

Pantheon Report

Generated at 2018-03-27 03:28:47 (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.

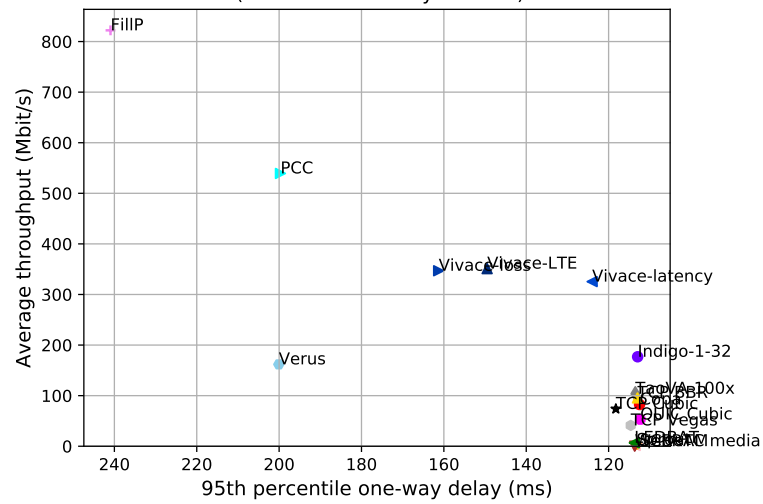
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

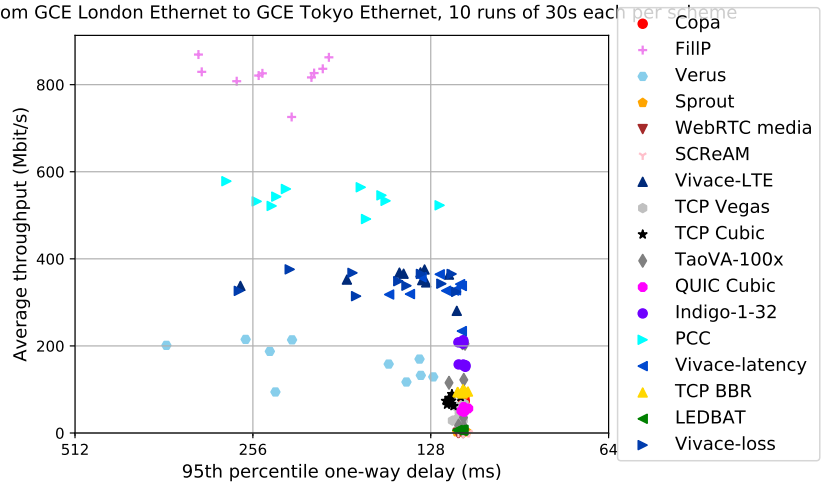
Git summary:

```
branch: master @ 503f51fe03f703a4c0a826a0792a4fead3e7d1b0
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ 828bbf95fd4941149b5cec90f281d1c69ae1a5c6
third_party/genericCC @ 9249eea3238475c4d8cca1443d28df70bff6c4a2
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 @ f271183af822eee5d0031620f4bebf38aedc5581
```

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	95.60	112.99	0.01
TCP Cubic	10	73.84	118.24	0.01
LEDBAT	10	6.69	113.78	0.00
PCC	10	539.27	199.67	1.60
QUIC Cubic	9	52.99	112.32	0.00
SCReAM	10	0.19	112.47	0.00
WebRTC media	10	0.06	113.66	0.00
Sprout	10	2.53	113.22	0.00
TaoVA-100x	9	103.77	113.52	0.00
TCP Vegas	10	41.18	114.63	0.00
Verus	10	161.84	200.08	1.35
Copa	10	82.52	112.49	0.00
FillP	10	822.18	240.94	7.90
Indigo-1-32	10	176.84	112.95	0.00
Vivace-latency	10	325.45	124.01	0.00
Vivace-loss	10	346.89	161.26	0.32
Vivace-LTE	10	351.12	149.49	0.23

Run 1: Statistics of TCP BBR

Start at: 2018-03-26 22:23:47

End at: 2018-03-26 22:24:17

Below is generated by plot.py at 2018-03-27 02:16:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.37 Mbit/s

95th percentile per-packet one-way delay: 110.715 ms

Loss rate: 0.00%

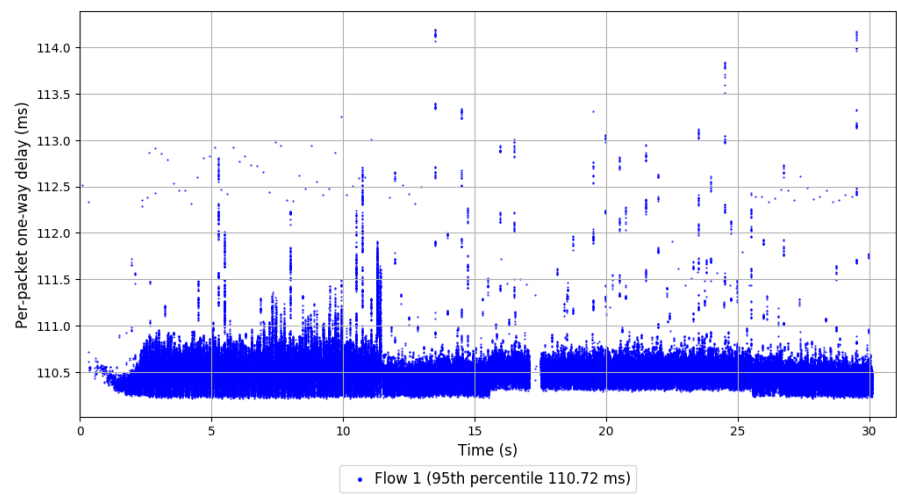
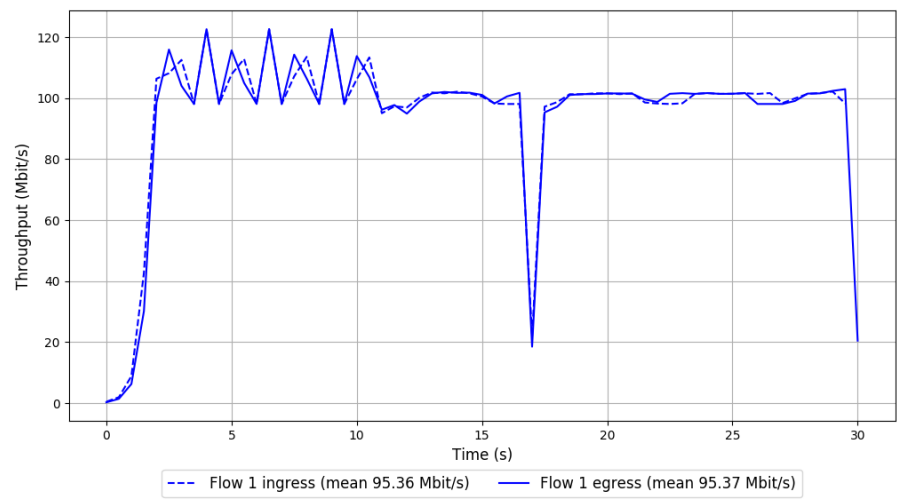
-- Flow 1:

Average throughput: 95.37 Mbit/s

95th percentile per-packet one-way delay: 110.715 ms

Loss rate: 0.00%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-03-26 22:39:27

End at: 2018-03-26 22:39:57

Below is generated by plot.py at 2018-03-27 02:16:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.66 Mbit/s

95th percentile per-packet one-way delay: 112.149 ms

Loss rate: 0.09%

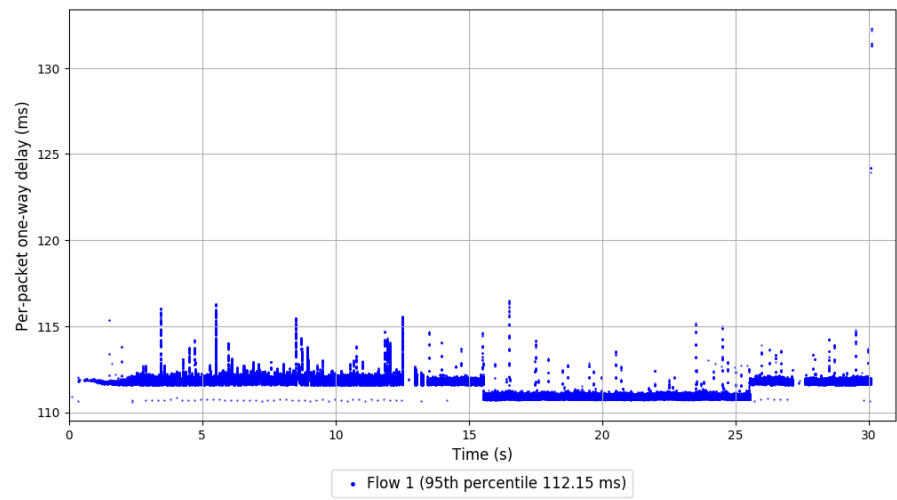
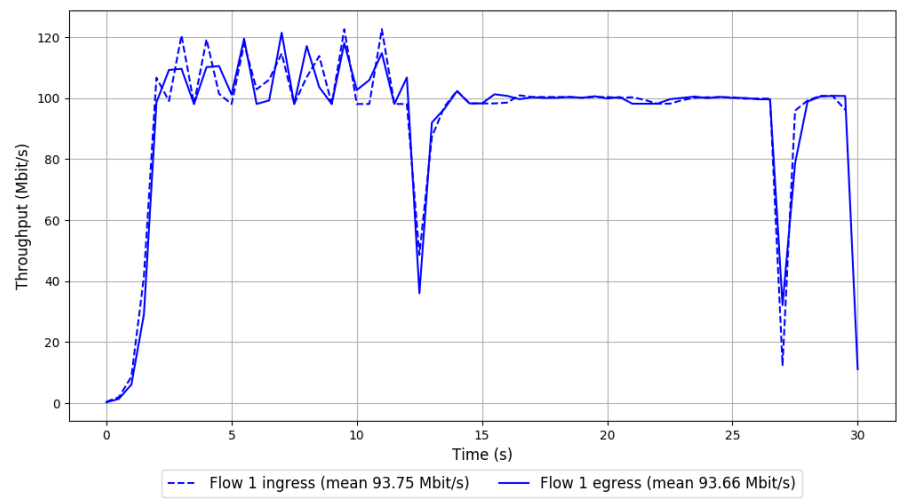
-- Flow 1:

Average throughput: 93.66 Mbit/s

95th percentile per-packet one-way delay: 112.149 ms

Loss rate: 0.09%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-03-26 22:54:57

End at: 2018-03-26 22:55:27

Below is generated by plot.py at 2018-03-27 02:16:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.54 Mbit/s

95th percentile per-packet one-way delay: 111.872 ms

Loss rate: 0.00%

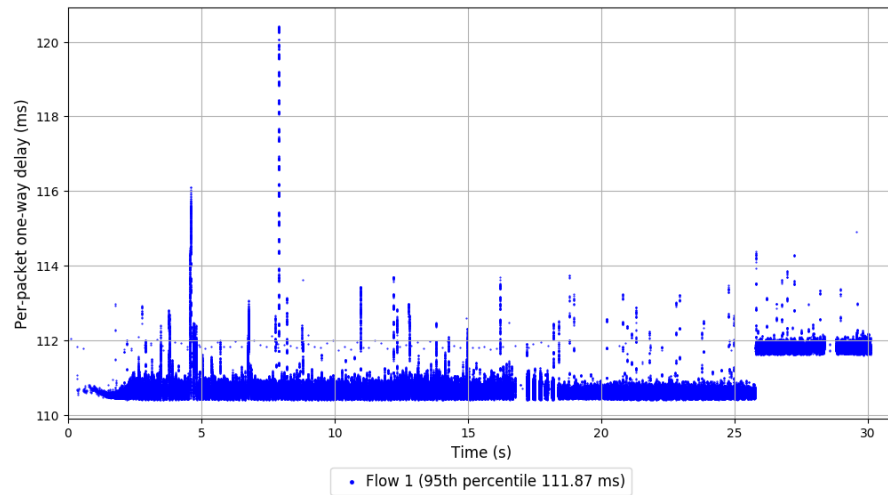
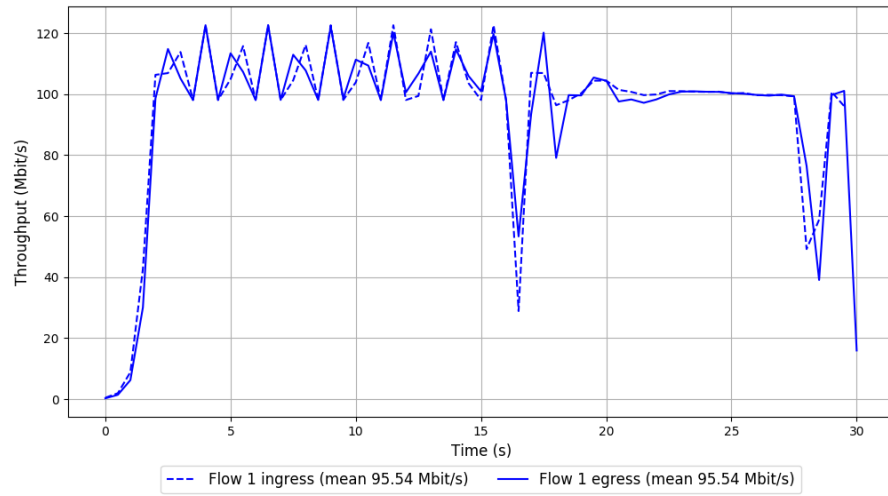
-- Flow 1:

Average throughput: 95.54 Mbit/s

95th percentile per-packet one-way delay: 111.872 ms

Loss rate: 0.00%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-03-26 23:10:38

End at: 2018-03-26 23:11:08

Below is generated by plot.py at 2018-03-27 02:16:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 100.76 Mbit/s

95th percentile per-packet one-way delay: 112.849 ms

Loss rate: 0.00%

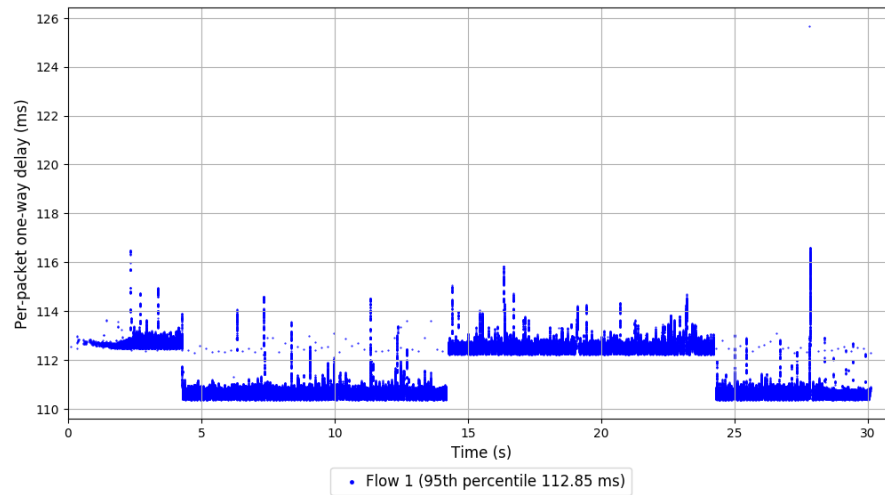
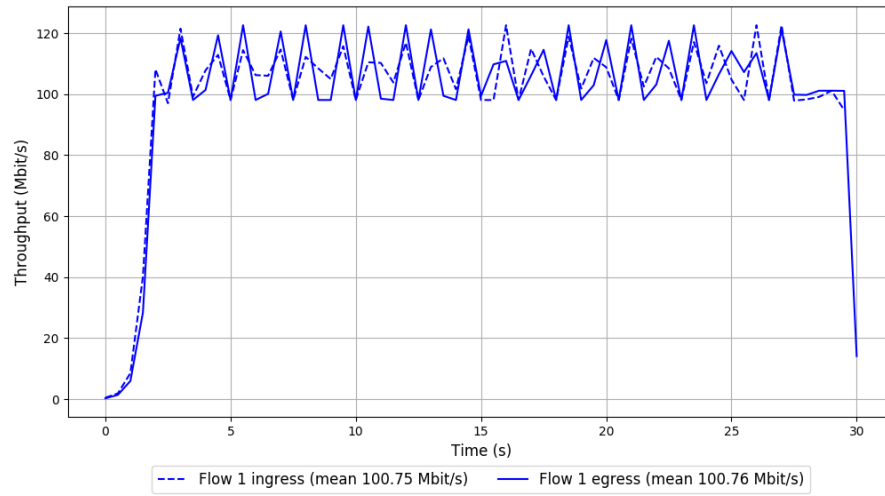
-- Flow 1:

Average throughput: 100.76 Mbit/s

95th percentile per-packet one-way delay: 112.849 ms

Loss rate: 0.00%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-03-26 23:25:59

End at: 2018-03-26 23:26:29

Below is generated by plot.py at 2018-03-27 02:16:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.96 Mbit/s

95th percentile per-packet one-way delay: 112.930 ms

Loss rate: 0.00%

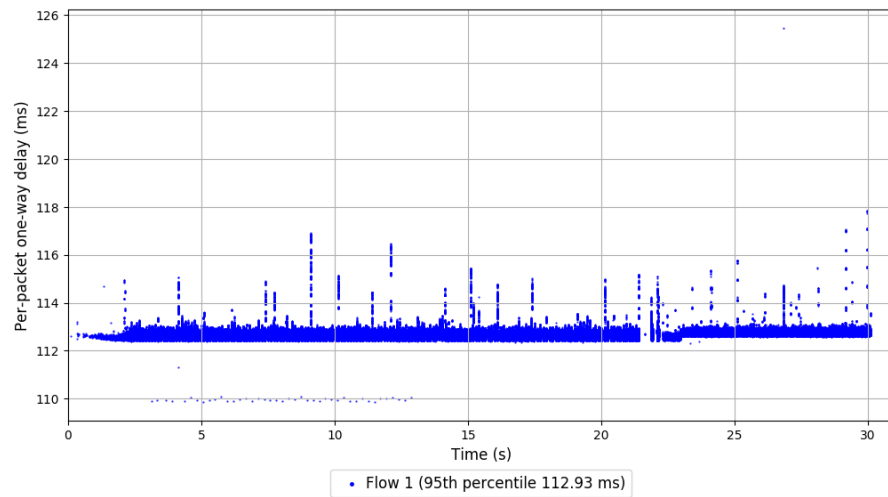
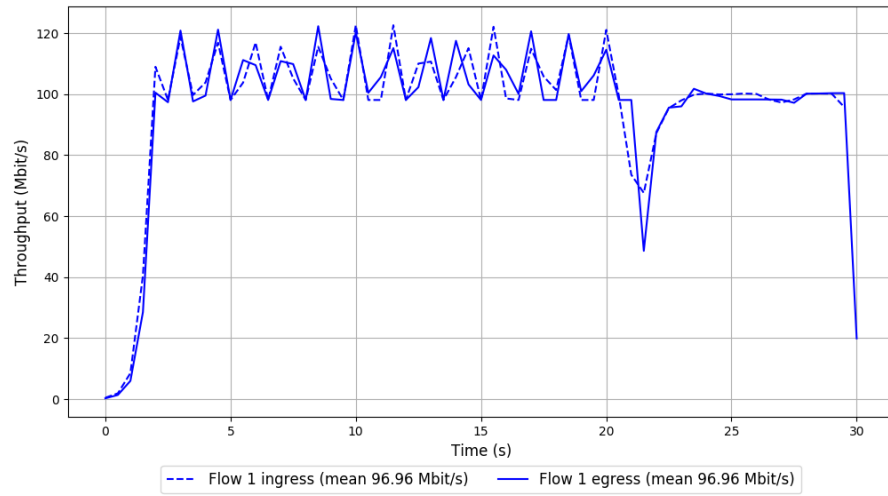
-- Flow 1:

Average throughput: 96.96 Mbit/s

95th percentile per-packet one-way delay: 112.930 ms

Loss rate: 0.00%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-03-26 23:41:28

End at: 2018-03-26 23:41:58

Below is generated by plot.py at 2018-03-27 02:16:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.97 Mbit/s

95th percentile per-packet one-way delay: 113.005 ms

Loss rate: 0.00%

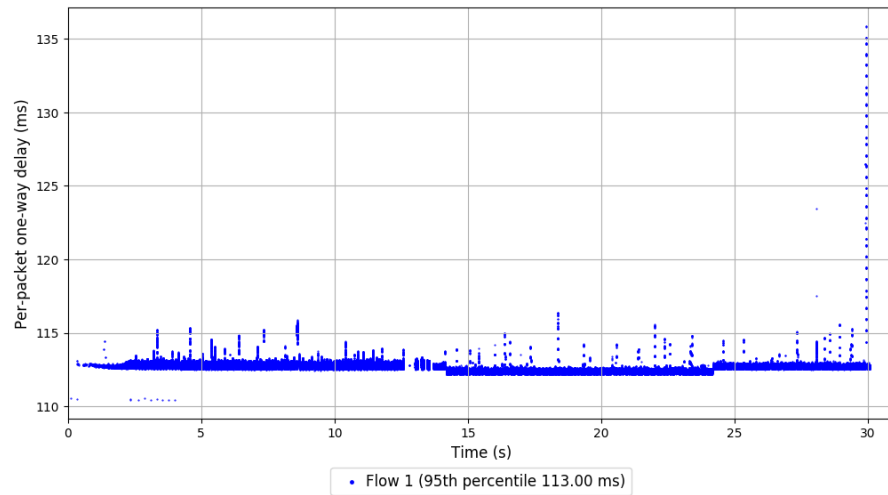
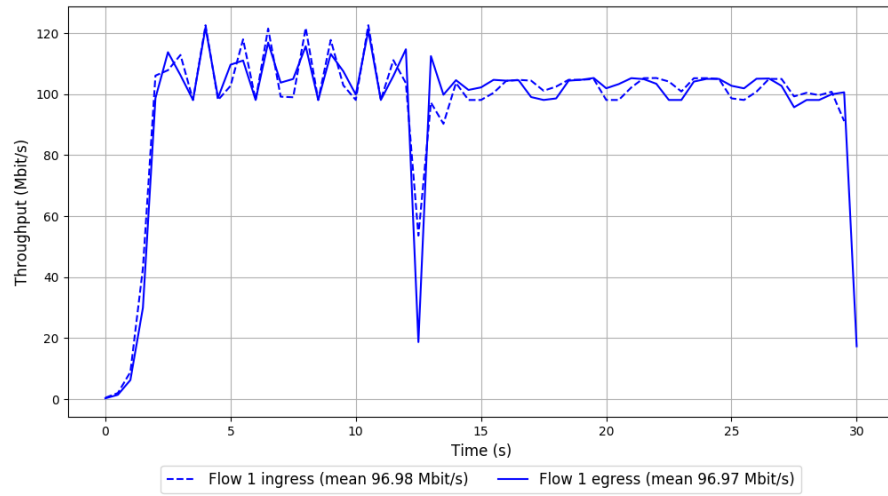
-- Flow 1:

Average throughput: 96.97 Mbit/s

95th percentile per-packet one-way delay: 113.005 ms

Loss rate: 0.00%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-03-26 23:57:17

End at: 2018-03-26 23:57:47

Below is generated by plot.py at 2018-03-27 02:16:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 98.37 Mbit/s

95th percentile per-packet one-way delay: 112.976 ms

Loss rate: 0.00%

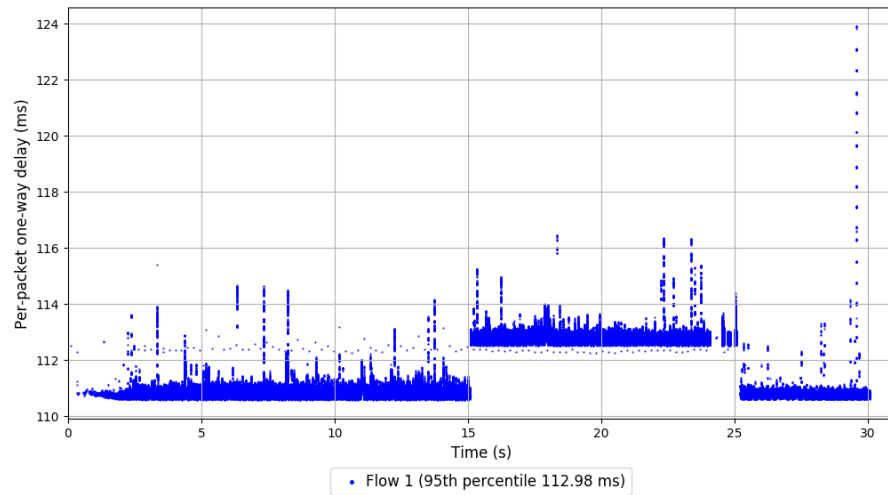
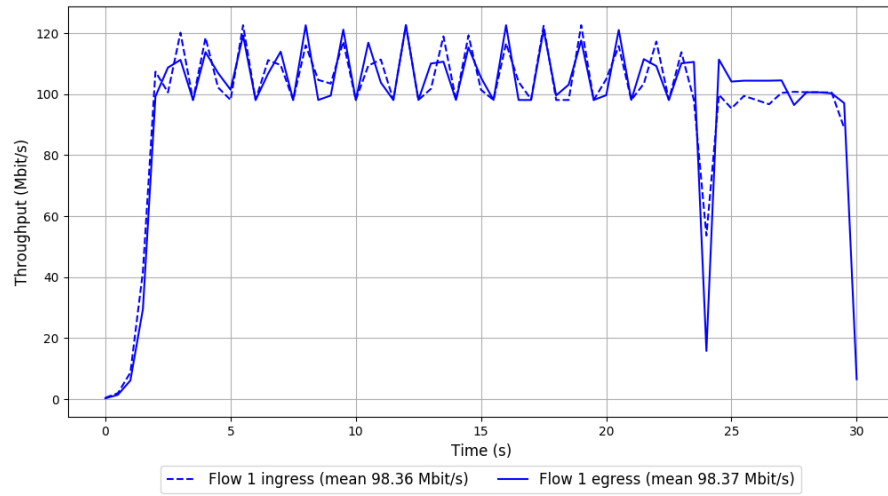
-- Flow 1:

Average throughput: 98.37 Mbit/s

95th percentile per-packet one-way delay: 112.976 ms

Loss rate: 0.00%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-03-27 00:12:40

End at: 2018-03-27 00:13:10

Below is generated by plot.py at 2018-03-27 02:16:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.21 Mbit/s

95th percentile per-packet one-way delay: 115.039 ms

Loss rate: 0.00%

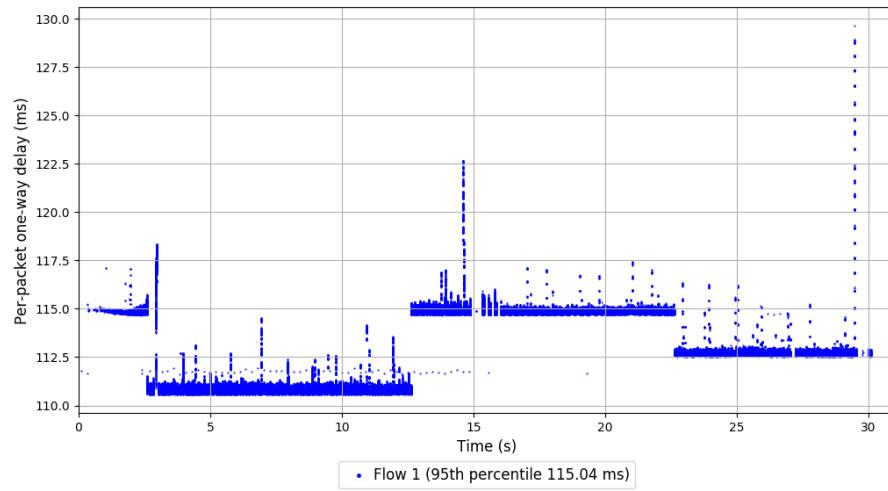
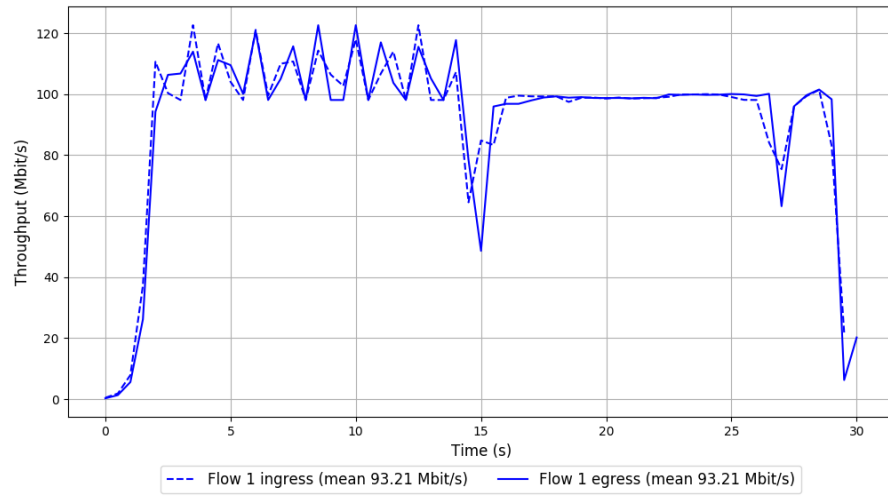
-- Flow 1:

Average throughput: 93.21 Mbit/s

95th percentile per-packet one-way delay: 115.039 ms

Loss rate: 0.00%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-03-27 00:27:58

End at: 2018-03-27 00:28:28

Below is generated by plot.py at 2018-03-27 02:18:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.87 Mbit/s

95th percentile per-packet one-way delay: 113.043 ms

Loss rate: 0.00%

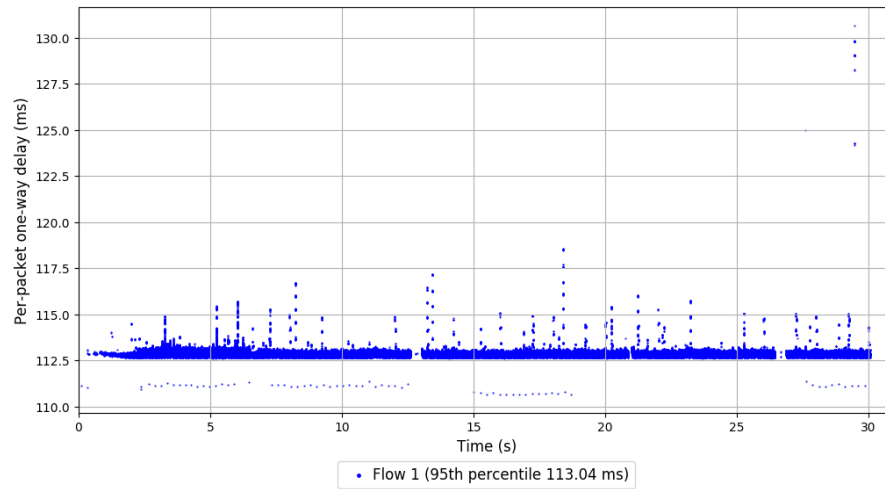
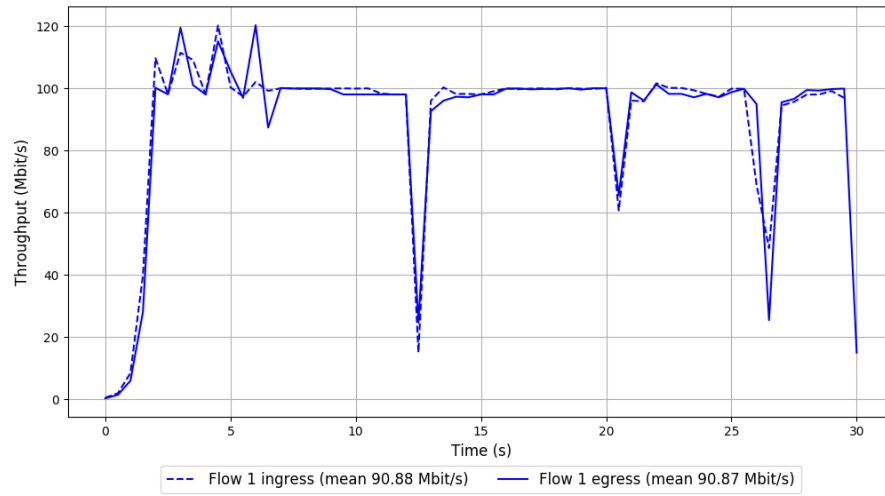
-- Flow 1:

Average throughput: 90.87 Mbit/s

95th percentile per-packet one-way delay: 113.043 ms

Loss rate: 0.00%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-03-27 00:43:32

End at: 2018-03-27 00:44:02

Below is generated by plot.py at 2018-03-27 02:18:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.31 Mbit/s

95th percentile per-packet one-way delay: 115.320 ms

Loss rate: 0.00%

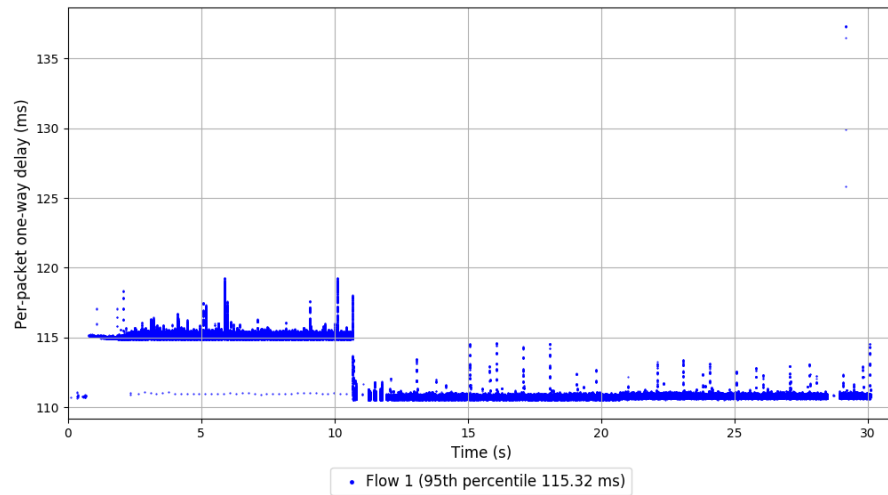
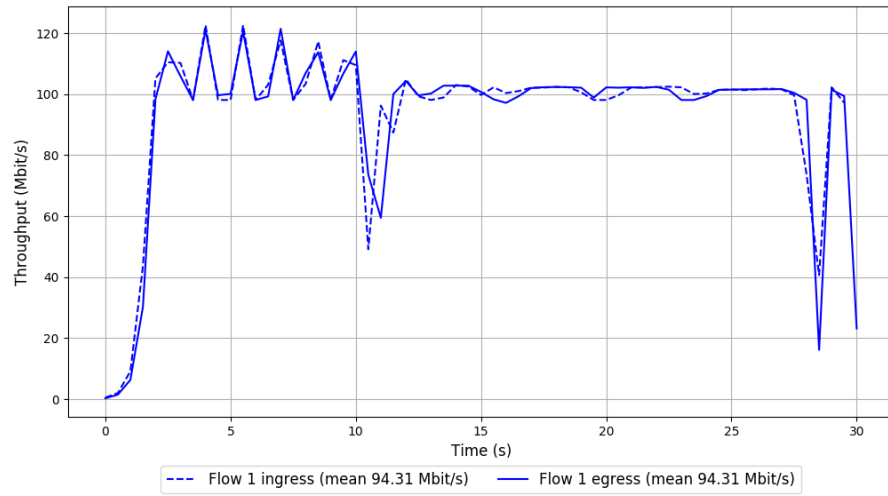
-- Flow 1:

Average throughput: 94.31 Mbit/s

95th percentile per-packet one-way delay: 115.320 ms

Loss rate: 0.00%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-03-26 22:26:09

End at: 2018-03-26 22:26:39

Below is generated by plot.py at 2018-03-27 02:18:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.79 Mbit/s

95th percentile per-packet one-way delay: 113.985 ms

Loss rate: 0.00%

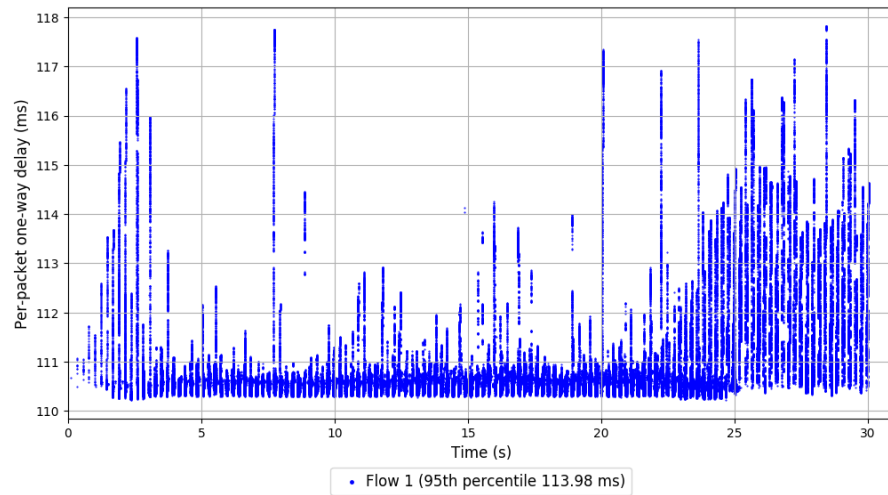
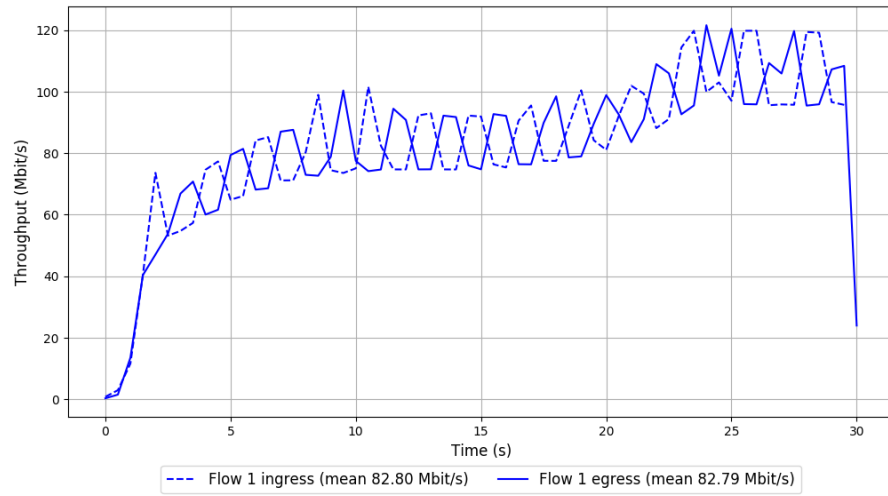
-- Flow 1:

Average throughput: 82.79 Mbit/s

95th percentile per-packet one-way delay: 113.985 ms

Loss rate: 0.00%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-03-26 22:41:44

End at: 2018-03-26 22:42:14

Below is generated by plot.py at 2018-03-27 02:18:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.71 Mbit/s

95th percentile per-packet one-way delay: 119.087 ms

Loss rate: 0.00%

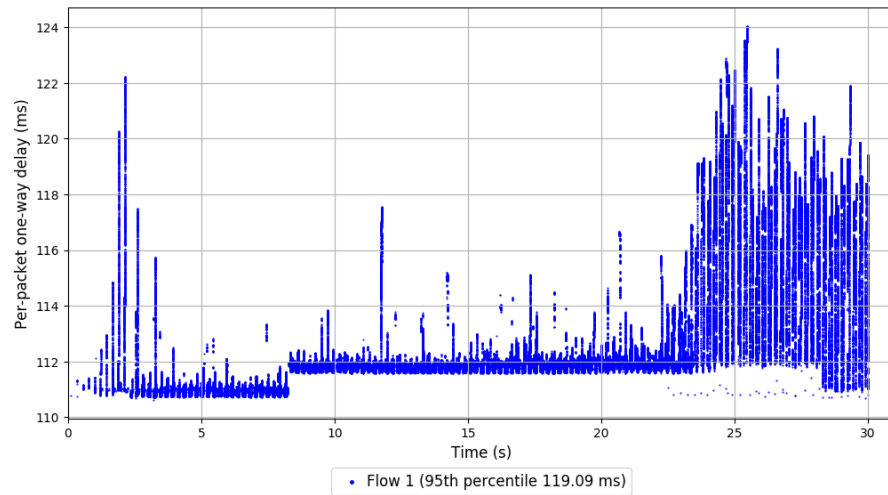
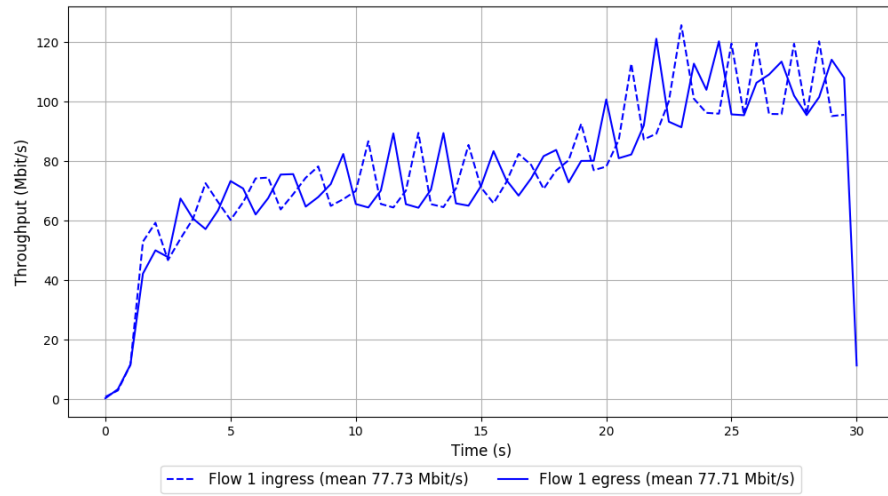
-- Flow 1:

Average throughput: 77.71 Mbit/s

95th percentile per-packet one-way delay: 119.087 ms

Loss rate: 0.00%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-03-26 22:57:20

End at: 2018-03-26 22:57:50

Below is generated by plot.py at 2018-03-27 02:18:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.37 Mbit/s

95th percentile per-packet one-way delay: 117.854 ms

Loss rate: 0.00%

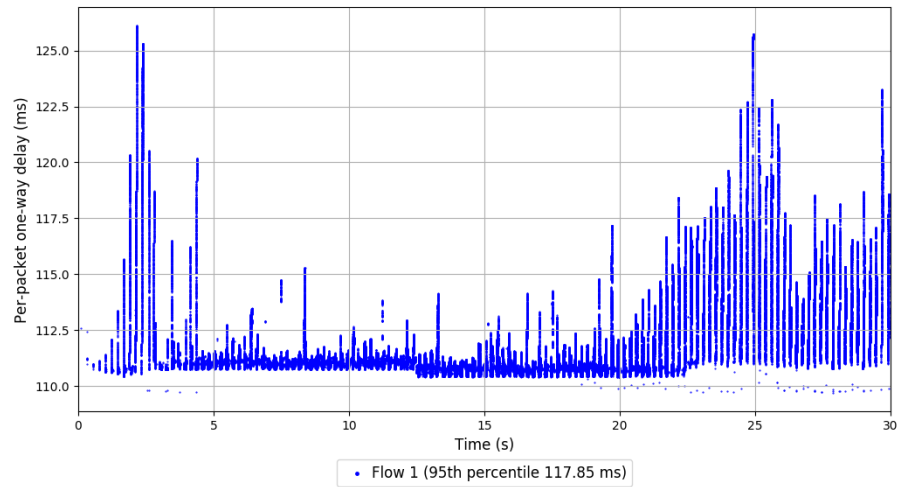
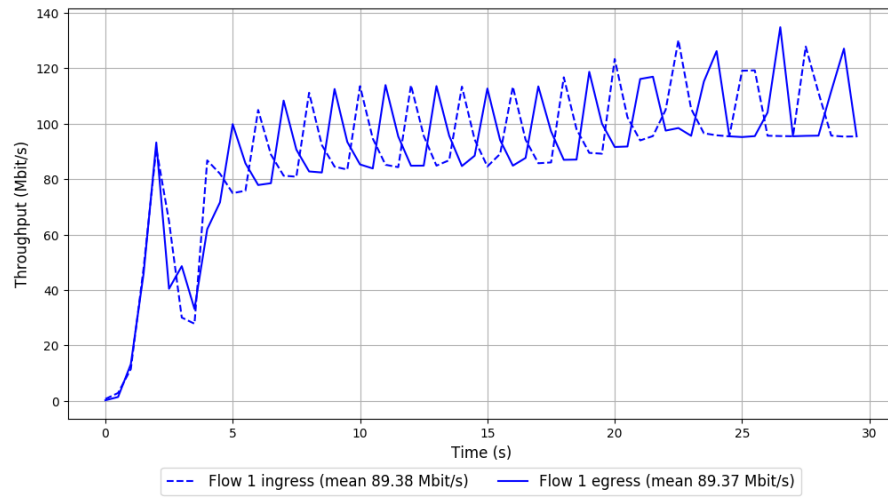
-- Flow 1:

Average throughput: 89.37 Mbit/s

95th percentile per-packet one-way delay: 117.854 ms

Loss rate: 0.00%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-03-26 23:12:56

End at: 2018-03-26 23:13:26

Below is generated by plot.py at 2018-03-27 02:18:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 65.36 Mbit/s

95th percentile per-packet one-way delay: 120.099 ms

Loss rate: 0.00%

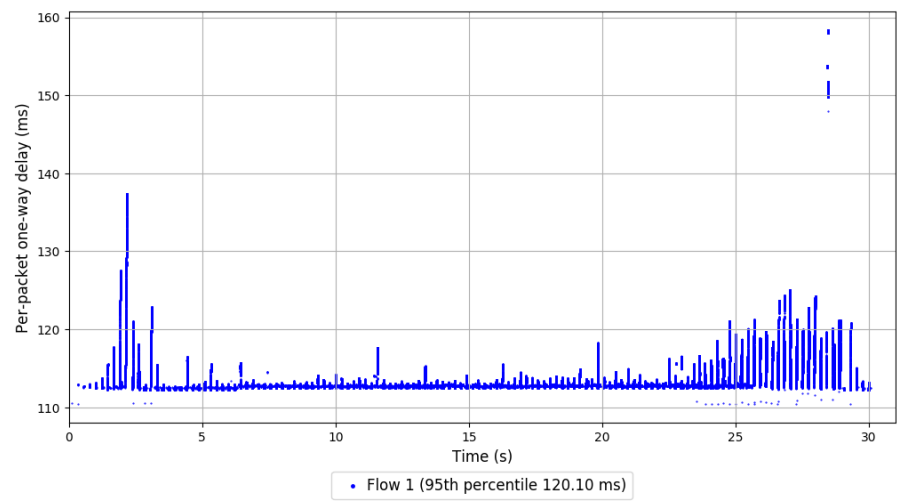
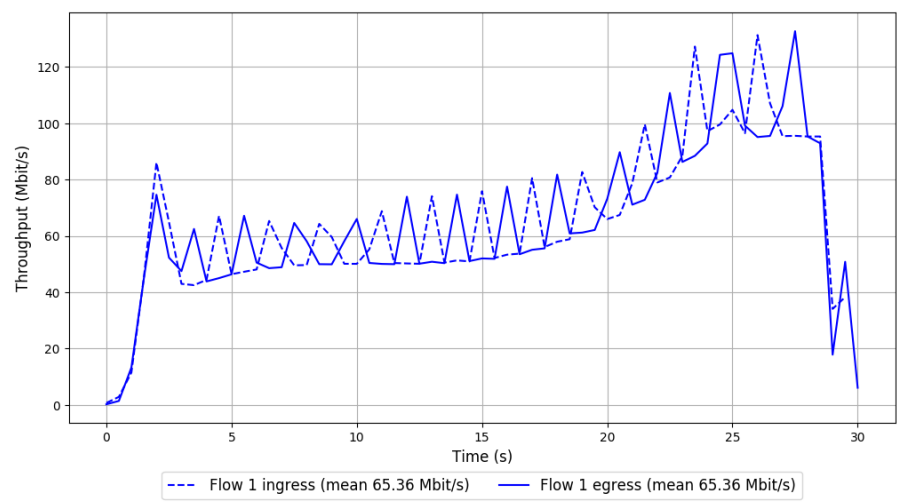
-- Flow 1:

Average throughput: 65.36 Mbit/s

95th percentile per-packet one-way delay: 120.099 ms

Loss rate: 0.00%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-03-26 23:28:19

End at: 2018-03-26 23:28:49

Below is generated by plot.py at 2018-03-27 02:18:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 66.46 Mbit/s

95th percentile per-packet one-way delay: 118.189 ms

Loss rate: 0.09%

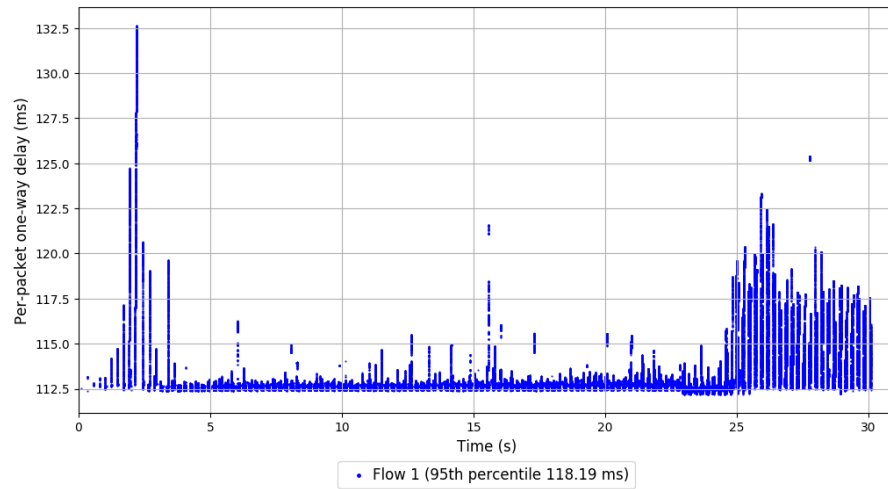
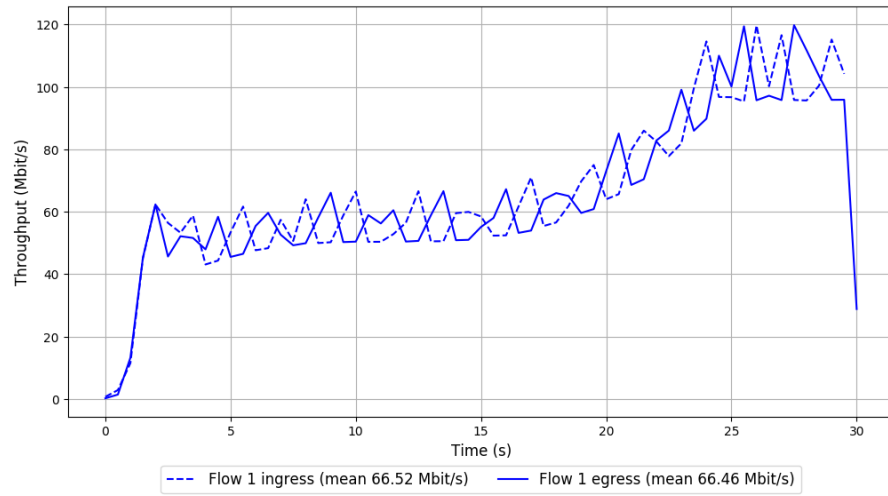
-- Flow 1:

Average throughput: 66.46 Mbit/s

95th percentile per-packet one-way delay: 118.189 ms

Loss rate: 0.09%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-03-26 23:43:51

End at: 2018-03-26 23:44:21

Below is generated by plot.py at 2018-03-27 02:18:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 80.64 Mbit/s

95th percentile per-packet one-way delay: 119.155 ms

Loss rate: 0.00%

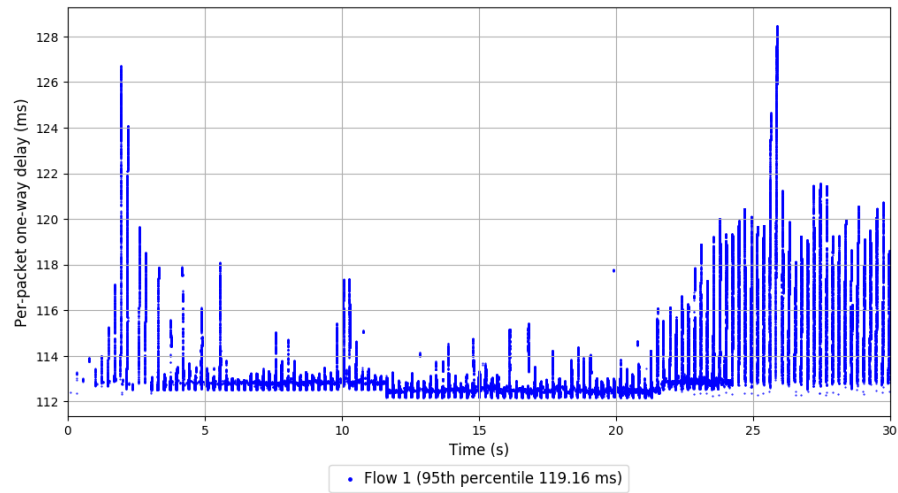
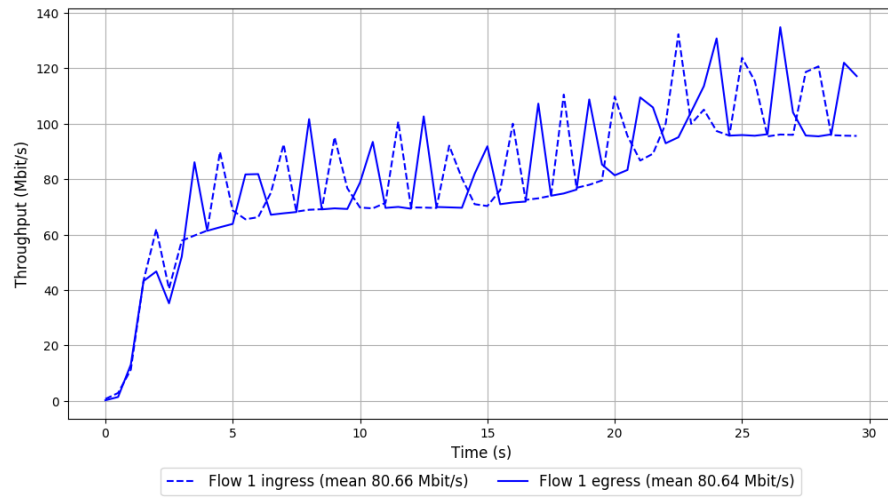
-- Flow 1:

Average throughput: 80.64 Mbit/s

95th percentile per-packet one-way delay: 119.155 ms

Loss rate: 0.00%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-03-26 23:59:34

End at: 2018-03-27 00:00:04

Below is generated by plot.py at 2018-03-27 02:19:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 66.12 Mbit/s

95th percentile per-packet one-way delay: 118.220 ms

Loss rate: 0.02%

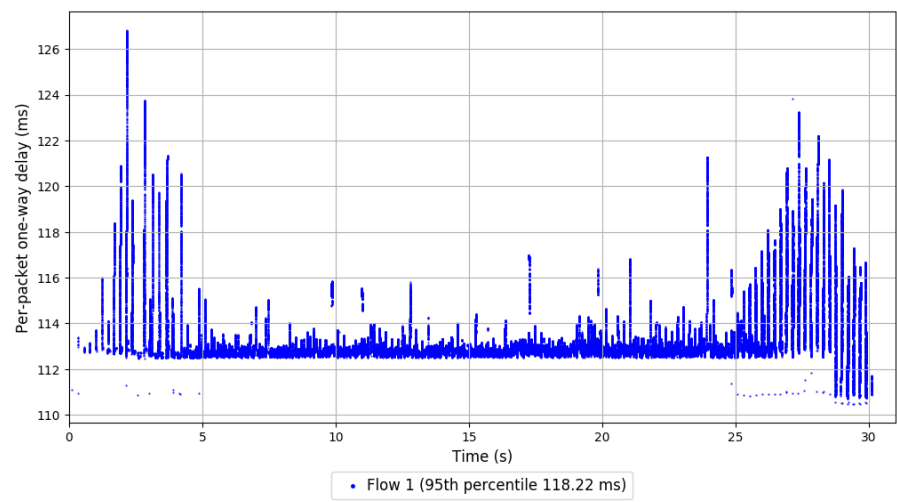
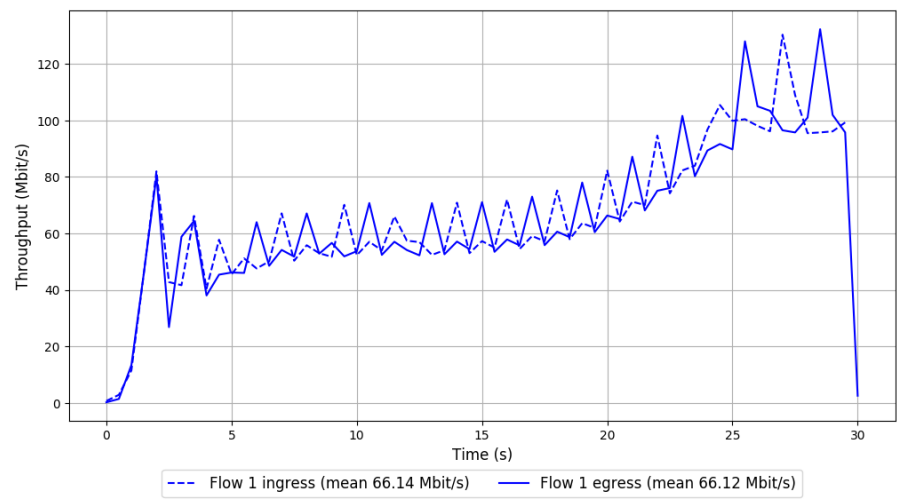
-- Flow 1:

Average throughput: 66.12 Mbit/s

95th percentile per-packet one-way delay: 118.220 ms

Loss rate: 0.02%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-03-27 00:14:55

End at: 2018-03-27 00:15:25

Below is generated by plot.py at 2018-03-27 02:19:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.24 Mbit/s

95th percentile per-packet one-way delay: 118.050 ms

Loss rate: 0.00%

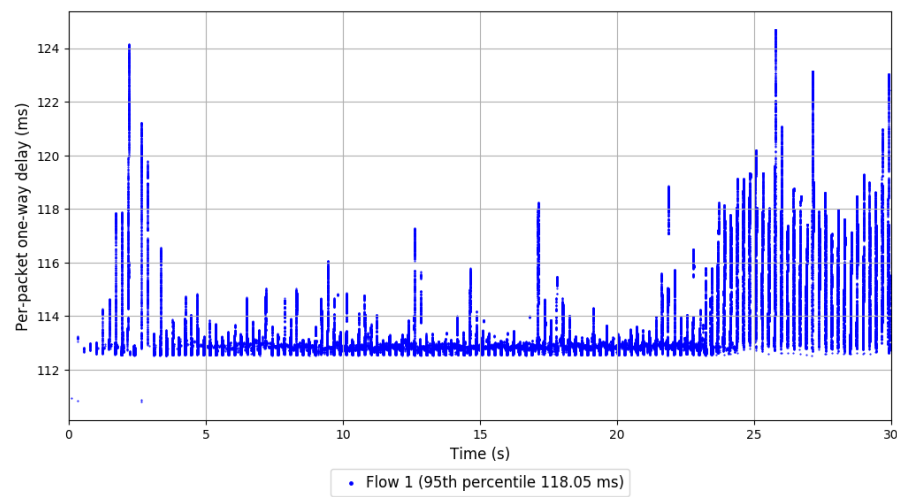
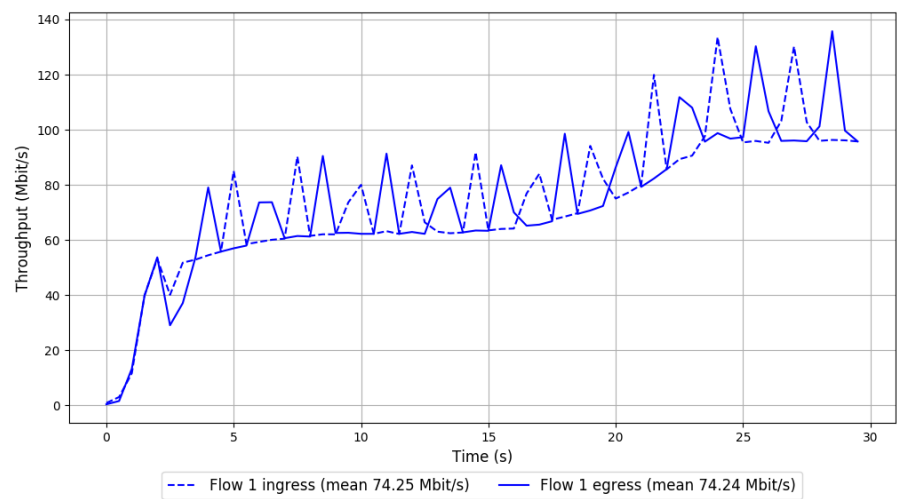
-- Flow 1:

Average throughput: 74.24 Mbit/s

95th percentile per-packet one-way delay: 118.050 ms

Loss rate: 0.00%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-03-27 00:30:18

End at: 2018-03-27 00:30:48

Below is generated by plot.py at 2018-03-27 02:19:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.73 Mbit/s

95th percentile per-packet one-way delay: 120.708 ms

Loss rate: 0.00%

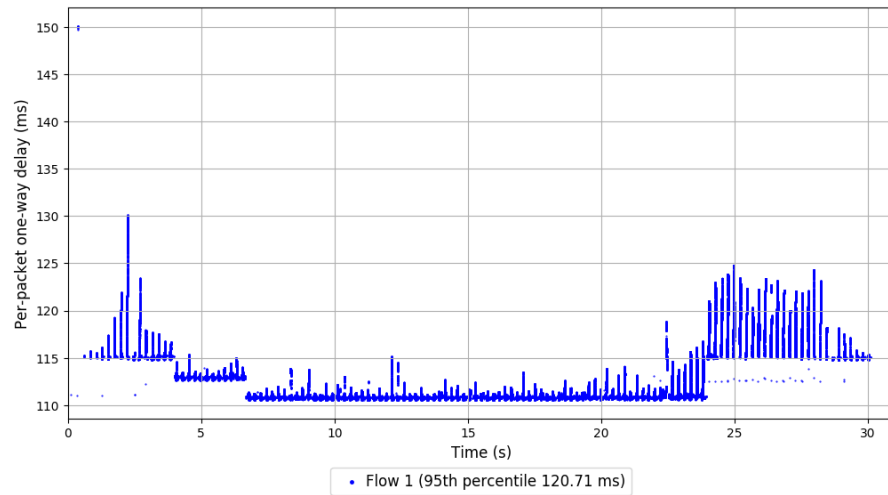
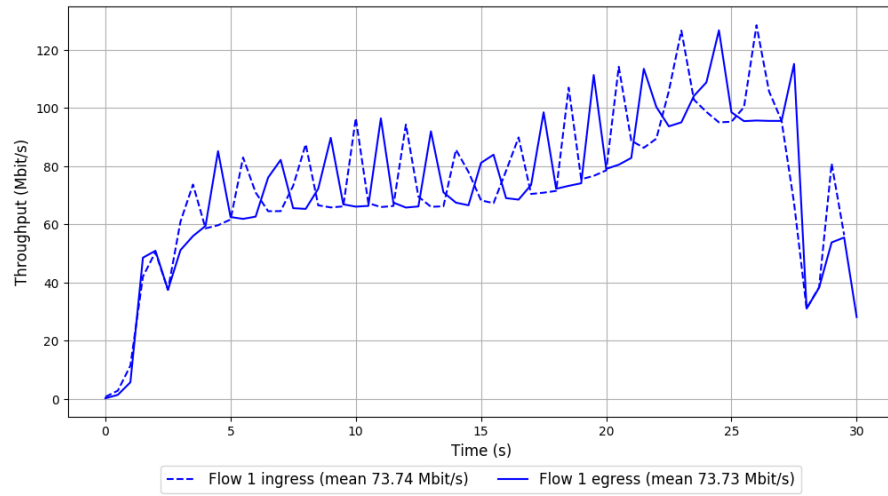
-- Flow 1:

Average throughput: 73.73 Mbit/s

95th percentile per-packet one-way delay: 120.708 ms

Loss rate: 0.00%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-03-27 00:45:51

End at: 2018-03-27 00:46:21

Below is generated by plot.py at 2018-03-27 02:19:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 61.95 Mbit/s

95th percentile per-packet one-way delay: 117.096 ms

Loss rate: 0.00%

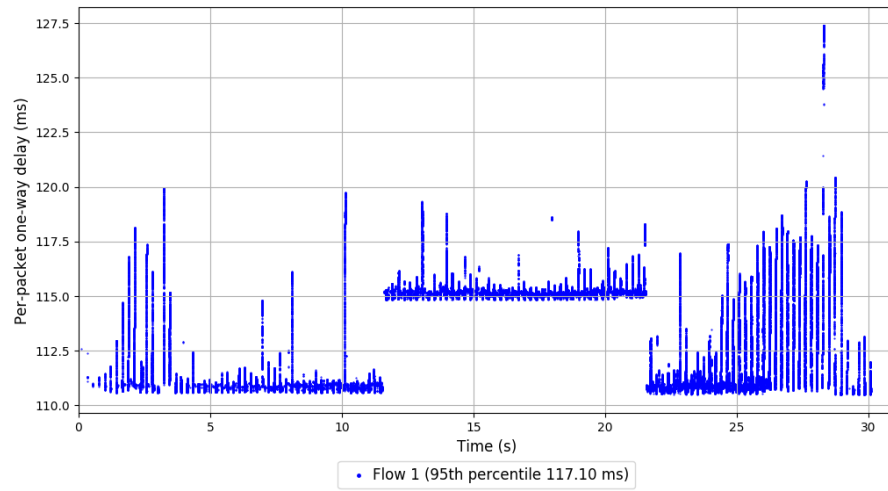
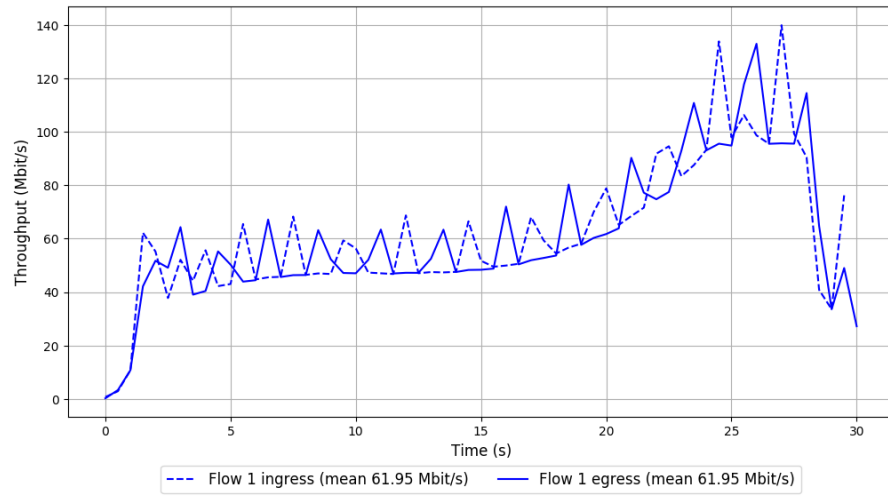
-- Flow 1:

Average throughput: 61.95 Mbit/s

95th percentile per-packet one-way delay: 117.096 ms

Loss rate: 0.00%

Run 10: Report of TCP Cubic — Data Link

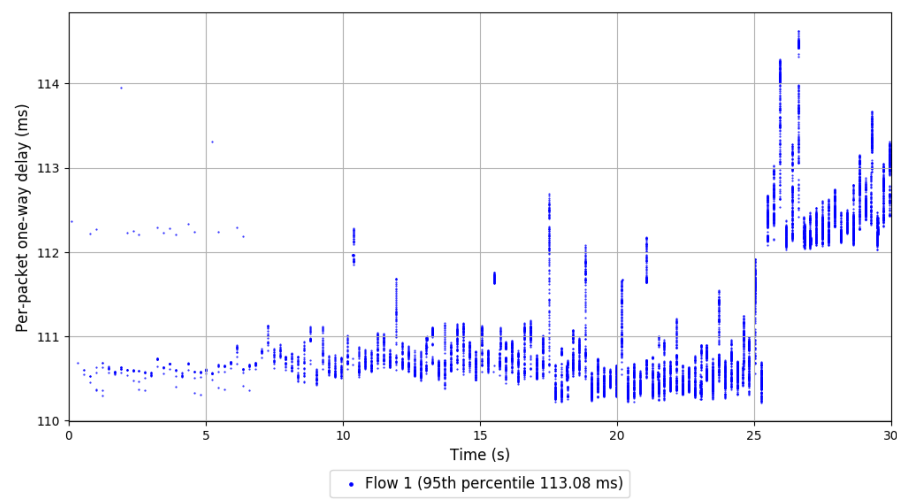
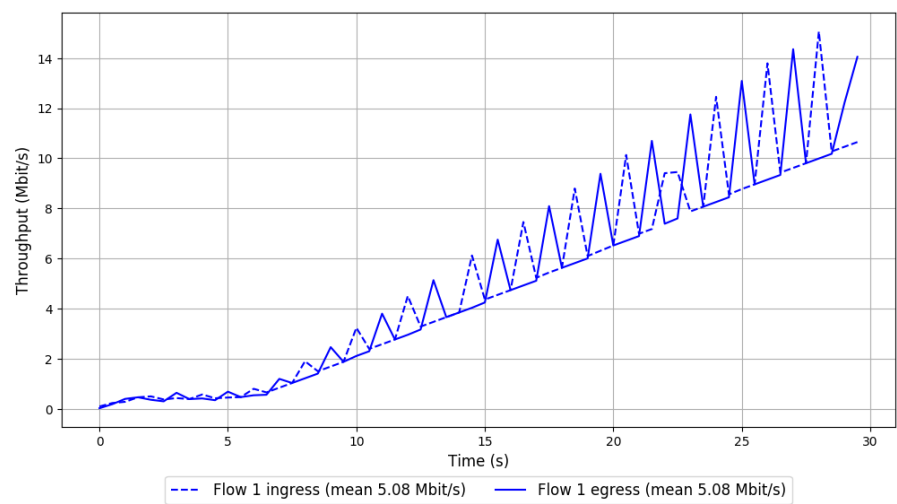


```
Run 1: Statistics of LEDBAT

Start at: 2018-03-26 22:22:17
End at: 2018-03-26 22:22:47

# Below is generated by plot.py at 2018-03-27 02:19:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.08 Mbit/s
95th percentile per-packet one-way delay: 113.080 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 5.08 Mbit/s
95th percentile per-packet one-way delay: 113.080 ms
Loss rate: 0.00%
```

Run 1: Report of LEDBAT — Data Link

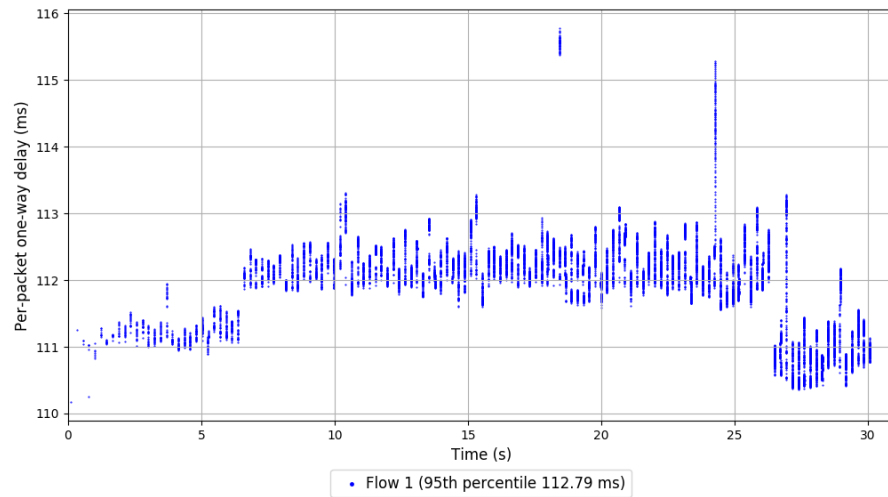
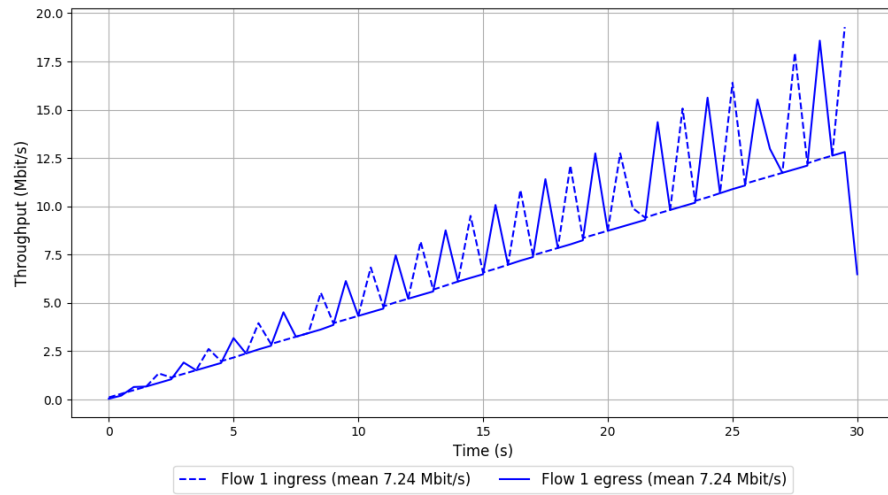


```
Run 2: Statistics of LEDBAT

Start at: 2018-03-26 22:37:56
End at: 2018-03-26 22:38:26

# Below is generated by plot.py at 2018-03-27 02:19:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.24 Mbit/s
95th percentile per-packet one-way delay: 112.790 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.24 Mbit/s
95th percentile per-packet one-way delay: 112.790 ms
Loss rate: 0.00%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-03-26 22:53:25

End at: 2018-03-26 22:53:55

Below is generated by plot.py at 2018-03-27 02:19:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.70 Mbit/s

95th percentile per-packet one-way delay: 112.758 ms

Loss rate: 0.00%

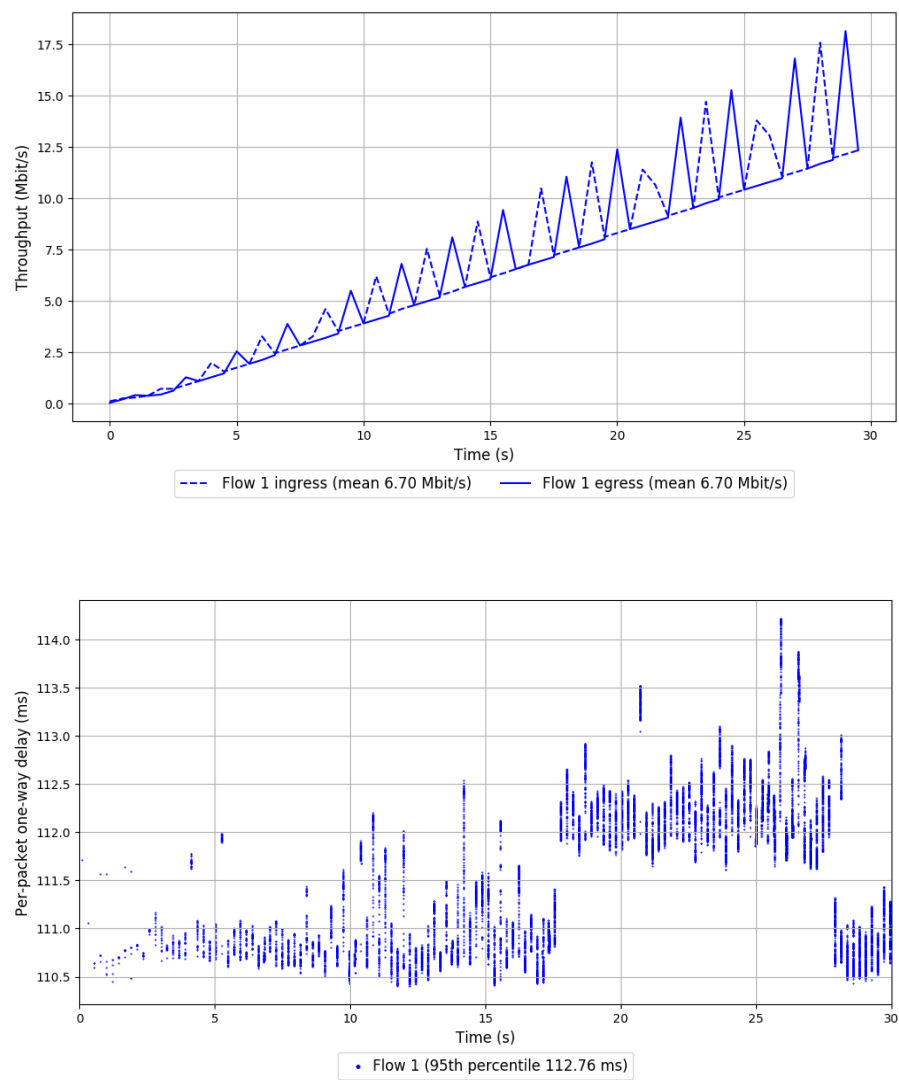
-- Flow 1:

Average throughput: 6.70 Mbit/s

95th percentile per-packet one-way delay: 112.758 ms

Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-03-26 23:09:06

End at: 2018-03-26 23:09:36

Below is generated by plot.py at 2018-03-27 02:19:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.09 Mbit/s

95th percentile per-packet one-way delay: 113.355 ms

Loss rate: 0.00%

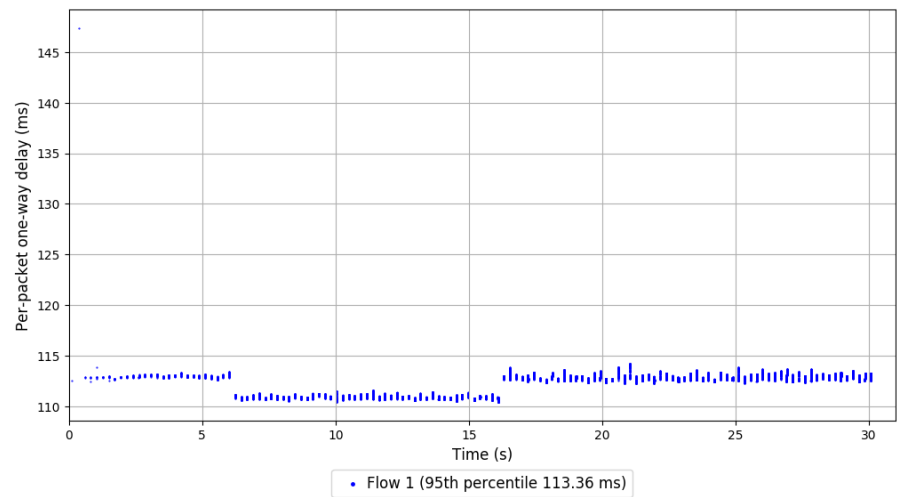
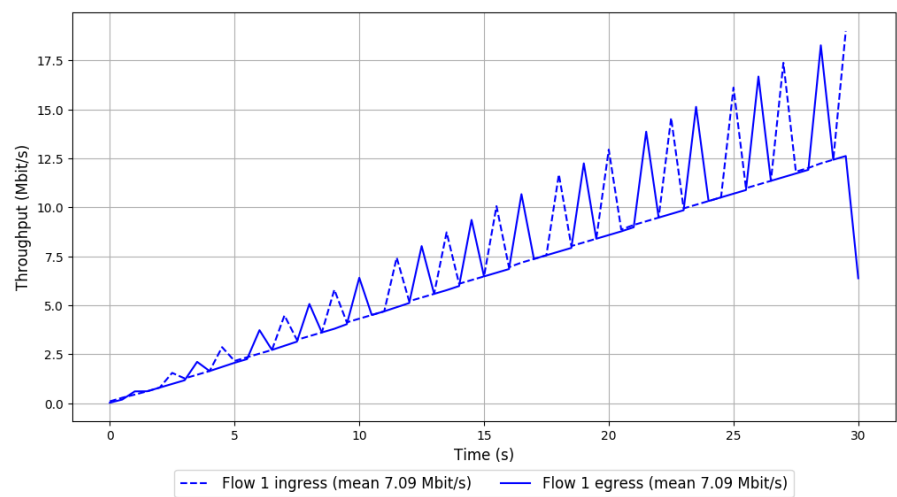
-- Flow 1:

Average throughput: 7.09 Mbit/s

95th percentile per-packet one-way delay: 113.355 ms

Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-03-26 23:24:29

End at: 2018-03-26 23:24:59

Below is generated by plot.py at 2018-03-27 02:19:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.20 Mbit/s

95th percentile per-packet one-way delay: 113.249 ms

Loss rate: 0.00%

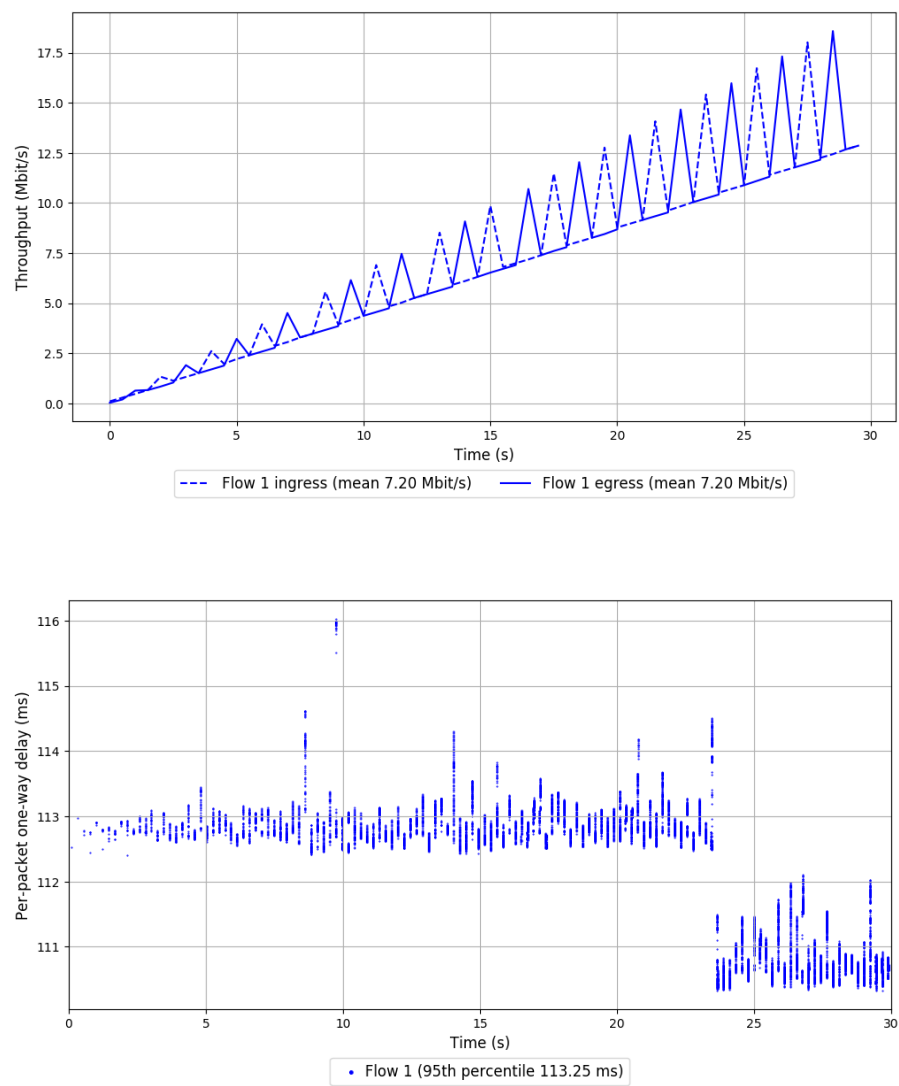
-- Flow 1:

Average throughput: 7.20 Mbit/s

95th percentile per-packet one-way delay: 113.249 ms

Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-03-26 23:39:57

End at: 2018-03-26 23:40:27

Below is generated by plot.py at 2018-03-27 02:19:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.08 Mbit/s

95th percentile per-packet one-way delay: 114.034 ms

Loss rate: 0.00%

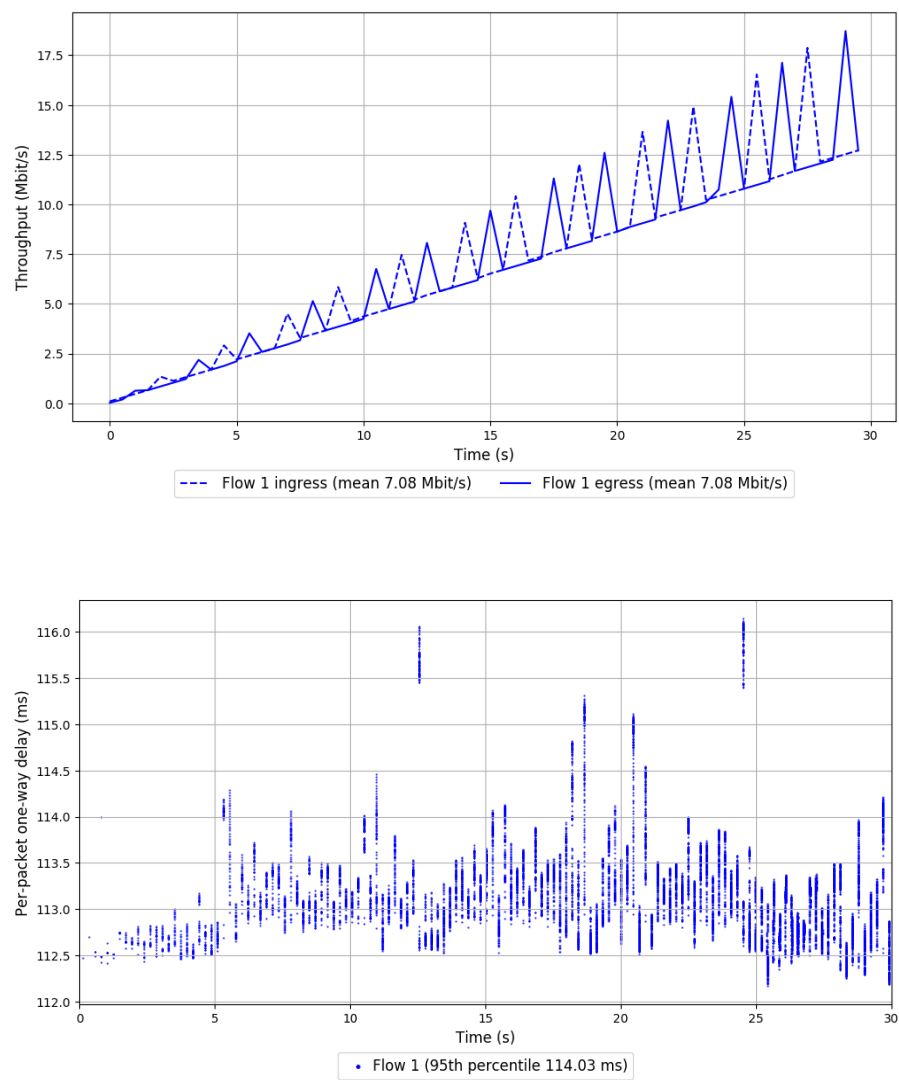
-- Flow 1:

Average throughput: 7.08 Mbit/s

95th percentile per-packet one-way delay: 114.034 ms

Loss rate: 0.00%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-03-26 23:55:47

End at: 2018-03-26 23:56:17

Below is generated by plot.py at 2018-03-27 02:19:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.18 Mbit/s

95th percentile per-packet one-way delay: 114.024 ms

Loss rate: 0.00%

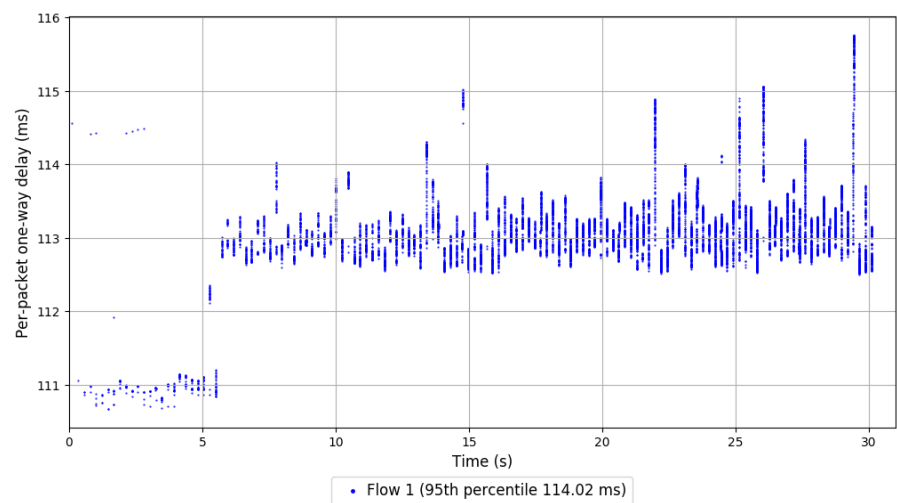
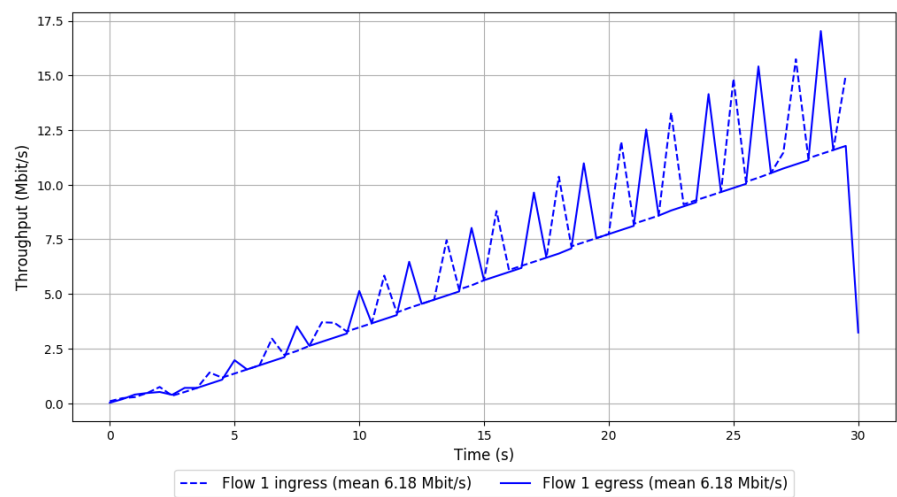
-- Flow 1:

Average throughput: 6.18 Mbit/s

95th percentile per-packet one-way delay: 114.024 ms

Loss rate: 0.00%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-03-27 00:11:08

End at: 2018-03-27 00:11:38

Below is generated by plot.py at 2018-03-27 02:19:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.44 Mbit/s

95th percentile per-packet one-way delay: 115.400 ms

Loss rate: 0.00%

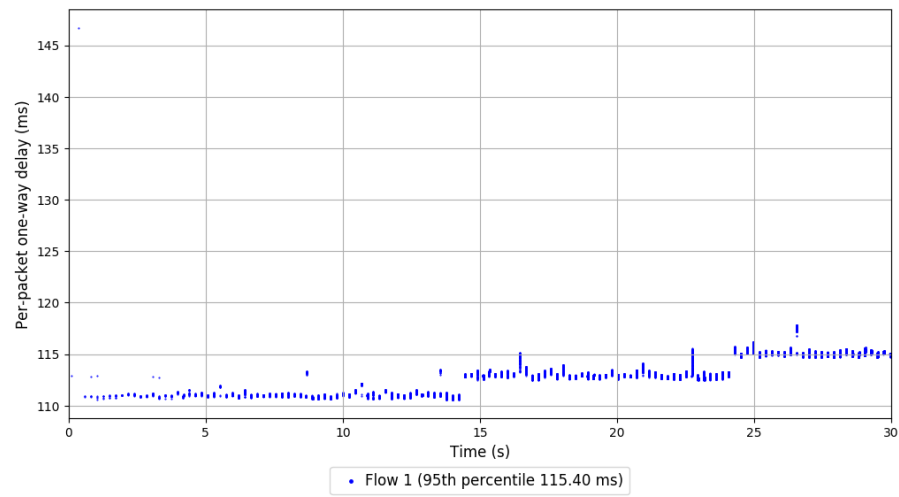
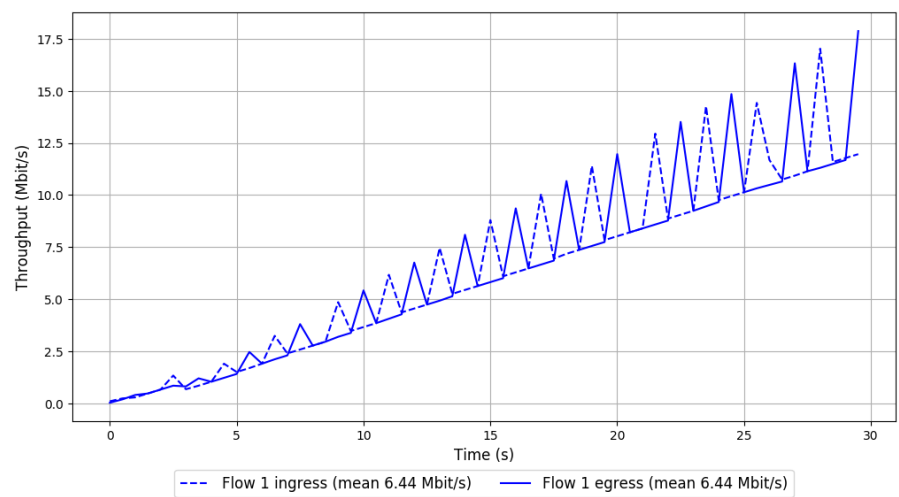
-- Flow 1:

Average throughput: 6.44 Mbit/s

95th percentile per-packet one-way delay: 115.400 ms

Loss rate: 0.00%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-03-27 00:26:28

End at: 2018-03-27 00:26:58

Below is generated by plot.py at 2018-03-27 02:19:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.93 Mbit/s

95th percentile per-packet one-way delay: 113.796 ms

Loss rate: 0.00%

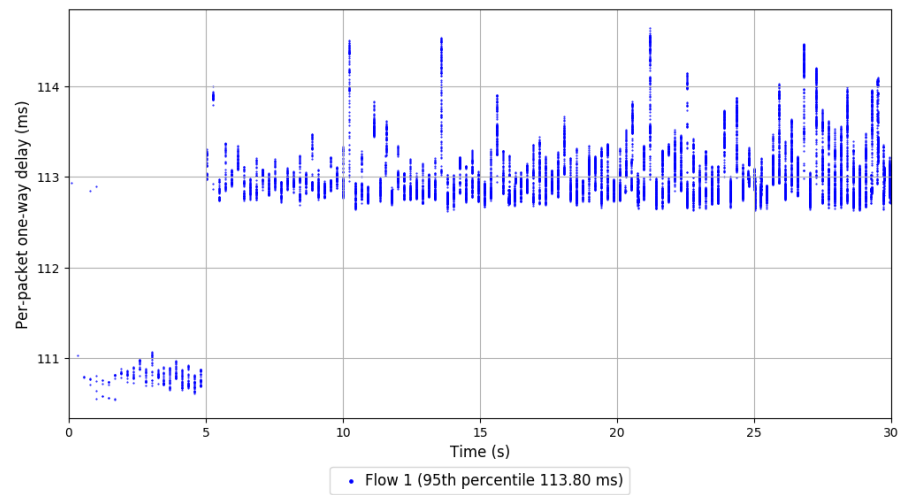
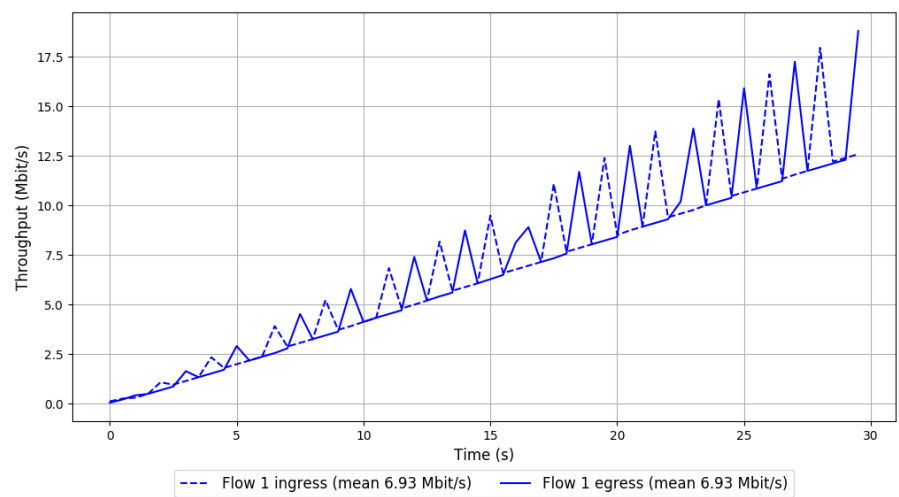
-- Flow 1:

Average throughput: 6.93 Mbit/s

95th percentile per-packet one-way delay: 113.796 ms

Loss rate: 0.00%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-03-27 00:42:00

End at: 2018-03-27 00:42:30

Below is generated by plot.py at 2018-03-27 02:19:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.99 Mbit/s

95th percentile per-packet one-way delay: 115.279 ms

Loss rate: 0.00%

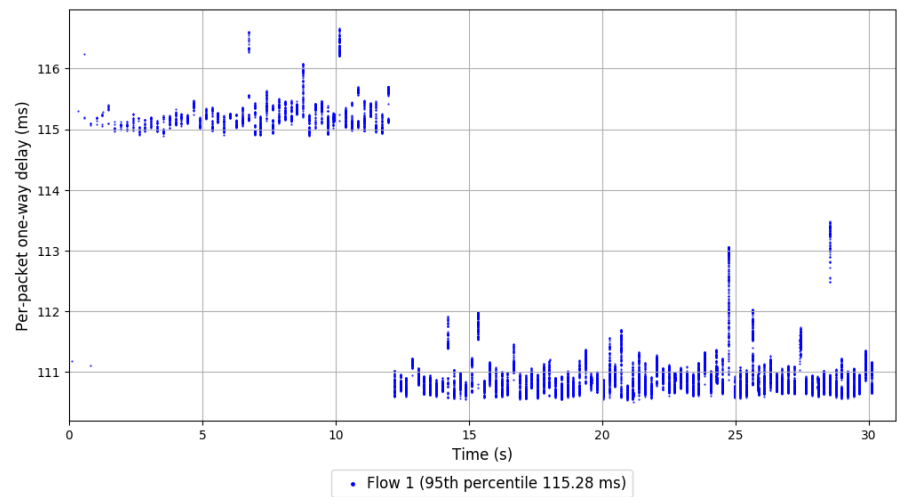
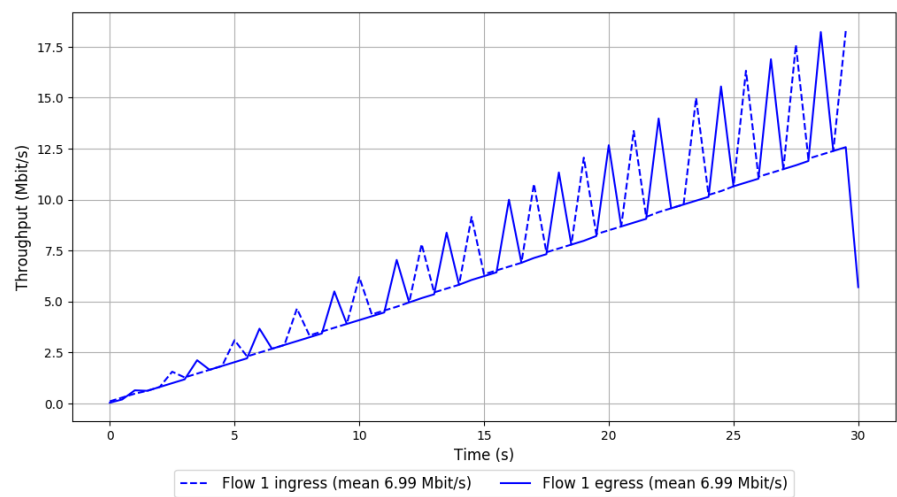
-- Flow 1:

Average throughput: 6.99 Mbit/s

95th percentile per-packet one-way delay: 115.279 ms

Loss rate: 0.00%

Run 10: Report of LEDBAT — Data Link

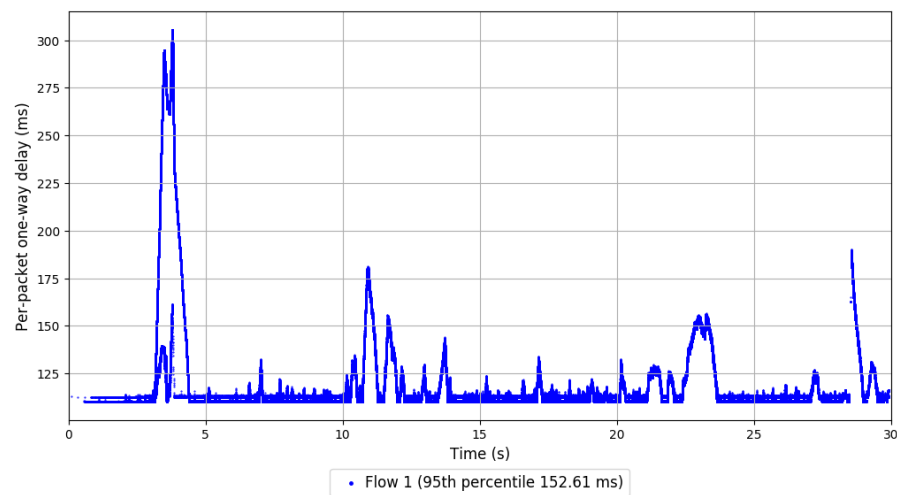
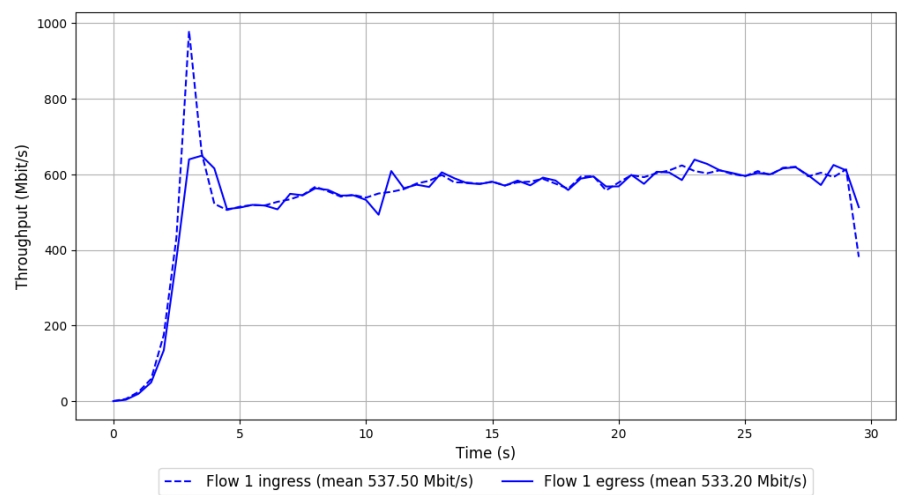


```
Run 1: Statistics of PCC

Start at: 2018-03-26 22:20:24
End at: 2018-03-26 22:20:54

# Below is generated by plot.py at 2018-03-27 02:27:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 533.20 Mbit/s
95th percentile per-packet one-way delay: 152.613 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 533.20 Mbit/s
95th percentile per-packet one-way delay: 152.613 ms
Loss rate: 0.81%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2018-03-26 22:36:04

End at: 2018-03-26 22:36:34

Below is generated by plot.py at 2018-03-27 02:27:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 521.46 Mbit/s

95th percentile per-packet one-way delay: 237.891 ms

Loss rate: 2.56%

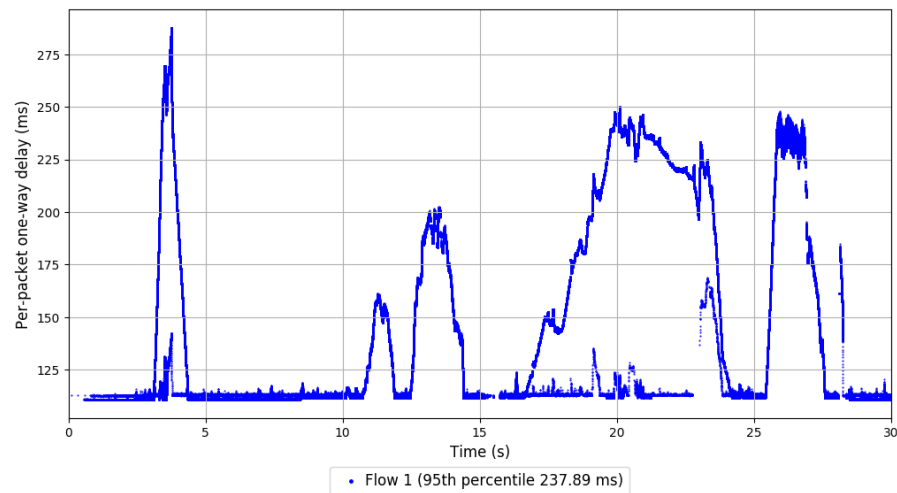
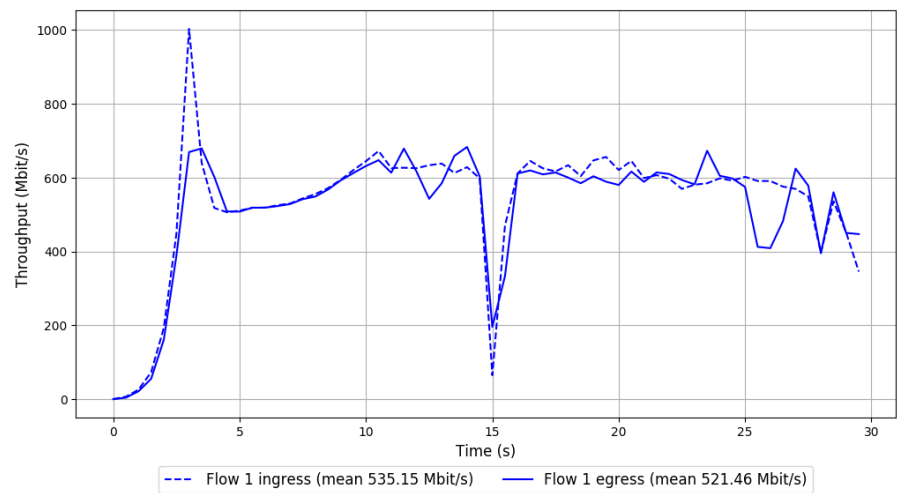
-- Flow 1:

Average throughput: 521.46 Mbit/s

95th percentile per-packet one-way delay: 237.891 ms

Loss rate: 2.56%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-03-26 22:51:33

End at: 2018-03-26 22:52:03

Below is generated by plot.py at 2018-03-27 02:27:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 491.45 Mbit/s

95th percentile per-packet one-way delay: 164.720 ms

Loss rate: 0.77%

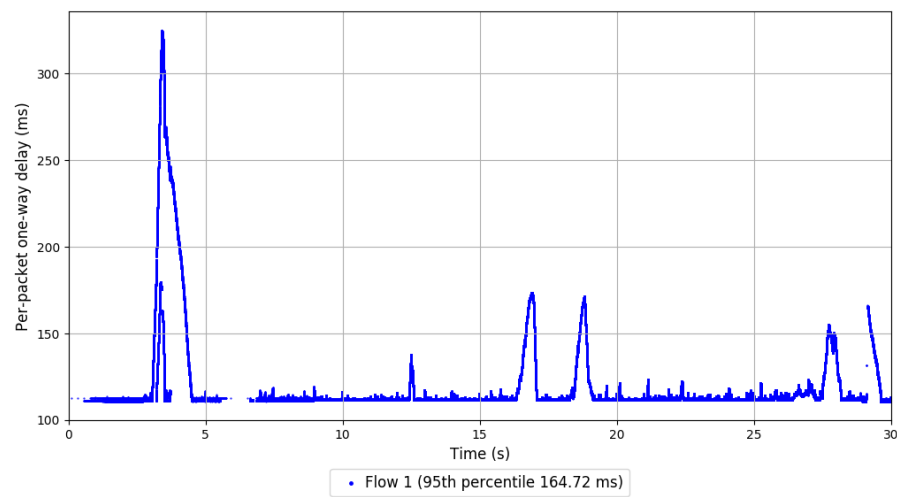
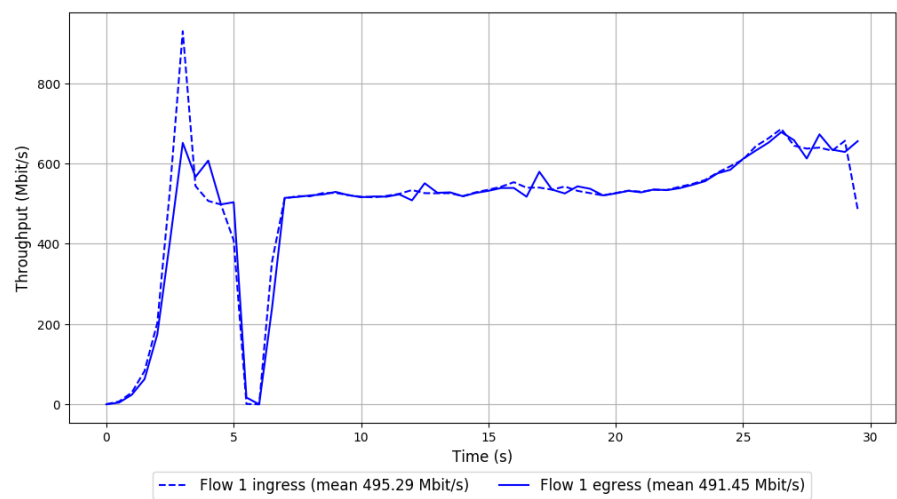
-- Flow 1:

Average throughput: 491.45 Mbit/s

95th percentile per-packet one-way delay: 164.720 ms

Loss rate: 0.77%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-03-26 23:07:10

End at: 2018-03-26 23:07:40

Below is generated by plot.py at 2018-03-27 02:27:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 545.81 Mbit/s

95th percentile per-packet one-way delay: 155.086 ms

Loss rate: 0.62%

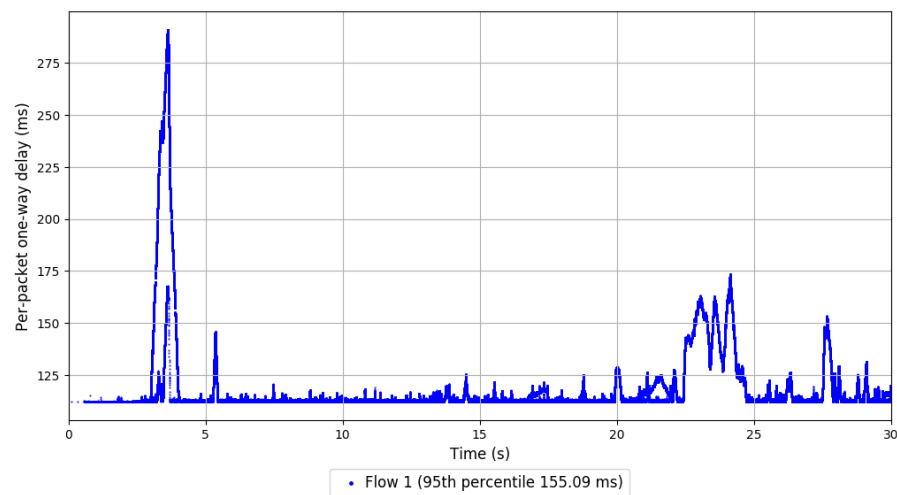
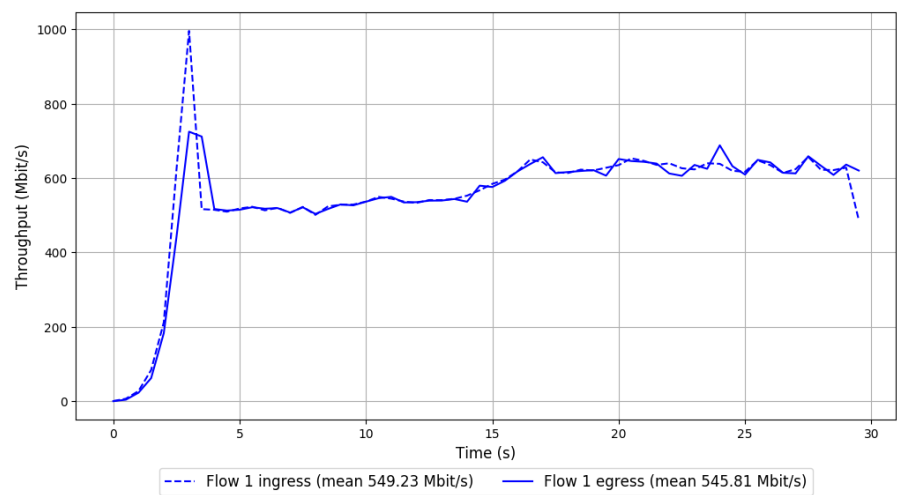
-- Flow 1:

Average throughput: 545.81 Mbit/s

95th percentile per-packet one-way delay: 155.086 ms

Loss rate: 0.62%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-03-26 23:22:35

End at: 2018-03-26 23:23:05

Below is generated by plot.py at 2018-03-27 02:28:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 560.46 Mbit/s

95th percentile per-packet one-way delay: 225.067 ms

Loss rate: 1.07%

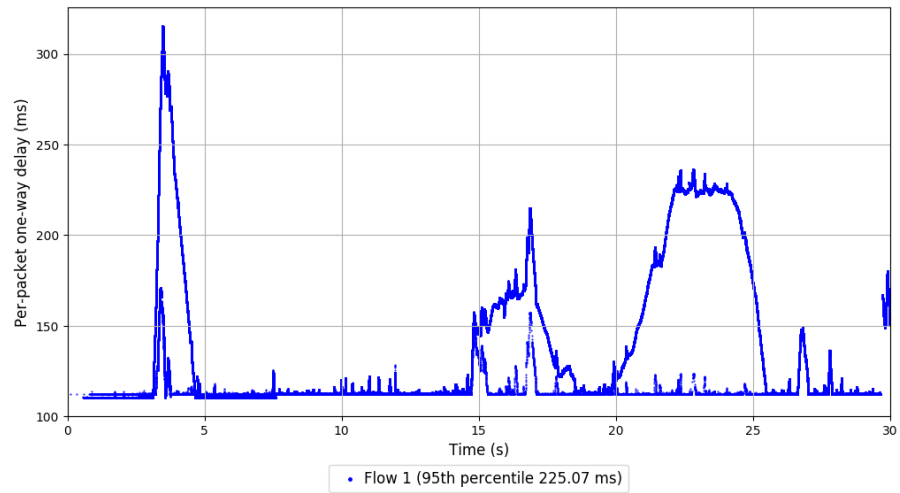
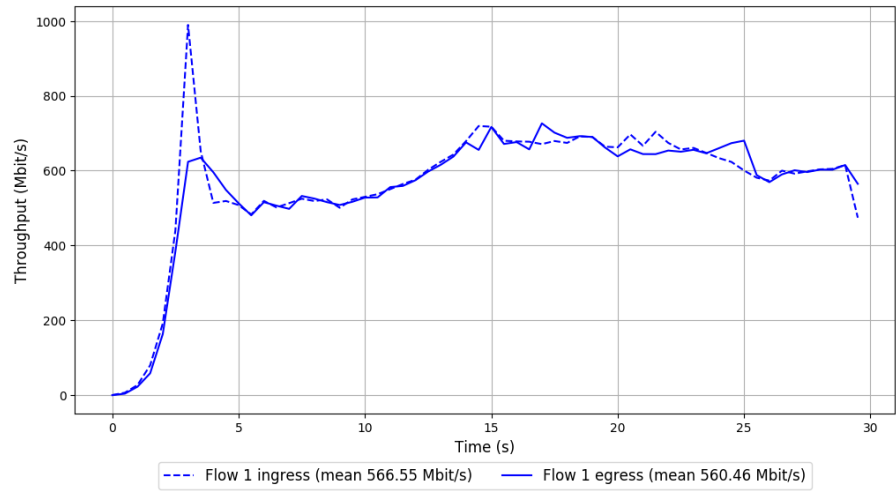
-- Flow 1:

Average throughput: 560.46 Mbit/s

95th percentile per-packet one-way delay: 225.067 ms

Loss rate: 1.07%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-03-26 23:38:01

End at: 2018-03-26 23:38:31

Below is generated by plot.py at 2018-03-27 02:28:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 522.93 Mbit/s

95th percentile per-packet one-way delay: 123.628 ms

Loss rate: 0.80%

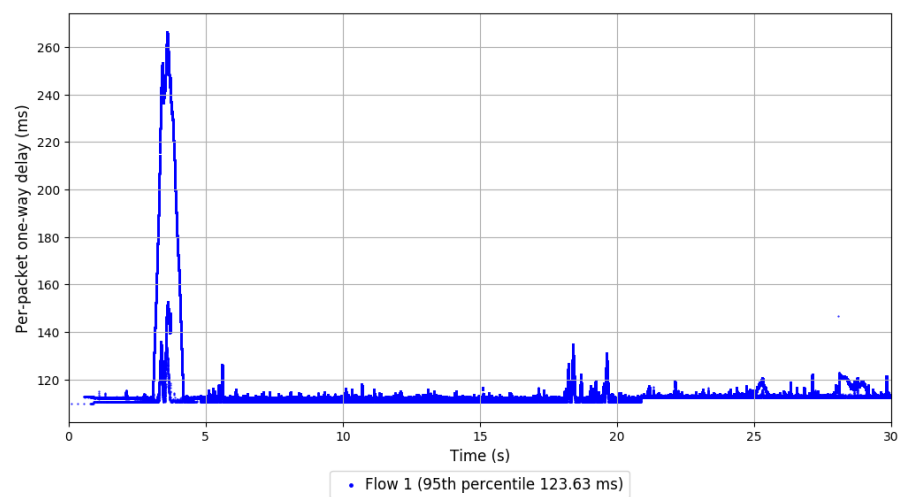
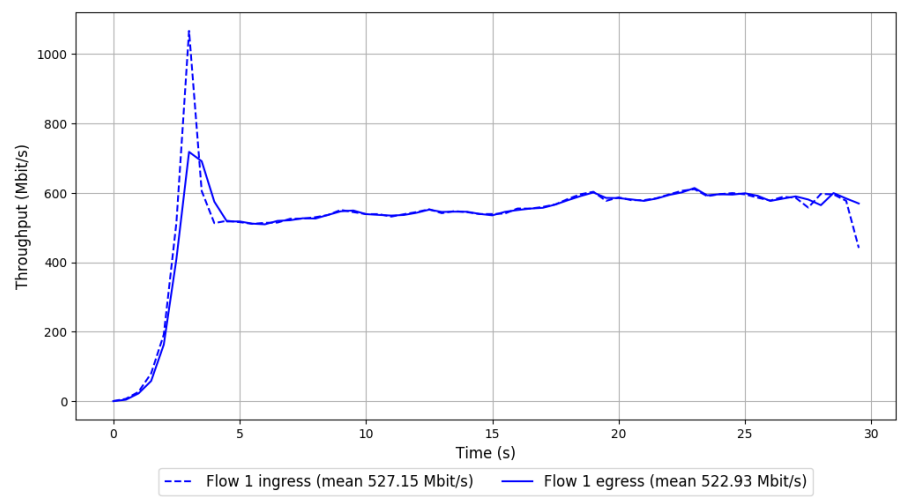
-- Flow 1:

Average throughput: 522.93 Mbit/s

95th percentile per-packet one-way delay: 123.628 ms

Loss rate: 0.80%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-03-26 23:53:51

End at: 2018-03-26 23:54:21

Below is generated by plot.py at 2018-03-27 02:28:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 531.93 Mbit/s

95th percentile per-packet one-way delay: 252.168 ms

Loss rate: 2.45%

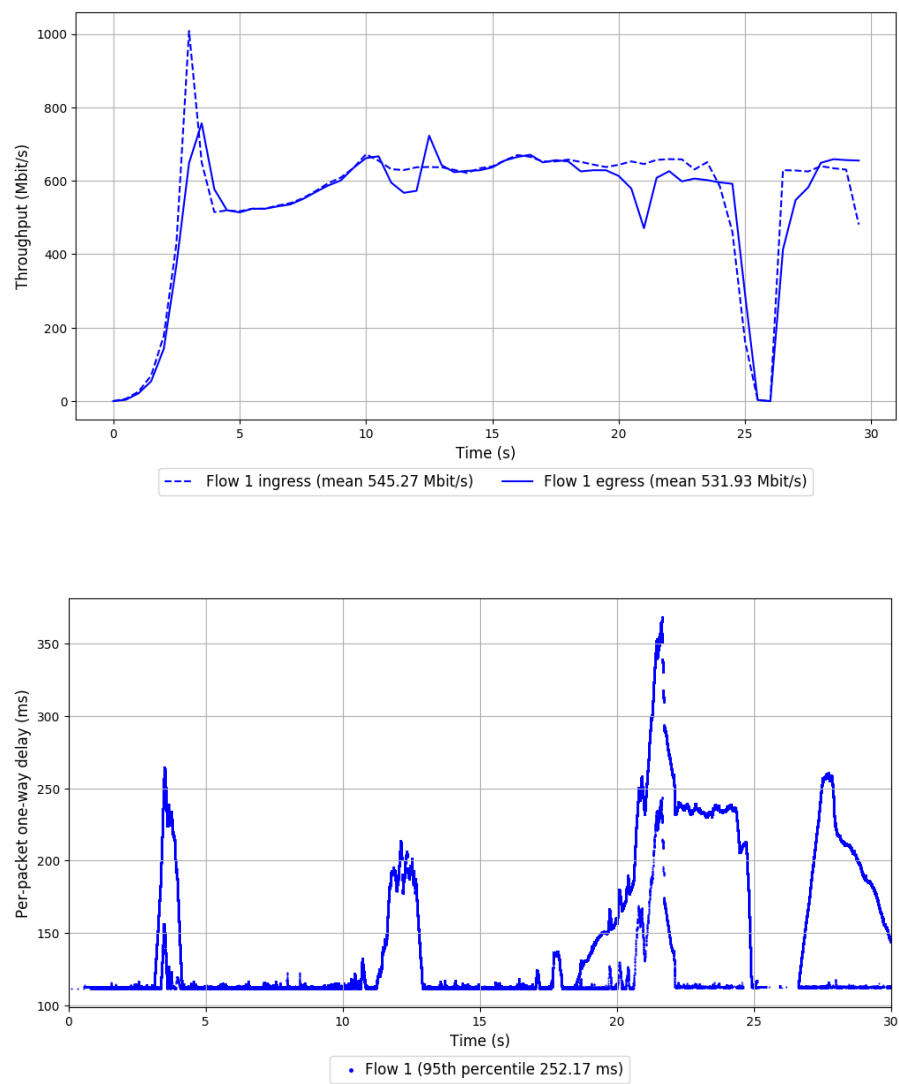
-- Flow 1:

Average throughput: 531.93 Mbit/s

95th percentile per-packet one-way delay: 252.168 ms

Loss rate: 2.45%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-03-27 00:09:15

End at: 2018-03-27 00:09:45

Below is generated by plot.py at 2018-03-27 02:28:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 542.81 Mbit/s

95th percentile per-packet one-way delay: 233.639 ms

Loss rate: 1.66%

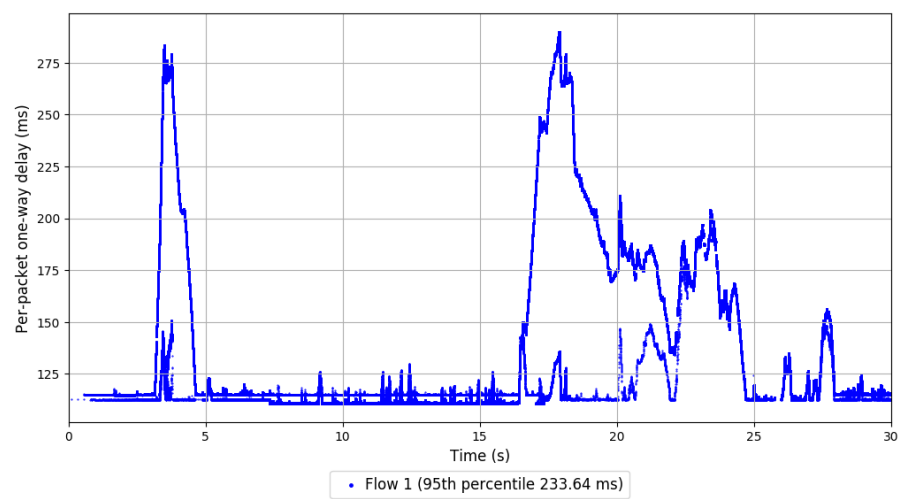
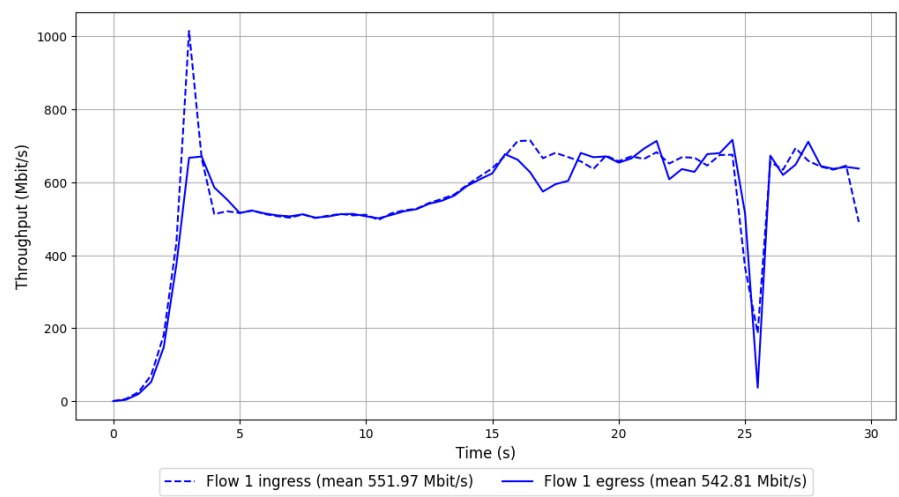
-- Flow 1:

Average throughput: 542.81 Mbit/s

95th percentile per-packet one-way delay: 233.639 ms

Loss rate: 1.66%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2018-03-27 00:24:33

End at: 2018-03-27 00:25:03

Below is generated by plot.py at 2018-03-27 02:37:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 578.29 Mbit/s

95th percentile per-packet one-way delay: 283.788 ms

Loss rate: 3.80%

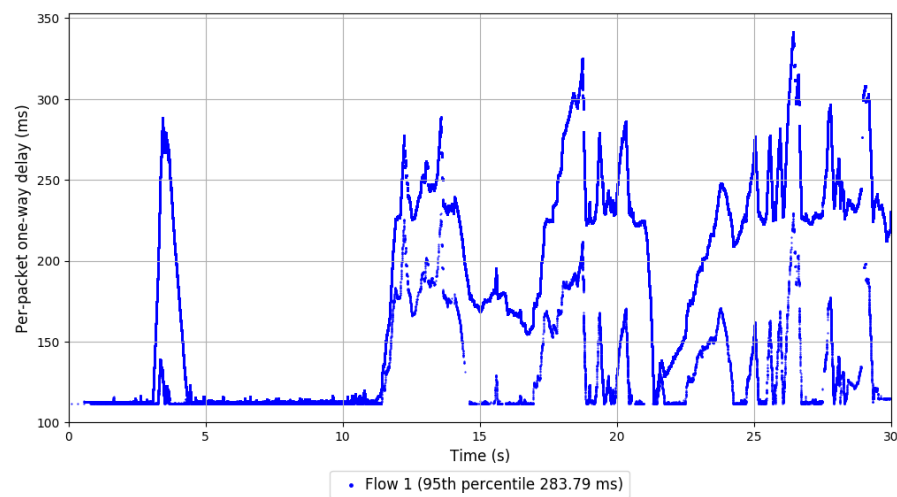
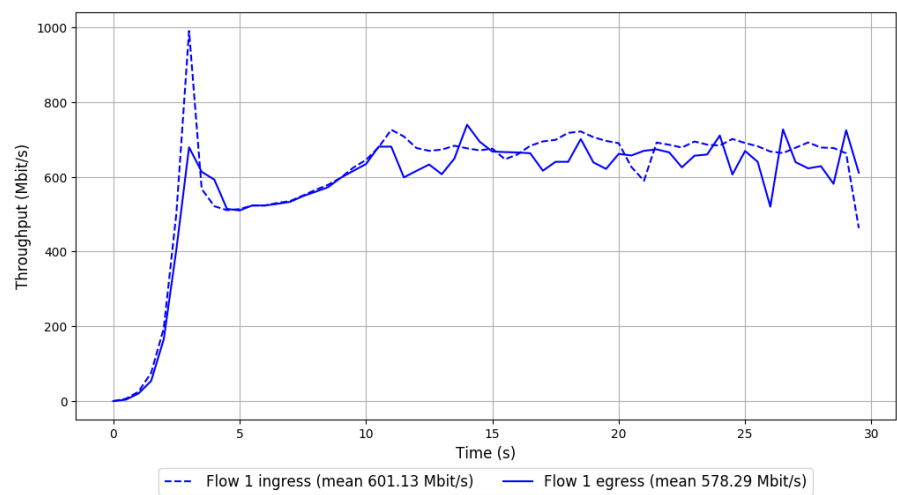
-- Flow 1:

Average throughput: 578.29 Mbit/s

95th percentile per-packet one-way delay: 283.788 ms

Loss rate: 3.80%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2018-03-27 00:40:02

End at: 2018-03-27 00:40:32

Below is generated by plot.py at 2018-03-27 02:37:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 564.37 Mbit/s

95th percentile per-packet one-way delay: 168.116 ms

Loss rate: 1.45%

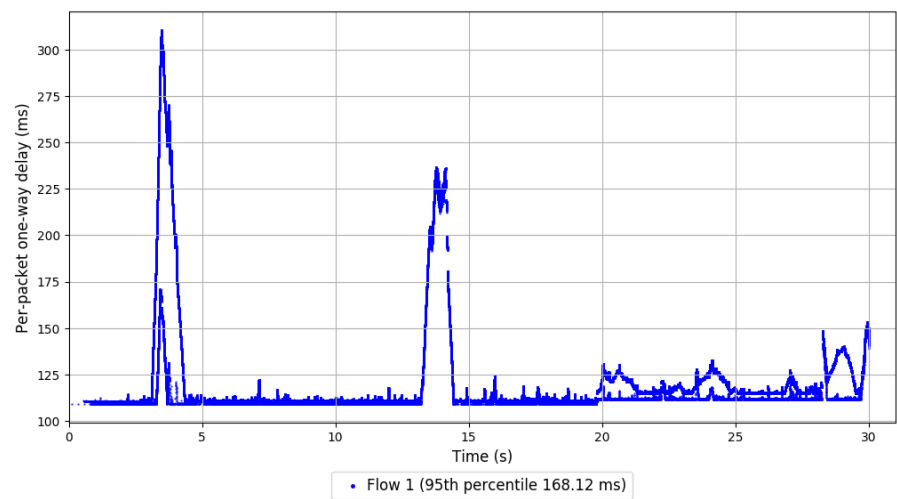
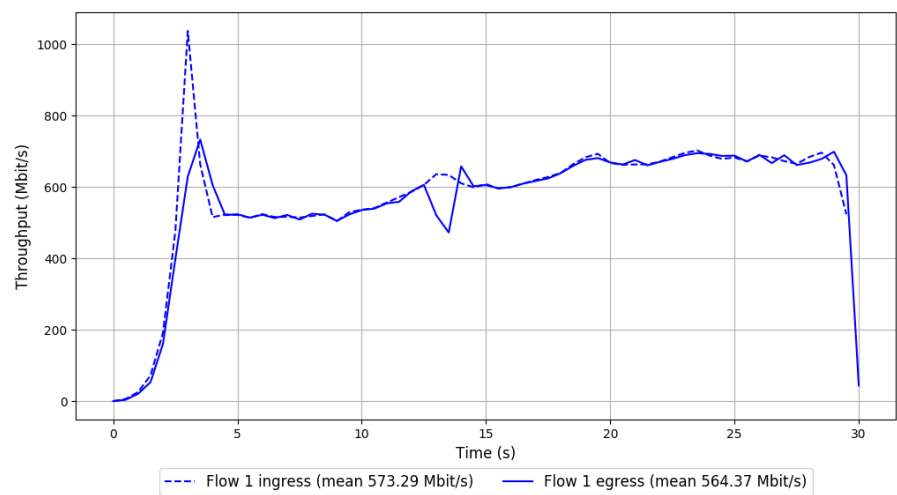
-- Flow 1:

Average throughput: 564.37 Mbit/s

95th percentile per-packet one-way delay: 168.116 ms

Loss rate: 1.45%

Run 10: Report of PCC — Data Link

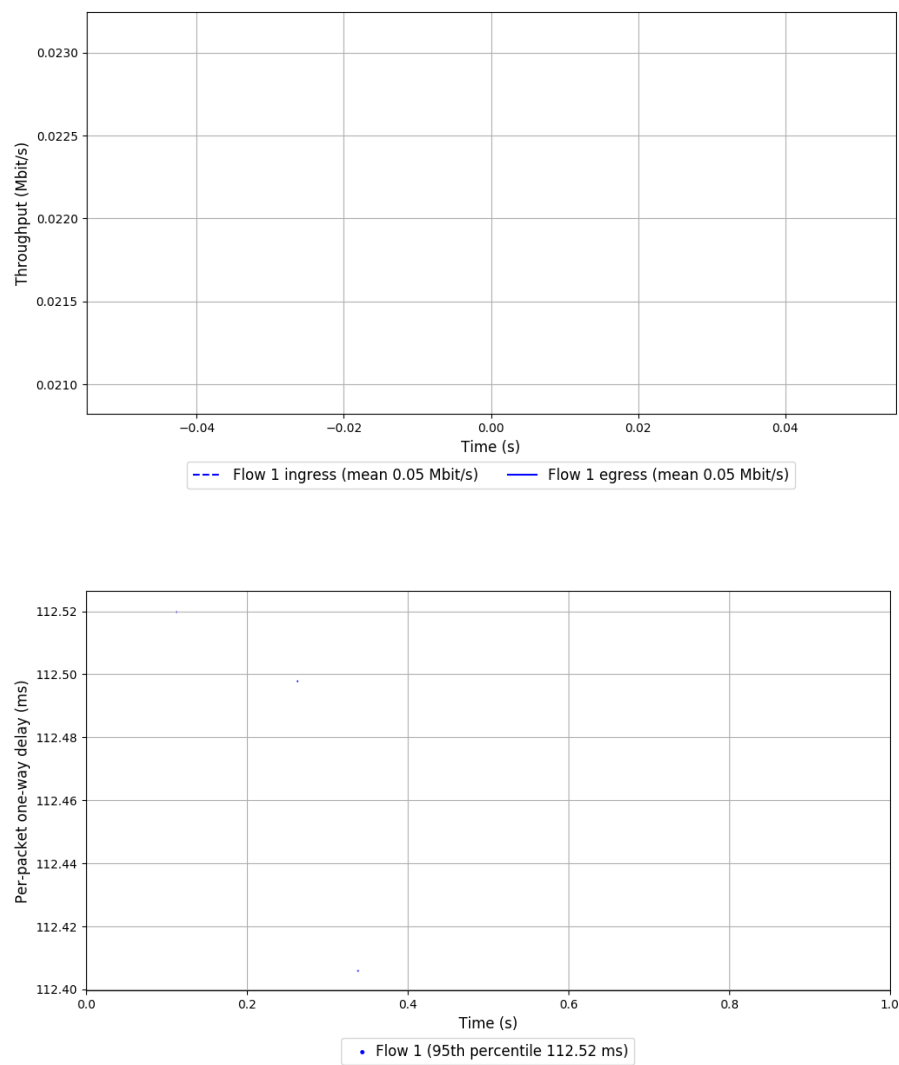


Run 1: Statistics of QUIC Cubic

Start at: 2018-03-26 22:34:30

End at: 2018-03-26 22:35:00

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-03-26 22:49:56

End at: 2018-03-26 22:50:26

Below is generated by plot.py at 2018-03-27 02:37:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.85 Mbit/s

95th percentile per-packet one-way delay: 113.591 ms

Loss rate: 0.00%

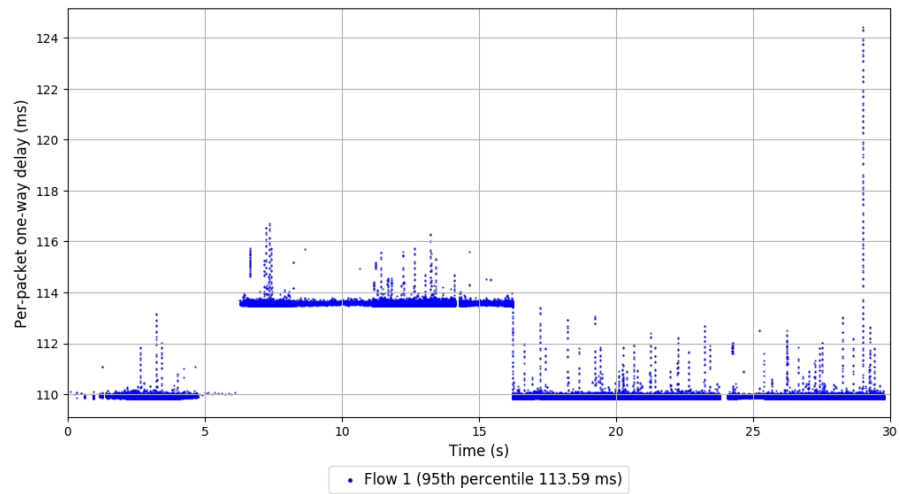
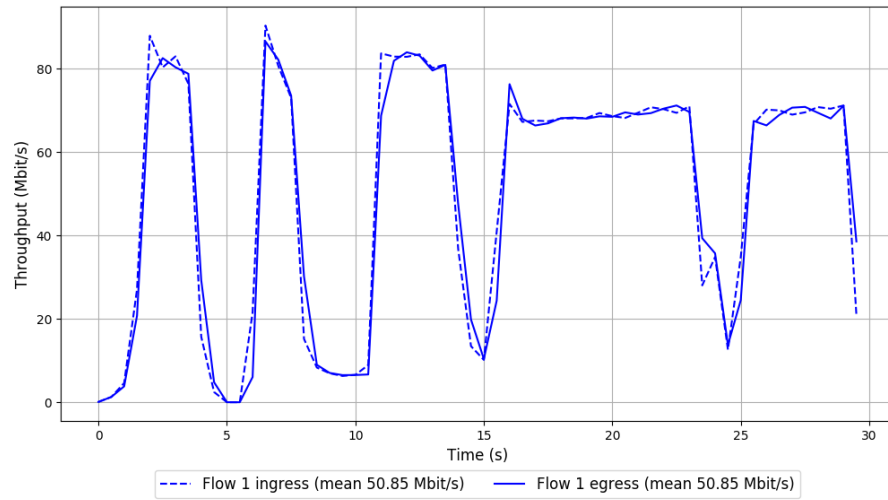
-- Flow 1:

Average throughput: 50.85 Mbit/s

95th percentile per-packet one-way delay: 113.591 ms

Loss rate: 0.00%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-03-26 23:05:32

End at: 2018-03-26 23:06:02

Below is generated by plot.py at 2018-03-27 02:37:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 52.92 Mbit/s

95th percentile per-packet one-way delay: 112.390 ms

Loss rate: 0.00%

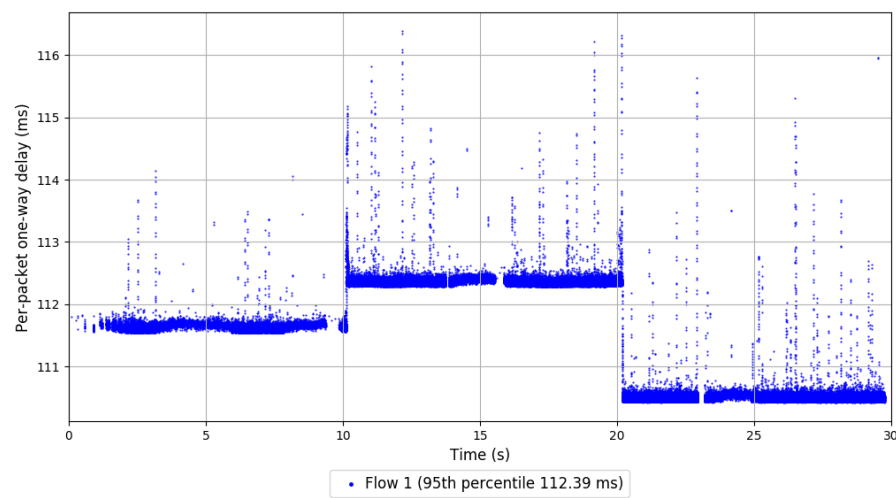
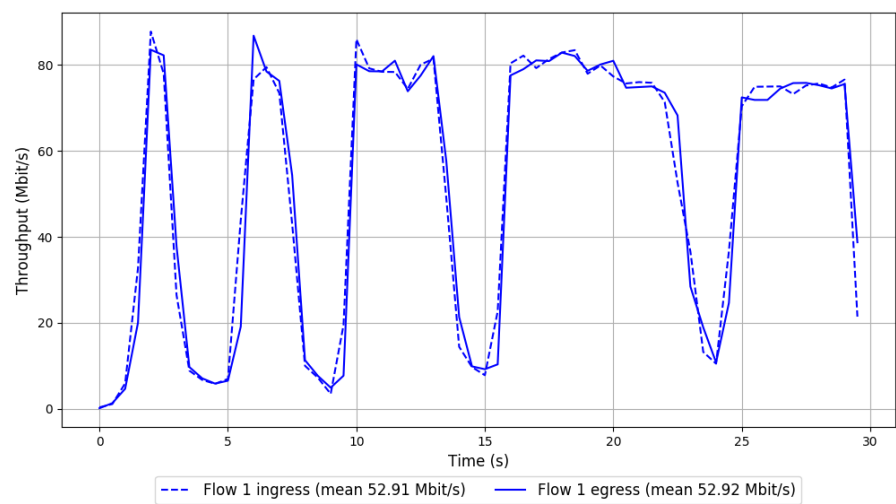
-- Flow 1:

Average throughput: 52.92 Mbit/s

95th percentile per-packet one-way delay: 112.390 ms

Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-03-26 23:20:57

End at: 2018-03-26 23:21:27

Below is generated by plot.py at 2018-03-27 02:37:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 48.69 Mbit/s

95th percentile per-packet one-way delay: 112.342 ms

Loss rate: 0.00%

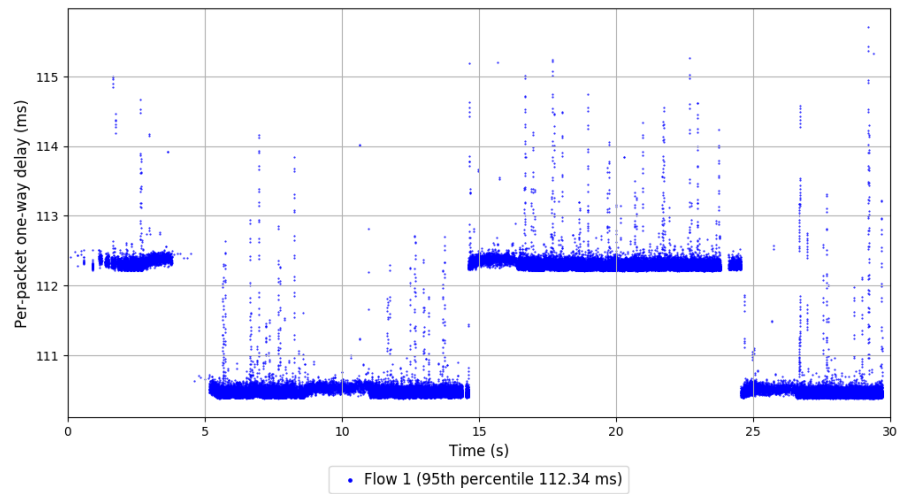
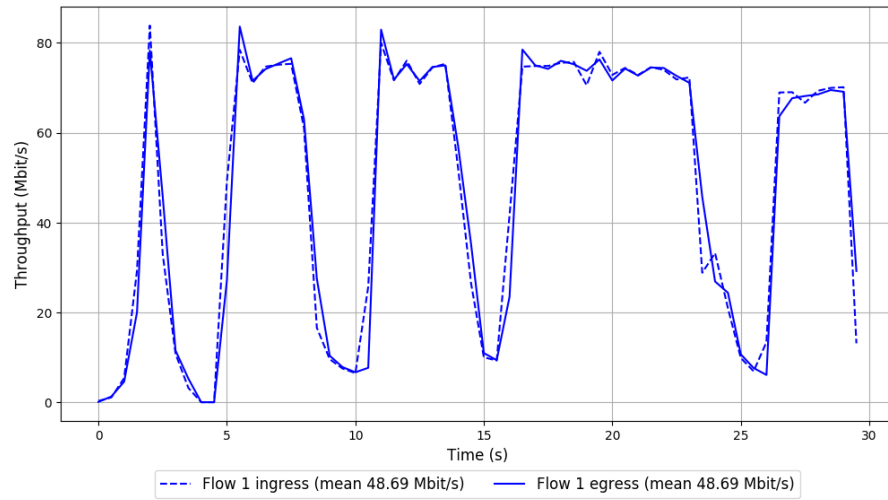
-- Flow 1:

Average throughput: 48.69 Mbit/s

95th percentile per-packet one-way delay: 112.342 ms

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-03-26 23:36:24

End at: 2018-03-26 23:36:54

Below is generated by plot.py at 2018-03-27 02:37:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 54.20 Mbit/s

95th percentile per-packet one-way delay: 112.415 ms

Loss rate: 0.00%

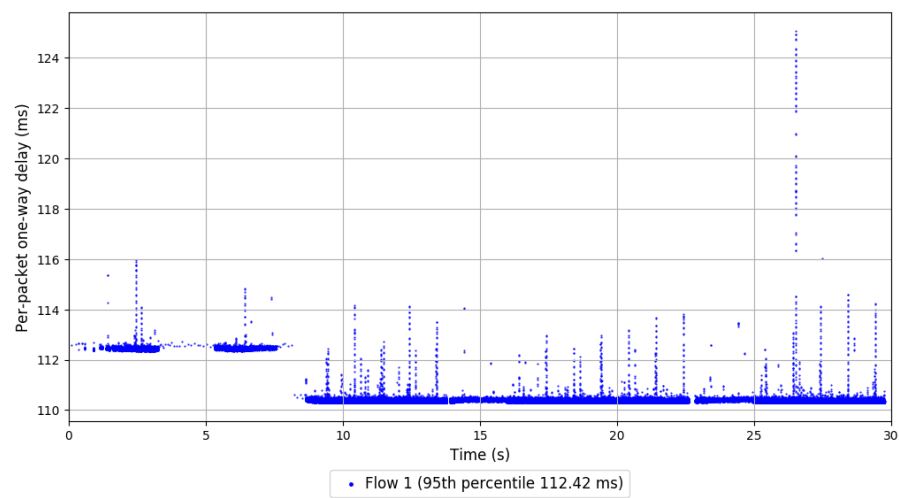
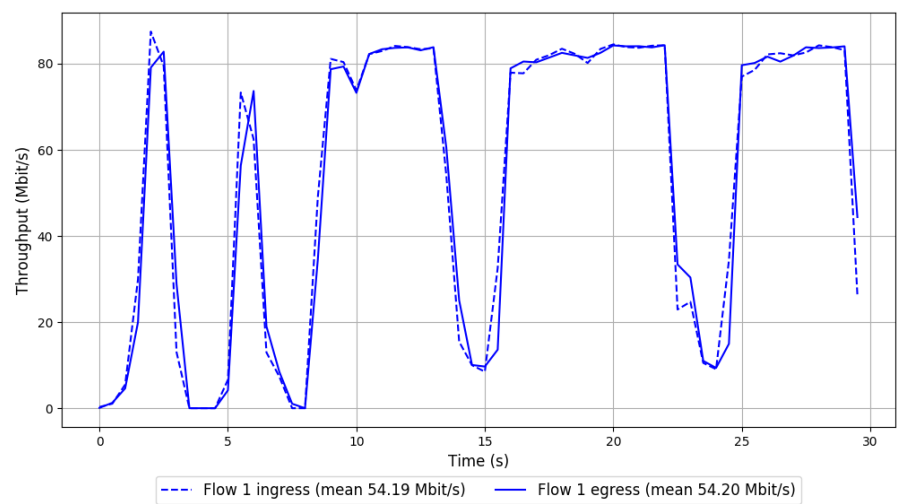
-- Flow 1:

Average throughput: 54.20 Mbit/s

95th percentile per-packet one-way delay: 112.415 ms

Loss rate: 0.00%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-03-26 23:52:14

End at: 2018-03-26 23:52:44

Below is generated by plot.py at 2018-03-27 02:37:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 49.60 Mbit/s

95th percentile per-packet one-way delay: 112.563 ms

Loss rate: 0.00%

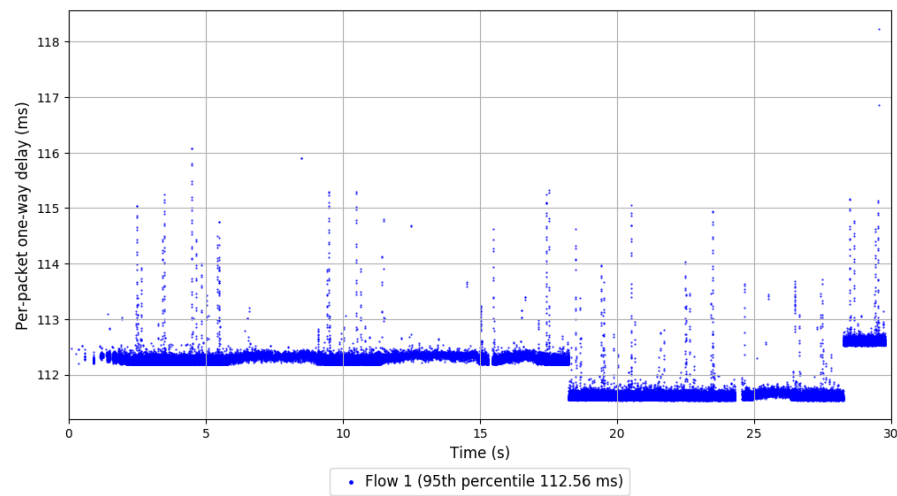
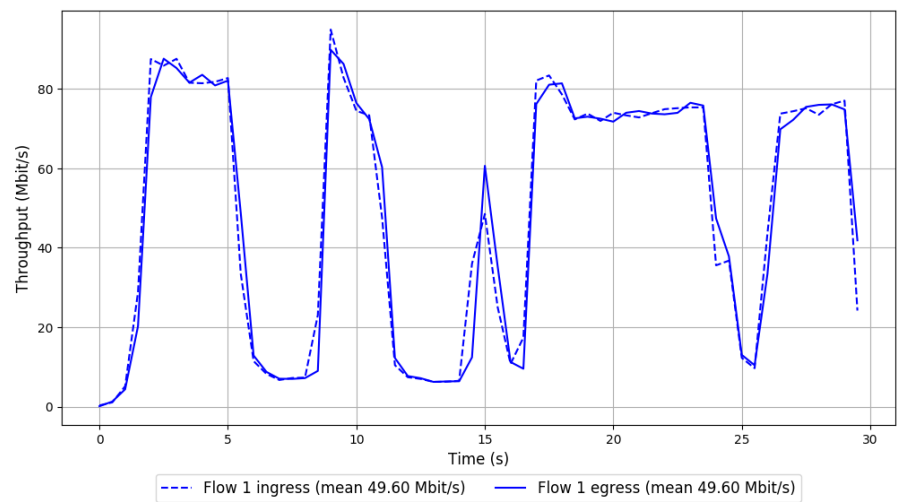
-- Flow 1:

Average throughput: 49.60 Mbit/s

95th percentile per-packet one-way delay: 112.563 ms

Loss rate: 0.00%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-03-27 00:07:37

End at: 2018-03-27 00:08:07

Below is generated by plot.py at 2018-03-27 02:37:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 54.53 Mbit/s

95th percentile per-packet one-way delay: 111.643 ms

Loss rate: 0.00%

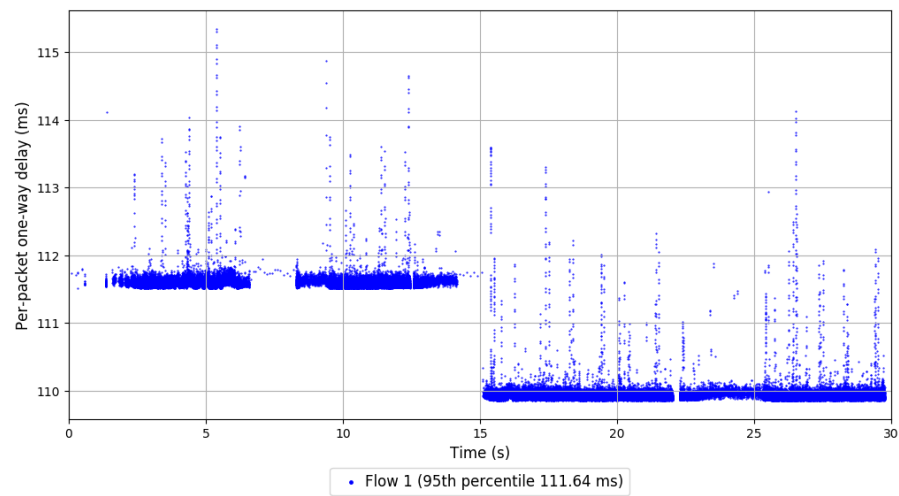
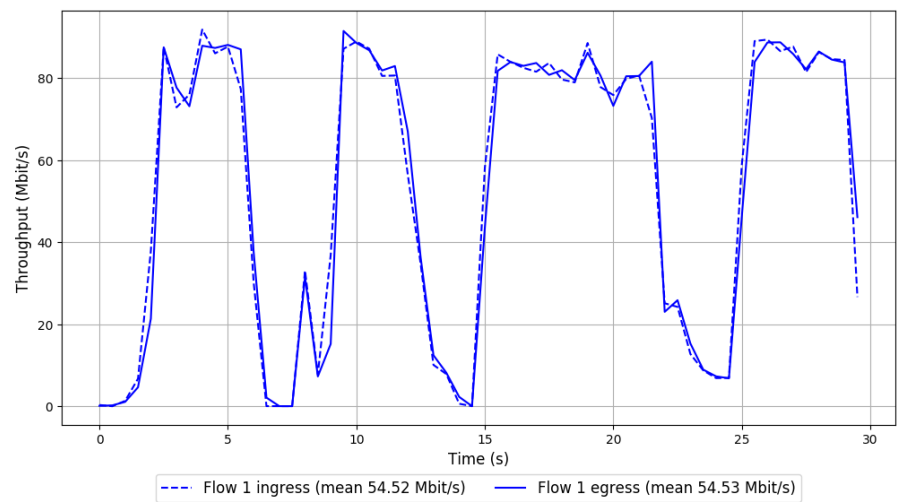
-- Flow 1:

Average throughput: 54.53 Mbit/s

95th percentile per-packet one-way delay: 111.643 ms

Loss rate: 0.00%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-03-27 00:22:56

End at: 2018-03-27 00:23:26

Below is generated by plot.py at 2018-03-27 02:37:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 49.95 Mbit/s

95th percentile per-packet one-way delay: 112.792 ms

Loss rate: 0.00%

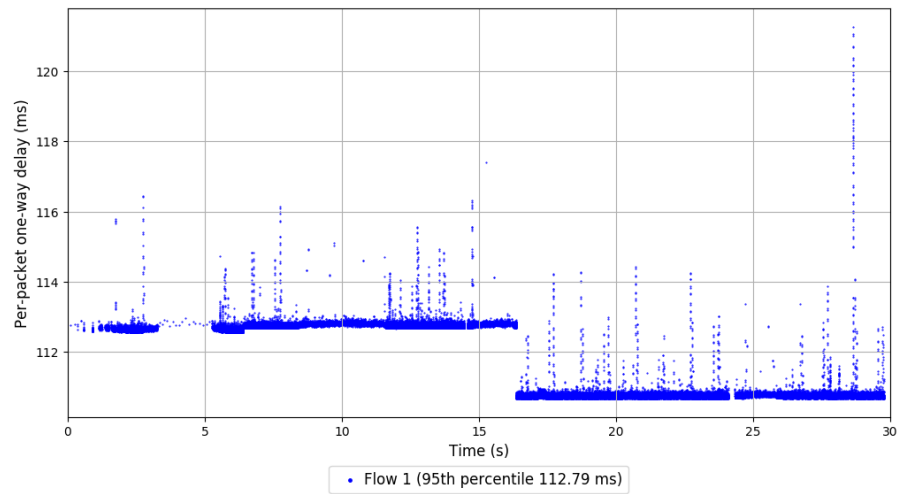
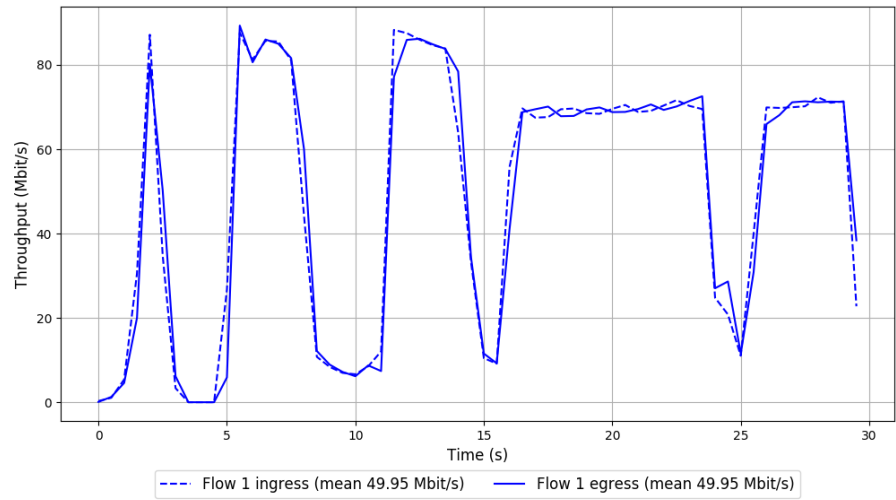
-- Flow 1:

Average throughput: 49.95 Mbit/s

95th percentile per-packet one-way delay: 112.792 ms

Loss rate: 0.00%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-03-27 00:38:25

End at: 2018-03-27 00:38:55

Below is generated by plot.py at 2018-03-27 02:37:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 59.83 Mbit/s

95th percentile per-packet one-way delay: 112.608 ms

Loss rate: 0.00%

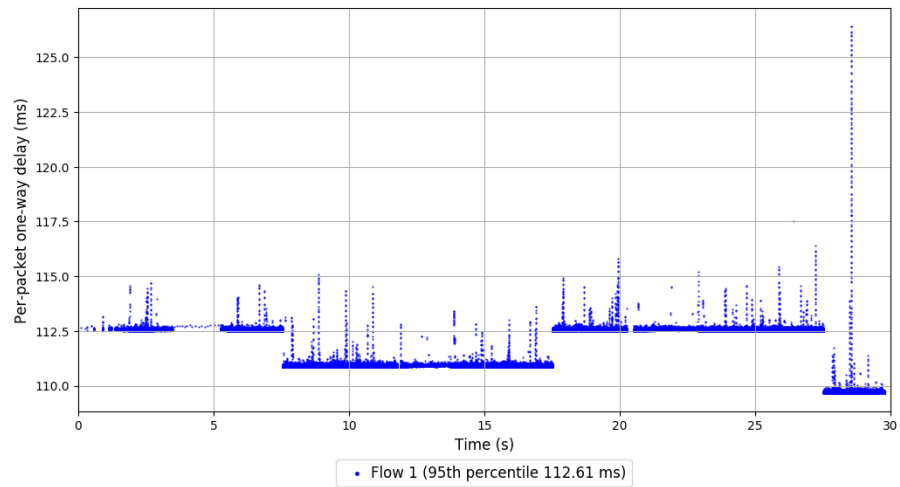
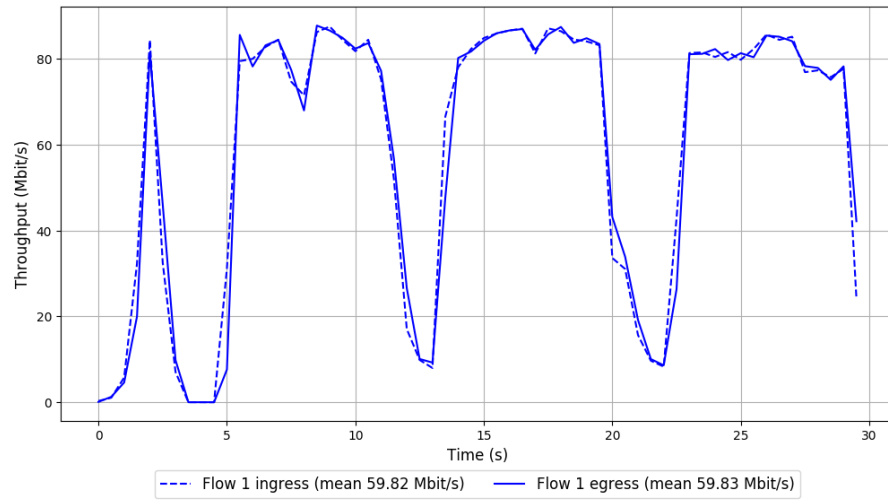
-- Flow 1:

Average throughput: 59.83 Mbit/s

95th percentile per-packet one-way delay: 112.608 ms

Loss rate: 0.00%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-03-27 00:53:58

End at: 2018-03-27 00:54:28

Below is generated by plot.py at 2018-03-27 02:37:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 56.32 Mbit/s

95th percentile per-packet one-way delay: 110.552 ms

Loss rate: 0.00%

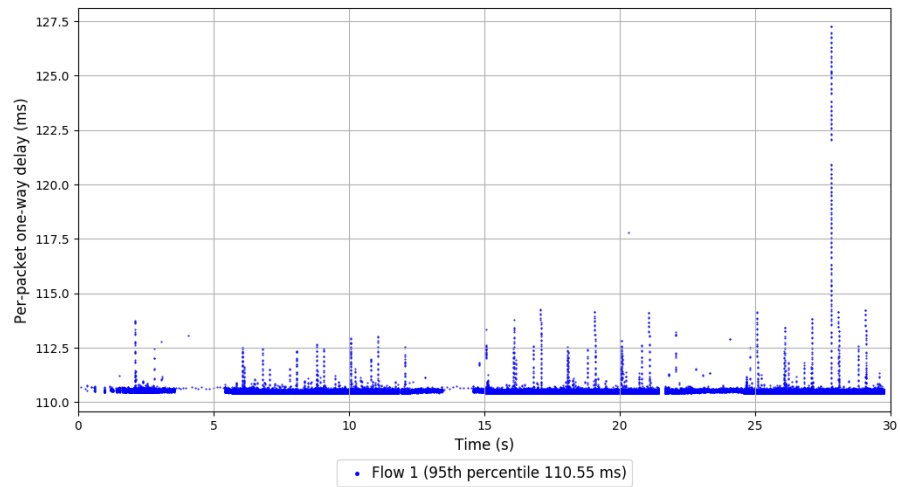
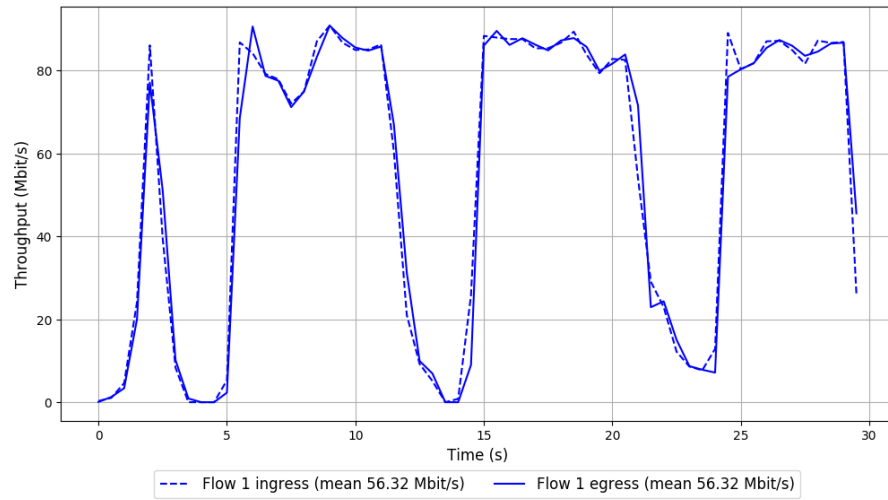
-- Flow 1:

Average throughput: 56.32 Mbit/s

95th percentile per-packet one-way delay: 110.552 ms

Loss rate: 0.00%

Run 10: Report of QUIC Cubic — Data Link

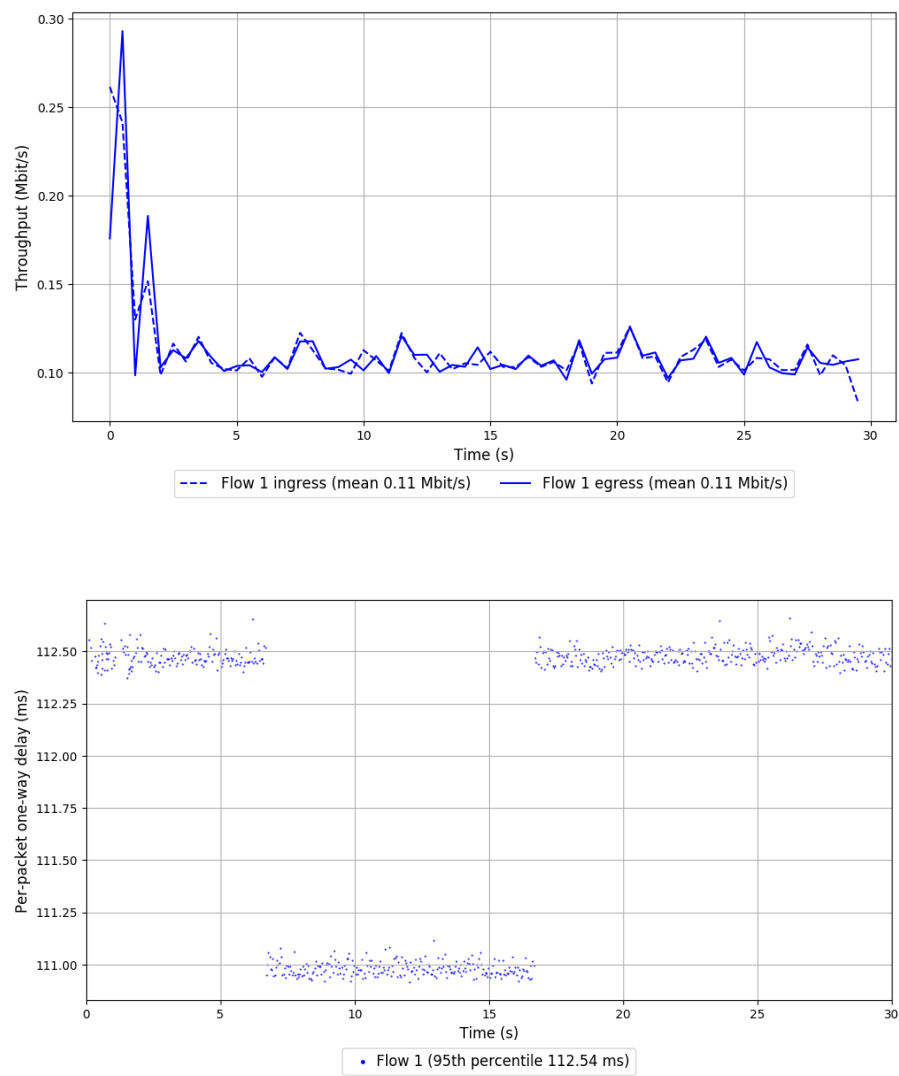


```
Run 1: Statistics of SCReAM

Start at: 2018-03-26 22:30:56
End at: 2018-03-26 22:31:26

# Below is generated by plot.py at 2018-03-27 02:37:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.11 Mbit/s
95th percentile per-packet one-way delay: 112.537 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.11 Mbit/s
95th percentile per-packet one-way delay: 112.537 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

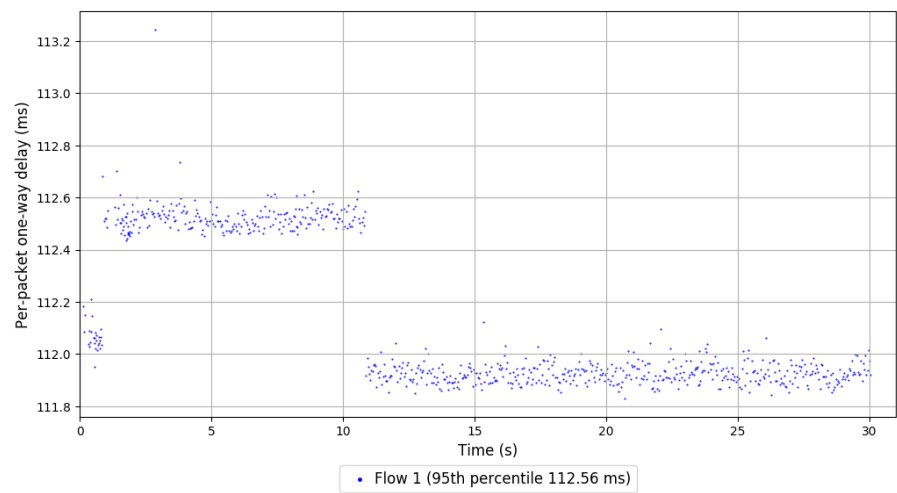
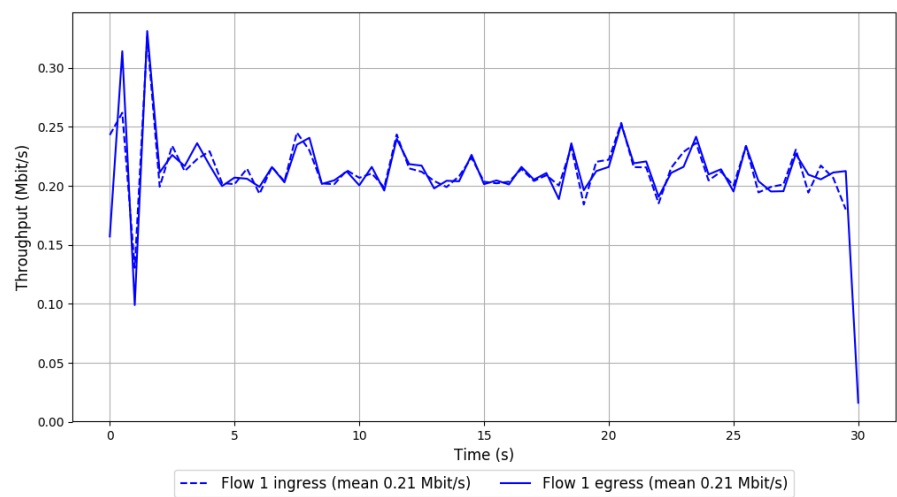


```
Run 2: Statistics of SCReAM

Start at: 2018-03-26 22:46:21
End at: 2018-03-26 22:46:51

# Below is generated by plot.py at 2018-03-27 02:37:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 112.558 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 112.558 ms
Loss rate: 0.00%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-03-26 23:02:06

End at: 2018-03-26 23:02:36

Below is generated by plot.py at 2018-03-27 02:37:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 110.227 ms

Loss rate: 0.00%

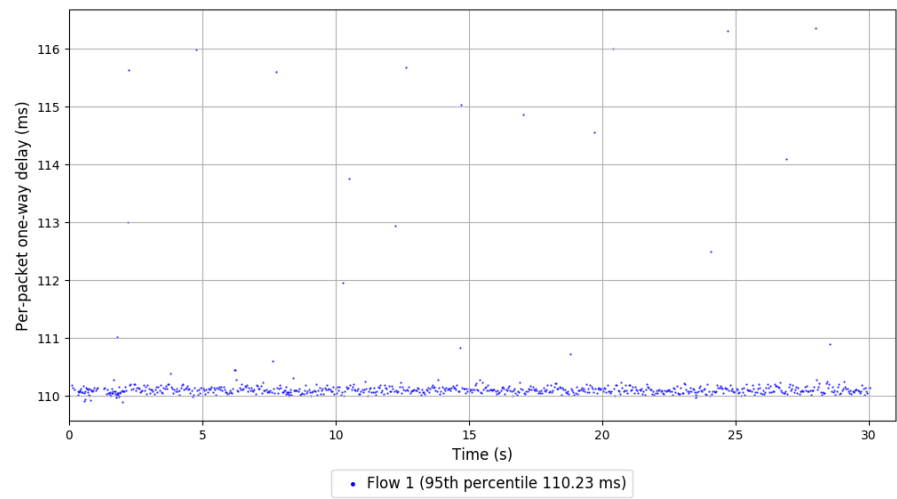
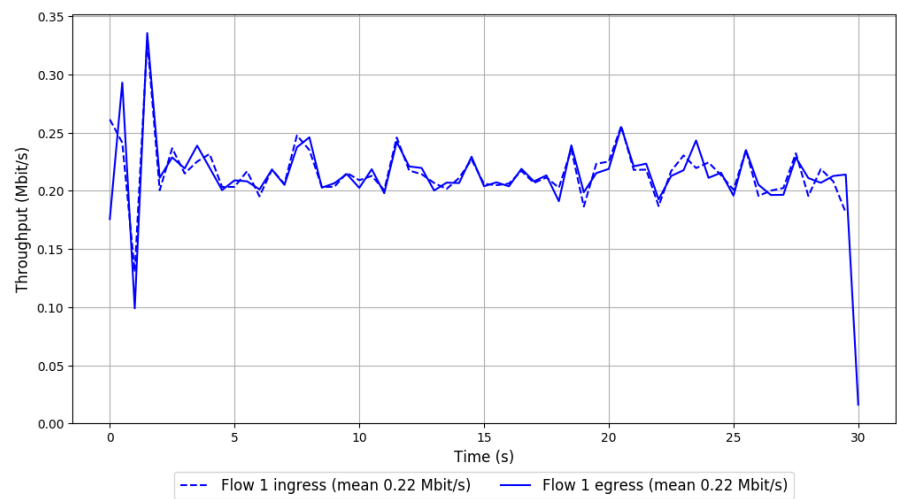
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 110.227 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2018-03-26 23:17:41

End at: 2018-03-26 23:18:11

Below is generated by plot.py at 2018-03-27 02:37:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 110.645 ms

Loss rate: 0.00%

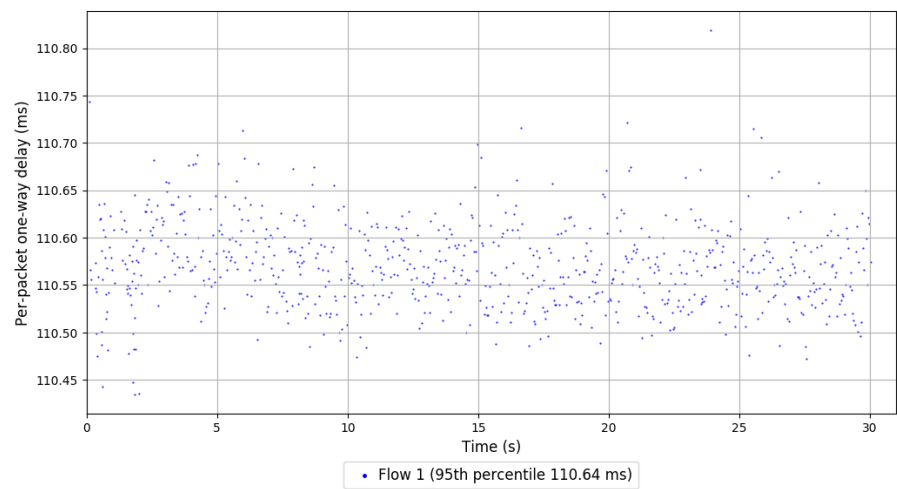
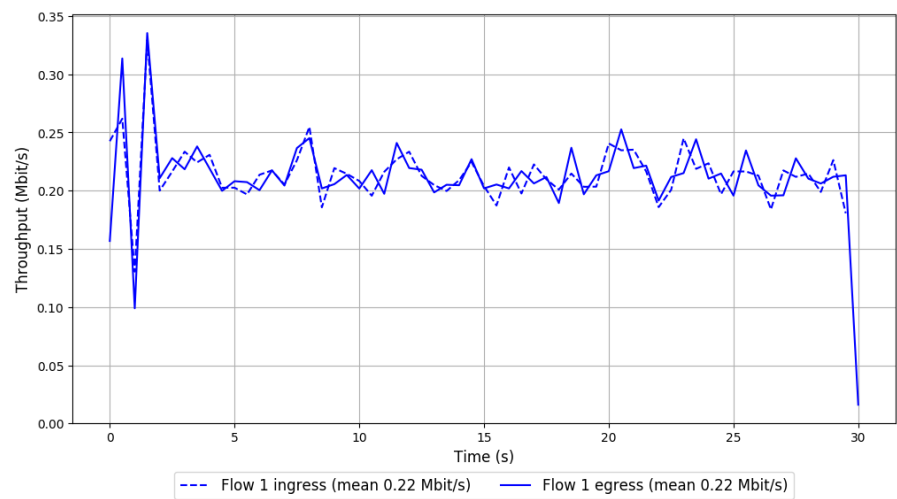
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 110.645 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-03-26 23:33:04

End at: 2018-03-26 23:33:34

Below is generated by plot.py at 2018-03-27 02:37:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 112.511 ms

Loss rate: 0.00%

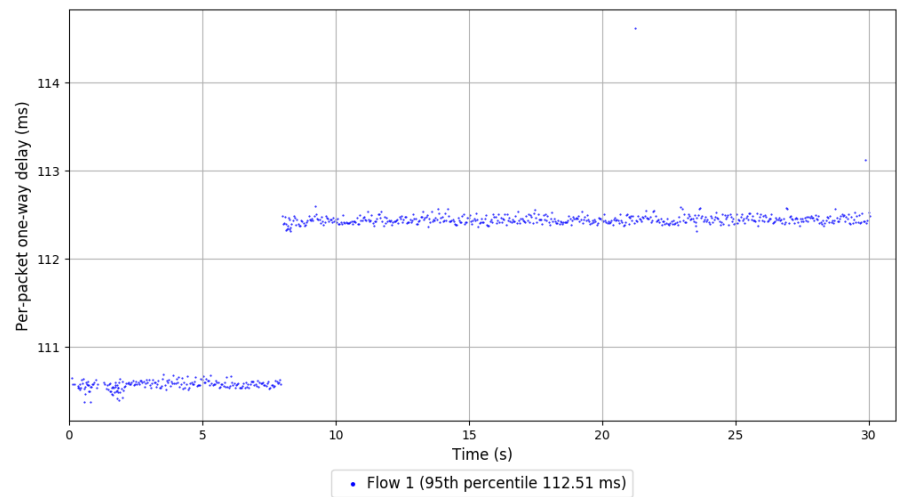
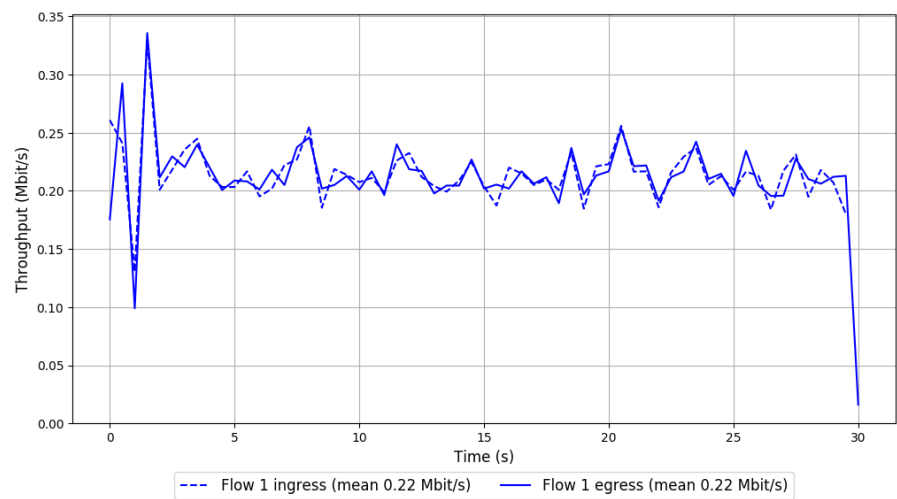
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 112.511 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-03-26 23:48:38

End at: 2018-03-26 23:49:08

Below is generated by plot.py at 2018-03-27 02:37:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 112.501 ms

Loss rate: 0.00%

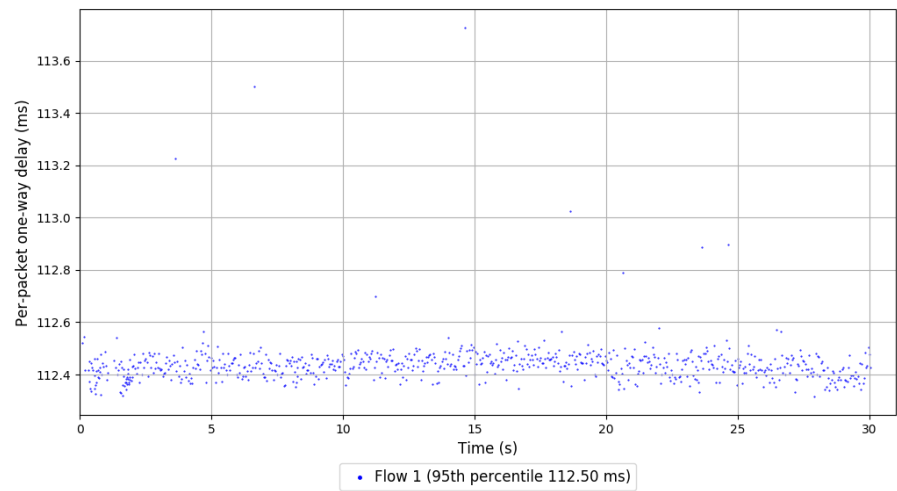
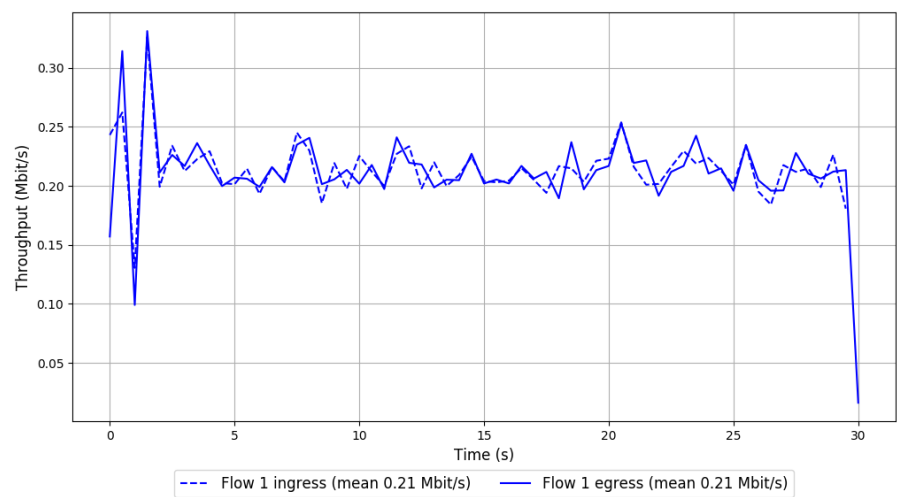
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 112.501 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2018-03-27 00:04:20

End at: 2018-03-27 00:04:50

Below is generated by plot.py at 2018-03-27 02:37:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

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

Loss rate: 0.00%

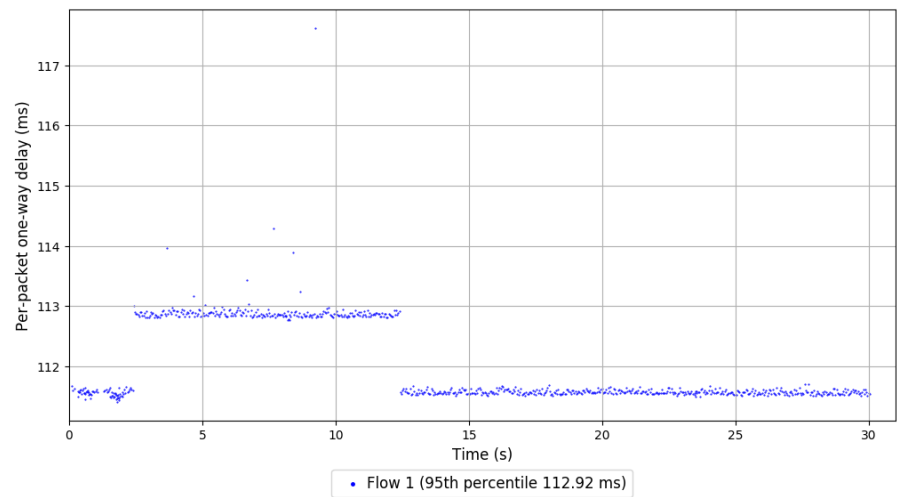
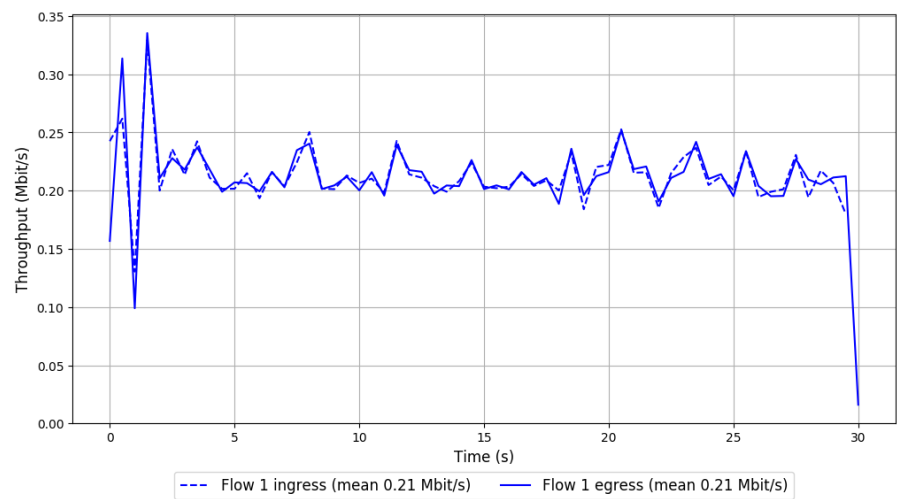
-- Flow 1:

Average throughput: 0.21 Mbit/s

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

Loss rate: 0.00%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-03-27 00:19:33

End at: 2018-03-27 00:20:03

Below is generated by plot.py at 2018-03-27 02:37:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 114.900 ms

Loss rate: 0.00%

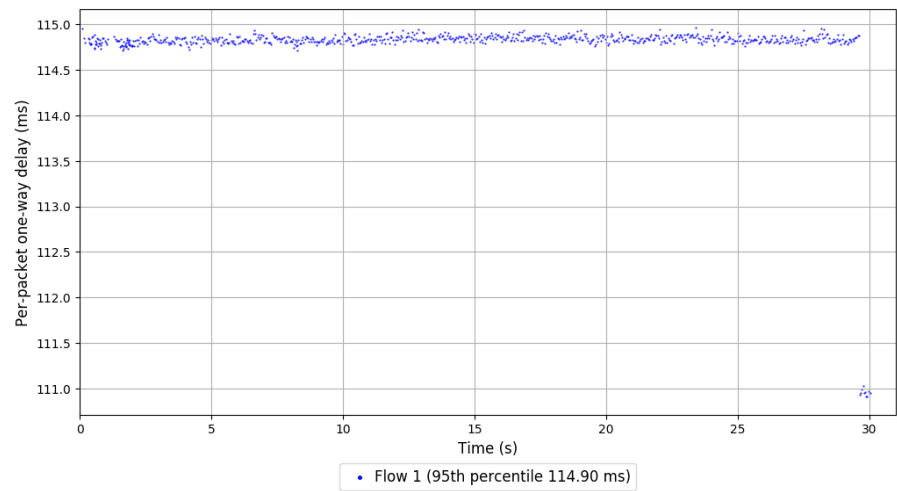
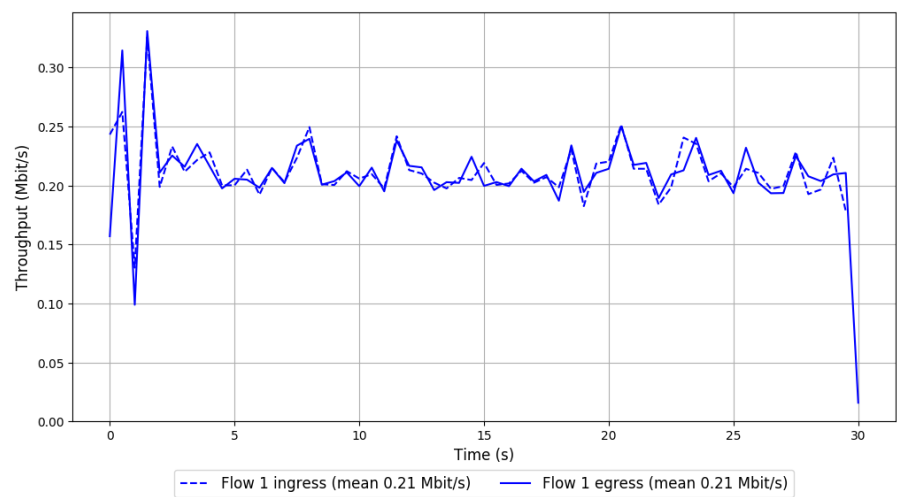
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 114.900 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-03-27 00:35:09

End at: 2018-03-27 00:35:39

Below is generated by plot.py at 2018-03-27 02:37:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 112.994 ms

Loss rate: 0.00%

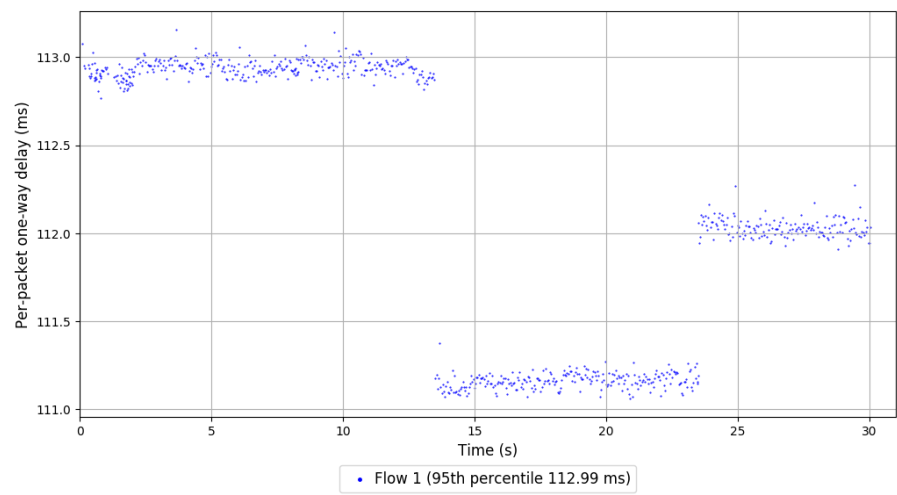
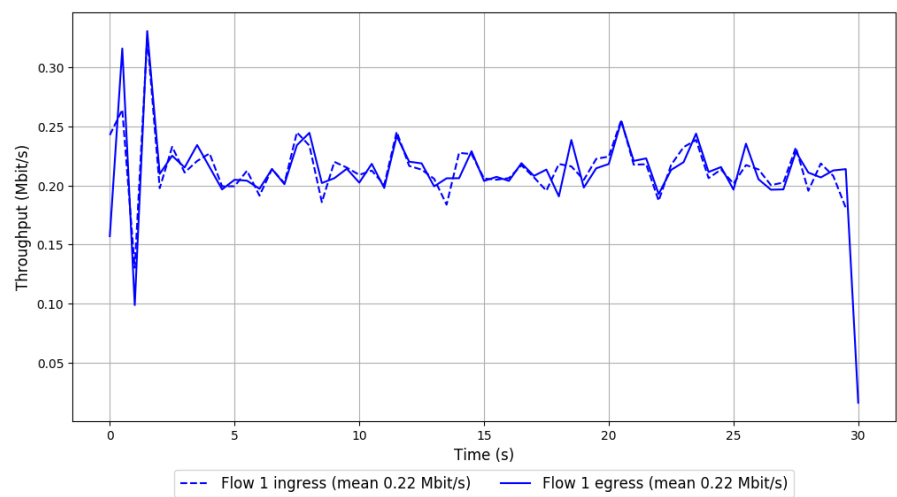
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 112.994 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-03-27 00:50:42

End at: 2018-03-27 00:51:12

Below is generated by plot.py at 2018-03-27 02:37:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.11 Mbit/s

95th percentile per-packet one-way delay: 112.914 ms

Loss rate: 0.00%

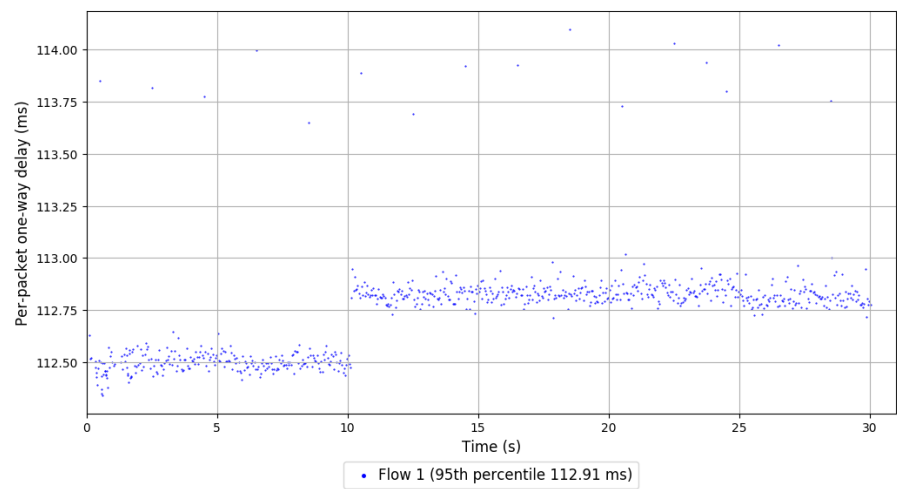
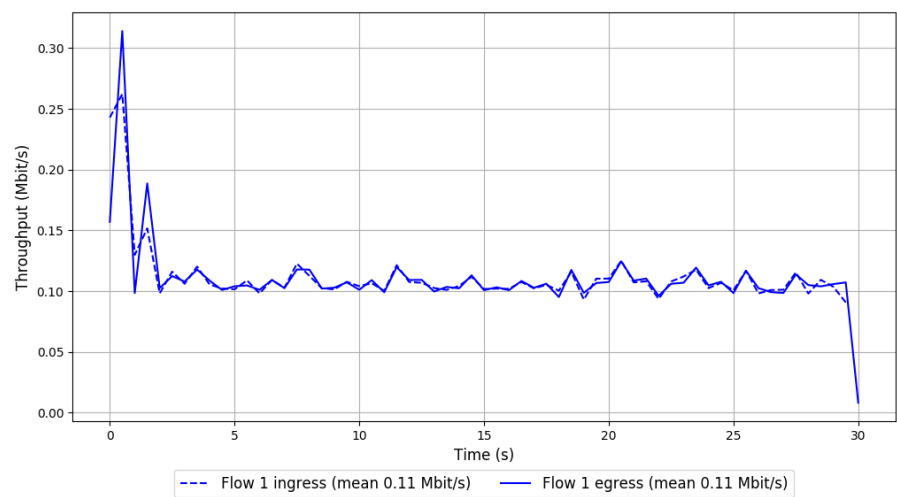
-- Flow 1:

Average throughput: 0.11 Mbit/s

95th percentile per-packet one-way delay: 112.914 ms

Loss rate: 0.00%

Run 10: Report of SReAM — Data Link

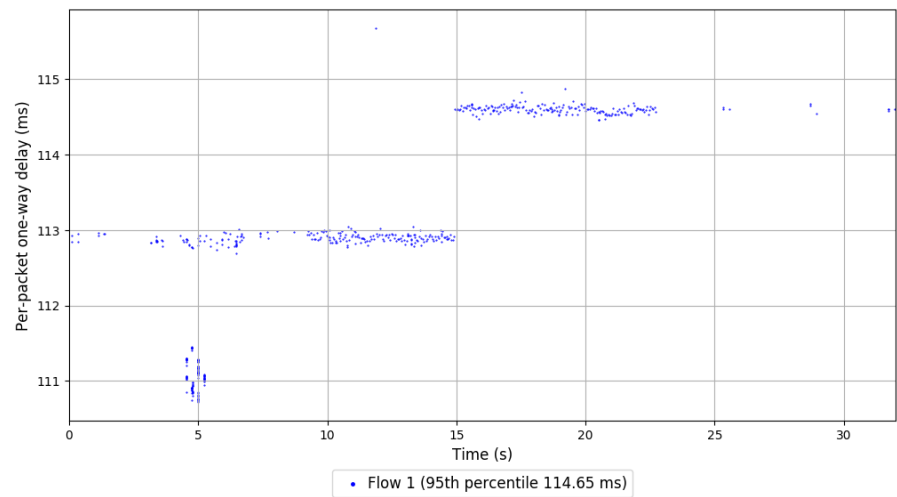
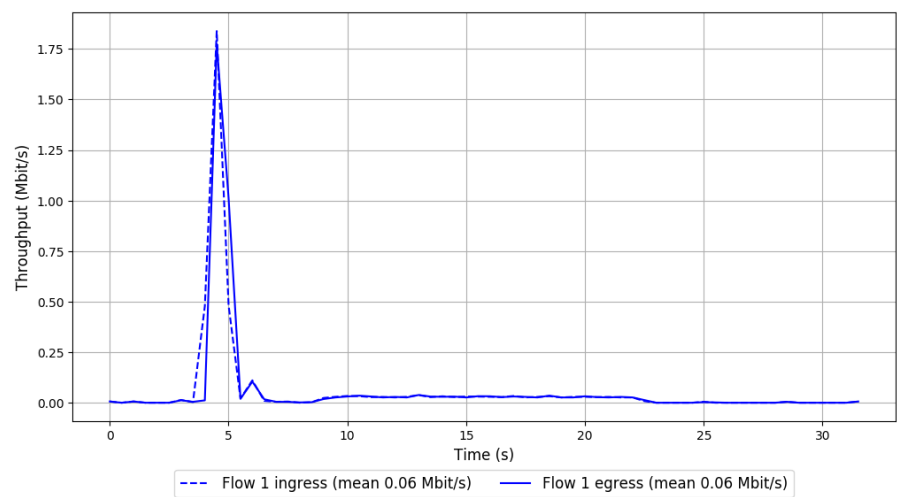


```
Run 1: Statistics of WebRTC media

Start at: 2018-03-26 22:33:50
End at: 2018-03-26 22:34:20

# Below is generated by plot.py at 2018-03-27 02:37:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 114.647 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 114.647 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link

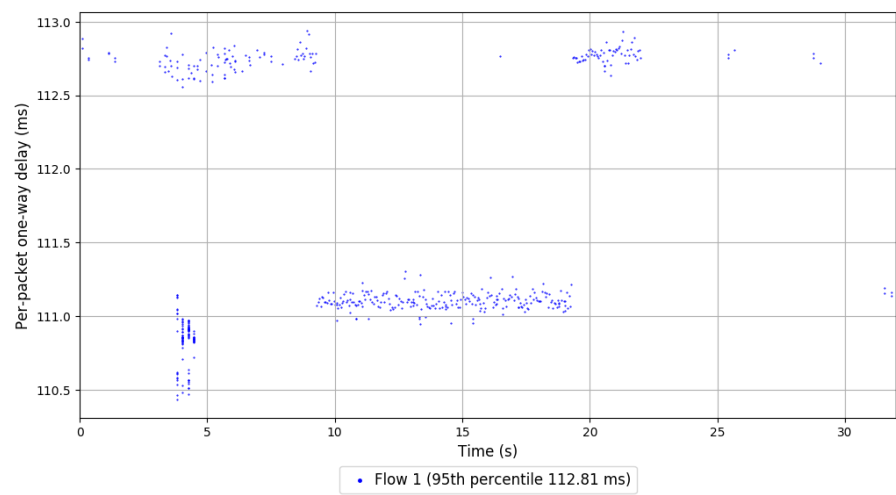
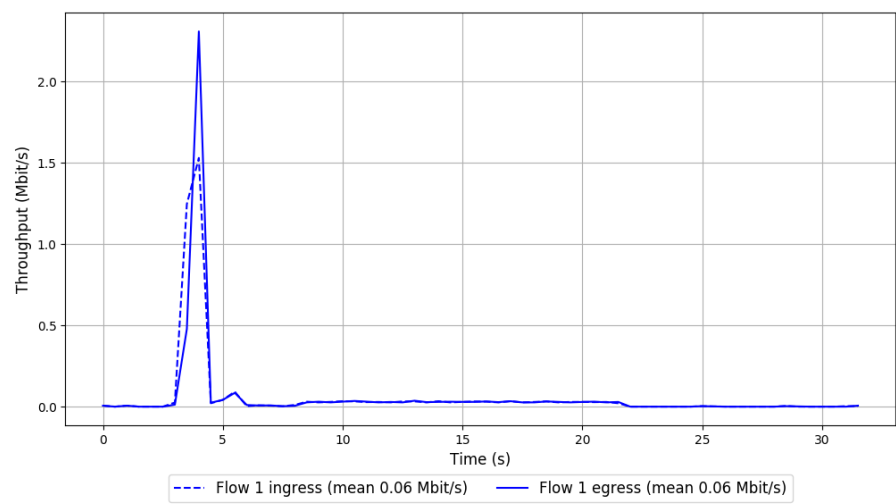


```
Run 2: Statistics of WebRTC media

Start at: 2018-03-26 22:49:16
End at: 2018-03-26 22:49:46

# Below is generated by plot.py at 2018-03-27 02:37:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 112.809 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 112.809 ms
Loss rate: 0.00%
```

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-03-26 23:04:52

End at: 2018-03-26 23:05:22

Below is generated by plot.py at 2018-03-27 02:37:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 112.852 ms

Loss rate: 0.00%

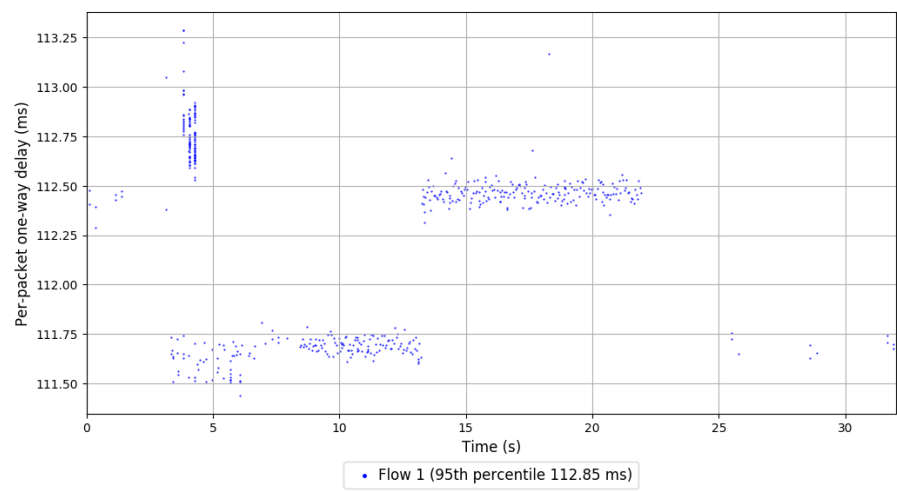
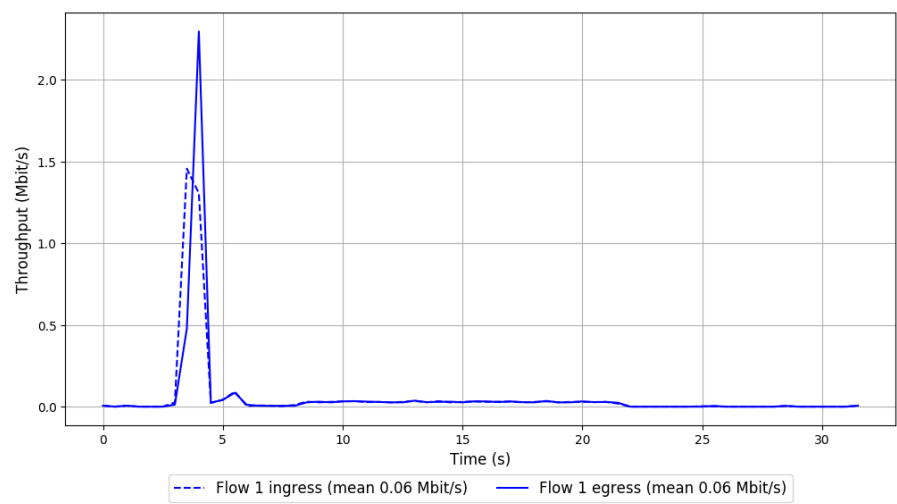
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 112.852 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-03-26 23:20:17

End at: 2018-03-26 23:20:47

Below is generated by plot.py at 2018-03-27 02:37:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 112.926 ms

Loss rate: 0.00%

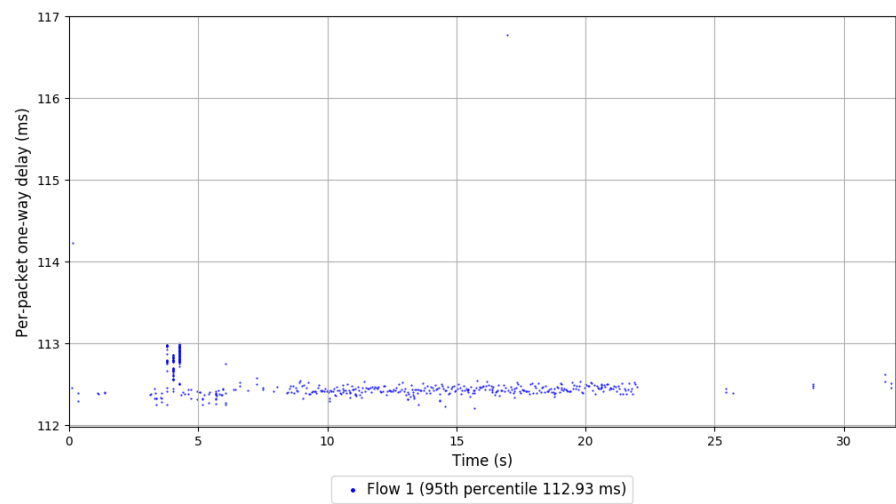
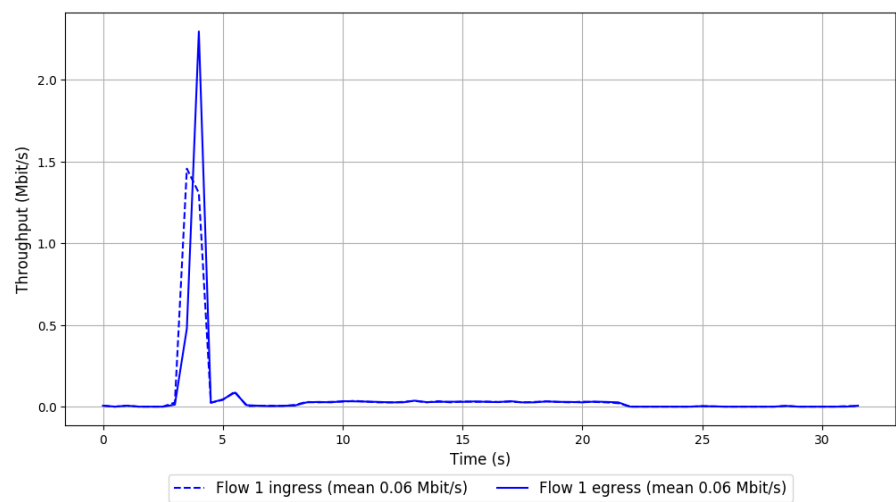
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 112.926 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-03-26 23:35:44

End at: 2018-03-26 23:36:14

Below is generated by plot.py at 2018-03-27 02:37:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 112.585 ms

Loss rate: 0.00%

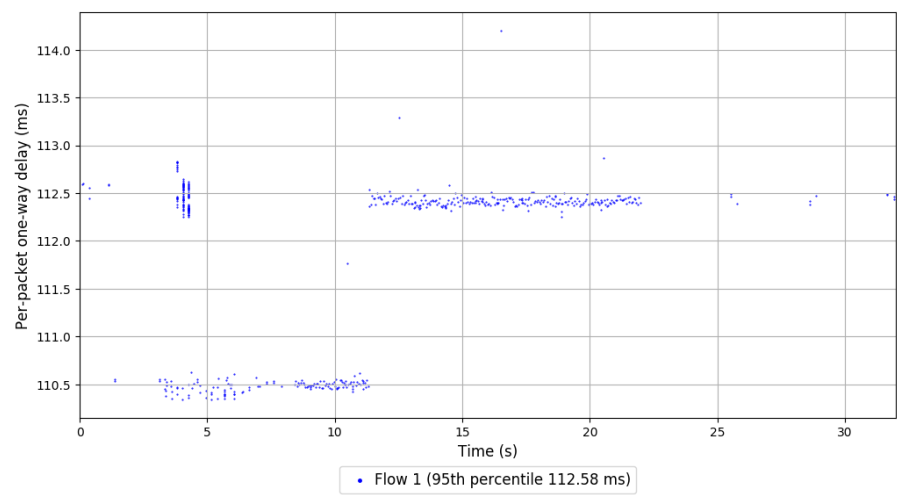
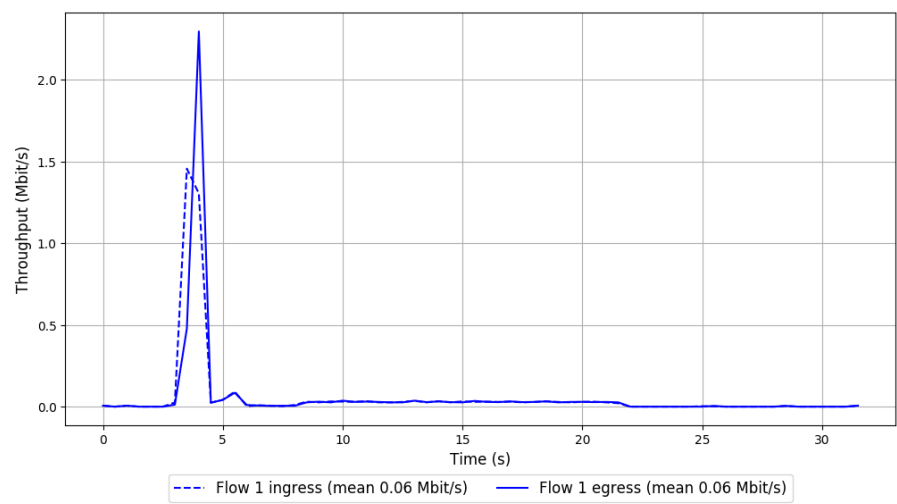
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 112.585 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-03-26 23:51:34

End at: 2018-03-26 23:52:04

Below is generated by plot.py at 2018-03-27 02:37:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 112.603 ms

Loss rate: 0.00%

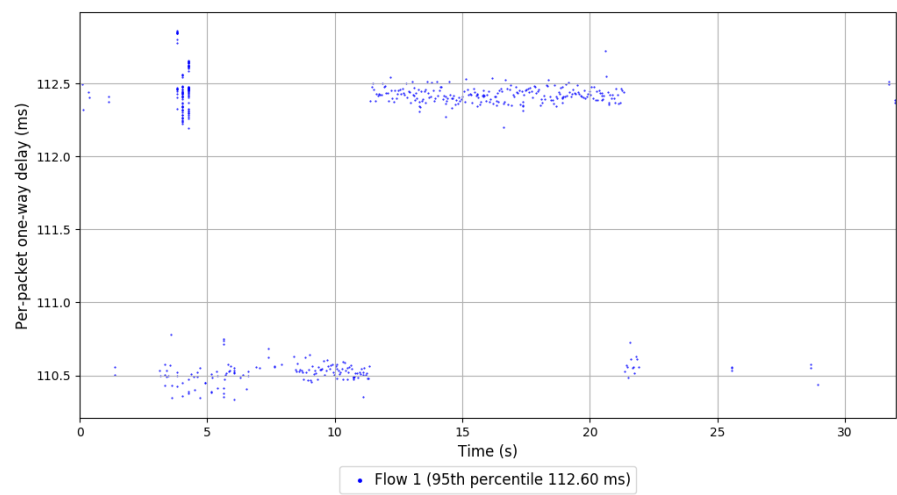
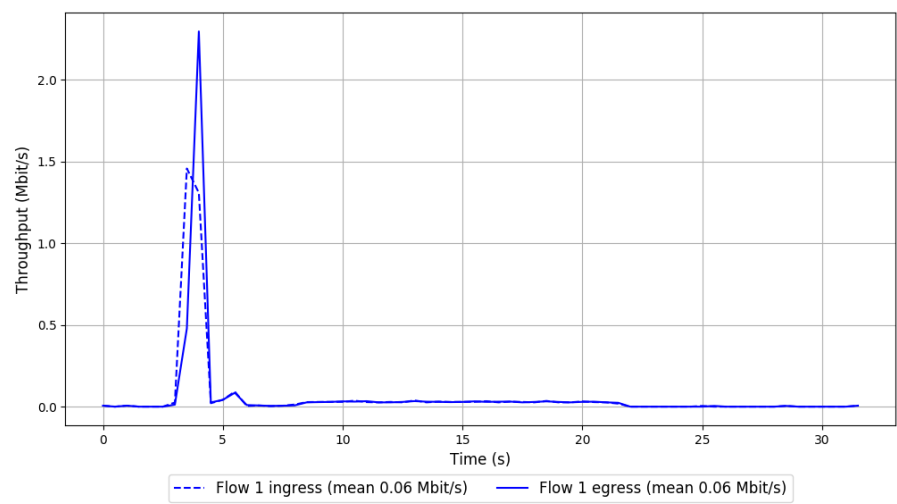
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 112.603 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-03-27 00:06:57

End at: 2018-03-27 00:07:27

Below is generated by plot.py at 2018-03-27 02:37:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 115.194 ms

Loss rate: 0.00%

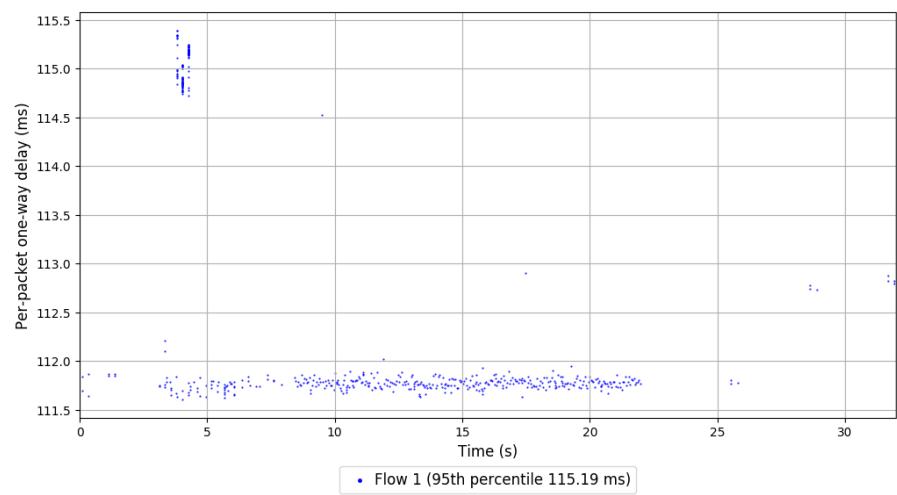
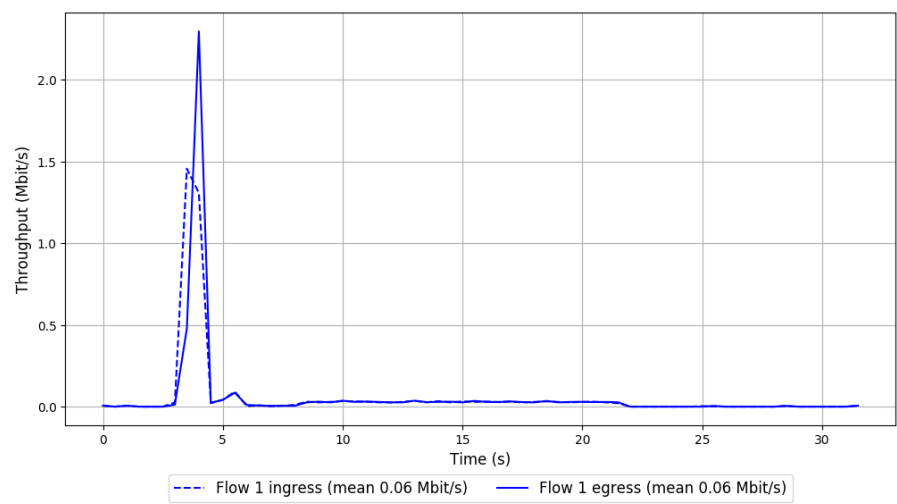
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 115.194 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-03-27 00:22:16

End at: 2018-03-27 00:22:46

Below is generated by plot.py at 2018-03-27 02:37:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.07 Mbit/s

95th percentile per-packet one-way delay: 113.000 ms

Loss rate: 0.00%

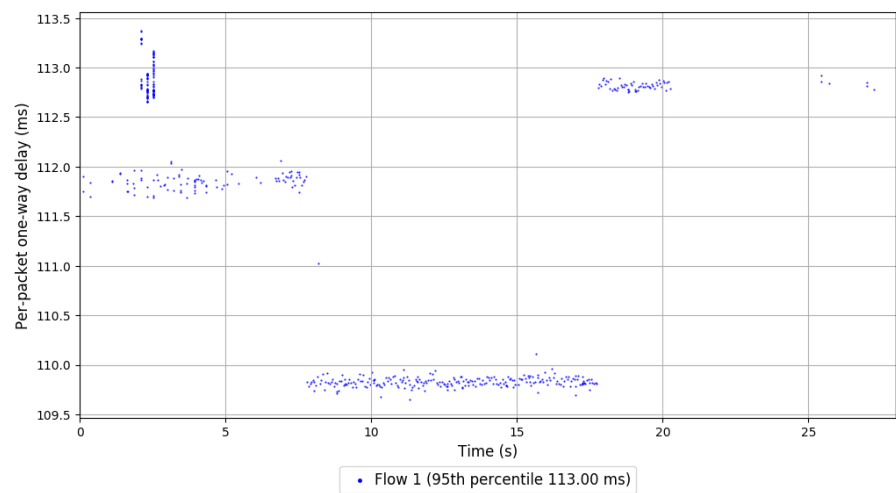
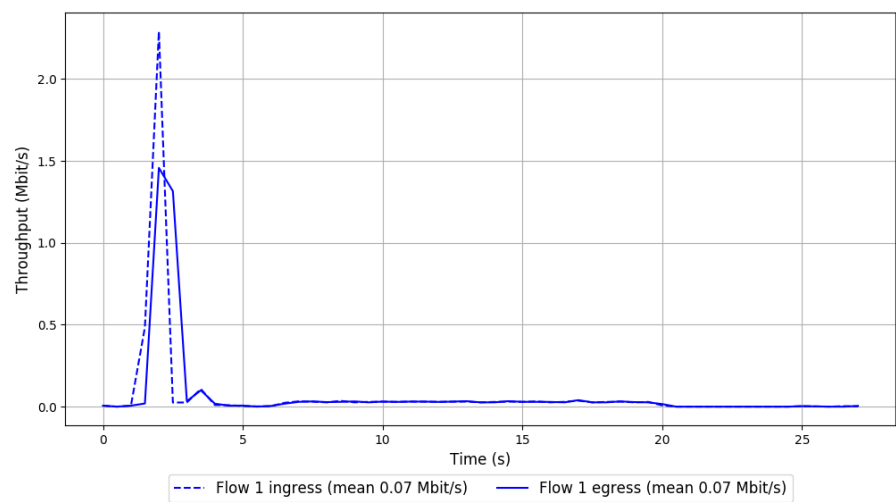
-- Flow 1:

Average throughput: 0.07 Mbit/s

95th percentile per-packet one-way delay: 113.000 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-03-27 00:37:44

End at: 2018-03-27 00:38:14

Below is generated by plot.py at 2018-03-27 02:37:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 114.983 ms

Loss rate: 0.00%

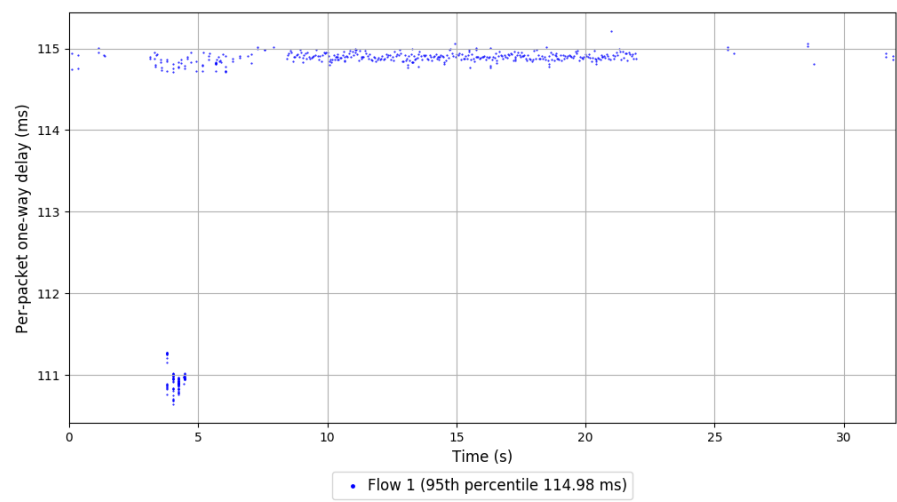
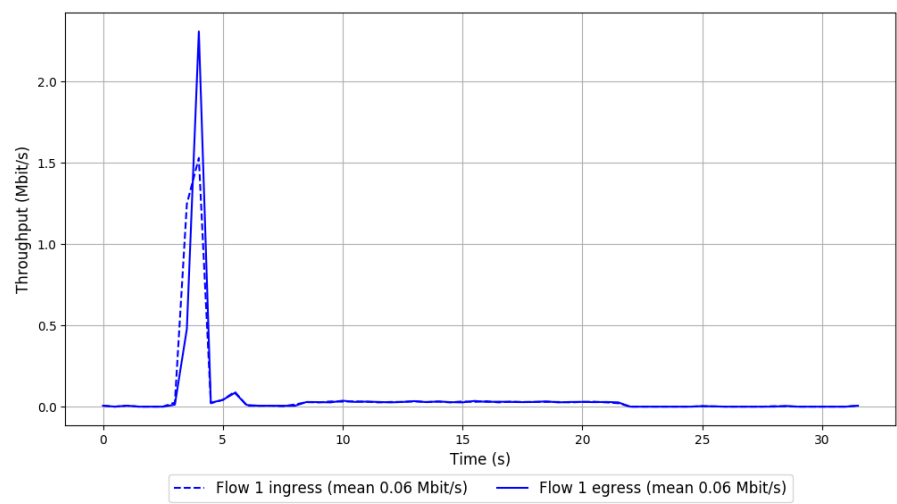
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 114.983 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-03-27 00:53:18

End at: 2018-03-27 00:53:48

Below is generated by plot.py at 2018-03-27 02:37:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 115.047 ms

Loss rate: 0.00%

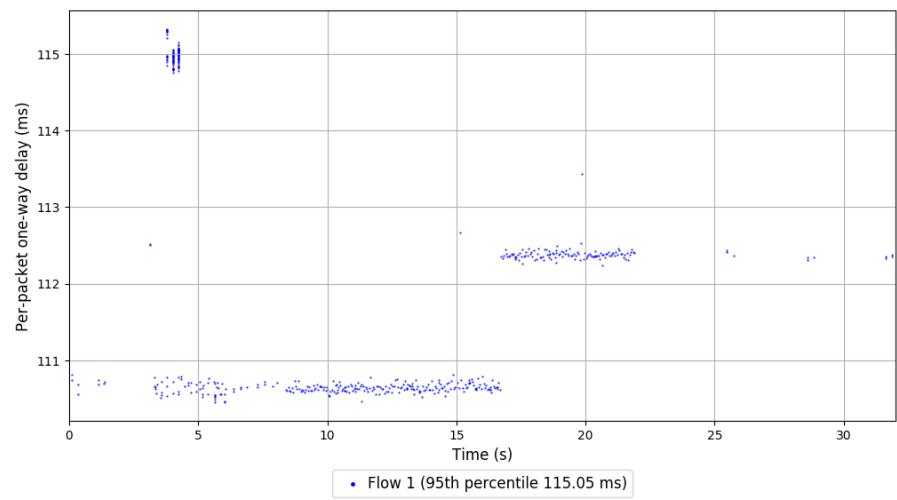
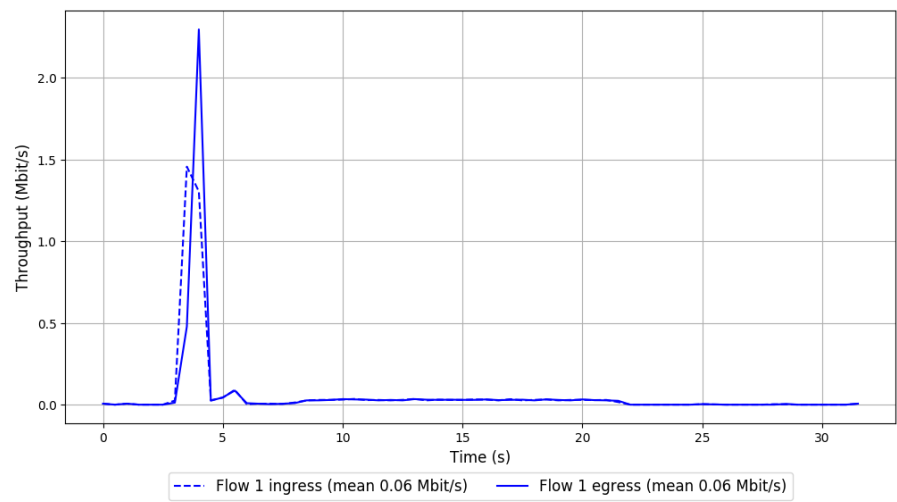
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 115.047 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2018-03-26 22:24:33

End at: 2018-03-26 22:25:03

Below is generated by plot.py at 2018-03-27 02:37:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.92 Mbit/s

95th percentile per-packet one-way delay: 111.243 ms

Loss rate: 0.00%

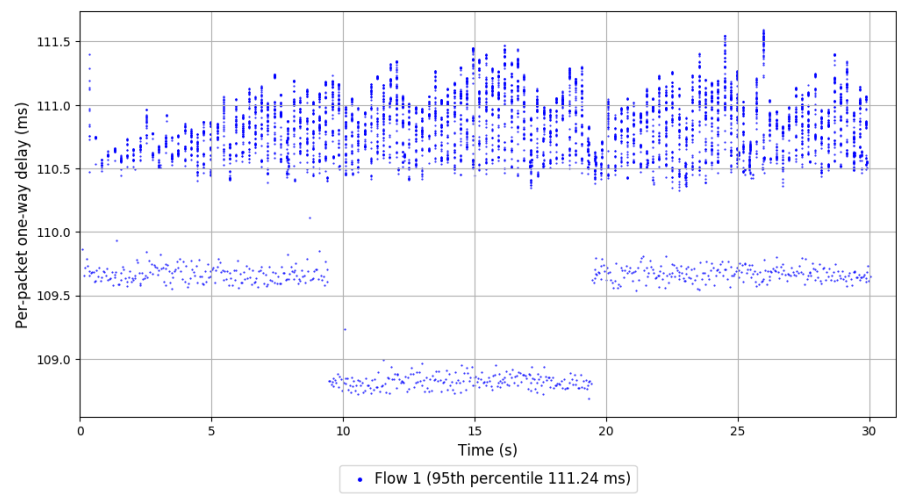
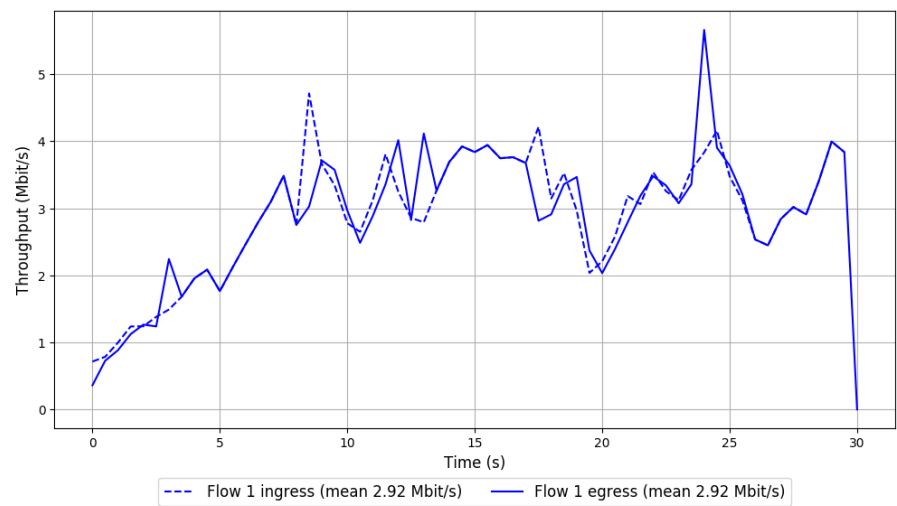
-- Flow 1:

Average throughput: 2.92 Mbit/s

95th percentile per-packet one-way delay: 111.243 ms

Loss rate: 0.00%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-03-26 22:40:13

End at: 2018-03-26 22:40:43

Below is generated by plot.py at 2018-03-27 02:37:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.13 Mbit/s

95th percentile per-packet one-way delay: 112.268 ms

Loss rate: 0.00%

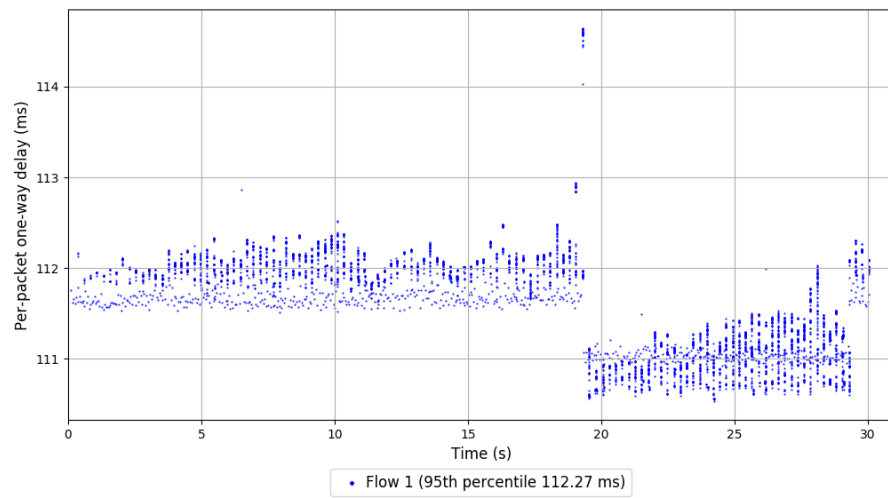
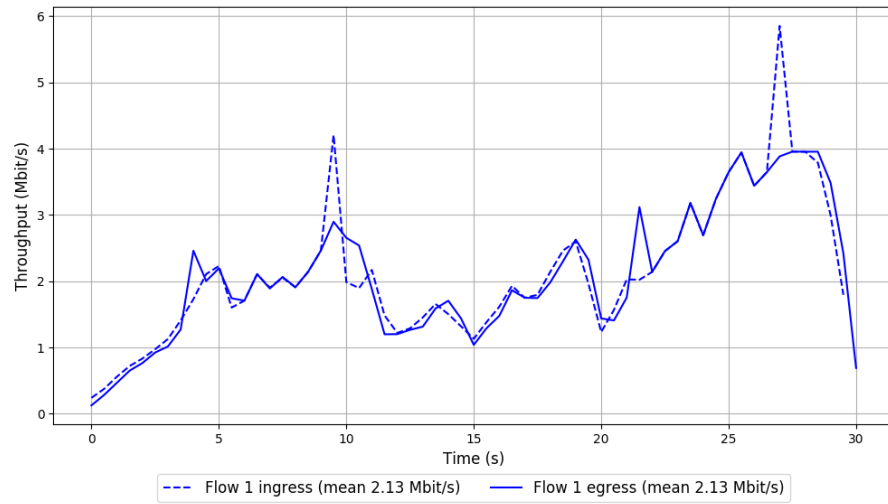
-- Flow 1:

Average throughput: 2.13 Mbit/s

95th percentile per-packet one-way delay: 112.268 ms

Loss rate: 0.00%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-03-26 22:55:43

End at: 2018-03-26 22:56:13

Below is generated by plot.py at 2018-03-27 02:37:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.17 Mbit/s

95th percentile per-packet one-way delay: 112.628 ms

Loss rate: 0.00%

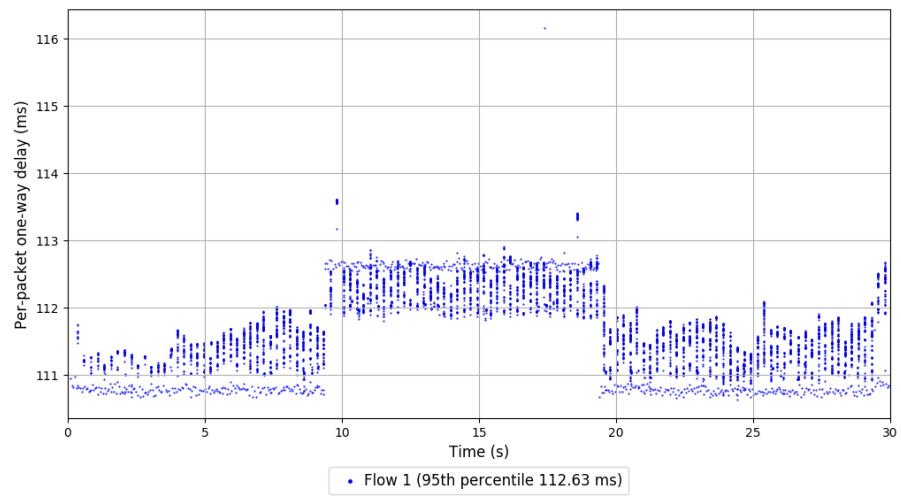
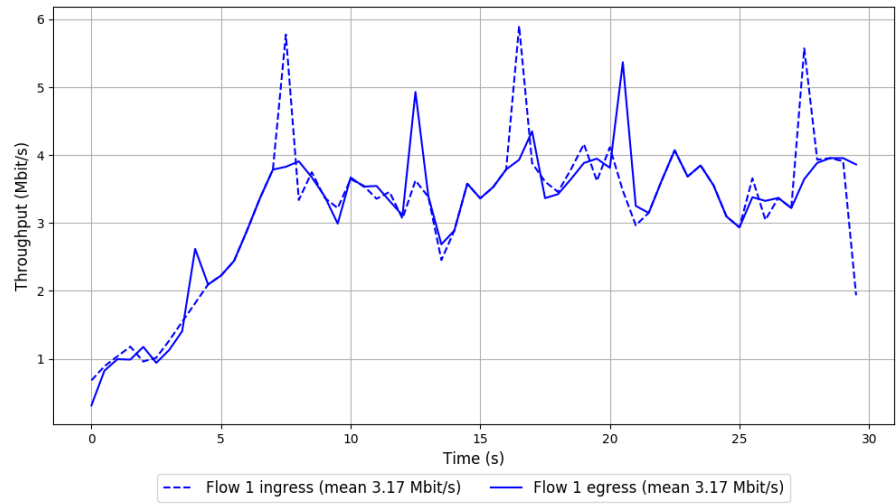
-- Flow 1:

Average throughput: 3.17 Mbit/s

95th percentile per-packet one-way delay: 112.628 ms

Loss rate: 0.00%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-03-26 23:11:24

End at: 2018-03-26 23:11:55

Below is generated by plot.py at 2018-03-27 02:37:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.30 Mbit/s

95th percentile per-packet one-way delay: 113.027 ms

Loss rate: 0.00%

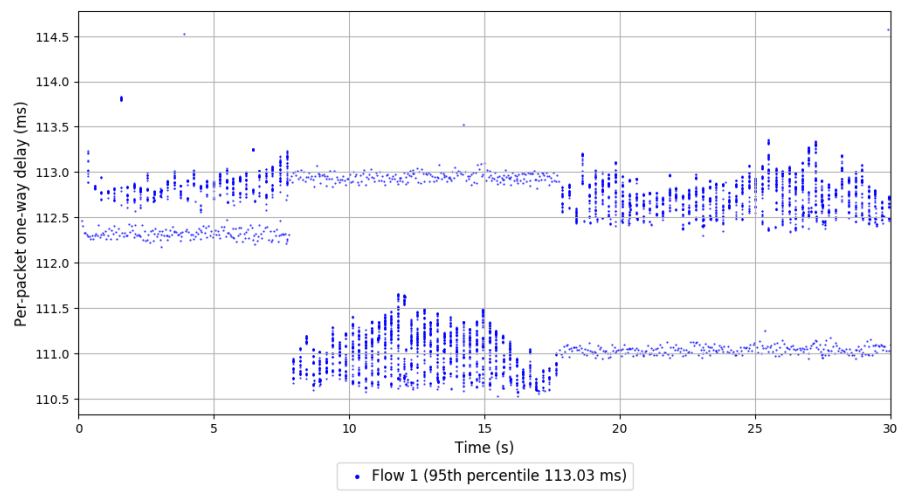
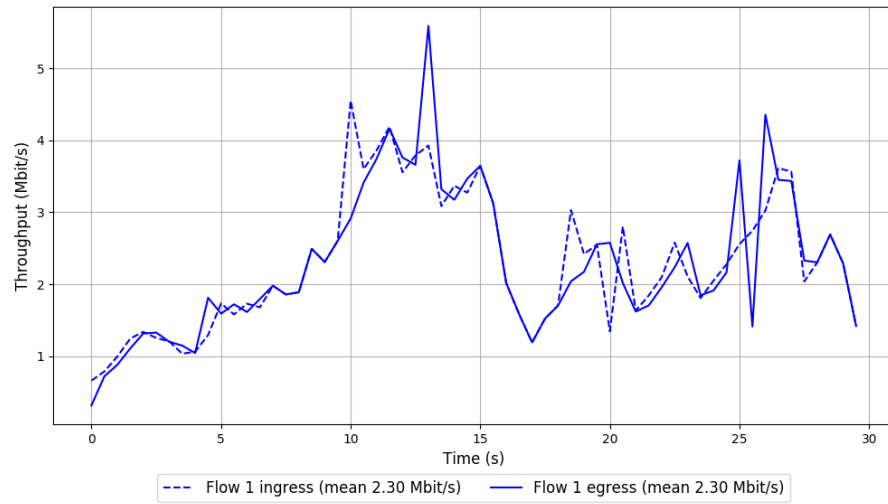
-- Flow 1:

Average throughput: 2.30 Mbit/s

95th percentile per-packet one-way delay: 113.027 ms

Loss rate: 0.00%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-03-26 23:26:46

End at: 2018-03-26 23:27:16

Below is generated by plot.py at 2018-03-27 02:37:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.46 Mbit/s

95th percentile per-packet one-way delay: 113.381 ms

Loss rate: 0.00%

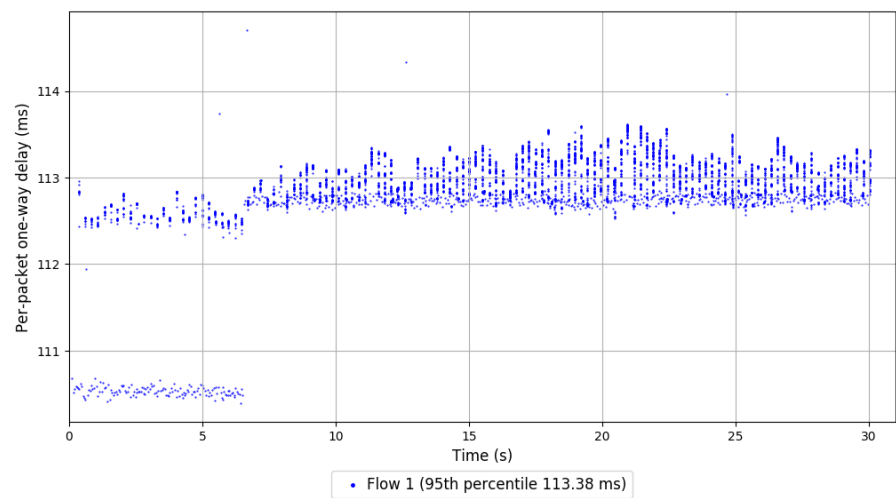
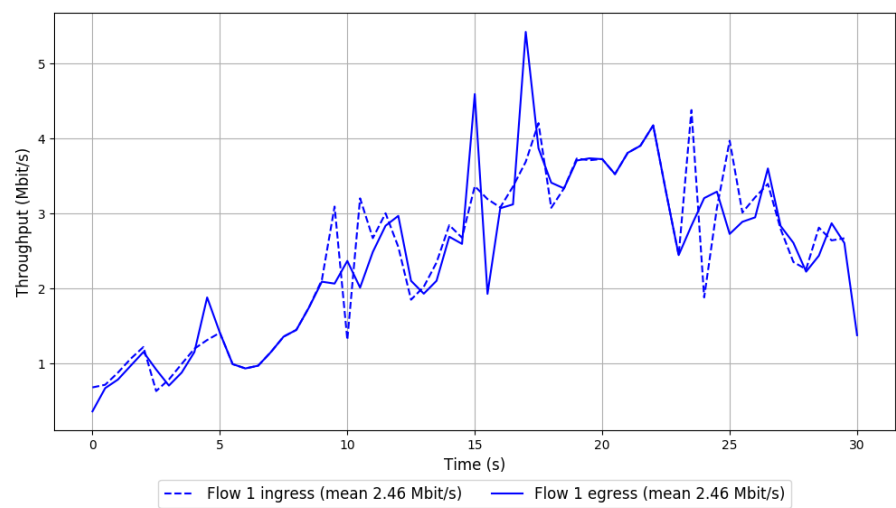
-- Flow 1:

Average throughput: 2.46 Mbit/s

95th percentile per-packet one-way delay: 113.381 ms

Loss rate: 0.00%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-03-26 23:42:14

End at: 2018-03-26 23:42:44

Below is generated by plot.py at 2018-03-27 02:37:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.46 Mbit/s

95th percentile per-packet one-way delay: 113.451 ms

Loss rate: 0.00%

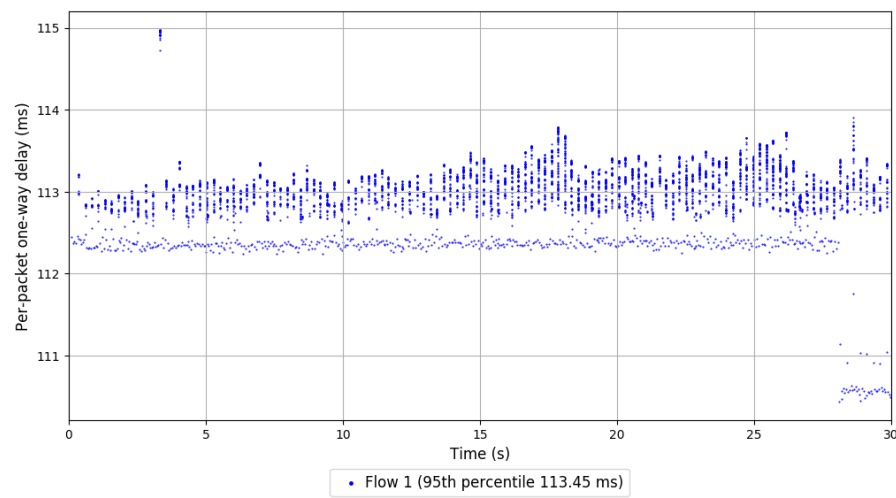
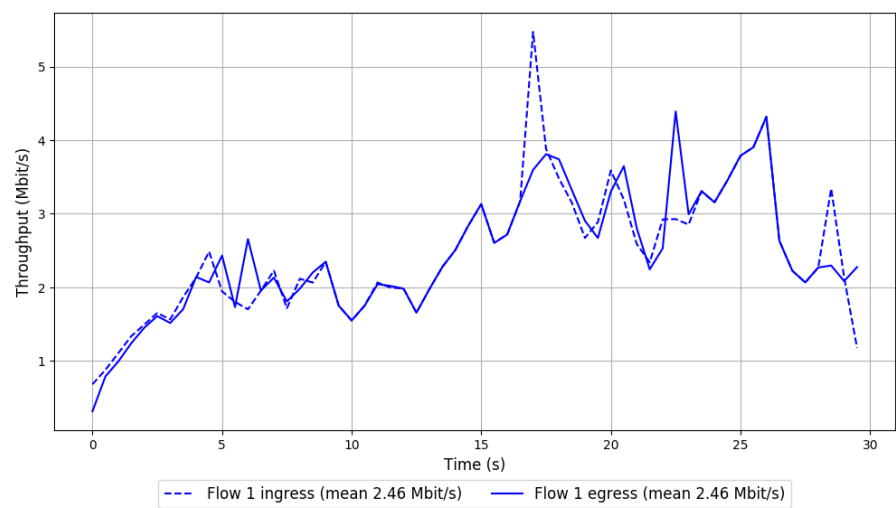
-- Flow 1:

Average throughput: 2.46 Mbit/s

95th percentile per-packet one-way delay: 113.451 ms

Loss rate: 0.00%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-03-26 23:58:04

End at: 2018-03-26 23:58:34

Below is generated by plot.py at 2018-03-27 02:37:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.79 Mbit/s

95th percentile per-packet one-way delay: 113.468 ms

Loss rate: 0.00%

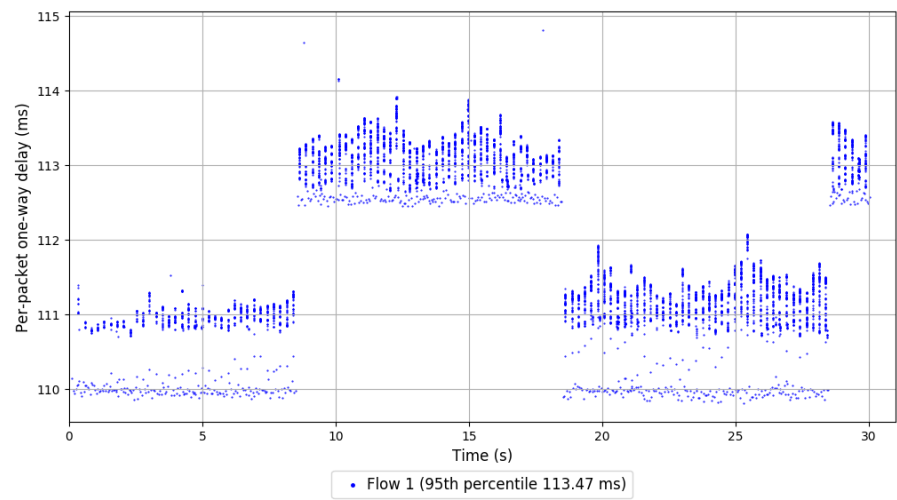
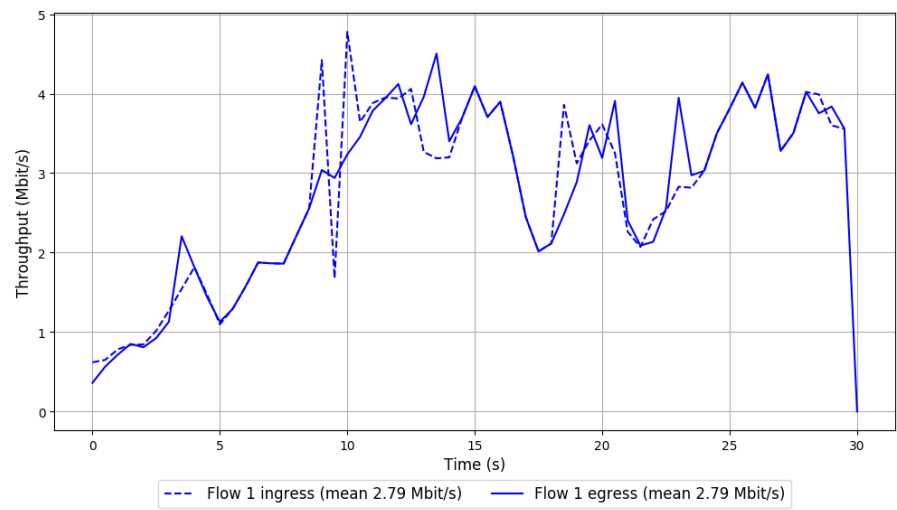
-- Flow 1:

Average throughput: 2.79 Mbit/s

95th percentile per-packet one-way delay: 113.468 ms

Loss rate: 0.00%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-03-27 00:13:26

End at: 2018-03-27 00:13:56

Below is generated by plot.py at 2018-03-27 02:37:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: 113.560 ms

Loss rate: 0.00%

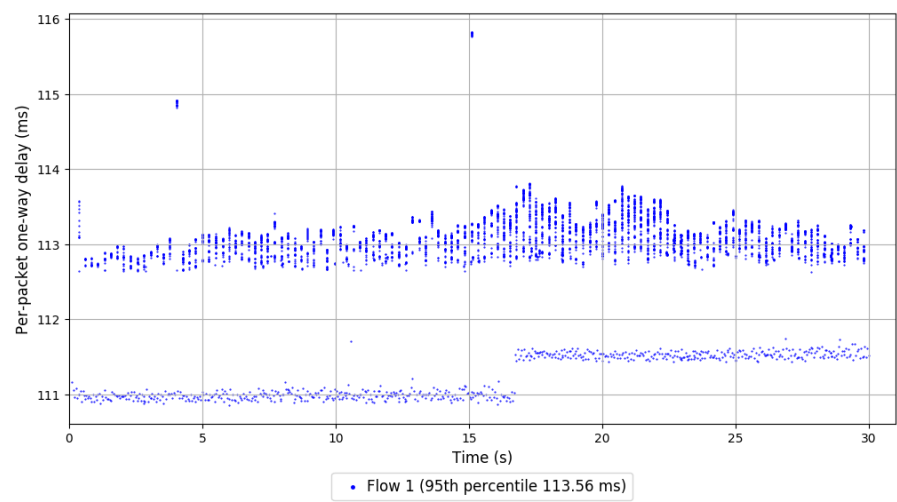
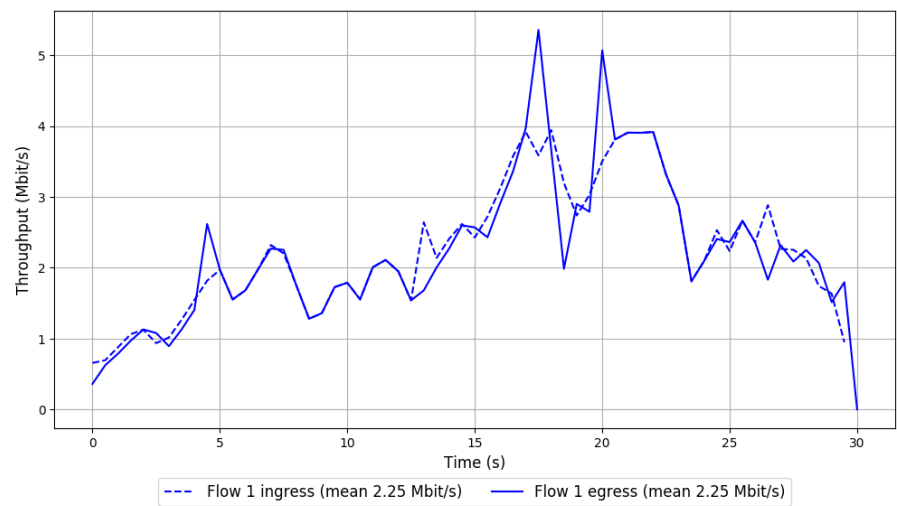
-- Flow 1:

Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: 113.560 ms

Loss rate: 0.00%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-03-27 00:28:43

End at: 2018-03-27 00:29:13

Below is generated by plot.py at 2018-03-27 02:37:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.62 Mbit/s

95th percentile per-packet one-way delay: 113.602 ms

Loss rate: 0.00%

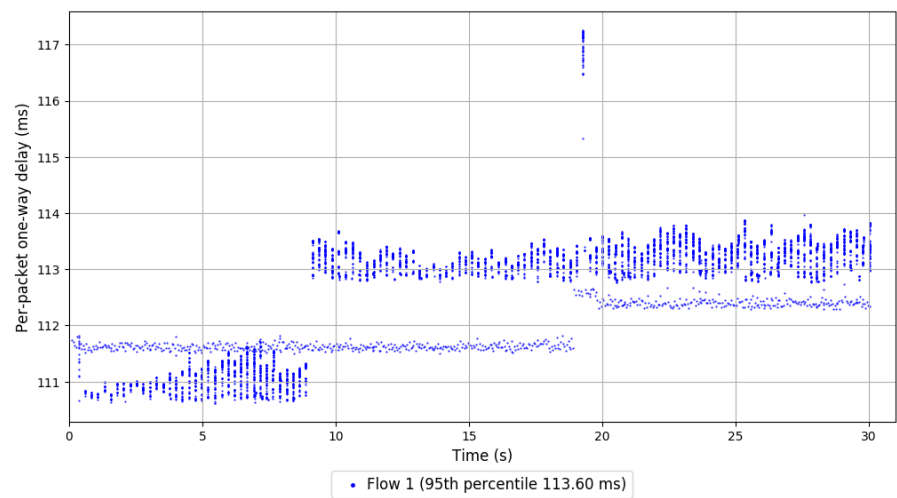
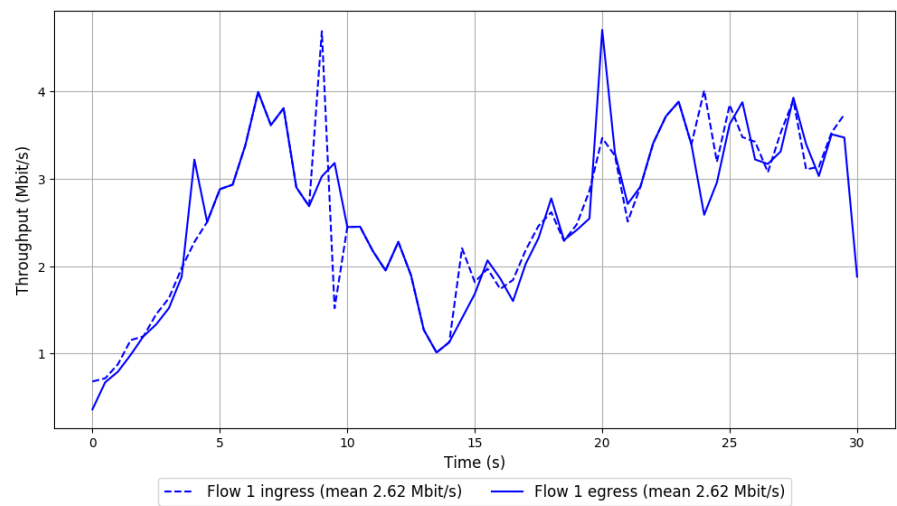
-- Flow 1:

Average throughput: 2.62 Mbit/s

95th percentile per-packet one-way delay: 113.602 ms

Loss rate: 0.00%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-03-27 00:44:18

End at: 2018-03-27 00:44:48

Below is generated by plot.py at 2018-03-27 02:37:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.21 Mbit/s

95th percentile per-packet one-way delay: 115.576 ms

Loss rate: 0.00%

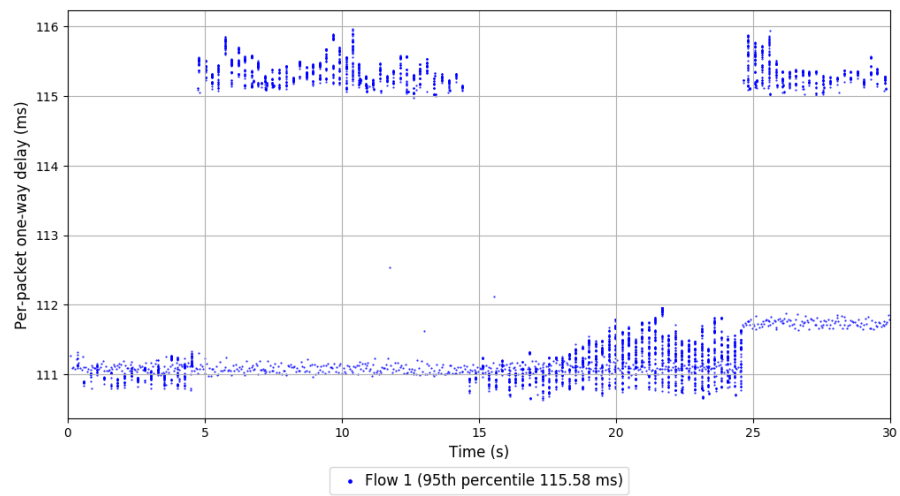
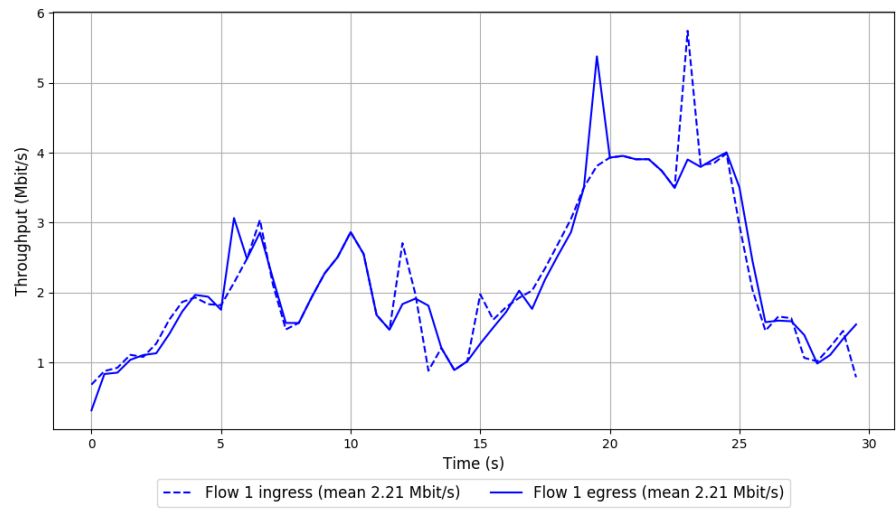
-- Flow 1:

Average throughput: 2.21 Mbit/s

95th percentile per-packet one-way delay: 115.576 ms

Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

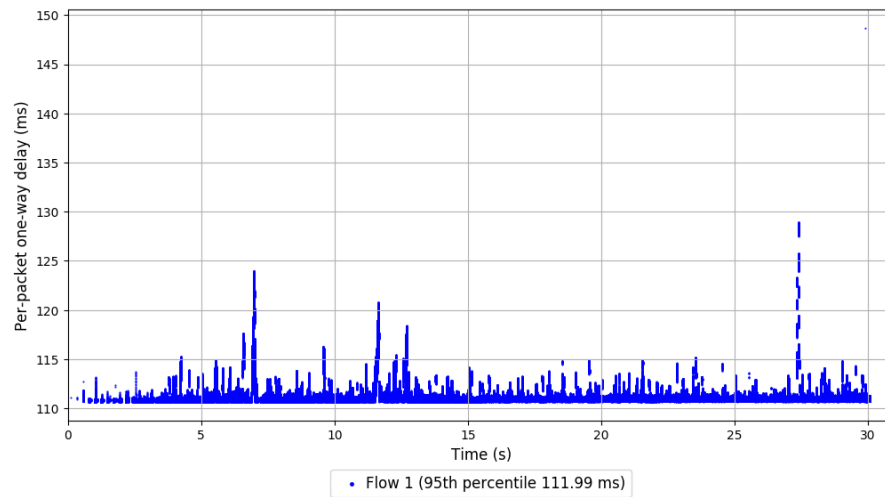
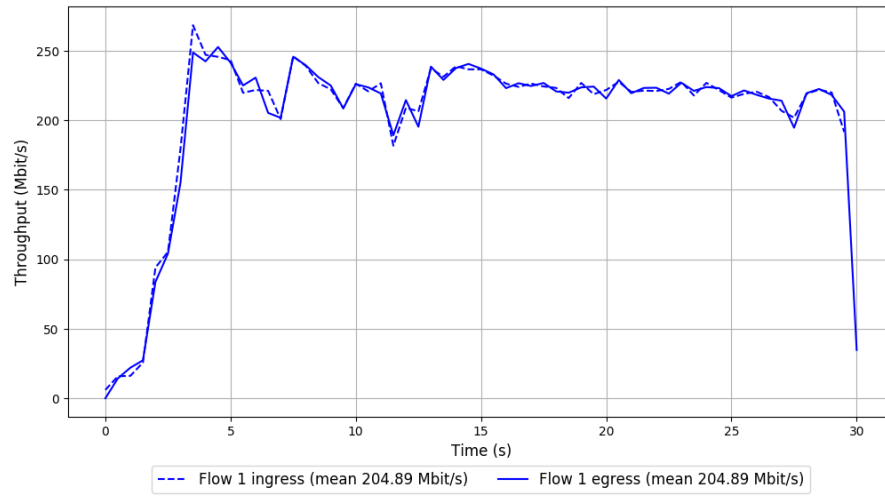


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-03-26 22:32:50
End at: 2018-03-26 22:33:20

# Below is generated by plot.py at 2018-03-27 02:37:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 204.89 Mbit/s
95th percentile per-packet one-way delay: 111.988 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 204.89 Mbit/s
95th percentile per-packet one-way delay: 111.988 ms
Loss rate: 0.00%
```

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

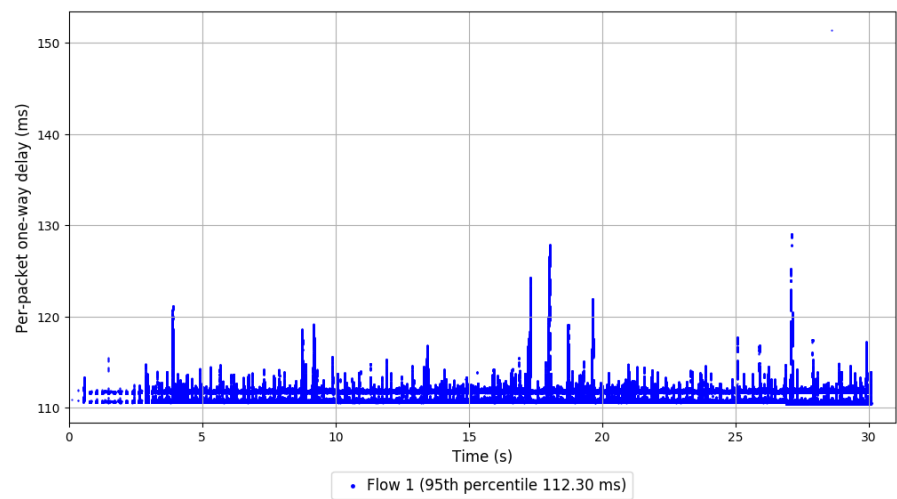
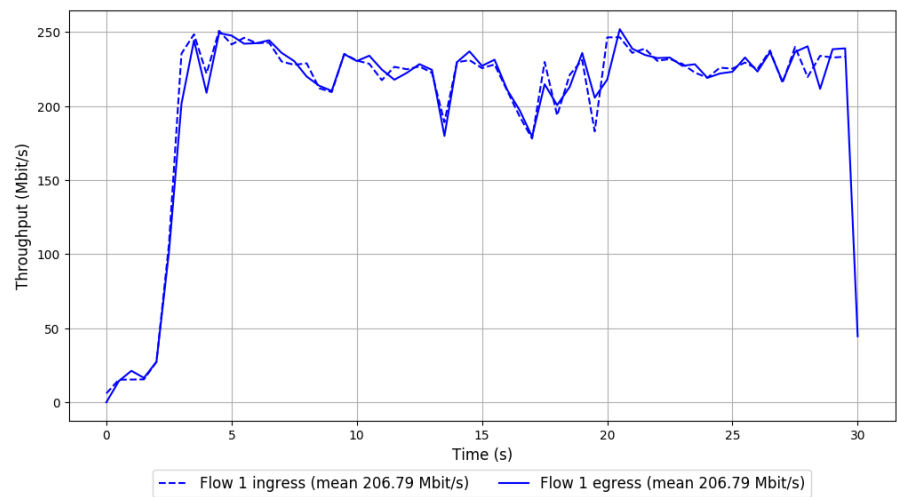


```
Run 2: Statistics of TaoVA-100x

Start at: 2018-03-26 22:48:15
End at: 2018-03-26 22:48:45

# Below is generated by plot.py at 2018-03-27 02:37:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 206.79 Mbit/s
95th percentile per-packet one-way delay: 112.302 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 206.79 Mbit/s
95th percentile per-packet one-way delay: 112.302 ms
Loss rate: 0.00%
```

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-03-26 23:03:59

End at: 2018-03-26 23:04:29

Below is generated by plot.py at 2018-03-27 02:37:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 122.17 Mbit/s

95th percentile per-packet one-way delay: 112.541 ms

Loss rate: 0.02%

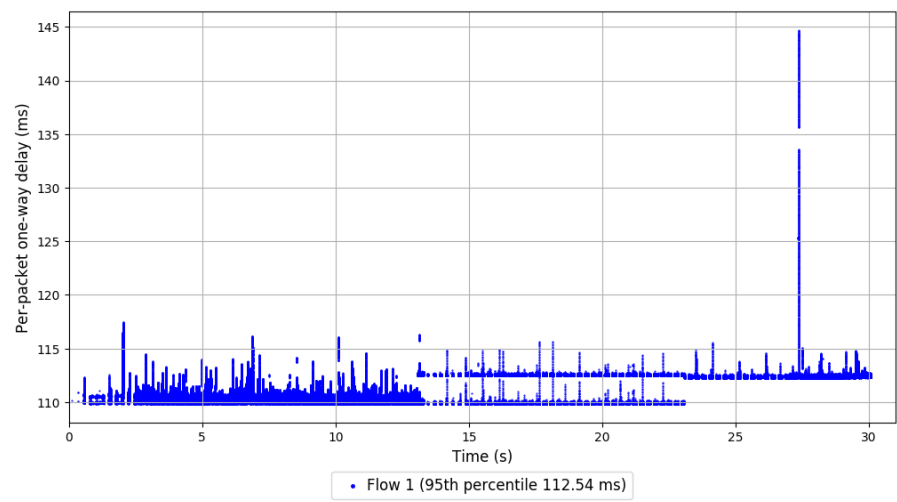
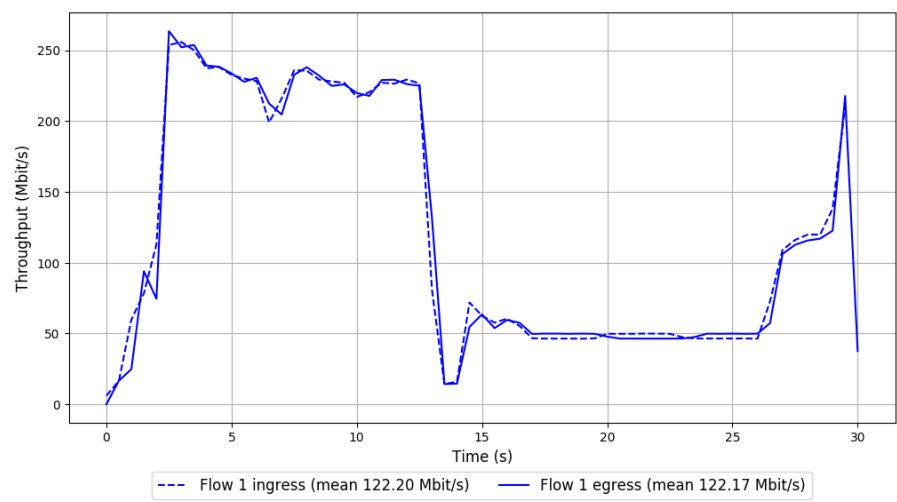
-- Flow 1:

Average throughput: 122.17 Mbit/s

95th percentile per-packet one-way delay: 112.541 ms

Loss rate: 0.02%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-03-26 23:19:35

End at: 2018-03-26 23:20:05

Below is generated by plot.py at 2018-03-27 02:37:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 14.95 Mbit/s

95th percentile per-packet one-way delay: 112.577 ms

Loss rate: 0.00%

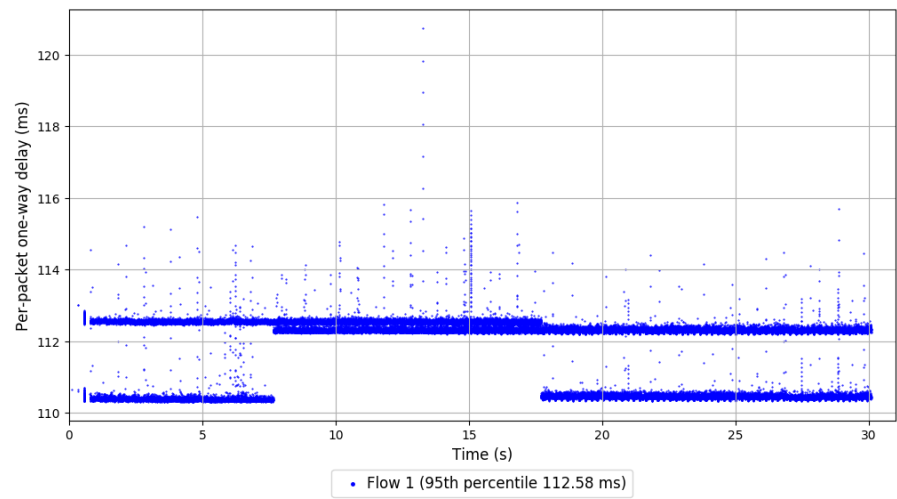
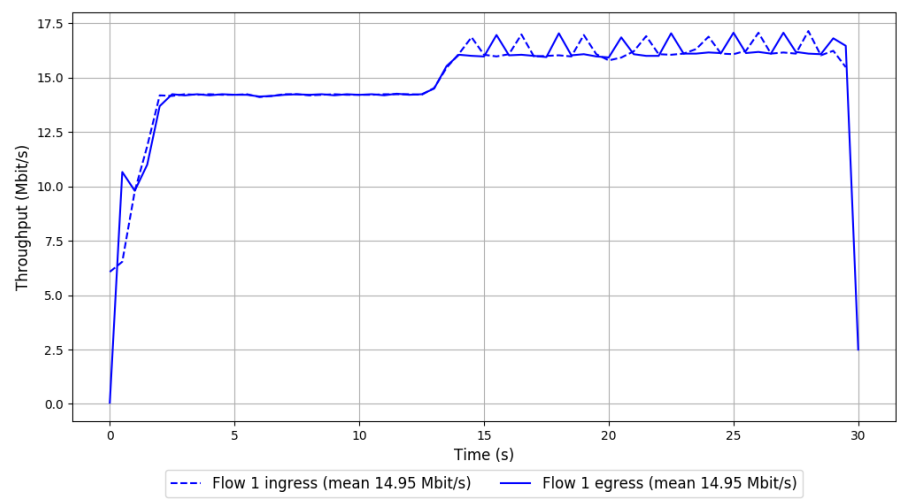
-- Flow 1:

Average throughput: 14.95 Mbit/s

95th percentile per-packet one-way delay: 112.577 ms

Loss rate: 0.00%

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

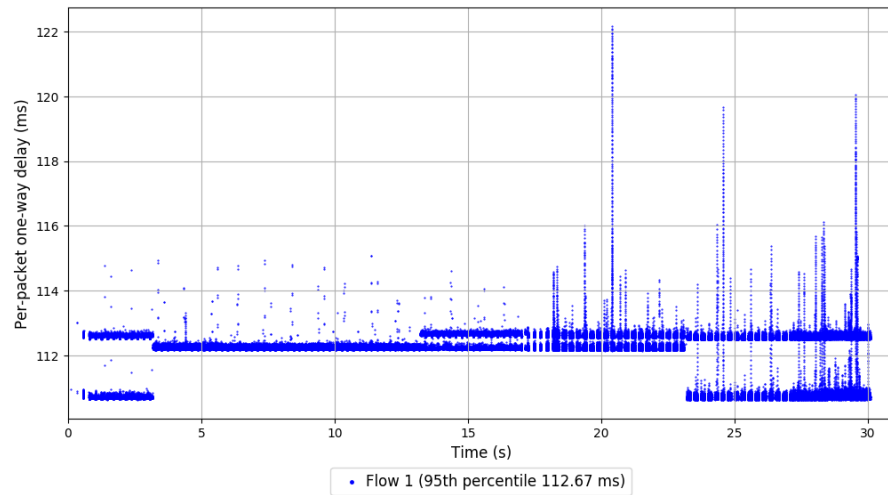
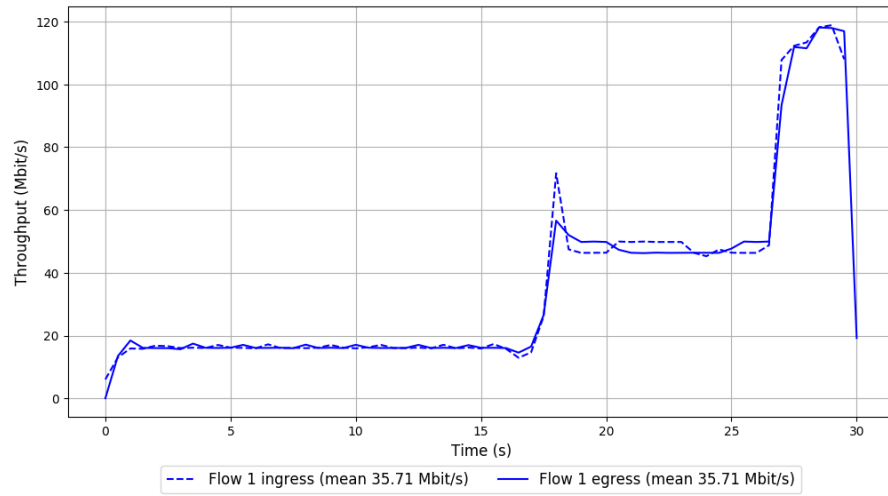


```
Run 5: Statistics of TaoVA-100x

Start at: 2018-03-26 23:34:59
End at: 2018-03-26 23:35:29

# Below is generated by plot.py at 2018-03-27 02:37:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 35.71 Mbit/s
95th percentile per-packet one-way delay: 112.669 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 35.71 Mbit/s
95th percentile per-packet one-way delay: 112.669 ms
Loss rate: 0.00%
```

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-03-26 23:50:33

End at: 2018-03-26 23:51:03

Below is generated by plot.py at 2018-03-27 02:37:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 206.33 Mbit/s

95th percentile per-packet one-way delay: 113.103 ms

Loss rate: 0.00%

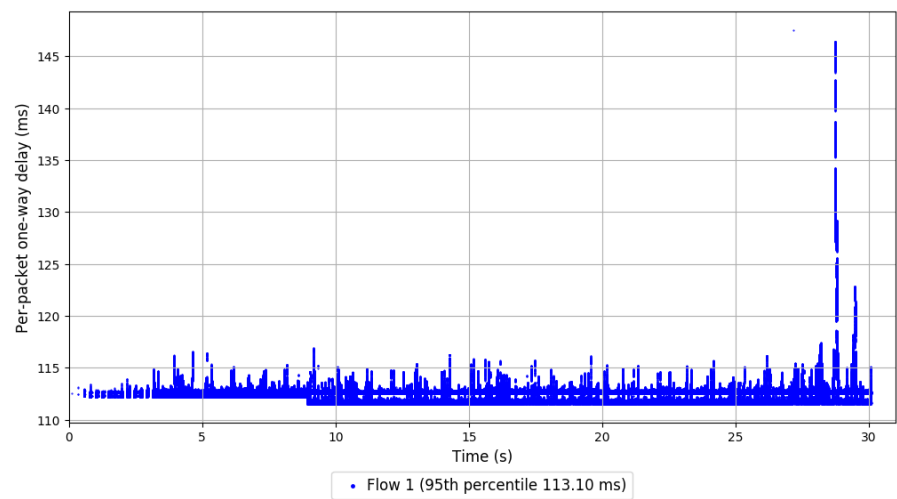
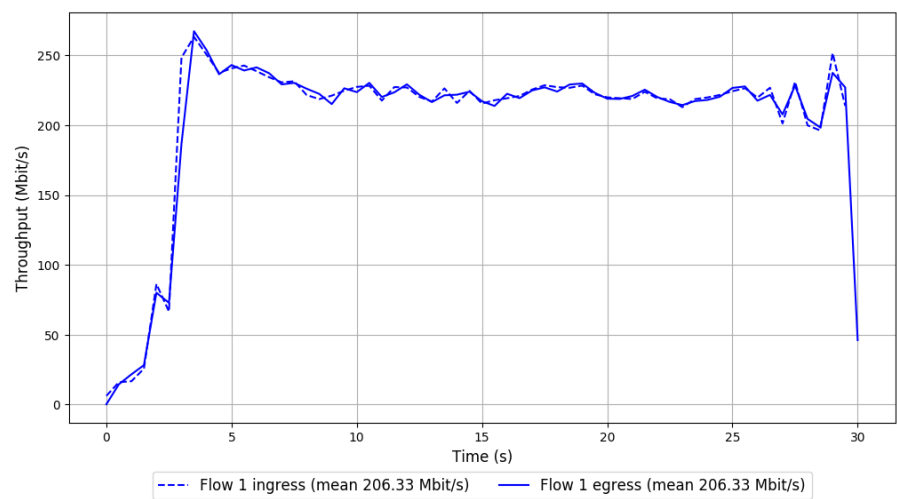
-- Flow 1:

Average throughput: 206.33 Mbit/s

95th percentile per-packet one-way delay: 113.103 ms

Loss rate: 0.00%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-03-27 00:06:14

End at: 2018-03-27 00:06:44

Below is generated by plot.py at 2018-03-27 02:37:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 17.09 Mbit/s

95th percentile per-packet one-way delay: 114.850 ms

Loss rate: 0.00%

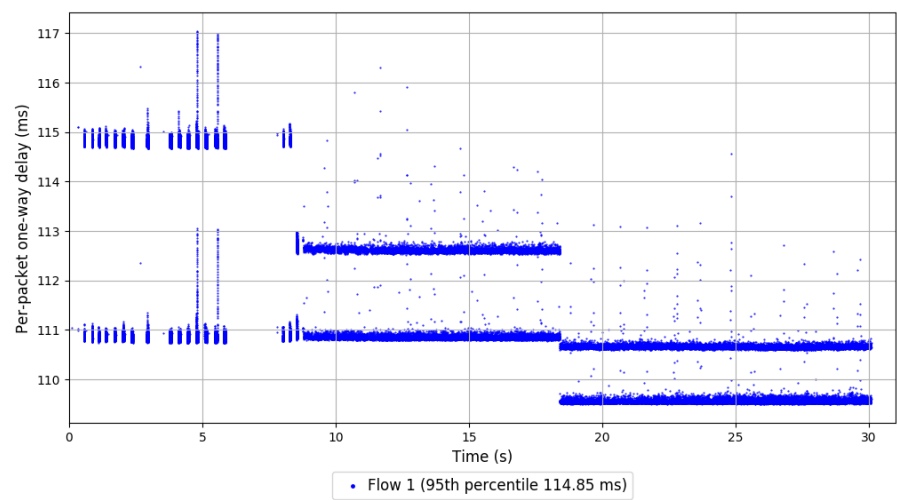
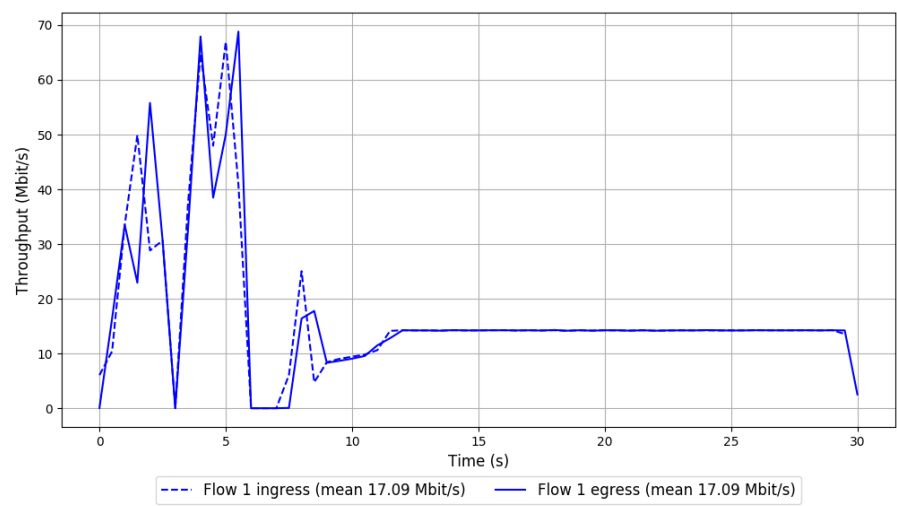
-- Flow 1:

Average throughput: 17.09 Mbit/s

95th percentile per-packet one-way delay: 114.850 ms

Loss rate: 0.00%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-03-27 00:21:24

End at: 2018-03-27 00:21:54

Below is generated by plot.py at 2018-03-27 02:37:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 115.35 Mbit/s

95th percentile per-packet one-way delay: 119.209 ms

Loss rate: 0.00%

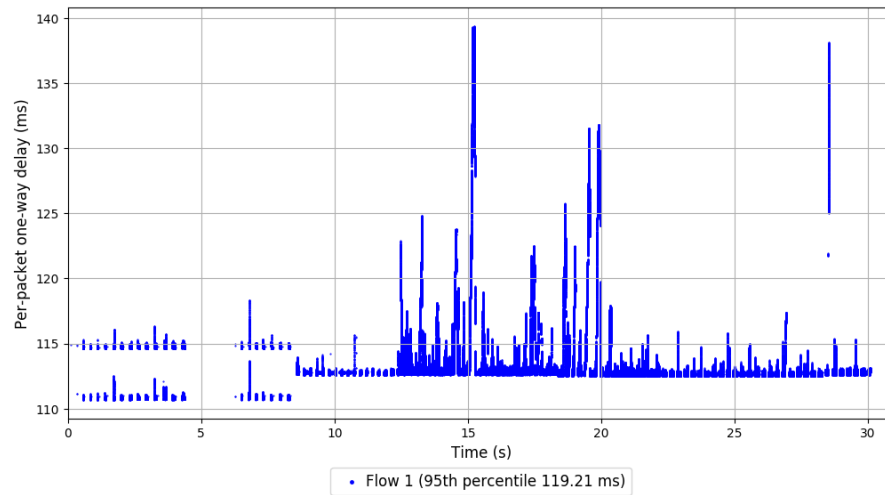
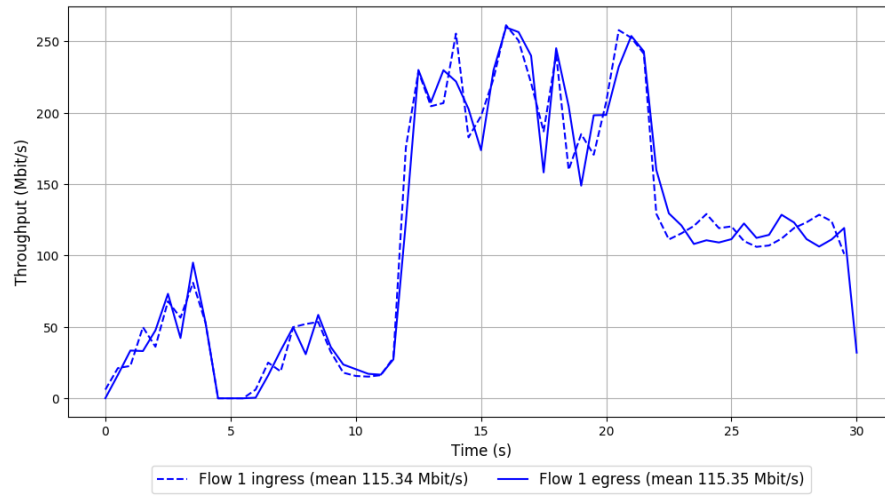
-- Flow 1:

Average throughput: 115.35 Mbit/s

95th percentile per-packet one-way delay: 119.209 ms

Loss rate: 0.00%

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

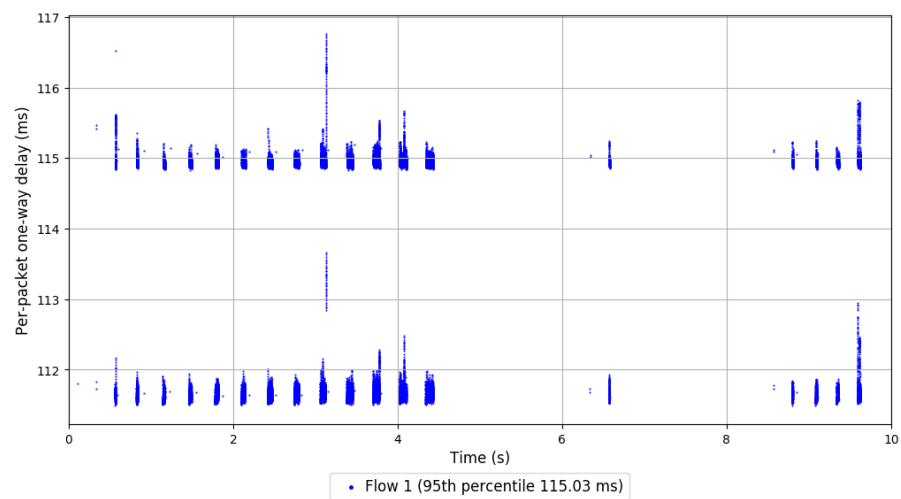
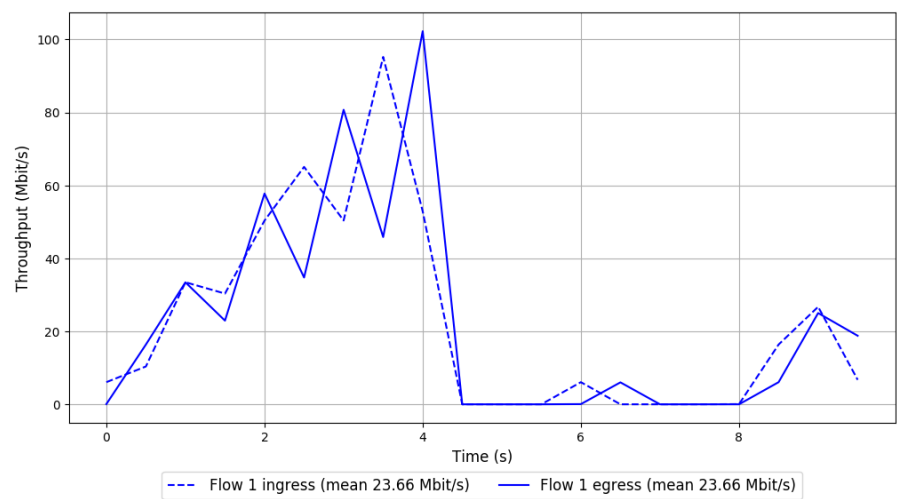


Run 9: Statistics of TaoVA-100x

Start at: 2018-03-27 00:37:03

End at: 2018-03-27 00:37:33

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

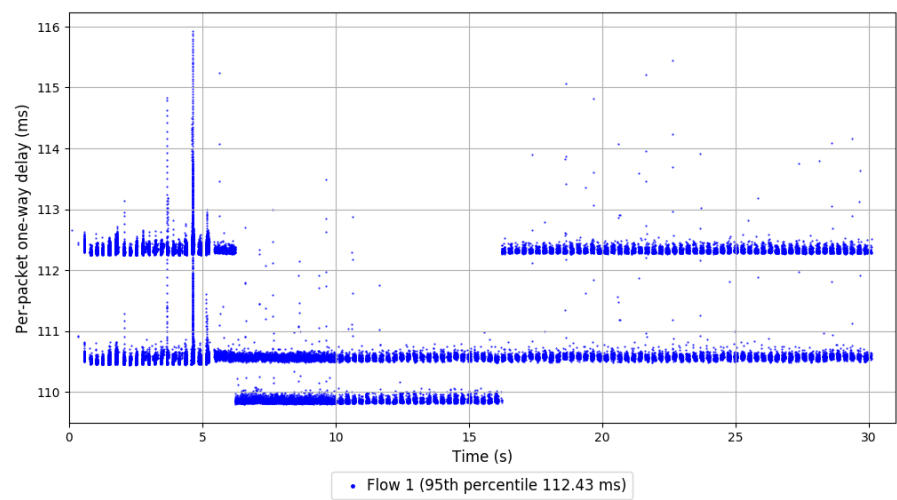
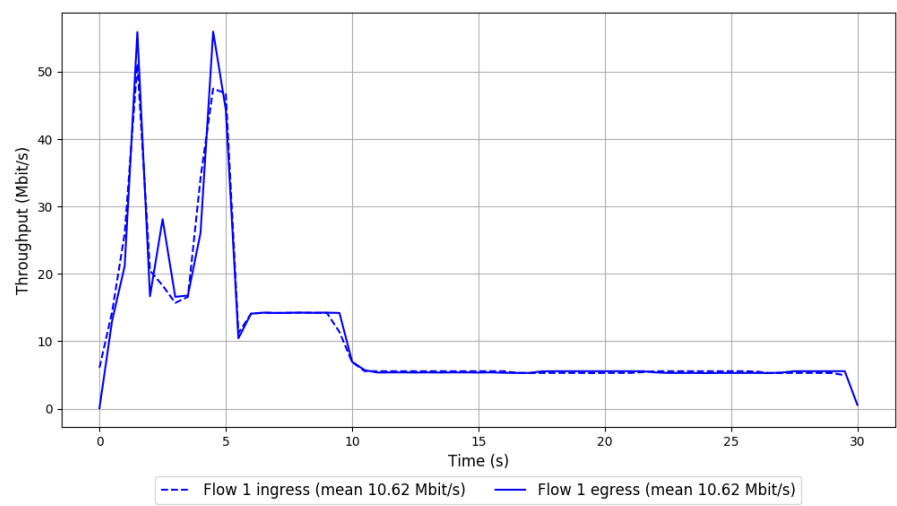


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-03-27 00:52:36
End at: 2018-03-27 00:53:06

# Below is generated by plot.py at 2018-03-27 02:37:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 10.62 Mbit/s
95th percentile per-packet one-way delay: 112.427 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 10.62 Mbit/s
95th percentile per-packet one-way delay: 112.427 ms
Loss rate: 0.00%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2018-03-26 22:30:13

End at: 2018-03-26 22:30:43

Below is generated by plot.py at 2018-03-27 02:37:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 29.91 Mbit/s

95th percentile per-packet one-way delay: 112.809 ms

Loss rate: 0.00%

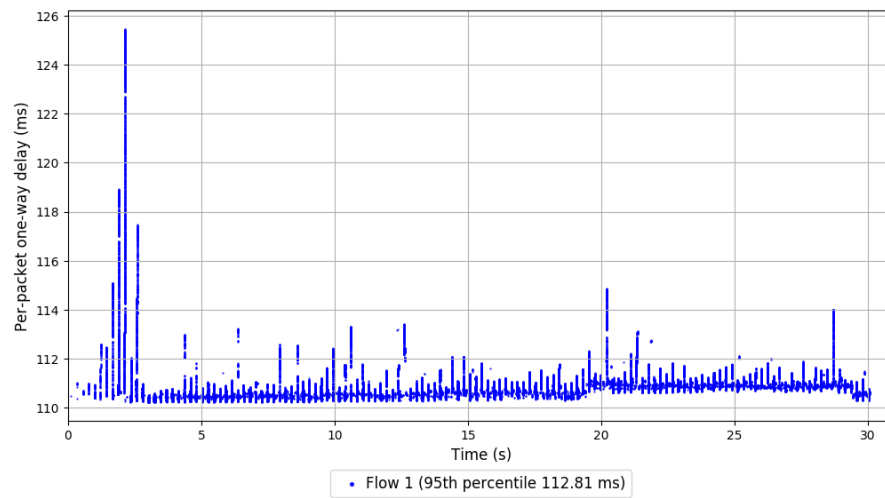
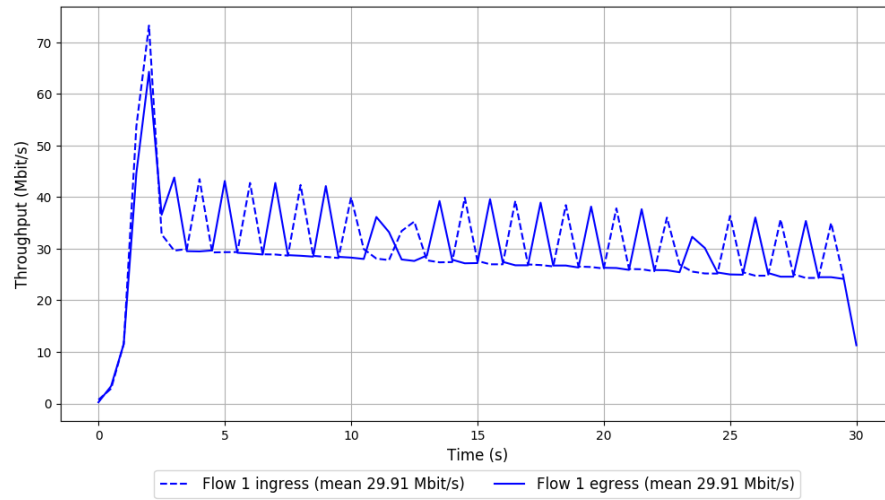
-- Flow 1:

Average throughput: 29.91 Mbit/s

95th percentile per-packet one-way delay: 112.809 ms

Loss rate: 0.00%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-03-26 22:45:39

End at: 2018-03-26 22:46:09

Below is generated by plot.py at 2018-03-27 02:37:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 28.43 Mbit/s

95th percentile per-packet one-way delay: 117.626 ms

Loss rate: 0.00%

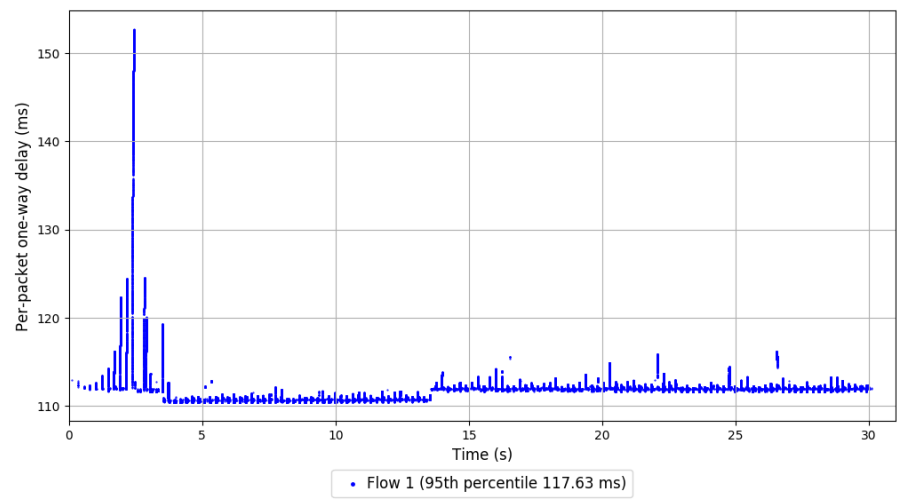
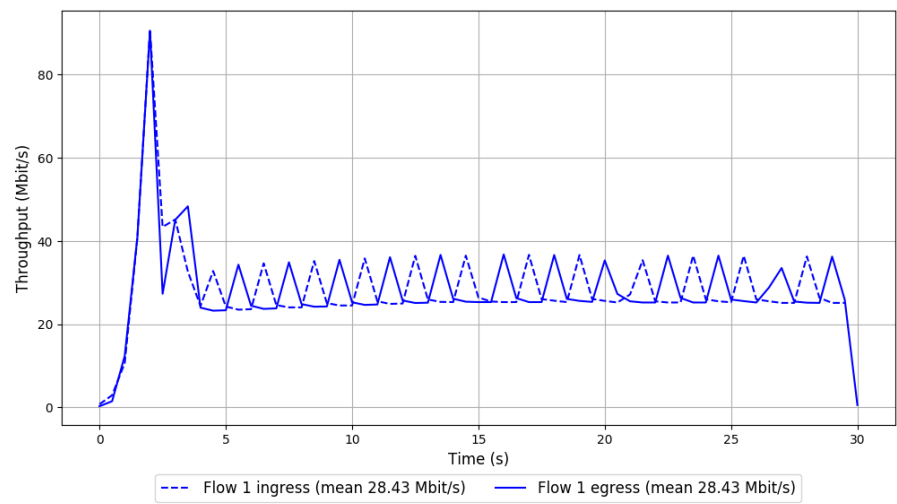
-- Flow 1:

Average throughput: 28.43 Mbit/s

95th percentile per-packet one-way delay: 117.626 ms

Loss rate: 0.00%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-03-26 23:01:22

End at: 2018-03-26 23:01:52

Below is generated by plot.py at 2018-03-27 02:37:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 62.58 Mbit/s

95th percentile per-packet one-way delay: 113.789 ms

Loss rate: 0.00%

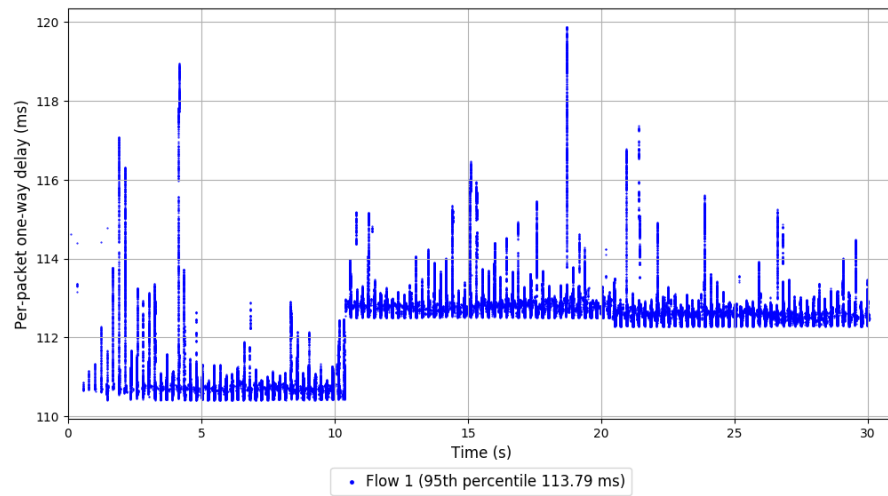
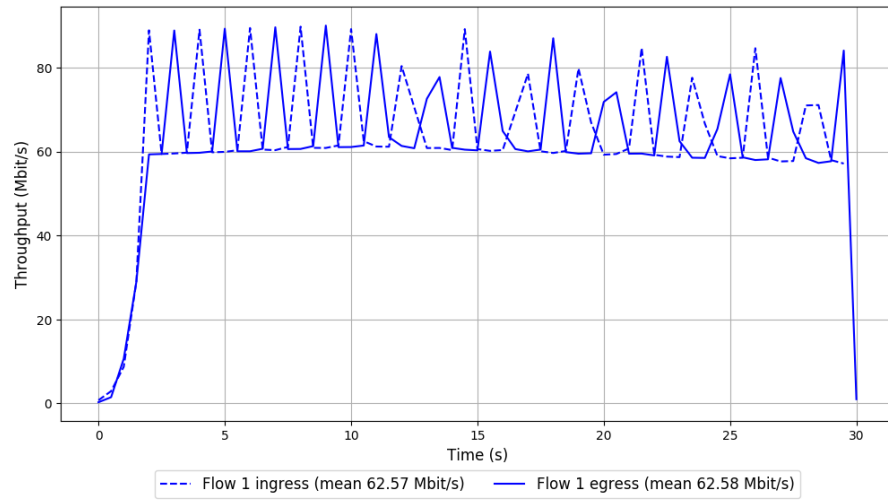
-- Flow 1:

Average throughput: 62.58 Mbit/s

95th percentile per-packet one-way delay: 113.789 ms

Loss rate: 0.00%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-03-26 23:16:56

End at: 2018-03-26 23:17:27

Below is generated by plot.py at 2018-03-27 02:37:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 60.63 Mbit/s

95th percentile per-packet one-way delay: 116.000 ms

Loss rate: 0.00%

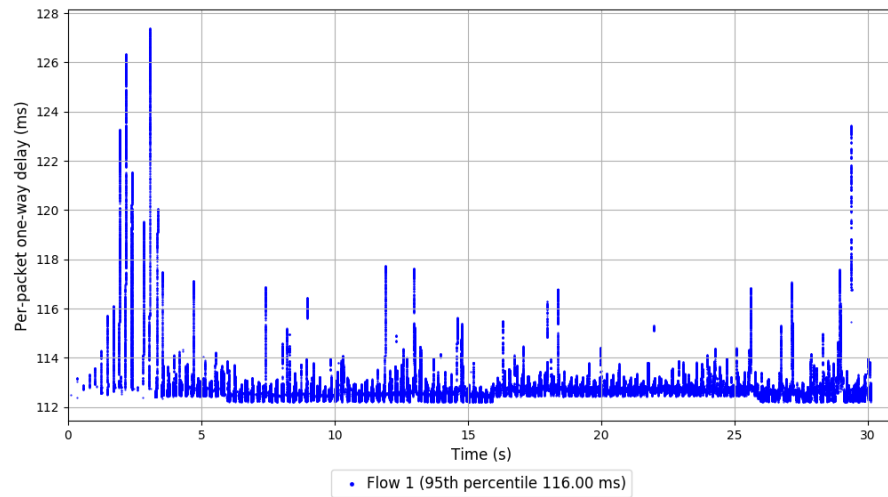
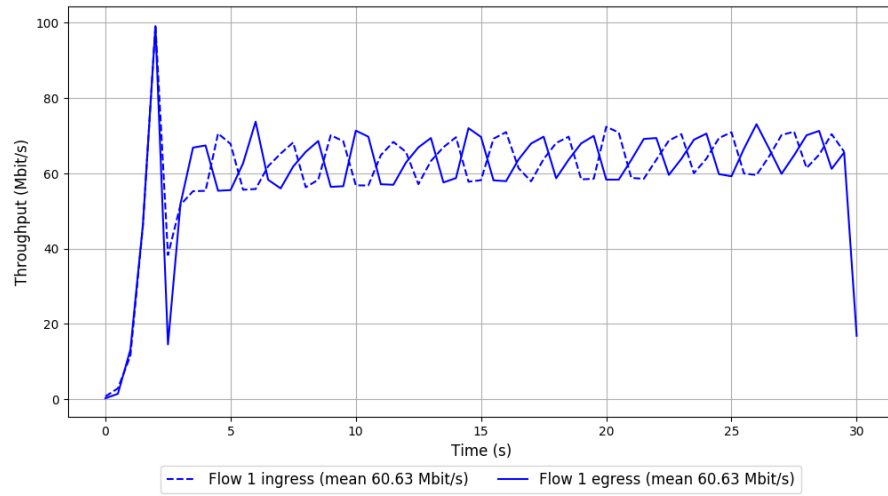
-- Flow 1:

Average throughput: 60.63 Mbit/s

95th percentile per-packet one-way delay: 116.000 ms

Loss rate: 0.00%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-03-26 23:32:22

End at: 2018-03-26 23:32:52

Below is generated by plot.py at 2018-03-27 02:37:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 29.66 Mbit/s

95th percentile per-packet one-way delay: 114.279 ms

Loss rate: 0.00%

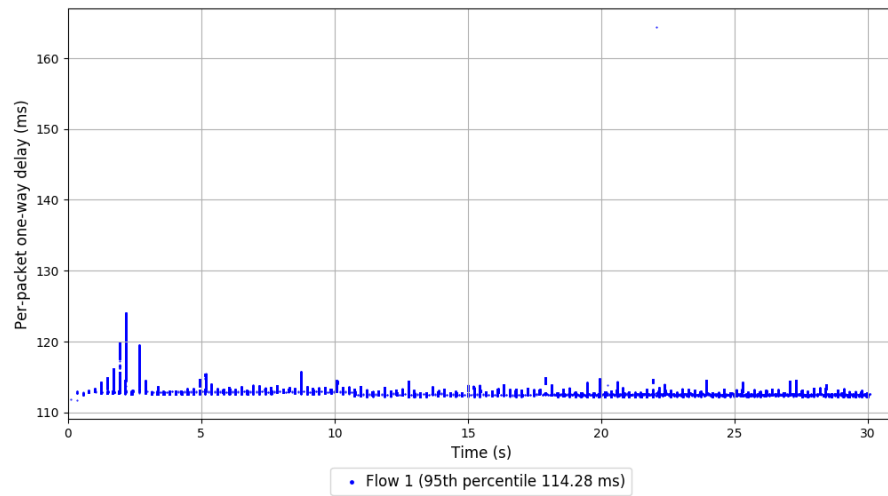
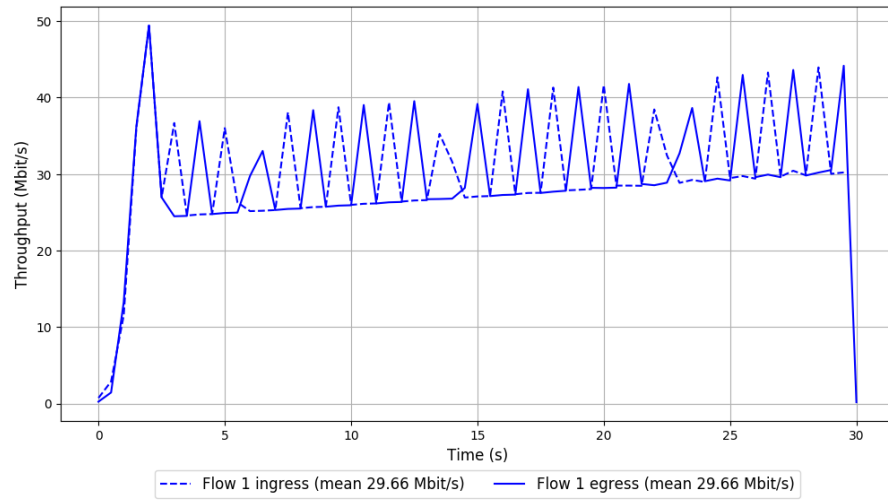
-- Flow 1:

Average throughput: 29.66 Mbit/s

95th percentile per-packet one-way delay: 114.279 ms

Loss rate: 0.00%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-03-26 23:47:54

End at: 2018-03-26 23:48:24

Below is generated by plot.py at 2018-03-27 02:37:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 48.47 Mbit/s

95th percentile per-packet one-way delay: 114.557 ms

Loss rate: 0.00%

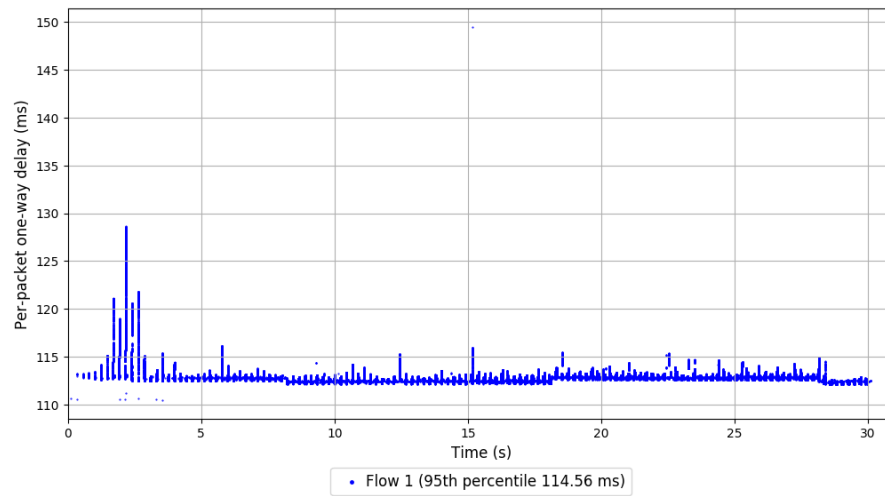
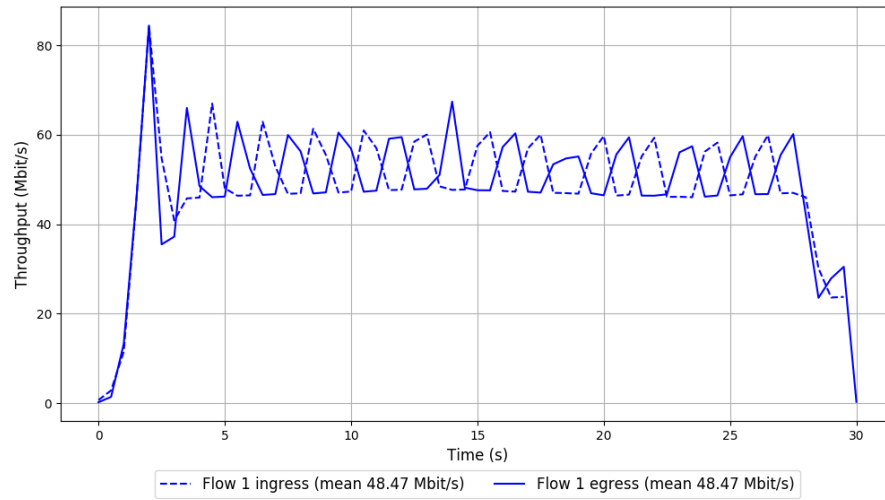
-- Flow 1:

Average throughput: 48.47 Mbit/s

95th percentile per-packet one-way delay: 114.557 ms

Loss rate: 0.00%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-03-27 00:03:37

End at: 2018-03-27 00:04:07

Below is generated by plot.py at 2018-03-27 02:37:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 29.97 Mbit/s

95th percentile per-packet one-way delay: 115.514 ms

Loss rate: 0.00%

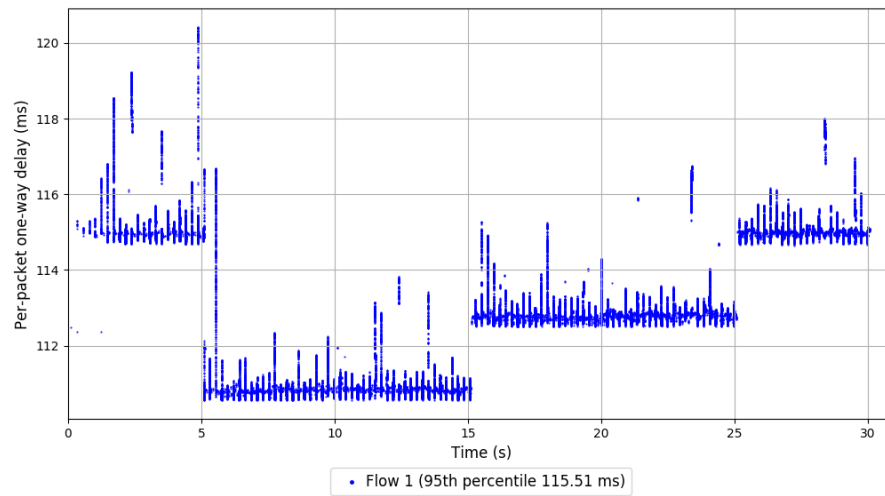
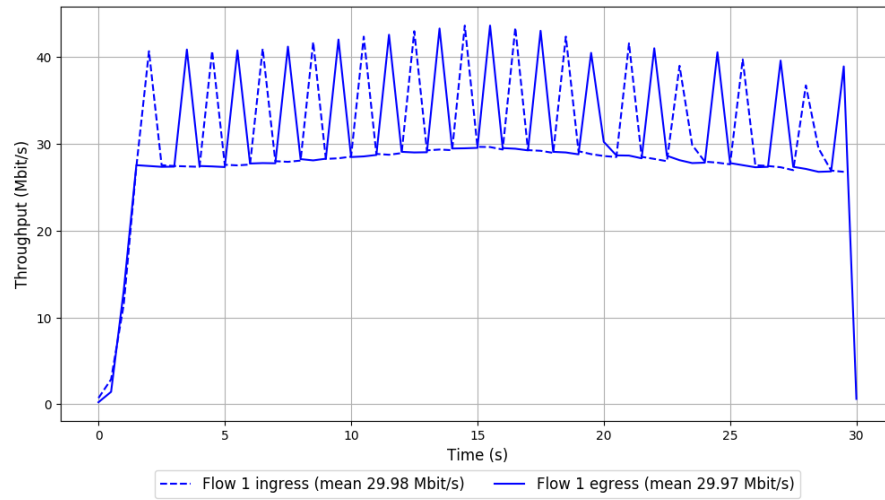
-- Flow 1:

Average throughput: 29.97 Mbit/s

95th percentile per-packet one-way delay: 115.514 ms

Loss rate: 0.00%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-03-27 00:18:50

End at: 2018-03-27 00:19:20

Below is generated by plot.py at 2018-03-27 02:37:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 31.51 Mbit/s

95th percentile per-packet one-way delay: 115.906 ms

Loss rate: 0.00%

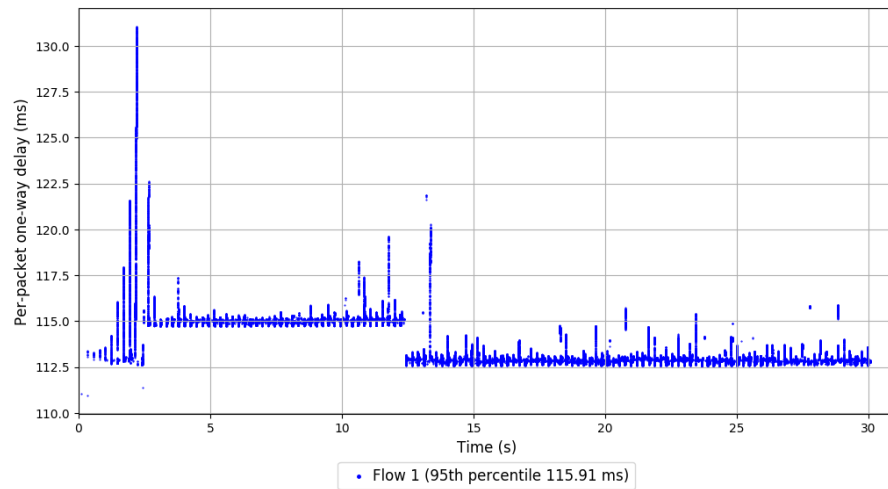
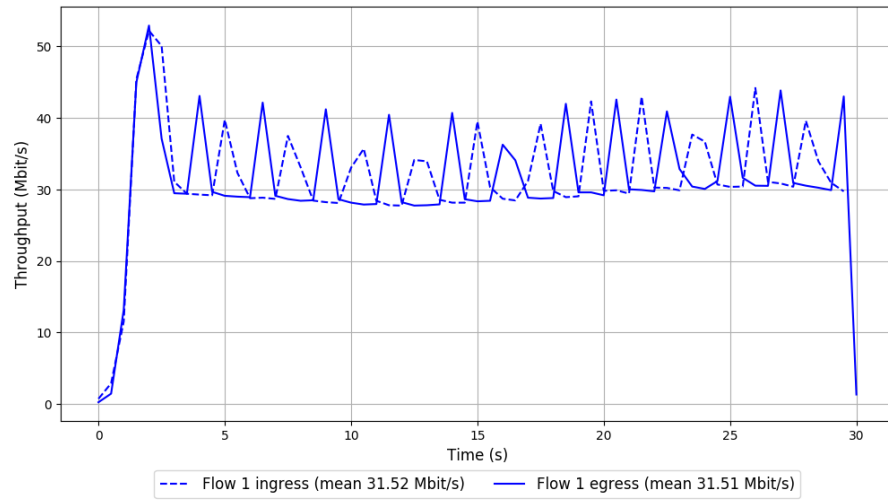
-- Flow 1:

Average throughput: 31.51 Mbit/s

95th percentile per-packet one-way delay: 115.906 ms

Loss rate: 0.00%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-03-27 00:34:24

End at: 2018-03-27 00:34:54

Below is generated by plot.py at 2018-03-27 02:37:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 67.68 Mbit/s

95th percentile per-packet one-way delay: 112.368 ms

Loss rate: 0.00%

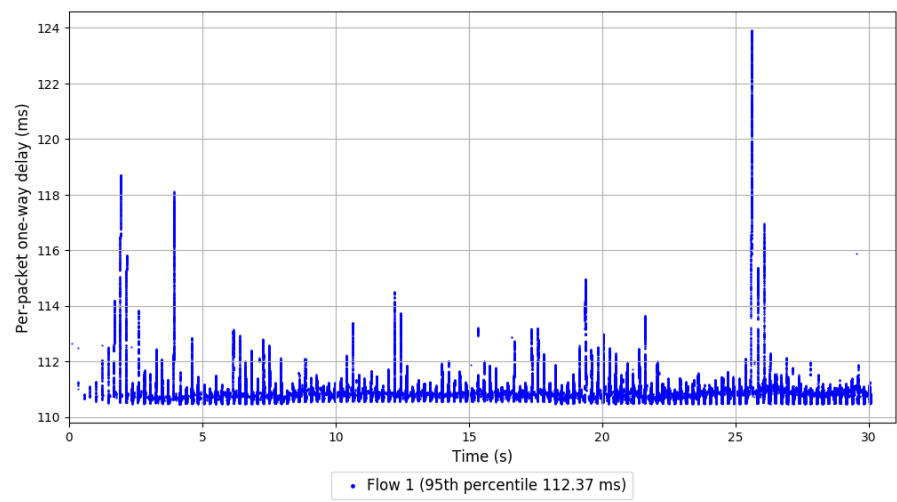
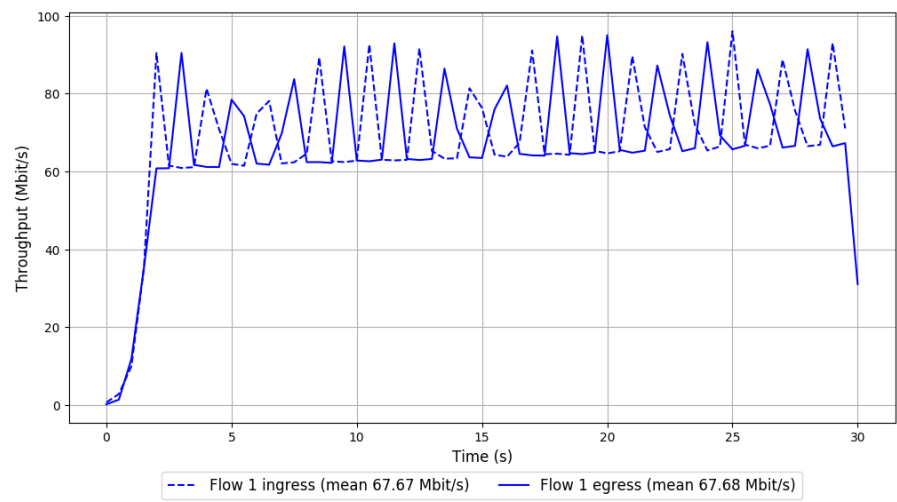
-- Flow 1:

Average throughput: 67.68 Mbit/s

95th percentile per-packet one-way delay: 112.368 ms

Loss rate: 0.00%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-03-27 00:50:00

End at: 2018-03-27 00:50:30

Below is generated by plot.py at 2018-03-27 02:37:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 22.97 Mbit/s

95th percentile per-packet one-way delay: 113.479 ms

Loss rate: 0.00%

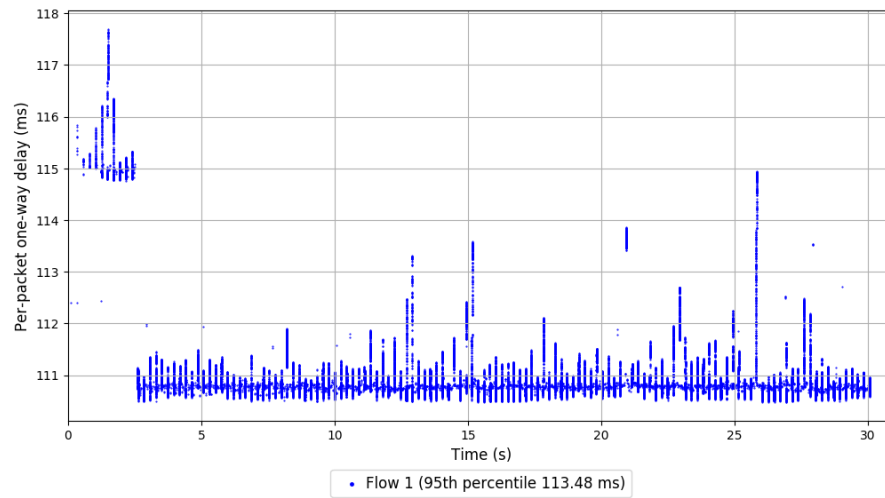
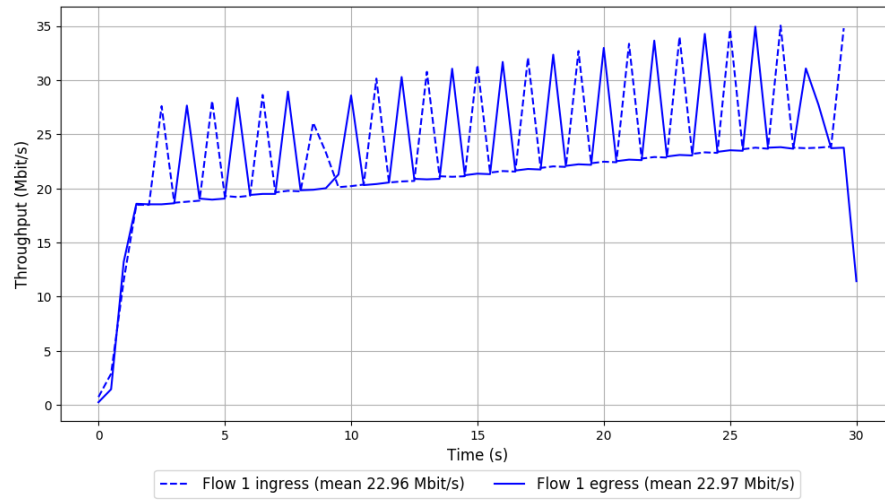
-- Flow 1:

Average throughput: 22.97 Mbit/s

95th percentile per-packet one-way delay: 113.479 ms

Loss rate: 0.00%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-03-26 22:25:14

End at: 2018-03-26 22:25:44

Below is generated by plot.py at 2018-03-27 02:39:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 214.99 Mbit/s

95th percentile per-packet one-way delay: 263.322 ms

Loss rate: 0.49%

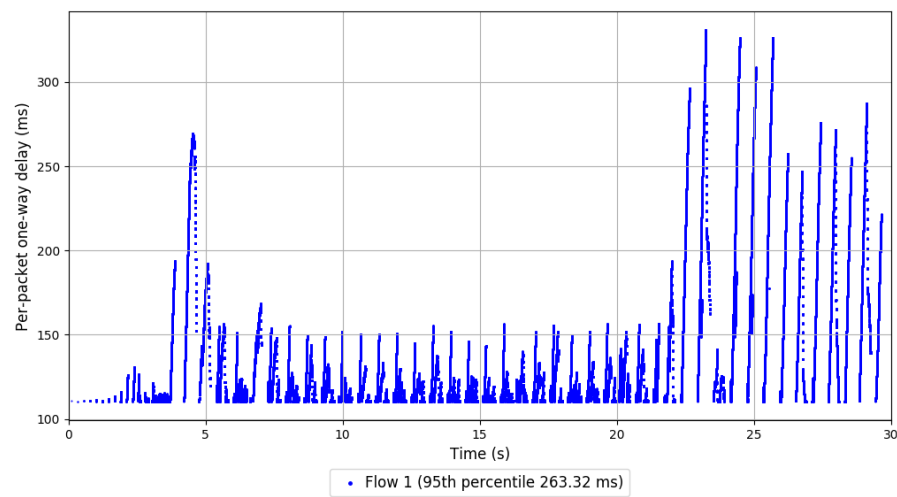
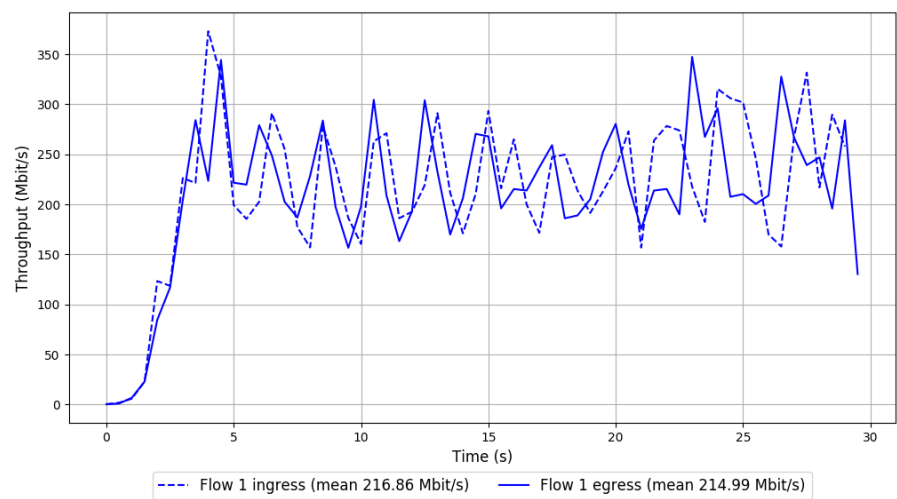
-- Flow 1:

Average throughput: 214.99 Mbit/s

95th percentile per-packet one-way delay: 263.322 ms

Loss rate: 0.49%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-03-26 22:40:54

End at: 2018-03-26 22:41:24

Below is generated by plot.py at 2018-03-27 02:39:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 132.37 Mbit/s

95th percentile per-packet one-way delay: 133.052 ms

Loss rate: 0.00%

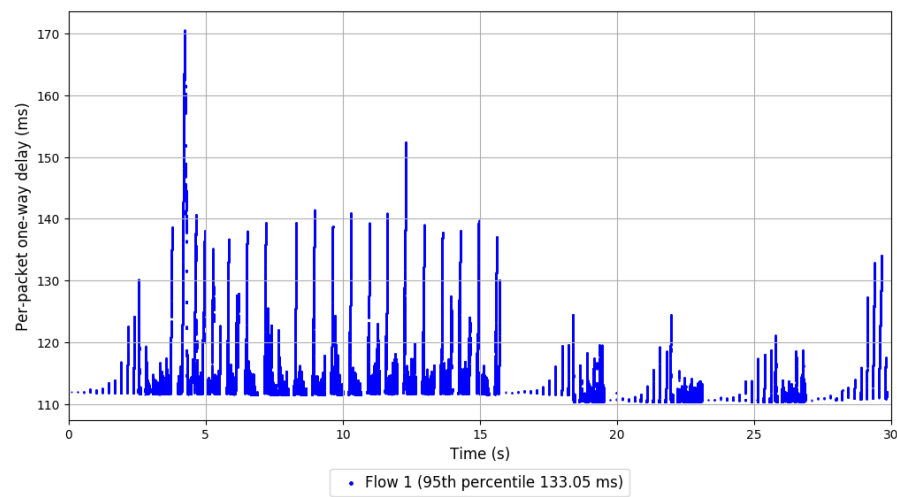
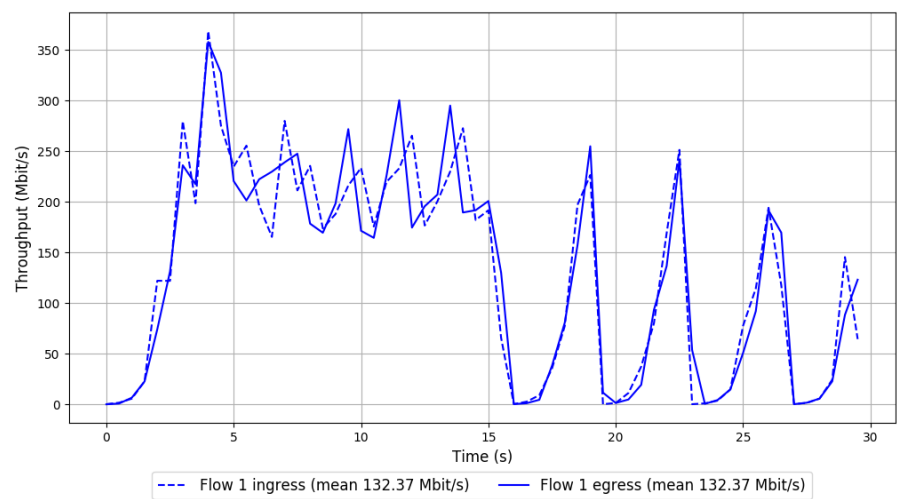
-- Flow 1:

Average throughput: 132.37 Mbit/s

95th percentile per-packet one-way delay: 133.052 ms

Loss rate: 0.00%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-03-26 22:56:24

End at: 2018-03-26 22:56:54

Below is generated by plot.py at 2018-03-27 02:39:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 213.93 Mbit/s

95th percentile per-packet one-way delay: 219.763 ms

Loss rate: 0.46%

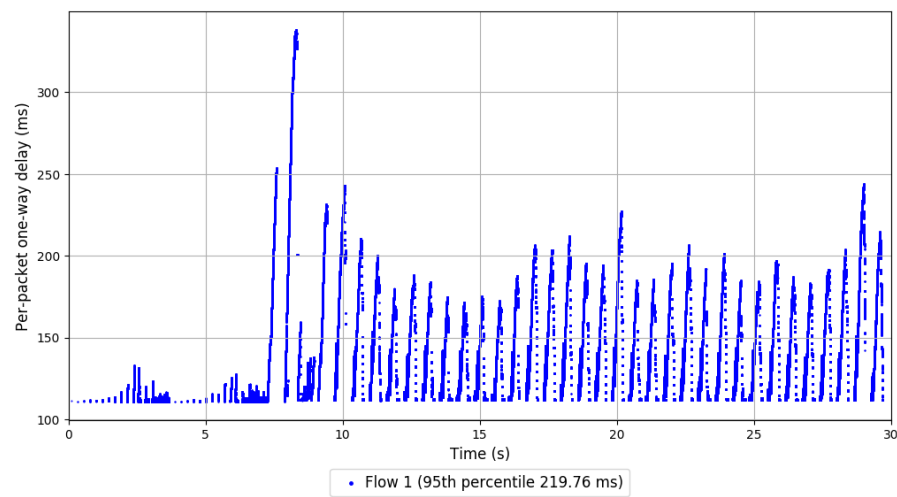
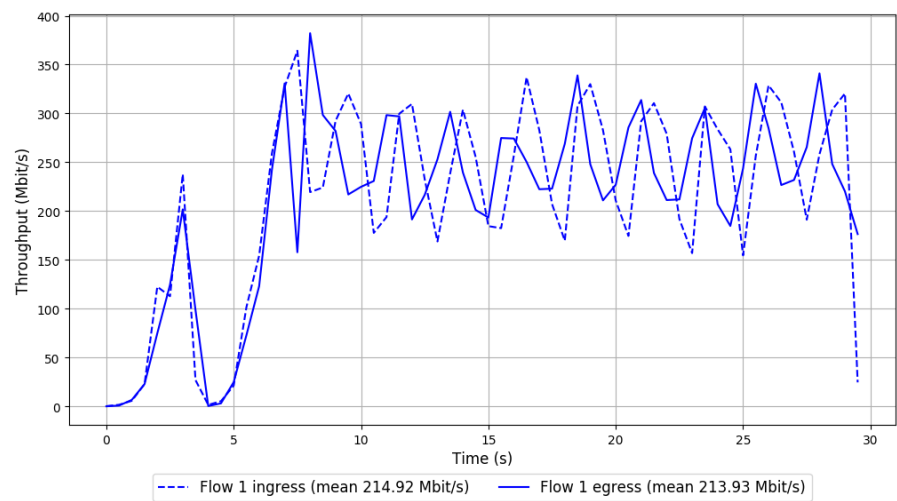
-- Flow 1:

Average throughput: 213.93 Mbit/s

95th percentile per-packet one-way delay: 219.763 ms

Loss rate: 0.46%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-03-26 23:12:05

End at: 2018-03-26 23:12:35

Below is generated by plot.py at 2018-03-27 02:39:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 128.87 Mbit/s

95th percentile per-packet one-way delay: 126.760 ms

Loss rate: 0.01%

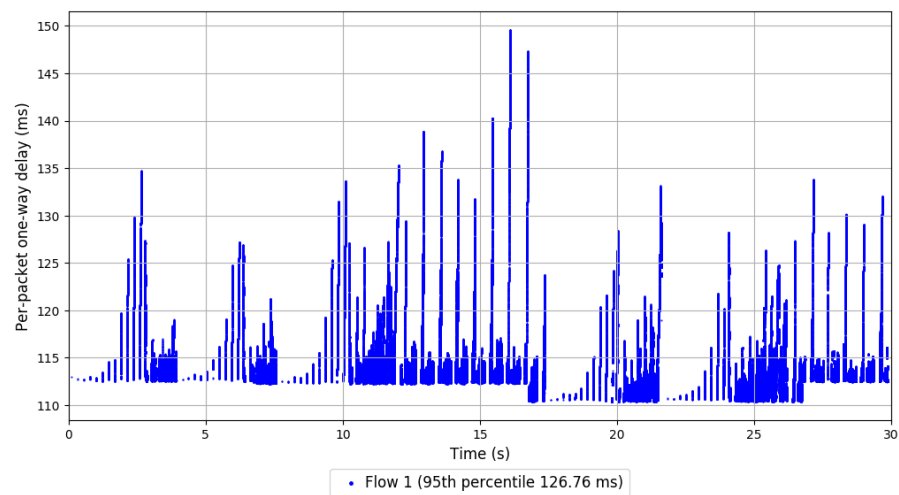
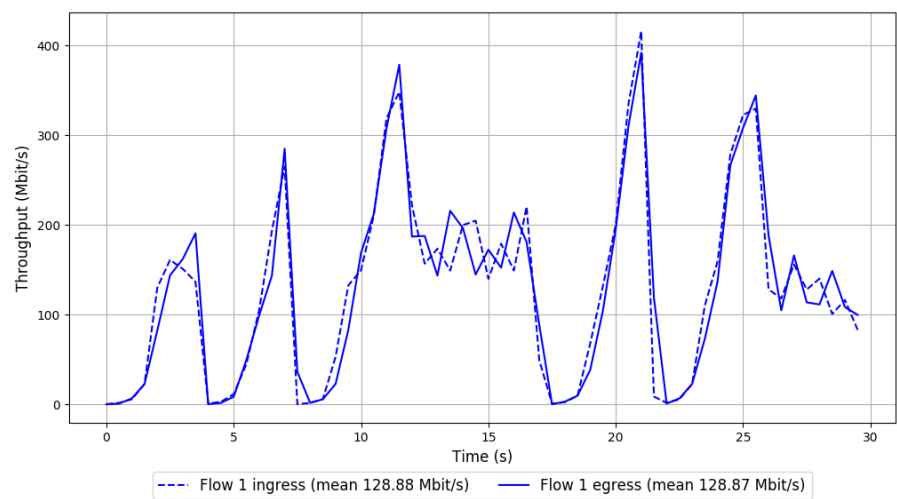
-- Flow 1:

Average throughput: 128.87 Mbit/s

95th percentile per-packet one-way delay: 126.760 ms

Loss rate: 0.01%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-03-26 23:27:27

End at: 2018-03-26 23:27:57

Below is generated by plot.py at 2018-03-27 02:39:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 169.77 Mbit/s

95th percentile per-packet one-way delay: 133.719 ms

Loss rate: 0.00%

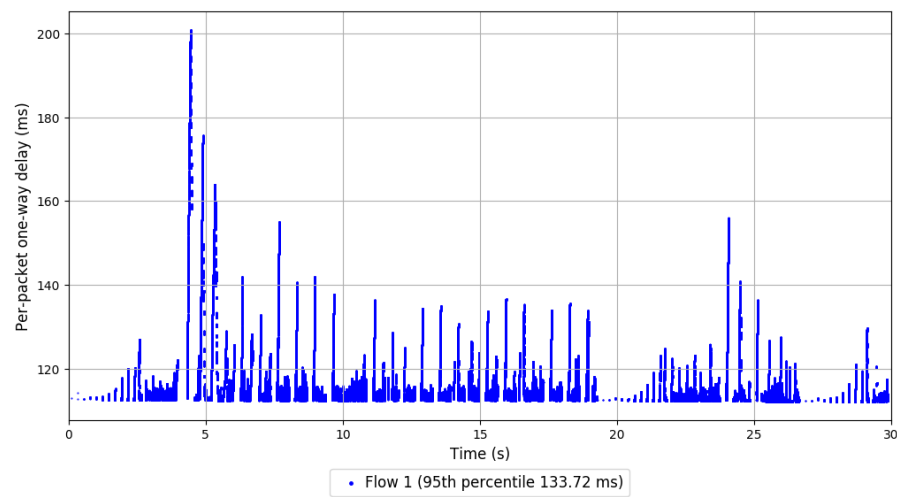
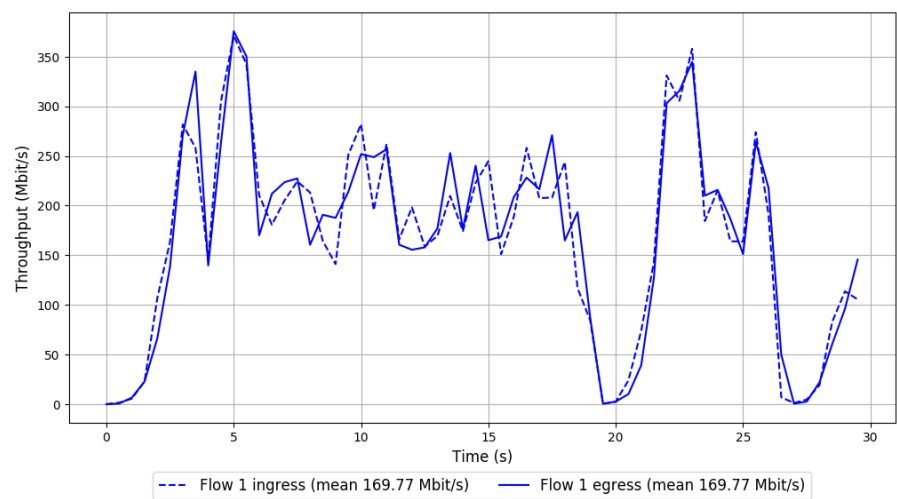
-- Flow 1:

Average throughput: 169.77 Mbit/s

95th percentile per-packet one-way delay: 133.719 ms

Loss rate: 0.00%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-03-26 23:42:55

End at: 2018-03-26 23:43:25

Below is generated by plot.py at 2018-03-27 02:40:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 201.32 Mbit/s

95th percentile per-packet one-way delay: 358.579 ms

Loss rate: 11.23%

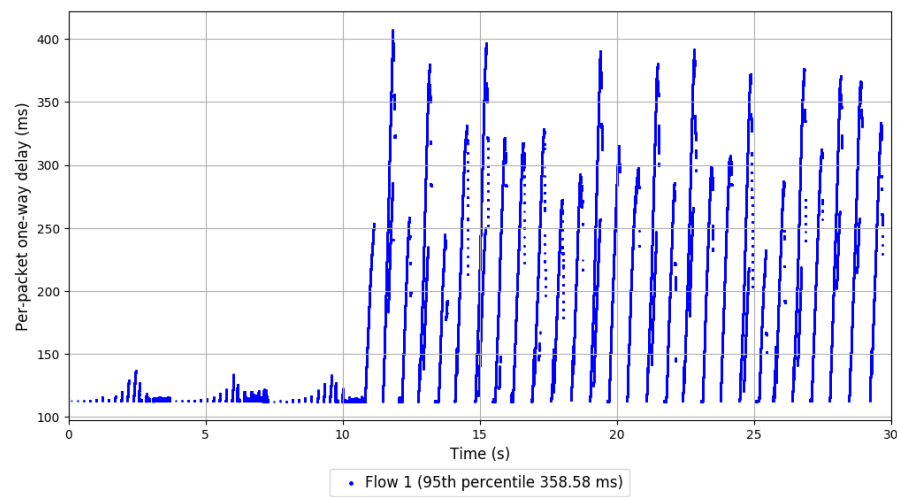
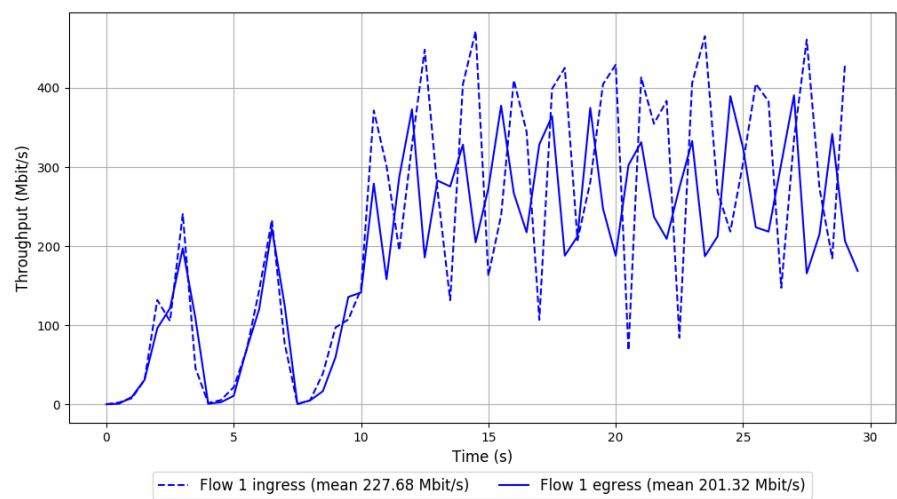
-- Flow 1:

Average throughput: 201.32 Mbit/s

95th percentile per-packet one-way delay: 358.579 ms

Loss rate: 11.23%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-03-26 23:58:45

End at: 2018-03-26 23:59:15

Below is generated by plot.py at 2018-03-27 02:40:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 117.12 Mbit/s

95th percentile per-packet one-way delay: 140.714 ms

Loss rate: 0.06%

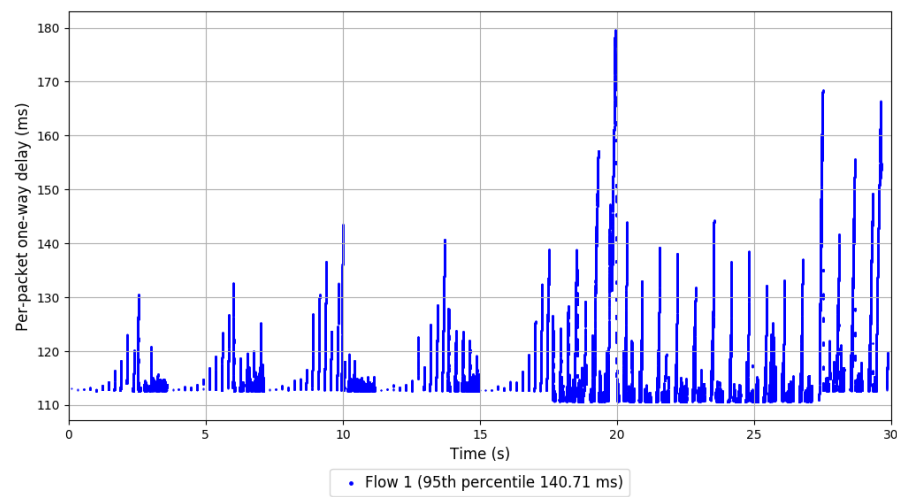
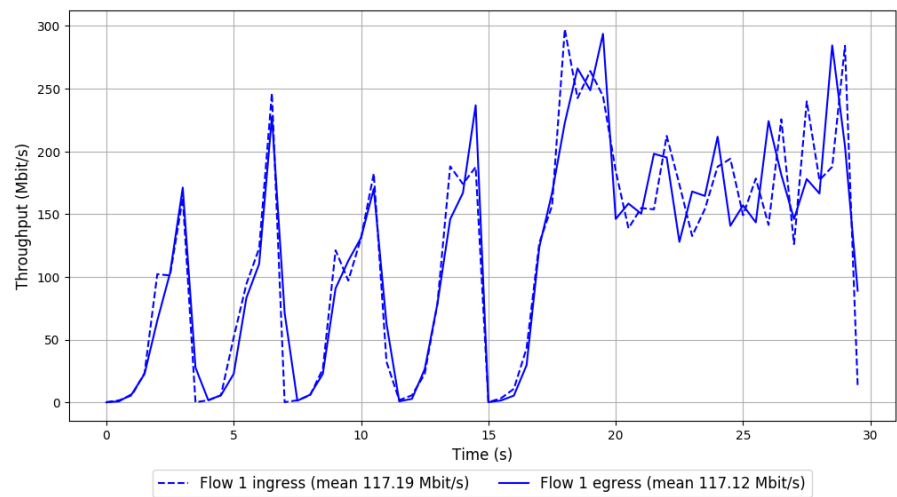
-- Flow 1:

Average throughput: 117.12 Mbit/s

95th percentile per-packet one-way delay: 140.714 ms

Loss rate: 0.06%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-03-27 00:14:07

End at: 2018-03-27 00:14:37

Below is generated by plot.py at 2018-03-27 02:40:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.24 Mbit/s

95th percentile per-packet one-way delay: 234.470 ms

Loss rate: 0.46%

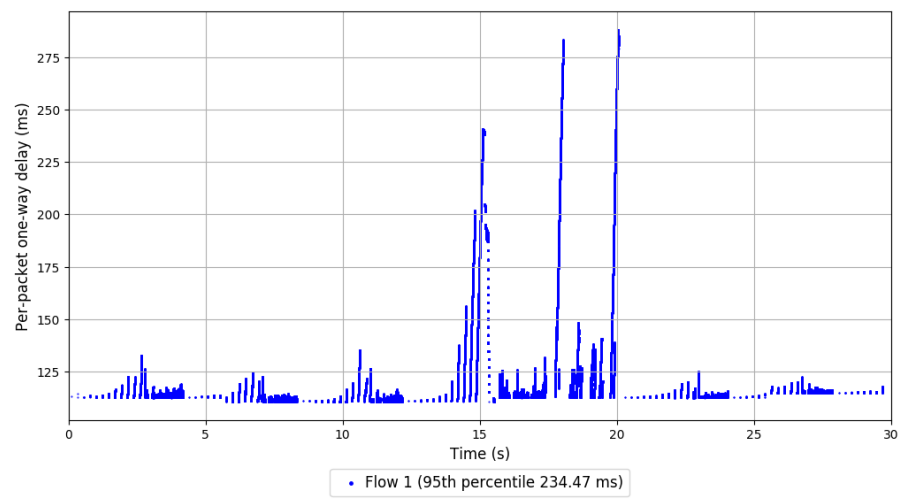
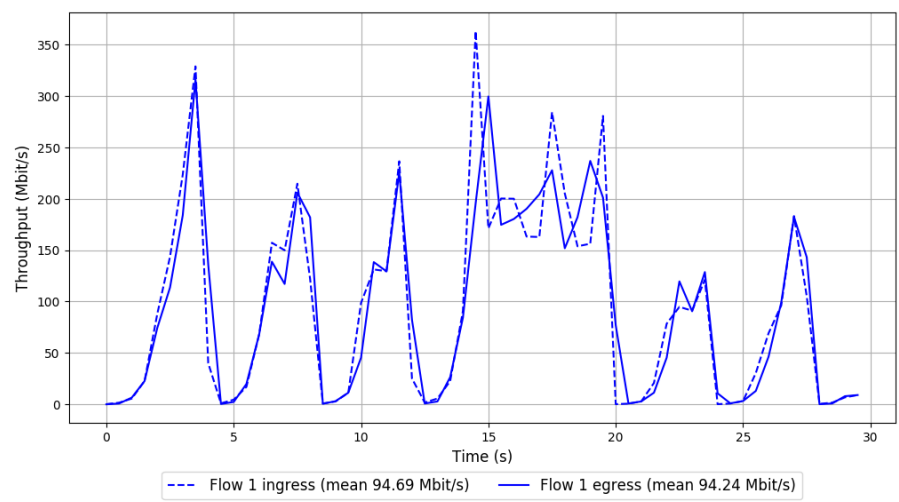
-- Flow 1:

Average throughput: 94.24 Mbit/s

95th percentile per-packet one-way delay: 234.470 ms

Loss rate: 0.46%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-03-27 00:29:24

End at: 2018-03-27 00:29:54

Below is generated by plot.py at 2018-03-27 02:41:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 187.49 Mbit/s

95th percentile per-packet one-way delay: 239.621 ms

Loss rate: 0.80%

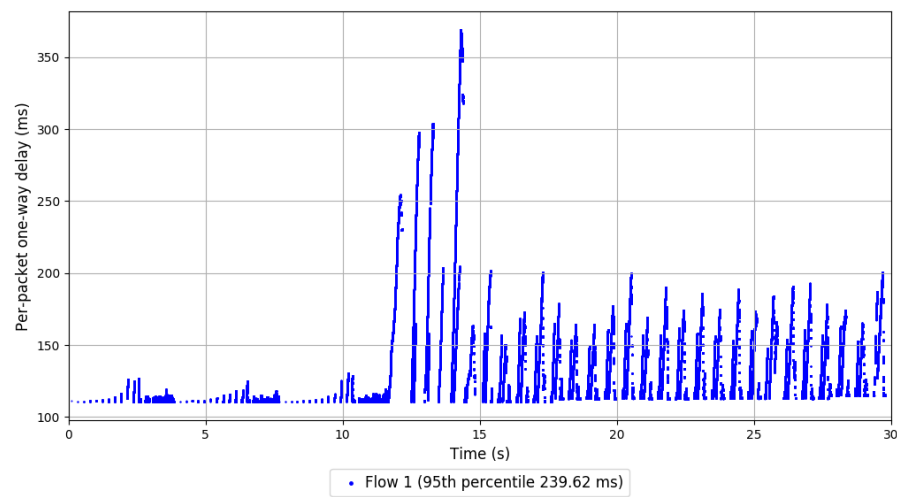
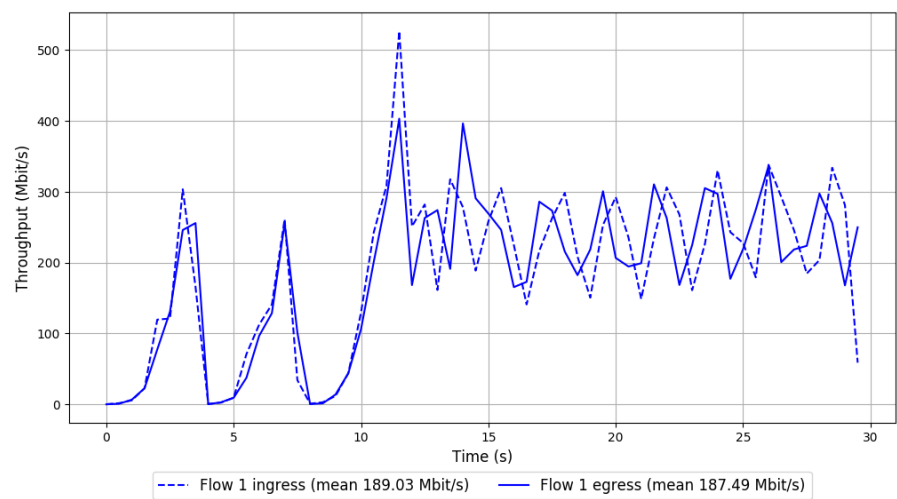
-- Flow 1:

Average throughput: 187.49 Mbit/s

95th percentile per-packet one-way delay: 239.621 ms

Loss rate: 0.80%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-03-27 00:44:59

End at: 2018-03-27 00:45:29

Below is generated by plot.py at 2018-03-27 02:41:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 158.31 Mbit/s

95th percentile per-packet one-way delay: 150.797 ms

Loss rate: 0.00%

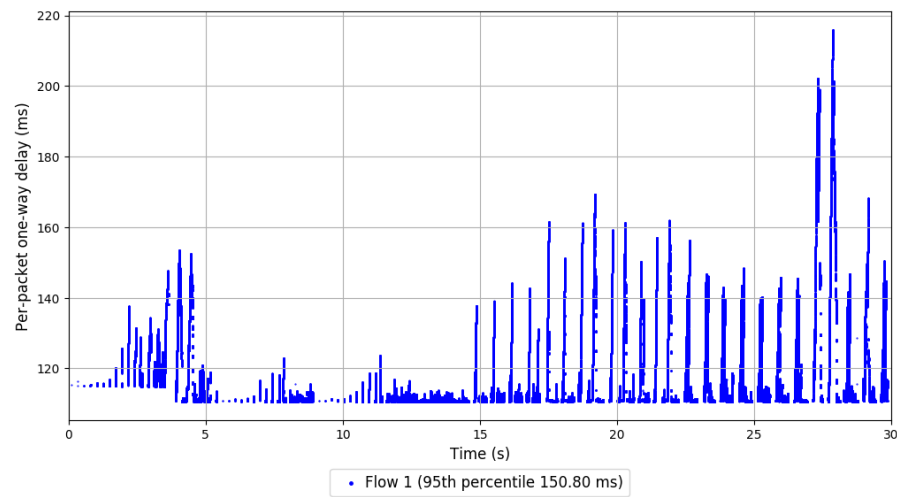
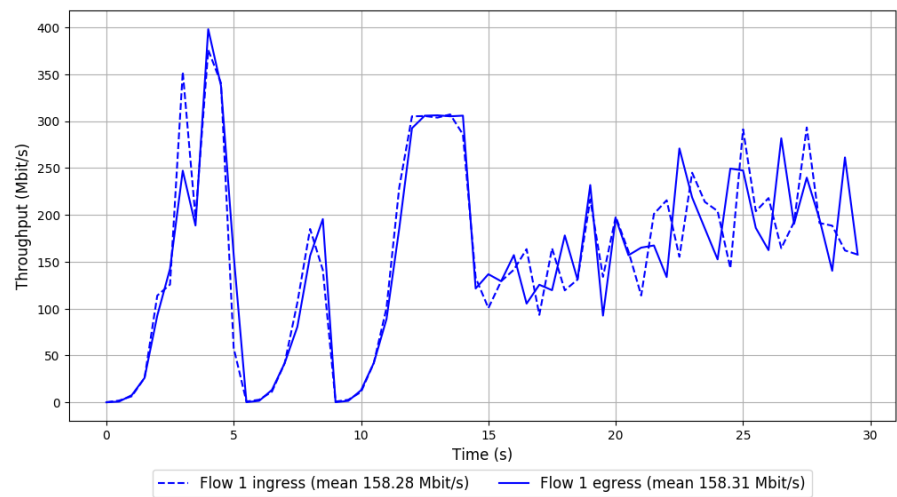
-- Flow 1:

Average throughput: 158.31 Mbit/s

95th percentile per-packet one-way delay: 150.797 ms

Loss rate: 0.00%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2018-03-26 22:22:58

End at: 2018-03-26 22:23:28

Below is generated by plot.py at 2018-03-27 02:41:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.65 Mbit/s

95th percentile per-packet one-way delay: 112.108 ms

Loss rate: 0.00%

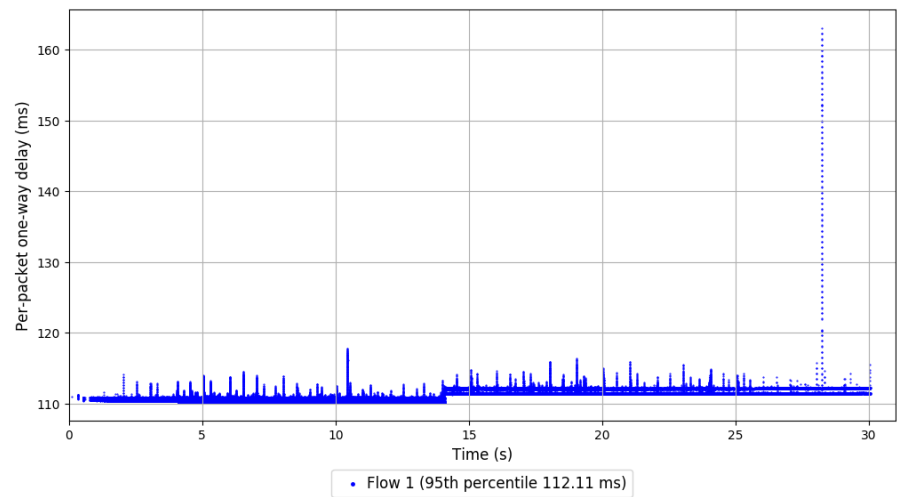
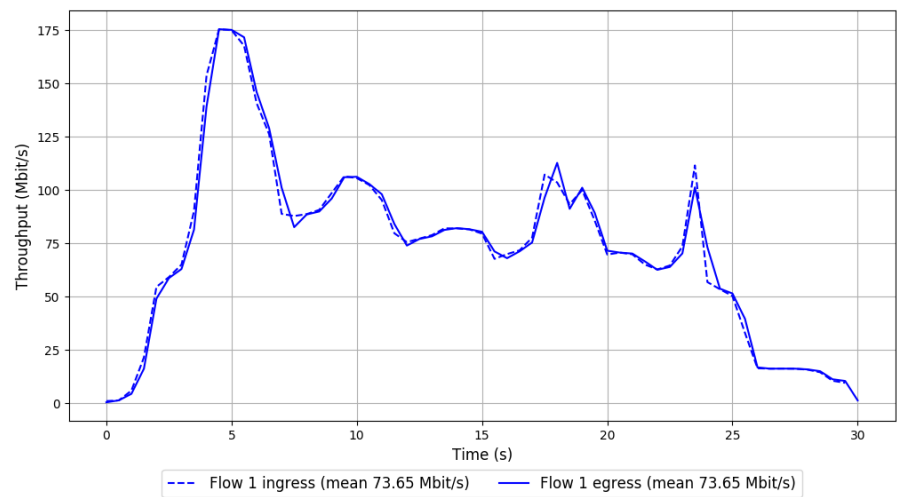
-- Flow 1:

Average throughput: 73.65 Mbit/s

95th percentile per-packet one-way delay: 112.108 ms

Loss rate: 0.00%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-03-26 22:38:37

End at: 2018-03-26 22:39:07

Below is generated by plot.py at 2018-03-27 02:42:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 81.82 Mbit/s

95th percentile per-packet one-way delay: 112.595 ms

Loss rate: 0.00%

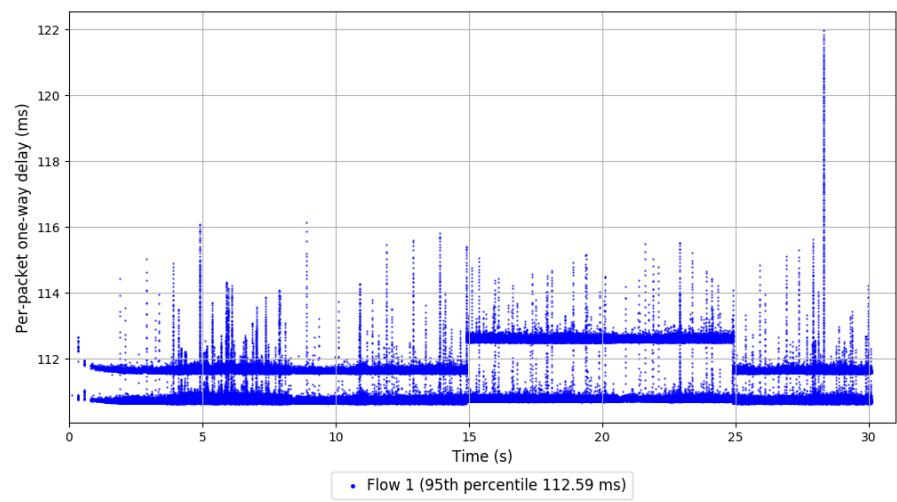
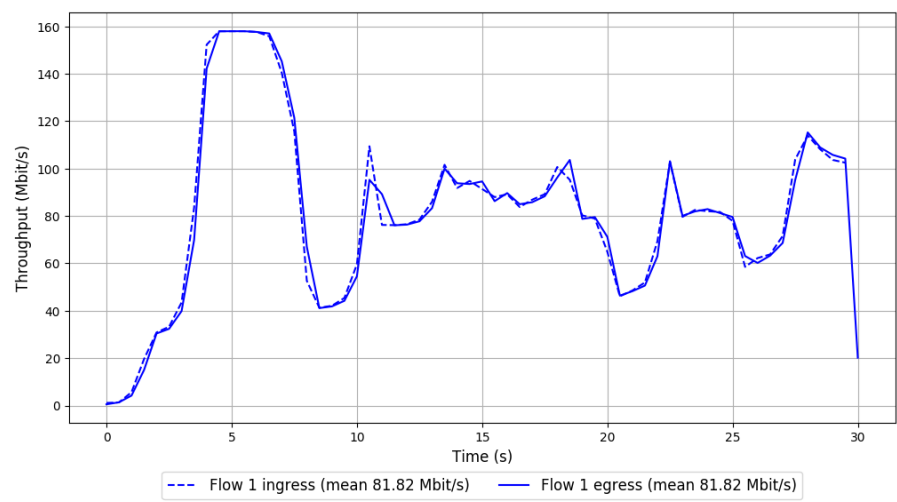
-- Flow 1:

Average throughput: 81.82 Mbit/s

95th percentile per-packet one-way delay: 112.595 ms

Loss rate: 0.00%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-03-26 22:54:06

End at: 2018-03-26 22:54:36

Below is generated by plot.py at 2018-03-27 02:42:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.18 Mbit/s

95th percentile per-packet one-way delay: 111.746 ms

Loss rate: 0.00%

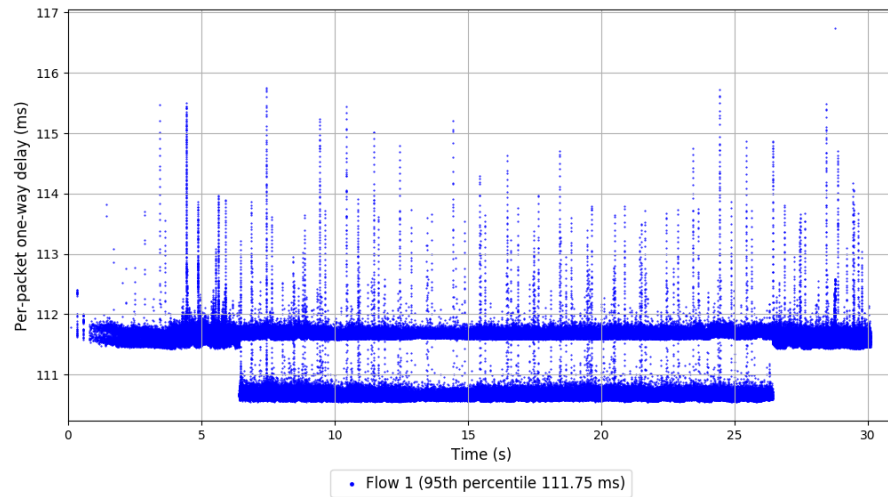
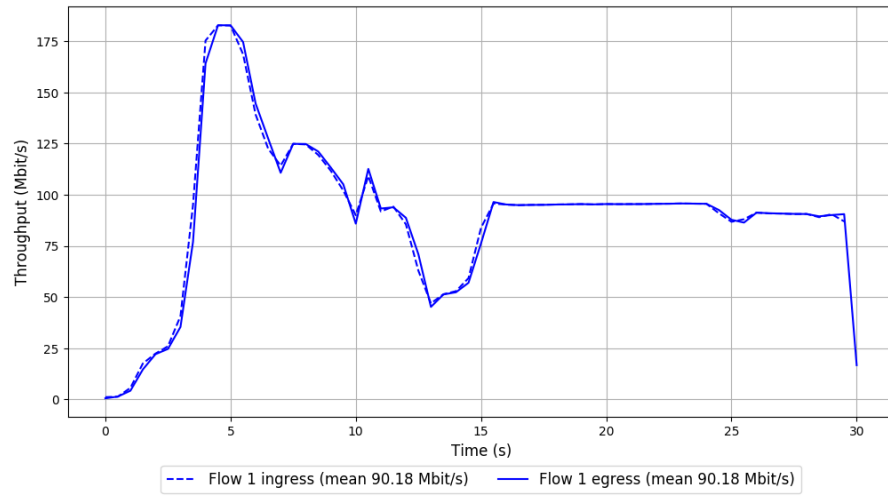
-- Flow 1:

Average throughput: 90.18 Mbit/s

95th percentile per-packet one-way delay: 111.746 ms

Loss rate: 0.00%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-03-26 23:09:48

End at: 2018-03-26 23:10:18

Below is generated by plot.py at 2018-03-27 02:42:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.78 Mbit/s

95th percentile per-packet one-way delay: 112.553 ms

Loss rate: 0.00%

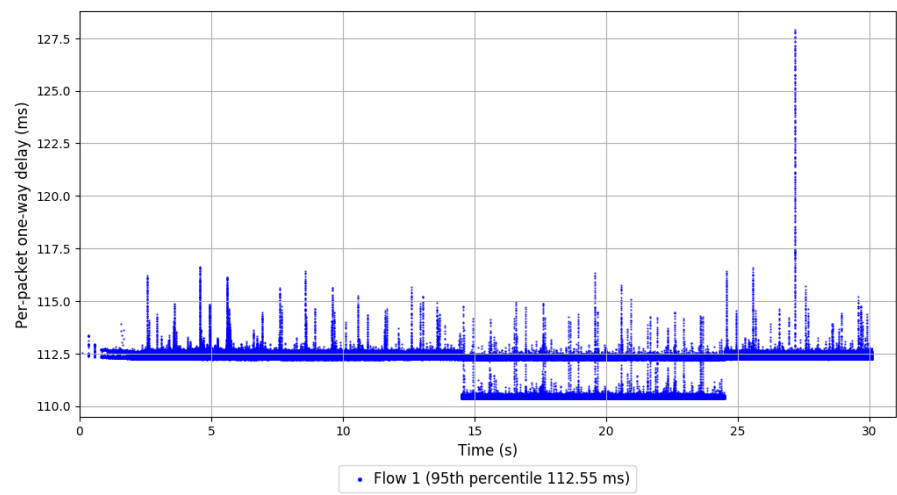
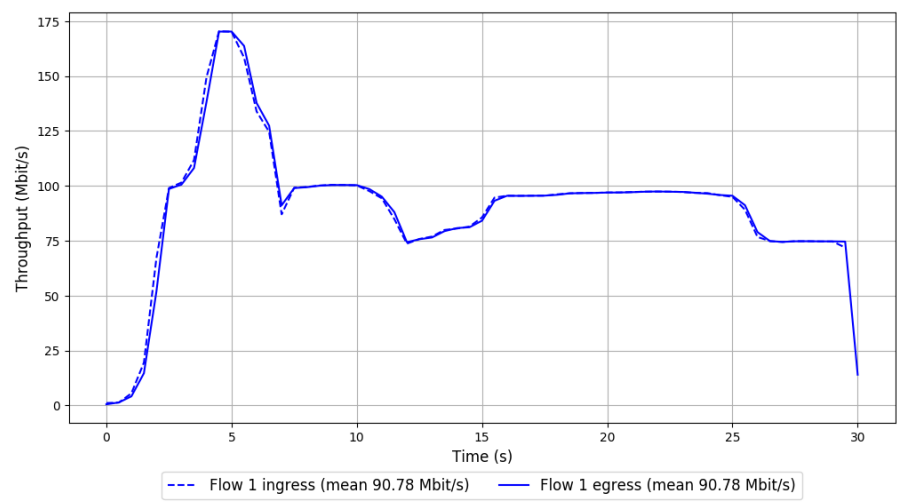
-- Flow 1:

Average throughput: 90.78 Mbit/s

95th percentile per-packet one-way delay: 112.553 ms

Loss rate: 0.00%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-03-26 23:25:10

End at: 2018-03-26 23:25:40

Below is generated by plot.py at 2018-03-27 02:42:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.86 Mbit/s

95th percentile per-packet one-way delay: 112.657 ms

Loss rate: 0.00%

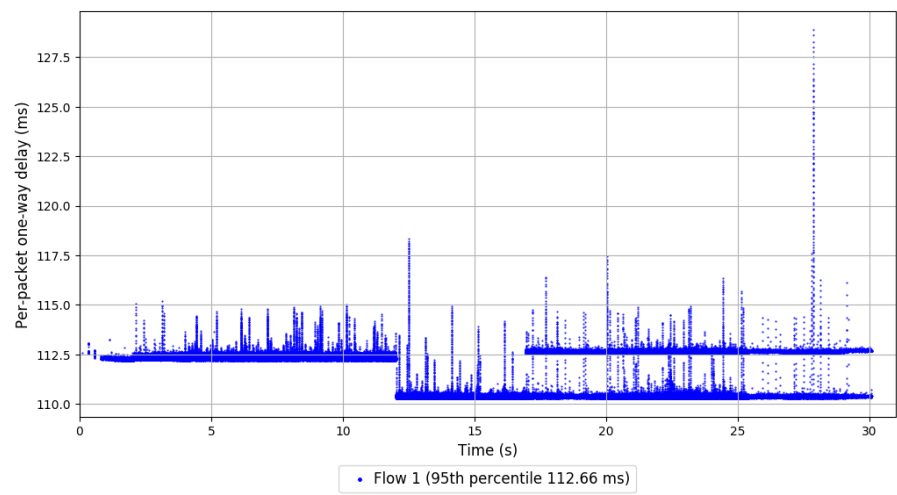
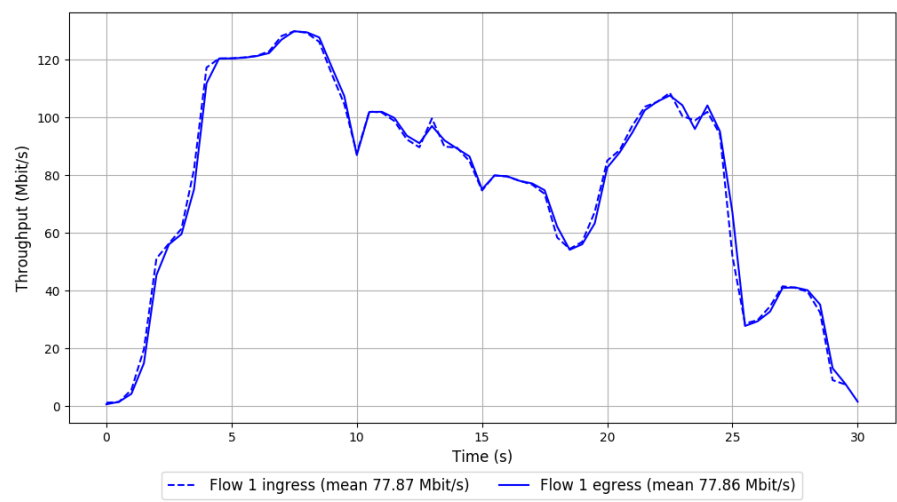
-- Flow 1:

Average throughput: 77.86 Mbit/s

95th percentile per-packet one-way delay: 112.657 ms

Loss rate: 0.00%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-03-26 23:40:39

End at: 2018-03-26 23:41:09

Below is generated by plot.py at 2018-03-27 02:43:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.10 Mbit/s

95th percentile per-packet one-way delay: 112.666 ms

Loss rate: 0.00%

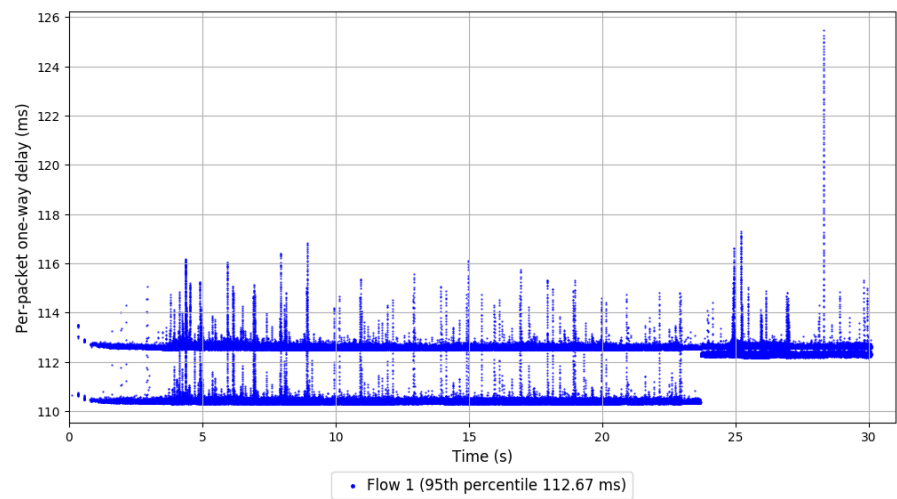
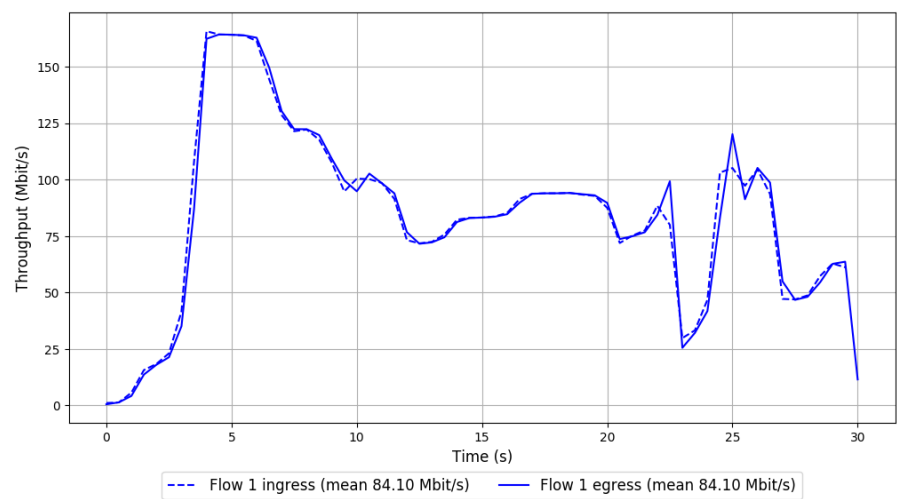
-- Flow 1:

Average throughput: 84.10 Mbit/s

95th percentile per-packet one-way delay: 112.666 ms

Loss rate: 0.00%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-03-26 23:56:28

End at: 2018-03-26 23:56:58

Below is generated by plot.py at 2018-03-27 02:44:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.62 Mbit/s

95th percentile per-packet one-way delay: 112.334 ms

Loss rate: 0.00%

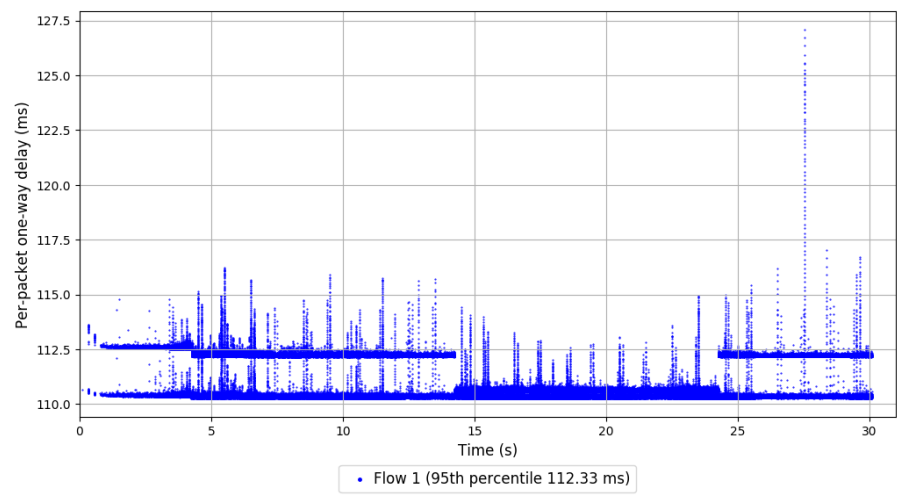
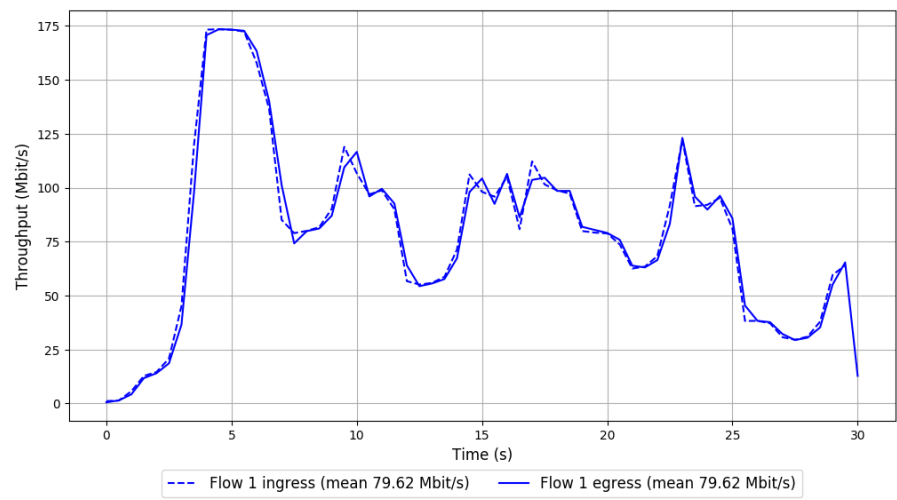
-- Flow 1:

Average throughput: 79.62 Mbit/s

95th percentile per-packet one-way delay: 112.334 ms

Loss rate: 0.00%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-03-27 00:11:49

End at: 2018-03-27 00:12:19

Below is generated by plot.py at 2018-03-27 02:44:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.56 Mbit/s

95th percentile per-packet one-way delay: 112.762 ms

Loss rate: 0.00%

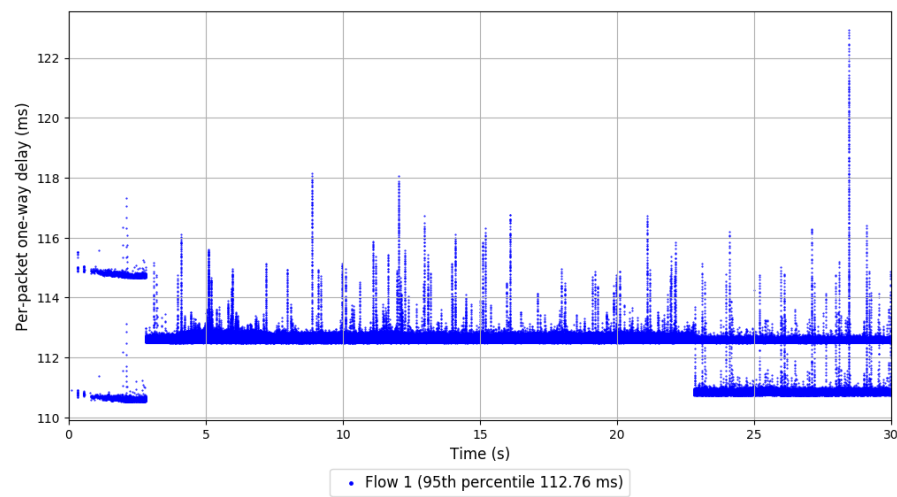
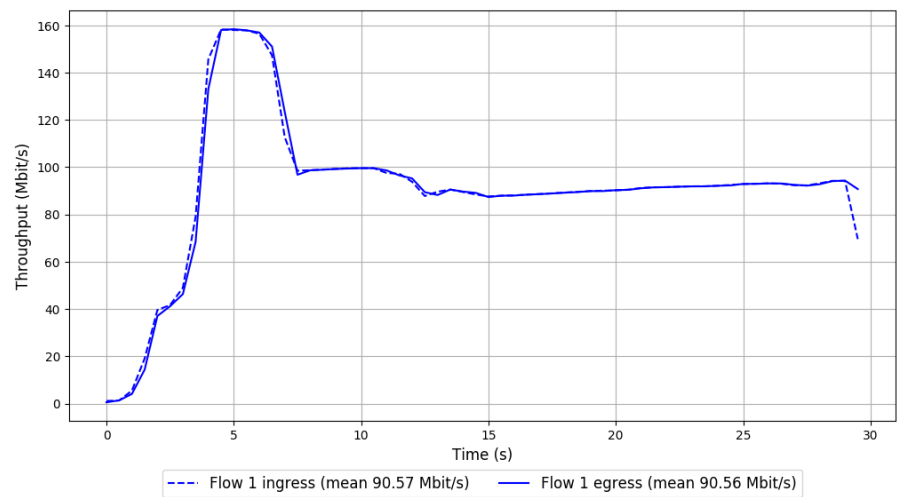
-- Flow 1:

Average throughput: 90.56 Mbit/s

95th percentile per-packet one-way delay: 112.762 ms

Loss rate: 0.00%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-03-27 00:27:09

End at: 2018-03-27 00:27:39

Below is generated by plot.py at 2018-03-27 02:44:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.56 Mbit/s

95th percentile per-packet one-way delay: 112.825 ms

Loss rate: 0.00%

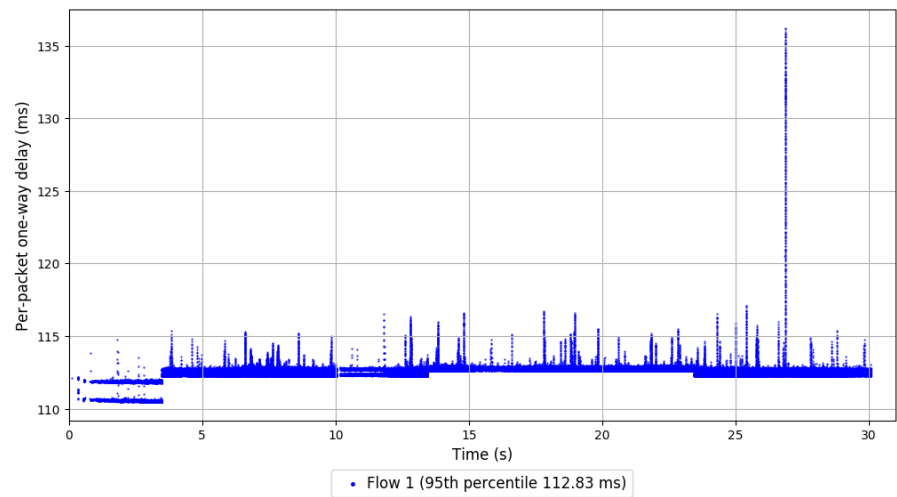
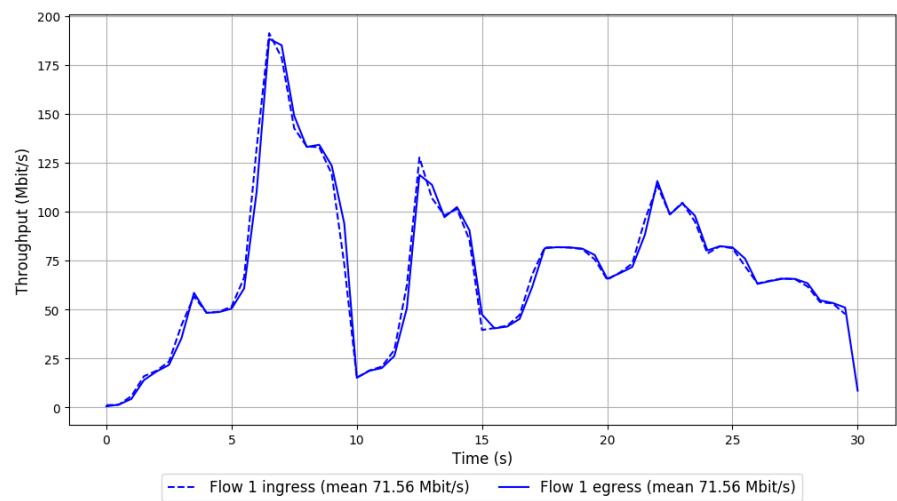
-- Flow 1:

Average throughput: 71.56 Mbit/s

95th percentile per-packet one-way delay: 112.825 ms

Loss rate: 0.00%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-03-27 00:42:42

End at: 2018-03-27 00:43:12

Below is generated by plot.py at 2018-03-27 02:44:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.06 Mbit/s

95th percentile per-packet one-way delay: 112.628 ms

Loss rate: 0.00%

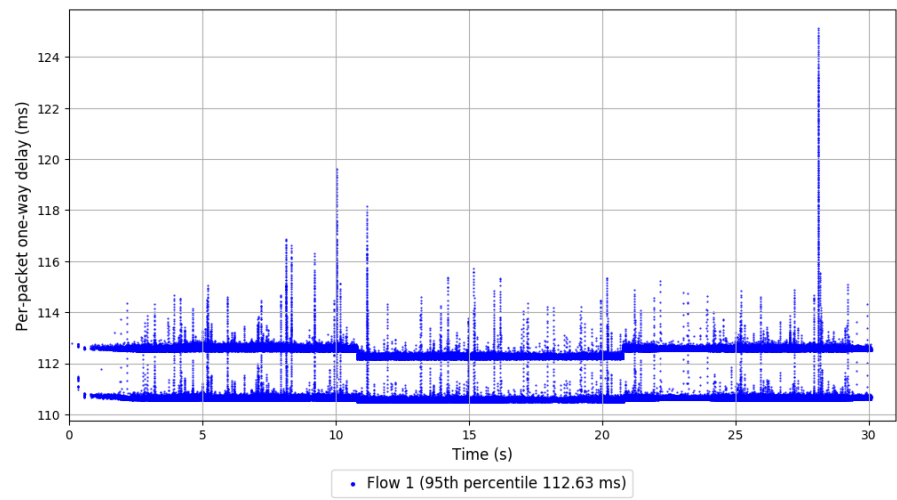
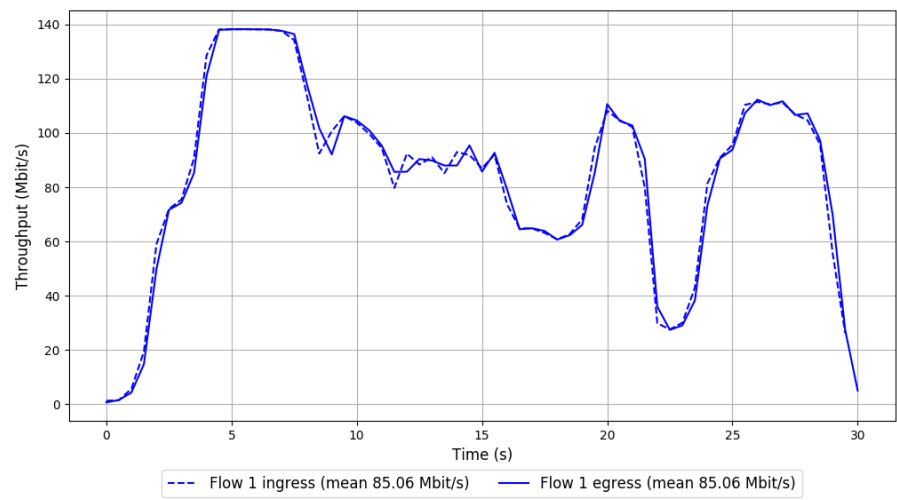
-- Flow 1:

Average throughput: 85.06 Mbit/s

95th percentile per-packet one-way delay: 112.628 ms

Loss rate: 0.00%

Run 10: Report of Copa — Data Link

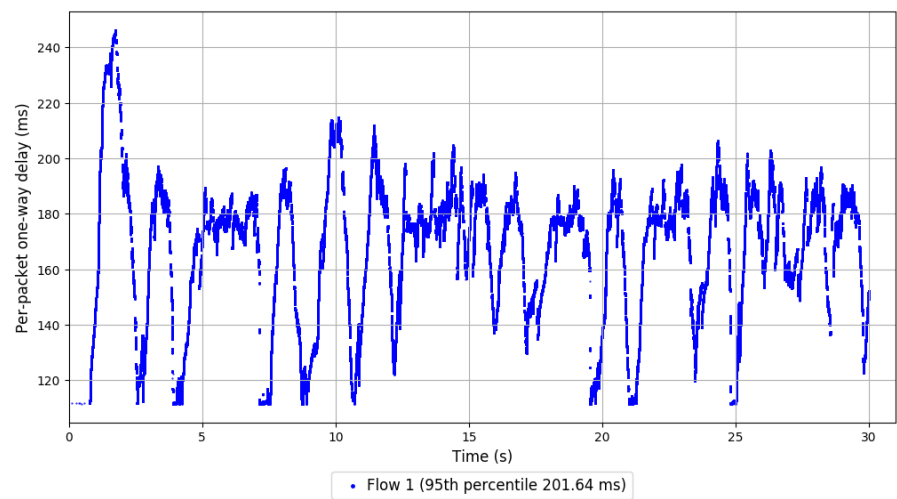
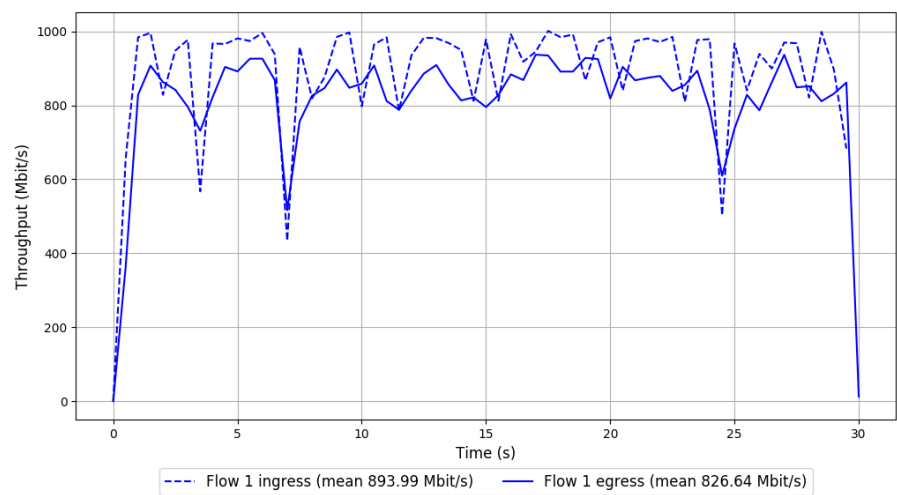


```
Run 1: Statistics of FillP

Start at: 2018-03-26 22:31:36
End at: 2018-03-26 22:32:06

# Below is generated by plot.py at 2018-03-27 02:58:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 826.64 Mbit/s
95th percentile per-packet one-way delay: 201.643 ms
Loss rate: 7.53%
-- Flow 1:
Average throughput: 826.64 Mbit/s
95th percentile per-packet one-way delay: 201.643 ms
Loss rate: 7.53%
```

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-03-26 22:47:02

End at: 2018-03-26 22:47:32

Below is generated by plot.py at 2018-03-27 02:58:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 820.94 Mbit/s

95th percentile per-packet one-way delay: 250.289 ms

Loss rate: 8.38%

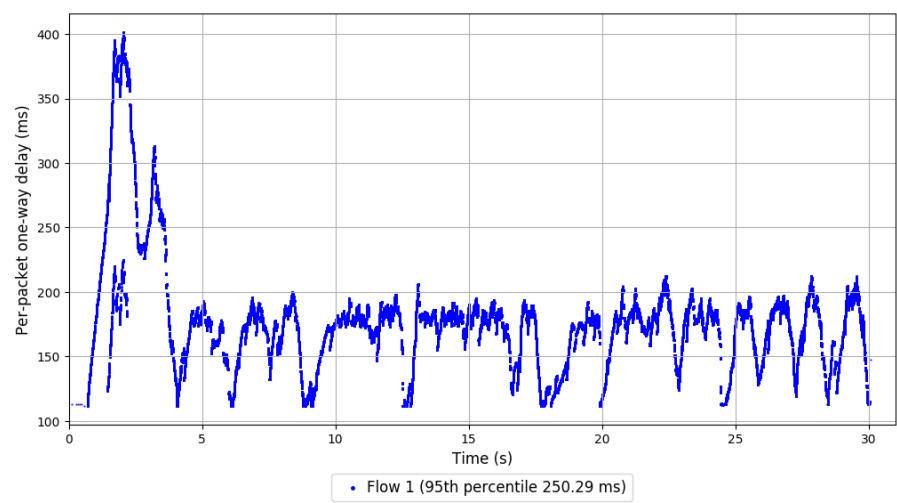
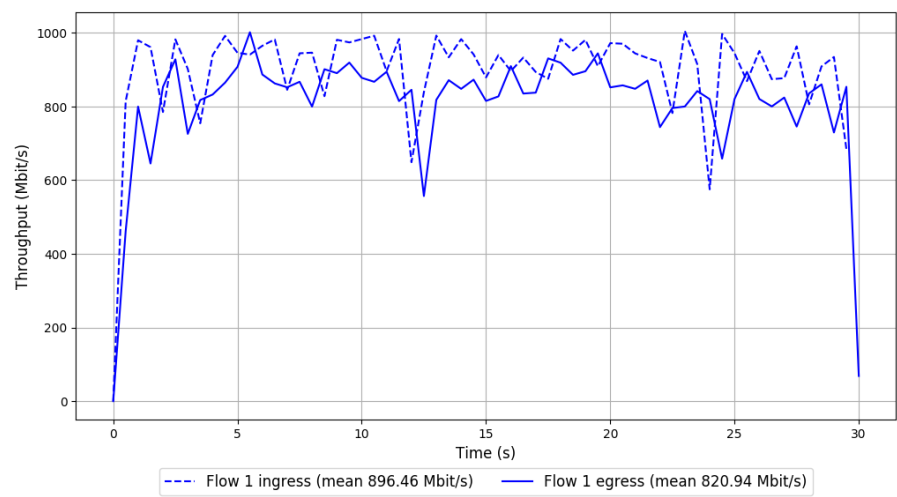
-- Flow 1:

Average throughput: 820.94 Mbit/s

95th percentile per-packet one-way delay: 250.289 ms

Loss rate: 8.38%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-03-26 23:02:46

End at: 2018-03-26 23:03:16

Below is generated by plot.py at 2018-03-27 02:58:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 807.90 Mbit/s

95th percentile per-packet one-way delay: 272.654 ms

Loss rate: 9.37%

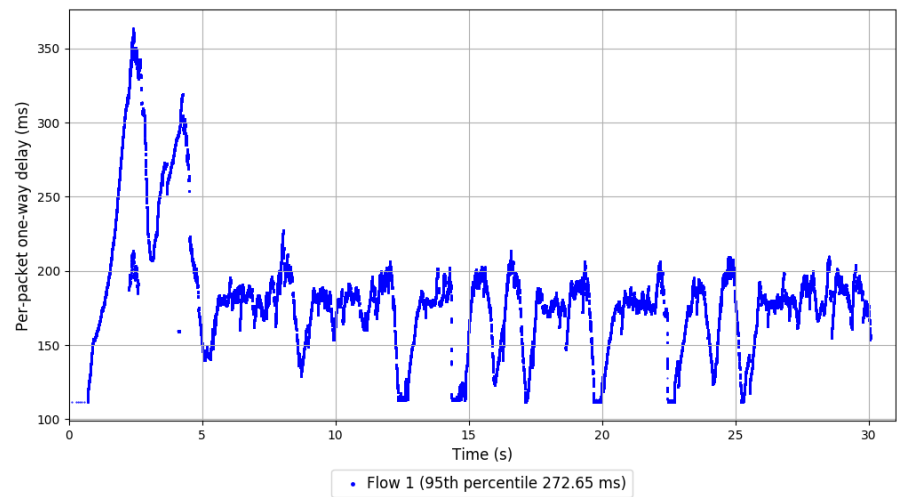
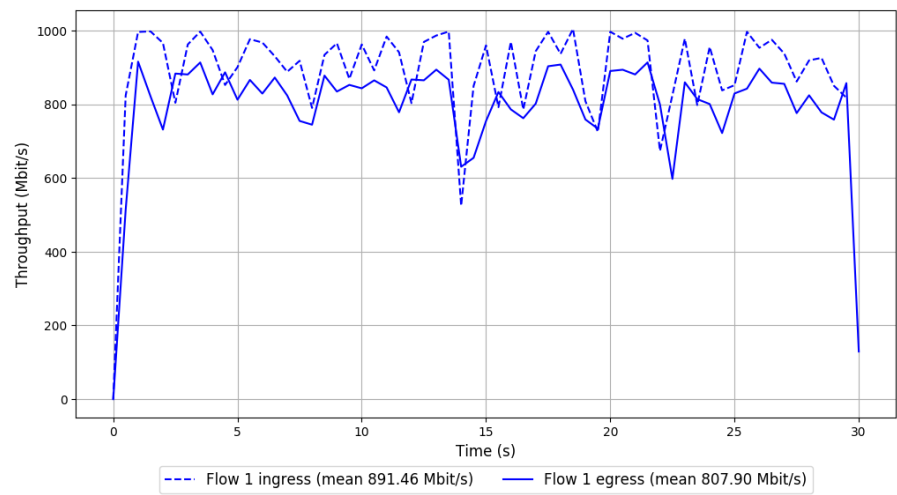
-- Flow 1:

Average throughput: 807.90 Mbit/s

95th percentile per-packet one-way delay: 272.654 ms

Loss rate: 9.37%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-03-26 23:18:21

End at: 2018-03-26 23:18:51

Below is generated by plot.py at 2018-03-27 02:58:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 826.03 Mbit/s

95th percentile per-packet one-way delay: 246.687 ms

Loss rate: 6.58%

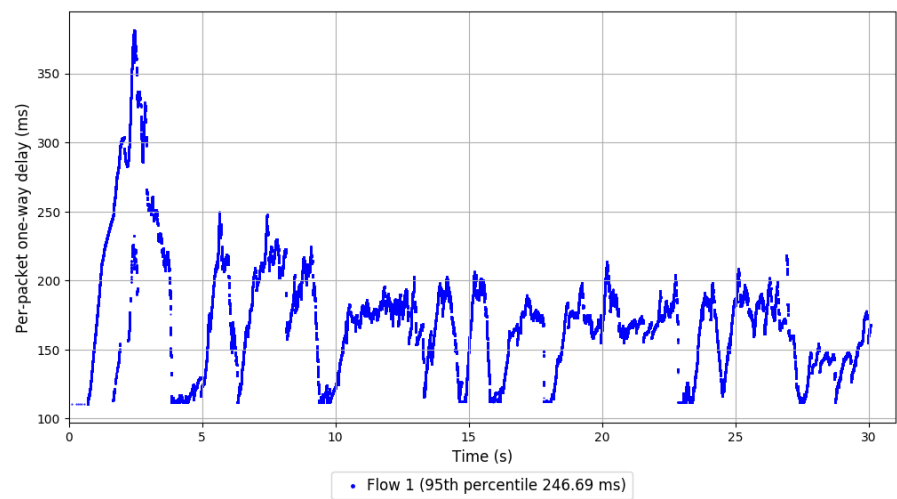
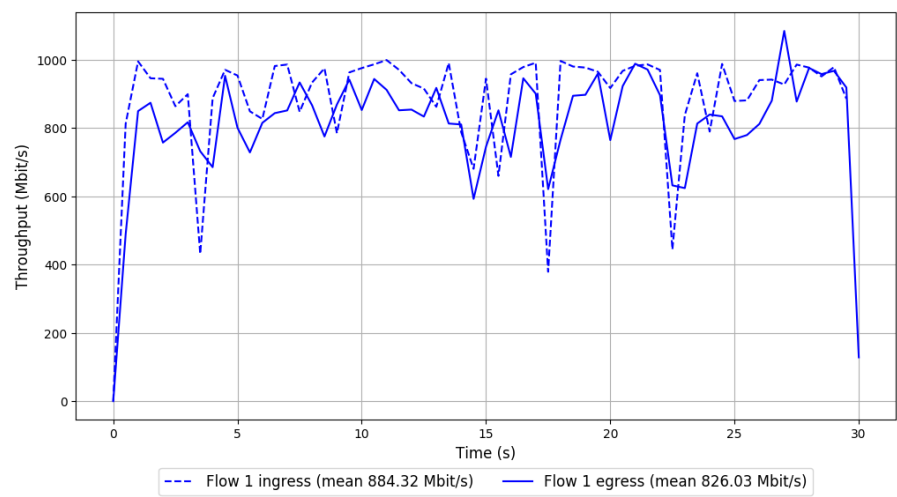
-- Flow 1:

Average throughput: 826.03 Mbit/s

95th percentile per-packet one-way delay: 246.687 ms

Loss rate: 6.58%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-03-26 23:33:45

End at: 2018-03-26 23:34:15

Below is generated by plot.py at 2018-03-27 02:59:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 862.79 Mbit/s

95th percentile per-packet one-way delay: 190.368 ms

Loss rate: 5.75%

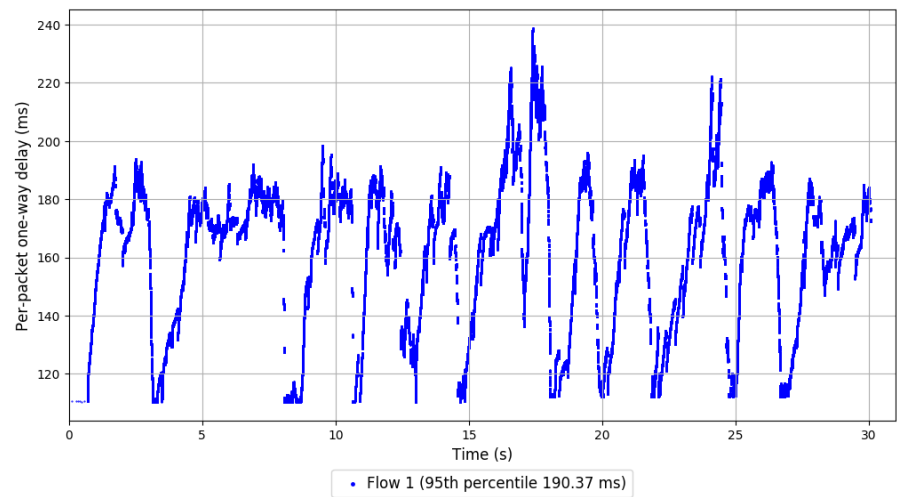
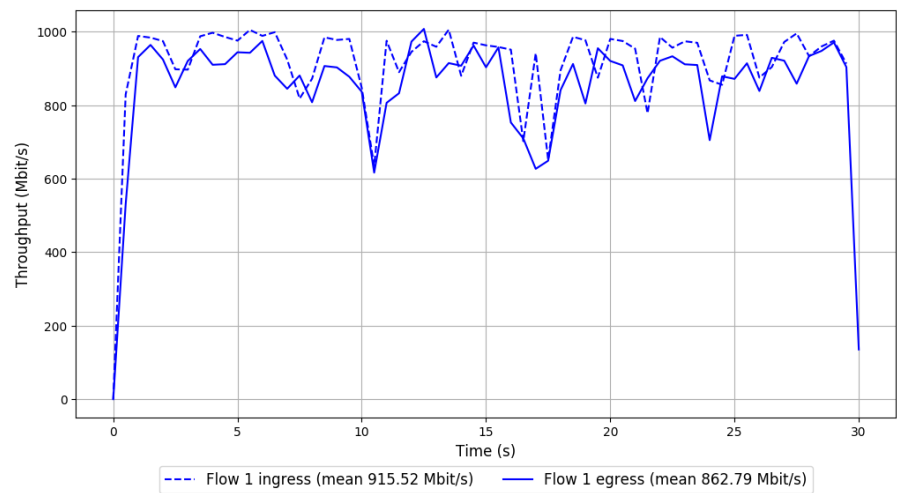
-- Flow 1:

Average throughput: 862.79 Mbit/s

95th percentile per-packet one-way delay: 190.368 ms

Loss rate: 5.75%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-03-26 23:49:18

End at: 2018-03-26 23:49:48

Below is generated by plot.py at 2018-03-27 02:59:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 869.15 Mbit/s

95th percentile per-packet one-way delay: 316.487 ms

Loss rate: 5.29%

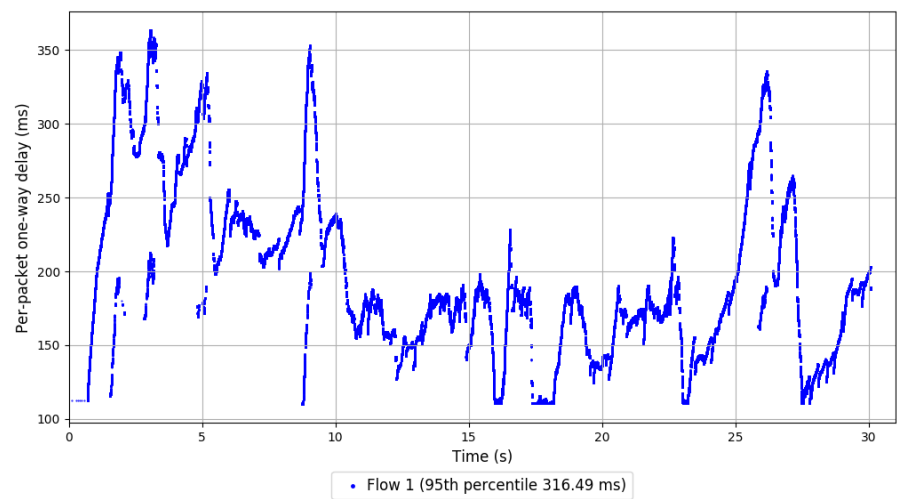
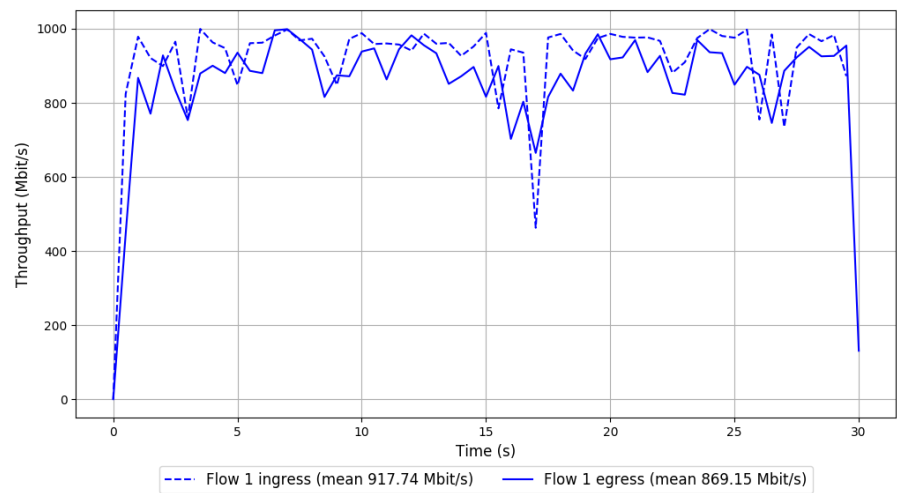
-- Flow 1:

Average throughput: 869.15 Mbit/s

95th percentile per-packet one-way delay: 316.487 ms

Loss rate: 5.29%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-03-27 00:05:00

End at: 2018-03-27 00:05:30

Below is generated by plot.py at 2018-03-27 02:59:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 836.44 Mbit/s

95th percentile per-packet one-way delay: 194.959 ms

Loss rate: 7.37%

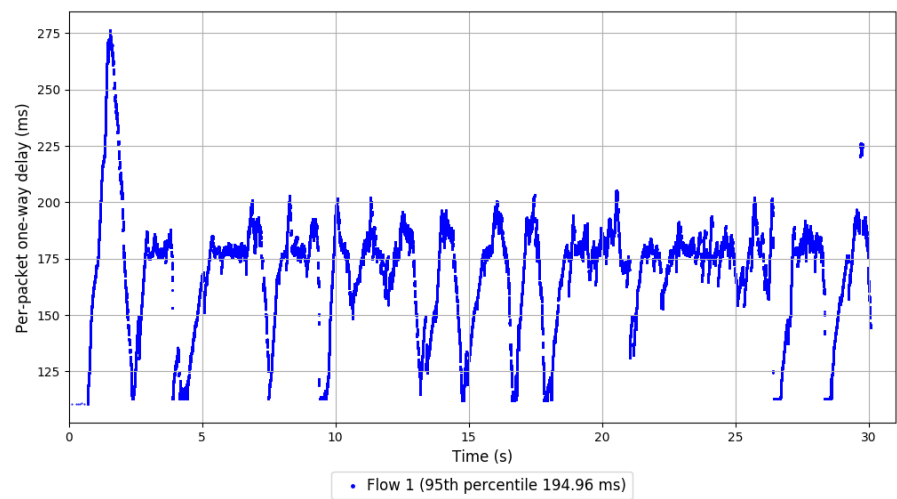
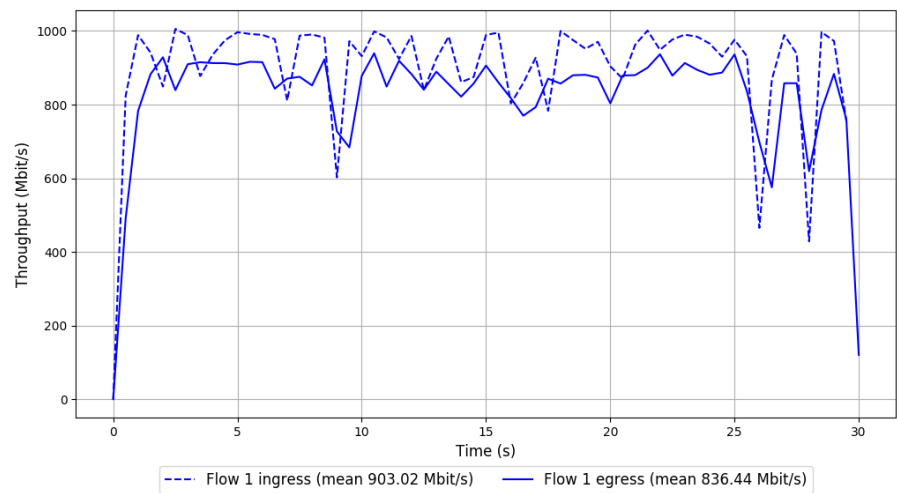
-- Flow 1:

Average throughput: 836.44 Mbit/s

95th percentile per-packet one-way delay: 194.959 ms

Loss rate: 7.37%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-03-27 00:20:13

End at: 2018-03-27 00:20:43

Below is generated by plot.py at 2018-03-27 02:59:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 725.79 Mbit/s

95th percentile per-packet one-way delay: 220.105 ms

Loss rate: 13.41%

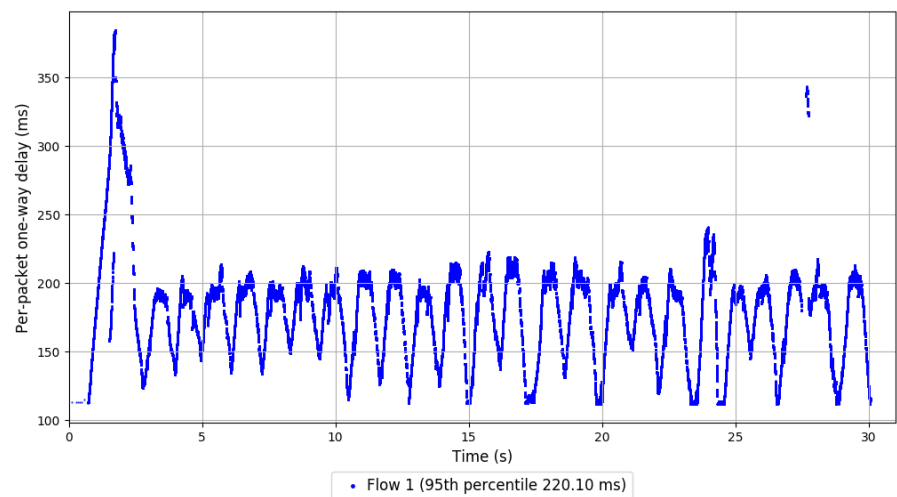
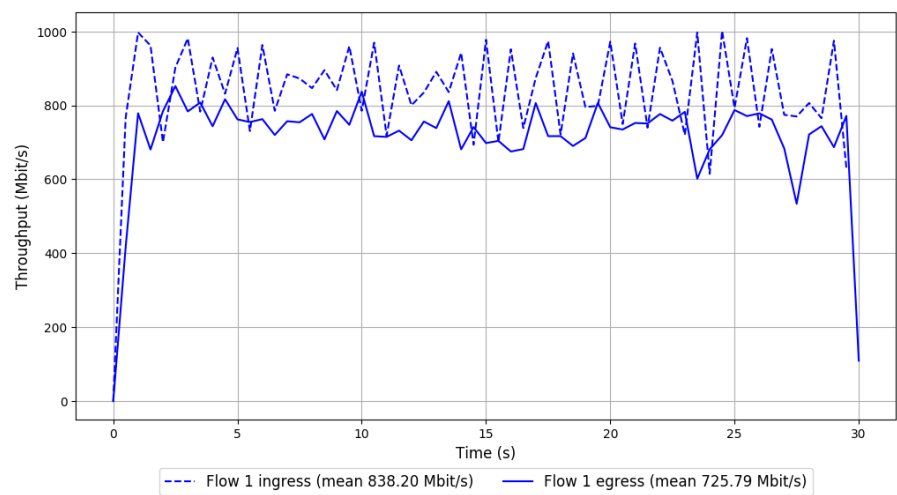
-- Flow 1:

Average throughput: 725.79 Mbit/s

95th percentile per-packet one-way delay: 220.105 ms

Loss rate: 13.41%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-03-27 00:35:49

End at: 2018-03-27 00:36:19

Below is generated by plot.py at 2018-03-27 03:12:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 816.65 Mbit/s

95th percentile per-packet one-way delay: 203.755 ms

Loss rate: 8.88%

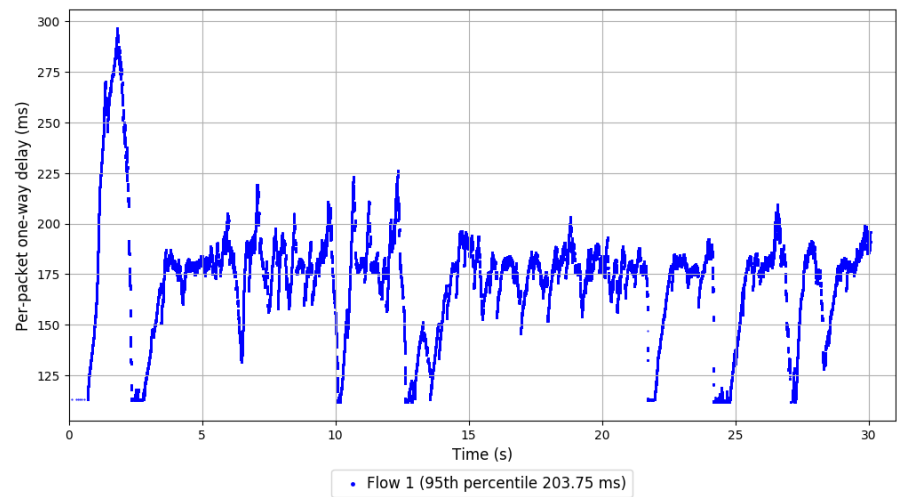
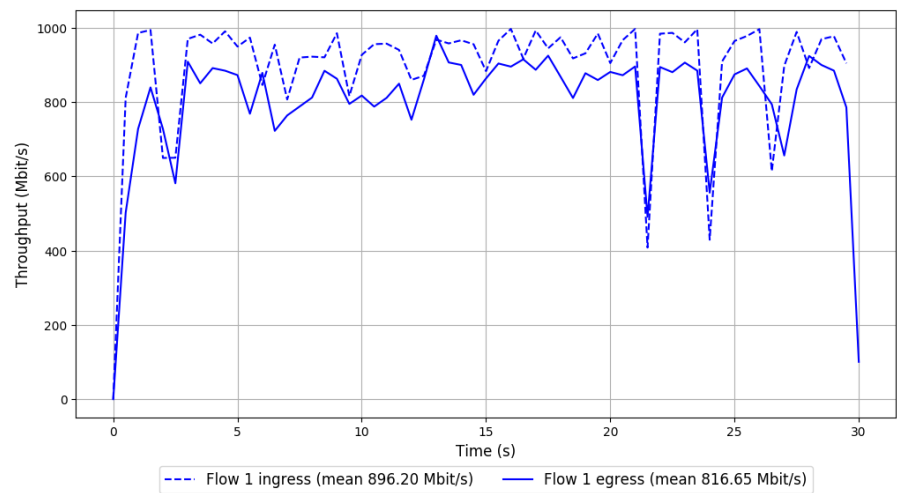
-- Flow 1:

Average throughput: 816.65 Mbit/s

95th percentile per-packet one-way delay: 203.755 ms

Loss rate: 8.88%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-03-27 00:51:23

End at: 2018-03-27 00:51:53

Below is generated by plot.py at 2018-03-27 03:13:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 829.46 Mbit/s

95th percentile per-packet one-way delay: 312.457 ms

Loss rate: 6.42%

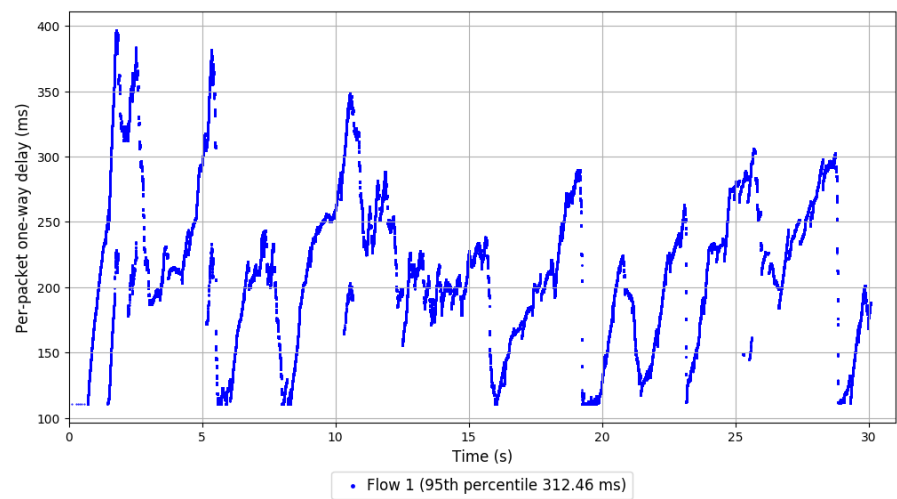
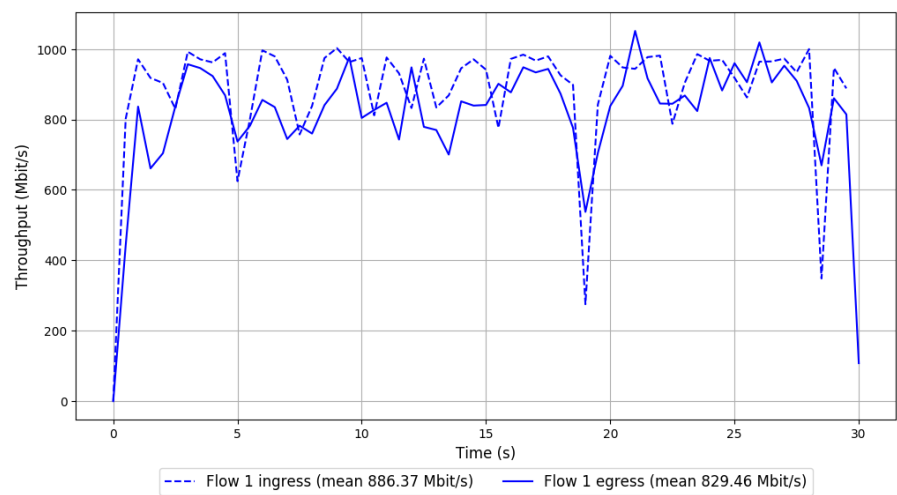
-- Flow 1:

Average throughput: 829.46 Mbit/s

95th percentile per-packet one-way delay: 312.457 ms

Loss rate: 6.42%

Run 10: Report of FillP — Data Link

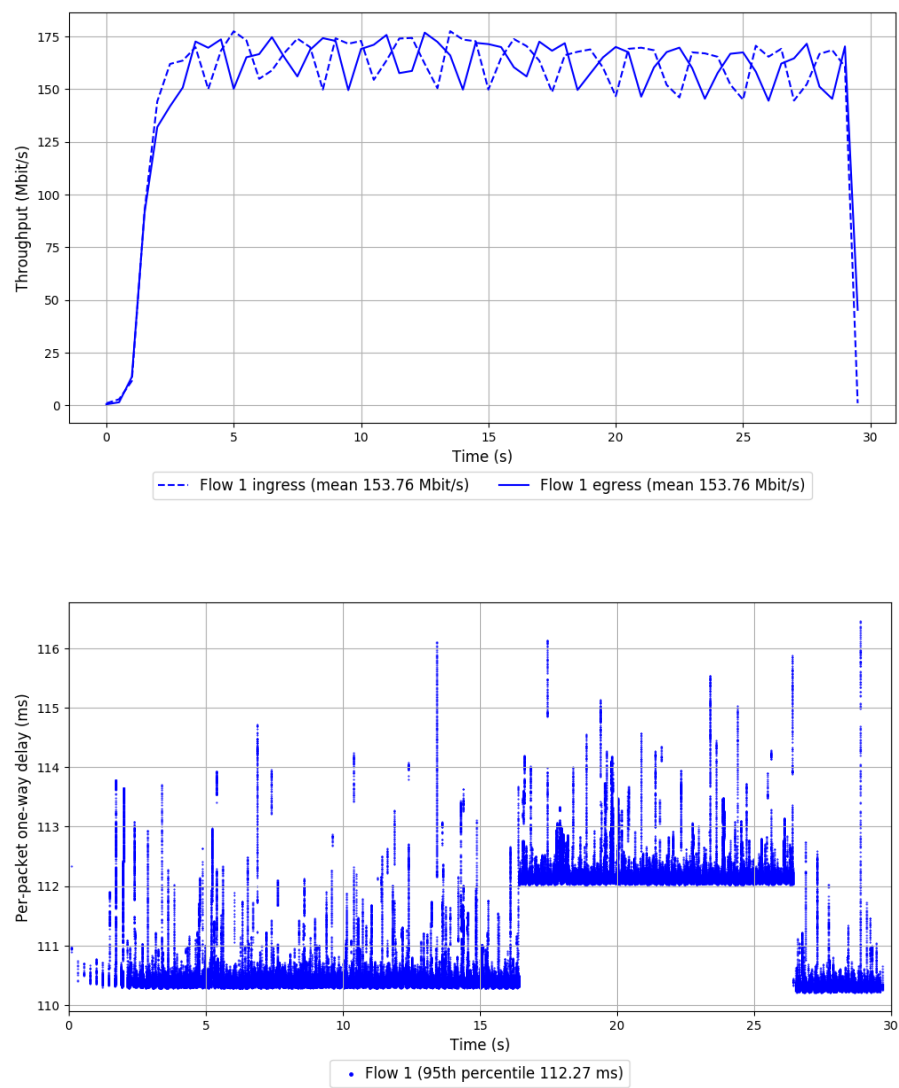


```
Run 1: Statistics of Indigo-1-32

Start at: 2018-03-26 22:21:25
End at: 2018-03-26 22:21:56

# Below is generated by plot.py at 2018-03-27 03:13:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 153.76 Mbit/s
95th percentile per-packet one-way delay: 112.272 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 153.76 Mbit/s
95th percentile per-packet one-way delay: 112.272 ms
Loss rate: 0.00%
```

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



Run 2: Statistics of Indigo-1-32

Start at: 2018-03-26 22:37:05

End at: 2018-03-26 22:37:35

Below is generated by plot.py at 2018-03-27 03:13:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 152.06 Mbit/s

95th percentile per-packet one-way delay: 111.842 ms

Loss rate: 0.00%

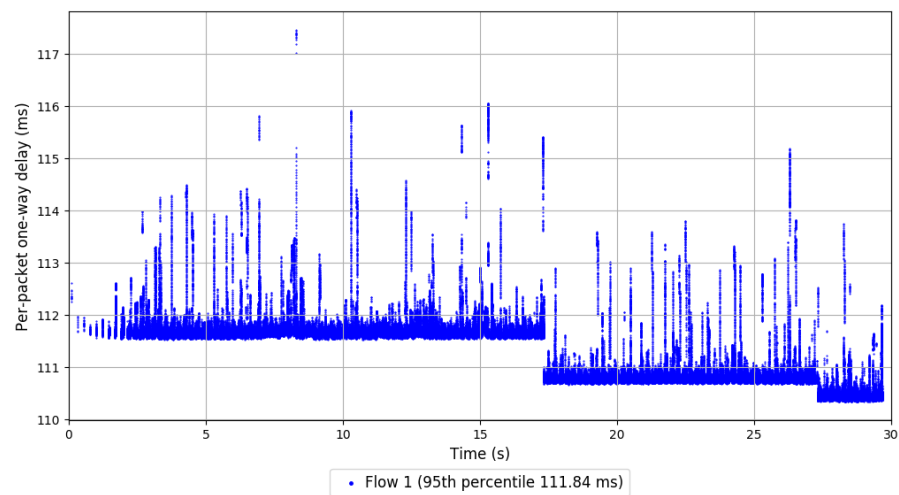
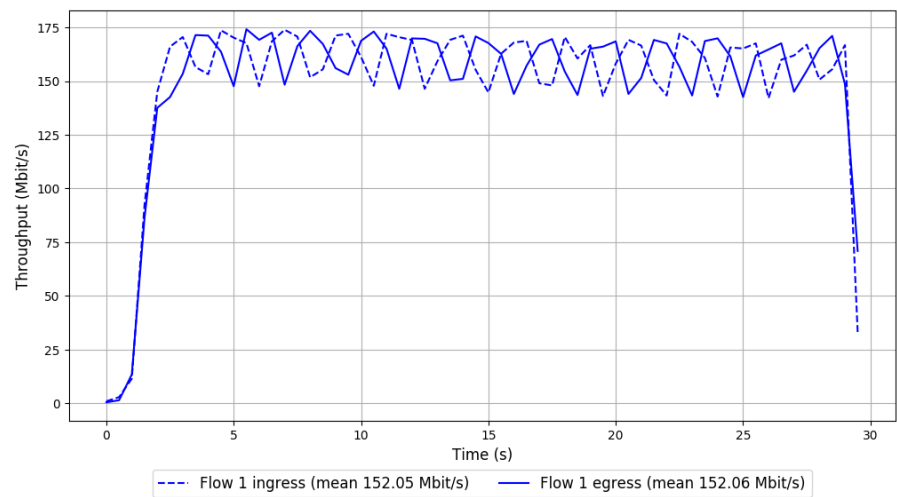
-- Flow 1:

Average throughput: 152.06 Mbit/s

95th percentile per-packet one-way delay: 111.842 ms

Loss rate: 0.00%

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



Run 3: Statistics of Indigo-1-32

Start at: 2018-03-26 22:52:33

End at: 2018-03-26 22:53:03

Below is generated by plot.py at 2018-03-27 03:13:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 155.39 Mbit/s

95th percentile per-packet one-way delay: 111.782 ms

Loss rate: 0.00%

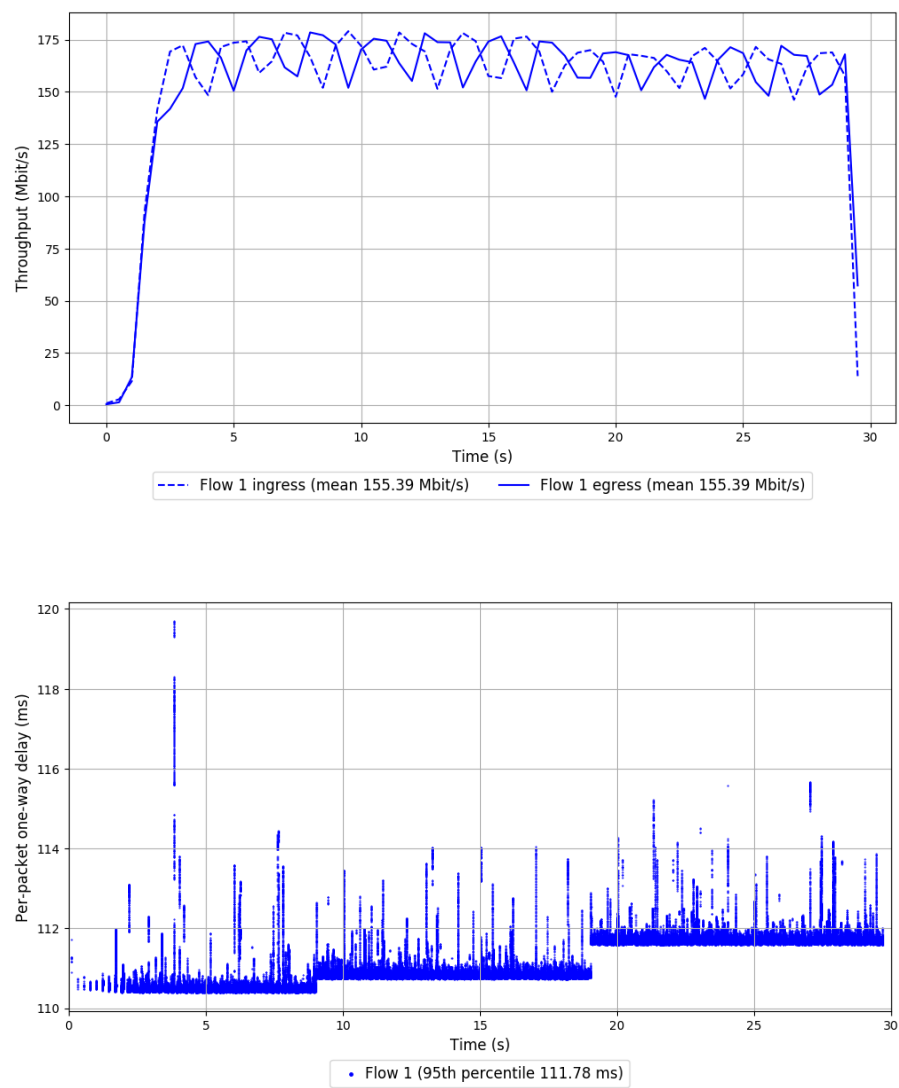
-- Flow 1:

Average throughput: 155.39 Mbit/s

95th percentile per-packet one-way delay: 111.782 ms

Loss rate: 0.00%

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



Run 4: Statistics of Indigo-1-32

Start at: 2018-03-26 23:08:11

End at: 2018-03-26 23:08:41

Below is generated by plot.py at 2018-03-27 03:13:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 209.73 Mbit/s

95th percentile per-packet one-way delay: 112.689 ms

Loss rate: 0.00%

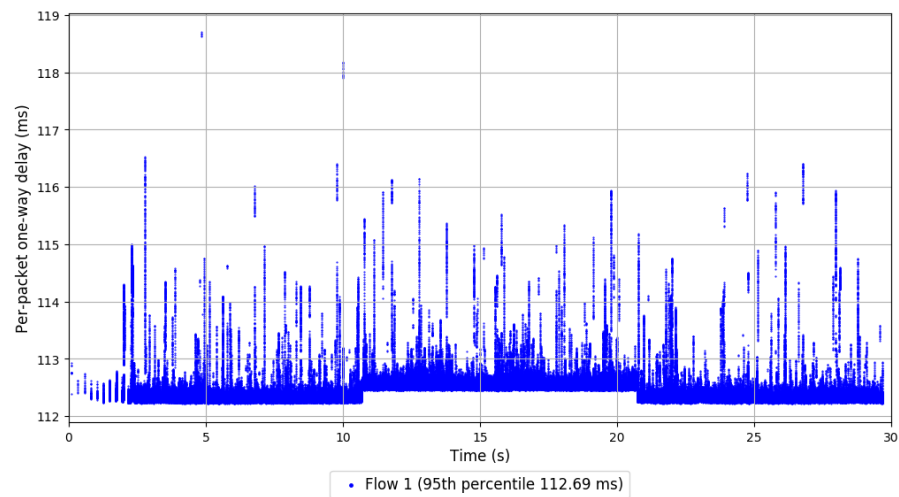
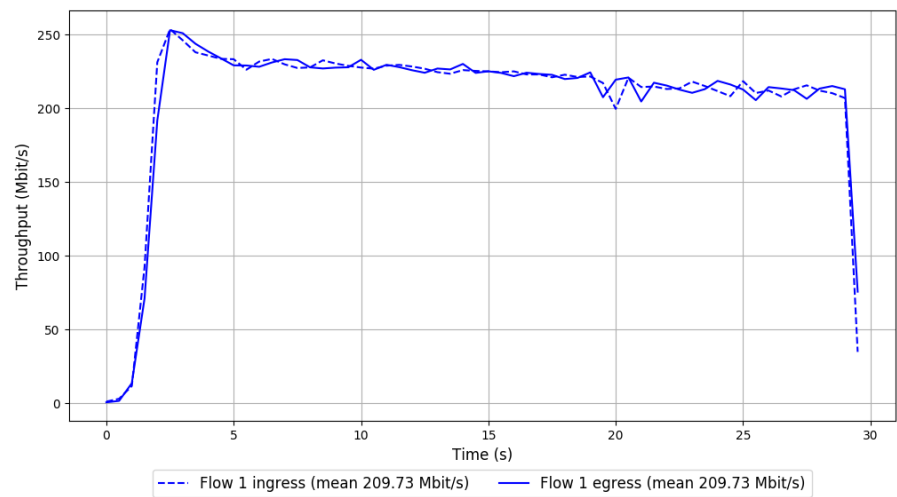
-- Flow 1:

Average throughput: 209.73 Mbit/s

95th percentile per-packet one-way delay: 112.689 ms

Loss rate: 0.00%

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



Run 5: Statistics of Indigo-1-32

Start at: 2018-03-26 23:23:37

End at: 2018-03-26 23:24:07

Below is generated by plot.py at 2018-03-27 03:13:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 157.06 Mbit/s

95th percentile per-packet one-way delay: 112.682 ms

Loss rate: 0.00%

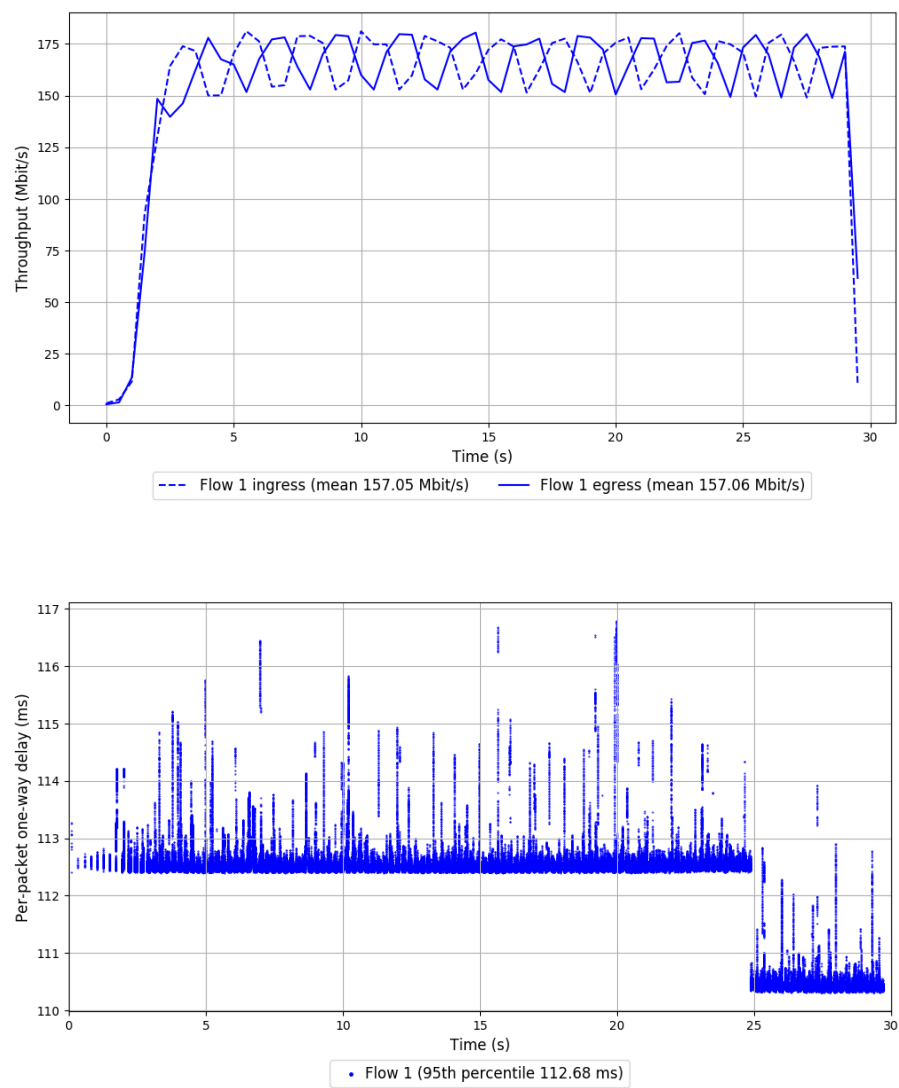
-- Flow 1:

Average throughput: 157.06 Mbit/s

95th percentile per-packet one-way delay: 112.682 ms

Loss rate: 0.00%

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



Run 6: Statistics of Indigo-1-32

Start at: 2018-03-26 23:39:02

End at: 2018-03-26 23:39:32

Below is generated by plot.py at 2018-03-27 03:13:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 213.17 Mbit/s

95th percentile per-packet one-way delay: 112.783 ms

Loss rate: 0.00%

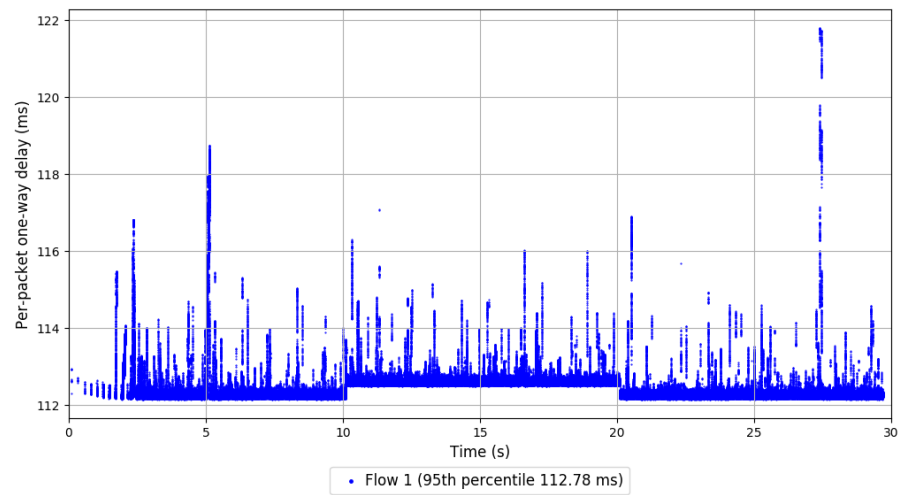
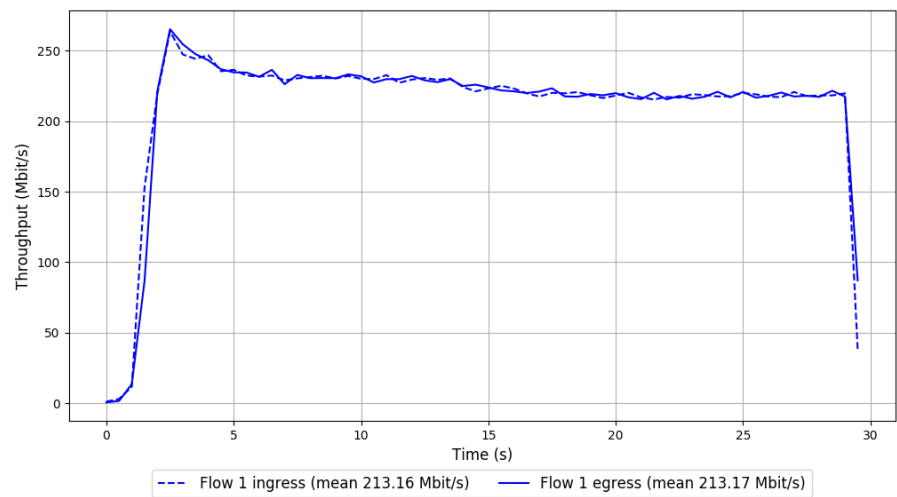
-- Flow 1:

Average throughput: 213.17 Mbit/s

95th percentile per-packet one-way delay: 112.783 ms

Loss rate: 0.00%

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



Run 7: Statistics of Indigo-1-32

Start at: 2018-03-26 23:54:52

End at: 2018-03-26 23:55:22

Below is generated by plot.py at 2018-03-27 03:13:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 205.07 Mbit/s

95th percentile per-packet one-way delay: 112.871 ms

Loss rate: 0.01%

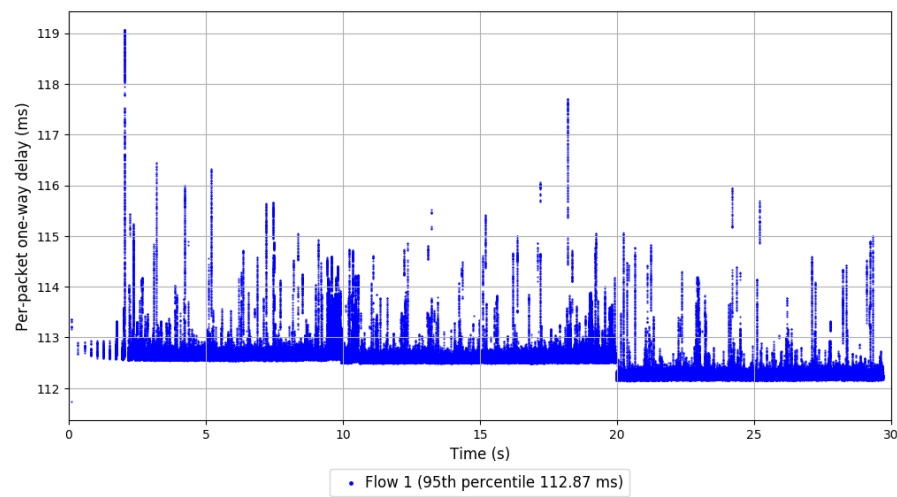
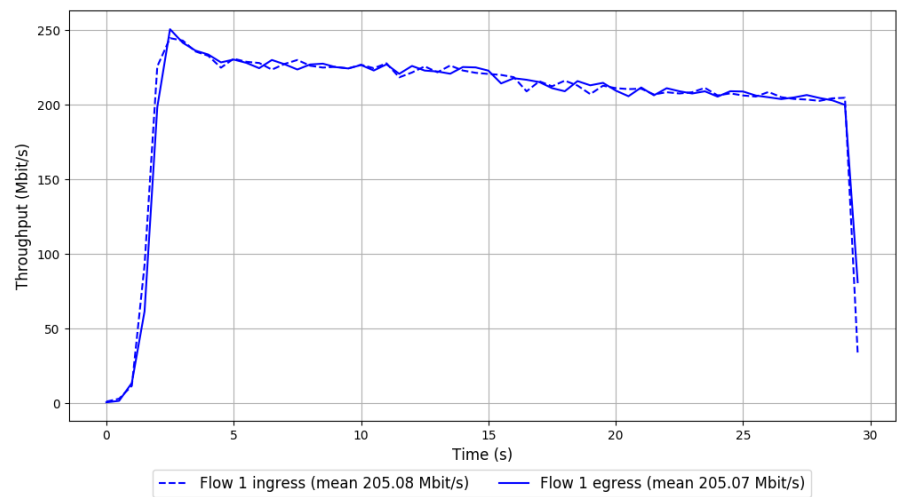
-- Flow 1:

Average throughput: 205.07 Mbit/s

95th percentile per-packet one-way delay: 112.871 ms

Loss rate: 0.01%

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



Run 8: Statistics of Indigo-1-32

Start at: 2018-03-27 00:10:16

End at: 2018-03-27 00:10:46

Below is generated by plot.py at 2018-03-27 03:13:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 157.47 Mbit/s

95th percentile per-packet one-way delay: 114.805 ms

Loss rate: 0.00%

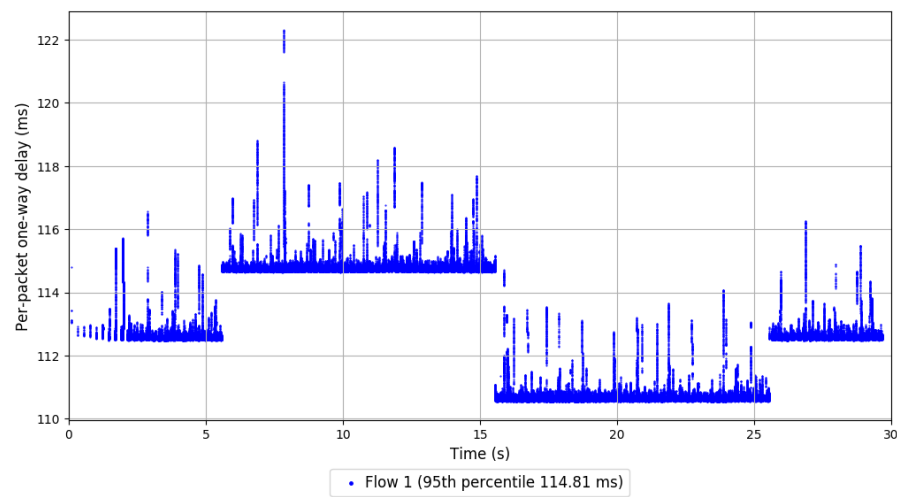
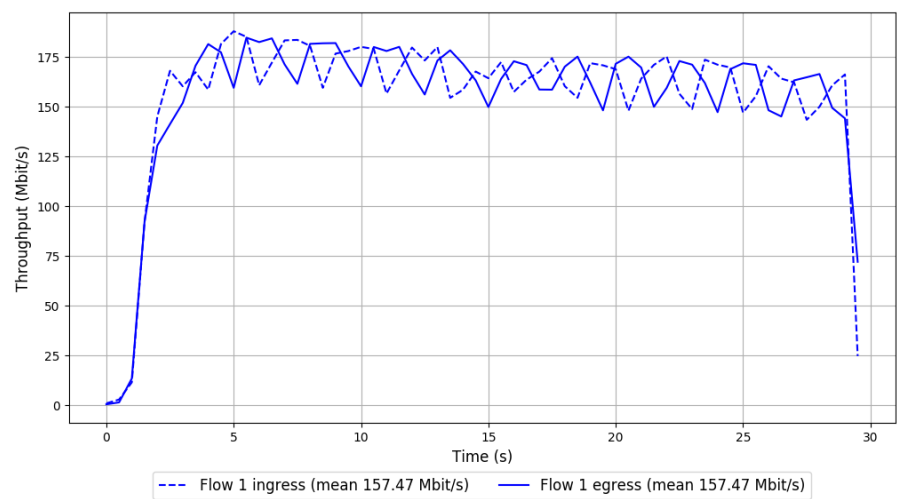
-- Flow 1:

Average throughput: 157.47 Mbit/s

95th percentile per-packet one-way delay: 114.805 ms

Loss rate: 0.00%

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



Run 9: Statistics of Indigo-1-32

Start at: 2018-03-27 00:25:36

End at: 2018-03-27 00:26:06

Below is generated by plot.py at 2018-03-27 03:13:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 156.44 Mbit/s

95th percentile per-packet one-way delay: 112.865 ms

Loss rate: 0.00%

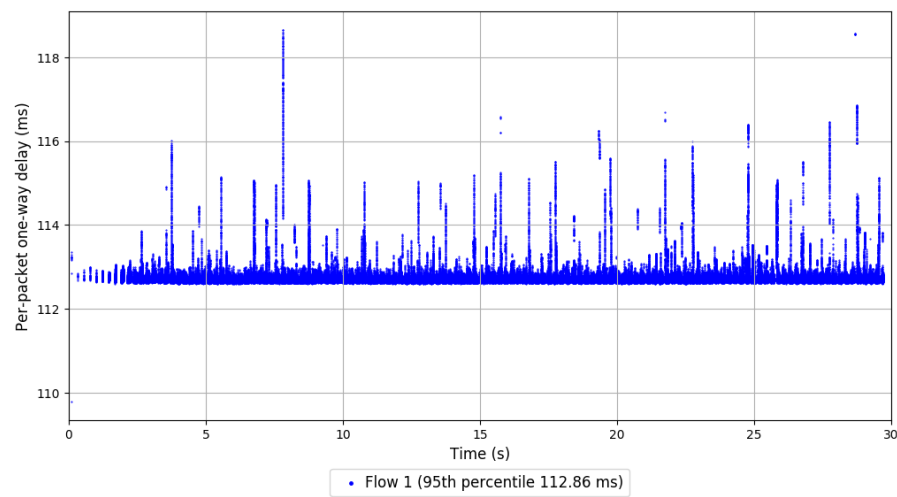
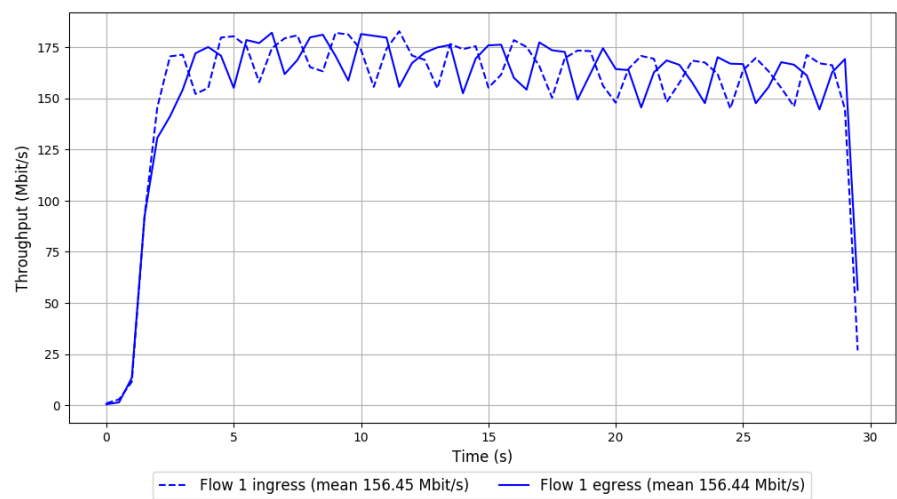
-- Flow 1:

Average throughput: 156.44 Mbit/s

95th percentile per-packet one-way delay: 112.865 ms

Loss rate: 0.00%

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



Run 10: Statistics of Indigo-1-32

Start at: 2018-03-27 00:41:05

End at: 2018-03-27 00:41:35

Below is generated by plot.py at 2018-03-27 03:13:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 208.23 Mbit/s

95th percentile per-packet one-way delay: 114.922 ms

Loss rate: 0.00%

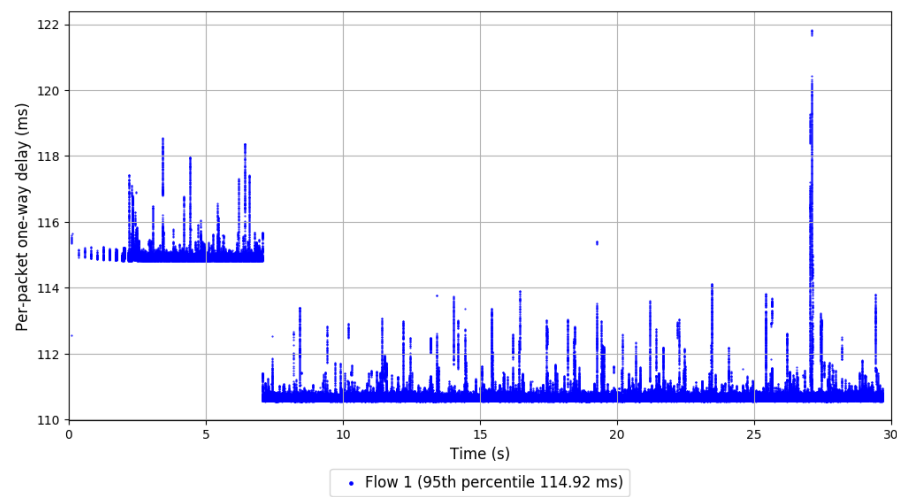
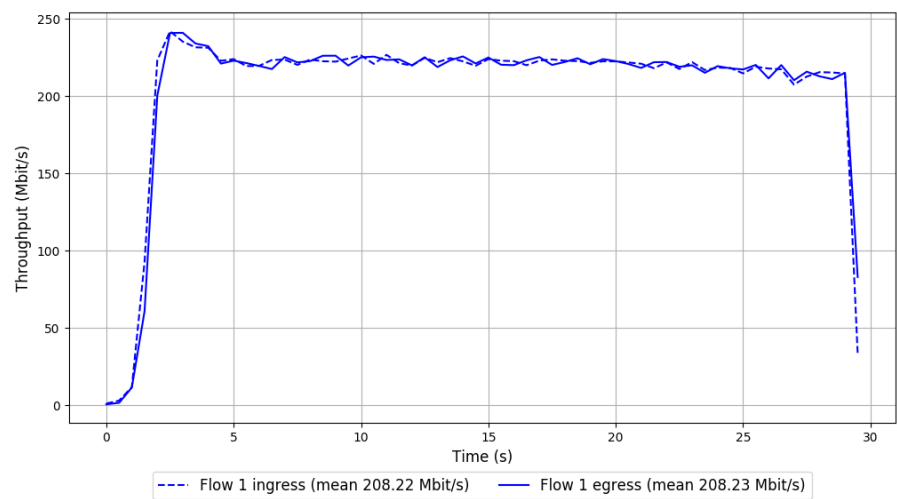
-- Flow 1:

Average throughput: 208.23 Mbit/s

95th percentile per-packet one-way delay: 114.922 ms

Loss rate: 0.00%

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

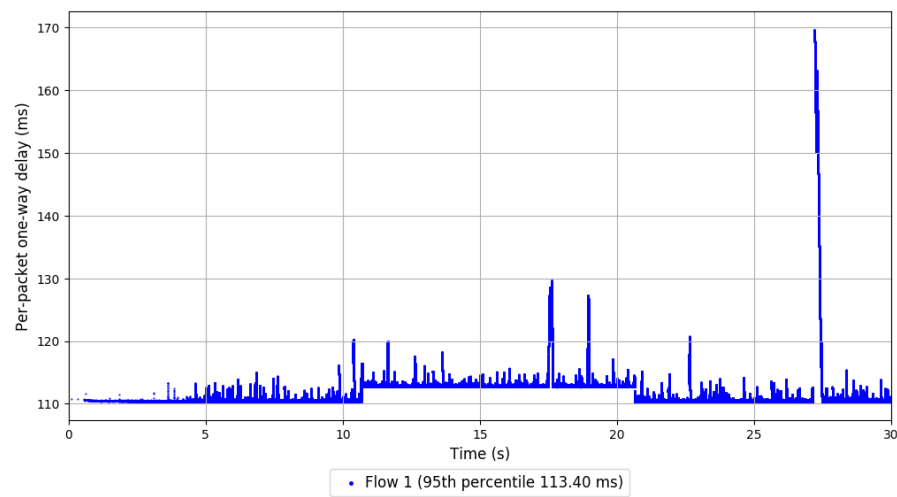
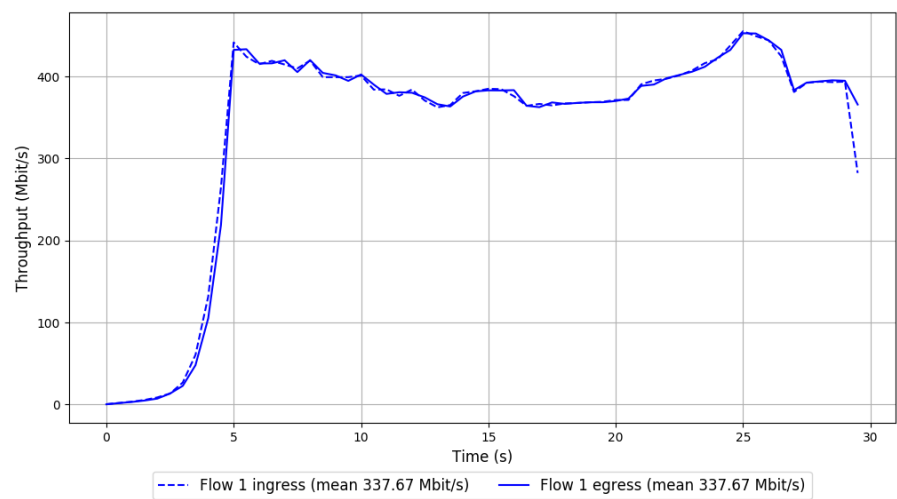


```
Run 1: Statistics of Vivace-latency

Start at: 2018-03-26 22:28:02
End at: 2018-03-26 22:28:32

# Below is generated by plot.py at 2018-03-27 03:13:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 337.67 Mbit/s
95th percentile per-packet one-way delay: 113.404 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 337.67 Mbit/s
95th percentile per-packet one-way delay: 113.404 ms
Loss rate: 0.00%
```

Run 1: Report of Vivace-latency — Data Link



Run 2: Statistics of Vivace-latency

Start at: 2018-03-26 22:43:37

End at: 2018-03-26 22:44:07

Below is generated by plot.py at 2018-03-27 03:13:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 234.05 Mbit/s

95th percentile per-packet one-way delay: 113.403 ms

Loss rate: 0.00%

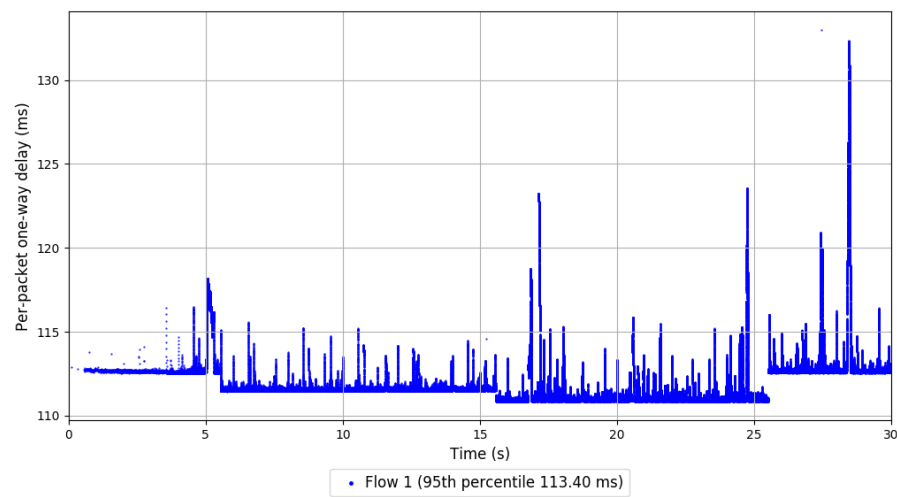
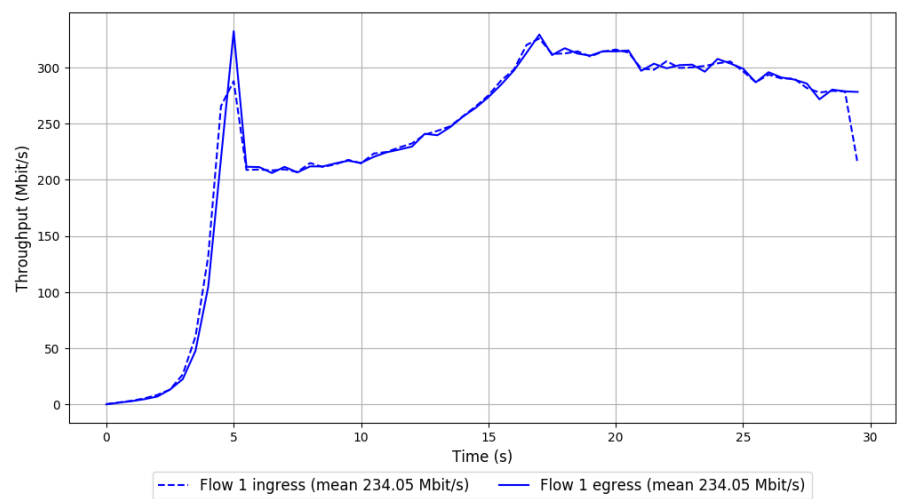
-- Flow 1:

Average throughput: 234.05 Mbit/s

95th percentile per-packet one-way delay: 113.403 ms

Loss rate: 0.00%

Run 2: Report of Vivace-latency — Data Link



Run 3: Statistics of Vivace-latency

Start at: 2018-03-26 22:59:13

End at: 2018-03-26 22:59:43

Below is generated by plot.py at 2018-03-27 03:13:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 341.90 Mbit/s

95th percentile per-packet one-way delay: 114.154 ms

Loss rate: 0.00%

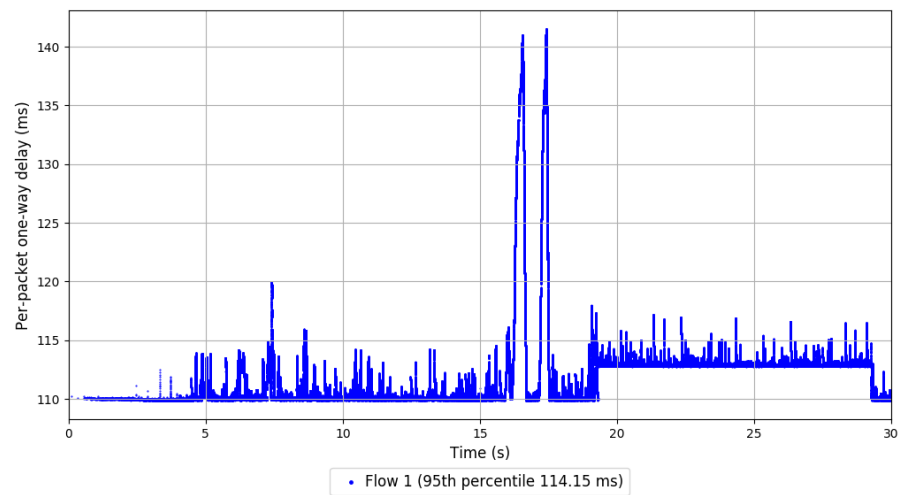
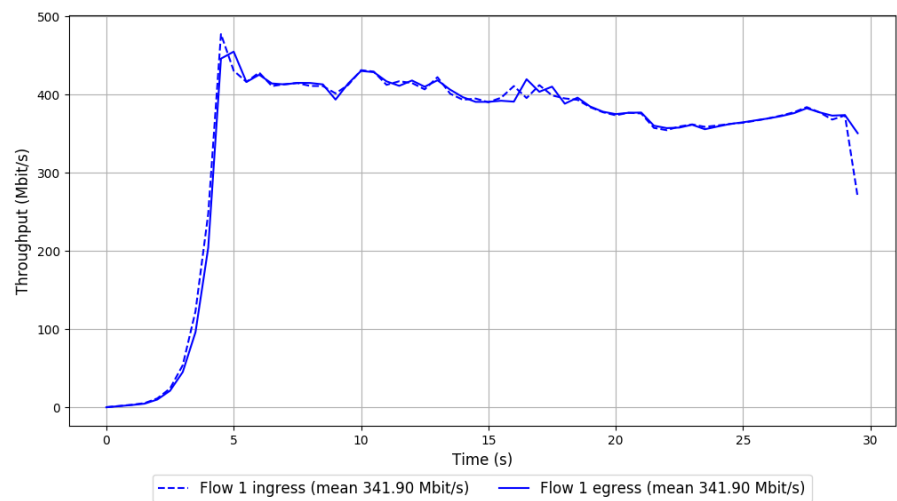
-- Flow 1:

Average throughput: 341.90 Mbit/s

95th percentile per-packet one-way delay: 114.154 ms

Loss rate: 0.00%

Run 3: Report of Vivace-latency — Data Link



Run 4: Statistics of Vivace-latency

Start at: 2018-03-26 23:14:47

End at: 2018-03-26 23:15:17

Below is generated by plot.py at 2018-03-27 03:13:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 327.10 Mbit/s

95th percentile per-packet one-way delay: 116.900 ms

Loss rate: 0.00%

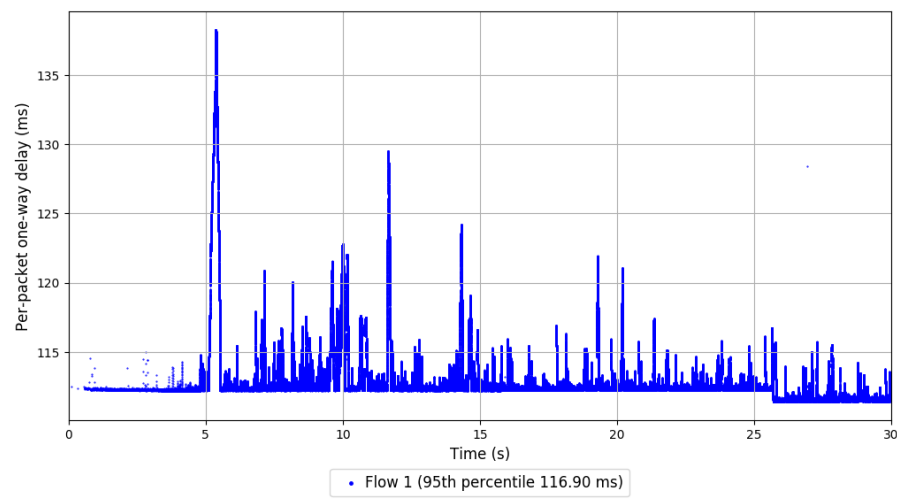
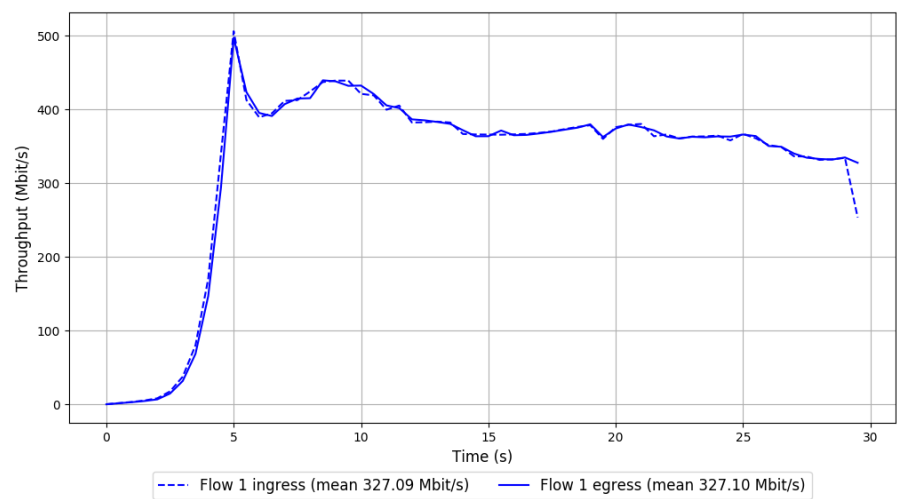
-- Flow 1:

Average throughput: 327.10 Mbit/s

95th percentile per-packet one-way delay: 116.900 ms

Loss rate: 0.00%

Run 4: Report of Vivace-latency — Data Link



Run 5: Statistics of Vivace-latency

Start at: 2018-03-26 23:30:12

End at: 2018-03-26 23:30:42

Below is generated by plot.py at 2018-03-27 03:13:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 319.08 Mbit/s

95th percentile per-packet one-way delay: 138.810 ms

Loss rate: 0.00%

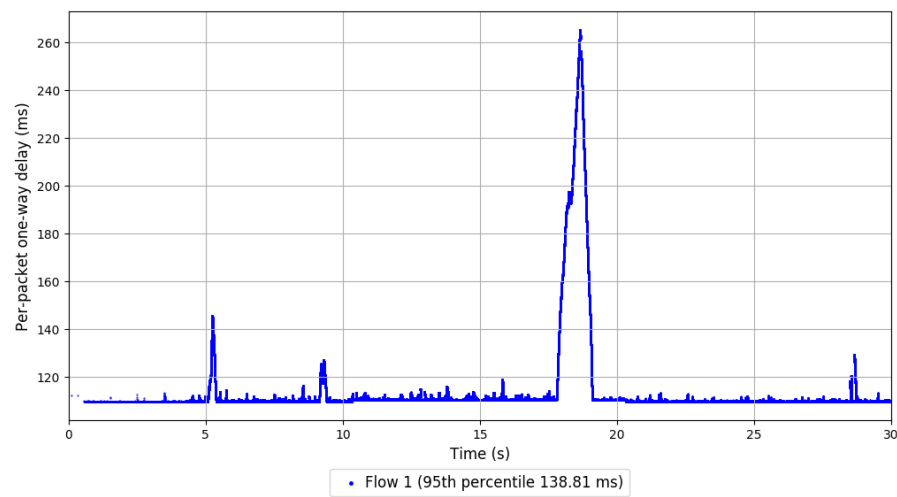
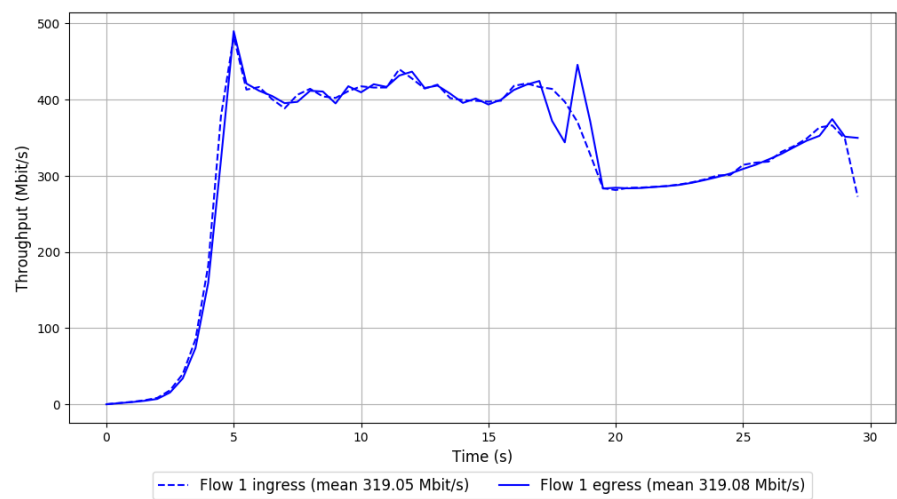
-- Flow 1:

Average throughput: 319.08 Mbit/s

95th percentile per-packet one-way delay: 138.810 ms

Loss rate: 0.00%

Run 5: Report of Vivace-latency — Data Link



Run 6: Statistics of Vivace-latency

Start at: 2018-03-26 23:45:42

End at: 2018-03-26 23:46:12

Below is generated by plot.py at 2018-03-27 03:13:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 327.87 Mbit/s

95th percentile per-packet one-way delay: 116.024 ms

Loss rate: 0.00%

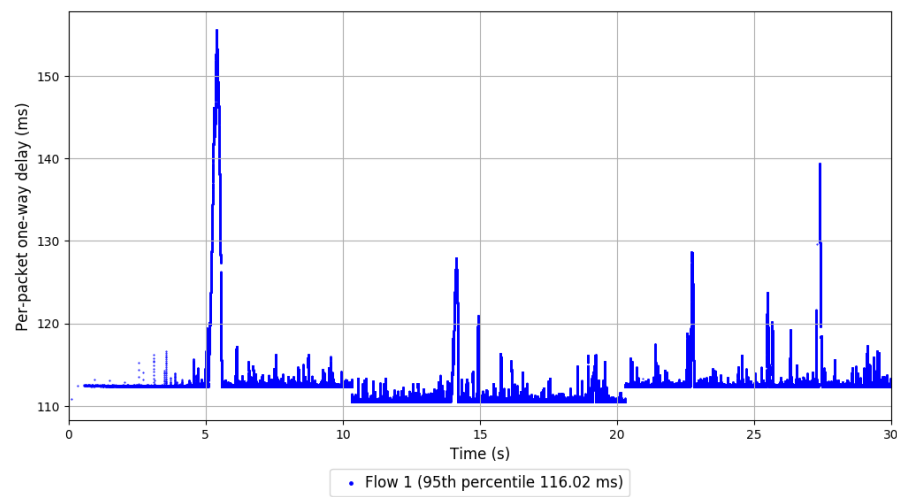
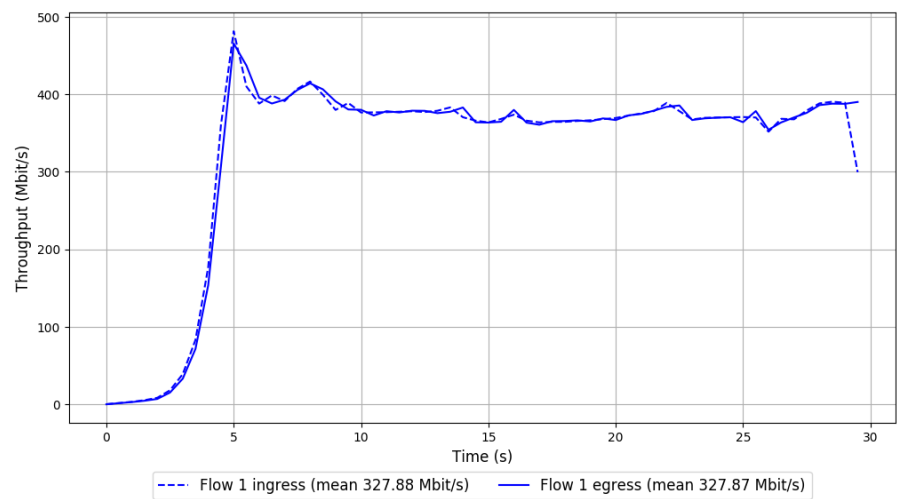
-- Flow 1:

Average throughput: 327.87 Mbit/s

95th percentile per-packet one-way delay: 116.024 ms

Loss rate: 0.00%

Run 6: Report of Vivace-latency — Data Link



Run 7: Statistics of Vivace-latency

Start at: 2018-03-27 00:01:26

End at: 2018-03-27 00:01:56

Below is generated by plot.py at 2018-03-27 03:13:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 326.77 Mbit/s

95th percentile per-packet one-way delay: 120.555 ms

Loss rate: 0.00%

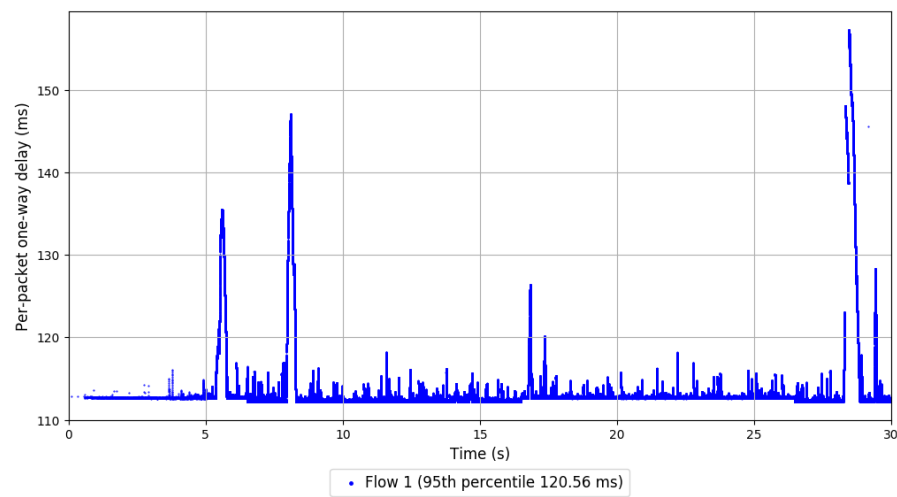
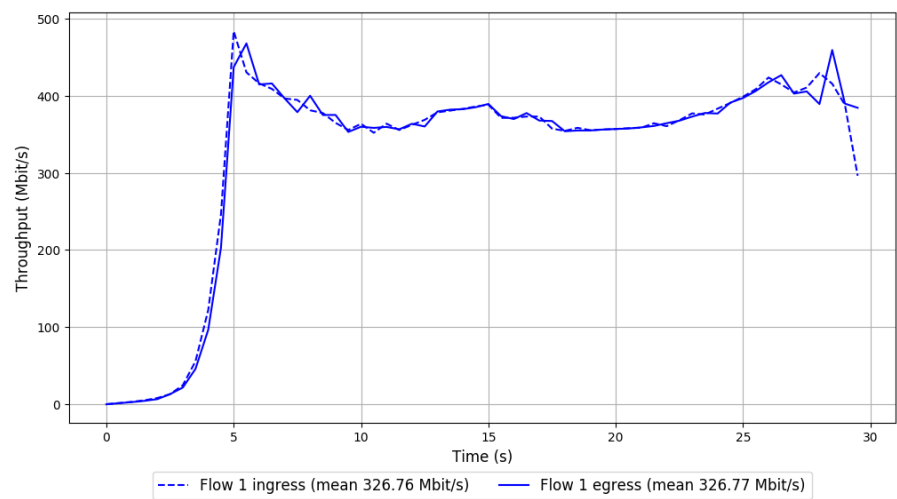
-- Flow 1:

Average throughput: 326.77 Mbit/s

95th percentile per-packet one-way delay: 120.555 ms

Loss rate: 0.00%

Run 7: Report of Vivace-latency — Data Link



Run 8: Statistics of Vivace-latency

Start at: 2018-03-27 00:16:41

End at: 2018-03-27 00:17:11

Below is generated by plot.py at 2018-03-27 03:14:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 318.04 Mbit/s

95th percentile per-packet one-way delay: 150.536 ms

Loss rate: 0.00%

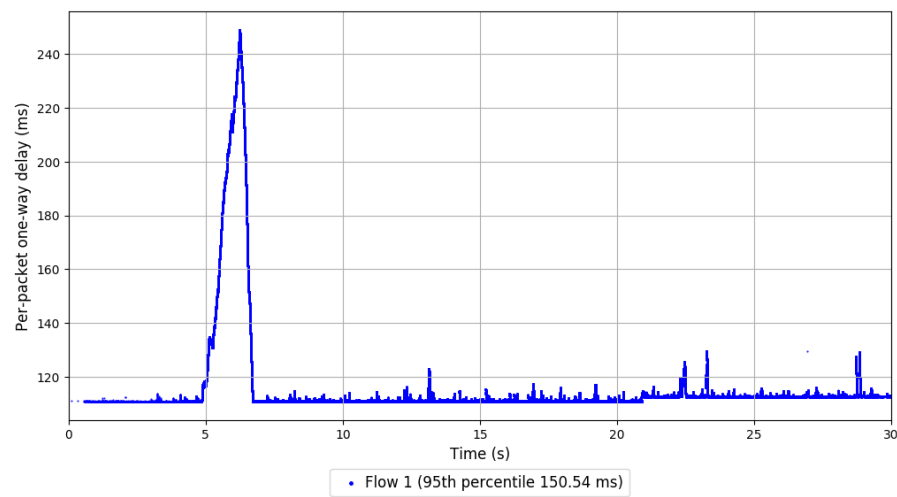
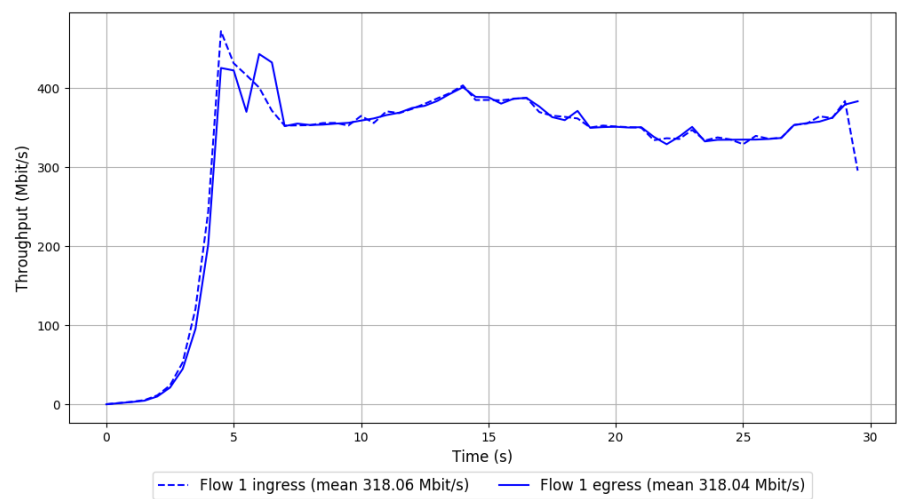
-- Flow 1:

Average throughput: 318.04 Mbit/s

95th percentile per-packet one-way delay: 150.536 ms

Loss rate: 0.00%

Run 8: Report of Vivace-latency — Data Link



Run 9: Statistics of Vivace-latency

Start at: 2018-03-27 00:32:10

End at: 2018-03-27 00:32:40

Below is generated by plot.py at 2018-03-27 03:15:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 357.59 Mbit/s

95th percentile per-packet one-way delay: 132.688 ms

Loss rate: 0.00%

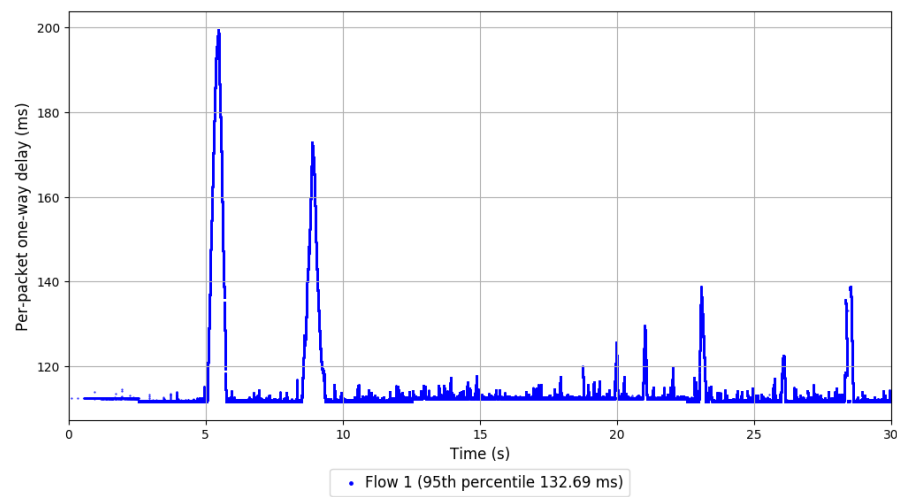
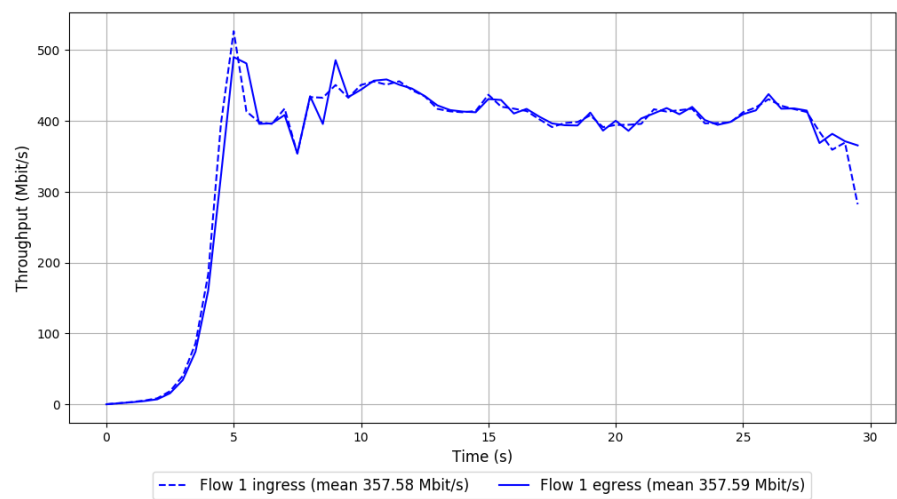
-- Flow 1:

Average throughput: 357.59 Mbit/s

95th percentile per-packet one-way delay: 132.688 ms

Loss rate: 0.00%

Run 9: Report of Vivace-latency — Data Link



Run 10: Statistics of Vivace-latency

Start at: 2018-03-27 00:47:44

End at: 2018-03-27 00:48:14

Below is generated by plot.py at 2018-03-27 03:15:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 364.46 Mbit/s

95th percentile per-packet one-way delay: 123.616 ms

Loss rate: 0.00%

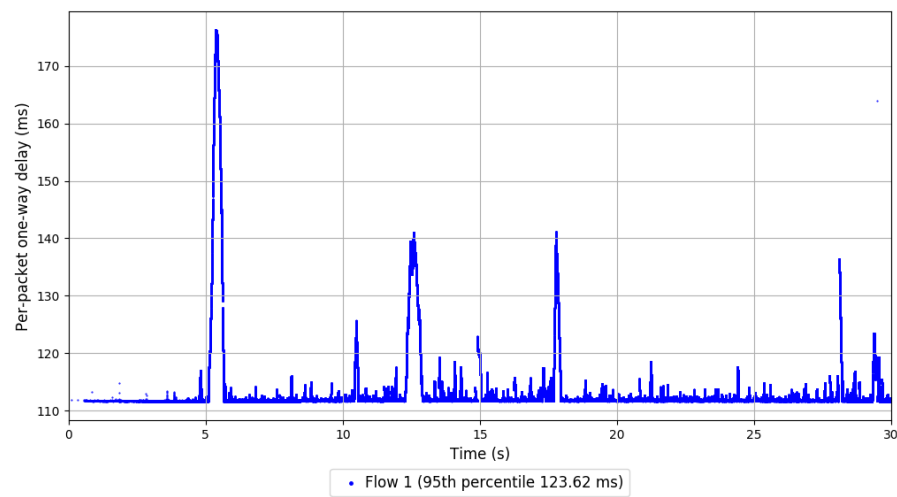
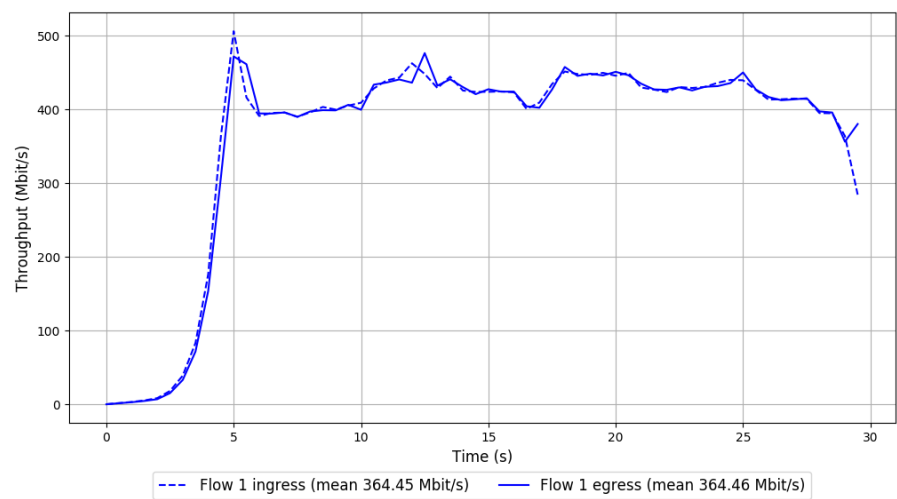
-- Flow 1:

Average throughput: 364.46 Mbit/s

95th percentile per-packet one-way delay: 123.616 ms

Loss rate: 0.00%

Run 10: Report of Vivace-latency — Data Link

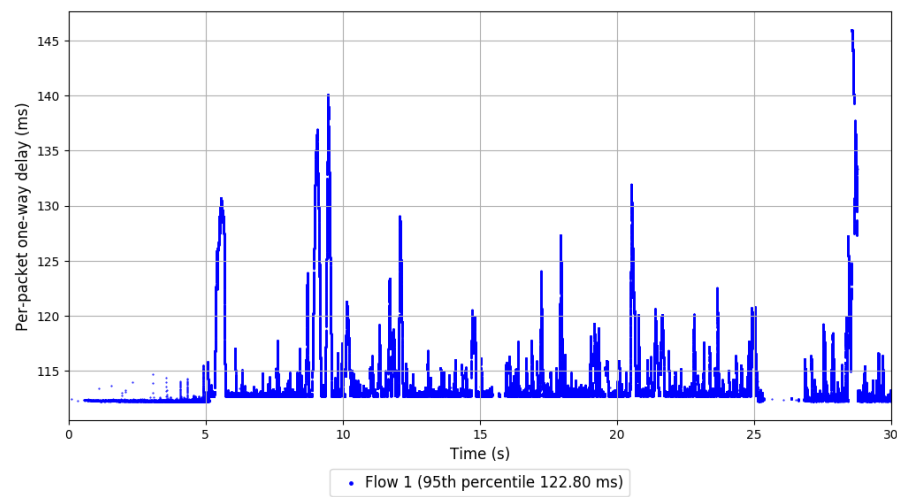
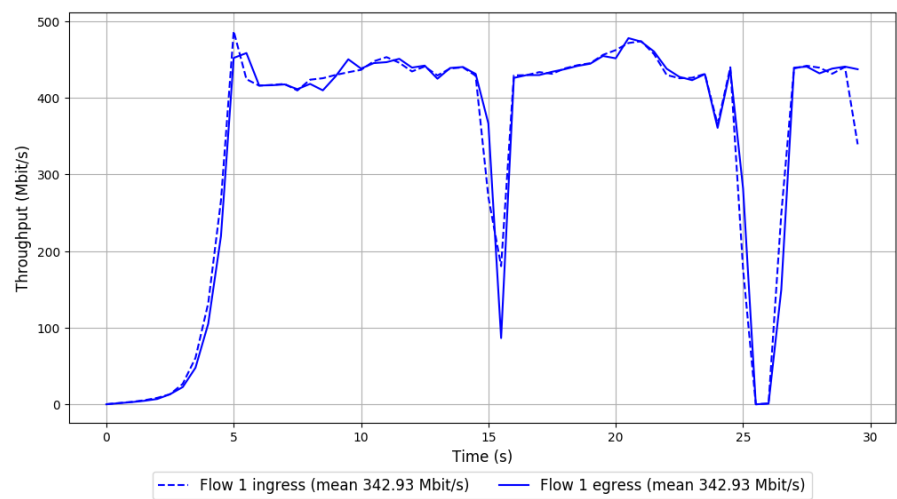


```
Run 1: Statistics of Vivace-loss

Start at: 2018-03-26 22:29:07
End at: 2018-03-26 22:29:37

# Below is generated by plot.py at 2018-03-27 03:15:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 342.93 Mbit/s
95th percentile per-packet one-way delay: 122.800 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 342.93 Mbit/s
95th percentile per-packet one-way delay: 122.800 ms
Loss rate: 0.01%
```

Run 1: Report of Vivace-loss — Data Link

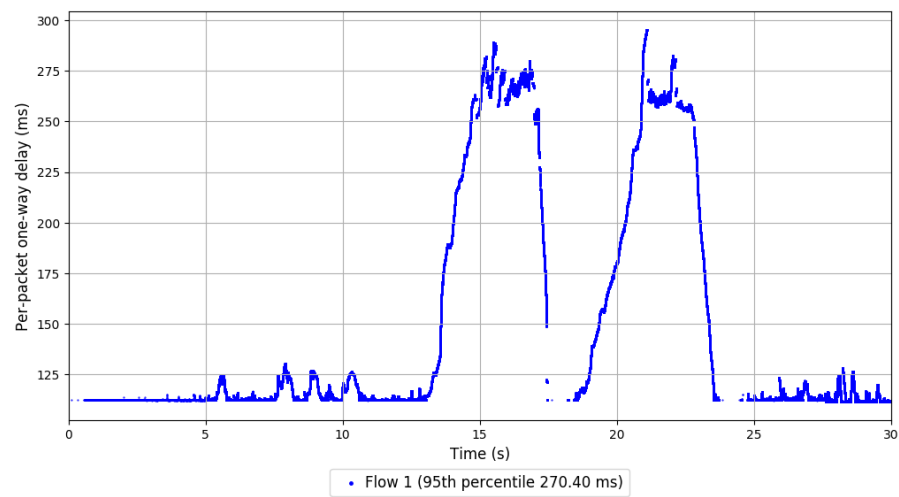
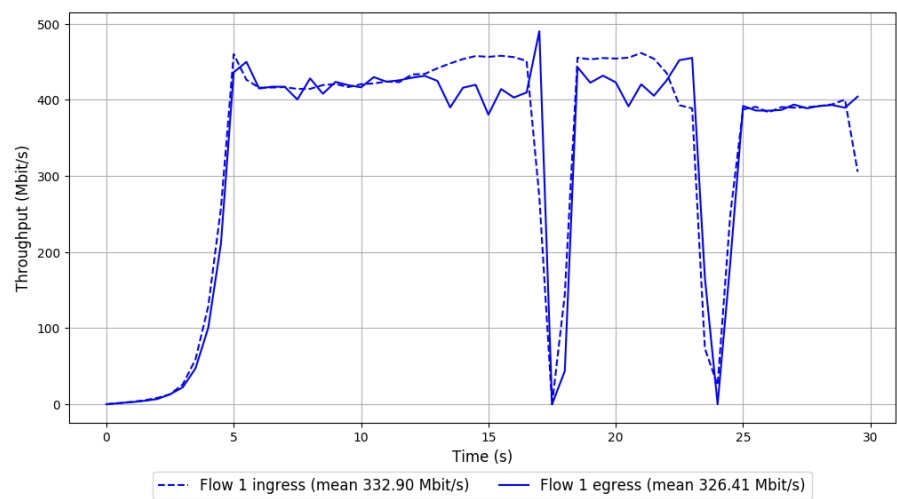


```
Run 2: Statistics of Vivace-loss

Start at: 2018-03-26 22:44:35
End at: 2018-03-26 22:45:05

# Below is generated by plot.py at 2018-03-27 03:18:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 326.41 Mbit/s
95th percentile per-packet one-way delay: 270.397 ms
Loss rate: 1.95%
-- Flow 1:
Average throughput: 326.41 Mbit/s
95th percentile per-packet one-way delay: 270.397 ms
Loss rate: 1.95%
```

Run 2: Report of Vivace-loss — Data Link



Run 3: Statistics of Vivace-loss

Start at: 2018-03-26 23:00:18

End at: 2018-03-26 23:00:49

Below is generated by plot.py at 2018-03-27 03:18:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 314.26 Mbit/s

95th percentile per-packet one-way delay: 171.216 ms

Loss rate: 0.00%

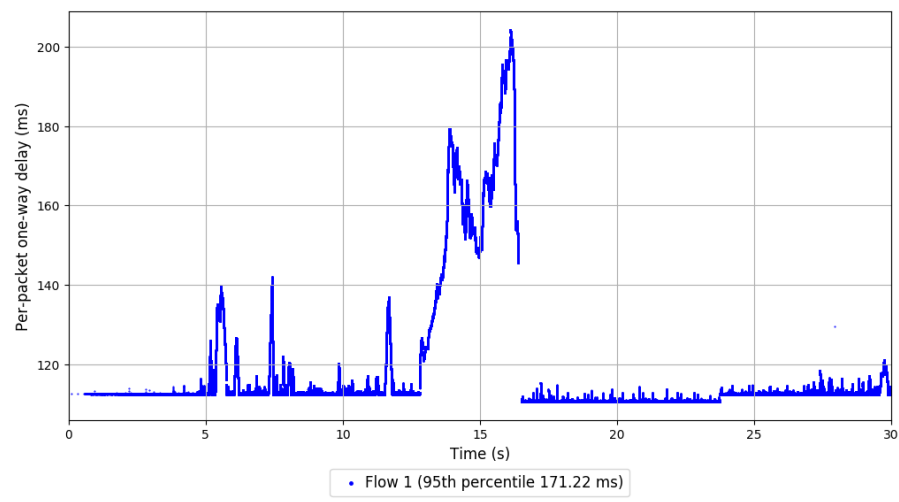
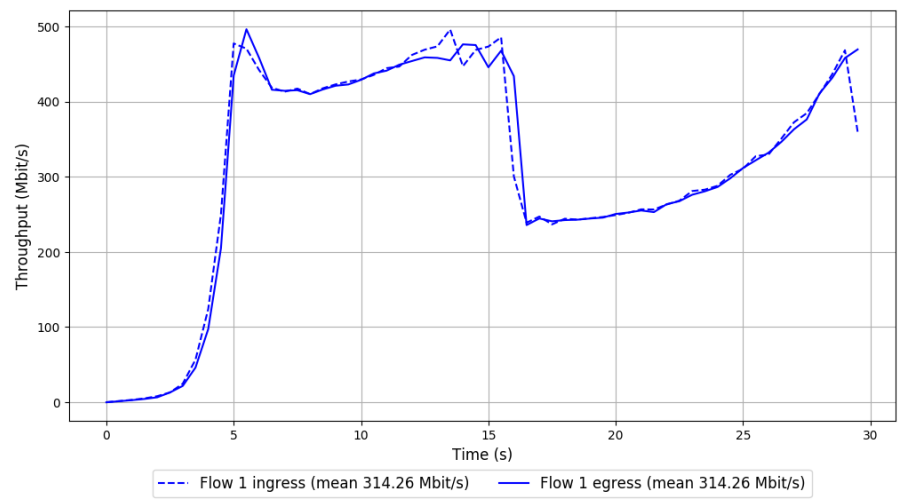
-- Flow 1:

Average throughput: 314.26 Mbit/s

95th percentile per-packet one-way delay: 171.216 ms

Loss rate: 0.00%

Run 3: Report of Vivace-loss — Data Link



Run 4: Statistics of Vivace-loss

Start at: 2018-03-26 23:15:51

End at: 2018-03-26 23:16:21

Below is generated by plot.py at 2018-03-27 03:19:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 338.28 Mbit/s

95th percentile per-packet one-way delay: 140.693 ms

Loss rate: 0.14%

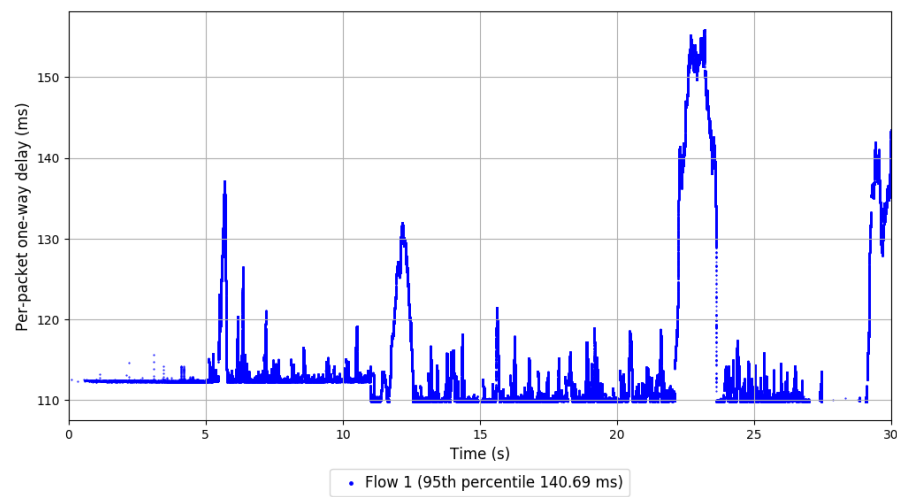
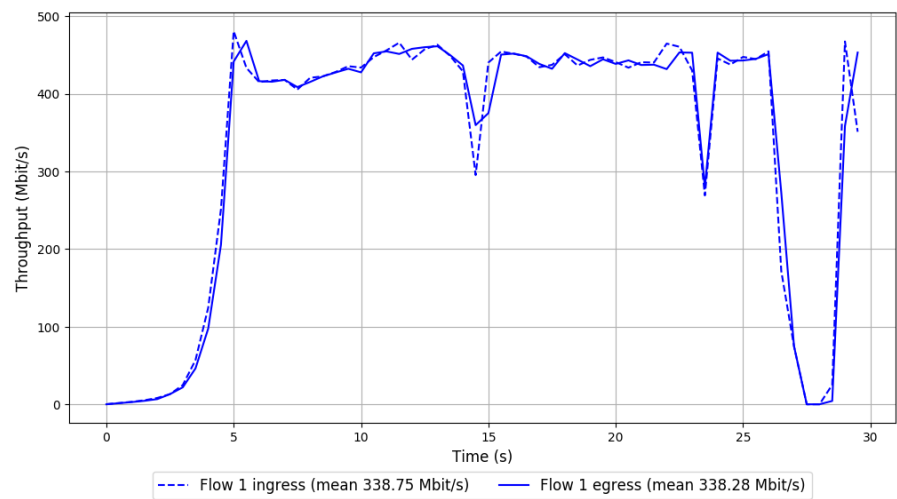
-- Flow 1:

Average throughput: 338.28 Mbit/s

95th percentile per-packet one-way delay: 140.693 ms

Loss rate: 0.14%

Run 4: Report of Vivace-loss — Data Link



Run 5: Statistics of Vivace-loss

Start at: 2018-03-26 23:31:16

End at: 2018-03-26 23:31:46

Below is generated by plot.py at 2018-03-27 03:19:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 348.71 Mbit/s

95th percentile per-packet one-way delay: 145.238 ms

Loss rate: 0.27%

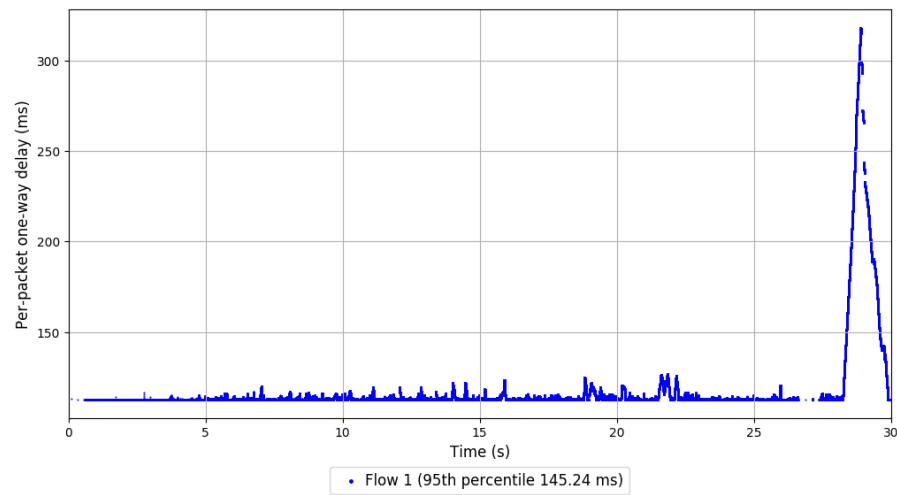
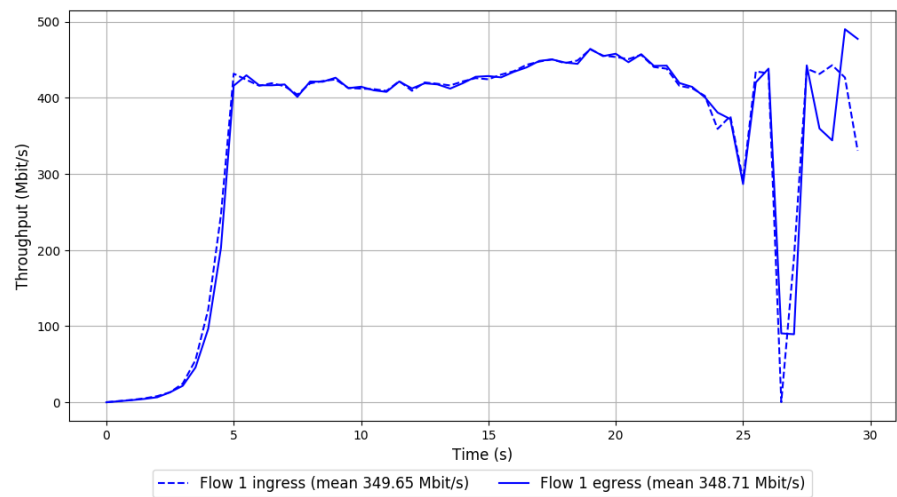
-- Flow 1:

Average throughput: 348.71 Mbit/s

95th percentile per-packet one-way delay: 145.238 ms

Loss rate: 0.27%

Run 5: Report of Vivace-loss — Data Link



Run 6: Statistics of Vivace-loss

Start at: 2018-03-26 23:46:47

End at: 2018-03-26 23:47:17

Below is generated by plot.py at 2018-03-27 03:21:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 367.79 Mbit/s

95th percentile per-packet one-way delay: 173.622 ms

Loss rate: 0.22%

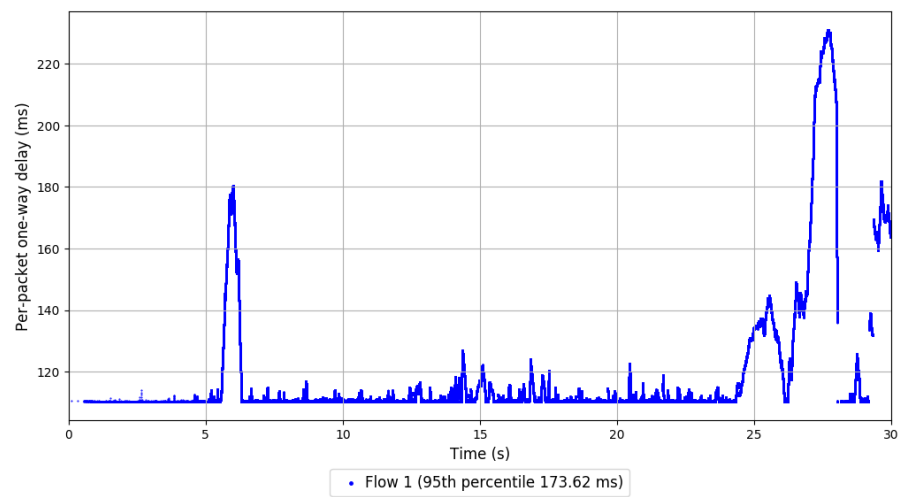
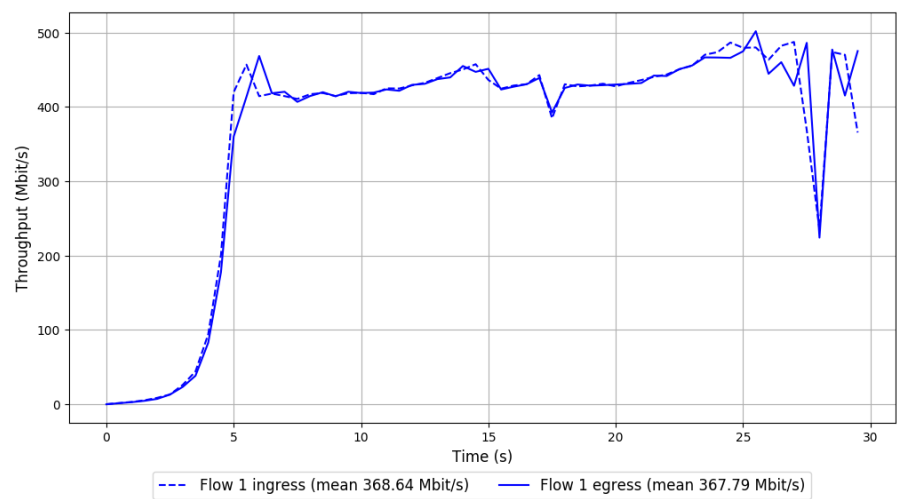
-- Flow 1:

Average throughput: 367.79 Mbit/s

95th percentile per-packet one-way delay: 173.622 ms

Loss rate: 0.22%

Run 6: Report of Vivace-loss — Data Link



Run 7: Statistics of Vivace-loss

Start at: 2018-03-27 00:02:30

End at: 2018-03-27 00:03:00

Below is generated by plot.py at 2018-03-27 03:21:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 365.24 Mbit/s

95th percentile per-packet one-way delay: 117.980 ms

Loss rate: 0.01%

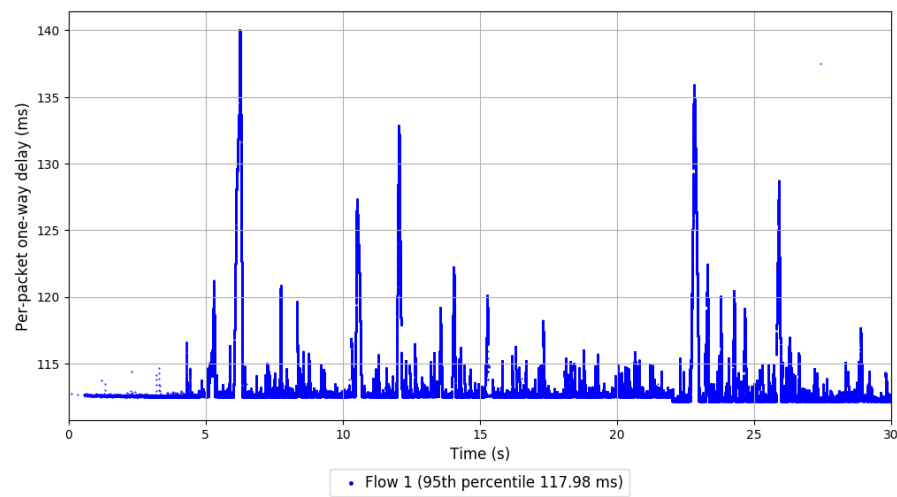
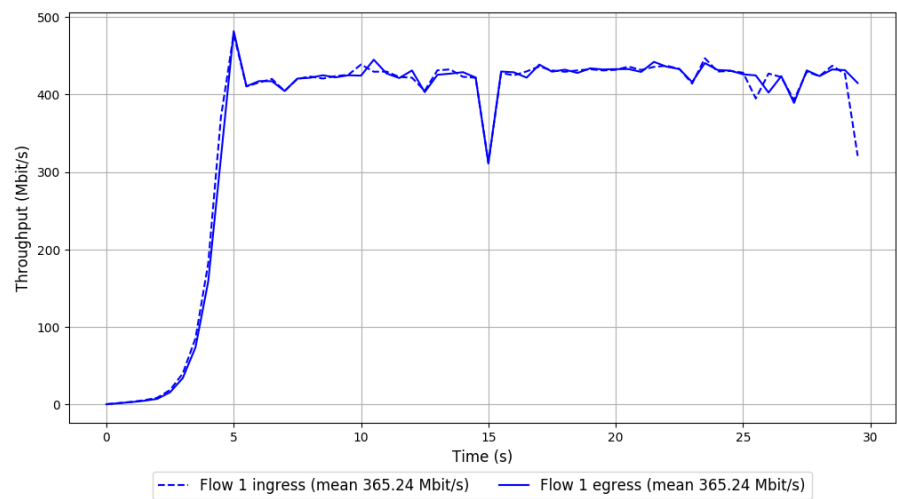
-- Flow 1:

Average throughput: 365.24 Mbit/s

95th percentile per-packet one-way delay: 117.980 ms

Loss rate: 0.01%

Run 7: Report of Vivace-loss — Data Link



Run 8: Statistics of Vivace-loss

Start at: 2018-03-27 00:17:45

End at: 2018-03-27 00:18:15

Below is generated by plot.py at 2018-03-27 03:21:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 324.15 Mbit/s

95th percentile per-packet one-way delay: 115.915 ms

Loss rate: 0.00%

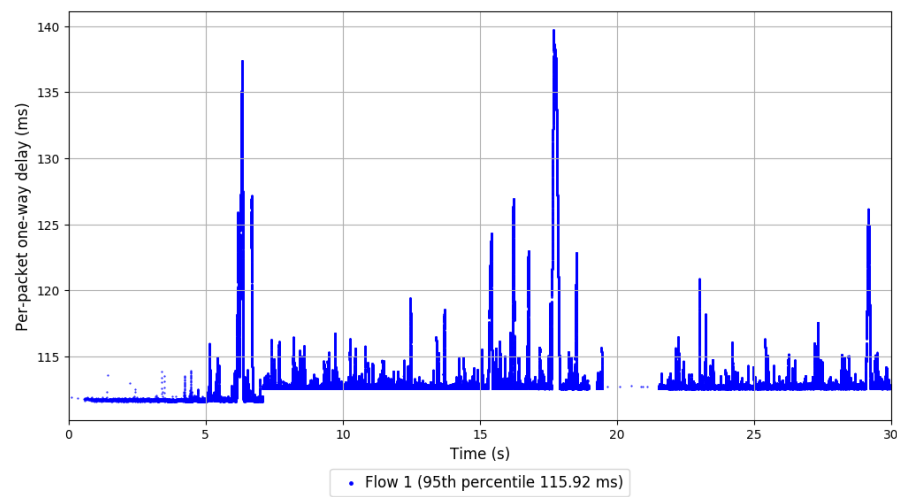
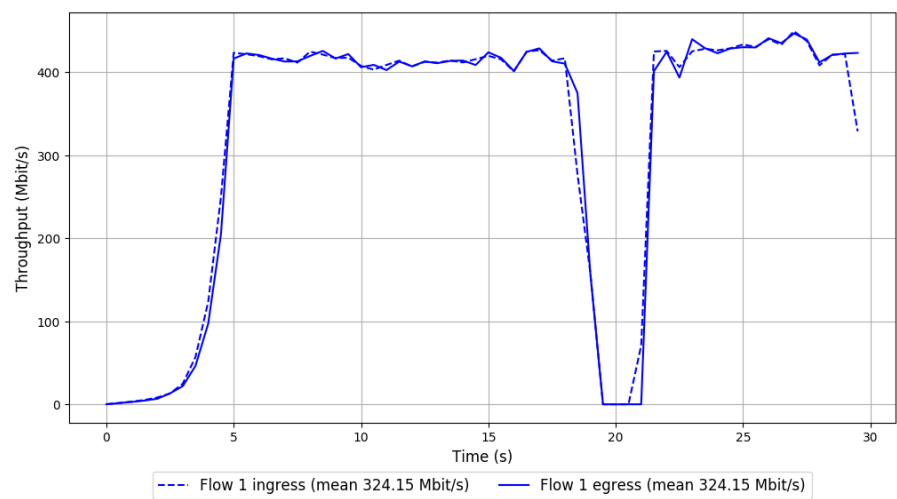
-- Flow 1:

Average throughput: 324.15 Mbit/s

95th percentile per-packet one-way delay: 115.915 ms

Loss rate: 0.00%

Run 8: Report of Vivace-loss — Data Link



Run 9: Statistics of Vivace-loss

Start at: 2018-03-27 00:33:17

End at: 2018-03-27 00:33:47

Below is generated by plot.py at 2018-03-27 03:22:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 365.33 Mbit/s

95th percentile per-packet one-way delay: 132.983 ms

Loss rate: 0.00%

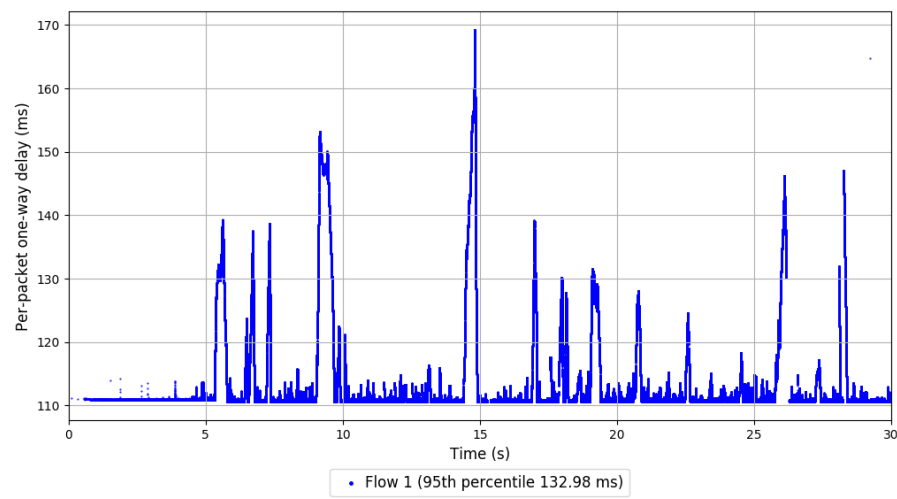
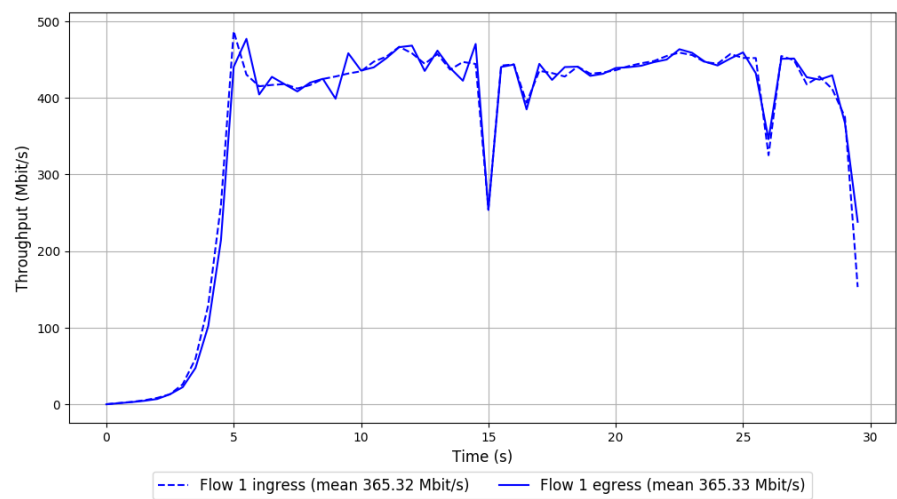
-- Flow 1:

Average throughput: 365.33 Mbit/s

95th percentile per-packet one-way delay: 132.983 ms

Loss rate: 0.00%

Run 9: Report of Vivace-loss — Data Link



Run 10: Statistics of Vivace-loss

Start at: 2018-03-27 00:48:51

End at: 2018-03-27 00:49:21

Below is generated by plot.py at 2018-03-27 03:24:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 375.81 Mbit/s

95th percentile per-packet one-way delay: 221.749 ms

Loss rate: 0.58%

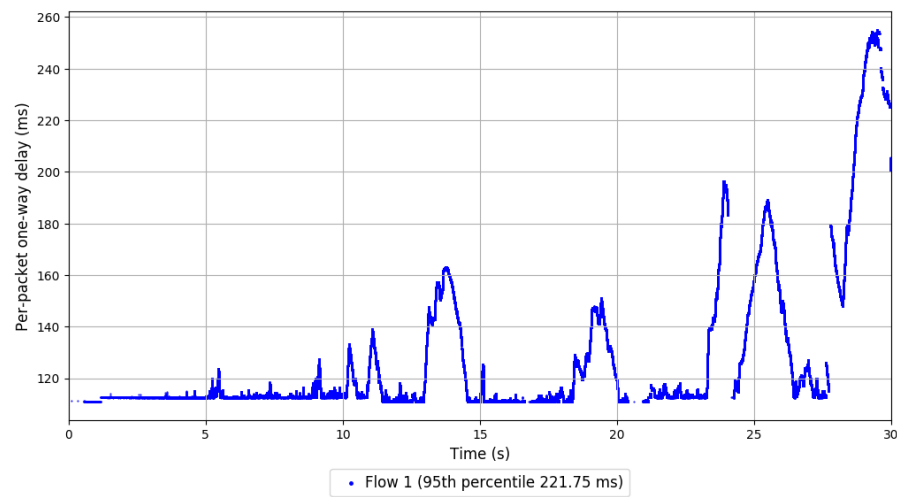
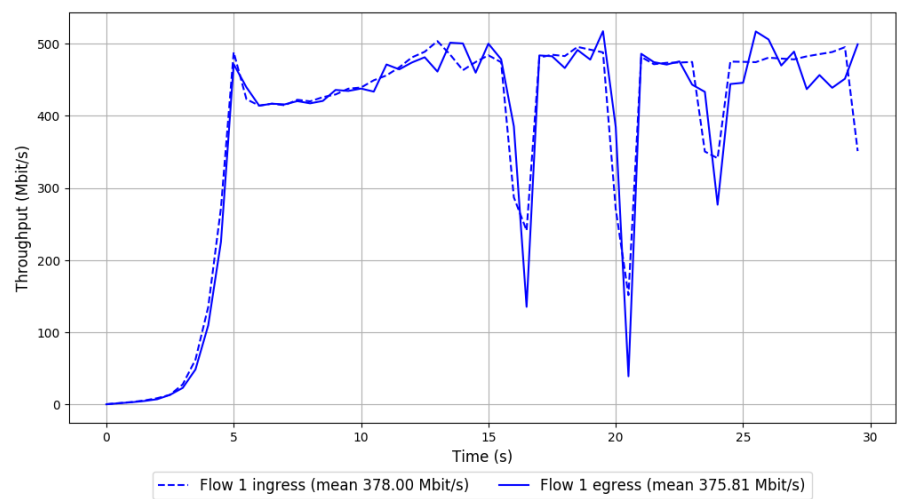
-- Flow 1:

Average throughput: 375.81 Mbit/s

95th percentile per-packet one-way delay: 221.749 ms

Loss rate: 0.58%

Run 10: Report of Vivace-loss — Data Link



Run 1: Statistics of Vivace-LTE

Start at: 2018-03-26 22:26:55

End at: 2018-03-26 22:27:25

Below is generated by plot.py at 2018-03-27 03:24:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 351.18 Mbit/s

95th percentile per-packet one-way delay: 132.312 ms

Loss rate: 0.00%

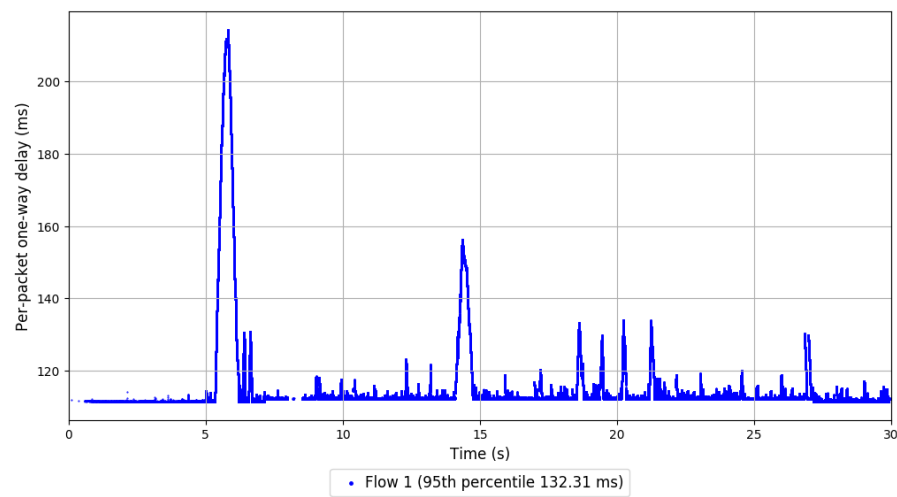
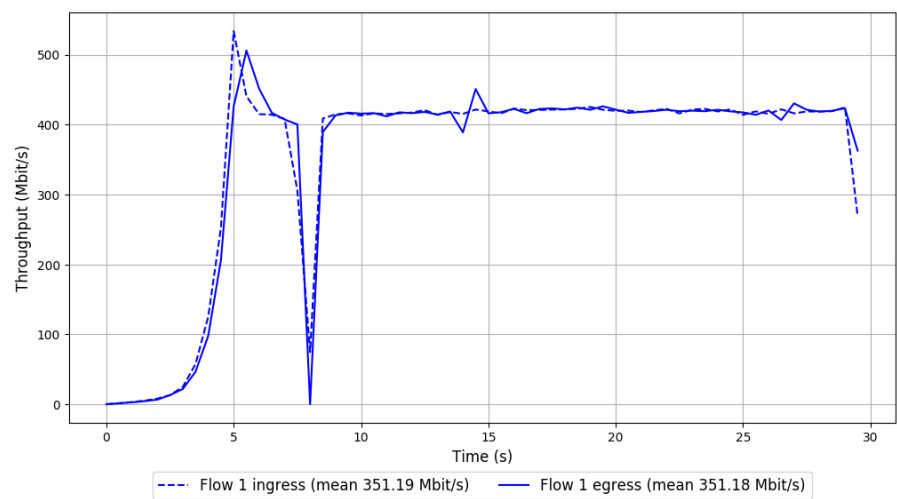
-- Flow 1:

Average throughput: 351.18 Mbit/s

95th percentile per-packet one-way delay: 132.312 ms

Loss rate: 0.00%

Run 1: Report of Vivace-LTE — Data Link



Run 2: Statistics of Vivace-LTE

Start at: 2018-03-26 22:42:29

End at: 2018-03-26 22:42:59

Below is generated by plot.py at 2018-03-27 03:25:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 363.91 Mbit/s

95th percentile per-packet one-way delay: 119.224 ms

Loss rate: 0.02%

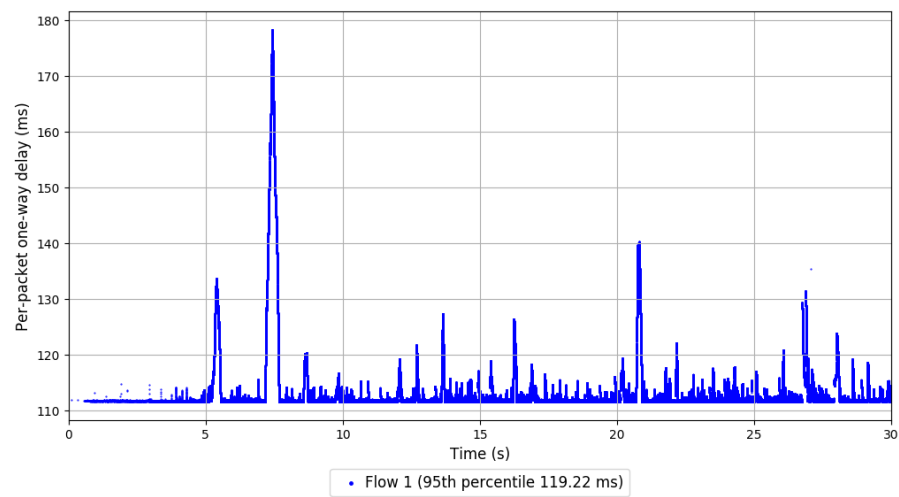
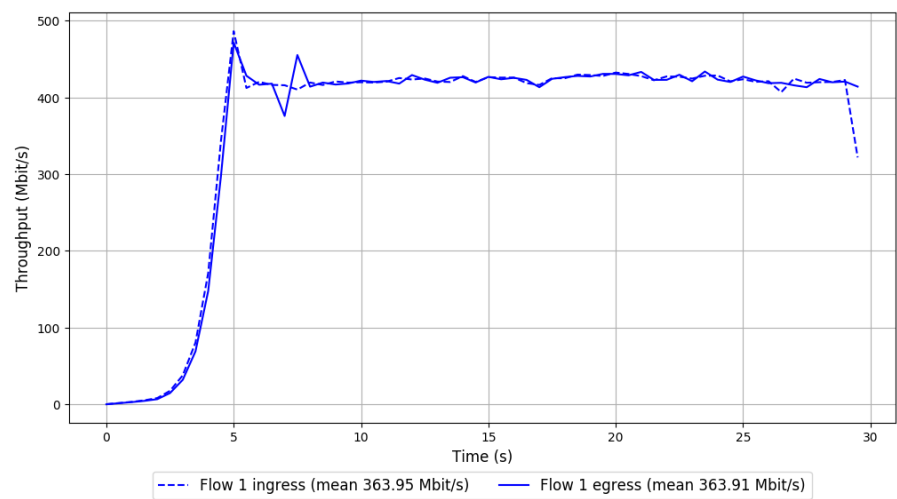
-- Flow 1:

Average throughput: 363.91 Mbit/s

95th percentile per-packet one-way delay: 119.224 ms

Loss rate: 0.02%

Run 2: Report of Vivace-LTE — Data Link



Run 3: Statistics of Vivace-LTE

Start at: 2018-03-26 22:58:06

End at: 2018-03-26 22:58:36

Below is generated by plot.py at 2018-03-27 03:26:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 369.02 Mbit/s

95th percentile per-packet one-way delay: 133.214 ms

Loss rate: 0.00%

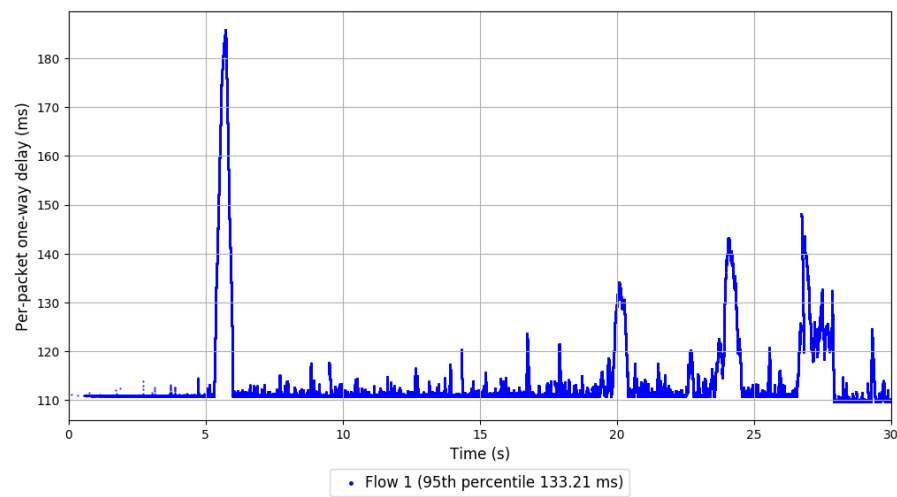
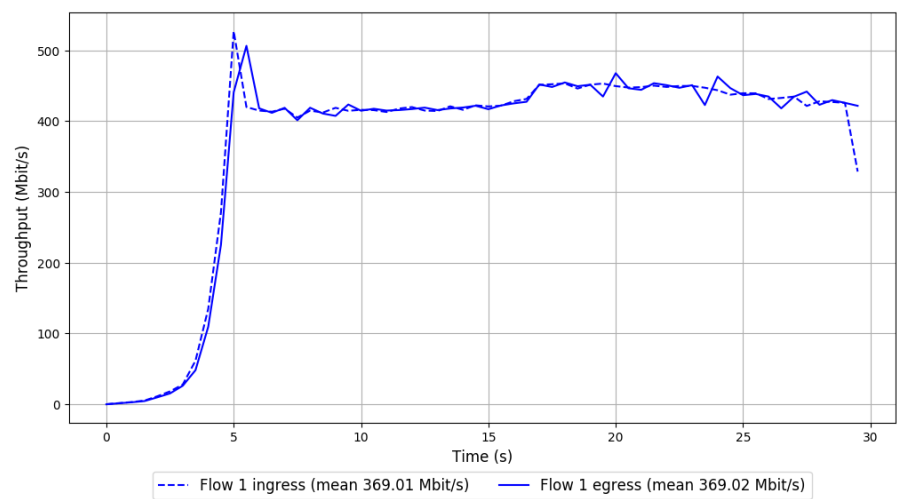
-- Flow 1:

Average throughput: 369.02 Mbit/s

95th percentile per-packet one-way delay: 133.214 ms

Loss rate: 0.00%

Run 3: Report of Vivace-LTE — Data Link



Run 4: Statistics of Vivace-LTE

Start at: 2018-03-26 23:13:40

End at: 2018-03-26 23:14:10

Below is generated by plot.py at 2018-03-27 03:27:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 352.43 Mbit/s

95th percentile per-packet one-way delay: 177.475 ms

Loss rate: 0.59%

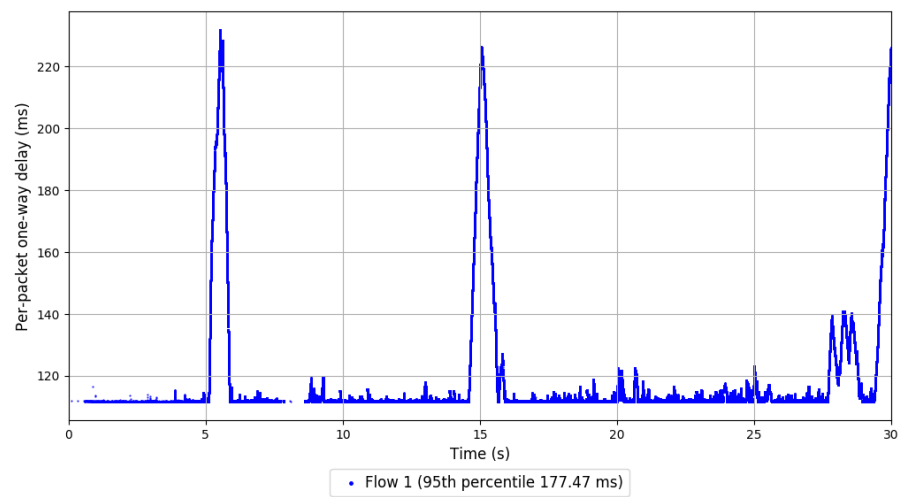
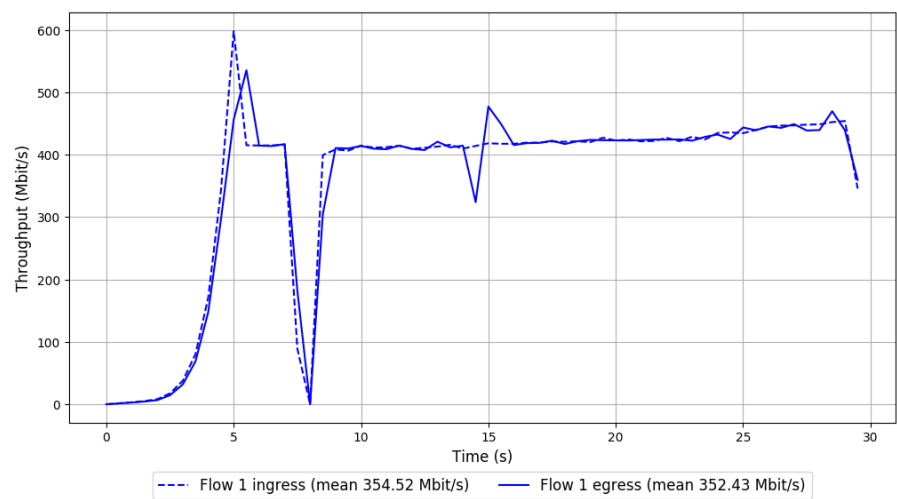
-- Flow 1:

Average throughput: 352.43 Mbit/s

95th percentile per-packet one-way delay: 177.475 ms

Loss rate: 0.59%

Run 4: Report of Vivace-LTE — Data Link



Run 5: Statistics of Vivace-LTE

Start at: 2018-03-26 23:29:04

End at: 2018-03-26 23:29:34

Below is generated by plot.py at 2018-03-27 03:27:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 368.44 Mbit/s

95th percentile per-packet one-way delay: 144.612 ms

Loss rate: 0.20%

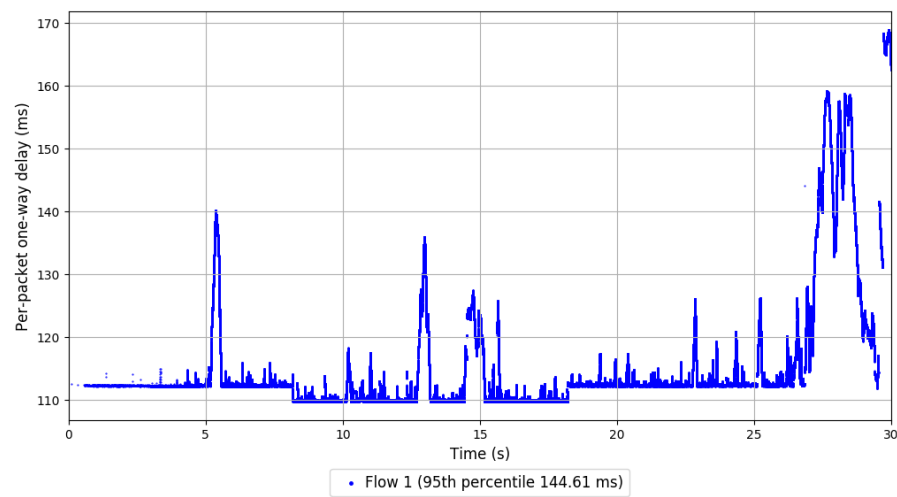
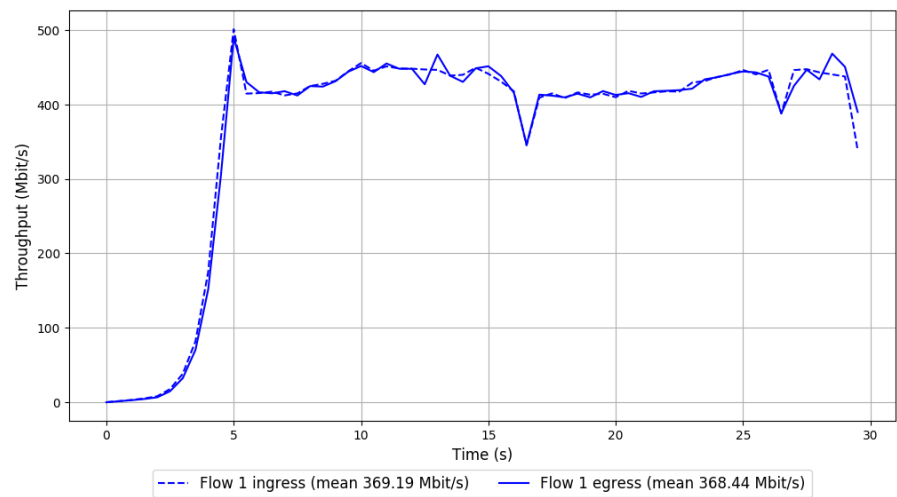
-- Flow 1:

Average throughput: 368.44 Mbit/s

95th percentile per-packet one-way delay: 144.612 ms

Loss rate: 0.20%

Run 5: Report of Vivace-LTE — Data Link



Run 6: Statistics of Vivace-LTE

Start at: 2018-03-26 23:44:36

End at: 2018-03-26 23:45:06

Below is generated by plot.py at 2018-03-27 03:27:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 337.96 Mbit/s

95th percentile per-packet one-way delay: 268.738 ms

Loss rate: 1.45%

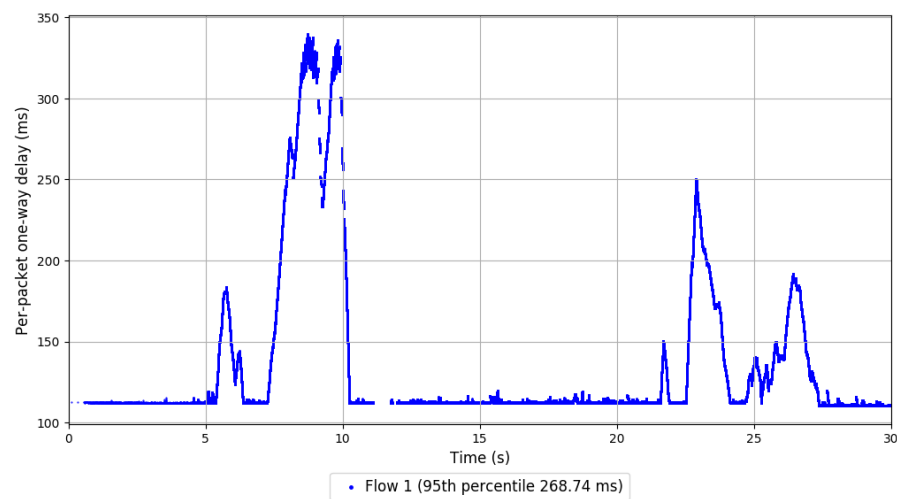
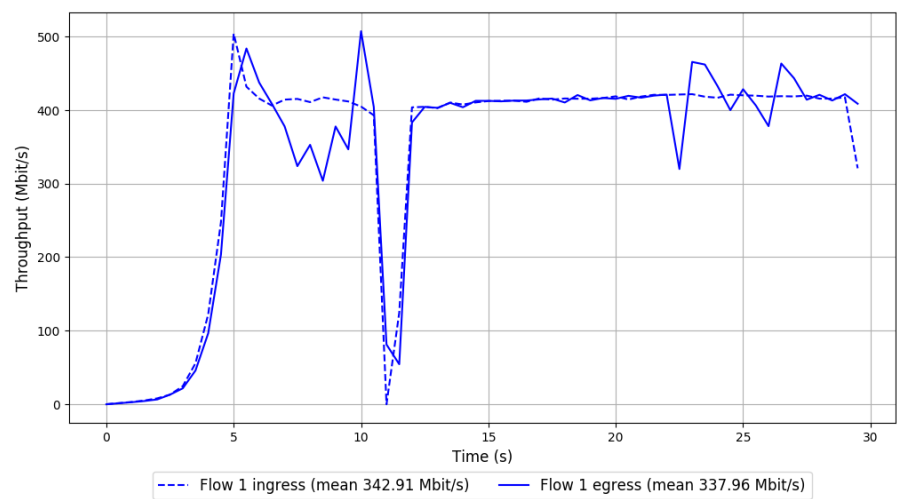
-- Flow 1:

Average throughput: 337.96 Mbit/s

95th percentile per-packet one-way delay: 268.738 ms

Loss rate: 1.45%

Run 6: Report of Vivace-LTE — Data Link



Run 7: Statistics of Vivace-LTE

Start at: 2018-03-27 00:00:18

End at: 2018-03-27 00:00:49

Below is generated by plot.py at 2018-03-27 03:28:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 365.95 Mbit/s

95th percentile per-packet one-way delay: 142.290 ms

Loss rate: 0.02%

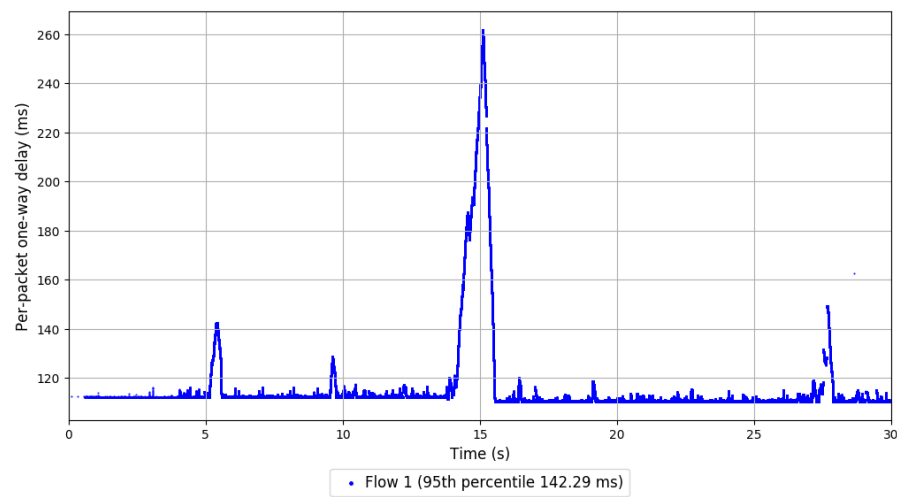
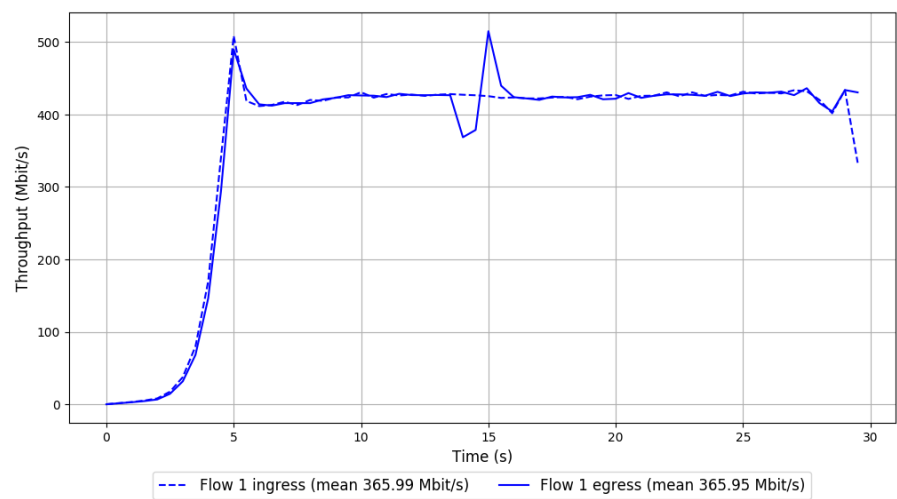
-- Flow 1:

Average throughput: 365.95 Mbit/s

95th percentile per-packet one-way delay: 142.290 ms

Loss rate: 0.02%

Run 7: Report of Vivace-LTE — Data Link



Run 8: Statistics of Vivace-LTE

Start at: 2018-03-27 00:15:40

End at: 2018-03-27 00:16:10

Below is generated by plot.py at 2018-03-27 03:28:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 280.67 Mbit/s

95th percentile per-packet one-way delay: 115.655 ms

Loss rate: 0.00%

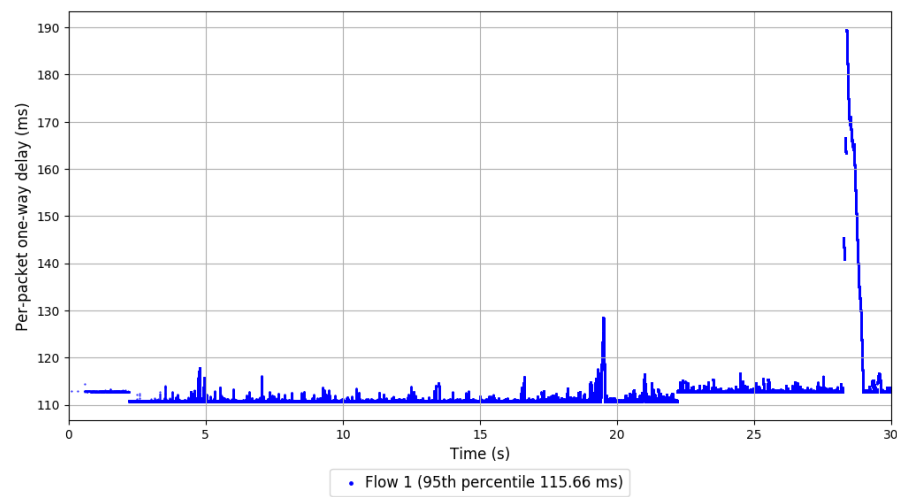
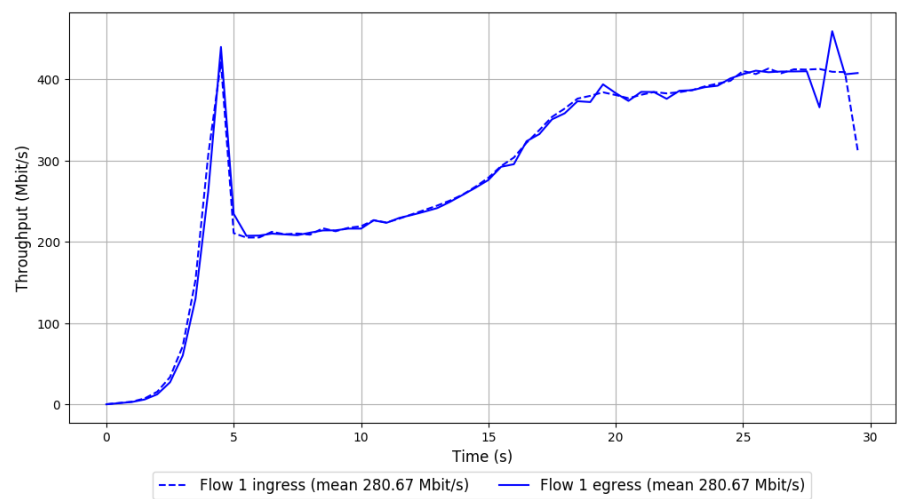
-- Flow 1:

Average throughput: 280.67 Mbit/s

95th percentile per-packet one-way delay: 115.655 ms

Loss rate: 0.00%

Run 8: Report of Vivace-LTE — Data Link



Run 9: Statistics of Vivace-LTE

Start at: 2018-03-27 00:31:04

End at: 2018-03-27 00:31:34

Below is generated by plot.py at 2018-03-27 03:28:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 345.98 Mbit/s

95th percentile per-packet one-way delay: 130.284 ms

Loss rate: 0.00%

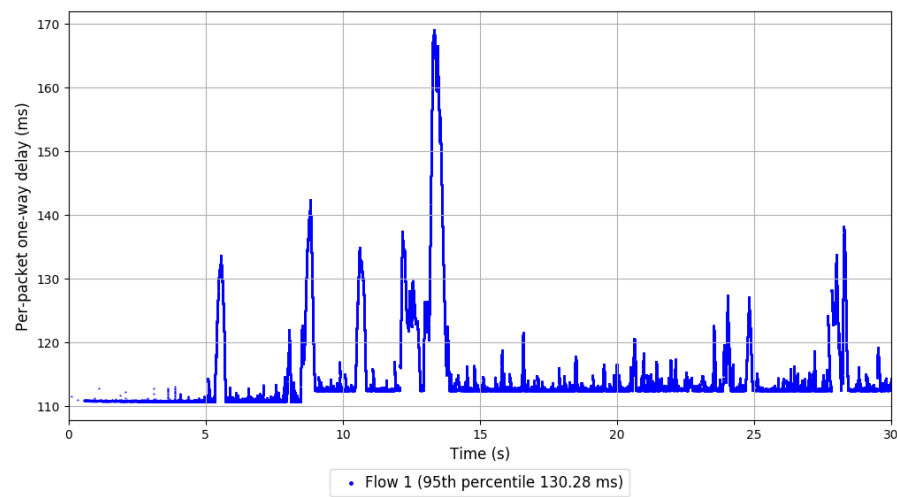
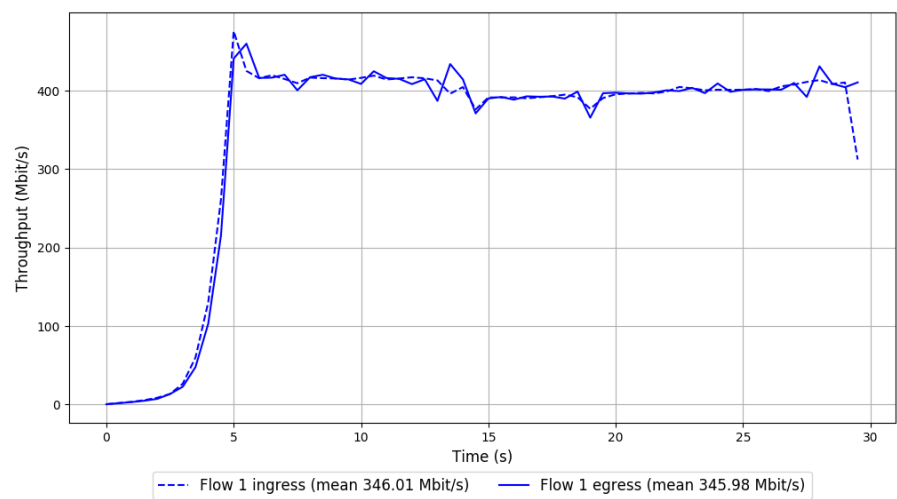
-- Flow 1:

Average throughput: 345.98 Mbit/s

95th percentile per-packet one-way delay: 130.284 ms

Loss rate: 0.00%

Run 9: Report of Vivace-LTE — Data Link



Run 10: Statistics of Vivace-LTE

Start at: 2018-03-27 00:46:35

End at: 2018-03-27 00:47:05

Below is generated by plot.py at 2018-03-27 03:28:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 375.65 Mbit/s

95th percentile per-packet one-way delay: 131.127 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 375.65 Mbit/s

95th percentile per-packet one-way delay: 131.127 ms

Loss rate: 0.00%

Run 10: Report of Vivace-LTE — Data Link

