

Pantheon Report

Generated at 2018-06-30 04:13:56 (UTC).

Data path: GCE London Ethernet (*remote*) → GCE Tokyo Ethernet (*local*).

Repeated the test of 17 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

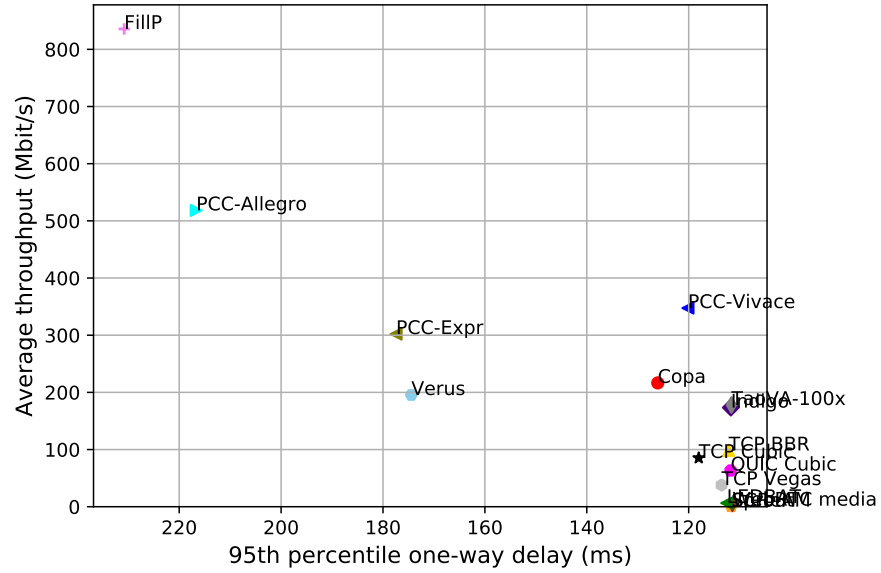
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

NTP offsets were measured against `time.google.com` and have been applied to correct the timestamps in logs.

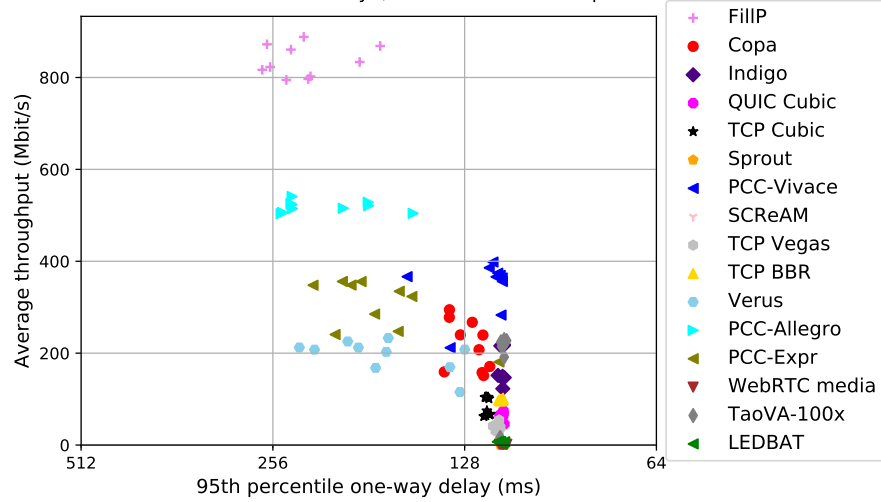
Git summary:

```
branch: master @ 715dc5f09d172e419699f6f17f1cb4c45064f212
third_party/fillp @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/fillp-sheep @ 30060ab034deb3424347f5cc3db86198eac35d2a
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf5e58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ 6f038ed31259d366f9840f65b82cbe8f464b1b39
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/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quirk @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
  M src/ScreamClient
  M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webRTC @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
```

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



test from GCE London to GCE Tokyo, 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	98.40	112.14	0.76
Copa	10	216.57	126.07	0.94
TCP Cubic	10	85.27	118.03	0.90
FillP	10	835.68	230.80	2.33
FillP-Sheep	0	N/A	N/A	N/A
Indigo	10	173.38	111.73	0.79
LEDBAT	10	6.38	112.53	1.62
PCC-Allegro	10	518.31	216.66	2.27
PCC-Expr	10	302.00	177.44	1.47
QUIC Cubic	7	63.33	111.77	0.98
SCReAM	10	0.21	111.54	0.77
Sprout	10	0.20	111.65	0.72
TaoVA-100x	10	177.96	111.62	0.78
TCP Vegas	10	37.87	113.55	0.78
Verus	10	195.38	174.44	1.10
PCC-Vivace	10	347.47	120.15	1.15
WebRTC media	10	1.85	111.43	0.87

Run 1: Statistics of TCP BBR

Start at: 2018-06-29 23:23:15

End at: 2018-06-29 23:23:45

Local clock offset: 0.15 ms

Remote clock offset: 0.002 ms

Below is generated by plot.py at 2018-06-30 02:57:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.73 Mbit/s

95th percentile per-packet one-way delay: 111.755 ms

Loss rate: 0.75%

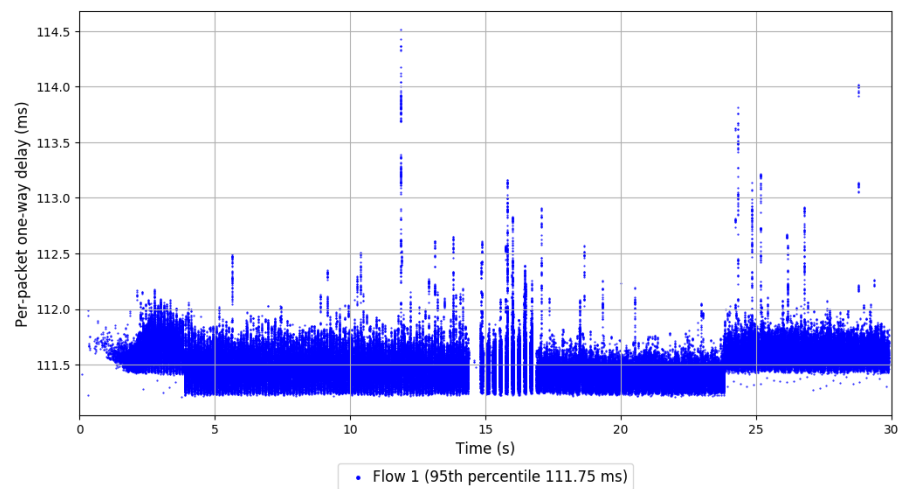
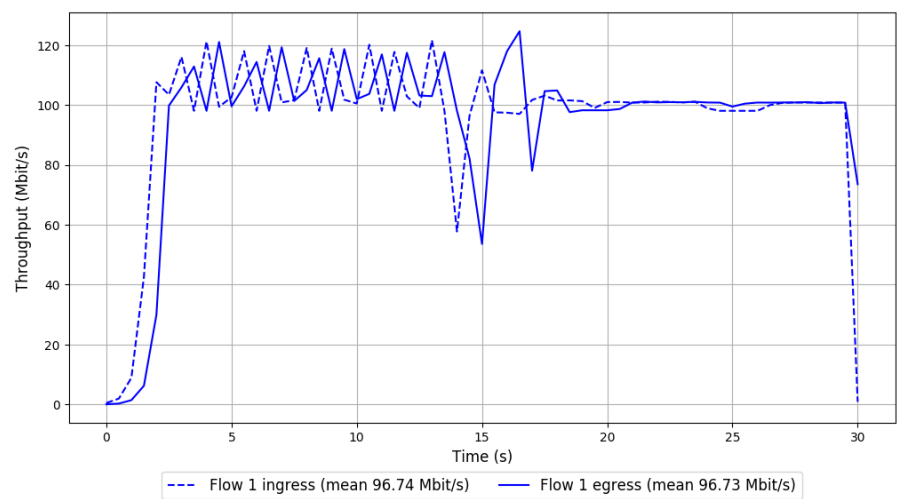
-- Flow 1:

Average throughput: 96.73 Mbit/s

95th percentile per-packet one-way delay: 111.755 ms

Loss rate: 0.75%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-06-29 23:45:48

End at: 2018-06-29 23:46:18

Local clock offset: 0.25 ms

Remote clock offset: 0.426 ms

Below is generated by plot.py at 2018-06-30 02:57:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 98.51 Mbit/s

95th percentile per-packet one-way delay: 111.409 ms

Loss rate: 0.73%

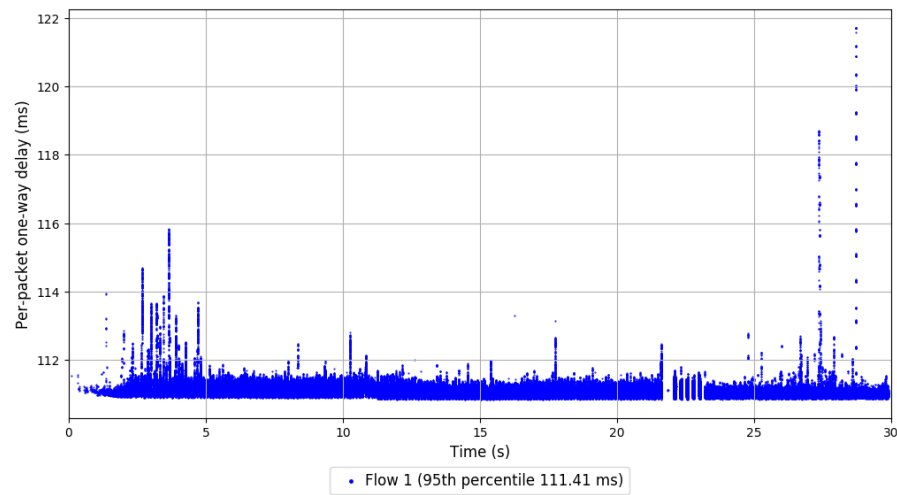
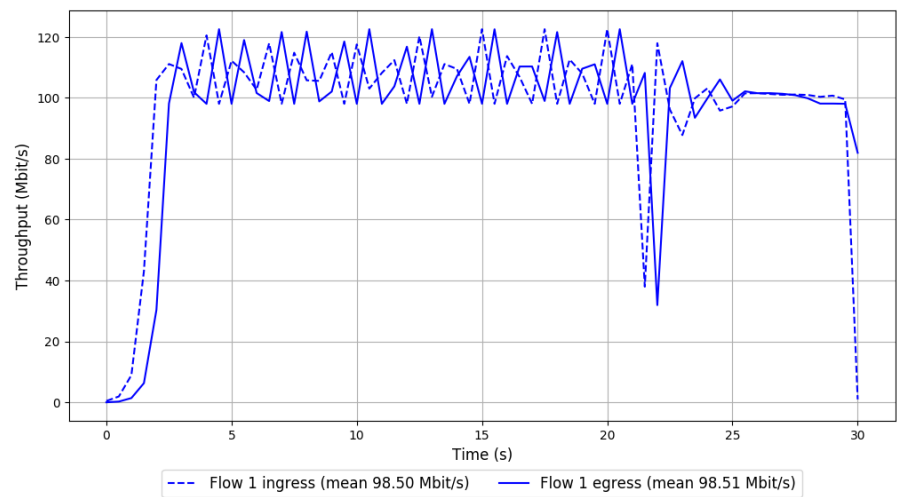
-- Flow 1:

Average throughput: 98.51 Mbit/s

95th percentile per-packet one-way delay: 111.409 ms

Loss rate: 0.73%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-06-30 00:07:51

End at: 2018-06-30 00:08:21

Local clock offset: 1.273 ms

Remote clock offset: 0.107 ms

Below is generated by plot.py at 2018-06-30 02:57:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.52 Mbit/s

95th percentile per-packet one-way delay: 112.697 ms

Loss rate: 0.85%

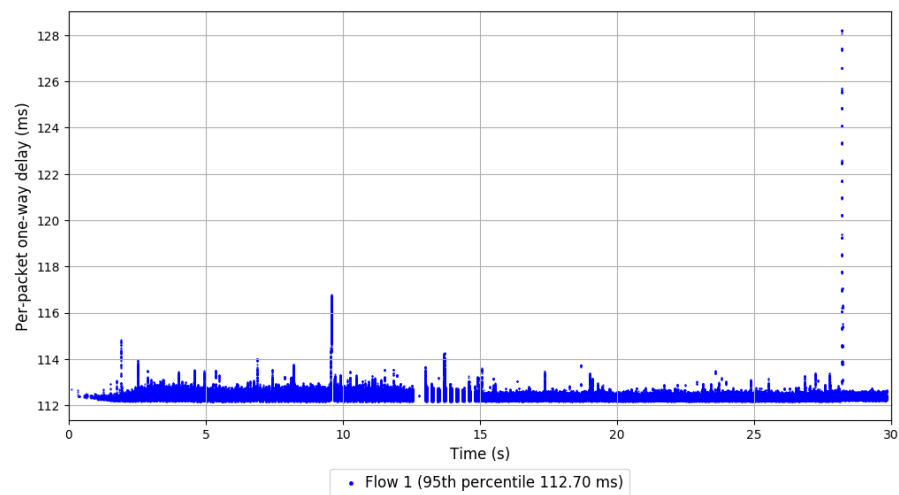
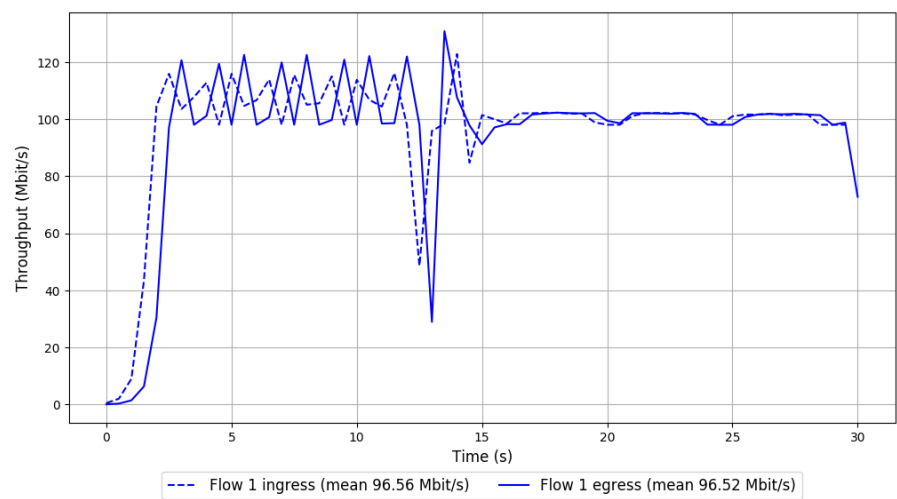
-- Flow 1:

Average throughput: 96.52 Mbit/s

95th percentile per-packet one-way delay: 112.697 ms

Loss rate: 0.85%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-06-30 00:29:51

End at: 2018-06-30 00:30:21

Local clock offset: 0.027 ms

Remote clock offset: 0.065 ms

Below is generated by plot.py at 2018-06-30 02:57:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 101.88 Mbit/s

95th percentile per-packet one-way delay: 111.412 ms

Loss rate: 0.75%

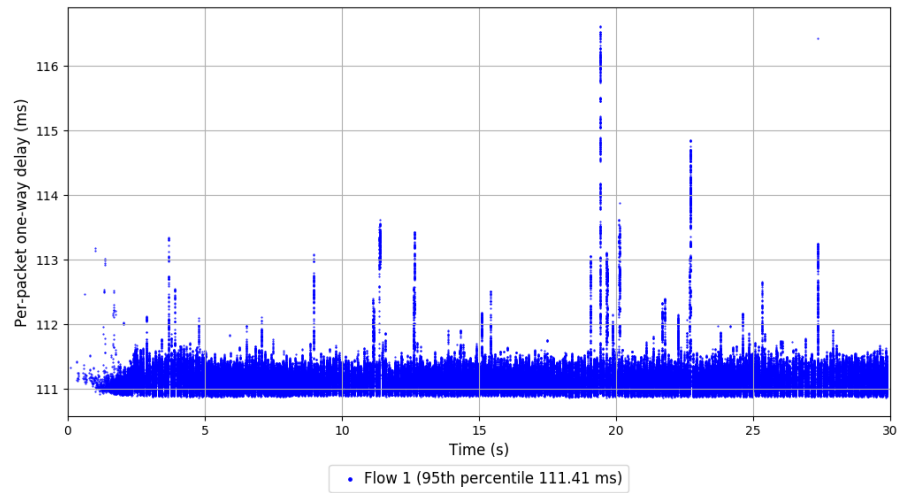
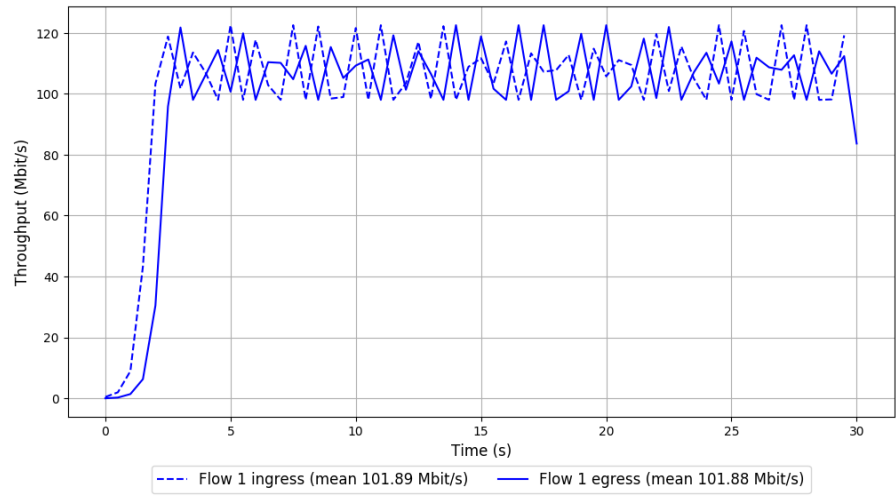
-- Flow 1:

Average throughput: 101.88 Mbit/s

95th percentile per-packet one-way delay: 111.412 ms

Loss rate: 0.75%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-06-30 00:52:12

End at: 2018-06-30 00:52:42

Local clock offset: 0.137 ms

Remote clock offset: 0.463 ms

Below is generated by plot.py at 2018-06-30 02:57:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.72 Mbit/s

95th percentile per-packet one-way delay: 112.256 ms

Loss rate: 0.83%

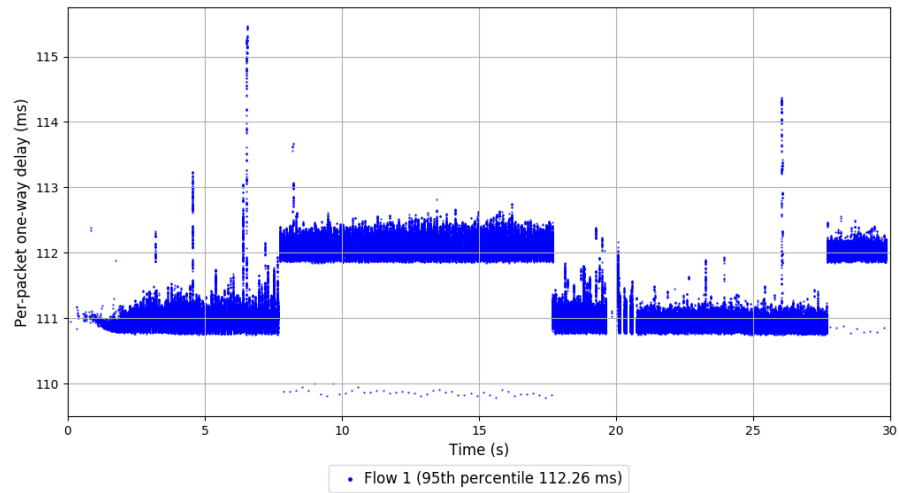
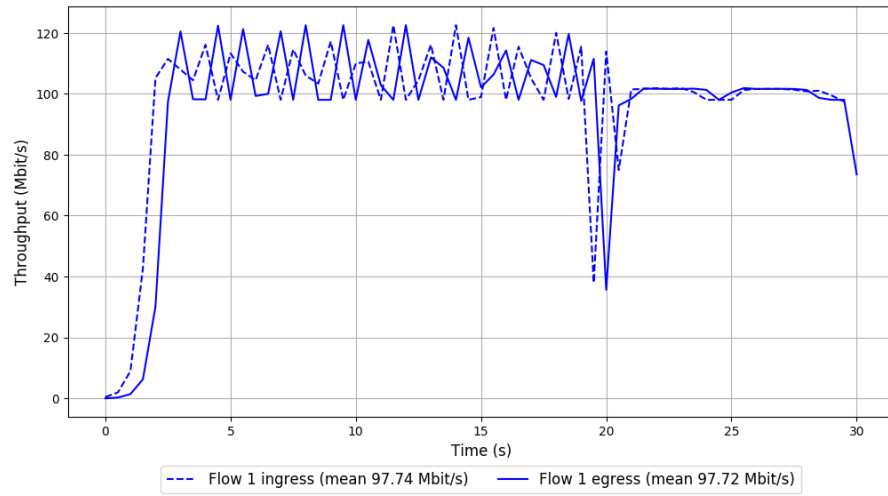
-- Flow 1:

Average throughput: 97.72 Mbit/s

95th percentile per-packet one-way delay: 112.256 ms

Loss rate: 0.83%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-06-30 01:14:24

End at: 2018-06-30 01:14:54

Local clock offset: -0.001 ms

Remote clock offset: 0.05 ms

Below is generated by plot.py at 2018-06-30 02:57:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 99.17 Mbit/s

95th percentile per-packet one-way delay: 112.372 ms

Loss rate: 0.73%

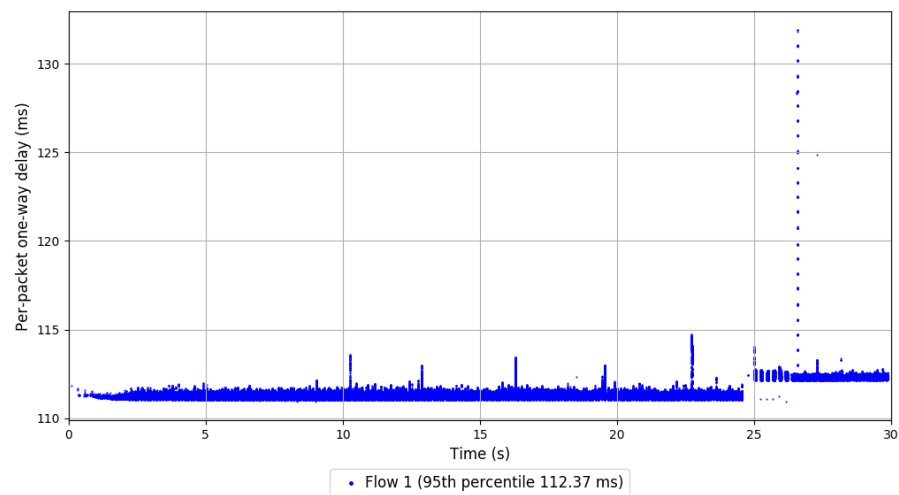
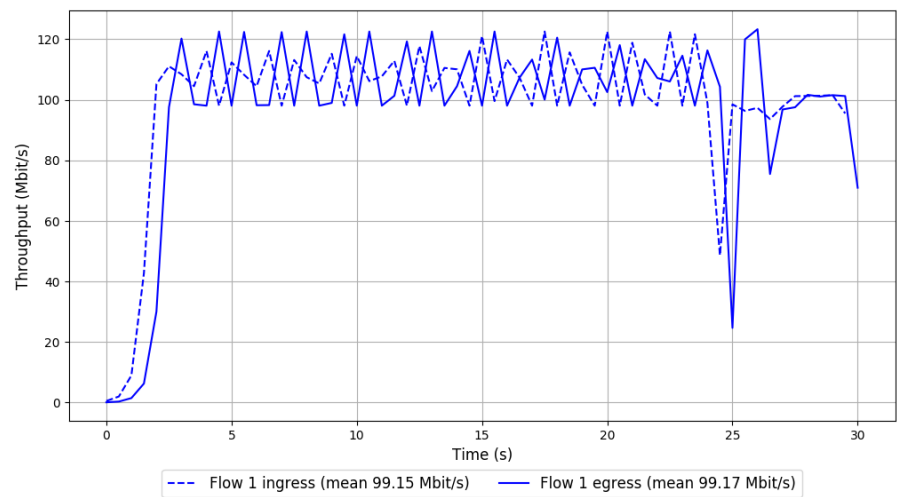
-- Flow 1:

Average throughput: 99.17 Mbit/s

95th percentile per-packet one-way delay: 112.372 ms

Loss rate: 0.73%

Run 6: Report of TCP BBR — Data Link

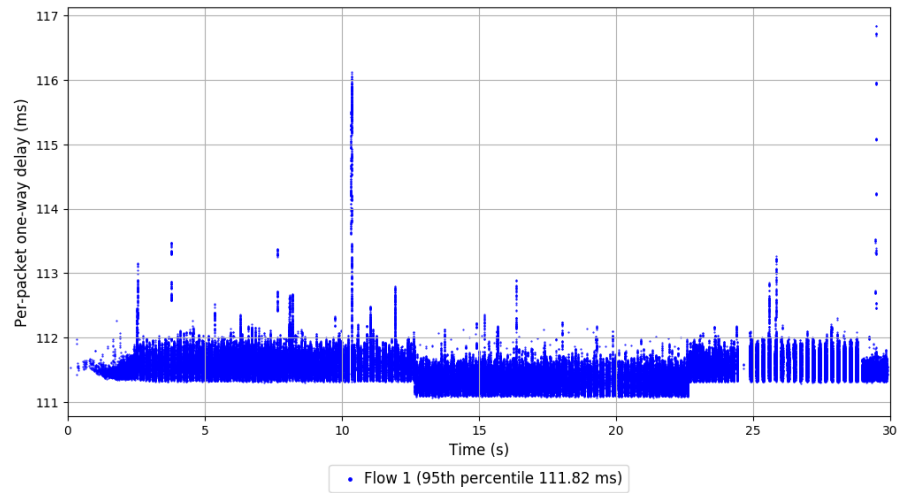
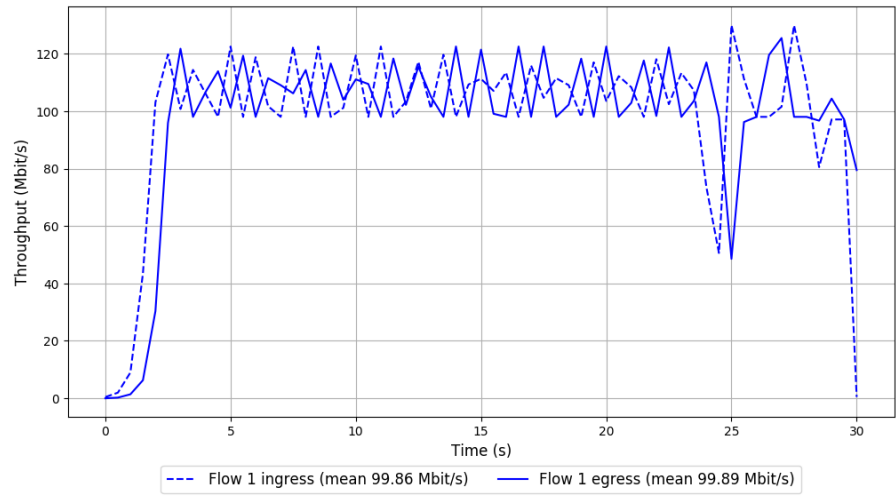


Run 7: Statistics of TCP BBR

Start at: 2018-06-30 01:36:57
End at: 2018-06-30 01:37:27
Local clock offset: 0.279 ms
Remote clock offset: -0.005 ms

Below is generated by plot.py at 2018-06-30 02:57:21
Datalink statistics
-- Total of 1 flow:
Average throughput: 99.89 Mbit/s
95th percentile per-packet one-way delay: 111.819 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 99.89 Mbit/s
95th percentile per-packet one-way delay: 111.819 ms
Loss rate: 0.71%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-06-30 01:59:37

End at: 2018-06-30 02:00:07

Local clock offset: 0.092 ms

Remote clock offset: -0.383 ms

Below is generated by plot.py at 2018-06-30 02:57:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 99.22 Mbit/s

95th percentile per-packet one-way delay: 112.362 ms

Loss rate: 0.74%

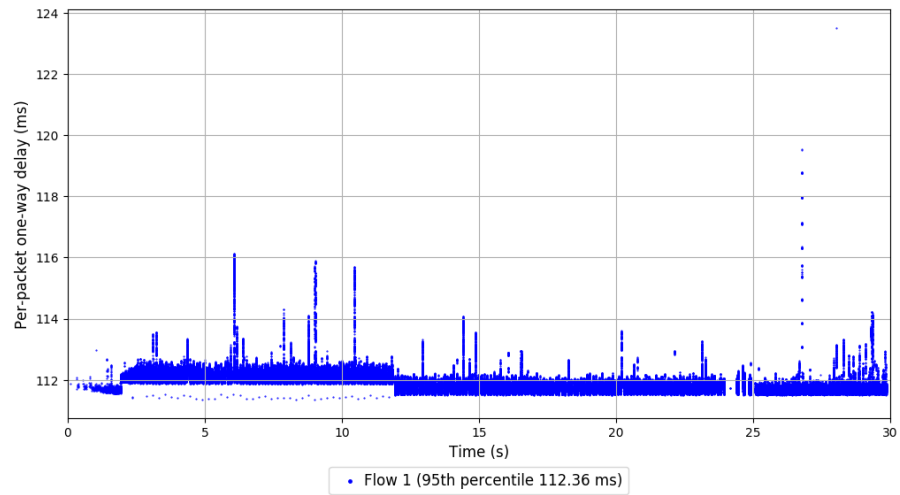
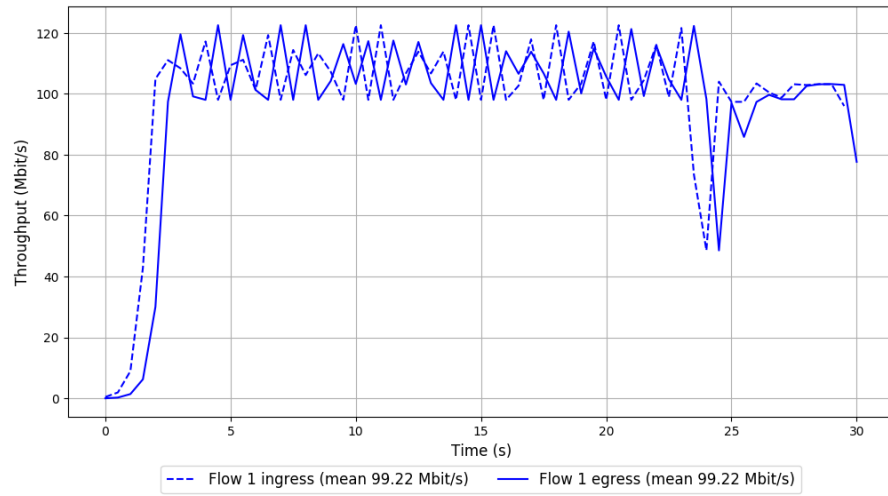
-- Flow 1:

Average throughput: 99.22 Mbit/s

95th percentile per-packet one-way delay: 112.362 ms

Loss rate: 0.74%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-06-30 02:21:58

End at: 2018-06-30 02:22:28

Local clock offset: -0.085 ms

Remote clock offset: -0.393 ms

Below is generated by plot.py at 2018-06-30 02:58:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.24 Mbit/s

95th percentile per-packet one-way delay: 112.195 ms

Loss rate: 0.75%

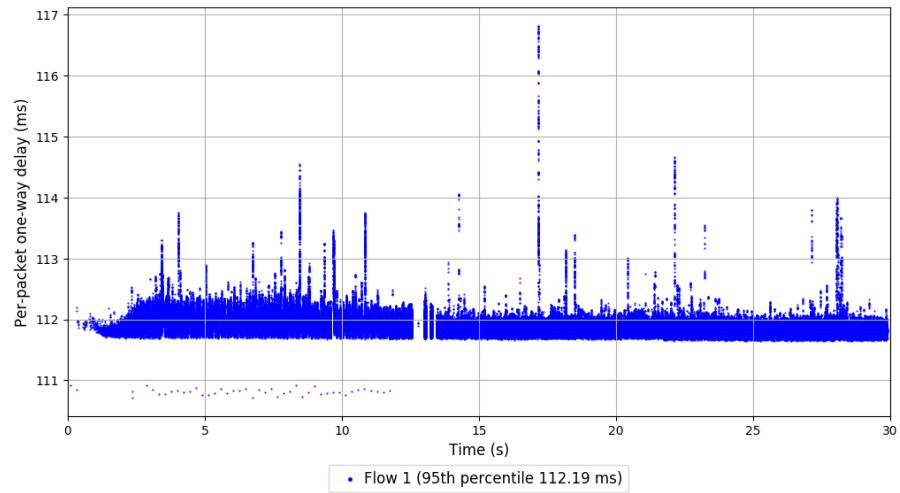
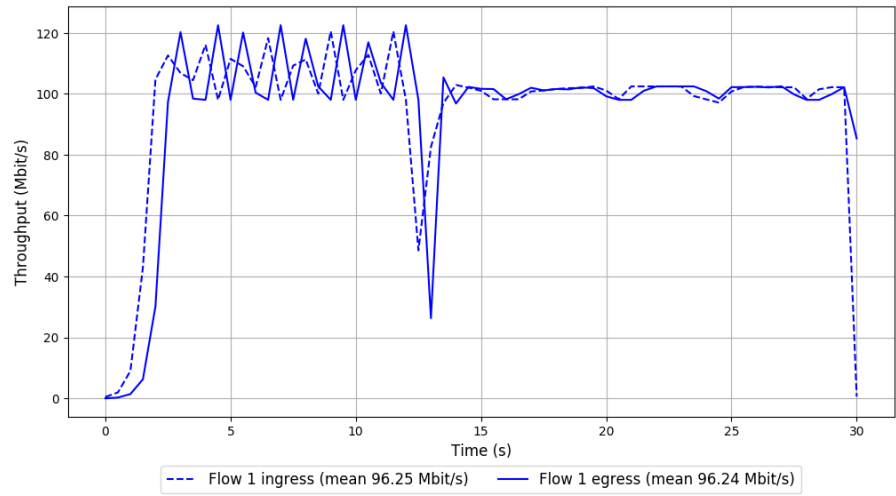
-- Flow 1:

Average throughput: 96.24 Mbit/s

95th percentile per-packet one-way delay: 112.195 ms

Loss rate: 0.75%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-06-30 02:44:08

End at: 2018-06-30 02:44:38

Local clock offset: 1.354 ms

Remote clock offset: 0.019 ms

Below is generated by plot.py at 2018-06-30 02:58:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 98.10 Mbit/s

95th percentile per-packet one-way delay: 113.166 ms

Loss rate: 0.79%

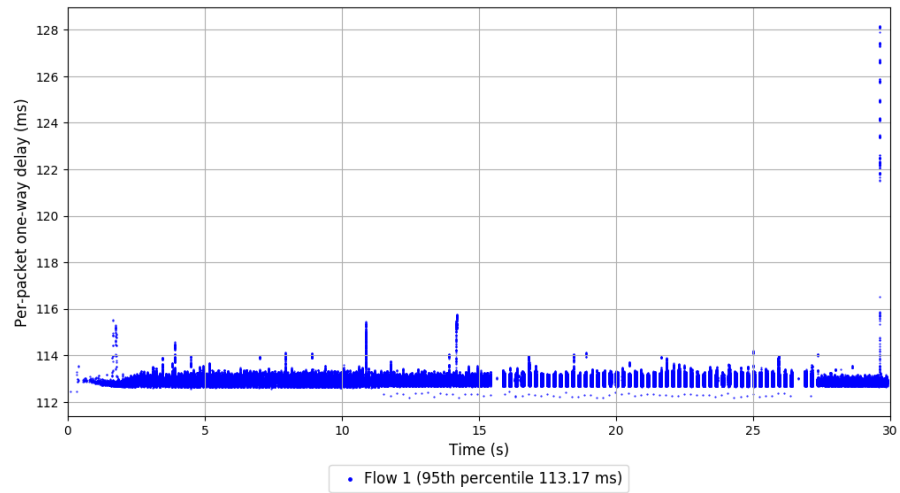
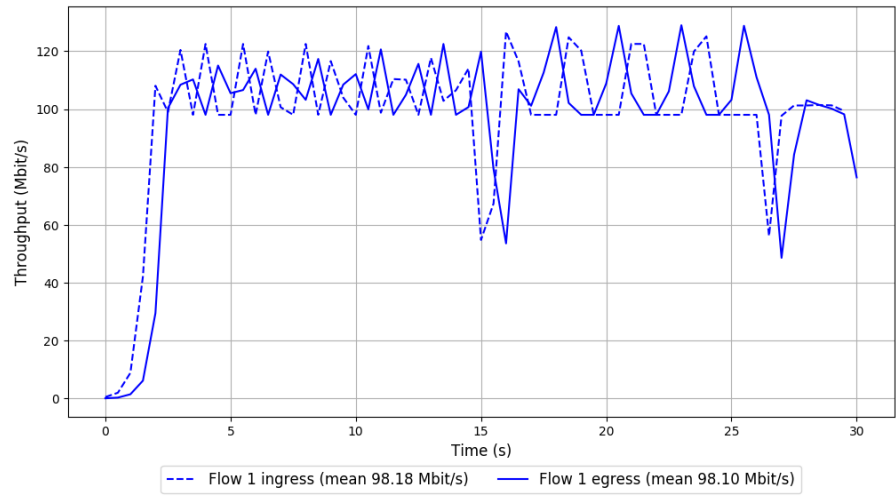
-- Flow 1:

Average throughput: 98.10 Mbit/s

95th percentile per-packet one-way delay: 113.166 ms

Loss rate: 0.79%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2018-06-29 23:13:31

End at: 2018-06-29 23:14:01

Local clock offset: -0.255 ms

Remote clock offset: 0.03 ms

Below is generated by plot.py at 2018-06-30 03:01:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 171.04 Mbit/s

95th percentile per-packet one-way delay: 116.882 ms

Loss rate: 0.72%

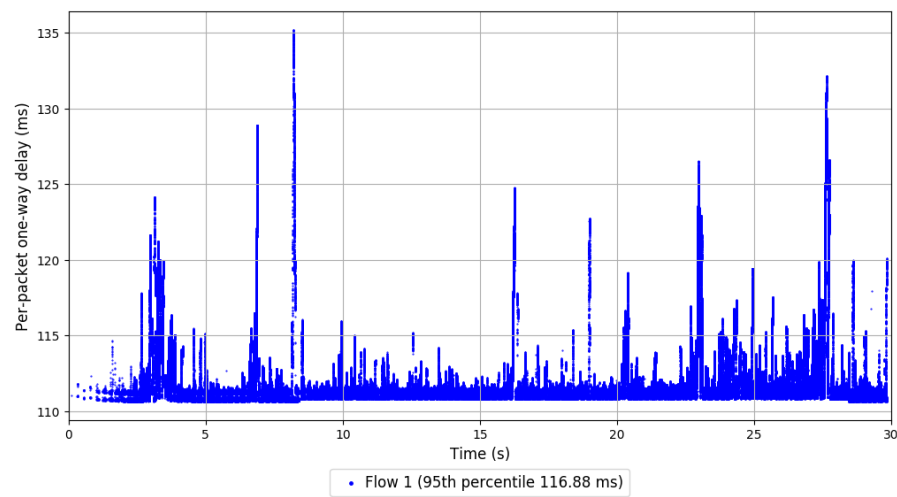
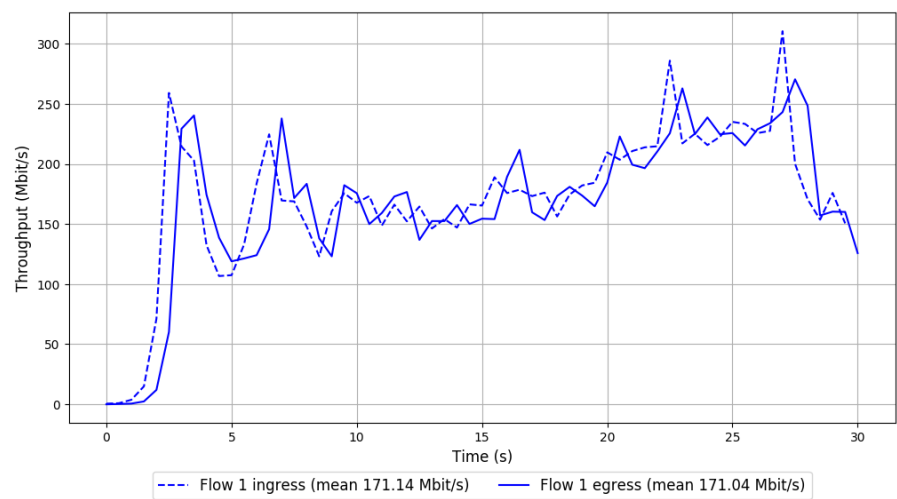
-- Flow 1:

Average throughput: 171.04 Mbit/s

95th percentile per-packet one-way delay: 116.882 ms

Loss rate: 0.72%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-06-29 23:35:44

End at: 2018-06-29 23:36:14

Local clock offset: -0.033 ms

Remote clock offset: 0.46 ms

Below is generated by plot.py at 2018-06-30 03:05:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 267.17 Mbit/s

95th percentile per-packet one-way delay: 124.509 ms

Loss rate: 1.07%

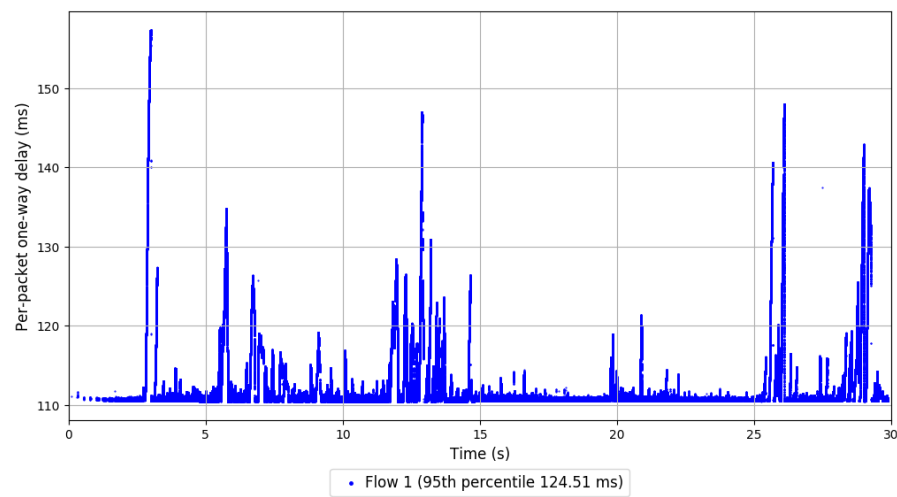
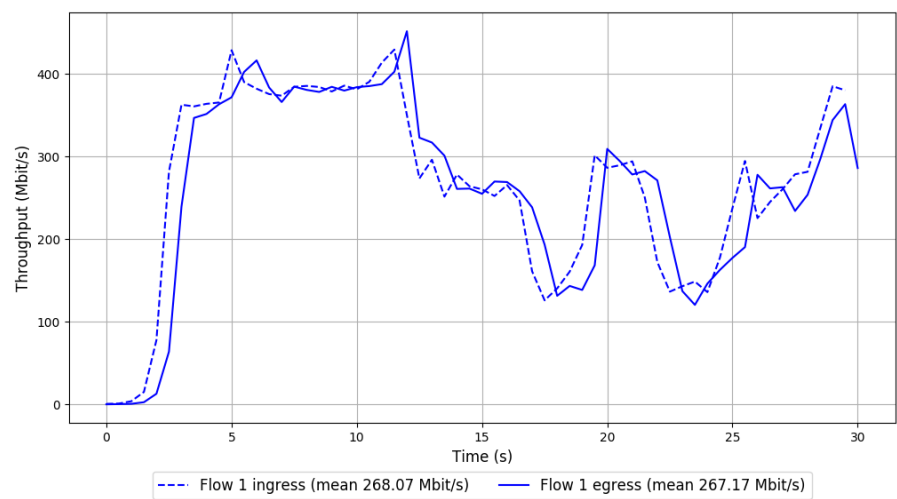
-- Flow 1:

Average throughput: 267.17 Mbit/s

95th percentile per-packet one-way delay: 124.509 ms

Loss rate: 1.07%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-06-29 23:58:12

End at: 2018-06-29 23:58:42

Local clock offset: 0.156 ms

Remote clock offset: 0.057 ms

Below is generated by plot.py at 2018-06-30 03:05:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 207.53 Mbit/s

95th percentile per-packet one-way delay: 121.516 ms

Loss rate: 1.34%

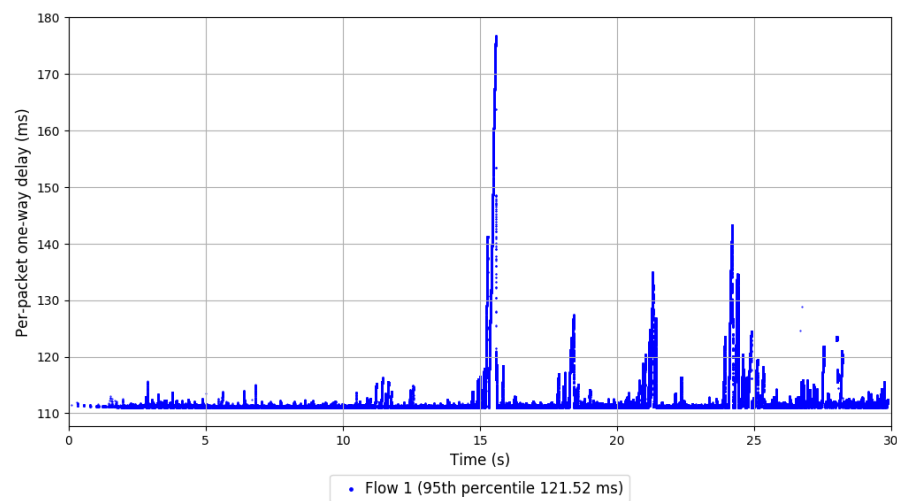
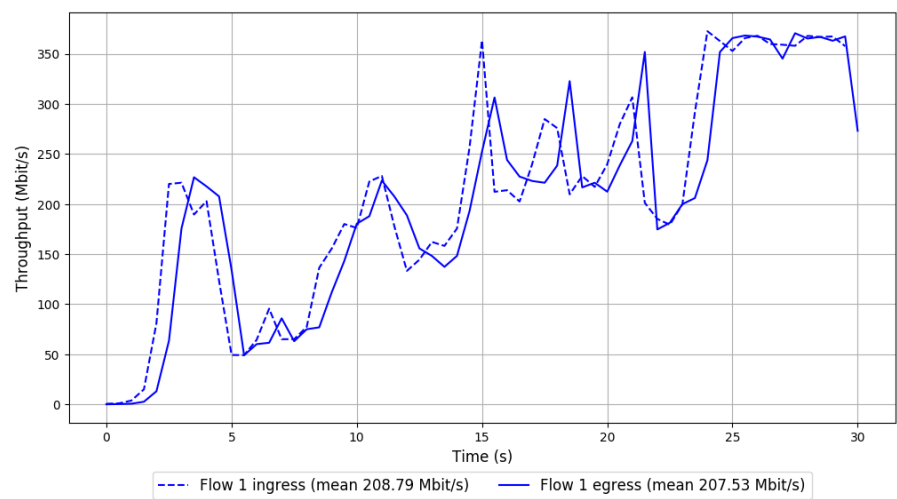
-- Flow 1:

Average throughput: 207.53 Mbit/s

95th percentile per-packet one-way delay: 121.516 ms

Loss rate: 1.34%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-06-30 00:20:22

End at: 2018-06-30 00:20:52

Local clock offset: -1.236 ms

Remote clock offset: 0.463 ms

Below is generated by plot.py at 2018-06-30 03:05:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 157.73 Mbit/s

95th percentile per-packet one-way delay: 120.181 ms

Loss rate: 1.20%

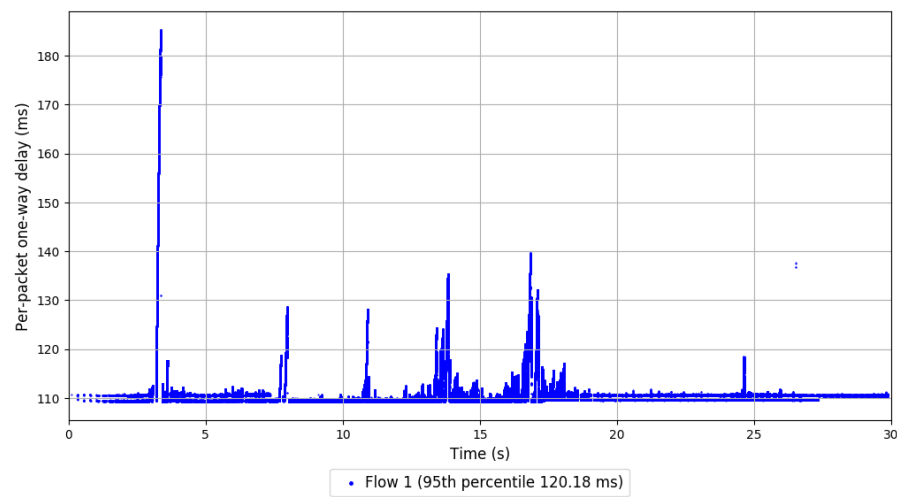
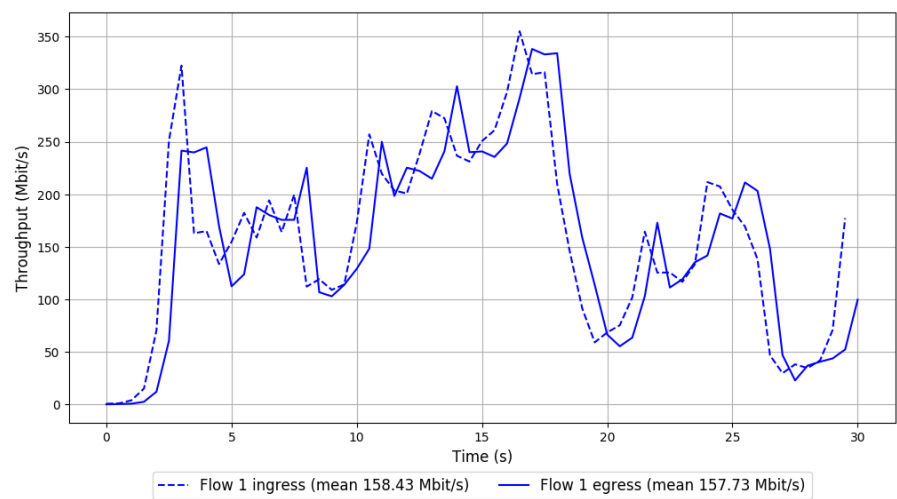
-- Flow 1:

Average throughput: 157.73 Mbit/s

95th percentile per-packet one-way delay: 120.181 ms

Loss rate: 1.20%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-06-30 00:42:12

End at: 2018-06-30 00:42:42

Local clock offset: -1.245 ms

Remote clock offset: 0.067 ms

Below is generated by plot.py at 2018-06-30 03:05:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 239.82 Mbit/s

95th percentile per-packet one-way delay: 129.998 ms

Loss rate: 0.78%

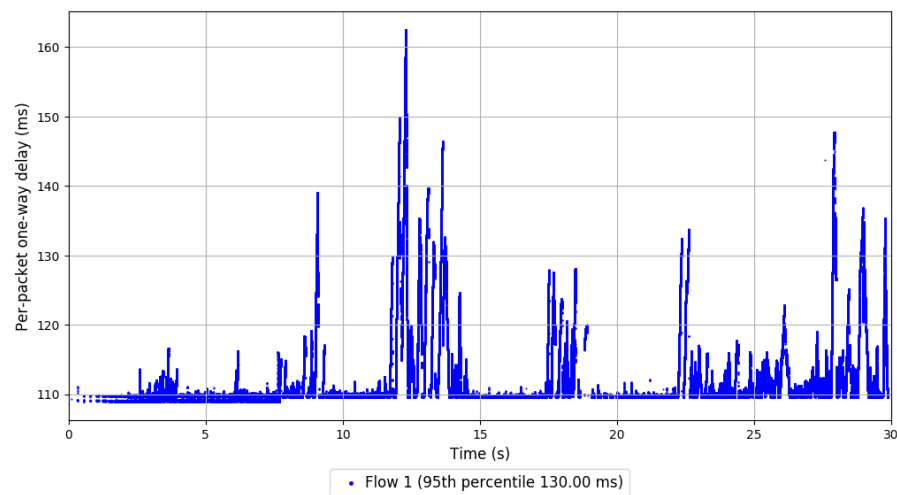
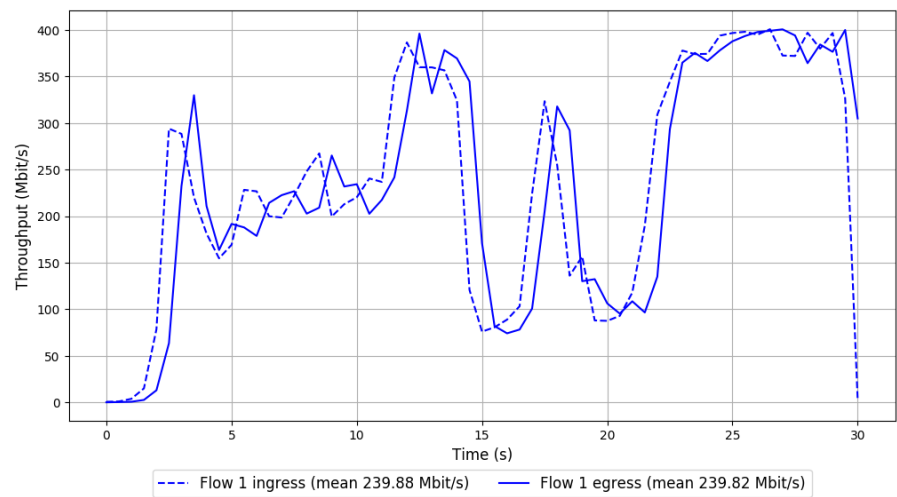
-- Flow 1:

Average throughput: 239.82 Mbit/s

95th percentile per-packet one-way delay: 129.998 ms

Loss rate: 0.78%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-06-30 01:04:35

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

Local clock offset: -0.131 ms

Remote clock offset: 0.475 ms

Below is generated by plot.py at 2018-06-30 03:05:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 159.23 Mbit/s

95th percentile per-packet one-way delay: 137.781 ms

Loss rate: 1.07%

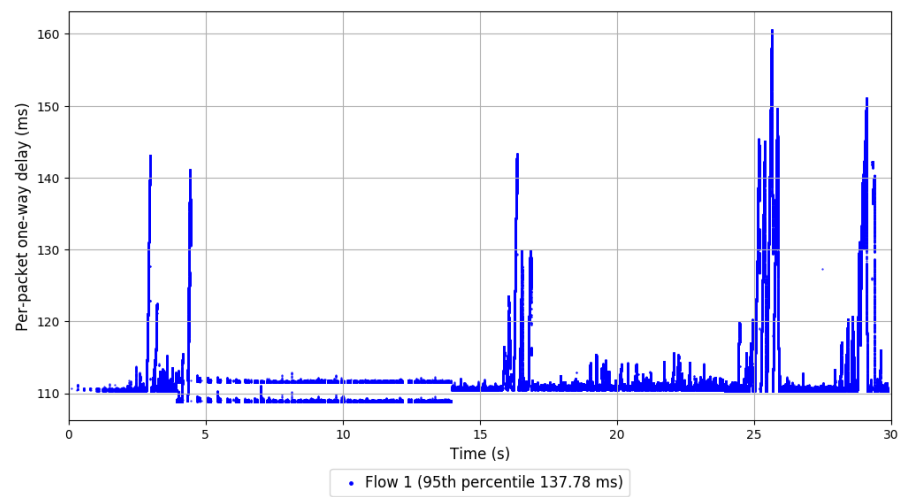
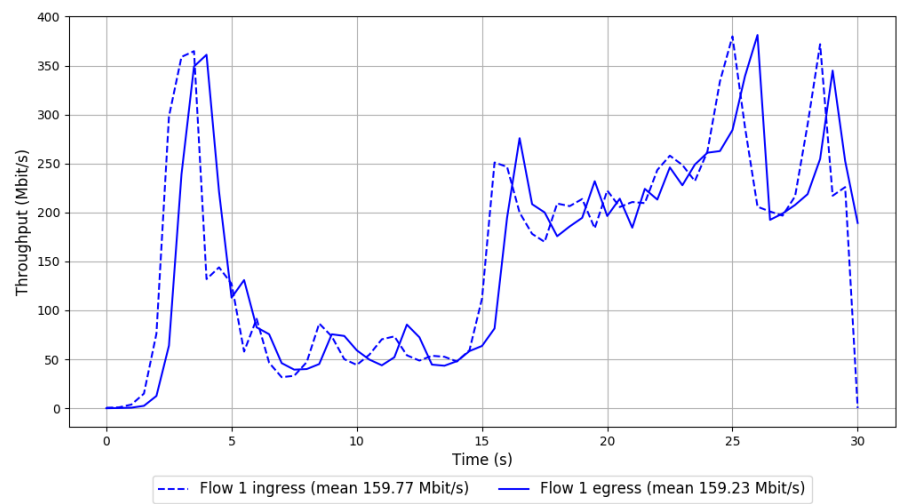
-- Flow 1:

Average throughput: 159.23 Mbit/s

95th percentile per-packet one-way delay: 137.781 ms

Loss rate: 1.07%

Run 6: Report of Copa — Data Link

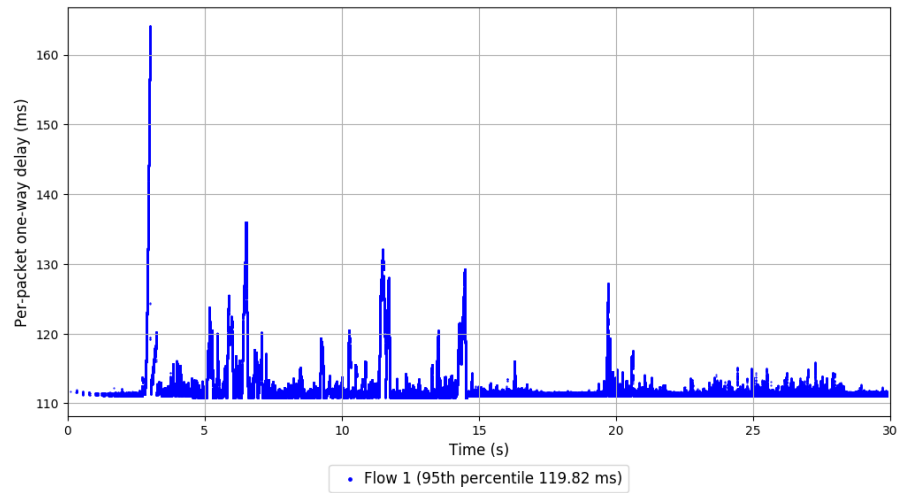
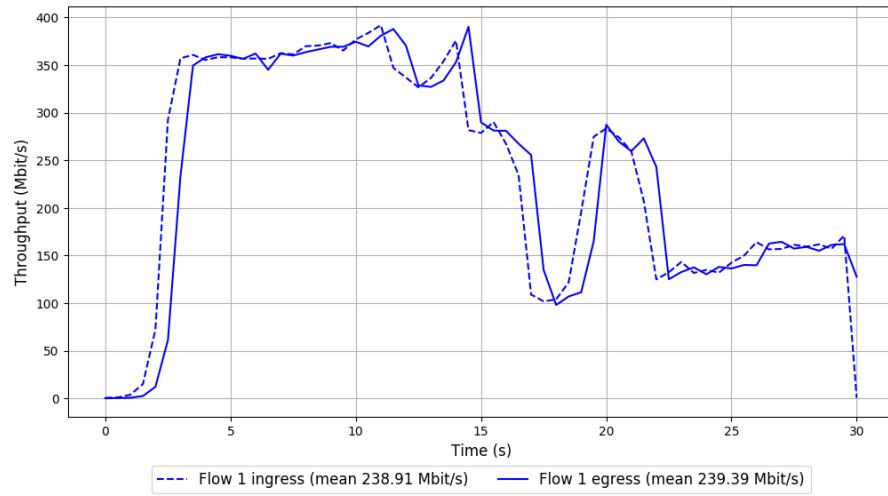


Run 7: Statistics of Copa

Start at: 2018-06-30 01:26:55
End at: 2018-06-30 01:27:25
Local clock offset: -0.028 ms
Remote clock offset: -0.052 ms

Below is generated by plot.py at 2018-06-30 03:05:53
Datalink statistics
-- Total of 1 flow:
Average throughput: 239.39 Mbit/s
95th percentile per-packet one-way delay: 119.819 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 239.39 Mbit/s
95th percentile per-packet one-way delay: 119.819 ms
Loss rate: 0.54%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-06-30 01:49:35

End at: 2018-06-30 01:50:05

Local clock offset: 0.08 ms

Remote clock offset: 0.39 ms

Below is generated by plot.py at 2018-06-30 03:07:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 294.50 Mbit/s

95th percentile per-packet one-way delay: 135.222 ms

Loss rate: 0.95%

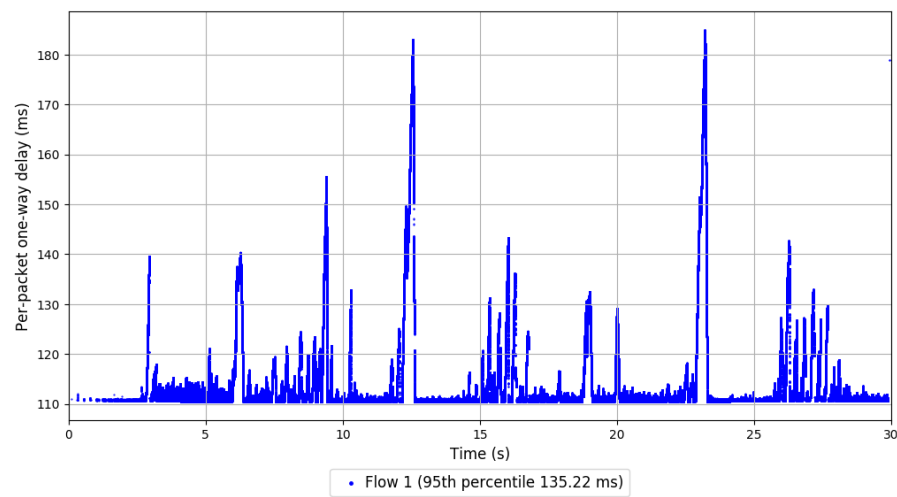
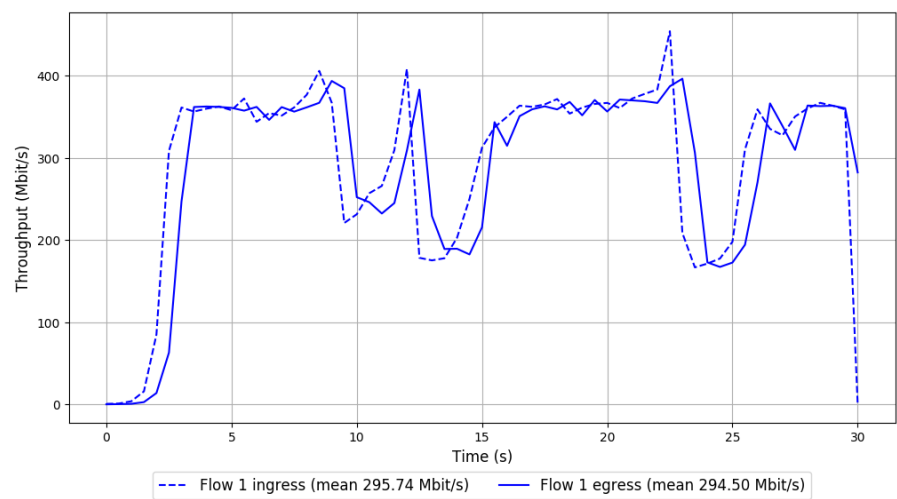
-- Flow 1:

Average throughput: 294.50 Mbit/s

95th percentile per-packet one-way delay: 135.222 ms

Loss rate: 0.95%

Run 8: Report of Copa — Data Link

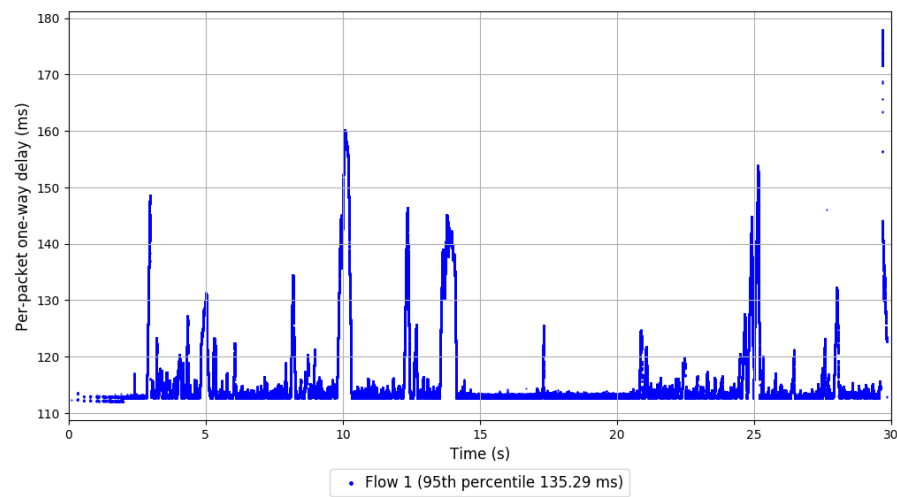
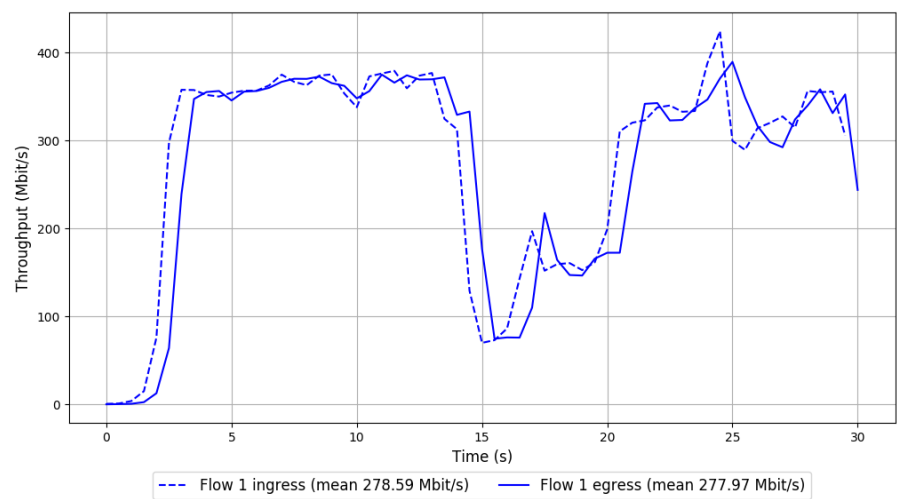


Run 9: Statistics of Copa

Start at: 2018-06-30 02:11:57
End at: 2018-06-30 02:12:27
Local clock offset: 1.402 ms
Remote clock offset: -0.298 ms

Below is generated by plot.py at 2018-06-30 03:09:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 277.97 Mbit/s
95th percentile per-packet one-way delay: 135.292 ms
Loss rate: 0.93%
-- Flow 1:
Average throughput: 277.97 Mbit/s
95th percentile per-packet one-way delay: 135.292 ms
Loss rate: 0.93%

Run 9: Report of Copa — Data Link

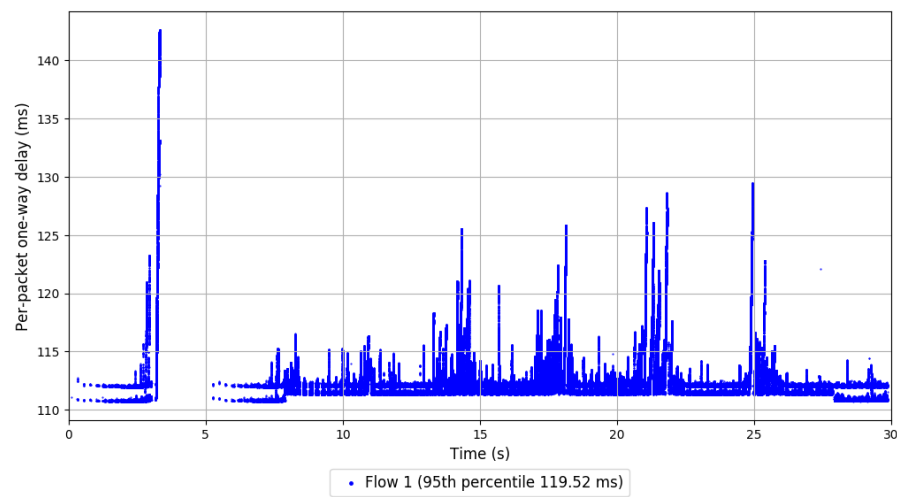
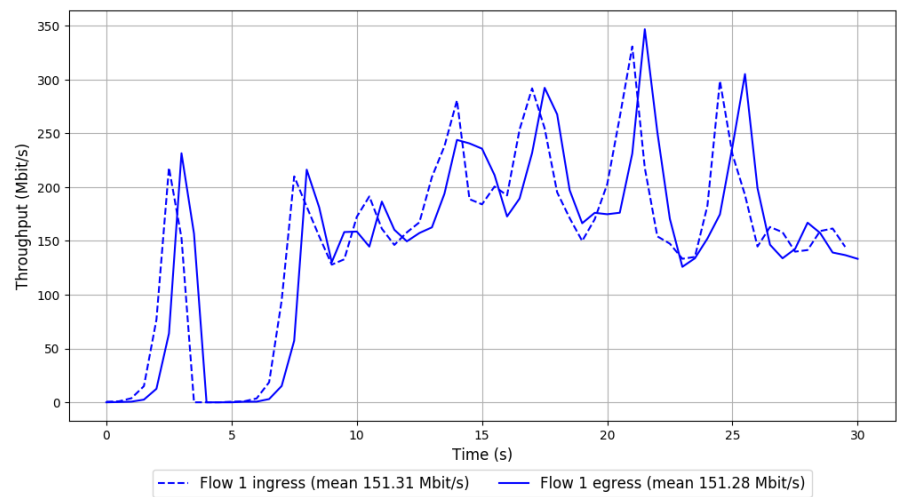


Run 10: Statistics of Copa

Start at: 2018-06-30 02:34:21
End at: 2018-06-30 02:34:51
Local clock offset: 0.216 ms
Remote clock offset: -0.408 ms

Below is generated by plot.py at 2018-06-30 03:09:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 151.28 Mbit/s
95th percentile per-packet one-way delay: 119.520 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 151.28 Mbit/s
95th percentile per-packet one-way delay: 119.520 ms
Loss rate: 0.76%

Run 10: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-06-29 23:05:19

End at: 2018-06-29 23:05:49

Local clock offset: -0.118 ms

Remote clock offset: 0.009 ms

Below is generated by plot.py at 2018-06-30 03:09:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.44 Mbit/s

95th percentile per-packet one-way delay: 118.574 ms

Loss rate: 1.30%

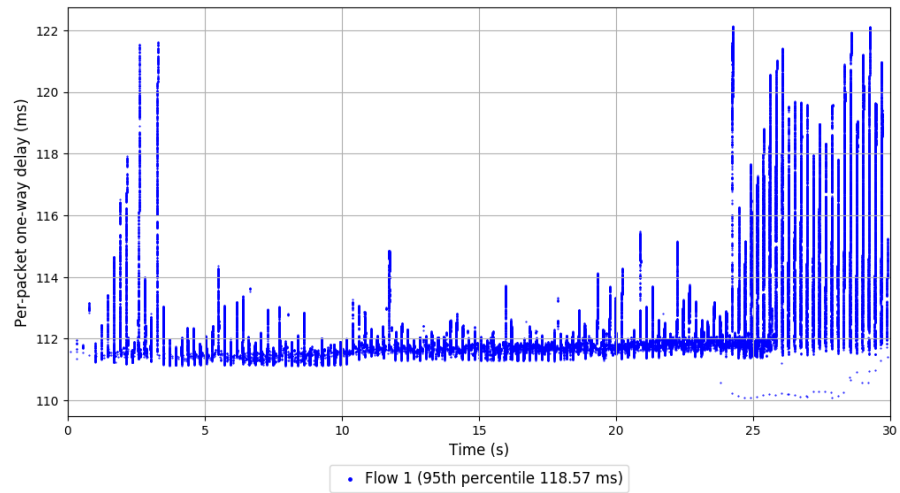
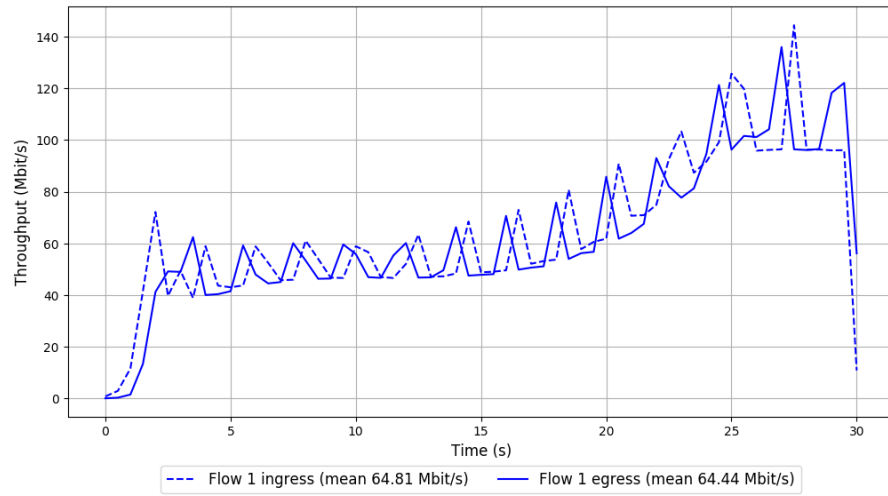
-- Flow 1:

Average throughput: 64.44 Mbit/s

95th percentile per-packet one-way delay: 118.574 ms

Loss rate: 1.30%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-06-29 23:27:30

End at: 2018-06-29 23:28:00

Local clock offset: -1.296 ms

Remote clock offset: 0.391 ms

Below is generated by plot.py at 2018-06-30 03:09:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 101.00 Mbit/s

95th percentile per-packet one-way delay: 117.262 ms

Loss rate: 0.26%

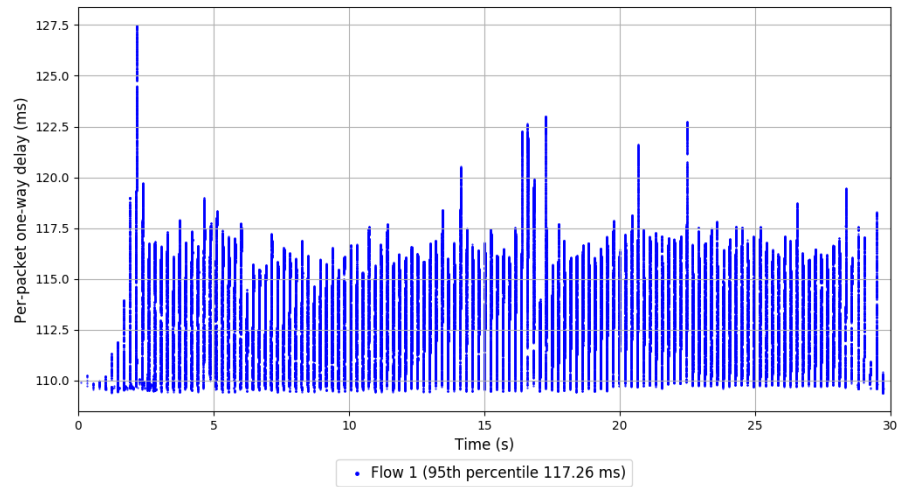
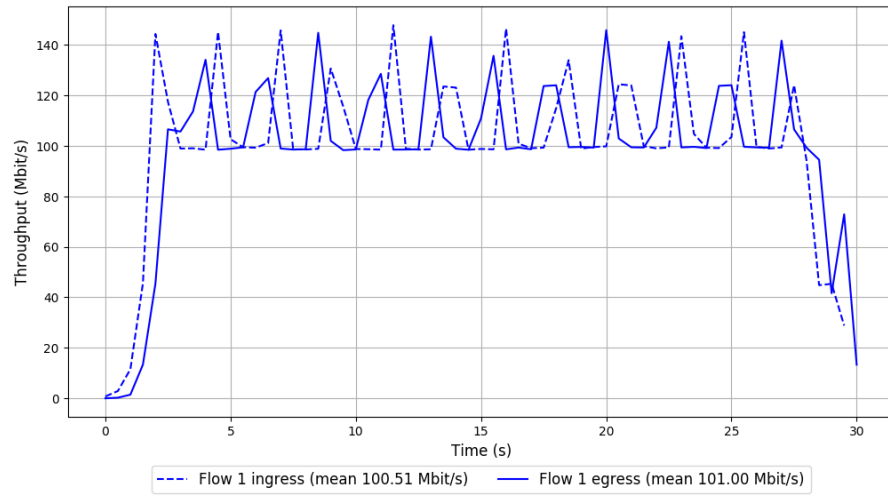
-- Flow 1:

Average throughput: 101.00 Mbit/s

95th percentile per-packet one-way delay: 117.262 ms

Loss rate: 0.26%

Run 2: Report of TCP Cubic — Data Link

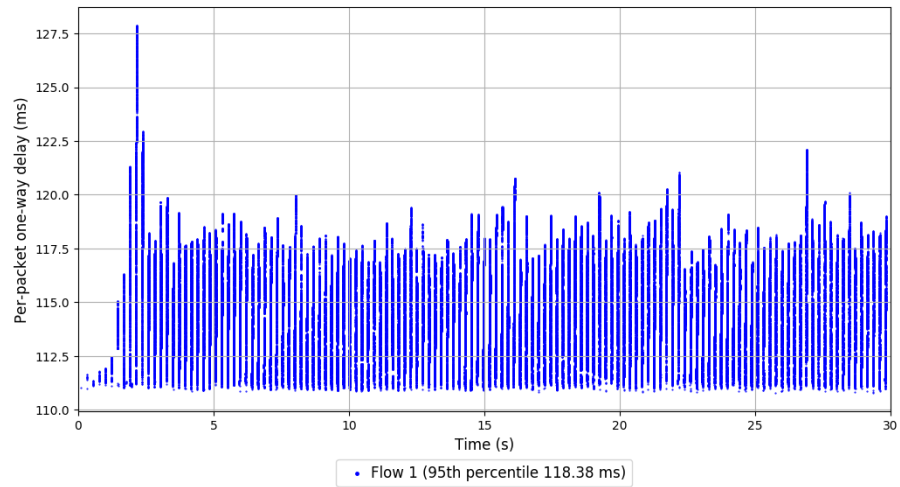
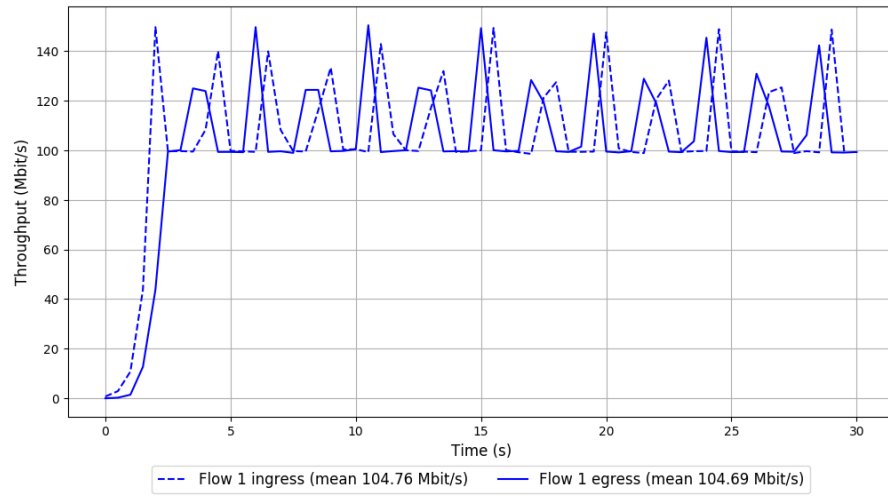


Run 3: Statistics of TCP Cubic

Start at: 2018-06-29 23:50:03
End at: 2018-06-29 23:50:33
Local clock offset: -0.477 ms
Remote clock offset: -0.282 ms

Below is generated by plot.py at 2018-06-30 03:09:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 104.69 Mbit/s
95th percentile per-packet one-way delay: 118.384 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 104.69 Mbit/s
95th percentile per-packet one-way delay: 118.384 ms
Loss rate: 0.79%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-06-30 00:12:04

End at: 2018-06-30 00:12:34

Local clock offset: -1.377 ms

Remote clock offset: 0.457 ms

Below is generated by plot.py at 2018-06-30 03:09:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 65.87 Mbit/s

95th percentile per-packet one-way delay: 116.901 ms

Loss rate: 1.23%

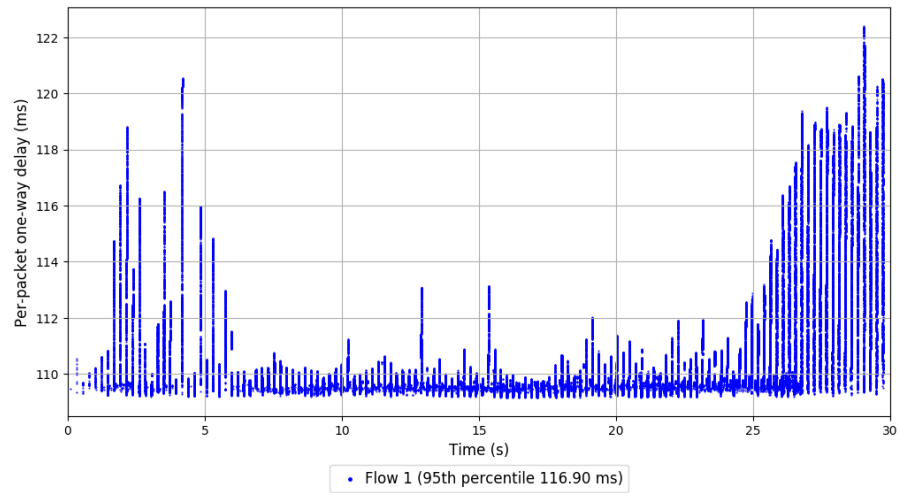
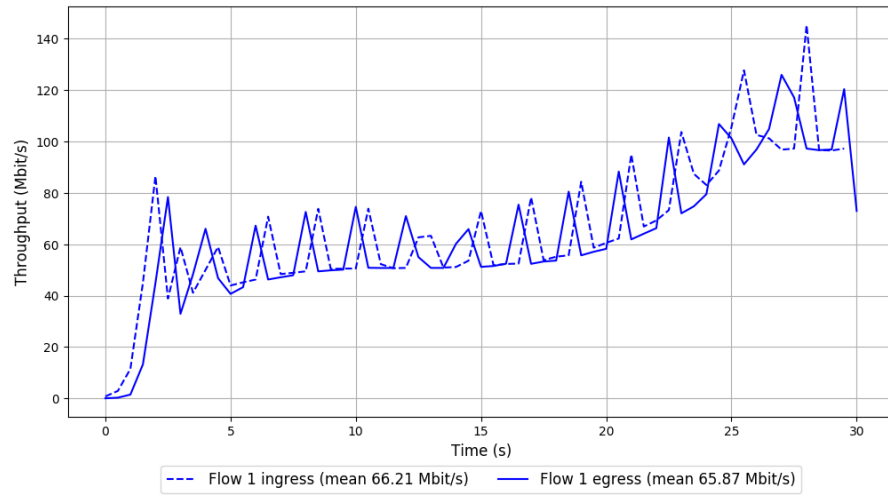
-- Flow 1:

Average throughput: 65.87 Mbit/s

95th percentile per-packet one-way delay: 116.901 ms

Loss rate: 1.23%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-06-30 00:33:59

End at: 2018-06-30 00:34:29

Local clock offset: 0.041 ms

Remote clock offset: 0.111 ms

Below is generated by plot.py at 2018-06-30 03:09:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.61 Mbit/s

95th percentile per-packet one-way delay: 118.102 ms

Loss rate: 1.08%

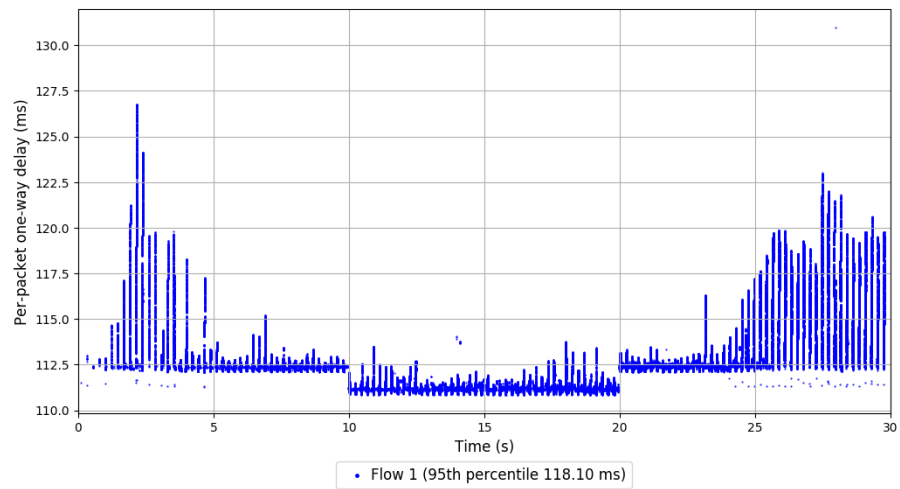
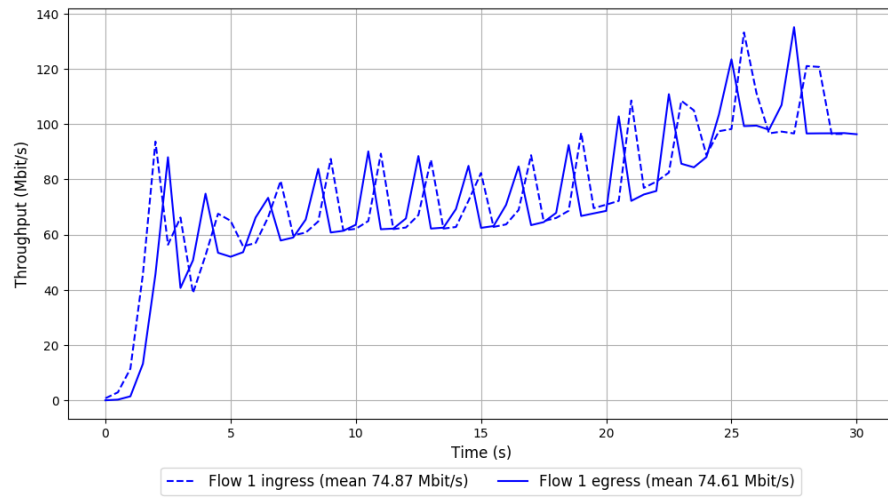
-- Flow 1:

Average throughput: 74.61 Mbit/s

95th percentile per-packet one-way delay: 118.102 ms

Loss rate: 1.08%

Run 5: Report of TCP Cubic — Data Link

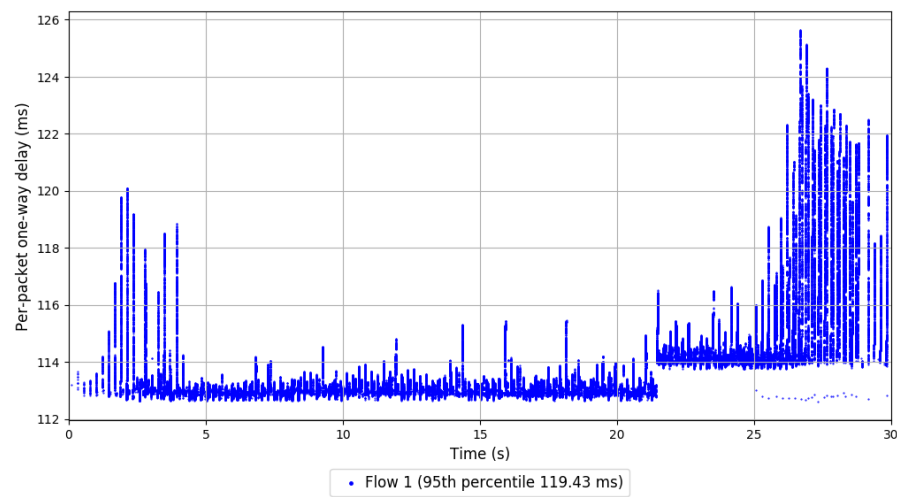
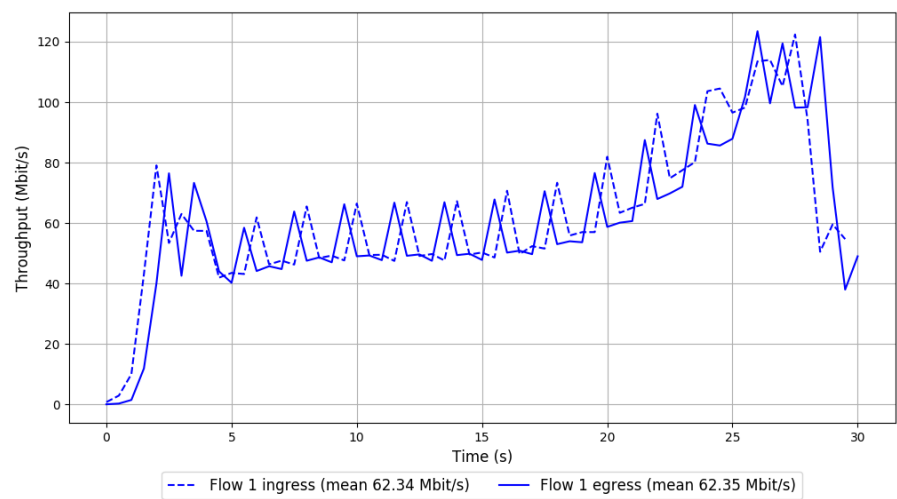


Run 6: Statistics of TCP Cubic

Start at: 2018-06-30 00:56:28
End at: 2018-06-30 00:56:58
Local clock offset: 1.257 ms
Remote clock offset: -0.303 ms

Below is generated by plot.py at 2018-06-30 03:09:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 62.35 Mbit/s
95th percentile per-packet one-way delay: 119.429 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 62.35 Mbit/s
95th percentile per-packet one-way delay: 119.429 ms
Loss rate: 0.73%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-06-30 01:18:40

End at: 2018-06-30 01:19:10

Local clock offset: 0.171 ms

Remote clock offset: 0.078 ms

Below is generated by plot.py at 2018-06-30 03:09:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 67.39 Mbit/s

95th percentile per-packet one-way delay: 116.665 ms

Loss rate: 1.20%

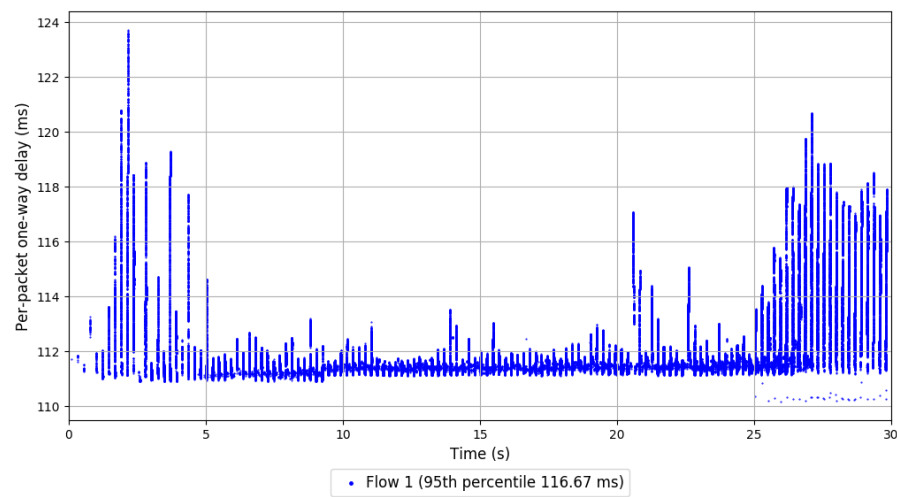
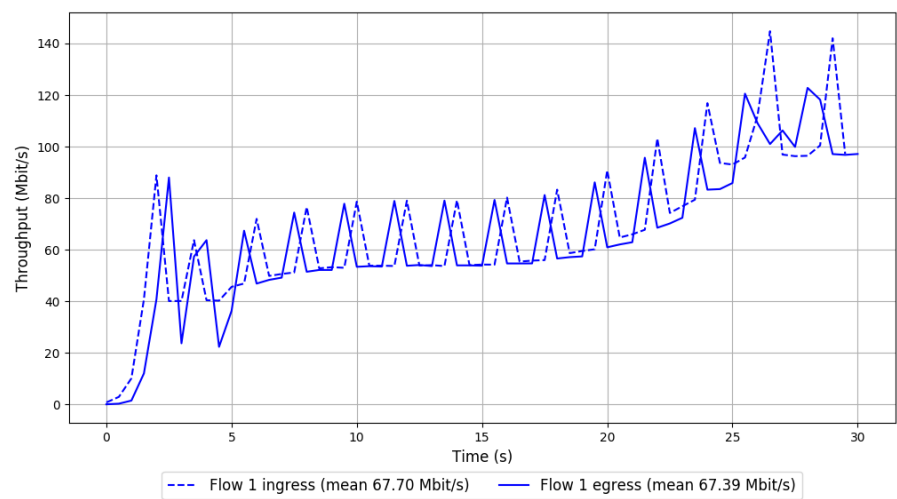
-- Flow 1:

Average throughput: 67.39 Mbit/s

95th percentile per-packet one-way delay: 116.665 ms

Loss rate: 1.20%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-06-30 01:41:15

End at: 2018-06-30 01:41:45

Local clock offset: -0.062 ms

Remote clock offset: 0.034 ms

Below is generated by plot.py at 2018-06-30 03:09:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 104.09 Mbit/s

95th percentile per-packet one-way delay: 118.518 ms

Loss rate: 0.80%

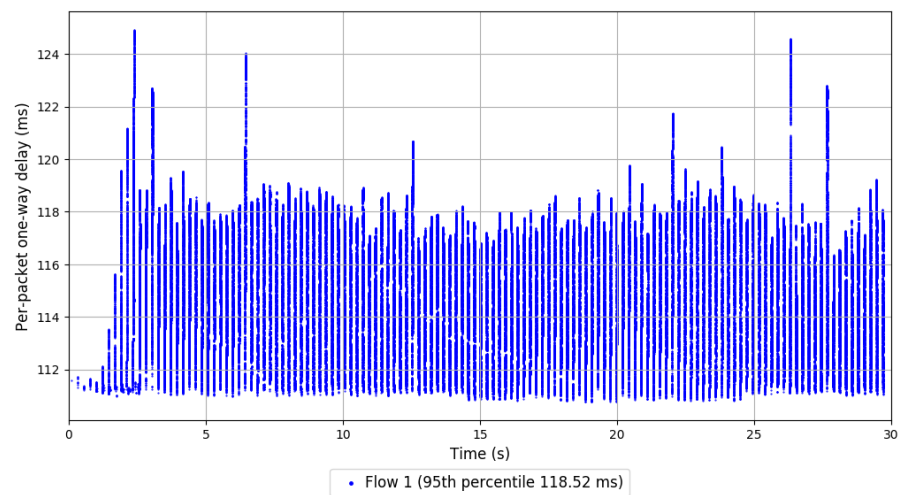
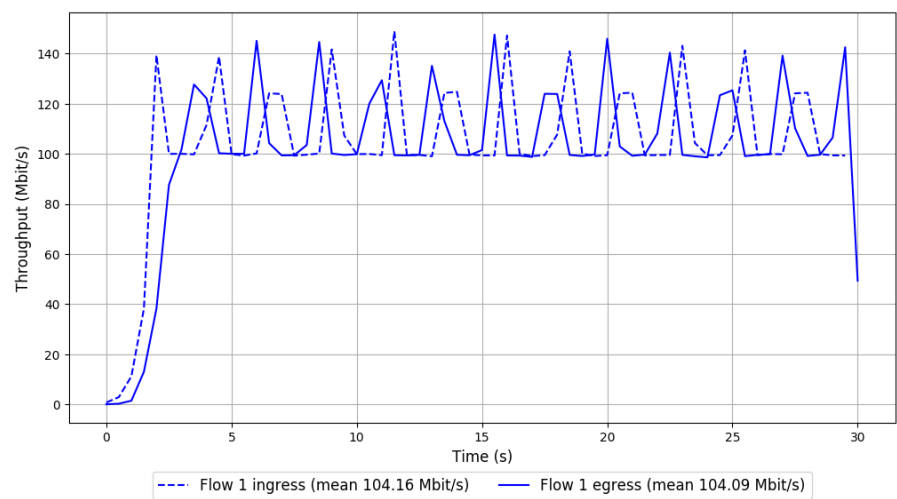
-- Flow 1:

Average throughput: 104.09 Mbit/s

95th percentile per-packet one-way delay: 118.518 ms

Loss rate: 0.80%

Run 8: Report of TCP Cubic — Data Link

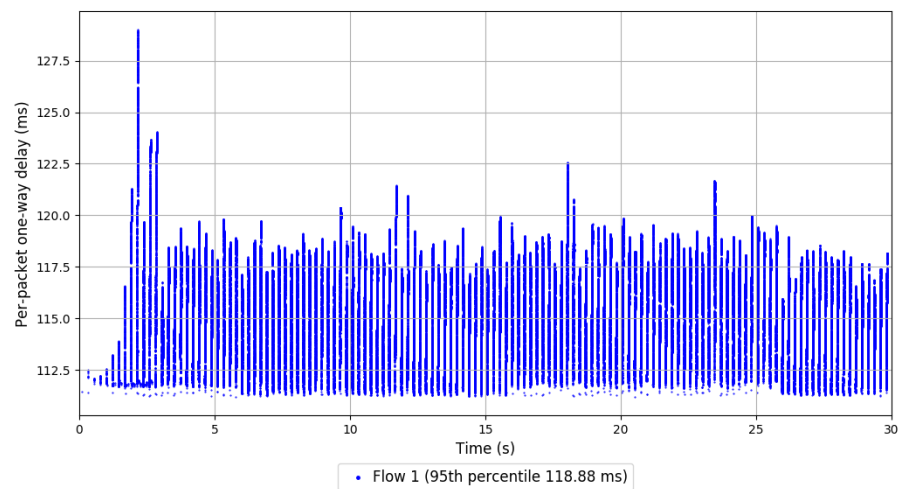
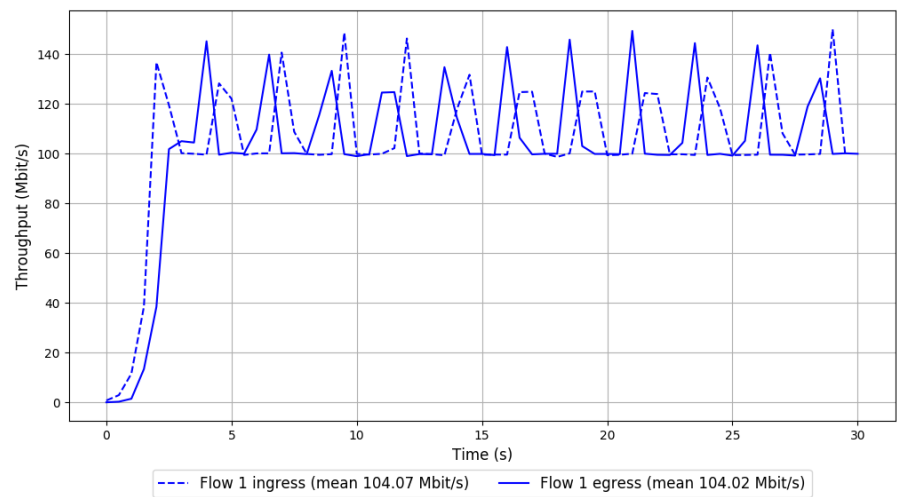


Run 9: Statistics of TCP Cubic

Start at: 2018-06-30 02:03:53
End at: 2018-06-30 02:04:23
Local clock offset: -0.224 ms
Remote clock offset: -0.376 ms

Below is generated by plot.py at 2018-06-30 03:09:38
Datalink statistics
-- Total of 1 flow:
Average throughput: 104.02 Mbit/s
95th percentile per-packet one-way delay: 118.882 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 104.02 Mbit/s
95th percentile per-packet one-way delay: 118.882 ms
Loss rate: 0.80%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-06-30 02:26:12

End at: 2018-06-30 02:26:42

Local clock offset: -1.299 ms

Remote clock offset: 0.353 ms

Below is generated by plot.py at 2018-06-30 03:09:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 104.24 Mbit/s

95th percentile per-packet one-way delay: 117.618 ms

Loss rate: 0.79%

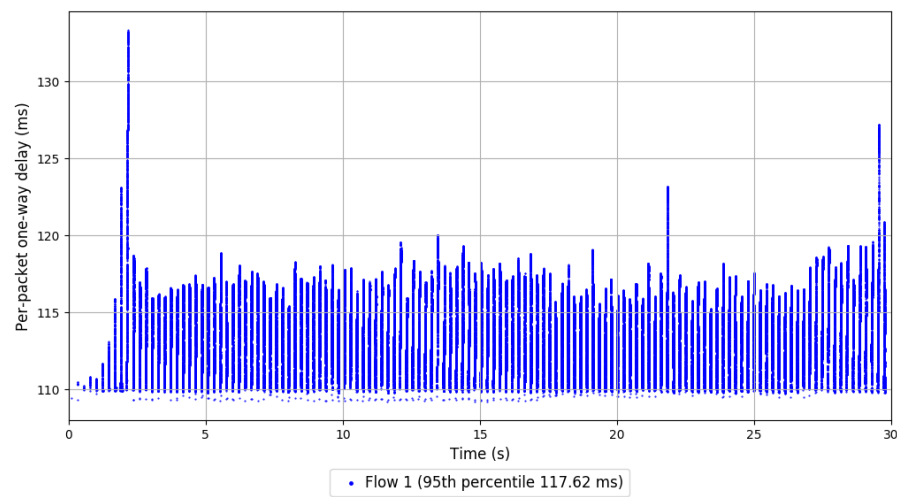
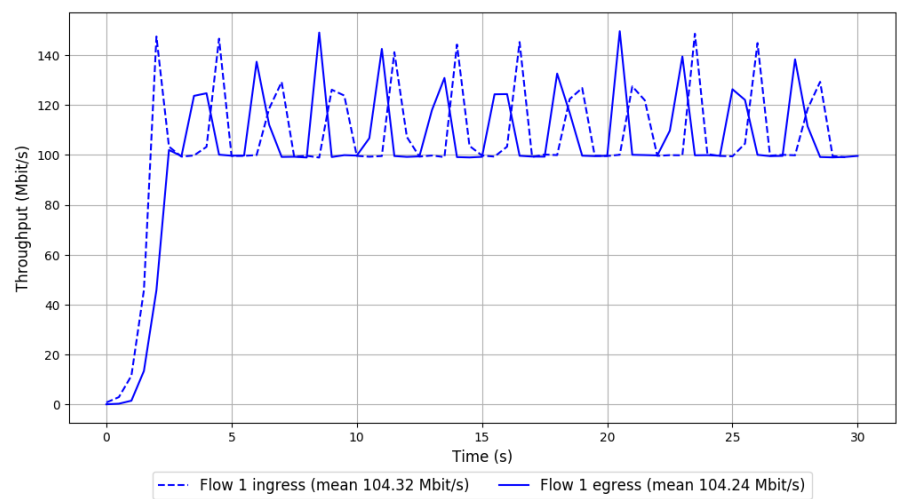
-- Flow 1:

Average throughput: 104.24 Mbit/s

95th percentile per-packet one-way delay: 117.618 ms

Loss rate: 0.79%

Run 10: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2018-06-29 23:11:46

End at: 2018-06-29 23:12:16

Local clock offset: -0.111 ms

Remote clock offset: 0.447 ms

Below is generated by plot.py at 2018-06-30 03:23:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 872.22 Mbit/s

95th percentile per-packet one-way delay: 261.484 ms

Loss rate: 1.28%

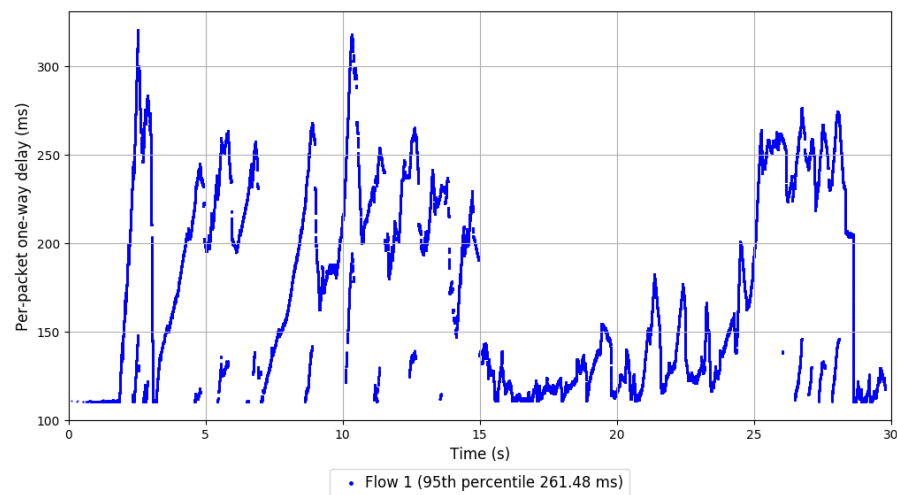
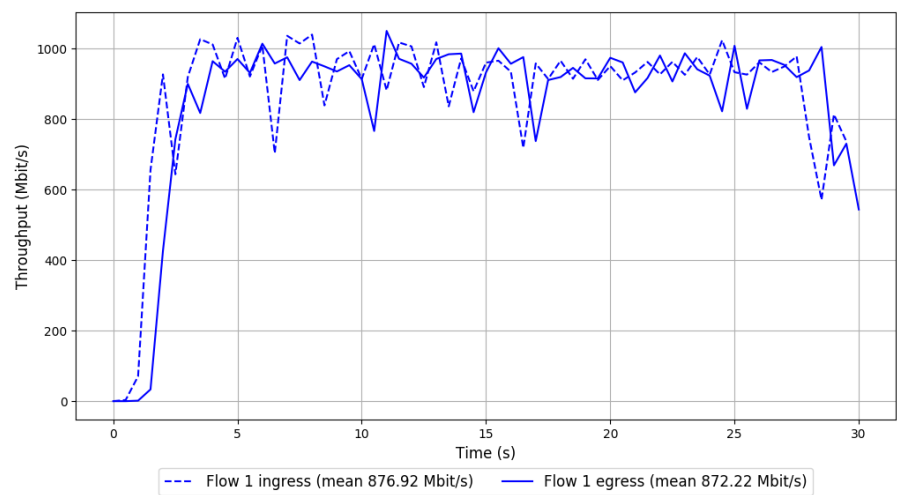
-- Flow 1:

Average throughput: 872.22 Mbit/s

95th percentile per-packet one-way delay: 261.484 ms

Loss rate: 1.28%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-06-29 23:34:02

End at: 2018-06-29 23:34:32

Local clock offset: 0.034 ms

Remote clock offset: 0.0 ms

Below is generated by plot.py at 2018-06-30 03:23:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 816.79 Mbit/s

95th percentile per-packet one-way delay: 265.986 ms

Loss rate: 2.11%

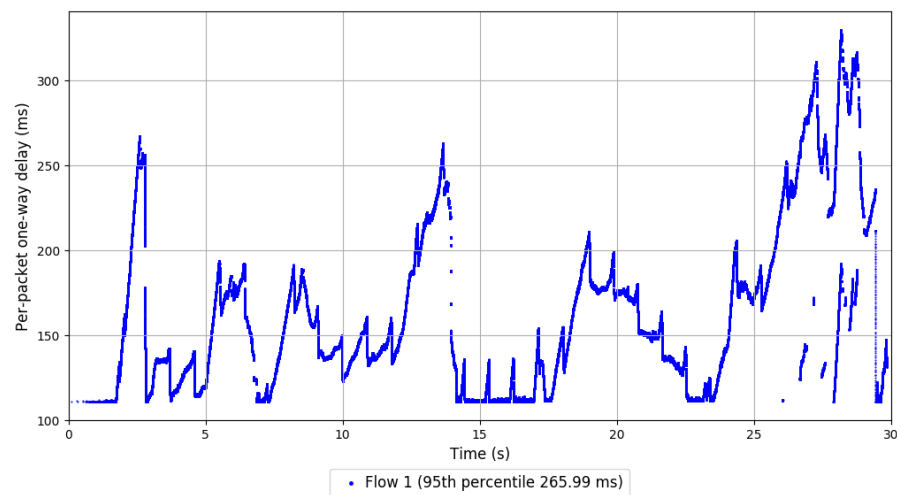
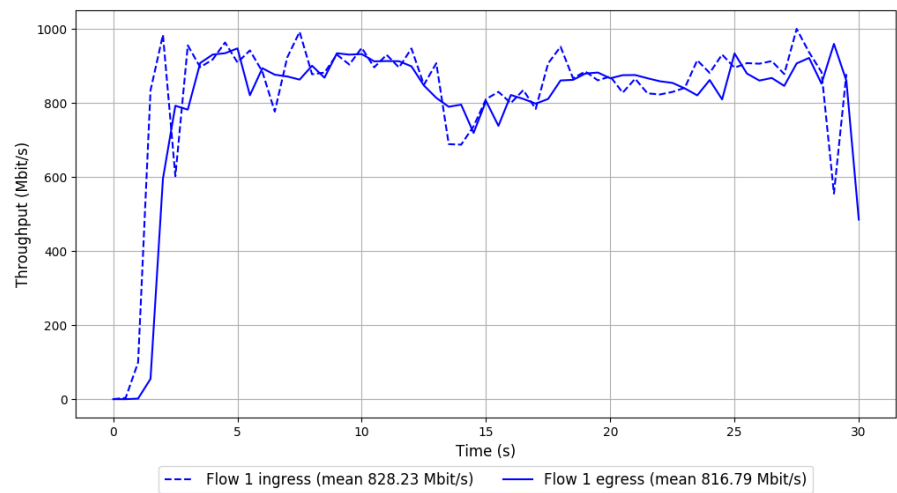
-- Flow 1:

Average throughput: 816.79 Mbit/s

95th percentile per-packet one-way delay: 265.986 ms

Loss rate: 2.11%

Run 2: Report of FillP — Data Link

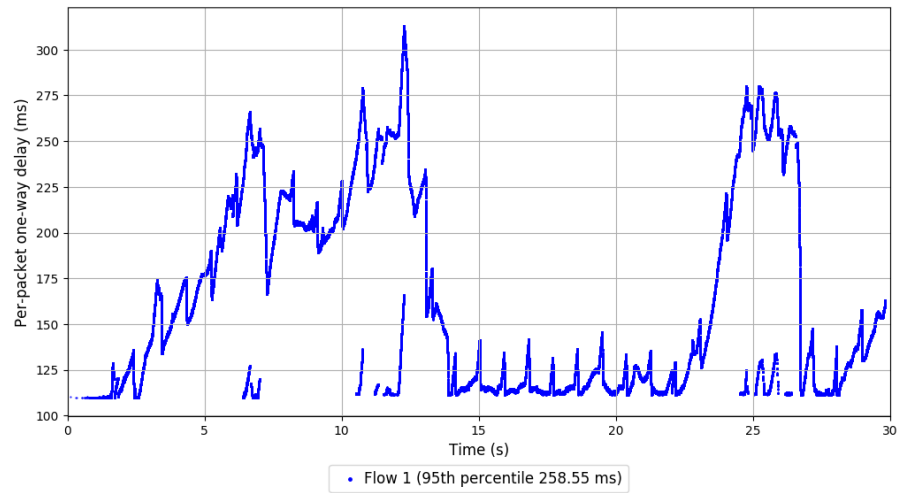
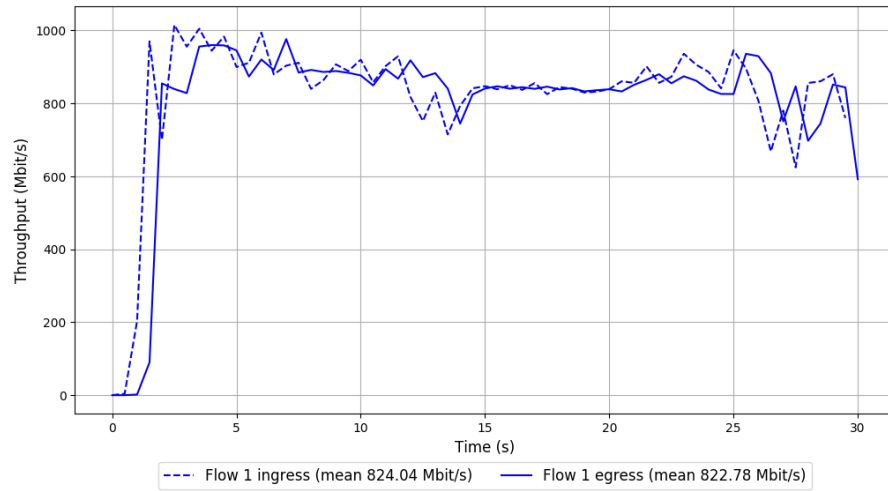


Run 3: Statistics of FillP

Start at: 2018-06-29 23:56:29
End at: 2018-06-29 23:56:59
Local clock offset: 0.088 ms
Remote clock offset: -0.304 ms

Below is generated by plot.py at 2018-06-30 03:23:01
Datalink statistics
-- Total of 1 flow:
Average throughput: 822.78 Mbit/s
95th percentile per-packet one-way delay: 258.553 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 822.78 Mbit/s
95th percentile per-packet one-way delay: 258.553 ms
Loss rate: 0.89%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-06-30 00:18:38

End at: 2018-06-30 00:19:08

Local clock offset: -1.129 ms

Remote clock offset: 0.059 ms

Below is generated by plot.py at 2018-06-30 03:23:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 860.71 Mbit/s

95th percentile per-packet one-way delay: 239.802 ms

Loss rate: 1.22%

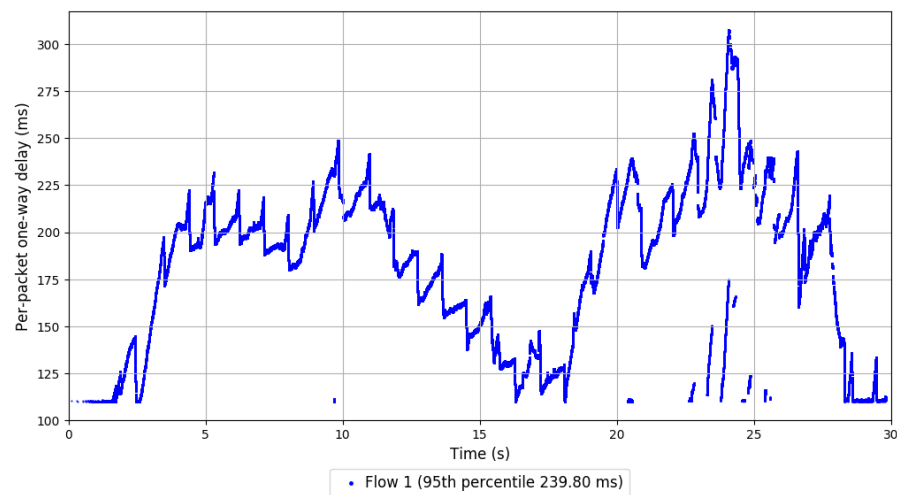
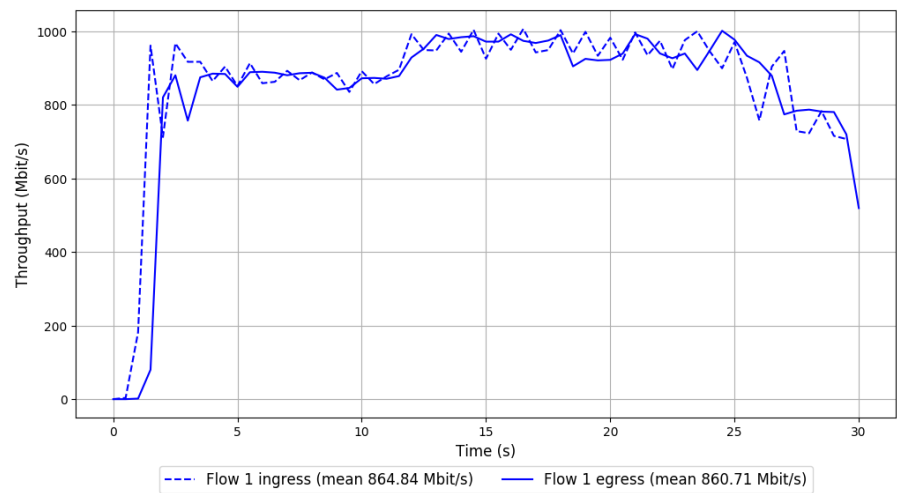
-- Flow 1:

Average throughput: 860.71 Mbit/s

95th percentile per-packet one-way delay: 239.802 ms

Loss rate: 1.22%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-06-30 00:40:28

End at: 2018-06-30 00:40:58

Local clock offset: 0.33 ms

Remote clock offset: 0.075 ms

Below is generated by plot.py at 2018-06-30 03:23:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 833.77 Mbit/s

95th percentile per-packet one-way delay: 187.053 ms

Loss rate: 2.71%

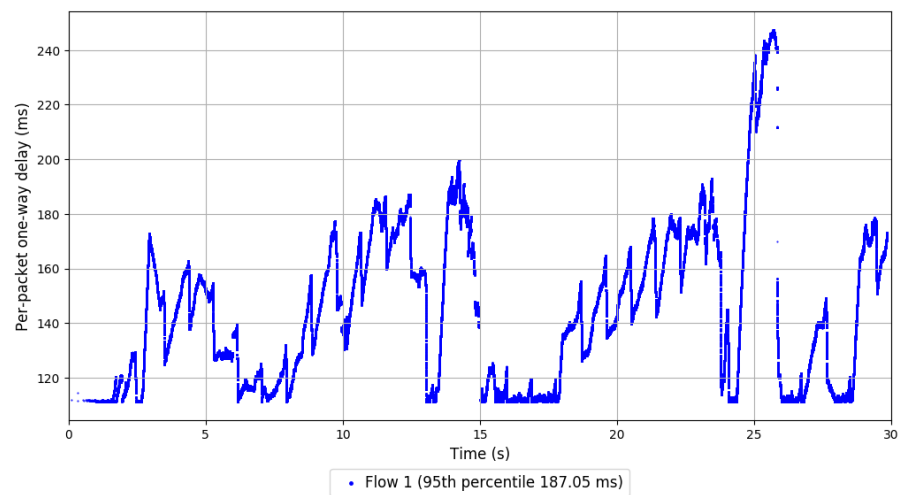
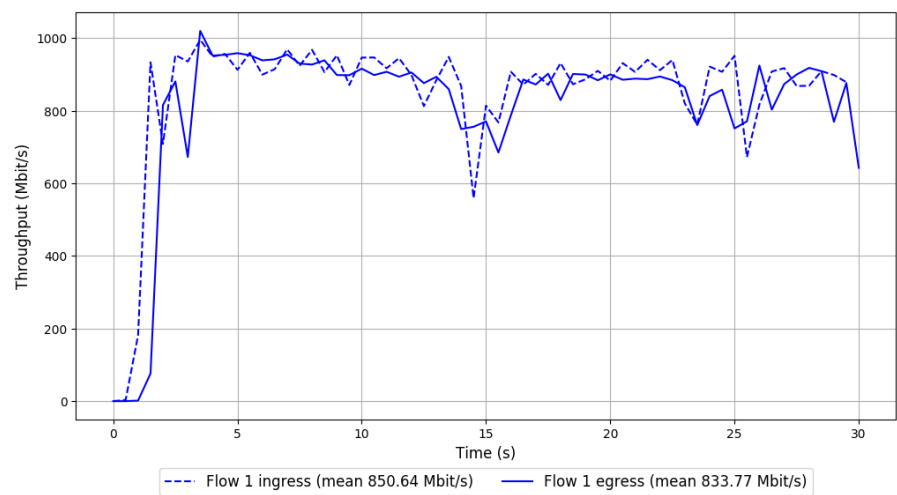
-- Flow 1:

Average throughput: 833.77 Mbit/s

95th percentile per-packet one-way delay: 187.053 ms

Loss rate: 2.71%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-06-30 01:02:53

End at: 2018-06-30 01:03:23

Local clock offset: -1.451 ms

Remote clock offset: 0.085 ms

Below is generated by plot.py at 2018-06-30 03:23:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 802.39 Mbit/s

95th percentile per-packet one-way delay: 223.456 ms

Loss rate: 2.61%

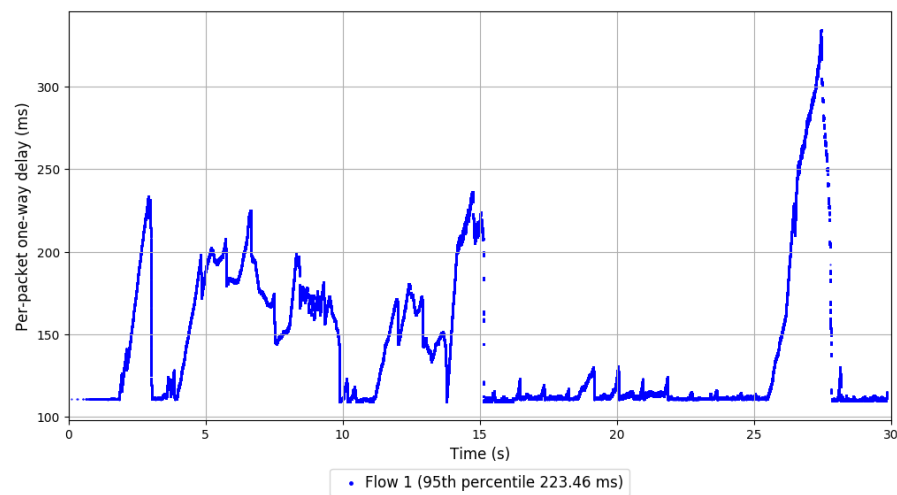
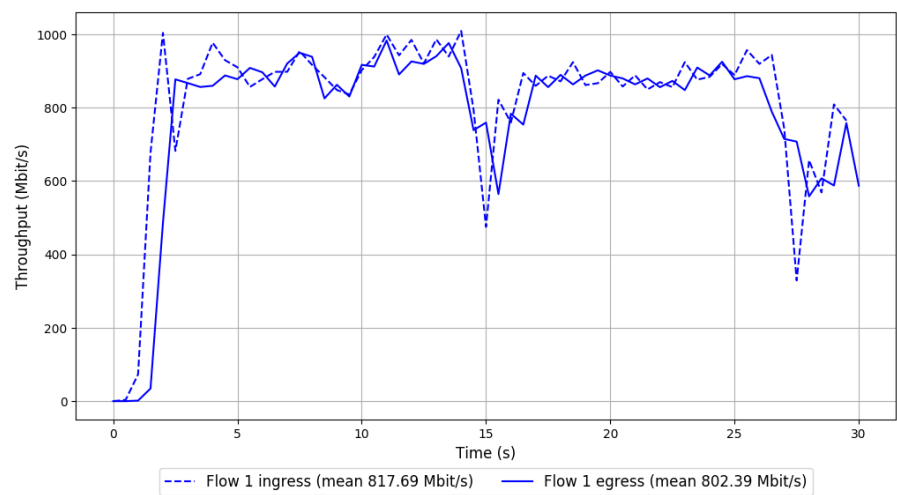
-- Flow 1:

Average throughput: 802.39 Mbit/s

95th percentile per-packet one-way delay: 223.456 ms

Loss rate: 2.61%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-06-30 01:25:09

End at: 2018-06-30 01:25:39

Local clock offset: 0.225 ms

Remote clock offset: 0.038 ms

Below is generated by plot.py at 2018-06-30 03:24:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 868.58 Mbit/s

95th percentile per-packet one-way delay: 173.675 ms

Loss rate: 2.34%

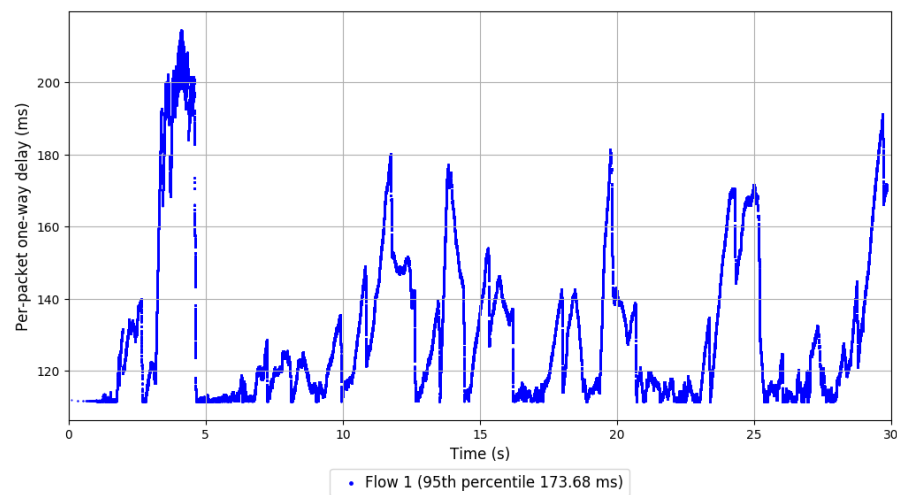
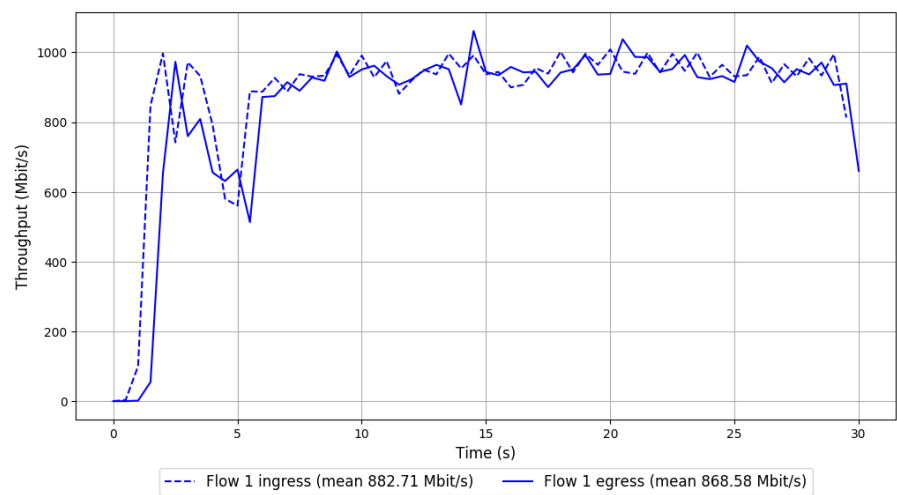
-- Flow 1:

Average throughput: 868.58 Mbit/s

95th percentile per-packet one-way delay: 173.675 ms

Loss rate: 2.34%

Run 7: Report of FillP — Data Link

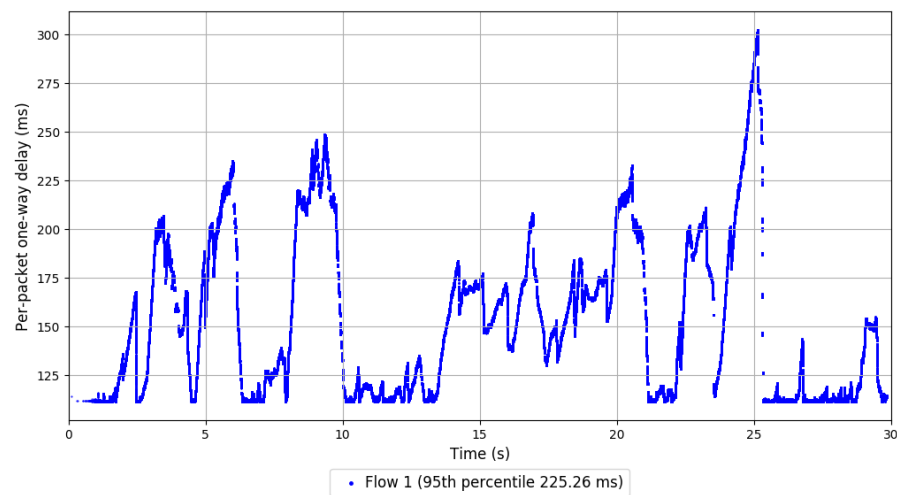
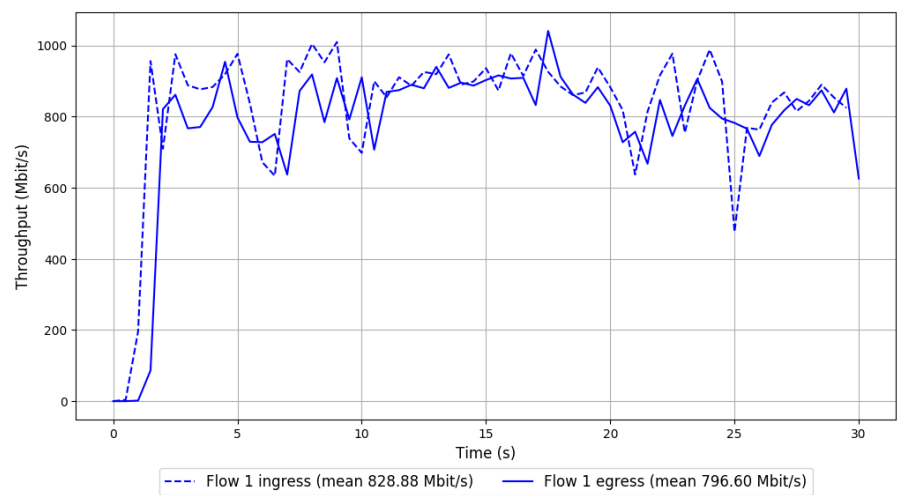


Run 8: Statistics of FillP

Start at: 2018-06-30 01:47:53
End at: 2018-06-30 01:48:23
Local clock offset: -0.035 ms
Remote clock offset: -0.008 ms

Below is generated by plot.py at 2018-06-30 03:26:27
Datalink statistics
-- Total of 1 flow:
Average throughput: 796.60 Mbit/s
95th percentile per-packet one-way delay: 225.262 ms
Loss rate: 4.62%
-- Flow 1:
Average throughput: 796.60 Mbit/s
95th percentile per-packet one-way delay: 225.262 ms
Loss rate: 4.62%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-06-30 02:10:15

End at: 2018-06-30 02:10:45

Local clock offset: -0.129 ms

Remote clock offset: 0.018 ms

Below is generated by plot.py at 2018-06-30 03:37:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 794.64 Mbit/s

95th percentile per-packet one-way delay: 243.804 ms

Loss rate: 4.50%

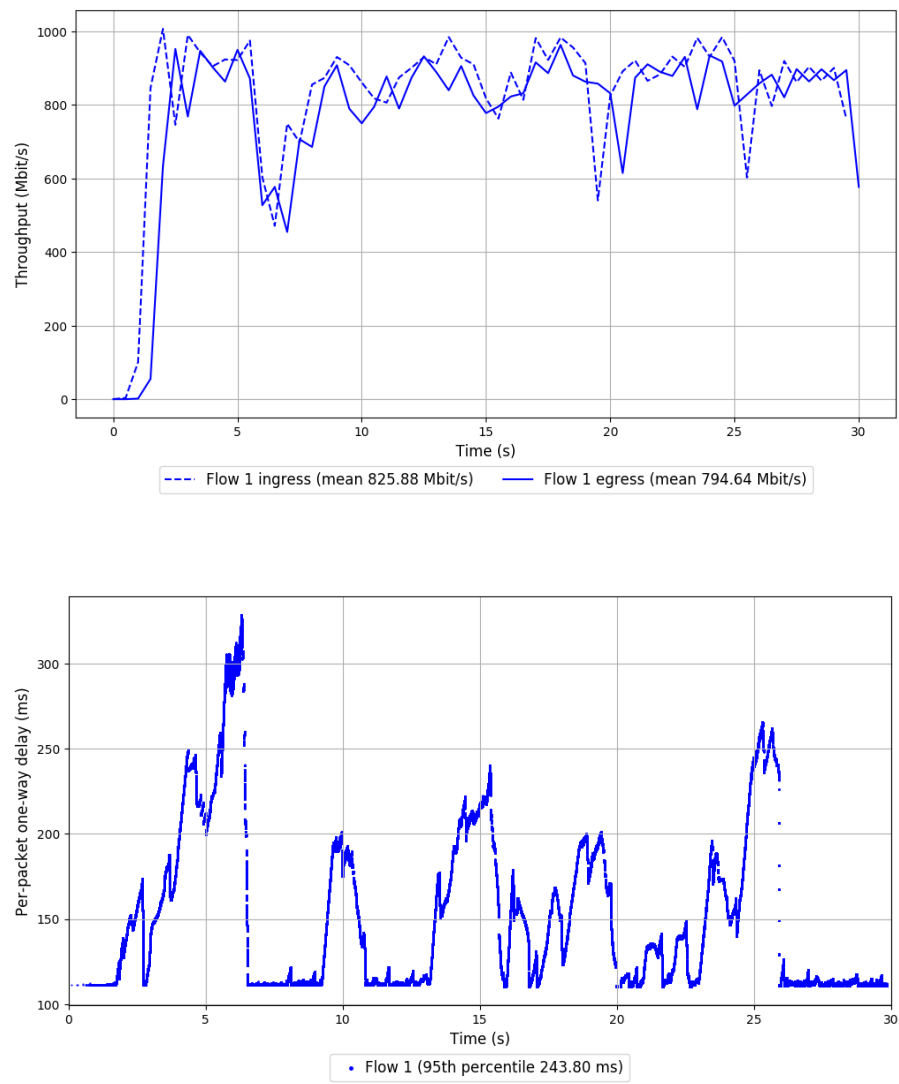
-- Flow 1:

Average throughput: 794.64 Mbit/s

95th percentile per-packet one-way delay: 243.804 ms

Loss rate: 4.50%

Run 9: Report of FillP — Data Link

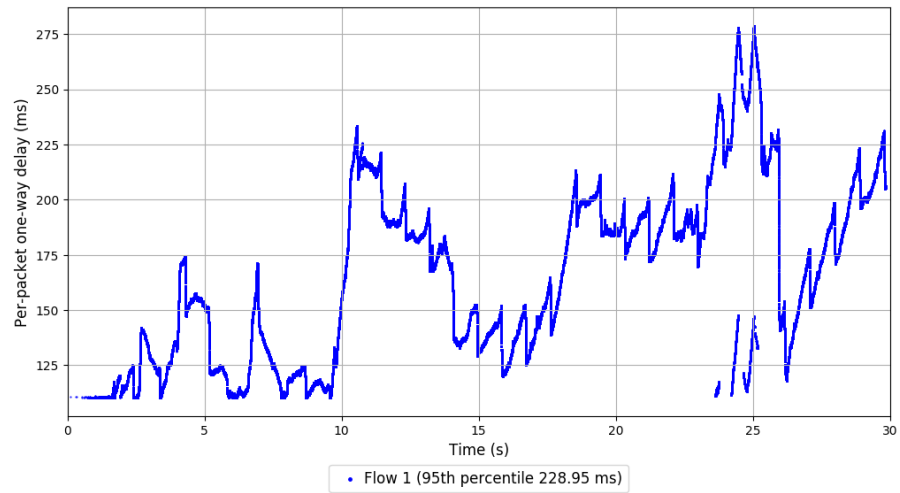
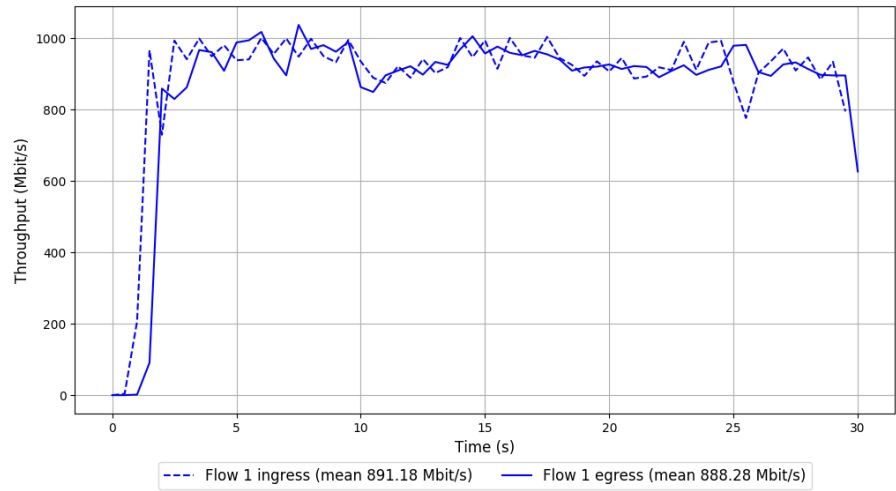


Run 10: Statistics of FillP

Start at: 2018-06-30 02:32:35
End at: 2018-06-30 02:33:06
Local clock offset: -0.21 ms
Remote clock offset: -0.399 ms

Below is generated by plot.py at 2018-06-30 03:39:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 888.28 Mbit/s
95th percentile per-packet one-way delay: 228.950 ms
Loss rate: 1.07%
-- Flow 1:
Average throughput: 888.28 Mbit/s
95th percentile per-packet one-way delay: 228.950 ms
Loss rate: 1.07%

Run 10: Report of FillP — Data Link



Run 1: Statistics of FillP-Sheep

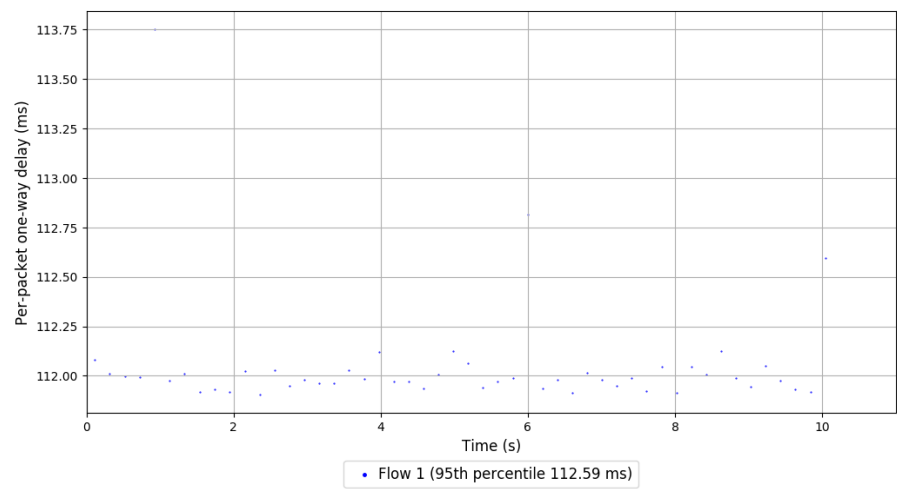
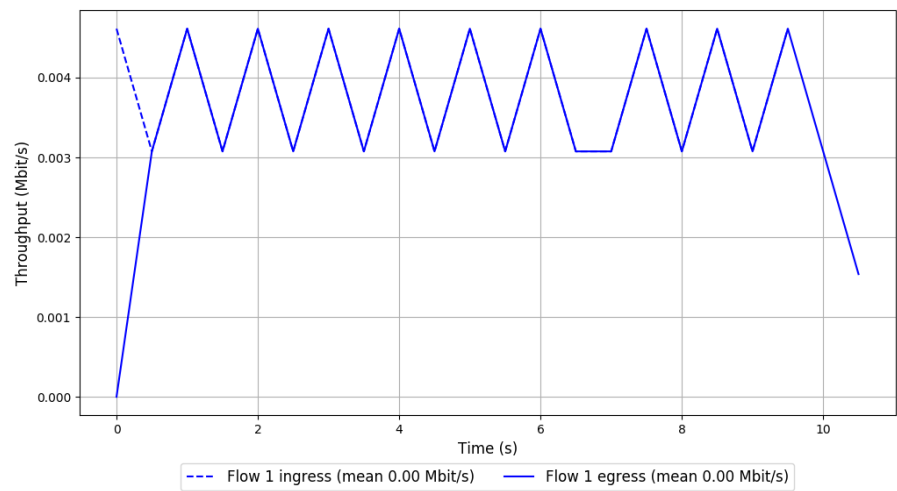
Start at: 2018-06-29 23:16:10

End at: 2018-06-29 23:16:40

Local clock offset: 1.175 ms

Remote clock offset: 0.429 ms

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

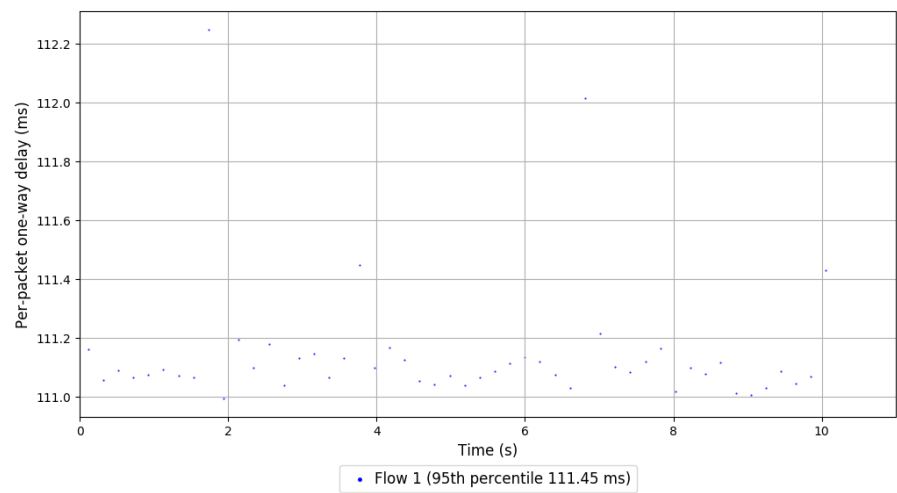
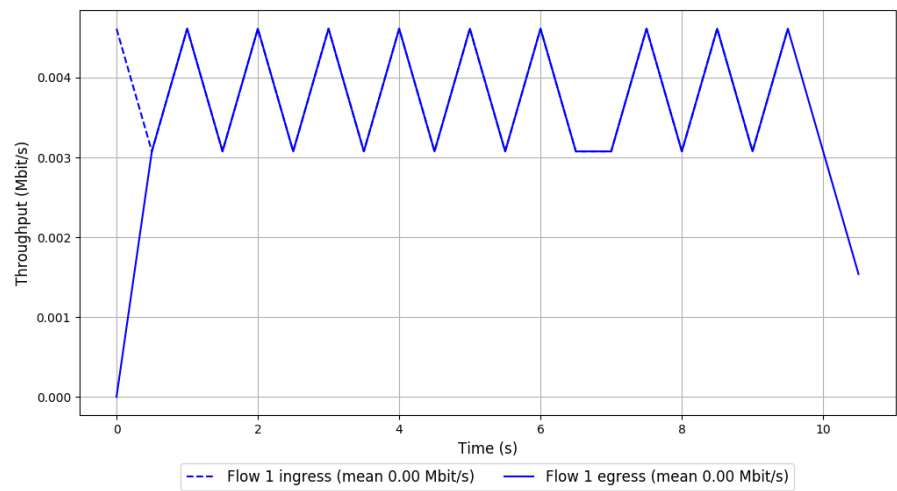
Start at: 2018-06-29 23:38:39

End at: 2018-06-29 23:39:09

Local clock offset: -0.175 ms

Remote clock offset: 0.073 ms

Run 2: Report of FillP-Sheep — Data Link



Run 3: Statistics of FillP-Sheep

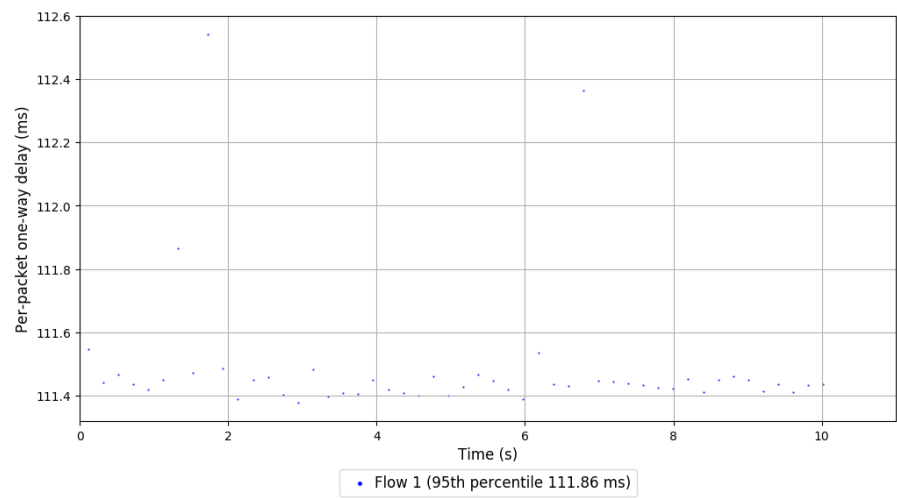
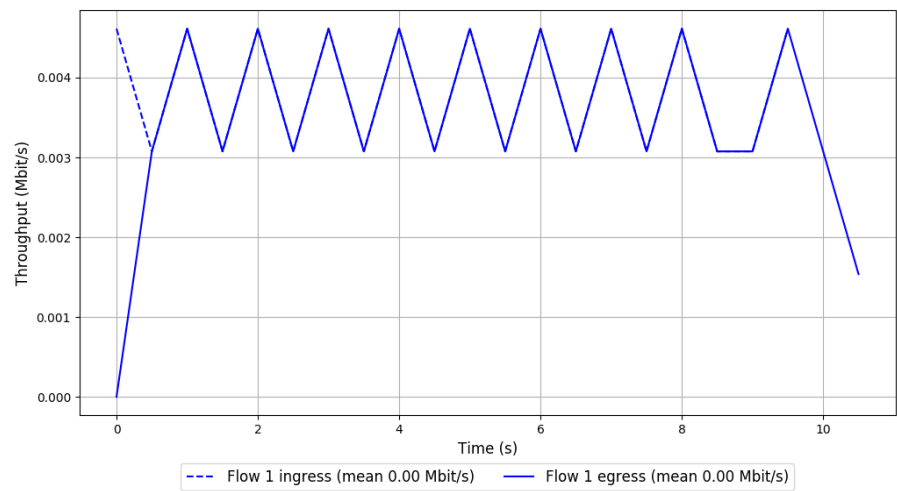
Start at: 2018-06-30 00:01:02

End at: 2018-06-30 00:01:32

Local clock offset: 0.224 ms

Remote clock offset: 0.073 ms

Run 3: Report of FillP-Sheep — Data Link



Run 4: Statistics of FillP-Sheep

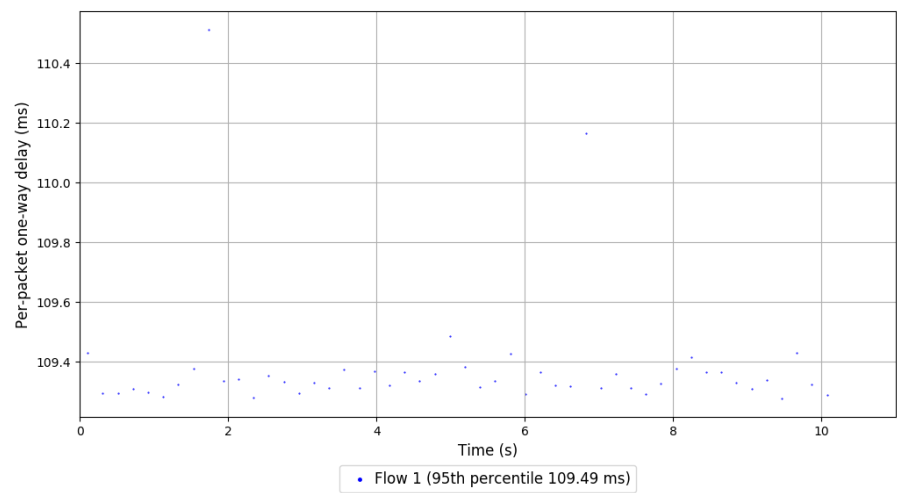
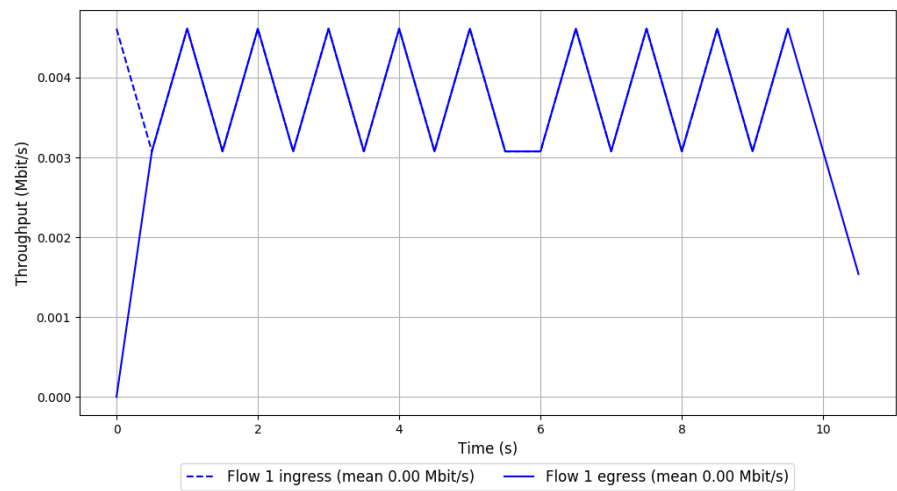
Start at: 2018-06-30 00:23:02

End at: 2018-06-30 00:23:32

Local clock offset: -1.408 ms

Remote clock offset: 0.414 ms

Run 4: Report of FillP-Sheep — Data Link



Run 5: Statistics of FillP-Sheep

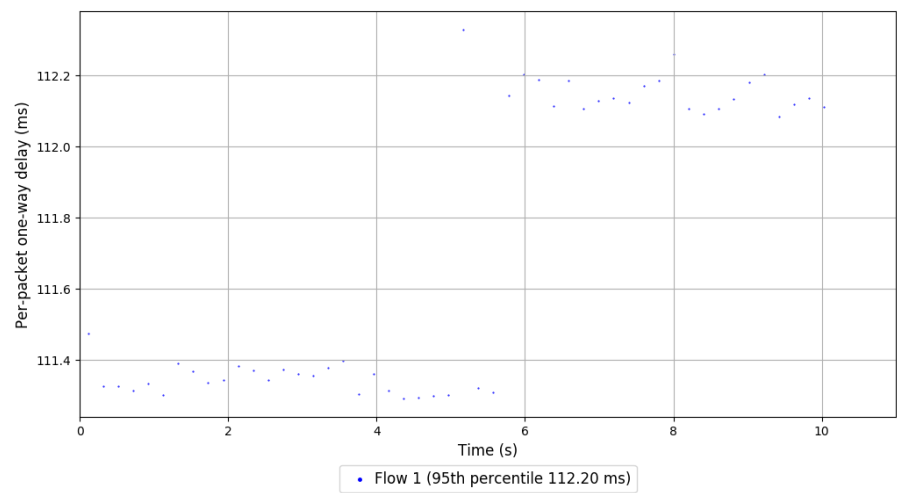
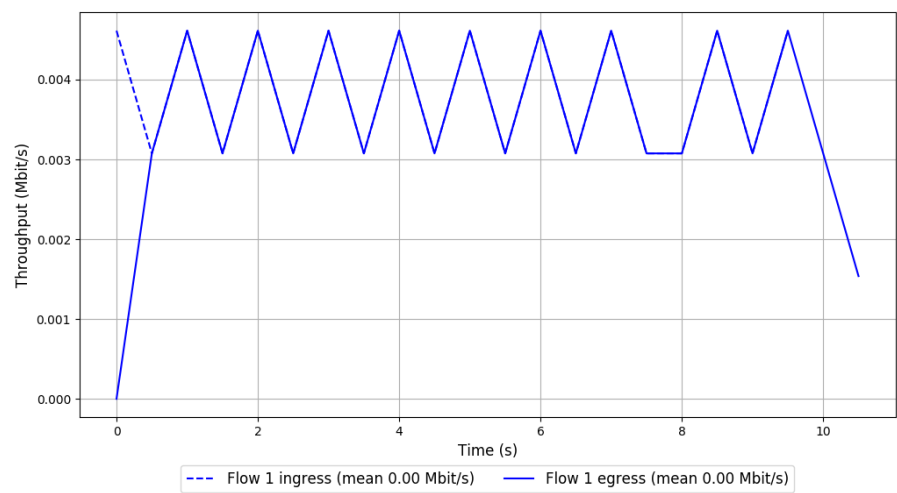
Start at: 2018-06-30 00:45:03

End at: 2018-06-30 00:45:34

Local clock offset: -0.1 ms

Remote clock offset: 0.112 ms

Run 5: Report of FillP-Sheep — Data Link



Run 6: Statistics of FillP-Sheep

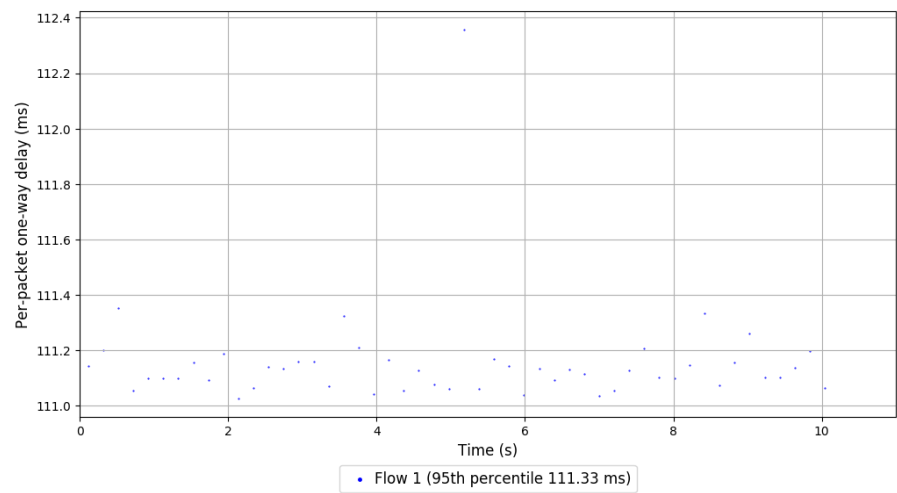
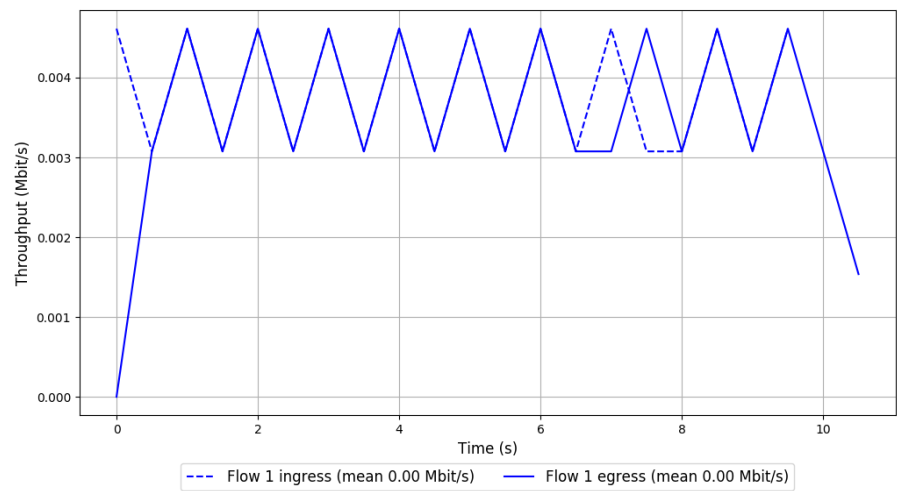
Start at: 2018-06-30 01:07:16

End at: 2018-06-30 01:07:46

Local clock offset: -0.026 ms

Remote clock offset: 0.089 ms

Run 6: Report of FillP-Sheep — Data Link



Run 7: Statistics of FillP-Sheep

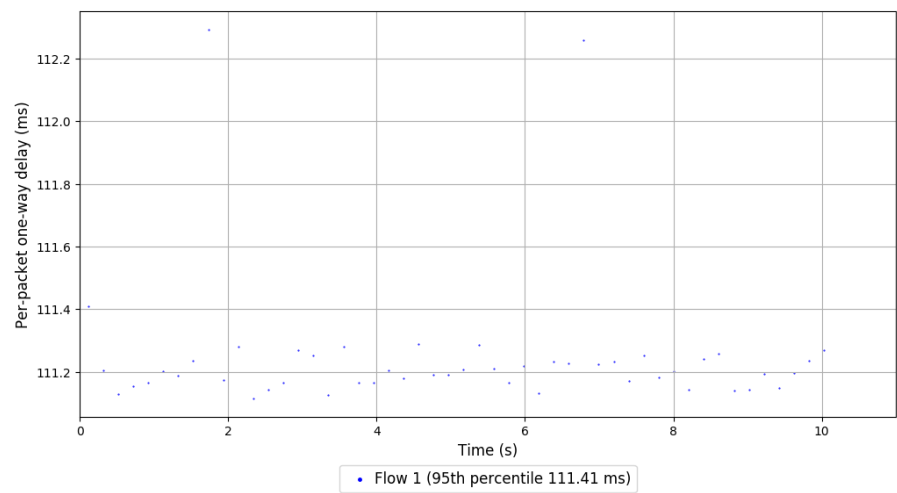
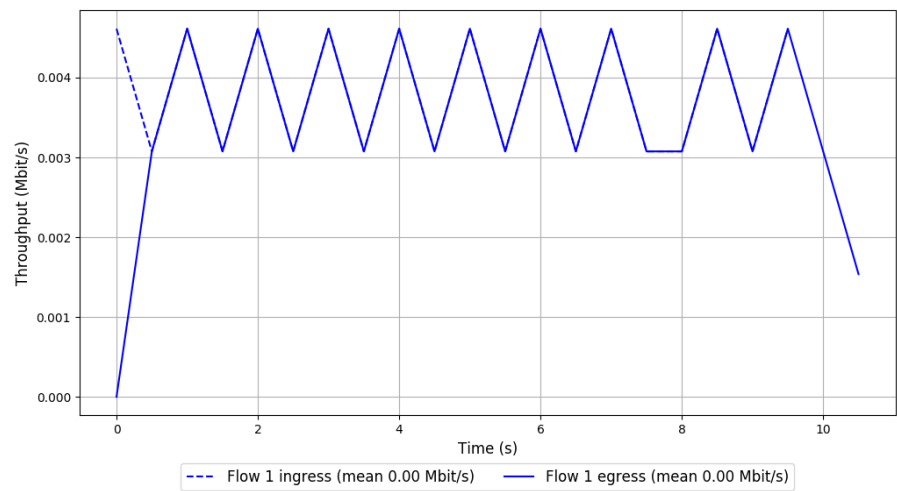
Start at: 2018-06-30 01:29:47

End at: 2018-06-30 01:30:17

Local clock offset: -0.063 ms

Remote clock offset: -0.011 ms

Run 7: Report of FillP-Sheep — Data Link



Run 8: Statistics of FillP-Sheep

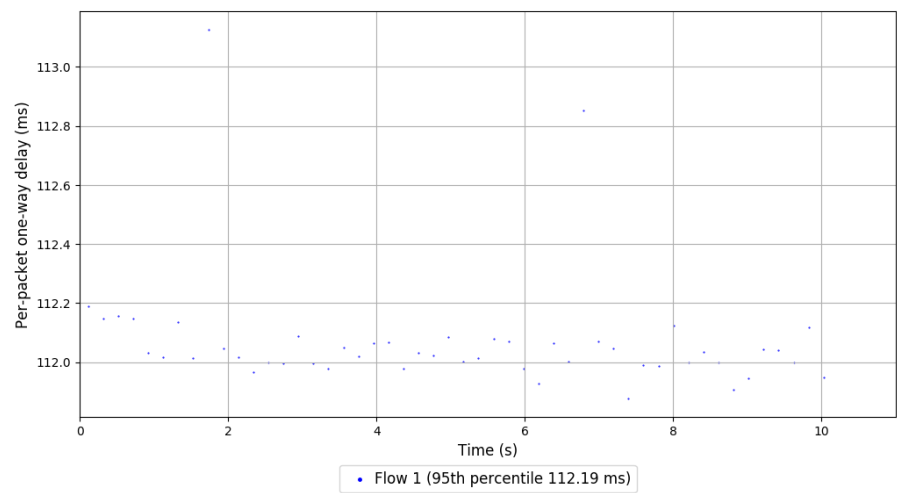
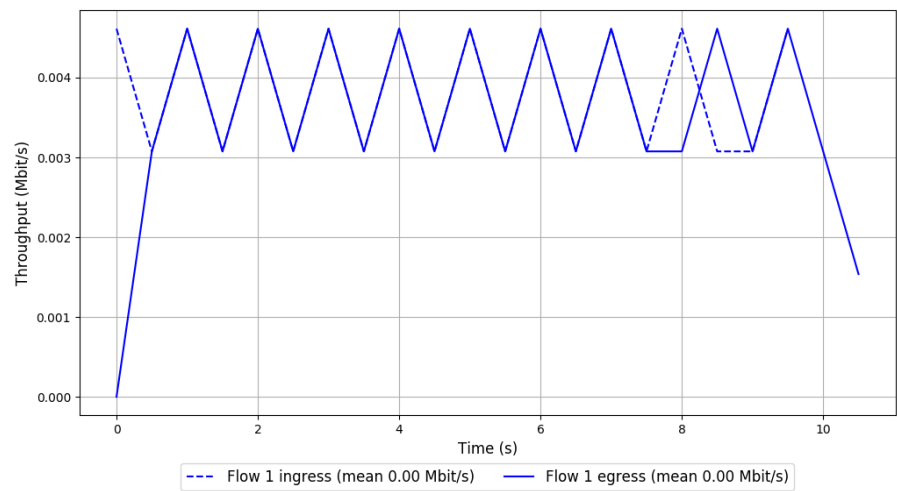
Start at: 2018-06-30 01:52:28

End at: 2018-06-30 01:52:58

Local clock offset: 0.997 ms

Remote clock offset: 0.055 ms

Run 8: Report of FillP-Sheep — Data Link



Run 9: Statistics of FillP-Sheep

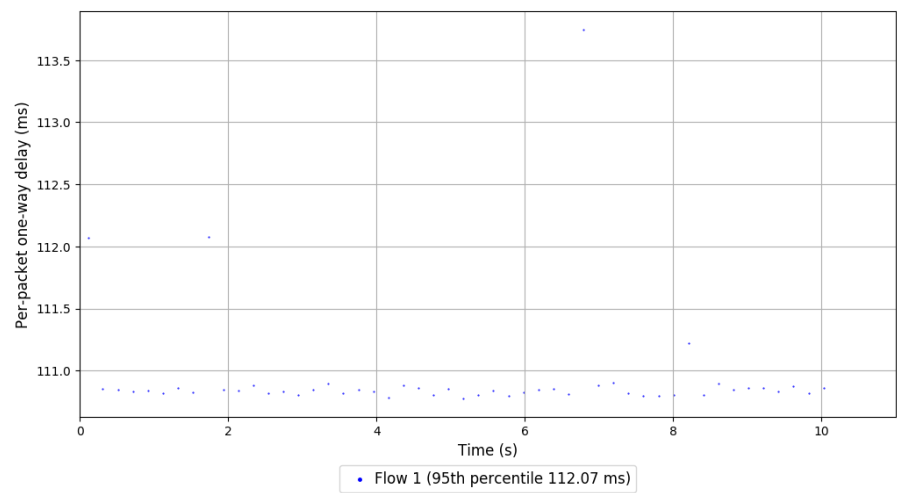
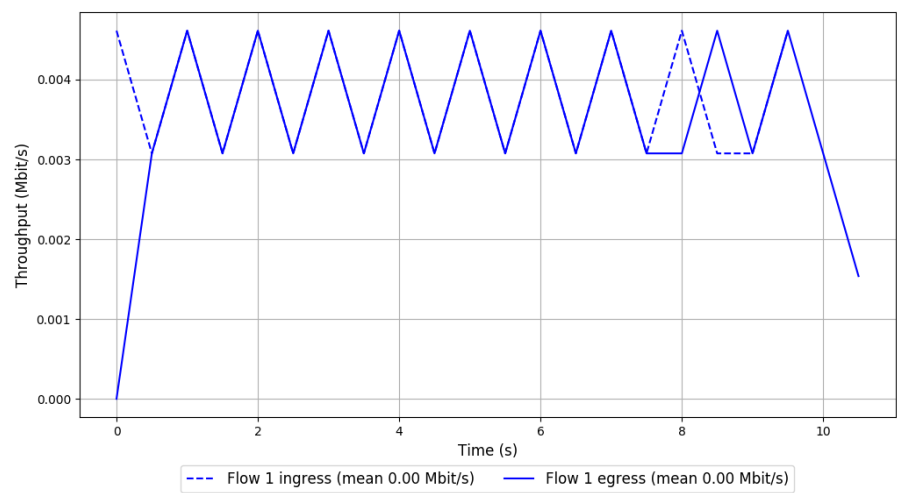
Start at: 2018-06-30 02:14:49

End at: 2018-06-30 02:15:19

Local clock offset: -0.23 ms

Remote clock offset: 0.005 ms

Run 9: Report of FillP-Sheep — Data Link



Run 10: Statistics of FillP-Sheep

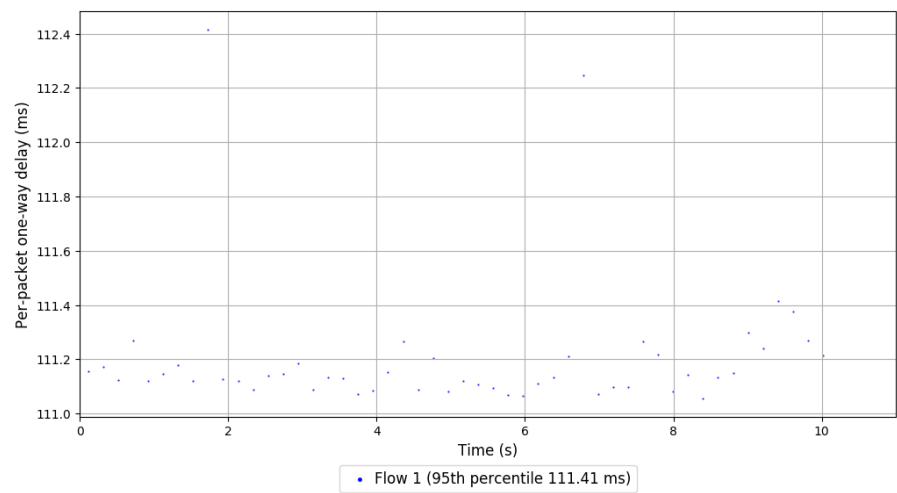
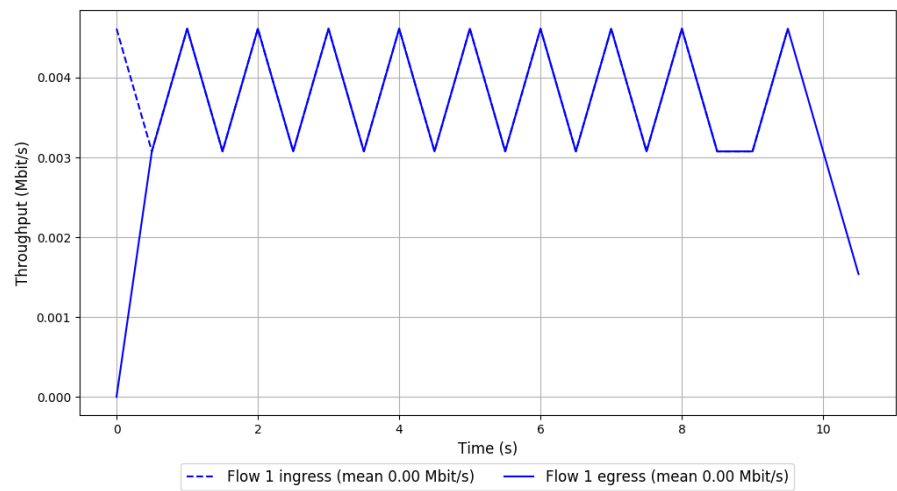
Start at: 2018-06-30 02:37:00

End at: 2018-06-30 02:37:30

Local clock offset: -0.089 ms

Remote clock offset: -0.065 ms

Run 10: Report of FillP-Sheep — Data Link

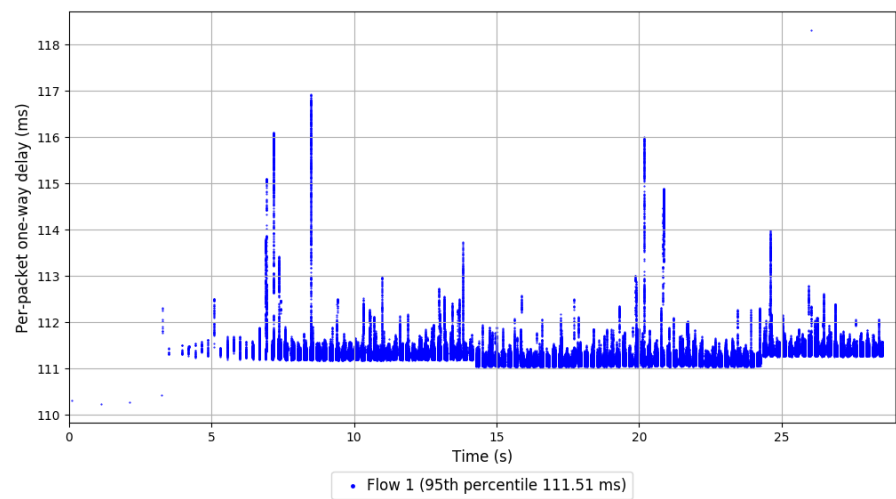
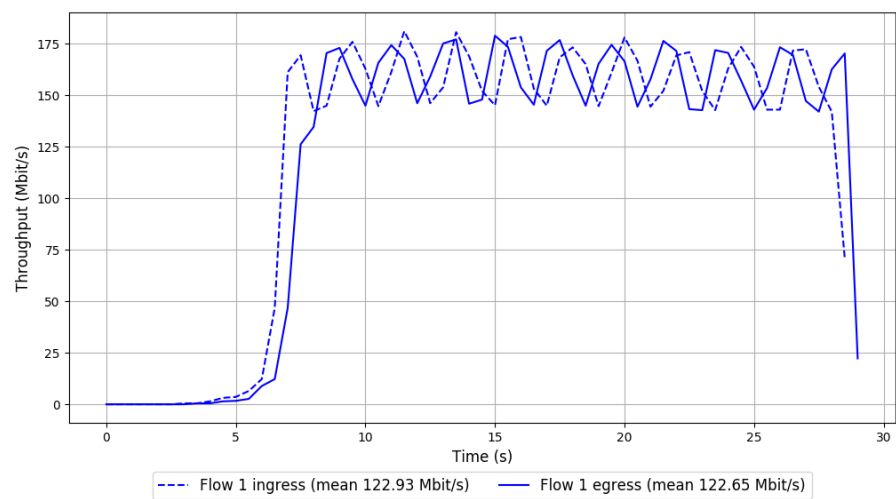


```
Run 1: Statistics of Indigo

Start at: 2018-06-29 23:14:54
End at: 2018-06-29 23:15:24
Local clock offset: -0.195 ms
Remote clock offset: 0.036 ms

# Below is generated by plot.py at 2018-06-30 03:39:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 122.65 Mbit/s
95th percentile per-packet one-way delay: 111.513 ms
Loss rate: 1.01%
-- Flow 1:
Average throughput: 122.65 Mbit/s
95th percentile per-packet one-way delay: 111.513 ms
Loss rate: 1.01%
```

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2018-06-29 23:37:17

End at: 2018-06-29 23:37:47

Local clock offset: -0.181 ms

Remote clock offset: 0.013 ms

Below is generated by plot.py at 2018-06-30 03:39:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 216.28 Mbit/s

95th percentile per-packet one-way delay: 111.311 ms

Loss rate: 0.75%

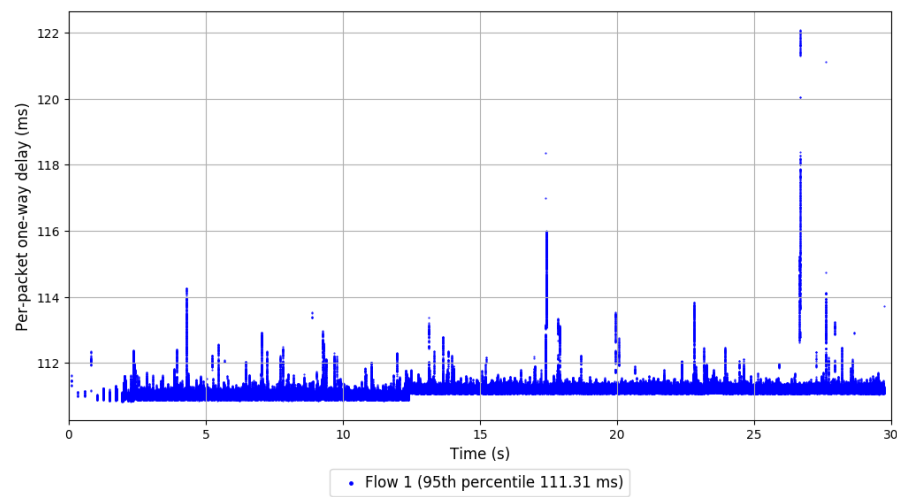
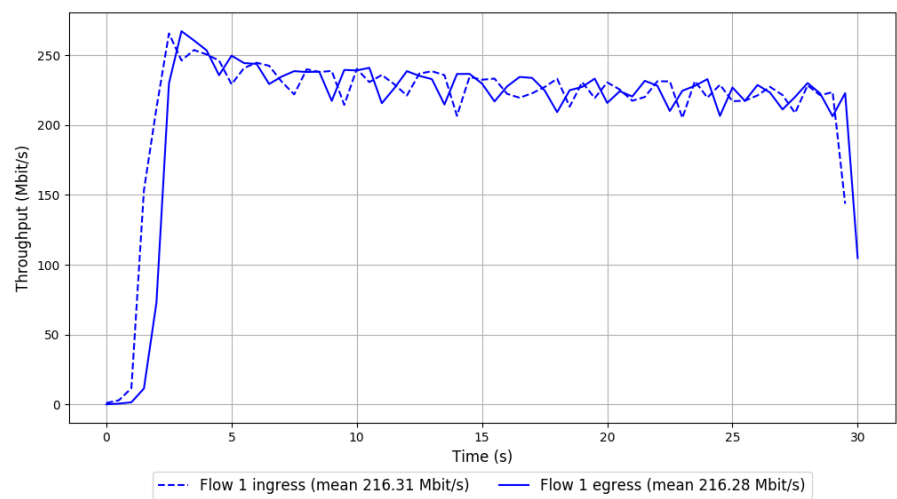
-- Flow 1:

Average throughput: 216.28 Mbit/s

95th percentile per-packet one-way delay: 111.311 ms

Loss rate: 0.75%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-06-29 23:59:39

End at: 2018-06-30 00:00:09

Local clock offset: -0.019 ms

Remote clock offset: 0.067 ms

Below is generated by plot.py at 2018-06-30 03:39:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 218.05 Mbit/s

95th percentile per-packet one-way delay: 111.550 ms

Loss rate: 0.76%

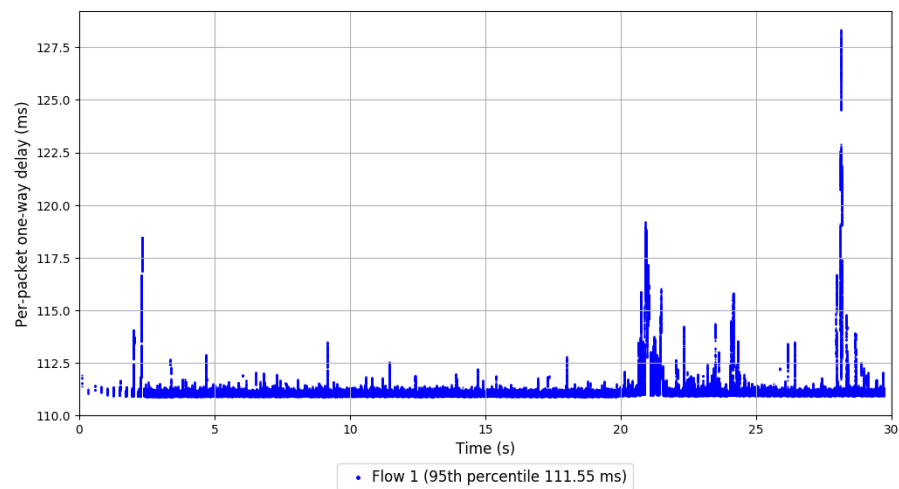
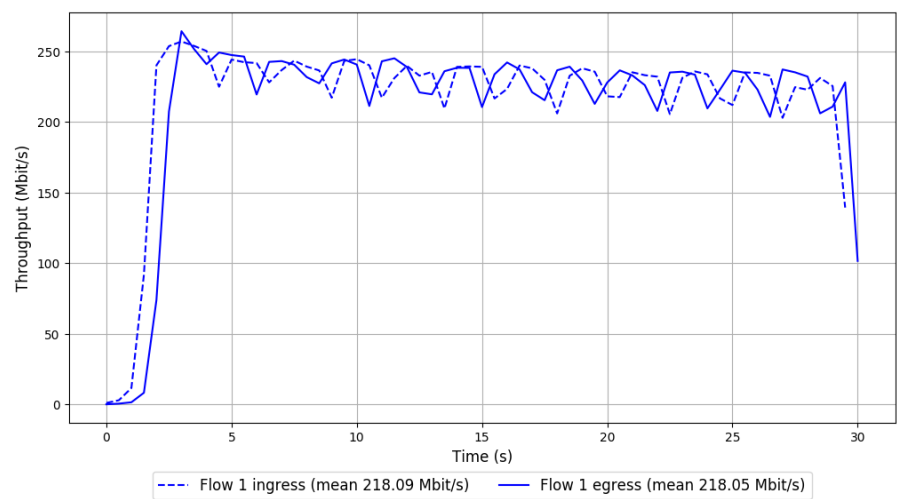
-- Flow 1:

Average throughput: 218.05 Mbit/s

95th percentile per-packet one-way delay: 111.550 ms

Loss rate: 0.76%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-06-30 00:21:44

End at: 2018-06-30 00:22:14

Local clock offset: 1.239 ms

Remote clock offset: 0.13 ms

Below is generated by plot.py at 2018-06-30 03:39:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 151.71 Mbit/s

95th percentile per-packet one-way delay: 113.461 ms

Loss rate: 0.78%

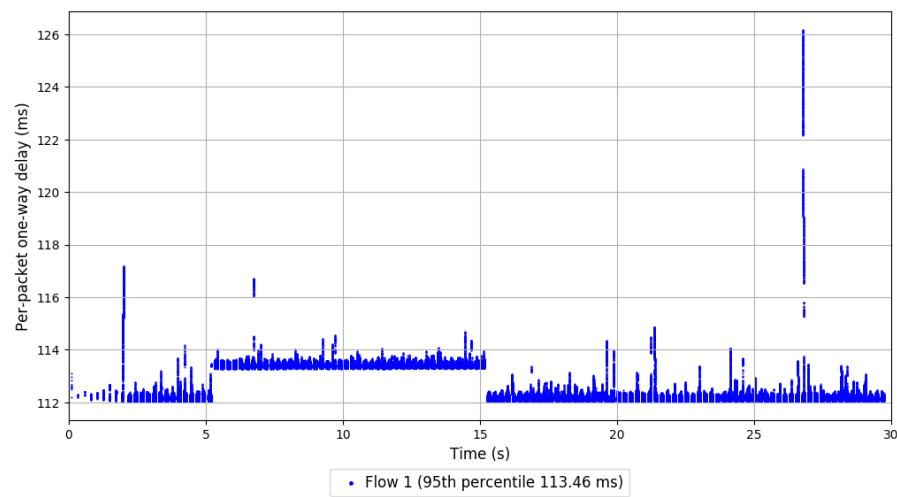
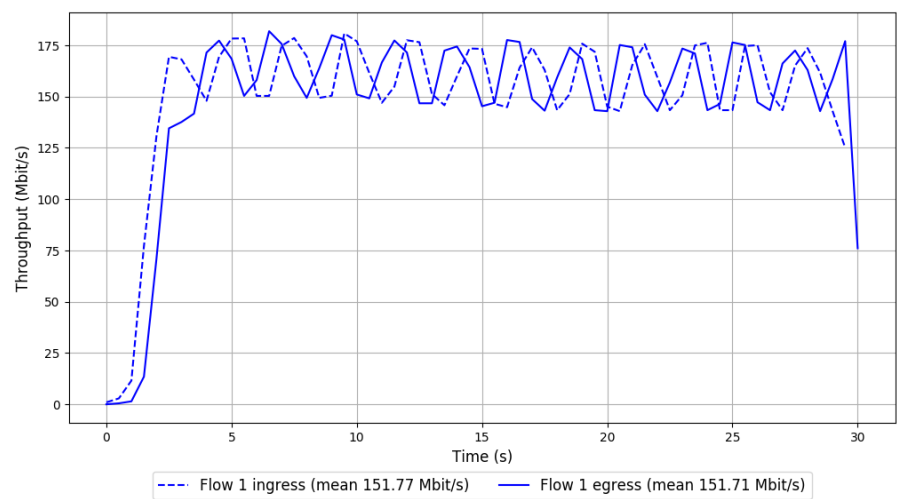
-- Flow 1:

Average throughput: 151.71 Mbit/s

95th percentile per-packet one-way delay: 113.461 ms

Loss rate: 0.78%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-06-30 00:43:41

End at: 2018-06-30 00:44:11

Local clock offset: 0.026 ms

Remote clock offset: 0.099 ms

Below is generated by plot.py at 2018-06-30 03:39:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 215.95 Mbit/s

95th percentile per-packet one-way delay: 112.341 ms

Loss rate: 0.76%

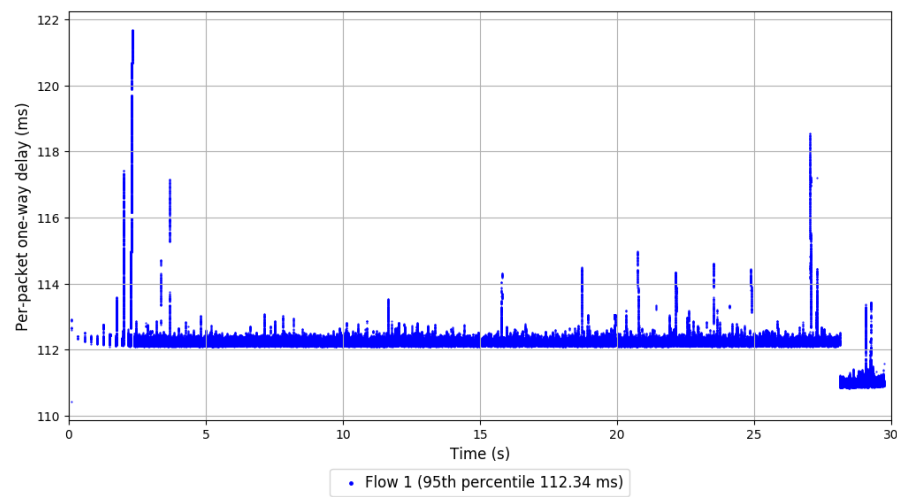
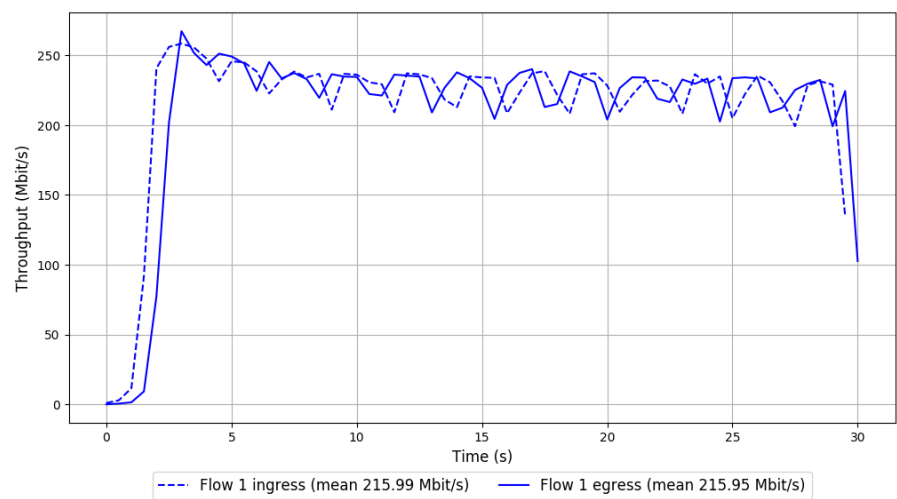
-- Flow 1:

Average throughput: 215.95 Mbit/s

95th percentile per-packet one-way delay: 112.341 ms

Loss rate: 0.76%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2018-06-30 01:05:58

End at: 2018-06-30 01:06:28

Local clock offset: -0.368 ms

Remote clock offset: 0.072 ms

Below is generated by plot.py at 2018-06-30 03:39:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 146.82 Mbit/s

95th percentile per-packet one-way delay: 110.923 ms

Loss rate: 0.80%

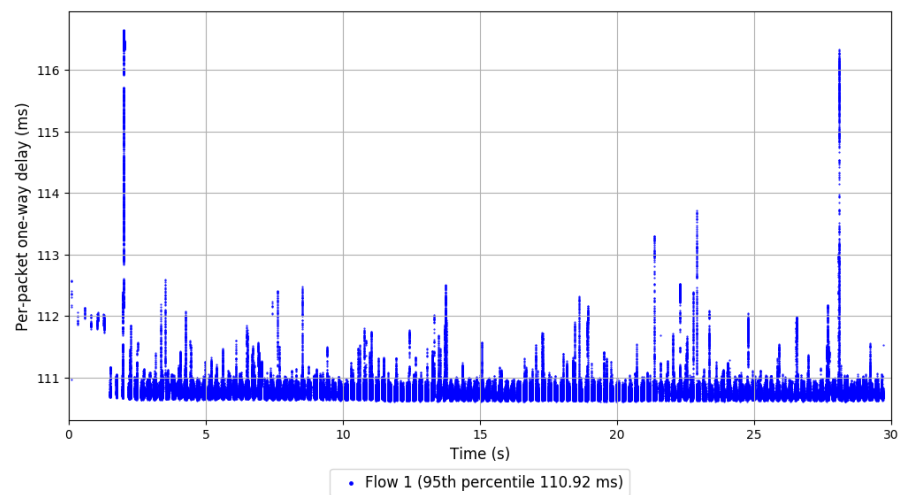
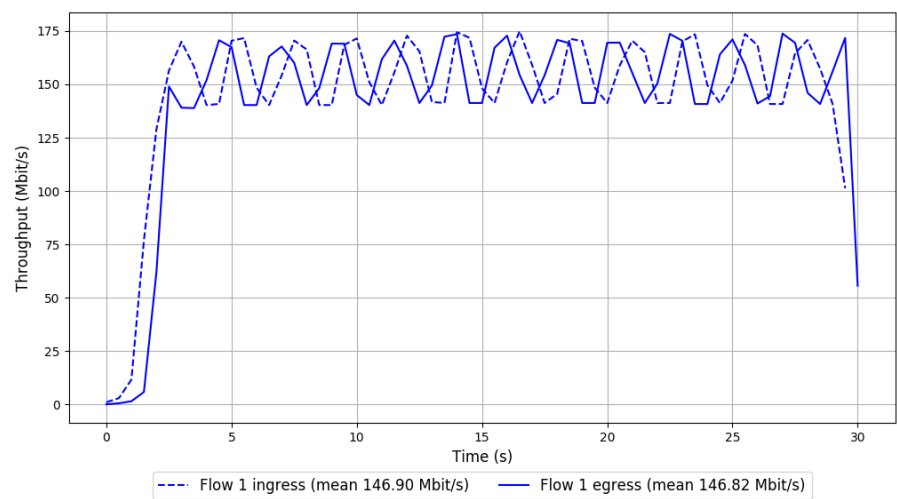
-- Flow 1:

Average throughput: 146.82 Mbit/s

95th percentile per-packet one-way delay: 110.923 ms

Loss rate: 0.80%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2018-06-30 01:28:25

End at: 2018-06-30 01:28:55

Local clock offset: -0.049 ms

Remote clock offset: 0.029 ms

Below is generated by plot.py at 2018-06-30 03:39:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 218.78 Mbit/s

95th percentile per-packet one-way delay: 111.245 ms

Loss rate: 0.71%

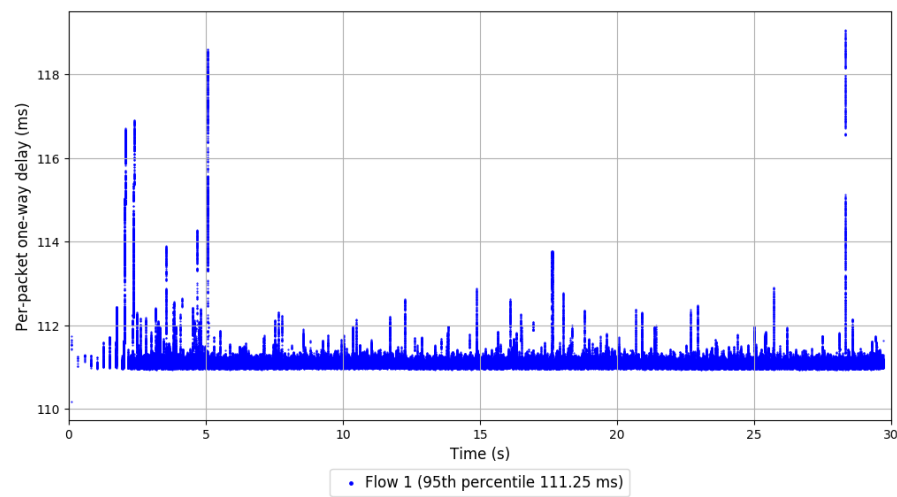
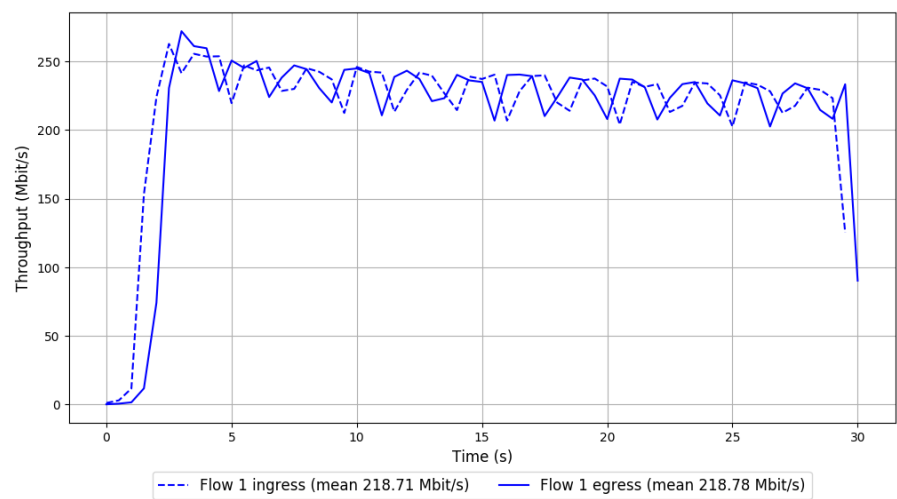
-- Flow 1:

Average throughput: 218.78 Mbit/s

95th percentile per-packet one-way delay: 111.245 ms

Loss rate: 0.71%

Run 7: Report of Indigo — Data Link

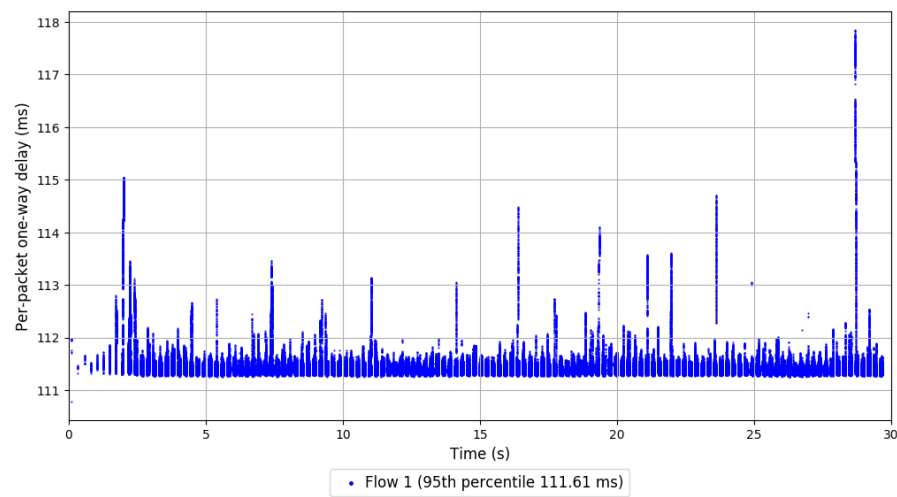
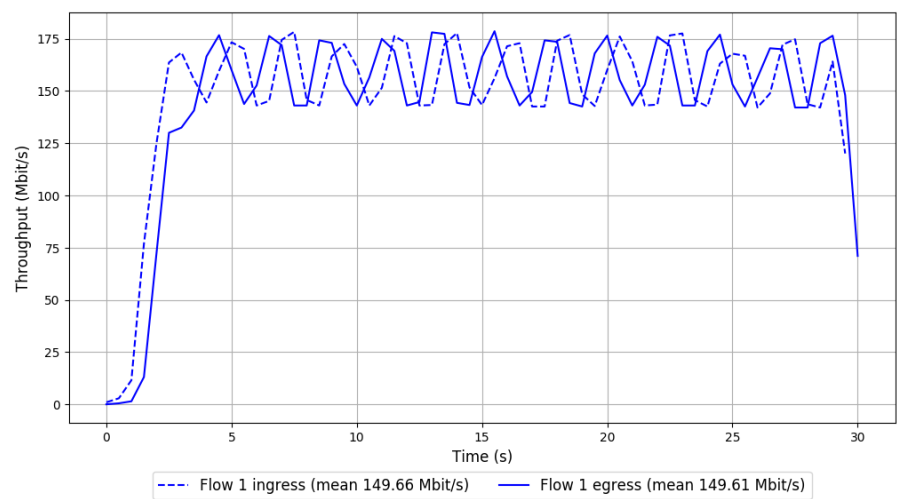


Run 8: Statistics of Indigo

Start at: 2018-06-30 01:51:10
End at: 2018-06-30 01:51:40
Local clock offset: -0.114 ms
Remote clock offset: -0.349 ms

Below is generated by plot.py at 2018-06-30 03:39:30
Datalink statistics
-- Total of 1 flow:
Average throughput: 149.61 Mbit/s
95th percentile per-packet one-way delay: 111.612 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 149.61 Mbit/s
95th percentile per-packet one-way delay: 111.612 ms
Loss rate: 0.80%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2018-06-30 02:13:31

End at: 2018-06-30 02:14:01

Local clock offset: 0.113 ms

Remote clock offset: 0.009 ms

Below is generated by plot.py at 2018-06-30 03:39:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 147.49 Mbit/s

95th percentile per-packet one-way delay: 111.481 ms

Loss rate: 0.78%

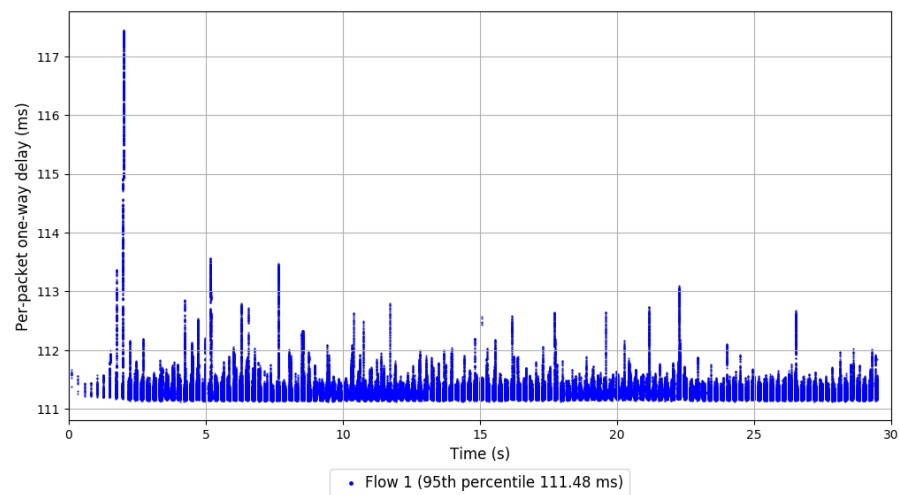
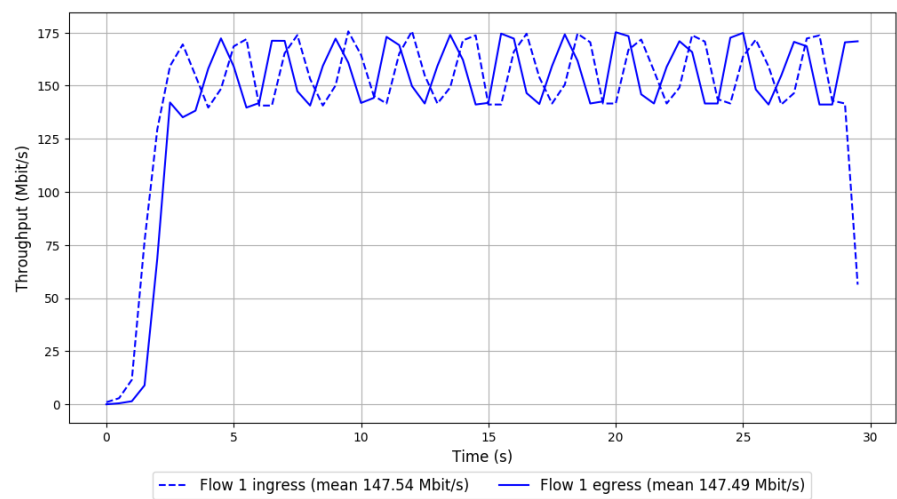
-- Flow 1:

Average throughput: 147.49 Mbit/s

95th percentile per-packet one-way delay: 111.481 ms

Loss rate: 0.78%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-06-30 02:35:42

End at: 2018-06-30 02:36:12

Local clock offset: -0.008 ms

Remote clock offset: -0.032 ms

Below is generated by plot.py at 2018-06-30 03:39:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 146.48 Mbit/s

95th percentile per-packet one-way delay: 111.826 ms

Loss rate: 0.79%

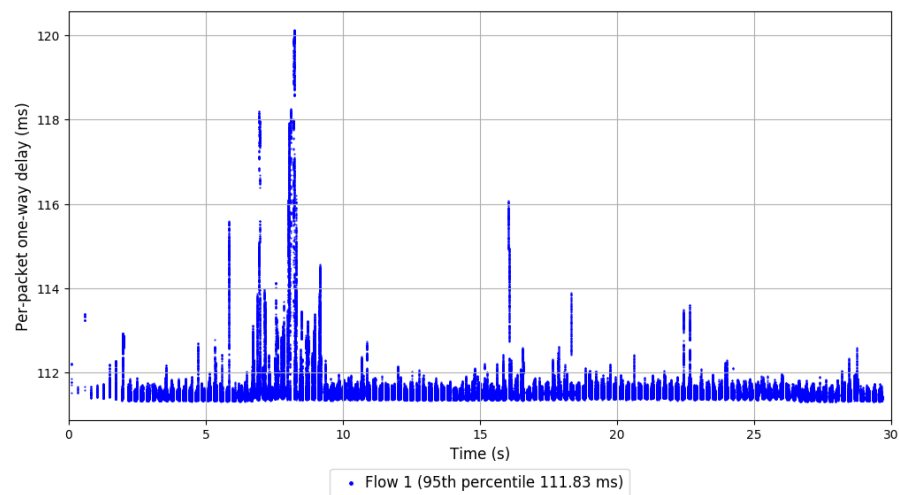
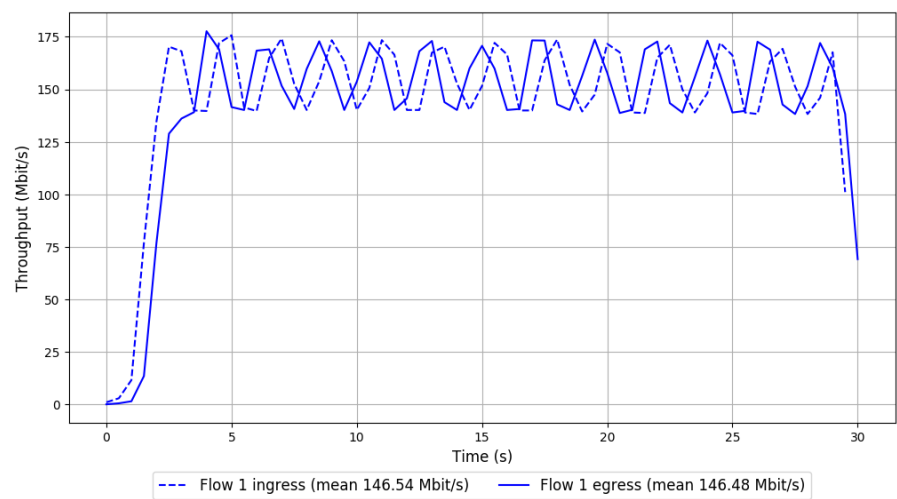
-- Flow 1:

Average throughput: 146.48 Mbit/s

95th percentile per-packet one-way delay: 111.826 ms

Loss rate: 0.79%

Run 10: Report of Indigo — Data Link

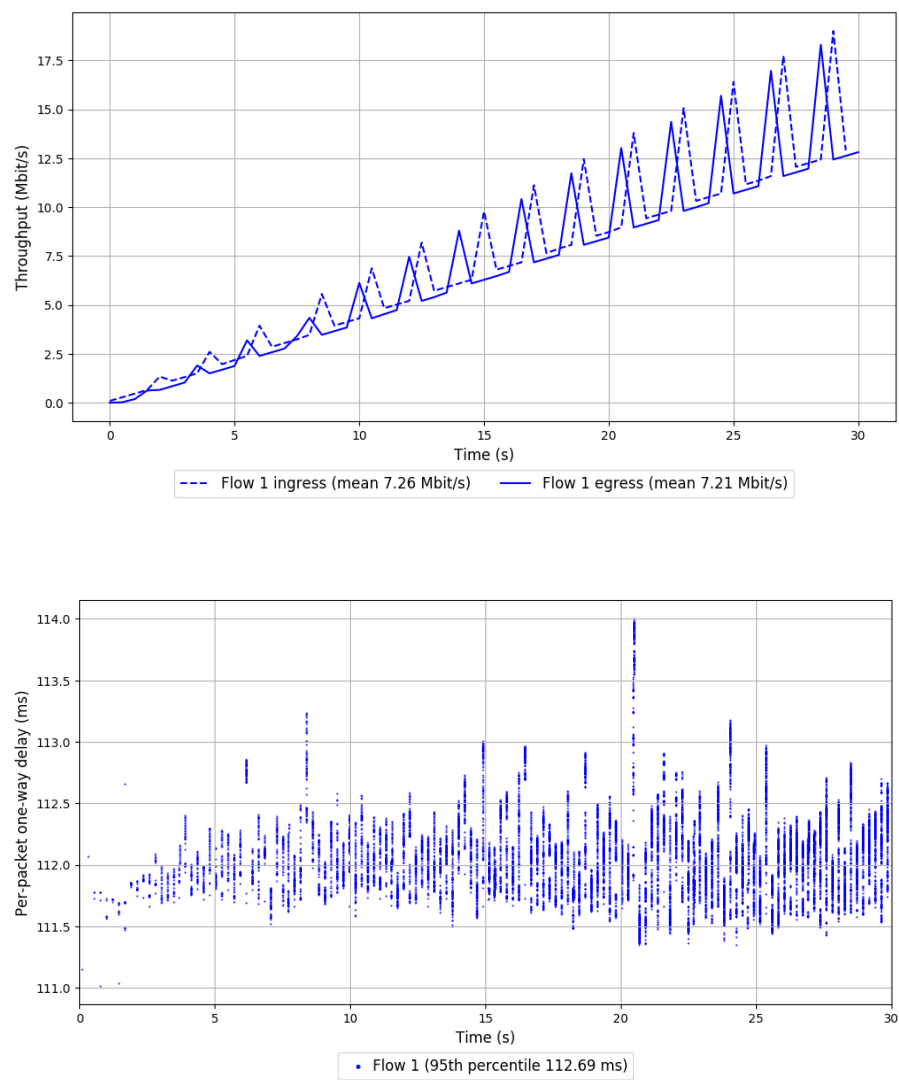


```
Run 1: Statistics of LEDBAT

Start at: 2018-06-29 23:09:30
End at: 2018-06-29 23:10:00
Local clock offset: -0.032 ms
Remote clock offset: 0.052 ms

# Below is generated by plot.py at 2018-06-30 03:39:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.21 Mbit/s
95th percentile per-packet one-way delay: 112.690 ms
Loss rate: 1.49%
-- Flow 1:
Average throughput: 7.21 Mbit/s
95th percentile per-packet one-way delay: 112.690 ms
Loss rate: 1.49%
```


Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-06-29 23:31:46

End at: 2018-06-29 23:32:16

Local clock offset: 0.197 ms

Remote clock offset: 0.024 ms

Below is generated by plot.py at 2018-06-30 03:39:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.12 Mbit/s

95th percentile per-packet one-way delay: 112.495 ms

Loss rate: 1.49%

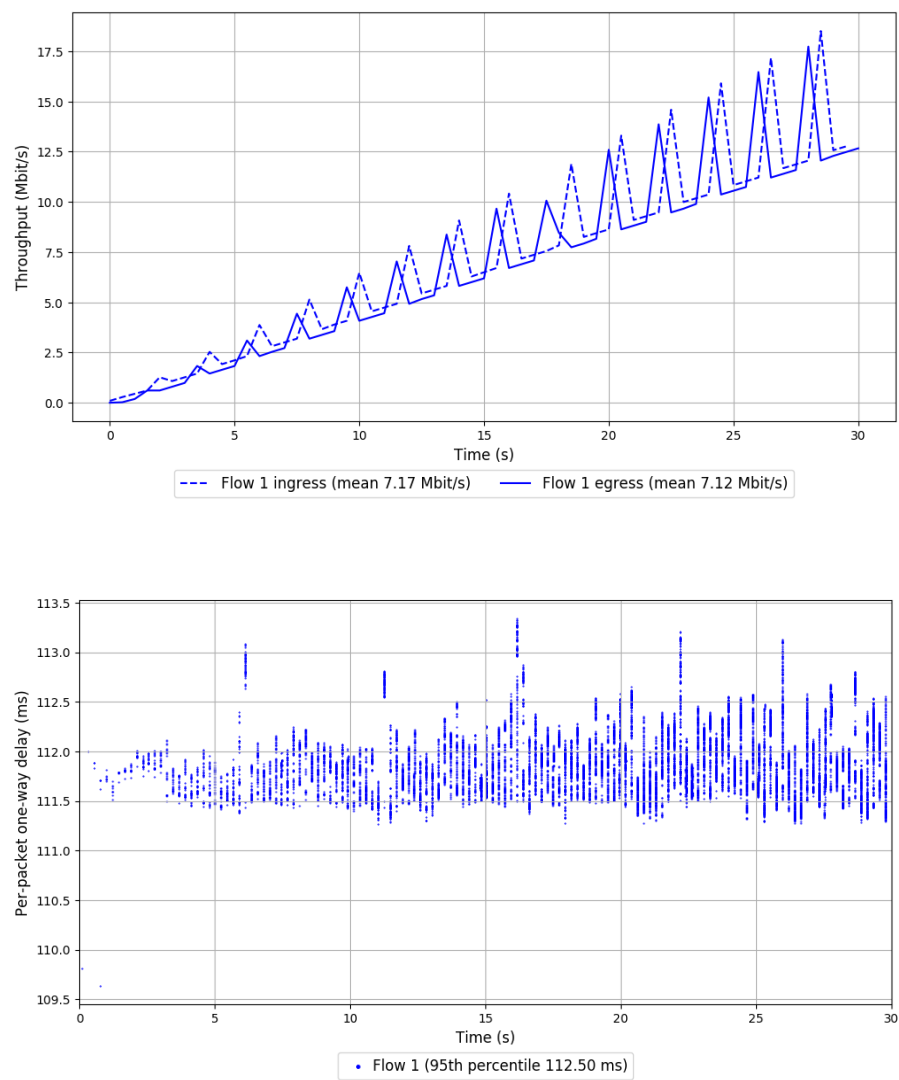
-- Flow 1:

Average throughput: 7.12 Mbit/s

95th percentile per-packet one-way delay: 112.495 ms

Loss rate: 1.49%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-06-29 23:54:09

End at: 2018-06-29 23:54:39

Local clock offset: -0.215 ms

Remote clock offset: 0.09 ms

Below is generated by plot.py at 2018-06-30 03:39:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.49 Mbit/s

95th percentile per-packet one-way delay: 112.333 ms

Loss rate: 2.11%

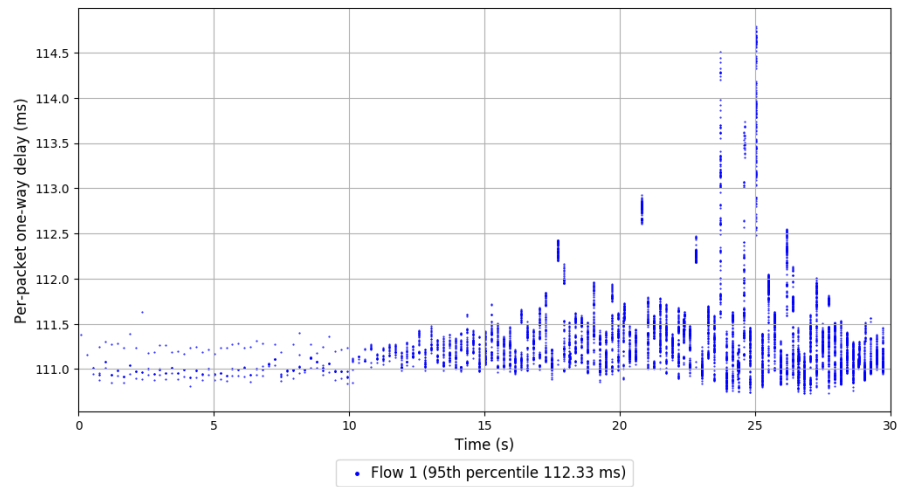
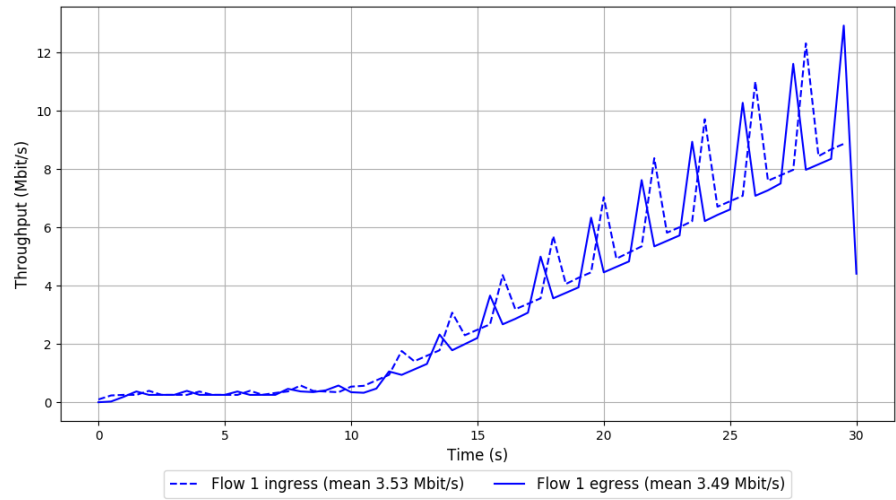
-- Flow 1:

Average throughput: 3.49 Mbit/s

95th percentile per-packet one-way delay: 112.333 ms

Loss rate: 2.11%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-06-30 00:16:18

End at: 2018-06-30 00:16:48

Local clock offset: 0.128 ms

Remote clock offset: 0.116 ms

Below is generated by plot.py at 2018-06-30 03:39:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.89 Mbit/s

95th percentile per-packet one-way delay: 112.332 ms

Loss rate: 1.53%

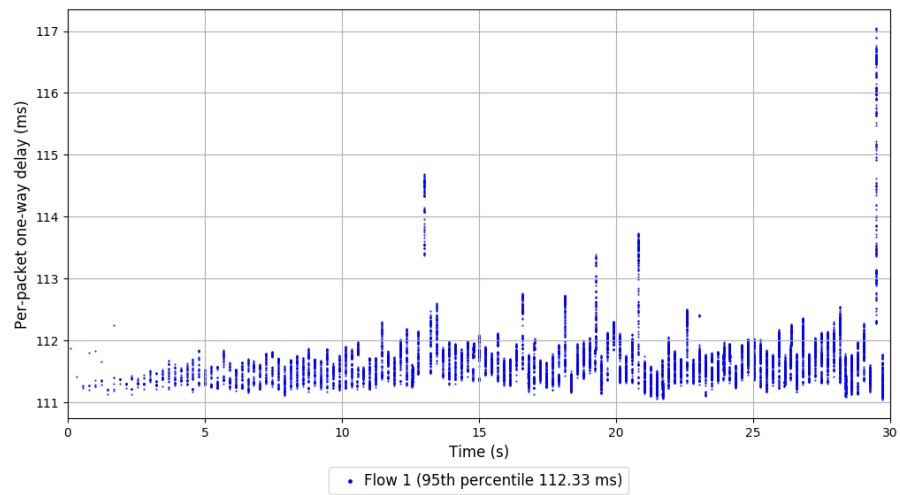
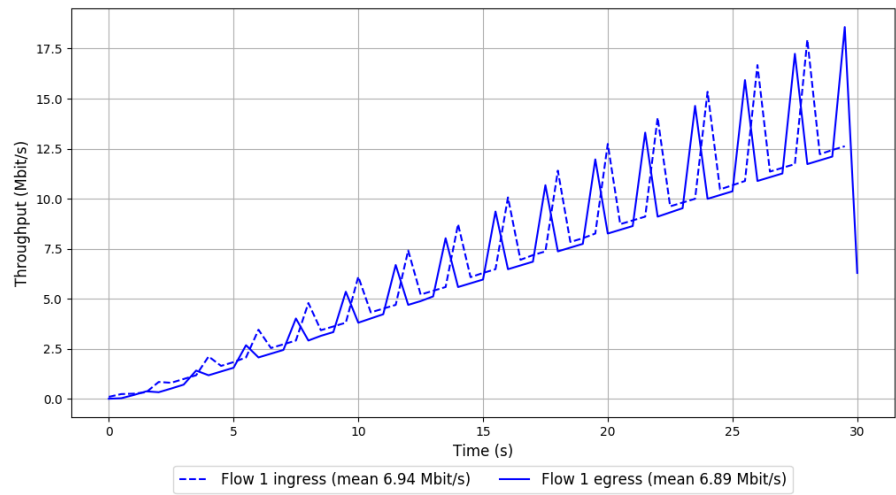
-- Flow 1:

Average throughput: 6.89 Mbit/s

95th percentile per-packet one-way delay: 112.332 ms

Loss rate: 1.53%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-06-30 00:38:08

End at: 2018-06-30 00:38:38

Local clock offset: 1.229 ms

Remote clock offset: 0.123 ms

Below is generated by plot.py at 2018-06-30 03:39:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.65 Mbit/s

95th percentile per-packet one-way delay: 113.176 ms

Loss rate: 1.55%

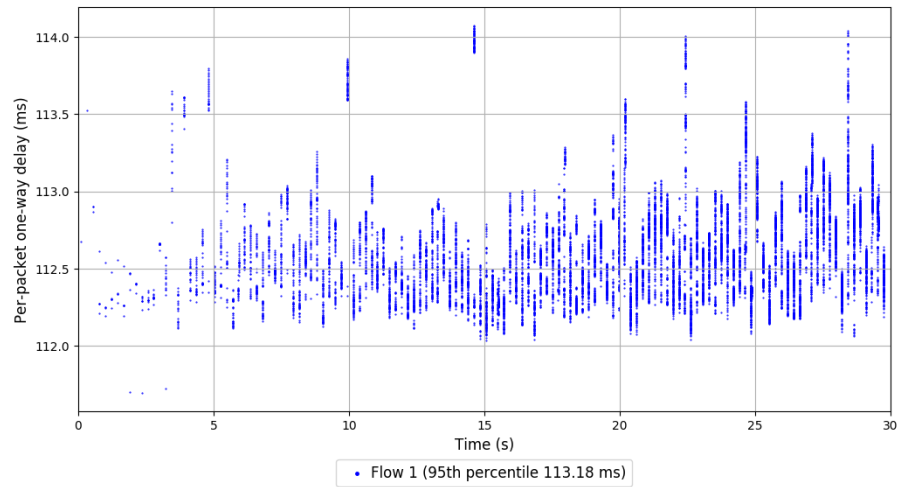
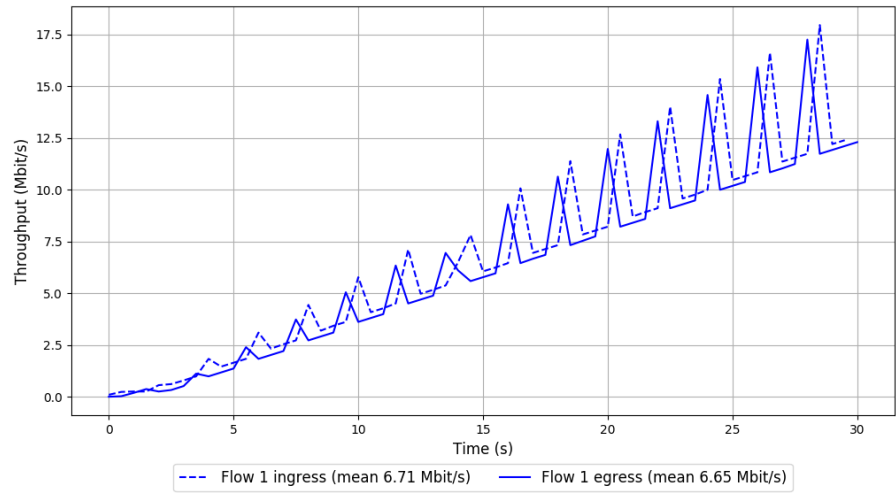
-- Flow 1:

Average throughput: 6.65 Mbit/s

95th percentile per-packet one-way delay: 113.176 ms

Loss rate: 1.55%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-06-30 01:00:33

End at: 2018-06-30 01:01:03

Local clock offset: 0.218 ms

Remote clock offset: 0.128 ms

Below is generated by plot.py at 2018-06-30 03:39:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.21 Mbit/s

95th percentile per-packet one-way delay: 113.368 ms

Loss rate: 1.49%

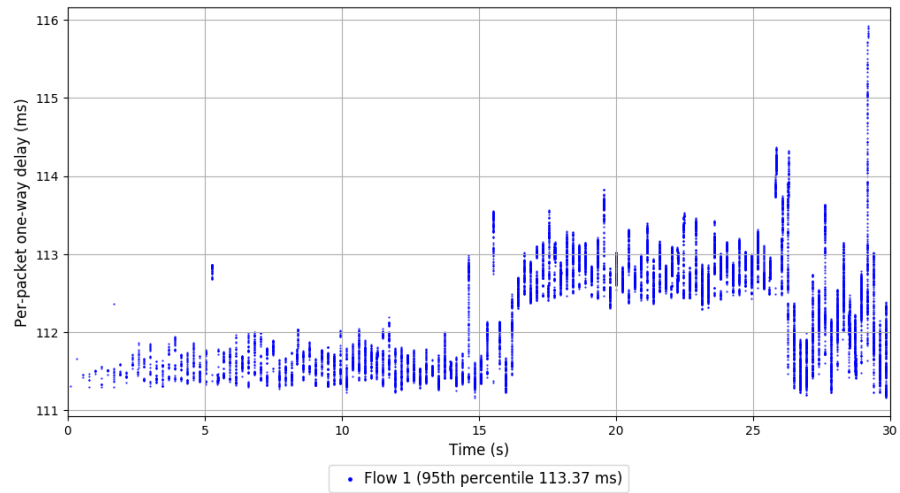
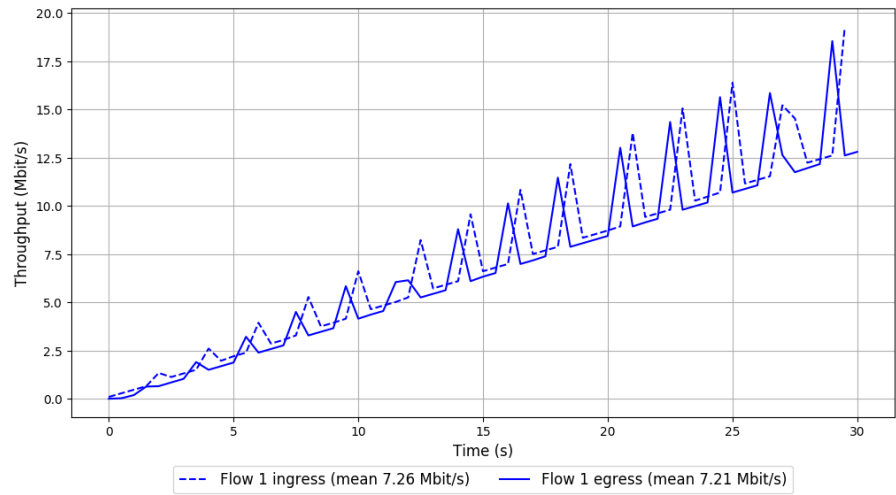
-- Flow 1:

Average throughput: 7.21 Mbit/s

95th percentile per-packet one-way delay: 113.368 ms

Loss rate: 1.49%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-06-30 01:22:49

End at: 2018-06-30 01:23:19

Local clock offset: -1.418 ms

Remote clock offset: 0.021 ms

Below is generated by plot.py at 2018-06-30 03:39:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.23 Mbit/s

95th percentile per-packet one-way delay: 110.761 ms

Loss rate: 1.49%

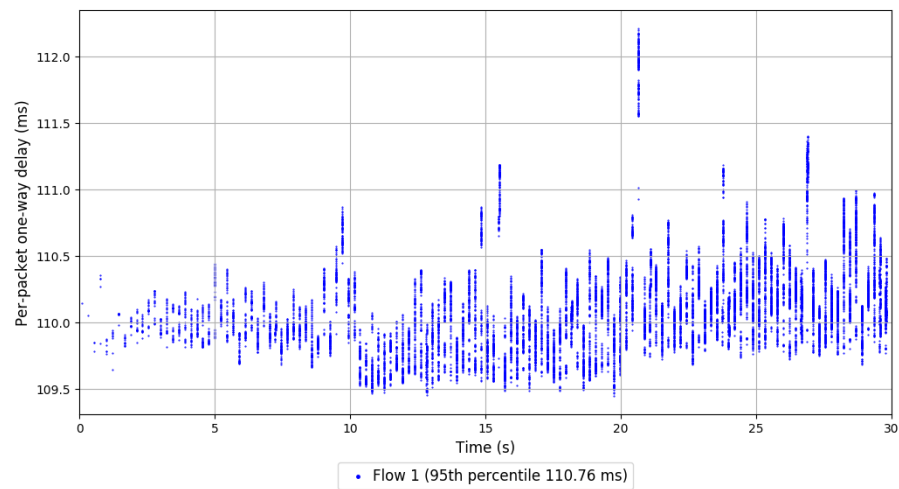
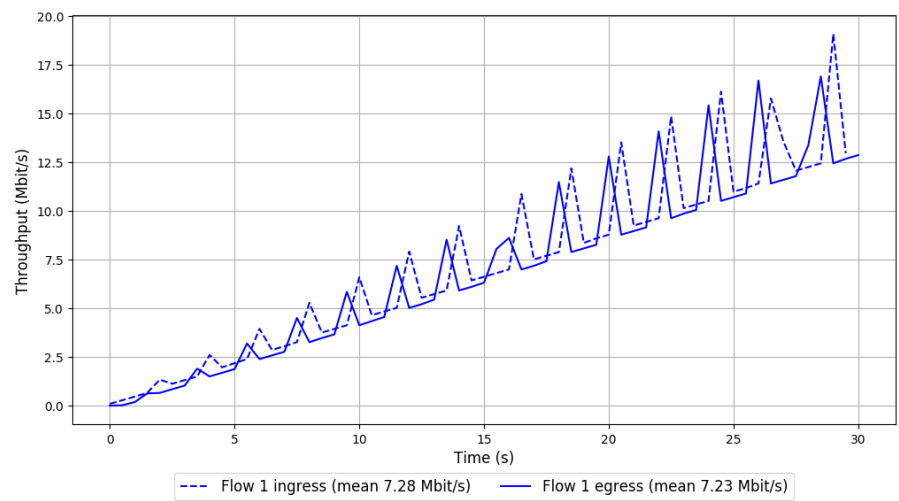
-- Flow 1:

Average throughput: 7.23 Mbit/s

95th percentile per-packet one-way delay: 110.761 ms

Loss rate: 1.49%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-06-30 01:45:33

End at: 2018-06-30 01:46:03

Local clock offset: 0.144 ms

Remote clock offset: 0.409 ms

Below is generated by plot.py at 2018-06-30 03:39:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.53 Mbit/s

95th percentile per-packet one-way delay: 111.579 ms

Loss rate: 2.10%

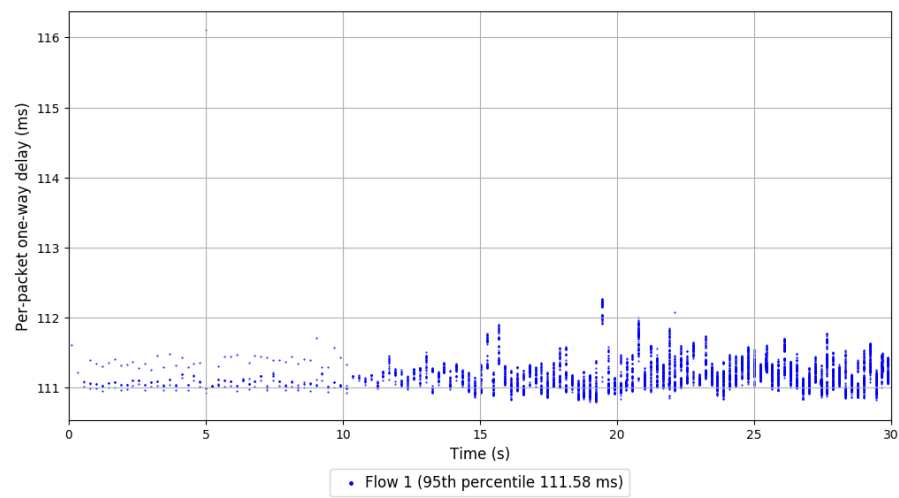
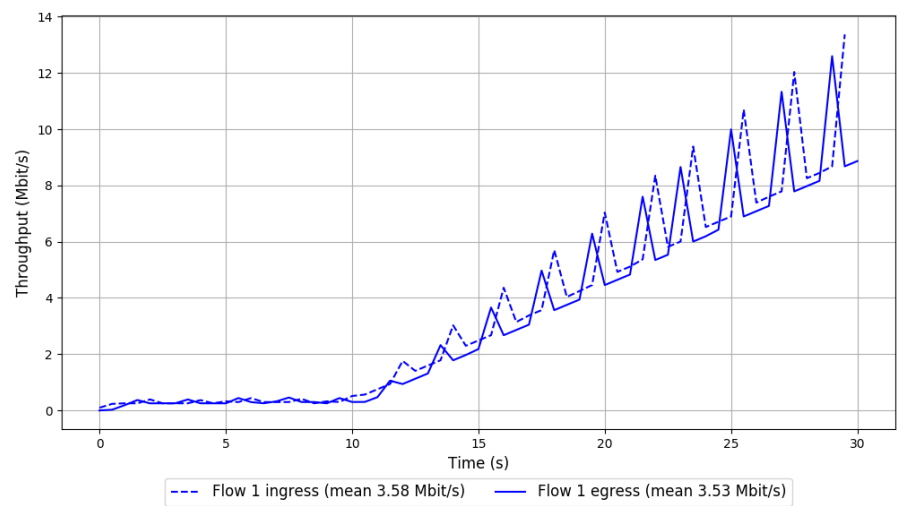
-- Flow 1:

Average throughput: 3.53 Mbit/s

95th percentile per-packet one-way delay: 111.579 ms

Loss rate: 2.10%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-06-30 02:07:56

End at: 2018-06-30 02:08:26

Local clock offset: 1.337 ms

Remote clock offset: 0.045 ms

Below is generated by plot.py at 2018-06-30 03:39:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.23 Mbit/s

95th percentile per-packet one-way delay: 113.803 ms

Loss rate: 1.49%

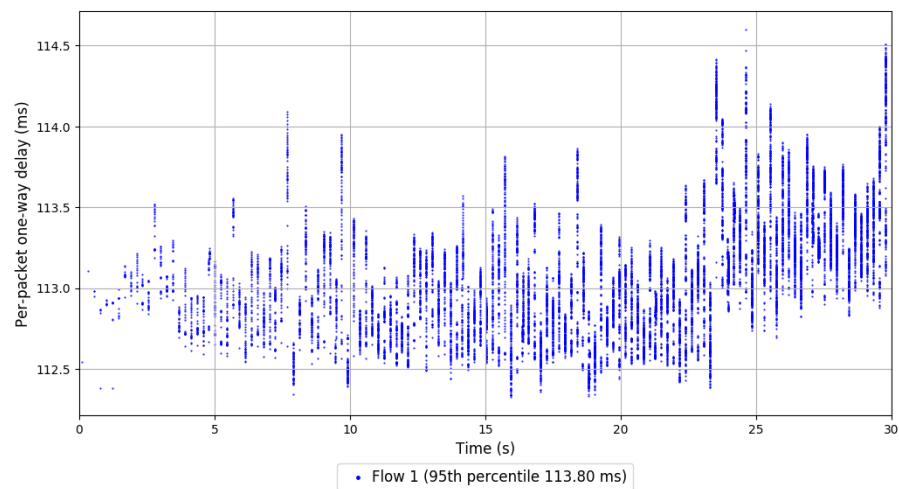
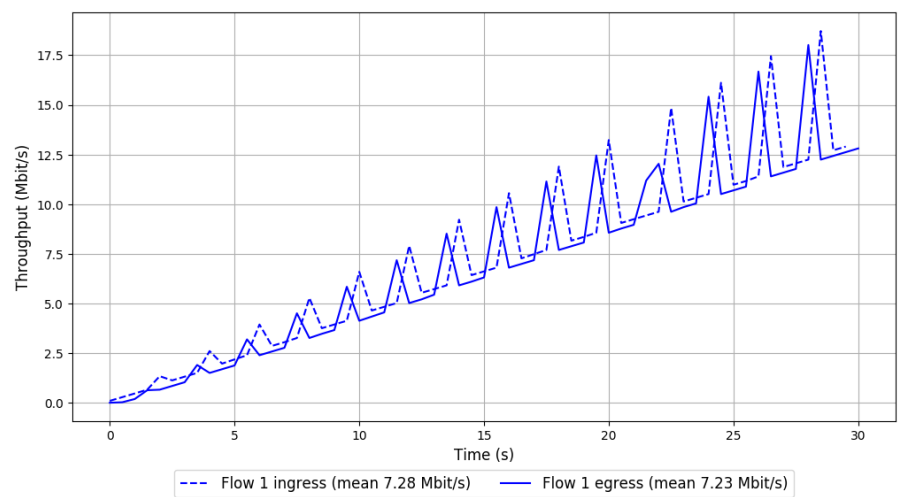
-- Flow 1:

Average throughput: 7.23 Mbit/s

95th percentile per-packet one-way delay: 113.803 ms

Loss rate: 1.49%

Run 9: Report of LEDBAT — Data Link

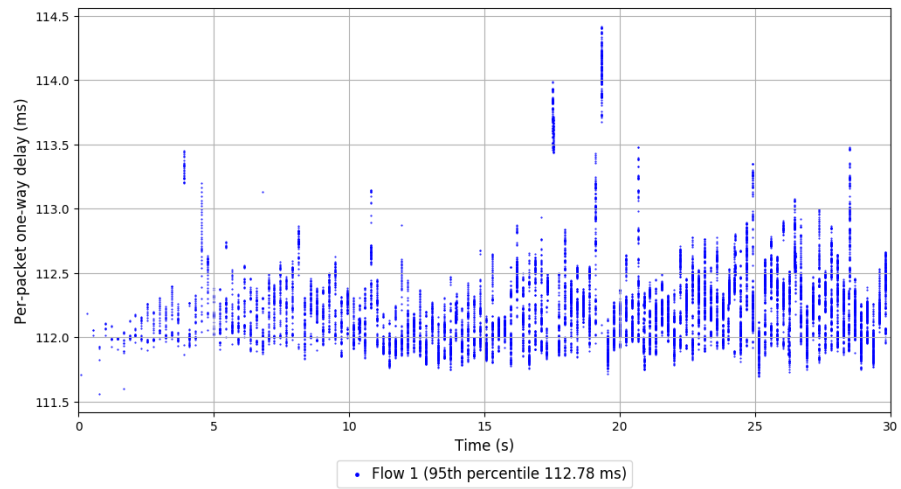
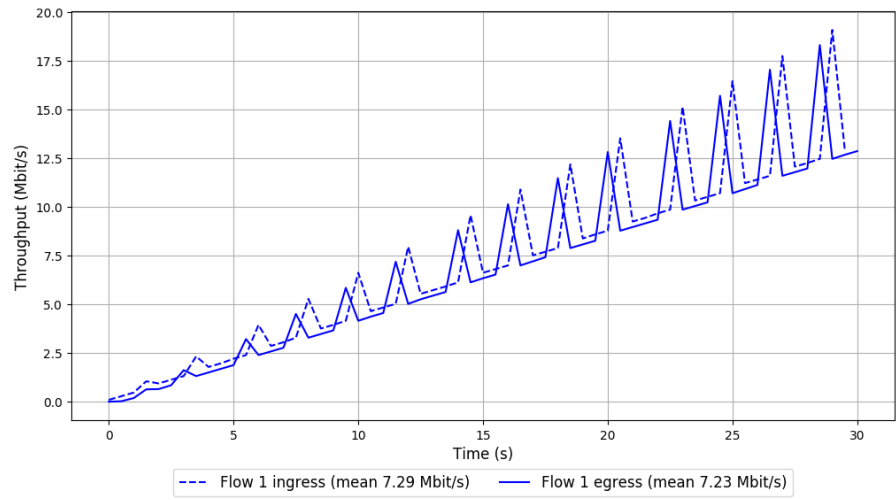


Run 10: Statistics of LEDBAT

Start at: 2018-06-30 02:30:20
End at: 2018-06-30 02:30:50
Local clock offset: 0.01 ms
Remote clock offset: -0.351 ms

Below is generated by plot.py at 2018-06-30 03:39:30
Datalink statistics
-- Total of 1 flow:
Average throughput: 7.23 Mbit/s
95th percentile per-packet one-way delay: 112.776 ms
Loss rate: 1.49%
-- Flow 1:
Average throughput: 7.23 Mbit/s
95th percentile per-packet one-way delay: 112.776 ms
Loss rate: 1.49%

Run 10: Report of LEDBAT — Data Link

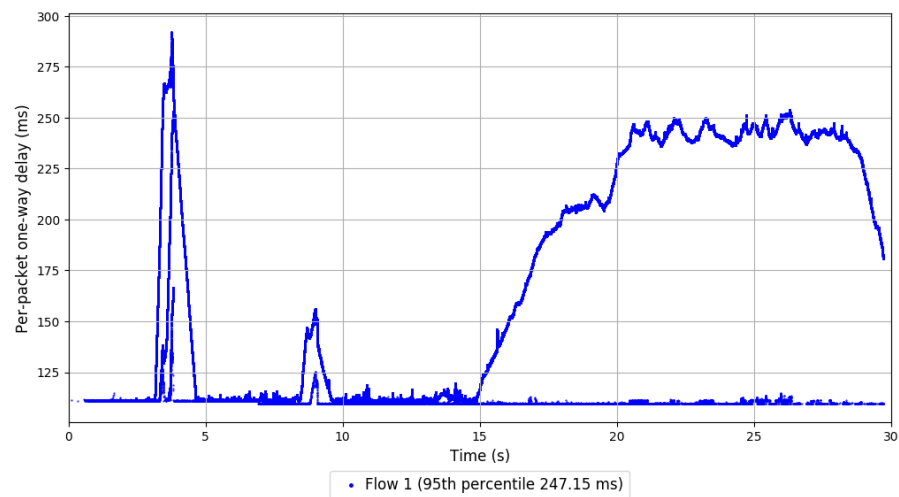
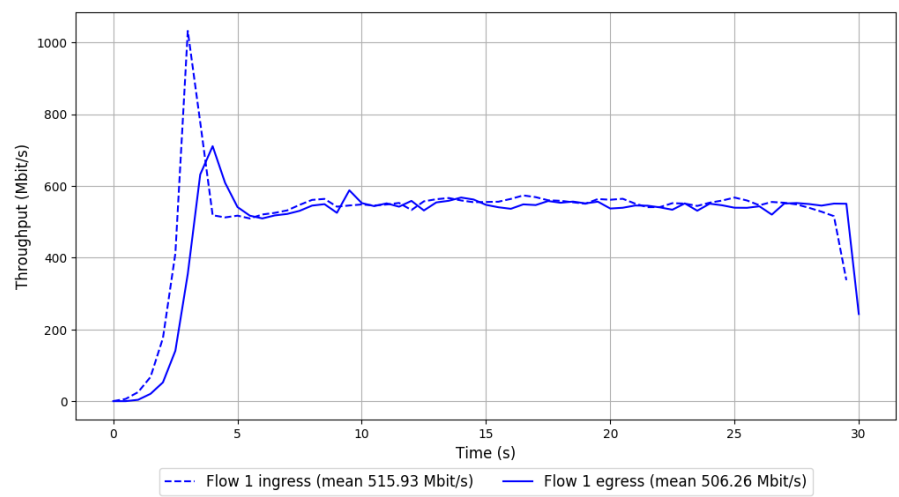


```
Run 1: Statistics of PCC-Allegro

Start at: 2018-06-29 23:03:52
End at: 2018-06-29 23:04:22
Local clock offset: -0.006 ms
Remote clock offset: 0.451 ms

# Below is generated by plot.py at 2018-06-30 03:39:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 506.26 Mbit/s
95th percentile per-packet one-way delay: 247.152 ms
Loss rate: 2.61%
-- Flow 1:
Average throughput: 506.26 Mbit/s
95th percentile per-packet one-way delay: 247.152 ms
Loss rate: 2.61%
```

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-06-29 23:26:02

End at: 2018-06-29 23:26:32

Local clock offset: -0.056 ms

Remote clock offset: 0.101 ms

Below is generated by plot.py at 2018-06-30 03:39:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 514.66 Mbit/s

95th percentile per-packet one-way delay: 238.350 ms

Loss rate: 2.36%

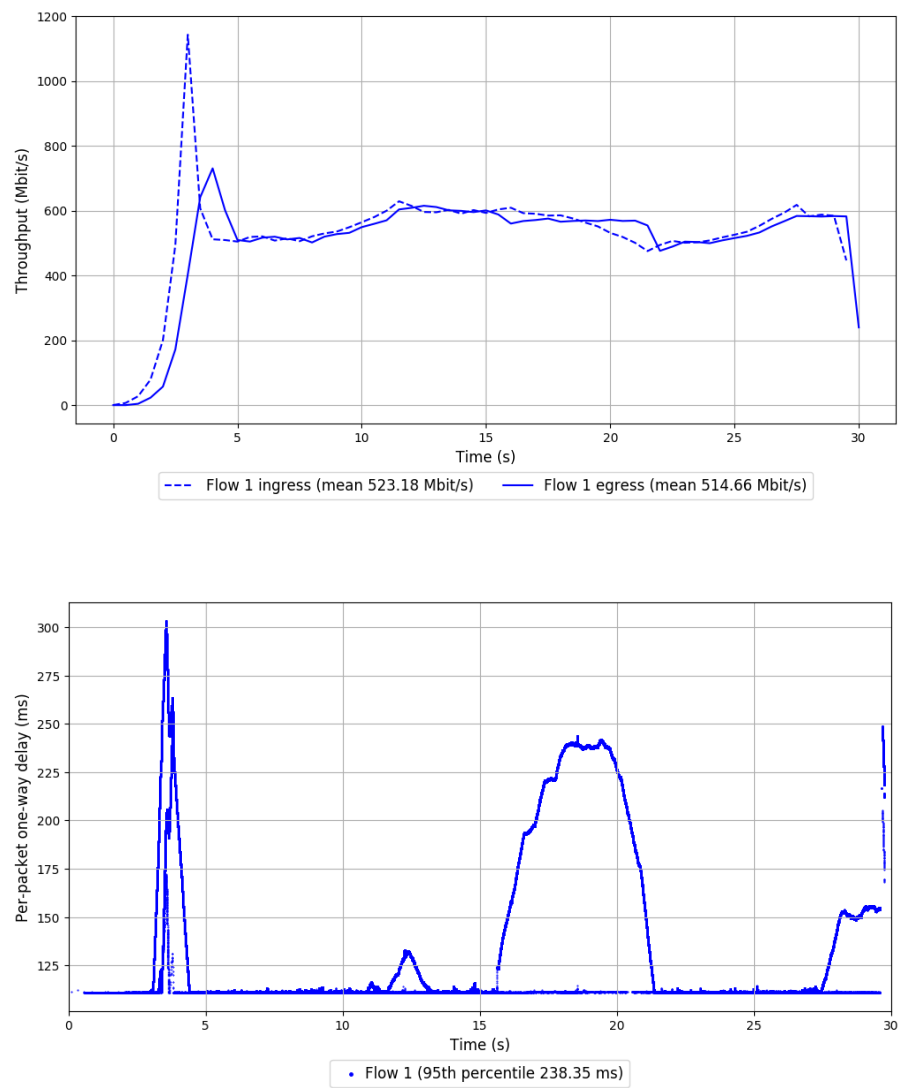
-- Flow 1:

Average throughput: 514.66 Mbit/s

95th percentile per-packet one-way delay: 238.350 ms

Loss rate: 2.36%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-06-29 23:48:35

End at: 2018-06-29 23:49:05

Local clock offset: -1.281 ms

Remote clock offset: 0.431 ms

Below is generated by plot.py at 2018-06-30 03:39:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 525.45 Mbit/s

95th percentile per-packet one-way delay: 239.760 ms

Loss rate: 2.33%

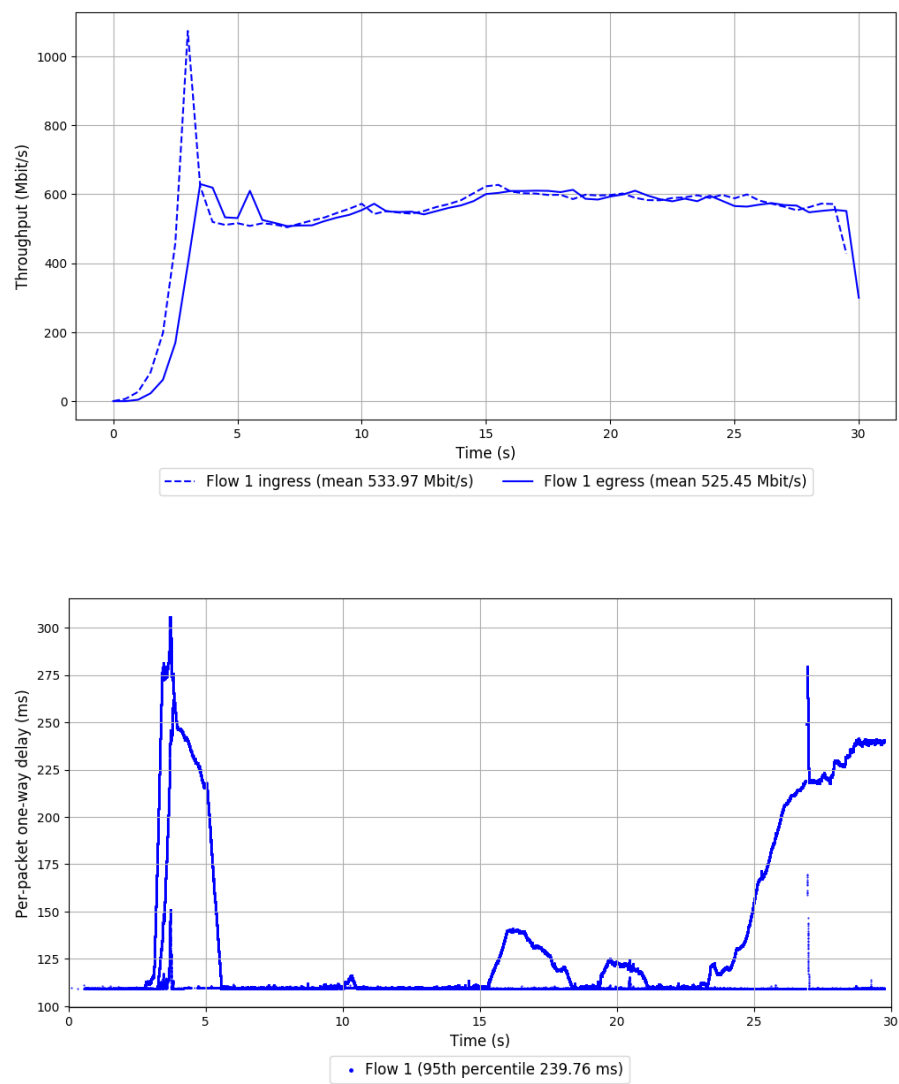
-- Flow 1:

Average throughput: 525.45 Mbit/s

95th percentile per-packet one-way delay: 239.760 ms

Loss rate: 2.33%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-06-30 00:10:37

End at: 2018-06-30 00:11:07

Local clock offset: -0.159 ms

Remote clock offset: 0.086 ms

Below is generated by plot.py at 2018-06-30 03:39:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 503.52 Mbit/s

95th percentile per-packet one-way delay: 248.463 ms

Loss rate: 2.10%

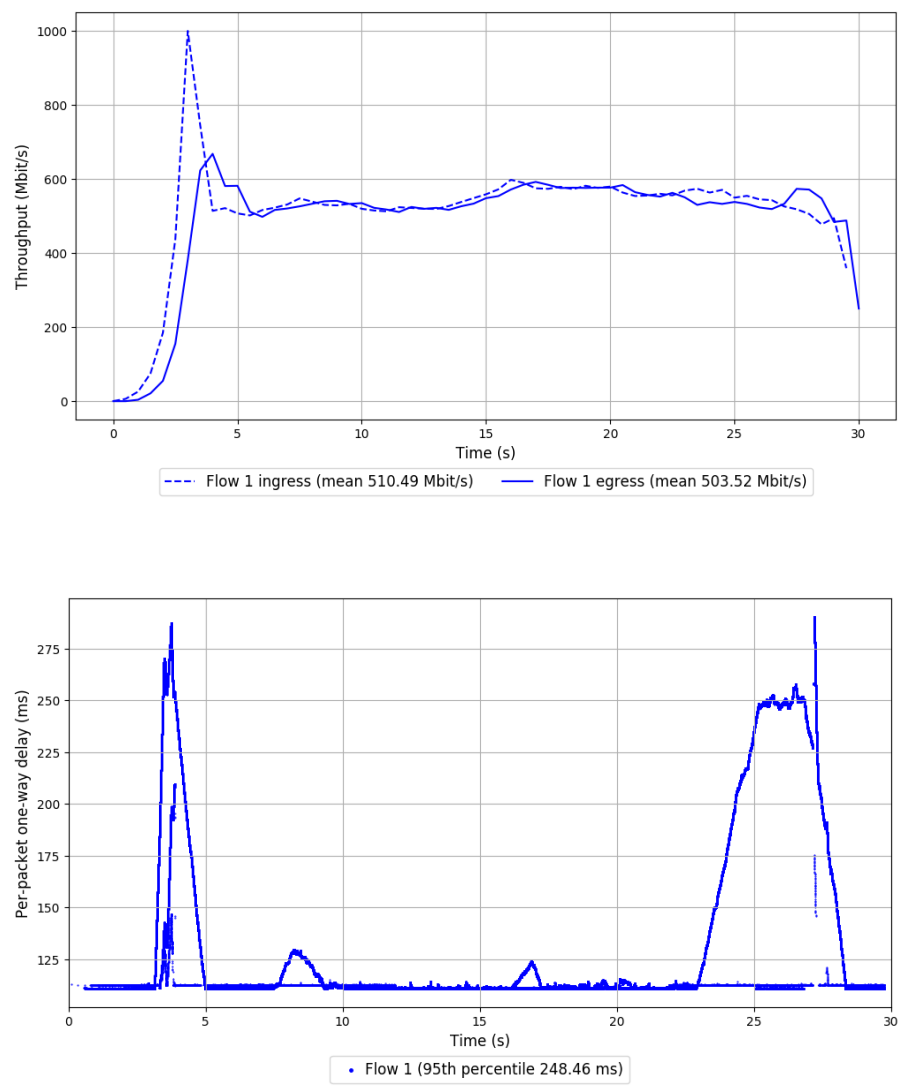
-- Flow 1:

Average throughput: 503.52 Mbit/s

95th percentile per-packet one-way delay: 248.463 ms

Loss rate: 2.10%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-06-30 00:32:32

End at: 2018-06-30 00:33:02

Local clock offset: -0.293 ms

Remote clock offset: 0.095 ms

Below is generated by plot.py at 2018-06-30 03:39:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 504.30 Mbit/s

95th percentile per-packet one-way delay: 154.153 ms

Loss rate: 1.81%

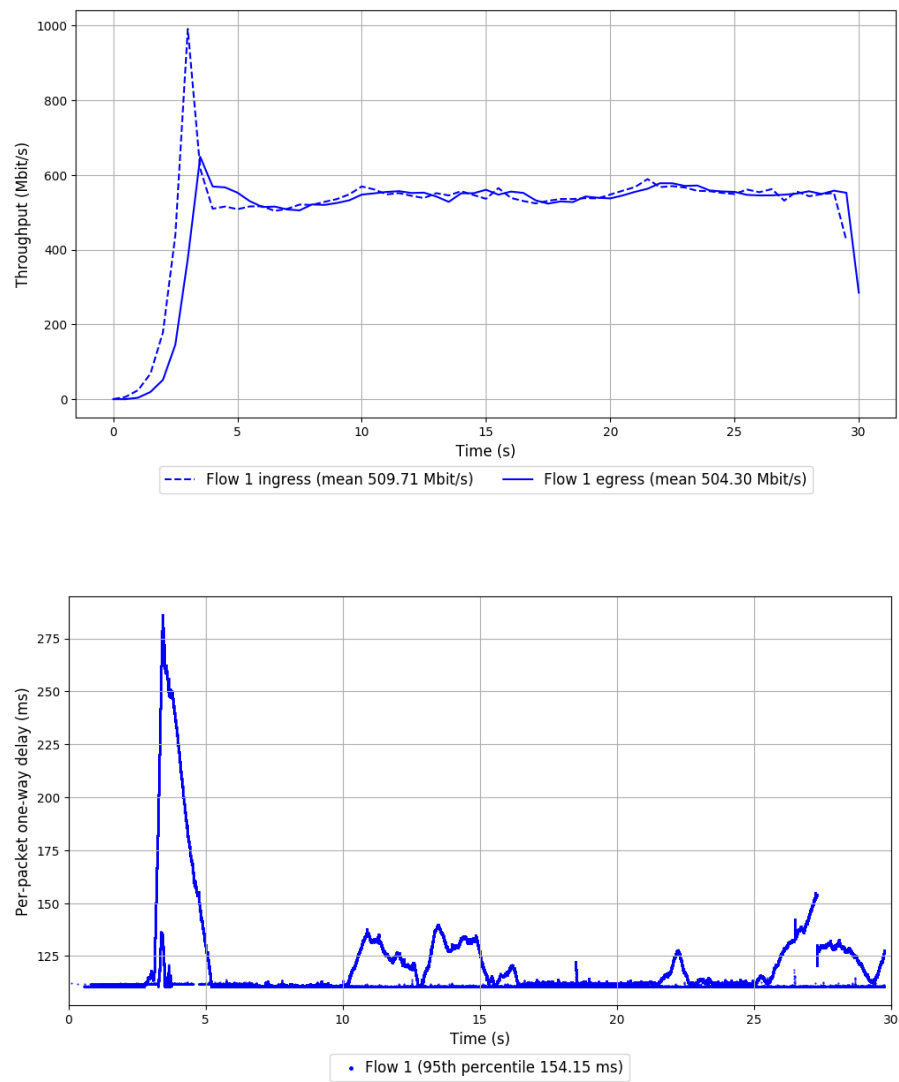
-- Flow 1:

Average throughput: 504.30 Mbit/s

95th percentile per-packet one-way delay: 154.153 ms

Loss rate: 1.81%

Run 5: Report of PCC-Allegro — Data Link



Run 6: Statistics of PCC-Allegro

Start at: 2018-06-30 00:55:00

End at: 2018-06-30 00:55:30

Local clock offset: 1.381 ms

Remote clock offset: 0.101 ms

Below is generated by plot.py at 2018-06-30 03:39:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 521.14 Mbit/s

95th percentile per-packet one-way delay: 181.048 ms

Loss rate: 1.85%

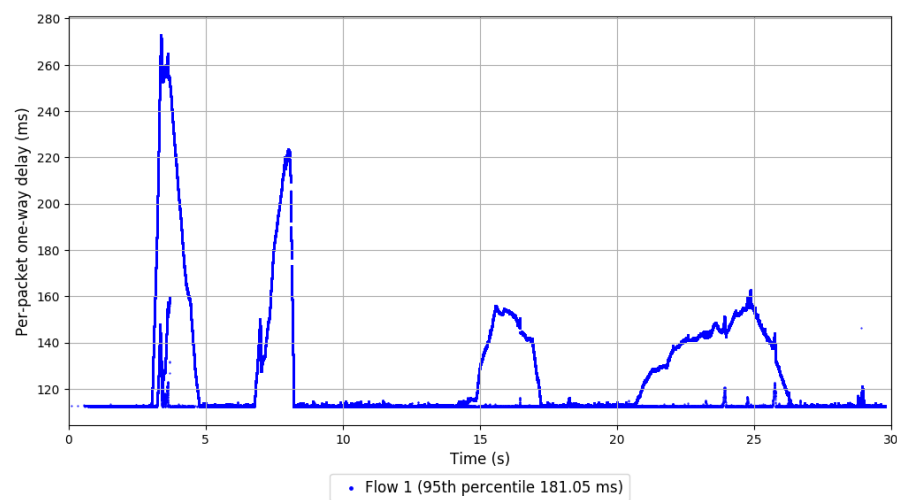
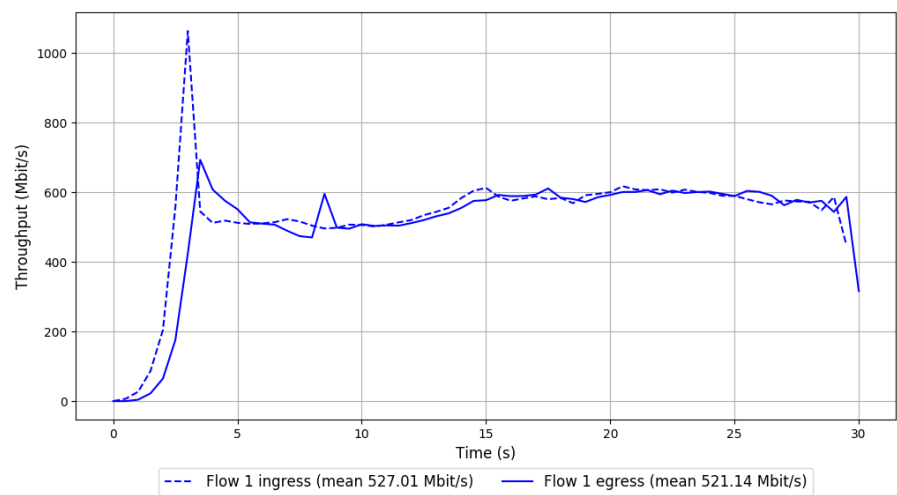
-- Flow 1:

Average throughput: 521.14 Mbit/s

95th percentile per-packet one-way delay: 181.048 ms

Loss rate: 1.85%

Run 6: Report of PCC-Allegro — Data Link



Run 7: Statistics of PCC-Allegro

Start at: 2018-06-30 01:17:12

End at: 2018-06-30 01:17:42

Local clock offset: -1.266 ms

Remote clock offset: 0.018 ms

Below is generated by plot.py at 2018-06-30 03:44:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 523.01 Mbit/s

95th percentile per-packet one-way delay: 239.064 ms

Loss rate: 2.71%

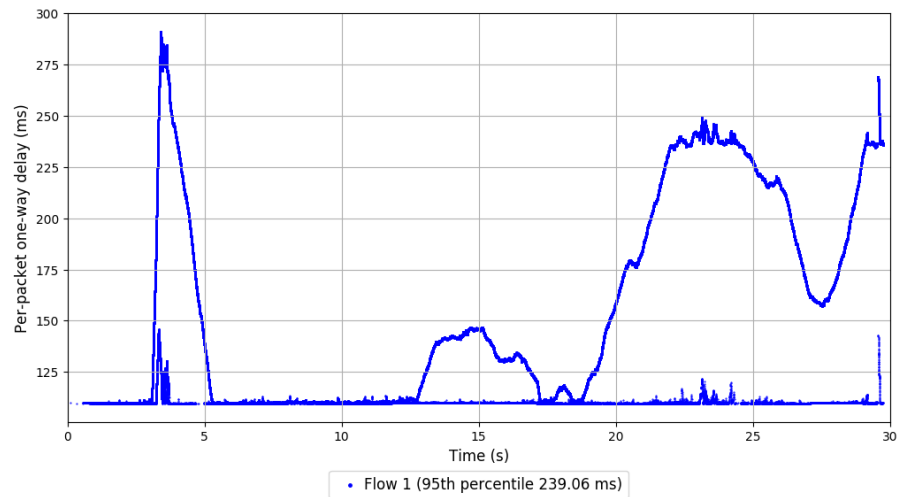
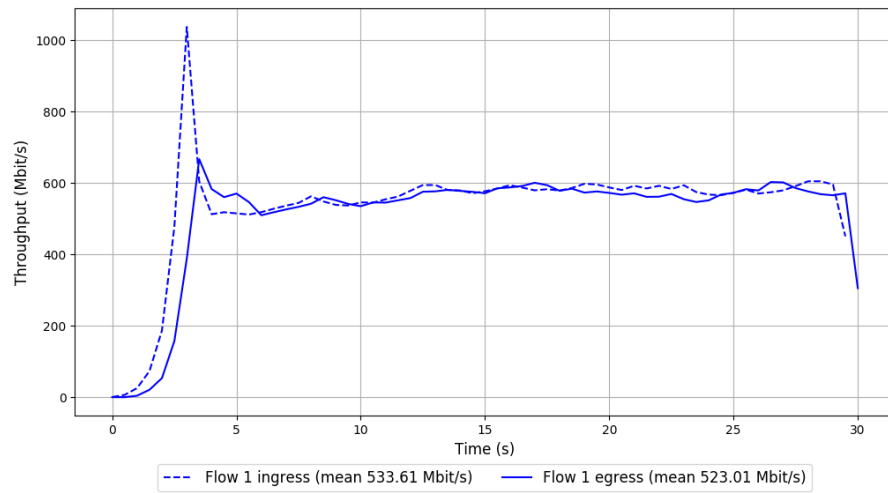
-- Flow 1:

Average throughput: 523.01 Mbit/s

95th percentile per-packet one-way delay: 239.064 ms

Loss rate: 2.71%

Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-06-30 01:39:46

End at: 2018-06-30 01:40:16

Local clock offset: 0.174 ms

Remote clock offset: 0.03 ms

Below is generated by plot.py at 2018-06-30 03:45:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 541.11 Mbit/s

95th percentile per-packet one-way delay: 238.772 ms

Loss rate: 3.03%

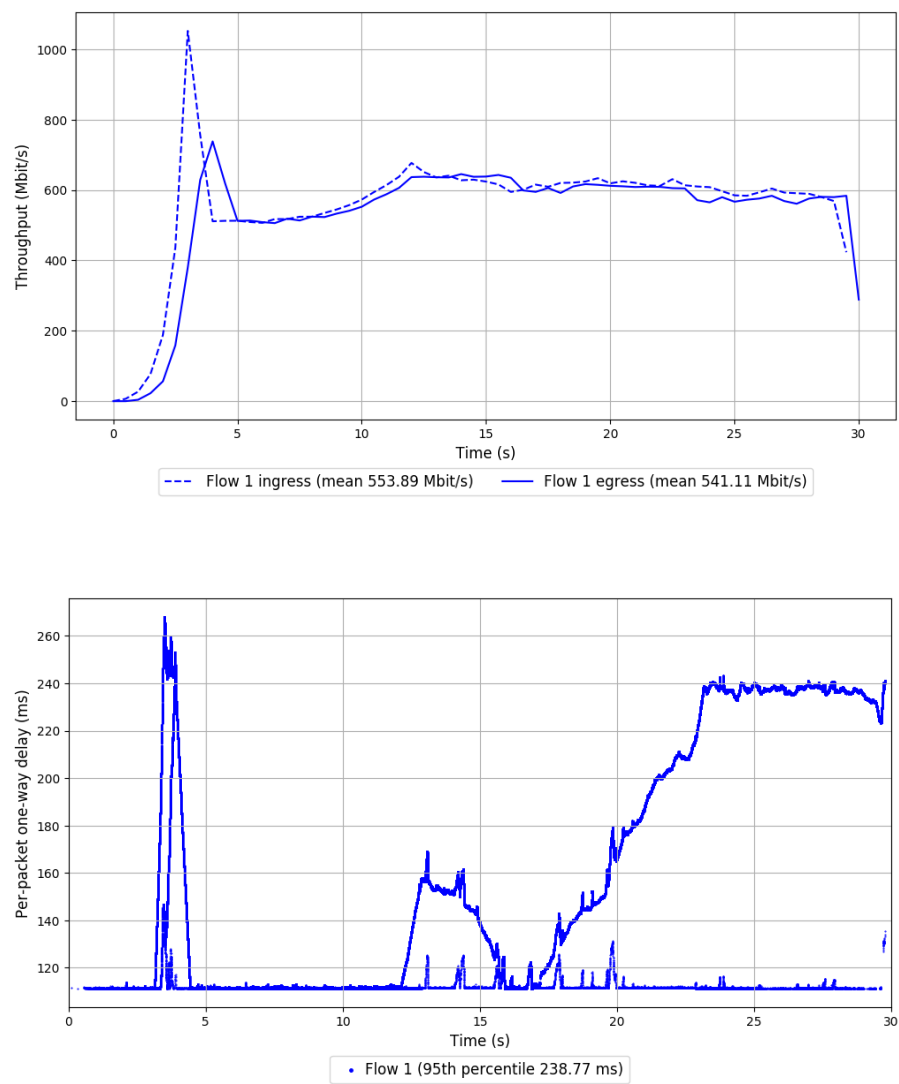
-- Flow 1:

Average throughput: 541.11 Mbit/s

95th percentile per-packet one-way delay: 238.772 ms

Loss rate: 3.03%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-06-30 02:02:25

End at: 2018-06-30 02:02:55

Local clock offset: -0.068 ms

Remote clock offset: 0.05 ms

Below is generated by plot.py at 2018-06-30 03:45:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 528.41 Mbit/s

95th percentile per-packet one-way delay: 181.368 ms

Loss rate: 2.12%

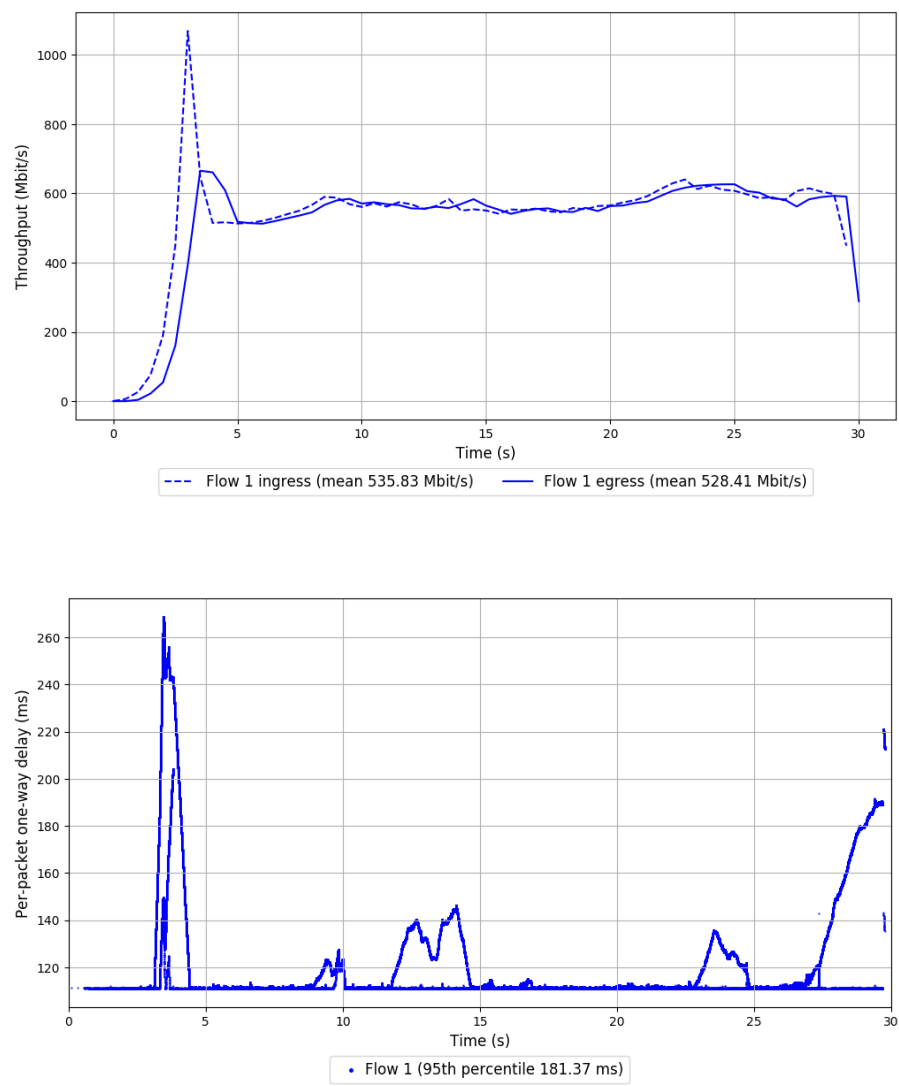
-- Flow 1:

Average throughput: 528.41 Mbit/s

95th percentile per-packet one-way delay: 181.368 ms

Loss rate: 2.12%

Run 9: Report of PCC-Allegro — Data Link



Run 10: Statistics of PCC-Allegro

Start at: 2018-06-30 02:24:44

End at: 2018-06-30 02:25:14

Local clock offset: -0.167 ms

Remote clock offset: 0.429 ms

Below is generated by plot.py at 2018-06-30 03:45:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 515.28 Mbit/s

95th percentile per-packet one-way delay: 198.500 ms

Loss rate: 1.79%

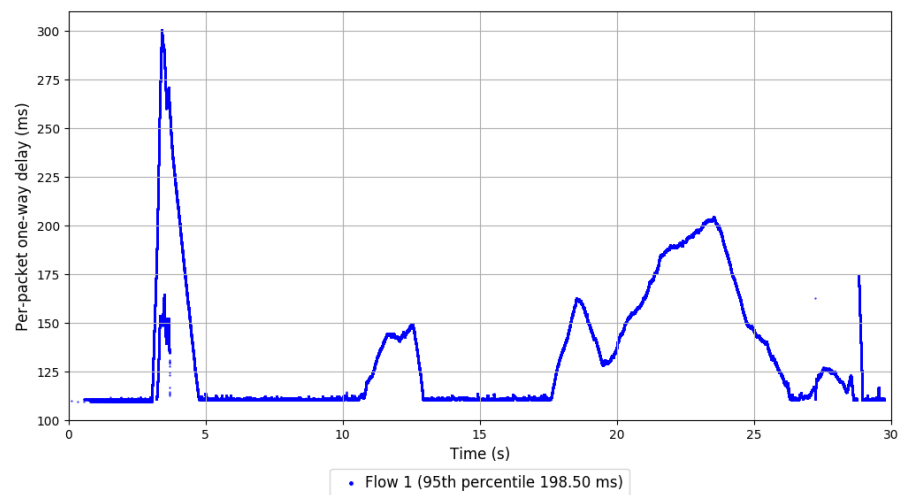
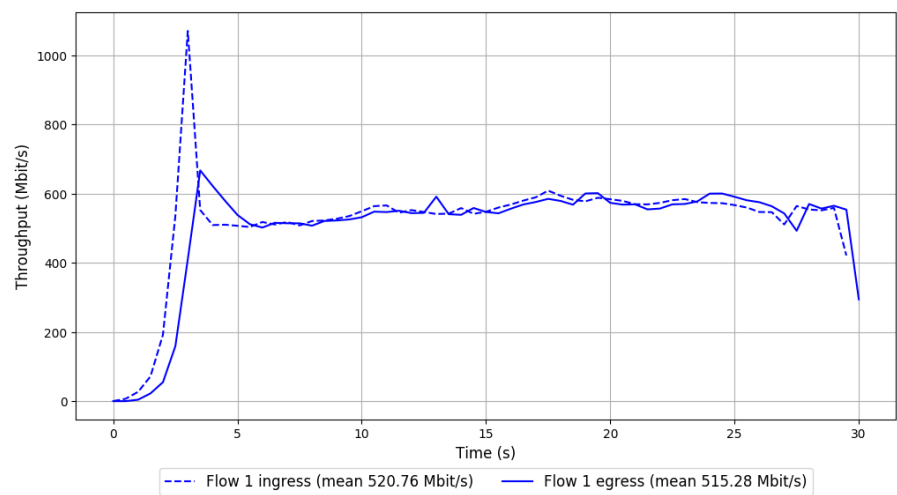
-- Flow 1:

Average throughput: 515.28 Mbit/s

95th percentile per-packet one-way delay: 198.500 ms

Loss rate: 1.79%

Run 10: Report of PCC-Allegro — Data Link

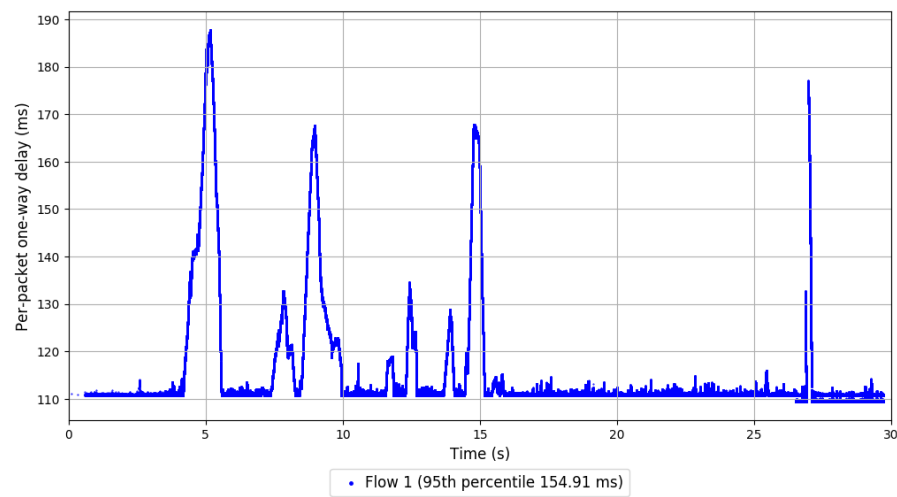
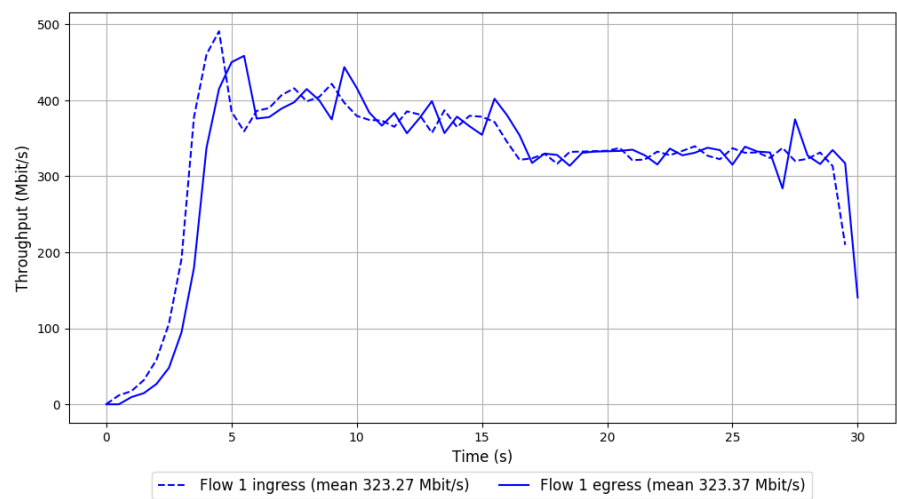


```
Run 1: Statistics of PCC-Expr

Start at: 2018-06-29 23:07:52
End at: 2018-06-29 23:08:23
Local clock offset: -0.233 ms
Remote clock offset: 0.411 ms

# Below is generated by plot.py at 2018-06-30 03:47:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 323.37 Mbit/s
95th percentile per-packet one-way delay: 154.913 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 323.37 Mbit/s
95th percentile per-packet one-way delay: 154.913 ms
Loss rate: 0.72%
```


Run 1: Report of PCC-Expr — Data Link

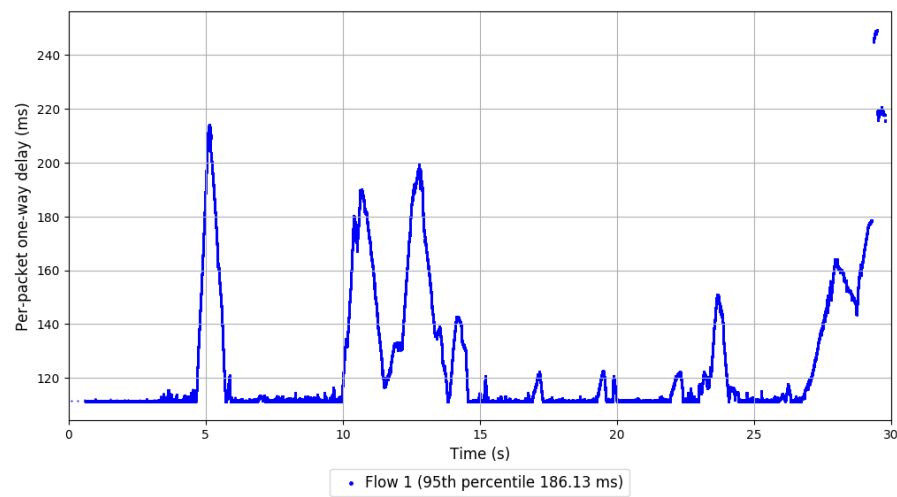
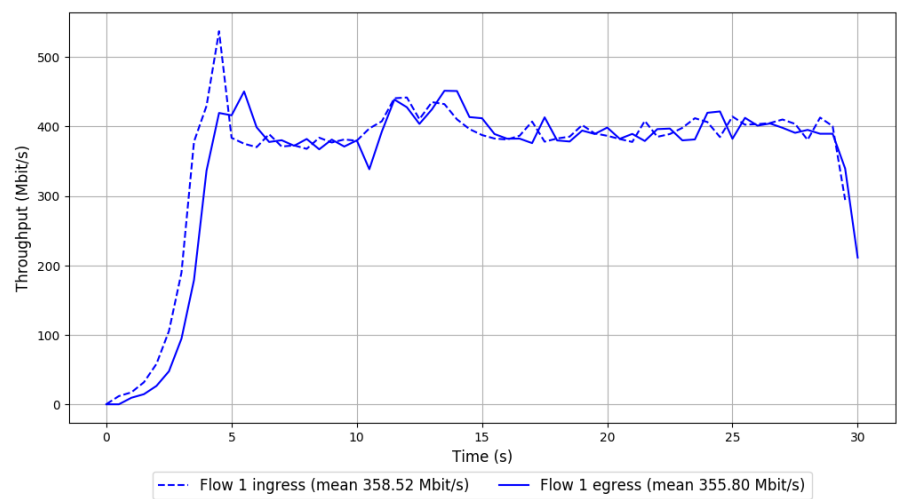


Run 2: Statistics of PCC-Expr

Start at: 2018-06-29 23:30:05
End at: 2018-06-29 23:30:35
Local clock offset: -0.143 ms
Remote clock offset: -0.292 ms

Below is generated by plot.py at 2018-06-30 03:48:21
Datalink statistics
-- Total of 1 flow:
Average throughput: 355.80 Mbit/s
95th percentile per-packet one-way delay: 186.128 ms
Loss rate: 1.49%
-- Flow 1:
Average throughput: 355.80 Mbit/s
95th percentile per-packet one-way delay: 186.128 ms
Loss rate: 1.49%

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2018-06-29 23:52:39

End at: 2018-06-29 23:53:09

Local clock offset: 0.345 ms

Remote clock offset: 0.083 ms

Below is generated by plot.py at 2018-06-30 03:48:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 240.63 Mbit/s

95th percentile per-packet one-way delay: 204.489 ms

Loss rate: 1.21%

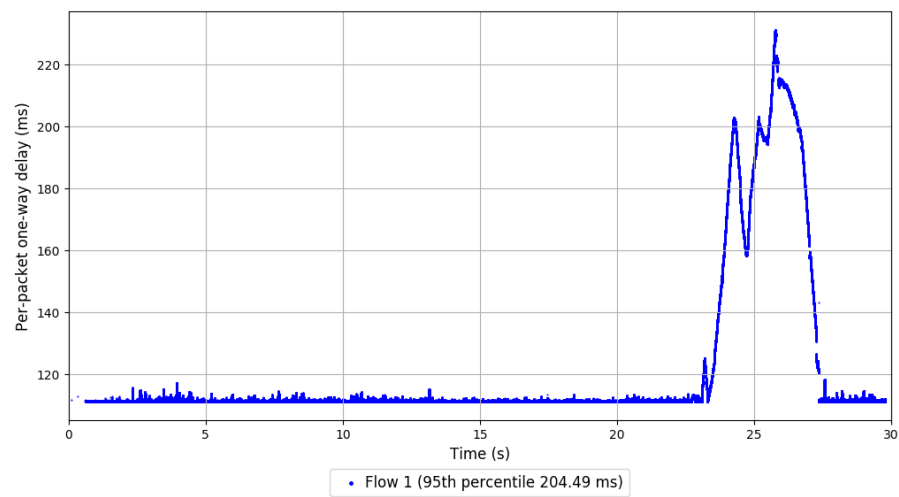
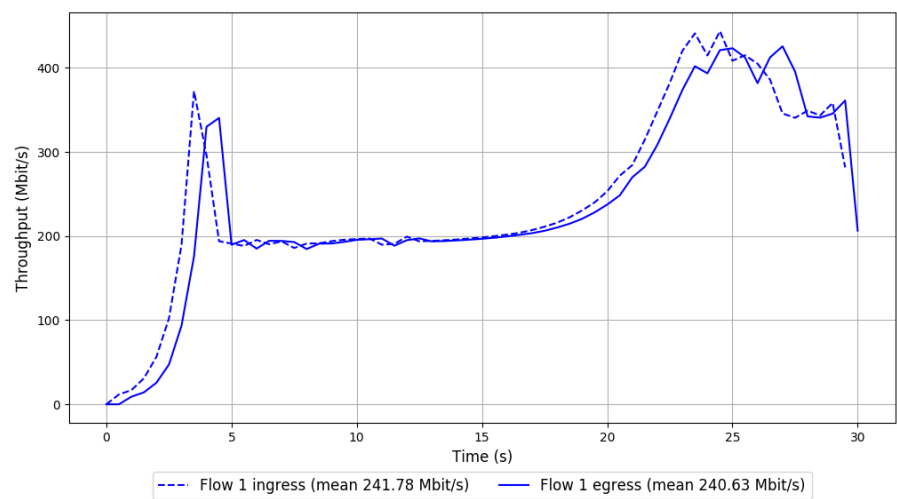
-- Flow 1:

Average throughput: 240.63 Mbit/s

95th percentile per-packet one-way delay: 204.489 ms

Loss rate: 1.21%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2018-06-30 00:14:38

End at: 2018-06-30 00:15:08

Local clock offset: -0.053 ms

Remote clock offset: 0.449 ms

Below is generated by plot.py at 2018-06-30 03:49:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 334.68 Mbit/s

95th percentile per-packet one-way delay: 162.169 ms

Loss rate: 1.07%

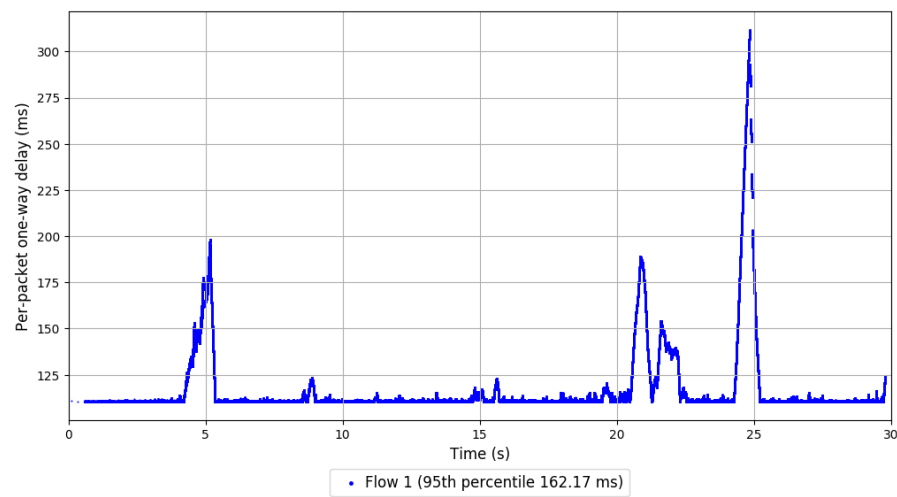
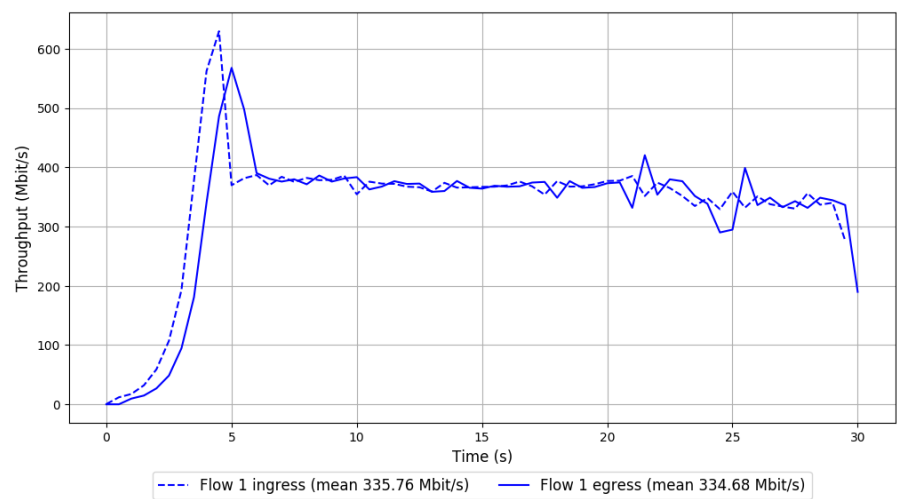
-- Flow 1:

Average throughput: 334.68 Mbit/s

95th percentile per-packet one-way delay: 162.169 ms

Loss rate: 1.07%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2018-06-30 00:36:27

End at: 2018-06-30 00:36:57

Local clock offset: 1.345 ms

Remote clock offset: 0.113 ms

Below is generated by plot.py at 2018-06-30 03:55:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 348.20 Mbit/s

95th percentile per-packet one-way delay: 193.000 ms

Loss rate: 1.02%

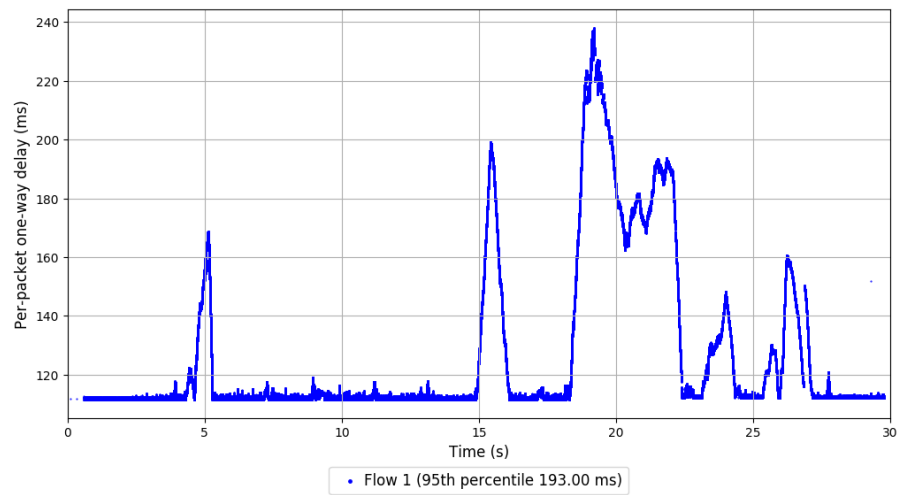
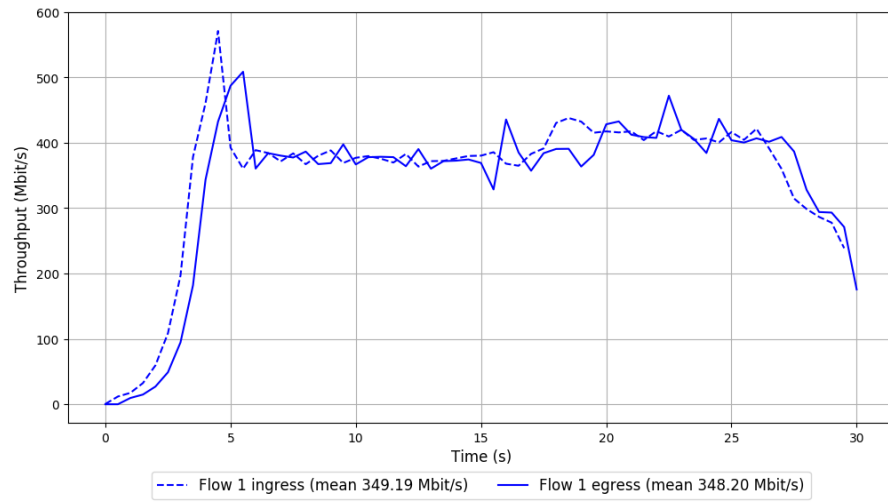
-- Flow 1:

Average throughput: 348.20 Mbit/s

95th percentile per-packet one-way delay: 193.000 ms

Loss rate: 1.02%

Run 5: Report of PCC-Expr — Data Link



Run 6: Statistics of PCC-Expr

Start at: 2018-06-30 00:59:01

End at: 2018-06-30 00:59:32

Local clock offset: 0.171 ms

Remote clock offset: 0.102 ms

Below is generated by plot.py at 2018-06-30 03:55:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 247.46 Mbit/s

95th percentile per-packet one-way delay: 162.780 ms

Loss rate: 1.74%

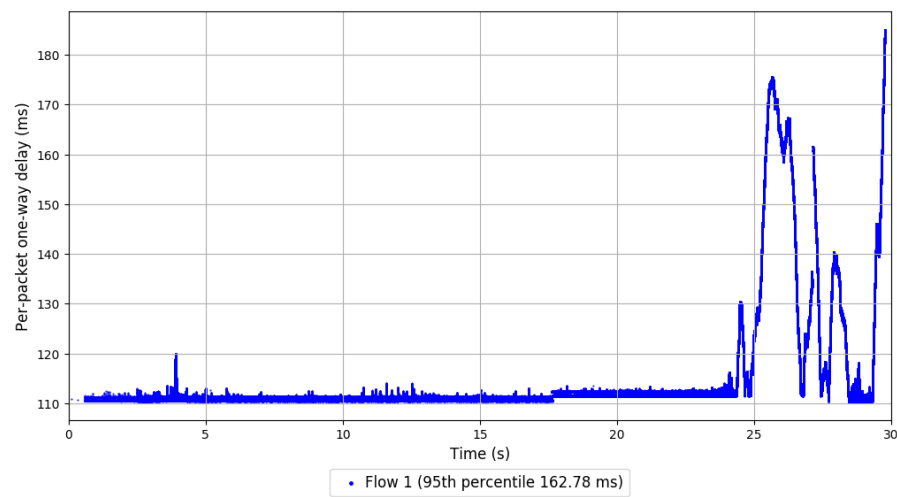
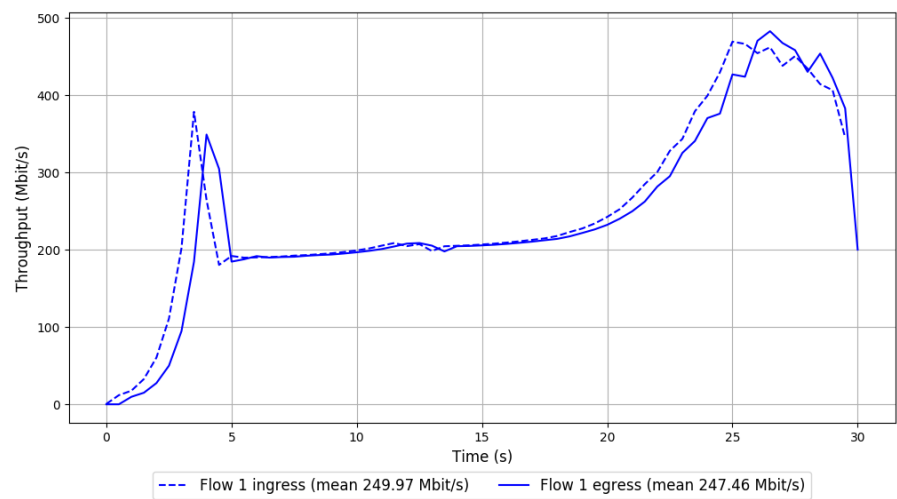
-- Flow 1:

Average throughput: 247.46 Mbit/s

95th percentile per-packet one-way delay: 162.780 ms

Loss rate: 1.74%

Run 6: Report of PCC-Expr — Data Link



Run 7: Statistics of PCC-Expr

Start at: 2018-06-30 01:21:11

End at: 2018-06-30 01:21:41

Local clock offset: -0.016 ms

Remote clock offset: 0.385 ms

Below is generated by plot.py at 2018-06-30 03:56:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 356.03 Mbit/s

95th percentile per-packet one-way delay: 199.169 ms

Loss rate: 1.22%

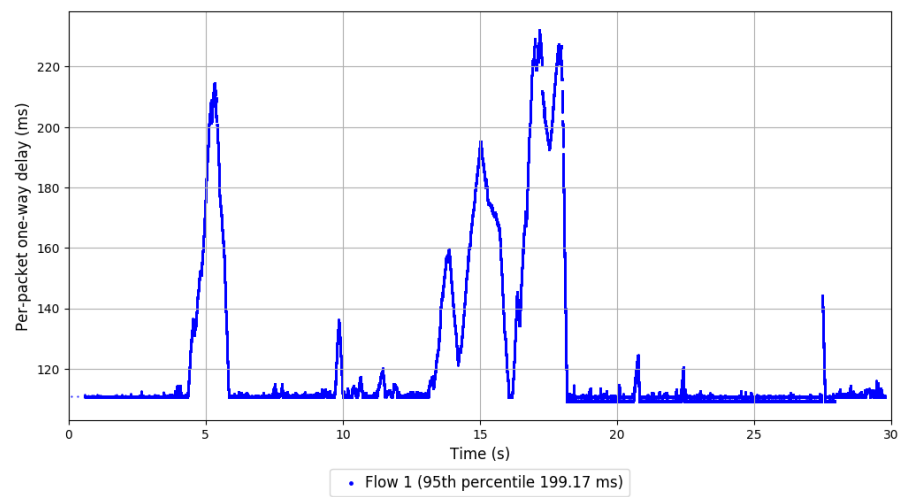
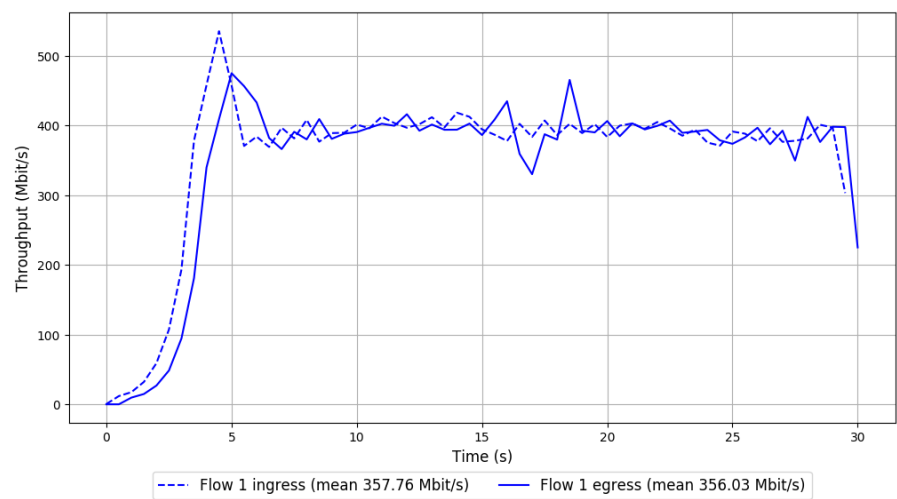
-- Flow 1:

Average throughput: 356.03 Mbit/s

95th percentile per-packet one-way delay: 199.169 ms

Loss rate: 1.22%

Run 7: Report of PCC-Expr — Data Link



Run 8: Statistics of PCC-Expr

Start at: 2018-06-30 01:43:52

End at: 2018-06-30 01:44:22

Local clock offset: 0.084 ms

Remote clock offset: -0.025 ms

Below is generated by plot.py at 2018-06-30 03:56:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 347.86 Mbit/s

95th percentile per-packet one-way delay: 221.442 ms

Loss rate: 4.11%

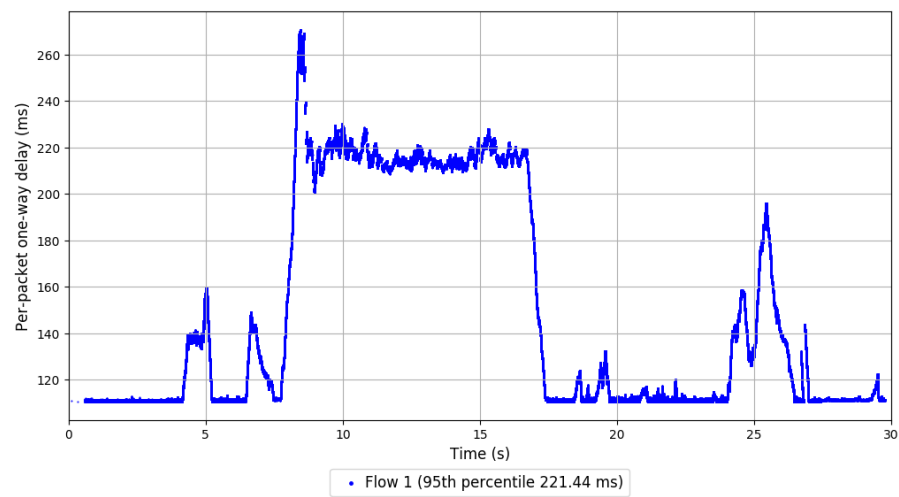
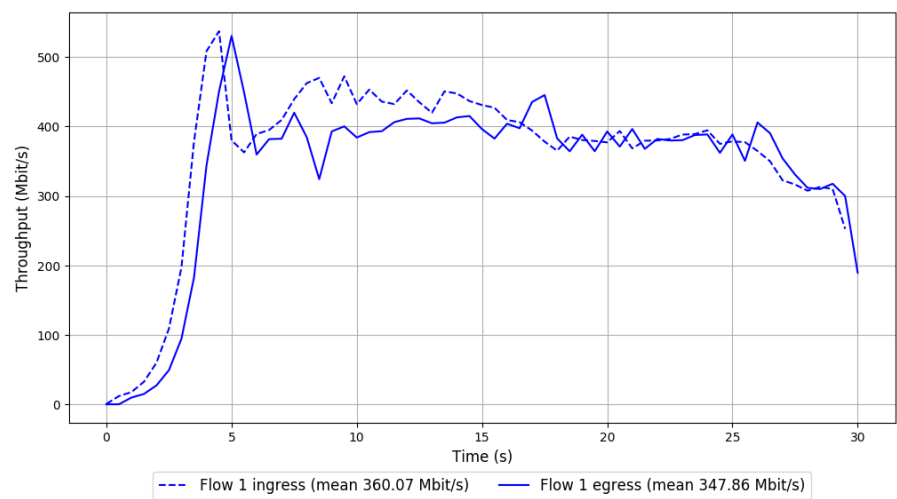
-- Flow 1:

Average throughput: 347.86 Mbit/s

95th percentile per-packet one-way delay: 221.442 ms

Loss rate: 4.11%

Run 8: Report of PCC-Expr — Data Link



Run 9: Statistics of PCC-Expr

Start at: 2018-06-30 02:06:31

End at: 2018-06-30 02:07:01

Local clock offset: -0.106 ms

Remote clock offset: 0.019 ms

Below is generated by plot.py at 2018-06-30 03:56:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 180.93 Mbit/s

95th percentile per-packet one-way delay: 113.092 ms

Loss rate: 0.82%

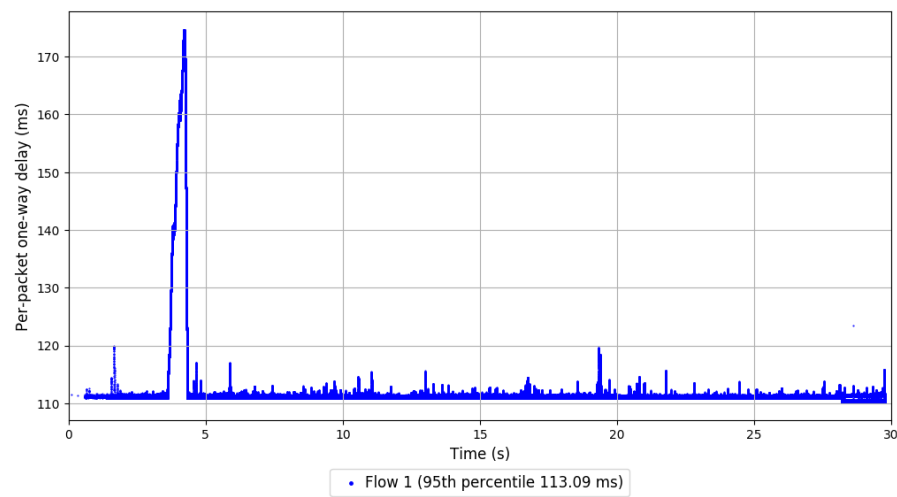
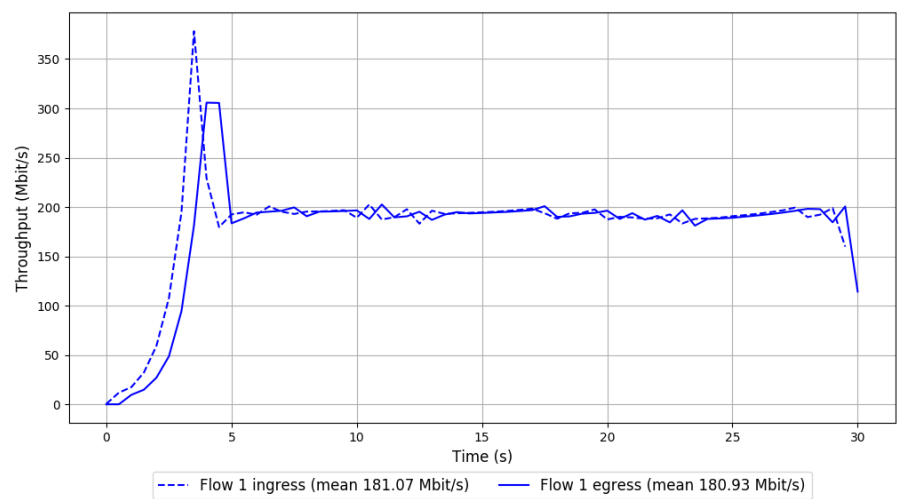
-- Flow 1:

Average throughput: 180.93 Mbit/s

95th percentile per-packet one-way delay: 113.092 ms

Loss rate: 0.82%

Run 9: Report of PCC-Expr — Data Link

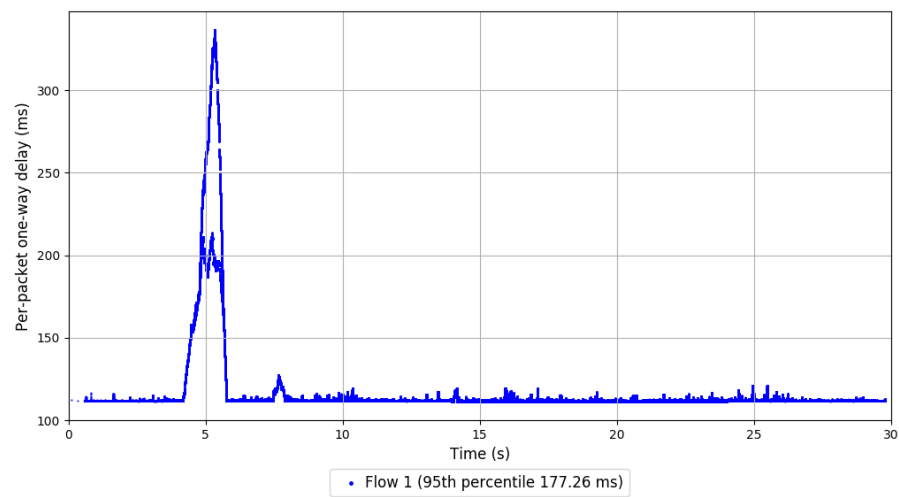
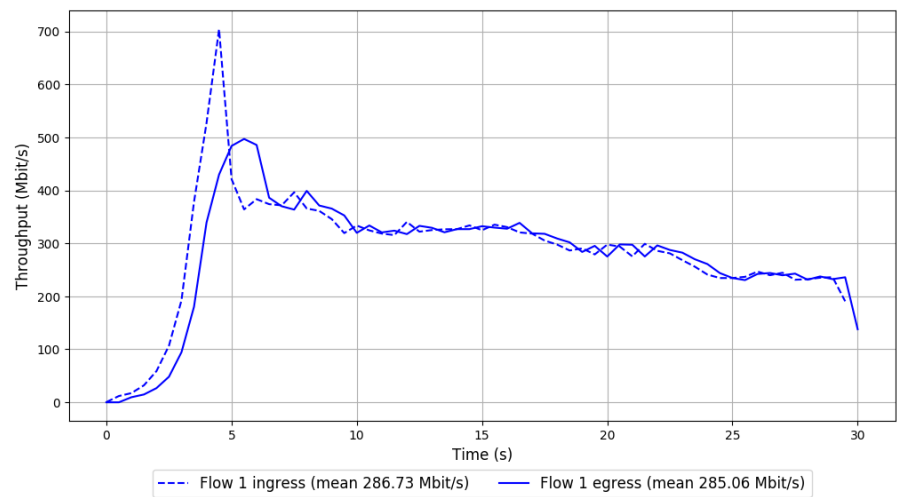


Run 10: Statistics of PCC-Expr

Start at: 2018-06-30 02:28:45
End at: 2018-06-30 02:29:15
Local clock offset: 0.16 ms
Remote clock offset: -0.021 ms

Below is generated by plot.py at 2018-06-30 03:56:34
Datalink statistics
-- Total of 1 flow:
Average throughput: 285.06 Mbit/s
95th percentile per-packet one-way delay: 177.265 ms
Loss rate: 1.32%
-- Flow 1:
Average throughput: 285.06 Mbit/s
95th percentile per-packet one-way delay: 177.265 ms
Loss rate: 1.32%

Run 10: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

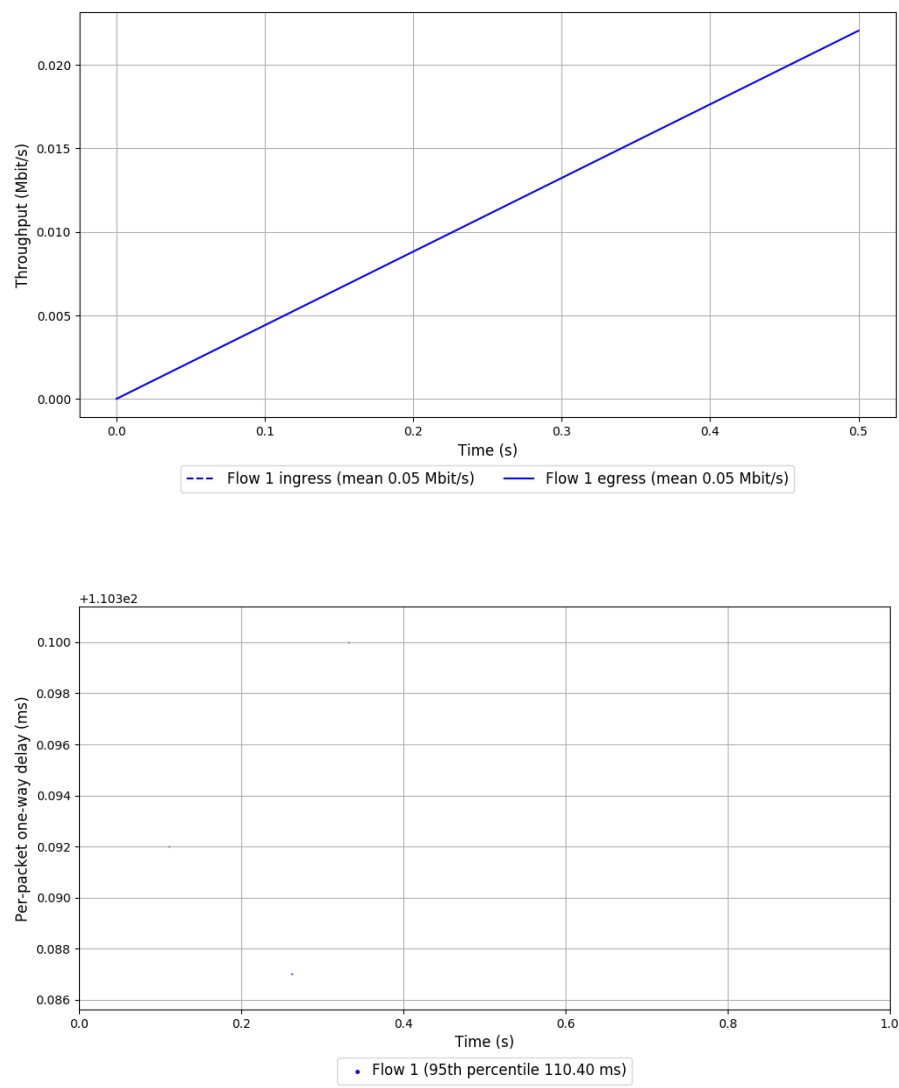
Start at: 2018-06-29 23:10:39

End at: 2018-06-29 23:11:09

Local clock offset: -1.173 ms

Remote clock offset: 0.025 ms

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

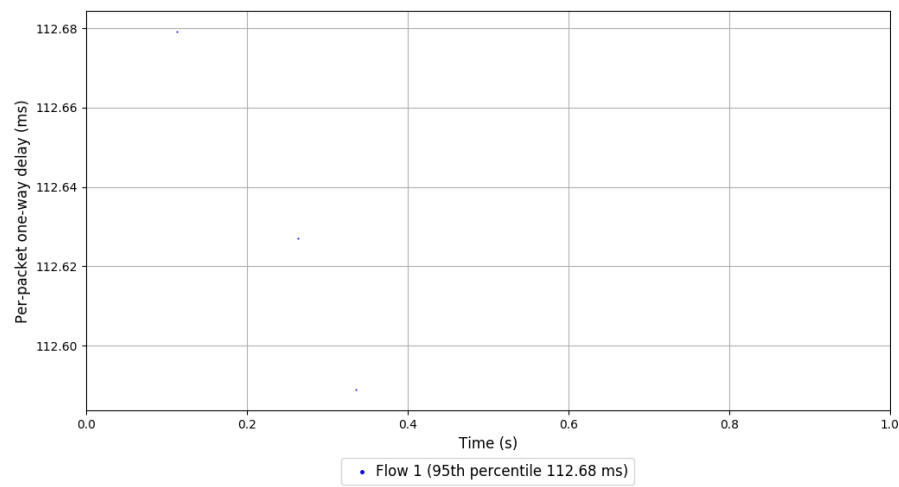
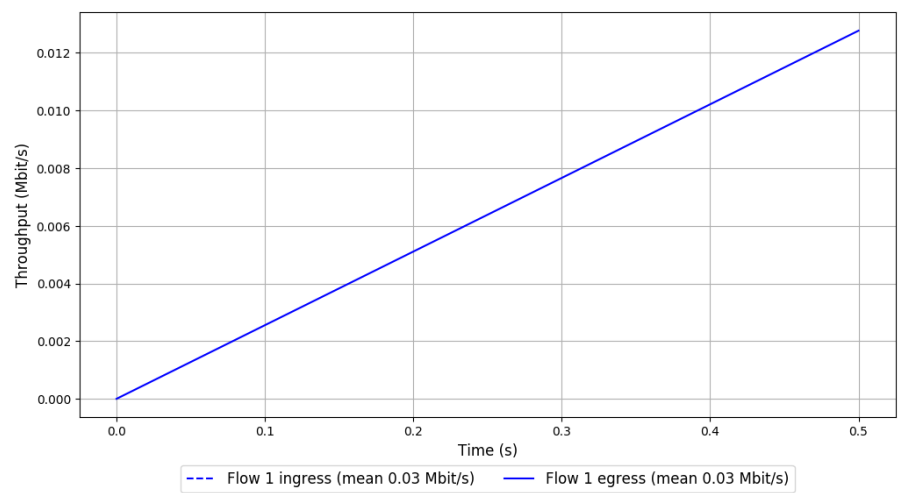
Start at: 2018-06-29 23:32:55

End at: 2018-06-29 23:33:25

Local clock offset: 1.296 ms

Remote clock offset: 0.076 ms

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-06-29 23:55:17

End at: 2018-06-29 23:55:47

Local clock offset: 1.417 ms

Remote clock offset: 0.063 ms

Below is generated by plot.py at 2018-06-30 03:56:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 65.65 Mbit/s

95th percentile per-packet one-way delay: 112.670 ms

Loss rate: 1.07%

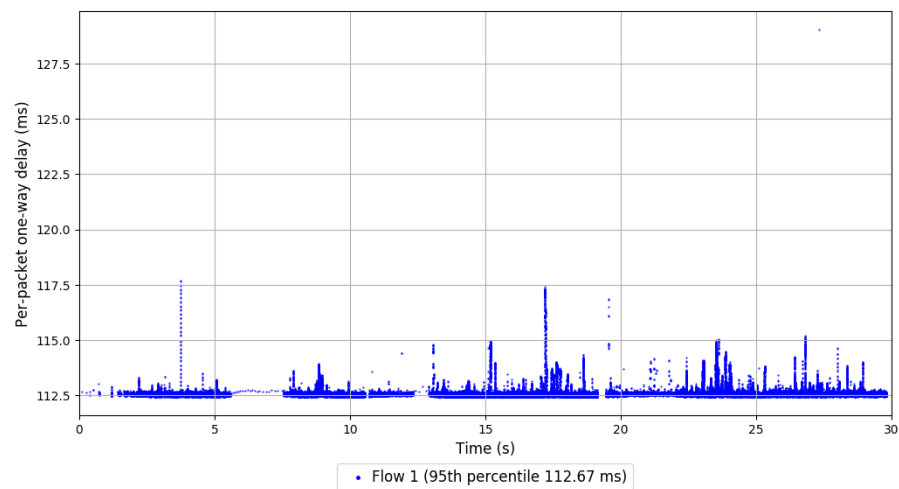
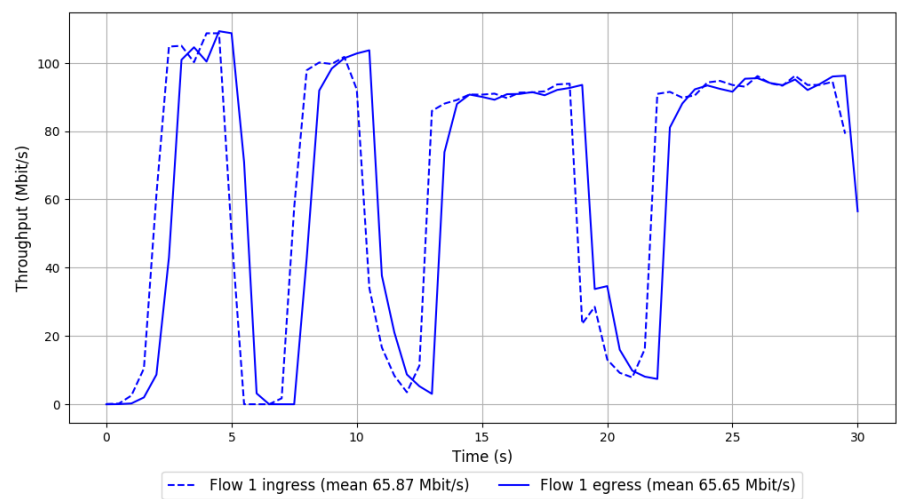
-- Flow 1:

Average throughput: 65.65 Mbit/s

95th percentile per-packet one-way delay: 112.670 ms

Loss rate: 1.07%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-06-30 00:17:26

End at: 2018-06-30 00:17:56

Local clock offset: -0.04 ms

Remote clock offset: 0.098 ms

Below is generated by plot.py at 2018-06-30 03:56:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.41 Mbit/s

95th percentile per-packet one-way delay: 112.796 ms

Loss rate: 1.10%

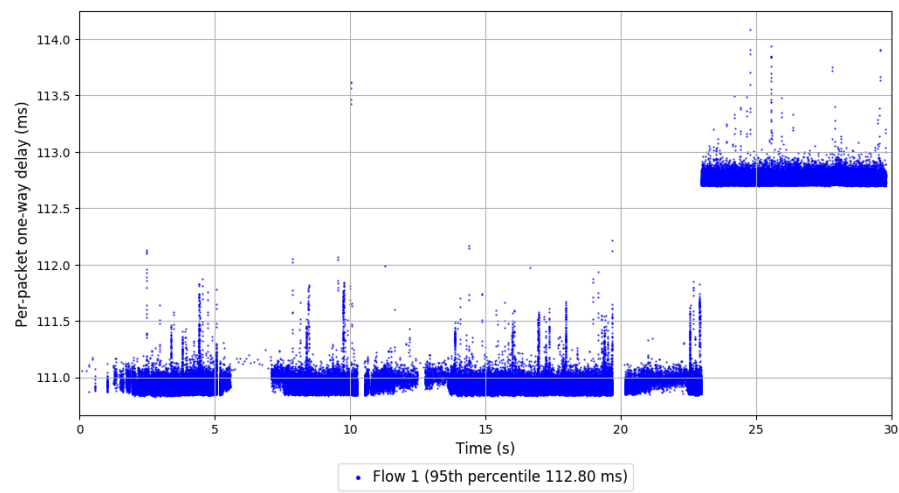
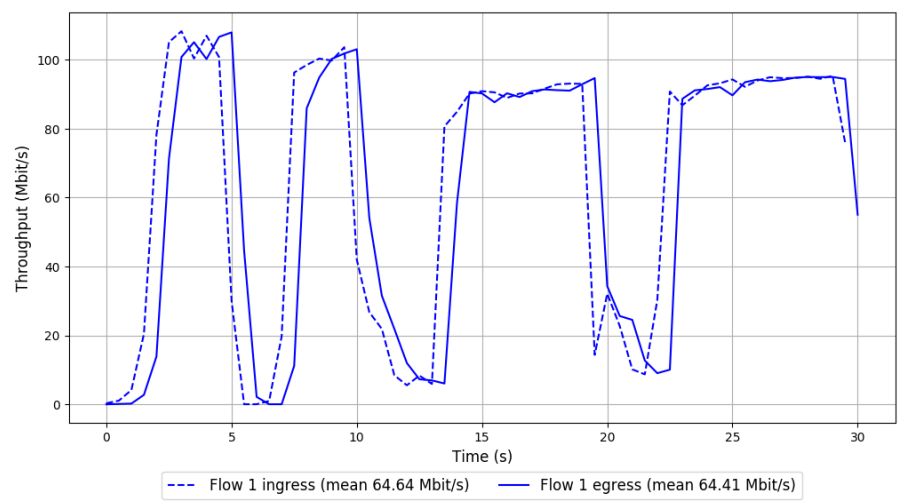
-- Flow 1:

Average throughput: 64.41 Mbit/s

95th percentile per-packet one-way delay: 112.796 ms

Loss rate: 1.10%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-06-30 00:39:16

End at: 2018-06-30 00:39:46

Local clock offset: -0.029 ms

Remote clock offset: 0.129 ms

Below is generated by plot.py at 2018-06-30 03:56:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.83 Mbit/s

95th percentile per-packet one-way delay: 111.232 ms

Loss rate: 0.98%

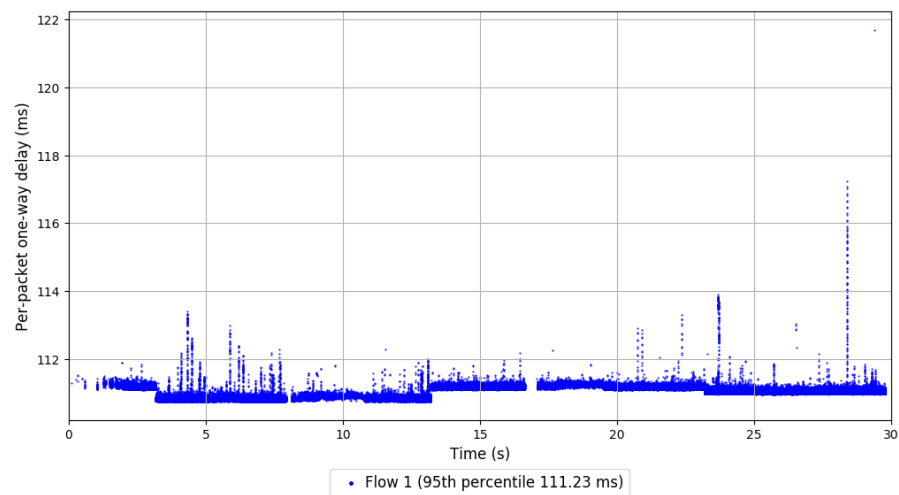
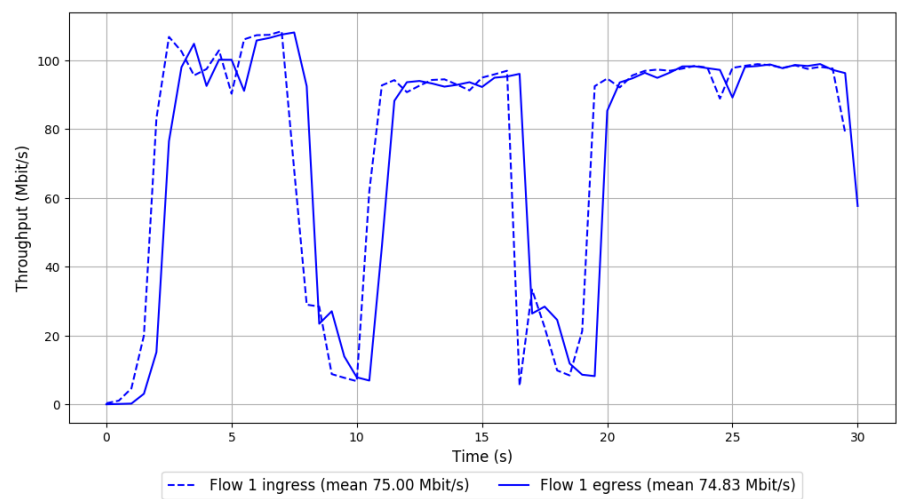
-- Flow 1:

Average throughput: 74.83 Mbit/s

95th percentile per-packet one-way delay: 111.232 ms

Loss rate: 0.98%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-06-30 01:01:42

End at: 2018-06-30 01:02:12

Local clock offset: 0.11 ms

Remote clock offset: 0.098 ms

Below is generated by plot.py at 2018-06-30 03:56:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 60.99 Mbit/s

95th percentile per-packet one-way delay: 112.290 ms

Loss rate: 0.91%

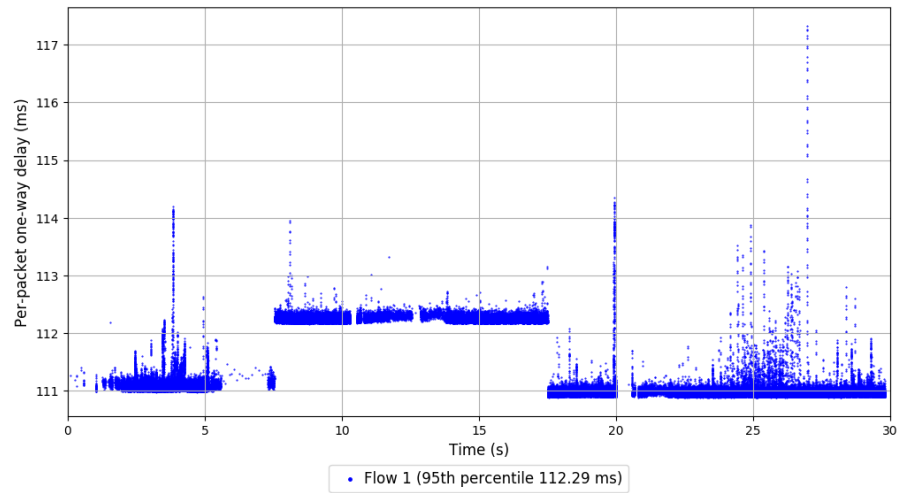
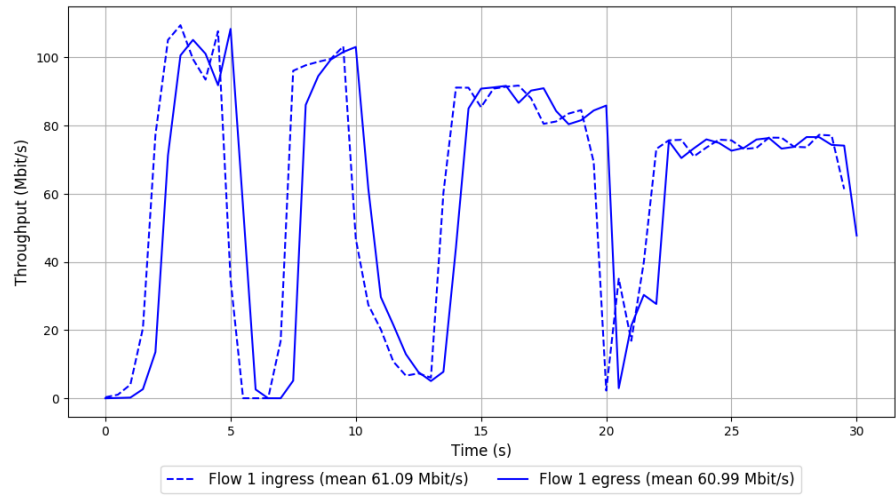
-- Flow 1:

Average throughput: 60.99 Mbit/s

95th percentile per-packet one-way delay: 112.290 ms

Loss rate: 0.91%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-06-30 01:23:58

End at: 2018-06-30 01:24:28

Local clock offset: -0.004 ms

Remote clock offset: 0.01 ms

Below is generated by plot.py at 2018-06-30 03:56:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 62.76 Mbit/s

95th percentile per-packet one-way delay: 111.380 ms

Loss rate: 0.88%

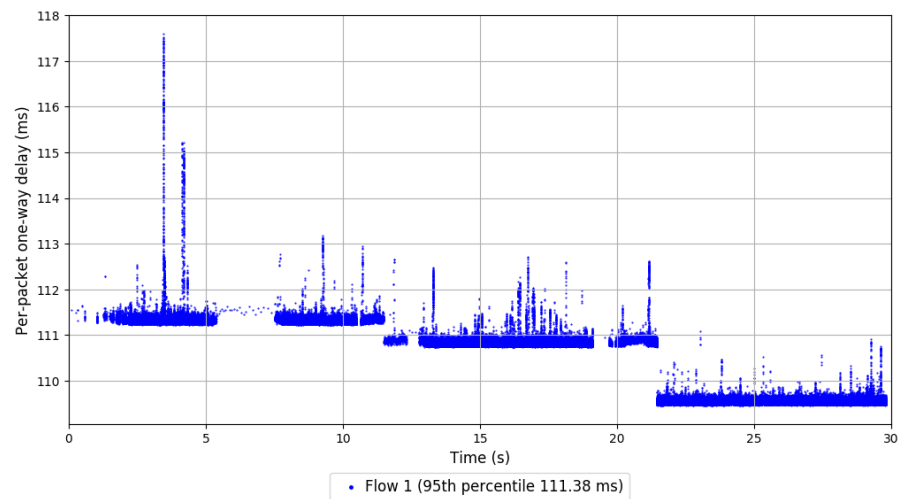
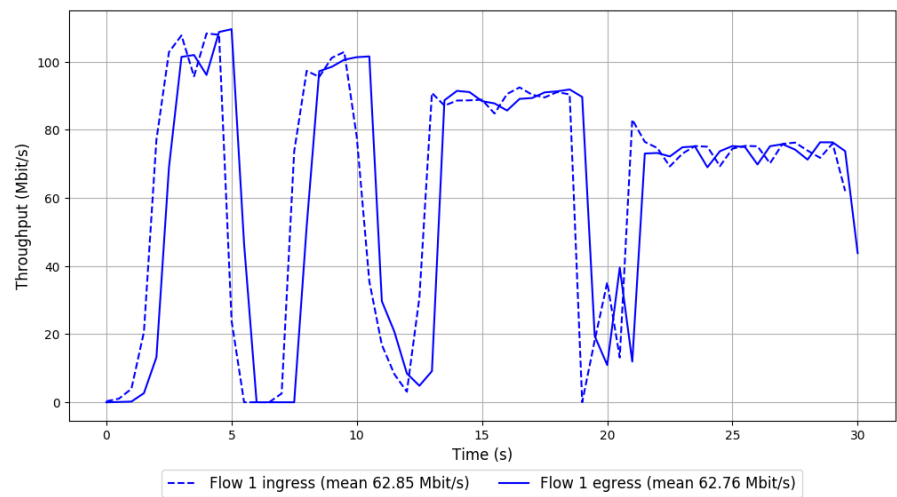
-- Flow 1:

Average throughput: 62.76 Mbit/s

95th percentile per-packet one-way delay: 111.380 ms

Loss rate: 0.88%

Run 7: Report of QUIC Cubic — Data Link

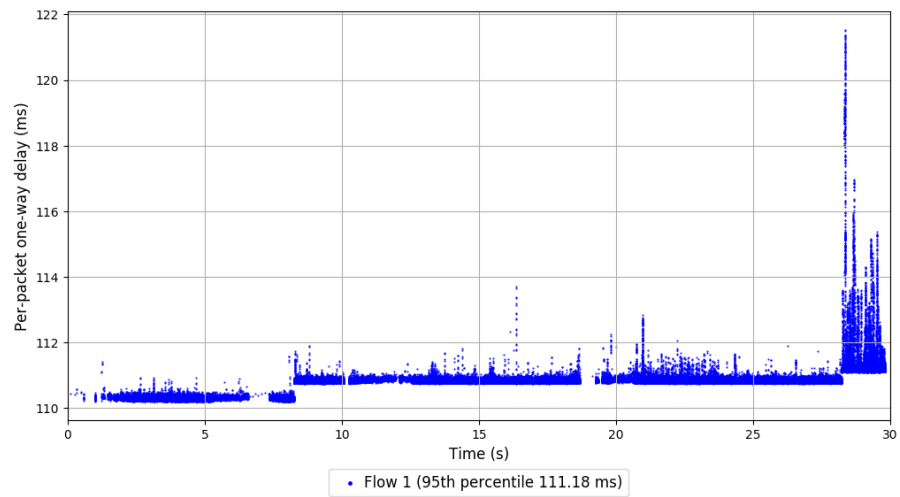
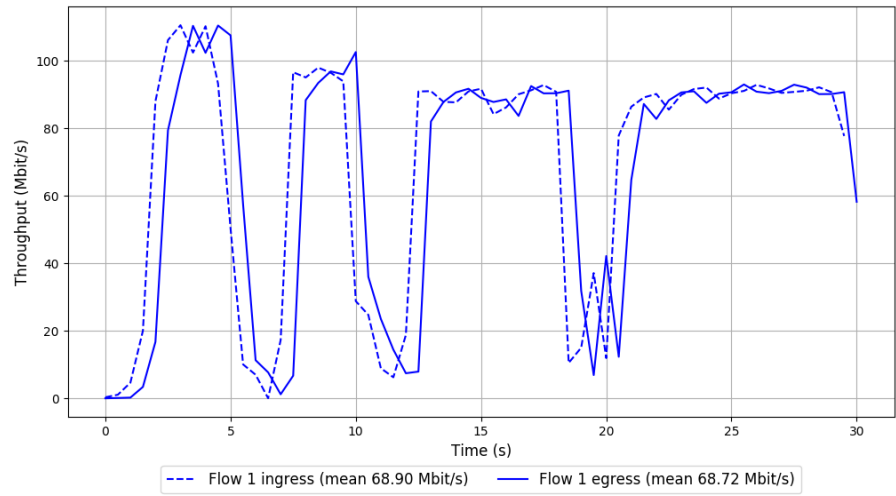


Run 8: Statistics of QUIC Cubic

Start at: 2018-06-30 01:46:41
End at: 2018-06-30 01:47:11
Local clock offset: -0.251 ms
Remote clock offset: -0.037 ms

Below is generated by plot.py at 2018-06-30 03:56:34
Datalink statistics
-- Total of 1 flow:
Average throughput: 68.72 Mbit/s
95th percentile per-packet one-way delay: 111.184 ms
Loss rate: 0.99%
-- Flow 1:
Average throughput: 68.72 Mbit/s
95th percentile per-packet one-way delay: 111.184 ms
Loss rate: 0.99%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-06-30 02:09:04

End at: 2018-06-30 02:09:34

Local clock offset: -0.281 ms

Remote clock offset: 0.001 ms

Below is generated by plot.py at 2018-06-30 03:56:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 45.95 Mbit/s

95th percentile per-packet one-way delay: 110.854 ms

Loss rate: 0.95%

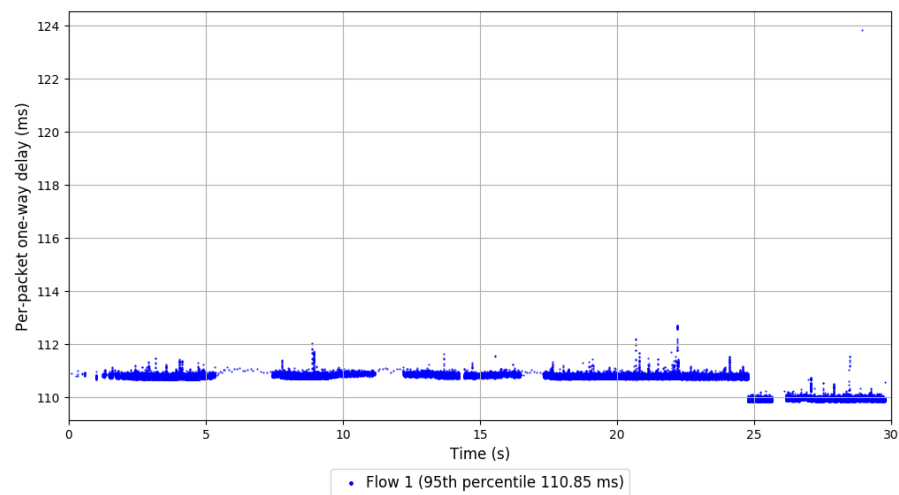
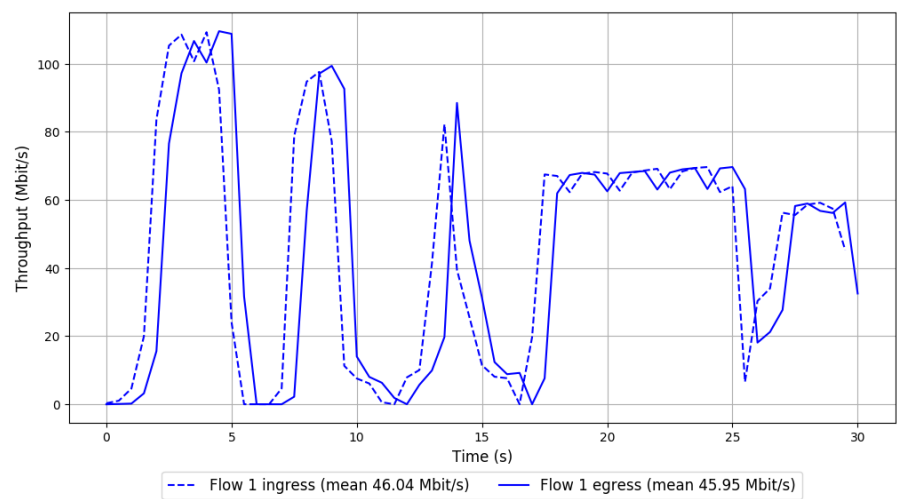
-- Flow 1:

Average throughput: 45.95 Mbit/s

95th percentile per-packet one-way delay: 110.854 ms

Loss rate: 0.95%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

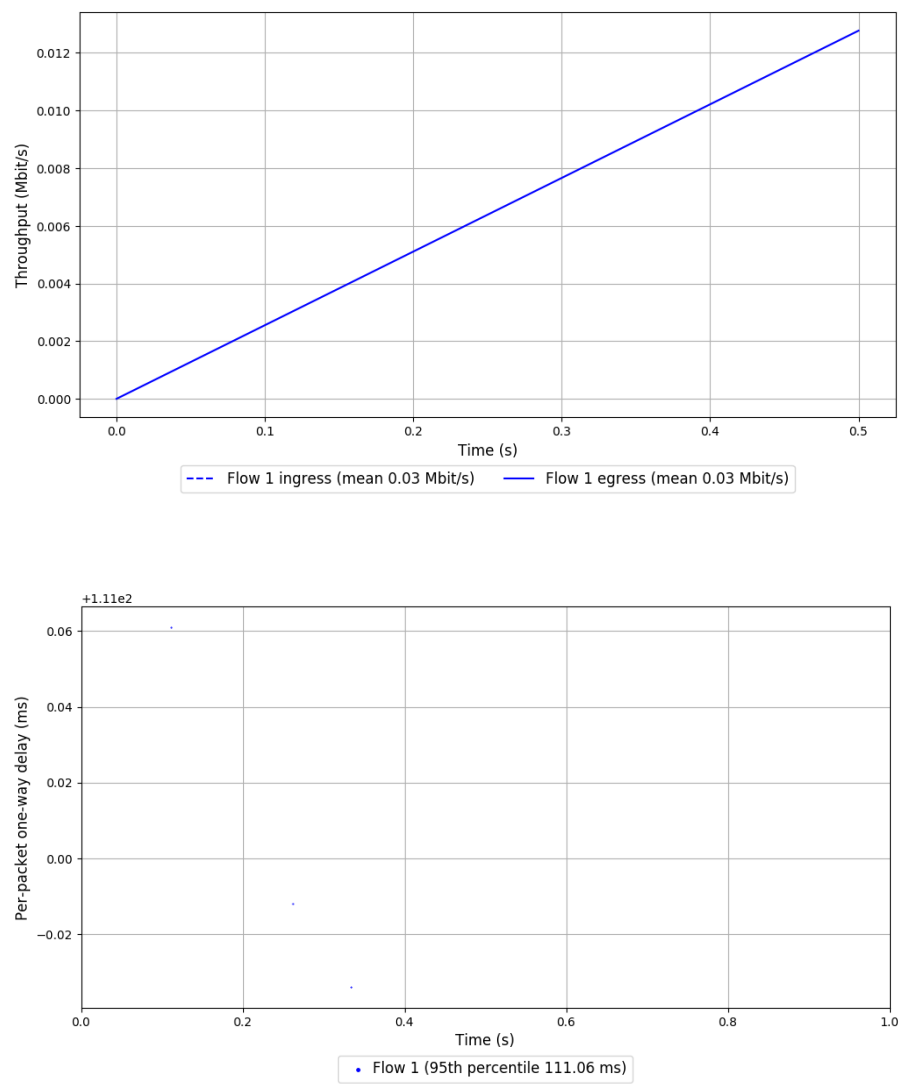
Start at: 2018-06-30 02:31:28

End at: 2018-06-30 02:31:58

Local clock offset: -0.092 ms

Remote clock offset: -0.029 ms

Run 10: Report of QUIC Cubic — Data Link

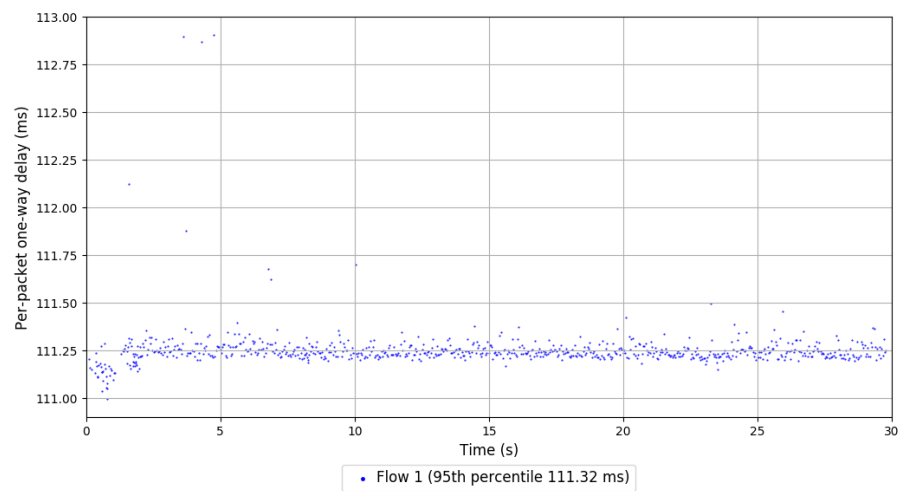
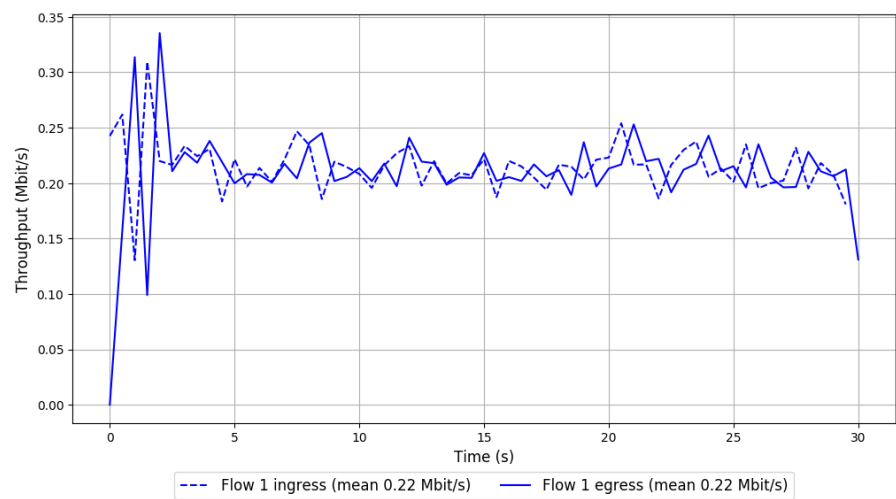


```
Run 1: Statistics of SCReAM

Start at: 2018-06-29 23:22:08
End at: 2018-06-29 23:22:38
Local clock offset: -0.014 ms
Remote clock offset: 0.025 ms

# Below is generated by plot.py at 2018-06-30 03:56:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 111.324 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 111.324 ms
Loss rate: 0.77%
```


Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2018-06-29 23:44:41

End at: 2018-06-29 23:45:11

Local clock offset: 1.305 ms

Remote clock offset: 0.109 ms

Below is generated by plot.py at 2018-06-30 03:56:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 113.018 ms

Loss rate: 0.77%

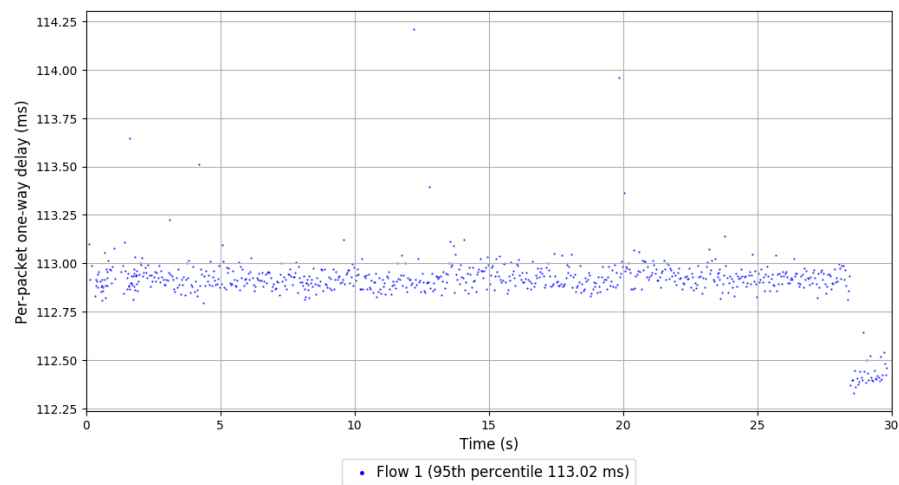
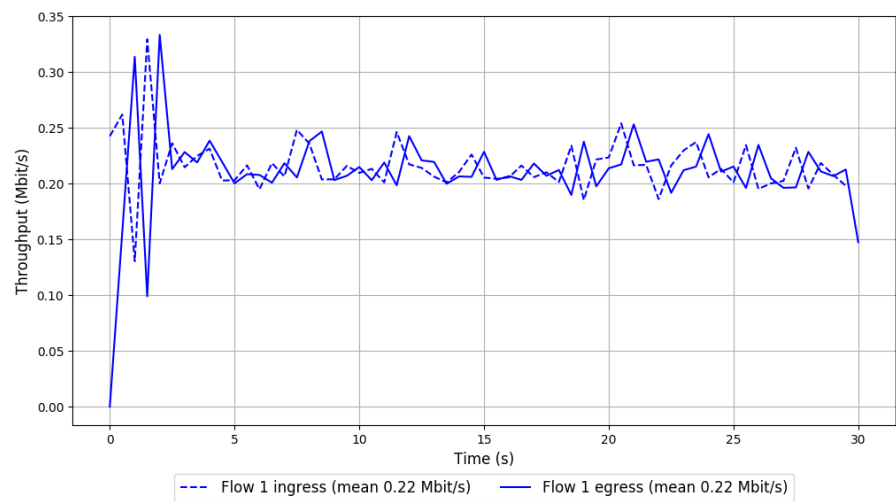
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 113.018 ms

Loss rate: 0.77%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-06-30 00:06:44

End at: 2018-06-30 00:07:14

Local clock offset: 0.025 ms

Remote clock offset: 0.079 ms

Below is generated by plot.py at 2018-06-30 03:56:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 111.513 ms

Loss rate: 0.77%

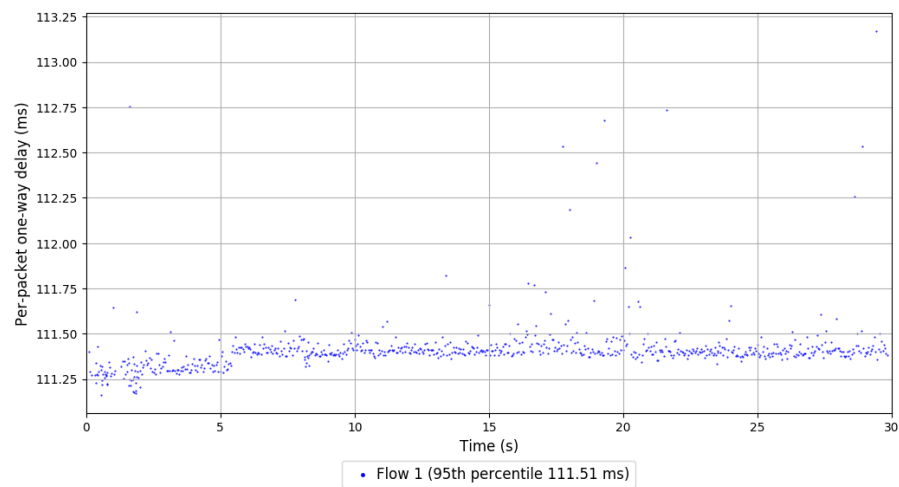
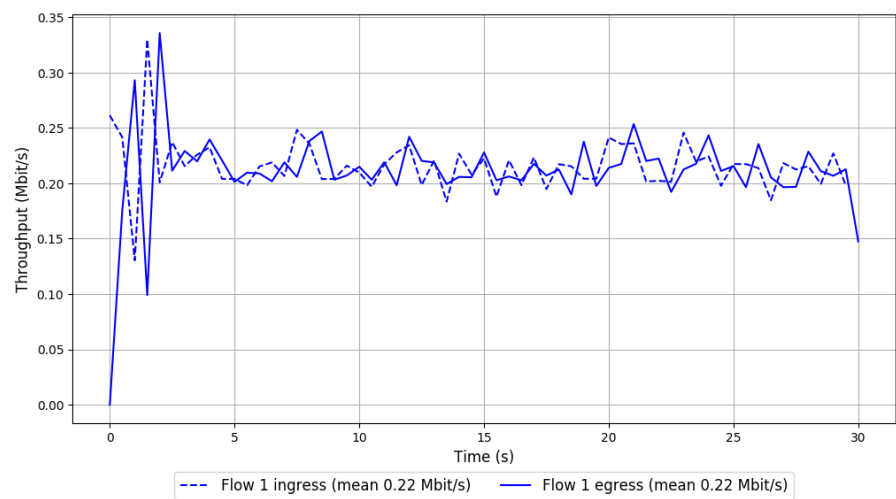
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 111.513 ms

Loss rate: 0.77%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2018-06-30 00:28:44

End at: 2018-06-30 00:29:14

Local clock offset: 0.244 ms

Remote clock offset: 0.094 ms

Below is generated by plot.py at 2018-06-30 03:56:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 111.294 ms

Loss rate: 0.77%

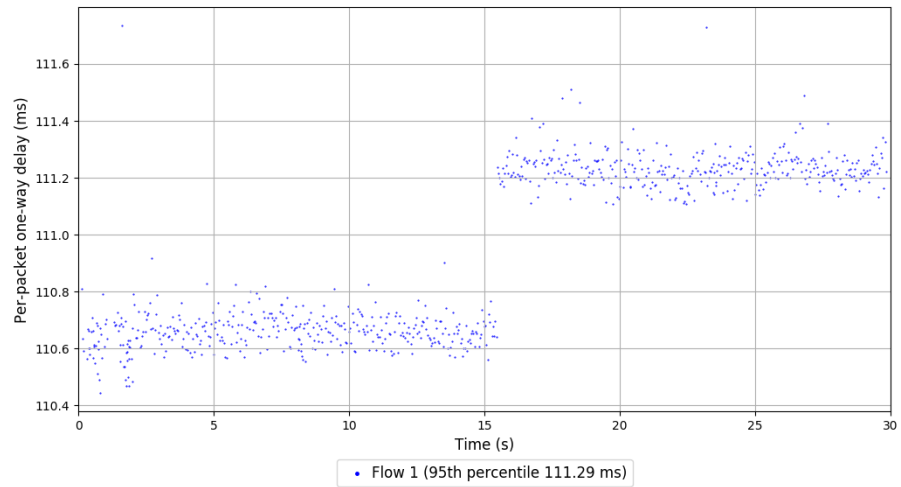
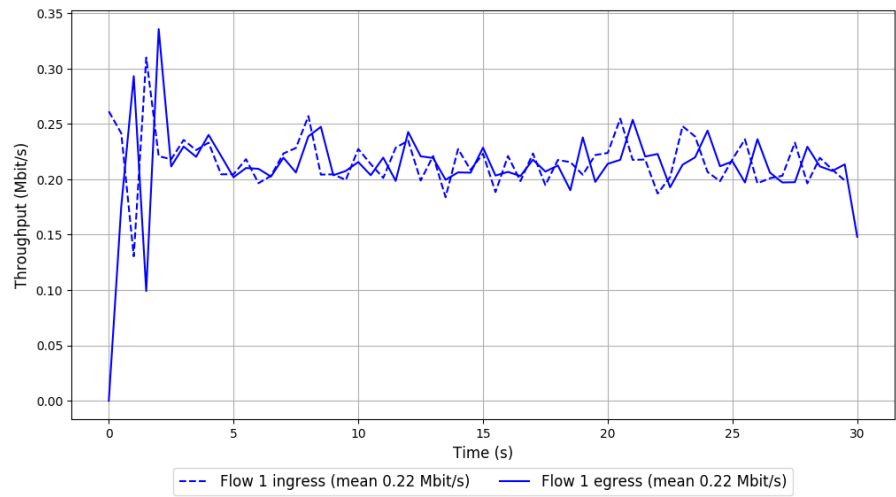
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 111.294 ms

Loss rate: 0.77%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-06-30 00:51:04

End at: 2018-06-30 00:51:34

Local clock offset: 0.002 ms

Remote clock offset: 0.1 ms

Below is generated by plot.py at 2018-06-30 03:56:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.11 Mbit/s

95th percentile per-packet one-way delay: 111.249 ms

Loss rate: 0.73%

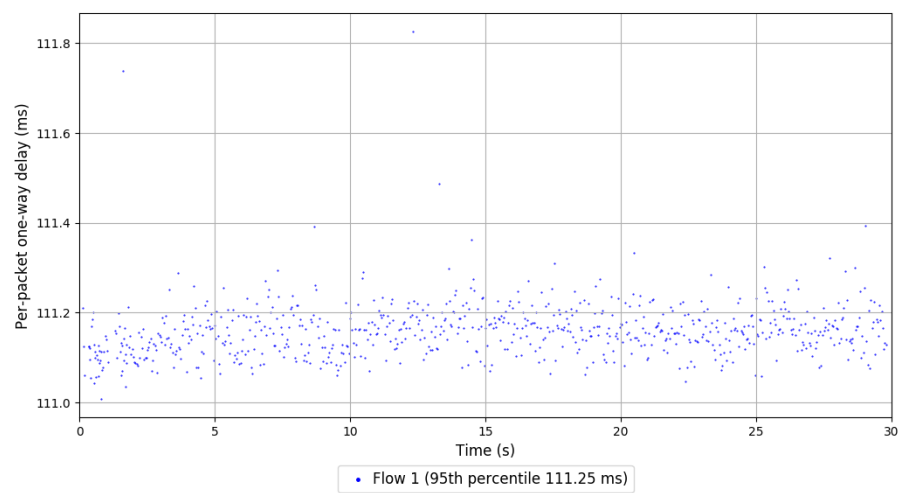
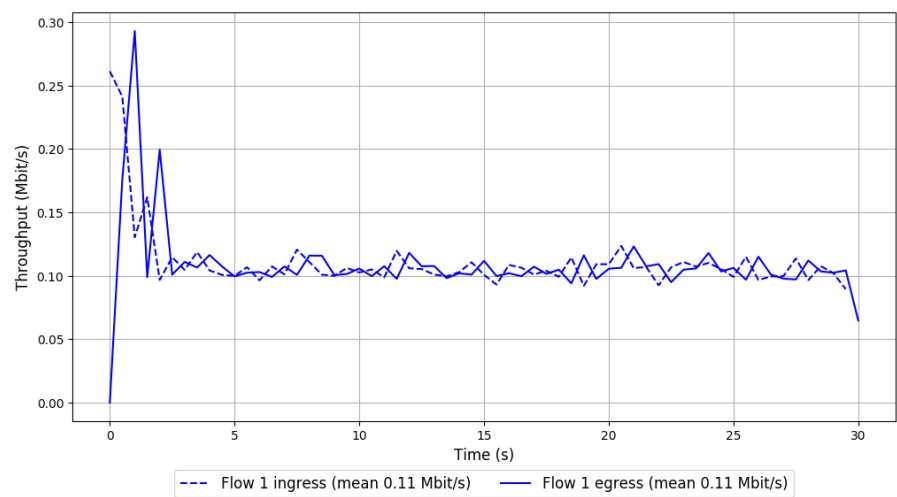
-- Flow 1:

Average throughput: 0.11 Mbit/s

95th percentile per-packet one-way delay: 111.249 ms

Loss rate: 0.73%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-06-30 01:13:17

End at: 2018-06-30 01:13:47

Local clock offset: 0.029 ms

Remote clock offset: 0.509 ms

Below is generated by plot.py at 2018-06-30 03:56:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 111.240 ms

Loss rate: 0.77%

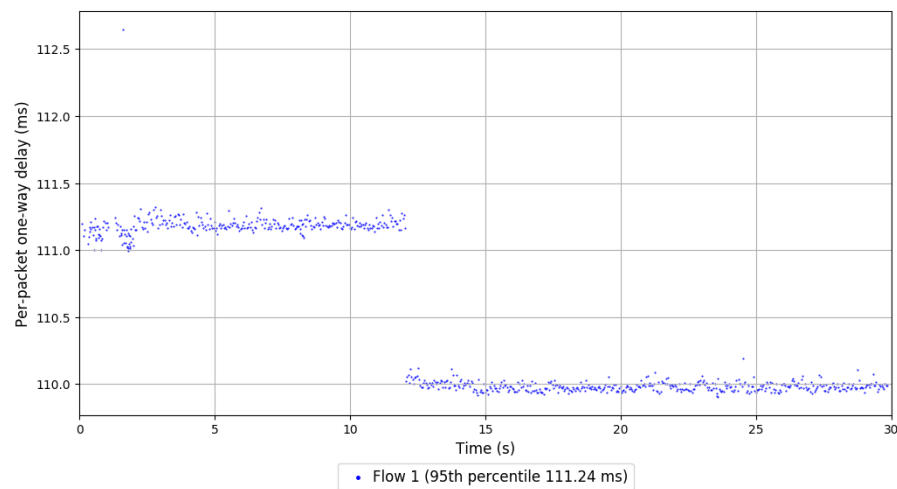
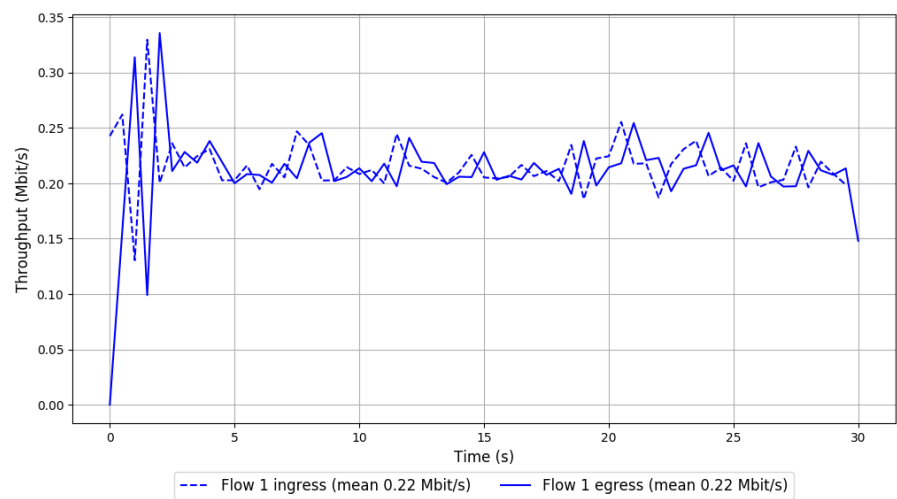
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 111.240 ms

Loss rate: 0.77%

Run 6: Report of SReAM — Data Link

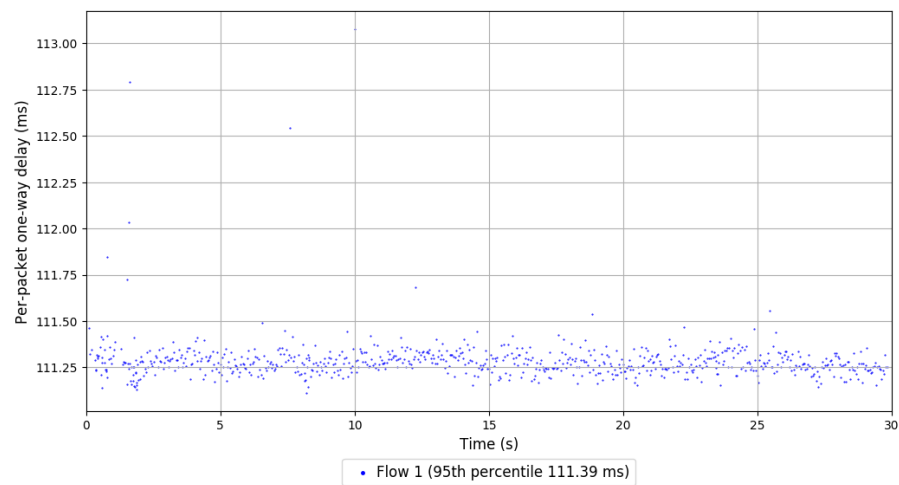
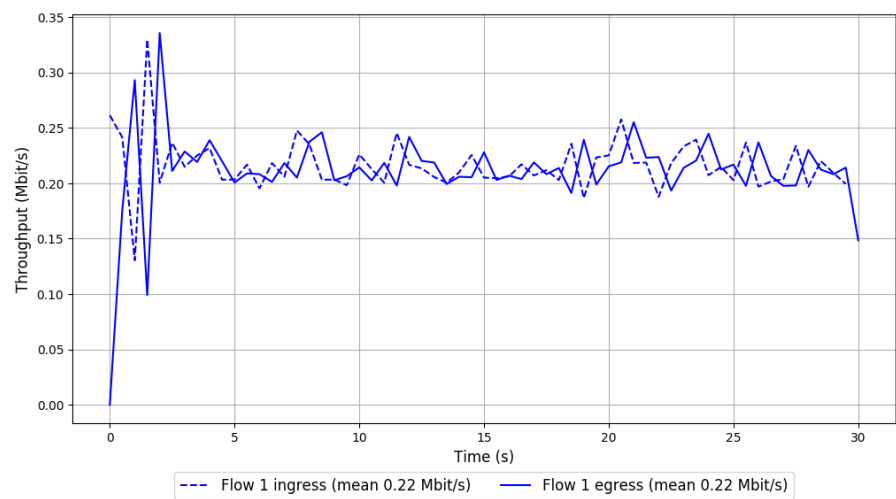


Run 7: Statistics of SCReAM

Start at: 2018-06-30 01:35:49
End at: 2018-06-30 01:36:19
Local clock offset: -0.016 ms
Remote clock offset: -0.026 ms

Below is generated by plot.py at 2018-06-30 03:56:34
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 111.386 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 111.386 ms
Loss rate: 0.77%

Run 7: Report of SReAM — Data Link

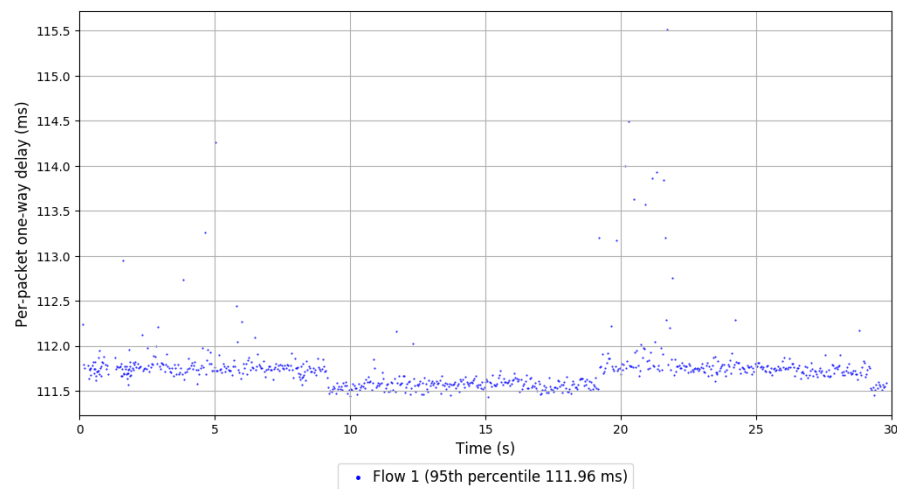
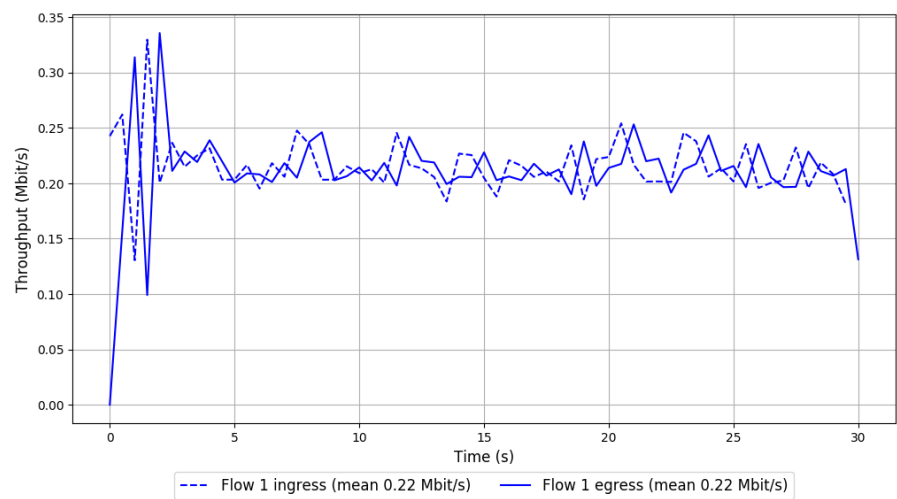


Run 8: Statistics of SCReAM

Start at: 2018-06-30 01:58:30
End at: 2018-06-30 01:59:00
Local clock offset: -0.123 ms
Remote clock offset: -0.367 ms

Below is generated by plot.py at 2018-06-30 03:56:34
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 111.959 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 111.959 ms
Loss rate: 0.77%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-06-30 02:20:50

End at: 2018-06-30 02:21:20

Local clock offset: 0.075 ms

Remote clock offset: 0.362 ms

Below is generated by plot.py at 2018-06-30 03:56:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 111.169 ms

Loss rate: 0.77%

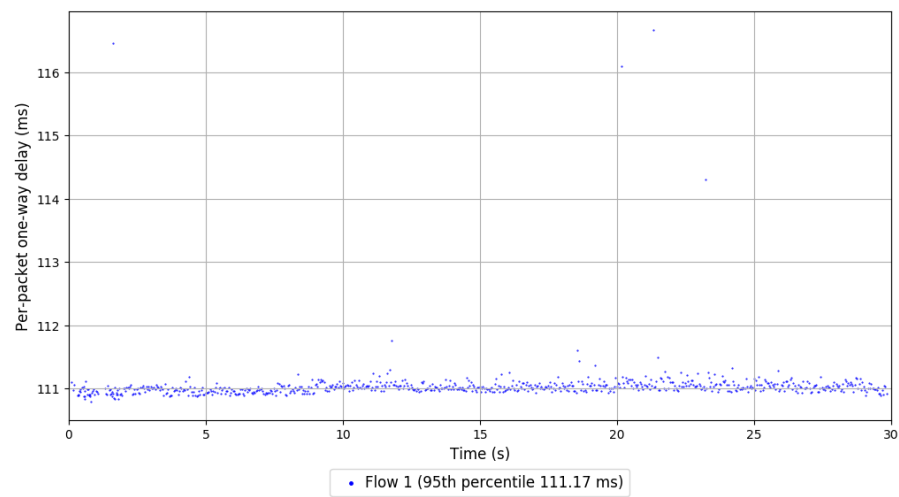
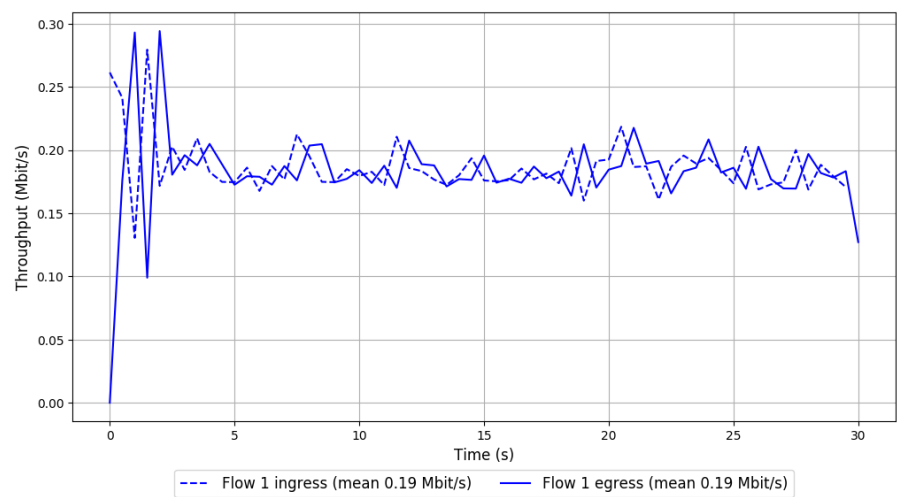
-- Flow 1:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 111.169 ms

Loss rate: 0.77%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SCReAM

Start at: 2018-06-30 02:43:01

End at: 2018-06-30 02:43:31

Local clock offset: 0.156 ms

Remote clock offset: 0.016 ms

Below is generated by plot.py at 2018-06-30 03:56:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 111.286 ms

Loss rate: 0.77%

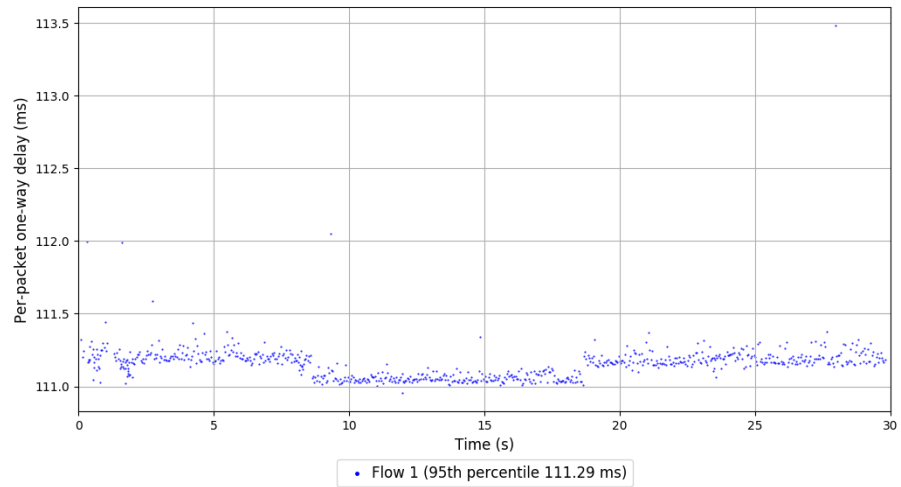
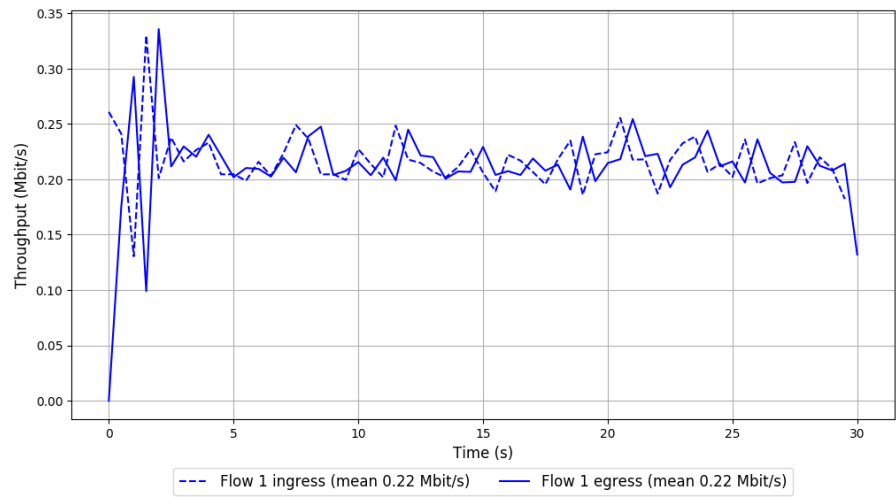
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 111.286 ms

Loss rate: 0.77%

Run 10: Report of SCReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2018-06-29 23:19:35

End at: 2018-06-29 23:20:05

Local clock offset: 0.219 ms

Remote clock offset: 0.373 ms

Below is generated by plot.py at 2018-06-30 03:56:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: 111.482 ms

Loss rate: 1.74%

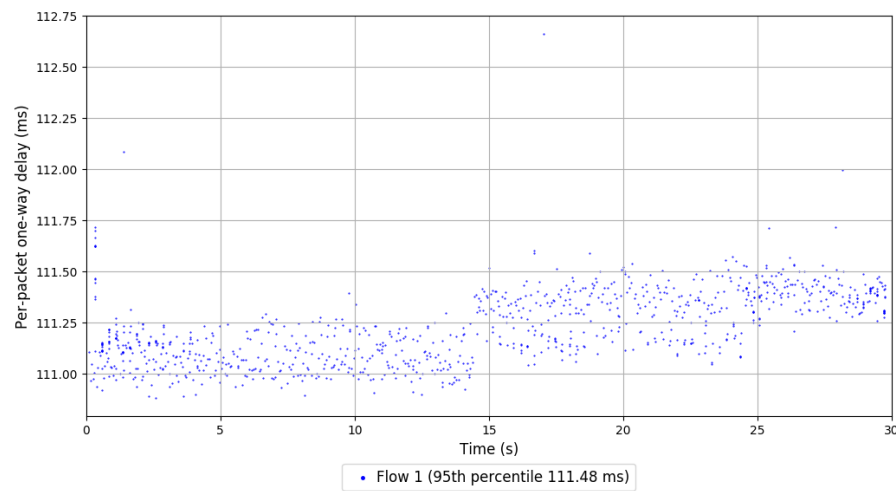
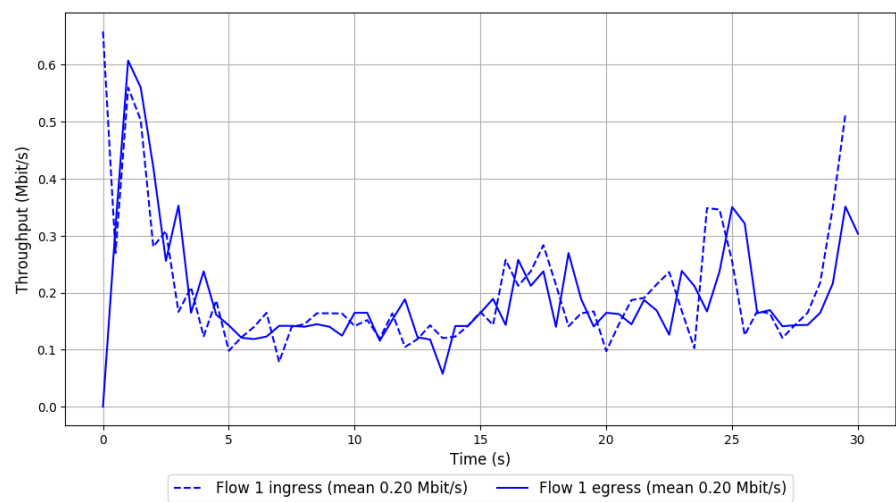
-- Flow 1:

Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: 111.482 ms

Loss rate: 1.74%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-06-29 23:42:04

End at: 2018-06-29 23:42:34

Local clock offset: -0.049 ms

Remote clock offset: 0.44 ms

Below is generated by plot.py at 2018-06-30 03:56:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 111.038 ms

Loss rate: 1.37%

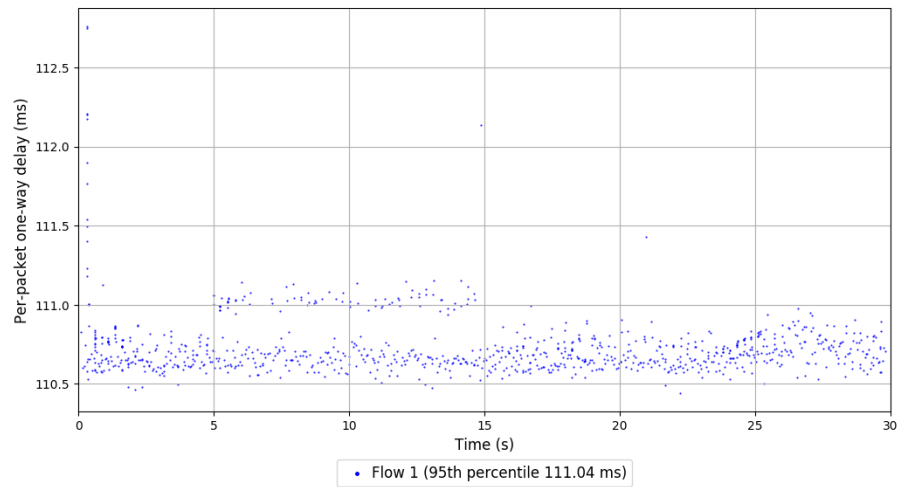
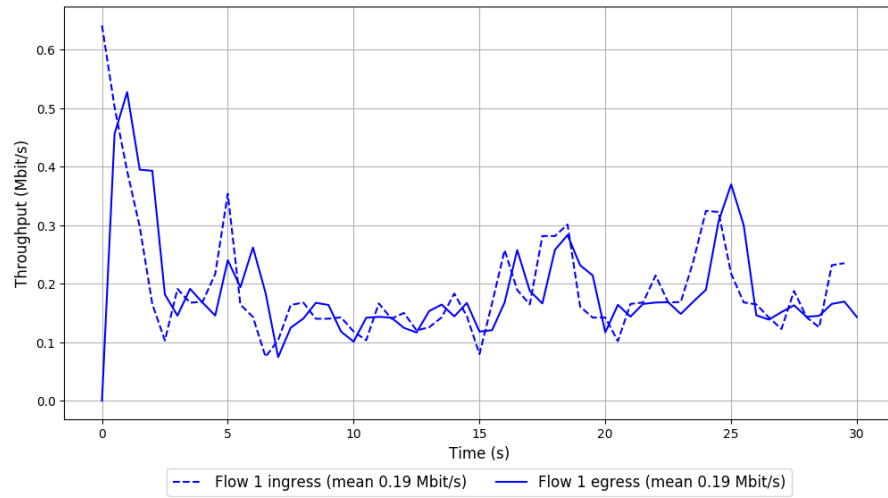
-- Flow 1:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 111.038 ms

Loss rate: 1.37%

Run 2: Report of Sprout — Data Link

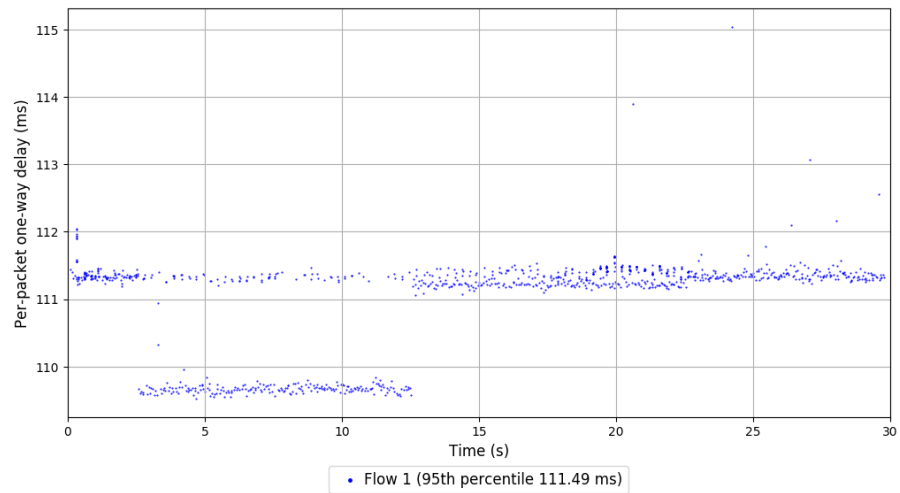
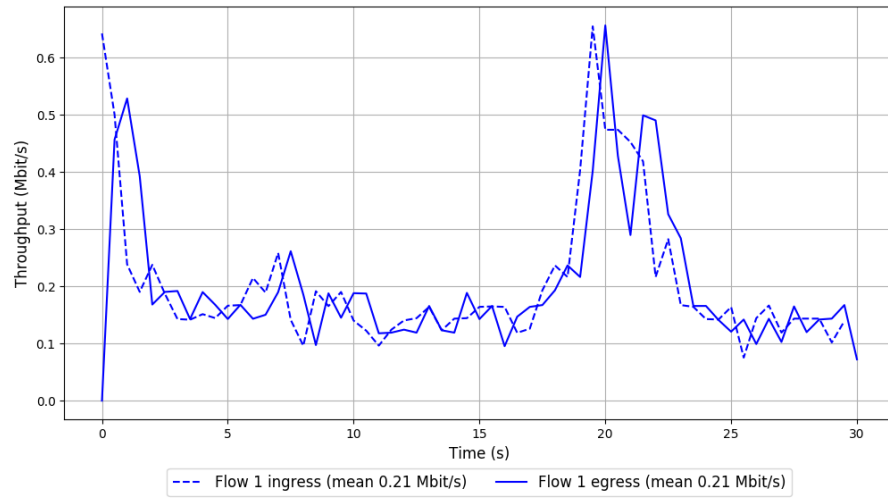


Run 3: Statistics of Sprout

Start at: 2018-06-30 00:04:27
End at: 2018-06-30 00:04:57
Local clock offset: -0.192 ms
Remote clock offset: -0.255 ms

Below is generated by plot.py at 2018-06-30 03:56:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 111.490 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 111.490 ms
Loss rate: 0.57%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-06-30 00:26:27

End at: 2018-06-30 00:26:57

Local clock offset: -0.096 ms

Remote clock offset: 0.045 ms

Below is generated by plot.py at 2018-06-30 03:56:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 112.316 ms

Loss rate: 0.63%

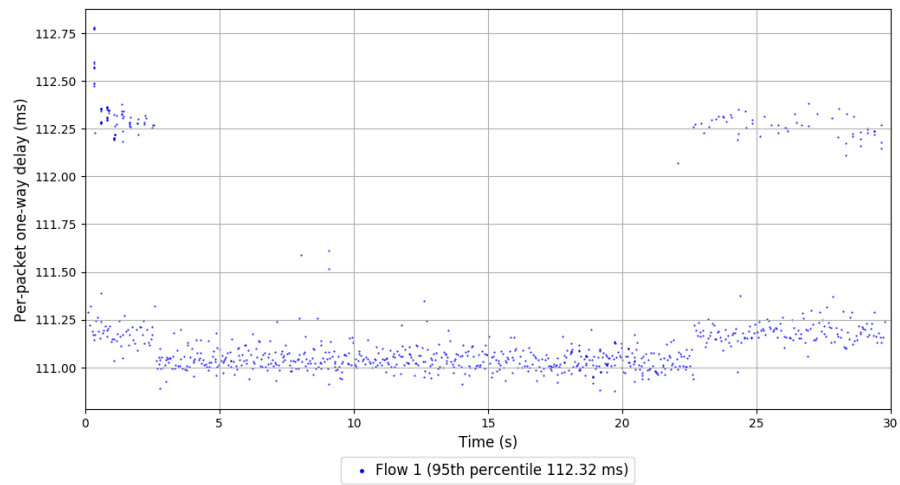
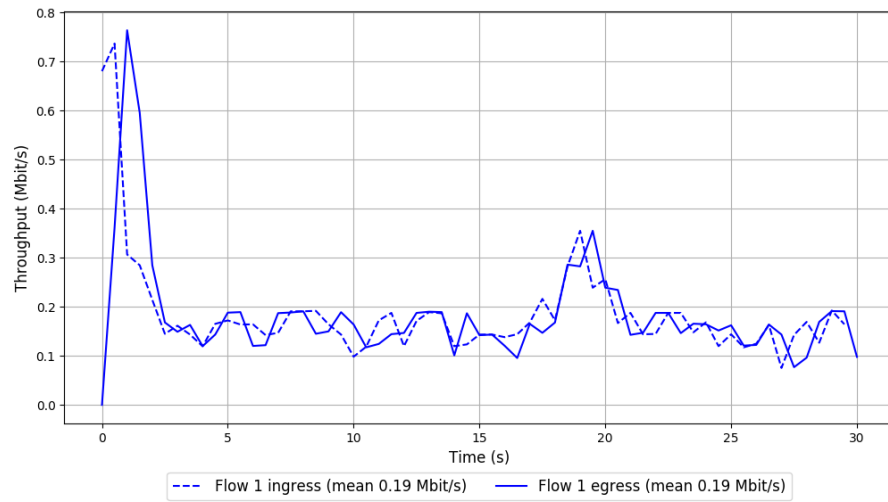
-- Flow 1:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 112.316 ms

Loss rate: 0.63%

Run 4: Report of Sprout — Data Link

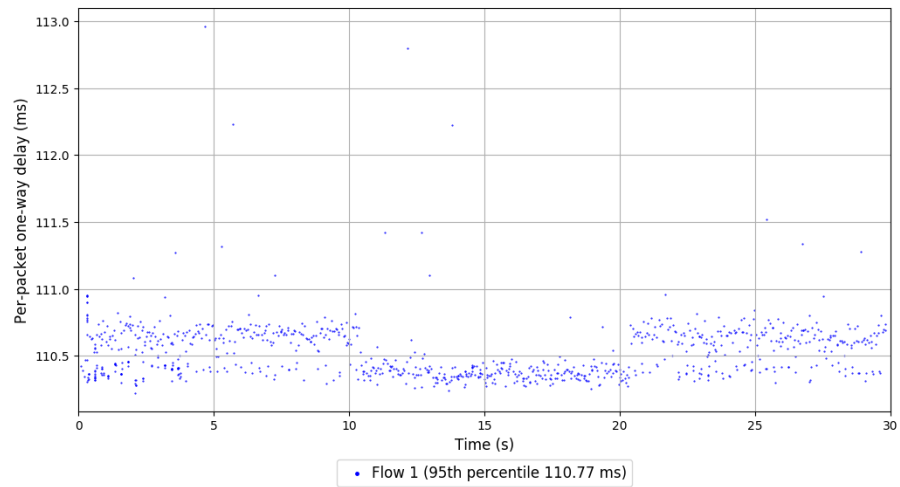
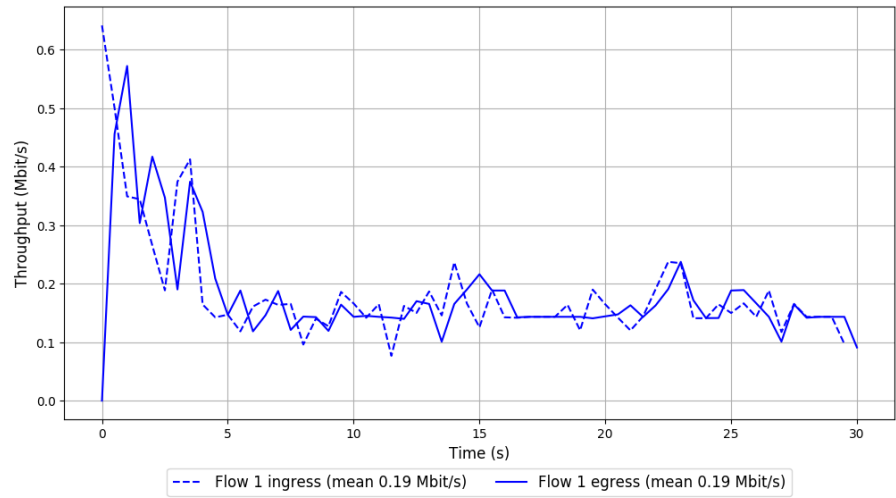


Run 5: Statistics of Sprout

Start at: 2018-06-30 00:48:29
End at: 2018-06-30 00:48:59
Local clock offset: -1.273 ms
Remote clock offset: -0.333 ms

Below is generated by plot.py at 2018-06-30 03:56:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 110.772 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 110.772 ms
Loss rate: 0.66%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-06-30 01:10:41

End at: 2018-06-30 01:11:11

Local clock offset: 0.041 ms

Remote clock offset: 0.483 ms

Below is generated by plot.py at 2018-06-30 03:56:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: 111.990 ms

Loss rate: 0.39%

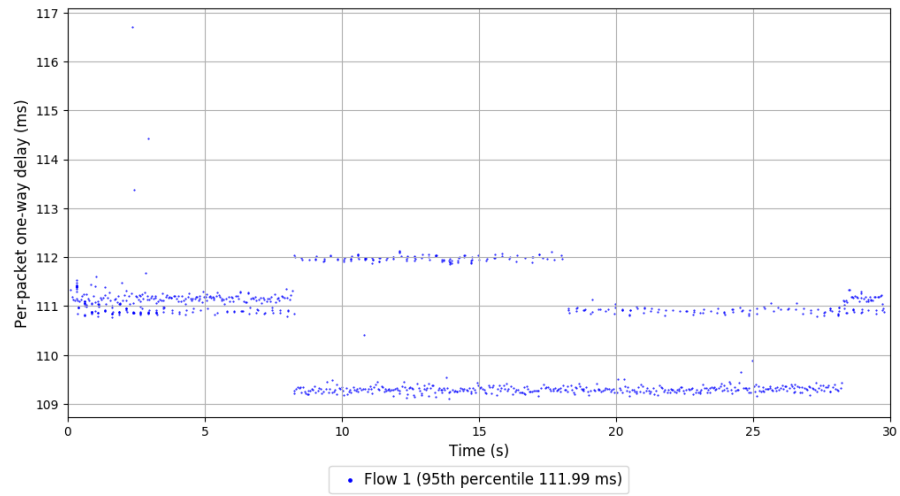
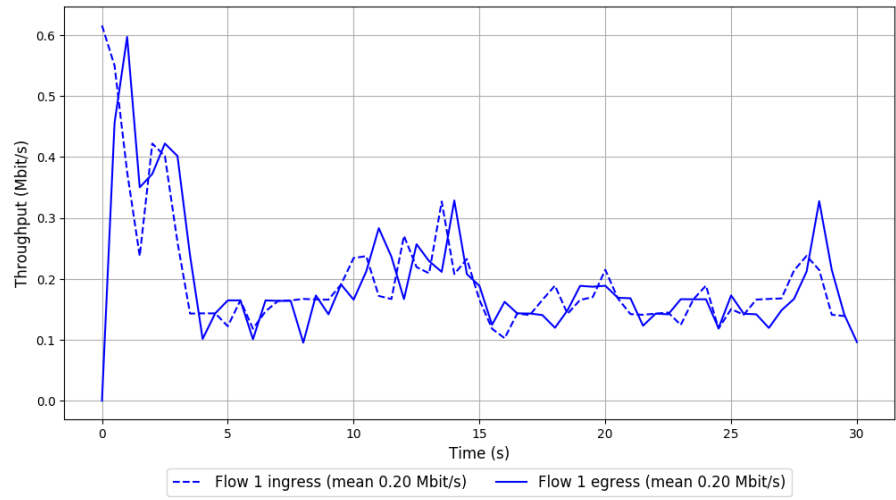
-- Flow 1:

Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: 111.990 ms

Loss rate: 0.39%

Run 6: Report of Sprout — Data Link

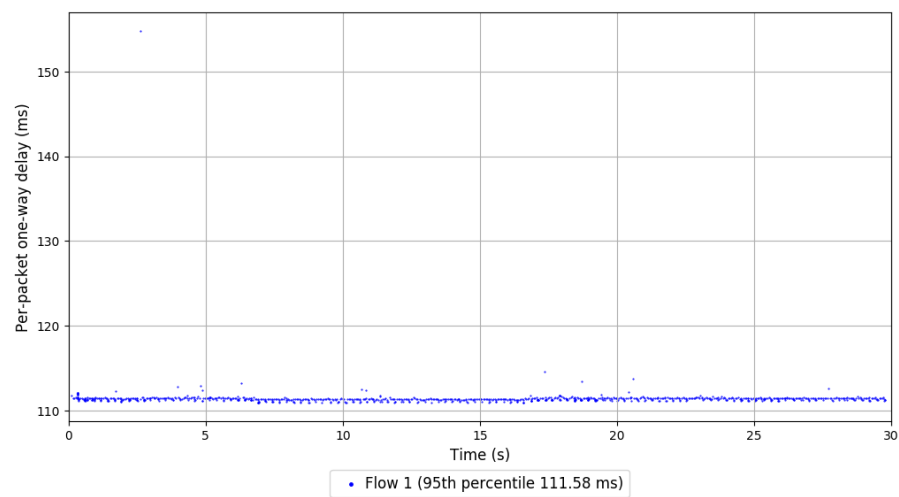
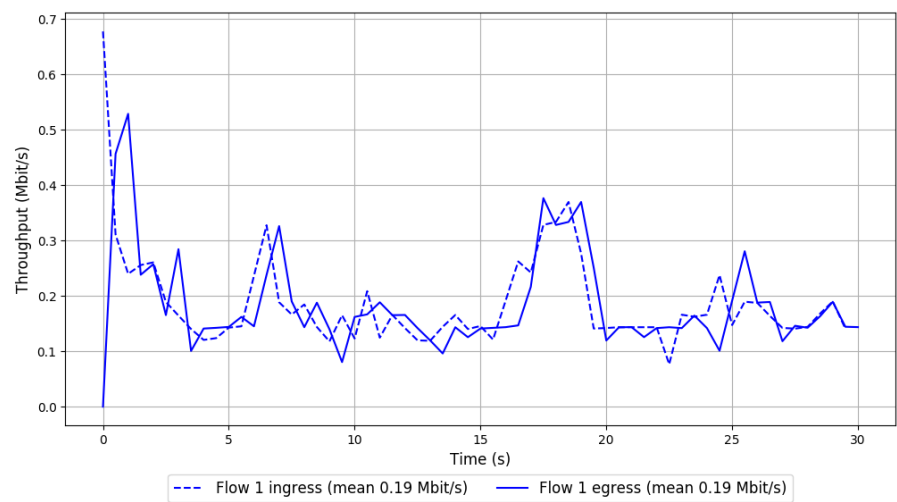


Run 7: Statistics of Sprout

Start at: 2018-06-30 01:33:12
End at: 2018-06-30 01:33:42
Local clock offset: -0.057 ms
Remote clock offset: 0.004 ms

Below is generated by plot.py at 2018-06-30 03:56:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 111.580 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 111.580 ms
Loss rate: 0.41%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-06-30 01:55:54

End at: 2018-06-30 01:56:24

Local clock offset: 1.223 ms

Remote clock offset: 0.369 ms

Below is generated by plot.py at 2018-06-30 03:56:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 112.520 ms

Loss rate: 0.56%

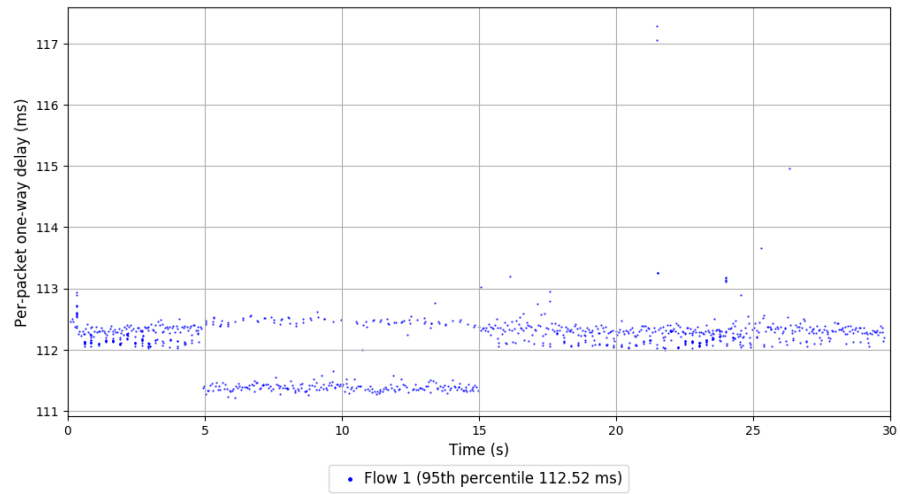
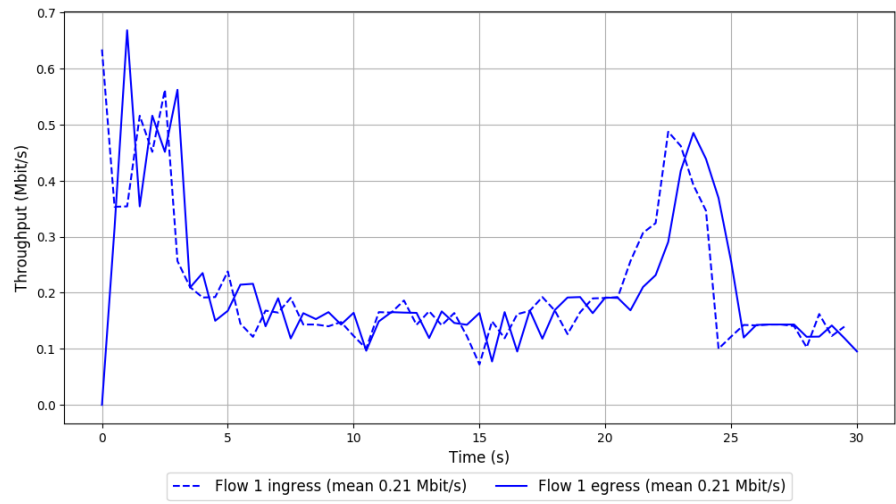
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 112.520 ms

Loss rate: 0.56%

Run 8: Report of Sprout — Data Link

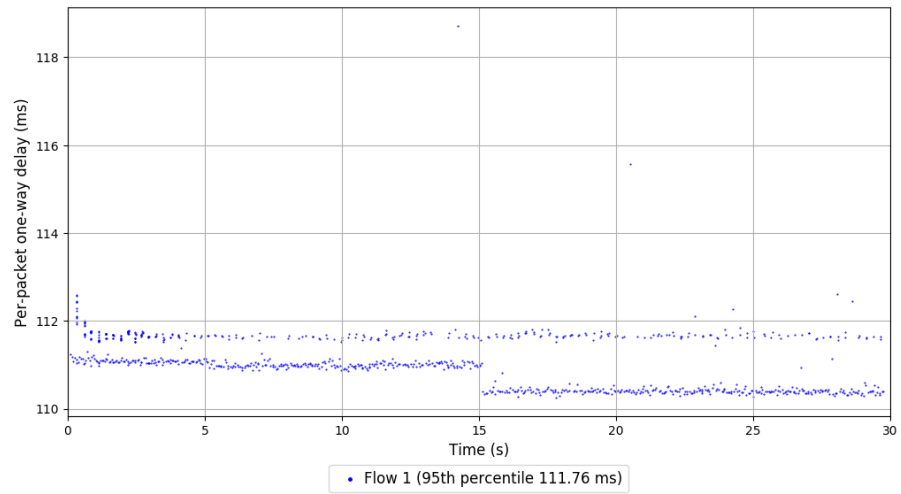
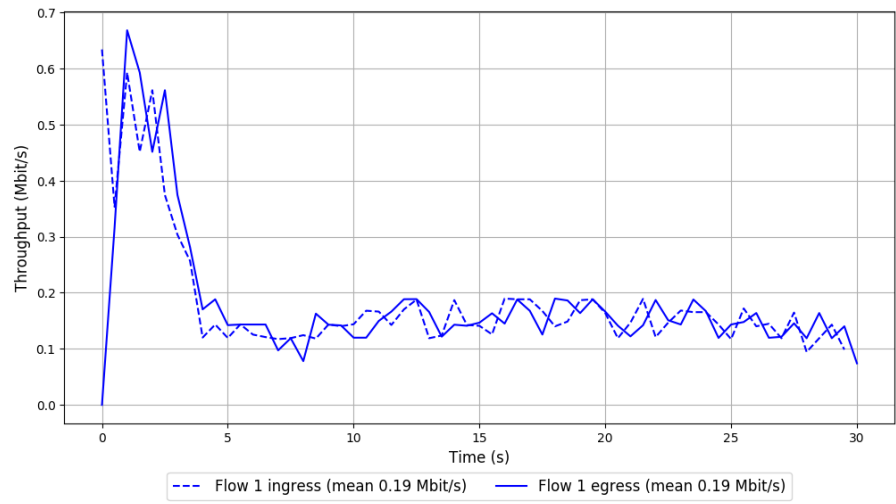


Run 9: Statistics of Sprout

Start at: 2018-06-30 02:18:14
End at: 2018-06-30 02:18:44
Local clock offset: -0.038 ms
Remote clock offset: -0.049 ms

Below is generated by plot.py at 2018-06-30 03:56:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 111.757 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 111.757 ms
Loss rate: 0.43%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-06-30 02:40:25

End at: 2018-06-30 02:40:55

Local clock offset: -0.114 ms

Remote clock offset: 0.008 ms

Below is generated by plot.py at 2018-06-30 03:56:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 111.542 ms

Loss rate: 0.47%

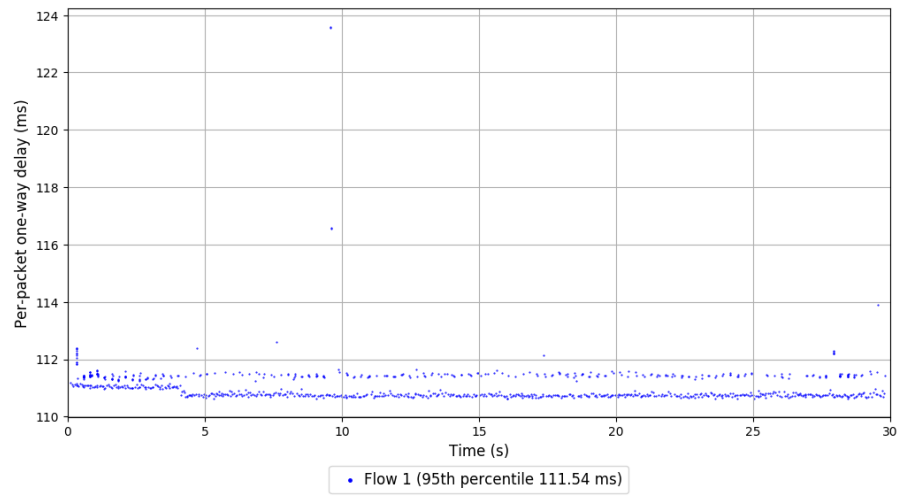
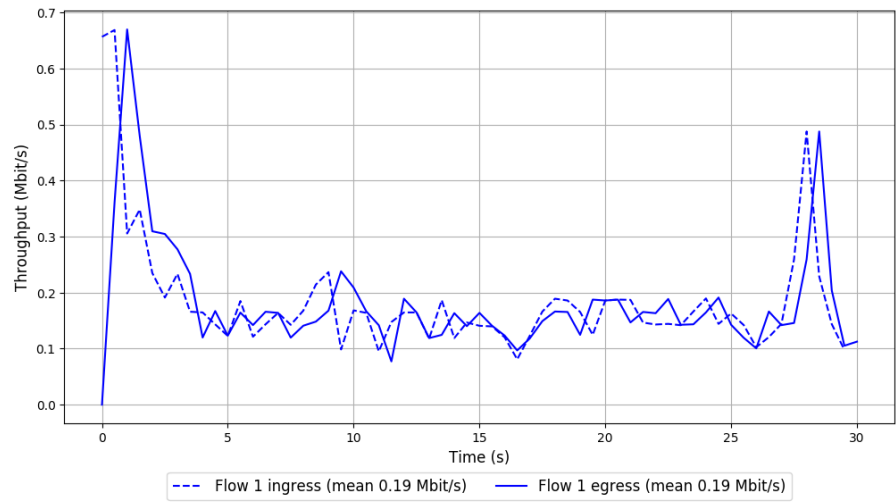
-- Flow 1:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 111.542 ms

Loss rate: 0.47%

Run 10: Report of Sprout — Data Link

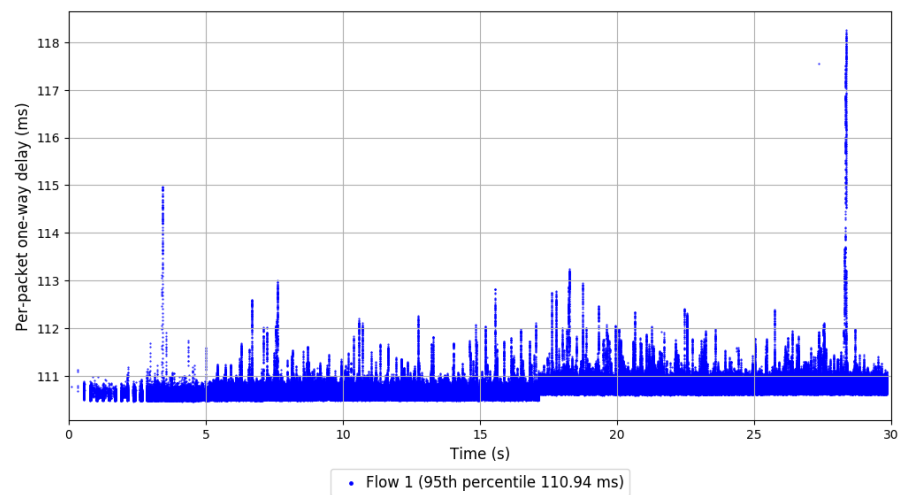
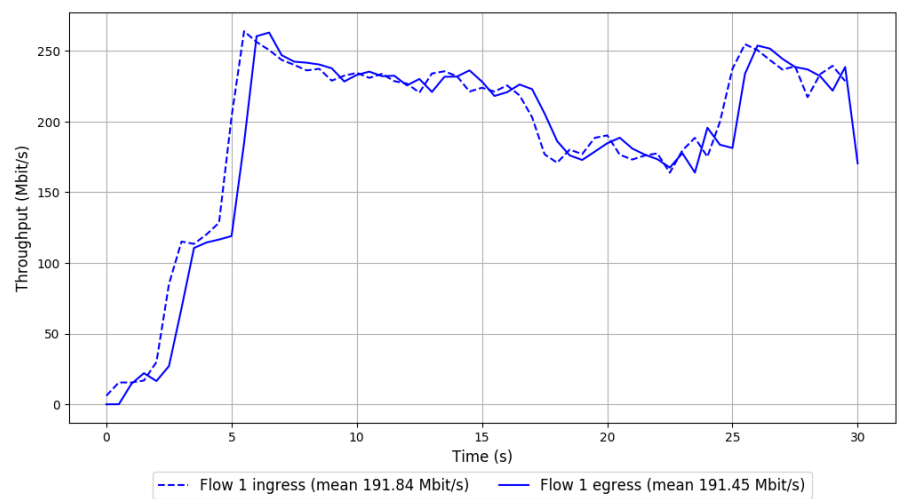


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-06-29 23:20:42
End at: 2018-06-29 23:21:12
Local clock offset: -0.05 ms
Remote clock offset: 0.412 ms

# Below is generated by plot.py at 2018-06-30 03:59:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 191.45 Mbit/s
95th percentile per-packet one-way delay: 110.942 ms
Loss rate: 0.94%
-- Flow 1:
Average throughput: 191.45 Mbit/s
95th percentile per-packet one-way delay: 110.942 ms
Loss rate: 0.94%
```


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



Run 2: Statistics of TaoVA-100x

Start at: 2018-06-29 23:43:12

End at: 2018-06-29 23:43:42

Local clock offset: -1.32 ms

Remote clock offset: 0.064 ms

Below is generated by plot.py at 2018-06-30 03:59:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 227.27 Mbit/s

95th percentile per-packet one-way delay: 109.970 ms

Loss rate: 0.73%

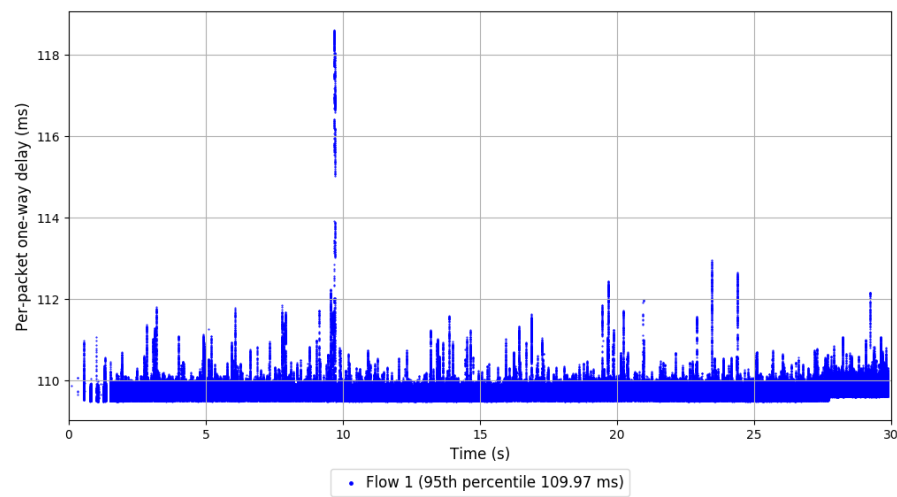
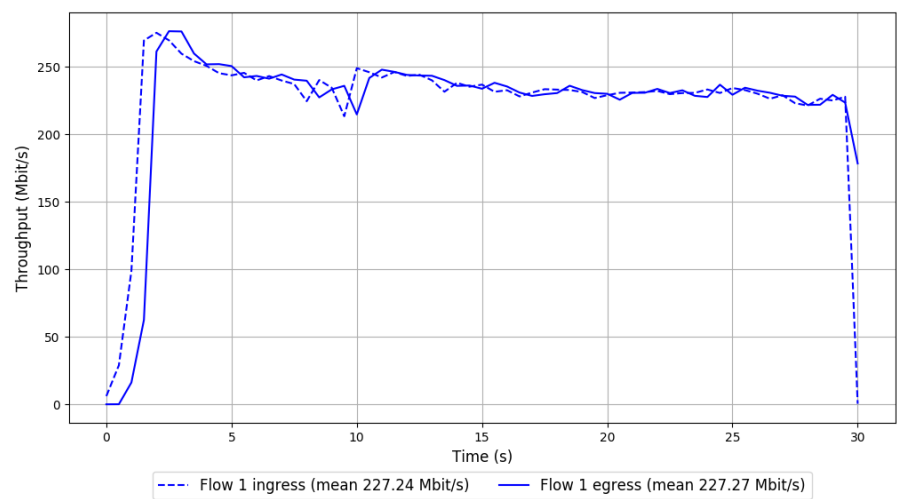
-- Flow 1:

Average throughput: 227.27 Mbit/s

95th percentile per-packet one-way delay: 109.970 ms

Loss rate: 0.73%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-06-30 00:05:34

End at: 2018-06-30 00:06:04

Local clock offset: 1.207 ms

Remote clock offset: 0.108 ms

Below is generated by plot.py at 2018-06-30 03:59:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 16.13 Mbit/s

95th percentile per-packet one-way delay: 112.569 ms

Loss rate: 0.75%

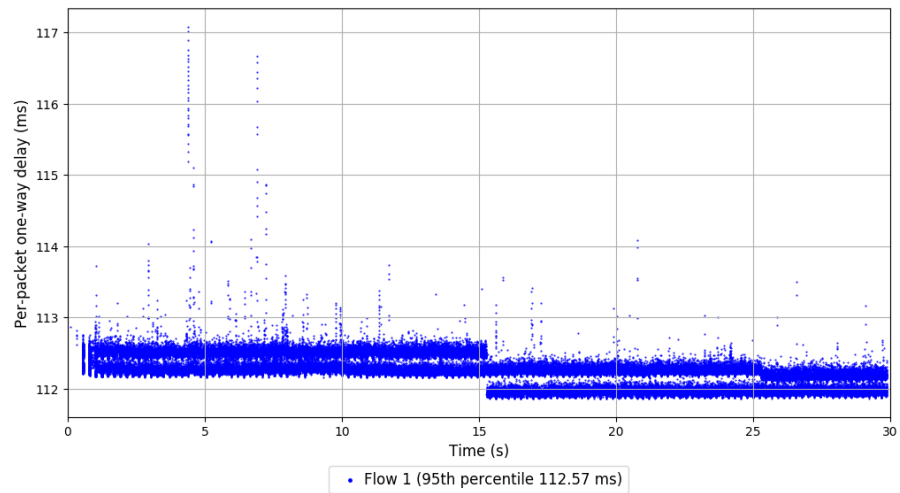
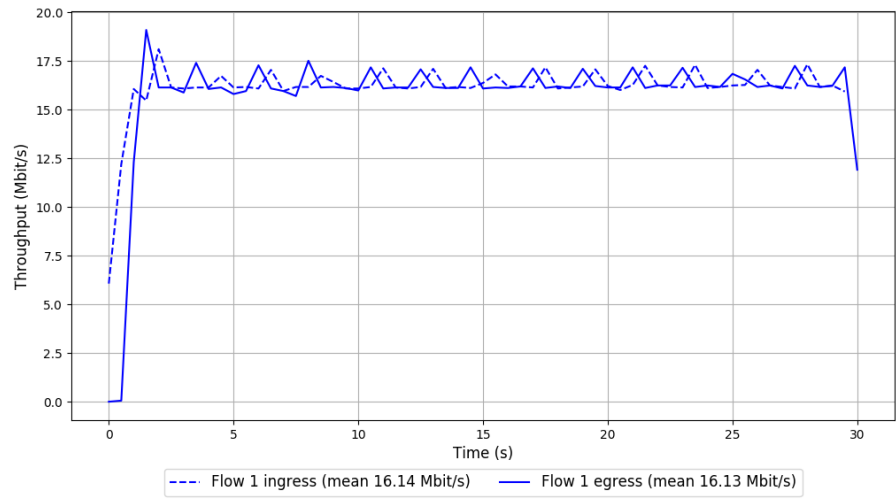
-- Flow 1:

Average throughput: 16.13 Mbit/s

95th percentile per-packet one-way delay: 112.569 ms

Loss rate: 0.75%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-06-30 00:27:34

End at: 2018-06-30 00:28:04

Local clock offset: -0.03 ms

Remote clock offset: -0.272 ms

Below is generated by plot.py at 2018-06-30 03:59:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 16.10 Mbit/s

95th percentile per-packet one-way delay: 112.550 ms

Loss rate: 0.76%

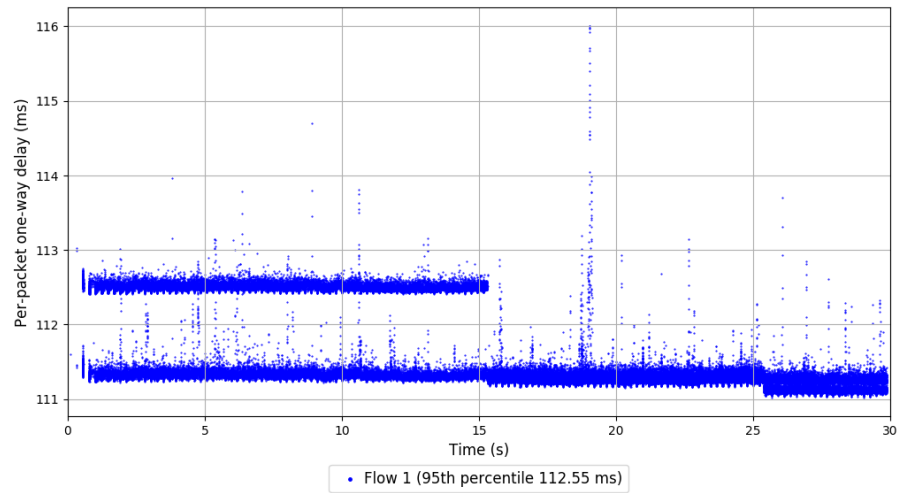
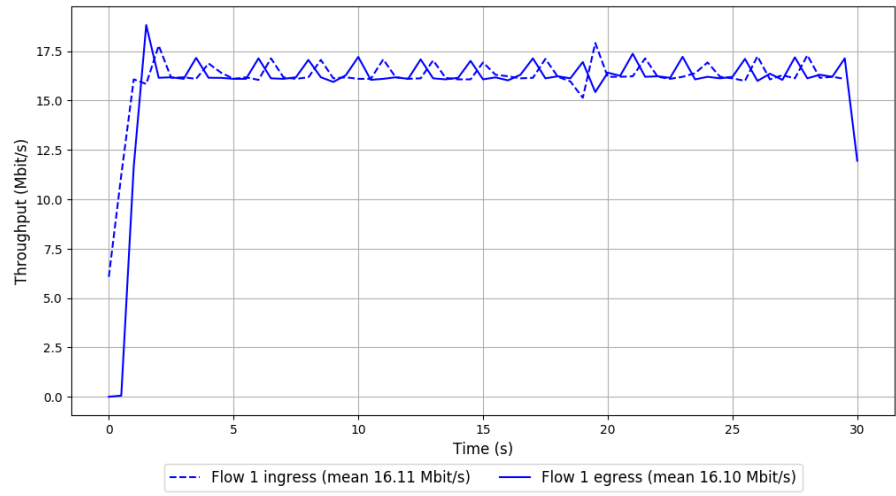
-- Flow 1:

Average throughput: 16.10 Mbit/s

95th percentile per-packet one-way delay: 112.550 ms

Loss rate: 0.76%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-06-30 00:49:36

End at: 2018-06-30 00:50:06

Local clock offset: 0.176 ms

Remote clock offset: -0.252 ms

Below is generated by plot.py at 2018-06-30 04:00:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 214.76 Mbit/s

95th percentile per-packet one-way delay: 112.006 ms

Loss rate: 0.80%

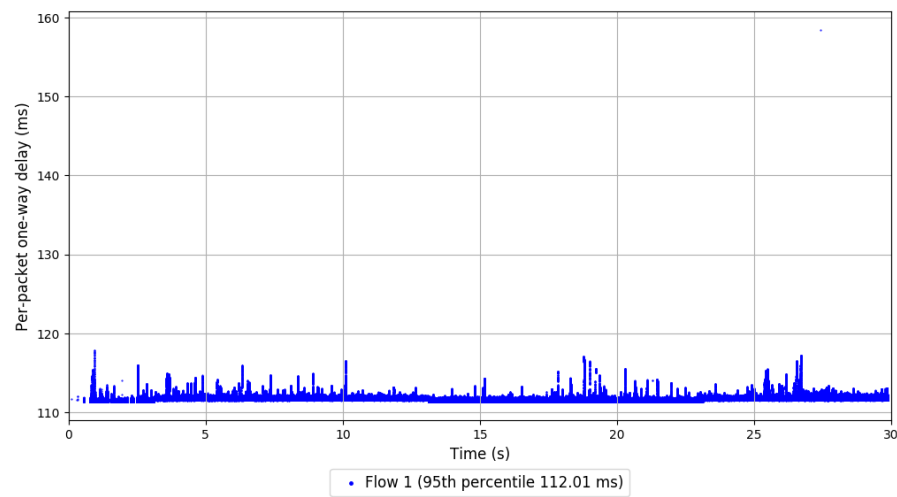
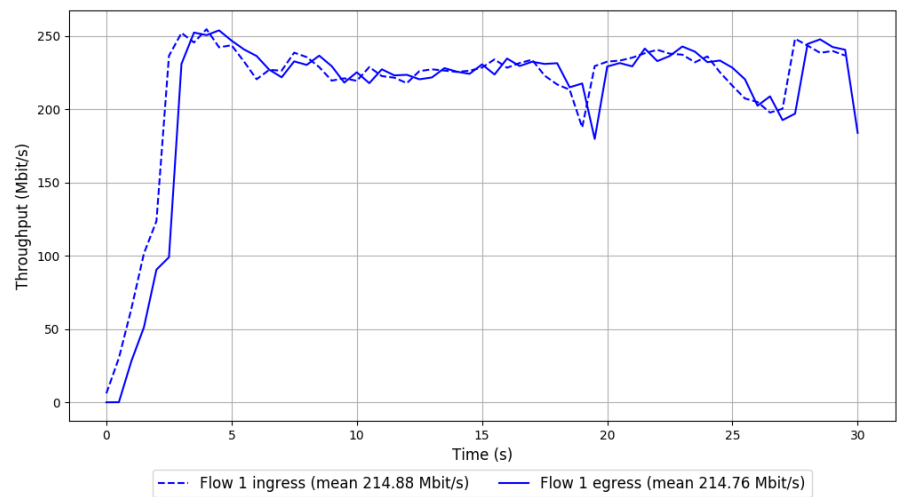
-- Flow 1:

Average throughput: 214.76 Mbit/s

95th percentile per-packet one-way delay: 112.006 ms

Loss rate: 0.80%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-06-30 01:11:48

End at: 2018-06-30 01:12:18

Local clock offset: 1.26 ms

Remote clock offset: 0.486 ms

Below is generated by plot.py at 2018-06-30 04:00:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 222.97 Mbit/s

95th percentile per-packet one-way delay: 112.207 ms

Loss rate: 0.76%

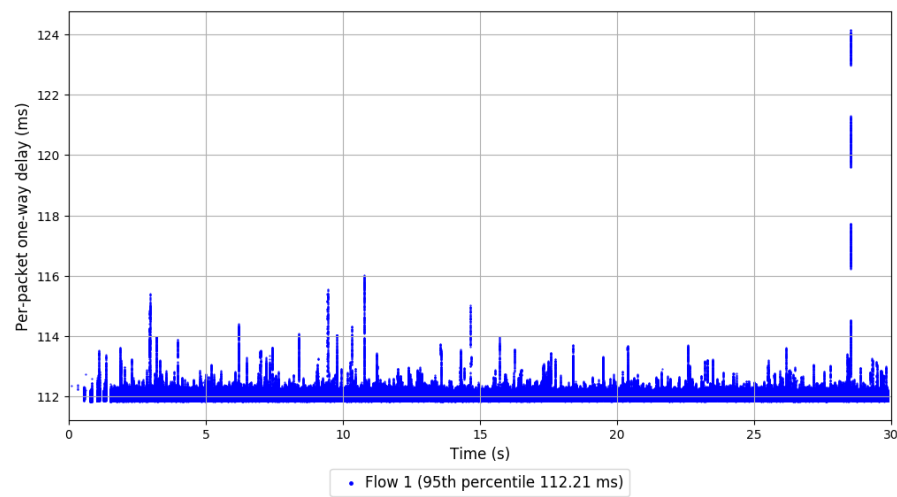
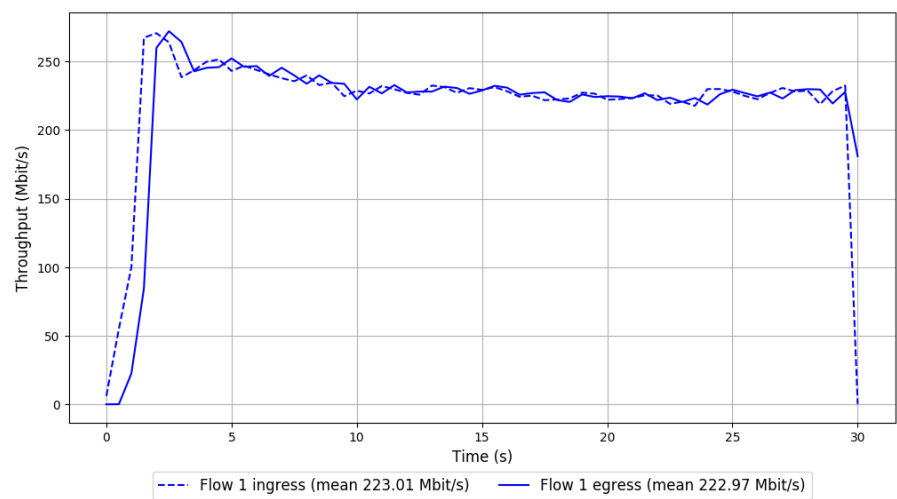
-- Flow 1:

Average throughput: 222.97 Mbit/s

95th percentile per-packet one-way delay: 112.207 ms

Loss rate: 0.76%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-06-30 01:34:20

End at: 2018-06-30 01:34:50

Local clock offset: -0.286 ms

Remote clock offset: 0.034 ms

Below is generated by plot.py at 2018-06-30 04:03:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 229.62 Mbit/s

95th percentile per-packet one-way delay: 110.953 ms

Loss rate: 0.80%

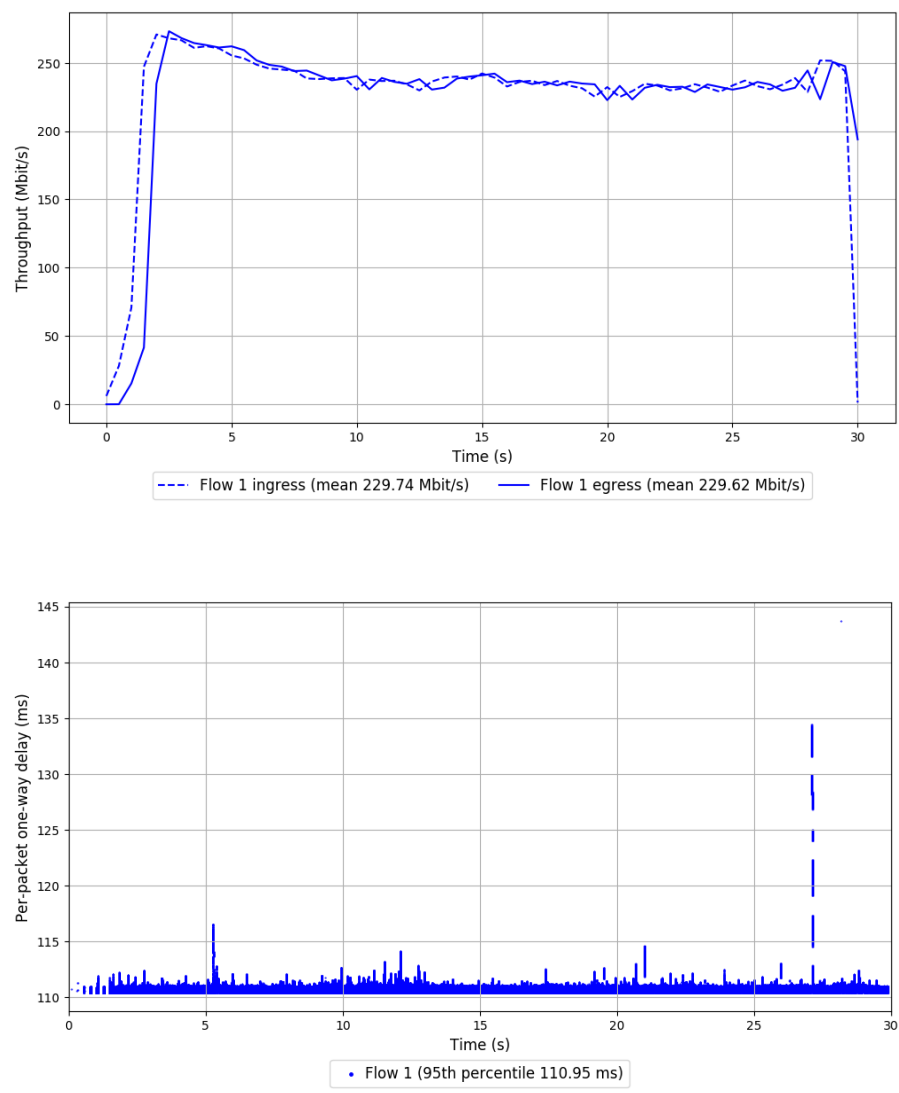
-- Flow 1:

Average throughput: 229.62 Mbit/s

95th percentile per-packet one-way delay: 110.953 ms

Loss rate: 0.80%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-06-30 01:57:02

End at: 2018-06-30 01:57:32

Local clock offset: -0.315 ms

Remote clock offset: 0.019 ms

Below is generated by plot.py at 2018-06-30 04:03:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 216.29 Mbit/s

95th percentile per-packet one-way delay: 111.251 ms

Loss rate: 0.75%

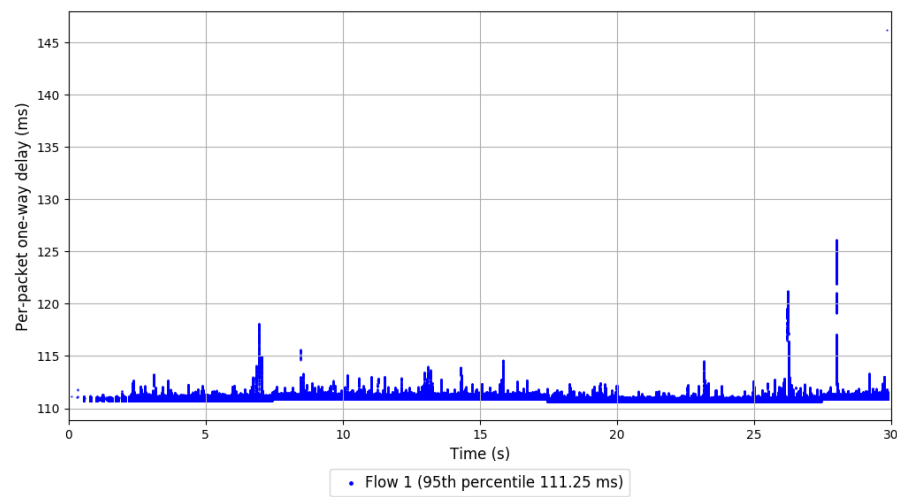
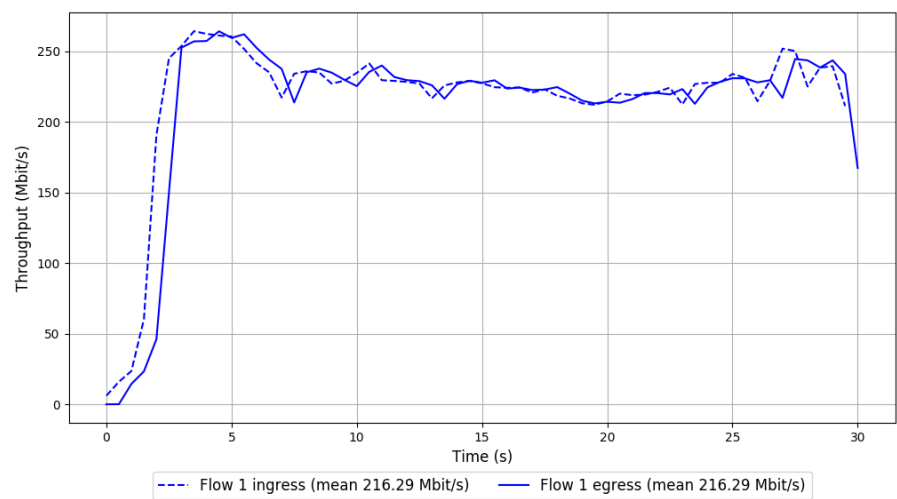
-- Flow 1:

Average throughput: 216.29 Mbit/s

95th percentile per-packet one-way delay: 111.251 ms

Loss rate: 0.75%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-06-30 02:19:21

End at: 2018-06-30 02:19:51

Local clock offset: 1.018 ms

Remote clock offset: 0.408 ms

Below is generated by plot.py at 2018-06-30 04:03:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 224.84 Mbit/s

95th percentile per-packet one-way delay: 112.246 ms

Loss rate: 0.77%

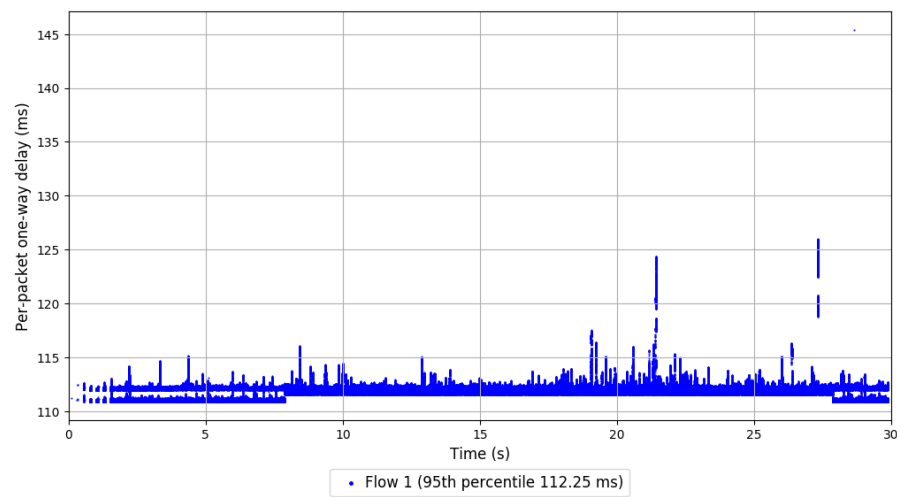
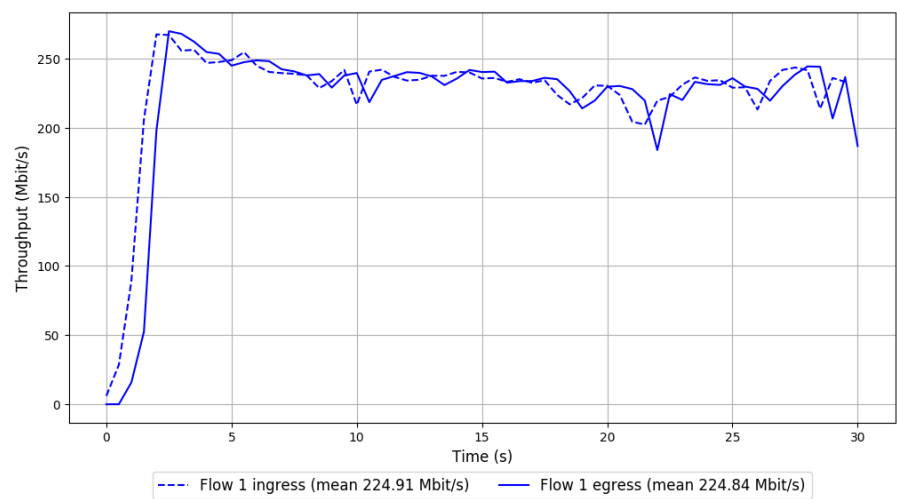
-- Flow 1:

Average throughput: 224.84 Mbit/s

95th percentile per-packet one-way delay: 112.246 ms

Loss rate: 0.77%

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



Run 10: Statistics of TaoVA-100x

Start at: 2018-06-30 02:41:32

End at: 2018-06-30 02:42:02

Local clock offset: -0.104 ms

Remote clock offset: -0.026 ms

Below is generated by plot.py at 2018-06-30 04:03:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 220.18 Mbit/s

95th percentile per-packet one-way delay: 111.470 ms

Loss rate: 0.76%

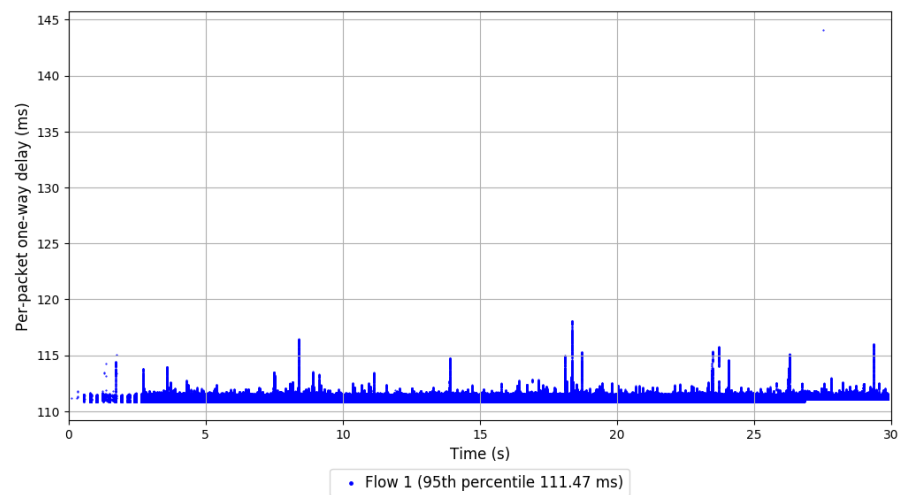
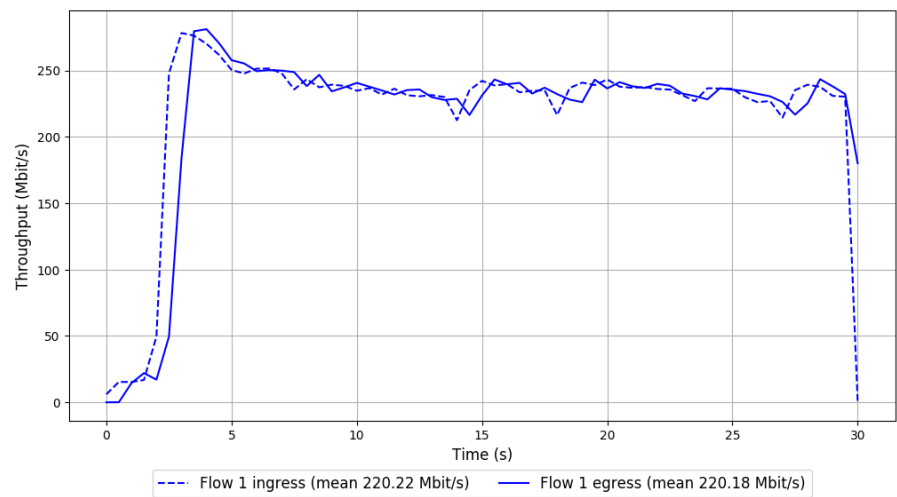
-- Flow 1:

Average throughput: 220.18 Mbit/s

95th percentile per-packet one-way delay: 111.470 ms

Loss rate: 0.76%

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



Run 1: Statistics of TCP Vegas

Start at: 2018-06-29 23:17:17

End at: 2018-06-29 23:17:47

Local clock offset: -0.11 ms

Remote clock offset: 0.018 ms

Below is generated by plot.py at 2018-06-30 04:03:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 35.01 Mbit/s

95th percentile per-packet one-way delay: 112.934 ms

Loss rate: 0.78%

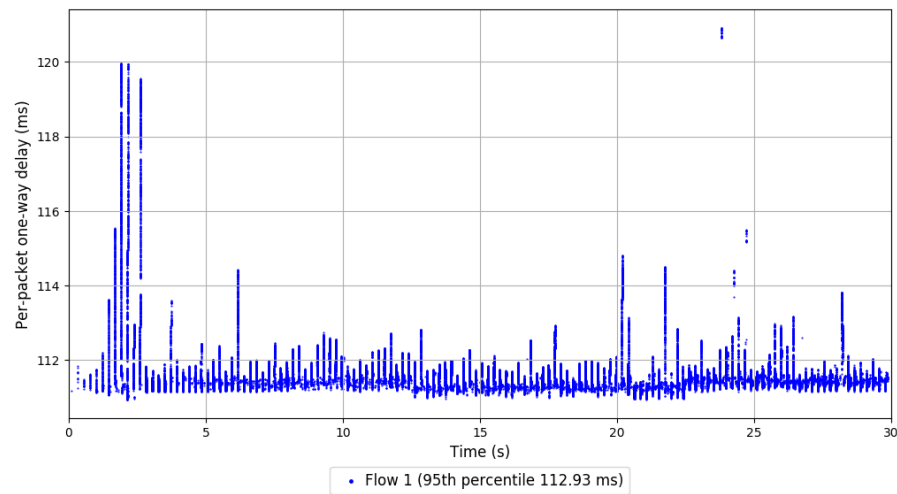
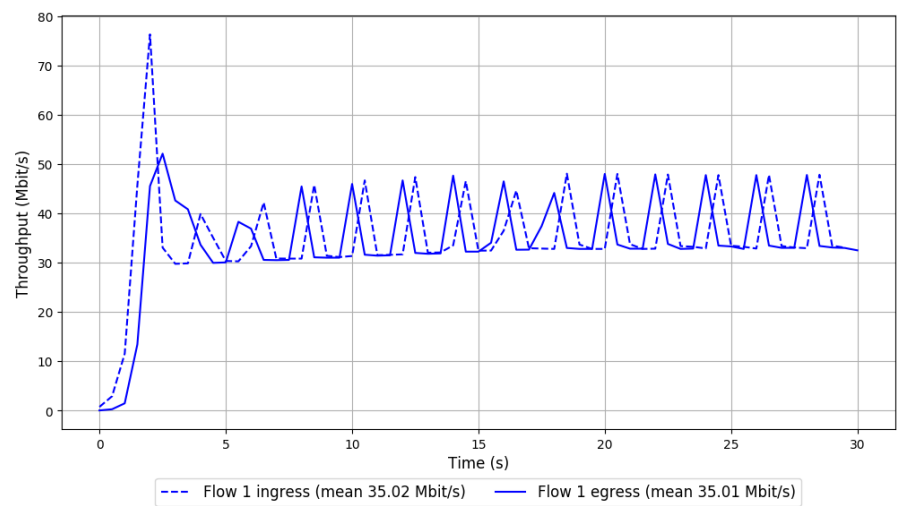
-- Flow 1:

Average throughput: 35.01 Mbit/s

95th percentile per-packet one-way delay: 112.934 ms

Loss rate: 0.78%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-06-29 23:39:46

End at: 2018-06-29 23:40:16

Local clock offset: -0.038 ms

Remote clock offset: 0.047 ms

Below is generated by plot.py at 2018-06-30 04:03:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 37.60 Mbit/s

95th percentile per-packet one-way delay: 112.423 ms

Loss rate: 0.74%

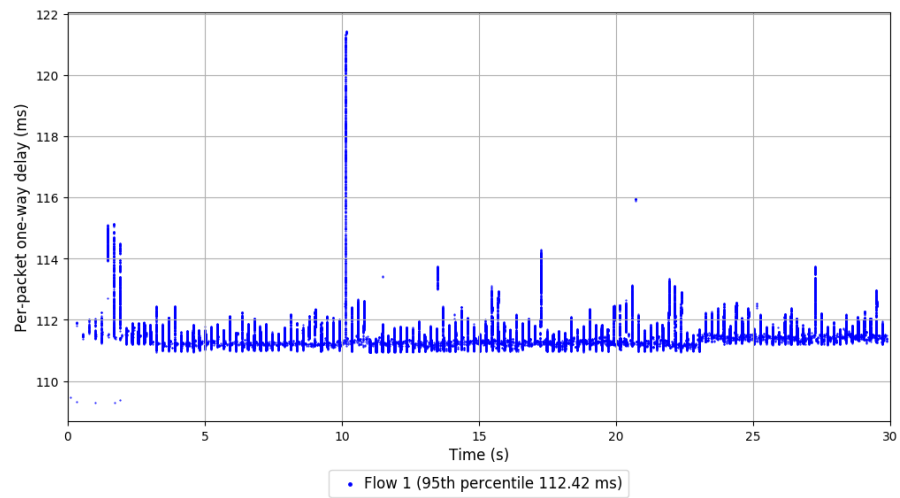
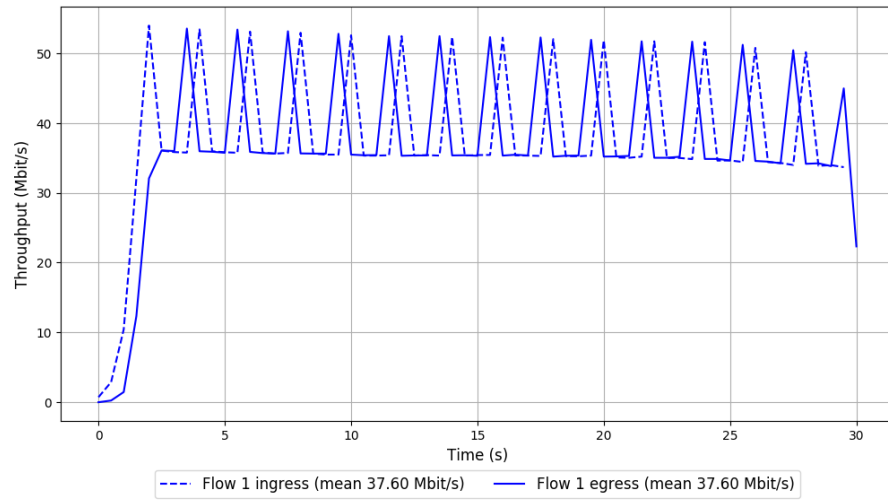
-- Flow 1:

Average throughput: 37.60 Mbit/s

95th percentile per-packet one-way delay: 112.423 ms

Loss rate: 0.74%

Run 2: Report of TCP Vegas — Data Link

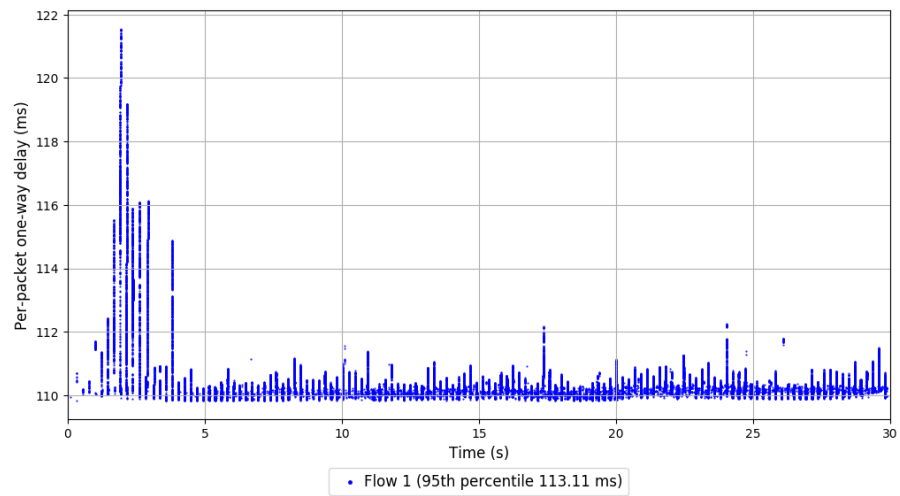
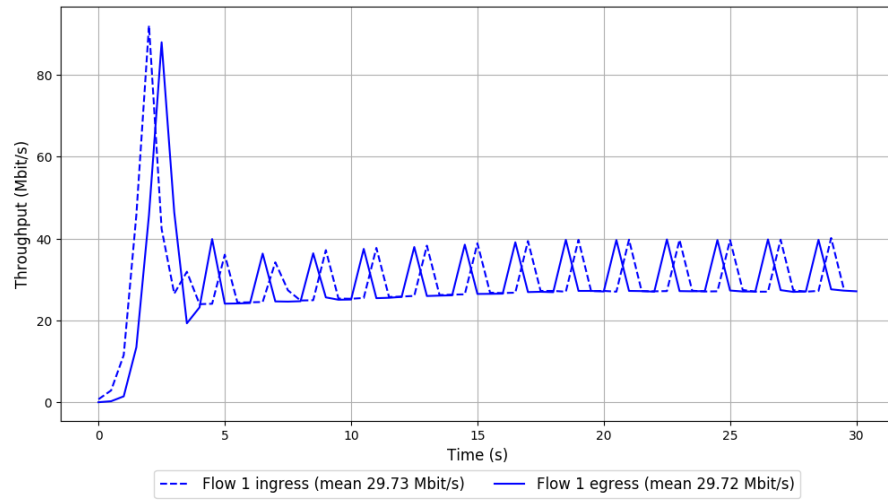


Run 3: Statistics of TCP Vegas

Start at: 2018-06-30 00:02:09
End at: 2018-06-30 00:02:39
Local clock offset: -1.481 ms
Remote clock offset: -0.295 ms

Below is generated by plot.py at 2018-06-30 04:03:32
Datalink statistics
-- Total of 1 flow:
Average throughput: 29.72 Mbit/s
95th percentile per-packet one-way delay: 113.111 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 29.72 Mbit/s
95th percentile per-packet one-way delay: 113.111 ms
Loss rate: 0.77%

Run 3: Report of TCP Vegas — Data Link

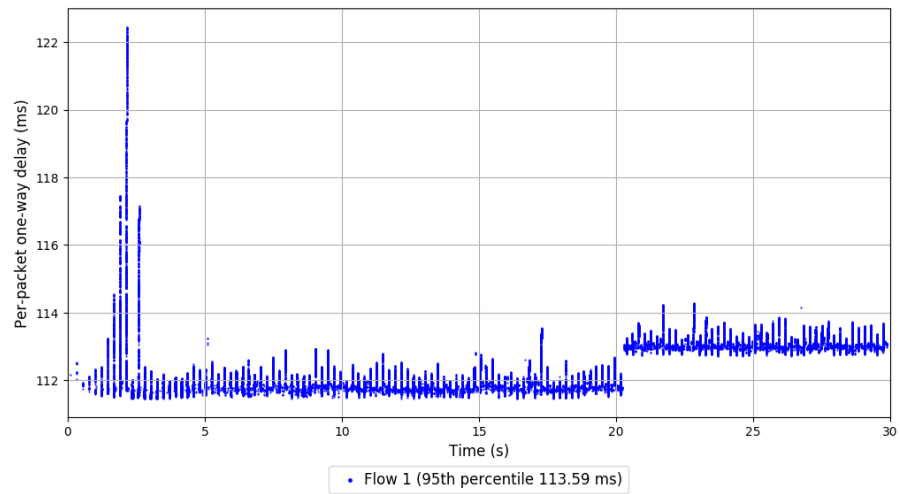
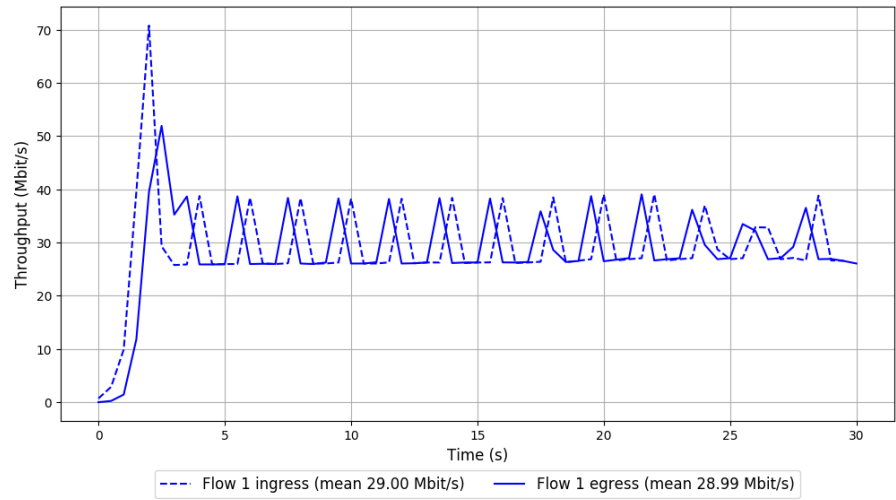


Run 4: Statistics of TCP Vegas

Start at: 2018-06-30 00:24:09
End at: 2018-06-30 00:24:39
Local clock offset: 0.204 ms
Remote clock offset: -0.336 ms

Below is generated by plot.py at 2018-06-30 04:03:32
Datalink statistics
-- Total of 1 flow:
Average throughput: 28.99 Mbit/s
95th percentile per-packet one-way delay: 113.587 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 28.99 Mbit/s
95th percentile per-packet one-way delay: 113.587 ms
Loss rate: 0.75%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-06-30 00:46:11

End at: 2018-06-30 00:46:41

Local clock offset: 1.251 ms

Remote clock offset: 0.105 ms

Below is generated by plot.py at 2018-06-30 04:03:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 41.35 Mbit/s

95th percentile per-packet one-way delay: 115.574 ms

Loss rate: 0.73%

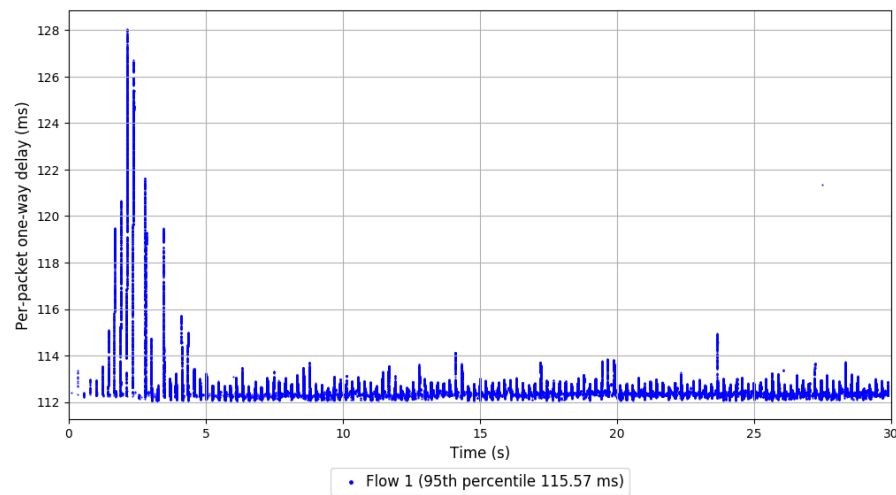
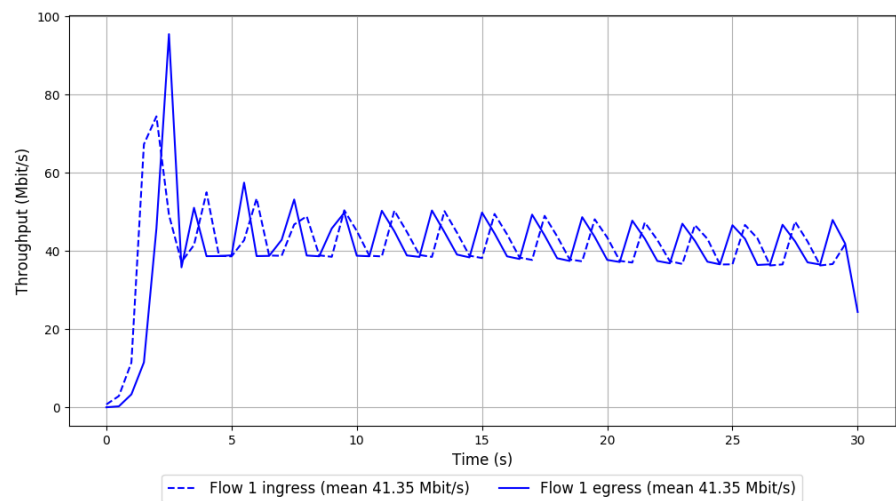
-- Flow 1:

Average throughput: 41.35 Mbit/s

95th percentile per-packet one-way delay: 115.574 ms

Loss rate: 0.73%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-06-30 01:08:23

End at: 2018-06-30 01:08:53

Local clock offset: 1.264 ms

Remote clock offset: 0.104 ms

Below is generated by plot.py at 2018-06-30 04:03:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 44.28 Mbit/s

95th percentile per-packet one-way delay: 114.199 ms

Loss rate: 0.83%

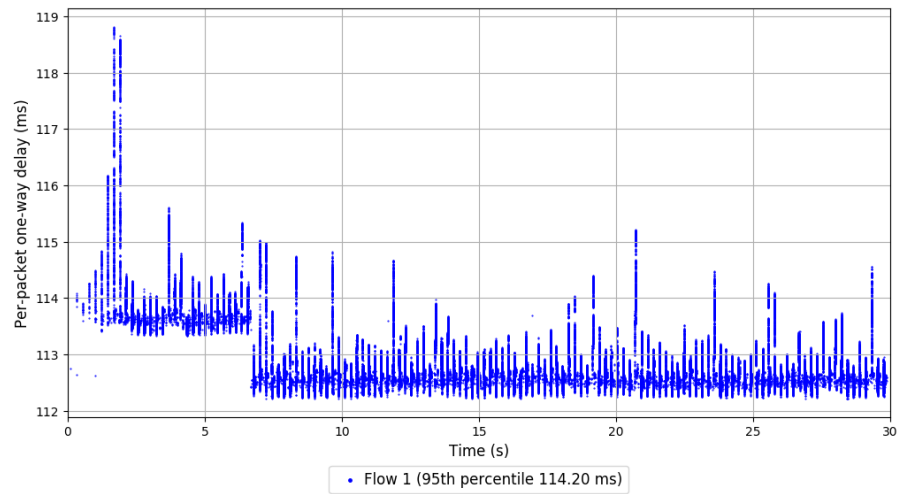
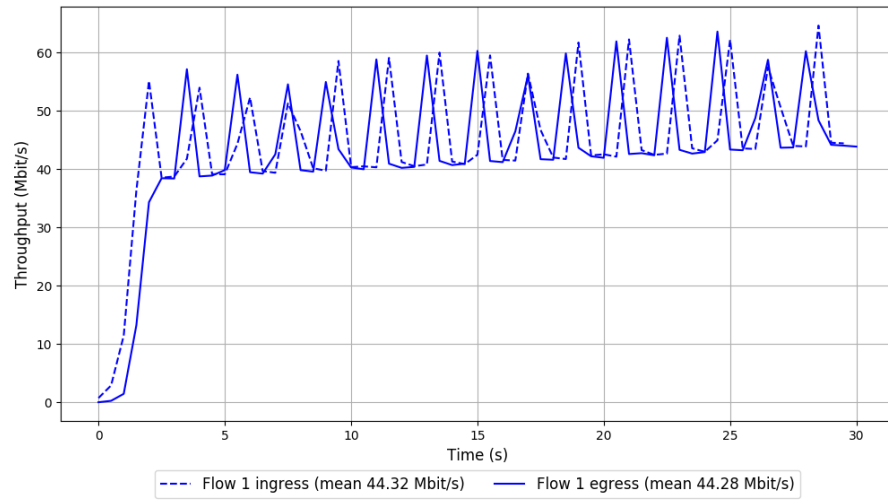
-- Flow 1:

Average throughput: 44.28 Mbit/s

95th percentile per-packet one-way delay: 114.199 ms

Loss rate: 0.83%

Run 6: Report of TCP Vegas — Data Link

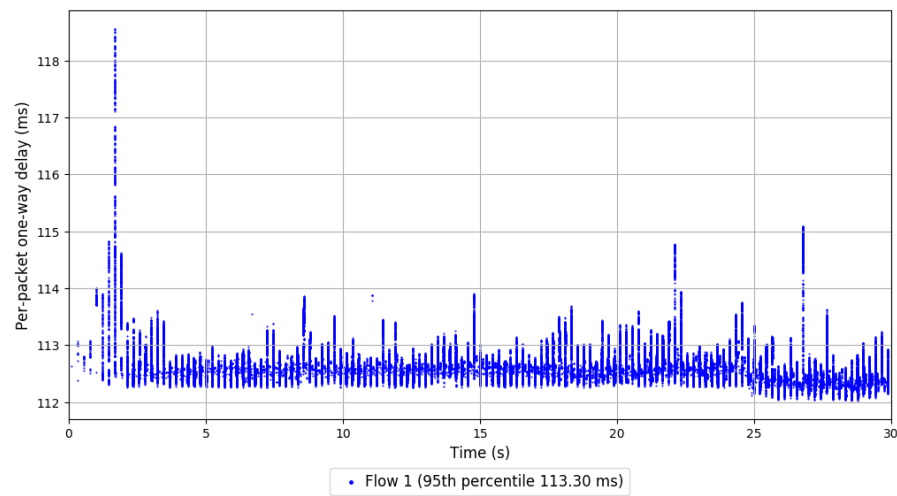
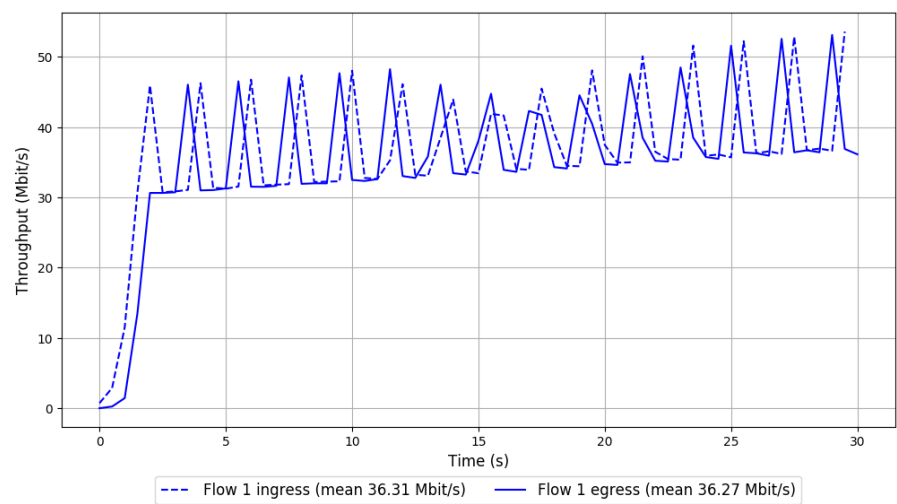


Run 7: Statistics of TCP Vegas

Start at: 2018-06-30 01:30:54
End at: 2018-06-30 01:31:24
Local clock offset: 1.218 ms
Remote clock offset: -0.012 ms

Below is generated by plot.py at 2018-06-30 04:03:32
Datalink statistics
-- Total of 1 flow:
Average throughput: 36.27 Mbit/s
95th percentile per-packet one-way delay: 113.304 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 36.27 Mbit/s
95th percentile per-packet one-way delay: 113.304 ms
Loss rate: 0.84%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-06-30 01:53:36

End at: 2018-06-30 01:54:06

Local clock offset: -0.038 ms

Remote clock offset: 0.05 ms

Below is generated by plot.py at 2018-06-30 04:03:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 54.69 Mbit/s

95th percentile per-packet one-way delay: 112.988 ms

Loss rate: 0.81%

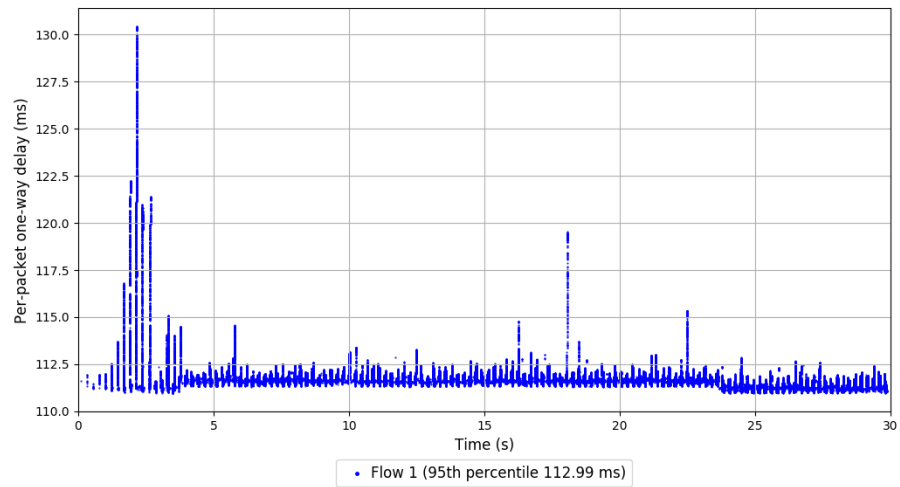
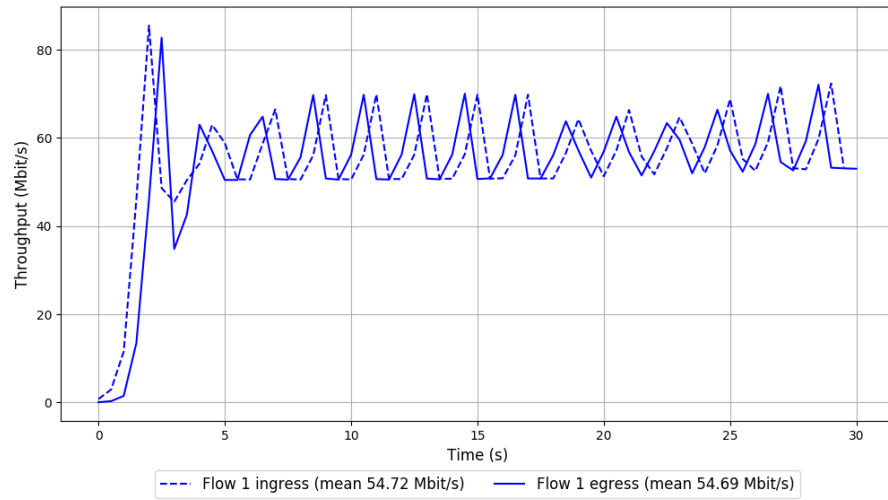
-- Flow 1:

Average throughput: 54.69 Mbit/s

95th percentile per-packet one-way delay: 112.988 ms

Loss rate: 0.81%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-06-30 02:15:56

End at: 2018-06-30 02:16:26

Local clock offset: 0.078 ms

Remote clock offset: 0.007 ms

Below is generated by plot.py at 2018-06-30 04:03:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 40.27 Mbit/s

95th percentile per-packet one-way delay: 112.882 ms

Loss rate: 0.79%

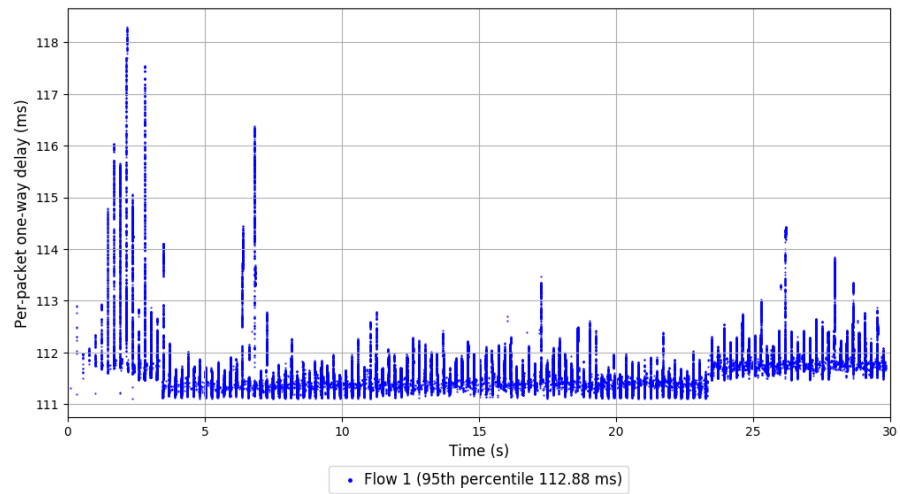
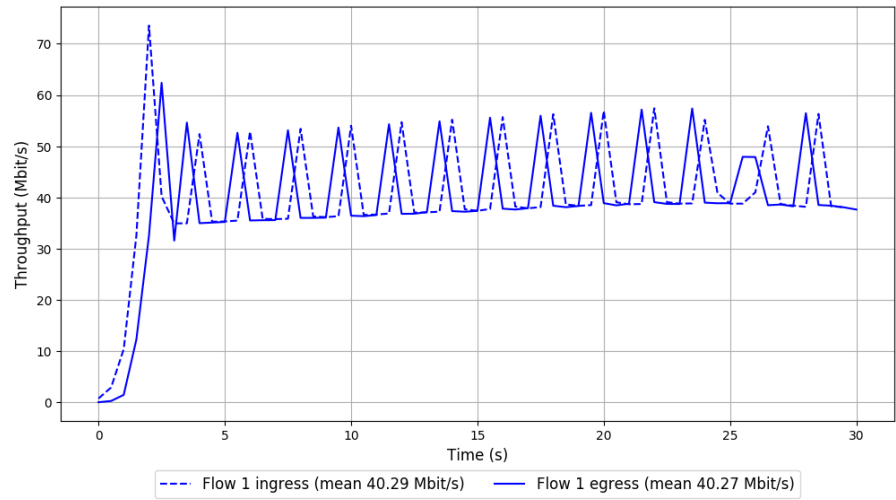
-- Flow 1:

Average throughput: 40.27 Mbit/s

95th percentile per-packet one-way delay: 112.882 ms

Loss rate: 0.79%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-06-30 02:38:07

End at: 2018-06-30 02:38:37

Local clock offset: -0.068 ms

Remote clock offset: 0.006 ms

Below is generated by plot.py at 2018-06-30 04:03:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 30.55 Mbit/s

95th percentile per-packet one-way delay: 114.489 ms

Loss rate: 0.80%

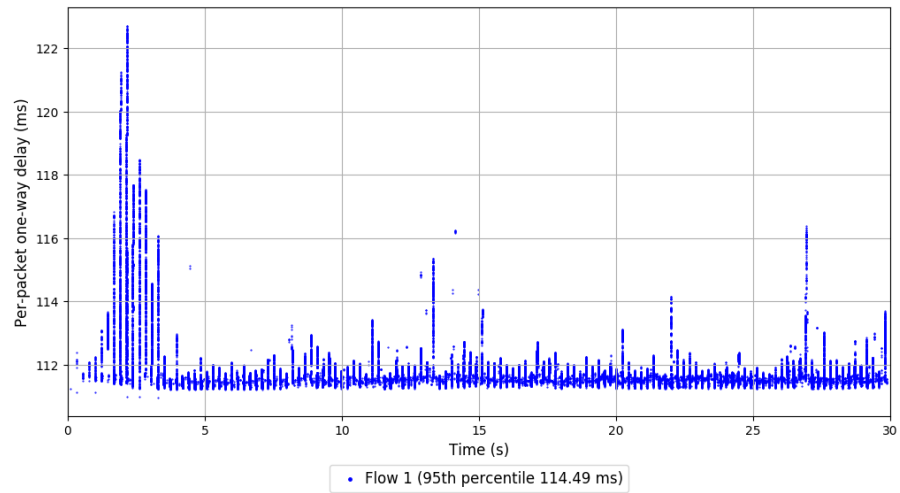
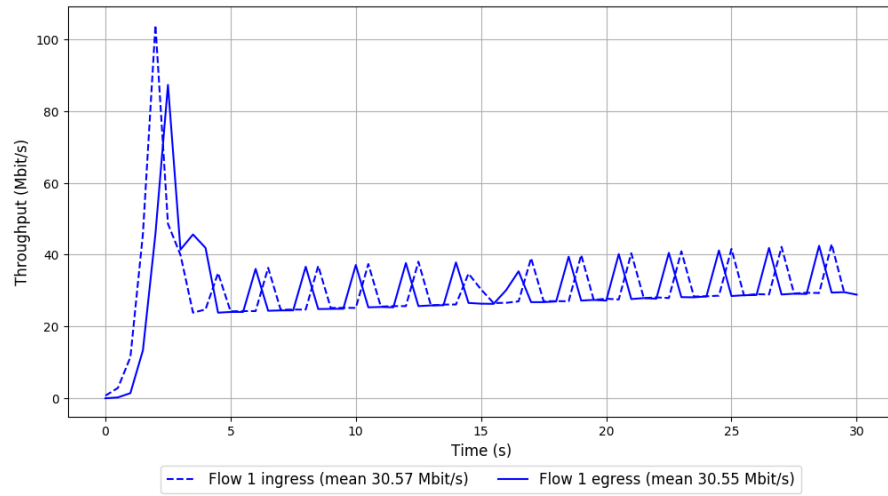
-- Flow 1:

Average throughput: 30.55 Mbit/s

95th percentile per-packet one-way delay: 114.489 ms

Loss rate: 0.80%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-06-29 23:06:30

End at: 2018-06-29 23:07:00

Local clock offset: -0.011 ms

Remote clock offset: 0.03 ms

Below is generated by plot.py at 2018-06-30 04:05:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 207.86 Mbit/s

95th percentile per-packet one-way delay: 127.971 ms

Loss rate: 1.03%

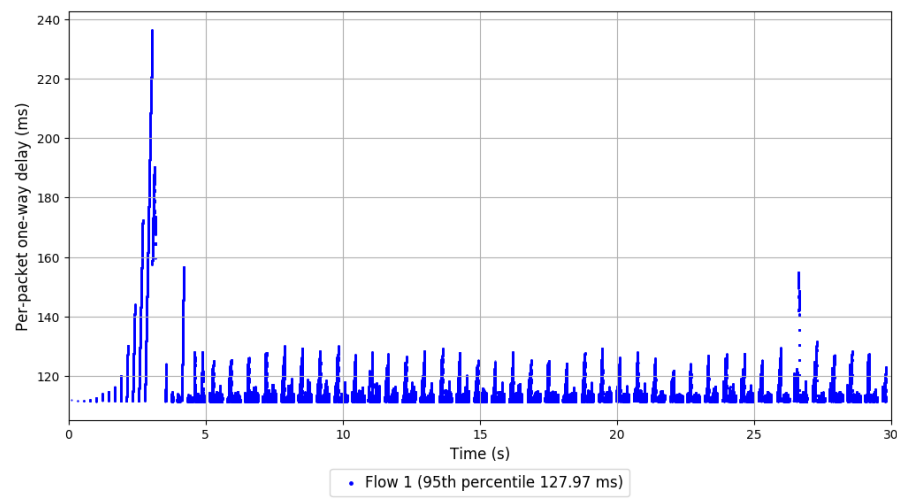
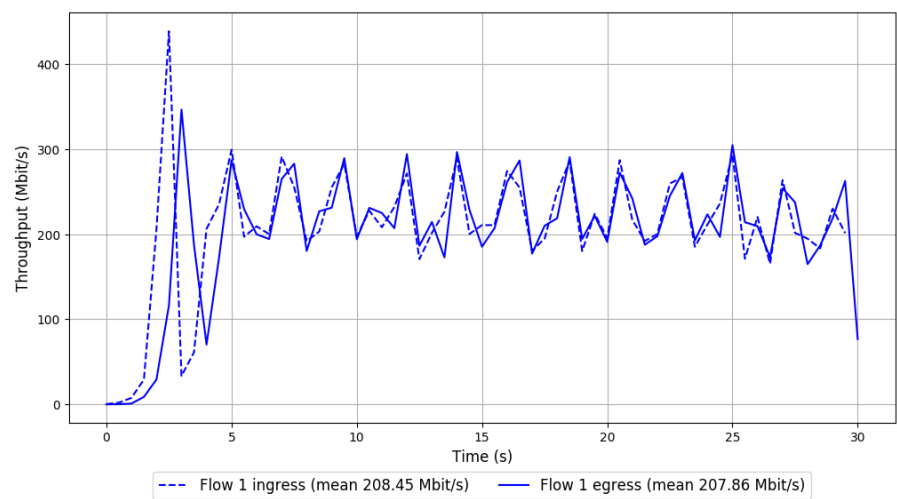
-- Flow 1:

Average throughput: 207.86 Mbit/s

95th percentile per-packet one-way delay: 127.971 ms

Loss rate: 1.03%

Run 1: Report of Verus — Data Link

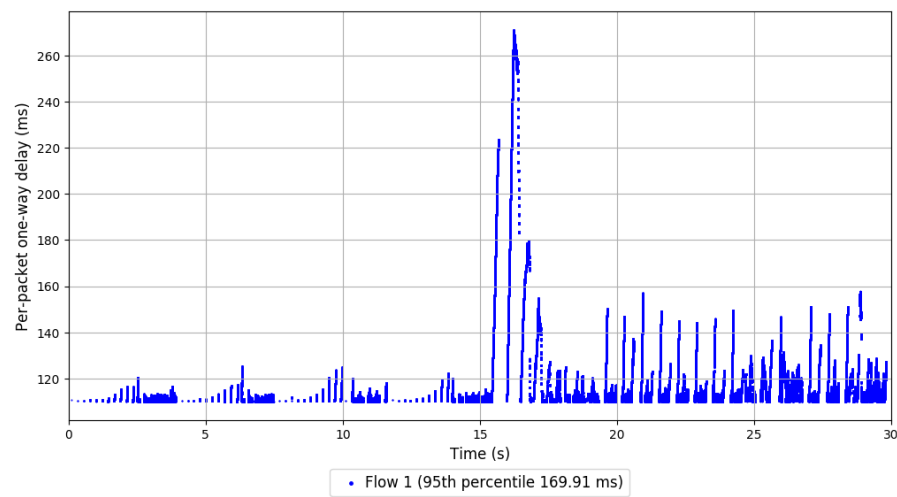
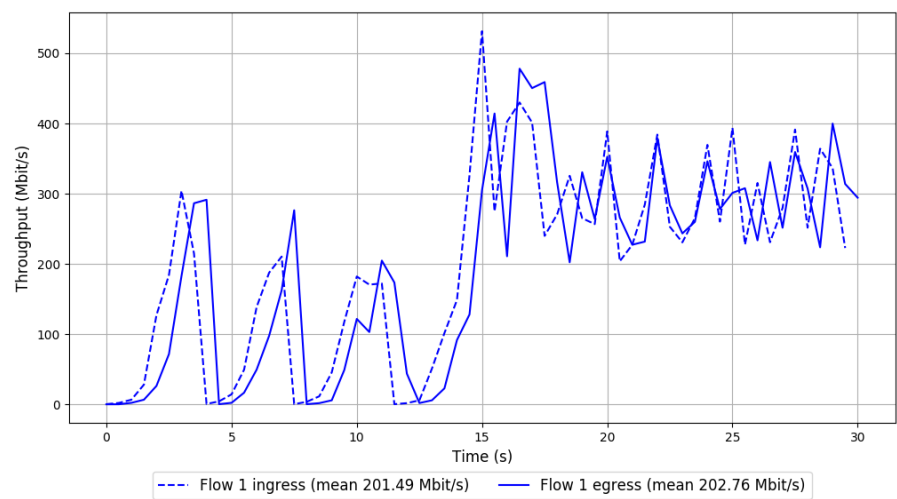


Run 2: Statistics of Verus

Start at: 2018-06-29 23:28:43
End at: 2018-06-29 23:29:13
Local clock offset: -1.398 ms
Remote clock offset: -0.312 ms

Below is generated by plot.py at 2018-06-30 04:05:12
Datalink statistics
-- Total of 1 flow:
Average throughput: 202.76 Mbit/s
95th percentile per-packet one-way delay: 169.912 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 202.76 Mbit/s
95th percentile per-packet one-way delay: 169.912 ms
Loss rate: 0.22%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-06-29 23:51:16

End at: 2018-06-29 23:51:46

Local clock offset: 0.427 ms

Remote clock offset: 0.059 ms

Below is generated by plot.py at 2018-06-30 04:05:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 212.31 Mbit/s

95th percentile per-packet one-way delay: 232.640 ms

Loss rate: 0.87%

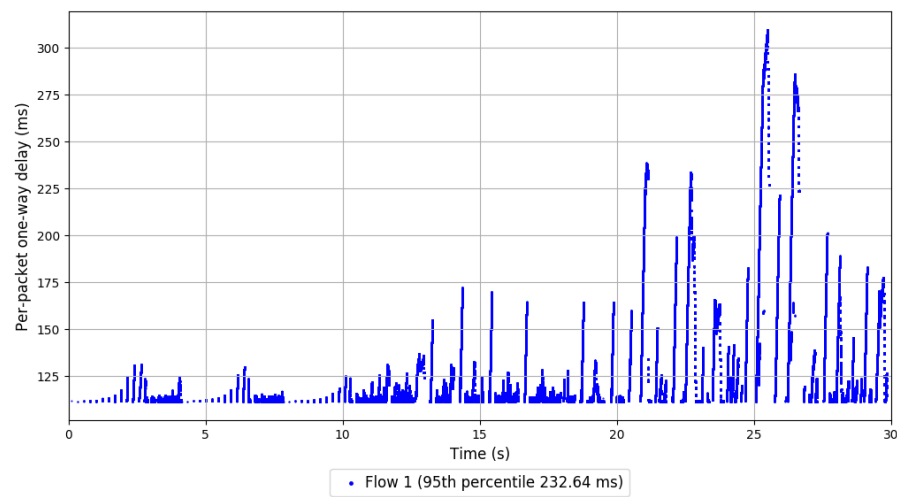
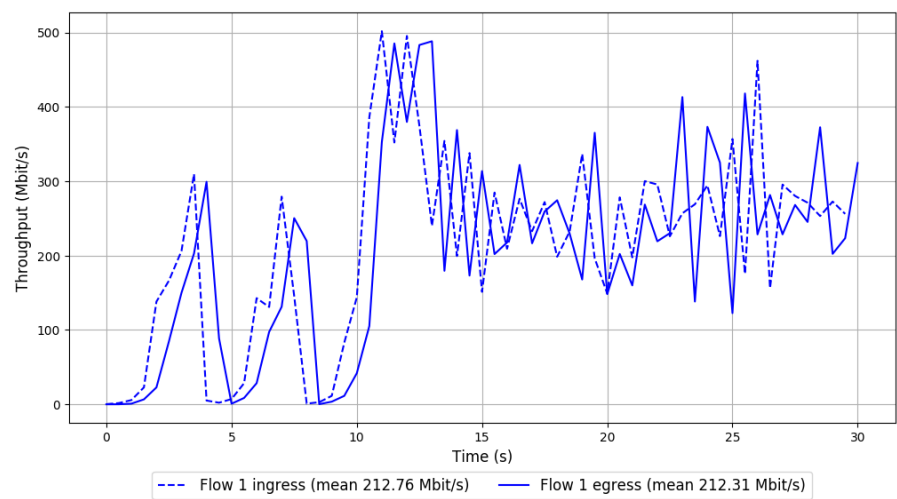
-- Flow 1:

Average throughput: 212.31 Mbit/s

95th percentile per-packet one-way delay: 232.640 ms

Loss rate: 0.87%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-06-30 00:13:15

End at: 2018-06-30 00:13:45

Local clock offset: -0.298 ms

Remote clock offset: 0.126 ms

Below is generated by plot.py at 2018-06-30 04:05:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 207.58 Mbit/s

95th percentile per-packet one-way delay: 220.209 ms

Loss rate: 1.92%

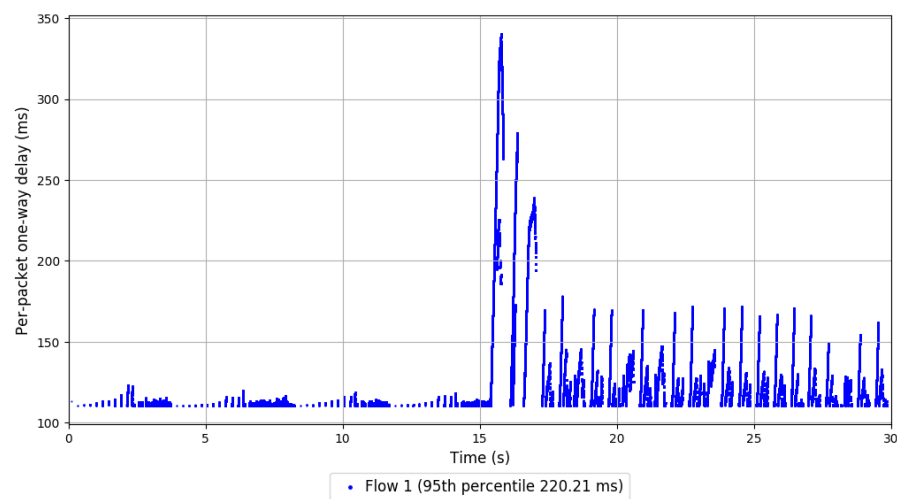
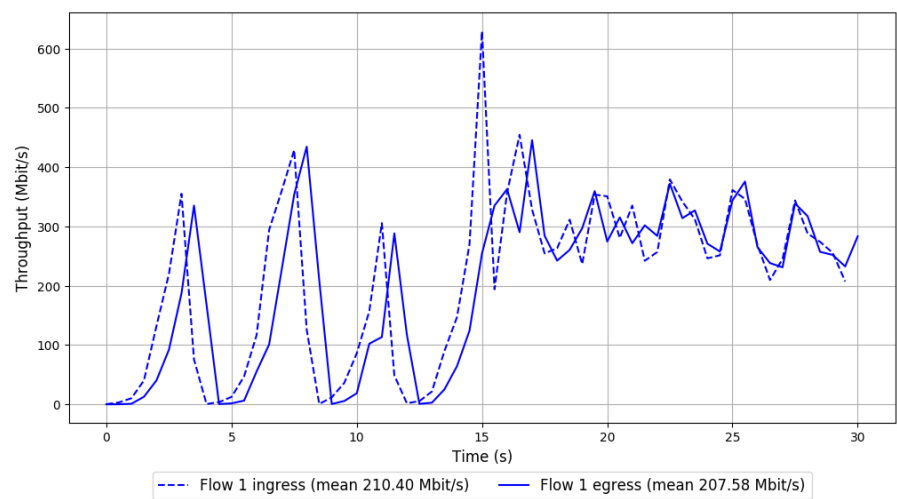
-- Flow 1:

Average throughput: 207.58 Mbit/s

95th percentile per-packet one-way delay: 220.209 ms

Loss rate: 1.92%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-06-30 00:35:11

End at: 2018-06-30 00:35:41

Local clock offset: 1.042 ms

Remote clock offset: 0.085 ms

Below is generated by plot.py at 2018-06-30 04:05:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 115.35 Mbit/s

95th percentile per-packet one-way delay: 130.197 ms

Loss rate: 0.87%

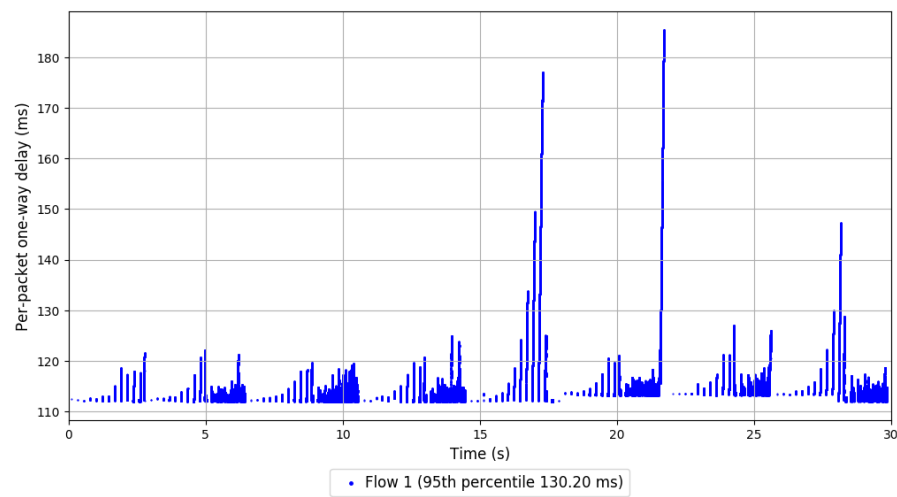
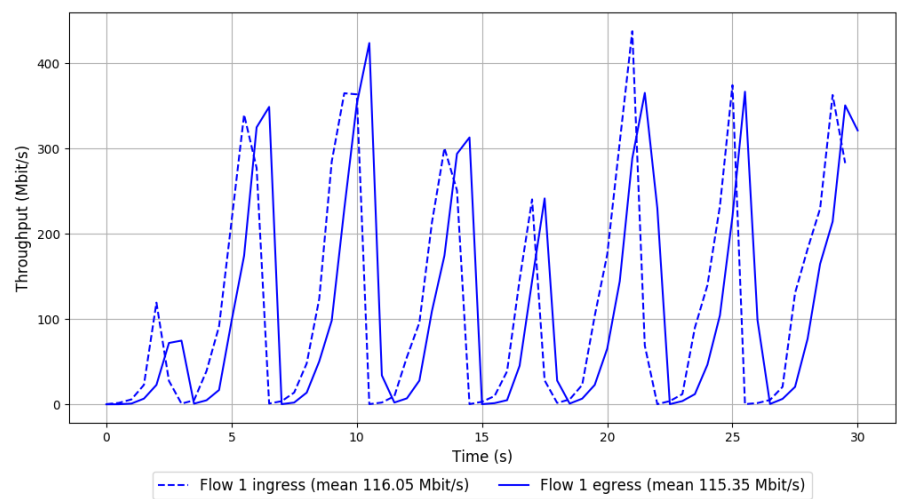
-- Flow 1:

Average throughput: 115.35 Mbit/s

95th percentile per-packet one-way delay: 130.197 ms

Loss rate: 0.87%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-06-30 00:57:39

End at: 2018-06-30 00:58:09

Local clock offset: 1.47 ms

Remote clock offset: 0.098 ms

Below is generated by plot.py at 2018-06-30 04:06:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 212.13 Mbit/s

95th percentile per-packet one-way delay: 187.917 ms

Loss rate: 1.31%

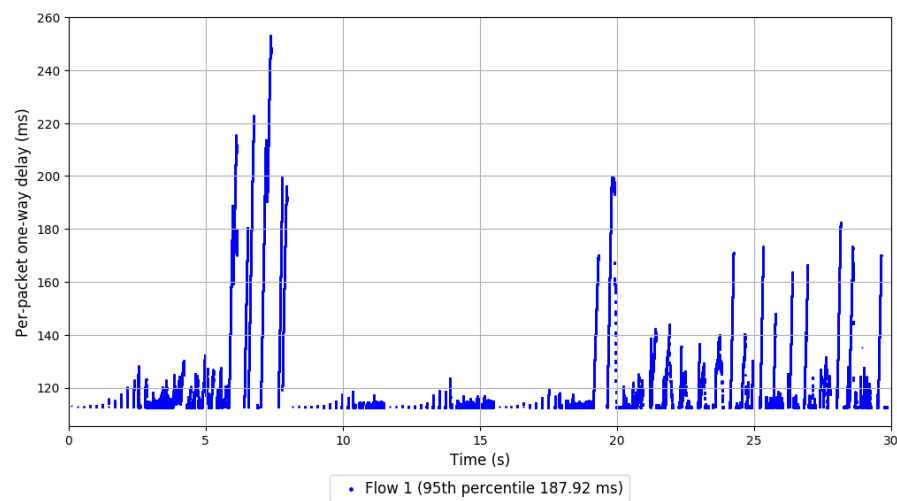
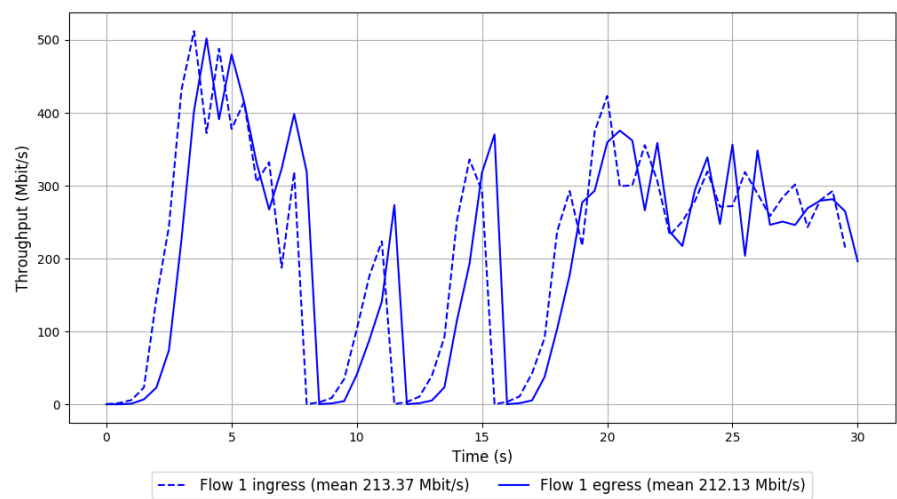
-- Flow 1:

Average throughput: 212.13 Mbit/s

95th percentile per-packet one-way delay: 187.917 ms

Loss rate: 1.31%

Run 6: Report of Verus — Data Link

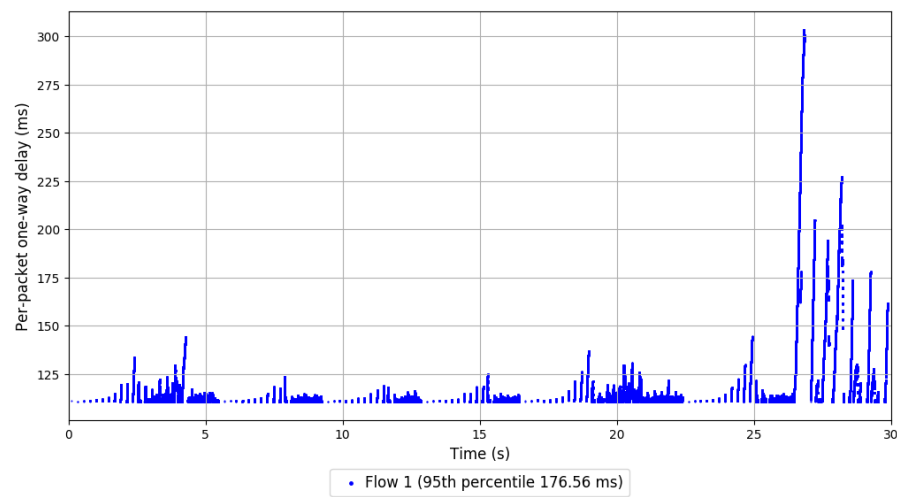
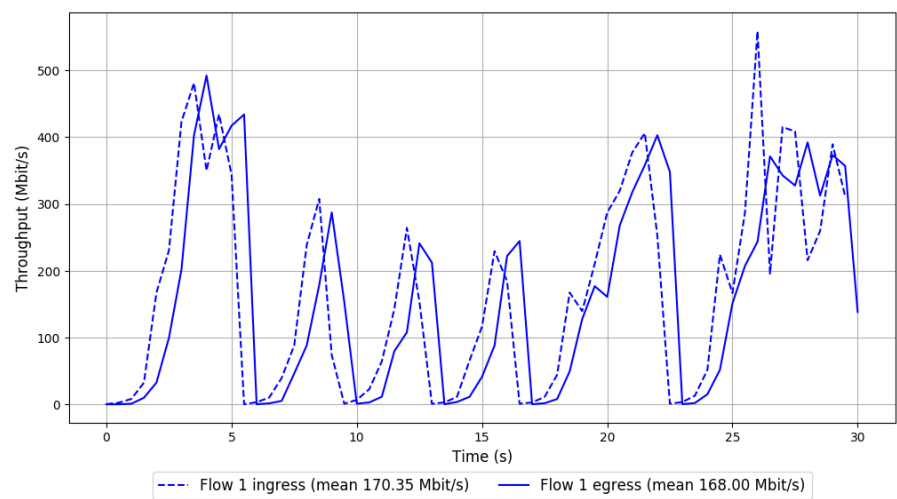


Run 7: Statistics of Verus

Start at: 2018-06-30 01:19:51
End at: 2018-06-30 01:20:22
Local clock offset: -0.056 ms
Remote clock offset: 0.439 ms

Below is generated by plot.py at 2018-06-30 04:06:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 168.00 Mbit/s
95th percentile per-packet one-way delay: 176.560 ms
Loss rate: 2.11%
-- Flow 1:
Average throughput: 168.00 Mbit/s
95th percentile per-packet one-way delay: 176.560 ms
Loss rate: 2.11%

Run 7: Report of Verus — Data Link

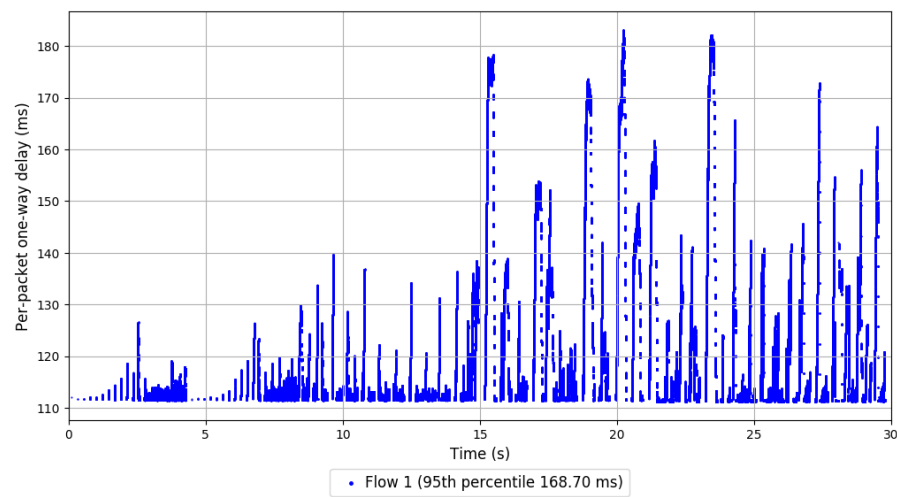
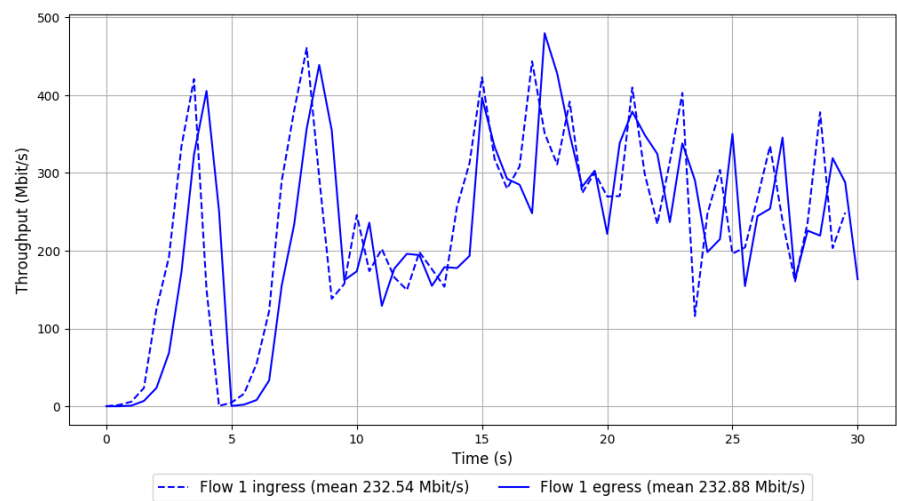


Run 8: Statistics of Verus

Start at: 2018-06-30 01:42:28
End at: 2018-06-30 01:42:58
Local clock offset: -0.04 ms
Remote clock offset: -0.423 ms

Below is generated by plot.py at 2018-06-30 04:07:30
Datalink statistics
-- Total of 1 flow:
Average throughput: 232.88 Mbit/s
95th percentile per-packet one-way delay: 168.704 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 232.88 Mbit/s
95th percentile per-packet one-way delay: 168.704 ms
Loss rate: 0.84%

Run 8: Report of Verus — Data Link

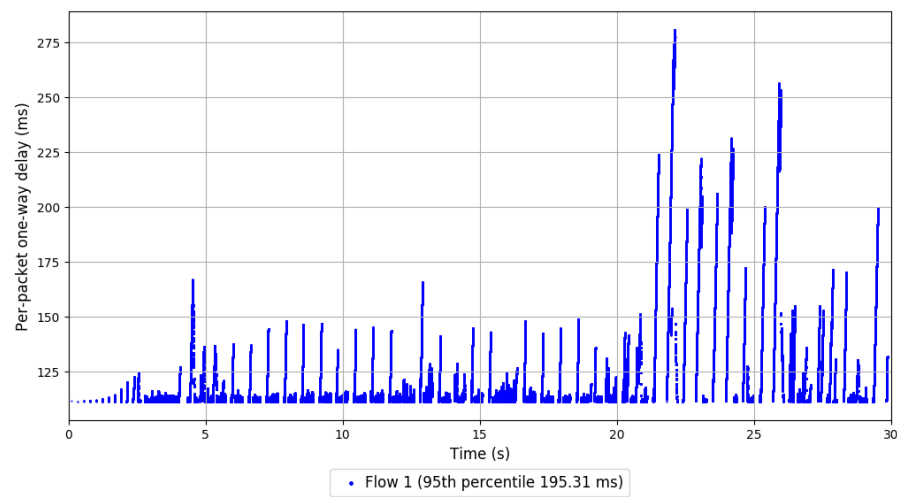
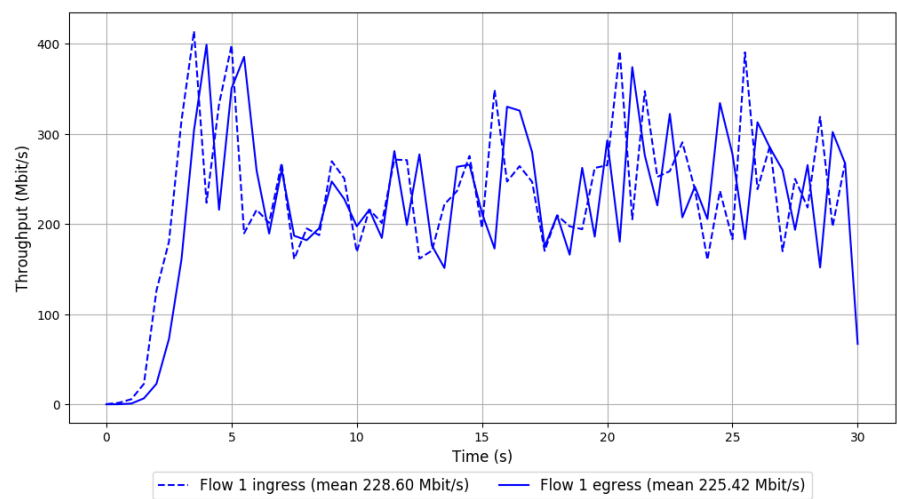


Run 9: Statistics of Verus

Start at: 2018-06-30 02:05:07
End at: 2018-06-30 02:05:37
Local clock offset: 0.134 ms
Remote clock offset: -0.002 ms

Below is generated by plot.py at 2018-06-30 04:08:18
Datalink statistics
-- Total of 1 flow:
Average throughput: 225.42 Mbit/s
95th percentile per-packet one-way delay: 195.308 ms
Loss rate: 1.77%
-- Flow 1:
Average throughput: 225.42 Mbit/s
95th percentile per-packet one-way delay: 195.308 ms
Loss rate: 1.77%

Run 9: Report of Verus — Data Link

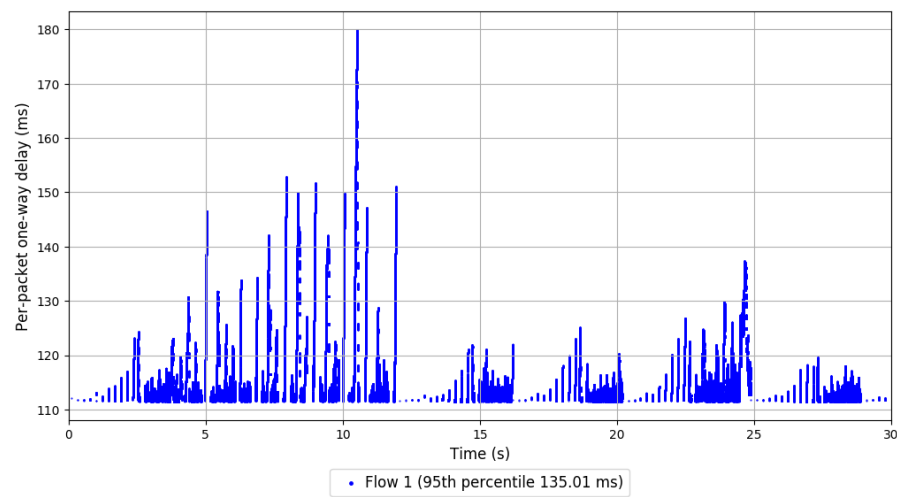
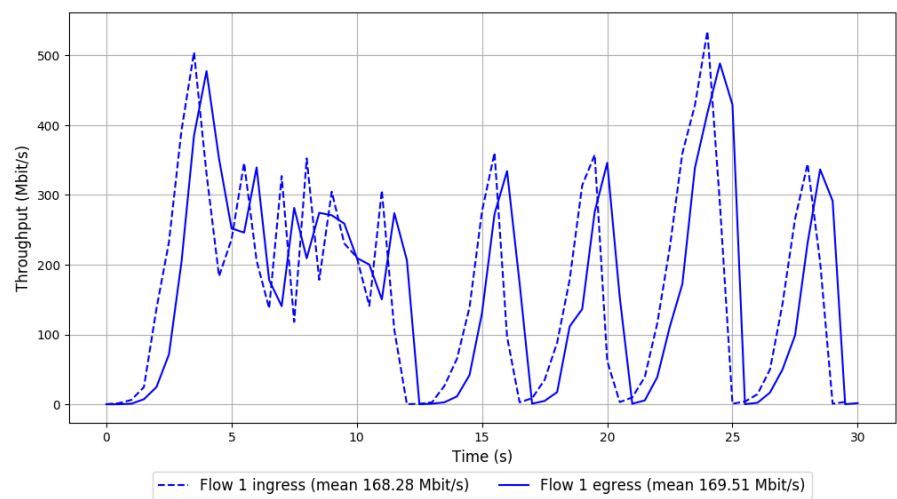


Run 10: Statistics of Verus

Start at: 2018-06-30 02:27:26
End at: 2018-06-30 02:27:56
Local clock offset: 0.037 ms
Remote clock offset: -0.038 ms

Below is generated by plot.py at 2018-06-30 04:08:18
Datalink statistics
-- Total of 1 flow:
Average throughput: 169.51 Mbit/s
95th percentile per-packet one-way delay: 135.006 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 169.51 Mbit/s
95th percentile per-packet one-way delay: 135.006 ms
Loss rate: 0.02%

Run 10: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2018-06-29 23:24:28

End at: 2018-06-29 23:24:58

Local clock offset: -0.131 ms

Remote clock offset: 0.057 ms

Below is generated by plot.py at 2018-06-30 04:11:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 366.53 Mbit/s

95th percentile per-packet one-way delay: 157.624 ms

Loss rate: 1.52%

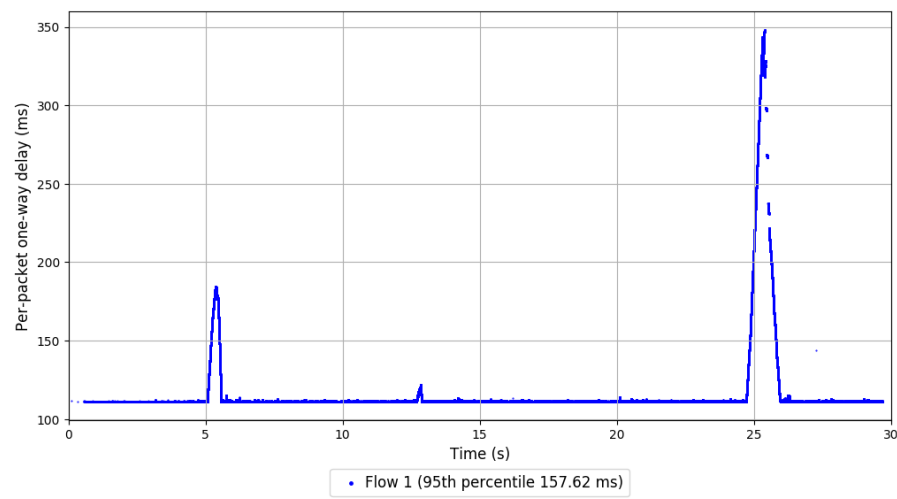
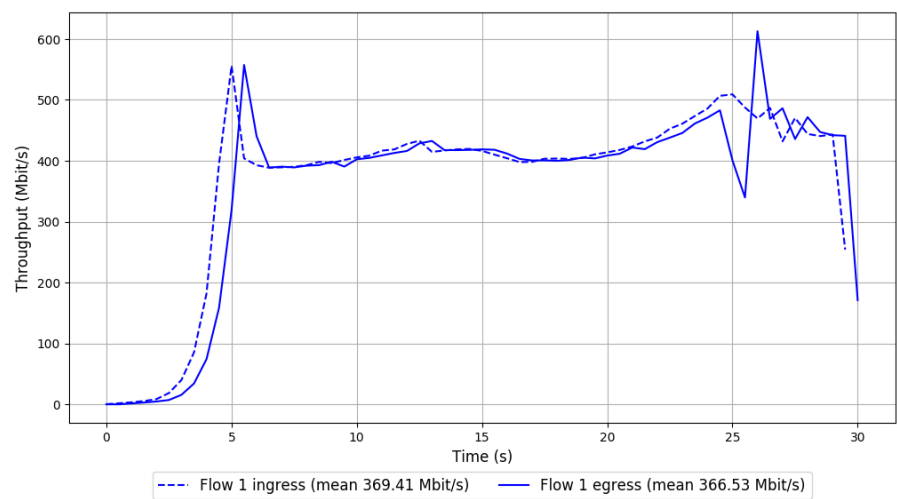
-- Flow 1:

Average throughput: 366.53 Mbit/s

95th percentile per-packet one-way delay: 157.624 ms

Loss rate: 1.52%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2018-06-29 23:47:01

End at: 2018-06-29 23:47:31

Local clock offset: 0.09 ms

Remote clock offset: 0.054 ms

Below is generated by plot.py at 2018-06-30 04:11:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 363.62 Mbit/s

95th percentile per-packet one-way delay: 111.771 ms

Loss rate: 0.83%

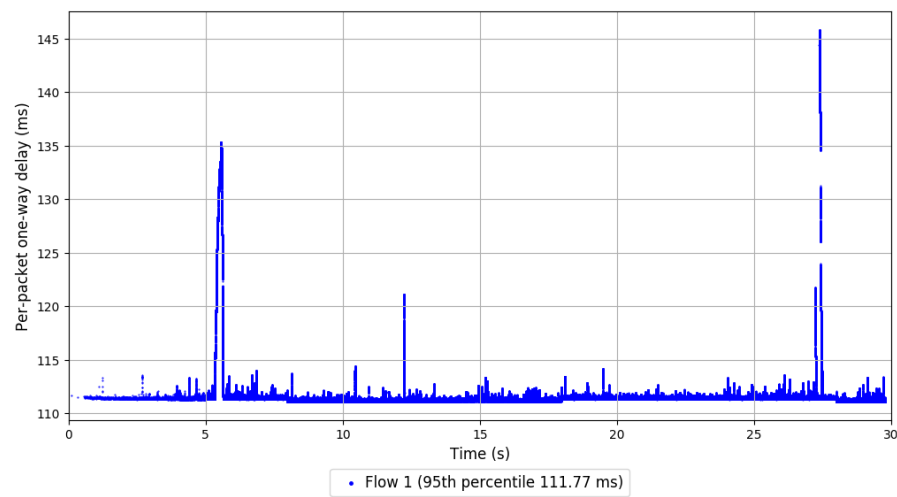
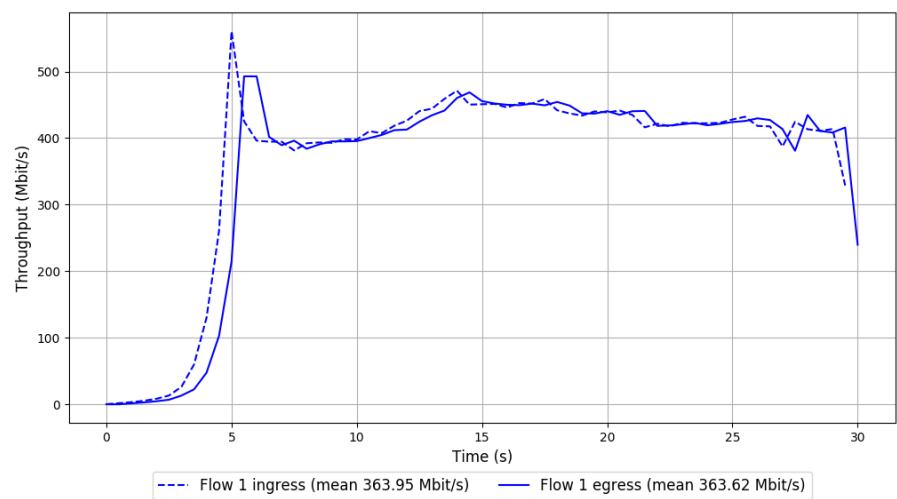
-- Flow 1:

Average throughput: 363.62 Mbit/s

95th percentile per-packet one-way delay: 111.771 ms

Loss rate: 0.83%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-06-30 00:09:04

End at: 2018-06-30 00:09:34

Local clock offset: -0.01 ms

Remote clock offset: 0.05 ms

Below is generated by plot.py at 2018-06-30 04:11:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 356.13 Mbit/s

95th percentile per-packet one-way delay: 111.716 ms

Loss rate: 0.72%

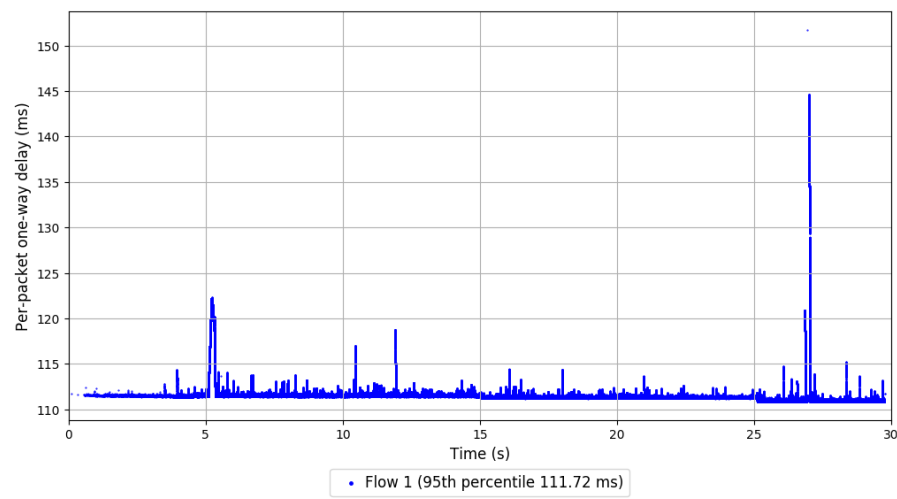
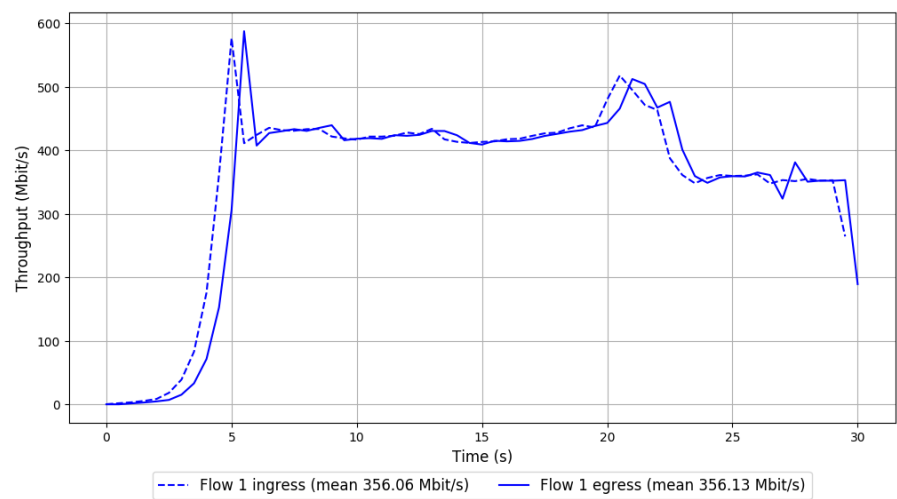
-- Flow 1:

Average throughput: 356.13 Mbit/s

95th percentile per-packet one-way delay: 111.716 ms

Loss rate: 0.72%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2018-06-30 00:31:04

End at: 2018-06-30 00:31:34

Local clock offset: -0.147 ms

Remote clock offset: 0.502 ms

Below is generated by plot.py at 2018-06-30 04:11:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 282.96 Mbit/s

95th percentile per-packet one-way delay: 112.246 ms

Loss rate: 1.11%

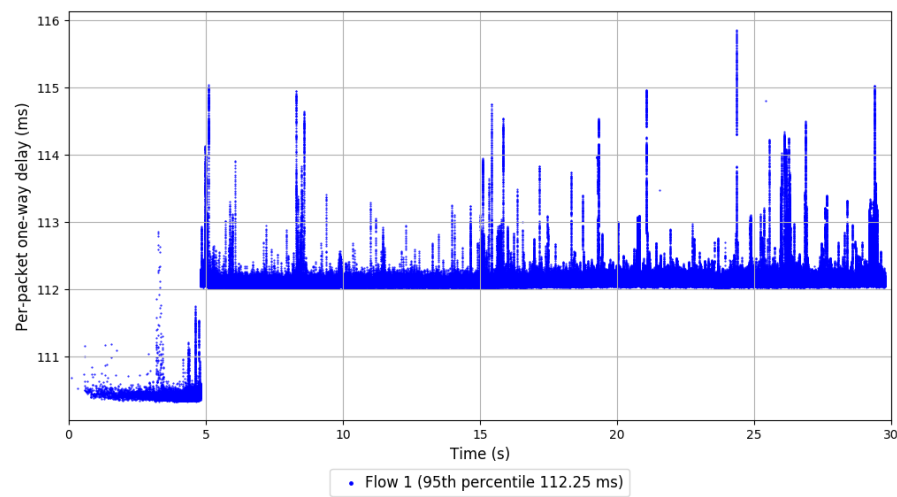
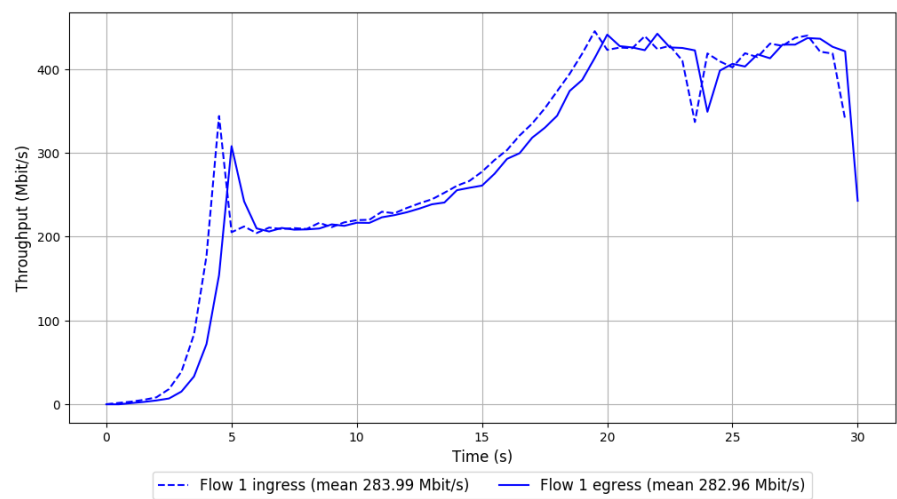
-- Flow 1:

Average throughput: 282.96 Mbit/s

95th percentile per-packet one-way delay: 112.246 ms

Loss rate: 1.11%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2018-06-30 00:53:25

End at: 2018-06-30 00:53:55

Local clock offset: -0.027 ms

Remote clock offset: 0.104 ms

Below is generated by plot.py at 2018-06-30 04:12:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 385.86 Mbit/s

95th percentile per-packet one-way delay: 117.150 ms

Loss rate: 0.80%

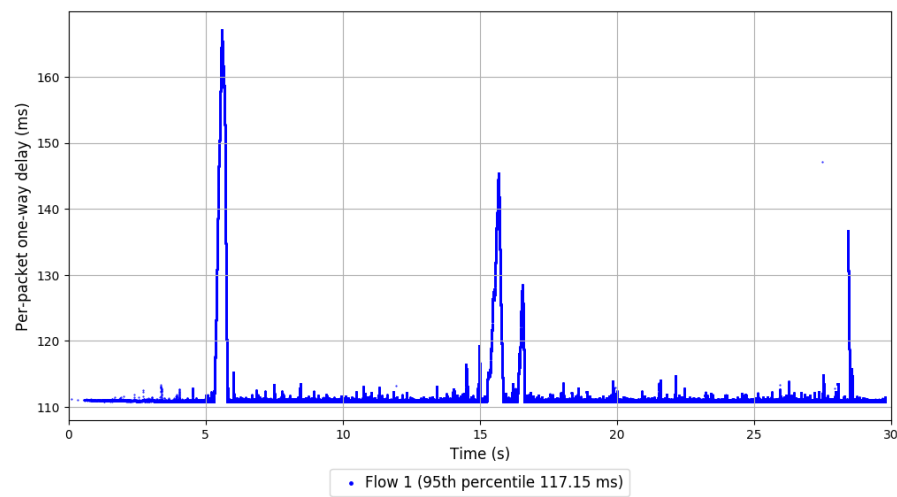
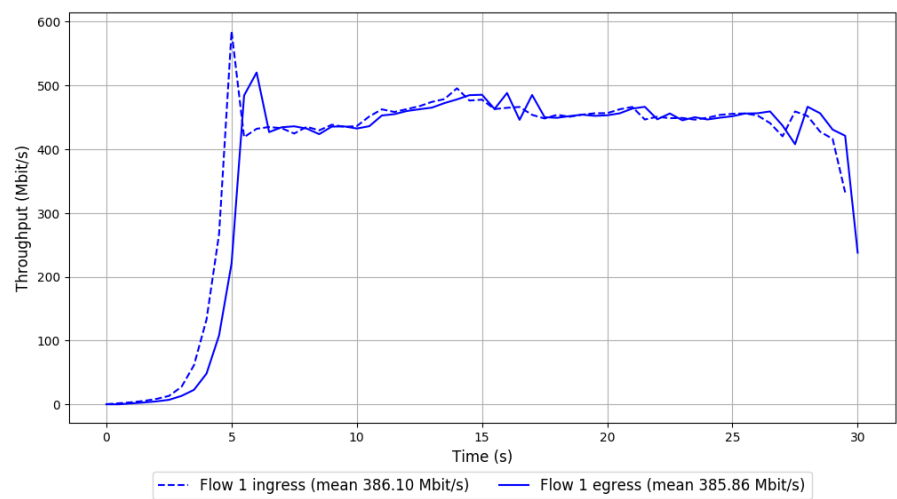
-- Flow 1:

Average throughput: 385.86 Mbit/s

95th percentile per-packet one-way delay: 117.150 ms

Loss rate: 0.80%

Run 5: Report of PCC-Vivace — Data Link



Run 6: Statistics of PCC-Vivace

Start at: 2018-06-30 01:15:38

End at: 2018-06-30 01:16:08

Local clock offset: 0.115 ms

Remote clock offset: 0.051 ms

Below is generated by plot.py at 2018-06-30 04:13:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 374.05 Mbit/s

95th percentile per-packet one-way delay: 113.574 ms

Loss rate: 0.84%

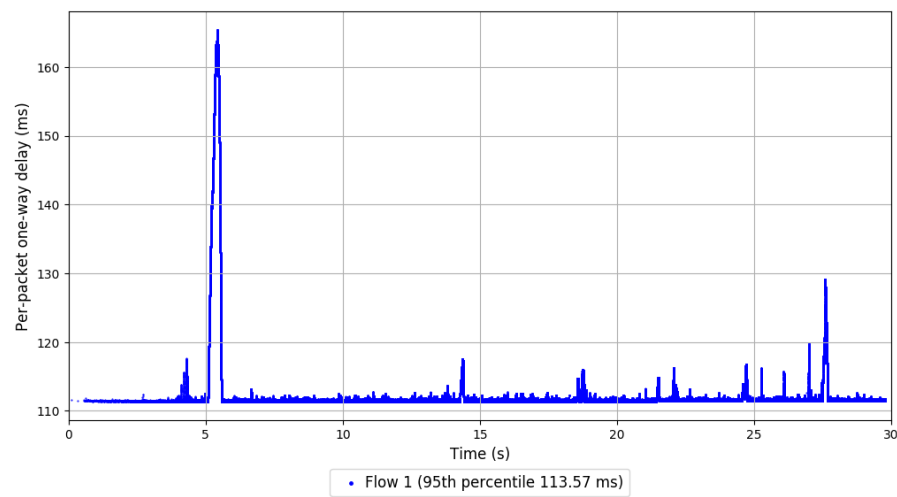
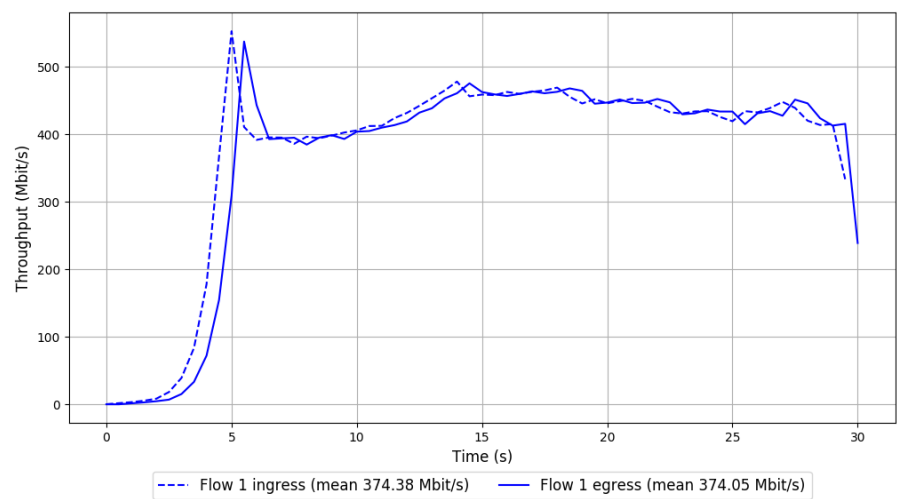
-- Flow 1:

Average throughput: 374.05 Mbit/s

95th percentile per-packet one-way delay: 113.574 ms

Loss rate: 0.84%

Run 6: Report of PCC-Vivace — Data Link



Run 7: Statistics of PCC-Vivace

Start at: 2018-06-30 01:38:10

End at: 2018-06-30 01:38:40

Local clock offset: 1.167 ms

Remote clock offset: -0.02 ms

Below is generated by plot.py at 2018-06-30 04:13:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 398.32 Mbit/s

95th percentile per-packet one-way delay: 115.554 ms

Loss rate: 1.06%

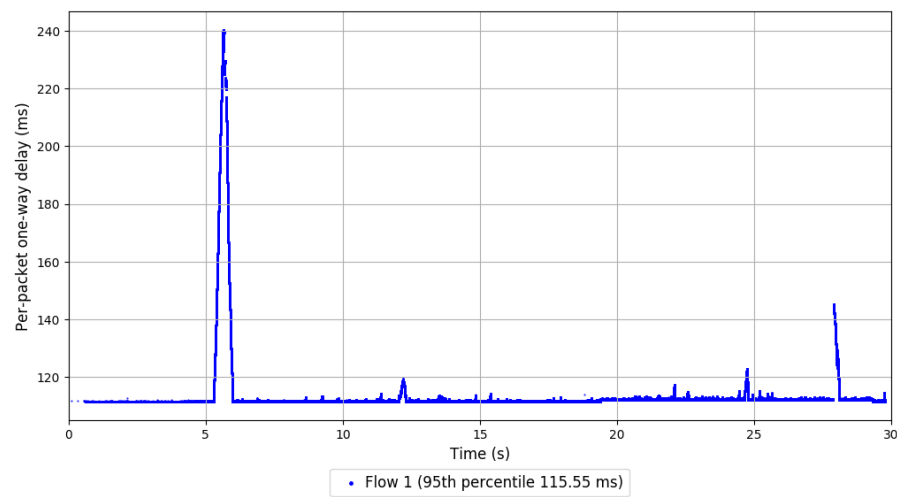
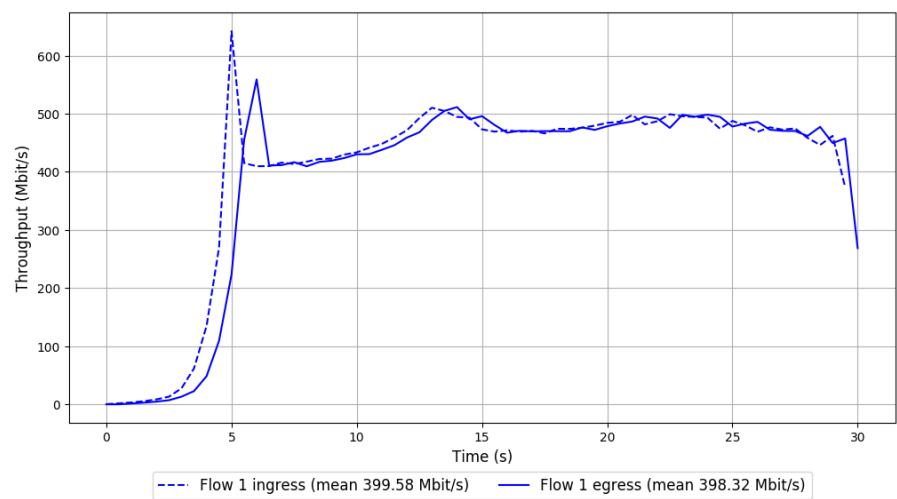
-- Flow 1:

Average throughput: 398.32 Mbit/s

95th percentile per-packet one-way delay: 115.554 ms

Loss rate: 1.06%

Run 7: Report of PCC-Vivace — Data Link

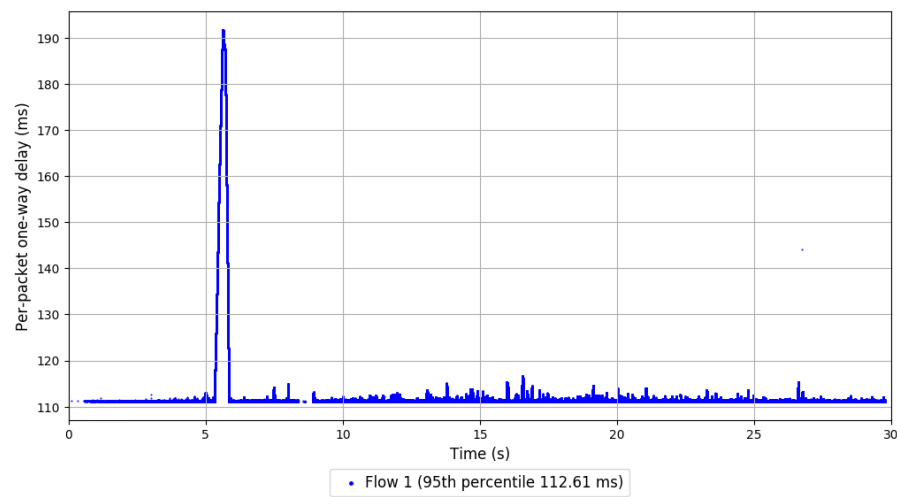
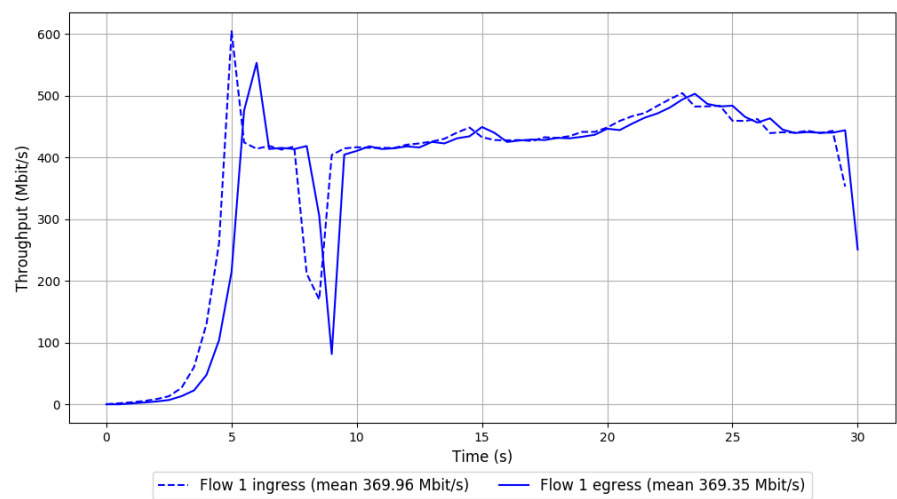


Run 8: Statistics of PCC-Vivace

Start at: 2018-06-30 02:00:50
End at: 2018-06-30 02:01:20
Local clock offset: -0.253 ms
Remote clock offset: -0.349 ms

Below is generated by plot.py at 2018-06-30 04:13:39
Datalink statistics
-- Total of 1 flow:
Average throughput: 369.35 Mbit/s
95th percentile per-packet one-way delay: 112.605 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 369.35 Mbit/s
95th percentile per-packet one-way delay: 112.605 ms
Loss rate: 0.91%

Run 8: Report of PCC-Vivace — Data Link



Run 9: Statistics of PCC-Vivace

Start at: 2018-06-30 02:23:11

End at: 2018-06-30 02:23:41

Local clock offset: 1.346 ms

Remote clock offset: -0.373 ms

Below is generated by plot.py at 2018-06-30 04:13:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 366.08 Mbit/s

95th percentile per-packet one-way delay: 114.316 ms

Loss rate: 0.94%

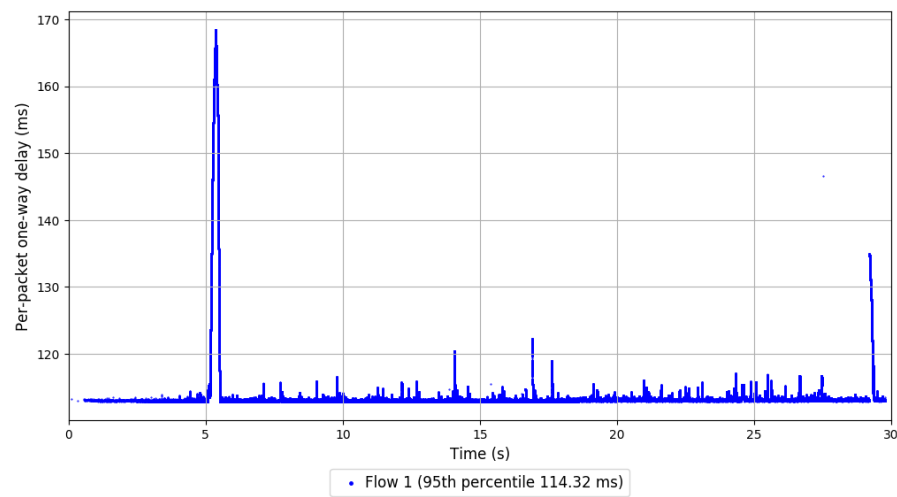
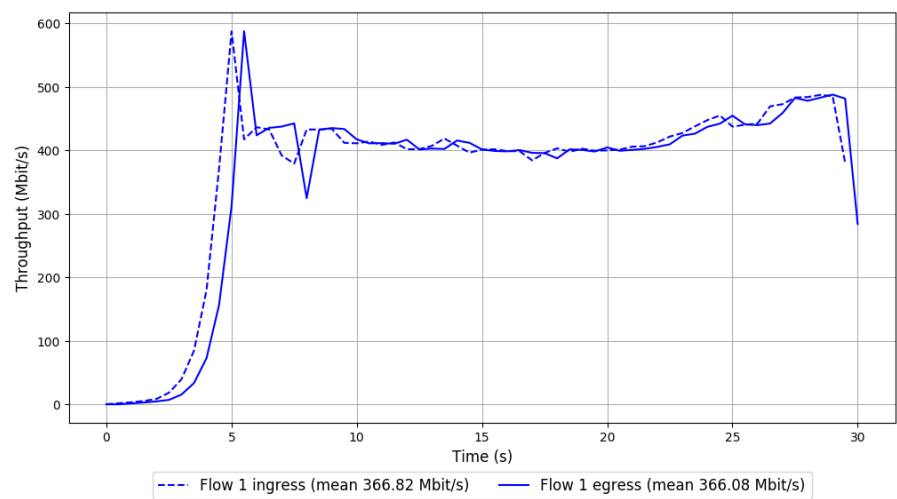
-- Flow 1:

Average throughput: 366.08 Mbit/s

95th percentile per-packet one-way delay: 114.316 ms

Loss rate: 0.94%

Run 9: Report of PCC-Vivace — Data Link

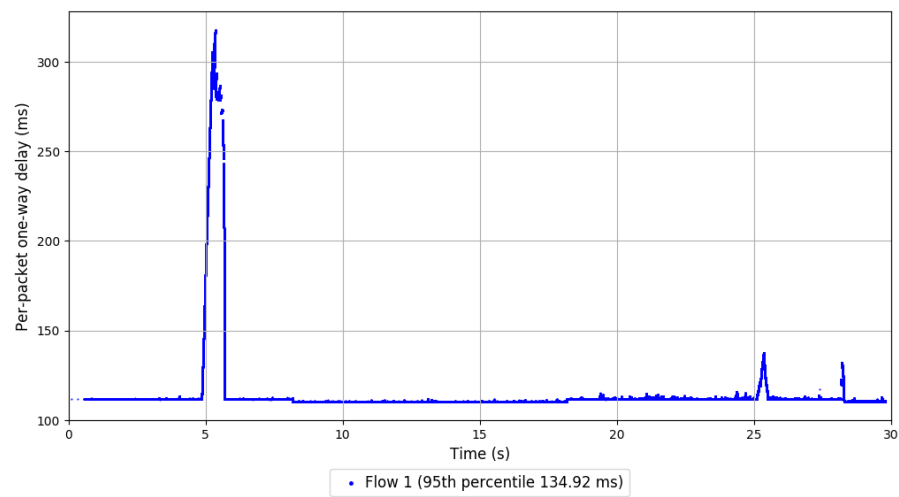
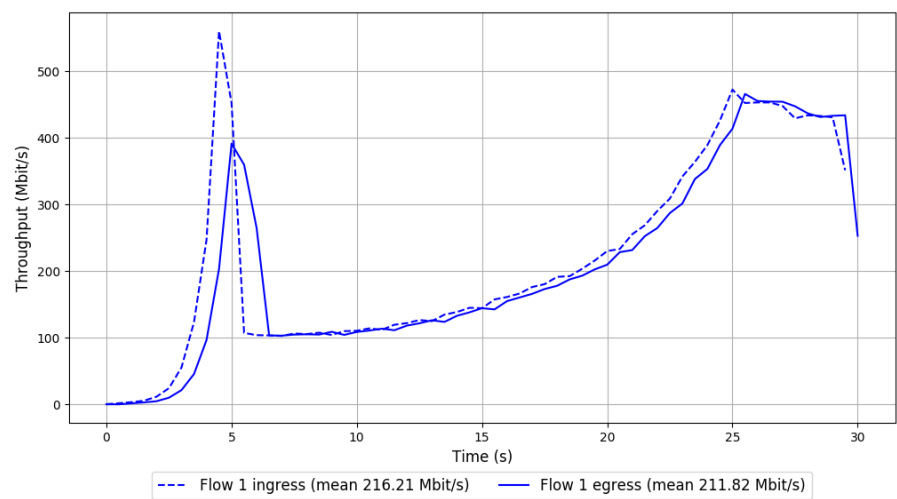


Run 10: Statistics of PCC-Vivace

Start at: 2018-06-30 02:45:21
End at: 2018-06-30 02:45:51
Local clock offset: -0.127 ms
Remote clock offset: -0.403 ms

Below is generated by plot.py at 2018-06-30 04:13:53
Datalink statistics
-- Total of 1 flow:
Average throughput: 211.82 Mbit/s
95th percentile per-packet one-way delay: 134.921 ms
Loss rate: 2.76%
-- Flow 1:
Average throughput: 211.82 Mbit/s
95th percentile per-packet one-way delay: 134.921 ms
Loss rate: 2.76%

Run 10: Report of PCC-Vivace — Data Link

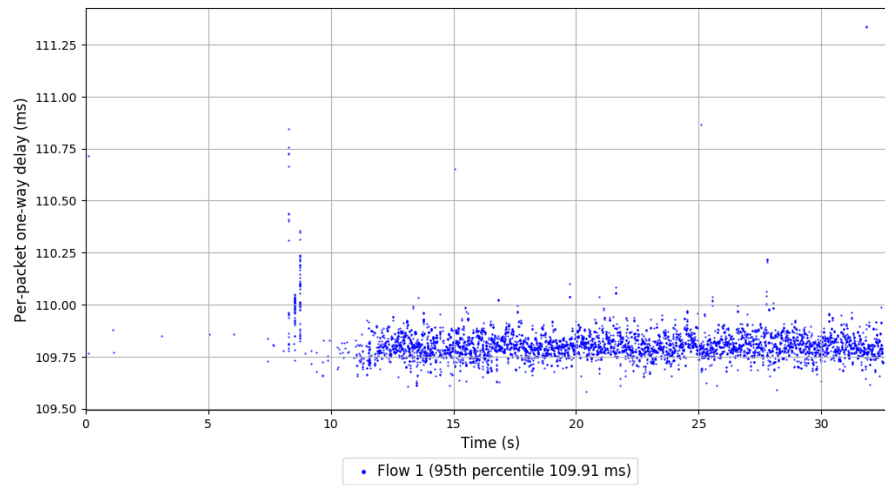
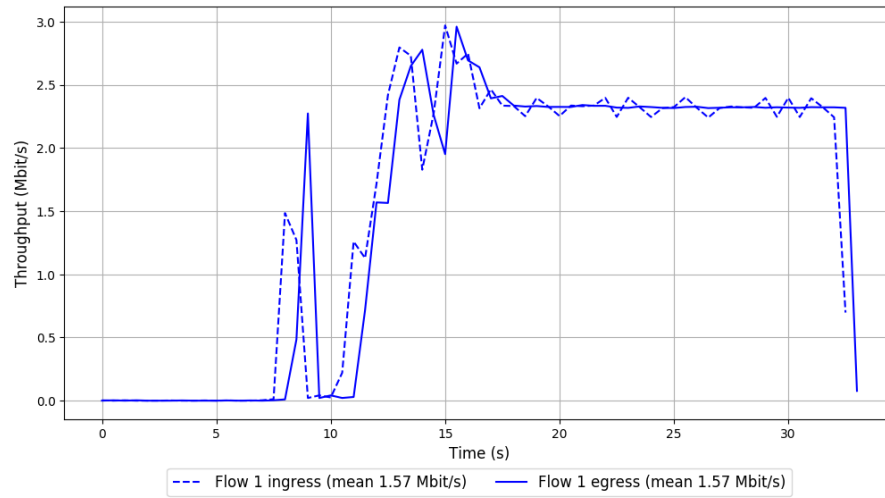


```
Run 1: Statistics of WebRTC media

Start at: 2018-06-29 23:18:27
End at: 2018-06-29 23:18:57
Local clock offset: -1.356 ms
Remote clock offset: 0.044 ms

# Below is generated by plot.py at 2018-06-30 04:13:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.57 Mbit/s
95th percentile per-packet one-way delay: 109.909 ms
Loss rate: 1.06%
-- Flow 1:
Average throughput: 1.57 Mbit/s
95th percentile per-packet one-way delay: 109.909 ms
Loss rate: 1.06%
```


Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-06-29 23:40:56

End at: 2018-06-29 23:41:26

Local clock offset: 0.051 ms

Remote clock offset: 0.132 ms

Below is generated by plot.py at 2018-06-30 04:13:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.87 Mbit/s

95th percentile per-packet one-way delay: 111.516 ms

Loss rate: 0.89%

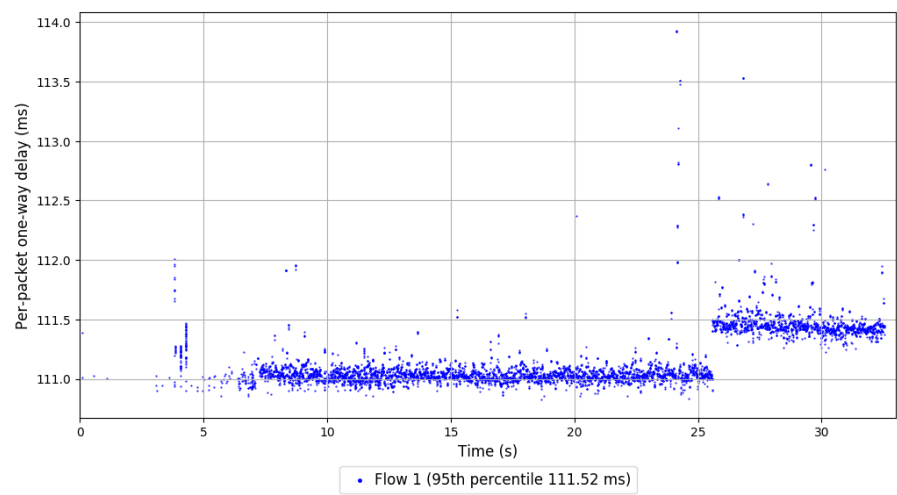
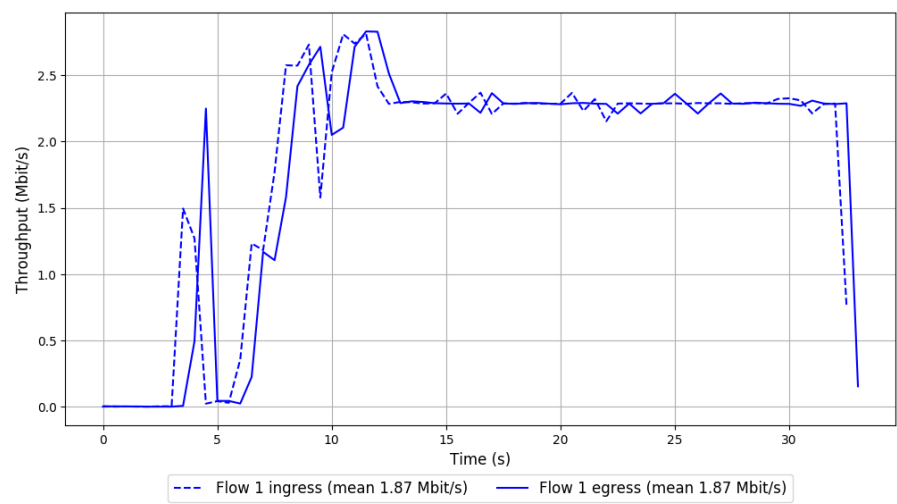
-- Flow 1:

Average throughput: 1.87 Mbit/s

95th percentile per-packet one-way delay: 111.516 ms

Loss rate: 0.89%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-06-30 00:03:19

End at: 2018-06-30 00:03:49

Local clock offset: -0.12 ms

Remote clock offset: 0.018 ms

Below is generated by plot.py at 2018-06-30 04:13:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.89 Mbit/s

95th percentile per-packet one-way delay: 111.316 ms

Loss rate: 0.81%

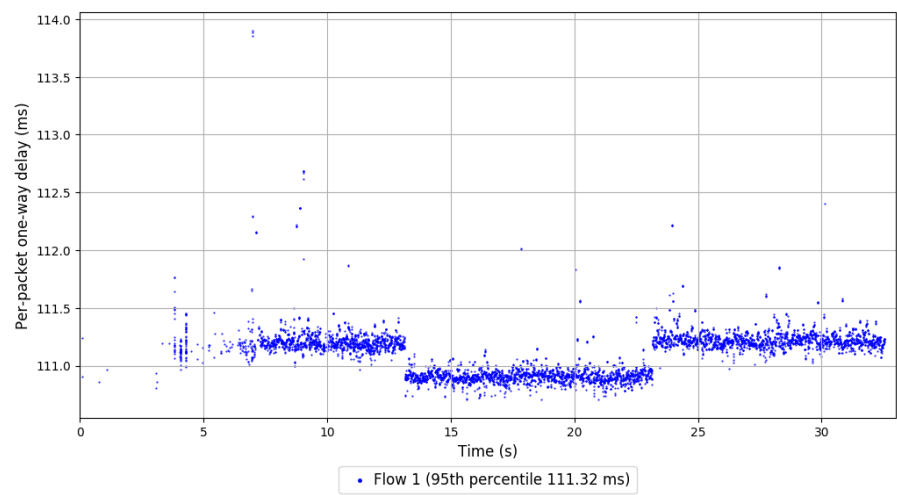
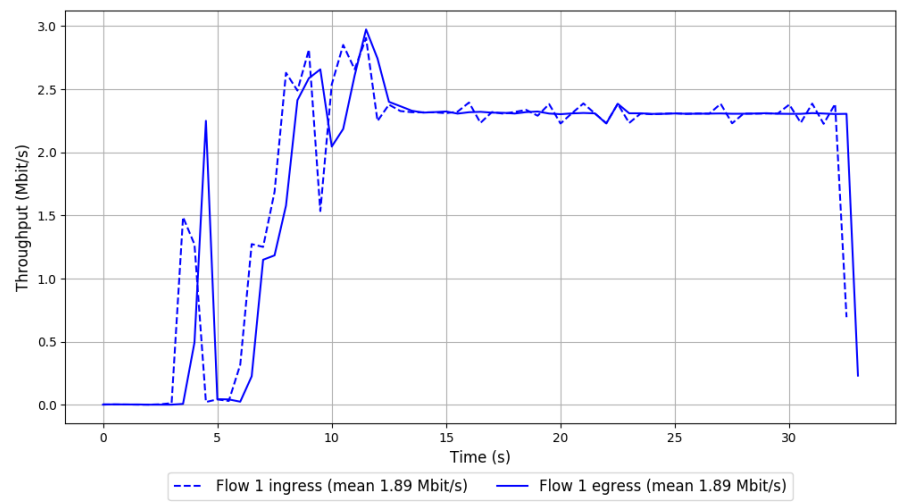
-- Flow 1:

Average throughput: 1.89 Mbit/s

95th percentile per-packet one-way delay: 111.316 ms

Loss rate: 0.81%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-06-30 00:25:19

End at: 2018-06-30 00:25:49

Local clock offset: -0.201 ms

Remote clock offset: 0.094 ms

Below is generated by plot.py at 2018-06-30 04:13:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.88 Mbit/s

95th percentile per-packet one-way delay: 112.887 ms

Loss rate: 0.87%

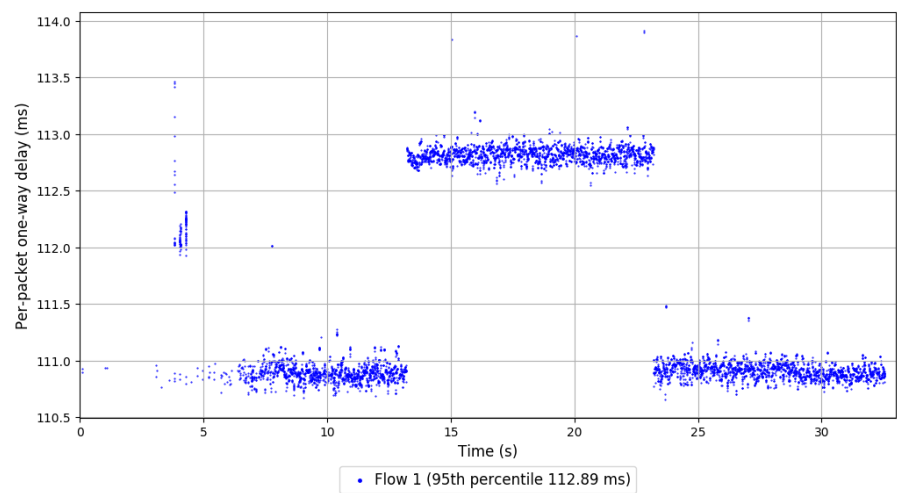
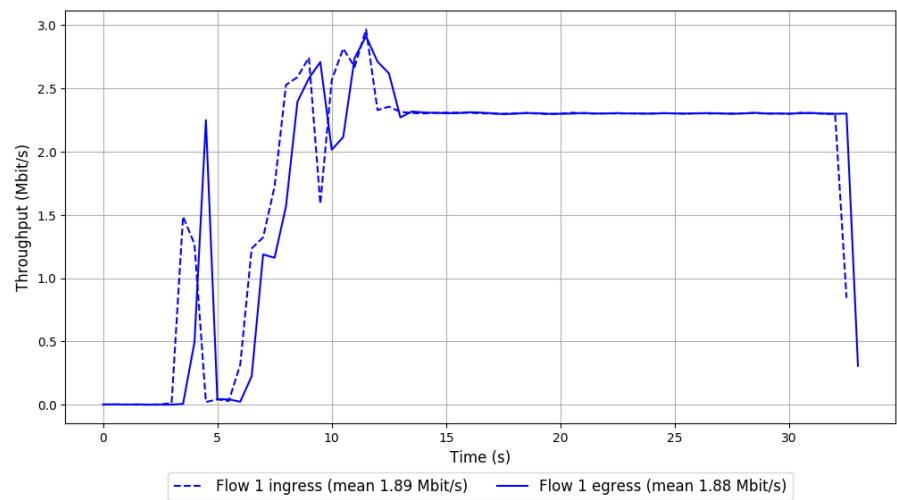
-- Flow 1:

Average throughput: 1.88 Mbit/s

95th percentile per-packet one-way delay: 112.887 ms

Loss rate: 0.87%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-06-30 00:47:21

End at: 2018-06-30 00:47:51

Local clock offset: -0.219 ms

Remote clock offset: 0.05 ms

Below is generated by plot.py at 2018-06-30 04:13:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.90 Mbit/s

95th percentile per-packet one-way delay: 111.069 ms

Loss rate: 0.86%

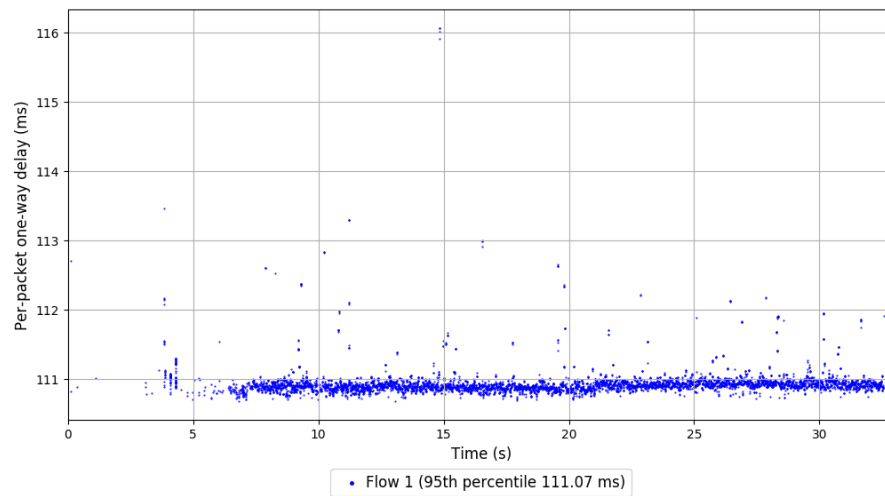
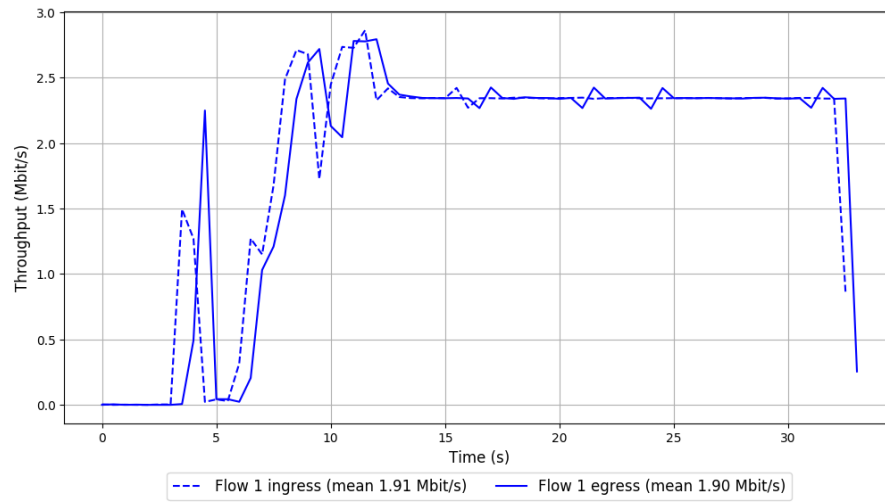
-- Flow 1:

Average throughput: 1.90 Mbit/s

95th percentile per-packet one-way delay: 111.069 ms

Loss rate: 0.86%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-06-30 01:09:33

End at: 2018-06-30 01:10:03

Local clock offset: -0.176 ms

Remote clock offset: 0.094 ms

Below is generated by plot.py at 2018-06-30 04:13:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.90 Mbit/s

95th percentile per-packet one-way delay: 111.472 ms

Loss rate: 0.81%

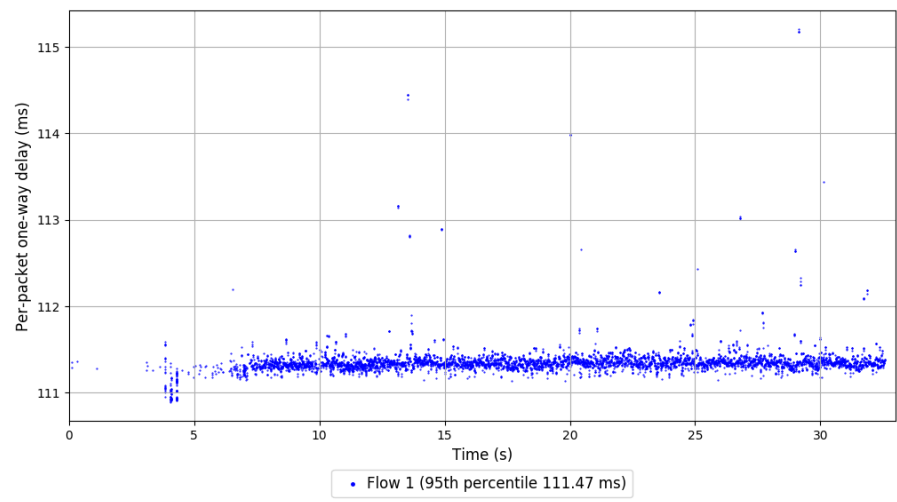
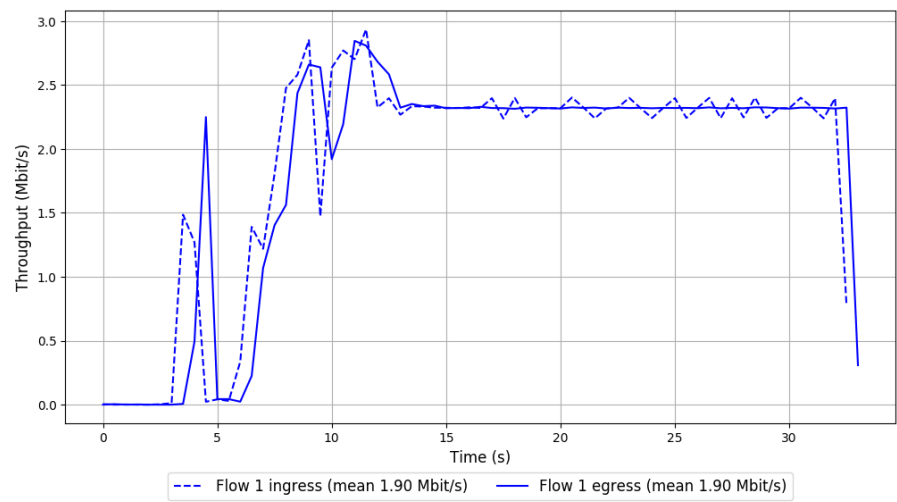
-- Flow 1:

Average throughput: 1.90 Mbit/s

95th percentile per-packet one-way delay: 111.472 ms

Loss rate: 0.81%

Run 6: Report of WebRTC media — Data Link

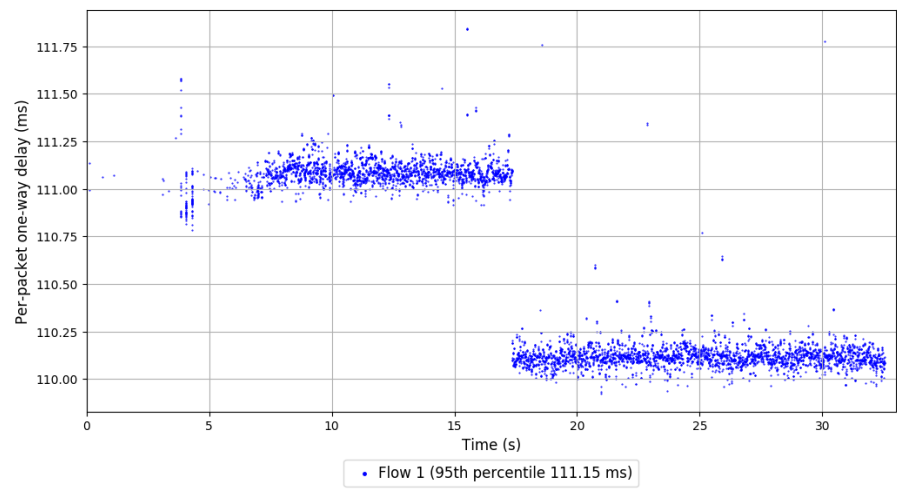
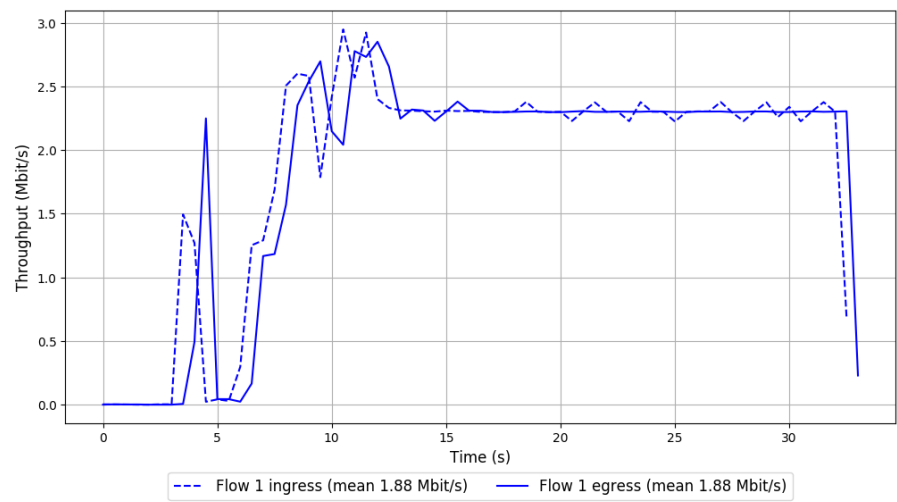


Run 7: Statistics of WebRTC media

Start at: 2018-06-30 01:32:05
End at: 2018-06-30 01:32:35
Local clock offset: -0.48 ms
Remote clock offset: -0.386 ms

Below is generated by plot.py at 2018-06-30 04:13:53
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.88 Mbit/s
95th percentile per-packet one-way delay: 111.153 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 1.88 Mbit/s
95th percentile per-packet one-way delay: 111.153 ms
Loss rate: 0.81%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-06-30 01:54:46

End at: 2018-06-30 01:55:16

Local clock offset: -1.374 ms

Remote clock offset: -0.28 ms

Below is generated by plot.py at 2018-06-30 04:13:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.89 Mbit/s

95th percentile per-packet one-way delay: 110.550 ms

Loss rate: 0.87%

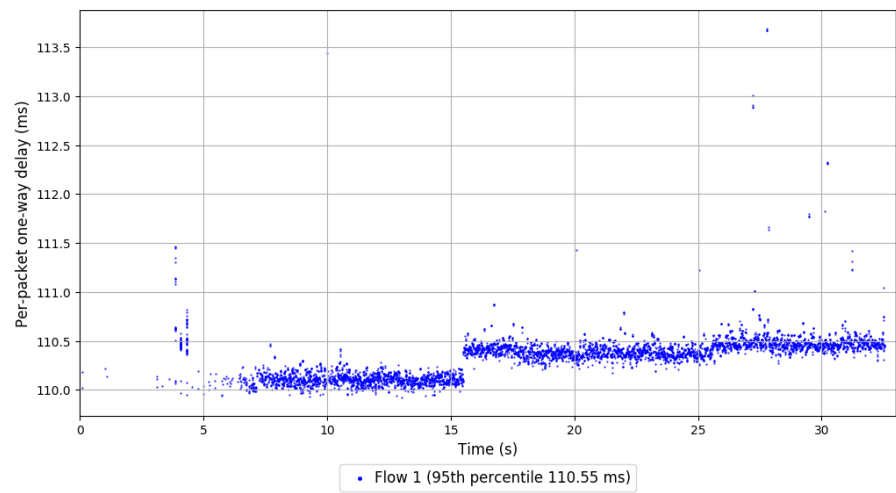
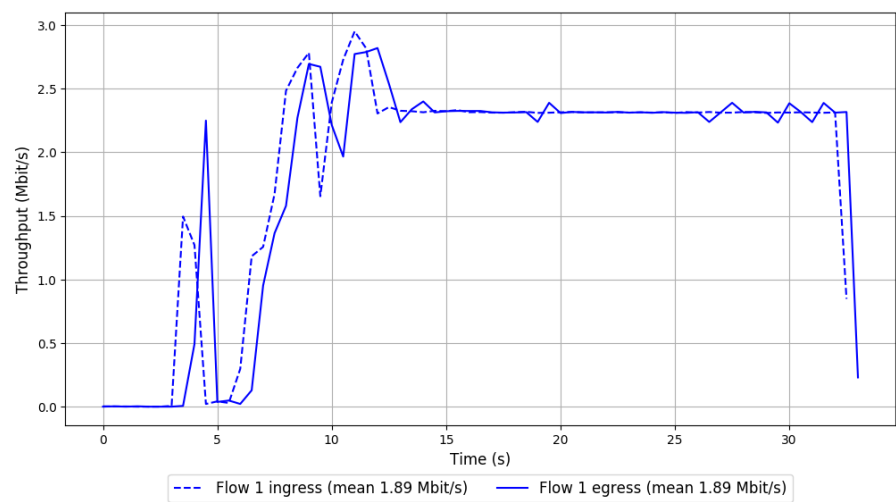
-- Flow 1:

Average throughput: 1.89 Mbit/s

95th percentile per-packet one-way delay: 110.550 ms

Loss rate: 0.87%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-06-30 02:17:06

End at: 2018-06-30 02:17:36

Local clock offset: 1.241 ms

Remote clock offset: 0.418 ms

Below is generated by plot.py at 2018-06-30 04:13:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.87 Mbit/s

95th percentile per-packet one-way delay: 112.235 ms

Loss rate: 0.81%

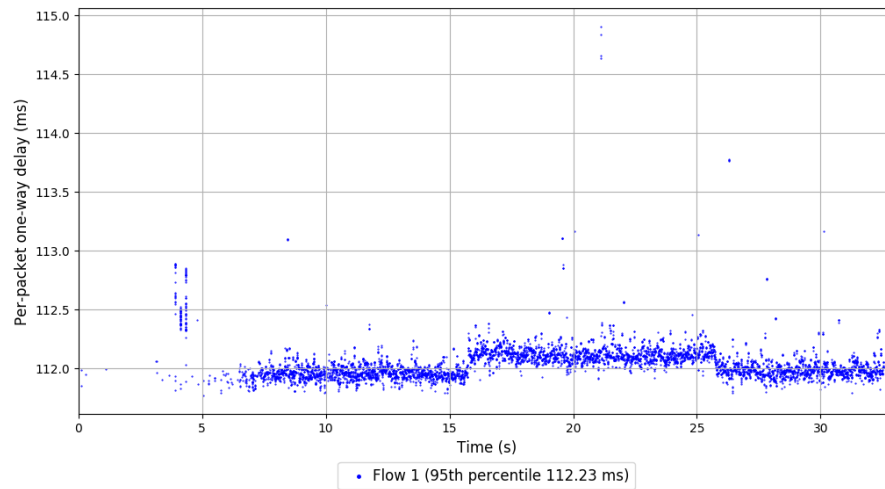
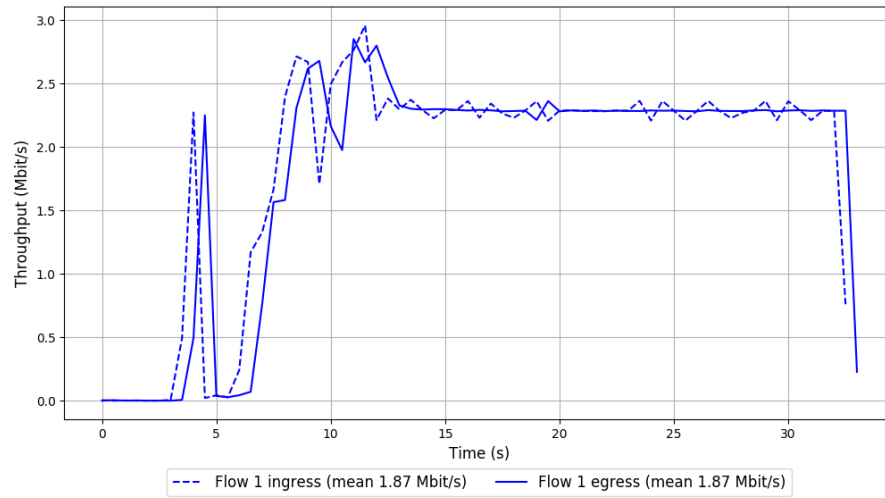
-- Flow 1:

Average throughput: 1.87 Mbit/s

95th percentile per-packet one-way delay: 112.235 ms

Loss rate: 0.81%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-06-30 02:39:17

End at: 2018-06-30 02:39:47

Local clock offset: 1.259 ms

Remote clock offset: 0.376 ms

Below is generated by plot.py at 2018-06-30 04:13:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.90 Mbit/s

95th percentile per-packet one-way delay: 112.195 ms

Loss rate: 0.88%

-- Flow 1:

Average throughput: 1.90 Mbit/s

95th percentile per-packet one-way delay: 112.195 ms

Loss rate: 0.88%

Run 10: Report of WebRTC media — Data Link

