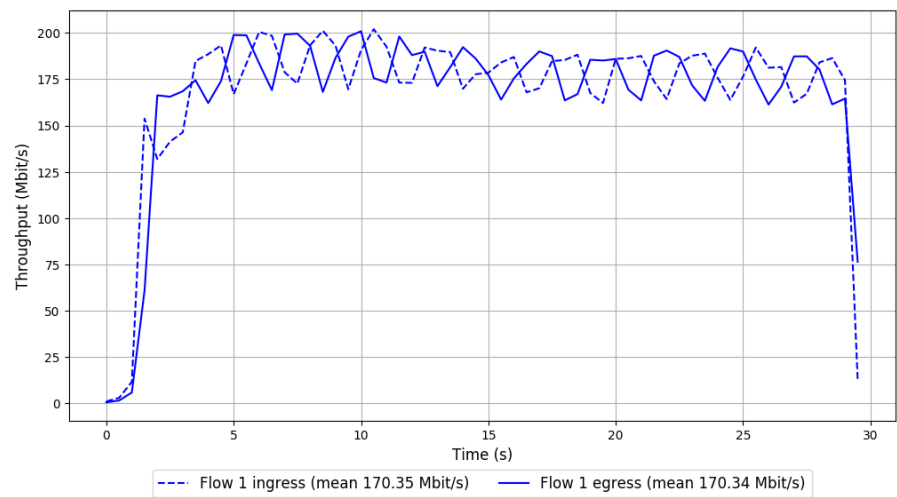
-- Flow 1:

Average throughput: 170.34 Mbit/s

95th percentile per-packet one-way delay: 131.604 ms

Loss rate: 0.00%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-01-02 00:04:36

End at: 2018-01-02 00:05:06

Below is generated by plot.py at 2018-01-02 03:38:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 173.05 Mbit/s

95th percentile per-packet one-way delay: 131.791 ms

Loss rate: 0.00%

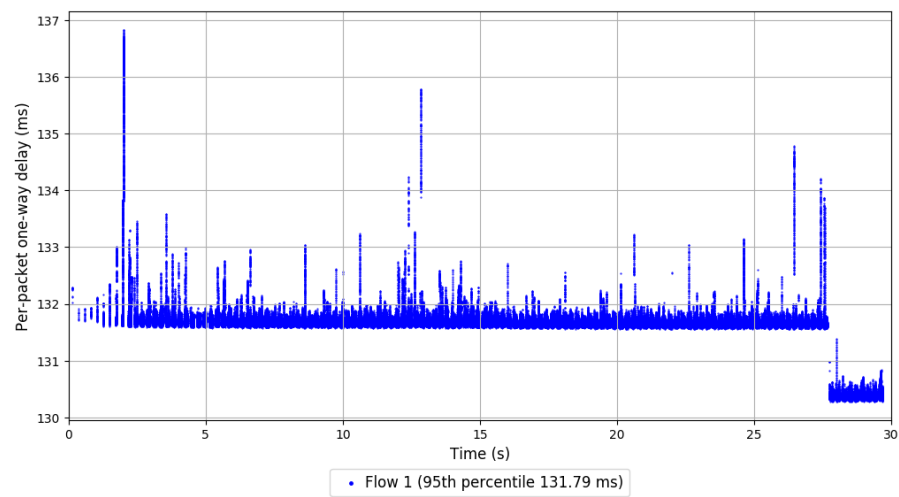
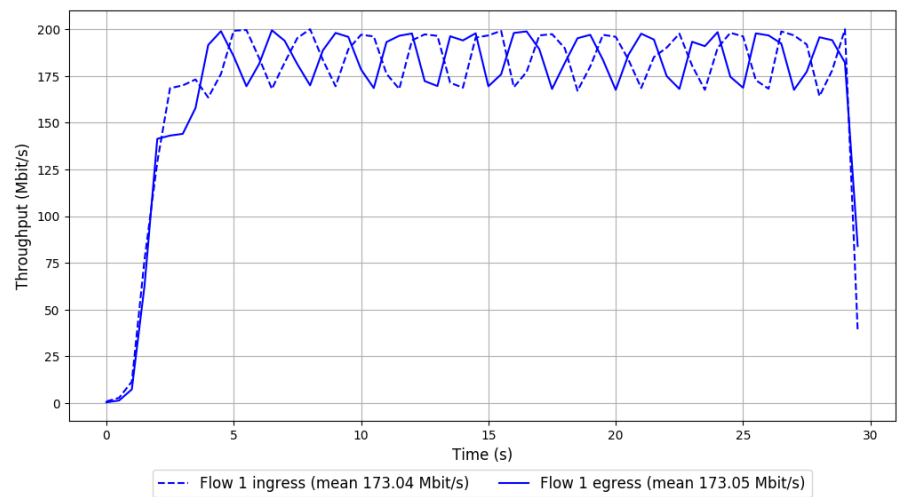
-- Flow 1:

Average throughput: 173.05 Mbit/s

95th percentile per-packet one-way delay: 131.791 ms

Loss rate: 0.00%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-01-02 00:16:57

End at: 2018-01-02 00:17:28

Below is generated by plot.py at 2018-01-02 03:38:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 168.79 Mbit/s

95th percentile per-packet one-way delay: 129.574 ms

Loss rate: 0.00%

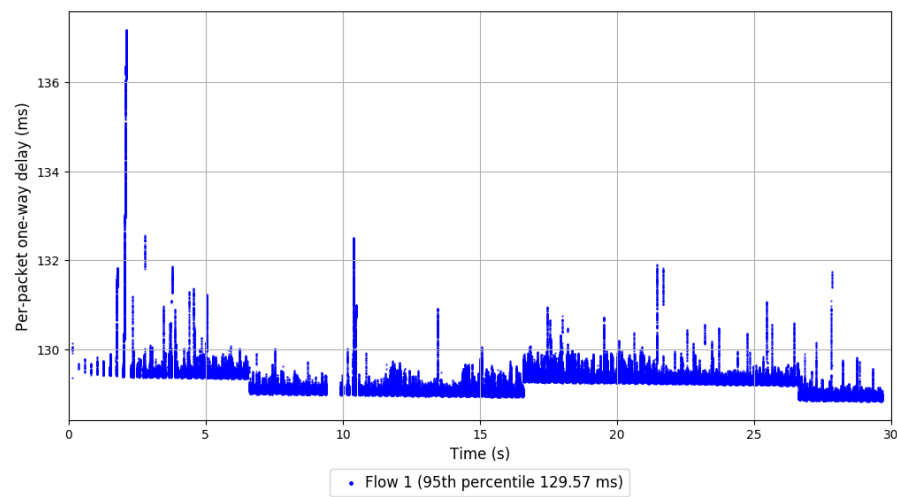
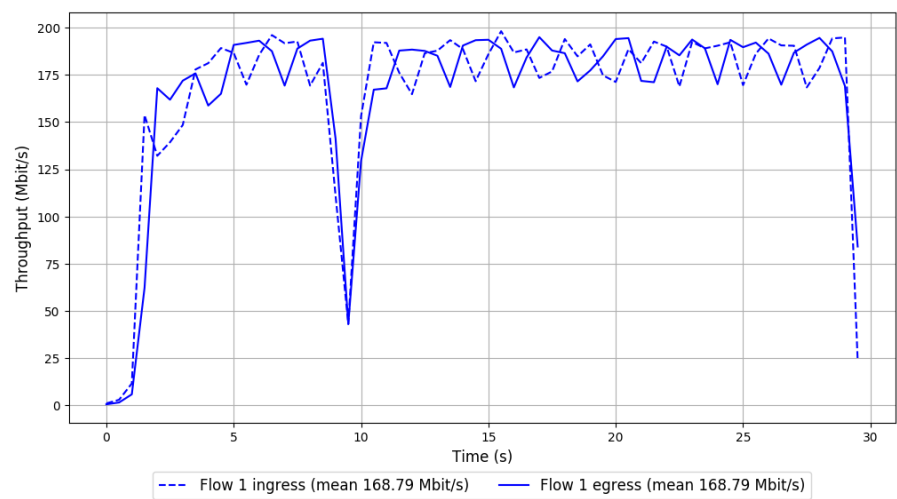
-- Flow 1:

Average throughput: 168.79 Mbit/s

95th percentile per-packet one-way delay: 129.574 ms

Loss rate: 0.00%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-01-02 00:29:14

End at: 2018-01-02 00:29:44

Below is generated by plot.py at 2018-01-02 03:38:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 167.59 Mbit/s

95th percentile per-packet one-way delay: 126.476 ms

Loss rate: 0.01%

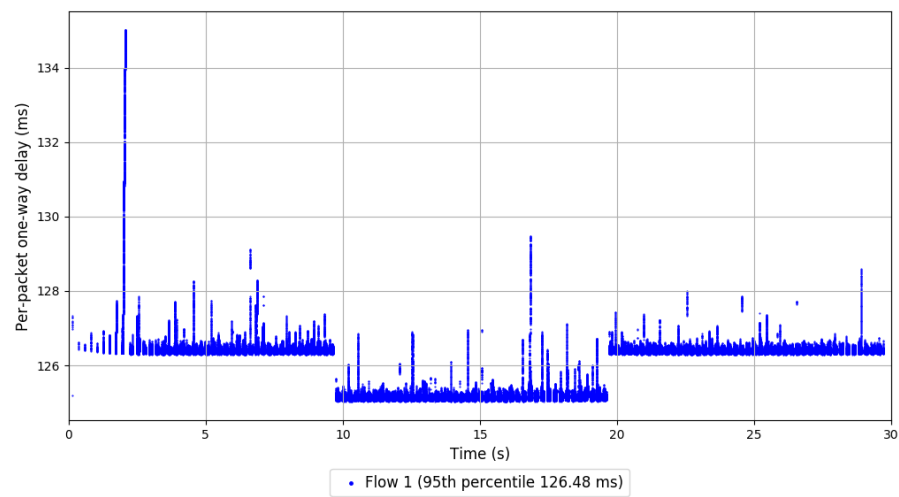
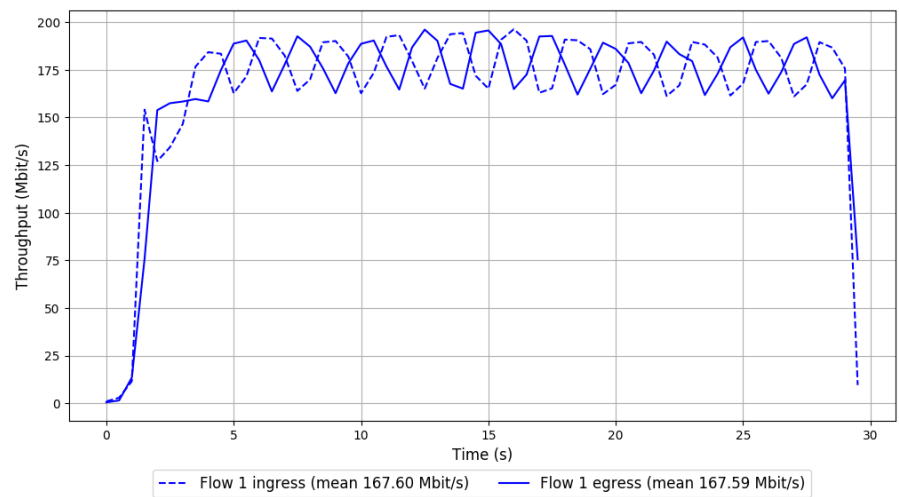
-- Flow 1:

Average throughput: 167.59 Mbit/s

95th percentile per-packet one-way delay: 126.476 ms

Loss rate: 0.01%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2018-01-02 00:41:27

End at: 2018-01-02 00:41:57

Below is generated by plot.py at 2018-01-02 03:38:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 170.01 Mbit/s

95th percentile per-packet one-way delay: 128.015 ms

Loss rate: 0.01%

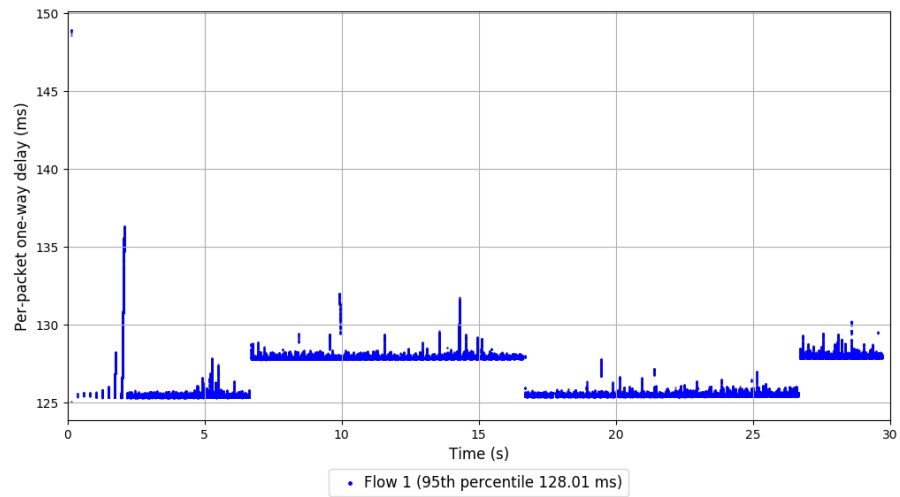
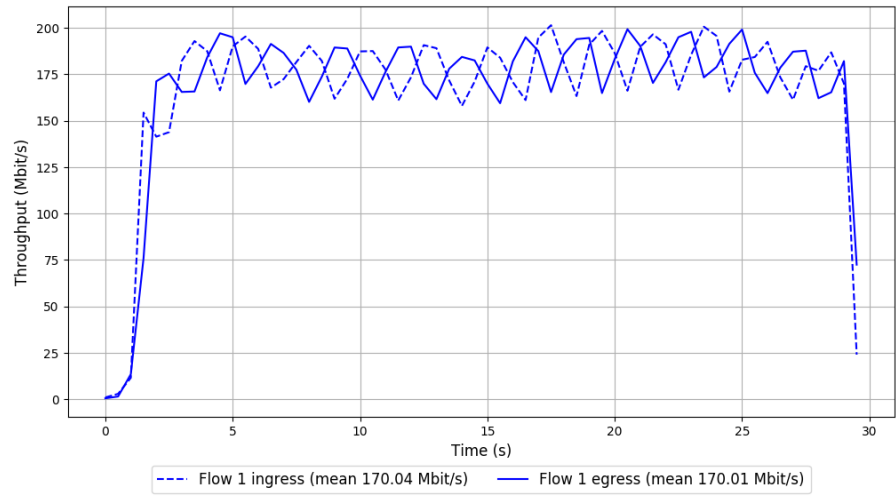
-- Flow 1:

Average throughput: 170.01 Mbit/s

95th percentile per-packet one-way delay: 128.015 ms

Loss rate: 0.01%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2018-01-02 00:53:59

End at: 2018-01-02 00:54:29

Below is generated by plot.py at 2018-01-02 03:38:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 173.15 Mbit/s

95th percentile per-packet one-way delay: 126.254 ms

Loss rate: 0.00%

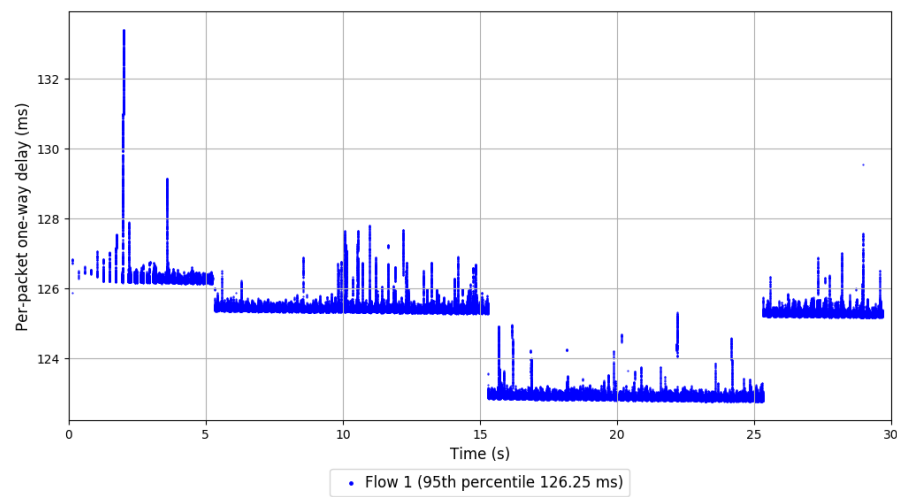
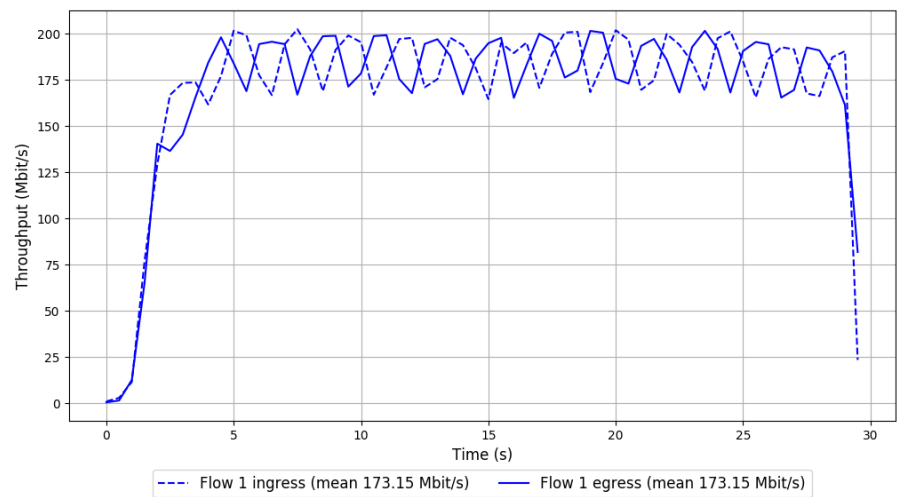
-- Flow 1:

Average throughput: 173.15 Mbit/s

95th percentile per-packet one-way delay: 126.254 ms

Loss rate: 0.00%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2018-01-02 01:06:30

End at: 2018-01-02 01:07:00

Below is generated by plot.py at 2018-01-02 03:38:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 168.50 Mbit/s

95th percentile per-packet one-way delay: 124.541 ms

Loss rate: 0.03%

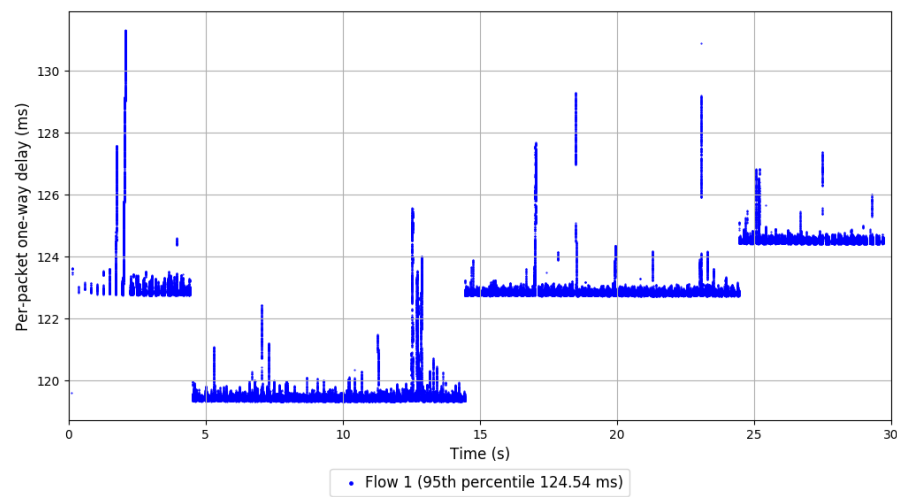
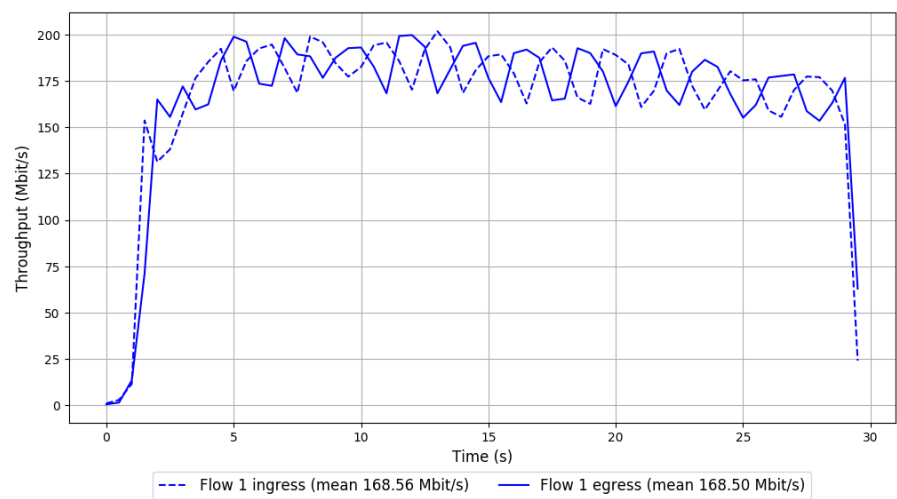
-- Flow 1:

Average throughput: 168.50 Mbit/s

95th percentile per-packet one-way delay: 124.541 ms

Loss rate: 0.03%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2018-01-02 01:18:44

End at: 2018-01-02 01:19:14

Below is generated by plot.py at 2018-01-02 03:38:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 167.45 Mbit/s

95th percentile per-packet one-way delay: 123.856 ms

Loss rate: 0.00%

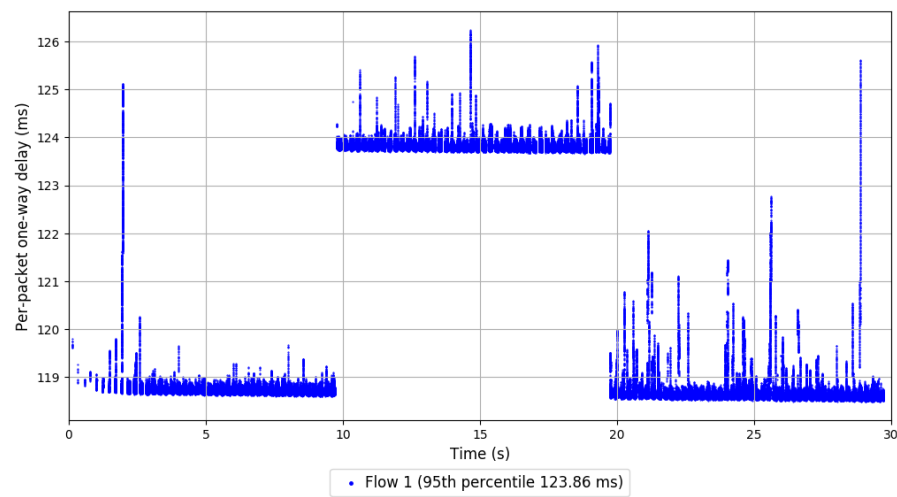
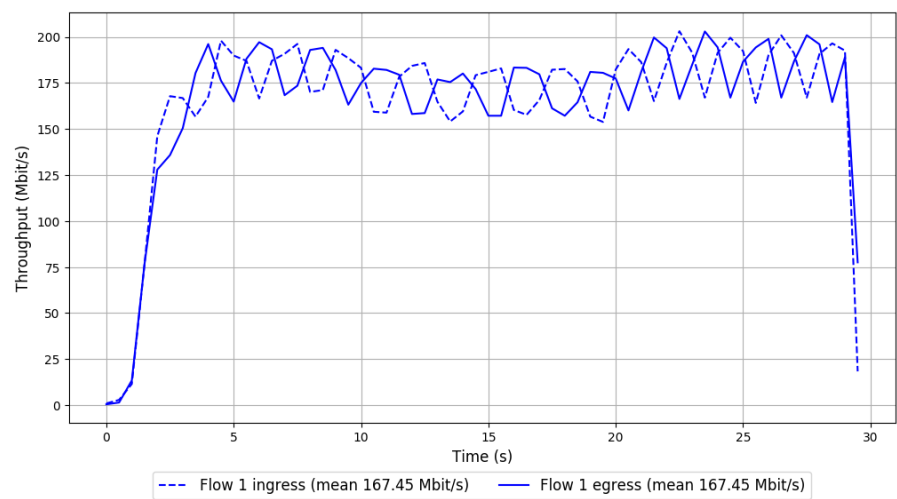
-- Flow 1:

Average throughput: 167.45 Mbit/s

95th percentile per-packet one-way delay: 123.856 ms

Loss rate: 0.00%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-01-02 01:31:04

End at: 2018-01-02 01:31:35

Below is generated by plot.py at 2018-01-02 03:38:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 171.55 Mbit/s

95th percentile per-packet one-way delay: 117.277 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 171.55 Mbit/s

95th percentile per-packet one-way delay: 117.277 ms

Loss rate: 0.00%

Run 10: Report of Indigo — Data Link

