

Pantheon Report

Generated at 2018-07-17 13:46:05 (UTC).

Data path: AWS Korea Ethernet (*local*) → China Ethernet (*remote*).

Repeated the test of 17 congestion control schemes 10 times.

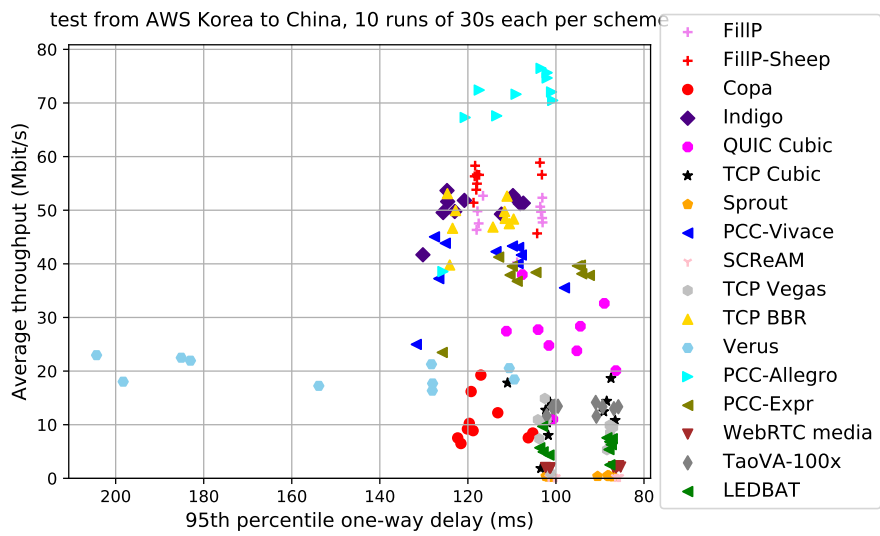
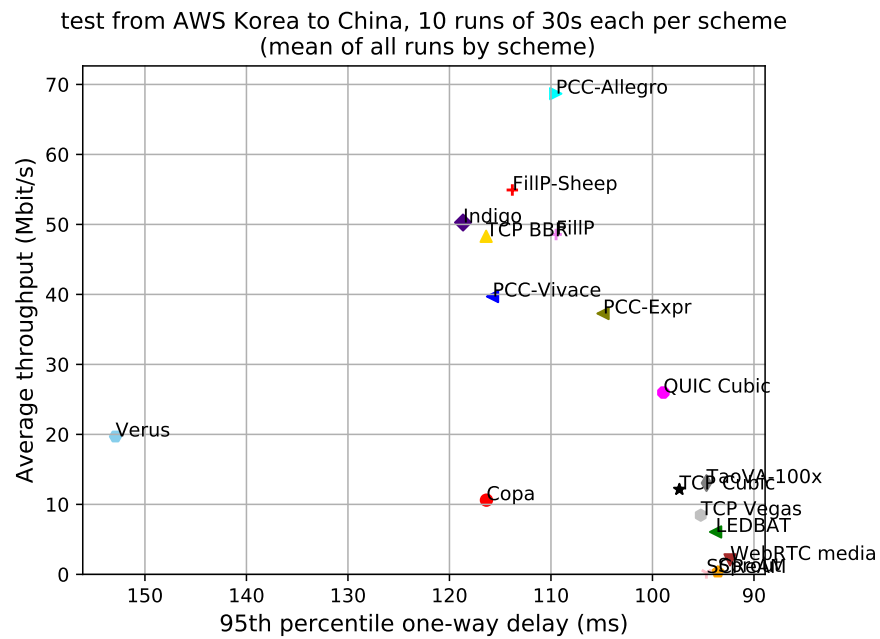
Each test lasted for 30 seconds running 1 flow.

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

NTP offsets were measured against `ntp.nict.jp` and have been applied to correct the timestamps in logs.

Git summary:

```
branch: master @ f7befc2d8410f41949e0ad8143a9aab40bab7edb
third_party/fillp @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/fillp-sheep @ daed0c84f98531712514b2231f43ec6901114ffe
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
```



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	48.31	116.38	8.25
Copa	10	10.60	116.36	11.74
TCP Cubic	10	12.13	97.35	0.59
FillP	10	48.56	109.50	30.40
FillP-Sheep	10	54.92	113.81	30.46
Indigo	10	50.27	118.66	4.71
LEDBAT	10	6.06	93.78	0.33
PCC-Allegro	10	68.68	109.52	6.95
PCC-Expr	10	37.27	104.87	2.65
QUIC Cubic	9	25.98	98.92	1.15
SCReAM	10	0.21	94.69	0.12
Sprout	10	0.36	93.56	0.01
TaoVA-100x	10	13.04	94.68	1.23
TCP Vegas	10	8.45	95.24	0.50
Verus	10	19.70	152.90	73.93
PCC-Vivace	10	39.70	115.76	2.06
WebRTC media	10	2.07	92.36	0.05

Run 1: Statistics of TCP BBR

Start at: 2018-07-17 08:52:35

End at: 2018-07-17 08:53:05

Local clock offset: 12.515 ms

Remote clock offset: 0.668 ms

Below is generated by plot.py at 2018-07-17 13:35:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 39.79 Mbit/s

95th percentile per-packet one-way delay: 124.130 ms

Loss rate: 3.88%

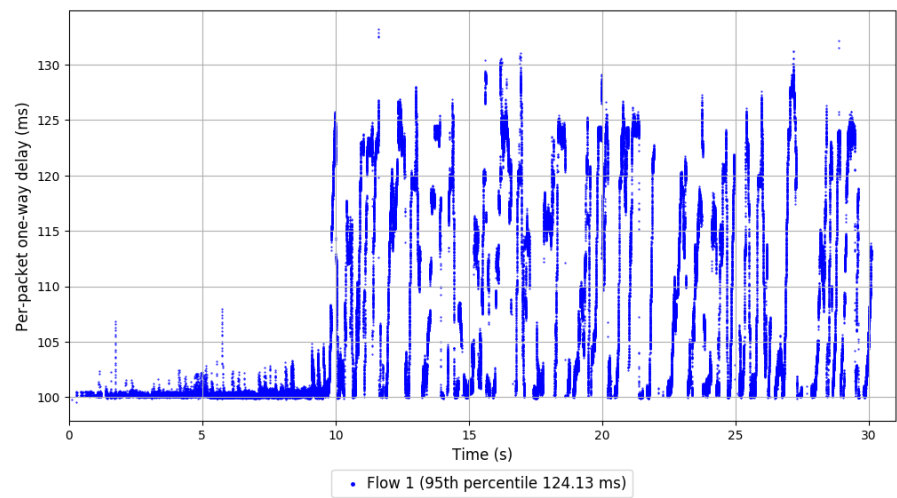
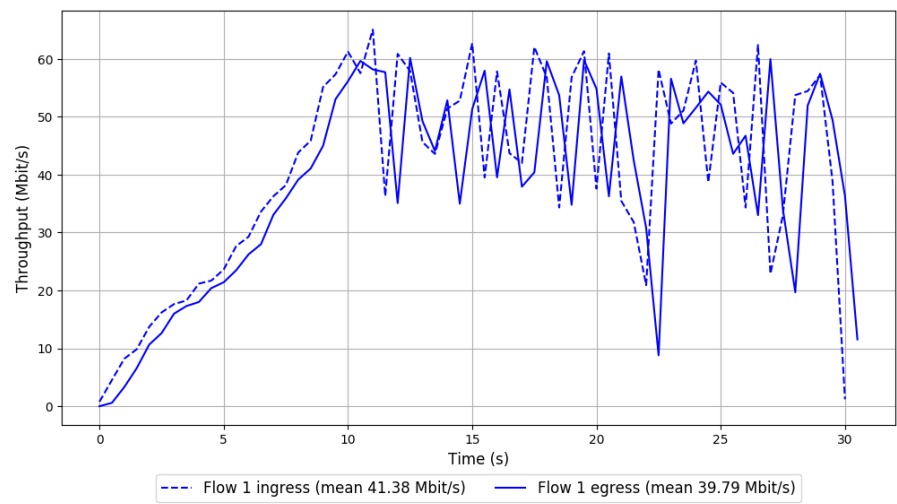
-- Flow 1:

Average throughput: 39.79 Mbit/s

95th percentile per-packet one-way delay: 124.130 ms

Loss rate: 3.88%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-07-17 09:19:26

End at: 2018-07-17 09:19:56

Local clock offset: 8.375 ms

Remote clock offset: 0.751 ms

Below is generated by plot.py at 2018-07-17 13:36:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 49.94 Mbit/s

95th percentile per-packet one-way delay: 122.798 ms

Loss rate: 7.18%

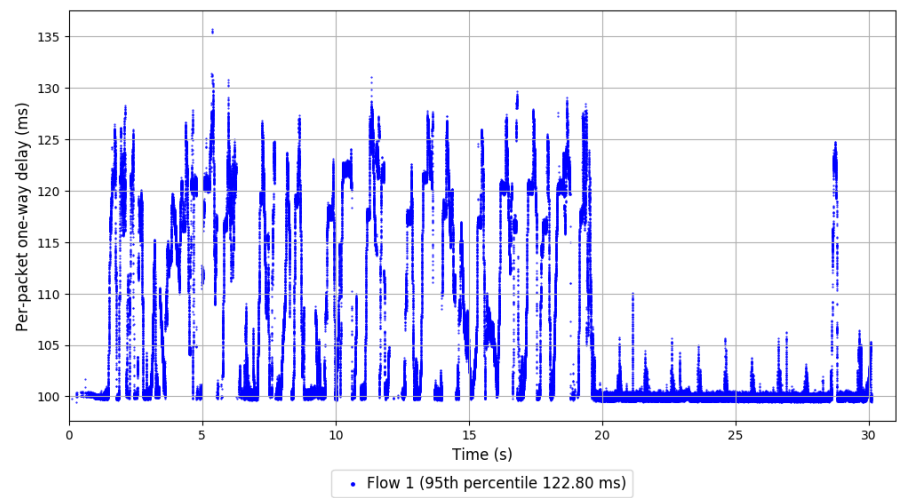
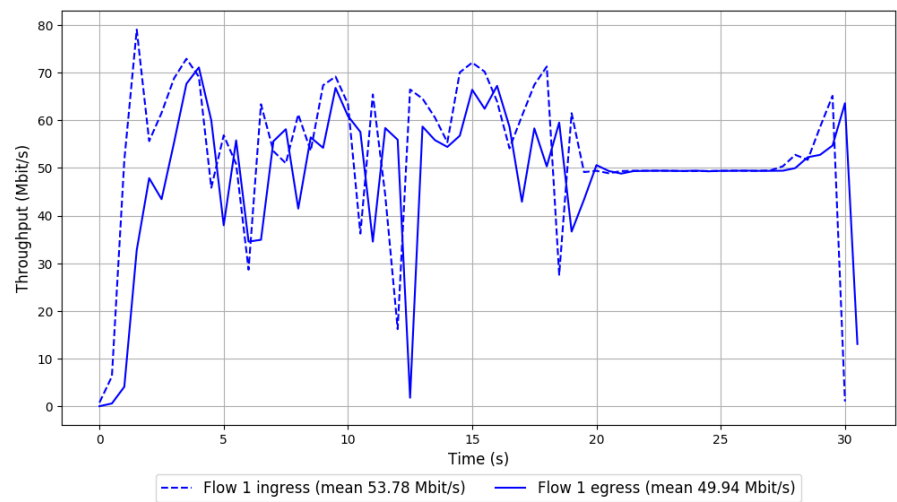
-- Flow 1:

Average throughput: 49.94 Mbit/s

95th percentile per-packet one-way delay: 122.798 ms

Loss rate: 7.18%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-07-17 09:46:32

End at: 2018-07-17 09:47:02

Local clock offset: 0.784 ms

Remote clock offset: 0.956 ms

Below is generated by plot.py at 2018-07-17 13:36:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 53.10 Mbit/s

95th percentile per-packet one-way delay: 124.653 ms

Loss rate: 10.62%

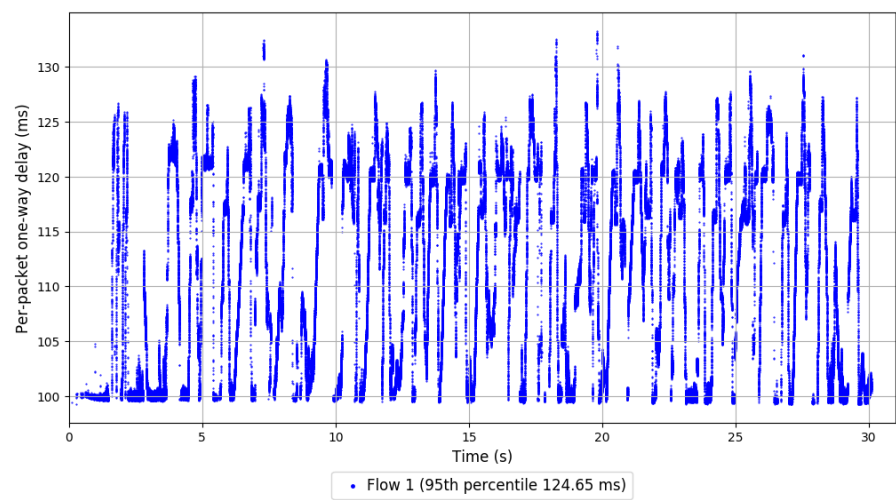
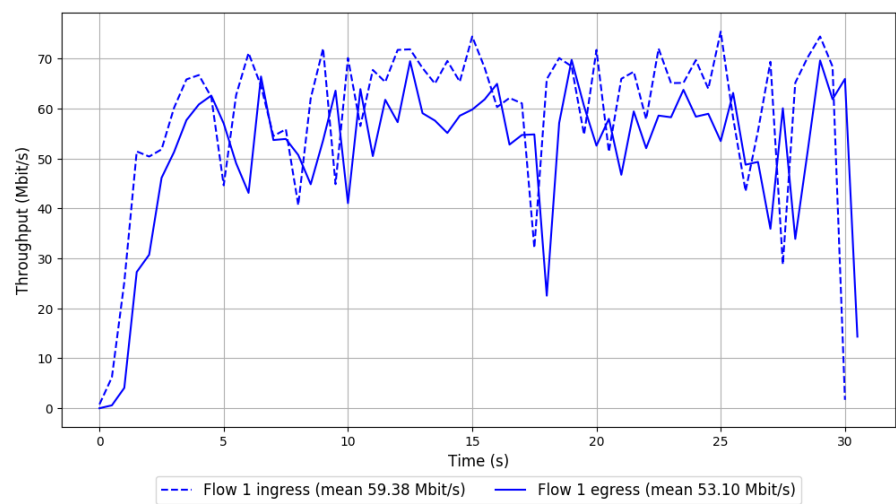
-- Flow 1:

Average throughput: 53.10 Mbit/s

95th percentile per-packet one-way delay: 124.653 ms

Loss rate: 10.62%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-07-17 10:14:10

End at: 2018-07-17 10:14:40

Local clock offset: -4.365 ms

Remote clock offset: 1.207 ms

Below is generated by plot.py at 2018-07-17 13:36:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 49.78 Mbit/s

95th percentile per-packet one-way delay: 111.659 ms

Loss rate: 7.31%

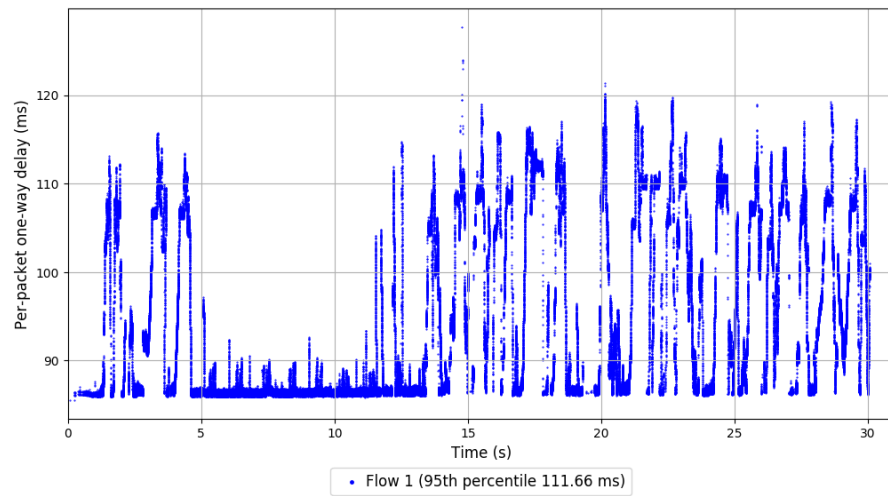
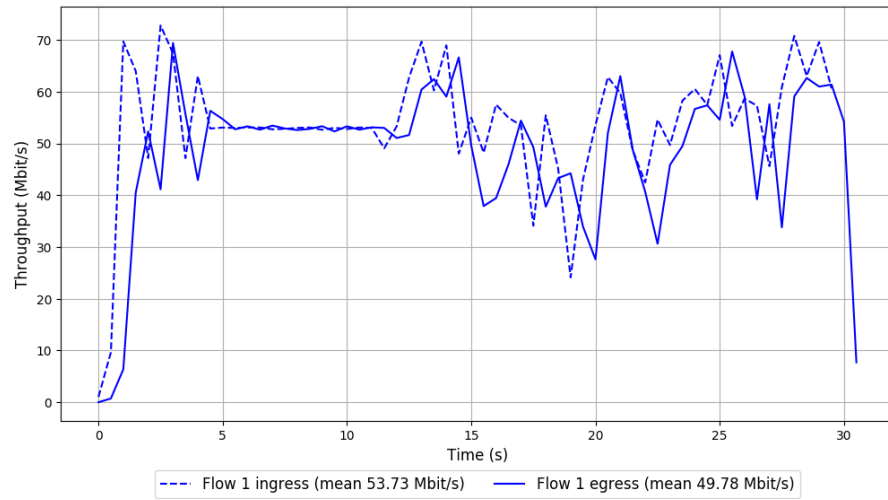
-- Flow 1:

Average throughput: 49.78 Mbit/s

95th percentile per-packet one-way delay: 111.659 ms

Loss rate: 7.31%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-07-17 10:40:00

End at: 2018-07-17 10:40:30

Local clock offset: 0.249 ms

Remote clock offset: 1.249 ms

Below is generated by plot.py at 2018-07-17 13:36:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 48.48 Mbit/s

95th percentile per-packet one-way delay: 111.520 ms

Loss rate: 11.44%

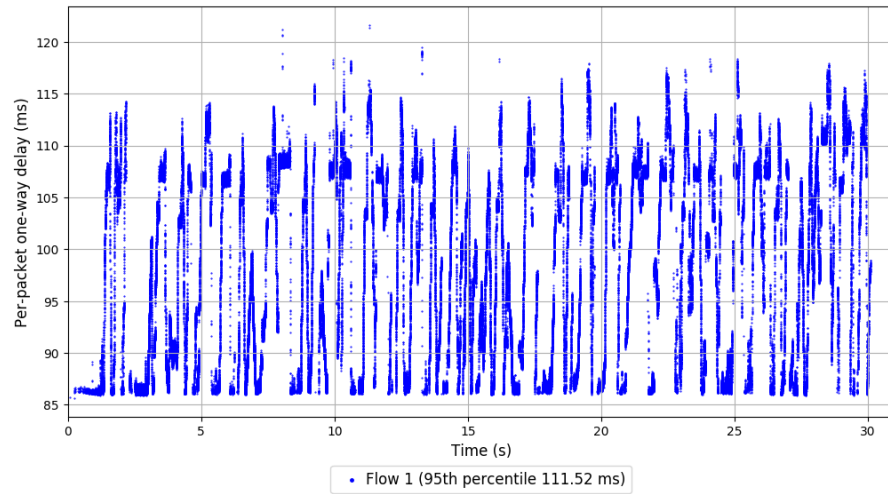
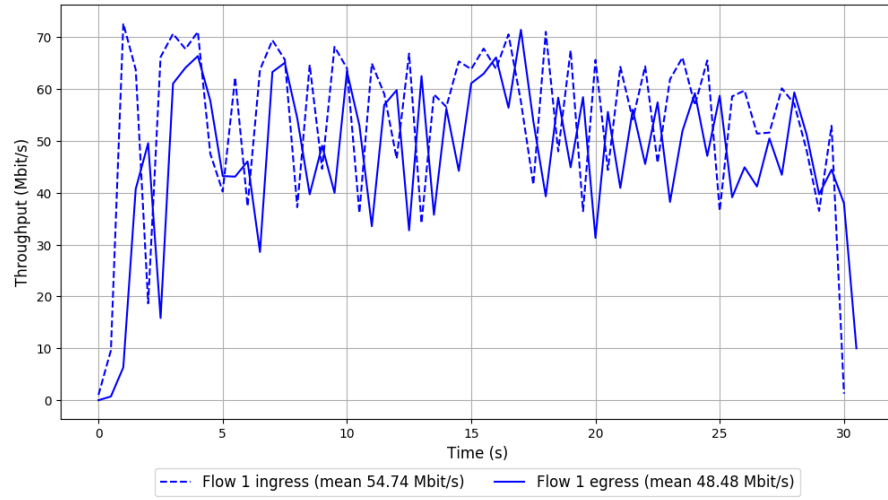
-- Flow 1:

Average throughput: 48.48 Mbit/s

95th percentile per-packet one-way delay: 111.520 ms

Loss rate: 11.44%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-07-17 11:05:55

End at: 2018-07-17 11:06:25

Local clock offset: -9.804 ms

Remote clock offset: 0.949 ms

Below is generated by plot.py at 2018-07-17 13:36:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 48.36 Mbit/s

95th percentile per-packet one-way delay: 109.618 ms

Loss rate: 6.81%

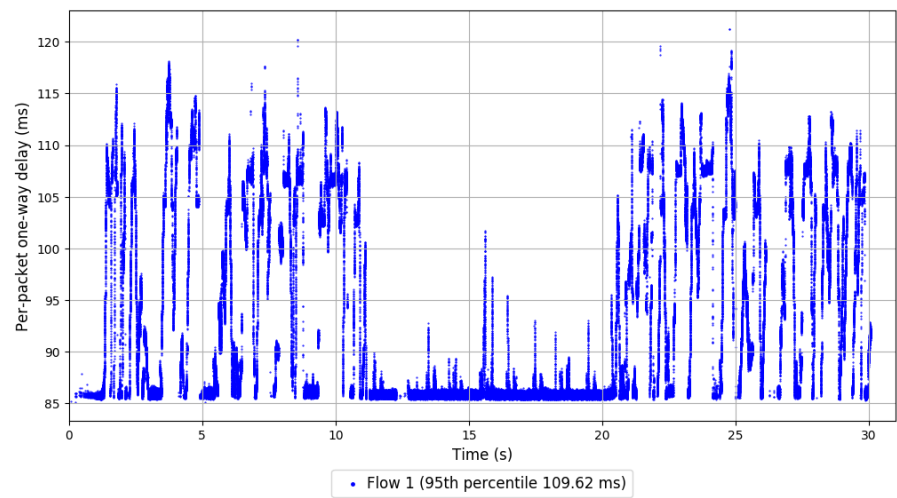
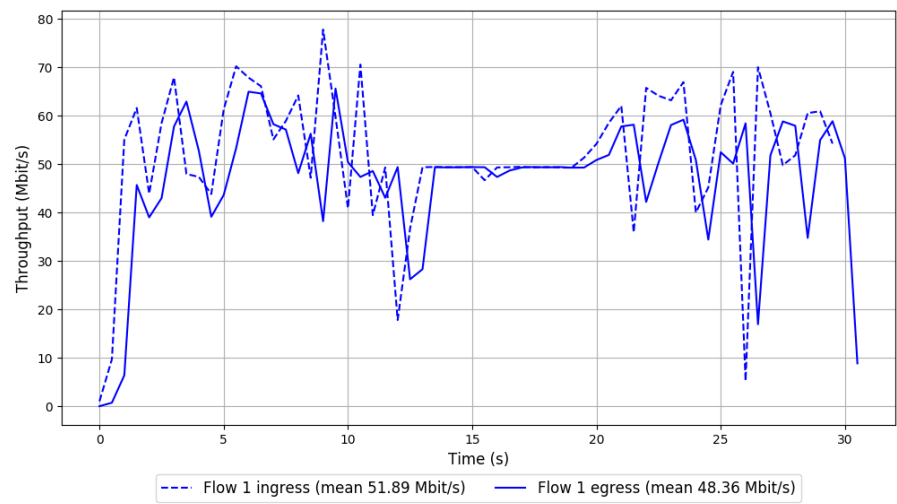
-- Flow 1:

Average throughput: 48.36 Mbit/s

95th percentile per-packet one-way delay: 109.618 ms

Loss rate: 6.81%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-07-17 11:34:29

End at: 2018-07-17 11:34:59

Local clock offset: -6.067 ms

Remote clock offset: 0.647 ms

Below is generated by plot.py at 2018-07-17 13:36:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 46.63 Mbit/s

95th percentile per-packet one-way delay: 123.479 ms

Loss rate: 5.26%

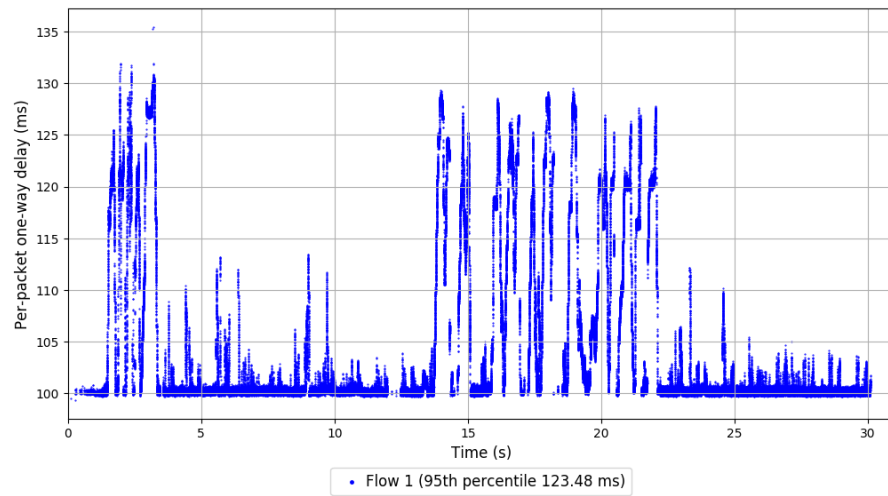
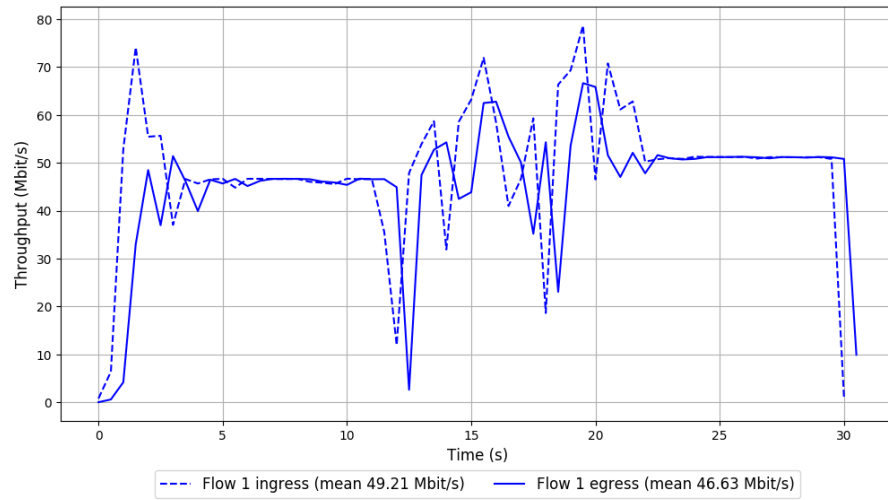
-- Flow 1:

Average throughput: 46.63 Mbit/s

95th percentile per-packet one-way delay: 123.479 ms

Loss rate: 5.26%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-07-17 12:06:52

End at: 2018-07-17 12:07:22

Local clock offset: 3.309 ms

Remote clock offset: 0.525 ms

Below is generated by plot.py at 2018-07-17 13:36:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 46.86 Mbit/s

95th percentile per-packet one-way delay: 114.304 ms

Loss rate: 8.64%

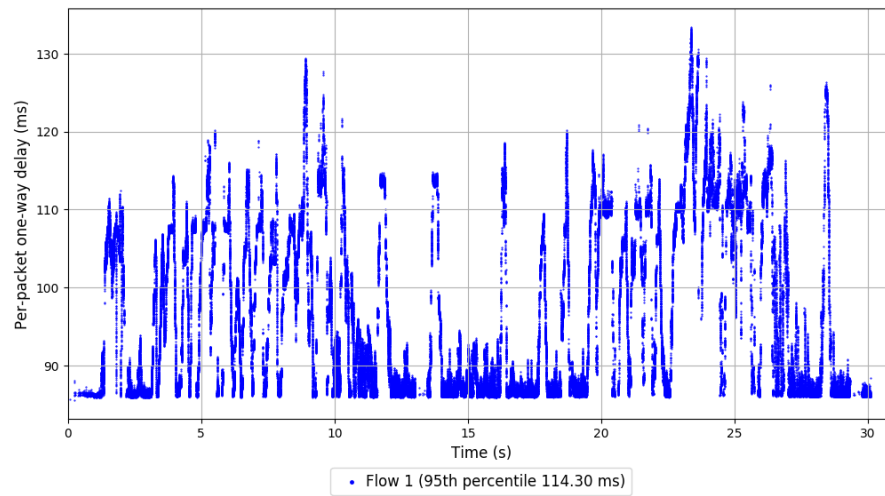
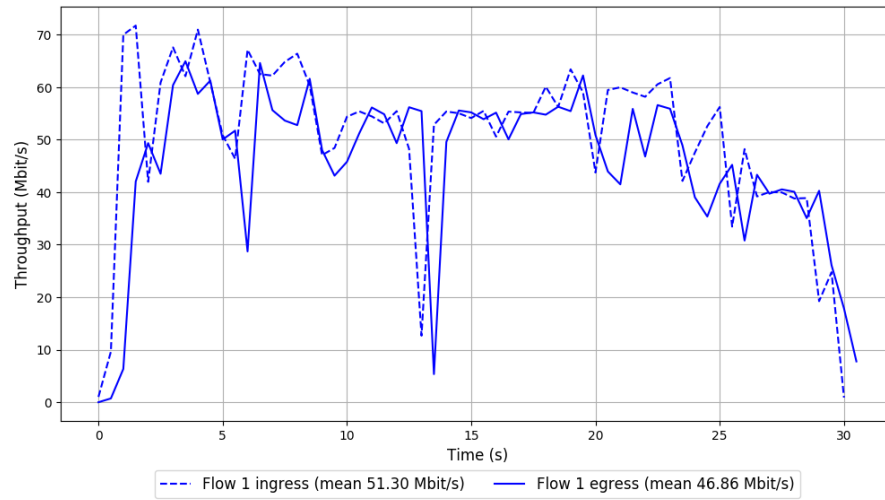
-- Flow 1:

Average throughput: 46.86 Mbit/s

95th percentile per-packet one-way delay: 114.304 ms

Loss rate: 8.64%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-07-17 12:37:51

End at: 2018-07-17 12:38:21

Local clock offset: 5.11 ms

Remote clock offset: 0.415 ms

Below is generated by plot.py at 2018-07-17 13:36:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 52.63 Mbit/s

95th percentile per-packet one-way delay: 111.104 ms

Loss rate: 12.03%

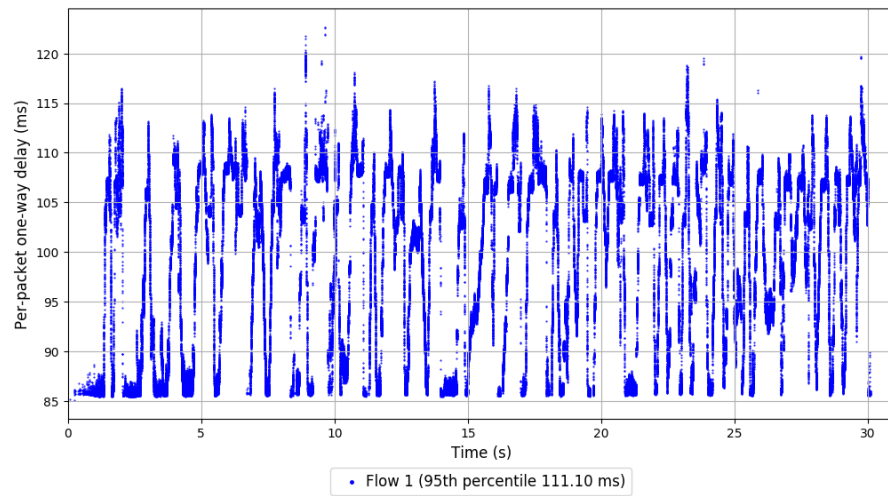
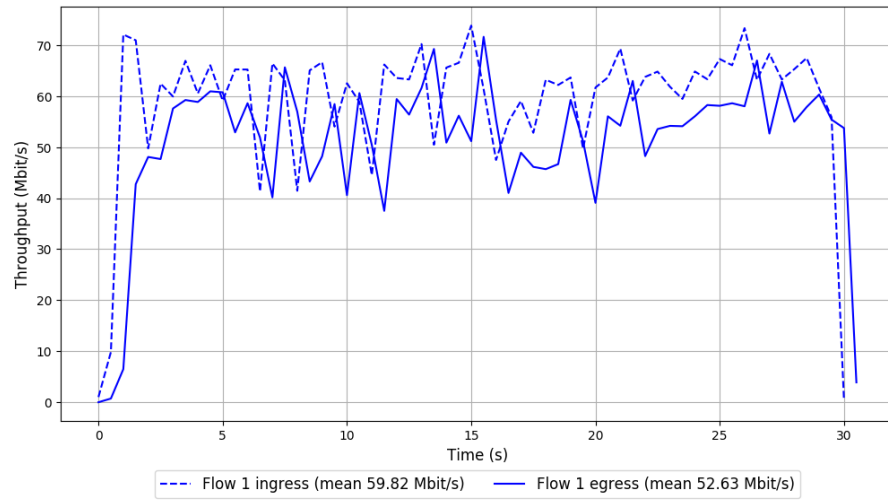
-- Flow 1:

Average throughput: 52.63 Mbit/s

95th percentile per-packet one-way delay: 111.104 ms

Loss rate: 12.03%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-07-17 13:08:01

End at: 2018-07-17 13:08:31

Local clock offset: 7.756 ms

Remote clock offset: 0.277 ms

Below is generated by plot.py at 2018-07-17 13:36:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 47.49 Mbit/s

95th percentile per-packet one-way delay: 110.581 ms

Loss rate: 9.35%

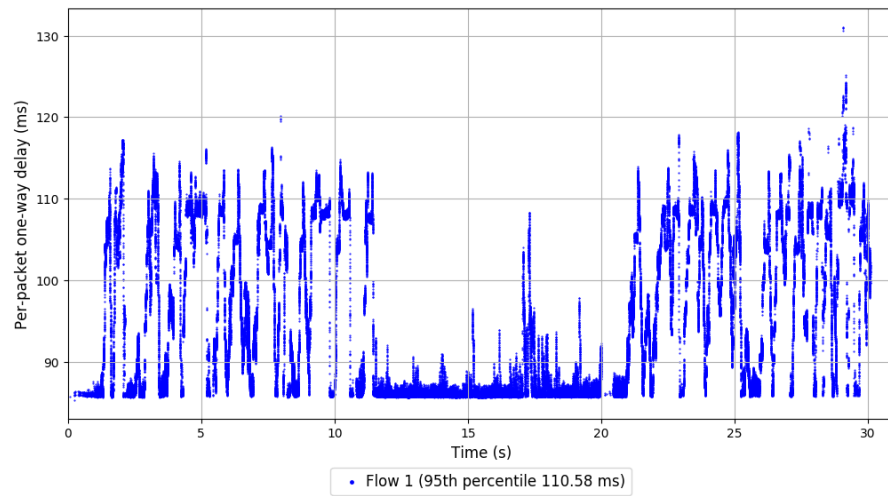
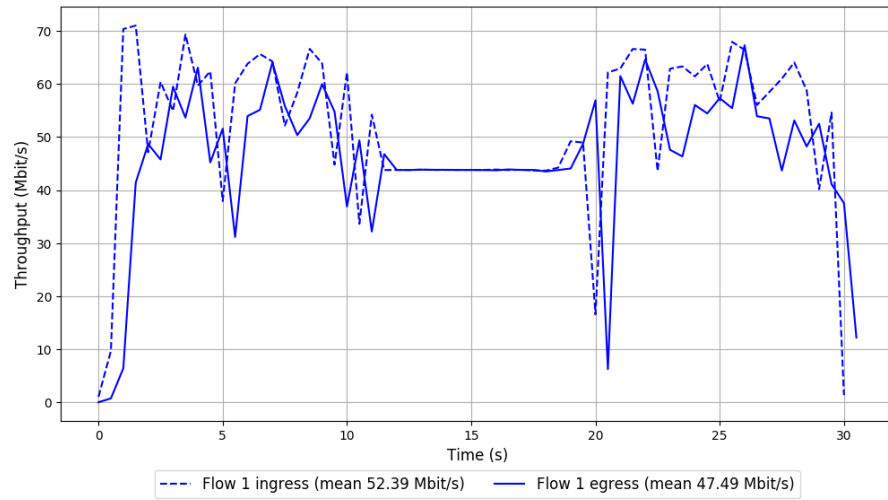
-- Flow 1:

Average throughput: 47.49 Mbit/s

95th percentile per-packet one-way delay: 110.581 ms

Loss rate: 9.35%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2018-07-17 09:14:49

End at: 2018-07-17 09:15:19

Local clock offset: 11.67 ms

Remote clock offset: 0.636 ms

Below is generated by plot.py at 2018-07-17 13:36:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 8.45 Mbit/s

95th percentile per-packet one-way delay: 105.264 ms

Loss rate: 11.36%

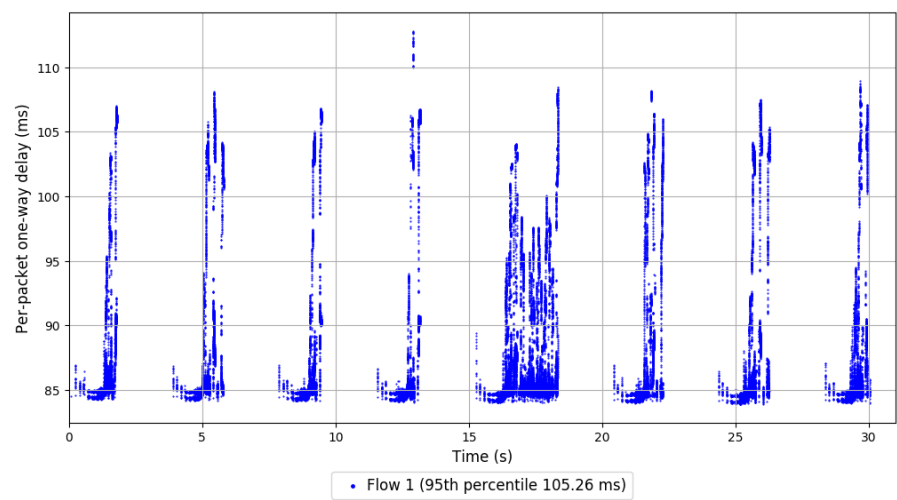
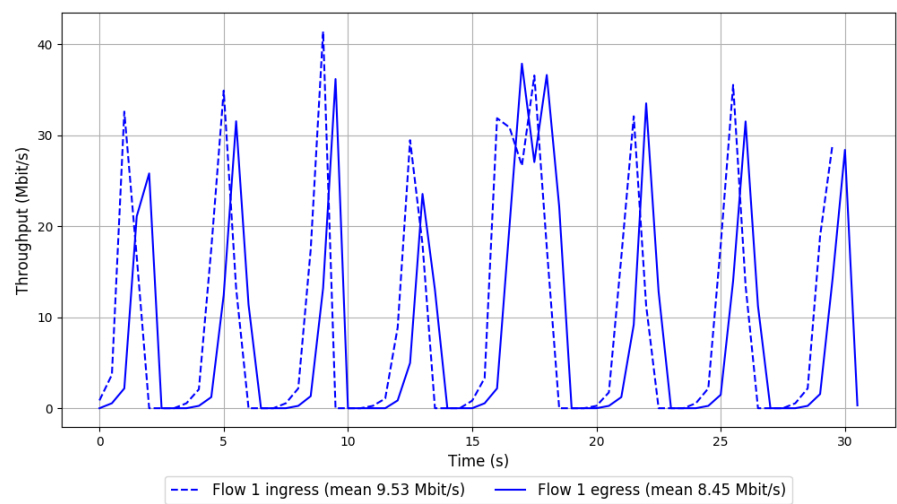
-- Flow 1:

Average throughput: 8.45 Mbit/s

95th percentile per-packet one-way delay: 105.264 ms

Loss rate: 11.36%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-07-17 09:41:51

End at: 2018-07-17 09:42:21

Local clock offset: 6.078 ms

Remote clock offset: 0.964 ms

Below is generated by plot.py at 2018-07-17 13:36:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 8.89 Mbit/s

95th percentile per-packet one-way delay: 118.815 ms

Loss rate: 13.54%

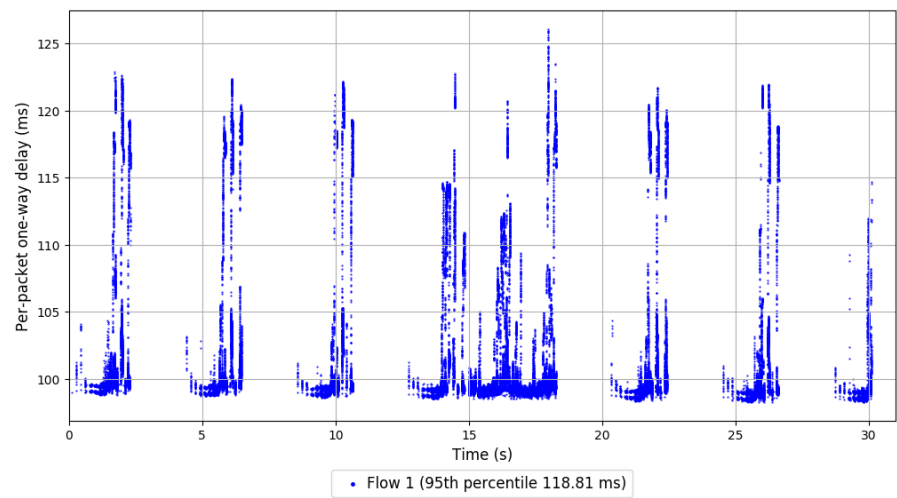
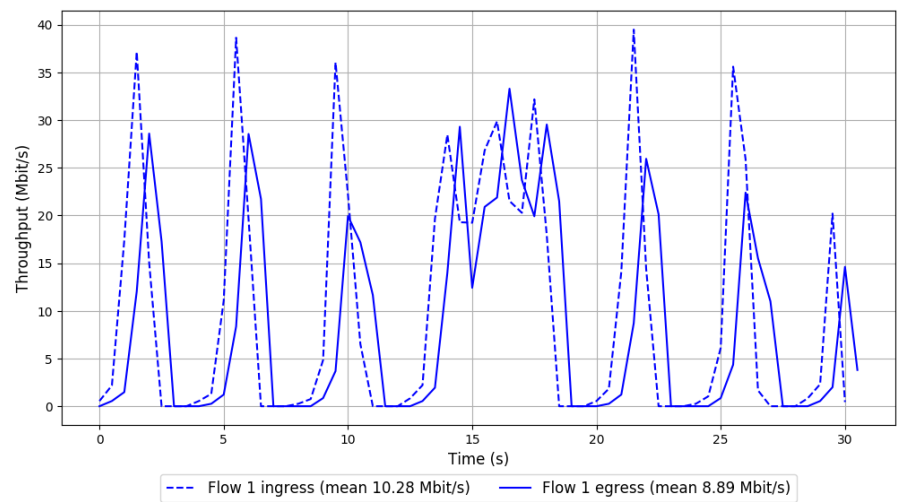
-- Flow 1:

Average throughput: 8.89 Mbit/s

95th percentile per-packet one-way delay: 118.815 ms

Loss rate: 13.54%

Run 2: Report of Copa — Data Link

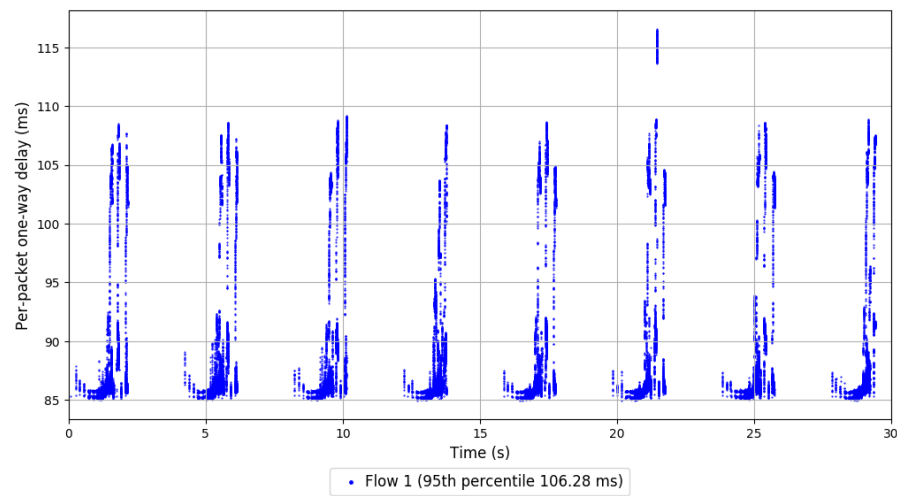
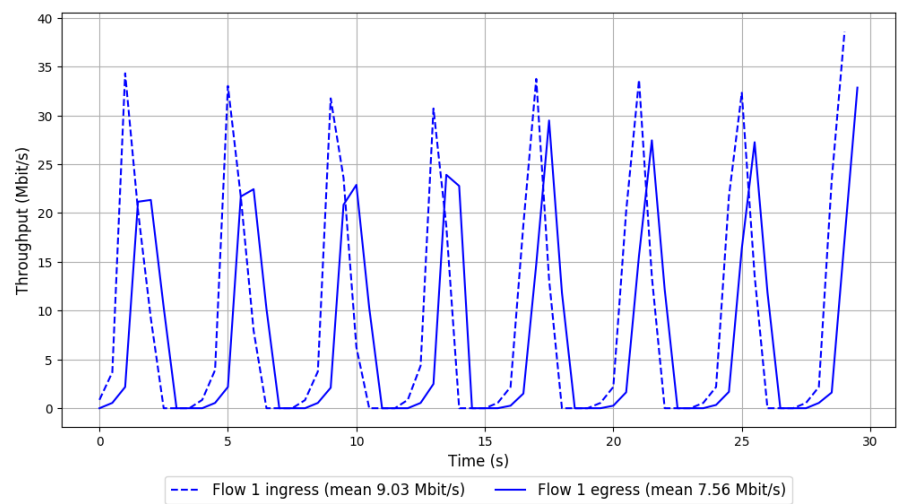


Run 3: Statistics of Copa

Start at: 2018-07-17 10:09:51
End at: 2018-07-17 10:10:21
Local clock offset: -5.847 ms
Remote clock offset: 1.188 ms

Below is generated by plot.py at 2018-07-17 13:36:47
Datalink statistics
-- Total of 1 flow:
Average throughput: 7.56 Mbit/s
95th percentile per-packet one-way delay: 106.284 ms
Loss rate: 16.27%
-- Flow 1:
Average throughput: 7.56 Mbit/s
95th percentile per-packet one-way delay: 106.284 ms
Loss rate: 16.27%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-07-17 10:35:37

End at: 2018-07-17 10:36:07

Local clock offset: -0.089 ms

Remote clock offset: 1.108 ms

Below is generated by plot.py at 2018-07-17 13:36:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 19.25 Mbit/s

95th percentile per-packet one-way delay: 117.052 ms

Loss rate: 2.94%

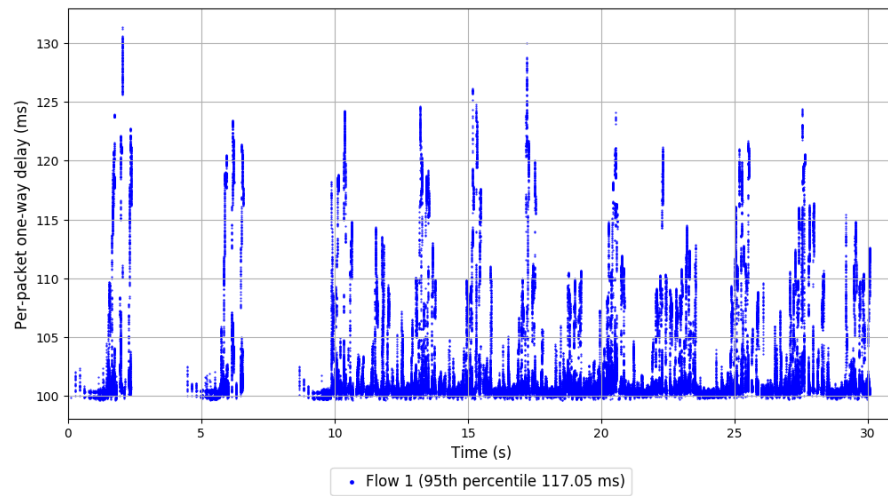
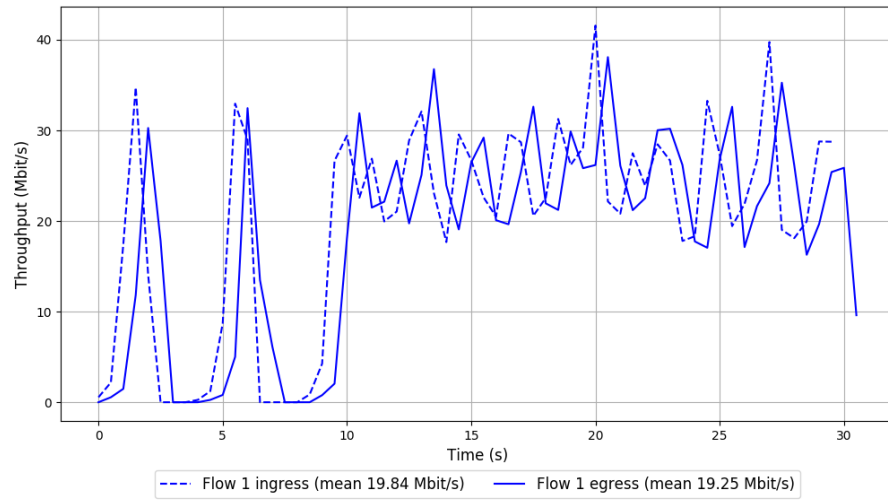
-- Flow 1:

Average throughput: 19.25 Mbit/s

95th percentile per-packet one-way delay: 117.052 ms

Loss rate: 2.94%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-07-17 11:01:30

End at: 2018-07-17 11:02:00

Local clock offset: -9.384 ms

Remote clock offset: 0.964 ms

Below is generated by plot.py at 2018-07-17 13:36:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 10.25 Mbit/s

95th percentile per-packet one-way delay: 119.679 ms

Loss rate: 12.69%

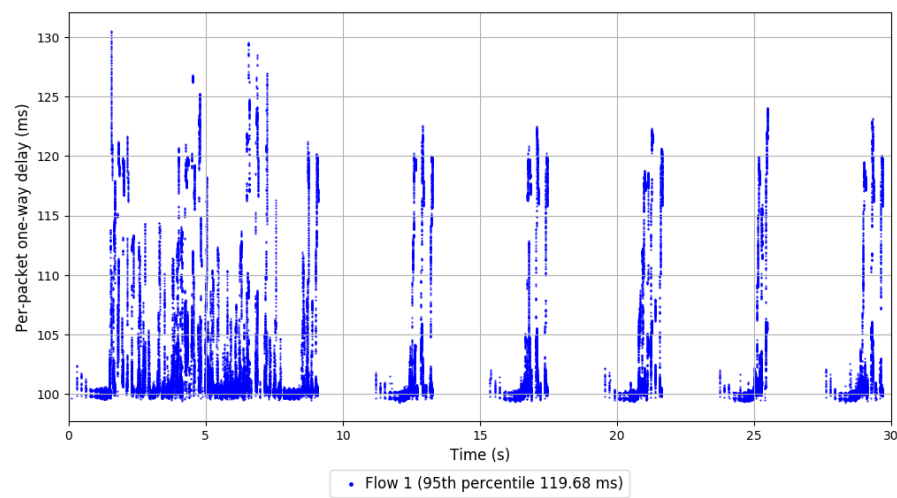
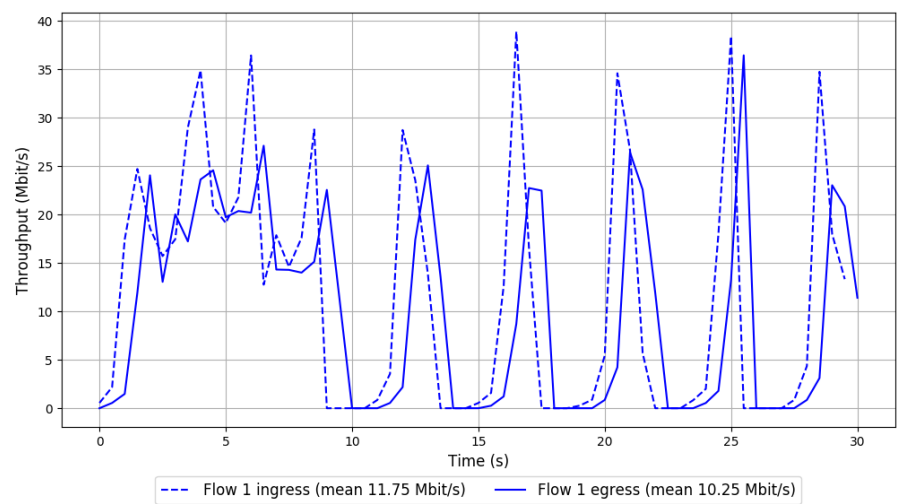
-- Flow 1:

Average throughput: 10.25 Mbit/s

95th percentile per-packet one-way delay: 119.679 ms

Loss rate: 12.69%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-07-17 11:29:26

End at: 2018-07-17 11:29:56

Local clock offset: -6.179 ms

Remote clock offset: 0.719 ms

Below is generated by plot.py at 2018-07-17 13:36:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.49 Mbit/s

95th percentile per-packet one-way delay: 121.578 ms

Loss rate: 20.14%

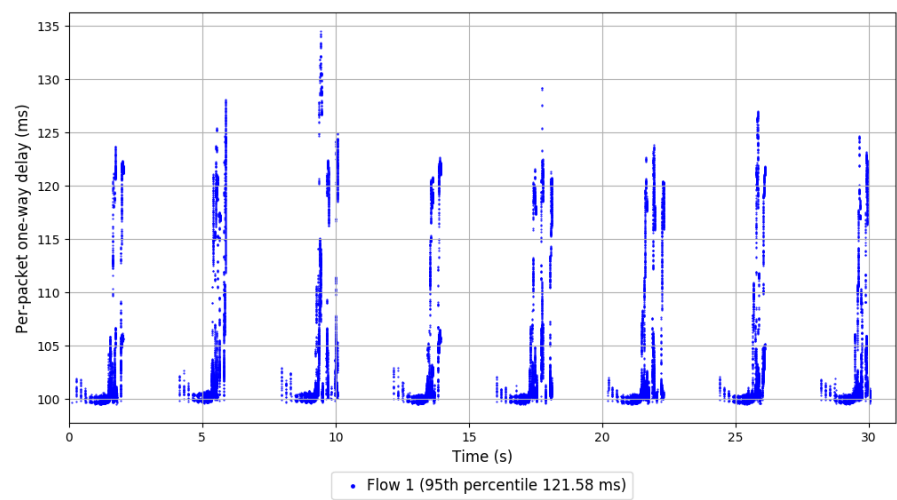
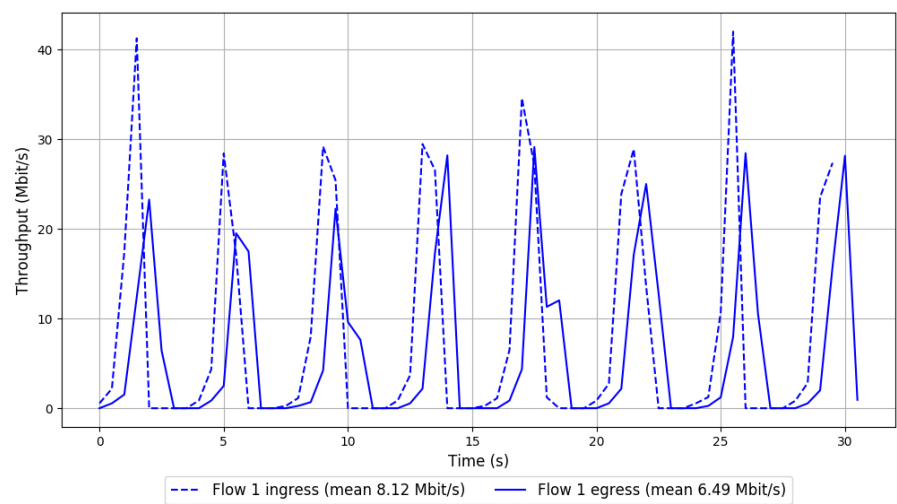
-- Flow 1:

Average throughput: 6.49 Mbit/s

95th percentile per-packet one-way delay: 121.578 ms

Loss rate: 20.14%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-07-17 12:01:35

End at: 2018-07-17 12:02:05

Local clock offset: 2.422 ms

Remote clock offset: 0.491 ms

Below is generated by plot.py at 2018-07-17 13:36:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 16.19 Mbit/s

95th percentile per-packet one-way delay: 119.261 ms

Loss rate: 6.82%

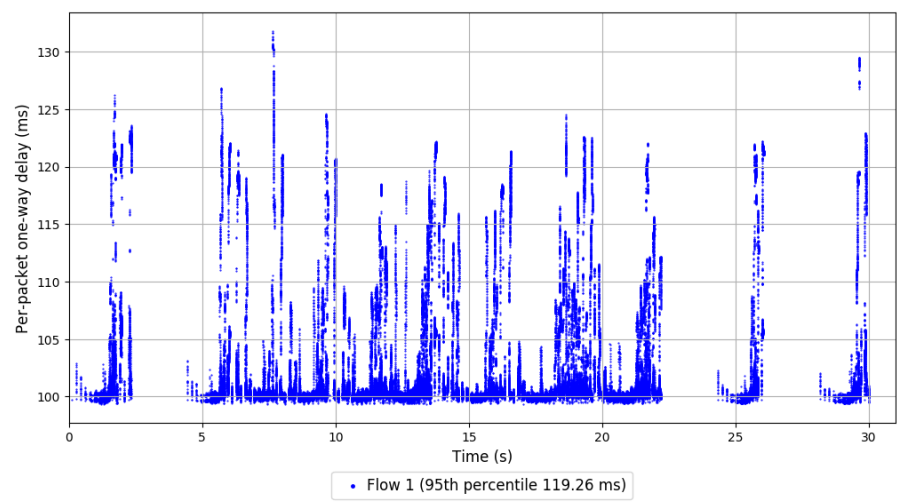
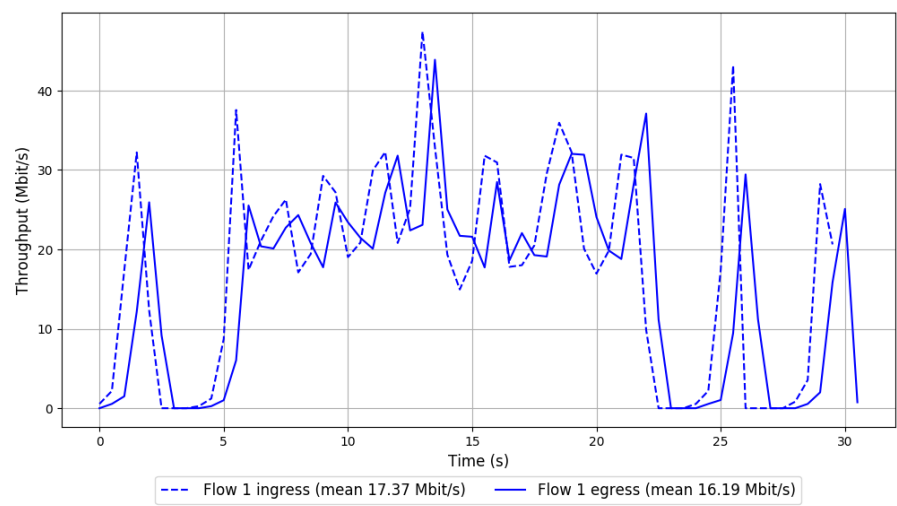
-- Flow 1:

Average throughput: 16.19 Mbit/s

95th percentile per-packet one-way delay: 119.261 ms

Loss rate: 6.82%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-07-17 12:32:58

End at: 2018-07-17 12:33:28

Local clock offset: 4.613 ms

Remote clock offset: 0.48 ms

Below is generated by plot.py at 2018-07-17 13:36:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.53 Mbit/s

95th percentile per-packet one-way delay: 122.312 ms

Loss rate: 18.21%

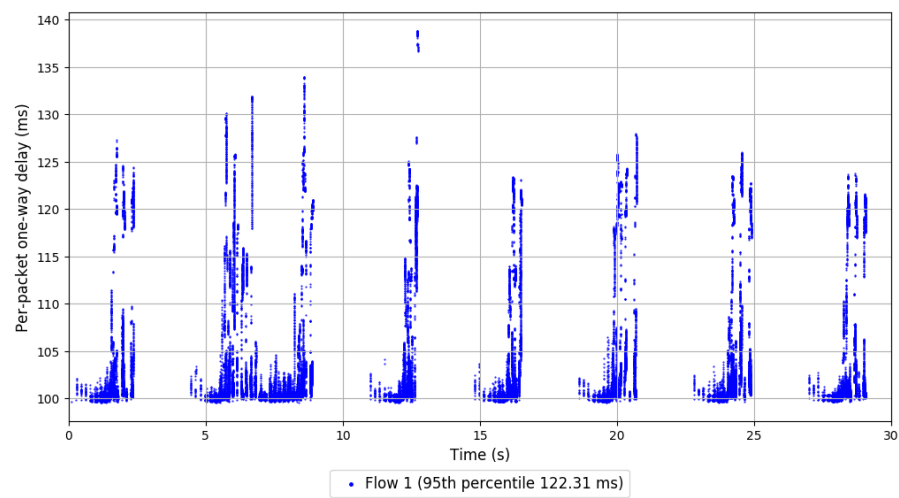
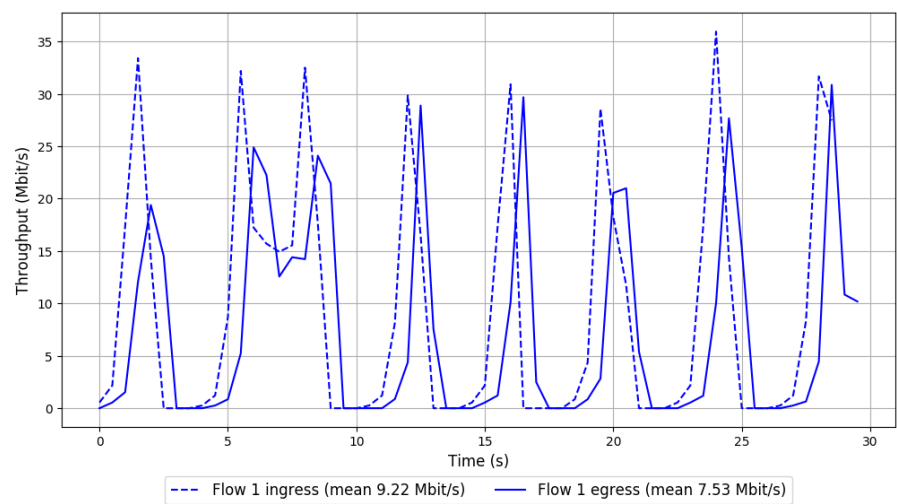
-- Flow 1:

Average throughput: 7.53 Mbit/s

95th percentile per-packet one-way delay: 122.312 ms

Loss rate: 18.21%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-07-17 13:03:01

End at: 2018-07-17 13:03:31

Local clock offset: 7.227 ms

Remote clock offset: 0.276 ms

Below is generated by plot.py at 2018-07-17 13:36:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 9.20 Mbit/s

95th percentile per-packet one-way delay: 120.106 ms

Loss rate: 10.91%

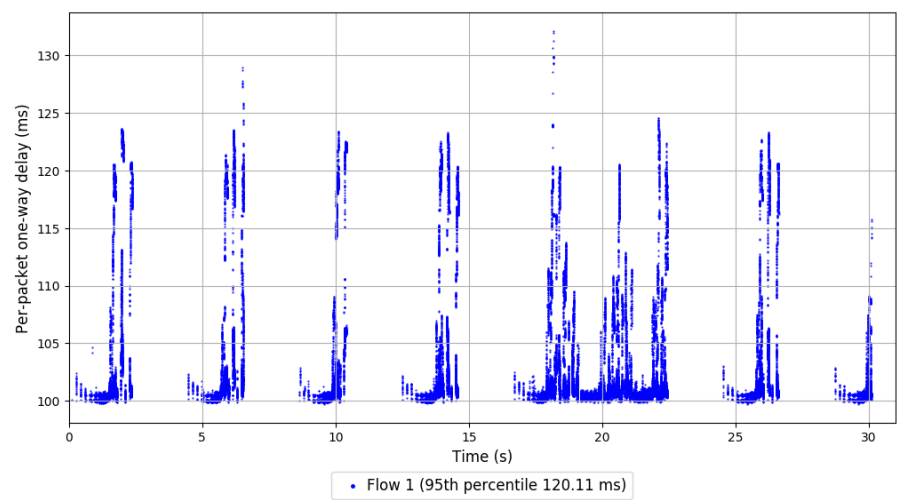
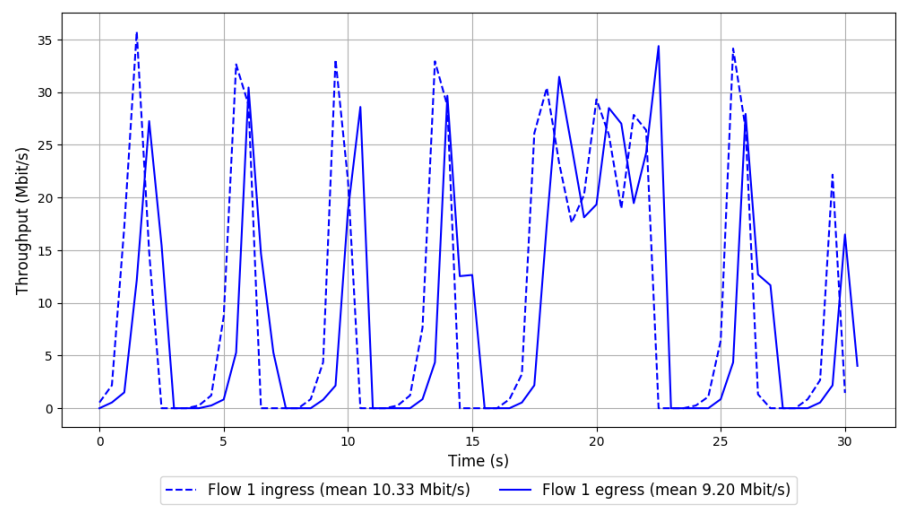
-- Flow 1:

Average throughput: 9.20 Mbit/s

95th percentile per-packet one-way delay: 120.106 ms

Loss rate: 10.91%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-07-17 13:30:15

End at: 2018-07-17 13:30:45

Local clock offset: 3.313 ms

Remote clock offset: 0.001 ms

Below is generated by plot.py at 2018-07-17 13:36:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.23 Mbit/s

95th percentile per-packet one-way delay: 113.211 ms

Loss rate: 4.48%

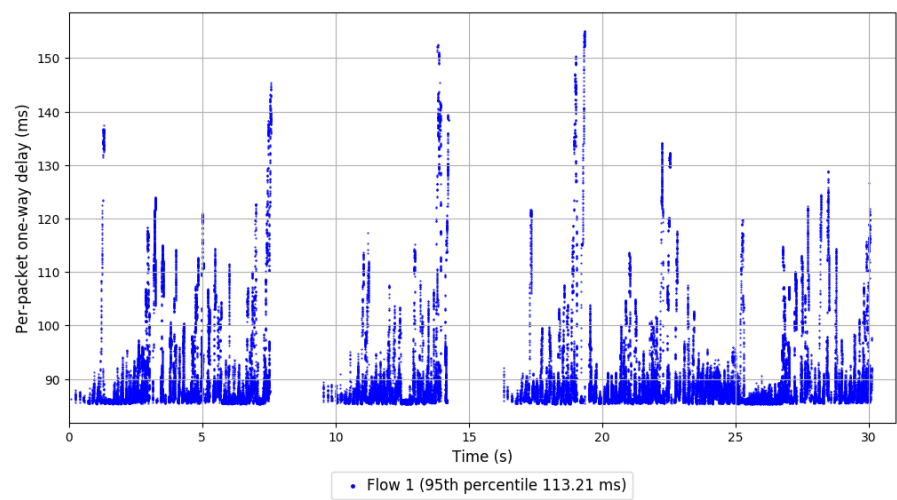
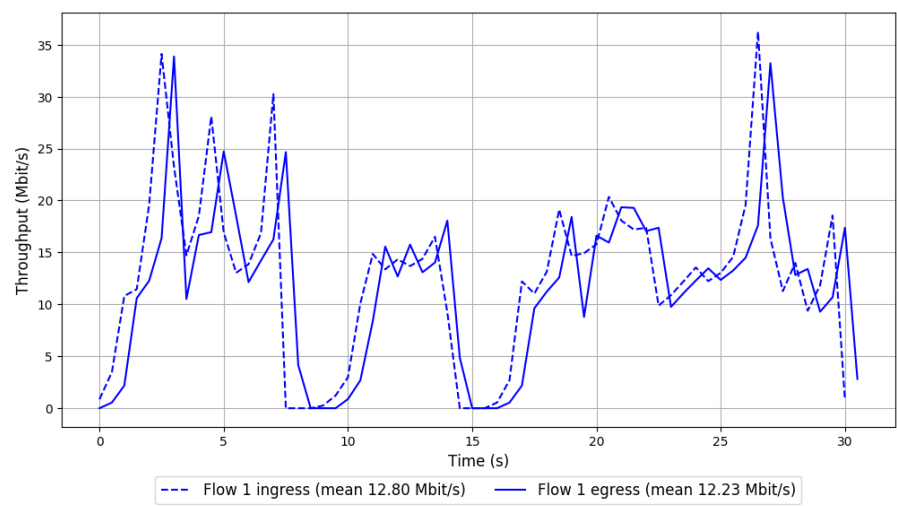
-- Flow 1:

Average throughput: 12.23 Mbit/s

95th percentile per-packet one-way delay: 113.211 ms

Loss rate: 4.48%

Run 10: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-07-17 08:54:08

End at: 2018-07-17 08:54:38

Local clock offset: 12.368 ms

Remote clock offset: 0.663 ms

Below is generated by plot.py at 2018-07-17 13:36:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.85 Mbit/s

95th percentile per-packet one-way delay: 103.440 ms

Loss rate: 0.90%

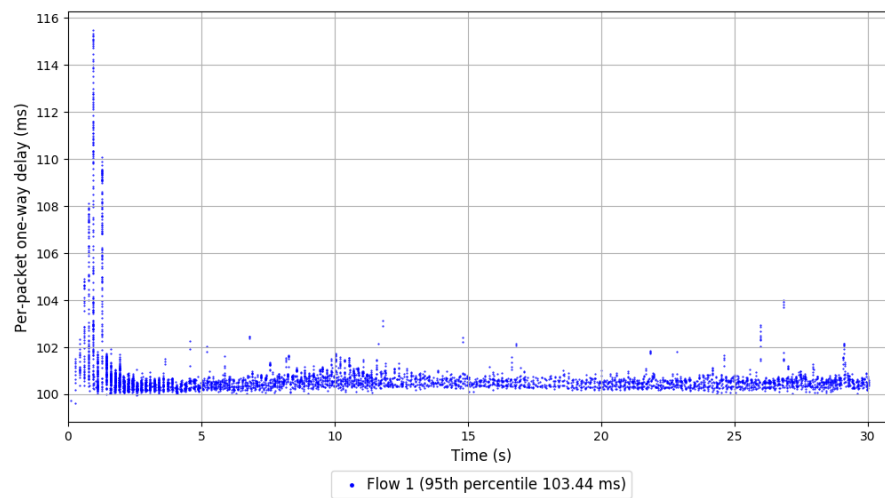
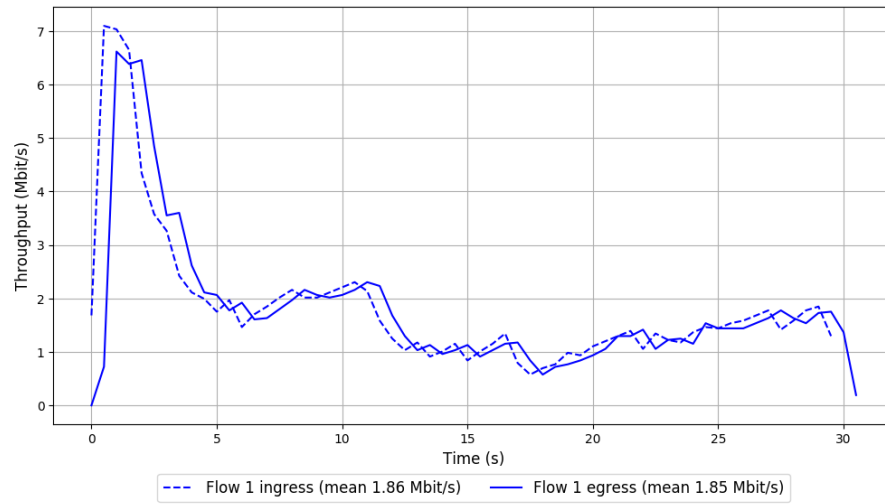
-- Flow 1:

Average throughput: 1.85 Mbit/s

95th percentile per-packet one-way delay: 103.440 ms

Loss rate: 0.90%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-07-17 09:21:13

End at: 2018-07-17 09:21:43

Local clock offset: 7.541 ms

Remote clock offset: 0.722 ms

Below is generated by plot.py at 2018-07-17 13:36:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 14.39 Mbit/s

95th percentile per-packet one-way delay: 88.477 ms

Loss rate: 0.79%

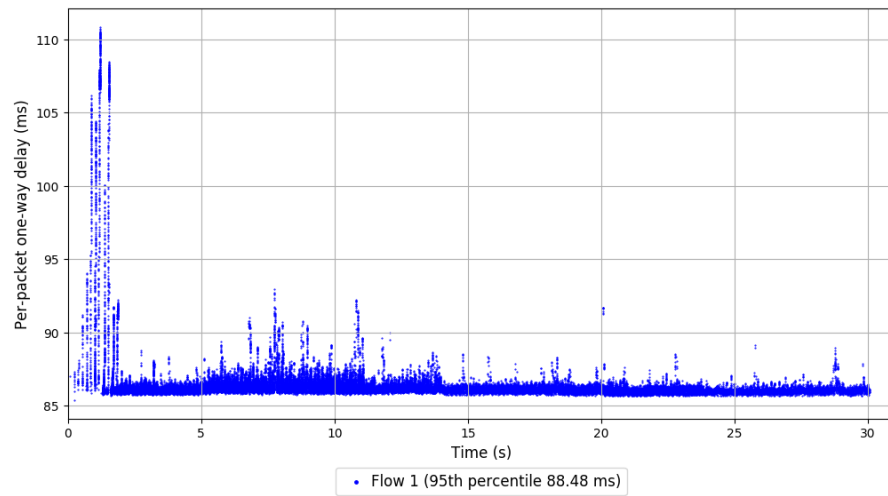
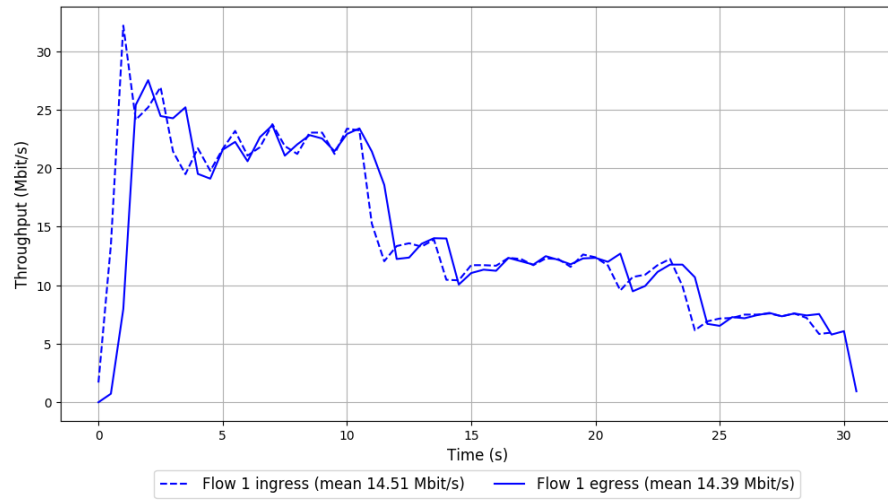
-- Flow 1:

Average throughput: 14.39 Mbit/s

95th percentile per-packet one-way delay: 88.477 ms

Loss rate: 0.79%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-07-17 09:48:37

End at: 2018-07-17 09:49:07

Local clock offset: -0.615 ms

Remote clock offset: 1.08 ms

Below is generated by plot.py at 2018-07-17 13:36:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.74 Mbit/s

95th percentile per-packet one-way delay: 102.350 ms

Loss rate: 1.57%

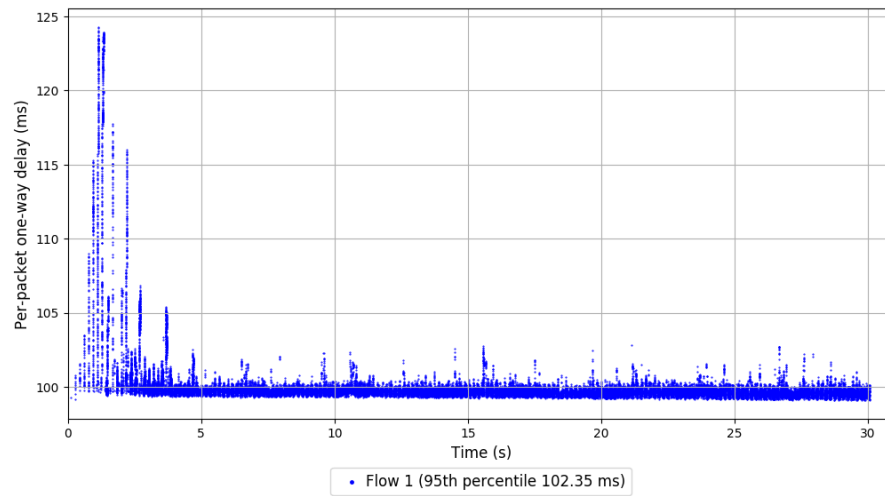
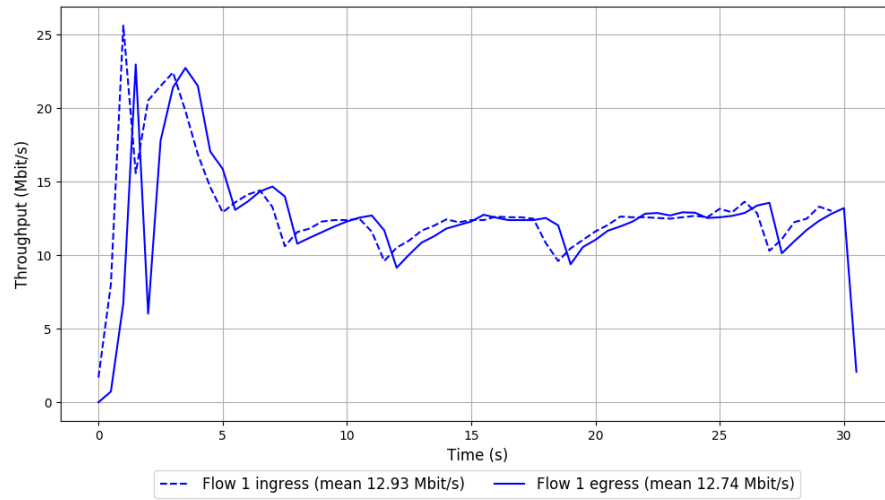
-- Flow 1:

Average throughput: 12.74 Mbit/s

95th percentile per-packet one-way delay: 102.350 ms

Loss rate: 1.57%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-07-17 10:16:00

End at: 2018-07-17 10:16:30

Local clock offset: -3.55 ms

Remote clock offset: 1.237 ms

Below is generated by plot.py at 2018-07-17 13:36:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 10.38 Mbit/s

95th percentile per-packet one-way delay: 101.950 ms

Loss rate: 0.24%

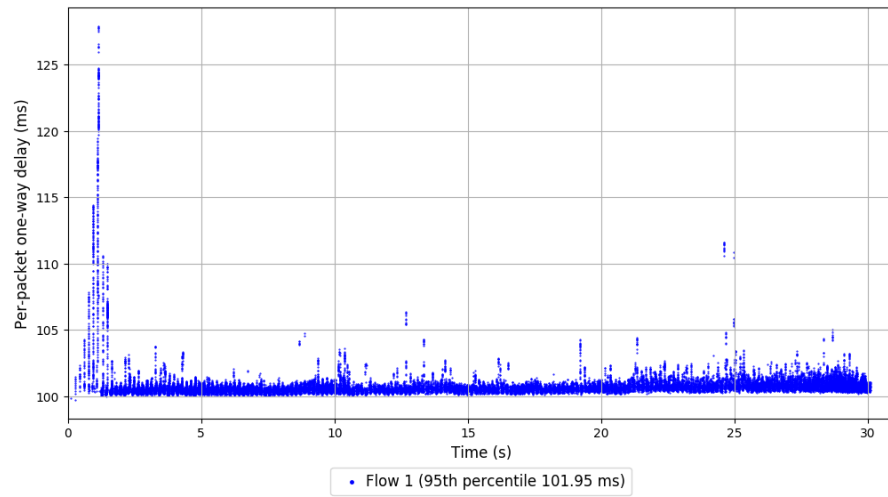
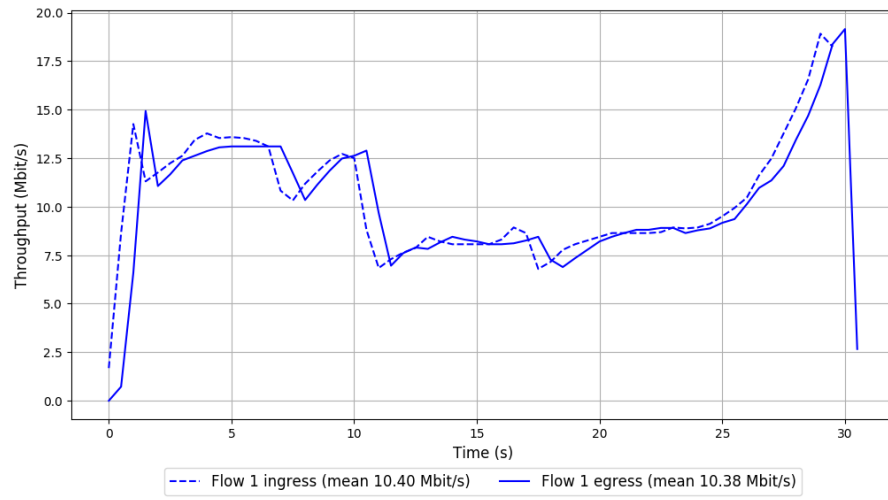
-- Flow 1:

Average throughput: 10.38 Mbit/s

95th percentile per-packet one-way delay: 101.950 ms

Loss rate: 0.24%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-07-17 10:41:43

End at: 2018-07-17 10:42:13

Local clock offset: -0.805 ms

Remote clock offset: 1.134 ms

Below is generated by plot.py at 2018-07-17 13:36:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 10.82 Mbit/s

95th percentile per-packet one-way delay: 86.543 ms

Loss rate: 0.50%

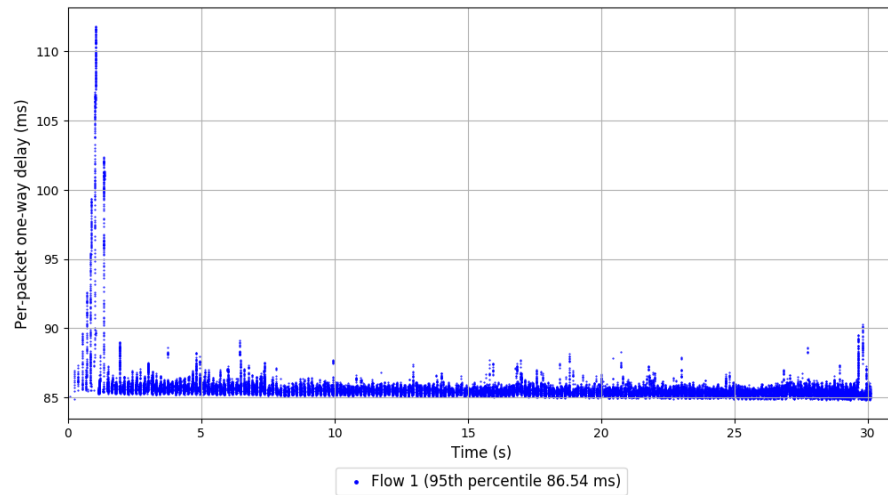
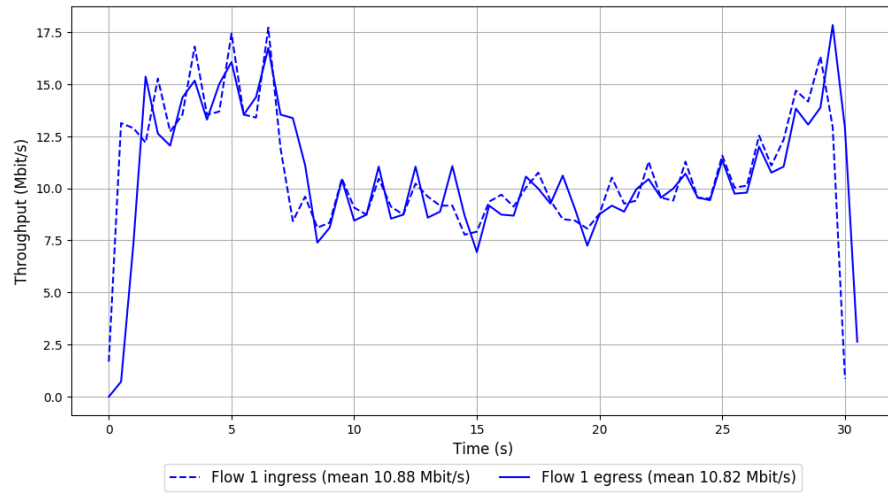
-- Flow 1:

Average throughput: 10.82 Mbit/s

95th percentile per-packet one-way delay: 86.543 ms

Loss rate: 0.50%

Run 5: Report of TCP Cubic — Data Link

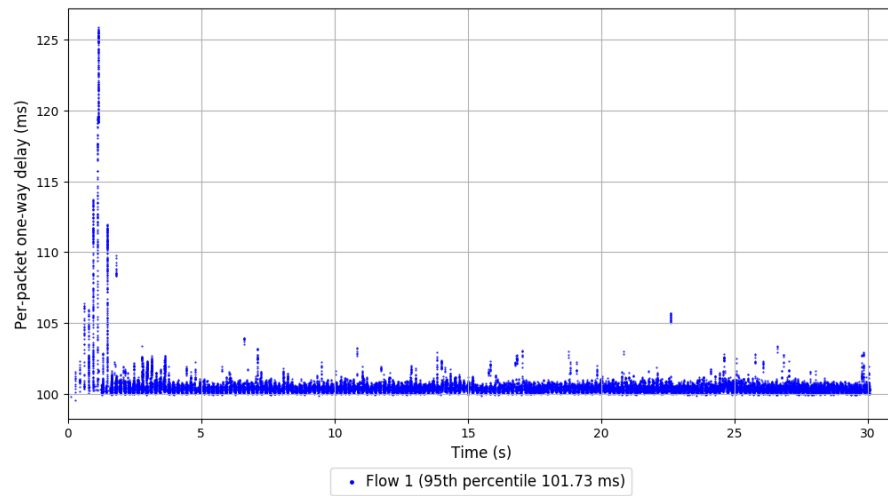
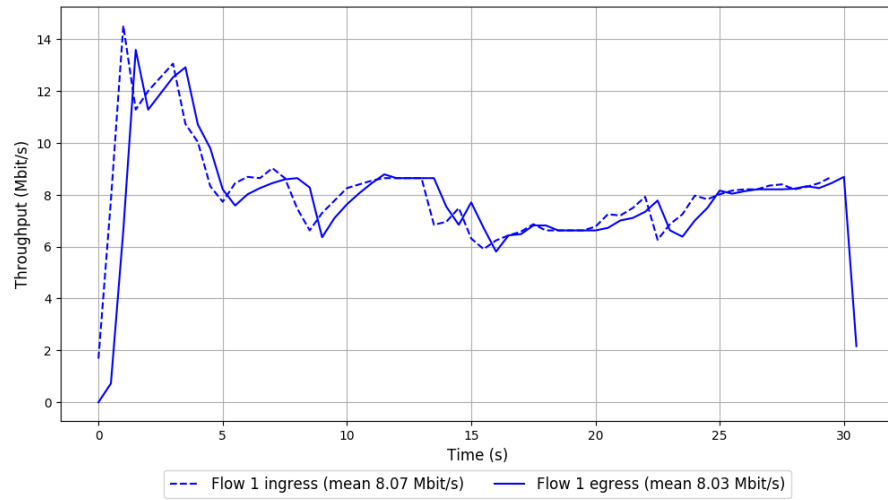


Run 6: Statistics of TCP Cubic

Start at: 2018-07-17 11:07:50
End at: 2018-07-17 11:08:21
Local clock offset: -10.032 ms
Remote clock offset: 0.939 ms

Below is generated by plot.py at 2018-07-17 13:36:48
Datalink statistics
-- Total of 1 flow:
Average throughput: 8.03 Mbit/s
95th percentile per-packet one-way delay: 101.734 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 8.03 Mbit/s
95th percentile per-packet one-way delay: 101.734 ms
Loss rate: 0.56%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-07-17 11:36:58

End at: 2018-07-17 11:37:28

Local clock offset: -5.758 ms

Remote clock offset: 0.717 ms

Below is generated by plot.py at 2018-07-17 13:36:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 14.25 Mbit/s

95th percentile per-packet one-way delay: 101.377 ms

Loss rate: 0.13%

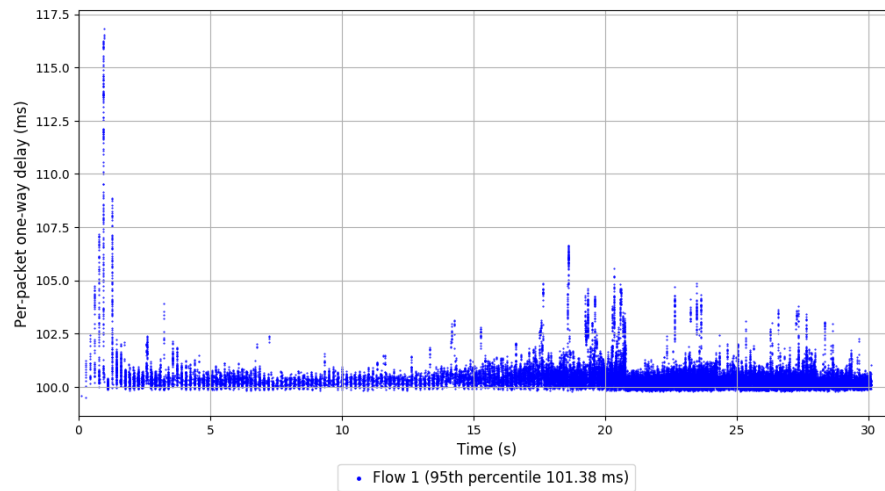
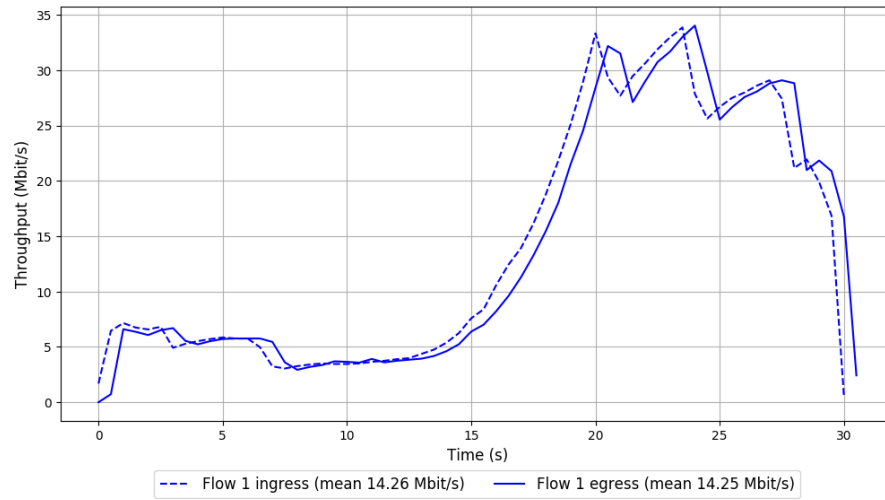
-- Flow 1:

Average throughput: 14.25 Mbit/s

95th percentile per-packet one-way delay: 101.377 ms

Loss rate: 0.13%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-07-17 12:09:16

End at: 2018-07-17 12:09:46

Local clock offset: 3.681 ms

Remote clock offset: 0.626 ms

Below is generated by plot.py at 2018-07-17 13:37:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 17.79 Mbit/s

95th percentile per-packet one-way delay: 110.986 ms

Loss rate: 0.69%

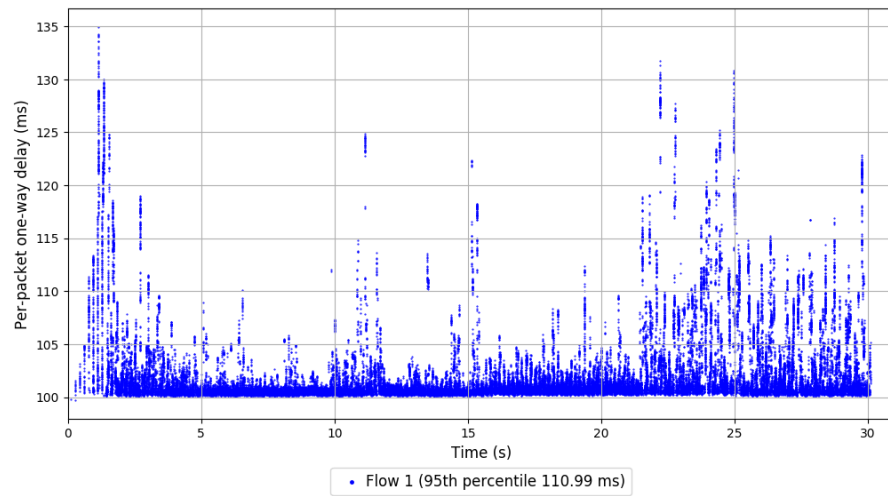
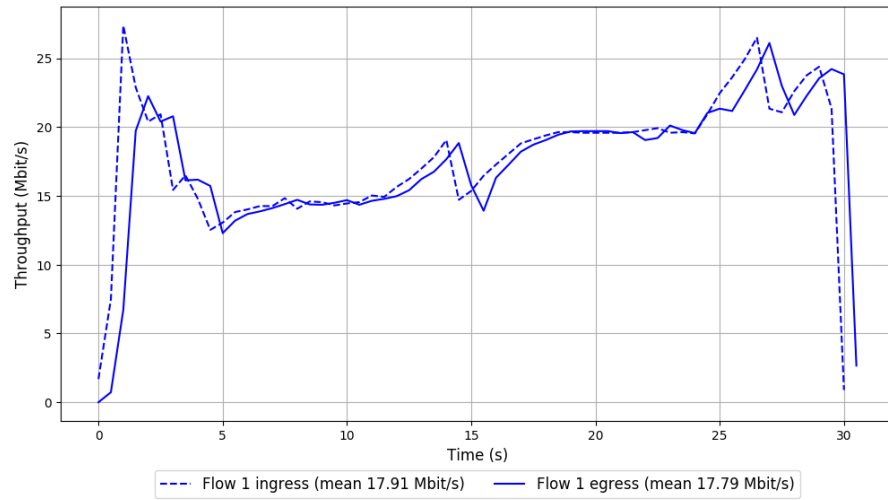
-- Flow 1:

Average throughput: 17.79 Mbit/s

95th percentile per-packet one-way delay: 110.986 ms

Loss rate: 0.69%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-07-17 12:39:59

End at: 2018-07-17 12:40:29

Local clock offset: 5.326 ms

Remote clock offset: 0.44 ms

Below is generated by plot.py at 2018-07-17 13:37:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 18.65 Mbit/s

95th percentile per-packet one-way delay: 87.499 ms

Loss rate: 0.29%

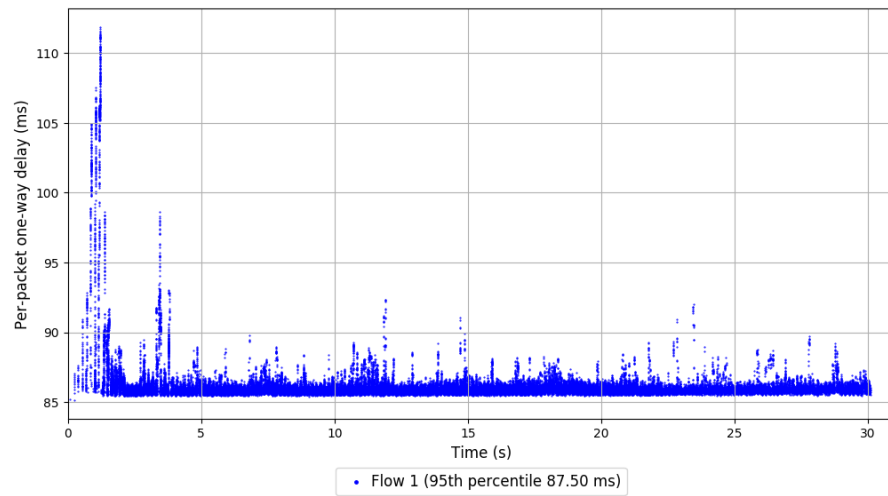
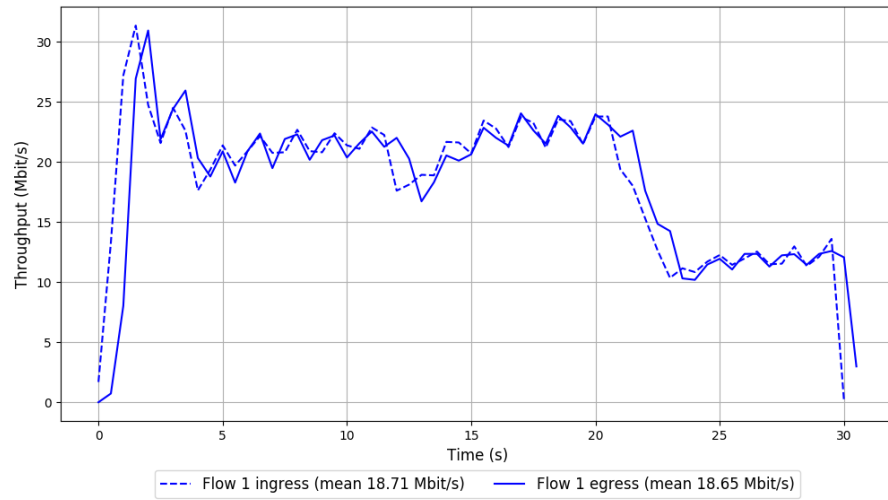
-- Flow 1:

Average throughput: 18.65 Mbit/s

95th percentile per-packet one-way delay: 87.499 ms

Loss rate: 0.29%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-07-17 13:10:19

End at: 2018-07-17 13:10:49

Local clock offset: 7.886 ms

Remote clock offset: 0.188 ms

Below is generated by plot.py at 2018-07-17 13:37:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.44 Mbit/s

95th percentile per-packet one-way delay: 89.147 ms

Loss rate: 0.22%

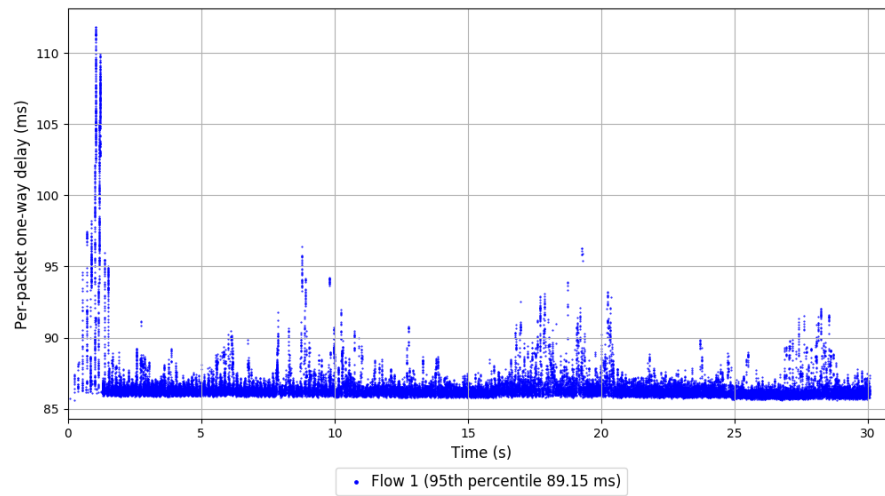
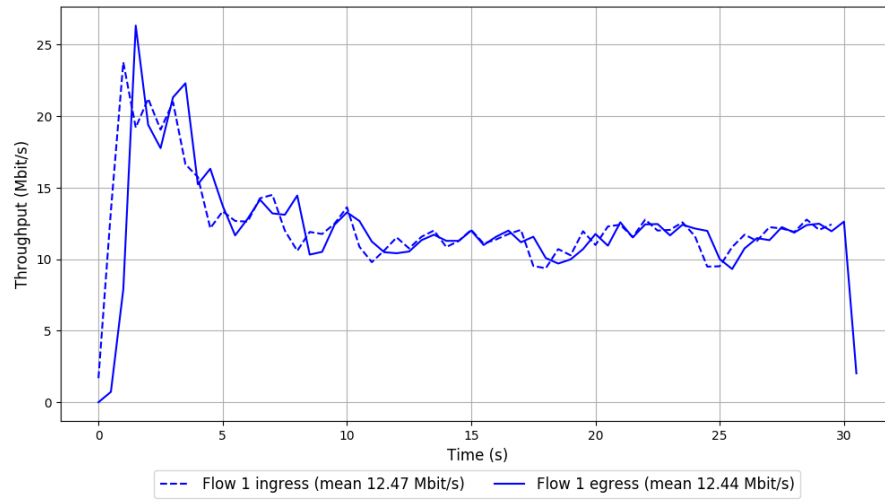
-- Flow 1:

Average throughput: 12.44 Mbit/s

95th percentile per-packet one-way delay: 89.147 ms

Loss rate: 0.22%

Run 10: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2018-07-17 09:17:28

End at: 2018-07-17 09:17:58

Local clock offset: 9.388 ms

Remote clock offset: 0.747 ms

Below is generated by plot.py at 2018-07-17 13:37:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 52.33 Mbit/s

95th percentile per-packet one-way delay: 103.091 ms

Loss rate: 28.35%

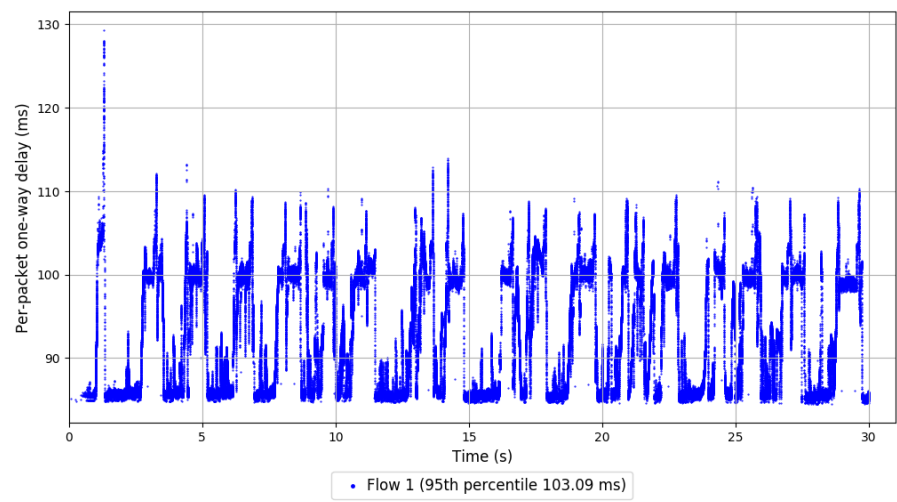
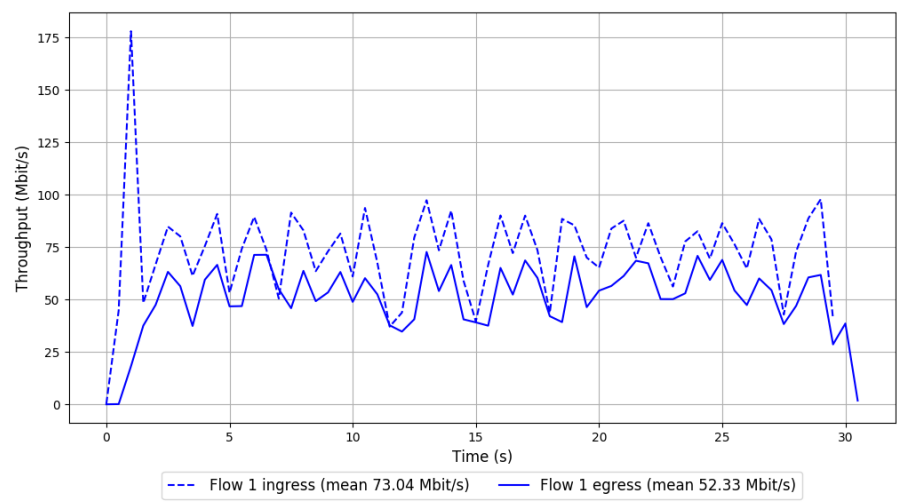
-- Flow 1:

Average throughput: 52.33 Mbit/s

95th percentile per-packet one-way delay: 103.091 ms

Loss rate: 28.35%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-07-17 09:44:36

End at: 2018-07-17 09:45:06

Local clock offset: 2.797 ms

Remote clock offset: 0.964 ms

Below is generated by plot.py at 2018-07-17 13:37:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 52.69 Mbit/s

95th percentile per-packet one-way delay: 116.561 ms

Loss rate: 29.71%

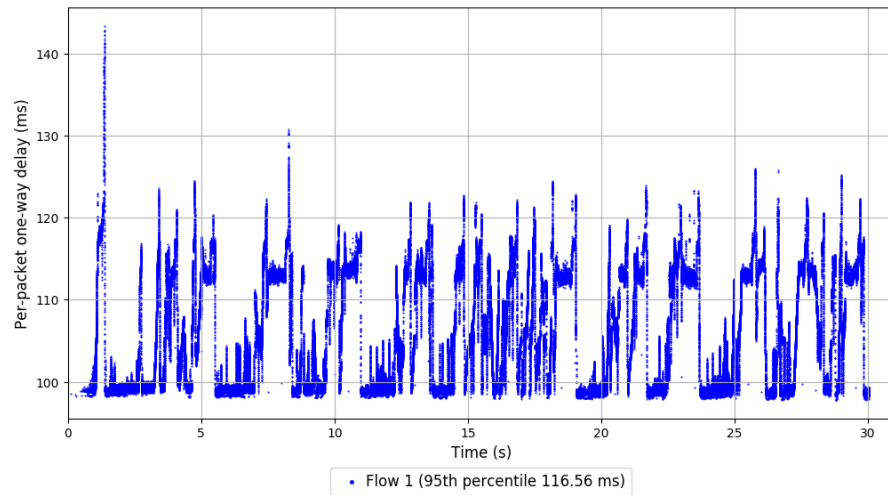
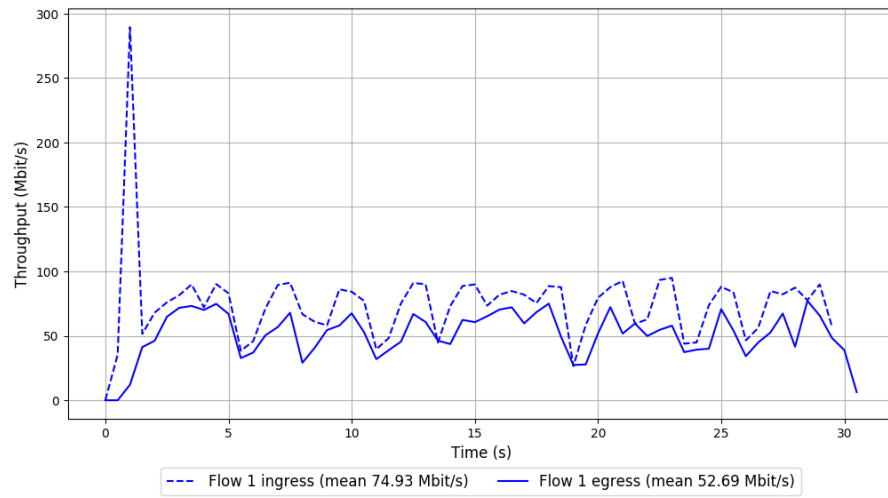
-- Flow 1:

Average throughput: 52.69 Mbit/s

95th percentile per-packet one-way delay: 116.561 ms

Loss rate: 29.71%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-07-17 10:12:28

End at: 2018-07-17 10:12:58

Local clock offset: -5.182 ms

Remote clock offset: 1.254 ms

Below is generated by plot.py at 2018-07-17 13:37:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 47.72 Mbit/s

95th percentile per-packet one-way delay: 103.032 ms

Loss rate: 31.12%

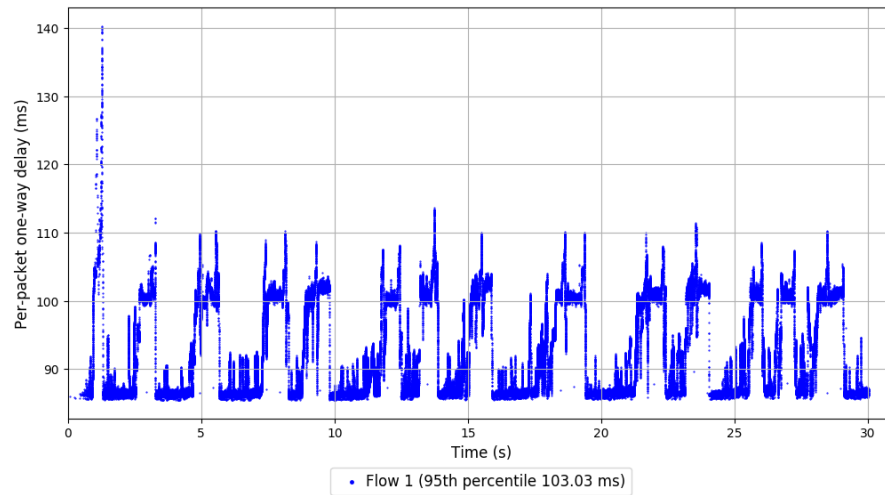
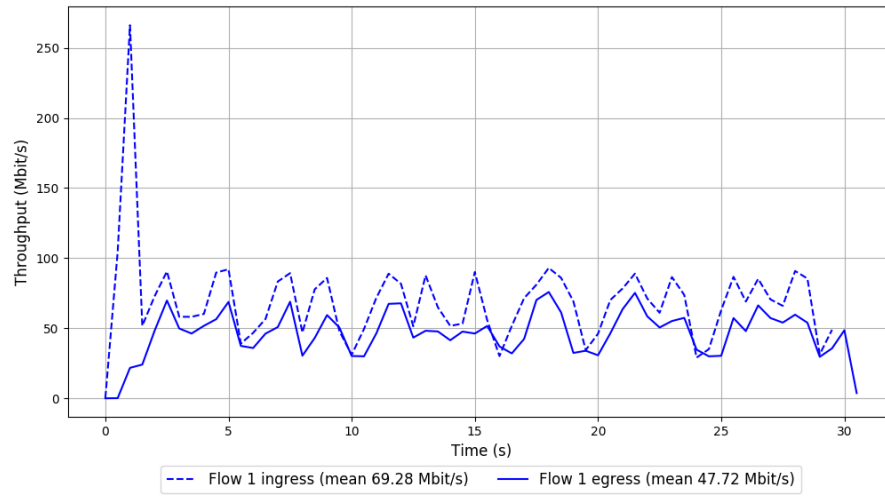
-- Flow 1:

Average throughput: 47.72 Mbit/s

95th percentile per-packet one-way delay: 103.032 ms

Loss rate: 31.12%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-07-17 10:38:23

End at: 2018-07-17 10:38:53

Local clock offset: 0.047 ms

Remote clock offset: 1.165 ms

Below is generated by plot.py at 2018-07-17 13:37:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 47.54 Mbit/s

95th percentile per-packet one-way delay: 117.545 ms

Loss rate: 32.03%

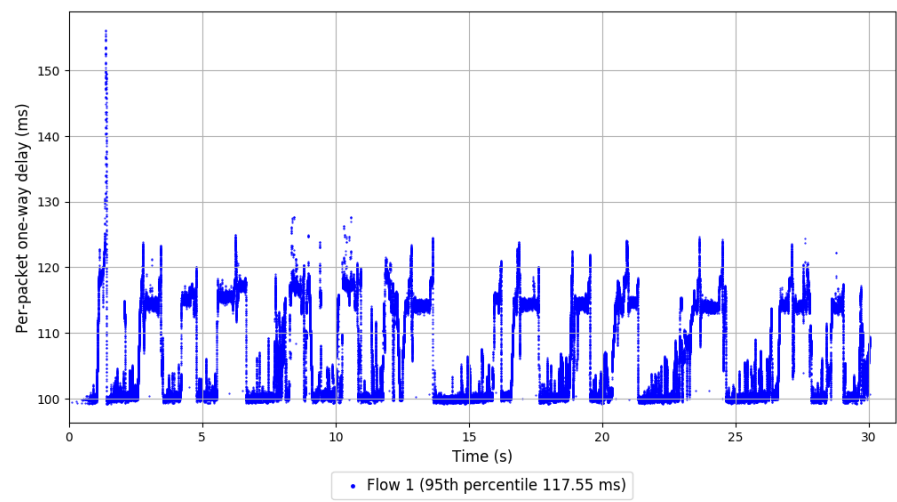
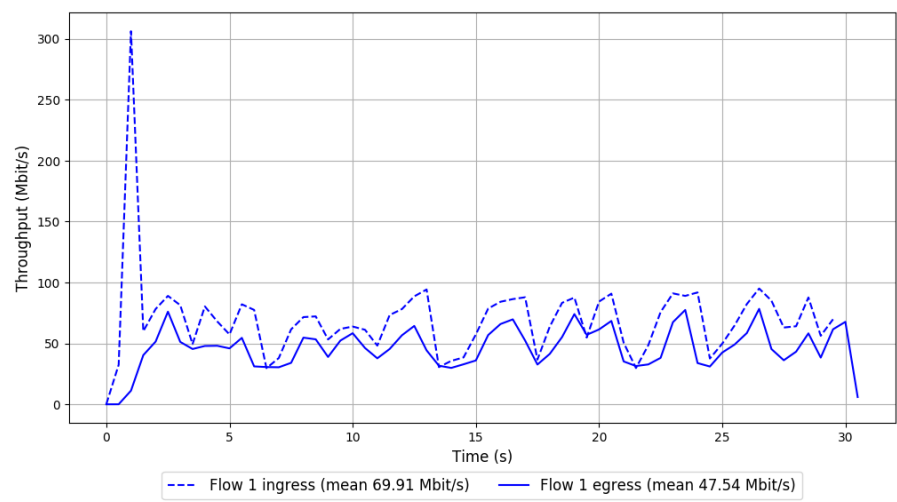
-- Flow 1:

Average throughput: 47.54 Mbit/s

95th percentile per-packet one-way delay: 117.545 ms

Loss rate: 32.03%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-07-17 11:04:06

End at: 2018-07-17 11:04:36

Local clock offset: -9.674 ms

Remote clock offset: 0.974 ms

Below is generated by plot.py at 2018-07-17 13:37:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 49.70 Mbit/s

95th percentile per-packet one-way delay: 103.391 ms

Loss rate: 30.05%

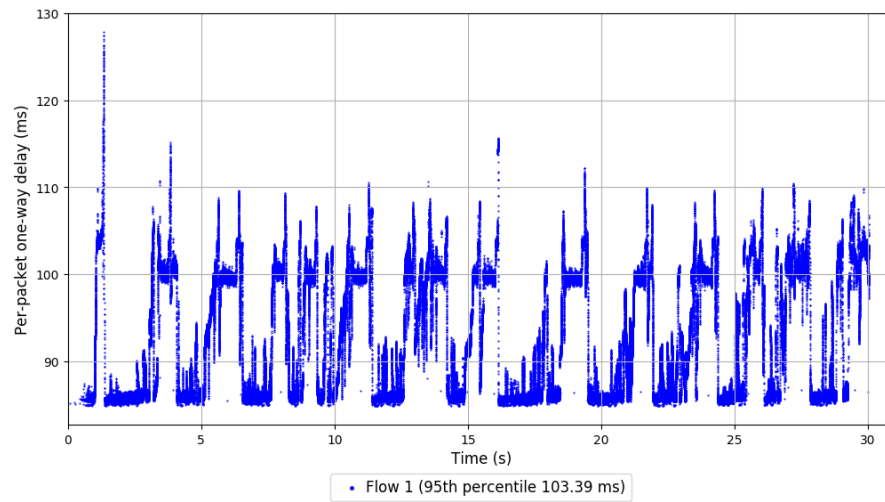
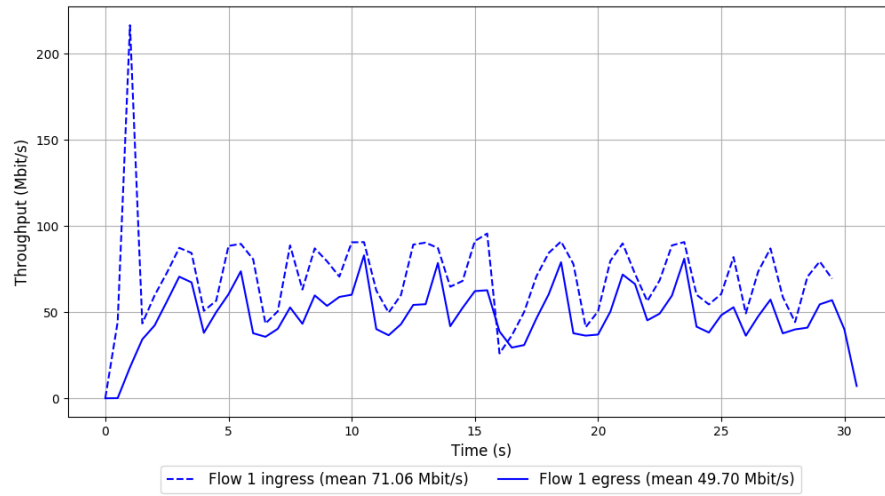
-- Flow 1:

Average throughput: 49.70 Mbit/s

95th percentile per-packet one-way delay: 103.391 ms

Loss rate: 30.05%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-07-17 11:32:10

End at: 2018-07-17 11:32:40

Local clock offset: -5.9 ms

Remote clock offset: 0.74 ms

Below is generated by plot.py at 2018-07-17 13:37:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 48.54 Mbit/s

95th percentile per-packet one-way delay: 103.120 ms

Loss rate: 30.25%

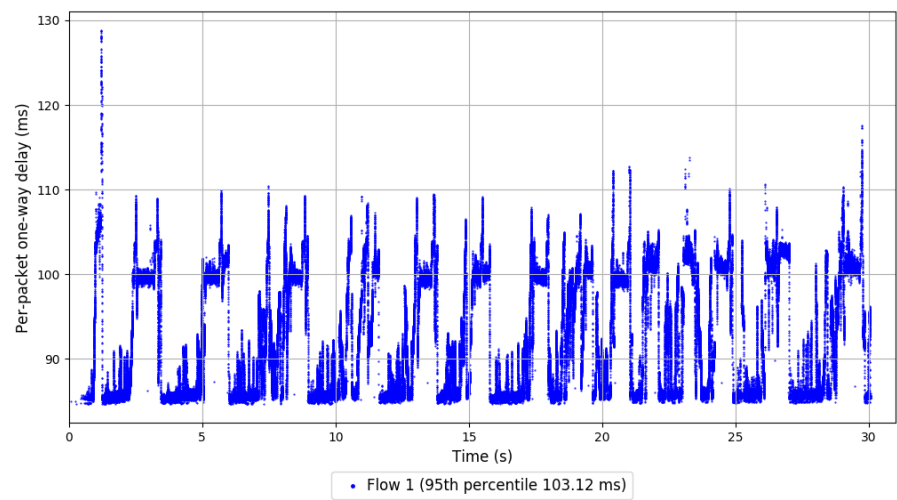
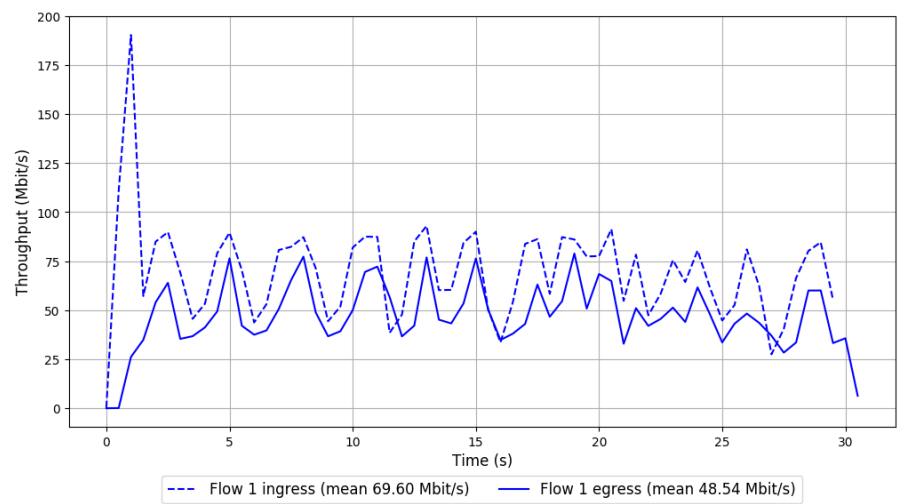
-- Flow 1:

Average throughput: 48.54 Mbit/s

95th percentile per-packet one-way delay: 103.120 ms

Loss rate: 30.25%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-07-17 12:04:32

End at: 2018-07-17 12:05:02

Local clock offset: 2.857 ms

Remote clock offset: 0.558 ms

Below is generated by plot.py at 2018-07-17 13:37:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 46.33 Mbit/s

95th percentile per-packet one-way delay: 118.019 ms

Loss rate: 32.84%

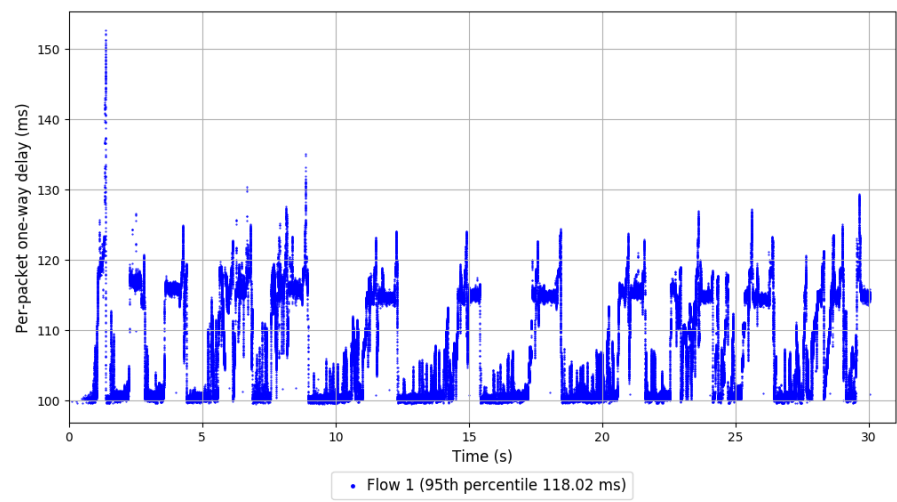
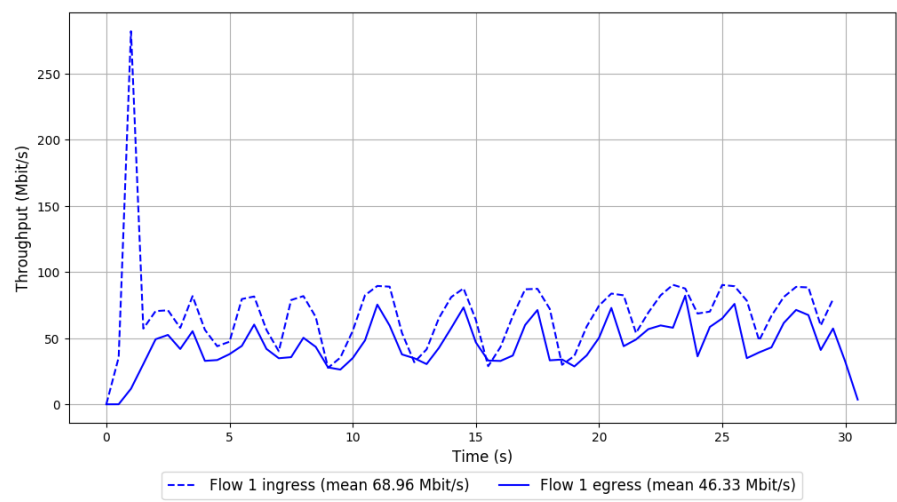
-- Flow 1:

Average throughput: 46.33 Mbit/s

95th percentile per-packet one-way delay: 118.019 ms

Loss rate: 32.84%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-07-17 12:35:42

End at: 2018-07-17 12:36:12

Local clock offset: 4.913 ms

Remote clock offset: 0.377 ms

Below is generated by plot.py at 2018-07-17 13:37:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.65 Mbit/s

95th percentile per-packet one-way delay: 103.562 ms

Loss rate: 27.13%

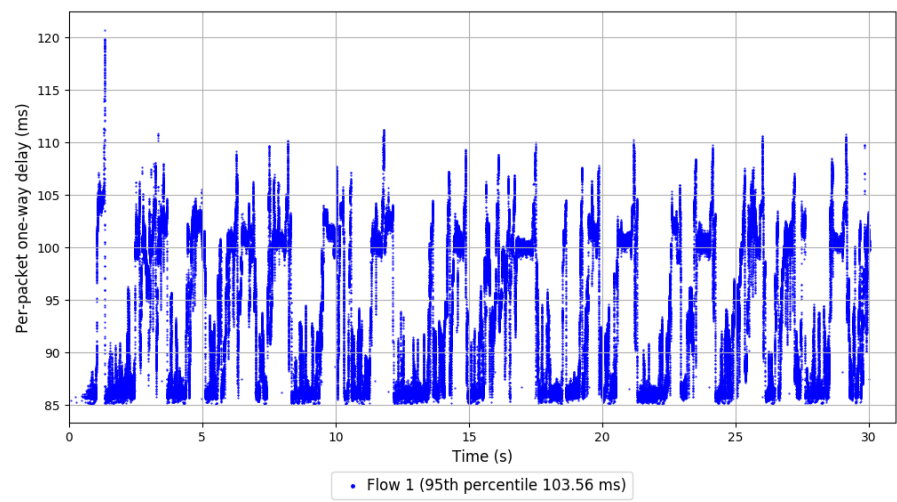
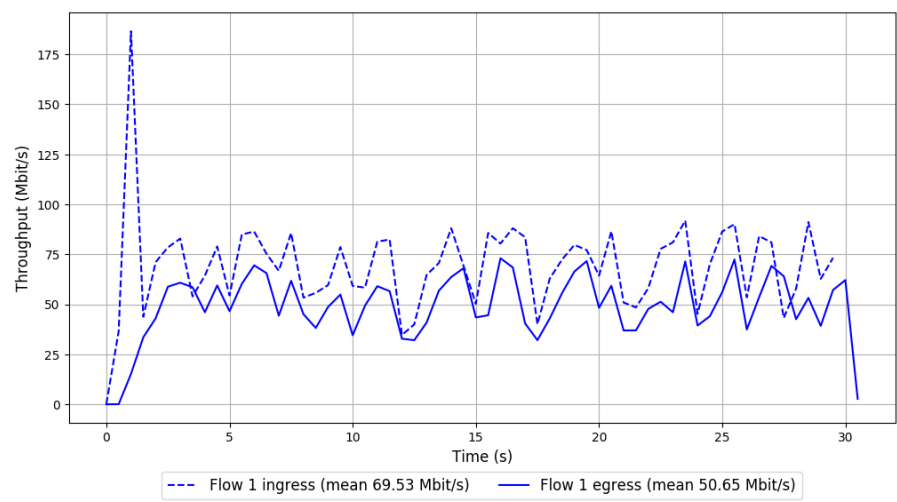
-- Flow 1:

Average throughput: 50.65 Mbit/s

95th percentile per-packet one-way delay: 103.562 ms

Loss rate: 27.13%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-07-17 13:05:48

End at: 2018-07-17 13:06:18

Local clock offset: 7.599 ms

Remote clock offset: 0.177 ms

Below is generated by plot.py at 2018-07-17 13:38:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 49.82 Mbit/s

95th percentile per-packet one-way delay: 117.823 ms

Loss rate: 28.98%

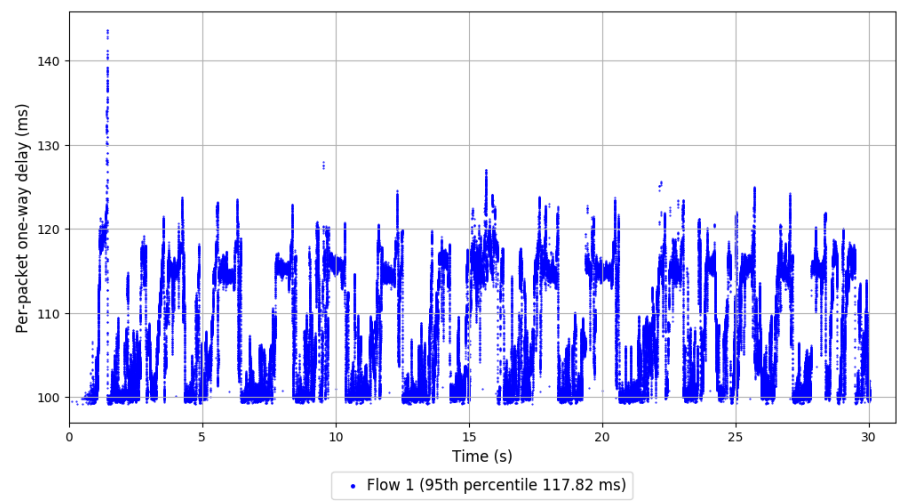
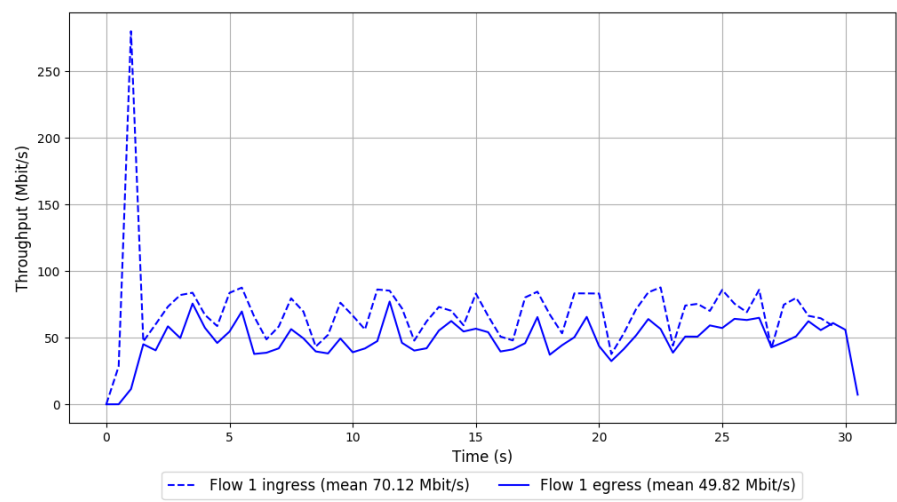
-- Flow 1:

Average throughput: 49.82 Mbit/s

95th percentile per-packet one-way delay: 117.823 ms

Loss rate: 28.98%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-07-17 13:33:02

End at: 2018-07-17 13:33:32

Local clock offset: 3.289 ms

Remote clock offset: 0.091 ms

Below is generated by plot.py at 2018-07-17 13:38:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 40.28 Mbit/s

95th percentile per-packet one-way delay: 108.812 ms

Loss rate: 33.50%

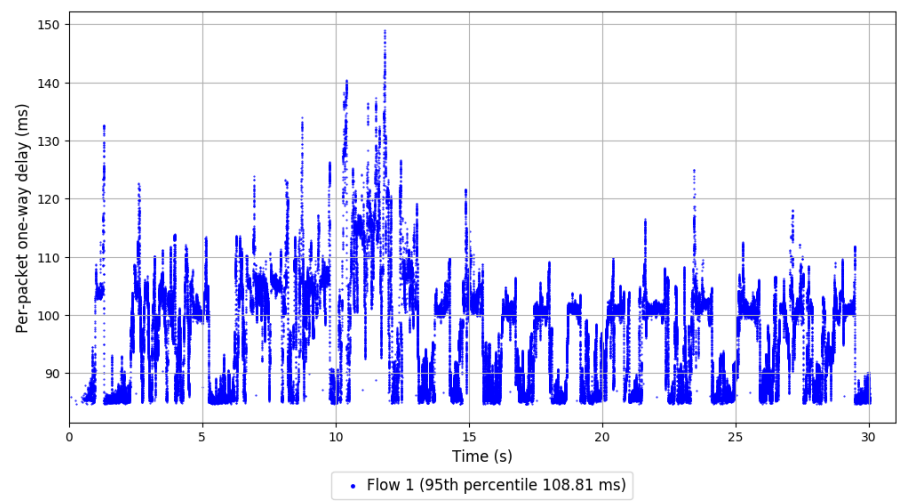
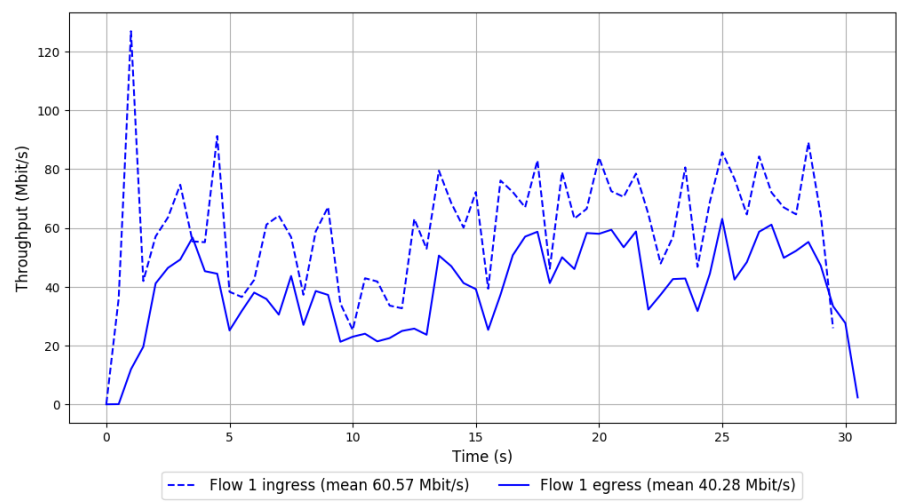
-- Flow 1:

Average throughput: 40.28 Mbit/s

95th percentile per-packet one-way delay: 108.812 ms

Loss rate: 33.50%

Run 10: Report of FillP — Data Link



Run 1: Statistics of FillP-Sheep

Start at: 2018-07-17 08:56:43

End at: 2018-07-17 08:57:13

Local clock offset: 12.634 ms

Remote clock offset: 0.569 ms

Below is generated by plot.py at 2018-07-17 13:38:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 56.65 Mbit/s

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

Loss rate: 29.47%

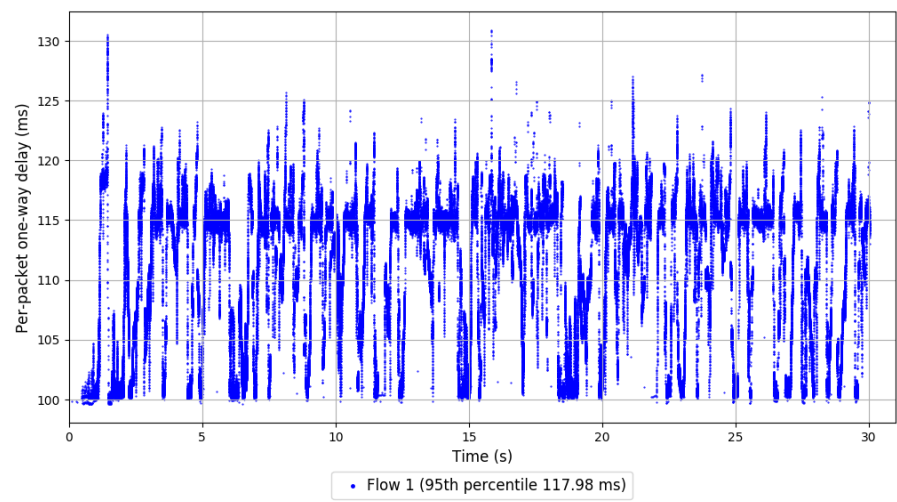
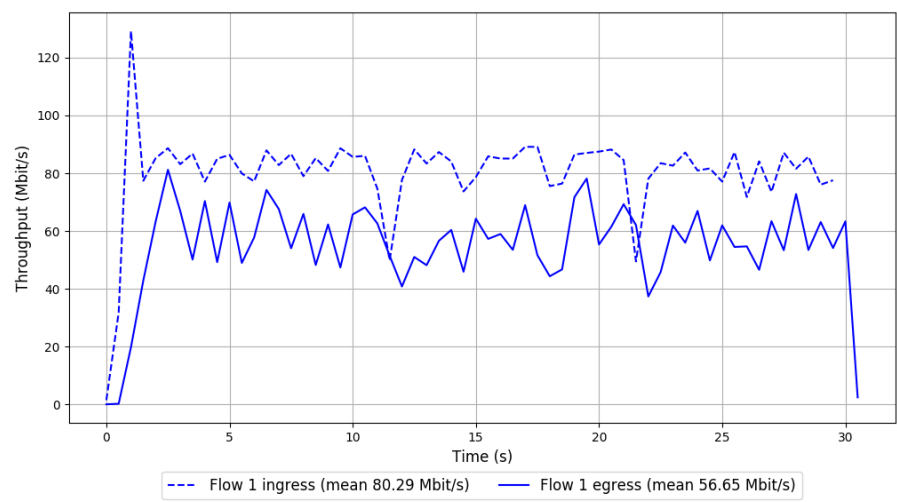
-- Flow 1:

Average throughput: 56.65 Mbit/s

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

Loss rate: 29.47%

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

Start at: 2018-07-17 09:23:58

End at: 2018-07-17 09:24:28

Local clock offset: 6.865 ms

Remote clock offset: 0.727 ms

Below is generated by plot.py at 2018-07-17 13:38:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 53.82 Mbit/s

95th percentile per-packet one-way delay: 118.091 ms

Loss rate: 31.70%

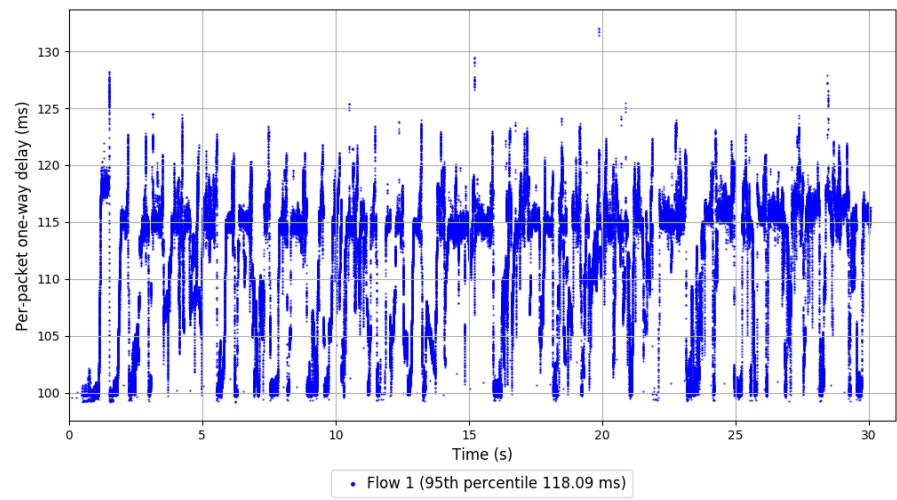
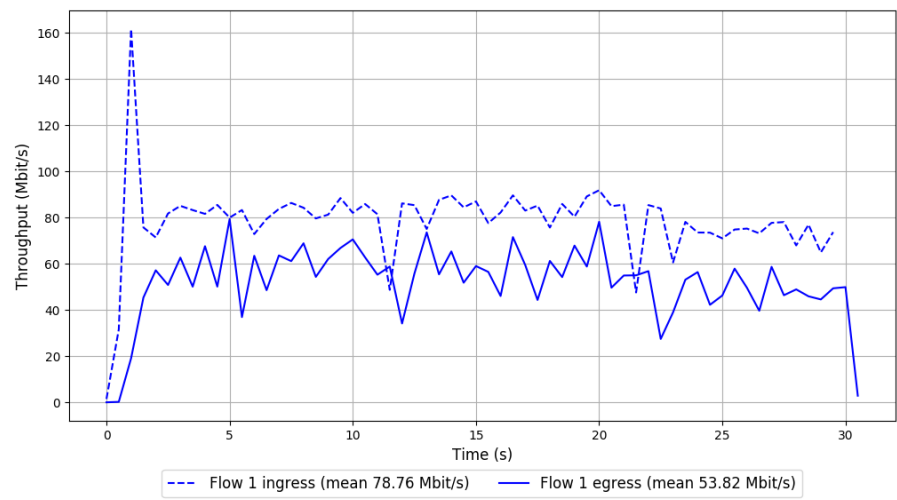
-- Flow 1:

Average throughput: 53.82 Mbit/s

95th percentile per-packet one-way delay: 118.091 ms

Loss rate: 31.70%

Run 2: Report of FillP-Sheep — Data Link



Run 3: Statistics of FillP-Sheep

Start at: 2018-07-17 09:51:25

End at: 2018-07-17 09:51:55

Local clock offset: -2.302 ms

Remote clock offset: 1.073 ms

Below is generated by plot.py at 2018-07-17 13:38:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 56.59 Mbit/s

95th percentile per-packet one-way delay: 117.449 ms

Loss rate: 29.67%

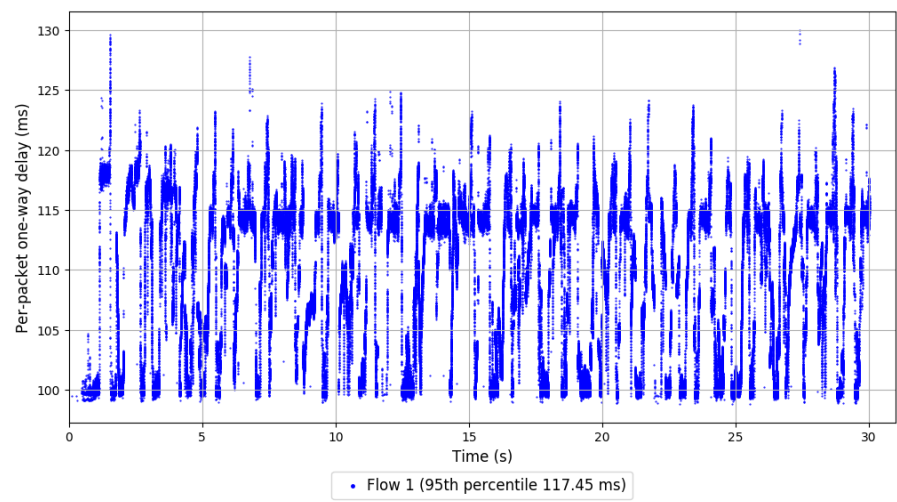
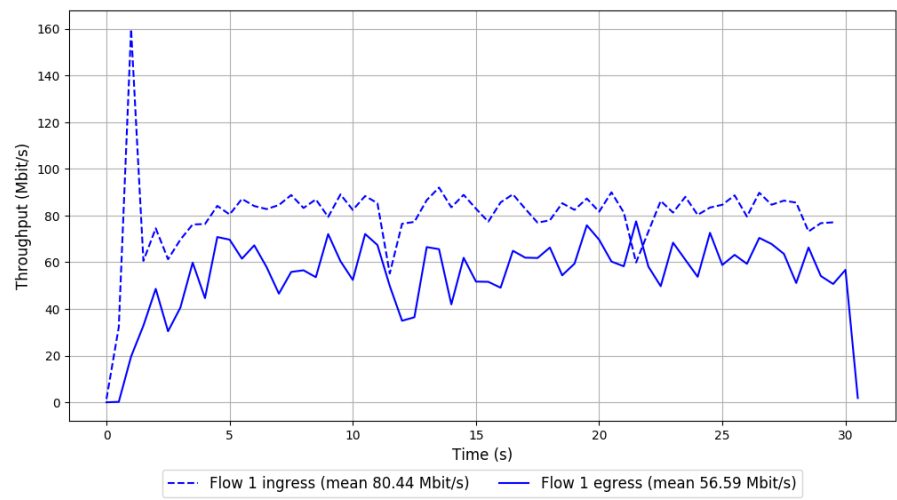
-- Flow 1:

Average throughput: 56.59 Mbit/s

95th percentile per-packet one-way delay: 117.449 ms

Loss rate: 29.67%

Run 3: Report of FillP-Sheep — Data Link



Run 4: Statistics of FillP-Sheep

Start at: 2018-07-17 10:18:42

End at: 2018-07-17 10:19:12

Local clock offset: -2.834 ms

Remote clock offset: 1.173 ms

Below is generated by plot.py at 2018-07-17 13:38:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 58.30 Mbit/s

95th percentile per-packet one-way delay: 118.355 ms

Loss rate: 29.17%

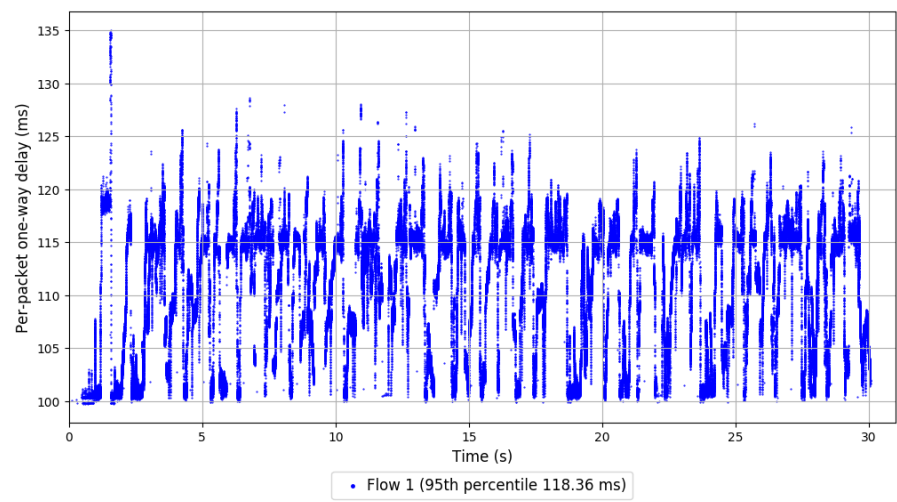
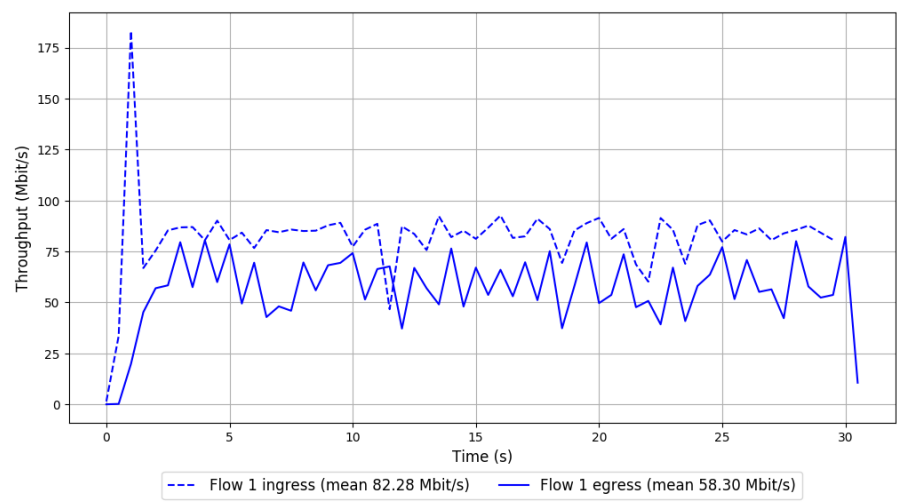
-- Flow 1:

Average throughput: 58.30 Mbit/s

95th percentile per-packet one-way delay: 118.355 ms

Loss rate: 29.17%

Run 4: Report of FillP-Sheep — Data Link



Run 5: Statistics of FillP-Sheep

Start at: 2018-07-17 10:44:25

End at: 2018-07-17 10:44:55

Local clock offset: -2.889 ms

Remote clock offset: 1.08 ms

Below is generated by plot.py at 2018-07-17 13:38:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 56.62 Mbit/s

95th percentile per-packet one-way delay: 103.184 ms

Loss rate: 28.51%

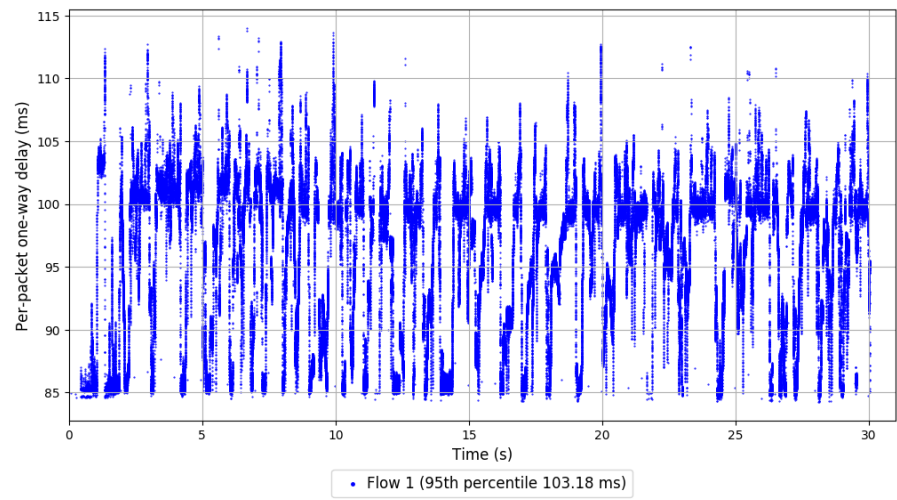
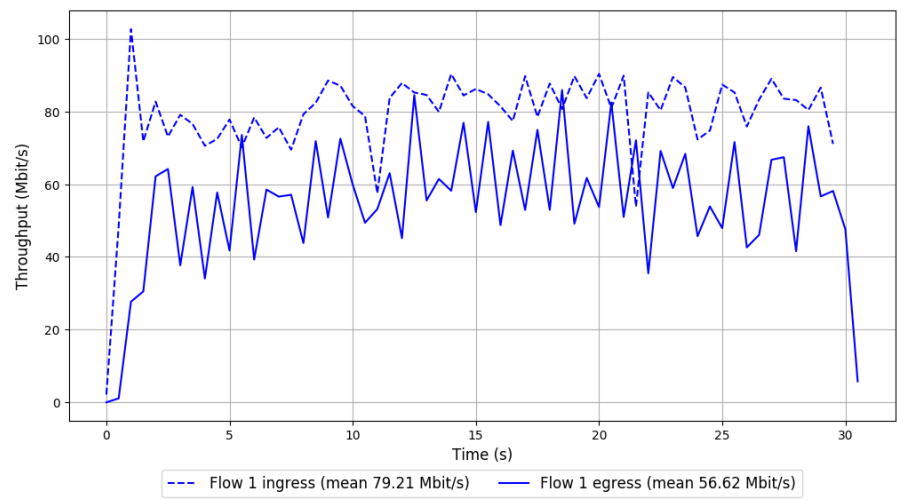
-- Flow 1:

Average throughput: 56.62 Mbit/s

95th percentile per-packet one-way delay: 103.184 ms

Loss rate: 28.51%

Run 5: Report of FillP-Sheep — Data Link



Run 6: Statistics of FillP-Sheep

Start at: 2018-07-17 11:10:37

End at: 2018-07-17 11:11:07

Local clock offset: -10.43 ms

Remote clock offset: 0.957 ms

Below is generated by plot.py at 2018-07-17 13:39:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 56.32 Mbit/s

95th percentile per-packet one-way delay: 118.450 ms

Loss rate: 29.22%

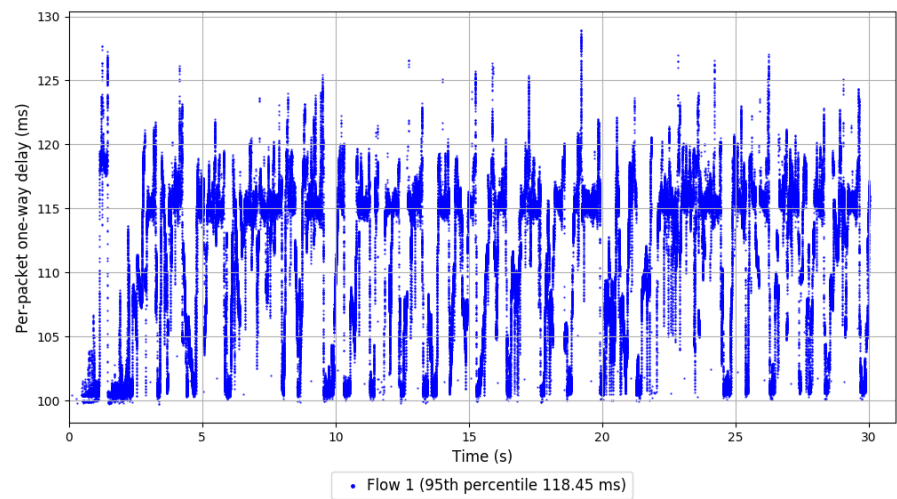
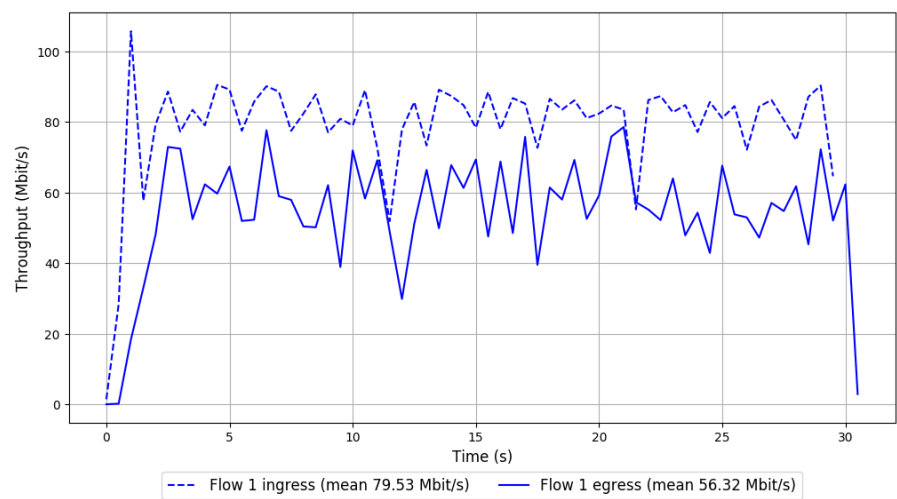
-- Flow 1:

Average throughput: 56.32 Mbit/s

95th percentile per-packet one-way delay: 118.450 ms

Loss rate: 29.22%

Run 6: Report of FillP-Sheep — Data Link

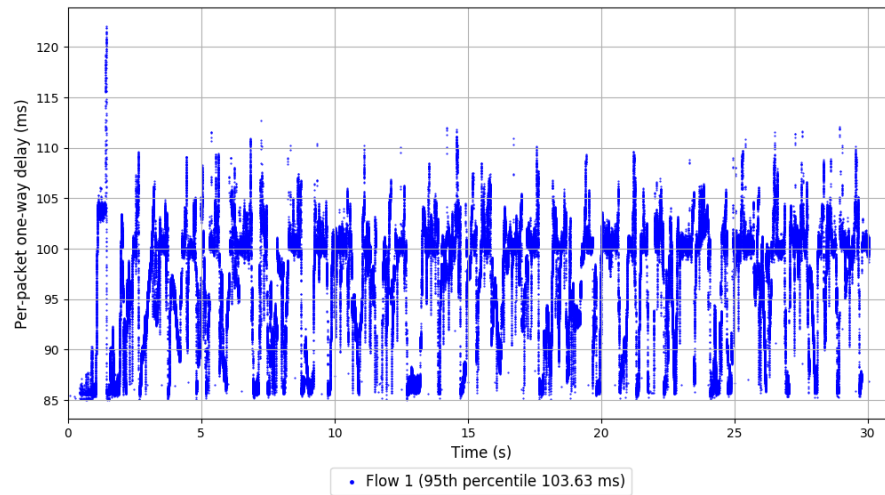
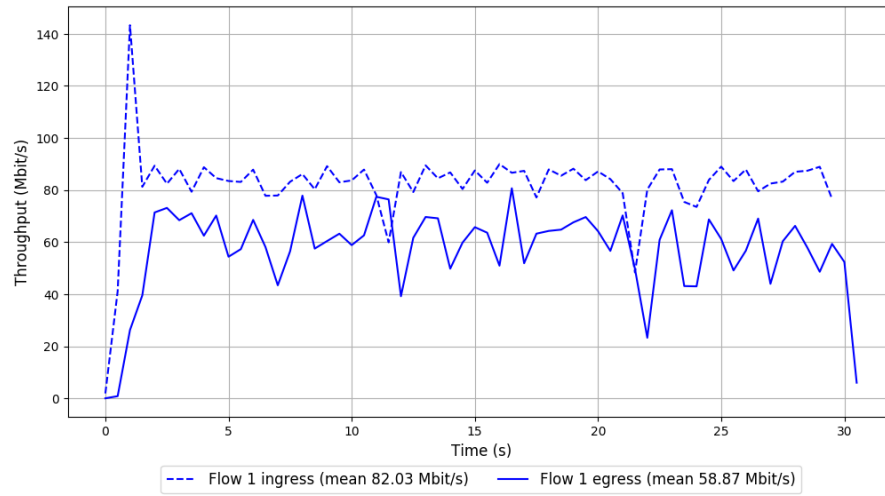


Run 7: Statistics of FillP-Sheep

Start at: 2018-07-17 11:39:55
End at: 2018-07-17 11:40:25
Local clock offset: -5.668 ms
Remote clock offset: 0.732 ms

Below is generated by plot.py at 2018-07-17 13:39:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 58.87 Mbit/s
95th percentile per-packet one-way delay: 103.633 ms
Loss rate: 28.23%
-- Flow 1:
Average throughput: 58.87 Mbit/s
95th percentile per-packet one-way delay: 103.633 ms
Loss rate: 28.23%

Run 7: Report of FillP-Sheep — Data Link



Run 8: Statistics of FillP-Sheep

Start at: 2018-07-17 12:12:16

End at: 2018-07-17 12:12:46

Local clock offset: 3.798 ms

Remote clock offset: 0.484 ms

Below is generated by plot.py at 2018-07-17 13:39:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 51.40 Mbit/s

95th percentile per-packet one-way delay: 118.712 ms

Loss rate: 31.35%

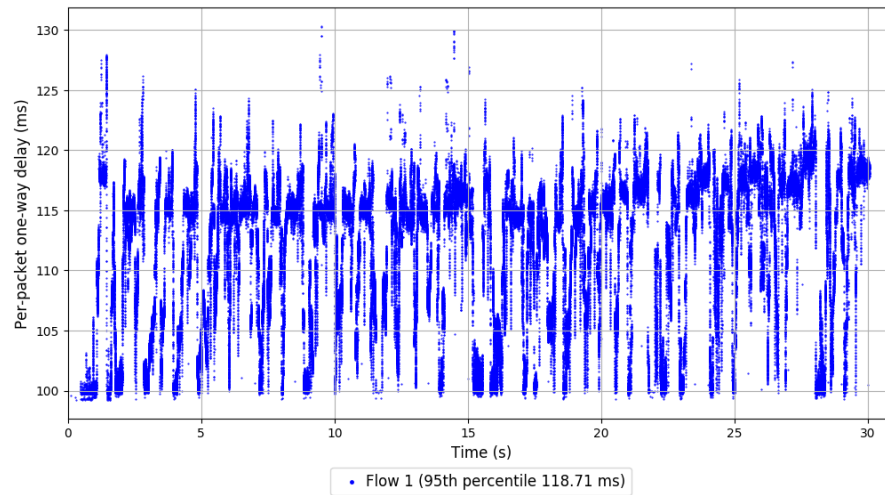
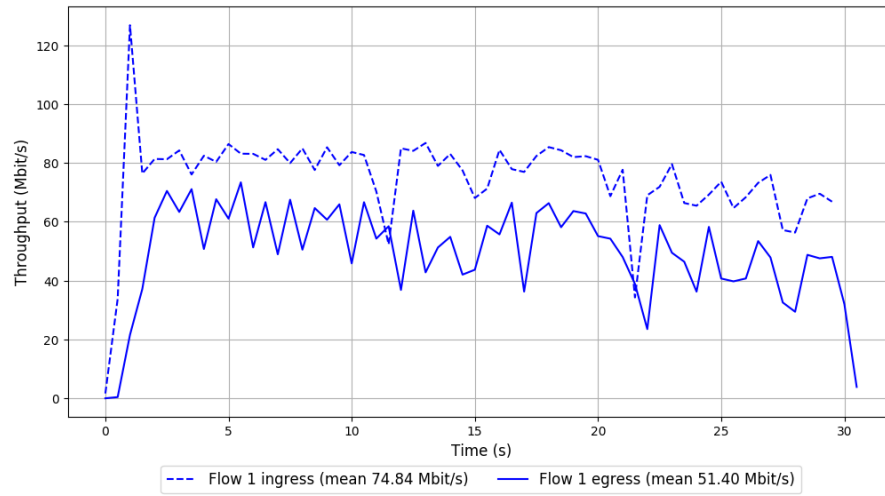
-- Flow 1:

Average throughput: 51.40 Mbit/s

95th percentile per-packet one-way delay: 118.712 ms

Loss rate: 31.35%

Run 8: Report of FillP-Sheep — Data Link



Run 9: Statistics of FillP-Sheep

Start at: 2018-07-17 12:42:56

End at: 2018-07-17 12:43:26

Local clock offset: 5.743 ms

Remote clock offset: 0.36 ms

Below is generated by plot.py at 2018-07-17 13:39:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 54.95 Mbit/s

95th percentile per-packet one-way delay: 117.931 ms

Loss rate: 30.91%

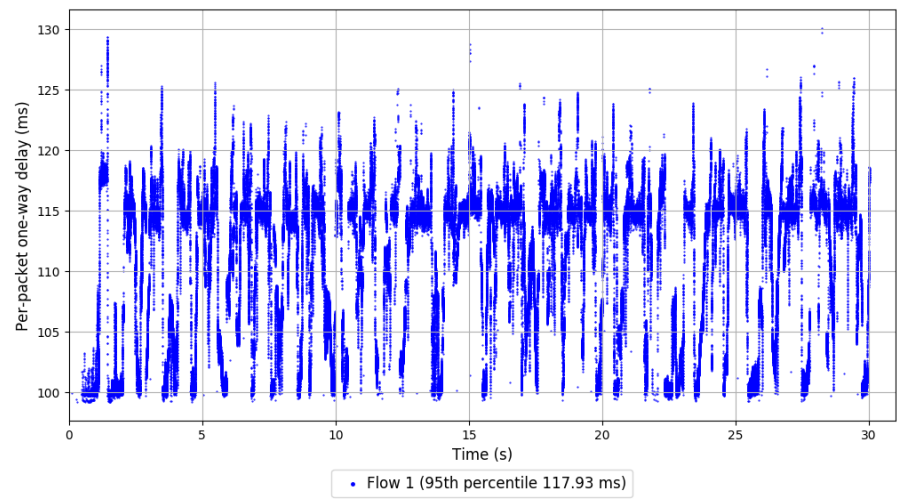
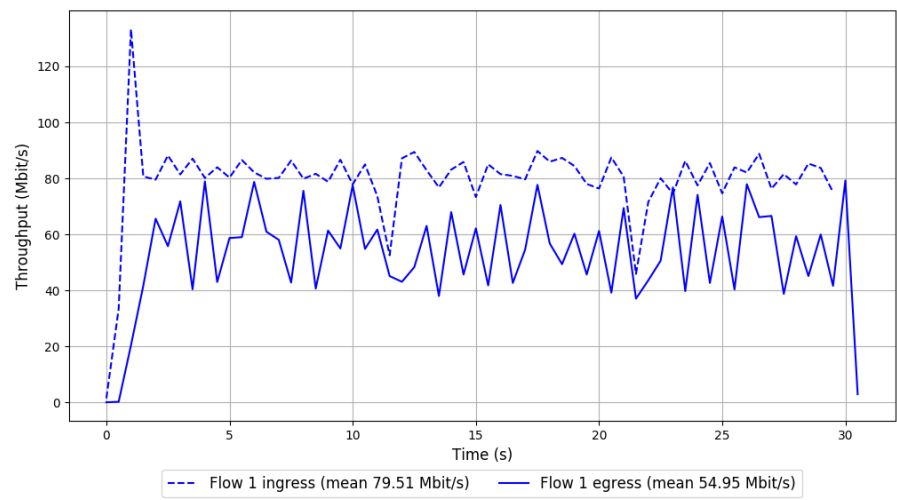
-- Flow 1:

Average throughput: 54.95 Mbit/s

95th percentile per-packet one-way delay: 117.931 ms

Loss rate: 30.91%

Run 9: Report of FillP-Sheep — Data Link



Run 10: Statistics of FillP-Sheep

Start at: 2018-07-17 13:13:07

End at: 2018-07-17 13:13:37

Local clock offset: 6.736 ms

Remote clock offset: 0.105 ms

Below is generated by plot.py at 2018-07-17 13:39:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 45.67 Mbit/s

95th percentile per-packet one-way delay: 104.267 ms

Loss rate: 36.32%

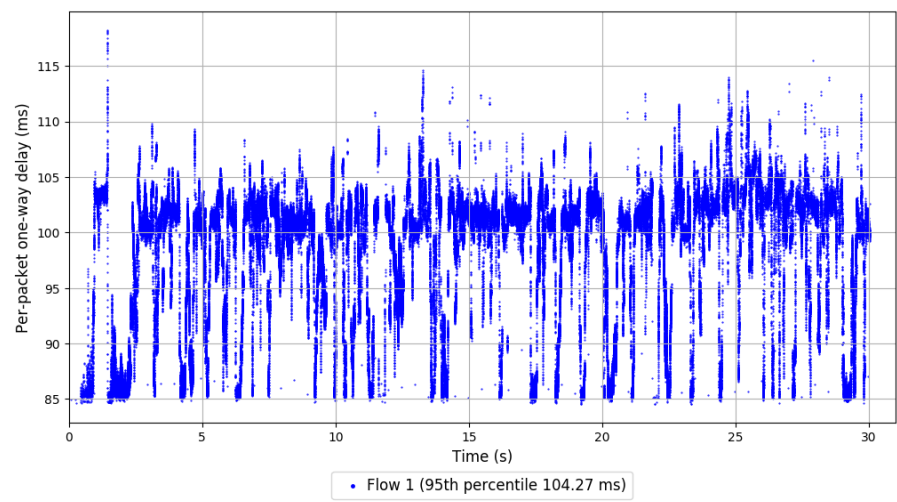
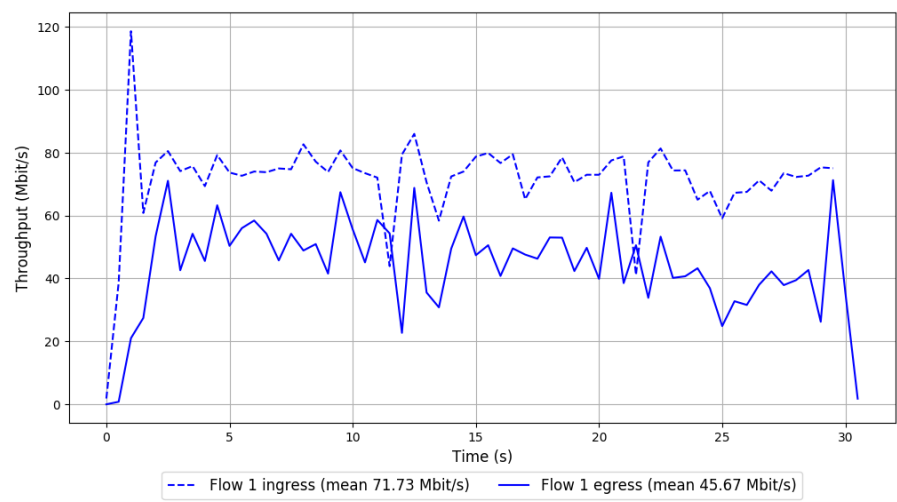
-- Flow 1:

Average throughput: 45.67 Mbit/s

95th percentile per-packet one-way delay: 104.267 ms

Loss rate: 36.32%

Run 10: Report of FillP-Sheep — Data Link

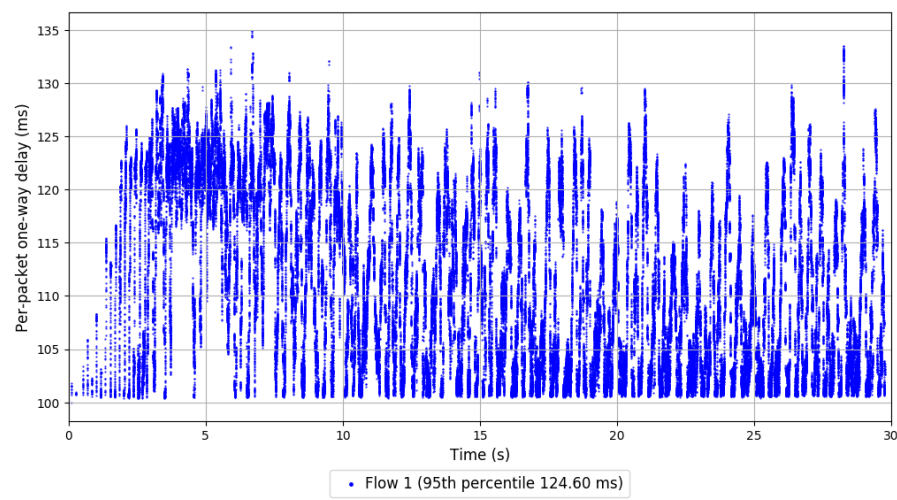
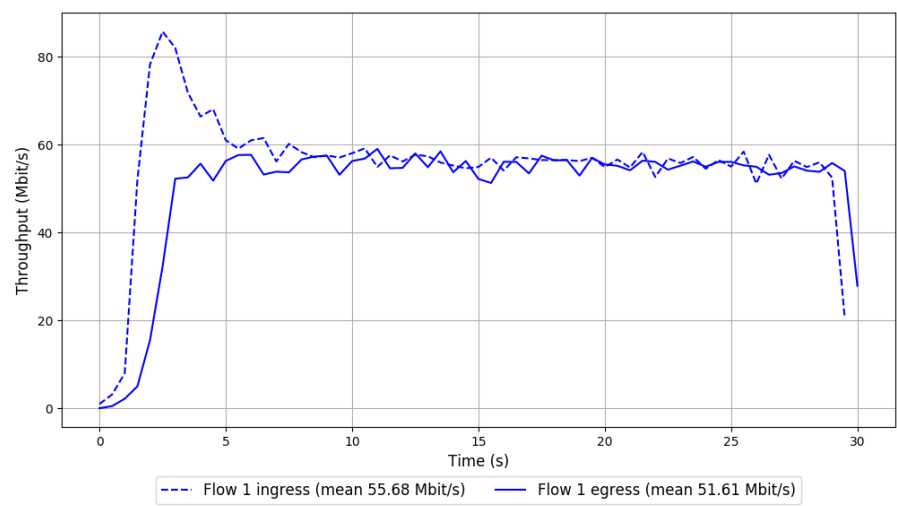


```
Run 1: Statistics of Indigo

Start at: 2018-07-17 09:05:28
End at: 2018-07-17 09:05:58
Local clock offset: 14.544 ms
Remote clock offset: 0.69 ms

# Below is generated by plot.py at 2018-07-17 13:39:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 51.61 Mbit/s
95th percentile per-packet one-way delay: 124.599 ms
Loss rate: 7.35%
-- Flow 1:
Average throughput: 51.61 Mbit/s
95th percentile per-packet one-way delay: 124.599 ms
Loss rate: 7.35%
```

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2018-07-17 09:32:20

End at: 2018-07-17 09:32:50

Local clock offset: 6.395 ms

Remote clock offset: 0.756 ms

Below is generated by plot.py at 2018-07-17 13:39:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 49.27 Mbit/s

95th percentile per-packet one-way delay: 112.381 ms

Loss rate: 8.06%

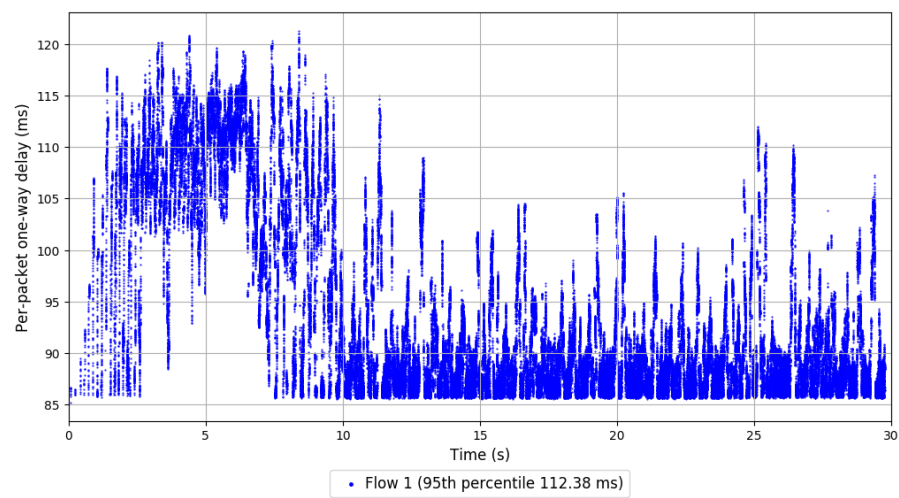
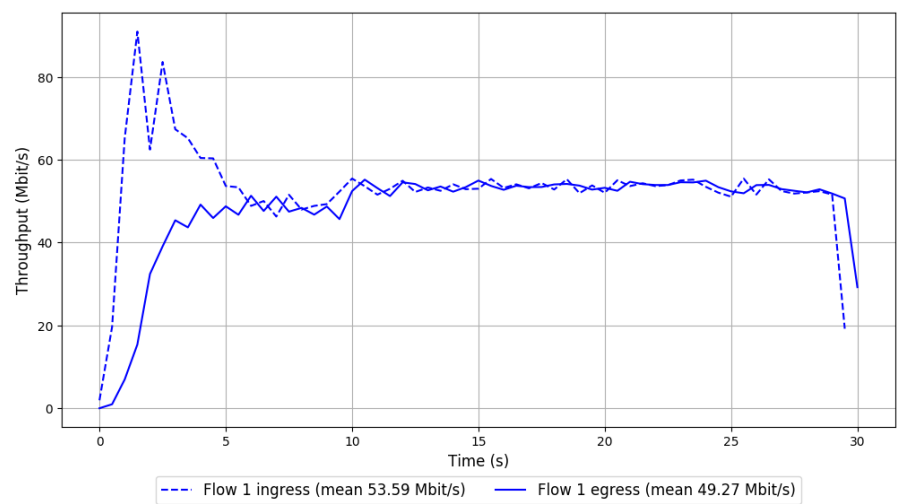
-- Flow 1:

Average throughput: 49.27 Mbit/s

95th percentile per-packet one-way delay: 112.381 ms

Loss rate: 8.06%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-07-17 09:59:39

End at: 2018-07-17 10:00:10

Local clock offset: -5.013 ms

Remote clock offset: 1.119 ms

Below is generated by plot.py at 2018-07-17 13:39:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 52.73 Mbit/s

95th percentile per-packet one-way delay: 109.762 ms

Loss rate: 5.87%

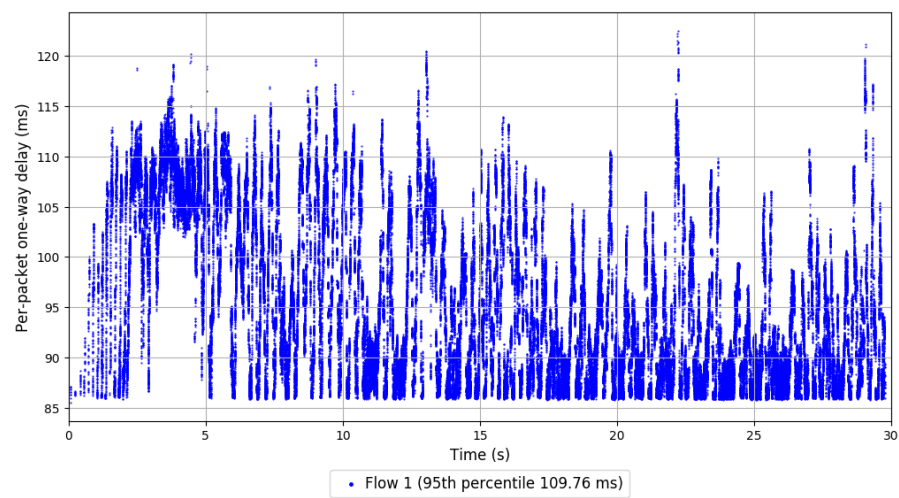
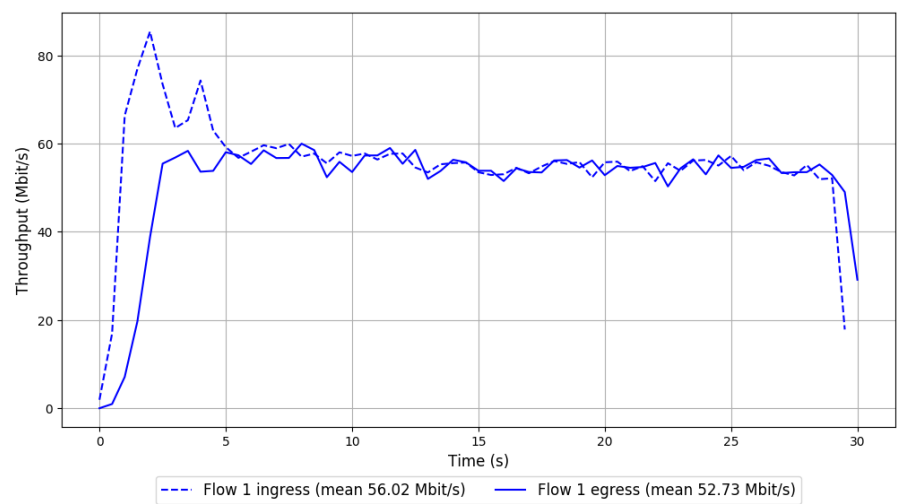
-- Flow 1:

Average throughput: 52.73 Mbit/s

95th percentile per-packet one-way delay: 109.762 ms

Loss rate: 5.87%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-07-17 10:25:58

End at: 2018-07-17 10:26:28

Local clock offset: -1.366 ms

Remote clock offset: 1.141 ms

Below is generated by plot.py at 2018-07-17 13:39:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 51.24 Mbit/s

95th percentile per-packet one-way delay: 108.124 ms

Loss rate: 1.98%

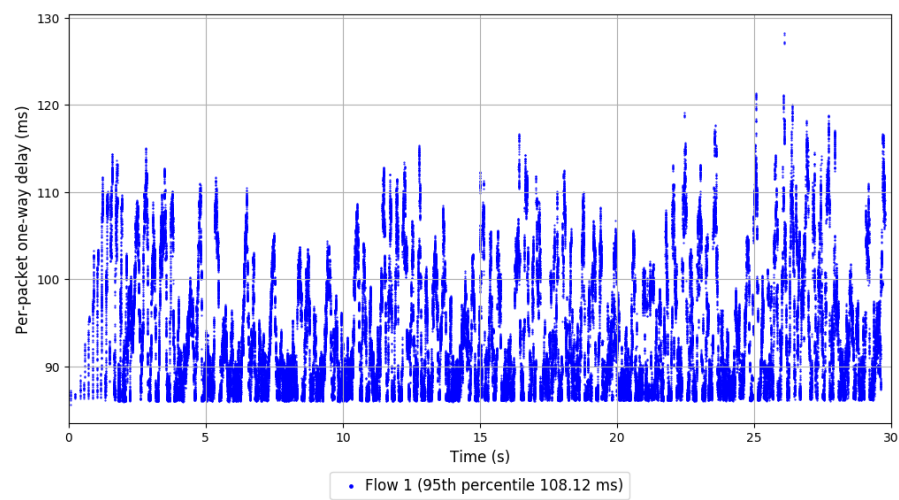
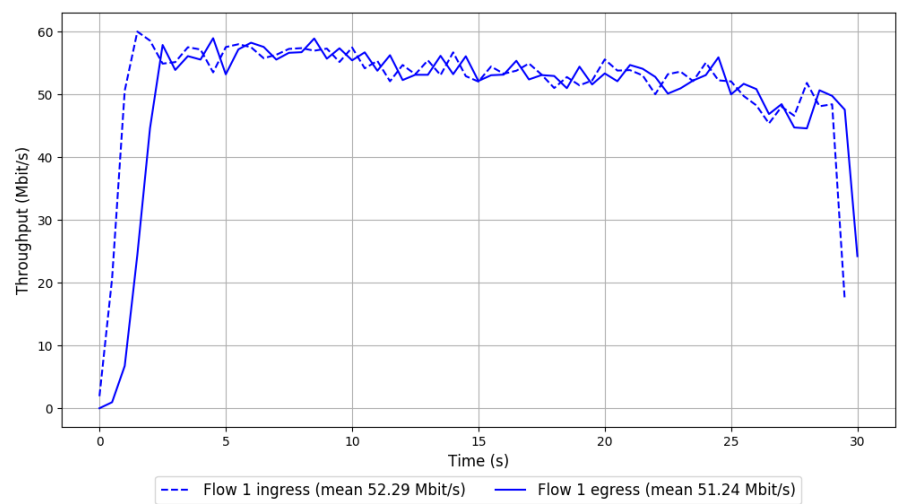
-- Flow 1:

Average throughput: 51.24 Mbit/s

95th percentile per-packet one-way delay: 108.124 ms

Loss rate: 1.98%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-07-17 10:52:03

End at: 2018-07-17 10:52:33

Local clock offset: -7.076 ms

Remote clock offset: 1.103 ms

Below is generated by plot.py at 2018-07-17 13:40:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 51.83 Mbit/s

95th percentile per-packet one-way delay: 120.793 ms

Loss rate: 1.71%

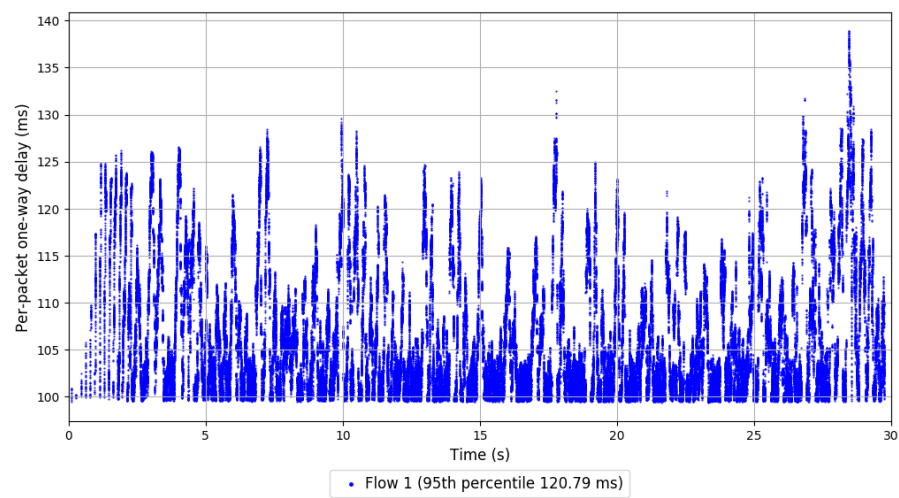
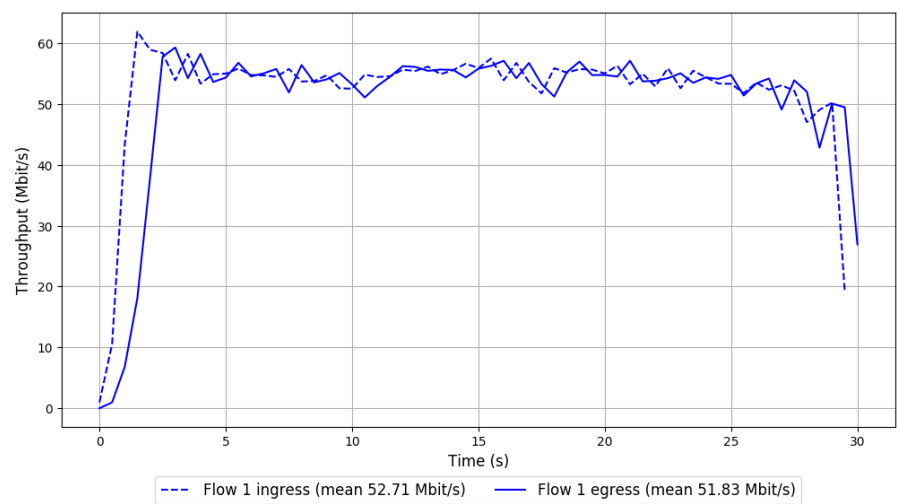
-- Flow 1:

Average throughput: 51.83 Mbit/s

95th percentile per-packet one-way delay: 120.793 ms

Loss rate: 1.71%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2018-07-17 11:19:04

End at: 2018-07-17 11:19:34

Local clock offset: -7.506 ms

Remote clock offset: 0.923 ms

Below is generated by plot.py at 2018-07-17 13:40:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 51.32 Mbit/s

95th percentile per-packet one-way delay: 107.407 ms

Loss rate: 1.72%

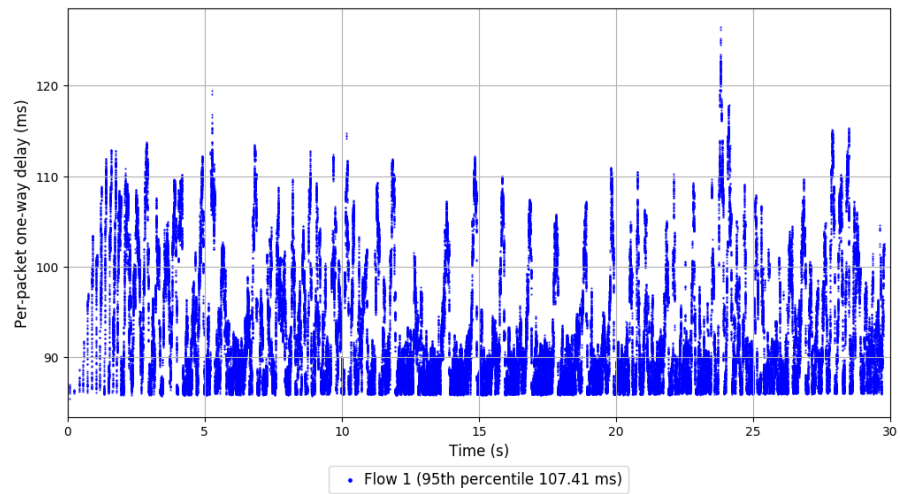
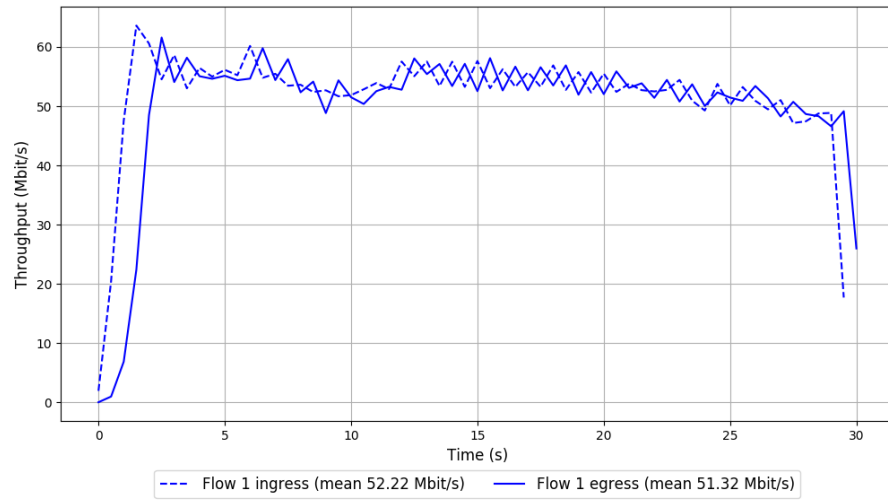
-- Flow 1:

Average throughput: 51.32 Mbit/s

95th percentile per-packet one-way delay: 107.407 ms

Loss rate: 1.72%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2018-07-17 11:50:18

End at: 2018-07-17 11:50:48

Local clock offset: -0.381 ms

Remote clock offset: 0.609 ms

Below is generated by plot.py at 2018-07-17 13:40:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 49.56 Mbit/s

95th percentile per-packet one-way delay: 125.619 ms

Loss rate: 2.51%

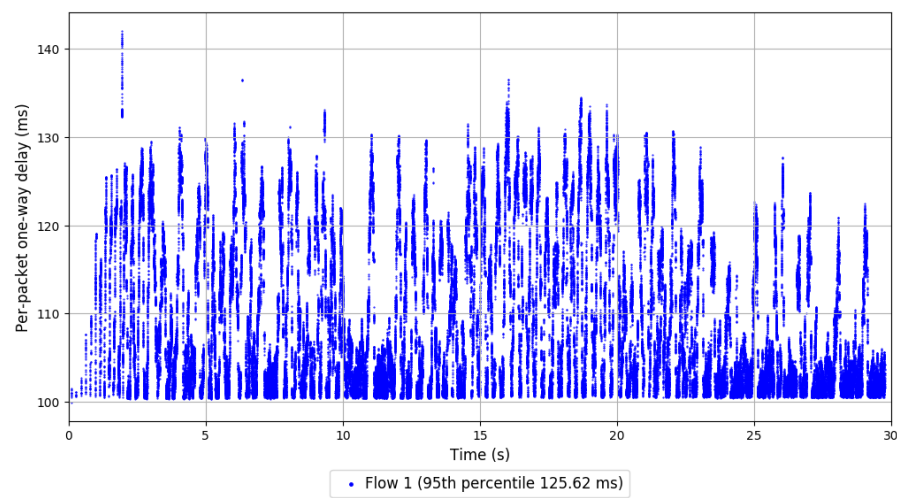
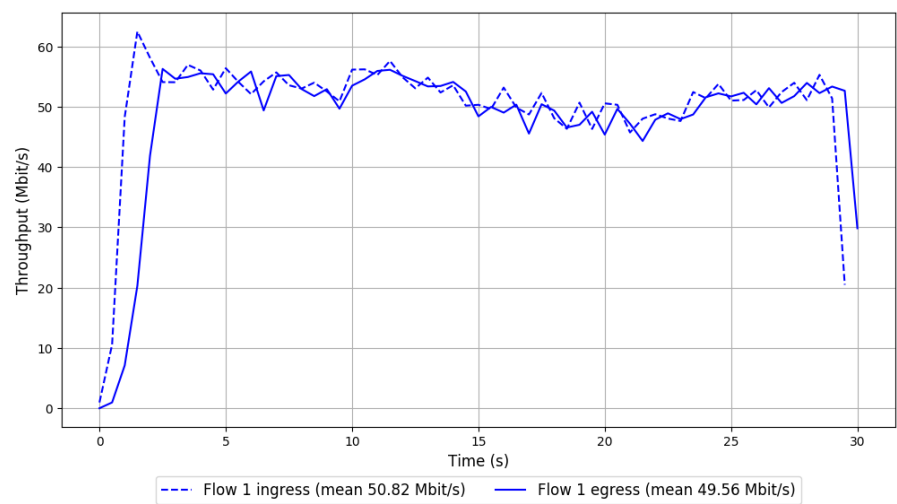
-- Flow 1:

Average throughput: 49.56 Mbit/s

95th percentile per-packet one-way delay: 125.619 ms

Loss rate: 2.51%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2018-07-17 12:21:47

End at: 2018-07-17 12:22:17

Local clock offset: 3.85 ms

Remote clock offset: 0.44 ms

Below is generated by plot.py at 2018-07-17 13:40:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 53.67 Mbit/s

95th percentile per-packet one-way delay: 124.738 ms

Loss rate: 9.10%

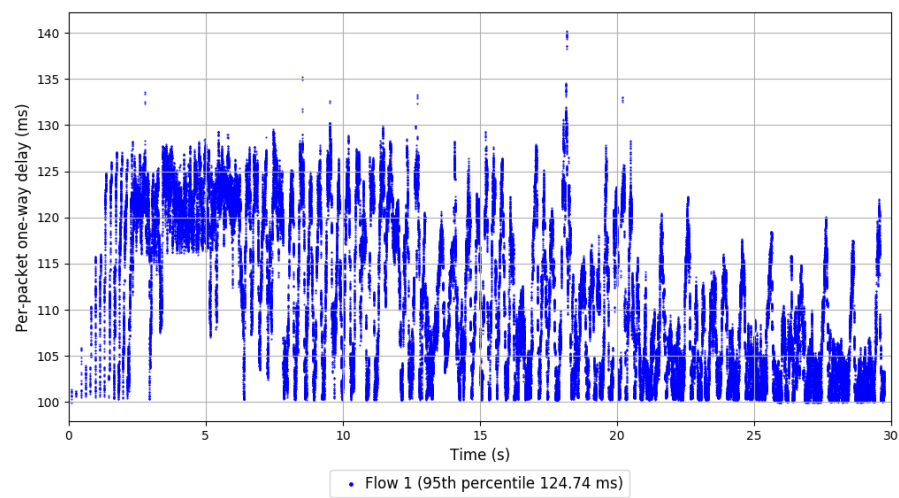
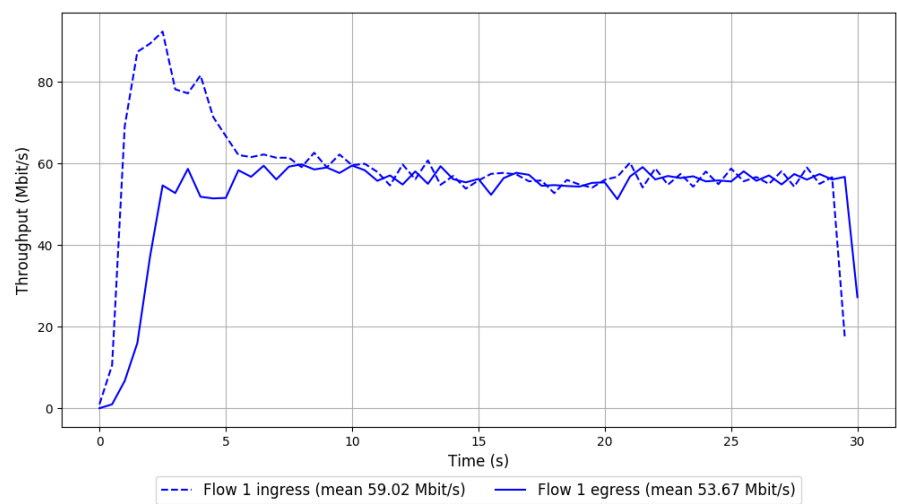
-- Flow 1:

Average throughput: 53.67 Mbit/s

95th percentile per-packet one-way delay: 124.738 ms

Loss rate: 9.10%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2018-07-17 12:51:38

End at: 2018-07-17 12:52:08

Local clock offset: 6.216 ms

Remote clock offset: 0.29 ms

Below is generated by plot.py at 2018-07-17 13:40:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 49.76 Mbit/s

95th percentile per-packet one-way delay: 122.987 ms

Loss rate: 2.49%

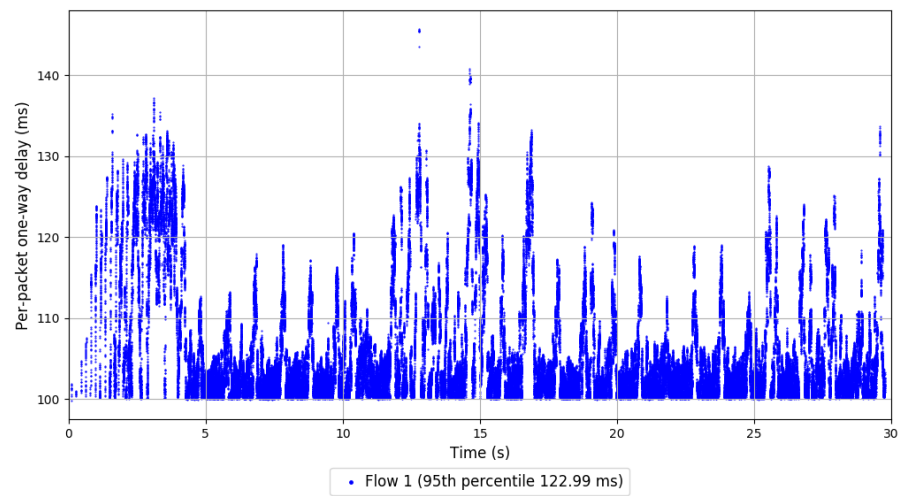
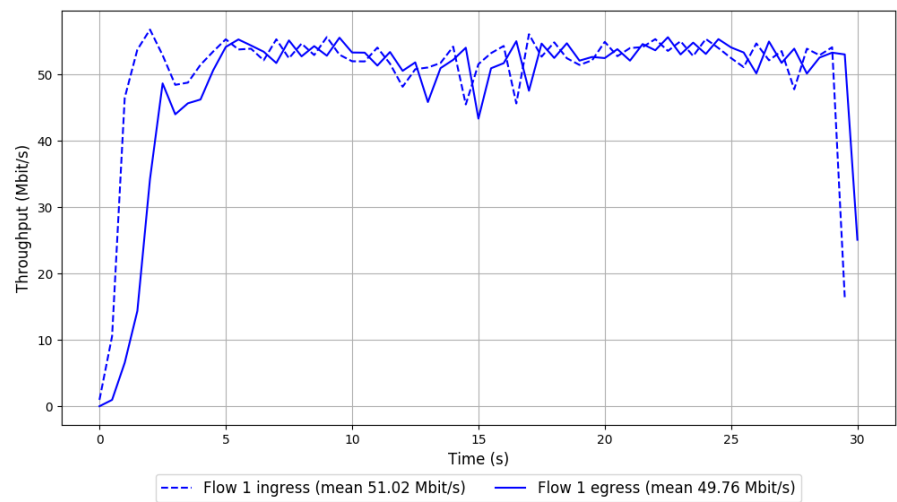
-- Flow 1:

Average throughput: 49.76 Mbit/s

95th percentile per-packet one-way delay: 122.987 ms

Loss rate: 2.49%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-07-17 13:20:50

End at: 2018-07-17 13:21:20

Local clock offset: 4.321 ms

Remote clock offset: 0.085 ms

Below is generated by plot.py at 2018-07-17 13:40:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 41.69 Mbit/s

95th percentile per-packet one-way delay: 130.213 ms

Loss rate: 6.30%

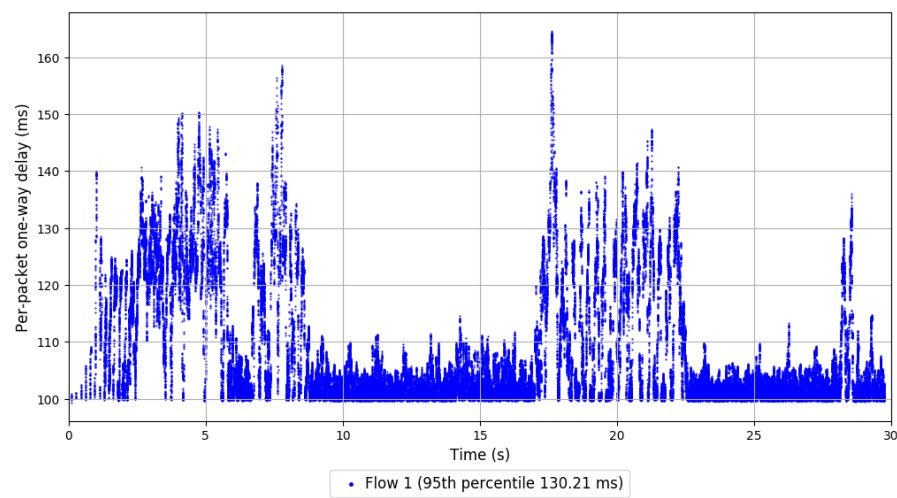
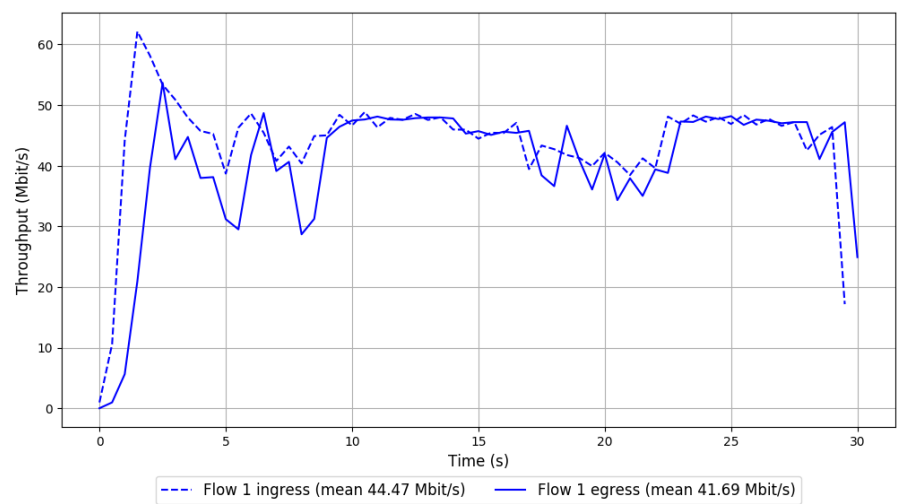
-- Flow 1:

Average throughput: 41.69 Mbit/s

95th percentile per-packet one-way delay: 130.213 ms

Loss rate: 6.30%

Run 10: Report of Indigo — Data Link

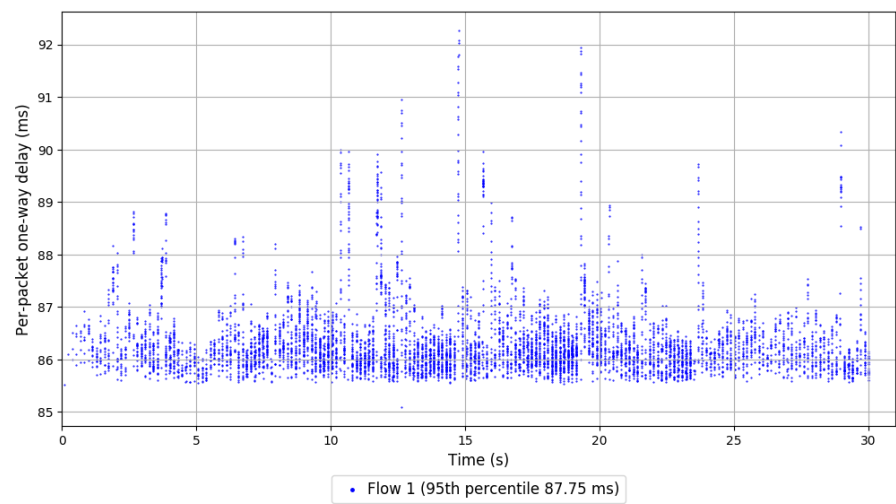
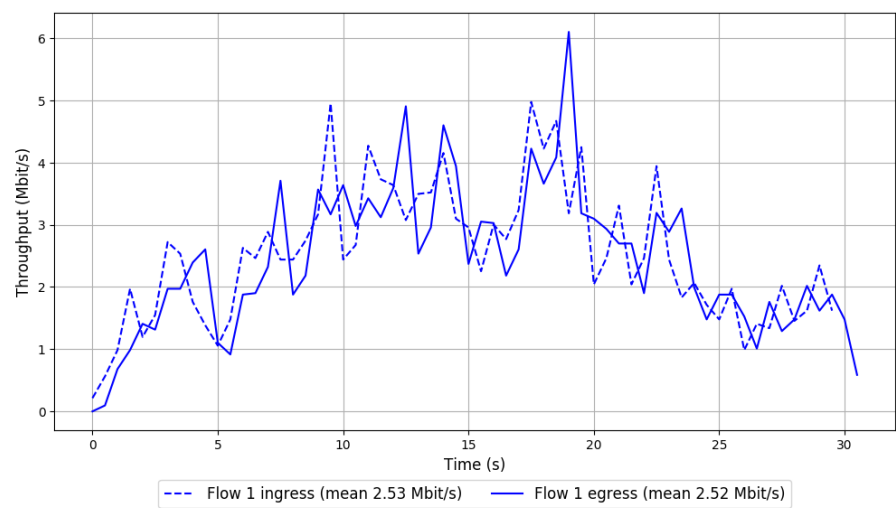


```
Run 1: Statistics of LEDBAT

Start at: 2018-07-17 08:55:25
End at: 2018-07-17 08:55:55
Local clock offset: 12.539 ms
Remote clock offset: 0.582 ms

# Below is generated by plot.py at 2018-07-17 13:40:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.52 Mbit/s
95th percentile per-packet one-way delay: 87.754 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 2.52 Mbit/s
95th percentile per-packet one-way delay: 87.754 ms
Loss rate: 0.36%
```


Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-07-17 09:22:36

End at: 2018-07-17 09:23:06

Local clock offset: 7.342 ms

Remote clock offset: 0.79 ms

Below is generated by plot.py at 2018-07-17 13:40:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.38 Mbit/s

95th percentile per-packet one-way delay: 87.217 ms

Loss rate: 0.35%

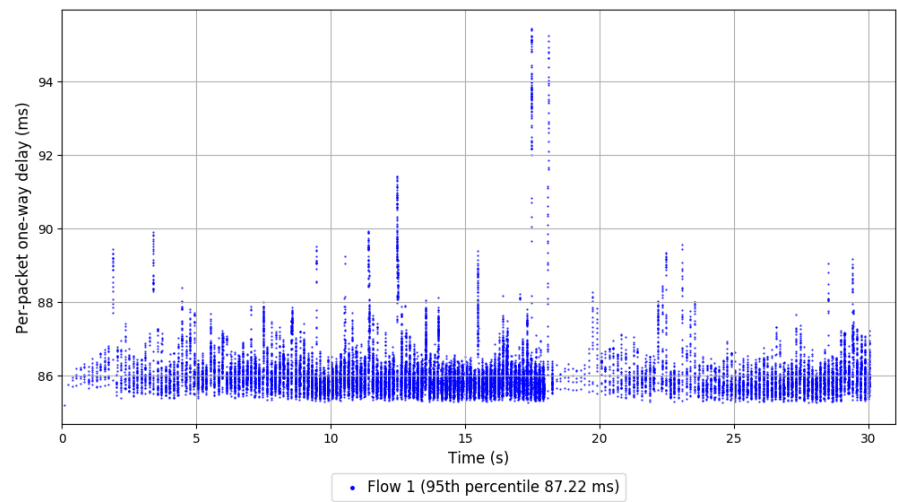
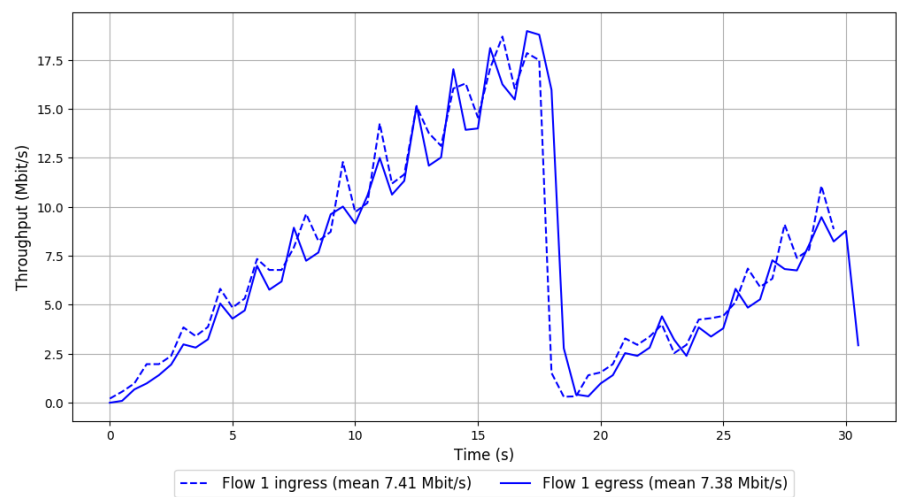
-- Flow 1:

Average throughput: 7.38 Mbit/s

95th percentile per-packet one-way delay: 87.217 ms

Loss rate: 0.35%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-07-17 09:50:02

End at: 2018-07-17 09:50:32

Local clock offset: -1.542 ms

Remote clock offset: 1.119 ms

Below is generated by plot.py at 2018-07-17 13:40:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.56 Mbit/s

95th percentile per-packet one-way delay: 88.430 ms

Loss rate: 0.39%

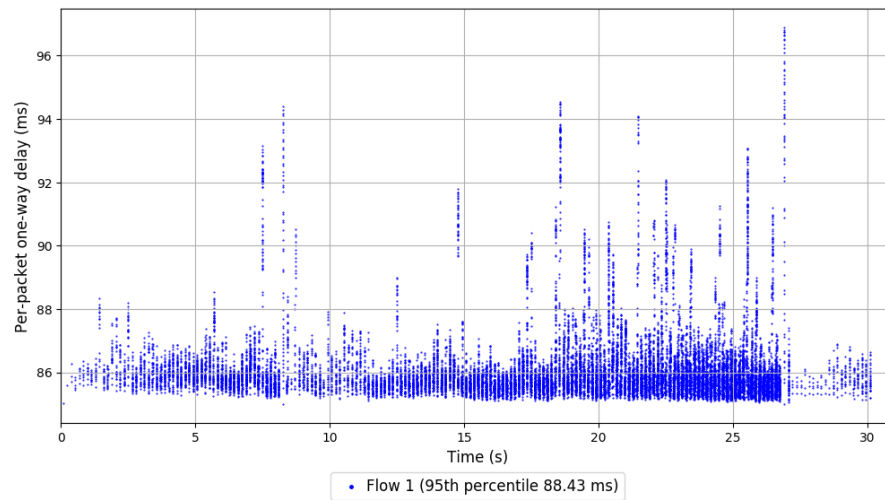
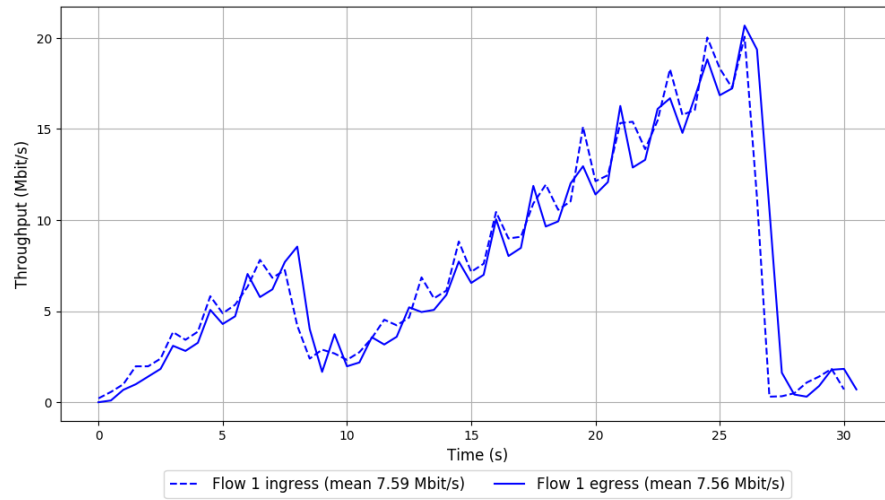
-- Flow 1:

Average throughput: 7.56 Mbit/s

95th percentile per-packet one-way delay: 88.430 ms

Loss rate: 0.39%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-07-17 10:17:24

End at: 2018-07-17 10:17:54

Local clock offset: -3.165 ms

Remote clock offset: 1.192 ms

Below is generated by plot.py at 2018-07-17 13:40:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.37 Mbit/s

95th percentile per-packet one-way delay: 87.962 ms

Loss rate: 0.31%

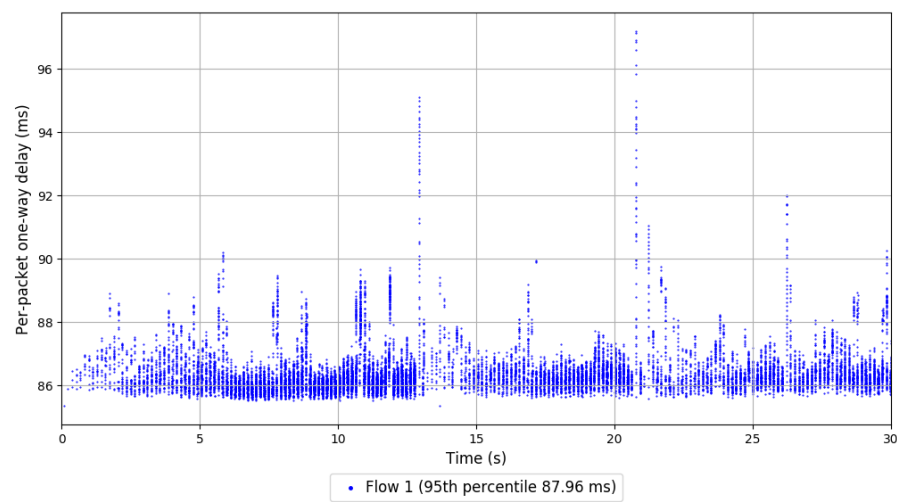
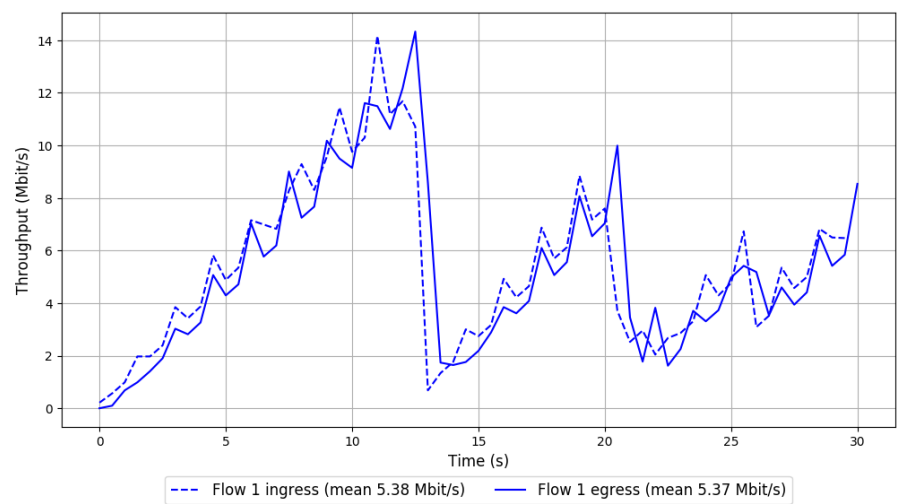
-- Flow 1:

Average throughput: 5.37 Mbit/s

95th percentile per-packet one-way delay: 87.962 ms

Loss rate: 0.31%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-07-17 10:43:06

End at: 2018-07-17 10:43:36

Local clock offset: -1.876 ms

Remote clock offset: 1.198 ms

Below is generated by plot.py at 2018-07-17 13:40:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.33 Mbit/s

95th percentile per-packet one-way delay: 101.581 ms

Loss rate: 0.19%

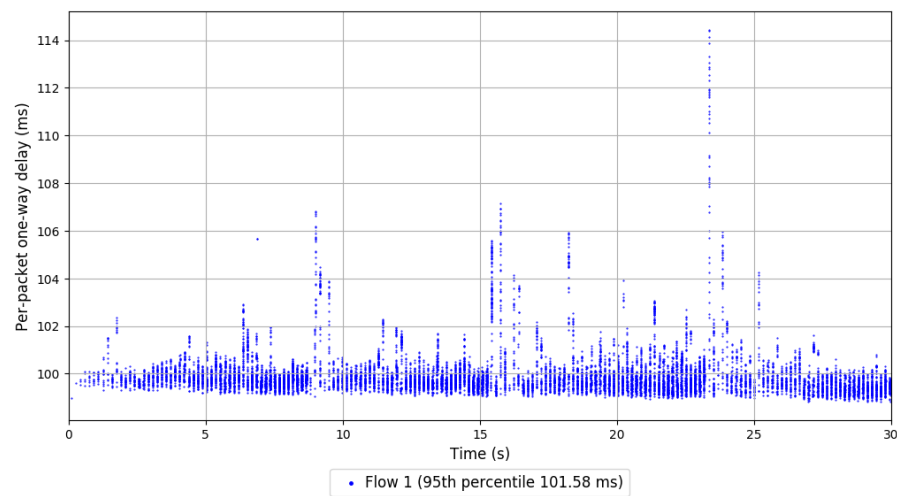
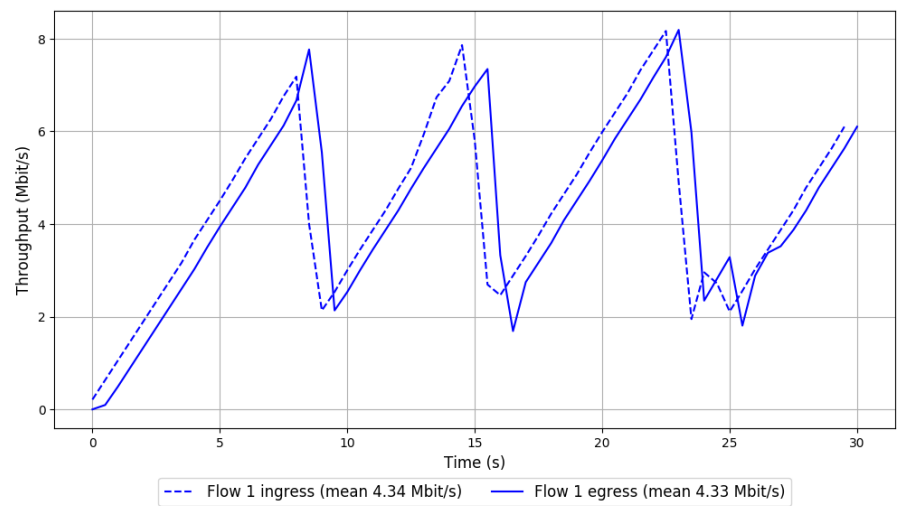
-- Flow 1:

Average throughput: 4.33 Mbit/s

95th percentile per-packet one-way delay: 101.581 ms

Loss rate: 0.19%

Run 5: Report of LEDBAT — Data Link

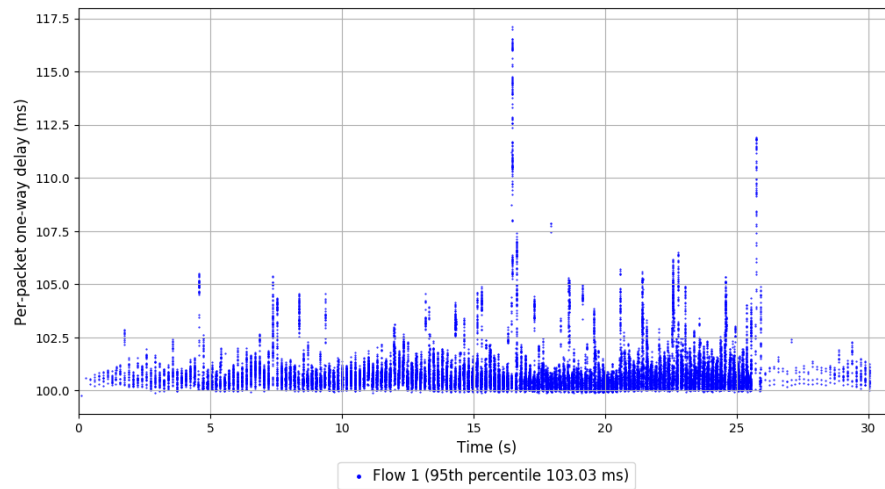
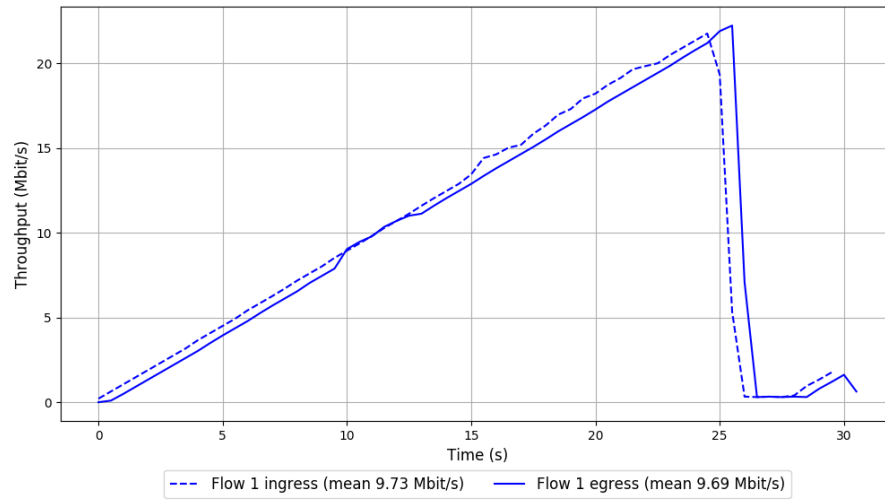


Run 6: Statistics of LEDBAT

Start at: 2018-07-17 11:09:10
End at: 2018-07-17 11:09:40
Local clock offset: -10.462 ms
Remote clock offset: 0.947 ms

Below is generated by plot.py at 2018-07-17 13:40:28
Datalink statistics
-- Total of 1 flow:
Average throughput: 9.69 Mbit/s
95th percentile per-packet one-way delay: 103.030 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 9.69 Mbit/s
95th percentile per-packet one-way delay: 103.030 ms
Loss rate: 0.39%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-07-17 11:38:30

End at: 2018-07-17 11:39:00

Local clock offset: -5.673 ms

Remote clock offset: 0.72 ms

Below is generated by plot.py at 2018-07-17 13:40:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.84 Mbit/s

95th percentile per-packet one-way delay: 87.797 ms

Loss rate: 0.15%

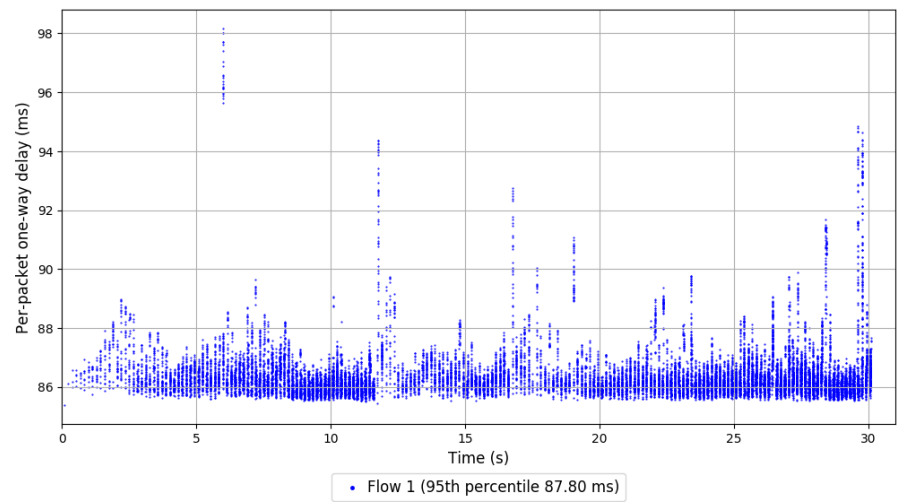
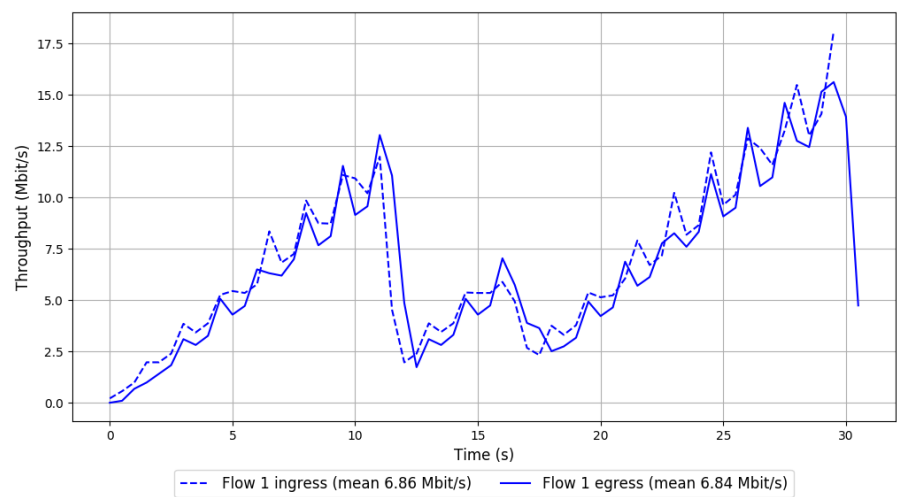
-- Flow 1:

Average throughput: 6.84 Mbit/s

95th percentile per-packet one-way delay: 87.797 ms

Loss rate: 0.15%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-07-17 12:10:54

End at: 2018-07-17 12:11:24

Local clock offset: 3.96 ms

Remote clock offset: 0.475 ms

Below is generated by plot.py at 2018-07-17 13:40:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.94 Mbit/s

95th percentile per-packet one-way delay: 102.917 ms

Loss rate: 0.30%

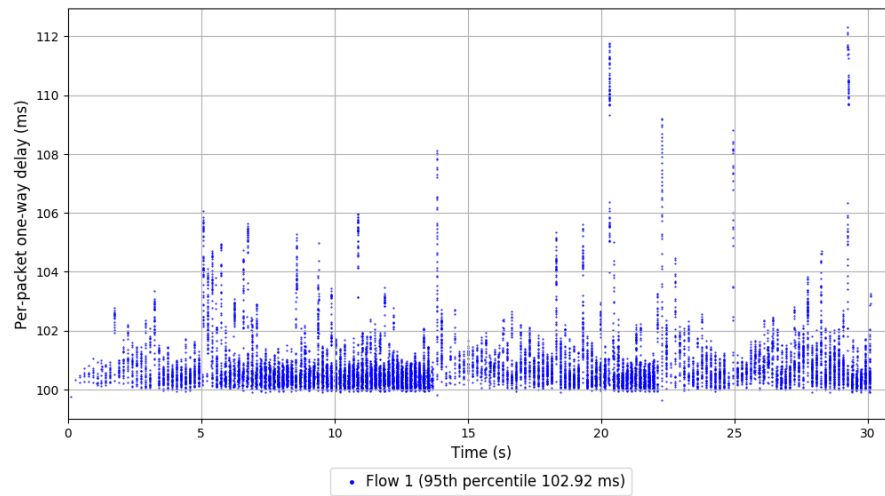
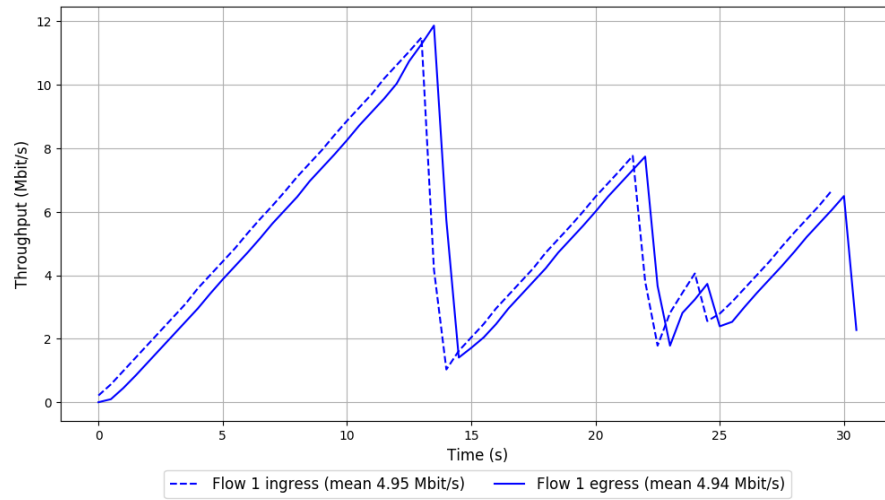
-- Flow 1:

Average throughput: 4.94 Mbit/s

95th percentile per-packet one-way delay: 102.917 ms

Loss rate: 0.30%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-07-17 12:41:35

End at: 2018-07-17 12:42:05

Local clock offset: 5.453 ms

Remote clock offset: 0.32 ms

Below is generated by plot.py at 2018-07-17 13:40:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.28 Mbit/s

95th percentile per-packet one-way delay: 87.430 ms

Loss rate: 0.21%

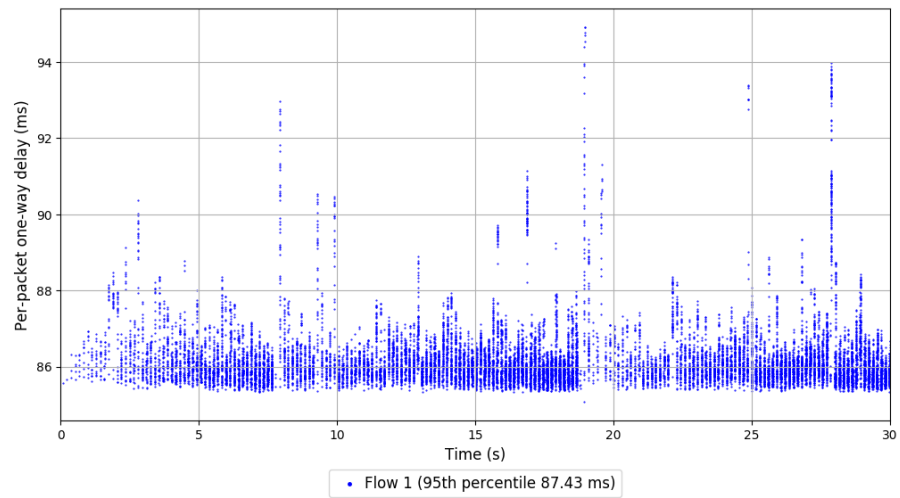
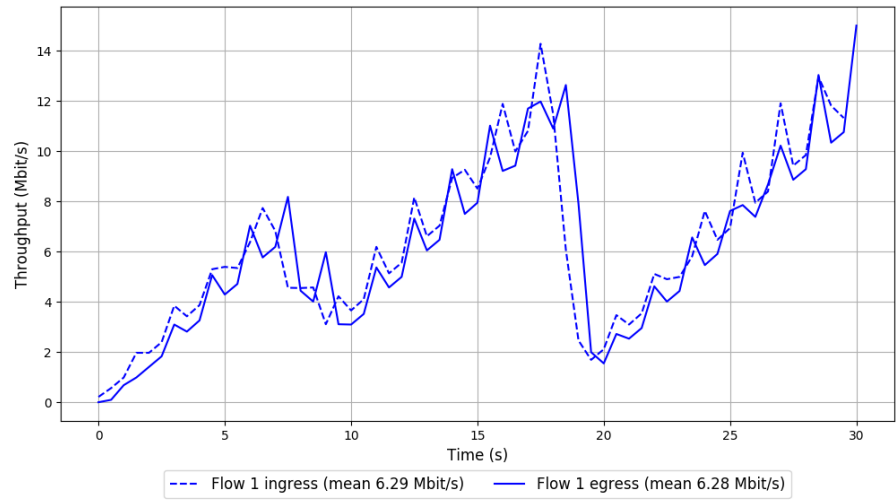
-- Flow 1:

Average throughput: 6.28 Mbit/s

95th percentile per-packet one-way delay: 87.430 ms

Loss rate: 0.21%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-07-17 13:11:46

End at: 2018-07-17 13:12:16

Local clock offset: 7.618 ms

Remote clock offset: 0.181 ms

Below is generated by plot.py at 2018-07-17 13:40:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.70 Mbit/s

95th percentile per-packet one-way delay: 103.679 ms

Loss rate: 0.63%

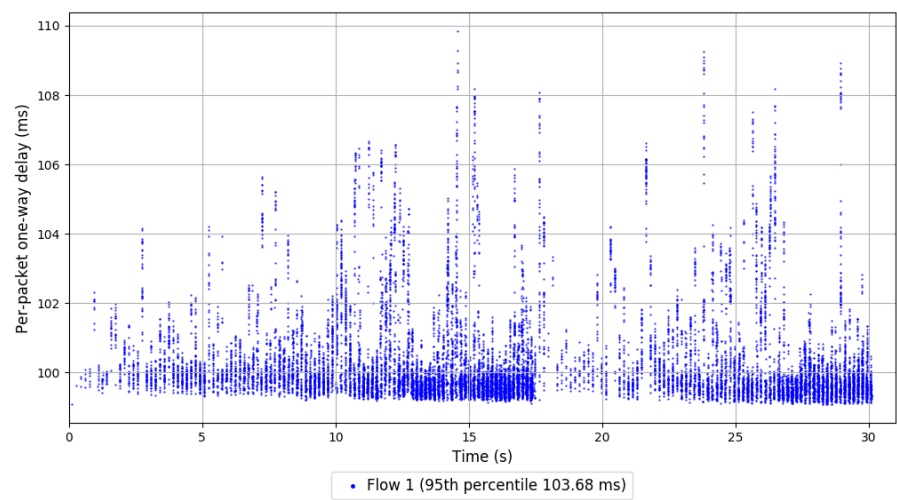
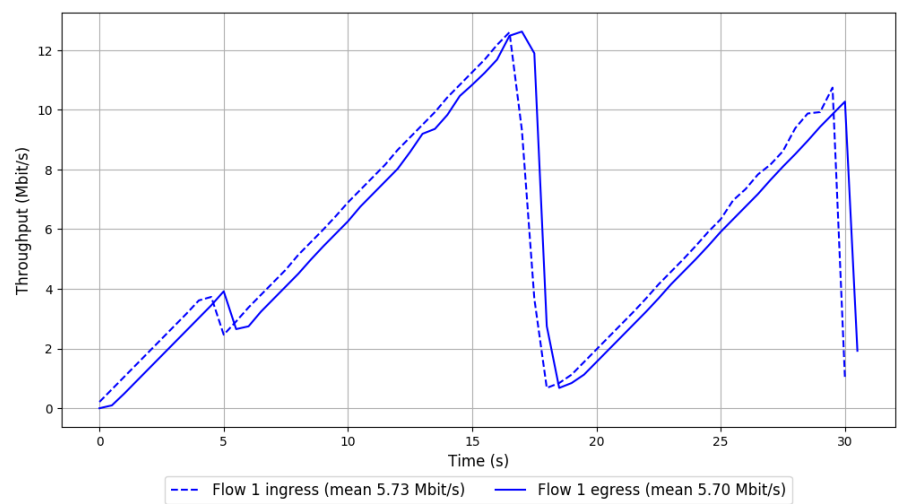
-- Flow 1:

Average throughput: 5.70 Mbit/s

95th percentile per-packet one-way delay: 103.679 ms

Loss rate: 0.63%

Run 10: Report of LEDBAT — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2018-07-17 08:58:47

End at: 2018-07-17 08:59:17

Local clock offset: 12.931 ms

Remote clock offset: 0.684 ms

Below is generated by plot.py at 2018-07-17 13:41:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.41 Mbit/s

95th percentile per-packet one-way delay: 117.415 ms

Loss rate: 5.03%

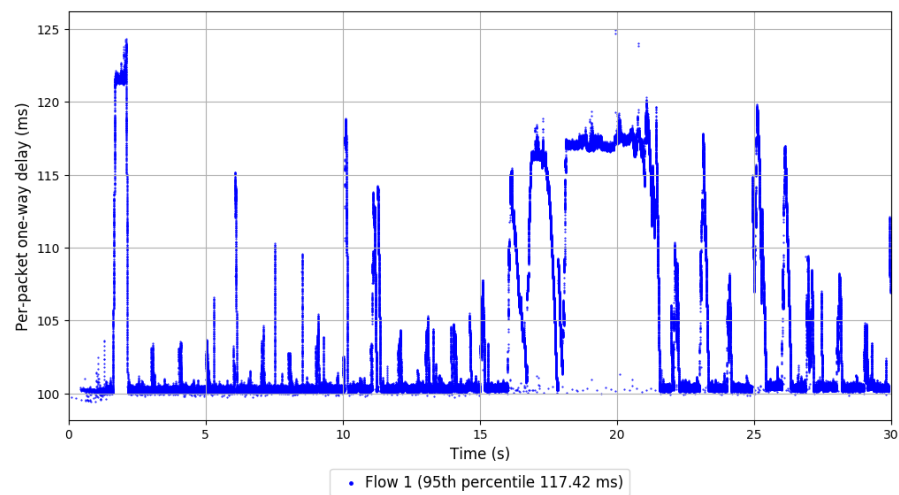
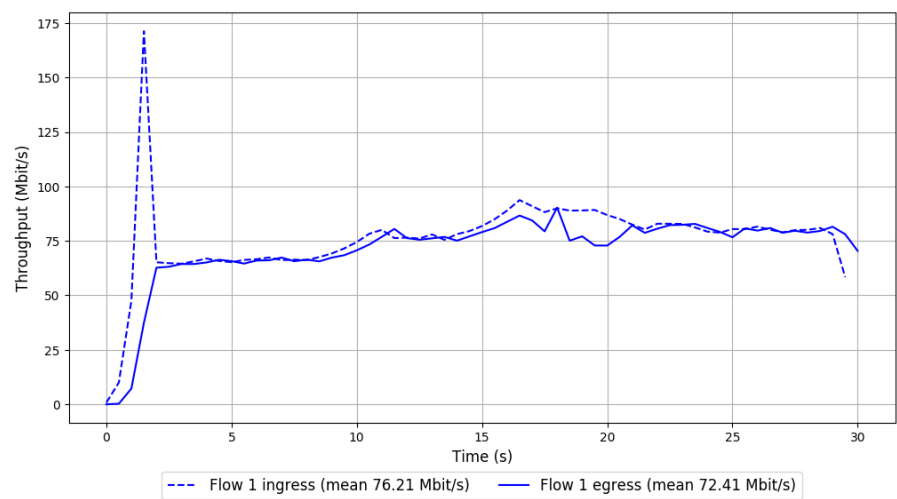
-- Flow 1:

Average throughput: 72.41 Mbit/s

95th percentile per-packet one-way delay: 117.415 ms

Loss rate: 5.03%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-07-17 09:25:50

End at: 2018-07-17 09:26:20

Local clock offset: 6.455 ms

Remote clock offset: 0.773 ms

Below is generated by plot.py at 2018-07-17 13:41:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.65 Mbit/s

95th percentile per-packet one-way delay: 101.992 ms

Loss rate: 3.09%

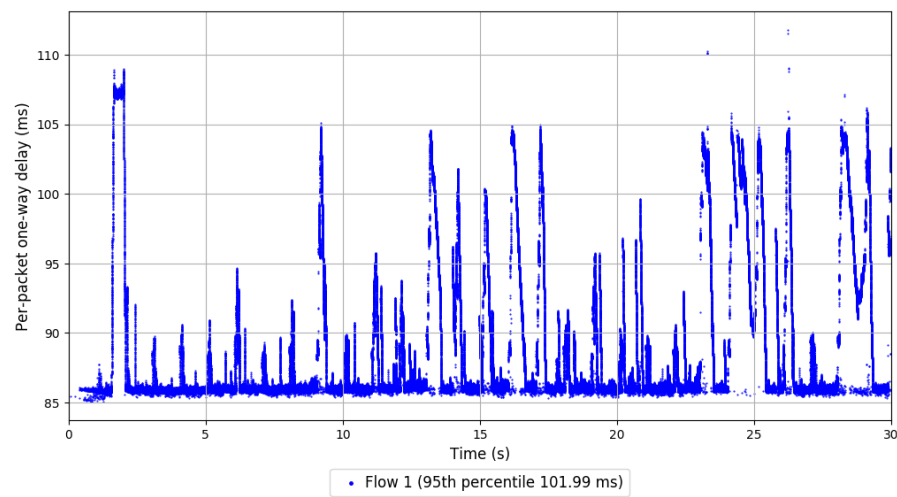
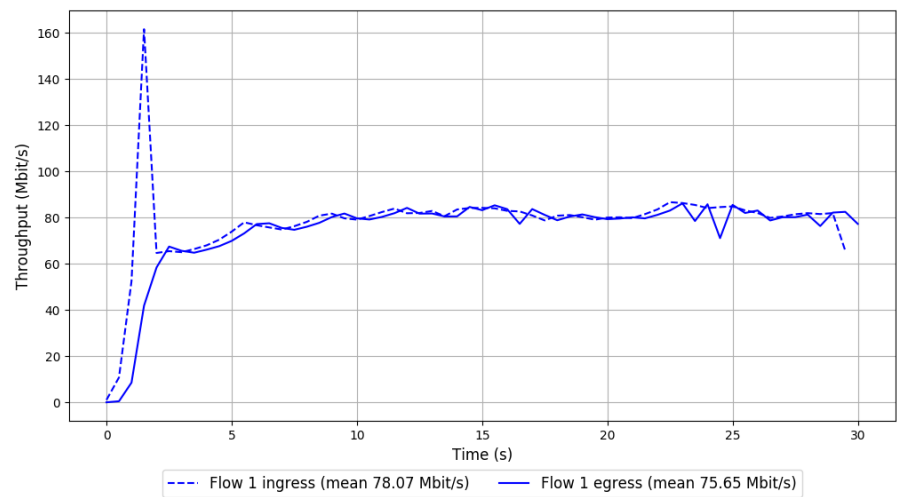
-- Flow 1:

Average throughput: 75.65 Mbit/s

95th percentile per-packet one-way delay: 101.992 ms

Loss rate: 3.09%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-07-17 09:53:17

End at: 2018-07-17 09:53:47

Local clock offset: -2.902 ms

Remote clock offset: 1.089 ms

Below is generated by plot.py at 2018-07-17 13:41:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.67 Mbit/s

95th percentile per-packet one-way delay: 101.991 ms

Loss rate: 4.54%

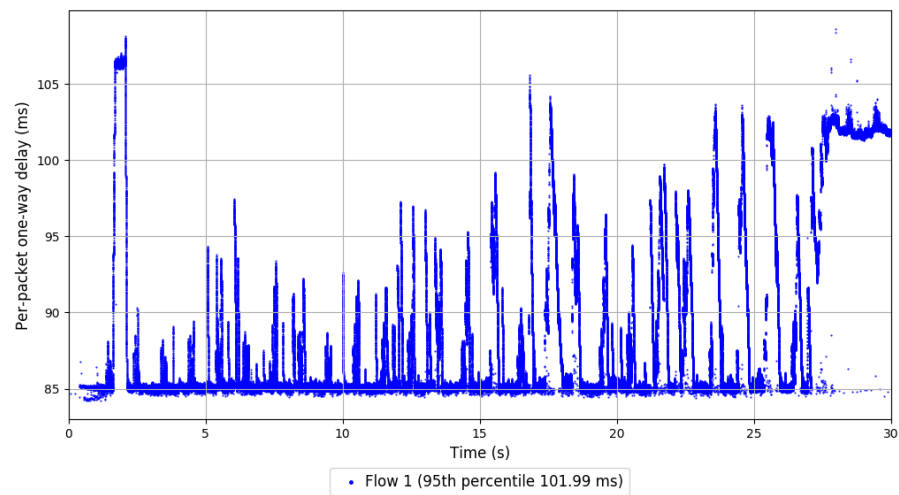
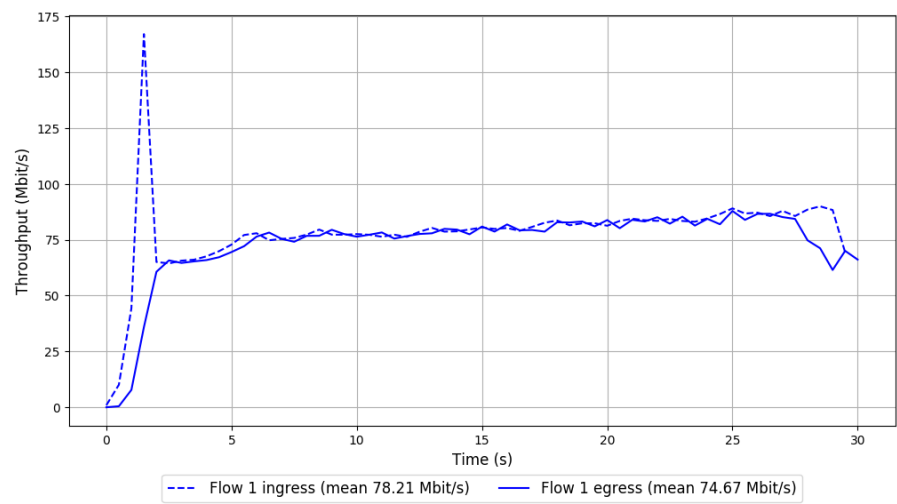
-- Flow 1:

Average throughput: 74.67 Mbit/s

95th percentile per-packet one-way delay: 101.991 ms

Loss rate: 4.54%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-07-17 10:20:18

End at: 2018-07-17 10:20:48

Local clock offset: -2.428 ms

Remote clock offset: 1.165 ms

Below is generated by plot.py at 2018-07-17 13:41:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 67.60 Mbit/s

95th percentile per-packet one-way delay: 113.443 ms

Loss rate: 2.72%

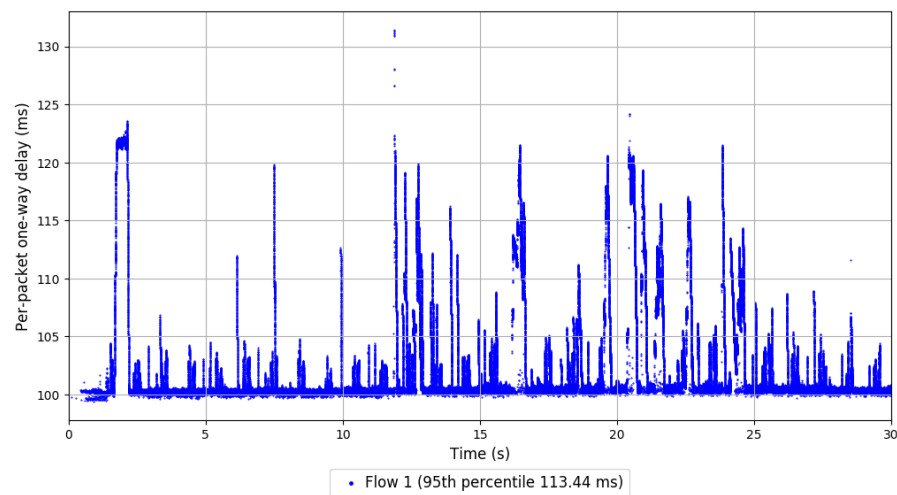
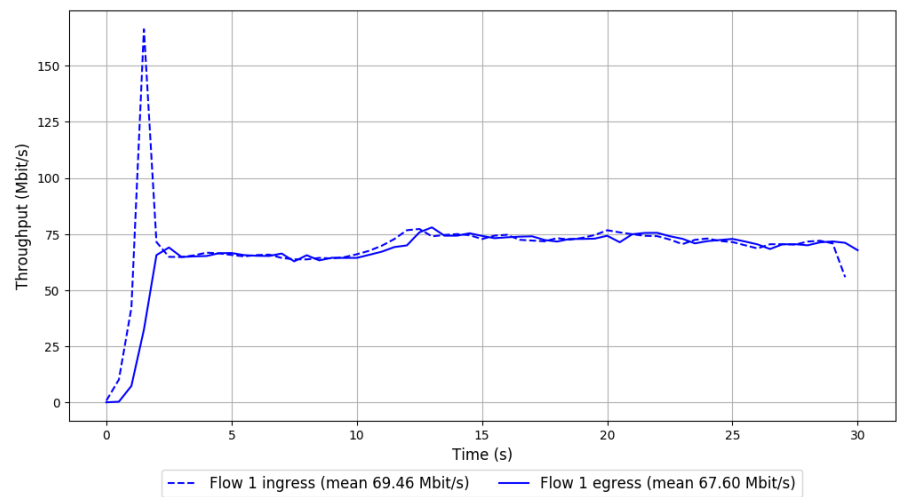
-- Flow 1:

Average throughput: 67.60 Mbit/s

95th percentile per-packet one-way delay: 113.443 ms

Loss rate: 2.72%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-07-17 10:46:05

End at: 2018-07-17 10:46:35

Local clock offset: -3.835 ms

Remote clock offset: 1.227 ms

Below is generated by plot.py at 2018-07-17 13:41:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.06 Mbit/s

95th percentile per-packet one-way delay: 100.985 ms

Loss rate: 2.86%

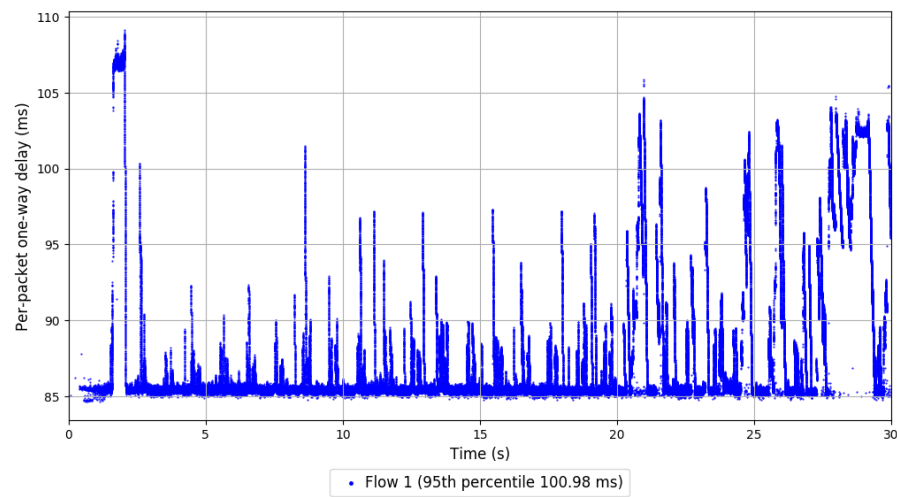
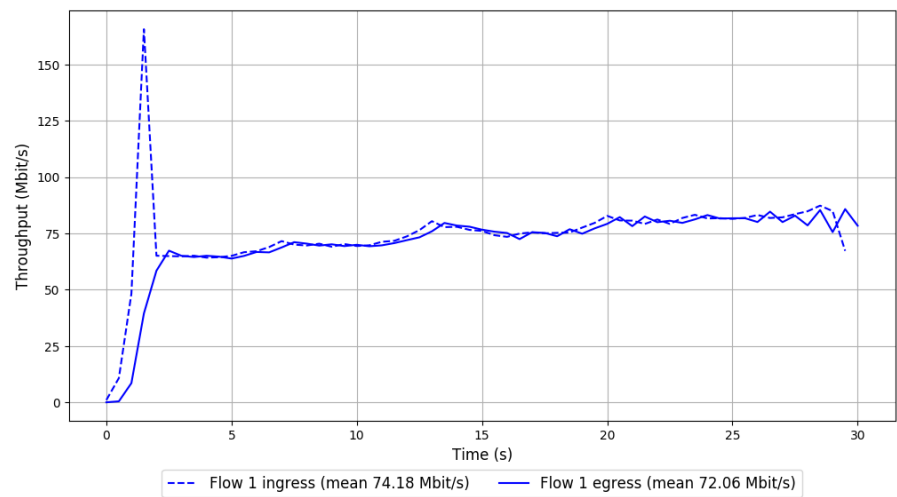
-- Flow 1:

Average throughput: 72.06 Mbit/s

95th percentile per-packet one-way delay: 100.985 ms

Loss rate: 2.86%

Run 5: Report of PCC-Allegro — Data Link



Run 6: Statistics of PCC-Allegro

Start at: 2018-07-17 11:12:33

End at: 2018-07-17 11:13:04

Local clock offset: -9.645 ms

Remote clock offset: 0.922 ms

Below is generated by plot.py at 2018-07-17 13:41:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.63 Mbit/s

95th percentile per-packet one-way delay: 109.051 ms

Loss rate: 2.94%

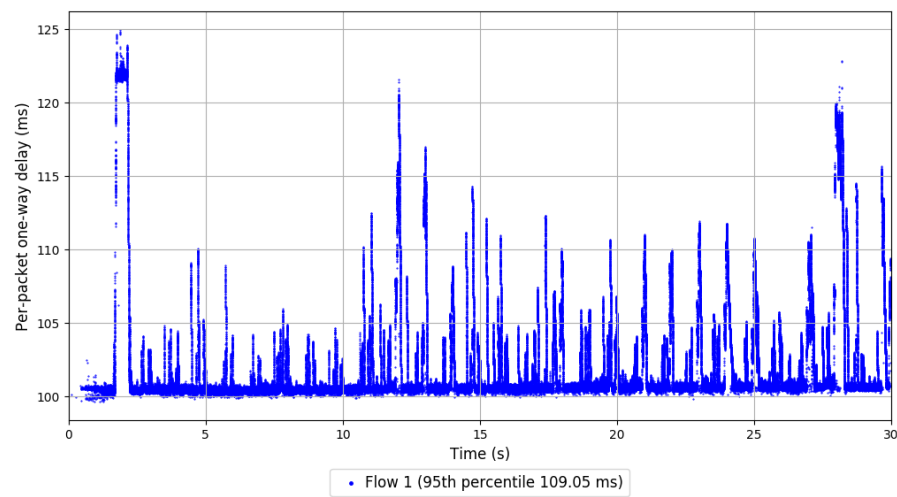
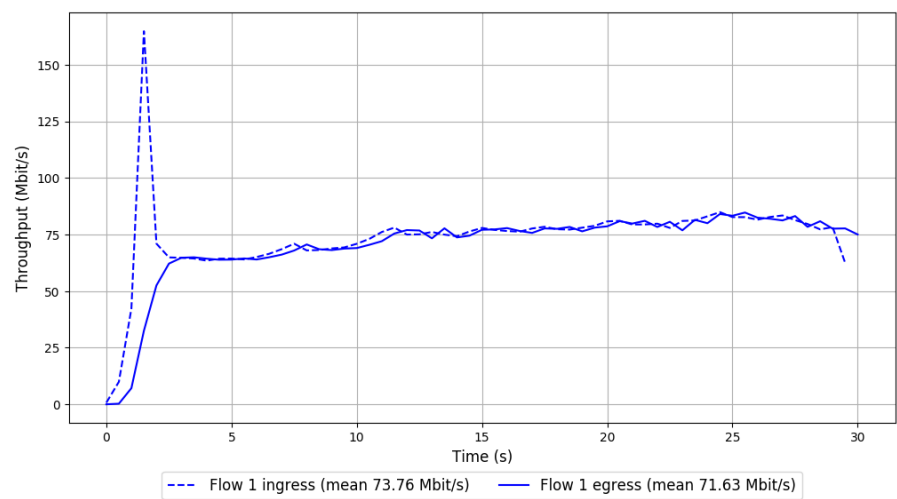
-- Flow 1:

Average throughput: 71.63 Mbit/s

95th percentile per-packet one-way delay: 109.051 ms

Loss rate: 2.94%

Run 6: Report of PCC-Allegro — Data Link



Run 7: Statistics of PCC-Allegro

Start at: 2018-07-17 11:42:34

End at: 2018-07-17 11:43:04

Local clock offset: -4.4 ms

Remote clock offset: 0.704 ms

Below is generated by plot.py at 2018-07-17 13:41:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 70.48 Mbit/s

95th percentile per-packet one-way delay: 100.732 ms

Loss rate: 3.05%

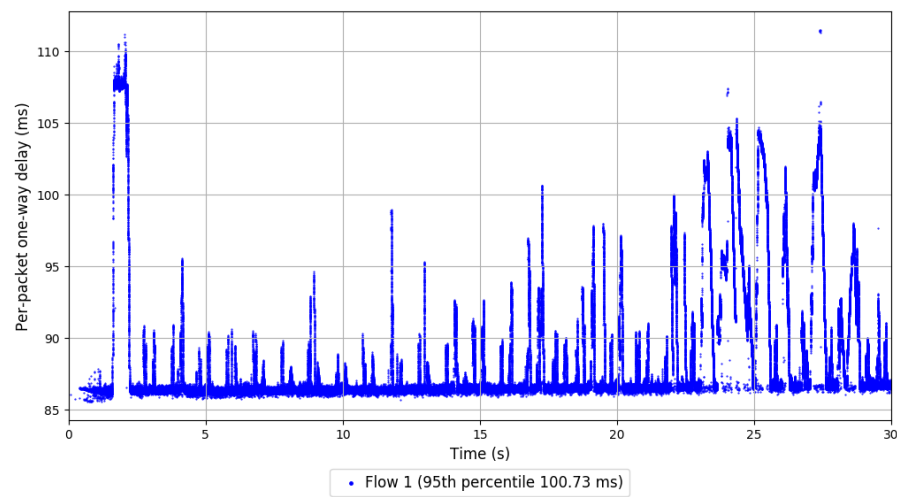
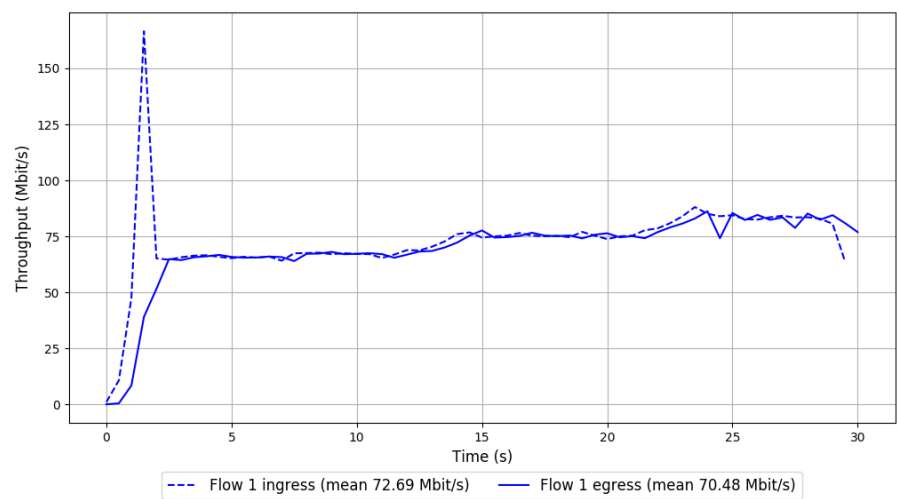
-- Flow 1:

Average throughput: 70.48 Mbit/s

95th percentile per-packet one-way delay: 100.732 ms

Loss rate: 3.05%

Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-07-17 12:14:24

End at: 2018-07-17 12:14:54

Local clock offset: 3.718 ms

Remote clock offset: 0.48 ms

Below is generated by plot.py at 2018-07-17 13:41:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.46 Mbit/s

95th percentile per-packet one-way delay: 103.370 ms

Loss rate: 4.01%

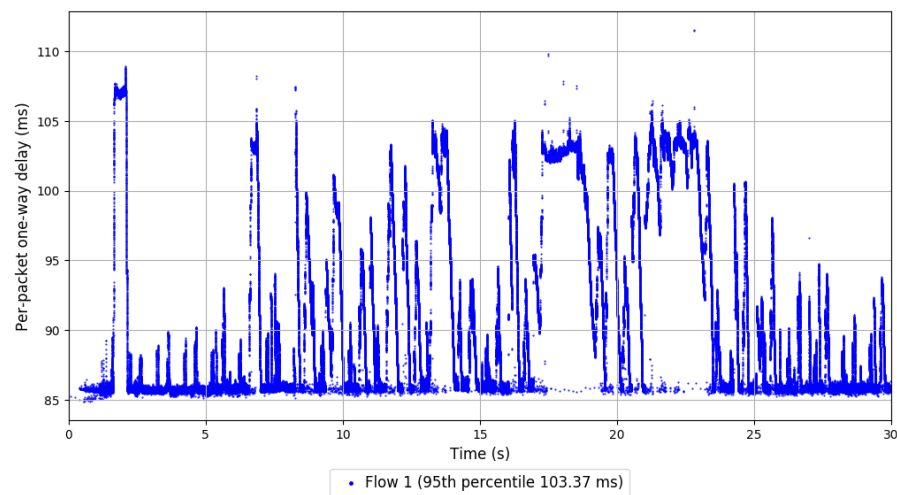
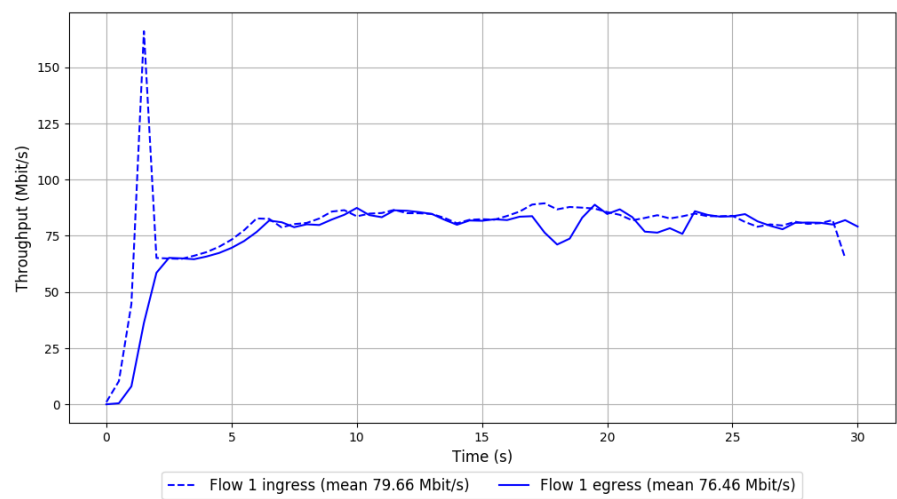
-- Flow 1:

Average throughput: 76.46 Mbit/s

95th percentile per-packet one-way delay: 103.370 ms

Loss rate: 4.01%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-07-17 12:45:05

End at: 2018-07-17 12:45:35

Local clock offset: 5.885 ms

Remote clock offset: 0.36 ms

Below is generated by plot.py at 2018-07-17 13:42:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 67.29 Mbit/s

95th percentile per-packet one-way delay: 120.604 ms

Loss rate: 4.67%

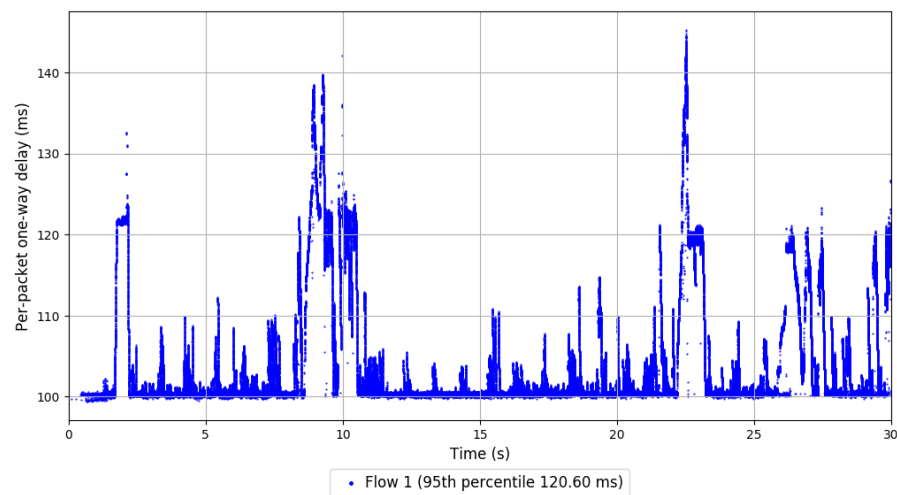
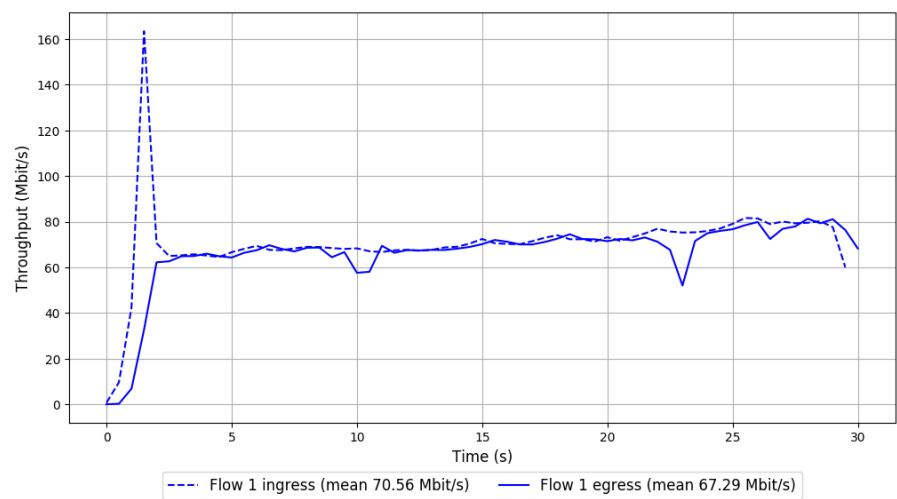
-- Flow 1:

Average throughput: 67.29 Mbit/s

95th percentile per-packet one-way delay: 120.604 ms

Loss rate: 4.67%

Run 9: Report of PCC-Allegro — Data Link



Run 10: Statistics of PCC-Allegro

Start at: 2018-07-17 13:14:54

End at: 2018-07-17 13:15:24

Local clock offset: 6.066 ms

Remote clock offset: 0.149 ms

Below is generated by plot.py at 2018-07-17 13:42:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 38.56 Mbit/s

95th percentile per-packet one-way delay: 125.663 ms

Loss rate: 36.62%

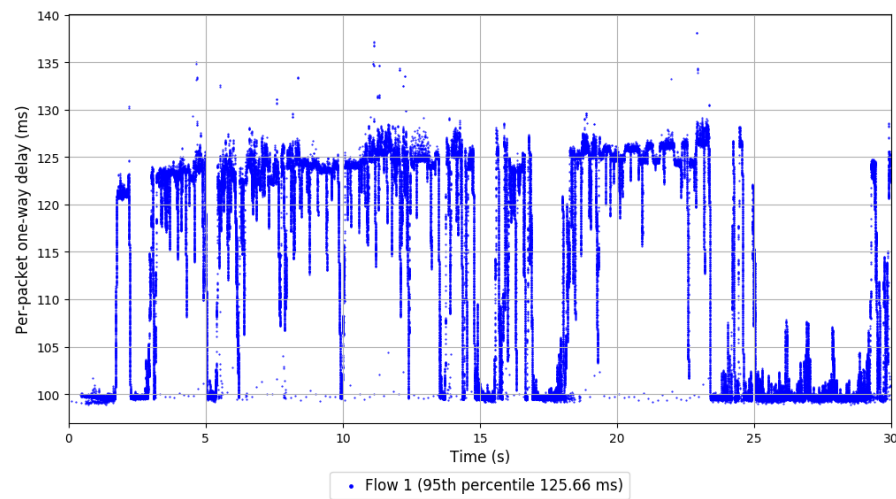
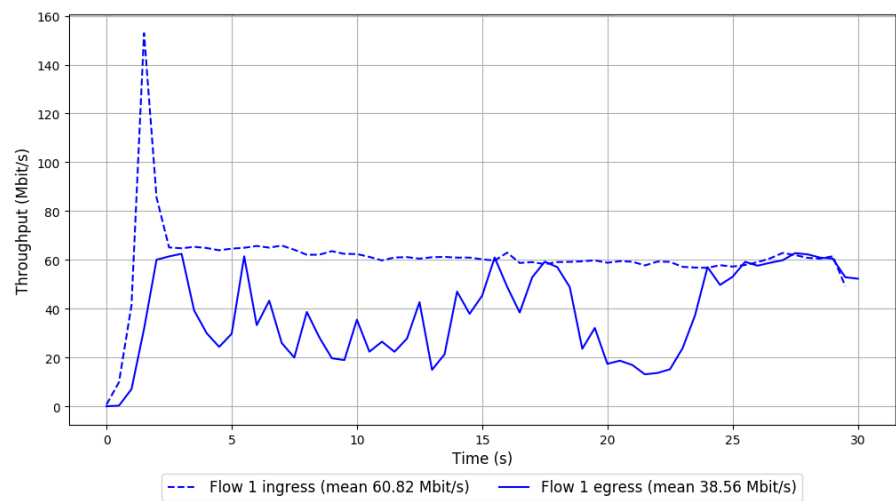
-- Flow 1:

Average throughput: 38.56 Mbit/s

95th percentile per-packet one-way delay: 125.663 ms

Loss rate: 36.62%

Run 10: Report of PCC-Allegro — Data Link

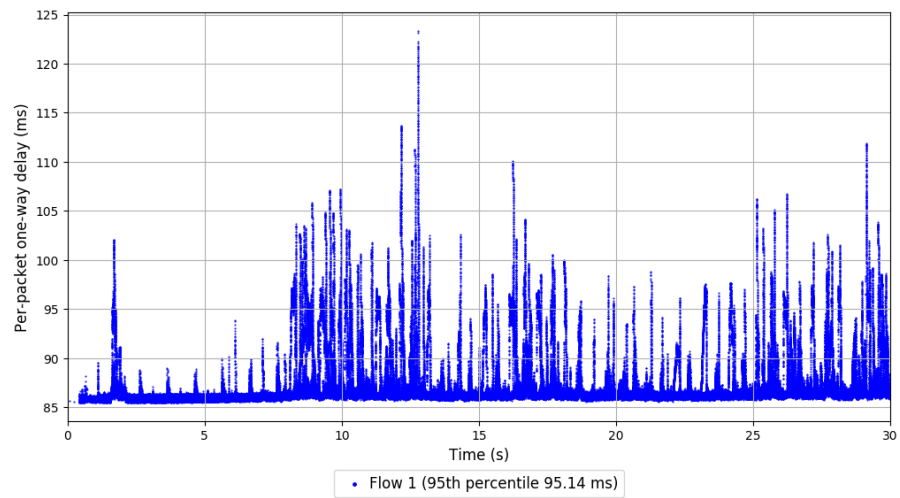
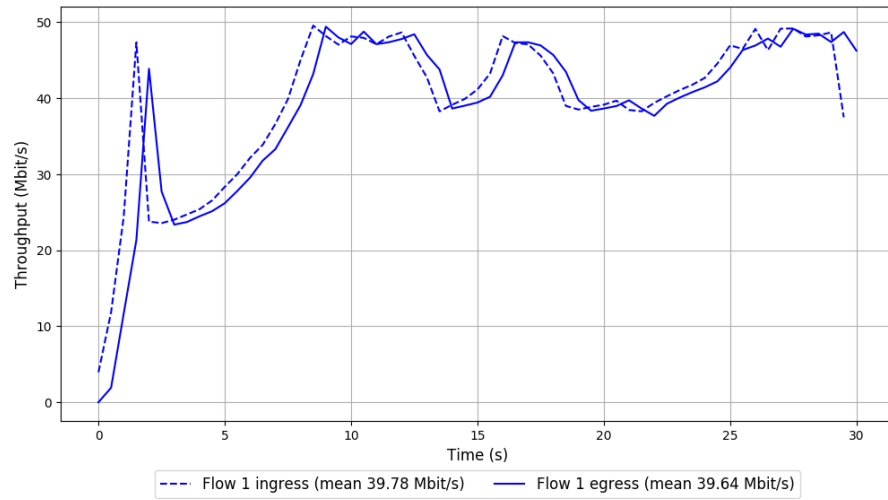


```
Run 1: Statistics of PCC-Expr

Start at: 2018-07-17 09:00:43
End at: 2018-07-17 09:01:13
Local clock offset: 13.127 ms
Remote clock offset: 0.631 ms

# Below is generated by plot.py at 2018-07-17 13:42:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 39.64 Mbit/s
95th percentile per-packet one-way delay: 95.142 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 39.64 Mbit/s
95th percentile per-packet one-way delay: 95.142 ms
Loss rate: 0.35%
```


Run 1: Report of PCC-Expr — Data Link



Run 2: Statistics of PCC-Expr

Start at: 2018-07-17 09:27:46

End at: 2018-07-17 09:28:16

Local clock offset: 6.413 ms

Remote clock offset: 0.743 ms

Below is generated by plot.py at 2018-07-17 13:42:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 38.14 Mbit/s

95th percentile per-packet one-way delay: 94.140 ms

Loss rate: 3.57%

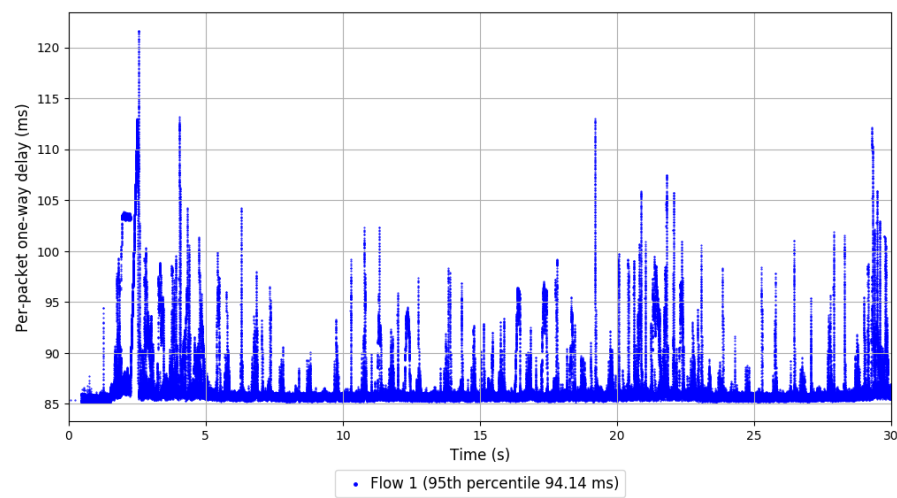
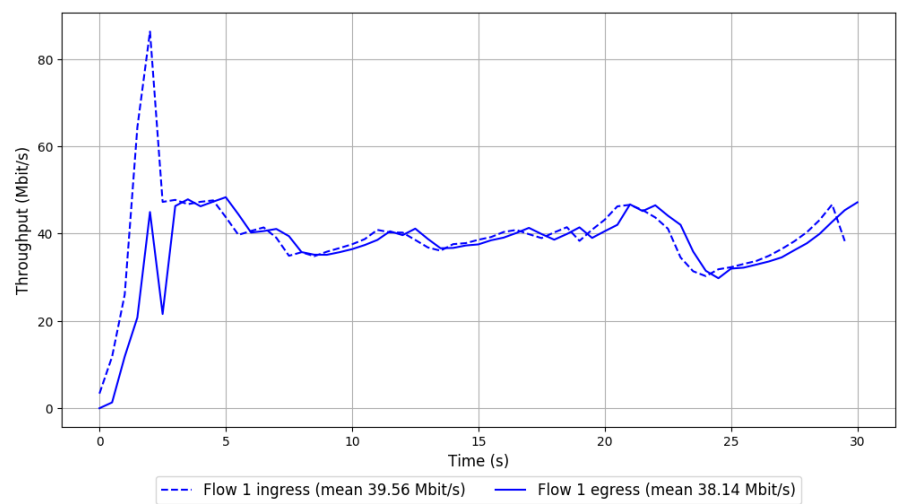
-- Flow 1:

Average throughput: 38.14 Mbit/s

95th percentile per-packet one-way delay: 94.140 ms

Loss rate: 3.57%

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2018-07-17 09:55:10

End at: 2018-07-17 09:55:40

Local clock offset: -3.756 ms

Remote clock offset: 1.119 ms

Below is generated by plot.py at 2018-07-17 13:42:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 36.75 Mbit/s

95th percentile per-packet one-way delay: 108.805 ms

Loss rate: 0.08%

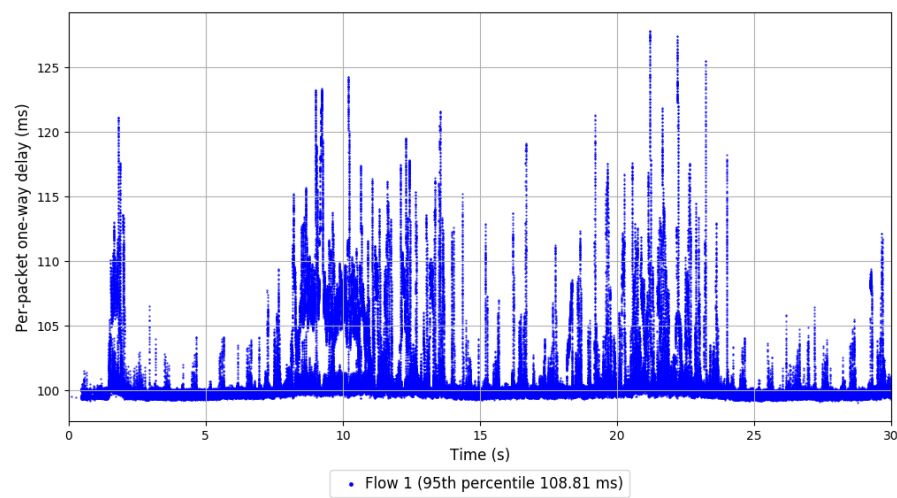
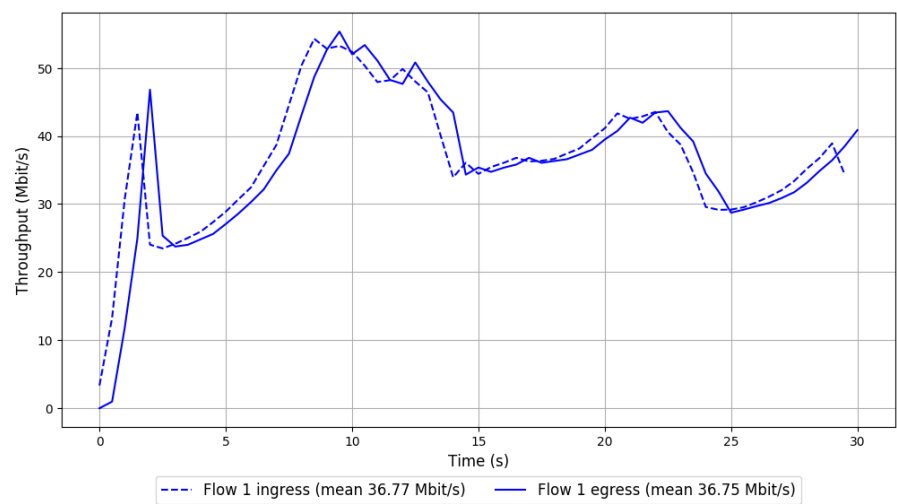
-- Flow 1:

Average throughput: 36.75 Mbit/s

95th percentile per-packet one-way delay: 108.805 ms

Loss rate: 0.08%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2018-07-17 10:21:47

End at: 2018-07-17 10:22:17

Local clock offset: -2.008 ms

Remote clock offset: 1.3 ms

Below is generated by plot.py at 2018-07-17 13:42:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 39.75 Mbit/s

95th percentile per-packet one-way delay: 94.450 ms

Loss rate: 2.71%

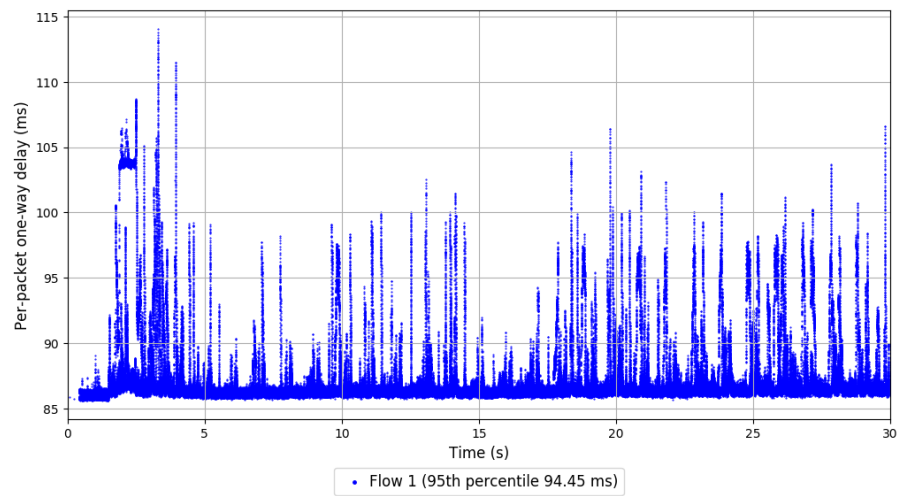
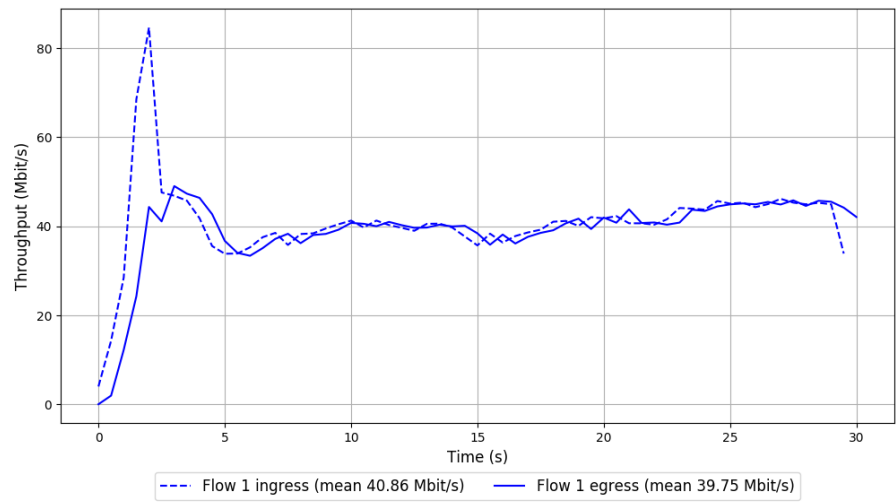
-- Flow 1:

Average throughput: 39.75 Mbit/s

95th percentile per-packet one-way delay: 94.450 ms

Loss rate: 2.71%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2018-07-17 10:47:49

End at: 2018-07-17 10:48:19

Local clock offset: -5.161 ms

Remote clock offset: 1.111 ms

Below is generated by plot.py at 2018-07-17 13:42:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 37.85 Mbit/s

95th percentile per-packet one-way delay: 92.416 ms

Loss rate: 2.91%

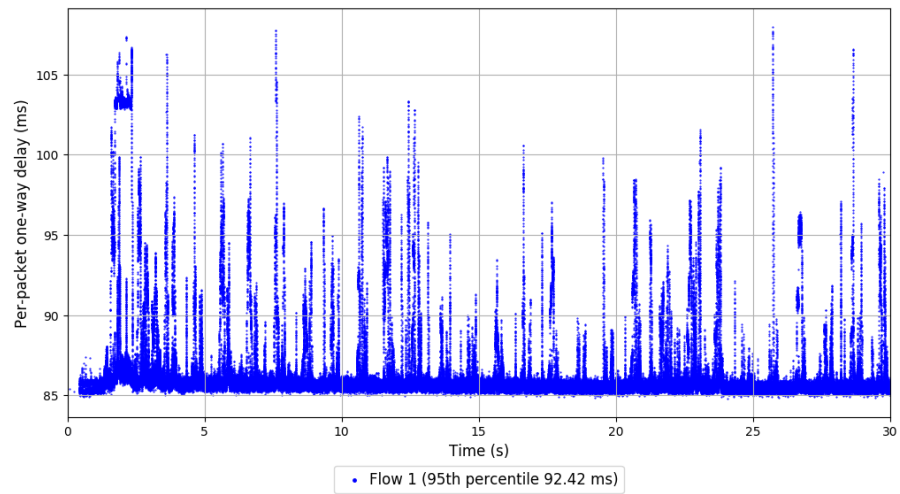
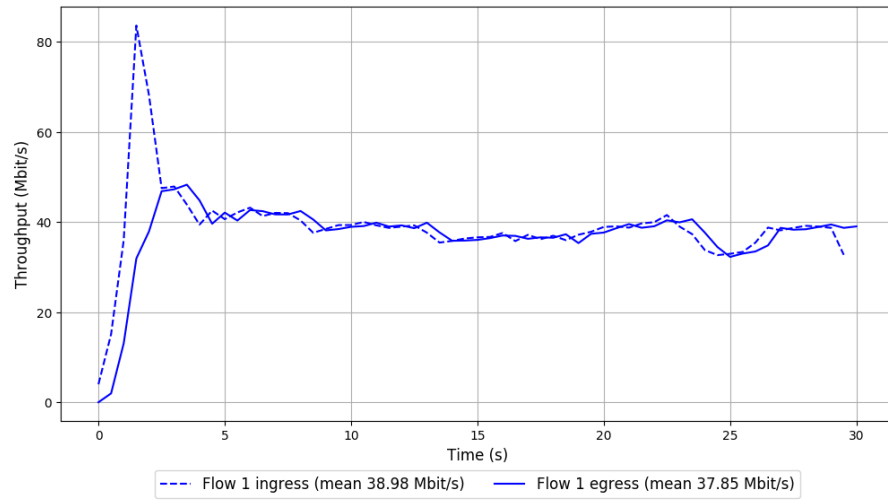
-- Flow 1:

Average throughput: 37.85 Mbit/s

95th percentile per-packet one-way delay: 92.416 ms

Loss rate: 2.91%

Run 5: Report of PCC-Expr — Data Link



Run 6: Statistics of PCC-Expr

Start at: 2018-07-17 11:14:27

End at: 2018-07-17 11:14:57

Local clock offset: -8.77 ms

Remote clock offset: 0.869 ms

Below is generated by plot.py at 2018-07-17 13:42:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 37.91 Mbit/s

95th percentile per-packet one-way delay: 110.436 ms

Loss rate: 4.16%

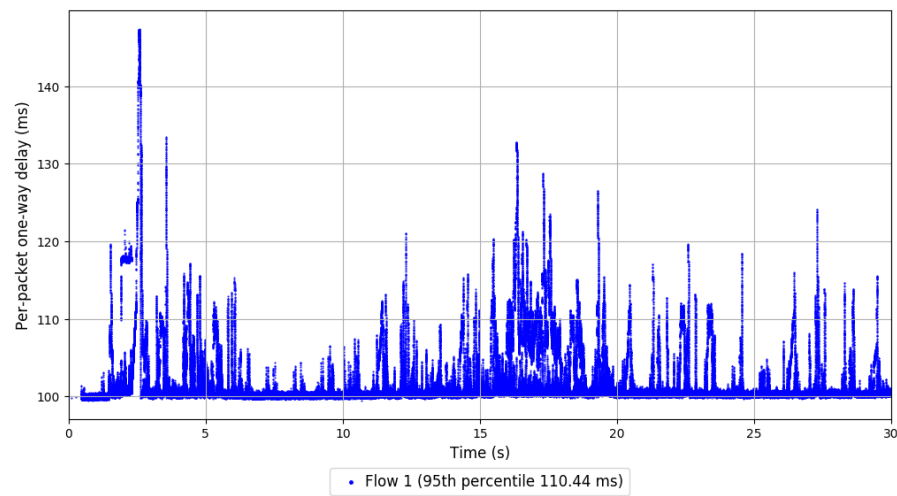
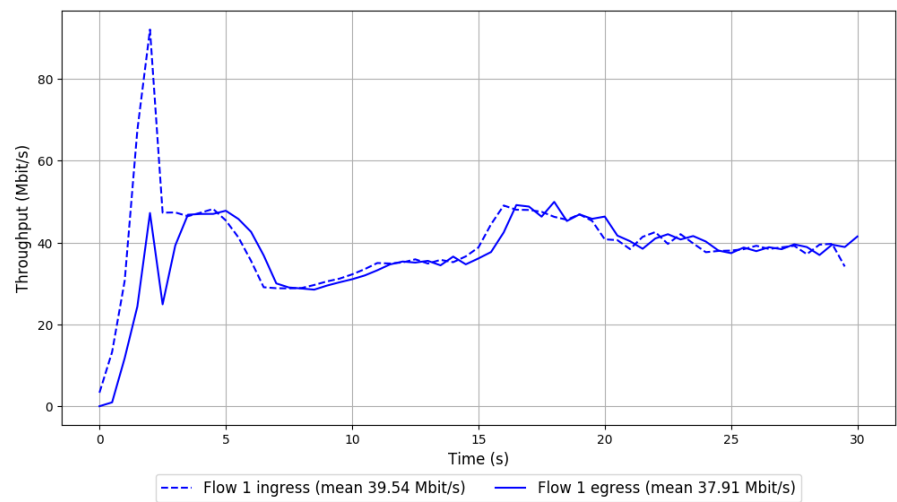
-- Flow 1:

Average throughput: 37.91 Mbit/s

95th percentile per-packet one-way delay: 110.436 ms

Loss rate: 4.16%

Run 6: Report of PCC-Expr — Data Link



Run 7: Statistics of PCC-Expr

Start at: 2018-07-17 11:44:51

End at: 2018-07-17 11:45:21

Local clock offset: -2.943 ms

Remote clock offset: 0.624 ms

Below is generated by plot.py at 2018-07-17 13:43:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 39.56 Mbit/s

95th percentile per-packet one-way delay: 109.933 ms

Loss rate: 3.34%

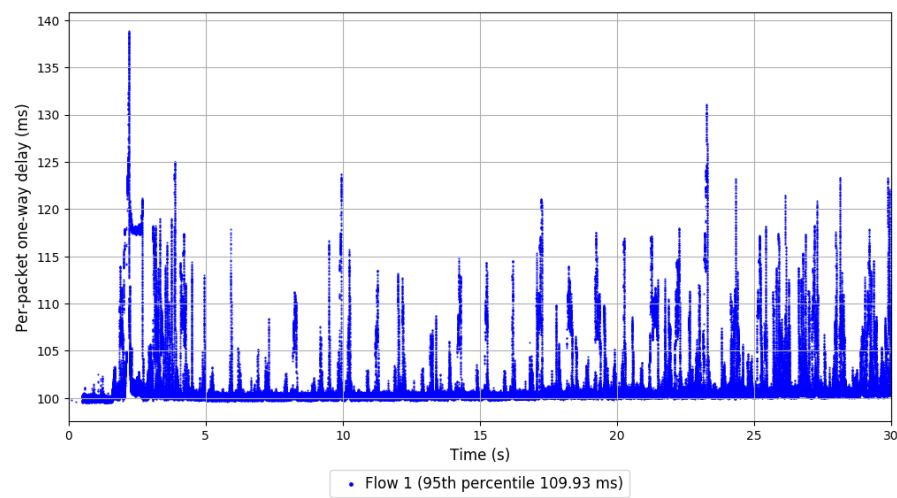
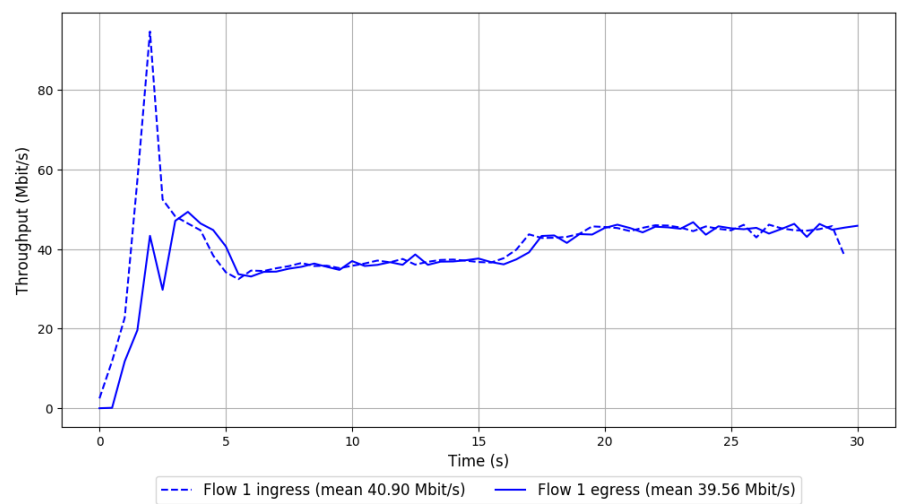
-- Flow 1:

Average throughput: 39.56 Mbit/s

95th percentile per-packet one-way delay: 109.933 ms

Loss rate: 3.34%

Run 7: Report of PCC-Expr — Data Link



Run 8: Statistics of PCC-Expr

Start at: 2018-07-17 12:16:40

End at: 2018-07-17 12:17:10

Local clock offset: 3.756 ms

Remote clock offset: 0.498 ms

Below is generated by plot.py at 2018-07-17 13:43:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 41.25 Mbit/s

95th percentile per-packet one-way delay: 113.015 ms

Loss rate: 4.67%

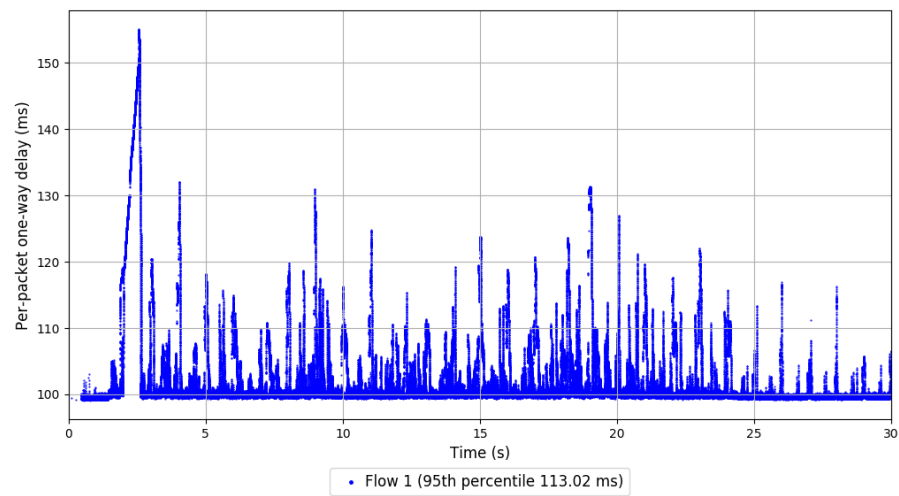
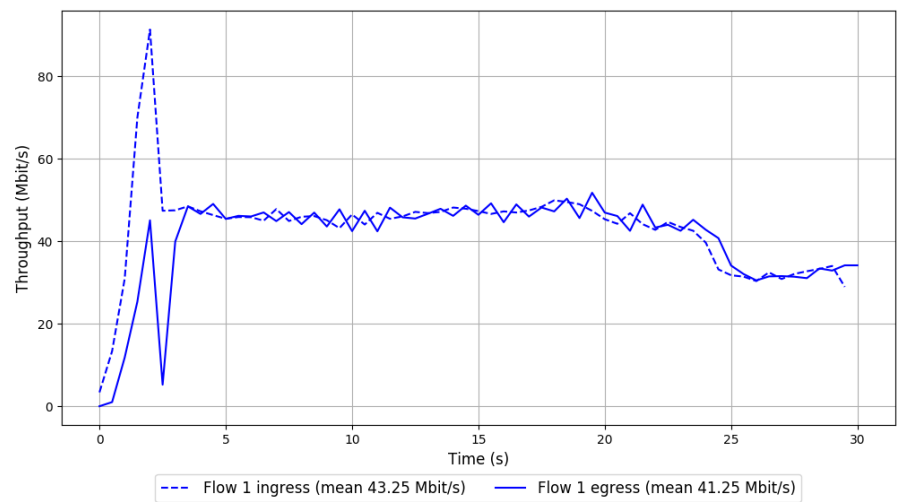
-- Flow 1:

Average throughput: 41.25 Mbit/s

95th percentile per-packet one-way delay: 113.015 ms

Loss rate: 4.67%

Run 8: Report of PCC-Expr — Data Link



Run 9: Statistics of PCC-Expr

Start at: 2018-07-17 12:47:07

End at: 2018-07-17 12:47:37

Local clock offset: 5.936 ms

Remote clock offset: 0.299 ms

Below is generated by plot.py at 2018-07-17 13:43:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 38.39 Mbit/s

95th percentile per-packet one-way delay: 104.548 ms

Loss rate: 2.02%

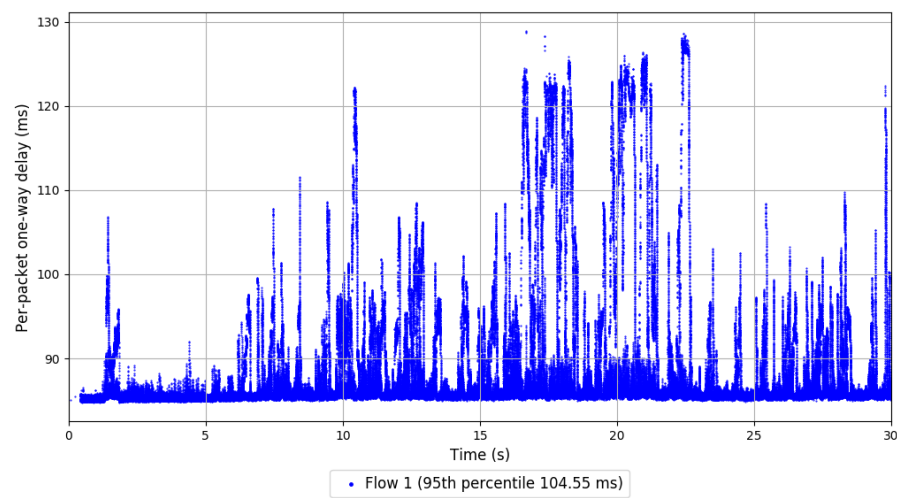
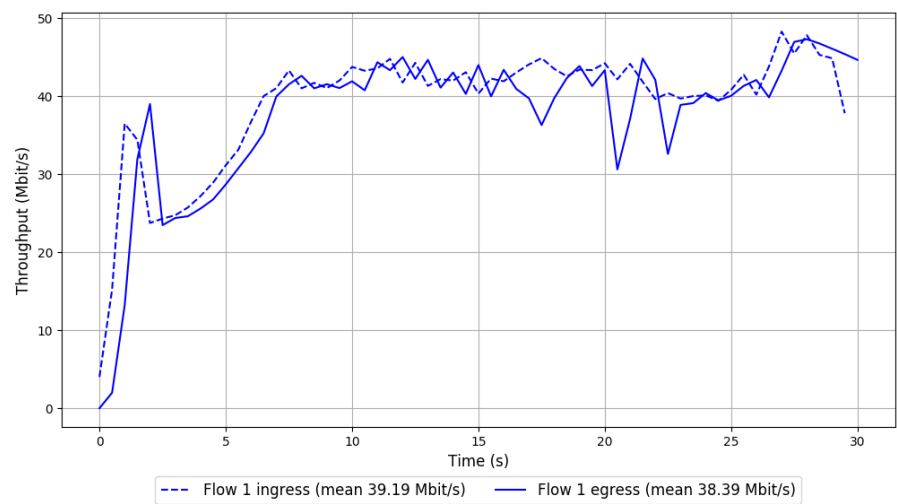
-- Flow 1:

Average throughput: 38.39 Mbit/s

95th percentile per-packet one-way delay: 104.548 ms

Loss rate: 2.02%

Run 9: Report of PCC-Expr — Data Link



Run 10: Statistics of PCC-Expr

Start at: 2018-07-17 13:16:30

End at: 2018-07-17 13:17:00

Local clock offset: 5.301 ms

Remote clock offset: 0.131 ms

Below is generated by plot.py at 2018-07-17 13:43:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 23.47 Mbit/s

95th percentile per-packet one-way delay: 125.832 ms

Loss rate: 2.67%

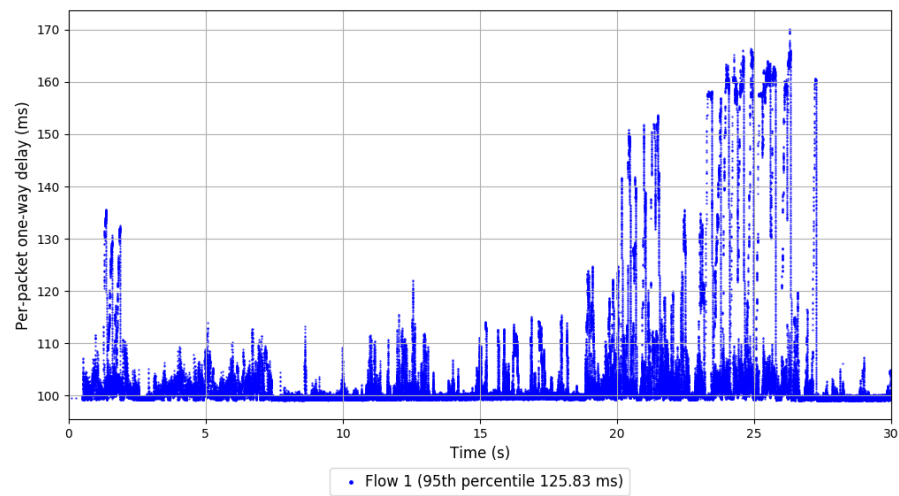
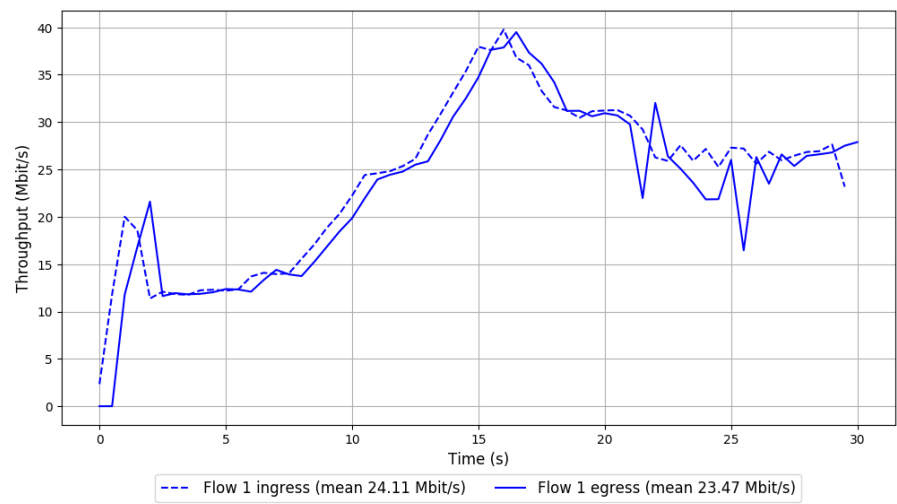
-- Flow 1:

Average throughput: 23.47 Mbit/s

95th percentile per-packet one-way delay: 125.832 ms

Loss rate: 2.67%

Run 10: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

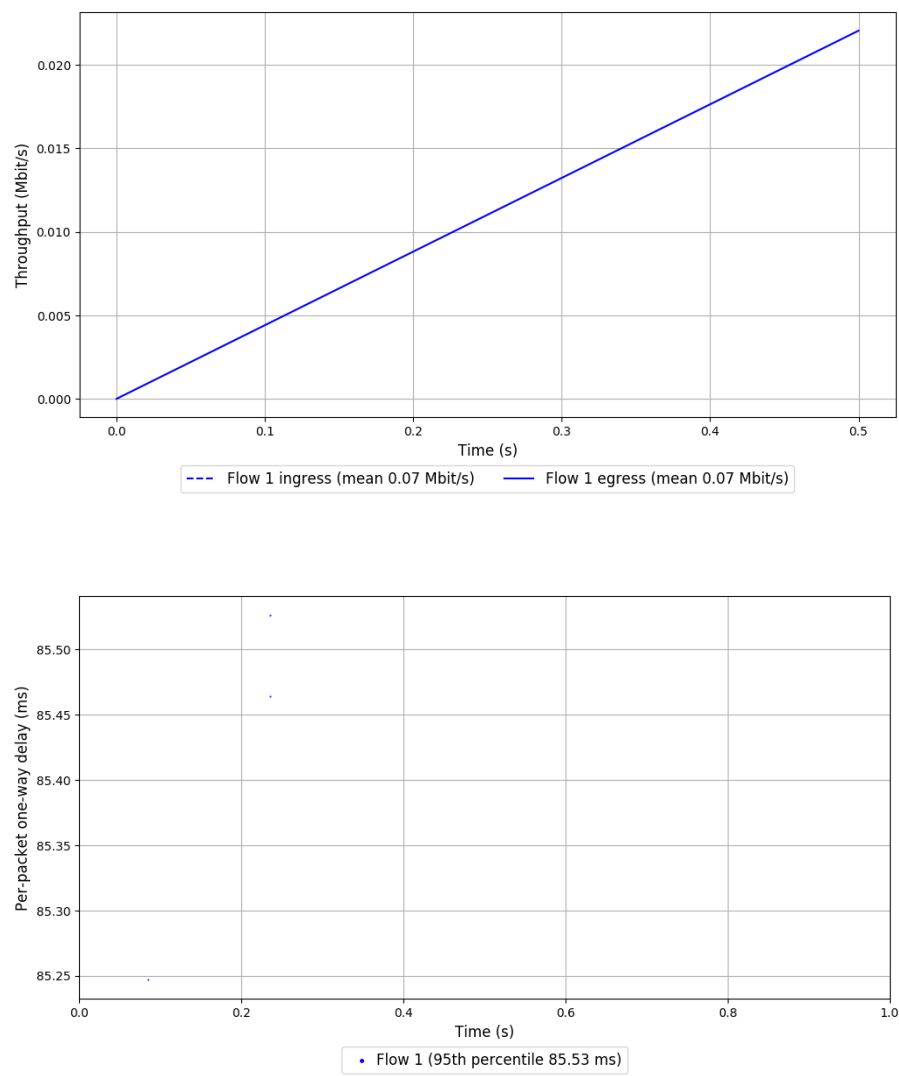
Start at: 2018-07-17 09:10:04

End at: 2018-07-17 09:10:34

Local clock offset: 16.115 ms

Remote clock offset: 0.676 ms

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-07-17 09:37:06

End at: 2018-07-17 09:37:36

Local clock offset: 6.771 ms

Remote clock offset: 0.885 ms

Below is generated by plot.py at 2018-07-17 13:43:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.01 Mbit/s

95th percentile per-packet one-way delay: 100.686 ms

Loss rate: 0.08%

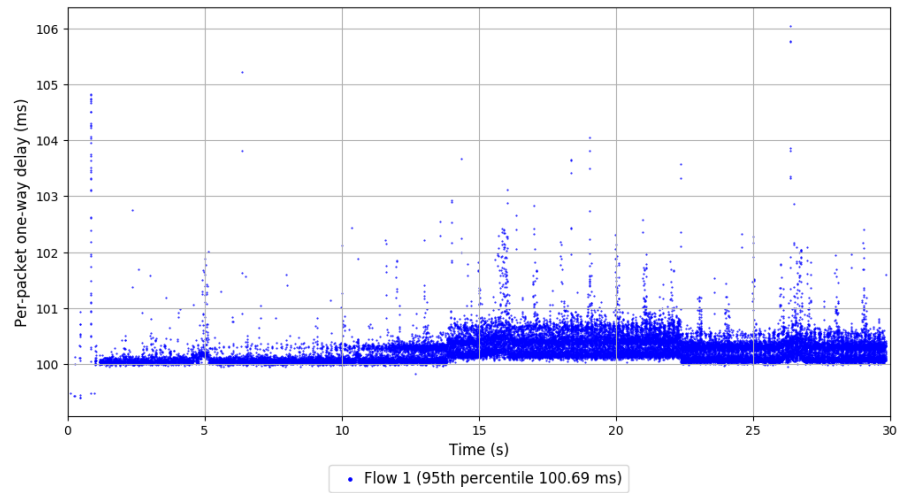
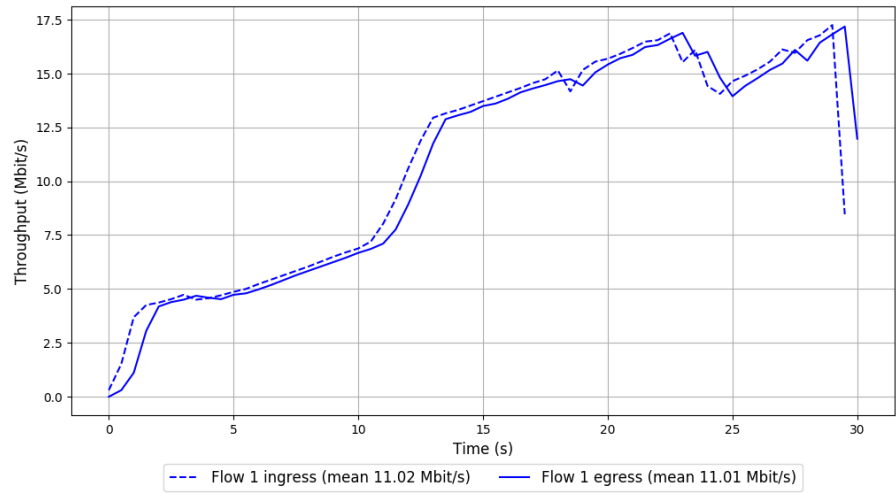
-- Flow 1:

Average throughput: 11.01 Mbit/s

95th percentile per-packet one-way delay: 100.686 ms

Loss rate: 0.08%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-07-17 10:04:44

End at: 2018-07-17 10:05:14

Local clock offset: -5.39 ms

Remote clock offset: 1.13 ms

Below is generated by plot.py at 2018-07-17 13:43:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 38.00 Mbit/s

95th percentile per-packet one-way delay: 107.639 ms

Loss rate: 1.50%

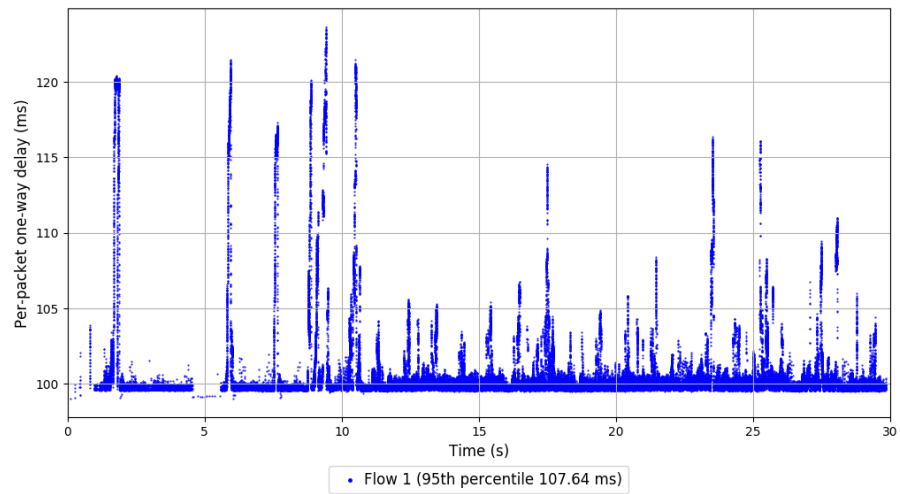
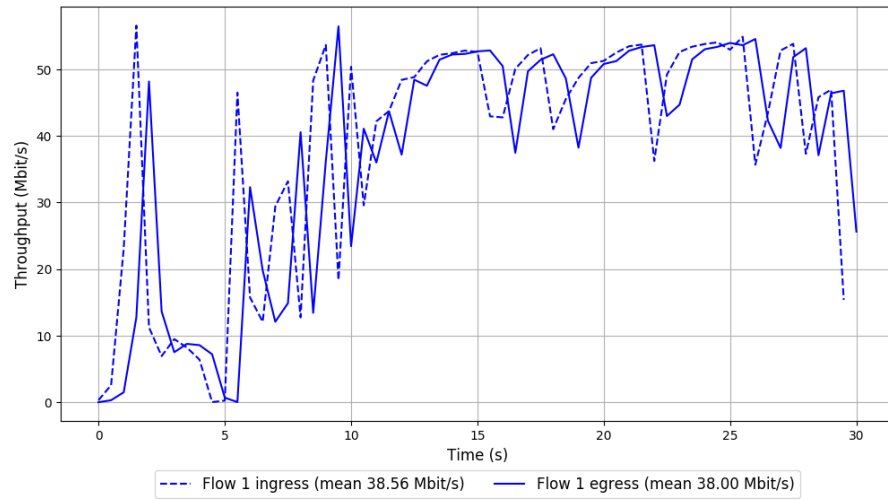
-- Flow 1:

Average throughput: 38.00 Mbit/s

95th percentile per-packet one-way delay: 107.639 ms

Loss rate: 1.50%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-07-17 10:30:41

End at: 2018-07-17 10:31:11

Local clock offset: -0.691 ms

Remote clock offset: 1.202 ms

Below is generated by plot.py at 2018-07-17 13:43:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 23.78 Mbit/s

95th percentile per-packet one-way delay: 95.250 ms

Loss rate: 2.03%

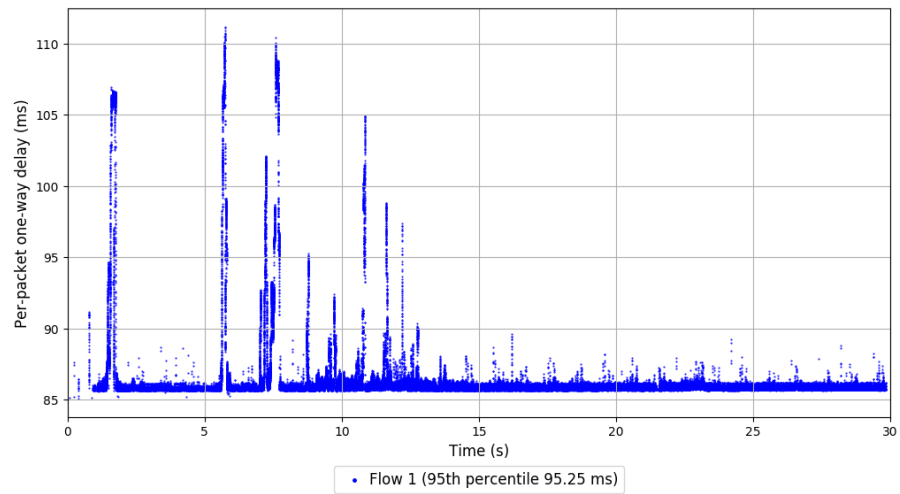
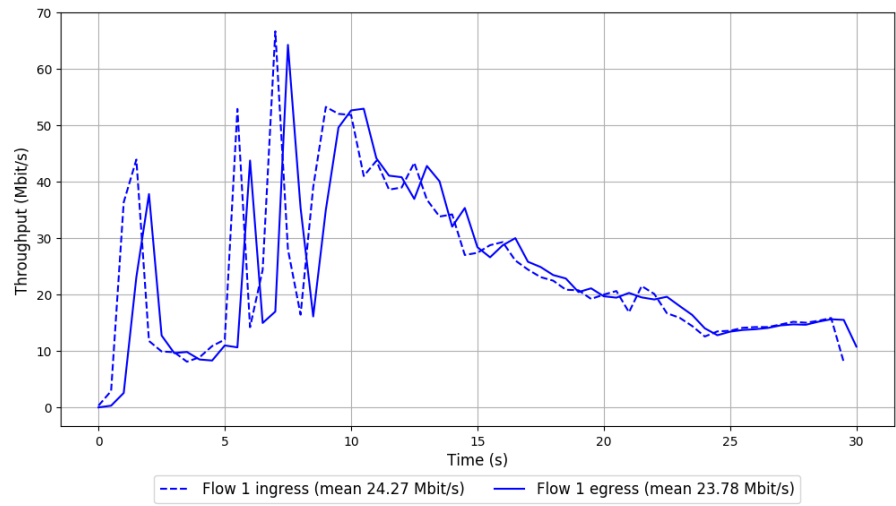
-- Flow 1:

Average throughput: 23.78 Mbit/s

95th percentile per-packet one-way delay: 95.250 ms

Loss rate: 2.03%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-07-17 10:56:57

End at: 2018-07-17 10:57:27

Local clock offset: -8.253 ms

Remote clock offset: 1.027 ms

Below is generated by plot.py at 2018-07-17 13:43:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 24.77 Mbit/s

95th percentile per-packet one-way delay: 101.598 ms

Loss rate: 1.81%

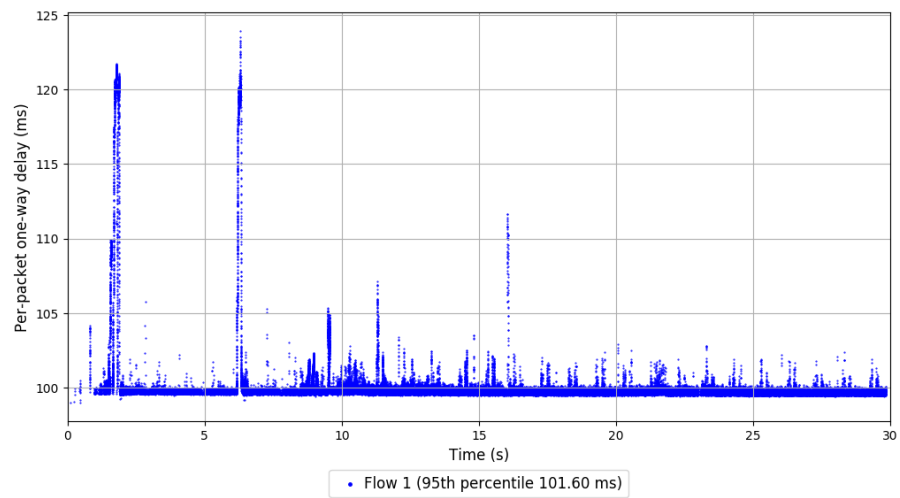
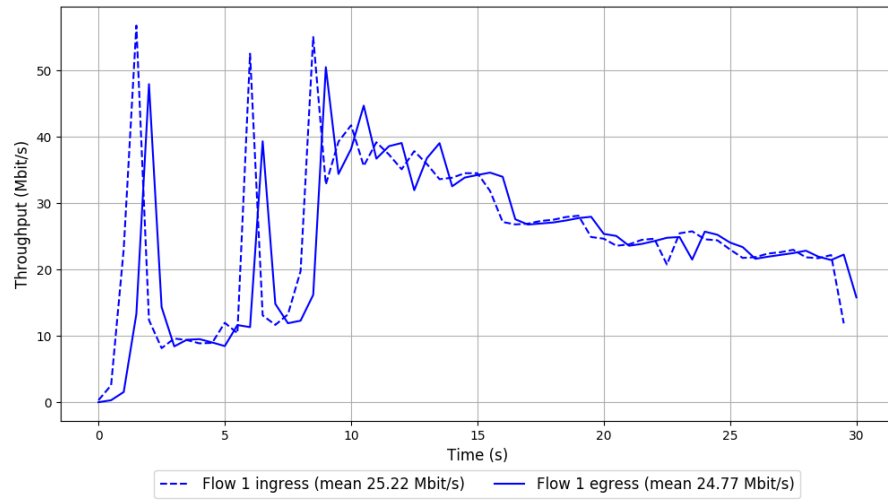
-- Flow 1:

Average throughput: 24.77 Mbit/s

95th percentile per-packet one-way delay: 101.598 ms

Loss rate: 1.81%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-07-17 11:24:15

End at: 2018-07-17 11:24:45

Local clock offset: -6.757 ms

Remote clock offset: 0.744 ms

Below is generated by plot.py at 2018-07-17 13:43:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 20.09 Mbit/s

95th percentile per-packet one-way delay: 86.385 ms

Loss rate: 0.03%

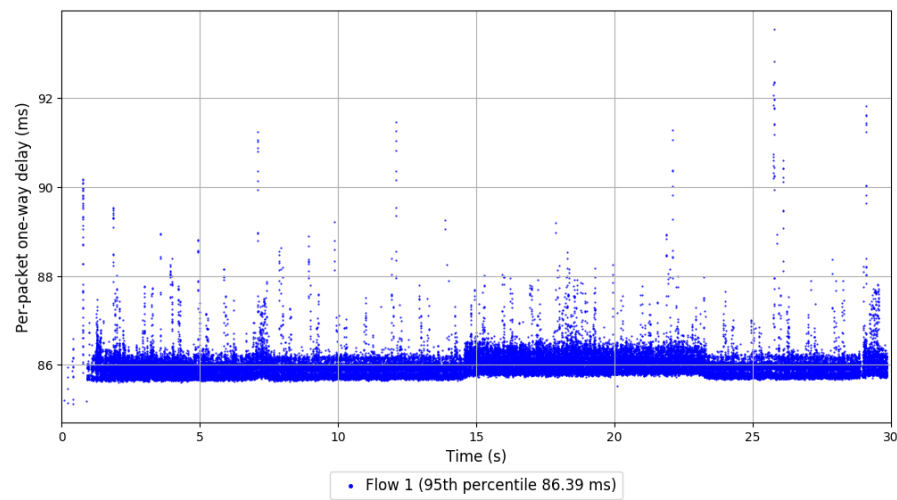
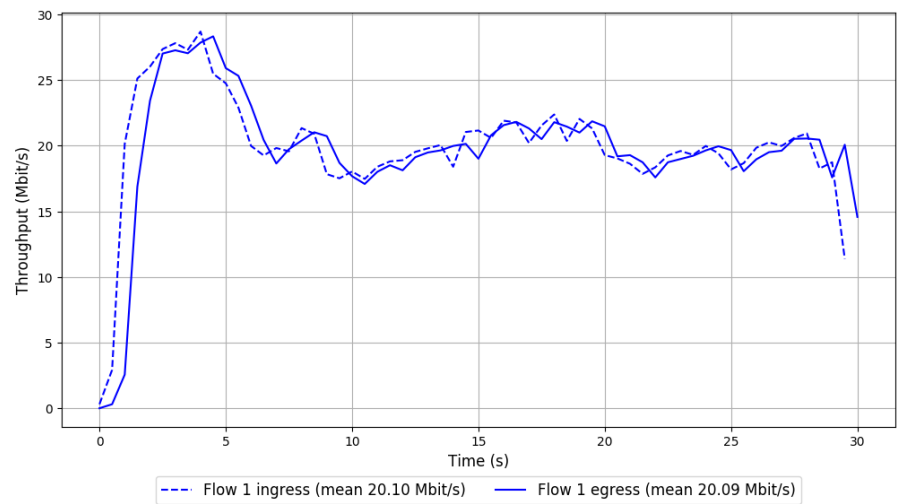
-- Flow 1:

Average throughput: 20.09 Mbit/s

95th percentile per-packet one-way delay: 86.385 ms

Loss rate: 0.03%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-07-17 11:55:53

End at: 2018-07-17 11:56:23

Local clock offset: 1.248 ms

Remote clock offset: 0.459 ms

Below is generated by plot.py at 2018-07-17 13:43:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 27.73 Mbit/s

95th percentile per-packet one-way delay: 104.048 ms

Loss rate: 1.55%

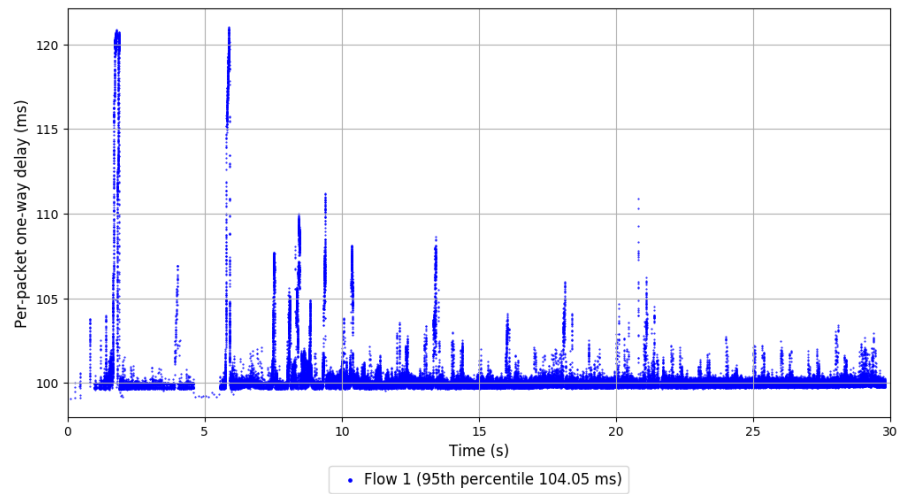
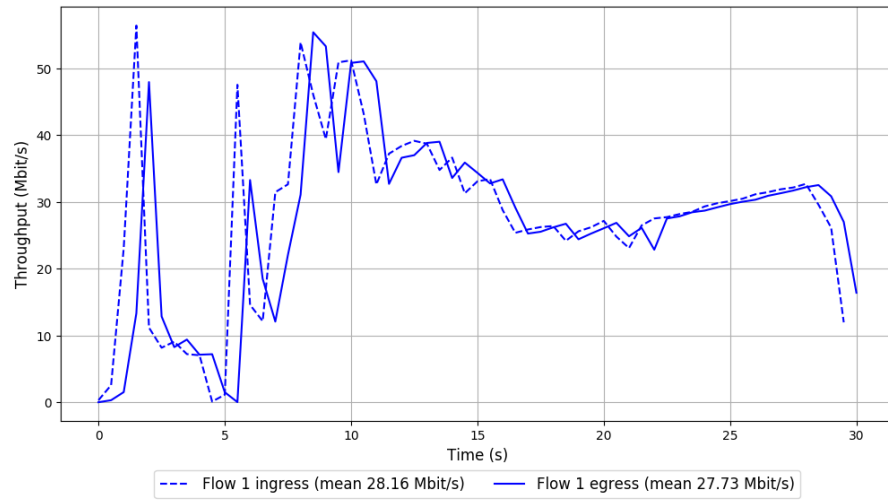
-- Flow 1:

Average throughput: 27.73 Mbit/s

95th percentile per-packet one-way delay: 104.048 ms

Loss rate: 1.55%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-07-17 12:27:41

End at: 2018-07-17 12:28:11

Local clock offset: 4.059 ms

Remote clock offset: 0.402 ms

Below is generated by plot.py at 2018-07-17 13:43:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 28.36 Mbit/s

95th percentile per-packet one-way delay: 94.446 ms

Loss rate: 1.66%

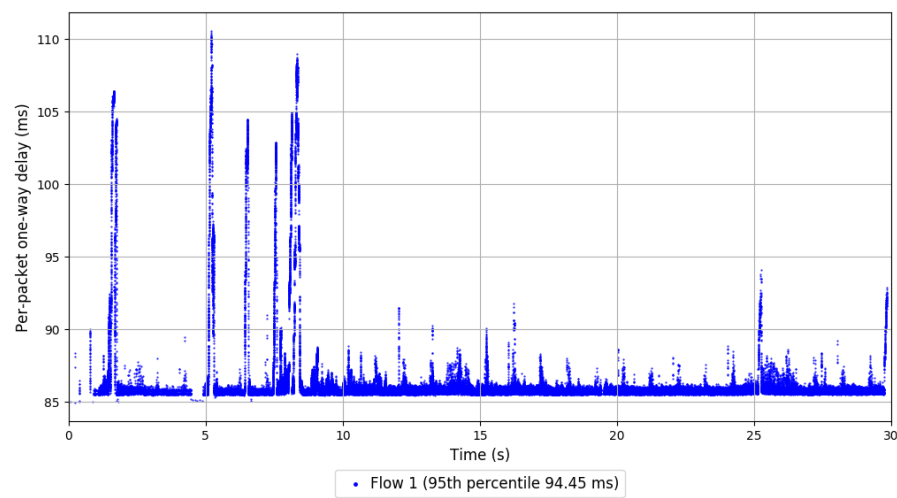
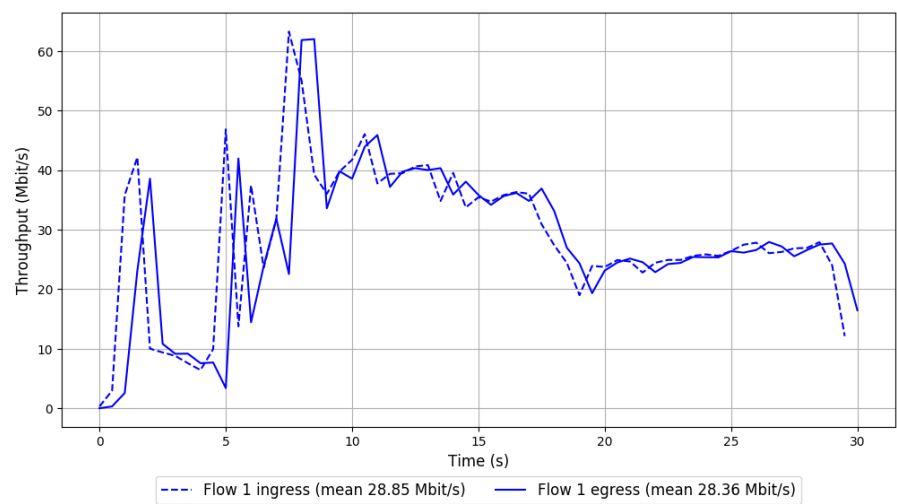
-- Flow 1:

Average throughput: 28.36 Mbit/s

95th percentile per-packet one-way delay: 94.446 ms

Loss rate: 1.66%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-07-17 12:57:23

End at: 2018-07-17 12:57:53

Local clock offset: 6.9 ms

Remote clock offset: 0.232 ms

Below is generated by plot.py at 2018-07-17 13:43:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 32.63 Mbit/s

95th percentile per-packet one-way delay: 89.011 ms

Loss rate: 0.23%

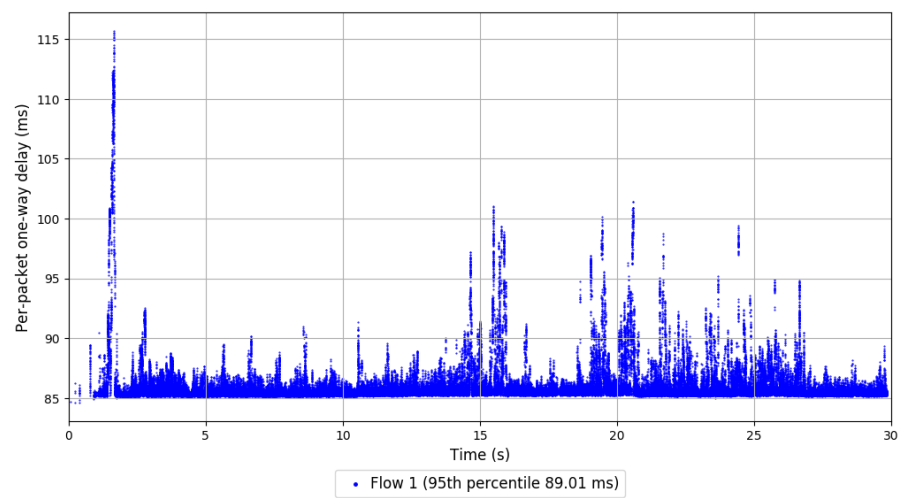
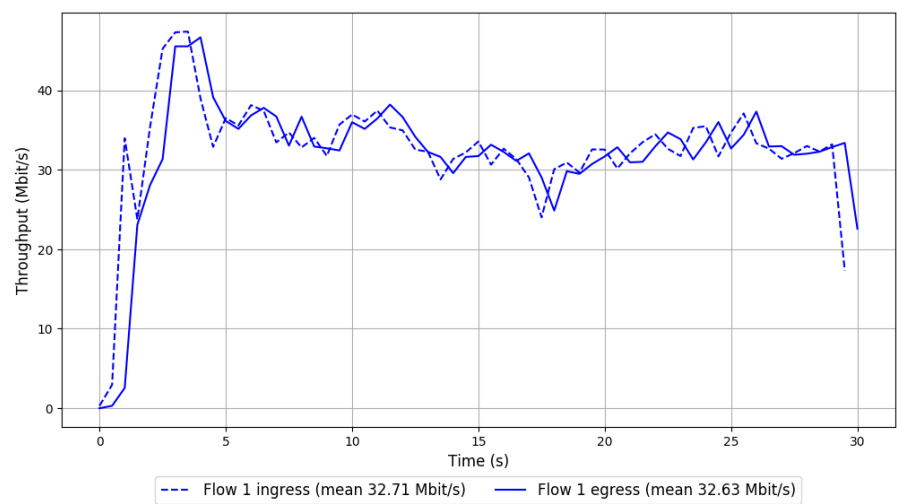
-- Flow 1:

Average throughput: 32.63 Mbit/s

95th percentile per-packet one-way delay: 89.011 ms

Loss rate: 0.23%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-07-17 13:25:40

End at: 2018-07-17 13:26:10

Local clock offset: 3.745 ms

Remote clock offset: 0.102 ms

Below is generated by plot.py at 2018-07-17 13:43:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 27.44 Mbit/s

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

Loss rate: 1.44%

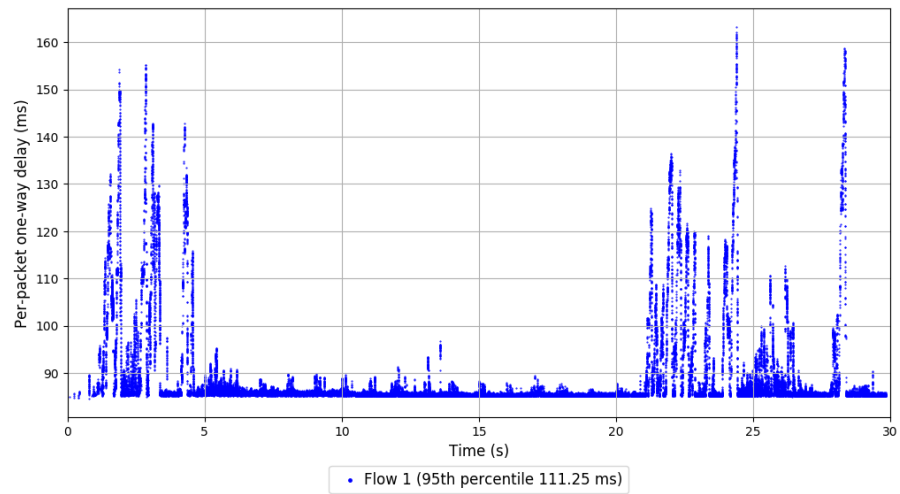
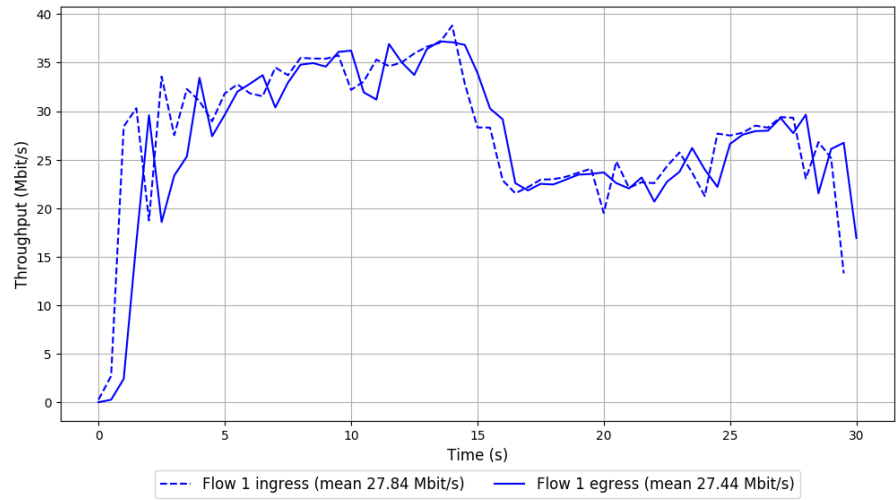
-- Flow 1:

Average throughput: 27.44 Mbit/s

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

Loss rate: 1.44%

Run 10: Report of QUIC Cubic — Data Link

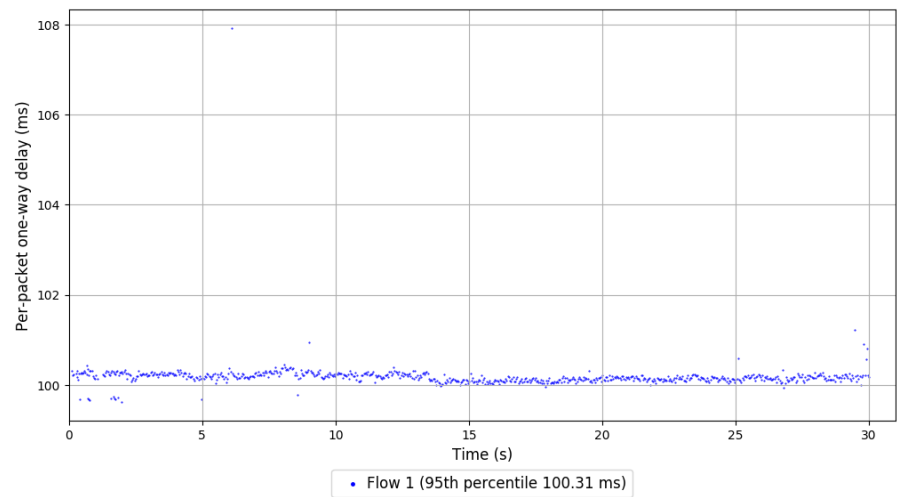
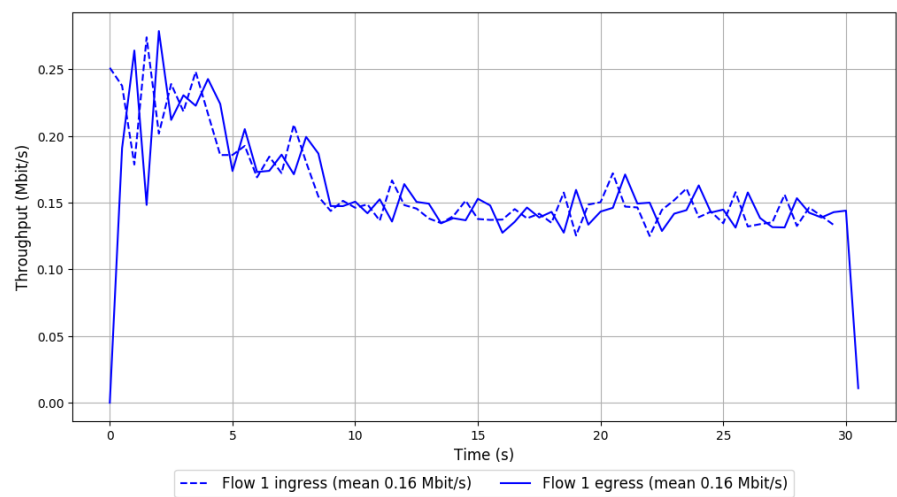


```
Run 1: Statistics of SCReAM

Start at: 2018-07-17 09:04:12
End at: 2018-07-17 09:04:42
Local clock offset: 14.401 ms
Remote clock offset: 0.588 ms

# Below is generated by plot.py at 2018-07-17 13:43:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 100.314 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 100.314 ms
Loss rate: 0.43%
```


Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2018-07-17 09:31:04

End at: 2018-07-17 09:31:34

Local clock offset: 6.411 ms

Remote clock offset: 0.857 ms

Below is generated by plot.py at 2018-07-17 13:43:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 99.891 ms

Loss rate: 0.27%

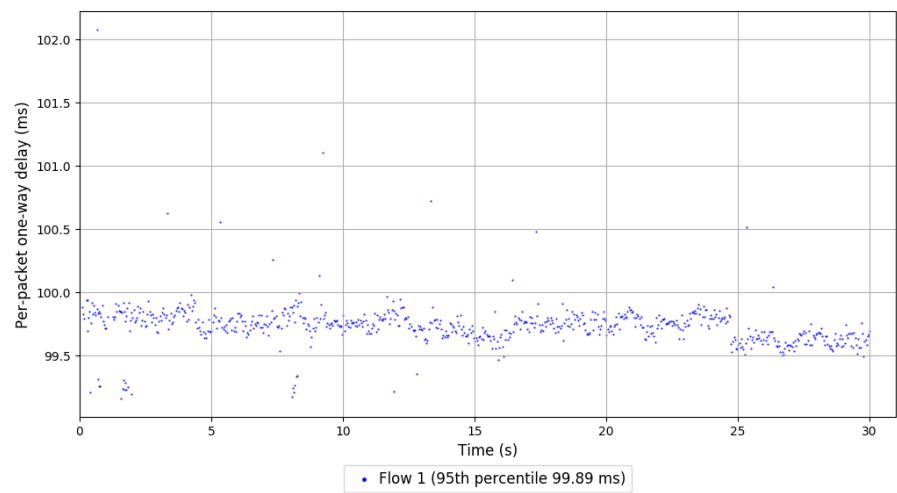
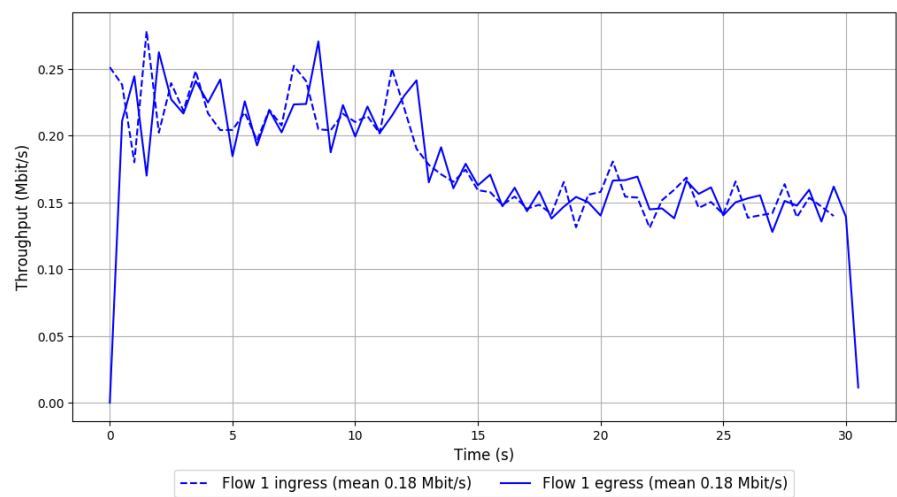
-- Flow 1:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 99.891 ms

Loss rate: 0.27%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-07-17 09:58:24

End at: 2018-07-17 09:58:54

Local clock offset: -4.736 ms

Remote clock offset: 1.232 ms

Below is generated by plot.py at 2018-07-17 13:43:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 100.363 ms

Loss rate: 0.13%

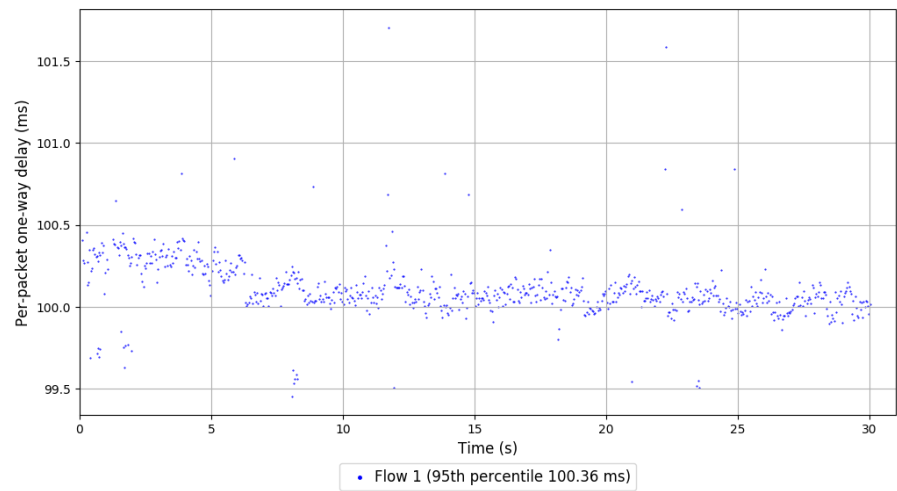
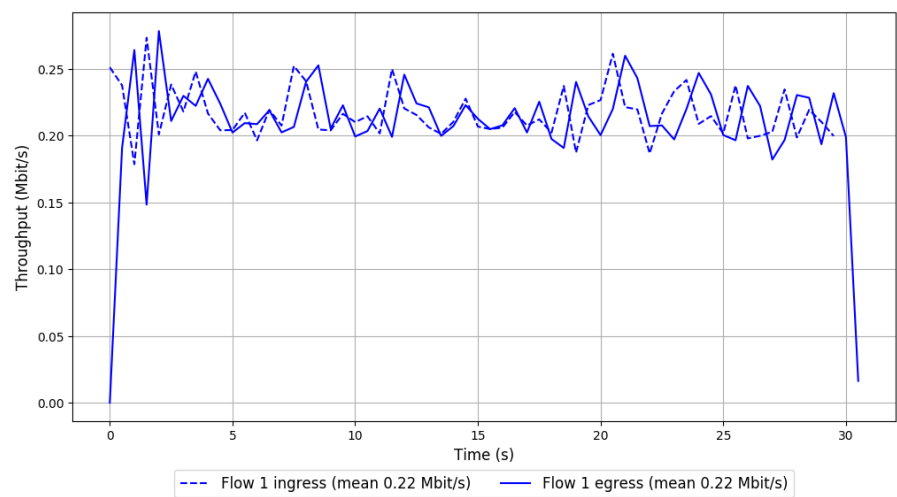
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 100.363 ms

Loss rate: 0.13%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2018-07-17 10:24:42

End at: 2018-07-17 10:25:12

Local clock offset: -1.577 ms

Remote clock offset: 1.213 ms

Below is generated by plot.py at 2018-07-17 13:43:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 100.450 ms

Loss rate: 0.13%

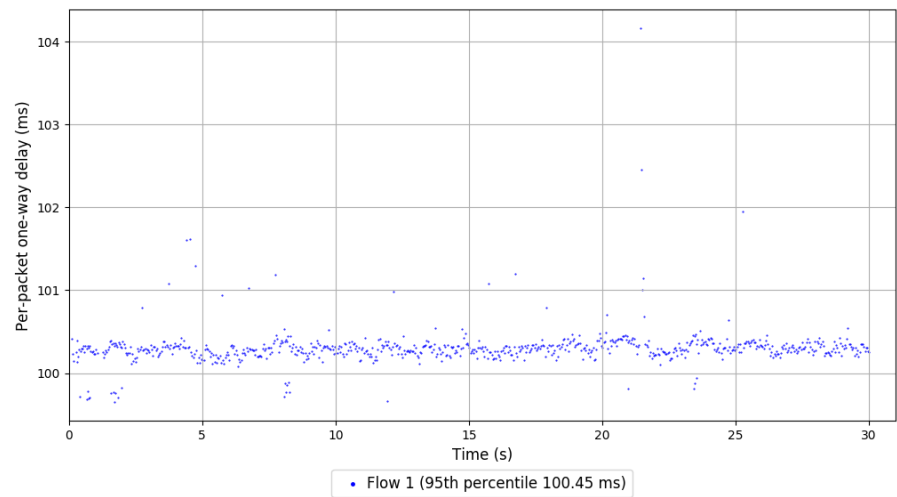
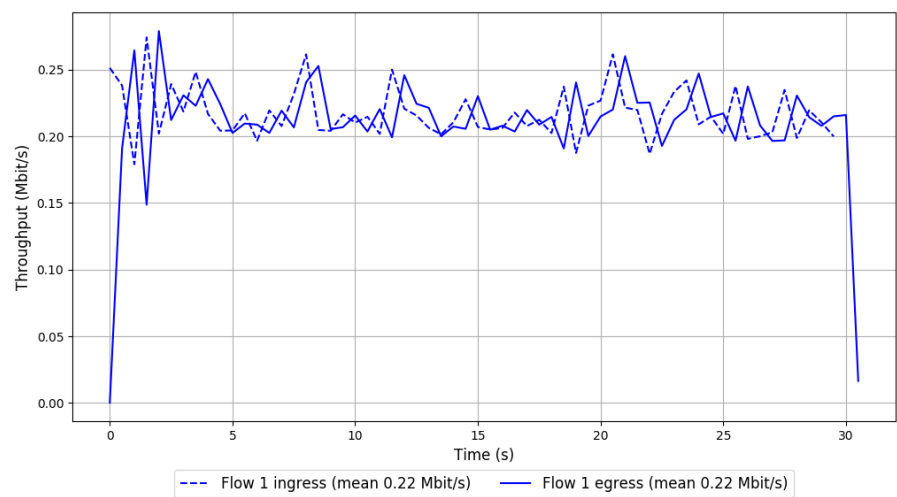
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 100.450 ms

Loss rate: 0.13%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-07-17 10:50:47

End at: 2018-07-17 10:51:17

Local clock offset: -6.645 ms

Remote clock offset: 1.126 ms

Below is generated by plot.py at 2018-07-17 13:43:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 85.485 ms

Loss rate: 0.00%

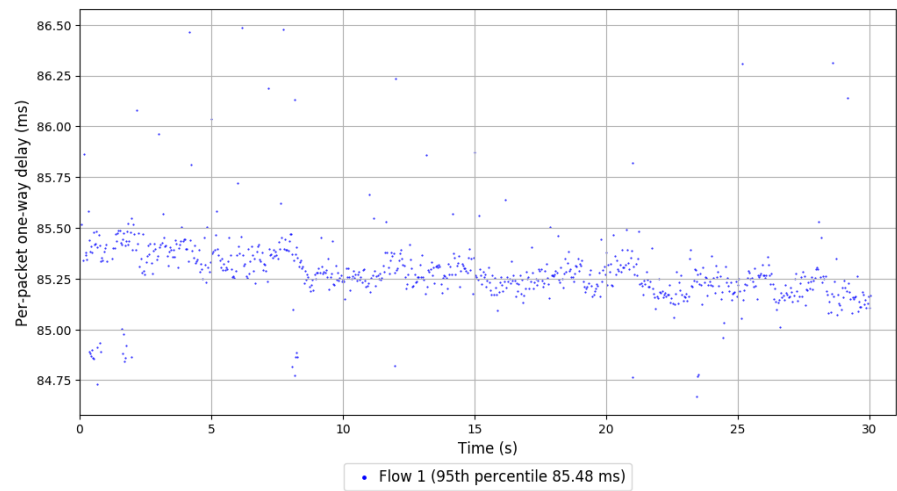
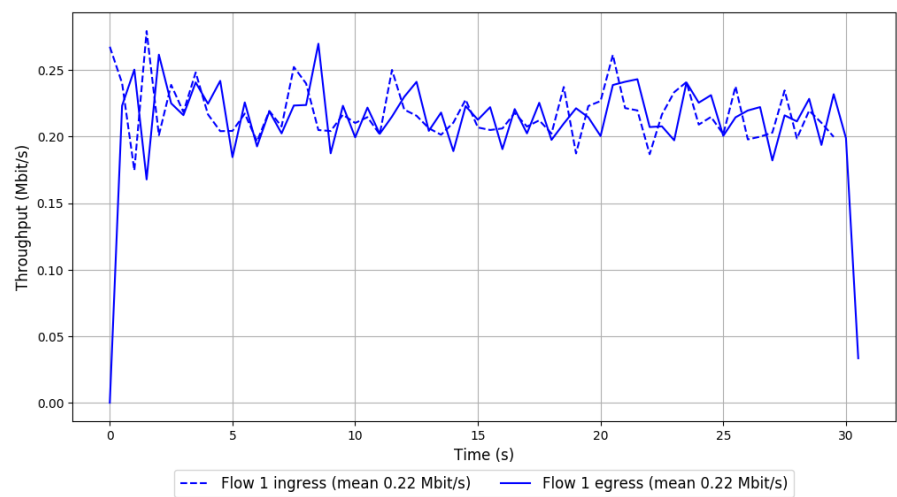
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 85.485 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-07-17 11:17:48

End at: 2018-07-17 11:18:18

Local clock offset: -7.807 ms

Remote clock offset: 0.879 ms

Below is generated by plot.py at 2018-07-17 13:43:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 100.374 ms

Loss rate: 0.13%

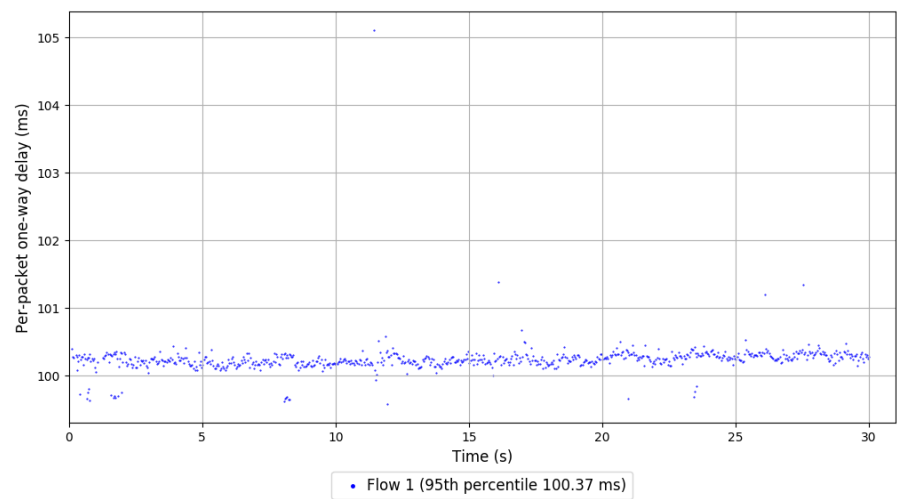
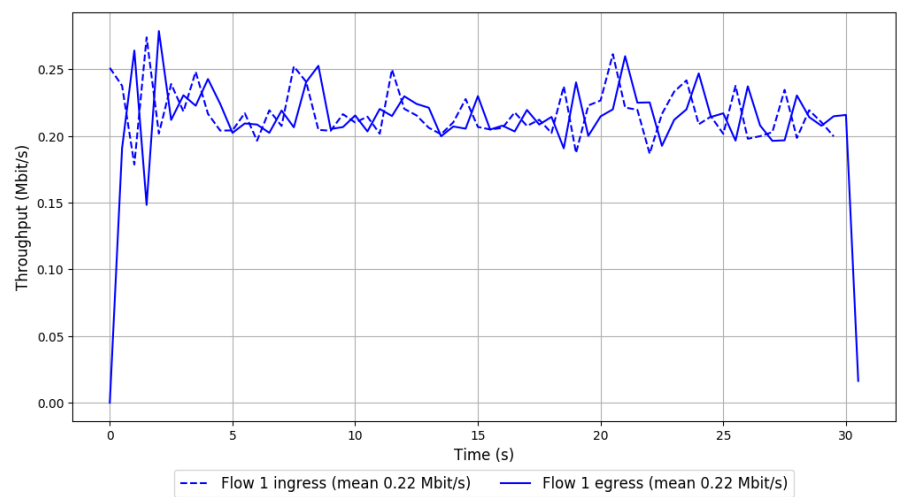
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 100.374 ms

Loss rate: 0.13%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2018-07-17 11:49:02

End at: 2018-07-17 11:49:32

Local clock offset: -1.053 ms

Remote clock offset: 0.58 ms

Below is generated by plot.py at 2018-07-17 13:43:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.549 ms

Loss rate: 0.00%

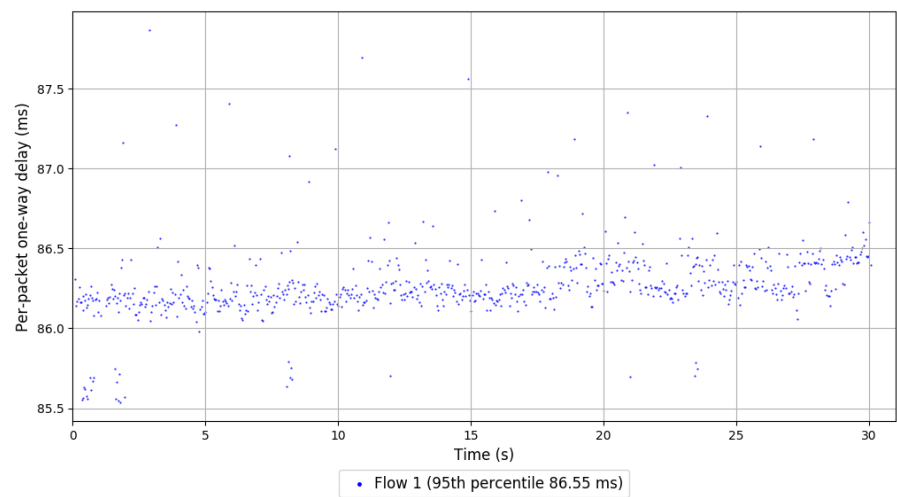
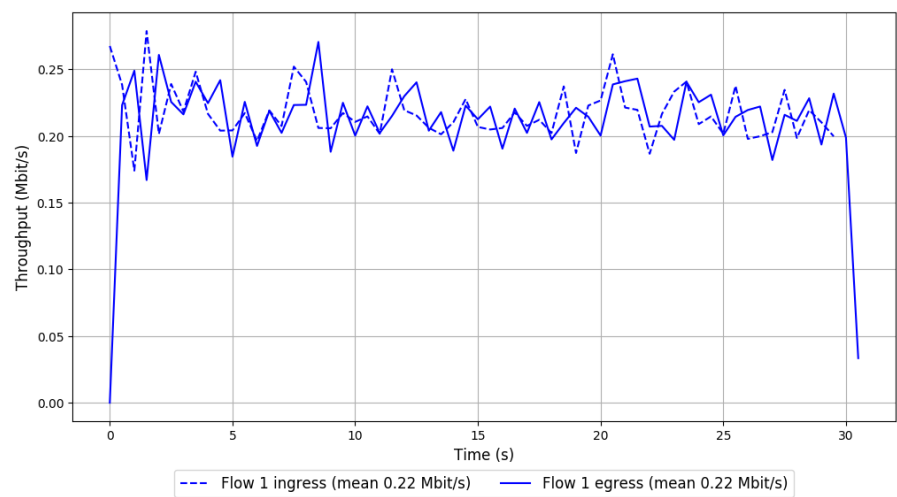
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.549 ms

Loss rate: 0.00%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-07-17 12:20:31

End at: 2018-07-17 12:21:01

Local clock offset: 3.792 ms

Remote clock offset: 0.423 ms

Below is generated by plot.py at 2018-07-17 13:43:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 85.967 ms

Loss rate: 0.00%

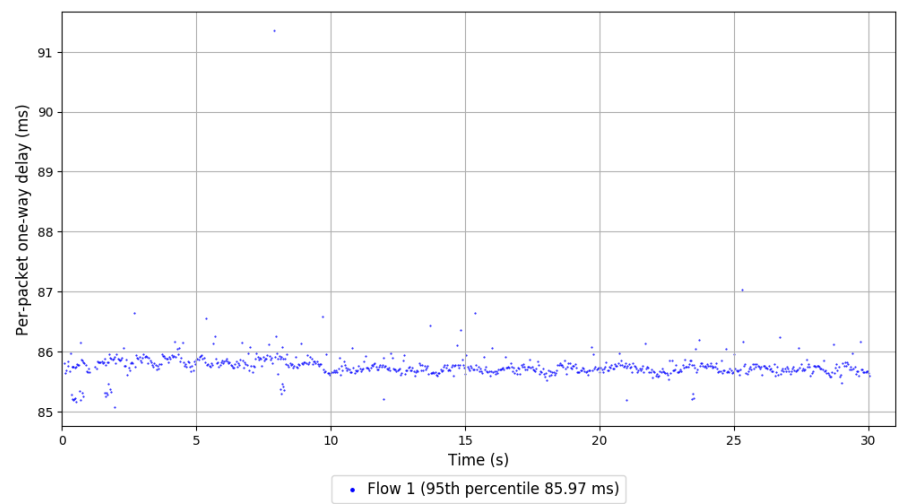
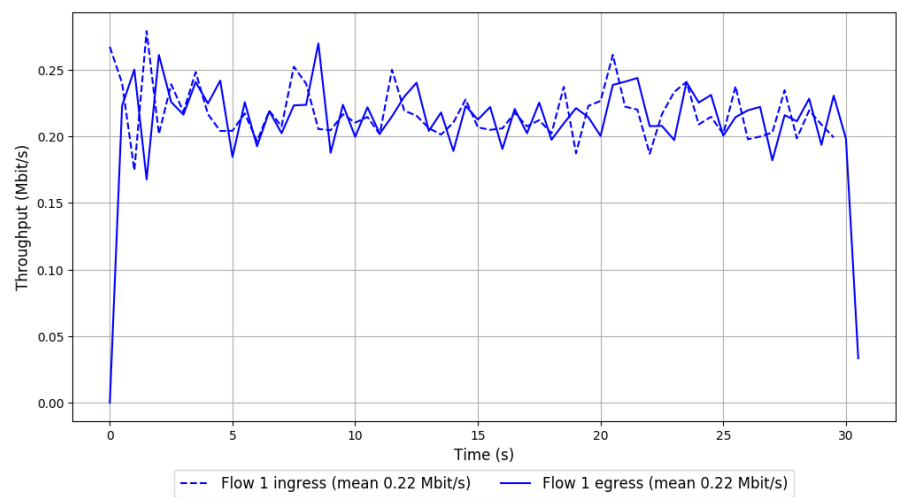
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 85.967 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-07-17 12:50:23

End at: 2018-07-17 12:50:53

Local clock offset: 6.228 ms

Remote clock offset: 0.281 ms

Below is generated by plot.py at 2018-07-17 13:43:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 85.840 ms

Loss rate: 0.00%

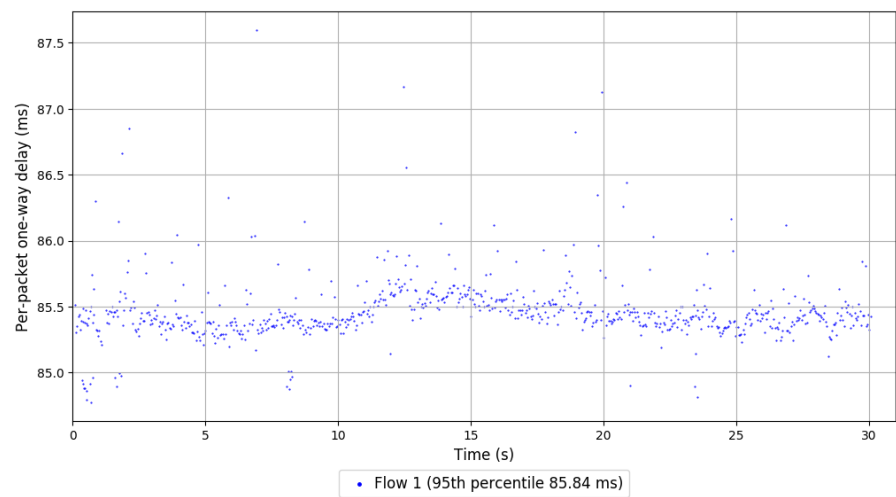
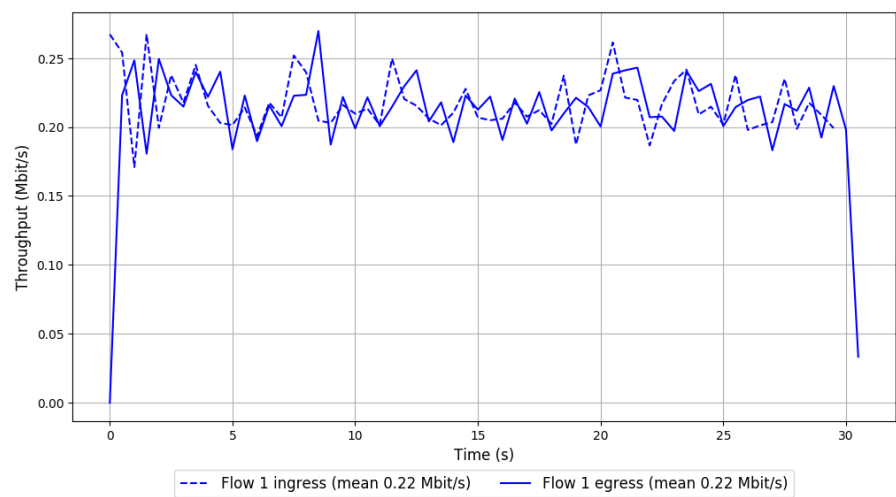
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 85.840 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SCReAM

Start at: 2018-07-17 13:19:34

End at: 2018-07-17 13:20:04

Local clock offset: 4.525 ms

Remote clock offset: 0.208 ms

Below is generated by plot.py at 2018-07-17 13:43:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 101.652 ms

Loss rate: 0.13%

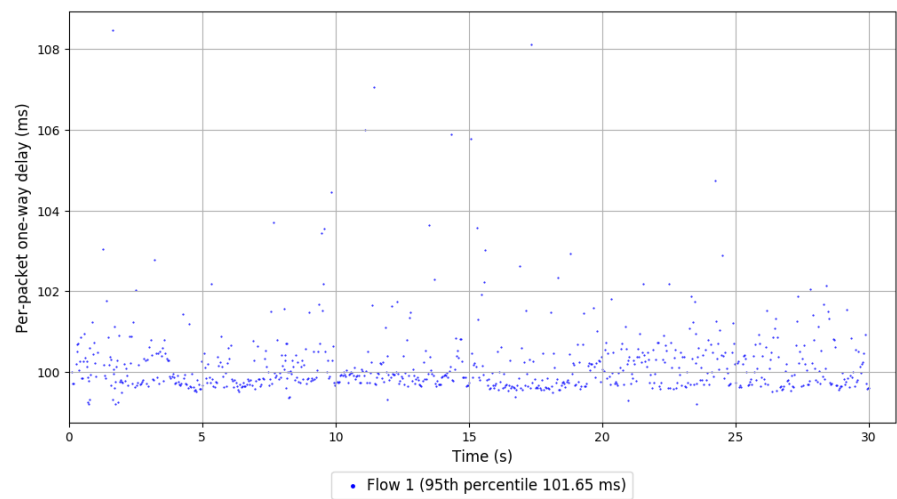
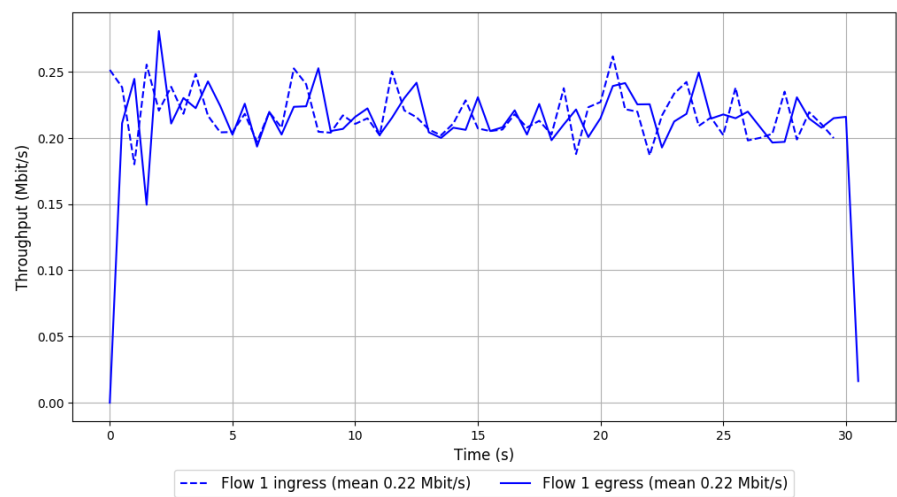
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 101.652 ms

Loss rate: 0.13%

Run 10: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2018-07-17 09:02:56

End at: 2018-07-17 09:03:26

Local clock offset: 13.756 ms

Remote clock offset: 0.619 ms

Below is generated by plot.py at 2018-07-17 13:43:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.54 Mbit/s

95th percentile per-packet one-way delay: 88.236 ms

Loss rate: 0.13%

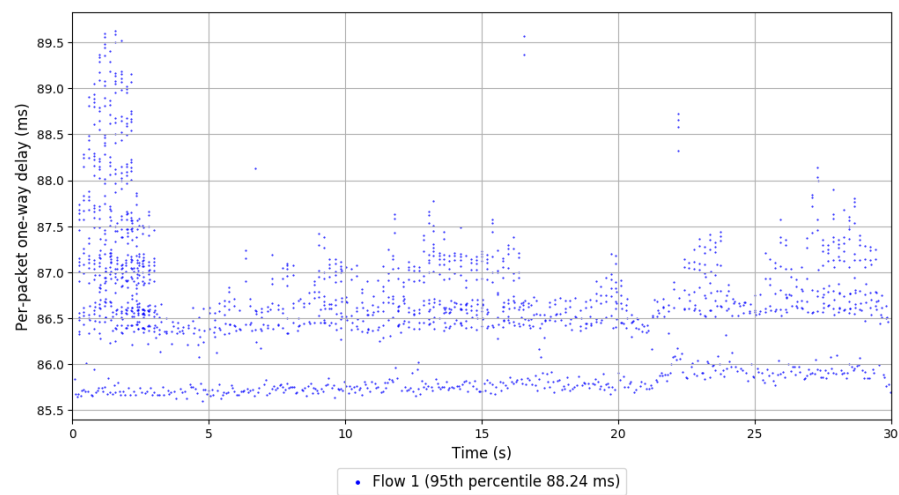
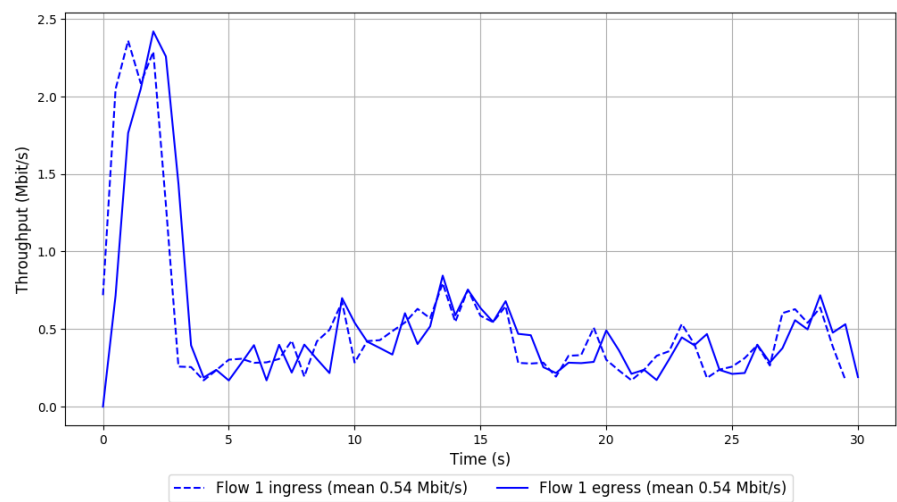
-- Flow 1:

Average throughput: 0.54 Mbit/s

95th percentile per-packet one-way delay: 88.236 ms

Loss rate: 0.13%

Run 1: Report of Sprout — Data Link

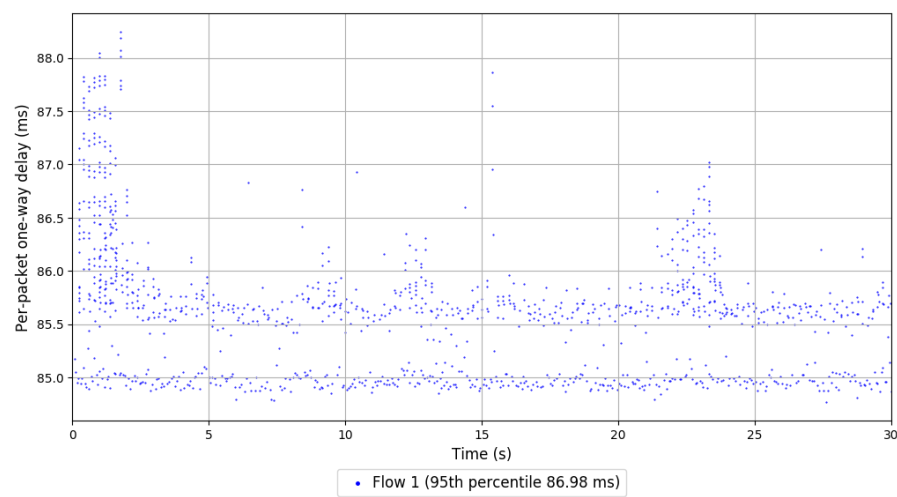
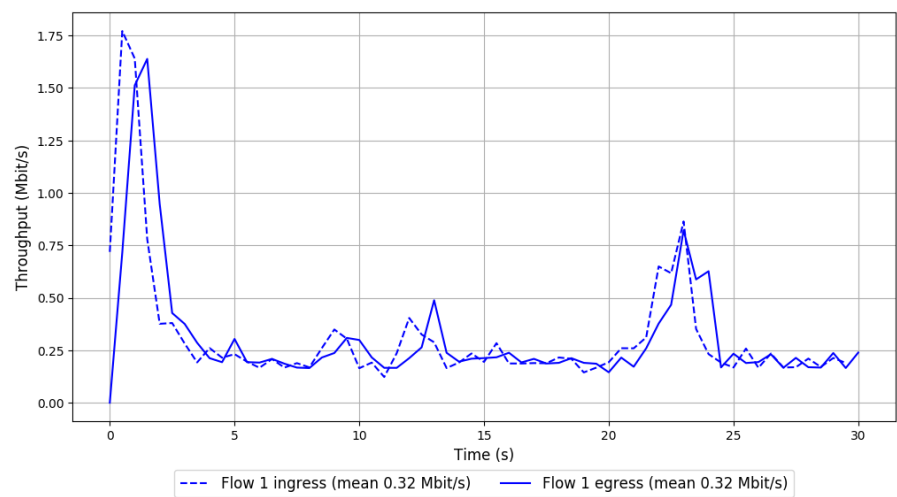


Run 2: Statistics of Sprout

Start at: 2018-07-17 09:29:48
End at: 2018-07-17 09:30:18
Local clock offset: 6.307 ms
Remote clock offset: 0.745 ms

Below is generated by plot.py at 2018-07-17 13:43:39
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.32 Mbit/s
95th percentile per-packet one-way delay: 86.983 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 0.32 Mbit/s
95th percentile per-packet one-way delay: 86.983 ms
Loss rate: 0.01%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-07-17 09:57:07

End at: 2018-07-17 09:57:37

Local clock offset: -4.481 ms

Remote clock offset: 1.208 ms

Below is generated by plot.py at 2018-07-17 13:43:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 102.281 ms

Loss rate: 0.00%

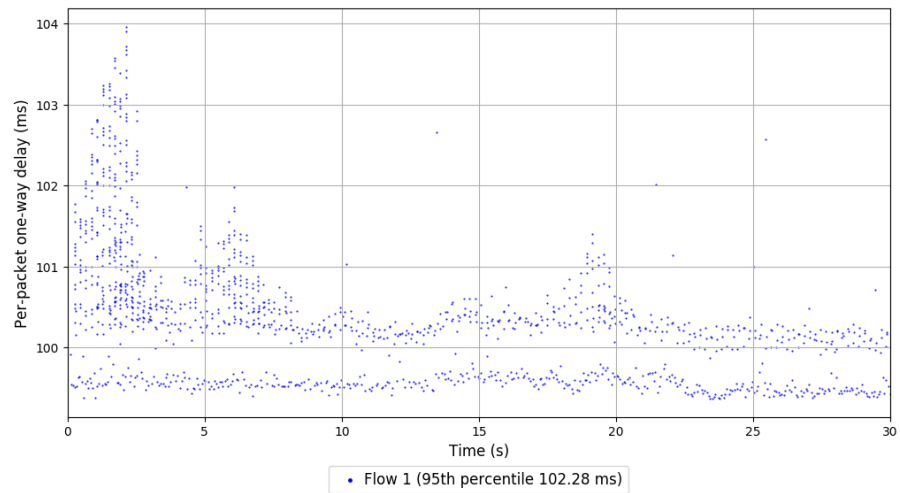
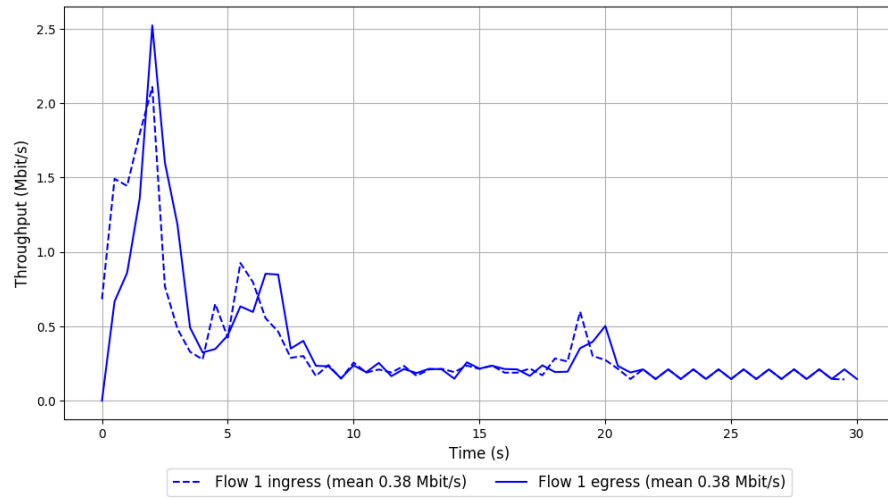
-- Flow 1:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 102.281 ms

Loss rate: 0.00%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-07-17 10:23:26

End at: 2018-07-17 10:23:56

Local clock offset: -1.733 ms

Remote clock offset: 1.152 ms

Below is generated by plot.py at 2018-07-17 13:43:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.27 Mbit/s

95th percentile per-packet one-way delay: 101.267 ms

Loss rate: 0.00%

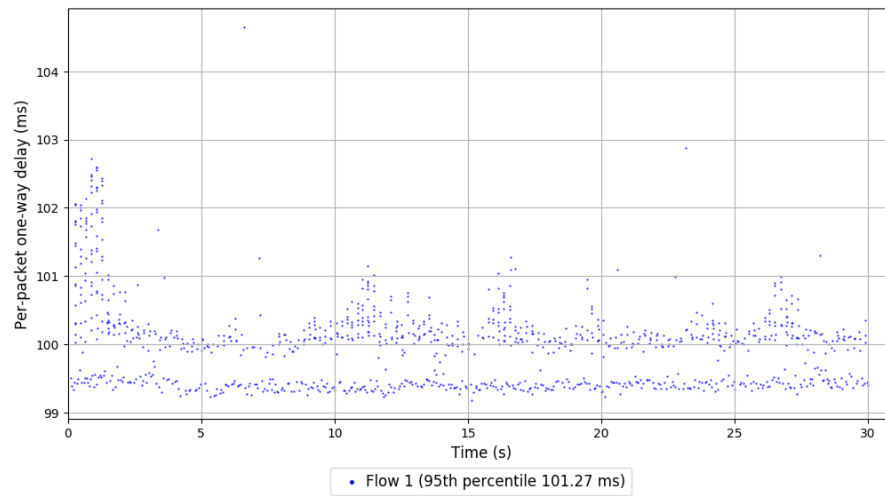
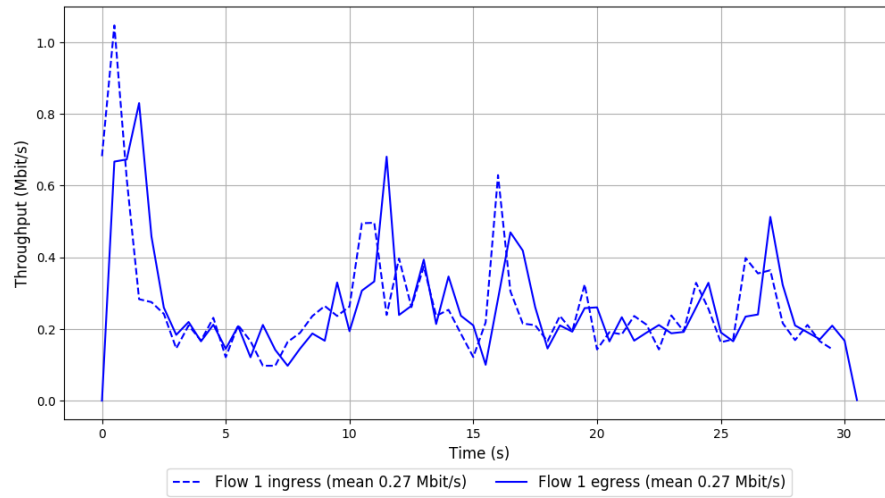
-- Flow 1:

Average throughput: 0.27 Mbit/s

95th percentile per-packet one-way delay: 101.267 ms

Loss rate: 0.00%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-07-17 10:49:32

End at: 2018-07-17 10:50:02

Local clock offset: -6.057 ms

Remote clock offset: 1.085 ms

Below is generated by plot.py at 2018-07-17 13:43:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 87.870 ms

Loss rate: 0.00%

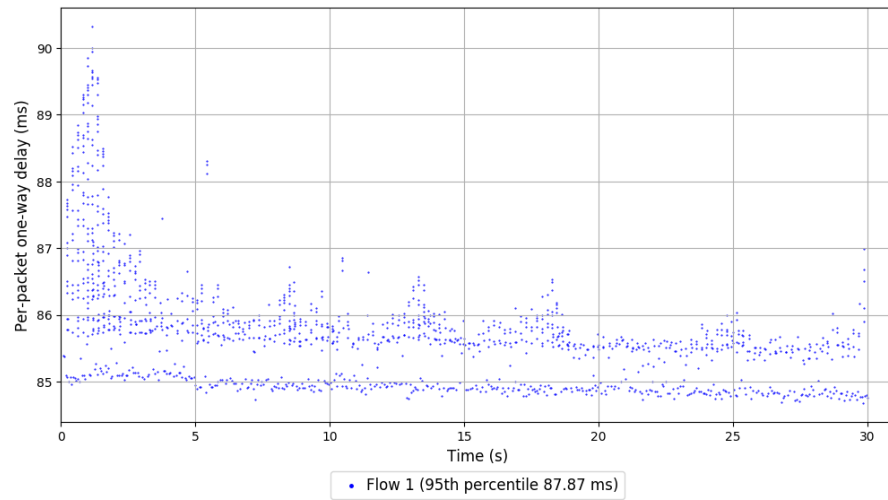
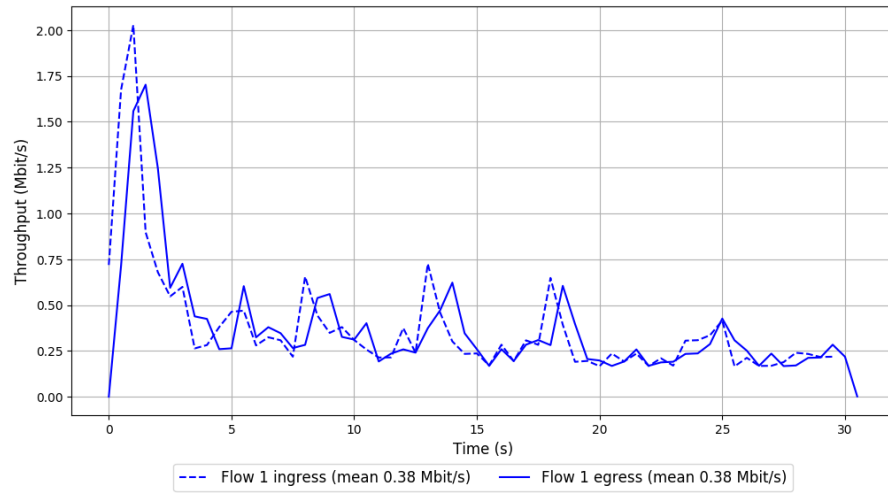
-- Flow 1:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 87.870 ms

Loss rate: 0.00%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-07-17 11:16:32

End at: 2018-07-17 11:17:02

Local clock offset: -8.25 ms

Remote clock offset: 0.851 ms

Below is generated by plot.py at 2018-07-17 13:43:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.45 Mbit/s

95th percentile per-packet one-way delay: 87.935 ms

Loss rate: 0.00%

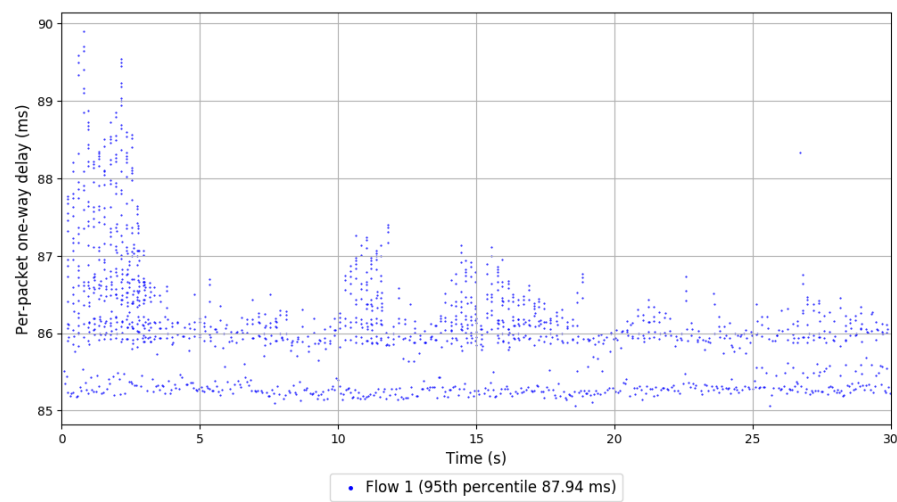
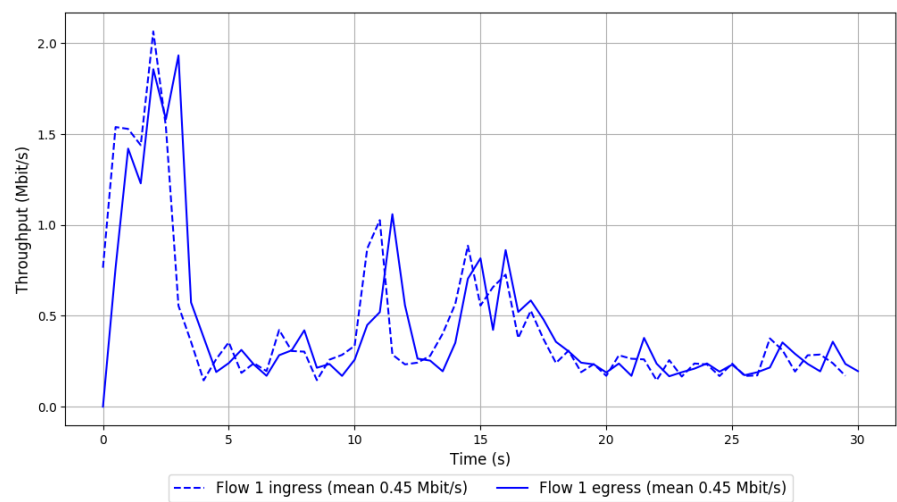
-- Flow 1:

Average throughput: 0.45 Mbit/s

95th percentile per-packet one-way delay: 87.935 ms

Loss rate: 0.00%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-07-17 11:47:46

End at: 2018-07-17 11:48:16

Local clock offset: -1.477 ms

Remote clock offset: 0.679 ms

Below is generated by plot.py at 2018-07-17 13:43:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 87.856 ms

Loss rate: 0.00%

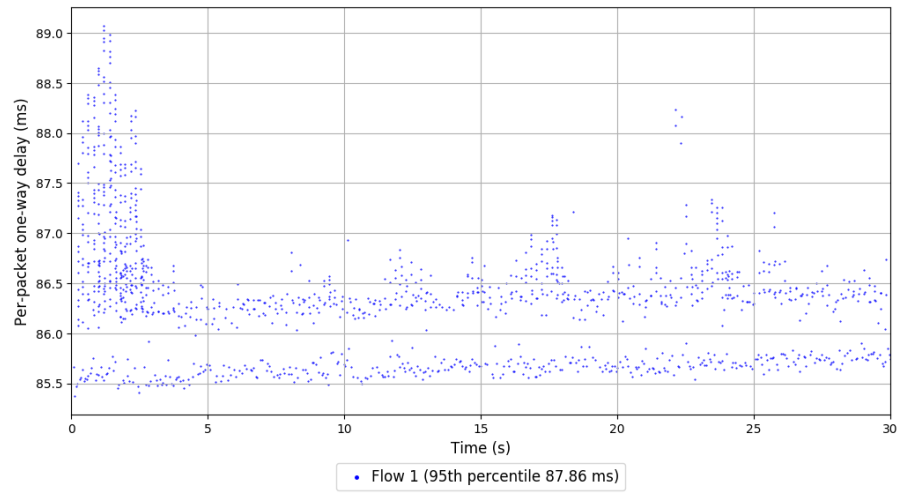
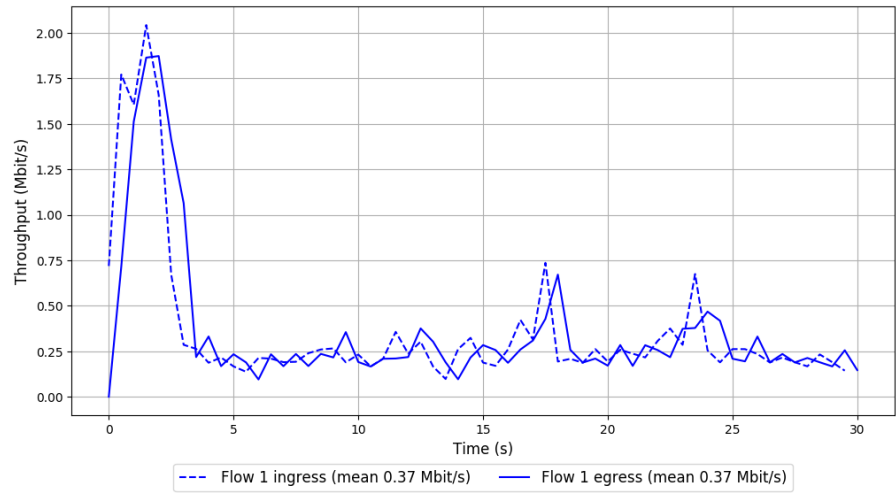
-- Flow 1:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 87.856 ms

Loss rate: 0.00%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-07-17 12:19:15

End at: 2018-07-17 12:19:45

Local clock offset: 3.852 ms

Remote clock offset: 0.463 ms

Below is generated by plot.py at 2018-07-17 13:43:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.23 Mbit/s

95th percentile per-packet one-way delay: 100.825 ms

Loss rate: 0.00%

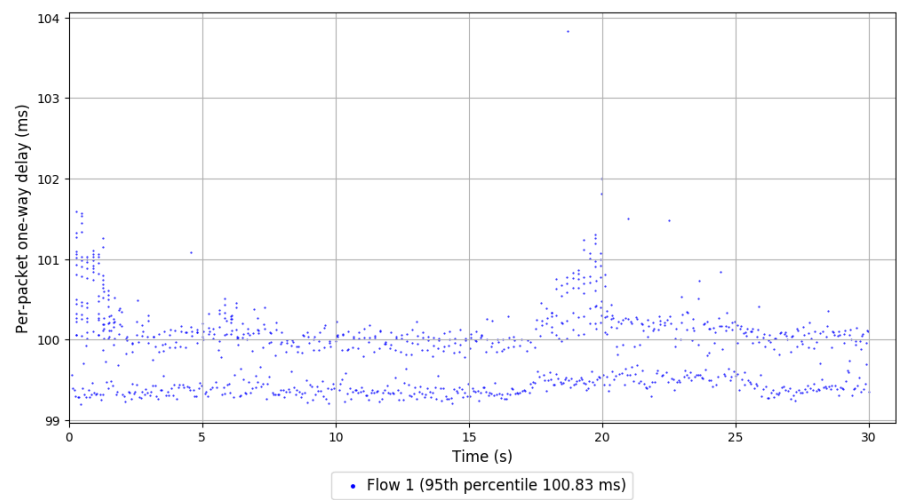
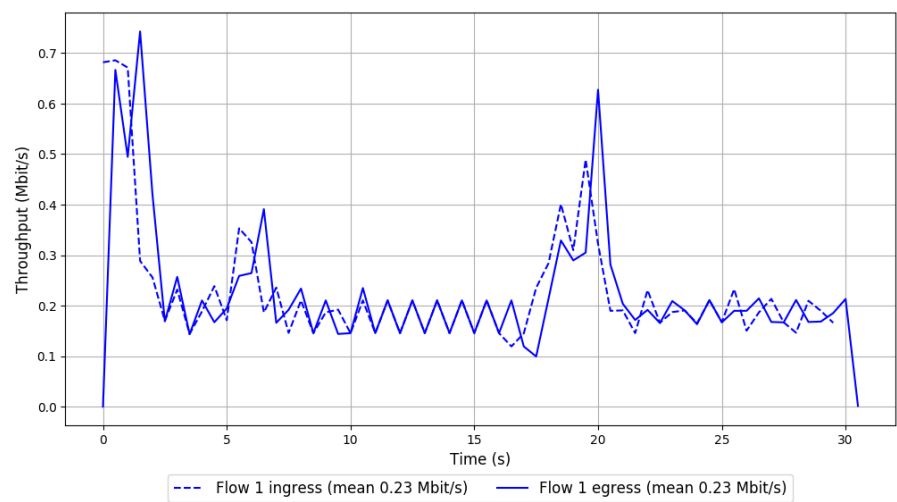
-- Flow 1:

Average throughput: 0.23 Mbit/s

95th percentile per-packet one-way delay: 100.825 ms

Loss rate: 0.00%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-07-17 12:49:07

End at: 2018-07-17 12:49:37

Local clock offset: 5.925 ms

Remote clock offset: 0.387 ms

Below is generated by plot.py at 2018-07-17 13:43:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.26 Mbit/s

95th percentile per-packet one-way delay: 101.773 ms

Loss rate: 0.00%

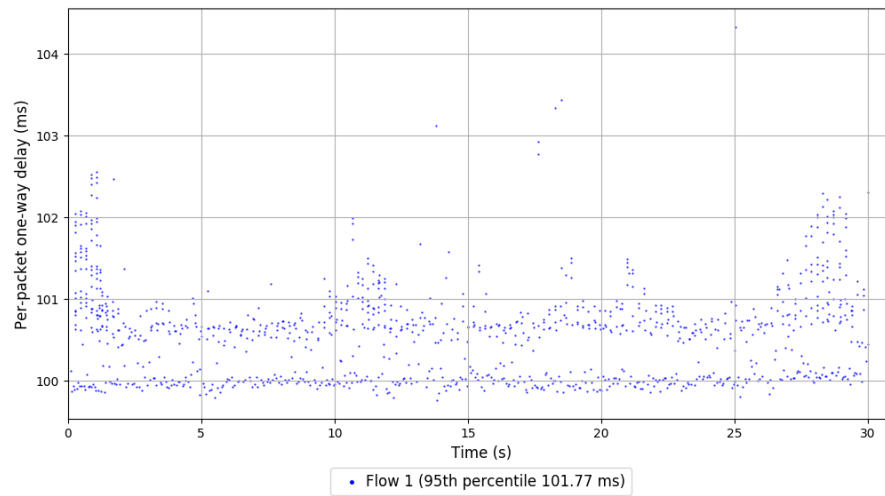
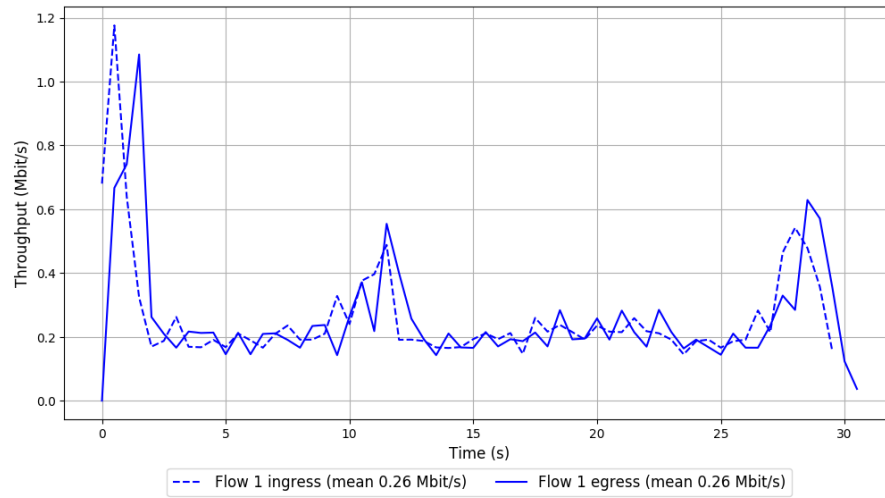
-- Flow 1:

Average throughput: 0.26 Mbit/s

95th percentile per-packet one-way delay: 101.773 ms

Loss rate: 0.00%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-07-17 13:18:18

End at: 2018-07-17 13:18:48

Local clock offset: 4.939 ms

Remote clock offset: 0.088 ms

Below is generated by plot.py at 2018-07-17 13:43:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 90.533 ms

Loss rate: 0.00%

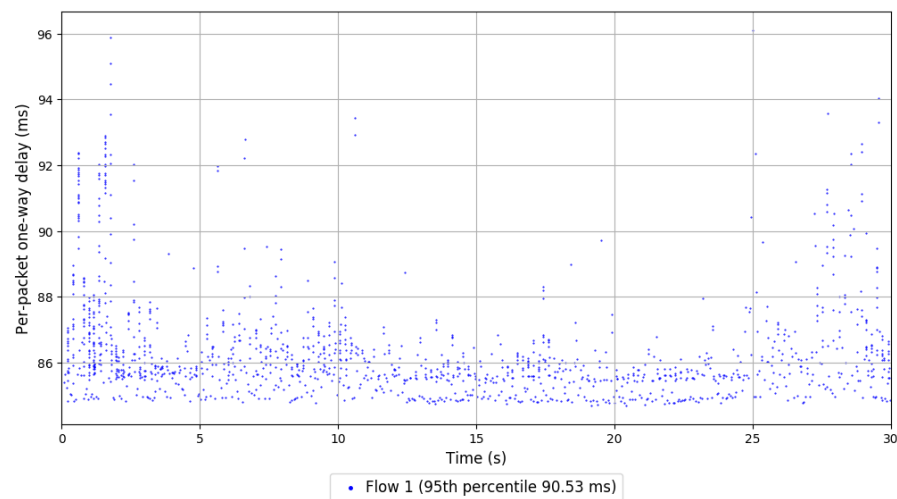
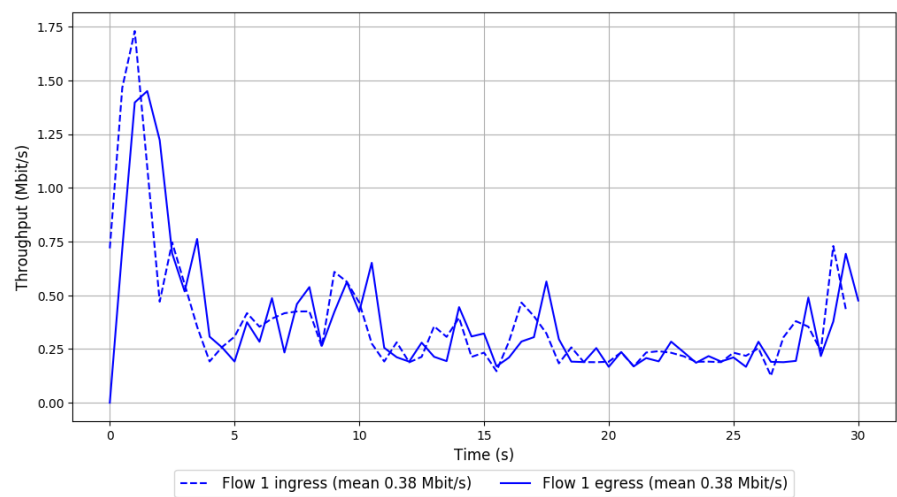
-- Flow 1:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 90.533 ms

Loss rate: 0.00%

Run 10: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

Start at: 2018-07-17 09:13:18

End at: 2018-07-17 09:13:48

Local clock offset: 13.345 ms

Remote clock offset: 0.654 ms

Below is generated by plot.py at 2018-07-17 13:43:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.44 Mbit/s

95th percentile per-packet one-way delay: 99.522 ms

Loss rate: 0.64%

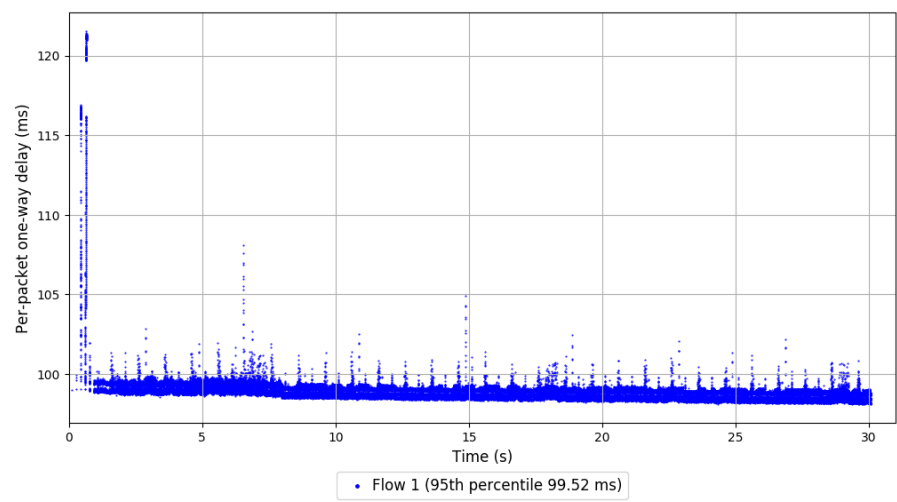
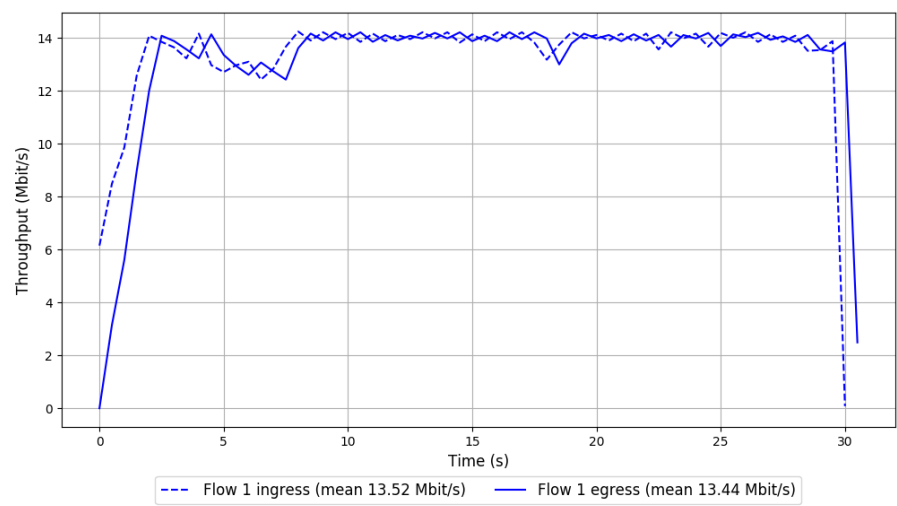
-- Flow 1:

Average throughput: 13.44 Mbit/s

95th percentile per-packet one-way delay: 99.522 ms

Loss rate: 0.64%

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



Run 2: Statistics of TaoVA-100x

Start at: 2018-07-17 09:40:19

End at: 2018-07-17 09:40:49

Local clock offset: 7.378 ms

Remote clock offset: 0.922 ms

Below is generated by plot.py at 2018-07-17 13:43:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.21 Mbit/s

95th percentile per-packet one-way delay: 100.295 ms

Loss rate: 0.55%

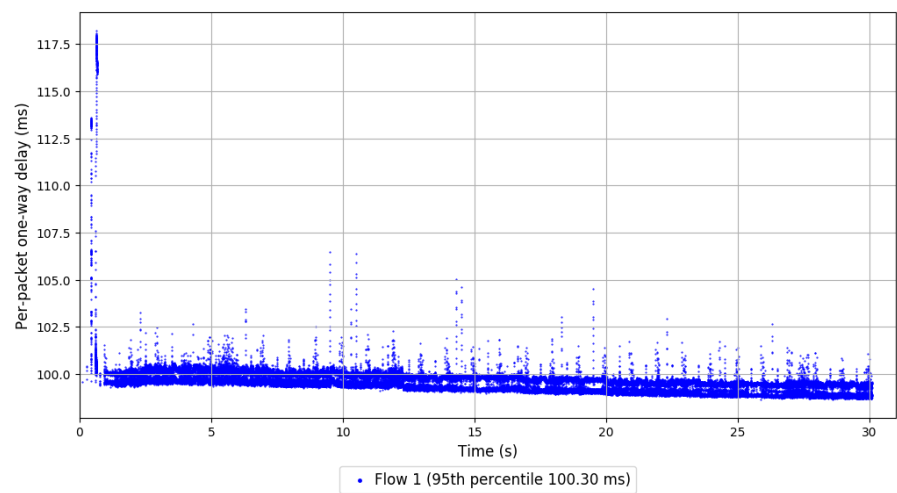
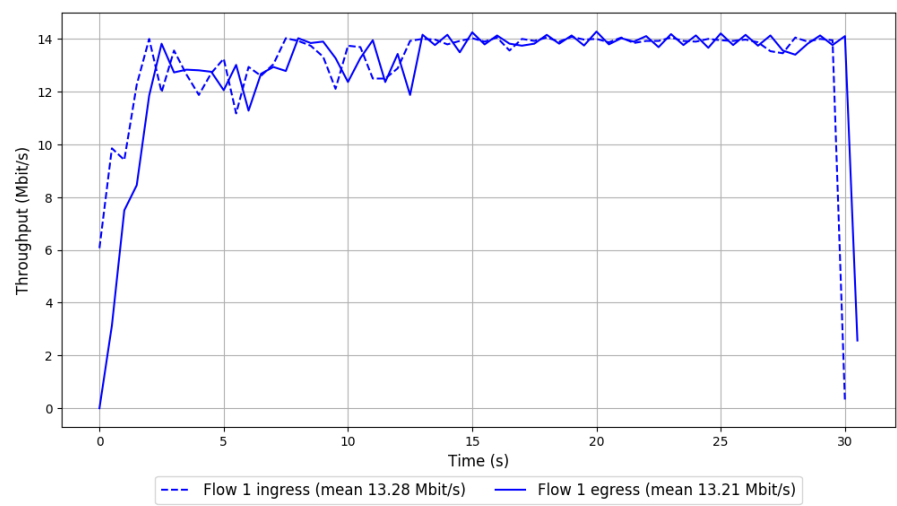
-- Flow 1:

Average throughput: 13.21 Mbit/s

95th percentile per-packet one-way delay: 100.295 ms

Loss rate: 0.55%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-07-17 10:08:21

End at: 2018-07-17 10:08:51

Local clock offset: -5.746 ms

Remote clock offset: 1.107 ms

Below is generated by plot.py at 2018-07-17 13:43:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.45 Mbit/s

95th percentile per-packet one-way delay: 100.250 ms

Loss rate: 0.50%

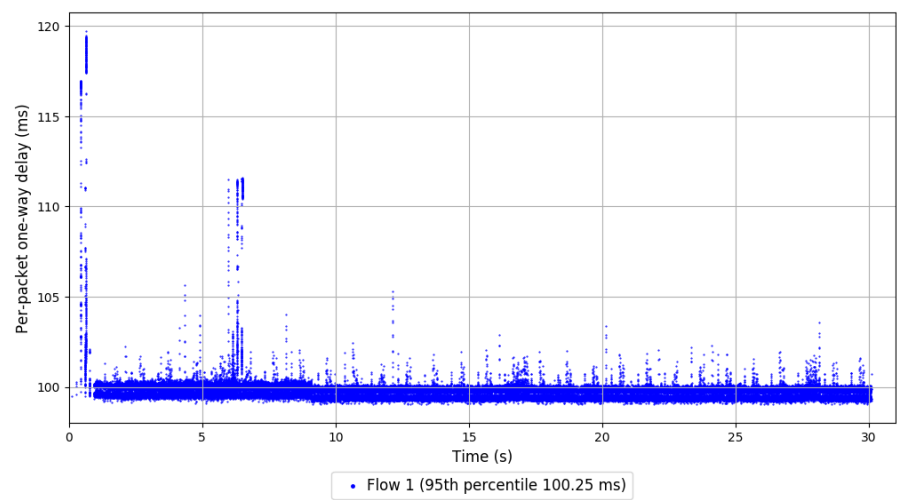
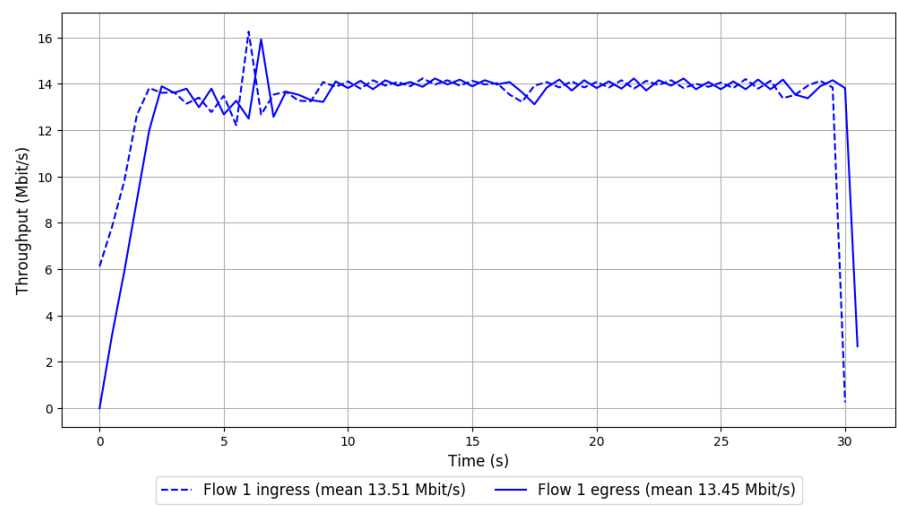
-- Flow 1:

Average throughput: 13.45 Mbit/s

95th percentile per-packet one-way delay: 100.250 ms

Loss rate: 0.50%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-07-17 10:34:05

End at: 2018-07-17 10:34:35

Local clock offset: -0.467 ms

Remote clock offset: 1.091 ms

Below is generated by plot.py at 2018-07-17 13:43:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.28 Mbit/s

95th percentile per-packet one-way delay: 100.806 ms

Loss rate: 0.65%

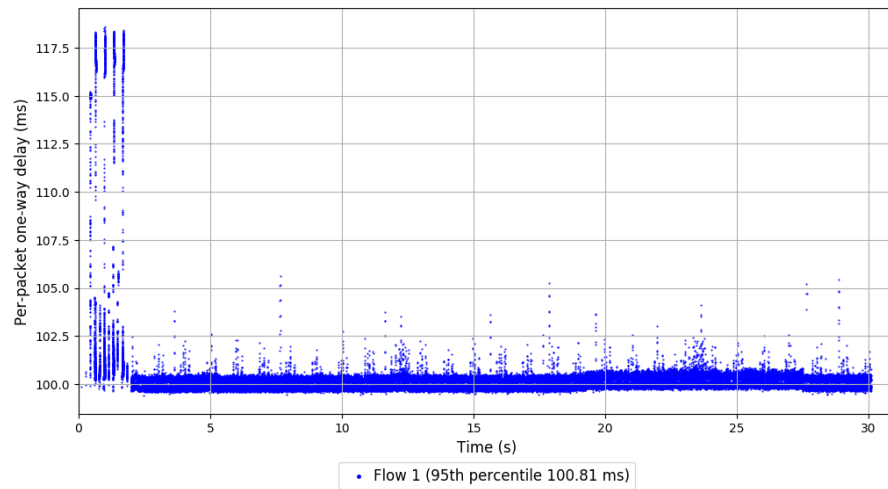
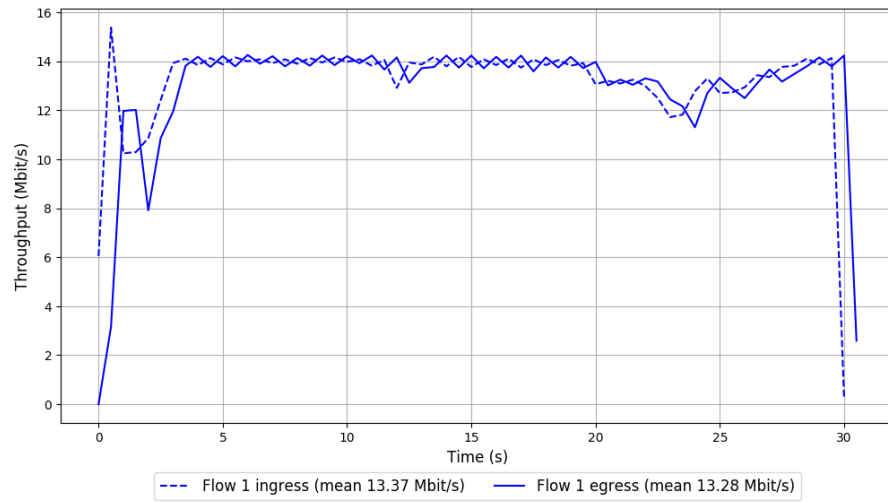
-- Flow 1:

Average throughput: 13.28 Mbit/s

95th percentile per-packet one-way delay: 100.806 ms

Loss rate: 0.65%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-07-17 11:00:08

End at: 2018-07-17 11:00:38

Local clock offset: -8.95 ms

Remote clock offset: 0.962 ms

Below is generated by plot.py at 2018-07-17 13:44:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.35 Mbit/s

95th percentile per-packet one-way delay: 85.816 ms

Loss rate: 0.97%

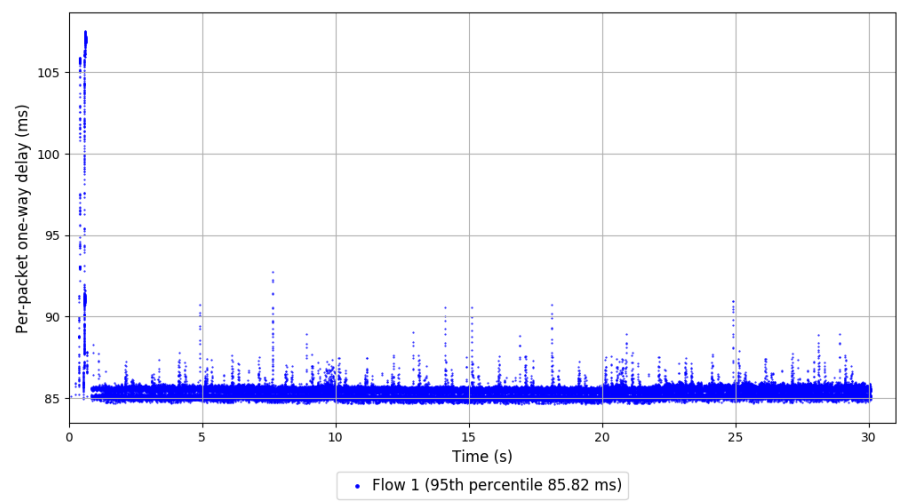
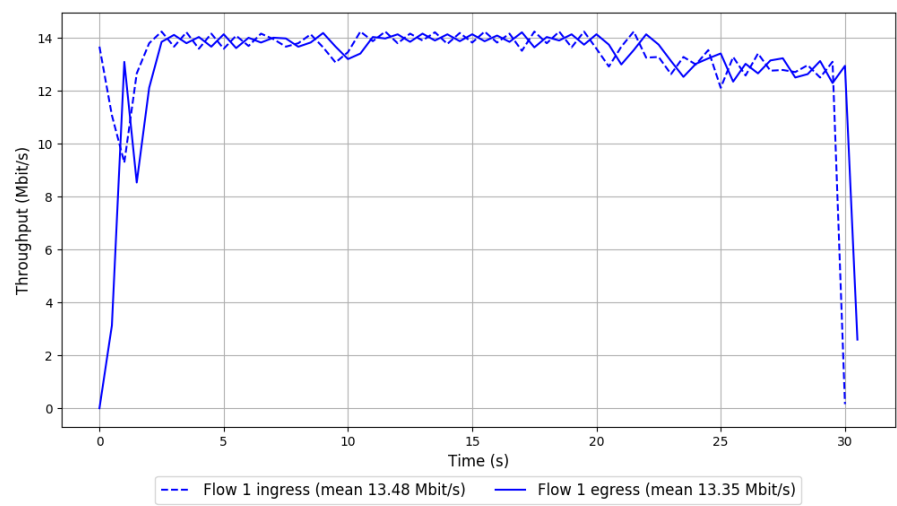
-- Flow 1:

Average throughput: 13.35 Mbit/s

95th percentile per-packet one-way delay: 85.816 ms

Loss rate: 0.97%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-07-17 11:27:47

End at: 2018-07-17 11:28:17

Local clock offset: -6.331 ms

Remote clock offset: 0.833 ms

Below is generated by plot.py at 2018-07-17 13:44:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.33 Mbit/s

95th percentile per-packet one-way delay: 89.393 ms

Loss rate: 1.85%

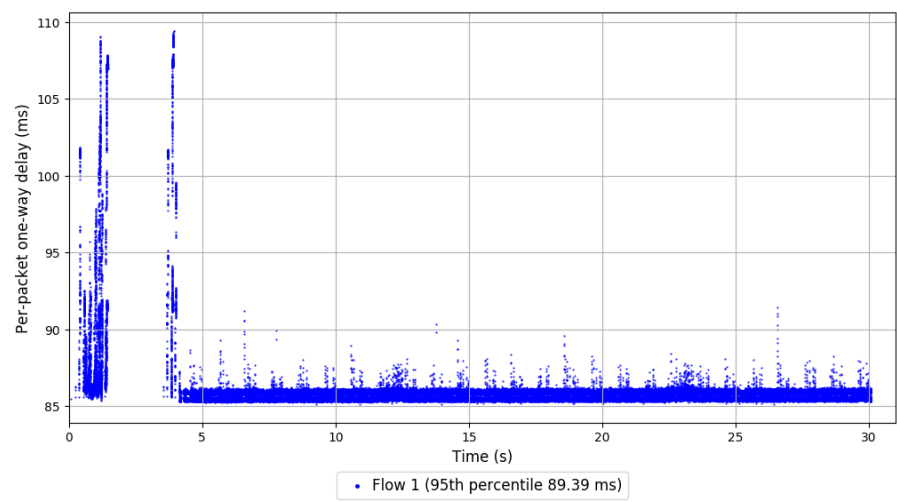
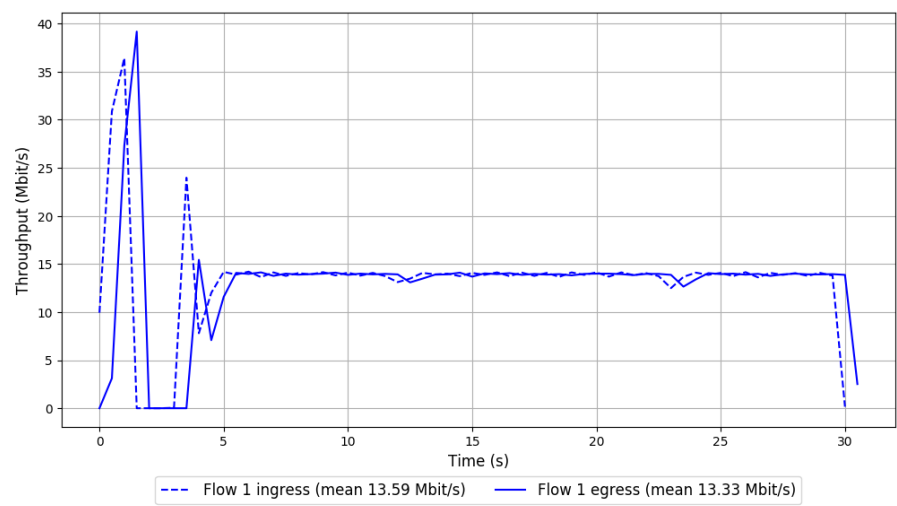
-- Flow 1:

Average throughput: 13.33 Mbit/s

95th percentile per-packet one-way delay: 89.393 ms

Loss rate: 1.85%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-07-17 11:59:53

End at: 2018-07-17 12:00:23

Local clock offset: 2.037 ms

Remote clock offset: 0.474 ms

Below is generated by plot.py at 2018-07-17 13:44:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 14.15 Mbit/s

95th percentile per-packet one-way delay: 90.966 ms

Loss rate: 1.08%

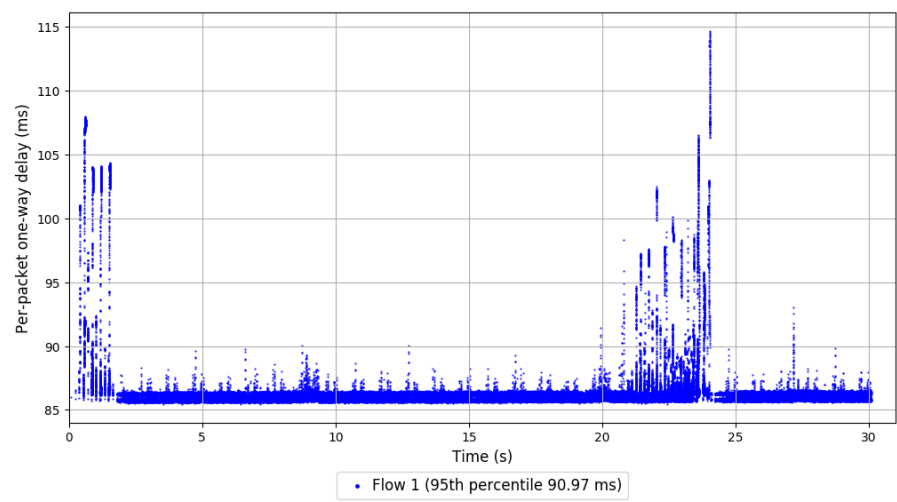
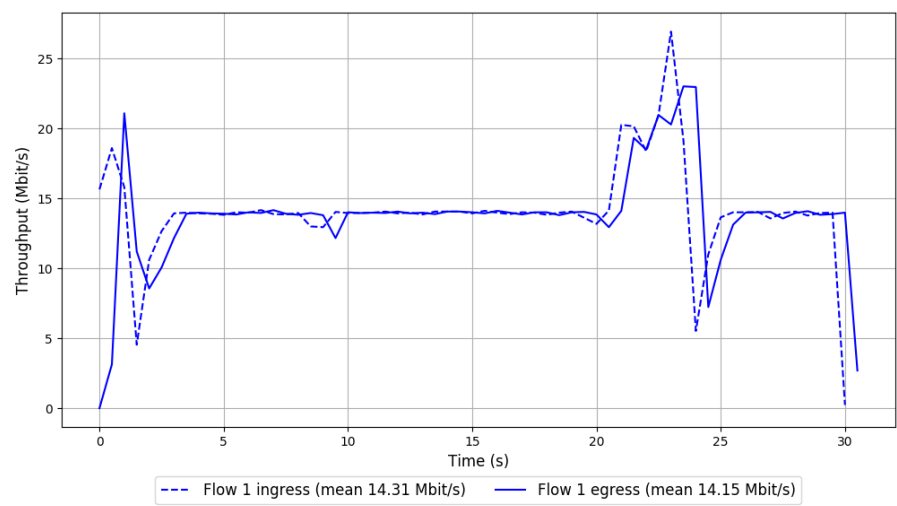
-- Flow 1:

Average throughput: 14.15 Mbit/s

95th percentile per-packet one-way delay: 90.966 ms

Loss rate: 1.08%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-07-17 12:31:22

End at: 2018-07-17 12:31:52

Local clock offset: 4.431 ms

Remote clock offset: 0.337 ms

Below is generated by plot.py at 2018-07-17 13:44:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.99 Mbit/s

95th percentile per-packet one-way delay: 86.833 ms

Loss rate: 1.00%

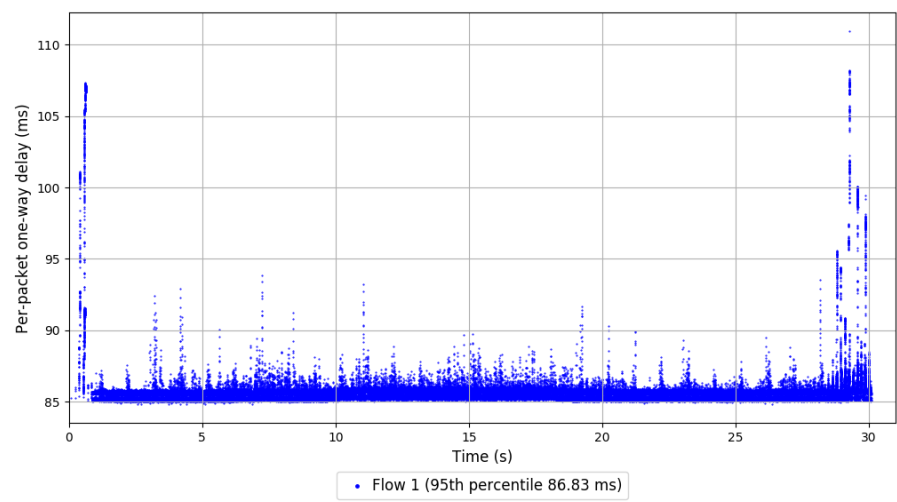
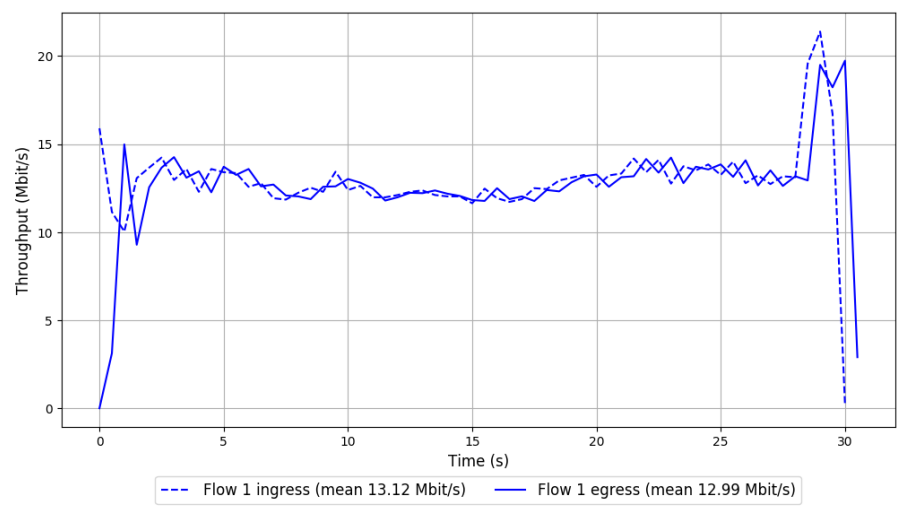
-- Flow 1:

Average throughput: 12.99 Mbit/s

95th percentile per-packet one-way delay: 86.833 ms

Loss rate: 1.00%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-07-17 13:01:21

End at: 2018-07-17 13:01:51

Local clock offset: 7.164 ms

Remote clock offset: 0.228 ms

Below is generated by plot.py at 2018-07-17 13:44:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.58 Mbit/s

95th percentile per-packet one-way delay: 90.813 ms

Loss rate: 1.33%

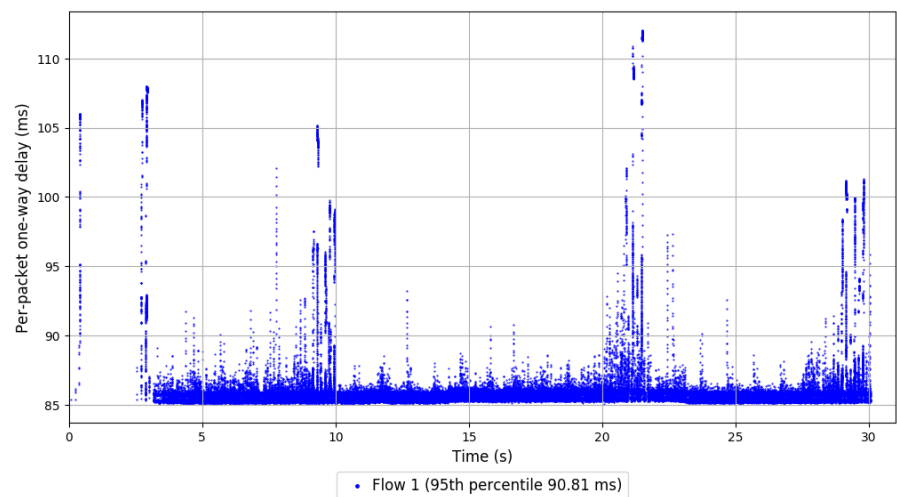
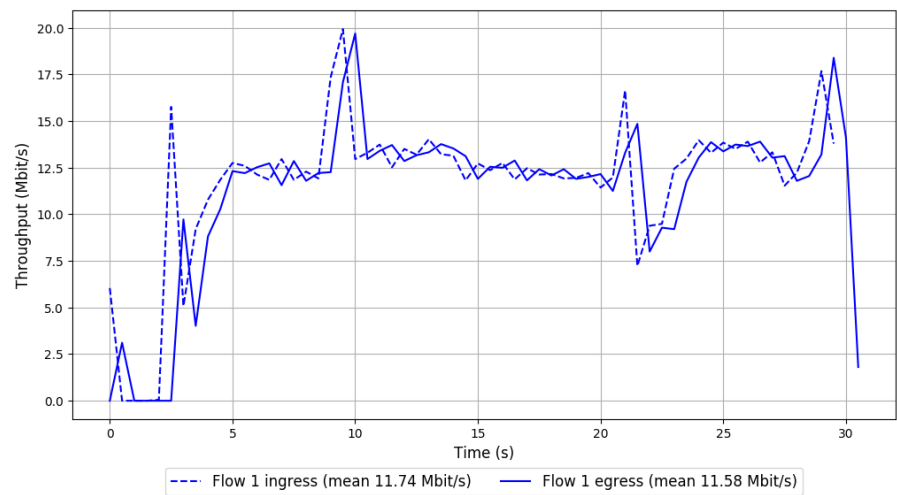
-- Flow 1:

Average throughput: 11.58 Mbit/s

95th percentile per-packet one-way delay: 90.813 ms

Loss rate: 1.33%

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



Run 10: Statistics of TaoVA-100x

Start at: 2018-07-17 13:28:47

End at: 2018-07-17 13:29:18

Local clock offset: 3.252 ms

Remote clock offset: 0.082 ms

Below is generated by plot.py at 2018-07-17 13:44:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.67 Mbit/s

95th percentile per-packet one-way delay: 102.091 ms

Loss rate: 3.75%

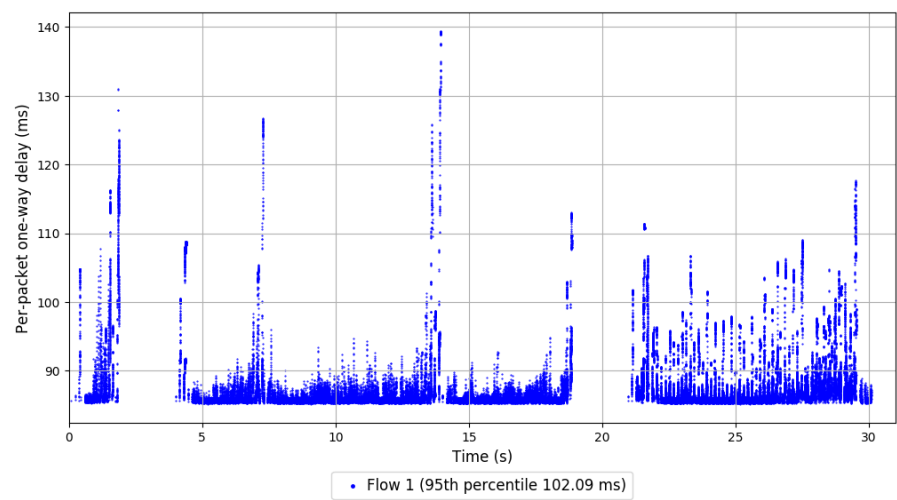
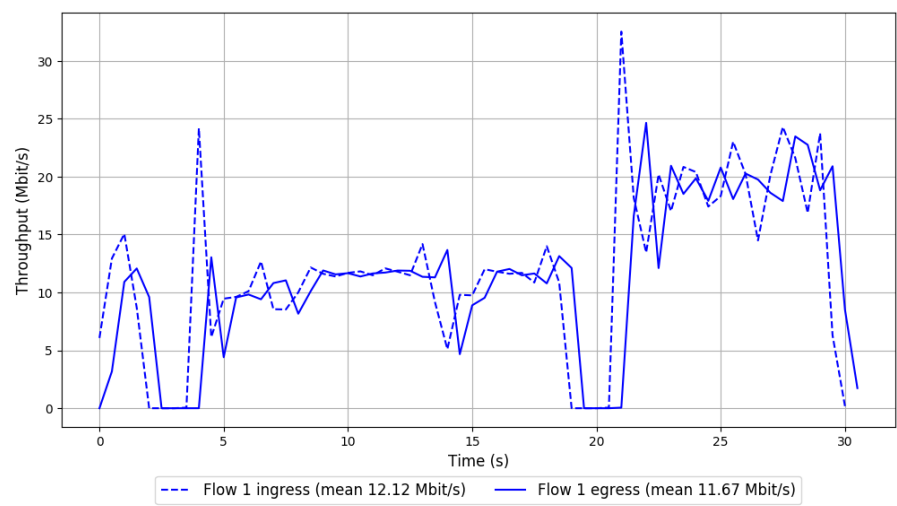
-- Flow 1:

Average throughput: 11.67 Mbit/s

95th percentile per-packet one-way delay: 102.091 ms

Loss rate: 3.75%

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



Run 1: Statistics of TCP Vegas

Start at: 2018-07-17 09:08:48

End at: 2018-07-17 09:09:18

Local clock offset: 15.808 ms

Remote clock offset: 0.635 ms

Below is generated by plot.py at 2018-07-17 13:44:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.02 Mbit/s

95th percentile per-packet one-way delay: 101.273 ms

Loss rate: 0.94%

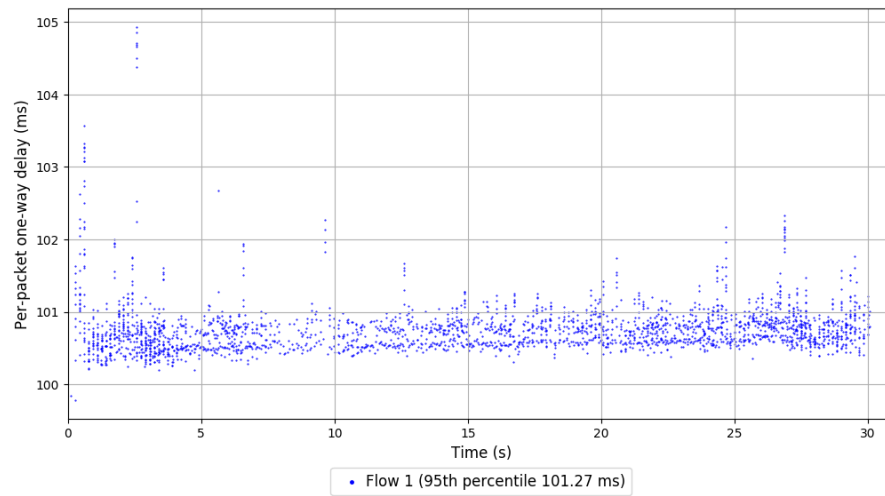
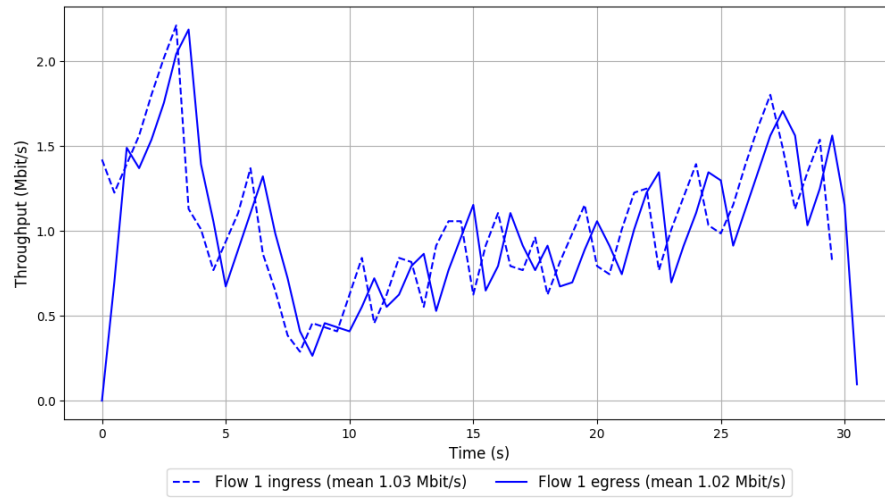
-- Flow 1:

Average throughput: 1.02 Mbit/s

95th percentile per-packet one-way delay: 101.273 ms

Loss rate: 0.94%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-07-17 09:35:44

End at: 2018-07-17 09:36:14

Local clock offset: 6.757 ms

Remote clock offset: 0.858 ms

Below is generated by plot.py at 2018-07-17 13:44:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 9.52 Mbit/s

95th percentile per-packet one-way delay: 87.013 ms

Loss rate: 0.22%

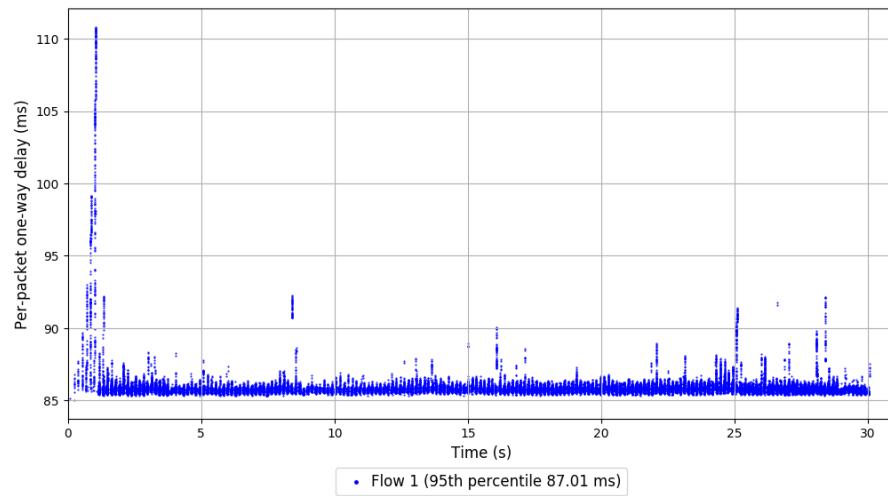
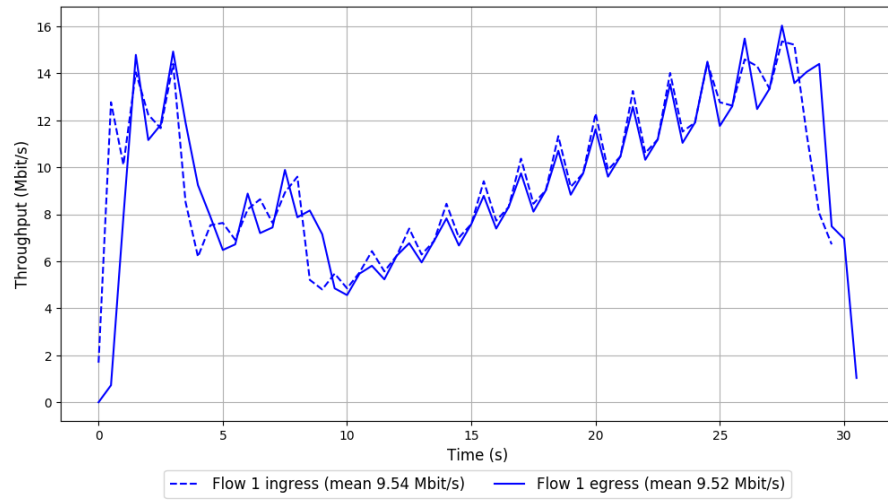
-- Flow 1:

Average throughput: 9.52 Mbit/s

95th percentile per-packet one-way delay: 87.013 ms

Loss rate: 0.22%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-07-17 10:03:22

End at: 2018-07-17 10:03:52

Local clock offset: -5.328 ms

Remote clock offset: 1.155 ms

Below is generated by plot.py at 2018-07-17 13:44:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 9.91 Mbit/s

95th percentile per-packet one-way delay: 87.782 ms

Loss rate: 0.21%

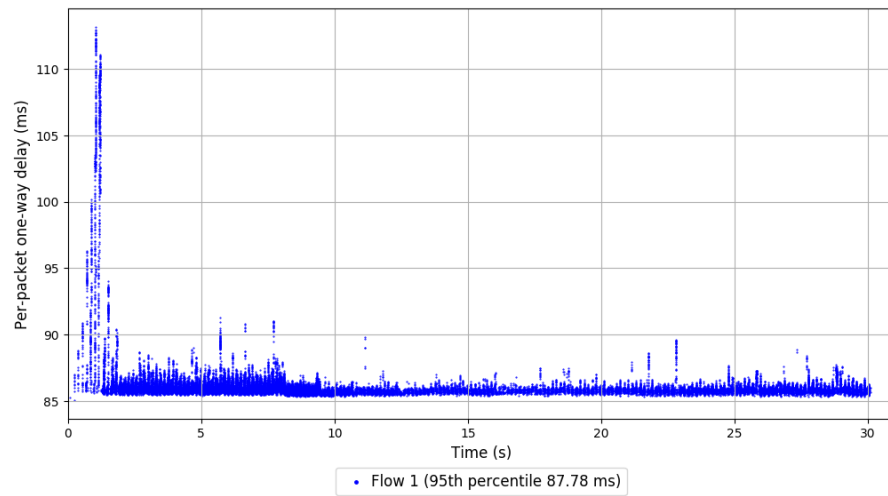
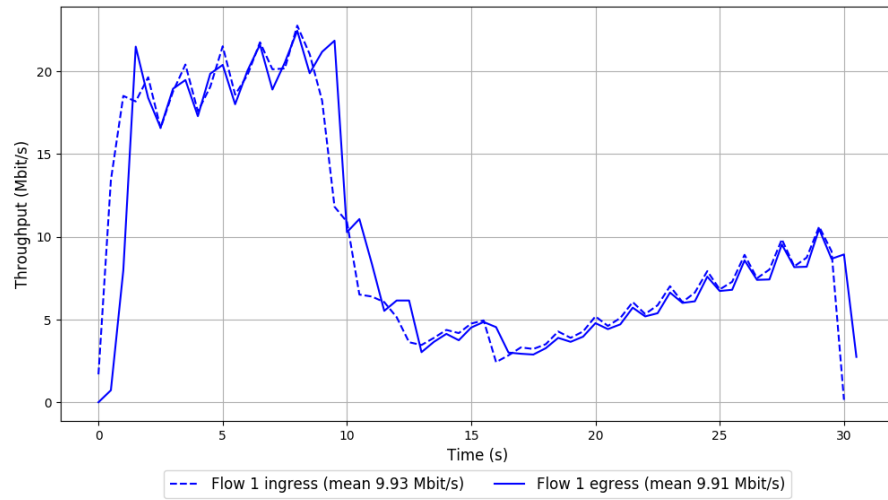
-- Flow 1:

Average throughput: 9.91 Mbit/s

95th percentile per-packet one-way delay: 87.782 ms

Loss rate: 0.21%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-07-17 10:29:21

End at: 2018-07-17 10:29:51

Local clock offset: -0.843 ms

Remote clock offset: 1.133 ms

Below is generated by plot.py at 2018-07-17 13:44:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 10.92 Mbit/s

95th percentile per-packet one-way delay: 102.107 ms

Loss rate: 0.22%

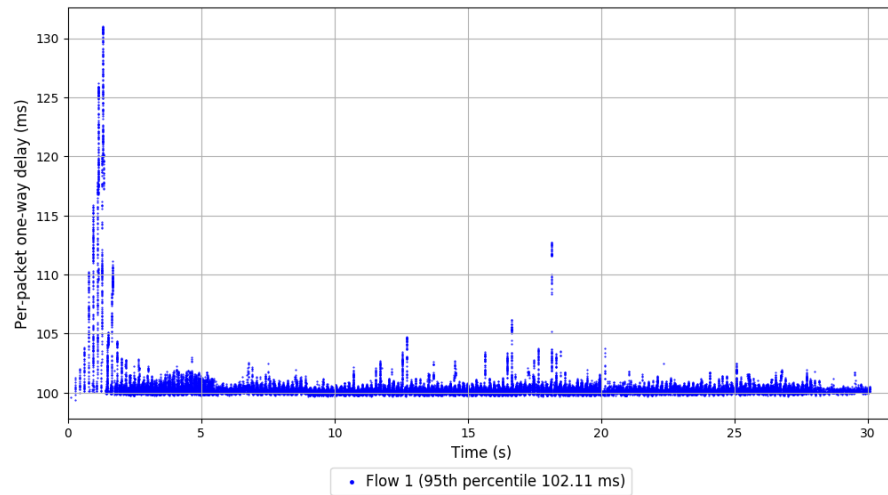
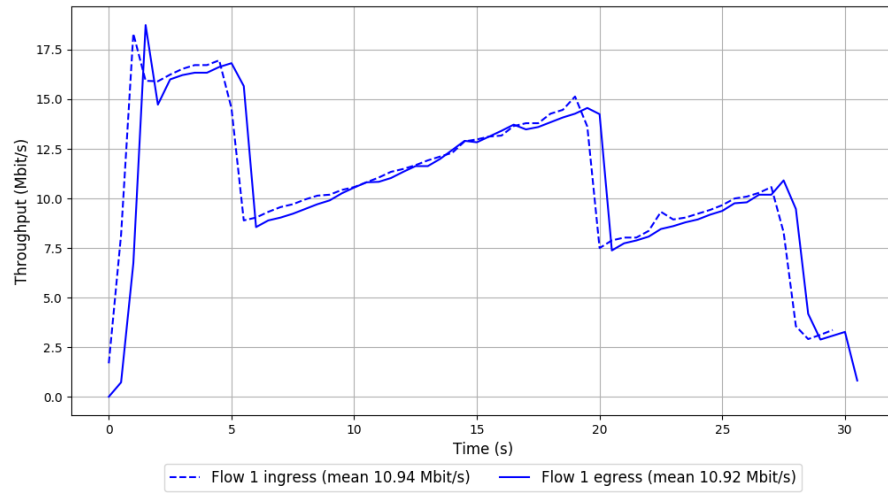
-- Flow 1:

Average throughput: 10.92 Mbit/s

95th percentile per-packet one-way delay: 102.107 ms

Loss rate: 0.22%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-07-17 10:55:37

End at: 2018-07-17 10:56:07

Local clock offset: -8.043 ms

Remote clock offset: 0.944 ms

Below is generated by plot.py at 2018-07-17 13:44:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 8.46 Mbit/s

95th percentile per-packet one-way delay: 87.704 ms

Loss rate: 1.04%

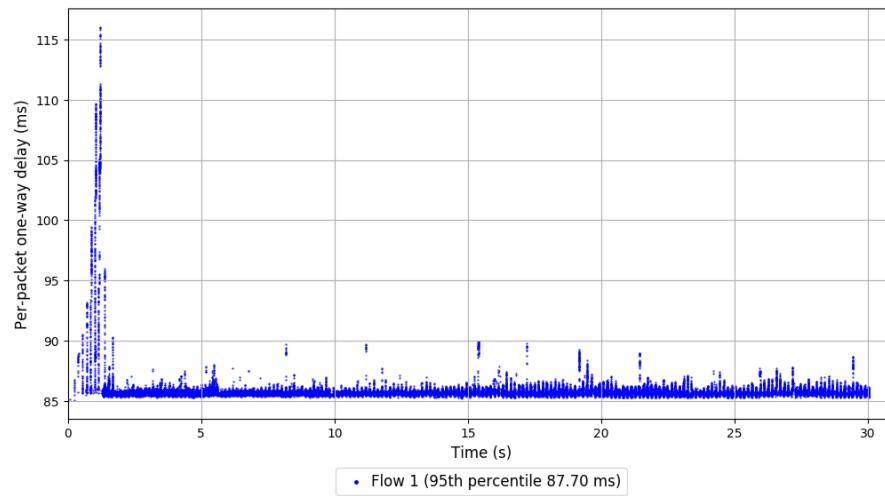
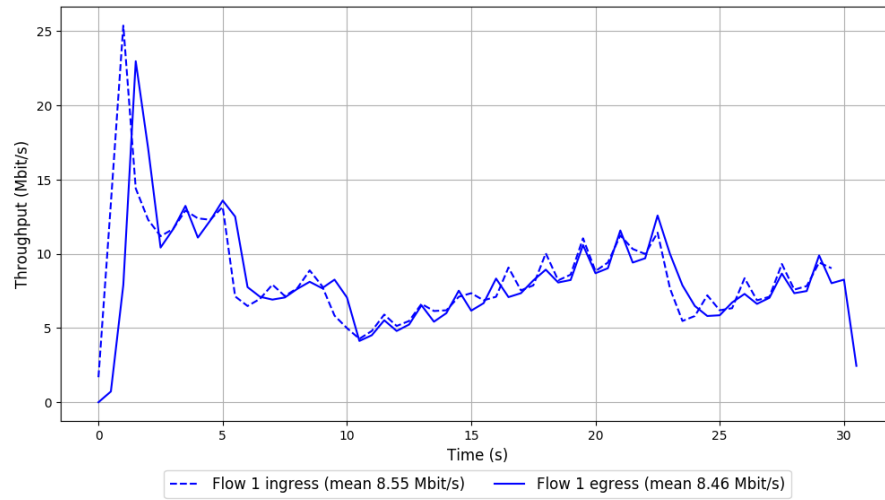
-- Flow 1:

Average throughput: 8.46 Mbit/s

95th percentile per-packet one-way delay: 87.704 ms

Loss rate: 1.04%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-07-17 11:22:53

End at: 2018-07-17 11:23:23

Local clock offset: -6.883 ms

Remote clock offset: 0.761 ms

Below is generated by plot.py at 2018-07-17 13:44:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.17 Mbit/s

95th percentile per-packet one-way delay: 87.743 ms

Loss rate: 0.34%

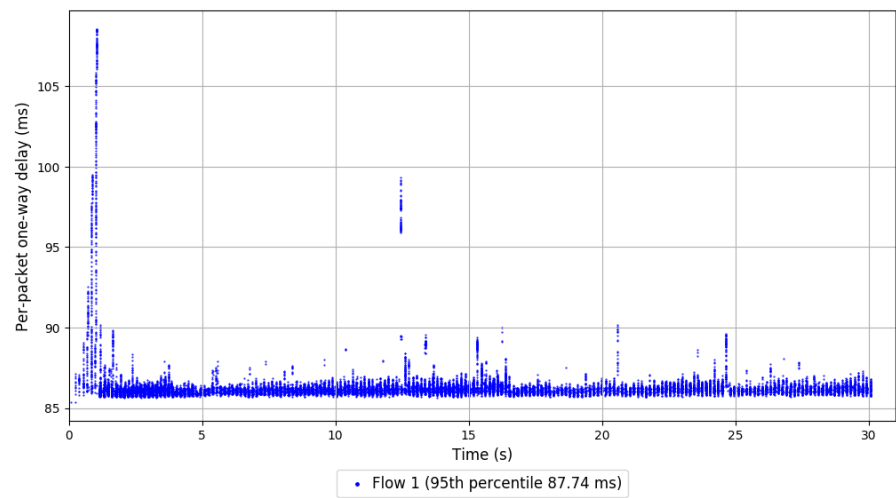
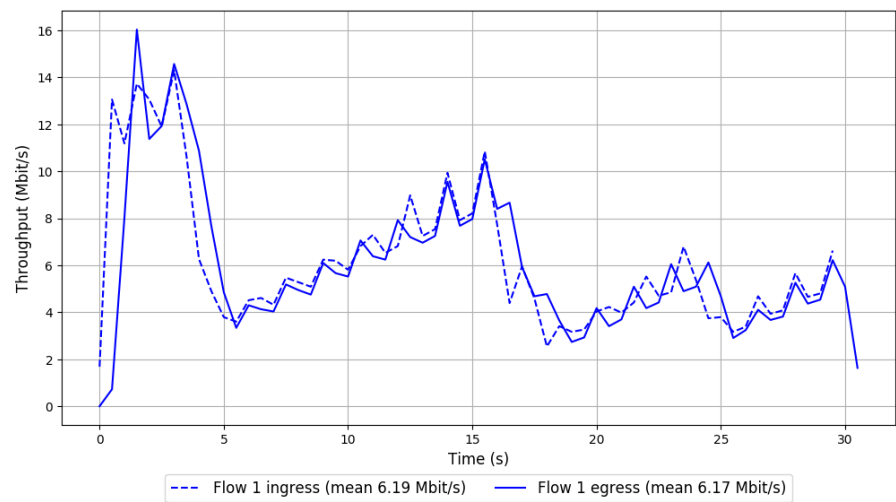
-- Flow 1:

Average throughput: 6.17 Mbit/s

95th percentile per-packet one-way delay: 87.743 ms

Loss rate: 0.34%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-07-17 11:54:23

End at: 2018-07-17 11:54:53

Local clock offset: 0.874 ms

Remote clock offset: 0.522 ms

Below is generated by plot.py at 2018-07-17 13:44:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 14.90 Mbit/s

95th percentile per-packet one-way delay: 102.529 ms

Loss rate: 0.48%

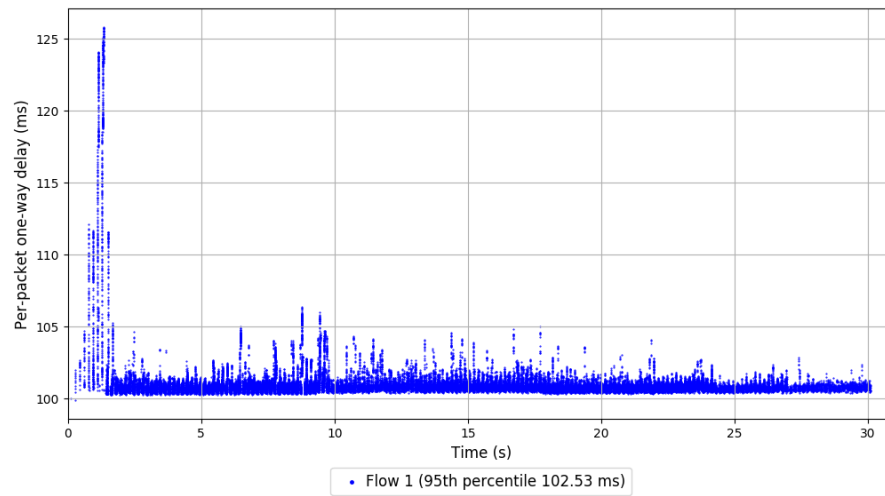
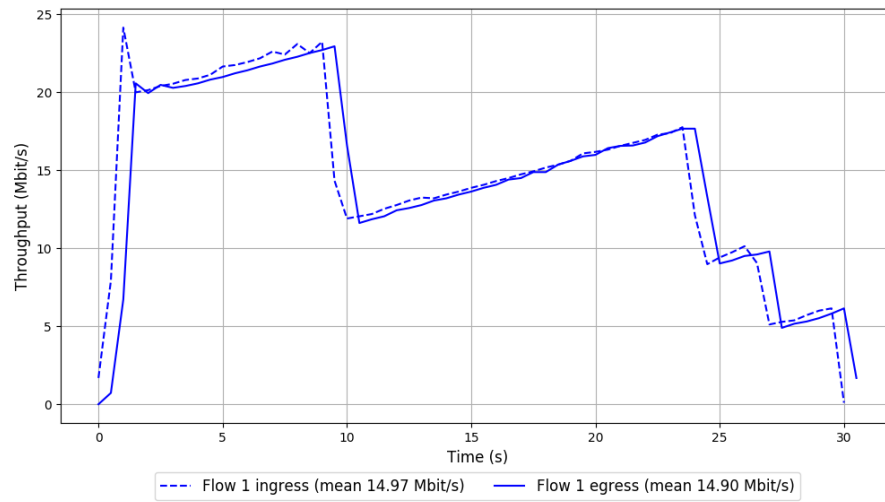
-- Flow 1:

Average throughput: 14.90 Mbit/s

95th percentile per-packet one-way delay: 102.529 ms

Loss rate: 0.48%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-07-17 12:26:21

End at: 2018-07-17 12:26:51

Local clock offset: 4.311 ms

Remote clock offset: 0.428 ms

Below is generated by plot.py at 2018-07-17 13:44:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.37 Mbit/s

95th percentile per-packet one-way delay: 103.776 ms

Loss rate: 0.56%

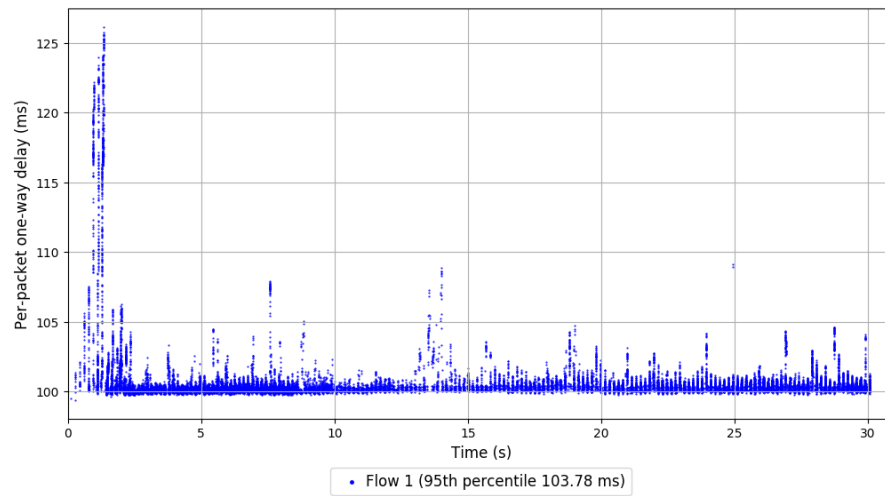
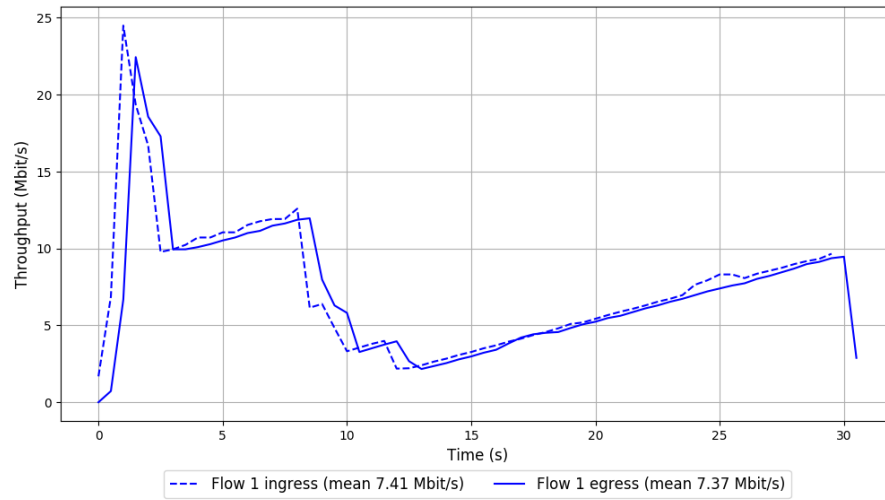
-- Flow 1:

Average throughput: 7.37 Mbit/s

95th percentile per-packet one-way delay: 103.776 ms

Loss rate: 0.56%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-07-17 12:56:02

End at: 2018-07-17 12:56:32

Local clock offset: 6.38 ms

Remote clock offset: 0.257 ms

Below is generated by plot.py at 2018-07-17 13:44:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.32 Mbit/s

95th percentile per-packet one-way delay: 88.407 ms

Loss rate: 0.32%

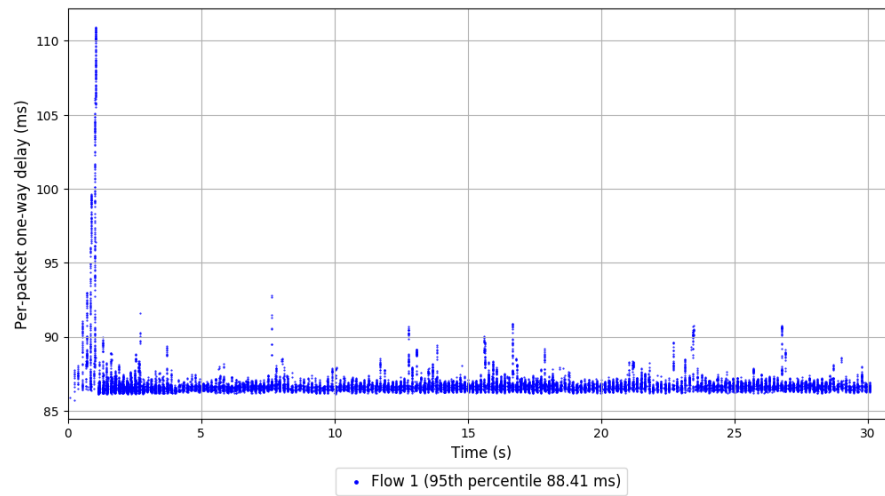
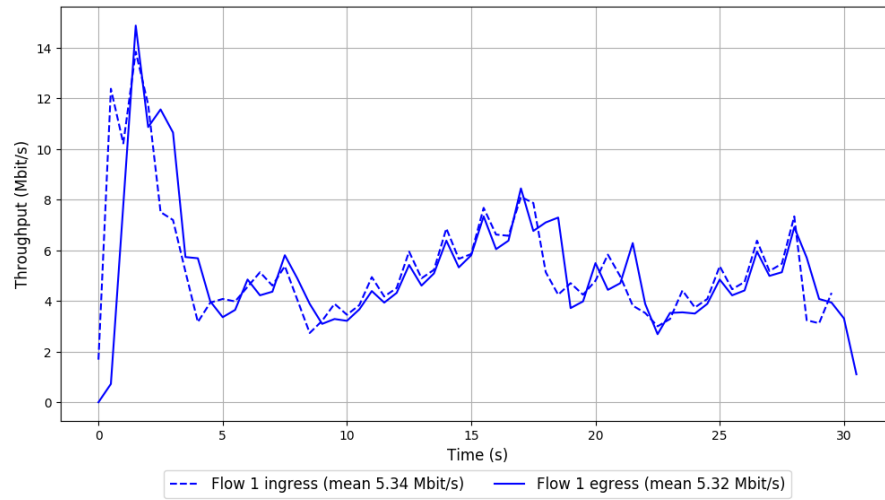
-- Flow 1:

Average throughput: 5.32 Mbit/s

95th percentile per-packet one-way delay: 88.407 ms

Loss rate: 0.32%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-07-17 13:24:17

End at: 2018-07-17 13:24:47

Local clock offset: 3.913 ms

Remote clock offset: -0.024 ms

Below is generated by plot.py at 2018-07-17 13:44:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 10.94 Mbit/s

95th percentile per-packet one-way delay: 104.099 ms

Loss rate: 0.69%

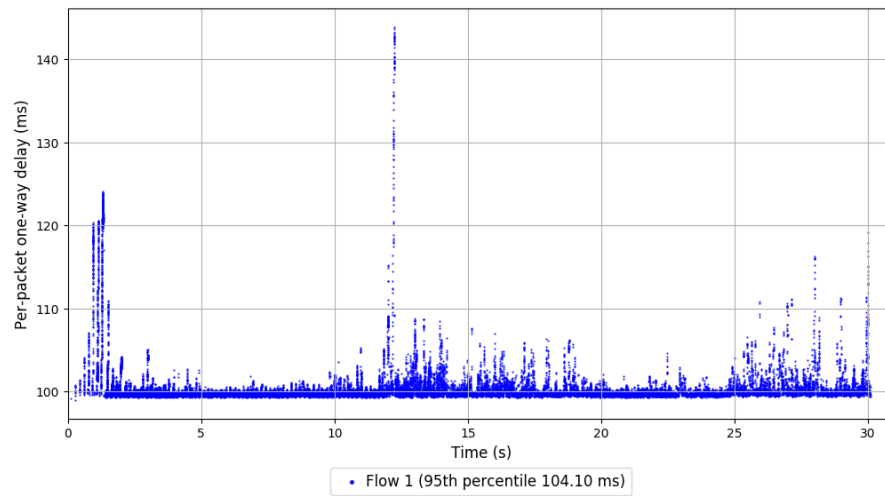
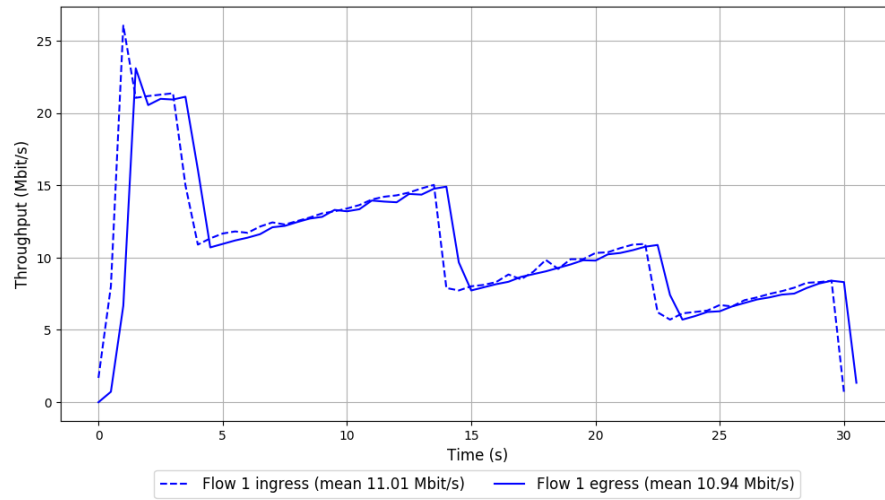
-- Flow 1:

Average throughput: 10.94 Mbit/s

95th percentile per-packet one-way delay: 104.099 ms

Loss rate: 0.69%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-07-17 09:07:17

End at: 2018-07-17 09:07:47

Local clock offset: 15.232 ms

Remote clock offset: 0.572 ms

Below is generated by plot.py at 2018-07-17 13:45:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 18.02 Mbit/s

95th percentile per-packet one-way delay: 198.293 ms

Loss rate: 89.61%

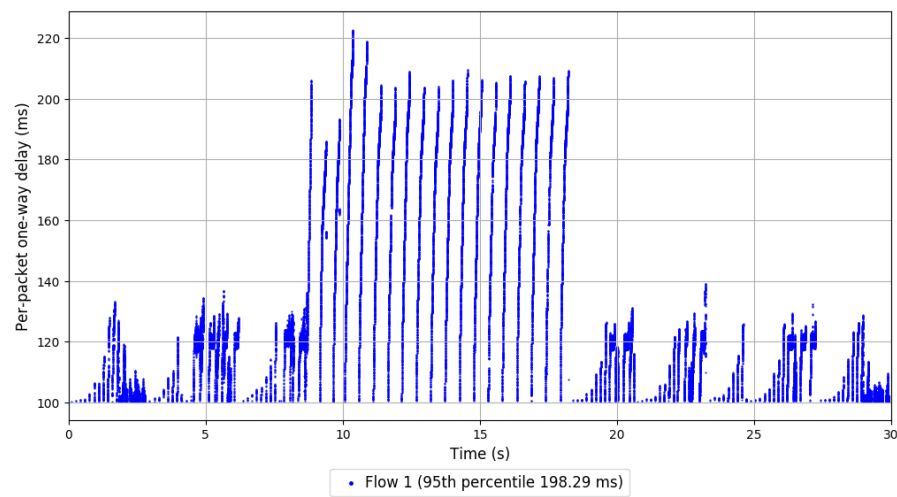
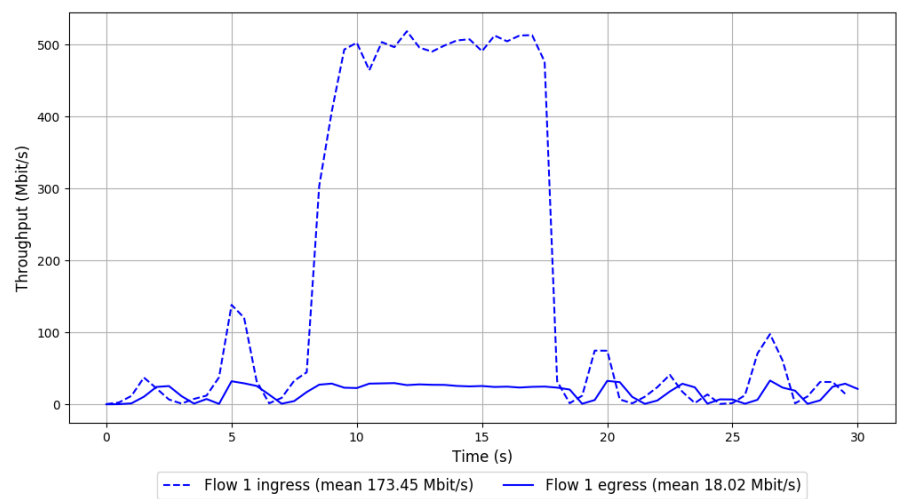
-- Flow 1:

Average throughput: 18.02 Mbit/s

95th percentile per-packet one-way delay: 198.293 ms

Loss rate: 89.61%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-07-17 09:34:15

End at: 2018-07-17 09:34:45

Local clock offset: 6.519 ms

Remote clock offset: 0.888 ms

Below is generated by plot.py at 2018-07-17 13:45:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 17.25 Mbit/s

95th percentile per-packet one-way delay: 153.861 ms

Loss rate: 82.04%

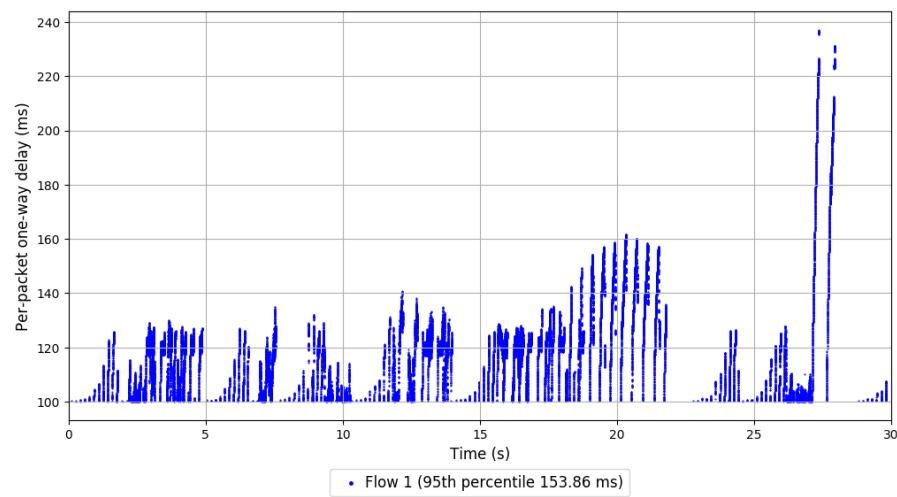
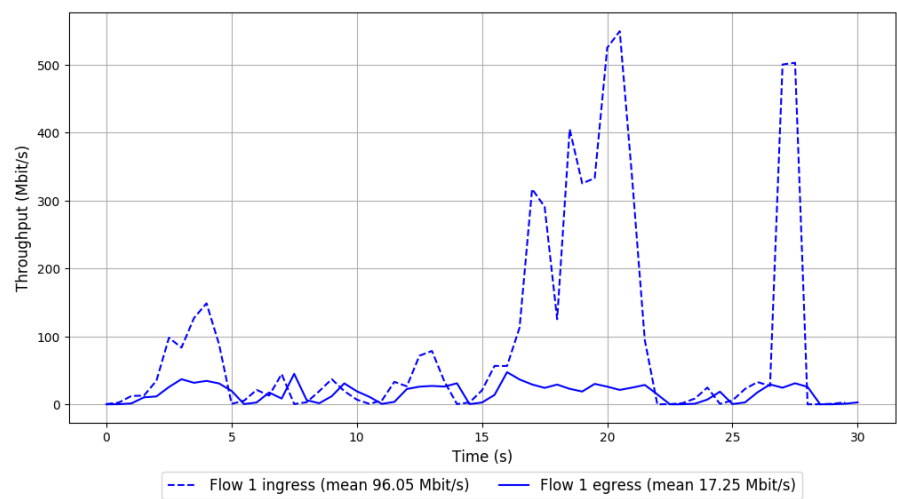
-- Flow 1:

Average throughput: 17.25 Mbit/s

95th percentile per-packet one-way delay: 153.861 ms

Loss rate: 82.04%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-07-17 10:01:49

End at: 2018-07-17 10:02:19

Local clock offset: -5.199 ms

Remote clock offset: 1.109 ms

Below is generated by plot.py at 2018-07-17 13:45:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 20.55 Mbit/s

95th percentile per-packet one-way delay: 110.597 ms

Loss rate: 66.05%

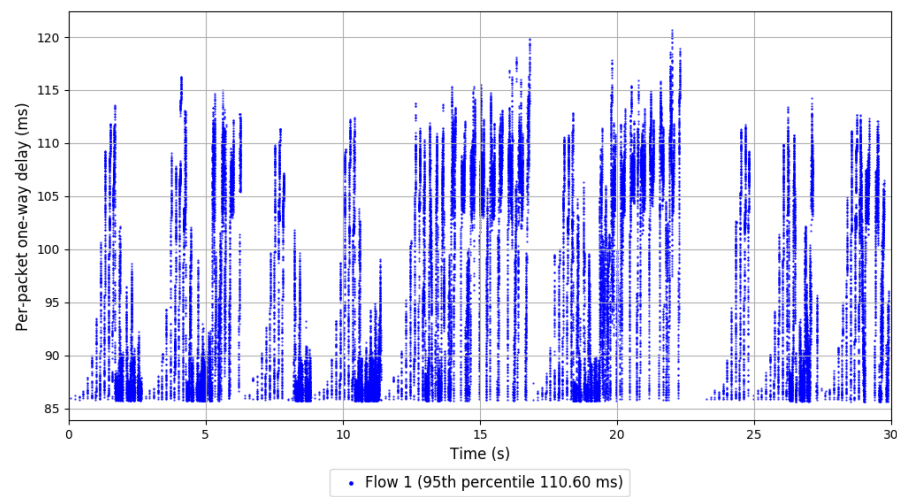
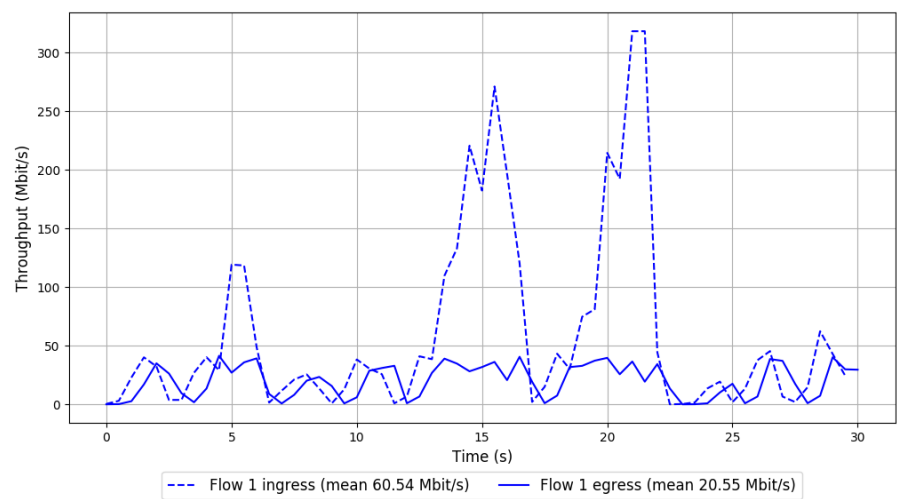
-- Flow 1:

Average throughput: 20.55 Mbit/s

95th percentile per-packet one-way delay: 110.597 ms

Loss rate: 66.05%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-07-17 10:27:48

End at: 2018-07-17 10:28:18

Local clock offset: -0.961 ms

Remote clock offset: 1.166 ms

Below is generated by plot.py at 2018-07-17 13:45:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 22.97 Mbit/s

95th percentile per-packet one-way delay: 204.337 ms

Loss rate: 91.85%

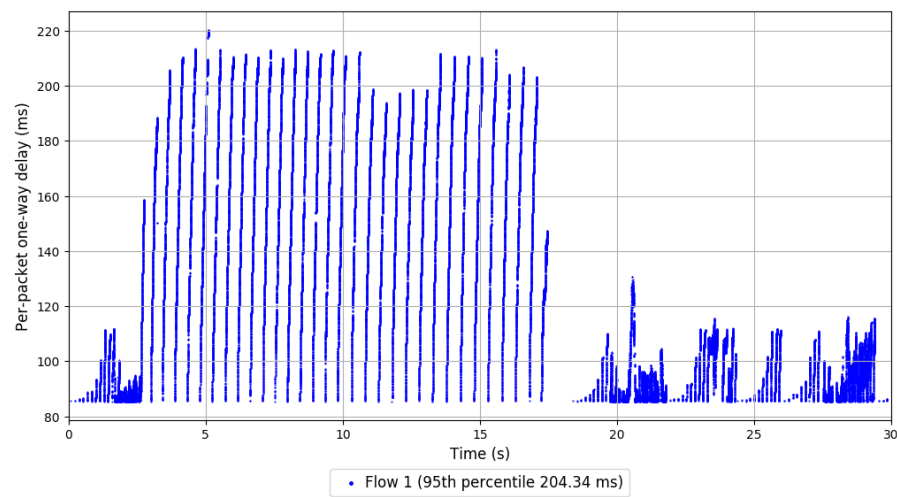
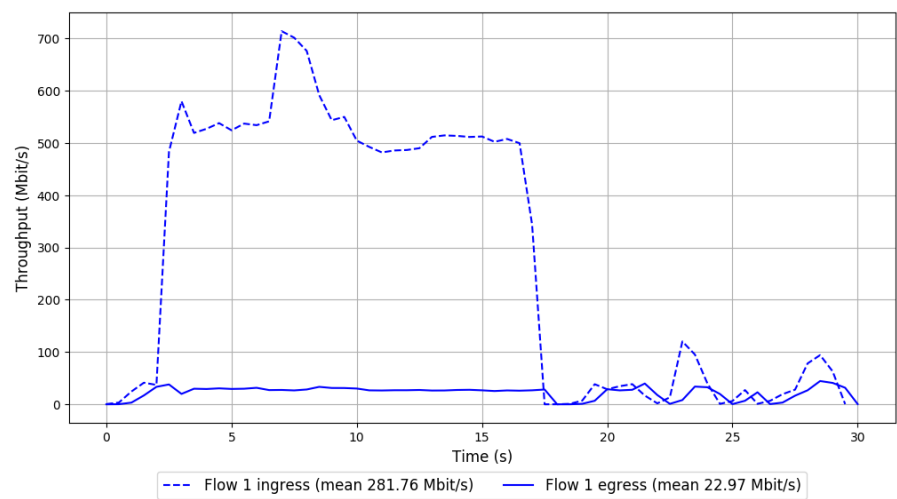
-- Flow 1:

Average throughput: 22.97 Mbit/s

95th percentile per-packet one-way delay: 204.337 ms

Loss rate: 91.85%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-07-17 10:54:04

End at: 2018-07-17 10:54:34

Local clock offset: -7.394 ms

Remote clock offset: 1.057 ms

Below is generated by plot.py at 2018-07-17 13:45:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 17.69 Mbit/s

95th percentile per-packet one-way delay: 128.016 ms

Loss rate: 55.48%

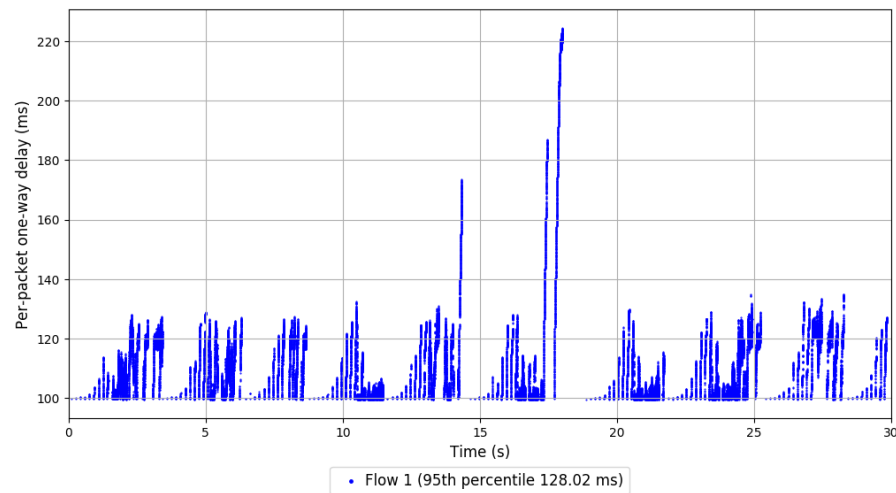
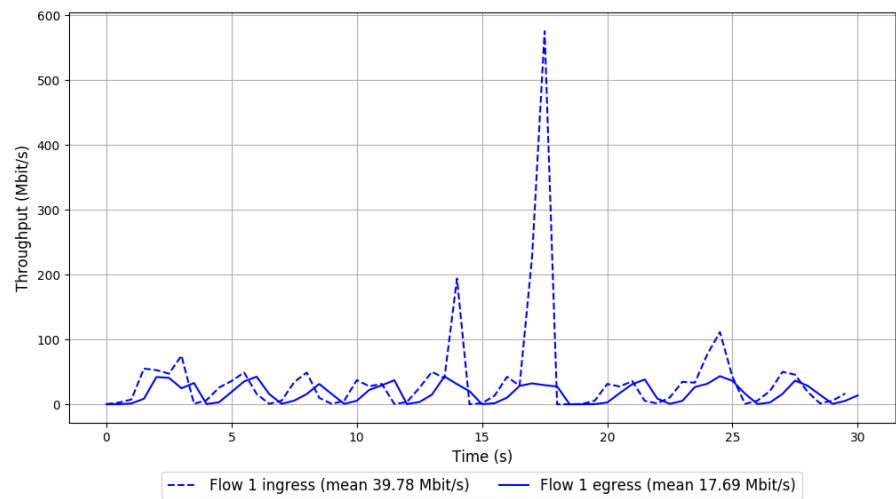
-- Flow 1:

Average throughput: 17.69 Mbit/s

95th percentile per-packet one-way delay: 128.016 ms

Loss rate: 55.48%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-07-17 11:21:14

End at: 2018-07-17 11:21:44

Local clock offset: -7.092 ms

Remote clock offset: 0.756 ms

Below is generated by plot.py at 2018-07-17 13:45:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 21.94 Mbit/s

95th percentile per-packet one-way delay: 183.015 ms

Loss rate: 89.89%

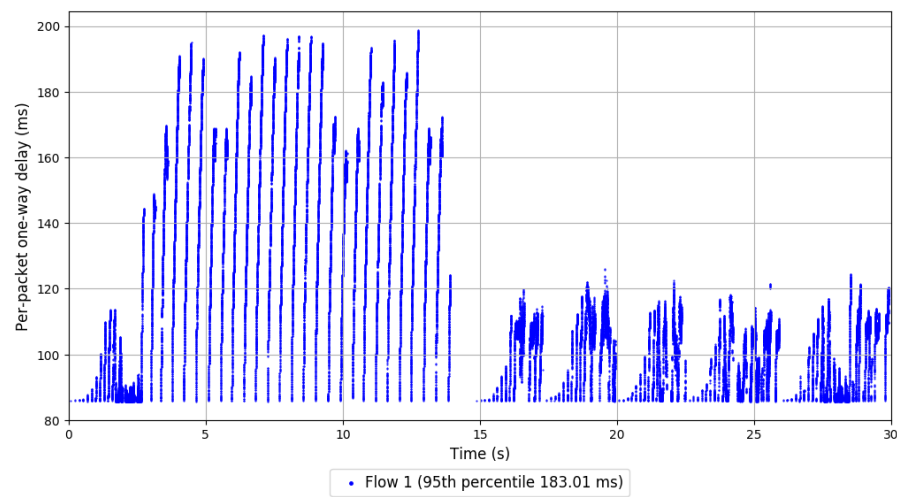
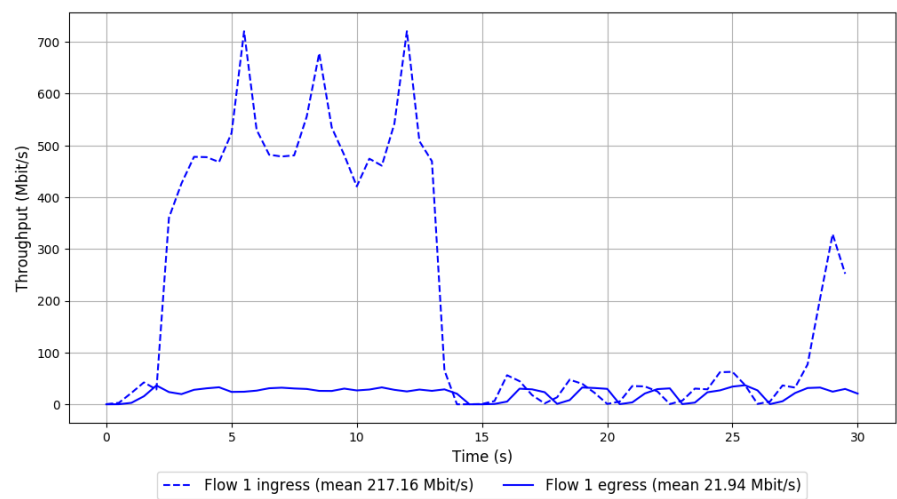
-- Flow 1:

Average throughput: 21.94 Mbit/s

95th percentile per-packet one-way delay: 183.015 ms

Loss rate: 89.89%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-07-17 11:52:45

End at: 2018-07-17 11:53:16

Local clock offset: 0.497 ms

Remote clock offset: 0.527 ms

Below is generated by plot.py at 2018-07-17 13:45:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 18.44 Mbit/s

95th percentile per-packet one-way delay: 109.459 ms

Loss rate: 49.40%

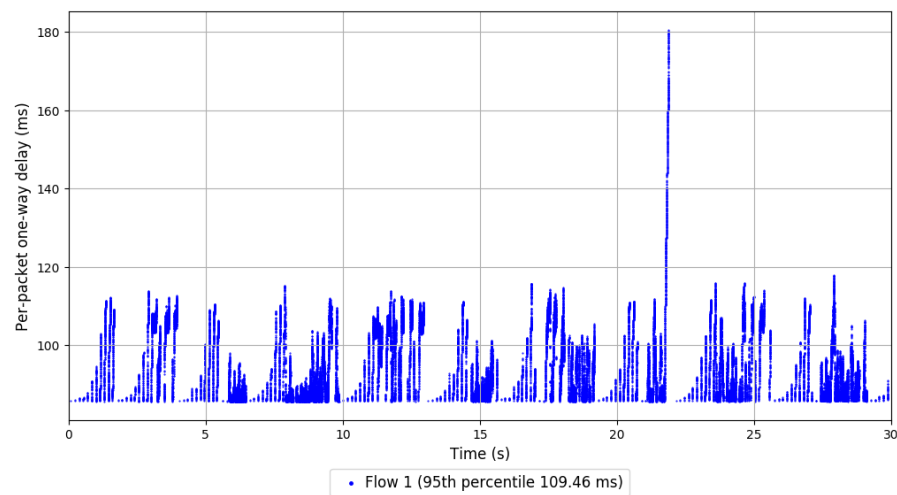
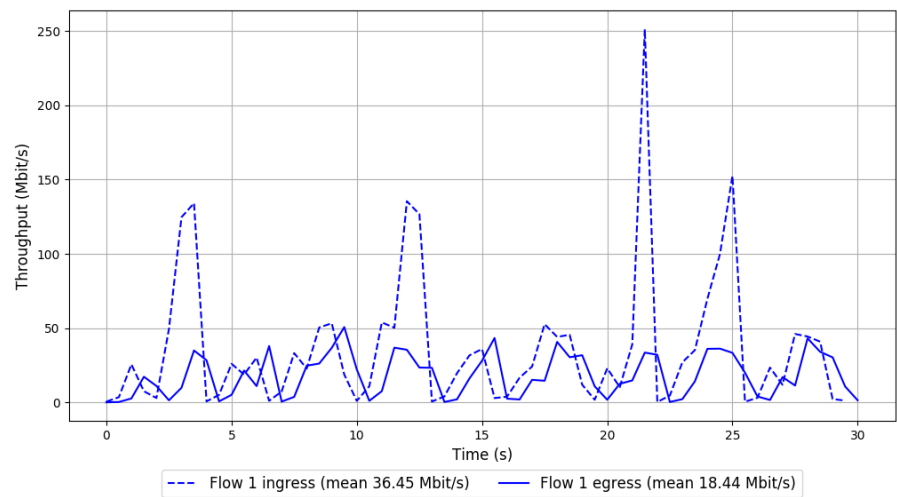
-- Flow 1:

Average throughput: 18.44 Mbit/s

95th percentile per-packet one-way delay: 109.459 ms

Loss rate: 49.40%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-07-17 12:24:32

End at: 2018-07-17 12:25:02

Local clock offset: 3.913 ms

Remote clock offset: 0.38 ms

Below is generated by plot.py at 2018-07-17 13:45:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 22.49 Mbit/s

95th percentile per-packet one-way delay: 185.099 ms

Loss rate: 91.79%

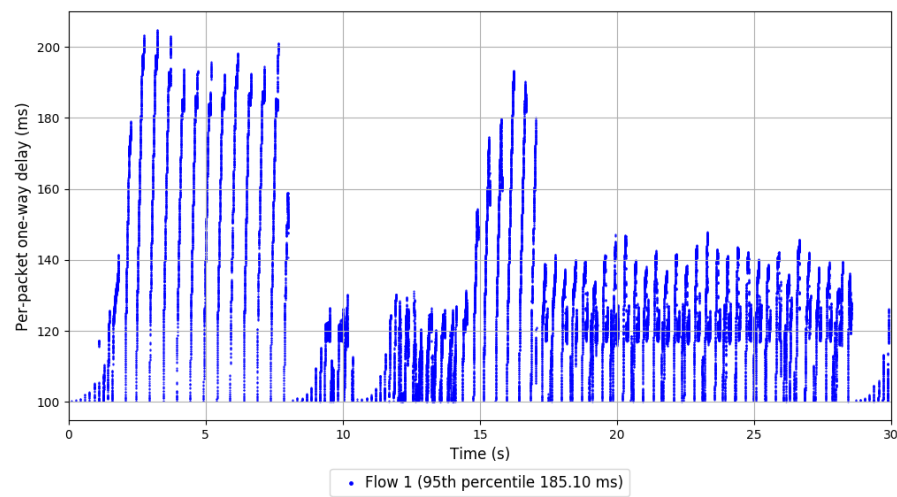
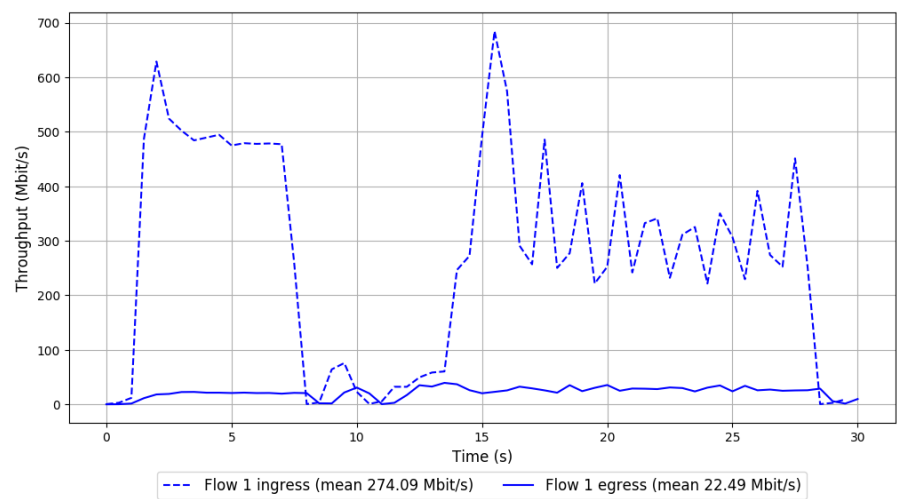
-- Flow 1:

Average throughput: 22.49 Mbit/s

95th percentile per-packet one-way delay: 185.099 ms

Loss rate: 91.79%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-07-17 12:54:03

End at: 2018-07-17 12:54:33

Local clock offset: 6.492 ms

Remote clock offset: 0.193 ms

Below is generated by plot.py at 2018-07-17 13:45:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 21.27 Mbit/s

95th percentile per-packet one-way delay: 128.265 ms

Loss rate: 81.34%

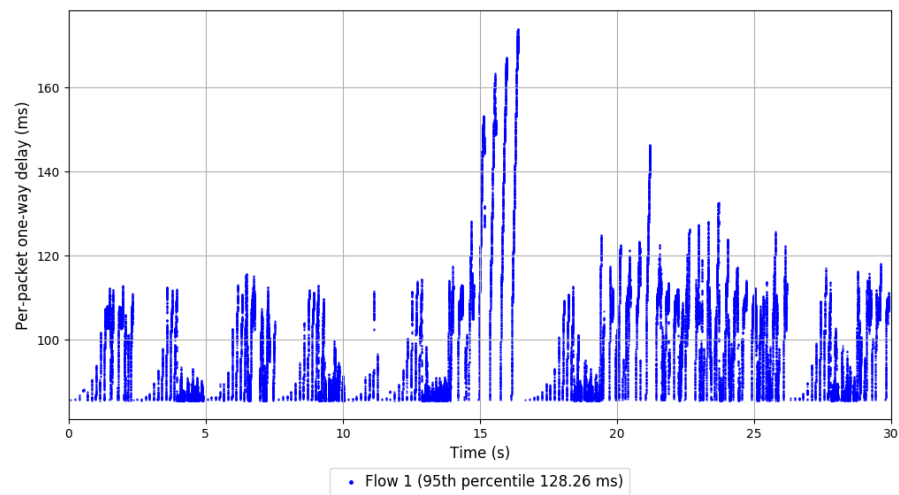
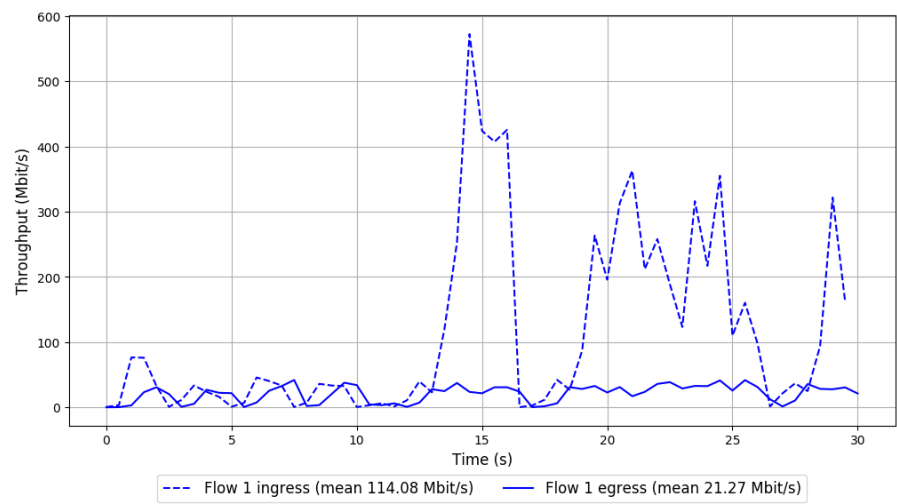
-- Flow 1:

Average throughput: 21.27 Mbit/s

95th percentile per-packet one-way delay: 128.265 ms

Loss rate: 81.34%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-07-17 13:22:44

End at: 2018-07-17 13:23:14

Local clock offset: 4.138 ms

Remote clock offset: 0.161 ms

Below is generated by plot.py at 2018-07-17 13:45:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 16.35 Mbit/s

95th percentile per-packet one-way delay: 128.077 ms

Loss rate: 41.85%

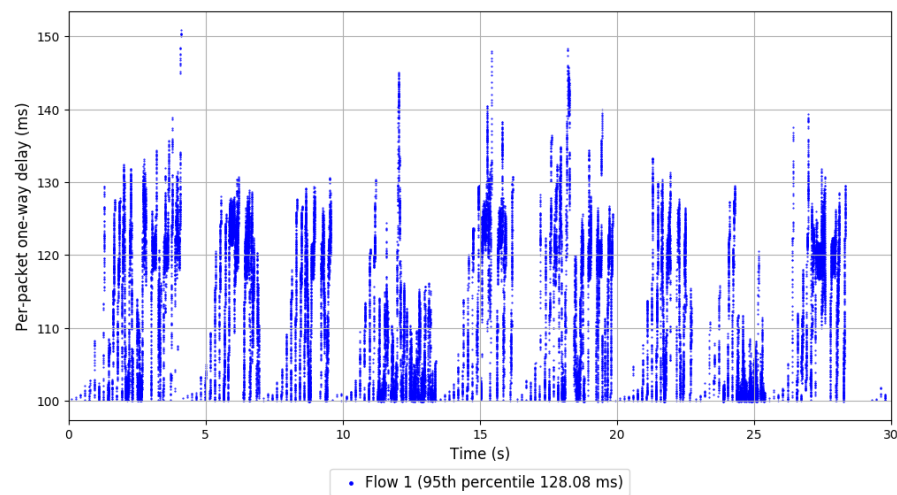
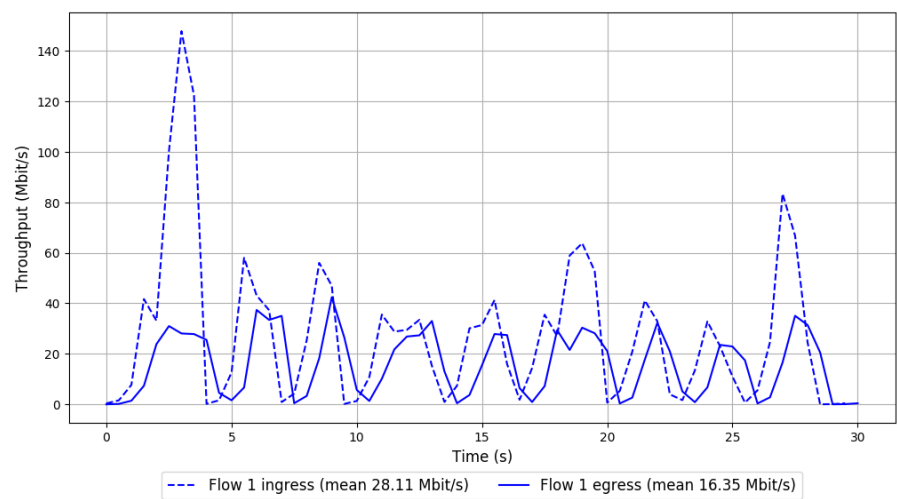
-- Flow 1:

Average throughput: 16.35 Mbit/s

95th percentile per-packet one-way delay: 128.077 ms

Loss rate: 41.85%

Run 10: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2018-07-17 09:11:20

End at: 2018-07-17 09:11:50

Local clock offset: 16.04 ms

Remote clock offset: 0.648 ms

Below is generated by plot.py at 2018-07-17 13:45:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 43.05 Mbit/s

95th percentile per-packet one-way delay: 108.477 ms

Loss rate: 0.85%

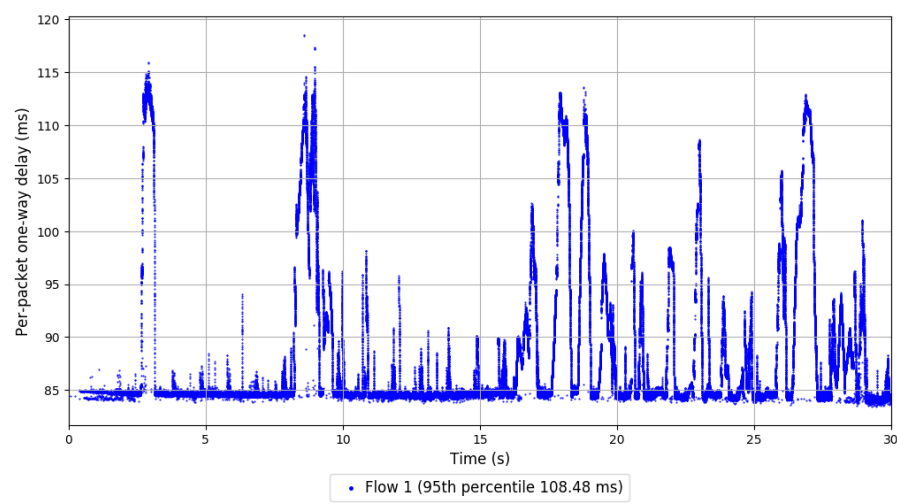
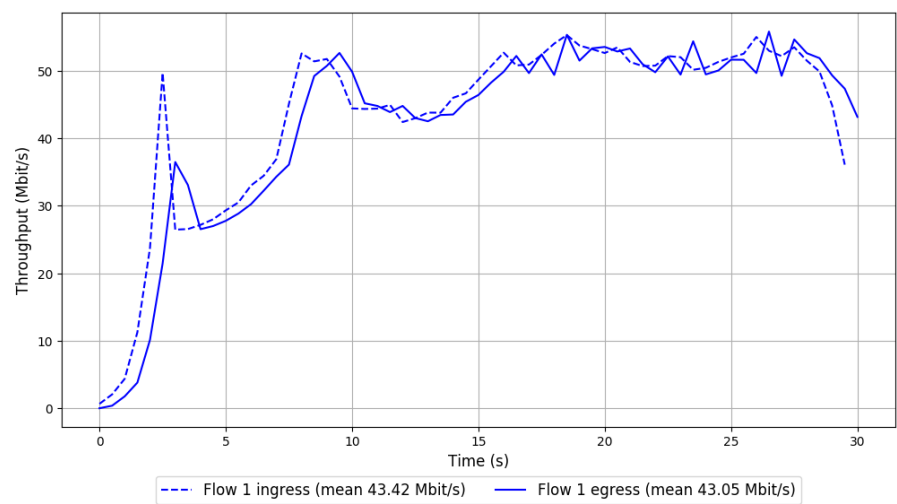
-- Flow 1:

Average throughput: 43.05 Mbit/s

95th percentile per-packet one-way delay: 108.477 ms

Loss rate: 0.85%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2018-07-17 09:38:29

End at: 2018-07-17 09:38:59

Local clock offset: 6.954 ms

Remote clock offset: 0.94 ms

Below is generated by plot.py at 2018-07-17 13:45:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 43.85 Mbit/s

95th percentile per-packet one-way delay: 125.133 ms

Loss rate: 2.11%

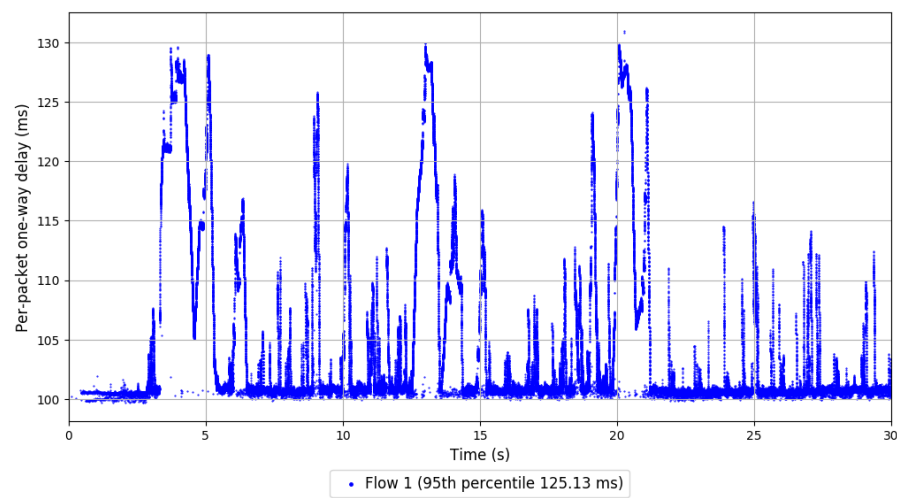
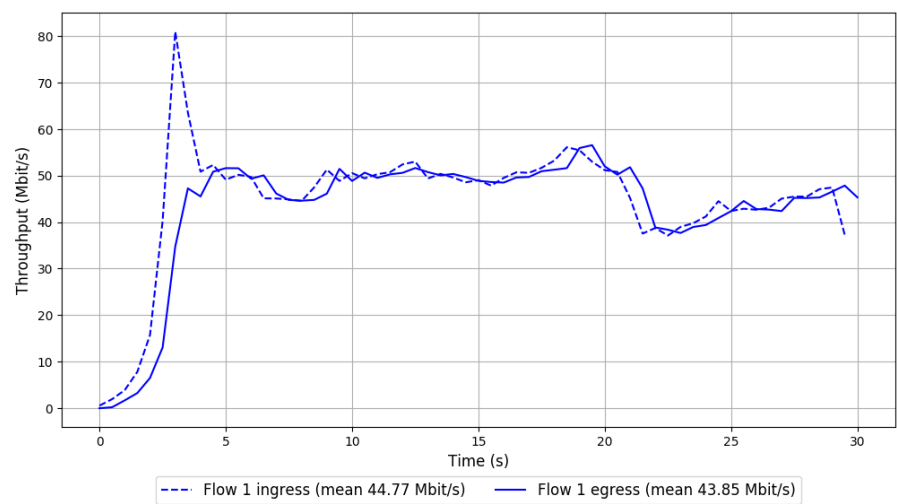
-- Flow 1:

Average throughput: 43.85 Mbit/s

95th percentile per-packet one-way delay: 125.133 ms

Loss rate: 2.11%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-07-17 10:06:22

End at: 2018-07-17 10:06:52

Local clock offset: -5.803 ms

Remote clock offset: 1.147 ms

Below is generated by plot.py at 2018-07-17 13:45:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 40.06 Mbit/s

95th percentile per-packet one-way delay: 108.603 ms

Loss rate: 0.22%

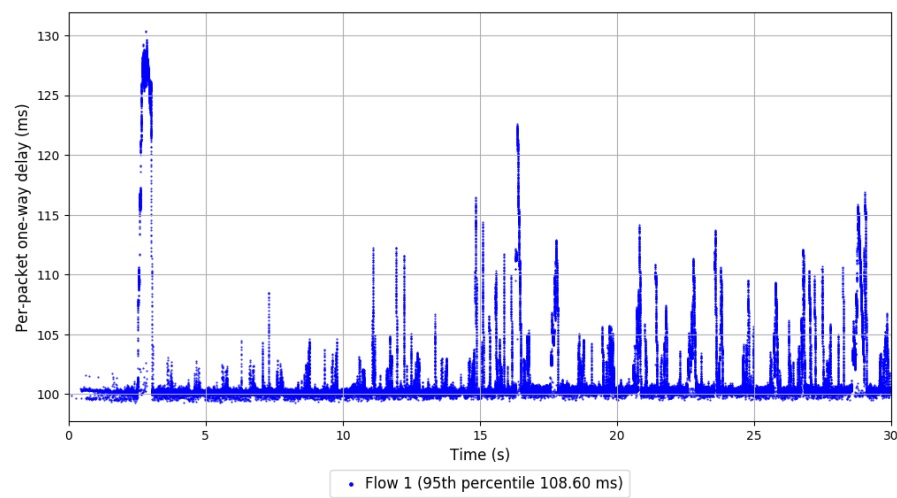
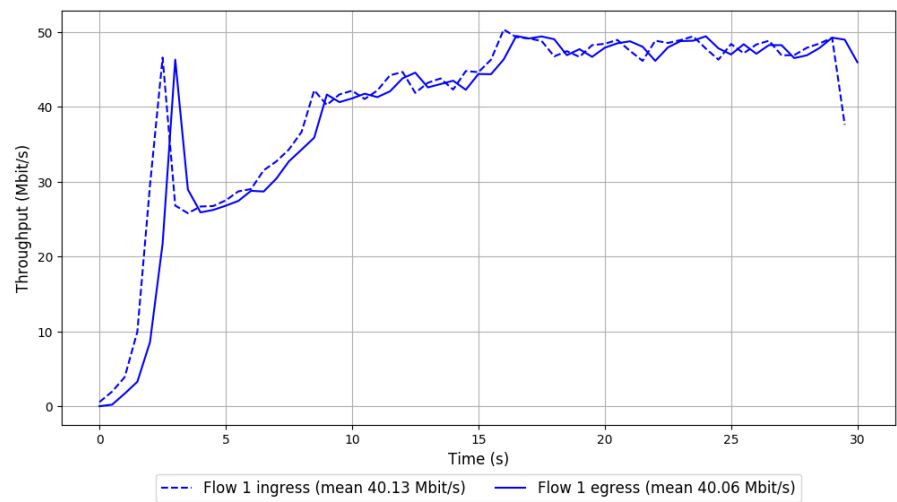
-- Flow 1:

Average throughput: 40.06 Mbit/s

95th percentile per-packet one-way delay: 108.603 ms

Loss rate: 0.22%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2018-07-17 10:32:13

End at: 2018-07-17 10:32:43

Local clock offset: -0.237 ms

Remote clock offset: 1.157 ms

Below is generated by plot.py at 2018-07-17 13:45:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 45.03 Mbit/s

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

Loss rate: 3.66%

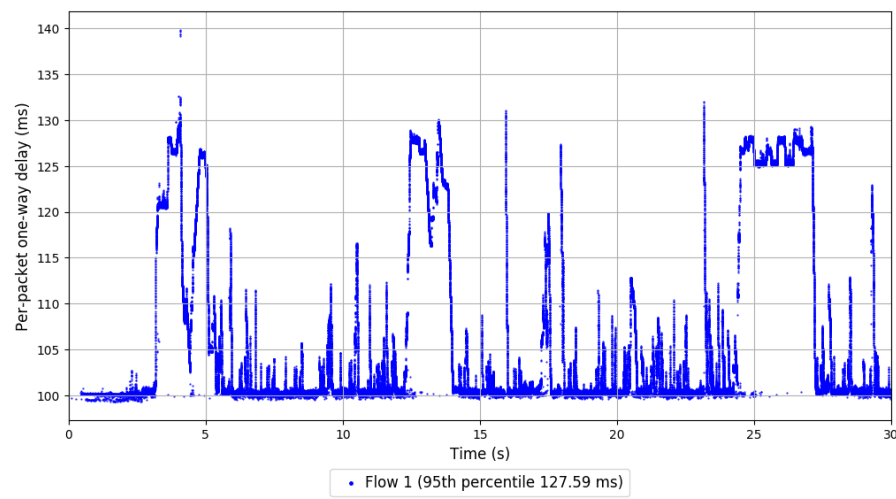
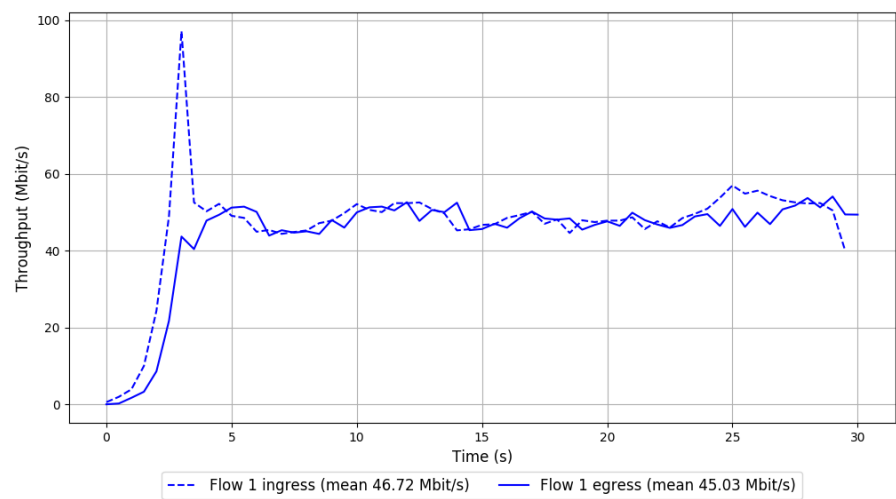
-- Flow 1:

Average throughput: 45.03 Mbit/s

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

Loss rate: 3.66%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2018-07-17 10:58:24

End at: 2018-07-17 10:58:54

Local clock offset: -8.643 ms

Remote clock offset: 0.976 ms

Below is generated by plot.py at 2018-07-17 13:45:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 43.32 Mbit/s

95th percentile per-packet one-way delay: 109.887 ms

Loss rate: 1.76%

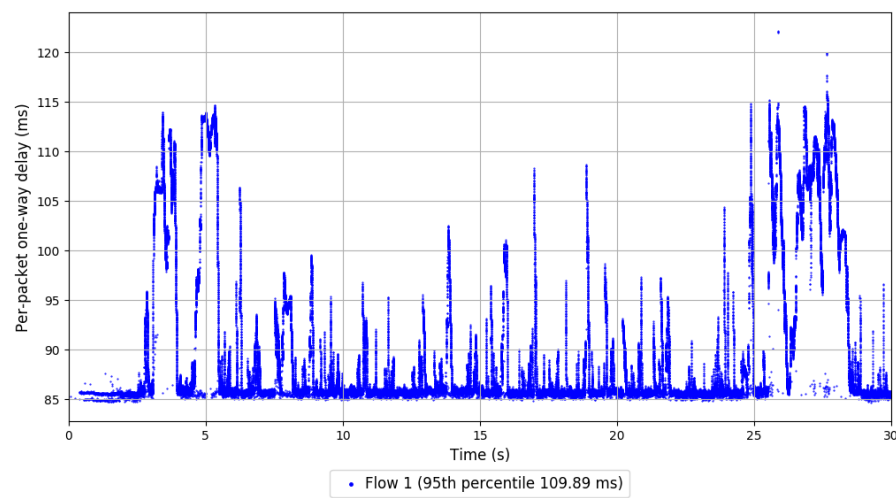
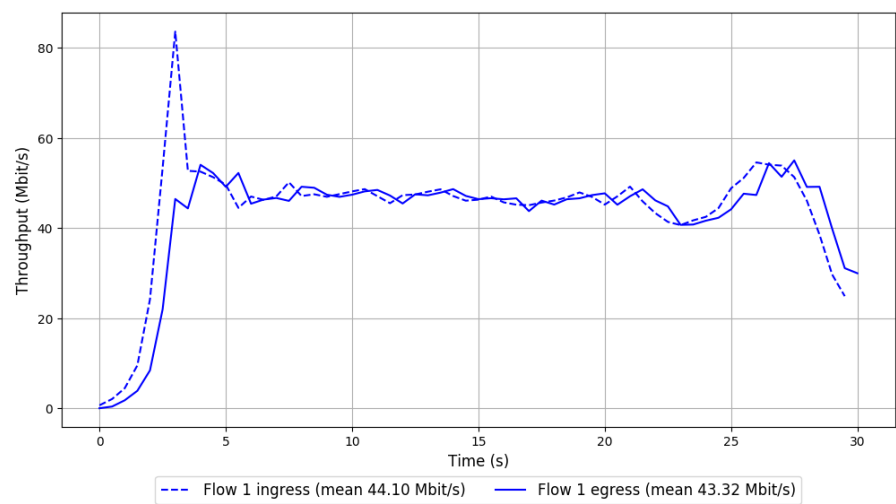
-- Flow 1:

Average throughput: 43.32 Mbit/s

95th percentile per-packet one-way delay: 109.887 ms

Loss rate: 1.76%

Run 5: Report of PCC-Vivace — Data Link



Run 6: Statistics of PCC-Vivace

Start at: 2018-07-17 11:25:44

End at: 2018-07-17 11:26:14

Local clock offset: -6.581 ms

Remote clock offset: 0.841 ms

Below is generated by plot.py at 2018-07-17 13:45:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 41.64 Mbit/s

95th percentile per-packet one-way delay: 107.865 ms

Loss rate: 2.32%

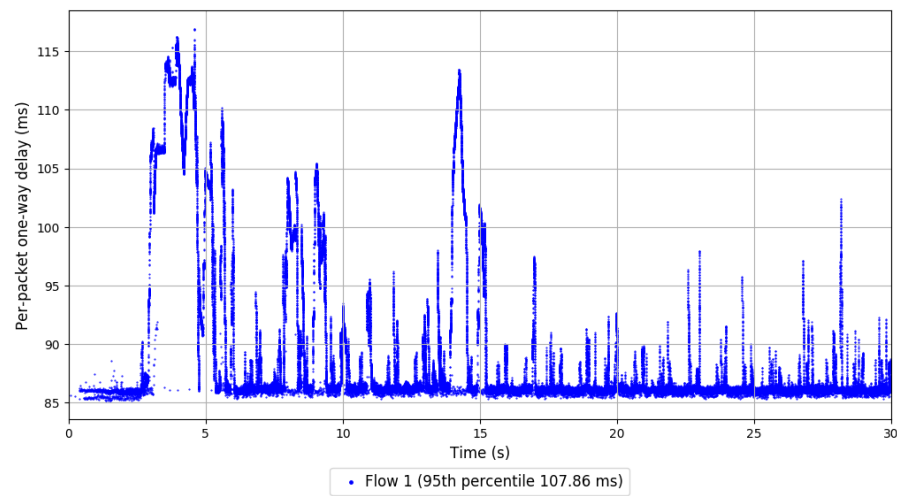
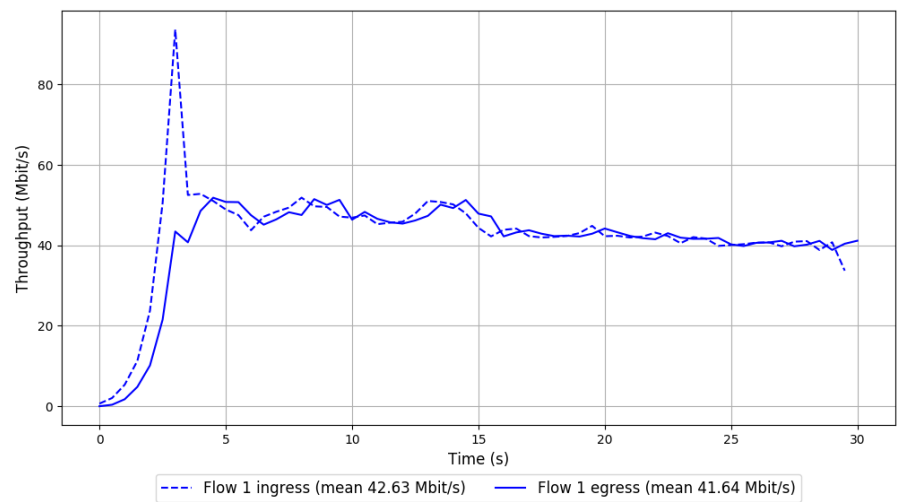
-- Flow 1:

Average throughput: 41.64 Mbit/s

95th percentile per-packet one-way delay: 107.865 ms

Loss rate: 2.32%

Run 6: Report of PCC-Vivace — Data Link



Run 7: Statistics of PCC-Vivace

Start at: 2018-07-17 11:57:36

End at: 2018-07-17 11:58:06

Local clock offset: 1.639 ms

Remote clock offset: 0.54 ms

Below is generated by plot.py at 2018-07-17 13:46:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 42.28 Mbit/s

95th percentile per-packet one-way delay: 113.621 ms

Loss rate: 2.09%

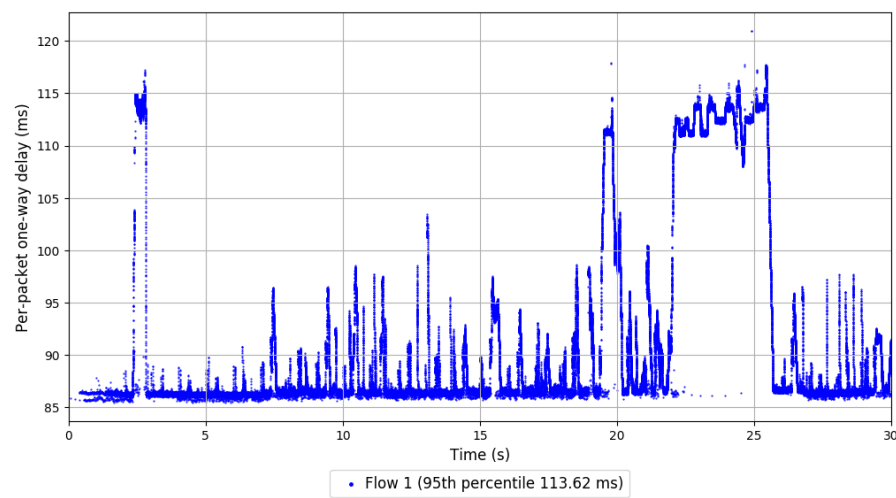
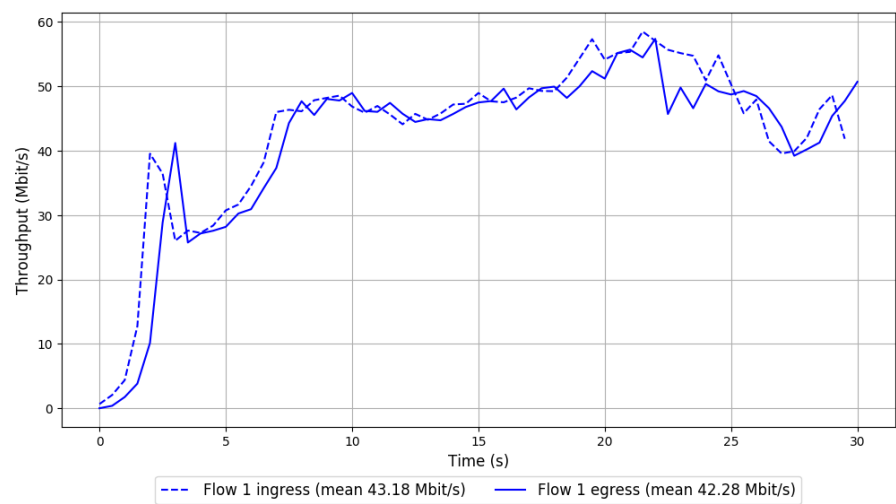
-- Flow 1:

Average throughput: 42.28 Mbit/s

95th percentile per-packet one-way delay: 113.621 ms

Loss rate: 2.09%

Run 7: Report of PCC-Vivace — Data Link



Run 8: Statistics of PCC-Vivace

Start at: 2018-07-17 12:29:25

End at: 2018-07-17 12:29:55

Local clock offset: 4.434 ms

Remote clock offset: 0.426 ms

Below is generated by plot.py at 2018-07-17 13:46:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 37.25 Mbit/s

95th percentile per-packet one-way delay: 126.613 ms

Loss rate: 1.00%

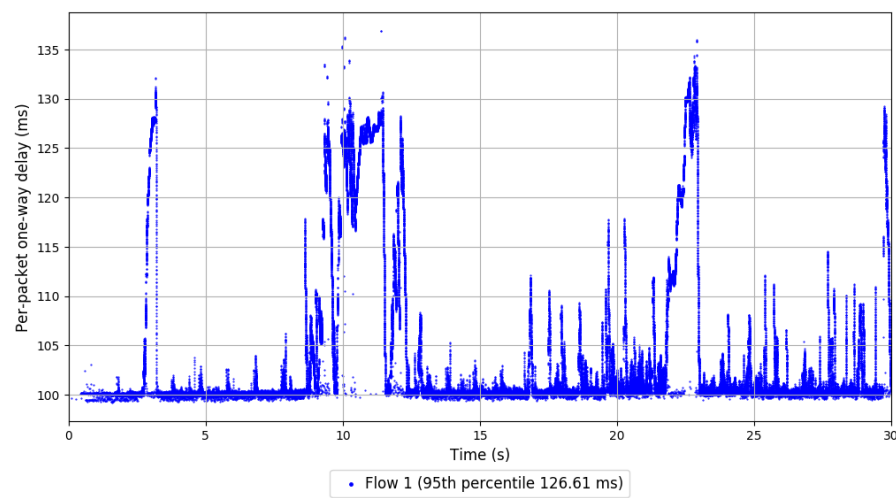
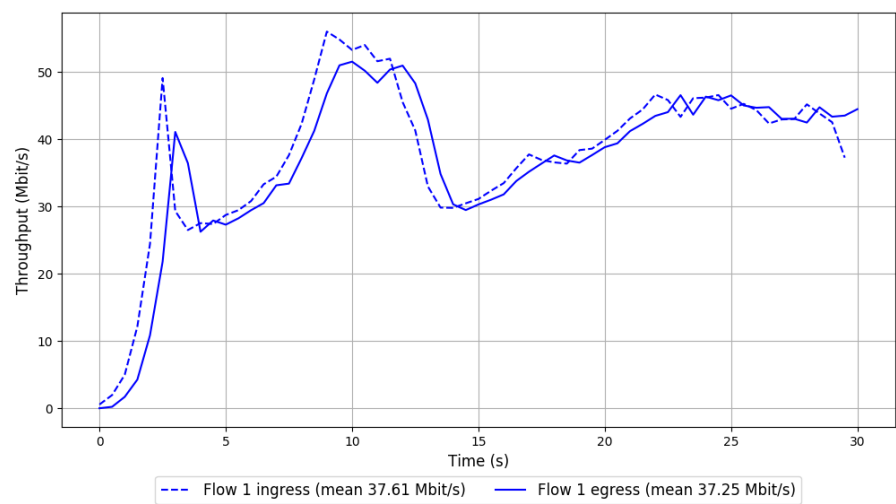
-- Flow 1:

Average throughput: 37.25 Mbit/s

95th percentile per-packet one-way delay: 126.613 ms

Loss rate: 1.00%

Run 8: Report of PCC-Vivace — Data Link



Run 9: Statistics of PCC-Vivace

Start at: 2018-07-17 12:59:16

End at: 2018-07-17 12:59:46

Local clock offset: 7.008 ms

Remote clock offset: 0.311 ms

Below is generated by plot.py at 2018-07-17 13:46:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 35.53 Mbit/s

95th percentile per-packet one-way delay: 98.070 ms

Loss rate: 0.19%

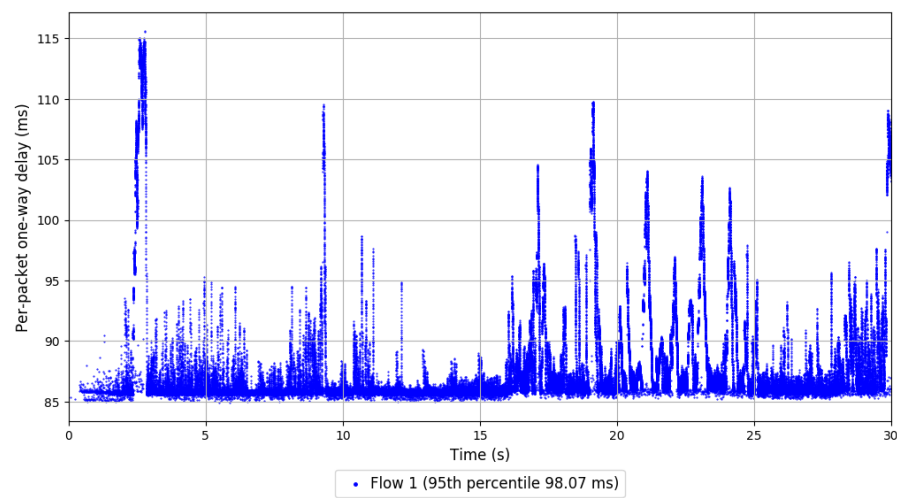
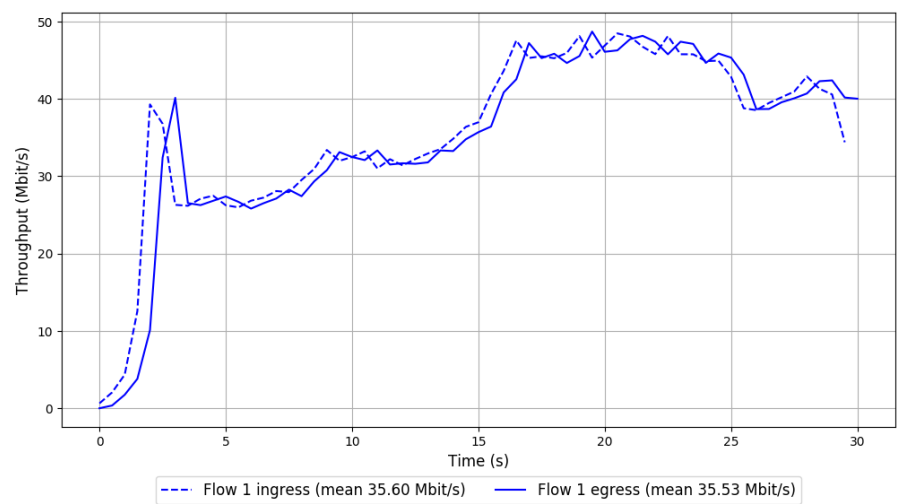
-- Flow 1:

Average throughput: 35.53 Mbit/s

95th percentile per-packet one-way delay: 98.070 ms

Loss rate: 0.19%

Run 9: Report of PCC-Vivace — Data Link



Run 10: Statistics of PCC-Vivace

Start at: 2018-07-17 13:27:11

End at: 2018-07-17 13:27:41

Local clock offset: 3.426 ms

Remote clock offset: -0.005 ms

Below is generated by plot.py at 2018-07-17 13:46:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 24.97 Mbit/s

95th percentile per-packet one-way delay: 131.721 ms

Loss rate: 6.45%

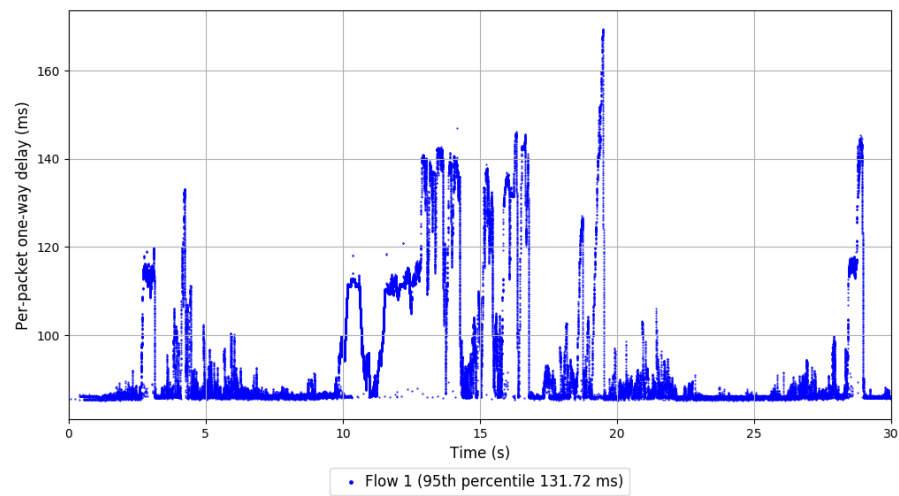
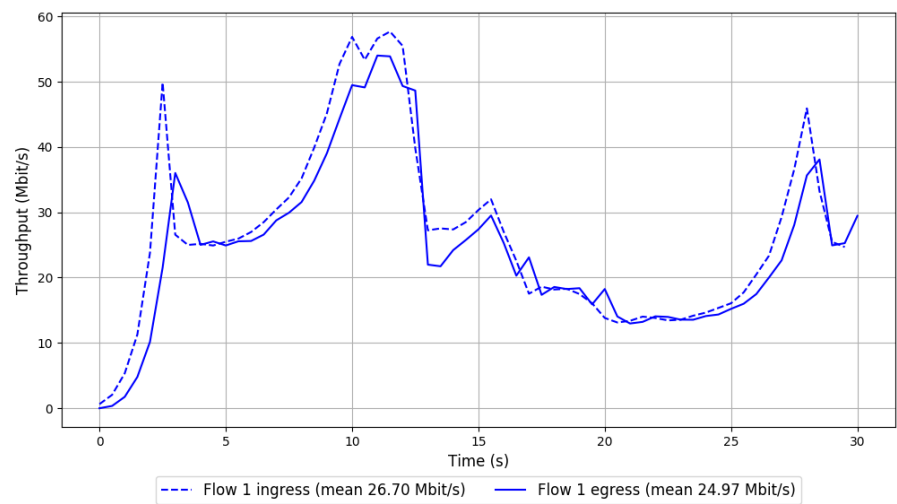
-- Flow 1:

Average throughput: 24.97 Mbit/s

95th percentile per-packet one-way delay: 131.721 ms

Loss rate: 6.45%

Run 10: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

Start at: 2018-07-17 09:16:11

End at: 2018-07-17 09:16:41

Local clock offset: 10.674 ms

Remote clock offset: 0.73 ms

Below is generated by plot.py at 2018-07-17 13:46:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.35 Mbit/s

95th percentile per-packet one-way delay: 85.740 ms

Loss rate: 0.07%

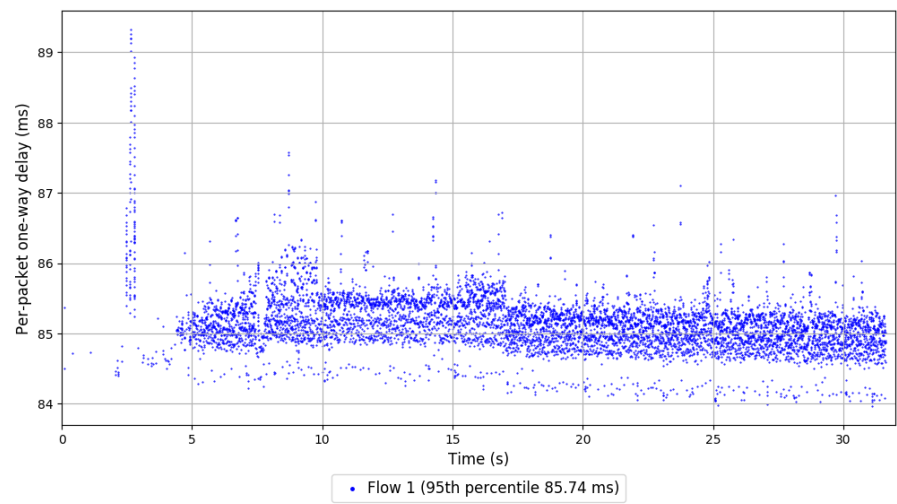
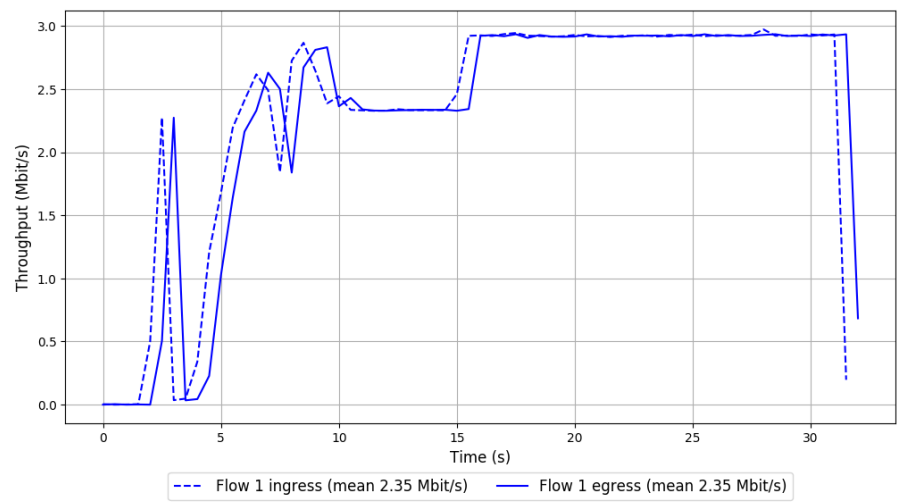
-- Flow 1:

Average throughput: 2.35 Mbit/s

95th percentile per-packet one-way delay: 85.740 ms

Loss rate: 0.07%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-07-17 09:43:18

End at: 2018-07-17 09:43:48

Local clock offset: 4.434 ms

Remote clock offset: 0.951 ms

Below is generated by plot.py at 2018-07-17 13:46:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.10 Mbit/s

95th percentile per-packet one-way delay: 85.305 ms

Loss rate: 0.07%

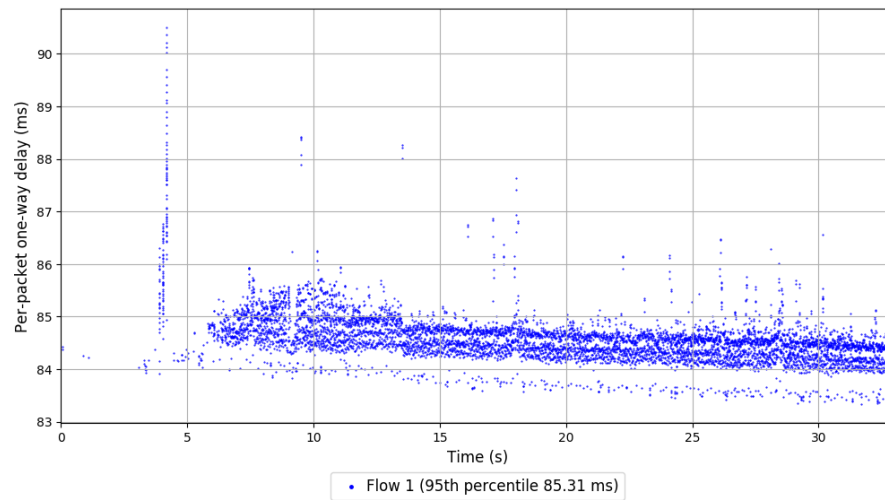
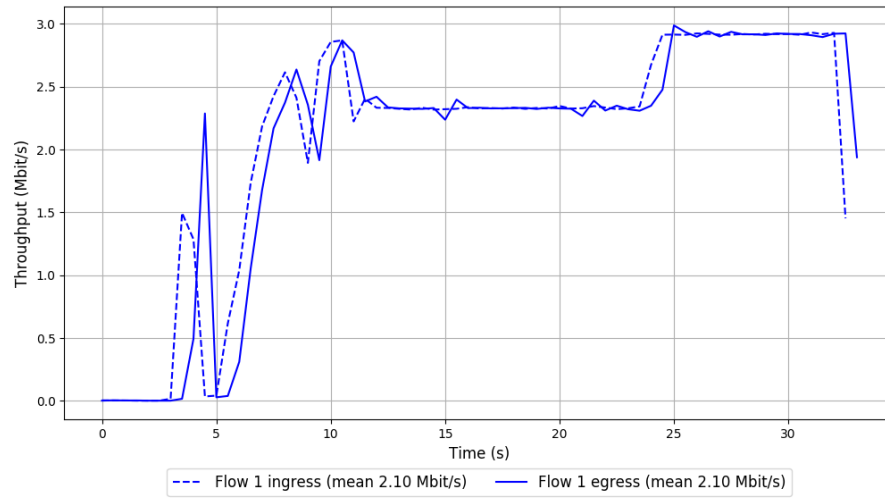
-- Flow 1:

Average throughput: 2.10 Mbit/s

95th percentile per-packet one-way delay: 85.305 ms

Loss rate: 0.07%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-07-17 10:11:11

End at: 2018-07-17 10:11:41

Local clock offset: -6.048 ms

Remote clock offset: 1.244 ms

Below is generated by plot.py at 2018-07-17 13:46:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.94 Mbit/s

95th percentile per-packet one-way delay: 101.454 ms

Loss rate: 0.06%

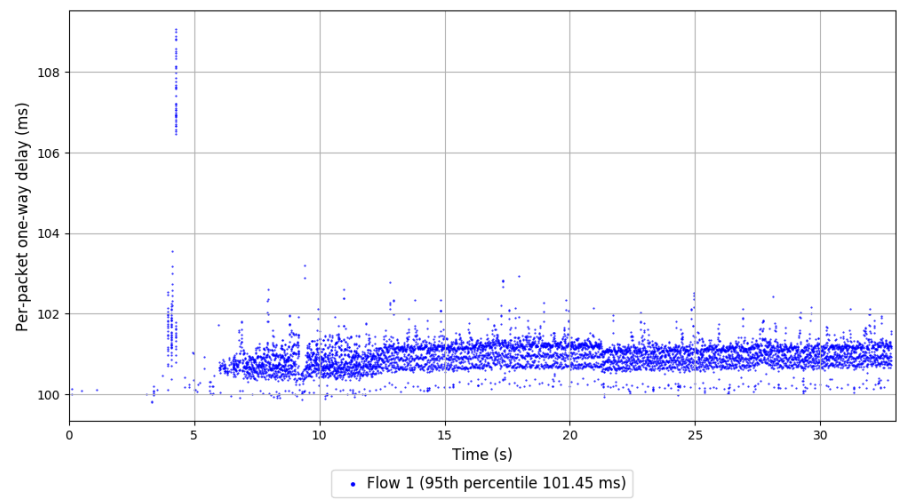
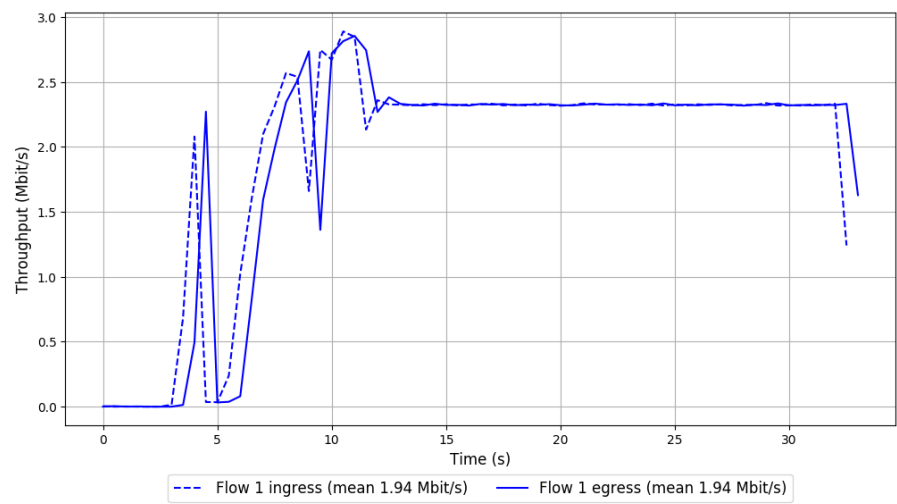
-- Flow 1:

Average throughput: 1.94 Mbit/s

95th percentile per-packet one-way delay: 101.454 ms

Loss rate: 0.06%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-07-17 10:37:06

End at: 2018-07-17 10:37:36

Local clock offset: -0.112 ms

Remote clock offset: 1.191 ms

Below is generated by plot.py at 2018-07-17 13:46:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.96 Mbit/s

95th percentile per-packet one-way delay: 86.312 ms

Loss rate: 0.00%

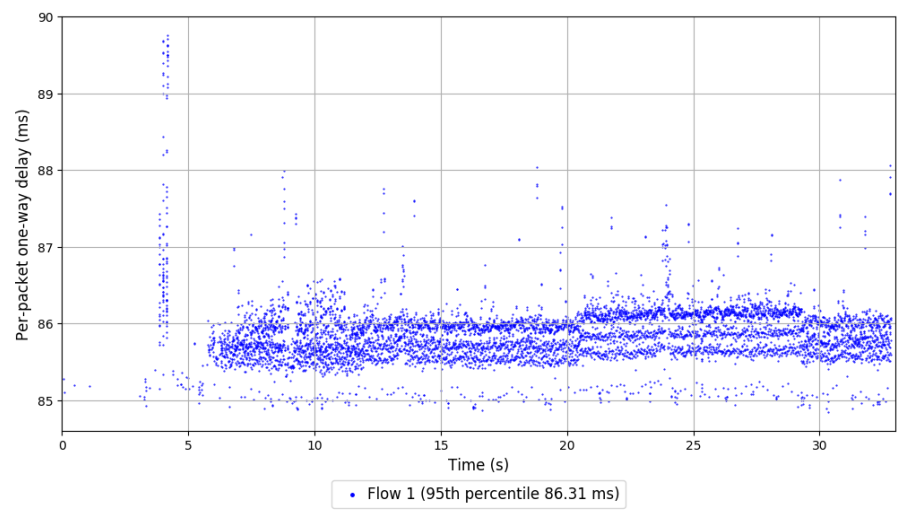
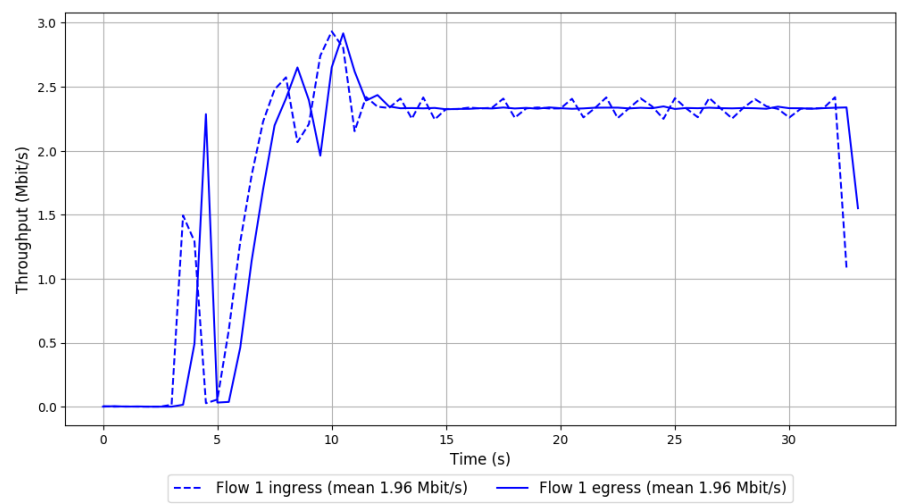
-- Flow 1:

Average throughput: 1.96 Mbit/s

95th percentile per-packet one-way delay: 86.312 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-07-17 11:02:49

End at: 2018-07-17 11:03:19

Local clock offset: -9.514 ms

Remote clock offset: 1.014 ms

Below is generated by plot.py at 2018-07-17 13:46:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 86.034 ms

Loss rate: 0.08%

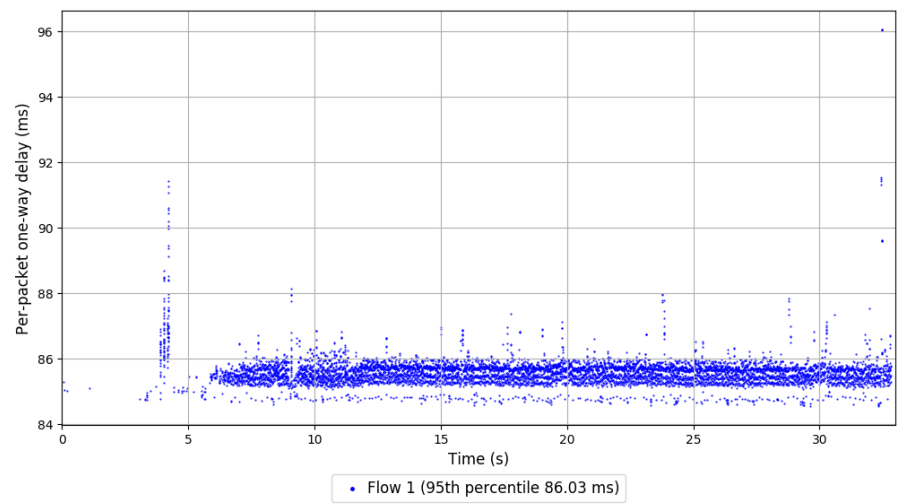
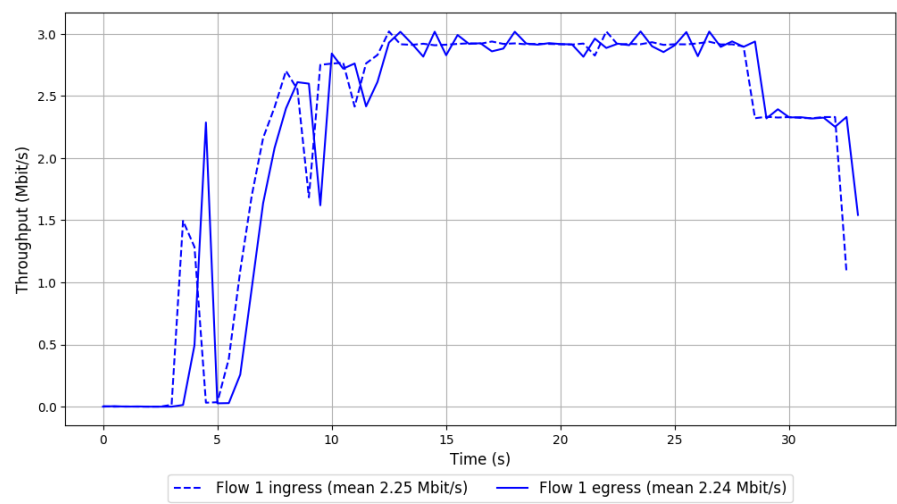
-- Flow 1:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 86.034 ms

Loss rate: 0.08%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-07-17 11:30:52

End at: 2018-07-17 11:31:22

Local clock offset: -6.127 ms

Remote clock offset: 0.756 ms

Below is generated by plot.py at 2018-07-17 13:46:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 86.901 ms

Loss rate: 0.01%

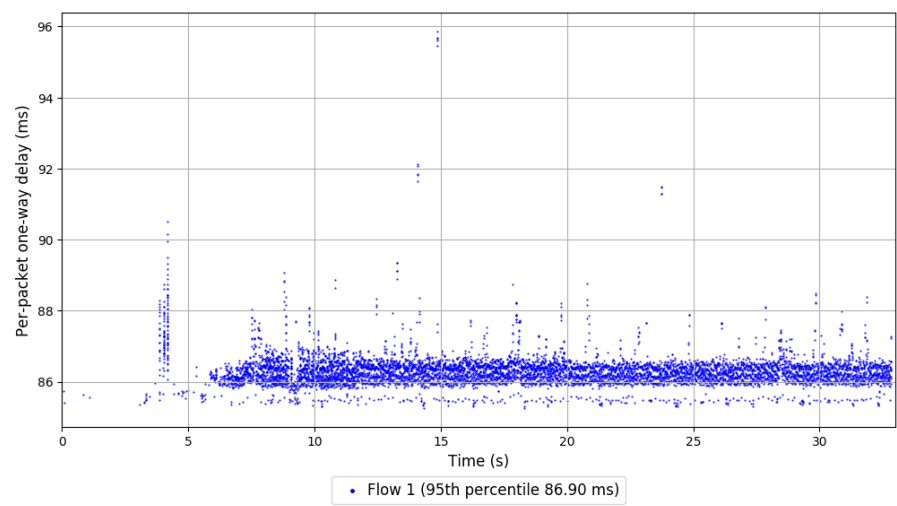
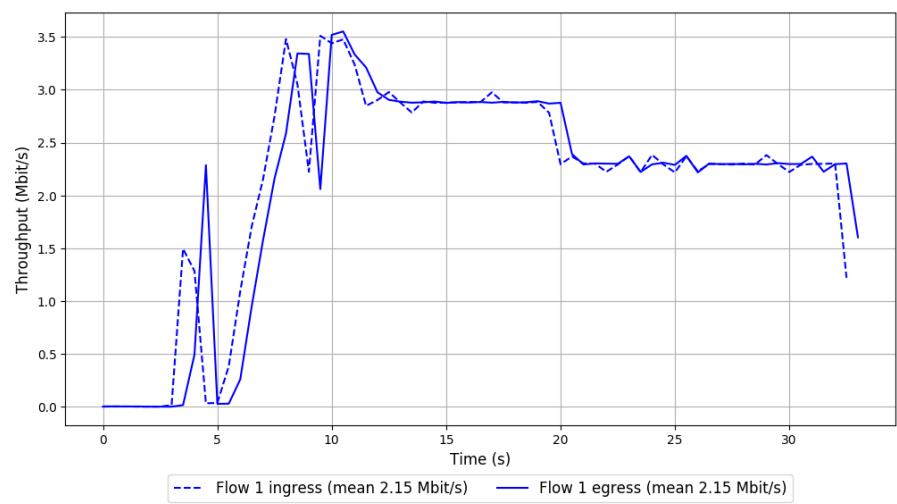
-- Flow 1:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 86.901 ms

Loss rate: 0.01%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-07-17 12:03:14

End at: 2018-07-17 12:03:45

Local clock offset: 2.75 ms

Remote clock offset: 0.519 ms

Below is generated by plot.py at 2018-07-17 13:46:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.07 Mbit/s

95th percentile per-packet one-way delay: 86.907 ms

Loss rate: 0.04%

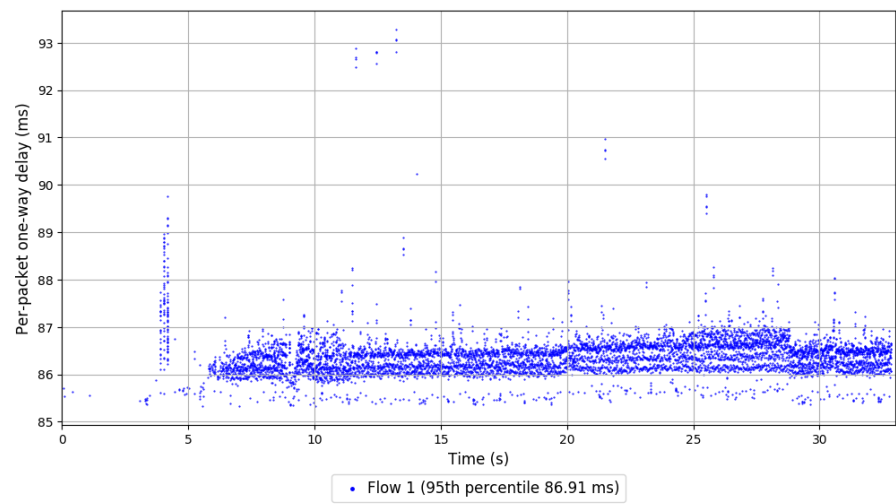
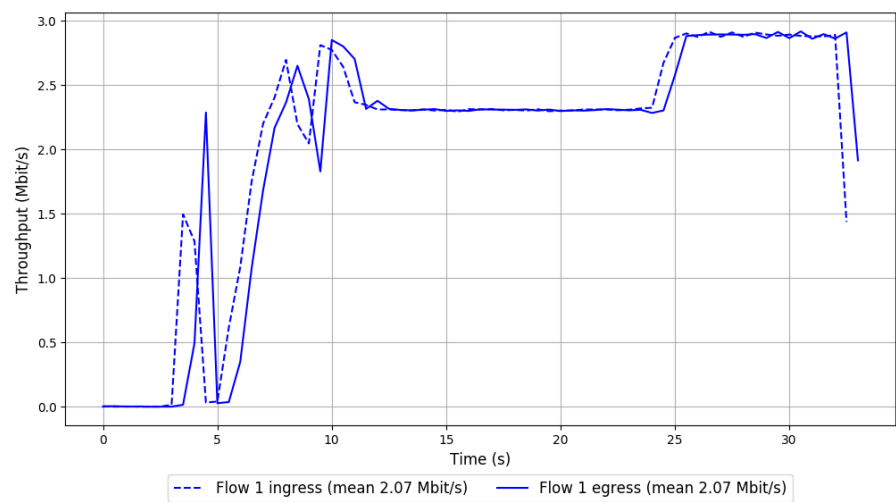
-- Flow 1:

Average throughput: 2.07 Mbit/s

95th percentile per-packet one-way delay: 86.907 ms

Loss rate: 0.04%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-07-17 12:34:25

End at: 2018-07-17 12:34:55

Local clock offset: 4.744 ms

Remote clock offset: 0.396 ms

Below is generated by plot.py at 2018-07-17 13:46:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.91 Mbit/s

95th percentile per-packet one-way delay: 101.278 ms

Loss rate: 0.00%

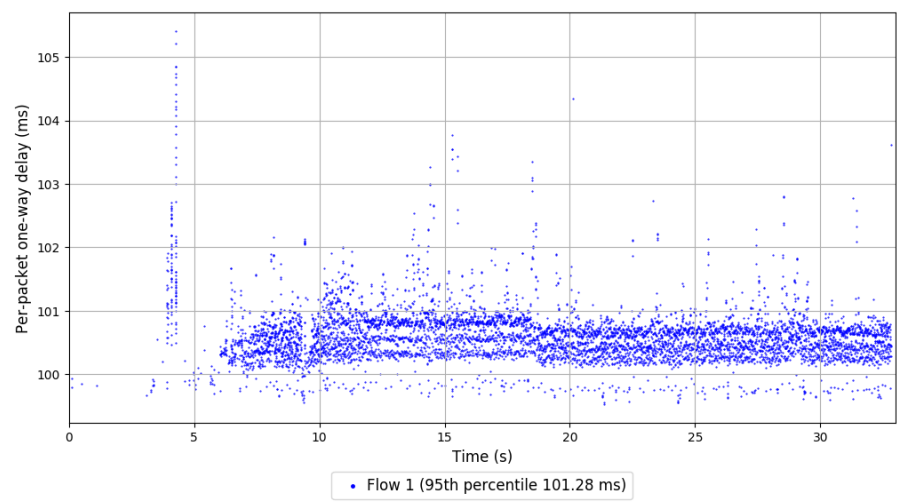
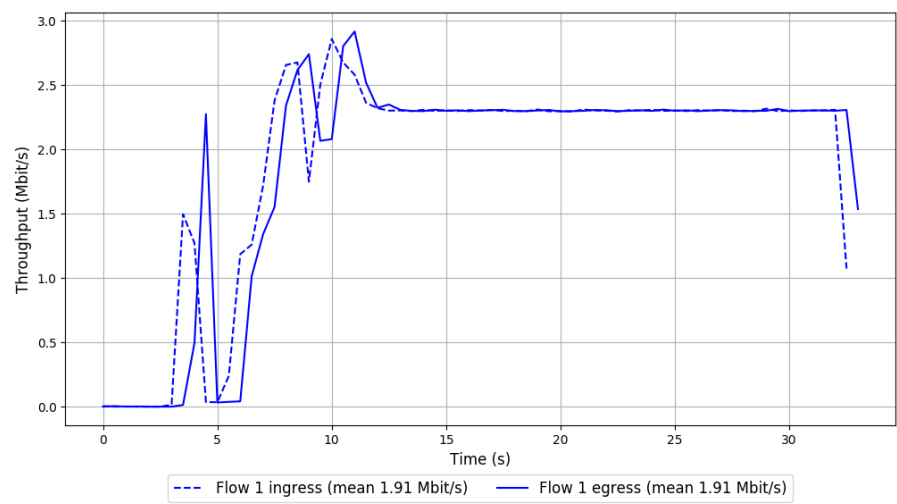
-- Flow 1:

Average throughput: 1.91 Mbit/s

95th percentile per-packet one-way delay: 101.278 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-07-17 13:04:31

End at: 2018-07-17 13:05:01

Local clock offset: 7.354 ms

Remote clock offset: 0.359 ms

Below is generated by plot.py at 2018-07-17 13:46:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.93 Mbit/s

95th percentile per-packet one-way delay: 101.286 ms

Loss rate: 0.08%

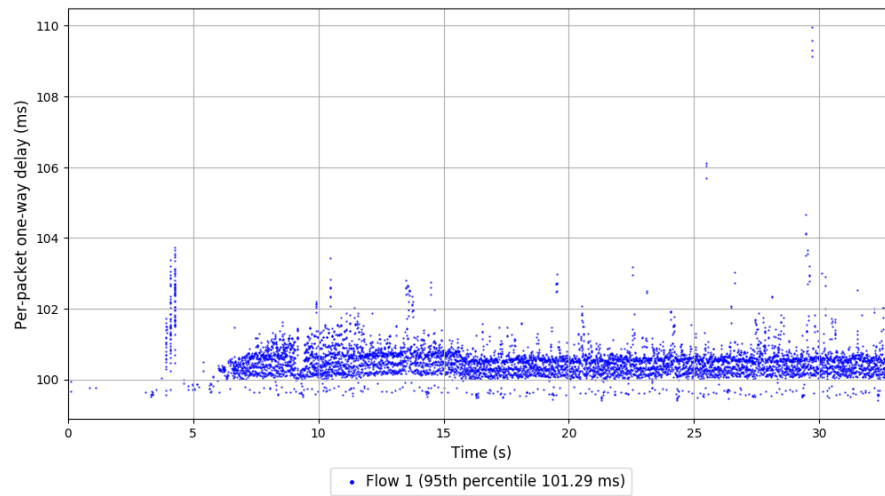
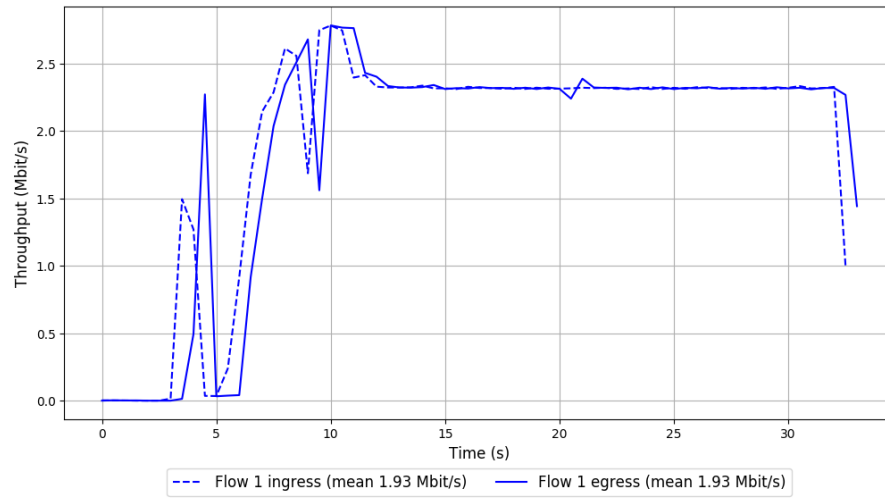
-- Flow 1:

Average throughput: 1.93 Mbit/s

95th percentile per-packet one-way delay: 101.286 ms

Loss rate: 0.08%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-07-17 13:31:45

End at: 2018-07-17 13:32:15

Local clock offset: 3.38 ms

Remote clock offset: -0.007 ms

Below is generated by plot.py at 2018-07-17 13:46:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.02 Mbit/s

95th percentile per-packet one-way delay: 102.353 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 2.02 Mbit/s

95th percentile per-packet one-way delay: 102.353 ms

Loss rate: 0.09%

Run 10: Report of WebRTC media — Data Link

