

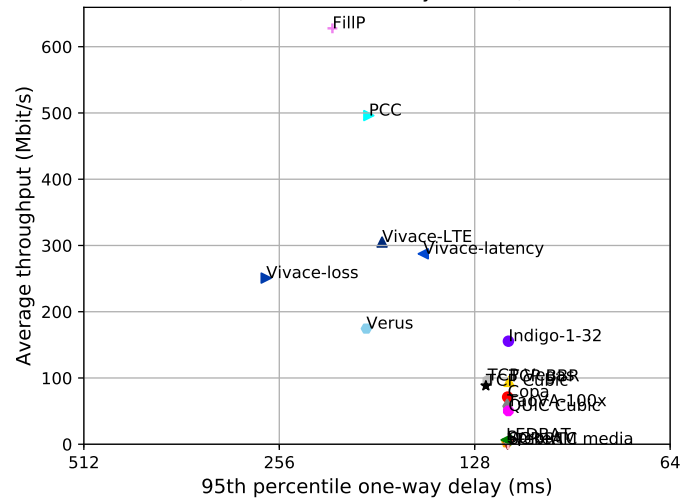
Pantheon Report

Generated at 2018-04-10 11:41:45 (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**).

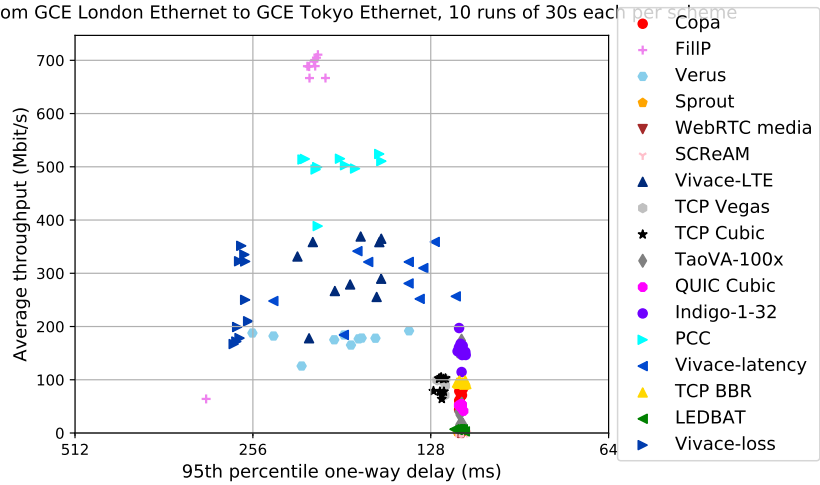
Git summary:

```
branch: master @ eb420b5be9bafccd22cf68b99ff5a2000462fc59
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ 11f8c46a2bf1dc797253db7e8ca04076272b2a44
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



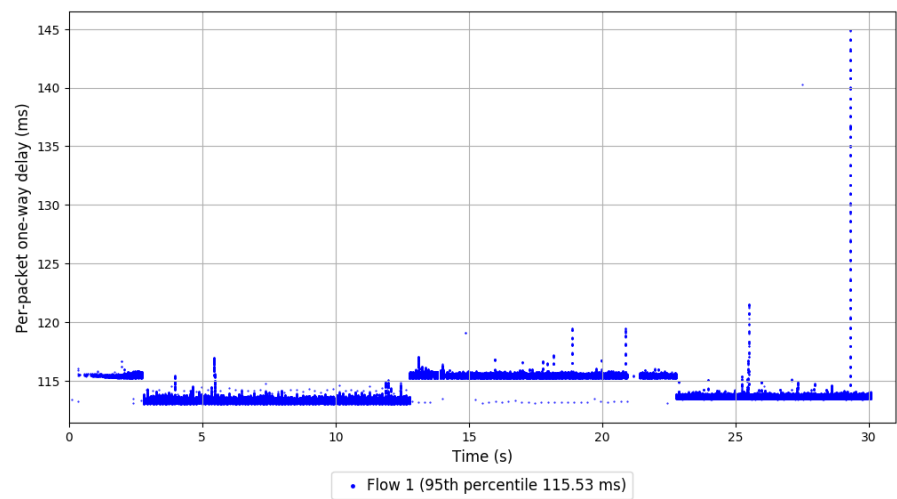
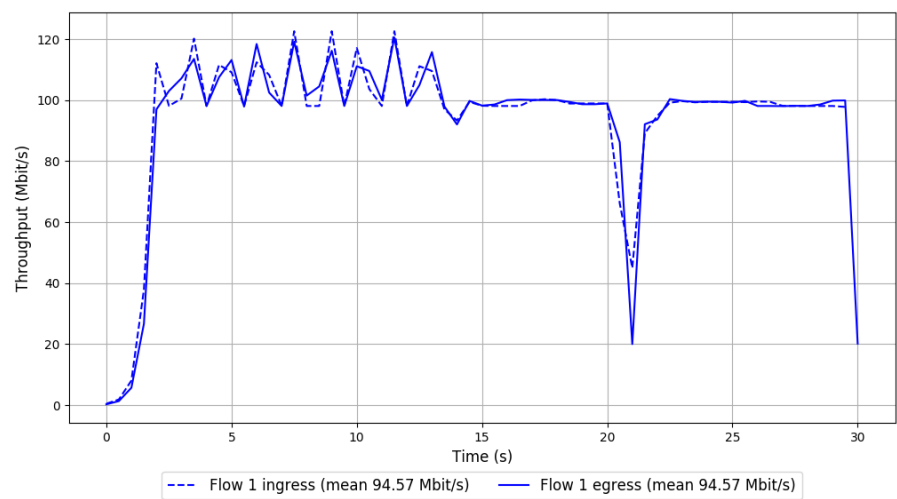
scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	94.92	113.34	0.00
TCP Cubic	10	88.28	123.03	0.04
LEDBAT	10	6.51	114.54	0.02
PCC	10	496.08	186.31	1.27
QUIC Cubic	9	50.35	113.61	0.00
SCReAM	10	0.20	113.62	0.00
WebRTC media	10	0.06	113.91	0.00
Sprout	10	2.47	114.28	0.00
TaoVA-100x	9	57.43	114.07	0.00
TCP Vegas	10	96.25	122.30	0.00
Verus	10	174.53	188.01	0.77
Copa	10	71.19	113.89	0.00
FillP	10	627.73	212.04	4.95
Indigo-1-32	10	155.51	113.58	0.00
Vivace-latency	10	287.44	153.64	0.27
Vivace-loss	10	250.78	268.16	4.65
Vivace-LTE	10	305.21	177.79	0.40

```
Run 1: Statistics of TCP BBR

Start at: 2018-04-10 07:09:57
End at: 2018-04-10 07:10:27

# Below is generated by plot.py at 2018-04-10 10:46:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.57 Mbit/s
95th percentile per-packet one-way delay: 115.535 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 94.57 Mbit/s
95th percentile per-packet one-way delay: 115.535 ms
Loss rate: 0.00%
```

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-04-10 07:25:31

End at: 2018-04-10 07:26:01

Below is generated by plot.py at 2018-04-10 10:46:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.98 Mbit/s

95th percentile per-packet one-way delay: 112.305 ms

Loss rate: 0.00%

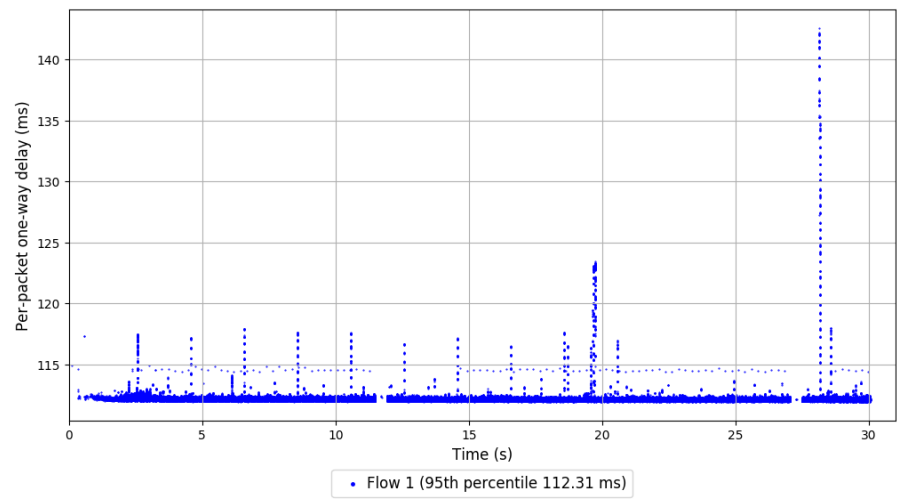
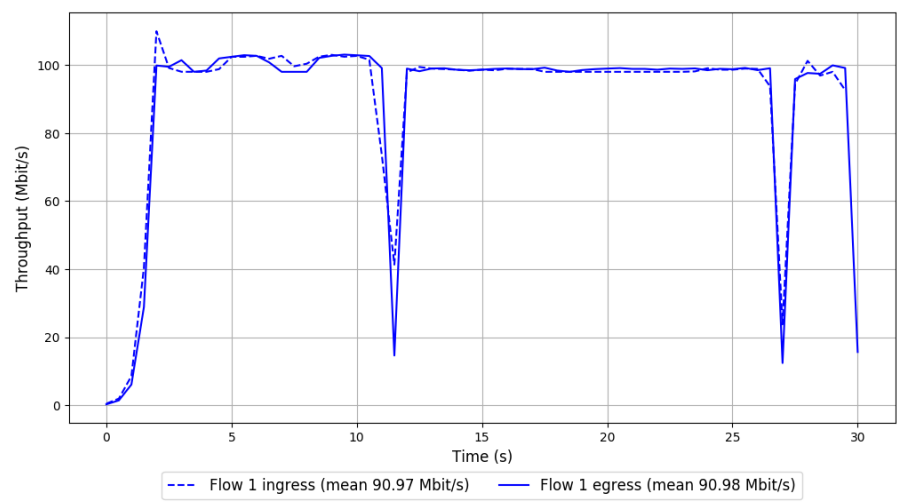
-- Flow 1:

Average throughput: 90.98 Mbit/s

95th percentile per-packet one-way delay: 112.305 ms

Loss rate: 0.00%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-04-10 07:40:33

End at: 2018-04-10 07:41:03

Below is generated by plot.py at 2018-04-10 10:46:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 98.68 Mbit/s

95th percentile per-packet one-way delay: 111.919 ms

Loss rate: 0.00%

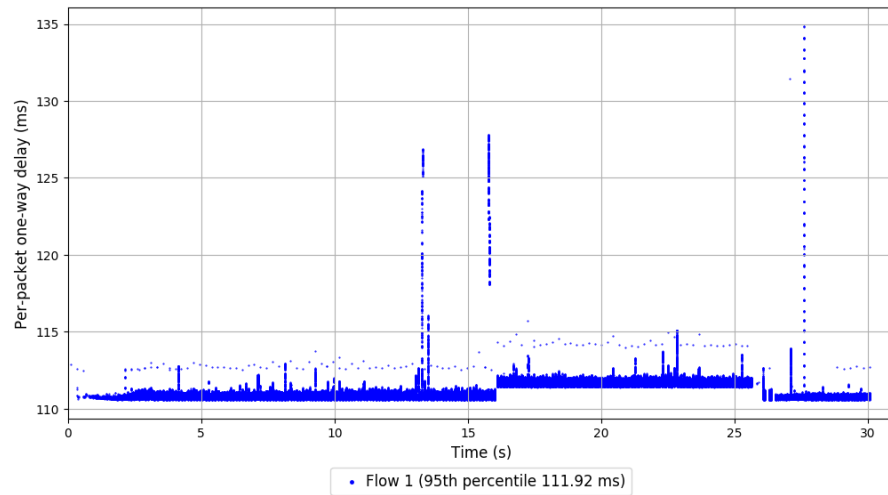
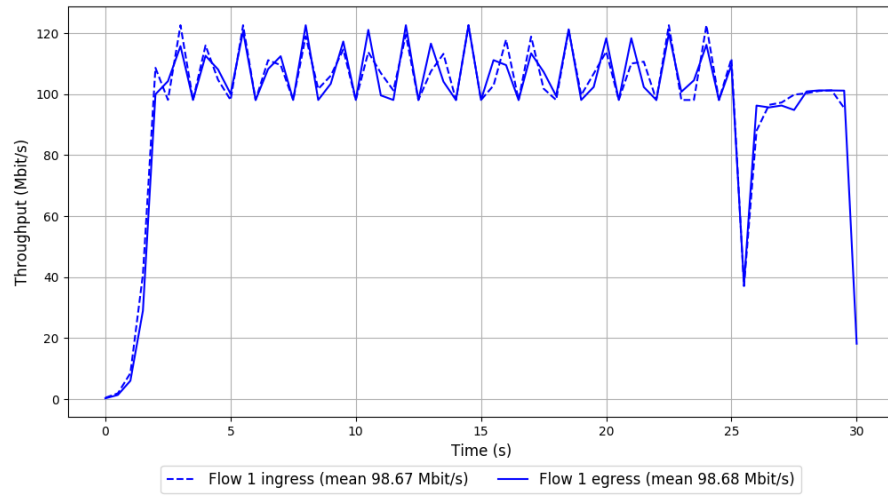
-- Flow 1:

Average throughput: 98.68 Mbit/s

95th percentile per-packet one-way delay: 111.919 ms

Loss rate: 0.00%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-04-10 07:55:39

End at: 2018-04-10 07:56:09

Below is generated by plot.py at 2018-04-10 10:46:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.74 Mbit/s

95th percentile per-packet one-way delay: 114.704 ms

Loss rate: 0.00%

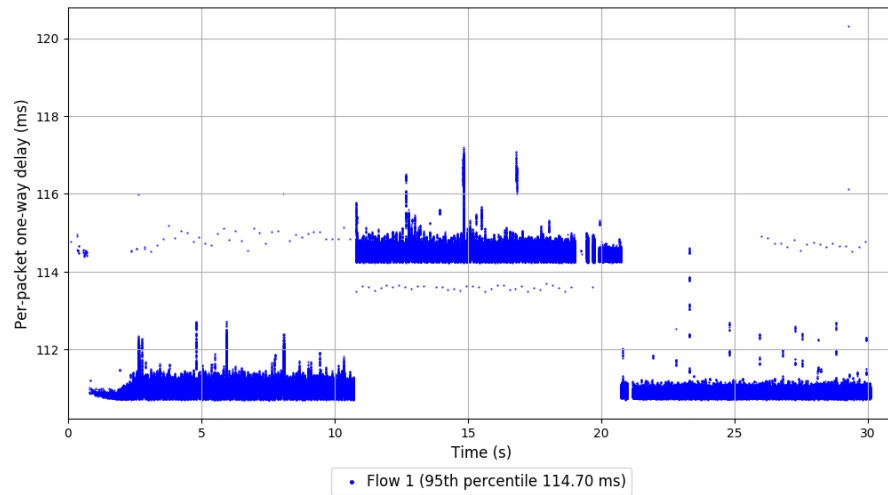
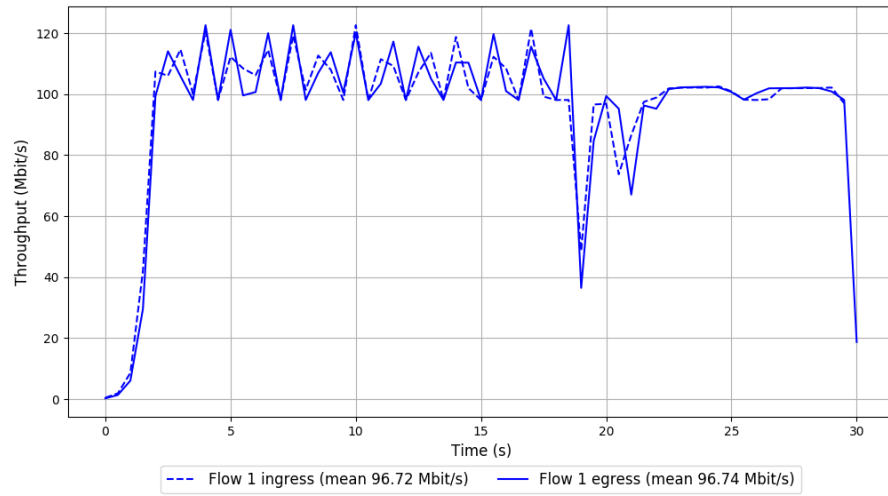
-- Flow 1:

Average throughput: 96.74 Mbit/s

95th percentile per-packet one-way delay: 114.704 ms

Loss rate: 0.00%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-04-10 08:10:34

End at: 2018-04-10 08:11:04

Below is generated by plot.py at 2018-04-10 10:46:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.33 Mbit/s

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

Loss rate: 0.00%

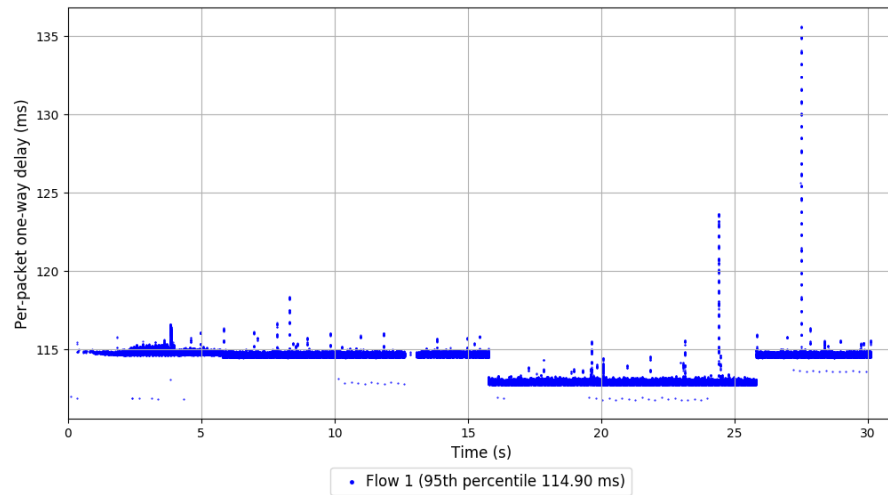
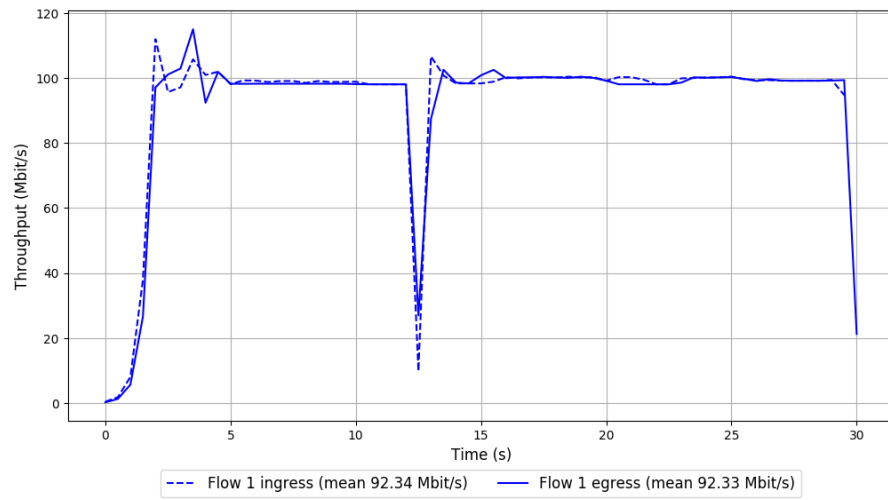
-- Flow 1:

Average throughput: 92.33 Mbit/s

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

Loss rate: 0.00%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-04-10 08:25:07

End at: 2018-04-10 08:25:37

Below is generated by plot.py at 2018-04-10 10:46:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 98.47 Mbit/s

95th percentile per-packet one-way delay: 114.442 ms

Loss rate: 0.00%

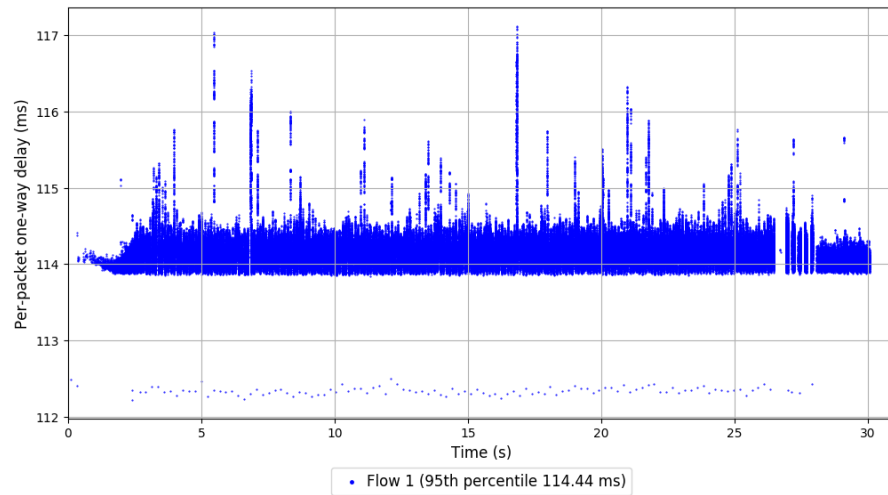
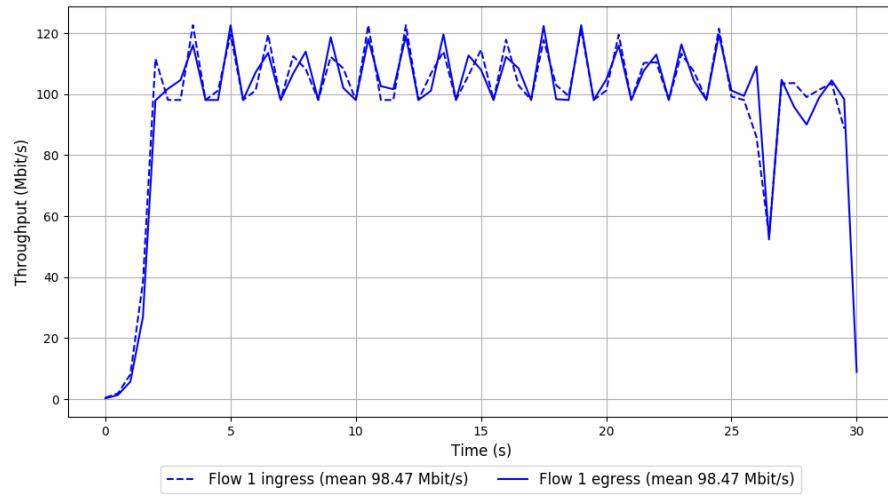
-- Flow 1:

Average throughput: 98.47 Mbit/s

95th percentile per-packet one-way delay: 114.442 ms

Loss rate: 0.00%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-04-10 08:40:08

End at: 2018-04-10 08:40:38

Below is generated by plot.py at 2018-04-10 10:46:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.98 Mbit/s

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

Loss rate: 0.00%

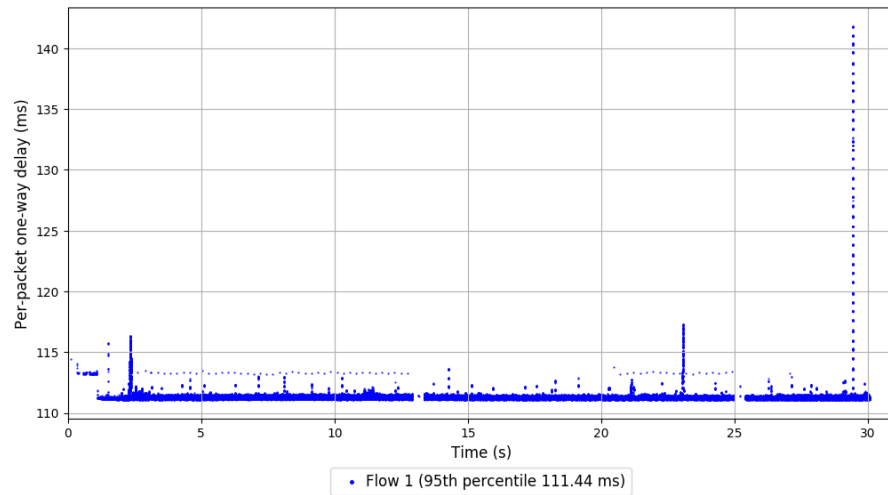
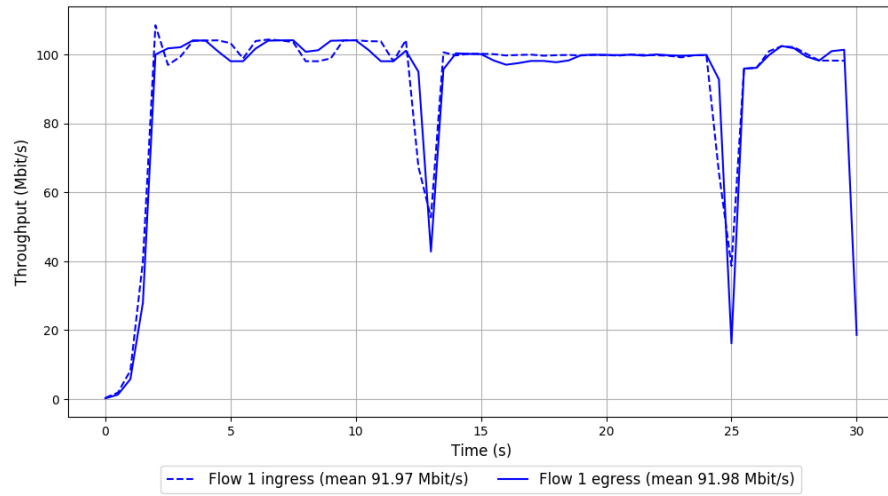
-- Flow 1:

Average throughput: 91.98 Mbit/s

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

Loss rate: 0.00%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-04-10 08:55:47

End at: 2018-04-10 08:56:17

Below is generated by plot.py at 2018-04-10 10:46:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.98 Mbit/s

95th percentile per-packet one-way delay: 113.270 ms

Loss rate: 0.00%

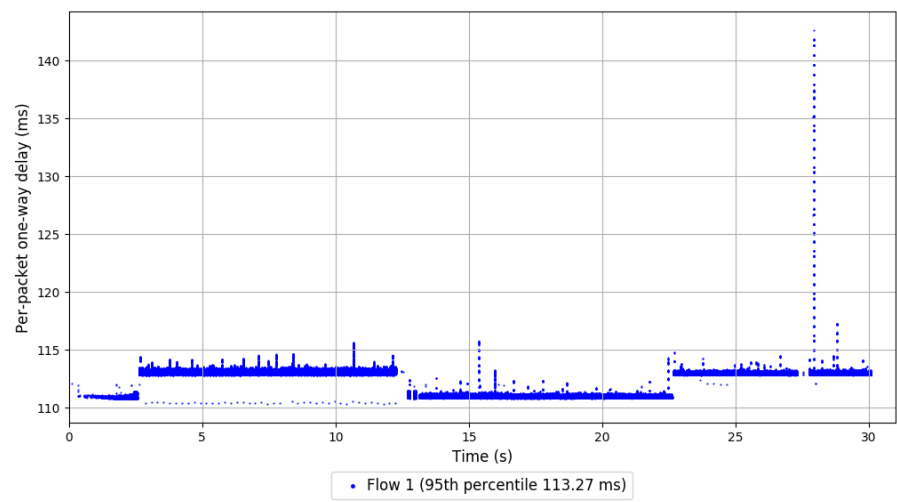
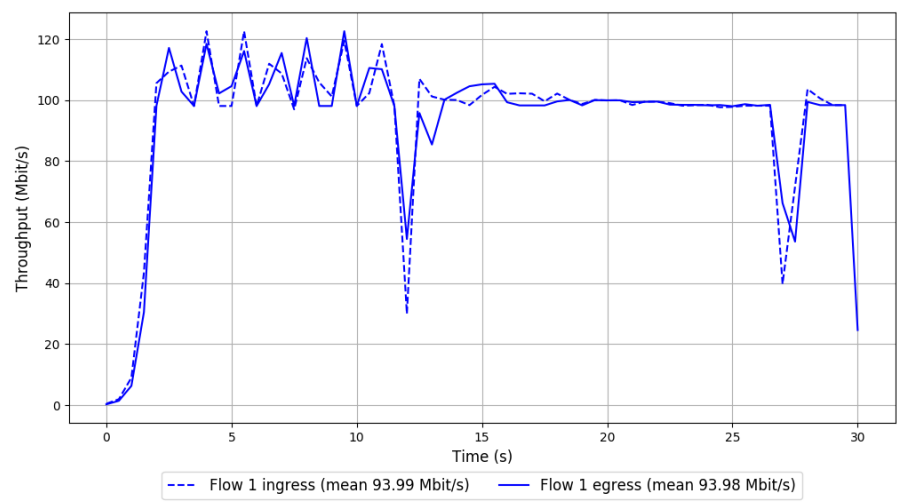
-- Flow 1:

Average throughput: 93.98 Mbit/s

95th percentile per-packet one-way delay: 113.270 ms

Loss rate: 0.00%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-04-10 09:10:46

End at: 2018-04-10 09:11:16

Below is generated by plot.py at 2018-04-10 10:47:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.04 Mbit/s

95th percentile per-packet one-way delay: 113.066 ms

Loss rate: 0.00%

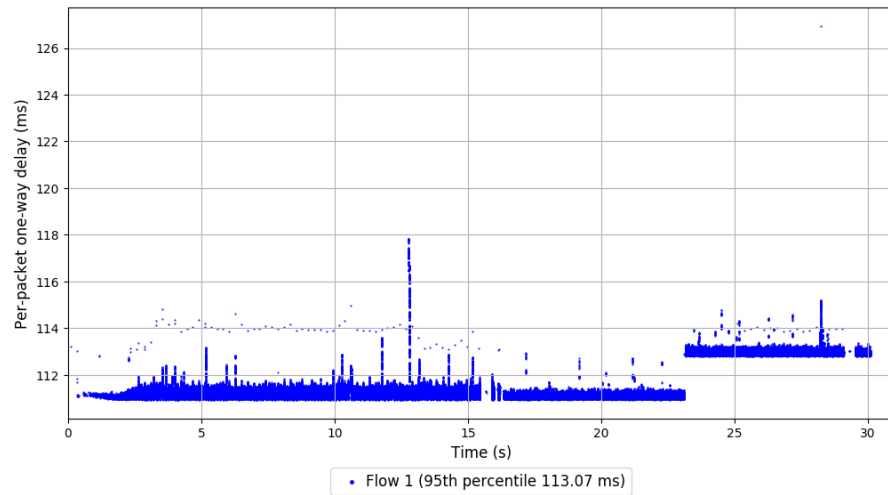
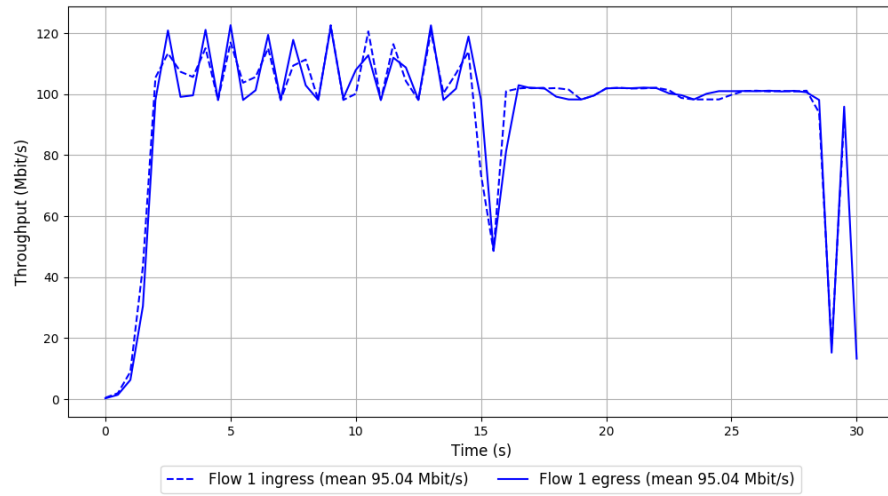
-- Flow 1:

Average throughput: 95.04 Mbit/s

95th percentile per-packet one-way delay: 113.066 ms

Loss rate: 0.00%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-04-10 09:26:03

End at: 2018-04-10 09:26:33

Below is generated by plot.py at 2018-04-10 10:47:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.48 Mbit/s

95th percentile per-packet one-way delay: 111.838 ms

Loss rate: 0.00%

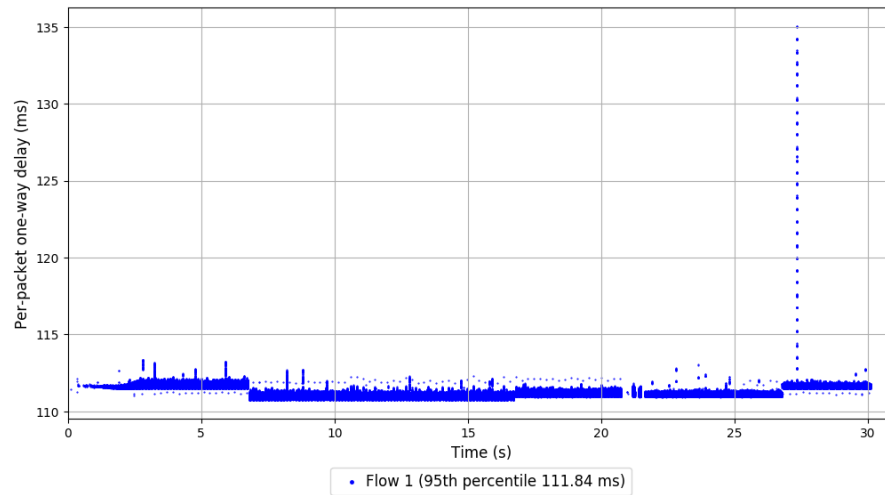
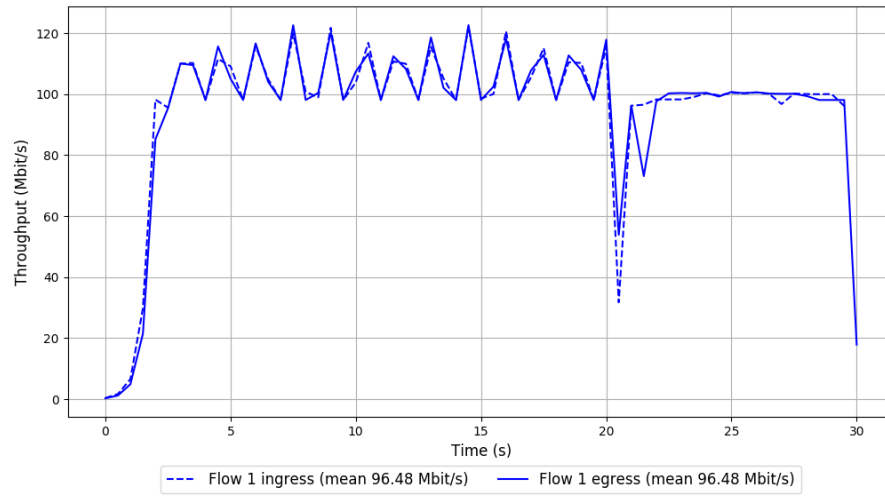
-- Flow 1:

Average throughput: 96.48 Mbit/s

95th percentile per-packet one-way delay: 111.838 ms

Loss rate: 0.00%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-04-10 07:09:09

End at: 2018-04-10 07:09:39

Below is generated by plot.py at 2018-04-10 10:47:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 102.17 Mbit/s

95th percentile per-packet one-way delay: 123.799 ms

Loss rate: 0.00%

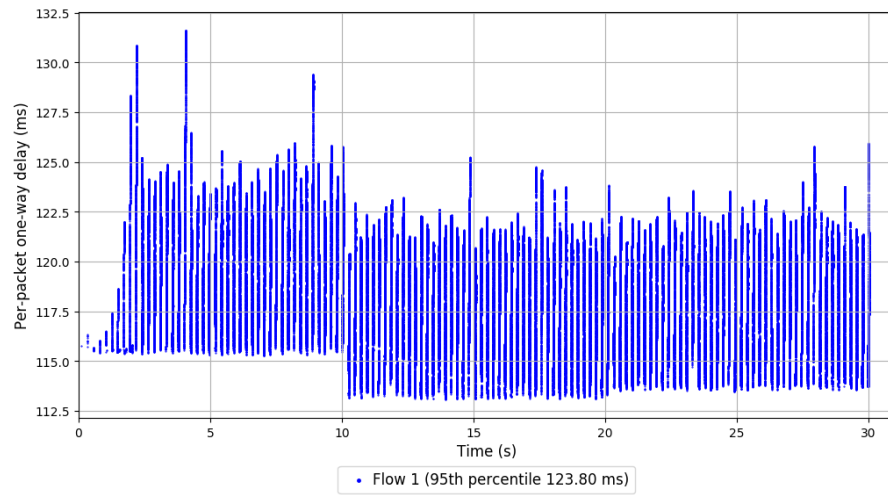
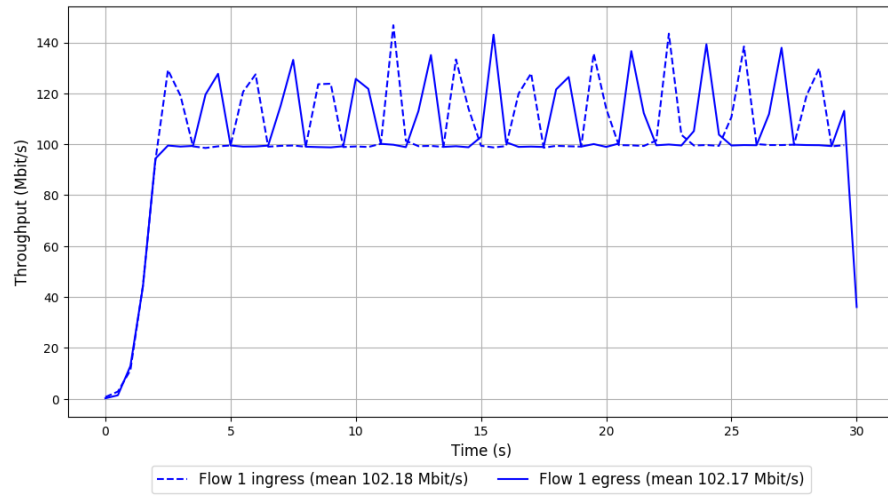
-- Flow 1:

Average throughput: 102.17 Mbit/s

95th percentile per-packet one-way delay: 123.799 ms

Loss rate: 0.00%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-04-10 07:24:43

End at: 2018-04-10 07:25:13

Below is generated by plot.py at 2018-04-10 10:47:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 104.77 Mbit/s

95th percentile per-packet one-way delay: 122.931 ms

Loss rate: 0.07%

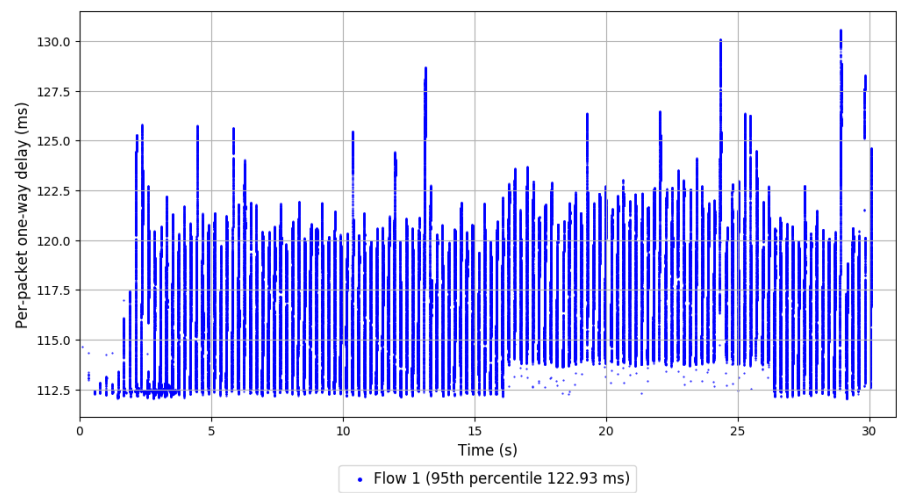
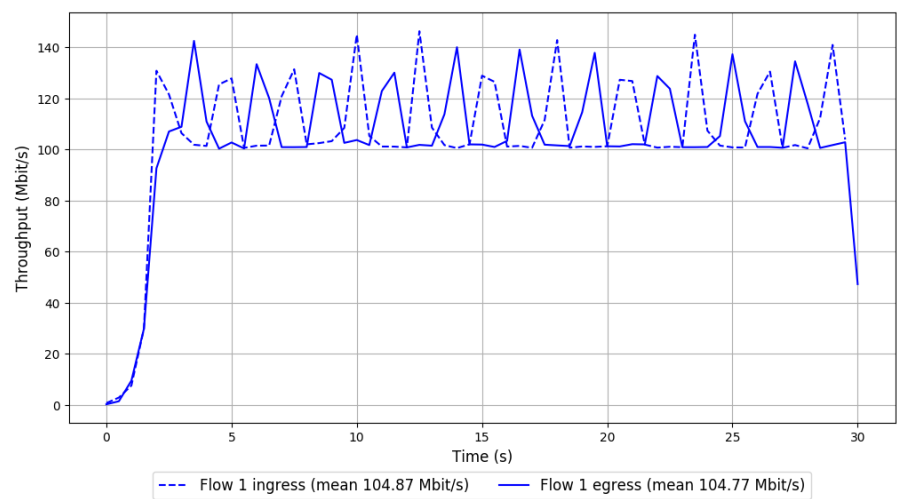
-- Flow 1:

Average throughput: 104.77 Mbit/s

95th percentile per-packet one-way delay: 122.931 ms

Loss rate: 0.07%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-04-10 07:39:48

End at: 2018-04-10 07:40:18

Below is generated by plot.py at 2018-04-10 10:47:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 70.80 Mbit/s

95th percentile per-packet one-way delay: 122.609 ms

Loss rate: 0.19%

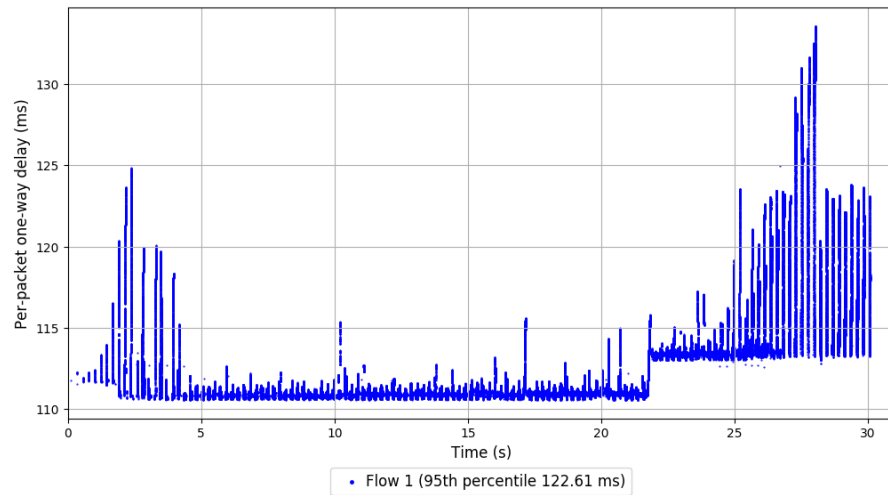
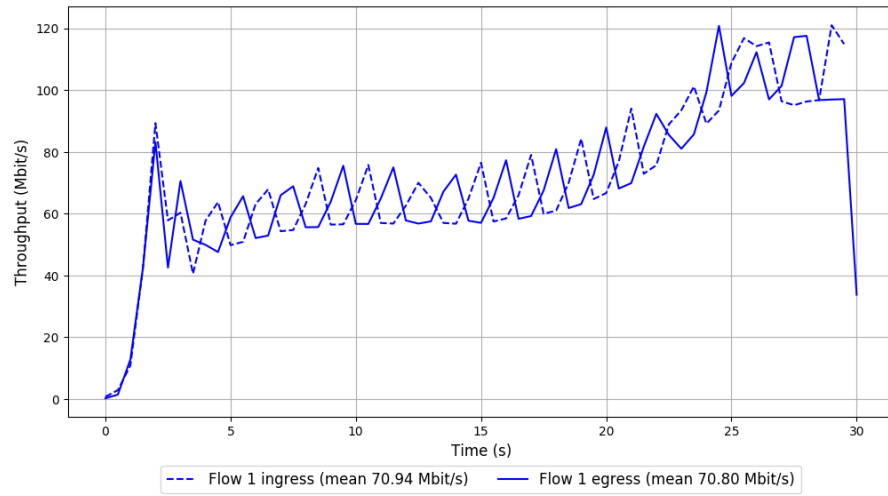
-- Flow 1:

Average throughput: 70.80 Mbit/s

95th percentile per-packet one-way delay: 122.609 ms

Loss rate: 0.19%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-04-10 07:54:53

End at: 2018-04-10 07:55:23

Below is generated by plot.py at 2018-04-10 10:47:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.88 Mbit/s

95th percentile per-packet one-way delay: 126.643 ms

Loss rate: 0.00%

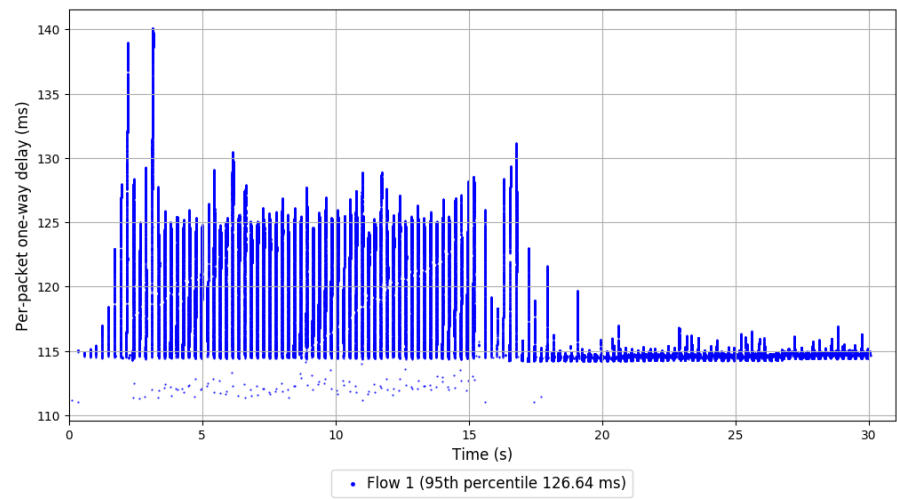
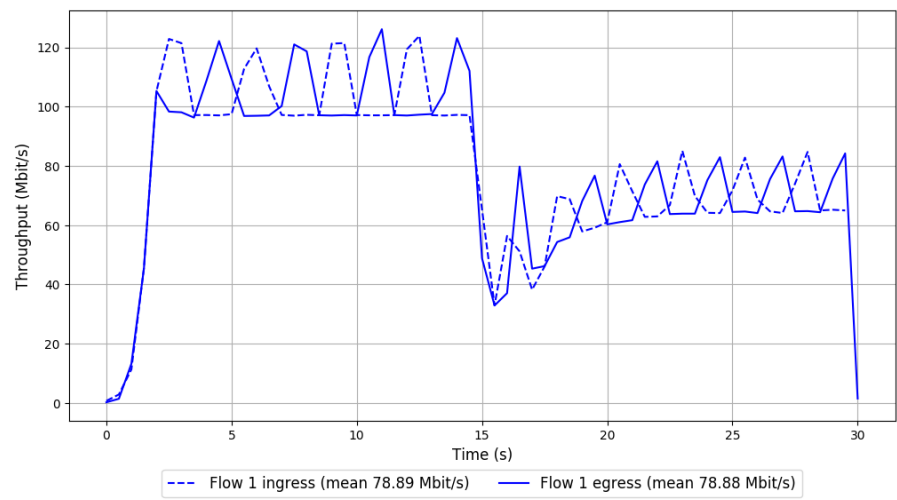
-- Flow 1:

Average throughput: 78.88 Mbit/s

95th percentile per-packet one-way delay: 126.643 ms

Loss rate: 0.00%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-04-10 08:09:47

End at: 2018-04-10 08:10:17

Below is generated by plot.py at 2018-04-10 10:47:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 102.37 Mbit/s

95th percentile per-packet one-way delay: 123.915 ms

Loss rate: 0.06%

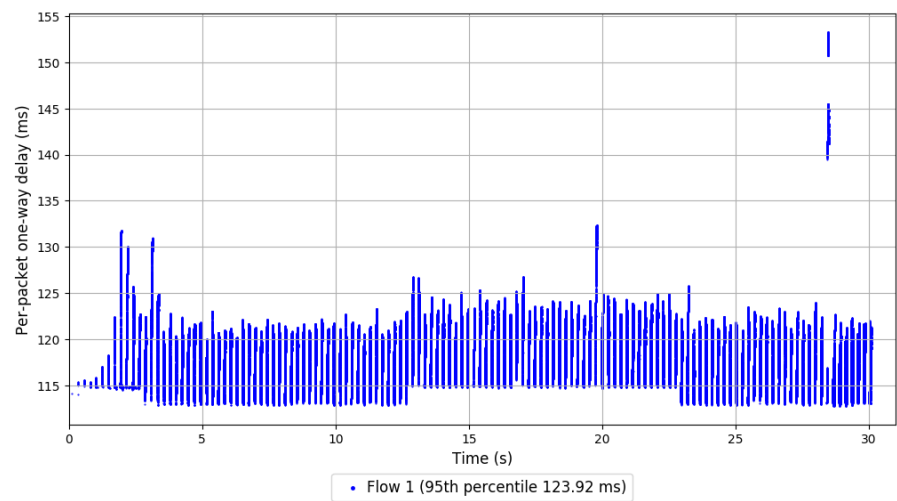
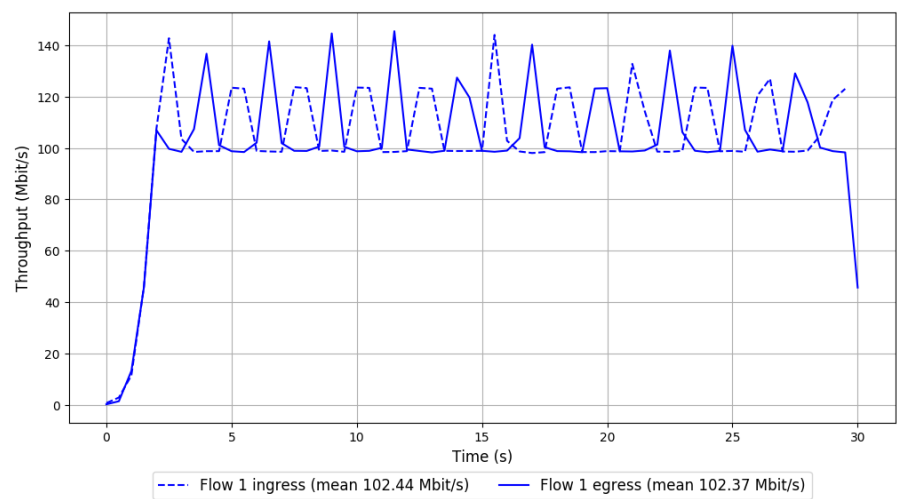
-- Flow 1:

Average throughput: 102.37 Mbit/s

95th percentile per-packet one-way delay: 123.915 ms

Loss rate: 0.06%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-04-10 08:24:22

End at: 2018-04-10 08:24:52

Below is generated by plot.py at 2018-04-10 10:47:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.85 Mbit/s

95th percentile per-packet one-way delay: 123.543 ms

Loss rate: 0.04%

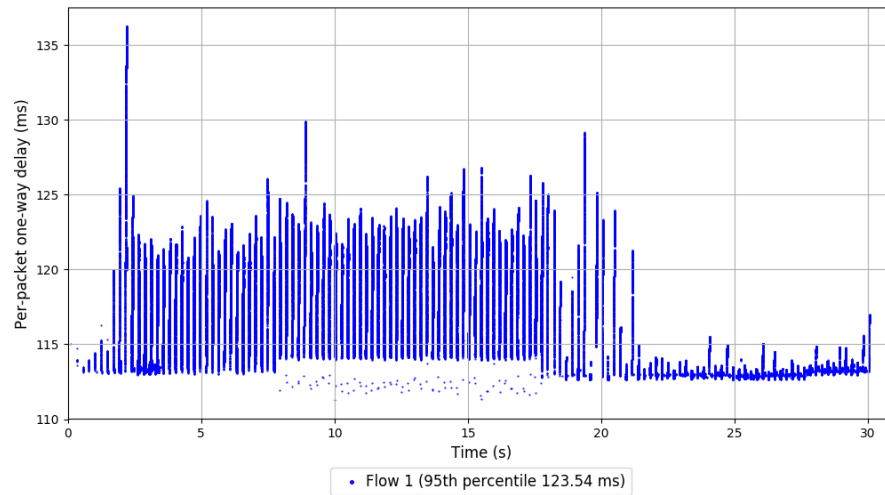
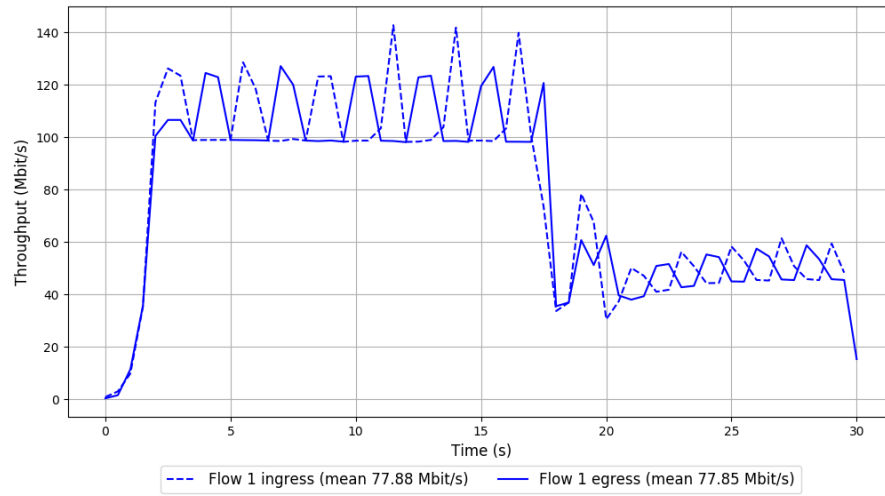
-- Flow 1:

Average throughput: 77.85 Mbit/s

95th percentile per-packet one-way delay: 123.543 ms

Loss rate: 0.04%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-04-10 08:39:21

End at: 2018-04-10 08:39:51

Below is generated by plot.py at 2018-04-10 10:48:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 101.42 Mbit/s

95th percentile per-packet one-way delay: 121.843 ms

Loss rate: 0.00%

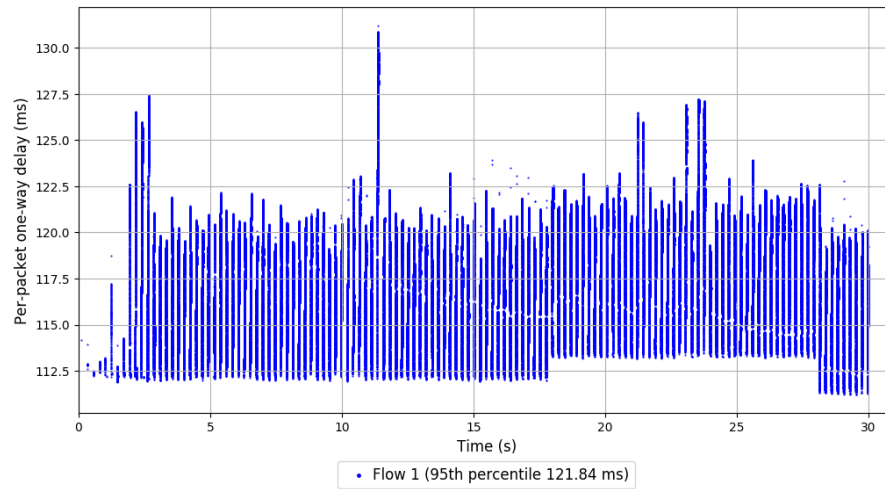
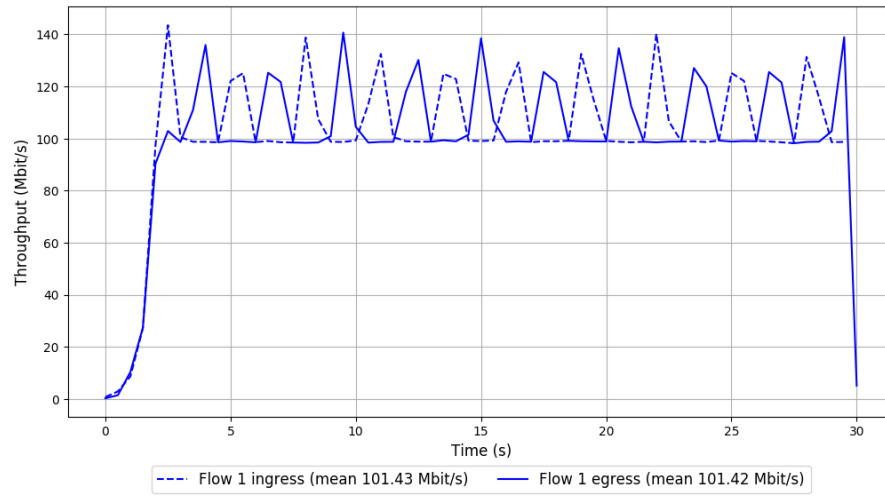
-- Flow 1:

Average throughput: 101.42 Mbit/s

95th percentile per-packet one-way delay: 121.843 ms

Loss rate: 0.00%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-04-10 08:55:02

End at: 2018-04-10 08:55:32

Below is generated by plot.py at 2018-04-10 10:48:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.03 Mbit/s

95th percentile per-packet one-way delay: 122.607 ms

Loss rate: 0.00%

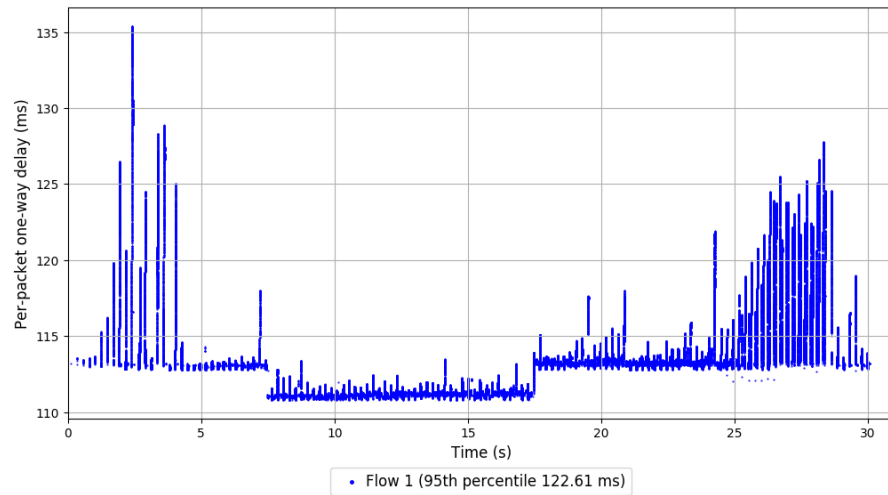
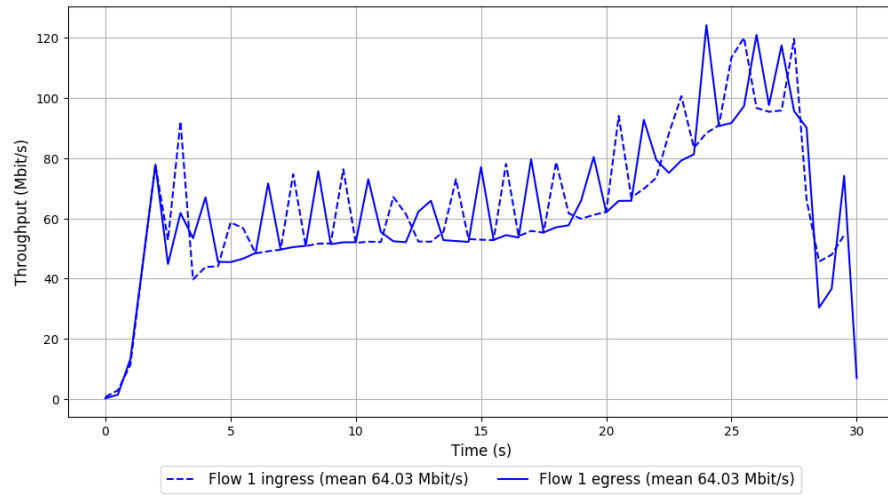
-- Flow 1:

Average throughput: 64.03 Mbit/s

95th percentile per-packet one-way delay: 122.607 ms

Loss rate: 0.00%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-04-10 09:10:00

End at: 2018-04-10 09:10:30

Below is generated by plot.py at 2018-04-10 10:48:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.82 Mbit/s

95th percentile per-packet one-way delay: 121.608 ms

Loss rate: 0.00%

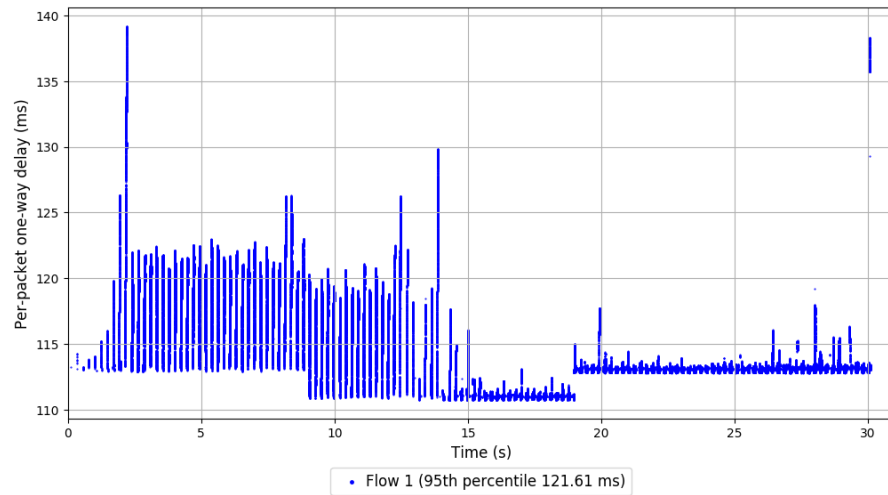
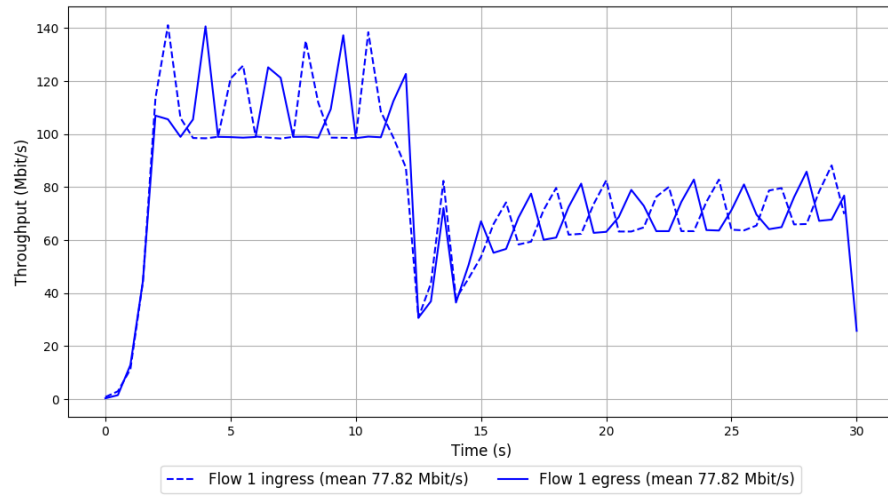
-- Flow 1:

Average throughput: 77.82 Mbit/s

95th percentile per-packet one-way delay: 121.608 ms

Loss rate: 0.00%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-04-10 09:25:16

End at: 2018-04-10 09:25:46

Below is generated by plot.py at 2018-04-10 10:49:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 102.65 Mbit/s

95th percentile per-packet one-way delay: 120.836 ms

Loss rate: 0.00%

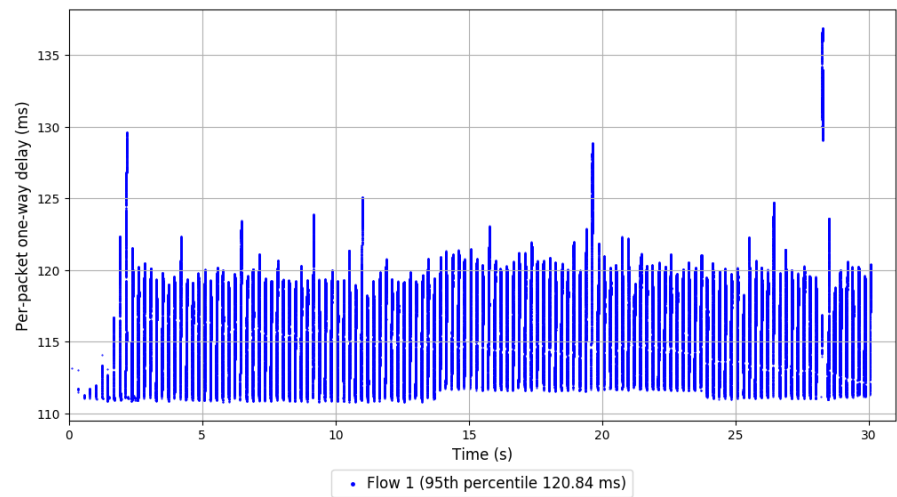
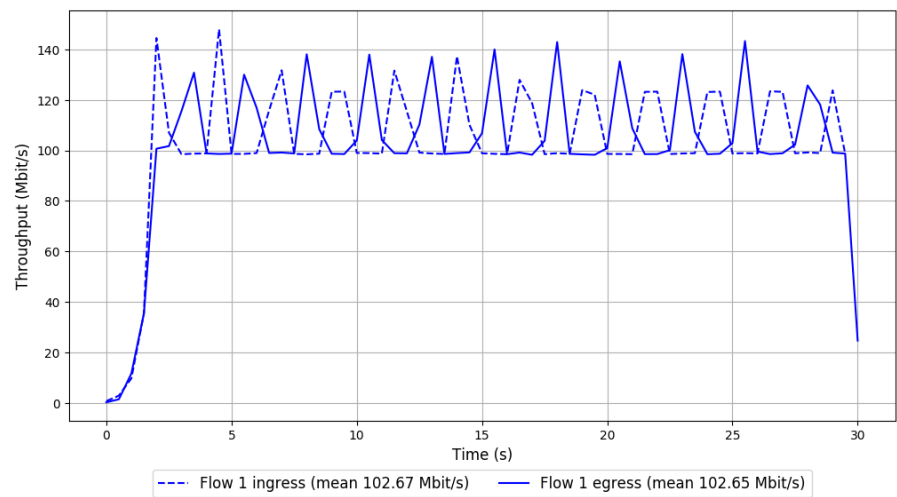
-- Flow 1:

Average throughput: 102.65 Mbit/s

95th percentile per-packet one-way delay: 120.836 ms

Loss rate: 0.00%

Run 10: Report of TCP Cubic — Data Link

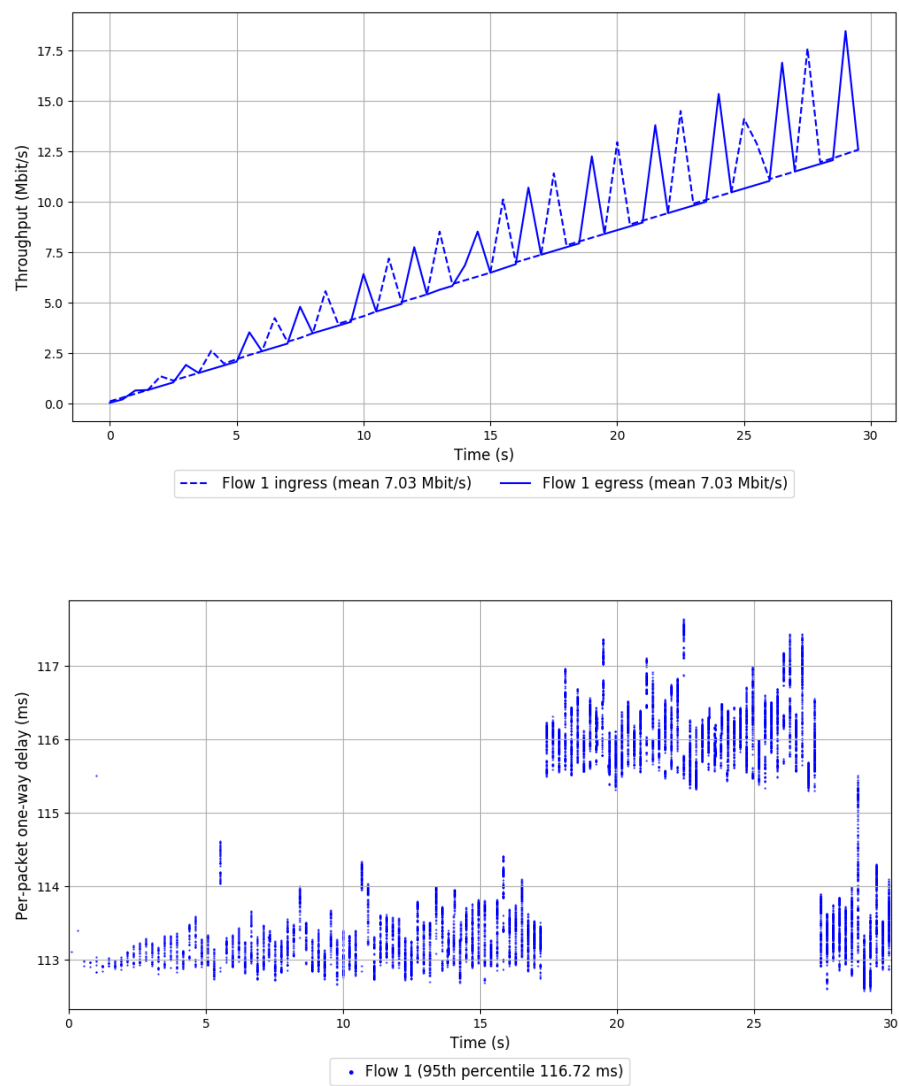


```
Run 1: Statistics of LEDBAT

Start at: 2018-04-10 07:16:42
End at: 2018-04-10 07:17:12

# Below is generated by plot.py at 2018-04-10 10:49:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.03 Mbit/s
95th percentile per-packet one-way delay: 116.716 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.03 Mbit/s
95th percentile per-packet one-way delay: 116.716 ms
Loss rate: 0.00%
```

Run 1: Report of LEDBAT — Data Link

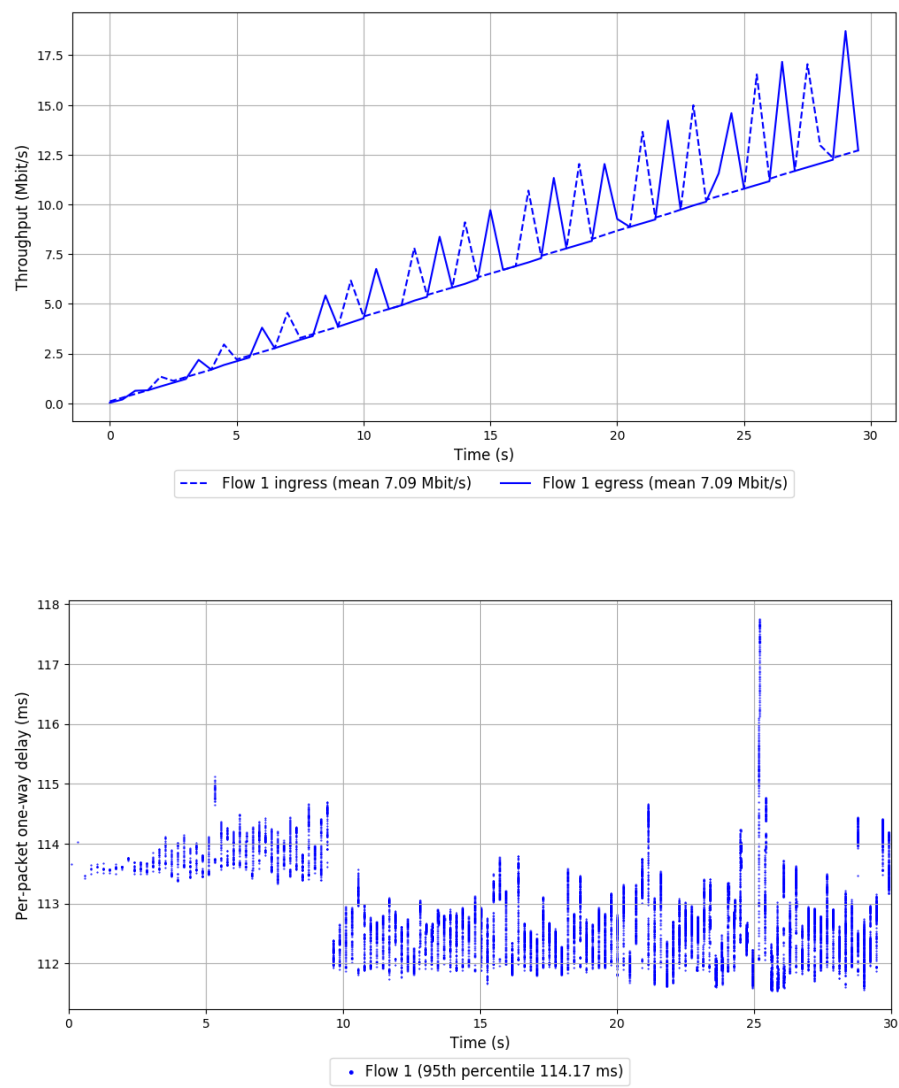


```
Run 2: Statistics of LEDBAT

Start at: 2018-04-10 07:31:50
End at: 2018-04-10 07:32:20

# Below is generated by plot.py at 2018-04-10 10:49:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.09 Mbit/s
95th percentile per-packet one-way delay: 114.175 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.09 Mbit/s
95th percentile per-packet one-way delay: 114.175 ms
Loss rate: 0.00%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-04-10 07:46:59

End at: 2018-04-10 07:47:29

Below is generated by plot.py at 2018-04-10 10:49:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.03 Mbit/s

95th percentile per-packet one-way delay: 115.664 ms

Loss rate: 0.00%

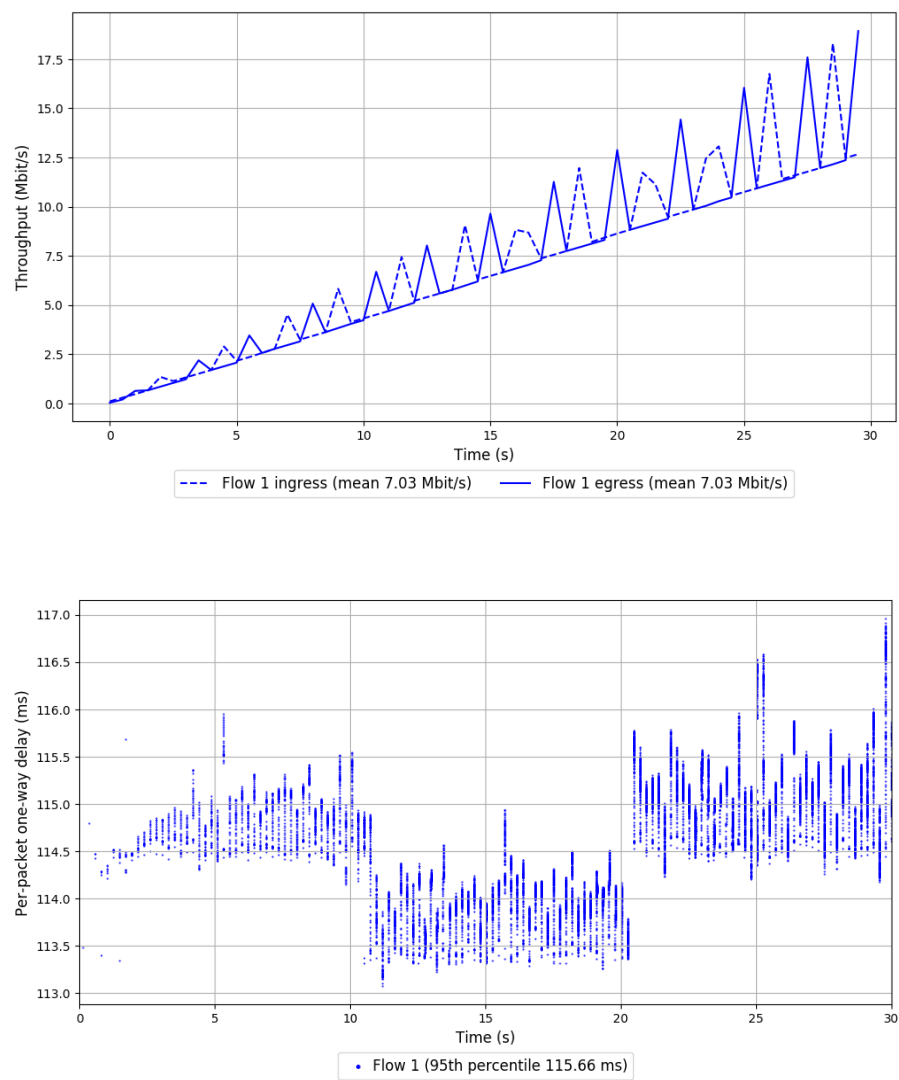
-- Flow 1:

Average throughput: 7.03 Mbit/s

95th percentile per-packet one-way delay: 115.664 ms

Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-04-10 08:01:50

End at: 2018-04-10 08:02:20

Below is generated by plot.py at 2018-04-10 10:49:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.05 Mbit/s

95th percentile per-packet one-way delay: 115.609 ms

Loss rate: 0.00%

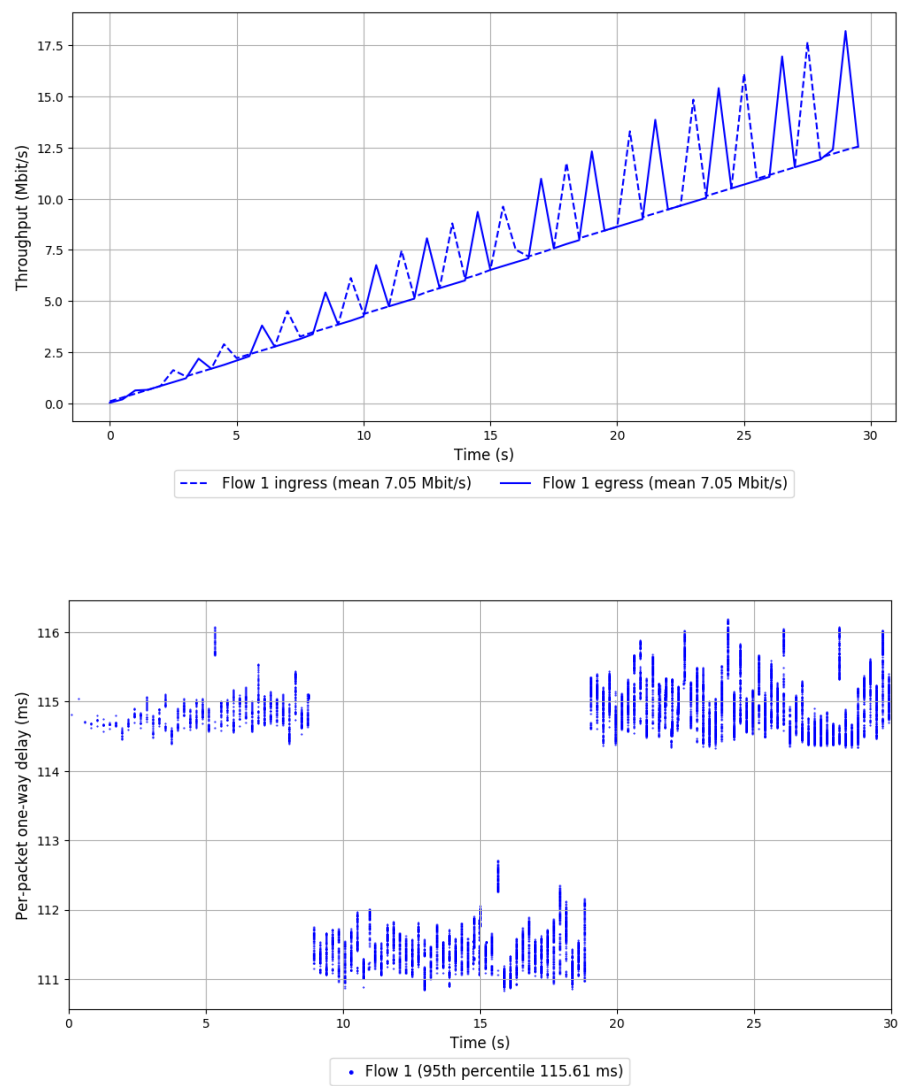
-- Flow 1:

Average throughput: 7.05 Mbit/s

95th percentile per-packet one-way delay: 115.609 ms

Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-04-10 08:16:55

End at: 2018-04-10 08:17:25

Below is generated by plot.py at 2018-04-10 10:49:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.23 Mbit/s

95th percentile per-packet one-way delay: 114.876 ms

Loss rate: 0.00%

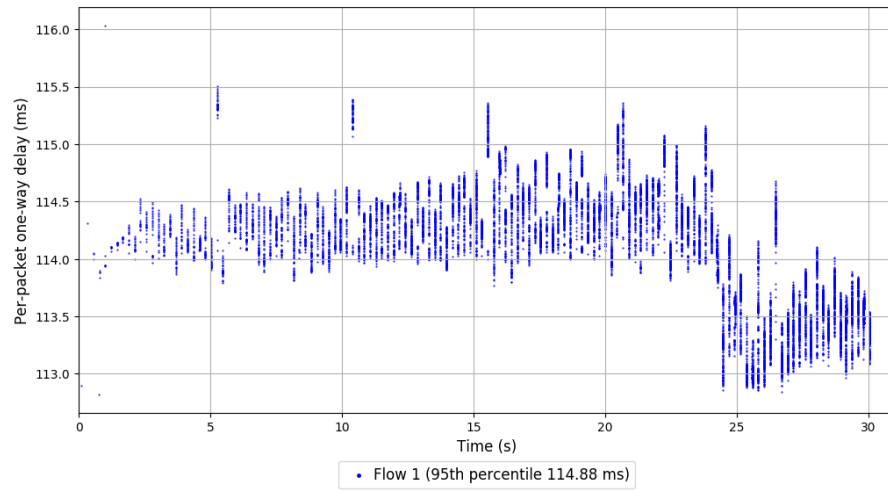
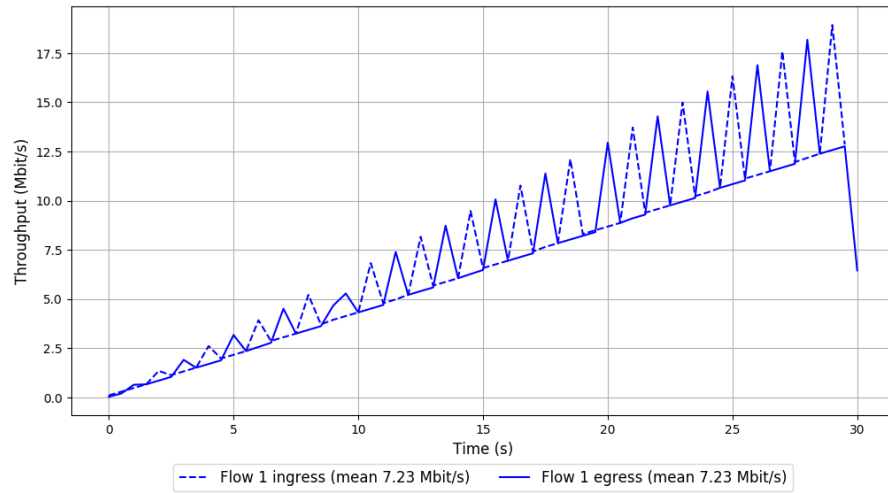
-- Flow 1:

Average throughput: 7.23 Mbit/s

95th percentile per-packet one-way delay: 114.876 ms

Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-04-10 08:31:27

End at: 2018-04-10 08:31:57

Below is generated by plot.py at 2018-04-10 10:49:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.69 Mbit/s

95th percentile per-packet one-way delay: 115.246 ms

Loss rate: 0.00%

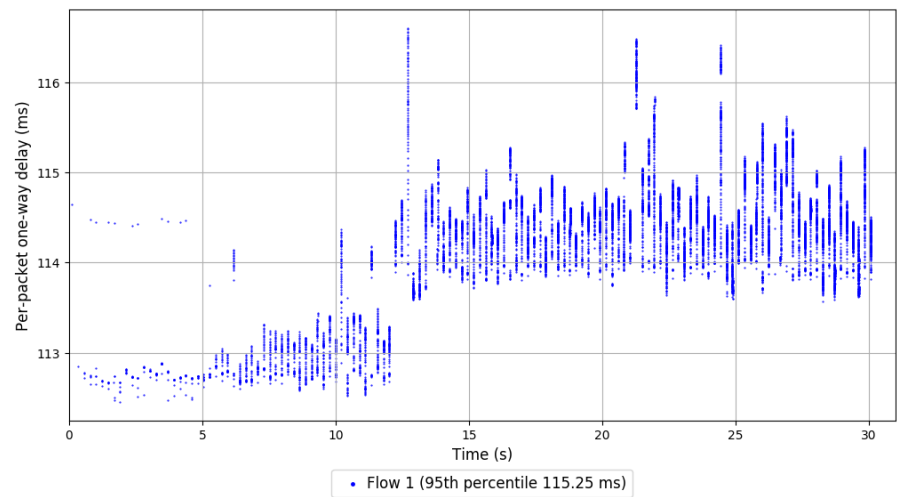
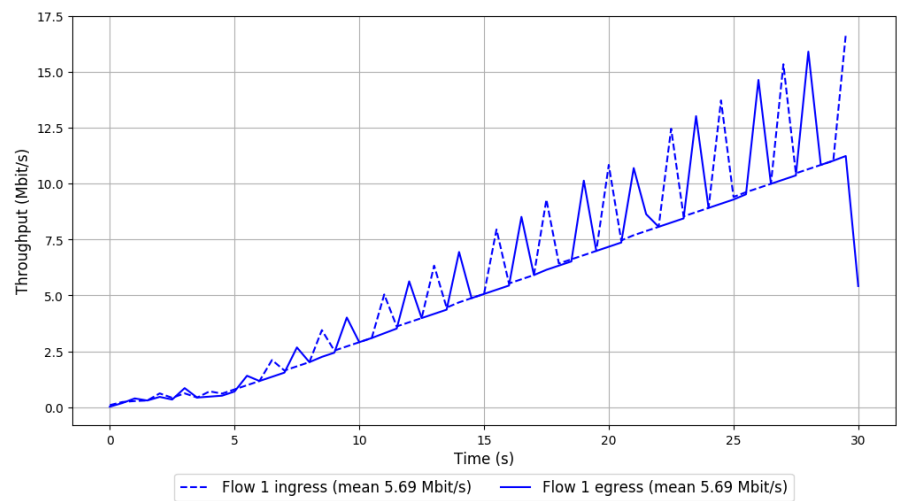
-- Flow 1:

Average throughput: 5.69 Mbit/s

95th percentile per-packet one-way delay: 115.246 ms

Loss rate: 0.00%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-04-10 08:47:04

End at: 2018-04-10 08:47:34

Below is generated by plot.py at 2018-04-10 10:49:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.17 Mbit/s

95th percentile per-packet one-way delay: 113.987 ms

Loss rate: 0.00%

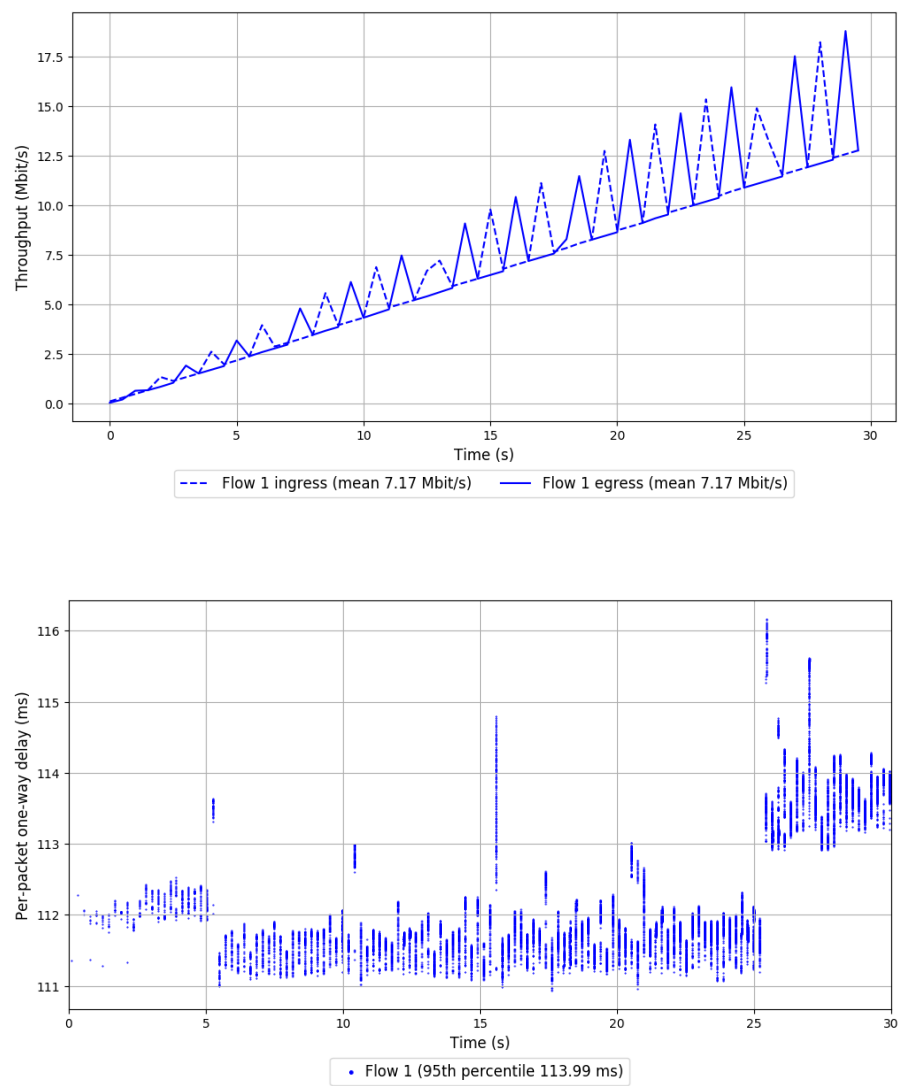
-- Flow 1:

Average throughput: 7.17 Mbit/s

95th percentile per-packet one-way delay: 113.987 ms

Loss rate: 0.00%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-04-10 09:02:05

End at: 2018-04-10 09:02:35

Below is generated by plot.py at 2018-04-10 10:49:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.81 Mbit/s

95th percentile per-packet one-way delay: 114.045 ms

Loss rate: 0.16%

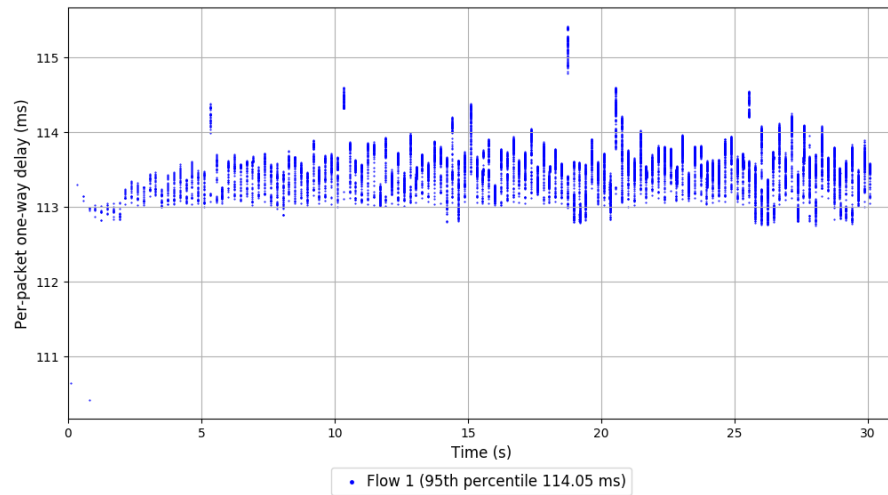
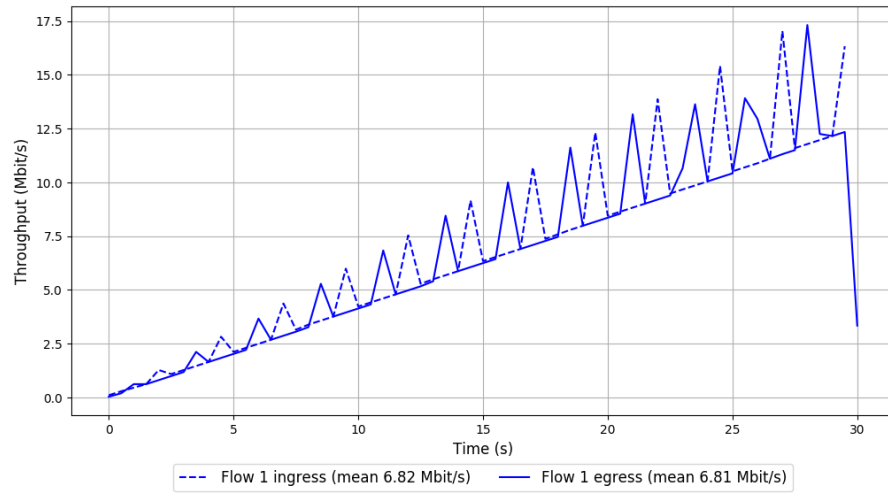
-- Flow 1:

Average throughput: 6.81 Mbit/s

95th percentile per-packet one-way delay: 114.045 ms

Loss rate: 0.16%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-04-10 09:17:21

End at: 2018-04-10 09:17:51

Below is generated by plot.py at 2018-04-10 10:49:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.04 Mbit/s

95th percentile per-packet one-way delay: 112.082 ms

Loss rate: 0.00%

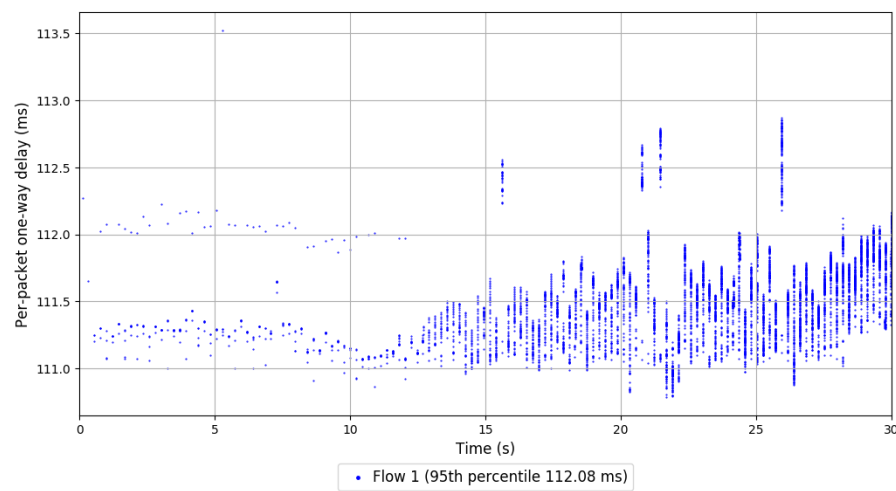
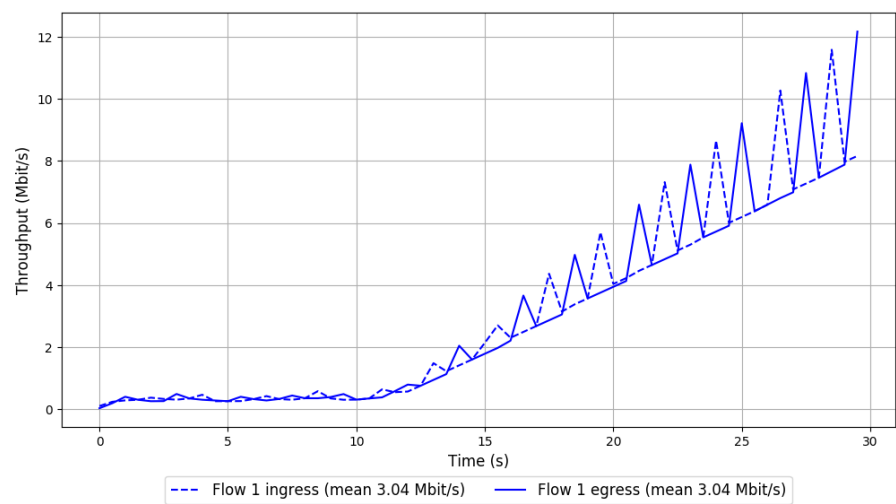
-- Flow 1:

Average throughput: 3.04 Mbit/s

95th percentile per-packet one-way delay: 112.082 ms

Loss rate: 0.00%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-04-10 09:32:39

End at: 2018-04-10 09:33:09

Below is generated by plot.py at 2018-04-10 10:49:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.97 Mbit/s

95th percentile per-packet one-way delay: 112.992 ms

Loss rate: 0.00%

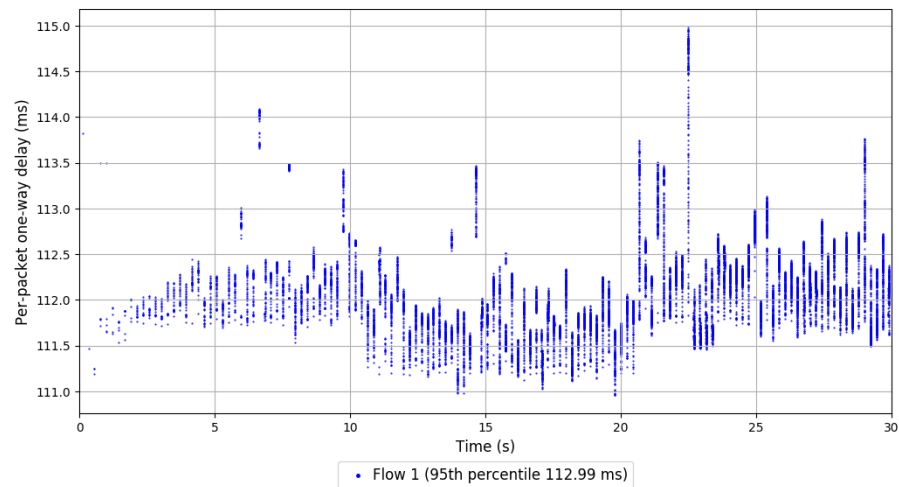
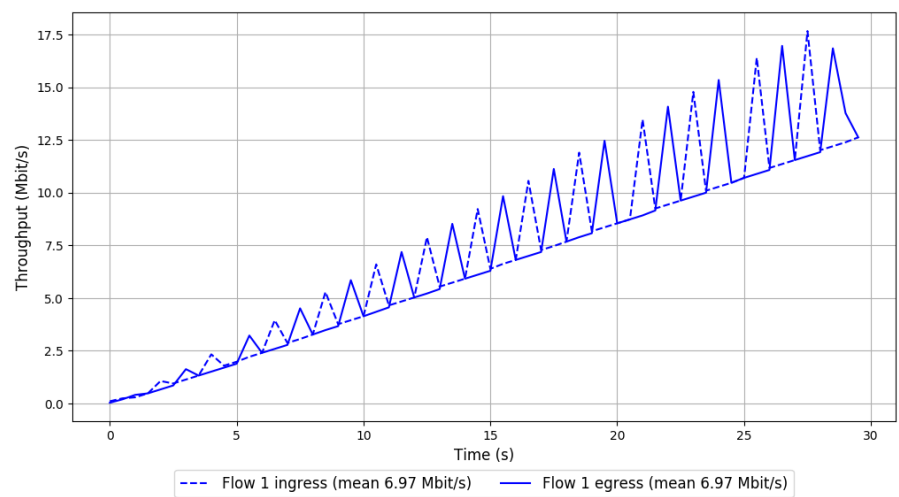
-- Flow 1:

Average throughput: 6.97 Mbit/s

95th percentile per-packet one-way delay: 112.992 ms

Loss rate: 0.00%

Run 10: Report of LEDBAT — Data Link

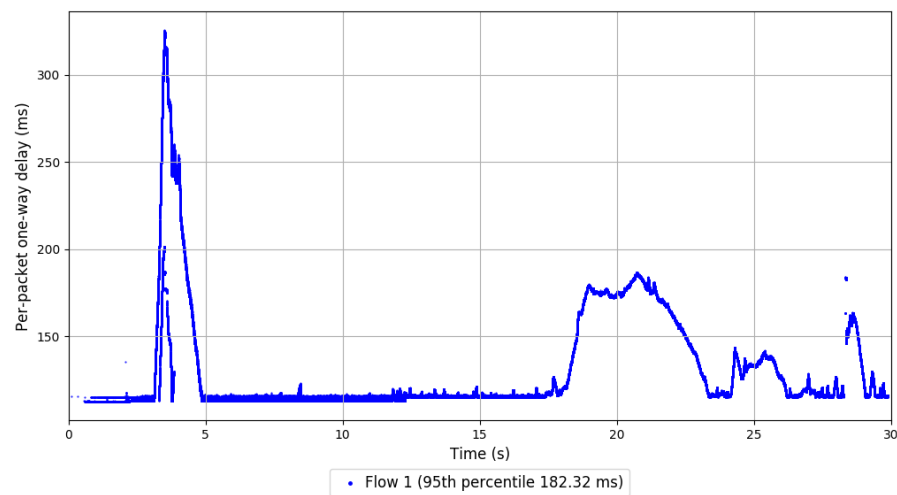
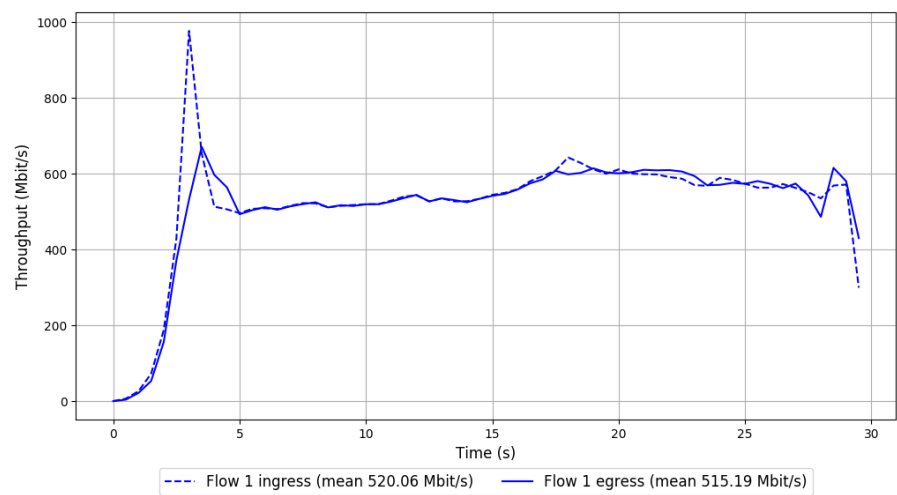


```
Run 1: Statistics of PCC

Start at: 2018-04-10 07:12:47
End at: 2018-04-10 07:13:17

# Below is generated by plot.py at 2018-04-10 10:55:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 515.19 Mbit/s
95th percentile per-packet one-way delay: 182.320 ms
Loss rate: 0.94%
-- Flow 1:
Average throughput: 515.19 Mbit/s
95th percentile per-packet one-way delay: 182.320 ms
Loss rate: 0.94%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2018-04-10 07:28:13

End at: 2018-04-10 07:28:43

Below is generated by plot.py at 2018-04-10 10:55:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 388.64 Mbit/s

95th percentile per-packet one-way delay: 198.824 ms

Loss rate: 1.85%

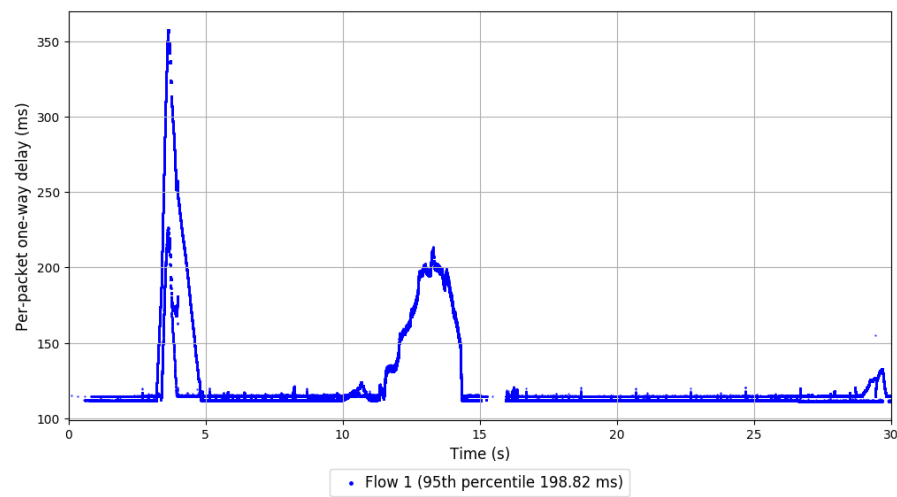
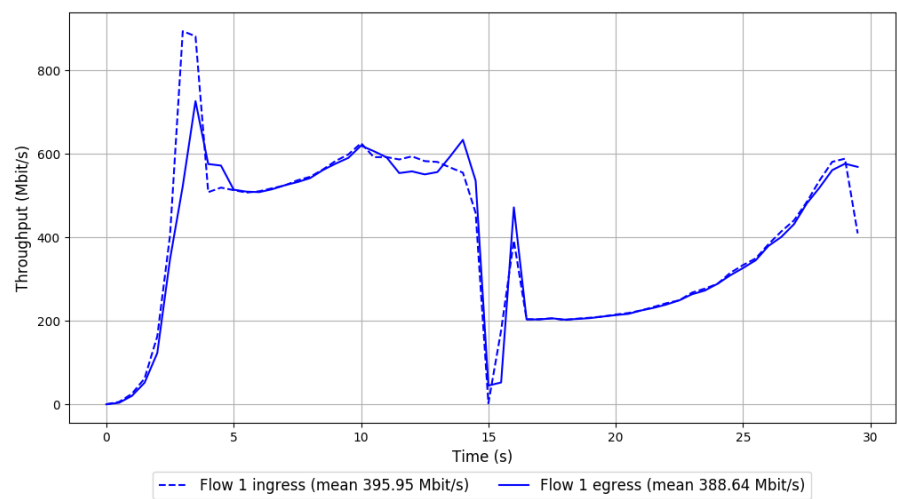
-- Flow 1:

Average throughput: 388.64 Mbit/s

95th percentile per-packet one-way delay: 198.824 ms

Loss rate: 1.85%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-04-10 07:43:15

End at: 2018-04-10 07:43:45

Below is generated by plot.py at 2018-04-10 10:55:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 496.66 Mbit/s

95th percentile per-packet one-way delay: 171.887 ms

Loss rate: 1.34%

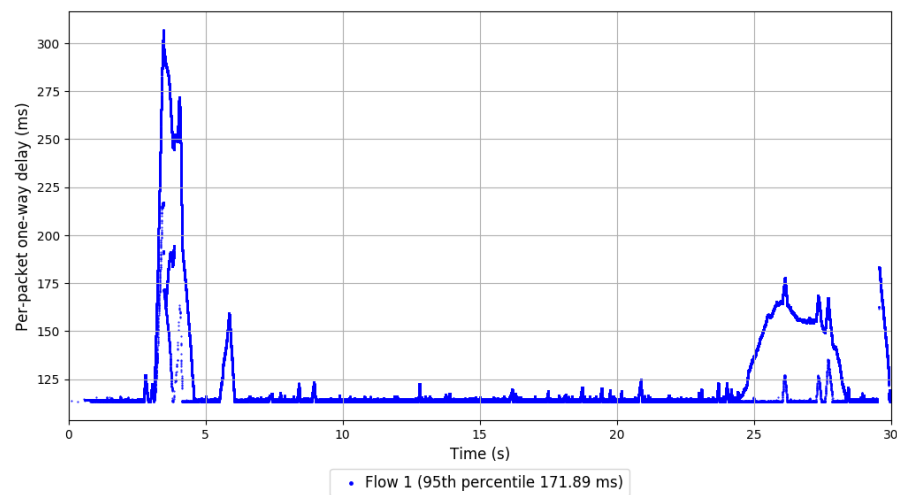
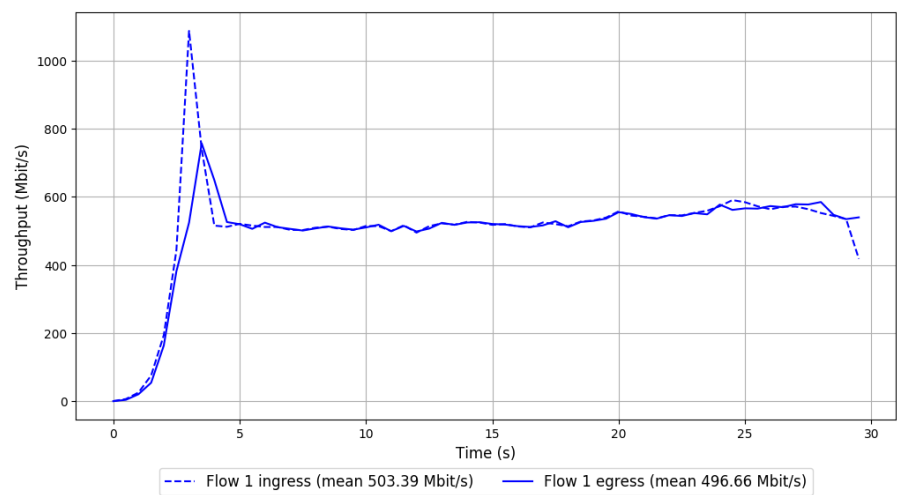
-- Flow 1:

Average throughput: 496.66 Mbit/s

95th percentile per-packet one-way delay: 171.887 ms

Loss rate: 1.34%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-04-10 07:58:15

End at: 2018-04-10 07:58:45

Below is generated by plot.py at 2018-04-10 10:55:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 513.65 Mbit/s

95th percentile per-packet one-way delay: 210.973 ms

Loss rate: 1.34%

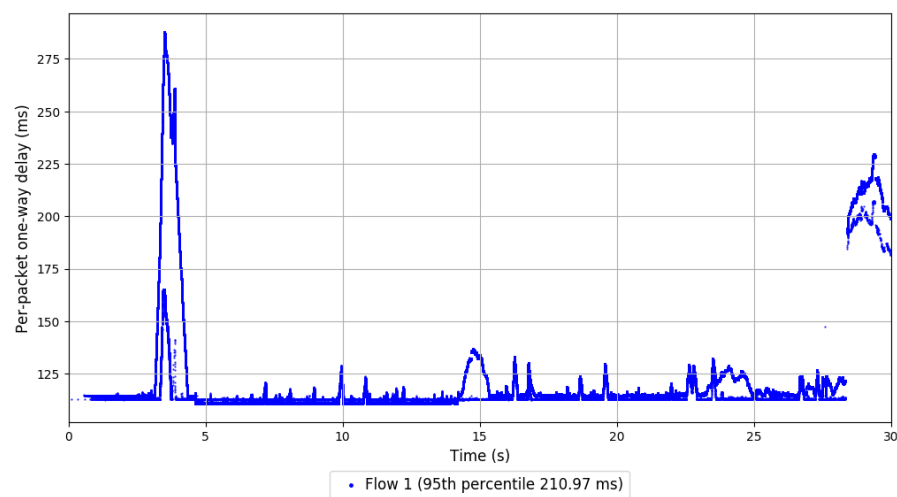
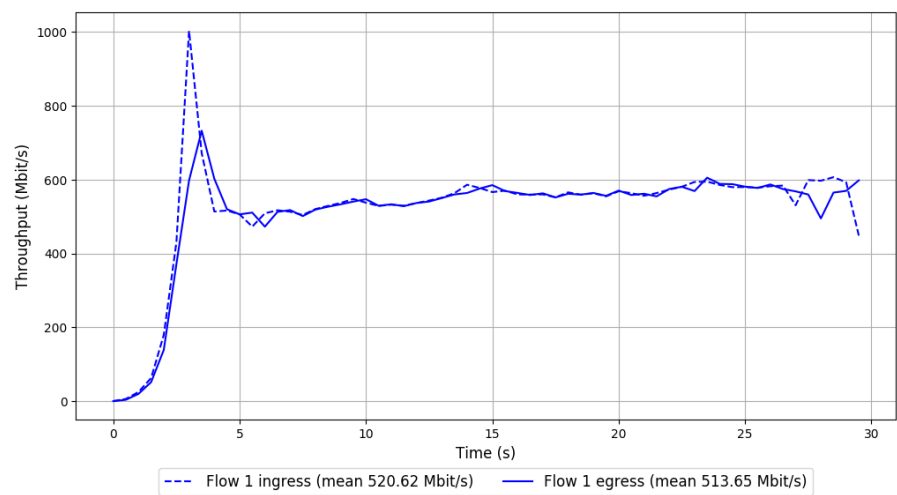
-- Flow 1:

Average throughput: 513.65 Mbit/s

95th percentile per-packet one-way delay: 210.973 ms

Loss rate: 1.34%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-04-10 08:13:12

End at: 2018-04-10 08:13:42

Below is generated by plot.py at 2018-04-10 10:56:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 494.92 Mbit/s

95th percentile per-packet one-way delay: 200.472 ms

Loss rate: 1.77%

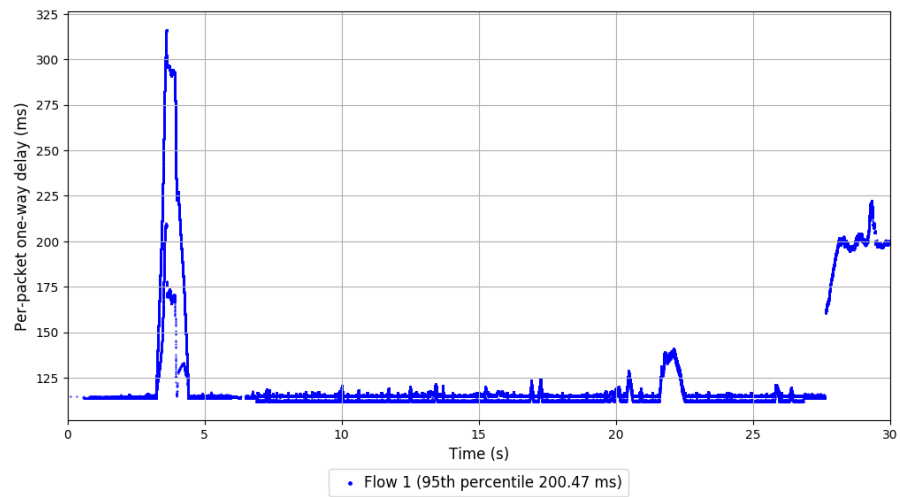
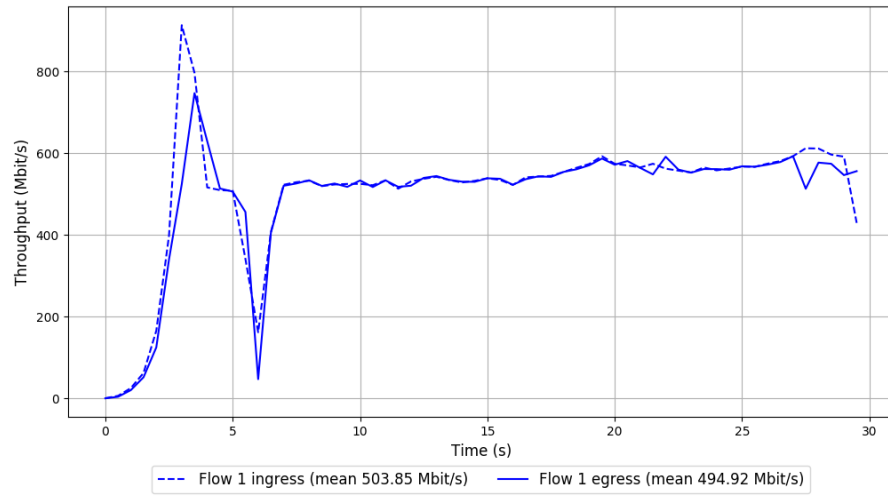
-- Flow 1:

Average throughput: 494.92 Mbit/s

95th percentile per-packet one-way delay: 200.472 ms

Loss rate: 1.77%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-04-10 08:27:51

End at: 2018-04-10 08:28:21

Below is generated by plot.py at 2018-04-10 10:56:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 502.93 Mbit/s

95th percentile per-packet one-way delay: 178.755 ms

Loss rate: 1.12%

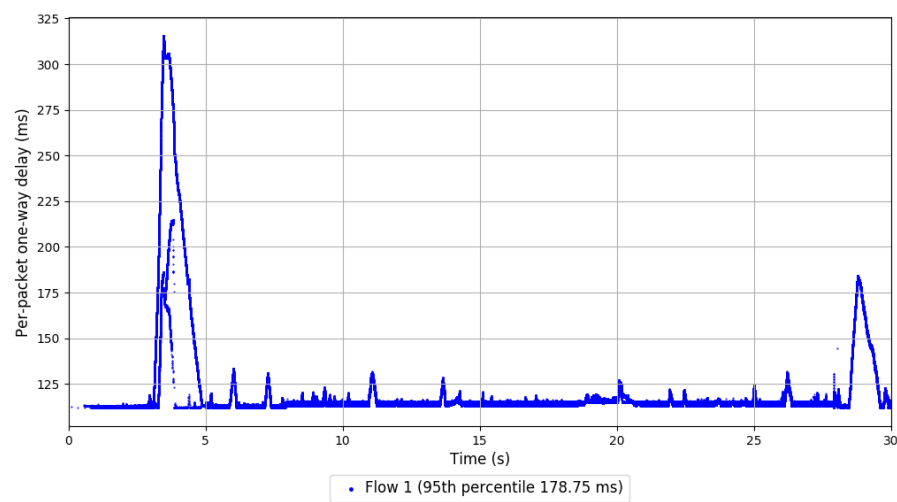
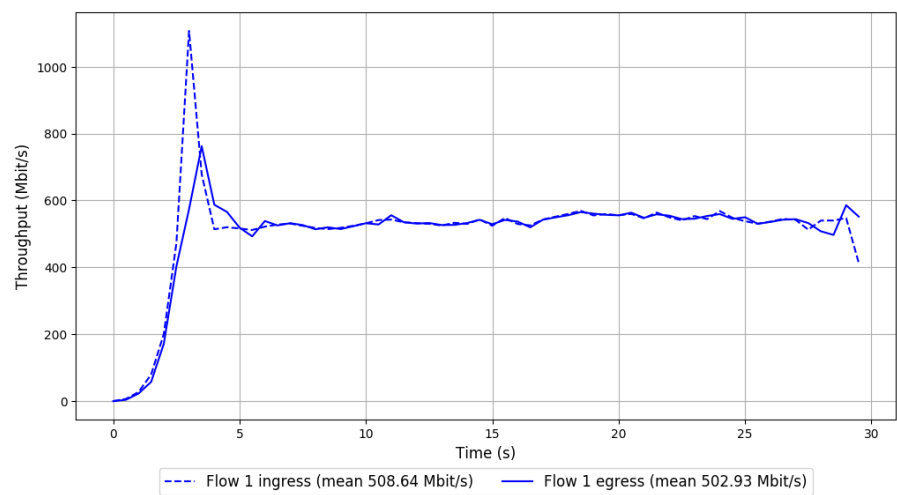
-- Flow 1:

Average throughput: 502.93 Mbit/s

95th percentile per-packet one-way delay: 178.755 ms

Loss rate: 1.12%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-04-10 08:43:08

End at: 2018-04-10 08:43:38

Below is generated by plot.py at 2018-04-10 10:56:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 510.57 Mbit/s

95th percentile per-packet one-way delay: 155.157 ms

Loss rate: 0.99%

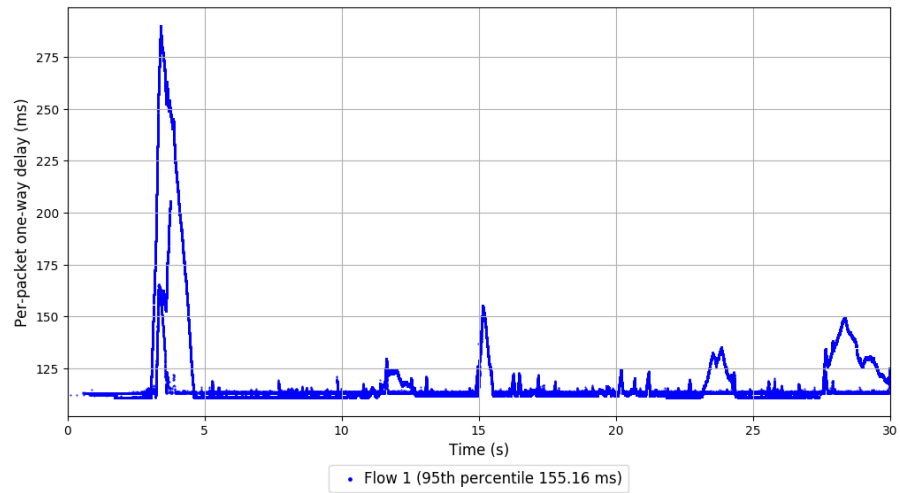
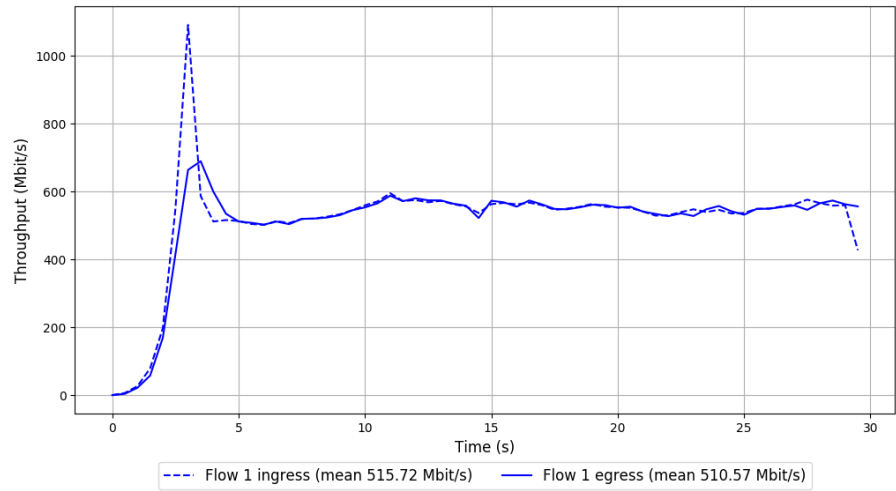
-- Flow 1:

Average throughput: 510.57 Mbit/s

95th percentile per-packet one-way delay: 155.157 ms

Loss rate: 0.99%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-04-10 08:58:36

End at: 2018-04-10 08:59:06

Below is generated by plot.py at 2018-04-10 10:56:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 499.36 Mbit/s

95th percentile per-packet one-way delay: 199.223 ms

Loss rate: 1.21%

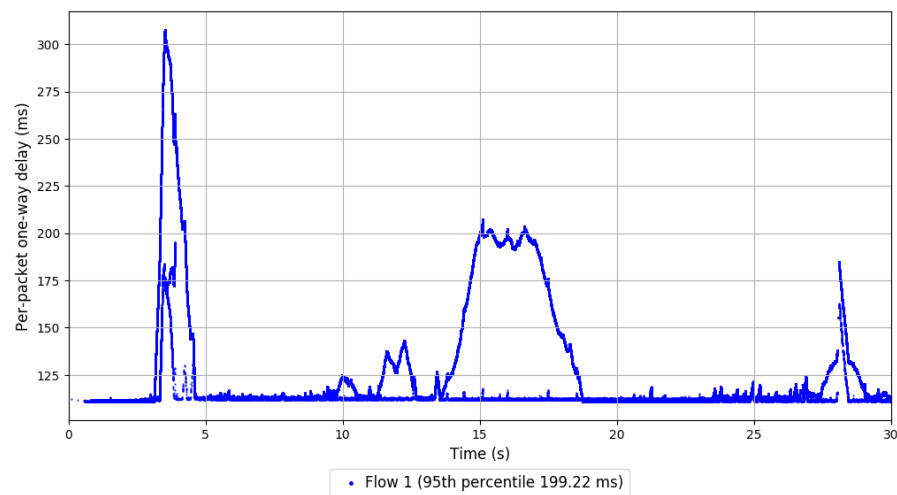
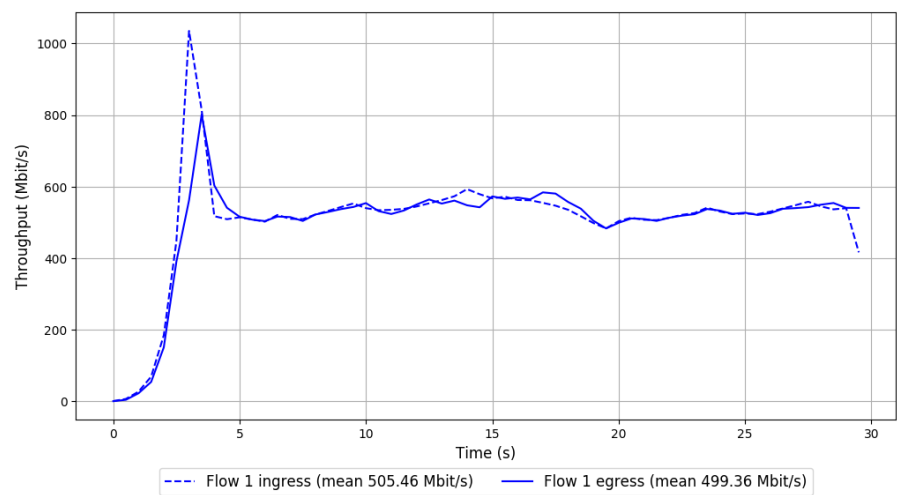
-- Flow 1:

Average throughput: 499.36 Mbit/s

95th percentile per-packet one-way delay: 199.223 ms

Loss rate: 1.21%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2018-04-10 09:13:41

End at: 2018-04-10 09:14:11

Below is generated by plot.py at 2018-04-10 11:03:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 524.11 Mbit/s

95th percentile per-packet one-way delay: 156.445 ms

Loss rate: 0.93%

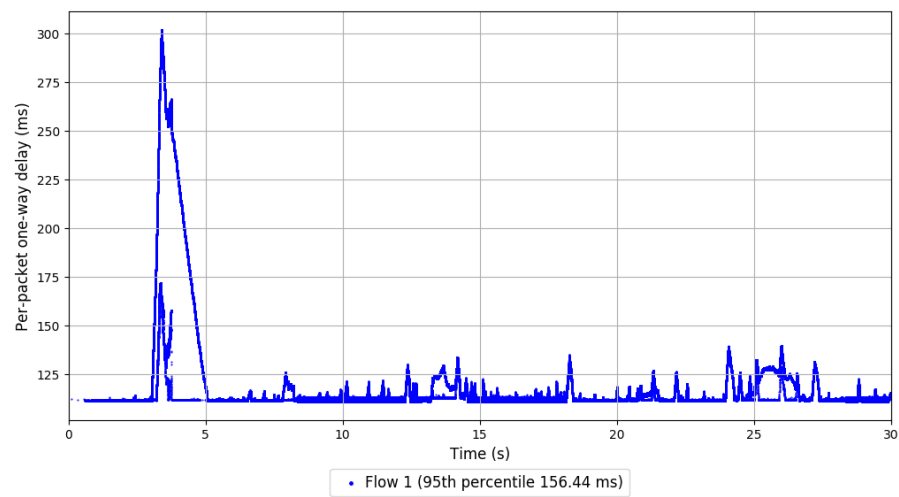
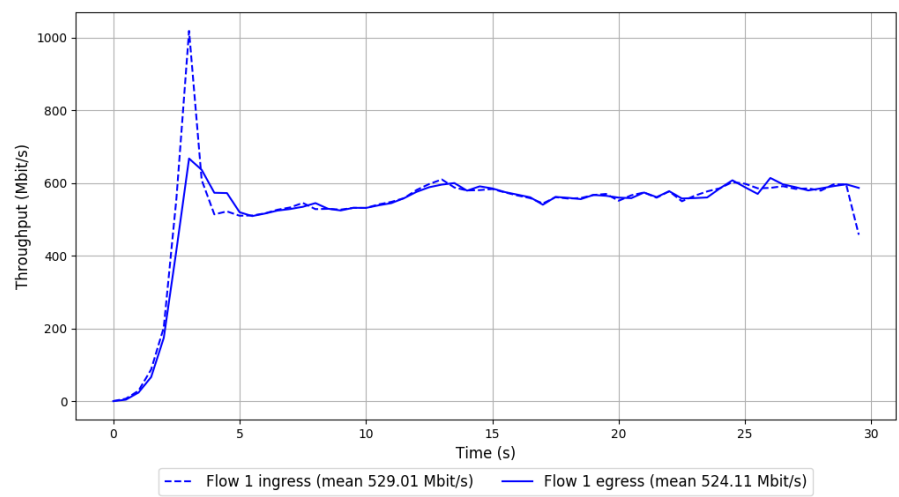
-- Flow 1:

Average throughput: 524.11 Mbit/s

95th percentile per-packet one-way delay: 156.445 ms

Loss rate: 0.93%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2018-04-10 09:28:59

End at: 2018-04-10 09:29:29

Below is generated by plot.py at 2018-04-10 11:04:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 514.74 Mbit/s

95th percentile per-packet one-way delay: 209.064 ms

Loss rate: 1.17%

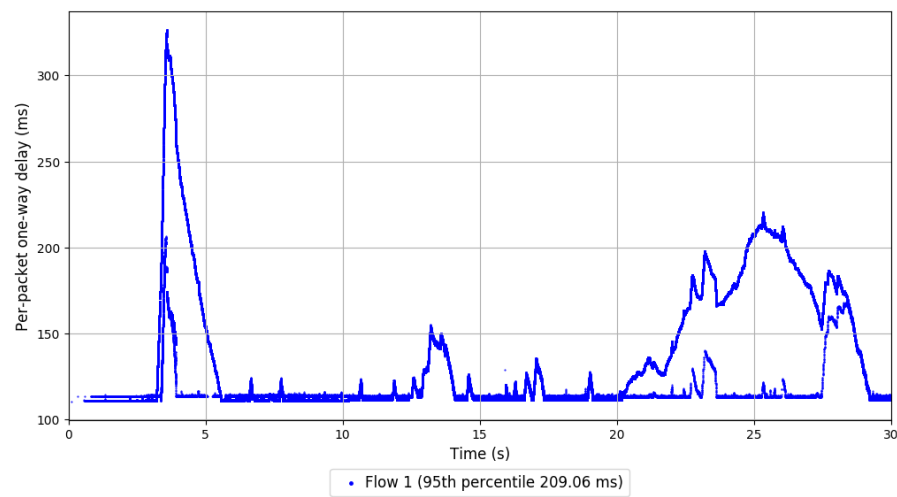
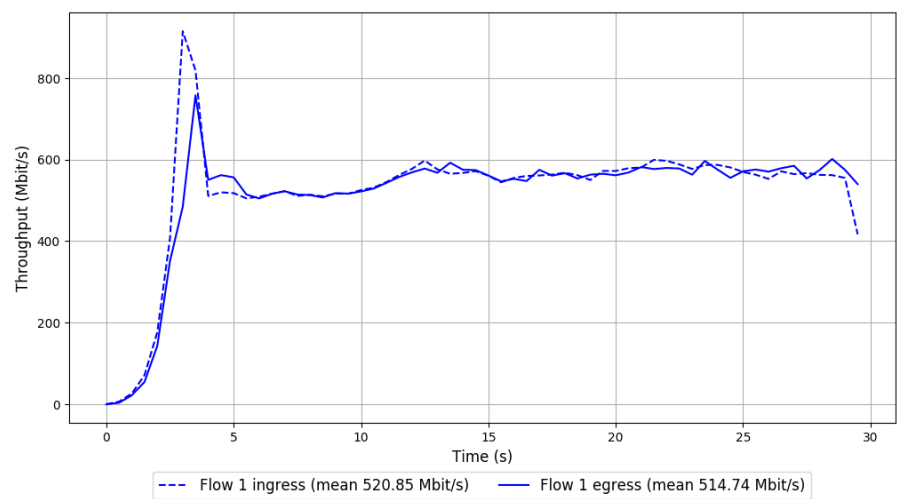
-- Flow 1:

Average throughput: 514.74 Mbit/s

95th percentile per-packet one-way delay: 209.064 ms

Loss rate: 1.17%

Run 10: Report of PCC — Data Link

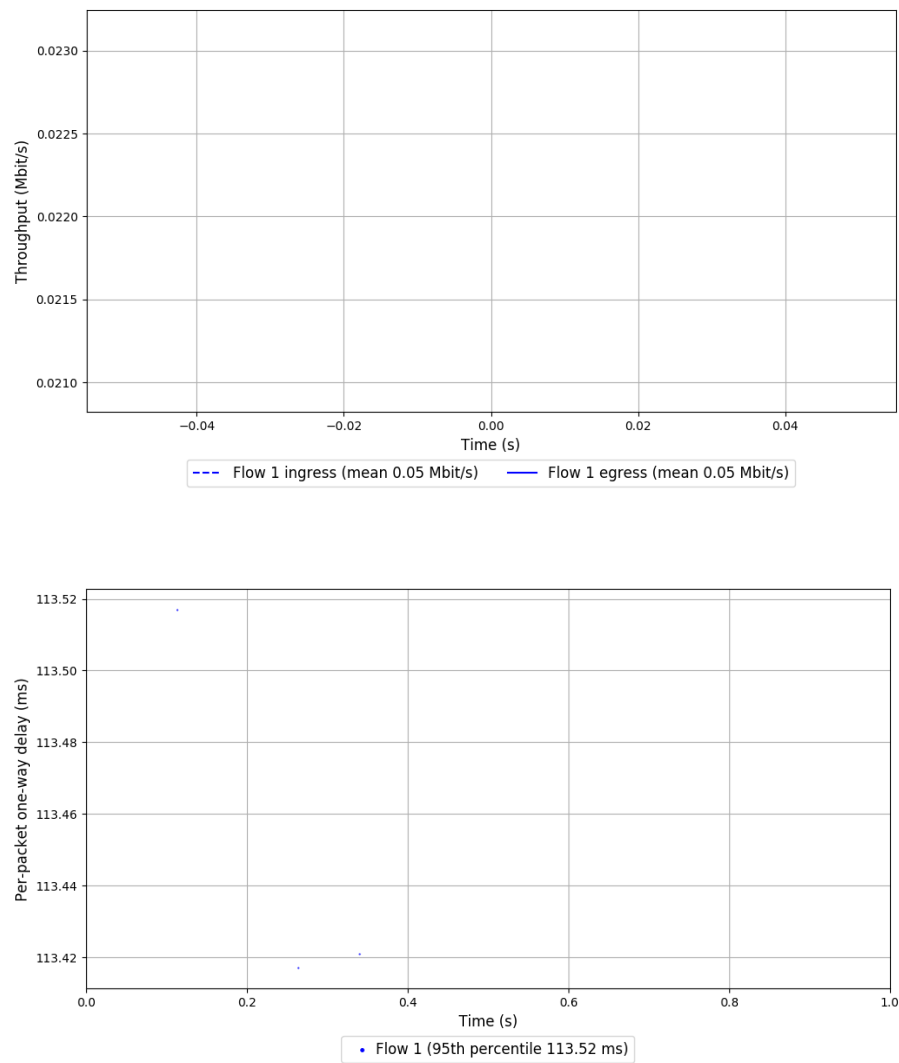


Run 1: Statistics of QUIC Cubic

Start at: 2018-04-10 07:04:53

End at: 2018-04-10 07:05:23

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-04-10 07:20:20

End at: 2018-04-10 07:20:50

Below is generated by plot.py at 2018-04-10 11:04:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 53.59 Mbit/s

95th percentile per-packet one-way delay: 113.424 ms

Loss rate: 0.00%

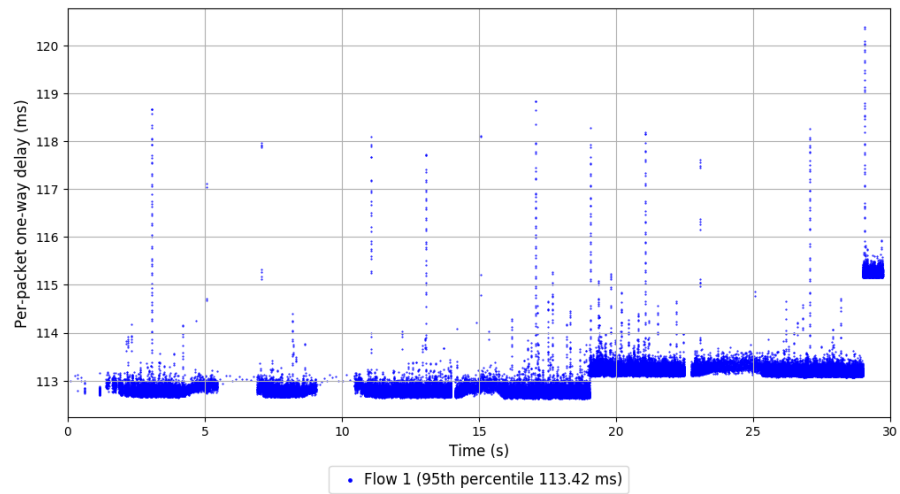
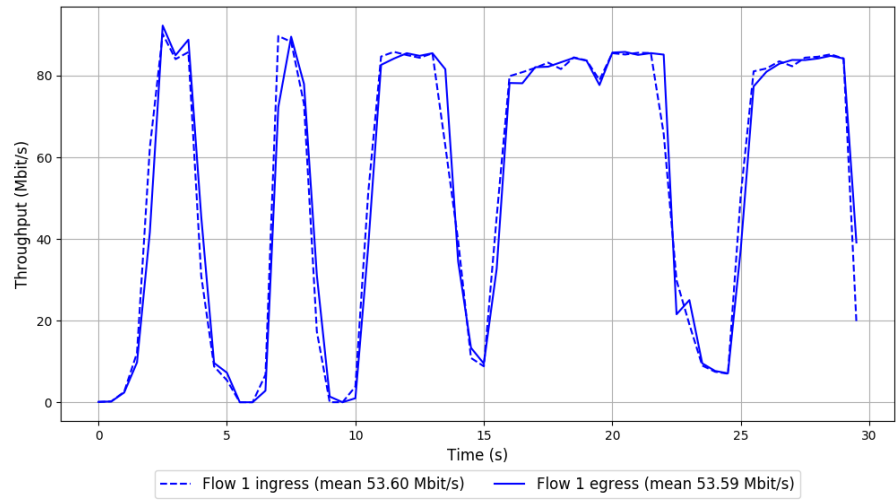
-- Flow 1:

Average throughput: 53.59 Mbit/s

95th percentile per-packet one-way delay: 113.424 ms

Loss rate: 0.00%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-04-10 07:35:27

End at: 2018-04-10 07:35:57

Below is generated by plot.py at 2018-04-10 11:04:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 52.96 Mbit/s

95th percentile per-packet one-way delay: 113.315 ms

Loss rate: 0.00%

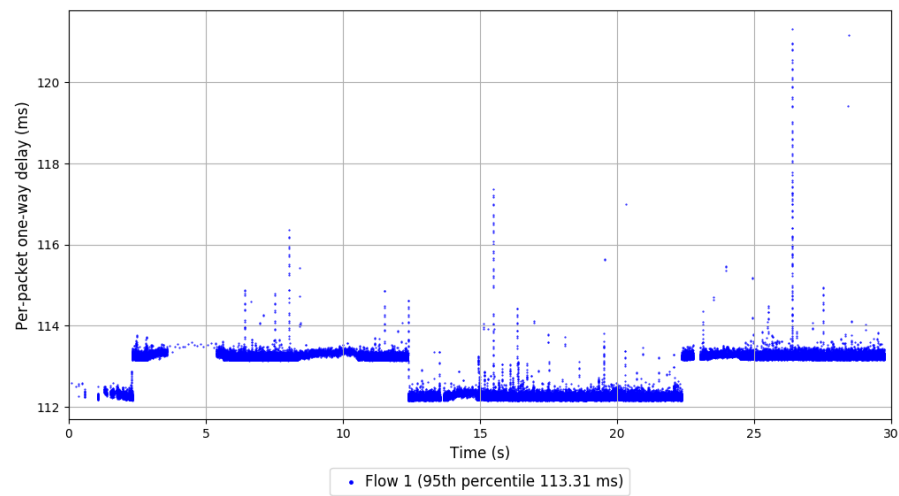
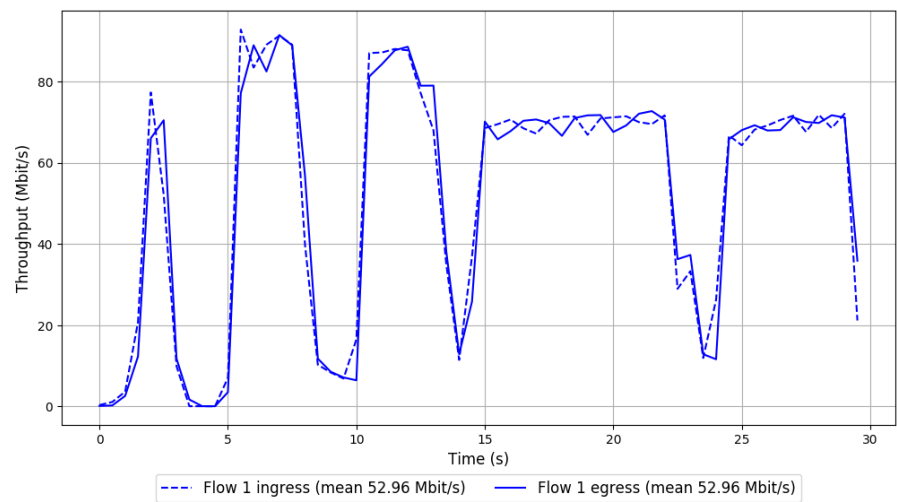
-- Flow 1:

Average throughput: 52.96 Mbit/s

95th percentile per-packet one-way delay: 113.315 ms

Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-04-10 07:50:35

End at: 2018-04-10 07:51:05

Below is generated by plot.py at 2018-04-10 11:04:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 41.34 Mbit/s

95th percentile per-packet one-way delay: 112.654 ms

Loss rate: 0.00%

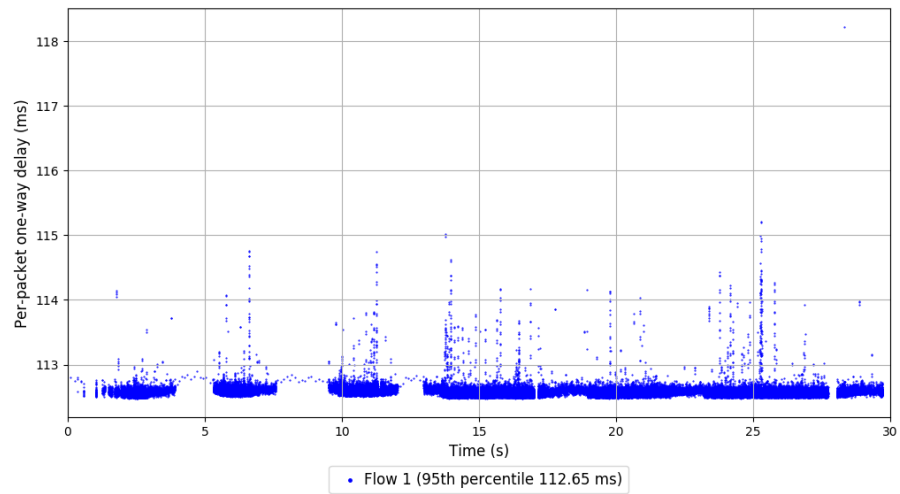
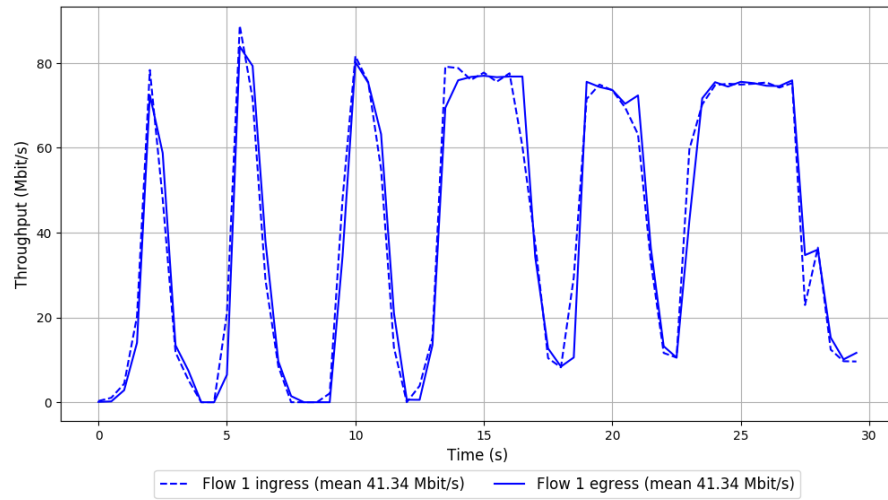
-- Flow 1:

Average throughput: 41.34 Mbit/s

95th percentile per-packet one-way delay: 112.654 ms

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-04-10 08:05:27

End at: 2018-04-10 08:05:57

Below is generated by plot.py at 2018-04-10 11:04:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 49.05 Mbit/s

95th percentile per-packet one-way delay: 113.788 ms

Loss rate: 0.00%

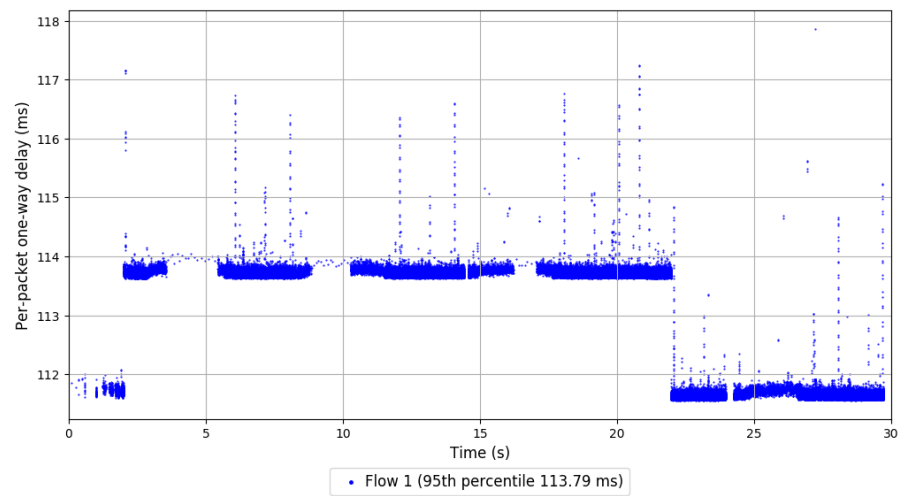
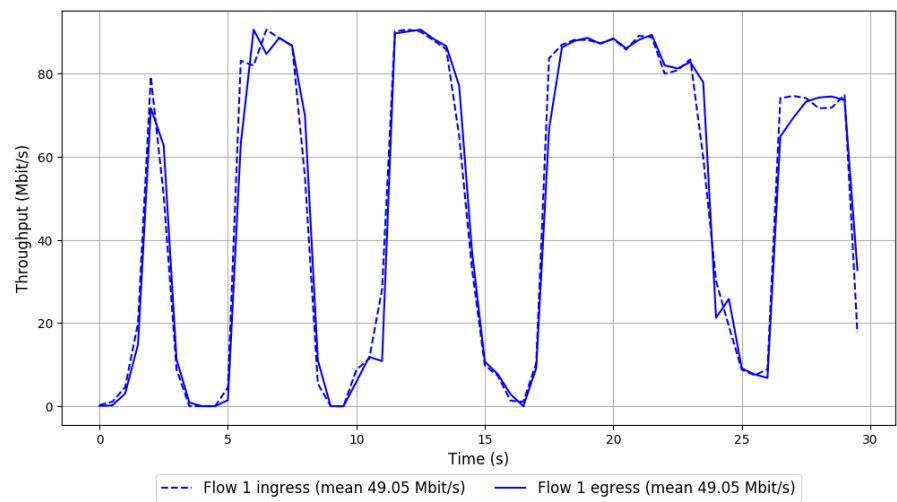
-- Flow 1:

Average throughput: 49.05 Mbit/s

95th percentile per-packet one-way delay: 113.788 ms

Loss rate: 0.00%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-04-10 08:20:32

End at: 2018-04-10 08:21:02

Below is generated by plot.py at 2018-04-10 11:04:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 52.02 Mbit/s

95th percentile per-packet one-way delay: 114.751 ms

Loss rate: 0.00%

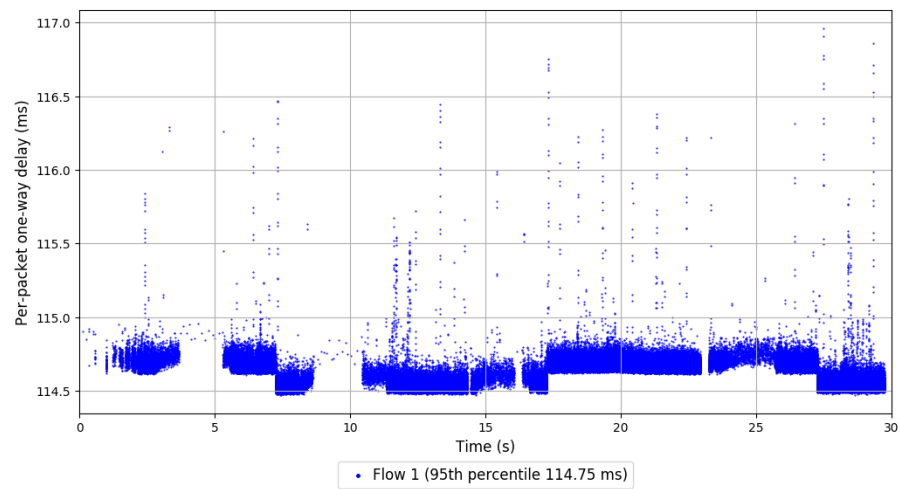
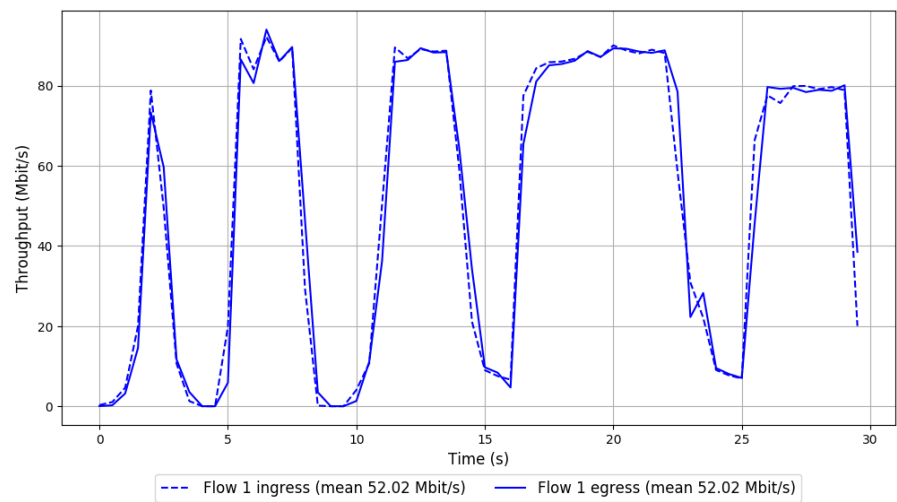
-- Flow 1:

Average throughput: 52.02 Mbit/s

95th percentile per-packet one-way delay: 114.751 ms

Loss rate: 0.00%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-04-10 08:35:03

End at: 2018-04-10 08:35:34

Below is generated by plot.py at 2018-04-10 11:04:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 51.11 Mbit/s

95th percentile per-packet one-way delay: 113.938 ms

Loss rate: 0.00%

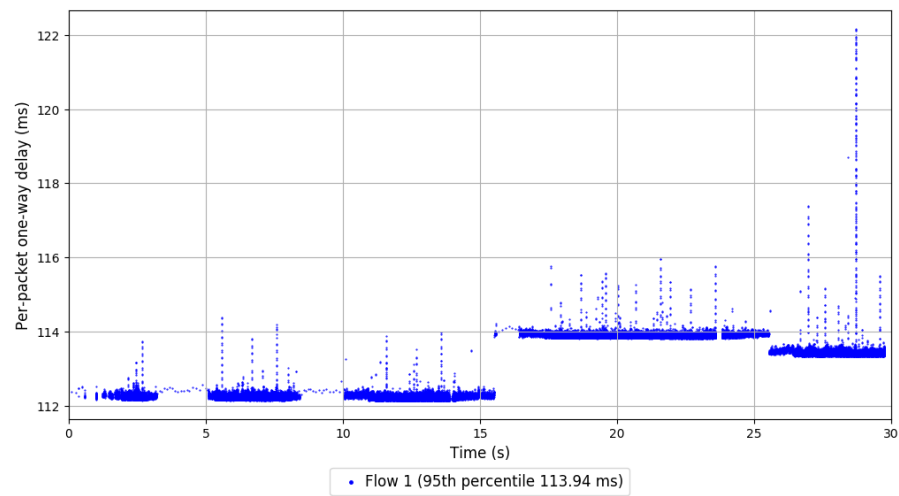
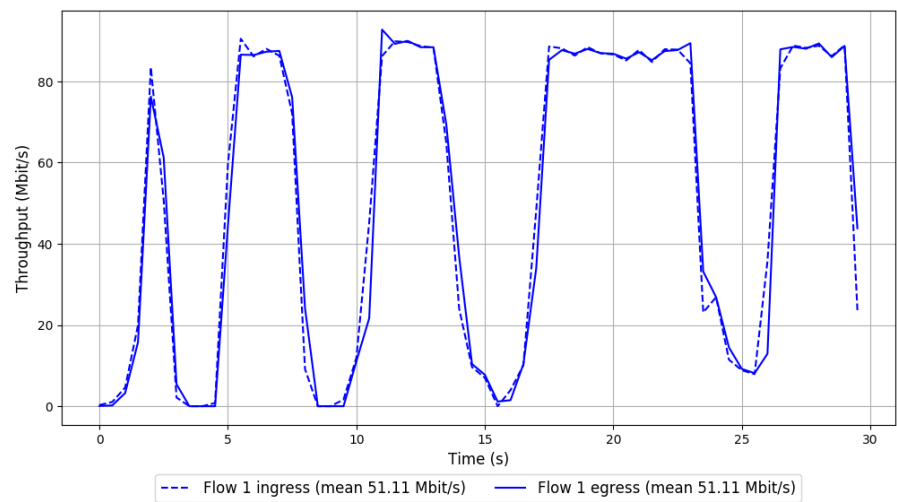
-- Flow 1:

Average throughput: 51.11 Mbit/s

95th percentile per-packet one-way delay: 113.938 ms

Loss rate: 0.00%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-04-10 08:50:41

End at: 2018-04-10 08:51:11

Below is generated by plot.py at 2018-04-10 11:04:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 54.72 Mbit/s

95th percentile per-packet one-way delay: 113.674 ms

Loss rate: 0.00%

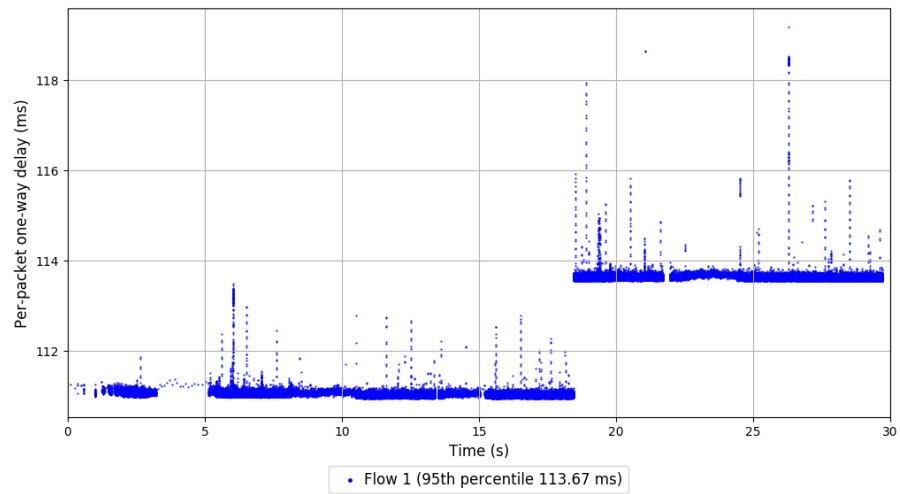
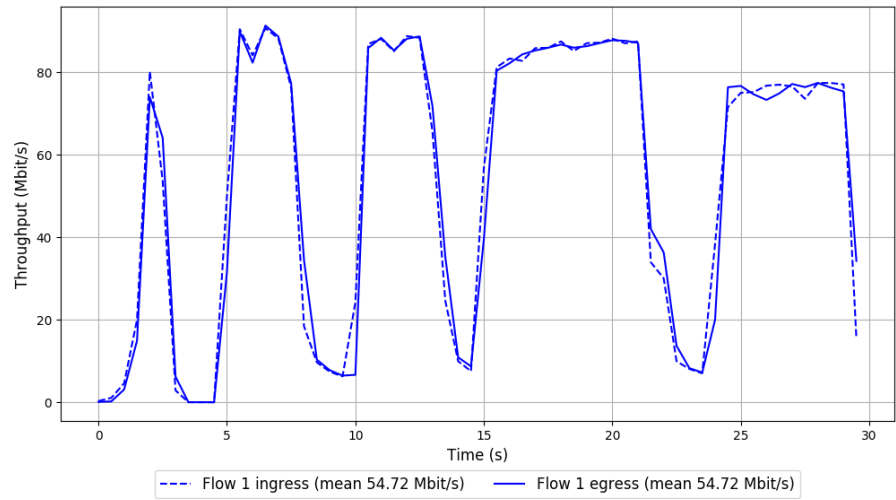
-- Flow 1:

Average throughput: 54.72 Mbit/s

95th percentile per-packet one-way delay: 113.674 ms

Loss rate: 0.00%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-04-10 09:05:41

End at: 2018-04-10 09:06:11

Below is generated by plot.py at 2018-04-10 11:04:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 51.42 Mbit/s

95th percentile per-packet one-way delay: 113.373 ms

Loss rate: 0.00%

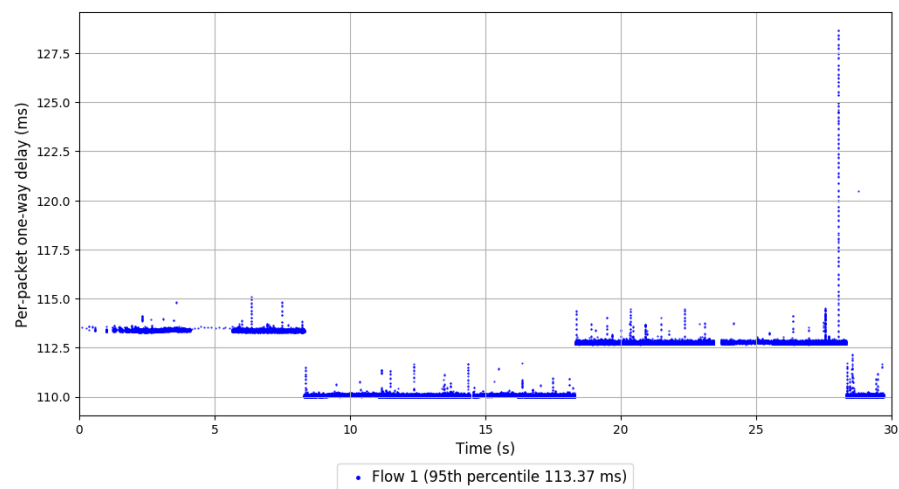
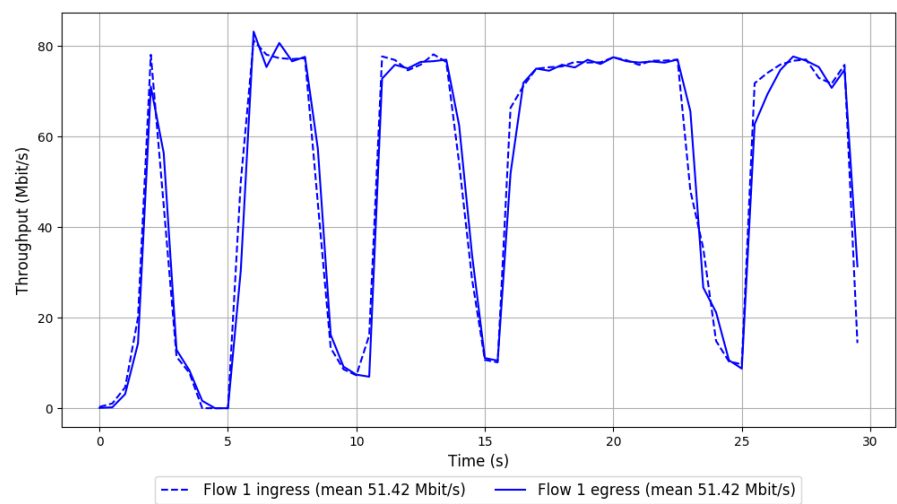
-- Flow 1:

Average throughput: 51.42 Mbit/s

95th percentile per-packet one-way delay: 113.373 ms

Loss rate: 0.00%

Run 9: Report of QUIC Cubic — Data Link

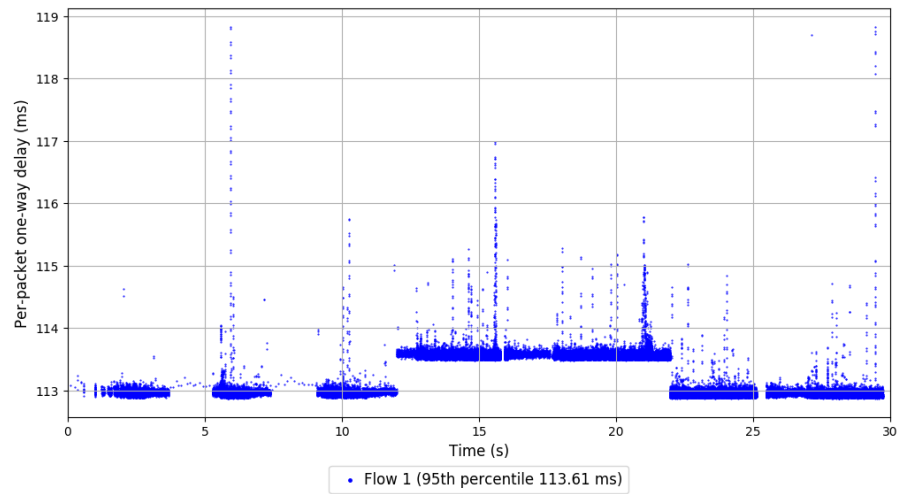
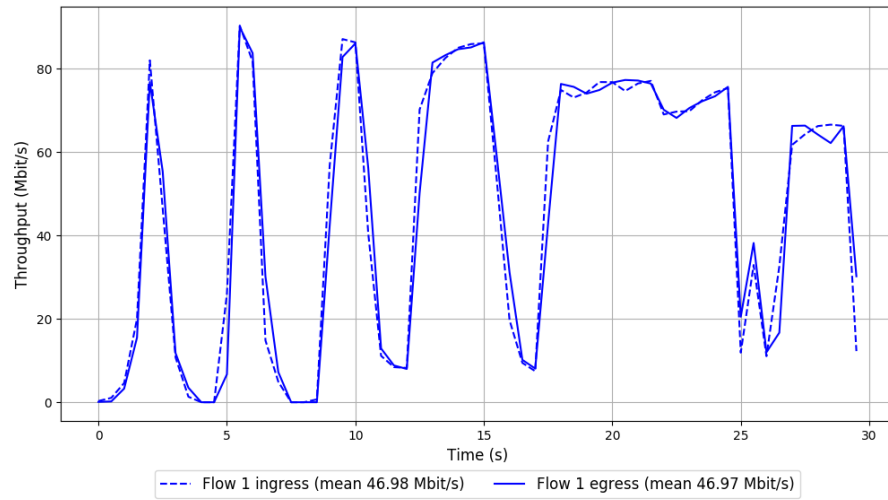


```
Run 10: Statistics of QUIC Cubic

Start at: 2018-04-10 09:20:57
End at: 2018-04-10 09:21:27

# Below is generated by plot.py at 2018-04-10 11:04:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 46.97 Mbit/s
95th percentile per-packet one-way delay: 113.607 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 46.97 Mbit/s
95th percentile per-packet one-way delay: 113.607 ms
Loss rate: 0.00%
```

Run 10: Report of QUIC Cubic — Data Link

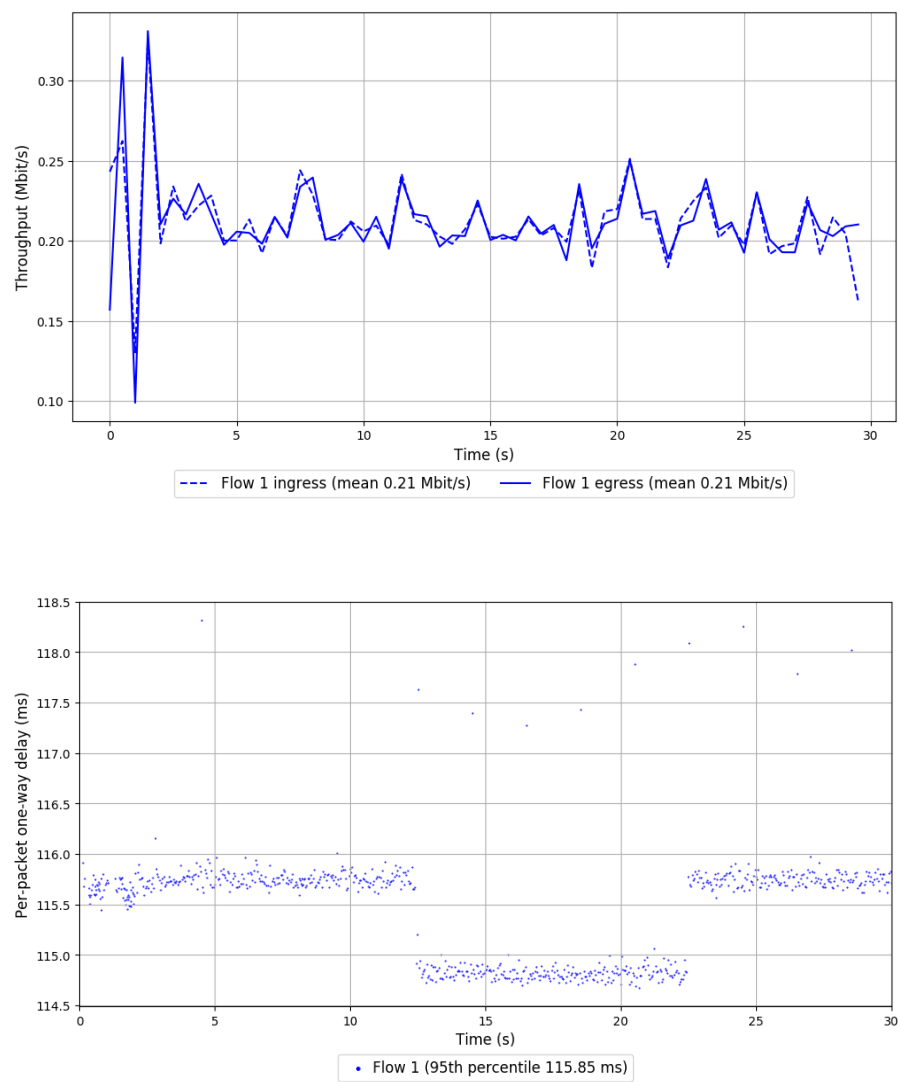


```
Run 1: Statistics of SCReAM

Start at: 2018-04-10 07:18:17
End at: 2018-04-10 07:18:47

# Below is generated by plot.py at 2018-04-10 11:04:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 115.850 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 115.850 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

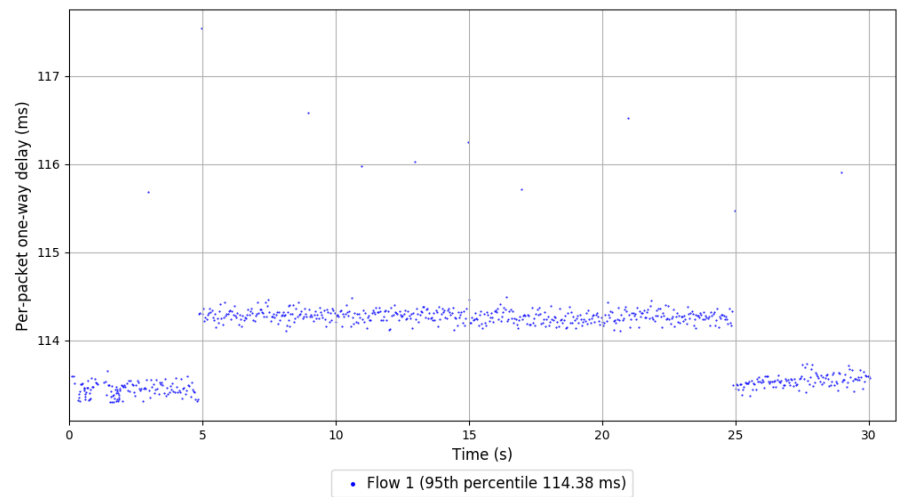
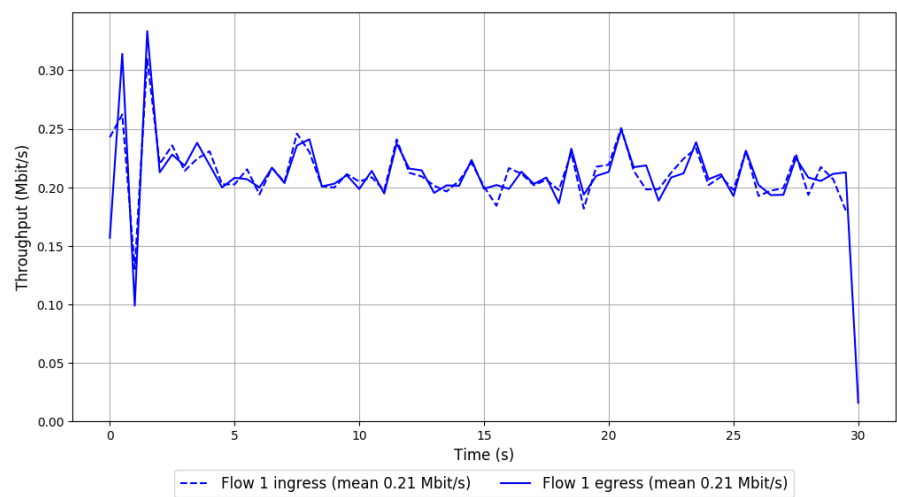


```
Run 2: Statistics of SCReAM

Start at: 2018-04-10 07:33:24
End at: 2018-04-10 07:33:54

# Below is generated by plot.py at 2018-04-10 11:04:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 114.377 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 114.377 ms
Loss rate: 0.00%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-04-10 07:48:33

End at: 2018-04-10 07:49:03

Below is generated by plot.py at 2018-04-10 11:04:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 113.723 ms

Loss rate: 0.00%

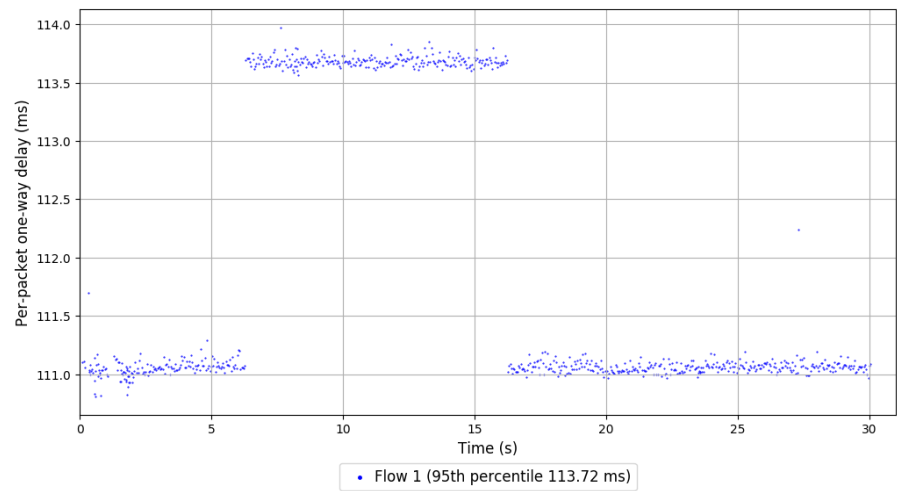
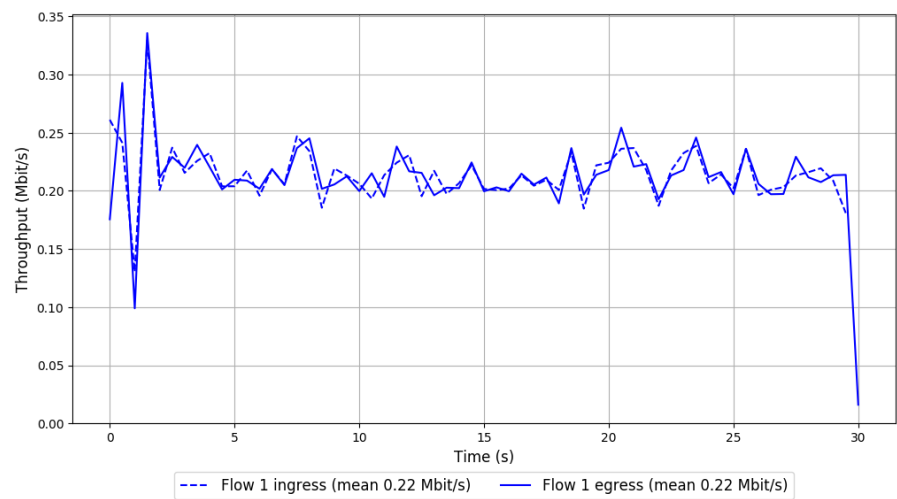
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 113.723 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2018-04-10 08:03:25

End at: 2018-04-10 08:03:55

Below is generated by plot.py at 2018-04-10 11:04:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 113.833 ms

Loss rate: 0.00%

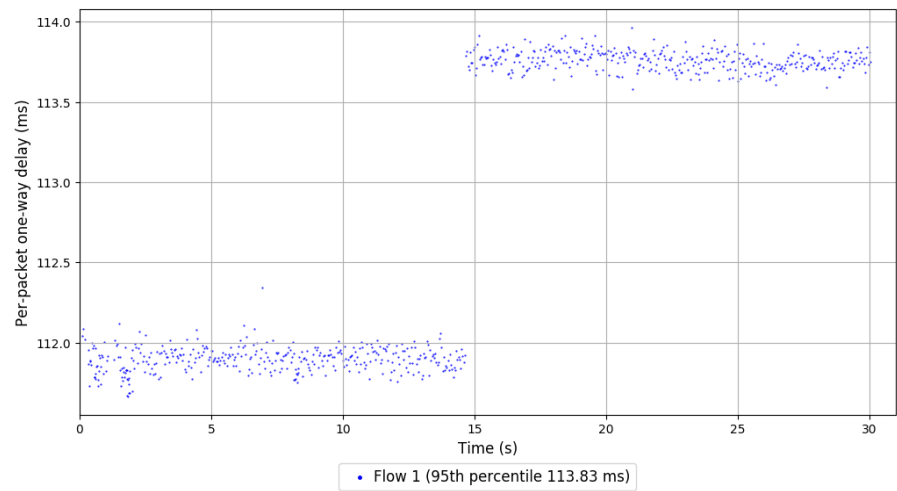
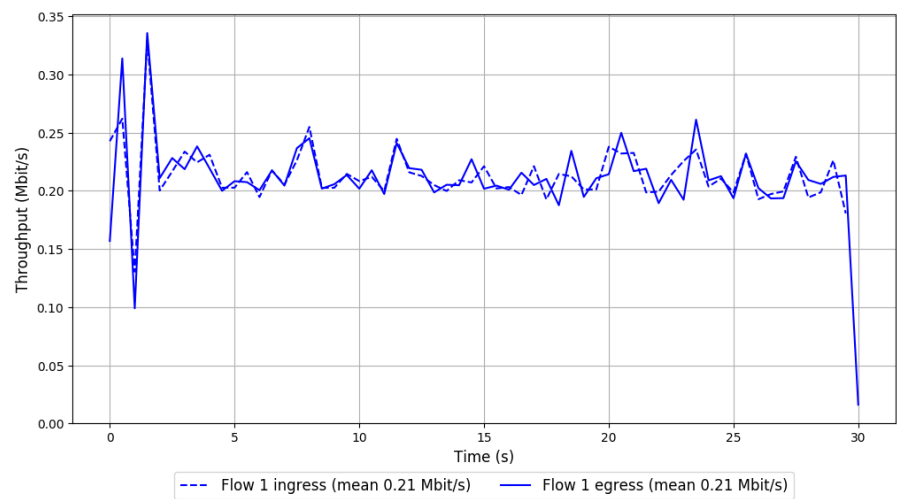
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 113.833 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-04-10 08:18:29

End at: 2018-04-10 08:18:59

Below is generated by plot.py at 2018-04-10 11:04:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 113.133 ms

Loss rate: 0.00%

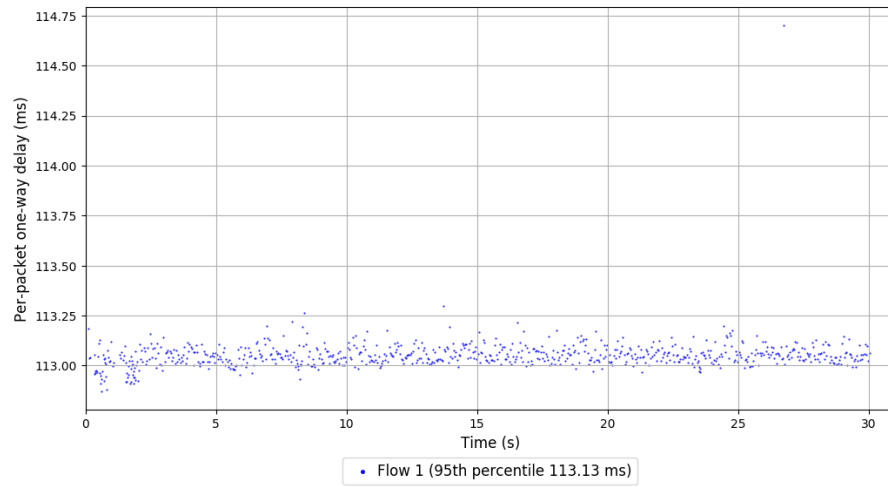
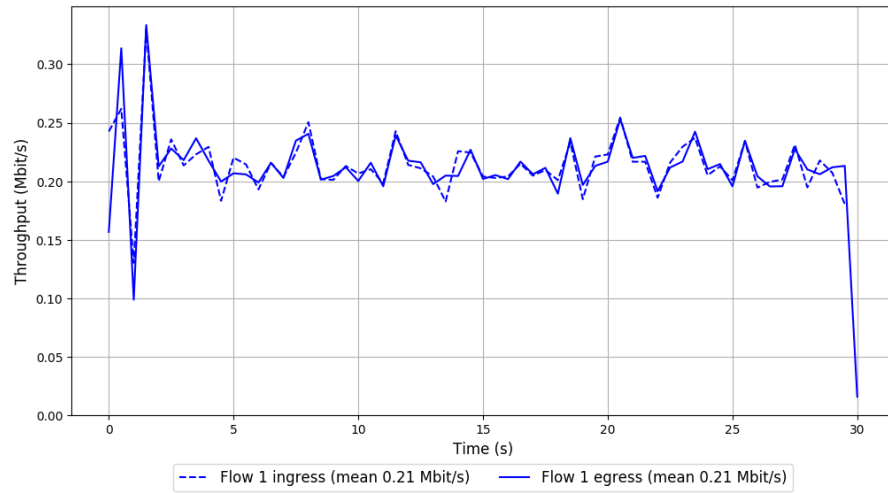
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 113.133 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-04-10 08:33:01

End at: 2018-04-10 08:33:31

Below is generated by plot.py at 2018-04-10 11:04:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 112.830 ms

Loss rate: 0.00%

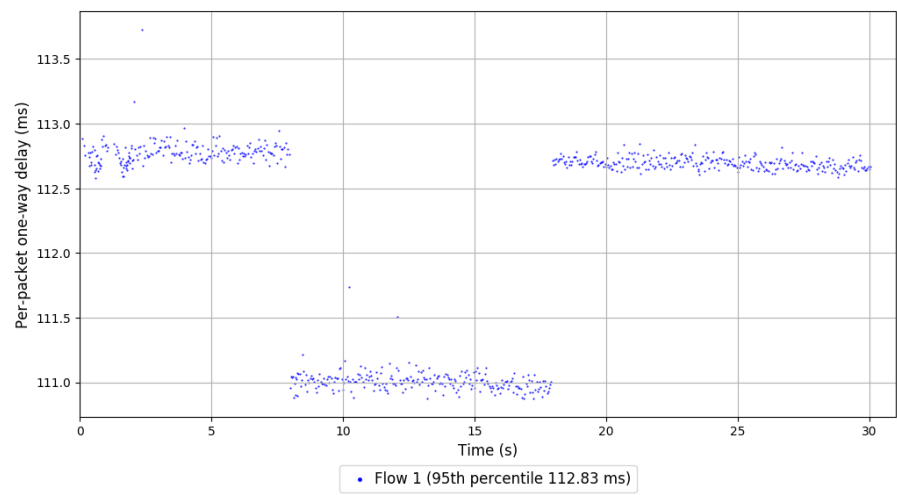
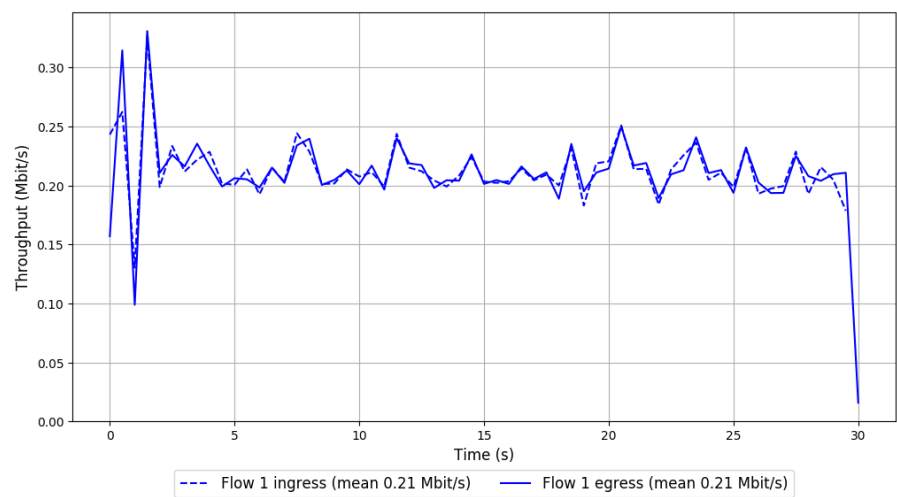
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 112.830 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2018-04-10 08:48:38

End at: 2018-04-10 08:49:08

Below is generated by plot.py at 2018-04-10 11:04:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 113.711 ms

Loss rate: 0.00%

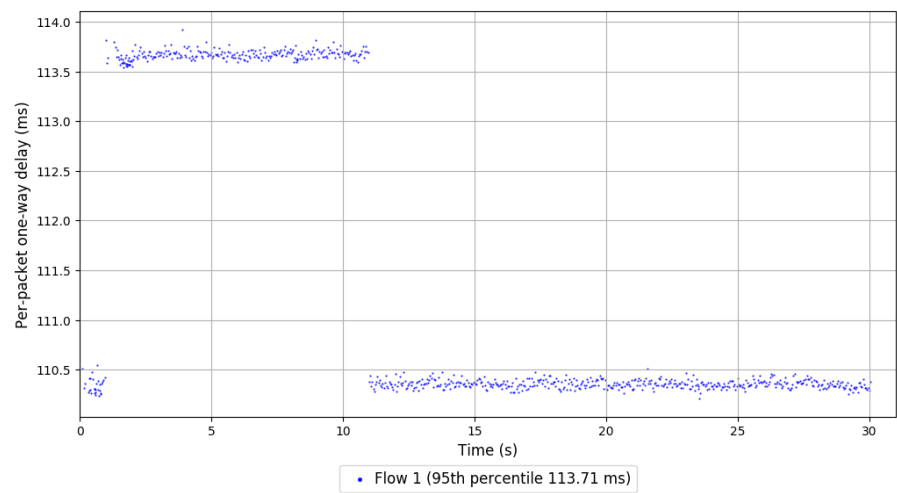
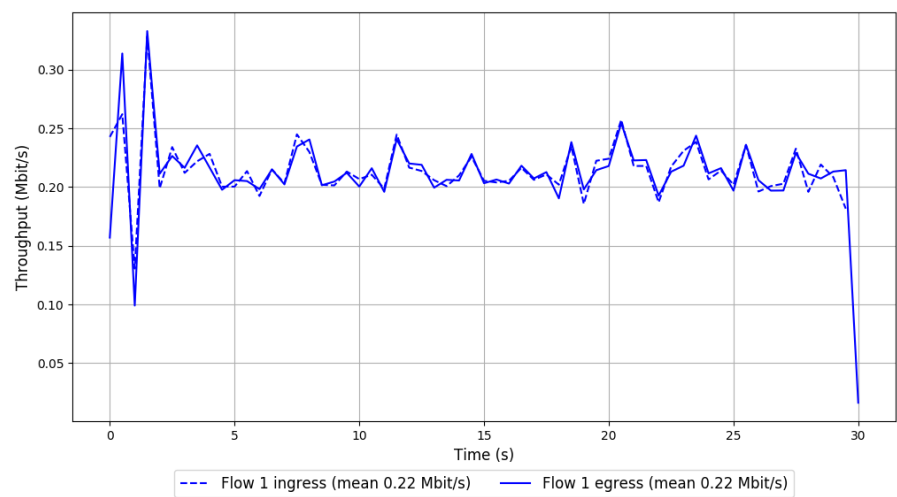
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 113.711 ms

Loss rate: 0.00%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-04-10 09:03:39

End at: 2018-04-10 09:04:09

Below is generated by plot.py at 2018-04-10 11:04:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 113.816 ms

Loss rate: 0.00%

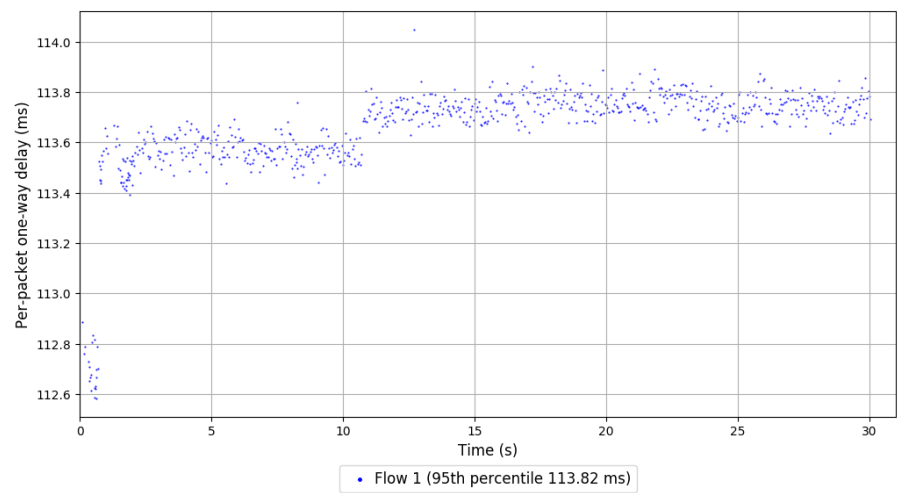
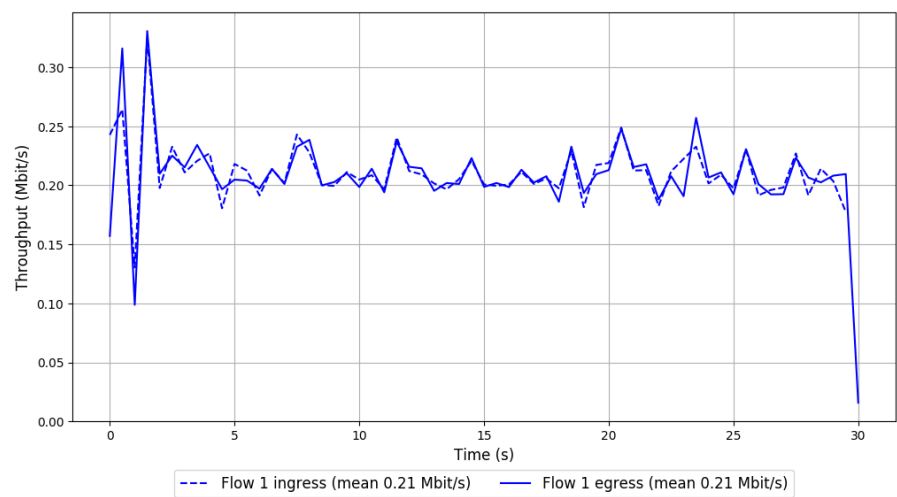
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 113.816 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-04-10 09:18:55

End at: 2018-04-10 09:19:25

Below is generated by plot.py at 2018-04-10 11:04:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 113.870 ms

Loss rate: 0.00%

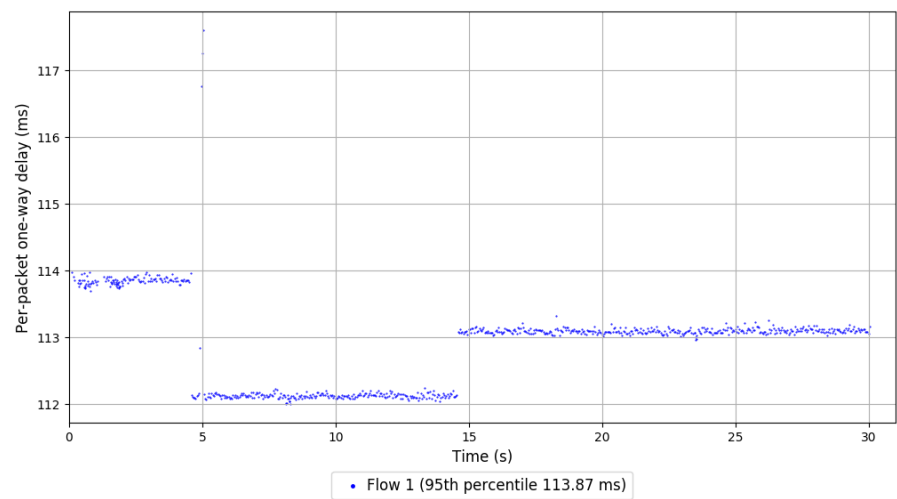
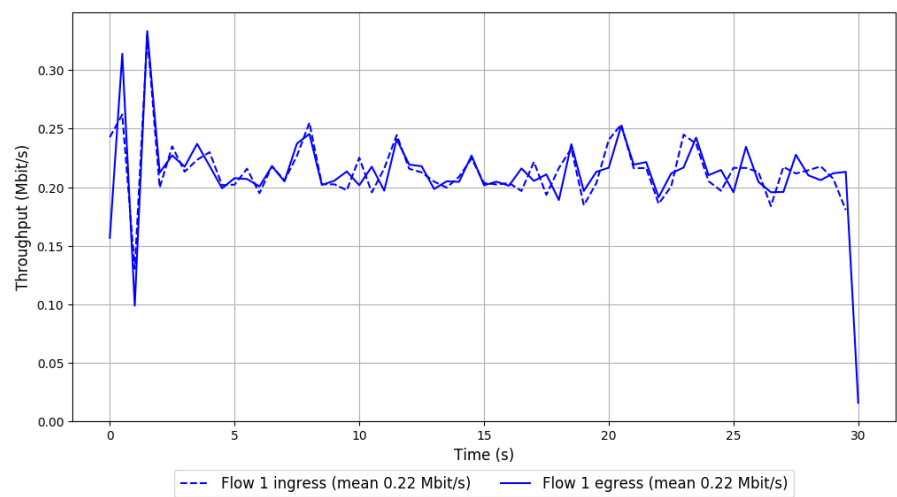
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 113.870 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-04-10 09:34:13

End at: 2018-04-10 09:34:43

Below is generated by plot.py at 2018-04-10 11:04:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.11 Mbit/s

95th percentile per-packet one-way delay: 111.084 ms

Loss rate: 0.00%

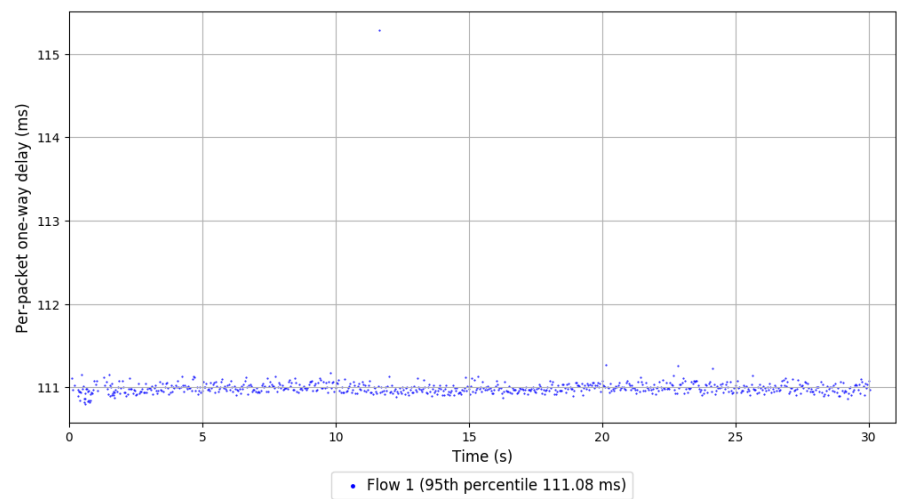
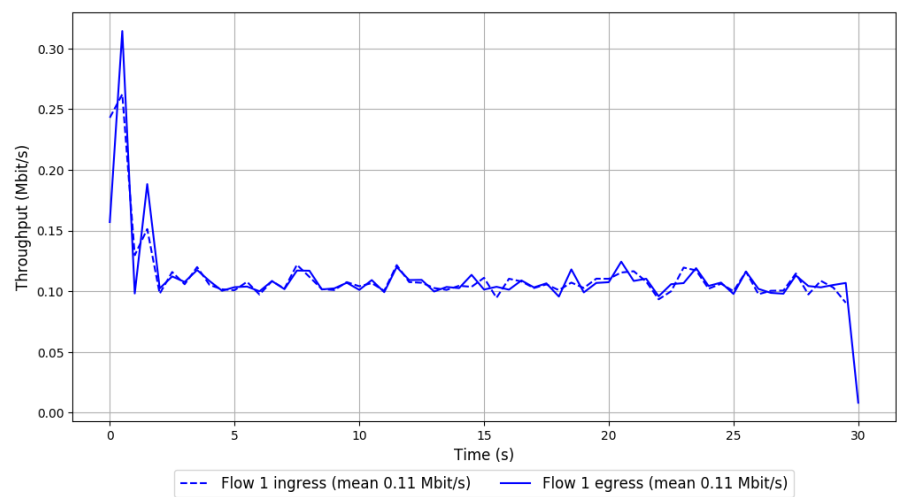
-- Flow 1:

Average throughput: 0.11 Mbit/s

95th percentile per-packet one-way delay: 111.084 ms

Loss rate: 0.00%

Run 10: Report of SReAM — Data Link

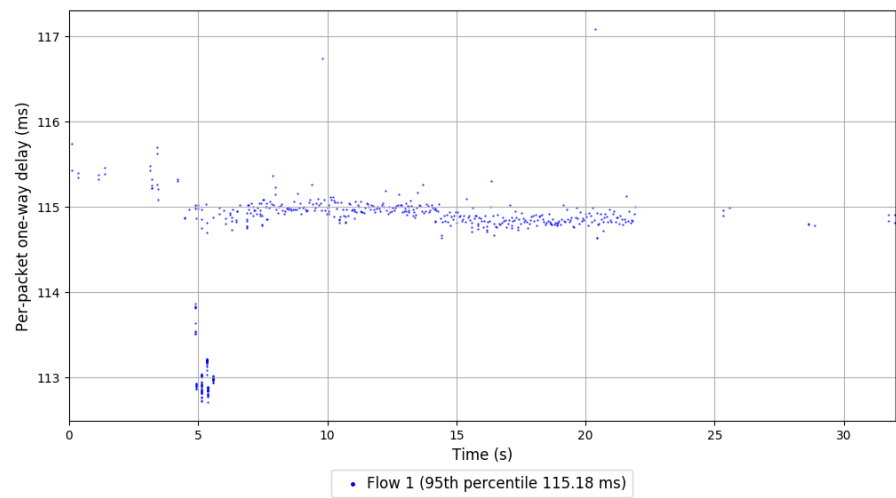
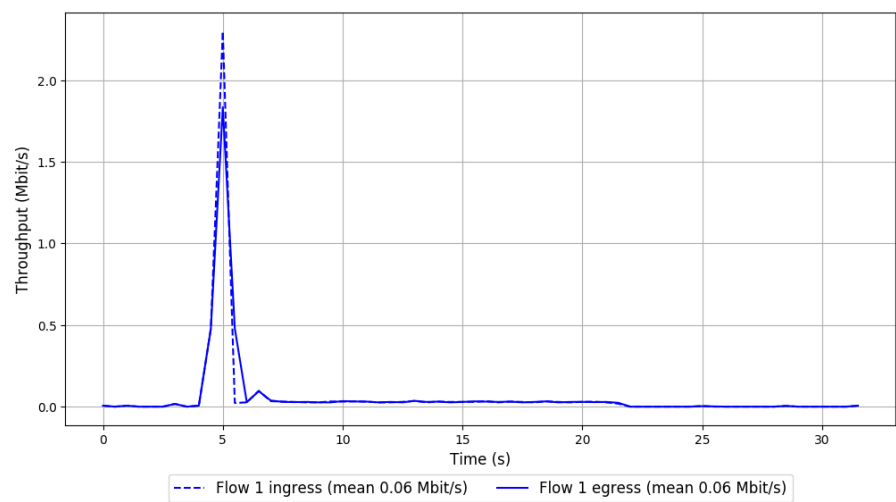


```
Run 1: Statistics of WebRTC media

Start at: 2018-04-10 07:18:57
End at: 2018-04-10 07:19:27

# Below is generated by plot.py at 2018-04-10 11:04:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 115.181 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 115.181 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link

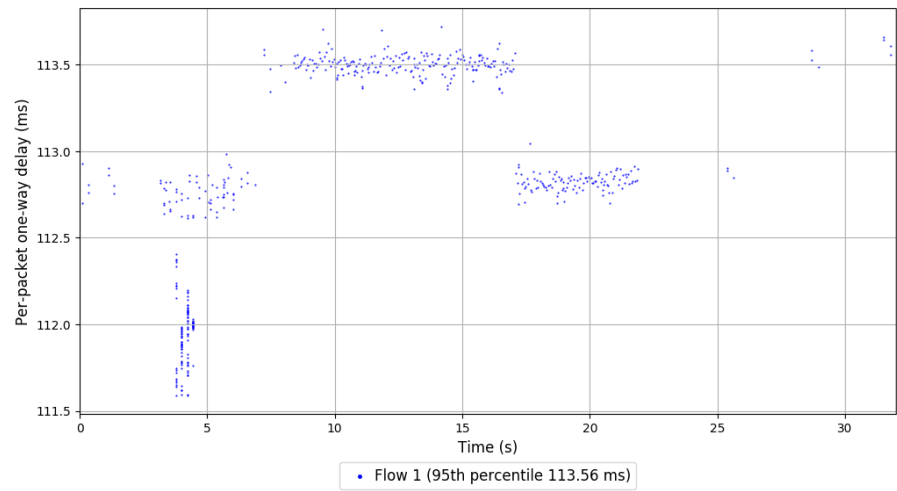
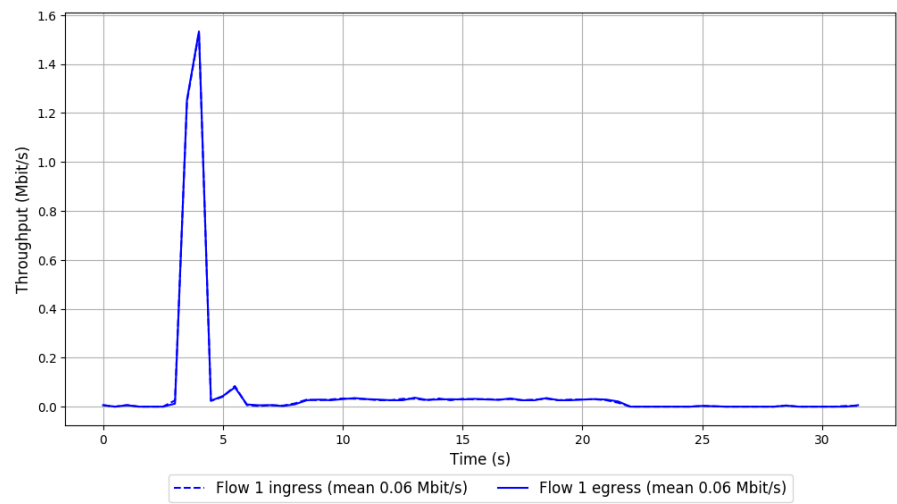


```
Run 2: Statistics of WebRTC media

Start at: 2018-04-10 07:34:05
End at: 2018-04-10 07:34:35

# Below is generated by plot.py at 2018-04-10 11:04:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 113.558 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 113.558 ms
Loss rate: 0.00%
```

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-04-10 07:49:13

End at: 2018-04-10 07:49:43

Below is generated by plot.py at 2018-04-10 11:04:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 114.807 ms

Loss rate: 0.00%

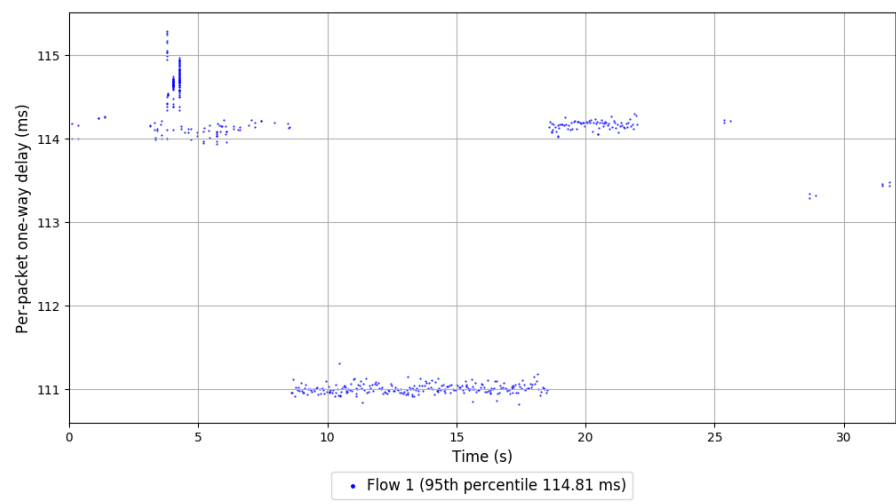
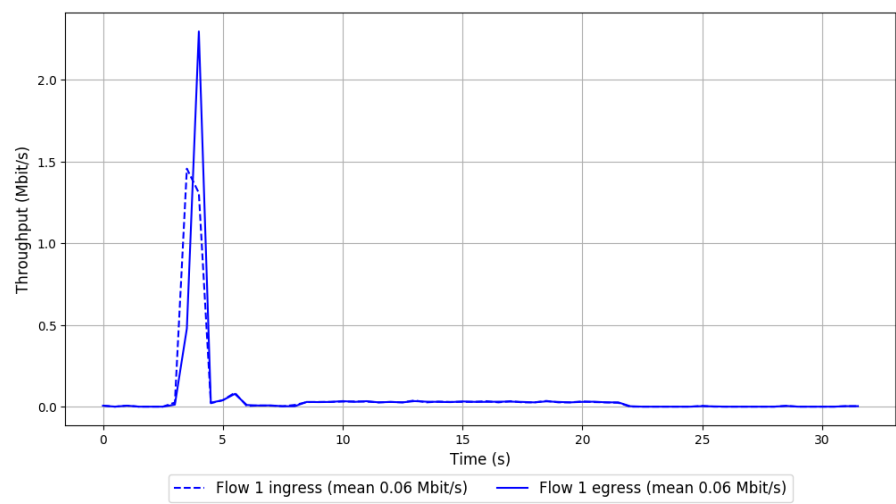
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 114.807 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-04-10 08:04:05

End at: 2018-04-10 08:04:35

Below is generated by plot.py at 2018-04-10 11:04:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 112.731 ms

Loss rate: 0.00%

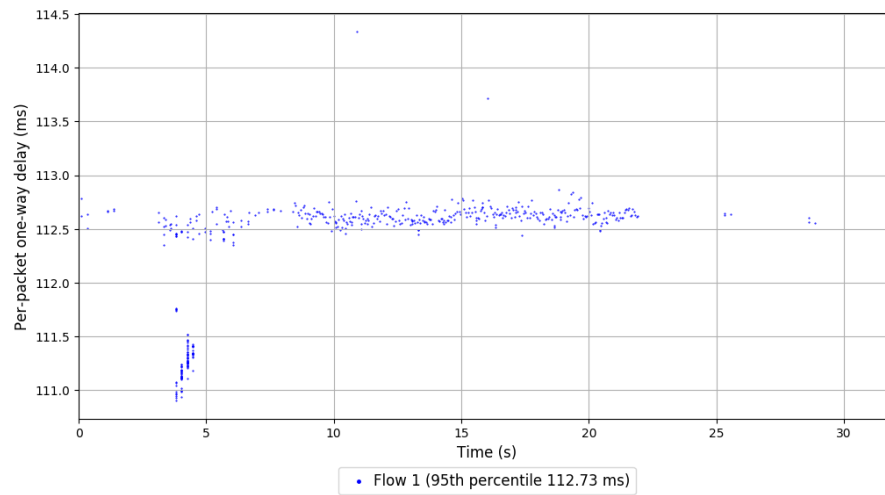
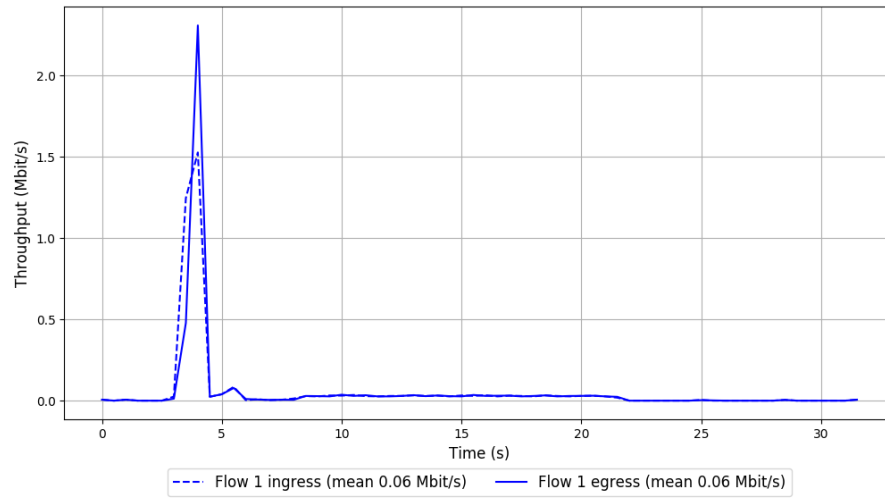
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 112.731 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-04-10 08:19:10

End at: 2018-04-10 08:19:40

Below is generated by plot.py at 2018-04-10 11:04:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 114.959 ms

Loss rate: 0.00%

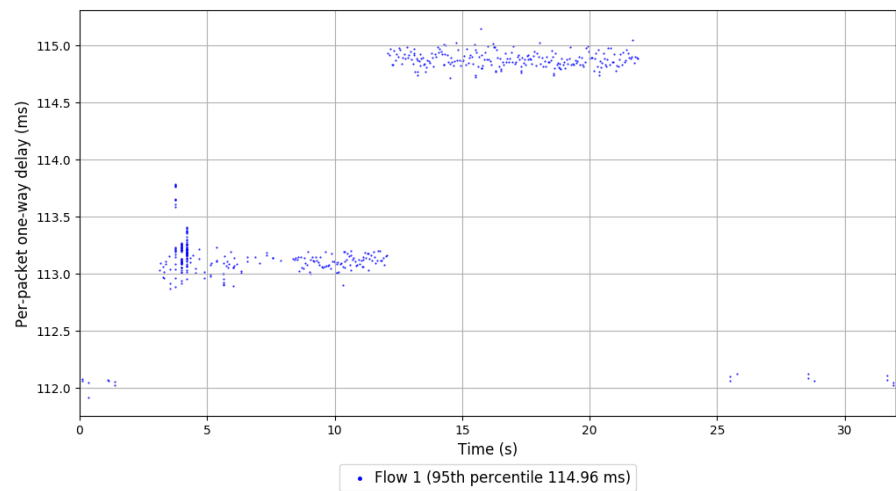
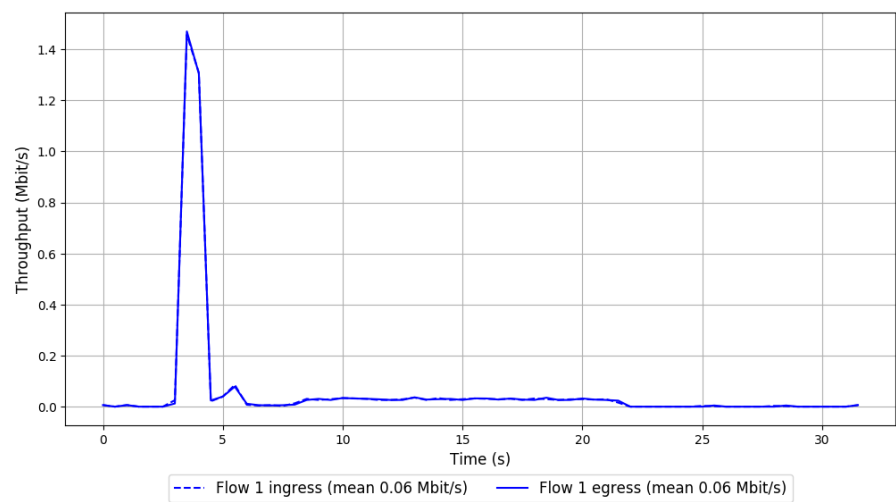
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 114.959 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-04-10 08:33:42

End at: 2018-04-10 08:34:12

Below is generated by plot.py at 2018-04-10 11:04:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 114.391 ms

Loss rate: 0.00%

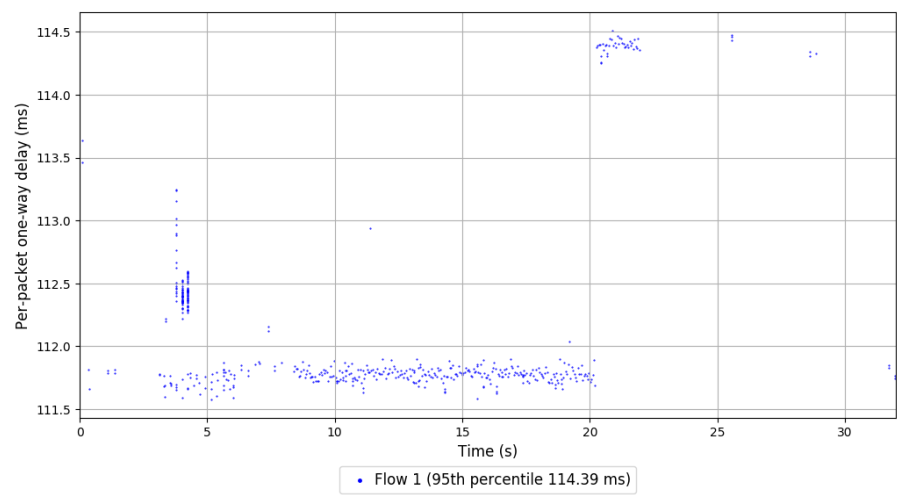
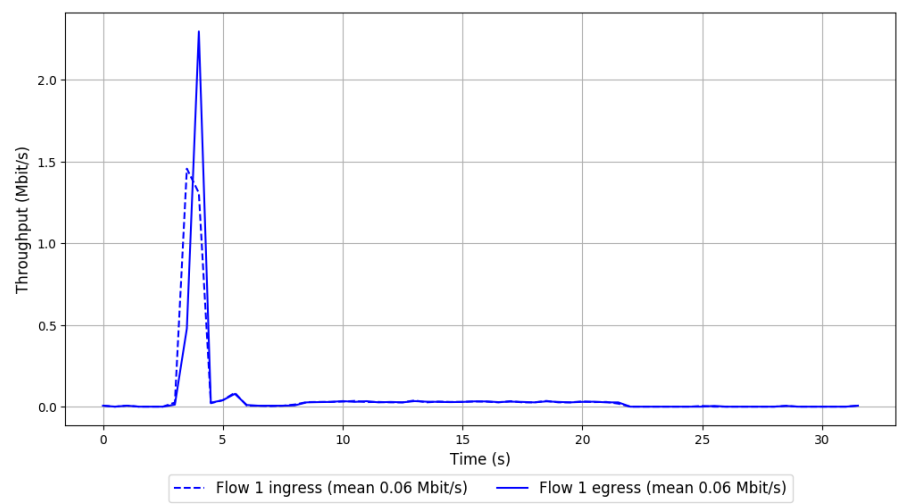
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 114.391 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-04-10 08:49:19

End at: 2018-04-10 08:49:49

Below is generated by plot.py at 2018-04-10 11:04:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 113.122 ms

Loss rate: 0.00%

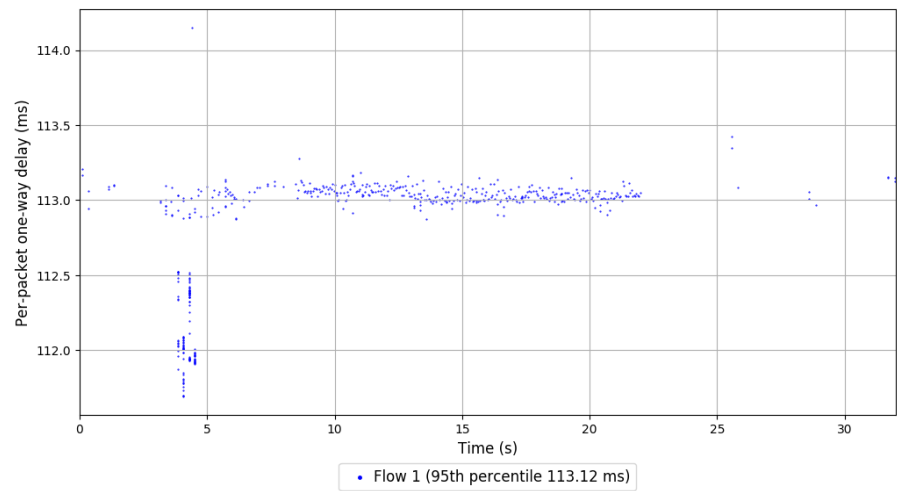
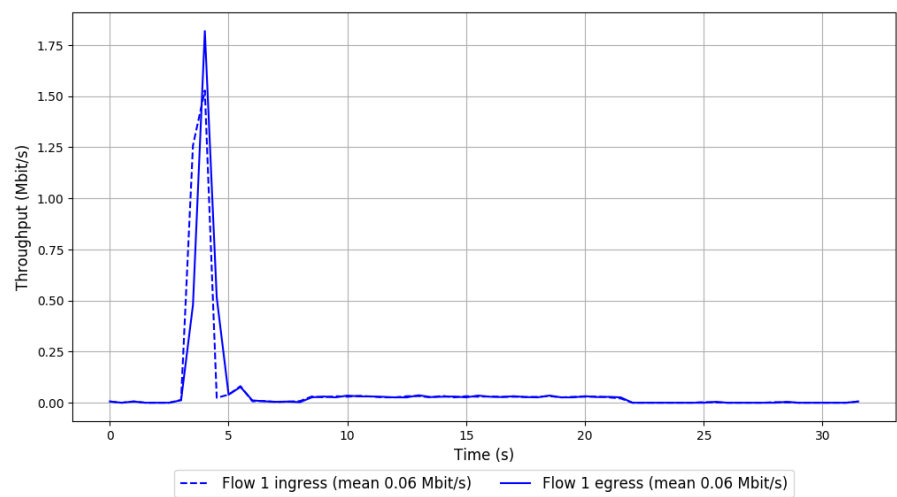
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 113.122 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-04-10 09:04:19

End at: 2018-04-10 09:04:49

Below is generated by plot.py at 2018-04-10 11:04:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 113.425 ms

Loss rate: 0.00%

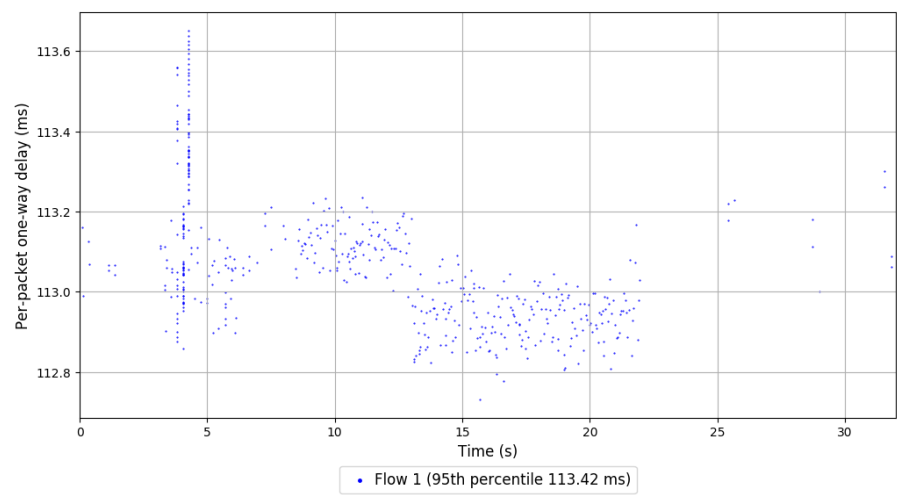
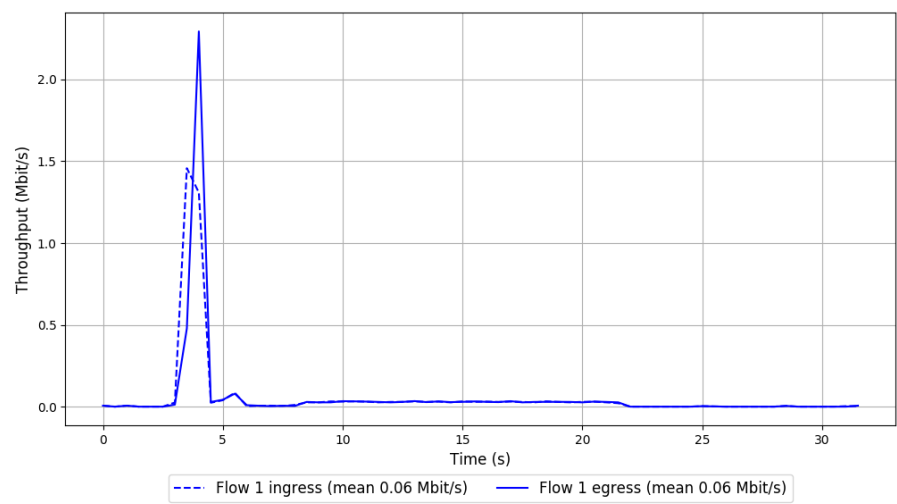
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 113.425 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-04-10 09:19:35

End at: 2018-04-10 09:20:05

Below is generated by plot.py at 2018-04-10 11:04:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 112.940 ms

Loss rate: 0.00%

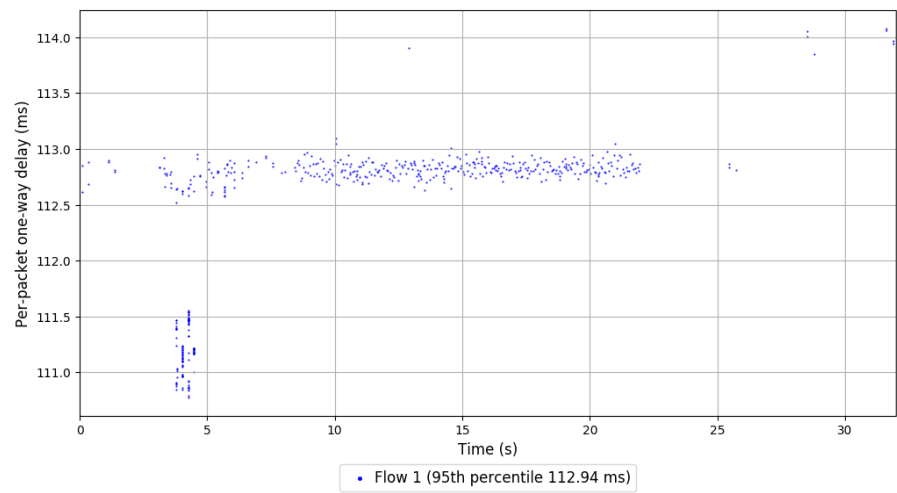
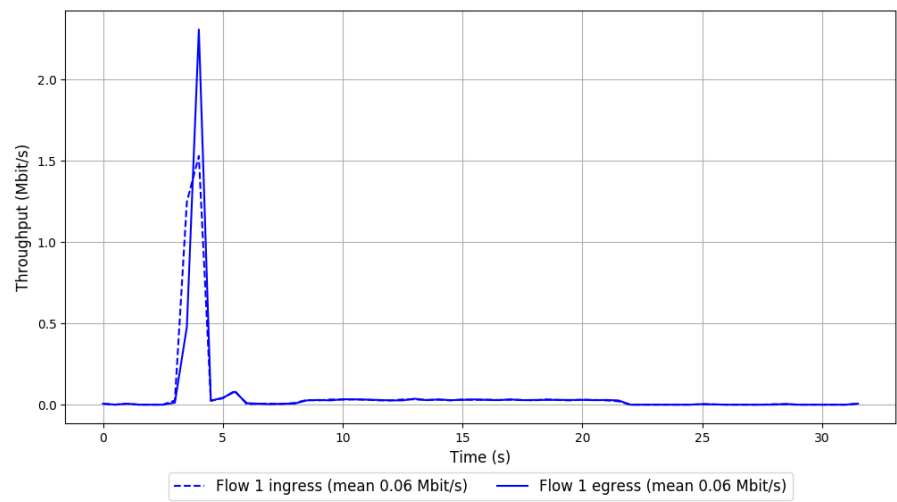
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 112.940 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-04-10 09:34:54

End at: 2018-04-10 09:35:24

Below is generated by plot.py at 2018-04-10 11:04:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.07 Mbit/s

95th percentile per-packet one-way delay: 114.032 ms

Loss rate: 0.00%

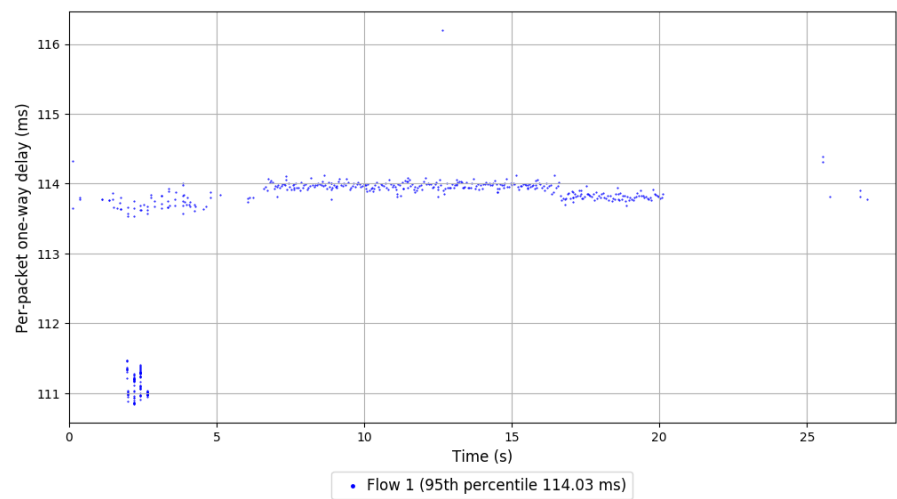
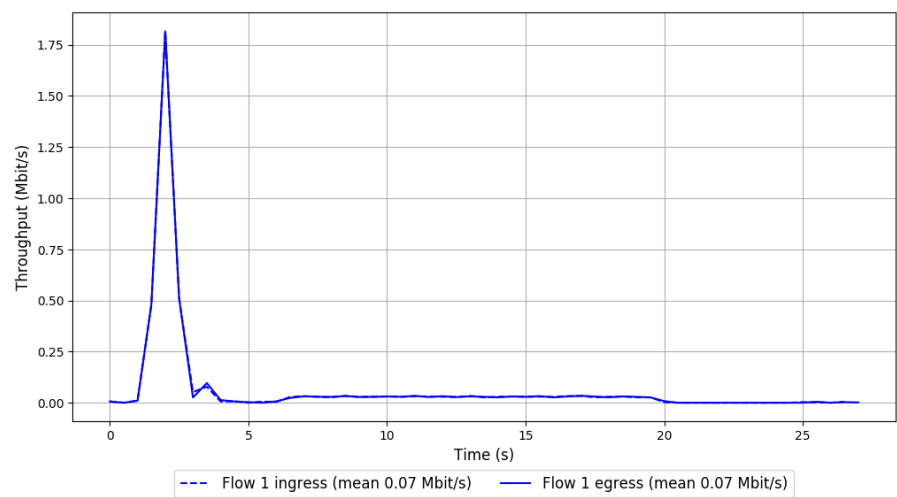
-- Flow 1:

Average throughput: 0.07 Mbit/s

95th percentile per-packet one-way delay: 114.032 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

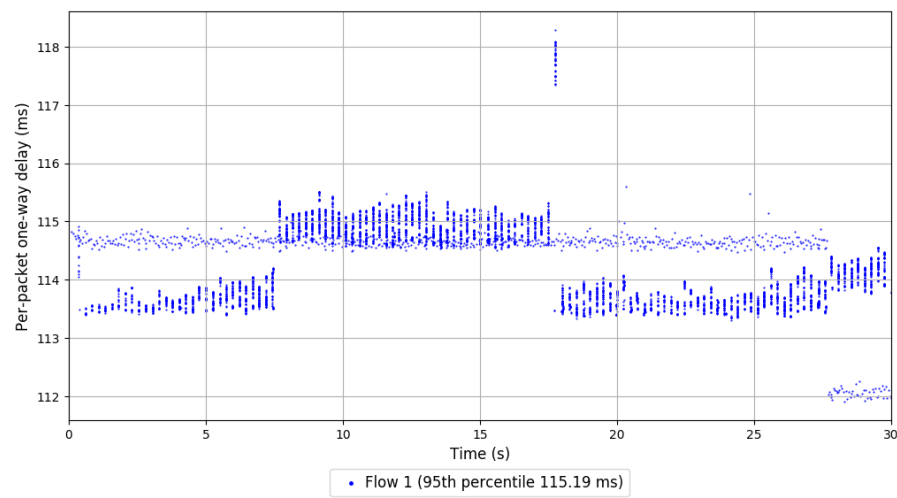
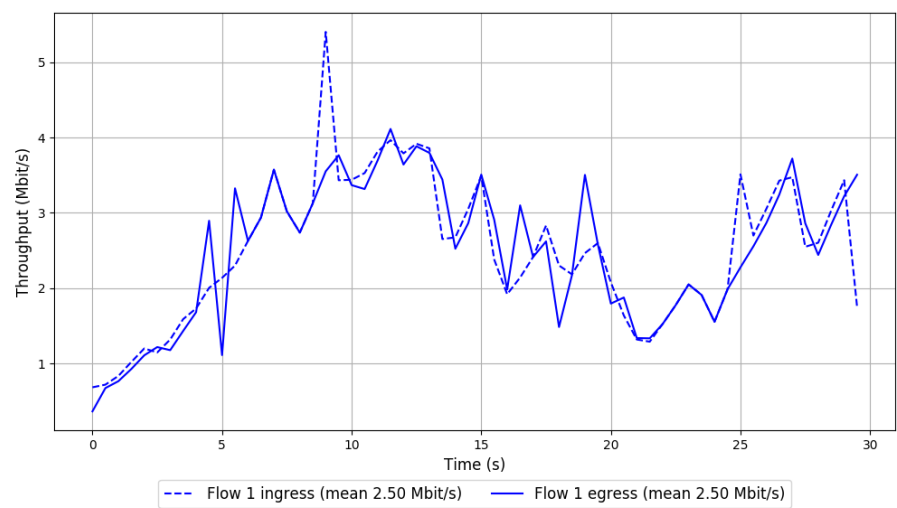


```
Run 1: Statistics of Sprout

Start at: 2018-04-10 07:04:12
End at: 2018-04-10 07:04:42

# Below is generated by plot.py at 2018-04-10 11:04:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.50 Mbit/s
95th percentile per-packet one-way delay: 115.185 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.50 Mbit/s
95th percentile per-packet one-way delay: 115.185 ms
Loss rate: 0.00%
```

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-04-10 07:19:39

End at: 2018-04-10 07:20:09

Below is generated by plot.py at 2018-04-10 11:04:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.38 Mbit/s

95th percentile per-packet one-way delay: 114.725 ms

Loss rate: 0.00%

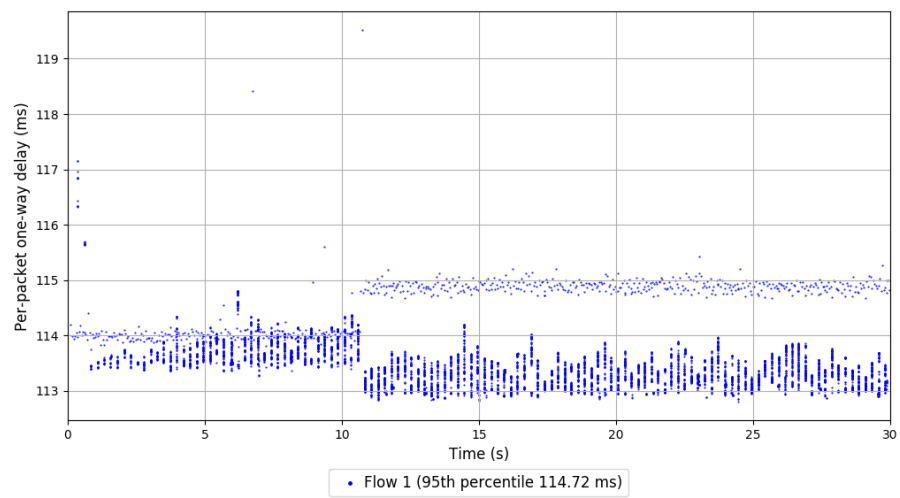
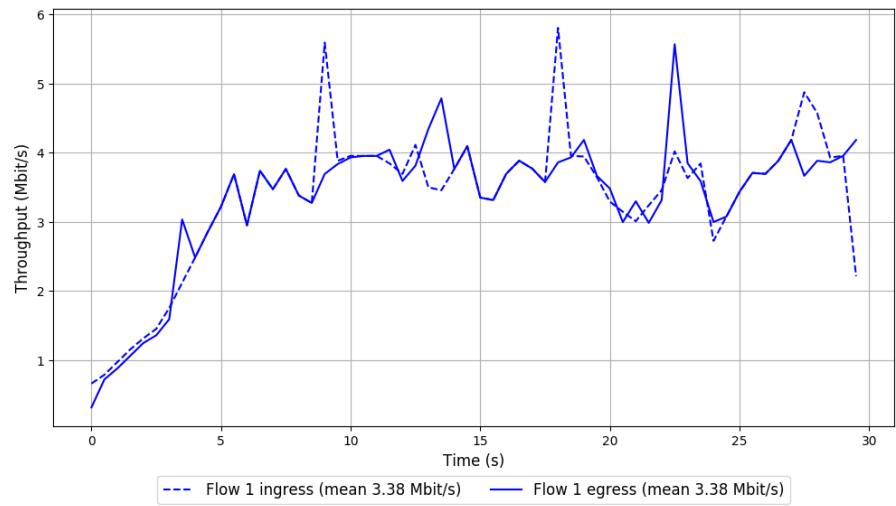
-- Flow 1:

Average throughput: 3.38 Mbit/s

95th percentile per-packet one-way delay: 114.725 ms

Loss rate: 0.00%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-04-10 07:34:46

End at: 2018-04-10 07:35:16

Below is generated by plot.py at 2018-04-10 11:04:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.45 Mbit/s

95th percentile per-packet one-way delay: 113.983 ms

Loss rate: 0.00%

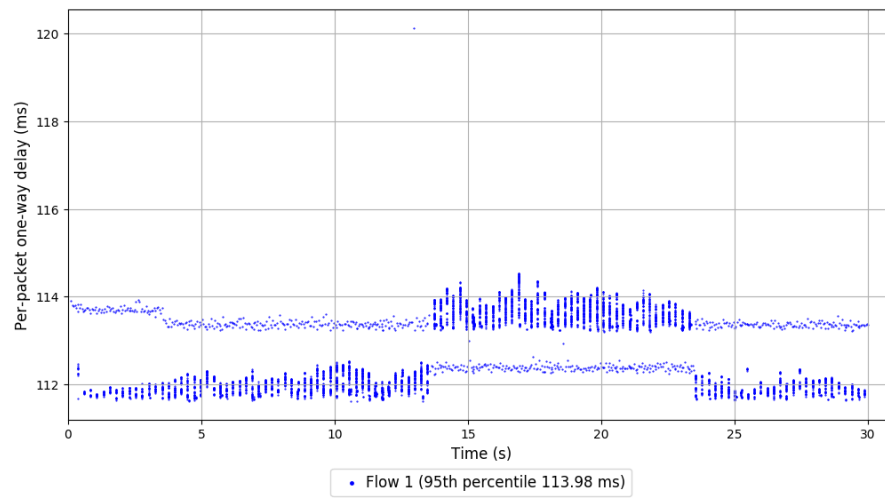
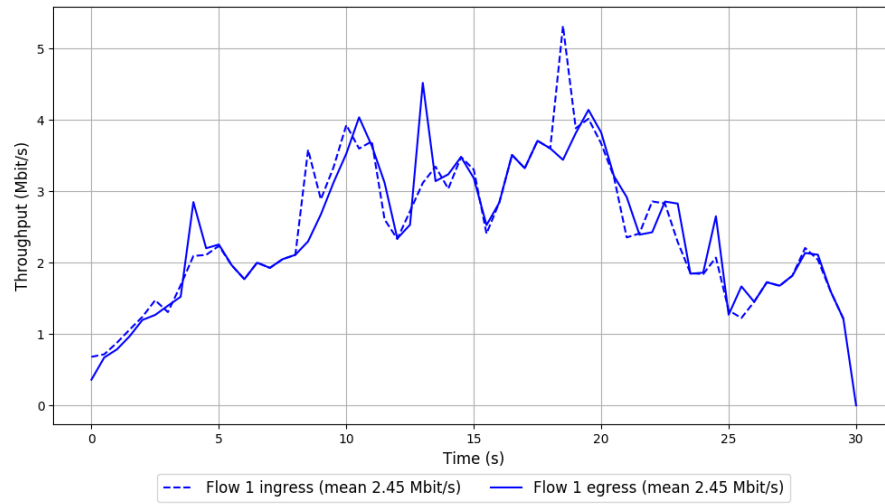
-- Flow 1:

Average throughput: 2.45 Mbit/s

95th percentile per-packet one-way delay: 113.983 ms

Loss rate: 0.00%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-04-10 07:49:54

End at: 2018-04-10 07:50:24

Below is generated by plot.py at 2018-04-10 11:04:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.19 Mbit/s

95th percentile per-packet one-way delay: 114.755 ms

Loss rate: 0.00%

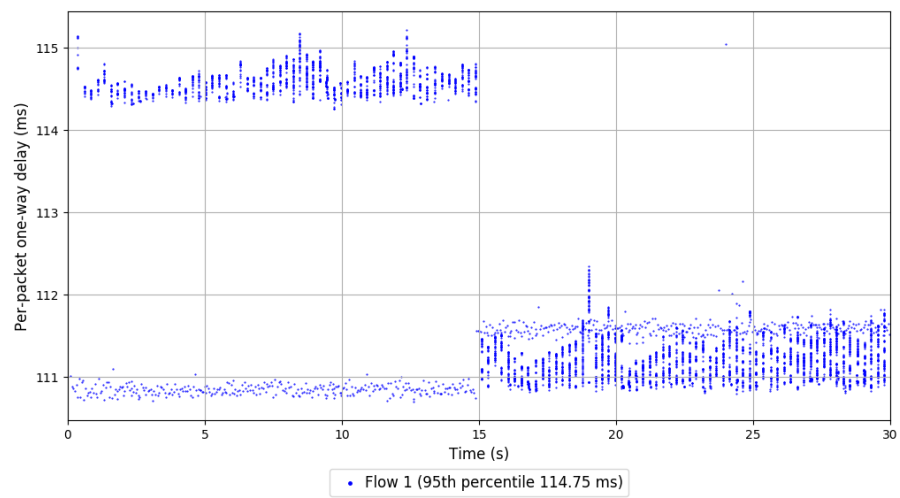
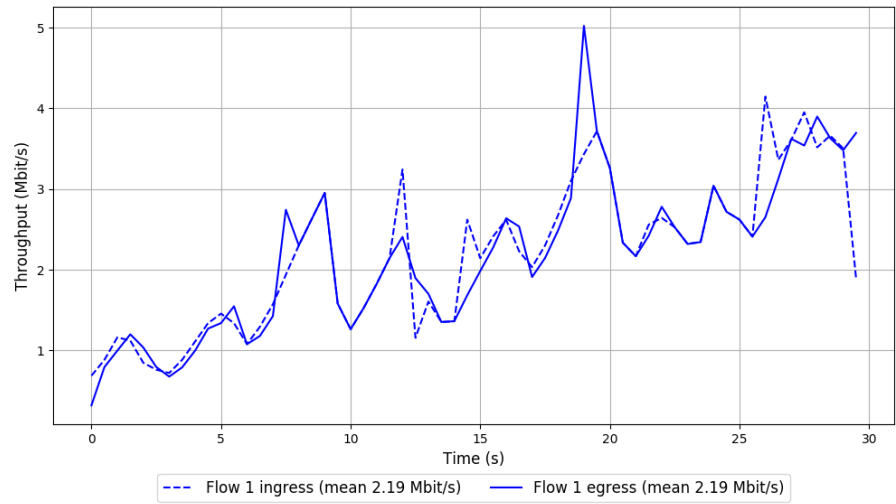
-- Flow 1:

Average throughput: 2.19 Mbit/s

95th percentile per-packet one-way delay: 114.755 ms

Loss rate: 0.00%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-04-10 08:04:46

End at: 2018-04-10 08:05:16

Below is generated by plot.py at 2018-04-10 11:04:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.02 Mbit/s

95th percentile per-packet one-way delay: 115.407 ms

Loss rate: 0.00%

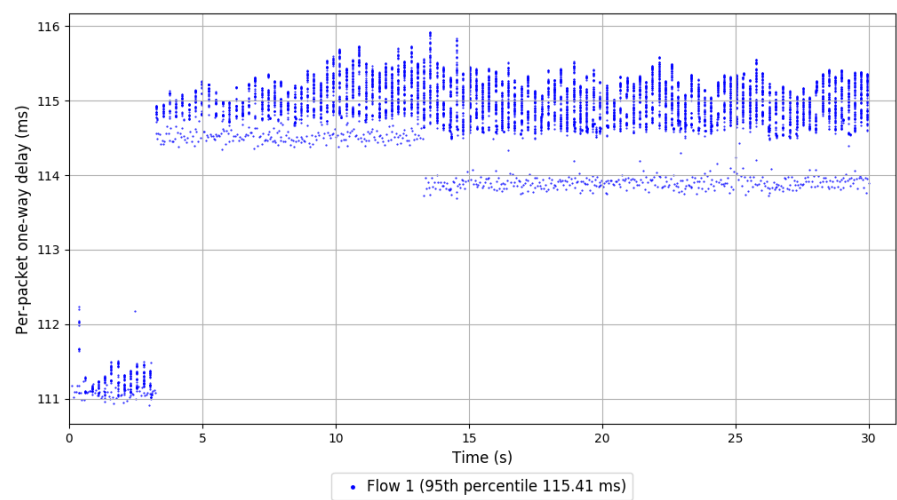
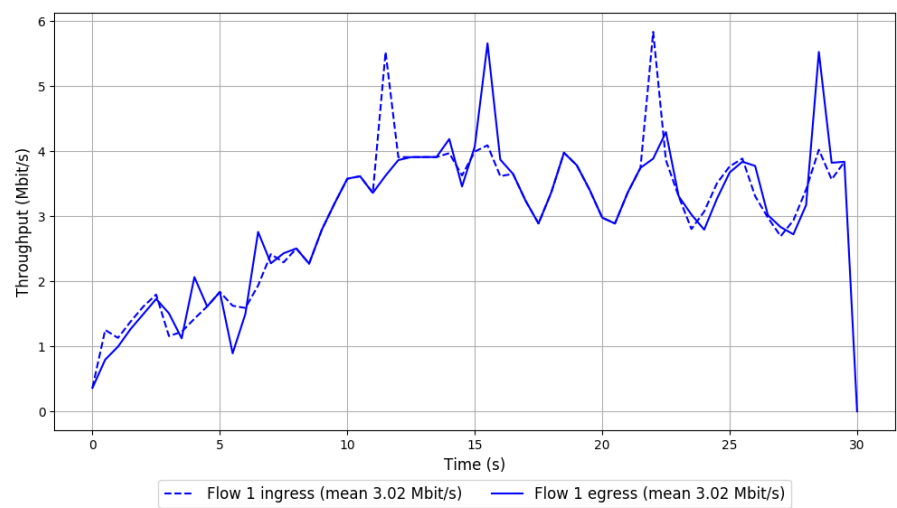
-- Flow 1:

Average throughput: 3.02 Mbit/s

95th percentile per-packet one-way delay: 115.407 ms

Loss rate: 0.00%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-04-10 08:19:51

End at: 2018-04-10 08:20:21

Below is generated by plot.py at 2018-04-10 11:04:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.85 Mbit/s

95th percentile per-packet one-way delay: 115.287 ms

Loss rate: 0.00%

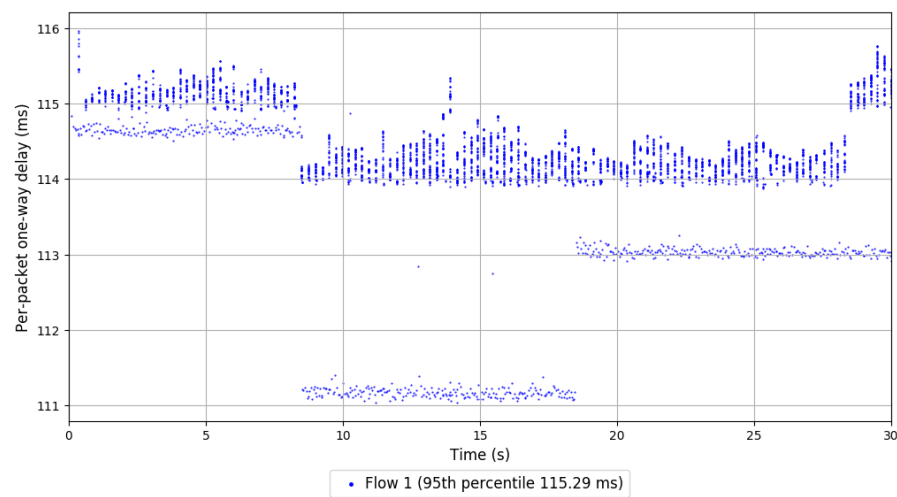
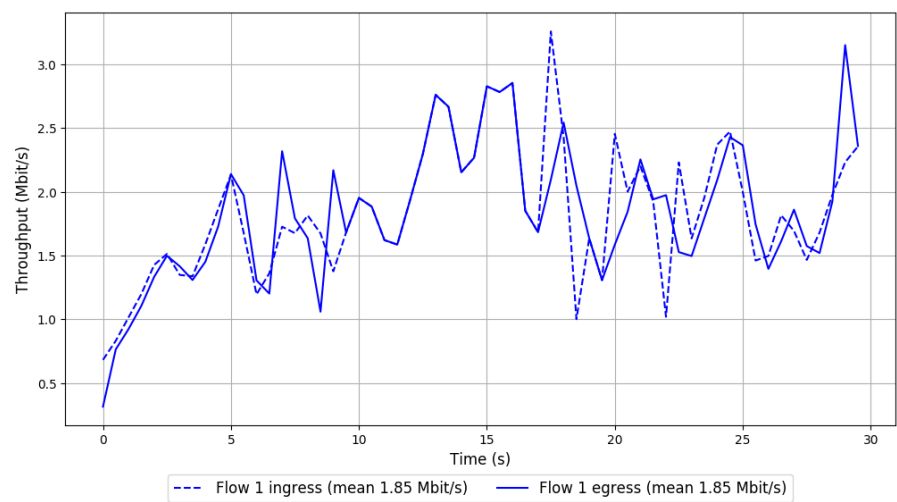
-- Flow 1:

Average throughput: 1.85 Mbit/s

95th percentile per-packet one-way delay: 115.287 ms

Loss rate: 0.00%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-04-10 08:34:23

End at: 2018-04-10 08:34:53

Below is generated by plot.py at 2018-04-10 11:04:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 113.861 ms

Loss rate: 0.00%

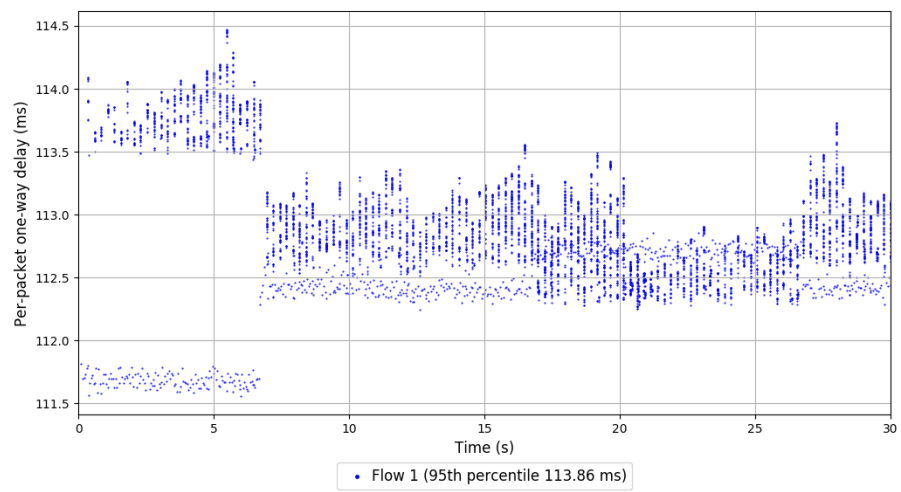
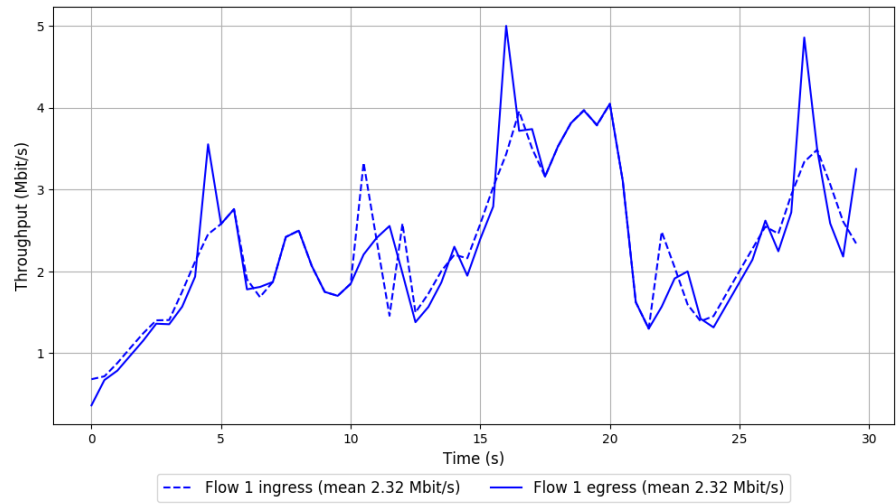
-- Flow 1:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 113.861 ms

Loss rate: 0.00%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-04-10 08:50:00

End at: 2018-04-10 08:50:30

Below is generated by plot.py at 2018-04-10 11:04:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.18 Mbit/s

95th percentile per-packet one-way delay: 113.725 ms

Loss rate: 0.00%

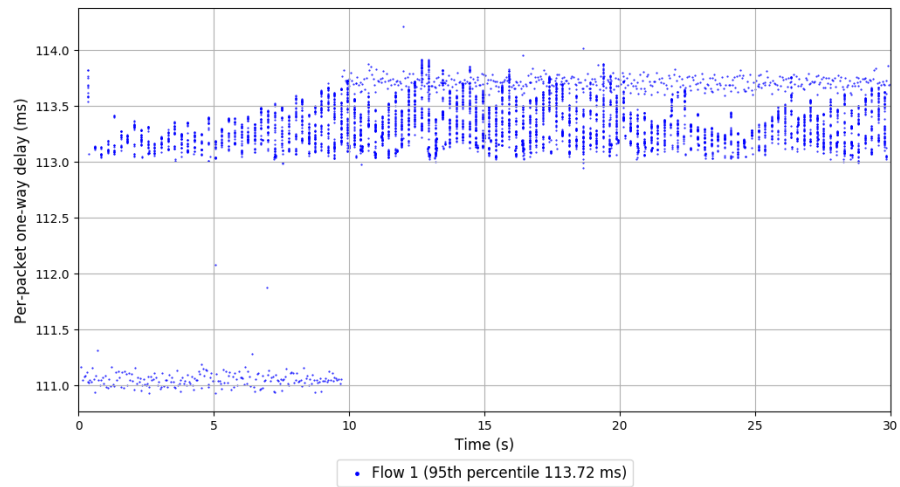
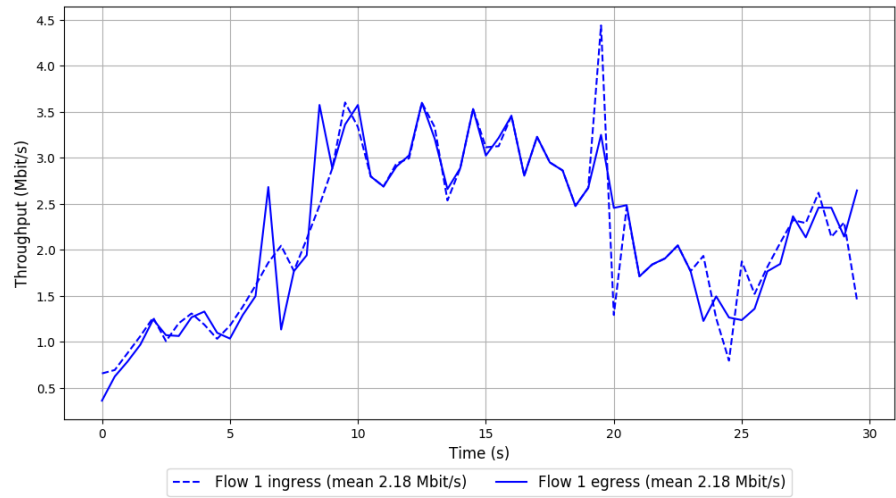
-- Flow 1:

Average throughput: 2.18 Mbit/s

95th percentile per-packet one-way delay: 113.725 ms

Loss rate: 0.00%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-04-10 09:05:00

End at: 2018-04-10 09:05:30

Below is generated by plot.py at 2018-04-10 11:04:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.33 Mbit/s

95th percentile per-packet one-way delay: 113.637 ms

Loss rate: 0.00%

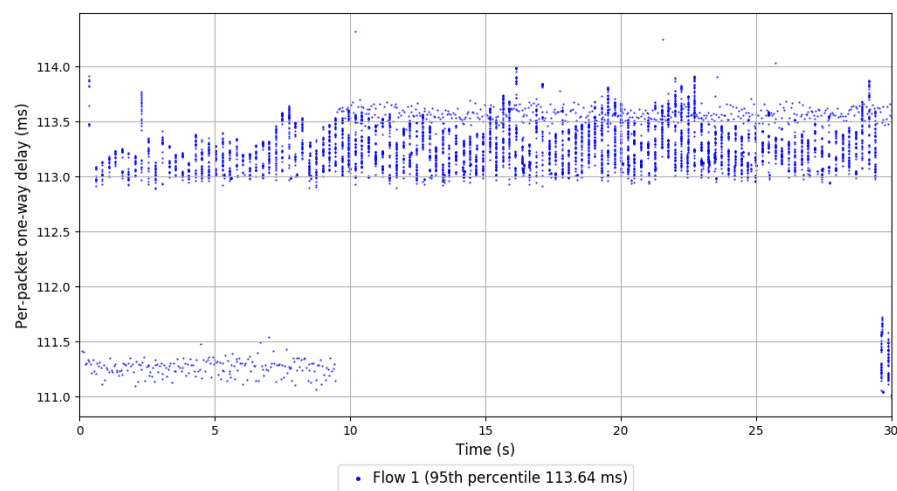
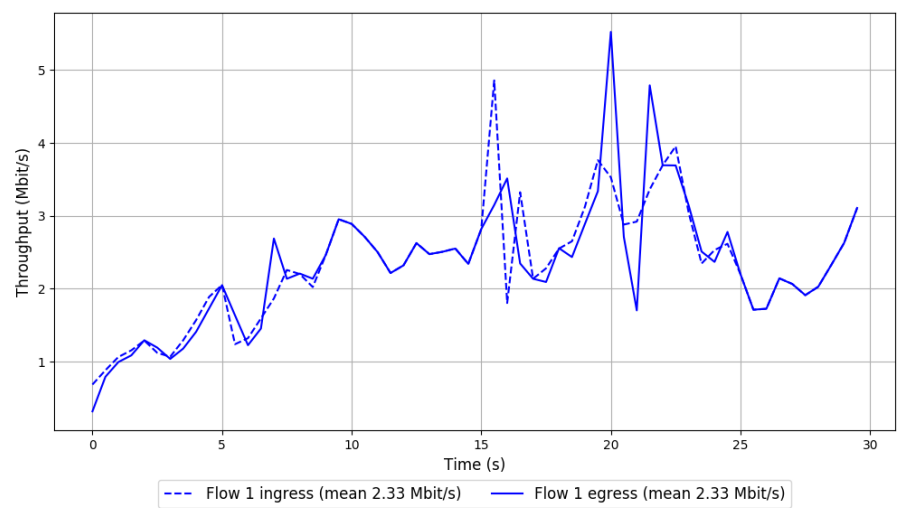
-- Flow 1:

Average throughput: 2.33 Mbit/s

95th percentile per-packet one-way delay: 113.637 ms

Loss rate: 0.00%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-04-10 09:20:16

End at: 2018-04-10 09:20:46

Below is generated by plot.py at 2018-04-10 11:04:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.45 Mbit/s

95th percentile per-packet one-way delay: 112.258 ms

Loss rate: 0.00%

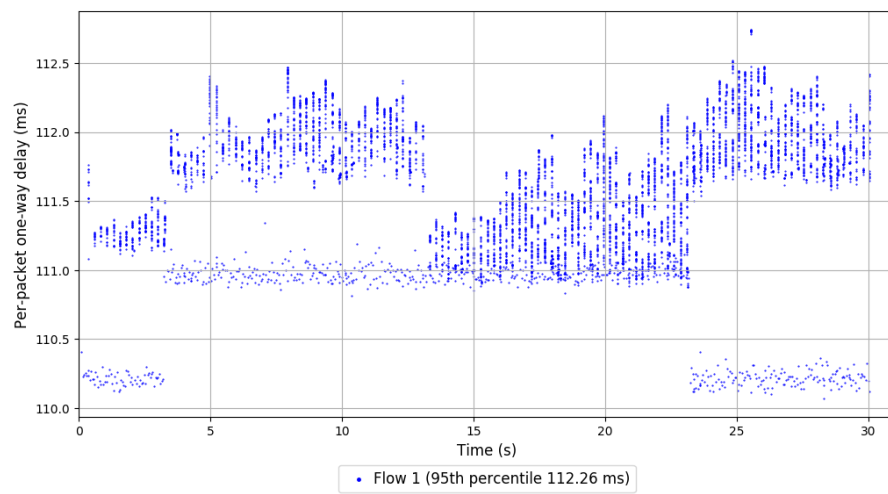
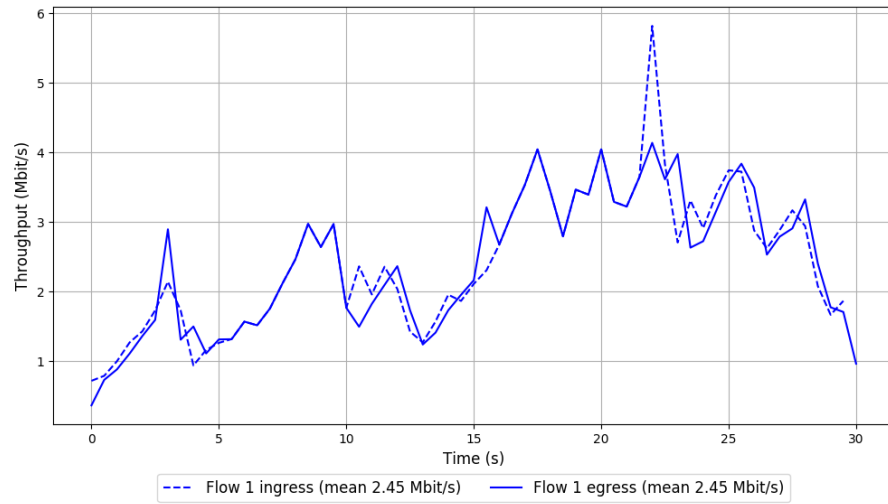
-- Flow 1:

Average throughput: 2.45 Mbit/s

95th percentile per-packet one-way delay: 112.258 ms

Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

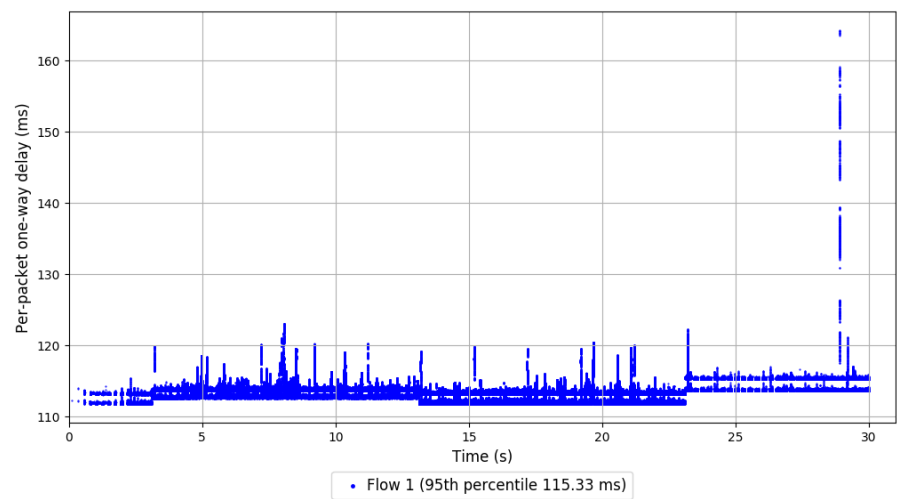
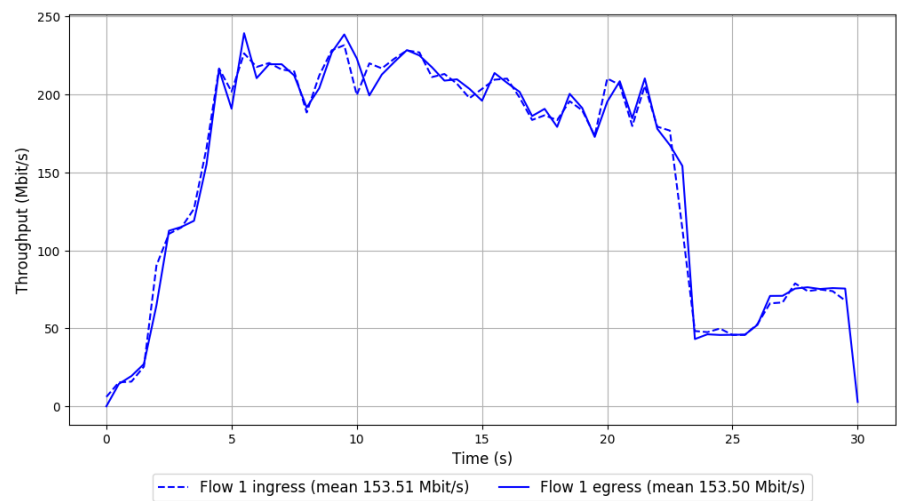


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-04-10 07:15:46
End at: 2018-04-10 07:16:16

# Below is generated by plot.py at 2018-04-10 11:04:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 153.50 Mbit/s
95th percentile per-packet one-way delay: 115.329 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 153.50 Mbit/s
95th percentile per-packet one-way delay: 115.329 ms
Loss rate: 0.00%
```

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

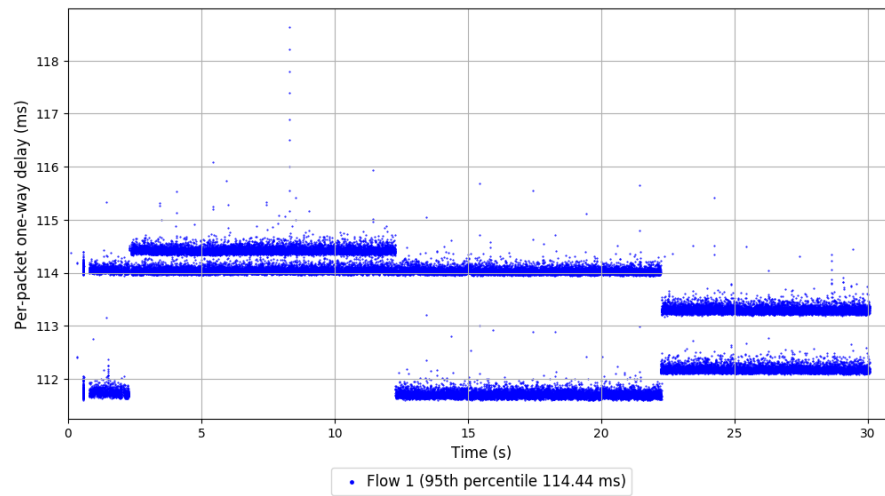
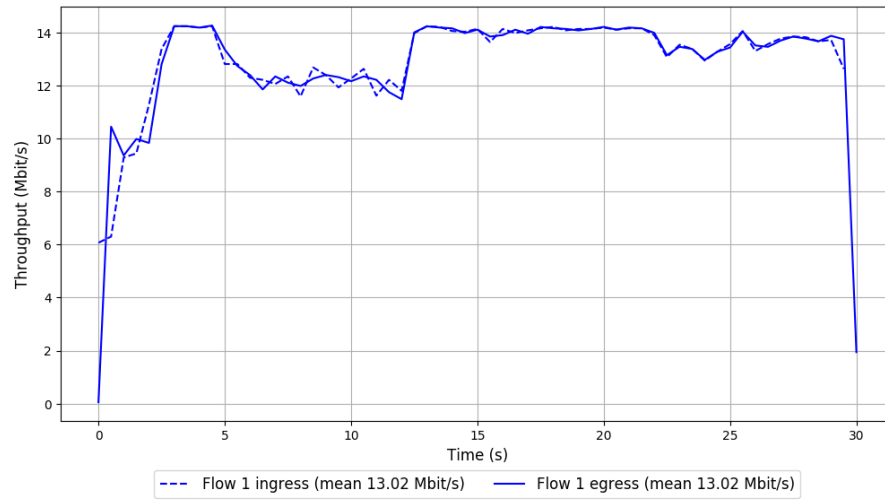


```
Run 2: Statistics of TaoVA-100x

Start at: 2018-04-10 07:31:07
End at: 2018-04-10 07:31:37

# Below is generated by plot.py at 2018-04-10 11:04:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 13.02 Mbit/s
95th percentile per-packet one-way delay: 114.445 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 13.02 Mbit/s
95th percentile per-packet one-way delay: 114.445 ms
Loss rate: 0.00%
```

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-04-10 07:46:14

End at: 2018-04-10 07:46:44

Below is generated by plot.py at 2018-04-10 11:04:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 34.06 Mbit/s

95th percentile per-packet one-way delay: 114.255 ms

Loss rate: 0.00%

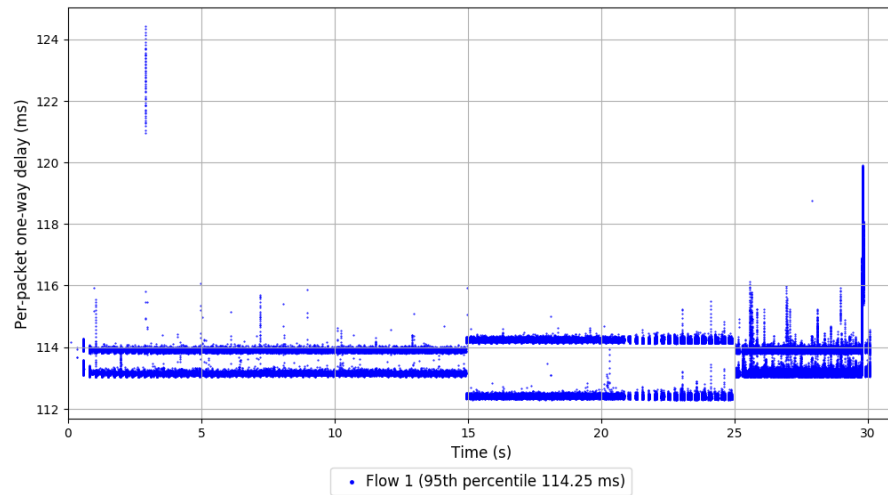
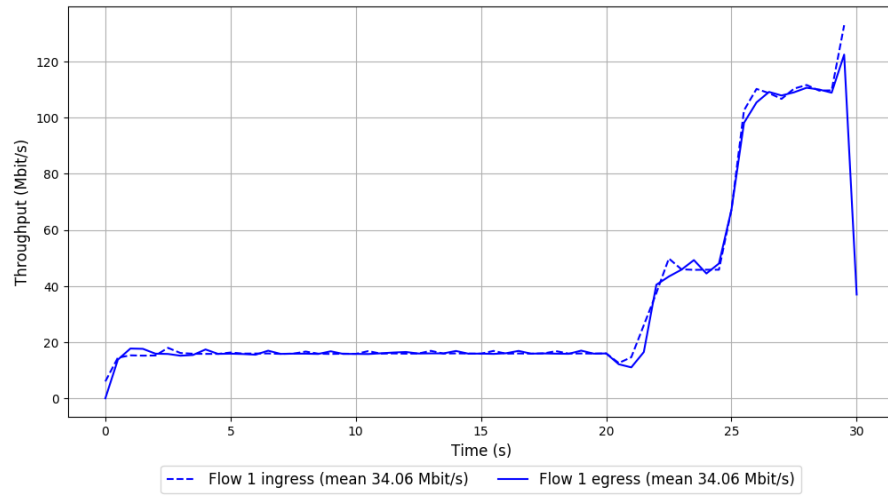
-- Flow 1:

Average throughput: 34.06 Mbit/s

95th percentile per-packet one-way delay: 114.255 ms

Loss rate: 0.00%

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

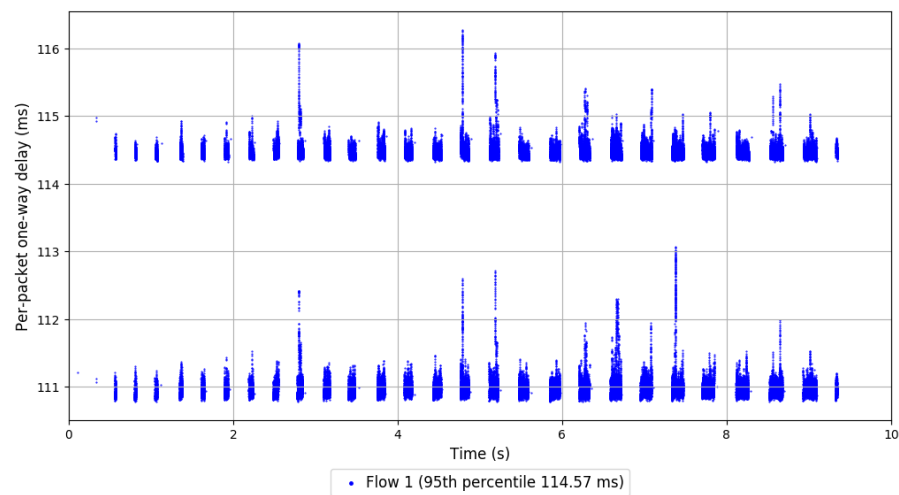
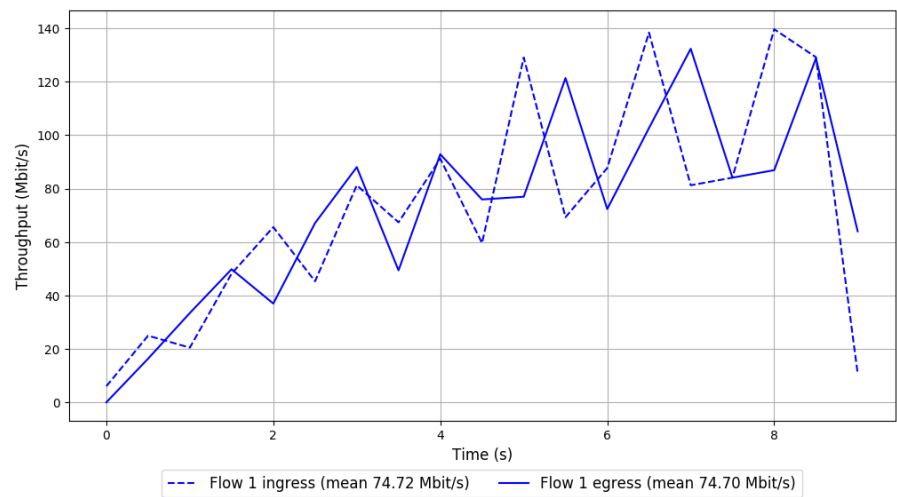


Run 4: Statistics of TaoVA-100x

Start at: 2018-04-10 08:01:07

End at: 2018-04-10 08:01:37

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

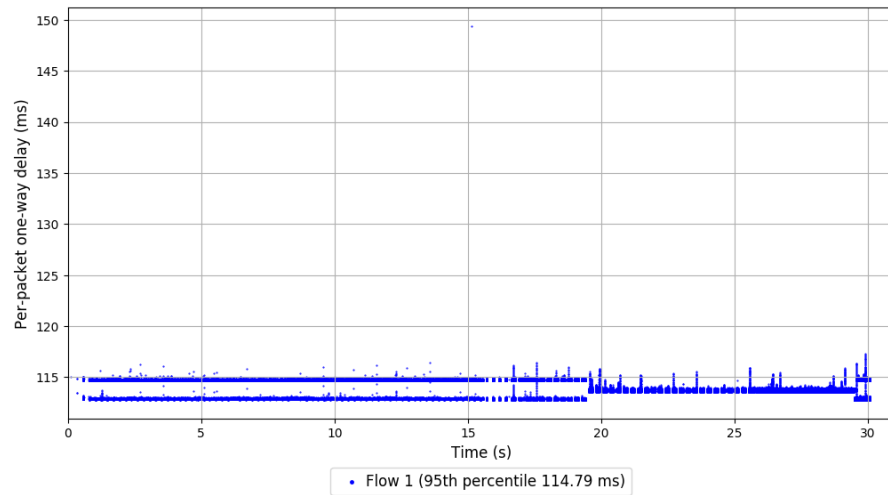
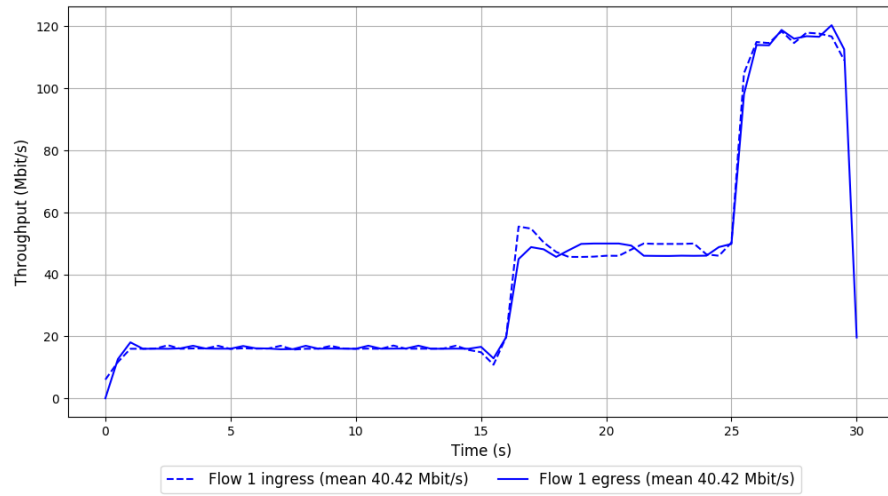


```
Run 5: Statistics of TaoVA-100x

Start at: 2018-04-10 08:16:10
End at: 2018-04-10 08:16:40

# Below is generated by plot.py at 2018-04-10 11:04:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 40.42 Mbit/s
95th percentile per-packet one-way delay: 114.787 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 40.42 Mbit/s
95th percentile per-packet one-way delay: 114.787 ms
Loss rate: 0.00%
```

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-04-10 08:30:44

End at: 2018-04-10 08:31:14

Below is generated by plot.py at 2018-04-10 11:04:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 16.05 Mbit/s

95th percentile per-packet one-way delay: 114.287 ms

Loss rate: 0.00%

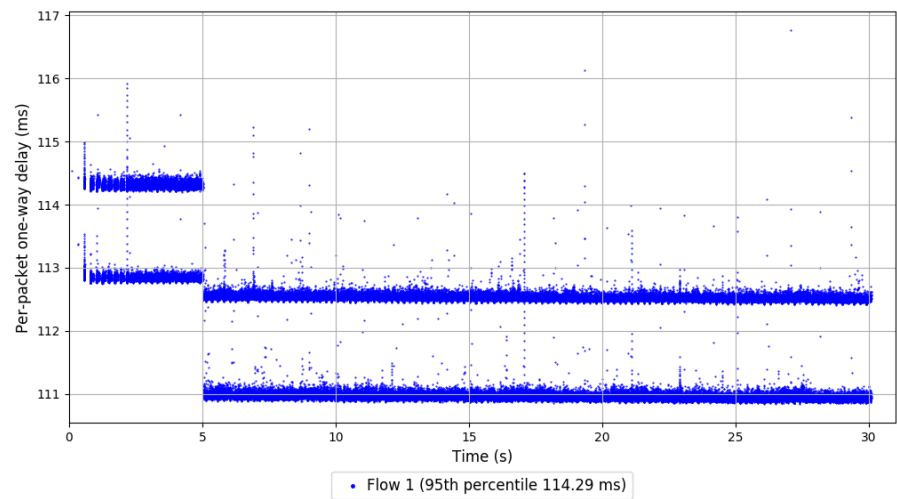
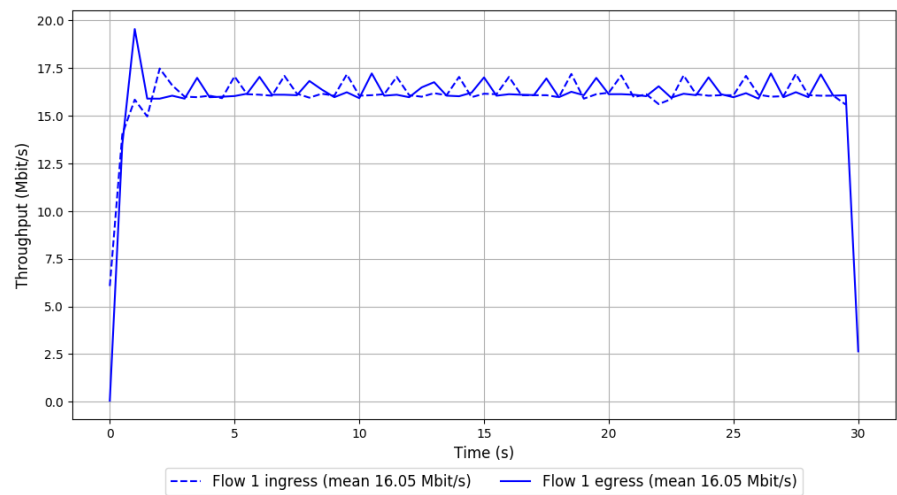
-- Flow 1:

Average throughput: 16.05 Mbit/s

95th percentile per-packet one-way delay: 114.287 ms

Loss rate: 0.00%

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

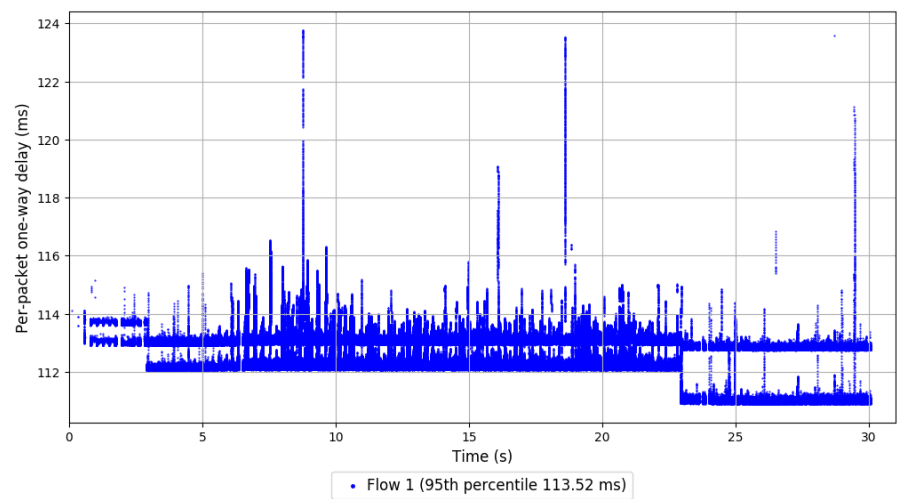
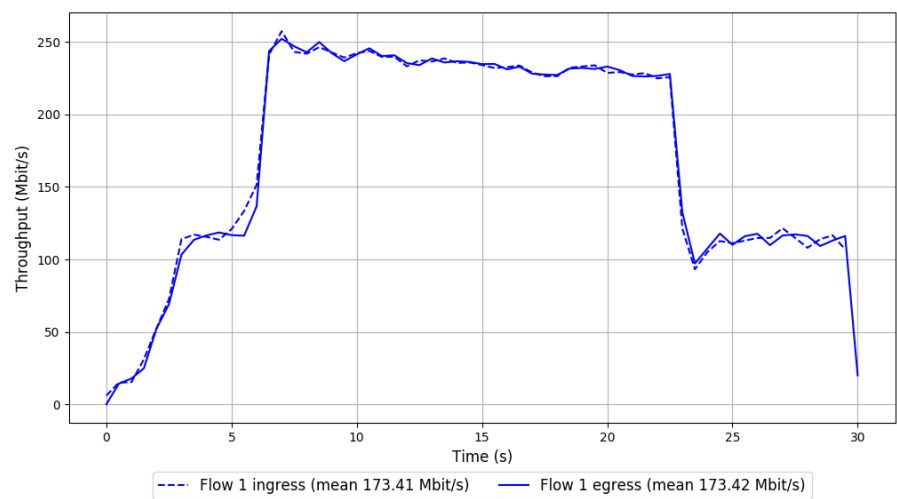


```
Run 7: Statistics of TaoVA-100x

Start at: 2018-04-10 08:46:06
End at: 2018-04-10 08:46:36

# Below is generated by plot.py at 2018-04-10 11:04:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 173.42 Mbit/s
95th percentile per-packet one-way delay: 113.519 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 173.42 Mbit/s
95th percentile per-packet one-way delay: 113.519 ms
Loss rate: 0.00%
```

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-04-10 09:01:22

End at: 2018-04-10 09:01:52

Below is generated by plot.py at 2018-04-10 11:04:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 15.77 Mbit/s

95th percentile per-packet one-way delay: 112.921 ms

Loss rate: 0.00%

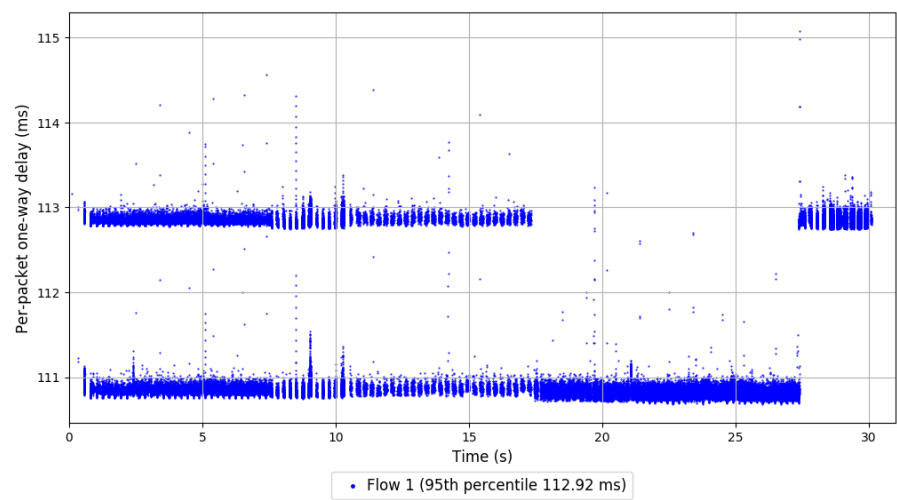
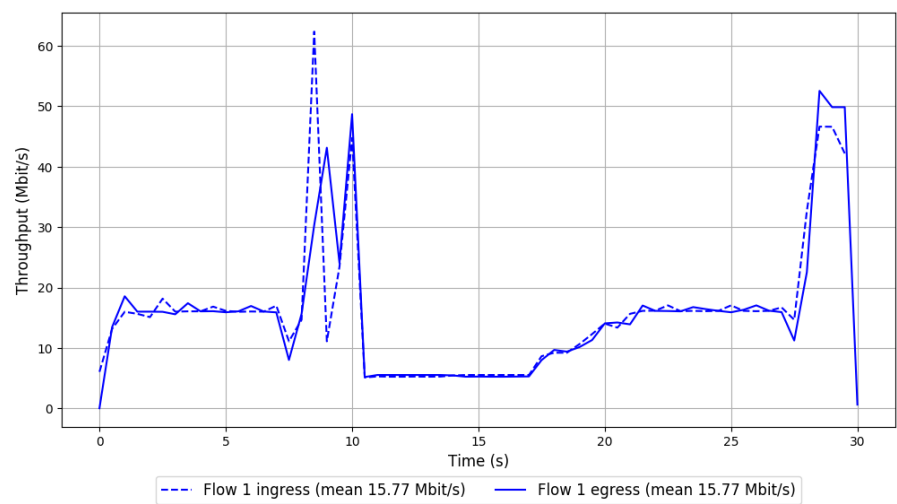
-- Flow 1:

Average throughput: 15.77 Mbit/s

95th percentile per-packet one-way delay: 112.921 ms

Loss rate: 0.00%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-04-10 09:16:35

End at: 2018-04-10 09:17:05

Below is generated by plot.py at 2018-04-10 11:04:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 55.11 Mbit/s

95th percentile per-packet one-way delay: 113.441 ms

Loss rate: 0.00%

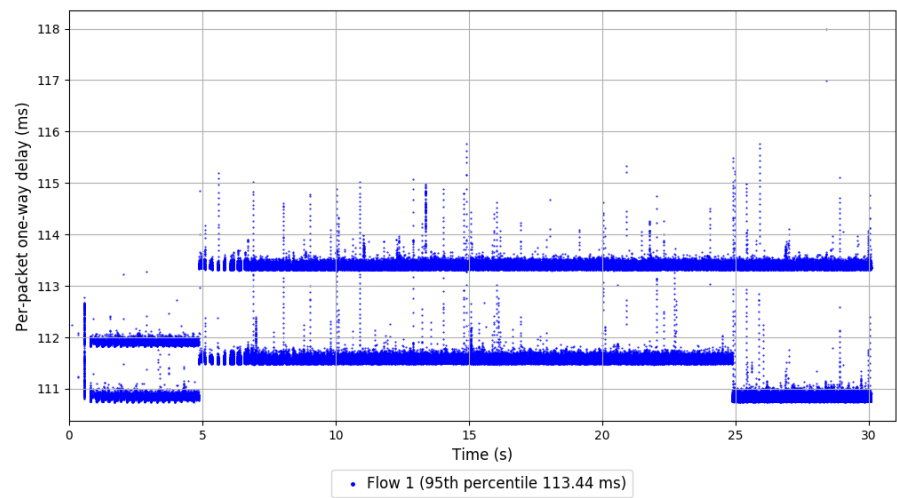
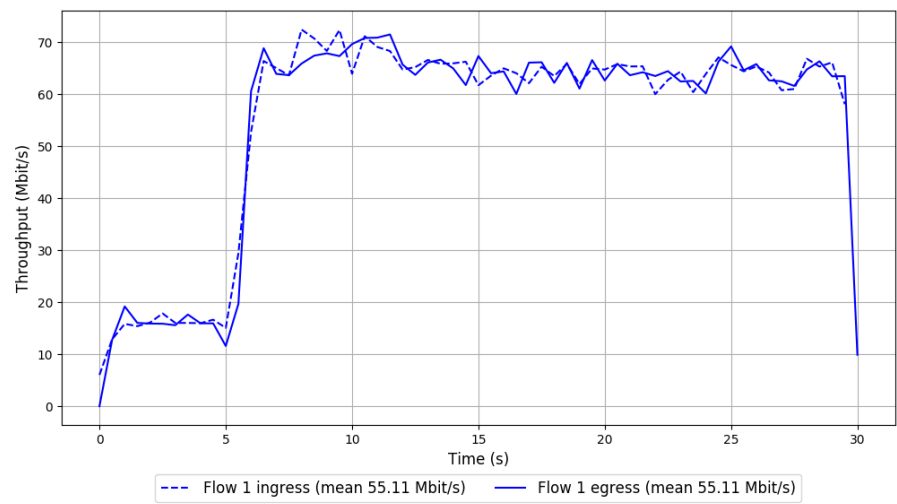
-- Flow 1:

Average throughput: 55.11 Mbit/s

95th percentile per-packet one-way delay: 113.441 ms

Loss rate: 0.00%

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

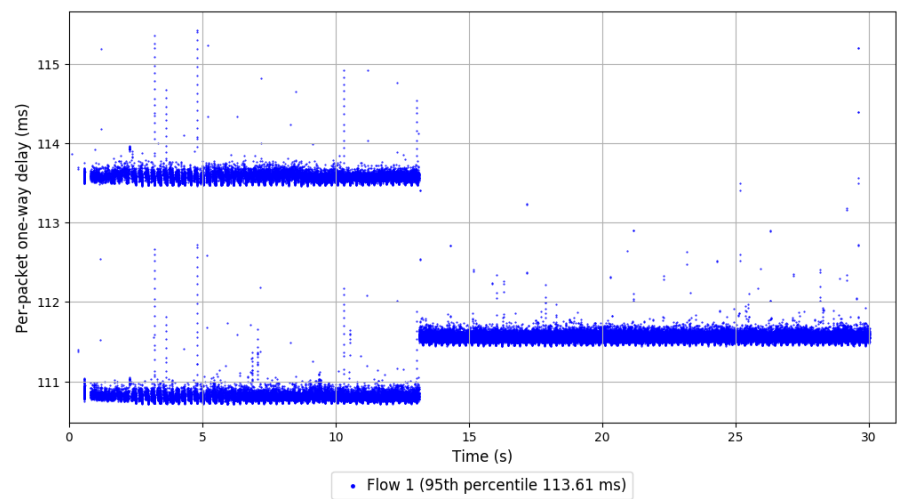
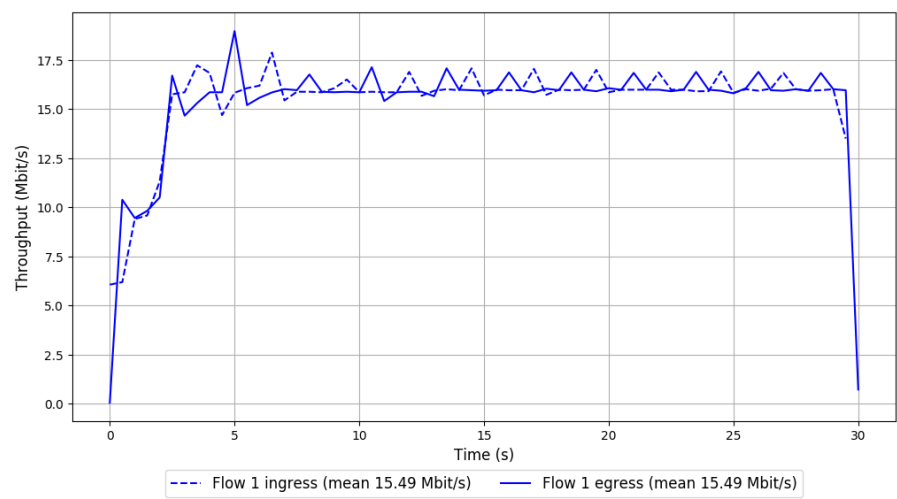


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-04-10 09:31:56
End at: 2018-04-10 09:32:26

# Below is generated by plot.py at 2018-04-10 11:04:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 15.49 Mbit/s
95th percentile per-packet one-way delay: 113.615 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 15.49 Mbit/s
95th percentile per-packet one-way delay: 113.615 ms
Loss rate: 0.00%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2018-04-10 07:08:23

End at: 2018-04-10 07:08:53

Below is generated by plot.py at 2018-04-10 11:04:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 102.17 Mbit/s

95th percentile per-packet one-way delay: 121.886 ms

Loss rate: 0.03%

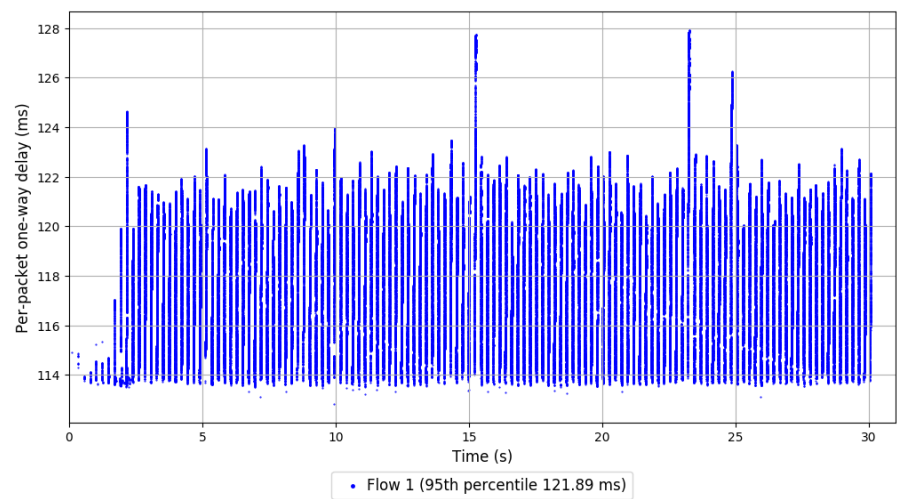
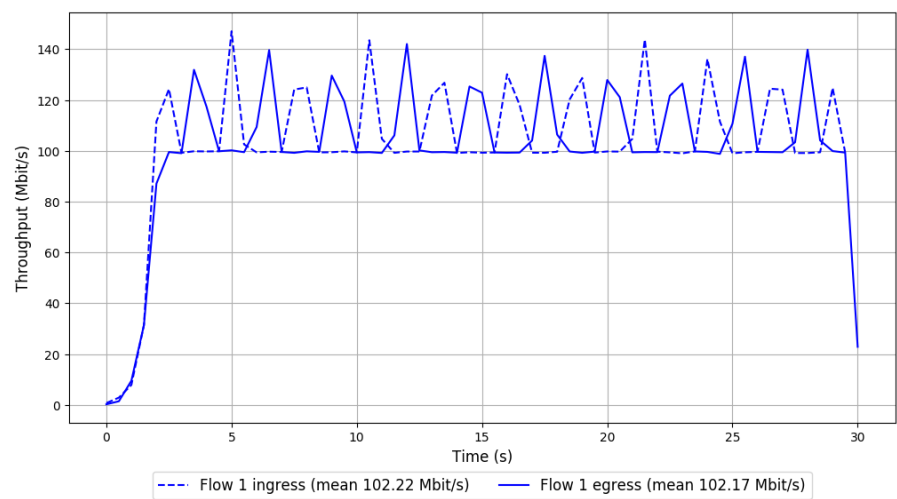
-- Flow 1:

Average throughput: 102.17 Mbit/s

95th percentile per-packet one-way delay: 121.886 ms

Loss rate: 0.03%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-04-10 07:23:56

End at: 2018-04-10 07:24:26

Below is generated by plot.py at 2018-04-10 11:04:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 103.19 Mbit/s

95th percentile per-packet one-way delay: 122.998 ms

Loss rate: 0.01%

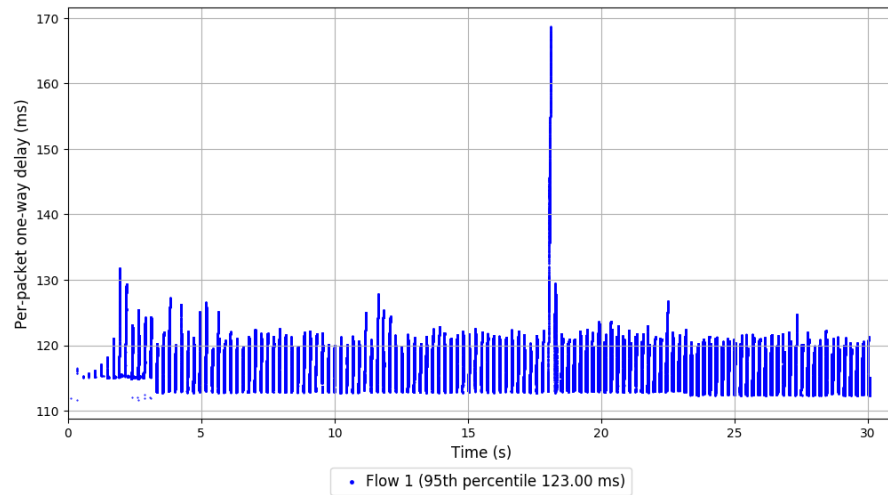
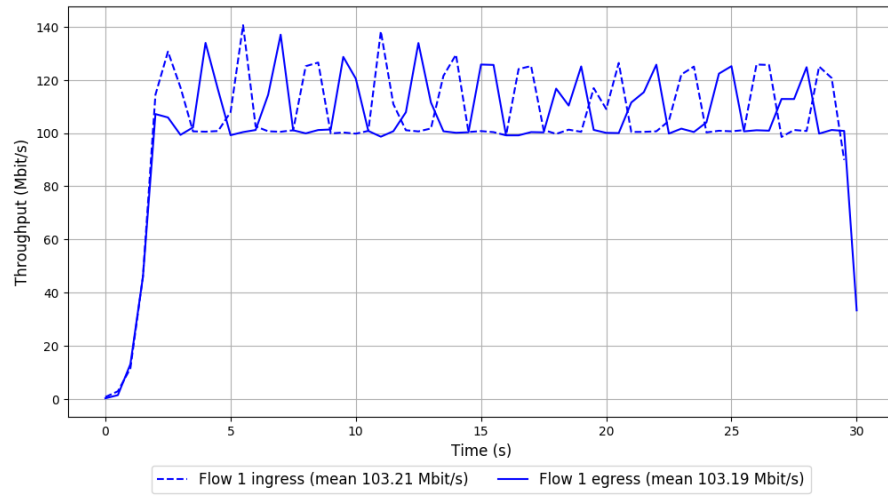
-- Flow 1:

Average throughput: 103.19 Mbit/s

95th percentile per-packet one-way delay: 122.998 ms

Loss rate: 0.01%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-04-10 07:39:02

End at: 2018-04-10 07:39:32

Below is generated by plot.py at 2018-04-10 11:04:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 70.75 Mbit/s

95th percentile per-packet one-way delay: 121.171 ms

Loss rate: 0.00%

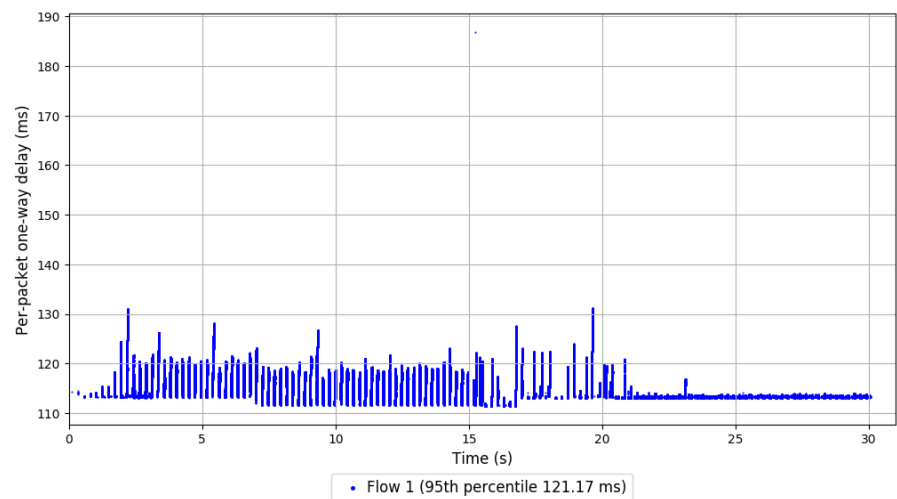
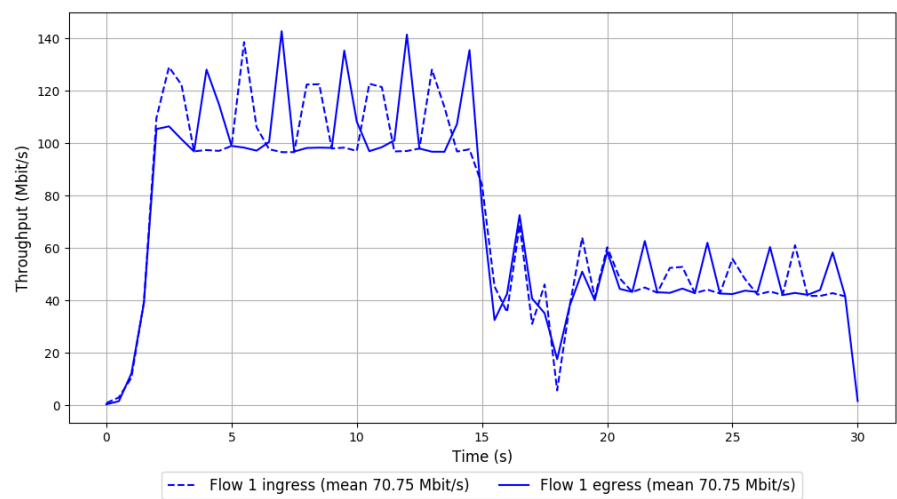
-- Flow 1:

Average throughput: 70.75 Mbit/s

95th percentile per-packet one-way delay: 121.171 ms

Loss rate: 0.00%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-04-10 07:54:06

End at: 2018-04-10 07:54:36

Below is generated by plot.py at 2018-04-10 11:04:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 99.06 Mbit/s

95th percentile per-packet one-way delay: 124.815 ms

Loss rate: 0.00%

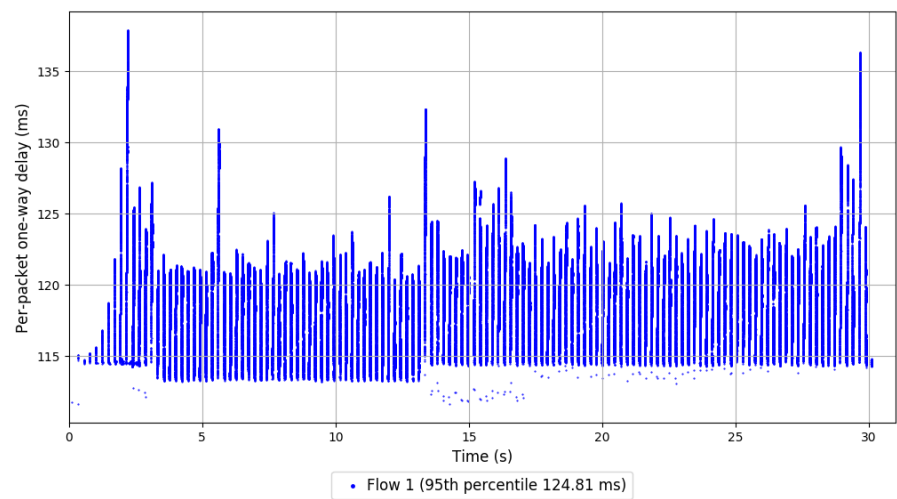
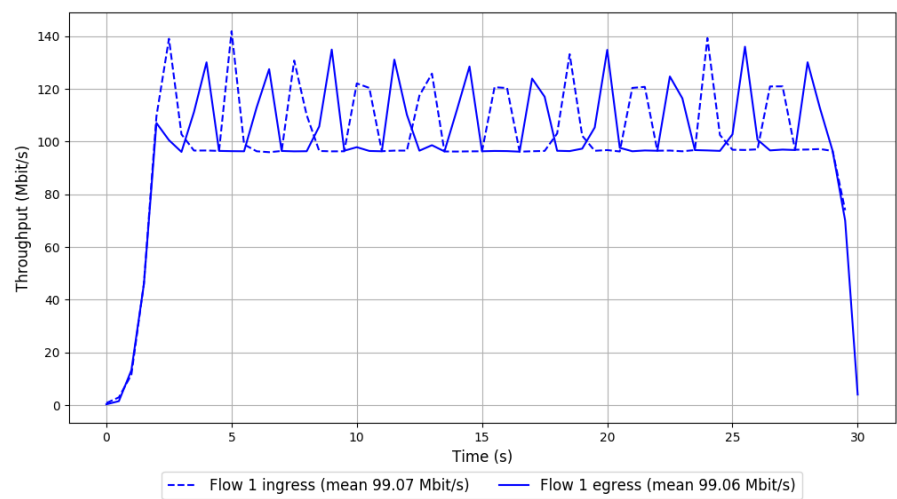
-- Flow 1:

Average throughput: 99.06 Mbit/s

95th percentile per-packet one-way delay: 124.815 ms

Loss rate: 0.00%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-04-10 08:09:00

End at: 2018-04-10 08:09:30

Below is generated by plot.py at 2018-04-10 11:04:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 99.98 Mbit/s

95th percentile per-packet one-way delay: 123.192 ms

Loss rate: 0.00%

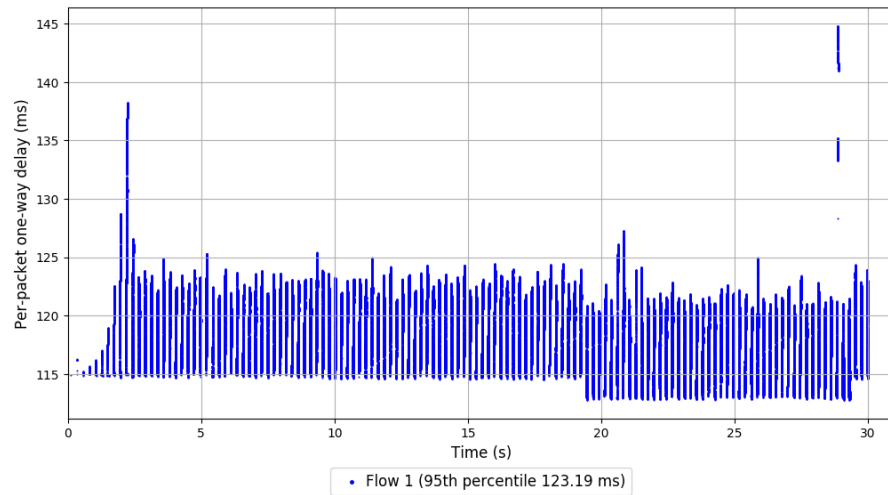
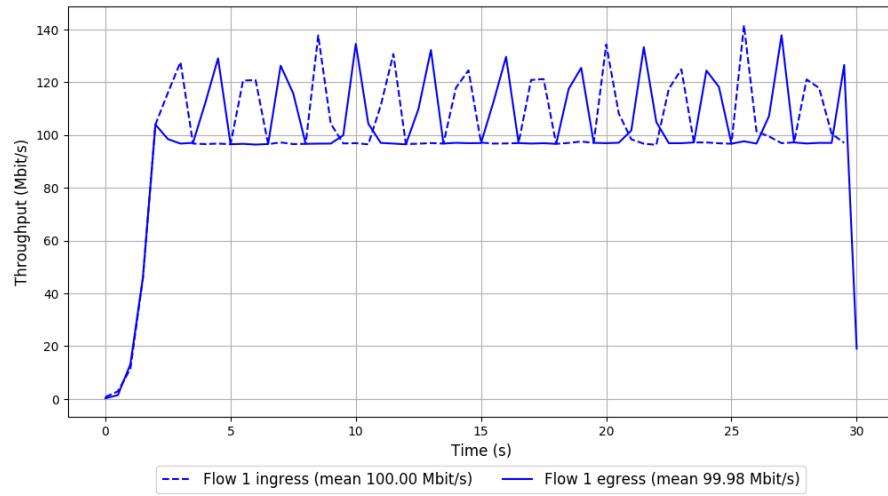
-- Flow 1:

Average throughput: 99.98 Mbit/s

95th percentile per-packet one-way delay: 123.192 ms

Loss rate: 0.00%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-04-10 08:23:35

End at: 2018-04-10 08:24:05

Below is generated by plot.py at 2018-04-10 11:04:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 99.79 Mbit/s

95th percentile per-packet one-way delay: 124.833 ms

Loss rate: 0.00%

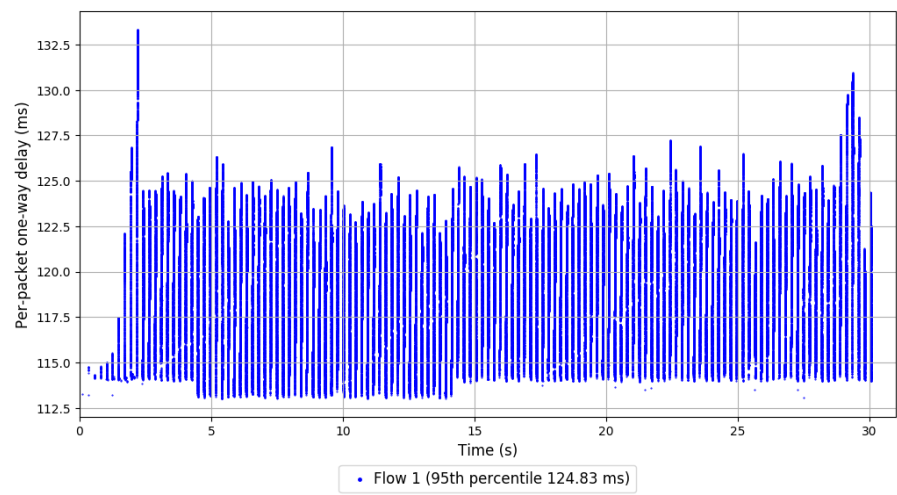
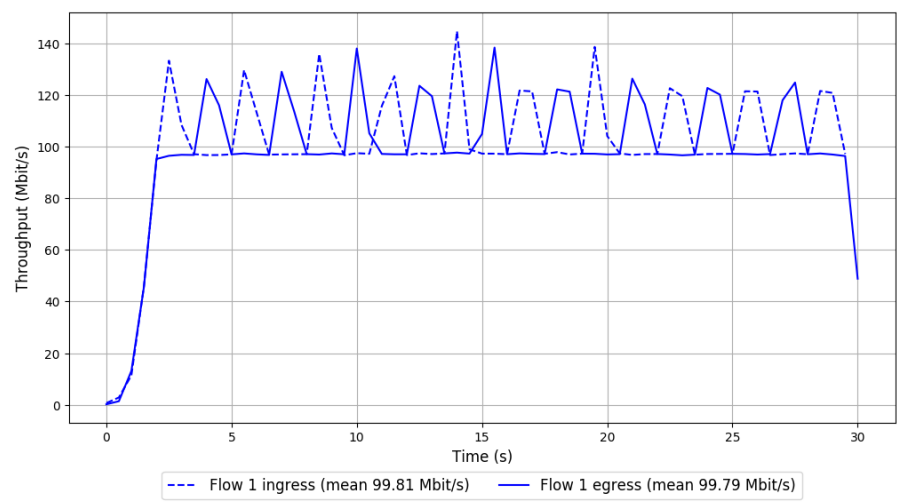
-- Flow 1:

Average throughput: 99.79 Mbit/s

95th percentile per-packet one-way delay: 124.833 ms

Loss rate: 0.00%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-04-10 08:38:35

End at: 2018-04-10 08:39:05

Below is generated by plot.py at 2018-04-10 11:04:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 101.64 Mbit/s

95th percentile per-packet one-way delay: 121.060 ms

Loss rate: 0.00%

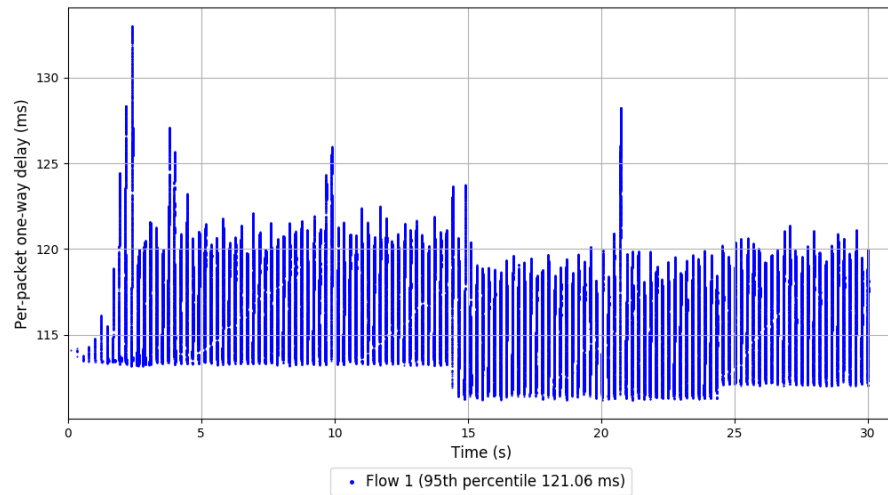
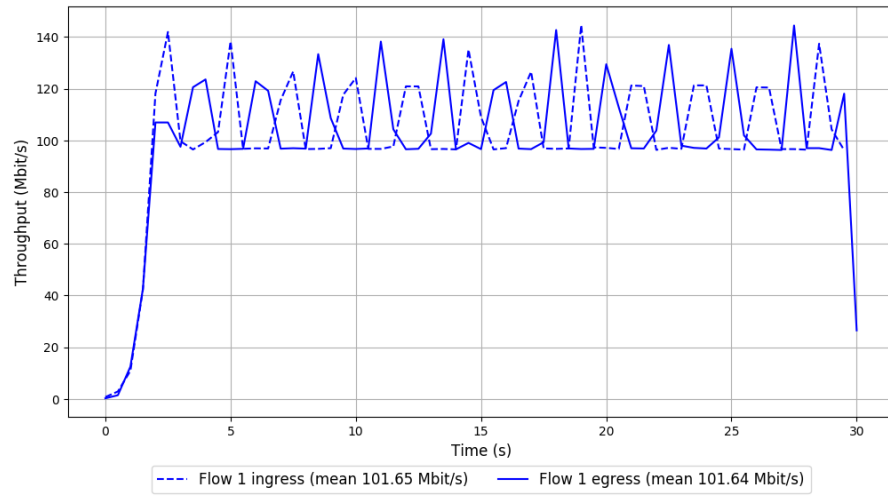
-- Flow 1:

Average throughput: 101.64 Mbit/s

95th percentile per-packet one-way delay: 121.060 ms

Loss rate: 0.00%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-04-10 08:54:15

End at: 2018-04-10 08:54:45

Below is generated by plot.py at 2018-04-10 11:04:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 101.44 Mbit/s

95th percentile per-packet one-way delay: 120.772 ms

Loss rate: 0.00%

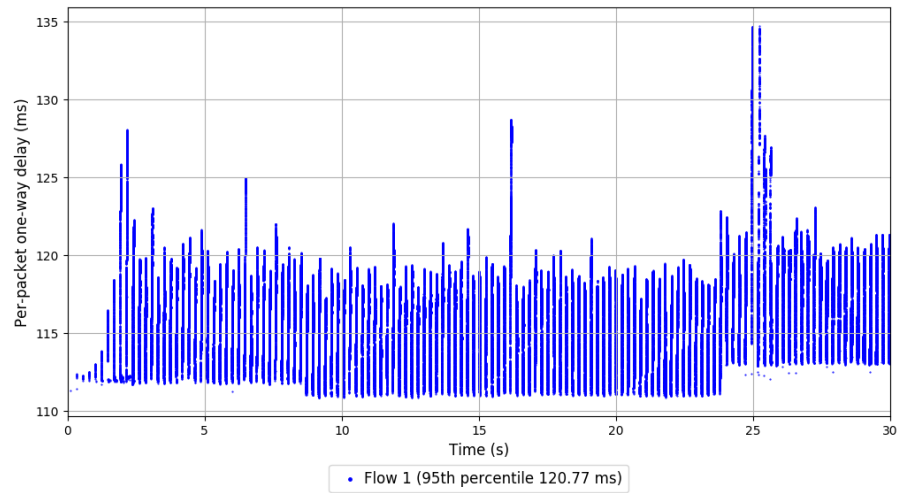
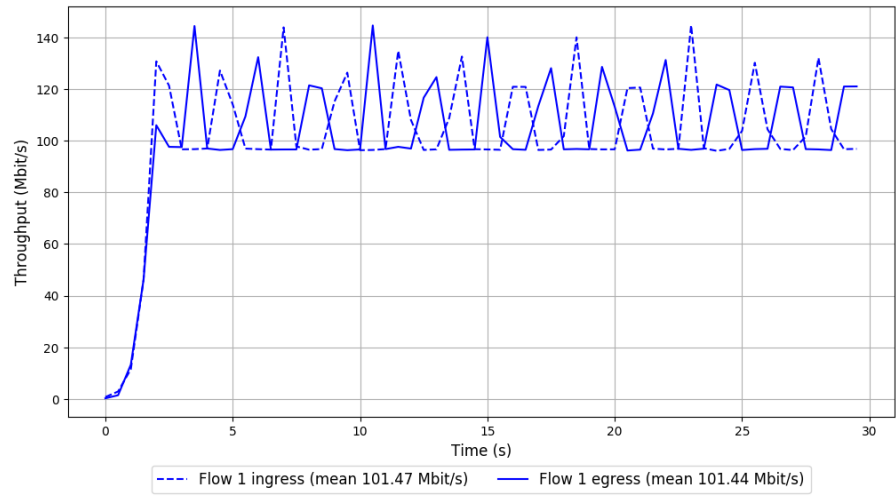
-- Flow 1:

Average throughput: 101.44 Mbit/s

95th percentile per-packet one-way delay: 120.772 ms

Loss rate: 0.00%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-04-10 09:09:15

End at: 2018-04-10 09:09:45

Below is generated by plot.py at 2018-04-10 11:04:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.86 Mbit/s

95th percentile per-packet one-way delay: 120.900 ms

Loss rate: 0.00%

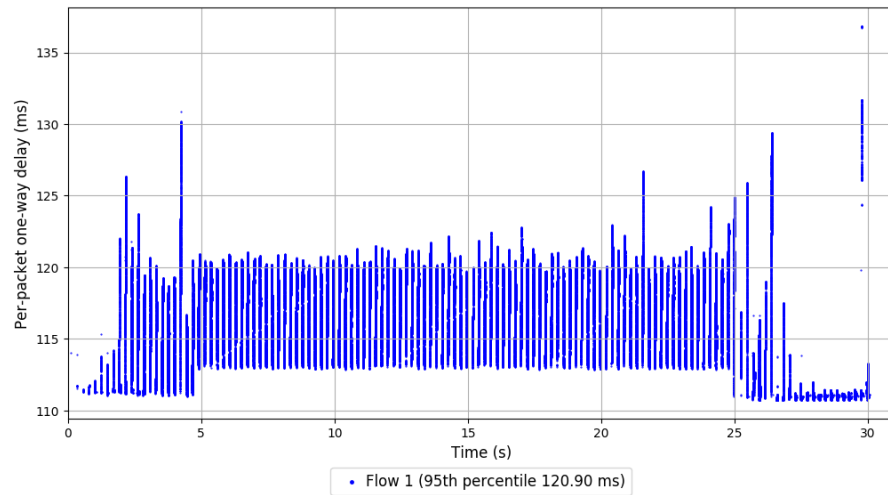
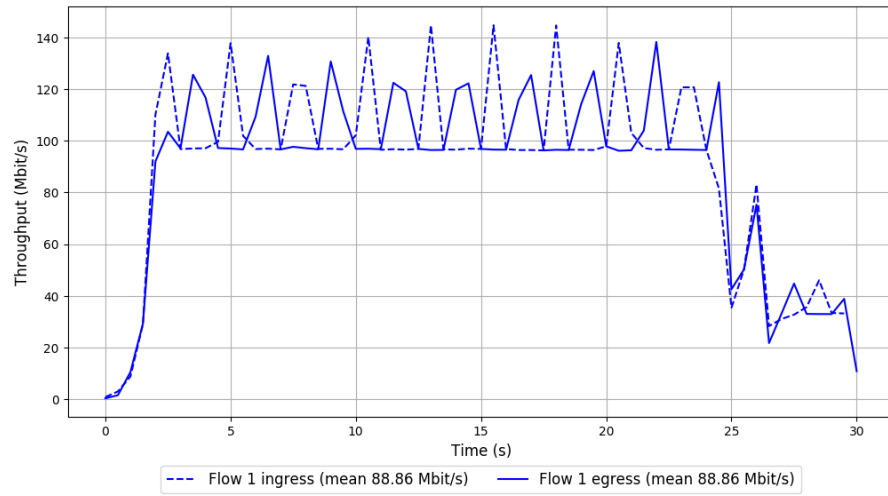
-- Flow 1:

Average throughput: 88.86 Mbit/s

95th percentile per-packet one-way delay: 120.900 ms

Loss rate: 0.00%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-04-10 09:24:29

End at: 2018-04-10 09:25:00

Below is generated by plot.py at 2018-04-10 11:04:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.62 Mbit/s

95th percentile per-packet one-way delay: 121.356 ms

Loss rate: 0.00%

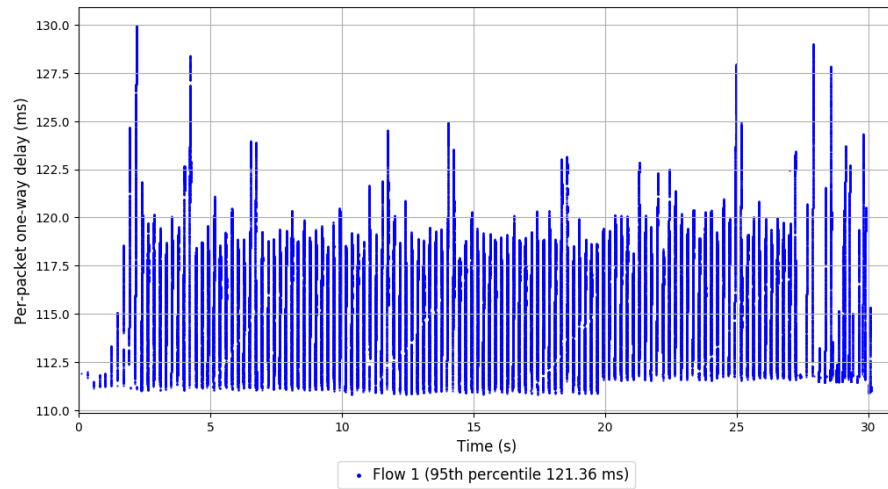
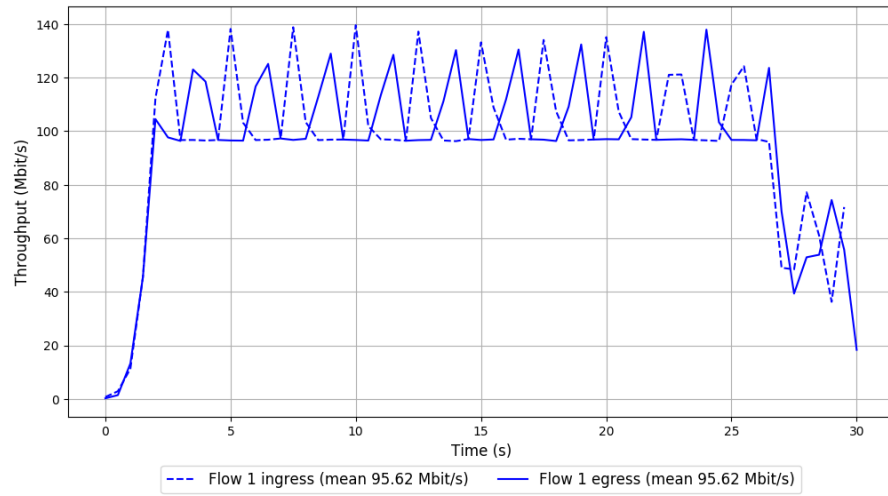
-- Flow 1:

Average throughput: 95.62 Mbit/s

95th percentile per-packet one-way delay: 121.356 ms

Loss rate: 0.00%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-04-10 07:06:22

End at: 2018-04-10 07:06:52

Below is generated by plot.py at 2018-04-10 11:04:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 165.19 Mbit/s

95th percentile per-packet one-way delay: 174.667 ms

Loss rate: 0.00%

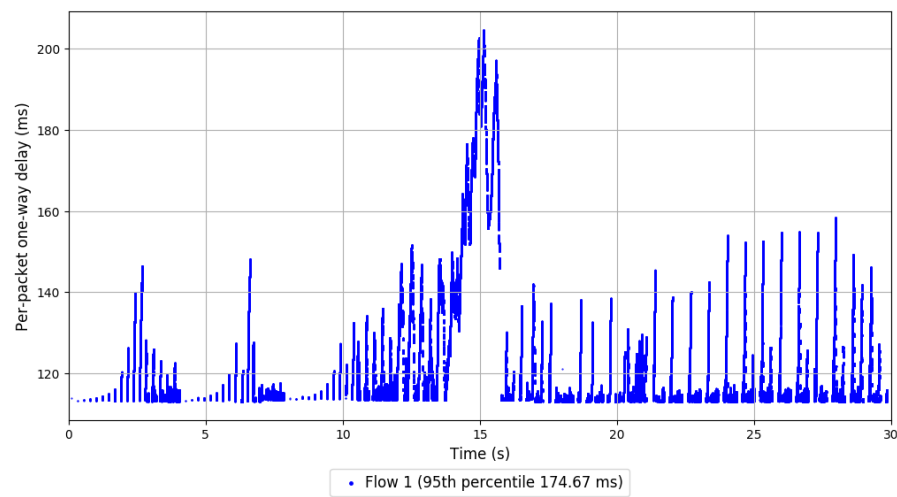
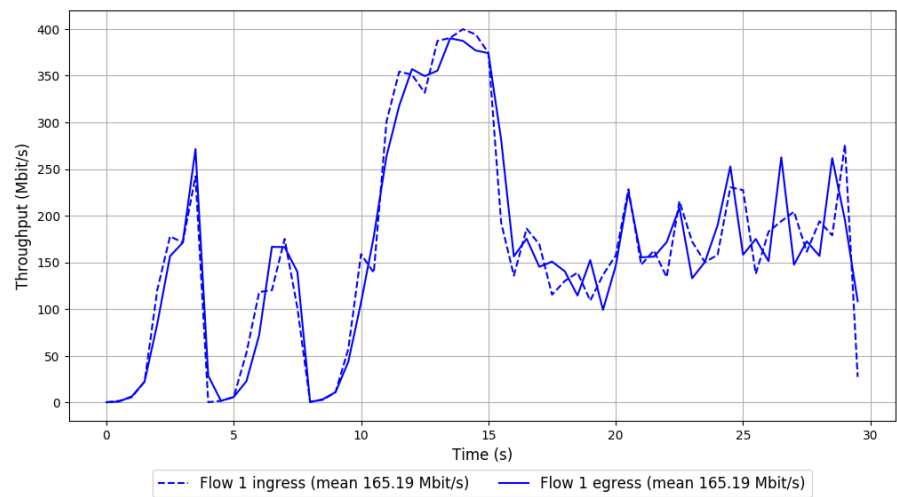
-- Flow 1:

Average throughput: 165.19 Mbit/s

95th percentile per-packet one-way delay: 174.667 ms

Loss rate: 0.00%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-04-10 07:21:54

End at: 2018-04-10 07:22:24

Below is generated by plot.py at 2018-04-10 11:05:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 184.11 Mbit/s

95th percentile per-packet one-way delay: 179.477 ms

Loss rate: 0.06%

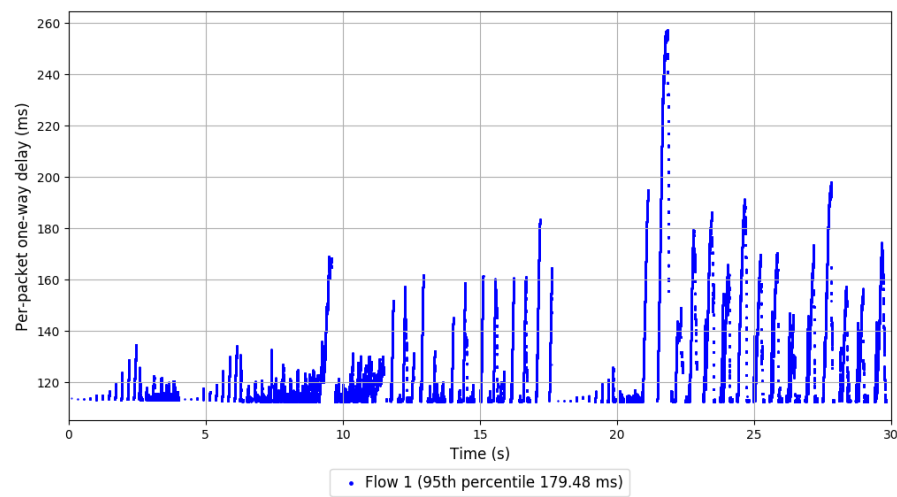
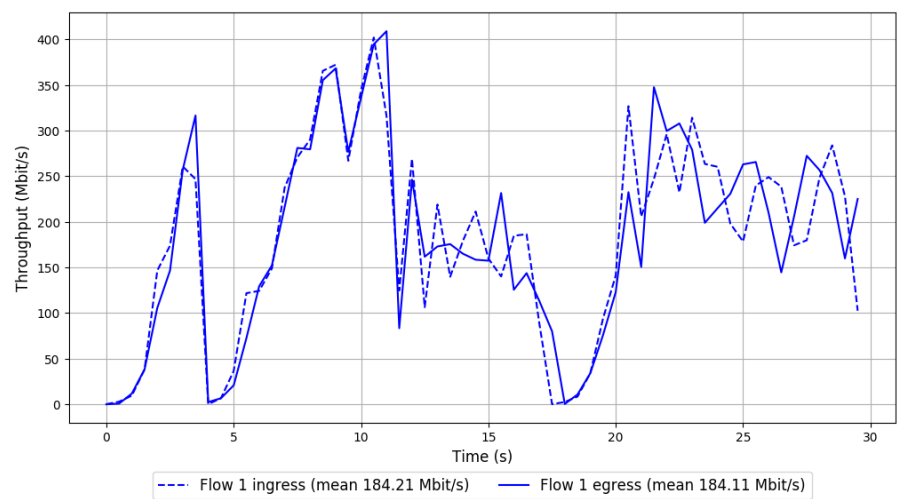
-- Flow 1:

Average throughput: 184.11 Mbit/s

95th percentile per-packet one-way delay: 179.477 ms

Loss rate: 0.06%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-04-10 07:37:00

End at: 2018-04-10 07:37:30

Below is generated by plot.py at 2018-04-10 11:05:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 187.82 Mbit/s

95th percentile per-packet one-way delay: 256.471 ms

Loss rate: 1.40%

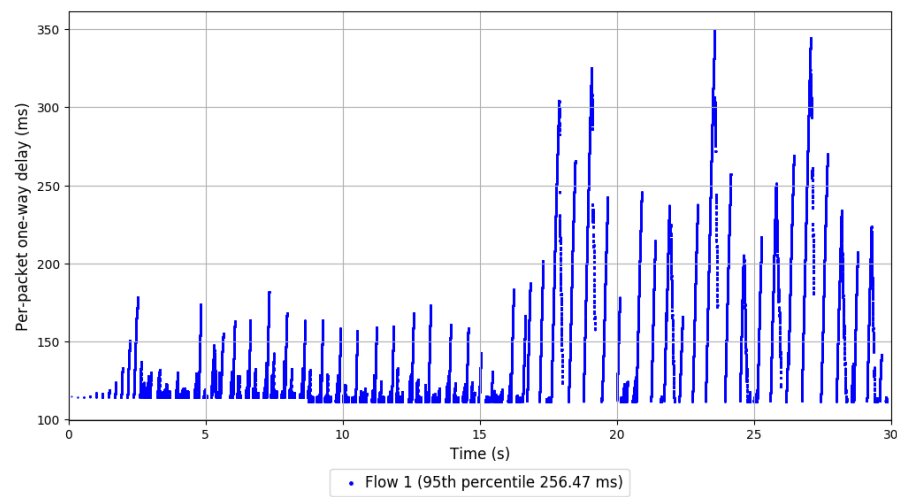
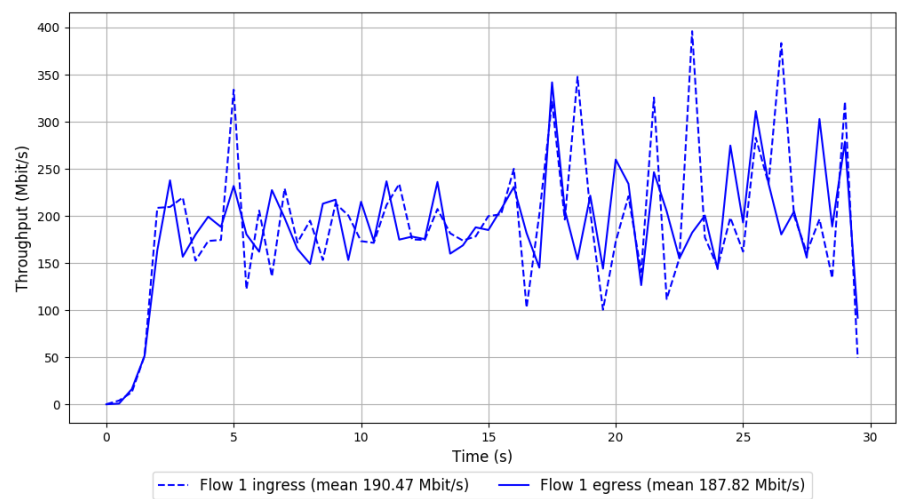
-- Flow 1:

Average throughput: 187.82 Mbit/s

95th percentile per-packet one-way delay: 256.471 ms

Loss rate: 1.40%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-04-10 07:52:05

End at: 2018-04-10 07:52:35

Below is generated by plot.py at 2018-04-10 11:05:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 178.04 Mbit/s

95th percentile per-packet one-way delay: 158.775 ms

Loss rate: 0.24%

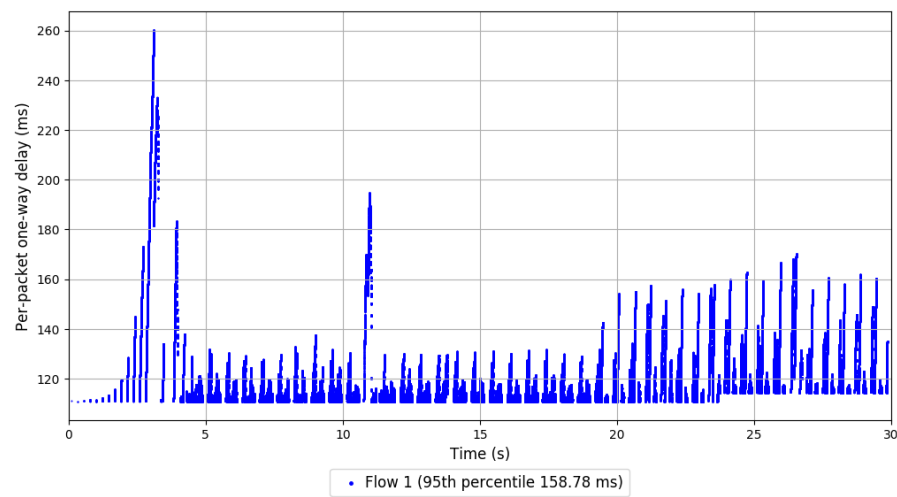
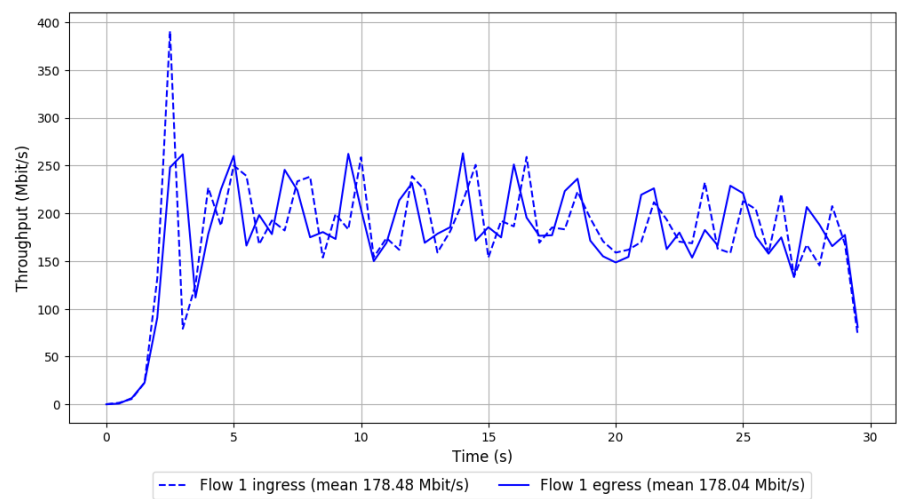
-- Flow 1:

Average throughput: 178.04 Mbit/s

95th percentile per-packet one-way delay: 158.775 ms

Loss rate: 0.24%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-04-10 08:06:58

End at: 2018-04-10 08:07:28

Below is generated by plot.py at 2018-04-10 11:05:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 176.83 Mbit/s

95th percentile per-packet one-way delay: 169.504 ms

Loss rate: 0.00%

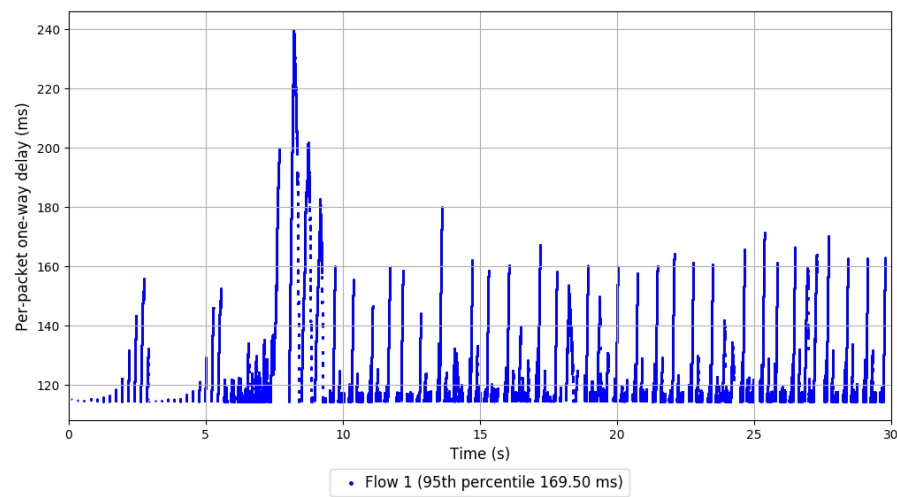
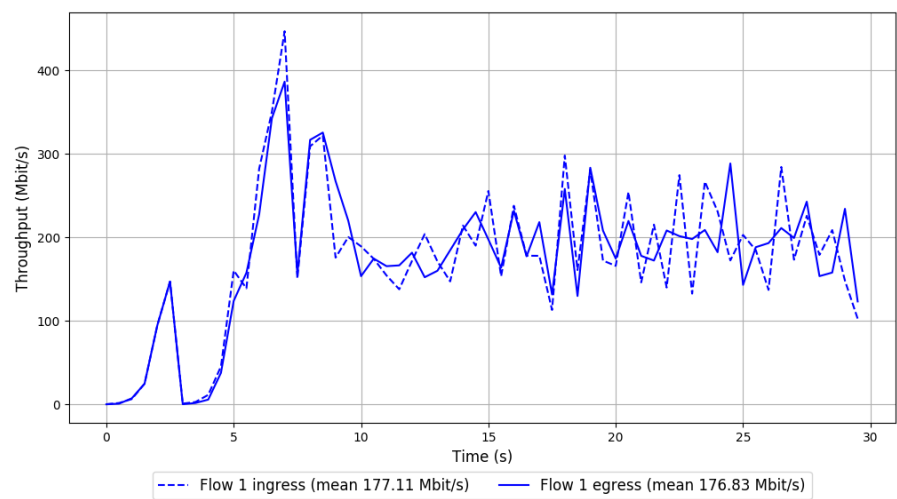
-- Flow 1:

Average throughput: 176.83 Mbit/s

95th percentile per-packet one-way delay: 169.504 ms

Loss rate: 0.00%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-04-10 08:22:01

End at: 2018-04-10 08:22:31

Below is generated by plot.py at 2018-04-10 11:05:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 125.81 Mbit/s

95th percentile per-packet one-way delay: 211.705 ms

Loss rate: 2.68%

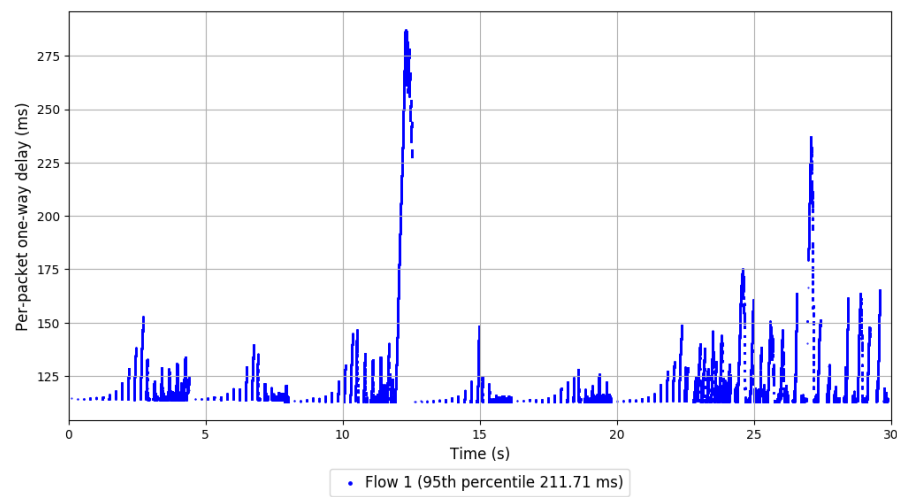
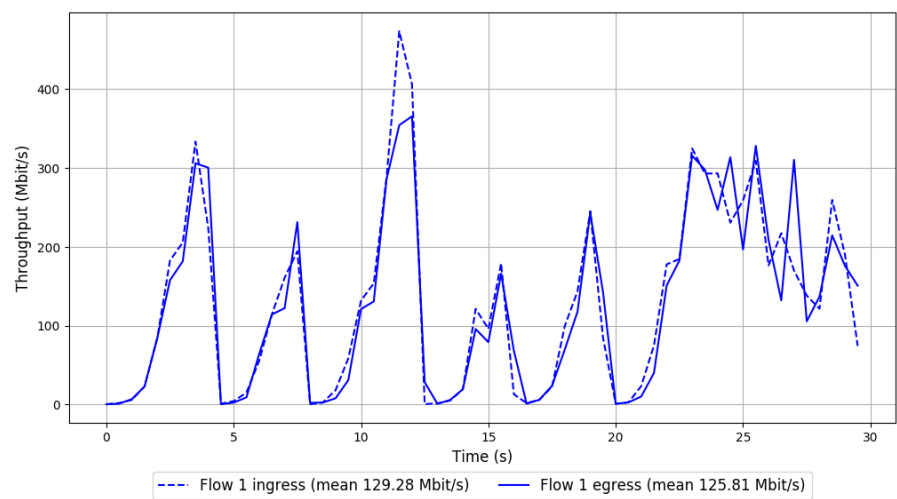
-- Flow 1:

Average throughput: 125.81 Mbit/s

95th percentile per-packet one-way delay: 211.705 ms

Loss rate: 2.68%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-04-10 08:36:35

End at: 2018-04-10 08:37:05

Below is generated by plot.py at 2018-04-10 11:06:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 178.33 Mbit/s

95th percentile per-packet one-way delay: 167.548 ms

Loss rate: 0.36%

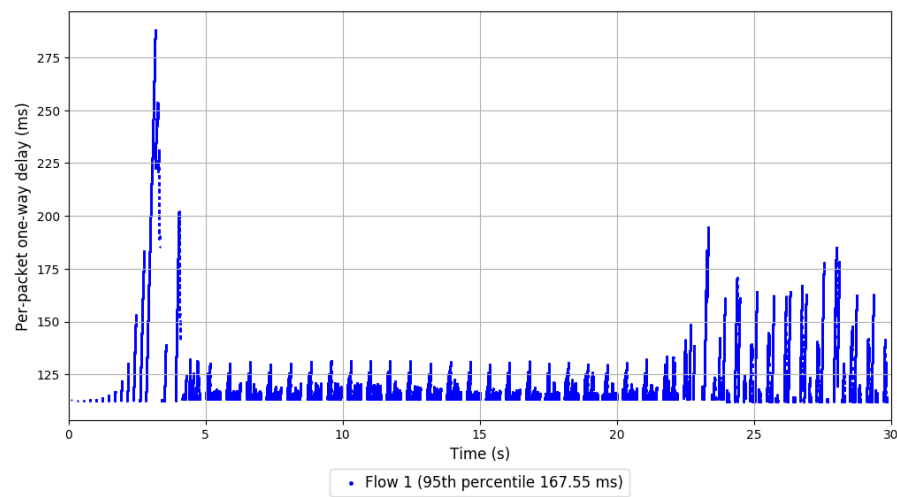
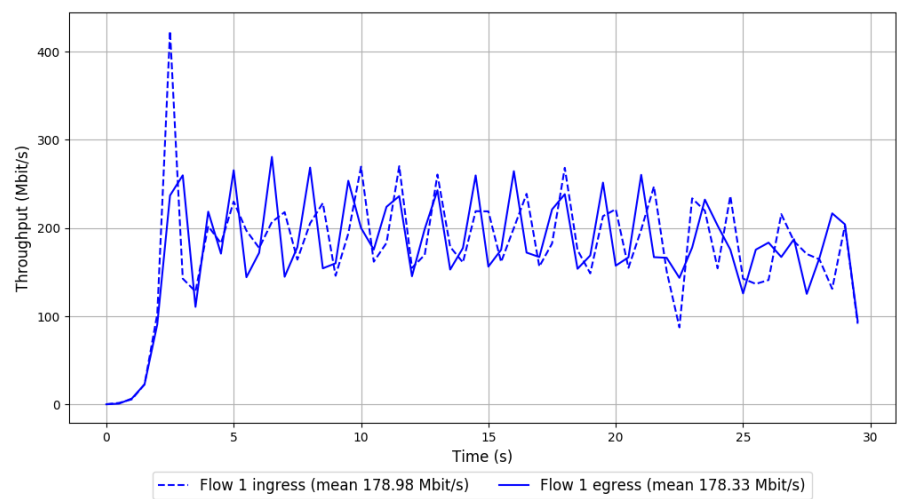
-- Flow 1:

Average throughput: 178.33 Mbit/s

95th percentile per-packet one-way delay: 167.548 ms

Loss rate: 0.36%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-04-10 08:52:14

End at: 2018-04-10 08:52:44

Below is generated by plot.py at 2018-04-10 11:07:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 191.93 Mbit/s

95th percentile per-packet one-way delay: 139.285 ms

Loss rate: 0.00%

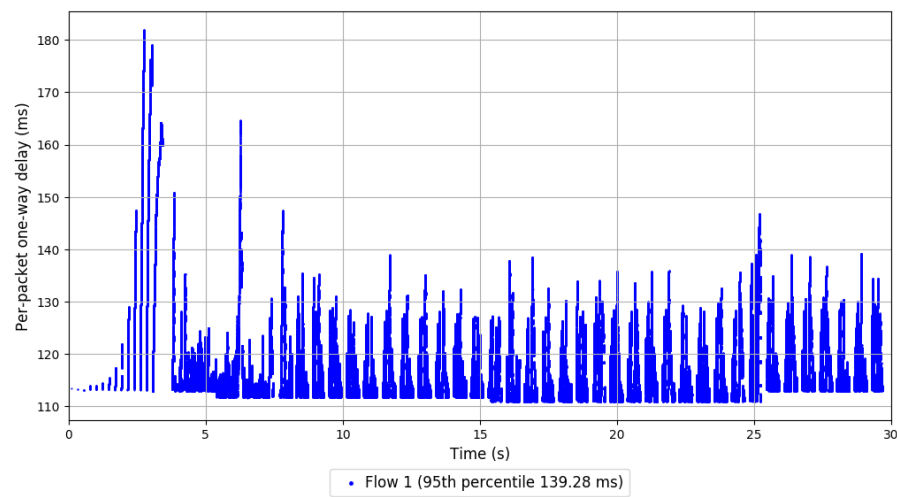
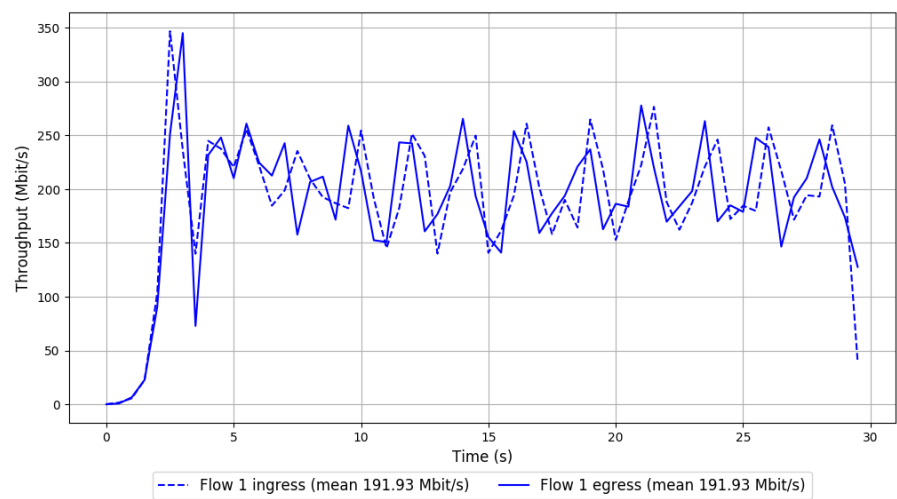
-- Flow 1:

Average throughput: 191.93 Mbit/s

95th percentile per-packet one-way delay: 139.285 ms

Loss rate: 0.00%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-04-10 09:07:14

End at: 2018-04-10 09:07:44

Below is generated by plot.py at 2018-04-10 11:07:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 182.15 Mbit/s

95th percentile per-packet one-way delay: 236.227 ms

Loss rate: 0.83%

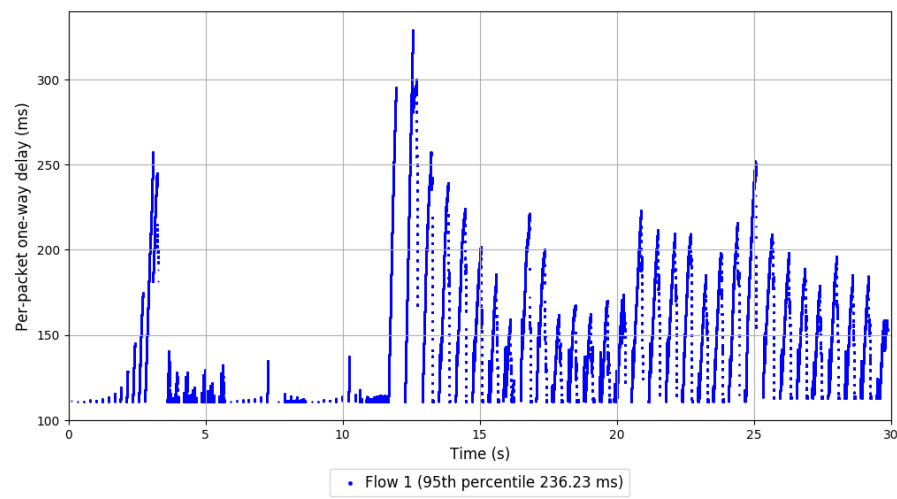
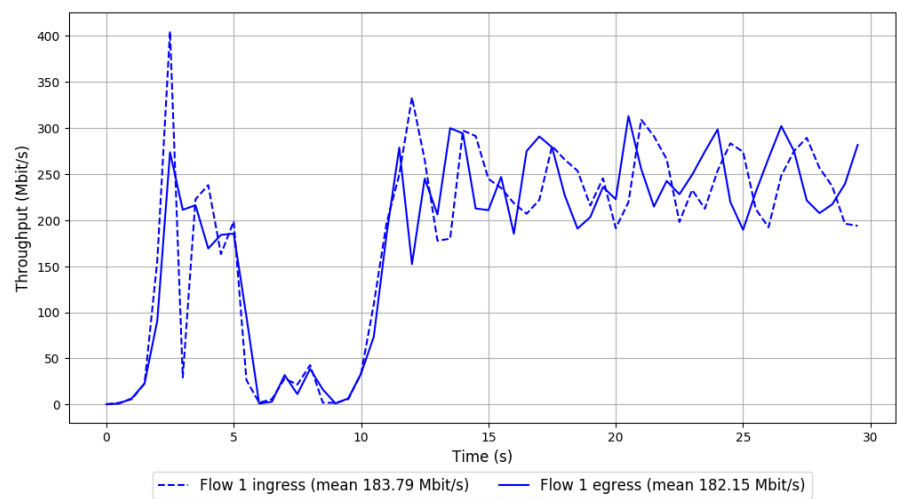
-- Flow 1:

Average throughput: 182.15 Mbit/s

95th percentile per-packet one-way delay: 236.227 ms

Loss rate: 0.83%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-04-10 09:22:28

End at: 2018-04-10 09:22:59

Below is generated by plot.py at 2018-04-10 11:08:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 175.13 Mbit/s

95th percentile per-packet one-way delay: 186.425 ms

Loss rate: 2.14%

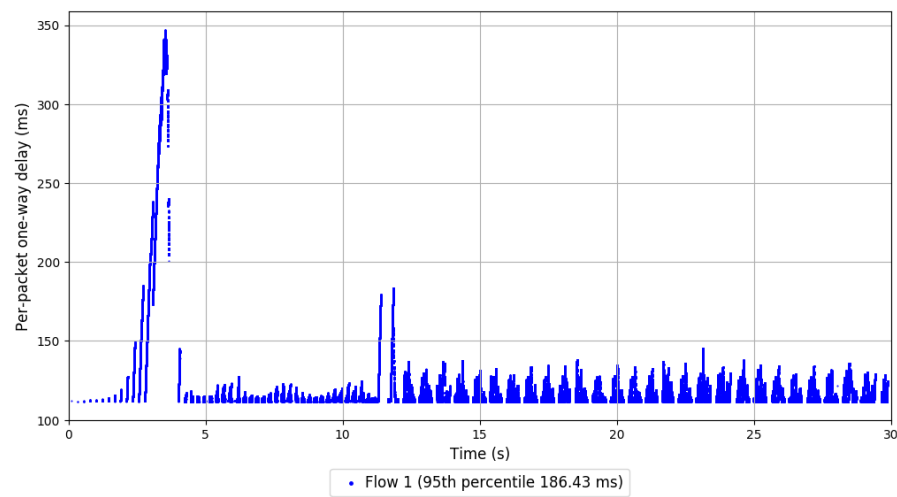
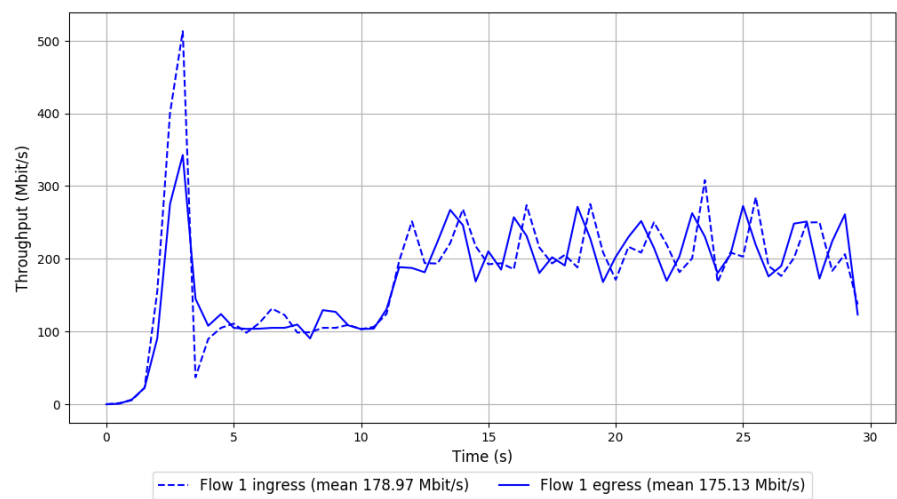
-- Flow 1:

Average throughput: 175.13 Mbit/s

95th percentile per-packet one-way delay: 186.425 ms

Loss rate: 2.14%

Run 10: Report of Verus — Data Link

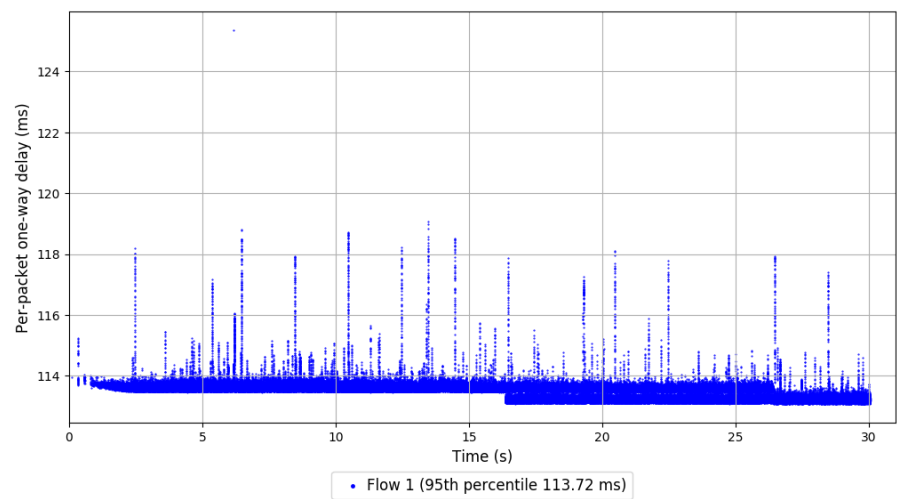
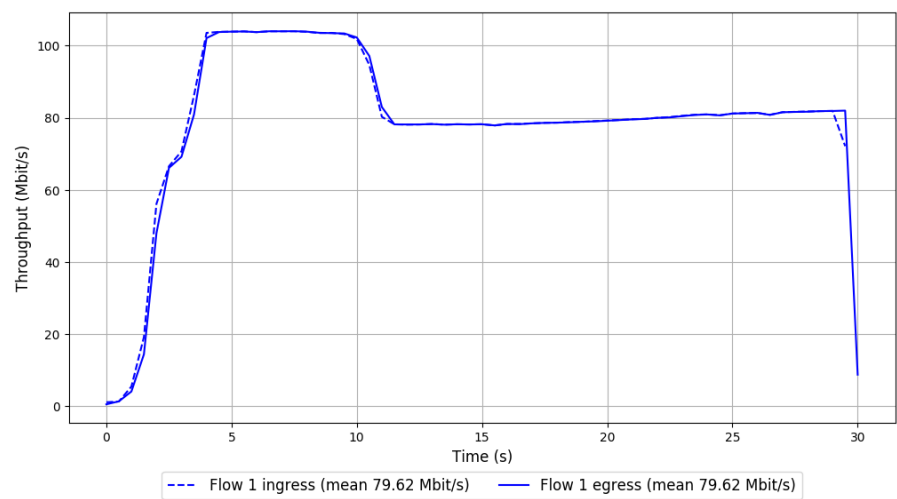


```
Run 1: Statistics of Copa

Start at: 2018-04-10 07:05:33
End at: 2018-04-10 07:06:03

# Below is generated by plot.py at 2018-04-10 11:08:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 79.62 Mbit/s
95th percentile per-packet one-way delay: 113.717 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 79.62 Mbit/s
95th percentile per-packet one-way delay: 113.717 ms
Loss rate: 0.00%
```

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-04-10 07:21:04

End at: 2018-04-10 07:21:34

Below is generated by plot.py at 2018-04-10 11:08:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.59 Mbit/s

95th percentile per-packet one-way delay: 114.522 ms

Loss rate: 0.00%

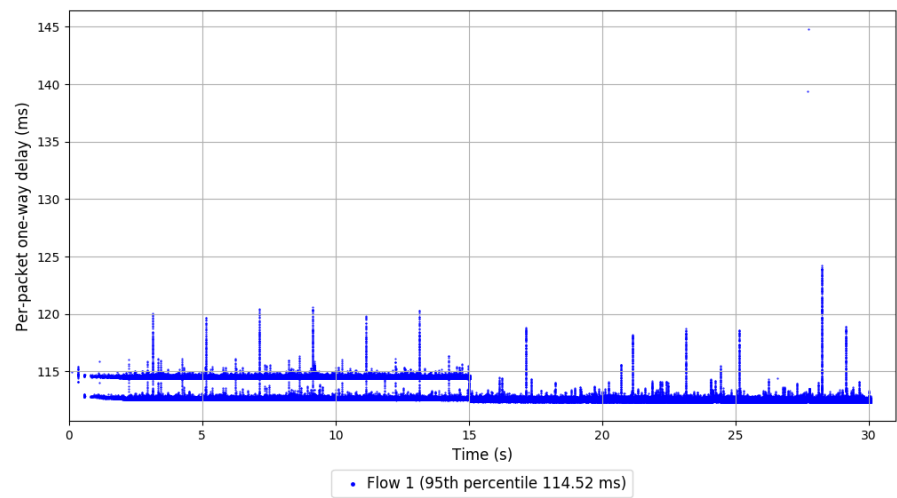
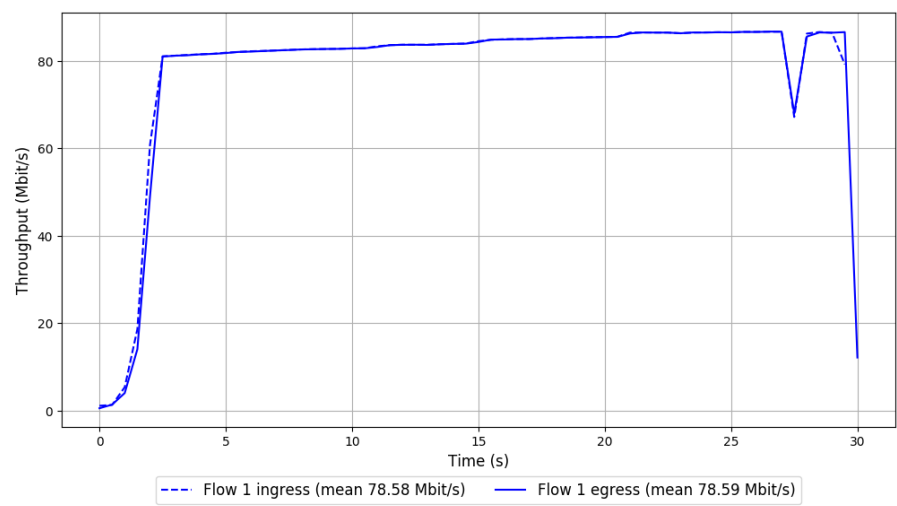
-- Flow 1:

Average throughput: 78.59 Mbit/s

95th percentile per-packet one-way delay: 114.522 ms

Loss rate: 0.00%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-04-10 07:36:11

End at: 2018-04-10 07:36:41

Below is generated by plot.py at 2018-04-10 11:08:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.96 Mbit/s

95th percentile per-packet one-way delay: 114.093 ms

Loss rate: 0.00%

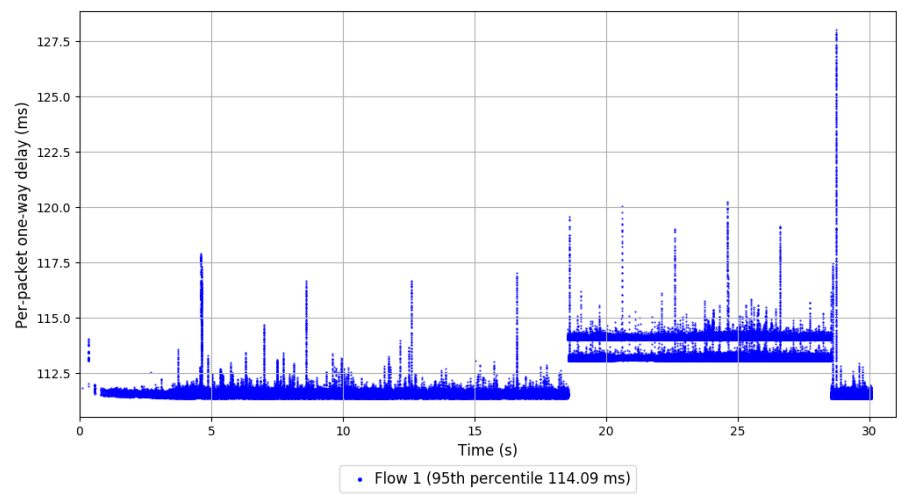
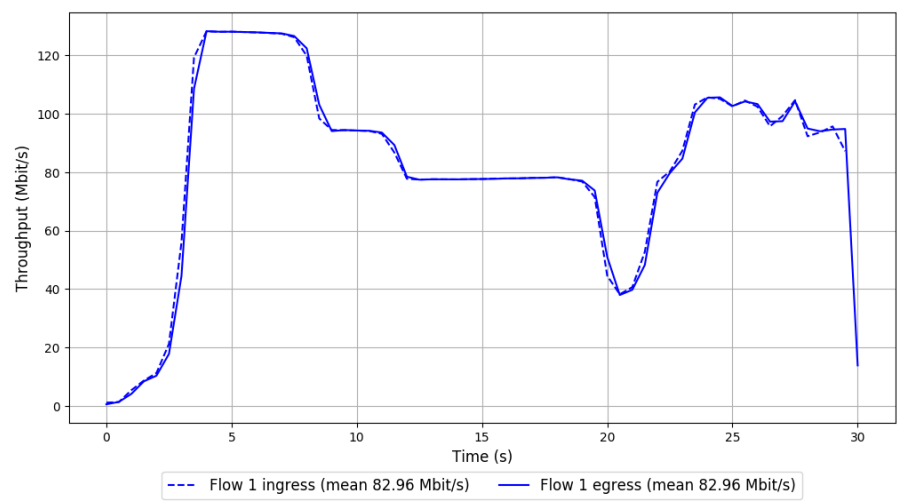
-- Flow 1:

Average throughput: 82.96 Mbit/s

95th percentile per-packet one-way delay: 114.093 ms

Loss rate: 0.00%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-04-10 07:51:19

End at: 2018-04-10 07:51:49

Below is generated by plot.py at 2018-04-10 11:08:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 56.47 Mbit/s

95th percentile per-packet one-way delay: 114.292 ms

Loss rate: 0.00%

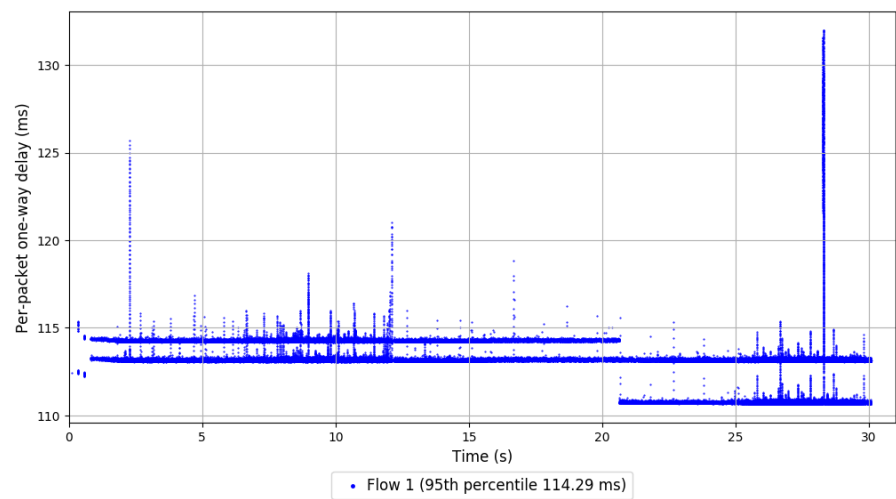
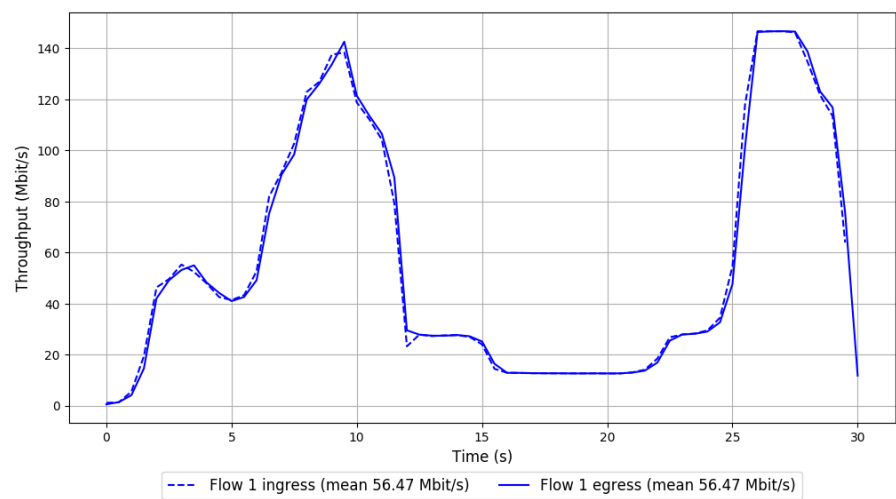
-- Flow 1:

Average throughput: 56.47 Mbit/s

95th percentile per-packet one-way delay: 114.292 ms

Loss rate: 0.00%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-04-10 08:06:11

End at: 2018-04-10 08:06:41

Below is generated by plot.py at 2018-04-10 11:08:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 61.10 Mbit/s

95th percentile per-packet one-way delay: 114.576 ms

Loss rate: 0.00%

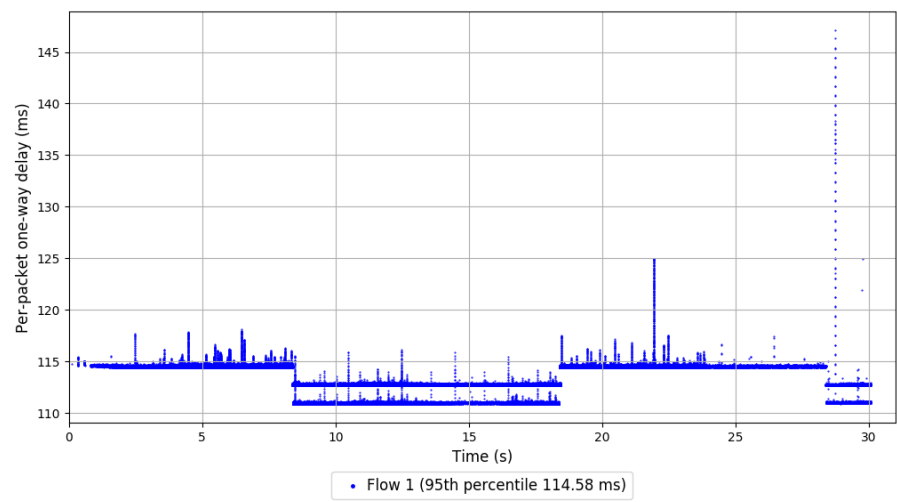
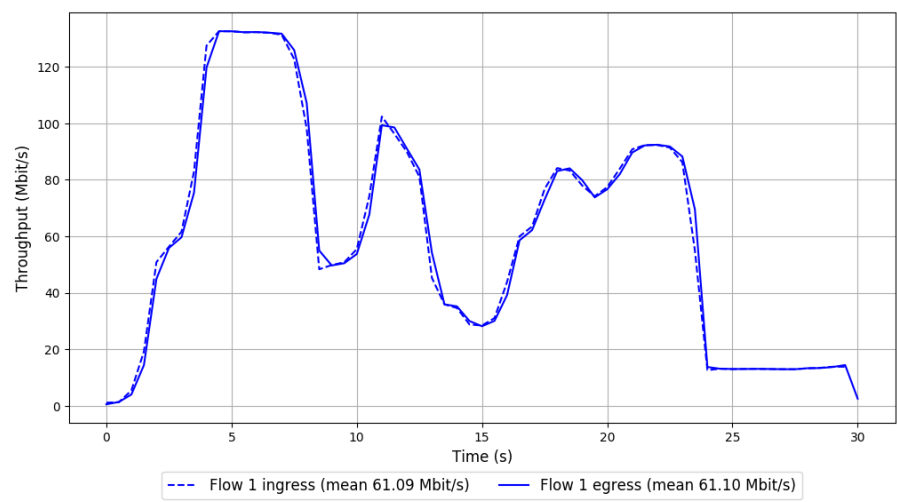
-- Flow 1:

Average throughput: 61.10 Mbit/s

95th percentile per-packet one-way delay: 114.576 ms

Loss rate: 0.00%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-04-10 08:21:16

End at: 2018-04-10 08:21:46

Below is generated by plot.py at 2018-04-10 11:08:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 43.97 Mbit/s

95th percentile per-packet one-way delay: 114.608 ms

Loss rate: 0.00%

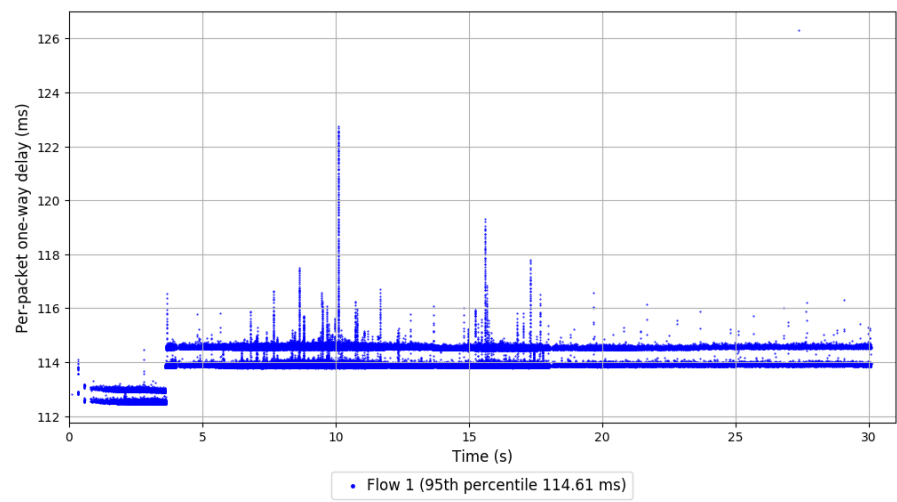
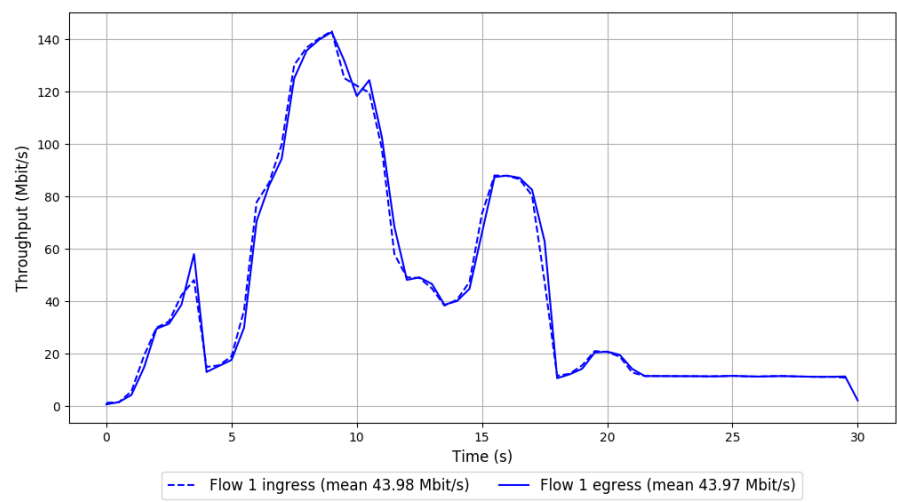
-- Flow 1:

Average throughput: 43.97 Mbit/s

95th percentile per-packet one-way delay: 114.608 ms

Loss rate: 0.00%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-04-10 08:35:47

End at: 2018-04-10 08:36:17

Below is generated by plot.py at 2018-04-10 11:09:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.03 Mbit/s

95th percentile per-packet one-way delay: 113.339 ms

Loss rate: 0.00%

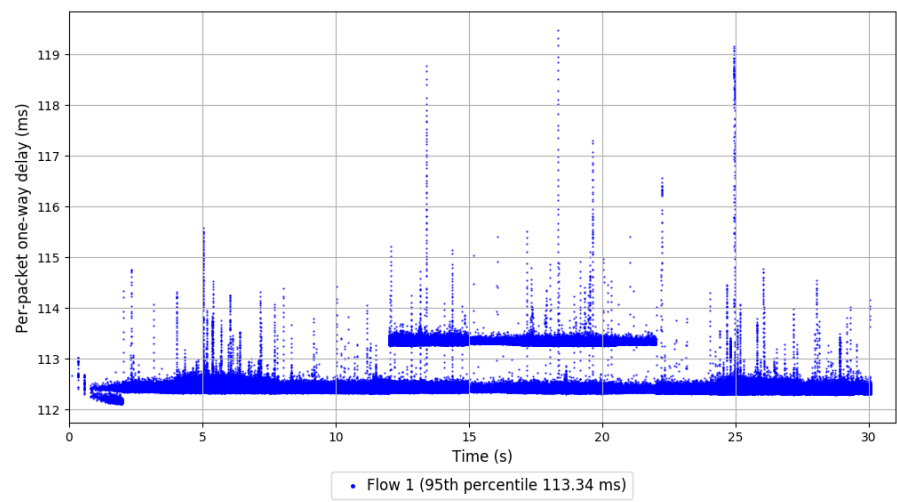
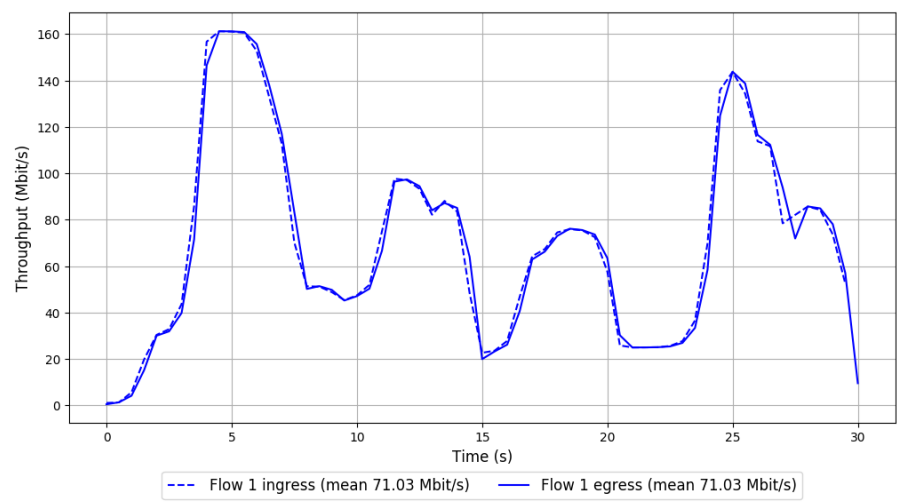
-- Flow 1:

Average throughput: 71.03 Mbit/s

95th percentile per-packet one-way delay: 113.339 ms

Loss rate: 0.00%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-04-10 08:51:25

End at: 2018-04-10 08:51:55

Below is generated by plot.py at 2018-04-10 11:09:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.61 Mbit/s

95th percentile per-packet one-way delay: 112.971 ms

Loss rate: 0.00%

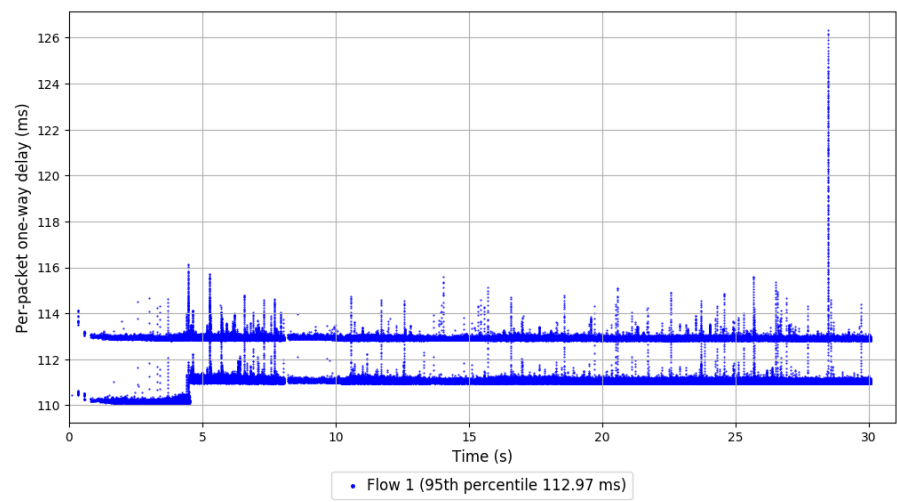
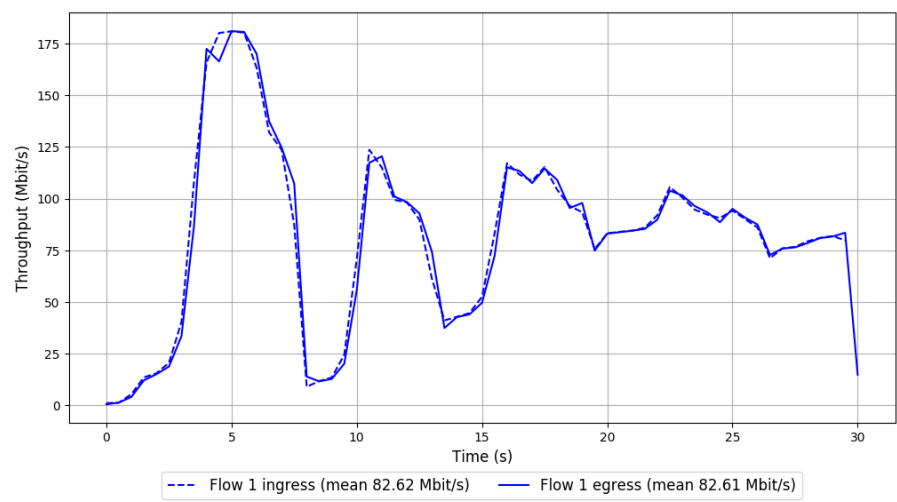
-- Flow 1:

Average throughput: 82.61 Mbit/s

95th percentile per-packet one-way delay: 112.971 ms

Loss rate: 0.00%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-04-10 09:06:25

End at: 2018-04-10 09:06:55

Below is generated by plot.py at 2018-04-10 11:10:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.25 Mbit/s

95th percentile per-packet one-way delay: 113.031 ms

Loss rate: 0.00%

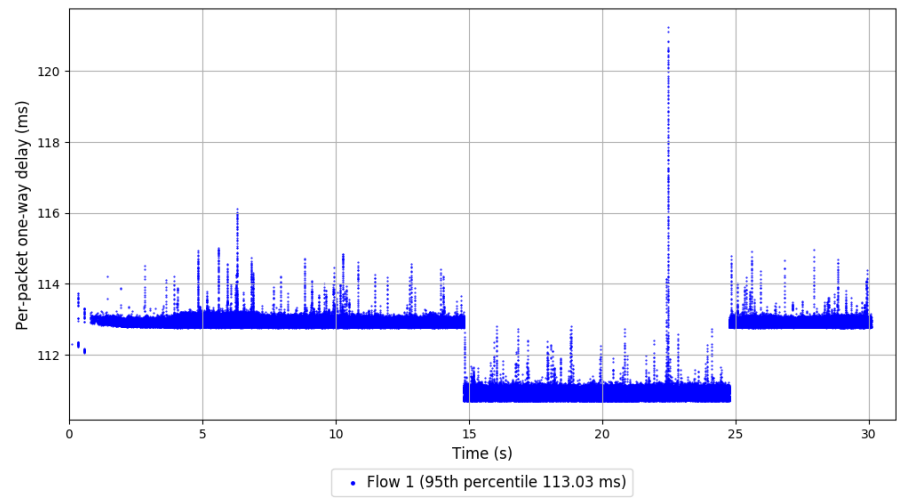
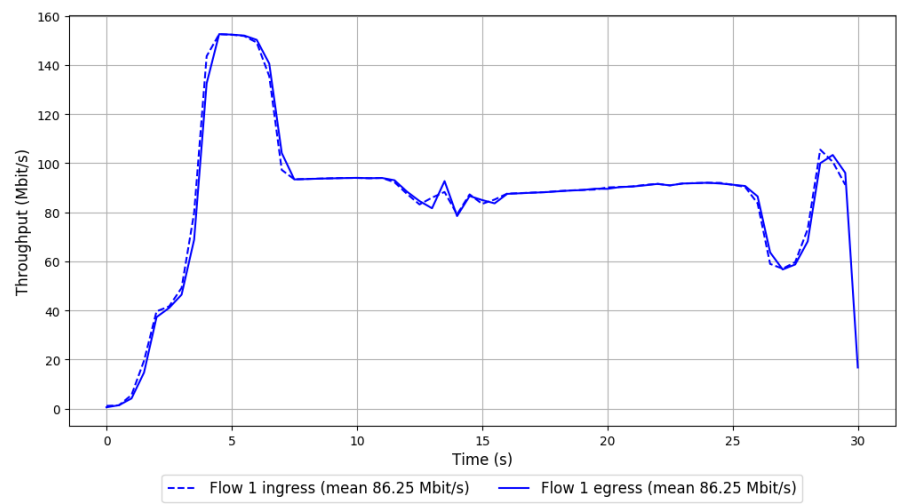
-- Flow 1:

Average throughput: 86.25 Mbit/s

95th percentile per-packet one-way delay: 113.031 ms

Loss rate: 0.00%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-04-10 09:21:41

End at: 2018-04-10 09:22:11

Below is generated by plot.py at 2018-04-10 11:10:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.33 Mbit/s

95th percentile per-packet one-way delay: 113.774 ms

Loss rate: 0.00%

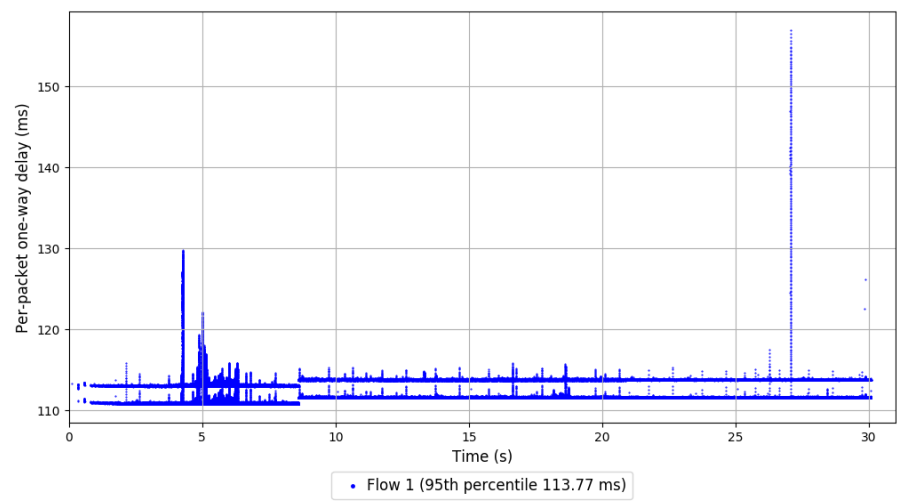
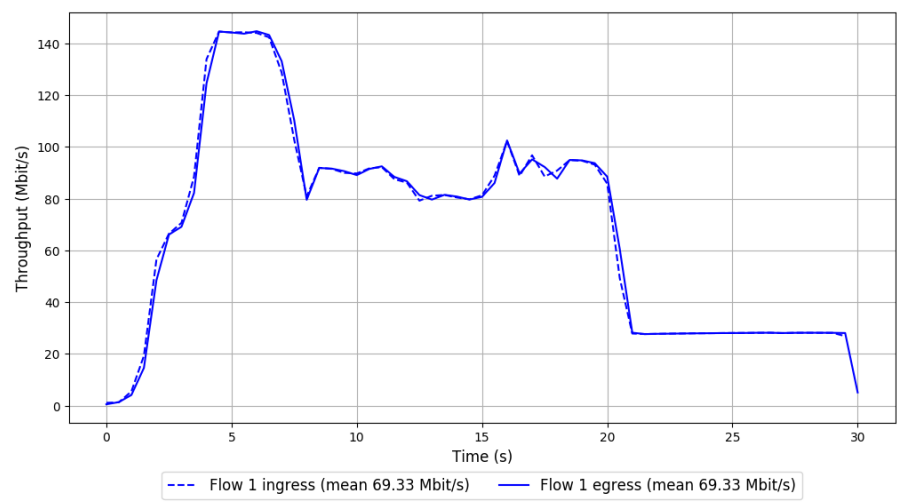
-- Flow 1:

Average throughput: 69.33 Mbit/s

95th percentile per-packet one-way delay: 113.774 ms

Loss rate: 0.00%

Run 10: Report of Copa — Data Link

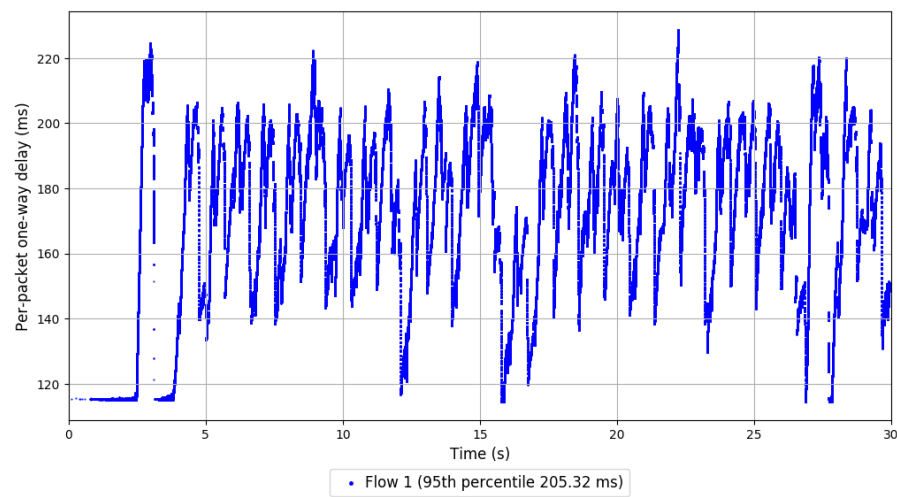
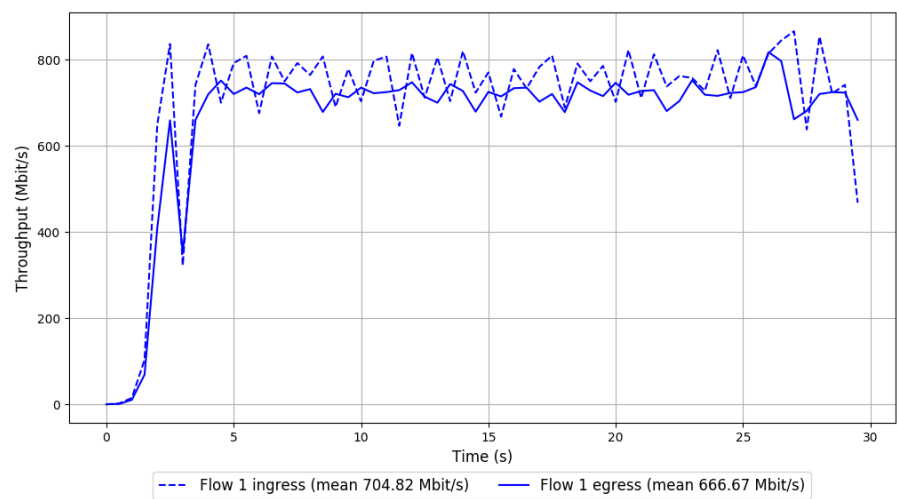


```
Run 1: Statistics of FillP

Start at: 2018-04-10 07:07:15
End at: 2018-04-10 07:07:45

# Below is generated by plot.py at 2018-04-10 11:19:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 666.67 Mbit/s
95th percentile per-packet one-way delay: 205.321 ms
Loss rate: 5.42%
-- Flow 1:
Average throughput: 666.67 Mbit/s
95th percentile per-packet one-way delay: 205.321 ms
Loss rate: 5.42%
```

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-04-10 07:22:48

End at: 2018-04-10 07:23:18

Below is generated by plot.py at 2018-04-10 11:19:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 666.71 Mbit/s

95th percentile per-packet one-way delay: 192.919 ms

Loss rate: 1.36%

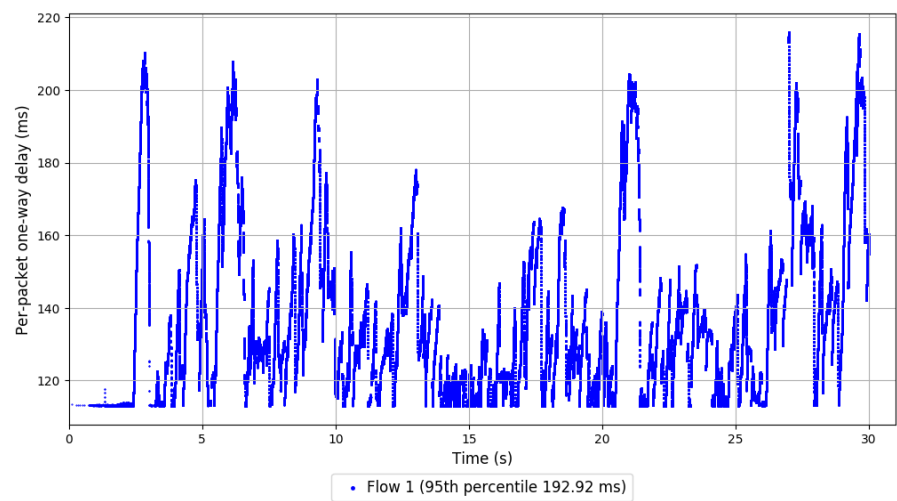
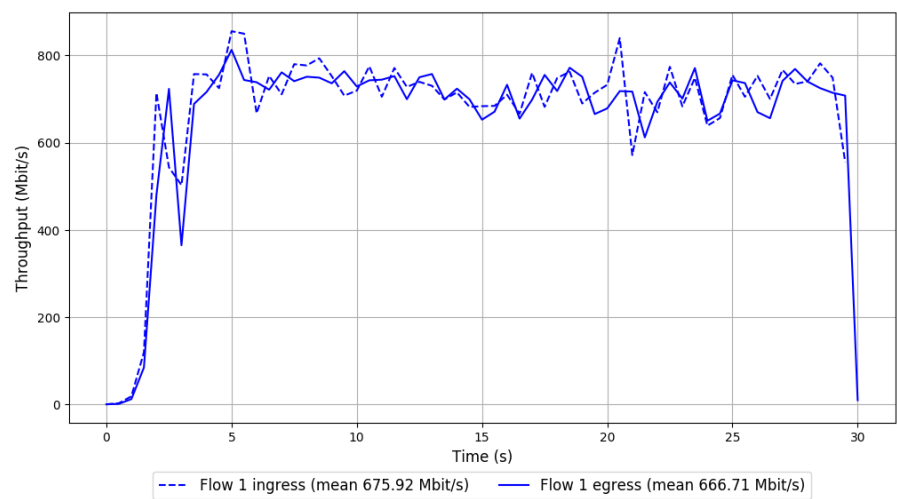
-- Flow 1:

Average throughput: 666.71 Mbit/s

95th percentile per-packet one-way delay: 192.919 ms

Loss rate: 1.36%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-04-10 07:37:55

End at: 2018-04-10 07:38:25

Below is generated by plot.py at 2018-04-10 11:20:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 688.19 Mbit/s

95th percentile per-packet one-way delay: 205.611 ms

Loss rate: 4.74%

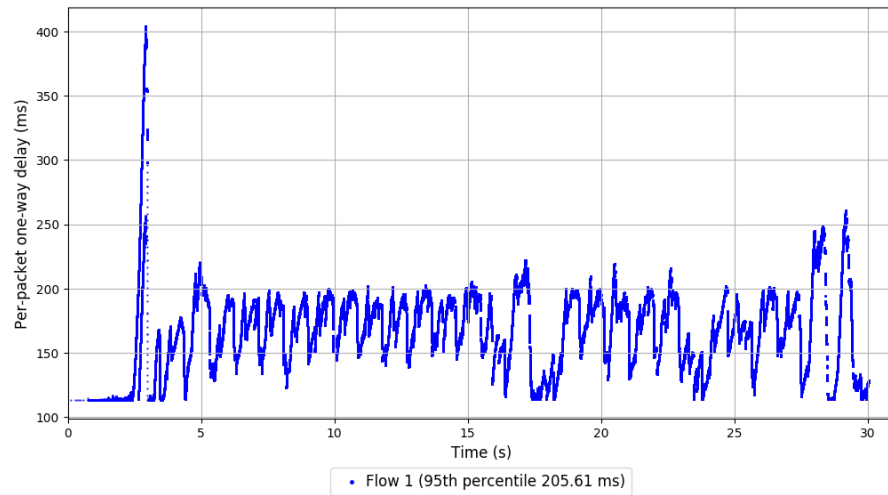
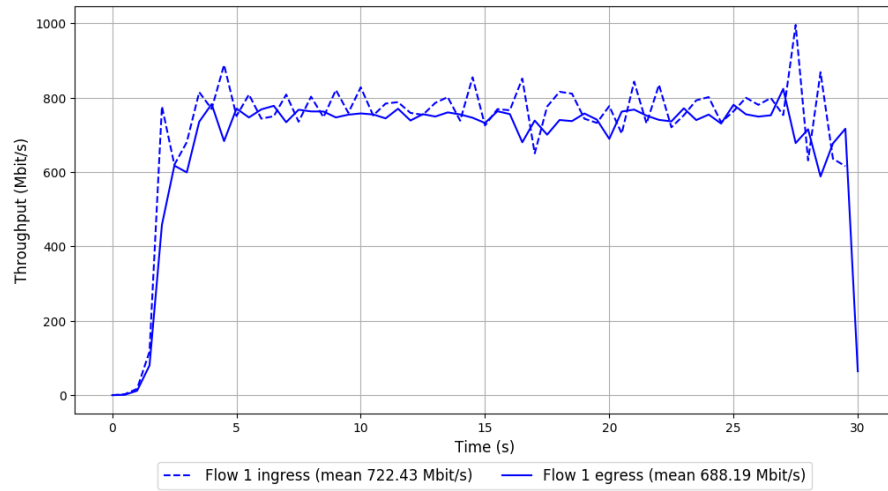
-- Flow 1:

Average throughput: 688.19 Mbit/s

95th percentile per-packet one-way delay: 205.611 ms

Loss rate: 4.74%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-04-10 07:52:59

End at: 2018-04-10 07:53:29

Below is generated by plot.py at 2018-04-10 11:20:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 697.63 Mbit/s

95th percentile per-packet one-way delay: 201.844 ms

Loss rate: 5.64%

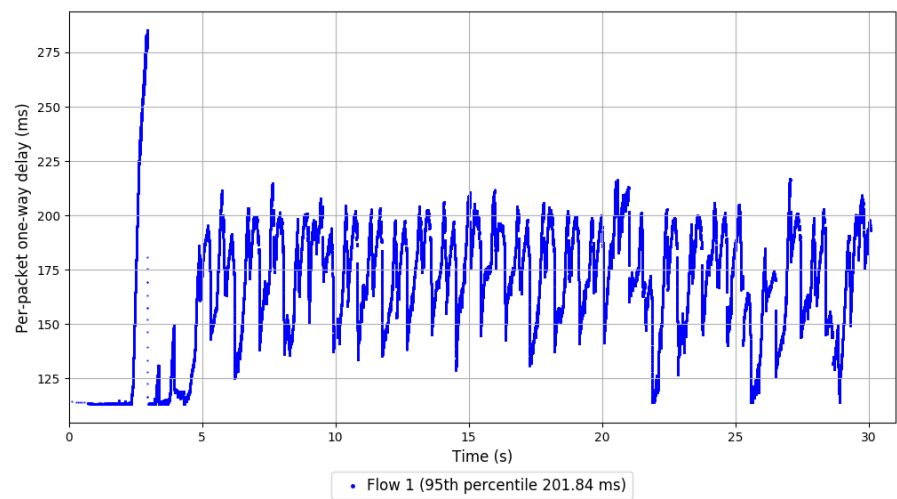
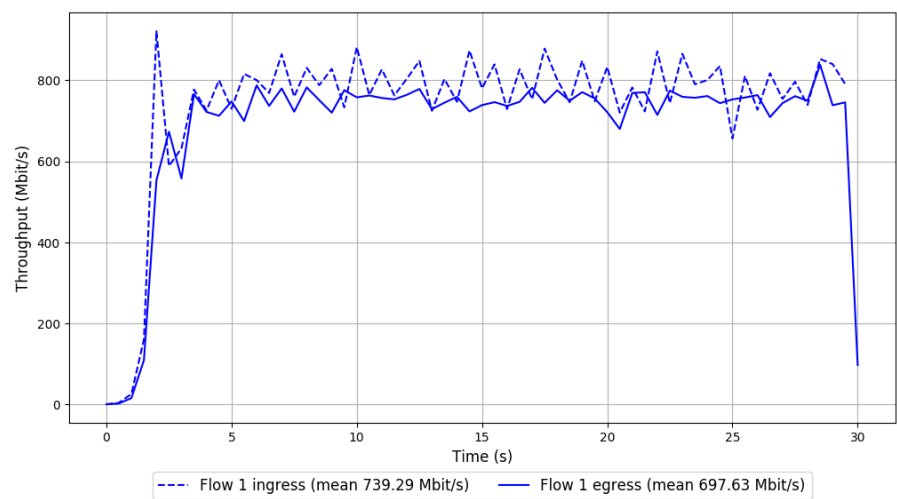
-- Flow 1:

Average throughput: 697.63 Mbit/s

95th percentile per-packet one-way delay: 201.844 ms

Loss rate: 5.64%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-04-10 08:07:51

End at: 2018-04-10 08:08:21

Below is generated by plot.py at 2018-04-10 11:21:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 710.58 Mbit/s

95th percentile per-packet one-way delay: 198.703 ms

Loss rate: 5.87%

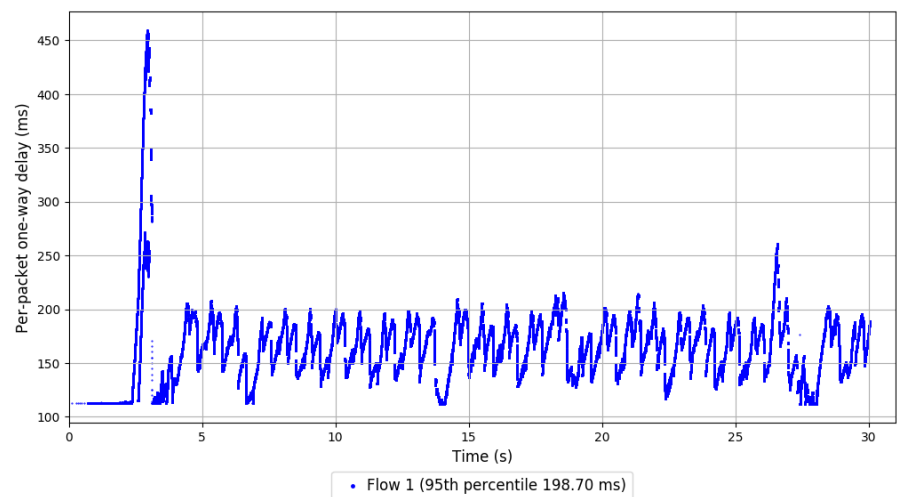
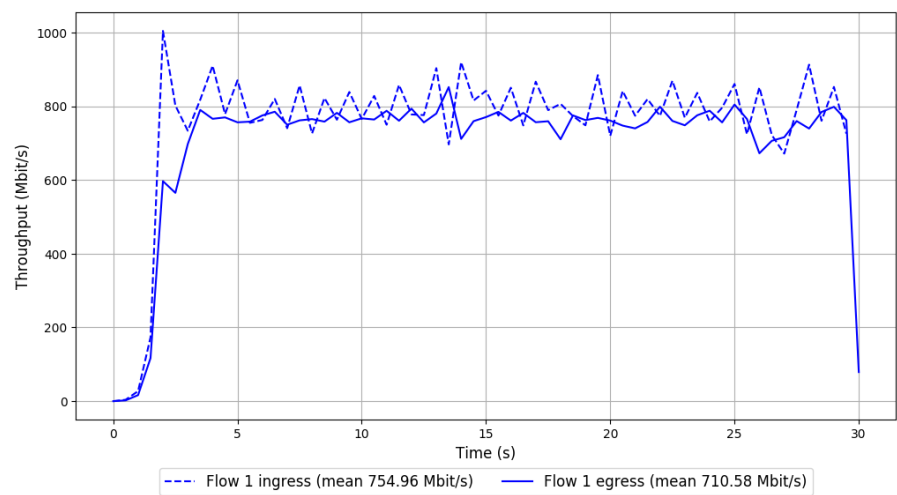
-- Flow 1:

Average throughput: 710.58 Mbit/s

95th percentile per-packet one-way delay: 198.703 ms

Loss rate: 5.87%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-04-10 08:22:51

End at: 2018-04-10 08:23:21

Below is generated by plot.py at 2018-04-10 11:21:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.00 Mbit/s

95th percentile per-packet one-way delay: 307.161 ms

Loss rate: 5.52%

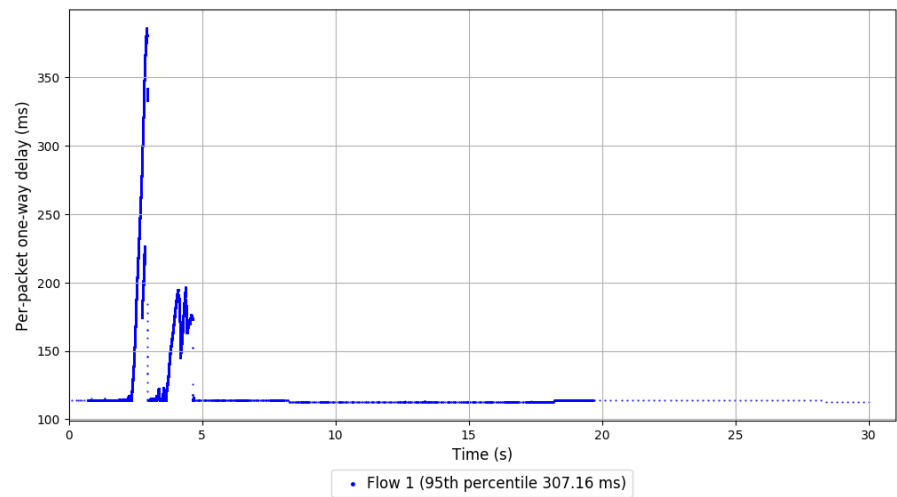
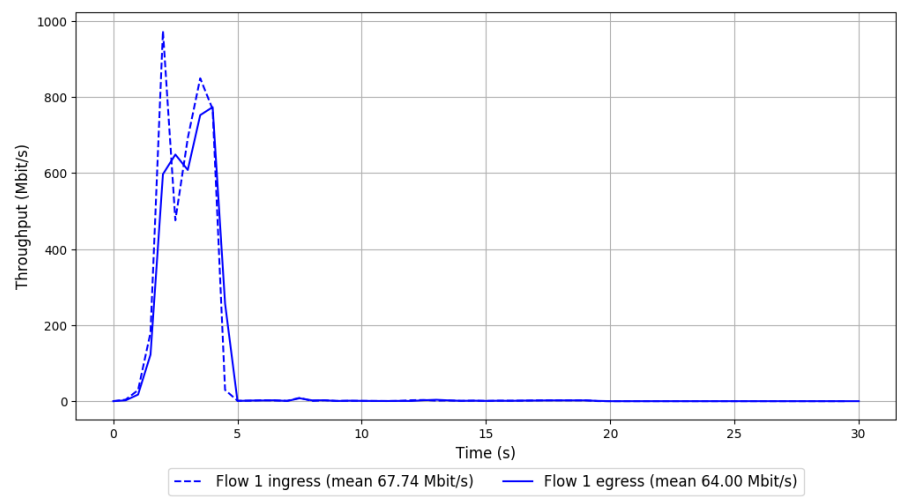
-- Flow 1:

Average throughput: 64.00 Mbit/s

95th percentile per-packet one-way delay: 307.161 ms

Loss rate: 5.52%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-04-10 08:37:28

End at: 2018-04-10 08:37:58

Below is generated by plot.py at 2018-04-10 11:21:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 688.96 Mbit/s

95th percentile per-packet one-way delay: 206.993 ms

Loss rate: 5.00%

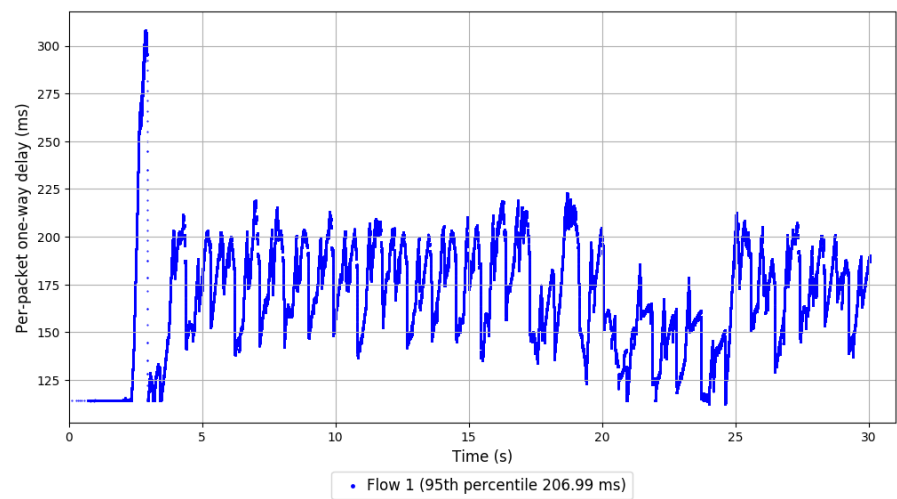
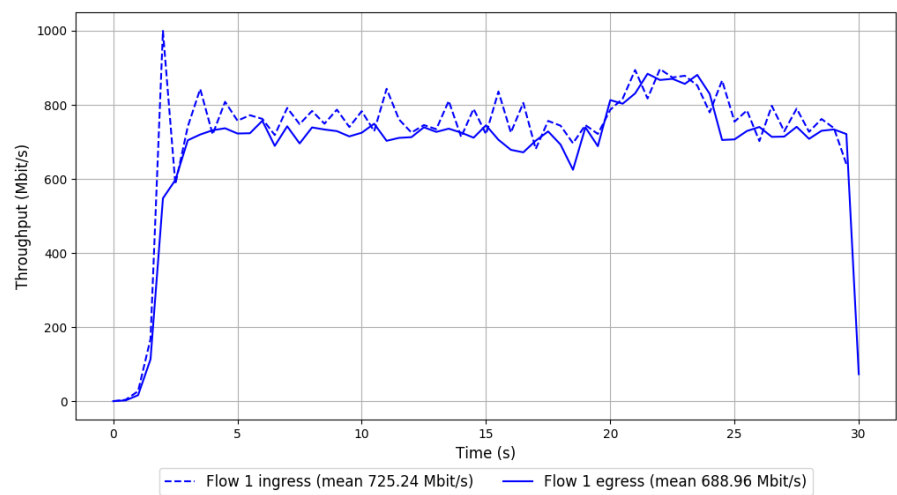
-- Flow 1:

Average throughput: 688.96 Mbit/s

95th percentile per-packet one-way delay: 206.993 ms

Loss rate: 5.00%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-04-10 08:53:08

End at: 2018-04-10 08:53:38

Below is generated by plot.py at 2018-04-10 11:21:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 704.94 Mbit/s

95th percentile per-packet one-way delay: 199.833 ms

Loss rate: 5.26%

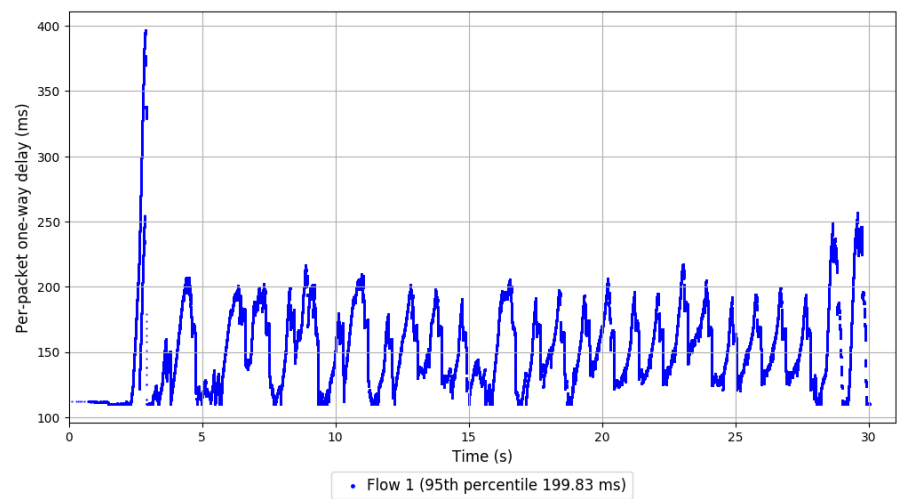
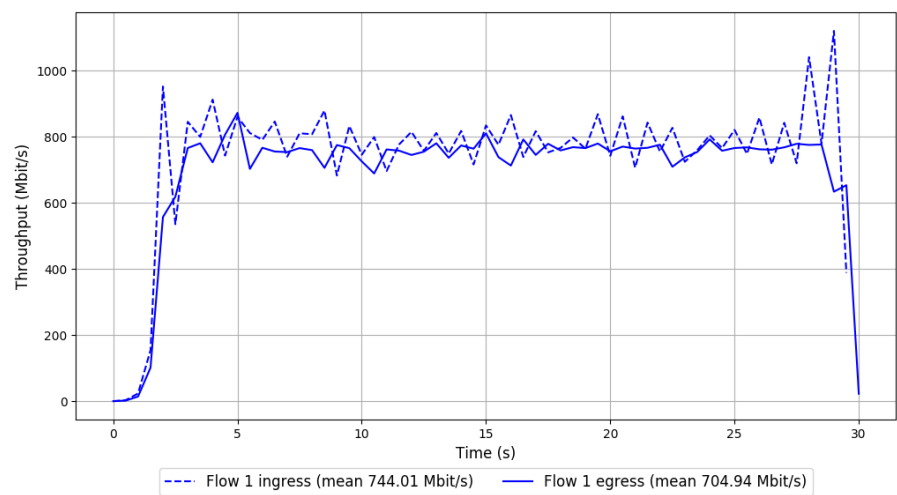
-- Flow 1:

Average throughput: 704.94 Mbit/s

95th percentile per-packet one-way delay: 199.833 ms

Loss rate: 5.26%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-04-10 09:08:08

End at: 2018-04-10 09:08:38

Below is generated by plot.py at 2018-04-10 11:22:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 700.51 Mbit/s

95th percentile per-packet one-way delay: 201.182 ms

Loss rate: 5.18%

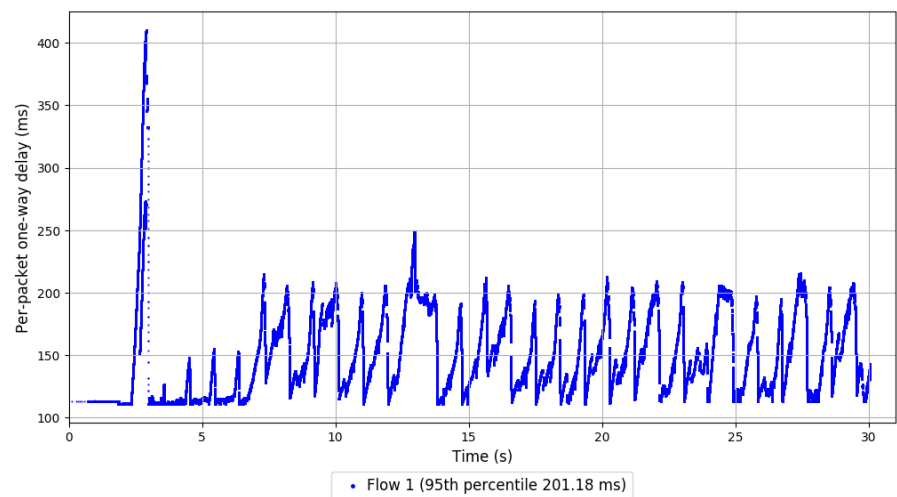
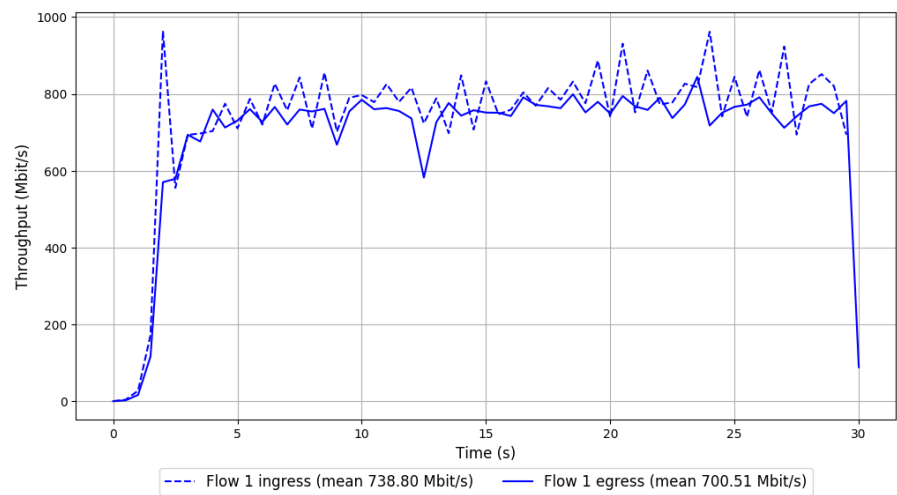
-- Flow 1:

Average throughput: 700.51 Mbit/s

95th percentile per-packet one-way delay: 201.182 ms

Loss rate: 5.18%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-04-10 09:23:22

End at: 2018-04-10 09:23:52

Below is generated by plot.py at 2018-04-10 11:30:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 689.15 Mbit/s

95th percentile per-packet one-way delay: 200.814 ms

Loss rate: 5.55%

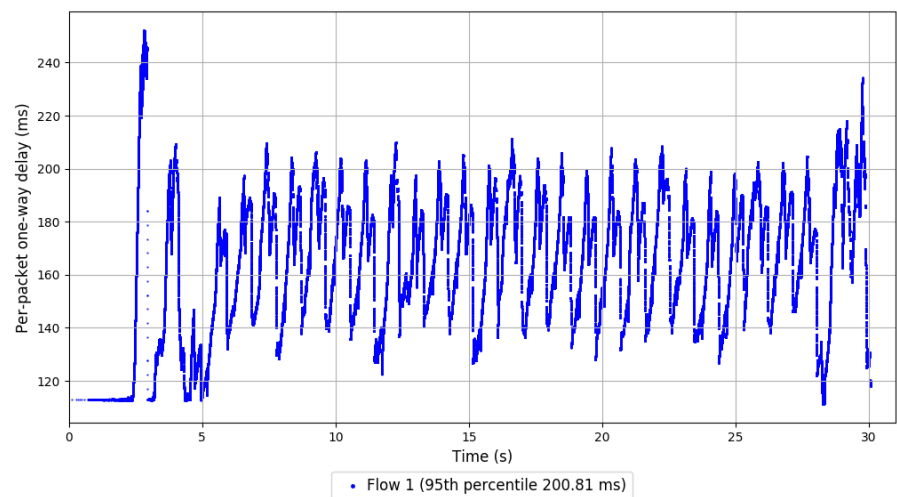
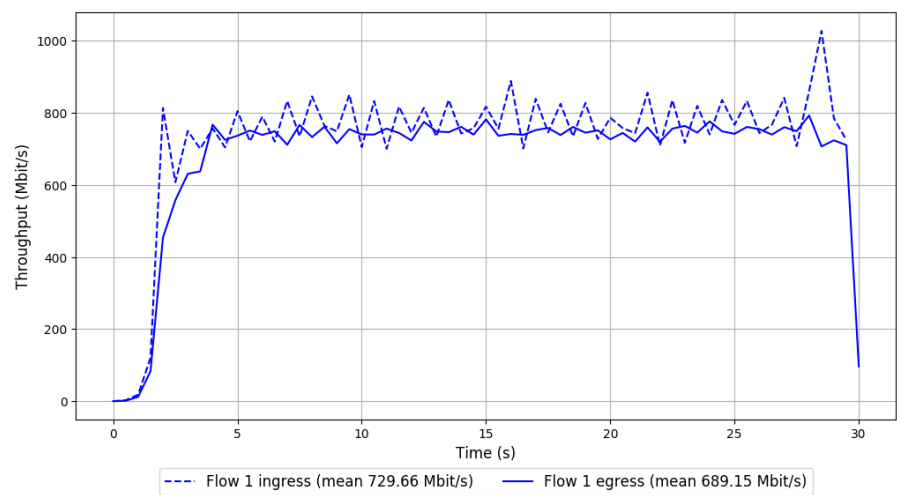
-- Flow 1:

Average throughput: 689.15 Mbit/s

95th percentile per-packet one-way delay: 200.814 ms

Loss rate: 5.55%

Run 10: Report of FillP — Data Link

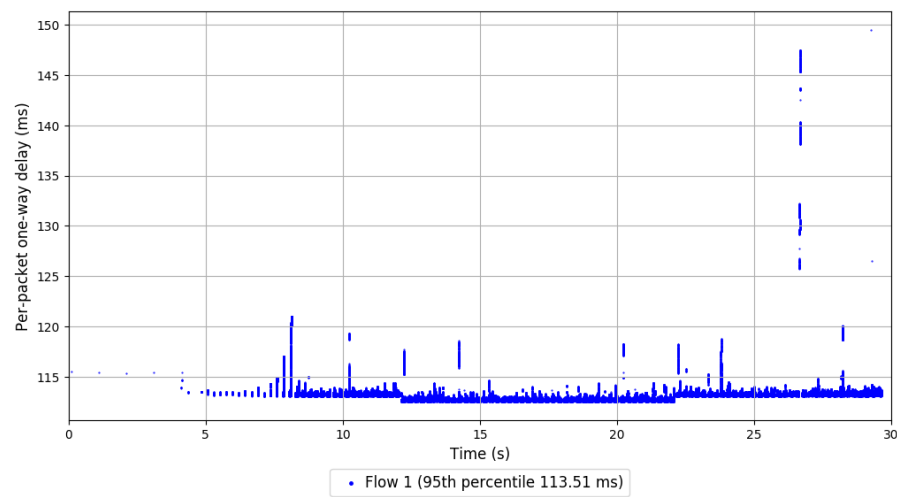
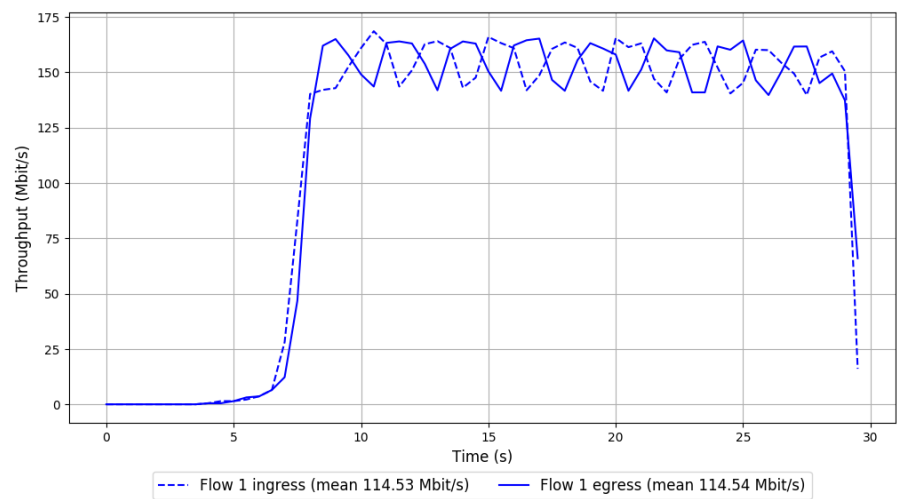


```
Run 1: Statistics of Indigo-1-32

Start at: 2018-04-10 07:14:57
End at: 2018-04-10 07:15:27

# Below is generated by plot.py at 2018-04-10 11:30:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 114.54 Mbit/s
95th percentile per-packet one-way delay: 113.506 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 114.54 Mbit/s
95th percentile per-packet one-way delay: 113.506 ms
Loss rate: 0.00%
```

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

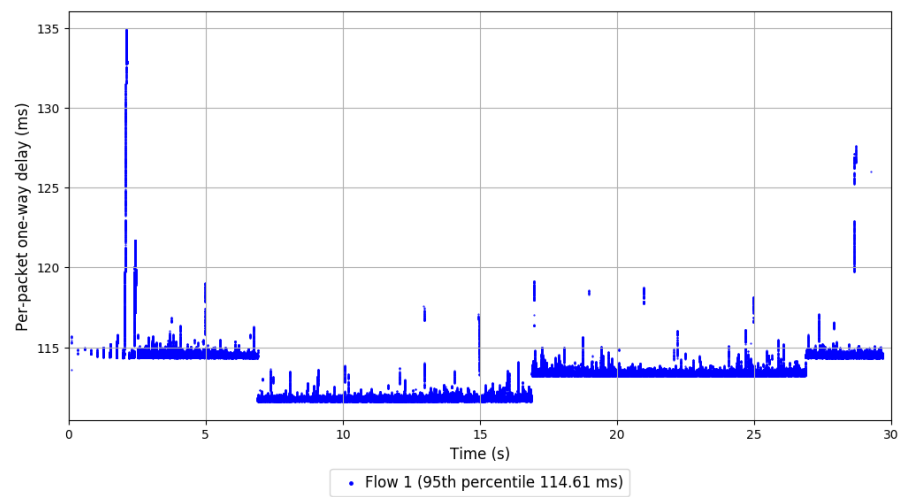
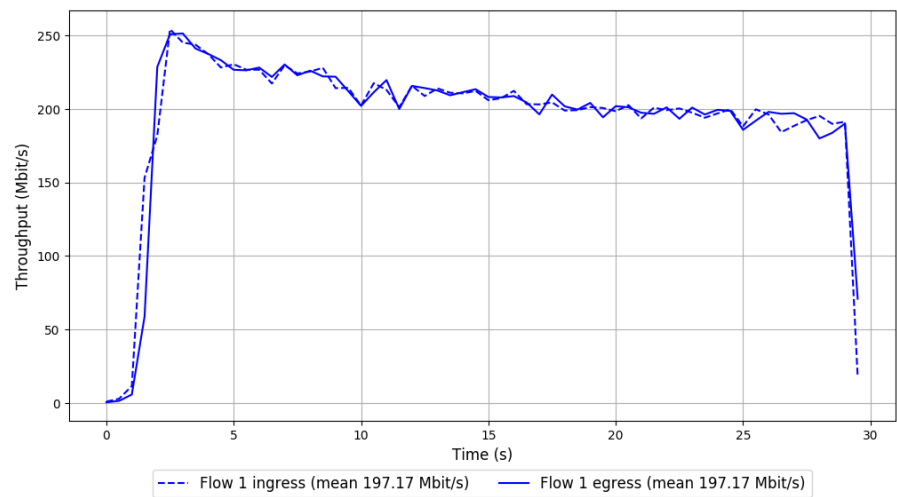


```
Run 2: Statistics of Indigo-1-32

Start at: 2018-04-10 07:30:12
End at: 2018-04-10 07:30:42

# Below is generated by plot.py at 2018-04-10 11:30:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 197.17 Mbit/s
95th percentile per-packet one-way delay: 114.615 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 197.17 Mbit/s
95th percentile per-packet one-way delay: 114.615 ms
Loss rate: 0.00%
```

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



Run 3: Statistics of Indigo-1-32

Start at: 2018-04-10 07:45:22

End at: 2018-04-10 07:45:53

Below is generated by plot.py at 2018-04-10 11:30:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 160.95 Mbit/s

95th percentile per-packet one-way delay: 114.670 ms

Loss rate: 0.00%

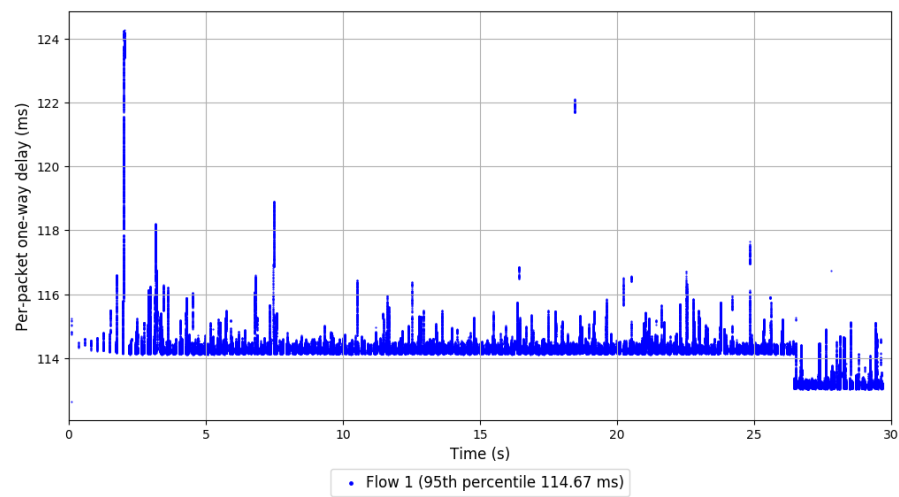
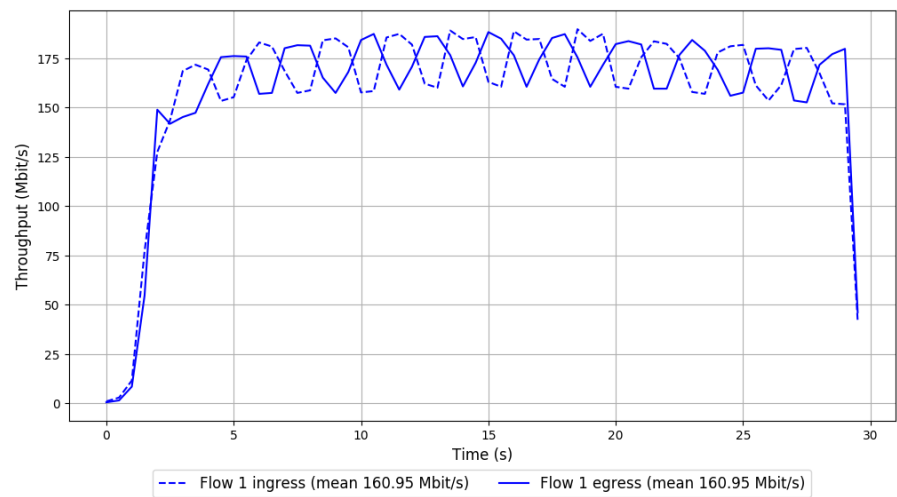
-- Flow 1:

Average throughput: 160.95 Mbit/s

95th percentile per-packet one-way delay: 114.670 ms

Loss rate: 0.00%

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



Run 4: Statistics of Indigo-1-32

Start at: 2018-04-10 08:00:15

End at: 2018-04-10 08:00:45

Below is generated by plot.py at 2018-04-10 11:30:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 153.50 Mbit/s

95th percentile per-packet one-way delay: 115.298 ms

Loss rate: 0.00%

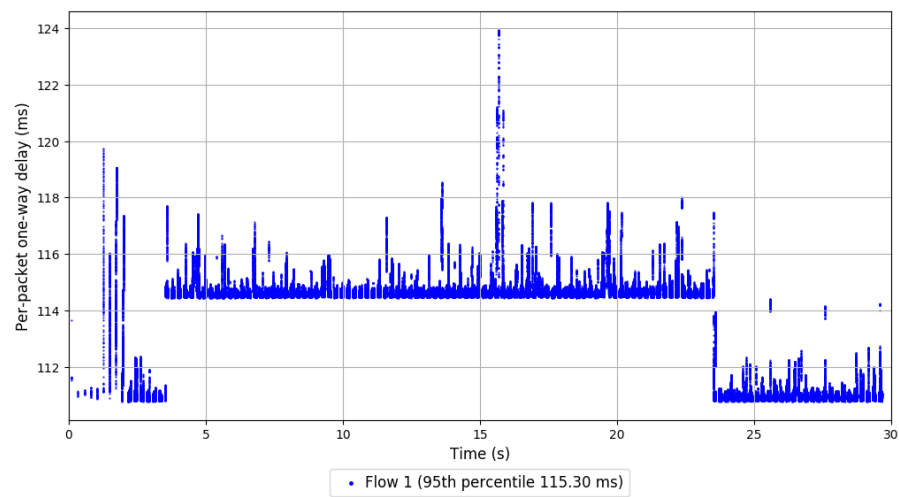
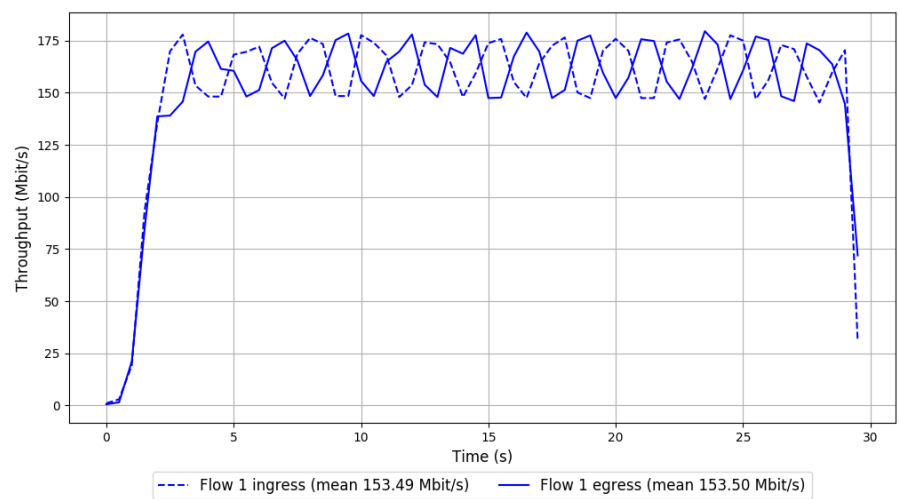
-- Flow 1:

Average throughput: 153.50 Mbit/s

95th percentile per-packet one-way delay: 115.298 ms

Loss rate: 0.00%

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



Run 5: Statistics of Indigo-1-32

Start at: 2018-04-10 08:15:19

End at: 2018-04-10 08:15:49

Below is generated by plot.py at 2018-04-10 11:30:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 152.05 Mbit/s

95th percentile per-packet one-way delay: 113.968 ms

Loss rate: 0.00%

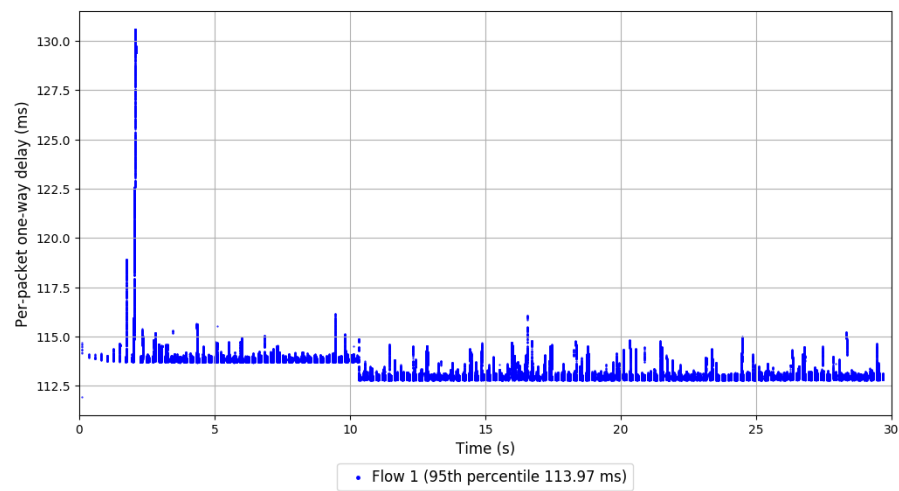
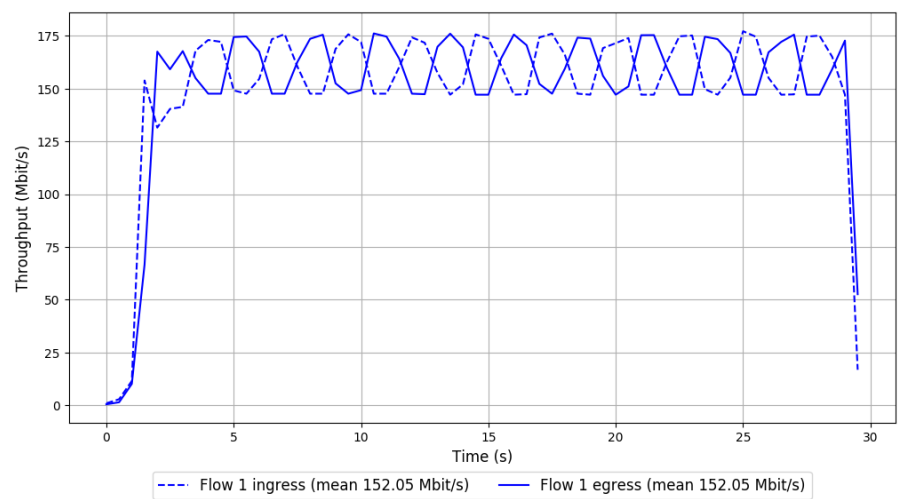
-- Flow 1:

Average throughput: 152.05 Mbit/s

95th percentile per-packet one-way delay: 113.968 ms

Loss rate: 0.00%

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



Run 6: Statistics of Indigo-1-32

Start at: 2018-04-10 08:29:52

End at: 2018-04-10 08:30:22

Below is generated by plot.py at 2018-04-10 11:30:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 167.59 Mbit/s

95th percentile per-packet one-way delay: 113.958 ms

Loss rate: 0.00%

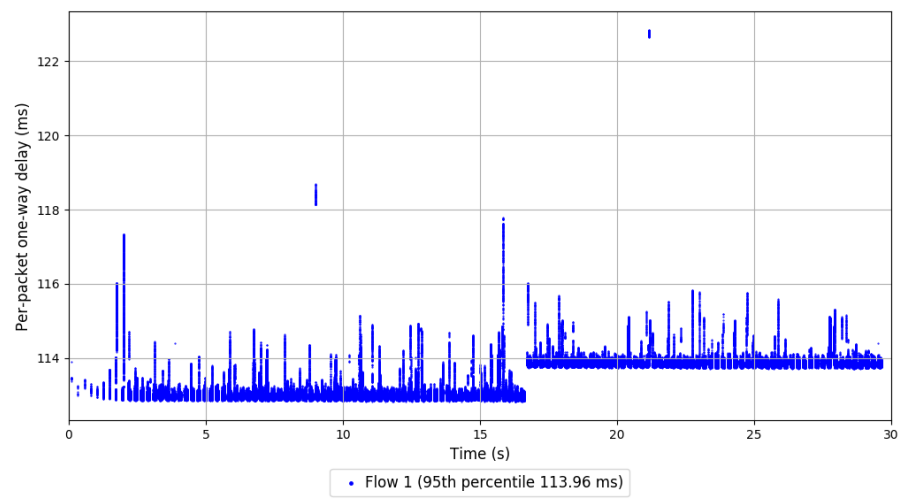
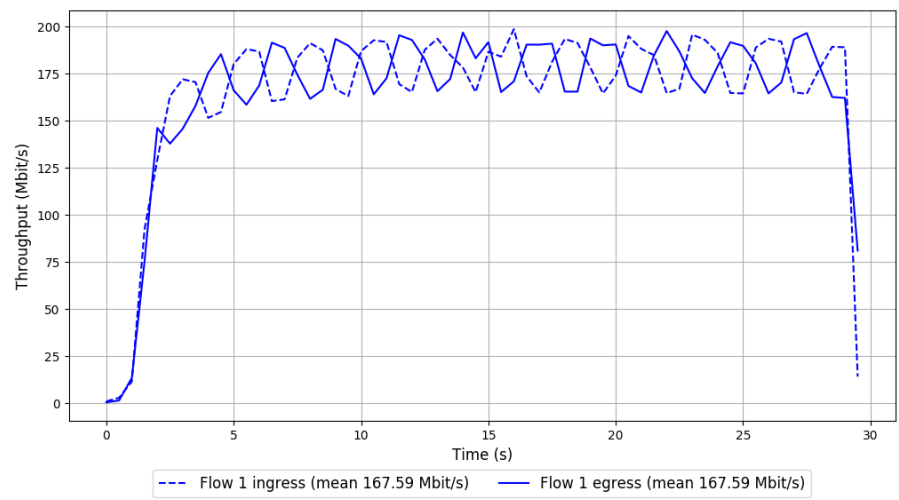
-- Flow 1:

Average throughput: 167.59 Mbit/s

95th percentile per-packet one-way delay: 113.958 ms

Loss rate: 0.00%

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



Run 7: Statistics of Indigo-1-32

Start at: 2018-04-10 08:45:15

End at: 2018-04-10 08:45:45

Below is generated by plot.py at 2018-04-10 11:30:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 146.40 Mbit/s

95th percentile per-packet one-way delay: 113.253 ms

Loss rate: 0.00%

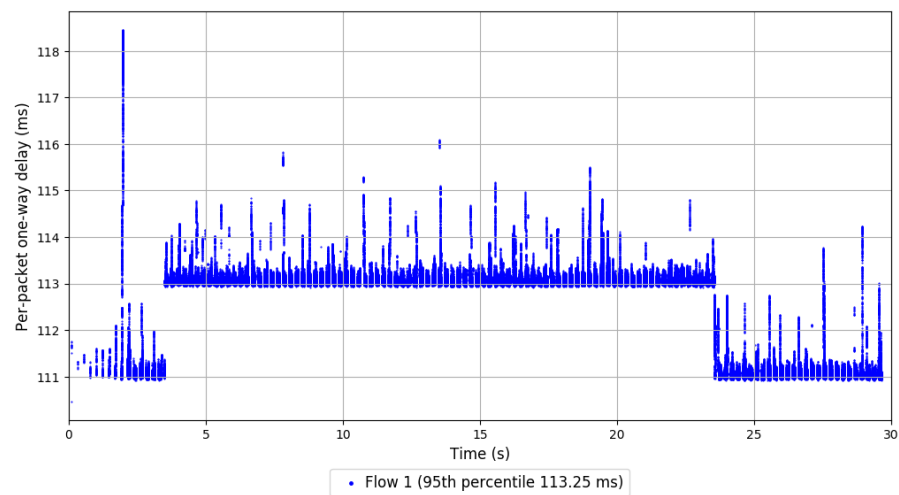
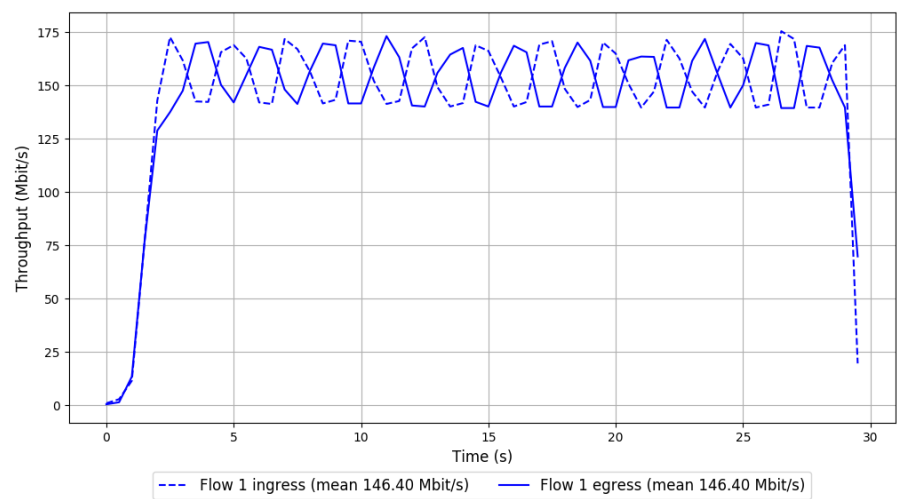
-- Flow 1:

Average throughput: 146.40 Mbit/s

95th percentile per-packet one-way delay: 113.253 ms

Loss rate: 0.00%

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



Run 8: Statistics of Indigo-1-32

Start at: 2018-04-10 09:00:30

End at: 2018-04-10 09:01:00

Below is generated by plot.py at 2018-04-10 11:30:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 163.95 Mbit/s

95th percentile per-packet one-way delay: 113.014 ms

Loss rate: 0.00%

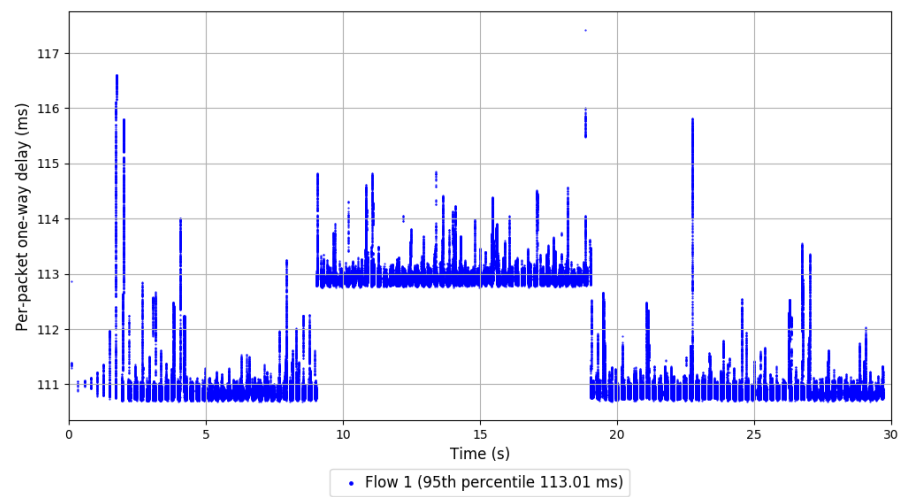
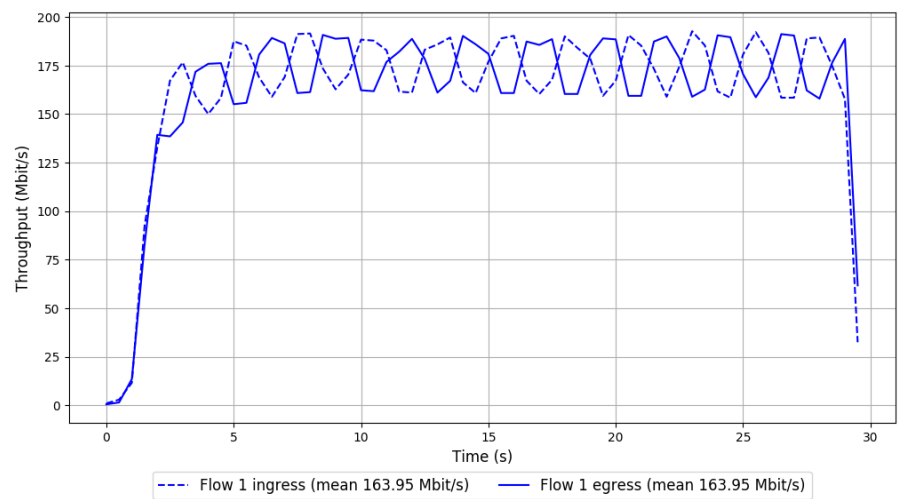
-- Flow 1:

Average throughput: 163.95 Mbit/s

95th percentile per-packet one-way delay: 113.014 ms

Loss rate: 0.00%

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



Run 9: Statistics of Indigo-1-32

Start at: 2018-04-10 09:15:44

End at: 2018-04-10 09:16:14

Below is generated by plot.py at 2018-04-10 11:30:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 146.50 Mbit/s

95th percentile per-packet one-way delay: 111.703 ms

Loss rate: 0.00%

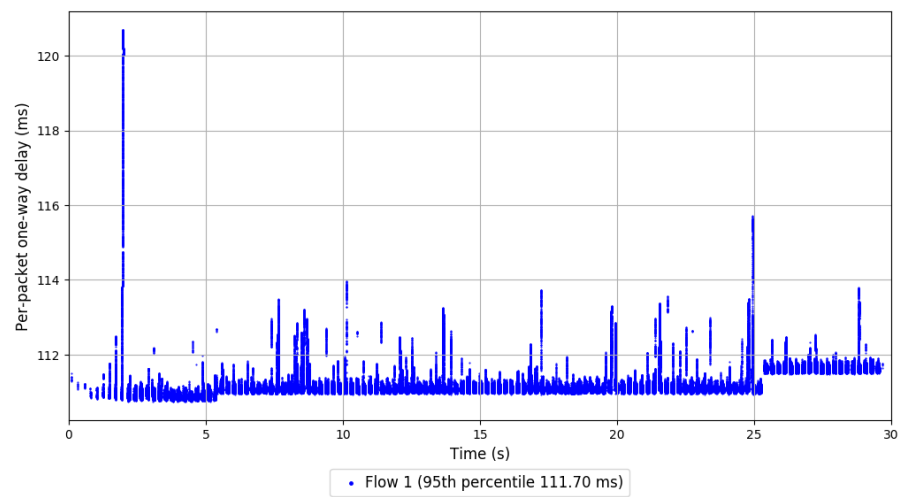
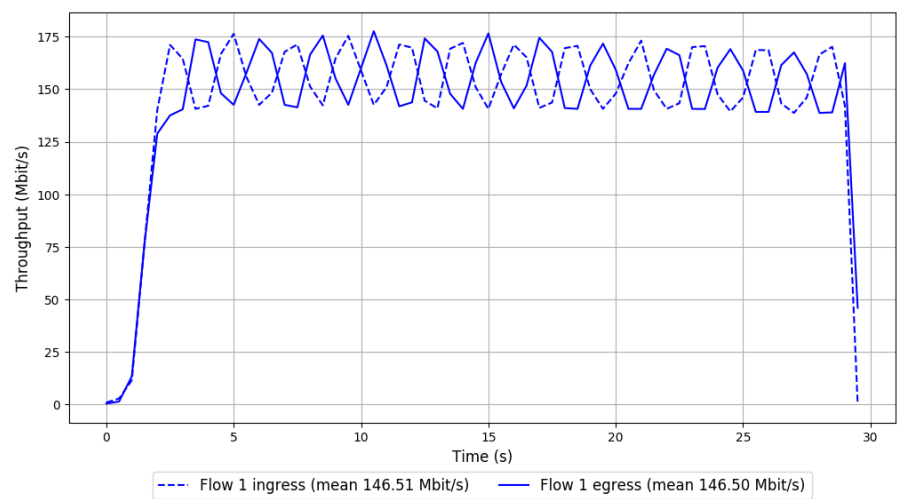
-- Flow 1:

Average throughput: 146.50 Mbit/s

95th percentile per-packet one-way delay: 111.703 ms

Loss rate: 0.00%

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



Run 10: Statistics of Indigo-1-32

Start at: 2018-04-10 09:31:05

End at: 2018-04-10 09:31:35

Below is generated by plot.py at 2018-04-10 11:30:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 152.40 Mbit/s

95th percentile per-packet one-way delay: 111.860 ms

Loss rate: 0.00%

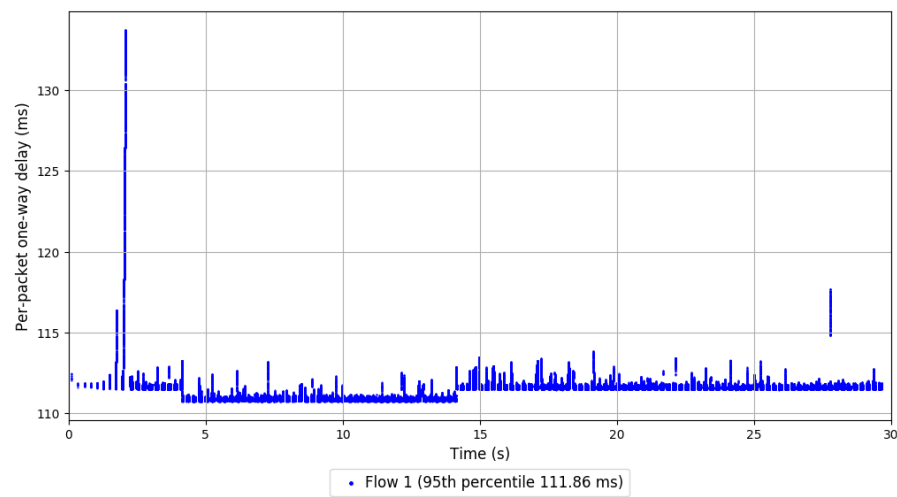
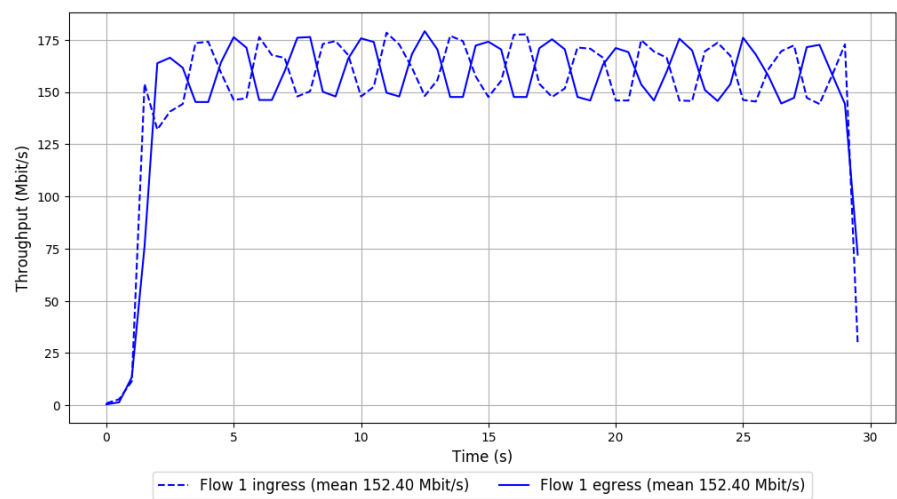
-- Flow 1:

Average throughput: 152.40 Mbit/s

95th percentile per-packet one-way delay: 111.860 ms

Loss rate: 0.00%

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



Run 1: Statistics of Vivace-latency

Start at: 2018-04-10 07:11:48

End at: 2018-04-10 07:12:18

Below is generated by plot.py at 2018-04-10 11:30:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 247.91 Mbit/s

95th percentile per-packet one-way delay: 236.406 ms

Loss rate: 0.34%

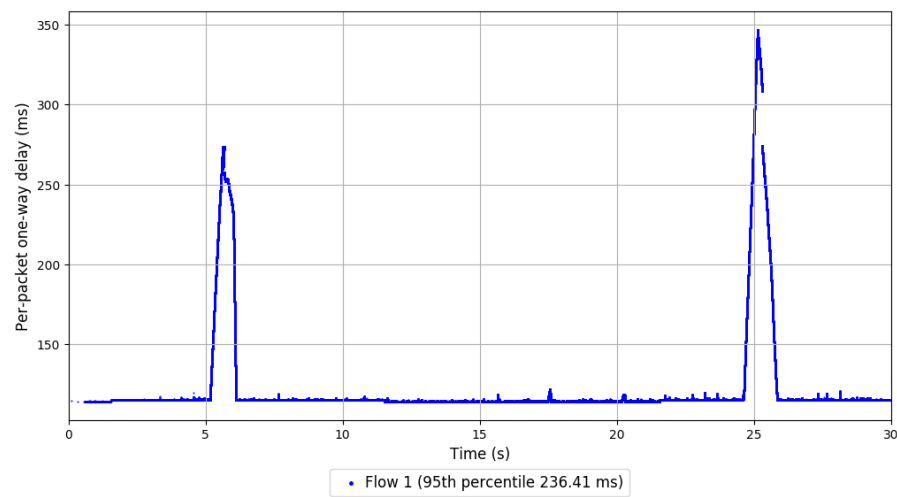
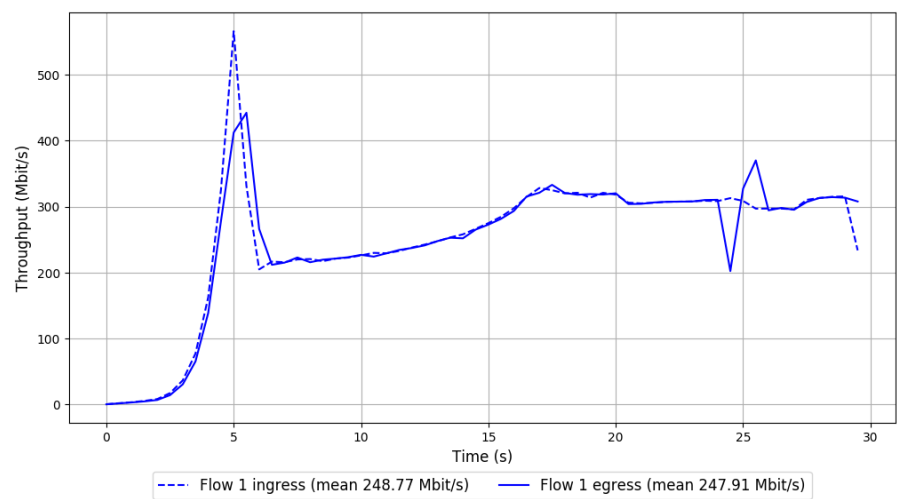
-- Flow 1:

Average throughput: 247.91 Mbit/s

95th percentile per-packet one-way delay: 236.406 ms

Loss rate: 0.34%

Run 1: Report of Vivace-latency — Data Link



Run 2: Statistics of Vivace-latency

Start at: 2018-04-10 07:27:11

End at: 2018-04-10 07:27:41

Below is generated by plot.py at 2018-04-10 11:30:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 280.90 Mbit/s

95th percentile per-packet one-way delay: 139.573 ms

Loss rate: 0.81%

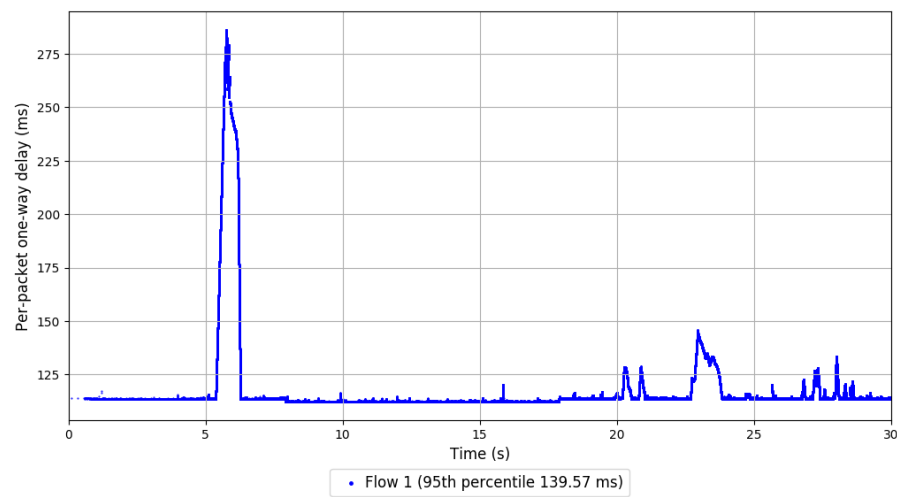
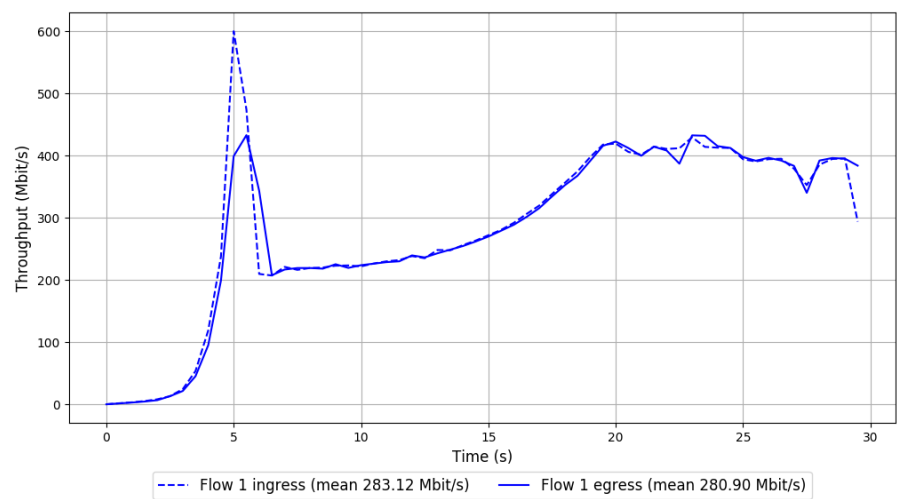
-- Flow 1:

Average throughput: 280.90 Mbit/s

95th percentile per-packet one-way delay: 139.573 ms

Loss rate: 0.81%

Run 2: Report of Vivace-latency — Data Link



Run 3: Statistics of Vivace-latency

Start at: 2018-04-10 07:42:16

End at: 2018-04-10 07:42:46

Below is generated by plot.py at 2018-04-10 11:30:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 251.91 Mbit/s

95th percentile per-packet one-way delay: 133.666 ms

Loss rate: 0.00%

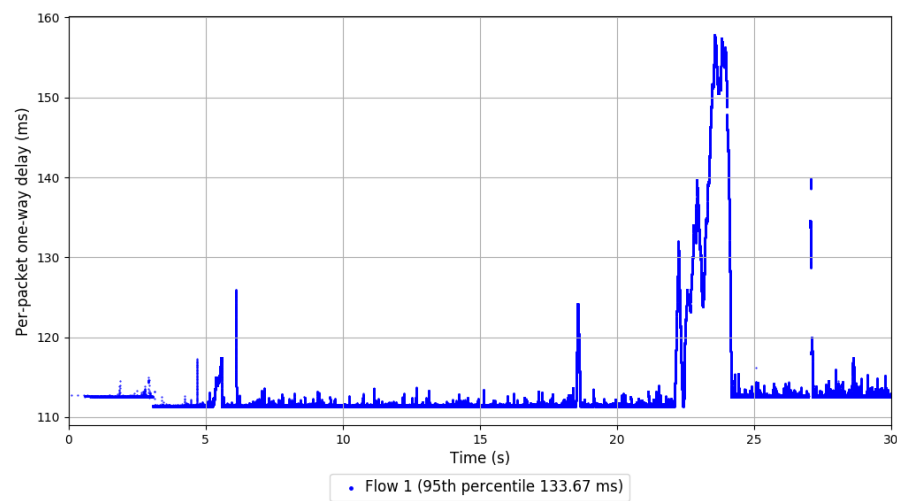
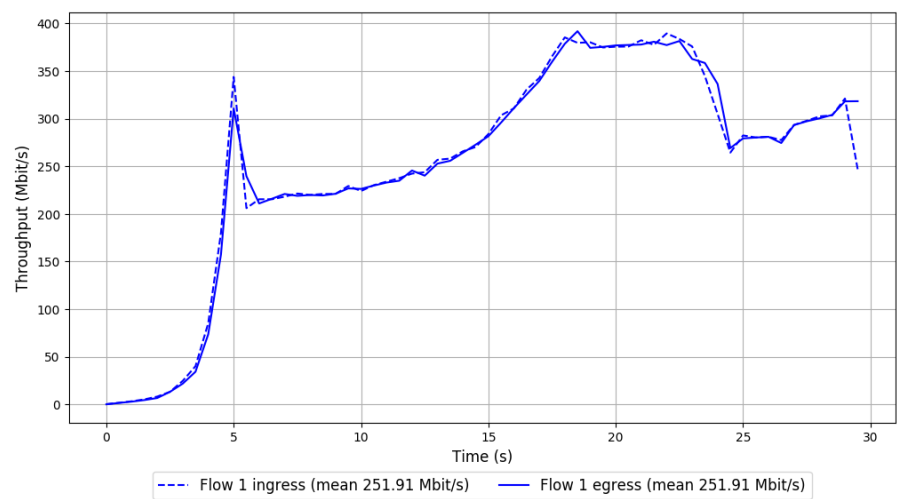
-- Flow 1:

Average throughput: 251.91 Mbit/s

95th percentile per-packet one-way delay: 133.666 ms

Loss rate: 0.00%

Run 3: Report of Vivace-latency — Data Link



Run 4: Statistics of Vivace-latency

Start at: 2018-04-10 07:57:20

End at: 2018-04-10 07:57:50

Below is generated by plot.py at 2018-04-10 11:30:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 184.27 Mbit/s

95th percentile per-packet one-way delay: 179.612 ms

Loss rate: 1.52%

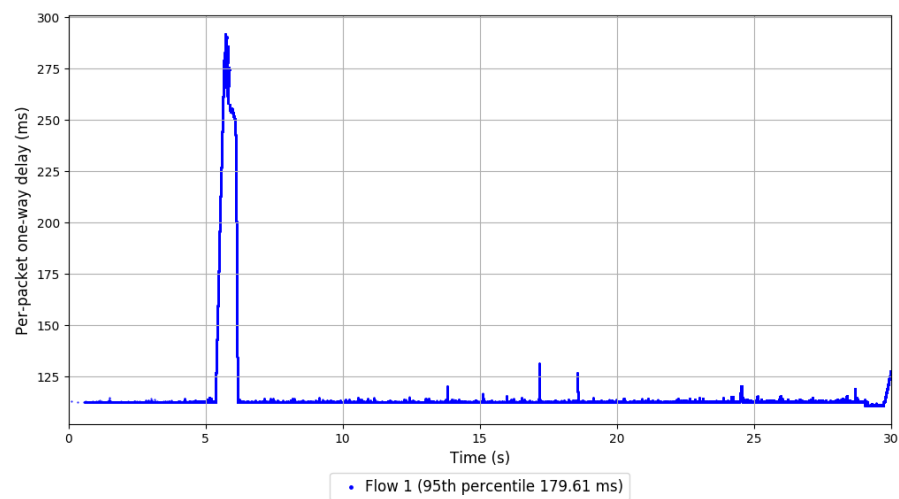
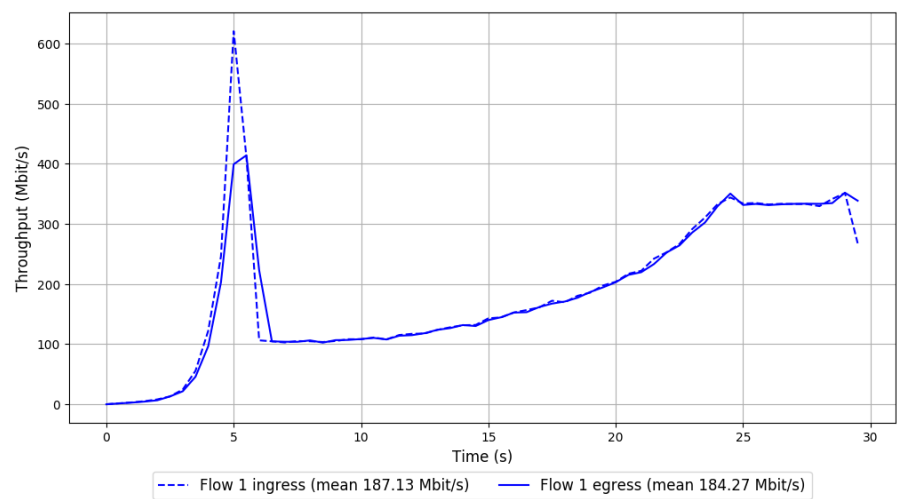
-- Flow 1:

Average throughput: 184.27 Mbit/s

95th percentile per-packet one-way delay: 179.612 ms

Loss rate: 1.52%

Run 4: Report of Vivace-latency — Data Link



Run 5: Statistics of Vivace-latency

Start at: 2018-04-10 08:12:13

End at: 2018-04-10 08:12:43

Below is generated by plot.py at 2018-04-10 11:30:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 256.64 Mbit/s

95th percentile per-packet one-way delay: 116.123 ms

Loss rate: 0.00%

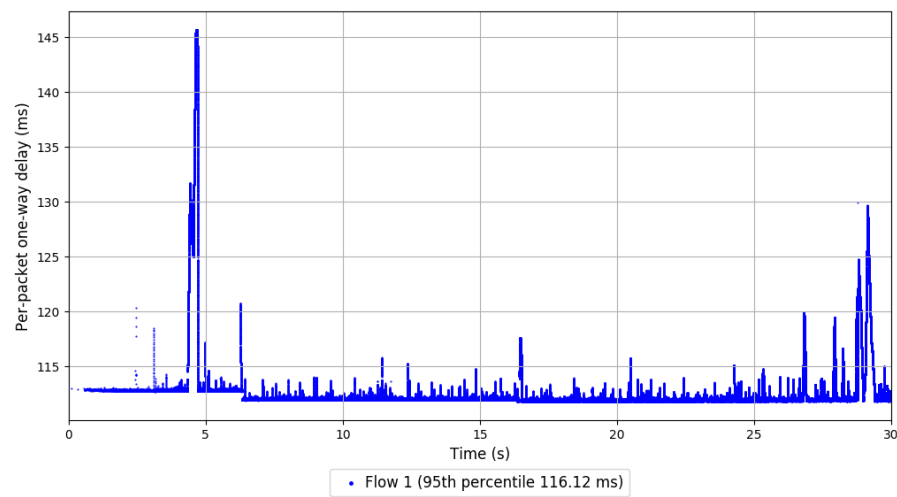
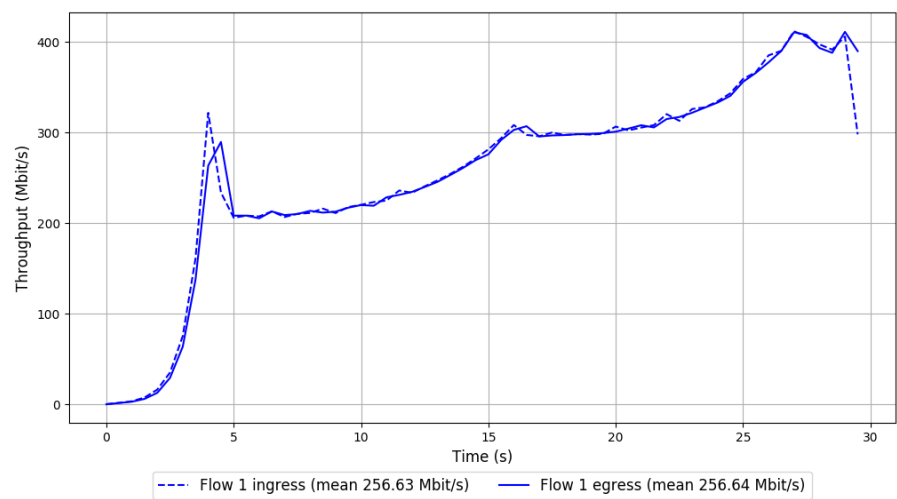
-- Flow 1:

Average throughput: 256.64 Mbit/s

95th percentile per-packet one-way delay: 116.123 ms

Loss rate: 0.00%

Run 5: Report of Vivace-latency — Data Link



Run 6: Statistics of Vivace-latency

Start at: 2018-04-10 08:26:48

End at: 2018-04-10 08:27:18

Below is generated by plot.py at 2018-04-10 11:30:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 309.77 Mbit/s

95th percentile per-packet one-way delay: 131.785 ms

Loss rate: 0.00%

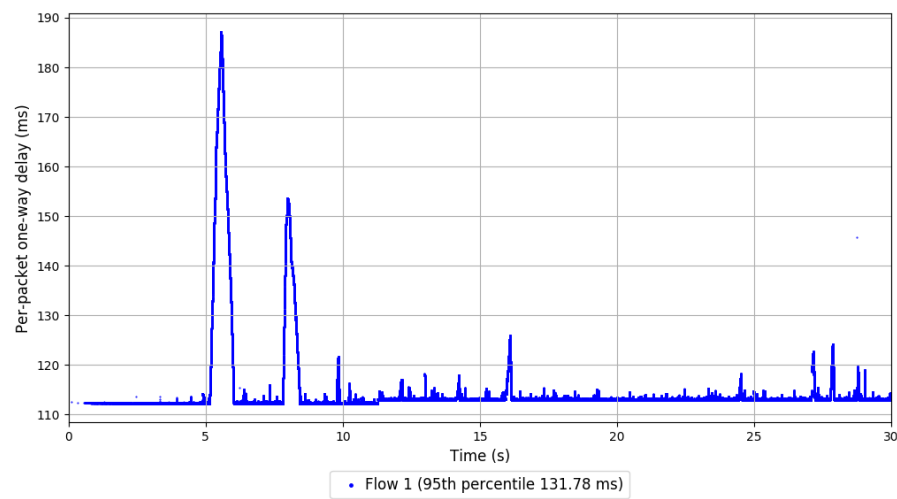
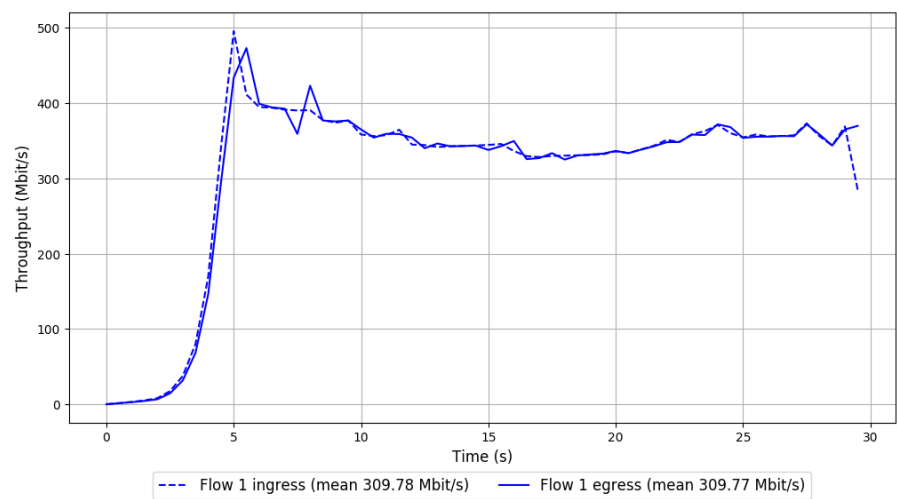
-- Flow 1:

Average throughput: 309.77 Mbit/s

95th percentile per-packet one-way delay: 131.785 ms

Loss rate: 0.00%

Run 6: Report of Vivace-latency — Data Link



Run 7: Statistics of Vivace-latency

Start at: 2018-04-10 08:42:01

End at: 2018-04-10 08:42:31

Below is generated by plot.py at 2018-04-10 11:30:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 358.91 Mbit/s

95th percentile per-packet one-way delay: 126.036 ms

Loss rate: 0.02%

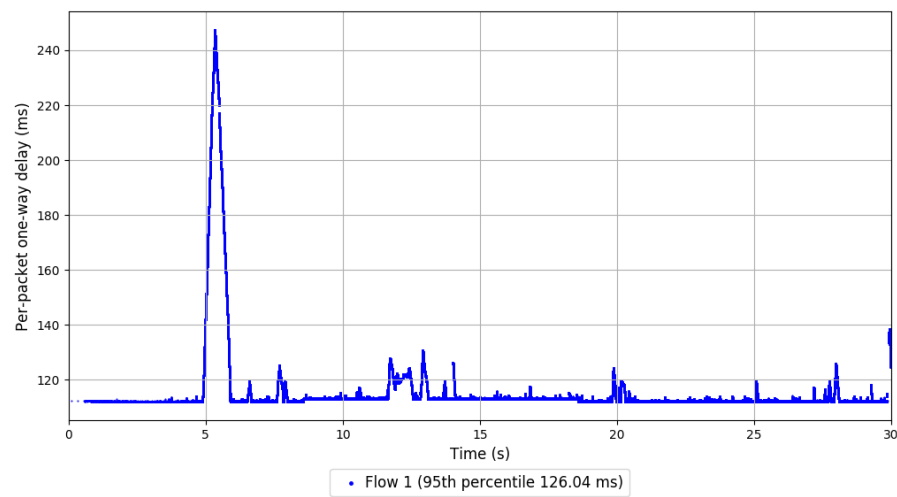
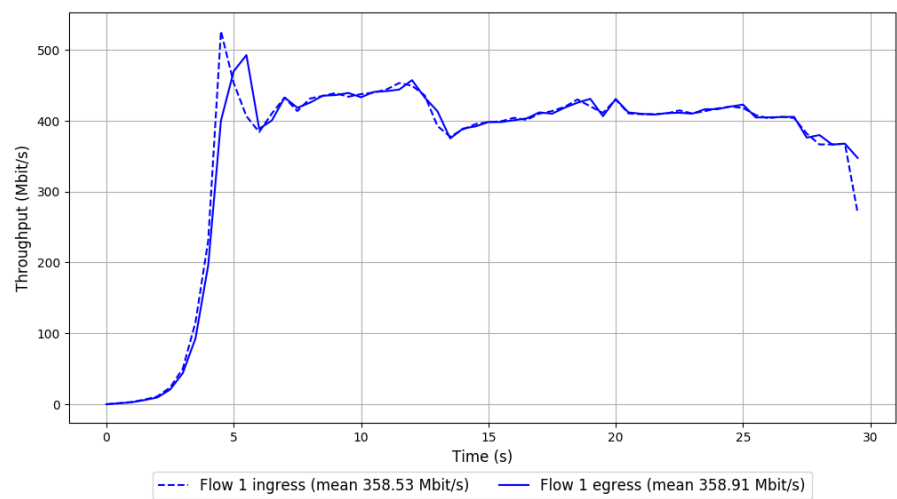
-- Flow 1:

Average throughput: 358.91 Mbit/s

95th percentile per-packet one-way delay: 126.036 ms

Loss rate: 0.02%

Run 7: Report of Vivace-latency — Data Link



Run 8: Statistics of Vivace-latency

Start at: 2018-04-10 08:57:32

End at: 2018-04-10 08:58:02

Below is generated by plot.py at 2018-04-10 11:32:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 321.20 Mbit/s

95th percentile per-packet one-way delay: 163.345 ms

Loss rate: 0.00%

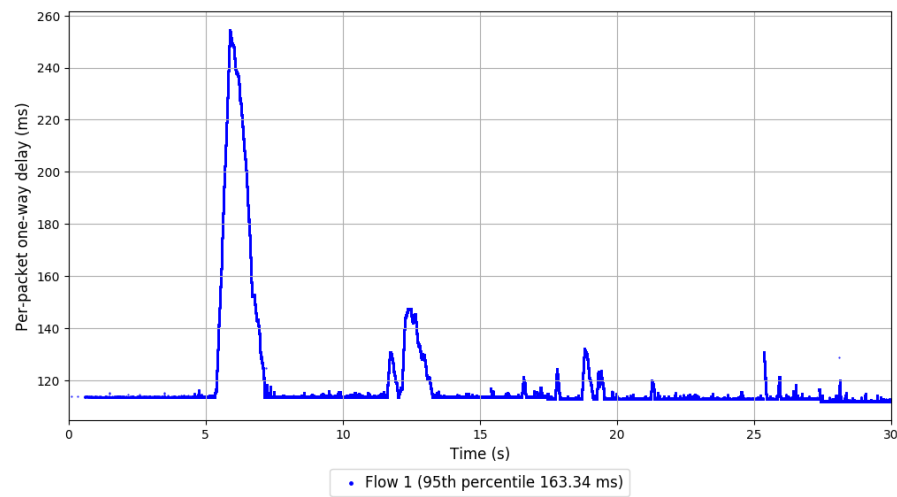
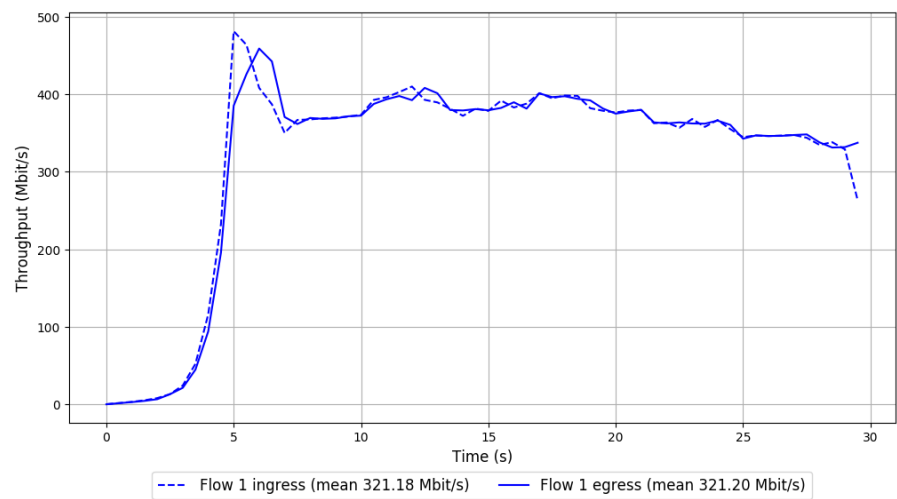
-- Flow 1:

Average throughput: 321.20 Mbit/s

95th percentile per-packet one-way delay: 163.345 ms

Loss rate: 0.00%

Run 8: Report of Vivace-latency — Data Link



Run 9: Statistics of Vivace-latency

Start at: 2018-04-10 09:12:37

End at: 2018-04-10 09:13:07

Below is generated by plot.py at 2018-04-10 11:32:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 321.34 Mbit/s

95th percentile per-packet one-way delay: 139.468 ms

Loss rate: 0.00%

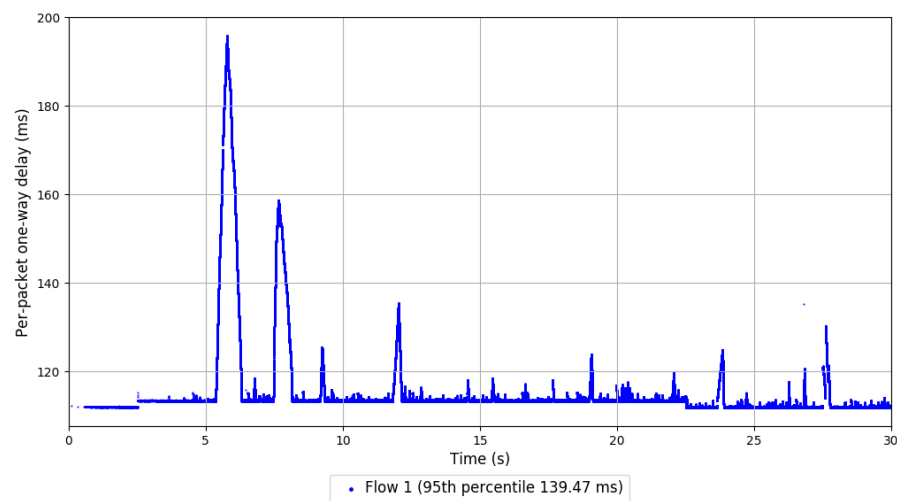
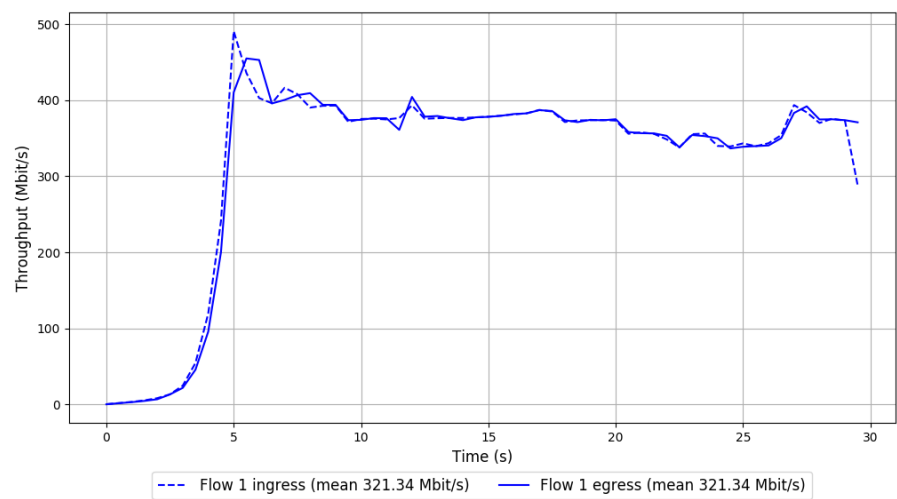
-- Flow 1:

Average throughput: 321.34 Mbit/s

95th percentile per-packet one-way delay: 139.468 ms

Loss rate: 0.00%

Run 9: Report of Vivace-latency — Data Link



Run 10: Statistics of Vivace-latency

Start at: 2018-04-10 09:27:54

End at: 2018-04-10 09:28:24

Below is generated by plot.py at 2018-04-10 11:33:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 341.55 Mbit/s

95th percentile per-packet one-way delay: 170.357 ms

Loss rate: 0.00%

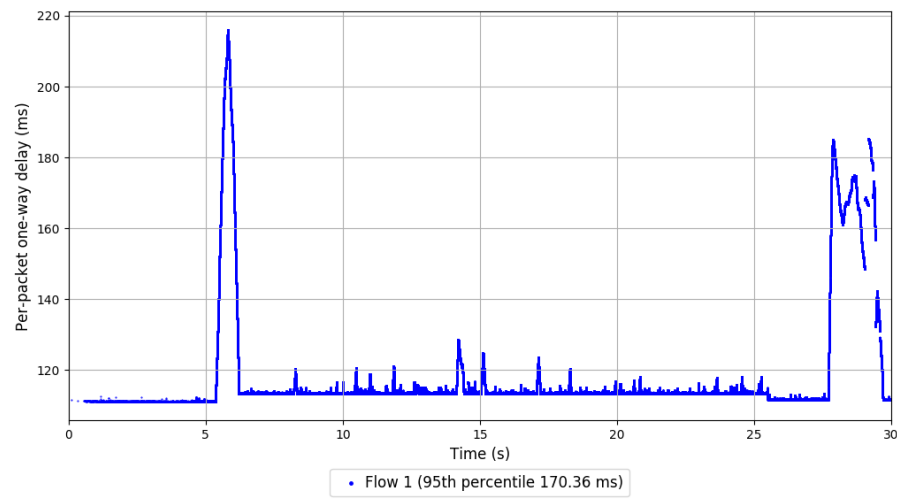
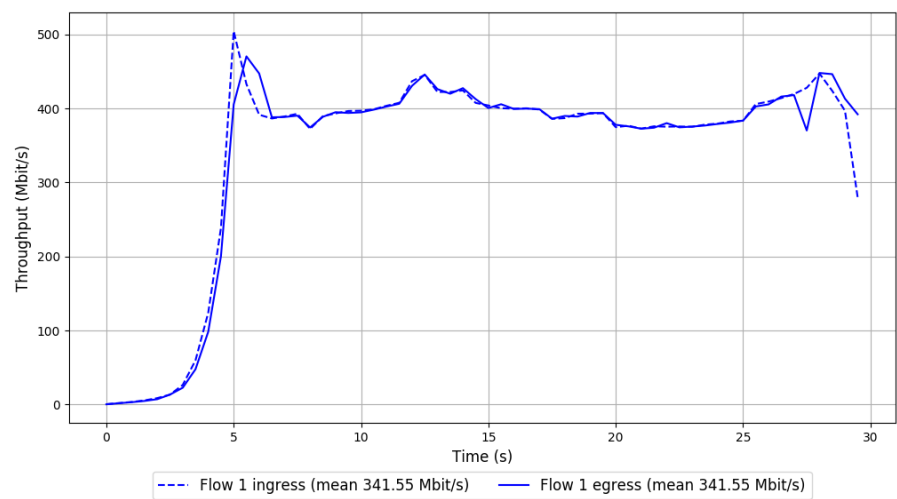
-- Flow 1:

Average throughput: 341.55 Mbit/s

95th percentile per-packet one-way delay: 170.357 ms

Loss rate: 0.00%

Run 10: Report of Vivace-latency — Data Link

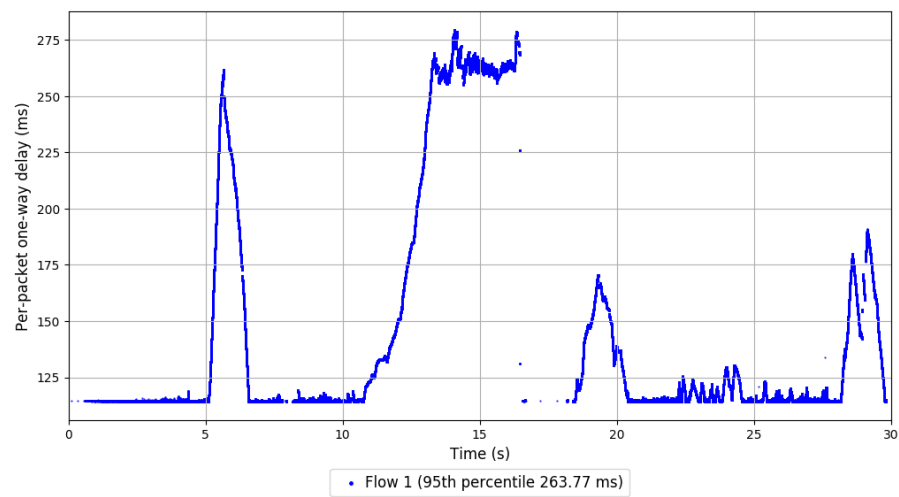
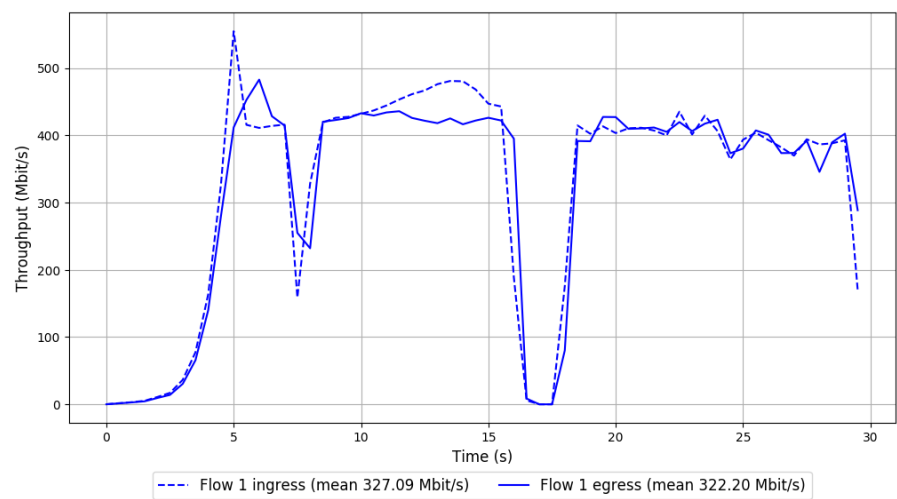


```
Run 1: Statistics of Vivace-loss

Start at: 2018-04-10 07:10:43
End at: 2018-04-10 07:11:13

# Below is generated by plot.py at 2018-04-10 11:33:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 322.20 Mbit/s
95th percentile per-packet one-way delay: 263.771 ms
Loss rate: 1.50%
-- Flow 1:
Average throughput: 322.20 Mbit/s
95th percentile per-packet one-way delay: 263.771 ms
Loss rate: 1.50%
```

Run 1: Report of Vivace-loss — Data Link



Run 2: Statistics of Vivace-loss

Start at: 2018-04-10 07:26:17

End at: 2018-04-10 07:26:47

Below is generated by plot.py at 2018-04-10 11:33:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 171.85 Mbit/s

95th percentile per-packet one-way delay: 273.008 ms

Loss rate: 4.78%

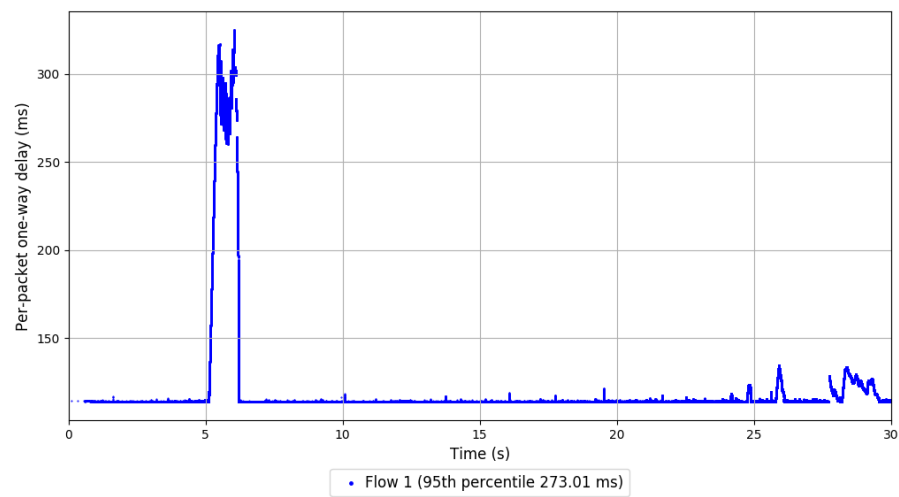
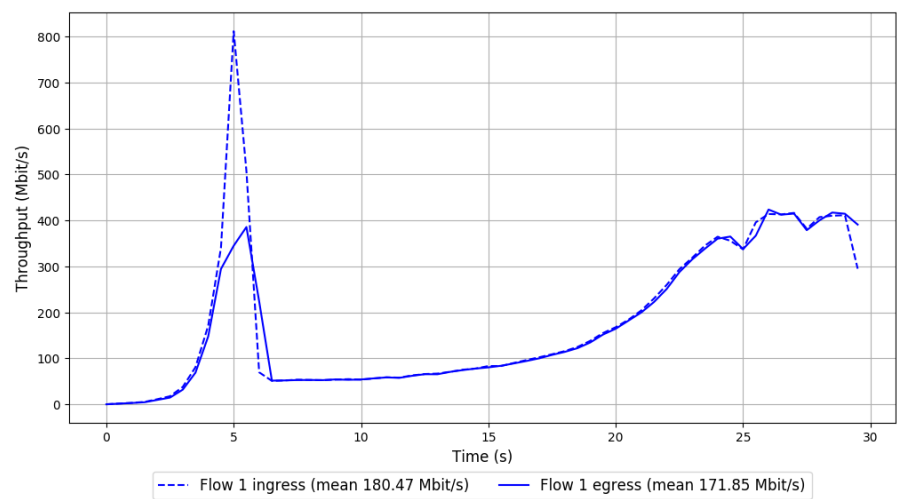
-- Flow 1:

Average throughput: 171.85 Mbit/s

95th percentile per-packet one-way delay: 273.008 ms

Loss rate: 4.78%

Run 2: Report of Vivace-loss — Data Link



Run 3: Statistics of Vivace-loss

Start at: 2018-04-10 07:41:20

End at: 2018-04-10 07:41:50

Below is generated by plot.py at 2018-04-10 11:33:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 209.93 Mbit/s

95th percentile per-packet one-way delay: 260.760 ms

Loss rate: 5.39%

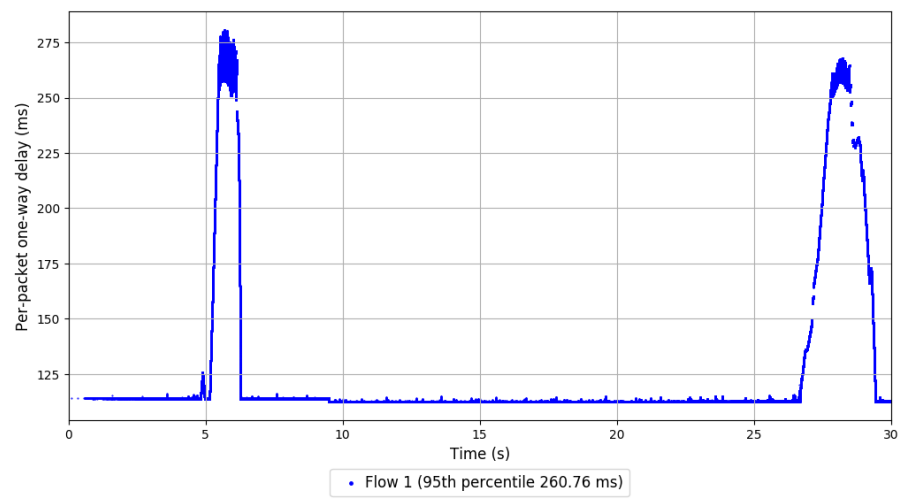
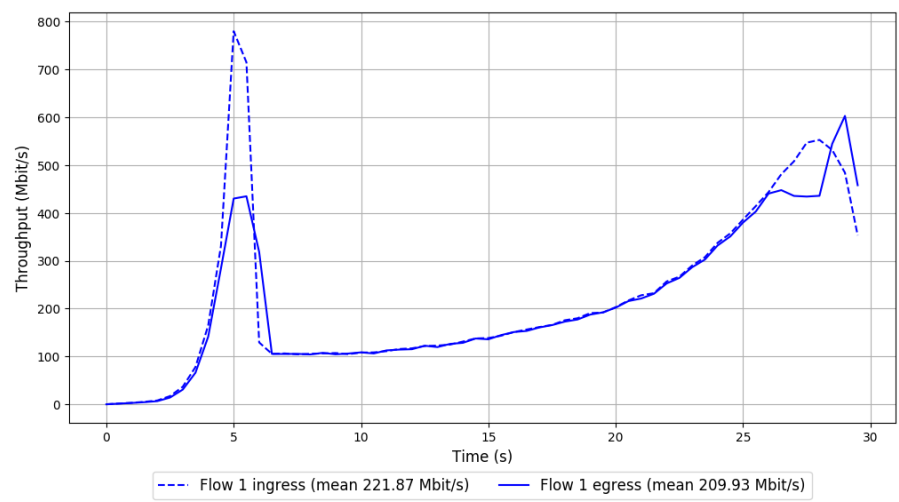
-- Flow 1:

Average throughput: 209.93 Mbit/s

95th percentile per-packet one-way delay: 260.760 ms

Loss rate: 5.39%

Run 3: Report of Vivace-loss — Data Link



Run 4: Statistics of Vivace-loss

Start at: 2018-04-10 07:56:25

End at: 2018-04-10 07:56:55

Below is generated by plot.py at 2018-04-10 11:33:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 199.08 Mbit/s

95th percentile per-packet one-way delay: 272.151 ms

Loss rate: 7.04%

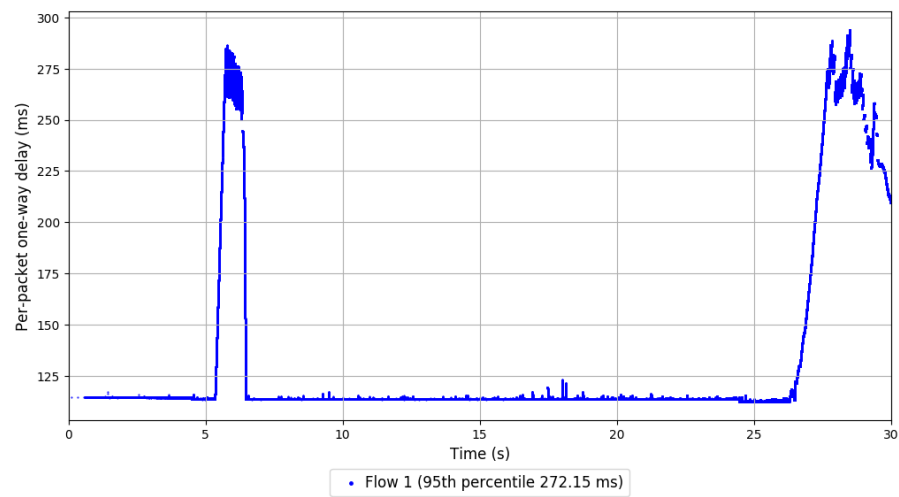
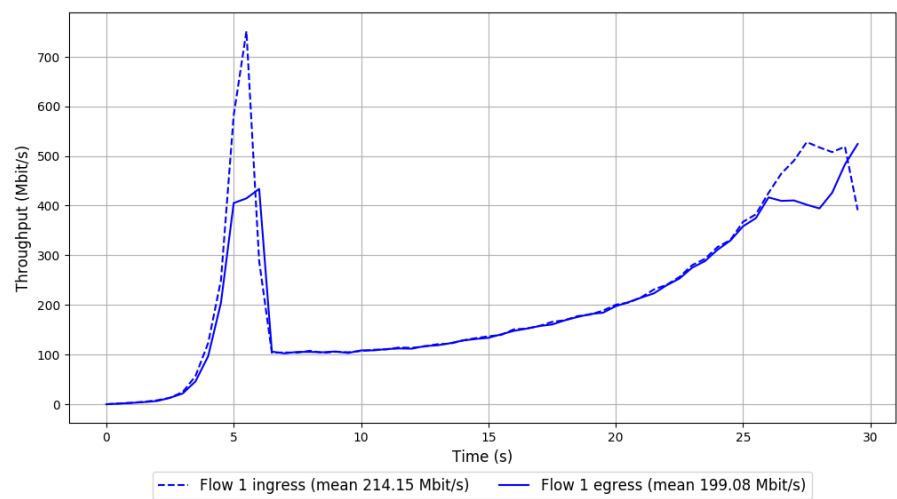
-- Flow 1:

Average throughput: 199.08 Mbit/s

95th percentile per-packet one-way delay: 272.151 ms

Loss rate: 7.04%

Run 4: Report of Vivace-loss — Data Link



Run 5: Statistics of Vivace-loss

Start at: 2018-04-10 08:11:20

End at: 2018-04-10 08:11:50

Below is generated by plot.py at 2018-04-10 11:33:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 167.11 Mbit/s

95th percentile per-packet one-way delay: 275.870 ms

Loss rate: 6.61%

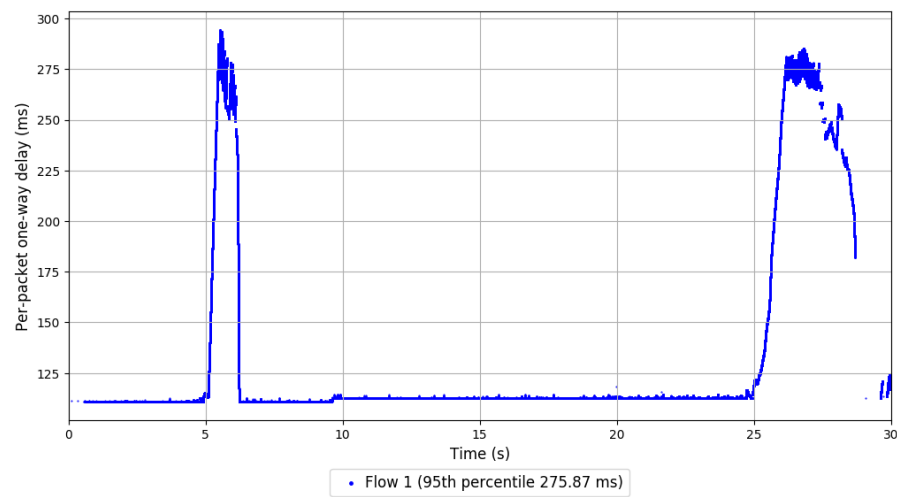
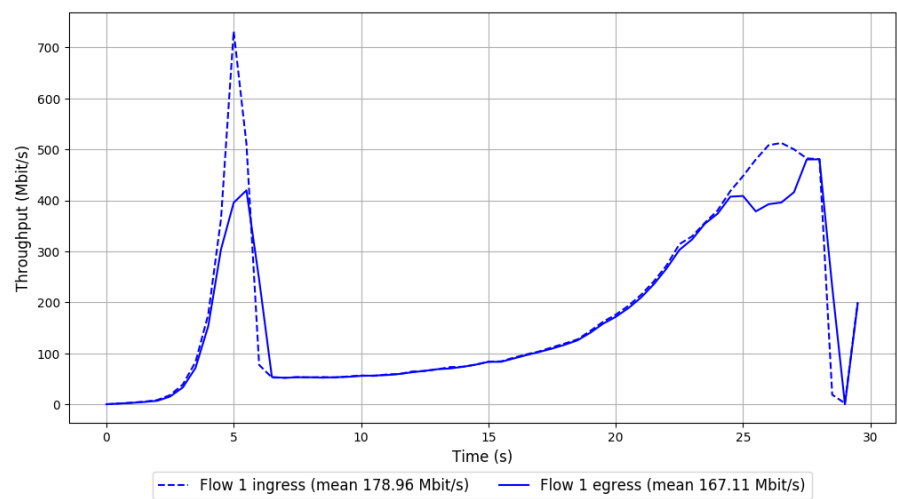
-- Flow 1:

Average throughput: 167.11 Mbit/s

95th percentile per-packet one-way delay: 275.870 ms

Loss rate: 6.61%

Run 5: Report of Vivace-loss — Data Link



Run 6: Statistics of Vivace-loss

Start at: 2018-04-10 08:25:54

End at: 2018-04-10 08:26:24

Below is generated by plot.py at 2018-04-10 11:34:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 178.24 Mbit/s

95th percentile per-packet one-way delay: 269.639 ms

Loss rate: 7.51%

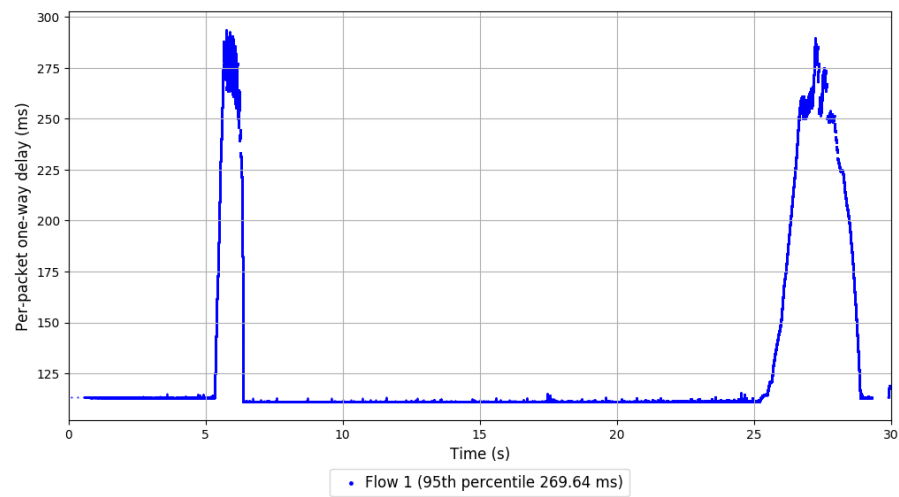
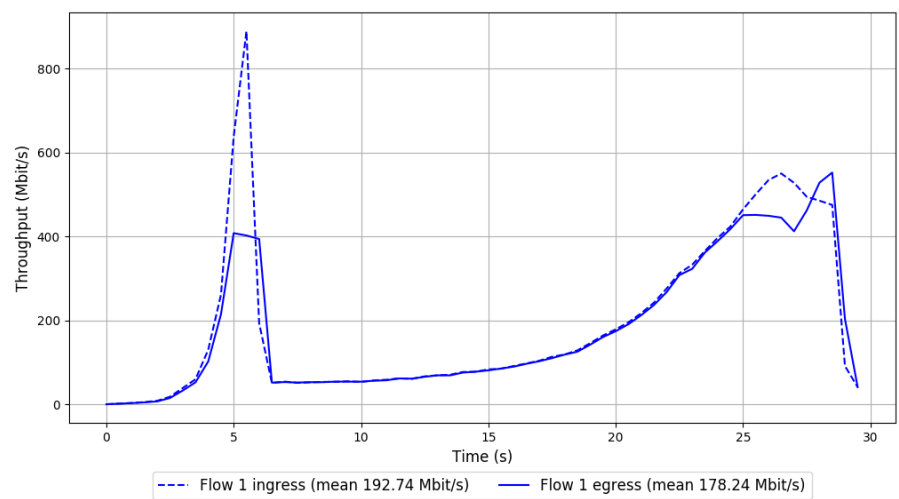
-- Flow 1:

Average throughput: 178.24 Mbit/s

95th percentile per-packet one-way delay: 269.639 ms

Loss rate: 7.51%

Run 6: Report of Vivace-loss — Data Link



Run 7: Statistics of Vivace-loss

Start at: 2018-04-10 08:40:54

End at: 2018-04-10 08:41:24

Below is generated by plot.py at 2018-04-10 11:37:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 351.58 Mbit/s

95th percentile per-packet one-way delay: 267.871 ms

Loss rate: 2.31%

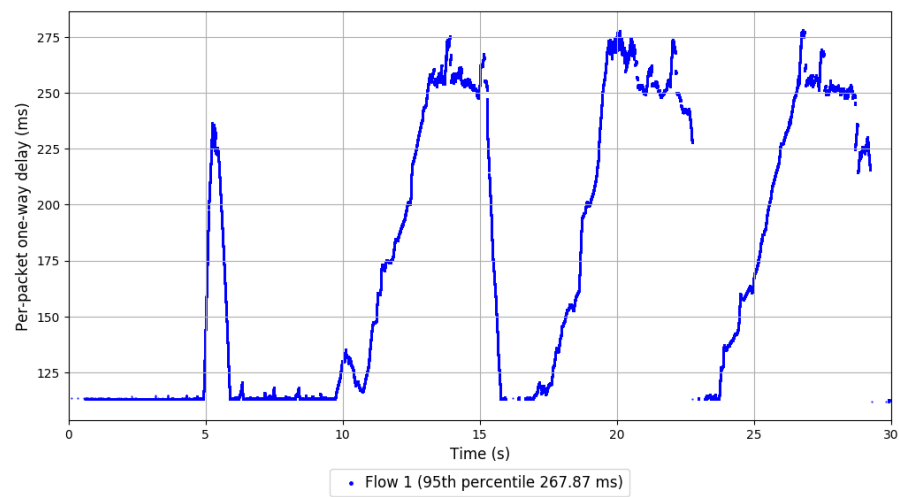
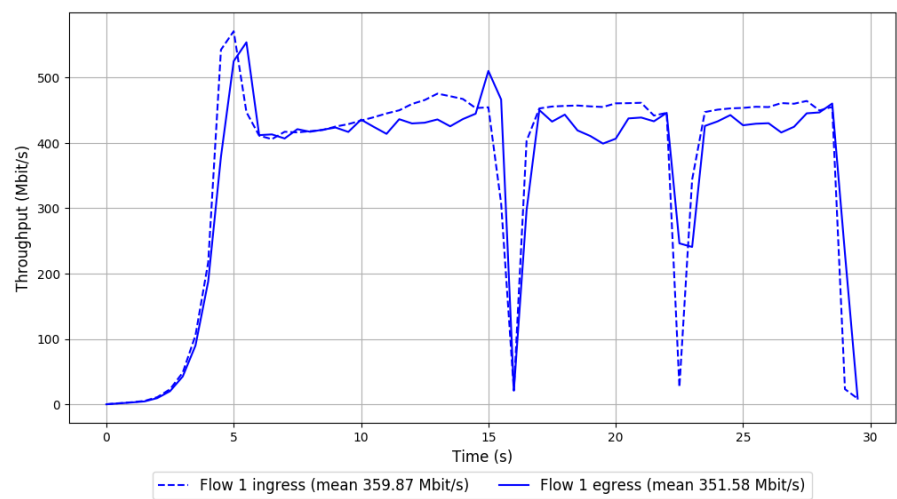
-- Flow 1:

Average throughput: 351.58 Mbit/s

95th percentile per-packet one-way delay: 267.871 ms

Loss rate: 2.31%

Run 7: Report of Vivace-loss — Data Link



Run 8: Statistics of Vivace-loss

Start at: 2018-04-10 08:56:33

End at: 2018-04-10 08:57:03

Below is generated by plot.py at 2018-04-10 11:37:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 250.11 Mbit/s

95th percentile per-packet one-way delay: 263.803 ms

Loss rate: 7.34%

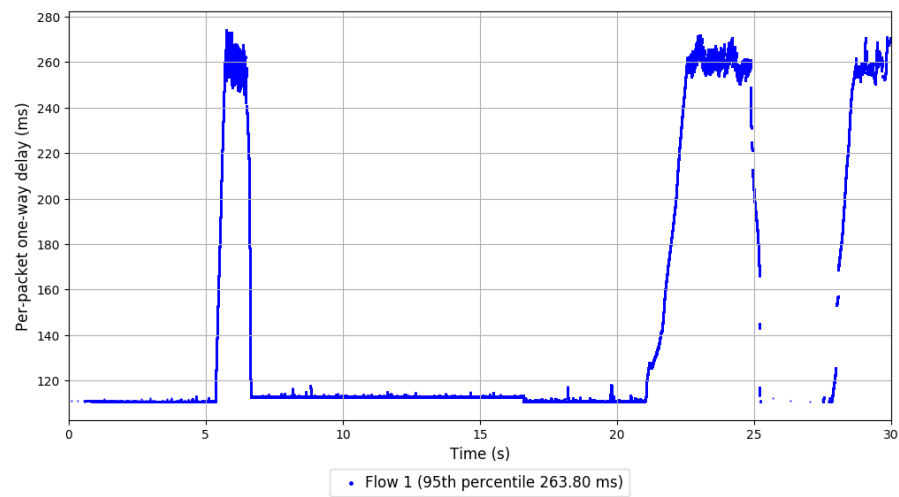
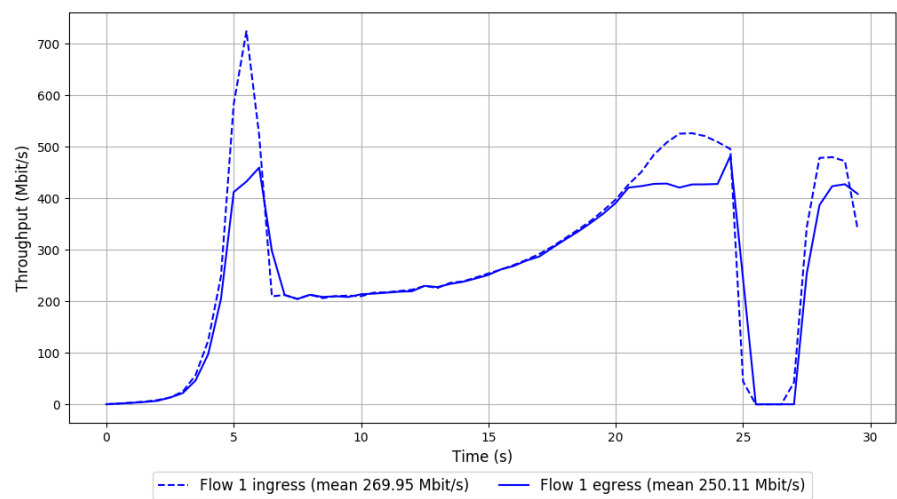
-- Flow 1:

Average throughput: 250.11 Mbit/s

95th percentile per-packet one-way delay: 263.803 ms

Loss rate: 7.34%

Run 8: Report of Vivace-loss — Data Link



Run 9: Statistics of Vivace-loss

Start at: 2018-04-10 09:11:33

End at: 2018-04-10 09:12:03

Below is generated by plot.py at 2018-04-10 11:38:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 322.60 Mbit/s

95th percentile per-packet one-way delay: 270.101 ms

Loss rate: 2.85%

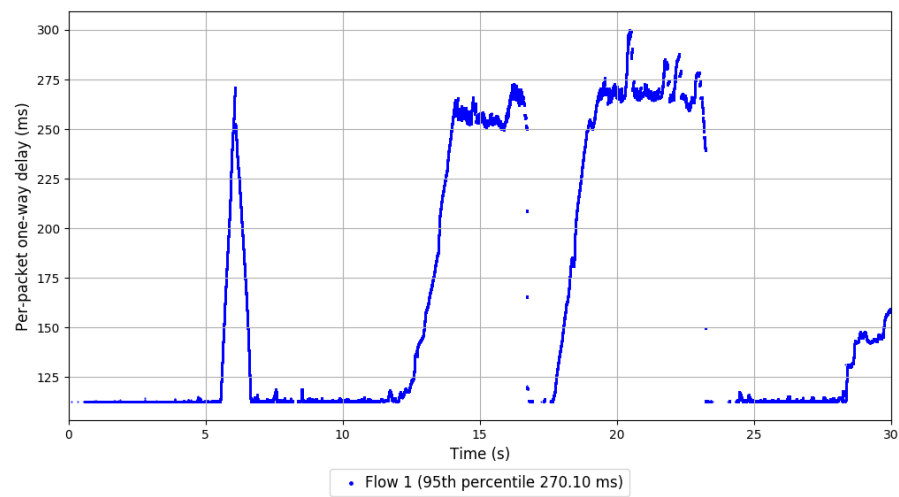
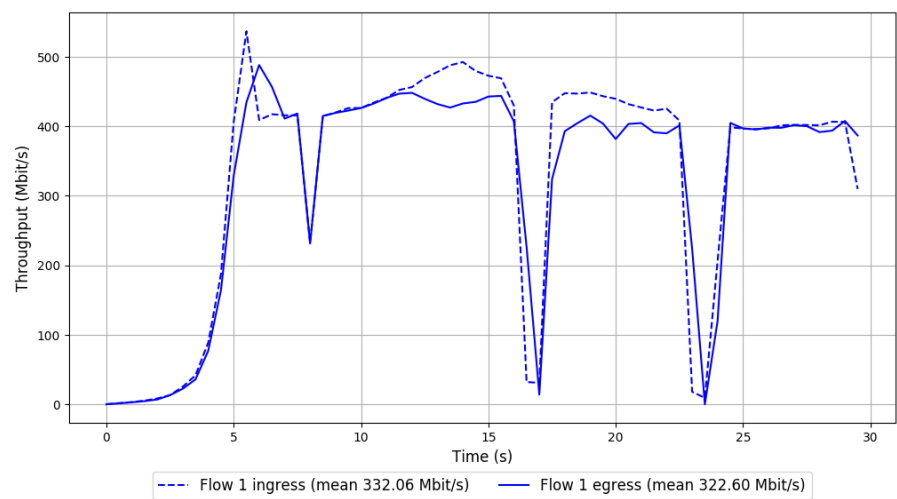
-- Flow 1:

Average throughput: 322.60 Mbit/s

95th percentile per-packet one-way delay: 270.101 ms

Loss rate: 2.85%

Run 9: Report of Vivace-loss — Data Link



Run 10: Statistics of Vivace-loss

Start at: 2018-04-10 09:26:49

End at: 2018-04-10 09:27:19

Below is generated by plot.py at 2018-04-10 11:38:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 335.11 Mbit/s

95th percentile per-packet one-way delay: 264.628 ms

Loss rate: 1.16%

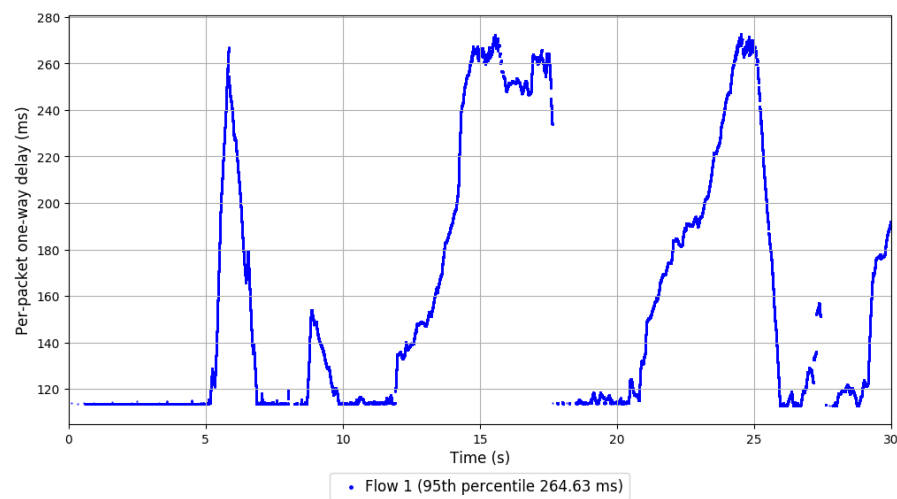
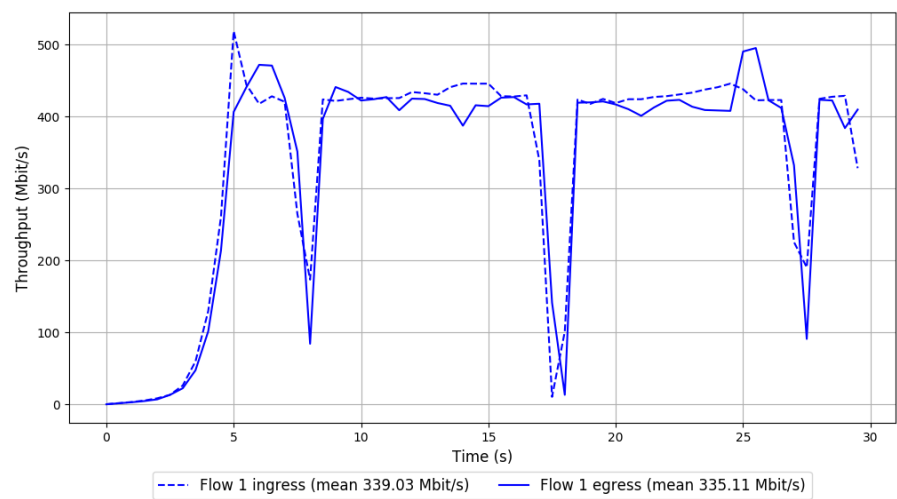
-- Flow 1:

Average throughput: 335.11 Mbit/s

95th percentile per-packet one-way delay: 264.628 ms

Loss rate: 1.16%

Run 10: Report of Vivace-loss — Data Link

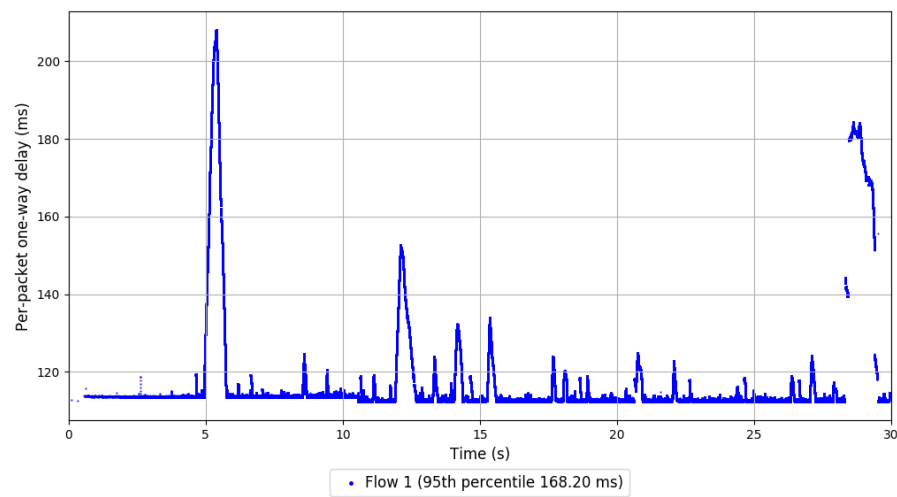
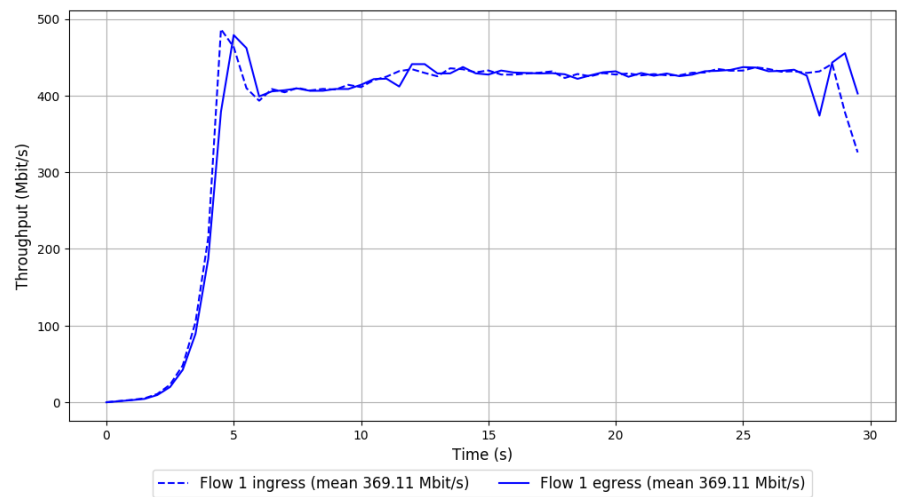


```
Run 1: Statistics of Vivace-LTE

Start at: 2018-04-10 07:13:49
End at: 2018-04-10 07:14:19

# Below is generated by plot.py at 2018-04-10 11:39:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 369.11 Mbit/s
95th percentile per-packet one-way delay: 168.198 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 369.11 Mbit/s
95th percentile per-packet one-way delay: 168.198 ms
Loss rate: 0.00%
```

Run 1: Report of Vivace-LTE — Data Link



Run 2: Statistics of Vivace-LTE

Start at: 2018-04-10 07:29:10

End at: 2018-04-10 07:29:40

Below is generated by plot.py at 2018-04-10 11:39:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 266.70 Mbit/s

95th percentile per-packet one-way delay: 185.997 ms

Loss rate: 0.00%

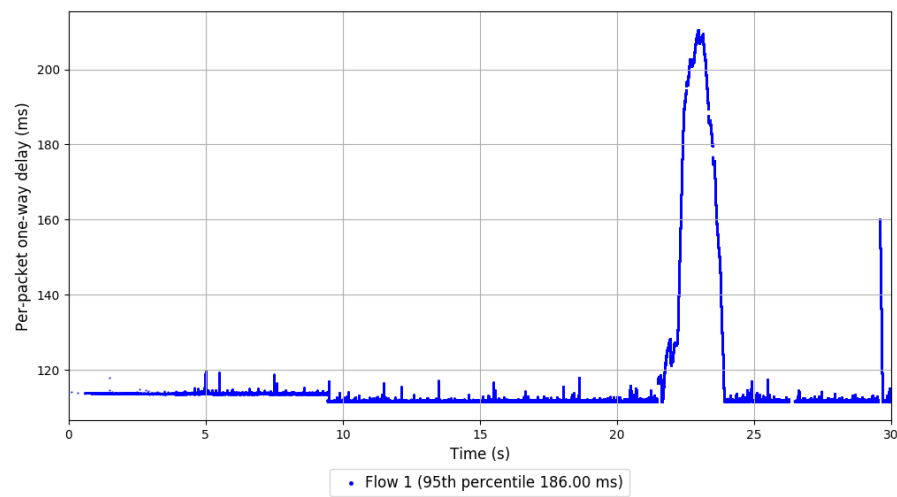
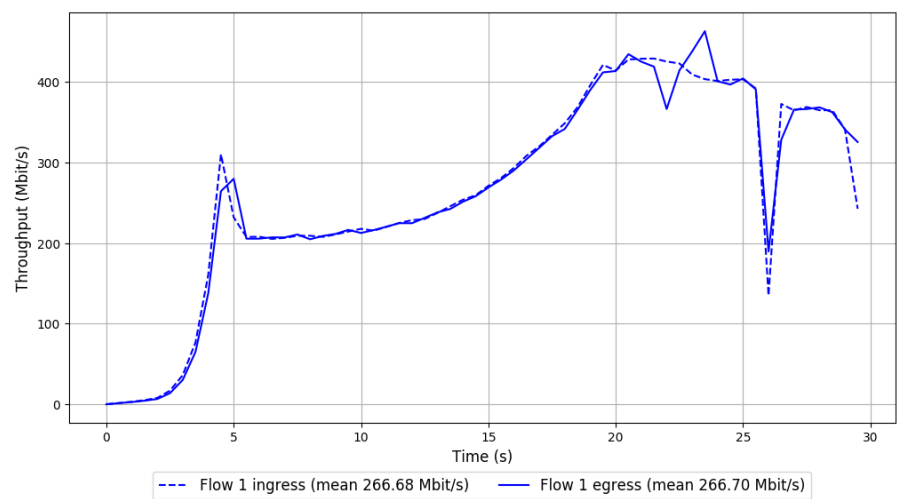
-- Flow 1:

Average throughput: 266.70 Mbit/s

95th percentile per-packet one-way delay: 185.997 ms

Loss rate: 0.00%

Run 2: Report of Vivace-LTE — Data Link



Run 3: Statistics of Vivace-LTE

Start at: 2018-04-10 07:44:15

End at: 2018-04-10 07:44:45

Below is generated by plot.py at 2018-04-10 11:39:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 358.58 Mbit/s

95th percentile per-packet one-way delay: 156.399 ms

Loss rate: 0.18%

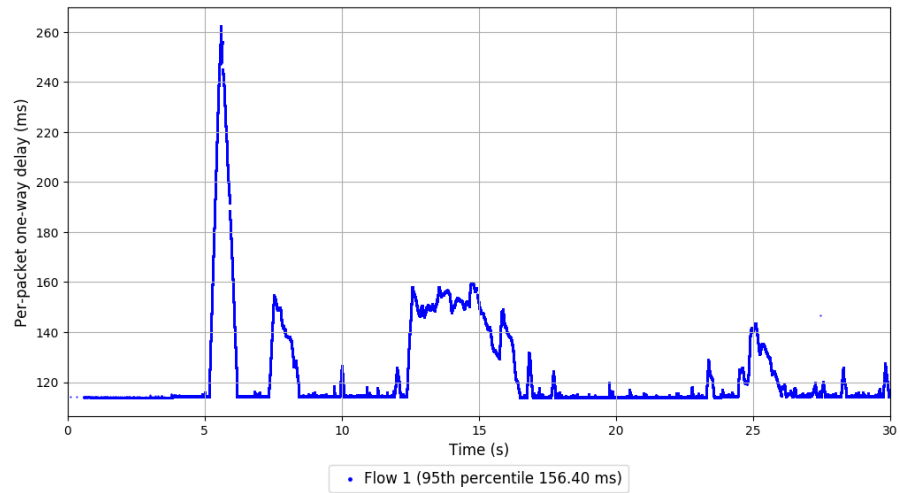
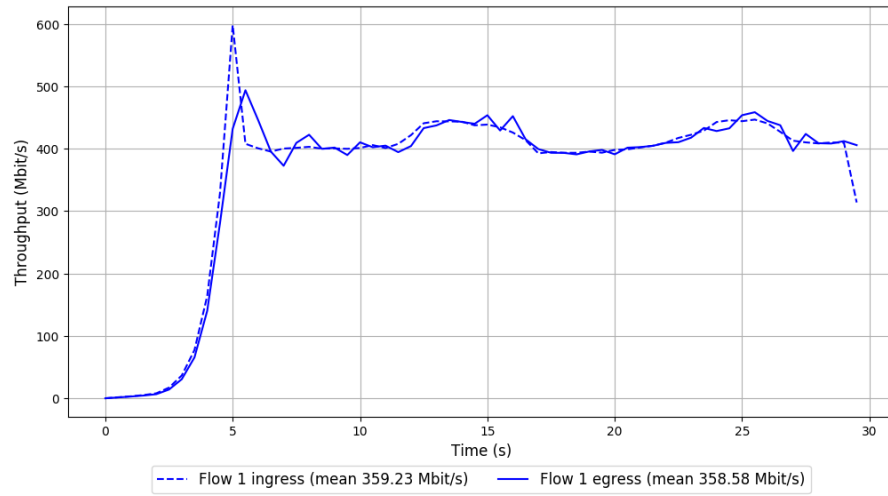
-- Flow 1:

Average throughput: 358.58 Mbit/s

95th percentile per-packet one-way delay: 156.399 ms

Loss rate: 0.18%

Run 3: Report of Vivace-LTE — Data Link



Run 4: Statistics of Vivace-LTE

Start at: 2018-04-10 07:59:16

End at: 2018-04-10 07:59:46

Below is generated by plot.py at 2018-04-10 11:39:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 255.59 Mbit/s

95th percentile per-packet one-way delay: 158.040 ms

Loss rate: 0.86%

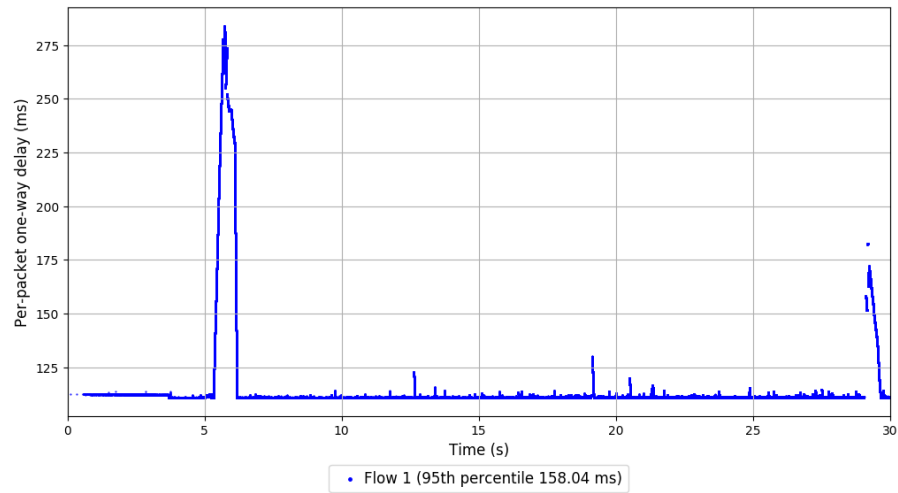
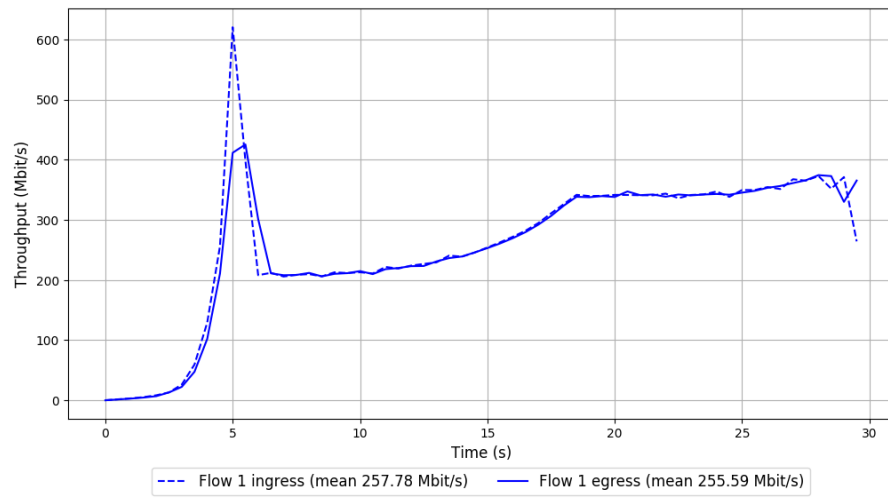
-- Flow 1:

Average throughput: 255.59 Mbit/s

95th percentile per-packet one-way delay: 158.040 ms

Loss rate: 0.86%

Run 4: Report of Vivace-LTE — Data Link



Run 5: Statistics of Vivace-LTE

Start at: 2018-04-10 08:14:12

End at: 2018-04-10 08:14:42

Below is generated by plot.py at 2018-04-10 11:41:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 358.67 Mbit/s

95th percentile per-packet one-way delay: 202.665 ms

Loss rate: 0.06%

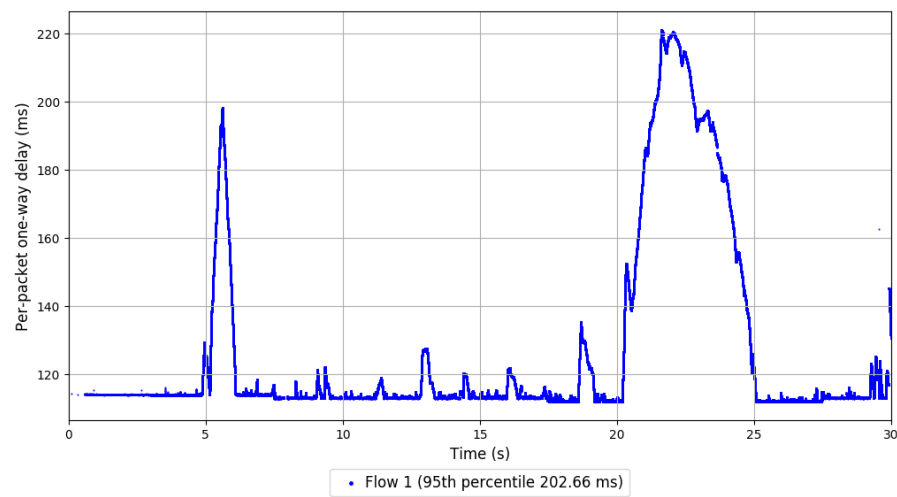
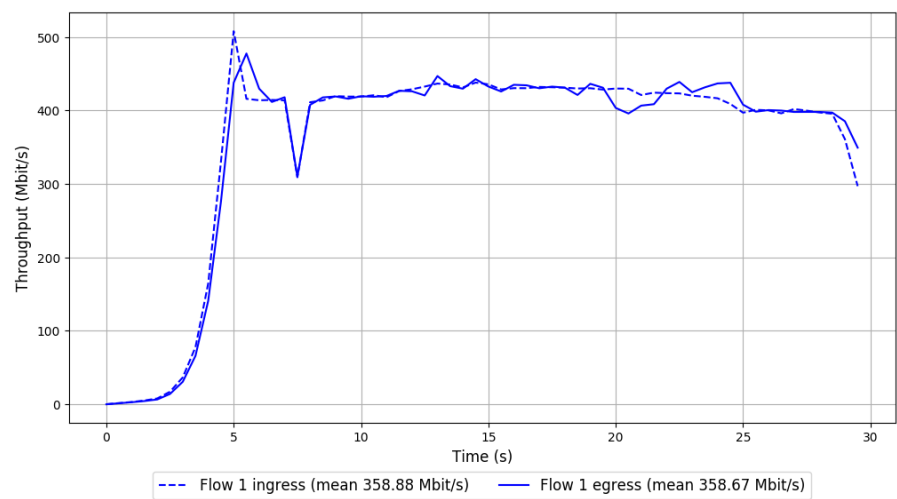
-- Flow 1:

Average throughput: 358.67 Mbit/s

95th percentile per-packet one-way delay: 202.665 ms

Loss rate: 0.06%

Run 5: Report of Vivace-LTE — Data Link



Run 6: Statistics of Vivace-LTE

Start at: 2018-04-10 08:28:51

End at: 2018-04-10 08:29:21

Below is generated by plot.py at 2018-04-10 11:41:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 279.06 Mbit/s

95th percentile per-packet one-way delay: 175.244 ms

Loss rate: 0.37%

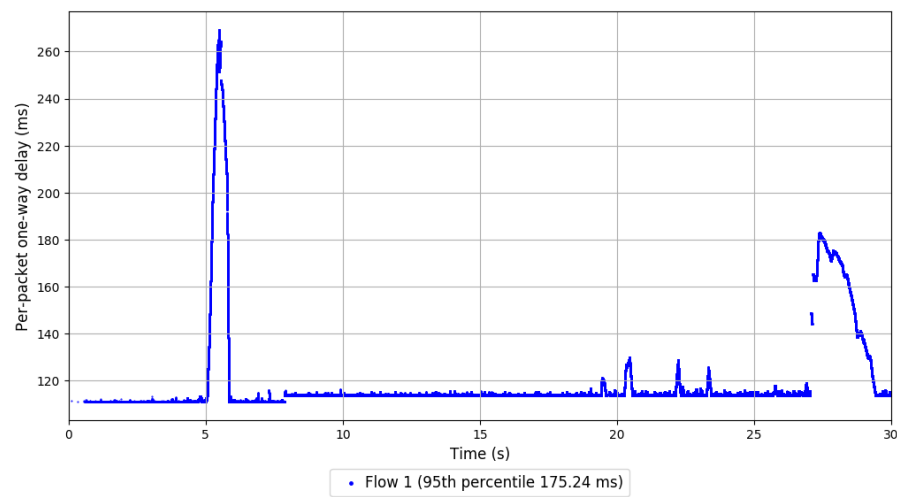
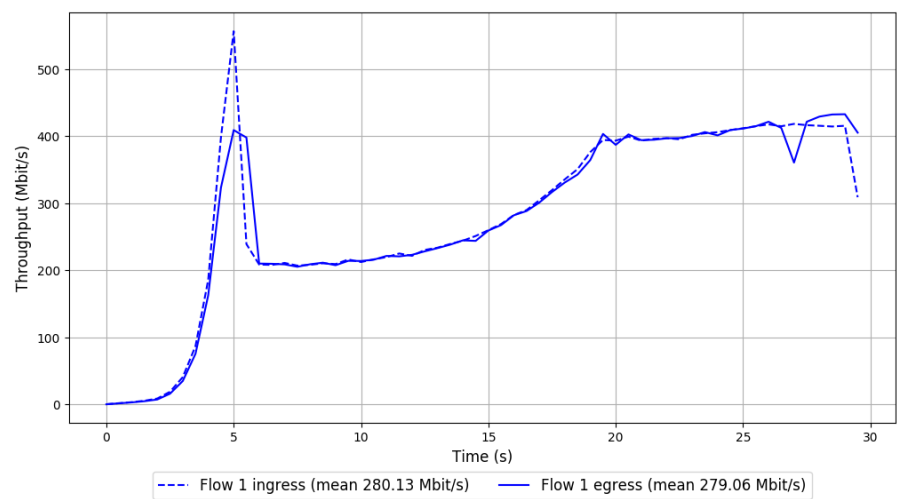
-- Flow 1:

Average throughput: 279.06 Mbit/s

95th percentile per-packet one-way delay: 175.244 ms

Loss rate: 0.37%

Run 6: Report of Vivace-LTE — Data Link



Run 7: Statistics of Vivace-LTE

Start at: 2018-04-10 08:44:08

End at: 2018-04-10 08:44:38

Below is generated by plot.py at 2018-04-10 11:41:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 364.95 Mbit/s

95th percentile per-packet one-way delay: 155.212 ms

Loss rate: 0.03%

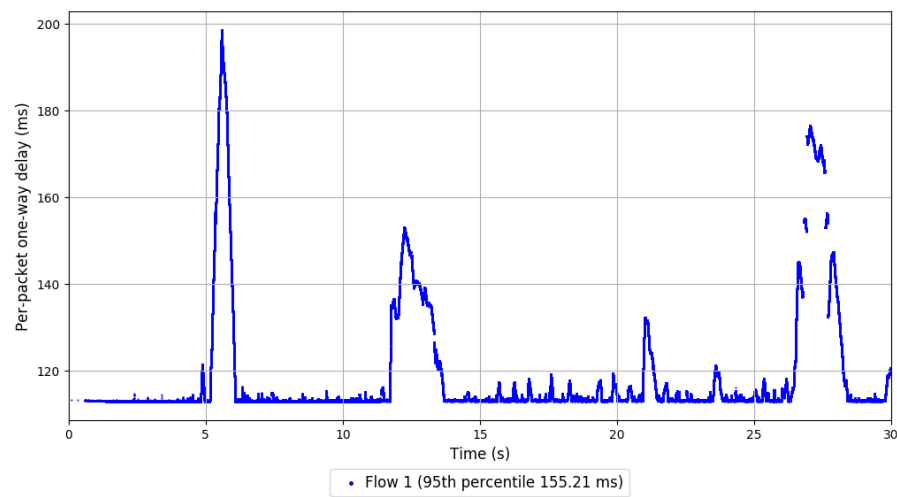
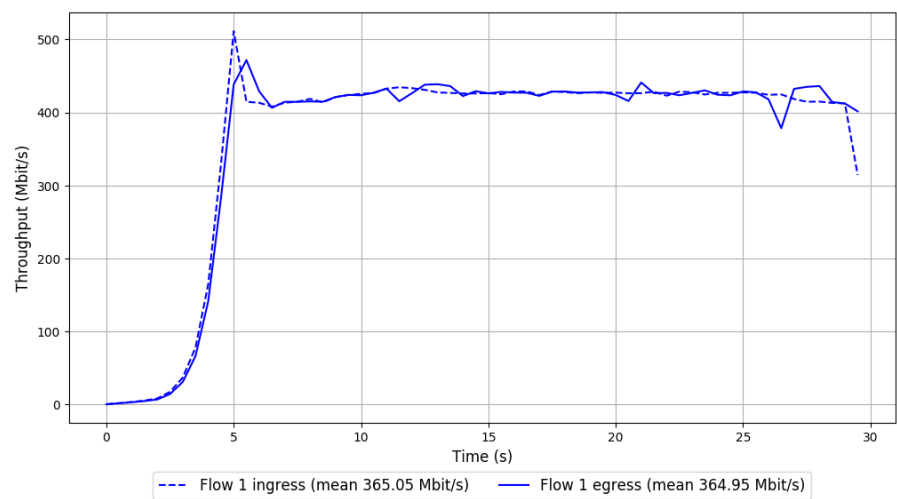
-- Flow 1:

Average throughput: 364.95 Mbit/s

95th percentile per-packet one-way delay: 155.212 ms

Loss rate: 0.03%

Run 7: Report of Vivace-LTE — Data Link



Run 8: Statistics of Vivace-LTE

Start at: 2018-04-10 08:59:36

End at: 2018-04-10 09:00:06

Below is generated by plot.py at 2018-04-10 11:41:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 177.98 Mbit/s

95th percentile per-packet one-way delay: 205.660 ms

Loss rate: 1.86%

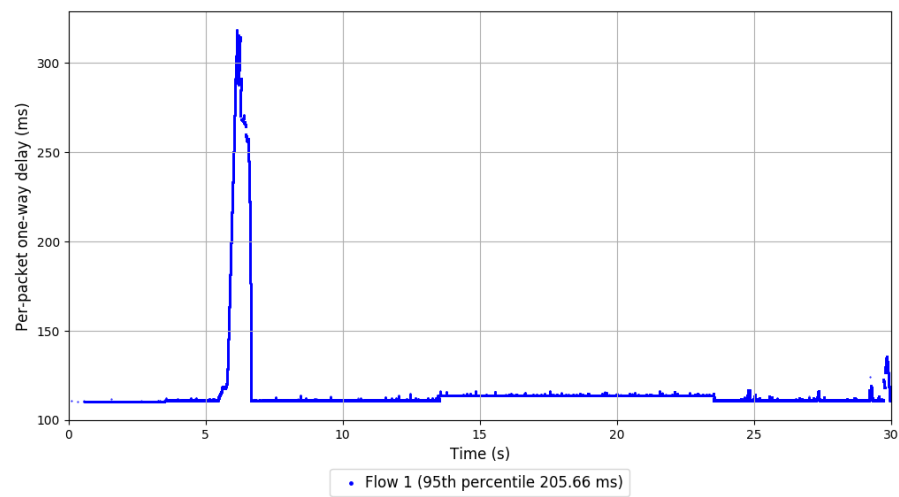
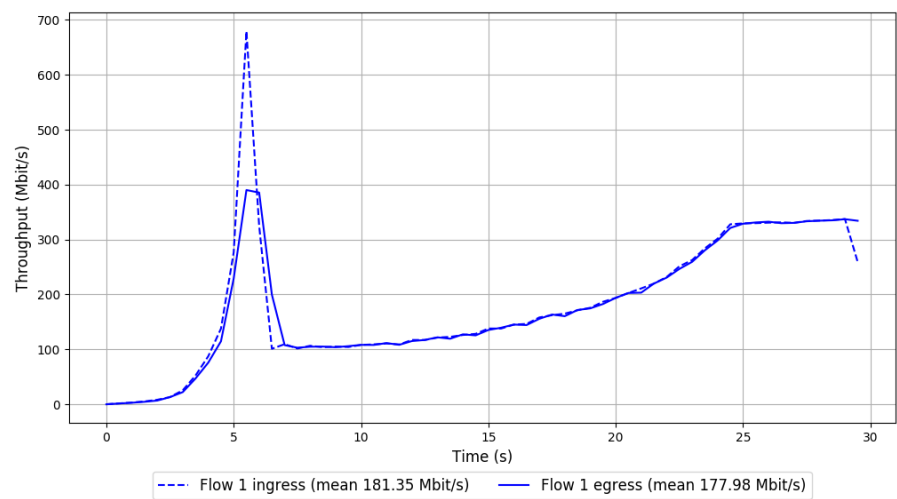
-- Flow 1:

Average throughput: 177.98 Mbit/s

95th percentile per-packet one-way delay: 205.660 ms

Loss rate: 1.86%

Run 8: Report of Vivace-LTE — Data Link



Run 9: Statistics of Vivace-LTE

Start at: 2018-04-10 09:14:42

End at: 2018-04-10 09:15:12

Below is generated by plot.py at 2018-04-10 11:41:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 289.84 Mbit/s

95th percentile per-packet one-way delay: 155.279 ms

Loss rate: 0.31%

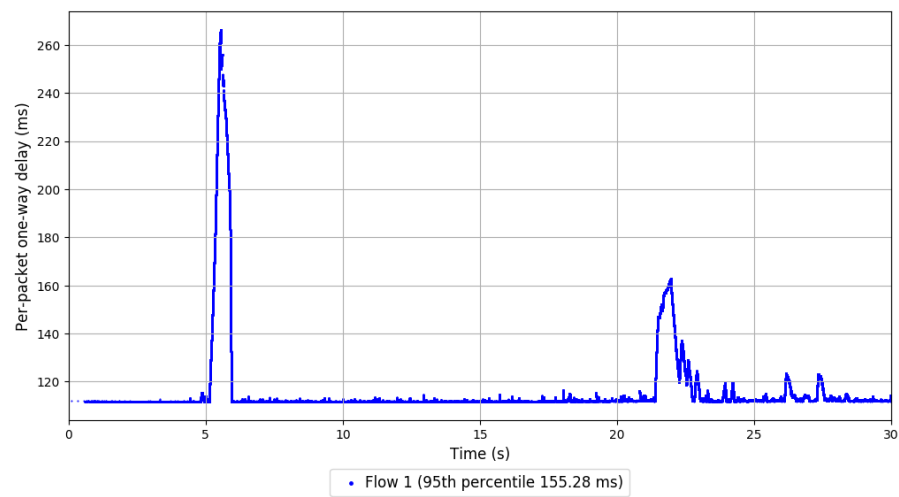
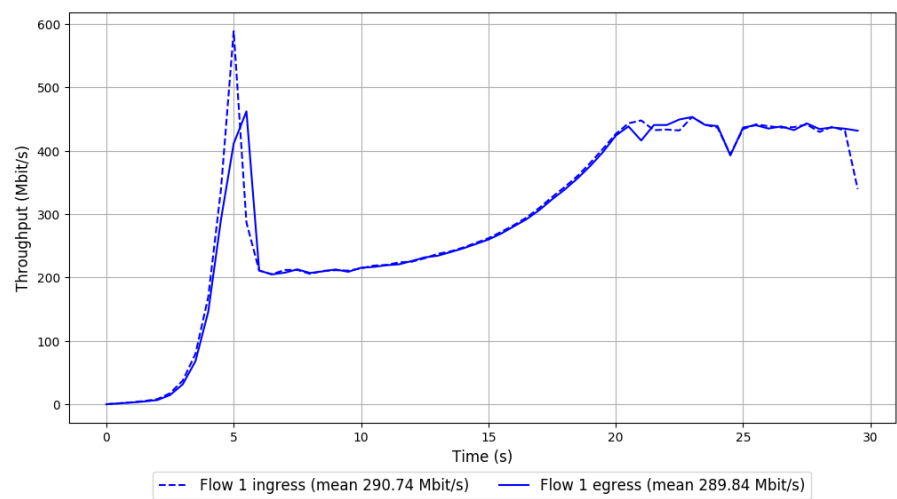
-- Flow 1:

Average throughput: 289.84 Mbit/s

95th percentile per-packet one-way delay: 155.279 ms

Loss rate: 0.31%

Run 9: Report of Vivace-LTE — Data Link



```
Run 10: Statistics of Vivace-LTE

Start at: 2018-04-10 09:29:59
End at: 2018-04-10 09:30:29

# Below is generated by plot.py at 2018-04-10 11:41:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 331.58 Mbit/s
95th percentile per-packet one-way delay: 215.171 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 331.58 Mbit/s
95th percentile per-packet one-way delay: 215.171 ms
Loss rate: 0.30%
```

Run 10: Report of Vivace-LTE — Data Link

