

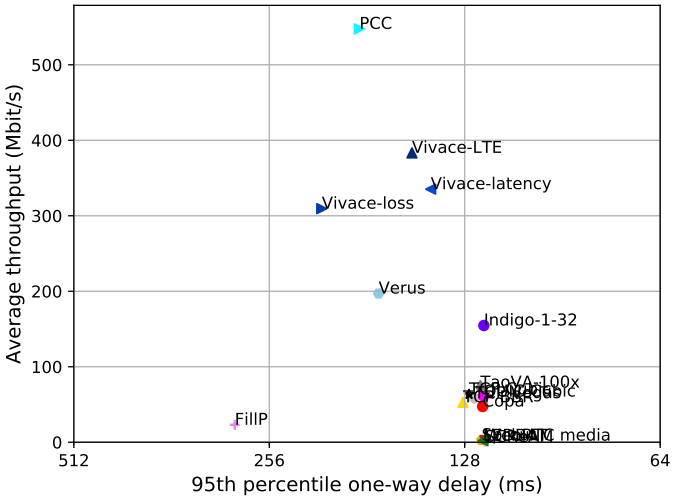
Pantheon Report

Generated at 2018-01-30 17:31:51 (UTC).
Data path: GCE London Ethernet (*local*) → GCE Tokyo Ethernet (*remote*).
Repeated the test of 17 congestion control schemes 10 times.
Each test lasted for 30 seconds running 1 flow.
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo_fast**).

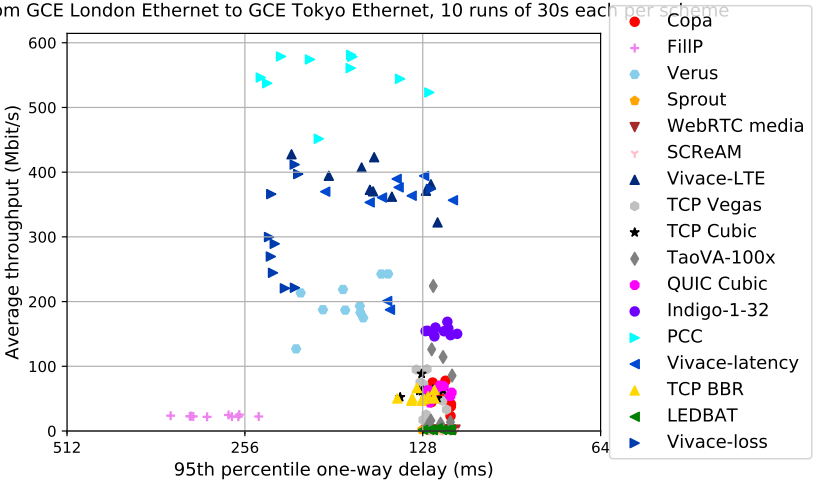
Git summary:

```
branch: master @ 70217998b3c9a7166a95460a70c0854d1326e100
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ fb9c9ab842e5614ad52911a76fb9bd1c1b0dca86
third_party/genericCC @ 80b516c448f795fd6e9675f7177b69c622f07da8
third_party/indigo @ a9b2060d39e4da2e8987e893e3eca2a6c7cd0ab9
third_party/indigo-1-layer-128-unit @ 3ae9e4ef4230db7484501f82ce8b377695f2f66d
third_party/indigo-1-layer-32-unit @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/indigo-1-layer-32-unit-no-calib @ 1f3a7f75b41135ed5b540c0fd3505939528e2a5f
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ fb1053193c2861da659ba9013db26744ccfcf993
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaeab30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/vivace @ 7a4ba531e75b4a6f66f5c4580192120401784ce3
third_party/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

test from GCE 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	52.89	128.76	0.06
TCP Cubic	10	63.45	126.05	0.04
LEDBAT	10	1.95	120.02	0.04
PCC	10	547.58	185.97	1.79
QUIC Cubic	10	60.54	119.75	0.01
SCReAM	10	0.22	119.26	0.00
WebRTC media	10	2.15	119.18	0.00
Sprout	10	2.68	120.55	0.04
TaoVA-100x	9	72.39	121.09	0.02
TCP Vegas	10	58.36	123.73	0.08
Verus	10	196.98	173.74	0.38
Copa	10	47.32	120.13	0.00
FillP	10	23.08	289.35	12.38
Indigo-1-32	10	154.64	119.60	0.01
Vivace-latency	10	335.26	144.44	0.14
Vivace-loss	10	309.40	212.49	1.58
Vivace-LTE	10	383.31	154.34	0.12

Run 1: Statistics of TCP BBR

Start at: 2018-01-30 13:33:56

End at: 2018-01-30 13:34:26

Below is generated by plot.py at 2018-01-30 16:41:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.52 Mbit/s

95th percentile per-packet one-way delay: 133.298 ms

Loss rate: 0.00%

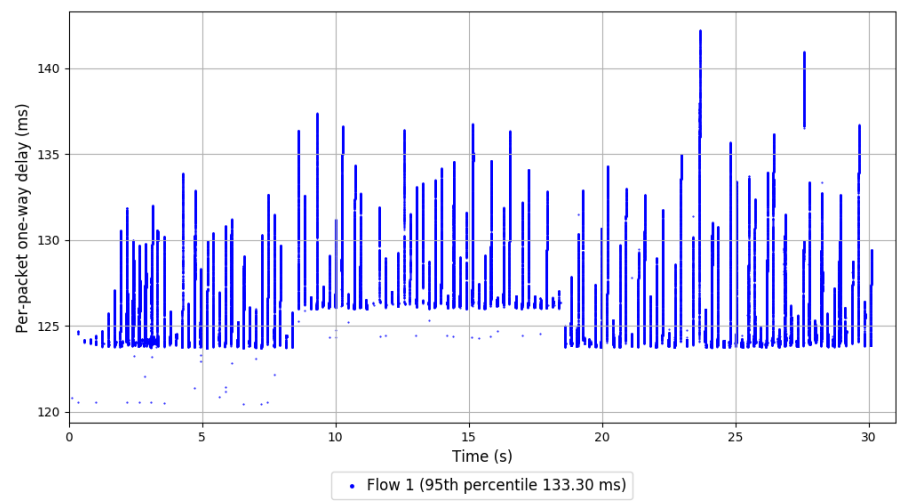
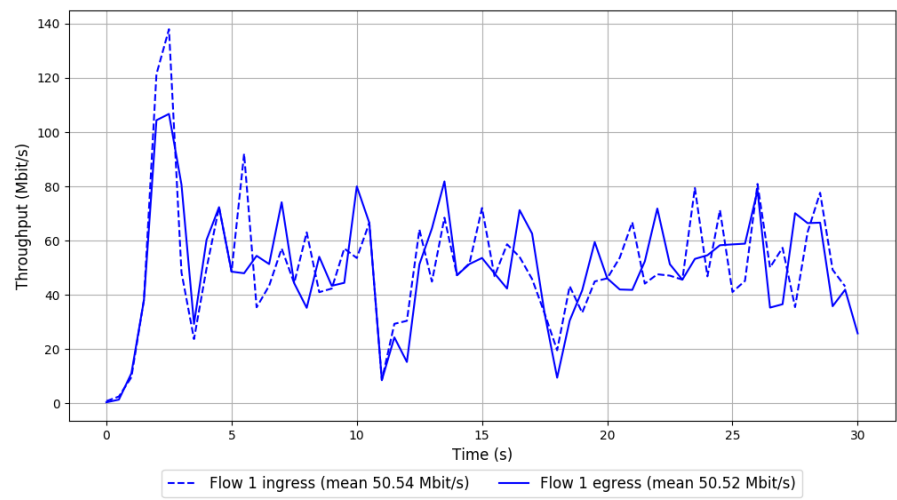
-- Flow 1:

Average throughput: 50.52 Mbit/s

95th percentile per-packet one-way delay: 133.298 ms

Loss rate: 0.00%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-01-30 13:48:27

End at: 2018-01-30 13:48:57

Below is generated by plot.py at 2018-01-30 16:41:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.30 Mbit/s

95th percentile per-packet one-way delay: 141.317 ms

Loss rate: 0.07%

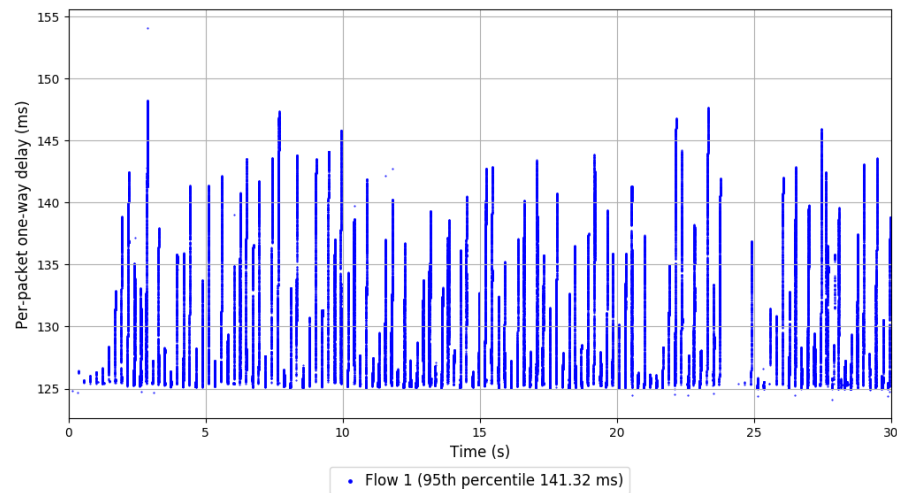
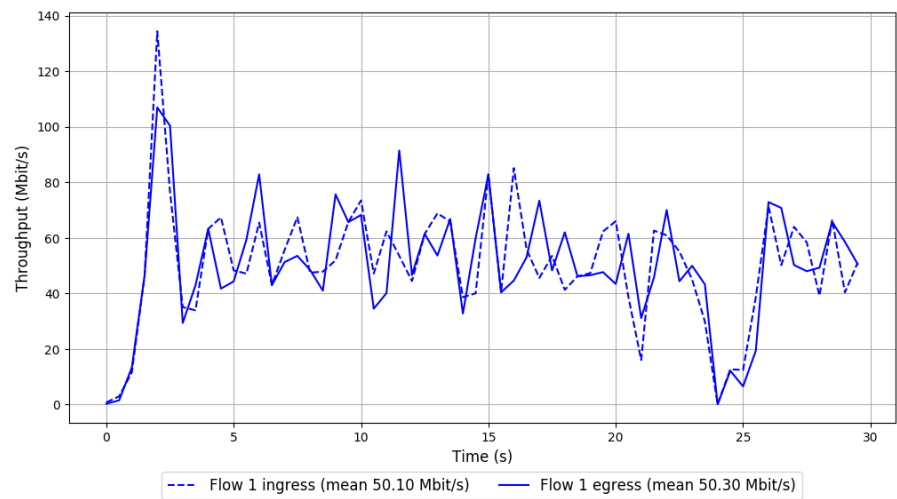
-- Flow 1:

Average throughput: 50.30 Mbit/s

95th percentile per-packet one-way delay: 141.317 ms

Loss rate: 0.07%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-01-30 14:03:14

End at: 2018-01-30 14:03:44

Below is generated by plot.py at 2018-01-30 16:41:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 66.41 Mbit/s

95th percentile per-packet one-way delay: 130.916 ms

Loss rate: 0.00%

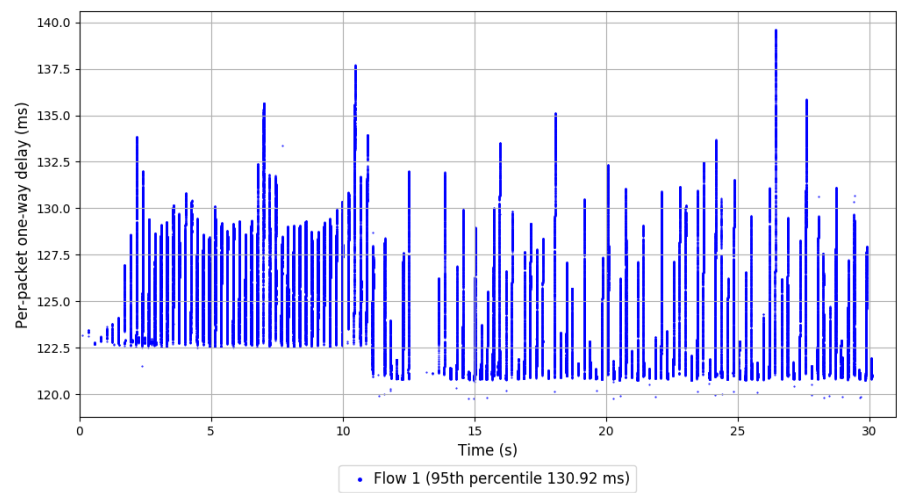
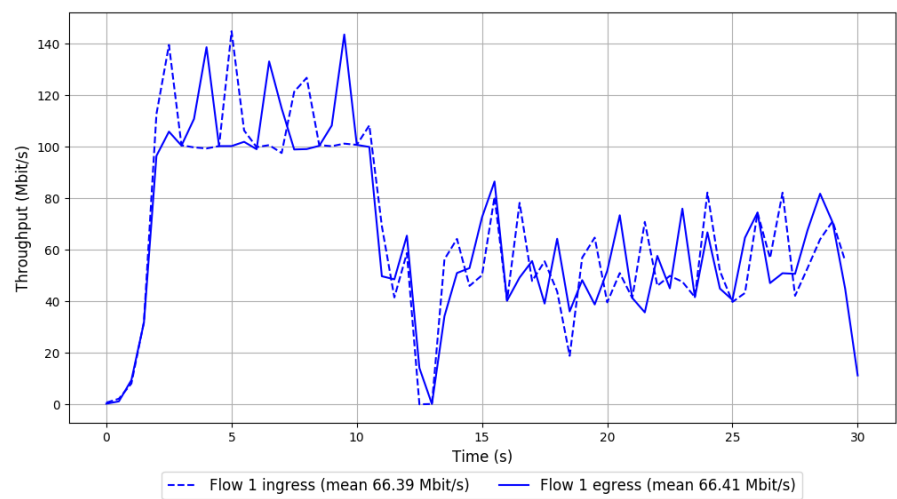
-- Flow 1:

Average throughput: 66.41 Mbit/s

95th percentile per-packet one-way delay: 130.916 ms

Loss rate: 0.00%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-01-30 14:18:33

End at: 2018-01-30 14:19:03

Below is generated by plot.py at 2018-01-30 16:41:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 46.92 Mbit/s

95th percentile per-packet one-way delay: 133.780 ms

Loss rate: 0.01%

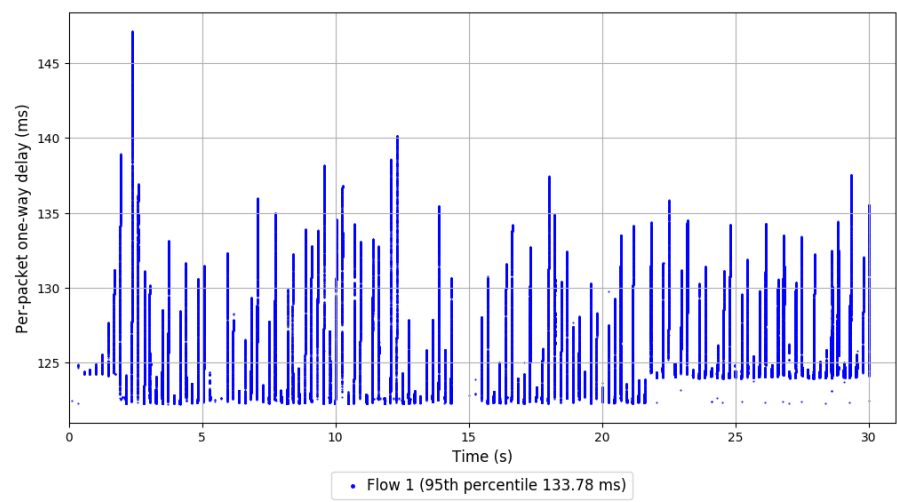
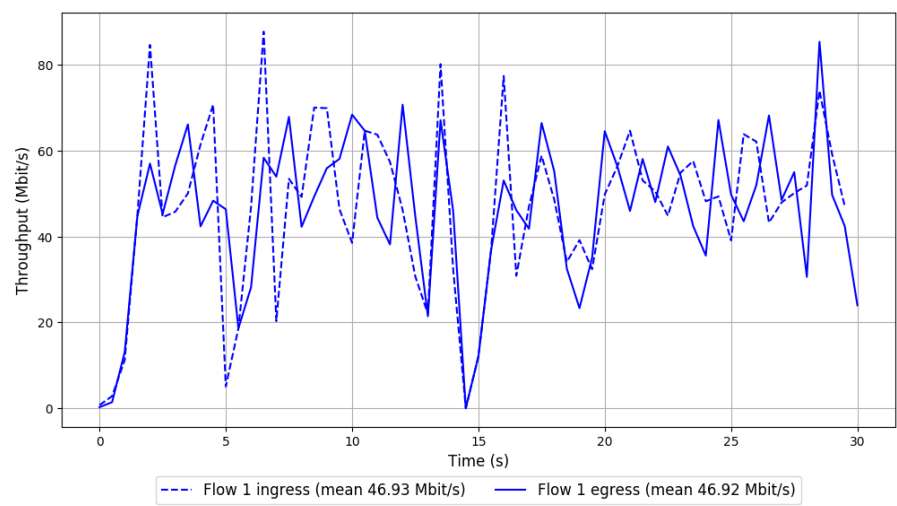
-- Flow 1:

Average throughput: 46.92 Mbit/s

95th percentile per-packet one-way delay: 133.780 ms

Loss rate: 0.01%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-01-30 14:33:38

End at: 2018-01-30 14:34:08

Below is generated by plot.py at 2018-01-30 16:41:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 46.79 Mbit/s

95th percentile per-packet one-way delay: 128.558 ms

Loss rate: 0.00%

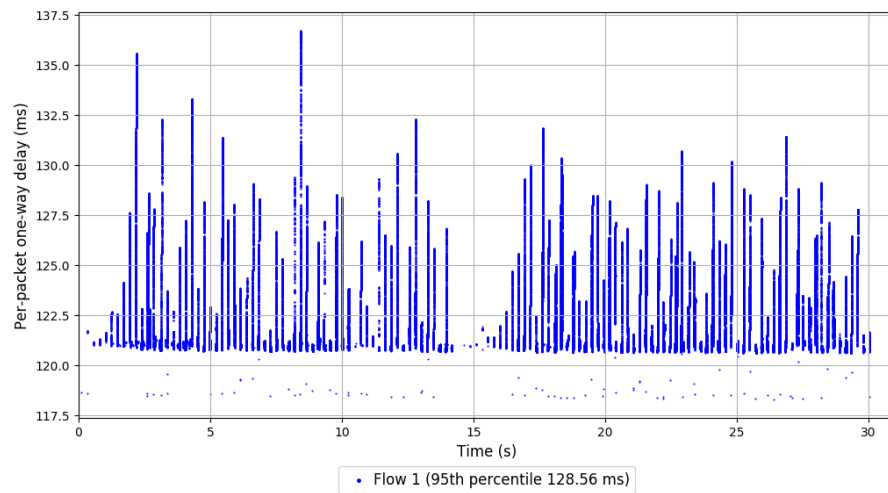
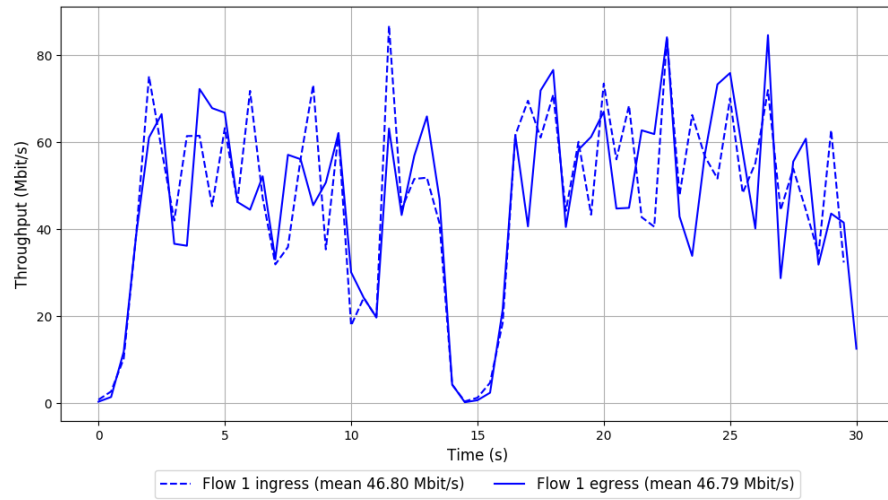
-- Flow 1:

Average throughput: 46.79 Mbit/s

95th percentile per-packet one-way delay: 128.558 ms

Loss rate: 0.00%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-01-30 14:48:46

End at: 2018-01-30 14:49:16

Below is generated by plot.py at 2018-01-30 16:41:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 53.93 Mbit/s

95th percentile per-packet one-way delay: 125.344 ms

Loss rate: 0.00%

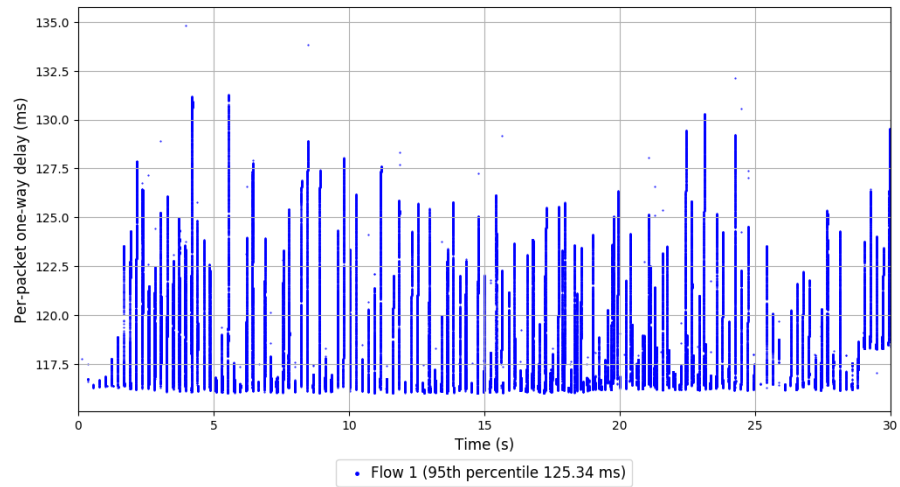
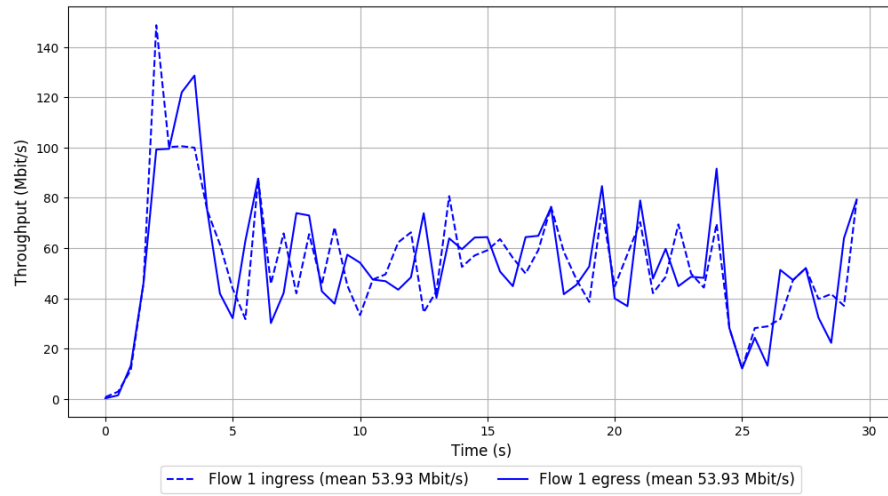
-- Flow 1:

Average throughput: 53.93 Mbit/s

95th percentile per-packet one-way delay: 125.344 ms

Loss rate: 0.00%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-01-30 15:04:07

End at: 2018-01-30 15:04:37

Below is generated by plot.py at 2018-01-30 16:41:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 49.14 Mbit/s

95th percentile per-packet one-way delay: 127.228 ms

Loss rate: 0.00%

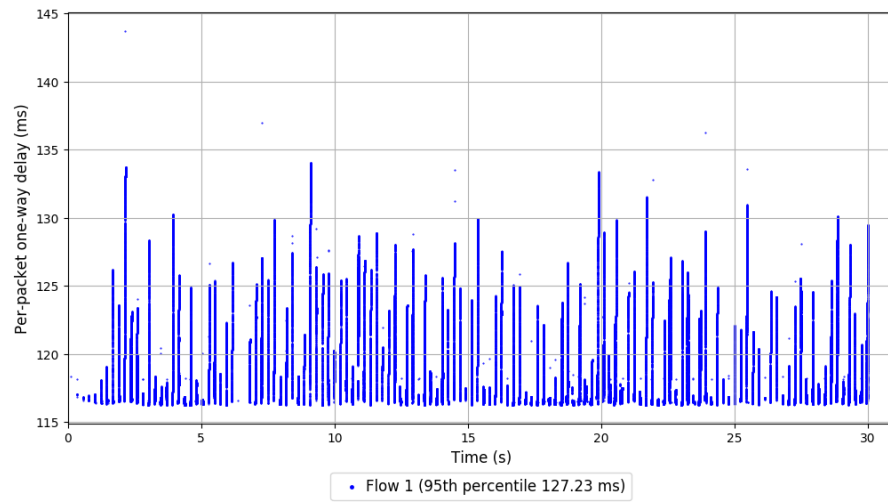
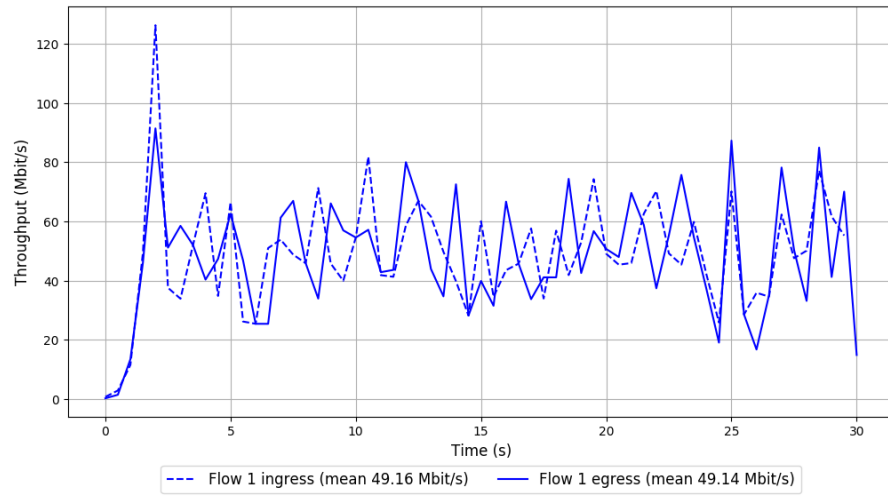
-- Flow 1:

Average throughput: 49.14 Mbit/s

95th percentile per-packet one-way delay: 127.228 ms

Loss rate: 0.00%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-01-30 15:18:47

End at: 2018-01-30 15:19:17

Below is generated by plot.py at 2018-01-30 16:41:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.77 Mbit/s

95th percentile per-packet one-way delay: 122.389 ms

Loss rate: 0.00%

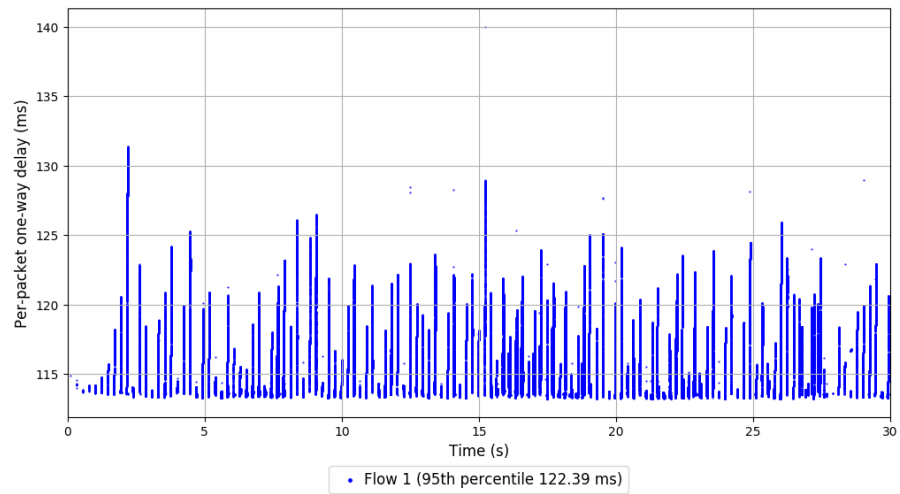
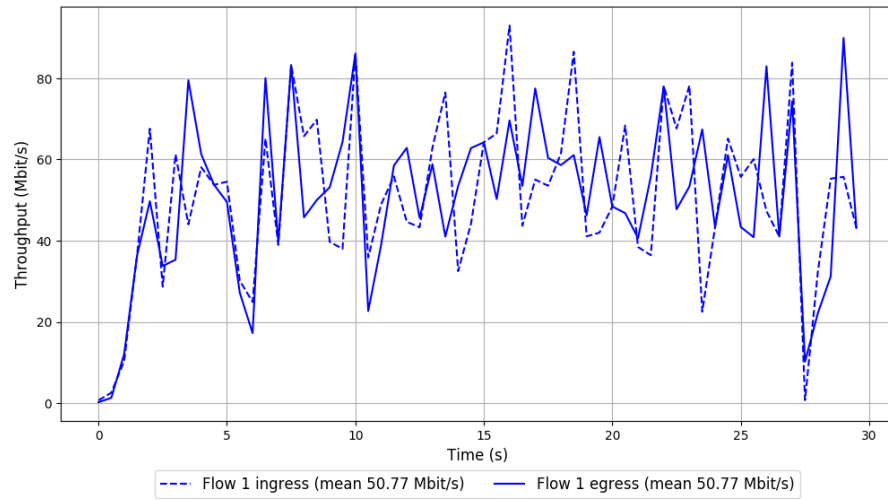
-- Flow 1:

Average throughput: 50.77 Mbit/s

95th percentile per-packet one-way delay: 122.389 ms

Loss rate: 0.00%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-01-30 15:33:19

End at: 2018-01-30 15:33:49

Below is generated by plot.py at 2018-01-30 16:41:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.65 Mbit/s

95th percentile per-packet one-way delay: 122.470 ms

Loss rate: 0.05%

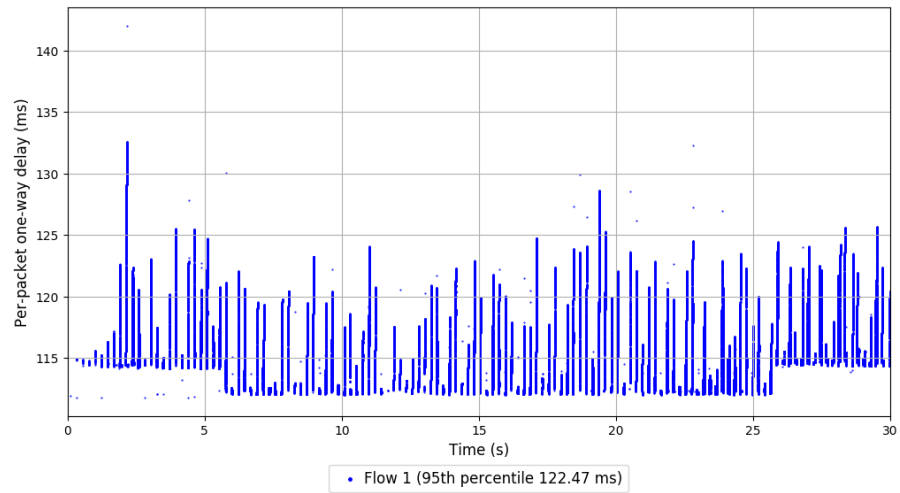
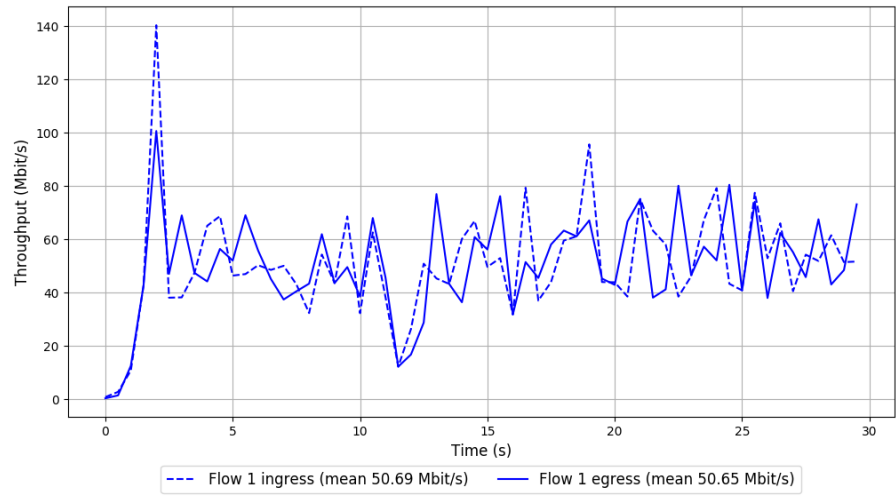
-- Flow 1:

Average throughput: 50.65 Mbit/s

95th percentile per-packet one-way delay: 122.470 ms

Loss rate: 0.05%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-01-30 15:47:53

End at: 2018-01-30 15:48:23

Below is generated by plot.py at 2018-01-30 16:42:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.47 Mbit/s

95th percentile per-packet one-way delay: 122.302 ms

Loss rate: 0.50%

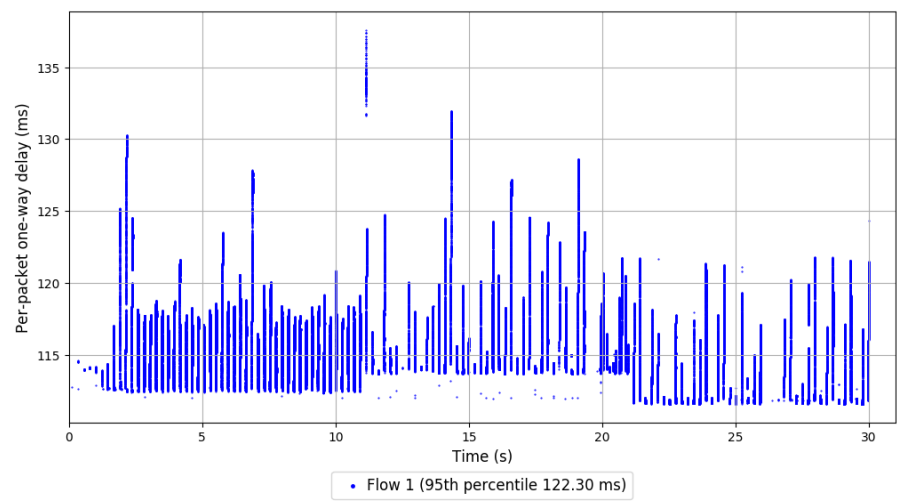
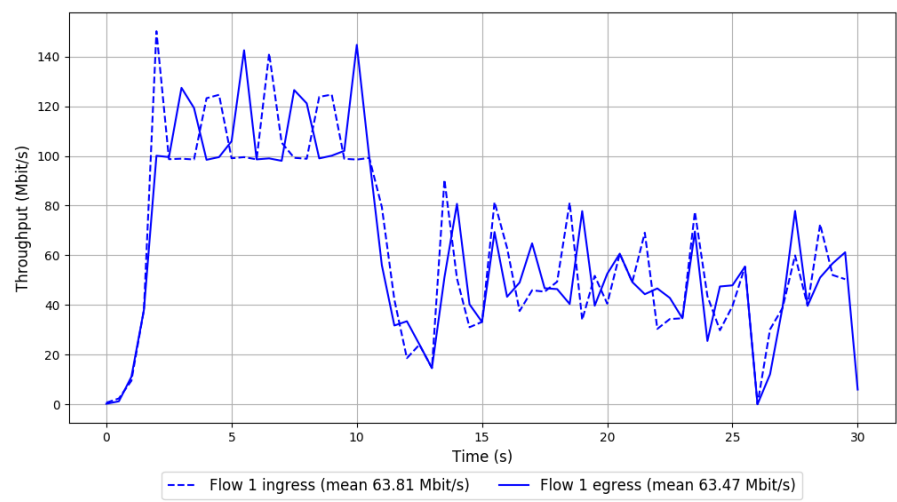
-- Flow 1:

Average throughput: 63.47 Mbit/s

95th percentile per-packet one-way delay: 122.302 ms

Loss rate: 0.50%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-01-30 13:29:00

End at: 2018-01-30 13:29:30

Below is generated by plot.py at 2018-01-30 16:42:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 62.21 Mbit/s

95th percentile per-packet one-way delay: 127.594 ms

Loss rate: 0.01%

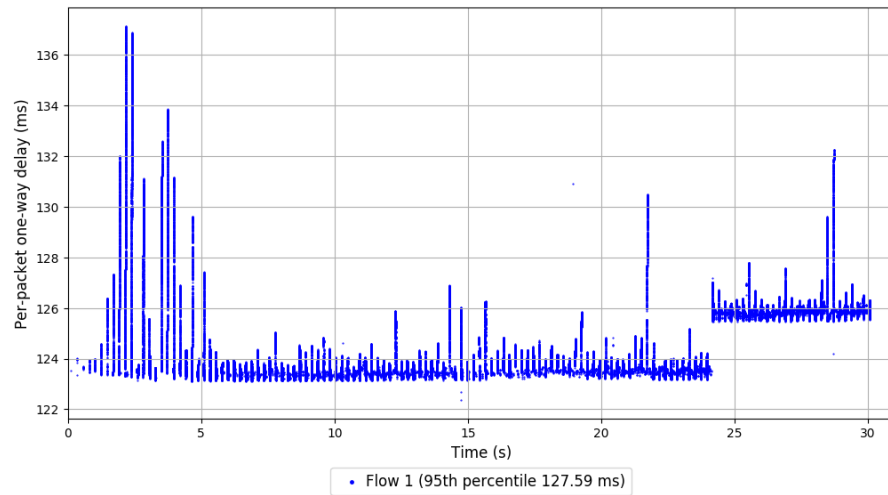
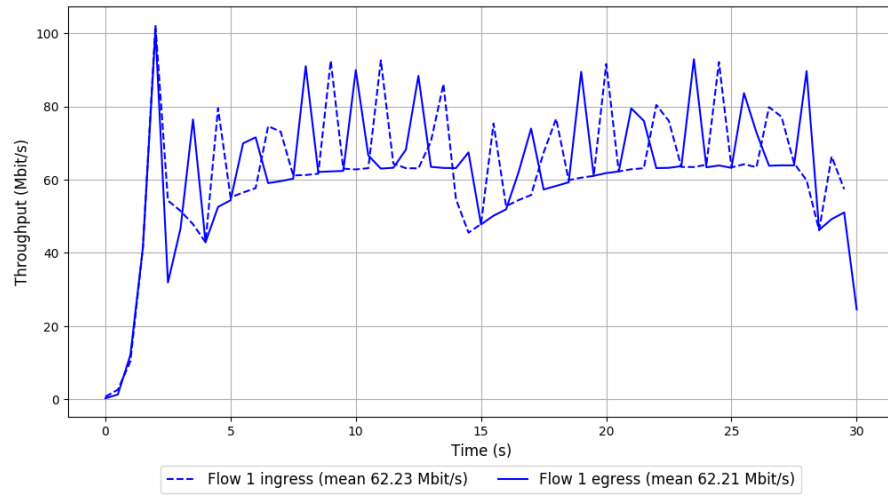
-- Flow 1:

Average throughput: 62.21 Mbit/s

95th percentile per-packet one-way delay: 127.594 ms

Loss rate: 0.01%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-01-30 13:43:38

End at: 2018-01-30 13:44:08

Below is generated by plot.py at 2018-01-30 16:42:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 52.28 Mbit/s

95th percentile per-packet one-way delay: 139.757 ms

Loss rate: 0.01%

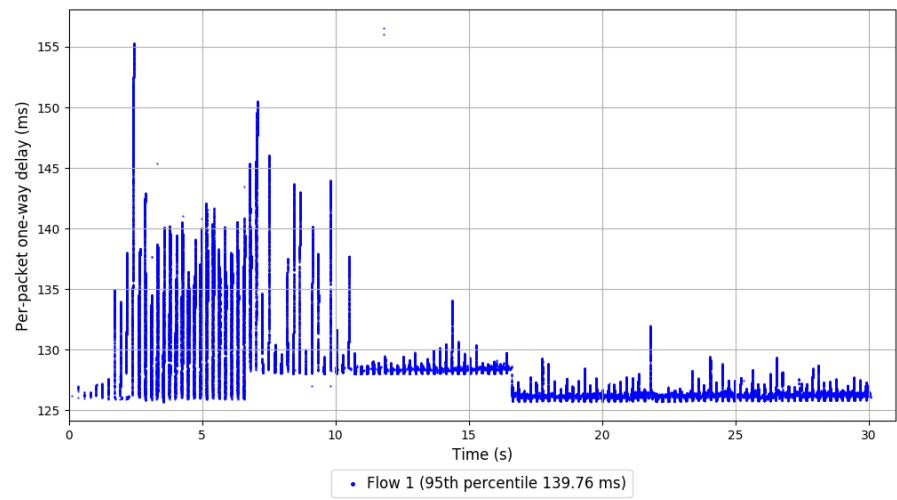
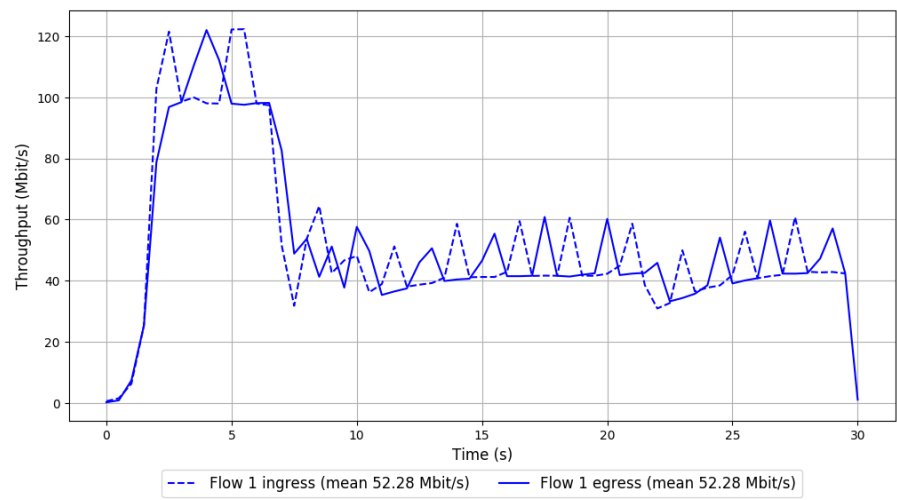
-- Flow 1:

Average throughput: 52.28 Mbit/s

95th percentile per-packet one-way delay: 139.757 ms

Loss rate: 0.01%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-01-30 13:58:05

End at: 2018-01-30 13:58:35

Below is generated by plot.py at 2018-01-30 16:42:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.38 Mbit/s

95th percentile per-packet one-way delay: 128.567 ms

Loss rate: 0.00%

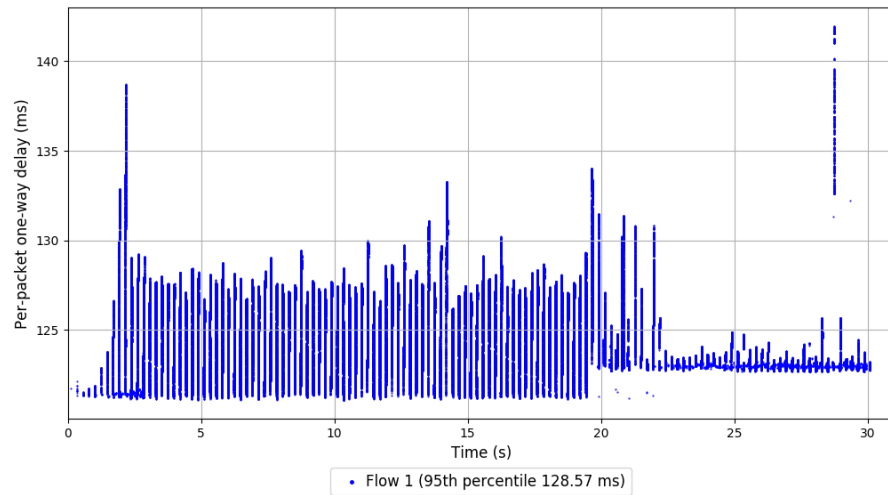
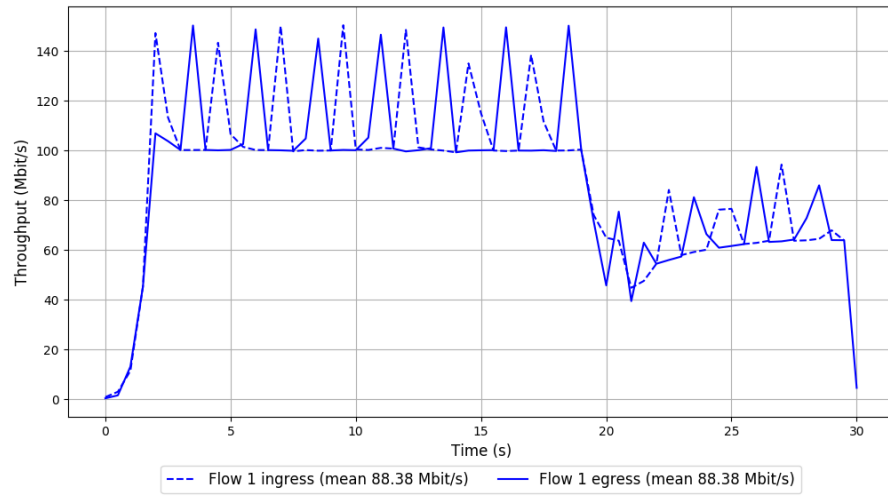
-- Flow 1:

Average throughput: 88.38 Mbit/s

95th percentile per-packet one-way delay: 128.567 ms

Loss rate: 0.00%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-01-30 14:13:26

End at: 2018-01-30 14:13:56

Below is generated by plot.py at 2018-01-30 16:42:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 61.96 Mbit/s

95th percentile per-packet one-way delay: 129.709 ms

Loss rate: 0.01%

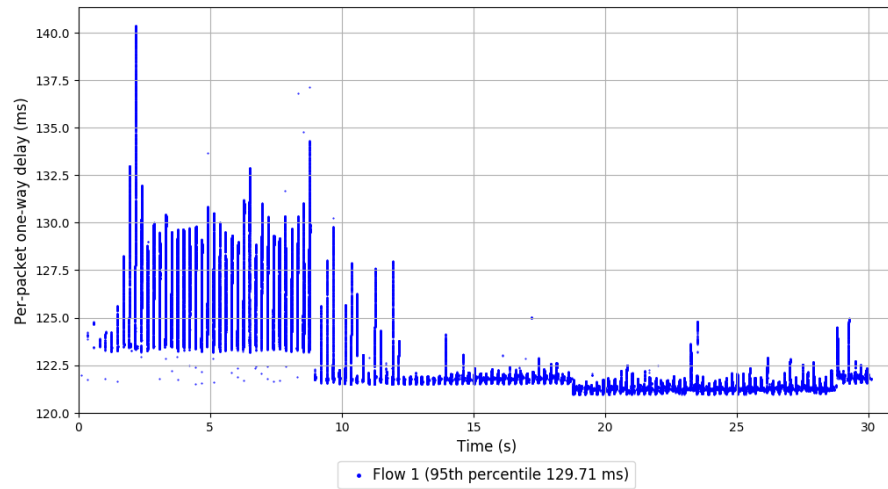
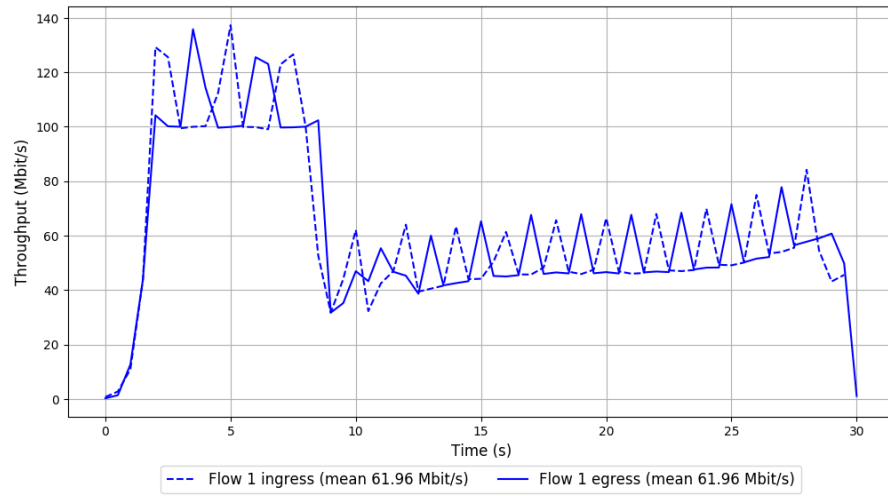
-- Flow 1:

Average throughput: 61.96 Mbit/s

95th percentile per-packet one-way delay: 129.709 ms

Loss rate: 0.01%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-01-30 14:28:31

End at: 2018-01-30 14:29:01

Below is generated by plot.py at 2018-01-30 16:42:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 61.55 Mbit/s

95th percentile per-packet one-way delay: 128.379 ms

Loss rate: 0.00%

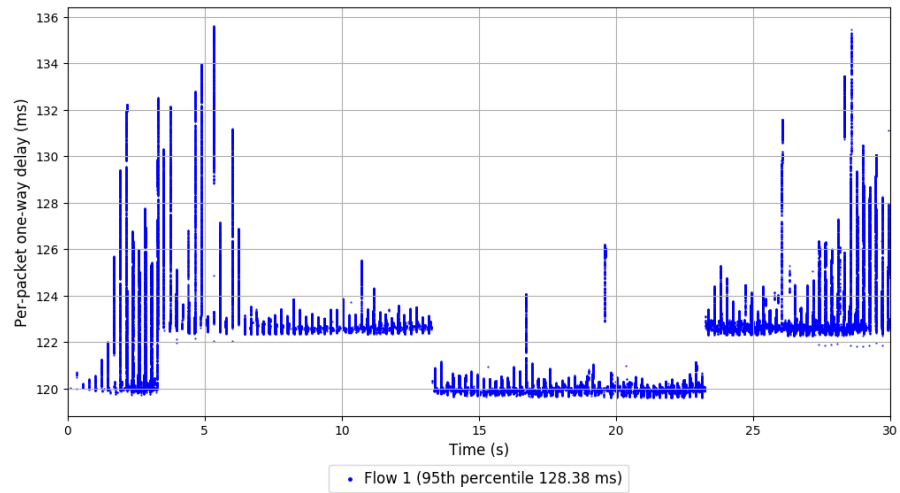
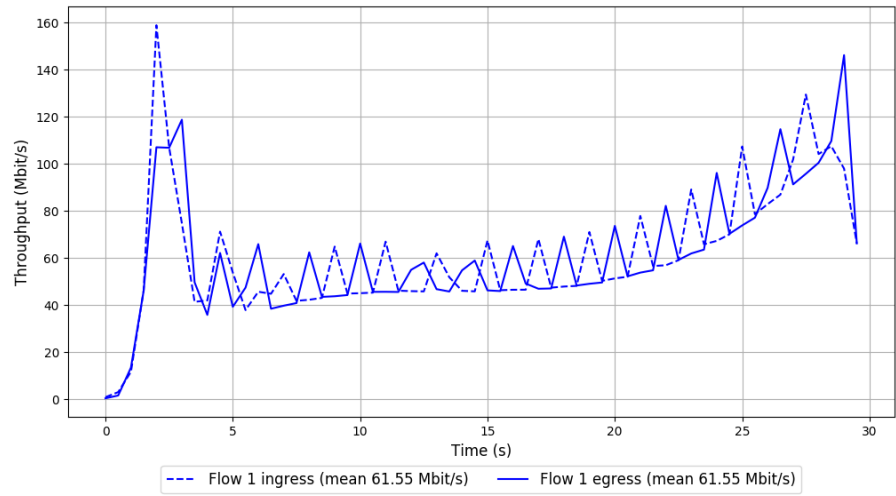
-- Flow 1:

Average throughput: 61.55 Mbit/s

95th percentile per-packet one-way delay: 128.379 ms

Loss rate: 0.00%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-01-30 14:43:37

End at: 2018-01-30 14:44:07

Below is generated by plot.py at 2018-01-30 16:42:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 61.00 Mbit/s

95th percentile per-packet one-way delay: 125.516 ms

Loss rate: 0.00%

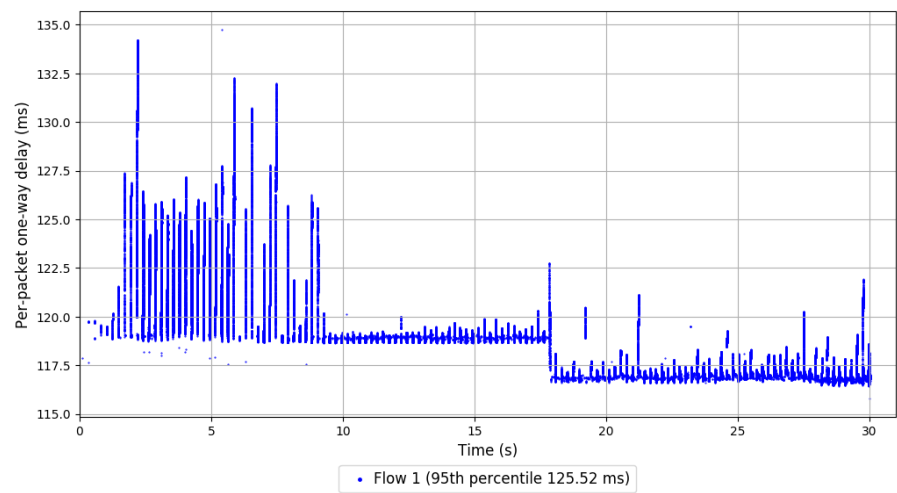
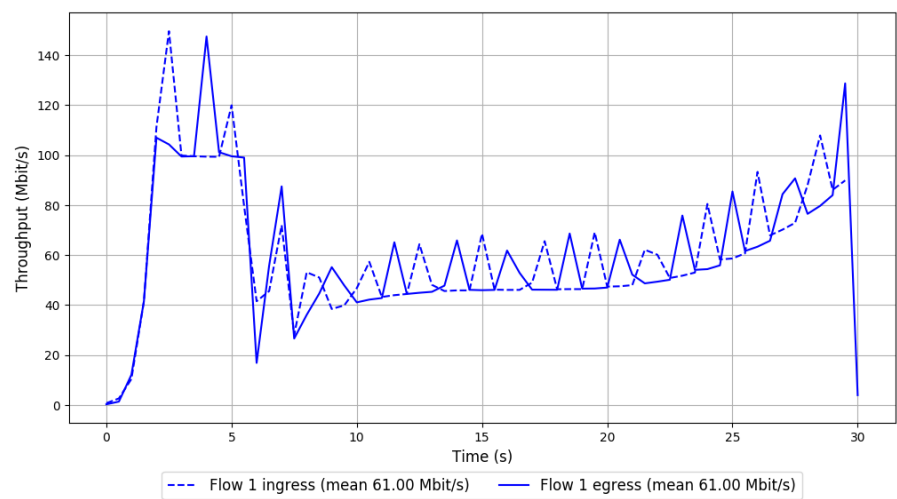
-- Flow 1:

Average throughput: 61.00 Mbit/s

95th percentile per-packet one-way delay: 125.516 ms

Loss rate: 0.00%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-01-30 14:58:55

End at: 2018-01-30 14:59:25

Below is generated by plot.py at 2018-01-30 16:43:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.16 Mbit/s

95th percentile per-packet one-way delay: 122.944 ms

Loss rate: 0.00%

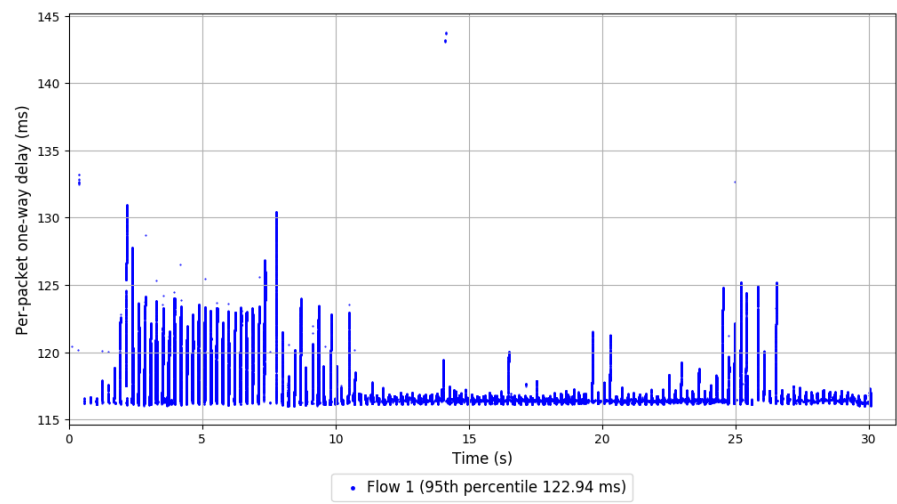
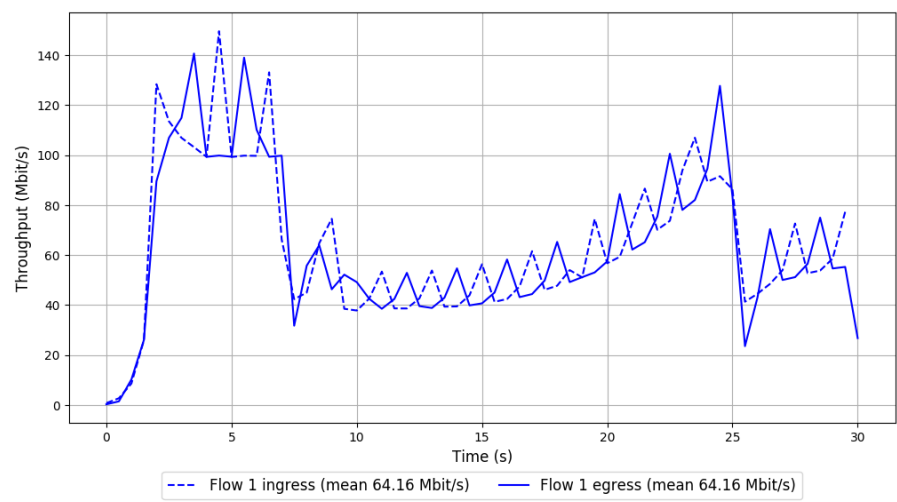
-- Flow 1:

Average throughput: 64.16 Mbit/s

95th percentile per-packet one-way delay: 122.944 ms

Loss rate: 0.00%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-01-30 15:13:39

End at: 2018-01-30 15:14:09

Below is generated by plot.py at 2018-01-30 16:43:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.49 Mbit/s

95th percentile per-packet one-way delay: 118.906 ms

Loss rate: 0.02%

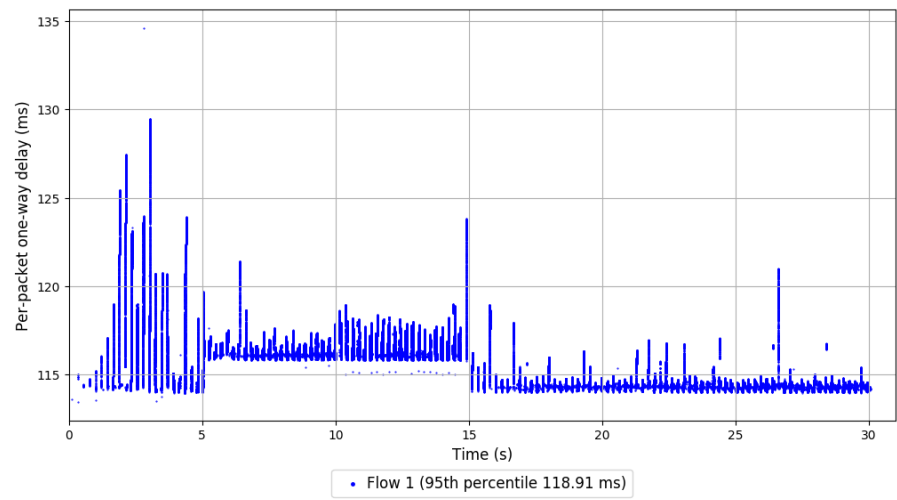
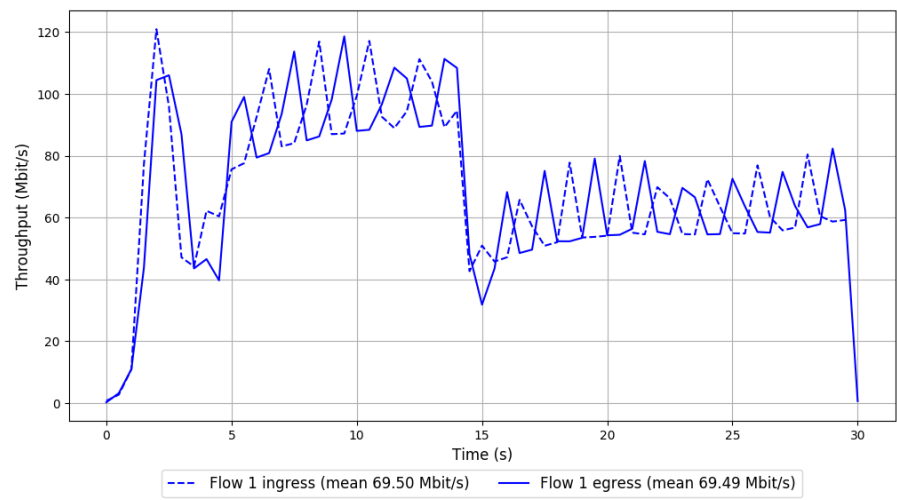
-- Flow 1:

Average throughput: 69.49 Mbit/s

95th percentile per-packet one-way delay: 118.906 ms

Loss rate: 0.02%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-01-30 15:28:14

End at: 2018-01-30 15:28:44

Below is generated by plot.py at 2018-01-30 16:43:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 62.67 Mbit/s

95th percentile per-packet one-way delay: 118.274 ms

Loss rate: 0.00%

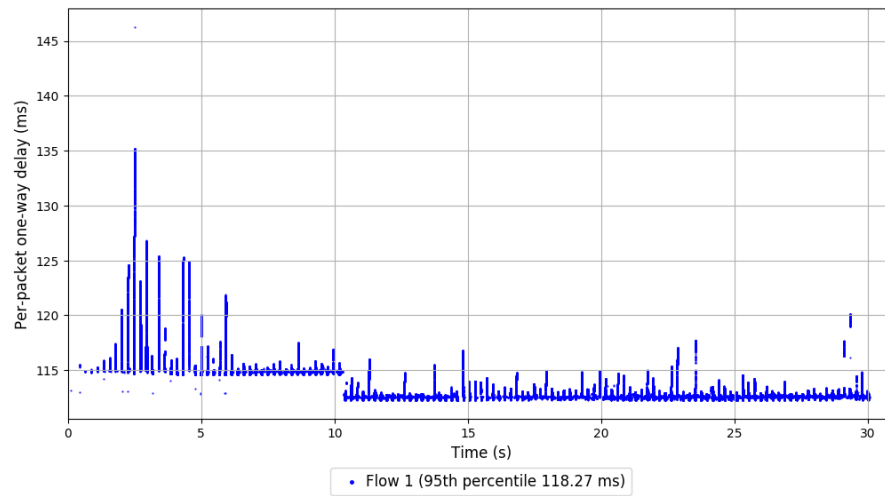
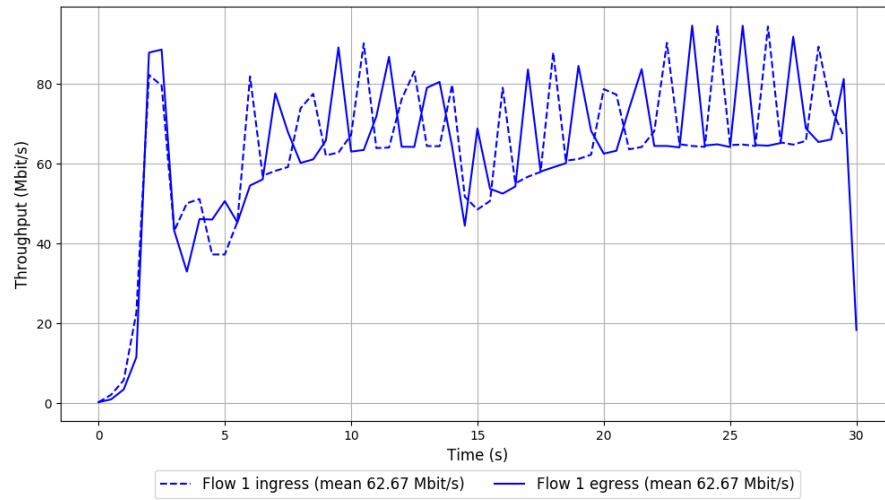
-- Flow 1:

Average throughput: 62.67 Mbit/s

95th percentile per-packet one-way delay: 118.274 ms

Loss rate: 0.00%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-01-30 15:42:49

End at: 2018-01-30 15:43:19

Below is generated by plot.py at 2018-01-30 16:43:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.77 Mbit/s

95th percentile per-packet one-way delay: 120.884 ms

Loss rate: 0.33%

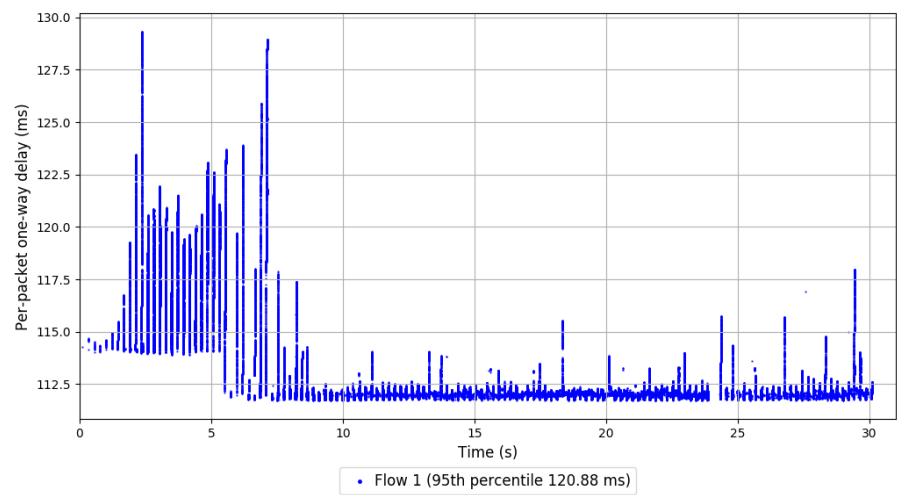
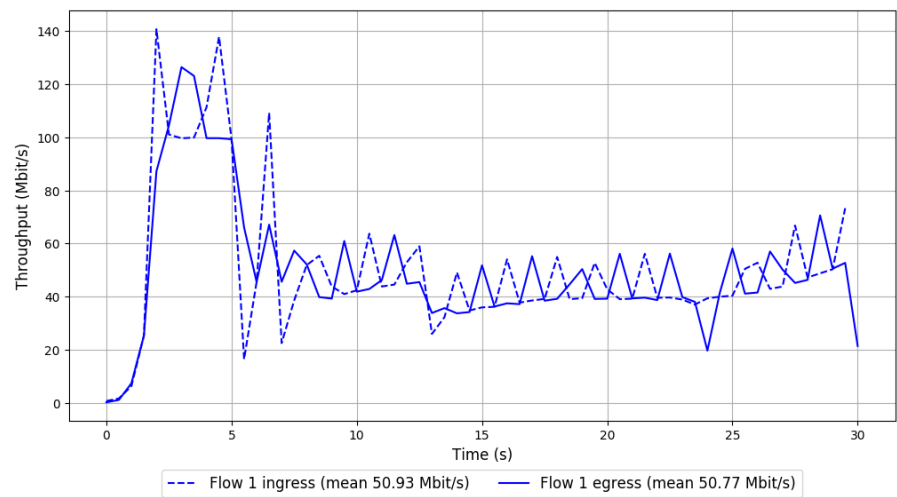
-- Flow 1:

Average throughput: 50.77 Mbit/s

95th percentile per-packet one-way delay: 120.884 ms

Loss rate: 0.33%

Run 10: Report of TCP Cubic — Data Link

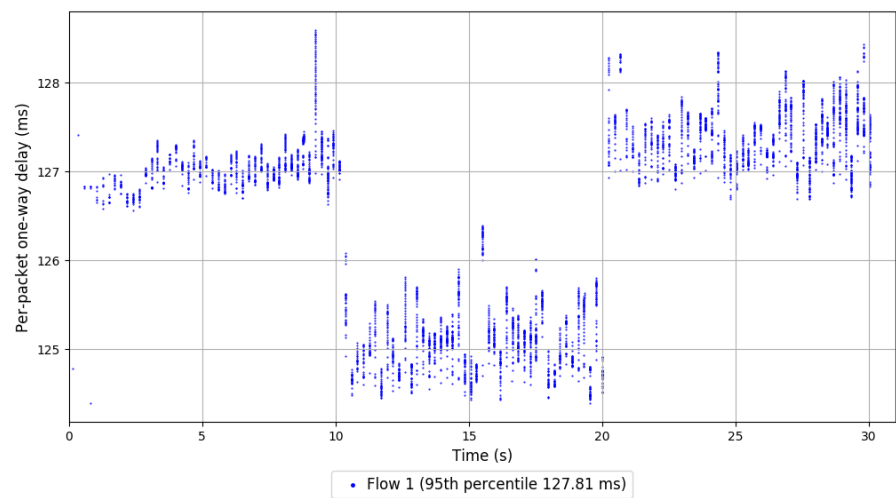
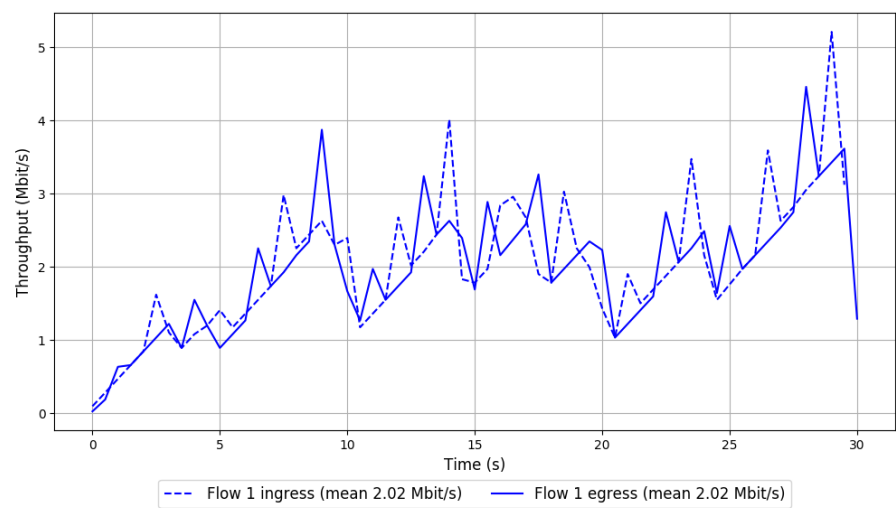


```
Run 1: Statistics of LEDBAT

Start at: 2018-01-30 13:37:14
End at: 2018-01-30 13:37:44

# Below is generated by plot.py at 2018-01-30 16:43:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.02 Mbit/s
95th percentile per-packet one-way delay: 127.810 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 2.02 Mbit/s
95th percentile per-packet one-way delay: 127.810 ms
Loss rate: 0.02%
```

Run 1: Report of LEDBAT — Data Link

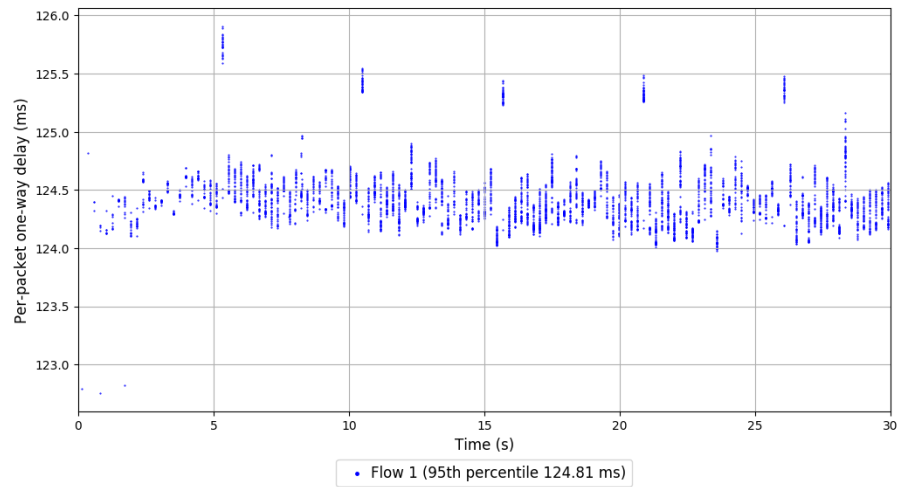
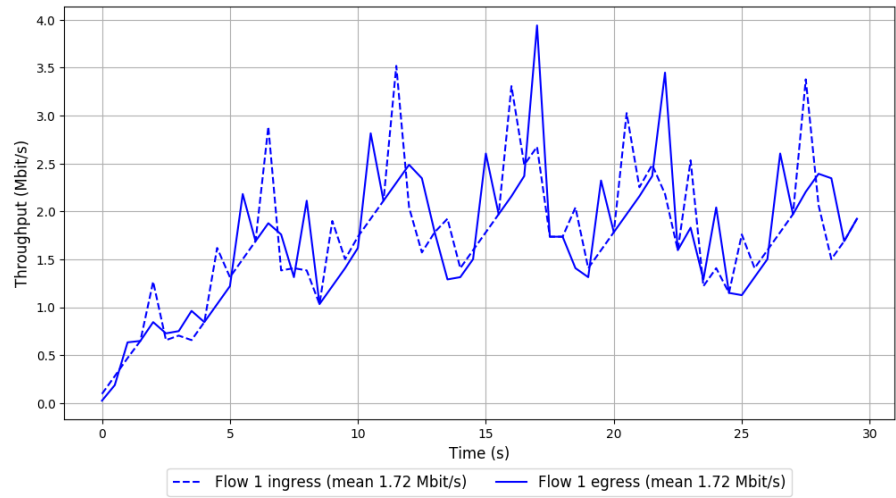


```
Run 2: Statistics of LEDBAT

Start at: 2018-01-30 13:51:42
End at: 2018-01-30 13:52:12

# Below is generated by plot.py at 2018-01-30 16:43:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.72 Mbit/s
95th percentile per-packet one-way delay: 124.809 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.72 Mbit/s
95th percentile per-packet one-way delay: 124.809 ms
Loss rate: 0.00%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-01-30 14:06:40

End at: 2018-01-30 14:07:10

Below is generated by plot.py at 2018-01-30 16:43:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.95 Mbit/s

95th percentile per-packet one-way delay: 123.112 ms

Loss rate: 0.00%

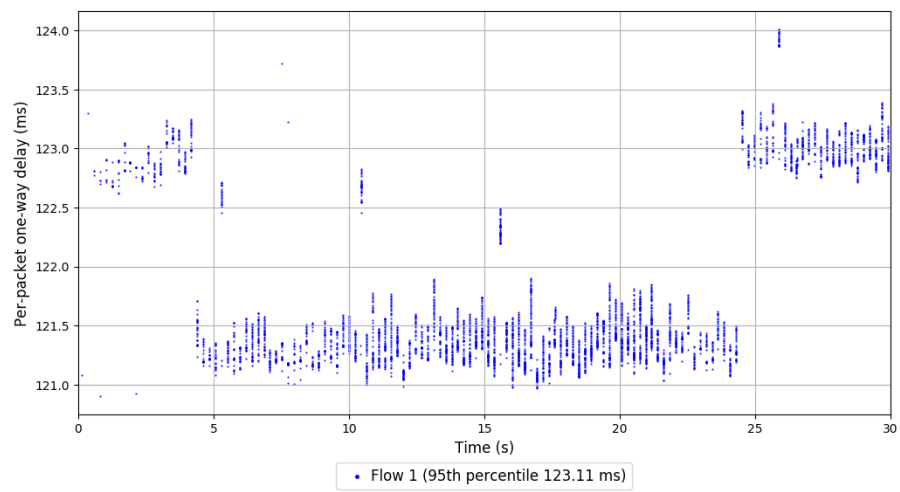
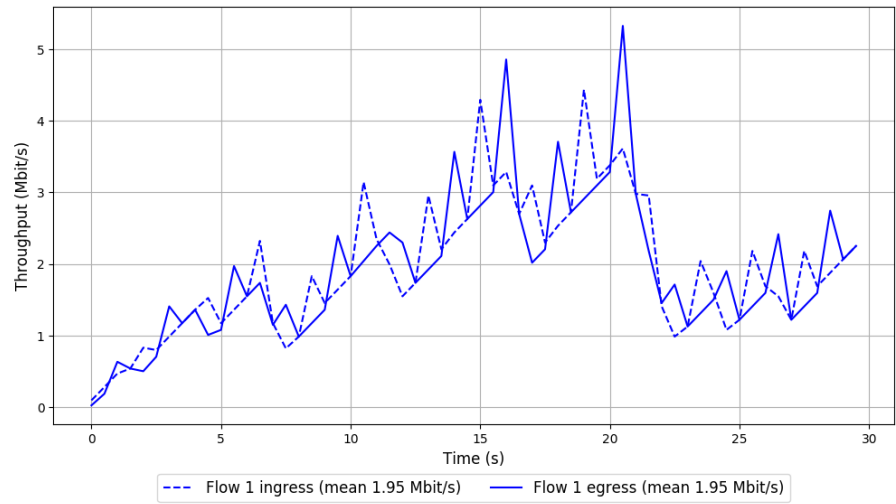
-- Flow 1:

Average throughput: 1.95 Mbit/s

95th percentile per-packet one-way delay: 123.112 ms

Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-01-30 14:21:59

End at: 2018-01-30 14:22:29

Below is generated by plot.py at 2018-01-30 16:43:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.40 Mbit/s

95th percentile per-packet one-way delay: 123.008 ms

Loss rate: 0.17%

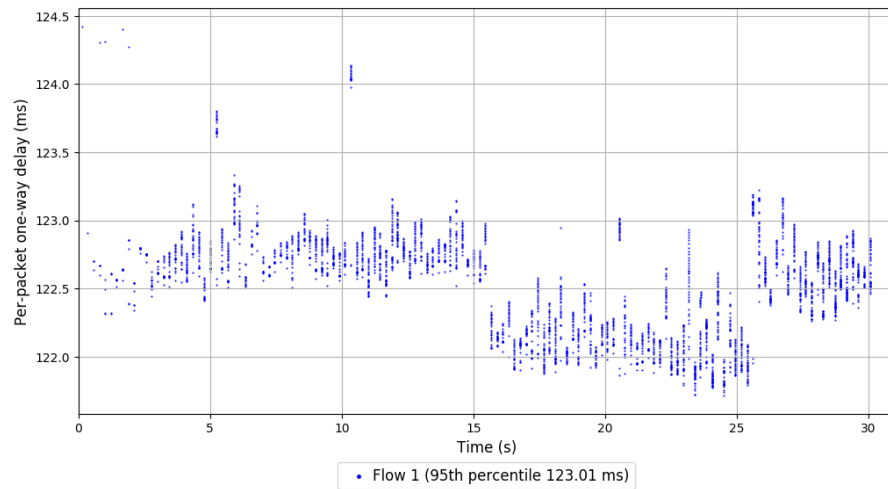
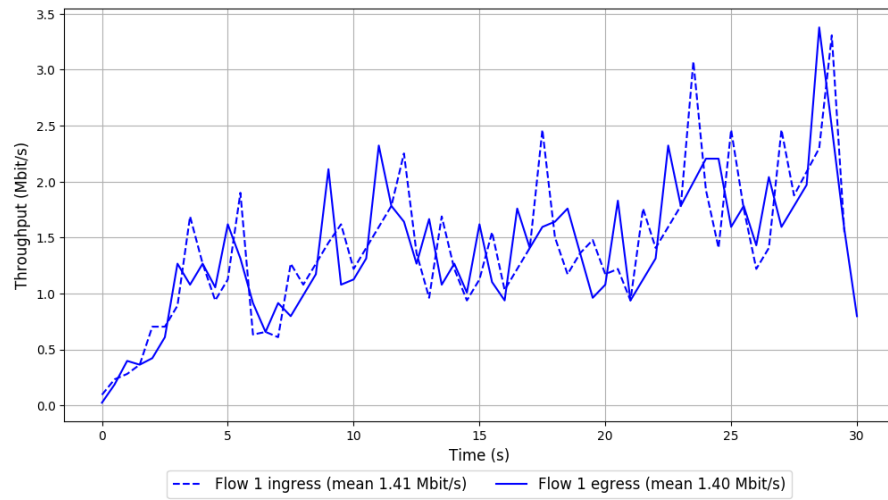
-- Flow 1:

Average throughput: 1.40 Mbit/s

95th percentile per-packet one-way delay: 123.008 ms

Loss rate: 0.17%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-01-30 14:37:07

End at: 2018-01-30 14:37:37

Below is generated by plot.py at 2018-01-30 16:43:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.42 Mbit/s

95th percentile per-packet one-way delay: 120.769 ms

Loss rate: 0.00%

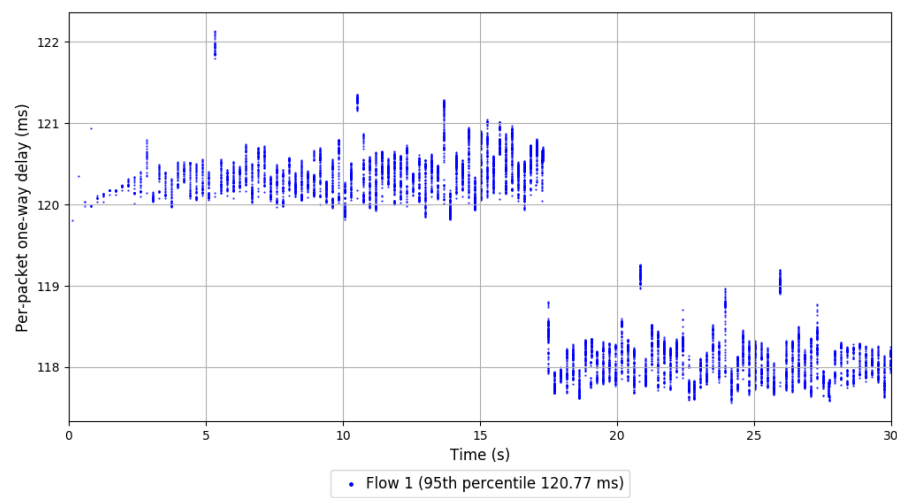
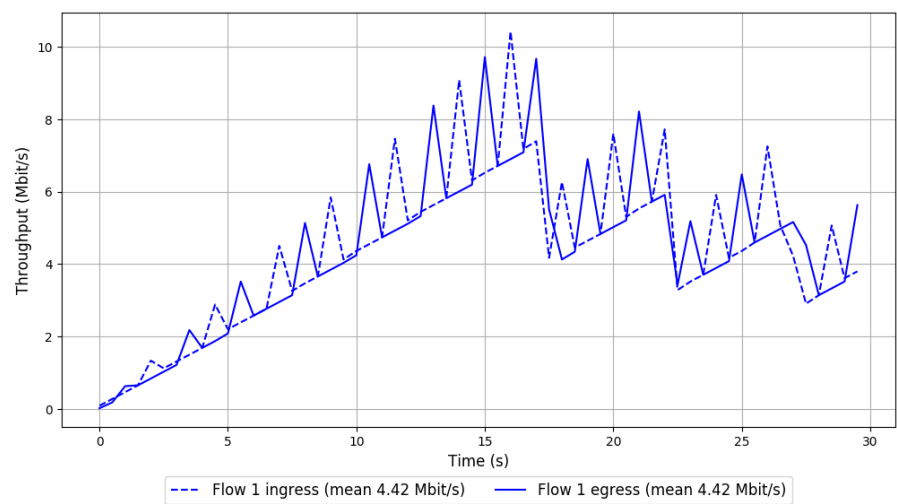
-- Flow 1:

Average throughput: 4.42 Mbit/s

95th percentile per-packet one-way delay: 120.769 ms

Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-01-30 14:52:17

End at: 2018-01-30 14:52:47

Below is generated by plot.py at 2018-01-30 16:43:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.56 Mbit/s

95th percentile per-packet one-way delay: 118.780 ms

Loss rate: 0.08%

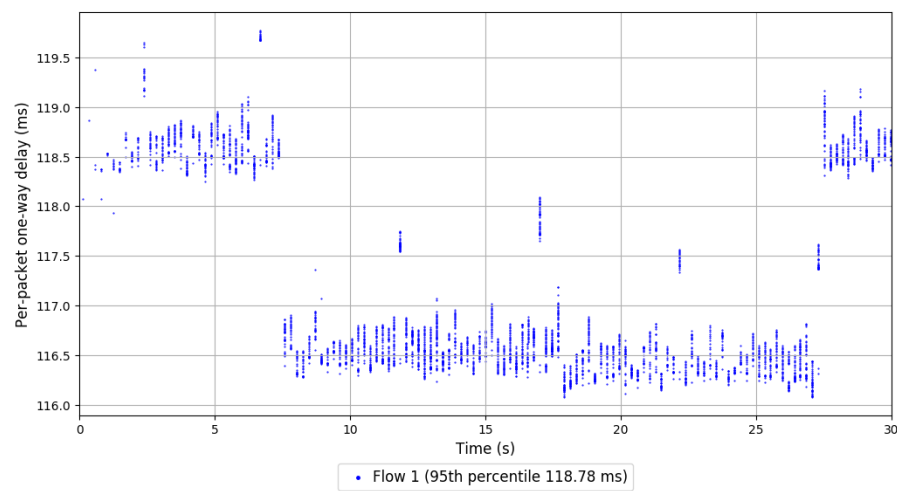
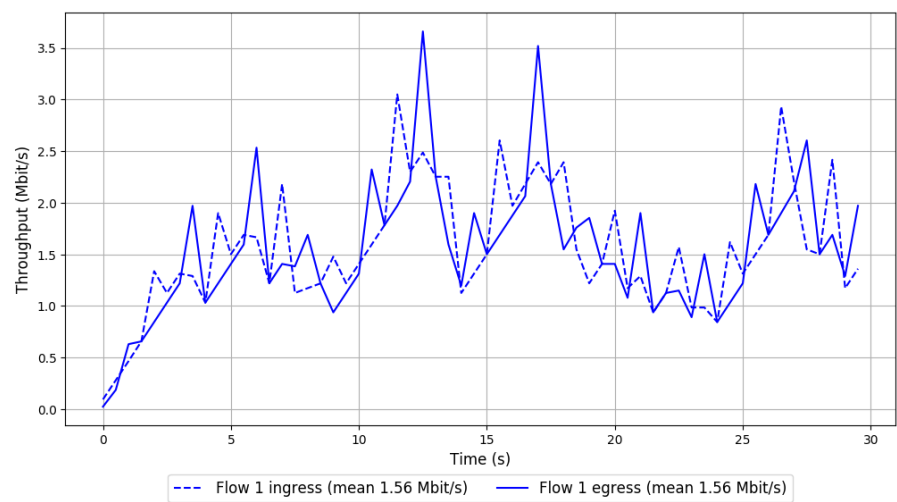
-- Flow 1:

Average throughput: 1.56 Mbit/s

95th percentile per-packet one-way delay: 118.780 ms

Loss rate: 0.08%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-01-30 15:07:18

End at: 2018-01-30 15:07:48

Below is generated by plot.py at 2018-01-30 16:43:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.59 Mbit/s

95th percentile per-packet one-way delay: 116.593 ms

Loss rate: 0.03%

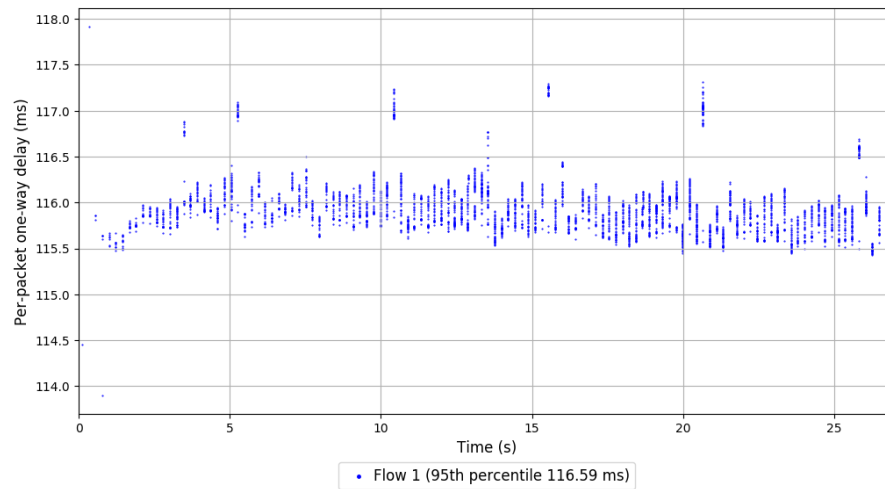
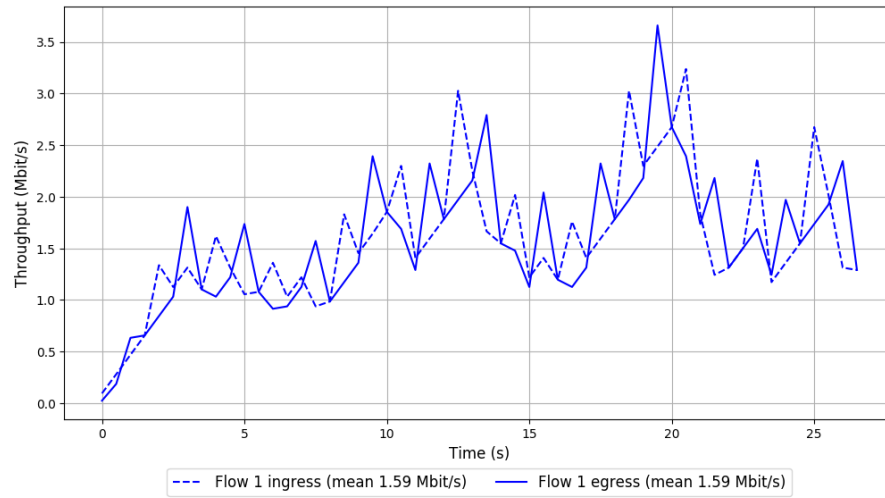
-- Flow 1:

Average throughput: 1.59 Mbit/s

95th percentile per-packet one-way delay: 116.593 ms

Loss rate: 0.03%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-01-30 15:21:52

End at: 2018-01-30 15:22:22

Below is generated by plot.py at 2018-01-30 16:43:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.56 Mbit/s

95th percentile per-packet one-way delay: 115.690 ms

Loss rate: 0.00%

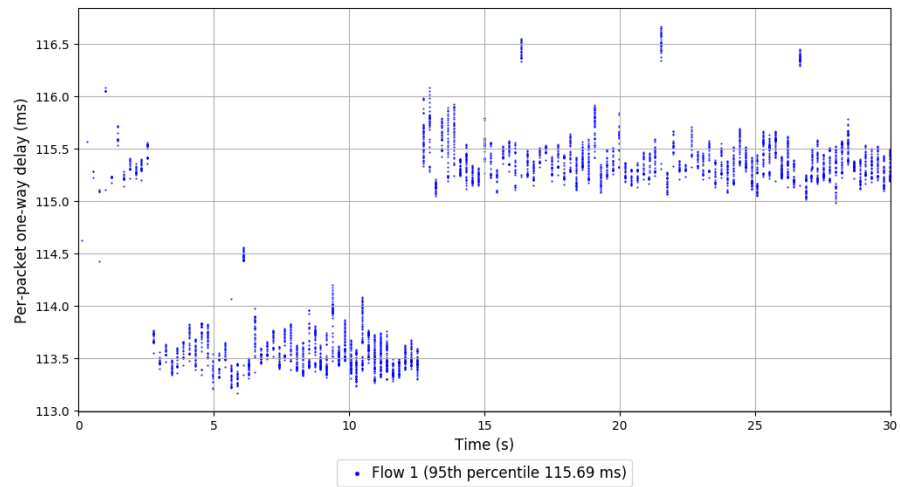
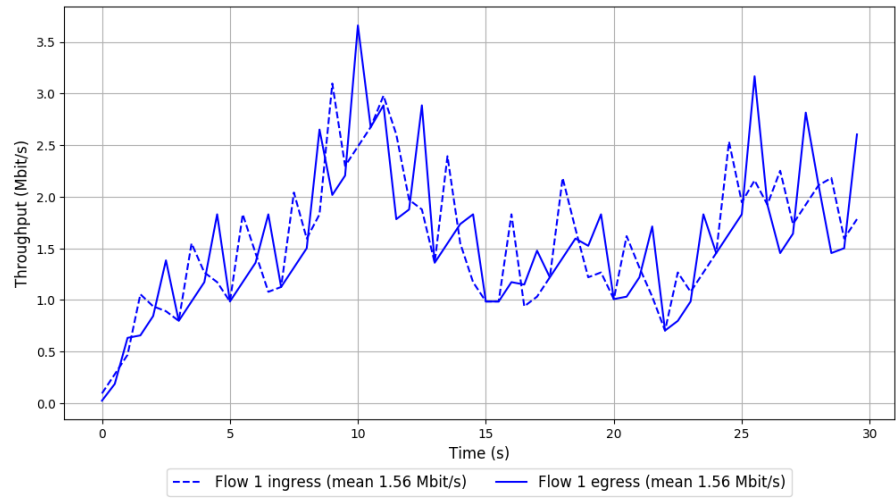
-- Flow 1:

Average throughput: 1.56 Mbit/s

95th percentile per-packet one-way delay: 115.690 ms

Loss rate: 0.00%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-01-30 15:36:28

End at: 2018-01-30 15:36:58

Below is generated by plot.py at 2018-01-30 16:43:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.62 Mbit/s

95th percentile per-packet one-way delay: 114.829 ms

Loss rate: 0.06%

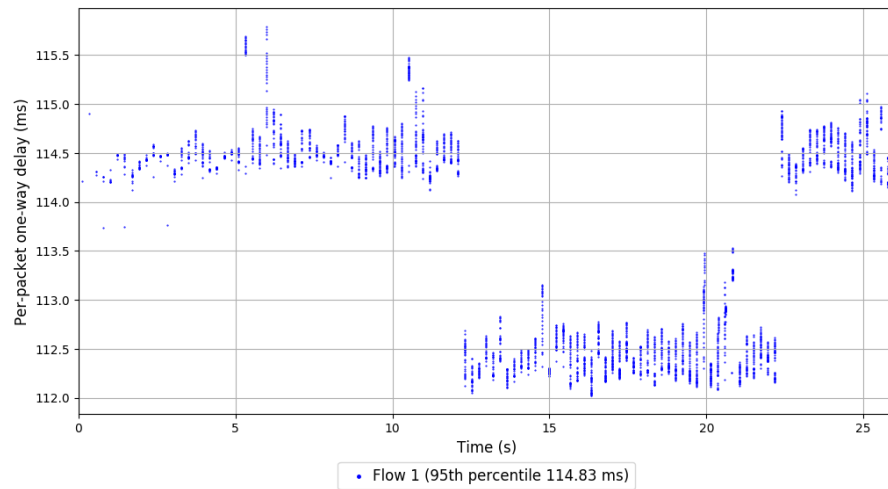
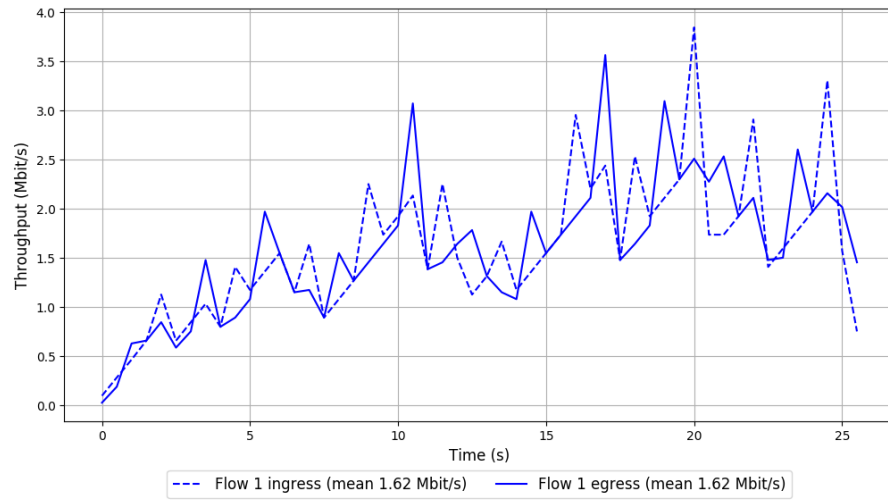
-- Flow 1:

Average throughput: 1.62 Mbit/s

95th percentile per-packet one-way delay: 114.829 ms

Loss rate: 0.06%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-01-30 15:51:04

End at: 2018-01-30 15:51:34

Below is generated by plot.py at 2018-01-30 16:43:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.67 Mbit/s

95th percentile per-packet one-way delay: 114.773 ms

Loss rate: 0.00%

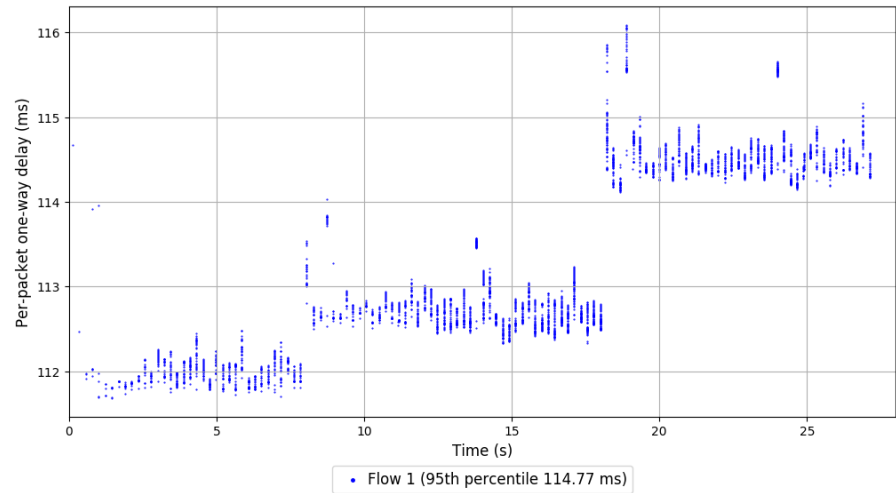
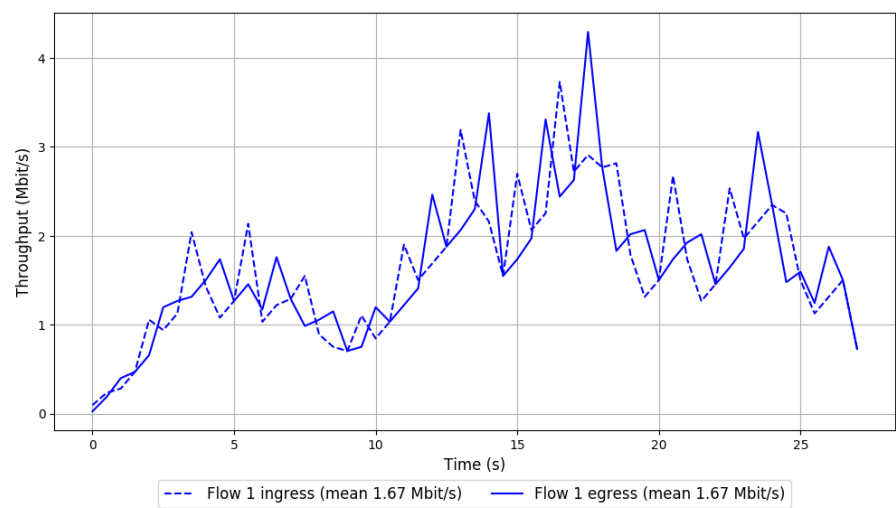
-- Flow 1:

Average throughput: 1.67 Mbit/s

95th percentile per-packet one-way delay: 114.773 ms

Loss rate: 0.00%

Run 10: Report of LEDBAT — Data Link

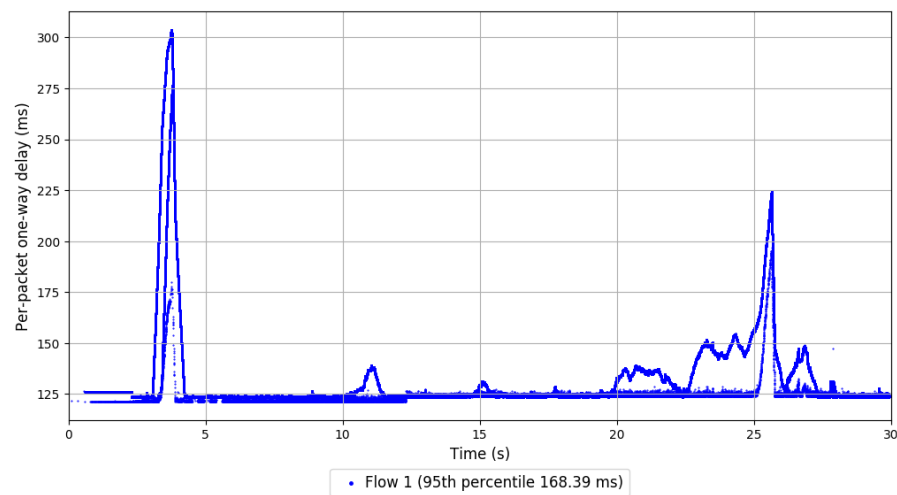
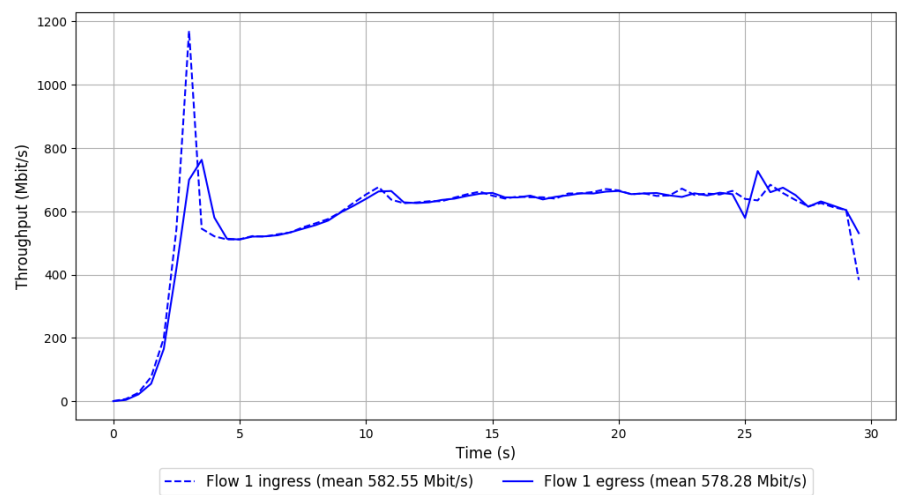


```
Run 1: Statistics of PCC

Start at: 2018-01-30 13:32:12
End at: 2018-01-30 13:32:42

# Below is generated by plot.py at 2018-01-30 16:51:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 578.28 Mbit/s
95th percentile per-packet one-way delay: 168.389 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 578.28 Mbit/s
95th percentile per-packet one-way delay: 168.389 ms
Loss rate: 0.73%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2018-01-30 13:46:48

End at: 2018-01-30 13:47:18

Below is generated by plot.py at 2018-01-30 16:51:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 451.56 Mbit/s

95th percentile per-packet one-way delay: 191.916 ms

Loss rate: 3.39%

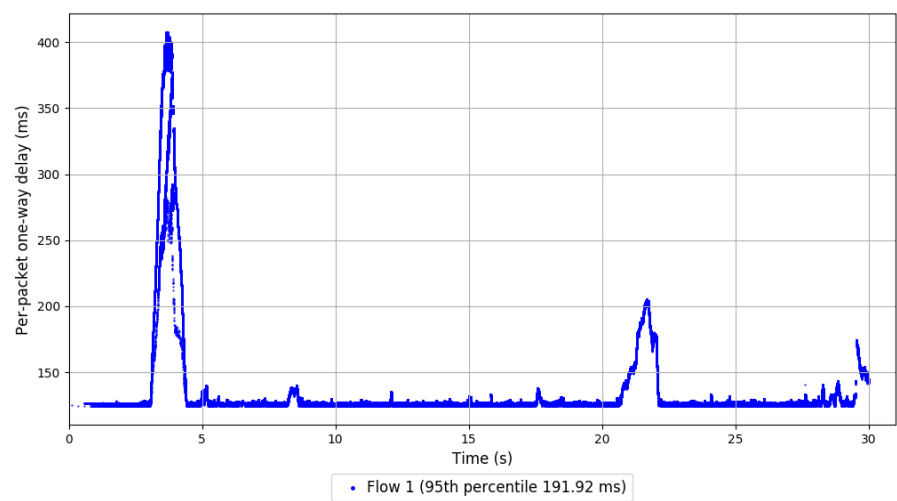
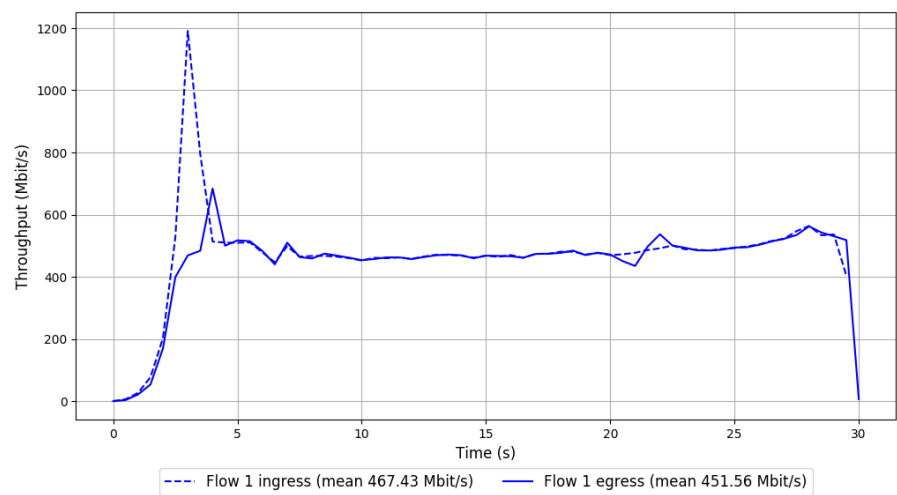
-- Flow 1:

Average throughput: 451.56 Mbit/s

95th percentile per-packet one-way delay: 191.916 ms

Loss rate: 3.39%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-01-30 14:01:29

End at: 2018-01-30 14:01:59

Below is generated by plot.py at 2018-01-30 16:51:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 574.16 Mbit/s

95th percentile per-packet one-way delay: 198.637 ms

Loss rate: 1.49%

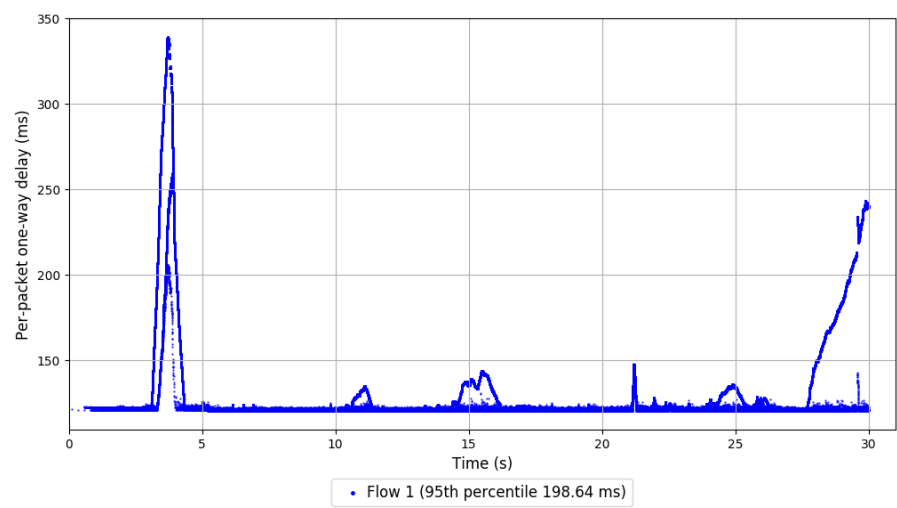
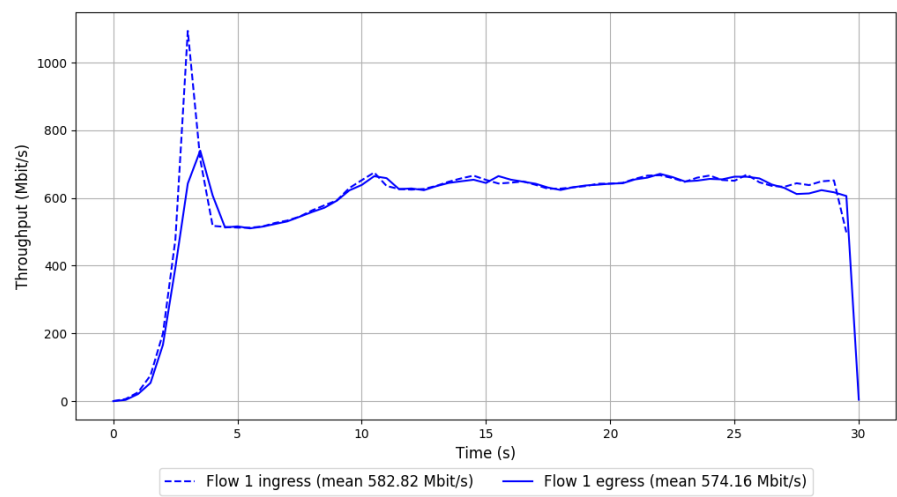
-- Flow 1:

Average throughput: 574.16 Mbit/s

95th percentile per-packet one-way delay: 198.637 ms

Loss rate: 1.49%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-01-30 14:16:49

End at: 2018-01-30 14:17:19

Below is generated by plot.py at 2018-01-30 16:51:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 581.18 Mbit/s

95th percentile per-packet one-way delay: 169.177 ms

Loss rate: 1.10%

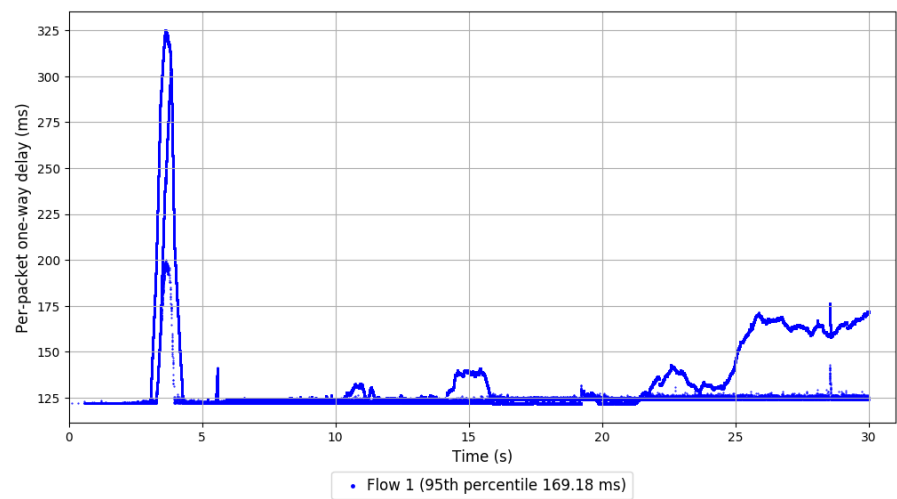
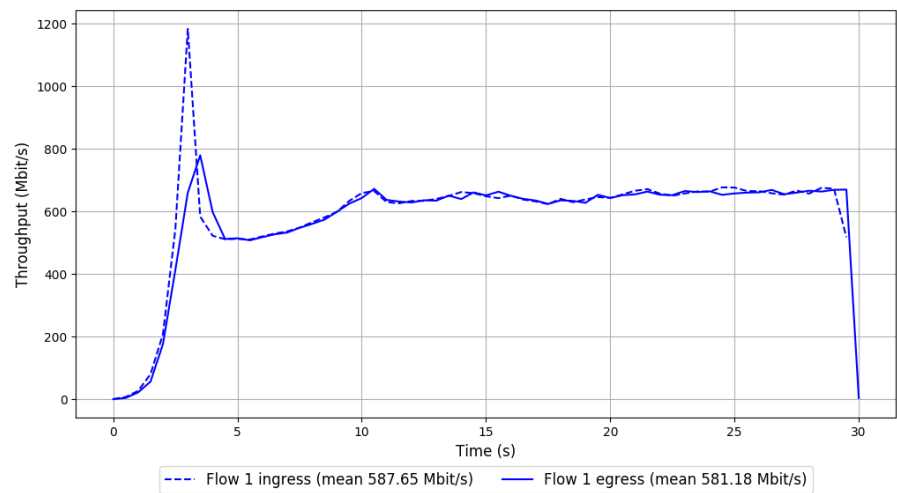
-- Flow 1:

Average throughput: 581.18 Mbit/s

95th percentile per-packet one-way delay: 169.177 ms

Loss rate: 1.10%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-01-30 14:31:55

End at: 2018-01-30 14:32:25

Below is generated by plot.py at 2018-01-30 16:51:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 546.22 Mbit/s

95th percentile per-packet one-way delay: 240.605 ms

Loss rate: 2.77%

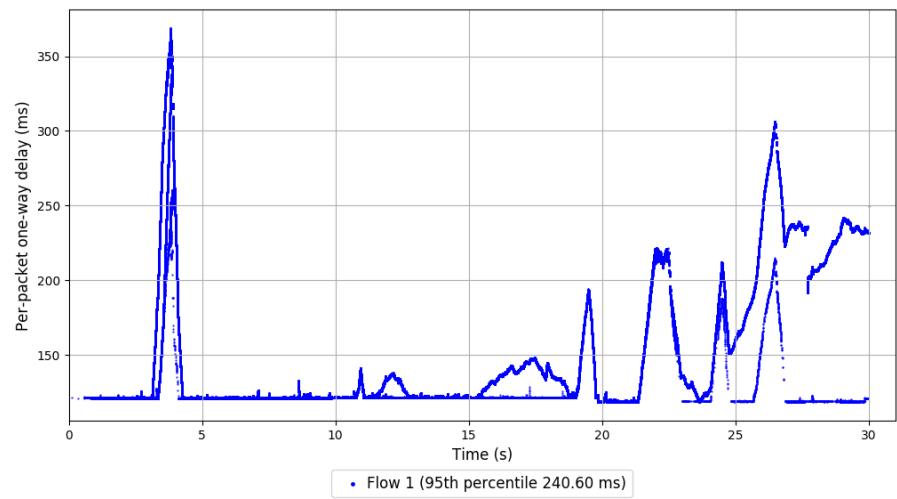
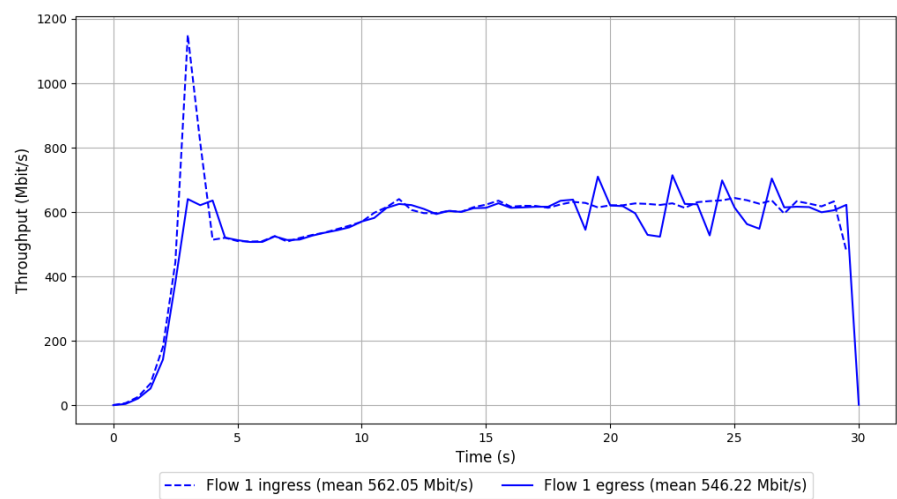
-- Flow 1:

Average throughput: 546.22 Mbit/s

95th percentile per-packet one-way delay: 240.605 ms

Loss rate: 2.77%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-01-30 14:47:02

End at: 2018-01-30 14:47:32

Below is generated by plot.py at 2018-01-30 16:52:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 578.78 Mbit/s

95th percentile per-packet one-way delay: 222.342 ms

Loss rate: 0.77%

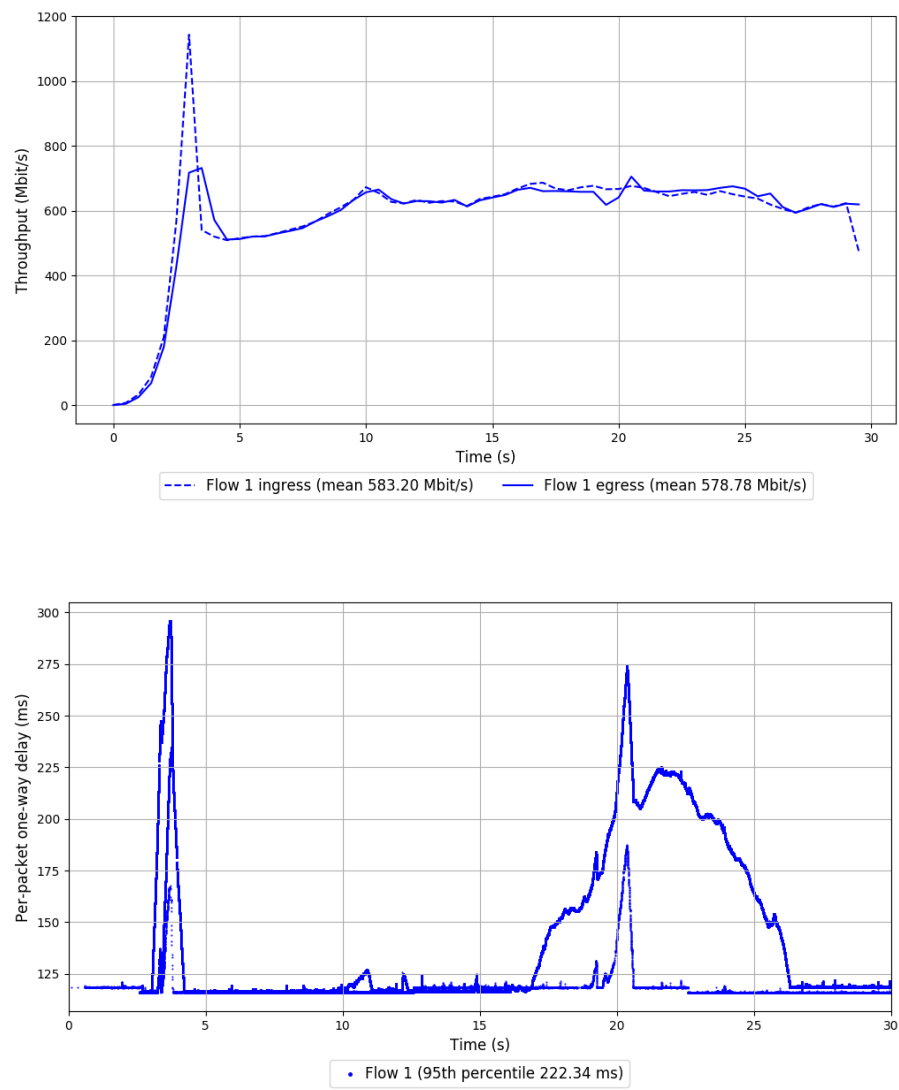
-- Flow 1:

Average throughput: 578.78 Mbit/s

95th percentile per-packet one-way delay: 222.342 ms

Loss rate: 0.77%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-01-30 15:02:24

End at: 2018-01-30 15:02:54

Below is generated by plot.py at 2018-01-30 16:52:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 544.22 Mbit/s

95th percentile per-packet one-way delay: 139.798 ms

Loss rate: 1.99%

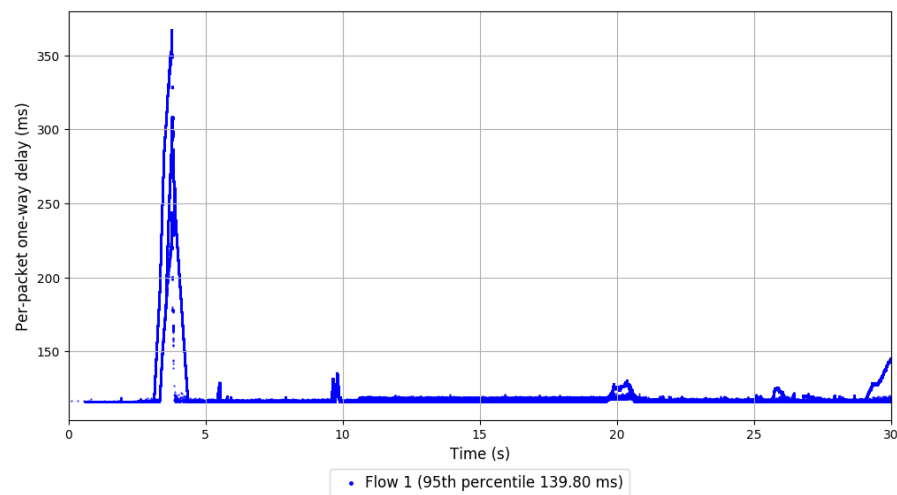
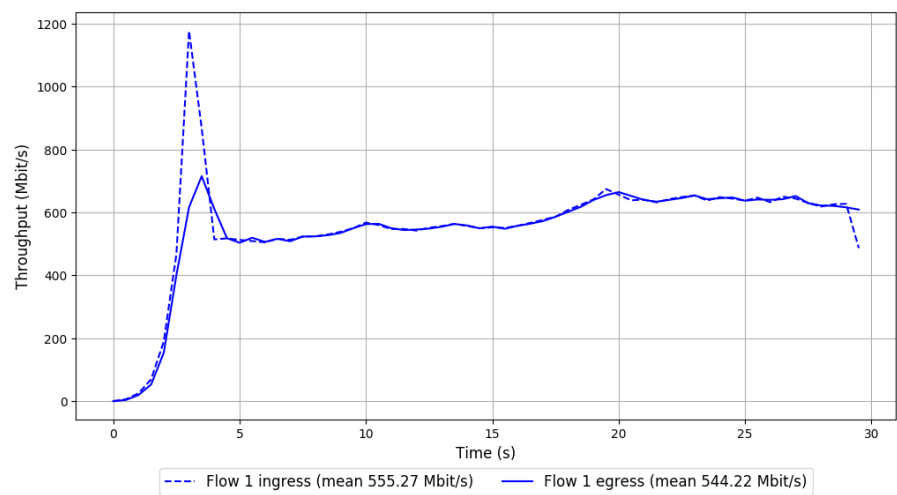
-- Flow 1:

Average throughput: 544.22 Mbit/s

95th percentile per-packet one-way delay: 139.798 ms

Loss rate: 1.99%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-01-30 15:17:04

End at: 2018-01-30 15:17:34

Below is generated by plot.py at 2018-01-30 16:52:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 560.79 Mbit/s

95th percentile per-packet one-way delay: 169.475 ms

Loss rate: 2.05%

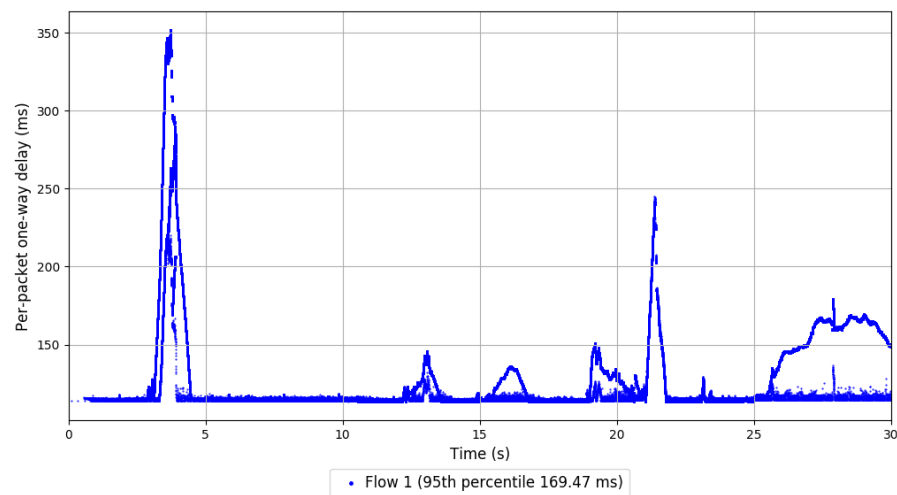
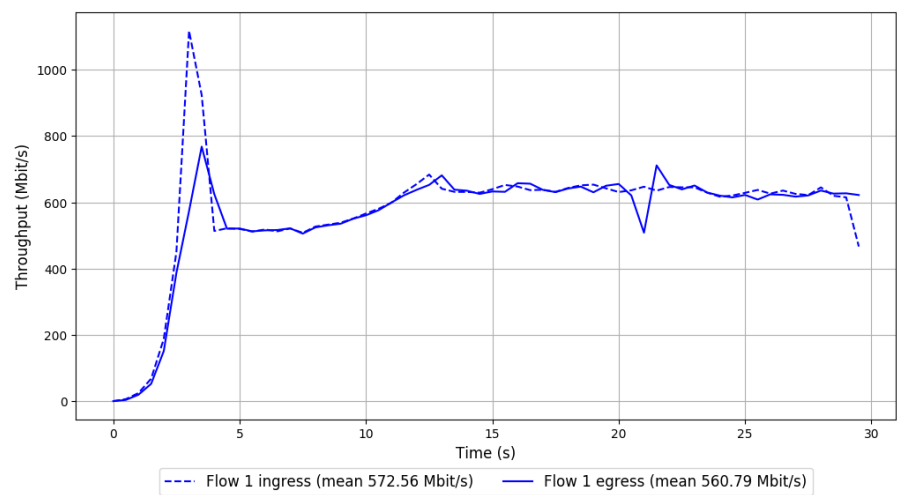
-- Flow 1:

Average throughput: 560.79 Mbit/s

95th percentile per-packet one-way delay: 169.475 ms

Loss rate: 2.05%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2018-01-30 15:31:36

End at: 2018-01-30 15:32:06

Below is generated by plot.py at 2018-01-30 17:00:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 537.42 Mbit/s

95th percentile per-packet one-way delay: 234.663 ms

Loss rate: 2.14%

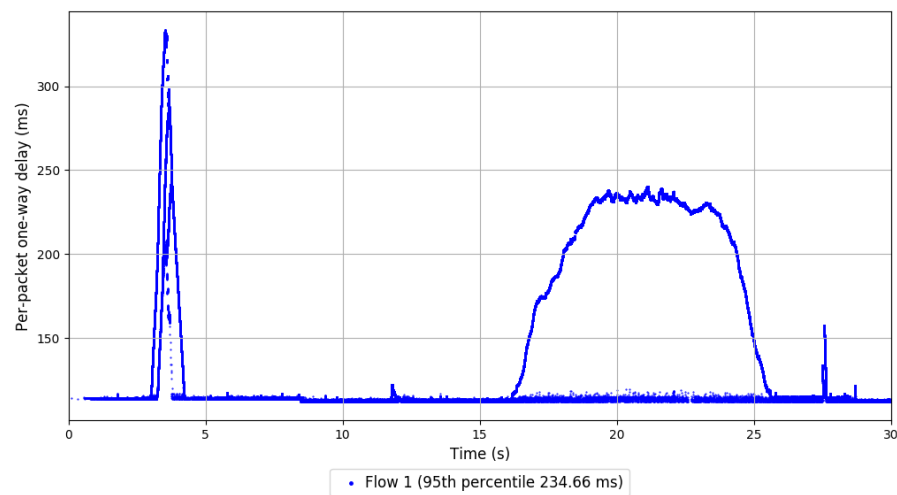
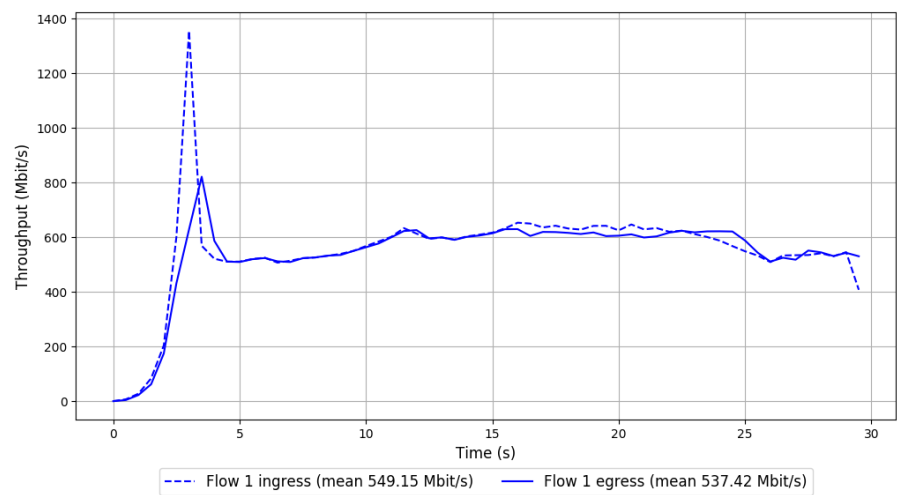
-- Flow 1:

Average throughput: 537.42 Mbit/s

95th percentile per-packet one-way delay: 234.663 ms

Loss rate: 2.14%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2018-01-30 15:46:11

End at: 2018-01-30 15:46:41

Below is generated by plot.py at 2018-01-30 17:01:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 523.17 Mbit/s

95th percentile per-packet one-way delay: 124.745 ms

Loss rate: 1.45%

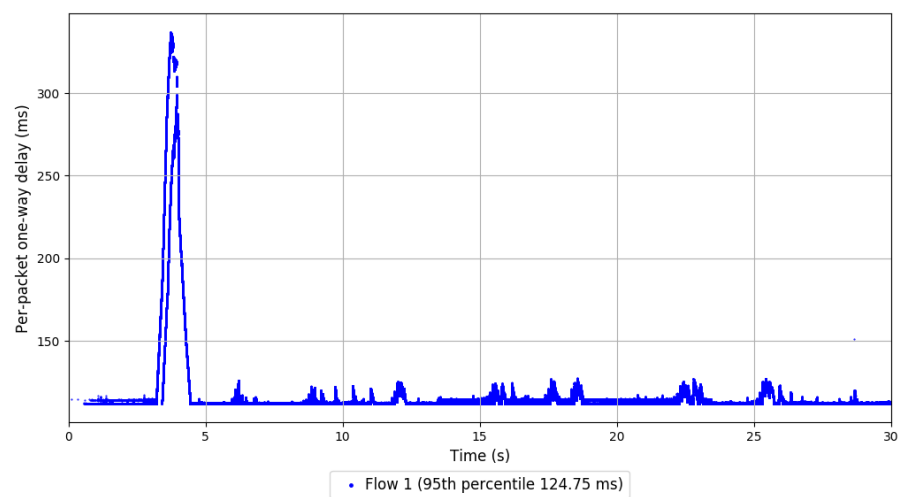
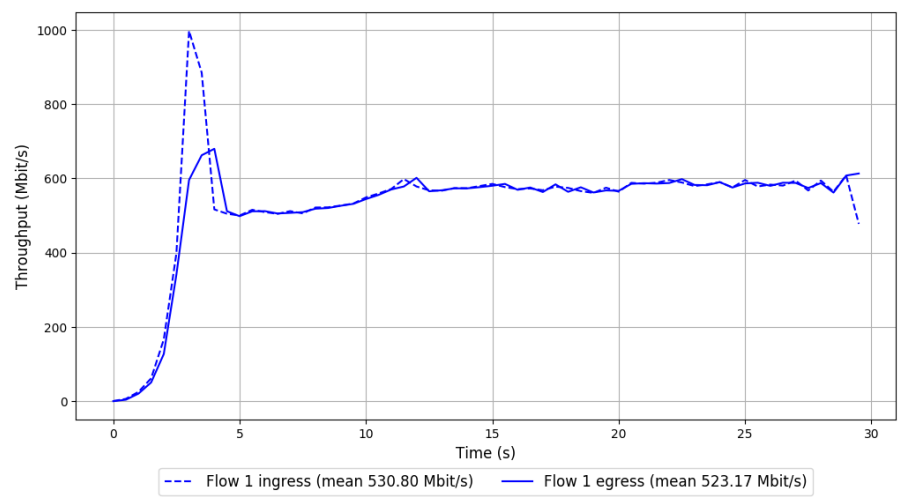
-- Flow 1:

Average throughput: 523.17 Mbit/s

95th percentile per-packet one-way delay: 124.745 ms

Loss rate: 1.45%

Run 10: Report of PCC — Data Link

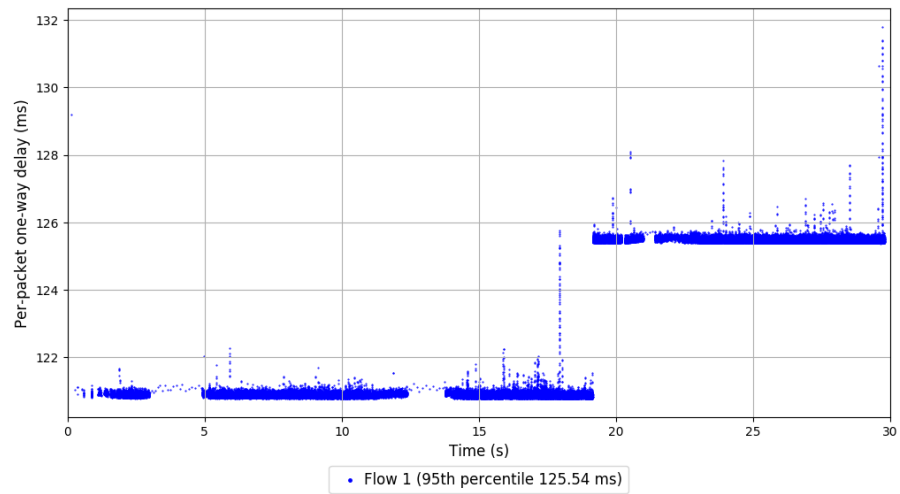
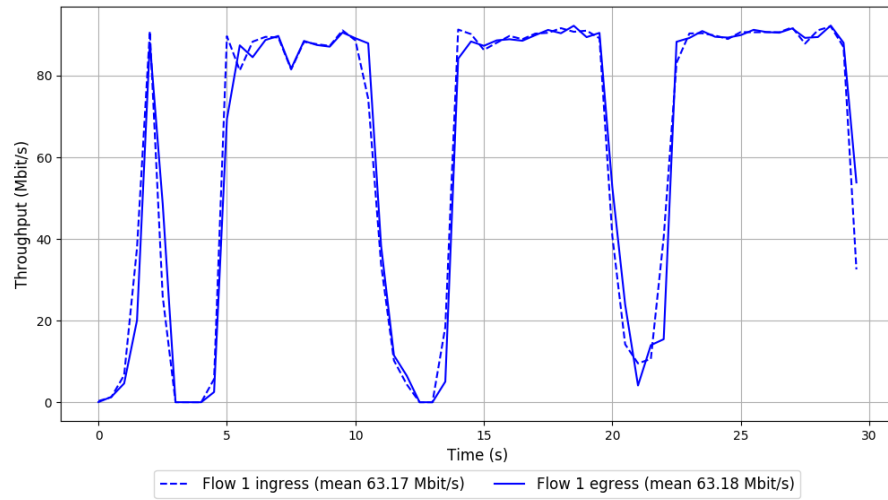


```
Run 1: Statistics of QUIC Cubic

Start at: 2018-01-30 13:23:25
End at: 2018-01-30 13:23:55

# Below is generated by plot.py at 2018-01-30 17:01:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 63.18 Mbit/s
95th percentile per-packet one-way delay: 125.537 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 63.18 Mbit/s
95th percentile per-packet one-way delay: 125.537 ms
Loss rate: 0.02%
```

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-01-30 13:37:56

End at: 2018-01-30 13:38:26

Below is generated by plot.py at 2018-01-30 17:01:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 43.70 Mbit/s

95th percentile per-packet one-way delay: 124.556 ms

Loss rate: 0.00%

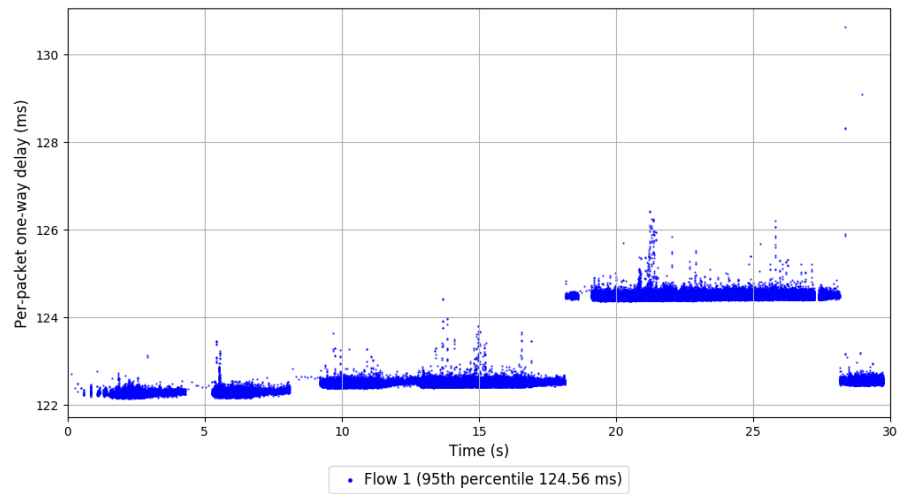
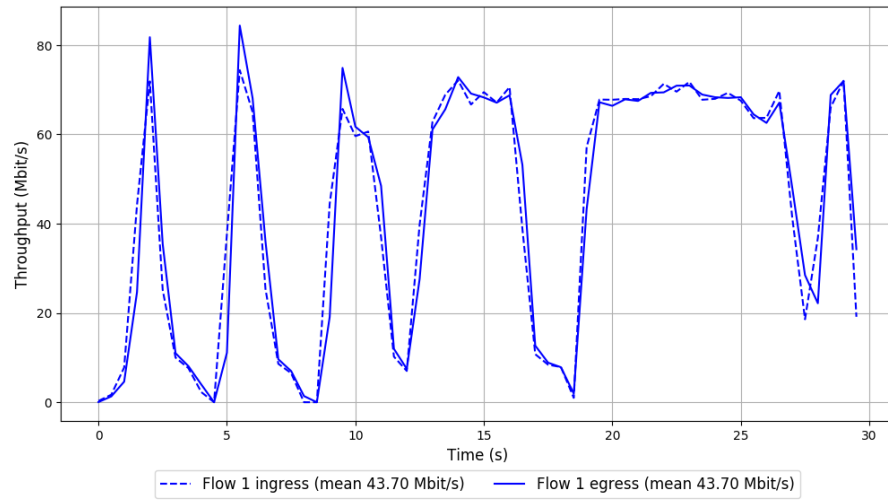
-- Flow 1:

Average throughput: 43.70 Mbit/s

95th percentile per-packet one-way delay: 124.556 ms

Loss rate: 0.00%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-01-30 13:52:24

End at: 2018-01-30 13:52:54

Below is generated by plot.py at 2018-01-30 17:01:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 60.73 Mbit/s

95th percentile per-packet one-way delay: 122.369 ms

Loss rate: 0.00%

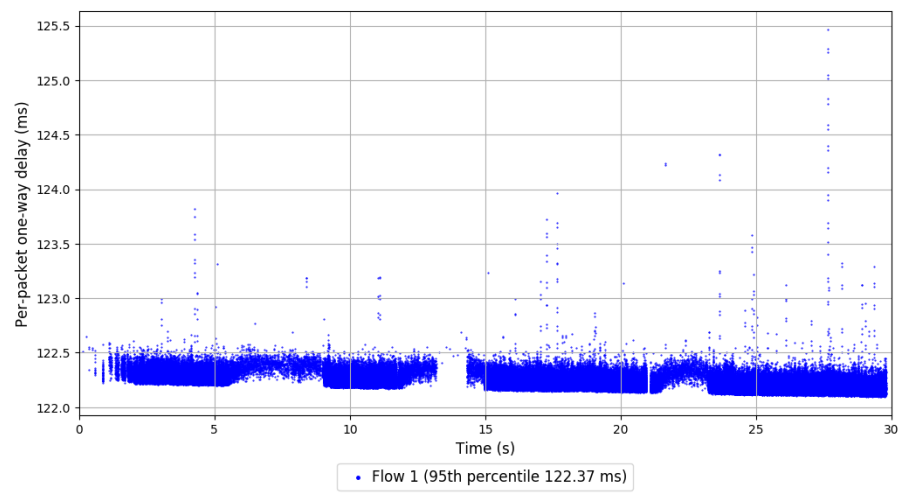
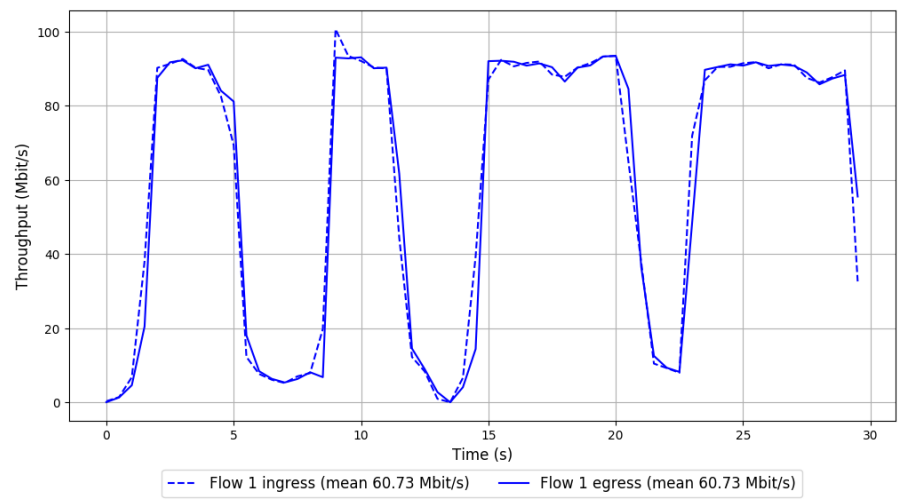
-- Flow 1:

Average throughput: 60.73 Mbit/s

95th percentile per-packet one-way delay: 122.369 ms

Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-01-30 14:07:22

End at: 2018-01-30 14:07:52

Below is generated by plot.py at 2018-01-30 17:01:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.59 Mbit/s

95th percentile per-packet one-way delay: 119.966 ms

Loss rate: 0.00%

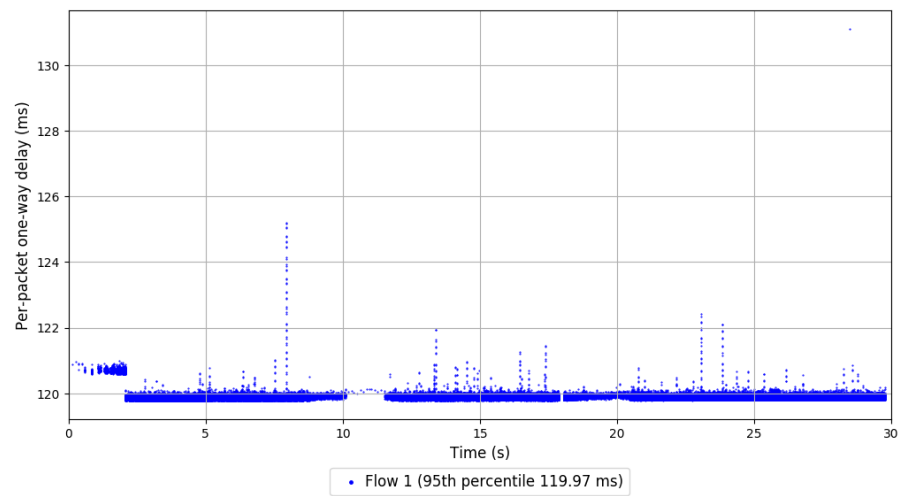
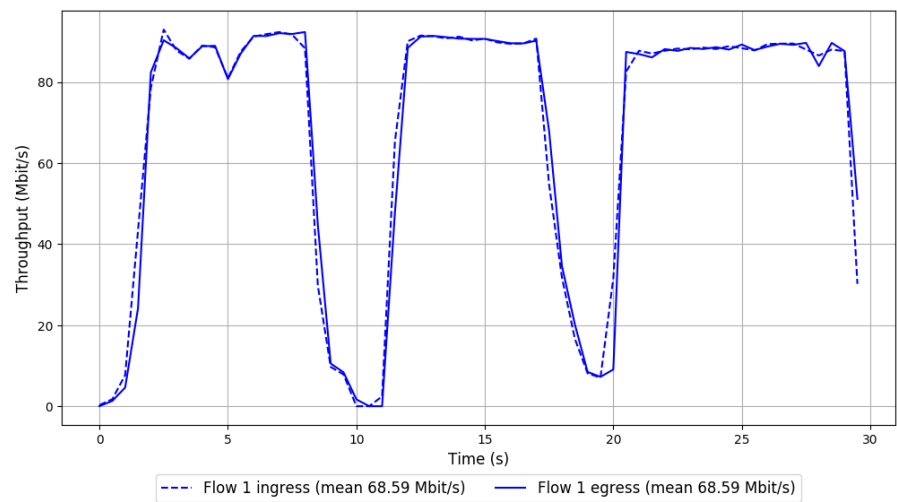
-- Flow 1:

Average throughput: 68.59 Mbit/s

95th percentile per-packet one-way delay: 119.966 ms

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-01-30 14:22:40

End at: 2018-01-30 14:23:10

Below is generated by plot.py at 2018-01-30 17:01:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 61.61 Mbit/s

95th percentile per-packet one-way delay: 123.125 ms

Loss rate: 0.01%

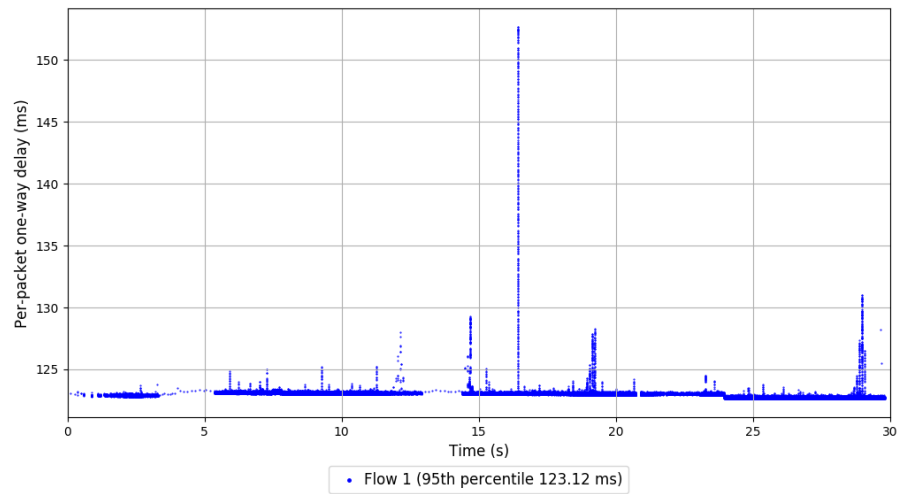
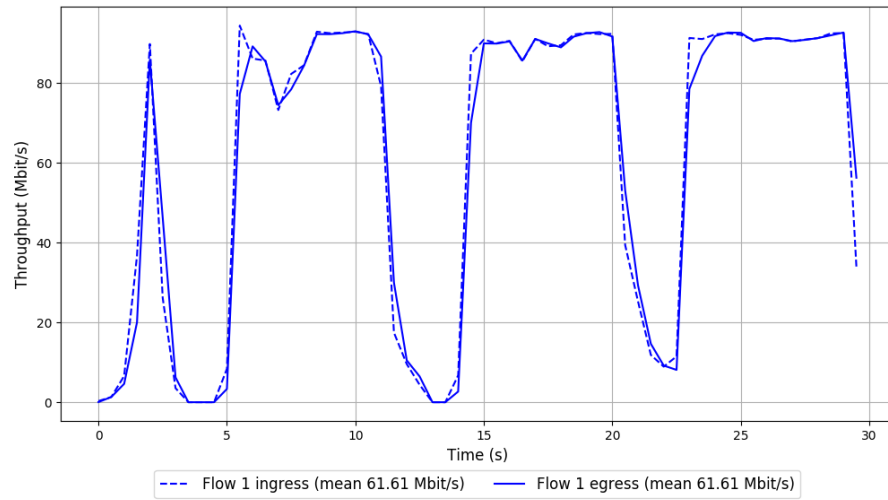
-- Flow 1:

Average throughput: 61.61 Mbit/s

95th percentile per-packet one-way delay: 123.125 ms

Loss rate: 0.01%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-01-30 14:37:49

End at: 2018-01-30 14:38:19

Below is generated by plot.py at 2018-01-30 17:01:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 70.49 Mbit/s

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

Loss rate: 0.01%

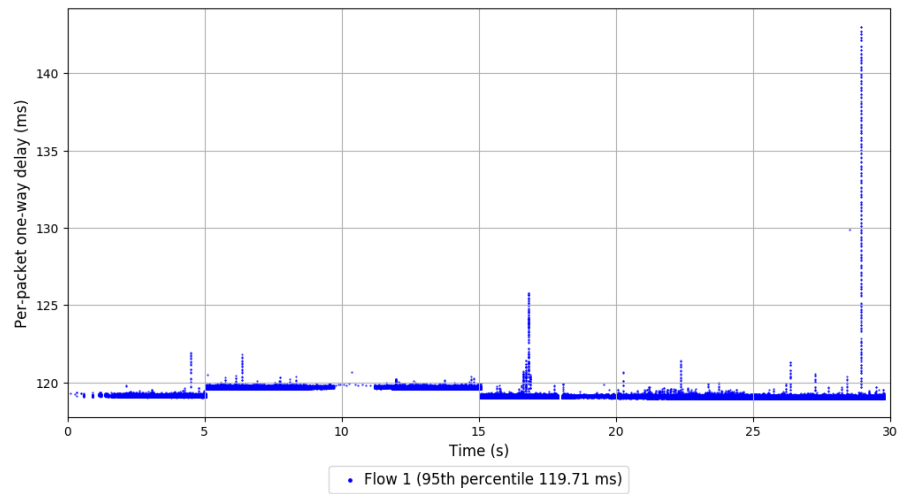
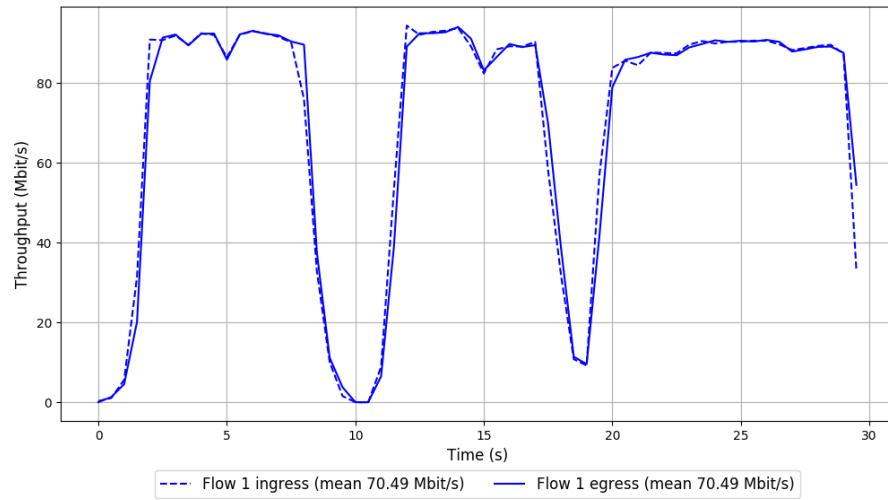
-- Flow 1:

Average throughput: 70.49 Mbit/s

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

Loss rate: 0.01%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-01-30 14:52:58

End at: 2018-01-30 14:53:28

Below is generated by plot.py at 2018-01-30 17:01:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.26 Mbit/s

95th percentile per-packet one-way delay: 117.898 ms

Loss rate: 0.01%

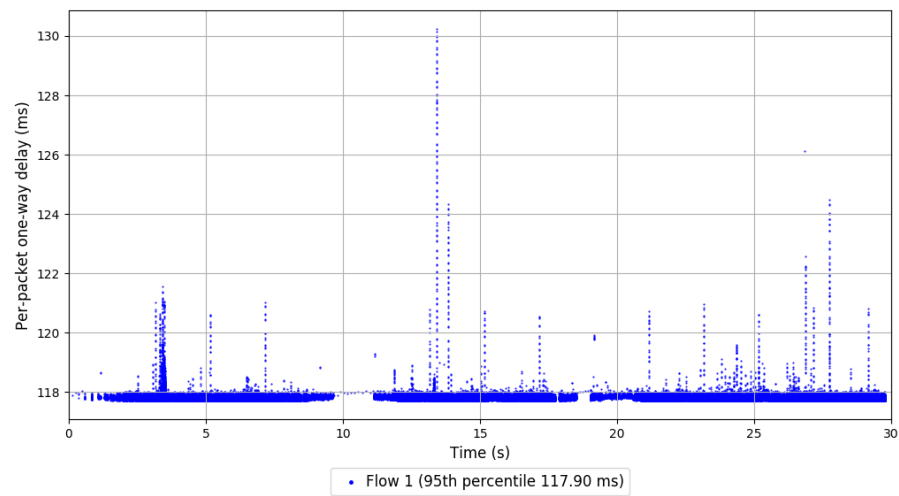
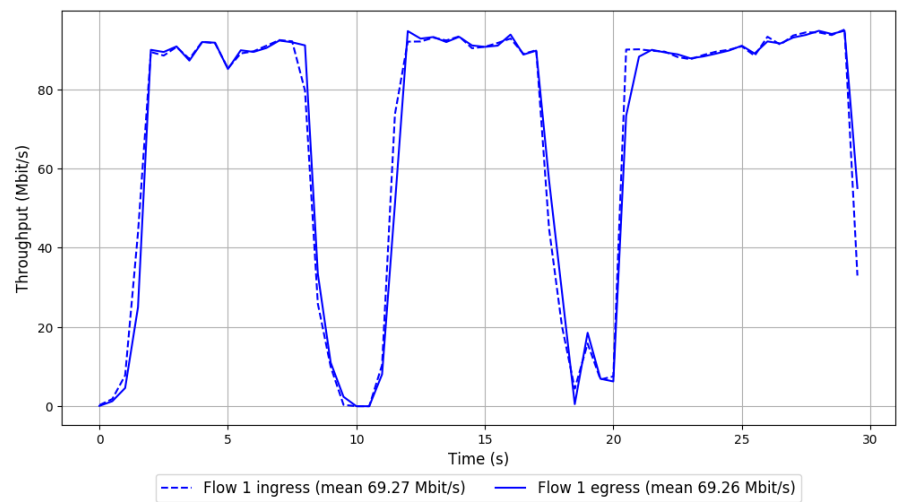
-- Flow 1:

Average throughput: 69.26 Mbit/s

95th percentile per-packet one-way delay: 117.898 ms

Loss rate: 0.01%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-01-30 15:08:00

End at: 2018-01-30 15:08:30

Below is generated by plot.py at 2018-01-30 17:01:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 54.32 Mbit/s

95th percentile per-packet one-way delay: 115.088 ms

Loss rate: 0.00%

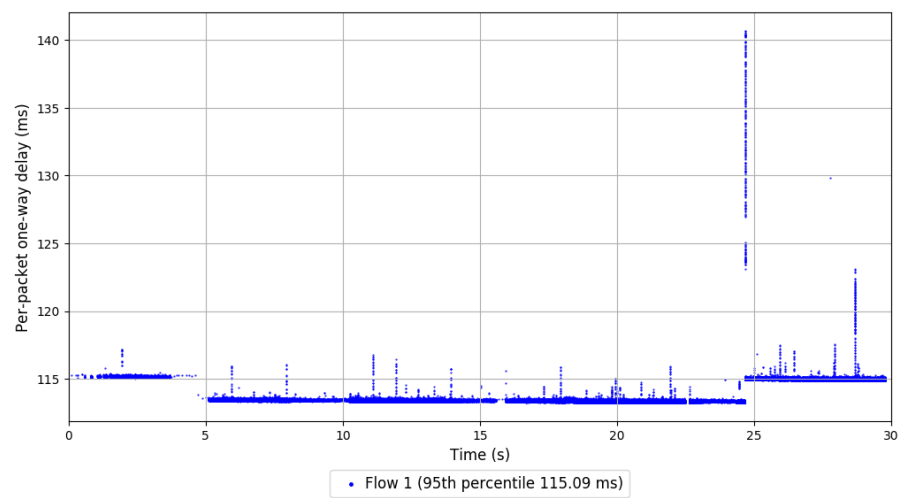
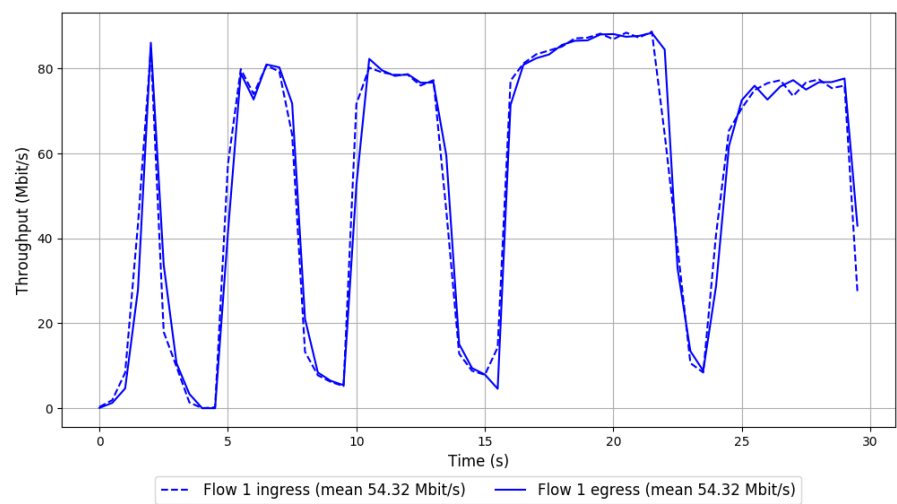
-- Flow 1:

Average throughput: 54.32 Mbit/s

95th percentile per-packet one-way delay: 115.088 ms

Loss rate: 0.00%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-01-30 15:22:33

End at: 2018-01-30 15:23:03

Below is generated by plot.py at 2018-01-30 17:01:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 54.02 Mbit/s

95th percentile per-packet one-way delay: 114.909 ms

Loss rate: 0.00%

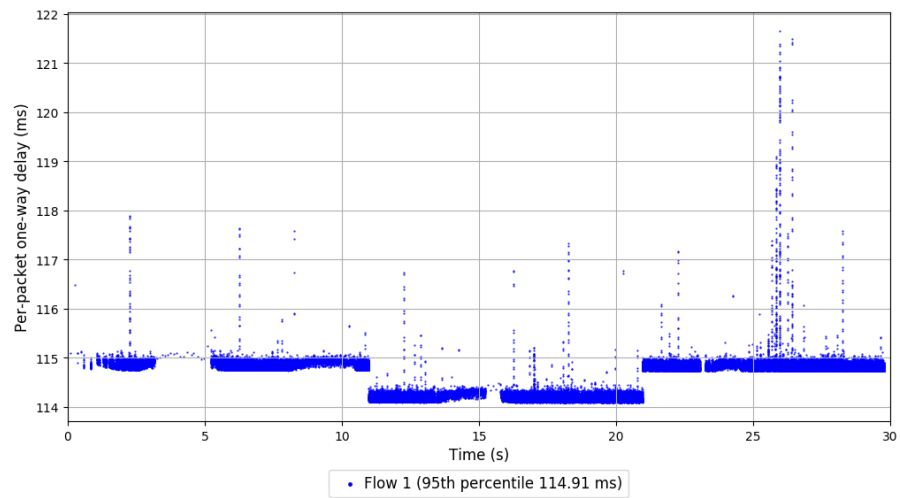
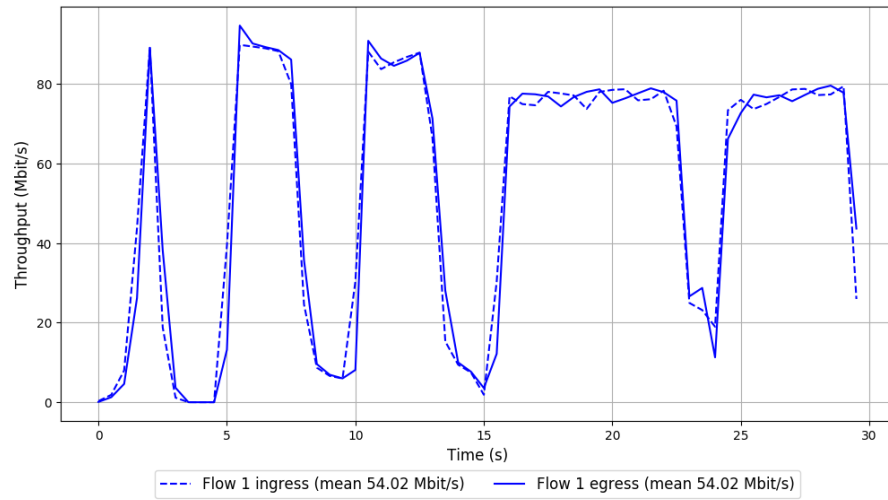
-- Flow 1:

Average throughput: 54.02 Mbit/s

95th percentile per-packet one-way delay: 114.909 ms

Loss rate: 0.00%

Run 9: Report of QUIC Cubic — Data Link

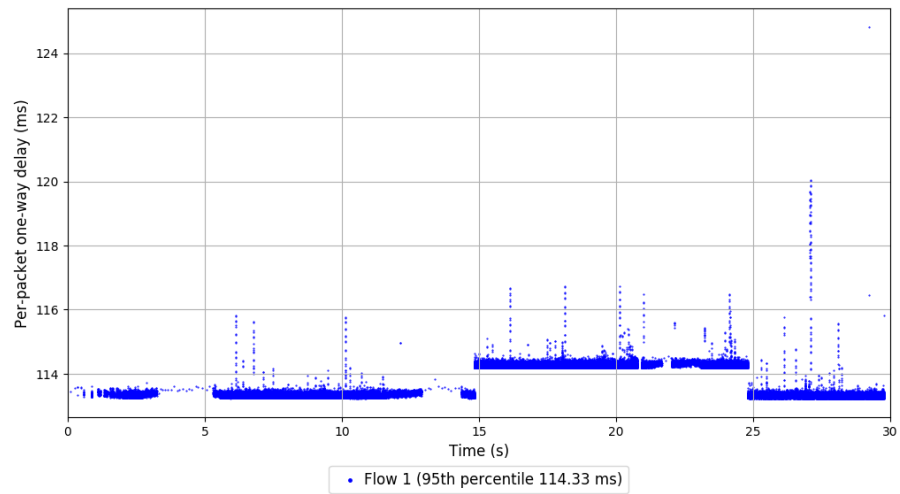
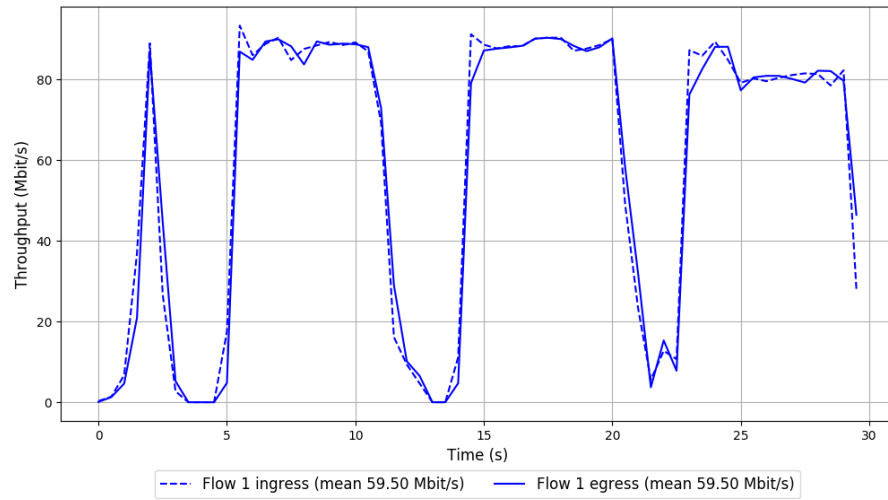


```
Run 10: Statistics of QUIC Cubic

Start at: 2018-01-30 15:37:09
End at: 2018-01-30 15:37:39

# Below is generated by plot.py at 2018-01-30 17:01:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 59.50 Mbit/s
95th percentile per-packet one-way delay: 114.328 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 59.50 Mbit/s
95th percentile per-packet one-way delay: 114.328 ms
Loss rate: 0.00%
```

Run 10: Report of QUIC Cubic — Data Link

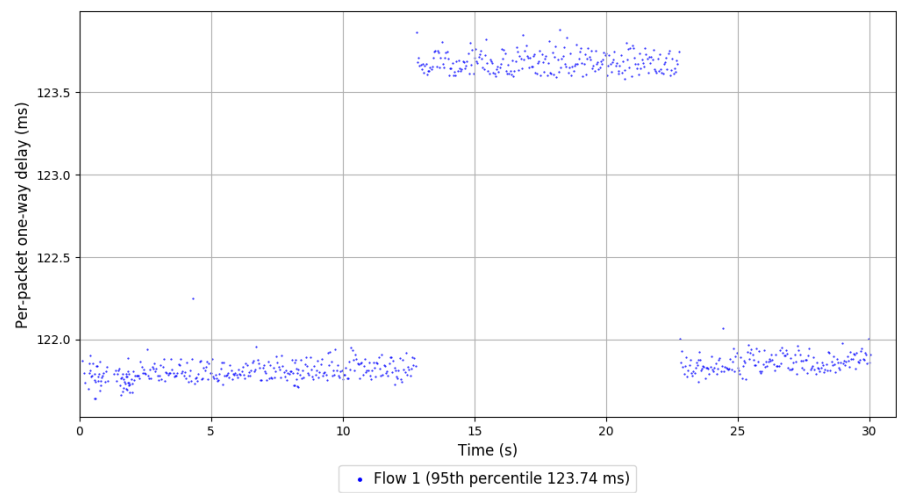
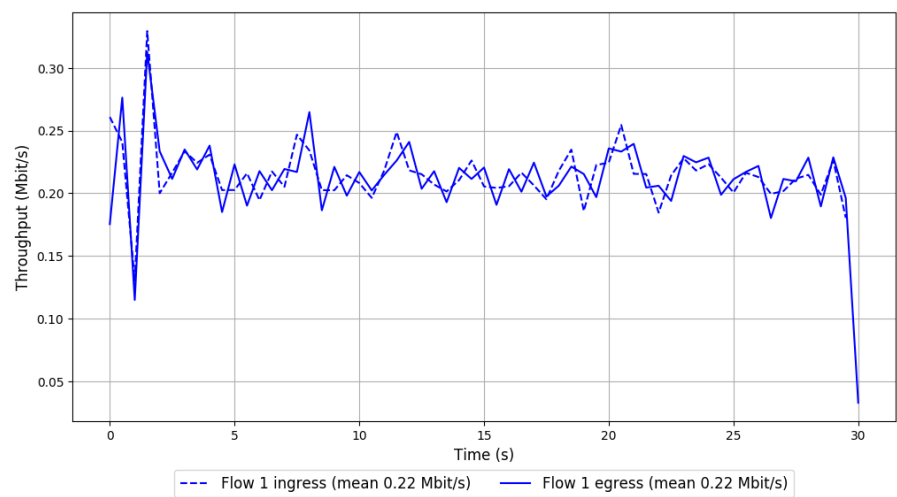


```
Run 1: Statistics of SCReAM

Start at: 2018-01-30 13:31:32
End at: 2018-01-30 13:32:02

# Below is generated by plot.py at 2018-01-30 17:01:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 123.743 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 123.743 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

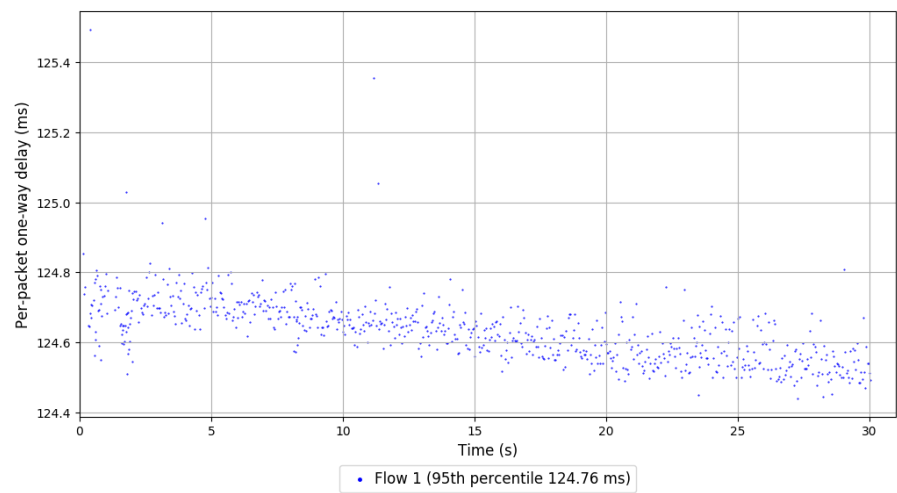
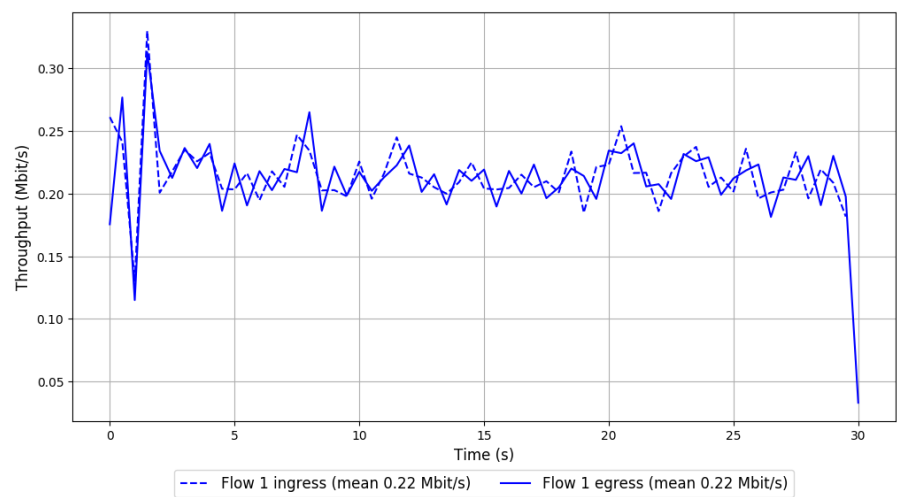


```
Run 2: Statistics of SCReAM

Start at: 2018-01-30 13:46:07
End at: 2018-01-30 13:46:37

# Below is generated by plot.py at 2018-01-30 17:01:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 124.761 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 124.761 ms
Loss rate: 0.00%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-01-30 14:00:49

End at: 2018-01-30 14:01:19

Below is generated by plot.py at 2018-01-30 17:01:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 122.075 ms

Loss rate: 0.00%

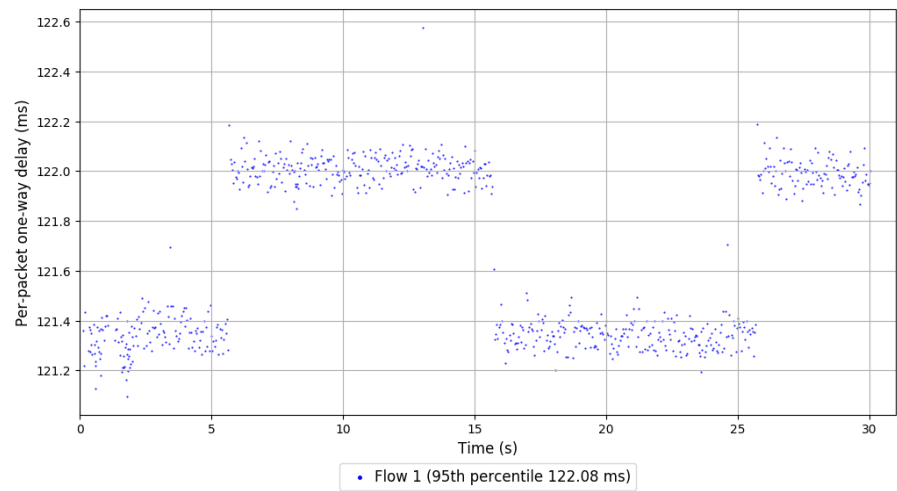
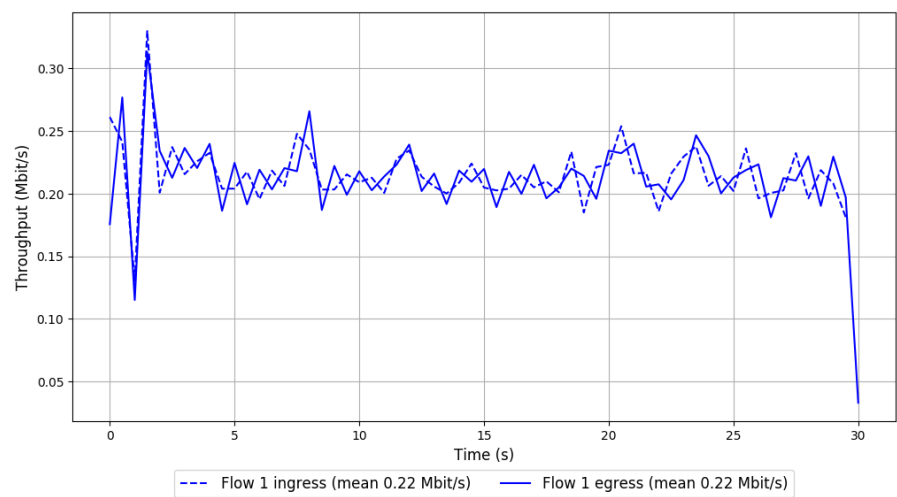
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 122.075 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2018-01-30 14:16:08

End at: 2018-01-30 14:16:38

Below is generated by plot.py at 2018-01-30 17:01:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 123.066 ms

Loss rate: 0.00%

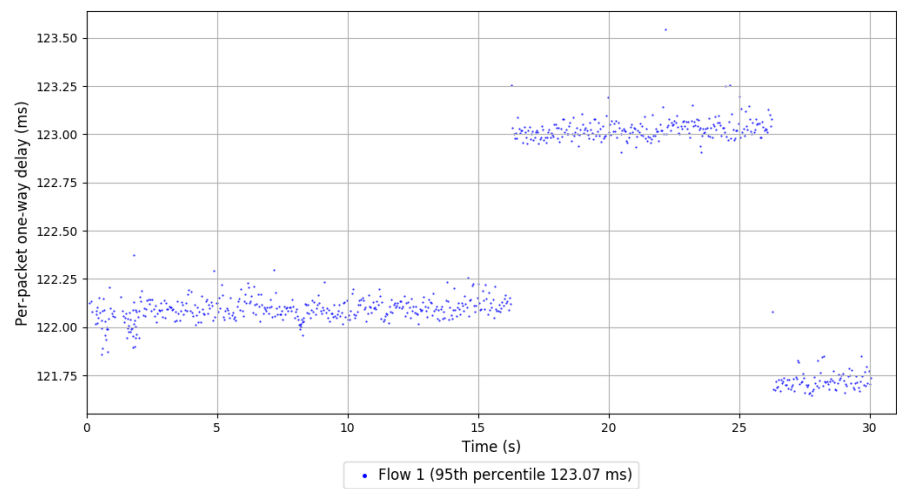
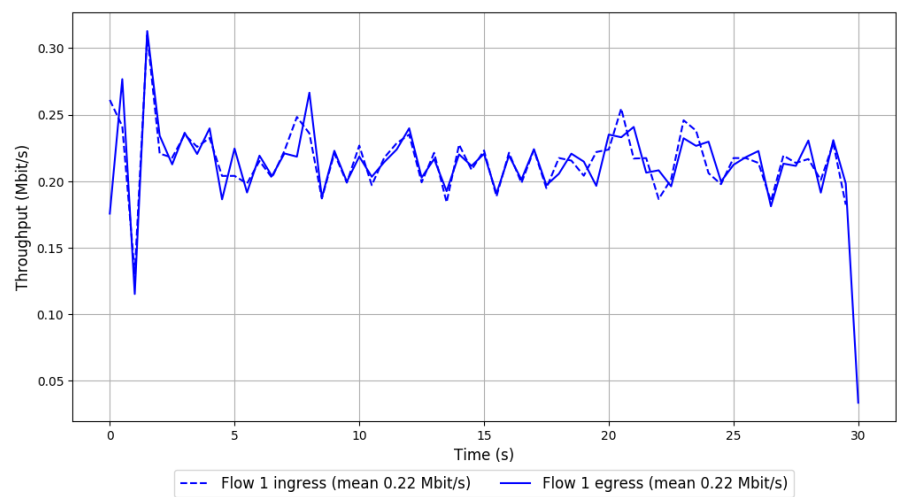
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 123.066 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-01-30 14:31:14

End at: 2018-01-30 14:31:44

Below is generated by plot.py at 2018-01-30 17:01:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 119.493 ms

Loss rate: 0.00%

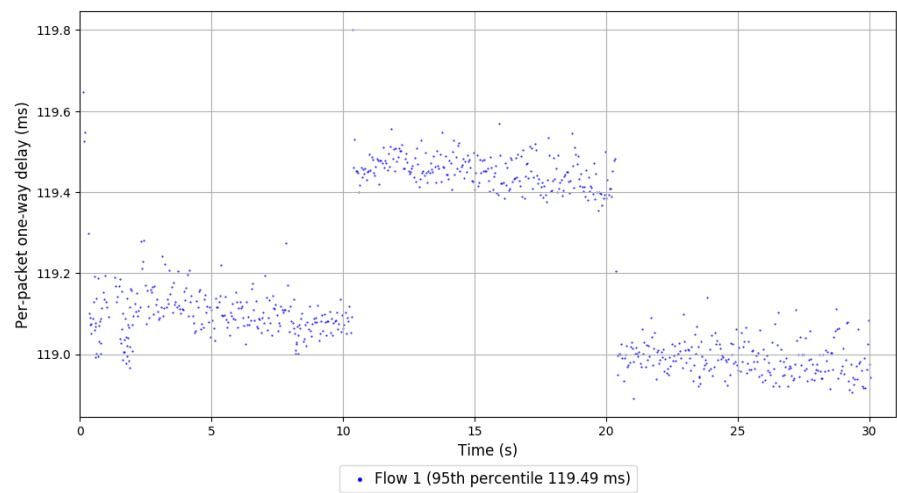
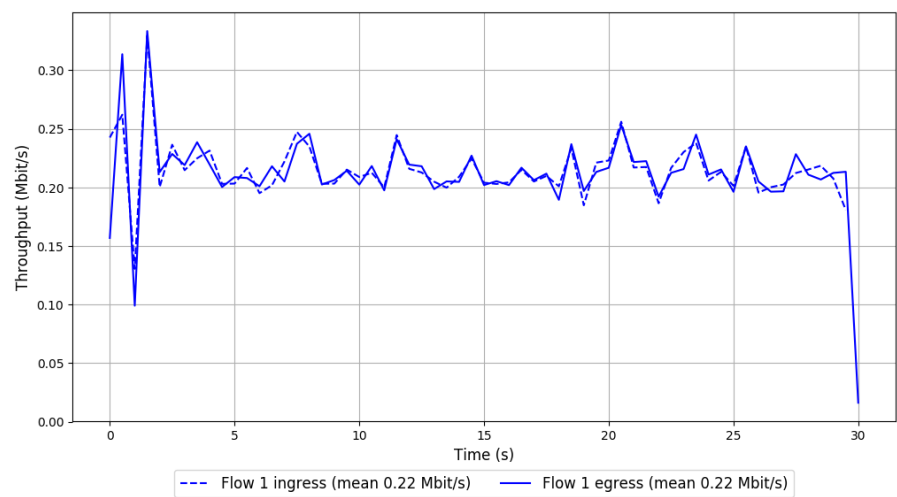
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 119.493 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-01-30 14:46:21

End at: 2018-01-30 14:46:51

Below is generated by plot.py at 2018-01-30 17:01:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 118.297 ms

Loss rate: 0.00%

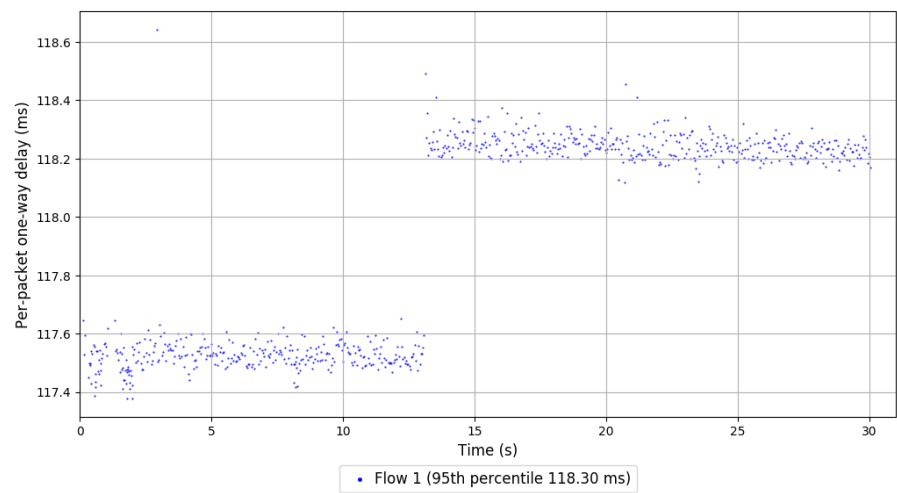
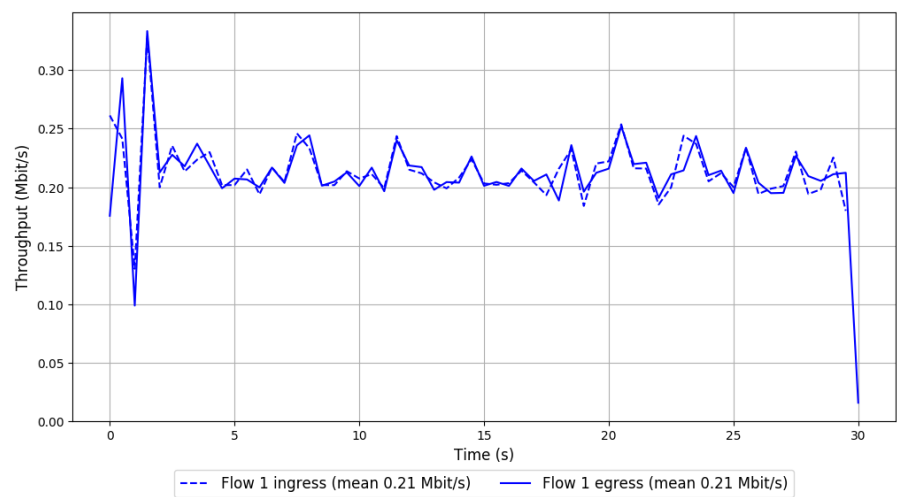
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 118.297 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2018-01-30 15:01:43

End at: 2018-01-30 15:02:13

Below is generated by plot.py at 2018-01-30 17:01:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 118.628 ms

Loss rate: 0.00%

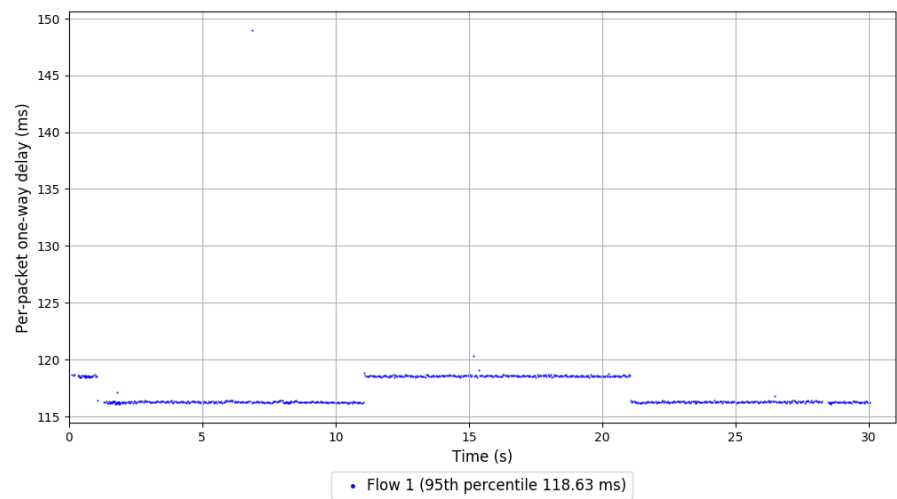
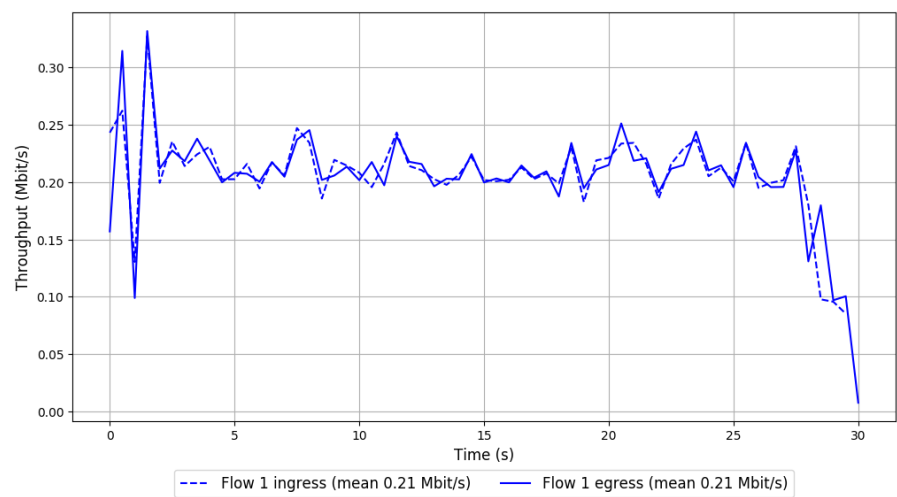
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 118.628 ms

Loss rate: 0.00%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-01-30 15:16:24

End at: 2018-01-30 15:16:54

Below is generated by plot.py at 2018-01-30 17:01:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 114.970 ms

Loss rate: 0.00%

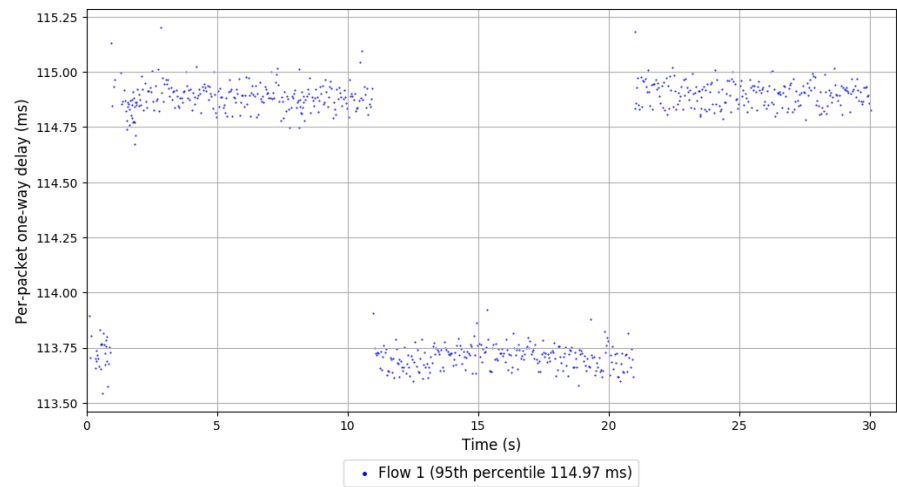
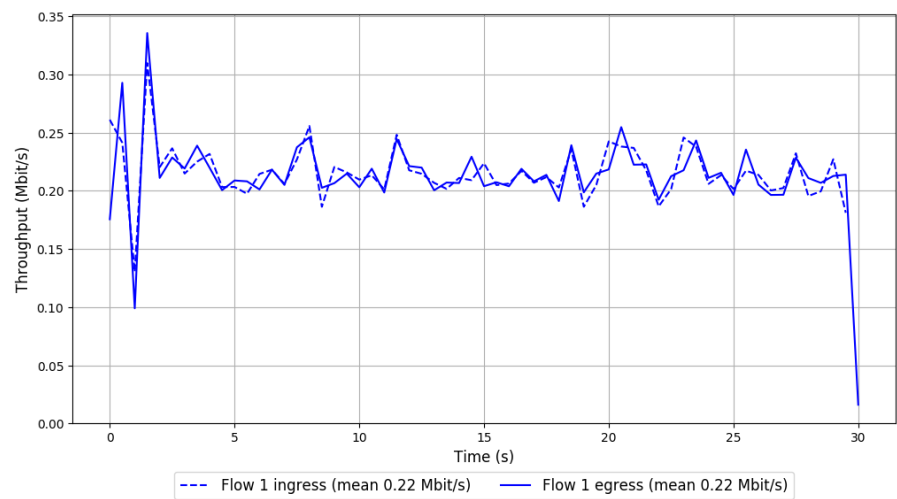
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 114.970 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-01-30 15:30:56

End at: 2018-01-30 15:31:26

Below is generated by plot.py at 2018-01-30 17:01:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 114.763 ms

Loss rate: 0.00%

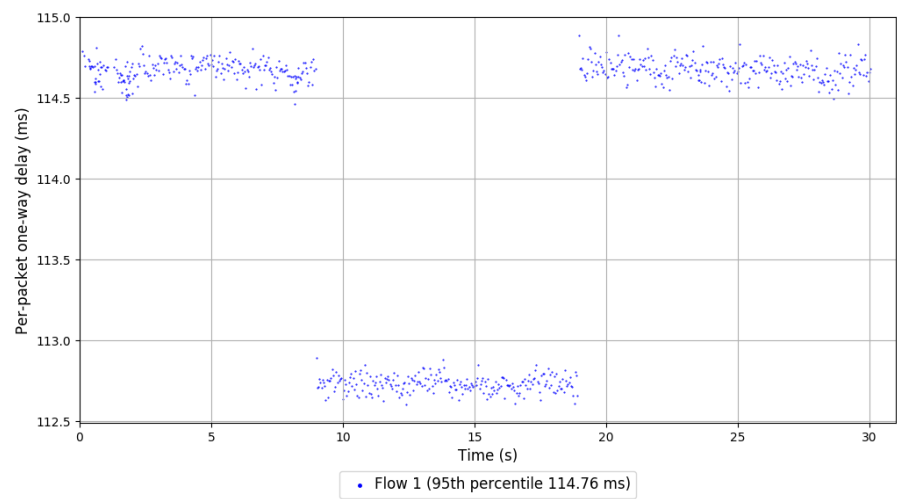
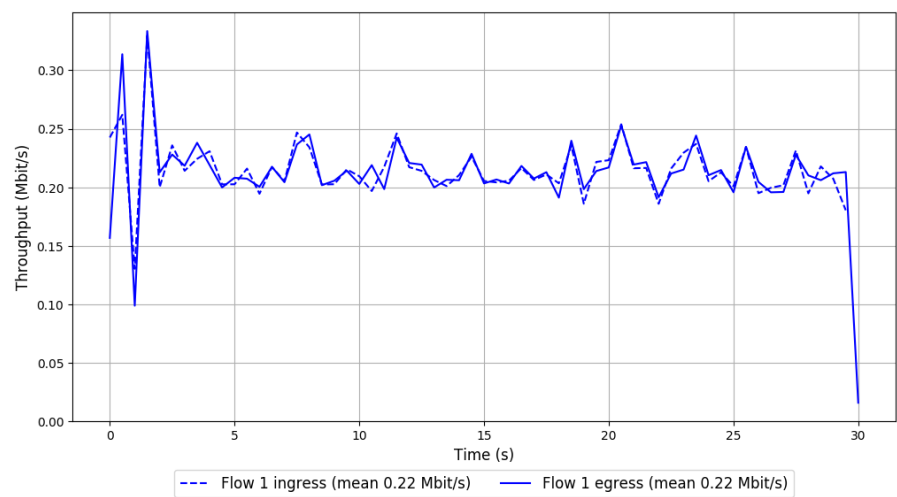
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 114.763 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-01-30 15:45:31

End at: 2018-01-30 15:46:01

Below is generated by plot.py at 2018-01-30 17:01:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 112.800 ms

Loss rate: 0.00%

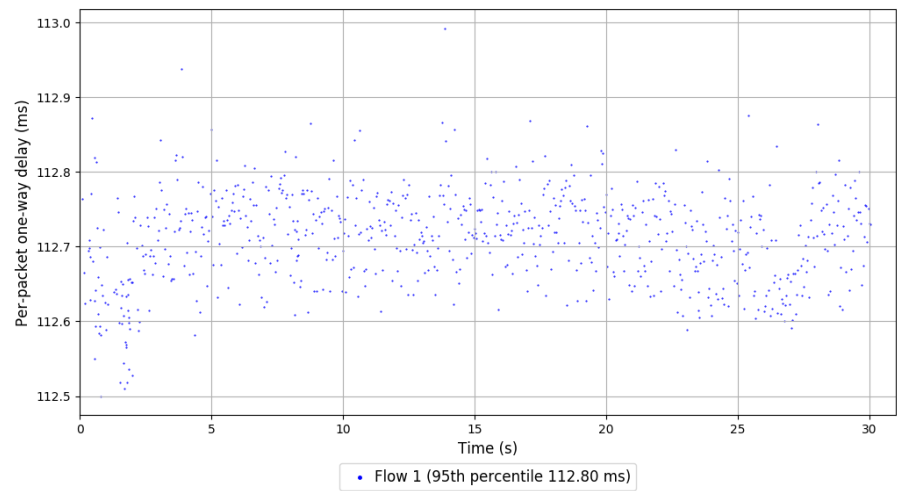
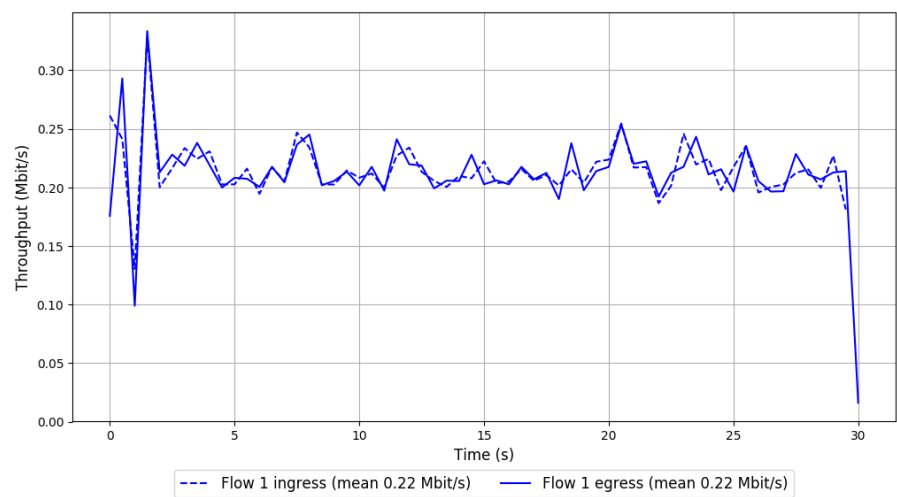
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 112.800 ms

Loss rate: 0.00%

Run 10: Report of SCRaM — Data Link

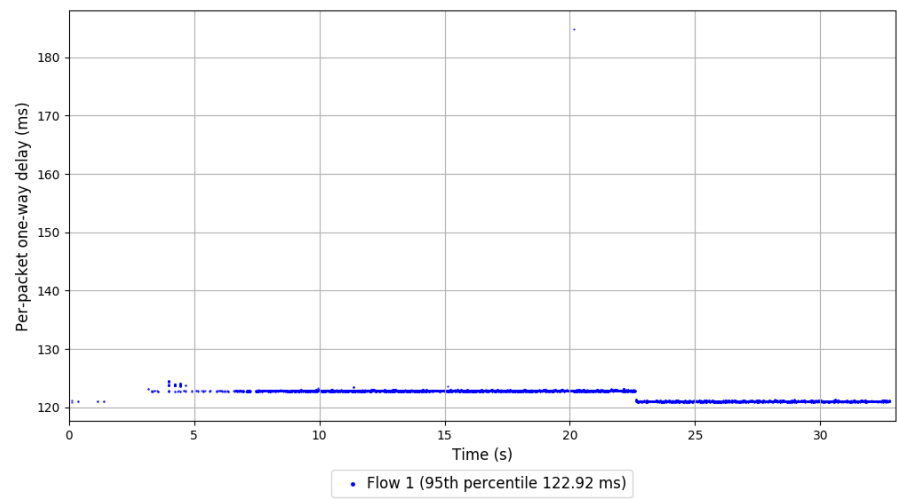
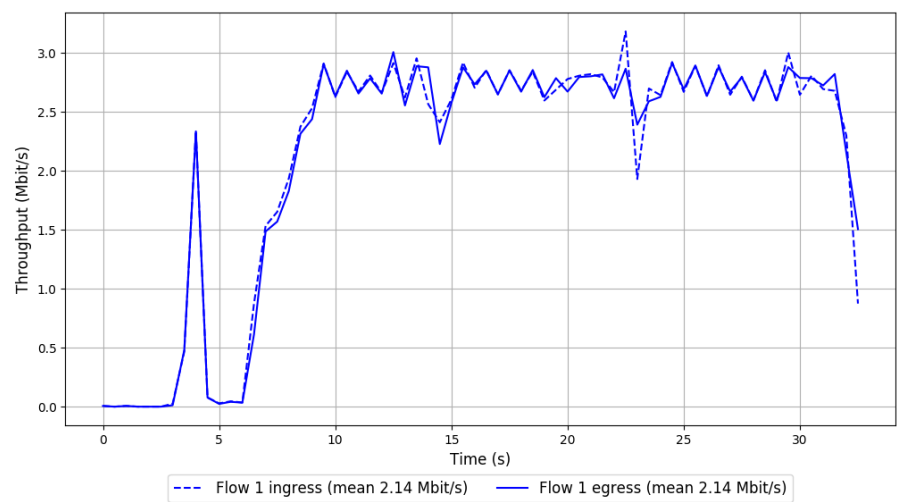


```
Run 1: Statistics of WebRTC media

Start at: 2018-01-30 13:33:15
End at: 2018-01-30 13:33:45

# Below is generated by plot.py at 2018-01-30 17:01:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.14 Mbit/s
95th percentile per-packet one-way delay: 122.923 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.14 Mbit/s
95th percentile per-packet one-way delay: 122.923 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-01-30 13:47:46

End at: 2018-01-30 13:48:16

Below is generated by plot.py at 2018-01-30 17:01:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 126.108 ms

Loss rate: 0.00%

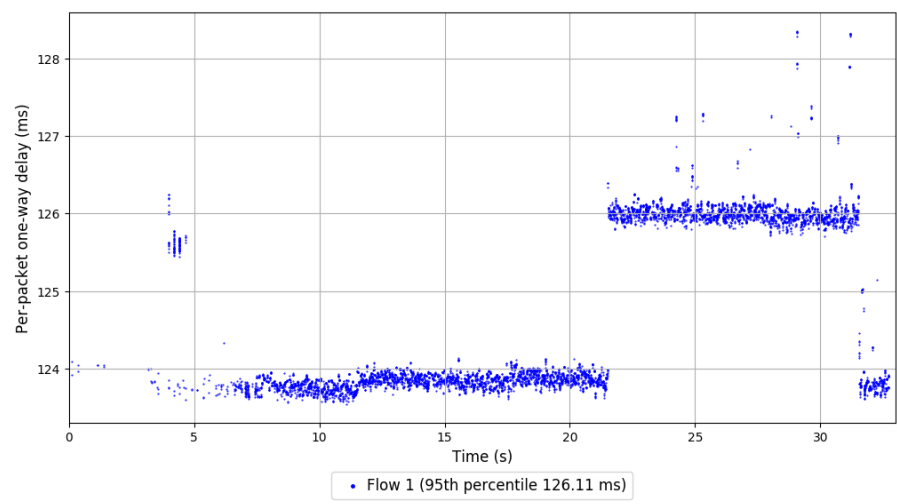
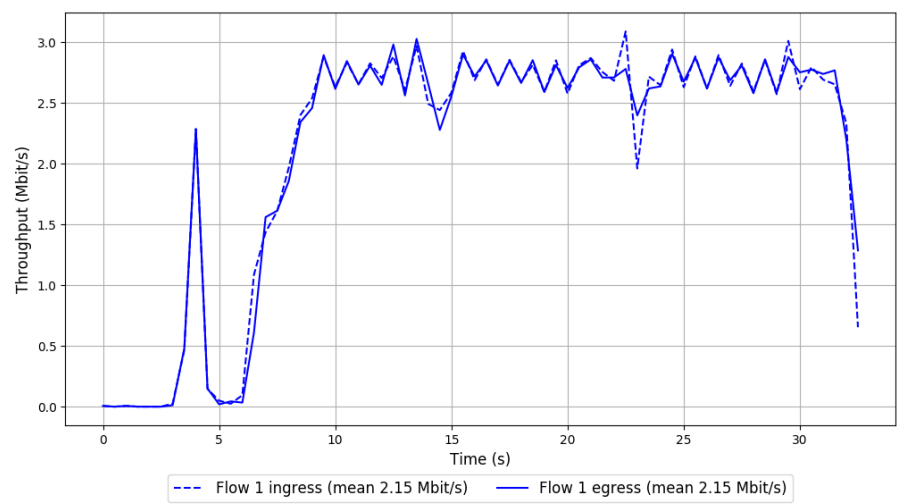
-- Flow 1:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 126.108 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-01-30 14:02:32

End at: 2018-01-30 14:03:02

Below is generated by plot.py at 2018-01-30 17:01:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 122.898 ms

Loss rate: 0.00%

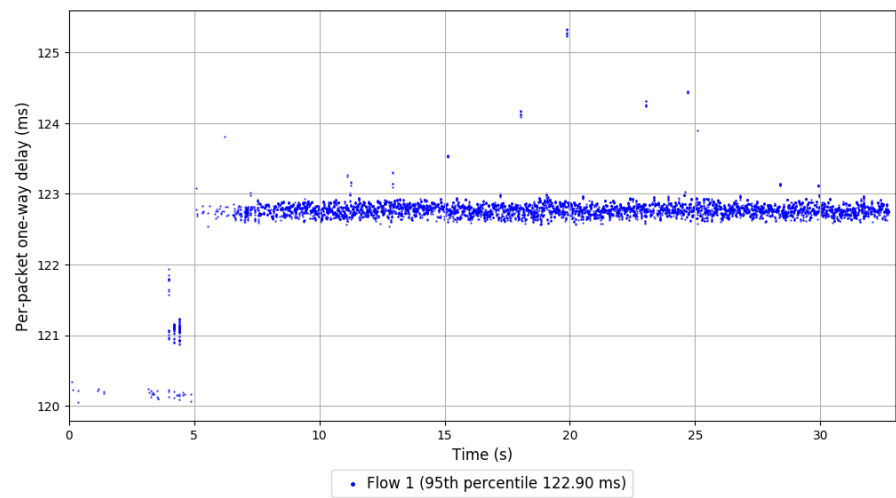
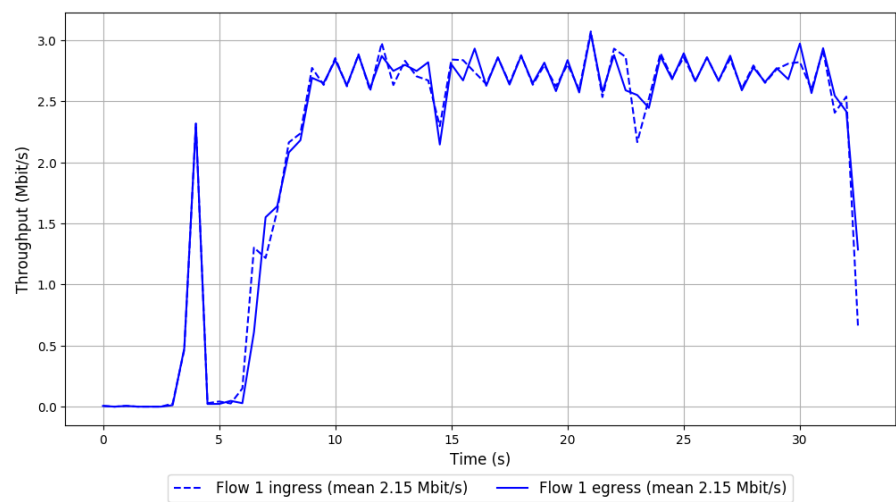
-- Flow 1:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 122.898 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-01-30 14:17:51

End at: 2018-01-30 14:18:21

Below is generated by plot.py at 2018-01-30 17:01:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 124.514 ms

Loss rate: 0.00%

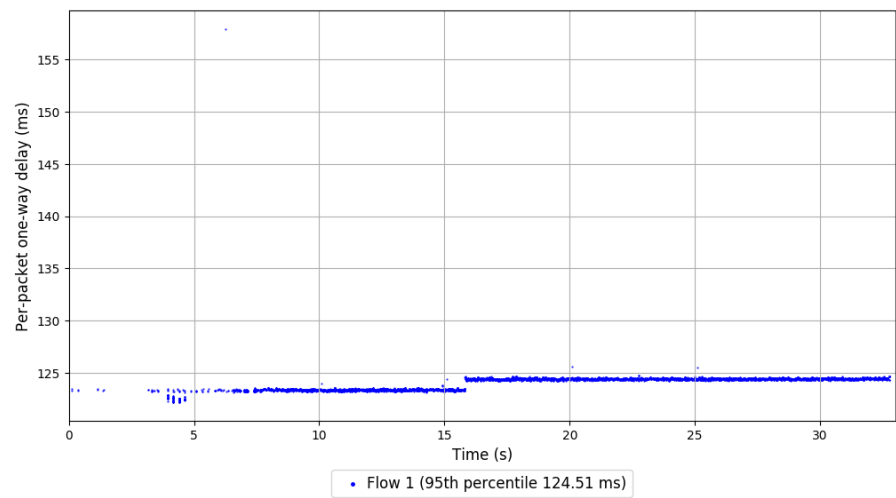
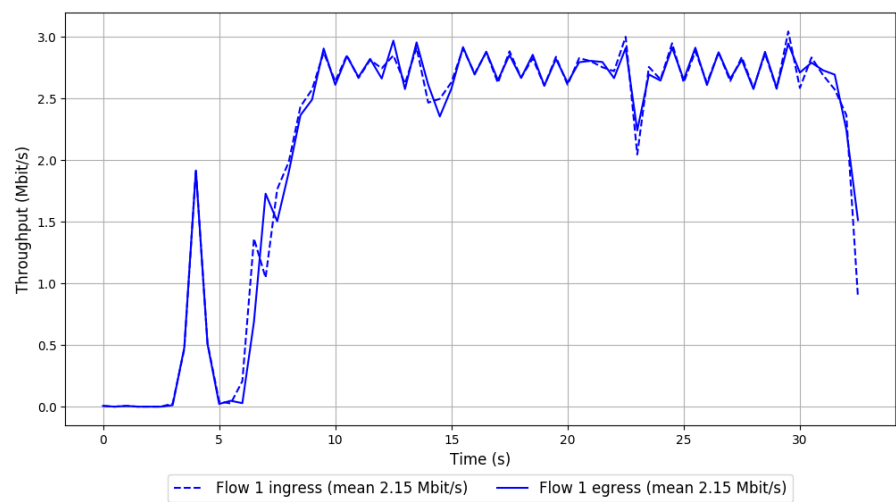
-- Flow 1:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 124.514 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-01-30 14:32:56

End at: 2018-01-30 14:33:26

Below is generated by plot.py at 2018-01-30 17:01:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 119.151 ms

Loss rate: 0.00%

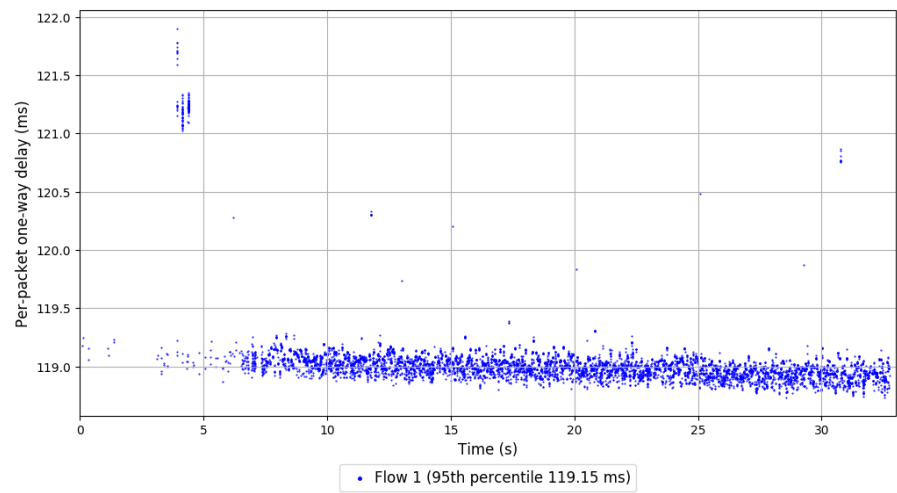
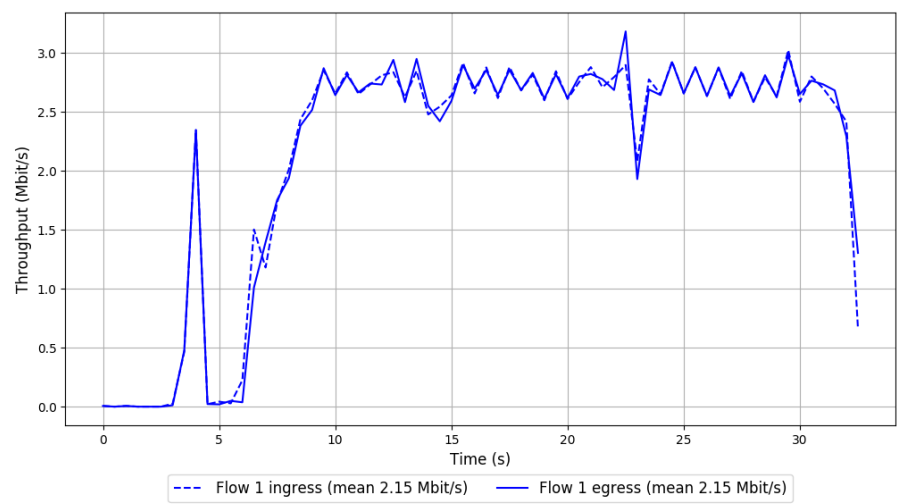
-- Flow 1:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 119.151 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-01-30 14:48:04

End at: 2018-01-30 14:48:34

Below is generated by plot.py at 2018-01-30 17:01:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 116.752 ms

Loss rate: 0.00%

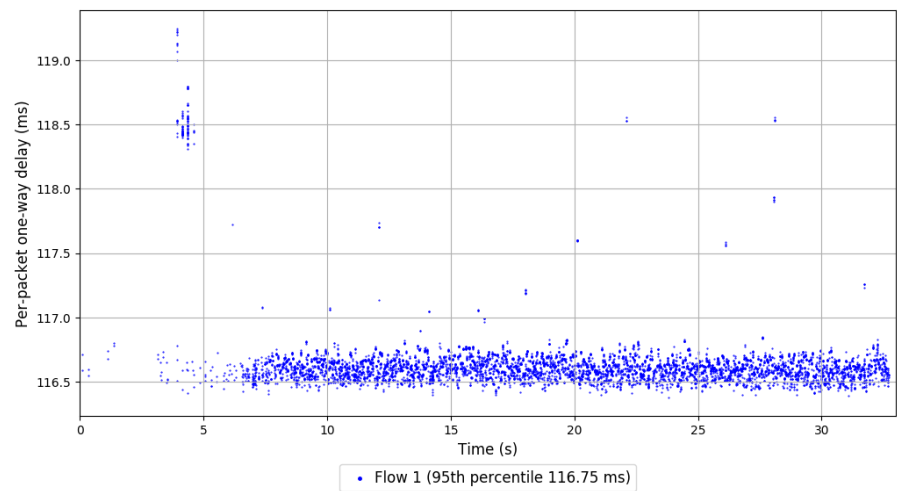
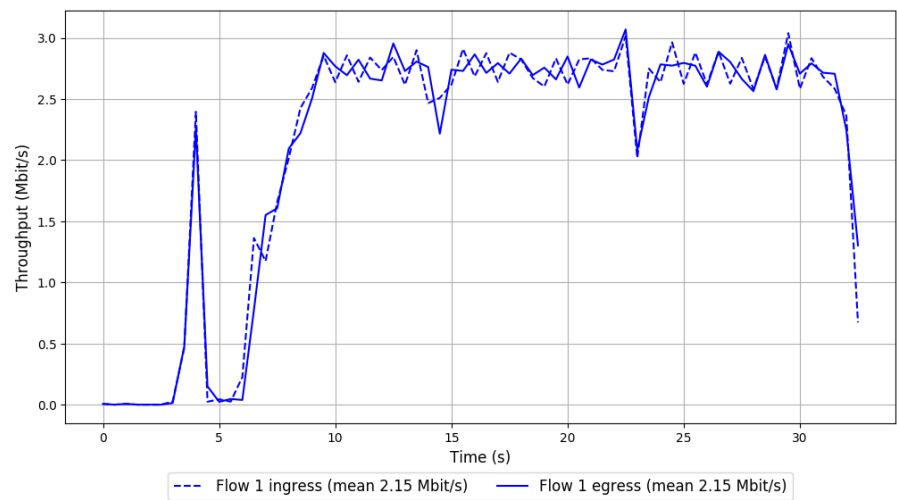
-- Flow 1:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 116.752 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-01-30 15:03:26

End at: 2018-01-30 15:03:56

Below is generated by plot.py at 2018-01-30 17:01:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 116.606 ms

Loss rate: 0.00%

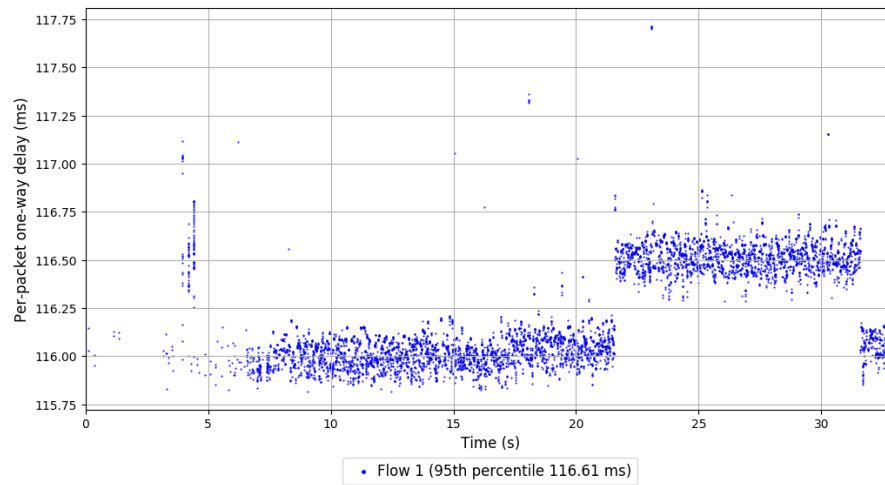
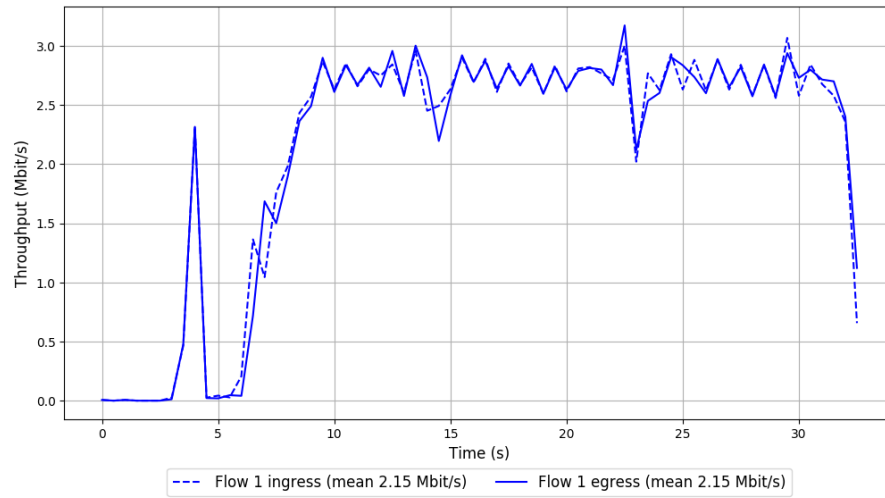
-- Flow 1:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 116.606 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-01-30 15:18:06

End at: 2018-01-30 15:18:36

Below is generated by plot.py at 2018-01-30 17:01:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 115.440 ms

Loss rate: 0.00%

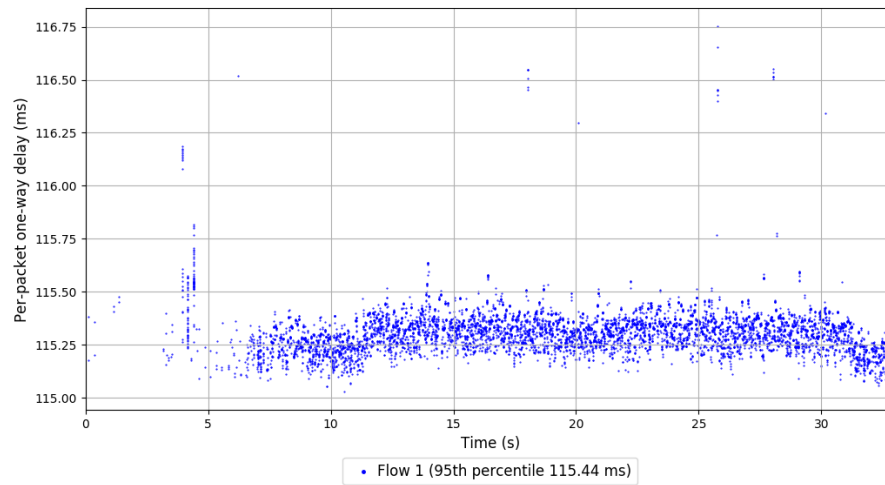
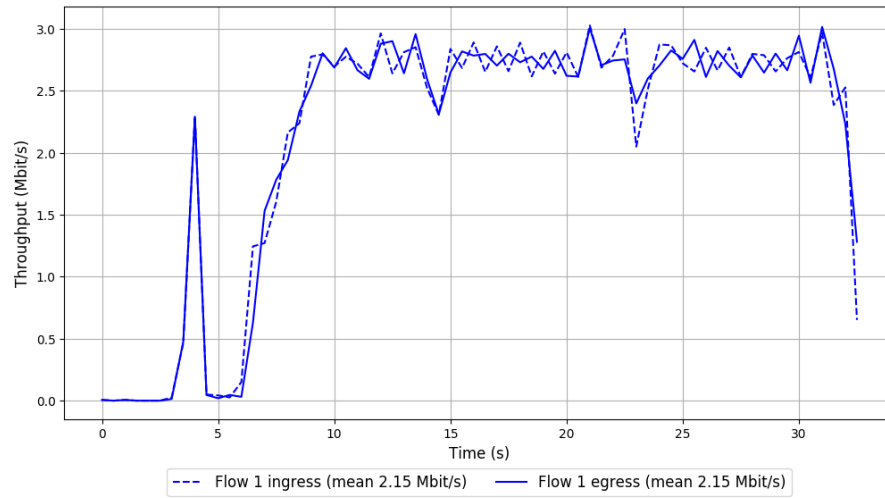
-- Flow 1:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 115.440 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-01-30 15:32:37

End at: 2018-01-30 15:33:07

Below is generated by plot.py at 2018-01-30 17:01:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 114.764 ms

Loss rate: 0.00%

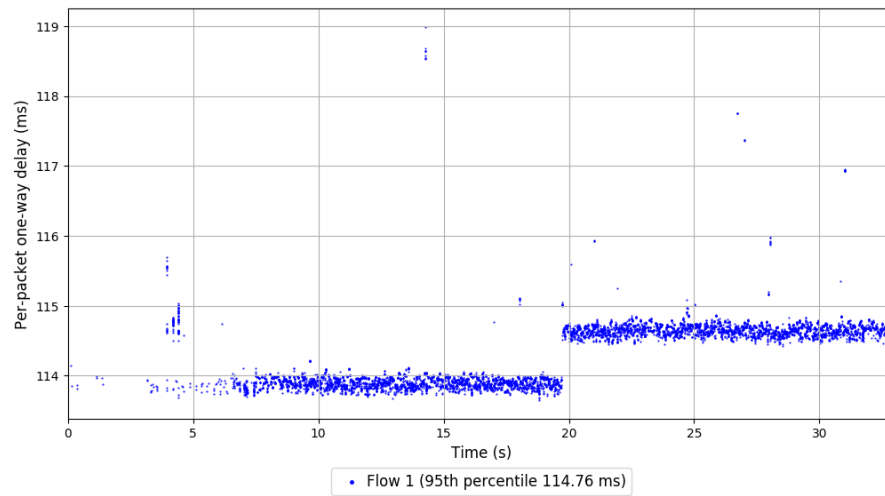
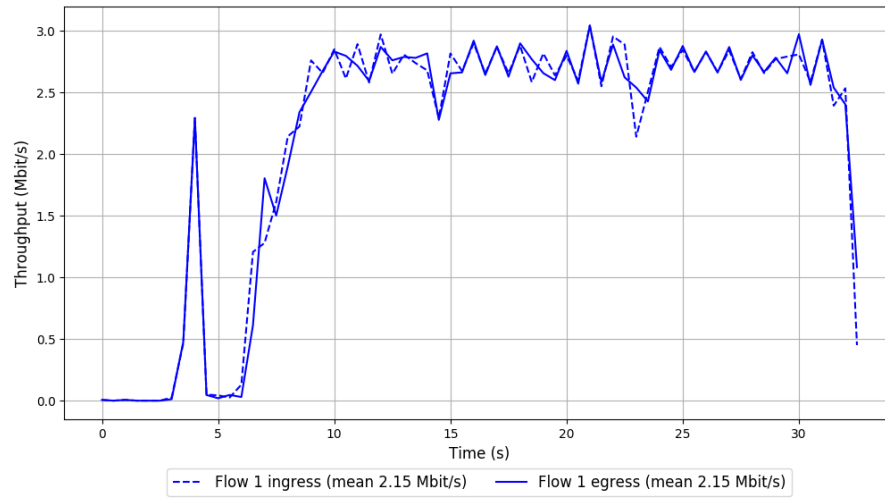
-- Flow 1:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 114.764 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-01-30 15:47:12

End at: 2018-01-30 15:47:42

Below is generated by plot.py at 2018-01-30 17:01:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.15 Mbit/s

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

Loss rate: 0.00%

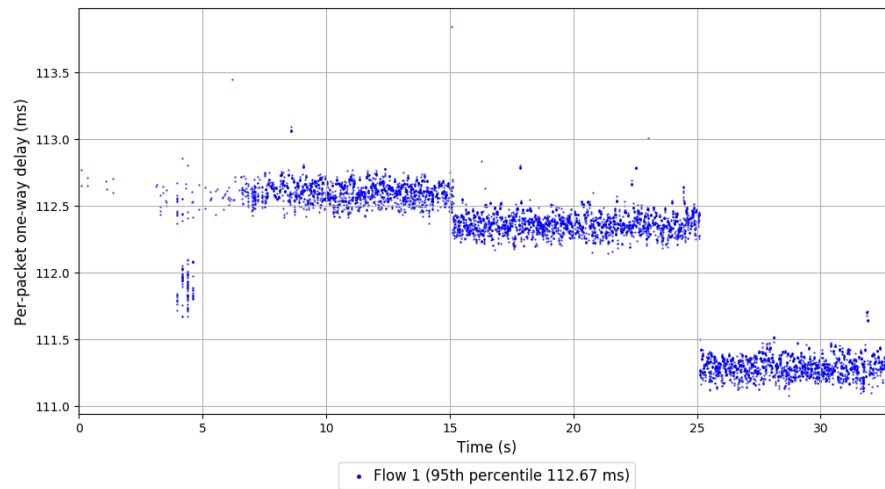
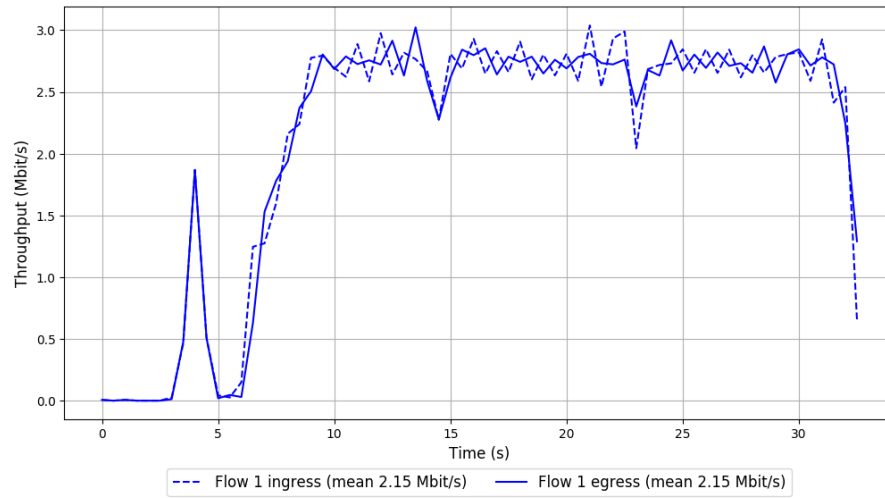
-- Flow 1:

Average throughput: 2.15 Mbit/s

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

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2018-01-30 13:28:19

End at: 2018-01-30 13:28:49

Below is generated by plot.py at 2018-01-30 17:01:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.46 Mbit/s

95th percentile per-packet one-way delay: 126.216 ms

Loss rate: 0.14%

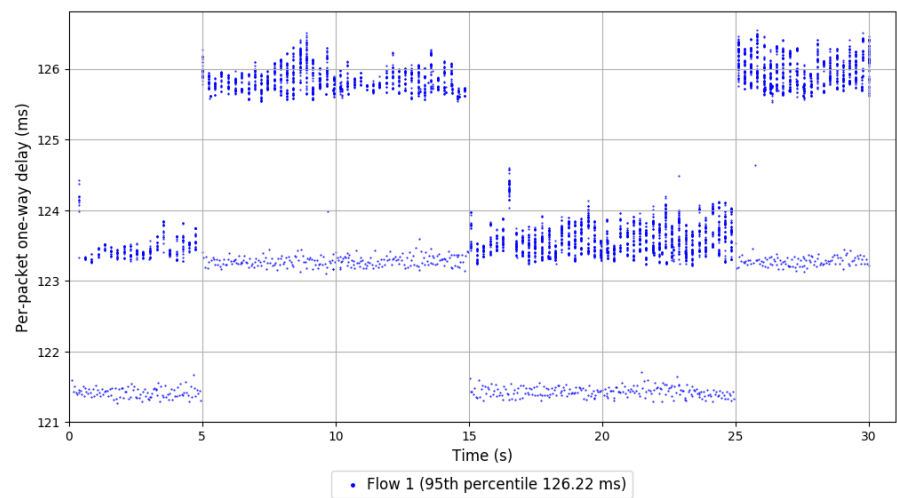
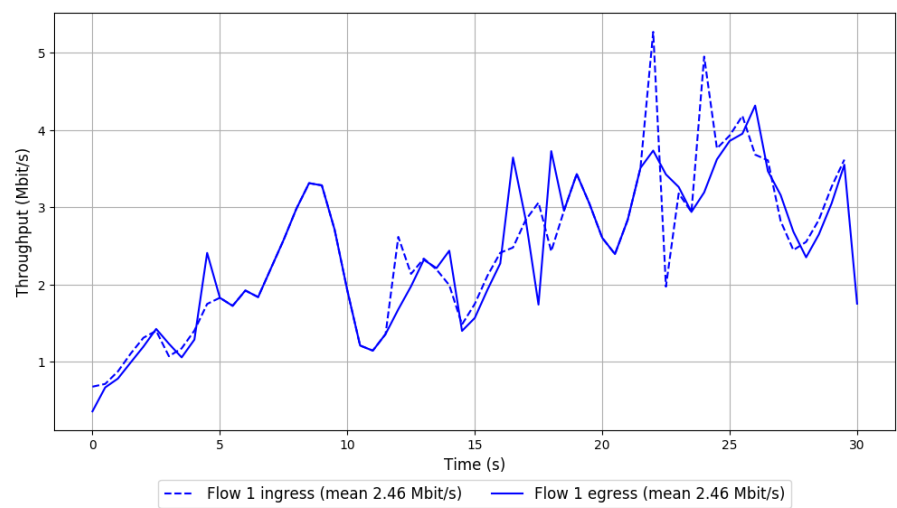
-- Flow 1:

Average throughput: 2.46 Mbit/s

95th percentile per-packet one-way delay: 126.216 ms

Loss rate: 0.14%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-01-30 13:42:57

End at: 2018-01-30 13:43:27

Below is generated by plot.py at 2018-01-30 17:01:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.92 Mbit/s

95th percentile per-packet one-way delay: 128.325 ms

Loss rate: 0.00%

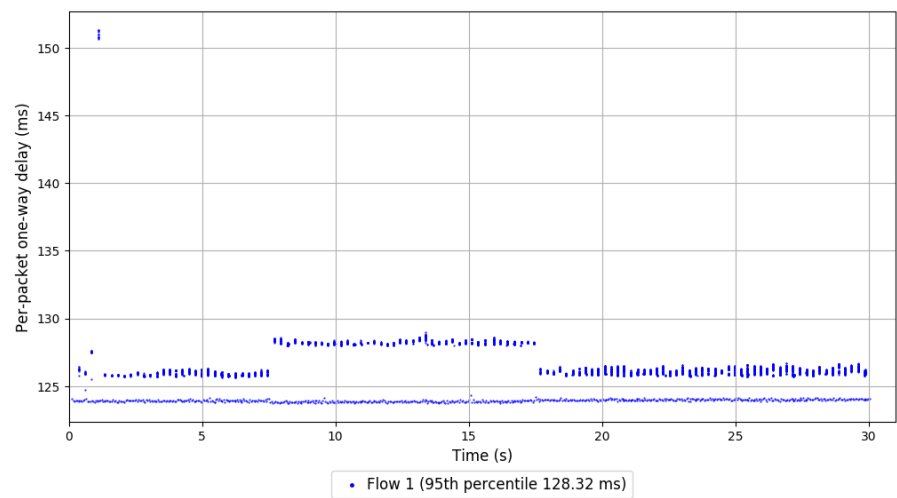
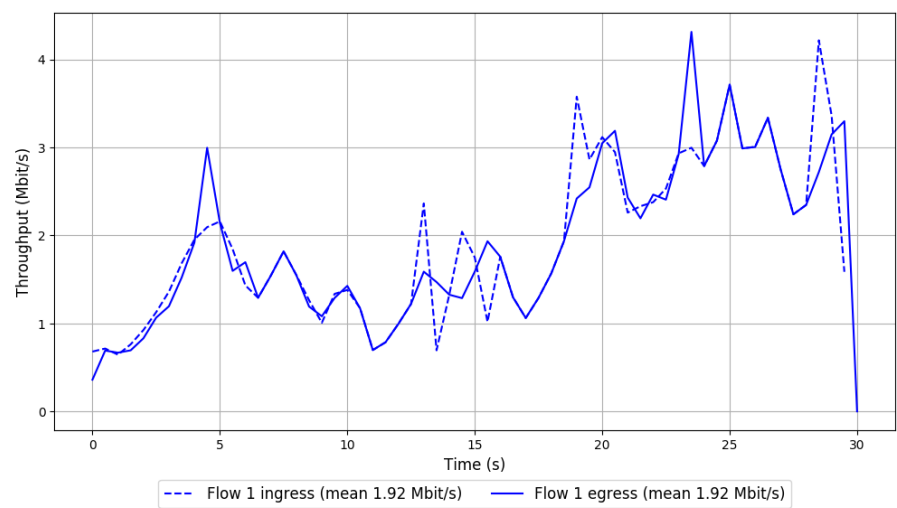
-- Flow 1:

Average throughput: 1.92 Mbit/s

95th percentile per-packet one-way delay: 128.325 ms

Loss rate: 0.00%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-01-30 13:57:24

End at: 2018-01-30 13:57:54

Below is generated by plot.py at 2018-01-30 17:01:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.08 Mbit/s

95th percentile per-packet one-way delay: 123.829 ms

Loss rate: 0.00%

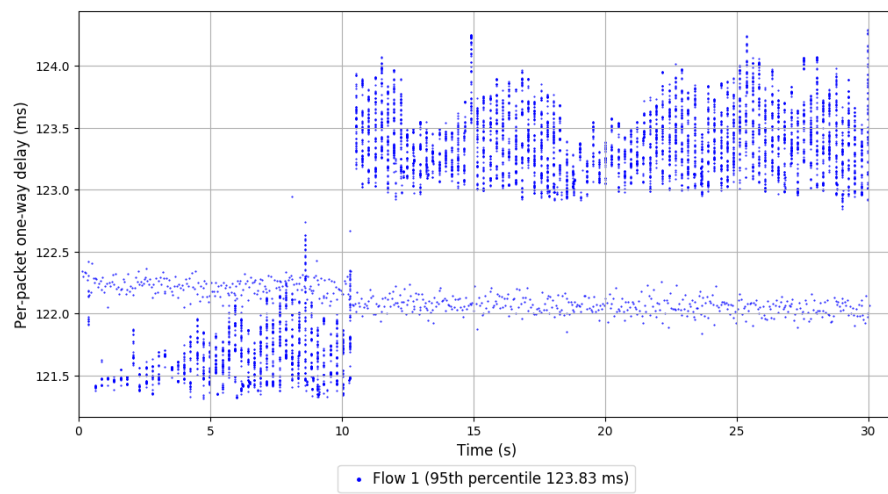
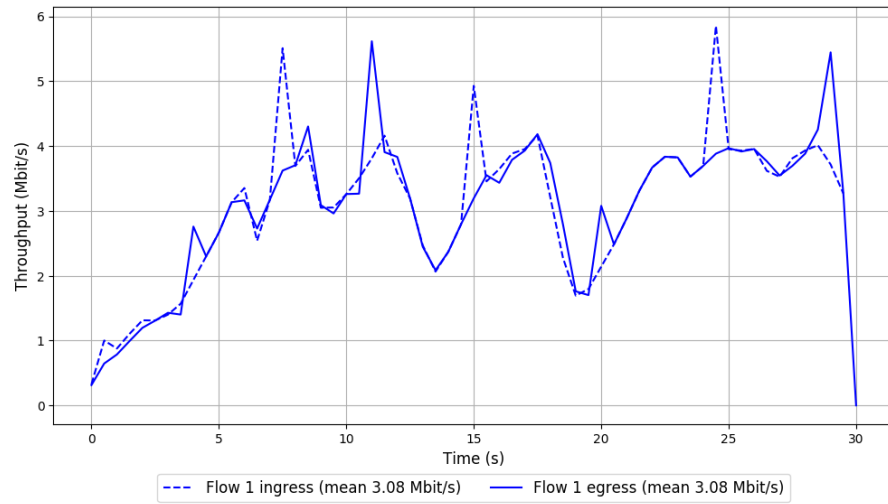
-- Flow 1:

Average throughput: 3.08 Mbit/s

95th percentile per-packet one-way delay: 123.829 ms

Loss rate: 0.00%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-01-30 14:12:45

End at: 2018-01-30 14:13:15

Below is generated by plot.py at 2018-01-30 17:01:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.62 Mbit/s

95th percentile per-packet one-way delay: 123.714 ms

Loss rate: 0.15%

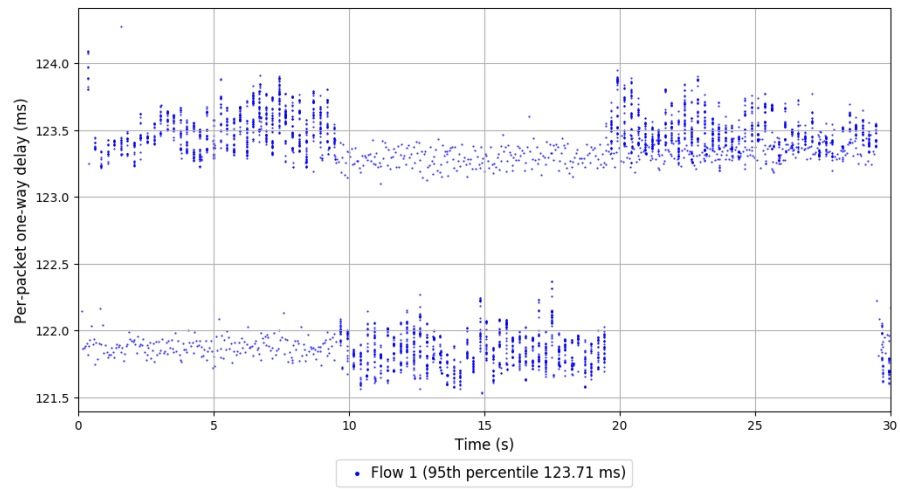
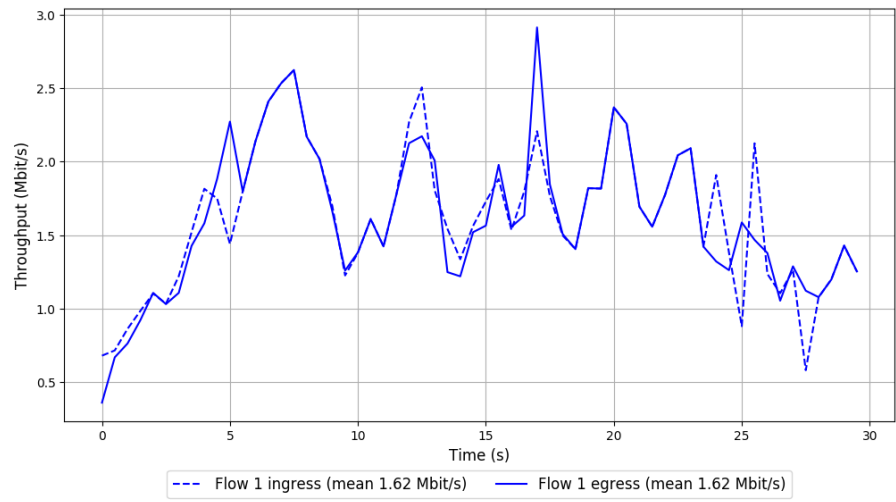
-- Flow 1:

Average throughput: 1.62 Mbit/s

95th percentile per-packet one-way delay: 123.714 ms

Loss rate: 0.15%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-01-30 14:27:50

End at: 2018-01-30 14:28:20

Below is generated by plot.py at 2018-01-30 17:01:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.87 Mbit/s

95th percentile per-packet one-way delay: 123.295 ms

Loss rate: 0.01%

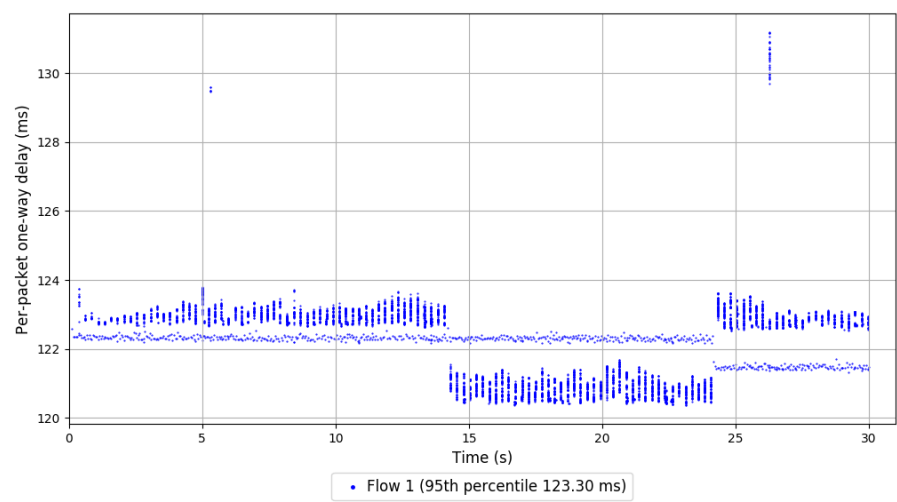
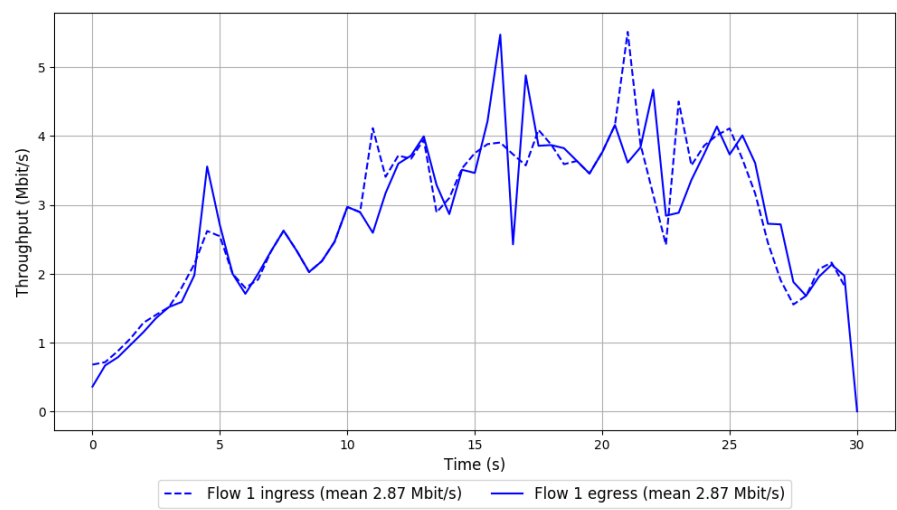
-- Flow 1:

Average throughput: 2.87 Mbit/s

95th percentile per-packet one-way delay: 123.295 ms

Loss rate: 0.01%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-01-30 14:42:56

End at: 2018-01-30 14:43:26

Below is generated by plot.py at 2018-01-30 17:01:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.18 Mbit/s

95th percentile per-packet one-way delay: 119.610 ms

Loss rate: 0.02%

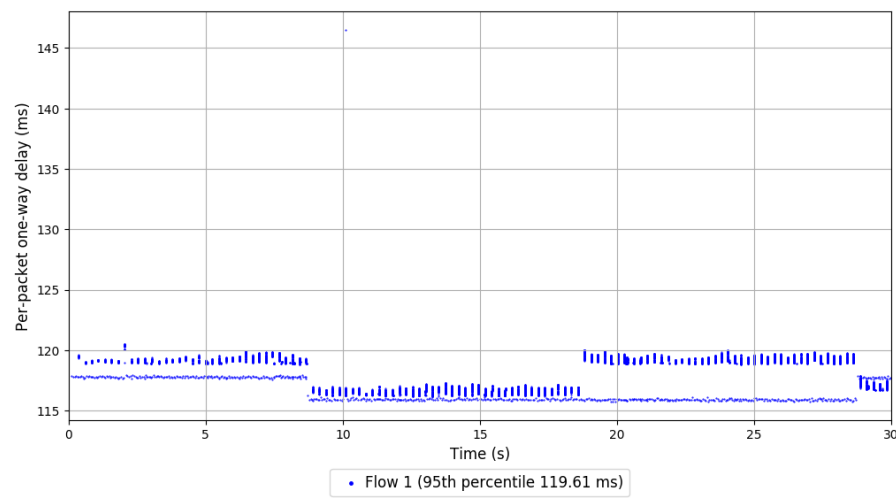
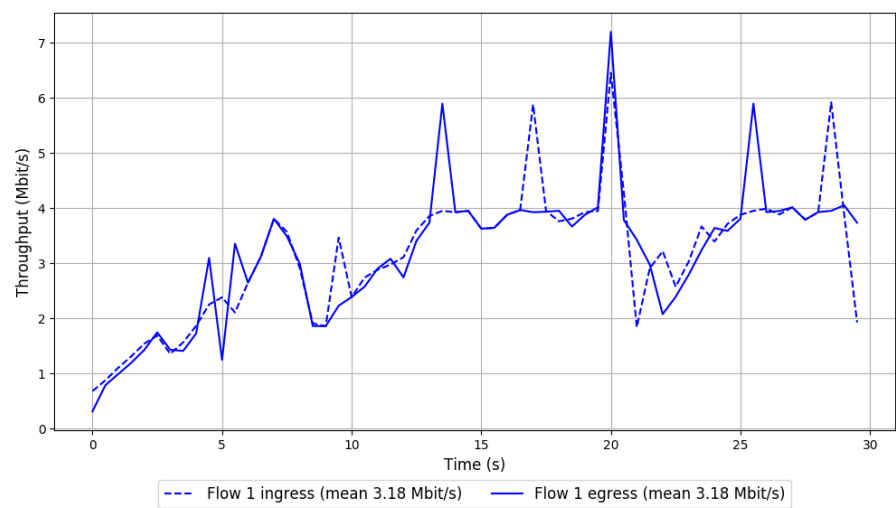
-- Flow 1:

Average throughput: 3.18 Mbit/s

95th percentile per-packet one-way delay: 119.610 ms

Loss rate: 0.02%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-01-30 14:58:14

End at: 2018-01-30 14:58:44

Below is generated by plot.py at 2018-01-30 17:01:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.84 Mbit/s

95th percentile per-packet one-way delay: 117.037 ms

Loss rate: 0.04%

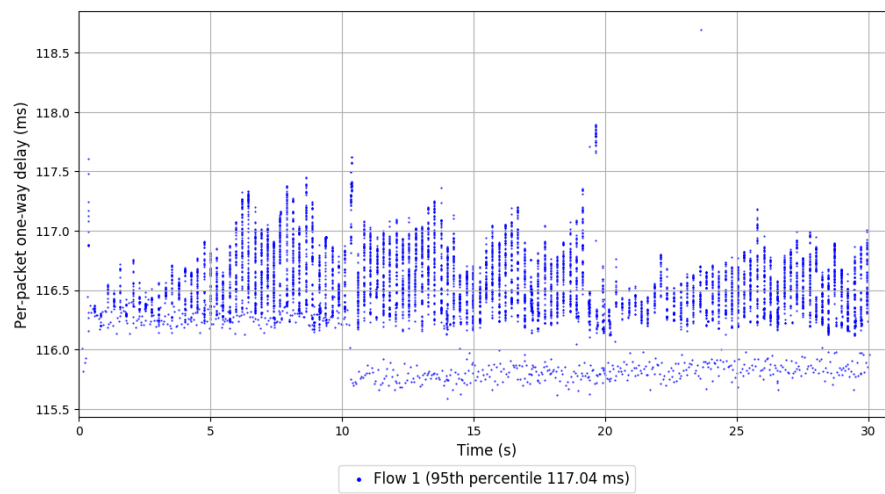
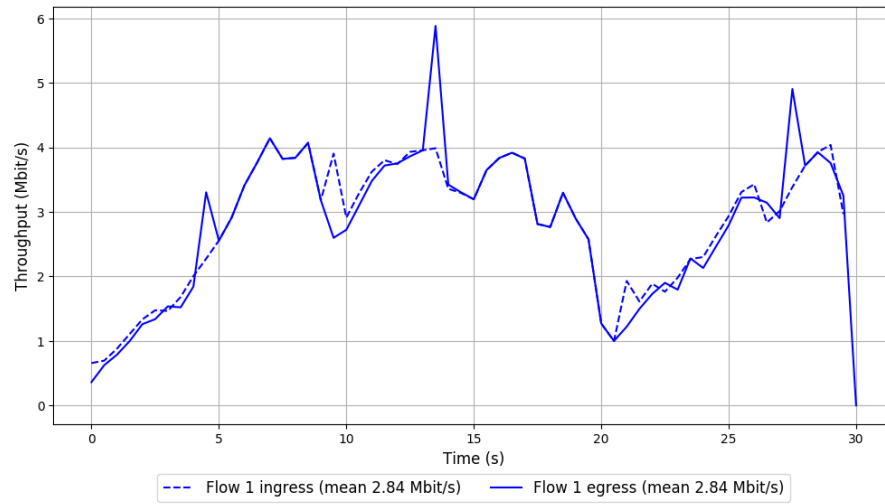
-- Flow 1:

Average throughput: 2.84 Mbit/s

95th percentile per-packet one-way delay: 117.037 ms

Loss rate: 0.04%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-01-30 15:12:59

End at: 2018-01-30 15:13:29

Below is generated by plot.py at 2018-01-30 17:01:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.90 Mbit/s

95th percentile per-packet one-way delay: 115.249 ms

Loss rate: 0.00%

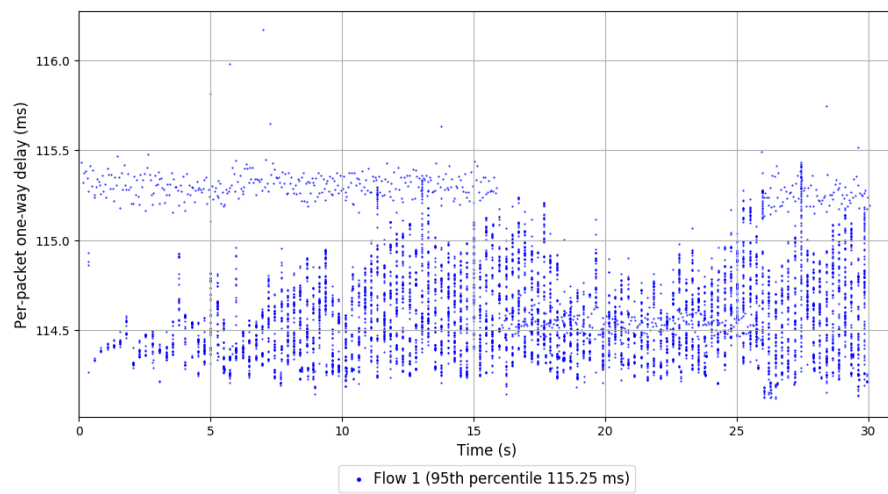
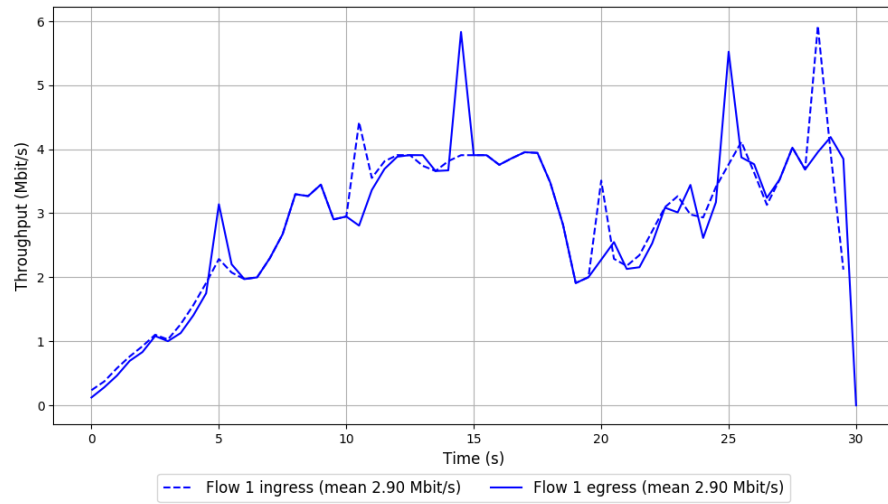
-- Flow 1:

Average throughput: 2.90 Mbit/s

95th percentile per-packet one-way delay: 115.249 ms

Loss rate: 0.00%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-01-30 15:27:33

End at: 2018-01-30 15:28:03

Below is generated by plot.py at 2018-01-30 17:01:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.86 Mbit/s

95th percentile per-packet one-way delay: 113.486 ms

Loss rate: 0.00%

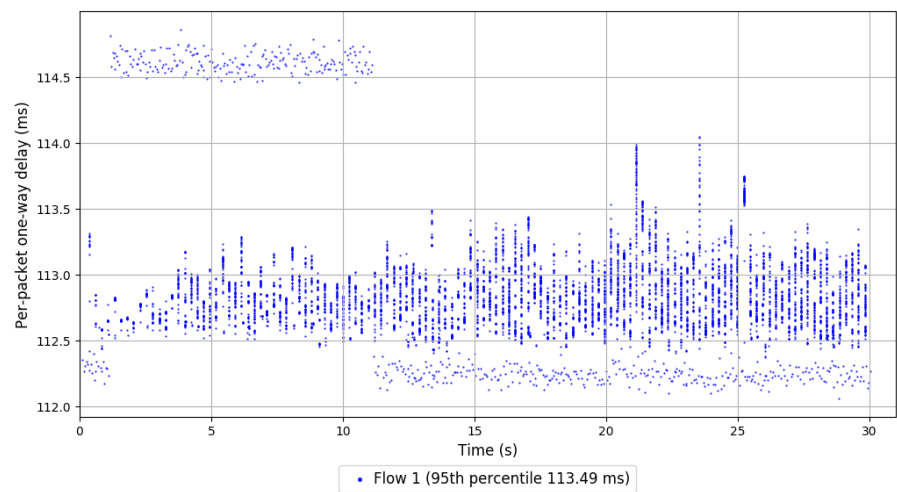
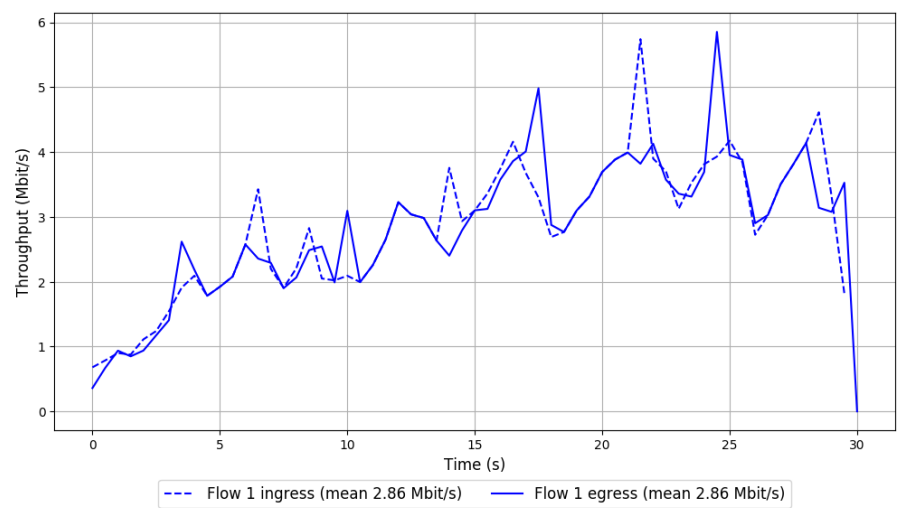
-- Flow 1:

Average throughput: 2.86 Mbit/s

95th percentile per-packet one-way delay: 113.486 ms

Loss rate: 0.00%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-01-30 15:42:08

End at: 2018-01-30 15:42:38

Below is generated by plot.py at 2018-01-30 17:01:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.10 Mbit/s

95th percentile per-packet one-way delay: 114.767 ms

Loss rate: 0.00%

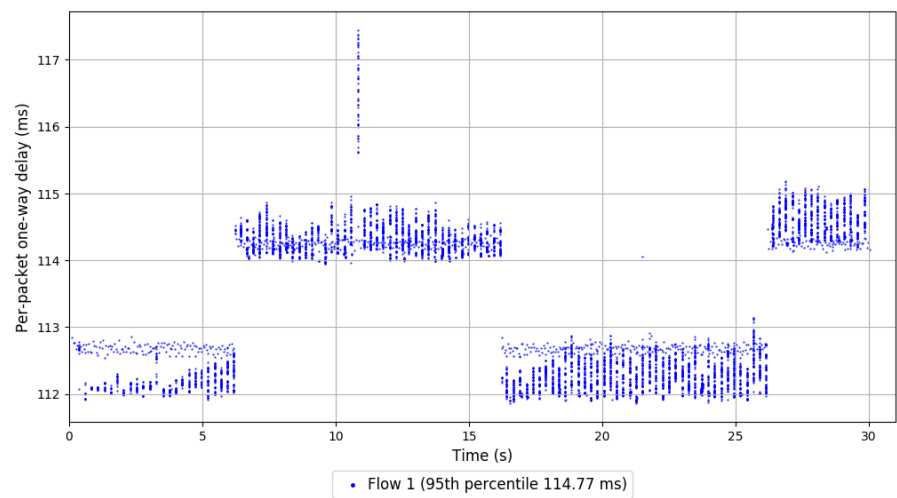
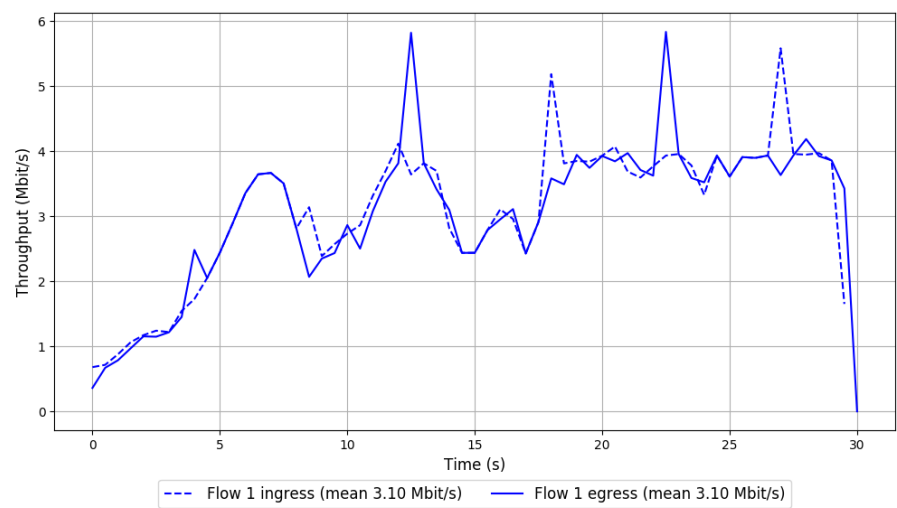
-- Flow 1:

Average throughput: 3.10 Mbit/s

95th percentile per-packet one-way delay: 114.767 ms

Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

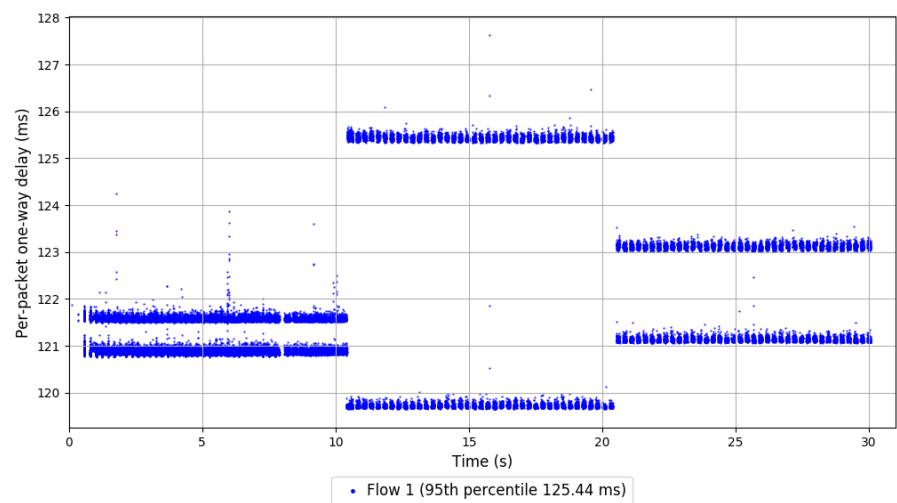
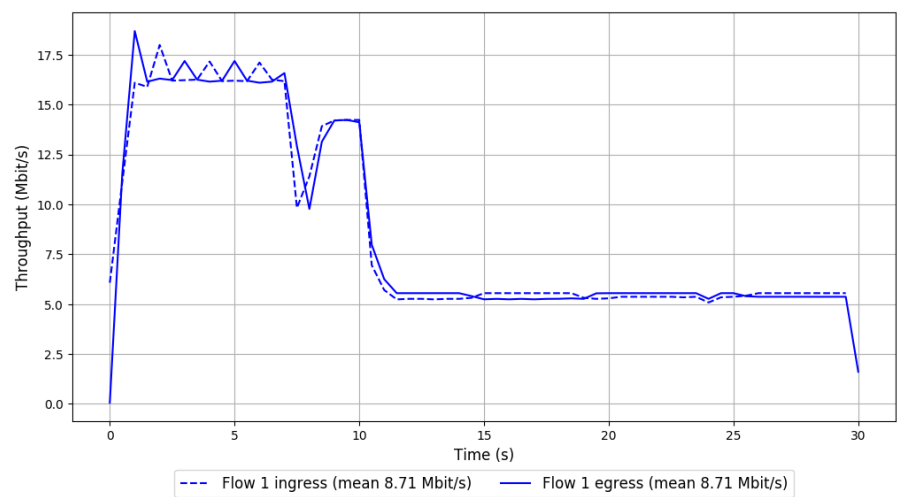


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-01-30 13:25:04
End at: 2018-01-30 13:25:34

# Below is generated by plot.py at 2018-01-30 17:01:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 8.71 Mbit/s
95th percentile per-packet one-way delay: 125.435 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 8.71 Mbit/s
95th percentile per-packet one-way delay: 125.435 ms
Loss rate: 0.00%
```

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

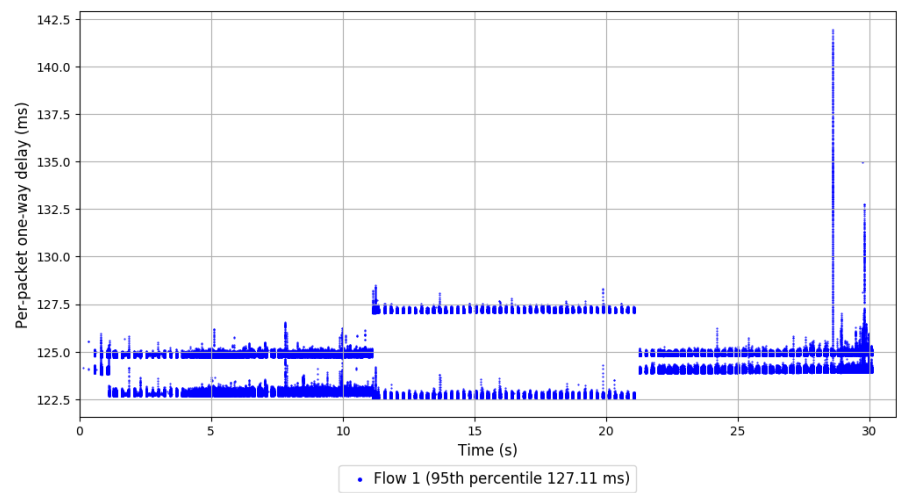
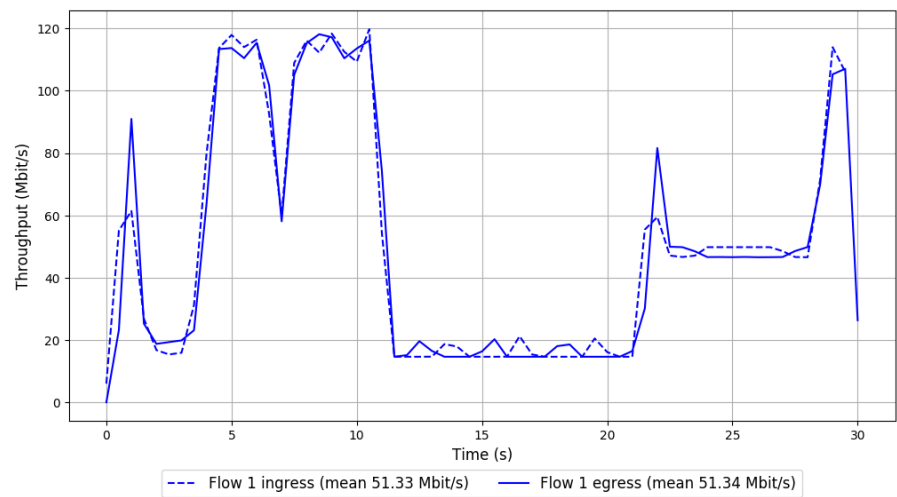


```
Run 2: Statistics of TaoVA-100x

Start at: 2018-01-30 13:39:33
End at: 2018-01-30 13:40:03

# Below is generated by plot.py at 2018-01-30 17:01:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 51.34 Mbit/s
95th percentile per-packet one-way delay: 127.105 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 51.34 Mbit/s
95th percentile per-packet one-way delay: 127.105 ms
Loss rate: 0.01%
```

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-01-30 13:54:01

End at: 2018-01-30 13:54:31

Below is generated by plot.py at 2018-01-30 17:01:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 16.13 Mbit/s

95th percentile per-packet one-way delay: 124.012 ms

Loss rate: 0.01%

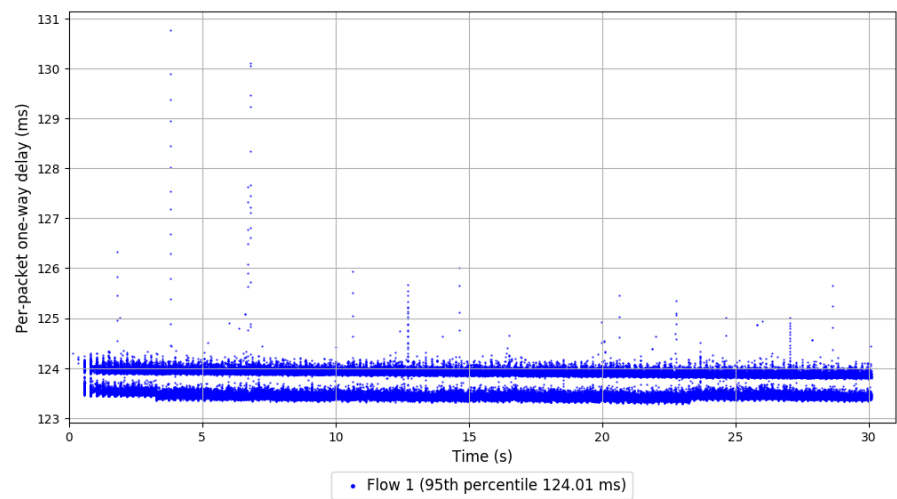
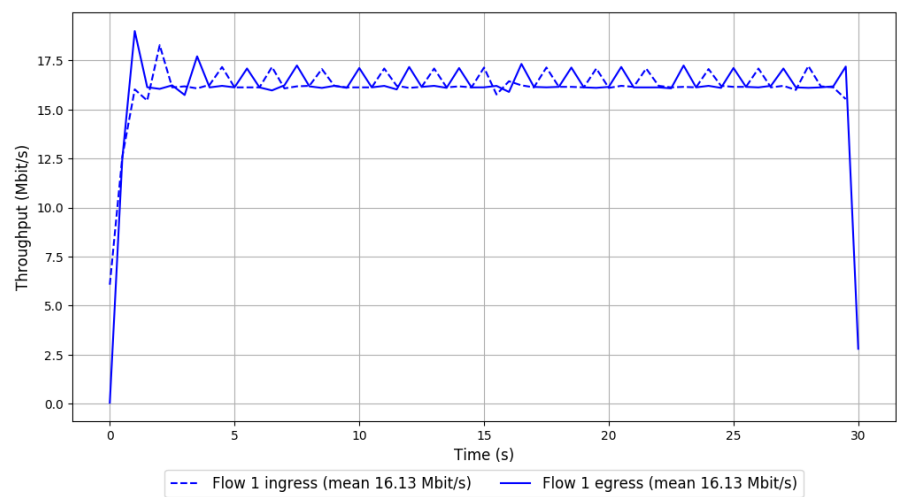
-- Flow 1:

Average throughput: 16.13 Mbit/s

95th percentile per-packet one-way delay: 124.012 ms

Loss rate: 0.01%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-01-30 14:09:03

End at: 2018-01-30 14:09:33

Below is generated by plot.py at 2018-01-30 17:01:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 224.04 Mbit/s

95th percentile per-packet one-way delay: 122.869 ms

Loss rate: 0.01%

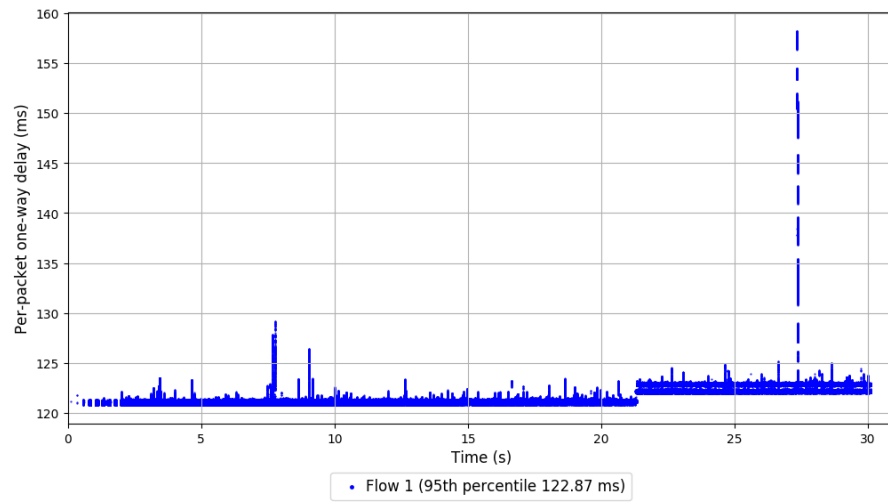
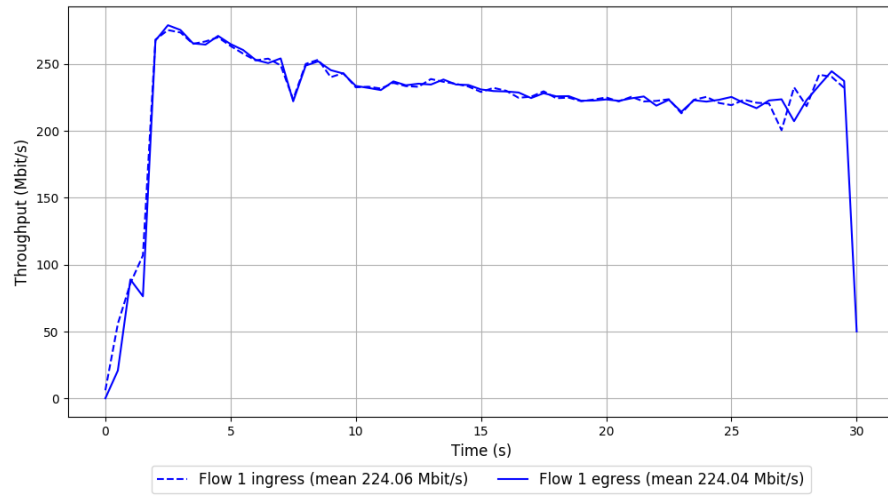
-- Flow 1:

Average throughput: 224.04 Mbit/s

95th percentile per-packet one-way delay: 122.869 ms

Loss rate: 0.01%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-01-30 14:24:19

End at: 2018-01-30 14:24:49

Below is generated by plot.py at 2018-01-30 17:01:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 126.16 Mbit/s

95th percentile per-packet one-way delay: 123.619 ms

Loss rate: 0.00%

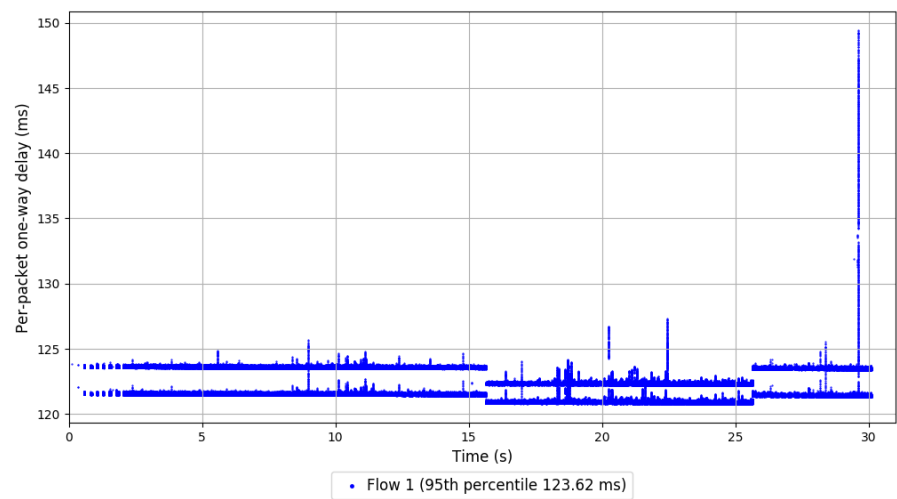
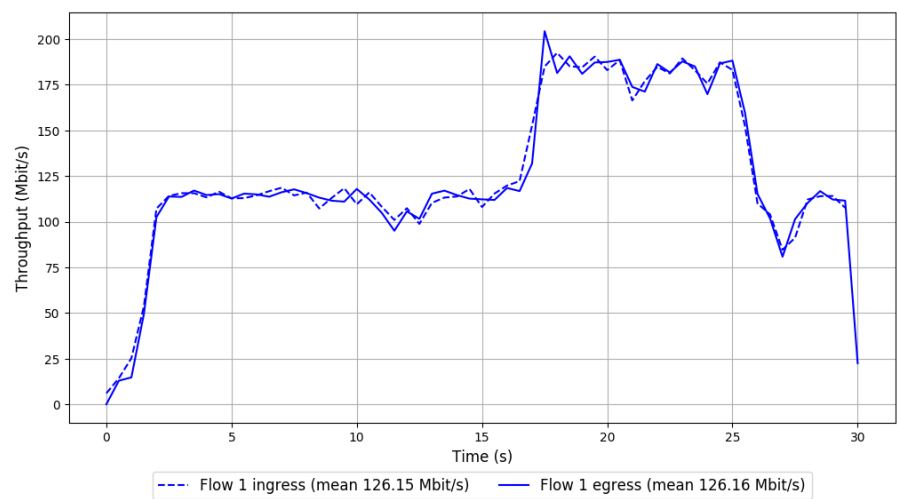
-- Flow 1:

Average throughput: 126.16 Mbit/s

95th percentile per-packet one-way delay: 123.619 ms

Loss rate: 0.00%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-01-30 14:39:32

End at: 2018-01-30 14:40:02

Below is generated by plot.py at 2018-01-30 17:01:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.35 Mbit/s

95th percentile per-packet one-way delay: 119.410 ms

Loss rate: 0.00%

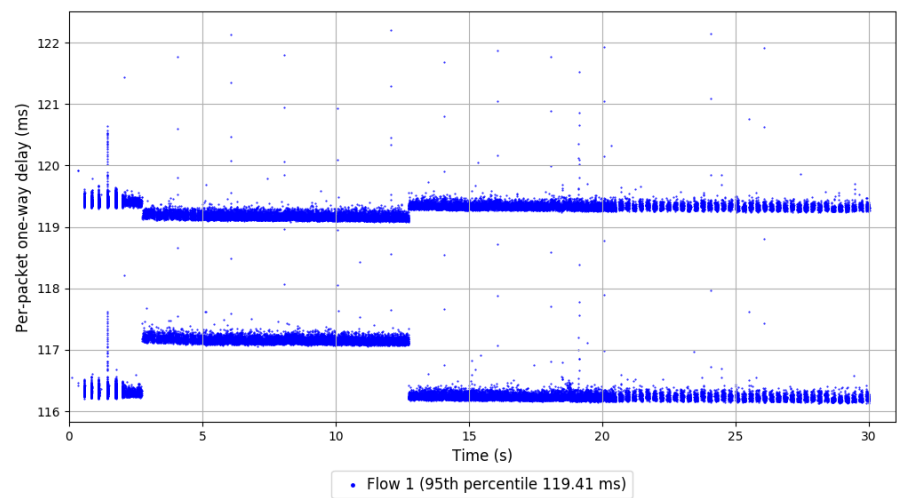
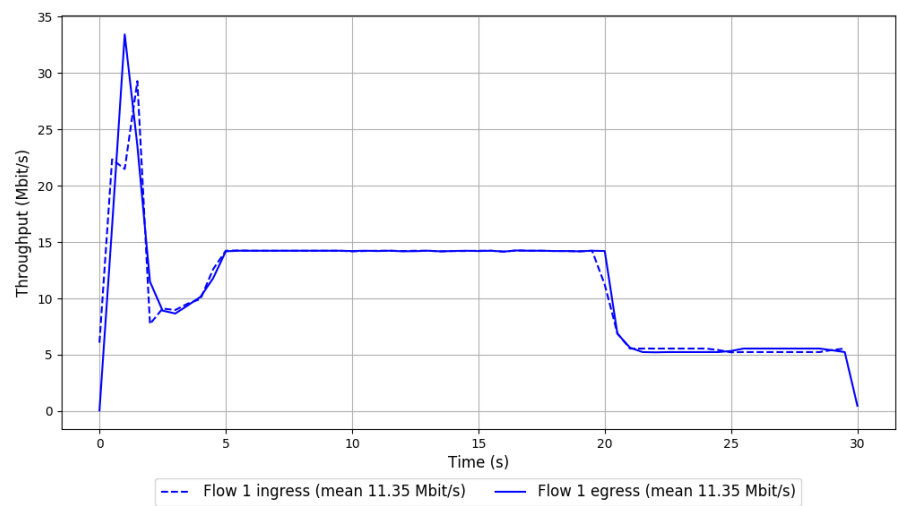
-- Flow 1:

Average throughput: 11.35 Mbit/s

95th percentile per-packet one-way delay: 119.410 ms

Loss rate: 0.00%

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

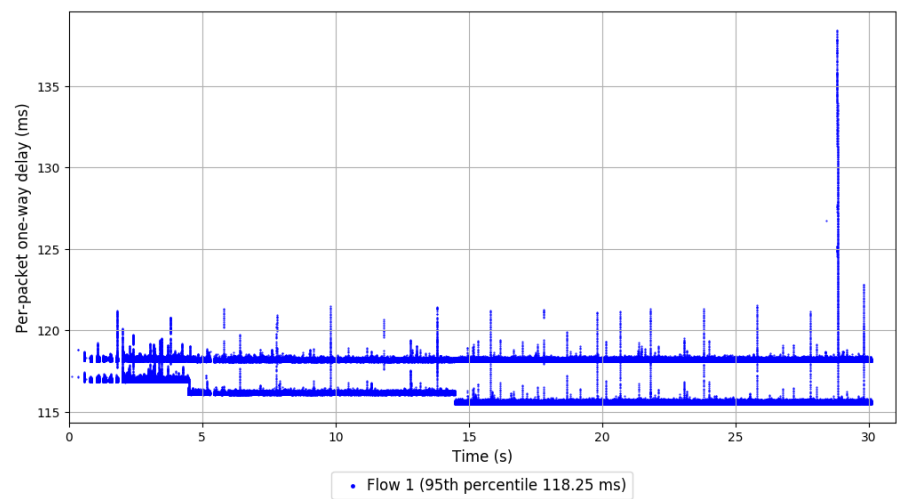
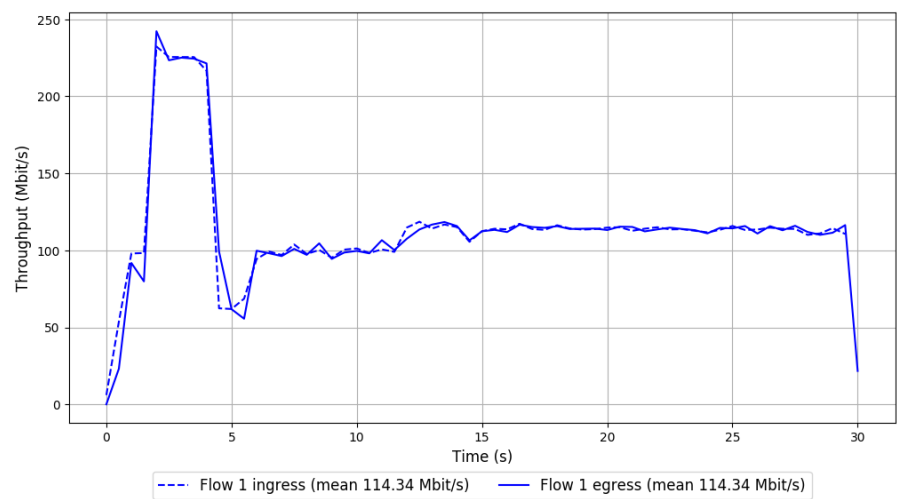


```
Run 7: Statistics of TaoVA-100x

Start at: 2018-01-30 14:54:40
End at: 2018-01-30 14:55:10

# Below is generated by plot.py at 2018-01-30 17:01:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 114.34 Mbit/s
95th percentile per-packet one-way delay: 118.253 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 114.34 Mbit/s
95th percentile per-packet one-way delay: 118.253 ms
Loss rate: 0.00%
```

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

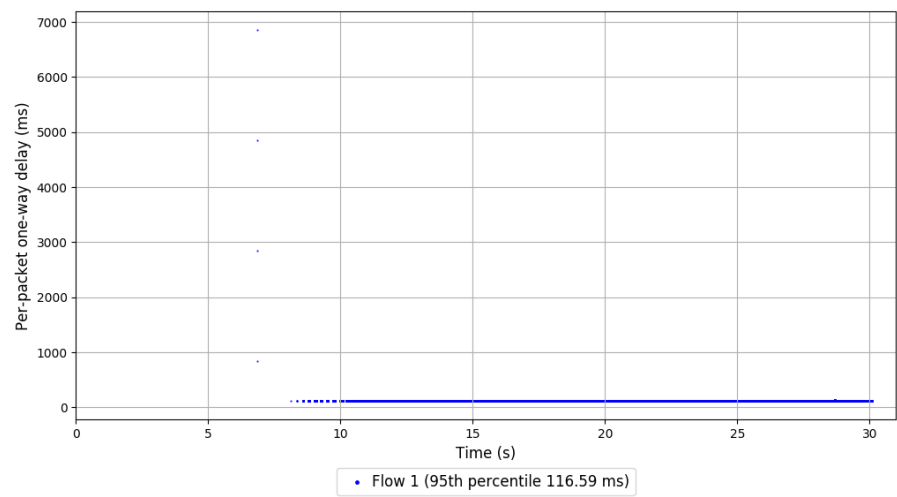
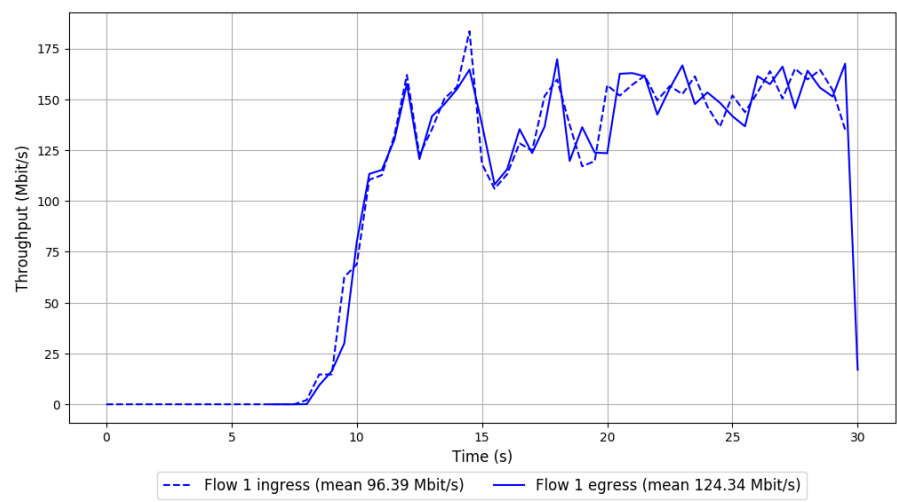


Run 8: Statistics of TaoVA-100x

Start at: 2018-01-30 15:09:37

End at: 2018-01-30 15:10:07

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-01-30 15:24:15

End at: 2018-01-30 15:24:45

Below is generated by plot.py at 2018-01-30 17:01:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.79 Mbit/s

95th percentile per-packet one-way delay: 114.904 ms

Loss rate: 0.00%

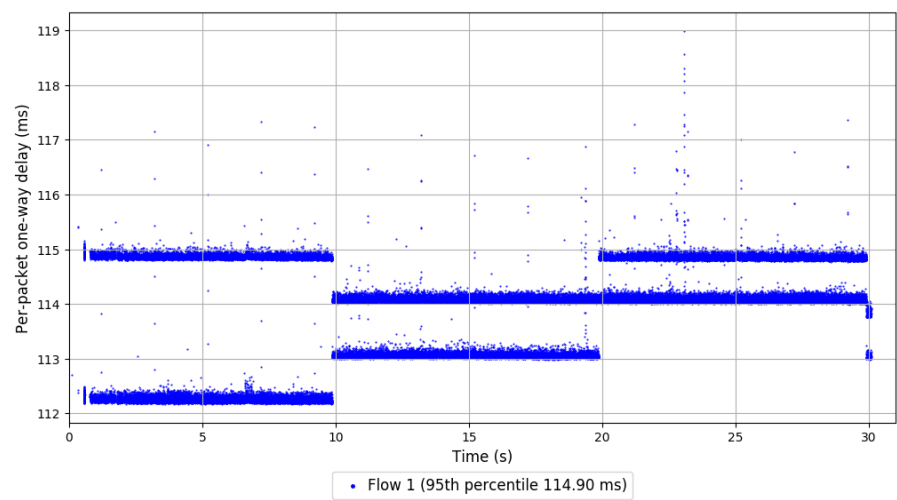
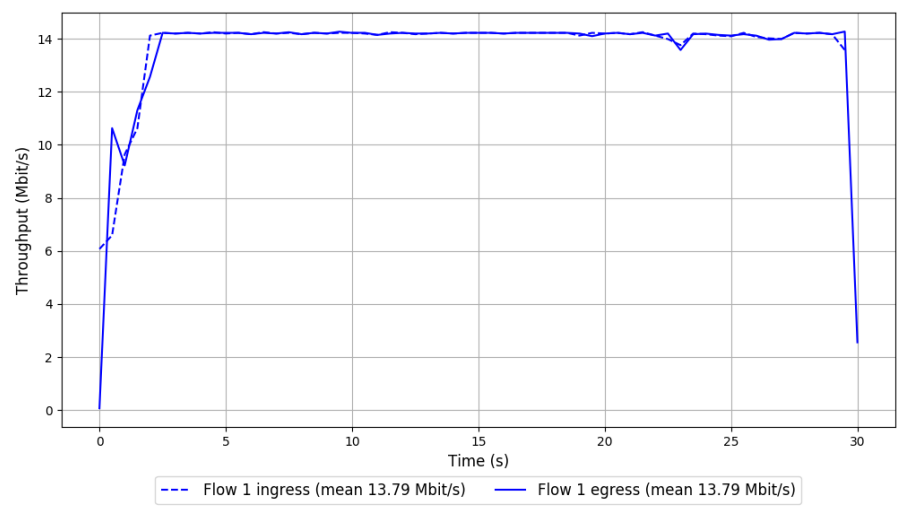
-- Flow 1:

Average throughput: 13.79 Mbit/s

95th percentile per-packet one-way delay: 114.904 ms

Loss rate: 0.00%

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

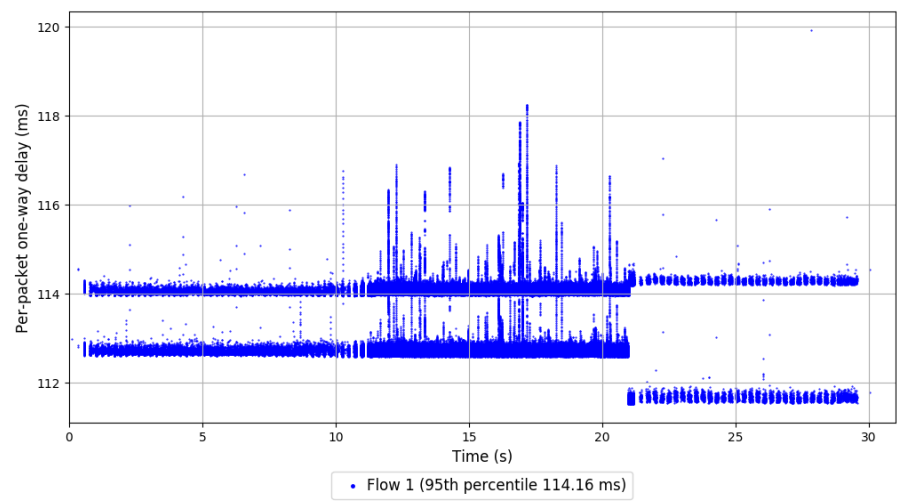
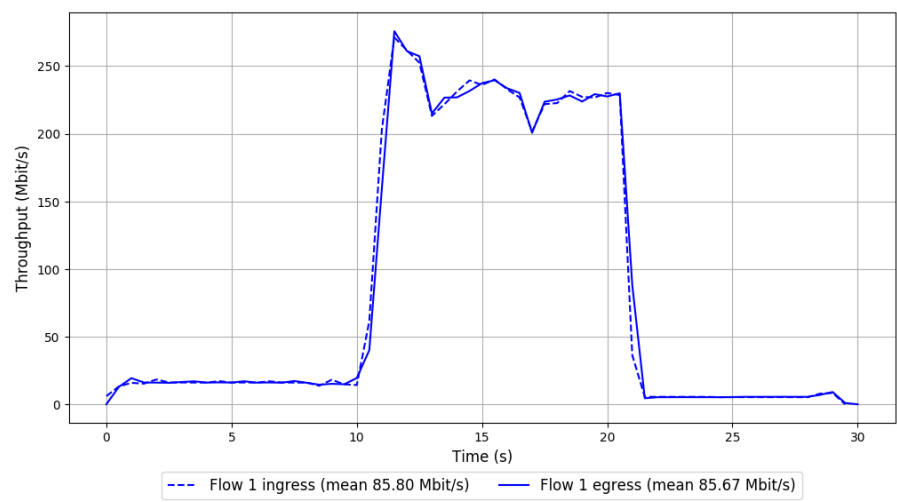


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-01-30 15:38:44
End at: 2018-01-30 15:39:14

# Below is generated by plot.py at 2018-01-30 17:01:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.67 Mbit/s
95th percentile per-packet one-way delay: 114.163 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 85.67 Mbit/s
95th percentile per-packet one-way delay: 114.163 ms
Loss rate: 0.15%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2018-01-30 13:34:40

End at: 2018-01-30 13:35:10

Below is generated by plot.py at 2018-01-30 17:01:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 25.42 Mbit/s

95th percentile per-packet one-way delay: 126.335 ms

Loss rate: 0.01%

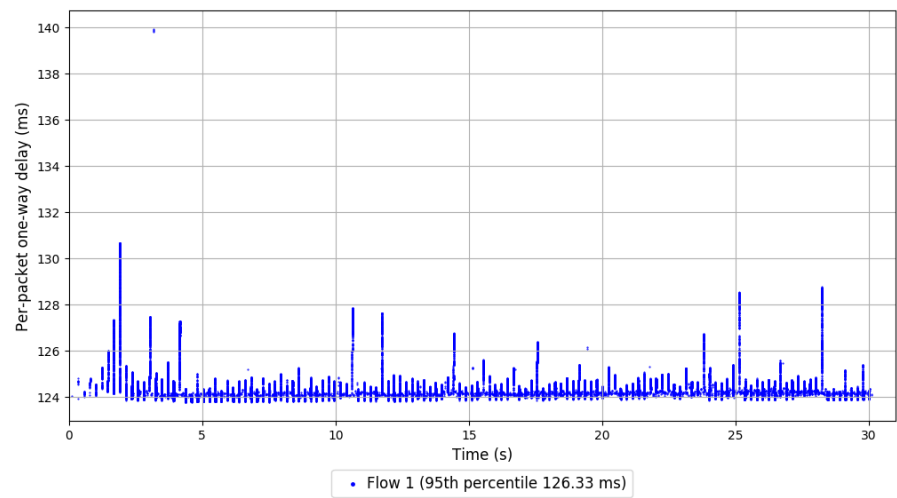
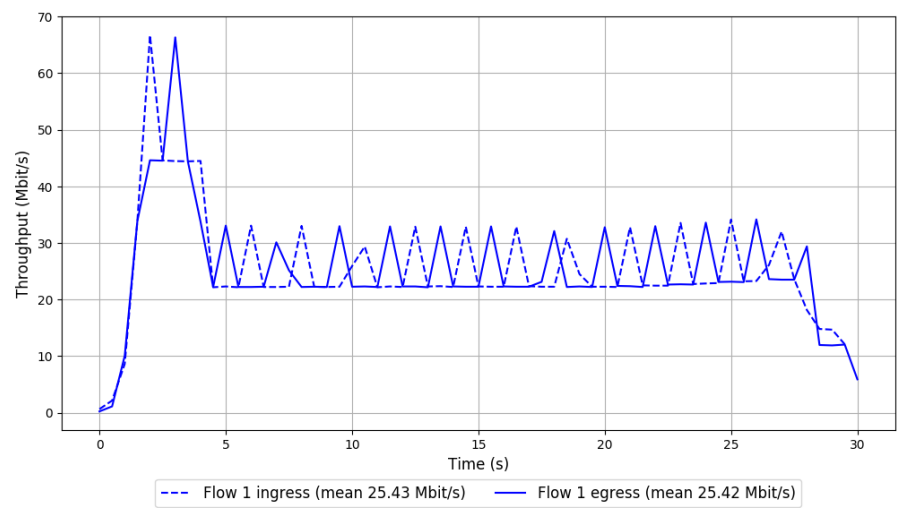
-- Flow 1:

Average throughput: 25.42 Mbit/s

95th percentile per-packet one-way delay: 126.335 ms

Loss rate: 0.01%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-01-30 13:49:12

End at: 2018-01-30 13:49:42

Below is generated by plot.py at 2018-01-30 17:01:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 17.22 Mbit/s

95th percentile per-packet one-way delay: 127.850 ms

Loss rate: 0.00%

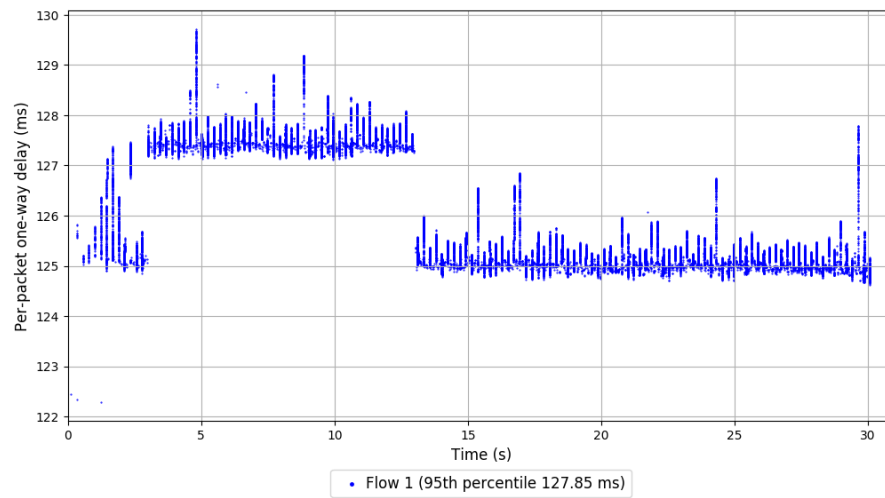
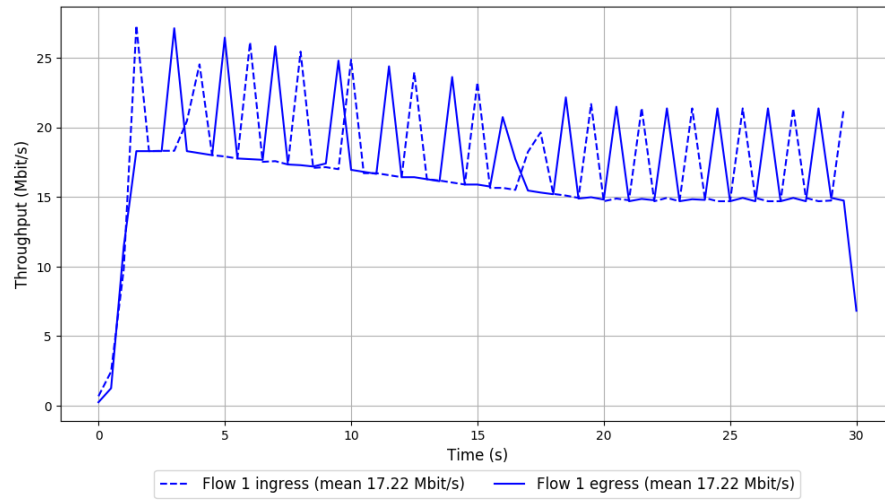
-- Flow 1:

Average throughput: 17.22 Mbit/s

95th percentile per-packet one-way delay: 127.850 ms

Loss rate: 0.00%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-01-30 14:03:59

End at: 2018-01-30 14:04:29

Below is generated by plot.py at 2018-01-30 17:01:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.07 Mbit/s

95th percentile per-packet one-way delay: 129.303 ms

Loss rate: 0.00%

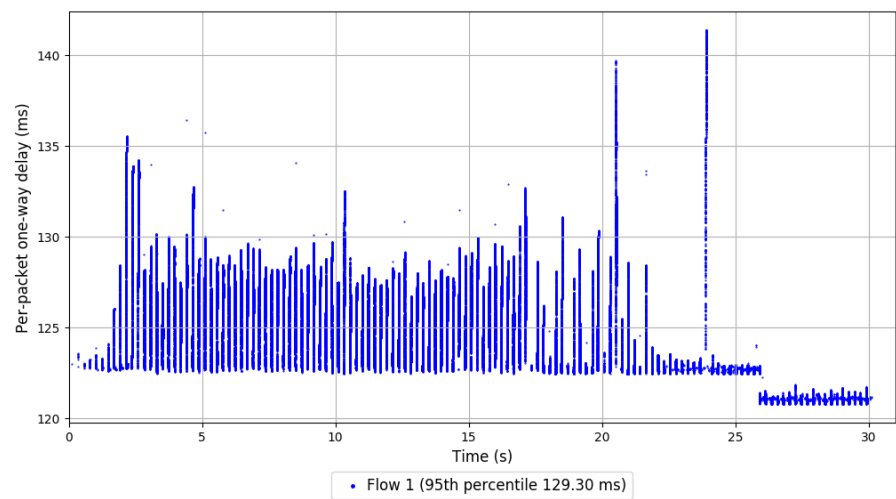
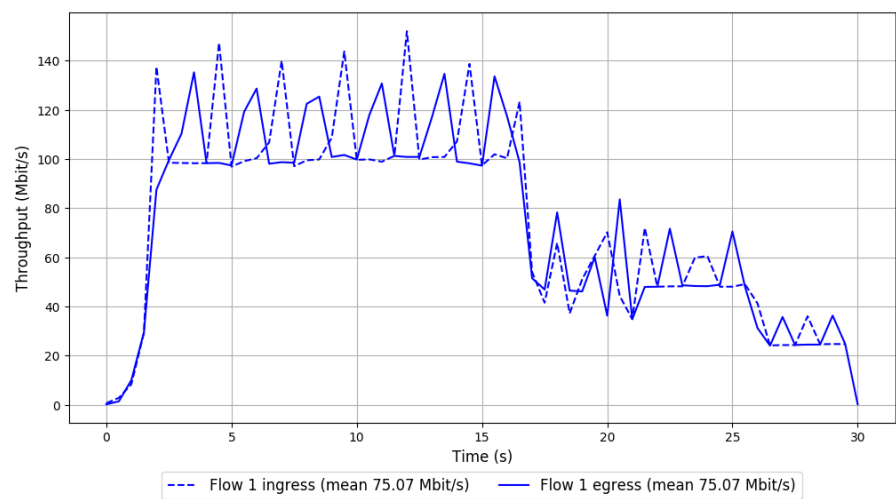
-- Flow 1:

Average throughput: 75.07 Mbit/s

95th percentile per-packet one-way delay: 129.303 ms

Loss rate: 0.00%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-01-30 14:19:17

End at: 2018-01-30 14:19:47

Below is generated by plot.py at 2018-01-30 17:01:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.89 Mbit/s

95th percentile per-packet one-way delay: 131.253 ms

Loss rate: 0.00%

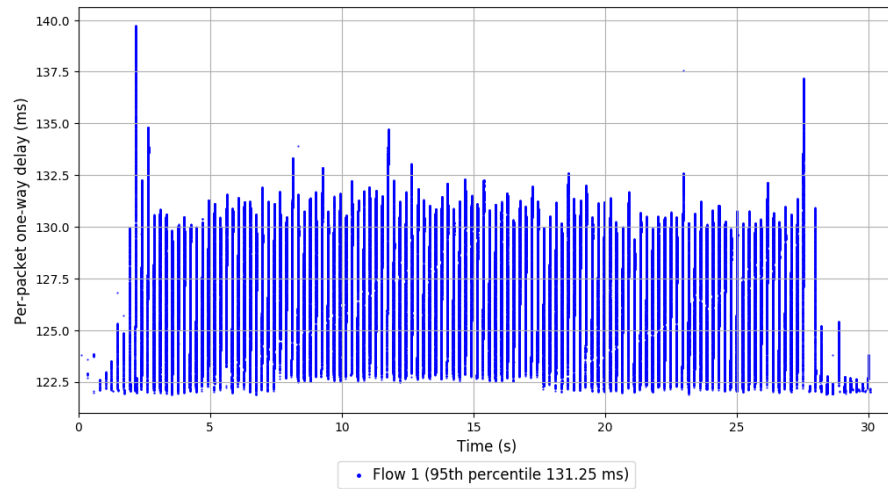
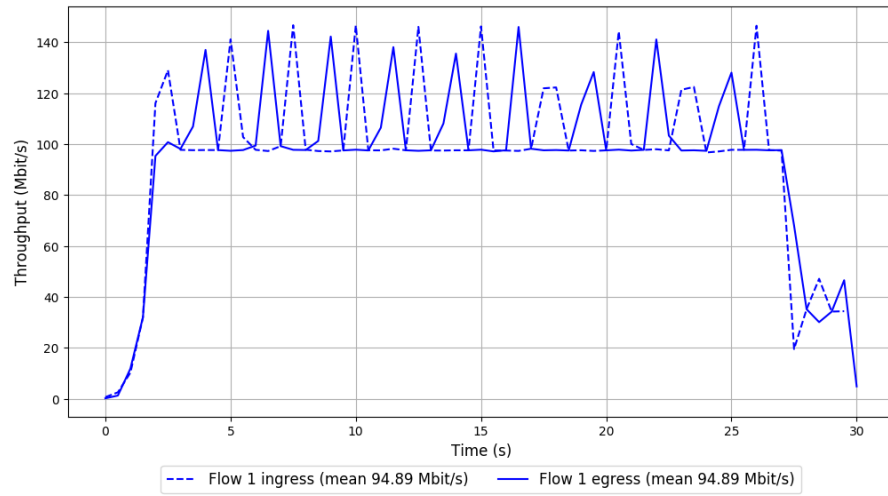
-- Flow 1:

Average throughput: 94.89 Mbit/s

95th percentile per-packet one-way delay: 131.253 ms

Loss rate: 0.00%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-01-30 14:34:22

End at: 2018-01-30 14:34:52

Below is generated by plot.py at 2018-01-30 17:01:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.82 Mbit/s

95th percentile per-packet one-way delay: 127.492 ms

Loss rate: 0.39%

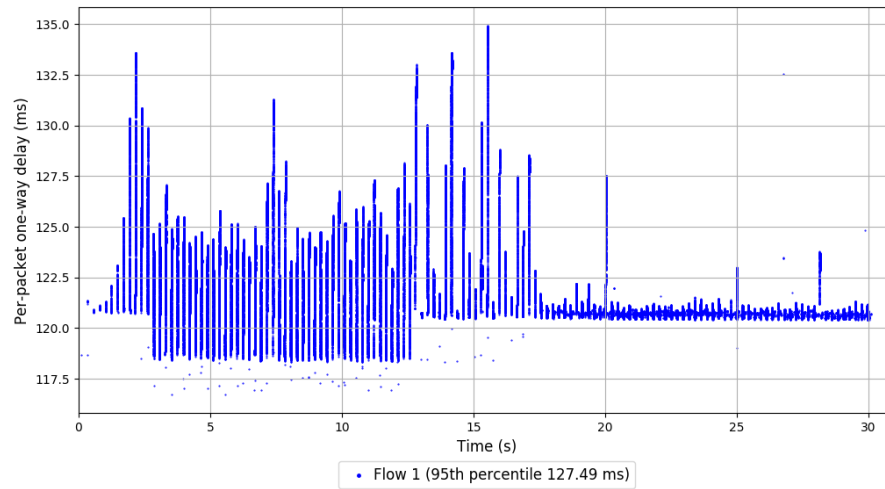
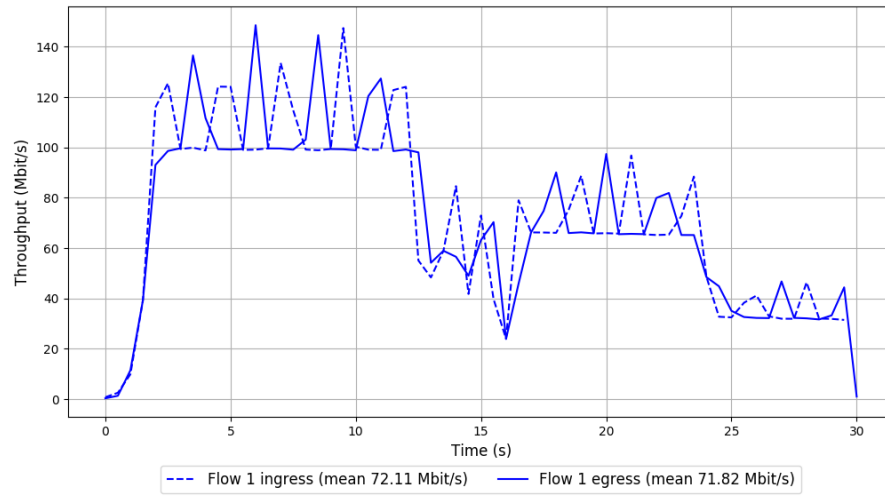
-- Flow 1:

Average throughput: 71.82 Mbit/s

95th percentile per-packet one-way delay: 127.492 ms

Loss rate: 0.39%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-01-30 14:49:30

End at: 2018-01-30 14:50:00

Below is generated by plot.py at 2018-01-30 17:01:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.64 Mbit/s

95th percentile per-packet one-way delay: 125.906 ms

Loss rate: 0.00%

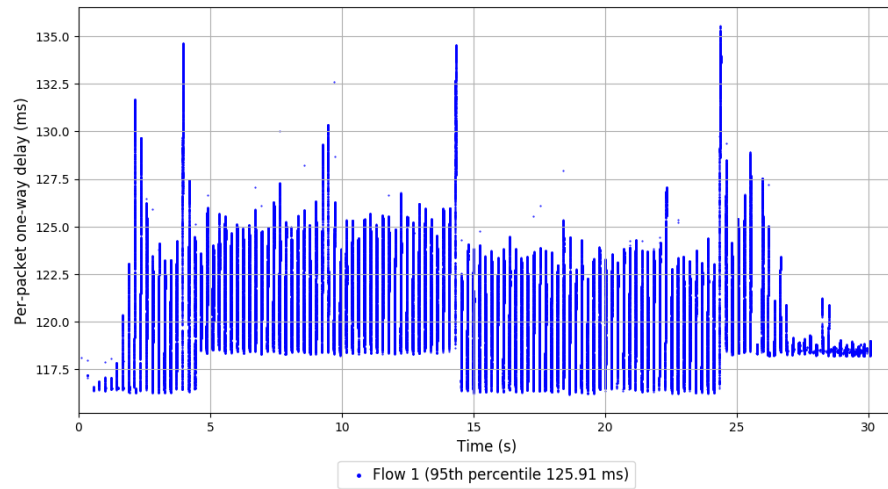
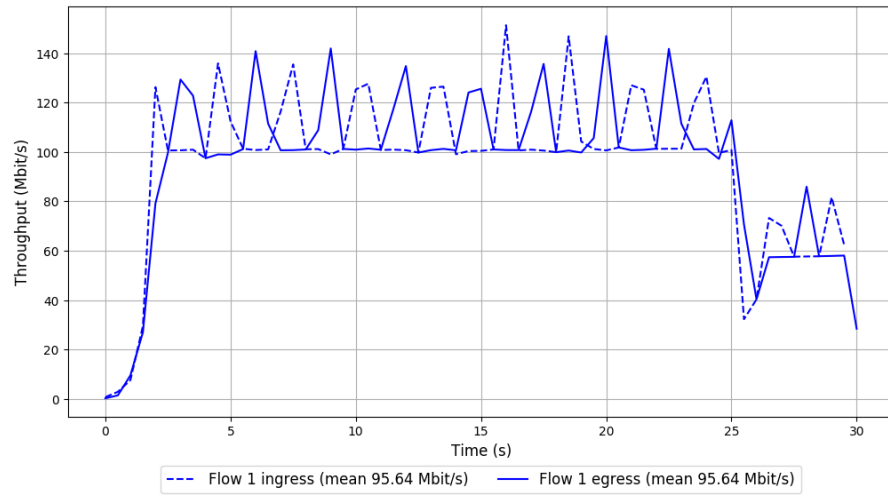
-- Flow 1:

Average throughput: 95.64 Mbit/s

95th percentile per-packet one-way delay: 125.906 ms

Loss rate: 0.00%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-01-30 15:04:51

End at: 2018-01-30 15:05:21

Below is generated by plot.py at 2018-01-30 17:01:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 46.79 Mbit/s

95th percentile per-packet one-way delay: 118.520 ms

Loss rate: 0.03%

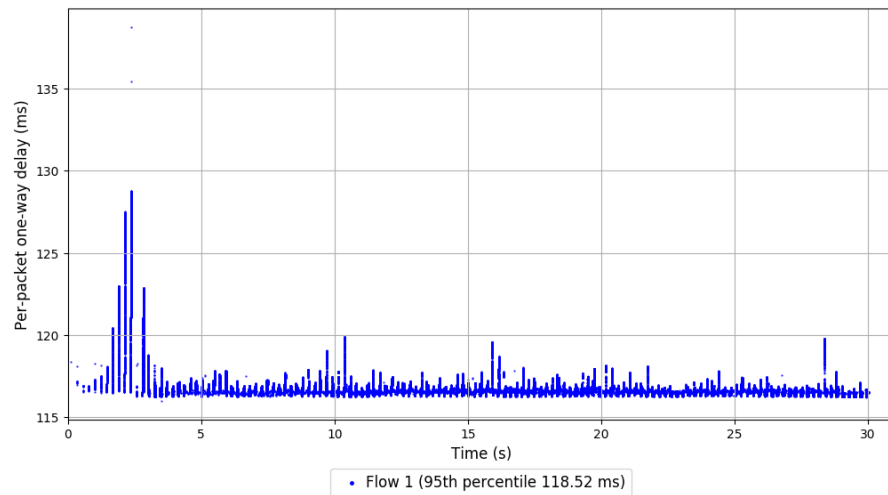
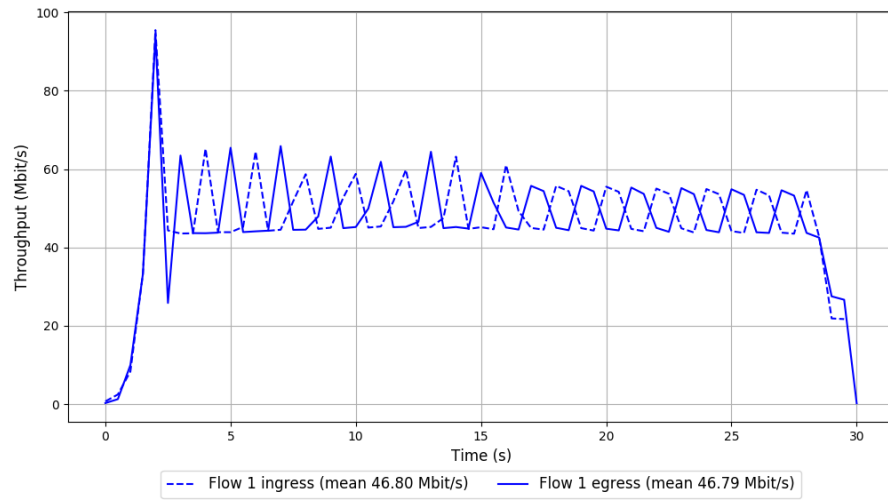
-- Flow 1:

Average throughput: 46.79 Mbit/s

95th percentile per-packet one-way delay: 118.520 ms

Loss rate: 0.03%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-01-30 15:19:32

End at: 2018-01-30 15:20:02

Below is generated by plot.py at 2018-01-30 17:01:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 33.13 Mbit/s

95th percentile per-packet one-way delay: 116.623 ms

Loss rate: 0.00%

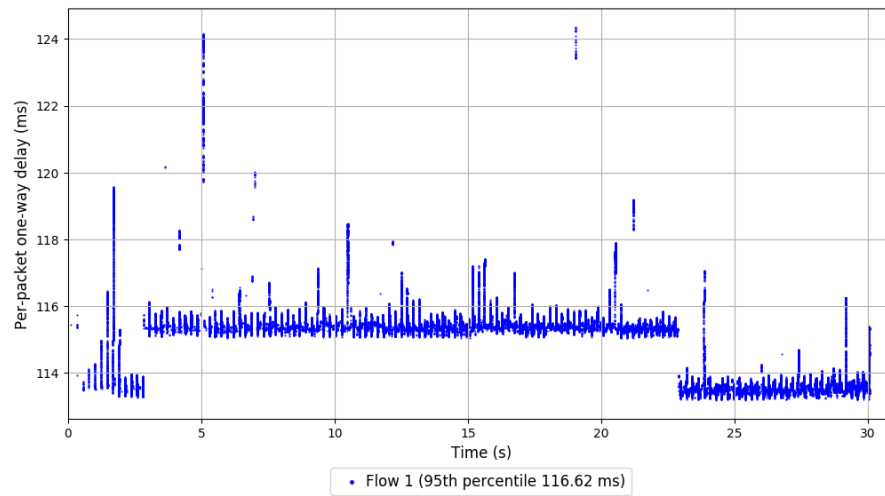
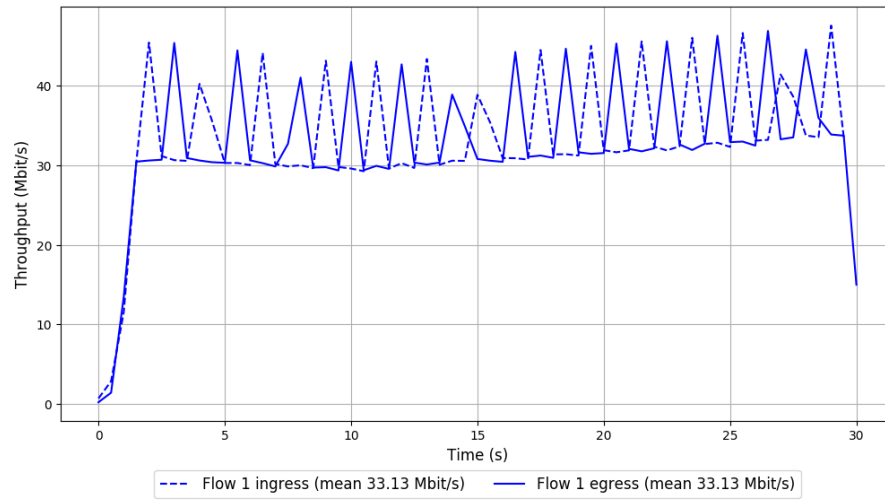
-- Flow 1:

Average throughput: 33.13 Mbit/s

95th percentile per-packet one-way delay: 116.623 ms

Loss rate: 0.00%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-01-30 15:34:03

End at: 2018-01-30 15:34:33

Below is generated by plot.py at 2018-01-30 17:01:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.95 Mbit/s

95th percentile per-packet one-way delay: 118.512 ms

Loss rate: 0.33%

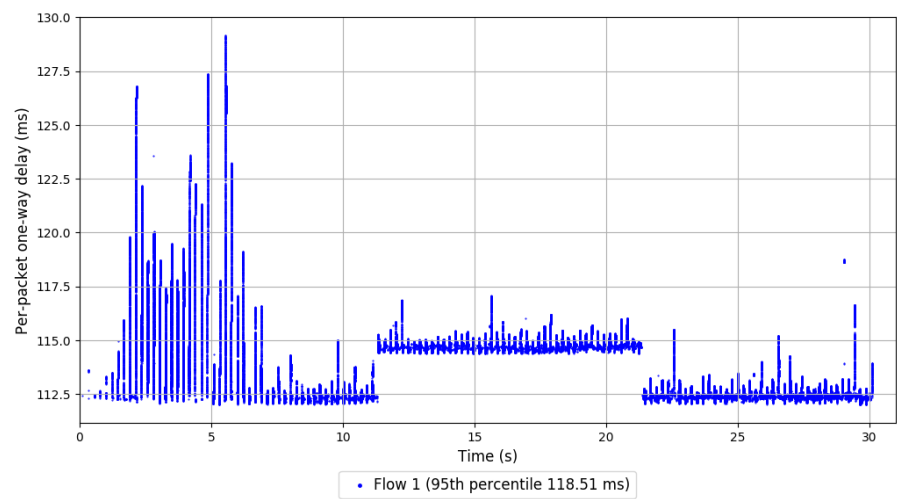
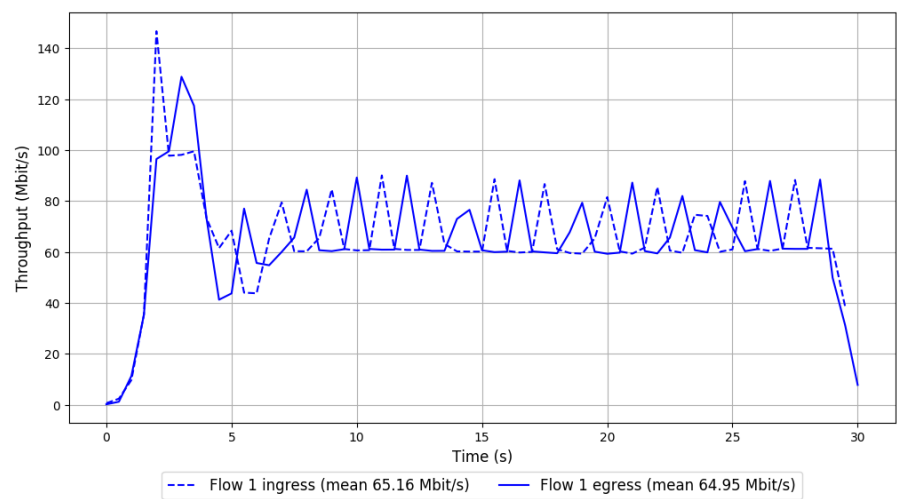
-- Flow 1:

Average throughput: 64.95 Mbit/s

95th percentile per-packet one-way delay: 118.512 ms

Loss rate: 0.33%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-01-30 15:48:38

End at: 2018-01-30 15:49:08

Below is generated by plot.py at 2018-01-30 17:01:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 58.63 Mbit/s

95th percentile per-packet one-way delay: 115.538 ms

Loss rate: 0.00%

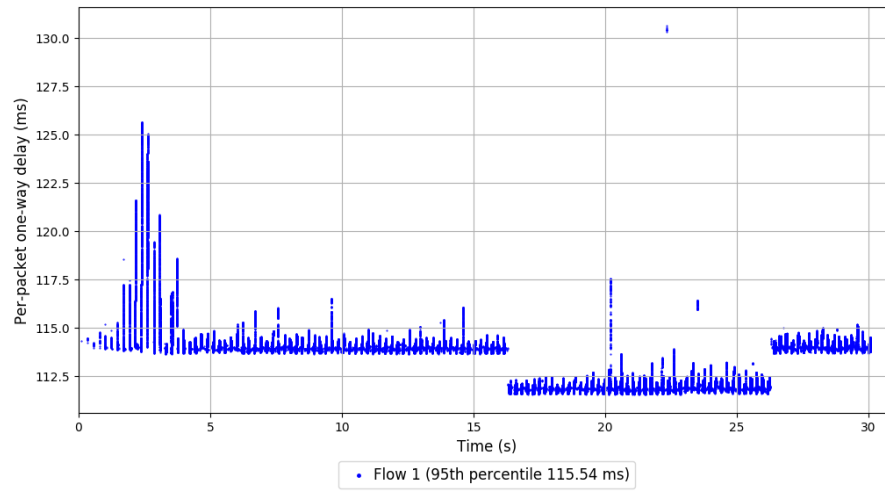
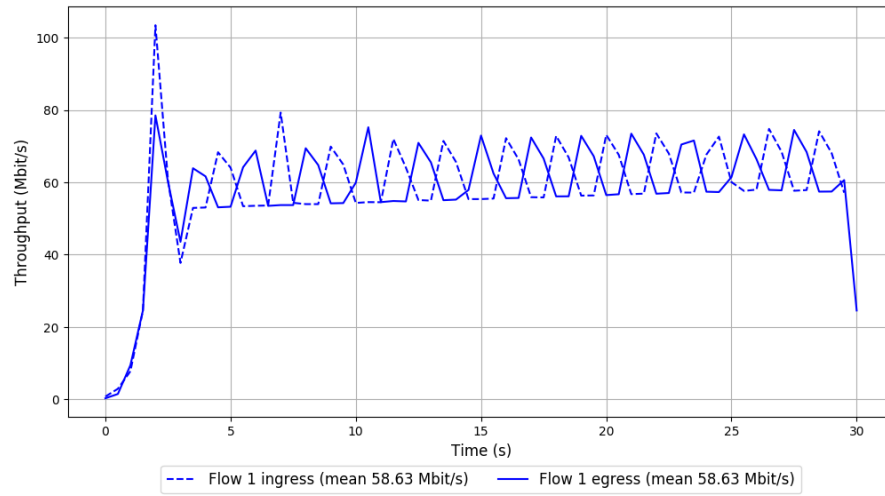
-- Flow 1:

Average throughput: 58.63 Mbit/s

95th percentile per-packet one-way delay: 115.538 ms

Loss rate: 0.00%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-01-30 13:24:10

End at: 2018-01-30 13:24:40

Below is generated by plot.py at 2018-01-30 17:02:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 193.12 Mbit/s

95th percentile per-packet one-way delay: 163.548 ms

Loss rate: 0.04%

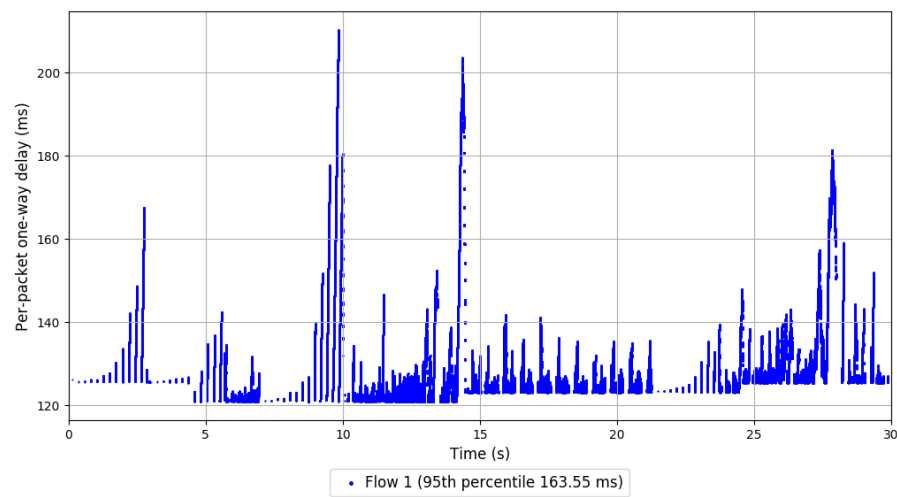
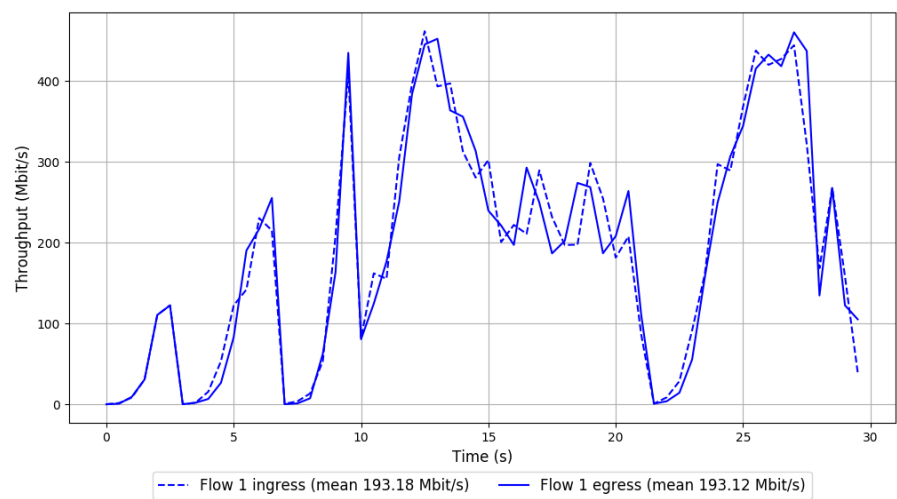
-- Flow 1:

Average throughput: 193.12 Mbit/s

95th percentile per-packet one-way delay: 163.548 ms

Loss rate: 0.04%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-01-30 13:38:40

End at: 2018-01-30 13:39:10

Below is generated by plot.py at 2018-01-30 17:02:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 186.80 Mbit/s

95th percentile per-packet one-way delay: 173.158 ms

Loss rate: 0.00%

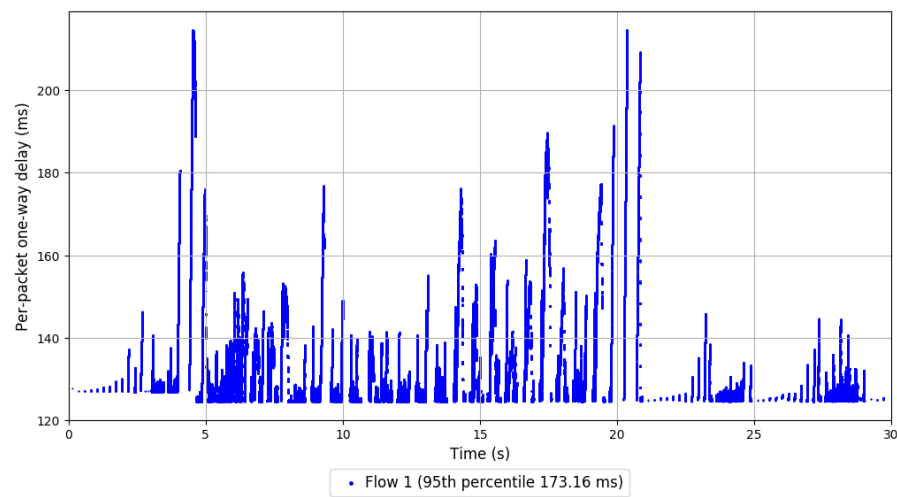
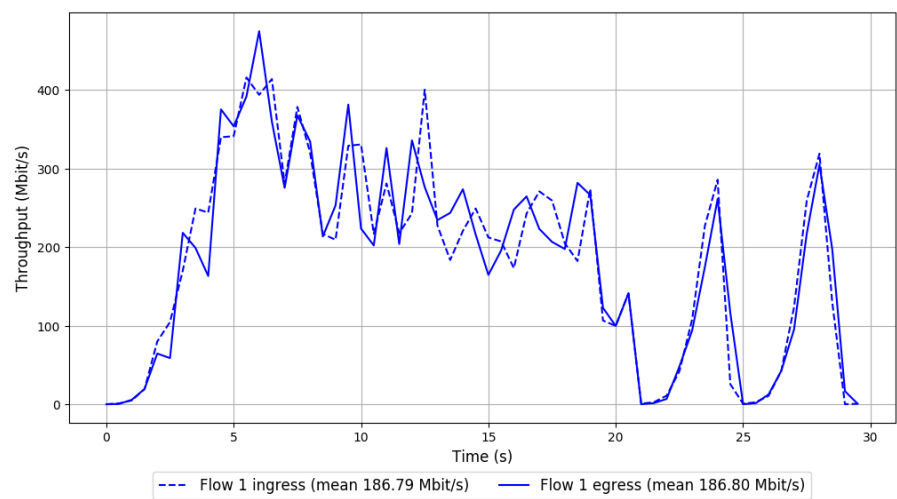
-- Flow 1:

Average throughput: 186.80 Mbit/s

95th percentile per-packet one-way delay: 173.158 ms

Loss rate: 0.00%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-01-30 13:53:08

End at: 2018-01-30 13:53:38

Below is generated by plot.py at 2018-01-30 17:02:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 174.89 Mbit/s

95th percentile per-packet one-way delay: 161.439 ms

Loss rate: 0.00%

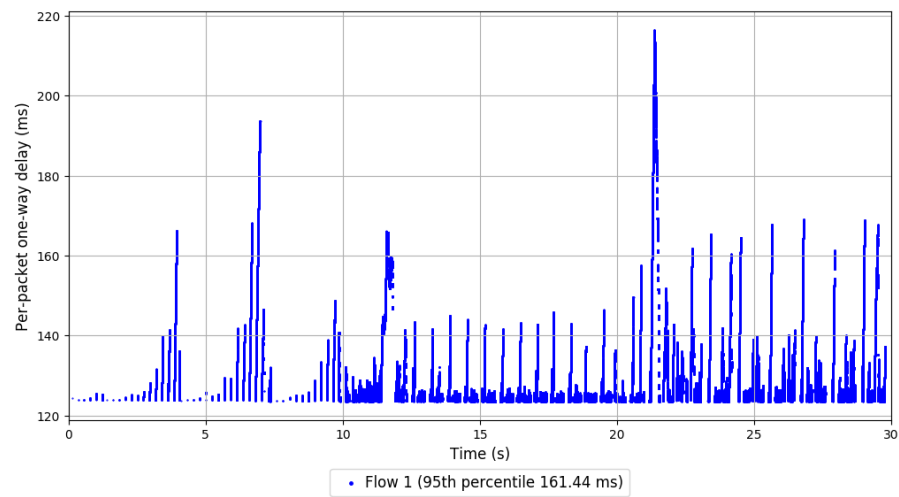
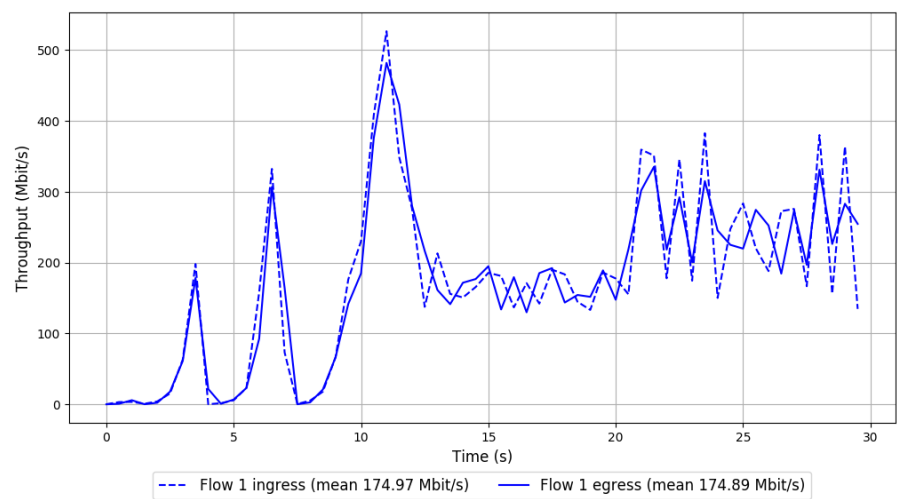
-- Flow 1:

Average throughput: 174.89 Mbit/s

95th percentile per-packet one-way delay: 161.439 ms

Loss rate: 0.00%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-01-30 14:08:07

End at: 2018-01-30 14:08:37

Below is generated by plot.py at 2018-01-30 17:03:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 218.76 Mbit/s

95th percentile per-packet one-way delay: 174.645 ms

Loss rate: 0.04%

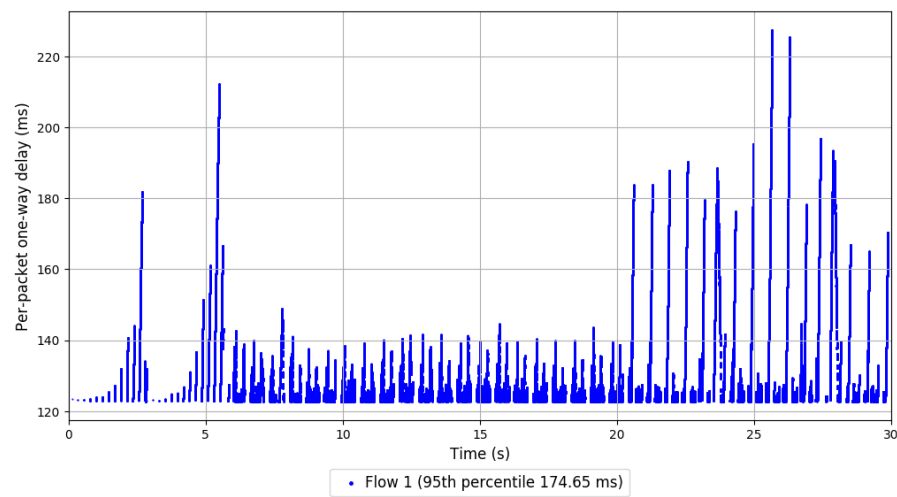
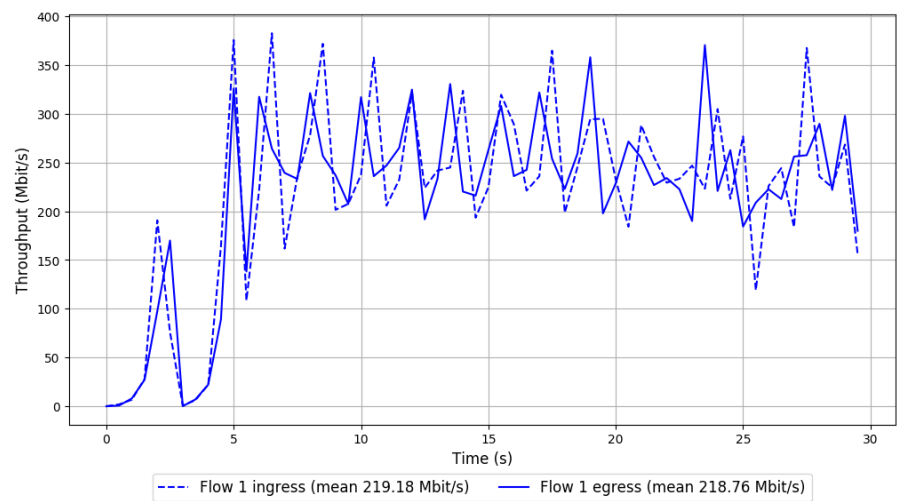
-- Flow 1:

Average throughput: 218.76 Mbit/s

95th percentile per-packet one-way delay: 174.645 ms

Loss rate: 0.04%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-01-30 14:23:25

End at: 2018-01-30 14:23:55

Below is generated by plot.py at 2018-01-30 17:03:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 187.45 Mbit/s

95th percentile per-packet one-way delay: 188.858 ms

Loss rate: 2.25%

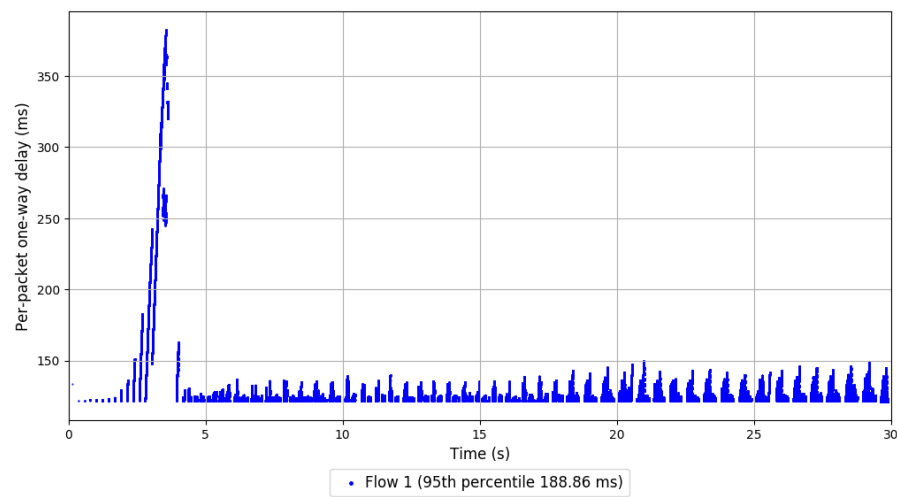
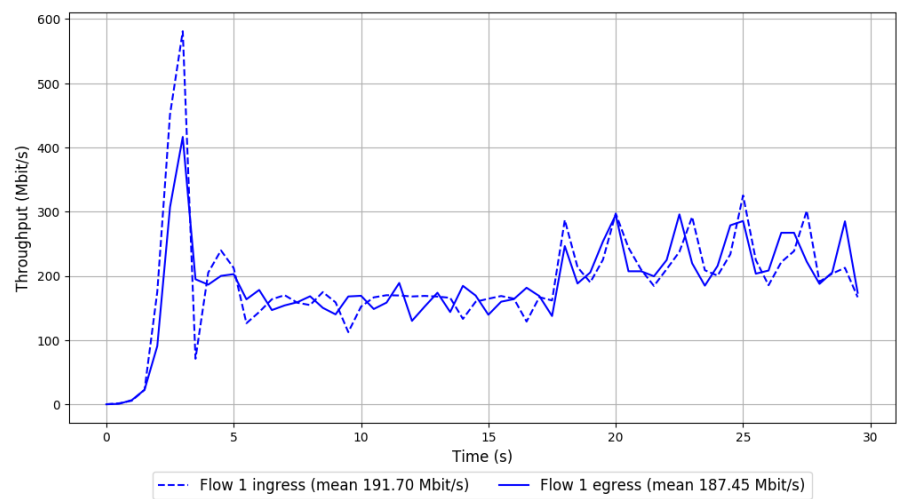
-- Flow 1:

Average throughput: 187.45 Mbit/s

95th percentile per-packet one-way delay: 188.858 ms

Loss rate: 2.25%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-01-30 14:38:34

End at: 2018-01-30 14:39:04

Below is generated by plot.py at 2018-01-30 17:04:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 242.75 Mbit/s

95th percentile per-packet one-way delay: 146.484 ms

Loss rate: 0.09%

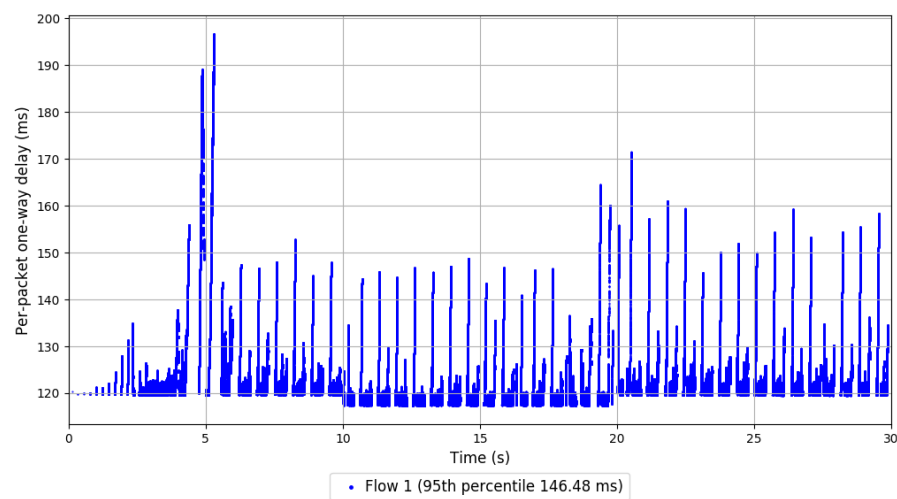
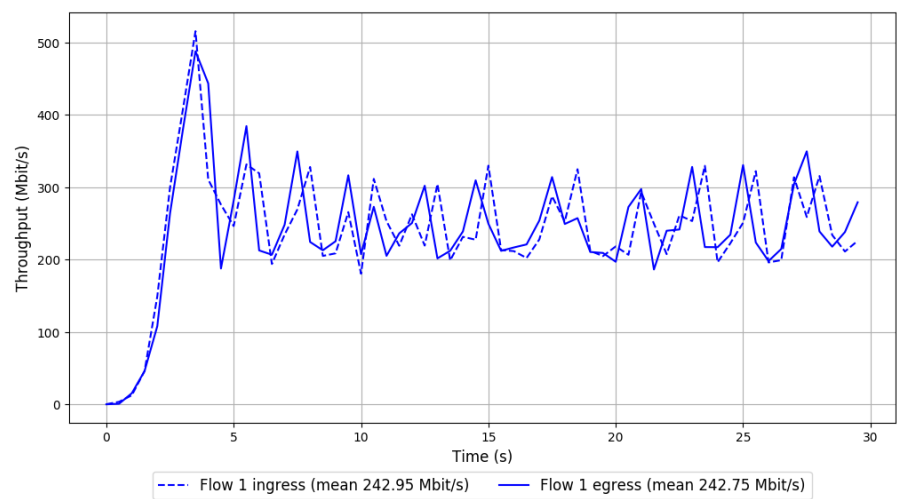
-- Flow 1:

Average throughput: 242.75 Mbit/s

95th percentile per-packet one-way delay: 146.484 ms

Loss rate: 0.09%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-01-30 14:53:43

End at: 2018-01-30 14:54:13

Below is generated by plot.py at 2018-01-30 17:04:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 213.43 Mbit/s

95th percentile per-packet one-way delay: 205.982 ms

Loss rate: 0.29%

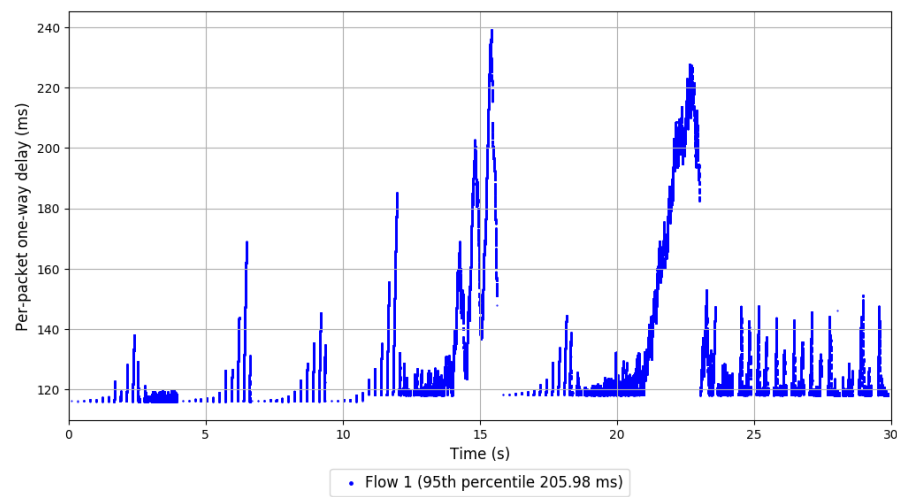
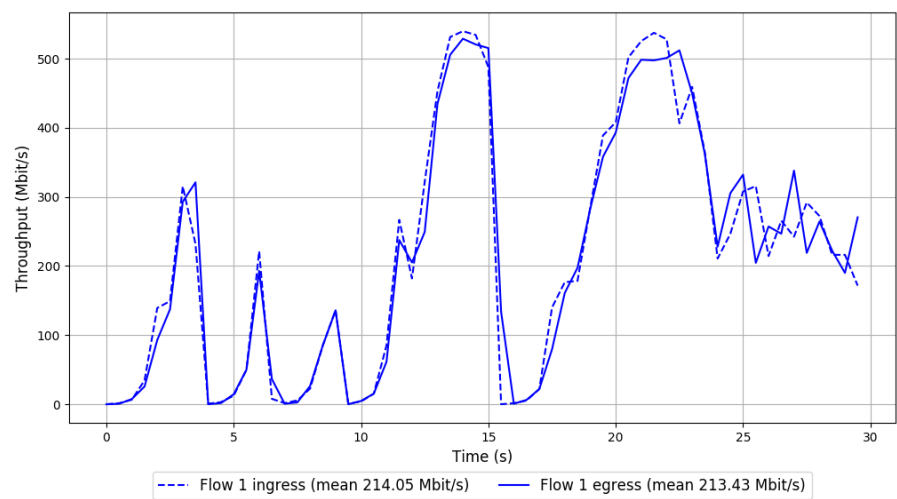
-- Flow 1:

Average throughput: 213.43 Mbit/s

95th percentile per-packet one-way delay: 205.982 ms

Loss rate: 0.29%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-01-30 15:08:44

End at: 2018-01-30 15:09:14

Below is generated by plot.py at 2018-01-30 17:04:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 183.05 Mbit/s

95th percentile per-packet one-way delay: 163.189 ms

Loss rate: 0.20%

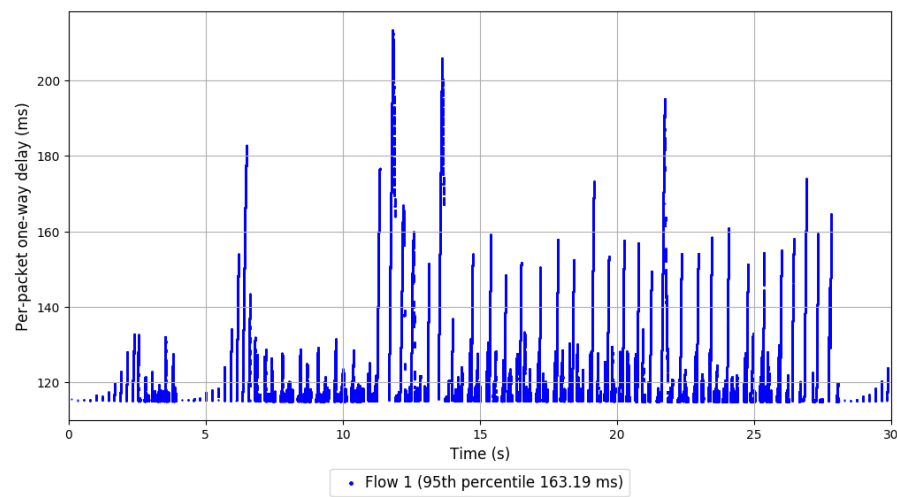
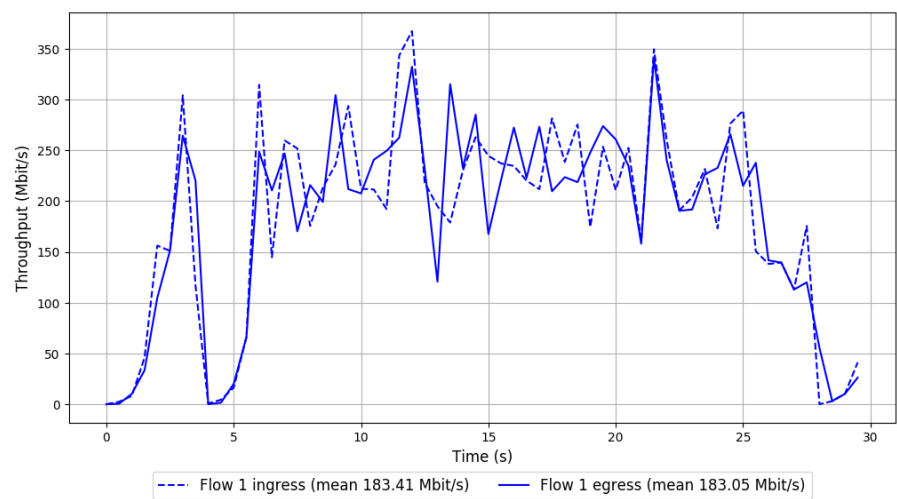
-- Flow 1:

Average throughput: 183.05 Mbit/s

95th percentile per-packet one-way delay: 163.189 ms

Loss rate: 0.20%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-01-30 15:23:17

End at: 2018-01-30 15:23:47

Below is generated by plot.py at 2018-01-30 17:06:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 242.57 Mbit/s

95th percentile per-packet one-way delay: 150.432 ms

Loss rate: 0.04%

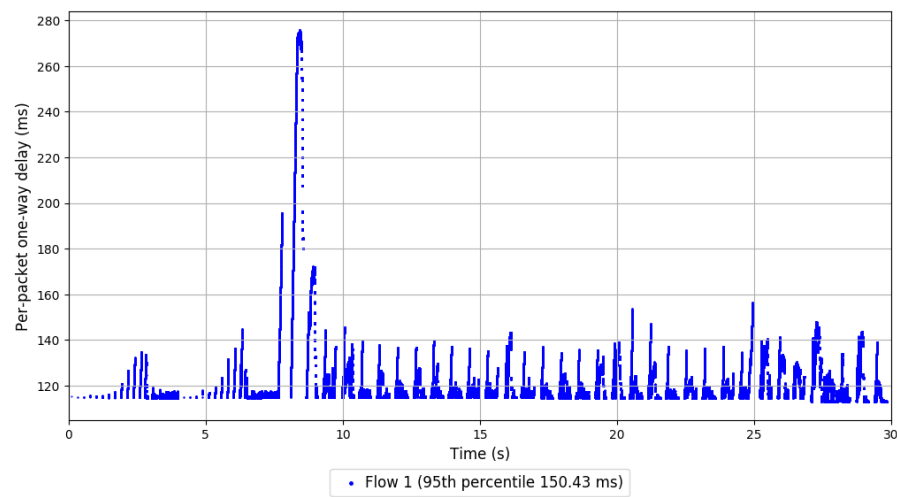
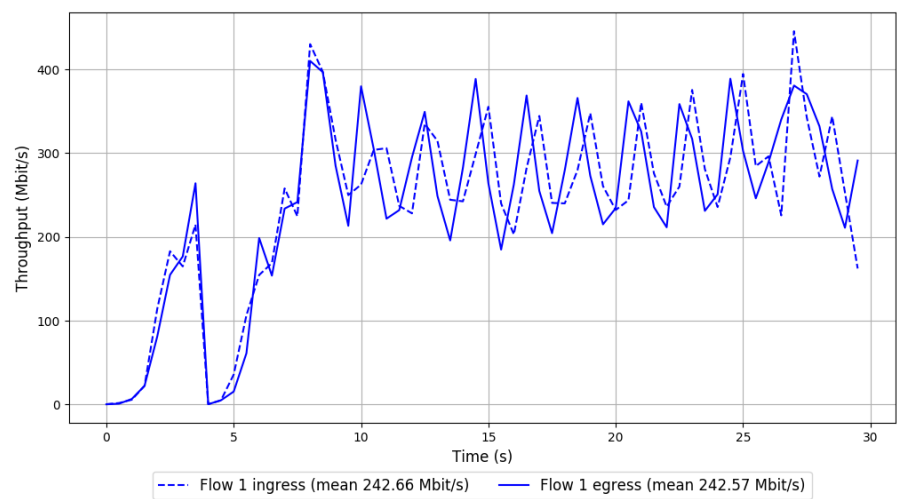
-- Flow 1:

Average throughput: 242.57 Mbit/s

95th percentile per-packet one-way delay: 150.432 ms

Loss rate: 0.04%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-01-30 15:37:54

End at: 2018-01-30 15:38:24

Below is generated by plot.py at 2018-01-30 17:06:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 126.98 Mbit/s

95th percentile per-packet one-way delay: 209.642 ms

Loss rate: 0.86%

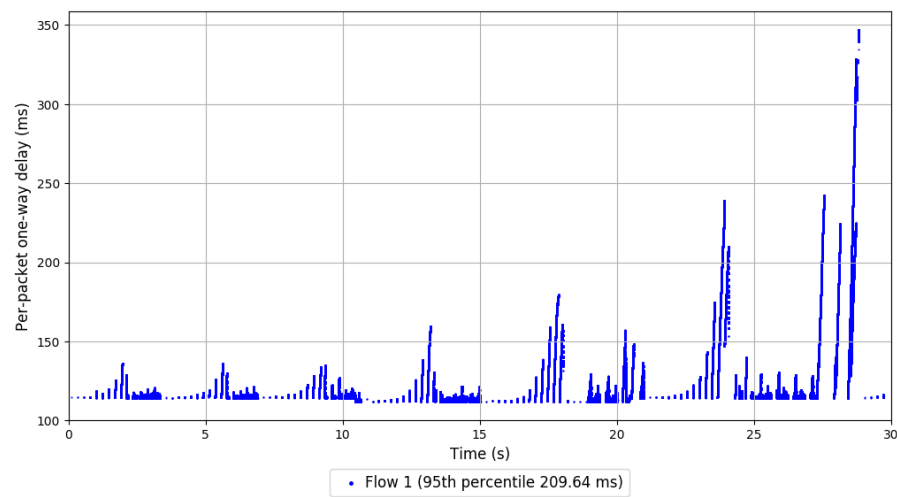
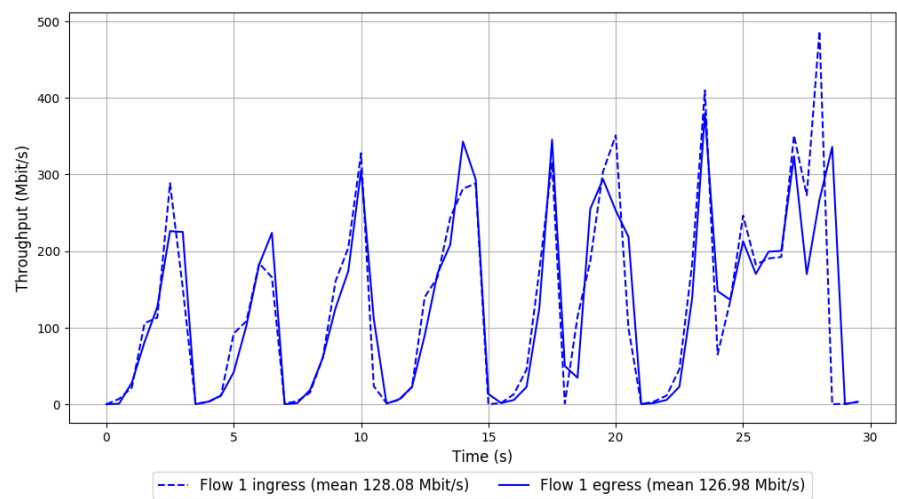
-- Flow 1:

Average throughput: 126.98 Mbit/s

95th percentile per-packet one-way delay: 209.642 ms

Loss rate: 0.86%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2018-01-30 13:26:29

End at: 2018-01-30 13:27:00

Below is generated by plot.py at 2018-01-30 17:06:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 10.91 Mbit/s

95th percentile per-packet one-way delay: 125.467 ms

Loss rate: 0.00%

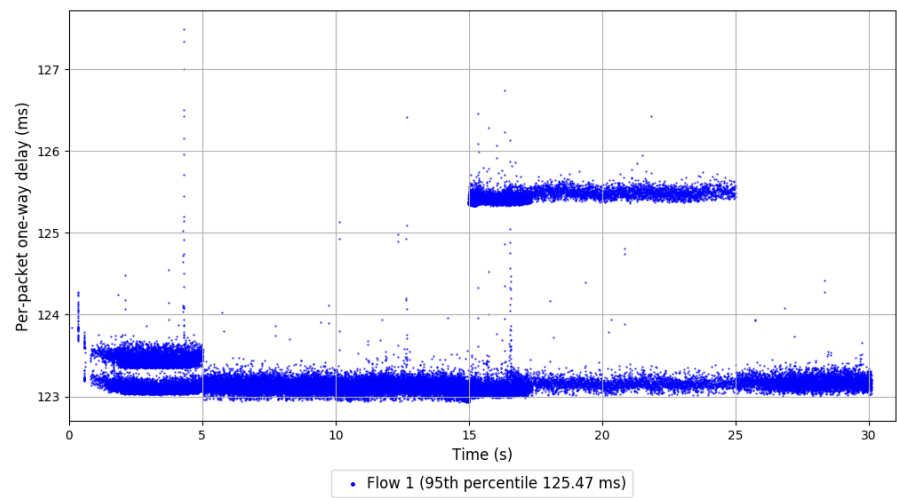
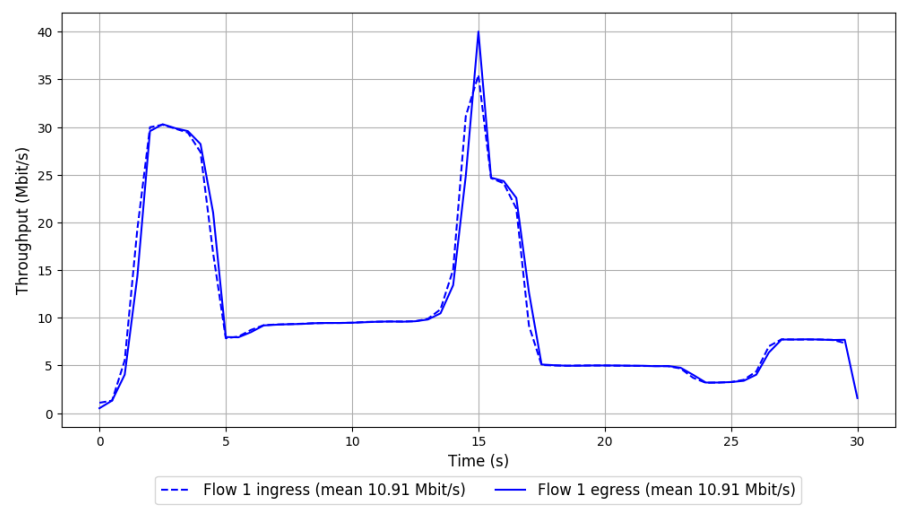
-- Flow 1:

Average throughput: 10.91 Mbit/s

95th percentile per-packet one-way delay: 125.467 ms

Loss rate: 0.00%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-01-30 13:41:03

End at: 2018-01-30 13:41:33

Below is generated by plot.py at 2018-01-30 17:06:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 51.03 Mbit/s

95th percentile per-packet one-way delay: 125.272 ms

Loss rate: 0.00%

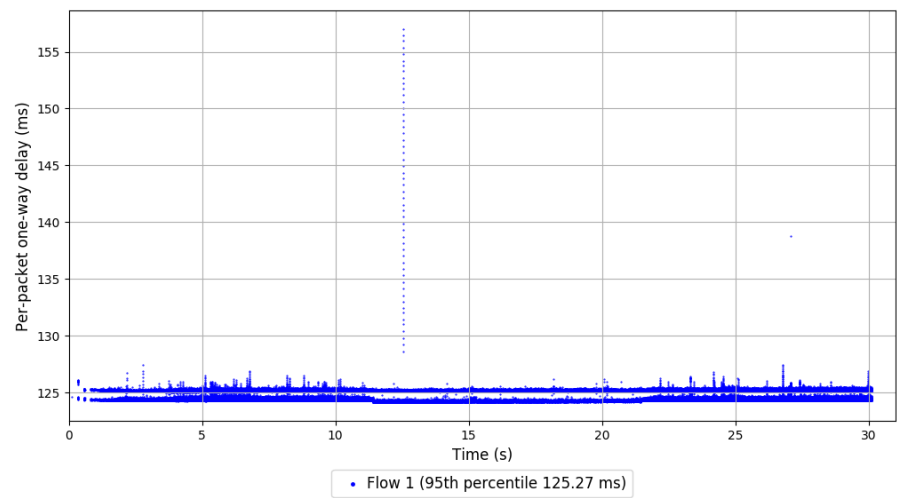
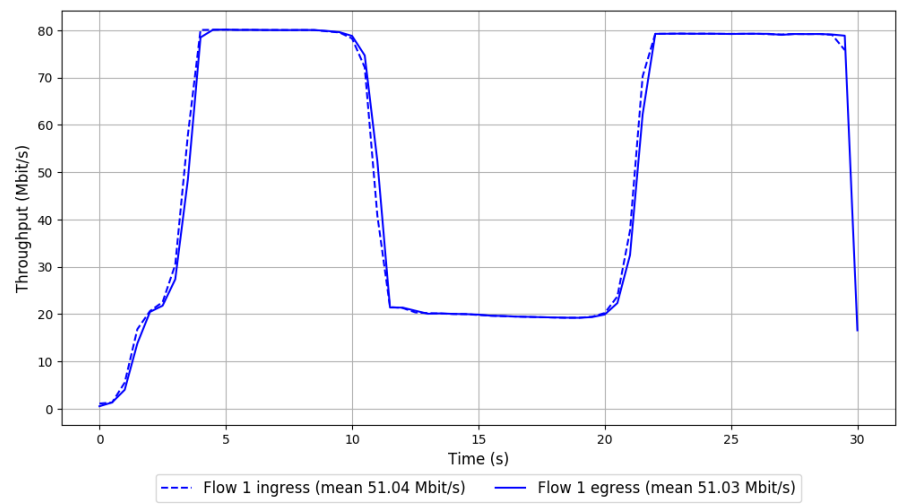
-- Flow 1:

Average throughput: 51.03 Mbit/s

95th percentile per-packet one-way delay: 125.272 ms

Loss rate: 0.00%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-01-30 13:55:27

End at: 2018-01-30 13:55:57

Below is generated by plot.py at 2018-01-30 17:06:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 44.62 Mbit/s

95th percentile per-packet one-way delay: 123.712 ms

Loss rate: 0.00%

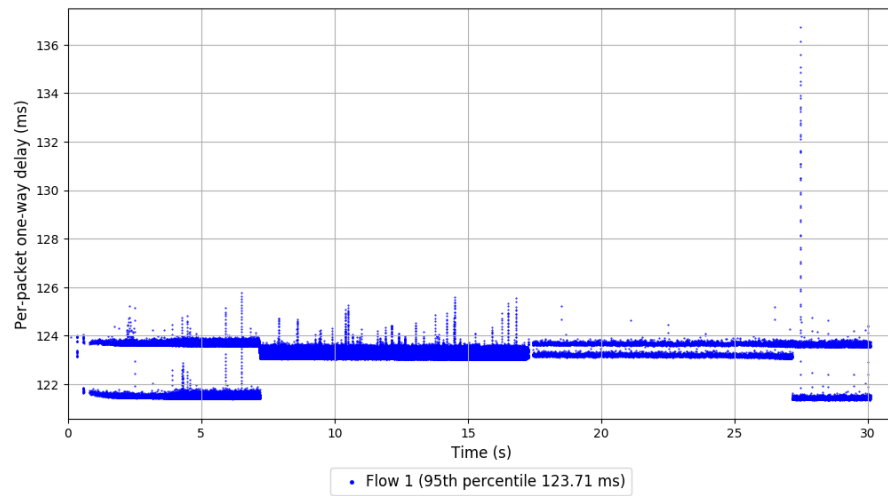
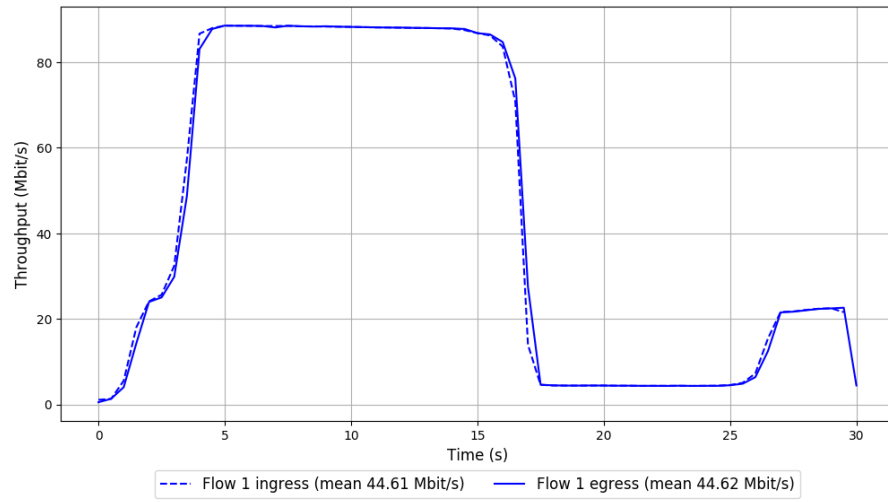
-- Flow 1:

Average throughput: 44.62 Mbit/s

95th percentile per-packet one-way delay: 123.712 ms

Loss rate: 0.00%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-01-30 14:10:49

End at: 2018-01-30 14:11:19

Below is generated by plot.py at 2018-01-30 17:06:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 55.43 Mbit/s

95th percentile per-packet one-way delay: 122.920 ms

Loss rate: 0.00%

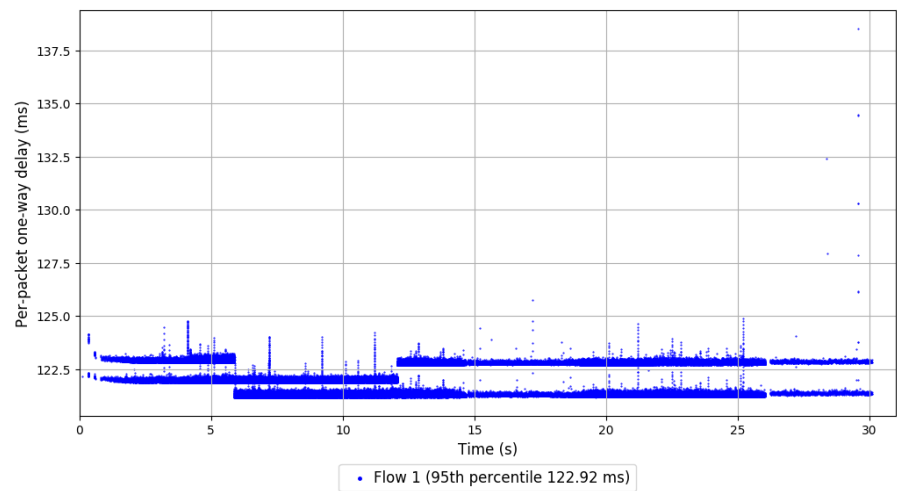
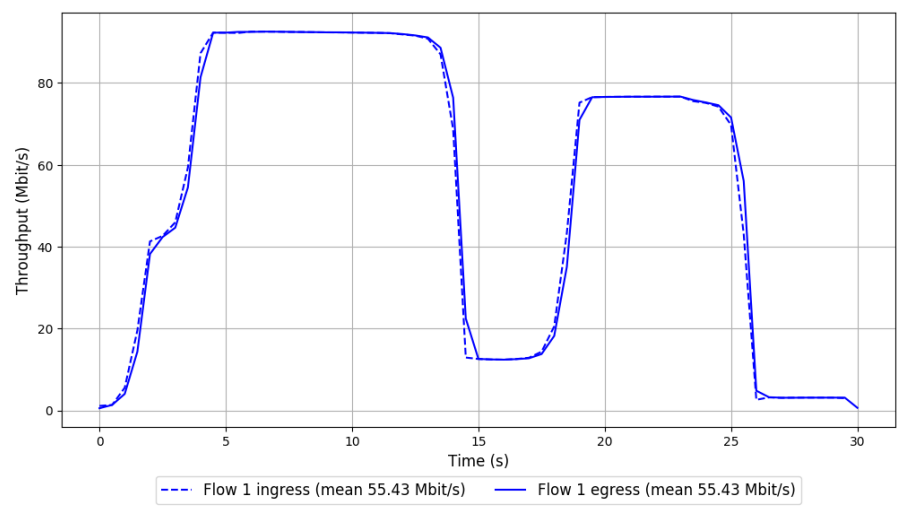
-- Flow 1:

Average throughput: 55.43 Mbit/s

95th percentile per-packet one-way delay: 122.920 ms

Loss rate: 0.00%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-01-30 14:25:54

End at: 2018-01-30 14:26:24

Below is generated by plot.py at 2018-01-30 17:06:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.88 Mbit/s

95th percentile per-packet one-way delay: 123.163 ms

Loss rate: 0.00%

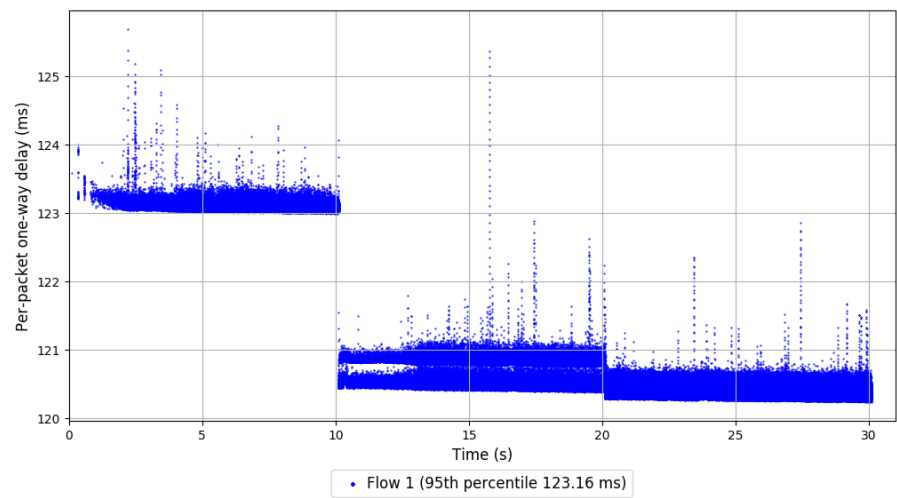
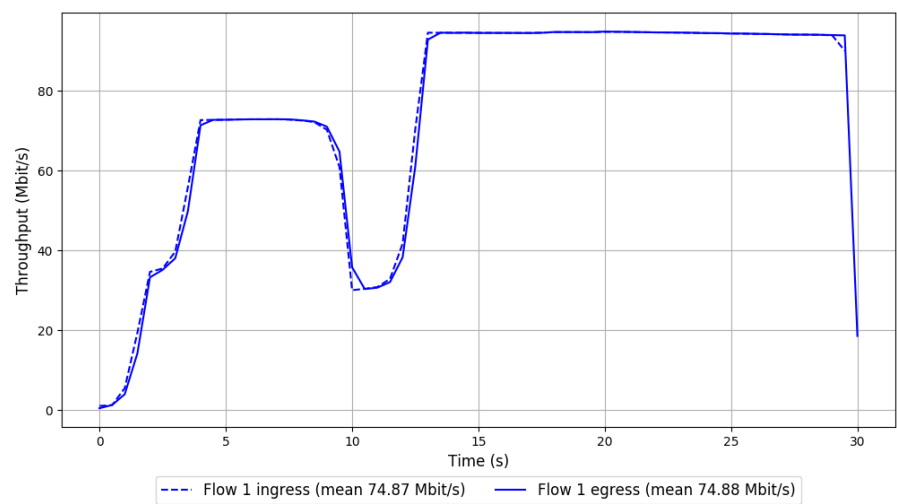
-- Flow 1:

Average throughput: 74.88 Mbit/s

95th percentile per-packet one-way delay: 123.163 ms

Loss rate: 0.00%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-01-30 14:40:57

End at: 2018-01-30 14:41:28

Below is generated by plot.py at 2018-01-30 17:06:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 56.05 Mbit/s

95th percentile per-packet one-way delay: 119.378 ms

Loss rate: 0.00%

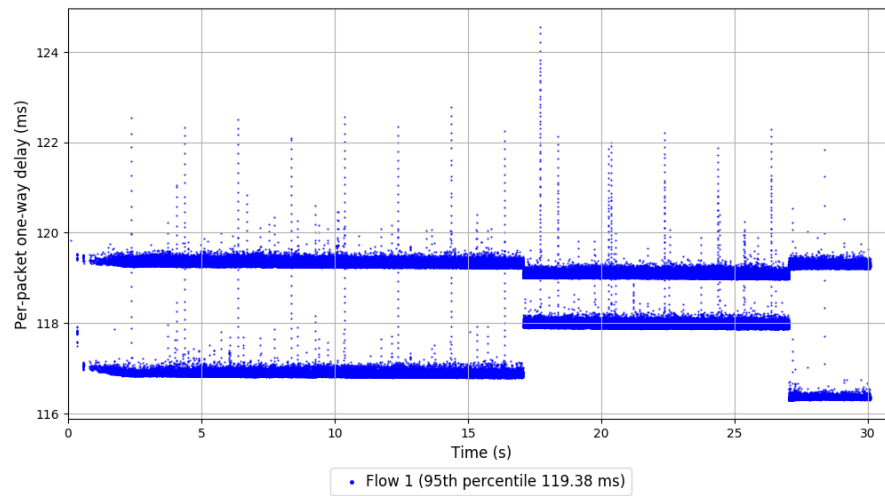
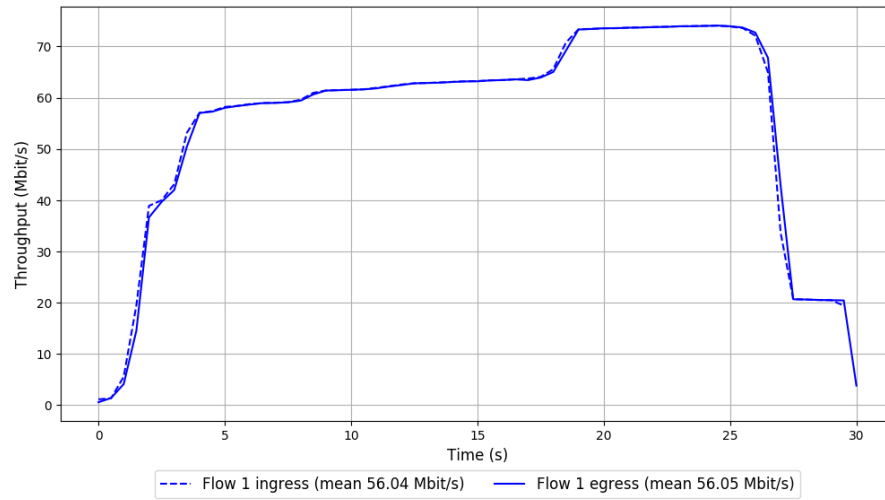
-- Flow 1:

Average throughput: 56.05 Mbit/s

95th percentile per-packet one-way delay: 119.378 ms

Loss rate: 0.00%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-01-30 14:56:17

End at: 2018-01-30 14:56:47

Below is generated by plot.py at 2018-01-30 17:07:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.68 Mbit/s

95th percentile per-packet one-way delay: 117.162 ms

Loss rate: 0.00%

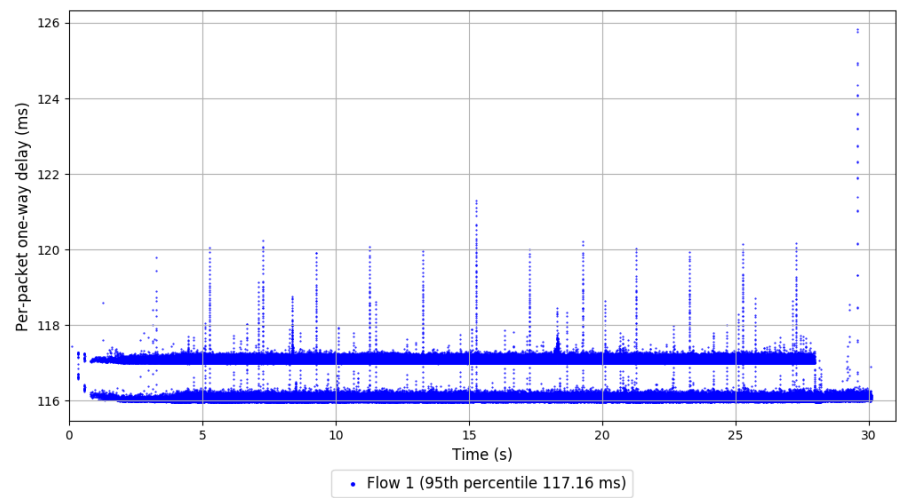
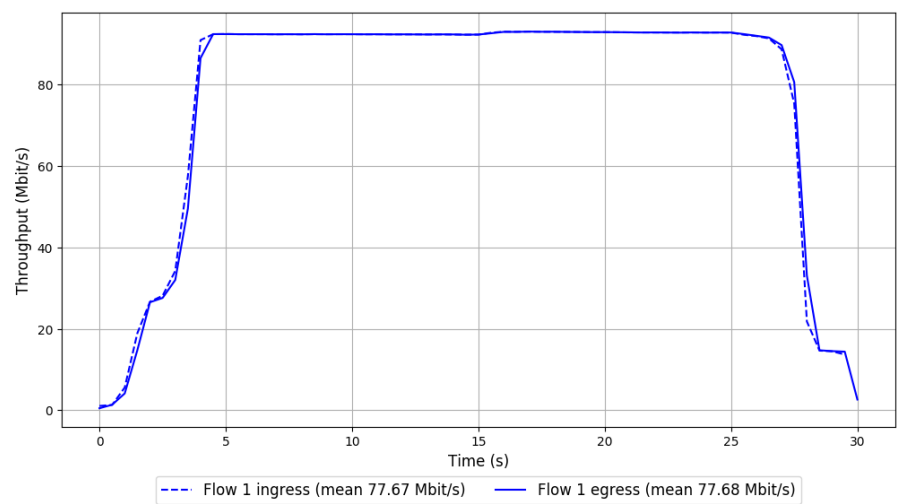
-- Flow 1:

Average throughput: 77.68 Mbit/s

95th percentile per-packet one-way delay: 117.162 ms

Loss rate: 0.00%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-01-30 15:11:10

End at: 2018-01-30 15:11:40

Below is generated by plot.py at 2018-01-30 17:07:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 37.86 Mbit/s

95th percentile per-packet one-way delay: 114.719 ms

Loss rate: 0.00%

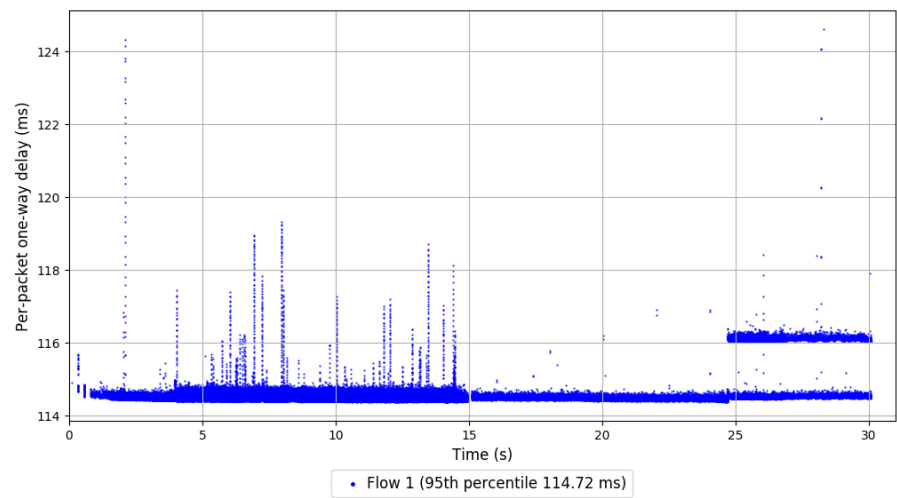
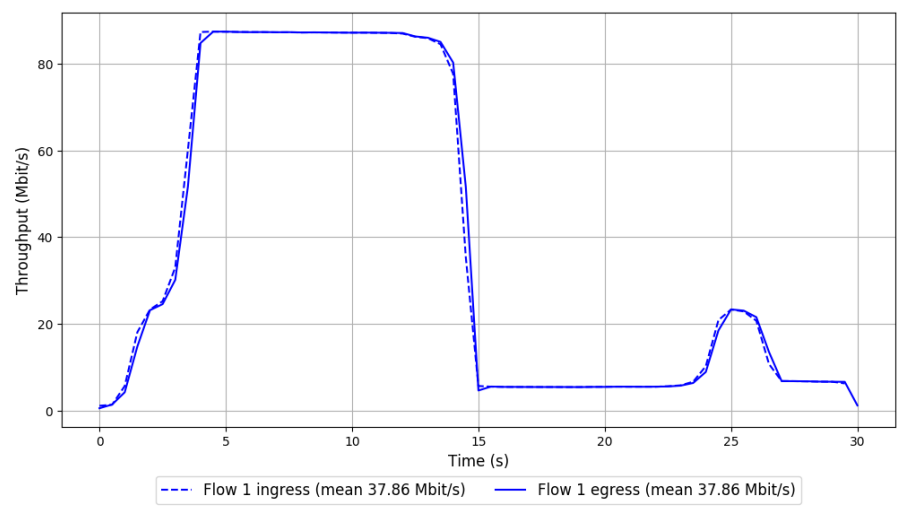
-- Flow 1:

Average throughput: 37.86 Mbit/s

95th percentile per-packet one-way delay: 114.719 ms

Loss rate: 0.00%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-01-30 15:25:40

End at: 2018-01-30 15:26:10

Below is generated by plot.py at 2018-01-30 17:07:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 23.14 Mbit/s

95th percentile per-packet one-way delay: 114.867 ms

Loss rate: 0.00%

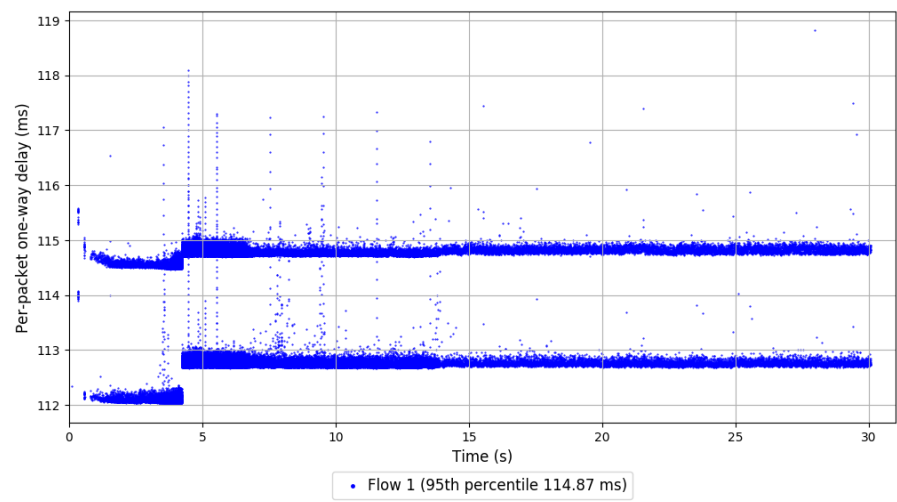
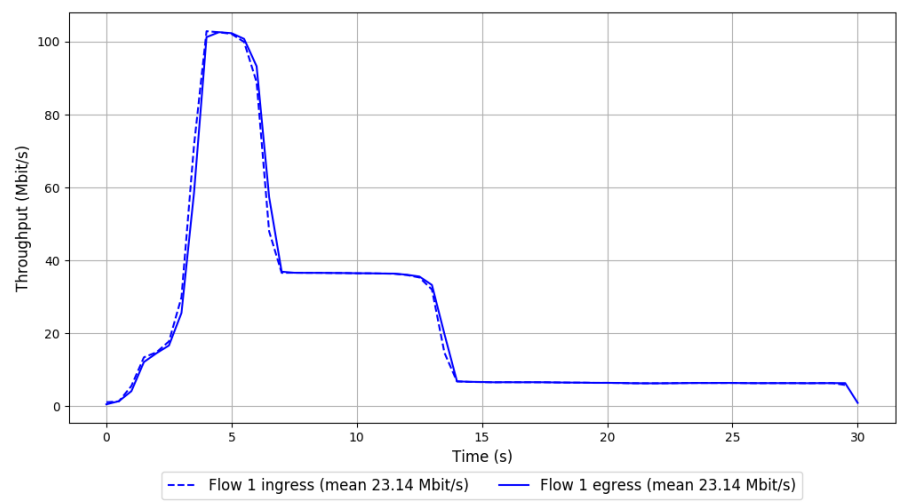
-- Flow 1:

Average throughput: 23.14 Mbit/s

95th percentile per-packet one-way delay: 114.867 ms

Loss rate: 0.00%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-01-30 15:40:16

End at: 2018-01-30 15:40:46

Below is generated by plot.py at 2018-01-30 17:07:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 41.56 Mbit/s

95th percentile per-packet one-way delay: 114.675 ms

Loss rate: 0.00%

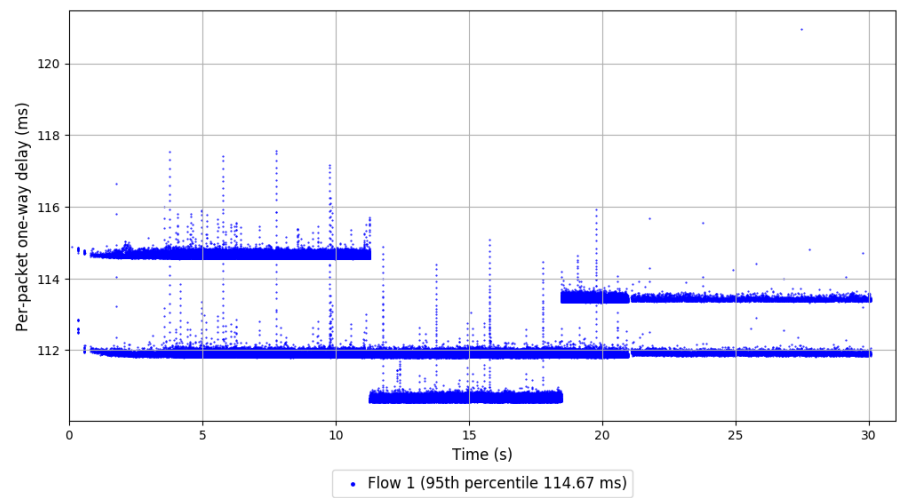
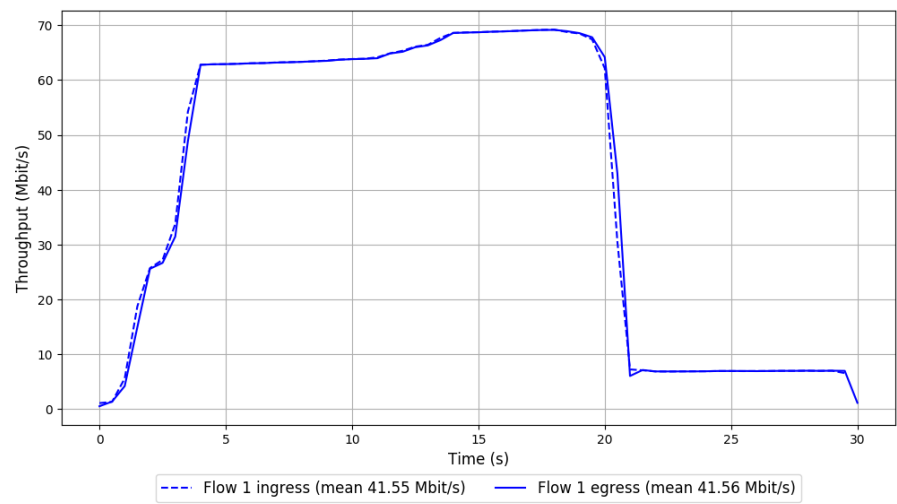
-- Flow 1:

Average throughput: 41.56 Mbit/s

95th percentile per-packet one-way delay: 114.675 ms

Loss rate: 0.00%

Run 10: Report of Copa — Data Link

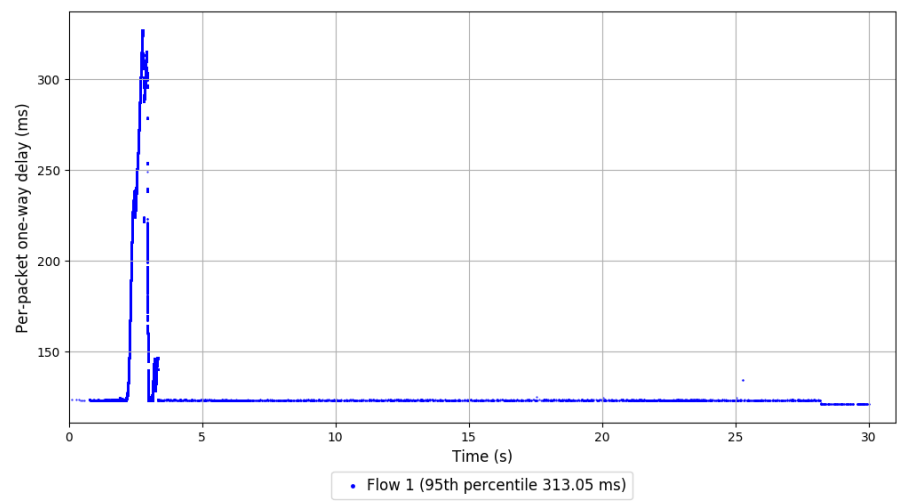
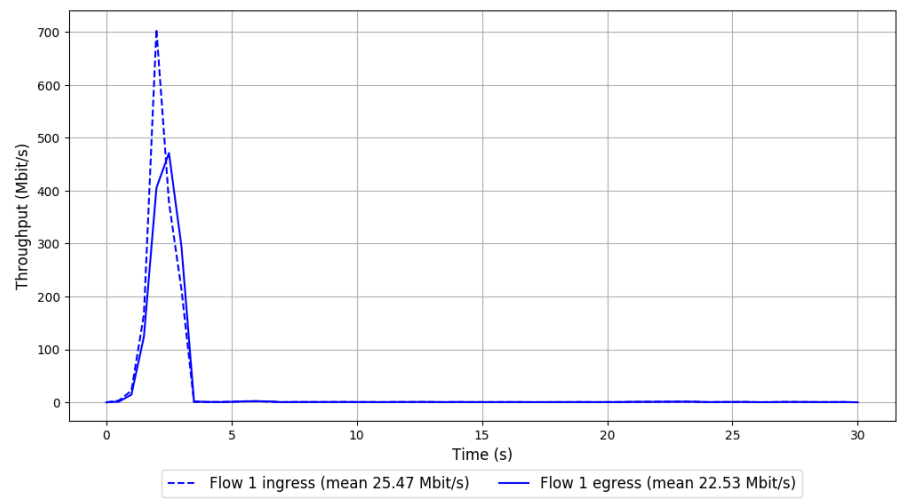


```
Run 1: Statistics of FillP

Start at: 2018-01-30 13:25:46
End at: 2018-01-30 13:26:16

# Below is generated by plot.py at 2018-01-30 17:07:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 22.53 Mbit/s
95th percentile per-packet one-way delay: 313.054 ms
Loss rate: 11.55%
-- Flow 1:
Average throughput: 22.53 Mbit/s
95th percentile per-packet one-way delay: 313.054 ms
Loss rate: 11.55%
```

Run 1: Report of FillP — Data Link

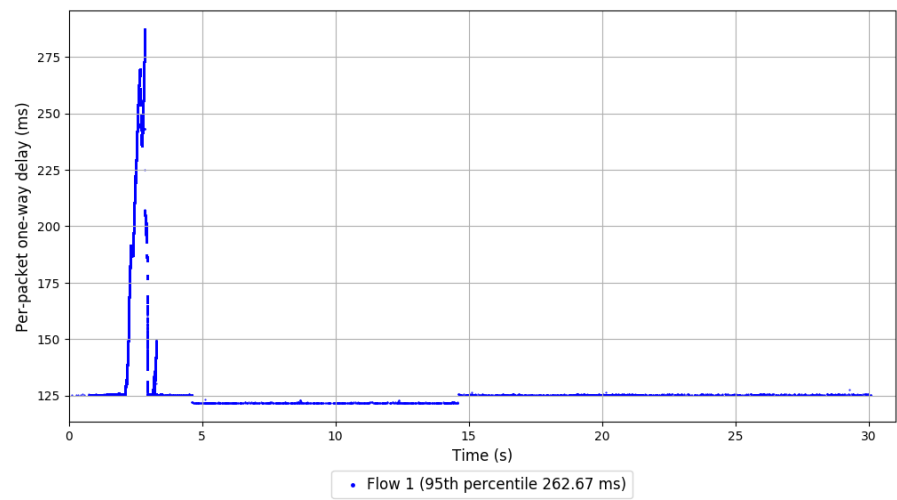
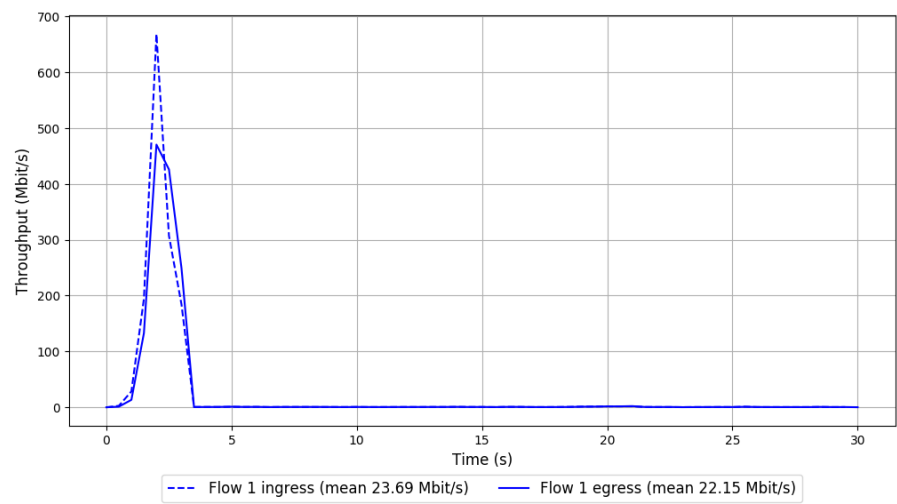


```
Run 2: Statistics of FillP

Start at: 2018-01-30 13:40:20
End at: 2018-01-30 13:40:50

# Below is generated by plot.py at 2018-01-30 17:07:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 22.15 Mbit/s
95th percentile per-packet one-way delay: 262.670 ms
Loss rate: 6.48%
-- Flow 1:
Average throughput: 22.15 Mbit/s
95th percentile per-packet one-way delay: 262.670 ms
Loss rate: 6.48%
```

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-01-30 13:54:44

End at: 2018-01-30 13:55:14

Below is generated by plot.py at 2018-01-30 17:07:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 22.28 Mbit/s

95th percentile per-packet one-way delay: 269.255 ms

Loss rate: 13.46%

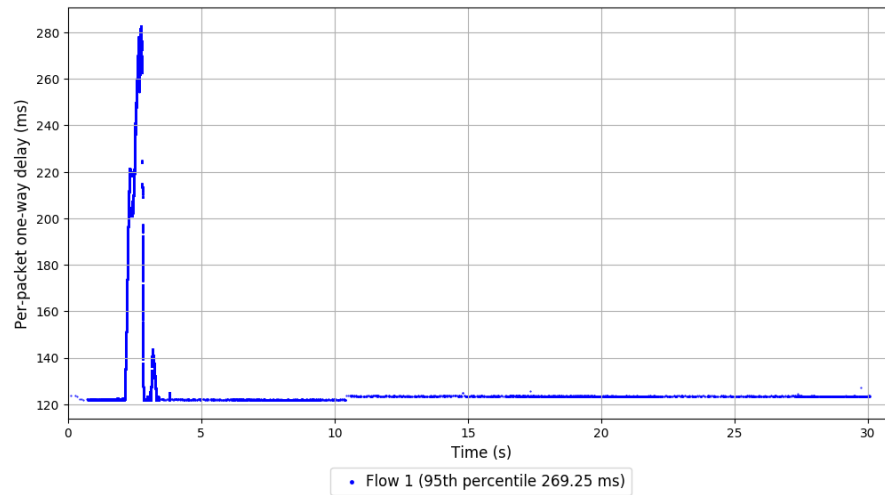
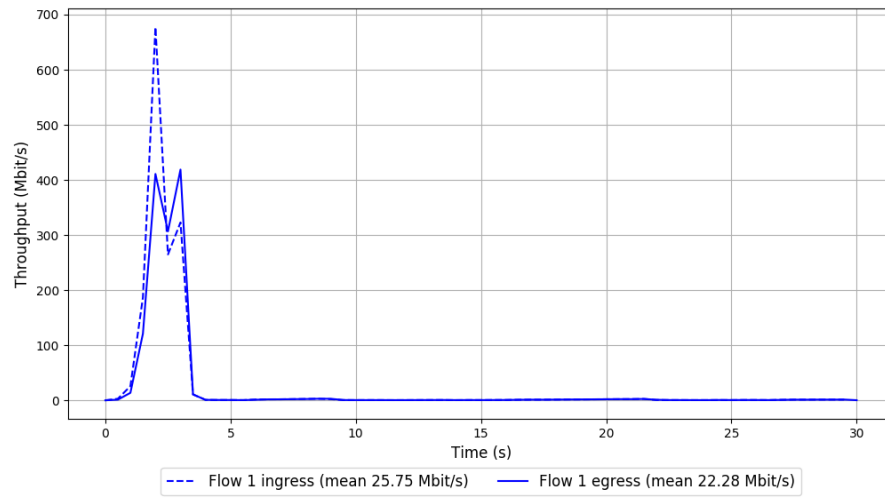
-- Flow 1:

Average throughput: 22.28 Mbit/s

95th percentile per-packet one-way delay: 269.255 ms

Loss rate: 13.46%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-01-30 14:10:05

End at: 2018-01-30 14:10:35

Below is generated by plot.py at 2018-01-30 17:07:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 24.80 Mbit/s

95th percentile per-packet one-way delay: 272.836 ms

Loss rate: 13.54%

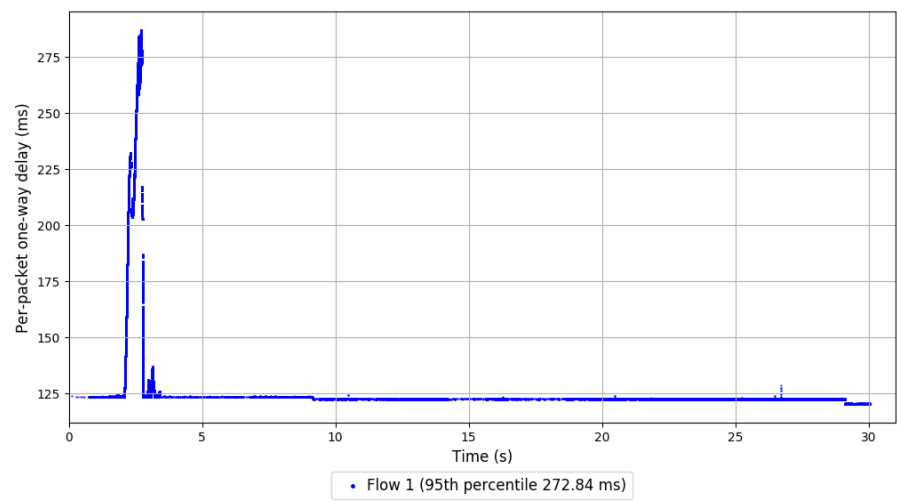
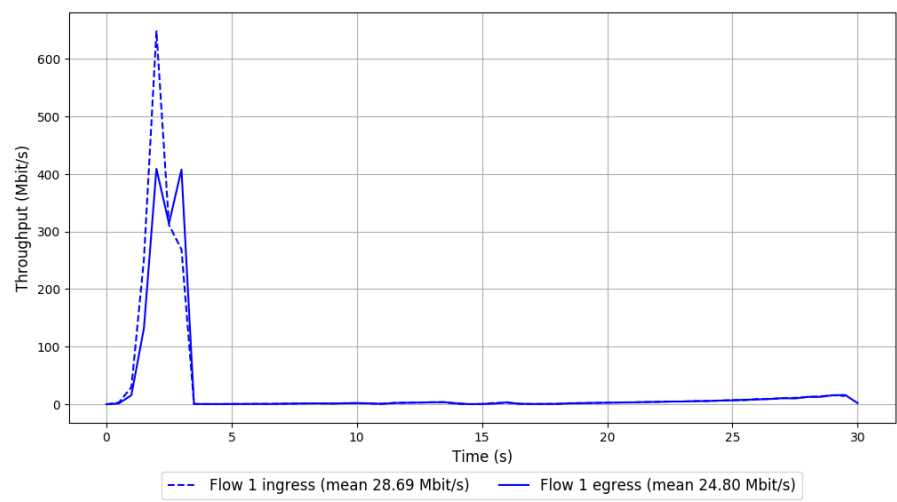
-- Flow 1:

Average throughput: 24.80 Mbit/s

95th percentile per-packet one-way delay: 272.836 ms

Loss rate: 13.54%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-01-30 14:25:11

End at: 2018-01-30 14:25:41

Below is generated by plot.py at 2018-01-30 17:07:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 23.66 Mbit/s

95th percentile per-packet one-way delay: 341.885 ms

Loss rate: 12.20%

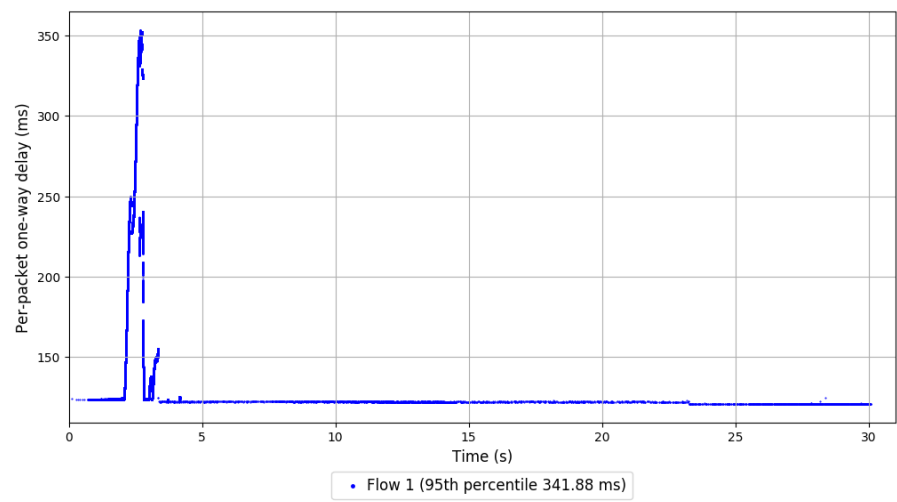
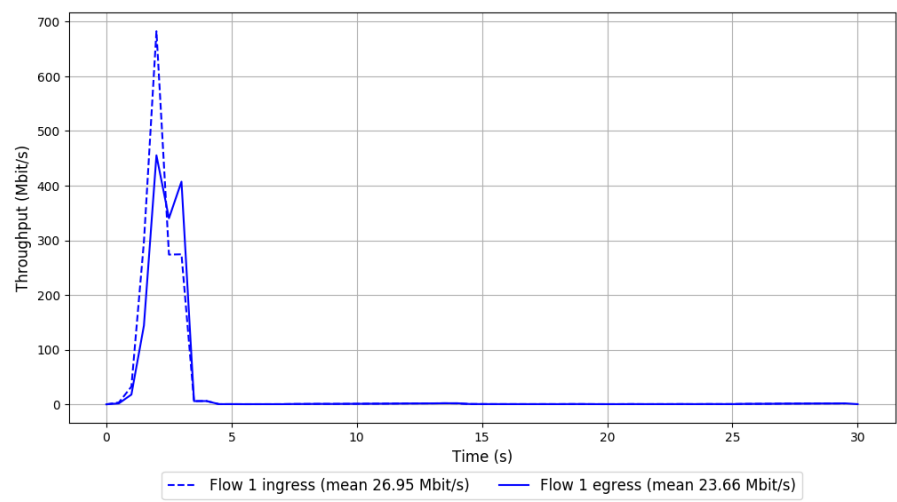
-- Flow 1:

Average throughput: 23.66 Mbit/s

95th percentile per-packet one-way delay: 341.885 ms

Loss rate: 12.20%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-01-30 14:40:14

End at: 2018-01-30 14:40:44

Below is generated by plot.py at 2018-01-30 17:07:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 22.94 Mbit/s

95th percentile per-packet one-way delay: 315.787 ms

Loss rate: 13.78%

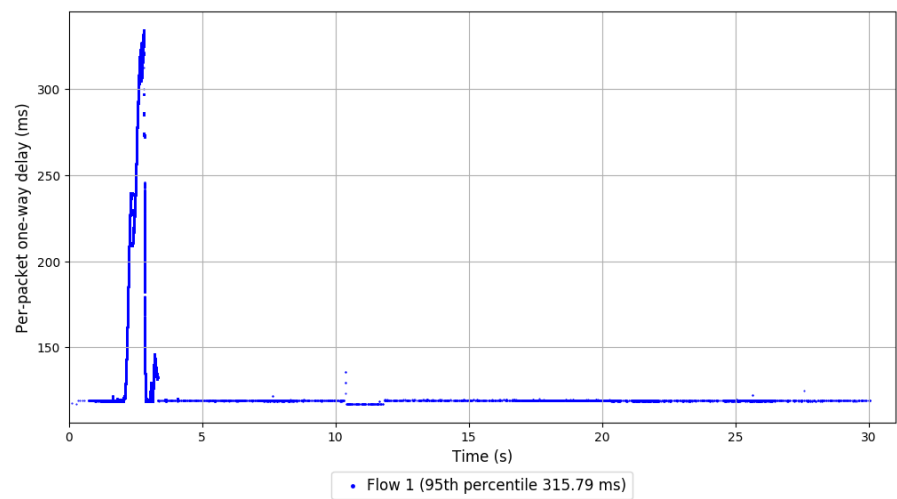
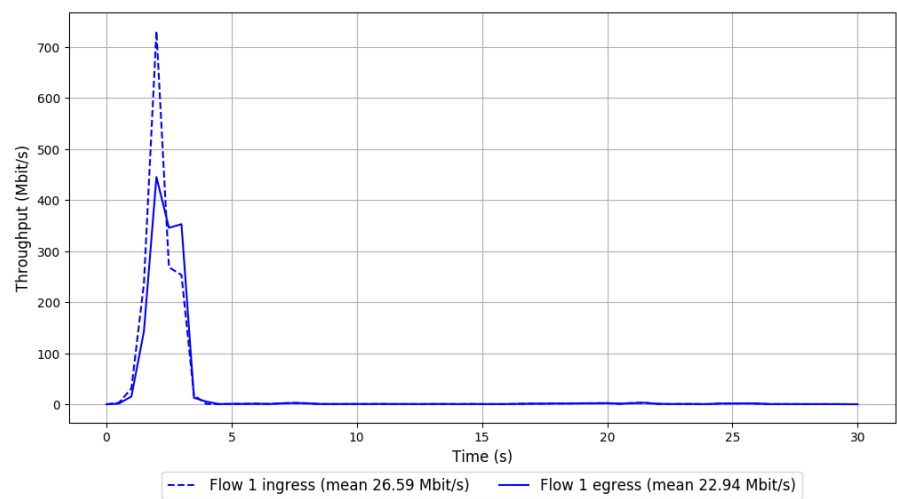
-- Flow 1:

Average throughput: 22.94 Mbit/s

95th percentile per-packet one-way delay: 315.787 ms

Loss rate: 13.78%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-01-30 14:55:33

End at: 2018-01-30 14:56:03

Below is generated by plot.py at 2018-01-30 17:07:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 22.43 Mbit/s

95th percentile per-packet one-way delay: 242.549 ms

Loss rate: 14.28%

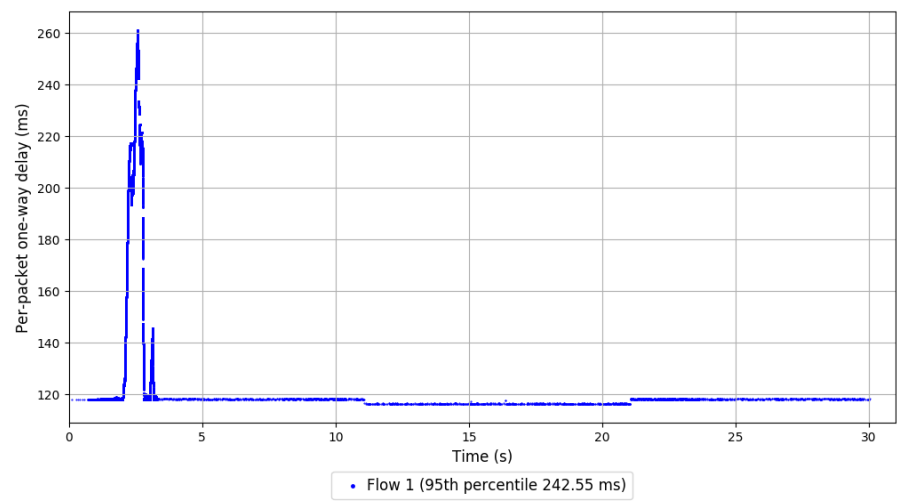
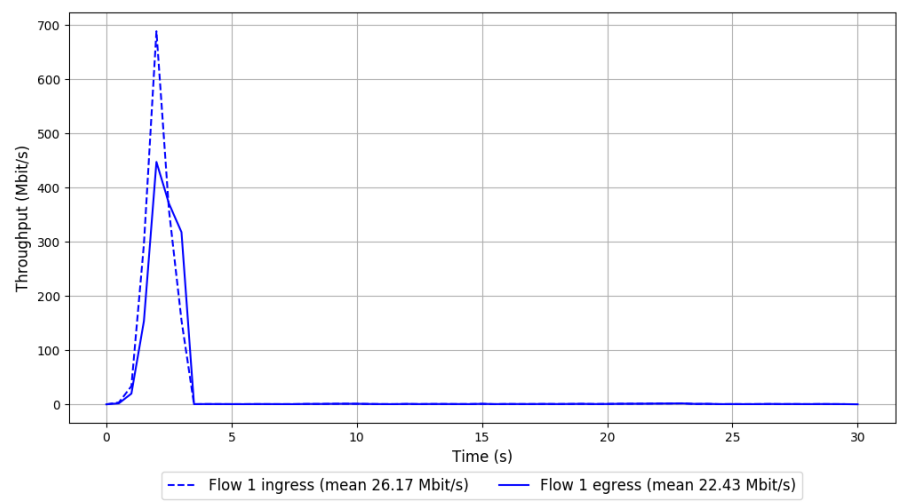
-- Flow 1:

Average throughput: 22.43 Mbit/s

95th percentile per-packet one-way delay: 242.549 ms

Loss rate: 14.28%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-01-30 15:10:27

End at: 2018-01-30 15:10:57

Below is generated by plot.py at 2018-01-30 17:07:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 21.89 Mbit/s

95th percentile per-packet one-way delay: 296.613 ms

Loss rate: 10.72%

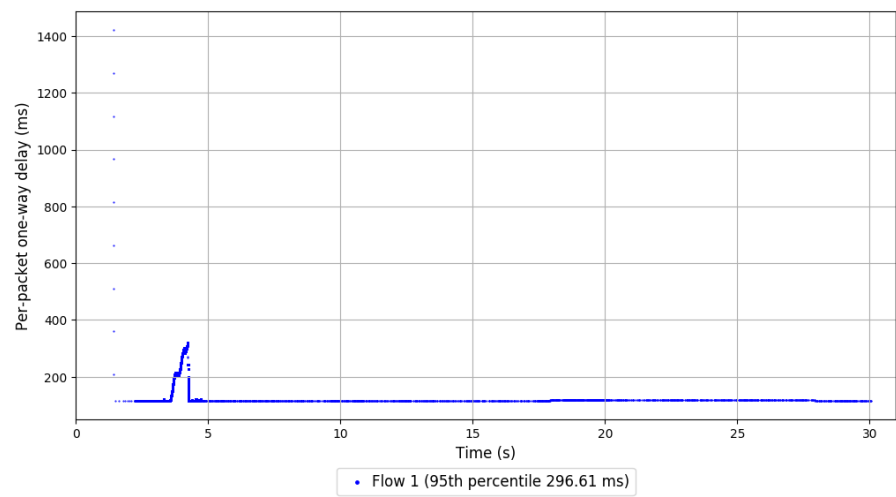
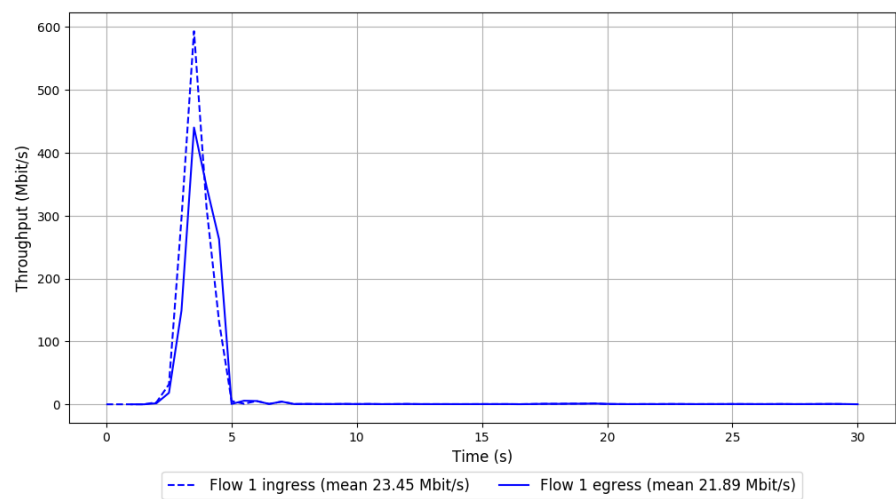
-- Flow 1:

Average throughput: 21.89 Mbit/s

95th percentile per-packet one-way delay: 296.613 ms

Loss rate: 10.72%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-01-30 15:24:57

End at: 2018-01-30 15:25:27

Below is generated by plot.py at 2018-01-30 17:07:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 25.34 Mbit/s

95th percentile per-packet one-way delay: 261.639 ms

Loss rate: 17.68%

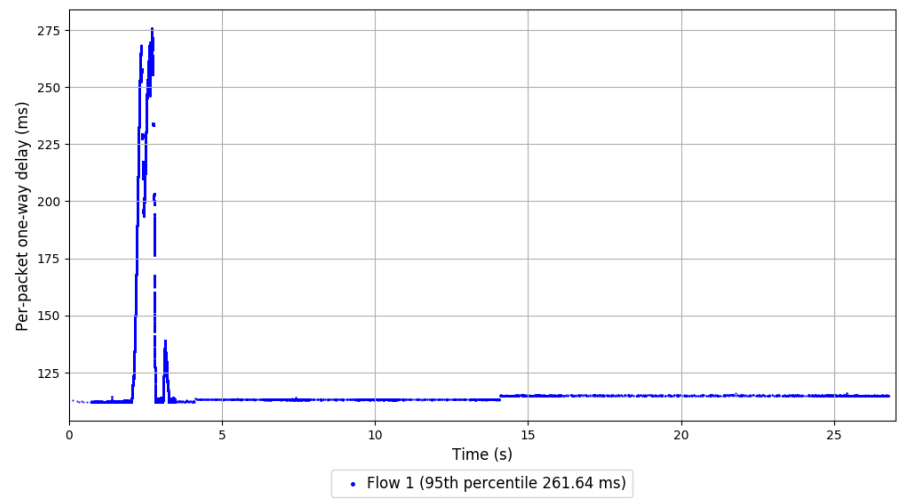
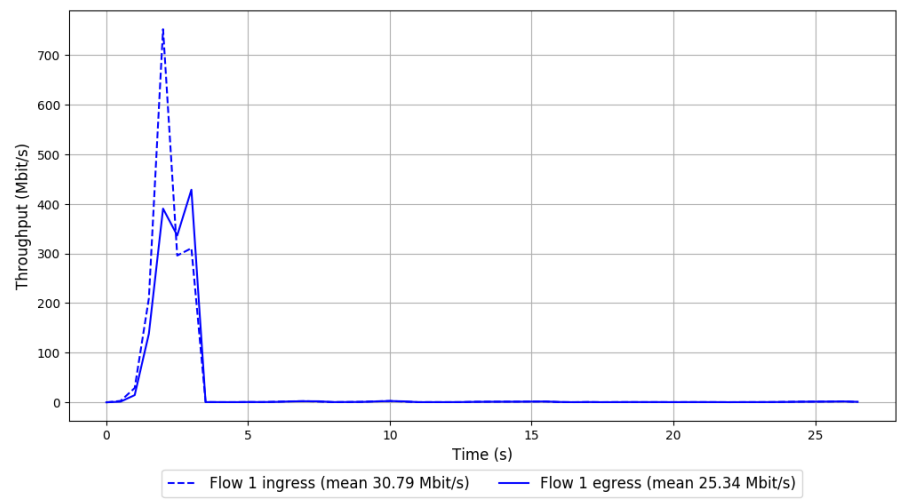
-- Flow 1:

Average throughput: 25.34 Mbit/s

95th percentile per-packet one-way delay: 261.639 ms

Loss rate: 17.68%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-01-30 15:39:33

End at: 2018-01-30 15:40:03

Below is generated by plot.py at 2018-01-30 17:07:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 22.77 Mbit/s

95th percentile per-packet one-way delay: 317.219 ms

Loss rate: 10.11%

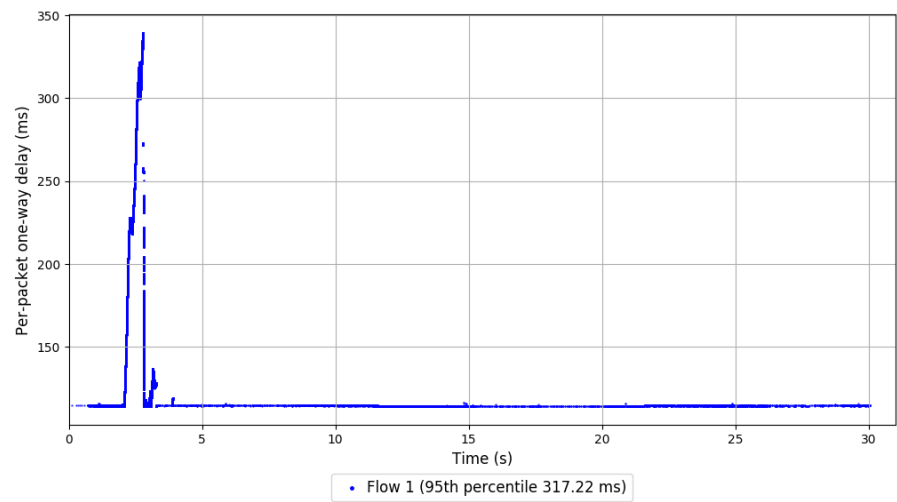
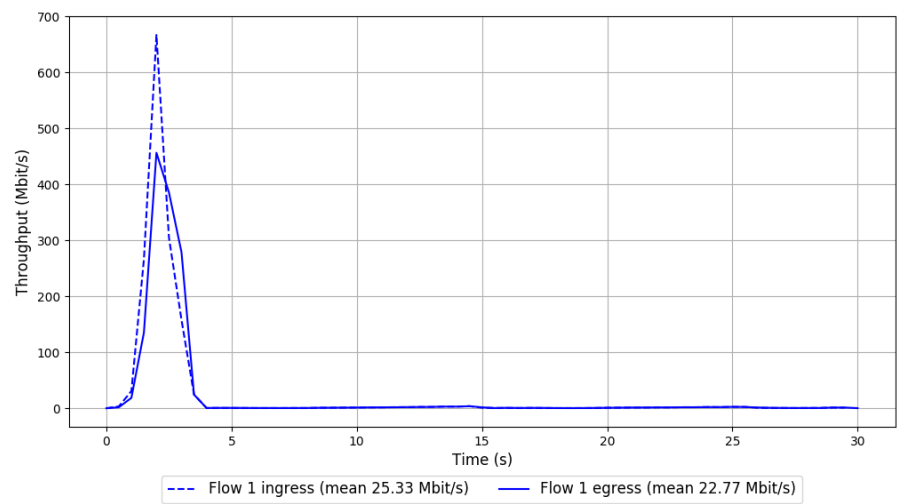
-- Flow 1:

Average throughput: 22.77 Mbit/s

95th percentile per-packet one-way delay: 317.219 ms

Loss rate: 10.11%

Run 10: Report of FillP — Data Link

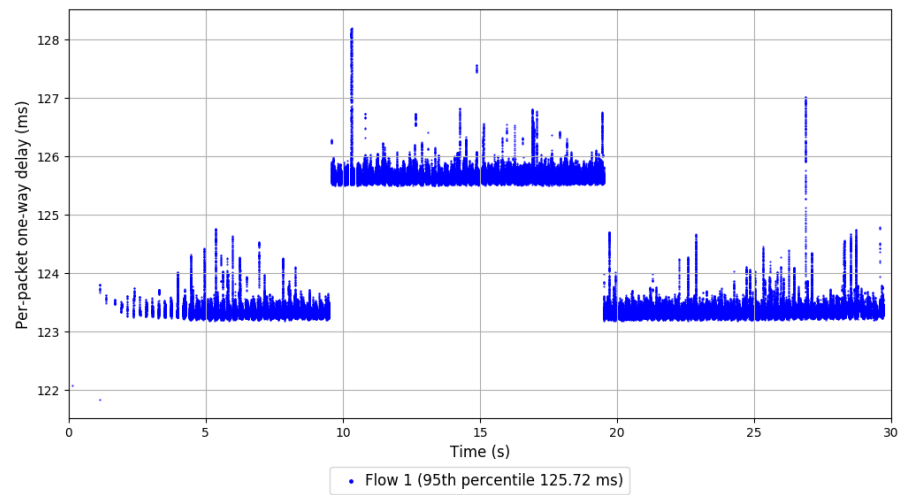
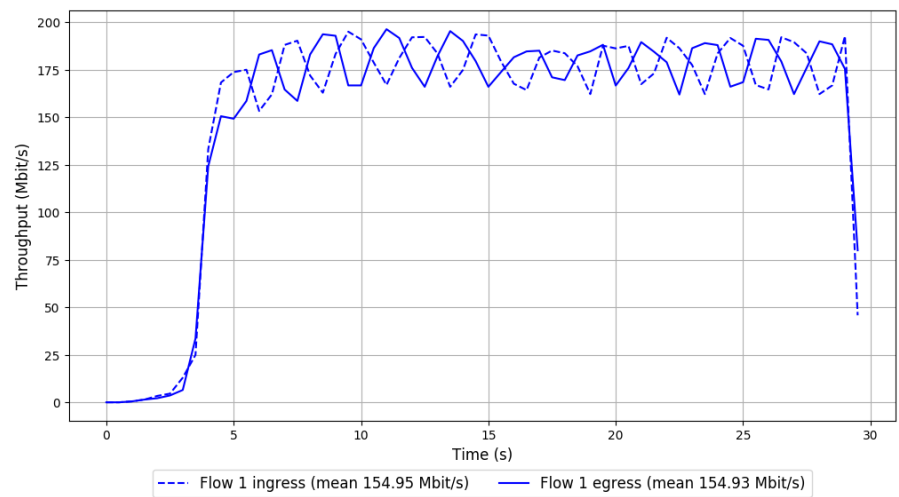


```
Run 1: Statistics of Indigo-1-32

Start at: 2018-01-30 13:29:45
End at: 2018-01-30 13:30:15

# Below is generated by plot.py at 2018-01-30 17:09:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 154.93 Mbit/s
95th percentile per-packet one-way delay: 125.720 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 154.93 Mbit/s
95th percentile per-packet one-way delay: 125.720 ms
Loss rate: 0.01%
```

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



Run 2: Statistics of Indigo-1-32

Start at: 2018-01-30 13:44:22

End at: 2018-01-30 13:44:52

Below is generated by plot.py at 2018-01-30 17:09:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 154.37 Mbit/s

95th percentile per-packet one-way delay: 126.572 ms

Loss rate: 0.02%

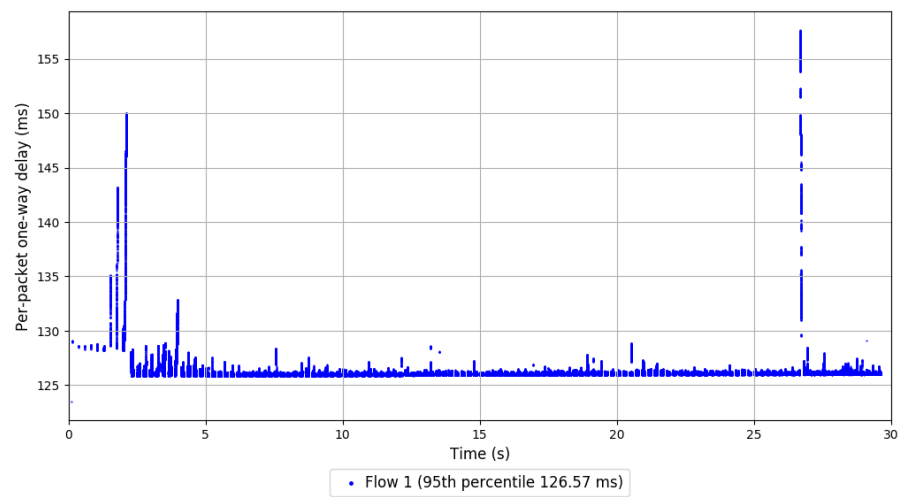
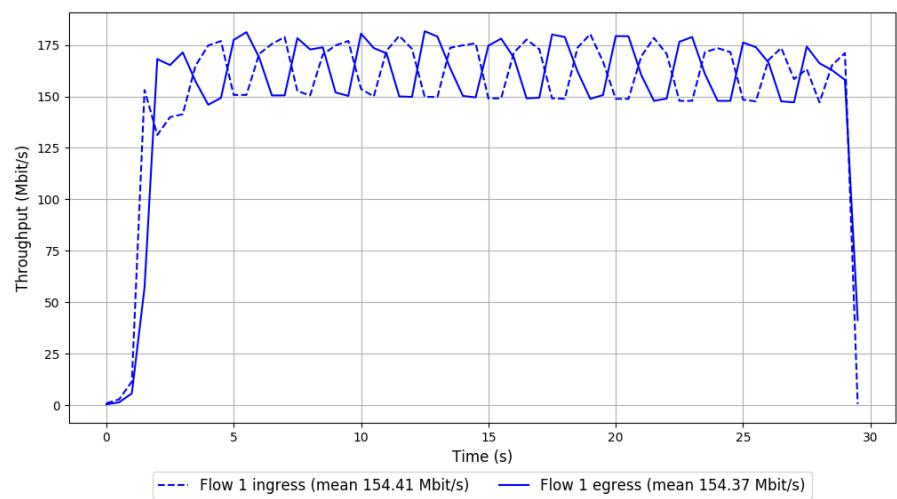
-- Flow 1:

Average throughput: 154.37 Mbit/s

95th percentile per-packet one-way delay: 126.572 ms

Loss rate: 0.02%

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



Run 3: Statistics of Indigo-1-32

Start at: 2018-01-30 13:58:51

End at: 2018-01-30 13:59:21

Below is generated by plot.py at 2018-01-30 17:09:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 151.37 Mbit/s

95th percentile per-packet one-way delay: 122.840 ms

Loss rate: 0.00%

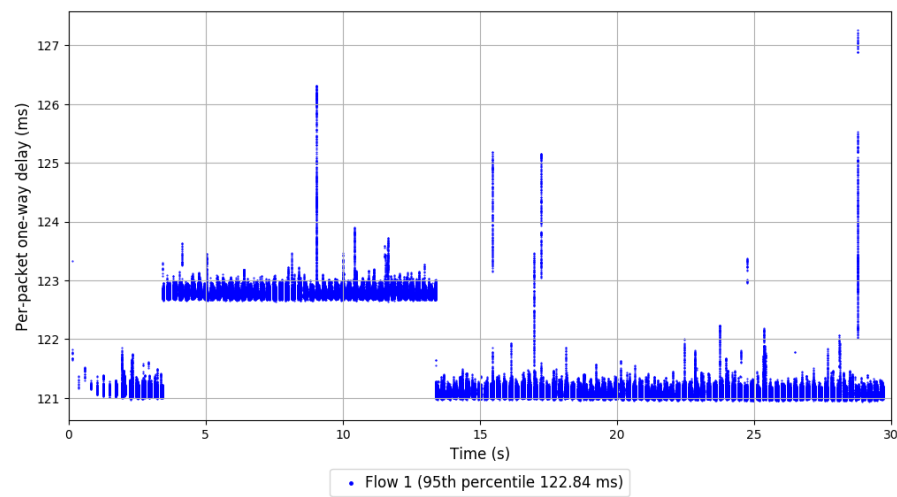
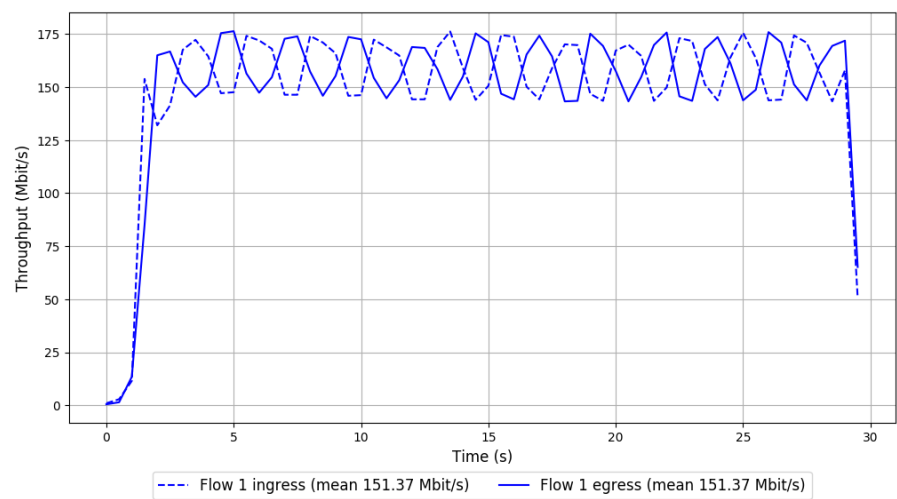
-- Flow 1:

Average throughput: 151.37 Mbit/s

95th percentile per-packet one-way delay: 122.840 ms

Loss rate: 0.00%

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



Run 4: Statistics of Indigo-1-32

Start at: 2018-01-30 14:14:10

End at: 2018-01-30 14:14:40

Below is generated by plot.py at 2018-01-30 17:09:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 159.87 Mbit/s

95th percentile per-packet one-way delay: 121.808 ms

Loss rate: 0.00%

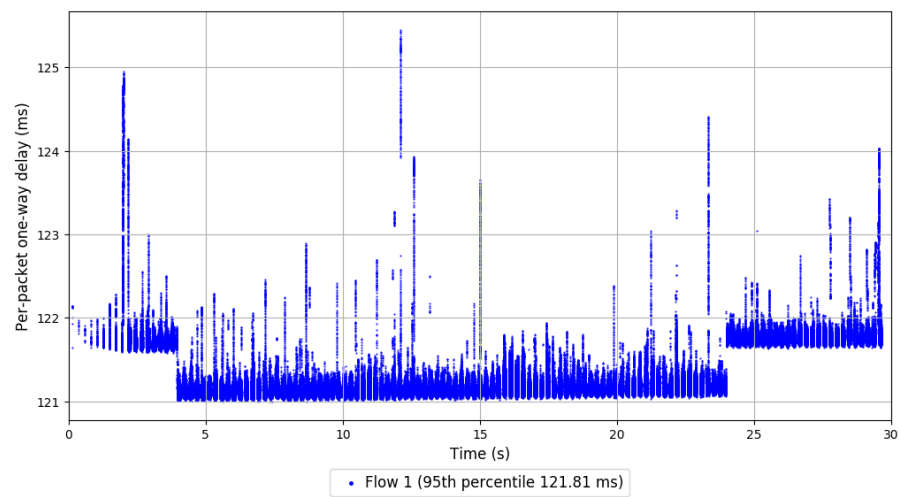
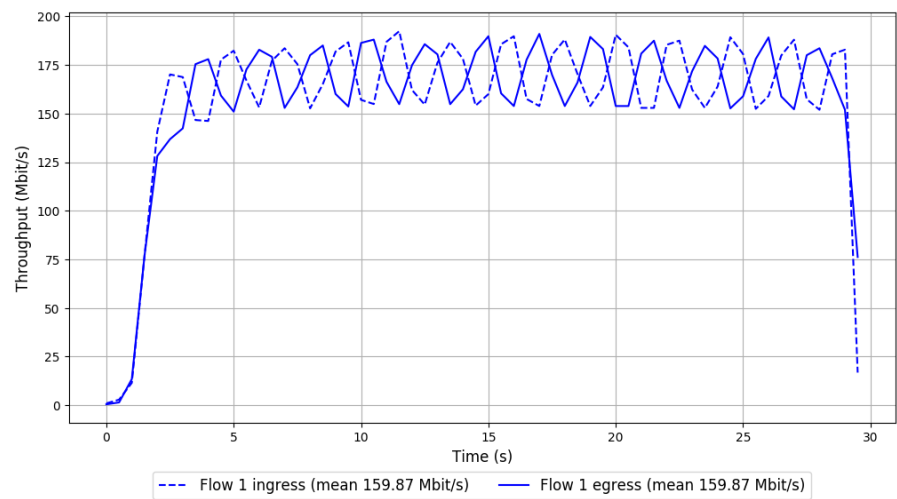
-- Flow 1:

Average throughput: 159.87 Mbit/s

95th percentile per-packet one-way delay: 121.808 ms

Loss rate: 0.00%

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



Run 5: Statistics of Indigo-1-32

Start at: 2018-01-30 14:29:16

End at: 2018-01-30 14:29:46

Below is generated by plot.py at 2018-01-30 17:09:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 146.24 Mbit/s

95th percentile per-packet one-way delay: 122.296 ms

Loss rate: 0.02%

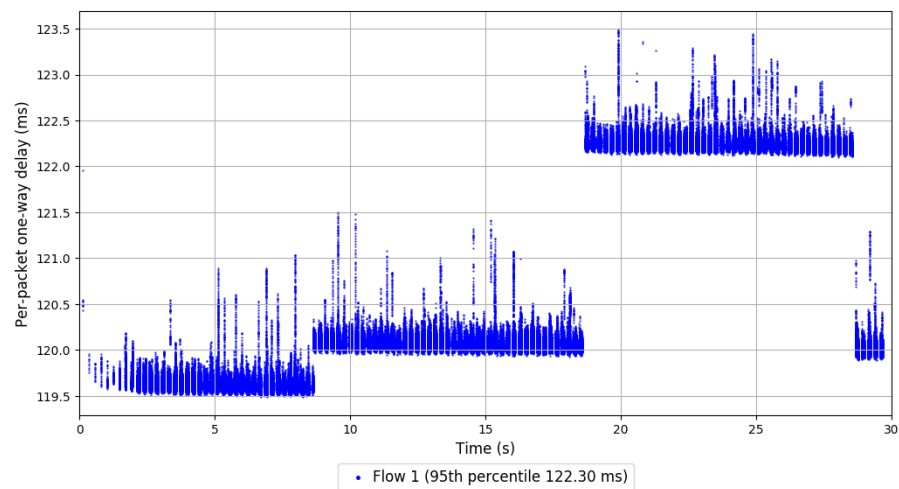
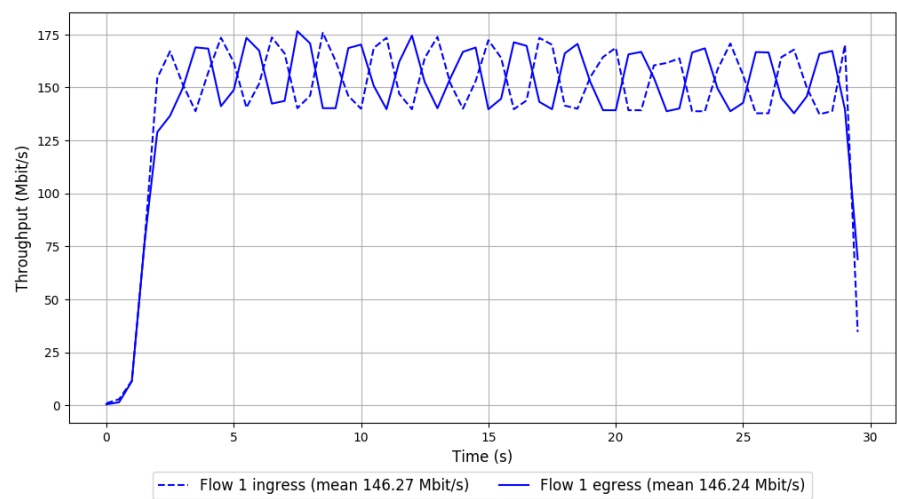
-- Flow 1:

Average throughput: 146.24 Mbit/s

95th percentile per-packet one-way delay: 122.296 ms

Loss rate: 0.02%

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



Run 6: Statistics of Indigo-1-32

Start at: 2018-01-30 14:44:21

End at: 2018-01-30 14:44:51

Below is generated by plot.py at 2018-01-30 17:09:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 154.20 Mbit/s

95th percentile per-packet one-way delay: 117.847 ms

Loss rate: 0.00%

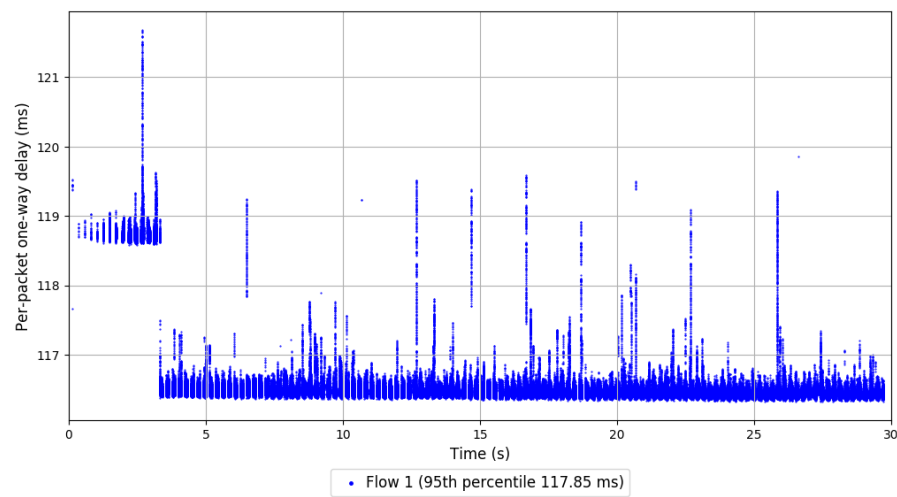
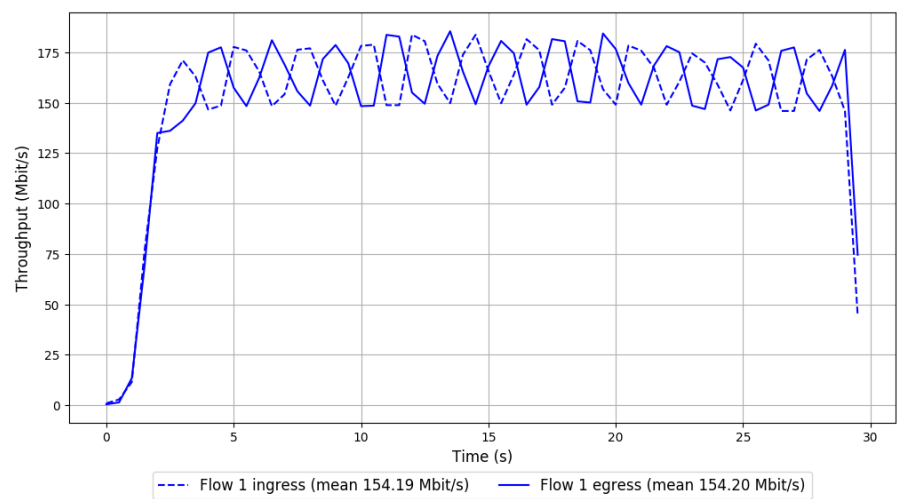
-- Flow 1:

Average throughput: 154.20 Mbit/s

95th percentile per-packet one-way delay: 117.847 ms

Loss rate: 0.00%

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



Run 7: Statistics of Indigo-1-32

Start at: 2018-01-30 14:59:40

End at: 2018-01-30 15:00:10

Below is generated by plot.py at 2018-01-30 17:10:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 168.77 Mbit/s

95th percentile per-packet one-way delay: 116.290 ms

Loss rate: 0.00%

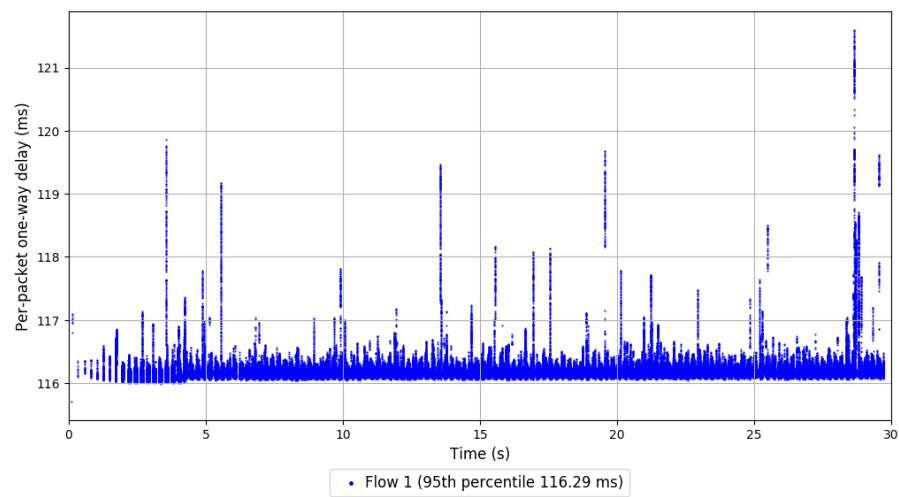
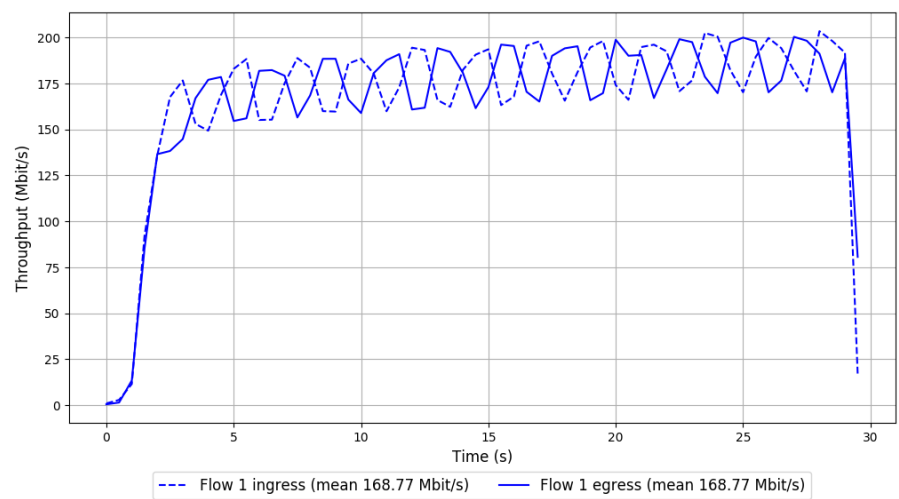
-- Flow 1:

Average throughput: 168.77 Mbit/s

95th percentile per-packet one-way delay: 116.290 ms

Loss rate: 0.00%

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



Run 8: Statistics of Indigo-1-32

Start at: 2018-01-30 15:14:24

End at: 2018-01-30 15:14:54

Below is generated by plot.py at 2018-01-30 17:10:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 158.40 Mbit/s

95th percentile per-packet one-way delay: 115.855 ms

Loss rate: 0.07%

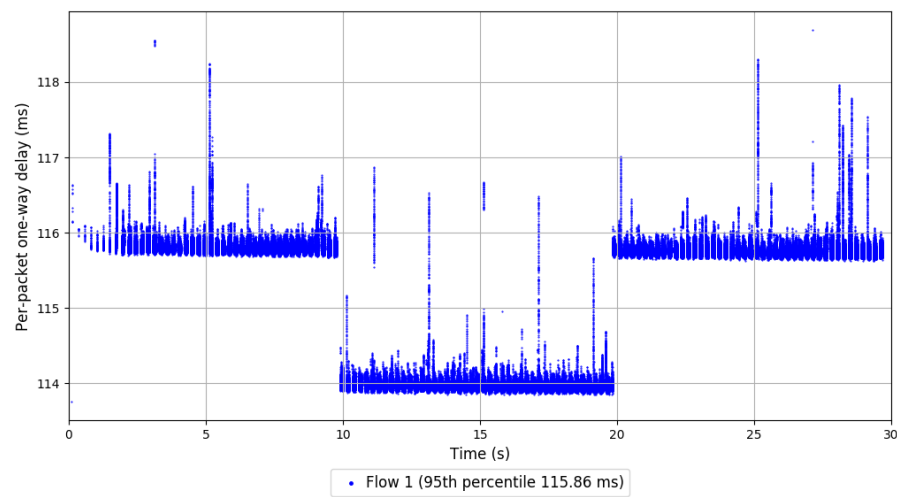
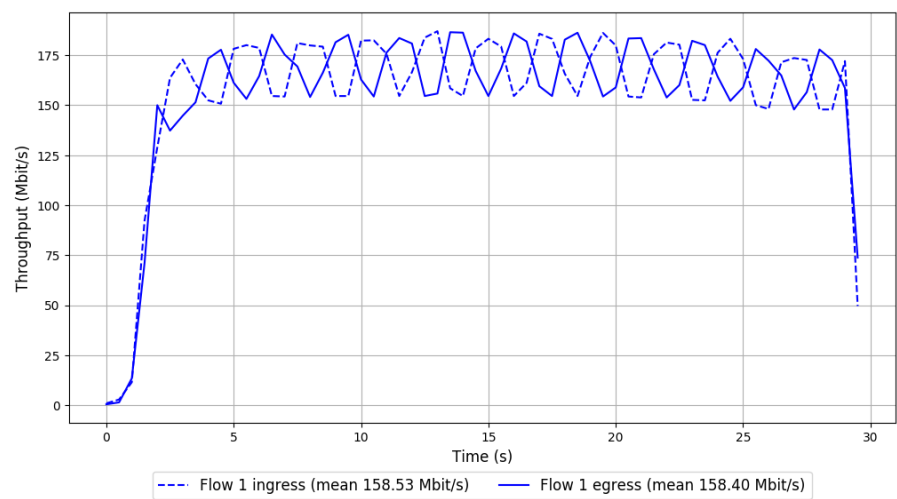
-- Flow 1:

Average throughput: 158.40 Mbit/s

95th percentile per-packet one-way delay: 115.855 ms

Loss rate: 0.07%

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



Run 9: Statistics of Indigo-1-32

Start at: 2018-01-30 15:28:58

End at: 2018-01-30 15:29:28

Below is generated by plot.py at 2018-01-30 17:11:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 148.13 Mbit/s

95th percentile per-packet one-way delay: 114.856 ms

Loss rate: 0.00%

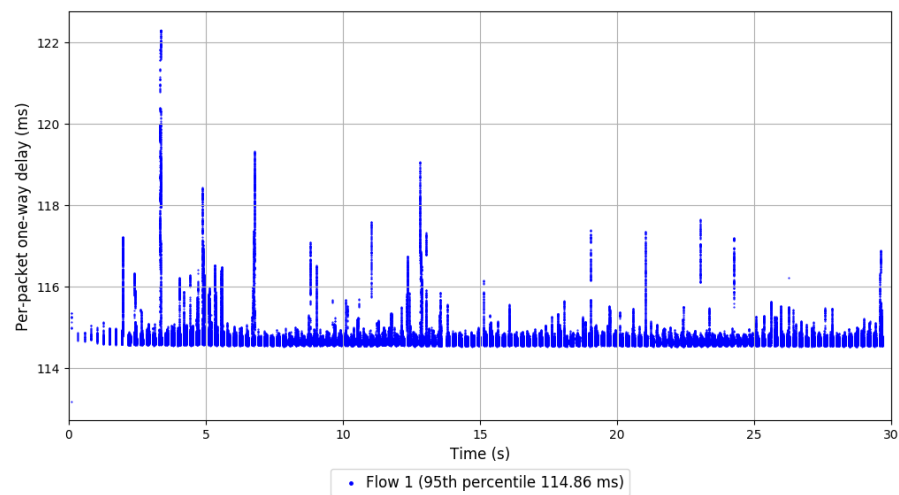
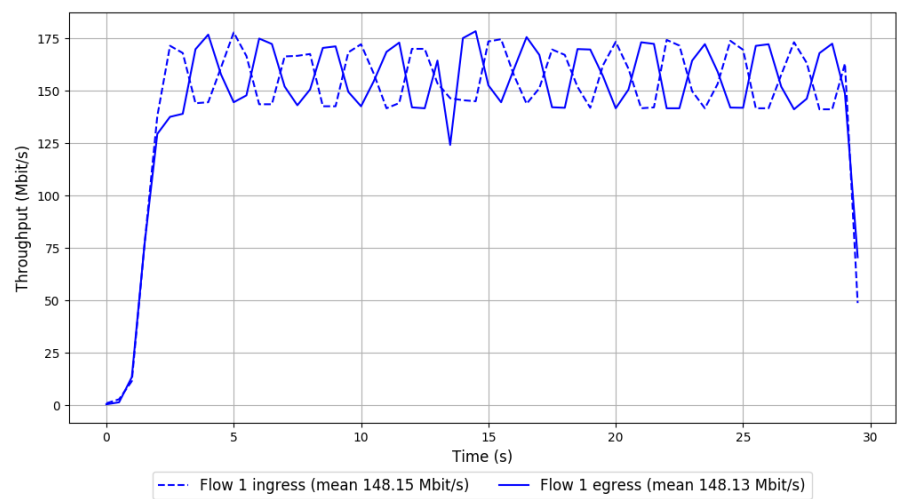
-- Flow 1:

Average throughput: 148.13 Mbit/s

95th percentile per-packet one-way delay: 114.856 ms

Loss rate: 0.00%

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



Run 10: Statistics of Indigo-1-32

Start at: 2018-01-30 15:43:33

End at: 2018-01-30 15:44:03

Below is generated by plot.py at 2018-01-30 17:11:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 150.11 Mbit/s

95th percentile per-packet one-way delay: 111.932 ms

Loss rate: 0.00%

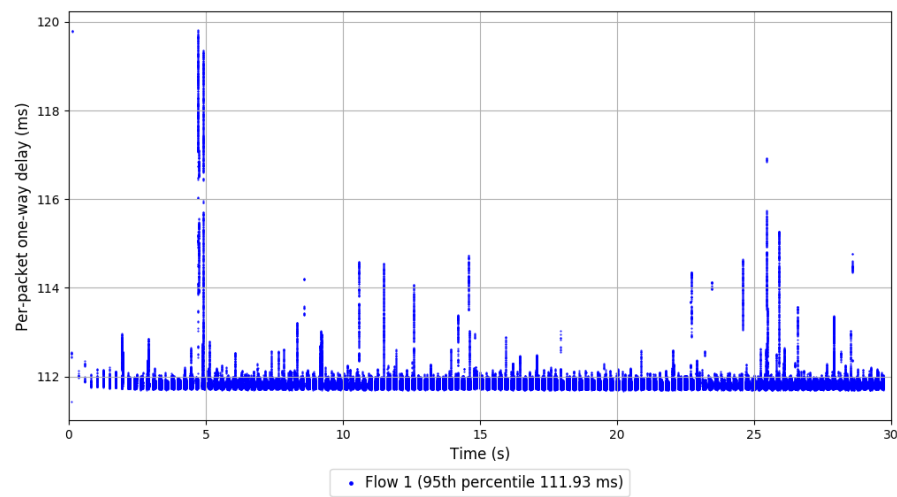
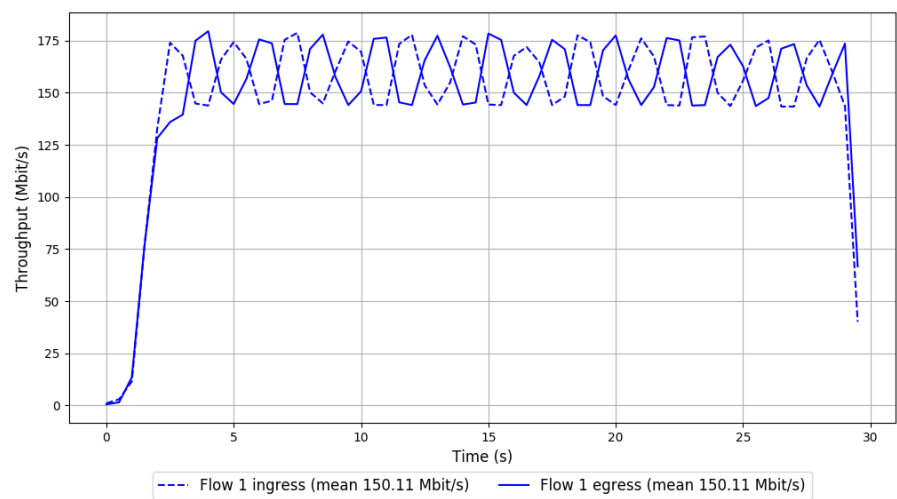
-- Flow 1:

Average throughput: 150.11 Mbit/s

95th percentile per-packet one-way delay: 111.932 ms

Loss rate: 0.00%

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

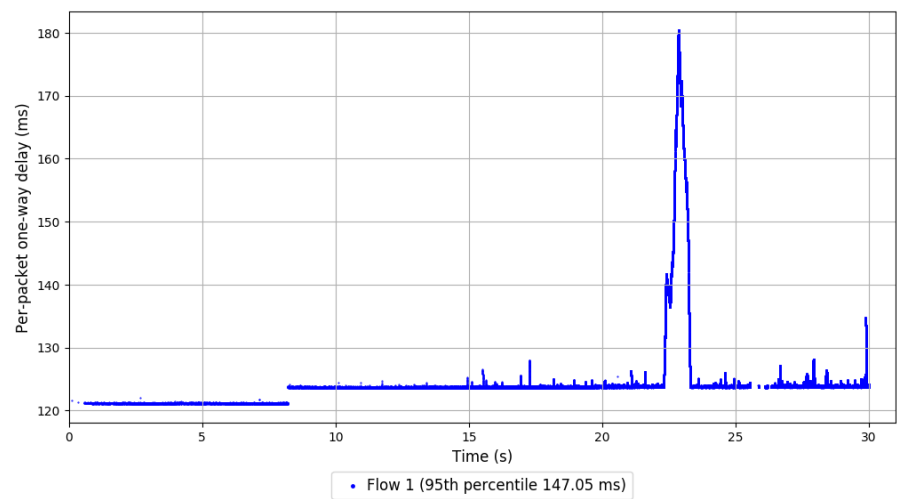
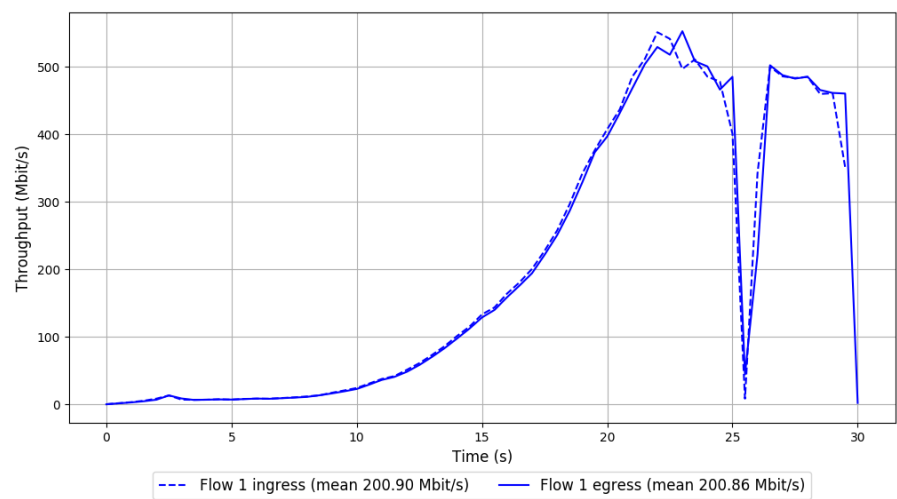


```
Run 1: Statistics of Vivace-latency

Start at: 2018-01-30 13:30:36
End at: 2018-01-30 13:31:06

# Below is generated by plot.py at 2018-01-30 17:12:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 200.86 Mbit/s
95th percentile per-packet one-way delay: 147.049 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 200.86 Mbit/s
95th percentile per-packet one-way delay: 147.049 ms
Loss rate: 0.02%
```

Run 1: Report of Vivace-latency — Data Link



Run 2: Statistics of Vivace-latency

Start at: 2018-01-30 13:45:13

End at: 2018-01-30 13:45:43

Below is generated by plot.py at 2018-01-30 17:12:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 187.38 Mbit/s

95th percentile per-packet one-way delay: 145.471 ms

Loss rate: 0.24%

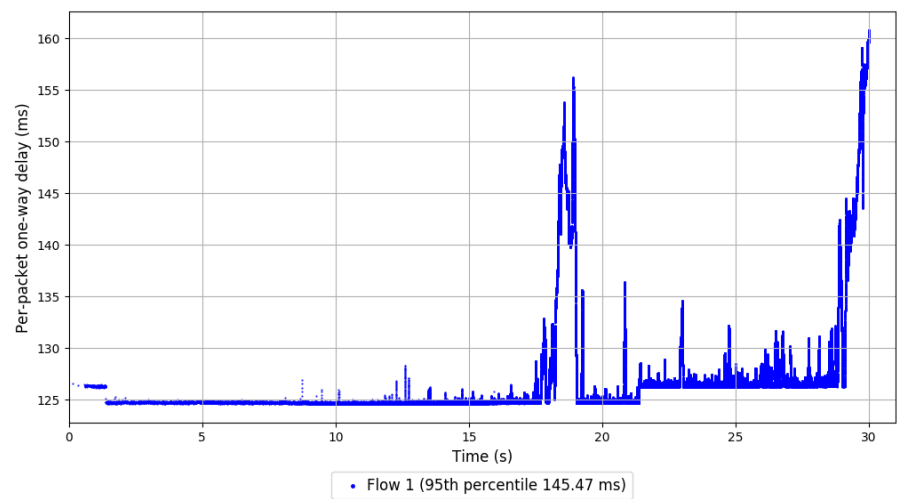
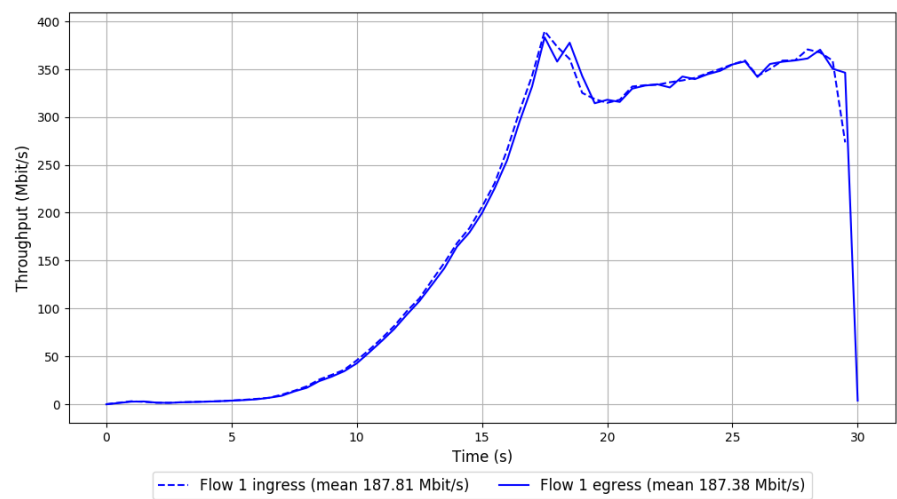
-- Flow 1:

Average throughput: 187.38 Mbit/s

95th percentile per-packet one-way delay: 145.471 ms

Loss rate: 0.24%

Run 2: Report of Vivace-latency — Data Link



Run 3: Statistics of Vivace-latency

Start at: 2018-01-30 13:59:42

End at: 2018-01-30 14:00:12

Below is generated by plot.py at 2018-01-30 17:15:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 360.76 Mbit/s

95th percentile per-packet one-way delay: 150.045 ms

Loss rate: 0.09%

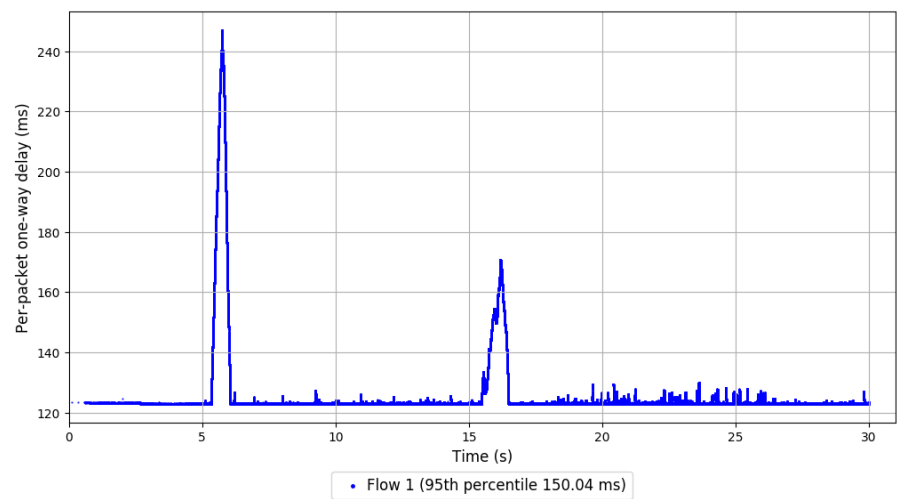
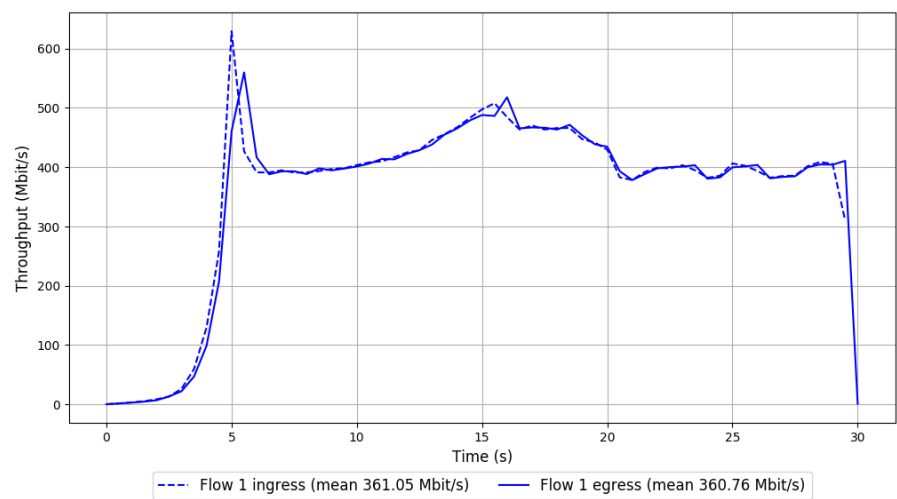
-- Flow 1:

Average throughput: 360.76 Mbit/s

95th percentile per-packet one-way delay: 150.045 ms

Loss rate: 0.09%

Run 3: Report of Vivace-latency — Data Link



Run 4: Statistics of Vivace-latency

Start at: 2018-01-30 14:15:02

End at: 2018-01-30 14:15:32

Below is generated by plot.py at 2018-01-30 17:15:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 353.30 Mbit/s

95th percentile per-packet one-way delay: 157.436 ms

Loss rate: 0.01%

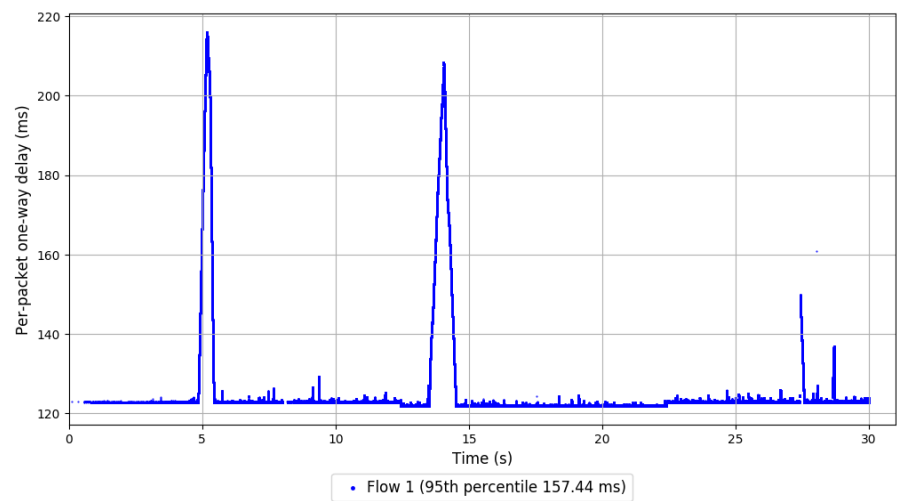
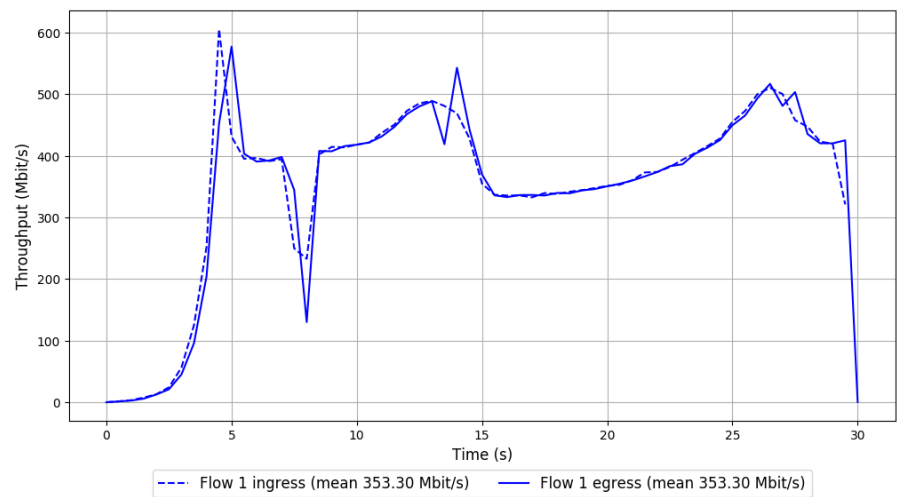
-- Flow 1:

Average throughput: 353.30 Mbit/s

95th percentile per-packet one-way delay: 157.436 ms

Loss rate: 0.01%

Run 4: Report of Vivace-latency — Data Link



Run 5: Statistics of Vivace-latency

Start at: 2018-01-30 14:30:06

End at: 2018-01-30 14:30:36

Below is generated by plot.py at 2018-01-30 17:16:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 369.87 Mbit/s

95th percentile per-packet one-way delay: 187.194 ms

Loss rate: 0.73%

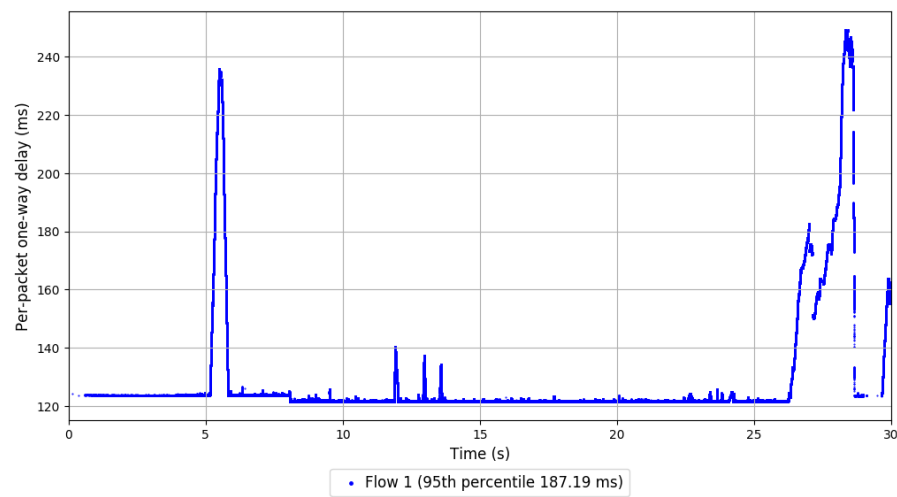
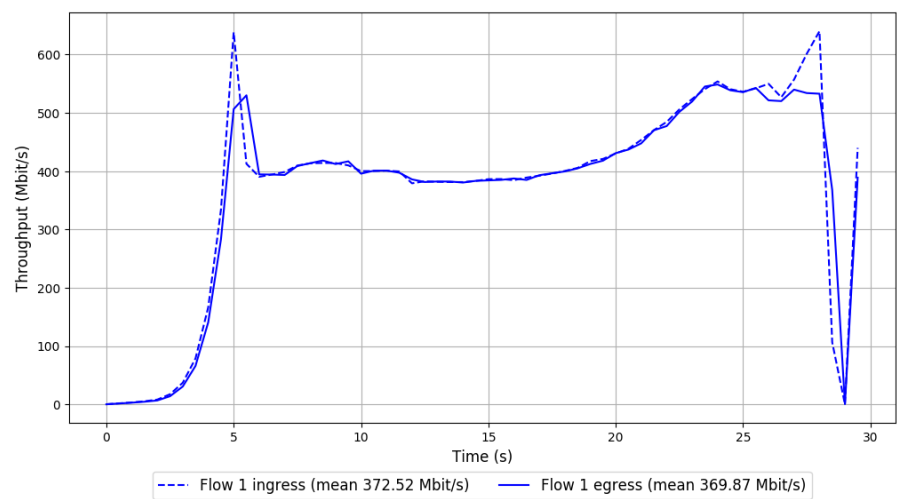
-- Flow 1:

Average throughput: 369.87 Mbit/s

95th percentile per-packet one-way delay: 187.194 ms

Loss rate: 0.73%

Run 5: Report of Vivace-latency — Data Link



Run 6: Statistics of Vivace-latency

Start at: 2018-01-30 14:45:12

End at: 2018-01-30 14:45:42

Below is generated by plot.py at 2018-01-30 17:16:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 394.21 Mbit/s

95th percentile per-packet one-way delay: 127.335 ms

Loss rate: 0.07%

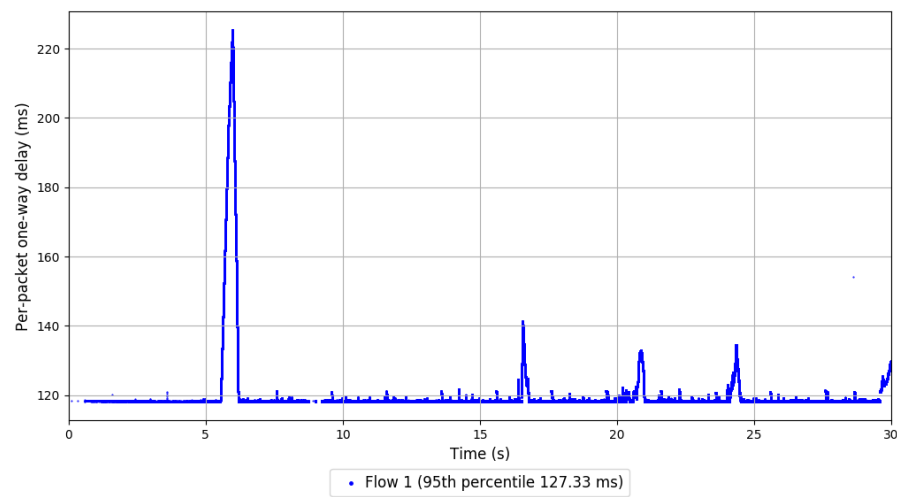
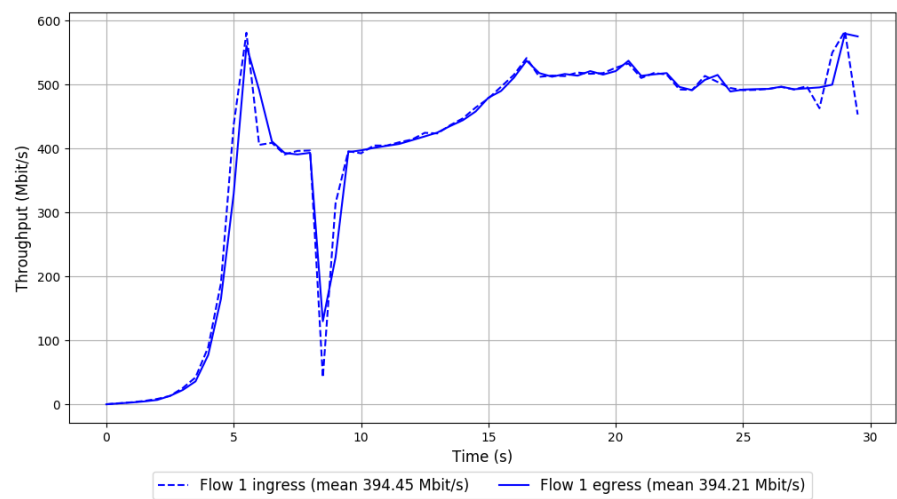
-- Flow 1:

Average throughput: 394.21 Mbit/s

95th percentile per-packet one-way delay: 127.335 ms

Loss rate: 0.07%

Run 6: Report of Vivace-latency — Data Link



Run 7: Statistics of Vivace-latency

Start at: 2018-01-30 15:00:34

End at: 2018-01-30 15:01:04

Below is generated by plot.py at 2018-01-30 17:17:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 389.55 Mbit/s

95th percentile per-packet one-way delay: 141.723 ms

Loss rate: 0.02%

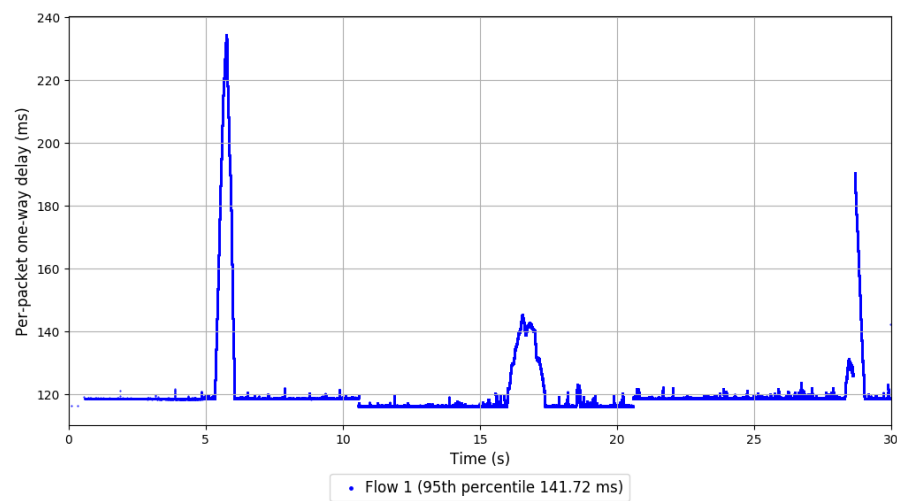
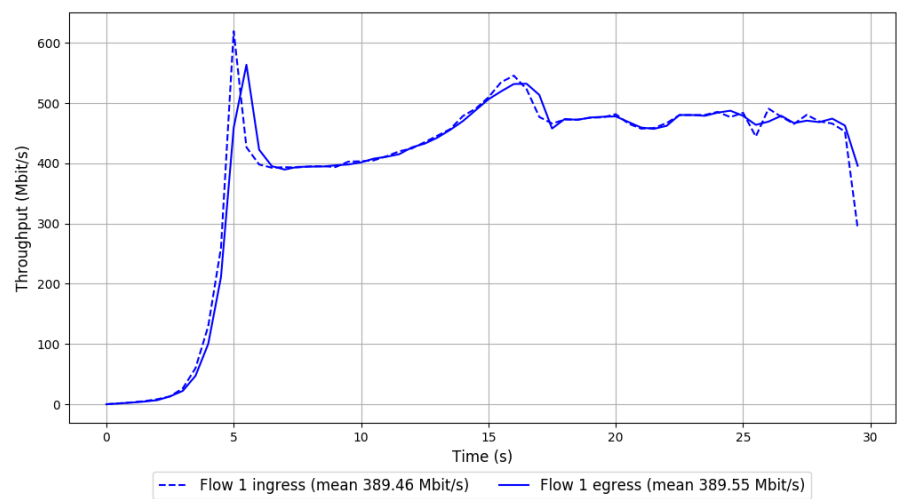
-- Flow 1:

Average throughput: 389.55 Mbit/s

95th percentile per-packet one-way delay: 141.723 ms

Loss rate: 0.02%

Run 7: Report of Vivace-latency — Data Link



Run 8: Statistics of Vivace-latency

Start at: 2018-01-30 15:15:16

End at: 2018-01-30 15:15:46

Below is generated by plot.py at 2018-01-30 17:17:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 376.50 Mbit/s

95th percentile per-packet one-way delay: 140.635 ms

Loss rate: 0.00%

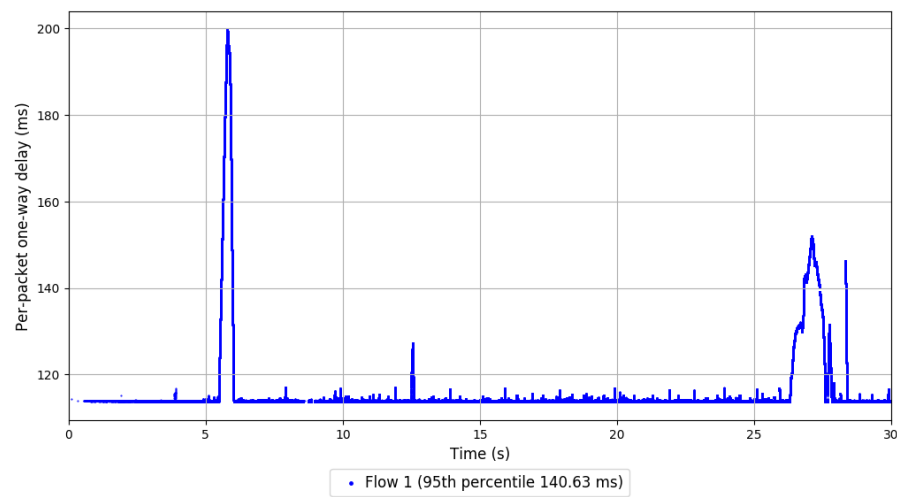
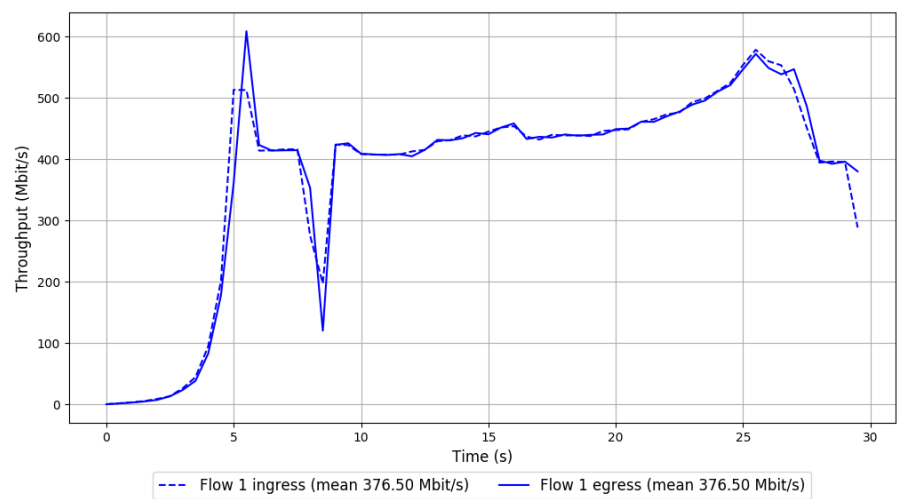
-- Flow 1:

Average throughput: 376.50 Mbit/s

95th percentile per-packet one-way delay: 140.635 ms

Loss rate: 0.00%

Run 8: Report of Vivace-latency — Data Link



Run 9: Statistics of Vivace-latency

Start at: 2018-01-30 15:29:49

End at: 2018-01-30 15:30:19

Below is generated by plot.py at 2018-01-30 17:18:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 356.62 Mbit/s

95th percentile per-packet one-way delay: 113.798 ms

Loss rate: 0.00%

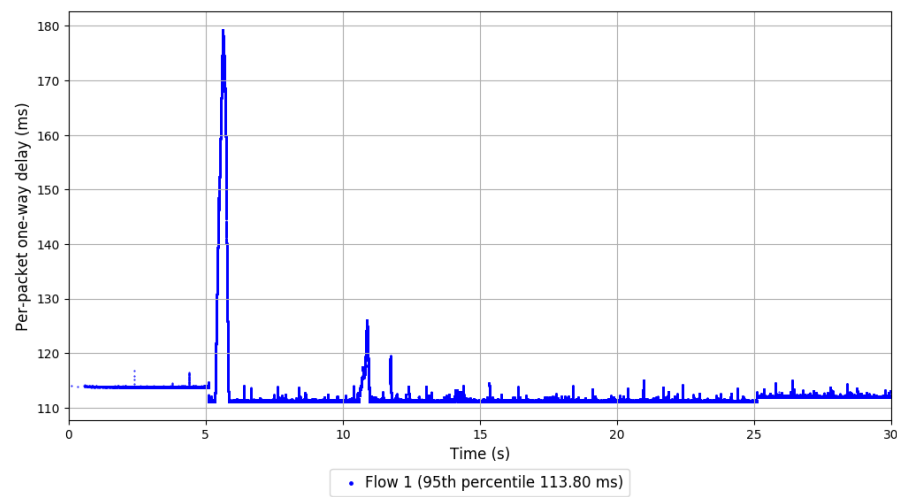
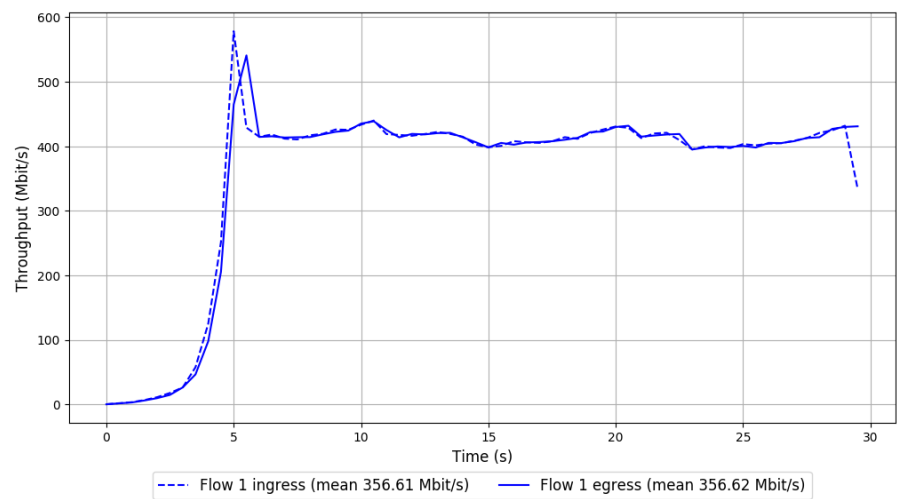
-- Flow 1:

Average throughput: 356.62 Mbit/s

95th percentile per-packet one-way delay: 113.798 ms

Loss rate: 0.00%

Run 9: Report of Vivace-latency — Data Link



Run 10: Statistics of Vivace-latency

Start at: 2018-01-30 15:44:24

End at: 2018-01-30 15:44:54

Below is generated by plot.py at 2018-01-30 17:18:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 363.57 Mbit/s

95th percentile per-packet one-way delay: 133.674 ms

Loss rate: 0.21%

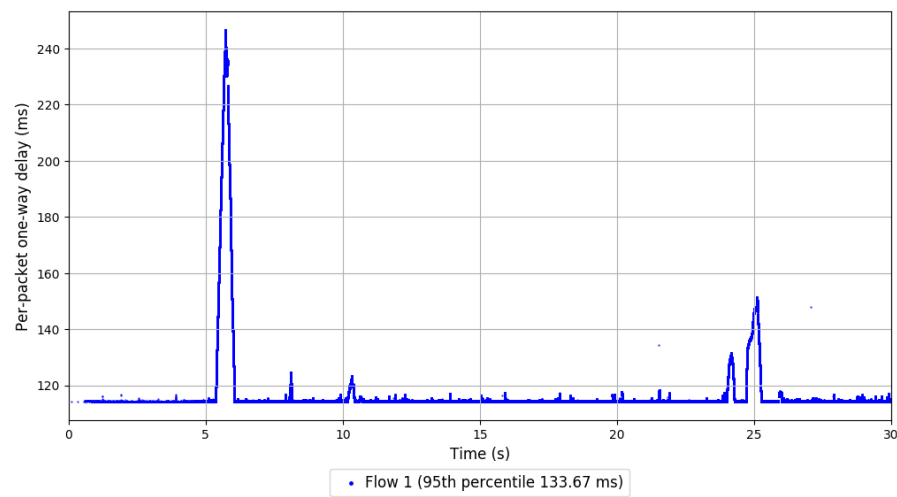
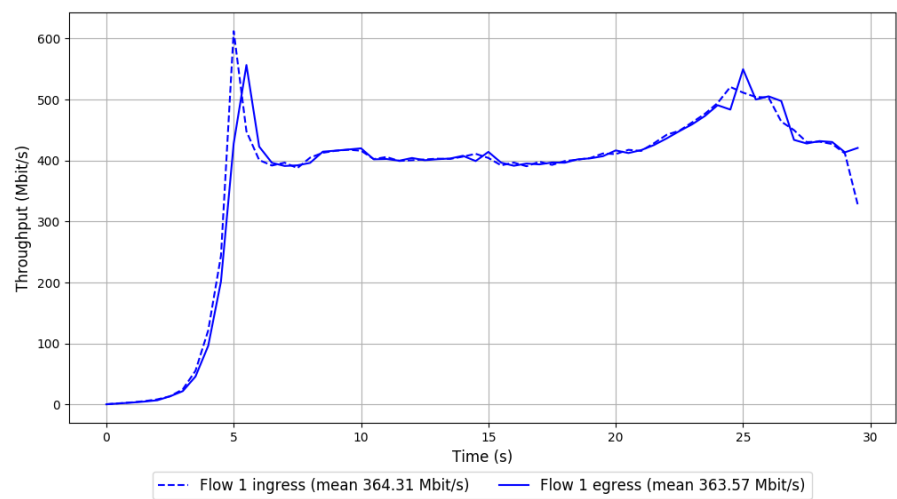
-- Flow 1:

Average throughput: 363.57 Mbit/s

95th percentile per-packet one-way delay: 133.674 ms

Loss rate: 0.21%

Run 10: Report of Vivace-latency — Data Link

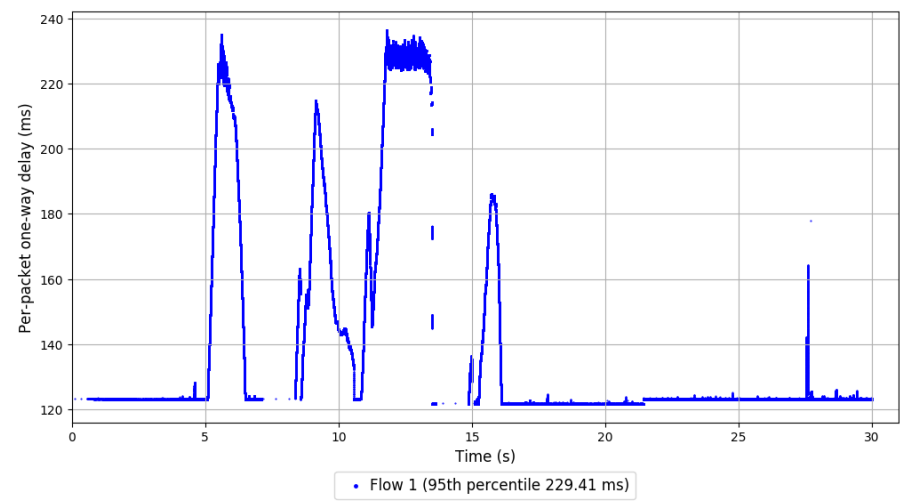
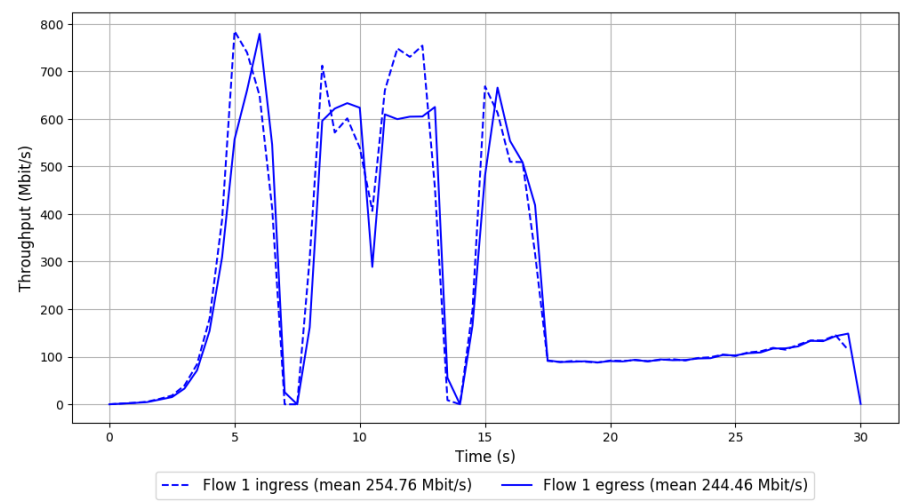


```
Run 1: Statistics of Vivace-loss

Start at: 2018-01-30 13:35:23
End at: 2018-01-30 13:35:53

# Below is generated by plot.py at 2018-01-30 17:19:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 244.46 Mbit/s
95th percentile per-packet one-way delay: 229.410 ms
Loss rate: 4.04%
-- Flow 1:
Average throughput: 244.46 Mbit/s
95th percentile per-packet one-way delay: 229.410 ms
Loss rate: 4.04%
```

Run 1: Report of Vivace-loss — Data Link



Run 2: Statistics of Vivace-loss

Start at: 2018-01-30 13:49:53

End at: 2018-01-30 13:50:24

Below is generated by plot.py at 2018-01-30 17:19:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 220.51 Mbit/s

95th percentile per-packet one-way delay: 219.029 ms

Loss rate: 0.25%

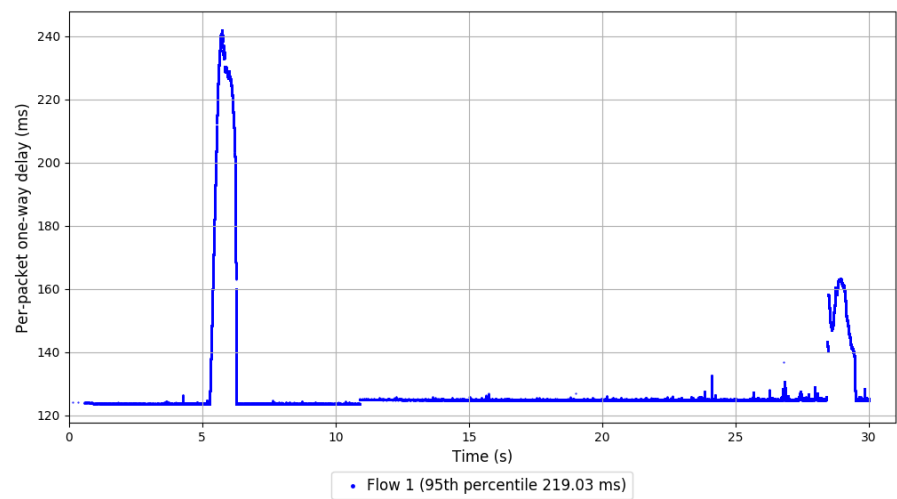
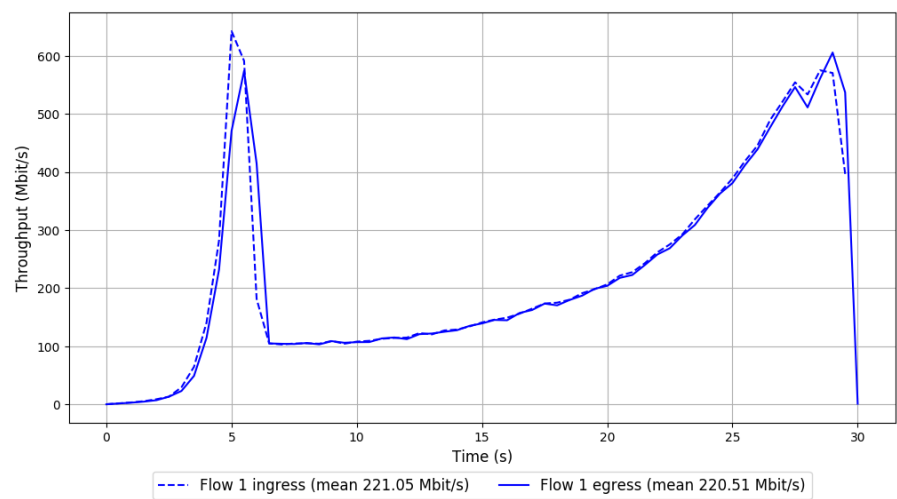
-- Flow 1:

Average throughput: 220.51 Mbit/s

95th percentile per-packet one-way delay: 219.029 ms

Loss rate: 0.25%

Run 2: Report of Vivace-loss — Data Link



Run 3: Statistics of Vivace-loss

Start at: 2018-01-30 14:04:44

End at: 2018-01-30 14:05:14

Below is generated by plot.py at 2018-01-30 17:22:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 374.10 Mbit/s

95th percentile per-packet one-way delay: 123.966 ms

Loss rate: 0.14%

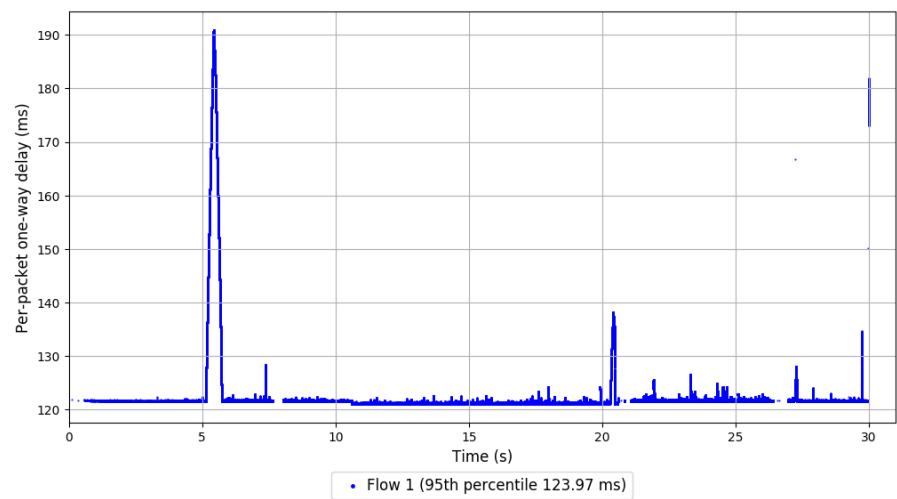
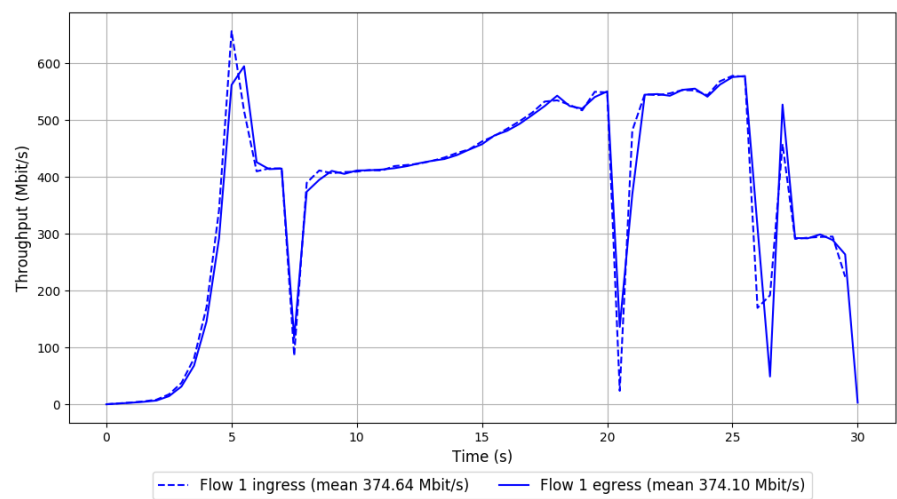
-- Flow 1:

Average throughput: 374.10 Mbit/s

95th percentile per-packet one-way delay: 123.966 ms

Loss rate: 0.14%

Run 3: Report of Vivace-loss — Data Link



Run 4: Statistics of Vivace-loss

Start at: 2018-01-30 14:20:03

End at: 2018-01-30 14:20:33

Below is generated by plot.py at 2018-01-30 17:22:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 366.09 Mbit/s

95th percentile per-packet one-way delay: 230.983 ms

Loss rate: 1.94%

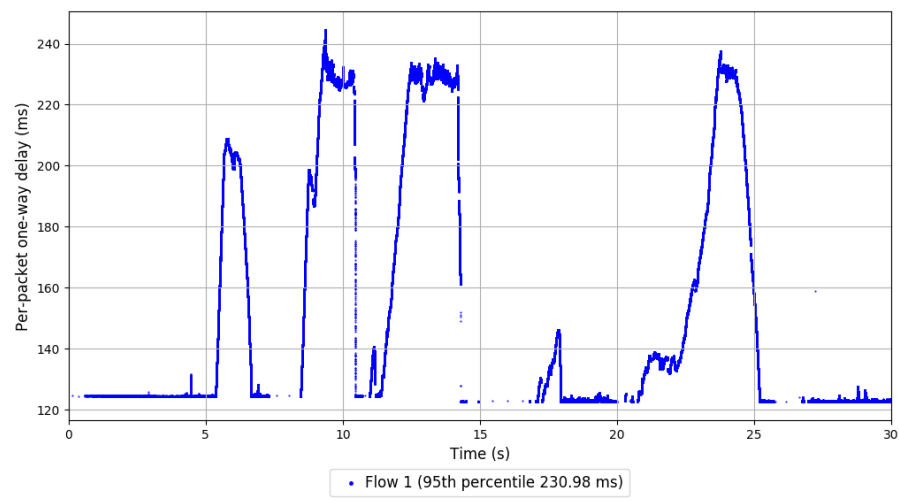
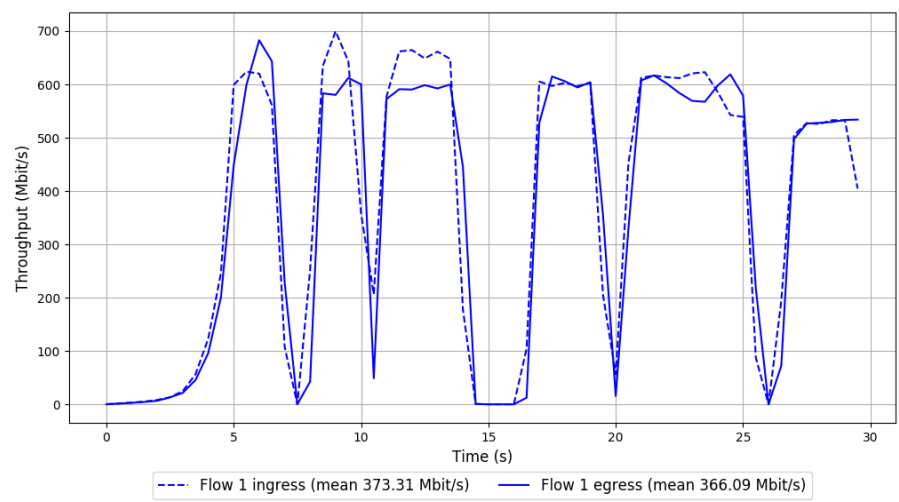
-- Flow 1:

Average throughput: 366.09 Mbit/s

95th percentile per-packet one-way delay: 230.983 ms

Loss rate: 1.94%

Run 4: Report of Vivace-loss — Data Link



Run 5: Statistics of Vivace-loss

Start at: 2018-01-30 14:35:07

End at: 2018-01-30 14:35:37

Below is generated by plot.py at 2018-01-30 17:24:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 397.04 Mbit/s

95th percentile per-packet one-way delay: 207.915 ms

Loss rate: 0.24%

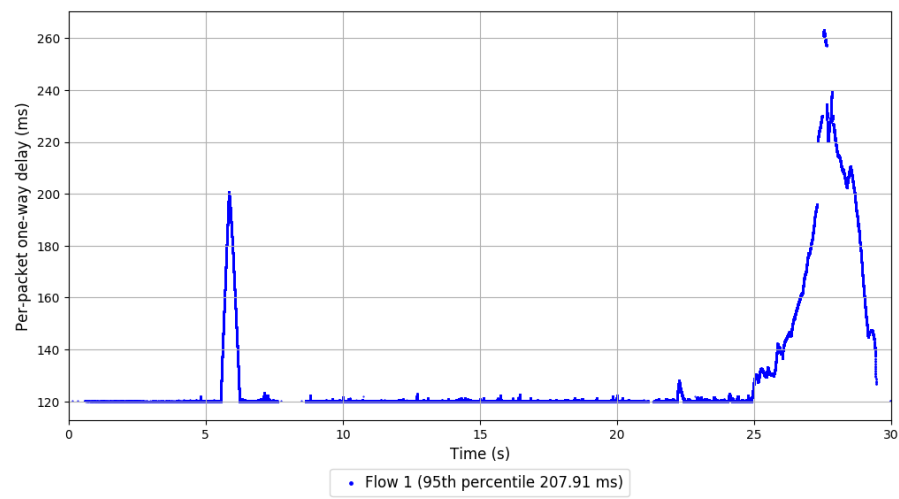
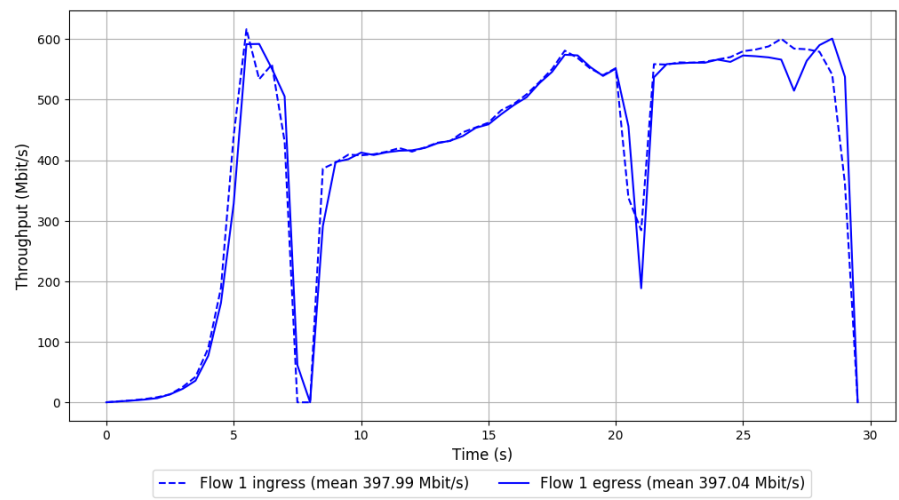
-- Flow 1:

Average throughput: 397.04 Mbit/s

95th percentile per-packet one-way delay: 207.915 ms

Loss rate: 0.24%

Run 5: Report of Vivace-loss — Data Link



Run 6: Statistics of Vivace-loss

Start at: 2018-01-30 14:50:16

End at: 2018-01-30 14:50:46

Below is generated by plot.py at 2018-01-30 17:24:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 411.75 Mbit/s

95th percentile per-packet one-way delay: 210.797 ms

Loss rate: 0.33%

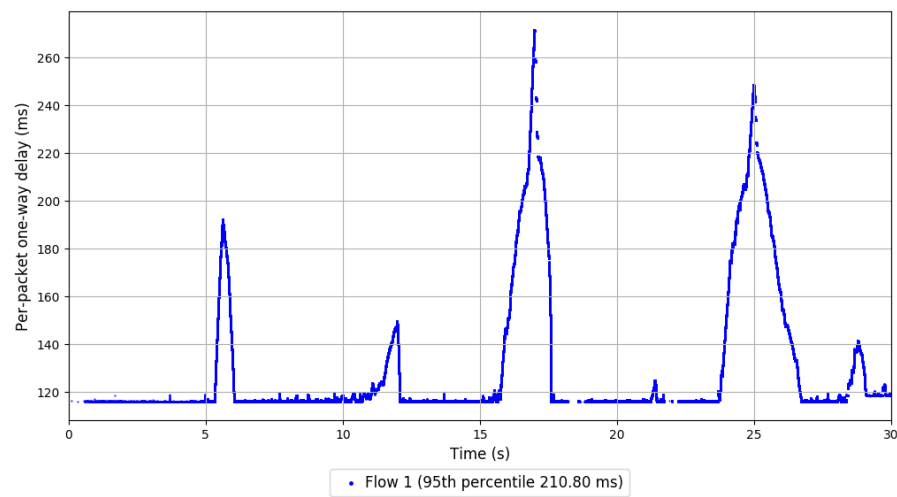
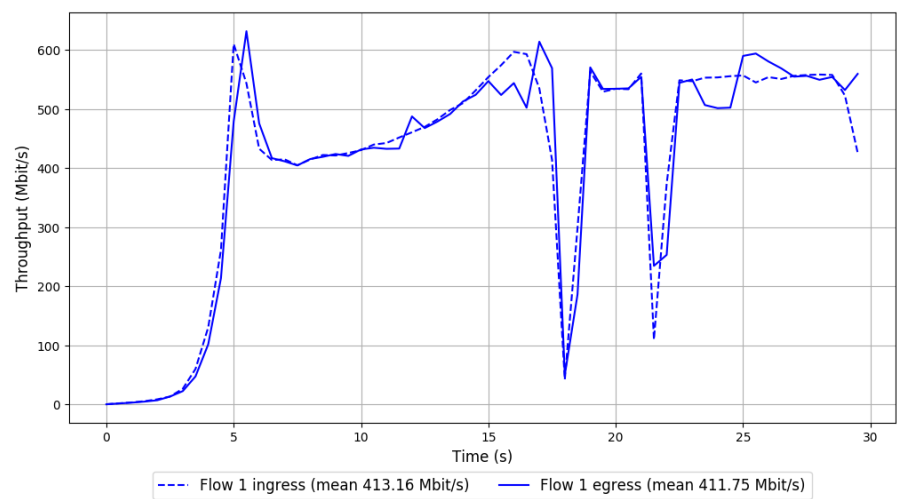
-- Flow 1:

Average throughput: 411.75 Mbit/s

95th percentile per-packet one-way delay: 210.797 ms

Loss rate: 0.33%

Run 6: Report of Vivace-loss — Data Link



Run 7: Statistics of Vivace-loss

Start at: 2018-01-30 15:05:35

End at: 2018-01-30 15:06:05

Below is generated by plot.py at 2018-01-30 17:24:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 299.75 Mbit/s

95th percentile per-packet one-way delay: 232.981 ms

Loss rate: 2.78%

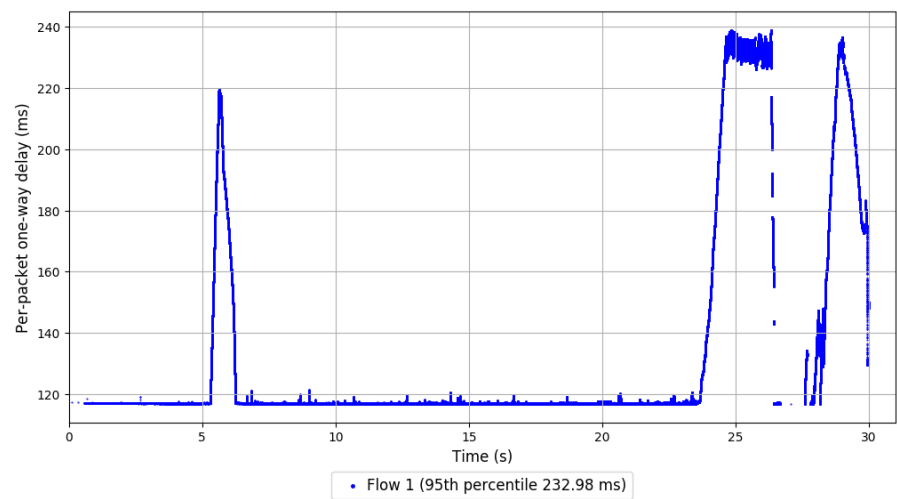
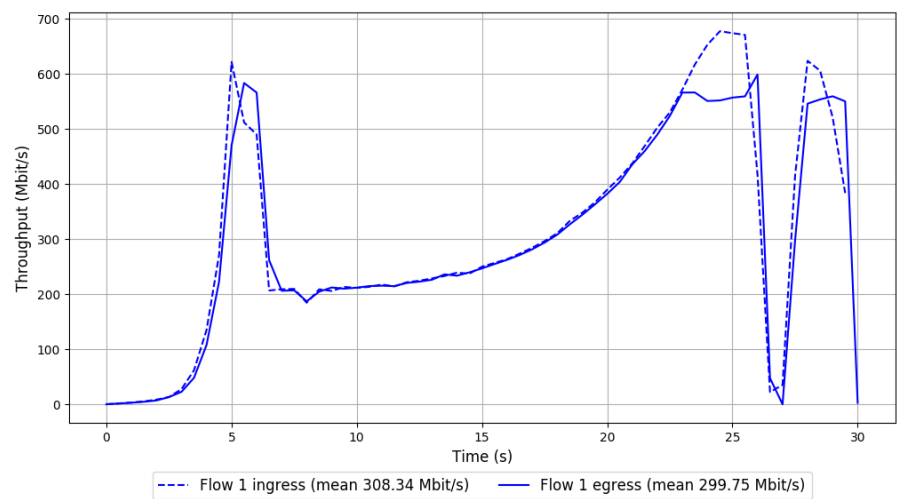
-- Flow 1:

Average throughput: 299.75 Mbit/s

95th percentile per-packet one-way delay: 232.981 ms

Loss rate: 2.78%

Run 7: Report of Vivace-loss — Data Link



Run 8: Statistics of Vivace-loss

Start at: 2018-01-30 15:20:15

End at: 2018-01-30 15:20:45

Below is generated by plot.py at 2018-01-30 17:24:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 221.40 Mbit/s

95th percentile per-packet one-way delay: 210.620 ms

Loss rate: 0.03%

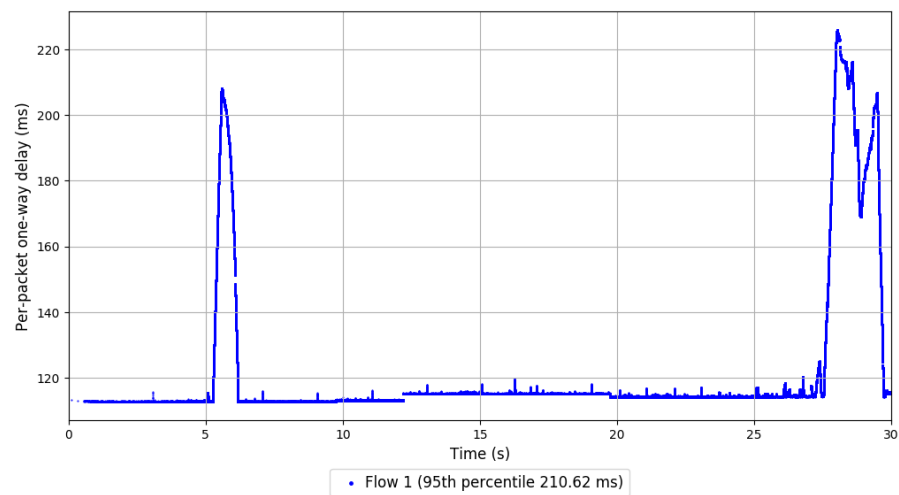
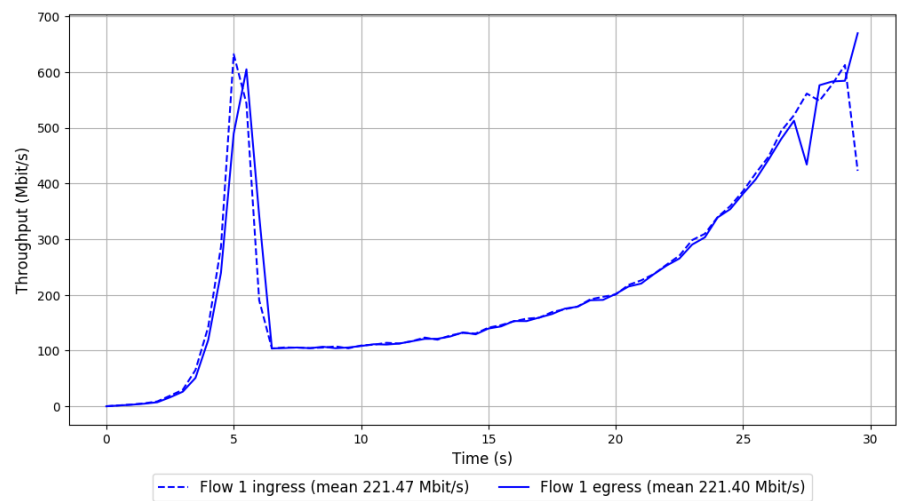
-- Flow 1:

Average throughput: 221.40 Mbit/s

95th percentile per-packet one-way delay: 210.620 ms

Loss rate: 0.03%

Run 8: Report of Vivace-loss — Data Link



Run 9: Statistics of Vivace-loss

Start at: 2018-01-30 15:34:48

End at: 2018-01-30 15:35:18

Below is generated by plot.py at 2018-01-30 17:24:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 269.64 Mbit/s

95th percentile per-packet one-way delay: 231.331 ms

Loss rate: 3.80%

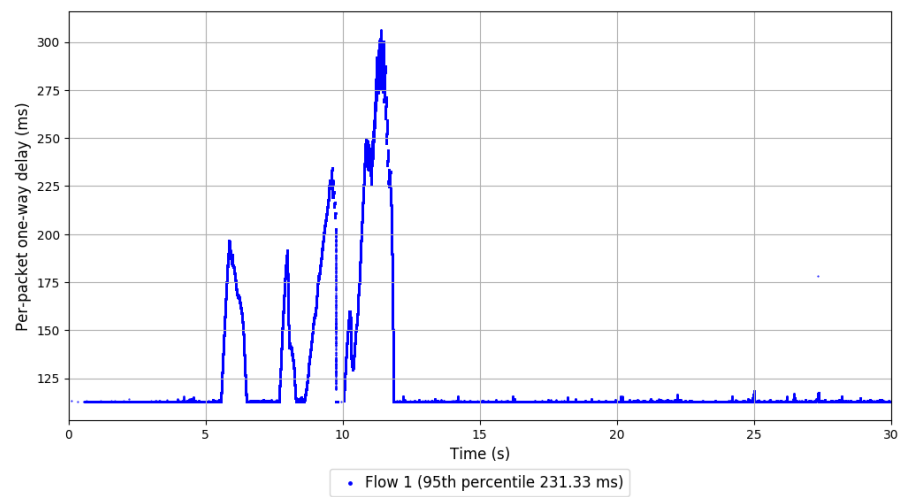
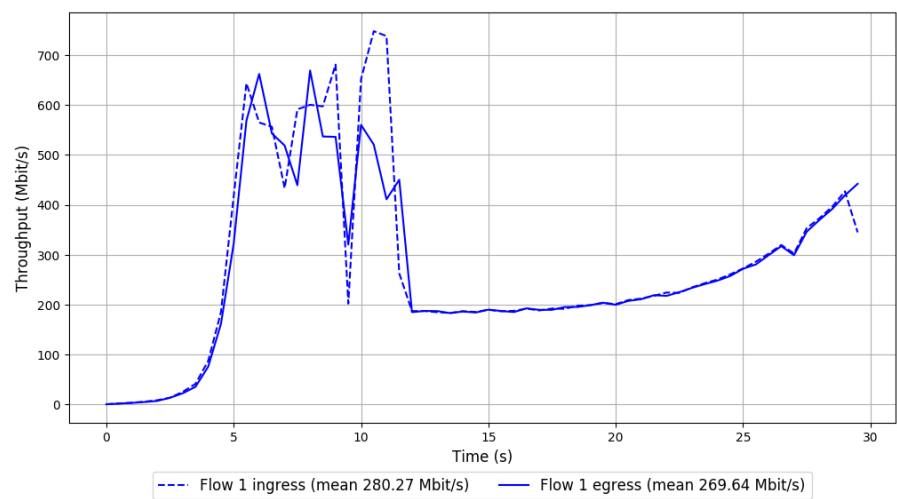
-- Flow 1:

Average throughput: 269.64 Mbit/s

95th percentile per-packet one-way delay: 231.331 ms

Loss rate: 3.80%

Run 9: Report of Vivace-loss — Data Link



Run 10: Statistics of Vivace-loss

Start at: 2018-01-30 15:49:22

End at: 2018-01-30 15:49:52

Below is generated by plot.py at 2018-01-30 17:24:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 289.28 Mbit/s

95th percentile per-packet one-way delay: 227.847 ms

Loss rate: 2.29%

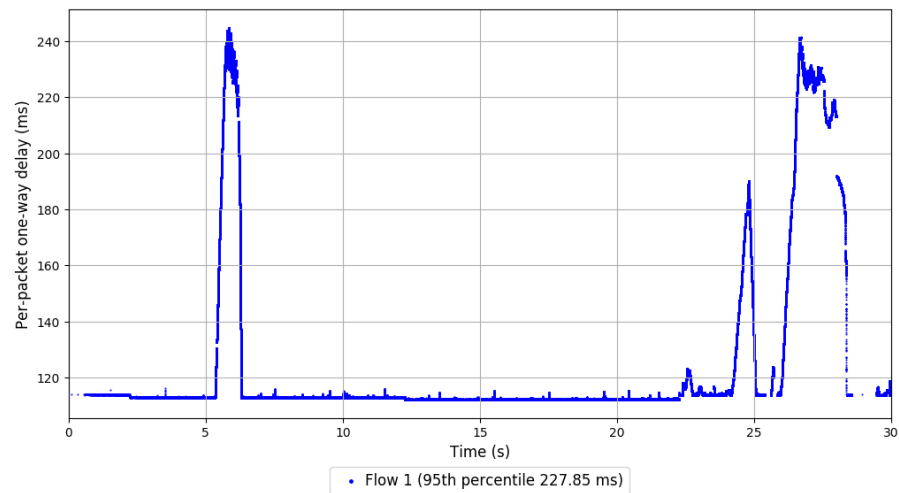
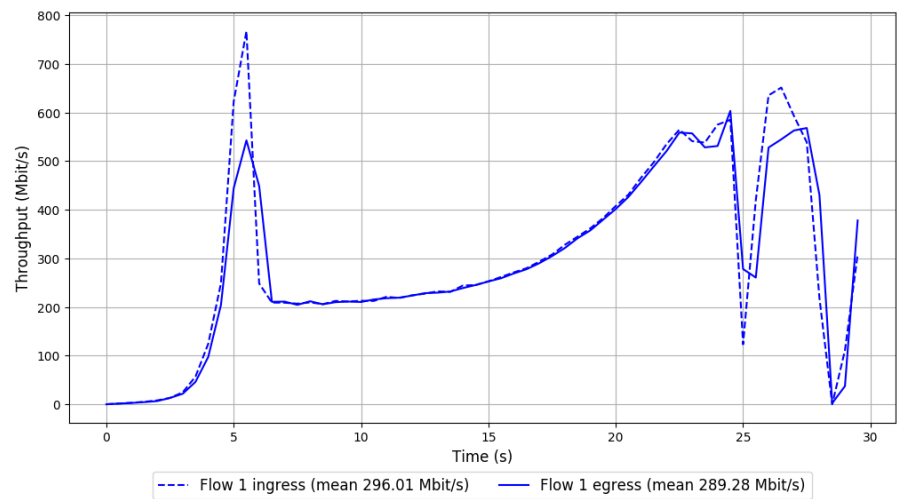
-- Flow 1:

Average throughput: 289.28 Mbit/s

95th percentile per-packet one-way delay: 227.847 ms

Loss rate: 2.29%

Run 10: Report of Vivace-loss — Data Link

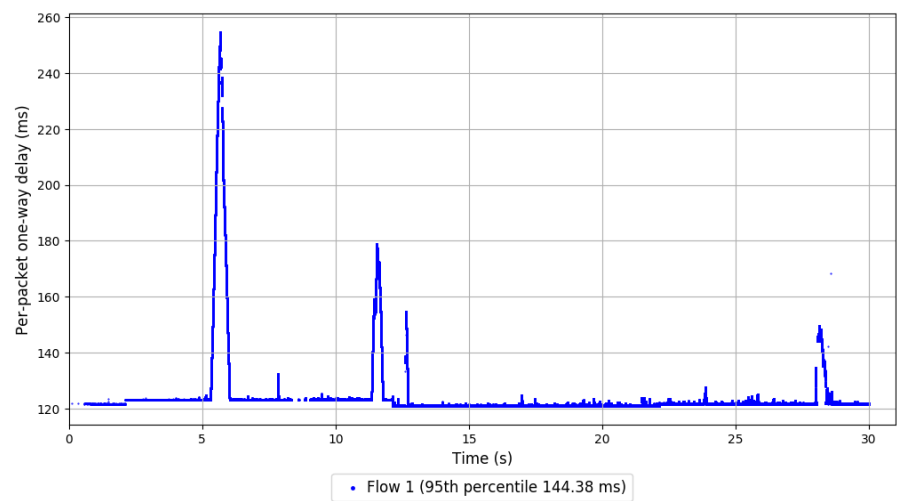
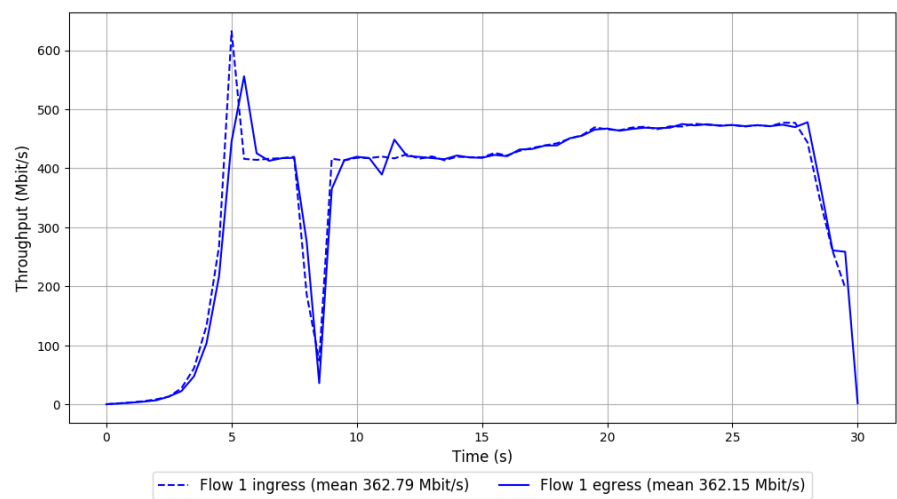


```
Run 1: Statistics of Vivace-LTE

Start at: 2018-01-30 13:27:12
End at: 2018-01-30 13:27:42

# Below is generated by plot.py at 2018-01-30 17:28:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 362.15 Mbit/s
95th percentile per-packet one-way delay: 144.376 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 362.15 Mbit/s
95th percentile per-packet one-way delay: 144.376 ms
Loss rate: 0.18%
```

Run 1: Report of Vivace-LTE — Data Link



Run 2: Statistics of Vivace-LTE

Start at: 2018-01-30 13:41:49

End at: 2018-01-30 13:42:19

Below is generated by plot.py at 2018-01-30 17:29:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 371.35 Mbit/s

95th percentile per-packet one-way delay: 126.407 ms

Loss rate: 0.01%

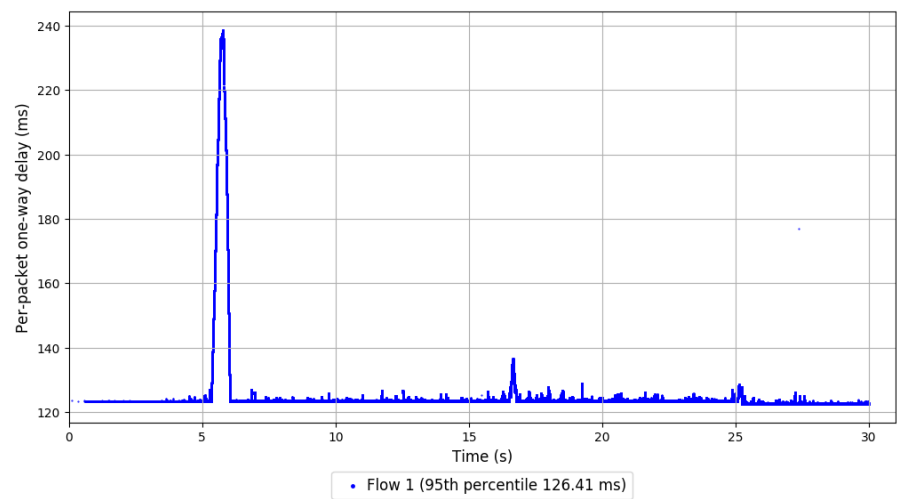
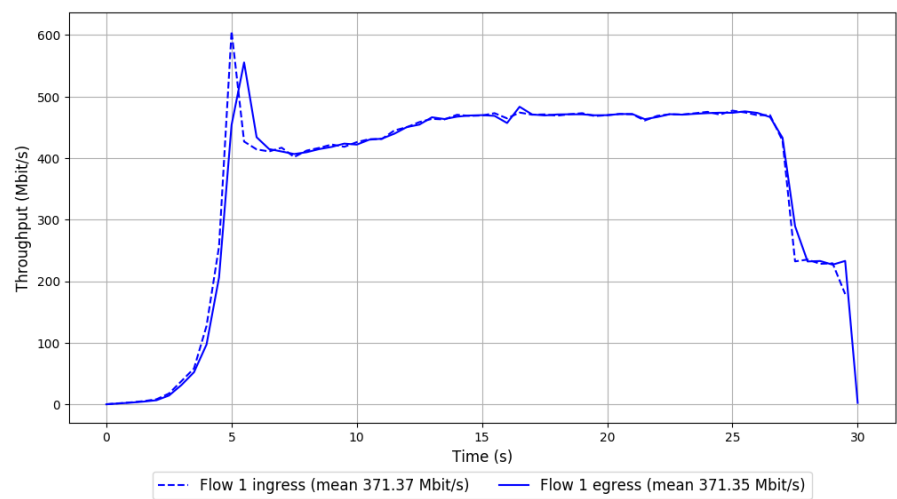
-- Flow 1:

Average throughput: 371.35 Mbit/s

95th percentile per-packet one-way delay: 126.407 ms

Loss rate: 0.01%

Run 2: Report of Vivace-LTE — Data Link



Run 3: Statistics of Vivace-LTE

Start at: 2018-01-30 13:56:13

End at: 2018-01-30 13:56:43

Below is generated by plot.py at 2018-01-30 17:30:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 423.16 Mbit/s

95th percentile per-packet one-way delay: 154.686 ms

Loss rate: 0.20%

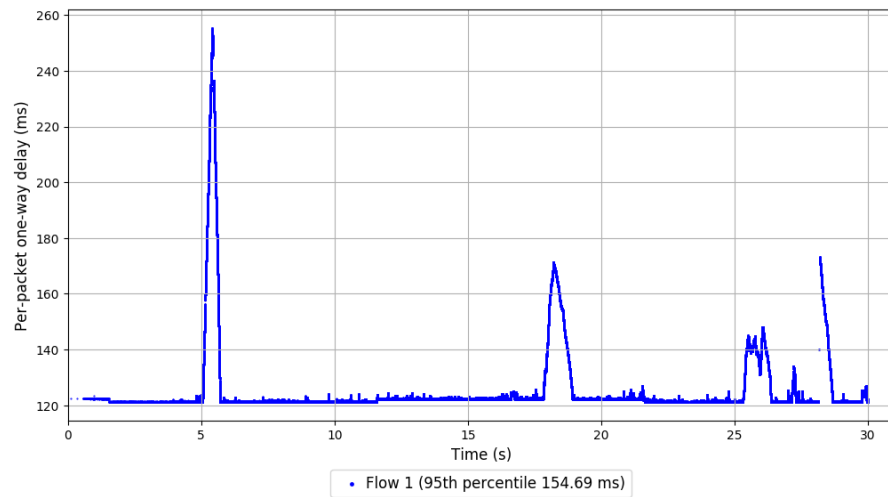
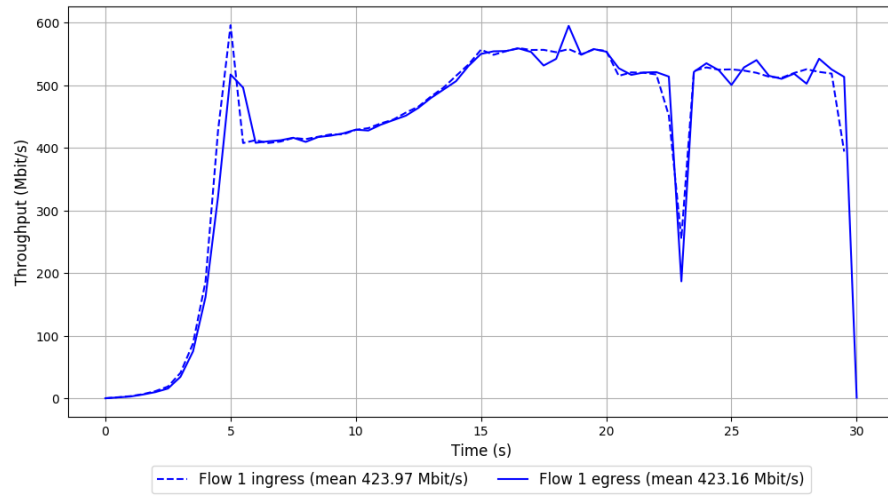
-- Flow 1:

Average throughput: 423.16 Mbit/s

95th percentile per-packet one-way delay: 154.686 ms

Loss rate: 0.20%

Run 3: Report of Vivace-LTE — Data Link



Run 4: Statistics of Vivace-LTE

Start at: 2018-01-30 14:11:35

End at: 2018-01-30 14:12:05

Below is generated by plot.py at 2018-01-30 17:30:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 407.23 Mbit/s

95th percentile per-packet one-way delay: 162.436 ms

Loss rate: 0.11%

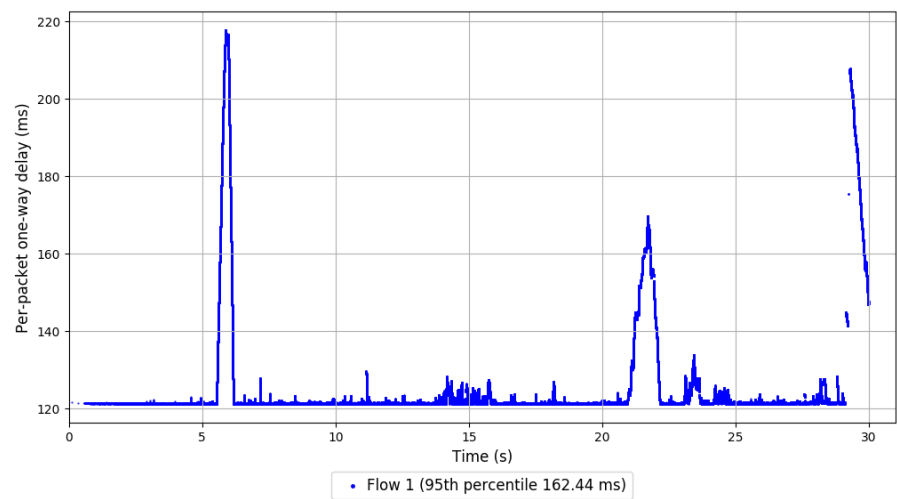
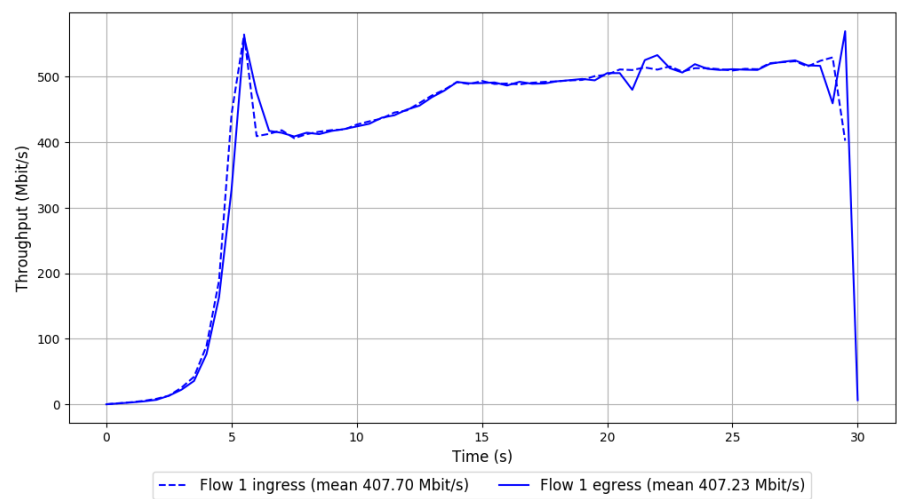
-- Flow 1:

Average throughput: 407.23 Mbit/s

95th percentile per-packet one-way delay: 162.436 ms

Loss rate: 0.11%

Run 4: Report of Vivace-LTE — Data Link



Run 5: Statistics of Vivace-LTE

Start at: 2018-01-30 14:26:42

End at: 2018-01-30 14:27:12

Below is generated by plot.py at 2018-01-30 17:30:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 381.36 Mbit/s

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

Loss rate: 0.00%

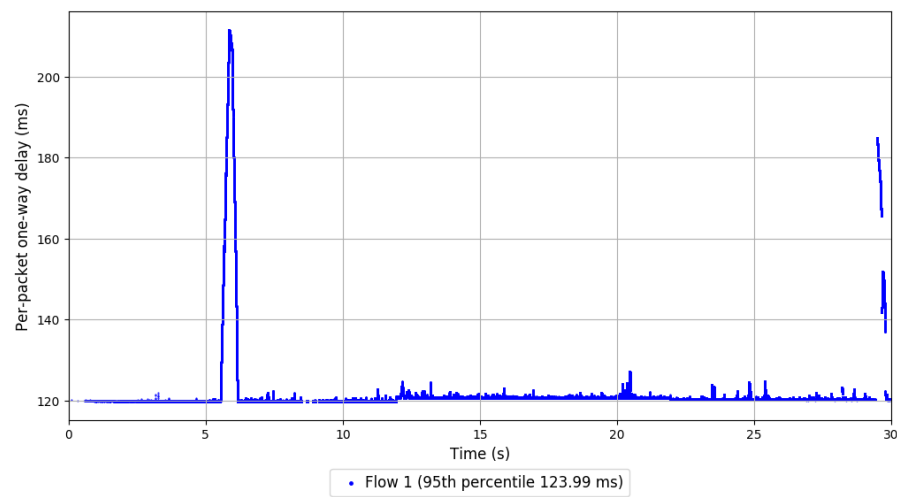
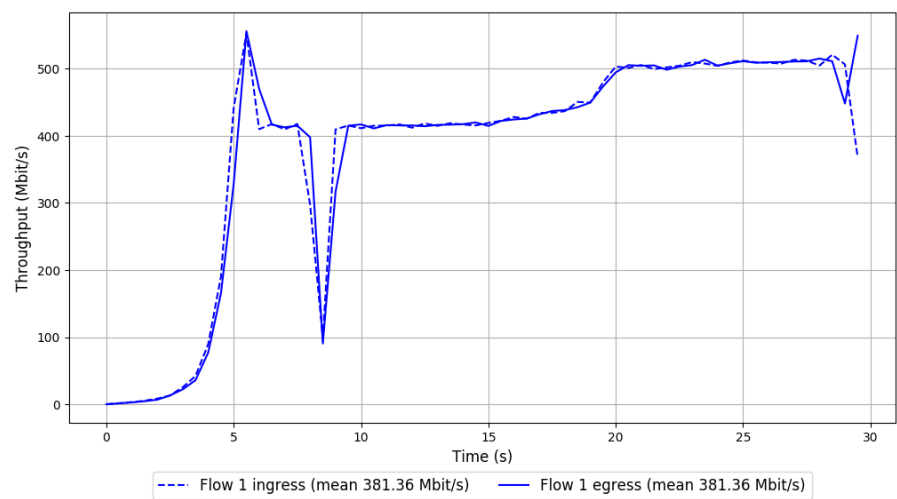
-- Flow 1:

Average throughput: 381.36 Mbit/s

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

Loss rate: 0.00%

Run 5: Report of Vivace-LTE — Data Link



Run 6: Statistics of Vivace-LTE

Start at: 2018-01-30 14:41:44

End at: 2018-01-30 14:42:14

Below is generated by plot.py at 2018-01-30 17:31:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 427.72 Mbit/s

95th percentile per-packet one-way delay: 213.460 ms

Loss rate: 0.42%

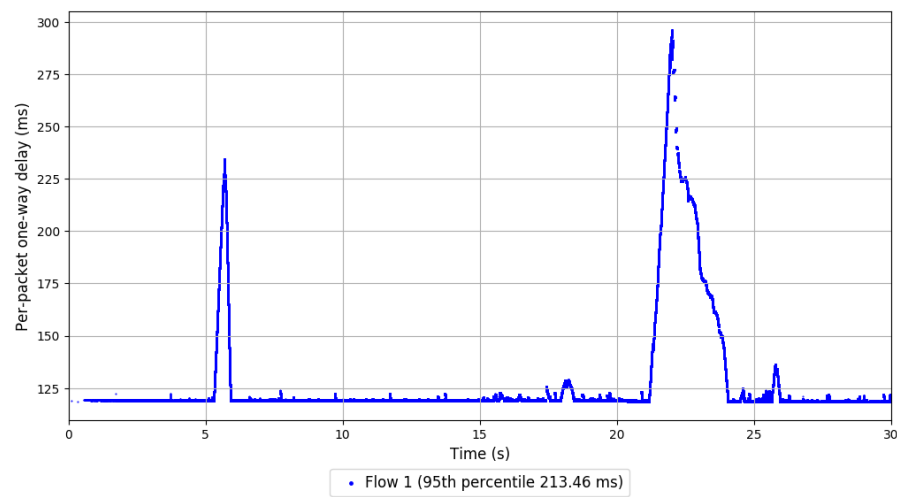
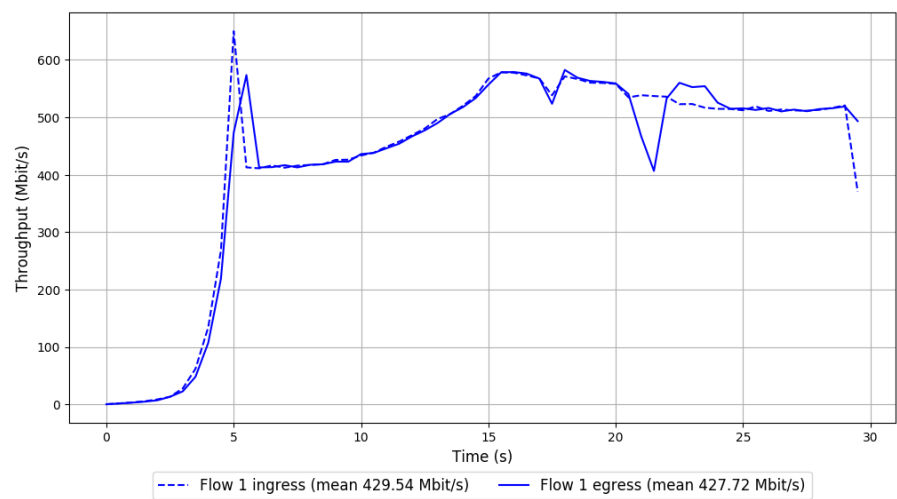
-- Flow 1:

Average throughput: 427.72 Mbit/s

95th percentile per-packet one-way delay: 213.460 ms

Loss rate: 0.42%

Run 6: Report of Vivace-LTE — Data Link



Run 7: Statistics of Vivace-LTE

Start at: 2018-01-30 14:57:05

End at: 2018-01-30 14:57:35

Below is generated by plot.py at 2018-01-30 17:31:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 372.75 Mbit/s

95th percentile per-packet one-way delay: 157.265 ms

Loss rate: 0.01%

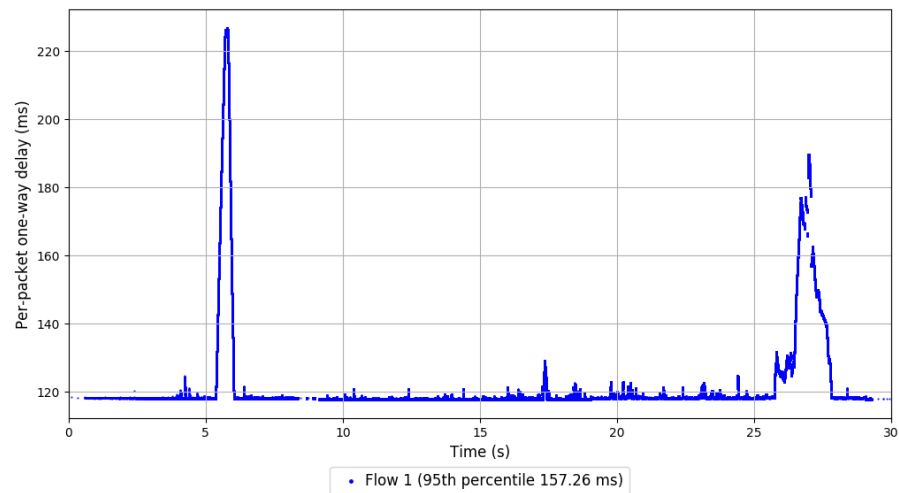
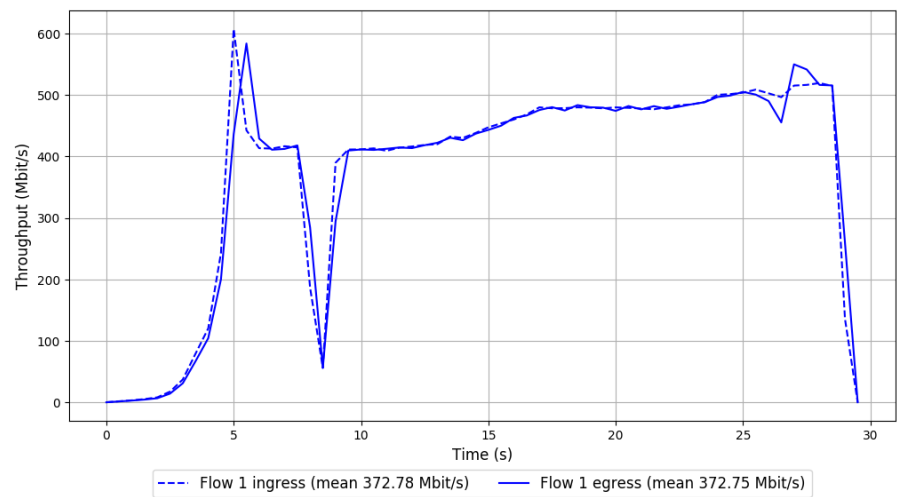
-- Flow 1:

Average throughput: 372.75 Mbit/s

95th percentile per-packet one-way delay: 157.265 ms

Loss rate: 0.01%

Run 7: Report of Vivace-LTE — Data Link



Run 8: Statistics of Vivace-LTE

Start at: 2018-01-30 15:11:55

End at: 2018-01-30 15:12:25

Below is generated by plot.py at 2018-01-30 17:31:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 322.41 Mbit/s

95th percentile per-packet one-way delay: 120.816 ms

Loss rate: 0.10%

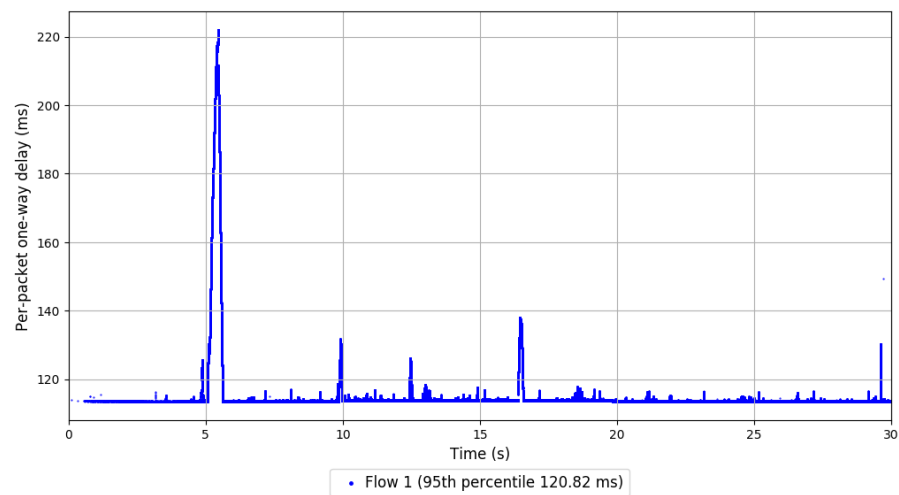
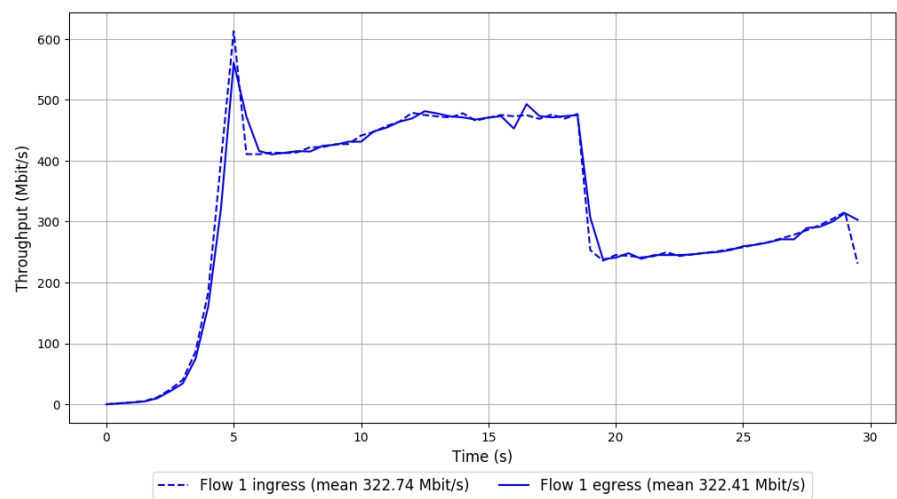
-- Flow 1:

Average throughput: 322.41 Mbit/s

95th percentile per-packet one-way delay: 120.816 ms

Loss rate: 0.10%

Run 8: Report of Vivace-LTE — Data Link



Run 9: Statistics of Vivace-LTE

Start at: 2018-01-30 15:26:24

End at: 2018-01-30 15:26:54

Below is generated by plot.py at 2018-01-30 17:31:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 394.49 Mbit/s

95th percentile per-packet one-way delay: 184.584 ms

Loss rate: 0.08%

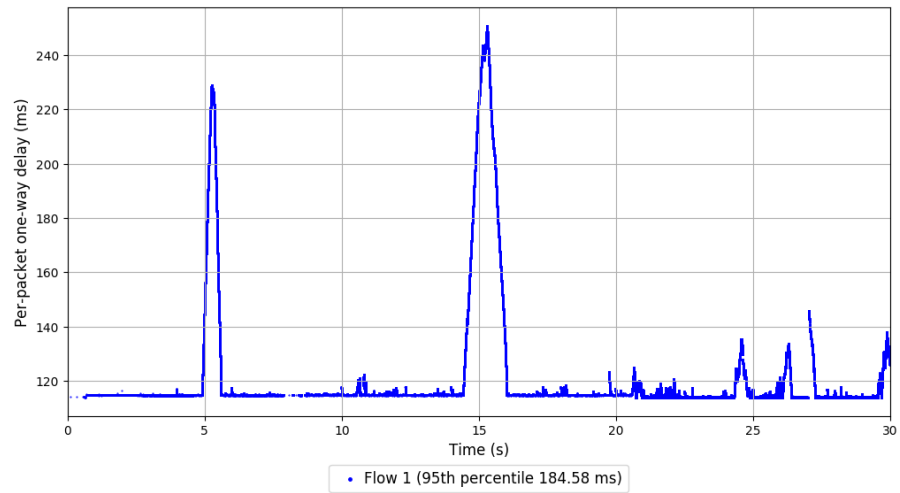
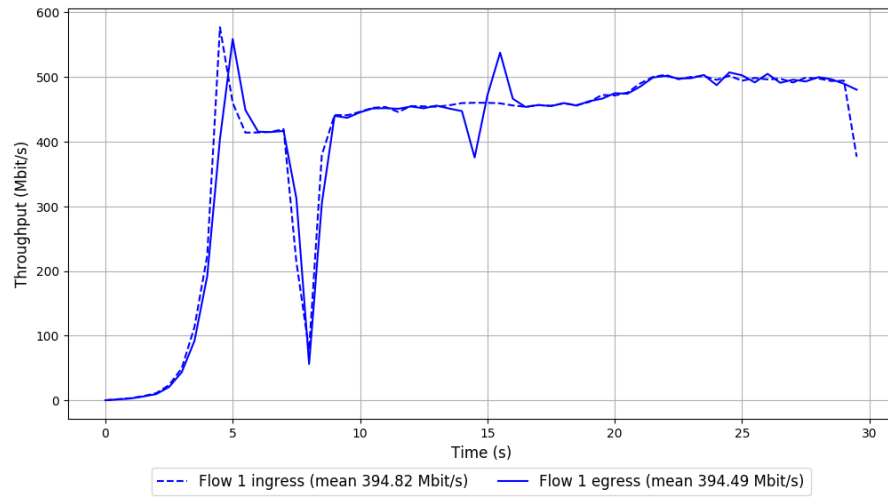
-- Flow 1:

Average throughput: 394.49 Mbit/s

95th percentile per-packet one-way delay: 184.584 ms

Loss rate: 0.08%

Run 9: Report of Vivace-LTE — Data Link



Run 10: Statistics of Vivace-LTE

Start at: 2018-01-30 15:41:01

End at: 2018-01-30 15:41:31

Below is generated by plot.py at 2018-01-30 17:31:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 370.45 Mbit/s

95th percentile per-packet one-way delay: 155.342 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 370.45 Mbit/s

95th percentile per-packet one-way delay: 155.342 ms

Loss rate: 0.04%

Run 10: Report of Vivace-LTE — Data Link

