

Pantheon Report

Generated at 2018-08-01 04:10:17 (UTC).

Data path: AWS California 2 Ethernet (*local*) → Mexico Ethernet (*remote*).

Repeated the test of 17 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

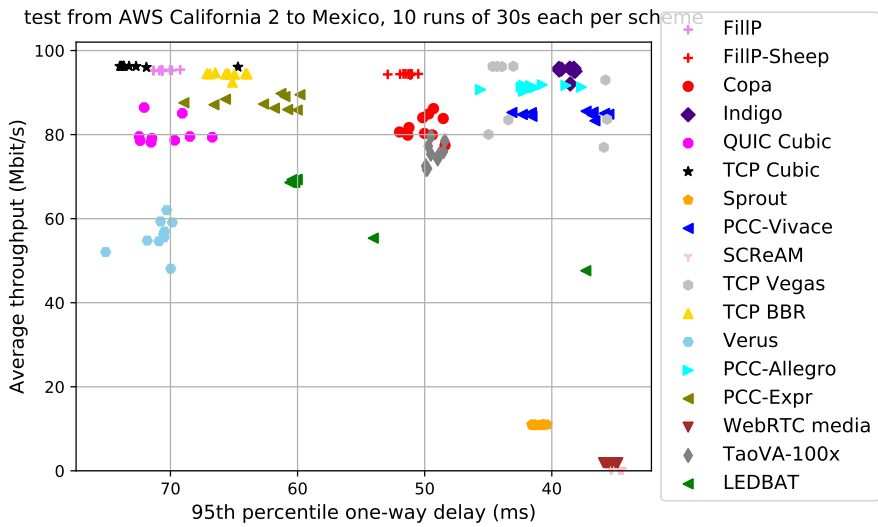
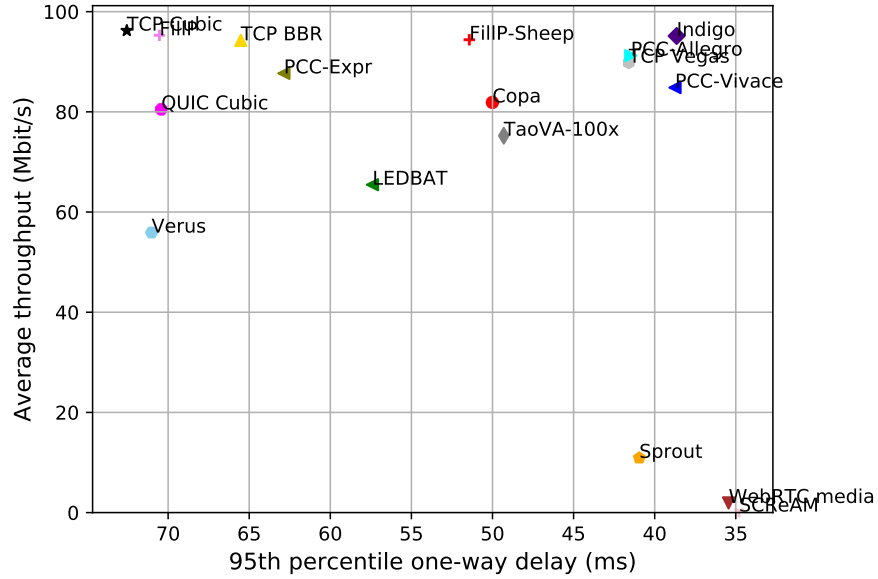
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

Git summary:

```
branch: master @ 640164b5b17c7c6561fff57729b3b5935d8596ce
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-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
```

test from AWS California 2 to Mexico, 10 runs of 30s each per scheme
(mean of all runs by scheme)



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	94.28	65.52	4.00
Copa	10	81.88	50.01	0.86
TCP Cubic	10	96.22	72.55	0.41
FillP	10	95.29	70.54	8.43
FillP-Sheep	10	94.39	51.43	1.01
Indigo	10	95.14	38.65	0.01
LEDBAT	10	65.45	57.40	0.01
PCC-Allegro	10	91.23	41.47	0.75
PCC-Expr	10	87.68	62.86	1.12
QUIC Cubic	9	80.50	70.42	1.61
SCReAM	10	0.21	34.80	0.00
Sprout	10	10.93	40.95	0.00
TaoVA-100x	10	75.24	49.30	0.02
TCP Vegas	10	89.82	41.60	0.35
Verus	10	55.90	71.02	31.79
PCC-Vivace	10	84.84	38.75	0.03
WebRTC media	10	1.93	35.44	0.00

Run 1: Statistics of TCP BBR

Start at: 2018-08-01 00:16:26

End at: 2018-08-01 00:16:56

Local clock offset: 8.523 ms

Remote clock offset: 1.524 ms

Below is generated by plot.py at 2018-08-01 03:48:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.43 Mbit/s

95th percentile per-packet one-way delay: 65.651 ms

Loss rate: 4.02%

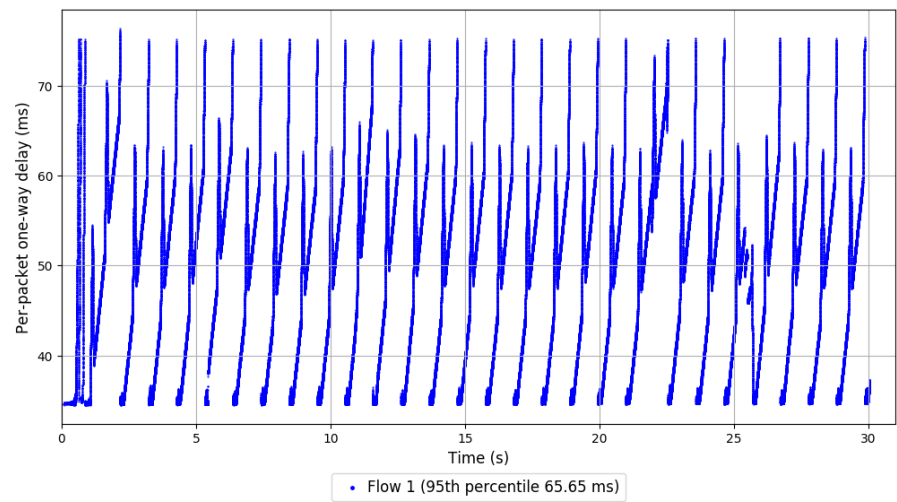
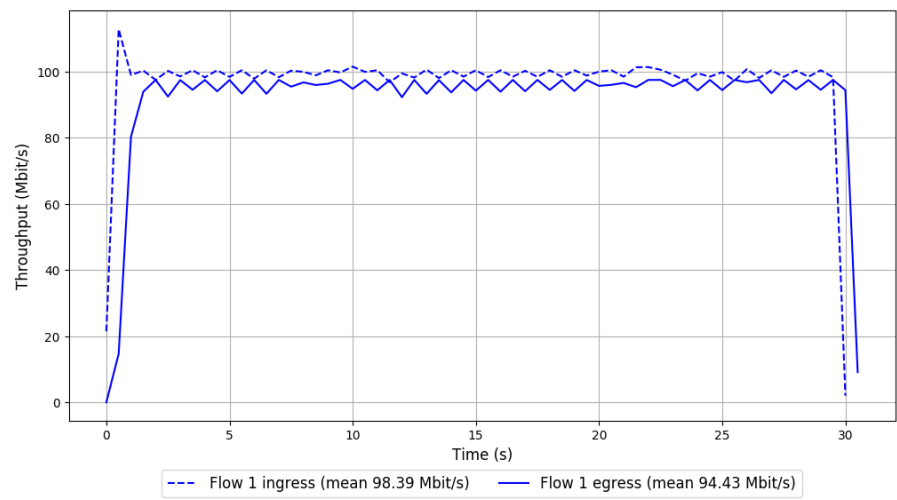
-- Flow 1:

Average throughput: 94.43 Mbit/s

95th percentile per-packet one-way delay: 65.651 ms

Loss rate: 4.02%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-08-01 00:38:44

End at: 2018-08-01 00:39:14

Local clock offset: 4.205 ms

Remote clock offset: 1.143 ms

Below is generated by plot.py at 2018-08-01 03:48:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.48 Mbit/s

95th percentile per-packet one-way delay: 65.122 ms

Loss rate: 3.87%

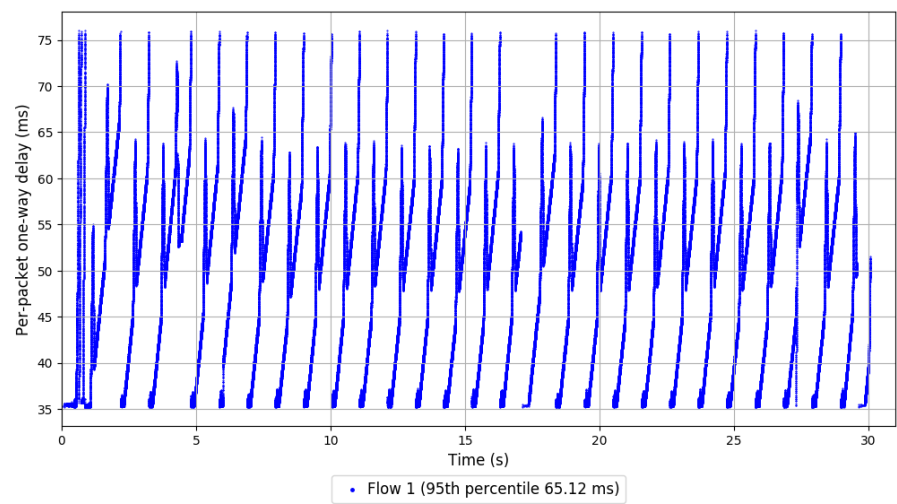
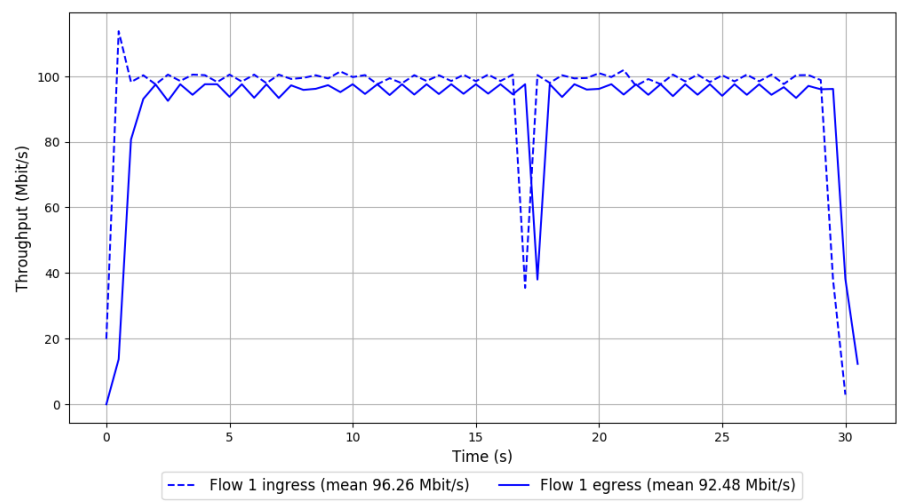
-- Flow 1:

Average throughput: 92.48 Mbit/s

95th percentile per-packet one-way delay: 65.122 ms

Loss rate: 3.87%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-08-01 01:01:02

End at: 2018-08-01 01:01:32

Local clock offset: 2.769 ms

Remote clock offset: 1.024 ms

Below is generated by plot.py at 2018-08-01 03:48:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.41 Mbit/s

95th percentile per-packet one-way delay: 65.443 ms

Loss rate: 4.09%

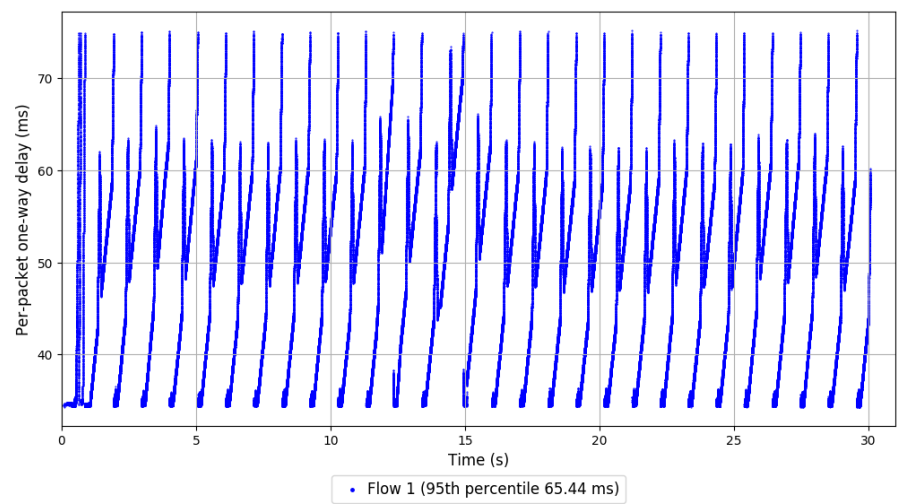
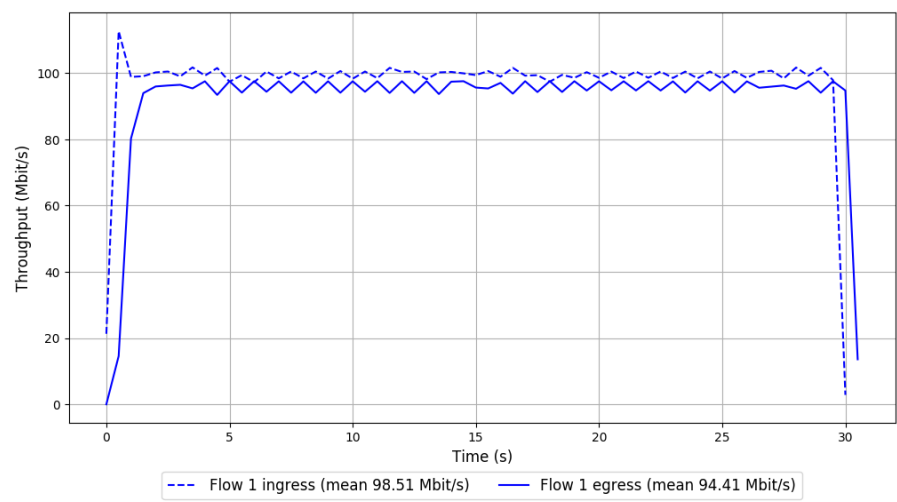
-- Flow 1:

Average throughput: 94.41 Mbit/s

95th percentile per-packet one-way delay: 65.443 ms

Loss rate: 4.09%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-08-01 01:23:25

End at: 2018-08-01 01:23:55

Local clock offset: 2.762 ms

Remote clock offset: 0.044 ms

Below is generated by plot.py at 2018-08-01 03:48:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.73 Mbit/s

95th percentile per-packet one-way delay: 66.471 ms

Loss rate: 3.96%

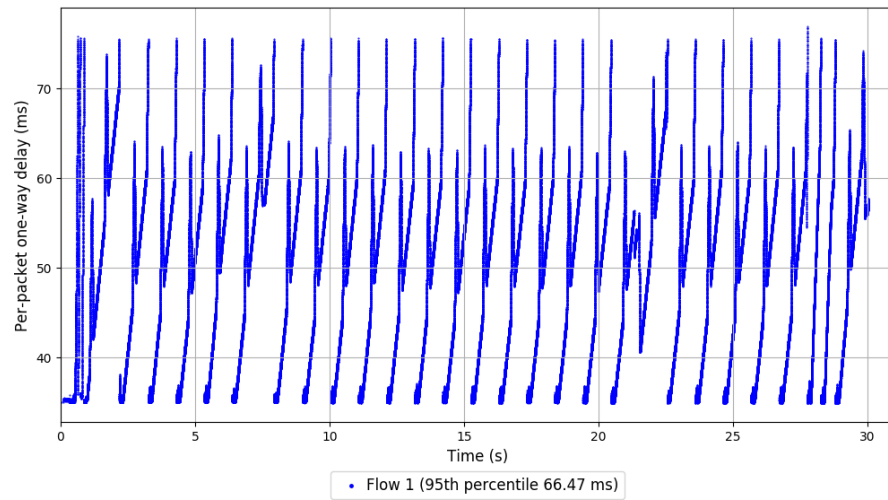
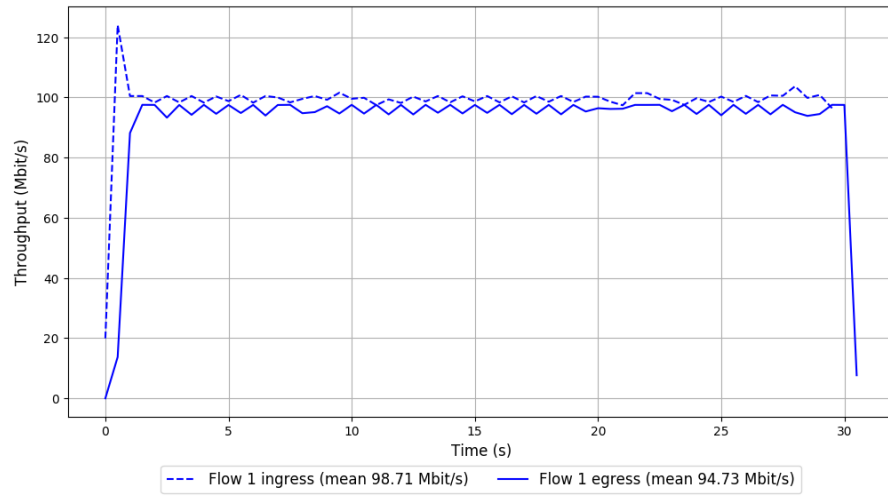
-- Flow 1:

Average throughput: 94.73 Mbit/s

95th percentile per-packet one-way delay: 66.471 ms

Loss rate: 3.96%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-08-01 01:45:44

End at: 2018-08-01 01:46:14

Local clock offset: 1.431 ms

Remote clock offset: 1.276 ms

Below is generated by plot.py at 2018-08-01 03:48:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.44 Mbit/s

95th percentile per-packet one-way delay: 65.476 ms

Loss rate: 4.08%

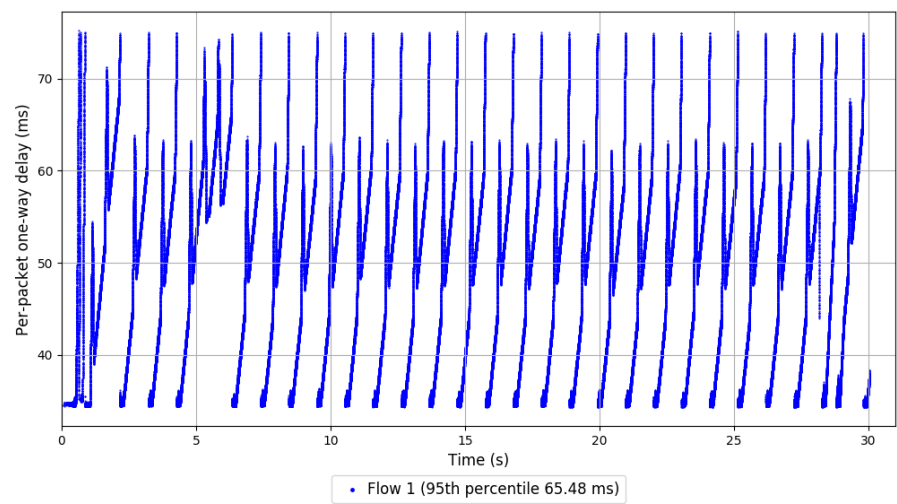
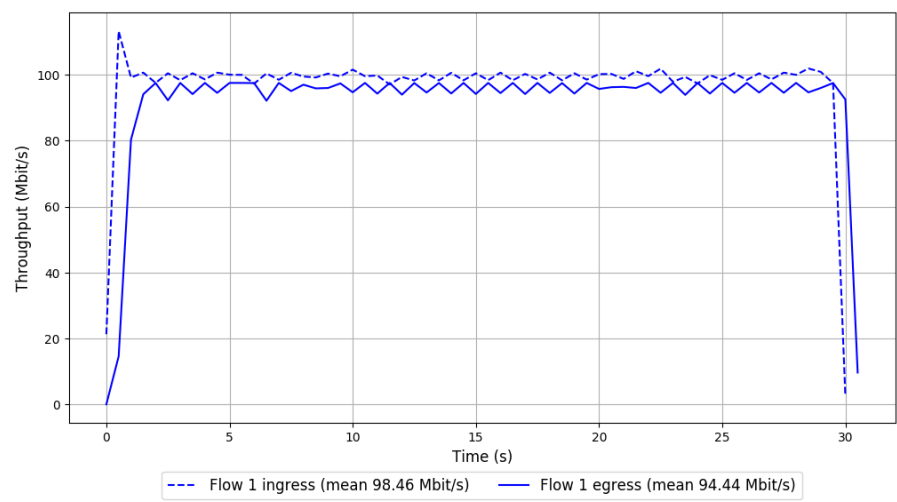
-- Flow 1:

Average throughput: 94.44 Mbit/s

95th percentile per-packet one-way delay: 65.476 ms

Loss rate: 4.08%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-08-01 02:08:03

End at: 2018-08-01 02:08:33

Local clock offset: 0.725 ms

Remote clock offset: 2.955 ms

Below is generated by plot.py at 2018-08-01 03:48:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.43 Mbit/s

95th percentile per-packet one-way delay: 63.974 ms

Loss rate: 3.99%

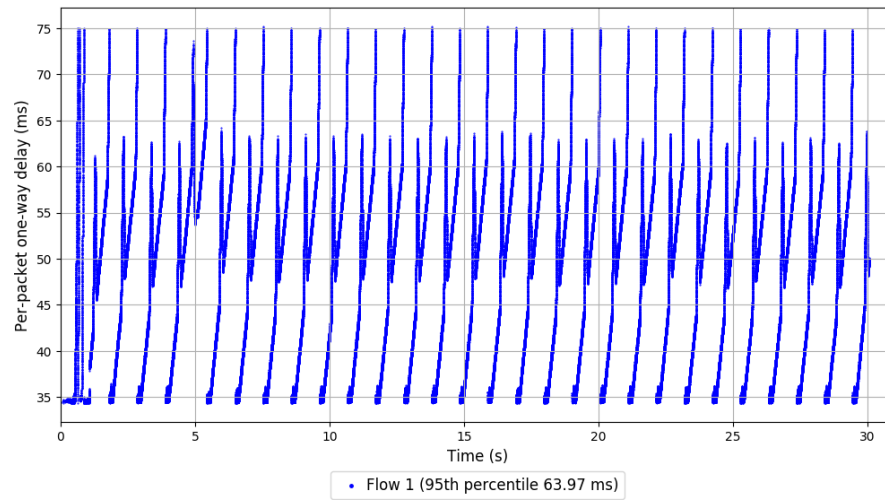
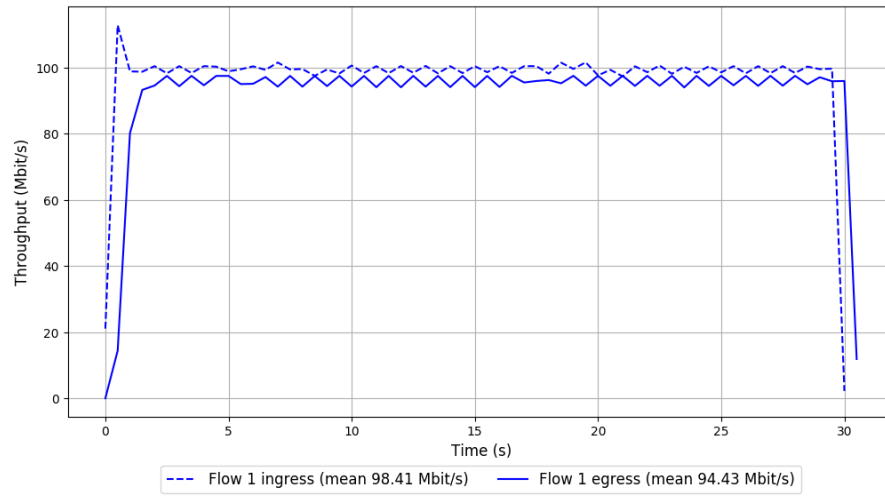
-- Flow 1:

Average throughput: 94.43 Mbit/s

95th percentile per-packet one-way delay: 63.974 ms

Loss rate: 3.99%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-08-01 02:30:23

End at: 2018-08-01 02:30:53

Local clock offset: 0.408 ms

Remote clock offset: 2.01 ms

Below is generated by plot.py at 2018-08-01 03:48:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.39 Mbit/s

95th percentile per-packet one-way delay: 64.962 ms

Loss rate: 4.07%

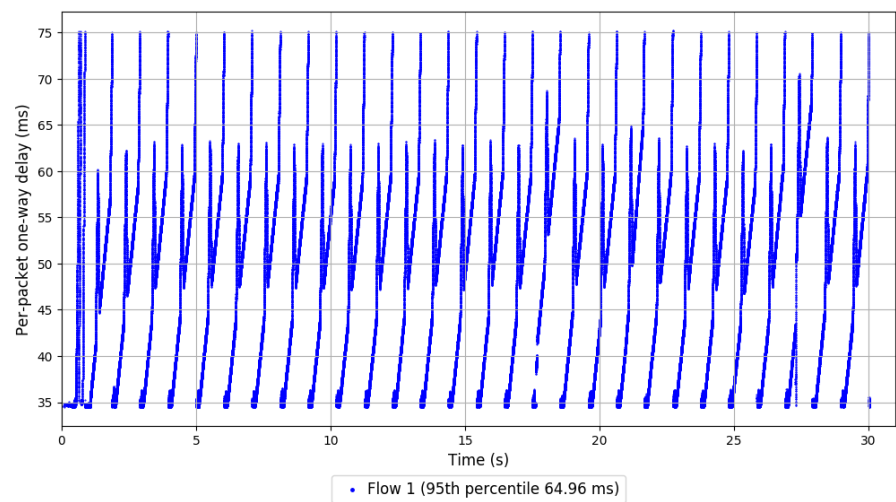
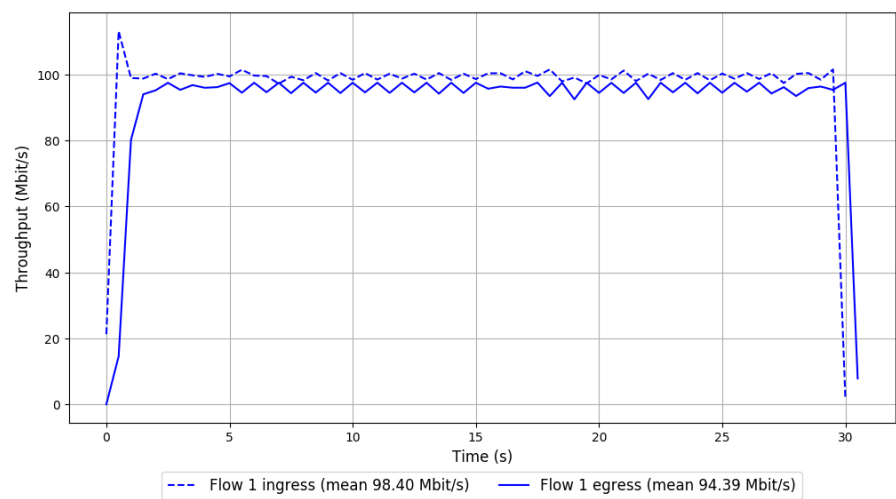
-- Flow 1:

Average throughput: 94.39 Mbit/s

95th percentile per-packet one-way delay: 64.962 ms

Loss rate: 4.07%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-08-01 02:52:41

End at: 2018-08-01 02:53:11

Local clock offset: 0.25 ms

Remote clock offset: 1.652 ms

Below is generated by plot.py at 2018-08-01 03:48:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.45 Mbit/s

95th percentile per-packet one-way delay: 66.893 ms

Loss rate: 4.04%

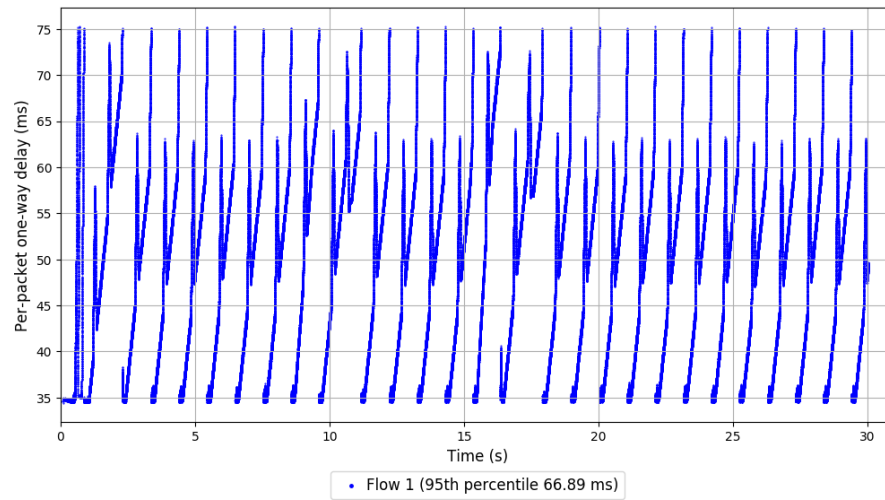
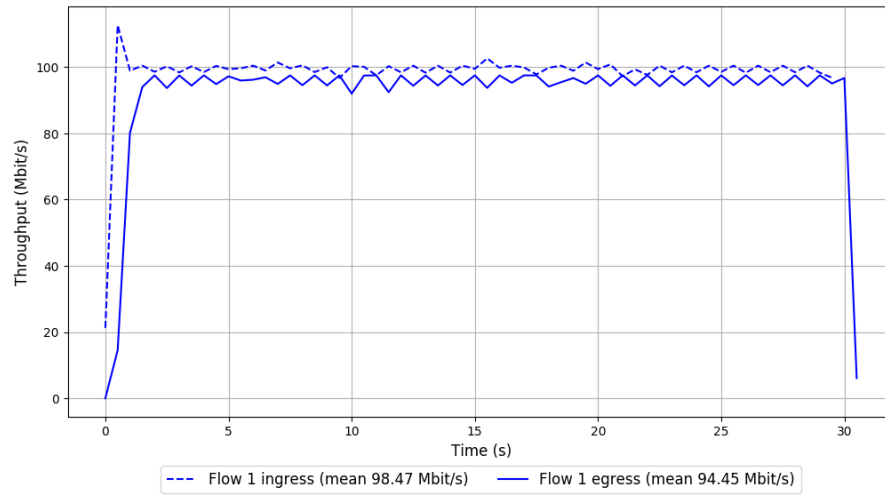
-- Flow 1:

Average throughput: 94.45 Mbit/s

95th percentile per-packet one-way delay: 66.893 ms

Loss rate: 4.04%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-08-01 03:14:58

End at: 2018-08-01 03:15:28

Local clock offset: 0.045 ms

Remote clock offset: 0.629 ms

Below is generated by plot.py at 2018-08-01 03:49:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.51 Mbit/s

95th percentile per-packet one-way delay: 67.124 ms

Loss rate: 3.98%

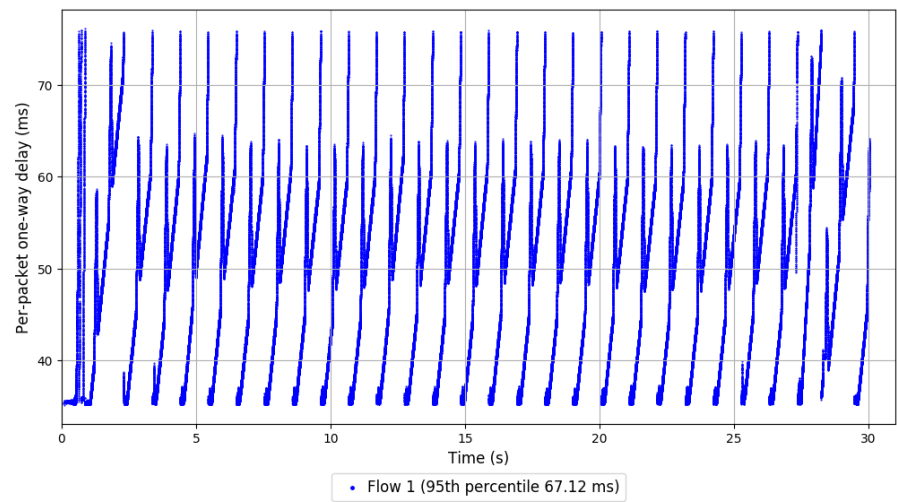
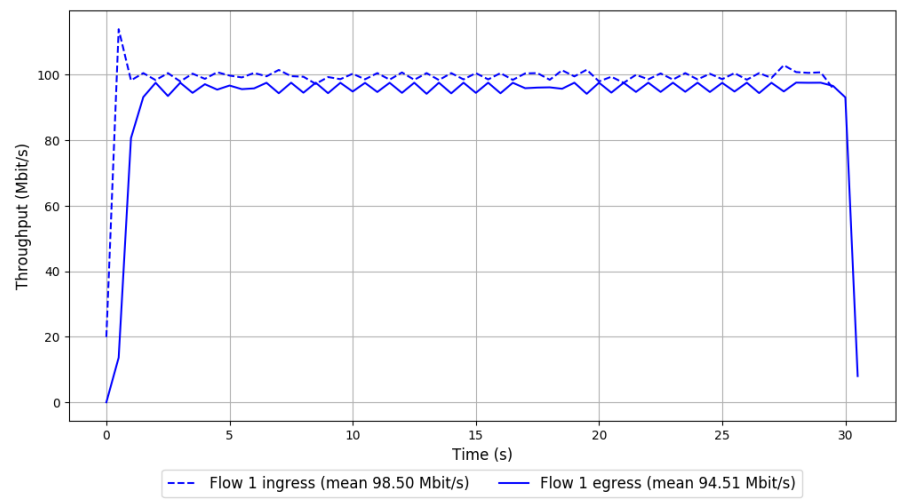
-- Flow 1:

Average throughput: 94.51 Mbit/s

95th percentile per-packet one-way delay: 67.124 ms

Loss rate: 3.98%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-08-01 03:37:16

End at: 2018-08-01 03:37:46

Local clock offset: -2.886 ms

Remote clock offset: 8.619 ms

Below is generated by plot.py at 2018-08-01 03:49:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.51 Mbit/s

95th percentile per-packet one-way delay: 64.081 ms

Loss rate: 3.89%

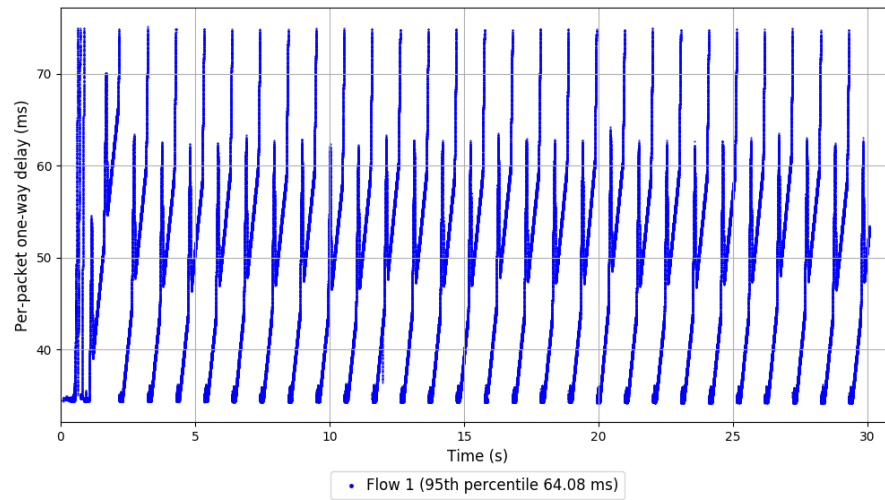
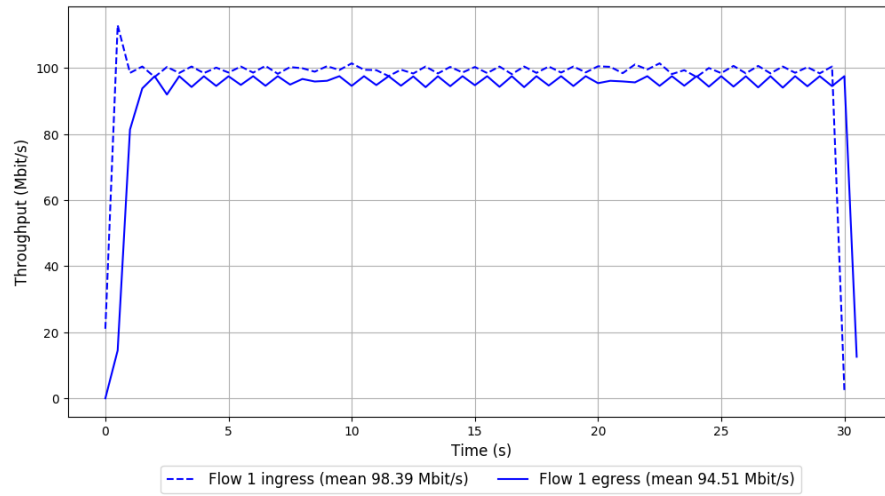
-- Flow 1:

Average throughput: 94.51 Mbit/s

95th percentile per-packet one-way delay: 64.081 ms

Loss rate: 3.89%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2018-08-01 00:08:39

End at: 2018-08-01 00:09:09

Local clock offset: 7.712 ms

Remote clock offset: 2.228 ms

Below is generated by plot.py at 2018-08-01 03:50:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.93 Mbit/s

95th percentile per-packet one-way delay: 49.395 ms

Loss rate: 0.88%

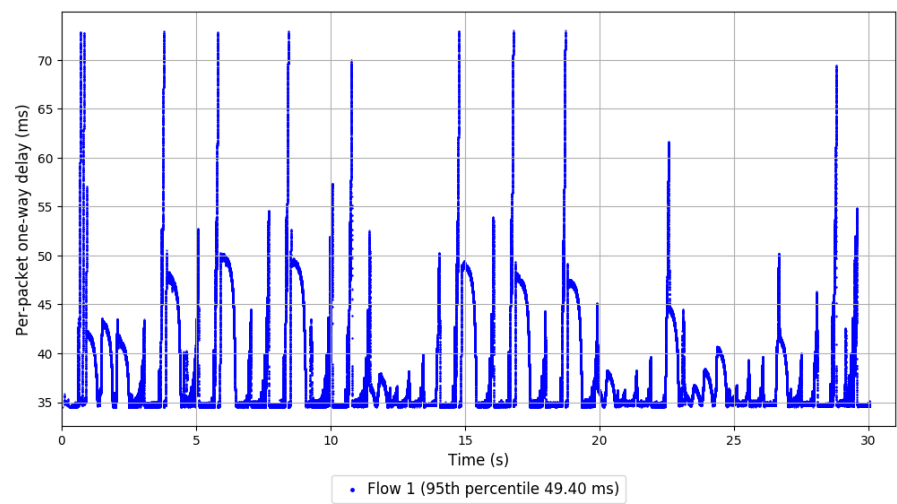
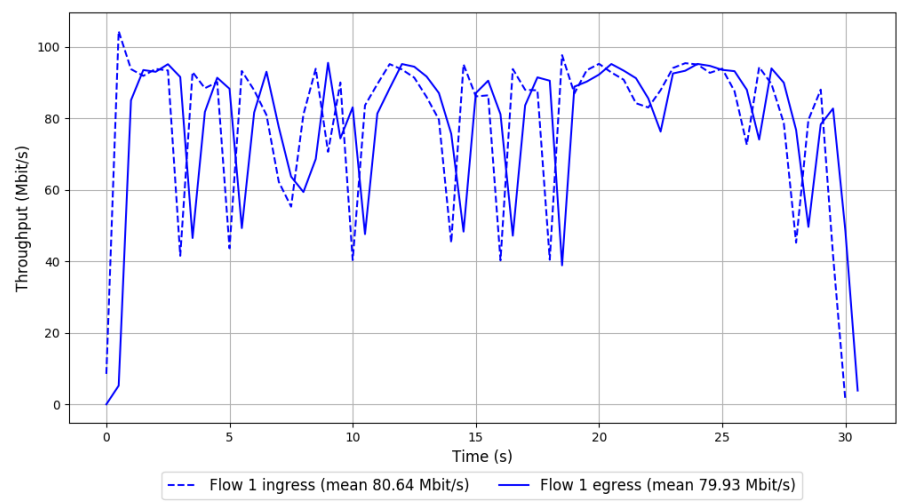
-- Flow 1:

Average throughput: 79.93 Mbit/s

95th percentile per-packet one-way delay: 49.395 ms

Loss rate: 0.88%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-08-01 00:30:55

End at: 2018-08-01 00:31:25

Local clock offset: 5.268 ms

Remote clock offset: 0.454 ms

Below is generated by plot.py at 2018-08-01 03:50:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.92 Mbit/s

95th percentile per-packet one-way delay: 49.693 ms

Loss rate: 1.10%

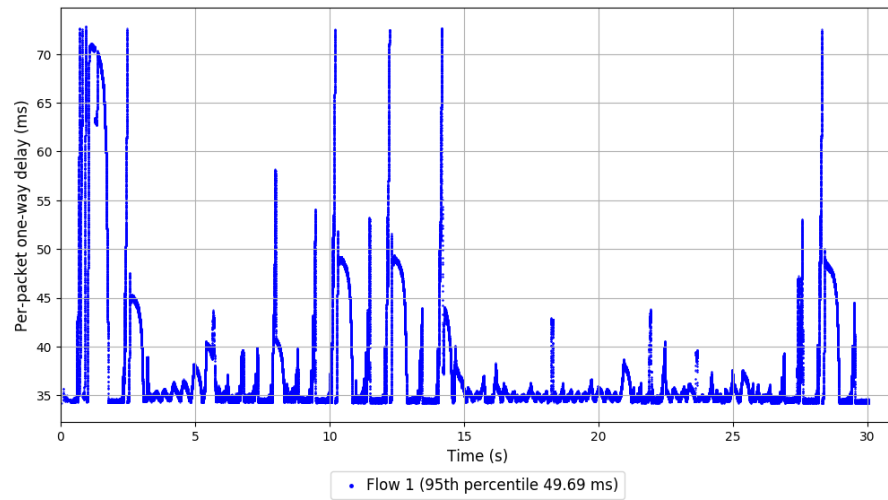
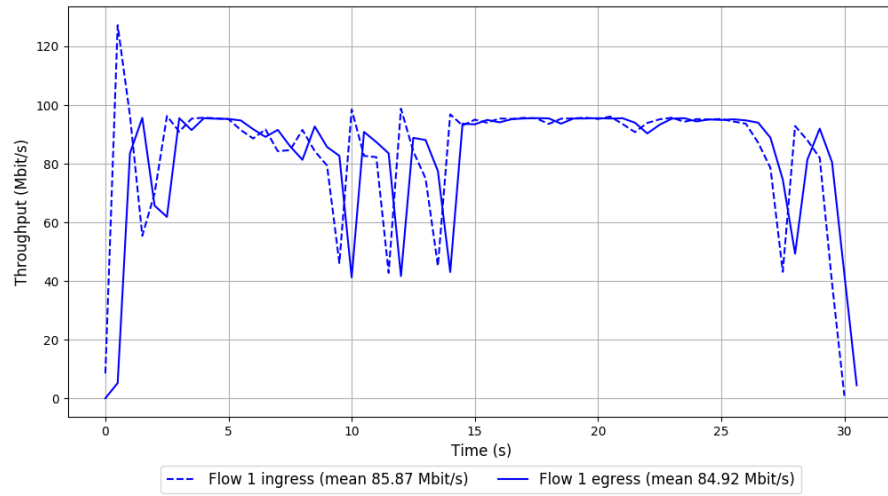
-- Flow 1:

Average throughput: 84.92 Mbit/s

95th percentile per-packet one-way delay: 49.693 ms

Loss rate: 1.10%

Run 2: Report of Copa — Data Link

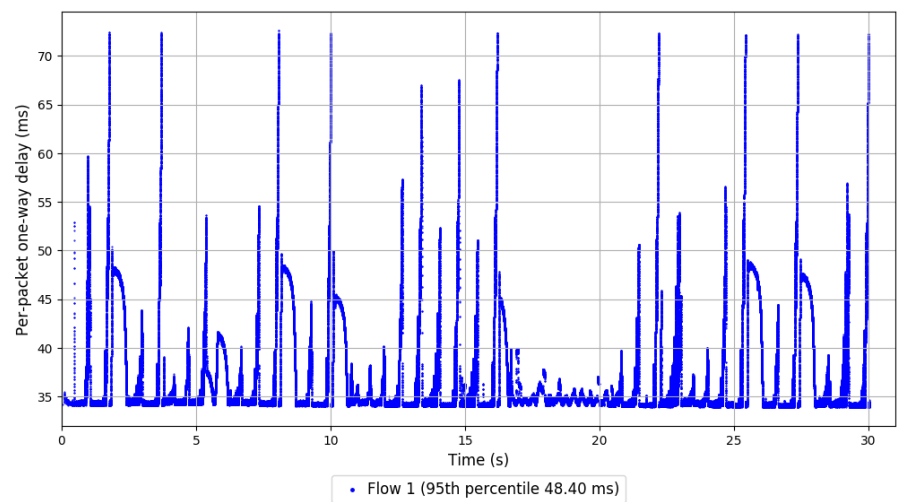
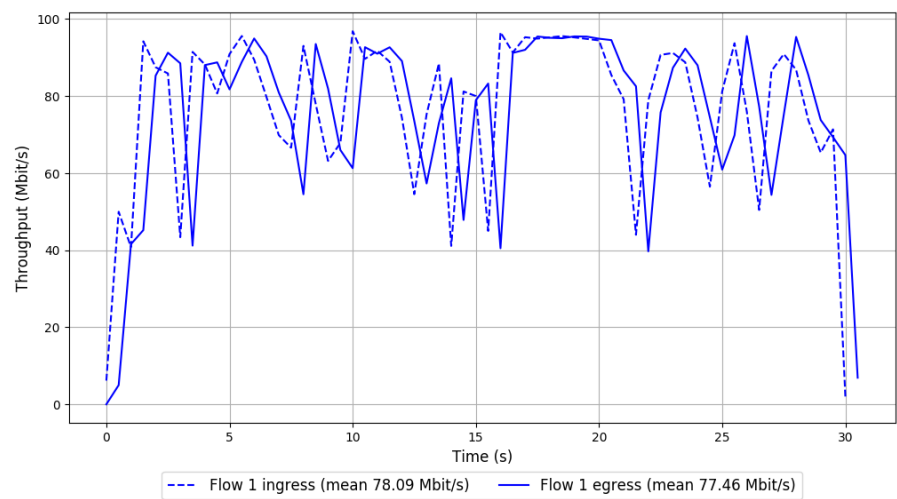


Run 3: Statistics of Copa

Start at: 2018-08-01 00:53:13
End at: 2018-08-01 00:53:43
Local clock offset: 5.044 ms
Remote clock offset: 1.297 ms

Below is generated by plot.py at 2018-08-01 03:50:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 77.46 Mbit/s
95th percentile per-packet one-way delay: 48.397 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 77.46 Mbit/s
95th percentile per-packet one-way delay: 48.397 ms
Loss rate: 0.82%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-08-01 01:15:34

End at: 2018-08-01 01:16:05

Local clock offset: 2.428 ms

Remote clock offset: 0.27 ms

Below is generated by plot.py at 2018-08-01 03:50:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.02 Mbit/s

95th percentile per-packet one-way delay: 50.151 ms

Loss rate: 0.65%

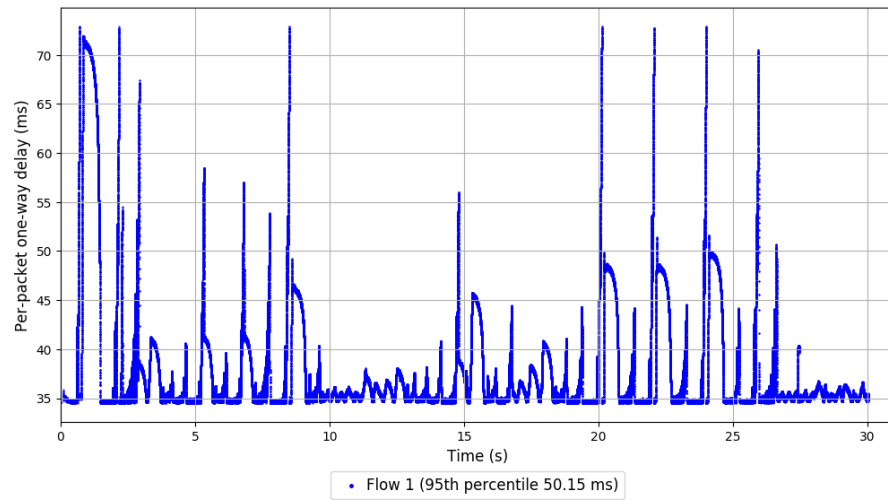
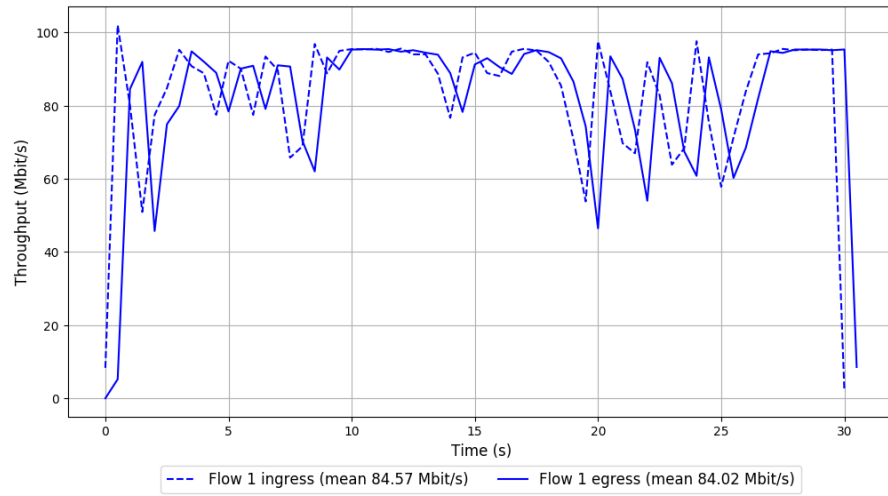
-- Flow 1:

Average throughput: 84.02 Mbit/s

95th percentile per-packet one-way delay: 50.151 ms

Loss rate: 0.65%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-08-01 01:37:55

End at: 2018-08-01 01:38:25

Local clock offset: 1.362 ms

Remote clock offset: 0.101 ms

Below is generated by plot.py at 2018-08-01 03:50:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 80.28 Mbit/s

95th percentile per-packet one-way delay: 50.016 ms

Loss rate: 0.97%

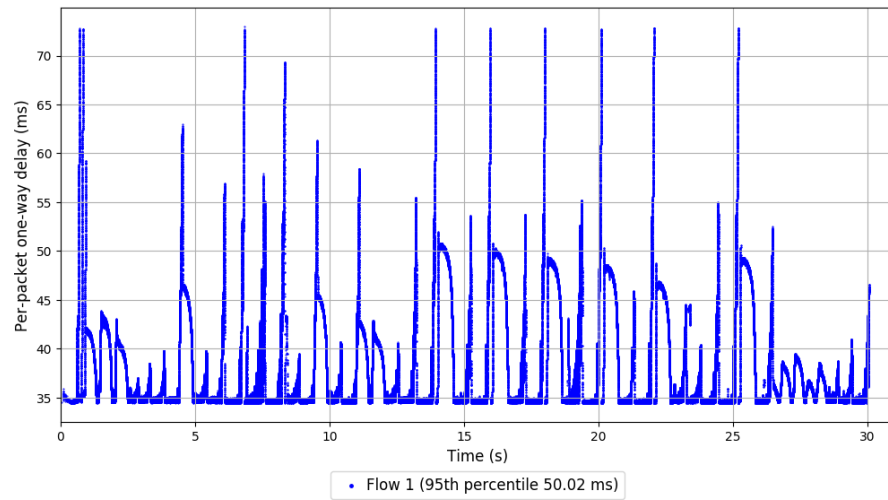
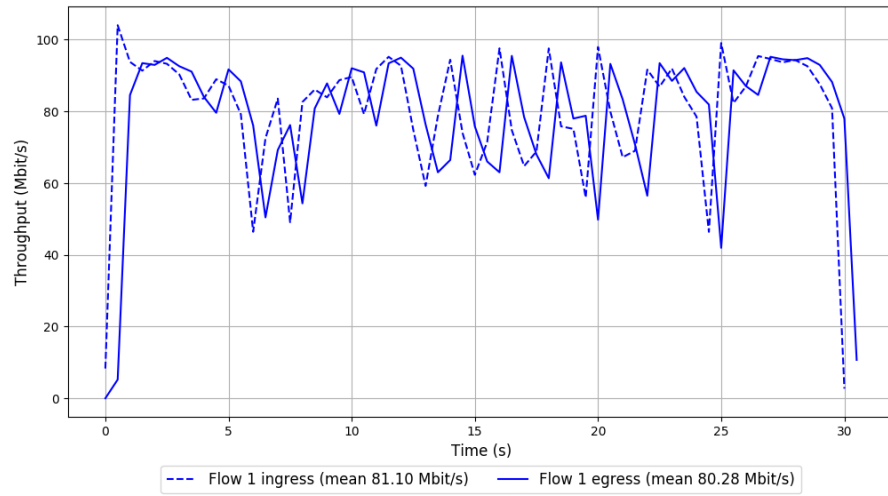
-- Flow 1:

Average throughput: 80.28 Mbit/s

95th percentile per-packet one-way delay: 50.016 ms

Loss rate: 0.97%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-08-01 02:00:13

End at: 2018-08-01 02:00:43

Local clock offset: 0.952 ms

Remote clock offset: 2.819 ms

Below is generated by plot.py at 2018-08-01 03:50:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 81.67 Mbit/s

95th percentile per-packet one-way delay: 51.237 ms

Loss rate: 0.54%

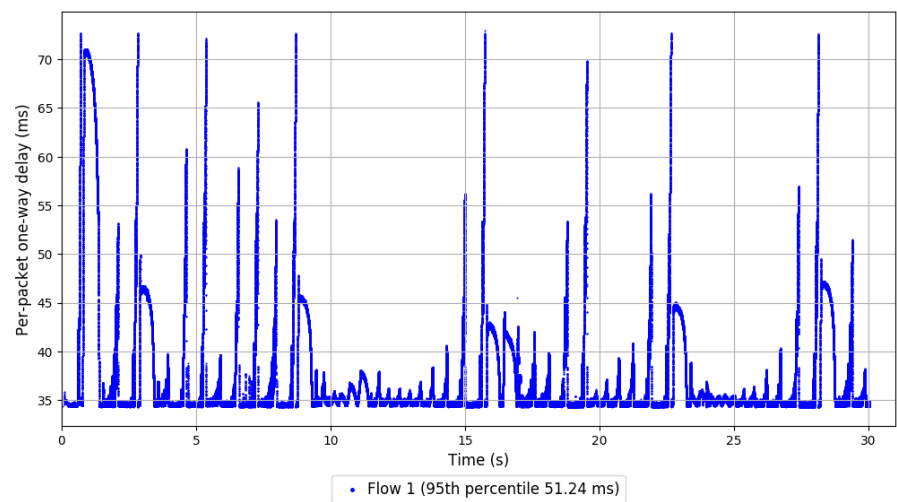
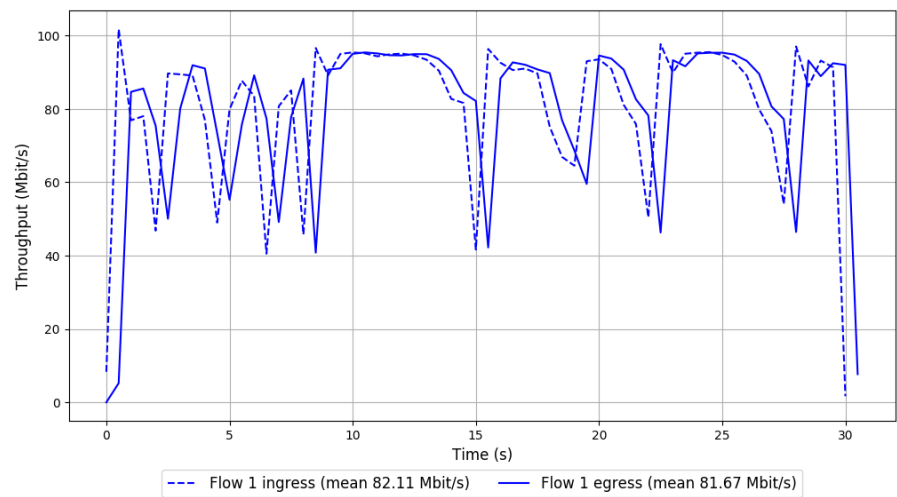
-- Flow 1:

Average throughput: 81.67 Mbit/s

95th percentile per-packet one-way delay: 51.237 ms

Loss rate: 0.54%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-08-01 02:22:34

End at: 2018-08-01 02:23:04

Local clock offset: 0.707 ms

Remote clock offset: 2.383 ms

Below is generated by plot.py at 2018-08-01 03:51:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.87 Mbit/s

95th percentile per-packet one-way delay: 51.332 ms

Loss rate: 1.05%

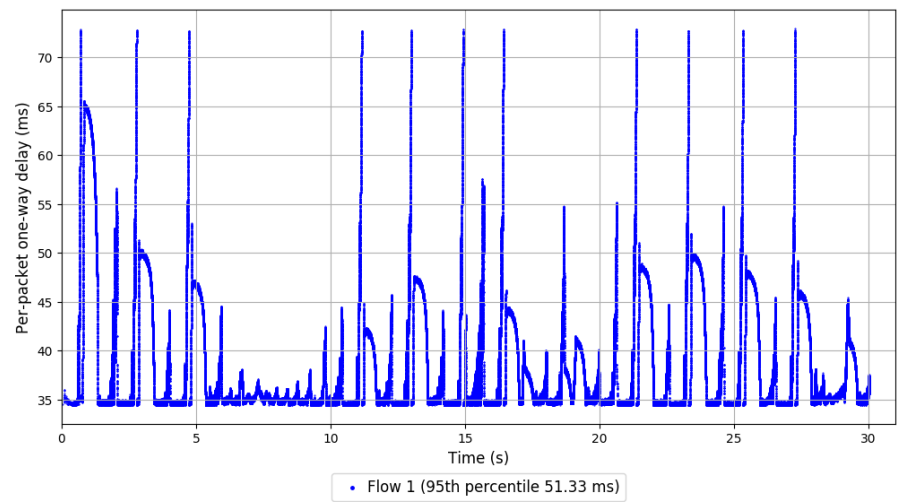
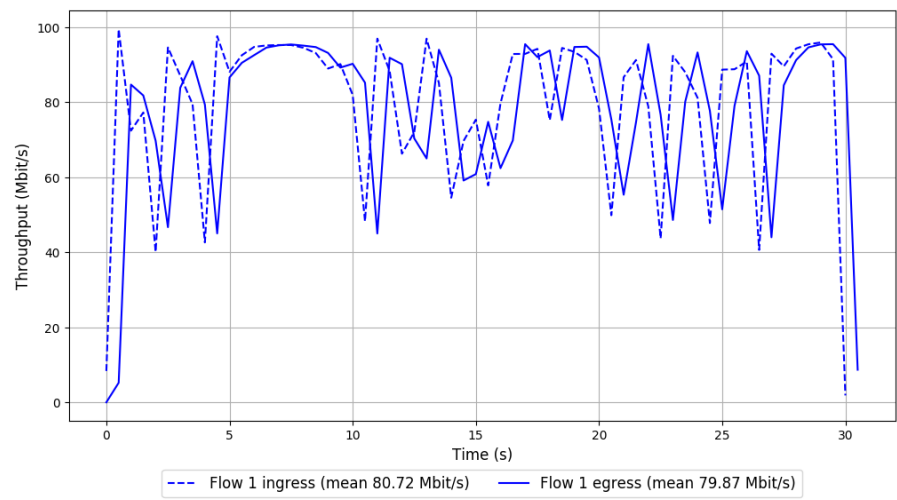
-- Flow 1:

Average throughput: 79.87 Mbit/s

95th percentile per-packet one-way delay: 51.332 ms

Loss rate: 1.05%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-08-01 02:44:54

End at: 2018-08-01 02:45:24

Local clock offset: 0.377 ms

Remote clock offset: 1.827 ms

Below is generated by plot.py at 2018-08-01 03:51:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.83 Mbit/s

95th percentile per-packet one-way delay: 48.541 ms

Loss rate: 0.90%

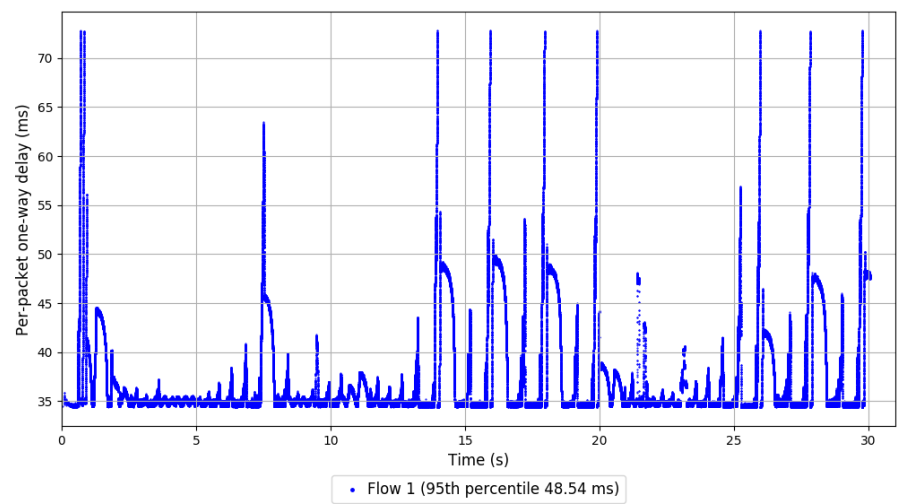
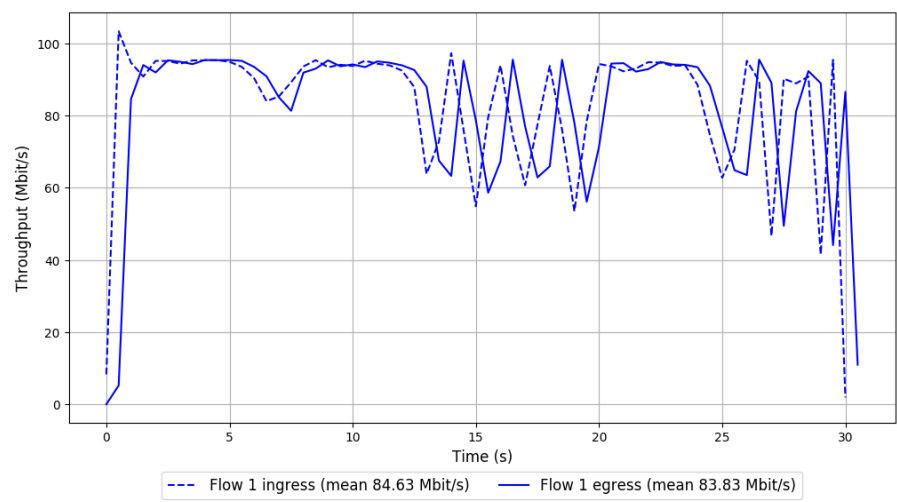
-- Flow 1:

Average throughput: 83.83 Mbit/s

95th percentile per-packet one-way delay: 48.541 ms

Loss rate: 0.90%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-08-01 03:07:08

End at: 2018-08-01 03:07:38

Local clock offset: 0.206 ms

Remote clock offset: 1.027 ms

Below is generated by plot.py at 2018-08-01 03:52:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 80.62 Mbit/s

95th percentile per-packet one-way delay: 51.982 ms

Loss rate: 0.91%

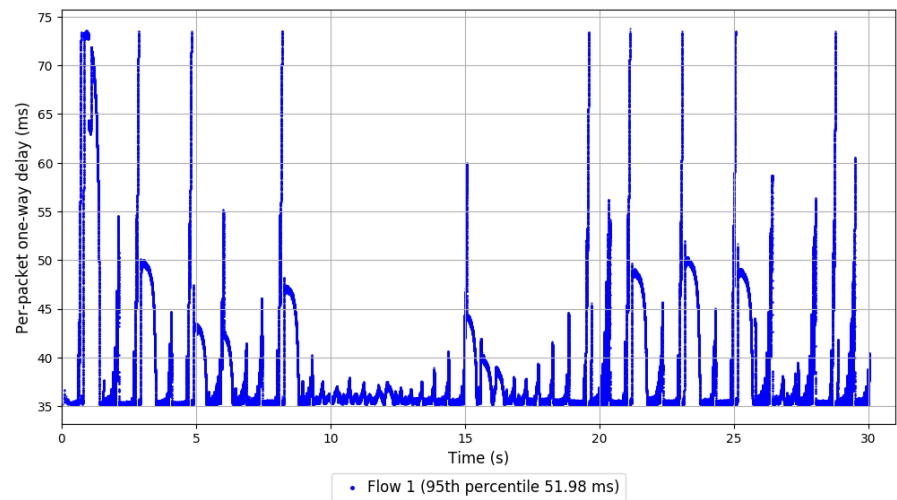
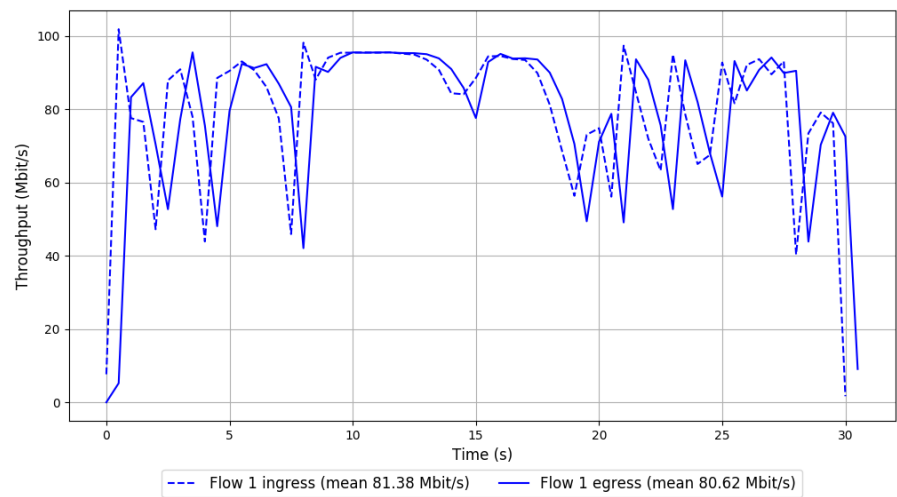
-- Flow 1:

Average throughput: 80.62 Mbit/s

95th percentile per-packet one-way delay: 51.982 ms

Loss rate: 0.91%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-08-01 03:29:26

End at: 2018-08-01 03:29:56

Local clock offset: -1.701 ms

Remote clock offset: 5.382 ms

Below is generated by plot.py at 2018-08-01 03:52:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.19 Mbit/s

95th percentile per-packet one-way delay: 49.308 ms

Loss rate: 0.83%

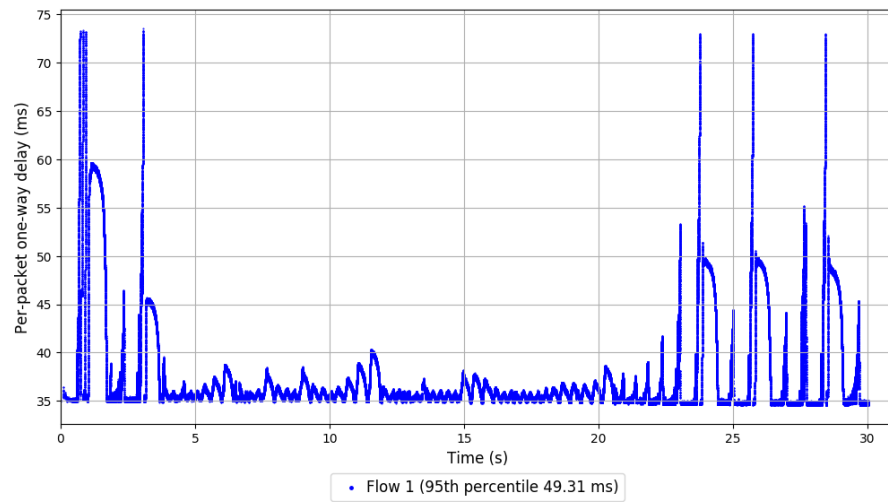
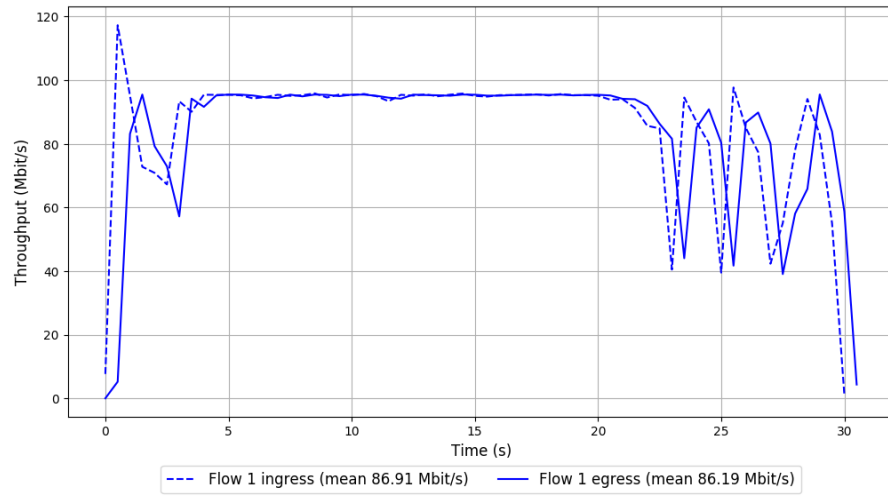
-- Flow 1:

Average throughput: 86.19 Mbit/s

95th percentile per-packet one-way delay: 49.308 ms

Loss rate: 0.83%

Run 10: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-08-01 00:20:24

End at: 2018-08-01 00:20:54

Local clock offset: 9.19 ms

Remote clock offset: 1.238 ms

Below is generated by plot.py at 2018-08-01 03:52:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.08 Mbit/s

95th percentile per-packet one-way delay: 64.688 ms

Loss rate: 0.08%

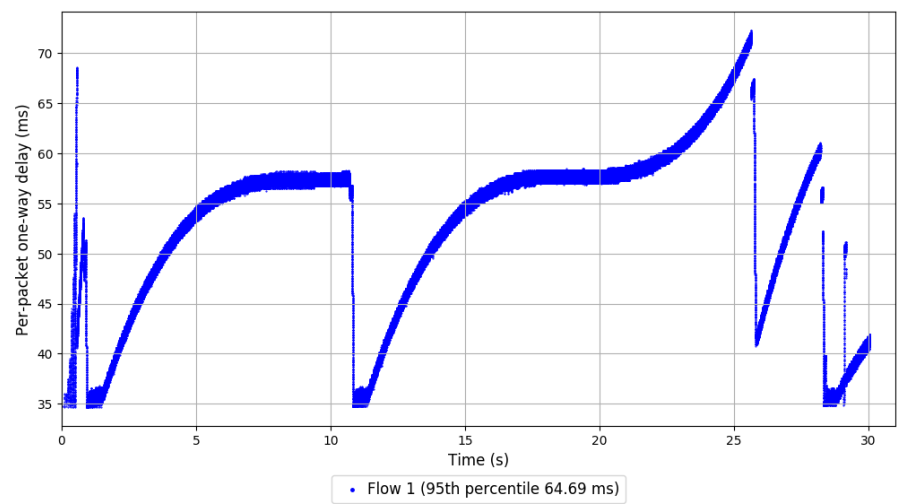
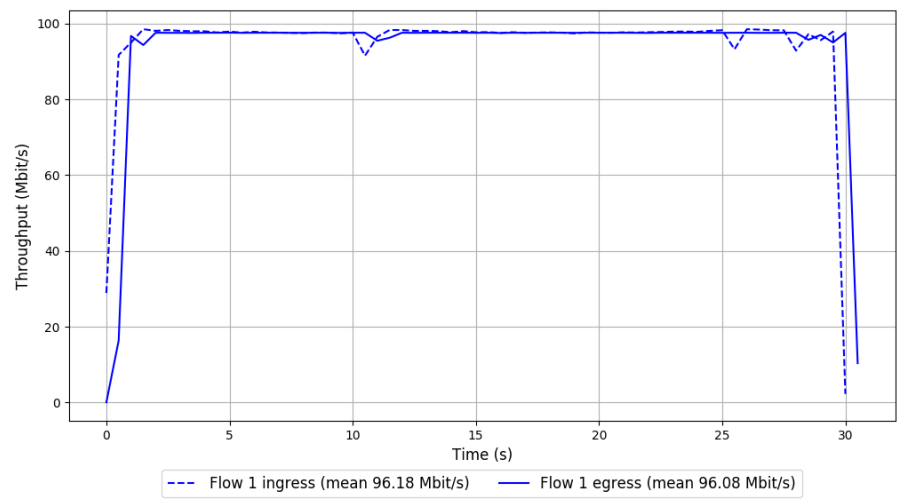
-- Flow 1:

Average throughput: 96.08 Mbit/s

95th percentile per-packet one-way delay: 64.688 ms

Loss rate: 0.08%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-08-01 00:42:43

End at: 2018-08-01 00:43:13

Local clock offset: 4.243 ms

Remote clock offset: 1.329 ms

Below is generated by plot.py at 2018-08-01 03:52:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.27 Mbit/s

95th percentile per-packet one-way delay: 73.254 ms

Loss rate: 0.17%

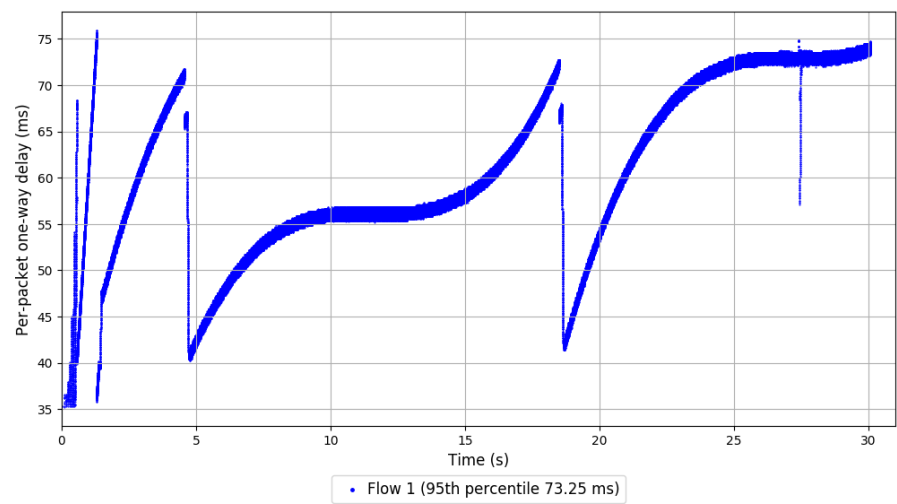
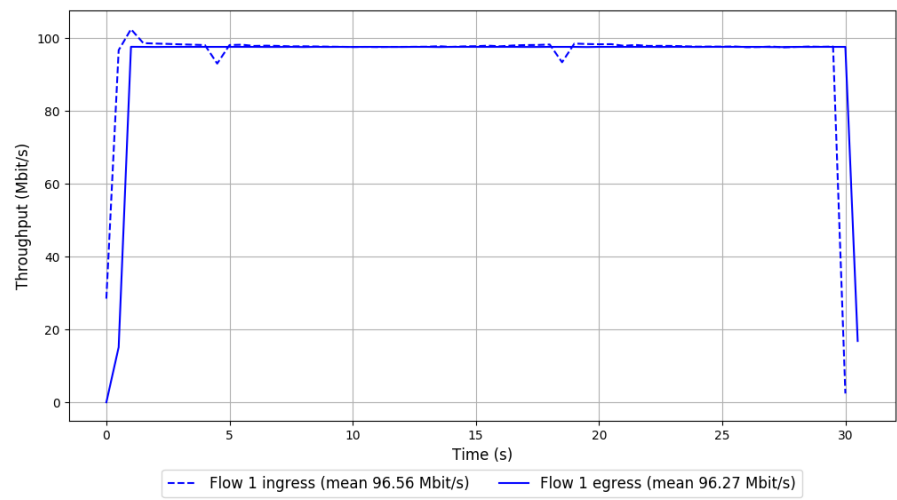
-- Flow 1:

Average throughput: 96.27 Mbit/s

95th percentile per-packet one-way delay: 73.254 ms

Loss rate: 0.17%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-08-01 01:05:05

End at: 2018-08-01 01:05:35

Local clock offset: 2.47 ms

Remote clock offset: 0.866 ms

Below is generated by plot.py at 2018-08-01 03:52:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.26 Mbit/s

95th percentile per-packet one-way delay: 73.806 ms

Loss rate: 0.54%

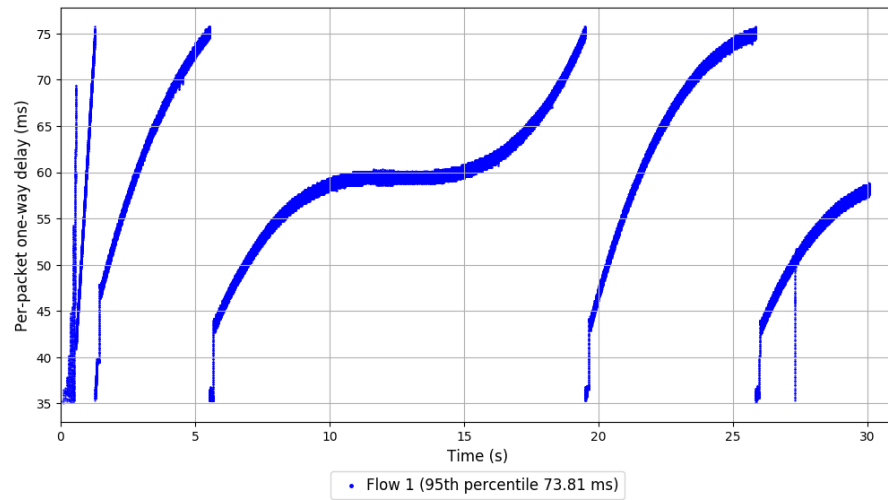
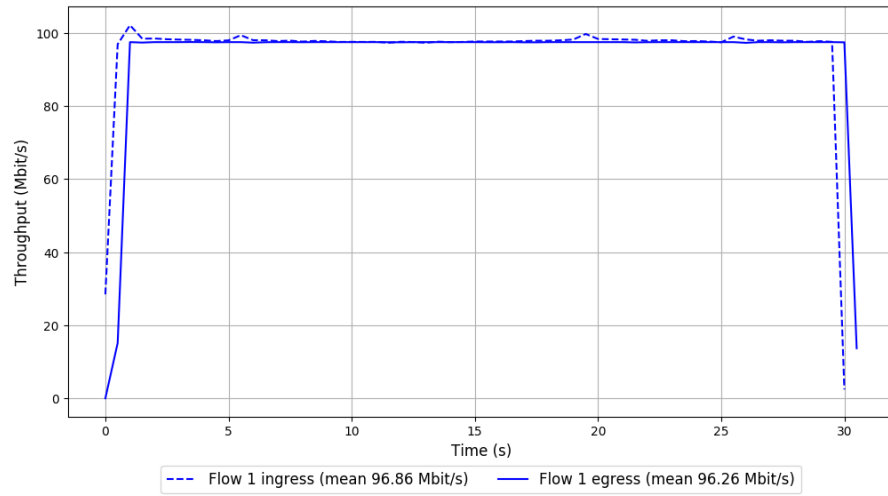
-- Flow 1:

Average throughput: 96.26 Mbit/s

95th percentile per-packet one-way delay: 73.806 ms

Loss rate: 0.54%

Run 3: Report of TCP Cubic — Data Link

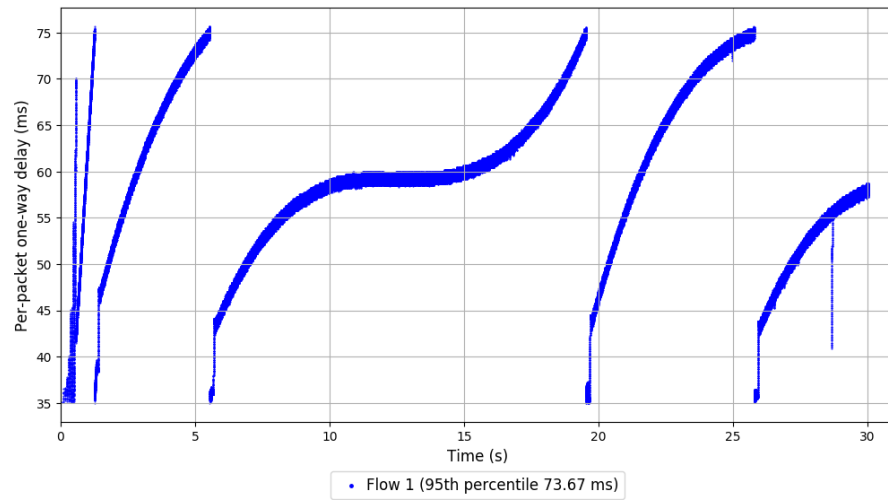
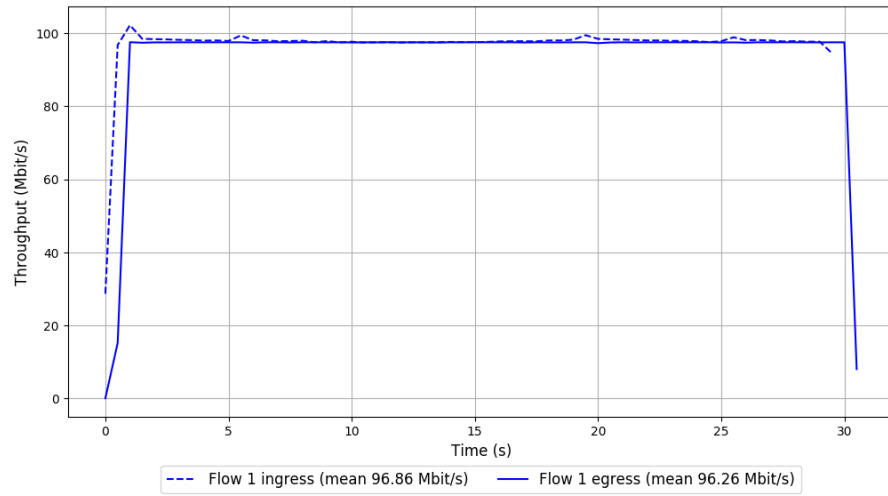


Run 4: Statistics of TCP Cubic

Start at: 2018-08-01 01:27:24
End at: 2018-08-01 01:27:54
Local clock offset: 2.009 ms
Remote clock offset: -0.019 ms

Below is generated by plot.py at 2018-08-01 03:52:20
Datalink statistics
-- Total of 1 flow:
Average throughput: 96.26 Mbit/s
95th percentile per-packet one-way delay: 73.672 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 96.26 Mbit/s
95th percentile per-packet one-way delay: 73.672 ms
Loss rate: 0.54%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-08-01 01:49:43

End at: 2018-08-01 01:50:13

Local clock offset: 1.447 ms

Remote clock offset: 1.924 ms

Below is generated by plot.py at 2018-08-01 03:52:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.25 Mbit/s

95th percentile per-packet one-way delay: 73.922 ms

Loss rate: 0.44%

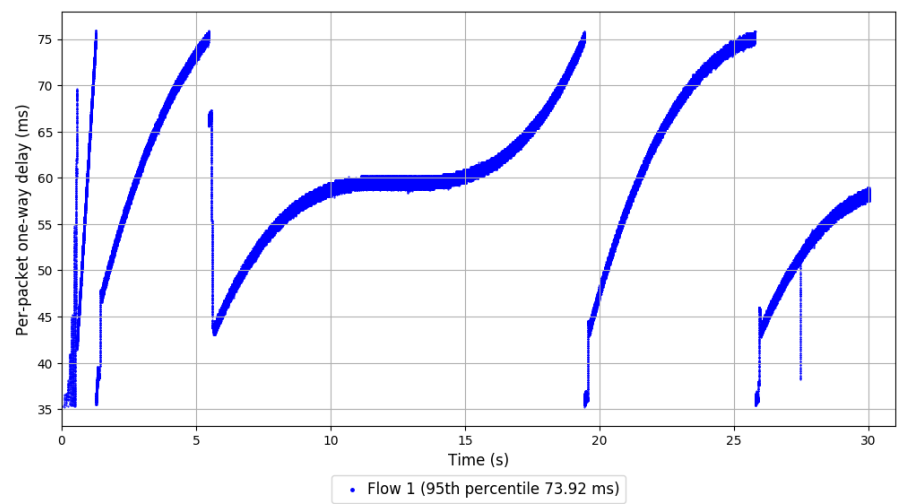
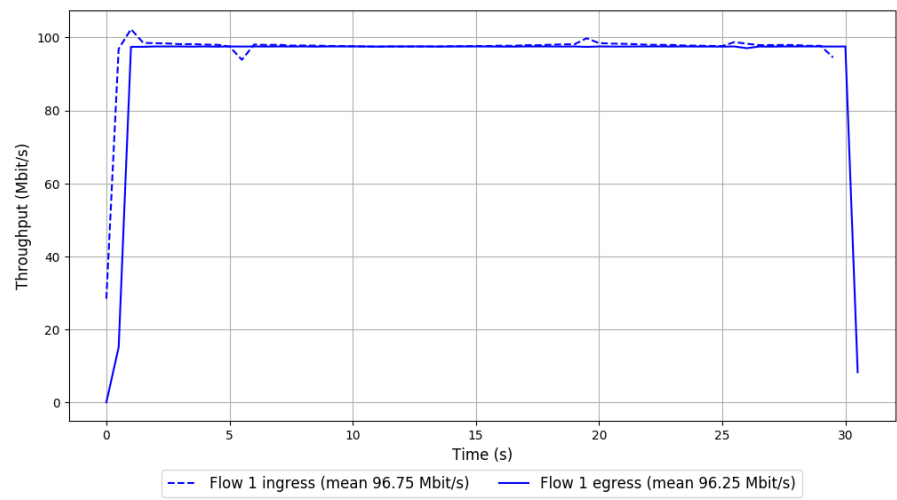
-- Flow 1:

Average throughput: 96.25 Mbit/s

95th percentile per-packet one-way delay: 73.922 ms

Loss rate: 0.44%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-08-01 02:12:01

End at: 2018-08-01 02:12:31

Local clock offset: 0.71 ms

Remote clock offset: 2.98 ms

Below is generated by plot.py at 2018-08-01 03:52:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.02 Mbit/s

95th percentile per-packet one-way delay: 71.891 ms

Loss rate: 0.32%

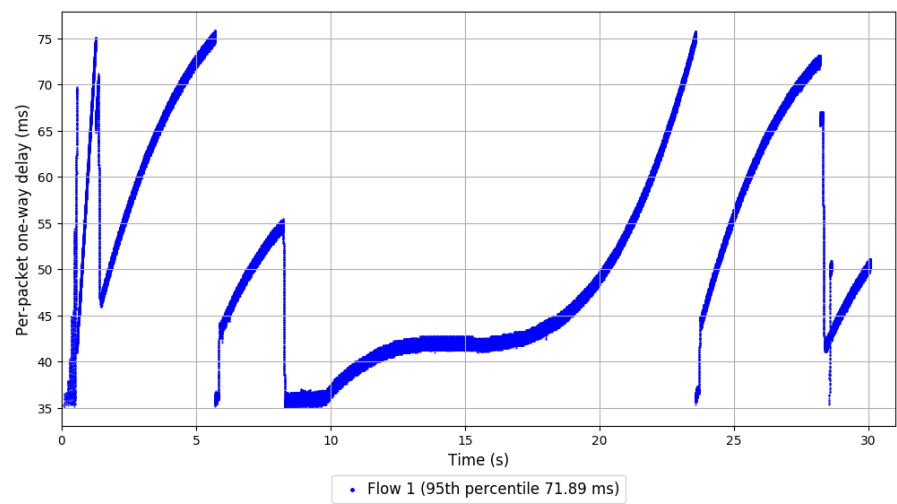
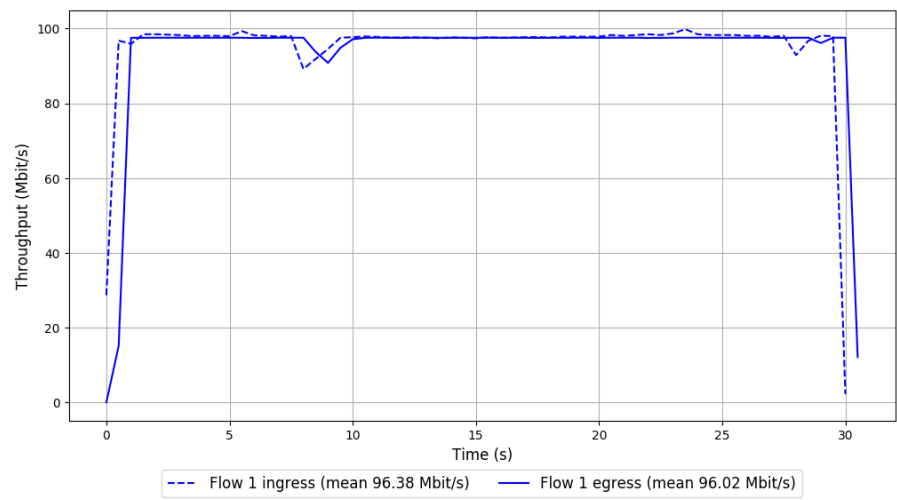
-- Flow 1:

Average throughput: 96.02 Mbit/s

95th percentile per-packet one-way delay: 71.891 ms

Loss rate: 0.32%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-08-01 02:34:21

End at: 2018-08-01 02:34:51

Local clock offset: 0.428 ms

Remote clock offset: 1.923 ms

Below is generated by plot.py at 2018-08-01 03:52:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.23 Mbit/s

95th percentile per-packet one-way delay: 72.706 ms

Loss rate: 0.44%

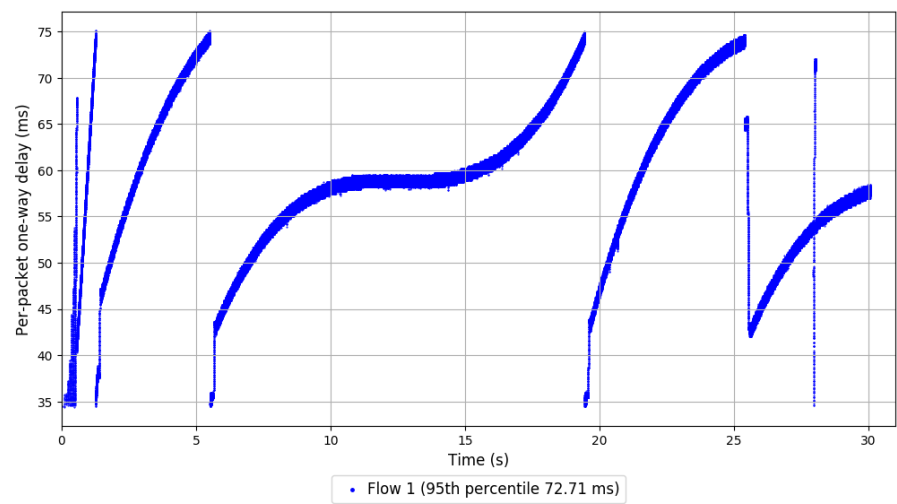
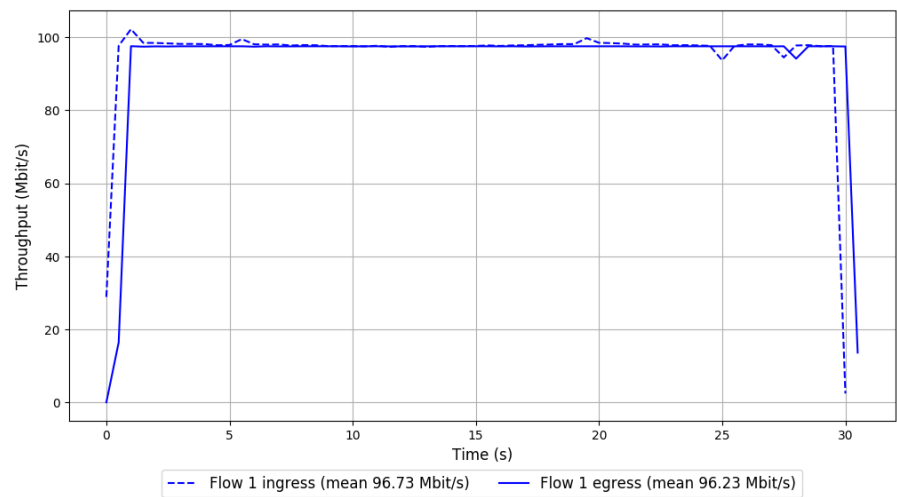
-- Flow 1:

Average throughput: 96.23 Mbit/s

95th percentile per-packet one-way delay: 72.706 ms

Loss rate: 0.44%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-08-01 02:56:38

End at: 2018-08-01 02:57:08

Local clock offset: 0.318 ms

Remote clock offset: 1.559 ms

Below is generated by plot.py at 2018-08-01 03:52:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.26 Mbit/s

95th percentile per-packet one-way delay: 73.877 ms

Loss rate: 0.54%

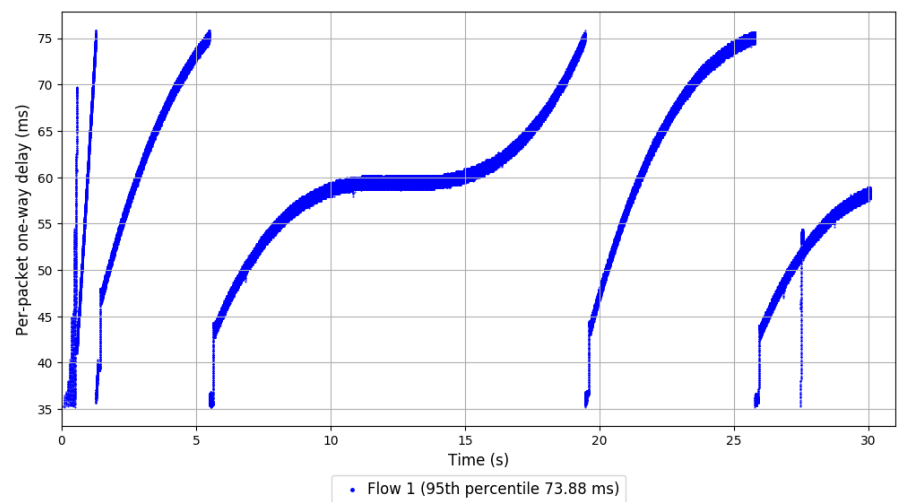
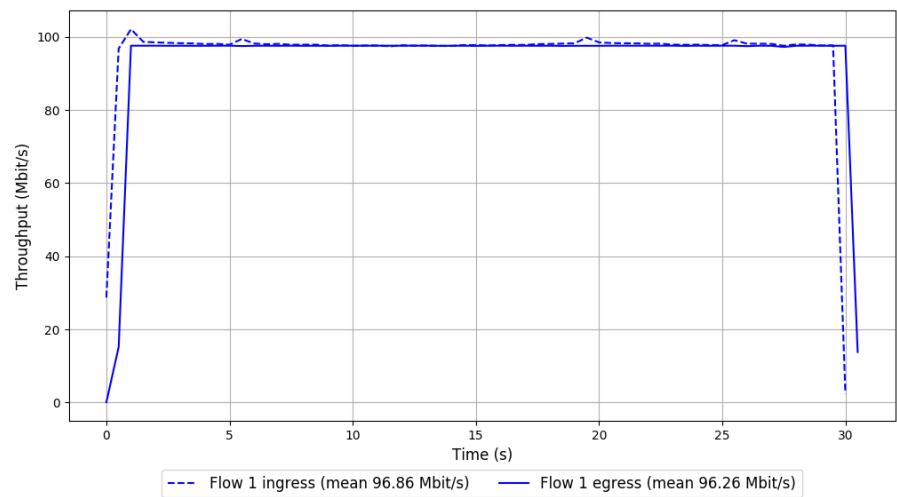
-- Flow 1:

Average throughput: 96.26 Mbit/s

95th percentile per-packet one-way delay: 73.877 ms

Loss rate: 0.54%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-08-01 03:18:56

End at: 2018-08-01 03:19:26

Local clock offset: 0.011 ms

Remote clock offset: 0.413 ms

Below is generated by plot.py at 2018-08-01 03:52:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.27 Mbit/s

95th percentile per-packet one-way delay: 73.985 ms

Loss rate: 0.53%

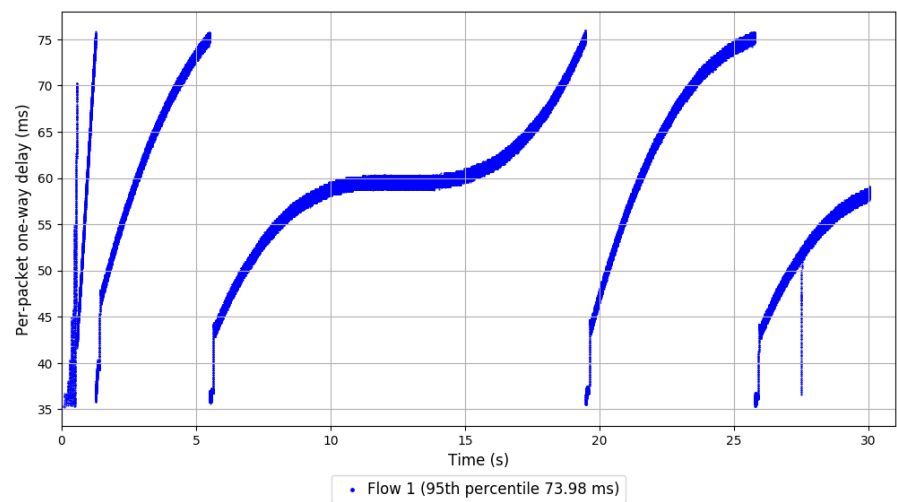
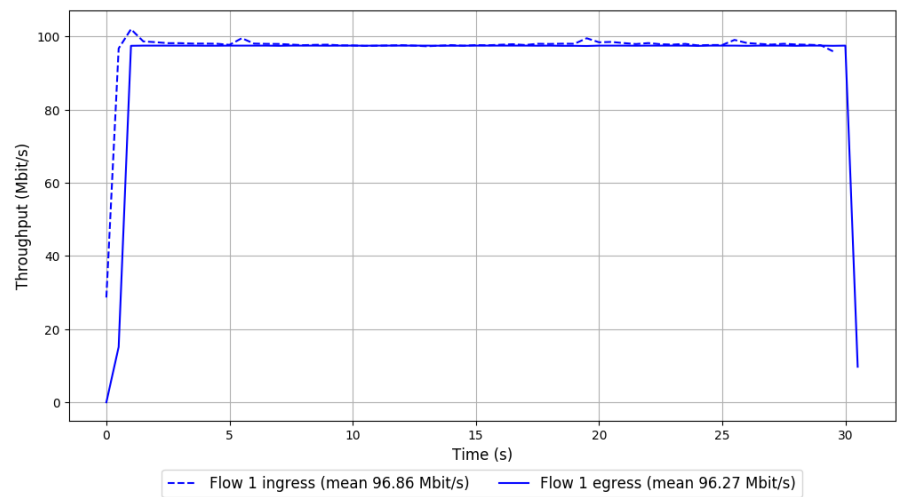
-- Flow 1:

Average throughput: 96.27 Mbit/s

95th percentile per-packet one-way delay: 73.985 ms

Loss rate: 0.53%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-08-01 03:41:14

End at: 2018-08-01 03:41:44

Local clock offset: -3.175 ms

Remote clock offset: 9.769 ms

Below is generated by plot.py at 2018-08-01 03:52:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.26 Mbit/s

95th percentile per-packet one-way delay: 73.664 ms

Loss rate: 0.54%

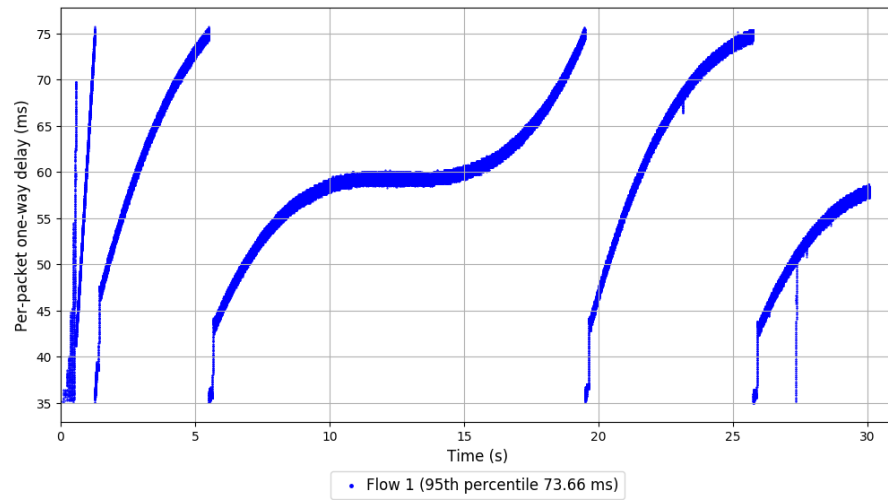
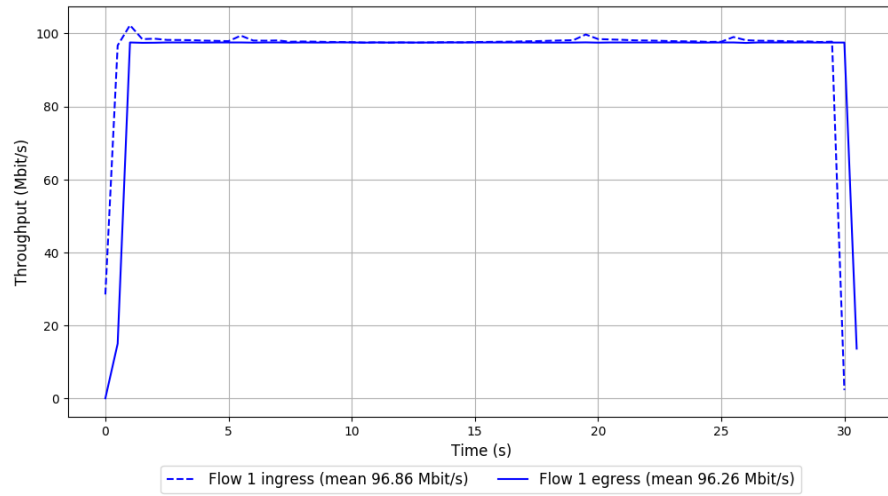
-- Flow 1:

Average throughput: 96.26 Mbit/s

95th percentile per-packet one-way delay: 73.664 ms

Loss rate: 0.54%

Run 10: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2018-08-01 00:17:46

End at: 2018-08-01 00:18:16

Local clock offset: 8.676 ms

Remote clock offset: 1.428 ms

Below is generated by plot.py at 2018-08-01 03:53:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.21 Mbit/s

95th percentile per-packet one-way delay: 71.348 ms

Loss rate: 8.65%

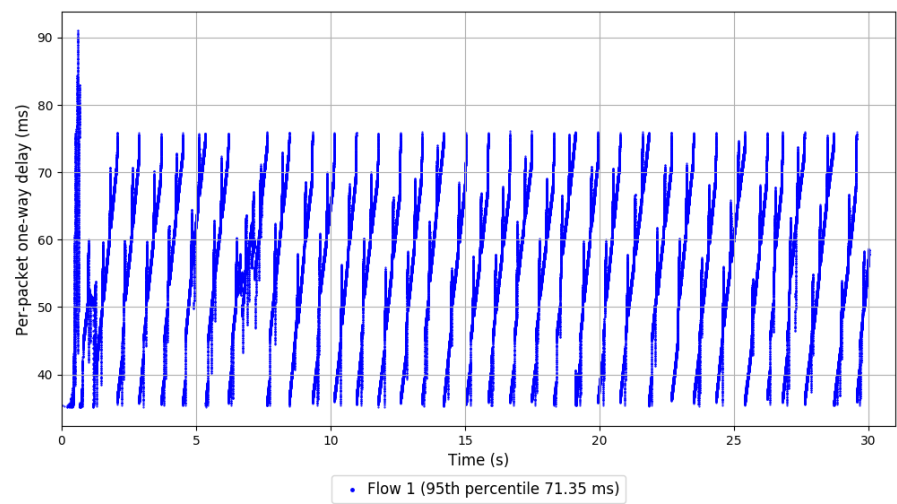
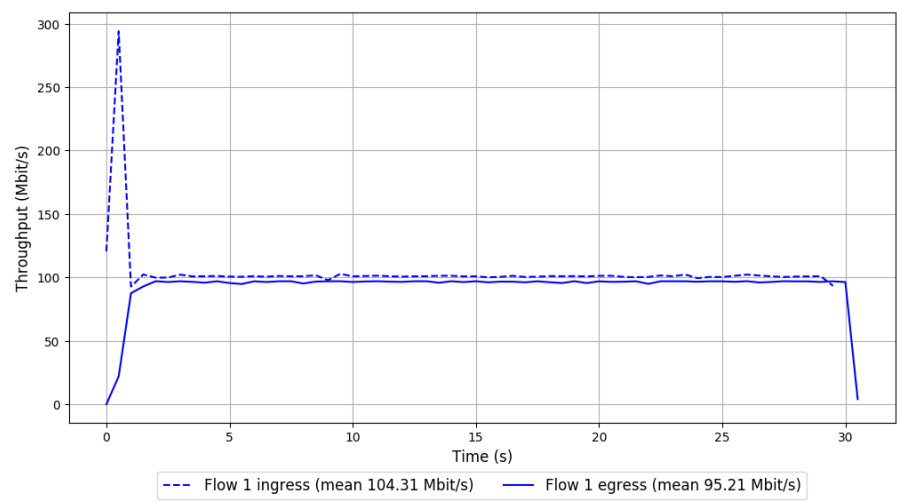
-- Flow 1:

Average throughput: 95.21 Mbit/s

95th percentile per-packet one-way delay: 71.348 ms

Loss rate: 8.65%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-08-01 00:40:03

End at: 2018-08-01 00:40:33

Local clock offset: 4.281 ms

Remote clock offset: 1.196 ms

Below is generated by plot.py at 2018-08-01 03:53:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.47 Mbit/s

95th percentile per-packet one-way delay: 69.231 ms

Loss rate: 8.28%

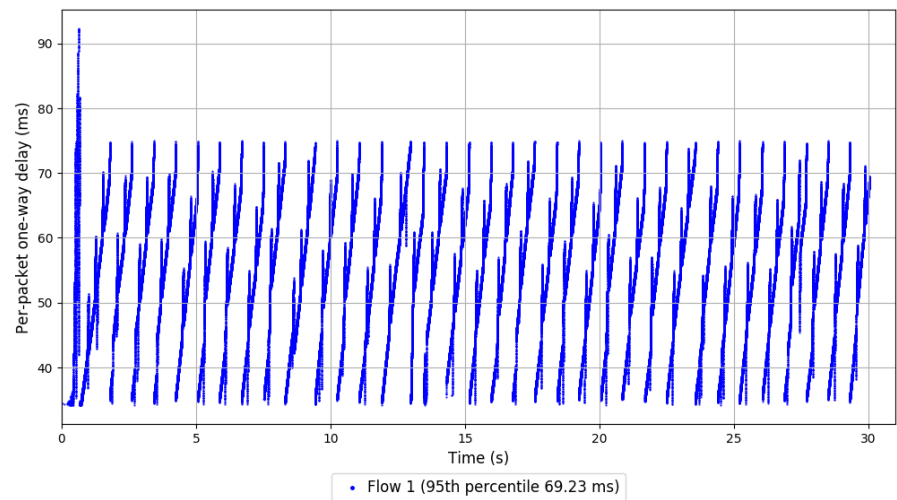
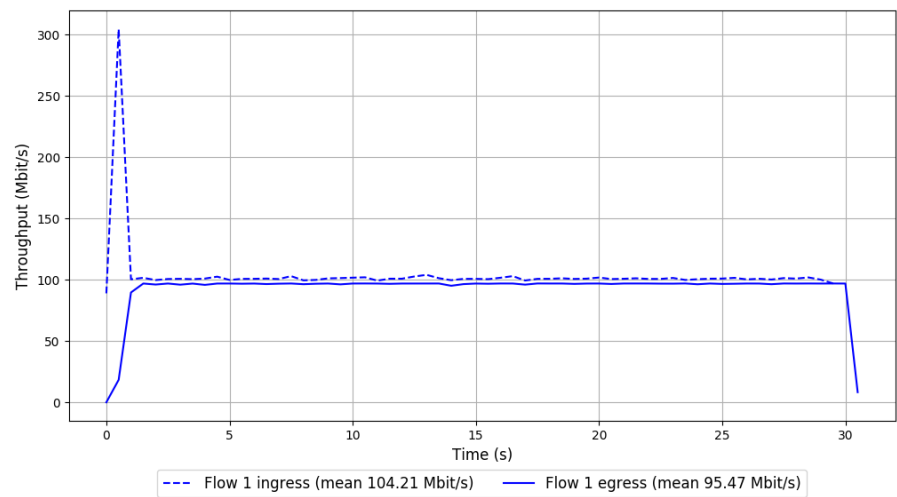
-- Flow 1:

Average throughput: 95.47 Mbit/s

95th percentile per-packet one-way delay: 69.231 ms

Loss rate: 8.28%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-08-01 01:02:26

End at: 2018-08-01 01:02:56

Local clock offset: 2.677 ms

Remote clock offset: 0.997 ms

Below is generated by plot.py at 2018-08-01 03:54:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.27 Mbit/s

95th percentile per-packet one-way delay: 71.318 ms

Loss rate: 8.78%

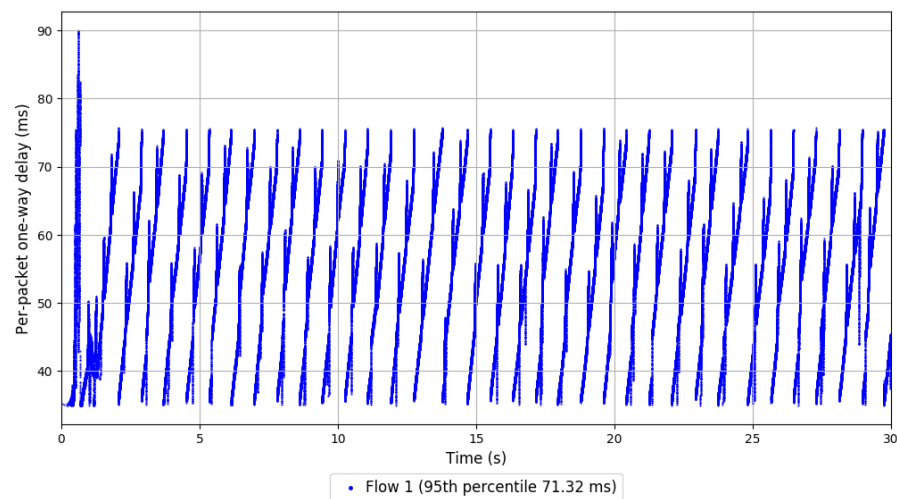
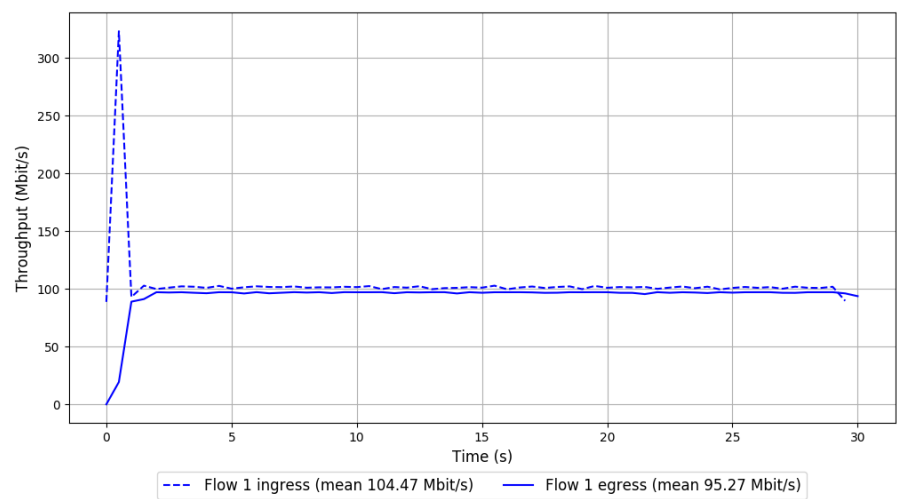
-- Flow 1:

Average throughput: 95.27 Mbit/s

95th percentile per-packet one-way delay: 71.318 ms

Loss rate: 8.78%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-08-01 01:24:45

End at: 2018-08-01 01:25:15

Local clock offset: 2.441 ms

Remote clock offset: 0.083 ms

Below is generated by plot.py at 2018-08-01 03:54:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.14 Mbit/s

95th percentile per-packet one-way delay: 70.651 ms

Loss rate: 8.75%

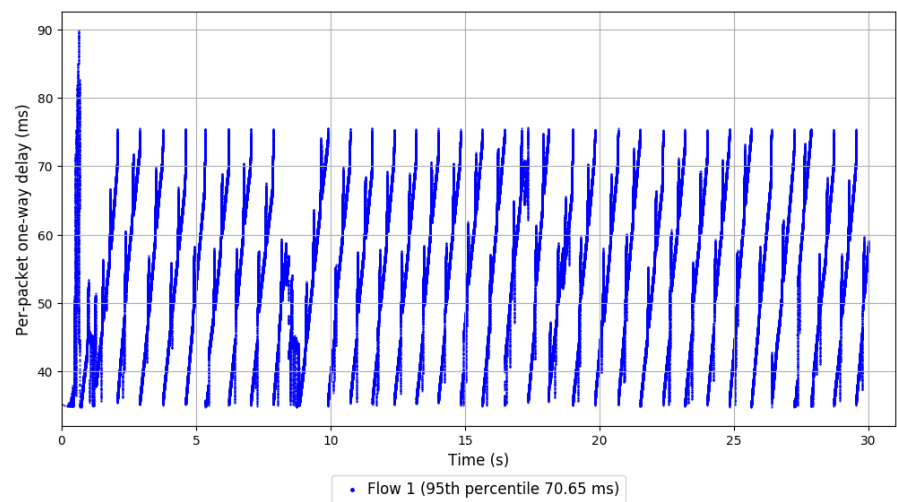
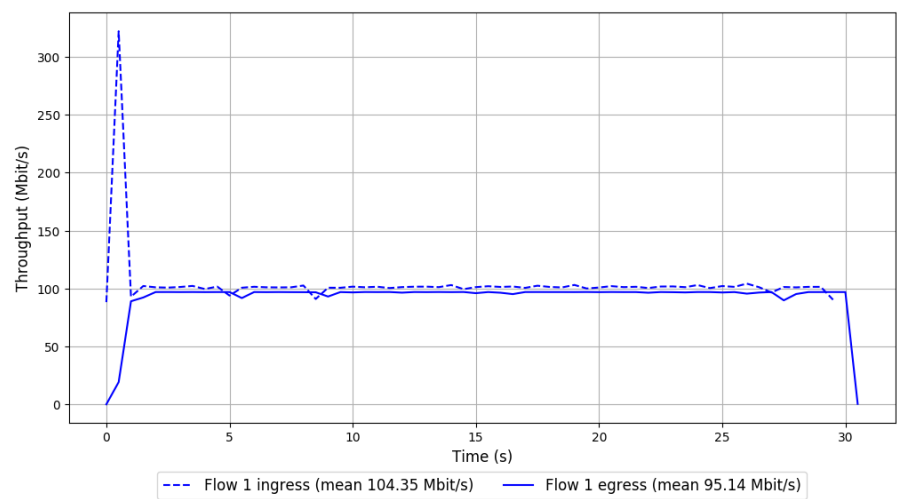
-- Flow 1:

Average throughput: 95.14 Mbit/s

95th percentile per-packet one-way delay: 70.651 ms

Loss rate: 8.75%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-08-01 01:47:04

End at: 2018-08-01 01:47:34

Local clock offset: 1.37 ms

Remote clock offset: 1.481 ms

Below is generated by plot.py at 2018-08-01 03:54:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.30 Mbit/s

95th percentile per-packet one-way delay: 69.875 ms

Loss rate: 8.53%

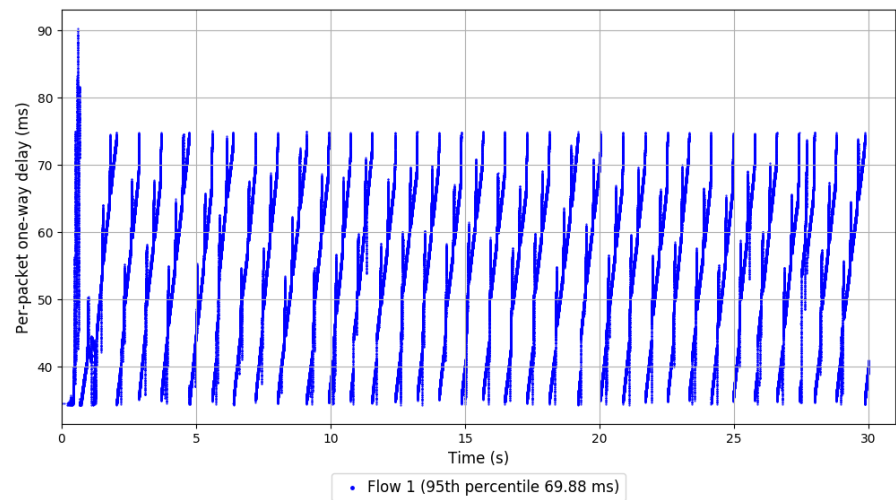
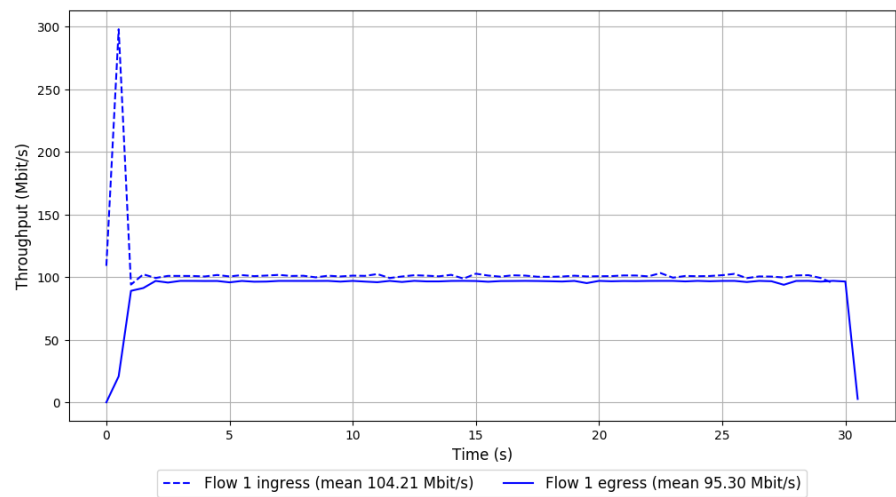
-- Flow 1:

Average throughput: 95.30 Mbit/s

95th percentile per-packet one-way delay: 69.875 ms

Loss rate: 8.53%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-08-01 02:09:22

End at: 2018-08-01 02:09:52

Local clock offset: 0.715 ms

Remote clock offset: 2.98 ms

Below is generated by plot.py at 2018-08-01 03:54:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.17 Mbit/s

95th percentile per-packet one-way delay: 70.659 ms

Loss rate: 8.50%

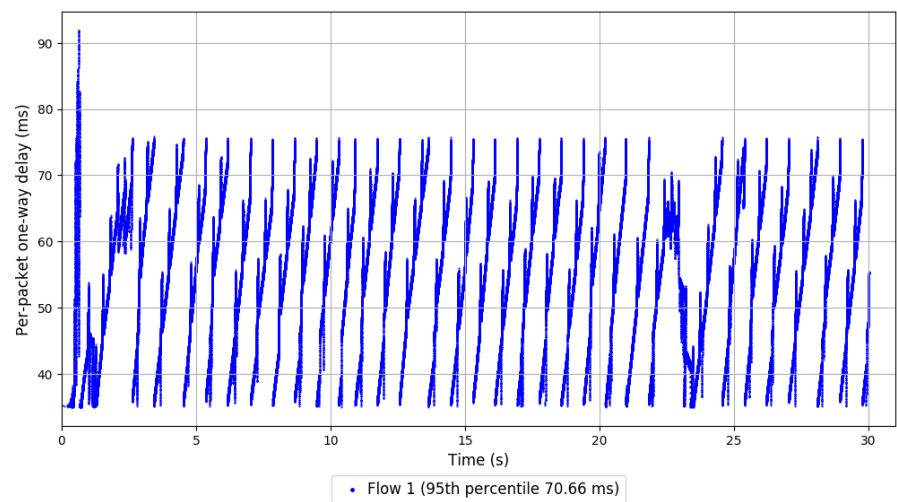
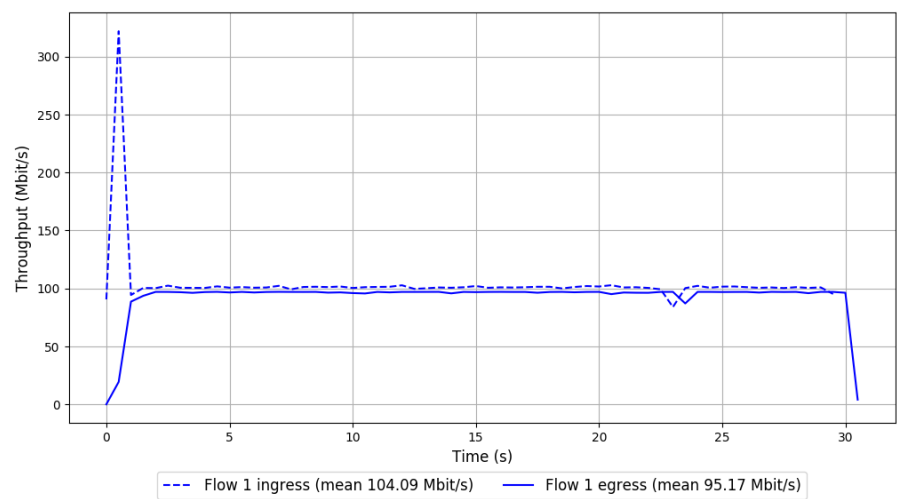
-- Flow 1:

Average throughput: 95.17 Mbit/s

95th percentile per-packet one-way delay: 70.659 ms

Loss rate: 8.50%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-08-01 02:31:42

End at: 2018-08-01 02:32:12

Local clock offset: 0.462 ms

Remote clock offset: 2.049 ms

Below is generated by plot.py at 2018-08-01 03:54:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.22 Mbit/s

95th percentile per-packet one-way delay: 70.887 ms

Loss rate: 8.34%

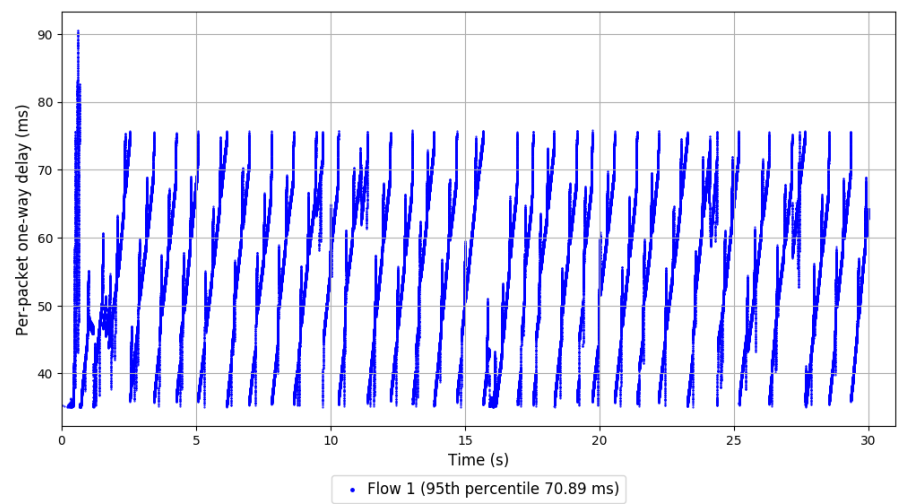
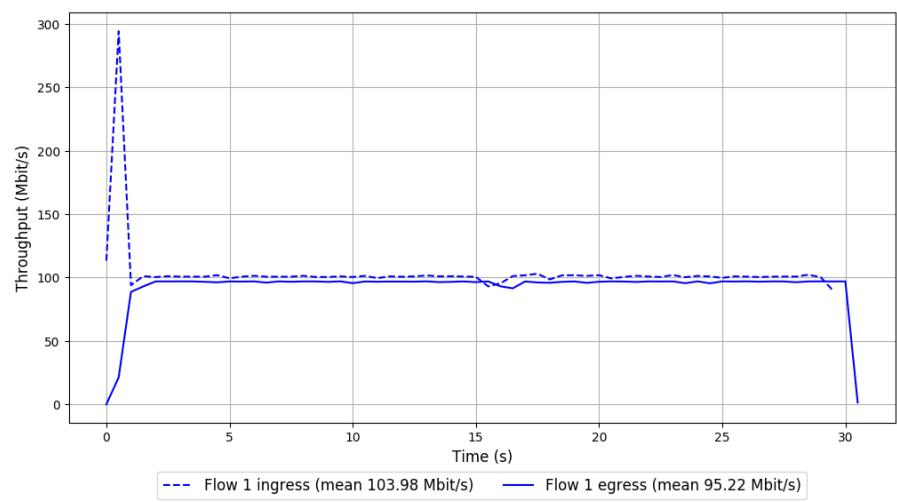
-- Flow 1:

Average throughput: 95.22 Mbit/s

95th percentile per-packet one-way delay: 70.887 ms

Loss rate: 8.34%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-08-01 02:54:00

End at: 2018-08-01 02:54:30

Local clock offset: 0.332 ms

Remote clock offset: 1.588 ms

Below is generated by plot.py at 2018-08-01 03:54:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.38 Mbit/s

95th percentile per-packet one-way delay: 70.042 ms

Loss rate: 7.25%

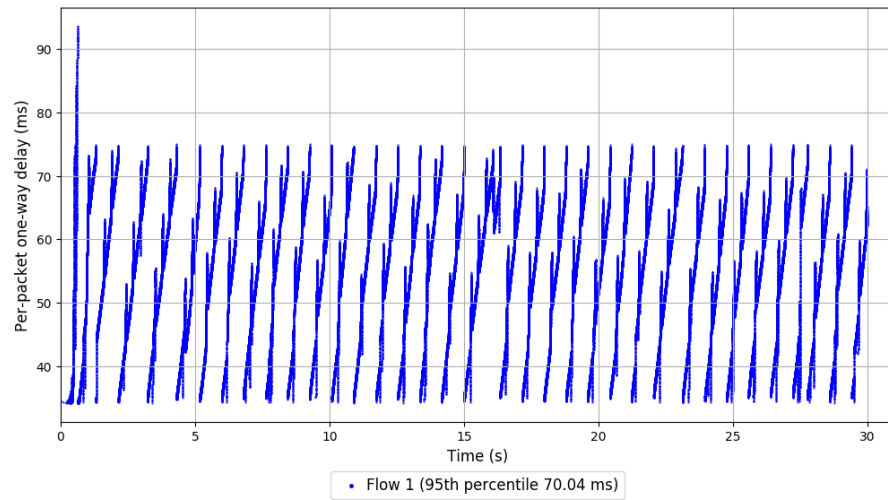
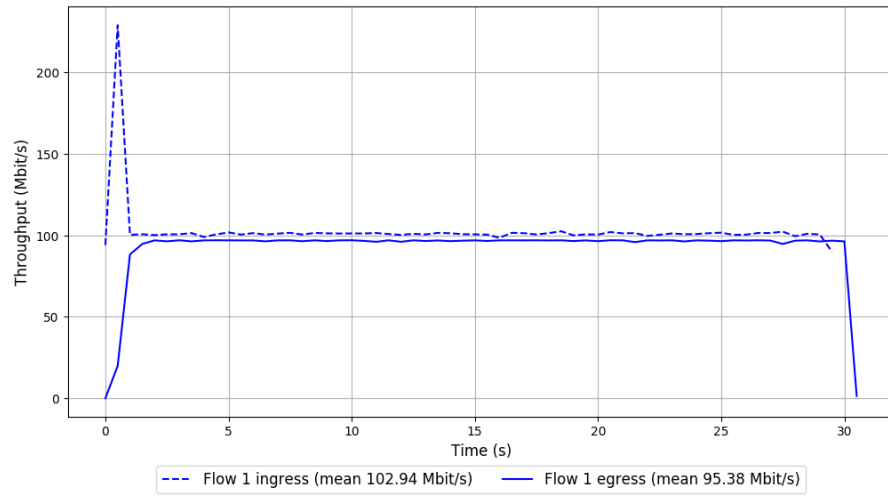
-- Flow 1:

Average throughput: 95.38 Mbit/s

95th percentile per-packet one-way delay: 70.042 ms

Loss rate: 7.25%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-08-01 03:16:17

End at: 2018-08-01 03:16:47

Local clock offset: 0.132 ms

Remote clock offset: 0.566 ms

Below is generated by plot.py at 2018-08-01 03:55:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.45 Mbit/s

95th percentile per-packet one-way delay: 70.707 ms

Loss rate: 8.60%

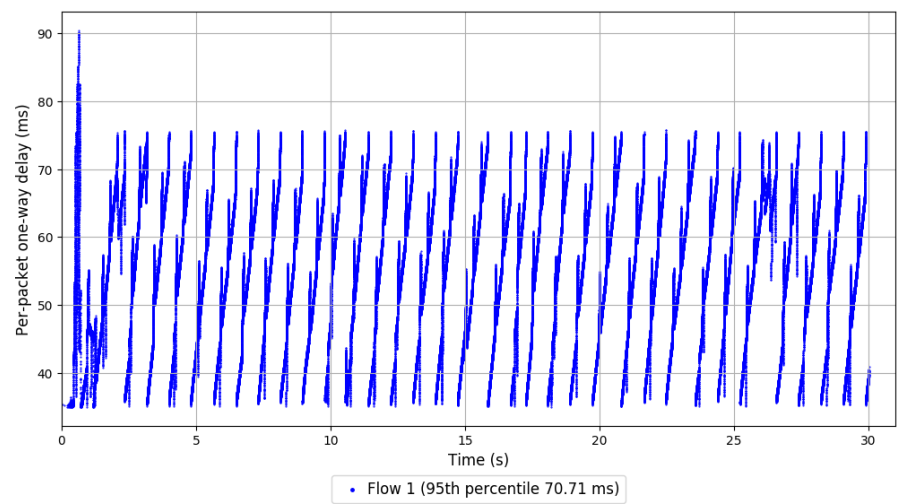
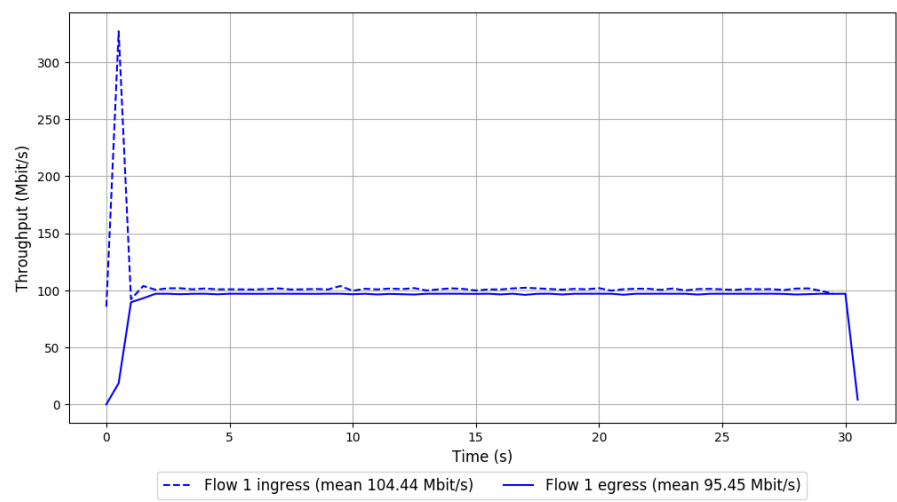
-- Flow 1:

Average throughput: 95.45 Mbit/s

95th percentile per-packet one-way delay: 70.707 ms

Loss rate: 8.60%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-08-01 03:38:35

End at: 2018-08-01 03:39:05

Local clock offset: -2.923 ms

Remote clock offset: 8.994 ms

Below is generated by plot.py at 2018-08-01 03:55:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.25 Mbit/s

95th percentile per-packet one-way delay: 70.633 ms

Loss rate: 8.63%

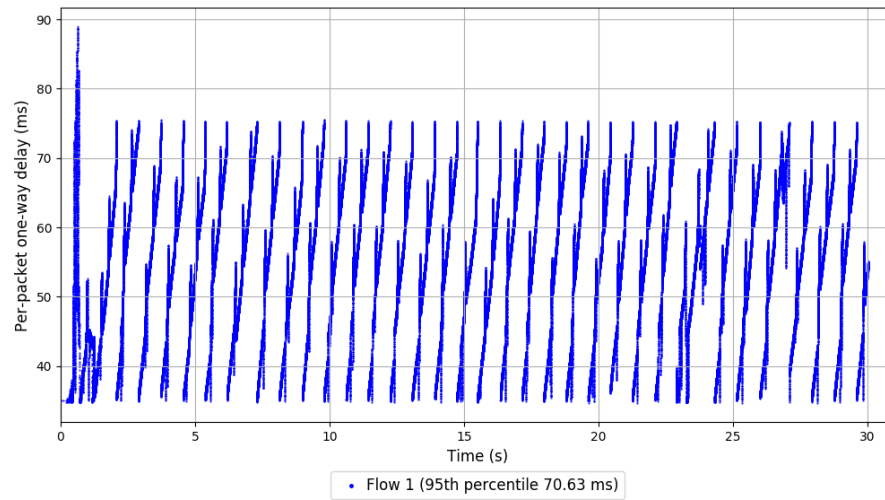
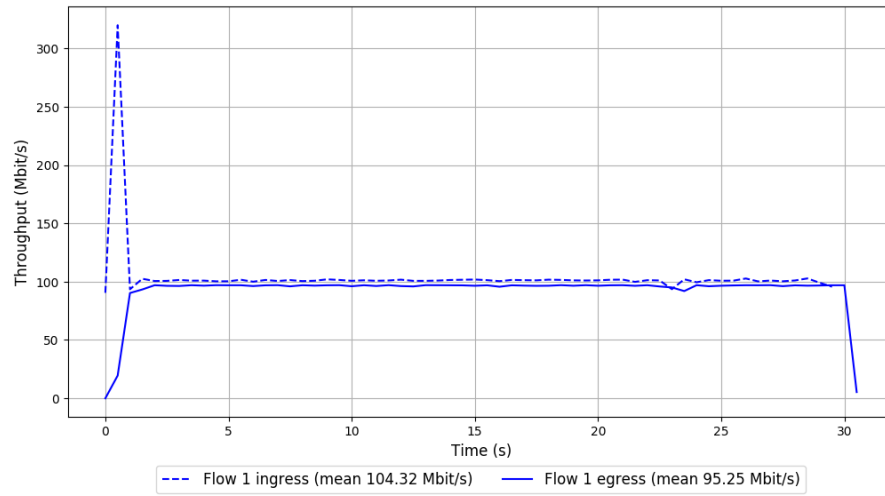
-- Flow 1:

Average throughput: 95.25 Mbit/s

95th percentile per-packet one-way delay: 70.633 ms

Loss rate: 8.63%

Run 10: Report of FillP — Data Link



Run 1: Statistics of FillP-Sheep

Start at: 2018-08-01 00:04:49

End at: 2018-08-01 00:05:19

Local clock offset: 8.164 ms

Remote clock offset: 2.753 ms

Below is generated by plot.py at 2018-08-01 03:55:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.42 Mbit/s

95th percentile per-packet one-way delay: 51.004 ms

Loss rate: 0.94%

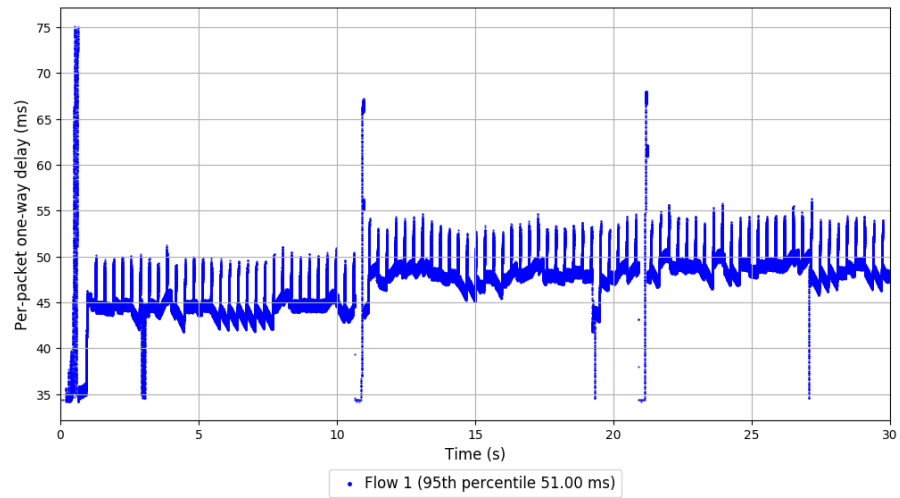
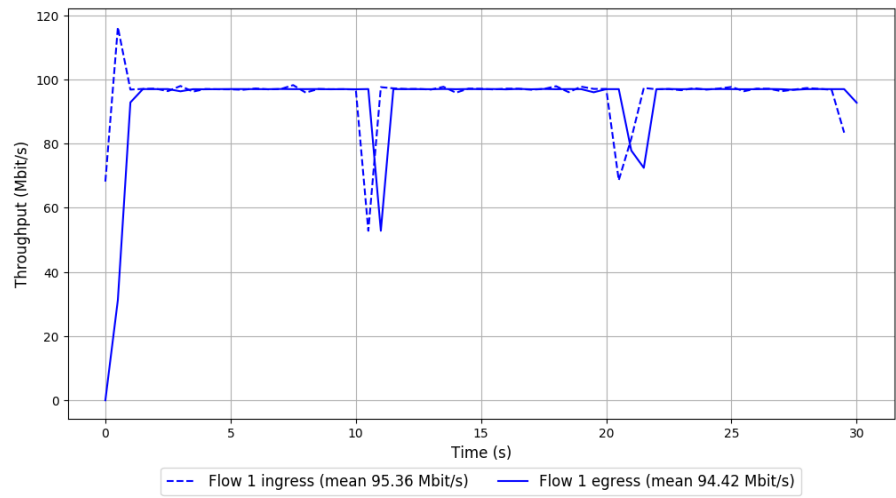
-- Flow 1:

Average throughput: 94.42 Mbit/s

95th percentile per-packet one-way delay: 51.004 ms

Loss rate: 0.94%

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

Start at: 2018-08-01 00:27:00

End at: 2018-08-01 00:27:30

Local clock offset: 6.765 ms

Remote clock offset: 0.755 ms

Below is generated by plot.py at 2018-08-01 03:55:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.39 Mbit/s

95th percentile per-packet one-way delay: 51.238 ms

Loss rate: 1.17%

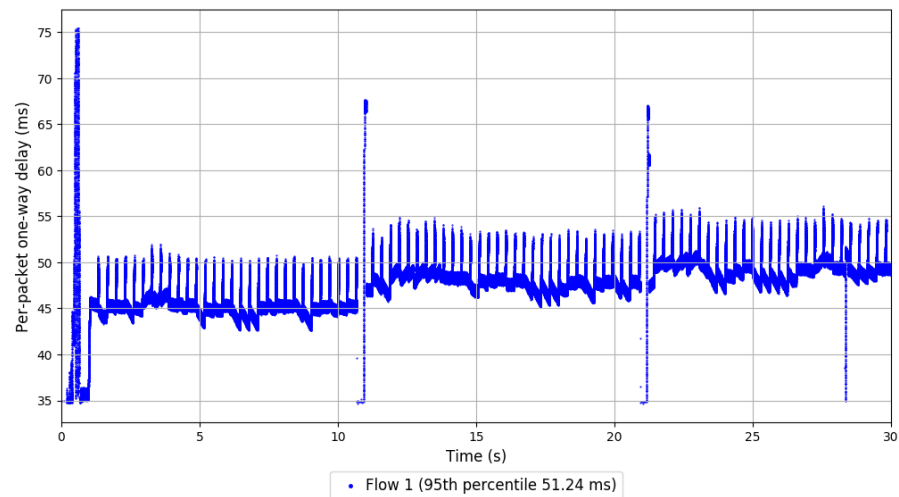
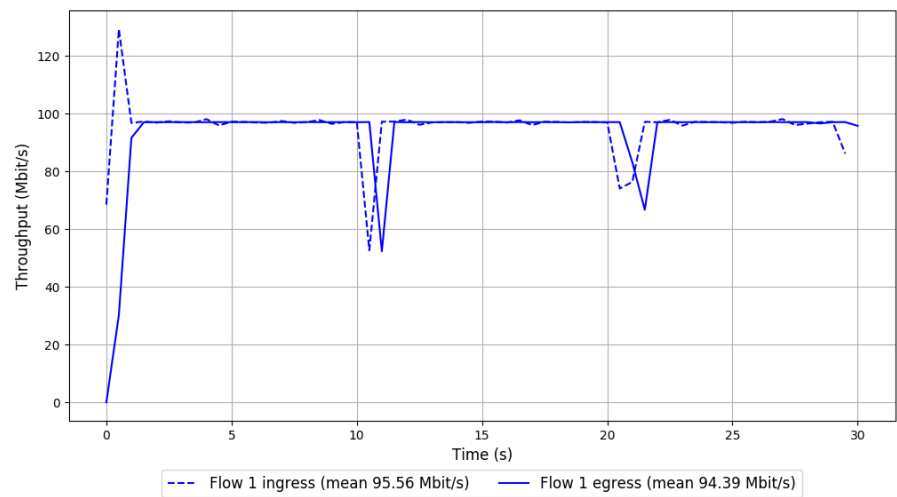
-- Flow 1:

Average throughput: 94.39 Mbit/s

95th percentile per-packet one-way delay: 51.238 ms

Loss rate: 1.17%

Run 2: Report of FillP-Sheep — Data Link



Run 3: Statistics of FillP-Sheep

Start at: 2018-08-01 00:49:18

End at: 2018-08-01 00:49:48

Local clock offset: 4.826 ms

Remote clock offset: 1.348 ms

Below is generated by plot.py at 2018-08-01 03:55:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.37 Mbit/s

95th percentile per-packet one-way delay: 51.936 ms

Loss rate: 0.91%

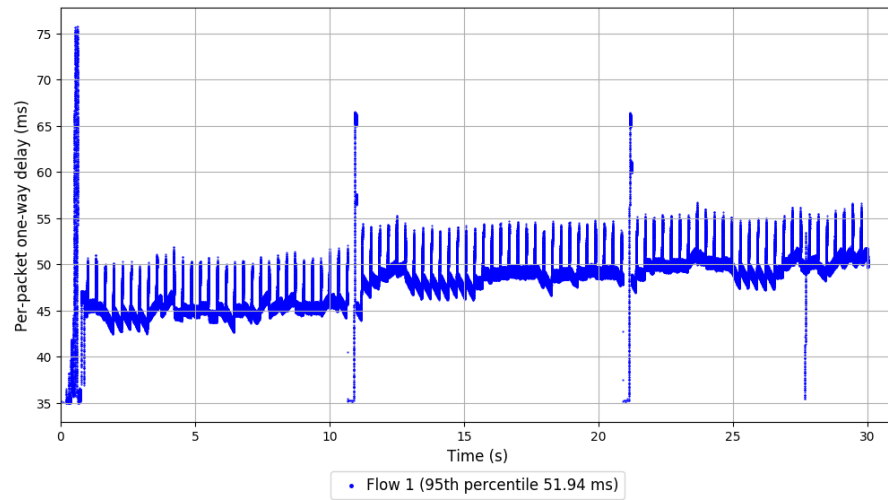
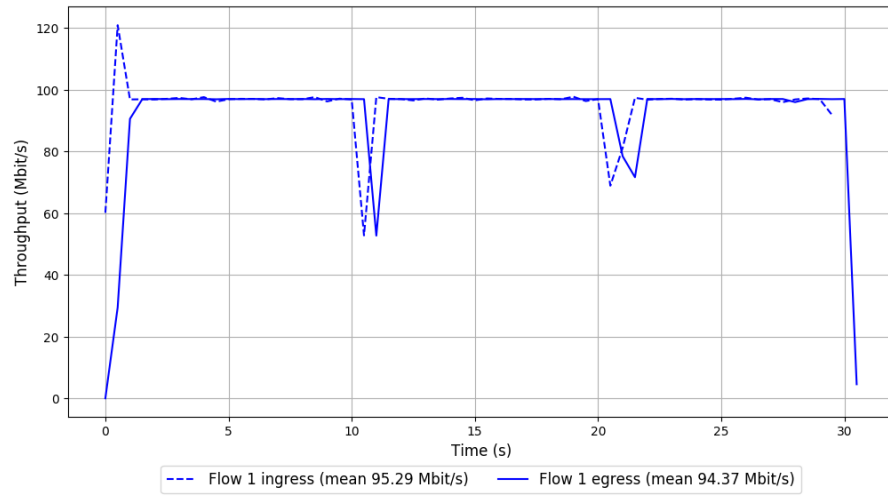
-- Flow 1:

Average throughput: 94.37 Mbit/s

95th percentile per-packet one-way delay: 51.936 ms

Loss rate: 0.91%

Run 3: Report of FillP-Sheep — Data Link



Run 4: Statistics of FillP-Sheep

Start at: 2018-08-01 01:11:40

End at: 2018-08-01 01:12:10

Local clock offset: 2.371 ms

Remote clock offset: 0.51 ms

Below is generated by plot.py at 2018-08-01 03:55:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.44 Mbit/s

95th percentile per-packet one-way delay: 50.503 ms

Loss rate: 0.92%

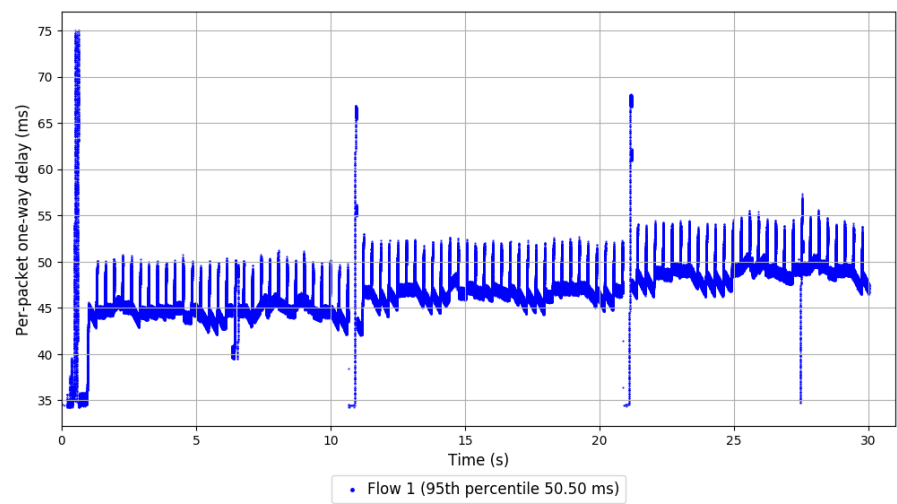
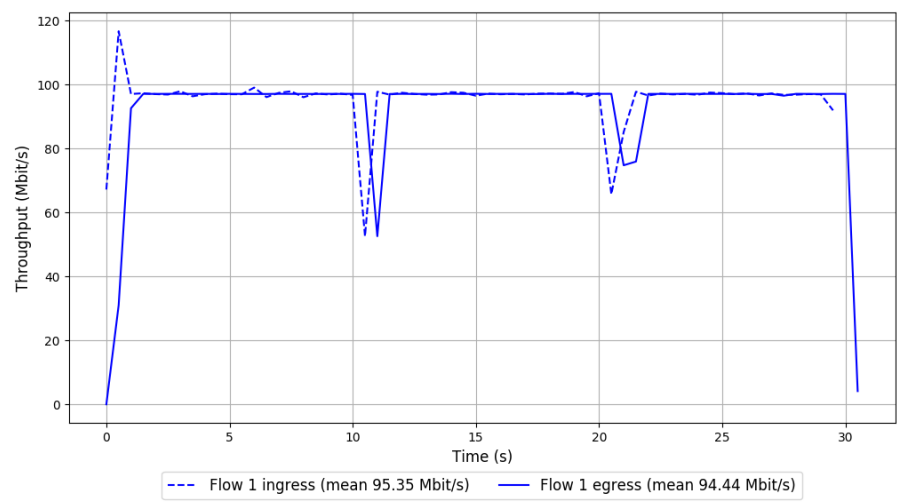
-- Flow 1:

Average throughput: 94.44 Mbit/s

95th percentile per-packet one-way delay: 50.503 ms

Loss rate: 0.92%

Run 4: Report of FillP-Sheep — Data Link



Run 5: Statistics of FillP-Sheep

Start at: 2018-08-01 01:33:59

End at: 2018-08-01 01:34:29

Local clock offset: 1.369 ms

Remote clock offset: 0.005 ms

Below is generated by plot.py at 2018-08-01 03:55:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.40 Mbit/s

95th percentile per-packet one-way delay: 51.283 ms

Loss rate: 0.86%

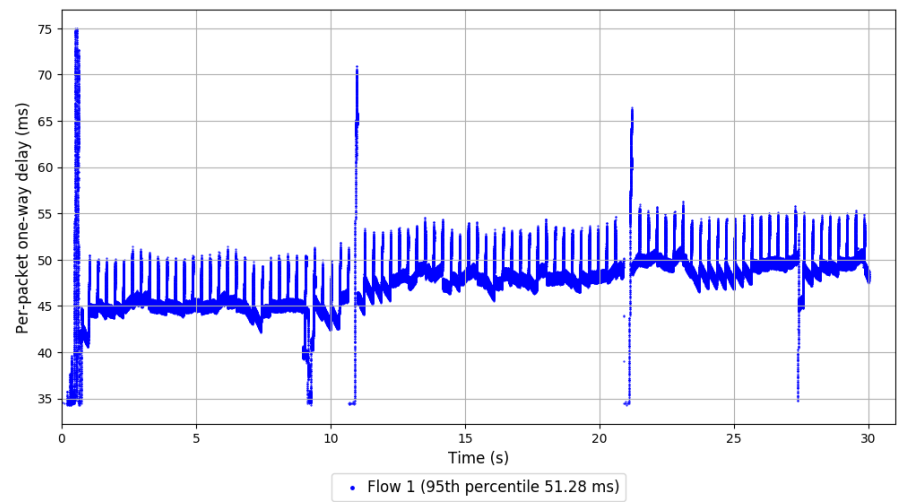
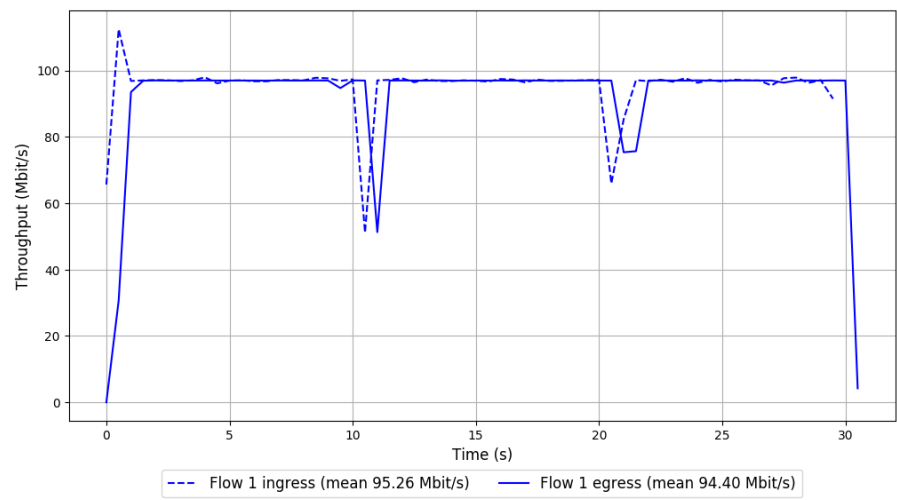
-- Flow 1:

Average throughput: 94.40 Mbit/s

95th percentile per-packet one-way delay: 51.283 ms

Loss rate: 0.86%

Run 5: Report of FillP-Sheep — Data Link



Run 6: Statistics of FillP-Sheep

Start at: 2018-08-01 01:56:18

End at: 2018-08-01 01:56:48

Local clock offset: 1.117 ms

Remote clock offset: 2.57 ms

Below is generated by plot.py at 2018-08-01 03:55:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.45 Mbit/s

95th percentile per-packet one-way delay: 51.501 ms

Loss rate: 0.78%

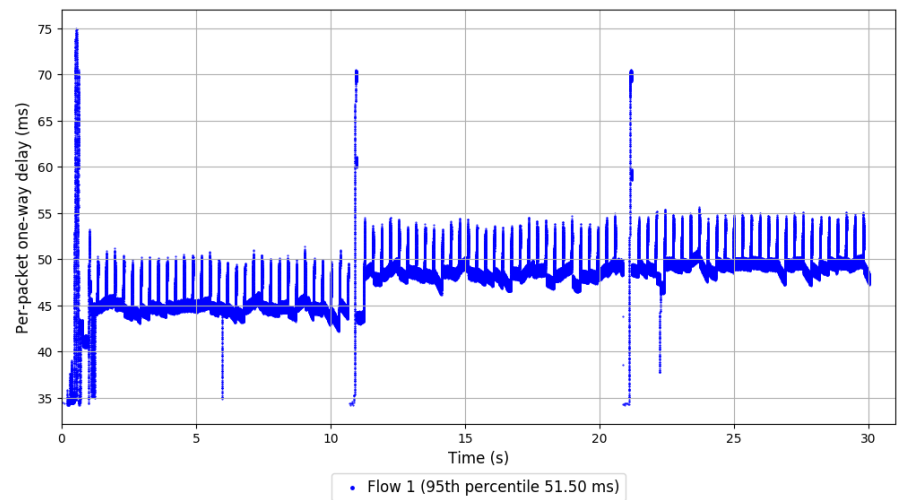
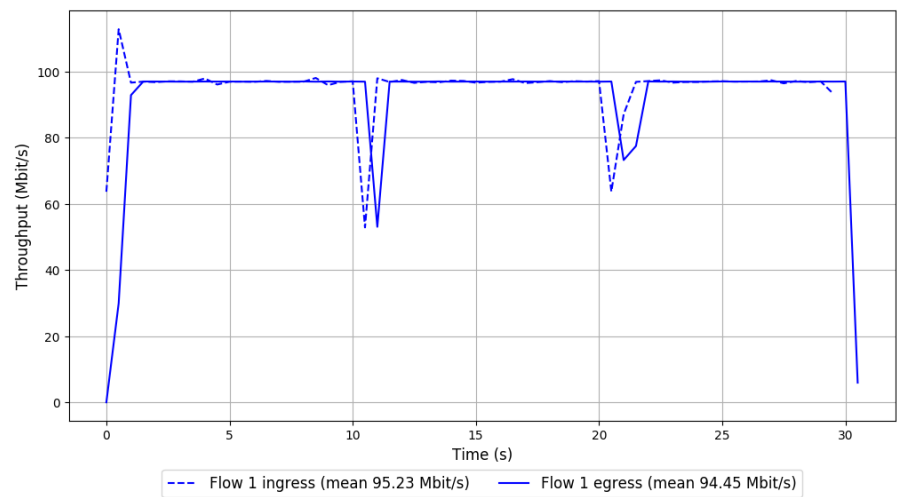
-- Flow 1:

Average throughput: 94.45 Mbit/s

95th percentile per-packet one-way delay: 51.501 ms

Loss rate: 0.78%

Run 6: Report of FillP-Sheep — Data Link

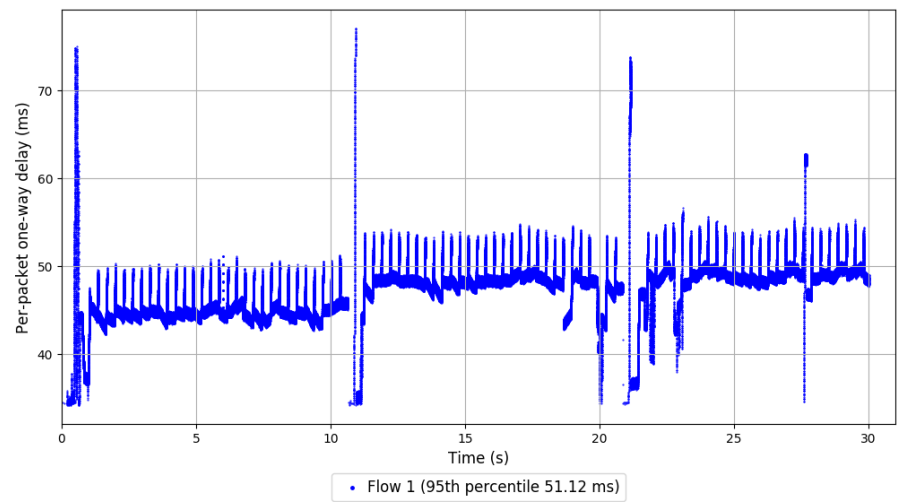
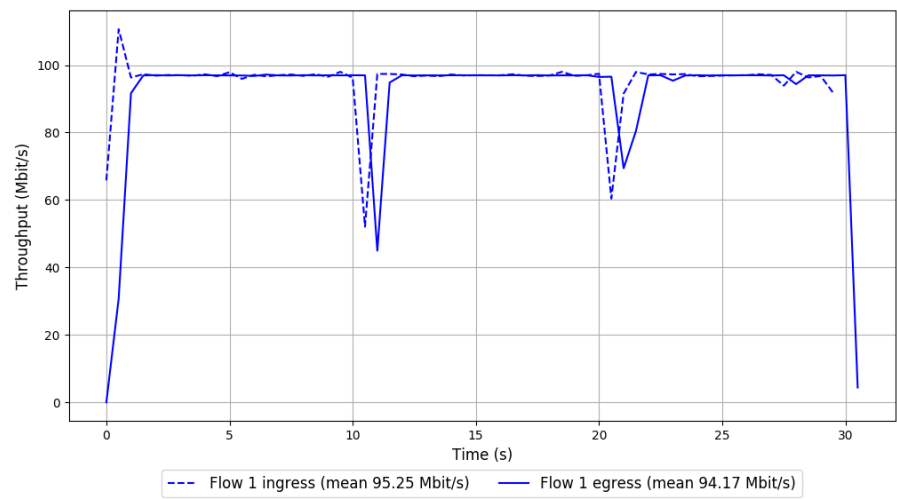


Run 7: Statistics of FillP-Sheep

Start at: 2018-08-01 02:18:38
End at: 2018-08-01 02:19:08
Local clock offset: 0.751 ms
Remote clock offset: 2.63 ms

Below is generated by plot.py at 2018-08-01 03:56:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 94.17 Mbit/s
95th percentile per-packet one-way delay: 51.121 ms
Loss rate: 1.09%
-- Flow 1:
Average throughput: 94.17 Mbit/s
95th percentile per-packet one-way delay: 51.121 ms
Loss rate: 1.09%

Run 7: Report of FillP-Sheep — Data Link



Run 8: Statistics of FillP-Sheep

Start at: 2018-08-01 02:40:58

End at: 2018-08-01 02:41:28

Local clock offset: 0.378 ms

Remote clock offset: 1.915 ms

Below is generated by plot.py at 2018-08-01 03:56:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.47 Mbit/s

95th percentile per-packet one-way delay: 51.674 ms

Loss rate: 0.91%

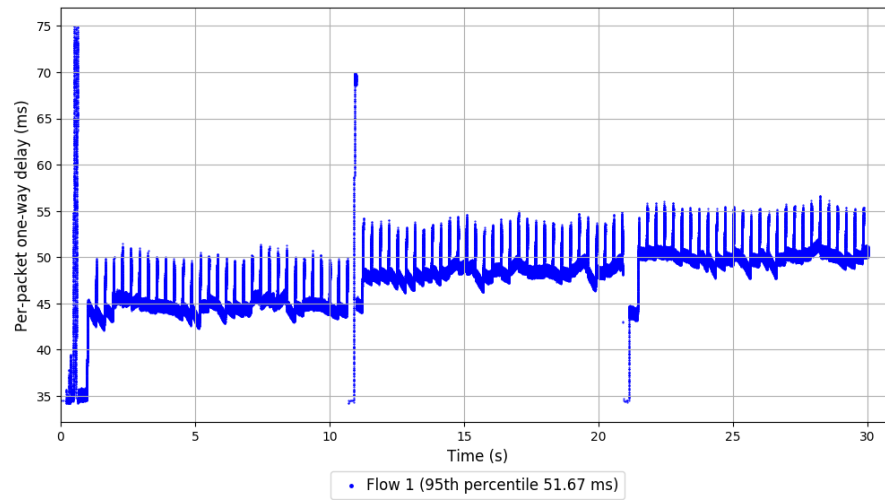
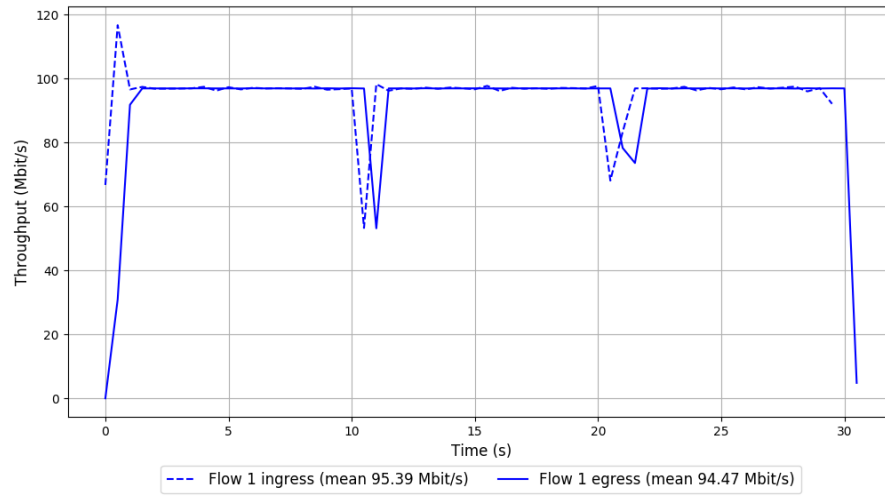
-- Flow 1:

Average throughput: 94.47 Mbit/s

95th percentile per-packet one-way delay: 51.674 ms

Loss rate: 0.91%

Run 8: Report of FillP-Sheep — Data Link



Run 9: Statistics of FillP-Sheep

Start at: 2018-08-01 03:03:14

End at: 2018-08-01 03:03:44

Local clock offset: 0.244 ms

Remote clock offset: 1.296 ms

Below is generated by plot.py at 2018-08-01 03:57:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.33 Mbit/s

95th percentile per-packet one-way delay: 52.909 ms

Loss rate: 1.55%

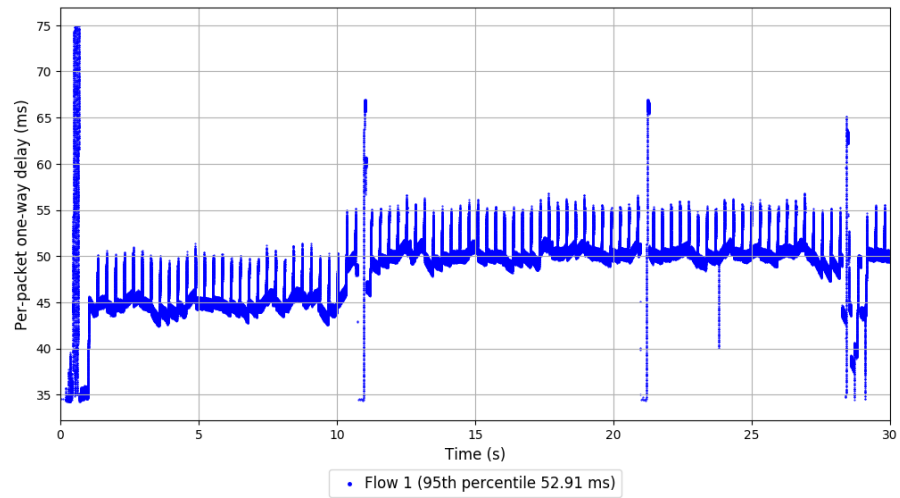
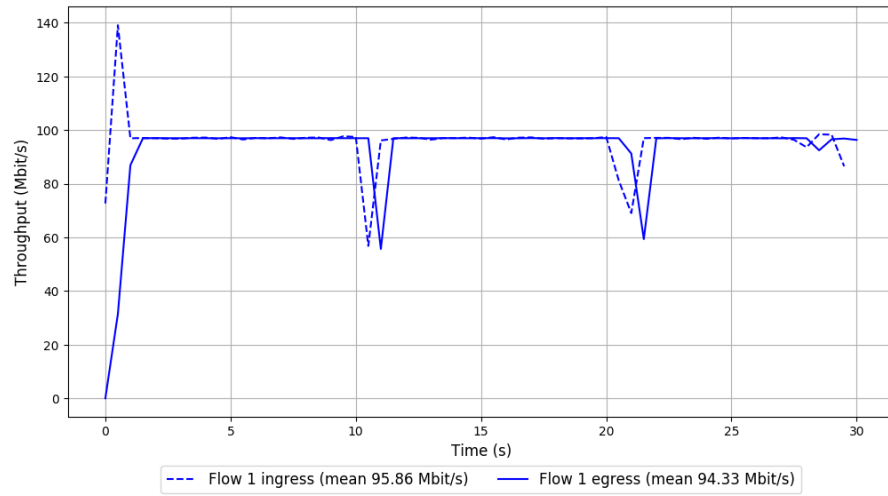
-- Flow 1:

Average throughput: 94.33 Mbit/s

95th percentile per-packet one-way delay: 52.909 ms

Loss rate: 1.55%

Run 9: Report of FillP-Sheep — Data Link



Run 10: Statistics of FillP-Sheep

Start at: 2018-08-01 03:25:31

End at: 2018-08-01 03:26:01

Local clock offset: -0.888 ms

Remote clock offset: 2.46 ms

Below is generated by plot.py at 2018-08-01 03:57:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.47 Mbit/s

95th percentile per-packet one-way delay: 51.125 ms

Loss rate: 0.93%

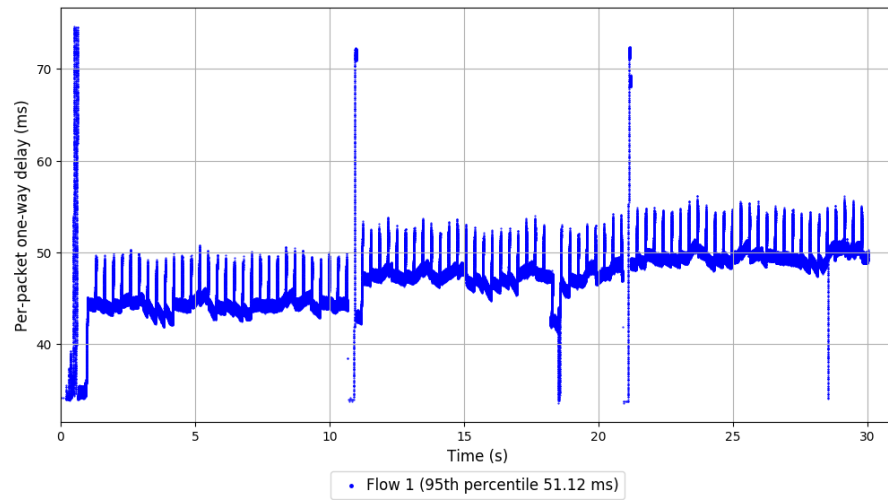
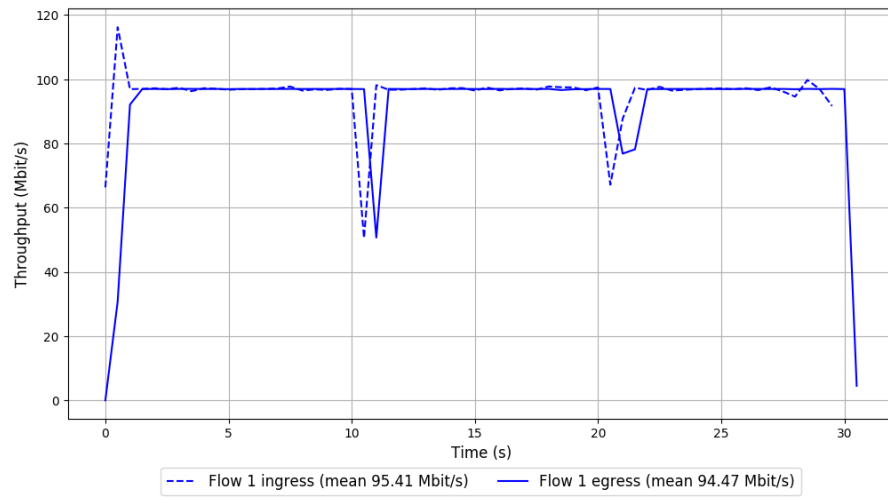
-- Flow 1:

Average throughput: 94.47 Mbit/s

95th percentile per-packet one-way delay: 51.125 ms

Loss rate: 0.93%

Run 10: Report of FillP-Sheep — Data Link

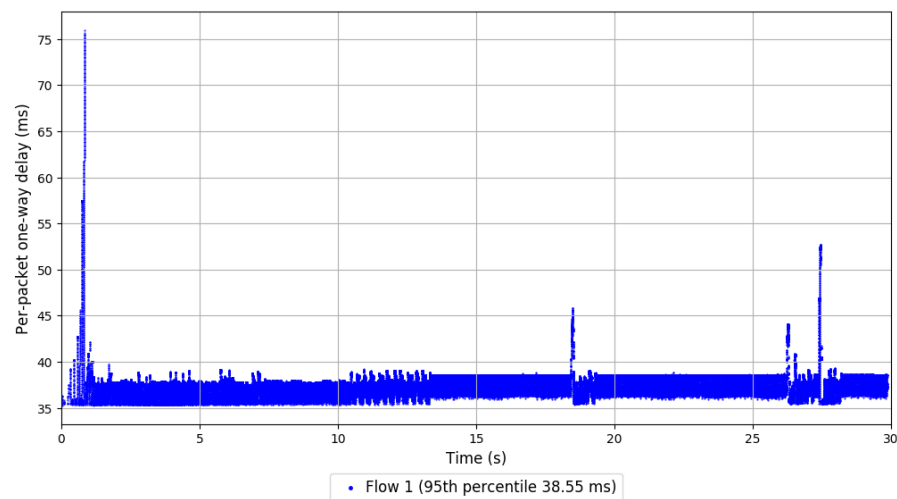
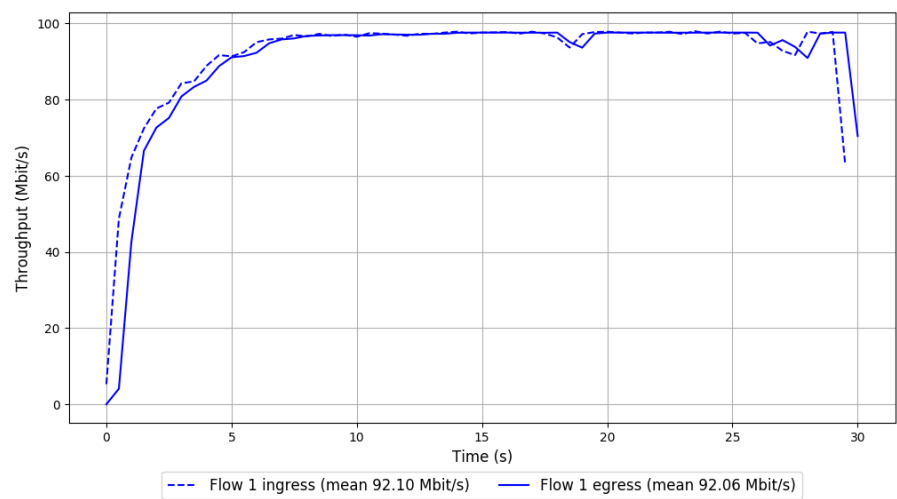


```
Run 1: Statistics of Indigo

Start at: 2018-08-01 00:19:04
End at: 2018-08-01 00:19:34
Local clock offset: 9.001 ms
Remote clock offset: 1.36 ms

# Below is generated by plot.py at 2018-08-01 03:57:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.06 Mbit/s
95th percentile per-packet one-way delay: 38.550 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 92.06 Mbit/s
95th percentile per-packet one-way delay: 38.550 ms
Loss rate: 0.04%
```

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2018-08-01 00:41:22

End at: 2018-08-01 00:41:52

Local clock offset: 4.306 ms

Remote clock offset: 1.316 ms

Below is generated by plot.py at 2018-08-01 03:57:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.64 Mbit/s

95th percentile per-packet one-way delay: 38.309 ms

Loss rate: 0.01%

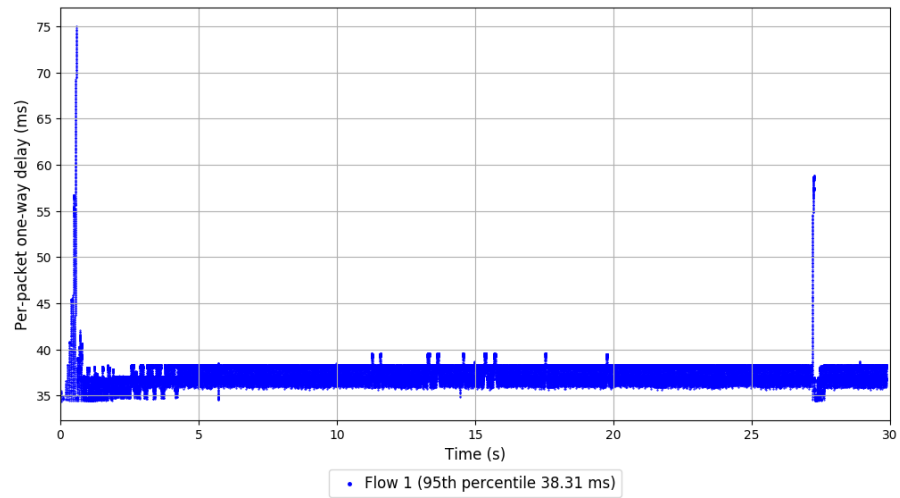
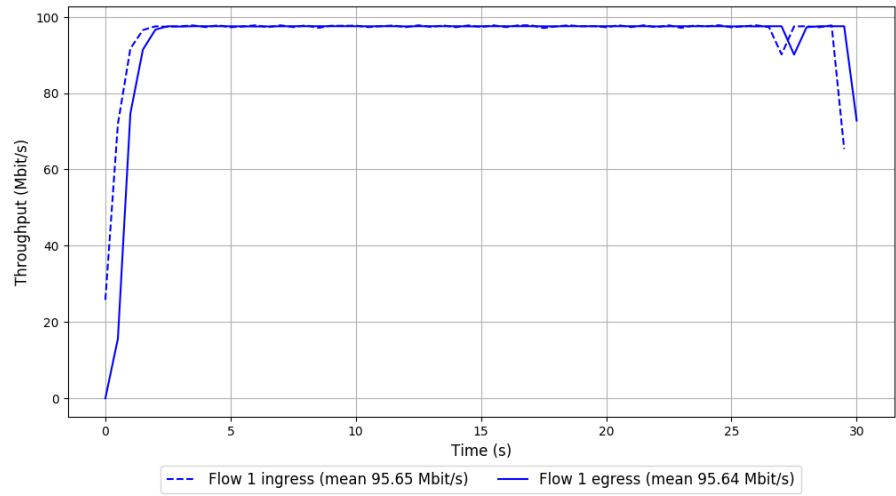
-- Flow 1:

Average throughput: 95.64 Mbit/s

95th percentile per-packet one-way delay: 38.309 ms

Loss rate: 0.01%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-08-01 01:03:45

End at: 2018-08-01 01:04:15

Local clock offset: 2.539 ms

Remote clock offset: 0.918 ms

Below is generated by plot.py at 2018-08-01 03:57:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.17 Mbit/s

95th percentile per-packet one-way delay: 38.231 ms

Loss rate: 0.02%

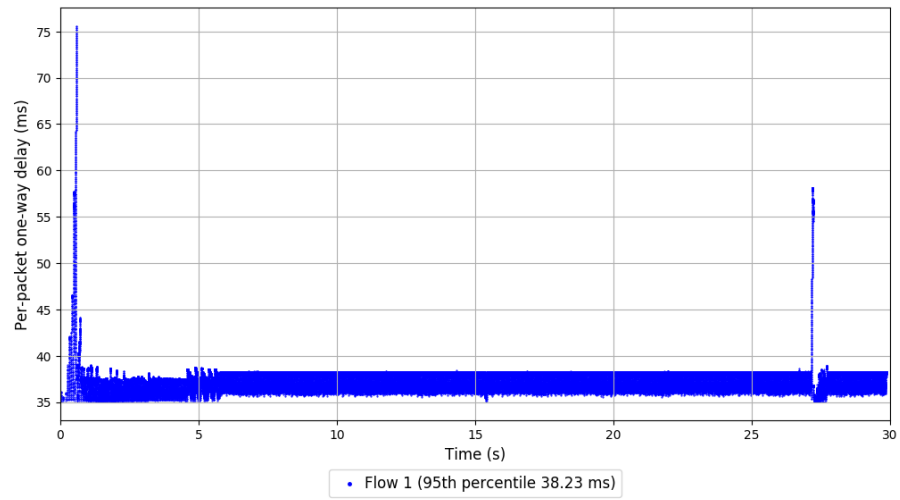
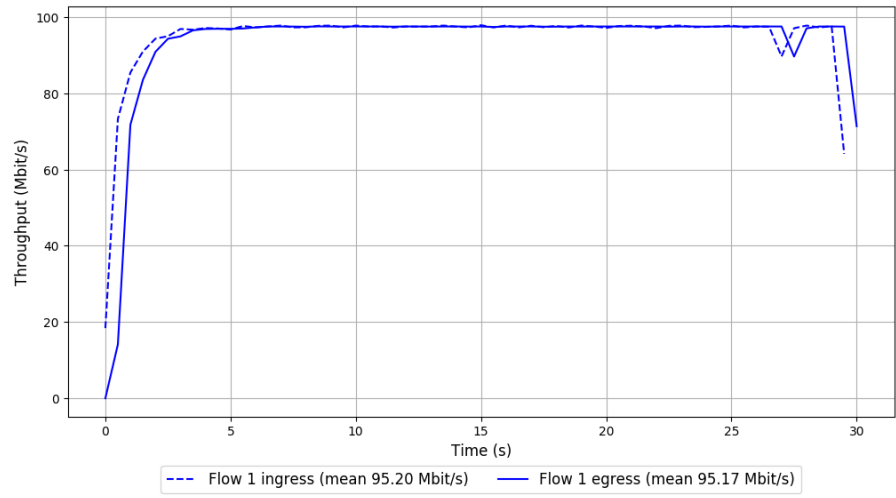
-- Flow 1:

Average throughput: 95.17 Mbit/s

95th percentile per-packet one-way delay: 38.231 ms

Loss rate: 0.02%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-08-01 01:26:03

End at: 2018-08-01 01:26:34

Local clock offset: 2.186 ms

Remote clock offset: 0.048 ms

Below is generated by plot.py at 2018-08-01 03:57:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.09 Mbit/s

95th percentile per-packet one-way delay: 38.168 ms

Loss rate: 0.00%

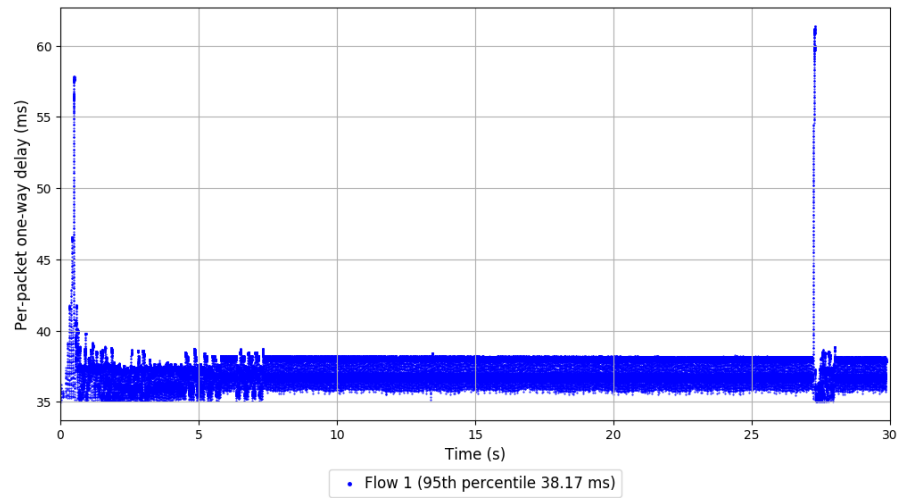
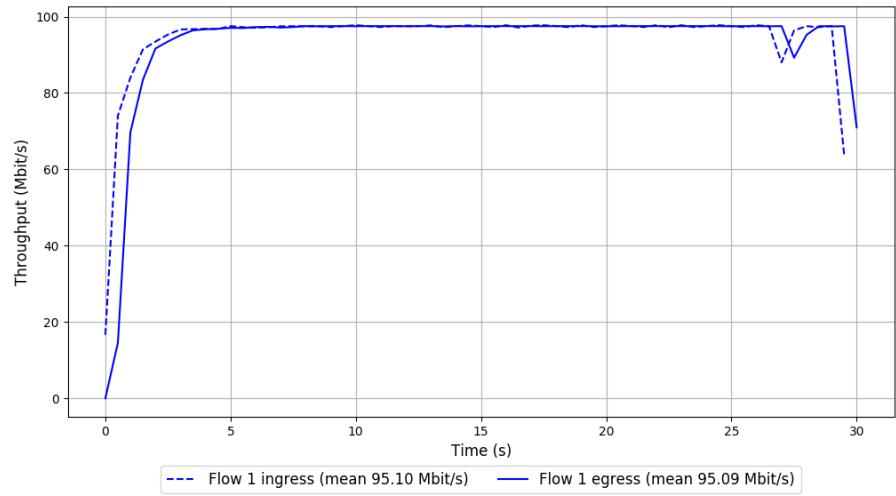
-- Flow 1:

Average throughput: 95.09 Mbit/s

95th percentile per-packet one-way delay: 38.168 ms

Loss rate: 0.00%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-08-01 01:48:22

End at: 2018-08-01 01:48:52

Local clock offset: 1.491 ms

Remote clock offset: 1.712 ms

Below is generated by plot.py at 2018-08-01 03:57:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.75 Mbit/s

95th percentile per-packet one-way delay: 39.438 ms

Loss rate: 0.01%

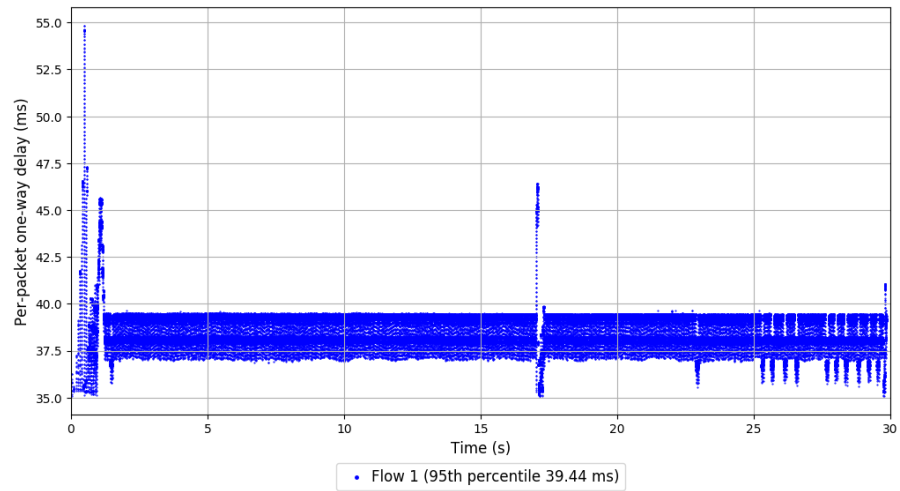
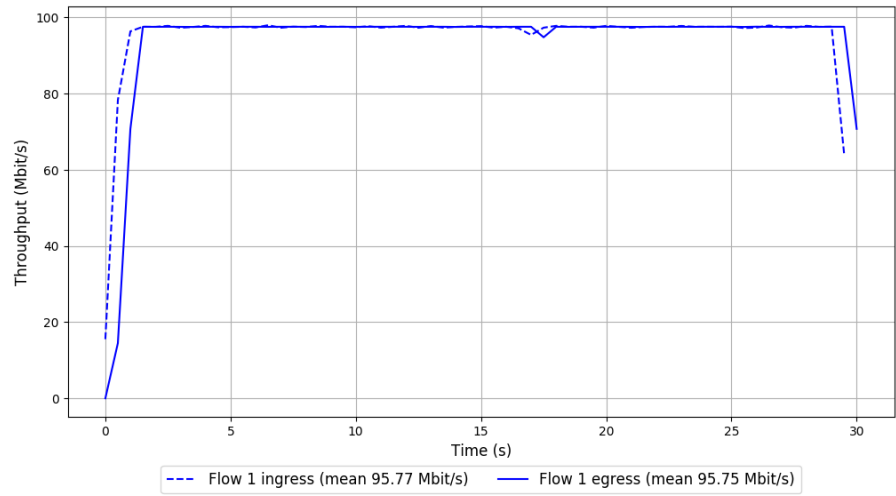
-- Flow 1:

Average throughput: 95.75 Mbit/s

95th percentile per-packet one-way delay: 39.438 ms

Loss rate: 0.01%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2018-08-01 02:10:41

End at: 2018-08-01 02:11:11

Local clock offset: 0.722 ms

Remote clock offset: 2.974 ms

Below is generated by plot.py at 2018-08-01 03:57:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.38 Mbit/s

95th percentile per-packet one-way delay: 39.418 ms

Loss rate: 0.00%

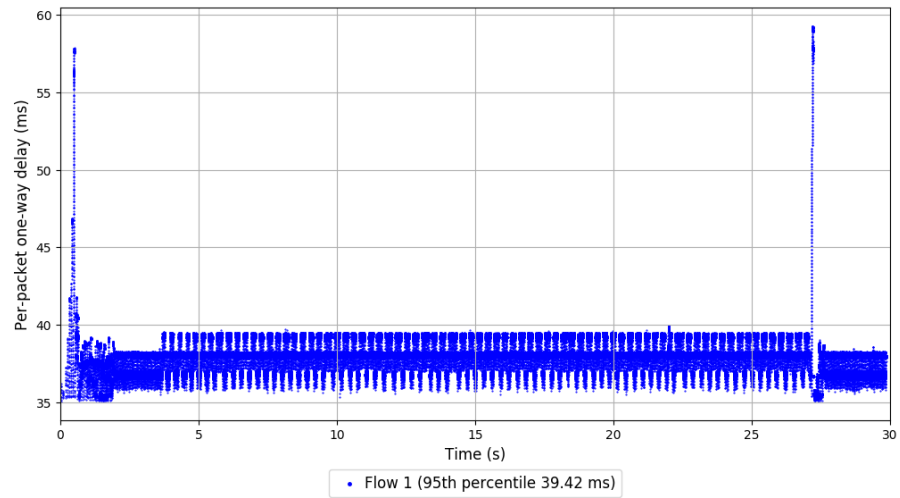
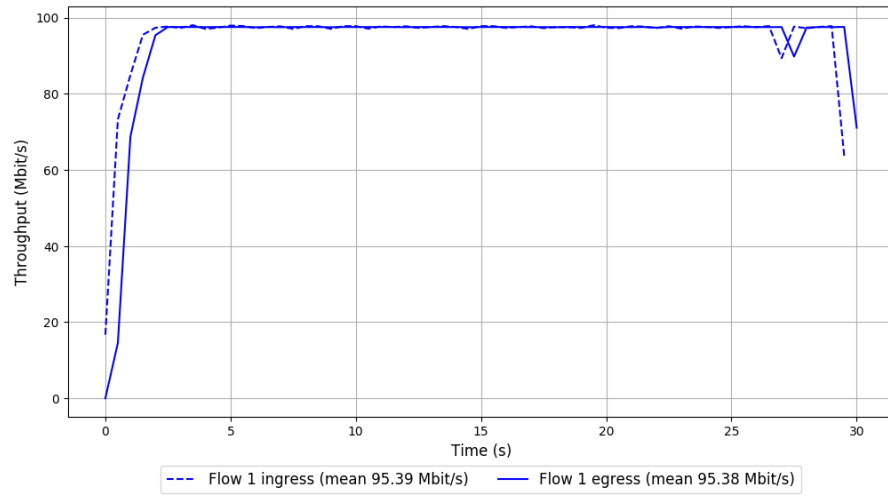
-- Flow 1:

Average throughput: 95.38 Mbit/s

95th percentile per-packet one-way delay: 39.418 ms

Loss rate: 0.00%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2018-08-01 02:33:01

End at: 2018-08-01 02:33:31

Local clock offset: 0.38 ms

Remote clock offset: 1.914 ms

Below is generated by plot.py at 2018-08-01 03:57:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.79 Mbit/s

95th percentile per-packet one-way delay: 38.263 ms

Loss rate: 0.00%

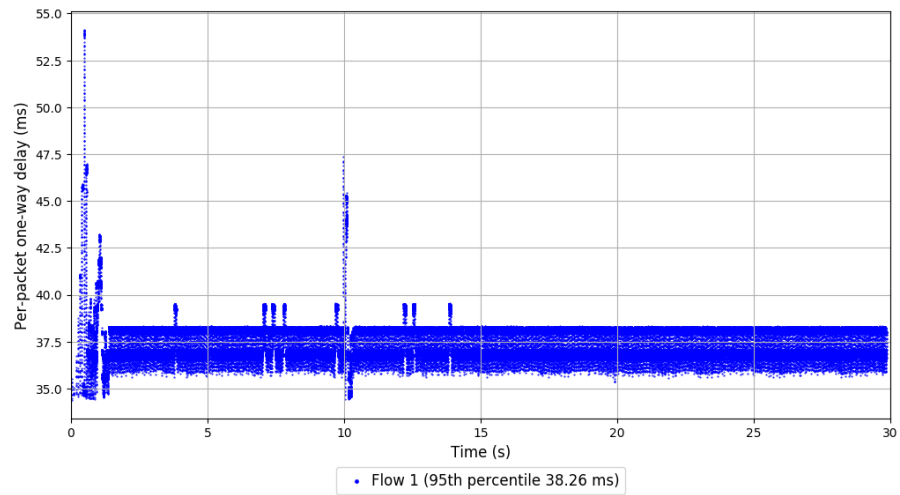
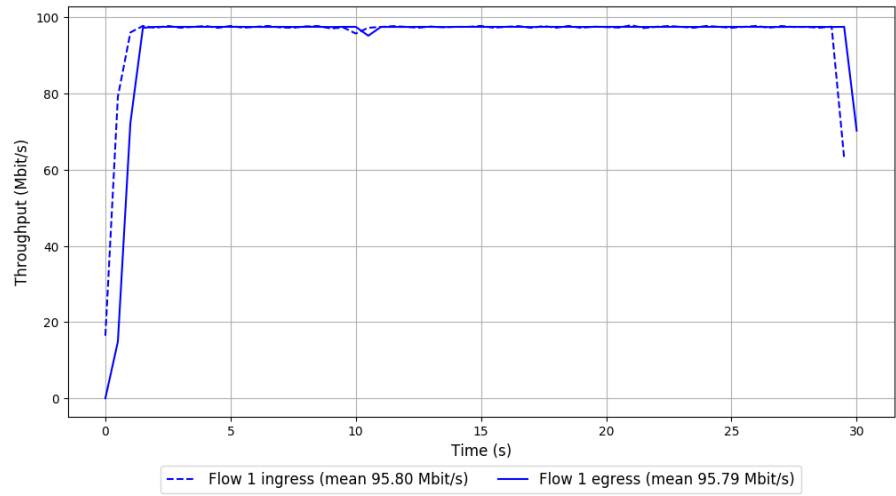
-- Flow 1:

Average throughput: 95.79 Mbit/s

95th percentile per-packet one-way delay: 38.263 ms

Loss rate: 0.00%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2018-08-01 02:55:18

End at: 2018-08-01 02:55:48

Local clock offset: 0.311 ms

Remote clock offset: 1.527 ms

Below is generated by plot.py at 2018-08-01 03:58:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.16 Mbit/s

95th percentile per-packet one-way delay: 38.261 ms

Loss rate: 0.02%

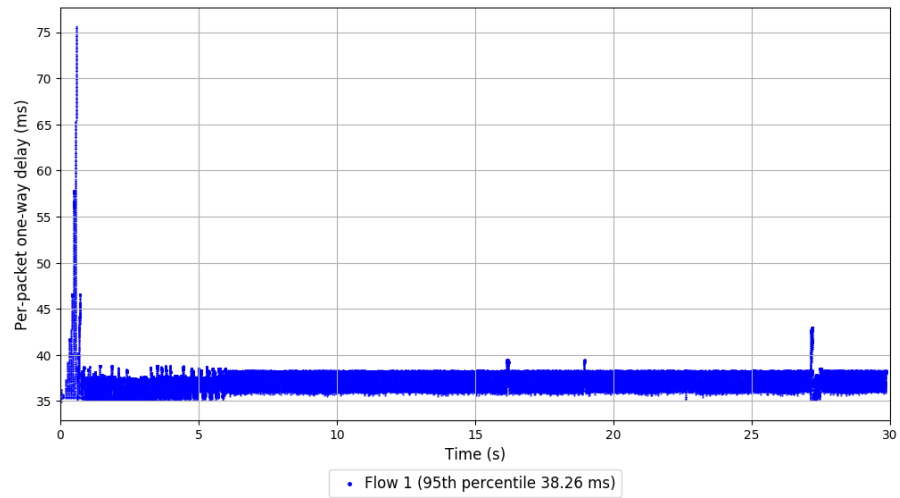
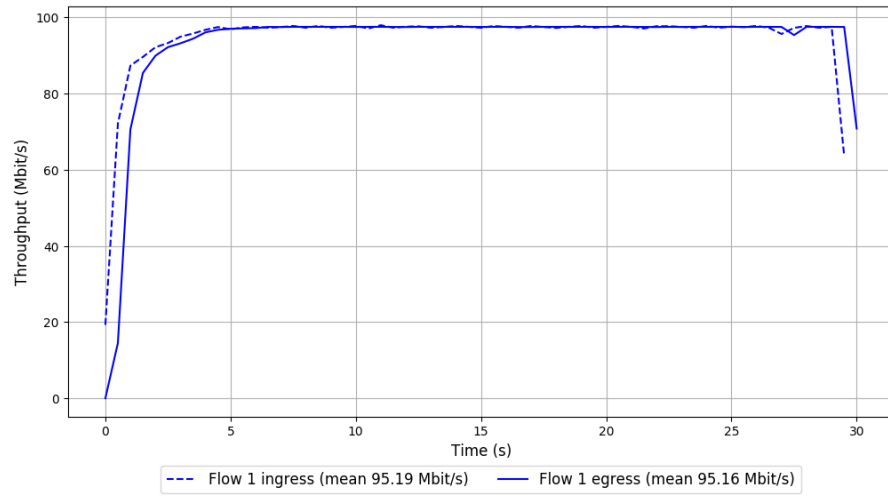
-- Flow 1:

Average throughput: 95.16 Mbit/s

95th percentile per-packet one-way delay: 38.261 ms

Loss rate: 0.02%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2018-08-01 03:17:35

End at: 2018-08-01 03:18:05

Local clock offset: 0.112 ms

Remote clock offset: 0.498 ms

Below is generated by plot.py at 2018-08-01 03:58:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.81 Mbit/s

95th percentile per-packet one-way delay: 38.588 ms

Loss rate: 0.00%

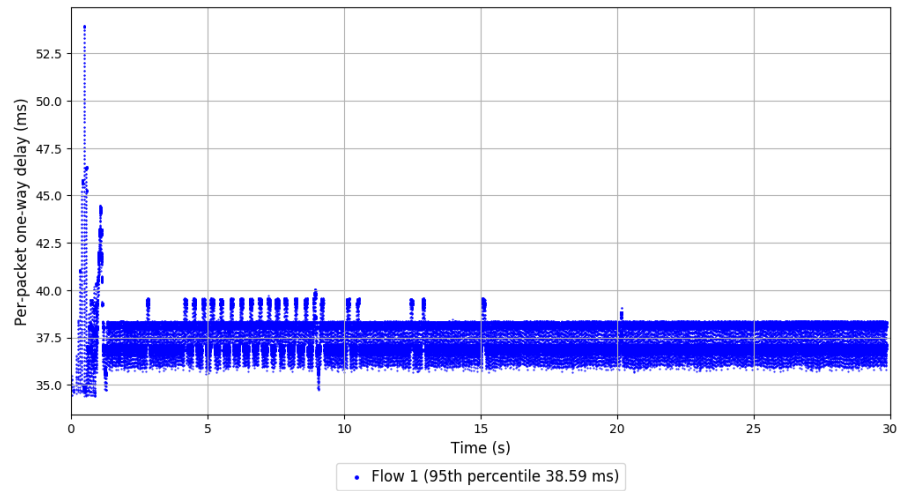
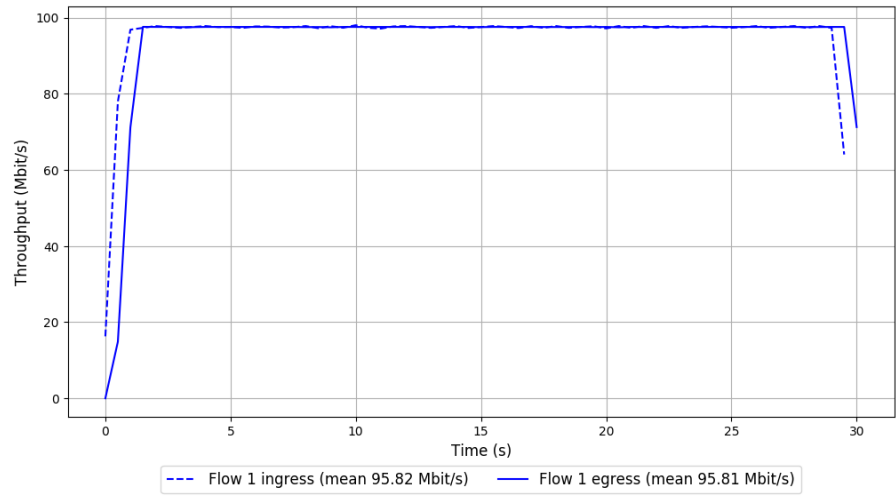
-- Flow 1:

Average throughput: 95.81 Mbit/s

95th percentile per-packet one-way delay: 38.588 ms

Loss rate: 0.00%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-08-01 03:39:54

End at: 2018-08-01 03:40:24

Local clock offset: -3.054 ms

Remote clock offset: 9.395 ms

Below is generated by plot.py at 2018-08-01 03:58:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.60 Mbit/s

95th percentile per-packet one-way delay: 39.248 ms

Loss rate: 0.03%

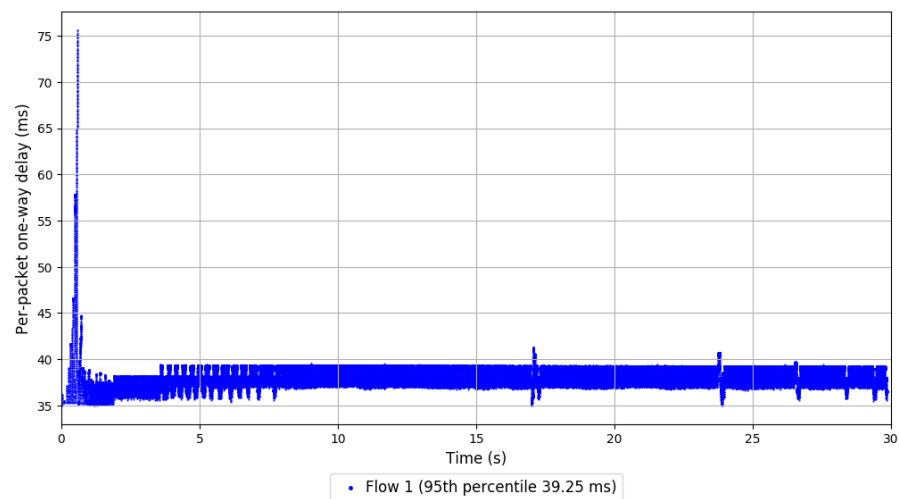
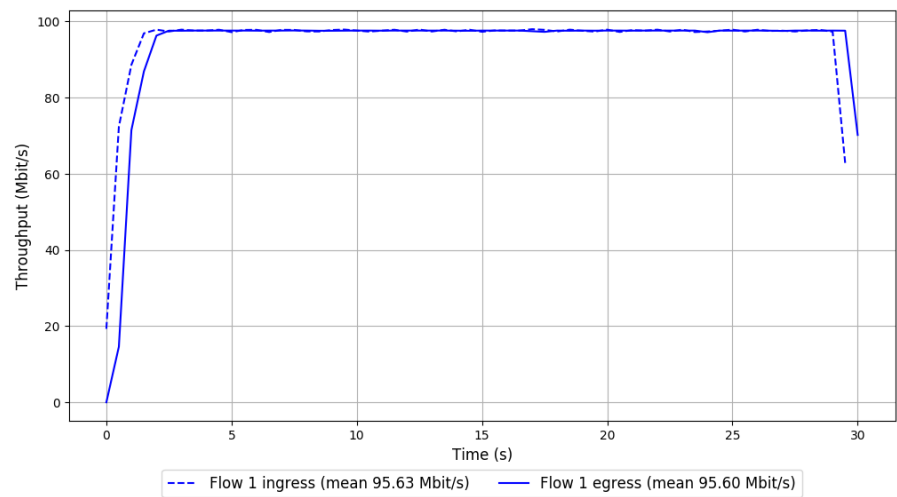
-- Flow 1:

Average throughput: 95.60 Mbit/s

95th percentile per-packet one-way delay: 39.248 ms

Loss rate: 0.03%

Run 10: Report of Indigo — Data Link

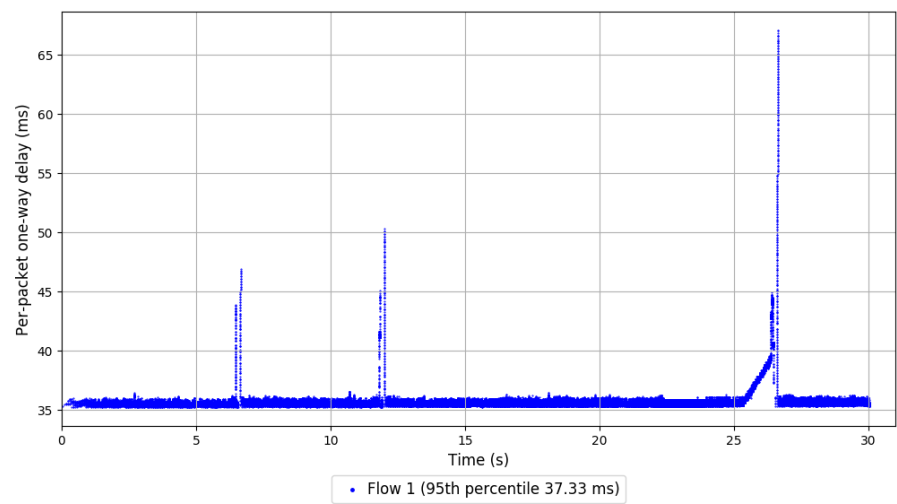
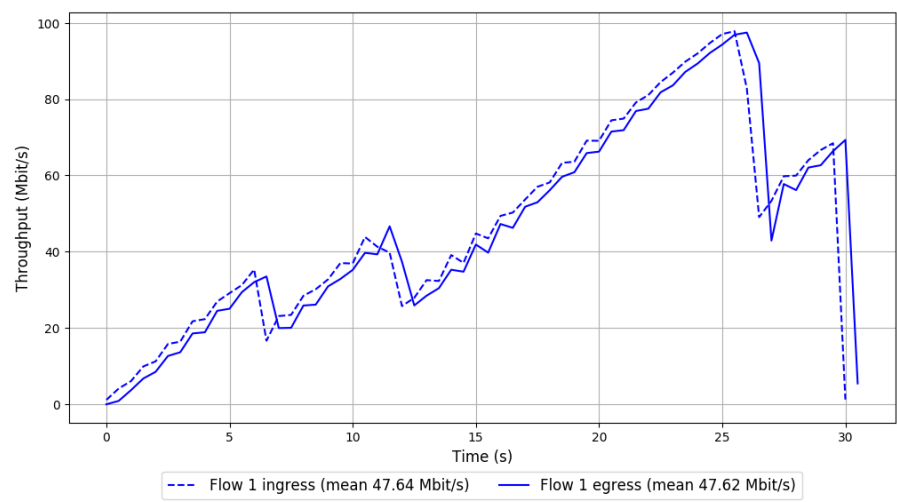


```
Run 1: Statistics of LEDBAT

Start at: 2018-08-01 00:12:34
End at: 2018-08-01 00:13:04
Local clock offset: 7.979 ms
Remote clock offset: 1.836 ms

# Below is generated by plot.py at 2018-08-01 03:58:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 47.62 Mbit/s
95th percentile per-packet one-way delay: 37.327 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 47.62 Mbit/s
95th percentile per-packet one-way delay: 37.327 ms
Loss rate: 0.03%
```


Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-08-01 00:34:52

End at: 2018-08-01 00:35:22

Local clock offset: 4.523 ms

Remote clock offset: 0.708 ms

Below is generated by plot.py at 2018-08-01 03:58:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 55.36 Mbit/s

95th percentile per-packet one-way delay: 54.047 ms

Loss rate: 0.03%

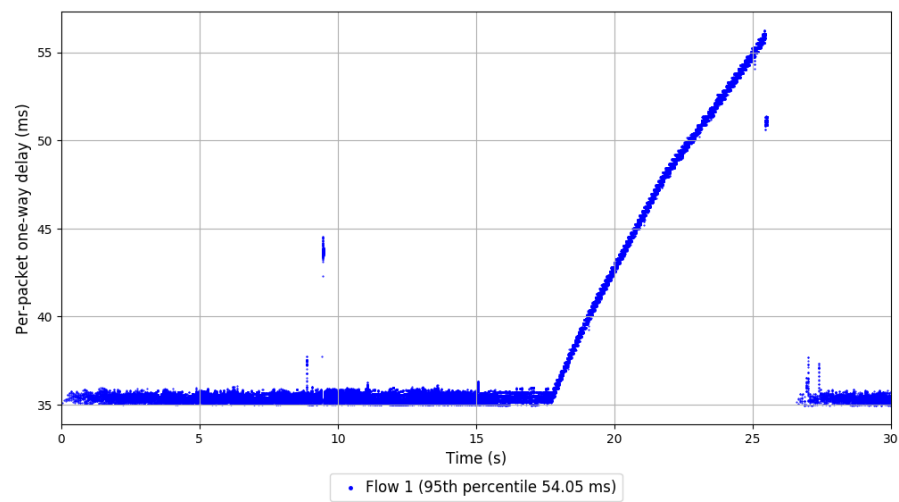
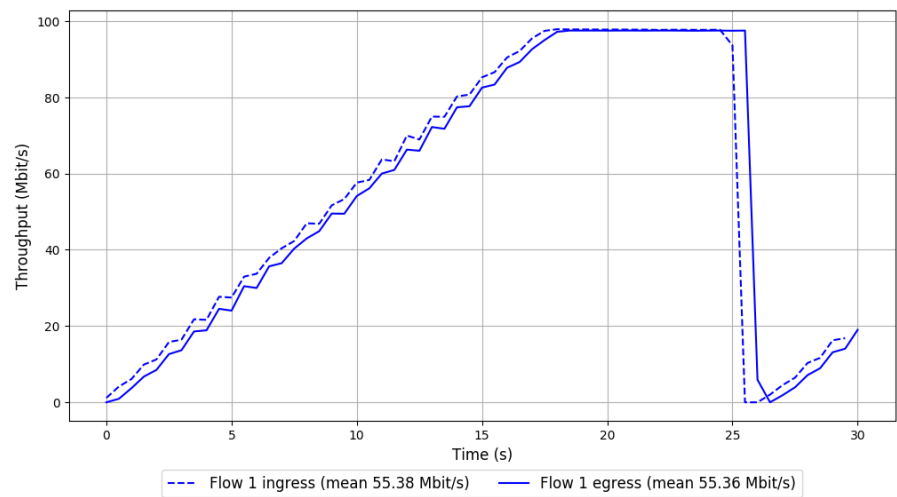
-- Flow 1:

Average throughput: 55.36 Mbit/s

95th percentile per-packet one-way delay: 54.047 ms

Loss rate: 0.03%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-08-01 00:57:10

End at: 2018-08-01 00:57:40

Local clock offset: 3.629 ms

Remote clock offset: 1.141 ms

Below is generated by plot.py at 2018-08-01 03:58:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.37 Mbit/s

95th percentile per-packet one-way delay: 60.054 ms

Loss rate: 0.01%

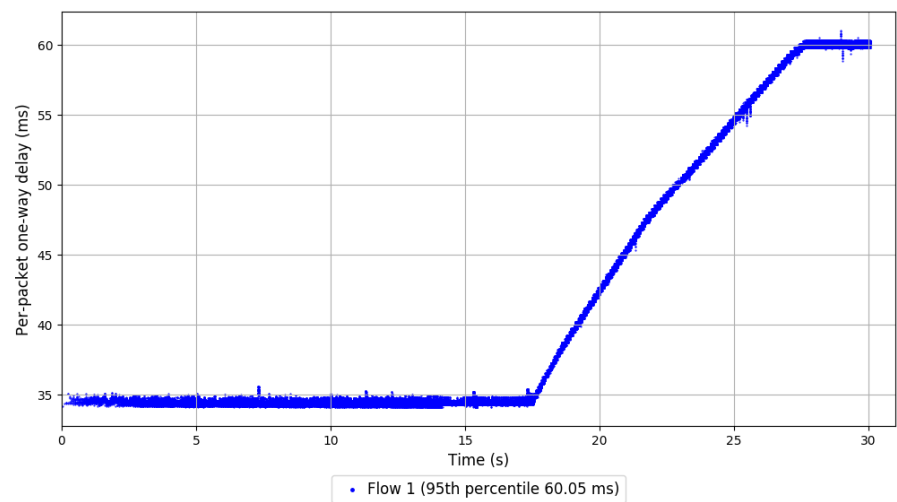
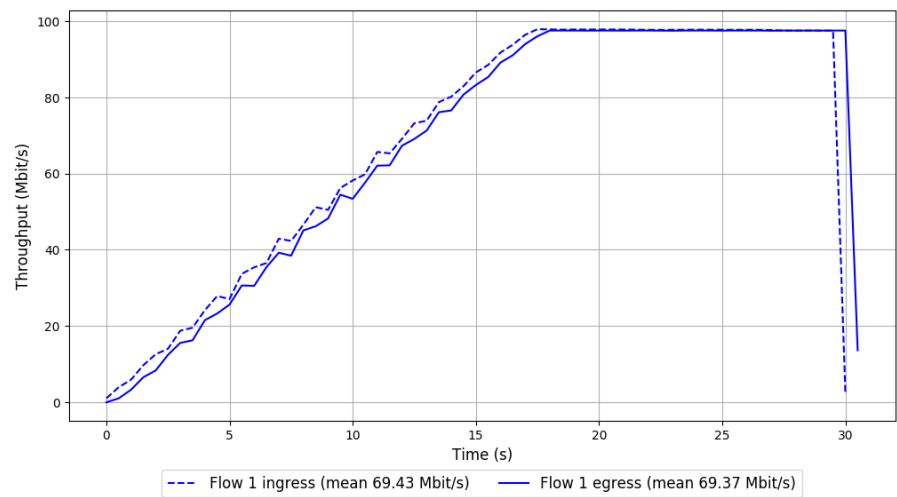
-- Flow 1:

Average throughput: 69.37 Mbit/s

95th percentile per-packet one-way delay: 60.054 ms

Loss rate: 0.01%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-08-01 01:19:32

End at: 2018-08-01 01:20:02

Local clock offset: 2.616 ms

Remote clock offset: 0.192 ms

Below is generated by plot.py at 2018-08-01 03:58:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.61 Mbit/s

95th percentile per-packet one-way delay: 60.612 ms

Loss rate: 0.00%

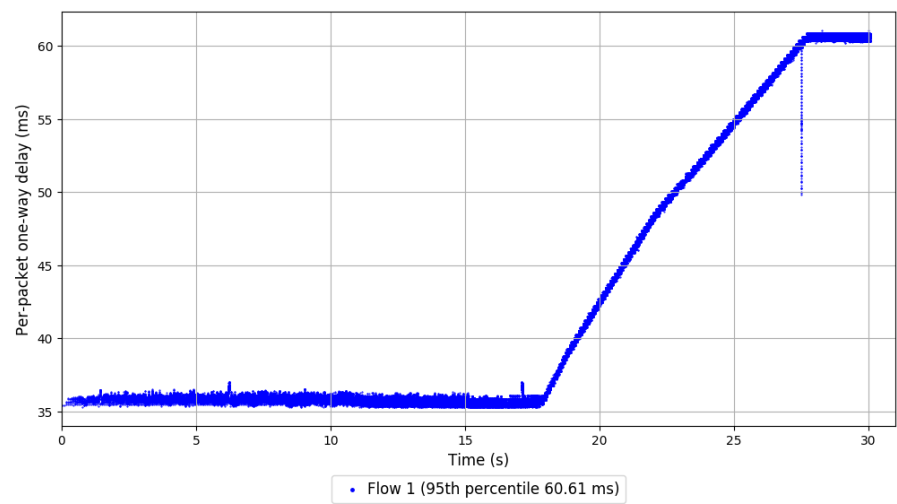
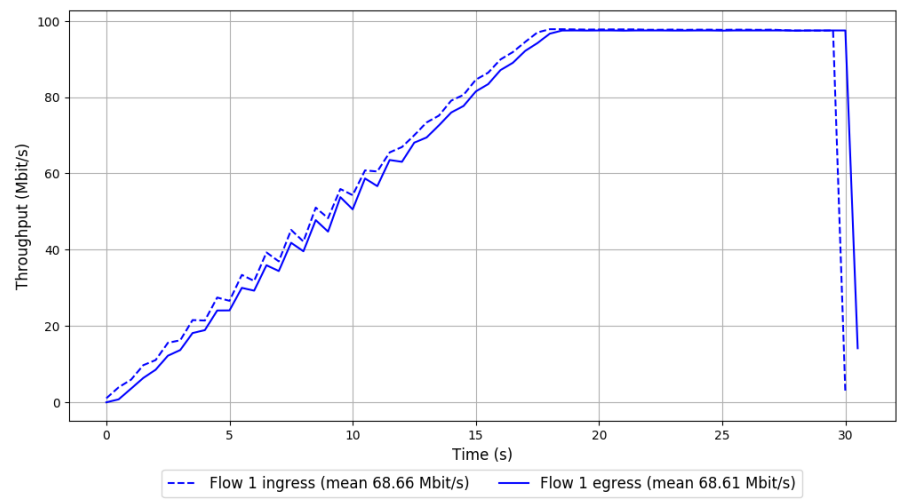
-- Flow 1:

Average throughput: 68.61 Mbit/s

95th percentile per-packet one-way delay: 60.612 ms

Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-08-01 01:41:52

End at: 2018-08-01 01:42:22

Local clock offset: 1.39 ms

Remote clock offset: 0.369 ms

Below is generated by plot.py at 2018-08-01 03:58:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.63 Mbit/s

95th percentile per-packet one-way delay: 60.221 ms

Loss rate: 0.00%

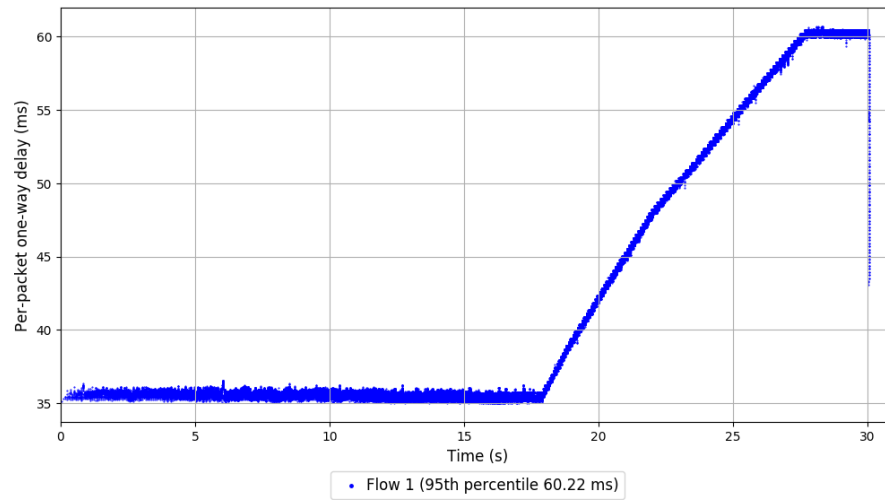
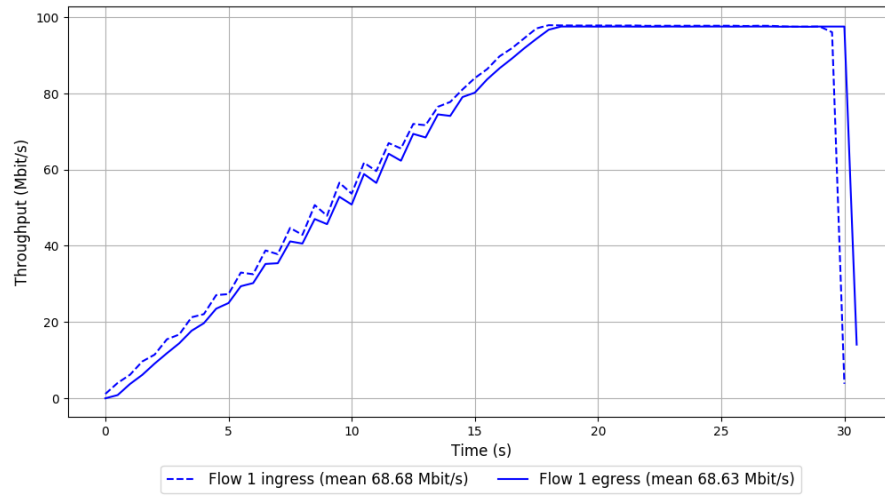
-- Flow 1:

Average throughput: 68.63 Mbit/s

95th percentile per-packet one-way delay: 60.221 ms

Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-08-01 02:04:10

End at: 2018-08-01 02:04:40

Local clock offset: 0.694 ms

Remote clock offset: 2.953 ms

Below is generated by plot.py at 2018-08-01 03:58:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.30 Mbit/s

95th percentile per-packet one-way delay: 60.436 ms

Loss rate: 0.00%

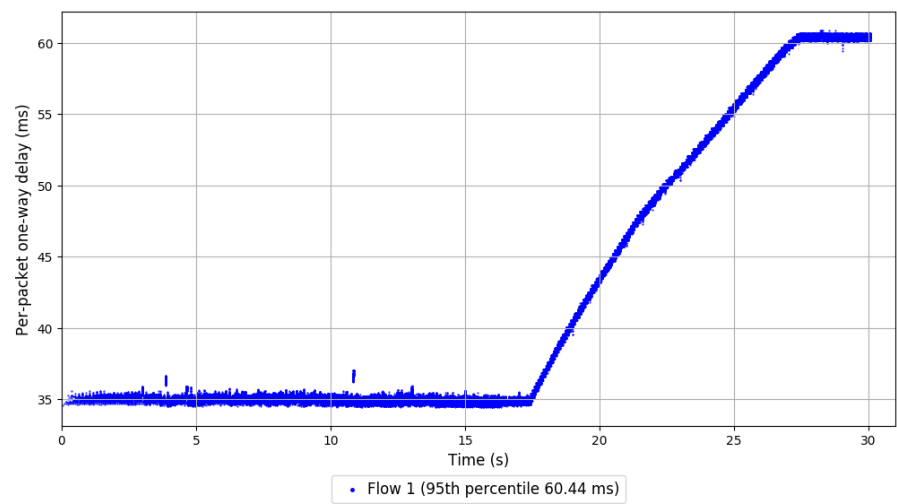
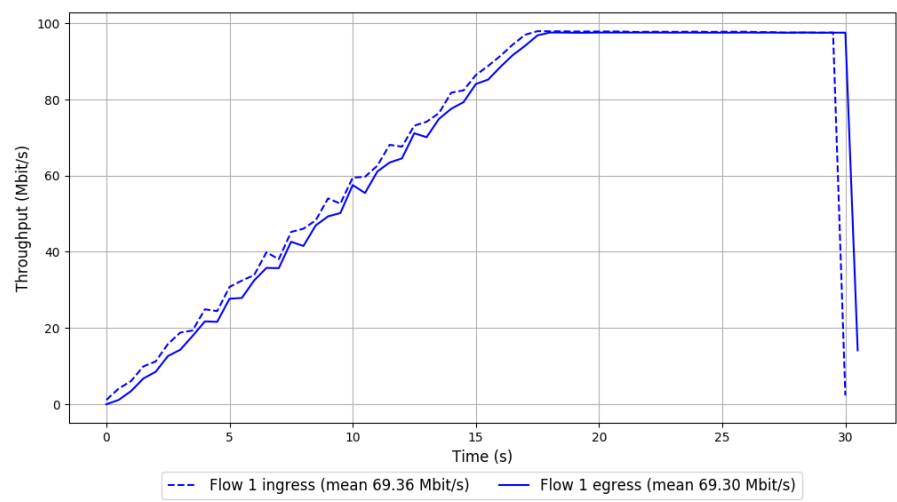
-- Flow 1:

Average throughput: 69.30 Mbit/s

95th percentile per-packet one-way delay: 60.436 ms

Loss rate: 0.00%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-08-01 02:26:31

End at: 2018-08-01 02:27:01

Local clock offset: 0.602 ms

Remote clock offset: 2.224 ms

Below is generated by plot.py at 2018-08-01 03:58:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.55 Mbit/s

95th percentile per-packet one-way delay: 60.389 ms

Loss rate: 0.00%

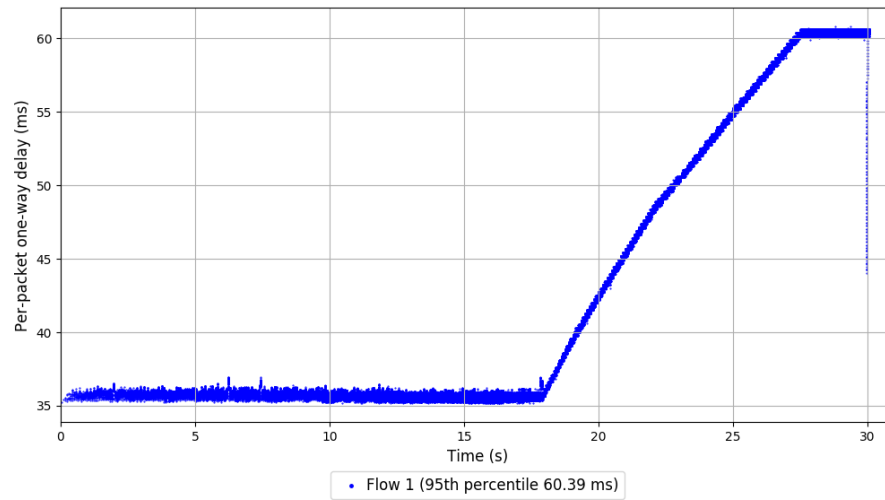
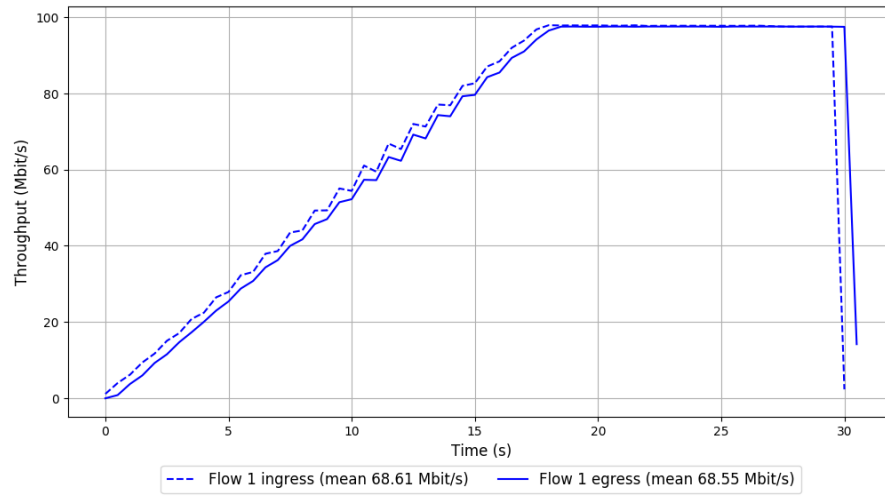
-- Flow 1:

Average throughput: 68.55 Mbit/s

95th percentile per-packet one-way delay: 60.389 ms

Loss rate: 0.00%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-08-01 02:48:50

End at: 2018-08-01 02:49:20

Local clock offset: 0.278 ms

Remote clock offset: 1.697 ms

Below is generated by plot.py at 2018-08-01 03:58:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.65 Mbit/s

95th percentile per-packet one-way delay: 60.514 ms

Loss rate: 0.00%

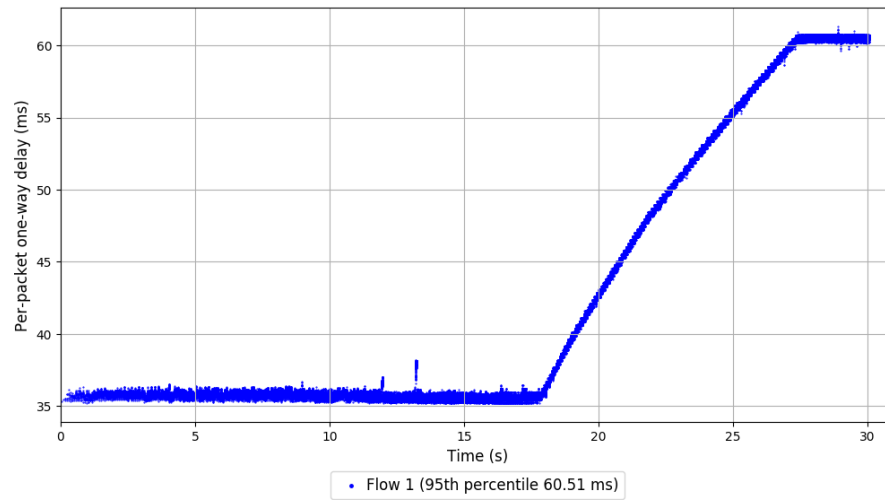
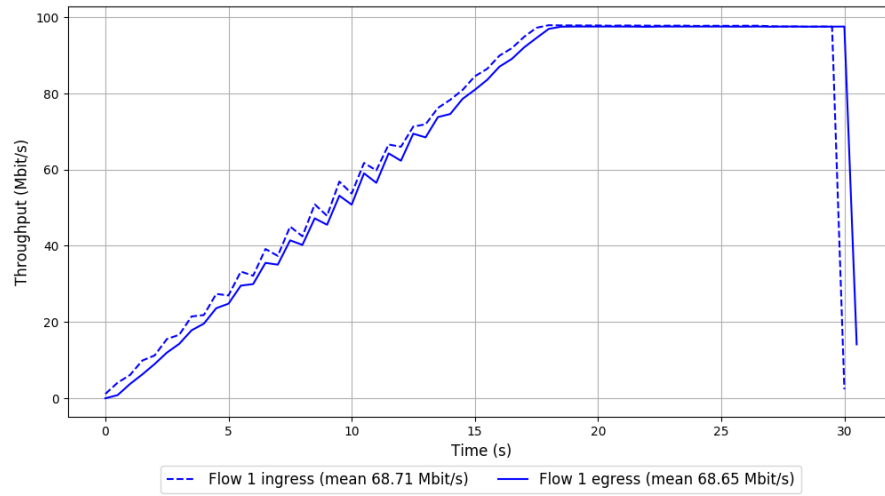
-- Flow 1:

Average throughput: 68.65 Mbit/s

95th percentile per-packet one-way delay: 60.514 ms

Loss rate: 0.00%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-08-01 03:11:05

End at: 2018-08-01 03:11:35

Local clock offset: 0.173 ms

Remote clock offset: 0.866 ms

Below is generated by plot.py at 2018-08-01 03:58:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.19 Mbit/s

95th percentile per-packet one-way delay: 60.400 ms

Loss rate: 0.00%

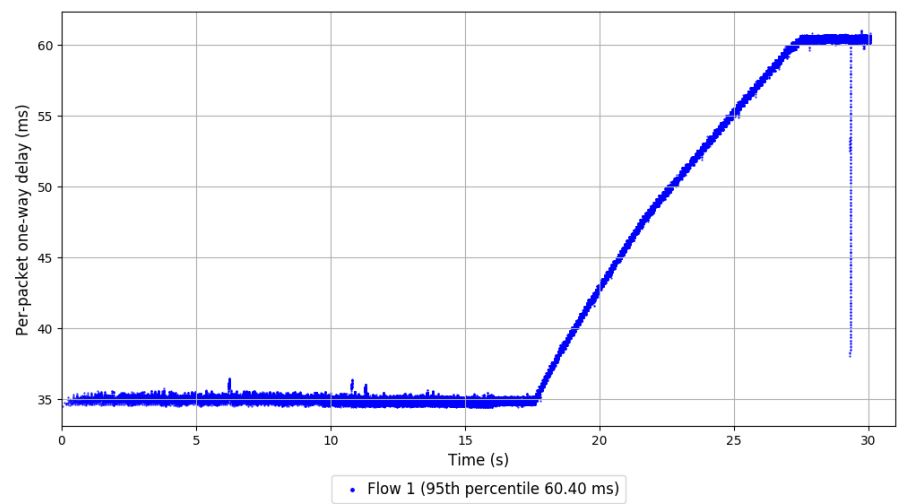
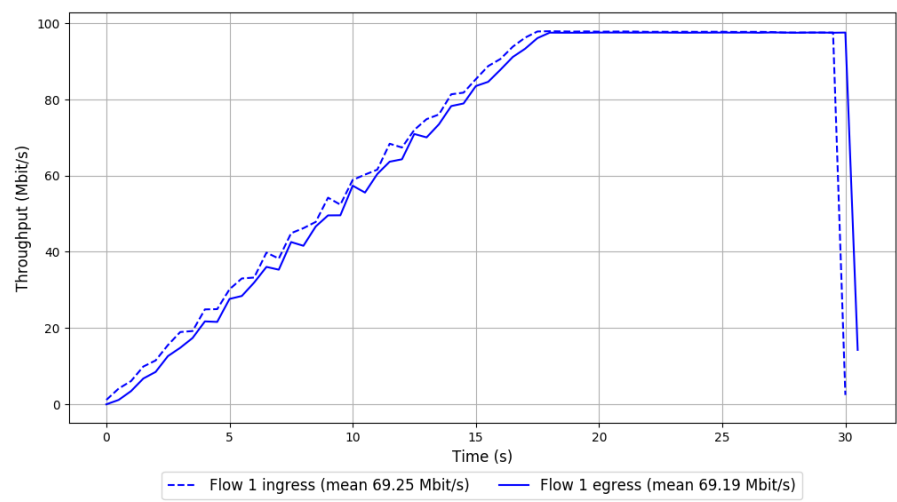
-- Flow 1:

Average throughput: 69.19 Mbit/s

95th percentile per-packet one-way delay: 60.400 ms

Loss rate: 0.00%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-08-01 03:33:23

End at: 2018-08-01 03:33:53

Local clock offset: -2.36 ms

Remote clock offset: 7.333 ms

Below is generated by plot.py at 2018-08-01 03:58:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.26 Mbit/s

95th percentile per-packet one-way delay: 60.042 ms

Loss rate: 0.00%

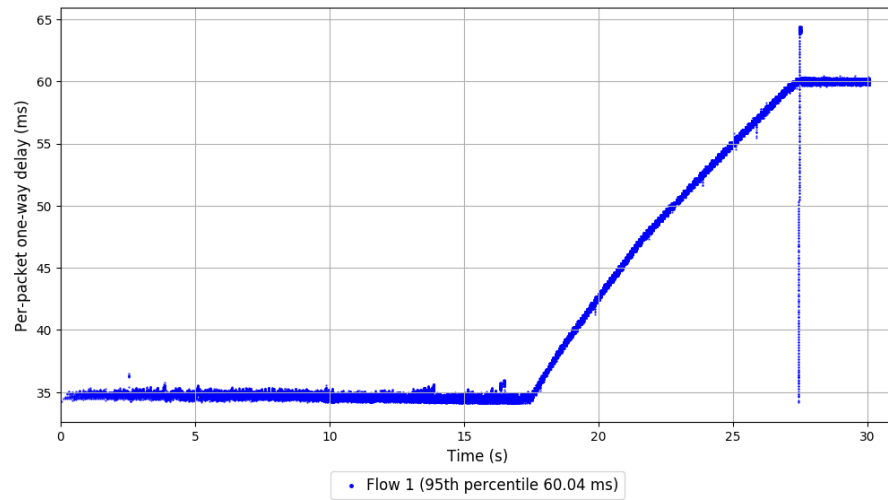
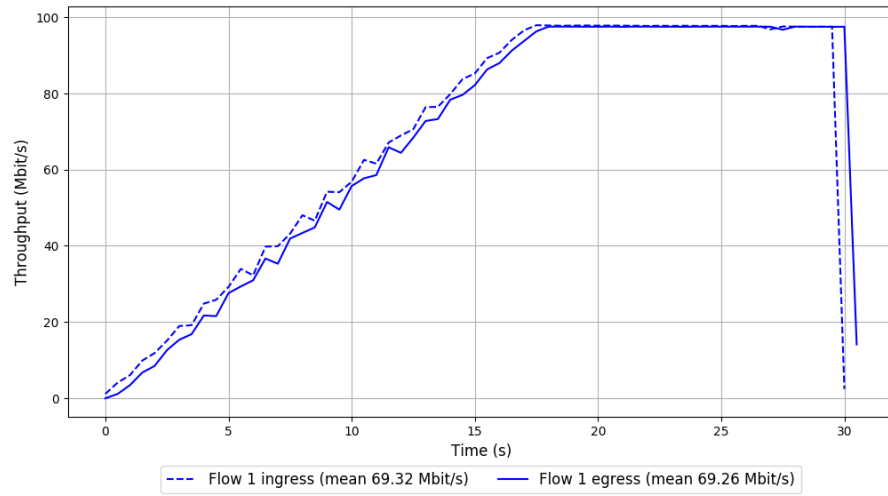
-- Flow 1:

Average throughput: 69.26 Mbit/s

95th percentile per-packet one-way delay: 60.042 ms

Loss rate: 0.00%

Run 10: Report of LEDBAT — Data Link

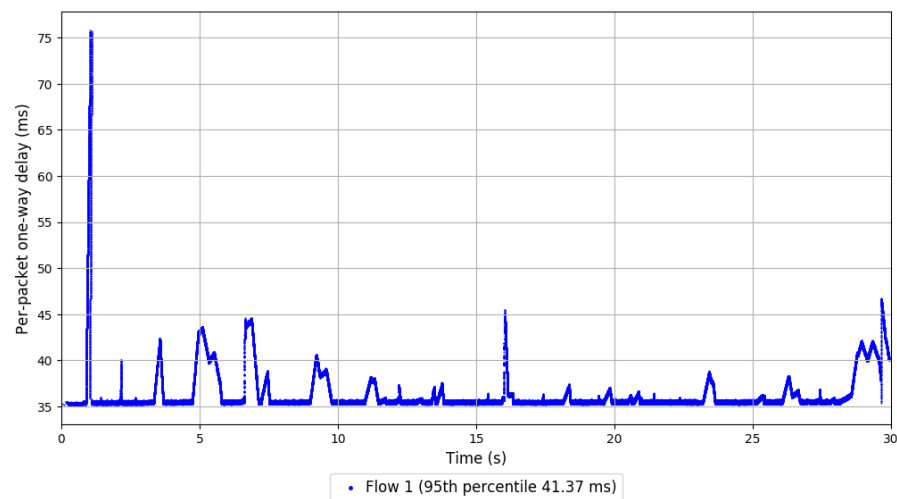
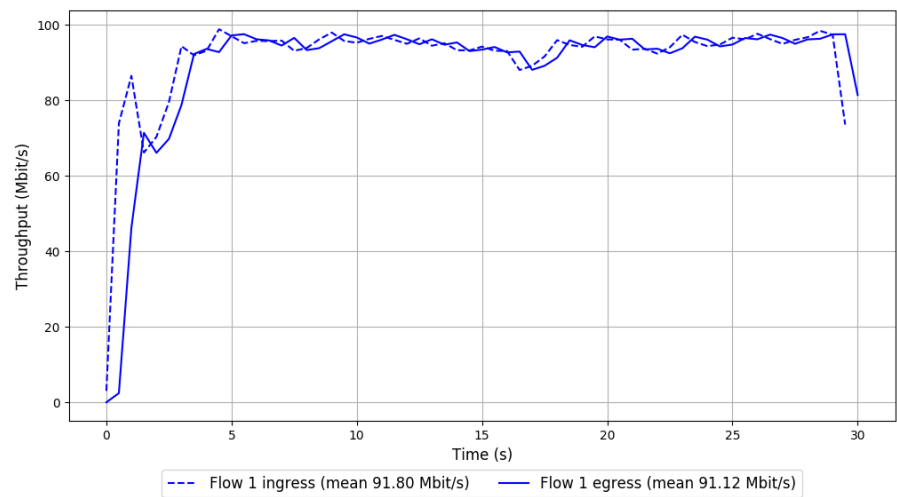


```
Run 1: Statistics of PCC-Allegro

Start at: 2018-08-01 00:07:22
End at: 2018-08-01 00:07:52
Local clock offset: 7.752 ms
Remote clock offset: 2.373 ms

# Below is generated by plot.py at 2018-08-01 03:59:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.12 Mbit/s
95th percentile per-packet one-way delay: 41.367 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 91.12 Mbit/s
95th percentile per-packet one-way delay: 41.367 ms
Loss rate: 0.73%
```

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-08-01 00:29:37

End at: 2018-08-01 00:30:07

Local clock offset: 5.618 ms

Remote clock offset: 0.562 ms

Below is generated by plot.py at 2018-08-01 03:59:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.31 Mbit/s

95th percentile per-packet one-way delay: 42.398 ms

Loss rate: 0.91%

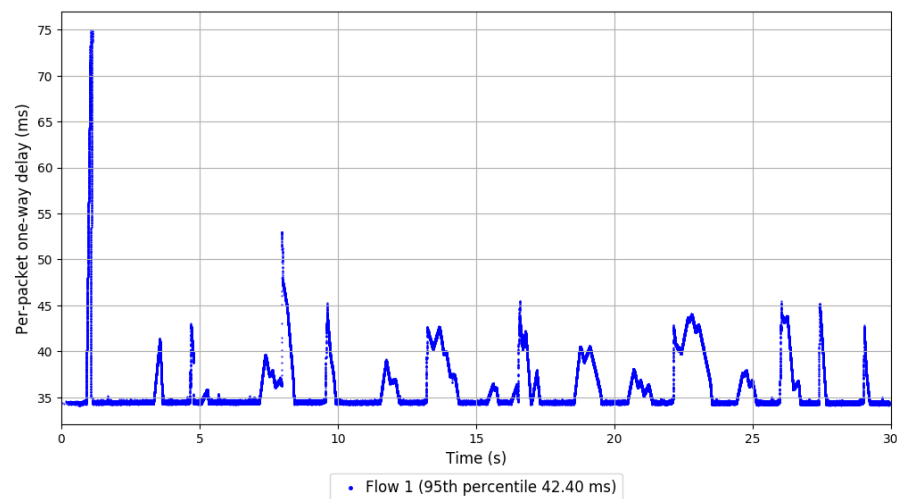
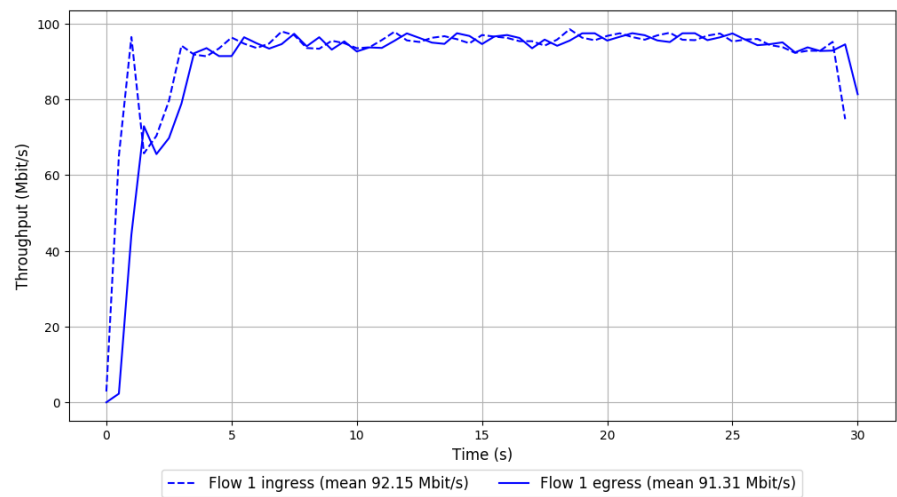
-- Flow 1:

Average throughput: 91.31 Mbit/s

95th percentile per-packet one-way delay: 42.398 ms

Loss rate: 0.91%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-08-01 00:51:55

End at: 2018-08-01 00:52:25

Local clock offset: 5.12 ms

Remote clock offset: 1.325 ms

Below is generated by plot.py at 2018-08-01 03:59:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.62 Mbit/s

95th percentile per-packet one-way delay: 41.662 ms

Loss rate: 0.72%

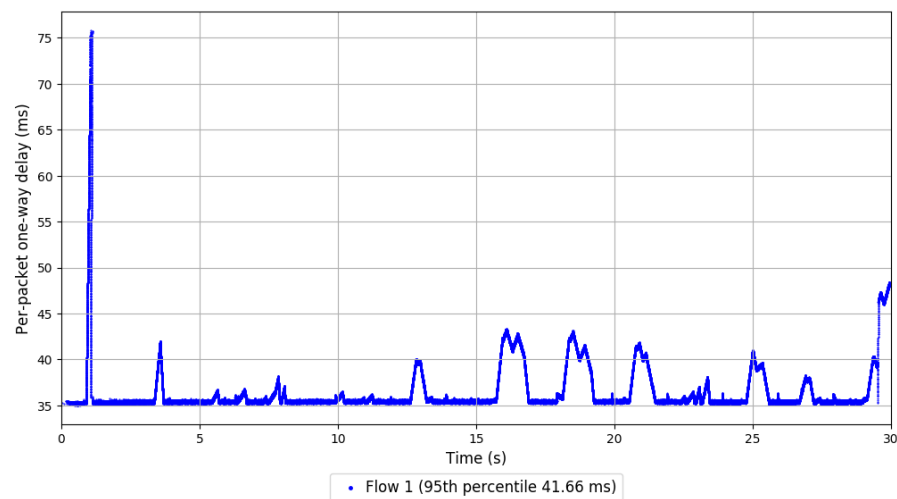
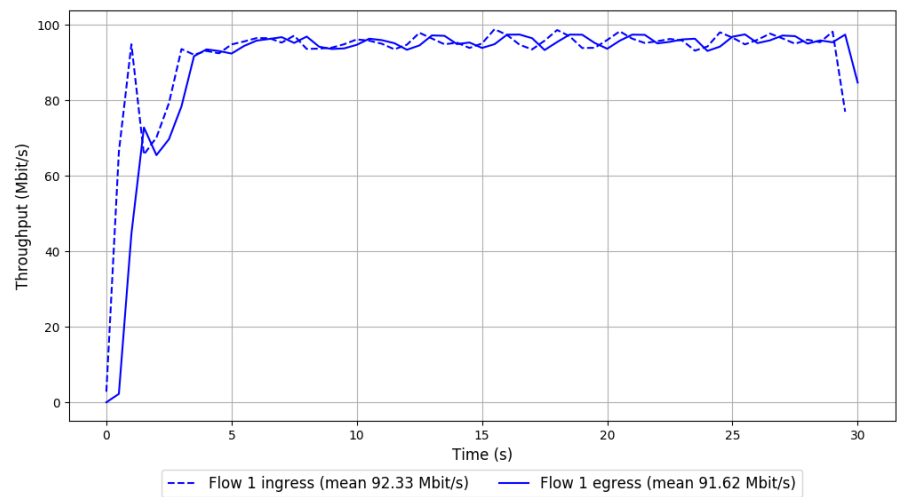
-- Flow 1:

Average throughput: 91.62 Mbit/s

95th percentile per-packet one-way delay: 41.662 ms

Loss rate: 0.72%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-08-01 01:14:17

End at: 2018-08-01 01:14:47

Local clock offset: 2.455 ms

Remote clock offset: 0.35 ms

Below is generated by plot.py at 2018-08-01 03:59:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.86 Mbit/s

95th percentile per-packet one-way delay: 40.756 ms

Loss rate: 0.74%

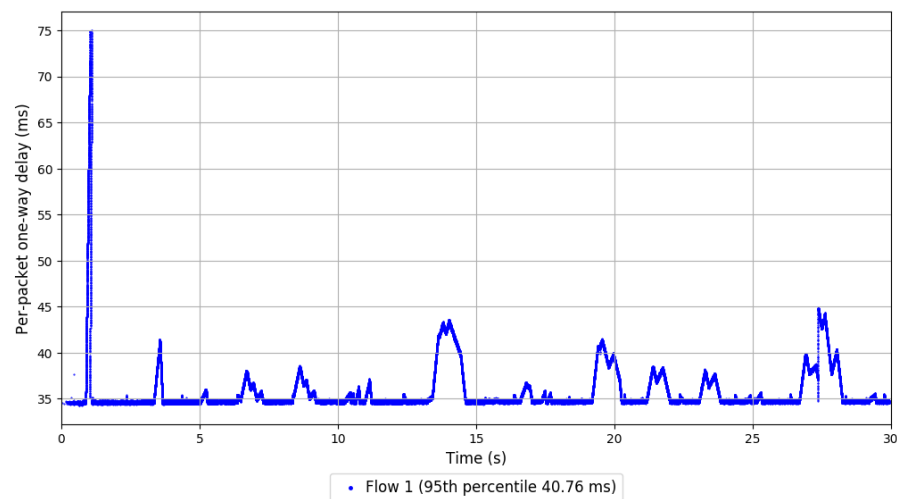
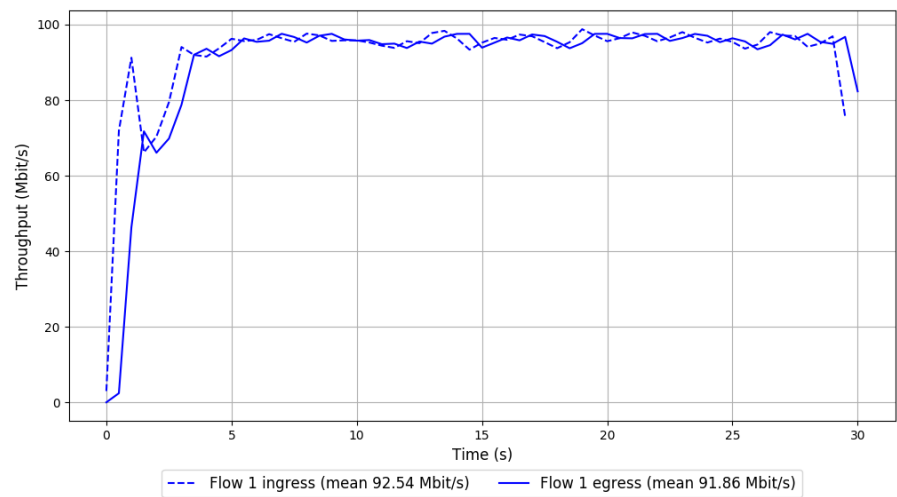
-- Flow 1:

Average throughput: 91.86 Mbit/s

95th percentile per-packet one-way delay: 40.756 ms

Loss rate: 0.74%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-08-01 01:36:36

End at: 2018-08-01 01:37:07

Local clock offset: 1.412 ms

Remote clock offset: 0.031 ms

Below is generated by plot.py at 2018-08-01 04:00:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.70 Mbit/s

95th percentile per-packet one-way delay: 45.601 ms

Loss rate: 0.77%

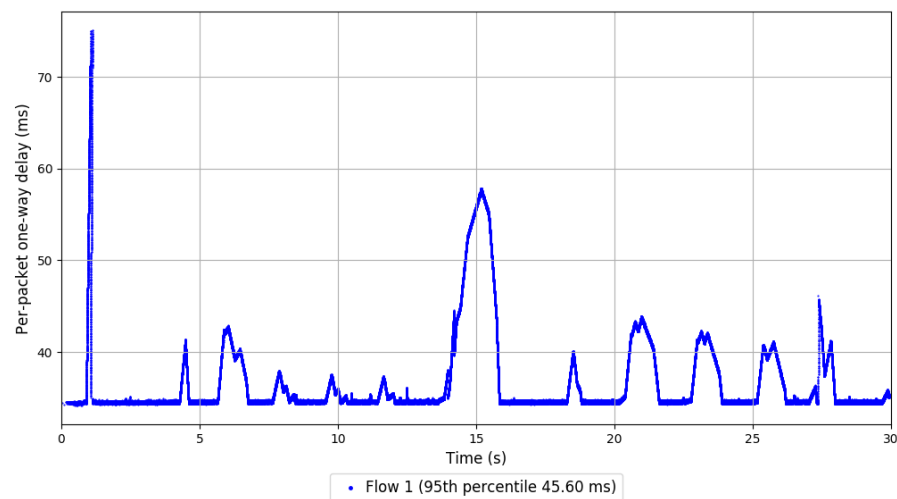
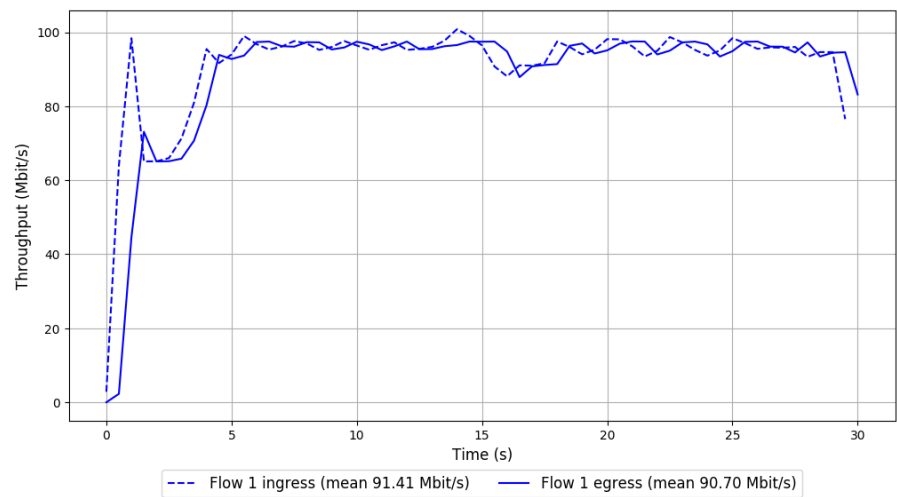
-- Flow 1:

Average throughput: 90.70 Mbit/s

95th percentile per-packet one-way delay: 45.601 ms

Loss rate: 0.77%

Run 5: Report of PCC-Allegro — Data Link



Run 6: Statistics of PCC-Allegro

Start at: 2018-08-01 01:58:55

End at: 2018-08-01 01:59:25

Local clock offset: 0.999 ms

Remote clock offset: 2.723 ms

Below is generated by plot.py at 2018-08-01 04:00:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.70 Mbit/s

95th percentile per-packet one-way delay: 38.885 ms

Loss rate: 0.69%

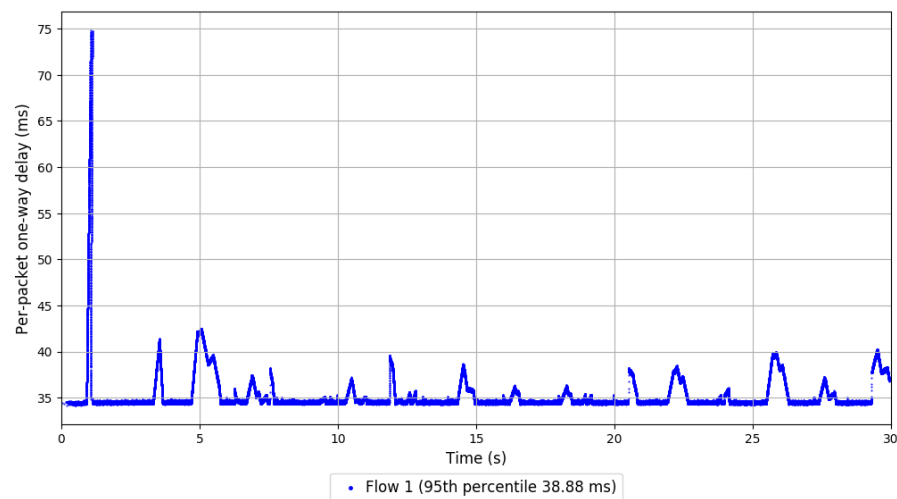
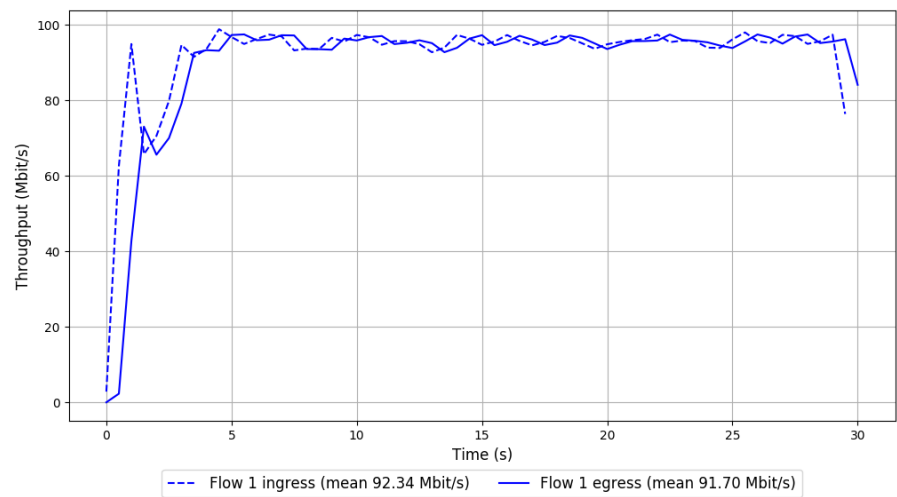
-- Flow 1:

Average throughput: 91.70 Mbit/s

95th percentile per-packet one-way delay: 38.885 ms

Loss rate: 0.69%

Run 6: Report of PCC-Allegro — Data Link



Run 7: Statistics of PCC-Allegro

Start at: 2018-08-01 02:21:15

End at: 2018-08-01 02:21:45

Local clock offset: 0.786 ms

Remote clock offset: 2.485 ms

Below is generated by plot.py at 2018-08-01 04:00:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.74 Mbit/s

95th percentile per-packet one-way delay: 42.200 ms

Loss rate: 0.70%

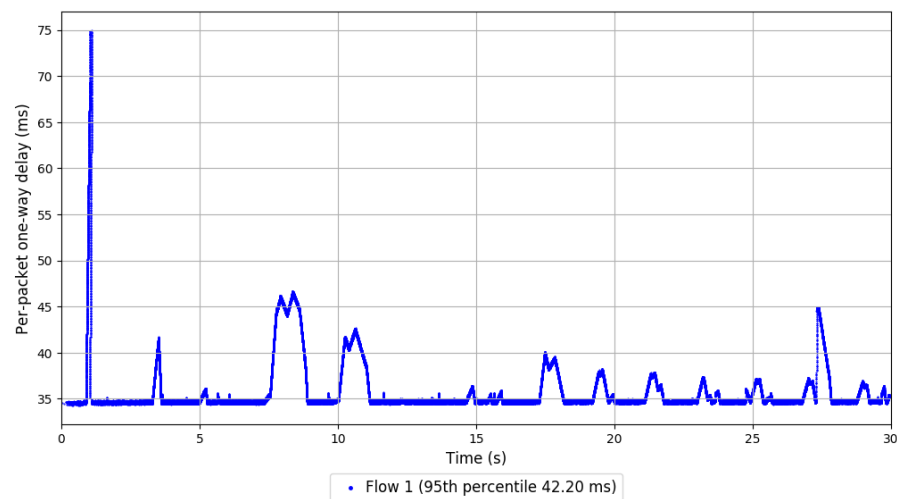
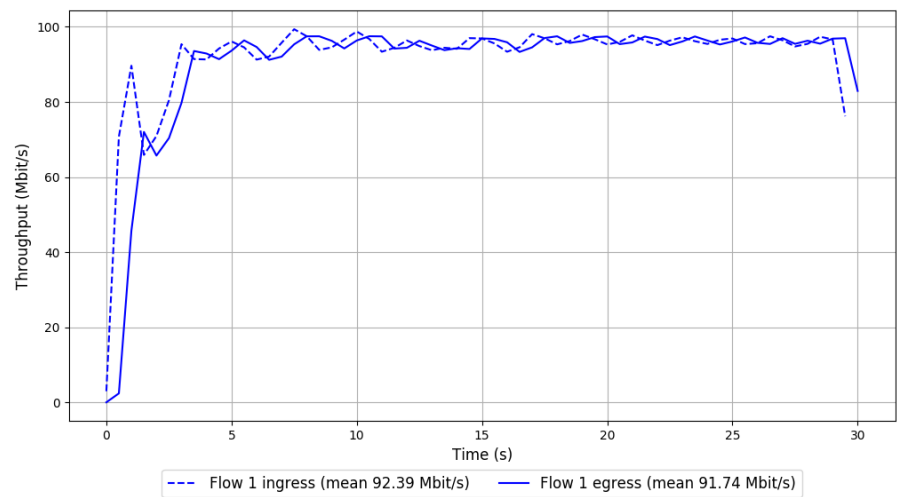
-- Flow 1:

Average throughput: 91.74 Mbit/s

95th percentile per-packet one-way delay: 42.200 ms

Loss rate: 0.70%

Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-08-01 02:43:36

End at: 2018-08-01 02:44:06

Local clock offset: 0.355 ms

Remote clock offset: 1.817 ms

Below is generated by plot.py at 2018-08-01 04:00:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.33 Mbit/s

95th percentile per-packet one-way delay: 42.215 ms

Loss rate: 0.73%

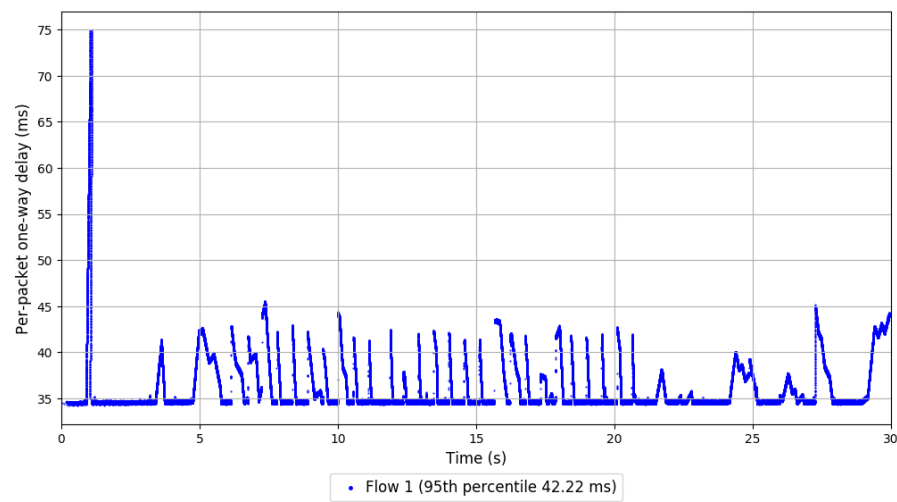
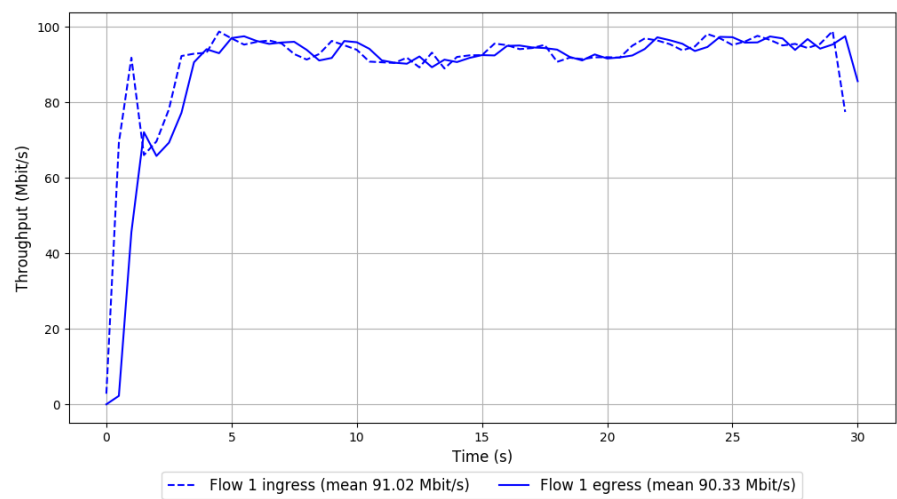
-- Flow 1:

Average throughput: 90.33 Mbit/s

95th percentile per-packet one-way delay: 42.215 ms

Loss rate: 0.73%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-08-01 03:05:50

End at: 2018-08-01 03:06:20

Local clock offset: 0.128 ms

Remote clock offset: 1.105 ms

Below is generated by plot.py at 2018-08-01 04:00:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.58 Mbit/s

95th percentile per-packet one-way delay: 41.989 ms

Loss rate: 0.76%

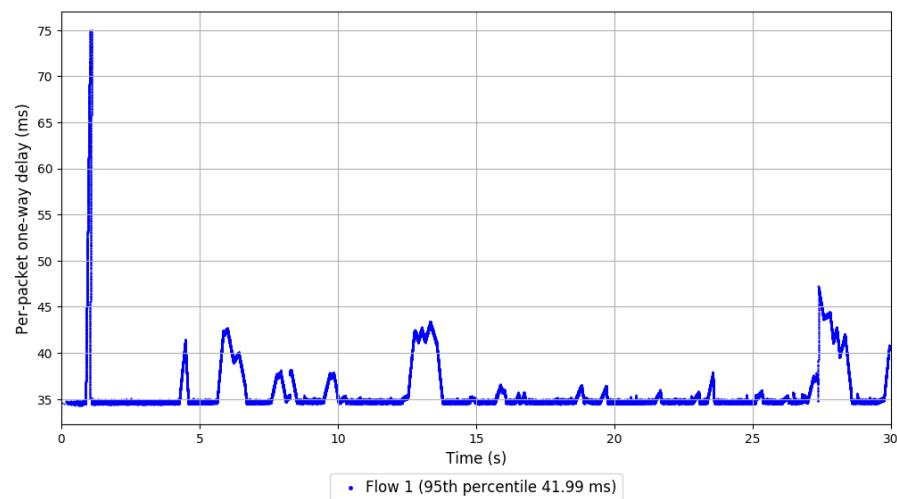
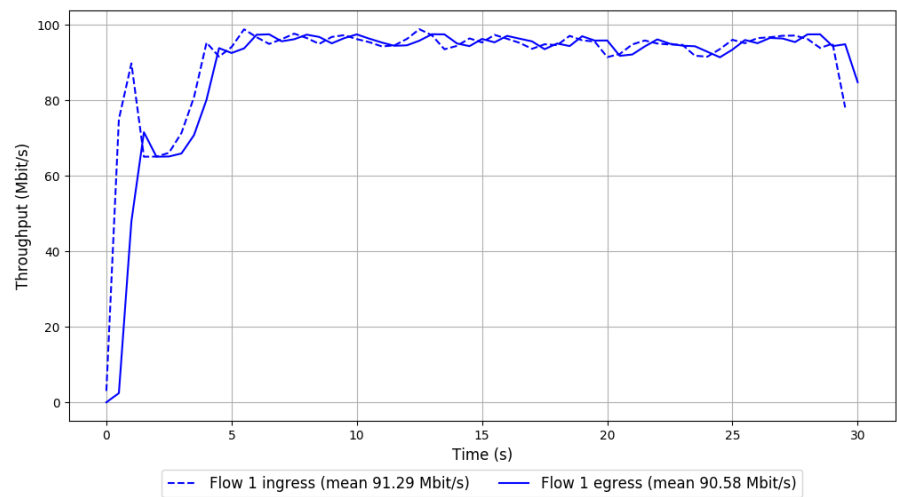
-- Flow 1:

Average throughput: 90.58 Mbit/s

95th percentile per-packet one-way delay: 41.989 ms

Loss rate: 0.76%

Run 9: Report of PCC-Allegro — Data Link



Run 10: Statistics of PCC-Allegro

Start at: 2018-08-01 03:28:08

End at: 2018-08-01 03:28:38

Local clock offset: -1.516 ms

Remote clock offset: 4.575 ms

Below is generated by plot.py at 2018-08-01 04:00:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.31 Mbit/s

95th percentile per-packet one-way delay: 37.666 ms

Loss rate: 0.72%

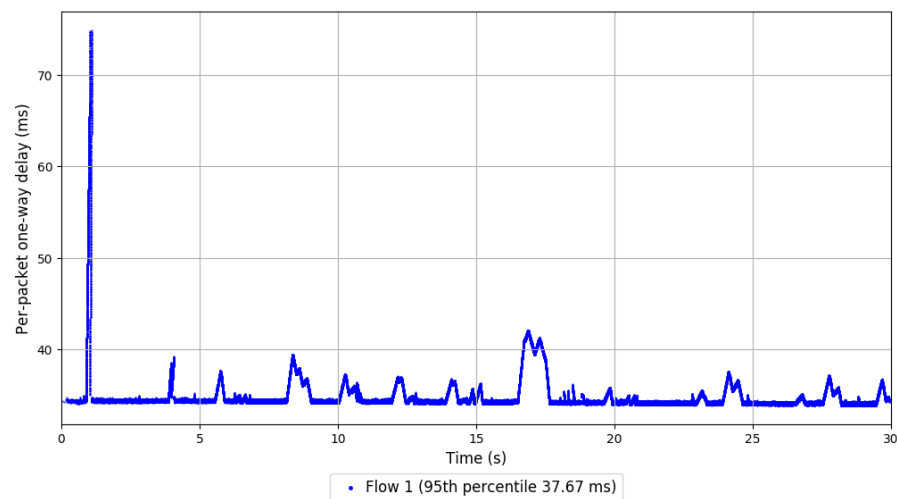
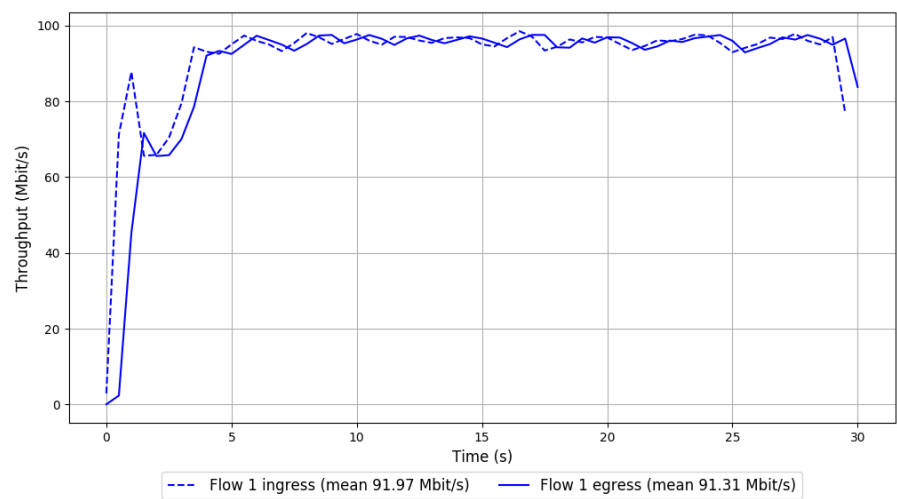
-- Flow 1:

Average throughput: 91.31 Mbit/s

95th percentile per-packet one-way delay: 37.666 ms

Loss rate: 0.72%

Run 10: Report of PCC-Allegro — Data Link

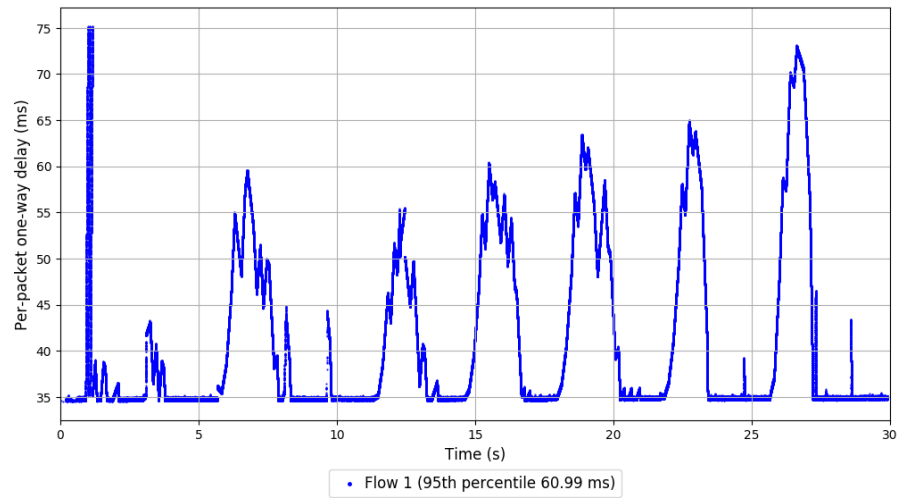
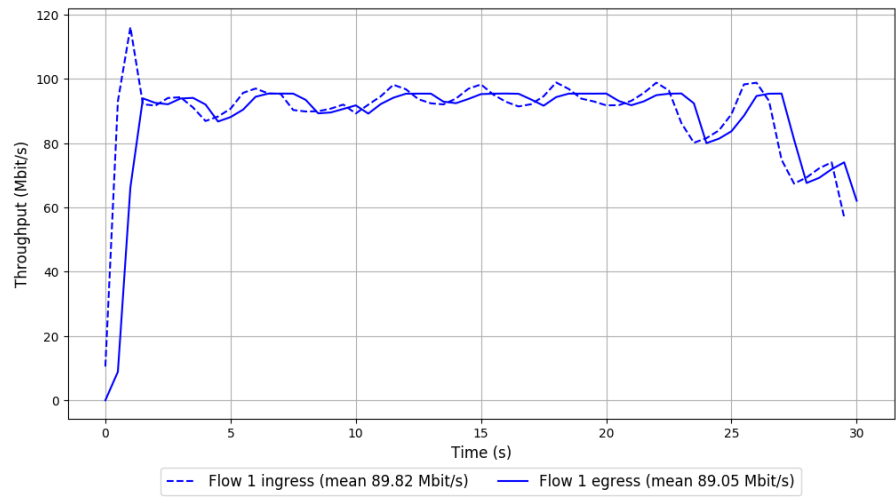


```
Run 1: Statistics of PCC-Expr

Start at: 2018-08-01 00:21:43
End at: 2018-08-01 00:22:13
Local clock offset: 9.589 ms
Remote clock offset: 1.112 ms

# Below is generated by plot.py at 2018-08-01 04:01:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.05 Mbit/s
95th percentile per-packet one-way delay: 60.994 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 89.05 Mbit/s
95th percentile per-packet one-way delay: 60.994 ms
Loss rate: 0.86%
```


Run 1: Report of PCC-Expr — Data Link



Run 2: Statistics of PCC-Expr

Start at: 2018-08-01 00:44:02

End at: 2018-08-01 00:44:32

Local clock offset: 4.314 ms

Remote clock offset: 1.359 ms

Below is generated by plot.py at 2018-08-01 04:01:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.57 Mbit/s

95th percentile per-packet one-way delay: 68.947 ms

Loss rate: 1.43%

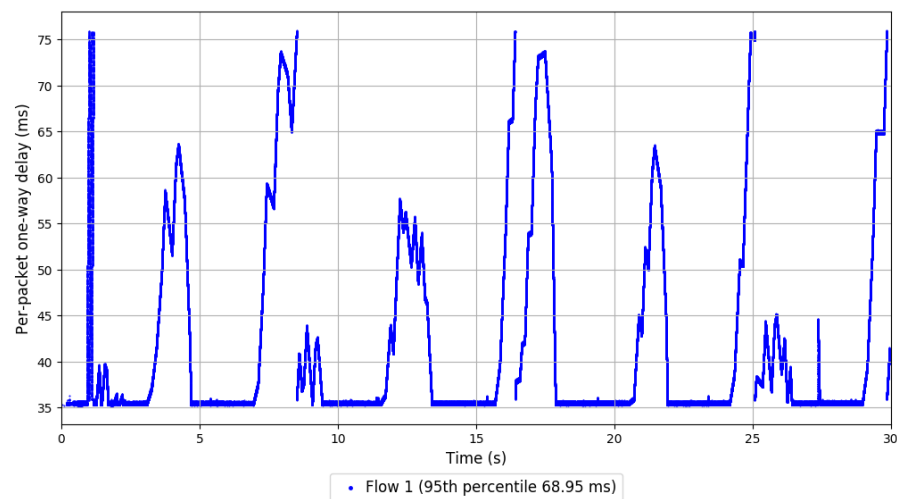
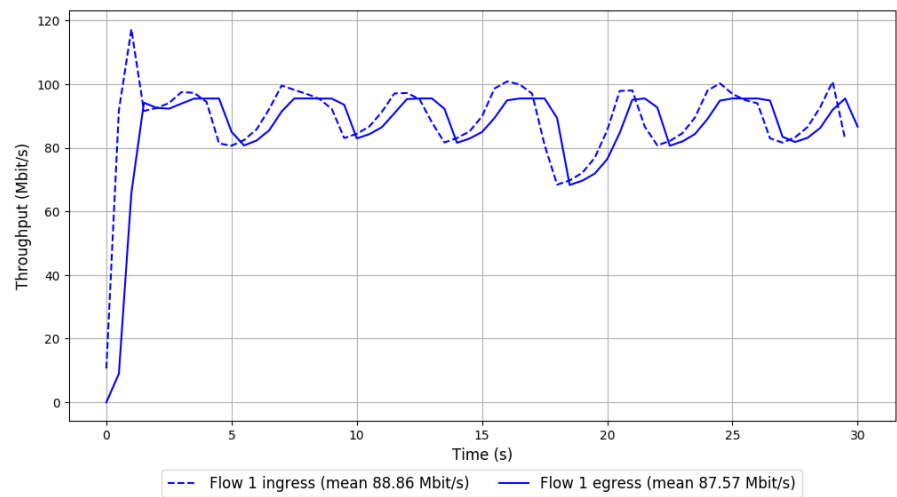
-- Flow 1:

Average throughput: 87.57 Mbit/s

95th percentile per-packet one-way delay: 68.947 ms

Loss rate: 1.43%

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2018-08-01 01:06:24

End at: 2018-08-01 01:06:54

Local clock offset: 2.411 ms

Remote clock offset: 0.801 ms

Below is generated by plot.py at 2018-08-01 04:01:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.77 Mbit/s

95th percentile per-packet one-way delay: 61.312 ms

Loss rate: 1.11%

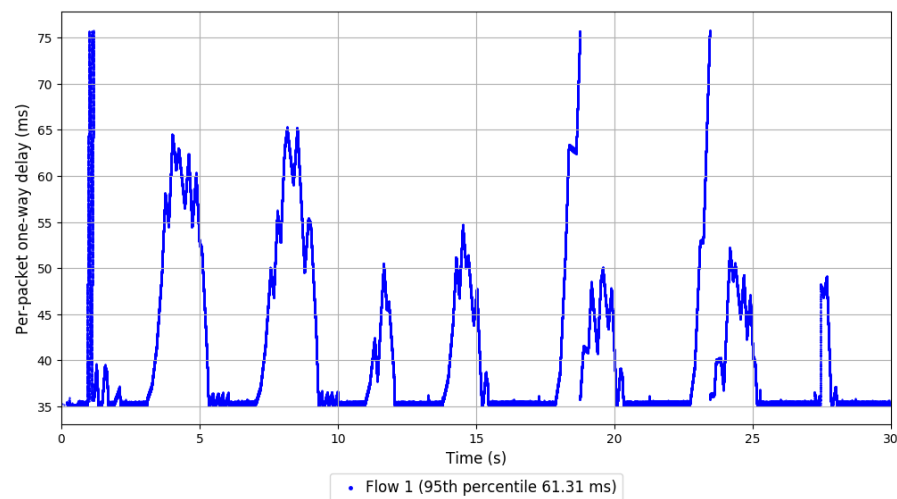
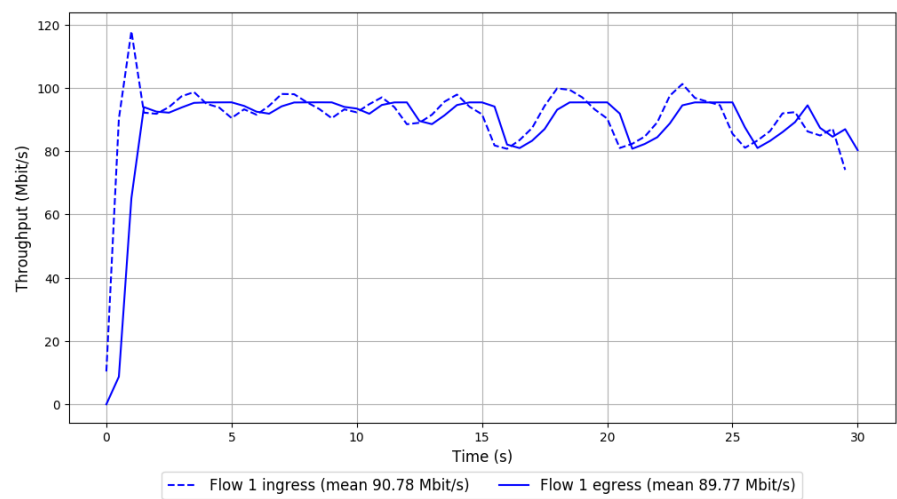
-- Flow 1:

Average throughput: 89.77 Mbit/s

95th percentile per-packet one-way delay: 61.312 ms

Loss rate: 1.11%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2018-08-01 01:28:43

End at: 2018-08-01 01:29:13

Local clock offset: 1.864 ms

Remote clock offset: 0.015 ms

Below is generated by plot.py at 2018-08-01 04:01:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.28 Mbit/s

95th percentile per-packet one-way delay: 62.679 ms

Loss rate: 0.98%

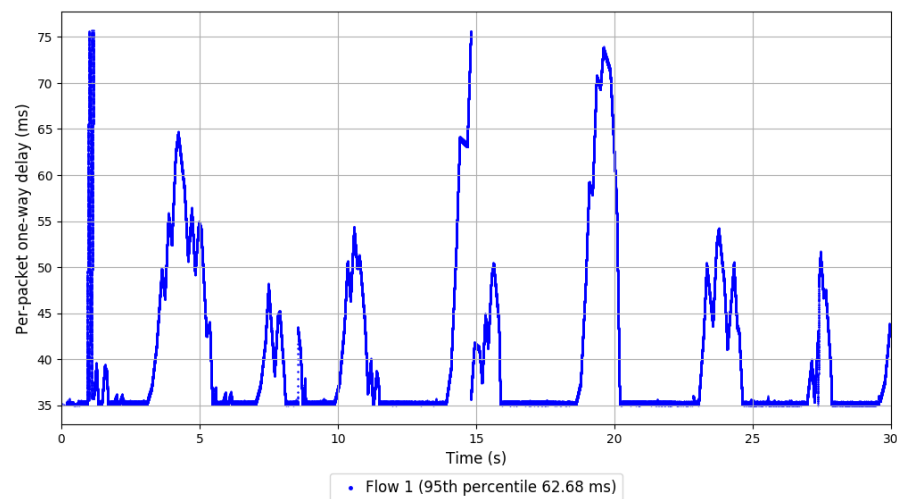
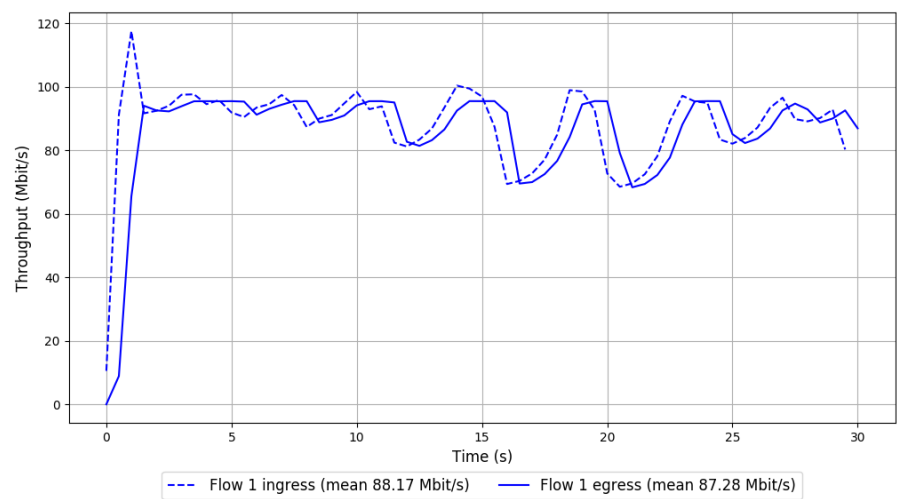
-- Flow 1:

Average throughput: 87.28 Mbit/s

95th percentile per-packet one-way delay: 62.679 ms

Loss rate: 0.98%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2018-08-01 01:51:02

End at: 2018-08-01 01:51:32

Local clock offset: 1.564 ms

Remote clock offset: 2.023 ms

Below is generated by plot.py at 2018-08-01 04:02:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.41 Mbit/s

95th percentile per-packet one-way delay: 65.672 ms

Loss rate: 1.57%

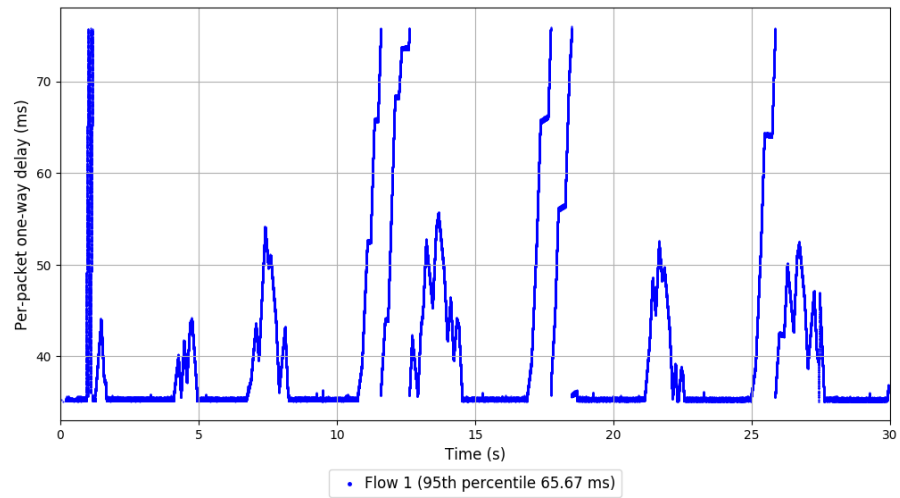
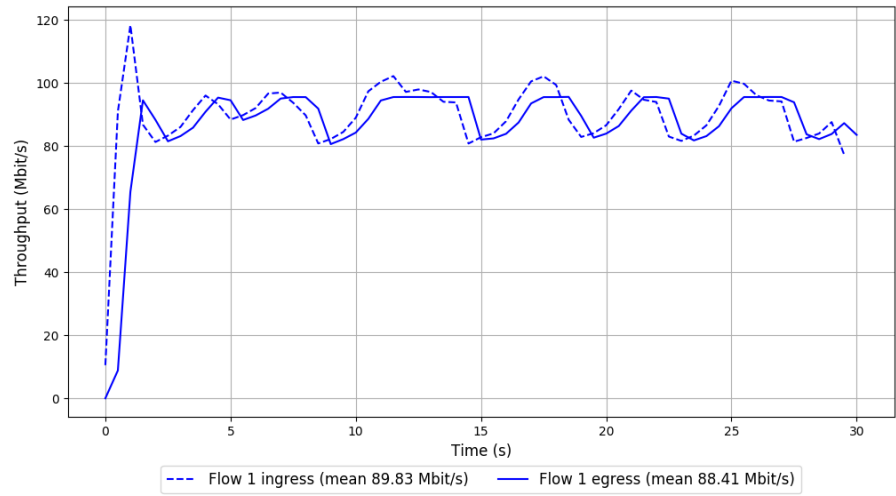
-- Flow 1:

Average throughput: 88.41 Mbit/s

95th percentile per-packet one-way delay: 65.672 ms

Loss rate: 1.57%

Run 5: Report of PCC-Expr — Data Link



Run 6: Statistics of PCC-Expr

Start at: 2018-08-01 02:13:21

End at: 2018-08-01 02:13:51

Local clock offset: 0.679 ms

Remote clock offset: 3.008 ms

Below is generated by plot.py at 2018-08-01 04:02:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.50 Mbit/s

95th percentile per-packet one-way delay: 59.814 ms

Loss rate: 1.10%

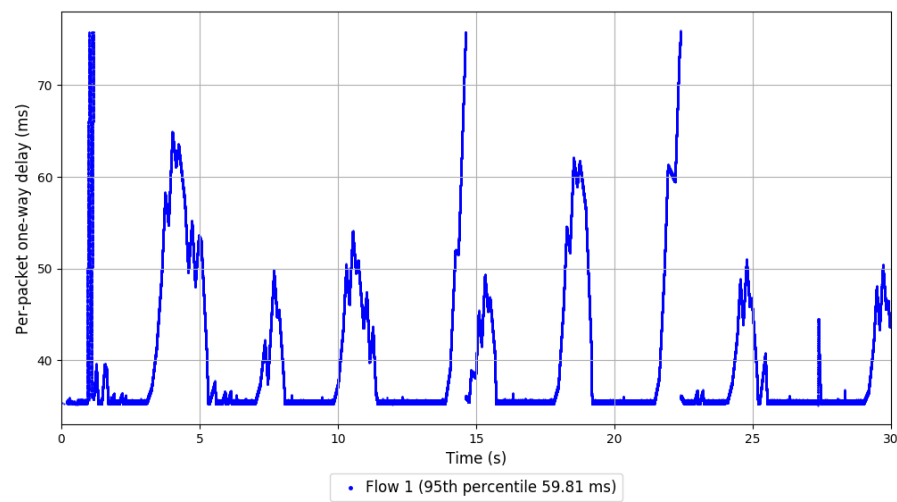
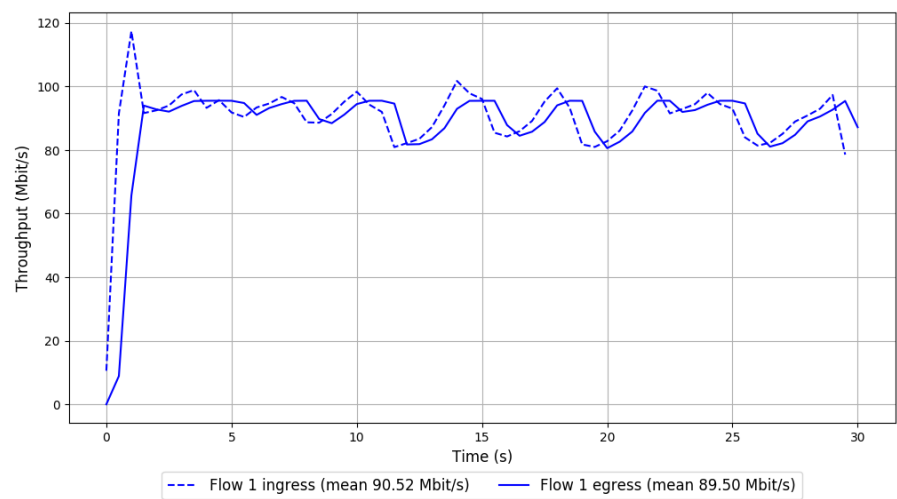
-- Flow 1:

Average throughput: 89.50 Mbit/s

95th percentile per-packet one-way delay: 59.814 ms

Loss rate: 1.10%

Run 6: Report of PCC-Expr — Data Link



Run 7: Statistics of PCC-Expr

Start at: 2018-08-01 02:35:39

End at: 2018-08-01 02:36:09

Local clock offset: 0.41 ms

Remote clock offset: 1.95 ms

Below is generated by plot.py at 2018-08-01 04:02:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.11 Mbit/s

95th percentile per-packet one-way delay: 66.578 ms

Loss rate: 1.16%

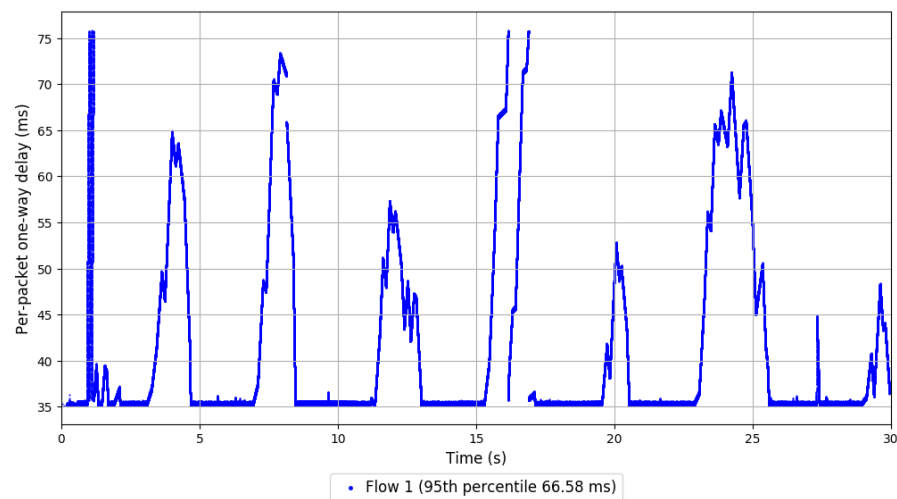
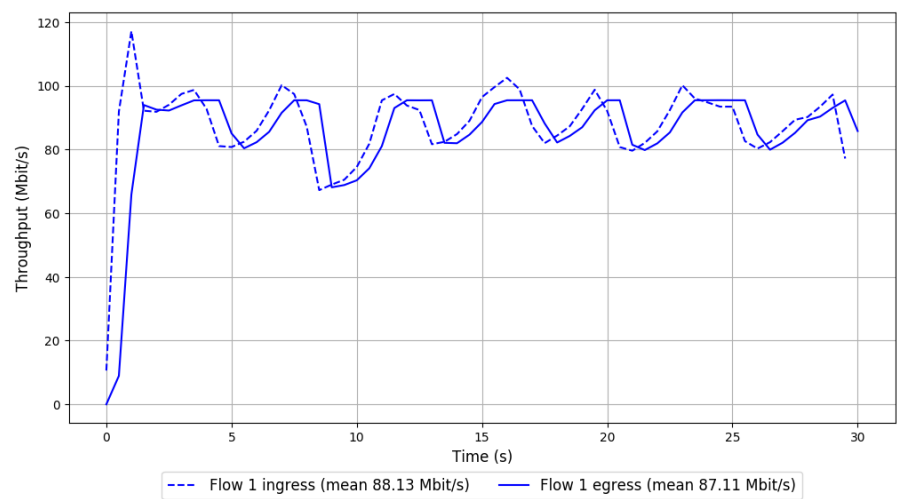
-- Flow 1:

Average throughput: 87.11 Mbit/s

95th percentile per-packet one-way delay: 66.578 ms

Loss rate: 1.16%

Run 7: Report of PCC-Expr — Data Link



Run 8: Statistics of PCC-Expr

Start at: 2018-08-01 02:57:57

End at: 2018-08-01 02:58:27

Local clock offset: 0.294 ms

Remote clock offset: 1.459 ms

Below is generated by plot.py at 2018-08-01 04:02:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.97 Mbit/s

95th percentile per-packet one-way delay: 60.783 ms

Loss rate: 0.83%

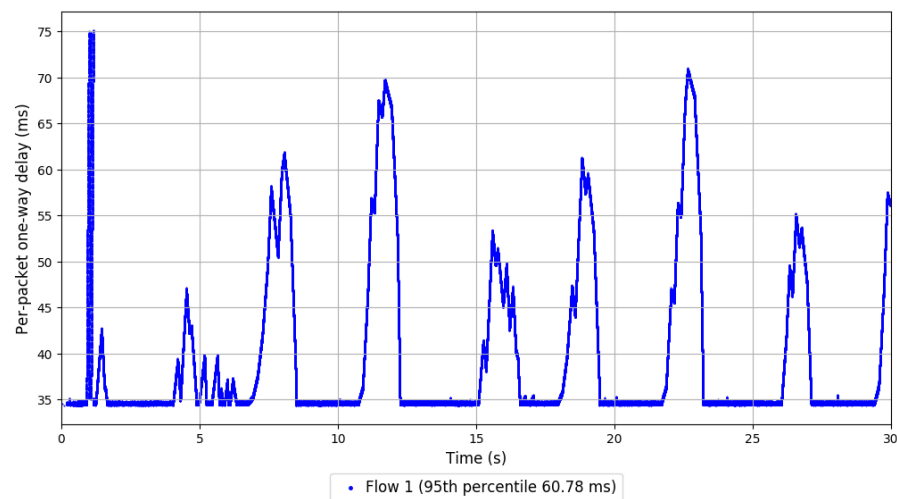
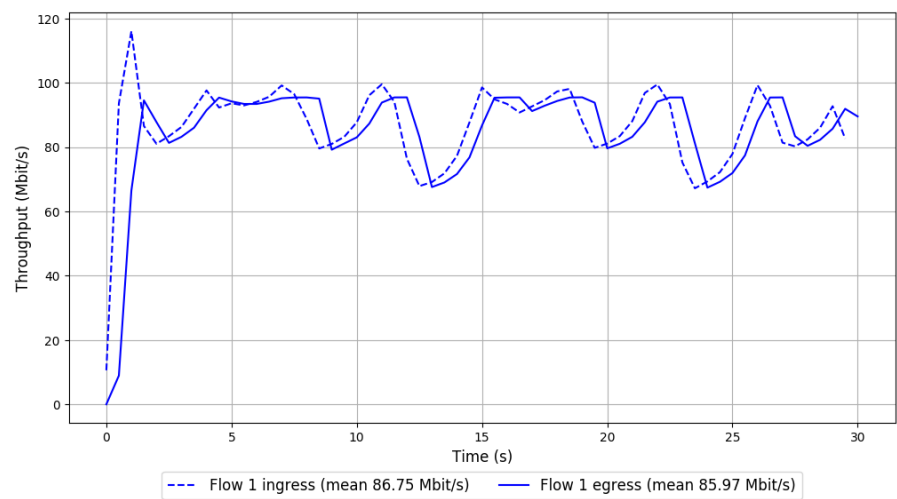
-- Flow 1:

Average throughput: 85.97 Mbit/s

95th percentile per-packet one-way delay: 60.783 ms

Loss rate: 0.83%

Run 8: Report of PCC-Expr — Data Link



Run 9: Statistics of PCC-Expr

Start at: 2018-08-01 03:20:15

End at: 2018-08-01 03:20:45

Local clock offset: 0.066 ms

Remote clock offset: 0.327 ms

Below is generated by plot.py at 2018-08-01 04:03:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.85 Mbit/s

95th percentile per-packet one-way delay: 60.029 ms

Loss rate: 1.32%

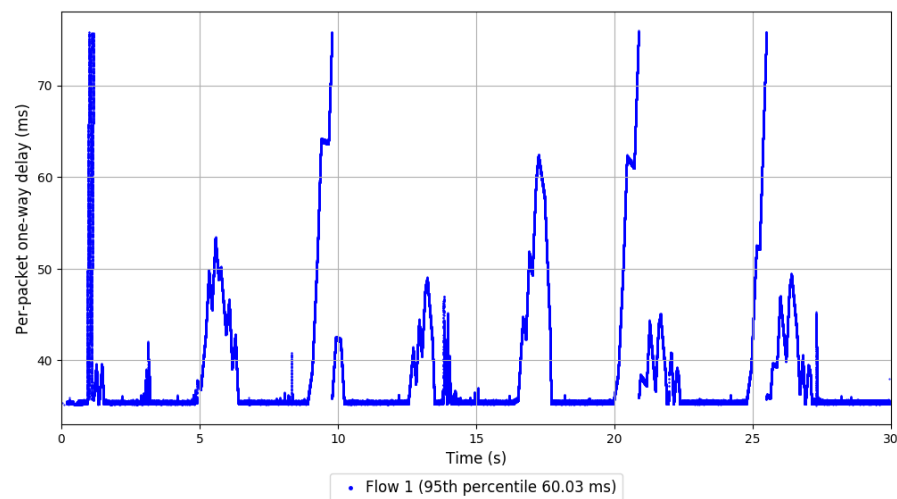
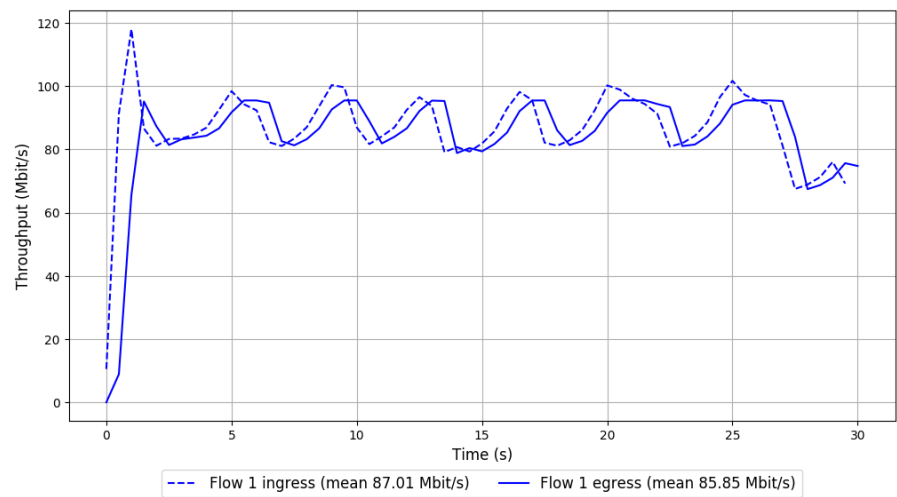
-- Flow 1:

Average throughput: 85.85 Mbit/s

95th percentile per-packet one-way delay: 60.029 ms

Loss rate: 1.32%

Run 9: Report of PCC-Expr — Data Link

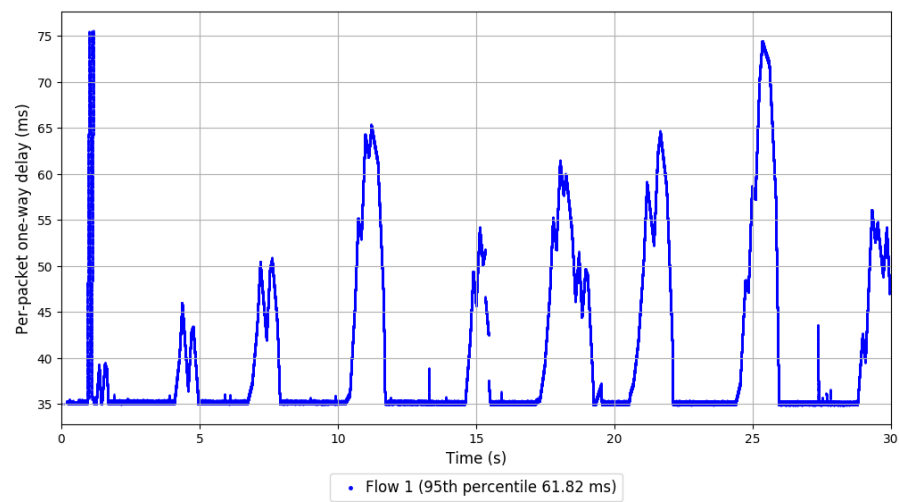
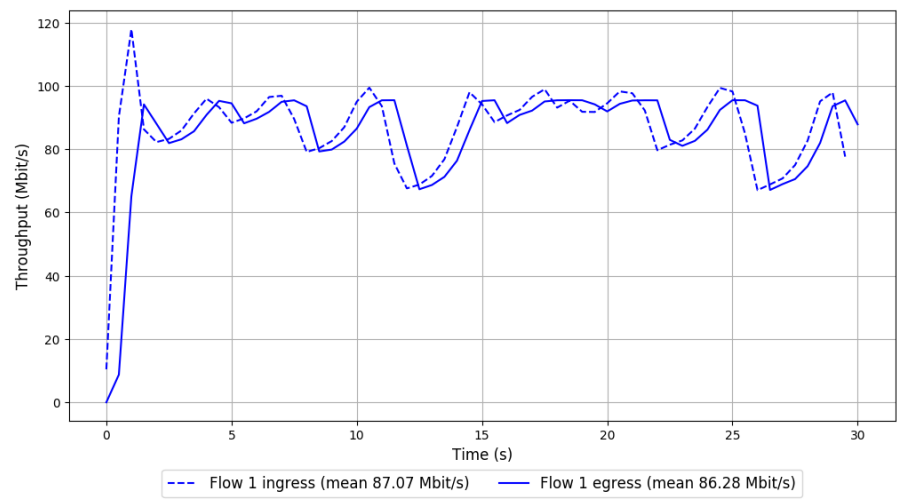


Run 10: Statistics of PCC-Expr

Start at: 2018-08-01 03:42:33
End at: 2018-08-01 03:43:03
Local clock offset: -3.268 ms
Remote clock offset: 10.036 ms

Below is generated by plot.py at 2018-08-01 04:04:06
Datalink statistics
-- Total of 1 flow:
Average throughput: 86.28 Mbit/s
95th percentile per-packet one-way delay: 61.824 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 86.28 Mbit/s
95th percentile per-packet one-way delay: 61.824 ms
Loss rate: 0.87%

Run 10: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

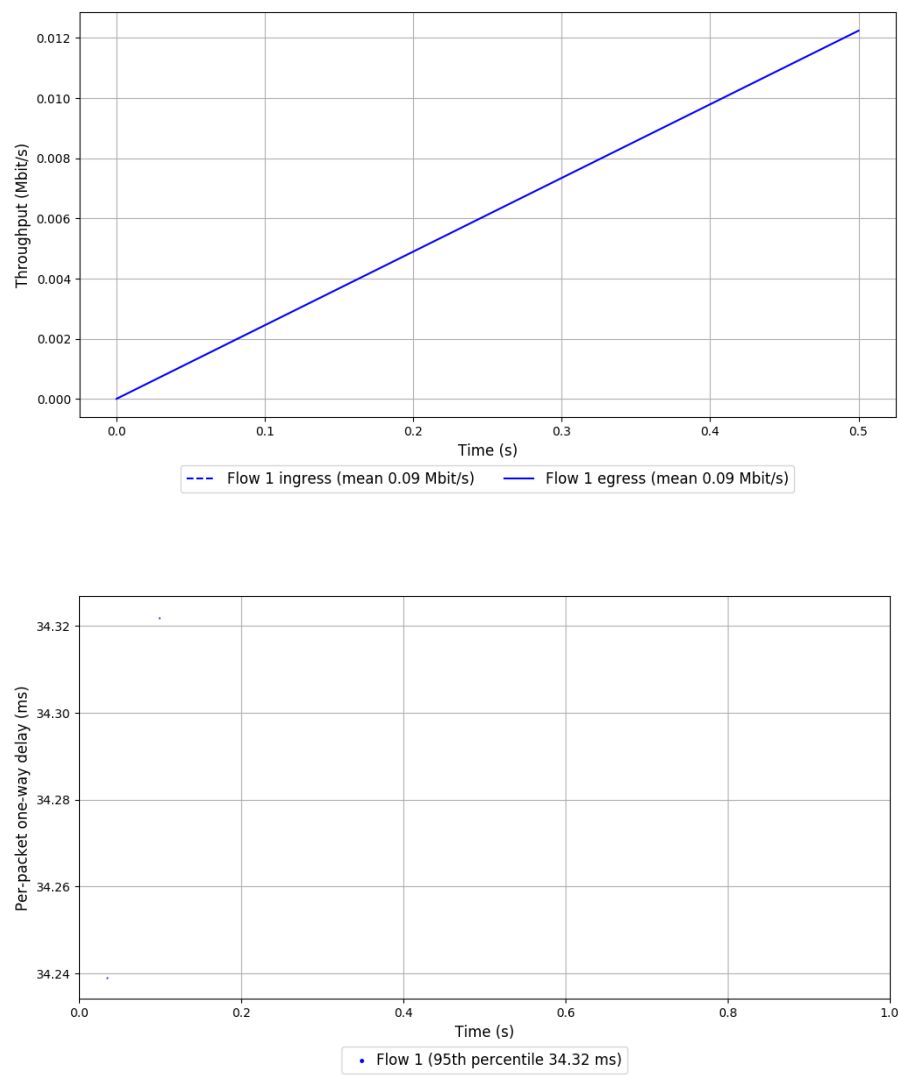
Start at: 2018-08-01 00:06:07

End at: 2018-08-01 00:06:37

Local clock offset: 7.958 ms

Remote clock offset: 2.532 ms

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-08-01 00:28:18

End at: 2018-08-01 00:28:49

Local clock offset: 6.116 ms

Remote clock offset: 0.678 ms

Below is generated by plot.py at 2018-08-01 04:04:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.07 Mbit/s

95th percentile per-packet one-way delay: 69.065 ms

Loss rate: 1.00%

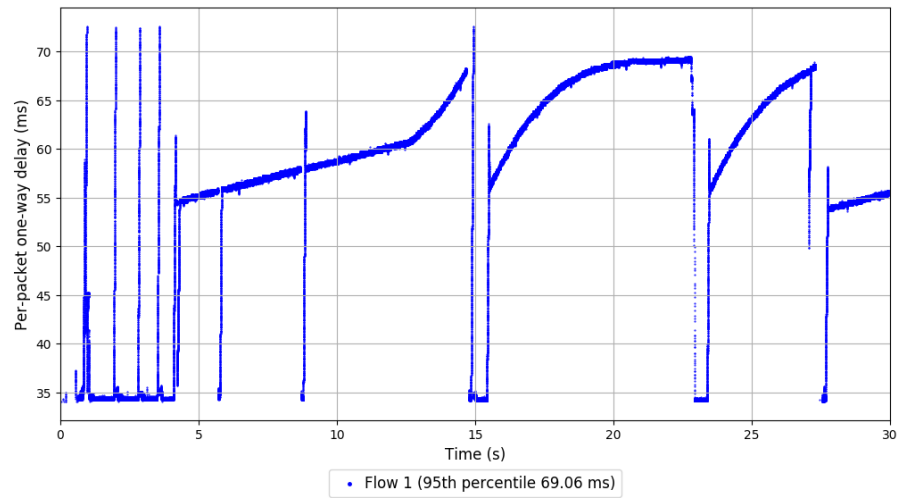
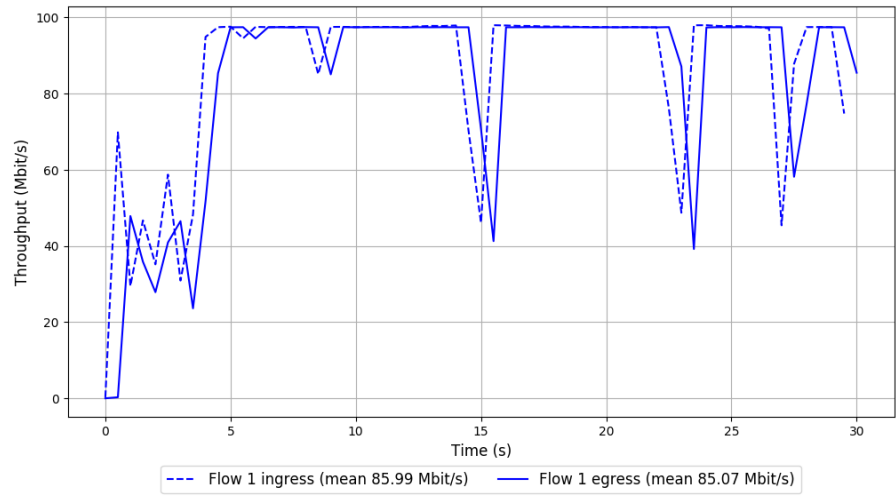
-- Flow 1:

Average throughput: 85.07 Mbit/s

95th percentile per-packet one-way delay: 69.065 ms

Loss rate: 1.00%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-08-01 00:50:37

End at: 2018-08-01 00:51:07

Local clock offset: 4.894 ms

Remote clock offset: 1.361 ms

Below is generated by plot.py at 2018-08-01 04:04:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.56 Mbit/s

95th percentile per-packet one-way delay: 72.380 ms

Loss rate: 1.84%

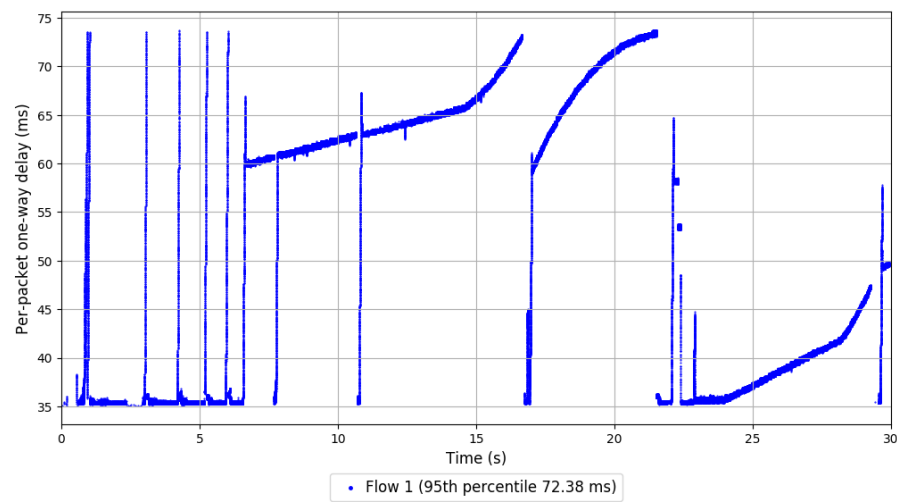
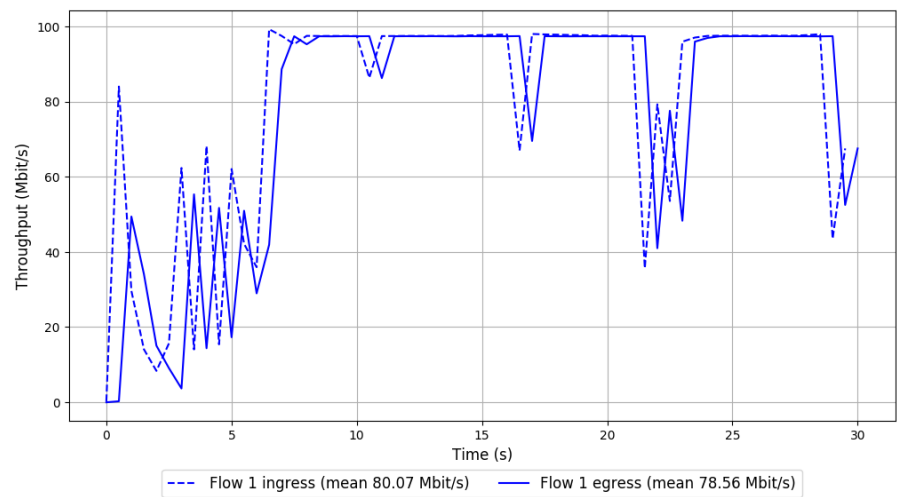
-- Flow 1:

Average throughput: 78.56 Mbit/s

95th percentile per-packet one-way delay: 72.380 ms

Loss rate: 1.84%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-08-01 01:12:58

End at: 2018-08-01 01:13:28

Local clock offset: 2.332 ms

Remote clock offset: 0.425 ms

Below is generated by plot.py at 2018-08-01 04:04:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.56 Mbit/s

95th percentile per-packet one-way delay: 72.461 ms

Loss rate: 1.80%

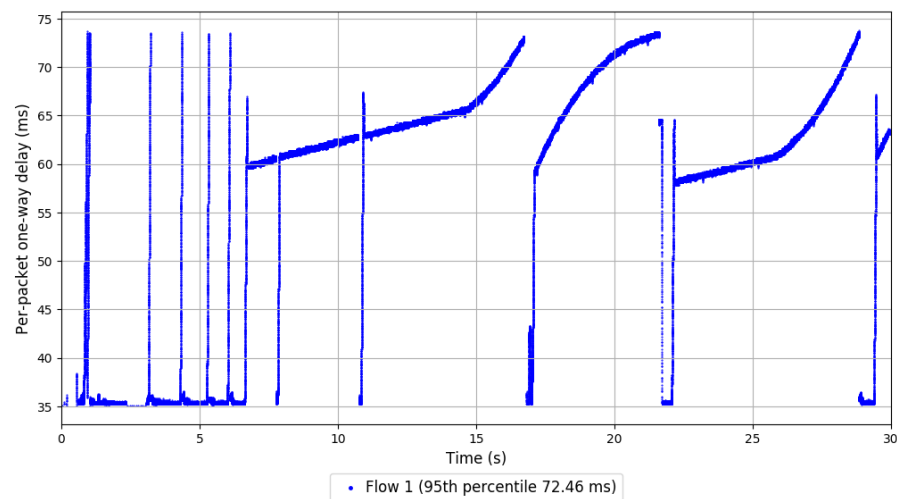
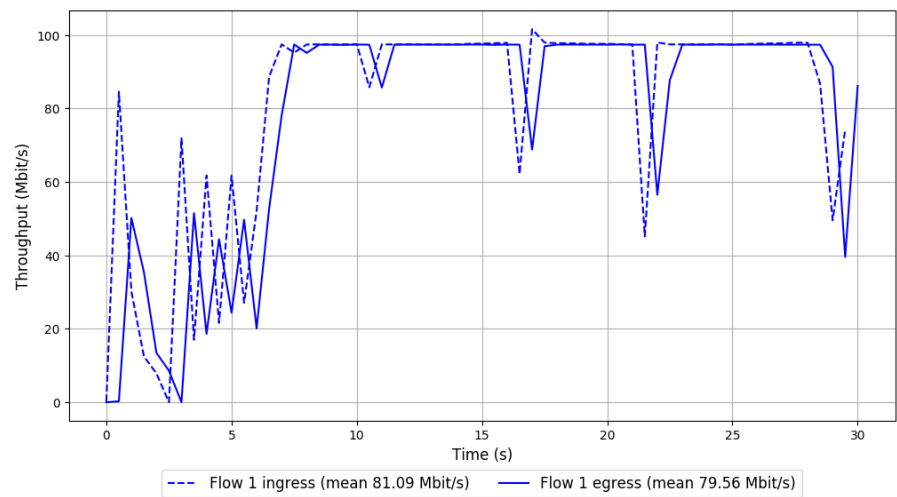
-- Flow 1:

Average throughput: 79.56 Mbit/s

95th percentile per-packet one-way delay: 72.461 ms

Loss rate: 1.80%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-08-01 01:35:18

End at: 2018-08-01 01:35:48

Local clock offset: 1.425 ms

Remote clock offset: 0.008 ms

Below is generated by plot.py at 2018-08-01 04:04:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.17 Mbit/s

95th percentile per-packet one-way delay: 71.524 ms

Loss rate: 1.97%

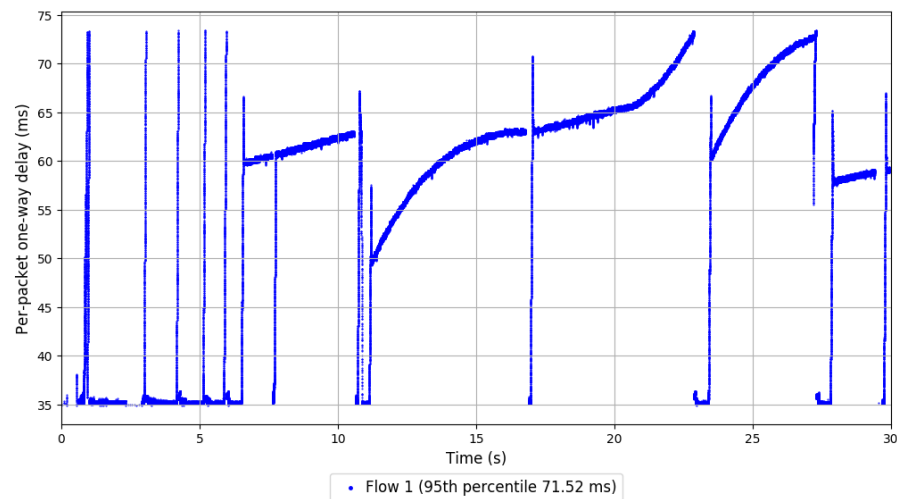
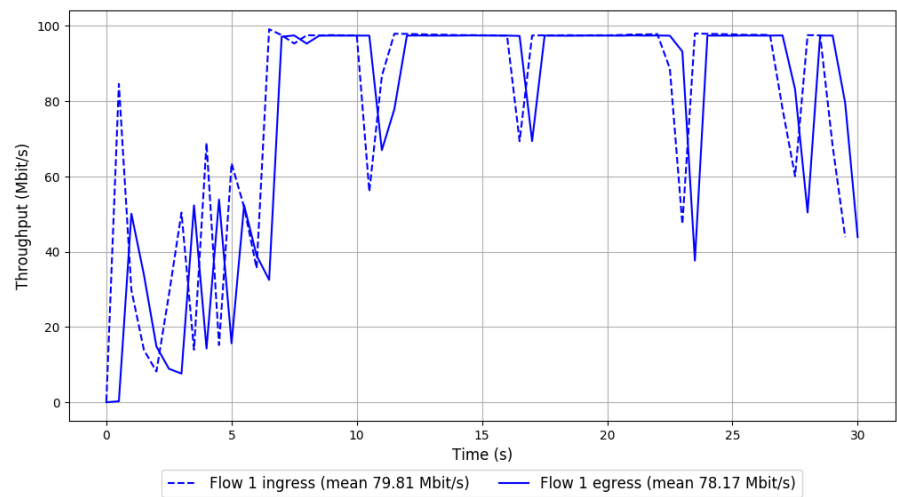
-- Flow 1:

Average throughput: 78.17 Mbit/s

95th percentile per-packet one-way delay: 71.524 ms

Loss rate: 1.97%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-08-01 01:57:36

End at: 2018-08-01 01:58:06

Local clock offset: 1.097 ms

Remote clock offset: 2.671 ms

Below is generated by plot.py at 2018-08-01 04:04:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.37 Mbit/s

95th percentile per-packet one-way delay: 66.710 ms

Loss rate: 1.67%

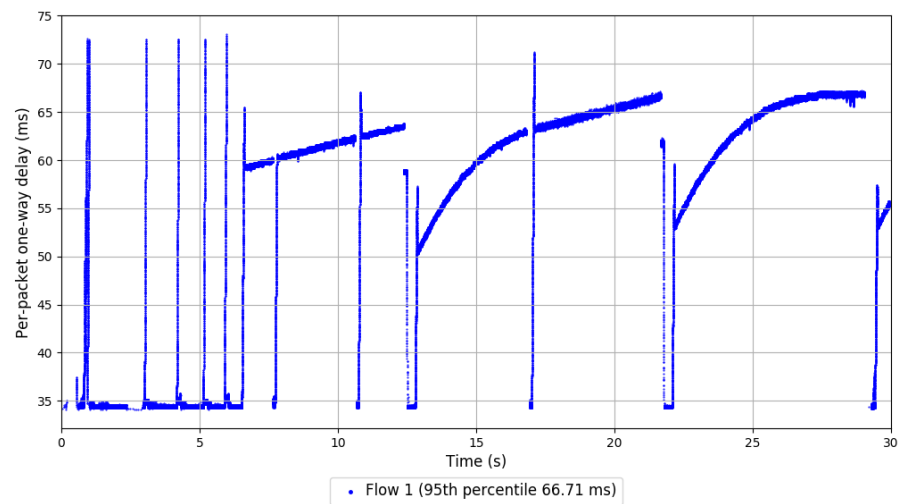
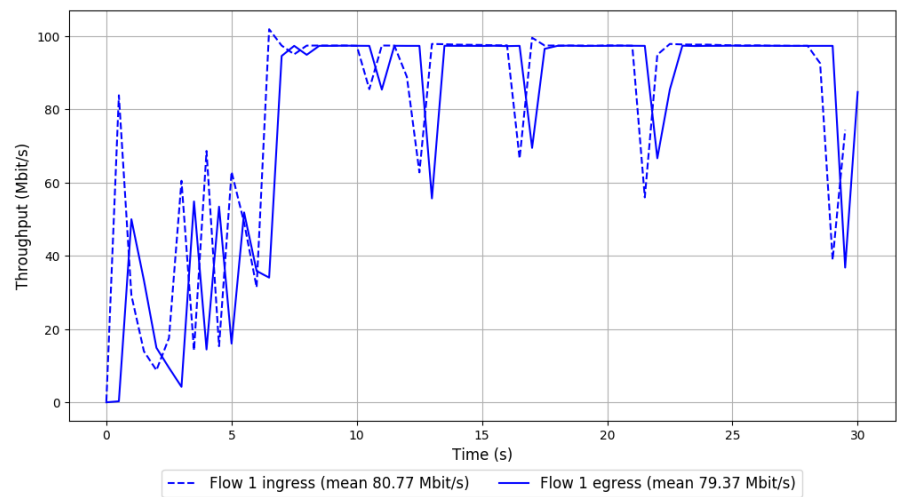
-- Flow 1:

Average throughput: 79.37 Mbit/s

95th percentile per-packet one-way delay: 66.710 ms

Loss rate: 1.67%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-08-01 02:19:56

End at: 2018-08-01 02:20:26

Local clock offset: 0.752 ms

Remote clock offset: 2.545 ms

Below is generated by plot.py at 2018-08-01 04:04:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.55 Mbit/s

95th percentile per-packet one-way delay: 68.465 ms

Loss rate: 1.67%

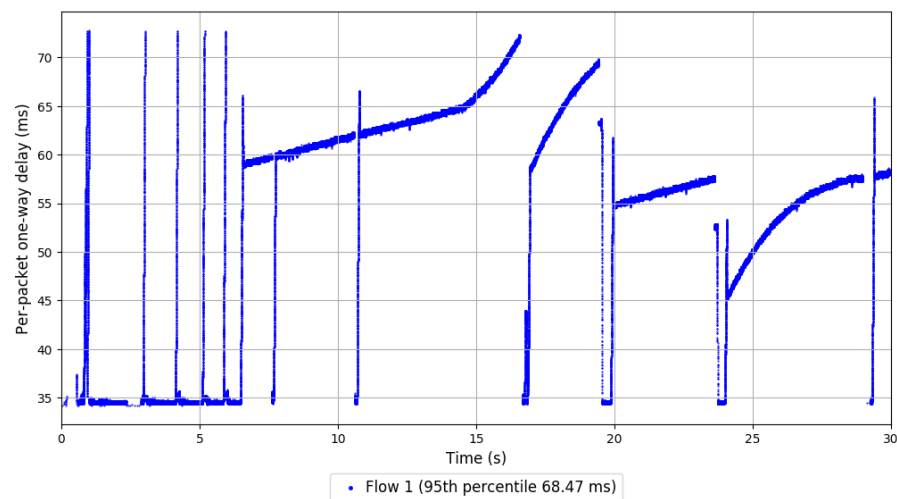
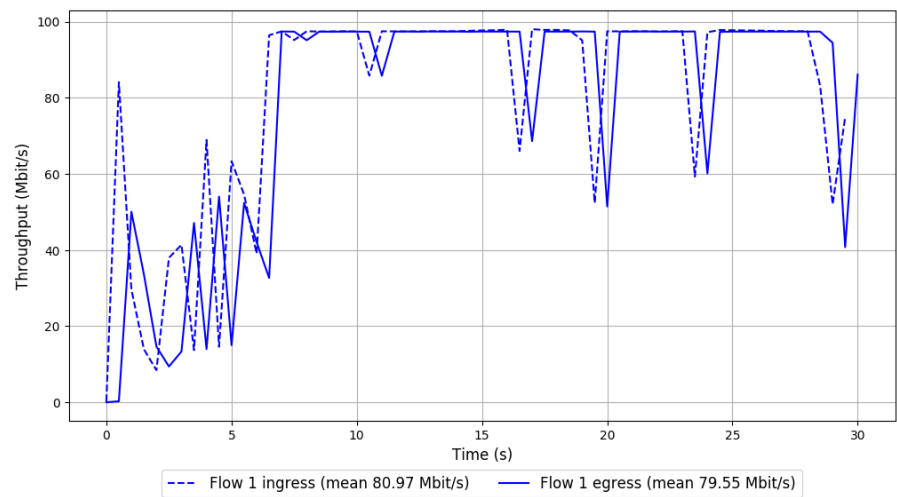
-- Flow 1:

Average throughput: 79.55 Mbit/s

95th percentile per-packet one-way delay: 68.465 ms

Loss rate: 1.67%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-08-01 02:42:17

End at: 2018-08-01 02:42:47

Local clock offset: 0.279 ms

Remote clock offset: 1.879 ms

Below is generated by plot.py at 2018-08-01 04:04:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.44 Mbit/s

95th percentile per-packet one-way delay: 72.067 ms

Loss rate: 0.90%

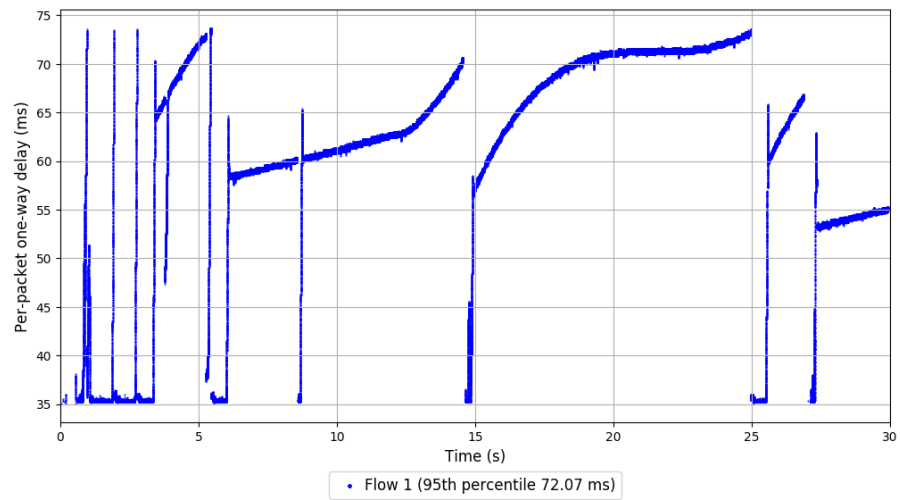
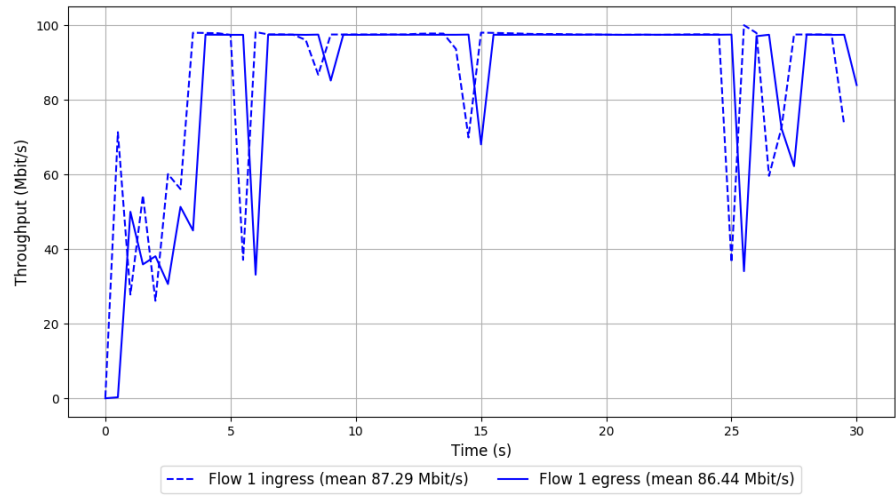
-- Flow 1:

Average throughput: 86.44 Mbit/s

95th percentile per-packet one-way delay: 72.067 ms

Loss rate: 0.90%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-08-01 03:04:32

End at: 2018-08-01 03:05:02

Local clock offset: 0.133 ms

Remote clock offset: 1.217 ms

Below is generated by plot.py at 2018-08-01 04:04:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.63 Mbit/s

95th percentile per-packet one-way delay: 69.666 ms

Loss rate: 1.85%

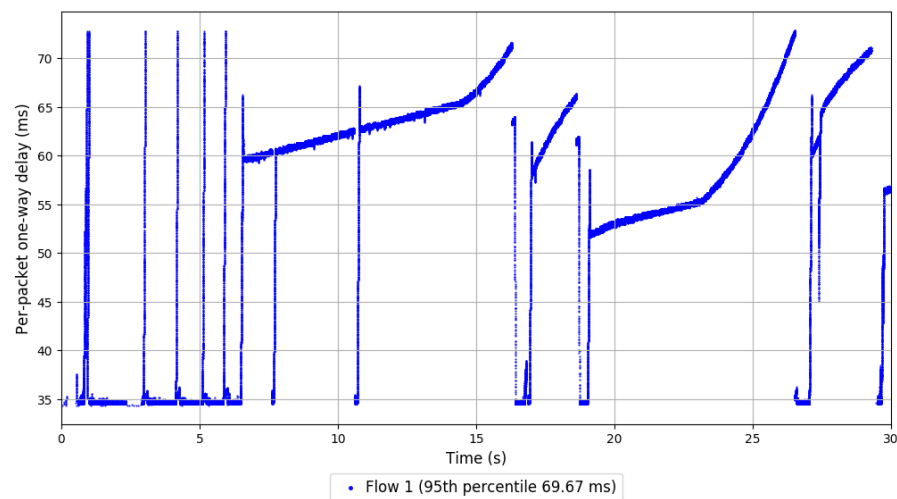
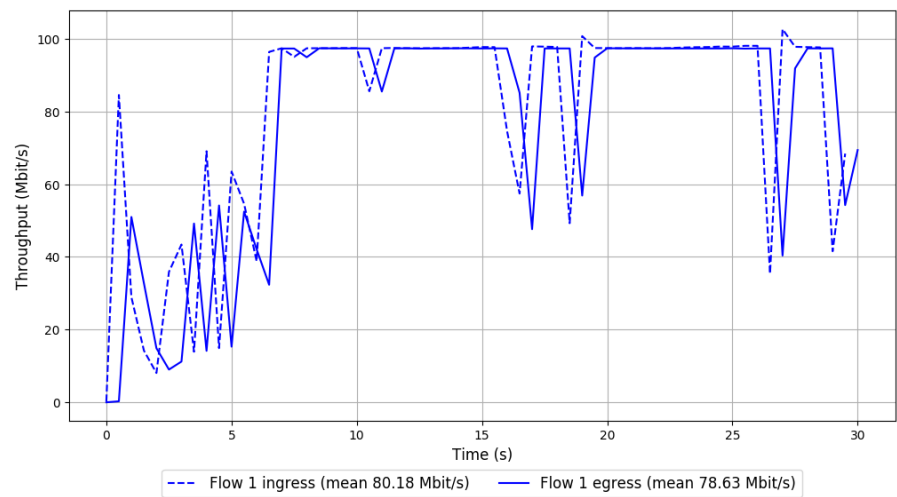
-- Flow 1:

Average throughput: 78.63 Mbit/s

95th percentile per-packet one-way delay: 69.666 ms

Loss rate: 1.85%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-08-01 03:26:50

End at: 2018-08-01 03:27:20

Local clock offset: -1.166 ms

Remote clock offset: 3.636 ms

Below is generated by plot.py at 2018-08-01 04:04:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.11 Mbit/s

95th percentile per-packet one-way delay: 71.459 ms

Loss rate: 1.77%

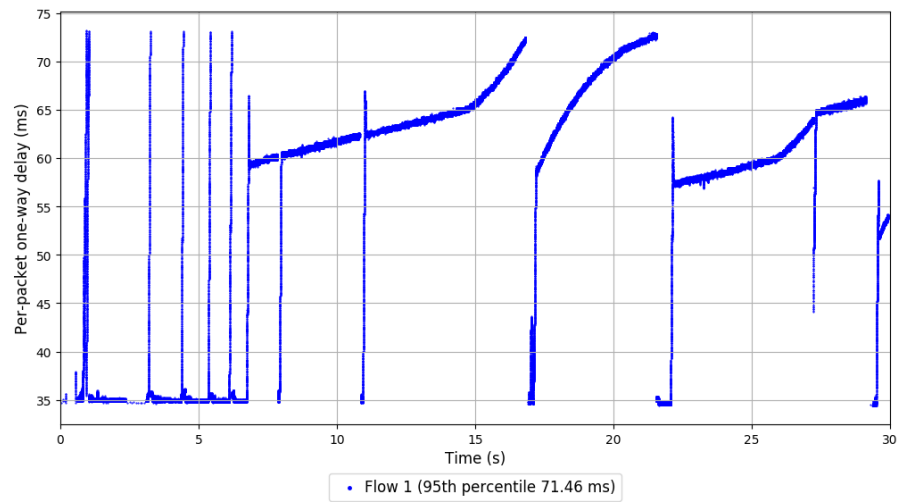
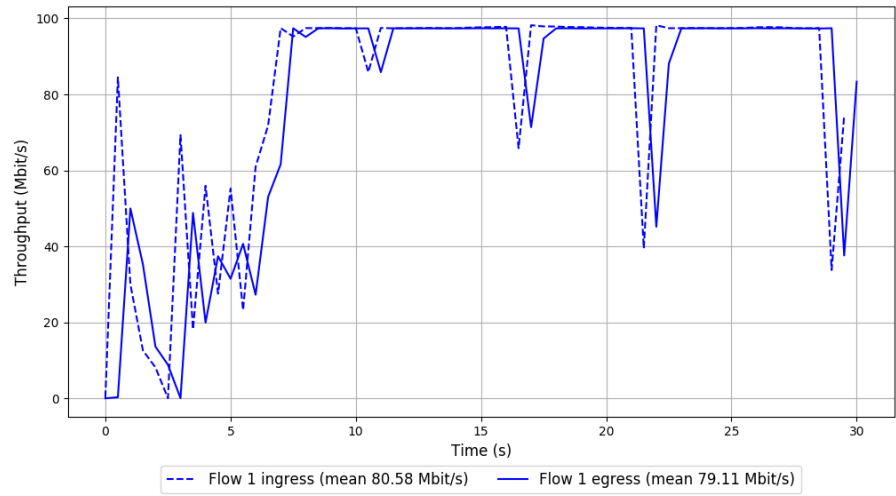
-- Flow 1:

Average throughput: 79.11 Mbit/s

95th percentile per-packet one-way delay: 71.459 ms

Loss rate: 1.77%

Run 10: Report of QUIC Cubic — Data Link

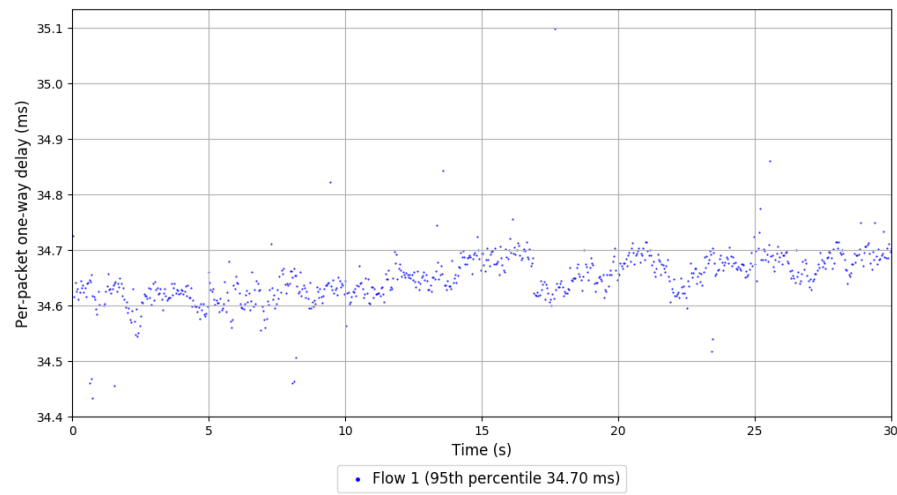
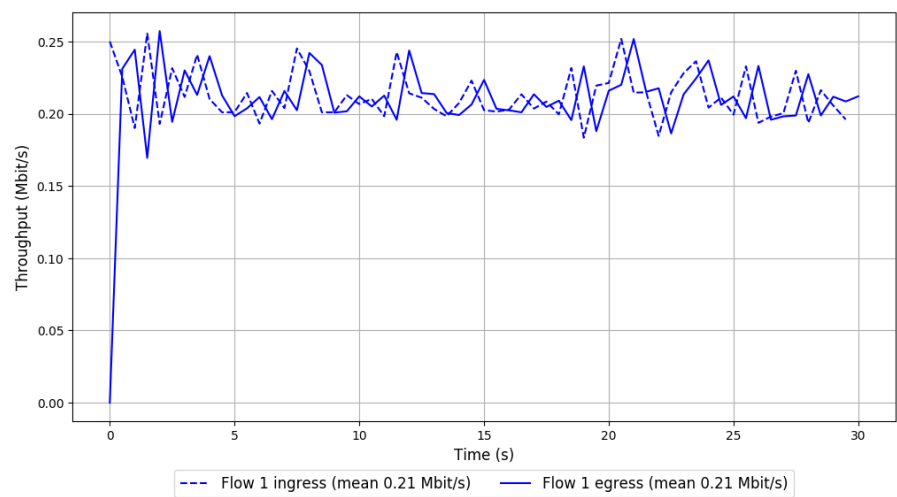


```
Run 1: Statistics of SCReAM

Start at: 2018-08-01 00:11:20
End at: 2018-08-01 00:11:50
Local clock offset: 7.865 ms
Remote clock offset: 1.982 ms

# Below is generated by plot.py at 2018-08-01 04:04:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 34.704 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 34.704 ms
Loss rate: 0.00%
```


Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2018-08-01 00:33:37

End at: 2018-08-01 00:34:07

Local clock offset: 4.721 ms

Remote clock offset: 0.553 ms

Below is generated by plot.py at 2018-08-01 04:04:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 34.428 ms

Loss rate: 0.00%

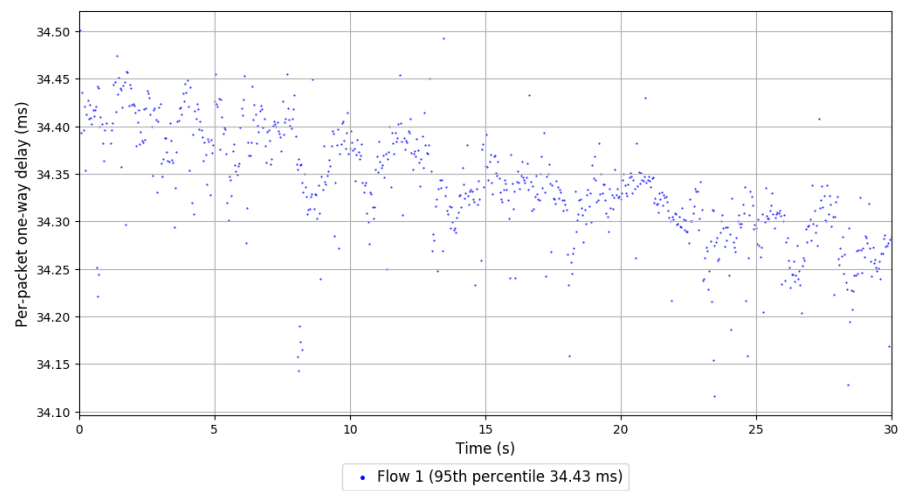
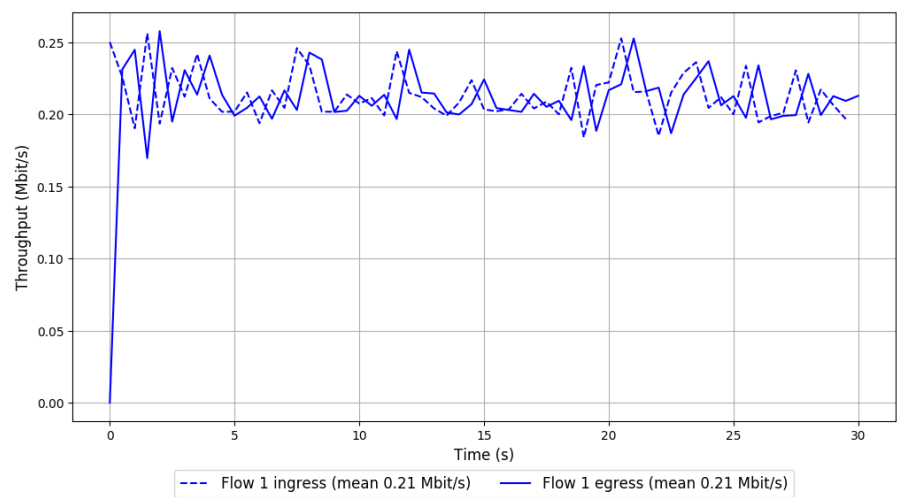
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 34.428 ms

Loss rate: 0.00%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-08-01 00:55:55

End at: 2018-08-01 00:56:25

Local clock offset: 3.867 ms

Remote clock offset: 1.327 ms

Below is generated by plot.py at 2018-08-01 04:04:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 35.294 ms

Loss rate: 0.00%

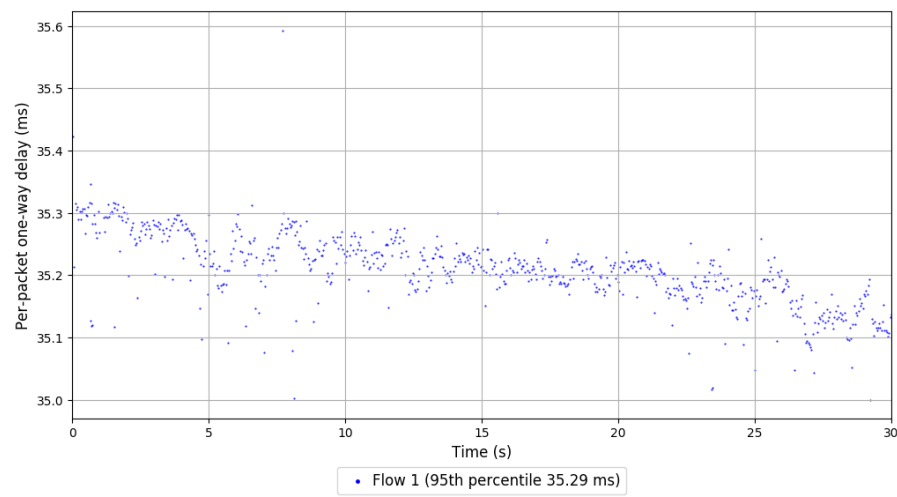
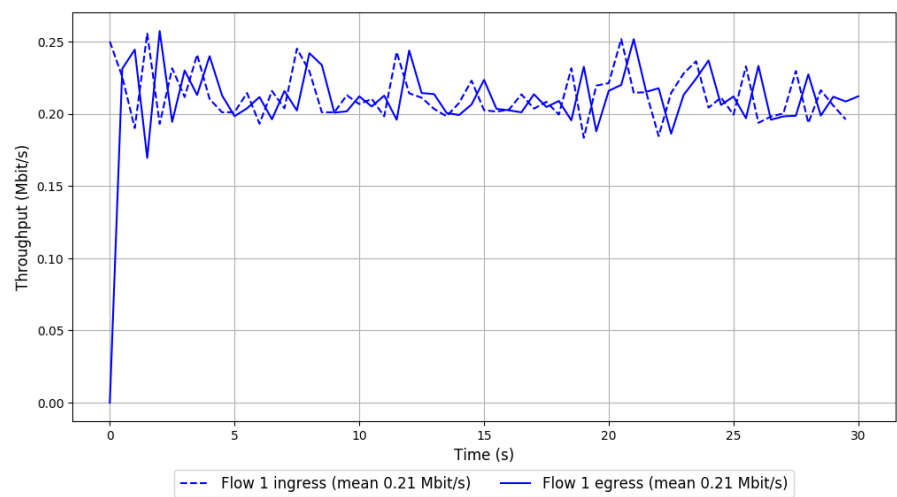
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 35.294 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2018-08-01 01:18:17

End at: 2018-08-01 01:18:47

Local clock offset: 2.636 ms

Remote clock offset: 0.186 ms

Below is generated by plot.py at 2018-08-01 04:04:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 34.599 ms

Loss rate: 0.00%

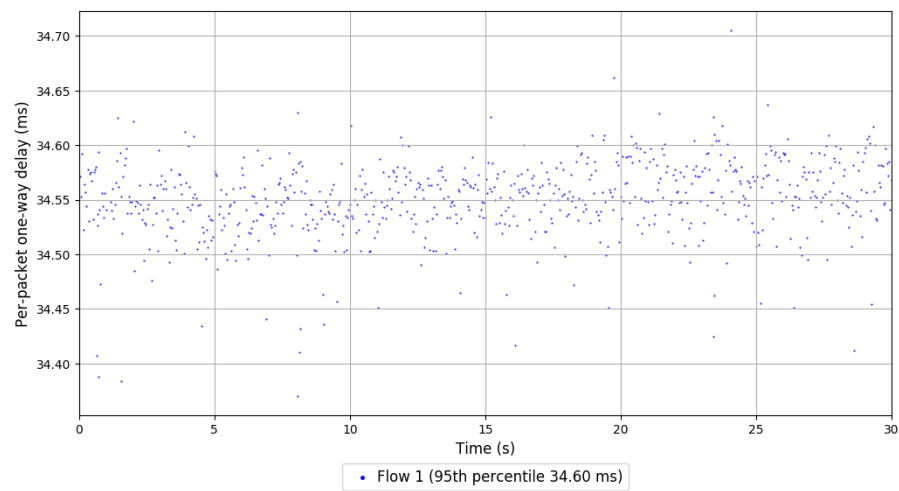
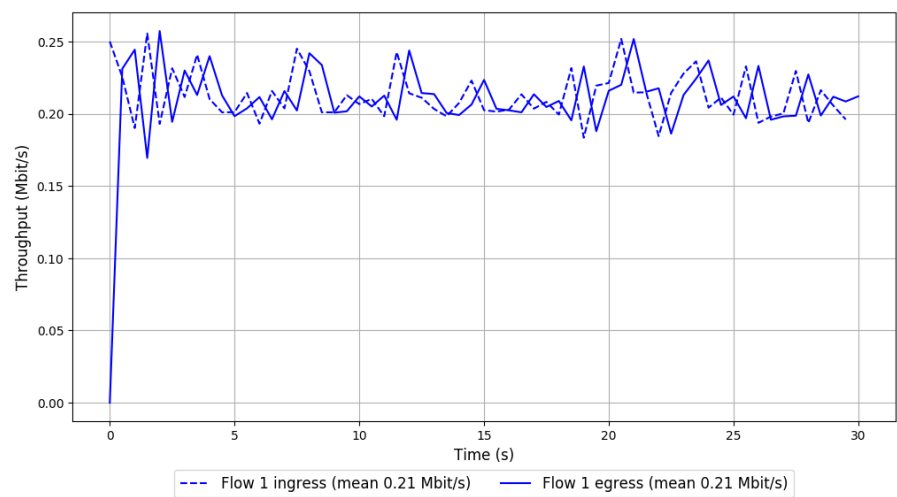
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 34.599 ms

Loss rate: 0.00%

Run 4: Report of SCSReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-08-01 01:40:36

End at: 2018-08-01 01:41:07

Local clock offset: 1.283 ms

Remote clock offset: 0.078 ms

Below is generated by plot.py at 2018-08-01 04:04:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 34.636 ms

Loss rate: 0.00%

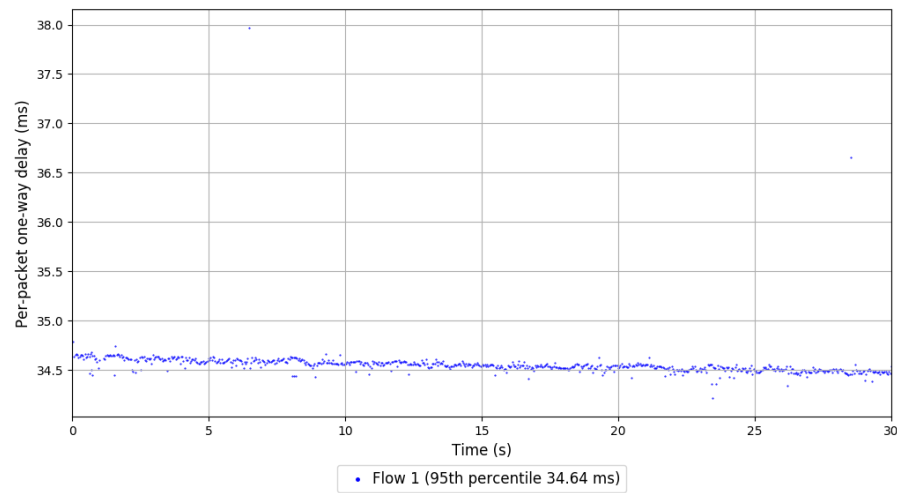
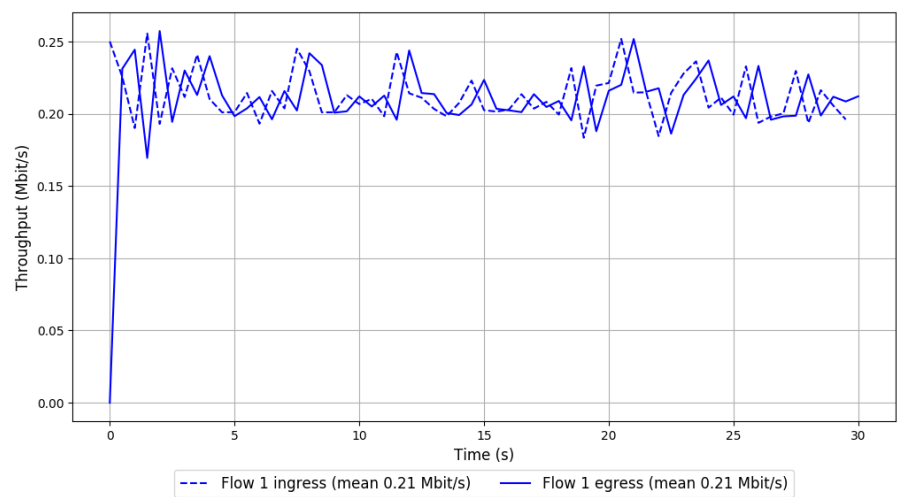
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 34.636 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-08-01 02:02:55

End at: 2018-08-01 02:03:25

Local clock offset: 0.834 ms

Remote clock offset: 2.978 ms

Below is generated by plot.py at 2018-08-01 04:04:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 35.336 ms

Loss rate: 0.00%

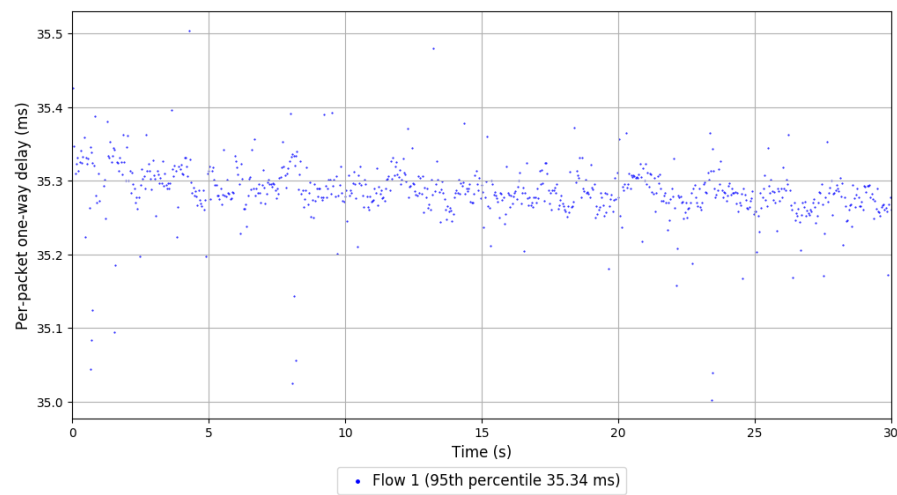
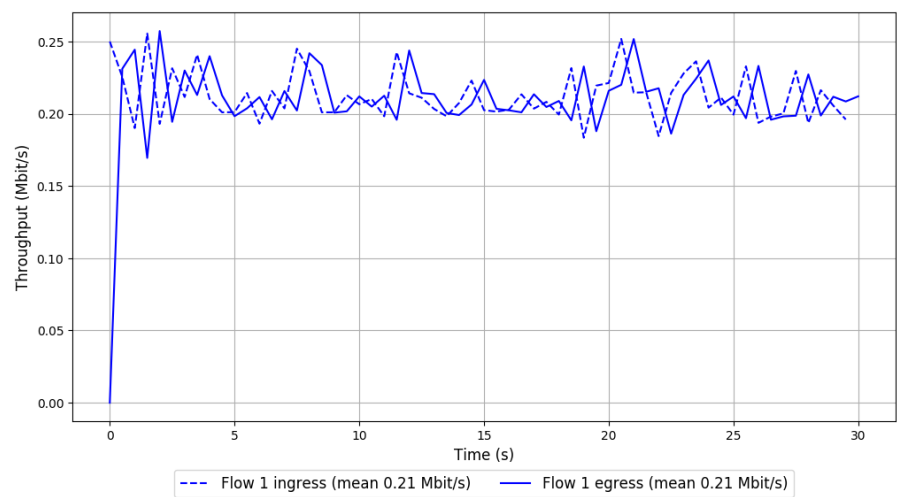
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 35.336 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2018-08-01 02:25:16

End at: 2018-08-01 02:25:46

Local clock offset: 0.573 ms

Remote clock offset: 2.227 ms

Below is generated by plot.py at 2018-08-01 04:04:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 35.370 ms

Loss rate: 0.00%

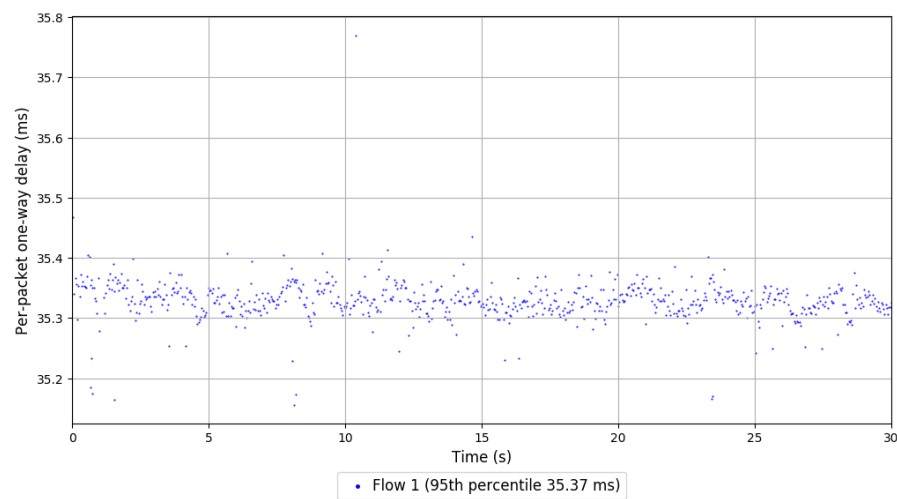
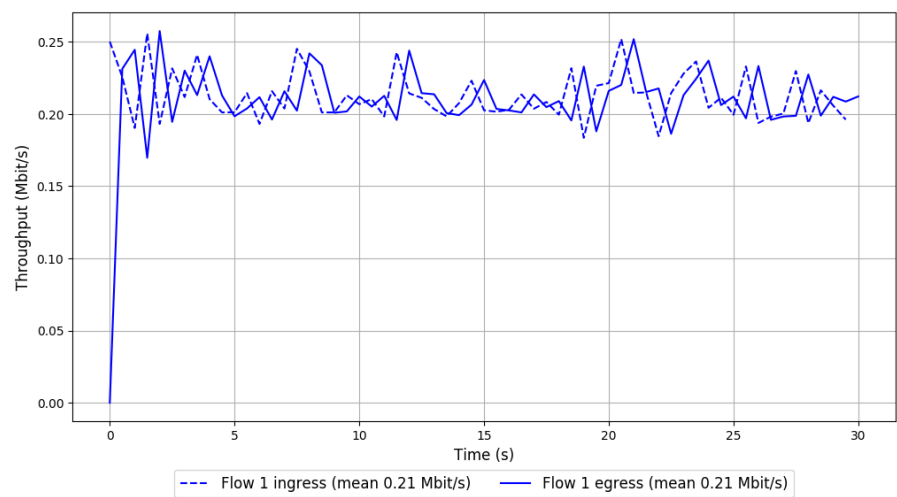
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 35.370 ms

Loss rate: 0.00%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-08-01 02:47:35

End at: 2018-08-01 02:48:05

Local clock offset: 0.366 ms

Remote clock offset: 1.701 ms

Below is generated by plot.py at 2018-08-01 04:04:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 34.532 ms

Loss rate: 0.00%

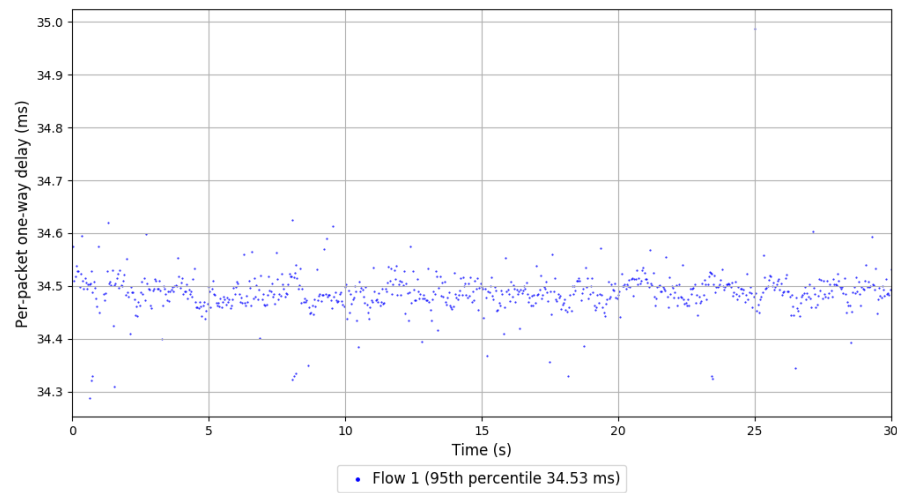
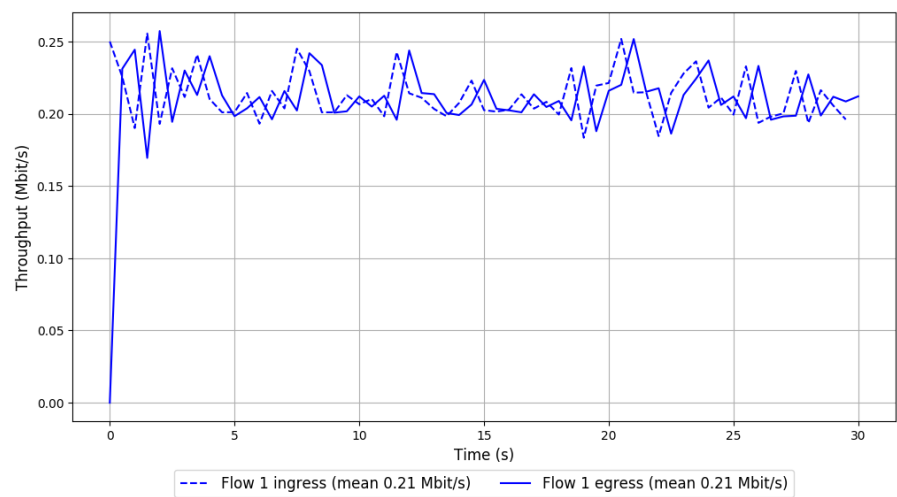
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 34.532 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link

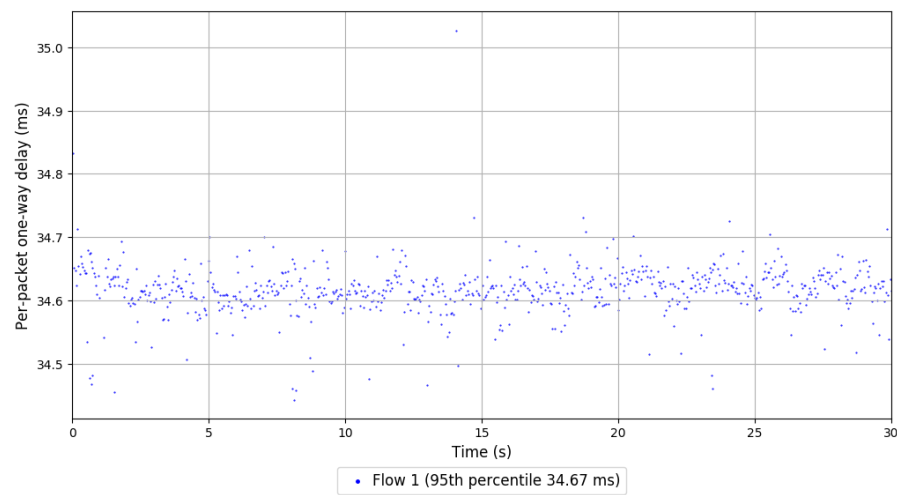
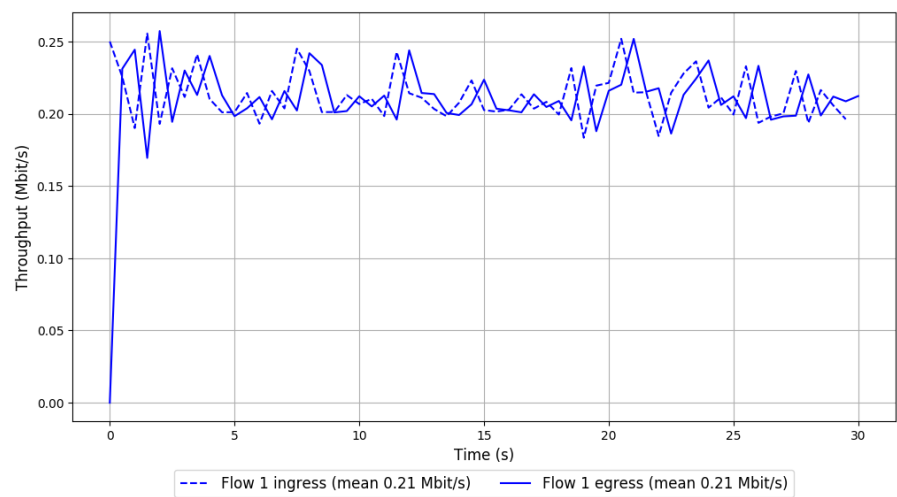


```
Run 9: Statistics of SCReAM

Start at: 2018-08-01 03:09:50
End at: 2018-08-01 03:10:20
Local clock offset: 0.082 ms
Remote clock offset: 0.9 ms

# Below is generated by plot.py at 2018-08-01 04:04:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 34.669 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 34.669 ms
Loss rate: 0.00%
```


Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-08-01 03:32:08

End at: 2018-08-01 03:32:38

Local clock offset: -2.16 ms

Remote clock offset: 6.826 ms

Below is generated by plot.py at 2018-08-01 04:04:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 34.440 ms

Loss rate: 0.00%

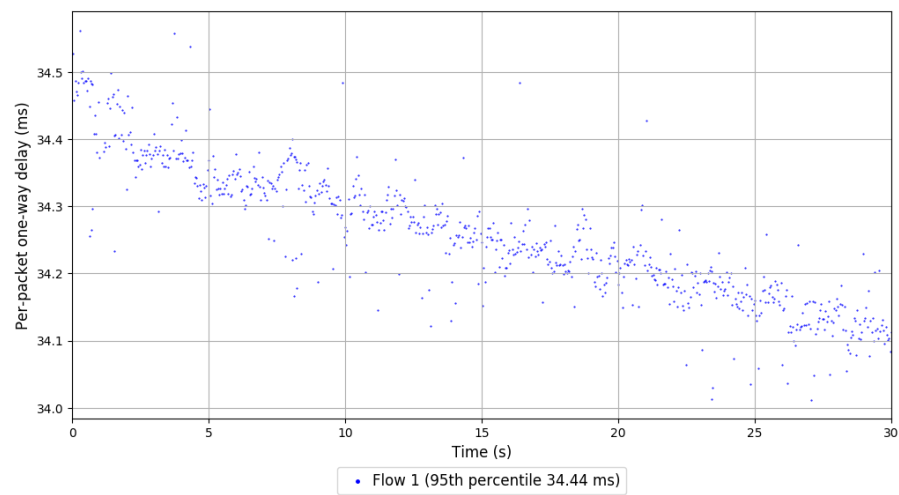
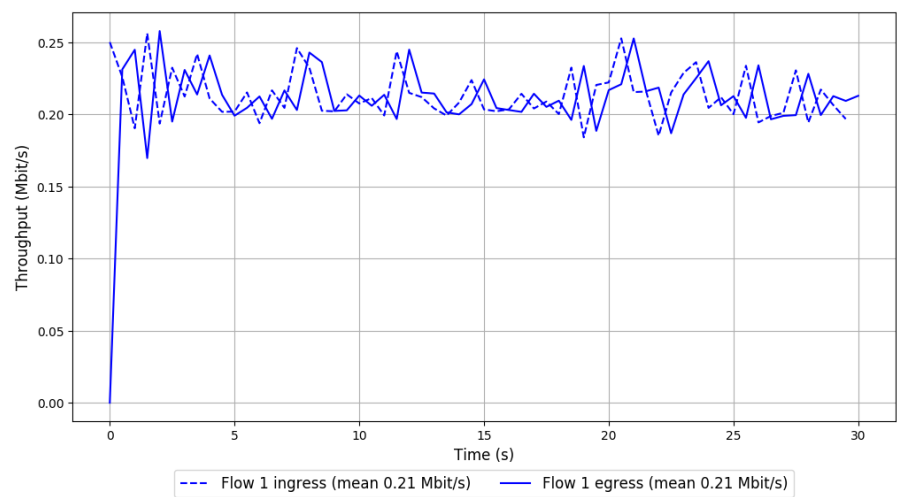
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 34.440 ms

Loss rate: 0.00%

Run 10: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2018-08-01 00:03:33

End at: 2018-08-01 00:04:03

Local clock offset: 8.38 ms

Remote clock offset: 2.906 ms

Below is generated by plot.py at 2018-08-01 04:04:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.01 Mbit/s

95th percentile per-packet one-way delay: 41.594 ms

Loss rate: 0.00%

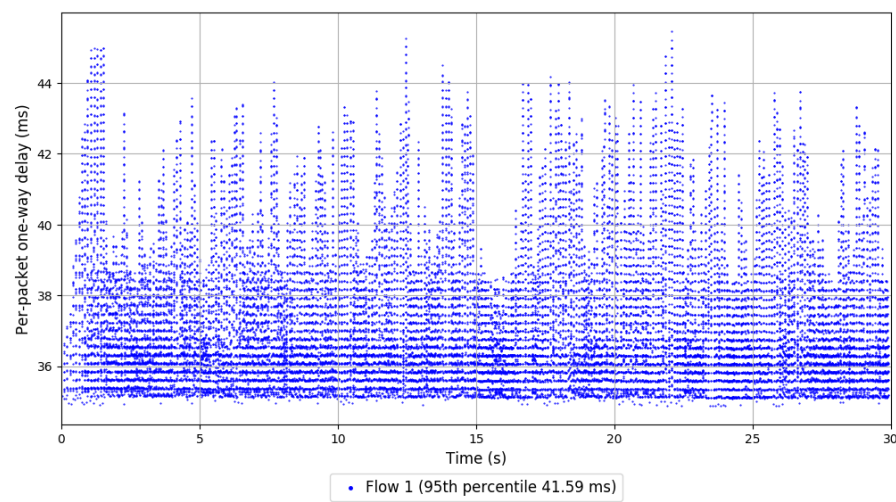
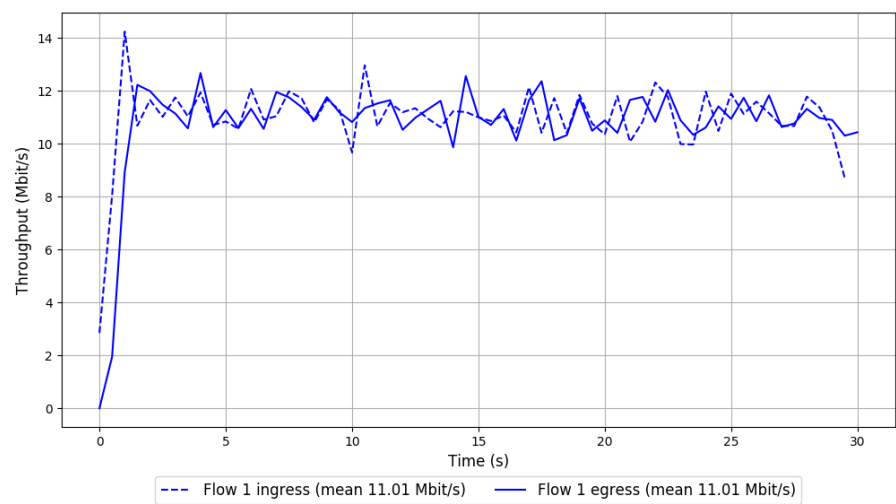
-- Flow 1:

Average throughput: 11.01 Mbit/s

95th percentile per-packet one-way delay: 41.594 ms

Loss rate: 0.00%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-08-01 00:25:44

End at: 2018-08-01 00:26:14

Local clock offset: 7.569 ms

Remote clock offset: 0.851 ms

Below is generated by plot.py at 2018-08-01 04:04:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 10.99 Mbit/s

95th percentile per-packet one-way delay: 41.342 ms

Loss rate: 0.00%

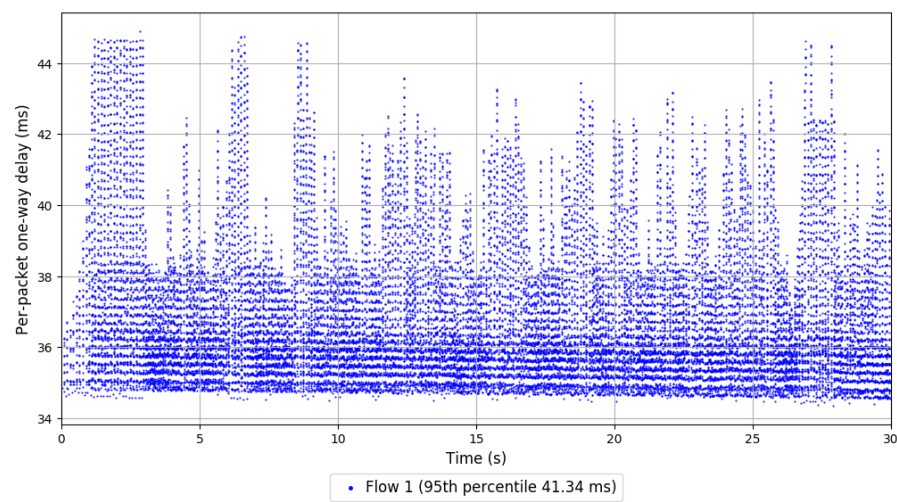
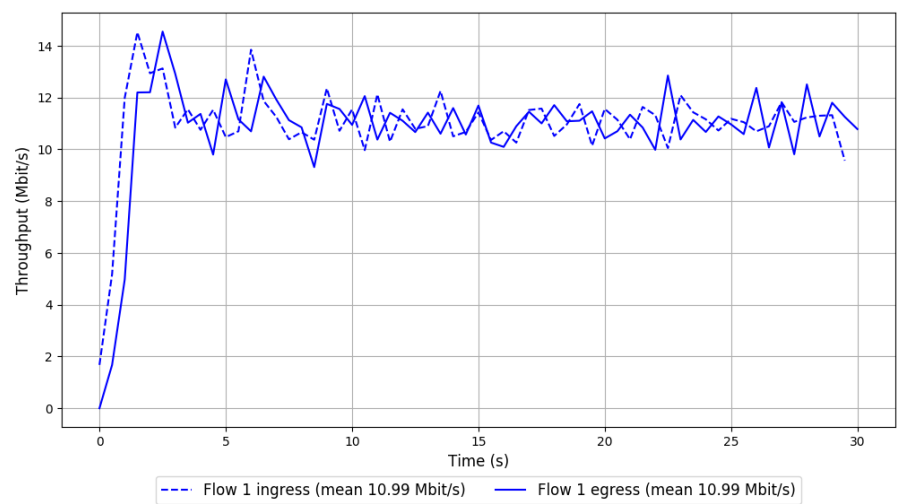
-- Flow 1:

Average throughput: 10.99 Mbit/s

95th percentile per-packet one-way delay: 41.342 ms

Loss rate: 0.00%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-08-01 00:48:02

End at: 2018-08-01 00:48:32

Local clock offset: 4.626 ms

Remote clock offset: 1.38 ms

Below is generated by plot.py at 2018-08-01 04:04:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 10.97 Mbit/s

95th percentile per-packet one-way delay: 40.679 ms

Loss rate: 0.00%

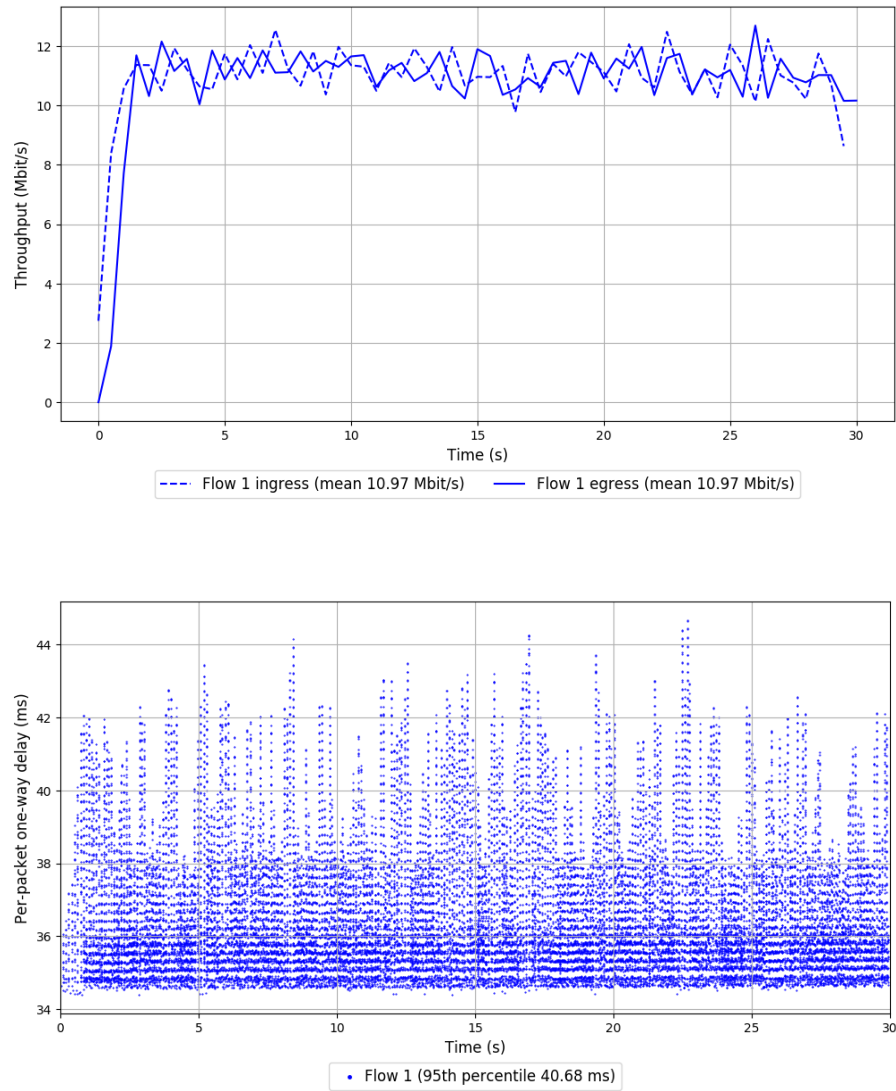
-- Flow 1:

Average throughput: 10.97 Mbit/s

95th percentile per-packet one-way delay: 40.679 ms

Loss rate: 0.00%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-08-01 01:10:24

End at: 2018-08-01 01:10:54

Local clock offset: 2.275 ms

Remote clock offset: 0.596 ms

Below is generated by plot.py at 2018-08-01 04:04:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 10.98 Mbit/s

95th percentile per-packet one-way delay: 40.623 ms

Loss rate: 0.00%

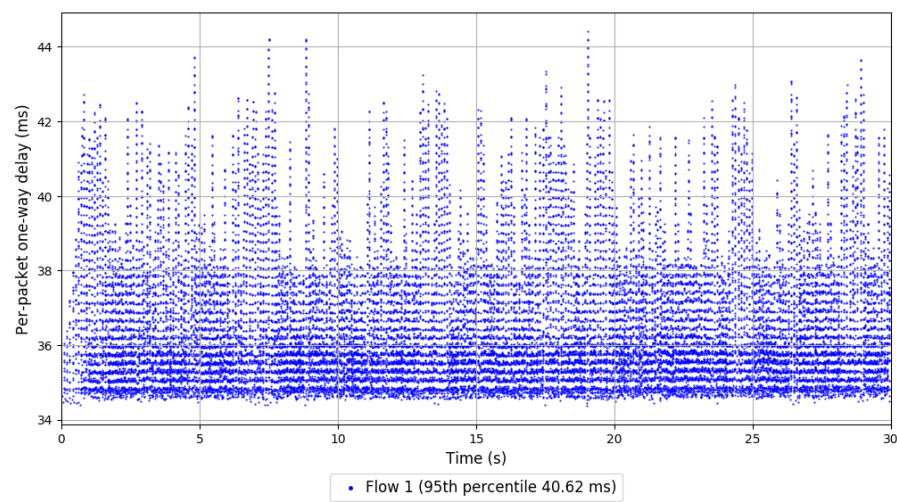
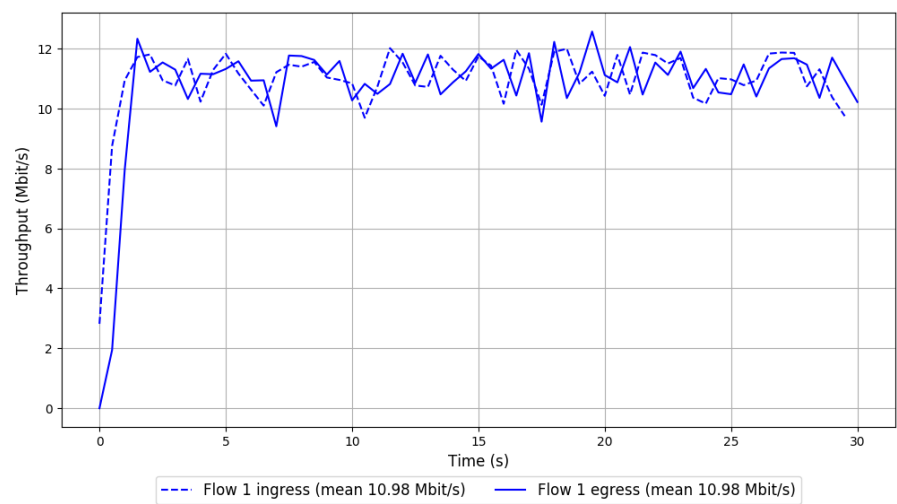
-- Flow 1:

Average throughput: 10.98 Mbit/s

95th percentile per-packet one-way delay: 40.623 ms

Loss rate: 0.00%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-08-01 01:32:43

End at: 2018-08-01 01:33:13

Local clock offset: 1.529 ms

Remote clock offset: 0.062 ms

Below is generated by plot.py at 2018-08-01 04:04:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 10.83 Mbit/s

95th percentile per-packet one-way delay: 41.050 ms

Loss rate: 0.00%

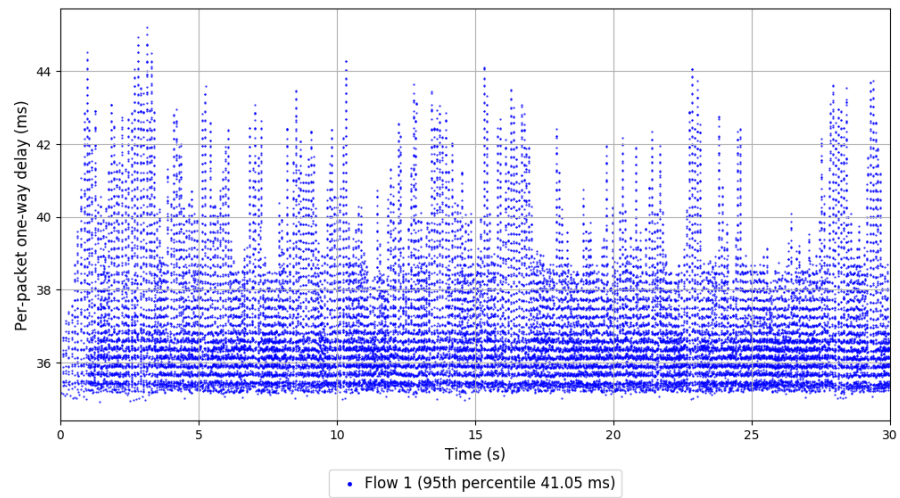
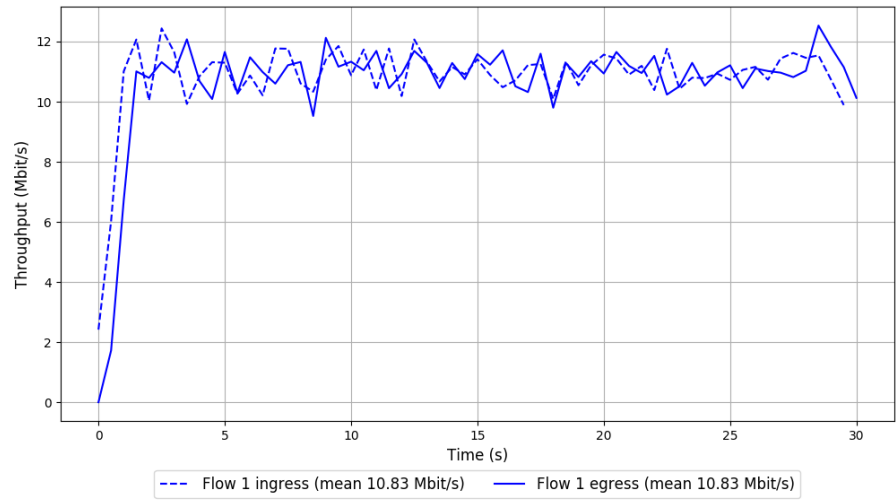
-- Flow 1:

Average throughput: 10.83 Mbit/s

95th percentile per-packet one-way delay: 41.050 ms

Loss rate: 0.00%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-08-01 01:55:02

End at: 2018-08-01 01:55:32

Local clock offset: 1.348 ms

Remote clock offset: 2.453 ms

Below is generated by plot.py at 2018-08-01 04:04:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 10.98 Mbit/s

95th percentile per-packet one-way delay: 40.341 ms

Loss rate: 0.00%

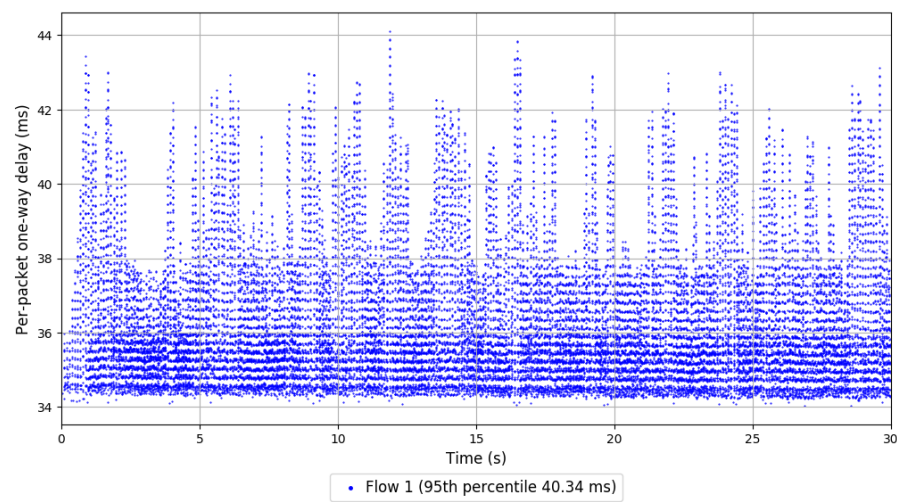
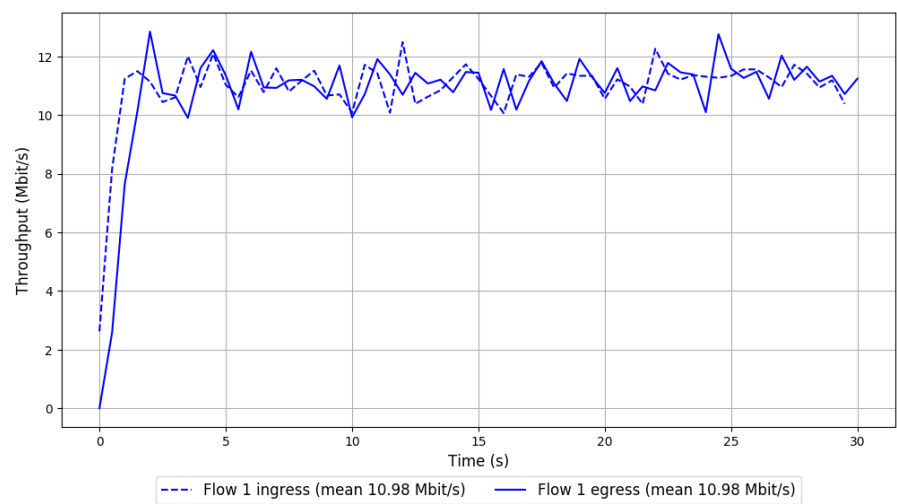
-- Flow 1:

Average throughput: 10.98 Mbit/s

95th percentile per-packet one-way delay: 40.341 ms

Loss rate: 0.00%

Run 6: Report of Sprout — Data Link

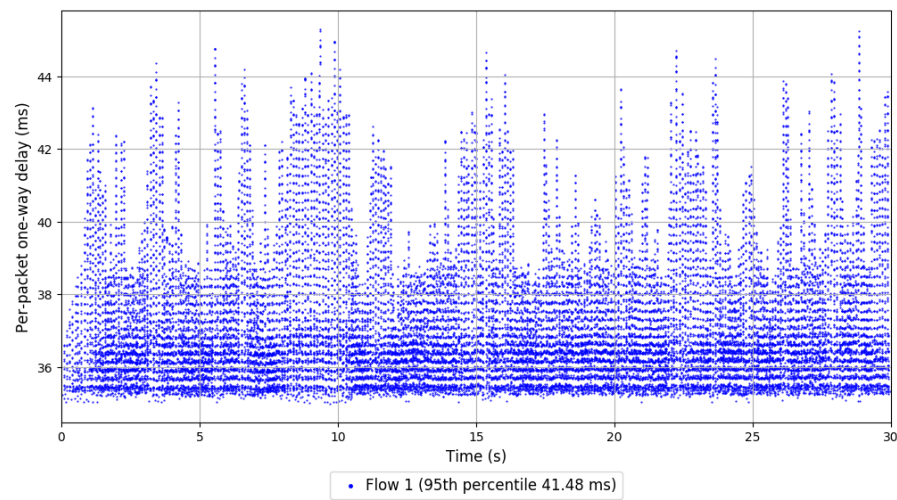
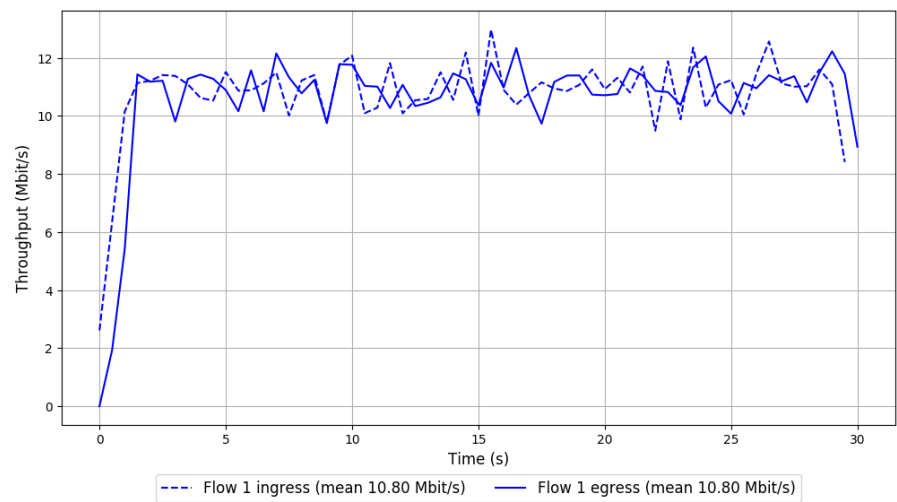


Run 7: Statistics of Sprout

Start at: 2018-08-01 02:17:22
End at: 2018-08-01 02:17:52
Local clock offset: 0.747 ms
Remote clock offset: 2.75 ms

Below is generated by plot.py at 2018-08-01 04:04:21
Datalink statistics
-- Total of 1 flow:
Average throughput: 10.80 Mbit/s
95th percentile per-packet one-way delay: 41.475 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 10.80 Mbit/s
95th percentile per-packet one-way delay: 41.475 ms
Loss rate: 0.00%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-08-01 02:39:43

End at: 2018-08-01 02:40:13

Local clock offset: 0.302 ms

Remote clock offset: 1.974 ms

Below is generated by plot.py at 2018-08-01 04:04:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 10.98 Mbit/s

95th percentile per-packet one-way delay: 40.655 ms

Loss rate: 0.00%

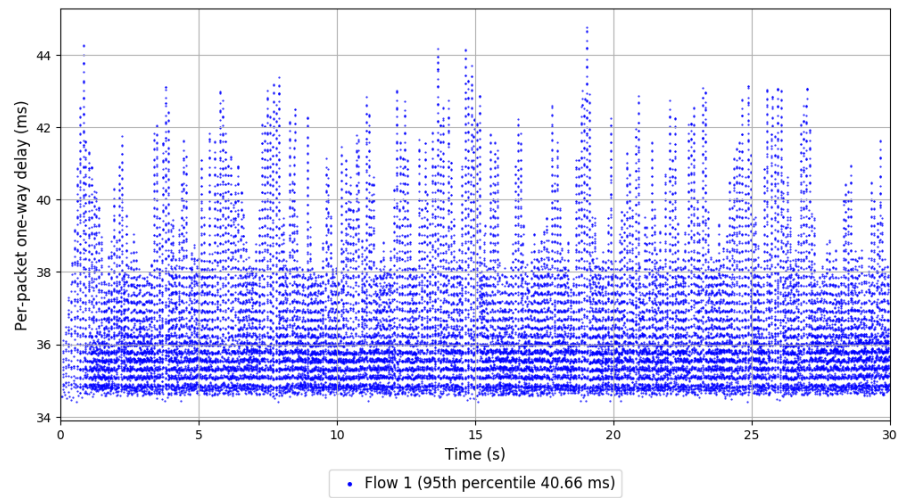
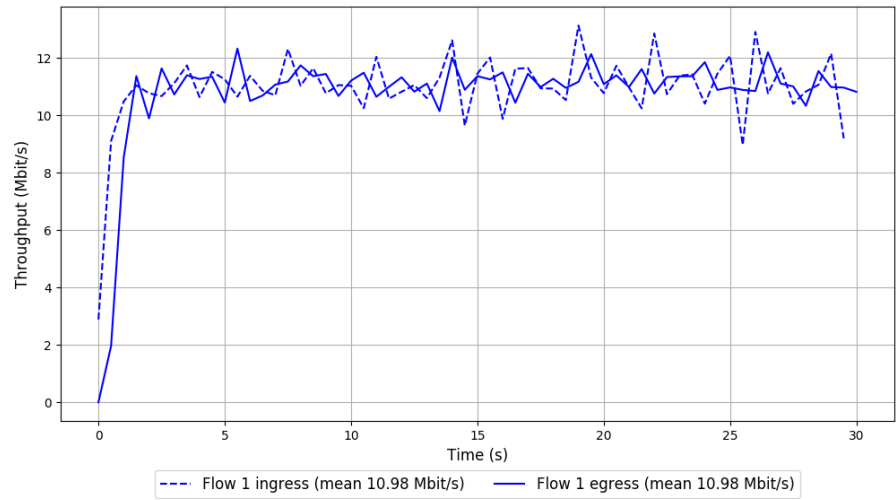
-- Flow 1:

Average throughput: 10.98 Mbit/s

95th percentile per-packet one-way delay: 40.655 ms

Loss rate: 0.00%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-08-01 03:01:58

End at: 2018-08-01 03:02:28

Local clock offset: 0.253 ms

Remote clock offset: 1.28 ms

Below is generated by plot.py at 2018-08-01 04:04:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 10.81 Mbit/s

95th percentile per-packet one-way delay: 40.958 ms

Loss rate: 0.02%

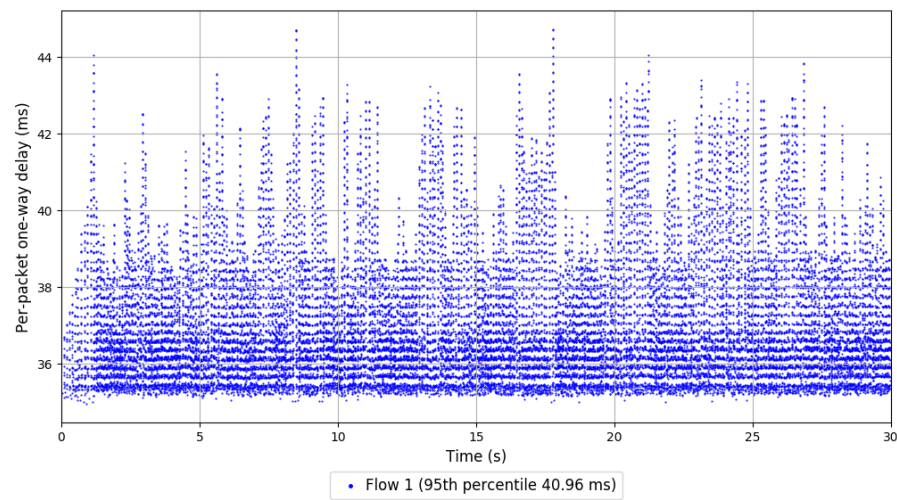
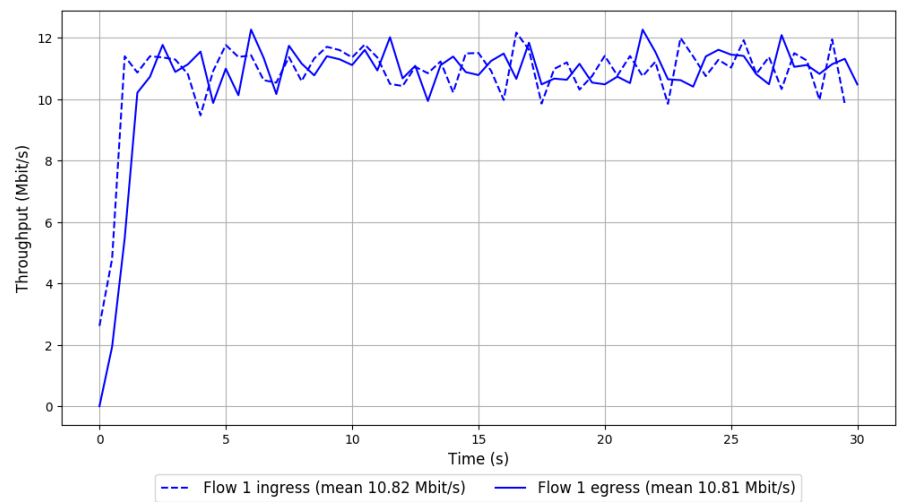
-- Flow 1:

Average throughput: 10.81 Mbit/s

95th percentile per-packet one-way delay: 40.958 ms

Loss rate: 0.02%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-08-01 03:24:16

End at: 2018-08-01 03:24:46

Local clock offset: -0.404 ms

Remote clock offset: 1.292 ms

Below is generated by plot.py at 2018-08-01 04:04:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 10.91 Mbit/s

95th percentile per-packet one-way delay: 40.792 ms

Loss rate: 0.00%

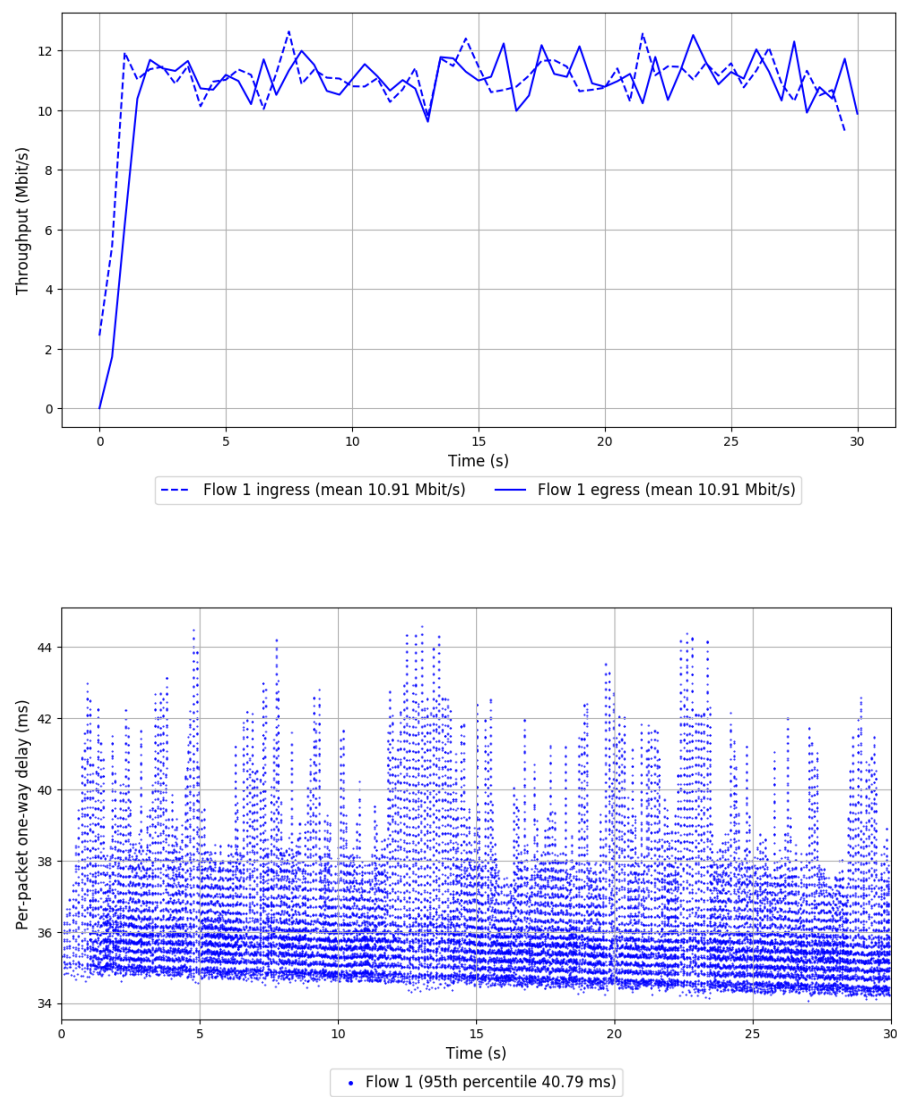
-- Flow 1:

Average throughput: 10.91 Mbit/s

95th percentile per-packet one-way delay: 40.792 ms

Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

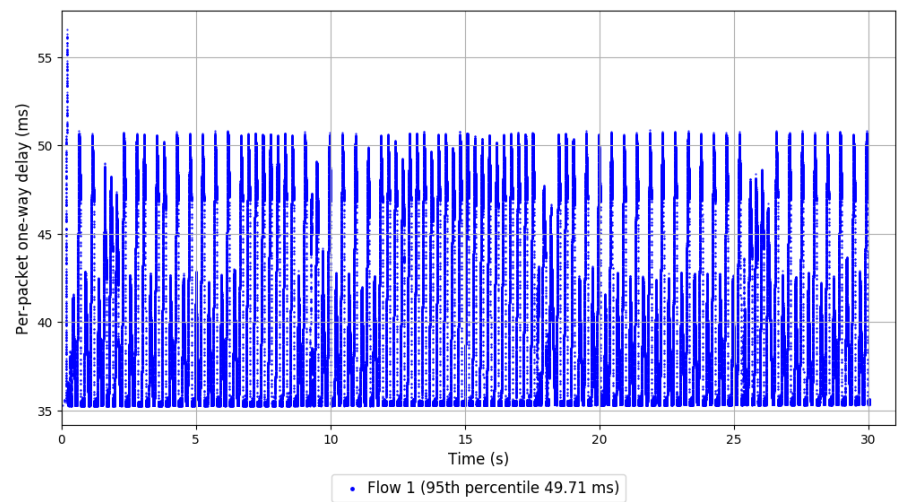
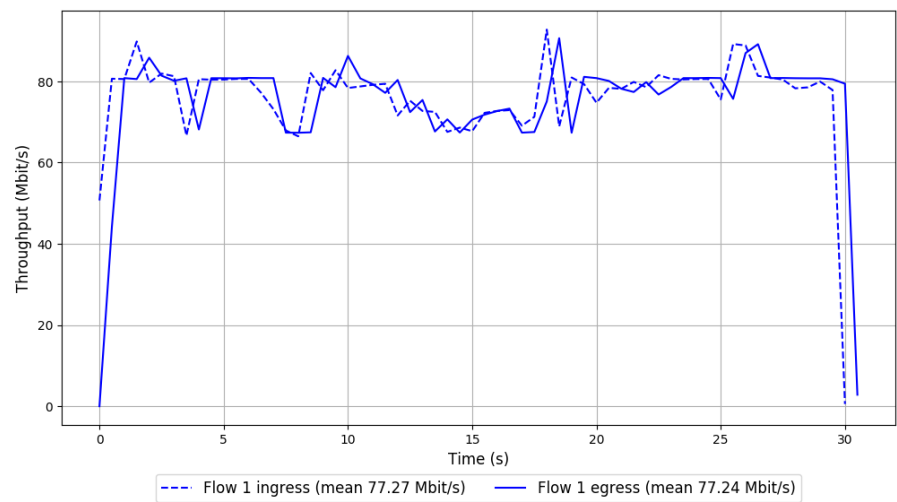


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-08-01 00:09:59
End at: 2018-08-01 00:10:30
Local clock offset: 7.805 ms
Remote clock offset: 2.148 ms

# Below is generated by plot.py at 2018-08-01 04:05:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 77.24 Mbit/s
95th percentile per-packet one-way delay: 49.712 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 77.24 Mbit/s
95th percentile per-packet one-way delay: 49.712 ms
Loss rate: 0.03%
```


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



Run 2: Statistics of TaoVA-100x

Start at: 2018-08-01 00:32:16

End at: 2018-08-01 00:32:46

Local clock offset: 4.961 ms

Remote clock offset: 0.366 ms

Below is generated by plot.py at 2018-08-01 04:05:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.36 Mbit/s

95th percentile per-packet one-way delay: 49.522 ms

Loss rate: 0.07%

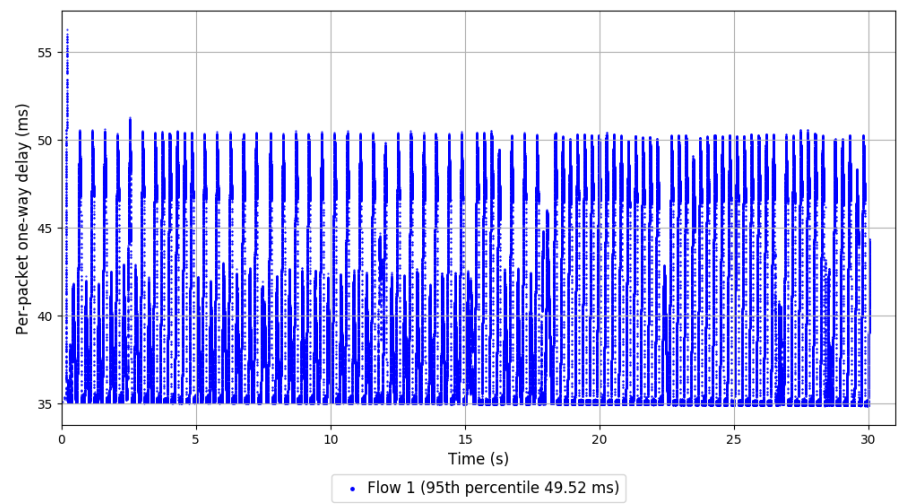
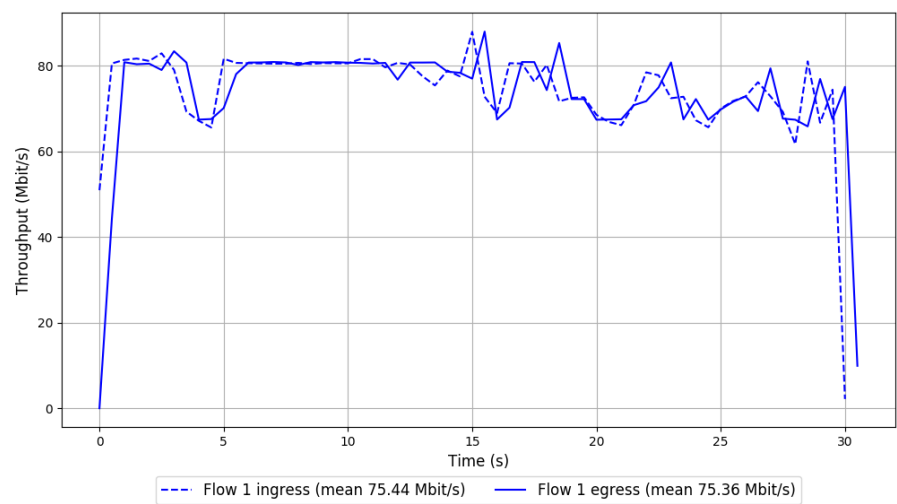
-- Flow 1:

Average throughput: 75.36 Mbit/s

95th percentile per-packet one-way delay: 49.522 ms

Loss rate: 0.07%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-08-01 00:54:34

End at: 2018-08-01 00:55:04

Local clock offset: 4.359 ms

Remote clock offset: 1.279 ms

Below is generated by plot.py at 2018-08-01 04:06:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.51 Mbit/s

95th percentile per-packet one-way delay: 48.418 ms

Loss rate: 0.03%

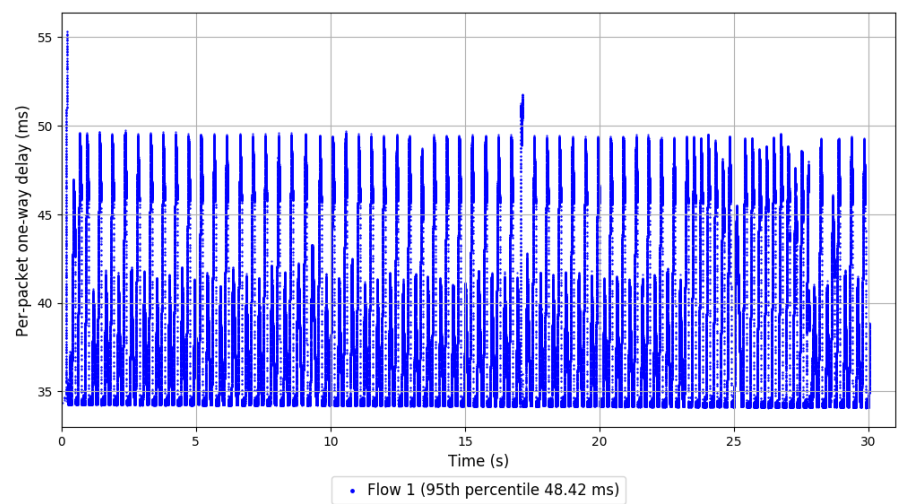
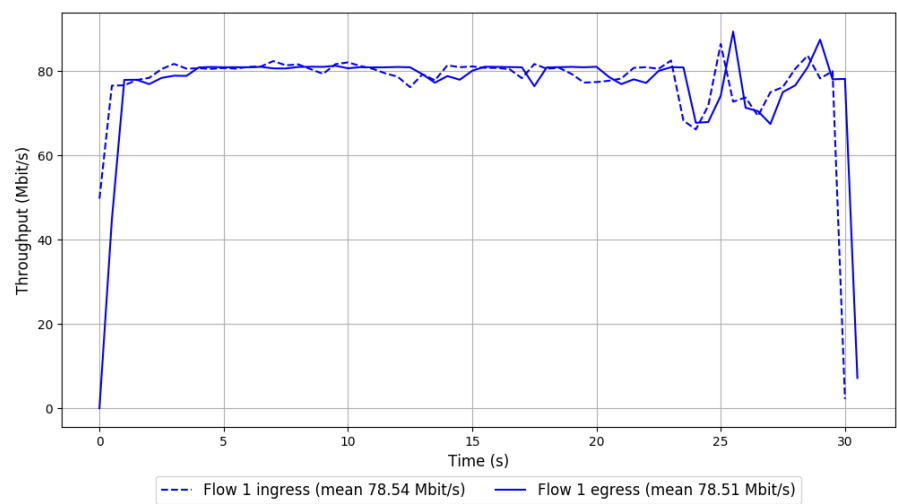
-- Flow 1:

Average throughput: 78.51 Mbit/s

95th percentile per-packet one-way delay: 48.418 ms

Loss rate: 0.03%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-08-01 01:16:56

End at: 2018-08-01 01:17:26

Local clock offset: 2.562 ms

Remote clock offset: 0.241 ms

Below is generated by plot.py at 2018-08-01 04:06:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.38 Mbit/s

95th percentile per-packet one-way delay: 48.842 ms

Loss rate: 0.00%

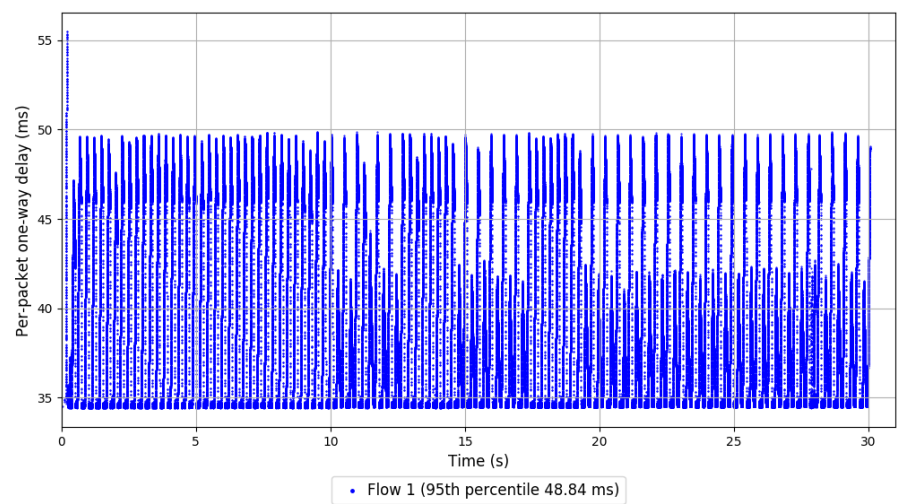
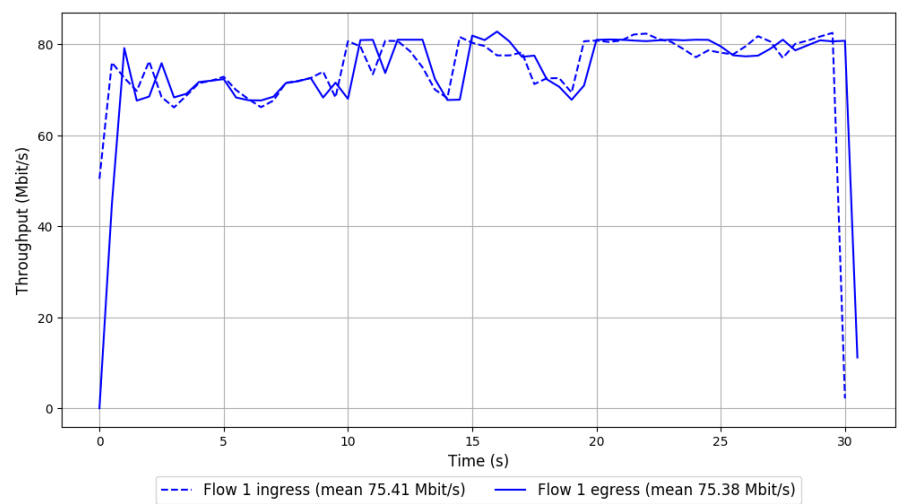
-- Flow 1:

Average throughput: 75.38 Mbit/s

95th percentile per-packet one-way delay: 48.842 ms

Loss rate: 0.00%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-08-01 01:39:16

End at: 2018-08-01 01:39:46

Local clock offset: 1.369 ms

Remote clock offset: 0.056 ms

Below is generated by plot.py at 2018-08-01 04:06:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.68 Mbit/s

95th percentile per-packet one-way delay: 49.855 ms

Loss rate: 0.00%

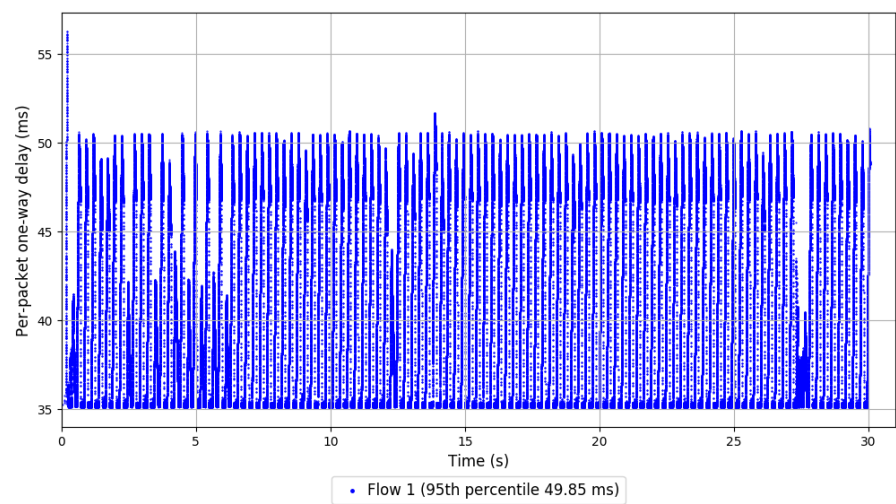
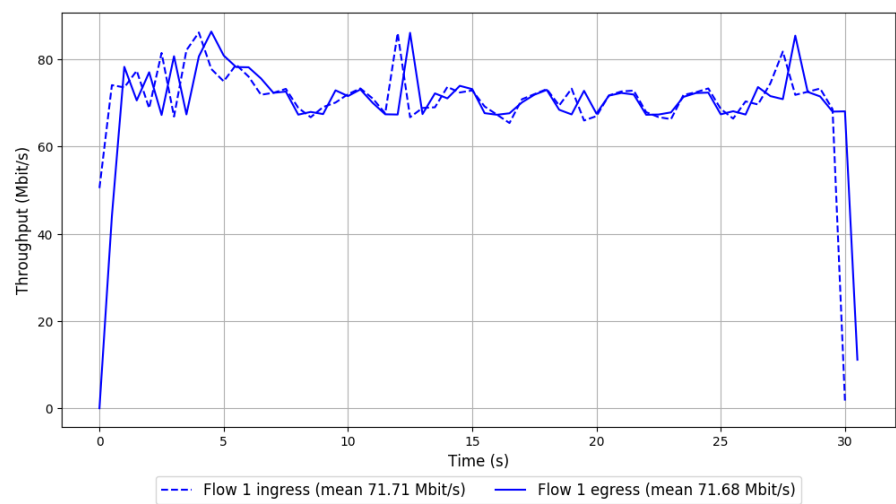
-- Flow 1:

Average throughput: 71.68 Mbit/s

95th percentile per-packet one-way delay: 49.855 ms

Loss rate: 0.00%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-08-01 02:01:35

End at: 2018-08-01 02:02:05

Local clock offset: 0.861 ms

Remote clock offset: 2.896 ms

Below is generated by plot.py at 2018-08-01 04:06:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.92 Mbit/s

95th percentile per-packet one-way delay: 49.780 ms

Loss rate: 0.03%

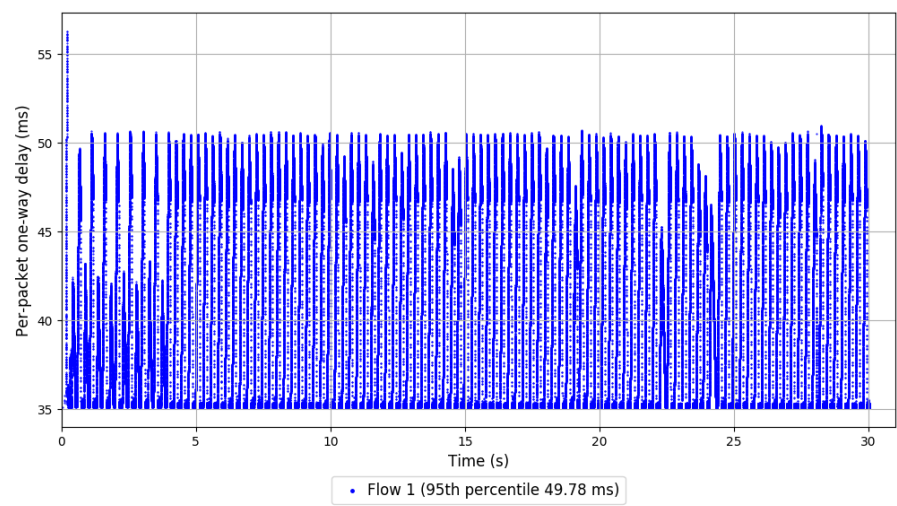
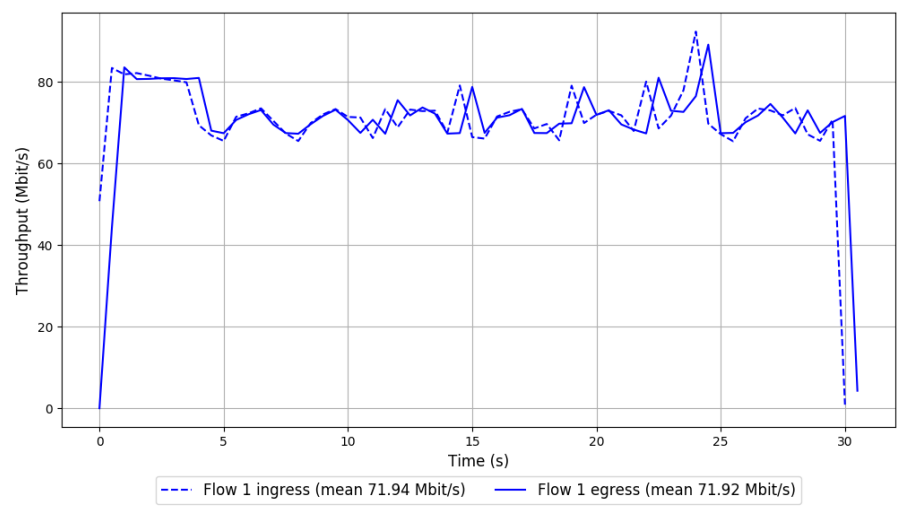
-- Flow 1:

Average throughput: 71.92 Mbit/s

95th percentile per-packet one-way delay: 49.780 ms

Loss rate: 0.03%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-08-01 02:23:55

End at: 2018-08-01 02:24:25

Local clock offset: 0.637 ms

Remote clock offset: 2.373 ms

Below is generated by plot.py at 2018-08-01 04:06:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.22 Mbit/s

95th percentile per-packet one-way delay: 48.975 ms

Loss rate: 0.00%

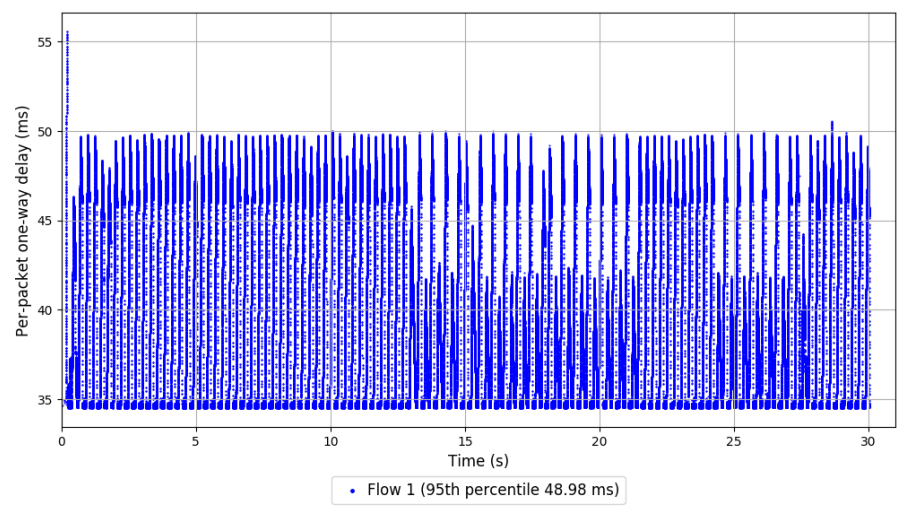
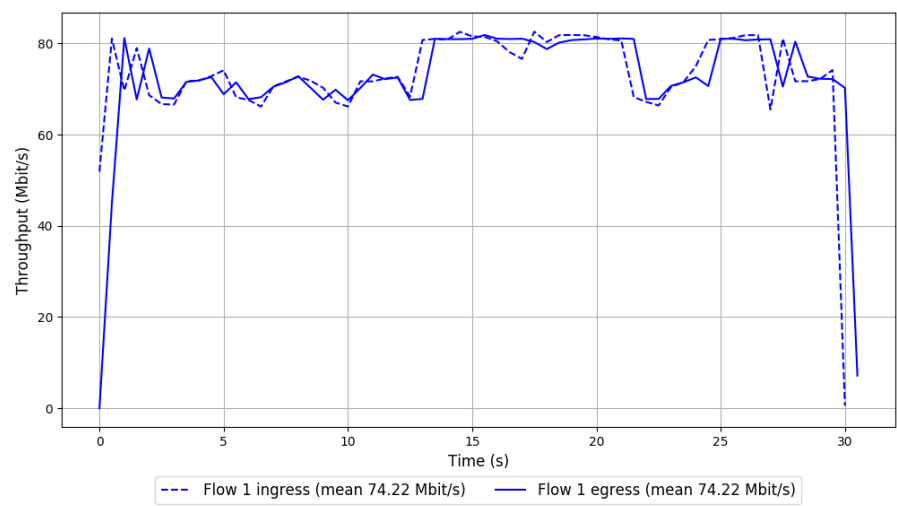
-- Flow 1:

Average throughput: 74.22 Mbit/s

95th percentile per-packet one-way delay: 48.975 ms

Loss rate: 0.00%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-08-01 02:46:15

End at: 2018-08-01 02:46:45

Local clock offset: 0.258 ms

Remote clock offset: 1.791 ms

Below is generated by plot.py at 2018-08-01 04:06:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.53 Mbit/s

95th percentile per-packet one-way delay: 49.915 ms

Loss rate: 0.00%

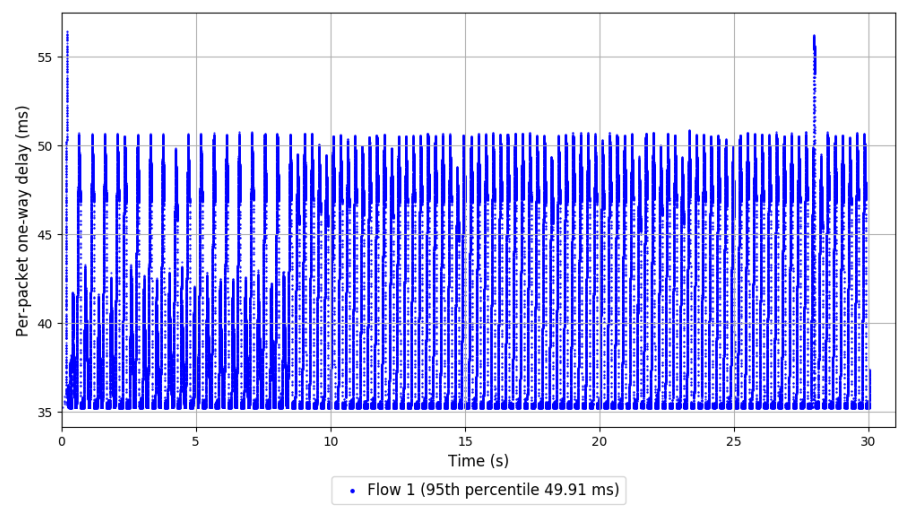
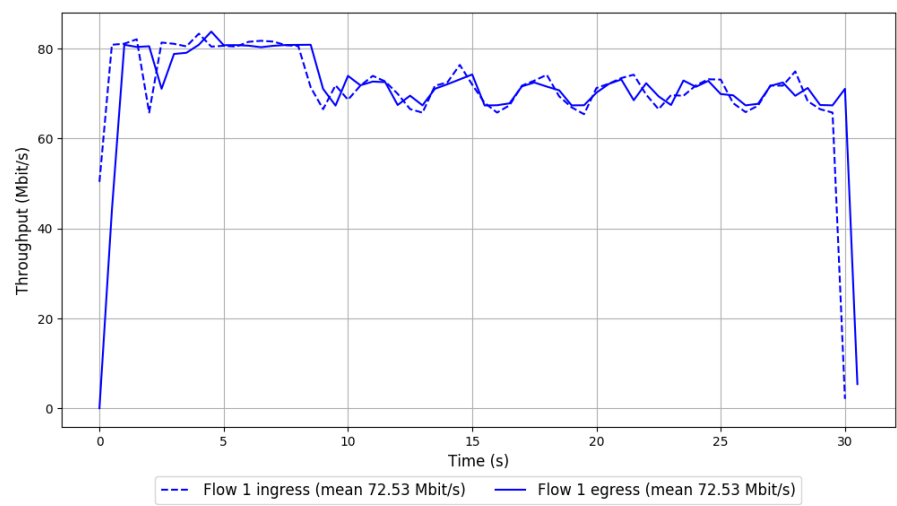
-- Flow 1:

Average throughput: 72.53 Mbit/s

95th percentile per-packet one-way delay: 49.915 ms

Loss rate: 0.00%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-08-01 03:08:29

End at: 2018-08-01 03:08:59

Local clock offset: 0.191 ms

Remote clock offset: 0.977 ms

Below is generated by plot.py at 2018-08-01 04:07:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.59 Mbit/s

95th percentile per-packet one-way delay: 49.508 ms

Loss rate: 0.00%

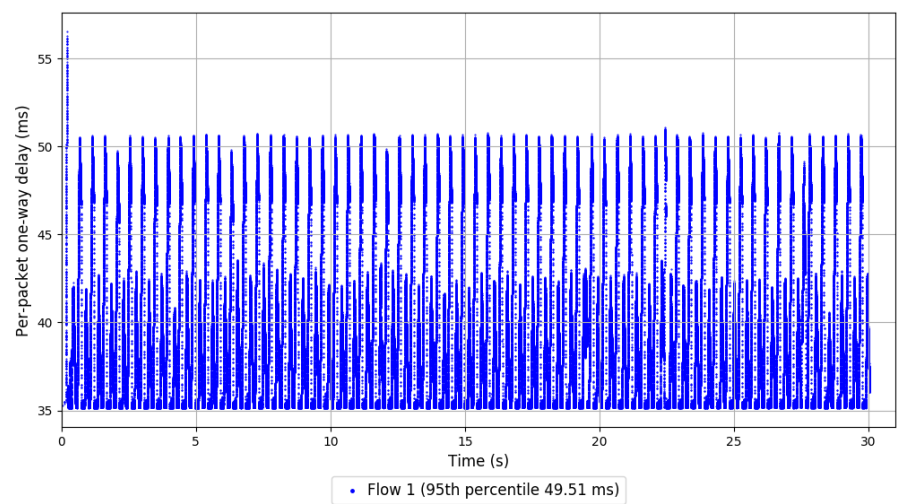
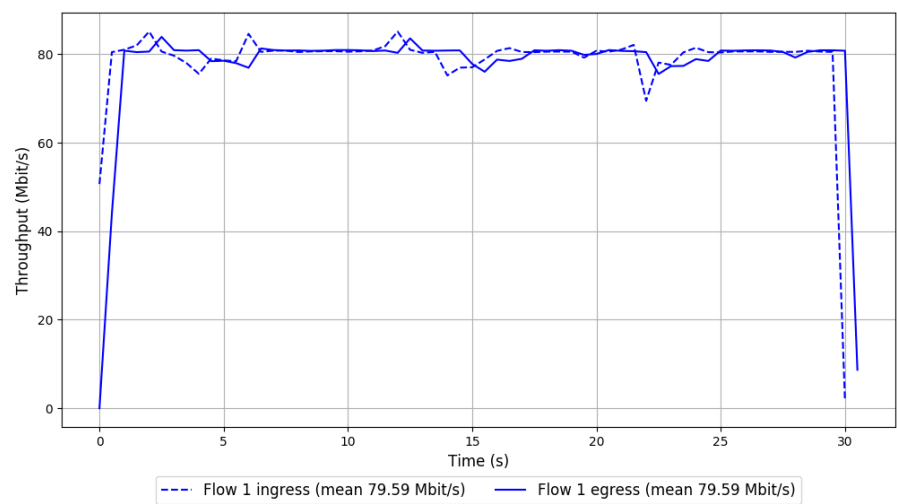
-- Flow 1:

Average throughput: 79.59 Mbit/s

95th percentile per-packet one-way delay: 49.508 ms

Loss rate: 0.00%

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



Run 10: Statistics of TaoVA-100x

Start at: 2018-08-01 03:30:48

End at: 2018-08-01 03:31:18

Local clock offset: -2.036 ms

Remote clock offset: 6.142 ms

Below is generated by plot.py at 2018-08-01 04:07:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.96 Mbit/s

95th percentile per-packet one-way delay: 48.520 ms

Loss rate: 0.00%

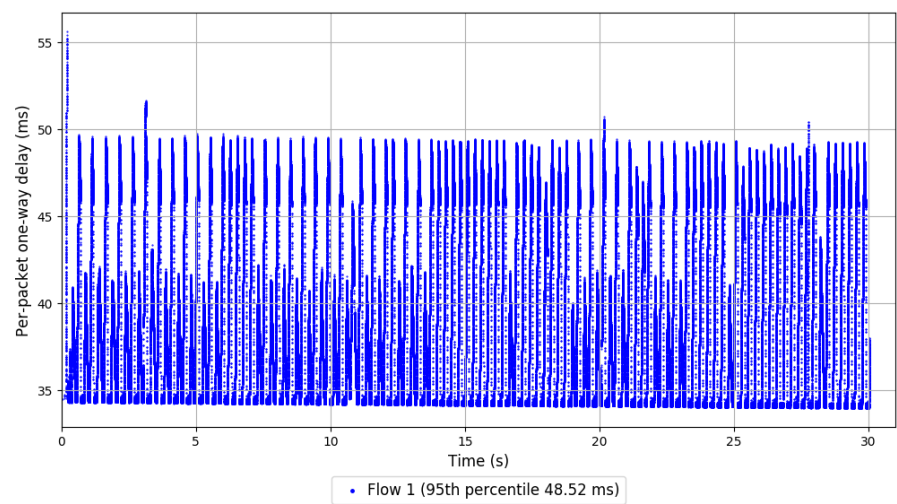
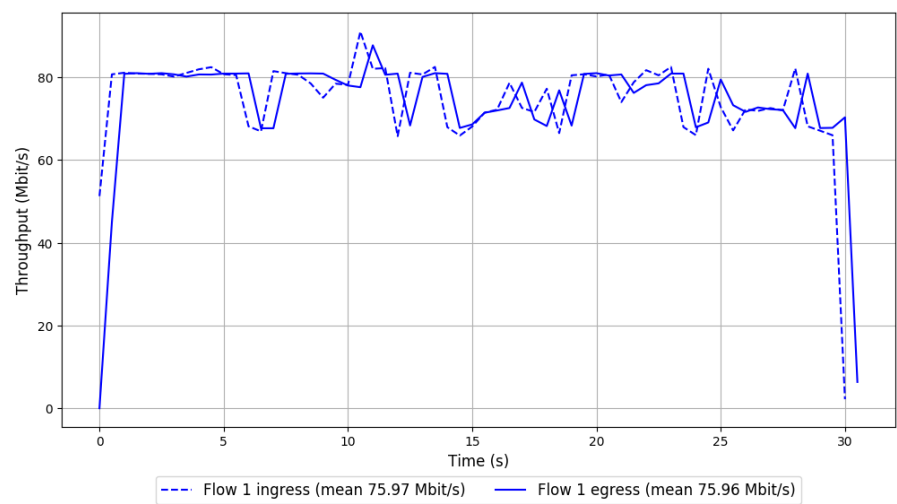
-- Flow 1:

Average throughput: 75.96 Mbit/s

95th percentile per-packet one-way delay: 48.520 ms

Loss rate: 0.00%

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



Run 1: Statistics of TCP Vegas

Start at: 2018-08-01 00:23:05

End at: 2018-08-01 00:23:35

Local clock offset: 9.407 ms

Remote clock offset: 1.067 ms

Below is generated by plot.py at 2018-08-01 04:07:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.22 Mbit/s

95th percentile per-packet one-way delay: 44.658 ms

Loss rate: 0.00%

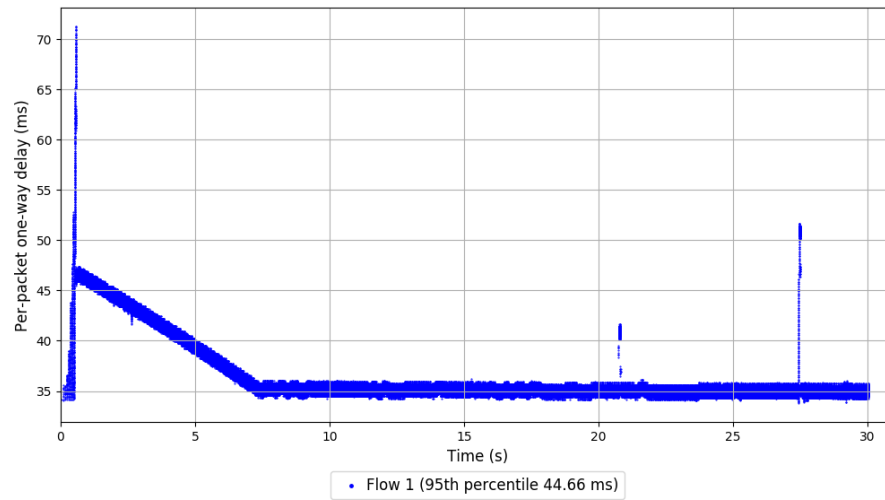
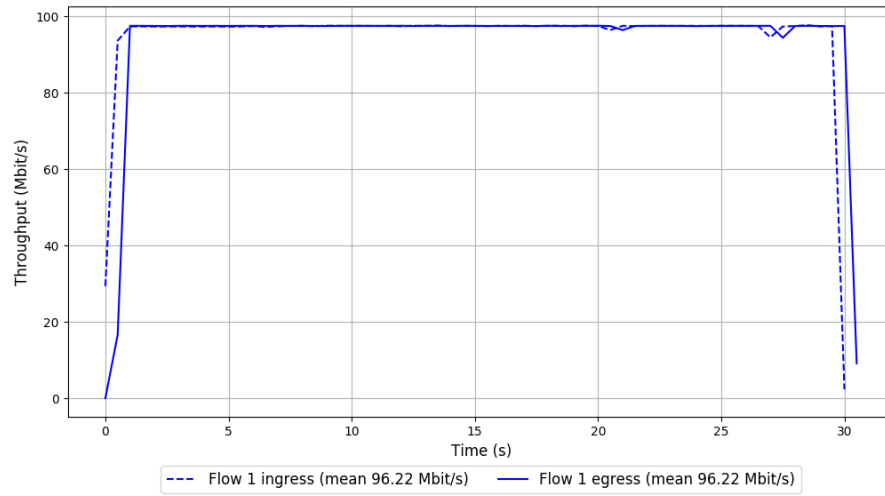
-- Flow 1:

Average throughput: 96.22 Mbit/s

95th percentile per-packet one-way delay: 44.658 ms

Loss rate: 0.00%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-08-01 00:45:24

End at: 2018-08-01 00:45:54

Local clock offset: 4.515 ms

Remote clock offset: 1.383 ms

Below is generated by plot.py at 2018-08-01 04:07:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 80.04 Mbit/s

95th percentile per-packet one-way delay: 44.982 ms

Loss rate: 0.38%

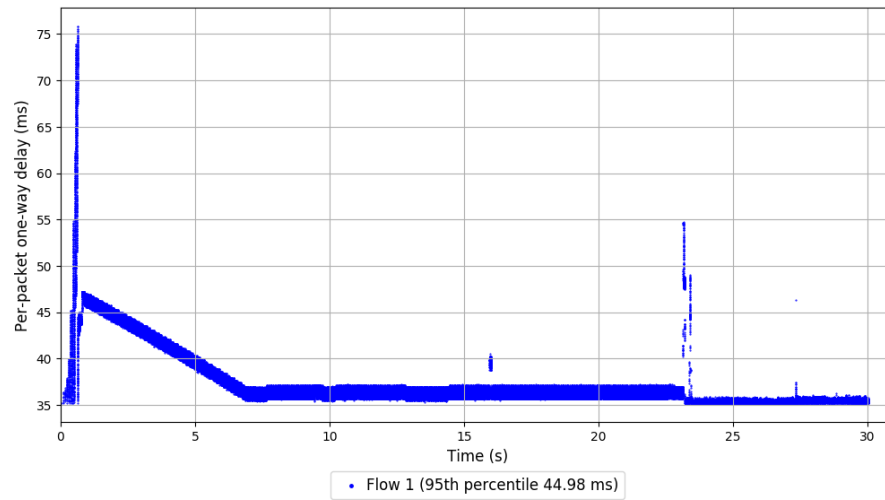
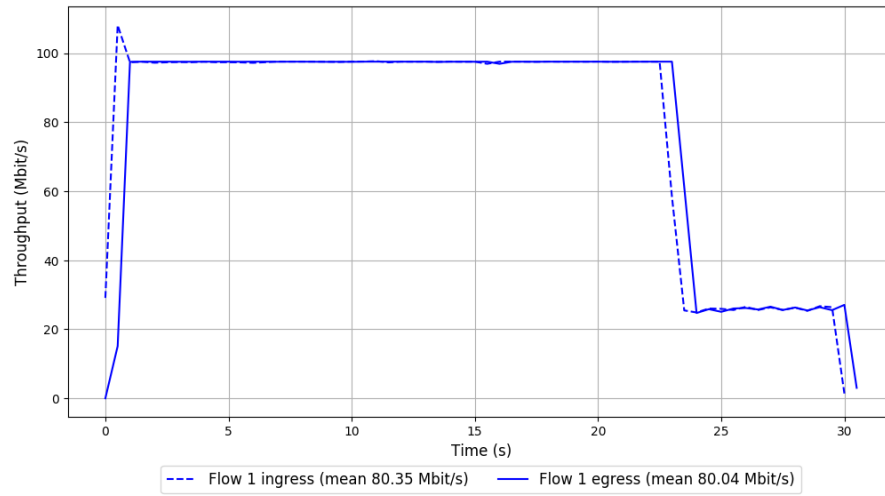
-- Flow 1:

Average throughput: 80.04 Mbit/s

95th percentile per-packet one-way delay: 44.982 ms

Loss rate: 0.38%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-08-01 01:07:45

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

Local clock offset: 2.382 ms

Remote clock offset: 0.716 ms

Below is generated by plot.py at 2018-08-01 04:07:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.99 Mbit/s

95th percentile per-packet one-way delay: 35.783 ms

Loss rate: 0.62%

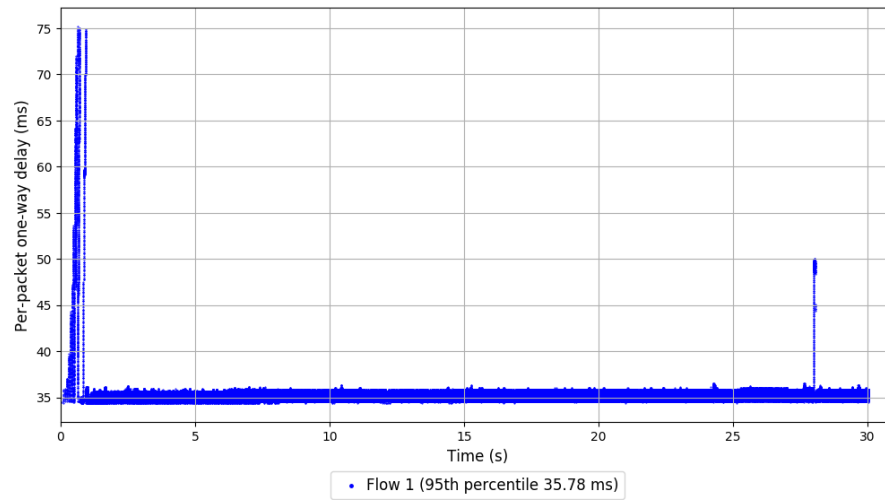
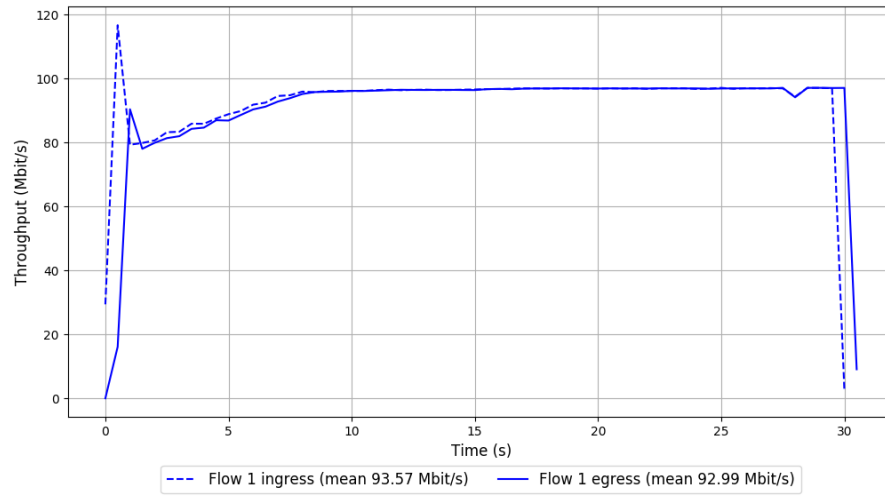
-- Flow 1:

Average throughput: 92.99 Mbit/s

95th percentile per-packet one-way delay: 35.783 ms

Loss rate: 0.62%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-08-01 01:30:05

End at: 2018-08-01 01:30:35

Local clock offset: 1.701 ms

Remote clock offset: 0.029 ms

Below is generated by plot.py at 2018-08-01 04:07:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.48 Mbit/s

95th percentile per-packet one-way delay: 43.418 ms

Loss rate: 0.33%

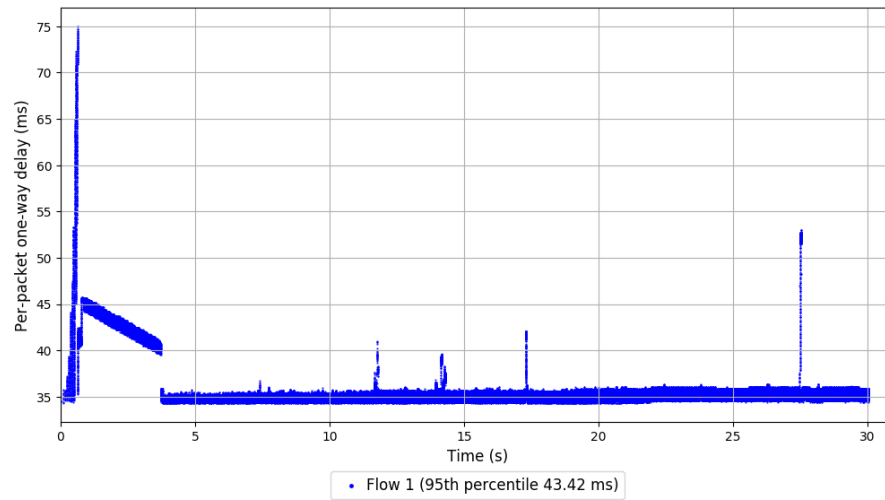
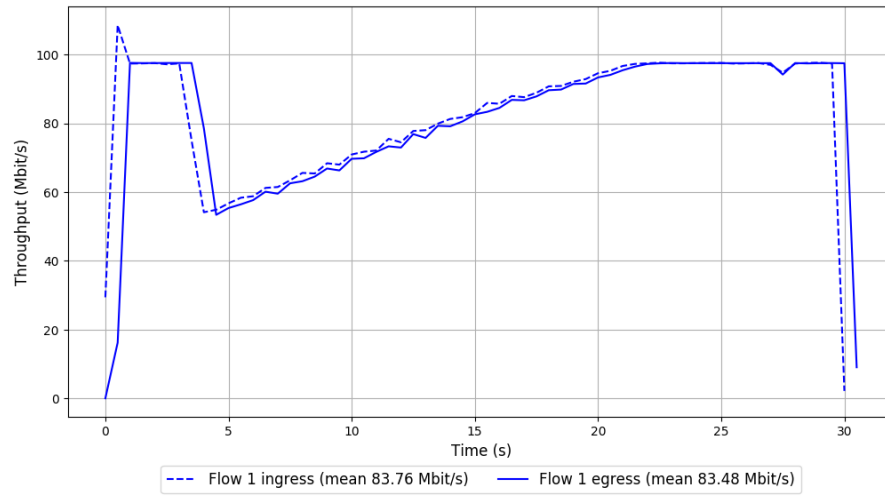
-- Flow 1:

Average throughput: 83.48 Mbit/s

95th percentile per-packet one-way delay: 43.418 ms

Loss rate: 0.33%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-08-01 01:52:23

End at: 2018-08-01 01:52:53

Local clock offset: 1.614 ms

Remote clock offset: 2.198 ms

Below is generated by plot.py at 2018-08-01 04:07:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.64 Mbit/s

95th percentile per-packet one-way delay: 35.651 ms

Loss rate: 0.30%

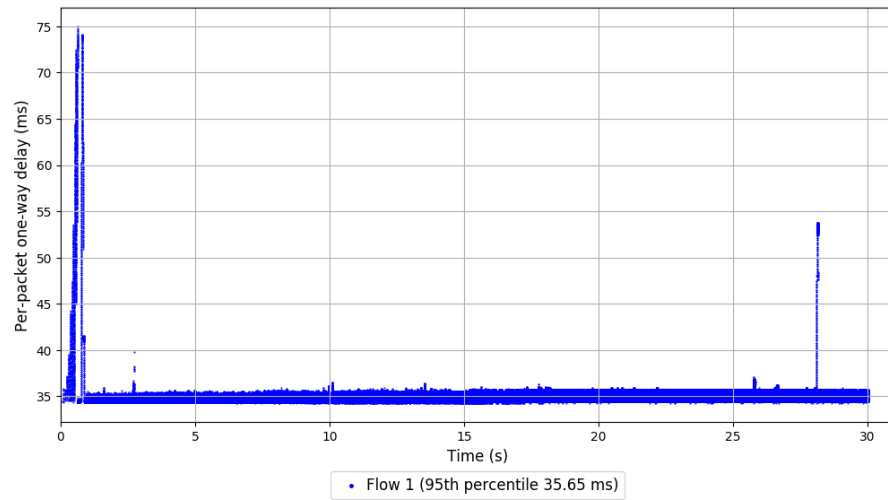
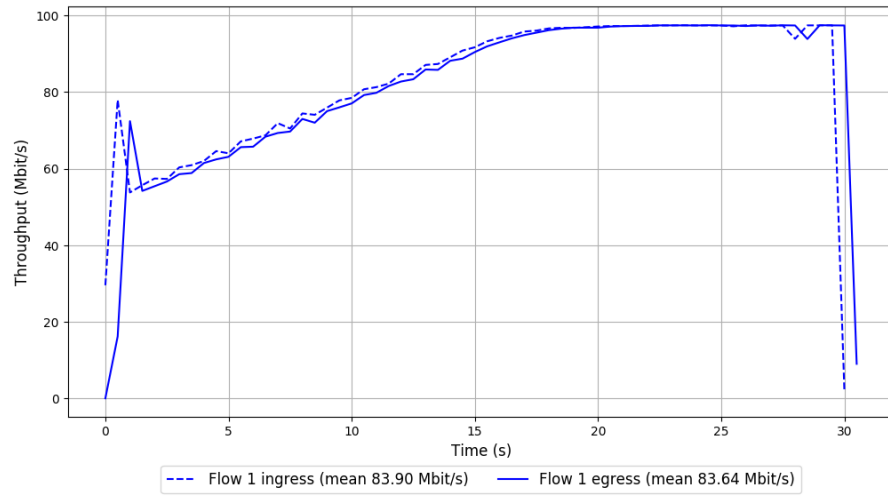
-- Flow 1:

Average throughput: 83.64 Mbit/s

95th percentile per-packet one-way delay: 35.651 ms

Loss rate: 0.30%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-08-01 02:14:43

End at: 2018-08-01 02:15:13

Local clock offset: 0.711 ms

Remote clock offset: 2.967 ms

Below is generated by plot.py at 2018-08-01 04:07:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.96 Mbit/s

95th percentile per-packet one-way delay: 35.909 ms

Loss rate: 0.76%

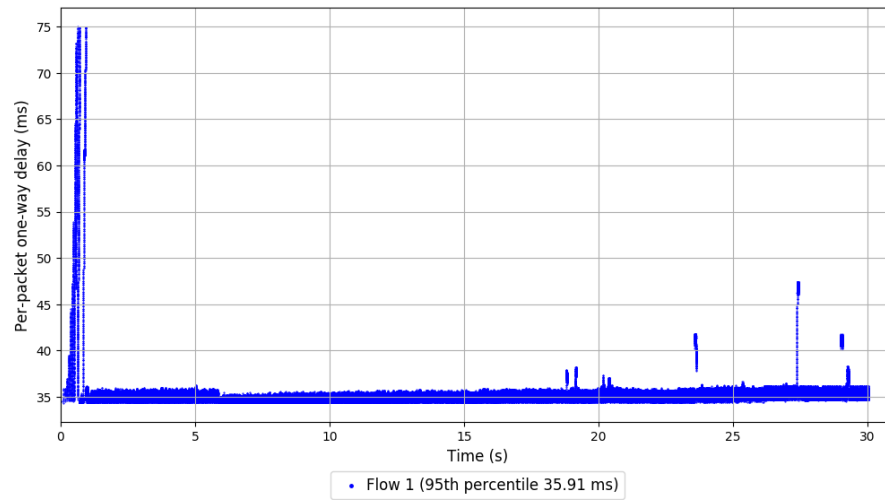
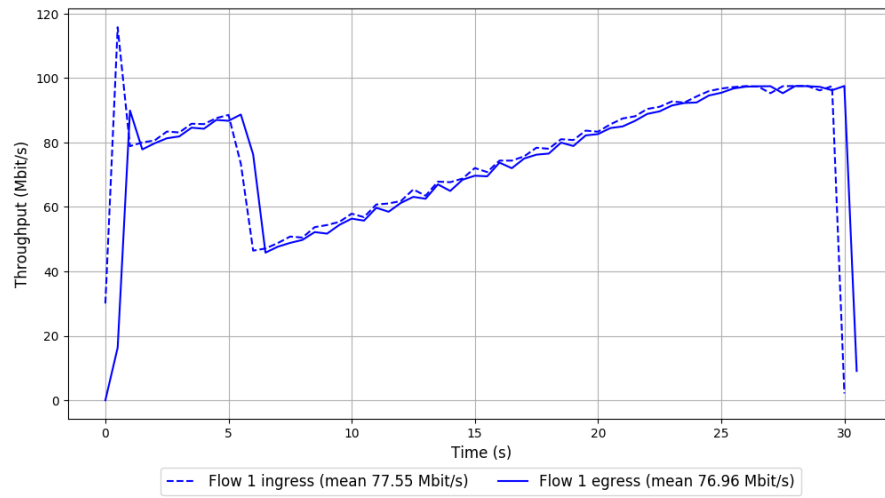
-- Flow 1:

Average throughput: 76.96 Mbit/s

95th percentile per-packet one-way delay: 35.909 ms

Loss rate: 0.76%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-08-01 02:37:02

End at: 2018-08-01 02:37:32

Local clock offset: 0.406 ms

Remote clock offset: 1.958 ms

Below is generated by plot.py at 2018-08-01 04:08:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.18 Mbit/s

95th percentile per-packet one-way delay: 43.926 ms

Loss rate: 0.27%

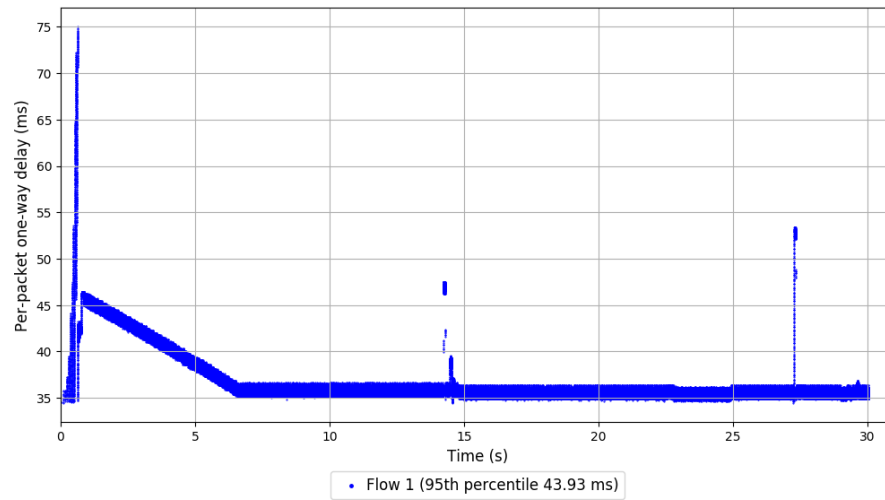
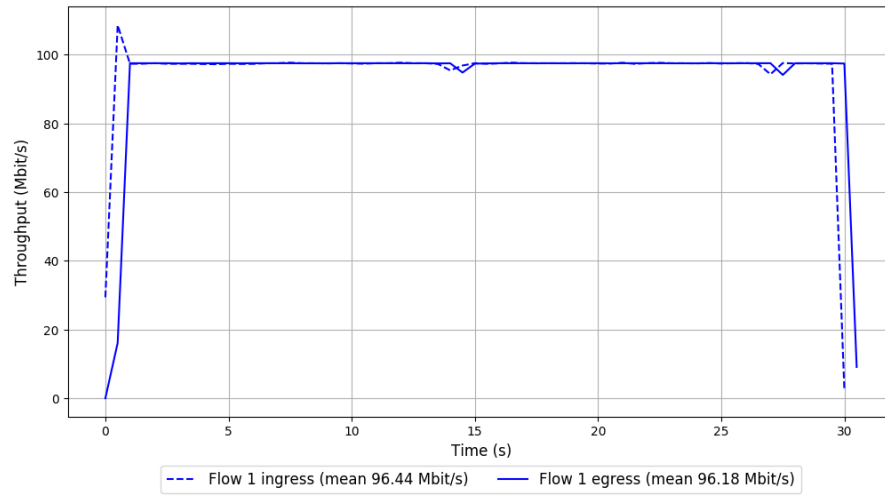
-- Flow 1:

Average throughput: 96.18 Mbit/s

95th percentile per-packet one-way delay: 43.926 ms

Loss rate: 0.27%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-08-01 02:59:19

End at: 2018-08-01 02:59:49

Local clock offset: 0.274 ms

Remote clock offset: 1.419 ms

Below is generated by plot.py at 2018-08-01 04:08:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.26 Mbit/s

95th percentile per-packet one-way delay: 43.028 ms

Loss rate: 0.27%

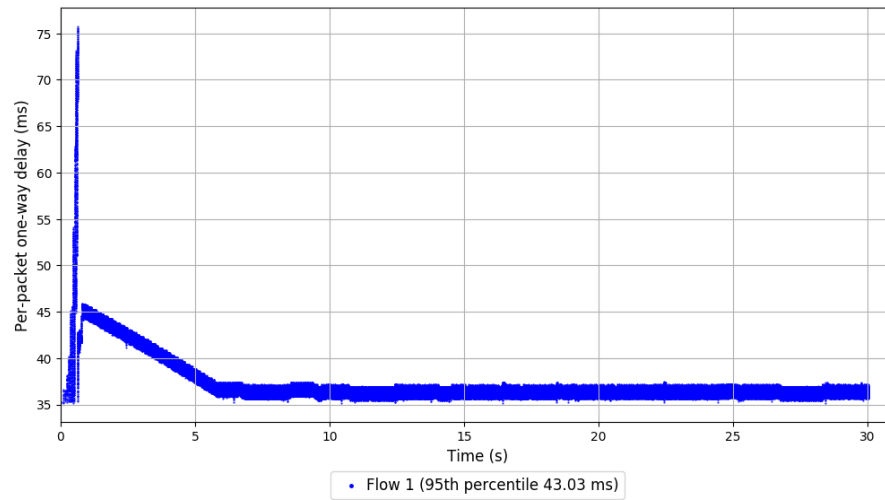
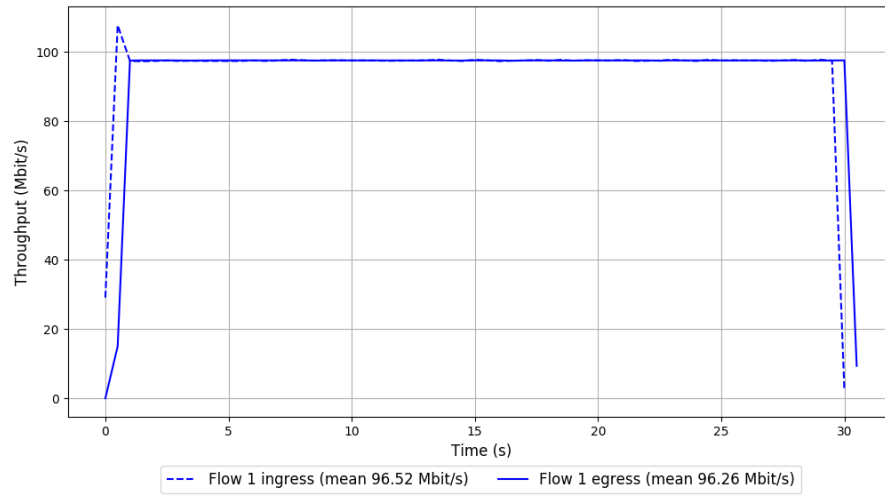
-- Flow 1:

Average throughput: 96.26 Mbit/s

95th percentile per-packet one-way delay: 43.028 ms

Loss rate: 0.27%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-08-01 03:21:37

End at: 2018-08-01 03:22:07

Local clock offset: -0.013 ms

Remote clock offset: 0.221 ms

Below is generated by plot.py at 2018-08-01 04:08:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.21 Mbit/s

95th percentile per-packet one-way delay: 44.304 ms

Loss rate: 0.27%

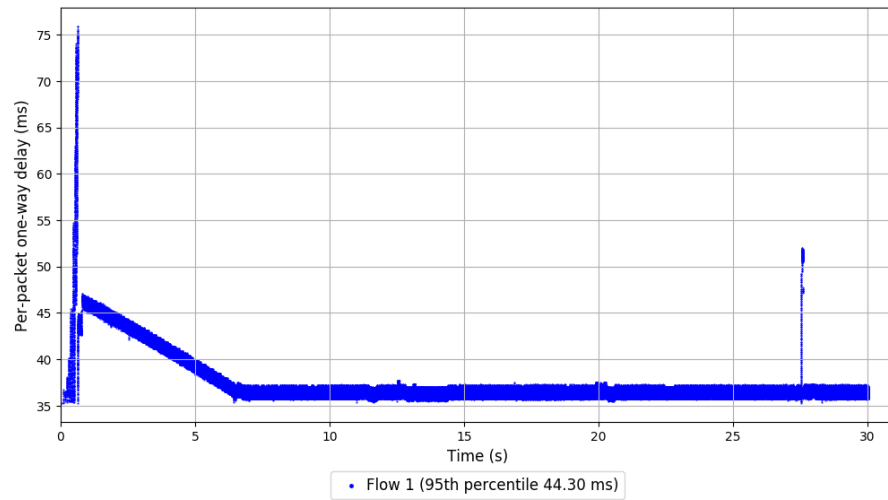
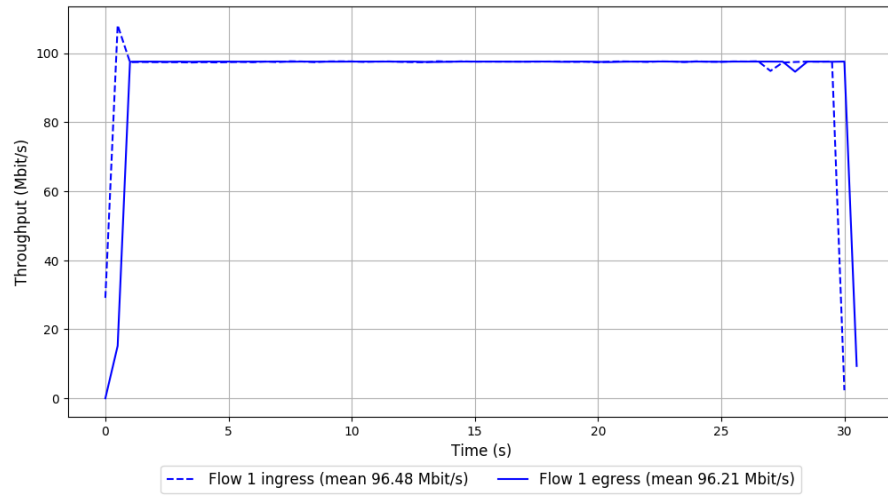
-- Flow 1:

Average throughput: 96.21 Mbit/s

95th percentile per-packet one-way delay: 44.304 ms

Loss rate: 0.27%

Run 9: Report of TCP Vegas — Data Link

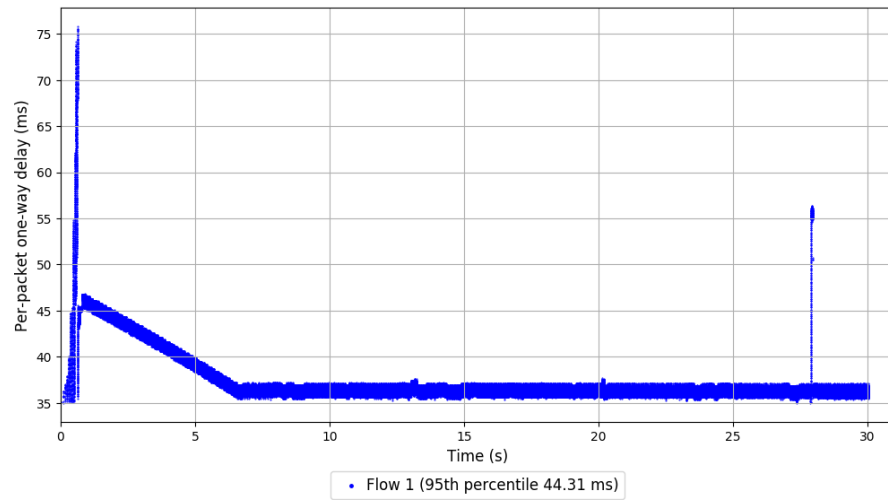
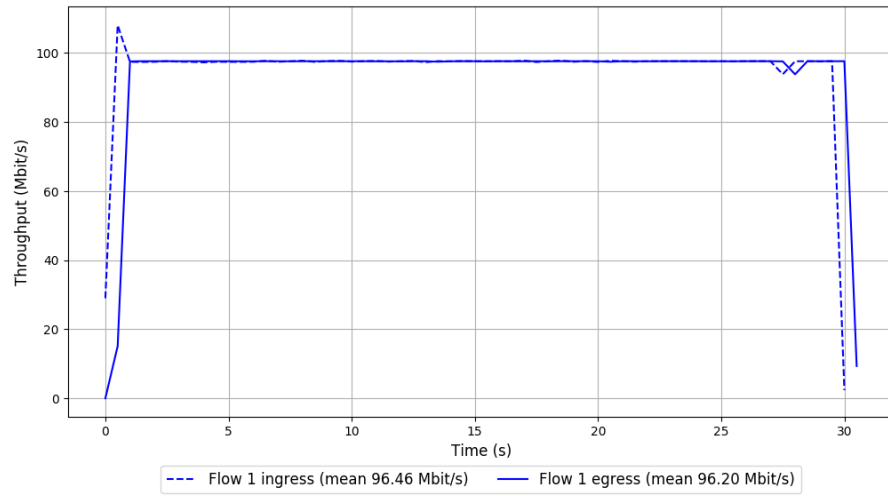


Run 10: Statistics of TCP Vegas

Start at: 2018-08-01 03:43:55
End at: 2018-08-01 03:44:25
Local clock offset: -3.389 ms
Remote clock offset: 10.299 ms

Below is generated by plot.py at 2018-08-01 04:08:07
Datalink statistics
-- Total of 1 flow:
Average throughput: 96.20 Mbit/s
95th percentile per-packet one-way delay: 44.307 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 96.20 Mbit/s
95th percentile per-packet one-way delay: 44.307 ms
Loss rate: 0.27%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-08-01 00:15:07

End at: 2018-08-01 00:15:37

Local clock offset: 8.201 ms

Remote clock offset: 1.642 ms

Below is generated by plot.py at 2018-08-01 04:08:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 52.06 Mbit/s

95th percentile per-packet one-way delay: 75.099 ms

Loss rate: 61.95%

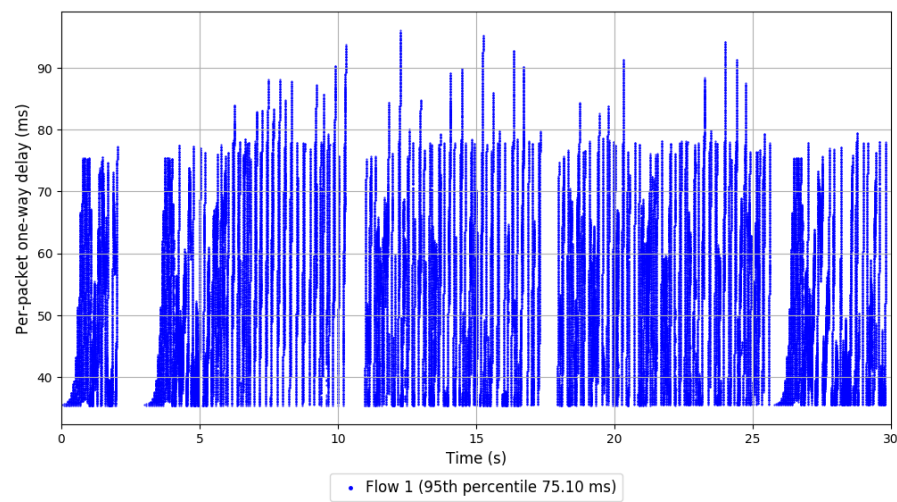
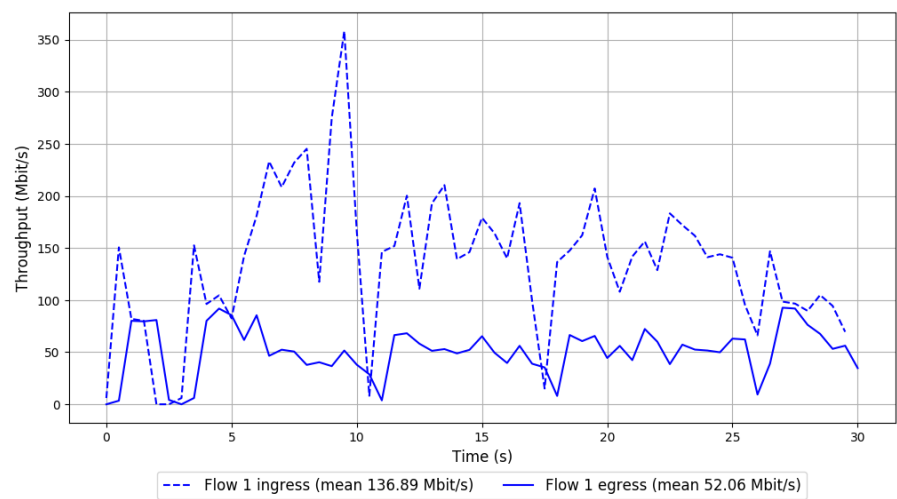
-- Flow 1:

Average throughput: 52.06 Mbit/s

95th percentile per-packet one-way delay: 75.099 ms

Loss rate: 61.95%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-08-01 00:37:25

End at: 2018-08-01 00:37:55

Local clock offset: 4.322 ms

Remote clock offset: 1.016 ms

Below is generated by plot.py at 2018-08-01 04:08:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 48.09 Mbit/s

95th percentile per-packet one-way delay: 69.976 ms

Loss rate: 29.10%

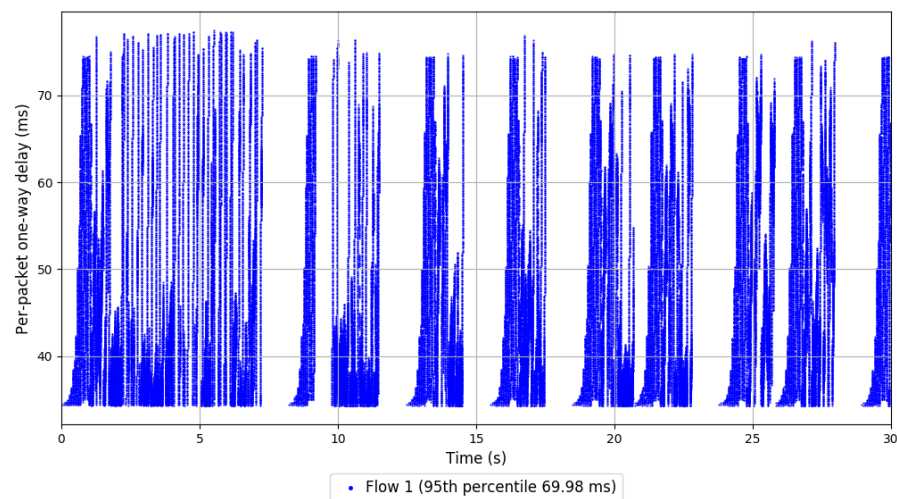
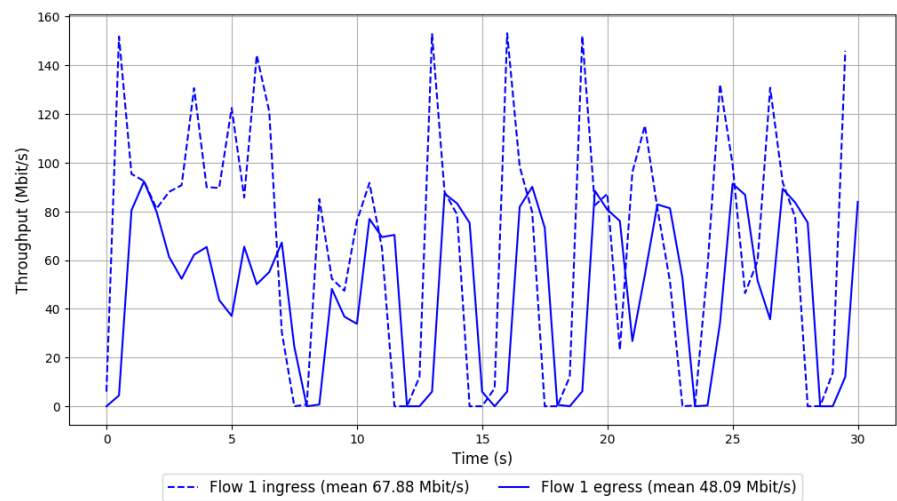
-- Flow 1:

Average throughput: 48.09 Mbit/s

95th percentile per-packet one-way delay: 69.976 ms

Loss rate: 29.10%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-08-01 00:59:44

End at: 2018-08-01 01:00:14

Local clock offset: 2.947 ms

Remote clock offset: 1.101 ms

Below is generated by plot.py at 2018-08-01 04:08:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 59.11 Mbit/s

95th percentile per-packet one-way delay: 69.848 ms

Loss rate: 22.33%

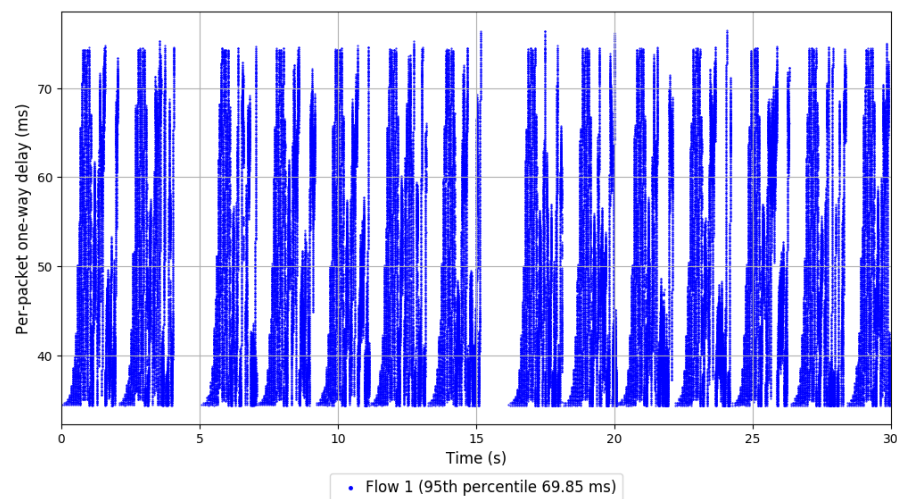
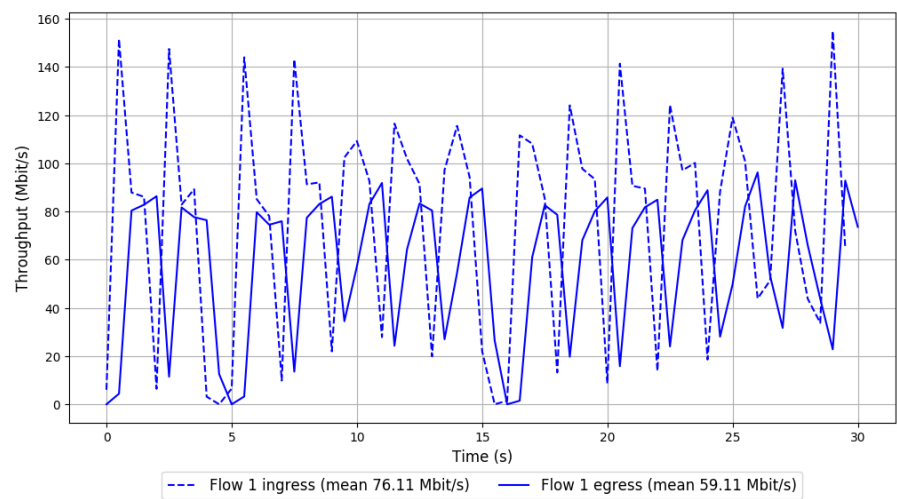
-- Flow 1:

Average throughput: 59.11 Mbit/s

95th percentile per-packet one-way delay: 69.848 ms

Loss rate: 22.33%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-08-01 01:22:06

End at: 2018-08-01 01:22:36

Local clock offset: 2.857 ms

Remote clock offset: 0.077 ms

Below is generated by plot.py at 2018-08-01 04:08:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 56.42 Mbit/s

95th percentile per-packet one-way delay: 70.534 ms

Loss rate: 21.47%

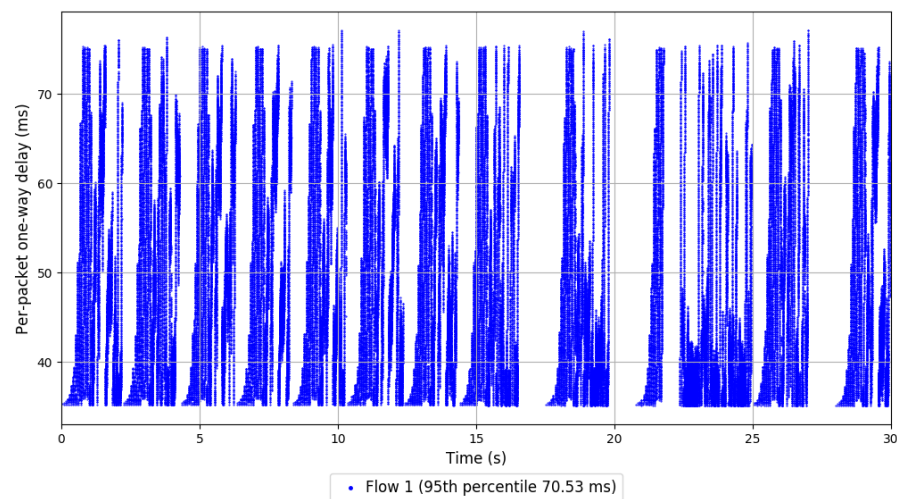
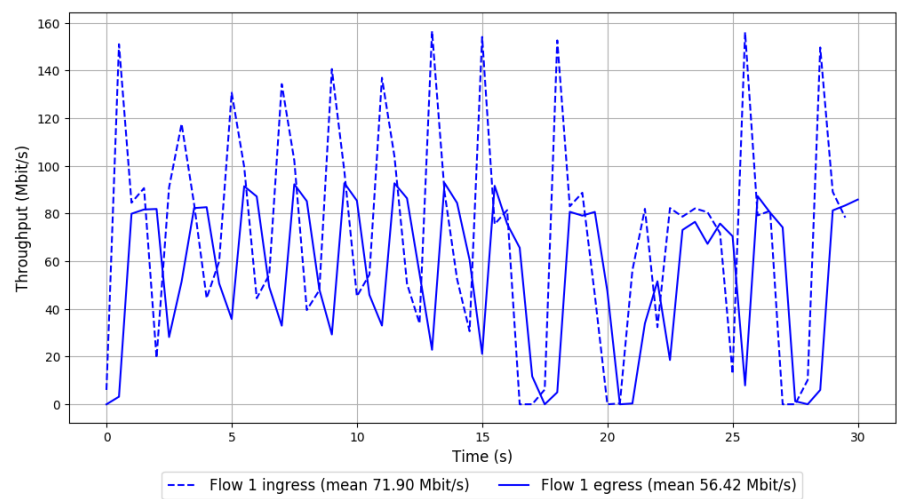
-- Flow 1:

Average throughput: 56.42 Mbit/s

95th percentile per-packet one-way delay: 70.534 ms

Loss rate: 21.47%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-08-01 01:44:26

End at: 2018-08-01 01:44:56

Local clock offset: 1.334 ms

Remote clock offset: 0.936 ms

Below is generated by plot.py at 2018-08-01 04:08:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 62.02 Mbit/s

95th percentile per-packet one-way delay: 70.297 ms

Loss rate: 21.30%

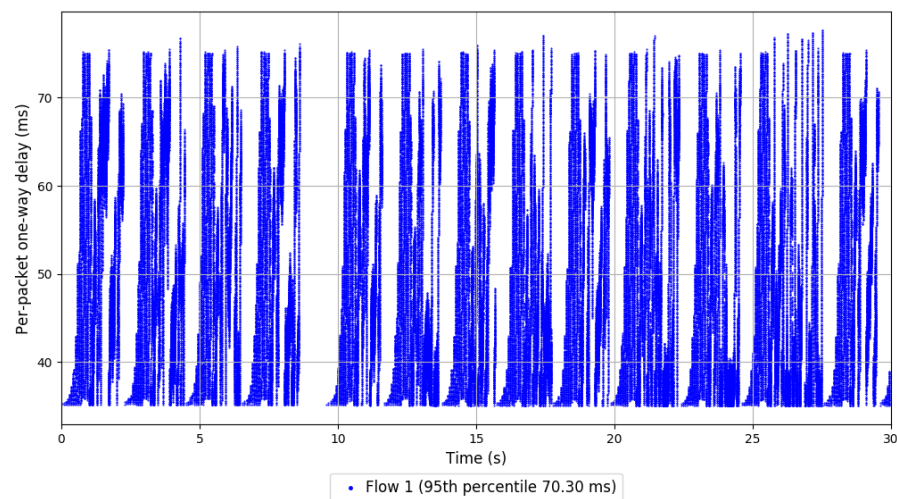
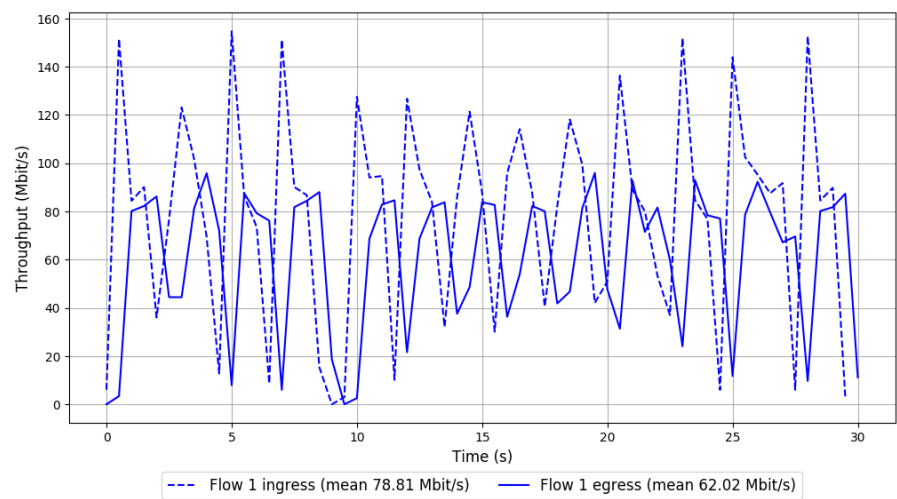
-- Flow 1:

Average throughput: 62.02 Mbit/s

95th percentile per-packet one-way delay: 70.297 ms

Loss rate: 21.30%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-08-01 02:06:44

End at: 2018-08-01 02:07:14

Local clock offset: 0.647 ms

Remote clock offset: 3.001 ms

Below is generated by plot.py at 2018-08-01 04:08:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 54.64 Mbit/s

95th percentile per-packet one-way delay: 70.906 ms

Loss rate: 29.29%

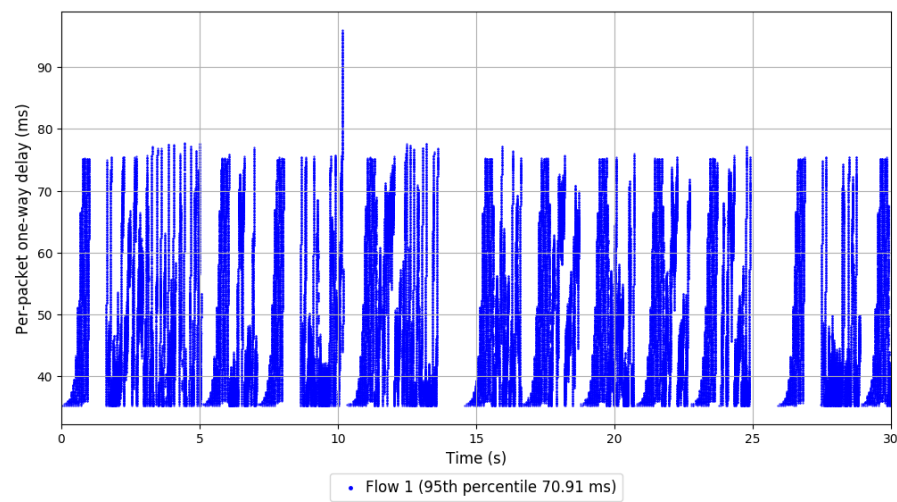
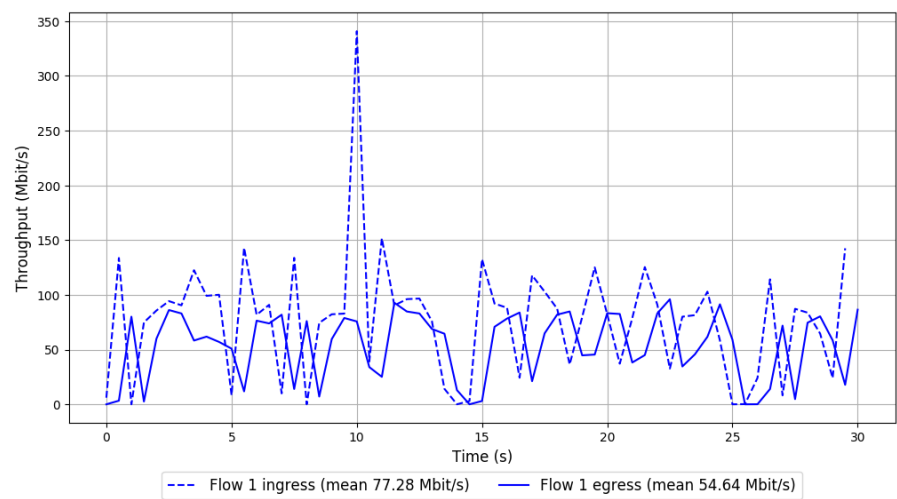
-- Flow 1:

Average throughput: 54.64 Mbit/s

95th percentile per-packet one-way delay: 70.906 ms

Loss rate: 29.29%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-08-01 02:29:05

End at: 2018-08-01 02:29:35

Local clock offset: 0.547 ms

Remote clock offset: 2.082 ms

Below is generated by plot.py at 2018-08-01 04:08:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 55.58 Mbit/s

95th percentile per-packet one-way delay: 70.492 ms

Loss rate: 22.37%

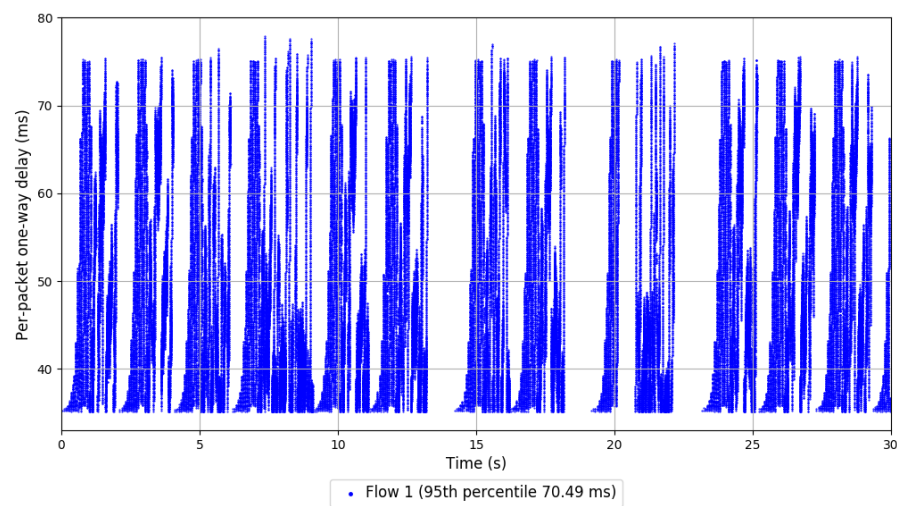
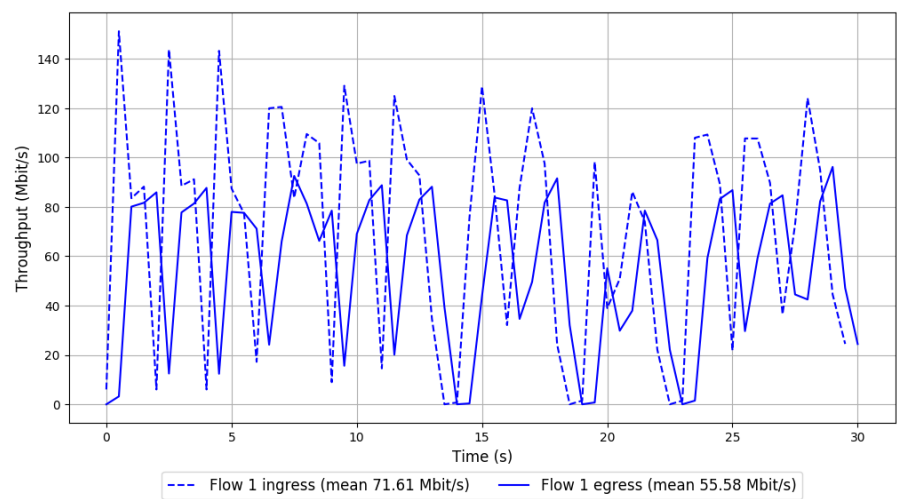
-- Flow 1:

Average throughput: 55.58 Mbit/s

95th percentile per-packet one-way delay: 70.492 ms

Loss rate: 22.37%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-08-01 02:51:23

End at: 2018-08-01 02:51:53

Local clock offset: 0.268 ms

Remote clock offset: 1.643 ms

Below is generated by plot.py at 2018-08-01 04:08:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 56.97 Mbit/s

95th percentile per-packet one-way delay: 70.468 ms

Loss rate: 22.48%

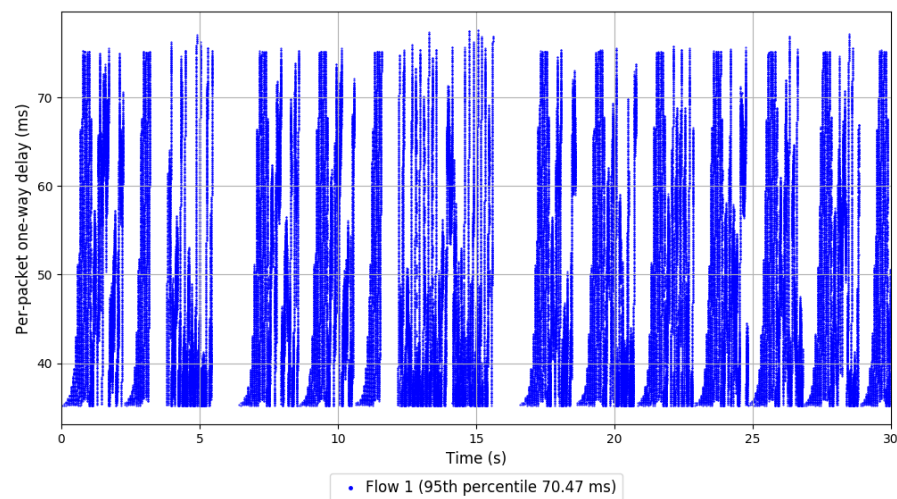
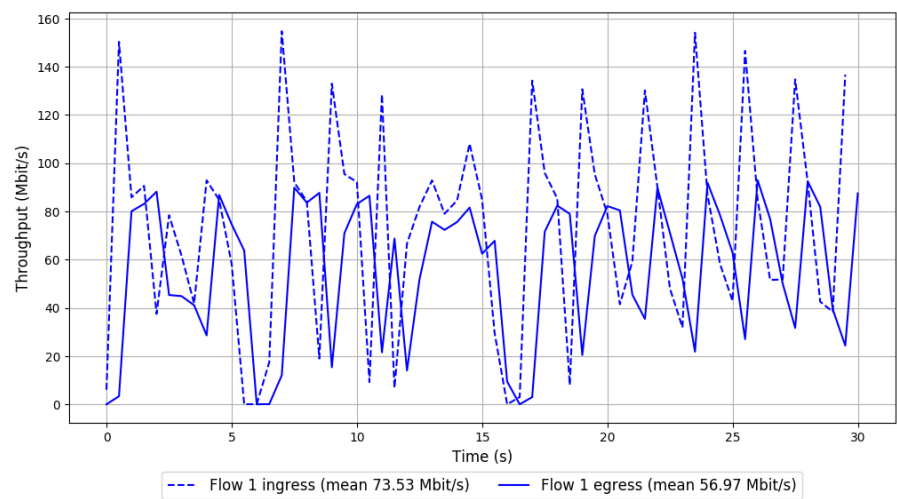
-- Flow 1:

Average throughput: 56.97 Mbit/s

95th percentile per-packet one-way delay: 70.468 ms

Loss rate: 22.48%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-08-01 03:13:39

End at: 2018-08-01 03:14:09

Local clock offset: 0.168 ms

Remote clock offset: 0.746 ms

Below is generated by plot.py at 2018-08-01 04:08:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 54.79 Mbit/s

95th percentile per-packet one-way delay: 71.826 ms

Loss rate: 44.40%

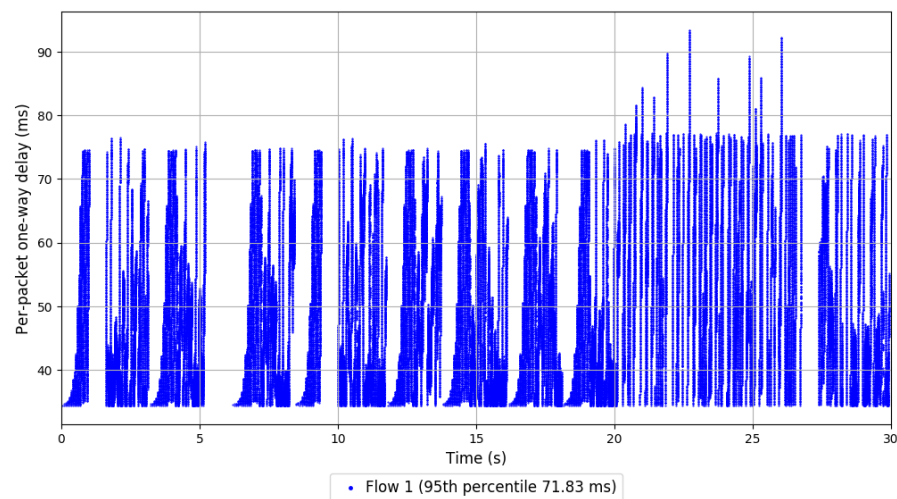
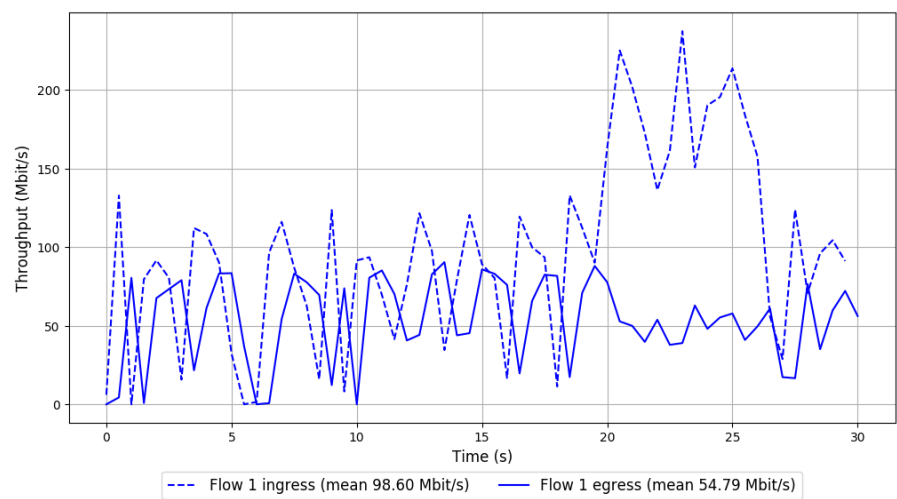
-- Flow 1:

Average throughput: 54.79 Mbit/s

95th percentile per-packet one-way delay: 71.826 ms

Loss rate: 44.40%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-08-01 03:35:57

End at: 2018-08-01 03:36:27

Local clock offset: -2.661 ms

Remote clock offset: 8.211 ms

Below is generated by plot.py at 2018-08-01 04:09:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 59.34 Mbit/s

95th percentile per-packet one-way delay: 70.779 ms

Loss rate: 43.24%

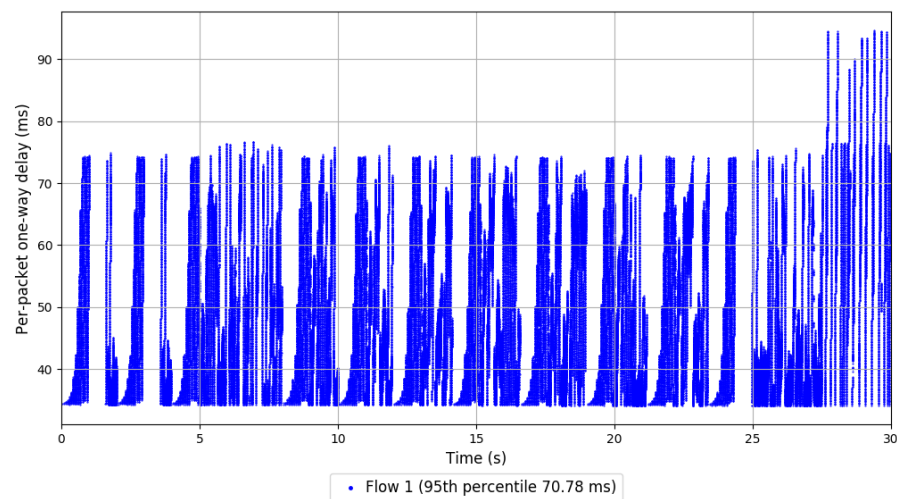
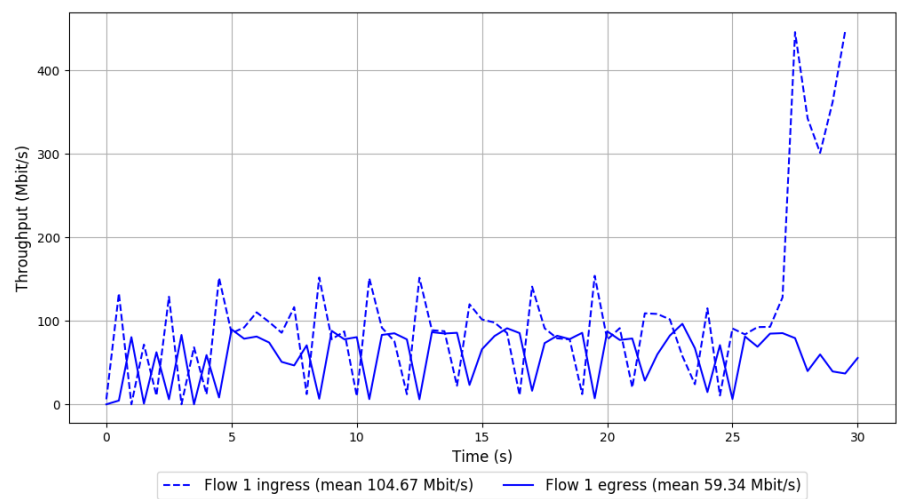
-- Flow 1:

Average throughput: 59.34 Mbit/s

95th percentile per-packet one-way delay: 70.779 ms

Loss rate: 43.24%

Run 10: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2018-08-01 00:02:14

End at: 2018-08-01 00:02:44

Local clock offset: 8.926 ms

Remote clock offset: 3.156 ms

Below is generated by plot.py at 2018-08-01 04:09:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.35 Mbit/s

95th percentile per-packet one-way delay: 41.562 ms

Loss rate: 0.15%

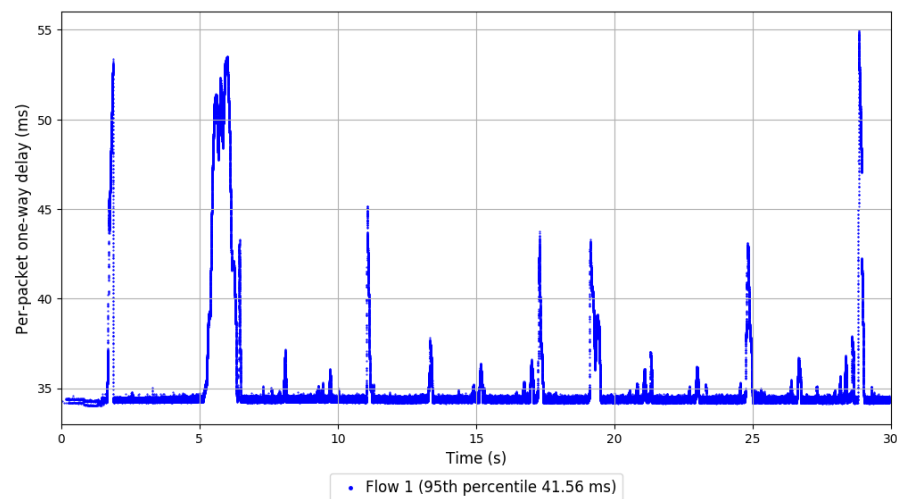
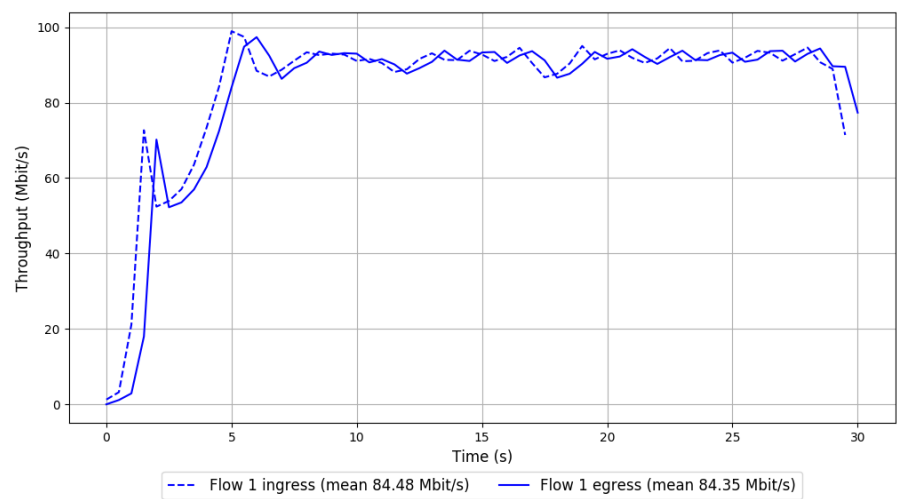
-- Flow 1:

Average throughput: 84.35 Mbit/s

95th percentile per-packet one-way delay: 41.562 ms

Loss rate: 0.15%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2018-08-01 00:24:24

End at: 2018-08-01 00:24:55

Local clock offset: 8.409 ms

Remote clock offset: 0.915 ms

Below is generated by plot.py at 2018-08-01 04:09:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.86 Mbit/s

95th percentile per-packet one-way delay: 35.514 ms

Loss rate: 0.00%

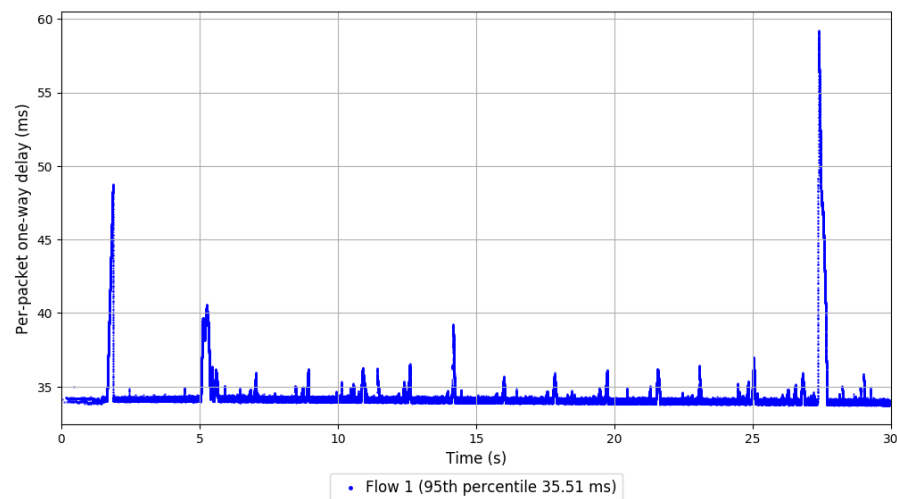
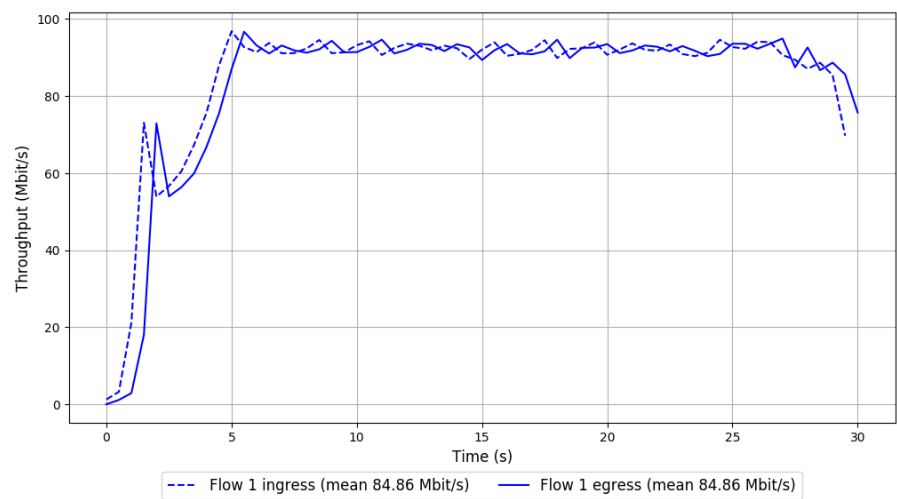
-- Flow 1:

Average throughput: 84.86 Mbit/s

95th percentile per-packet one-way delay: 35.514 ms

Loss rate: 0.00%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-08-01 00:46:42

End at: 2018-08-01 00:47:12

Local clock offset: 4.501 ms

Remote clock offset: 1.343 ms

Below is generated by plot.py at 2018-08-01 04:09:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.26 Mbit/s

95th percentile per-packet one-way delay: 43.141 ms

Loss rate: 0.09%

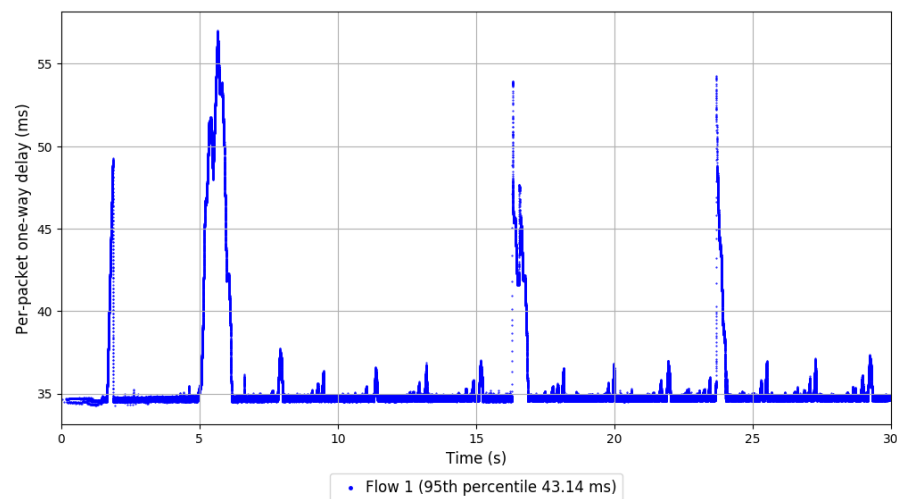
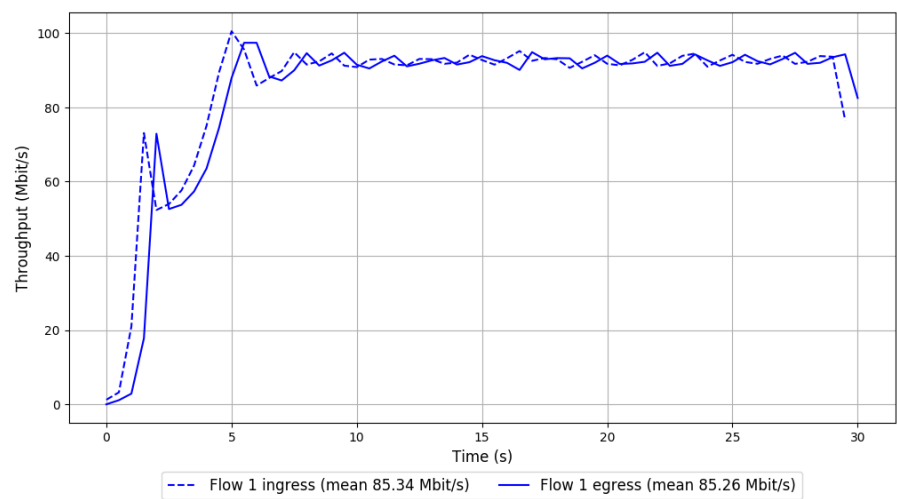
-- Flow 1:

Average throughput: 85.26 Mbit/s

95th percentile per-packet one-way delay: 43.141 ms

Loss rate: 0.09%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2018-08-01 01:09:04

End at: 2018-08-01 01:09:34

Local clock offset: 2.264 ms

Remote clock offset: 0.647 ms

Below is generated by plot.py at 2018-08-01 04:09:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.79 Mbit/s

95th percentile per-packet one-way delay: 42.322 ms

Loss rate: 0.02%

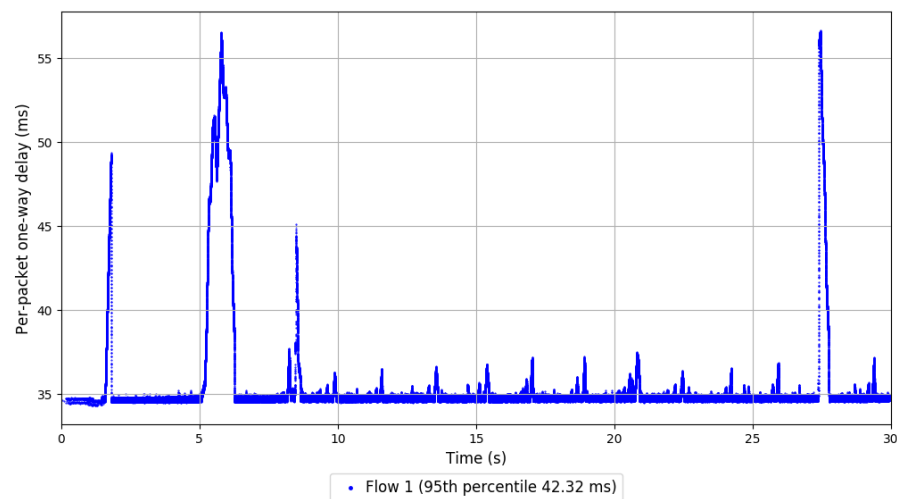
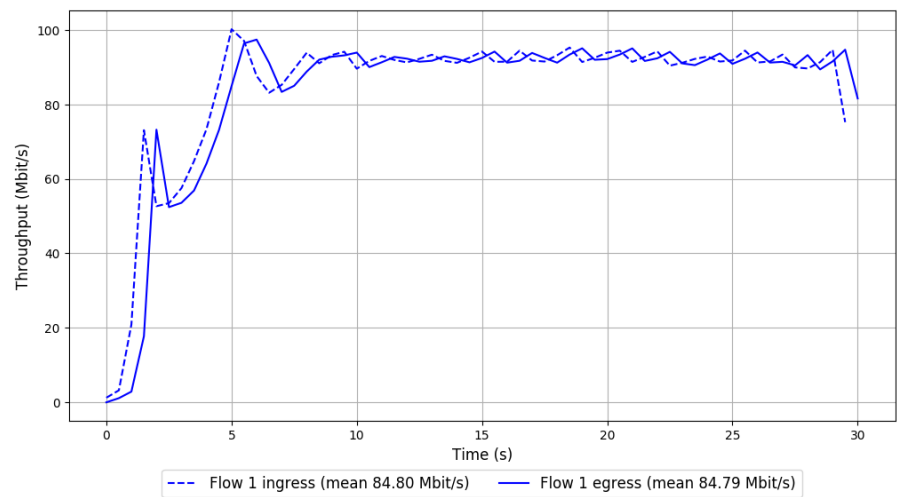
-- Flow 1:

Average throughput: 84.79 Mbit/s

95th percentile per-packet one-way delay: 42.322 ms

Loss rate: 0.02%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2018-08-01 01:31:23

End at: 2018-08-01 01:31:53

Local clock offset: 1.624 ms

Remote clock offset: 0.084 ms

Below is generated by plot.py at 2018-08-01 04:10:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.23 Mbit/s

95th percentile per-packet one-way delay: 41.613 ms

Loss rate: 0.00%

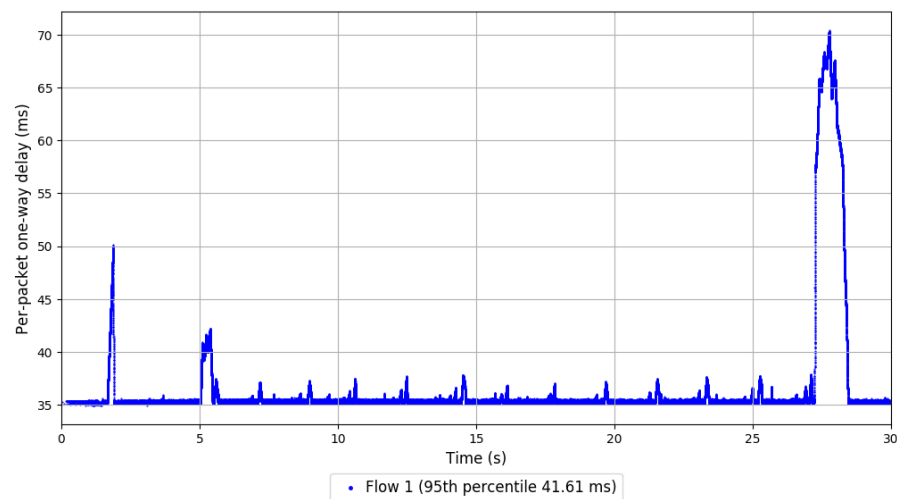
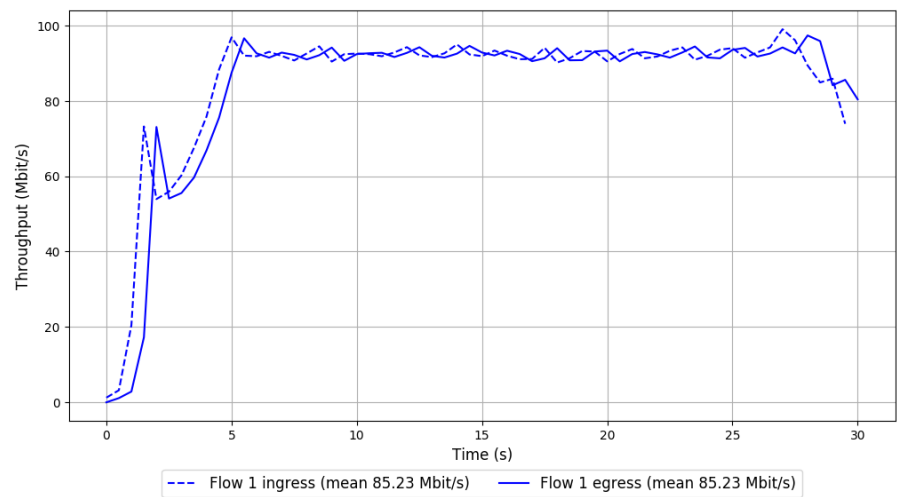
-- Flow 1:

Average throughput: 85.23 Mbit/s

95th percentile per-packet one-way delay: 41.613 ms

Loss rate: 0.00%

Run 5: Report of PCC-Vivace — Data Link



Run 6: Statistics of PCC-Vivace

Start at: 2018-08-01 01:53:42

End at: 2018-08-01 01:54:12

Local clock offset: 1.474 ms

Remote clock offset: 2.338 ms

Below is generated by plot.py at 2018-08-01 04:10:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.37 Mbit/s

95th percentile per-packet one-way delay: 36.753 ms

Loss rate: 0.06%

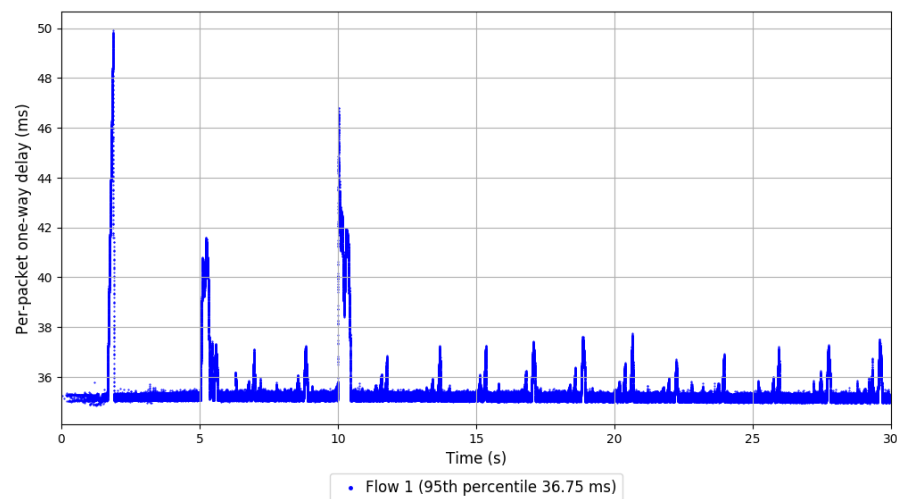
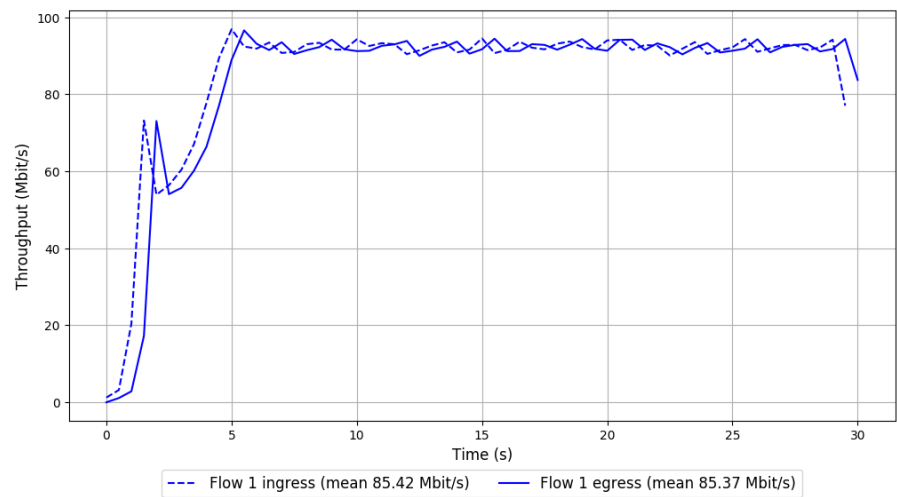
-- Flow 1:

Average throughput: 85.37 Mbit/s

95th percentile per-packet one-way delay: 36.753 ms

Loss rate: 0.06%

Run 6: Report of PCC-Vivace — Data Link



Run 7: Statistics of PCC-Vivace

Start at: 2018-08-01 02:16:02

End at: 2018-08-01 02:16:32

Local clock offset: 0.723 ms

Remote clock offset: 2.851 ms

Below is generated by plot.py at 2018-08-01 04:10:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.65 Mbit/s

95th percentile per-packet one-way delay: 36.813 ms

Loss rate: 0.00%

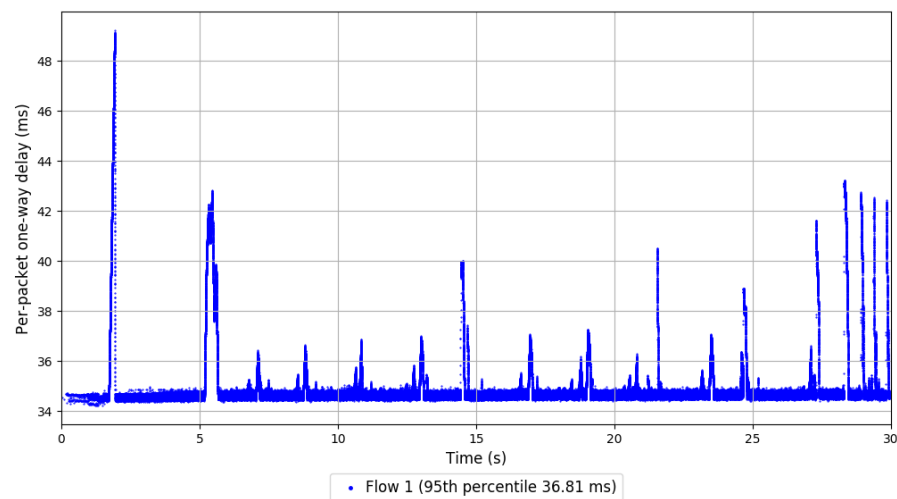
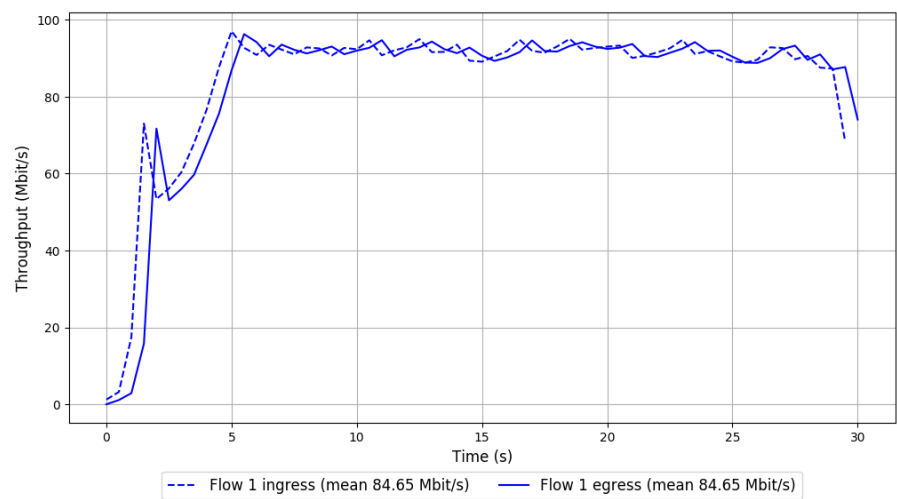
-- Flow 1:

Average throughput: 84.65 Mbit/s

95th percentile per-packet one-way delay: 36.813 ms

Loss rate: 0.00%

Run 7: Report of PCC-Vivace — Data Link



Run 8: Statistics of PCC-Vivace

Start at: 2018-08-01 02:38:21

End at: 2018-08-01 02:38:51

Local clock offset: 0.383 ms

Remote clock offset: 1.942 ms

Below is generated by plot.py at 2018-08-01 04:10:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.56 Mbit/s

95th percentile per-packet one-way delay: 37.304 ms

Loss rate: 0.00%

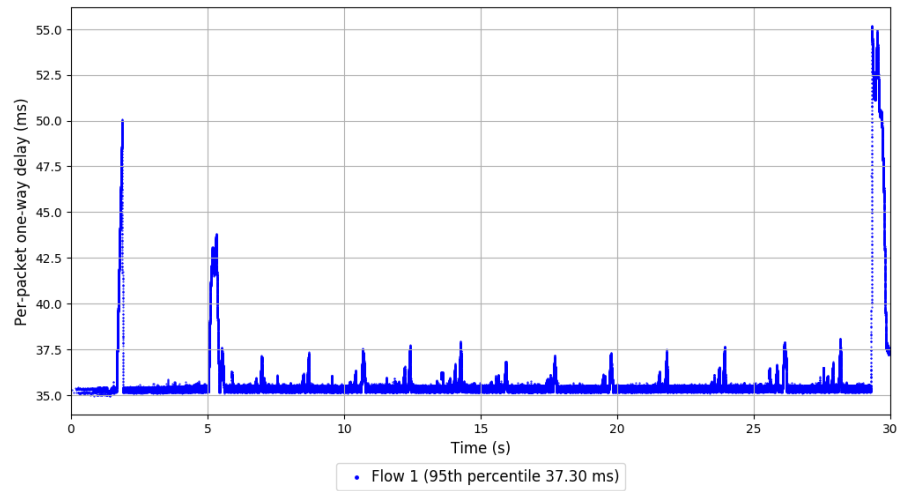
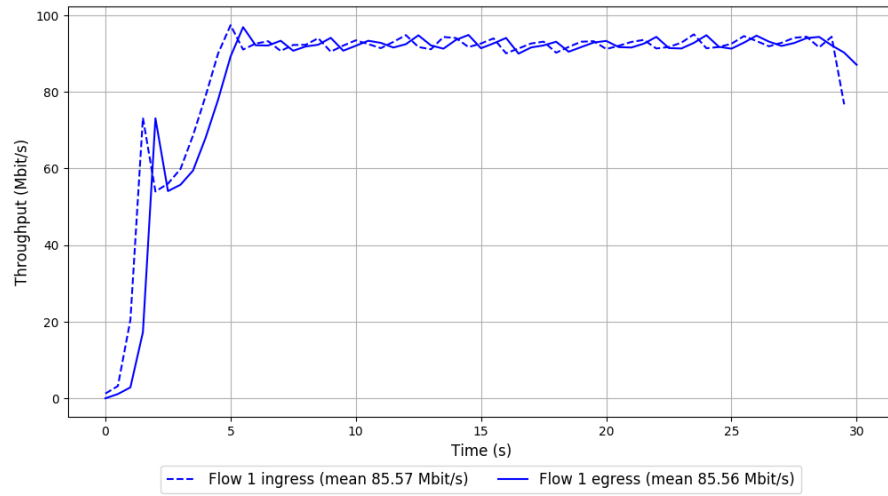
-- Flow 1:

Average throughput: 85.56 Mbit/s

95th percentile per-packet one-way delay: 37.304 ms

Loss rate: 0.00%

Run 8: Report of PCC-Vivace — Data Link



Run 9: Statistics of PCC-Vivace

Start at: 2018-08-01 03:00:38

End at: 2018-08-01 03:01:08

Local clock offset: 0.258 ms

Remote clock offset: 1.361 ms

Below is generated by plot.py at 2018-08-01 04:10:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.06 Mbit/s

95th percentile per-packet one-way delay: 35.853 ms

Loss rate: 0.00%

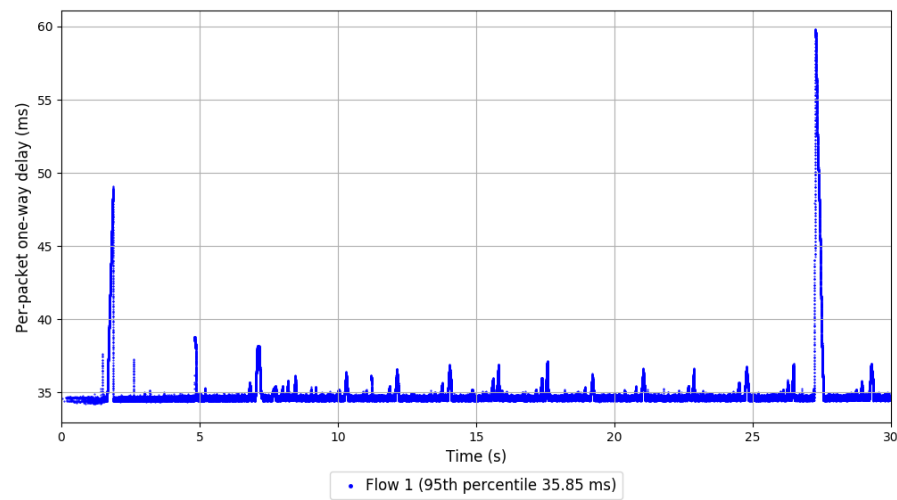
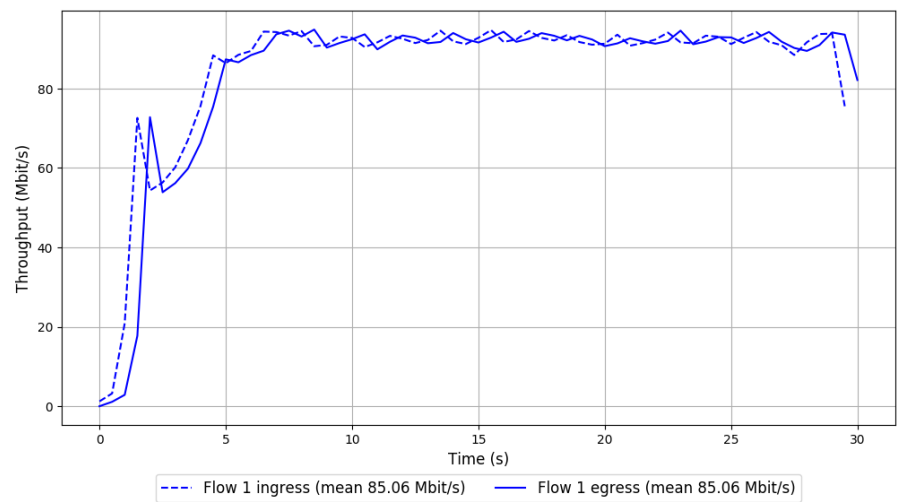
-- Flow 1:

Average throughput: 85.06 Mbit/s

95th percentile per-packet one-way delay: 35.853 ms

Loss rate: 0.00%

Run 9: Report of PCC-Vivace — Data Link



Run 10: Statistics of PCC-Vivace

Start at: 2018-08-01 03:22:56

End at: 2018-08-01 03:23:26

Local clock offset: 0.02 ms

Remote clock offset: 0.133 ms

Below is generated by plot.py at 2018-08-01 04:10:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.29 Mbit/s

95th percentile per-packet one-way delay: 36.608 ms

Loss rate: 0.00%

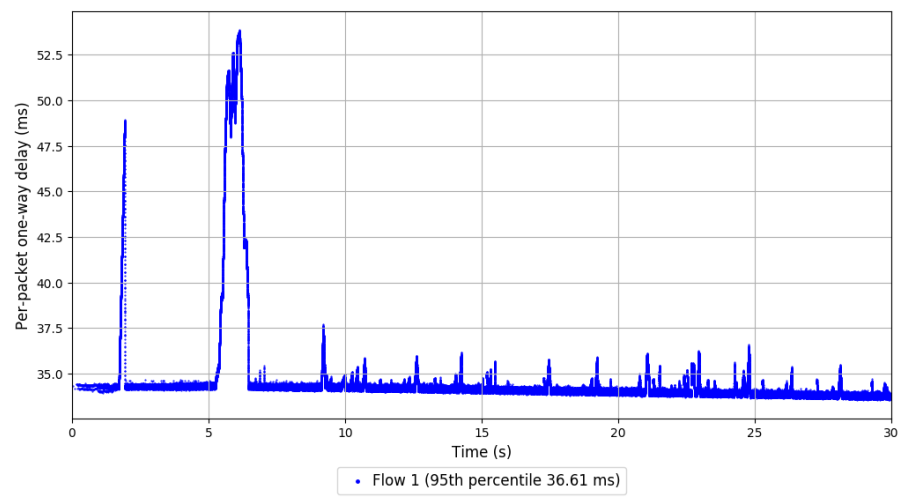
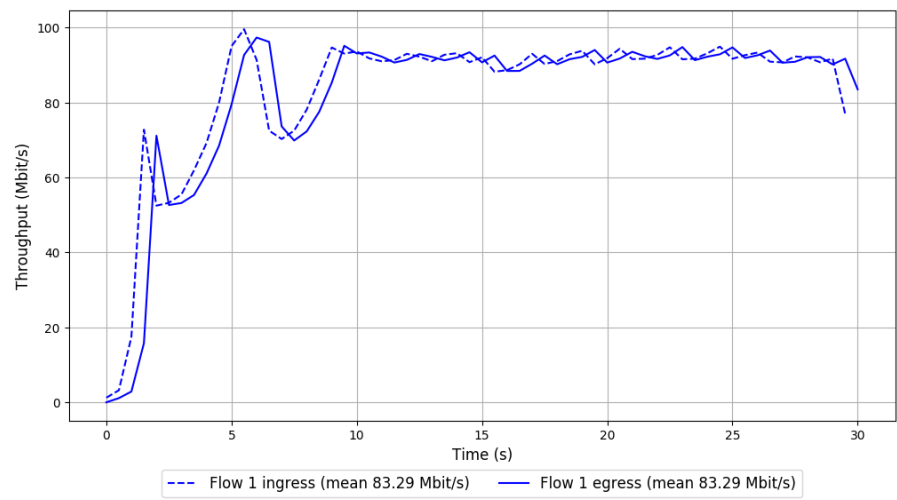
-- Flow 1:

Average throughput: 83.29 Mbit/s

95th percentile per-packet one-way delay: 36.608 ms

Loss rate: 0.00%

Run 10: Report of PCC-Vivace — Data Link

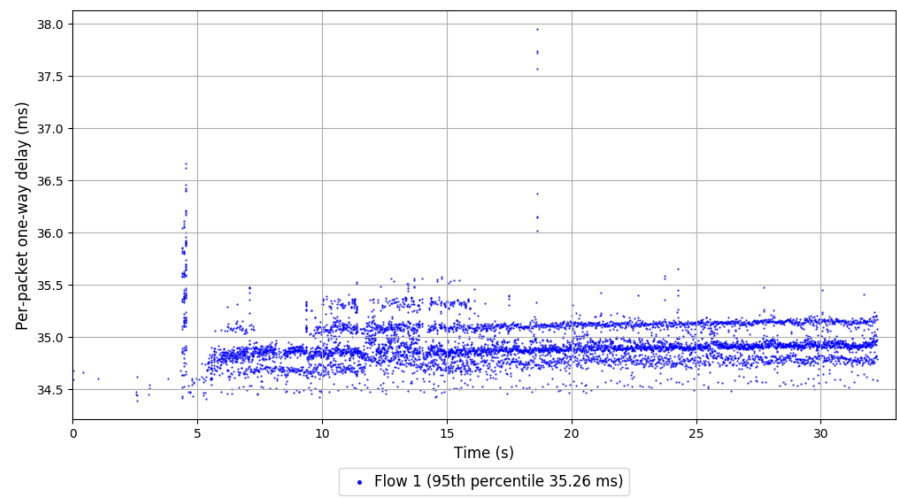
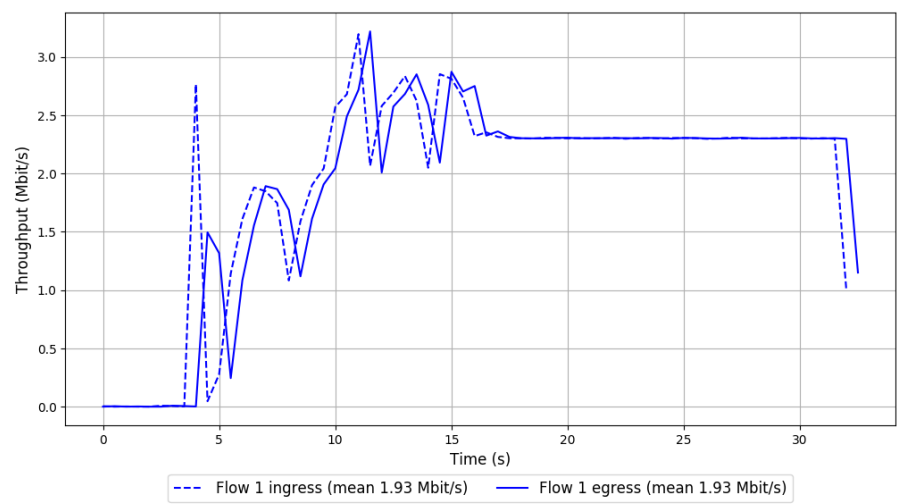


```
Run 1: Statistics of WebRTC media

Start at: 2018-08-01 00:13:52
End at: 2018-08-01 00:14:22
Local clock offset: 8.018 ms
Remote clock offset: 1.734 ms

# Below is generated by plot.py at 2018-08-01 04:10:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.93 Mbit/s
95th percentile per-packet one-way delay: 35.256 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.93 Mbit/s
95th percentile per-packet one-way delay: 35.256 ms
Loss rate: 0.00%
```


Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-08-01 00:36:10

End at: 2018-08-01 00:36:40

Local clock offset: 4.396 ms

Remote clock offset: 0.92 ms

Below is generated by plot.py at 2018-08-01 04:10:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.93 Mbit/s

95th percentile per-packet one-way delay: 35.662 ms

Loss rate: 0.00%

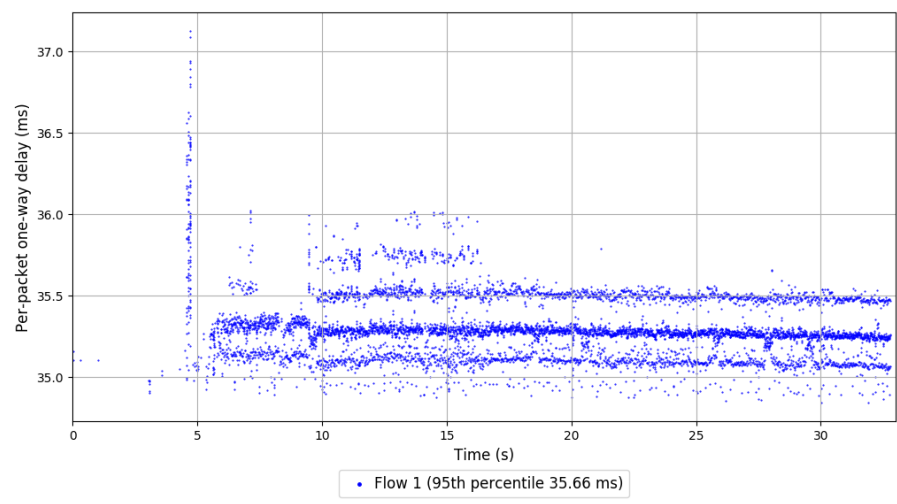
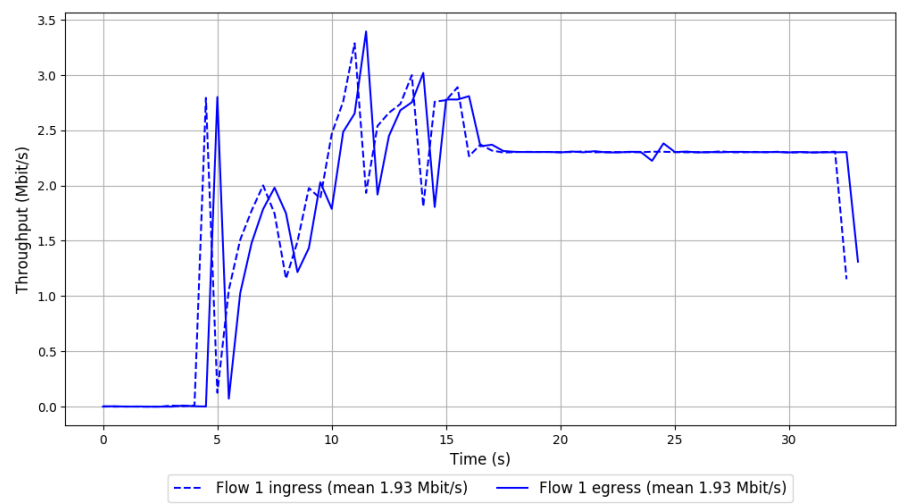
-- Flow 1:

Average throughput: 1.93 Mbit/s

95th percentile per-packet one-way delay: 35.662 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-08-01 00:58:28

End at: 2018-08-01 00:58:58

Local clock offset: 3.274 ms

Remote clock offset: 1.094 ms

Below is generated by plot.py at 2018-08-01 04:10:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.93 Mbit/s

95th percentile per-packet one-way delay: 34.807 ms

Loss rate: 0.00%

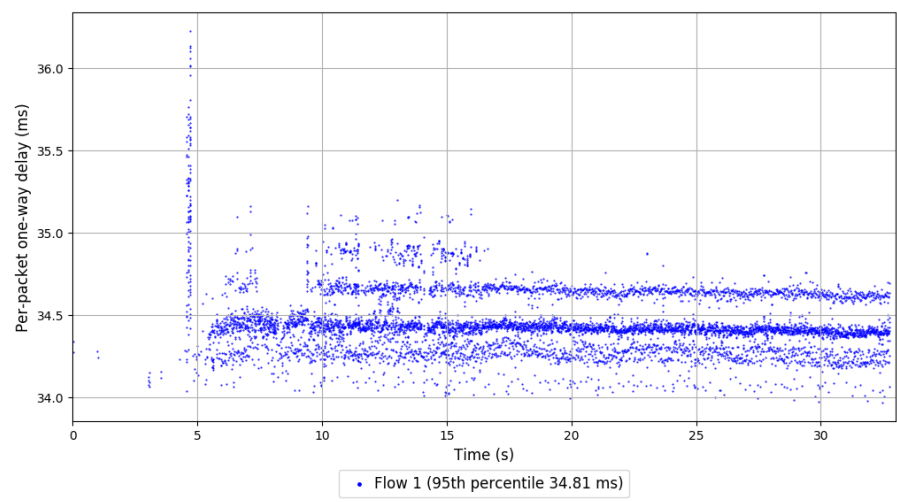
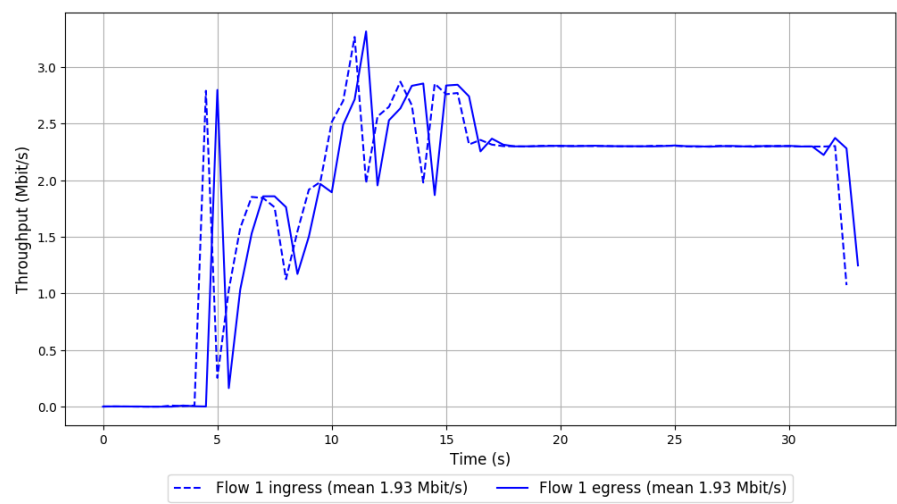
-- Flow 1:

Average throughput: 1.93 Mbit/s

95th percentile per-packet one-way delay: 34.807 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-08-01 01:20:51

End at: 2018-08-01 01:21:21

Local clock offset: 2.688 ms

Remote clock offset: 0.17 ms

Below is generated by plot.py at 2018-08-01 04:10:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.93 Mbit/s

95th percentile per-packet one-way delay: 35.931 ms

Loss rate: 0.00%

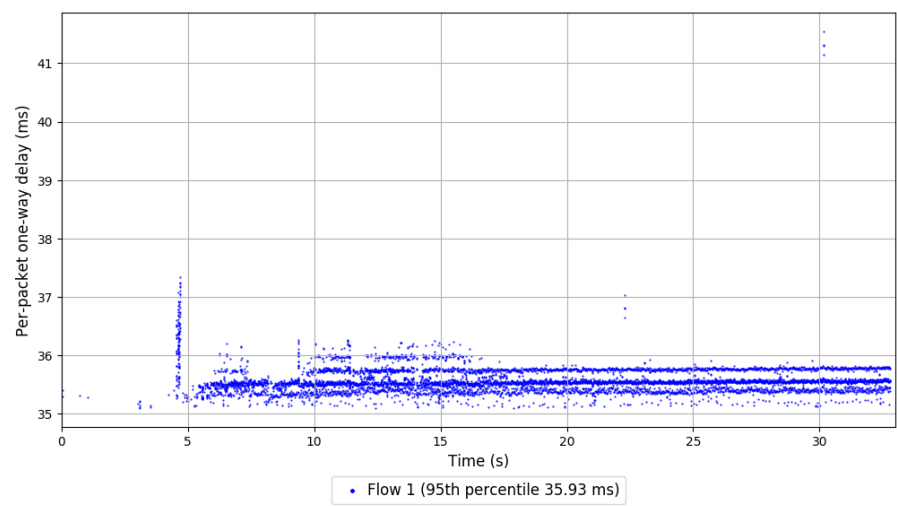
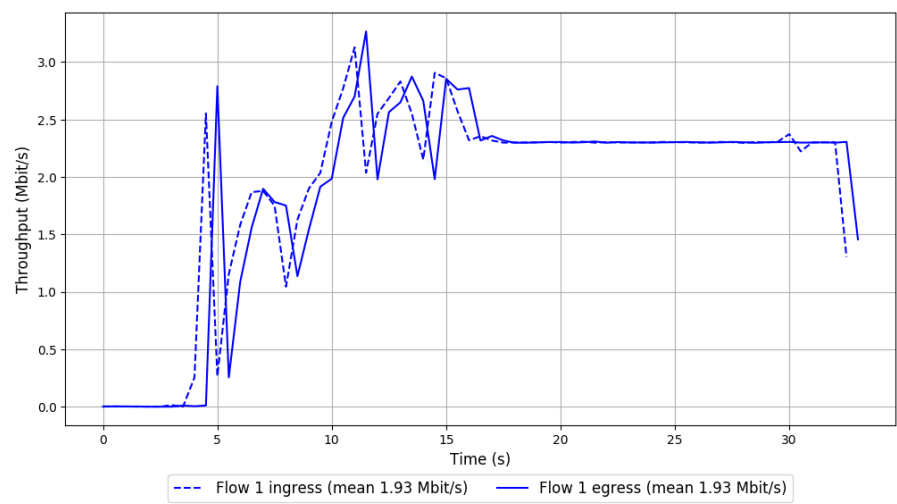
-- Flow 1:

Average throughput: 1.93 Mbit/s

95th percentile per-packet one-way delay: 35.931 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-08-01 01:43:11

End at: 2018-08-01 01:43:41

Local clock offset: 1.296 ms

Remote clock offset: 0.71 ms

Below is generated by plot.py at 2018-08-01 04:10:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.93 Mbit/s

95th percentile per-packet one-way delay: 35.758 ms

Loss rate: 0.00%

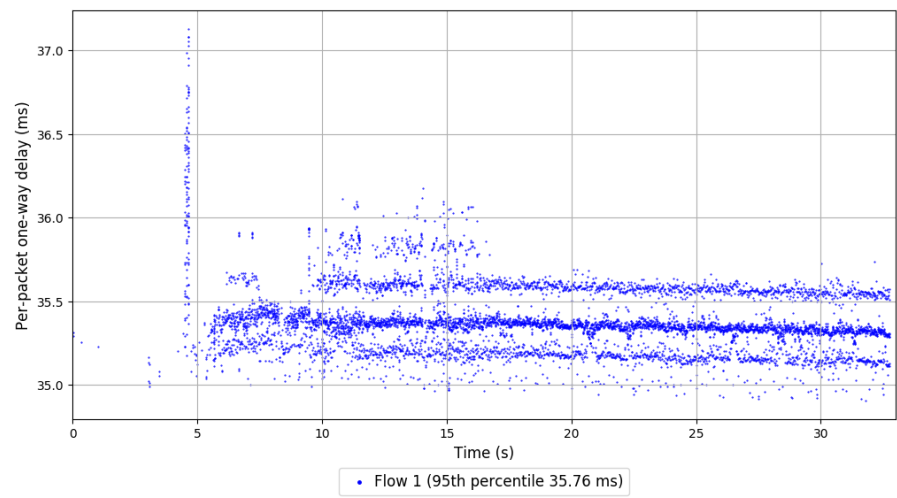
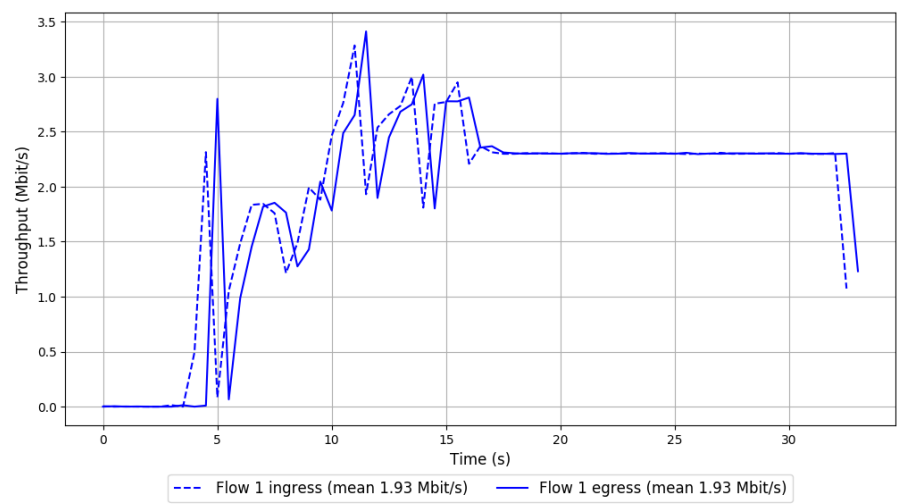
-- Flow 1:

Average throughput: 1.93 Mbit/s

95th percentile per-packet one-way delay: 35.758 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-08-01 02:05:29

End at: 2018-08-01 02:05:59

Local clock offset: 0.752 ms

Remote clock offset: 2.978 ms

Below is generated by plot.py at 2018-08-01 04:10:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.93 Mbit/s

95th percentile per-packet one-way delay: 34.975 ms

Loss rate: 0.00%

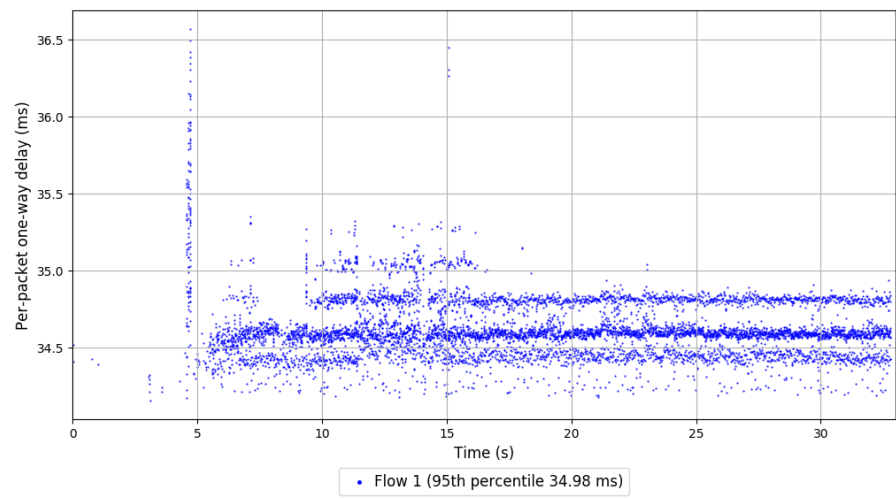
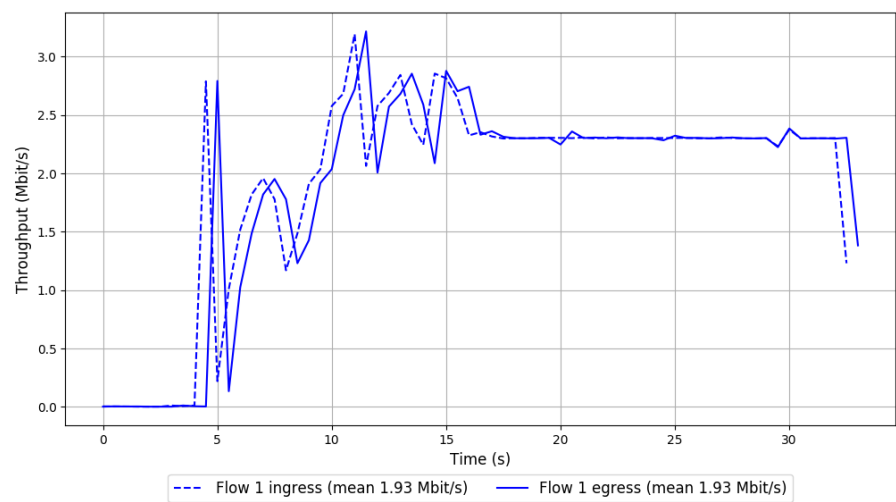
-- Flow 1:

Average throughput: 1.93 Mbit/s

95th percentile per-packet one-way delay: 34.975 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-08-01 02:27:50

End at: 2018-08-01 02:28:20

Local clock offset: 0.583 ms

Remote clock offset: 2.163 ms

Below is generated by plot.py at 2018-08-01 04:10:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.93 Mbit/s

95th percentile per-packet one-way delay: 34.963 ms

Loss rate: 0.00%

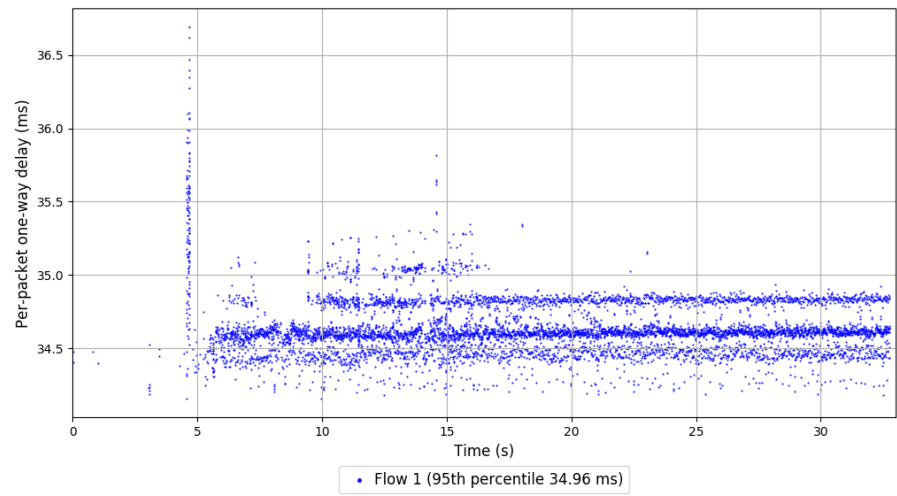
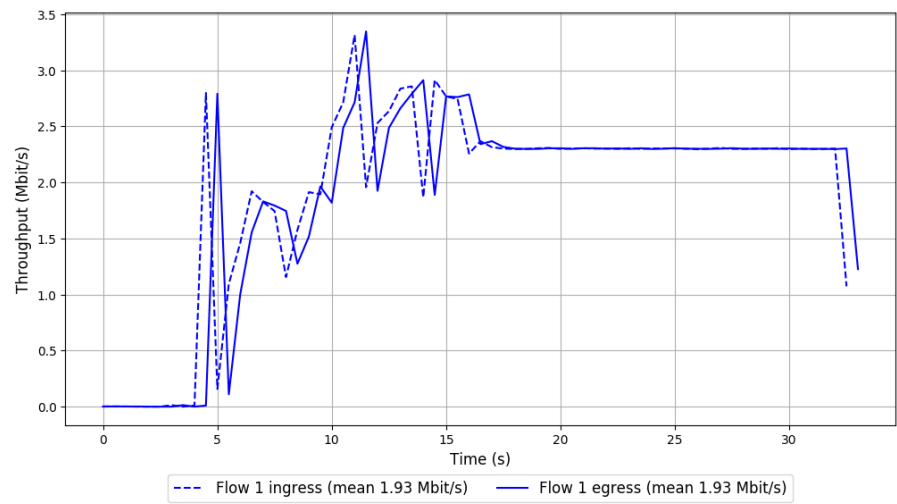
-- Flow 1:

Average throughput: 1.93 Mbit/s

95th percentile per-packet one-way delay: 34.963 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-08-01 02:50:08

End at: 2018-08-01 02:50:38

Local clock offset: 0.352 ms

Remote clock offset: 1.72 ms

Below is generated by plot.py at 2018-08-01 04:10:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.93 Mbit/s

95th percentile per-packet one-way delay: 35.783 ms

Loss rate: 0.00%

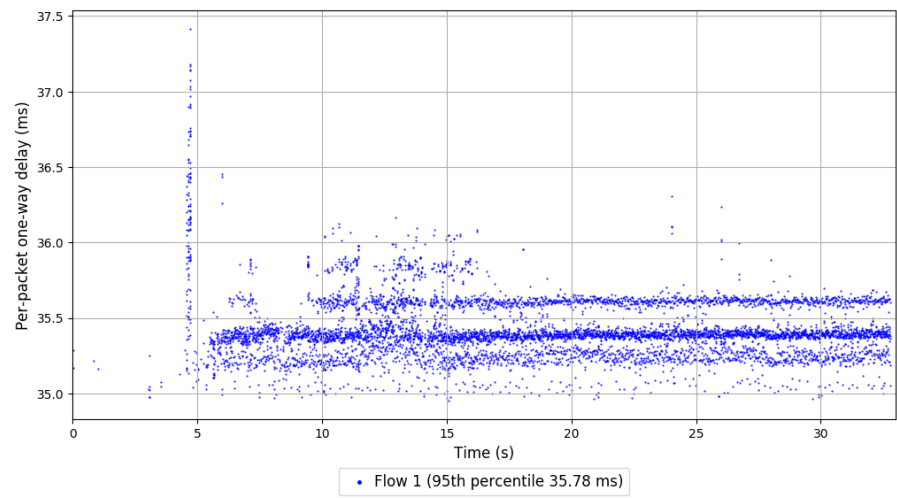
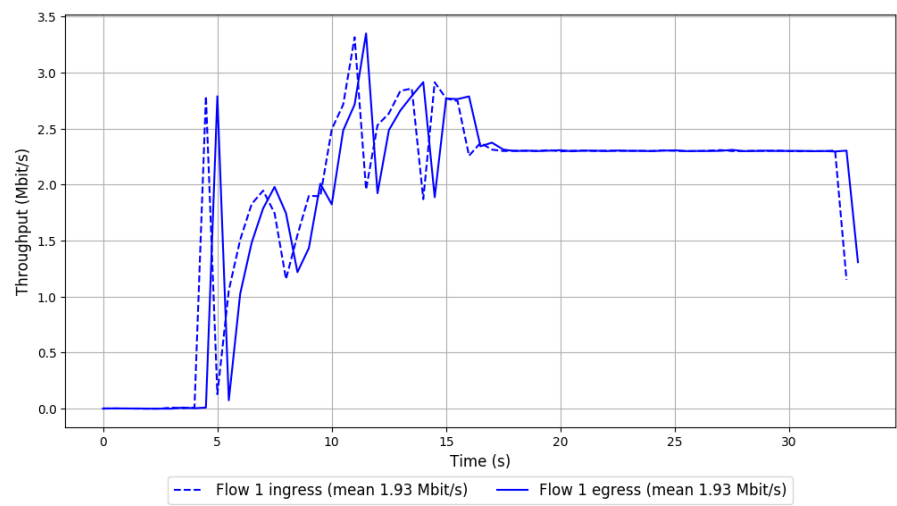
-- Flow 1:

Average throughput: 1.93 Mbit/s

95th percentile per-packet one-way delay: 35.783 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-08-01 03:12:24

End at: 2018-08-01 03:12:54

Local clock offset: 0.079 ms

Remote clock offset: 0.774 ms

Below is generated by plot.py at 2018-08-01 04:10:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.93 Mbit/s

95th percentile per-packet one-way delay: 35.801 ms

Loss rate: 0.00%

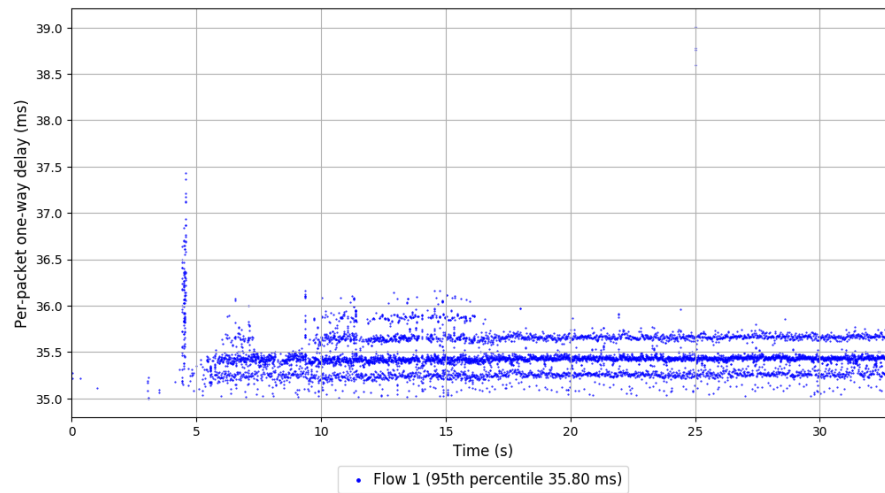
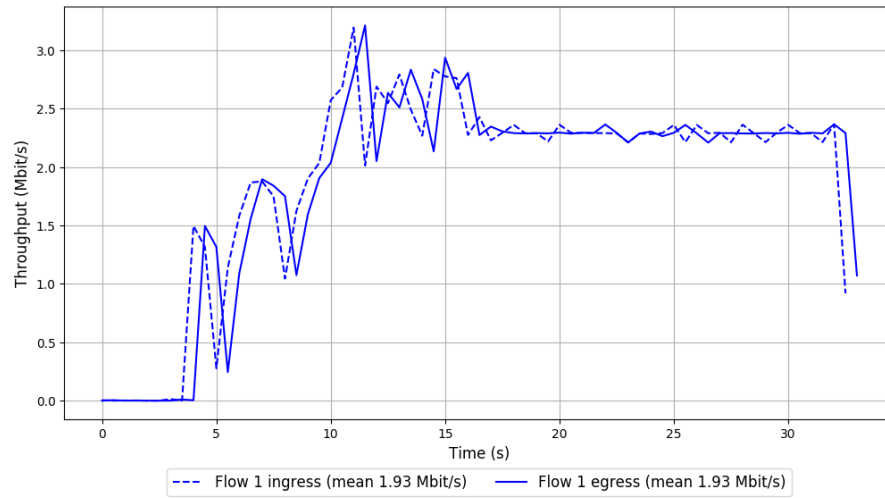
-- Flow 1:

Average throughput: 1.93 Mbit/s

95th percentile per-packet one-way delay: 35.801 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-08-01 03:34:42

End at: 2018-08-01 03:35:12

Local clock offset: -2.517 ms

Remote clock offset: 7.77 ms

Below is generated by plot.py at 2018-08-01 04:10:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.93 Mbit/s

95th percentile per-packet one-way delay: 35.507 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.93 Mbit/s

95th percentile per-packet one-way delay: 35.507 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

