

Pantheon Report

Generated at 2018-07-24 10:49:16 (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.

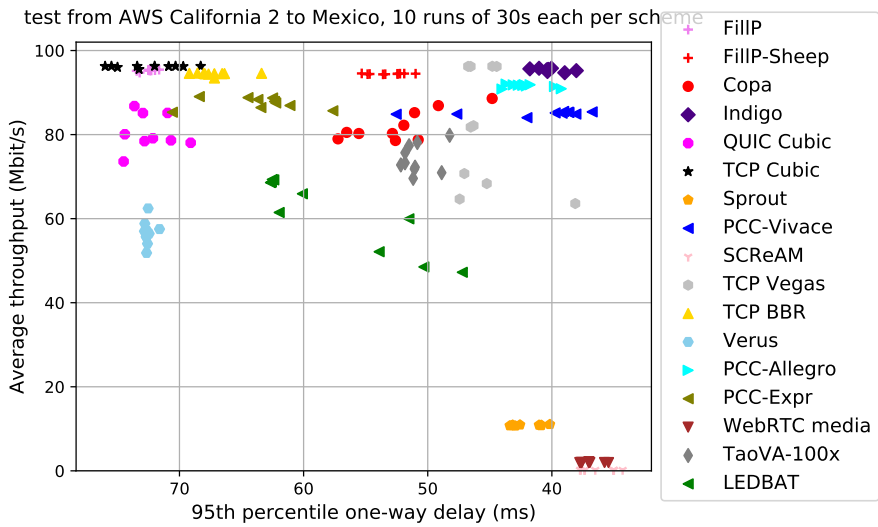
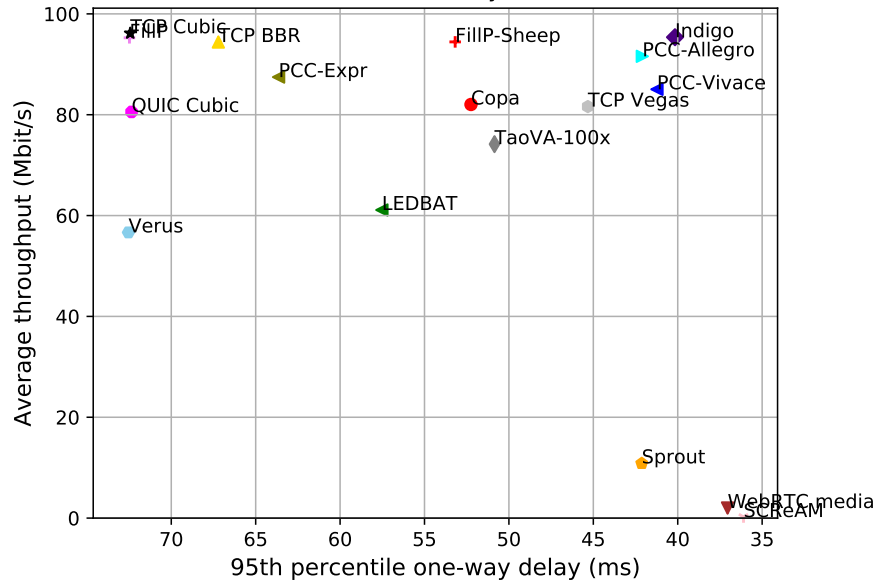
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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-quick @ 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)



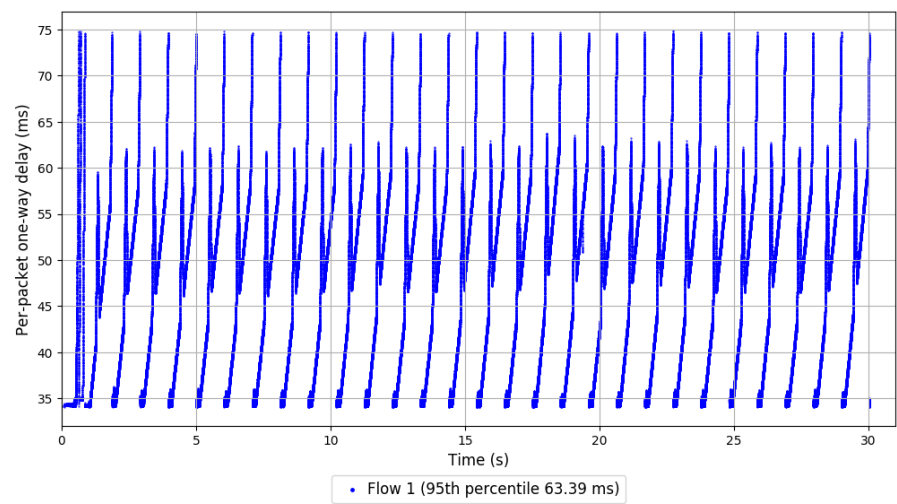
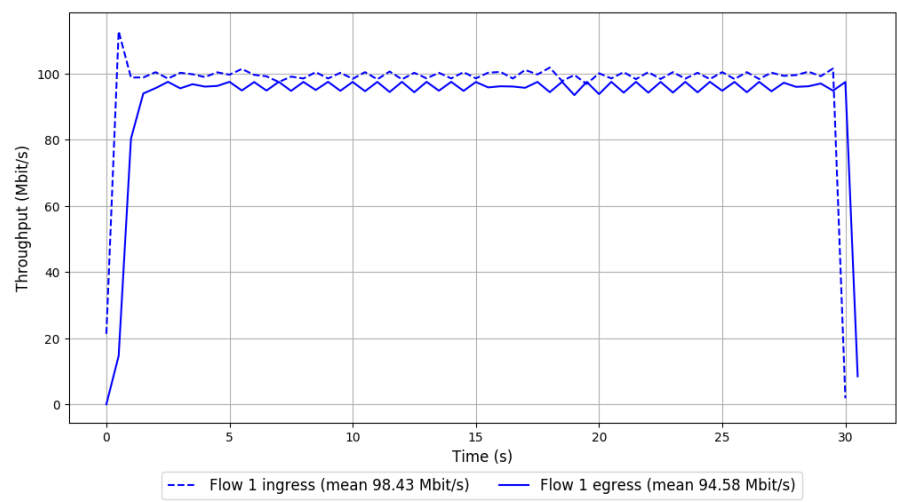
scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	94.42	67.21	3.97
Copa	10	82.03	52.25	1.01
TCP Cubic	10	96.16	72.43	0.37
FillP	10	95.26	72.48	8.64
FillP-Sheep	10	94.44	53.18	0.96
Indigo	10	95.37	40.16	0.01
LEDBAT	10	61.10	57.52	0.02
PCC-Allegro	10	91.58	42.10	0.72
PCC-Expr	10	87.47	63.64	1.02
QUIC Cubic	9	80.55	72.35	1.63
SCReAM	10	0.21	36.10	0.00
Sprout	10	10.85	42.13	0.00
TaoVA-100x	10	74.17	50.85	0.01
TCP Vegas	10	81.61	45.32	0.38
Verus	10	56.66	72.54	23.96
PCC-Vivace	10	85.04	41.23	0.00
WebRTC media	10	2.00	37.05	0.01

Run 1: Statistics of TCP BBR

Start at: 2018-07-24 06:48:12
End at: 2018-07-24 06:48:43
Local clock offset: -12.787 ms
Remote clock offset: 1.949 ms

Below is generated by plot.py at 2018-07-24 10:27:51
Datalink statistics
-- Total of 1 flow:
Average throughput: 94.58 Mbit/s
95th percentile per-packet one-way delay: 63.387 ms
Loss rate: 3.92%
-- Flow 1:
Average throughput: 94.58 Mbit/s
95th percentile per-packet one-way delay: 63.387 ms
Loss rate: 3.92%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-07-24 07:10:25

End at: 2018-07-24 07:10:55

Local clock offset: -8.096 ms

Remote clock offset: 4.386 ms

Below is generated by plot.py at 2018-07-24 10:27:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.52 Mbit/s

95th percentile per-packet one-way delay: 66.563 ms

Loss rate: 3.90%

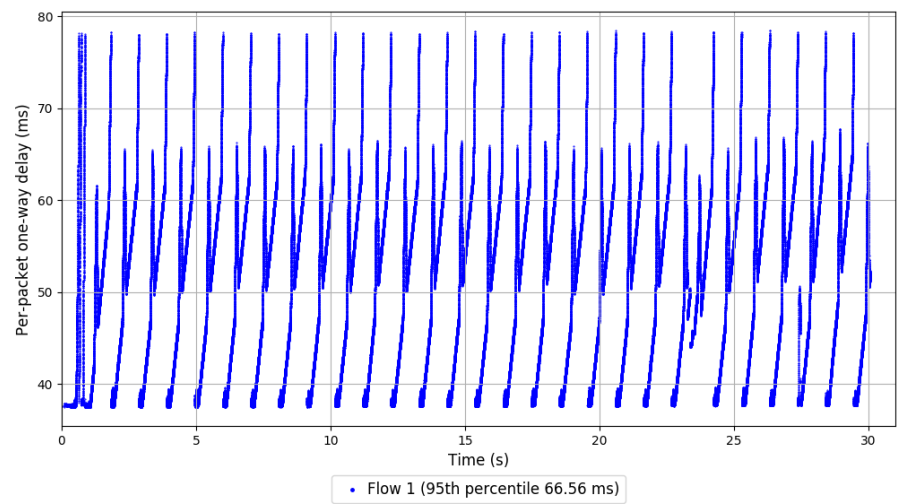
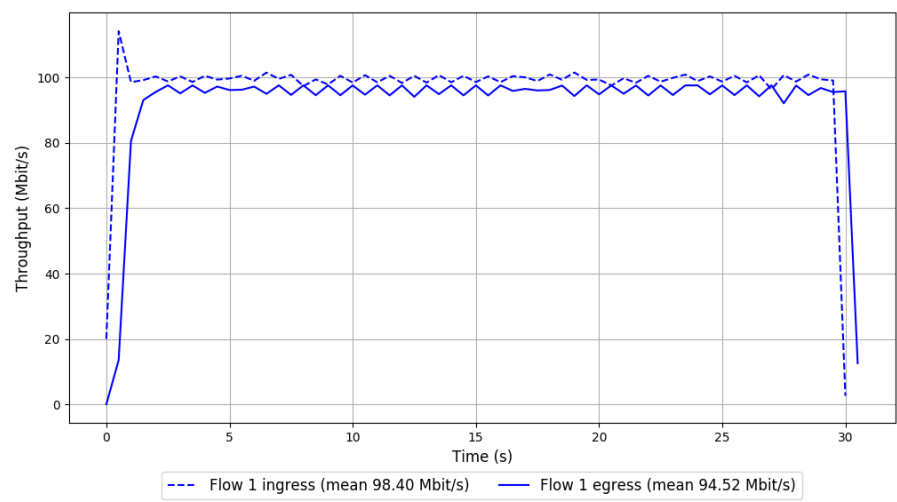
-- Flow 1:

Average throughput: 94.52 Mbit/s

95th percentile per-packet one-way delay: 66.563 ms

Loss rate: 3.90%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-07-24 07:32:44

End at: 2018-07-24 07:33:14

Local clock offset: -7.696 ms

Remote clock offset: 4.624 ms

Below is generated by plot.py at 2018-07-24 10:27:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.56 Mbit/s

95th percentile per-packet one-way delay: 69.201 ms

Loss rate: 4.07%

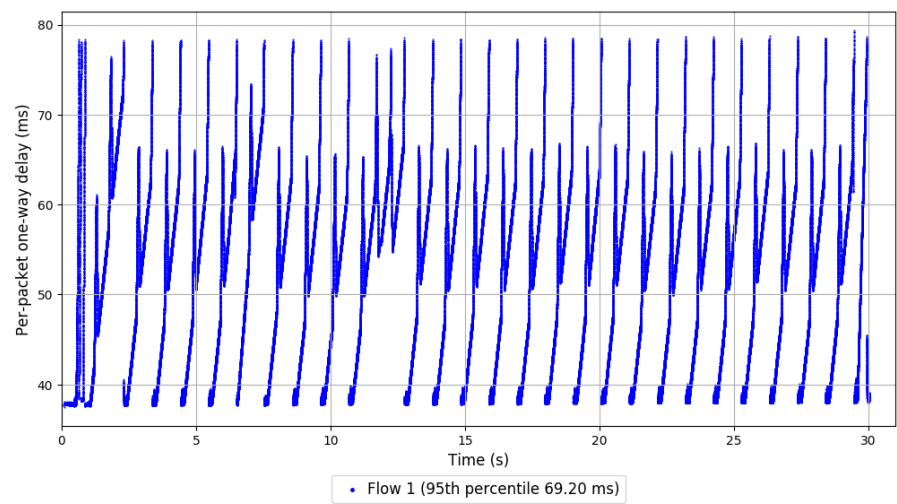
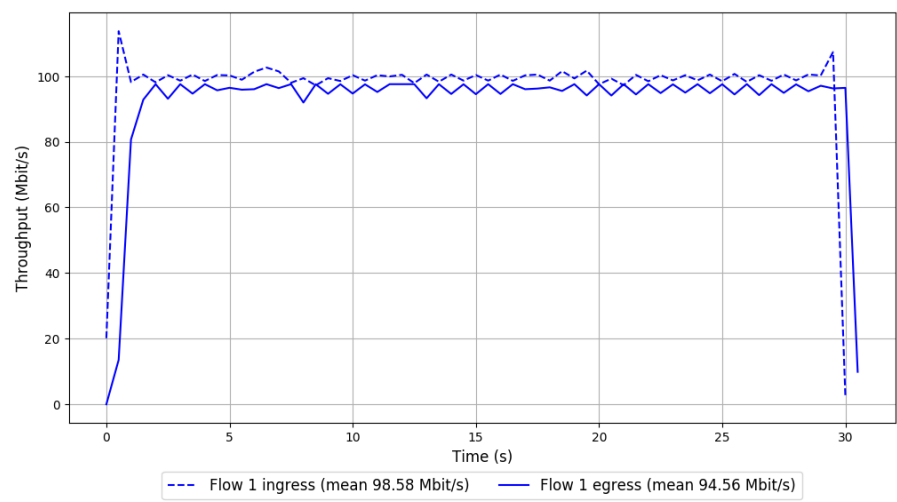
-- Flow 1:

Average throughput: 94.56 Mbit/s

95th percentile per-packet one-way delay: 69.201 ms

Loss rate: 4.07%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-07-24 07:55:00

End at: 2018-07-24 07:55:30

Local clock offset: -3.261 ms

Remote clock offset: 3.938 ms

Below is generated by plot.py at 2018-07-24 10:27:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.49 Mbit/s

95th percentile per-packet one-way delay: 67.187 ms

Loss rate: 3.84%

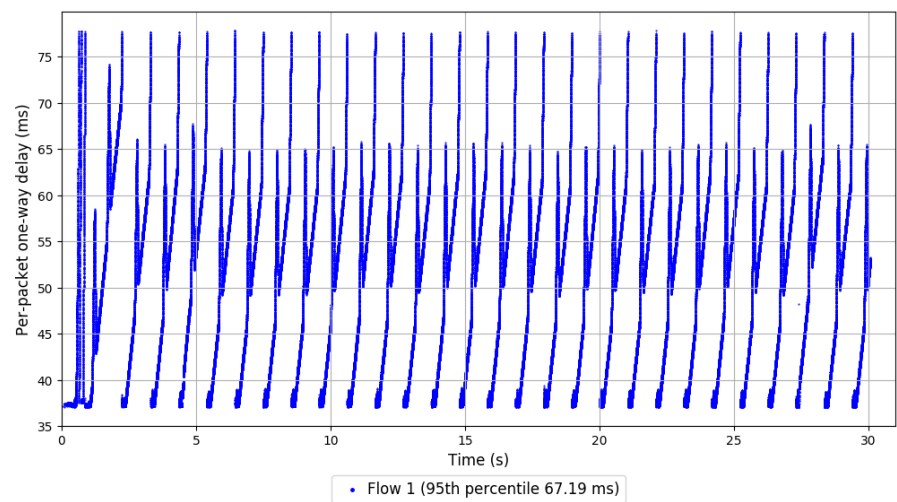
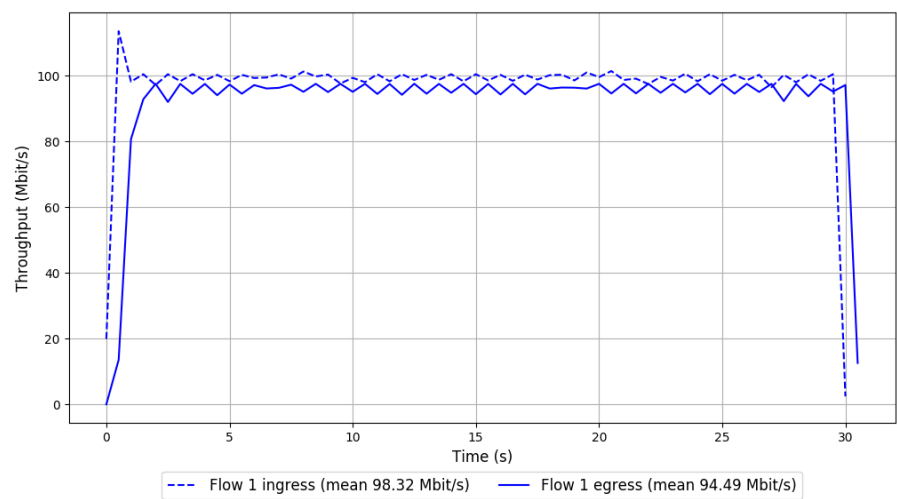
-- Flow 1:

Average throughput: 94.49 Mbit/s

95th percentile per-packet one-way delay: 67.187 ms

Loss rate: 3.84%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-07-24 08:17:19

End at: 2018-07-24 08:17:49

Local clock offset: -1.011 ms

Remote clock offset: 3.879 ms

Below is generated by plot.py at 2018-07-24 10:27:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.53 Mbit/s

95th percentile per-packet one-way delay: 66.374 ms

Loss rate: 3.90%

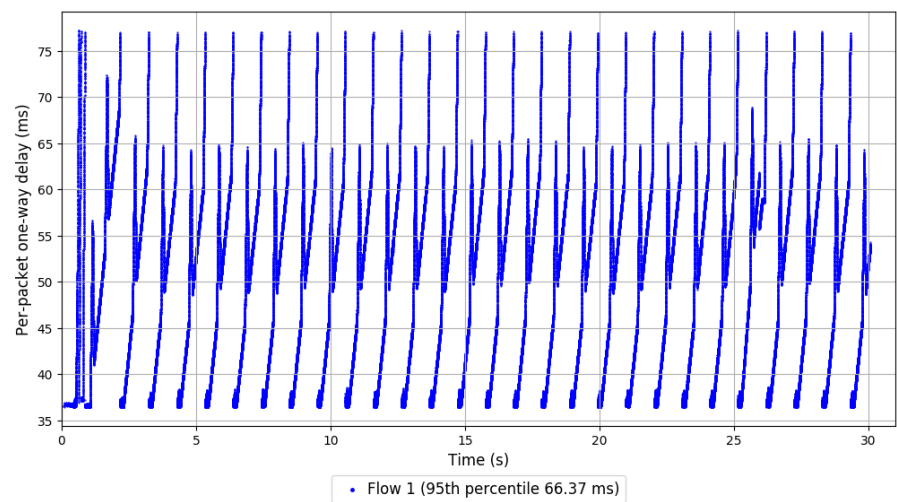
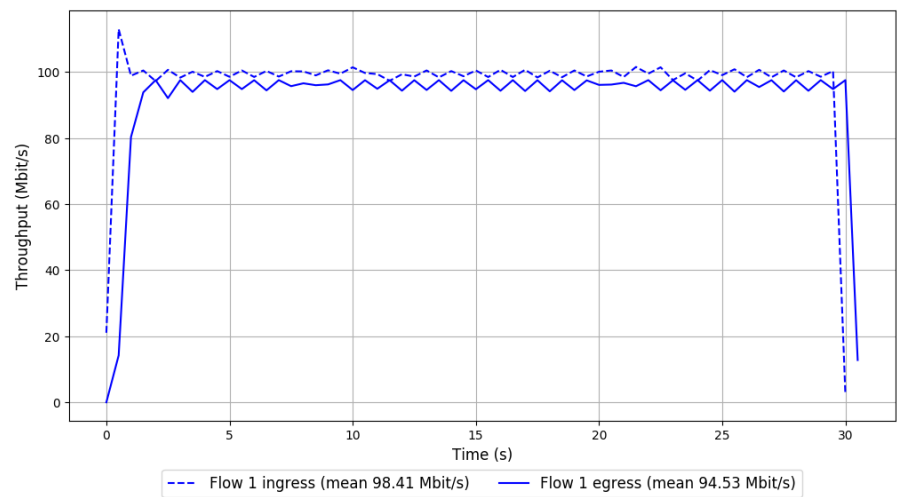
-- Flow 1:

Average throughput: 94.53 Mbit/s

95th percentile per-packet one-way delay: 66.374 ms

Loss rate: 3.90%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-07-24 08:39:40

End at: 2018-07-24 08:40:10

Local clock offset: -0.847 ms

Remote clock offset: 3.878 ms

Below is generated by plot.py at 2018-07-24 10:27:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.46 Mbit/s

95th percentile per-packet one-way delay: 67.953 ms

Loss rate: 3.88%

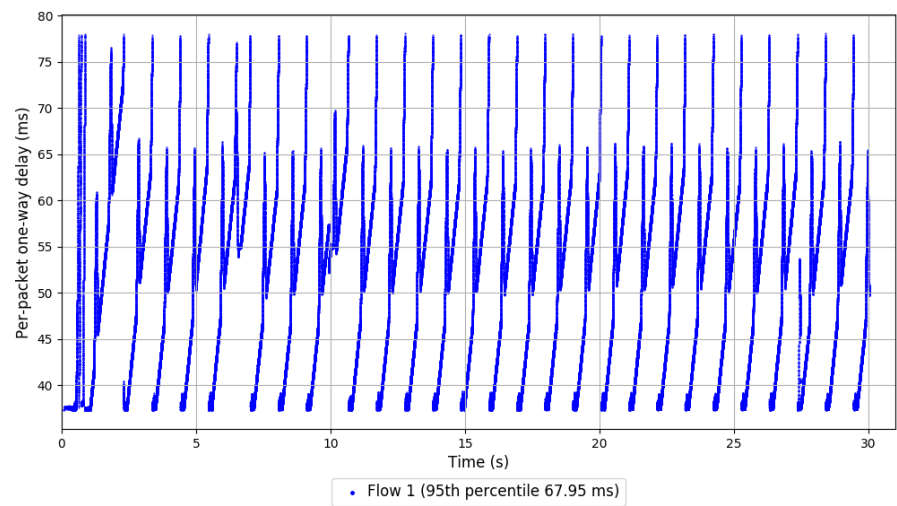
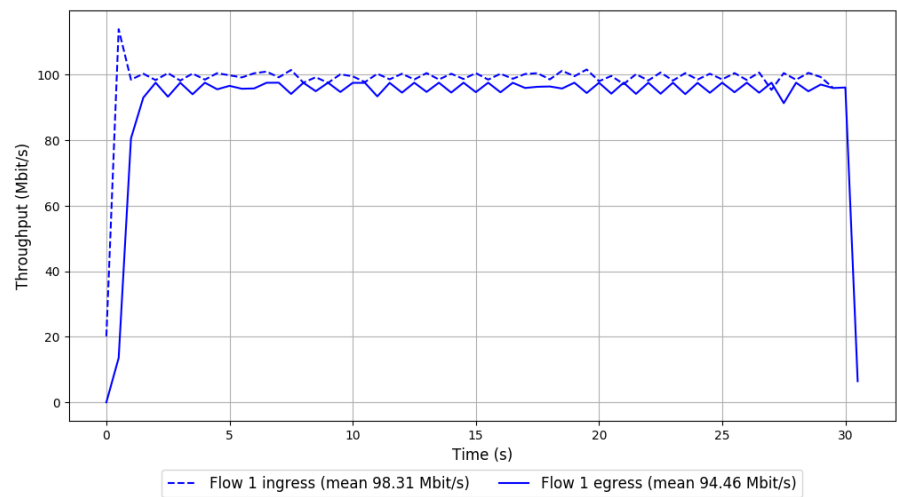
-- Flow 1:

Average throughput: 94.46 Mbit/s

95th percentile per-packet one-way delay: 67.953 ms

Loss rate: 3.88%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-07-24 09:01:56

End at: 2018-07-24 09:02:26

Local clock offset: -1.348 ms

Remote clock offset: 4.97 ms

Below is generated by plot.py at 2018-07-24 10:27:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.40 Mbit/s

95th percentile per-packet one-way delay: 67.659 ms

Loss rate: 4.17%

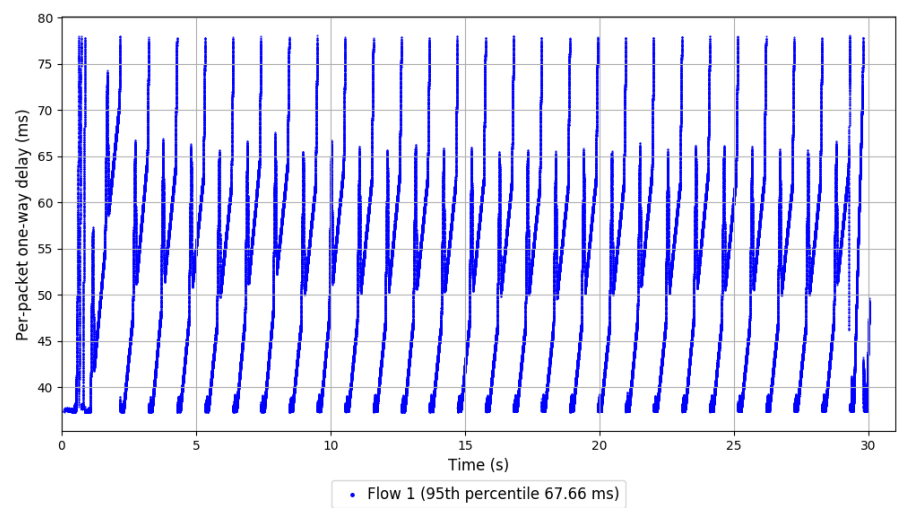
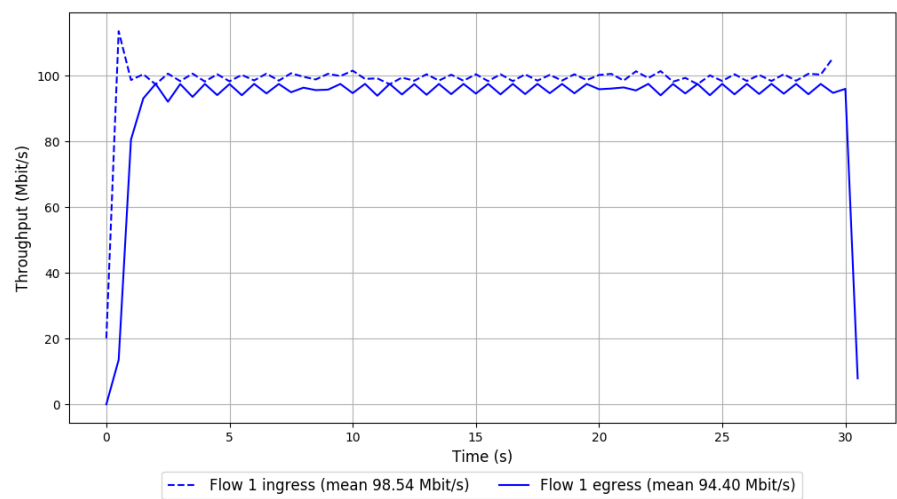
-- Flow 1:

Average throughput: 94.40 Mbit/s

95th percentile per-packet one-way delay: 67.659 ms

Loss rate: 4.17%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-07-24 09:24:11

End at: 2018-07-24 09:24:41

Local clock offset: -0.474 ms

Remote clock offset: 4.901 ms

Below is generated by plot.py at 2018-07-24 10:27:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.46 Mbit/s

95th percentile per-packet one-way delay: 67.181 ms

Loss rate: 3.86%

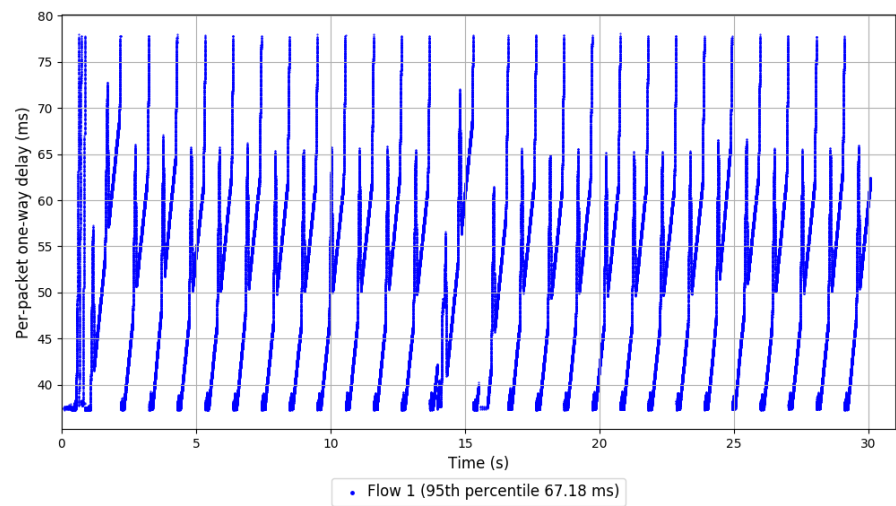
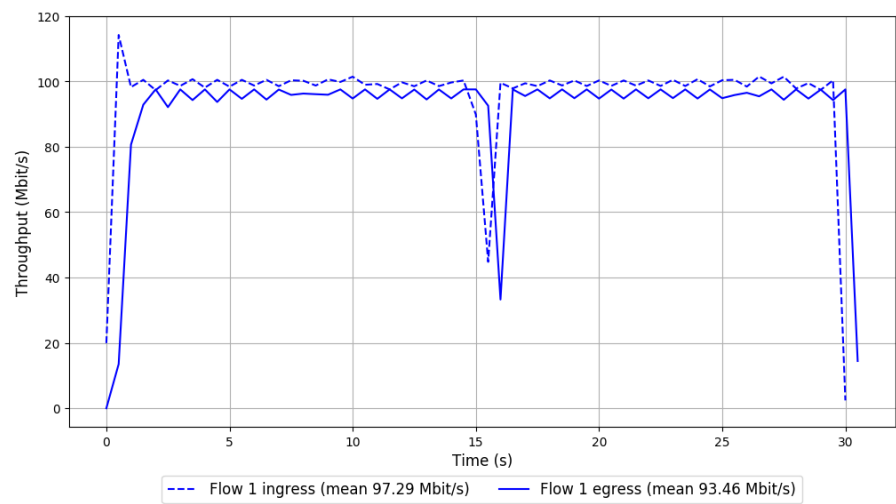
-- Flow 1:

Average throughput: 93.46 Mbit/s

95th percentile per-packet one-way delay: 67.181 ms

Loss rate: 3.86%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-07-24 09:46:24

End at: 2018-07-24 09:46:54

Local clock offset: 1.026 ms

Remote clock offset: 4.226 ms

Below is generated by plot.py at 2018-07-24 10:28:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.62 Mbit/s

95th percentile per-packet one-way delay: 68.551 ms

Loss rate: 4.20%

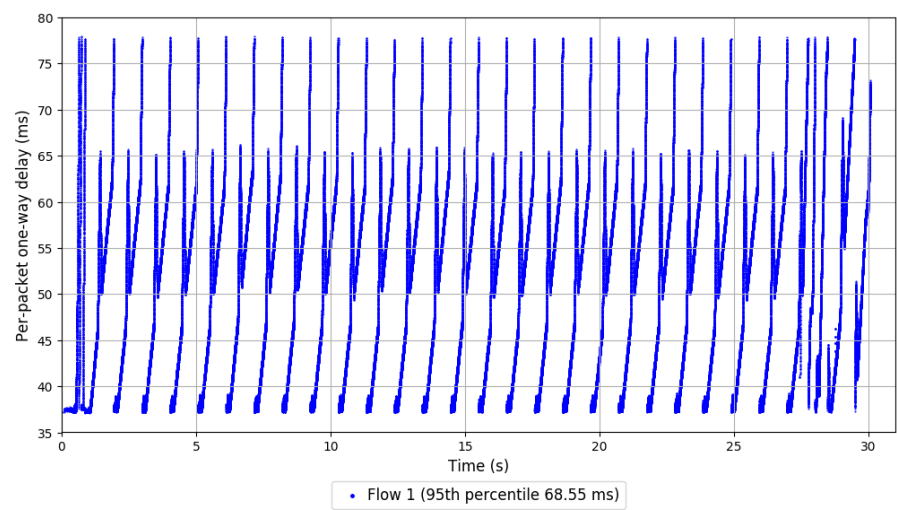
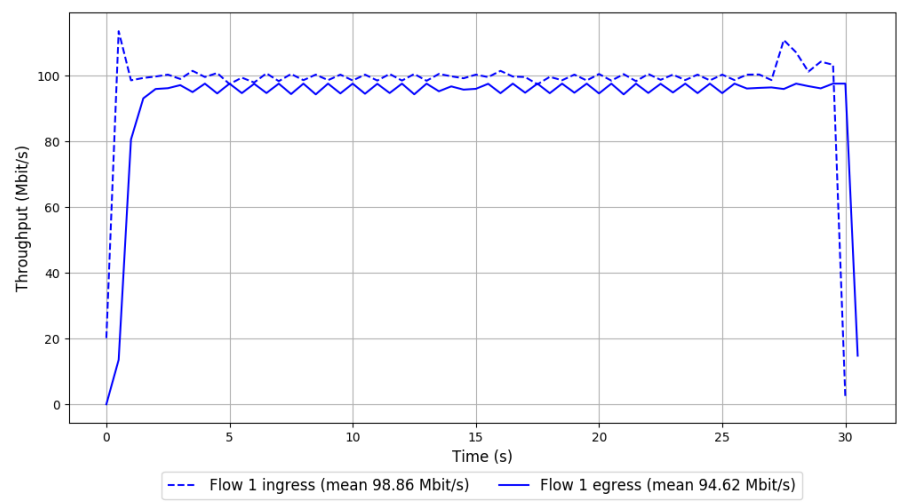
-- Flow 1:

Average throughput: 94.62 Mbit/s

95th percentile per-packet one-way delay: 68.551 ms

Loss rate: 4.20%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-07-24 10:08:38

End at: 2018-07-24 10:09:08

Local clock offset: 1.497 ms

Remote clock offset: 5.133 ms

Below is generated by plot.py at 2018-07-24 10:28:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.57 Mbit/s

95th percentile per-packet one-way delay: 68.045 ms

Loss rate: 3.98%

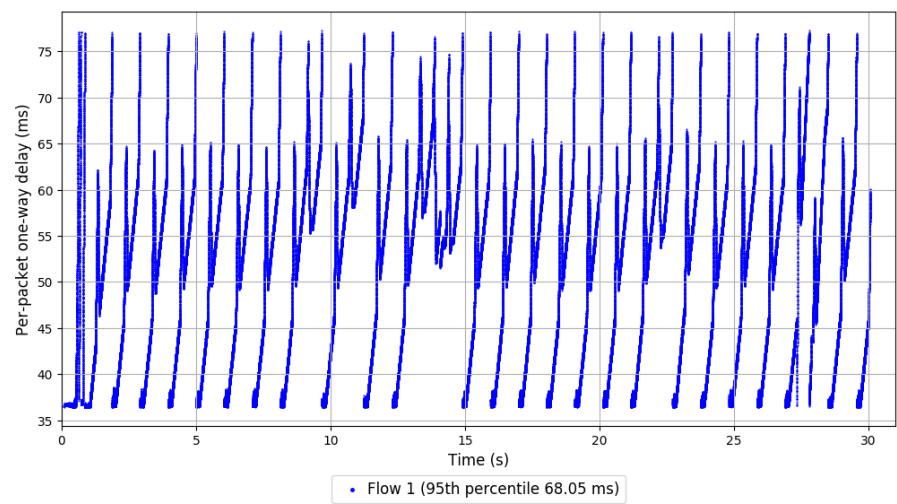
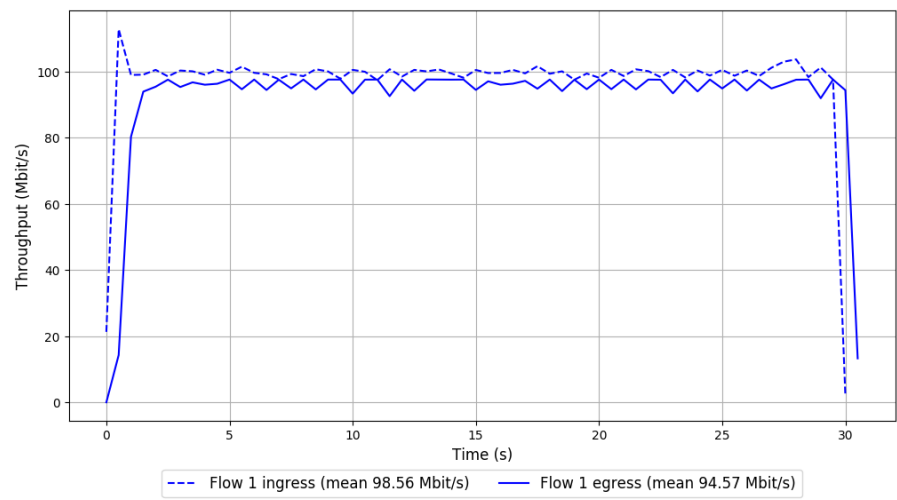
-- Flow 1:

Average throughput: 94.57 Mbit/s

95th percentile per-packet one-way delay: 68.045 ms

Loss rate: 3.98%

Run 10: Report of TCP BBR — Data Link

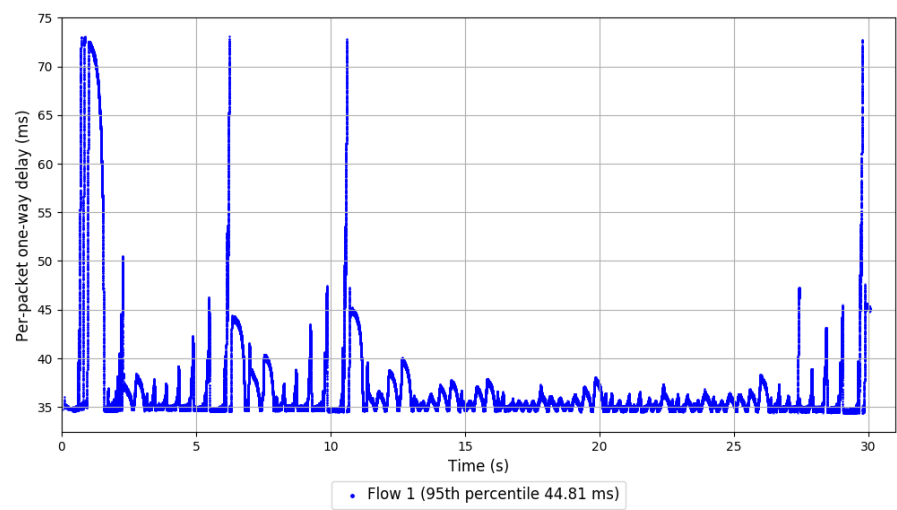
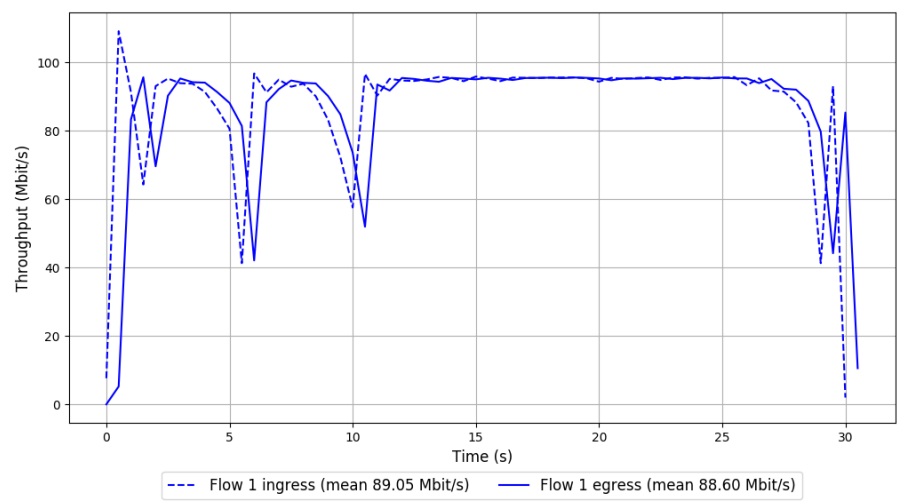


Run 1: Statistics of Copa

Start at: 2018-07-24 06:58:37
End at: 2018-07-24 06:59:07
Local clock offset: -15.418 ms
Remote clock offset: 1.968 ms

Below is generated by plot.py at 2018-07-24 10:29:43
Datalink statistics
-- Total of 1 flow:
Average throughput: 88.60 Mbit/s
95th percentile per-packet one-way delay: 44.810 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 88.60 Mbit/s
95th percentile per-packet one-way delay: 44.810 ms
Loss rate: 0.47%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-07-24 07:20:56

End at: 2018-07-24 07:21:26

Local clock offset: -6.557 ms

Remote clock offset: 2.179 ms

Below is generated by plot.py at 2018-07-24 10:29:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.77 Mbit/s

95th percentile per-packet one-way delay: 50.768 ms

Loss rate: 1.47%

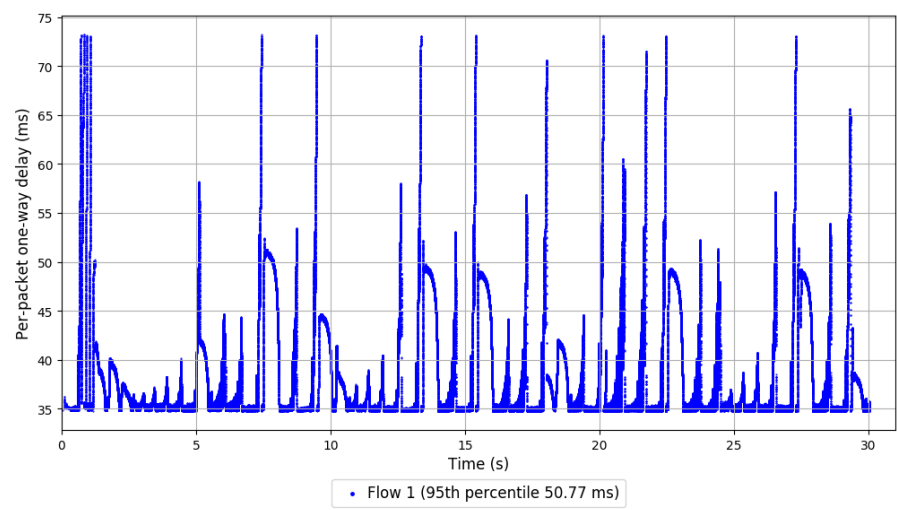
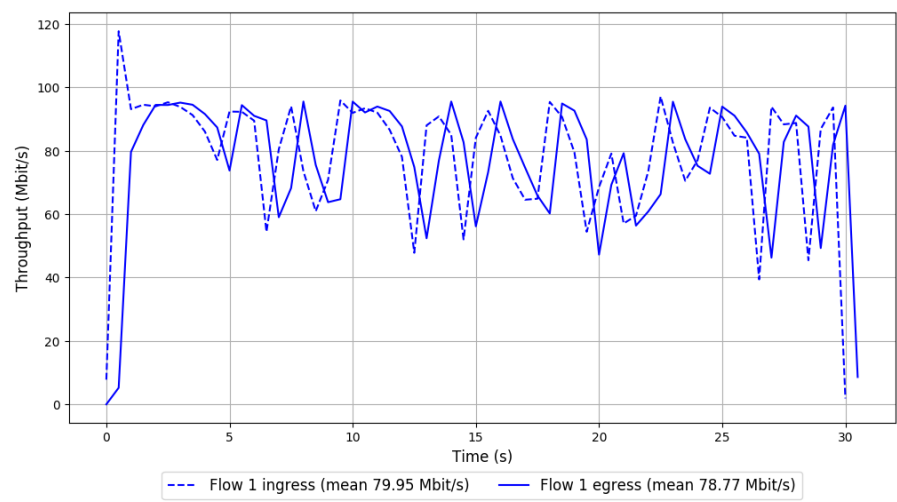
-- Flow 1:

Average throughput: 78.77 Mbit/s

95th percentile per-packet one-way delay: 50.768 ms

Loss rate: 1.47%

Run 2: Report of Copa — Data Link

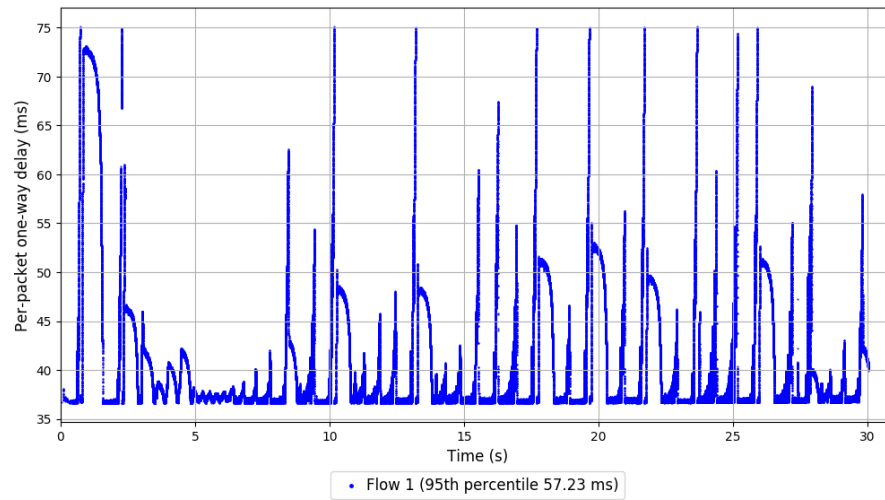
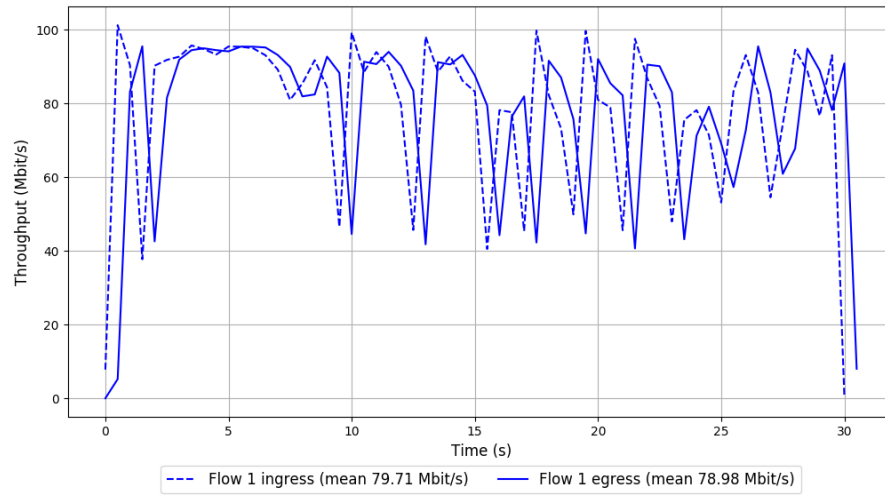


Run 3: Statistics of Copa

Start at: 2018-07-24 07:43:10
End at: 2018-07-24 07:43:40
Local clock offset: -3.292 ms
Remote clock offset: 3.691 ms

Below is generated by plot.py at 2018-07-24 10:29:43
Datalink statistics
-- Total of 1 flow:
Average throughput: 78.98 Mbit/s
95th percentile per-packet one-way delay: 57.229 ms
Loss rate: 0.90%
-- Flow 1:
Average throughput: 78.98 Mbit/s
95th percentile per-packet one-way delay: 57.229 ms
Loss rate: 0.90%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-07-24 08:05:29

End at: 2018-07-24 08:05:59

Local clock offset: -2.673 ms

Remote clock offset: 3.883 ms

Below is generated by plot.py at 2018-07-24 10:29:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.22 Mbit/s

95th percentile per-packet one-way delay: 51.926 ms

Loss rate: 1.47%

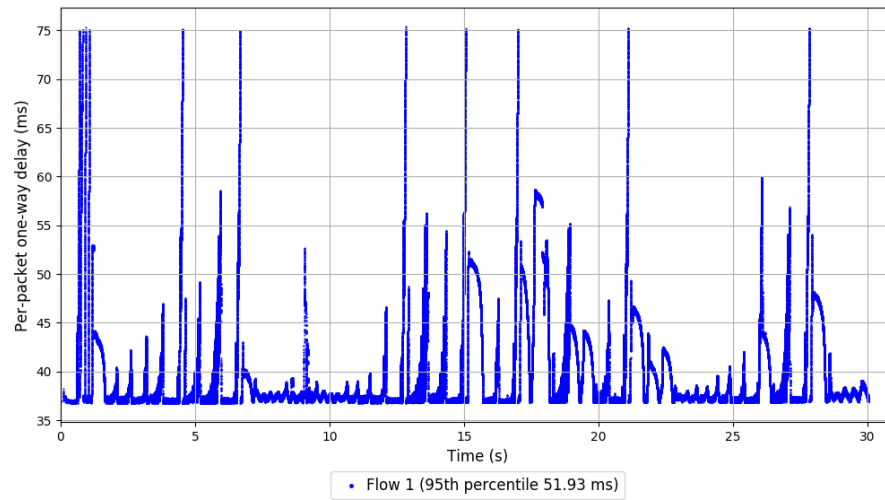
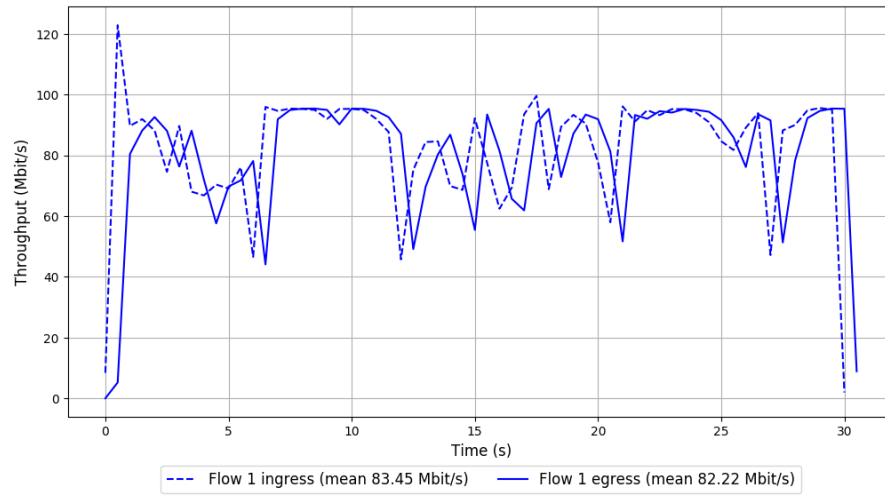
-- Flow 1:

Average throughput: 82.22 Mbit/s

95th percentile per-packet one-way delay: 51.926 ms

Loss rate: 1.47%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-07-24 08:27:47

End at: 2018-07-24 08:28:17

Local clock offset: -1.271 ms

Remote clock offset: 3.951 ms

Below is generated by plot.py at 2018-07-24 10:29:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.22 Mbit/s

95th percentile per-packet one-way delay: 51.062 ms

Loss rate: 0.74%

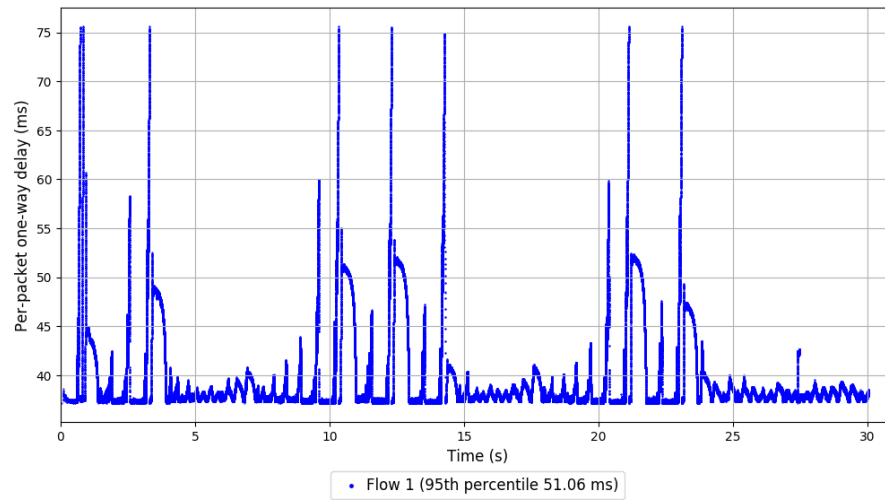
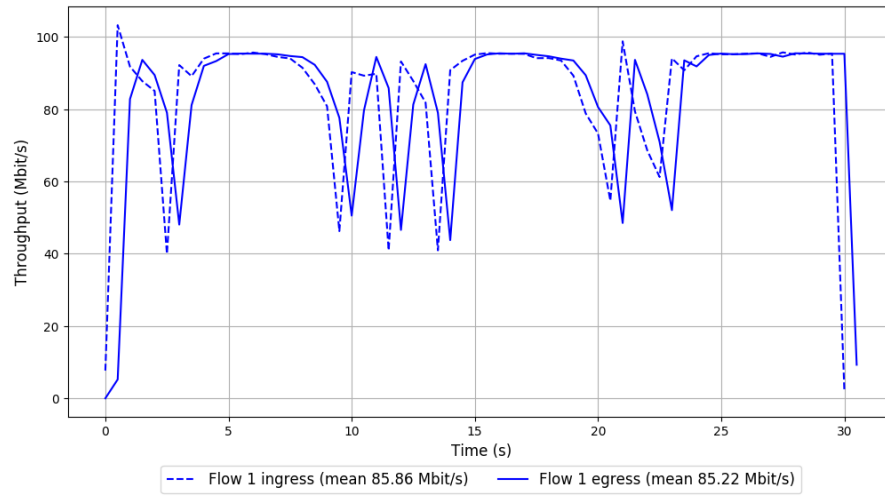
-- Flow 1:

Average throughput: 85.22 Mbit/s

95th percentile per-packet one-way delay: 51.062 ms

Loss rate: 0.74%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-07-24 08:50:06

End at: 2018-07-24 08:50:36

Local clock offset: -0.856 ms

Remote clock offset: 4.286 ms

Below is generated by plot.py at 2018-07-24 10:29:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.90 Mbit/s

95th percentile per-packet one-way delay: 49.144 ms

Loss rate: 0.44%

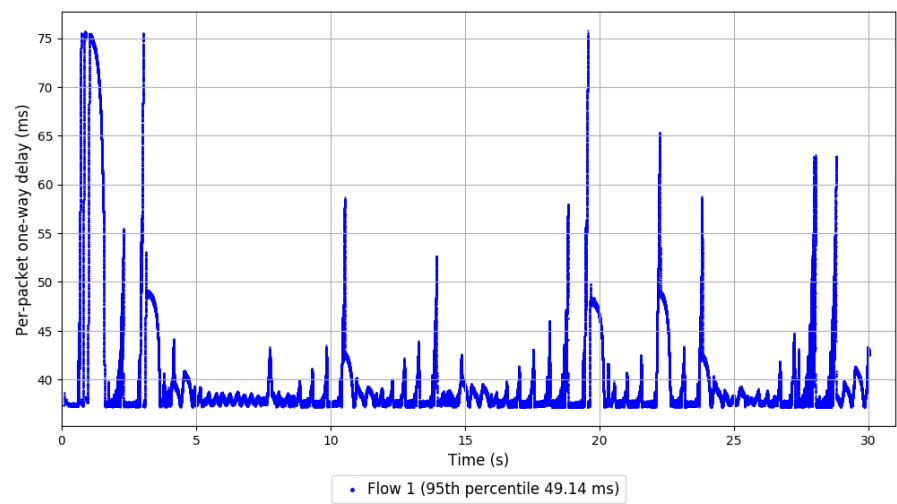
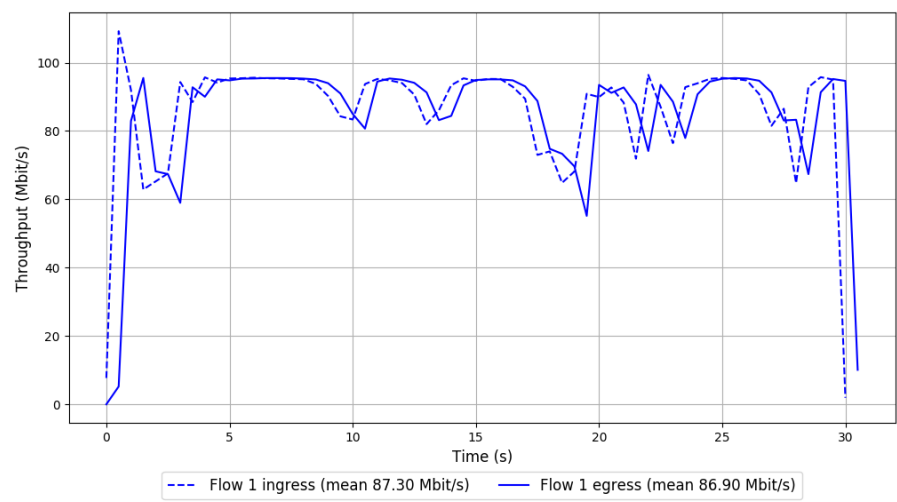
-- Flow 1:

Average throughput: 86.90 Mbit/s

95th percentile per-packet one-way delay: 49.144 ms

Loss rate: 0.44%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-07-24 09:12:23

End at: 2018-07-24 09:12:53

Local clock offset: -0.405 ms

Remote clock offset: 2.926 ms

Below is generated by plot.py at 2018-07-24 10:30:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.60 Mbit/s

95th percentile per-packet one-way delay: 52.601 ms

Loss rate: 1.02%

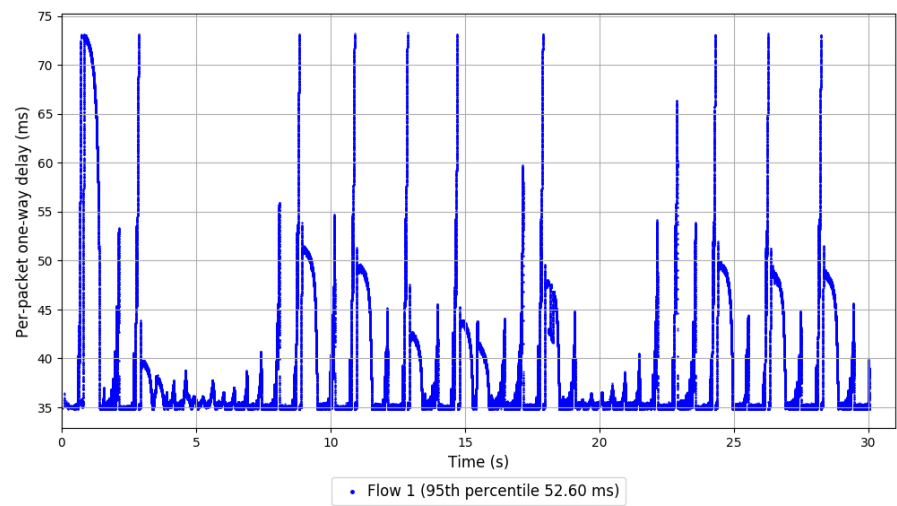
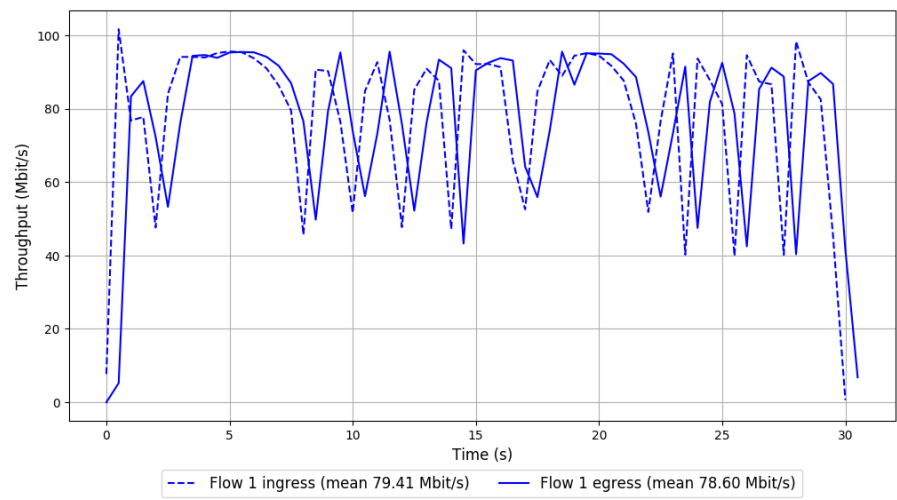
-- Flow 1:

Average throughput: 78.60 Mbit/s

95th percentile per-packet one-way delay: 52.601 ms

Loss rate: 1.02%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-07-24 09:34:36

End at: 2018-07-24 09:35:06

Local clock offset: -0.109 ms

Remote clock offset: 4.437 ms

Below is generated by plot.py at 2018-07-24 10:30:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 80.26 Mbit/s

95th percentile per-packet one-way delay: 55.548 ms

Loss rate: 1.20%

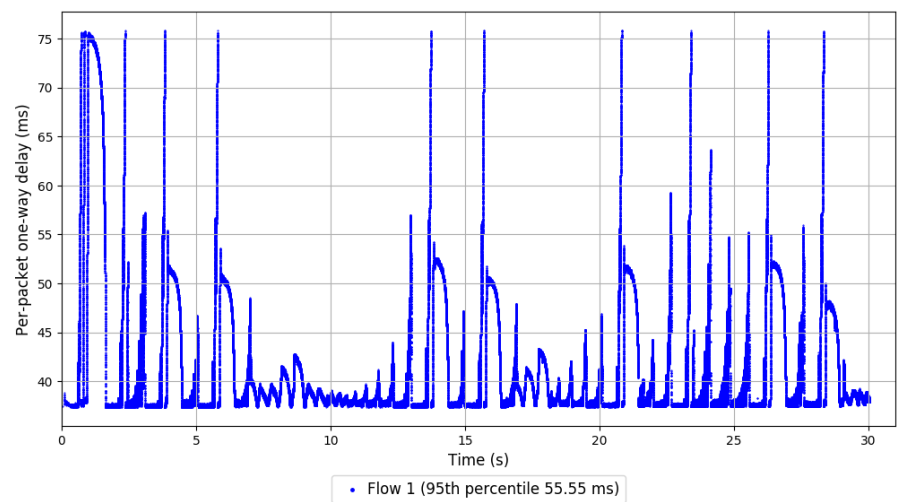
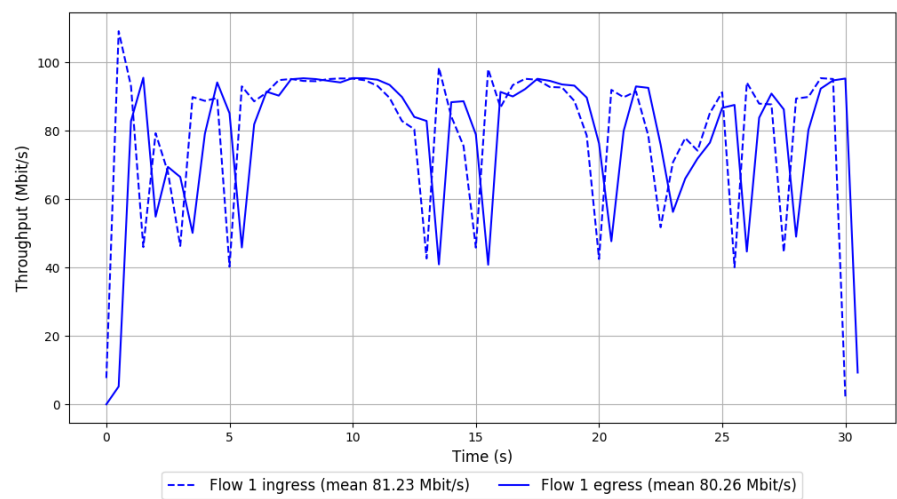
-- Flow 1:

Average throughput: 80.26 Mbit/s

95th percentile per-packet one-way delay: 55.548 ms

Loss rate: 1.20%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-07-24 09:56:50

End at: 2018-07-24 09:57:20

Local clock offset: 1.234 ms

Remote clock offset: 4.412 ms

Below is generated by plot.py at 2018-07-24 10:31:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 80.52 Mbit/s

95th percentile per-packet one-way delay: 56.528 ms

Loss rate: 0.89%

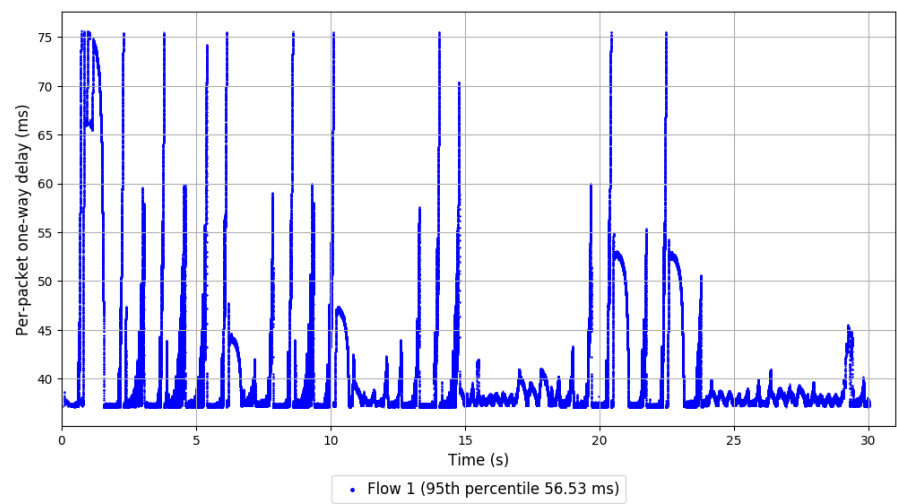
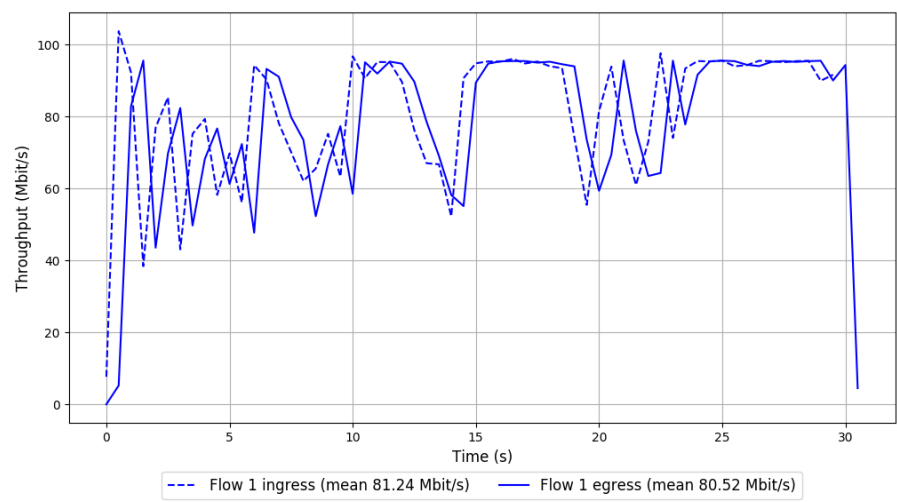
-- Flow 1:

Average throughput: 80.52 Mbit/s

95th percentile per-packet one-way delay: 56.528 ms

Loss rate: 0.89%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-07-24 10:19:05

End at: 2018-07-24 10:19:35

Local clock offset: 1.638 ms

Remote clock offset: 5.448 ms

Below is generated by plot.py at 2018-07-24 10:31:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 80.26 Mbit/s

95th percentile per-packet one-way delay: 52.847 ms

Loss rate: 1.50%

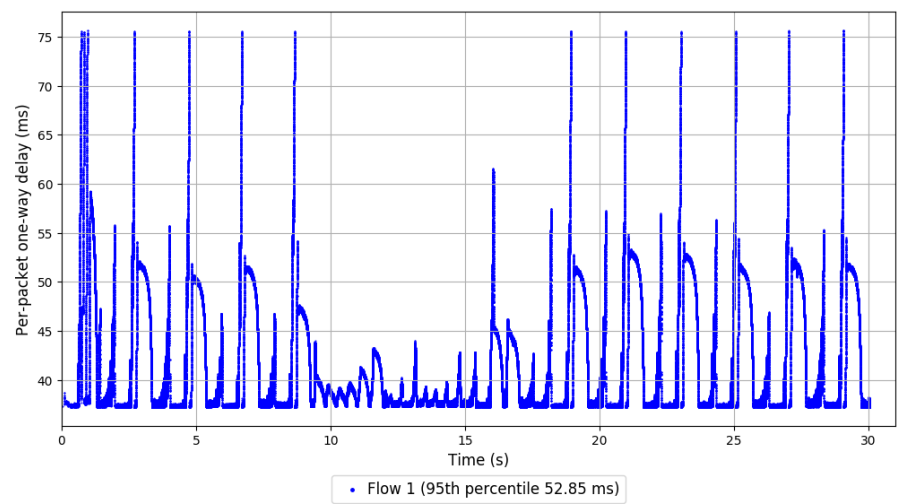
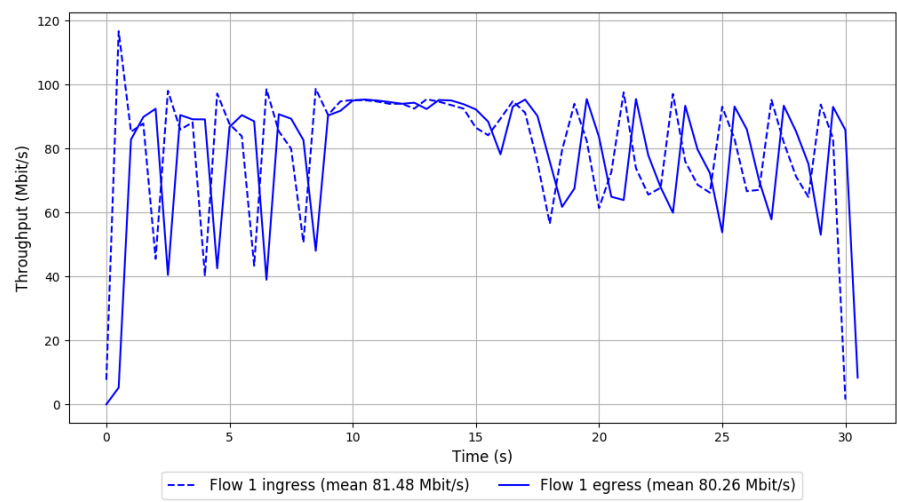
-- Flow 1:

Average throughput: 80.26 Mbit/s

95th percentile per-packet one-way delay: 52.847 ms

Loss rate: 1.50%

Run 10: Report of Copa — Data Link

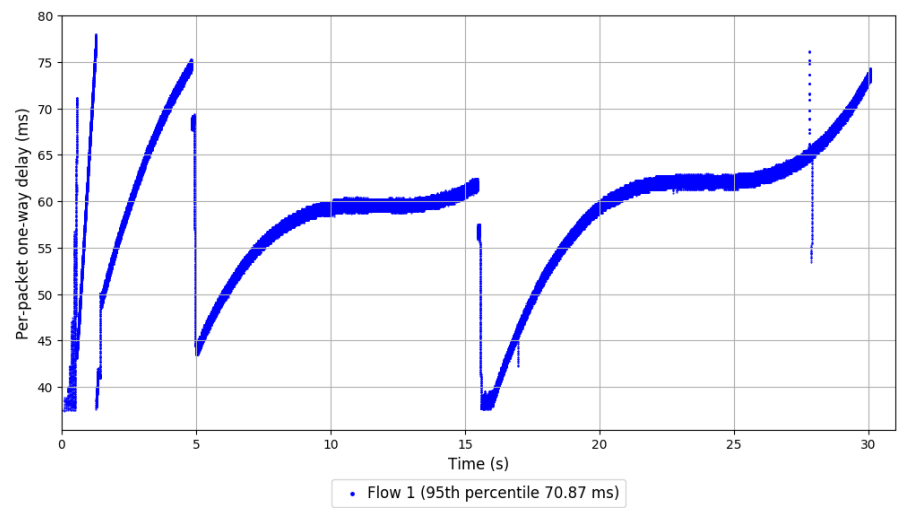
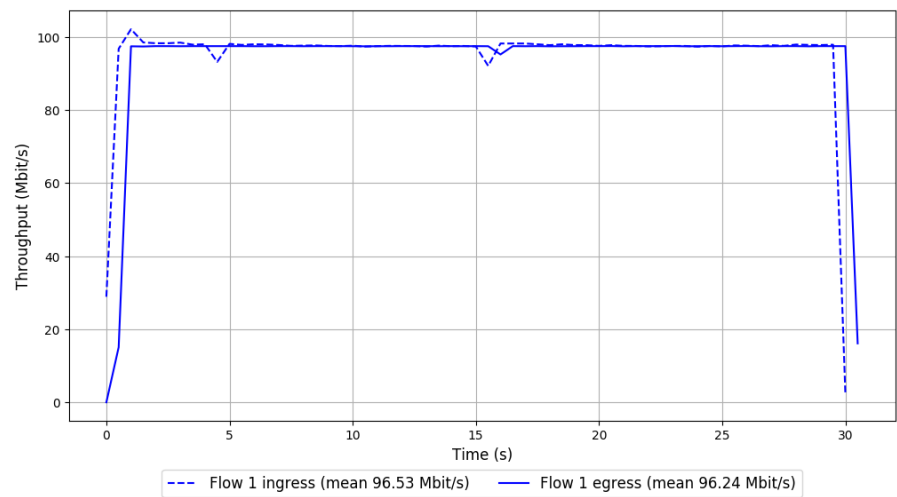


Run 1: Statistics of TCP Cubic

Start at: 2018-07-24 06:41:42
End at: 2018-07-24 06:42:12
Local clock offset: -14.349 ms
Remote clock offset: 4.318 ms

Below is generated by plot.py at 2018-07-24 10:31:19
Datalink statistics
-- Total of 1 flow:
Average throughput: 96.24 Mbit/s
95th percentile per-packet one-way delay: 70.873 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 96.24 Mbit/s
95th percentile per-packet one-way delay: 70.873 ms
Loss rate: 0.19%

Run 1: Report of TCP Cubic — Data Link

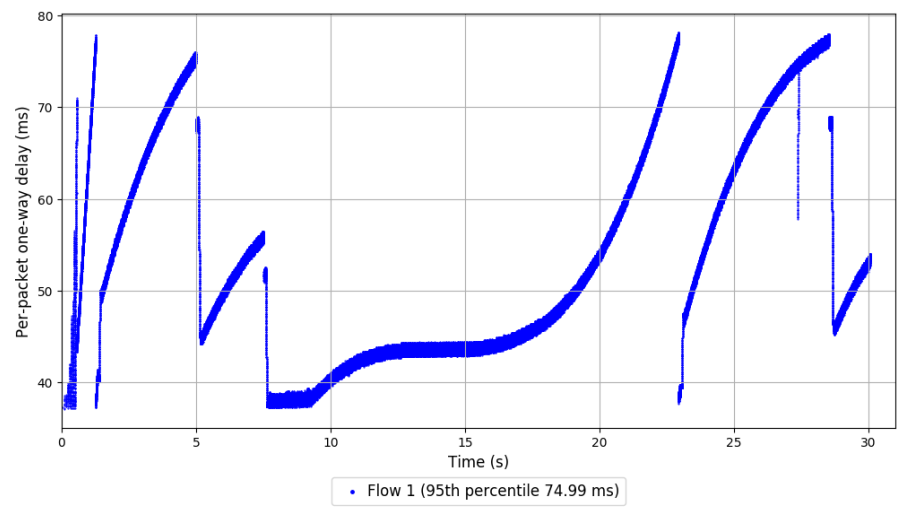
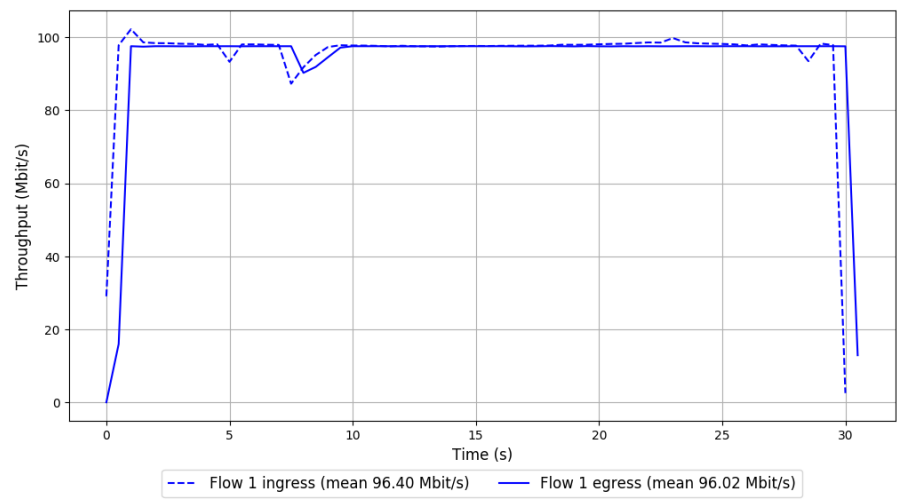


Run 2: Statistics of TCP Cubic

Start at: 2018-07-24 07:03:50
End at: 2018-07-24 07:04:20
Local clock offset: -13.838 ms
Remote clock offset: 4.331 ms

Below is generated by plot.py at 2018-07-24 10:31:19
Datalink statistics
-- Total of 1 flow:
Average throughput: 96.02 Mbit/s
95th percentile per-packet one-way delay: 74.992 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 96.02 Mbit/s
95th percentile per-packet one-way delay: 74.992 ms
Loss rate: 0.35%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-07-24 07:26:08

End at: 2018-07-24 07:26:38

Local clock offset: -7.144 ms

Remote clock offset: 2.226 ms

Below is generated by plot.py at 2018-07-24 10:31:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.26 Mbit/s

95th percentile per-packet one-way delay: 73.405 ms

Loss rate: 0.54%

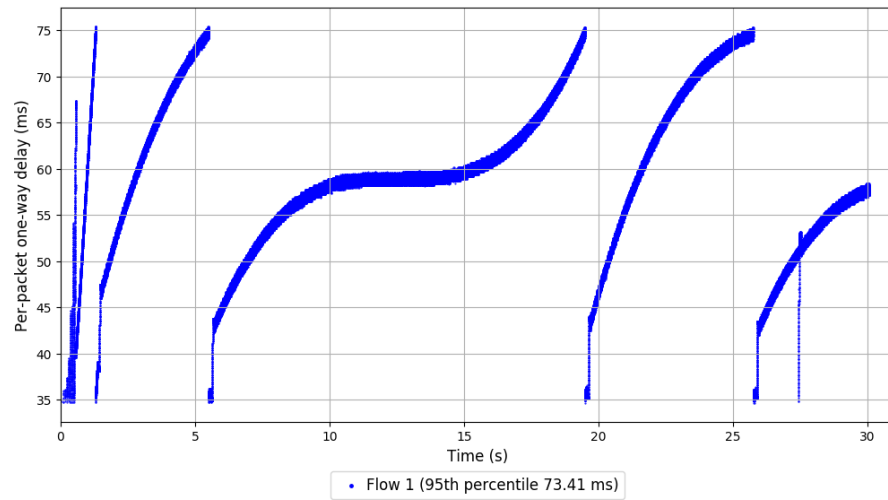
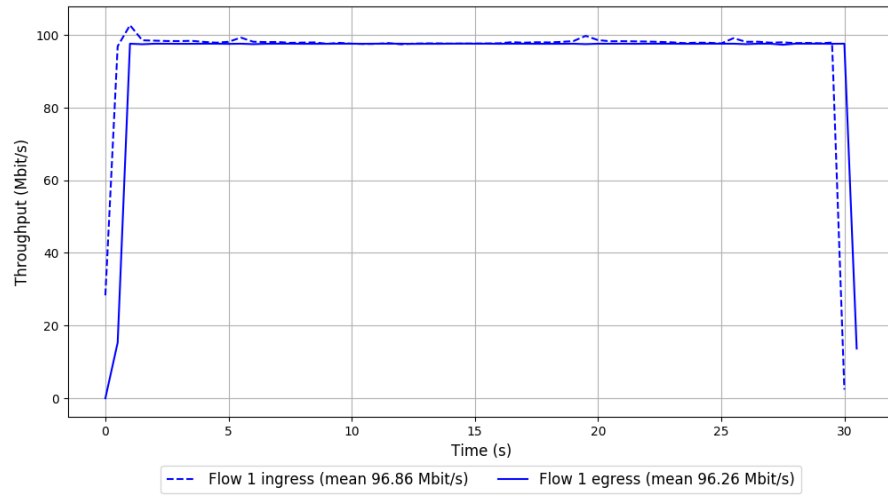
-- Flow 1:

Average throughput: 96.26 Mbit/s

95th percentile per-packet one-way delay: 73.405 ms

Loss rate: 0.54%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-07-24 07:48:24

End at: 2018-07-24 07:48:54

Local clock offset: -2.94 ms

Remote clock offset: 4.215 ms

Below is generated by plot.py at 2018-07-24 10:31:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.26 Mbit/s

95th percentile per-packet one-way delay: 75.987 ms

Loss rate: 0.54%

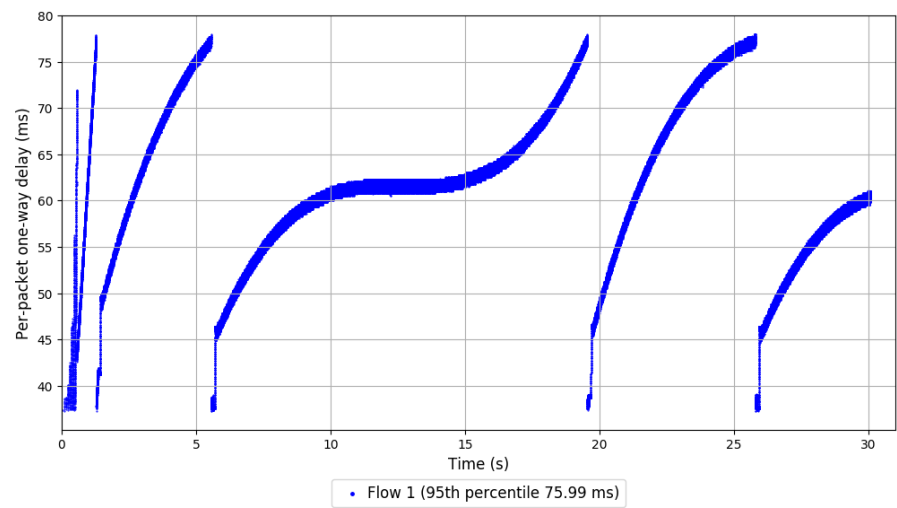
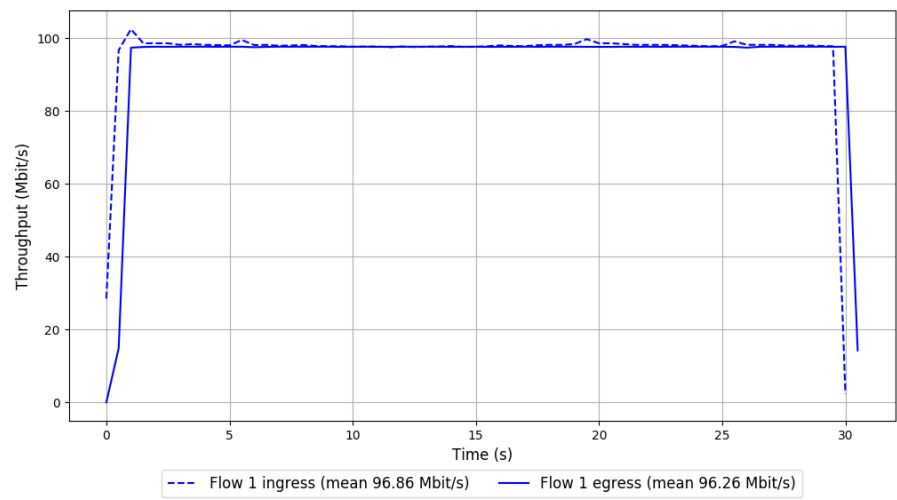
-- Flow 1:

Average throughput: 96.26 Mbit/s

95th percentile per-packet one-way delay: 75.987 ms

Loss rate: 0.54%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-07-24 08:10:43

End at: 2018-07-24 08:11:13

Local clock offset: -1.446 ms

Remote clock offset: 1.477 ms

Below is generated by plot.py at 2018-07-24 10:31:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.27 Mbit/s

95th percentile per-packet one-way delay: 68.293 ms

Loss rate: 0.31%

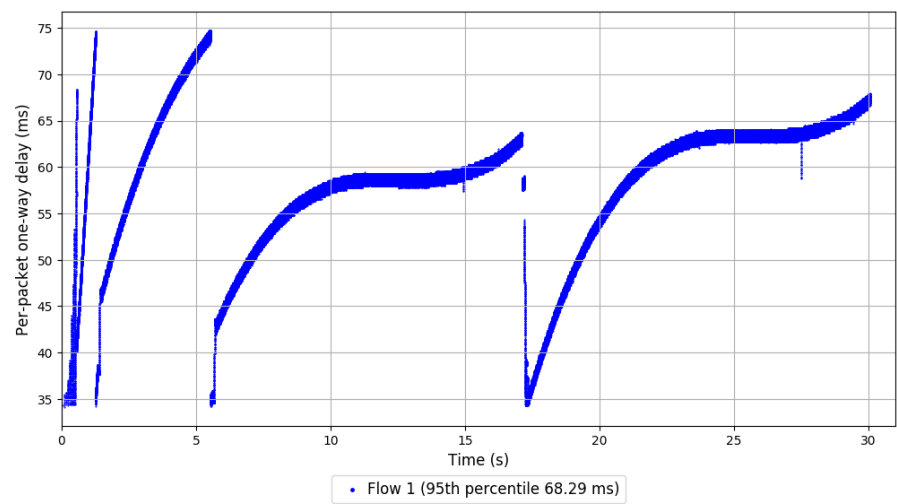
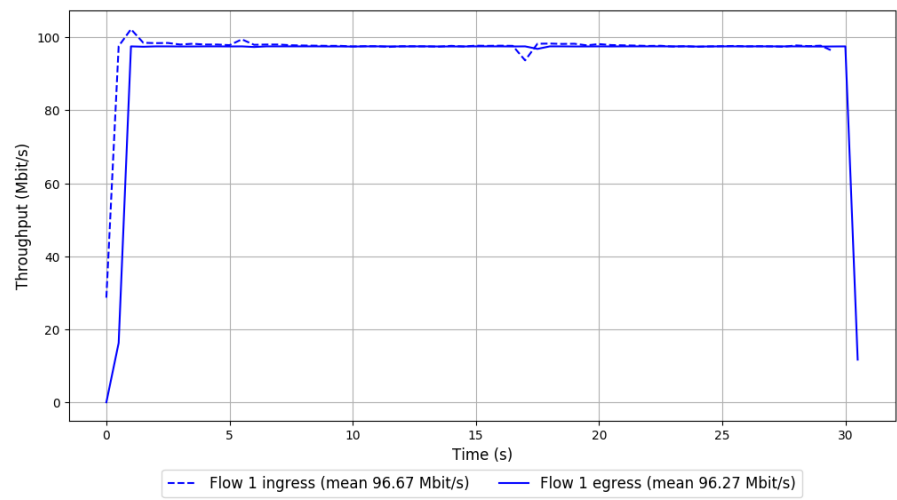
-- Flow 1:

Average throughput: 96.27 Mbit/s

95th percentile per-packet one-way delay: 68.293 ms

Loss rate: 0.31%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-07-24 08:33:02

End at: 2018-07-24 08:33:32

Local clock offset: -1.37 ms

Remote clock offset: 3.852 ms

Below is generated by plot.py at 2018-07-24 10:31:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.26 Mbit/s

95th percentile per-packet one-way delay: 75.479 ms

Loss rate: 0.33%

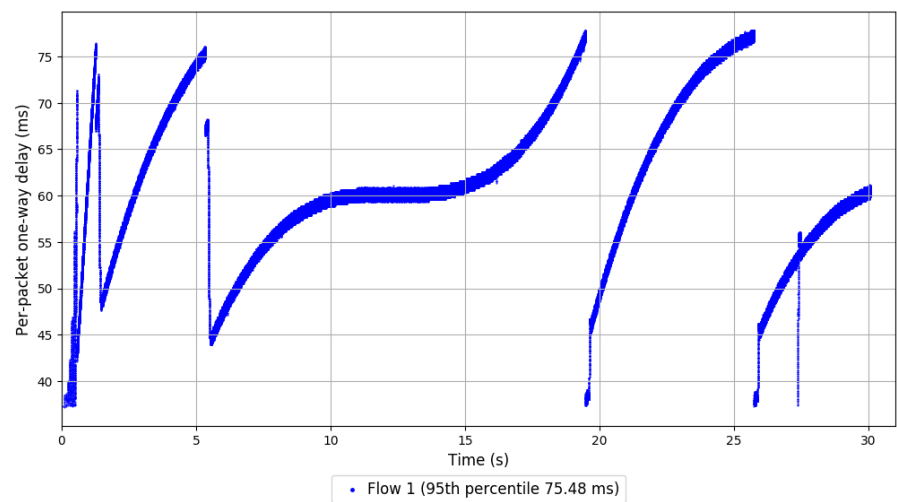
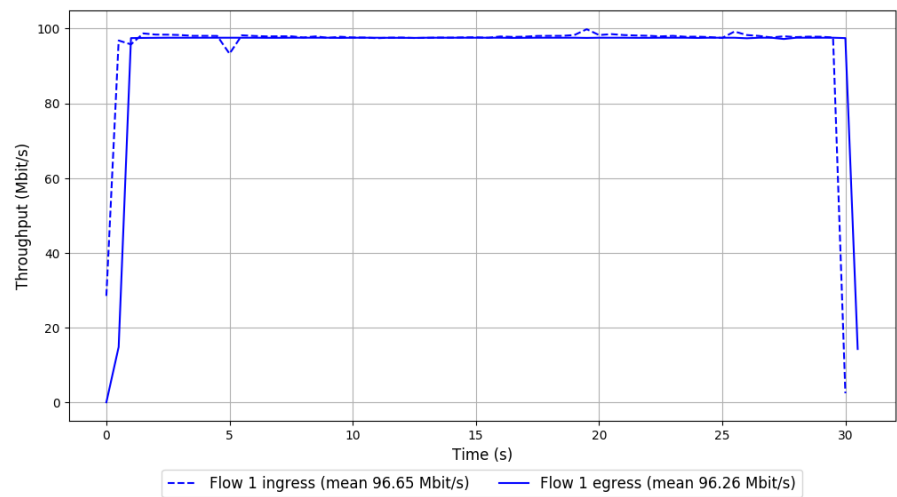
-- Flow 1:

Average throughput: 96.26 Mbit/s

95th percentile per-packet one-way delay: 75.479 ms

Loss rate: 0.33%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-07-24 08:55:19

End at: 2018-07-24 08:55:49

Local clock offset: -0.981 ms

Remote clock offset: 2.36 ms

Below is generated by plot.py at 2018-07-24 10:31:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.54 Mbit/s

95th percentile per-packet one-way delay: 73.253 ms

Loss rate: 0.48%

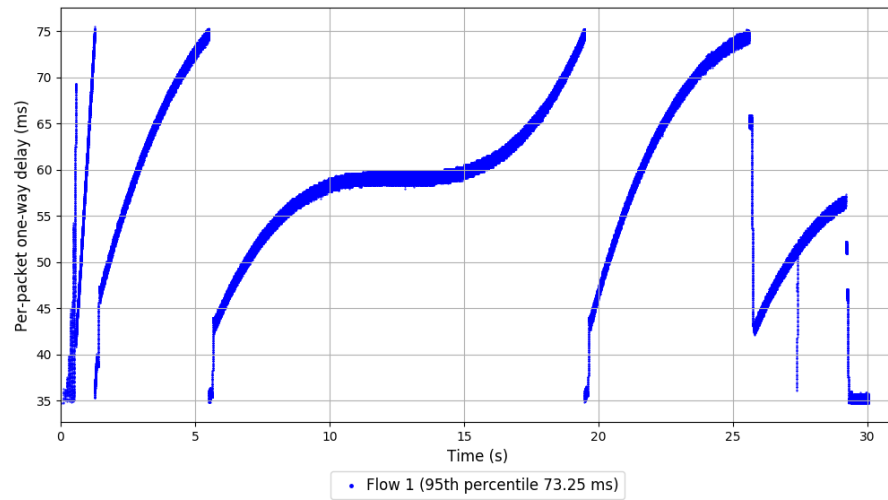
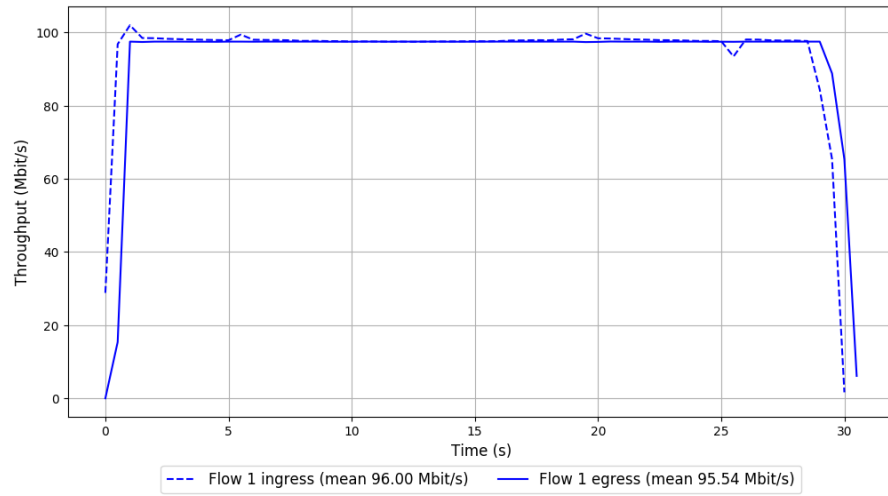
-- Flow 1:

Average throughput: 95.54 Mbit/s

95th percentile per-packet one-way delay: 73.253 ms

Loss rate: 0.48%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-07-24 09:17:36

End at: 2018-07-24 09:18:06

Local clock offset: -0.335 ms

Remote clock offset: 5.369 ms

Below is generated by plot.py at 2018-07-24 10:32:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.27 Mbit/s

95th percentile per-packet one-way delay: 70.317 ms

Loss rate: 0.21%

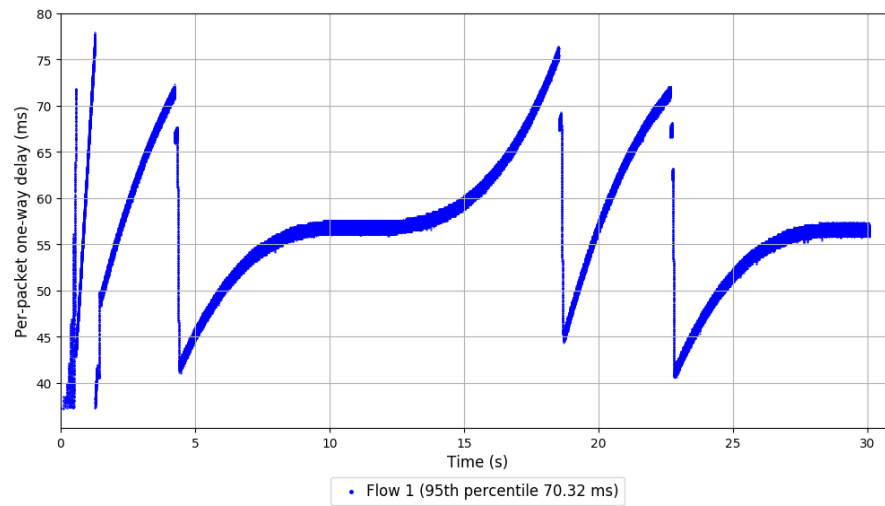
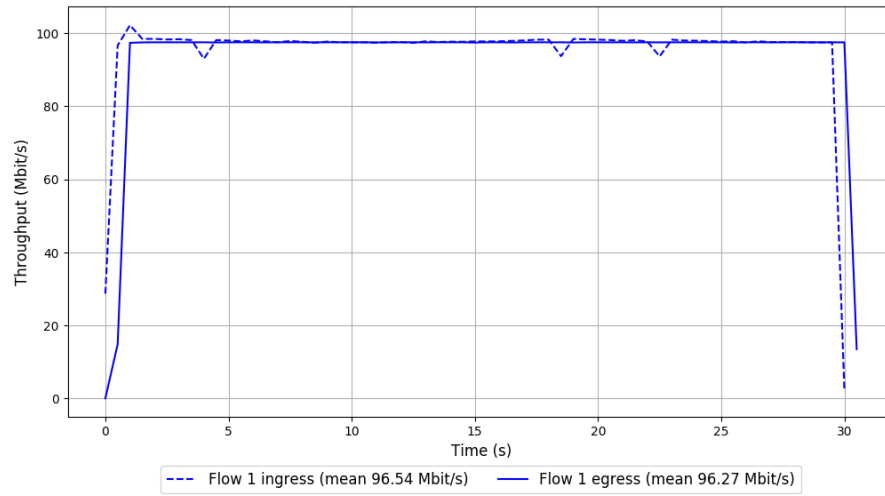
-- Flow 1:

Average throughput: 96.27 Mbit/s

95th percentile per-packet one-way delay: 70.317 ms

Loss rate: 0.21%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-07-24 09:39:48

End at: 2018-07-24 09:40:18

Local clock offset: 0.626 ms

Remote clock offset: 1.999 ms

Below is generated by plot.py at 2018-07-24 10:32:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.21 Mbit/s

95th percentile per-packet one-way delay: 69.696 ms

Loss rate: 0.33%

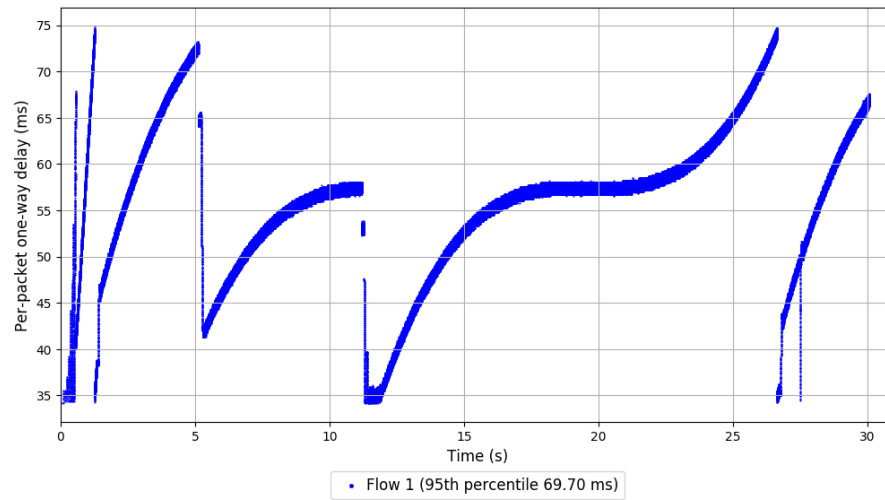
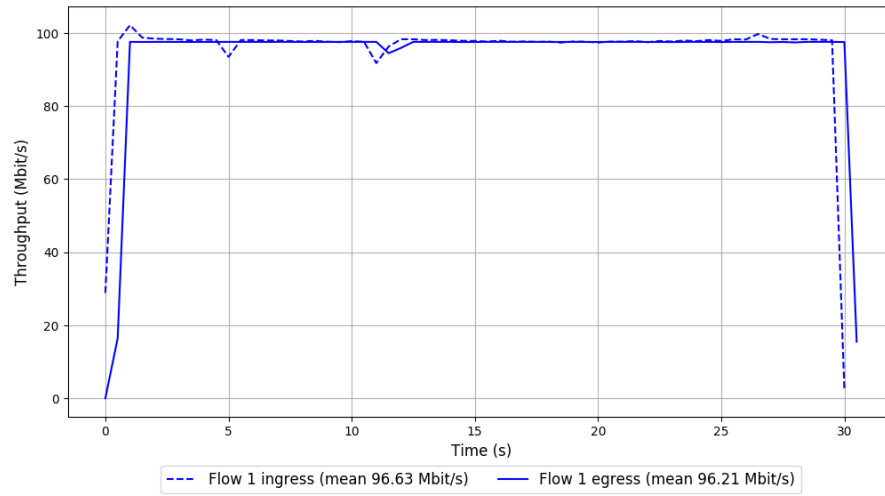
-- Flow 1:

Average throughput: 96.21 Mbit/s

95th percentile per-packet one-way delay: 69.696 ms

Loss rate: 0.33%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-07-24 10:02:03

End at: 2018-07-24 10:02:33

Local clock offset: 1.283 ms

Remote clock offset: 2.492 ms

Below is generated by plot.py at 2018-07-24 10:32:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.28 Mbit/s

95th percentile per-packet one-way delay: 72.001 ms

Loss rate: 0.42%

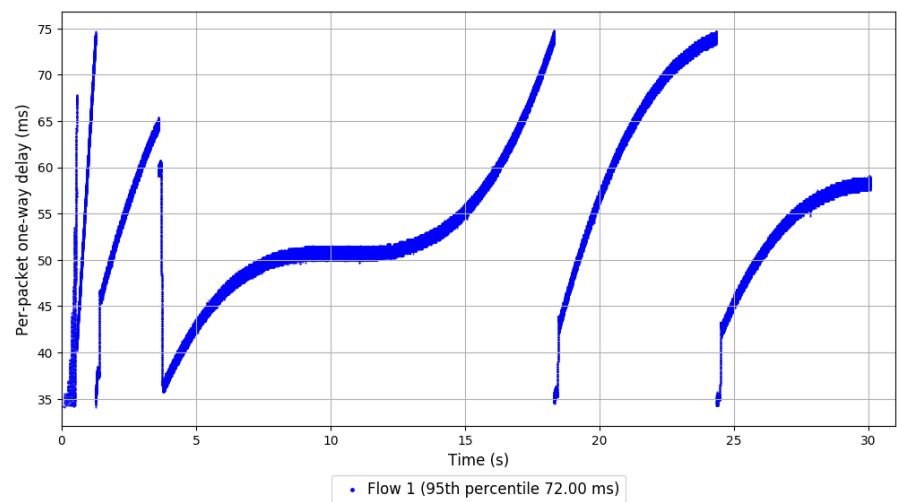
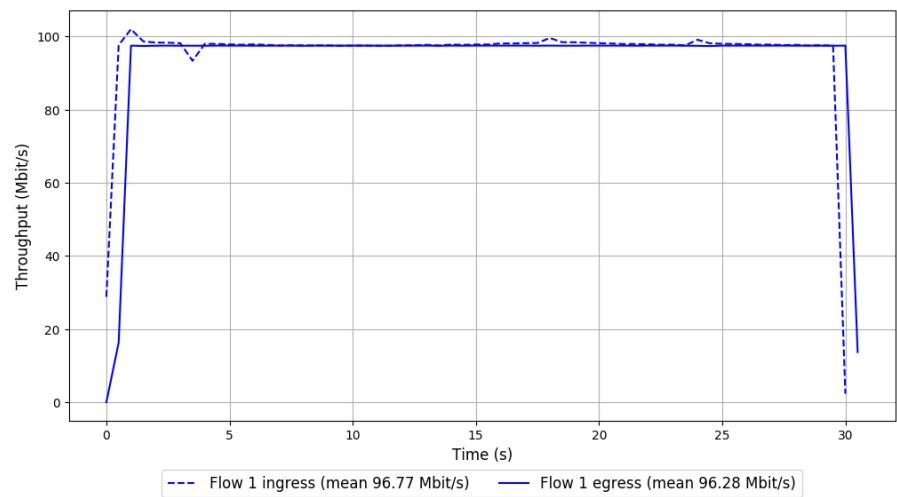
-- Flow 1:

Average throughput: 96.28 Mbit/s

95th percentile per-packet one-way delay: 72.001 ms

Loss rate: 0.42%

Run 10: Report of TCP Cubic — Data Link

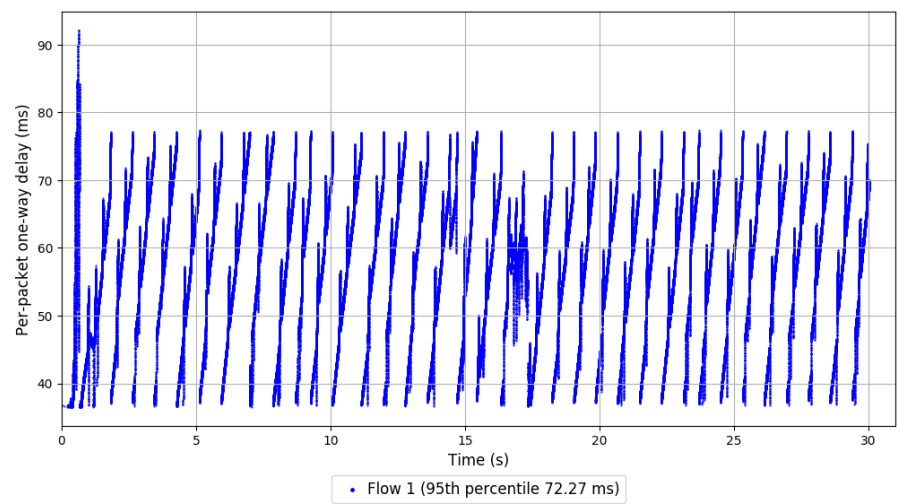
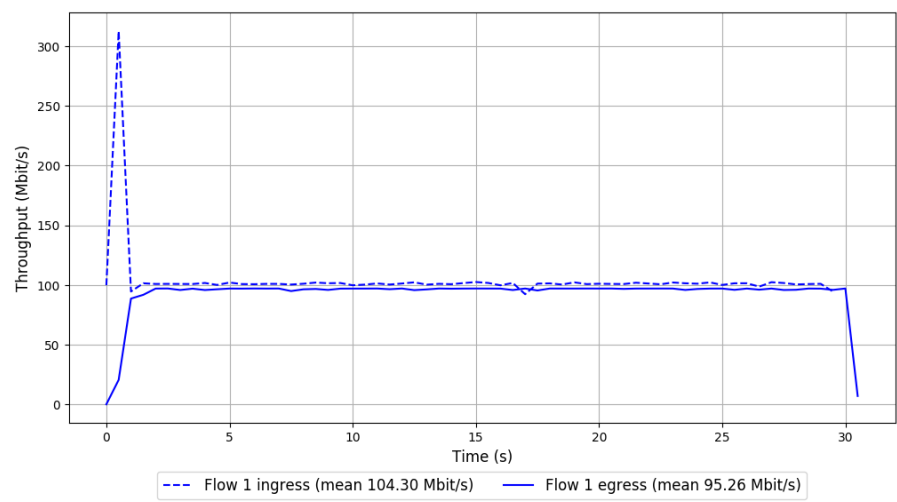


Run 1: Statistics of FillP

Start at: 2018-07-24 06:43:00
End at: 2018-07-24 06:43:30
Local clock offset: -13.761 ms
Remote clock offset: 4.277 ms

Below is generated by plot.py at 2018-07-24 10:32:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 95.26 Mbit/s
95th percentile per-packet one-way delay: 72.272 ms
Loss rate: 8.57%
-- Flow 1:
Average throughput: 95.26 Mbit/s
95th percentile per-packet one-way delay: 72.272 ms
Loss rate: 8.57%

Run 1: Report of FillP — Data Link

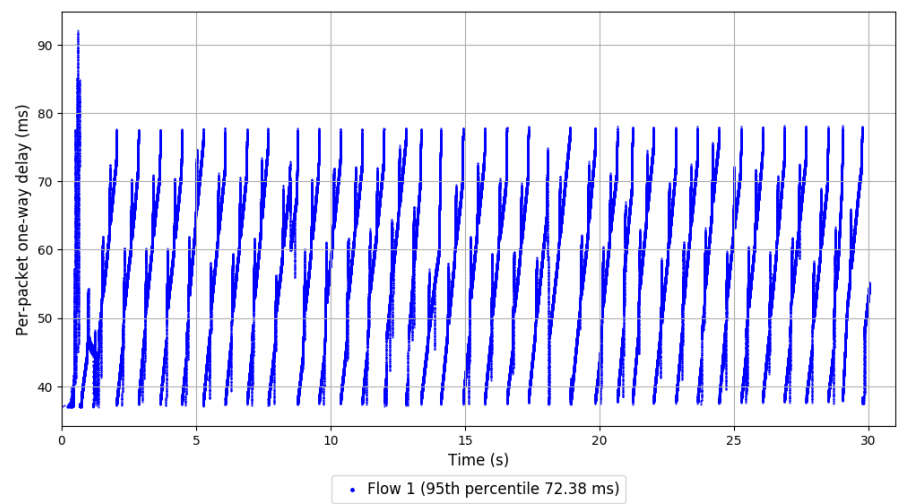
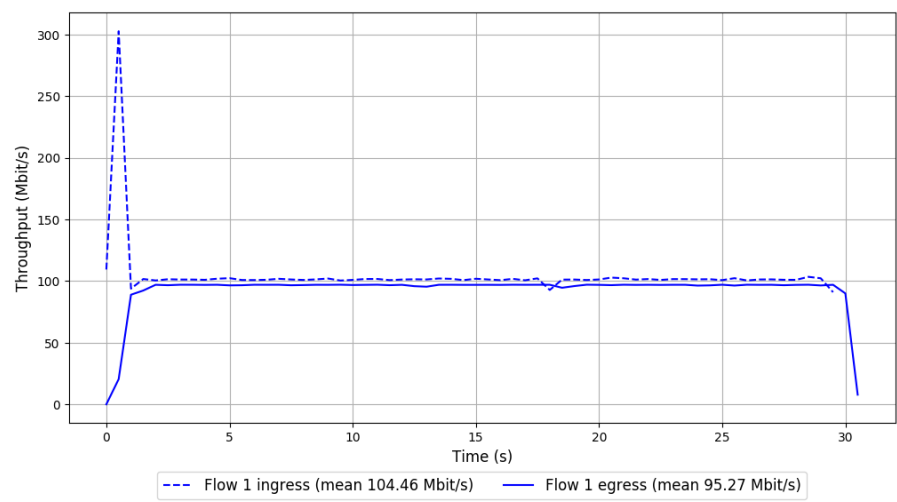


Run 2: Statistics of FillP

Start at: 2018-07-24 07:05:09
End at: 2018-07-24 07:05:39
Local clock offset: -12.279 ms
Remote clock offset: 4.336 ms

Below is generated by plot.py at 2018-07-24 10:32:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 95.27 Mbit/s
95th percentile per-packet one-way delay: 72.380 ms
Loss rate: 8.74%
-- Flow 1:
Average throughput: 95.27 Mbit/s
95th percentile per-packet one-way delay: 72.380 ms
Loss rate: 8.74%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-07-24 07:27:27

End at: 2018-07-24 07:27:57

Local clock offset: -7.403 ms

Remote clock offset: 4.575 ms

Below is generated by plot.py at 2018-07-24 10:33:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.32 Mbit/s

95th percentile per-packet one-way delay: 72.514 ms

Loss rate: 8.61%

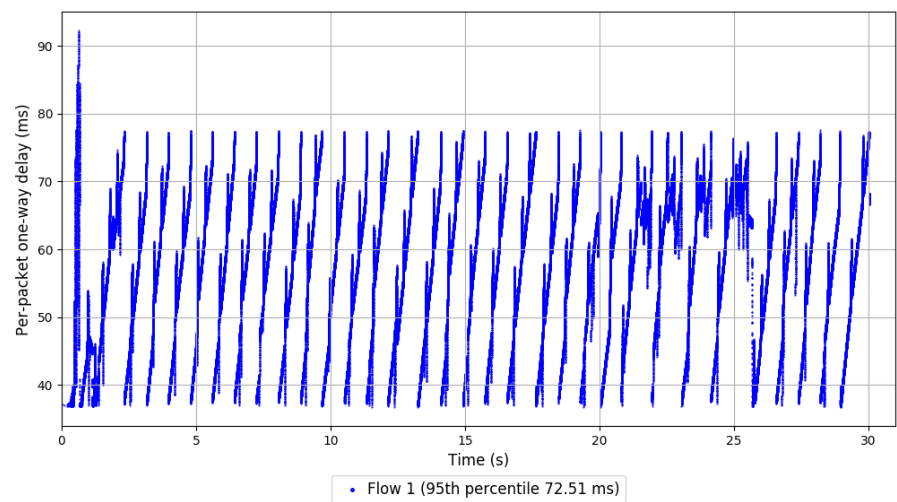
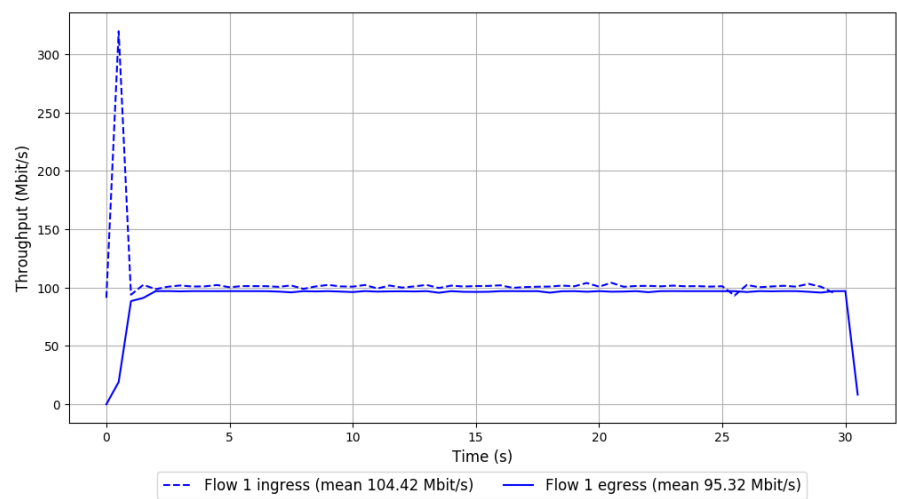
-- Flow 1:

Average throughput: 95.32 Mbit/s

95th percentile per-packet one-way delay: 72.514 ms

Loss rate: 8.61%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-07-24 07:49:43

End at: 2018-07-24 07:50:13

Local clock offset: -3.053 ms

Remote clock offset: 4.137 ms

Below is generated by plot.py at 2018-07-24 10:33:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.42 Mbit/s

95th percentile per-packet one-way delay: 72.454 ms

Loss rate: 8.45%

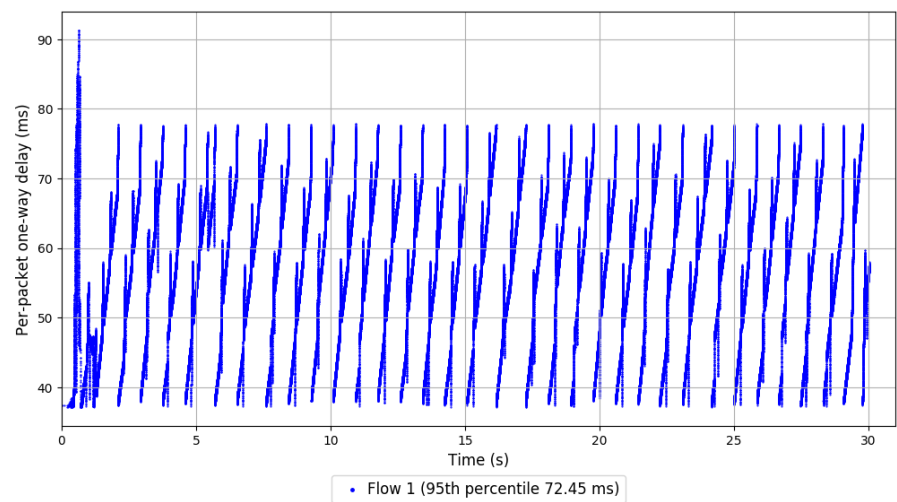
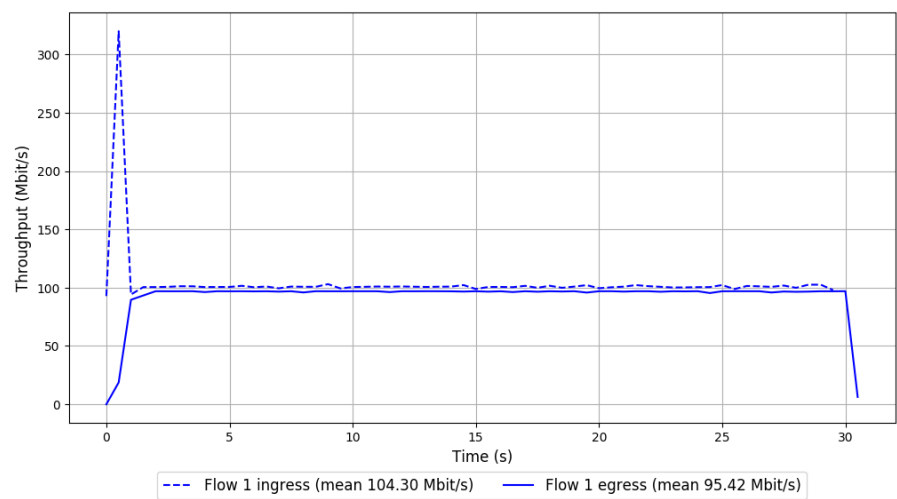
-- Flow 1:

Average throughput: 95.42 Mbit/s

95th percentile per-packet one-way delay: 72.454 ms

Loss rate: 8.45%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-07-24 08:12:02

End at: 2018-07-24 08:12:32

Local clock offset: -1.275 ms

Remote clock offset: 3.812 ms

Below is generated by plot.py at 2018-07-24 10:33:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.33 Mbit/s

95th percentile per-packet one-way delay: 71.970 ms

Loss rate: 8.52%

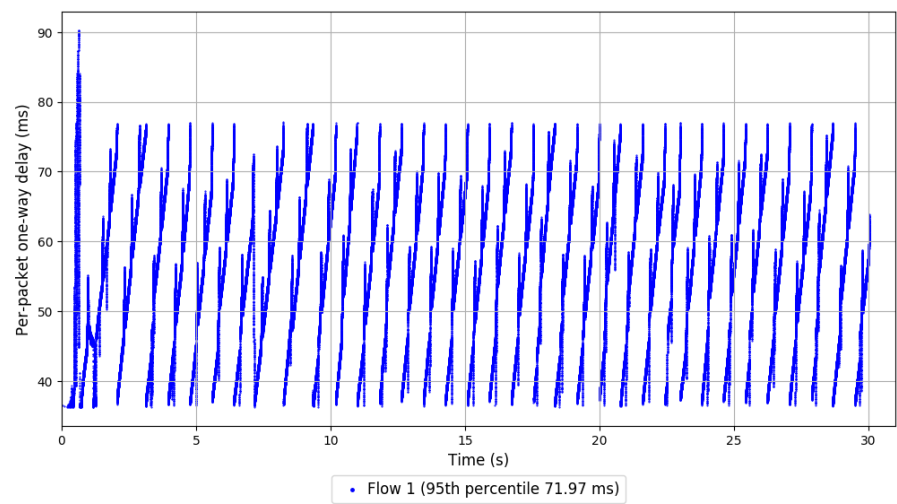
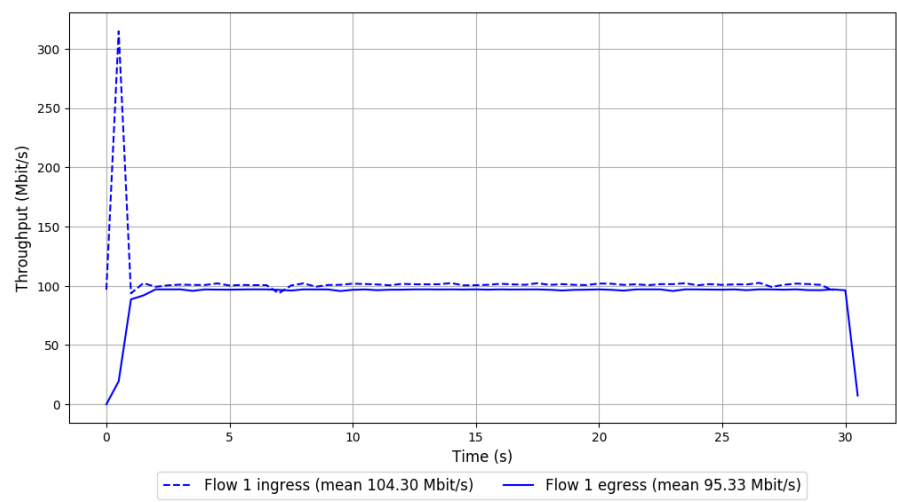
-- Flow 1:

Average throughput: 95.33 Mbit/s

95th percentile per-packet one-way delay: 71.970 ms

Loss rate: 8.52%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-07-24 08:34:21

End at: 2018-07-24 08:34:51

Local clock offset: -1.162 ms

Remote clock offset: 3.901 ms

Below is generated by plot.py at 2018-07-24 10:33:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.28 Mbit/s

95th percentile per-packet one-way delay: 72.407 ms

Loss rate: 8.64%

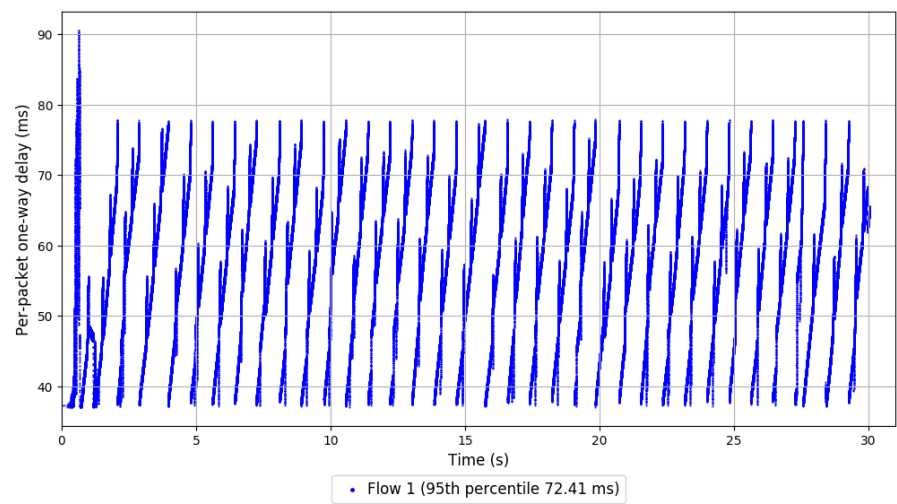
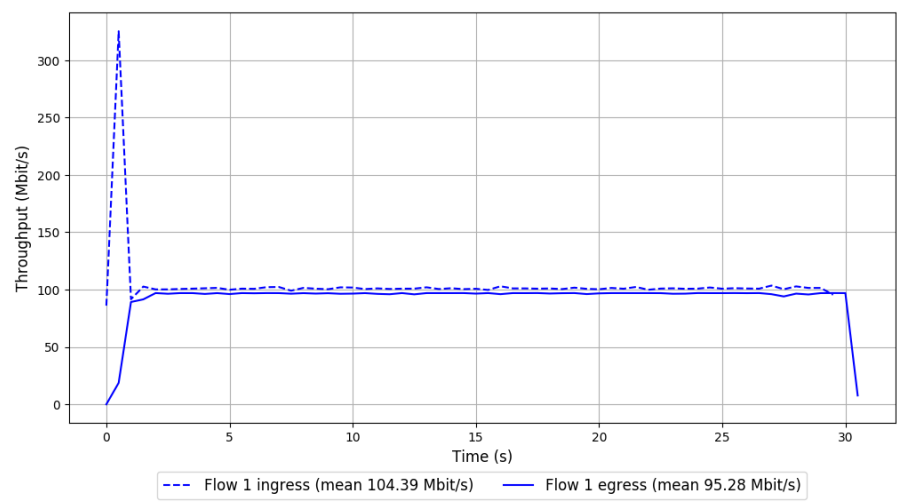
-- Flow 1:

Average throughput: 95.28 Mbit/s

95th percentile per-packet one-way delay: 72.407 ms

Loss rate: 8.64%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-07-24 08:56:38

End at: 2018-07-24 08:57:08

Local clock offset: -1.028 ms

Remote clock offset: 4.776 ms

Below is generated by plot.py at 2018-07-24 10:33:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.33 Mbit/s

95th percentile per-packet one-way delay: 72.476 ms

Loss rate: 8.55%

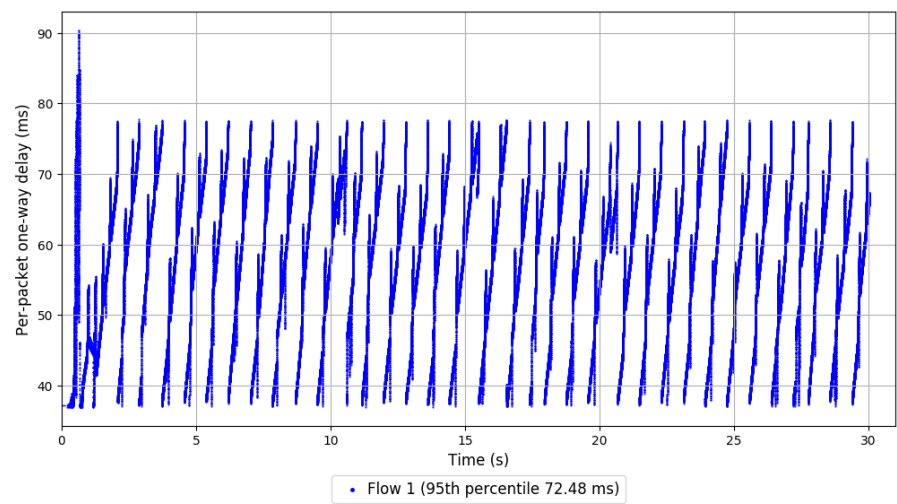
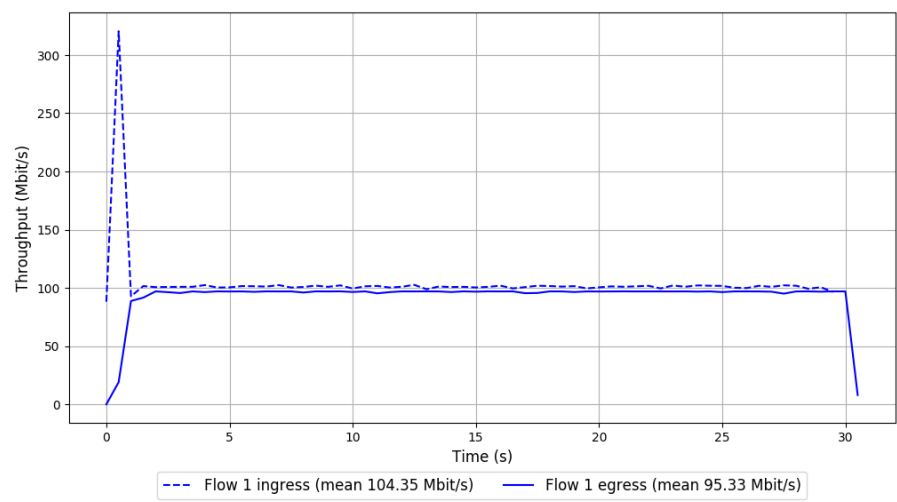
-- Flow 1:

Average throughput: 95.33 Mbit/s

95th percentile per-packet one-way delay: 72.476 ms

Loss rate: 8.55%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-07-24 09:18:55

End at: 2018-07-24 09:19:25

Local clock offset: -0.313 ms

Remote clock offset: 5.415 ms

Below is generated by plot.py at 2018-07-24 10:33:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.45 Mbit/s

95th percentile per-packet one-way delay: 71.639 ms

Loss rate: 8.45%

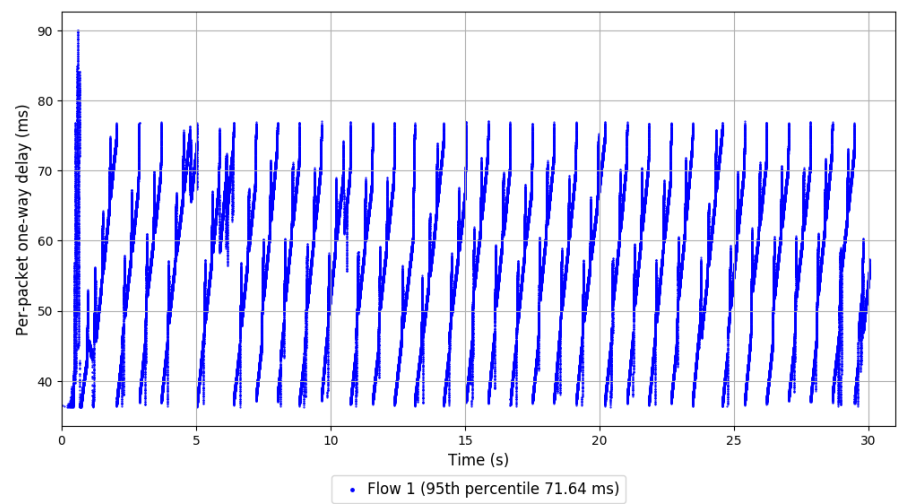
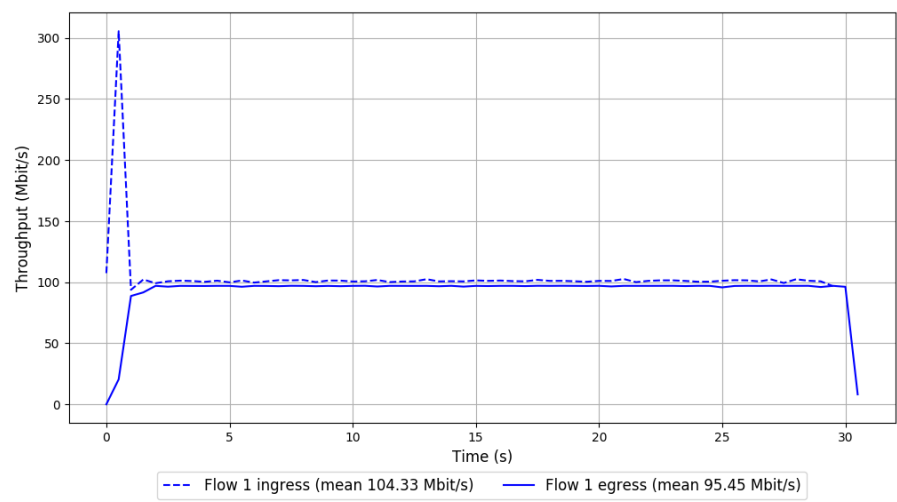
-- Flow 1:

Average throughput: 95.45 Mbit/s

95th percentile per-packet one-way delay: 71.639 ms

Loss rate: 8.45%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-07-24 09:41:07

End at: 2018-07-24 09:41:37

Local clock offset: 0.736 ms

Remote clock offset: 4.298 ms

Below is generated by plot.py at 2018-07-24 10:34:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.75 Mbit/s

95th percentile per-packet one-way delay: 73.208 ms

Loss rate: 8.99%

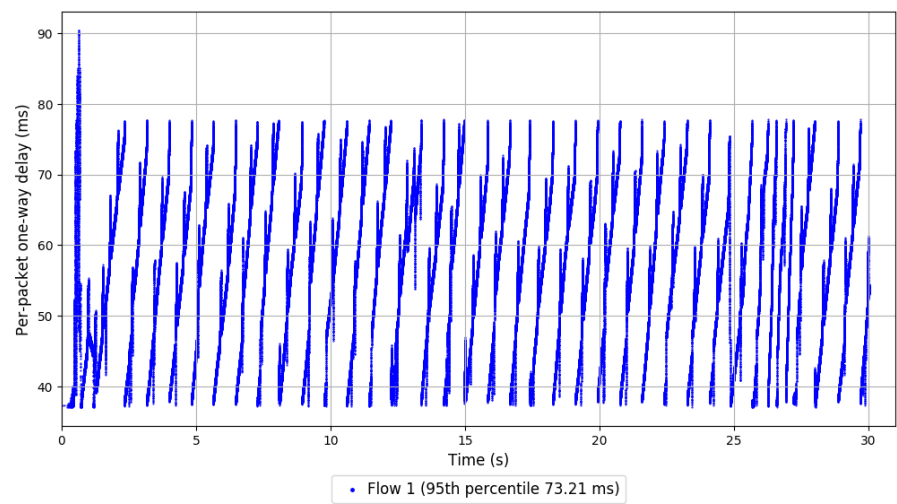
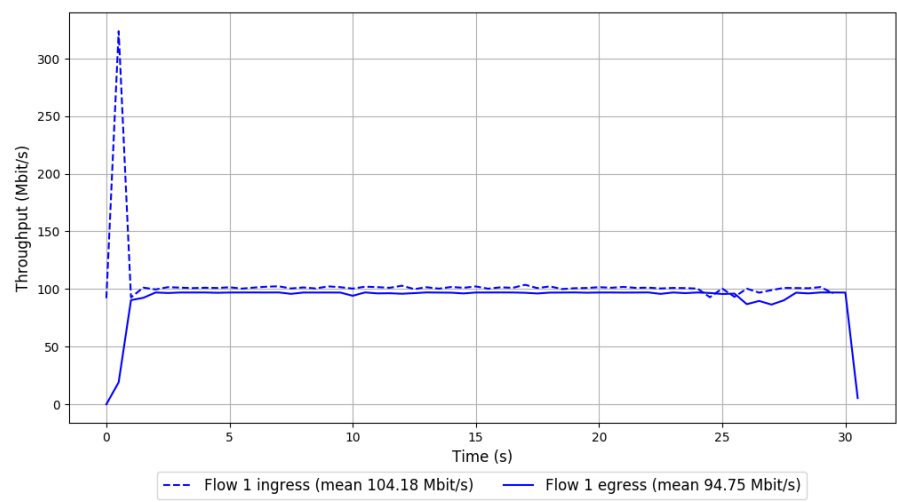
-- Flow 1:

Average throughput: 94.75 Mbit/s

95th percentile per-packet one-way delay: 73.208 ms

Loss rate: 8.99%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-07-24 10:03:22

End at: 2018-07-24 10:03:52

Local clock offset: 1.262 ms

Remote clock offset: 4.889 ms

Below is generated by plot.py at 2018-07-24 10:34:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.16 Mbit/s

95th percentile per-packet one-way delay: 73.449 ms

Loss rate: 8.85%

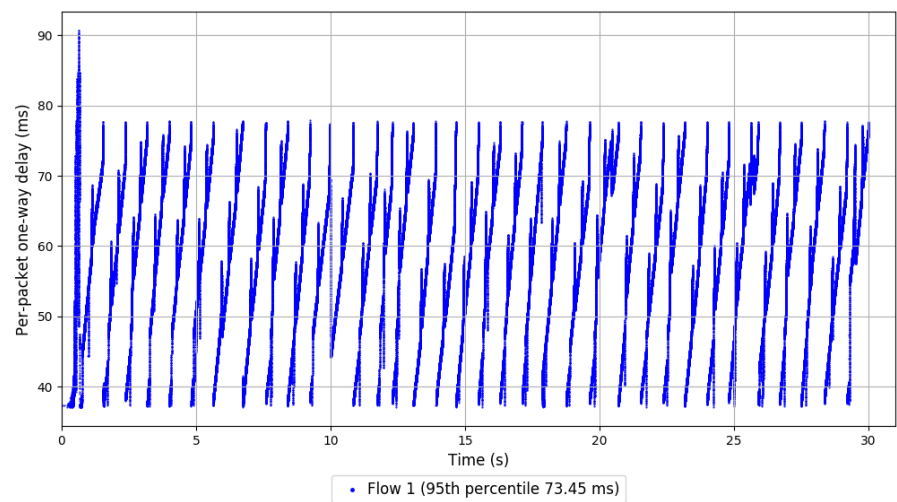
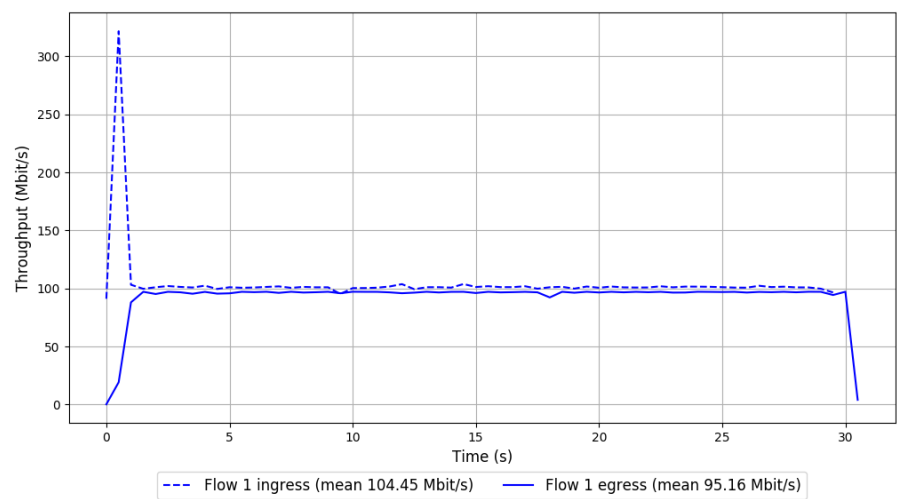
-- Flow 1:

Average throughput: 95.16 Mbit/s

95th percentile per-packet one-way delay: 73.449 ms

Loss rate: 8.85%

Run 10: Report of FillP — Data Link

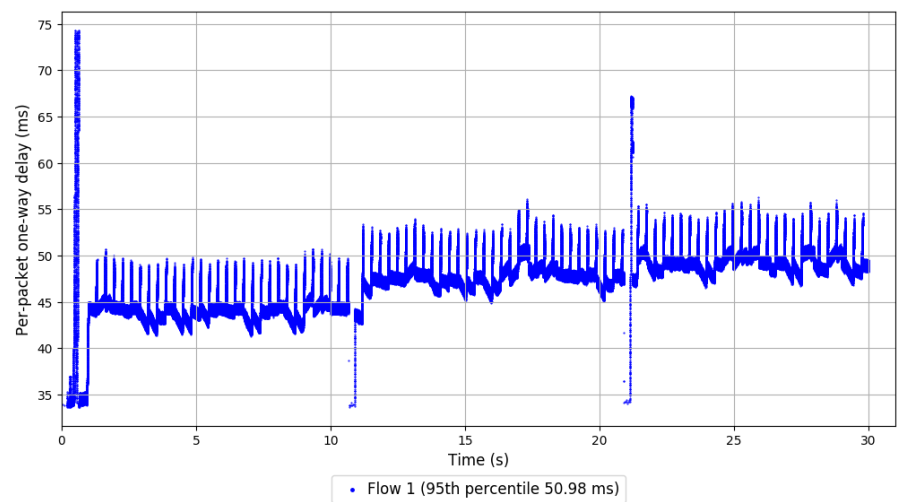
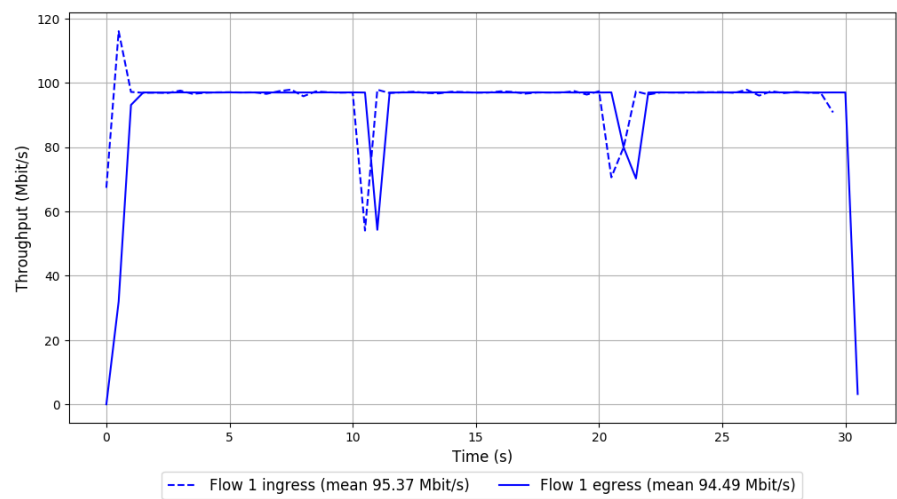


Run 1: Statistics of FillP-Sheep

Start at: 2018-07-24 07:01:14
End at: 2018-07-24 07:01:44
Local clock offset: -16.537 ms
Remote clock offset: 2.039 ms

Below is generated by plot.py at 2018-07-24 10:34:45
Datalink statistics
-- Total of 1 flow:
Average throughput: 94.49 Mbit/s
95th percentile per-packet one-way delay: 50.978 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 94.49 Mbit/s
95th percentile per-packet one-way delay: 50.978 ms
Loss rate: 0.87%

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

Start at: 2018-07-24 07:23:32

End at: 2018-07-24 07:24:02

Local clock offset: -6.847 ms

Remote clock offset: 4.609 ms

Below is generated by plot.py at 2018-07-24 10:34:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.37 Mbit/s

95th percentile per-packet one-way delay: 54.847 ms

Loss rate: 0.99%

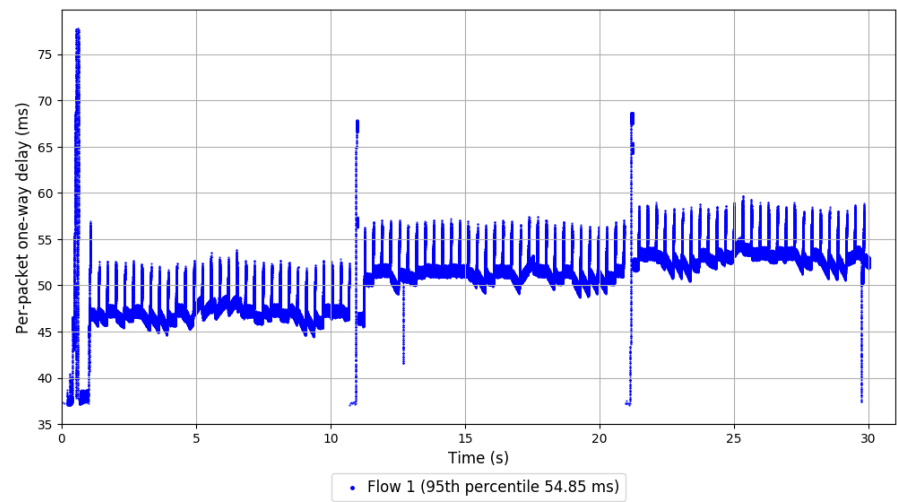
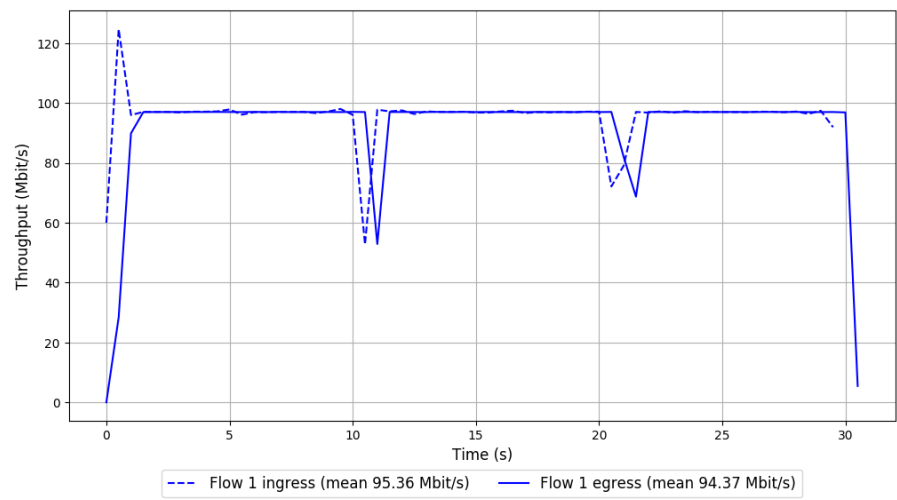
-- Flow 1:

Average throughput: 94.37 Mbit/s

95th percentile per-packet one-way delay: 54.847 ms

Loss rate: 0.99%

Run 2: Report of FillP-Sheep — Data Link



Run 3: Statistics of FillP-Sheep

Start at: 2018-07-24 07:45:47

End at: 2018-07-24 07:46:17

Local clock offset: -3.028 ms

Remote clock offset: 4.276 ms

Below is generated by plot.py at 2018-07-24 10:34:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.55 Mbit/s

95th percentile per-packet one-way delay: 55.317 ms

Loss rate: 0.80%

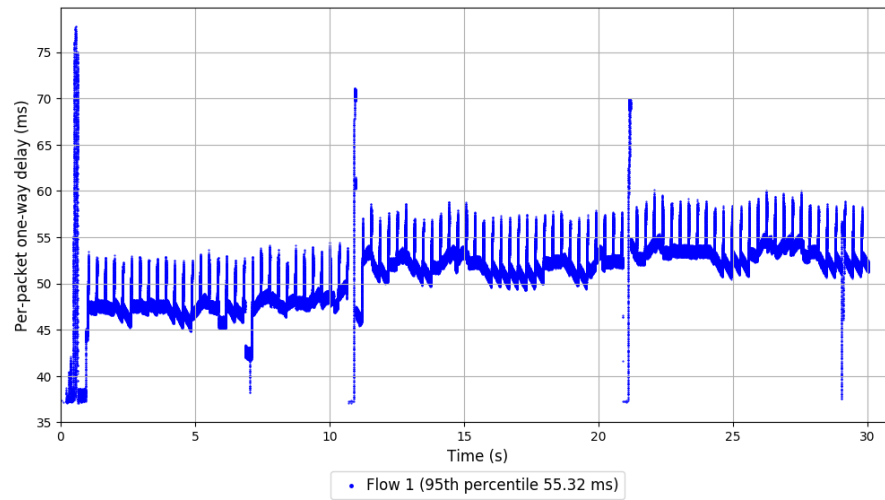
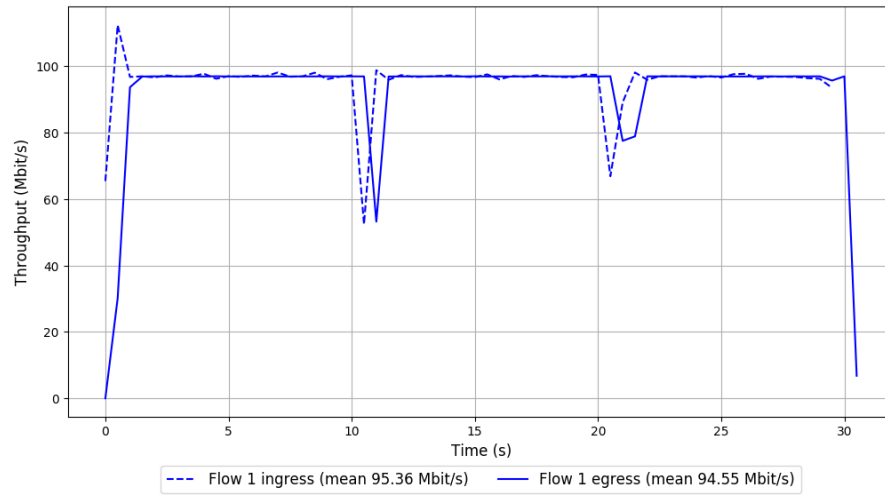
-- Flow 1:

Average throughput: 94.55 Mbit/s

95th percentile per-packet one-way delay: 55.317 ms

Loss rate: 0.80%

Run 3: Report of FillP-Sheep — Data Link



Run 4: Statistics of FillP-Sheep

Start at: 2018-07-24 08:08:07

End at: 2018-07-24 08:08:37

Local clock offset: -1.877 ms

Remote clock offset: 3.874 ms

Below is generated by plot.py at 2018-07-24 10:34:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.42 Mbit/s

95th percentile per-packet one-way delay: 54.681 ms

Loss rate: 0.79%

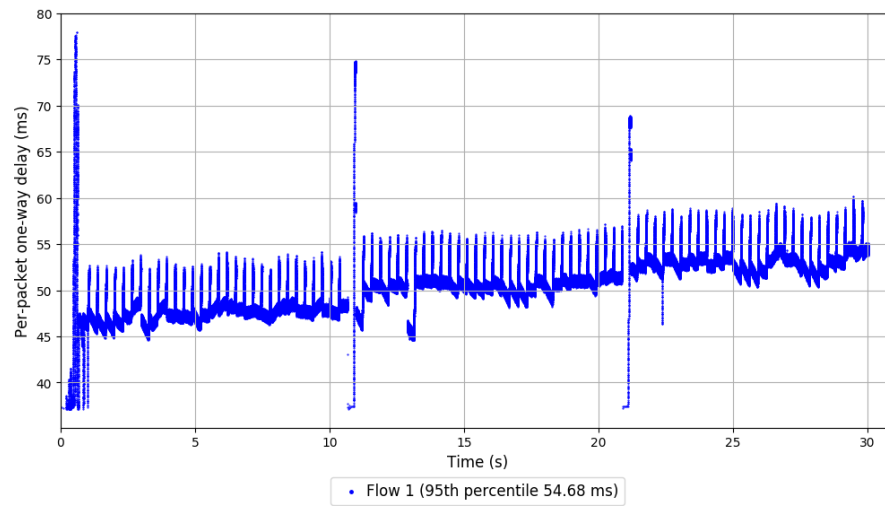
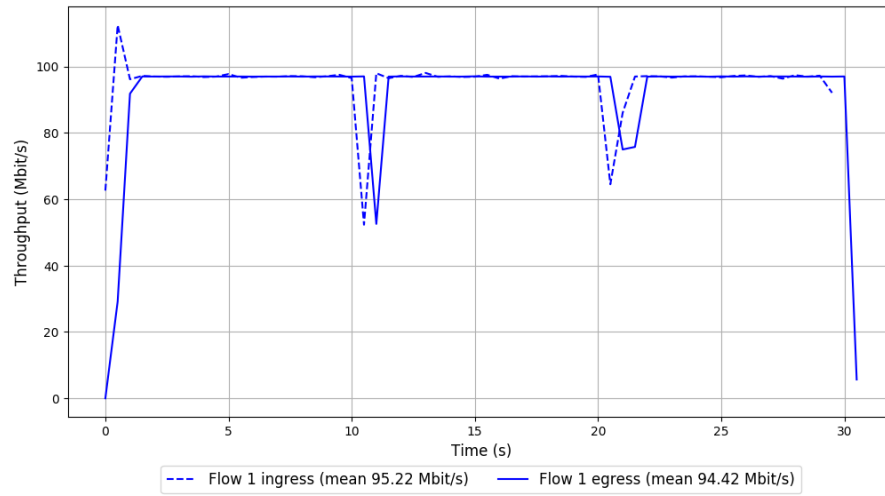
-- Flow 1:

Average throughput: 94.42 Mbit/s

95th percentile per-packet one-way delay: 54.681 ms

Loss rate: 0.79%

Run 4: Report of FillP-Sheep — Data Link



Run 5: Statistics of FillP-Sheep

Start at: 2018-07-24 08:30:25

End at: 2018-07-24 08:30:55

Local clock offset: -1.532 ms

Remote clock offset: 3.89 ms

Below is generated by plot.py at 2018-07-24 10:34:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.37 Mbit/s

95th percentile per-packet one-way delay: 53.421 ms

Loss rate: 1.16%

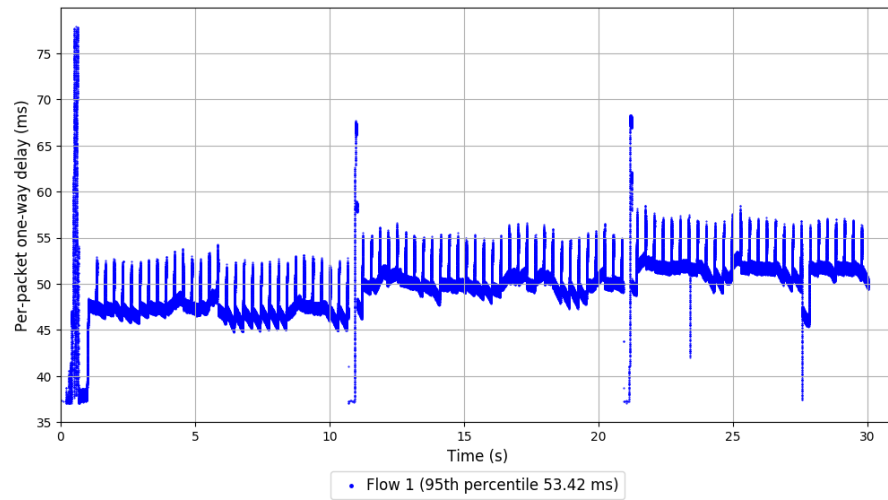
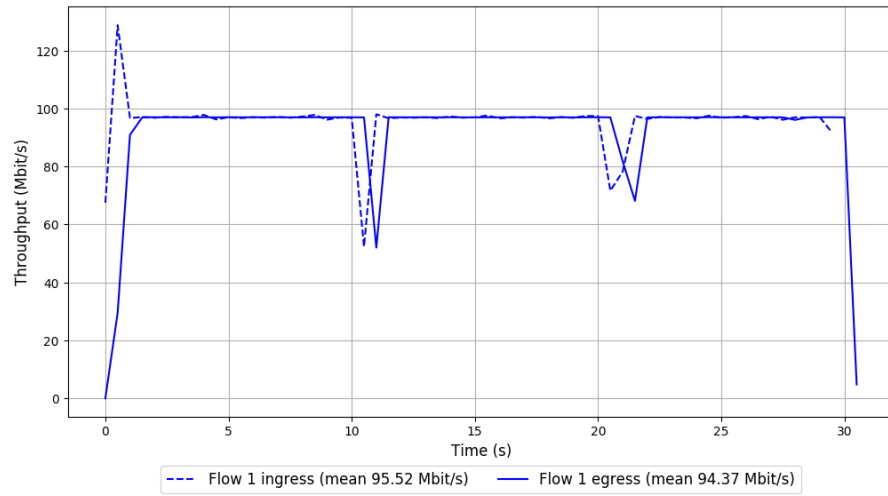
-- Flow 1:

Average throughput: 94.37 Mbit/s

95th percentile per-packet one-way delay: 53.421 ms

Loss rate: 1.16%

Run 5: Report of FillP-Sheep — Data Link



Run 6: Statistics of FillP-Sheep

Start at: 2018-07-24 08:52:43

End at: 2018-07-24 08:53:13

Local clock offset: -0.959 ms

Remote clock offset: 2.171 ms

Below is generated by plot.py at 2018-07-24 10:34:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.50 Mbit/s

95th percentile per-packet one-way delay: 52.236 ms

Loss rate: 0.79%

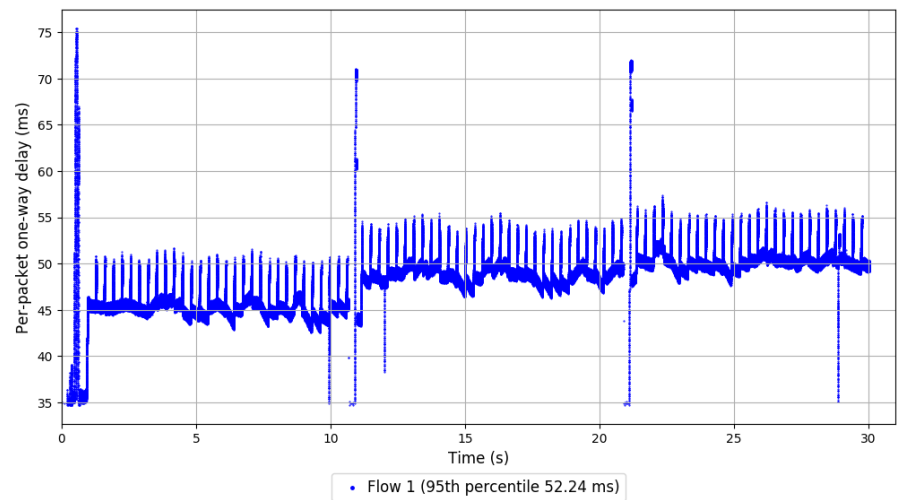
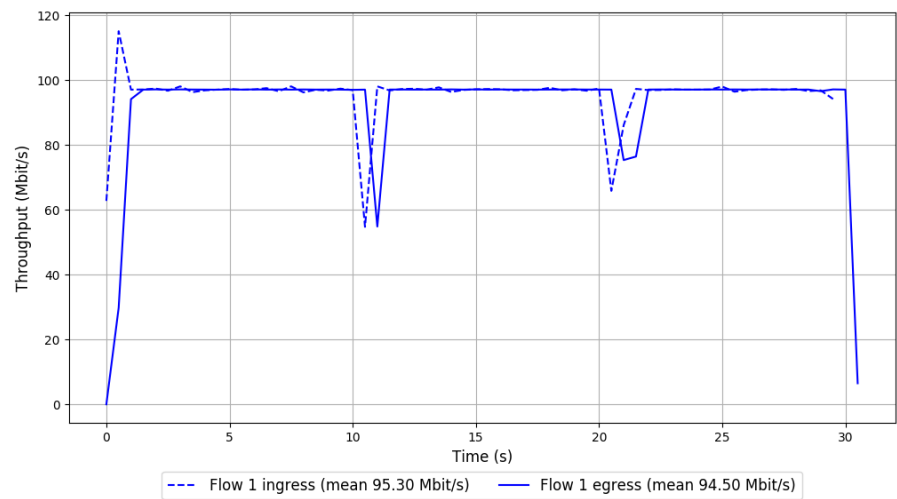
-- Flow 1:

Average throughput: 94.50 Mbit/s

95th percentile per-packet one-way delay: 52.236 ms

Loss rate: 0.79%

Run 6: Report of FillP-Sheep — Data Link



Run 7: Statistics of FillP-Sheep

Start at: 2018-07-24 09:15:00

End at: 2018-07-24 09:15:30

Local clock offset: -0.355 ms

Remote clock offset: 2.992 ms

Below is generated by plot.py at 2018-07-24 10:35:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.47 Mbit/s

95th percentile per-packet one-way delay: 52.426 ms

Loss rate: 0.91%

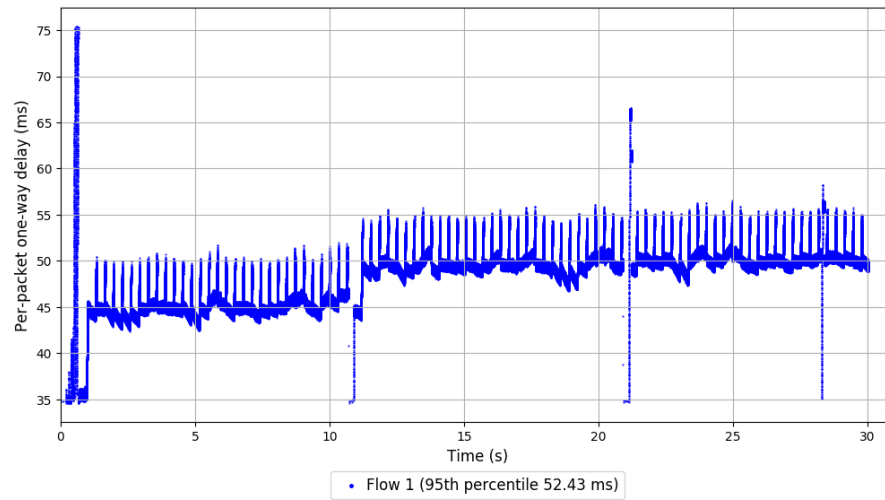
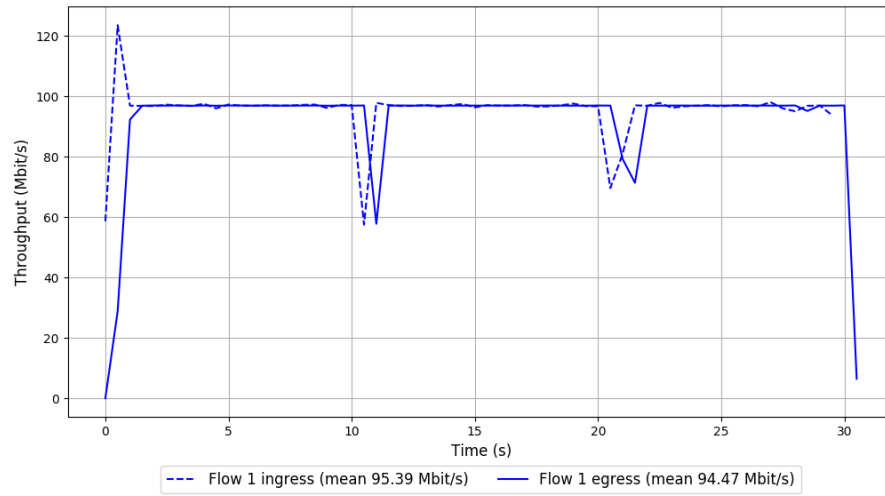
-- Flow 1:

Average throughput: 94.47 Mbit/s

95th percentile per-packet one-way delay: 52.426 ms

Loss rate: 0.91%

Run 7: Report of FillP-Sheep — Data Link



Run 8: Statistics of FillP-Sheep

Start at: 2018-07-24 09:37:12

End at: 2018-07-24 09:37:42

Local clock offset: 0.34 ms

Remote clock offset: 4.395 ms

Below is generated by plot.py at 2018-07-24 10:35:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.33 Mbit/s

95th percentile per-packet one-way delay: 53.604 ms

Loss rate: 1.09%

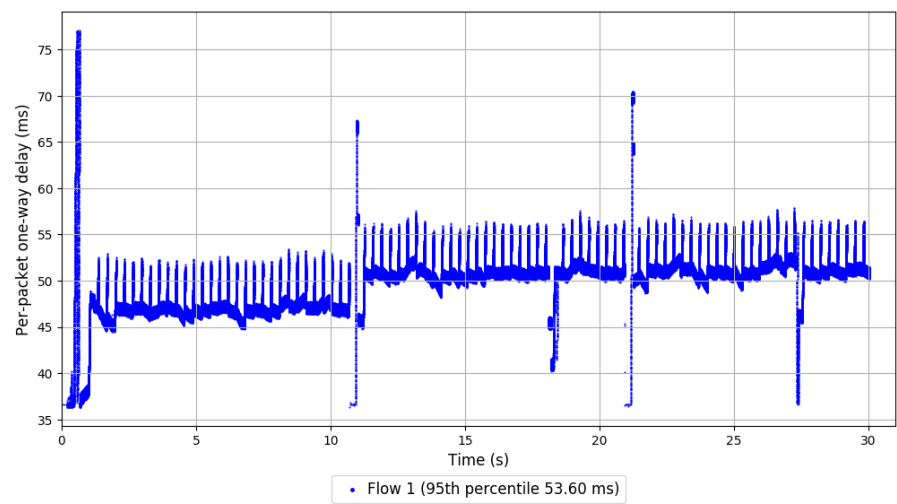
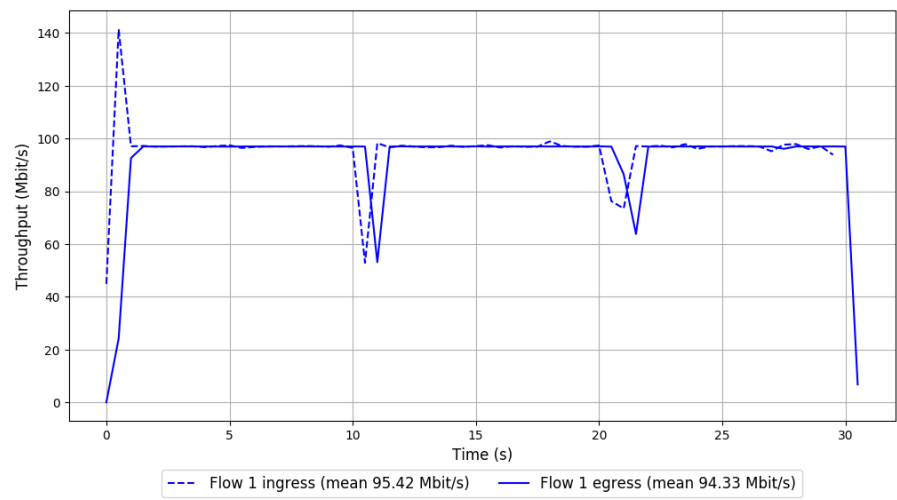
-- Flow 1:

Average throughput: 94.33 Mbit/s

95th percentile per-packet one-way delay: 53.604 ms

Loss rate: 1.09%

Run 8: Report of FillP-Sheep — Data Link



Run 9: Statistics of FillP-Sheep

Start at: 2018-07-24 09:59:27

End at: 2018-07-24 09:59:57

Local clock offset: 1.179 ms

Remote clock offset: 2.346 ms

Below is generated by plot.py at 2018-07-24 10:36:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.43 Mbit/s

95th percentile per-packet one-way delay: 52.434 ms

Loss rate: 0.89%

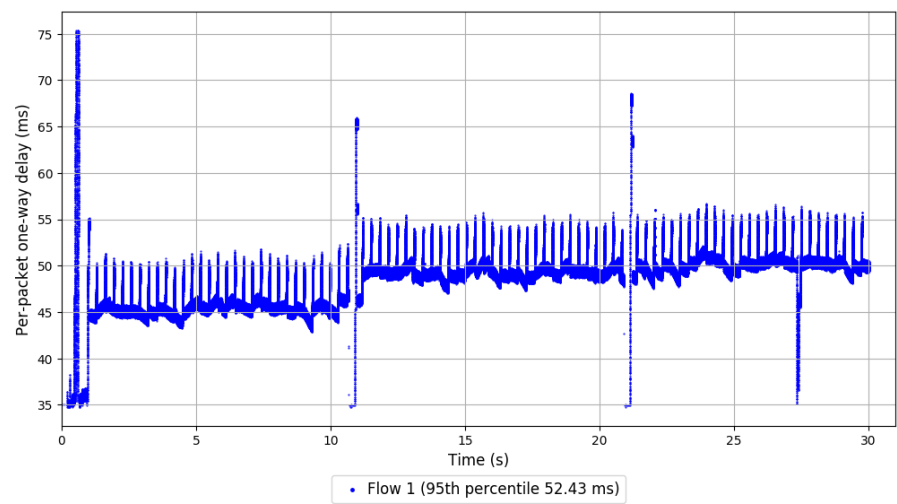
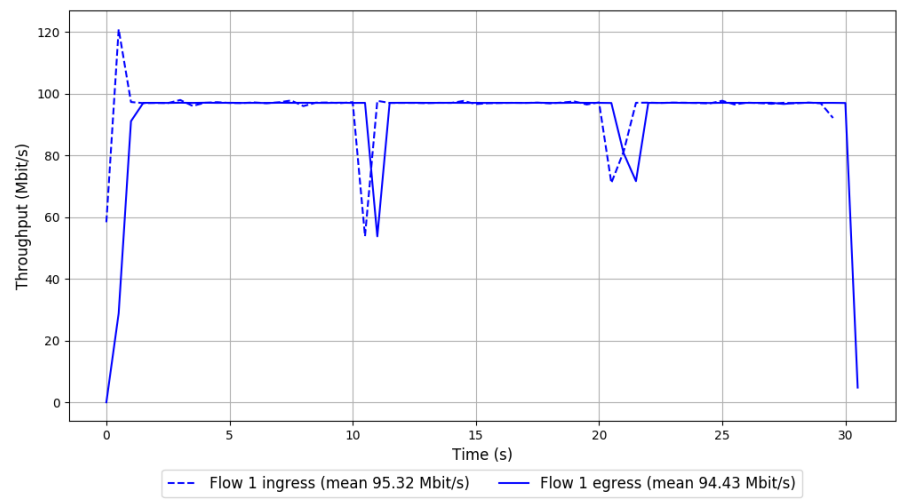
-- Flow 1:

Average throughput: 94.43 Mbit/s

95th percentile per-packet one-way delay: 52.434 ms

Loss rate: 0.89%

Run 9: Report of FillP-Sheep — Data Link



Run 10: Statistics of FillP-Sheep

Start at: 2018-07-24 10:21:43

End at: 2018-07-24 10:22:13

Local clock offset: 1.677 ms

Remote clock offset: 3.152 ms

Below is generated by plot.py at 2018-07-24 10:36:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.51 Mbit/s

95th percentile per-packet one-way delay: 51.893 ms

Loss rate: 1.30%

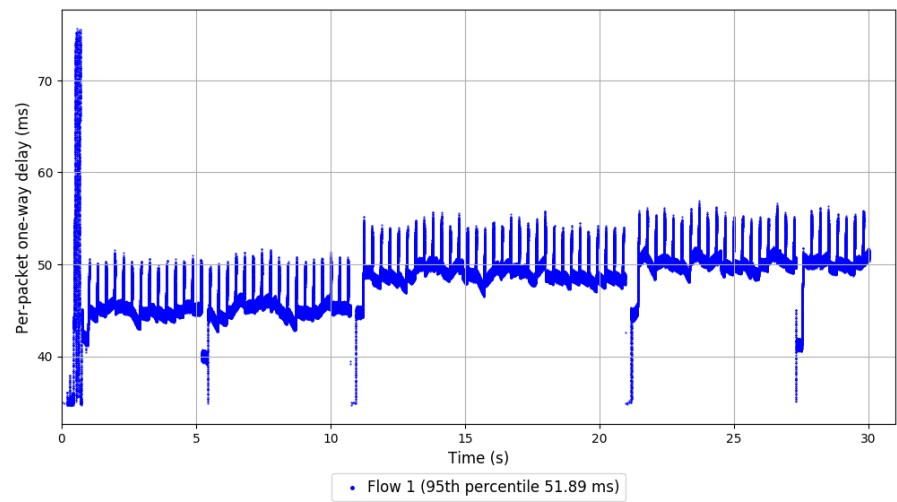
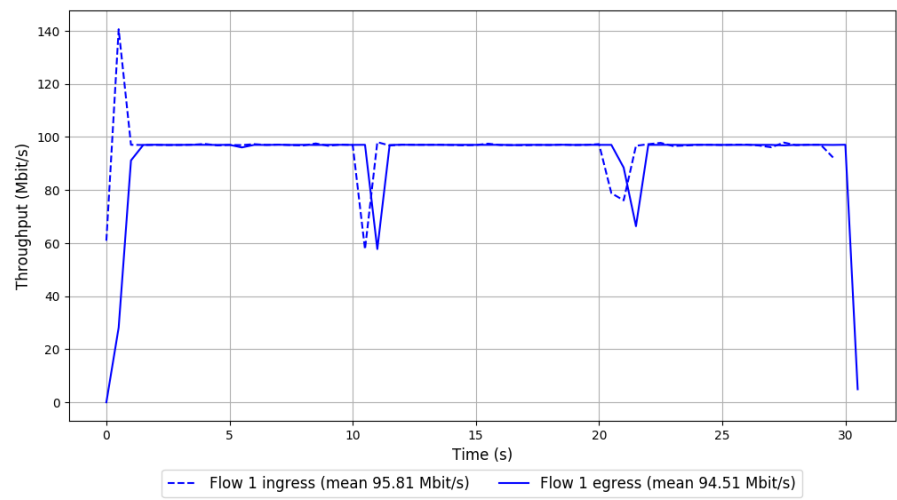
-- Flow 1:

Average throughput: 94.51 Mbit/s

95th percentile per-packet one-way delay: 51.893 ms

Loss rate: 1.30%

Run 10: Report of FillP-Sheep — Data Link

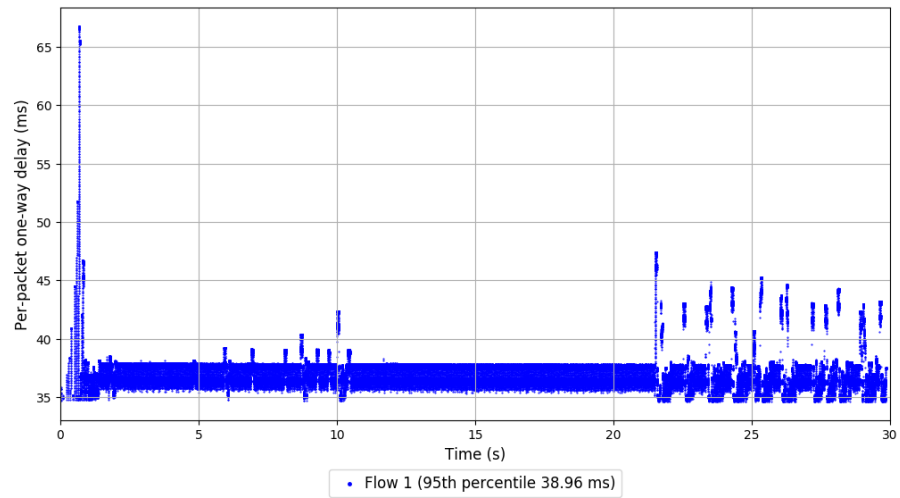
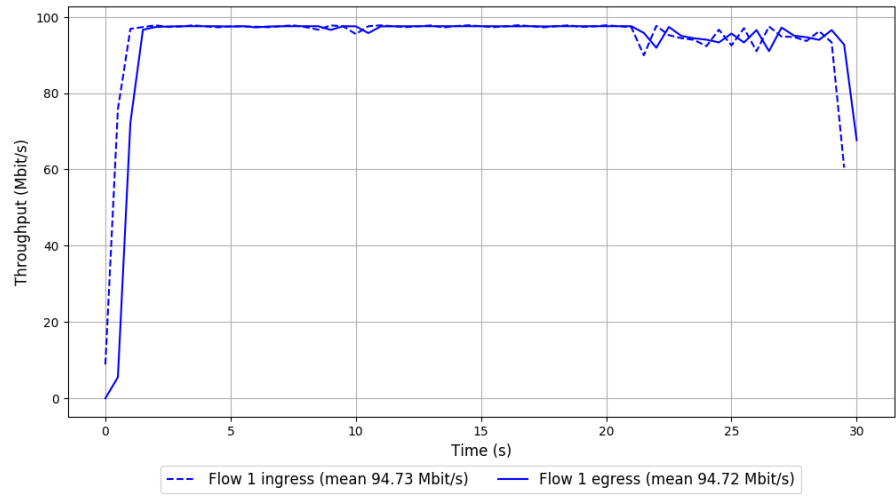


```
Run 1: Statistics of Indigo

Start at: 2018-07-24 06:53:26
End at: 2018-07-24 06:53:56
Local clock offset: -13.658 ms
Remote clock offset: 2.011 ms

# Below is generated by plot.py at 2018-07-24 10:36:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.72 Mbit/s
95th percentile per-packet one-way delay: 38.964 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 94.72 Mbit/s
95th percentile per-packet one-way delay: 38.964 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2018-07-24 07:15:44

End at: 2018-07-24 07:16:14

Local clock offset: -6.636 ms

Remote clock offset: 4.511 ms

Below is generated by plot.py at 2018-07-24 10:36:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.65 Mbit/s

95th percentile per-packet one-way delay: 41.775 ms

Loss rate: 0.01%

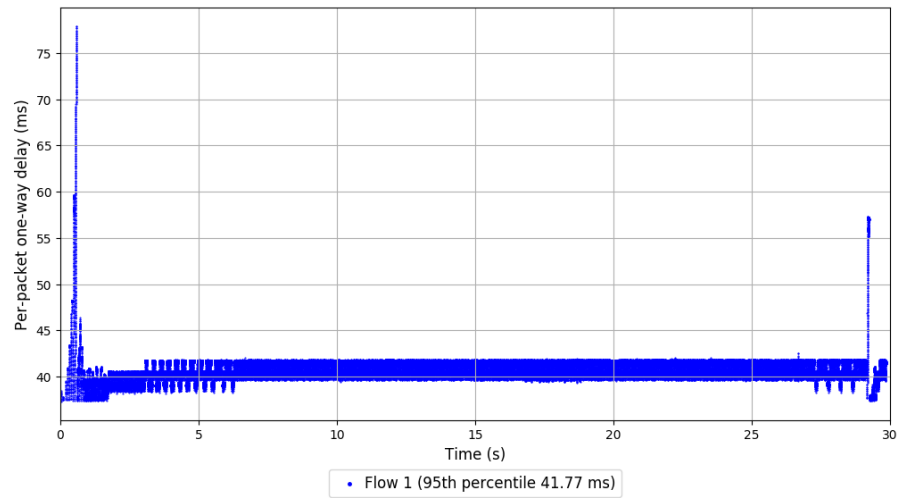
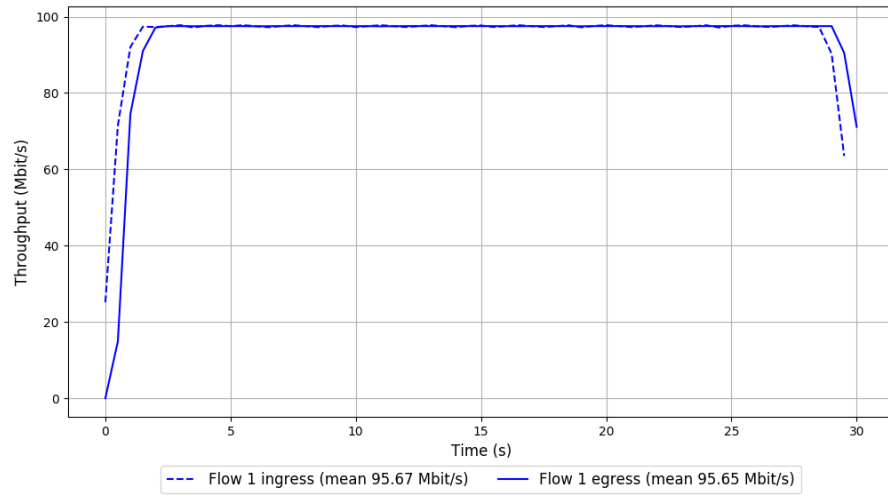
-- Flow 1:

Average throughput: 95.65 Mbit/s

95th percentile per-packet one-way delay: 41.775 ms

Loss rate: 0.01%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-07-24 07:37:59

End at: 2018-07-24 07:38:29

Local clock offset: -4.589 ms

Remote clock offset: 3.952 ms

Below is generated by plot.py at 2018-07-24 10:36:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.78 Mbit/s

95th percentile per-packet one-way delay: 40.036 ms

Loss rate: 0.00%

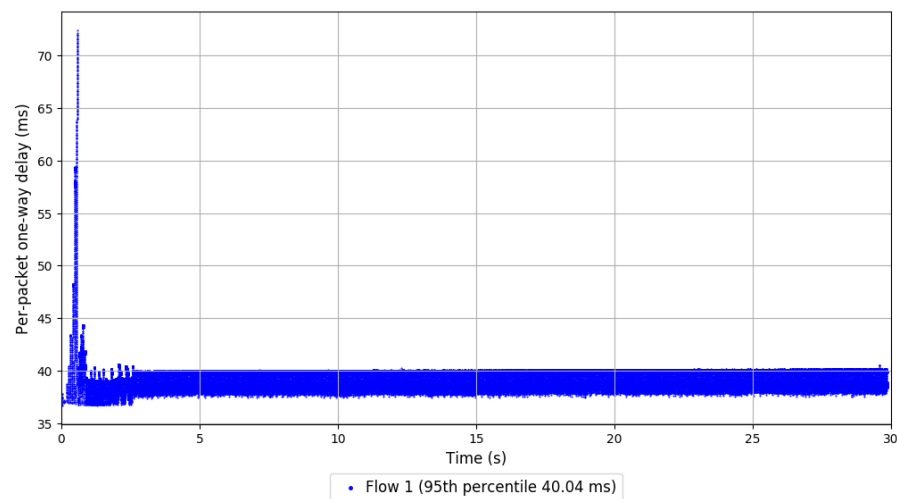
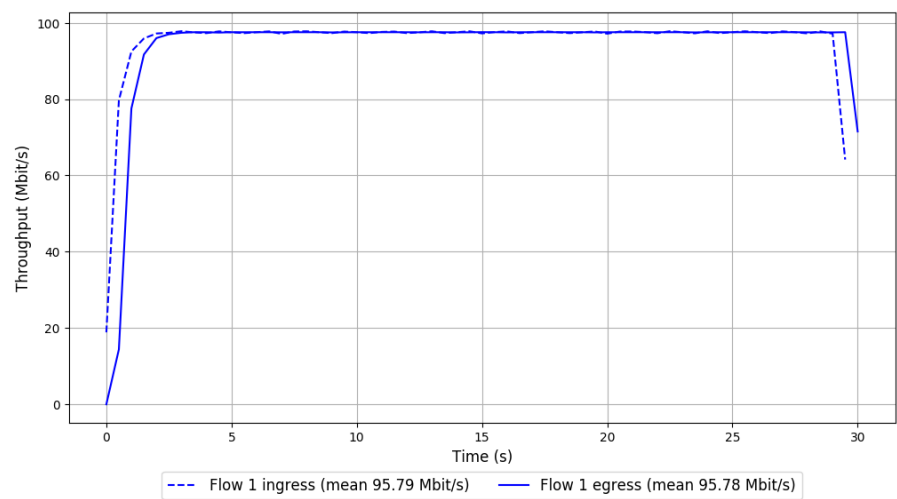
-- Flow 1:

Average throughput: 95.78 Mbit/s

95th percentile per-packet one-way delay: 40.036 ms

Loss rate: 0.00%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-07-24 08:00:16

End at: 2018-07-24 08:00:46

Local clock offset: -3.913 ms

Remote clock offset: 3.973 ms

Below is generated by plot.py at 2018-07-24 10:36:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.78 Mbit/s

95th percentile per-packet one-way delay: 41.034 ms

Loss rate: 0.00%

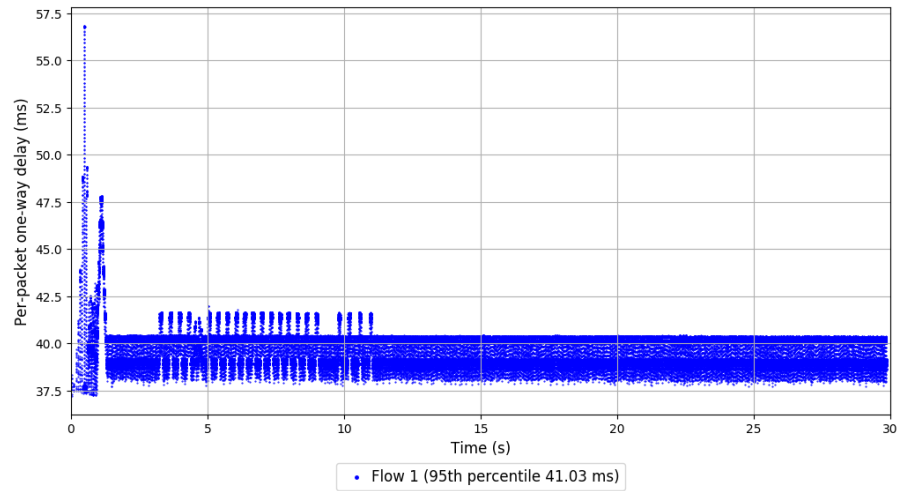
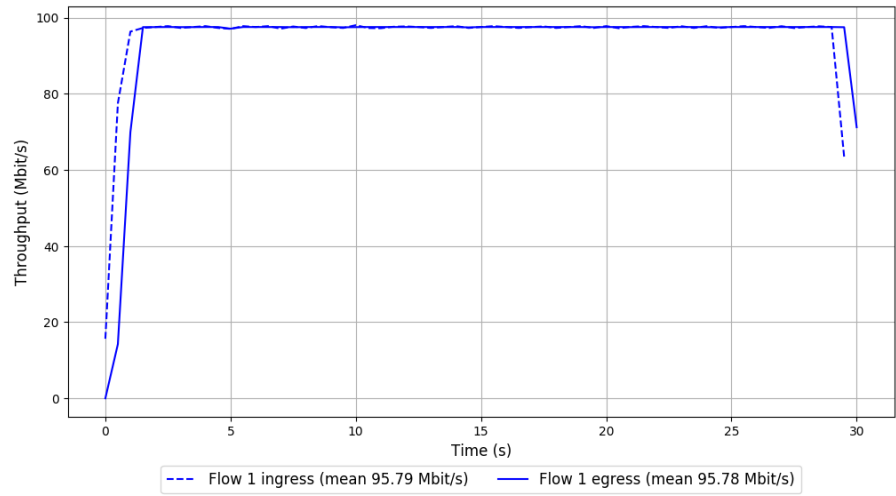
-- Flow 1:

Average throughput: 95.78 Mbit/s

95th percentile per-packet one-way delay: 41.034 ms

Loss rate: 0.00%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-07-24 08:22:35

End at: 2018-07-24 08:23:05

Local clock offset: -1.021 ms

Remote clock offset: 3.952 ms

Below is generated by plot.py at 2018-07-24 10:36:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.28 Mbit/s

95th percentile per-packet one-way delay: 40.359 ms

Loss rate: 0.02%

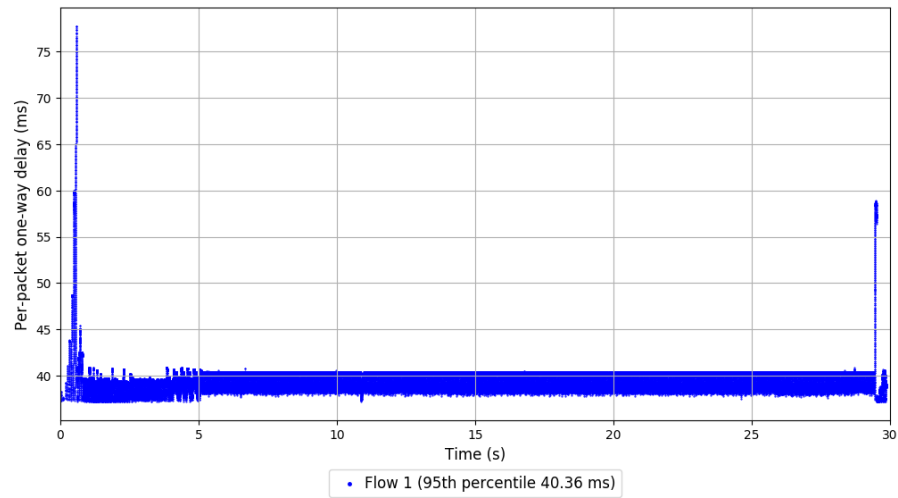
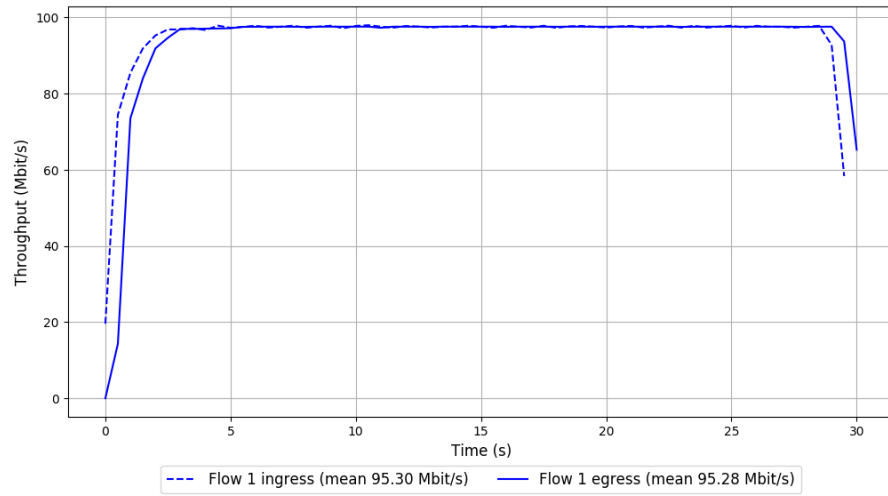
-- Flow 1:

Average throughput: 95.28 Mbit/s

95th percentile per-packet one-way delay: 40.359 ms

Loss rate: 0.02%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2018-07-24 08:44:55

End at: 2018-07-24 08:45:25

Local clock offset: -0.684 ms

Remote clock offset: 1.472 ms

Below is generated by plot.py at 2018-07-24 10:37:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.22 Mbit/s

95th percentile per-packet one-way delay: 38.030 ms

Loss rate: 0.02%

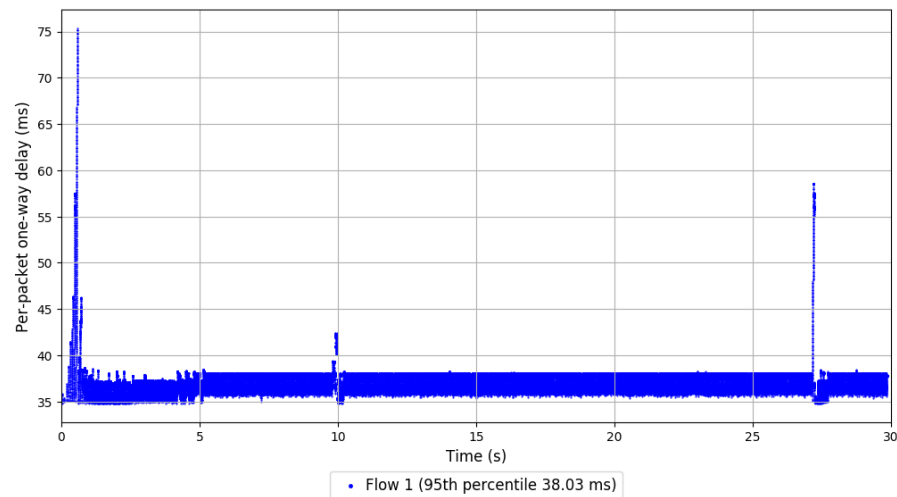
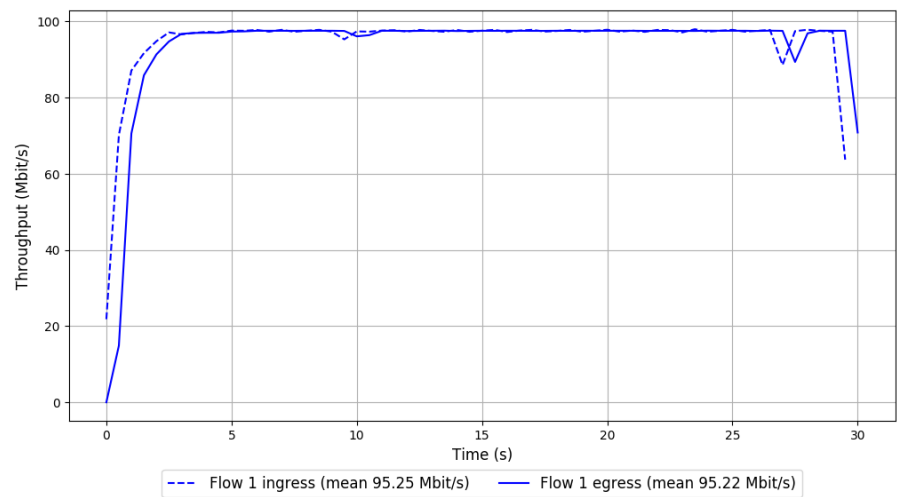
-- Flow 1:

Average throughput: 95.22 Mbit/s

95th percentile per-packet one-way delay: 38.030 ms

Loss rate: 0.02%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2018-07-24 09:07:11

End at: 2018-07-24 09:07:41

Local clock offset: -0.655 ms

Remote clock offset: 5.135 ms

Below is generated by plot.py at 2018-07-24 10:37:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.01 Mbit/s

95th percentile per-packet one-way delay: 40.356 ms

Loss rate: 0.04%

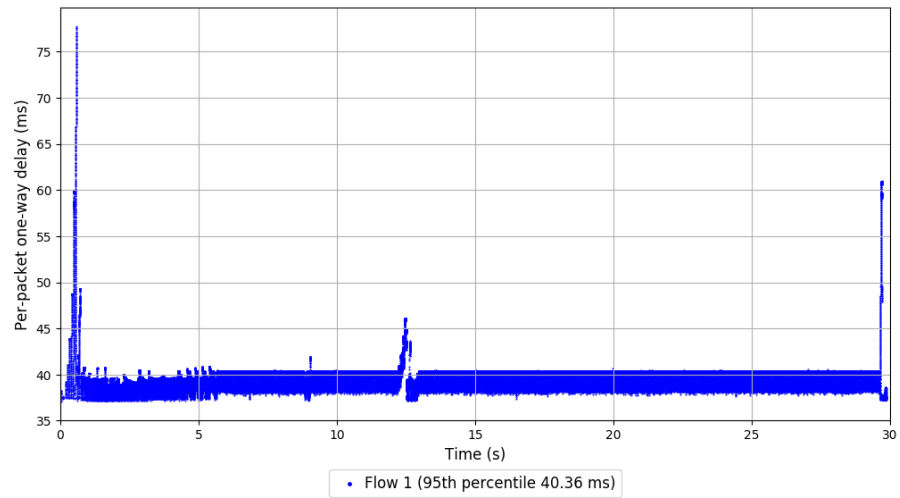
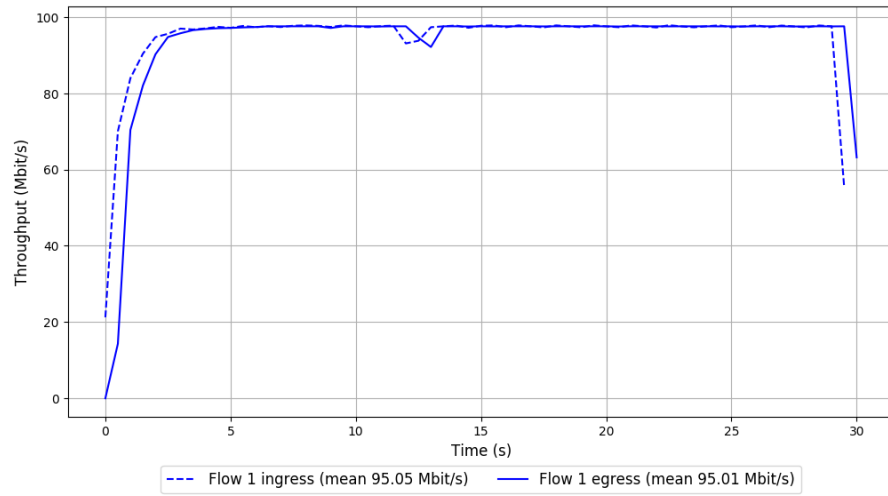
-- Flow 1:

Average throughput: 95.01 Mbit/s

95th percentile per-packet one-way delay: 40.356 ms

Loss rate: 0.04%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2018-07-24 09:29:25

End at: 2018-07-24 09:29:55

Local clock offset: -0.459 ms

Remote clock offset: 4.61 ms

Below is generated by plot.py at 2018-07-24 10:37:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.34 Mbit/s

95th percentile per-packet one-way delay: 40.354 ms

Loss rate: 0.01%

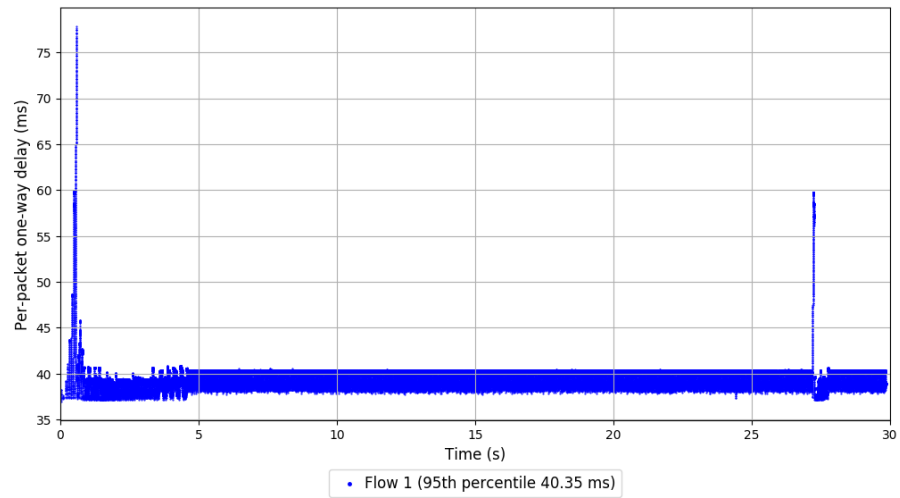
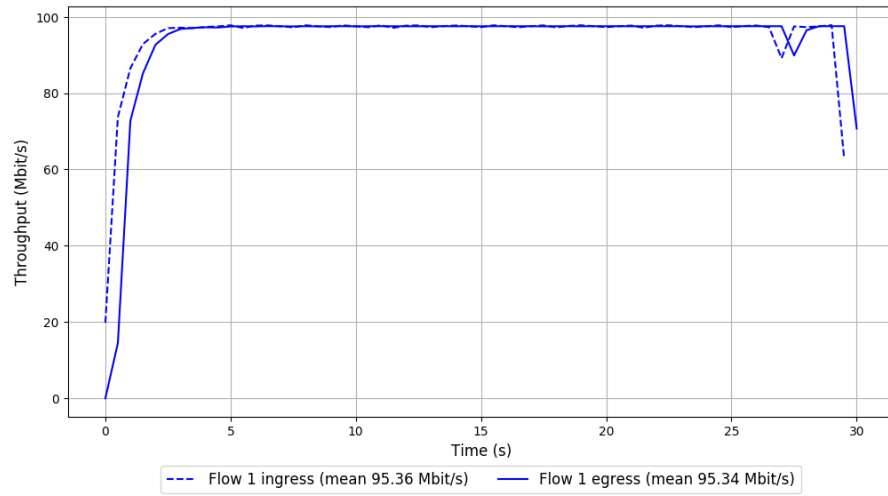
-- Flow 1:

Average throughput: 95.34 Mbit/s

95th percentile per-packet one-way delay: 40.354 ms

Loss rate: 0.01%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2018-07-24 09:51:40

End at: 2018-07-24 09:52:10

Local clock offset: 1.091 ms

Remote clock offset: 4.141 ms

Below is generated by plot.py at 2018-07-24 10:37:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.40 Mbit/s

95th percentile per-packet one-way delay: 40.419 ms

Loss rate: 0.02%

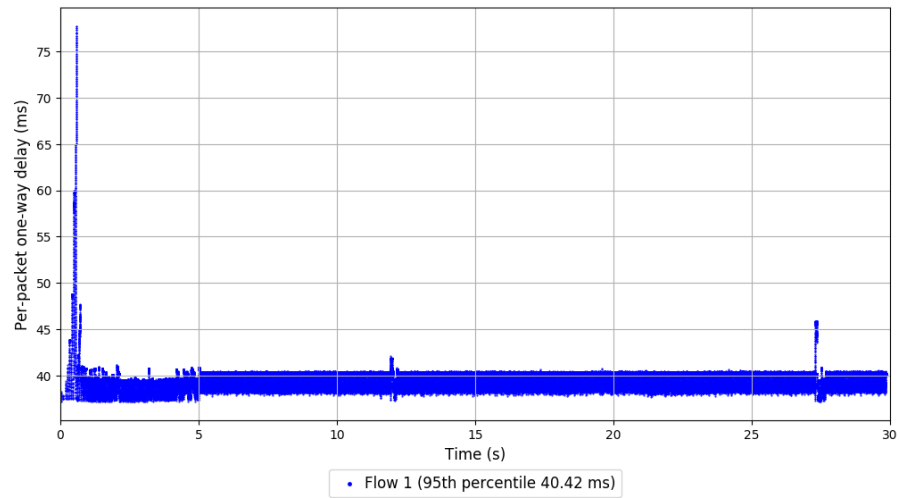
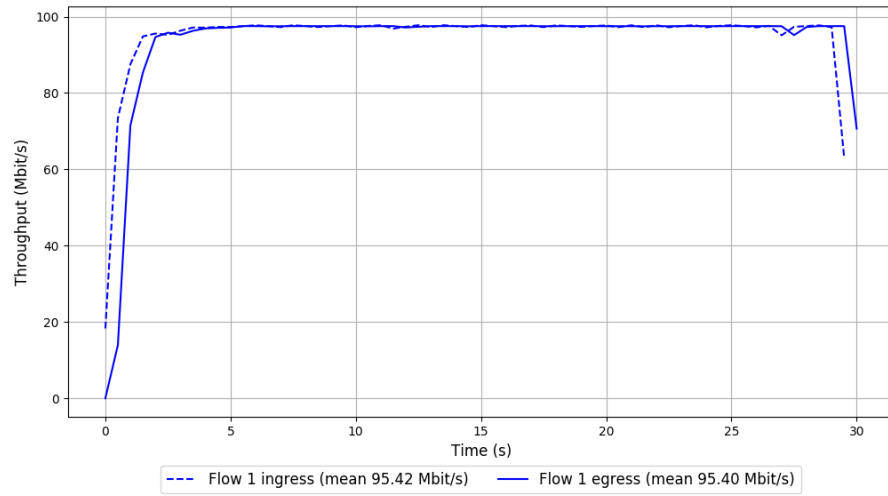
-- Flow 1:

Average throughput: 95.40 Mbit/s

95th percentile per-packet one-way delay: 40.419 ms

Loss rate: 0.02%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-07-24 10:13:52

End at: 2018-07-24 10:14:22

Local clock offset: 1.586 ms

Remote clock offset: 5.27 ms

Below is generated by plot.py at 2018-07-24 10:37:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.52 Mbit/s

95th percentile per-packet one-way delay: 40.294 ms

Loss rate: 0.00%

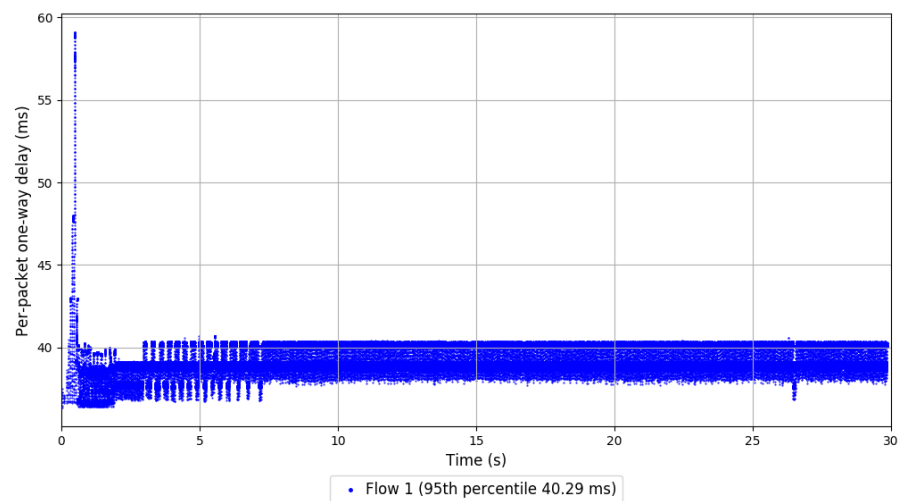
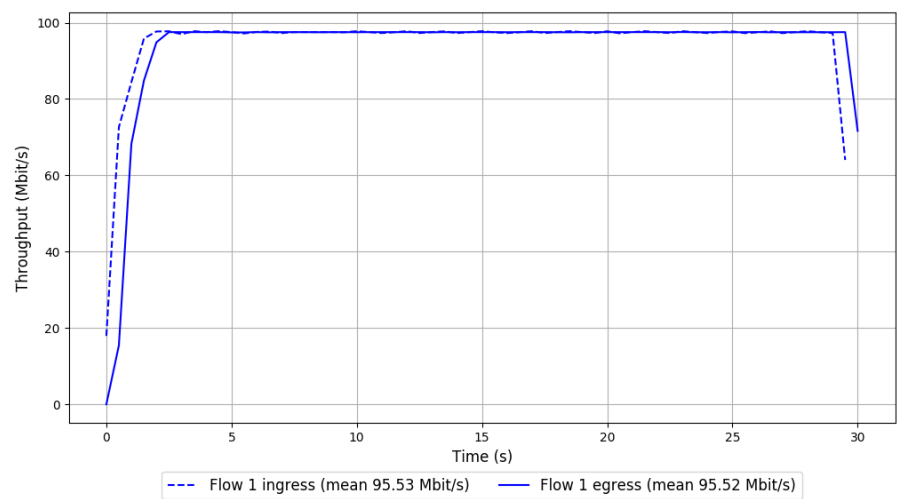
-- Flow 1:

Average throughput: 95.52 Mbit/s

95th percentile per-packet one-way delay: 40.294 ms

Loss rate: 0.00%

Run 10: Report of Indigo — Data Link



Run 1: Statistics of LEDBAT

Start at: 2018-07-24 07:02:32

End at: 2018-07-24 07:03:02

Local clock offset: -15.7 ms

Remote clock offset: 4.363 ms

Below is generated by plot.py at 2018-07-24 10:37:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 61.47 Mbit/s

95th percentile per-packet one-way delay: 61.971 ms

Loss rate: 0.03%

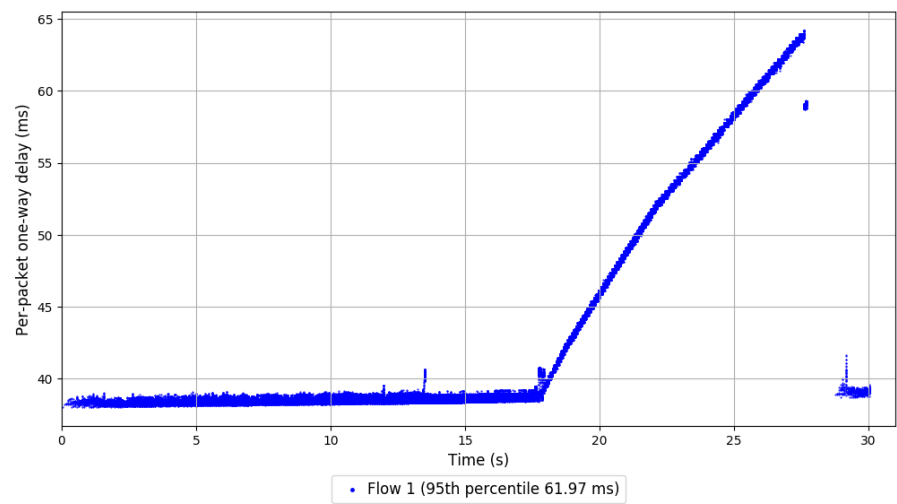
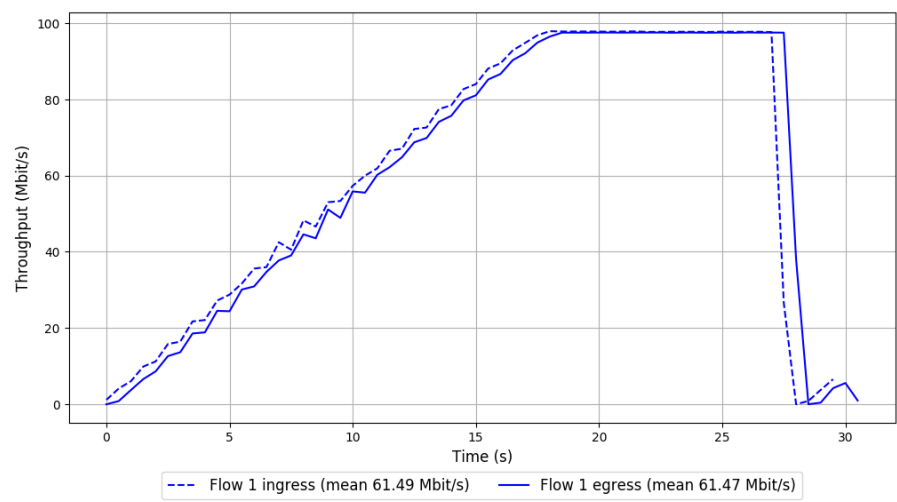
-- Flow 1:

Average throughput: 61.47 Mbit/s

95th percentile per-packet one-way delay: 61.971 ms

Loss rate: 0.03%

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-07-24 07:24:50

End at: 2018-07-24 07:25:20

Local clock offset: -7.032 ms

Remote clock offset: 3.918 ms

Below is generated by plot.py at 2018-07-24 10:37:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 47.24 Mbit/s

95th percentile per-packet one-way delay: 47.220 ms

Loss rate: 0.04%

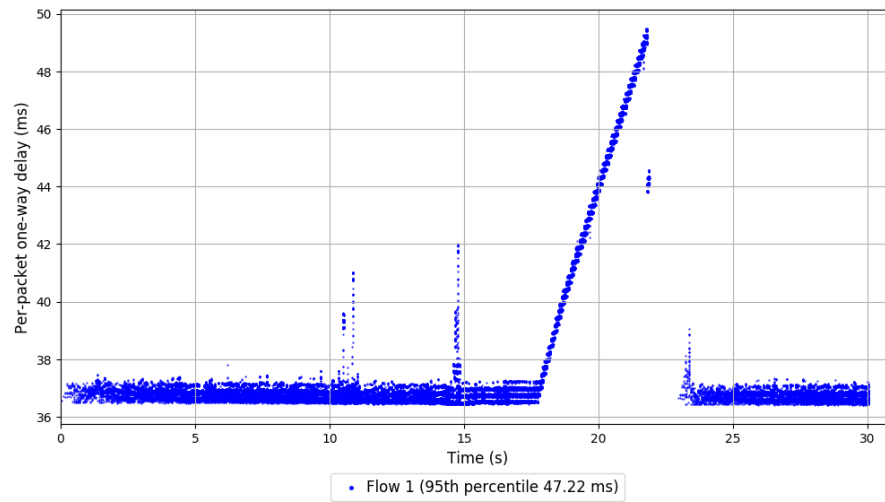
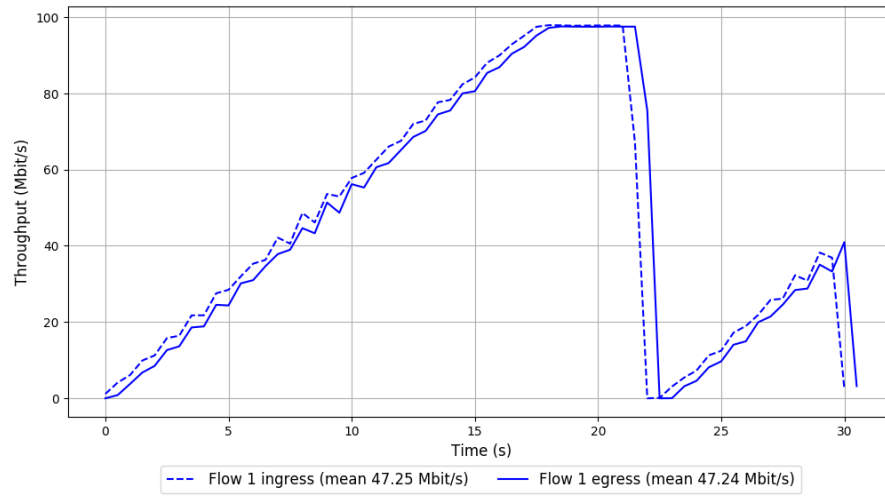
-- Flow 1:

Average throughput: 47.24 Mbit/s

95th percentile per-packet one-way delay: 47.220 ms

Loss rate: 0.04%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-07-24 07:47:05

End at: 2018-07-24 07:47:35

Local clock offset: -3.051 ms

Remote clock offset: 4.216 ms

Below is generated by plot.py at 2018-07-24 10:37:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.70 Mbit/s

95th percentile per-packet one-way delay: 62.601 ms

Loss rate: 0.00%

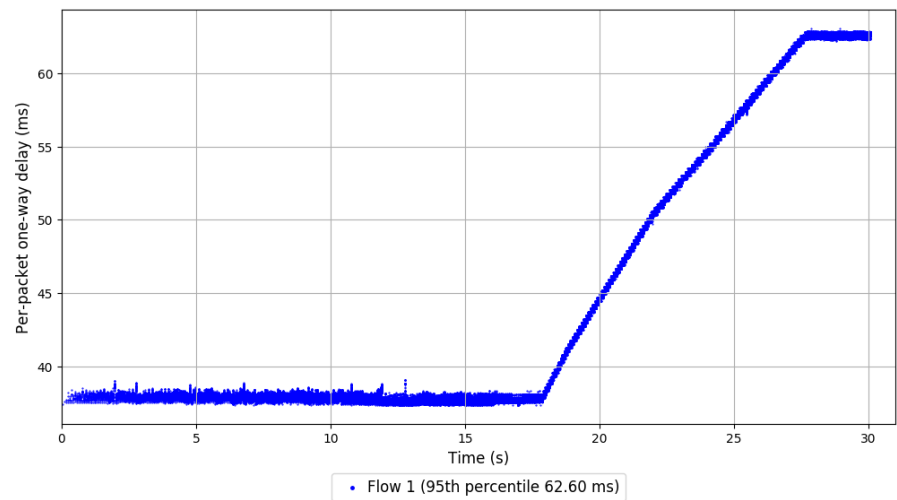
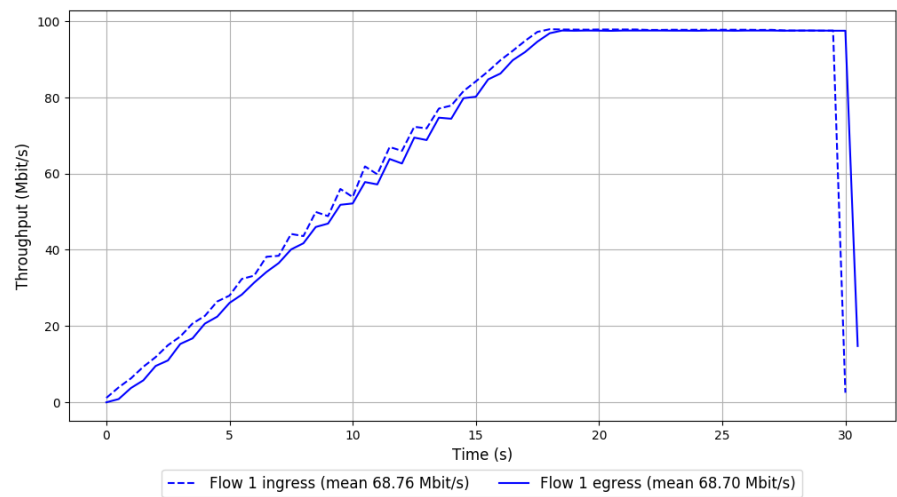
-- Flow 1:

Average throughput: 68.70 Mbit/s

95th percentile per-packet one-way delay: 62.601 ms

Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-07-24 08:09:25

End at: 2018-07-24 08:09:55

Local clock offset: -1.643 ms

Remote clock offset: 1.484 ms

Below is generated by plot.py at 2018-07-24 10:37:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 59.96 Mbit/s

95th percentile per-packet one-way delay: 51.520 ms

Loss rate: 0.00%

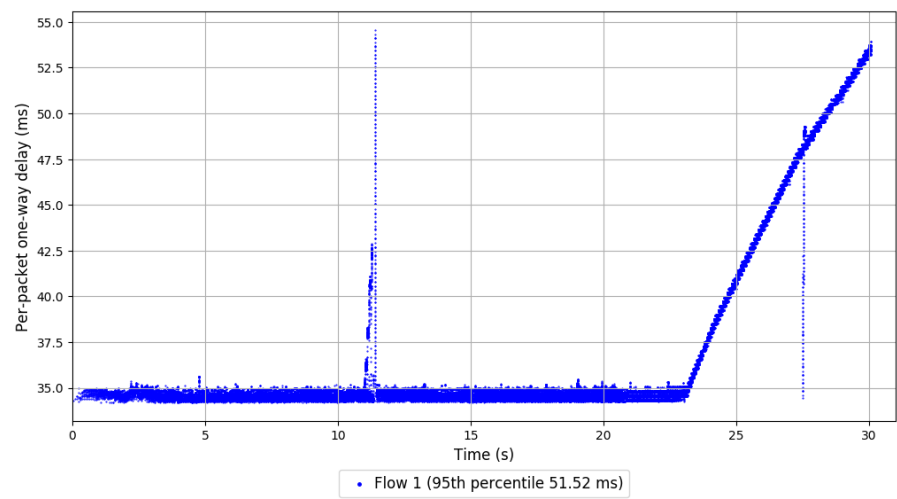
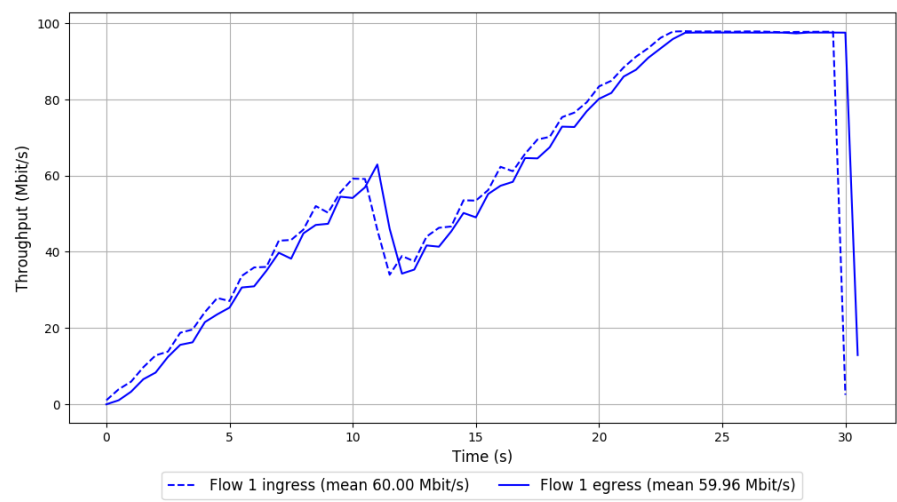
-- Flow 1:

Average throughput: 59.96 Mbit/s

95th percentile per-packet one-way delay: 51.520 ms

Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-07-24 08:31:43

End at: 2018-07-24 08:32:13

Local clock offset: -1.611 ms

Remote clock offset: 3.835 ms

Below is generated by plot.py at 2018-07-24 10:37:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.58 Mbit/s

95th percentile per-packet one-way delay: 62.673 ms

Loss rate: 0.00%

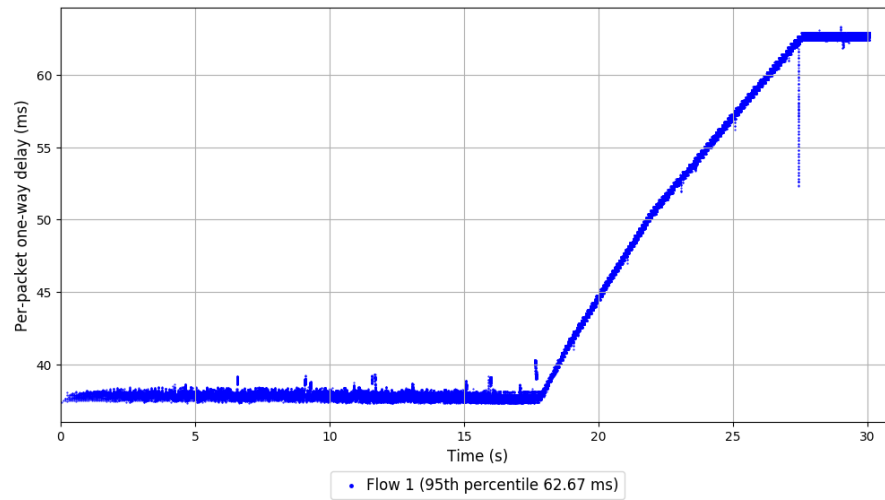
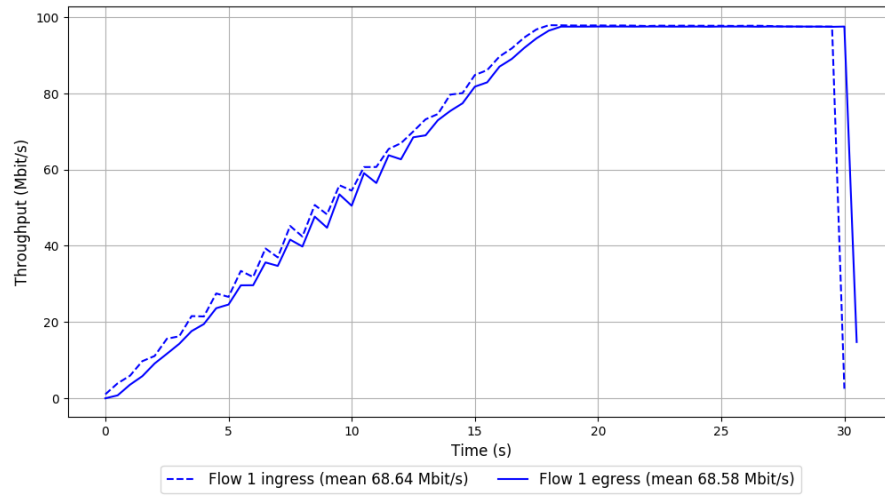
-- Flow 1:

Average throughput: 68.58 Mbit/s

95th percentile per-packet one-way delay: 62.673 ms

Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-07-24 08:54:02

End at: 2018-07-24 08:54:32

Local clock offset: -0.898 ms

Remote clock offset: 4.568 ms

Below is generated by plot.py at 2018-07-24 10:37:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 52.13 Mbit/s

95th percentile per-packet one-way delay: 53.917 ms

Loss rate: 0.03%

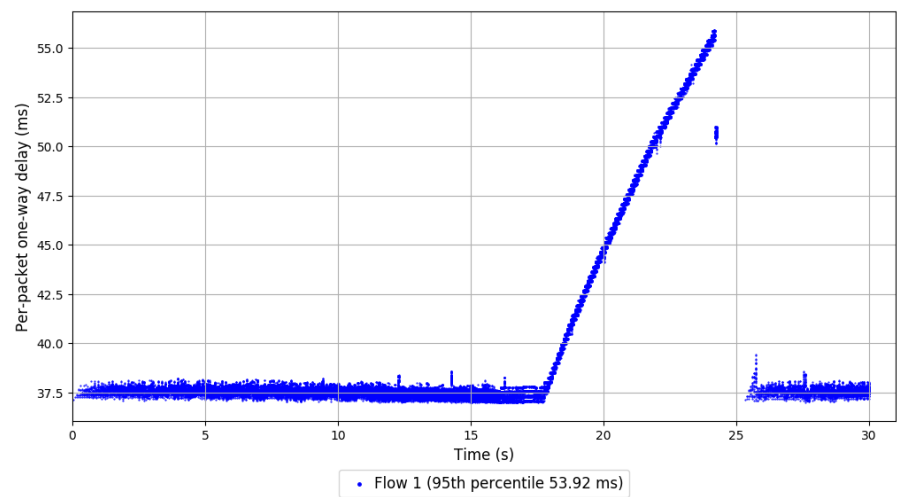
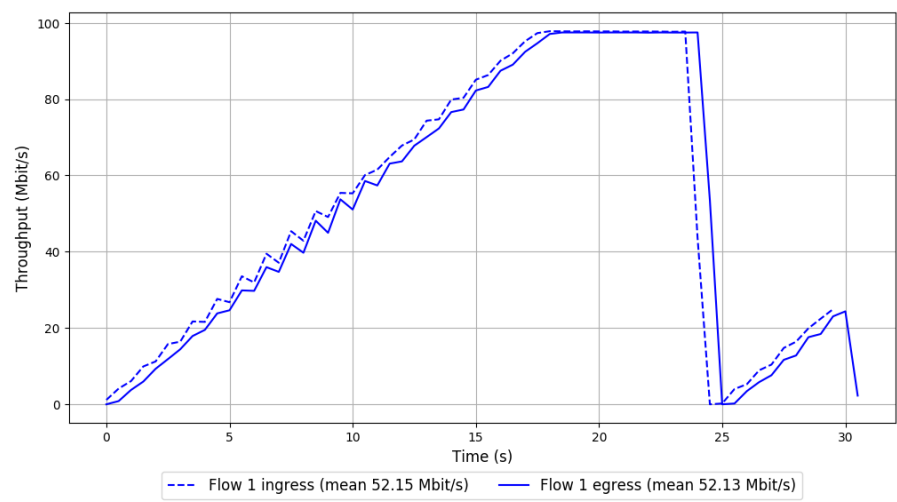
-- Flow 1:

Average throughput: 52.13 Mbit/s

95th percentile per-packet one-way delay: 53.917 ms

Loss rate: 0.03%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-07-24 09:16:18

End at: 2018-07-24 09:16:48

Local clock offset: -0.415 ms

Remote clock offset: 2.997 ms

Below is generated by plot.py at 2018-07-24 10:38:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 65.92 Mbit/s

95th percentile per-packet one-way delay: 60.100 ms

Loss rate: 0.02%

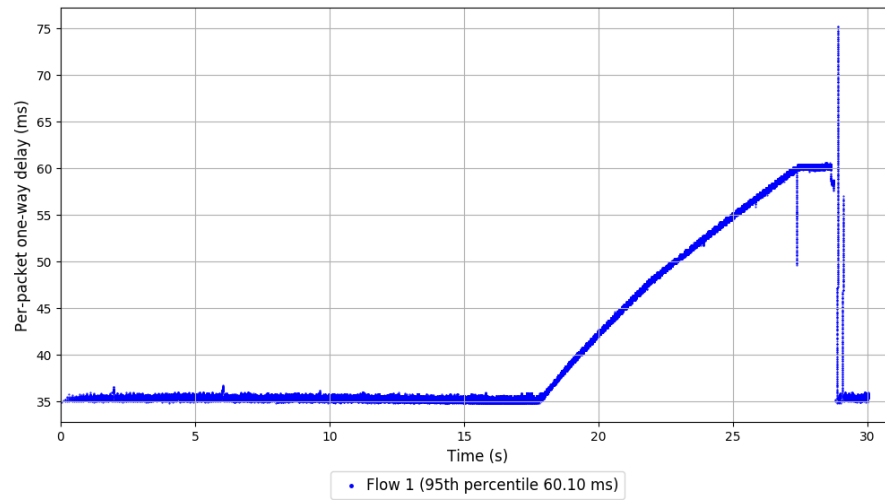
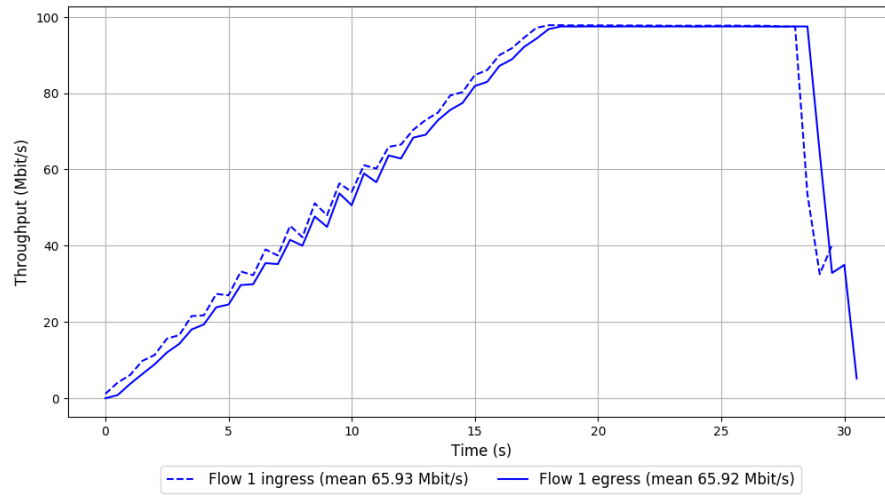
-- Flow 1:

Average throughput: 65.92 Mbit/s

95th percentile per-packet one-way delay: 60.100 ms

Loss rate: 0.02%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-07-24 09:38:30

End at: 2018-07-24 09:39:00

Local clock offset: 0.391 ms

Remote clock offset: 4.316 ms

Below is generated by plot.py at 2018-07-24 10:38:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 48.51 Mbit/s

95th percentile per-packet one-way delay: 50.316 ms

Loss rate: 0.03%

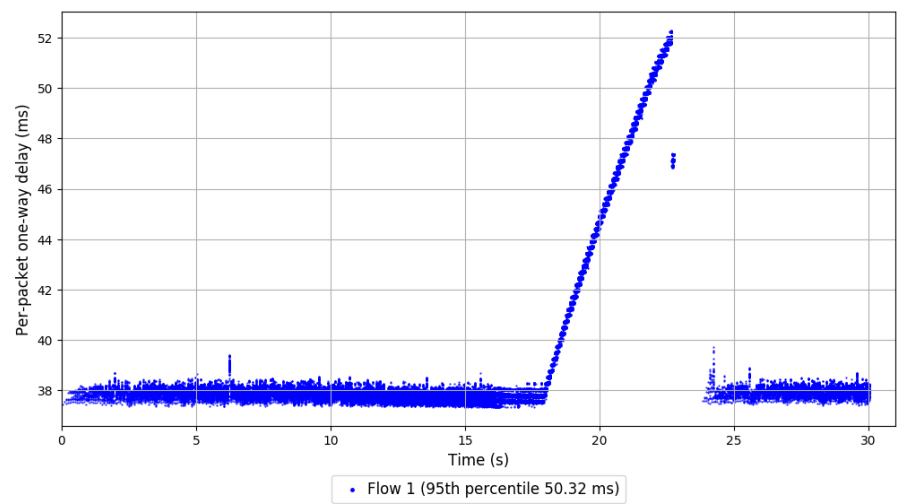
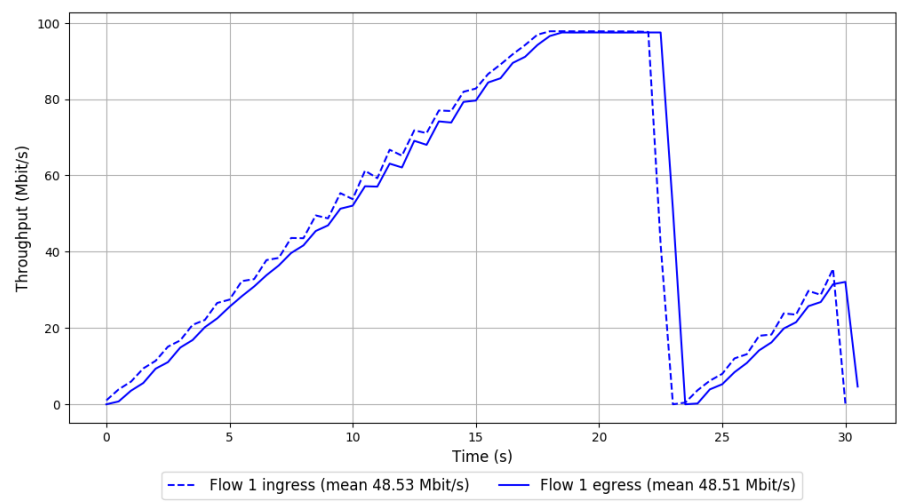
-- Flow 1:

Average throughput: 48.51 Mbit/s

95th percentile per-packet one-way delay: 50.316 ms

Loss rate: 0.03%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-07-24 10:00:45

End at: 2018-07-24 10:01:15

Local clock offset: 1.286 ms

Remote clock offset: 4.844 ms

Below is generated by plot.py at 2018-07-24 10:38:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.32 Mbit/s

95th percentile per-packet one-way delay: 62.529 ms

Loss rate: 0.00%

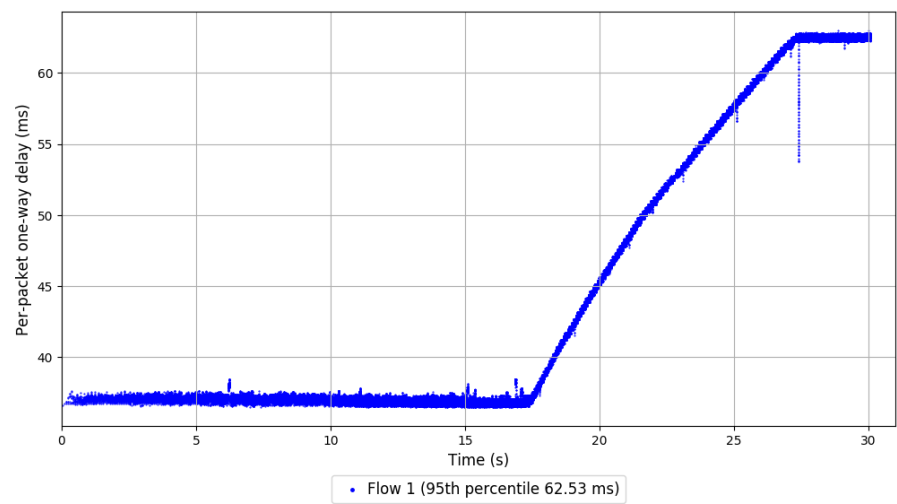
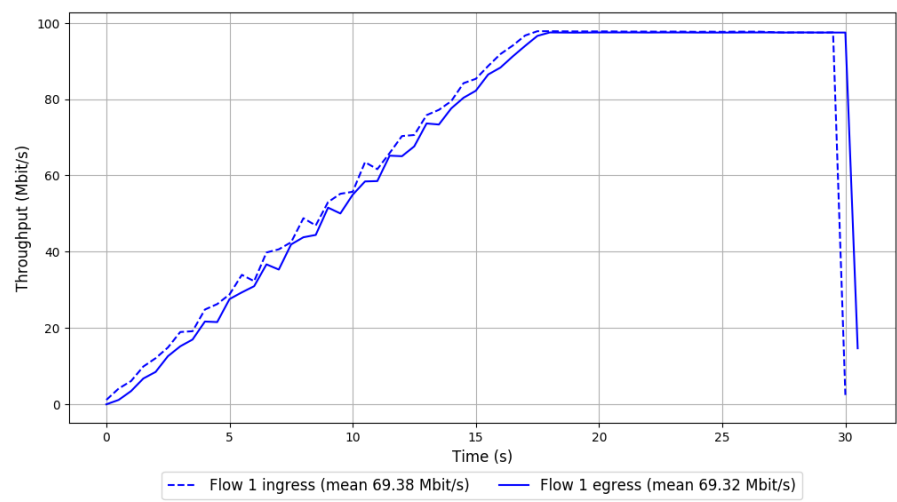
-- Flow 1:

Average throughput: 69.32 Mbit/s

95th percentile per-packet one-way delay: 62.529 ms

Loss rate: 0.00%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-07-24 10:23:01

End at: 2018-07-24 10:23:31

Local clock offset: 1.687 ms

Remote clock offset: 5.467 ms

Below is generated by plot.py at 2018-07-24 10:38:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.22 Mbit/s

95th percentile per-packet one-way delay: 62.403 ms

Loss rate: 0.00%

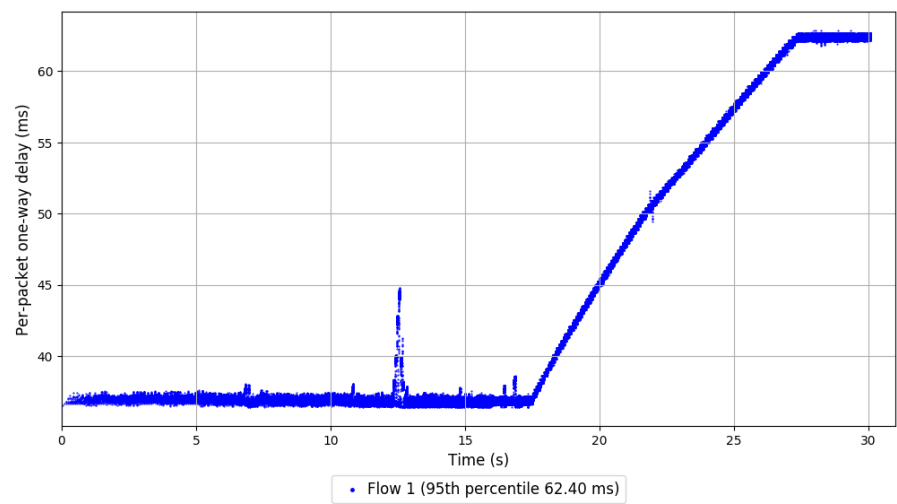
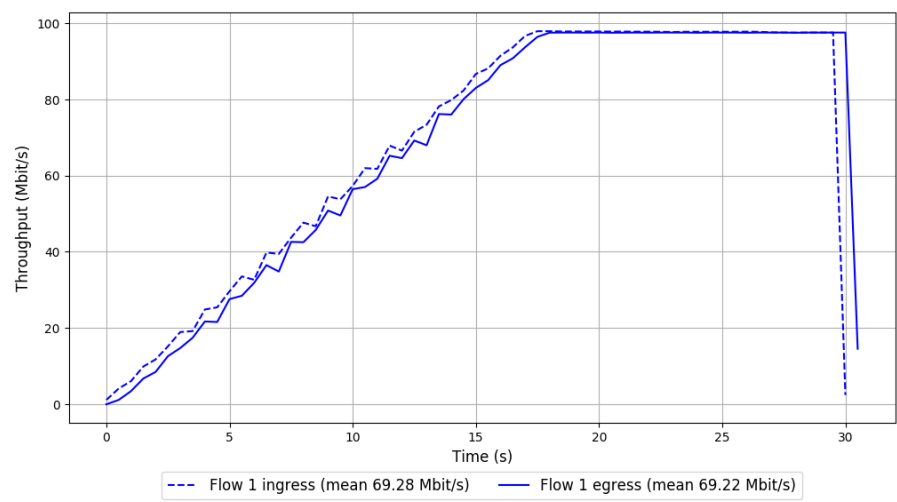
-- Flow 1:

Average throughput: 69.22 Mbit/s

95th percentile per-packet one-way delay: 62.403 ms

Loss rate: 0.00%

Run 10: Report of LEDBAT — Data Link

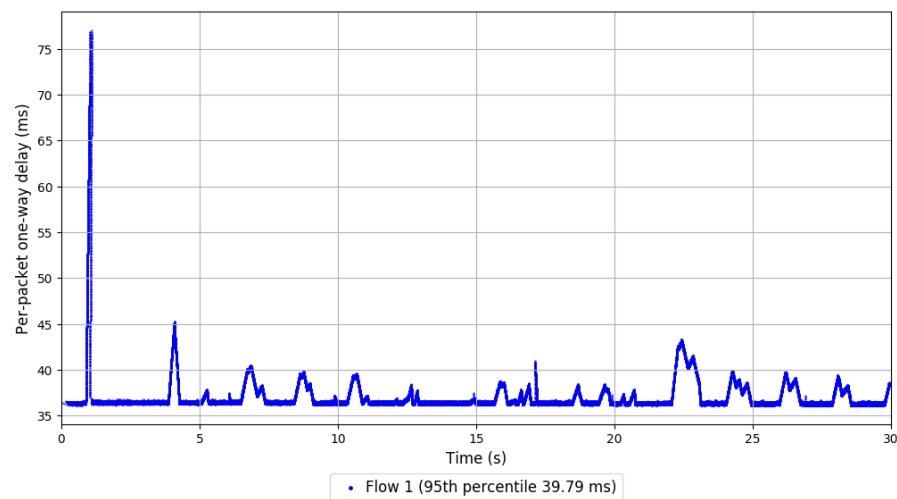
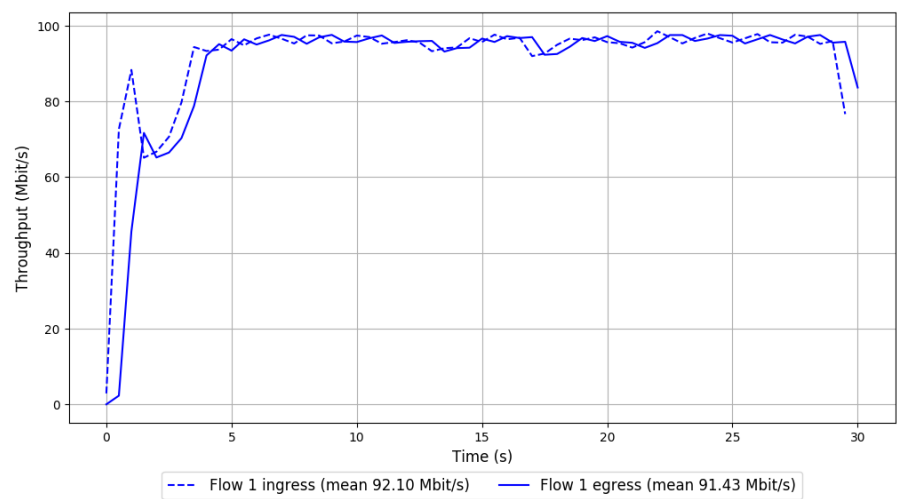


Run 1: Statistics of PCC-Allegro

Start at: 2018-07-24 06:57:19
End at: 2018-07-24 06:57:49
Local clock offset: -14.981 ms
Remote clock offset: 4.334 ms

Below is generated by plot.py at 2018-07-24 10:38:50
Datalink statistics
-- Total of 1 flow:
Average throughput: 91.43 Mbit/s
95th percentile per-packet one-way delay: 39.791 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 91.43 Mbit/s
95th percentile per-packet one-way delay: 39.791 ms
Loss rate: 0.72%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-07-24 07:19:38

End at: 2018-07-24 07:20:08

Local clock offset: -6.42 ms

Remote clock offset: 4.527 ms

Below is generated by plot.py at 2018-07-24 10:38:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.89 Mbit/s

95th percentile per-packet one-way delay: 42.241 ms

Loss rate: 0.73%

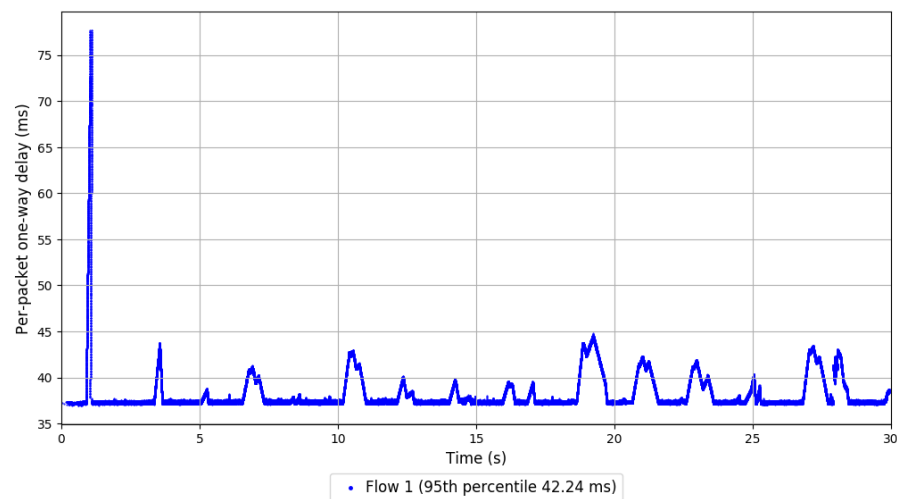
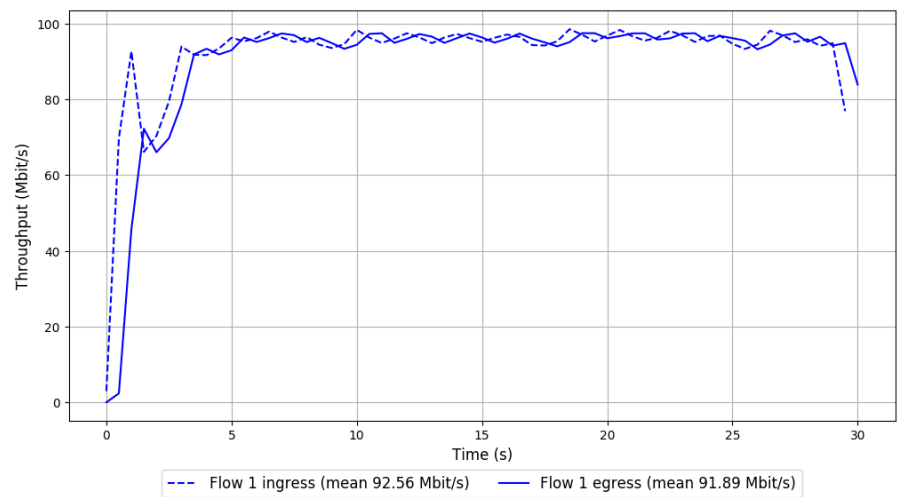
-- Flow 1:

Average throughput: 91.89 Mbit/s

95th percentile per-packet one-way delay: 42.241 ms

Loss rate: 0.73%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-07-24 07:41:52

End at: 2018-07-24 07:42:22

Local clock offset: -3.477 ms

Remote clock offset: 2.011 ms

Below is generated by plot.py at 2018-07-24 10:38:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.71 Mbit/s

95th percentile per-packet one-way delay: 42.342 ms

Loss rate: 0.73%

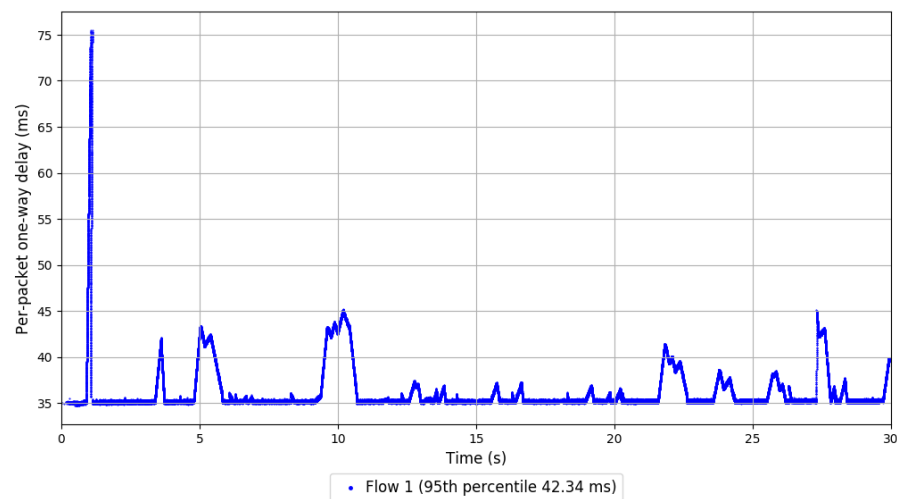
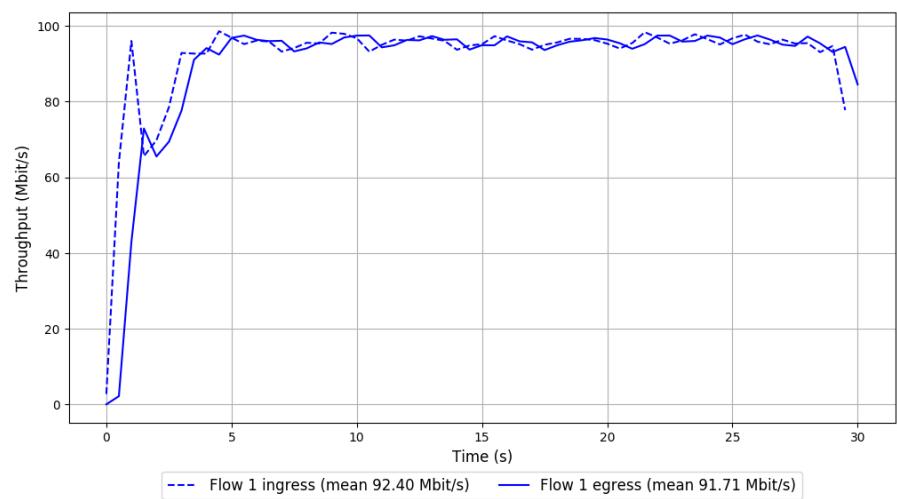
-- Flow 1:

Average throughput: 91.71 Mbit/s

95th percentile per-packet one-way delay: 42.342 ms

Loss rate: 0.73%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-07-24 08:04:11

End at: 2018-07-24 08:04:41

Local clock offset: -3.038 ms

Remote clock offset: 3.841 ms

Below is generated by plot.py at 2018-07-24 10:39:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.75 Mbit/s

95th percentile per-packet one-way delay: 42.708 ms

Loss rate: 0.70%

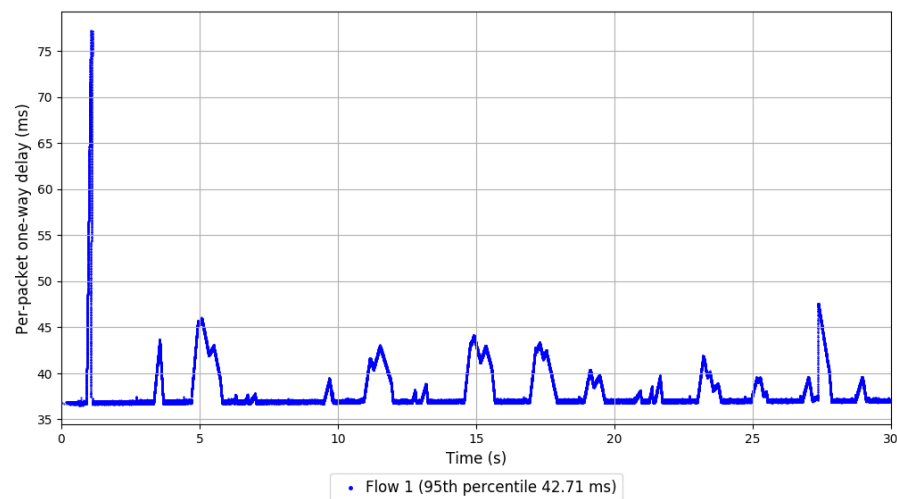
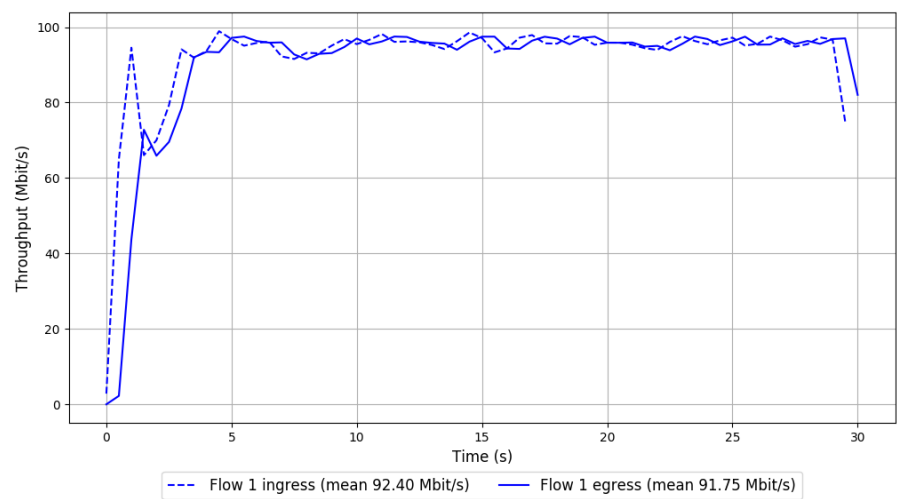
-- Flow 1:

Average throughput: 91.75 Mbit/s

95th percentile per-packet one-way delay: 42.708 ms

Loss rate: 0.70%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-07-24 08:26:29

End at: 2018-07-24 08:26:59

Local clock offset: -1.29 ms

Remote clock offset: 3.931 ms

Below is generated by plot.py at 2018-07-24 10:39:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.85 Mbit/s

95th percentile per-packet one-way delay: 44.018 ms

Loss rate: 0.73%

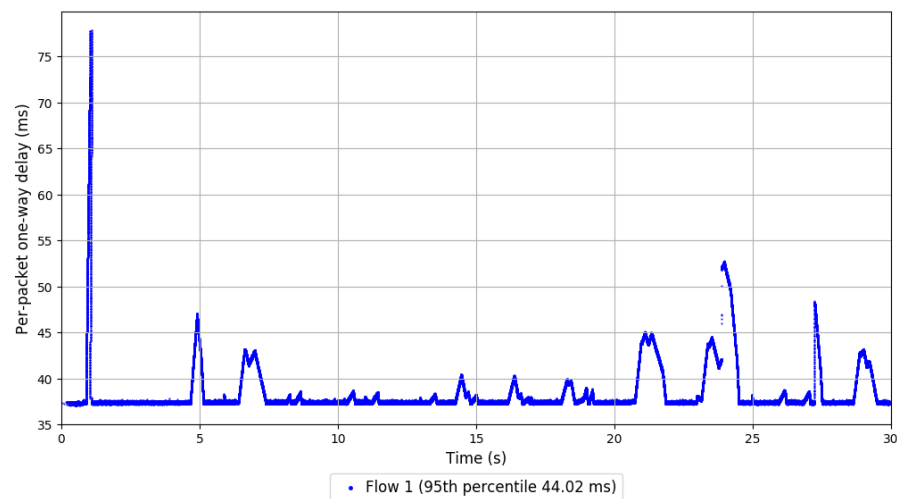
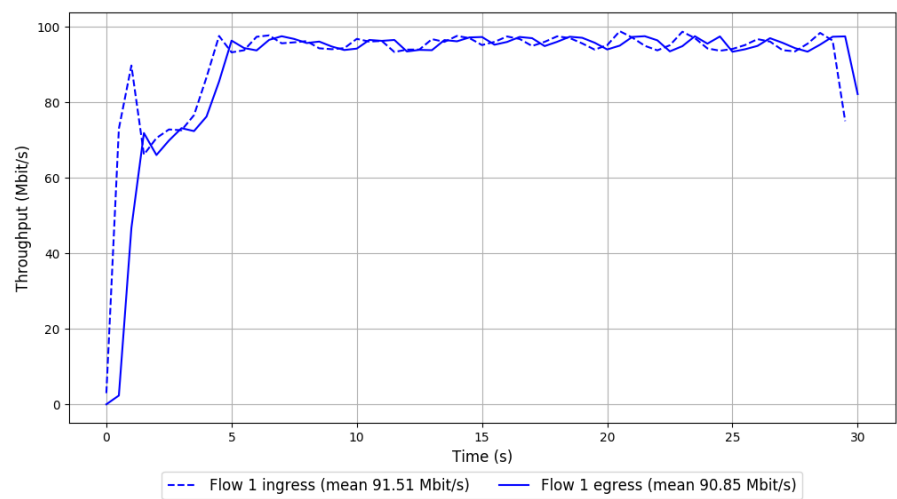
-- Flow 1:

Average throughput: 90.85 Mbit/s

95th percentile per-packet one-way delay: 44.018 ms

Loss rate: 0.73%

Run 5: Report of PCC-Allegro — Data Link



Run 6: Statistics of PCC-Allegro

Start at: 2018-07-24 08:48:48

End at: 2018-07-24 08:49:18

Local clock offset: -0.731 ms

Remote clock offset: 4.194 ms

Below is generated by plot.py at 2018-07-24 10:39:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.83 Mbit/s

95th percentile per-packet one-way delay: 43.118 ms

Loss rate: 0.70%

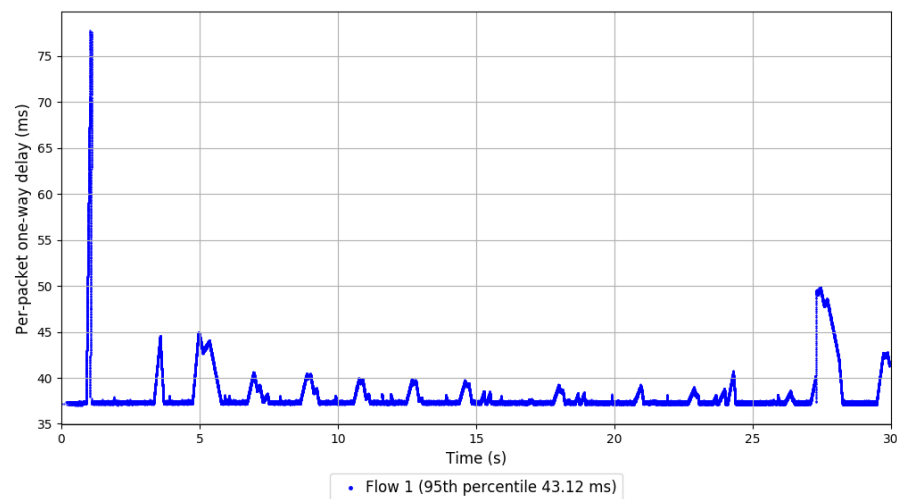
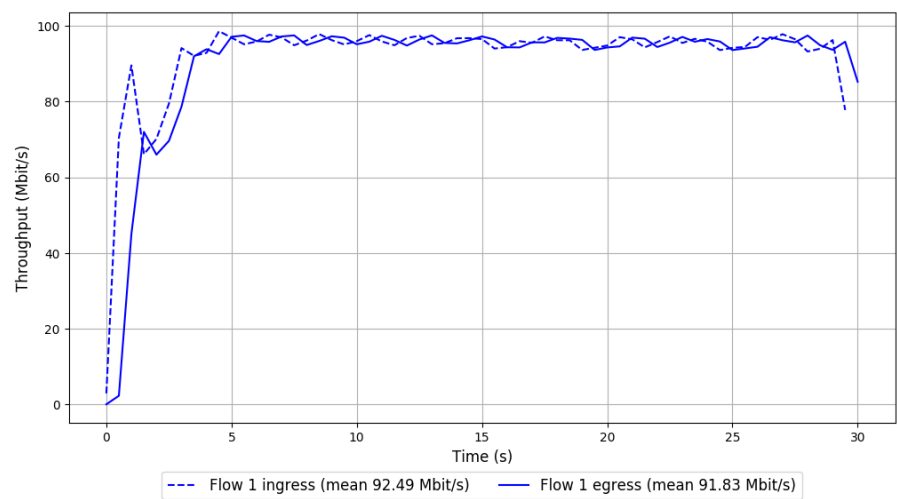
-- Flow 1:

Average throughput: 91.83 Mbit/s

95th percentile per-packet one-way delay: 43.118 ms

Loss rate: 0.70%

Run 6: Report of PCC-Allegro — Data Link



Run 7: Statistics of PCC-Allegro

Start at: 2018-07-24 09:11:05

End at: 2018-07-24 09:11:35

Local clock offset: -0.43 ms

Remote clock offset: 5.191 ms

Below is generated by plot.py at 2018-07-24 10:39:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.02 Mbit/s

95th percentile per-packet one-way delay: 43.688 ms

Loss rate: 0.73%

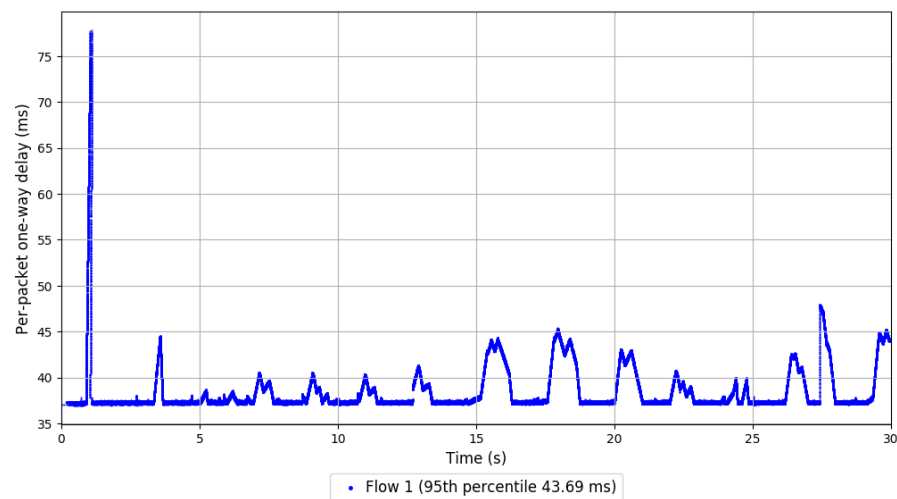
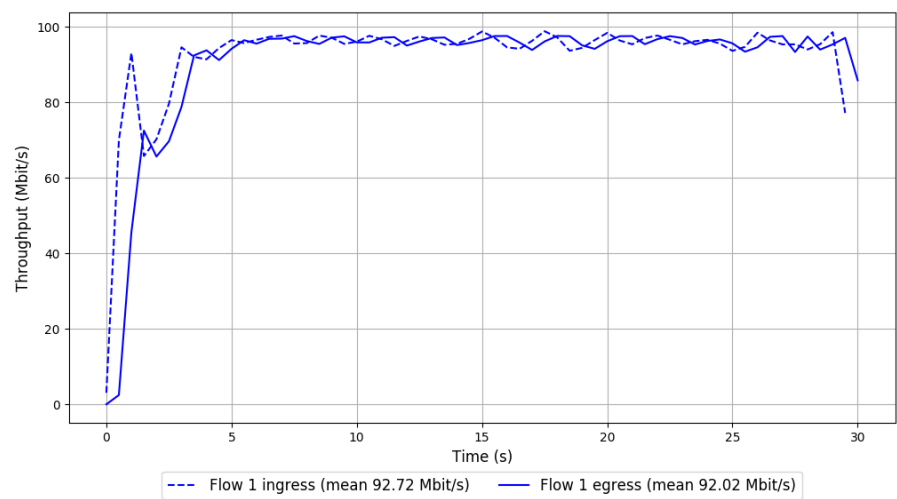
-- Flow 1:

Average throughput: 92.02 Mbit/s

95th percentile per-packet one-way delay: 43.688 ms

Loss rate: 0.73%

Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-07-24 09:33:19

End at: 2018-07-24 09:33:49

Local clock offset: -0.354 ms

Remote clock offset: 4.475 ms

Below is generated by plot.py at 2018-07-24 10:39:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.86 Mbit/s

95th percentile per-packet one-way delay: 41.753 ms

Loss rate: 0.69%

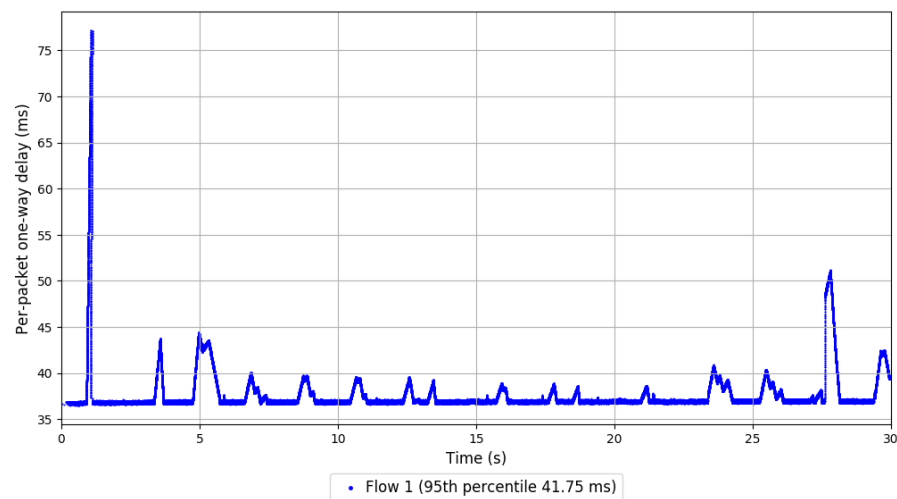
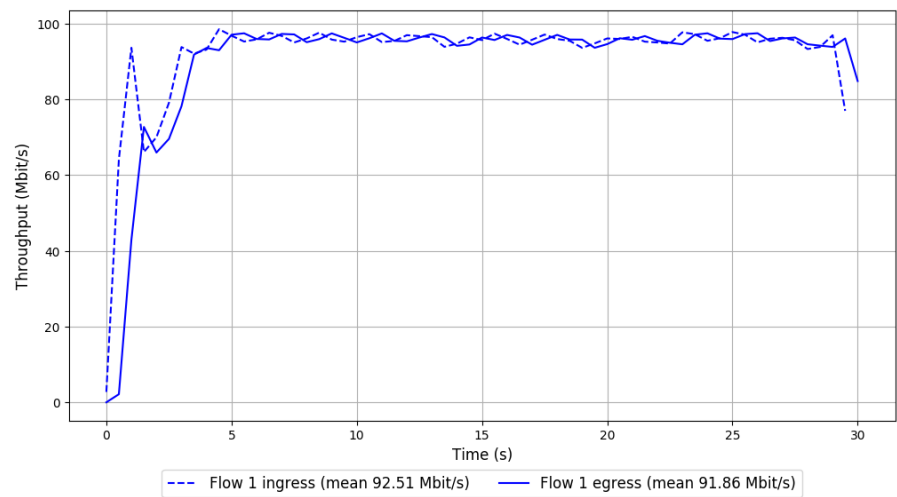
-- Flow 1:

Average throughput: 91.86 Mbit/s

95th percentile per-packet one-way delay: 41.753 ms

Loss rate: 0.69%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-07-24 09:55:32

End at: 2018-07-24 09:56:02

Local clock offset: 1.163 ms

Remote clock offset: 1.996 ms

Below is generated by plot.py at 2018-07-24 10:39:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.91 Mbit/s

95th percentile per-packet one-way delay: 39.243 ms

Loss rate: 0.70%

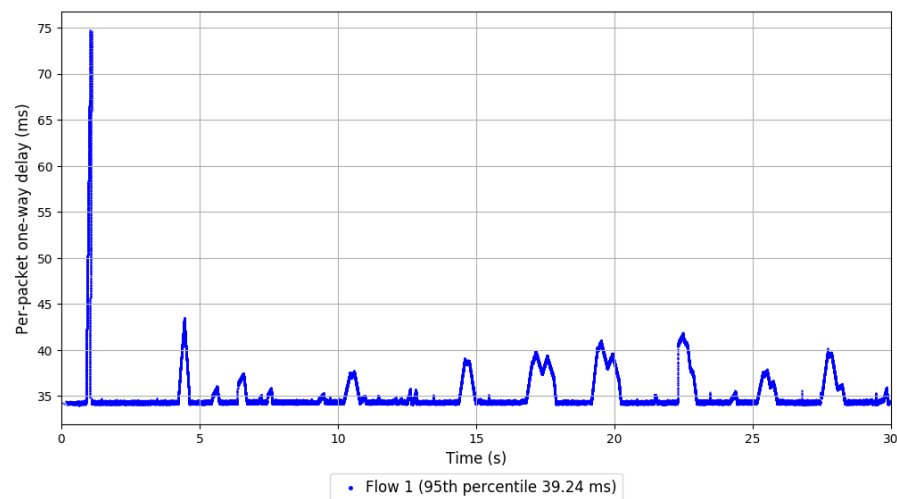
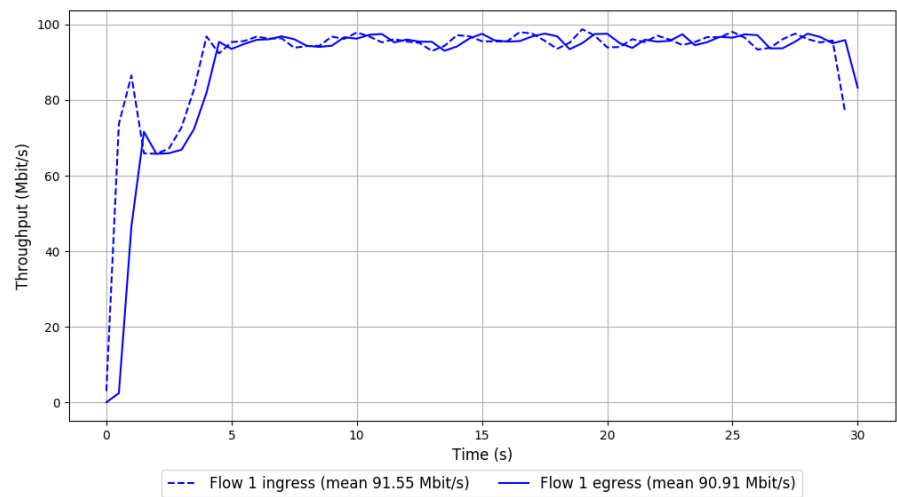
-- Flow 1:

Average throughput: 90.91 Mbit/s

95th percentile per-packet one-way delay: 39.243 ms

Loss rate: 0.70%

Run 9: Report of PCC-Allegro — Data Link



Run 10: Statistics of PCC-Allegro

Start at: 2018-07-24 10:17:47

End at: 2018-07-24 10:18:17

Local clock offset: 1.638 ms

Remote clock offset: 5.348 ms

Below is generated by plot.py at 2018-07-24 10:39:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.57 Mbit/s

95th percentile per-packet one-way delay: 42.061 ms

Loss rate: 0.75%

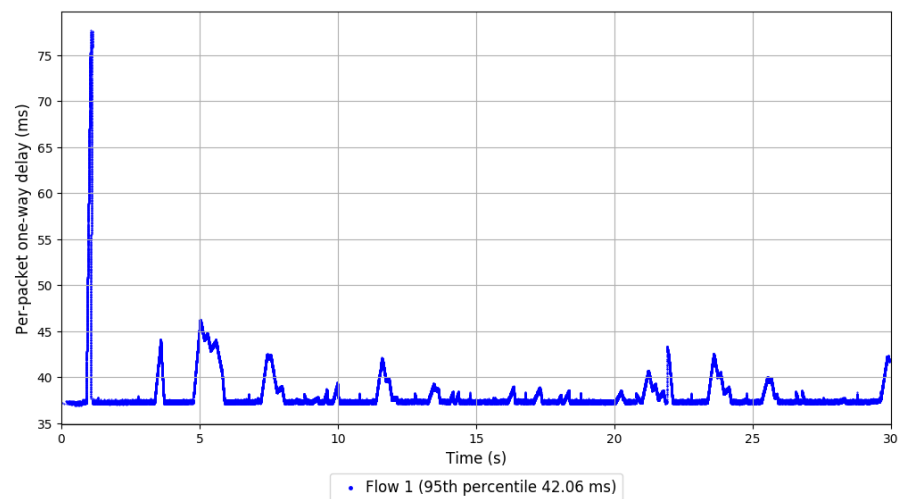
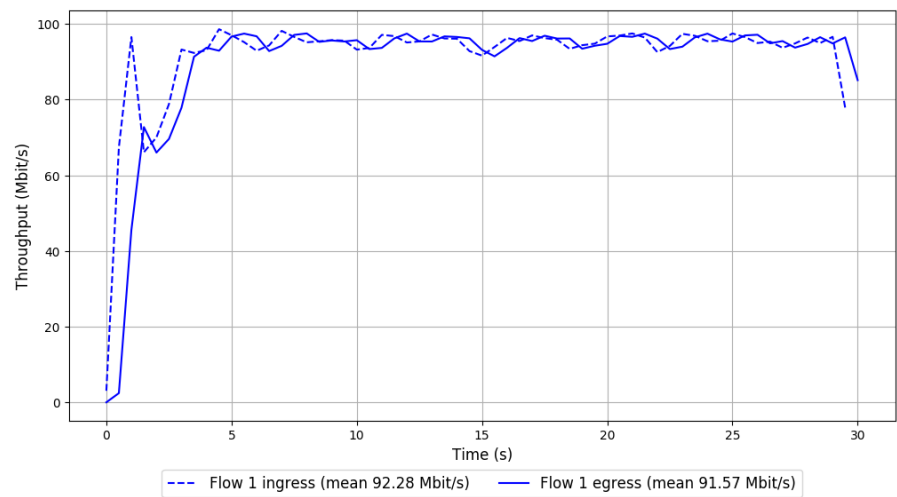
-- Flow 1:

Average throughput: 91.57 Mbit/s

95th percentile per-packet one-way delay: 42.061 ms

Loss rate: 0.75%

Run 10: Report of PCC-Allegro — Data Link

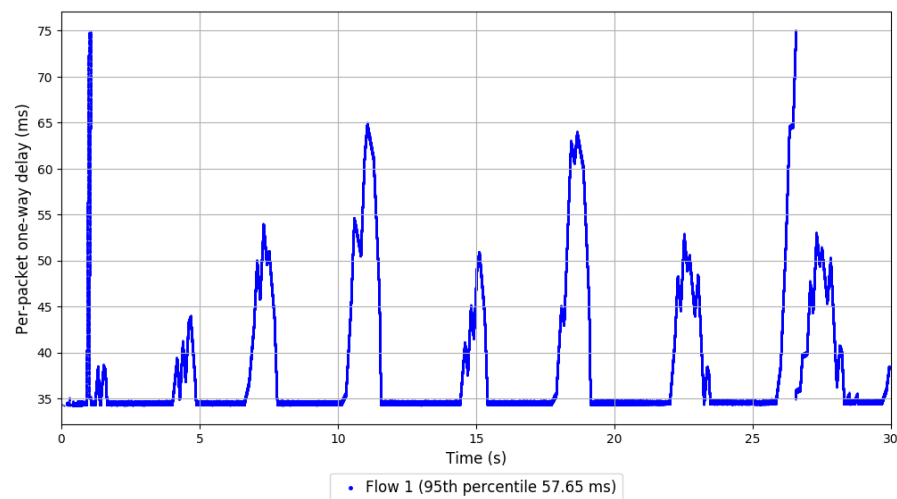
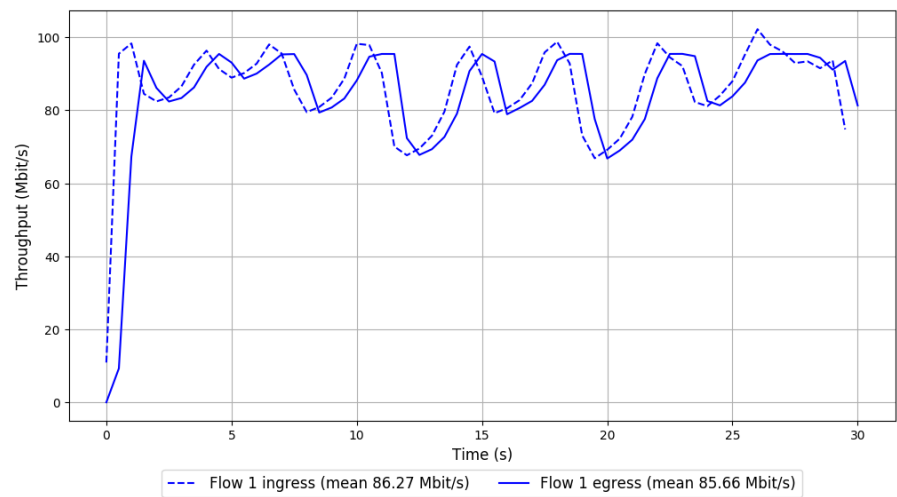


```
Run 1: Statistics of PCC-Expr

Start at: 2018-07-24 06:44:19
End at: 2018-07-24 06:44:49
Local clock offset: -13.275 ms
Remote clock offset: 1.942 ms

# Below is generated by plot.py at 2018-07-24 10:40:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.66 Mbit/s
95th percentile per-packet one-way delay: 57.646 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 85.66 Mbit/s
95th percentile per-packet one-way delay: 57.646 ms
Loss rate: 0.69%
```


Run 1: Report of PCC-Expr — Data Link

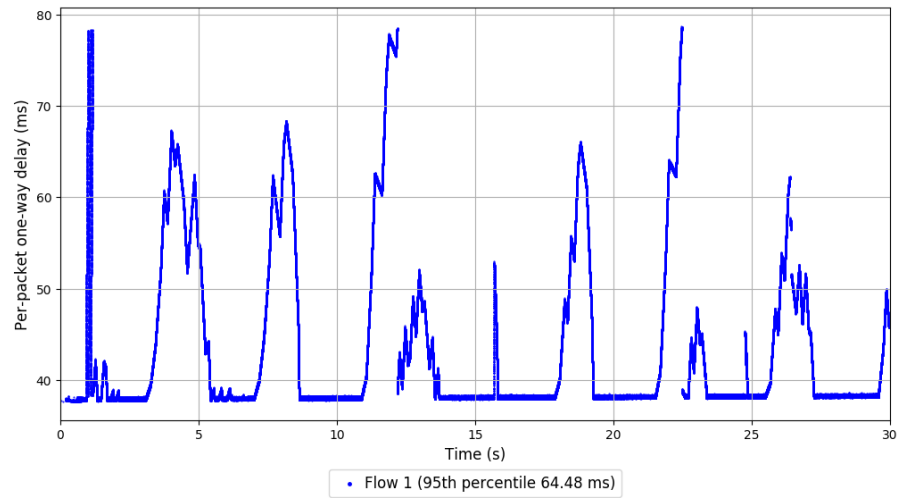
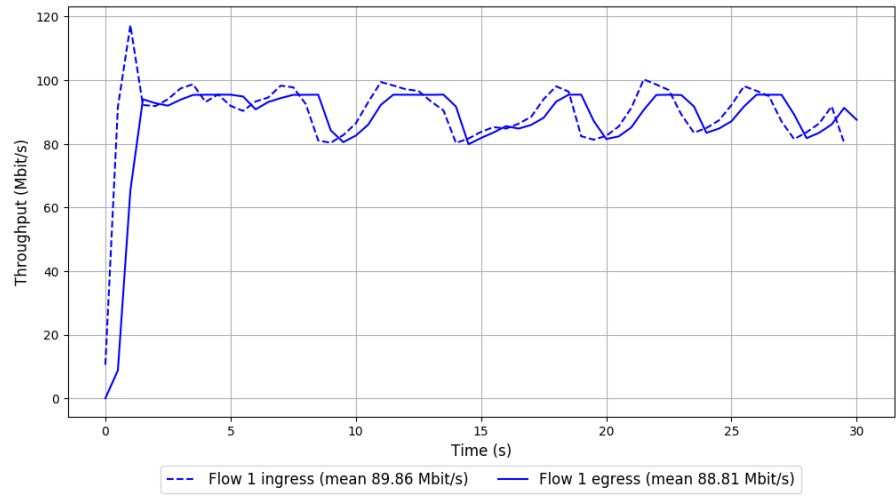


Run 2: Statistics of PCC-Expr

Start at: 2018-07-24 07:06:27
End at: 2018-07-24 07:06:57
Local clock offset: -10.828 ms
Remote clock offset: 4.348 ms

Below is generated by plot.py at 2018-07-24 10:40:57
Datalink statistics
-- Total of 1 flow:
Average throughput: 88.81 Mbit/s
95th percentile per-packet one-way delay: 64.482 ms
Loss rate: 1.14%
-- Flow 1:
Average throughput: 88.81 Mbit/s
95th percentile per-packet one-way delay: 64.482 ms
Loss rate: 1.14%

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2018-07-24 07:28:45

End at: 2018-07-24 07:29:15

Local clock offset: -7.65 ms

Remote clock offset: 4.573 ms

Below is generated by plot.py at 2018-07-24 10:40:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.71 Mbit/s

95th percentile per-packet one-way delay: 62.500 ms

Loss rate: 0.81%

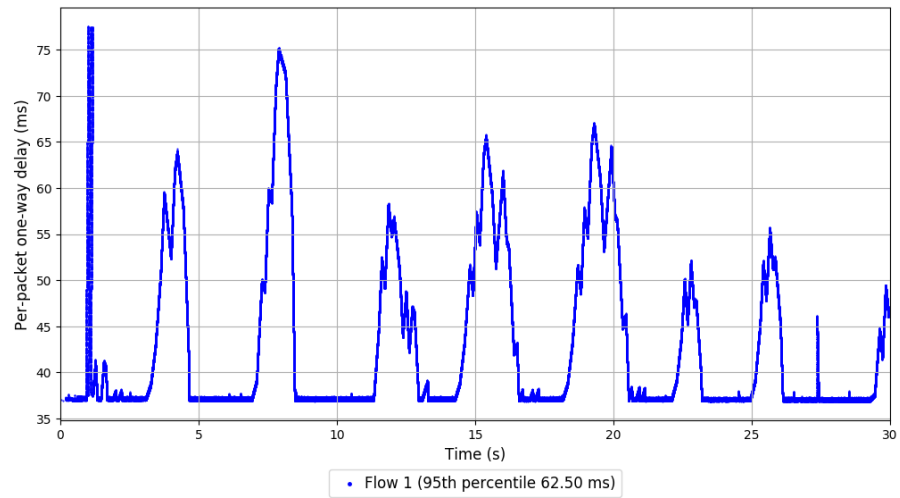
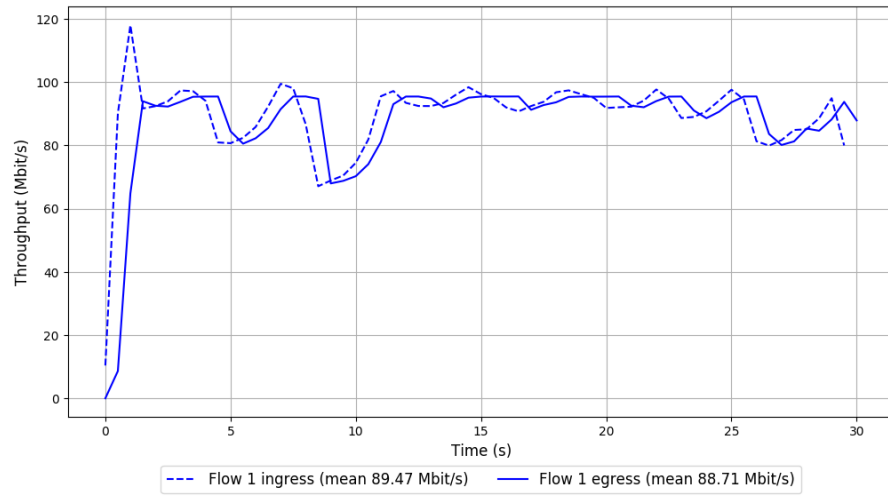
-- Flow 1:

Average throughput: 88.71 Mbit/s

95th percentile per-packet one-way delay: 62.500 ms

Loss rate: 0.81%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2018-07-24 07:51:02

End at: 2018-07-24 07:51:32

Local clock offset: -3.101 ms

Remote clock offset: 3.993 ms

Below is generated by plot.py at 2018-07-24 10:41:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.32 Mbit/s

95th percentile per-packet one-way delay: 70.574 ms

Loss rate: 1.22%

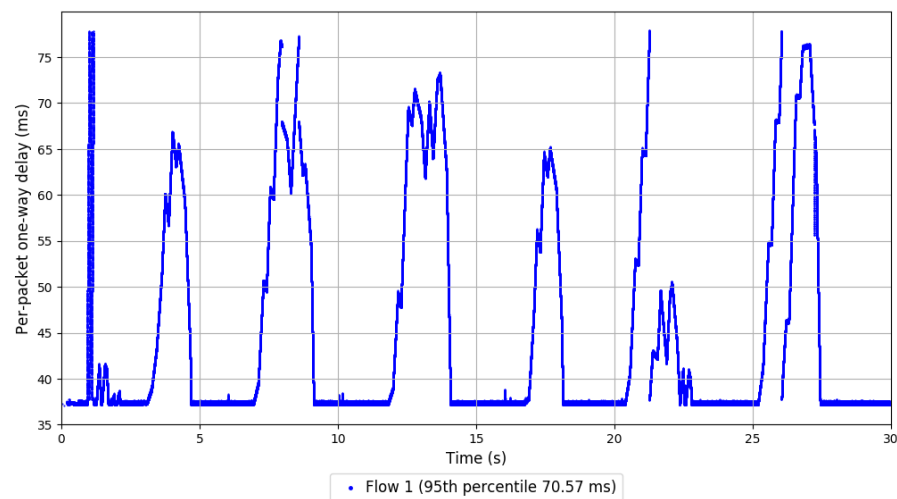
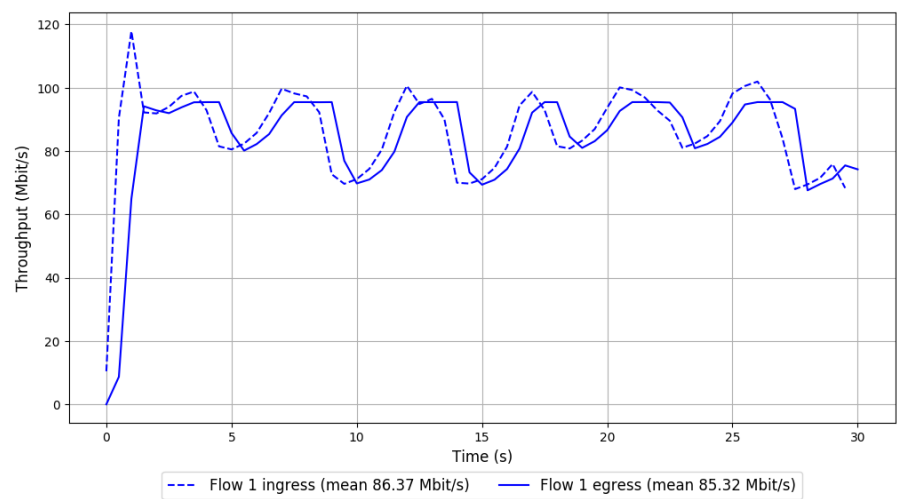
-- Flow 1:

Average throughput: 85.32 Mbit/s

95th percentile per-packet one-way delay: 70.574 ms

Loss rate: 1.22%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2018-07-24 08:13:20

End at: 2018-07-24 08:13:50

Local clock offset: -1.187 ms

Remote clock offset: 3.891 ms

Below is generated by plot.py at 2018-07-24 10:41:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.89 Mbit/s

95th percentile per-packet one-way delay: 62.349 ms

Loss rate: 0.97%

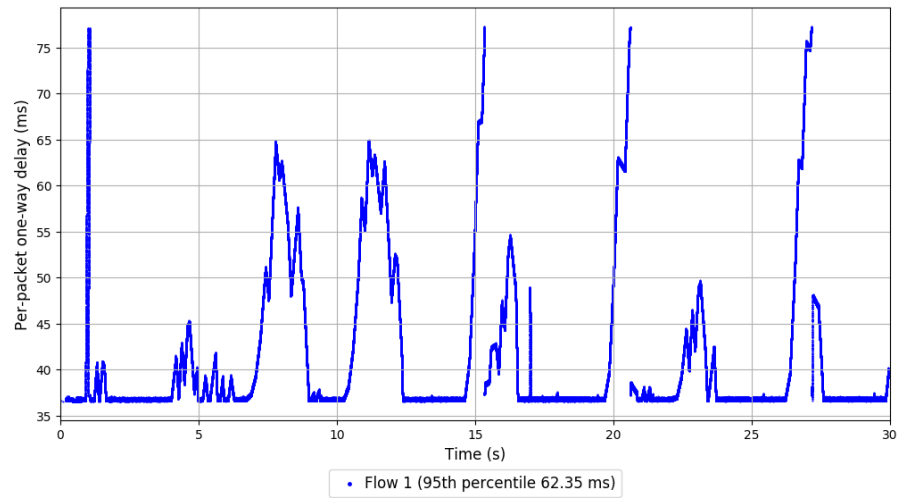
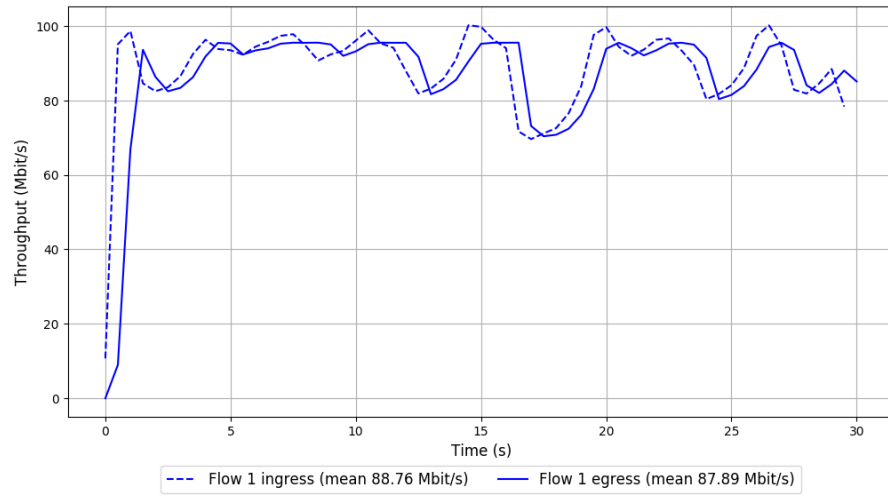
-- Flow 1:

Average throughput: 87.89 Mbit/s

95th percentile per-packet one-way delay: 62.349 ms

Loss rate: 0.97%

Run 5: Report of PCC-Expr — Data Link



Run 6: Statistics of PCC-Expr

Start at: 2018-07-24 08:35:40

End at: 2018-07-24 08:36:10

Local clock offset: -1.13 ms

Remote clock offset: 3.875 ms

Below is generated by plot.py at 2018-07-24 10:41:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.43 Mbit/s

95th percentile per-packet one-way delay: 63.443 ms

Loss rate: 0.99%

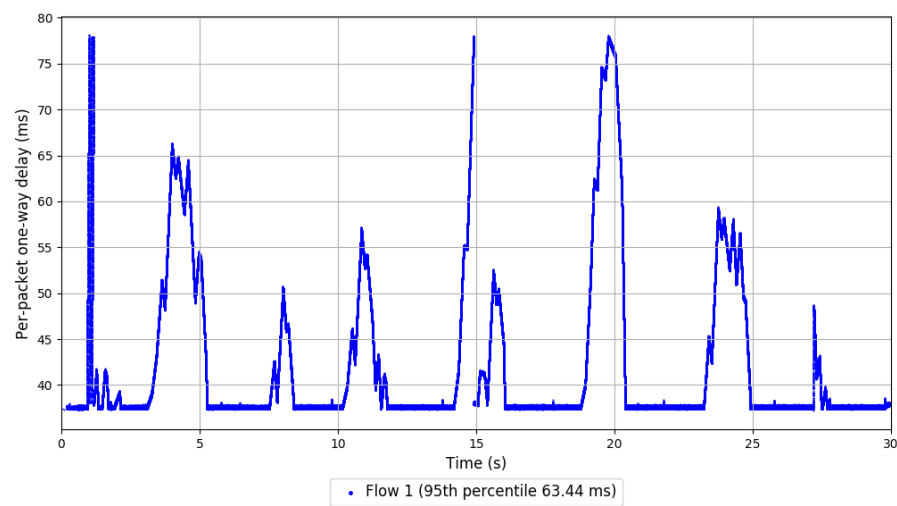
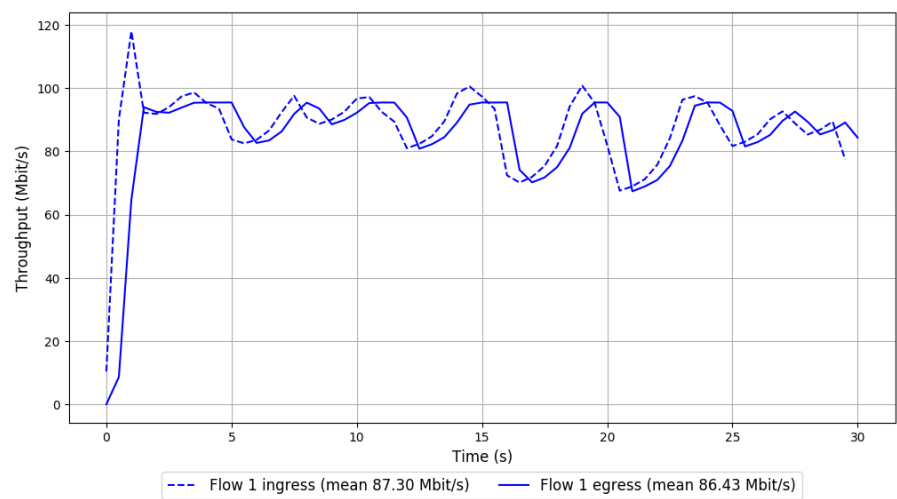
-- Flow 1:

Average throughput: 86.43 Mbit/s

95th percentile per-packet one-way delay: 63.443 ms

Loss rate: 0.99%

Run 6: Report of PCC-Expr — Data Link



Run 7: Statistics of PCC-Expr

Start at: 2018-07-24 08:57:57

End at: 2018-07-24 08:58:27

Local clock offset: -1.095 ms

Remote clock offset: 4.808 ms

Below is generated by plot.py at 2018-07-24 10:41:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.04 Mbit/s

95th percentile per-packet one-way delay: 68.405 ms

Loss rate: 1.13%

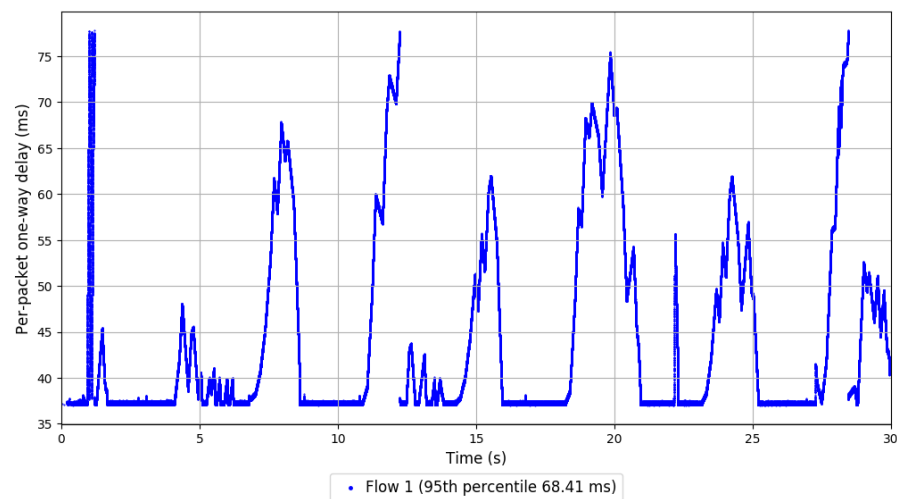
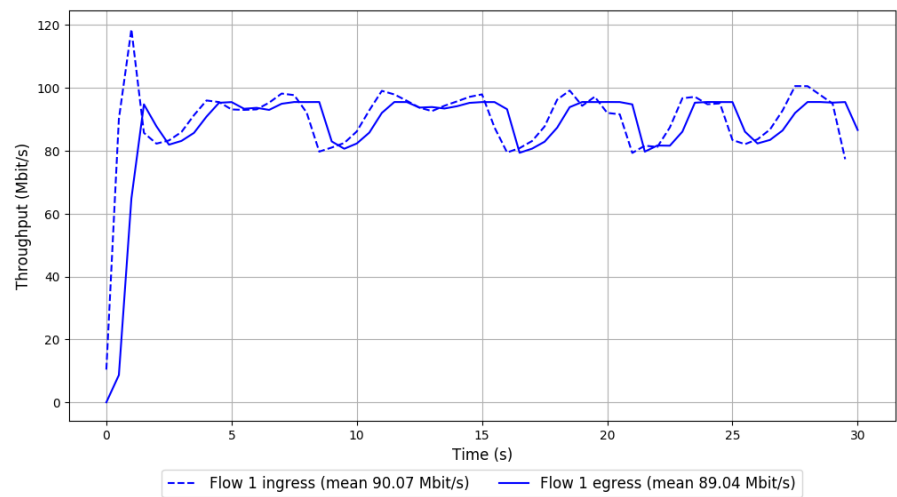
-- Flow 1:

Average throughput: 89.04 Mbit/s

95th percentile per-packet one-way delay: 68.405 ms

Loss rate: 1.13%

Run 7: Report of PCC-Expr — Data Link



Run 8: Statistics of PCC-Expr

Start at: 2018-07-24 09:20:13

End at: 2018-07-24 09:20:43

Local clock offset: -0.316 ms

Remote clock offset: 5.36 ms

Below is generated by plot.py at 2018-07-24 10:41:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.35 Mbit/s

95th percentile per-packet one-way delay: 63.684 ms

Loss rate: 1.42%

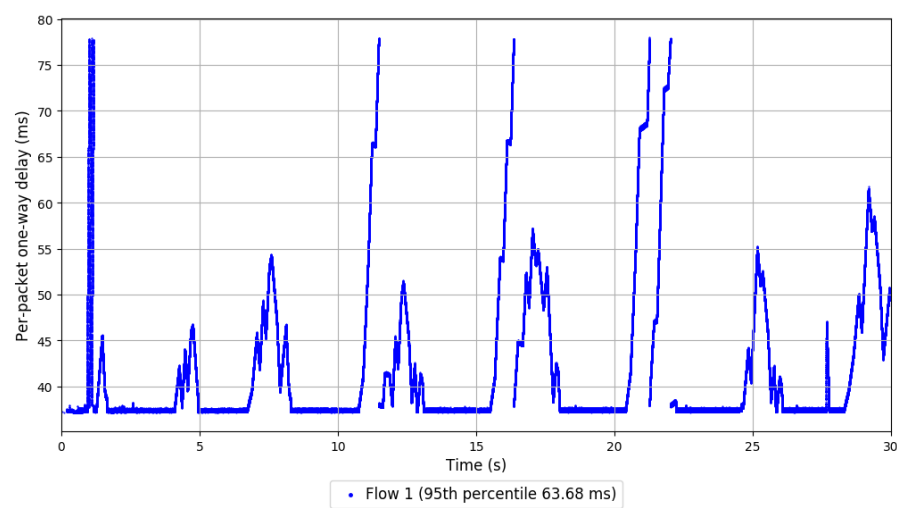
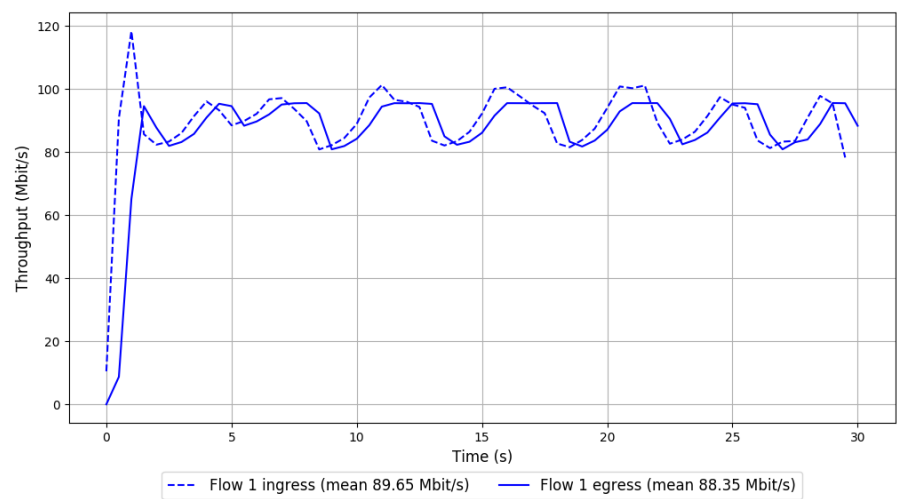
-- Flow 1:

Average throughput: 88.35 Mbit/s

95th percentile per-packet one-way delay: 63.684 ms

Loss rate: 1.42%

Run 8: Report of PCC-Expr — Data Link



Run 9: Statistics of PCC-Expr

Start at: 2018-07-24 09:42:26

End at: 2018-07-24 09:42:56

Local clock offset: 0.824 ms

Remote clock offset: 4.248 ms

Below is generated by plot.py at 2018-07-24 10:42:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.52 Mbit/s

95th percentile per-packet one-way delay: 62.248 ms

Loss rate: 1.16%

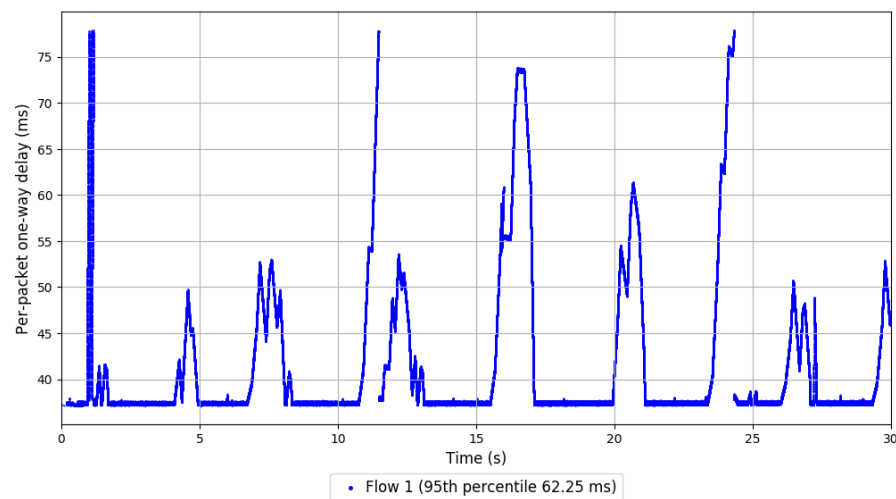
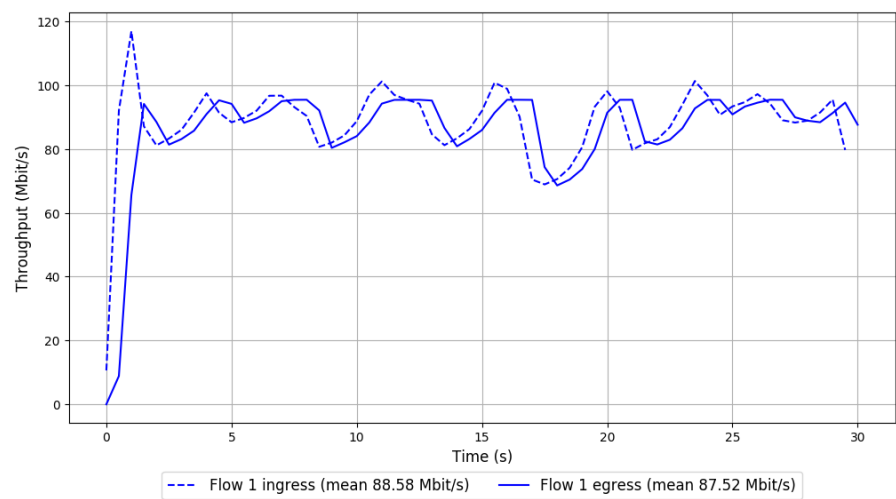
-- Flow 1:

Average throughput: 87.52 Mbit/s

95th percentile per-packet one-way delay: 62.248 ms

Loss rate: 1.16%

Run 9: Report of PCC-Expr — Data Link



Run 10: Statistics of PCC-Expr

Start at: 2018-07-24 10:04:40

End at: 2018-07-24 10:05:10

Local clock offset: 1.383 ms

Remote clock offset: 5.037 ms

Below is generated by plot.py at 2018-07-24 10:43:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.92 Mbit/s

95th percentile per-packet one-way delay: 61.102 ms

Loss rate: 0.68%

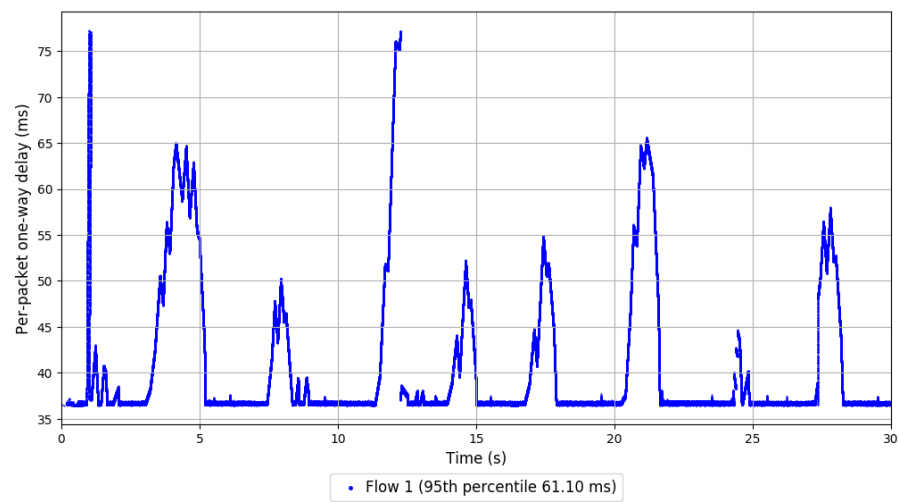
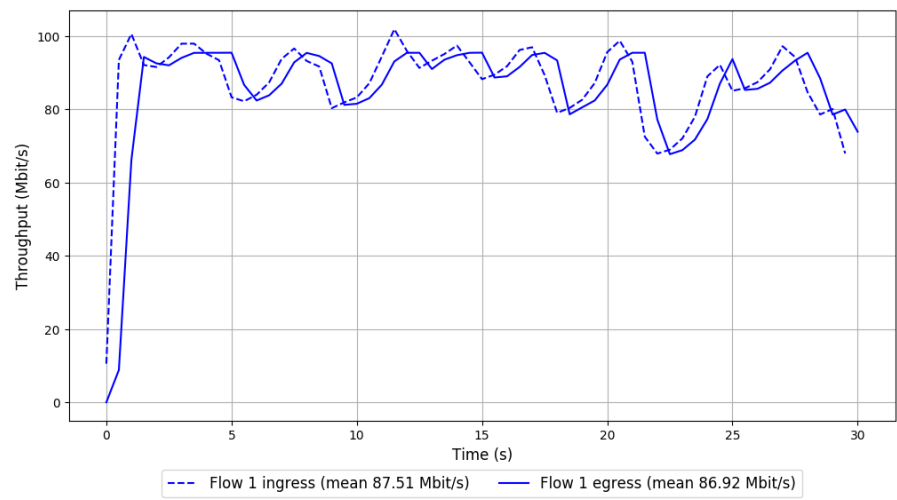
-- Flow 1:

Average throughput: 86.92 Mbit/s

95th percentile per-packet one-way delay: 61.102 ms

Loss rate: 0.68%

Run 10: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

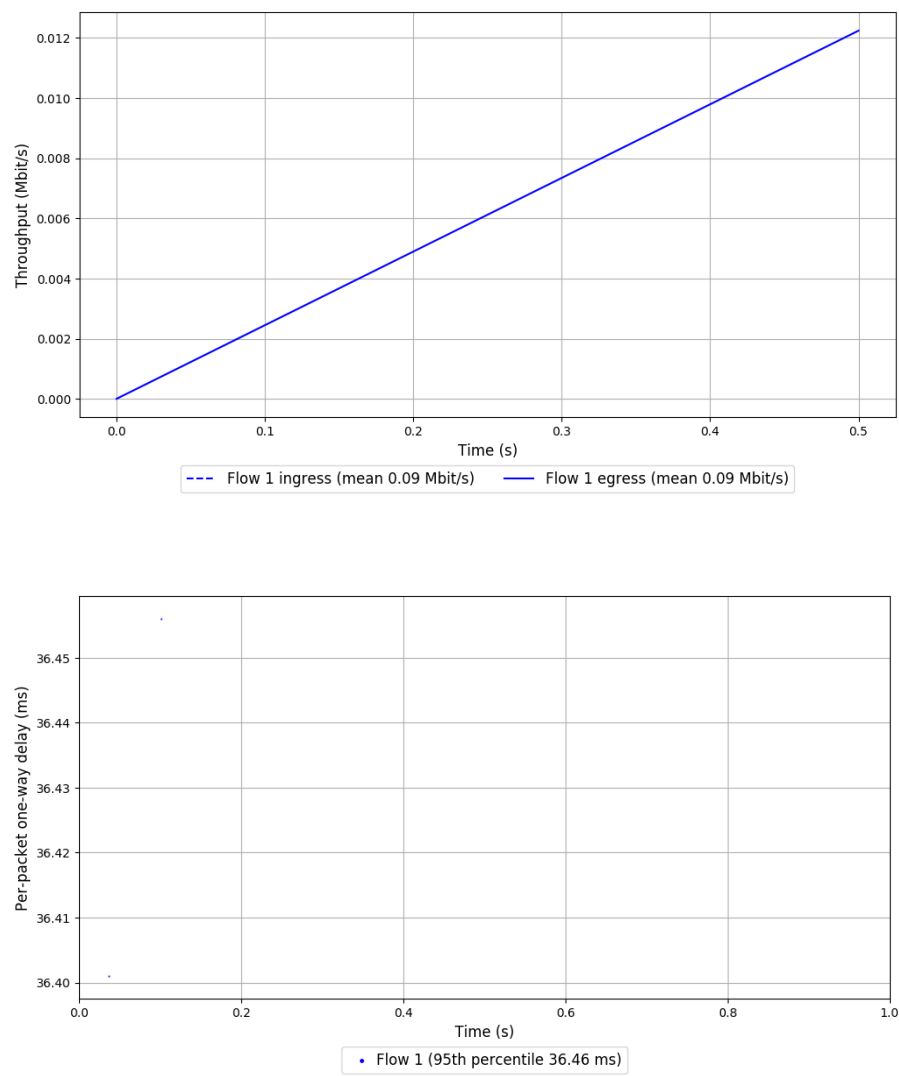
Start at: 2018-07-24 06:46:58

End at: 2018-07-24 06:47:28

Local clock offset: -12.803 ms

Remote clock offset: 4.34 ms

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-07-24 07:09:06

End at: 2018-07-24 07:09:36

Local clock offset: -8.768 ms

Remote clock offset: 4.452 ms

Below is generated by plot.py at 2018-07-24 10:43:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.13 Mbit/s

95th percentile per-packet one-way delay: 72.140 ms

Loss rate: 1.83%

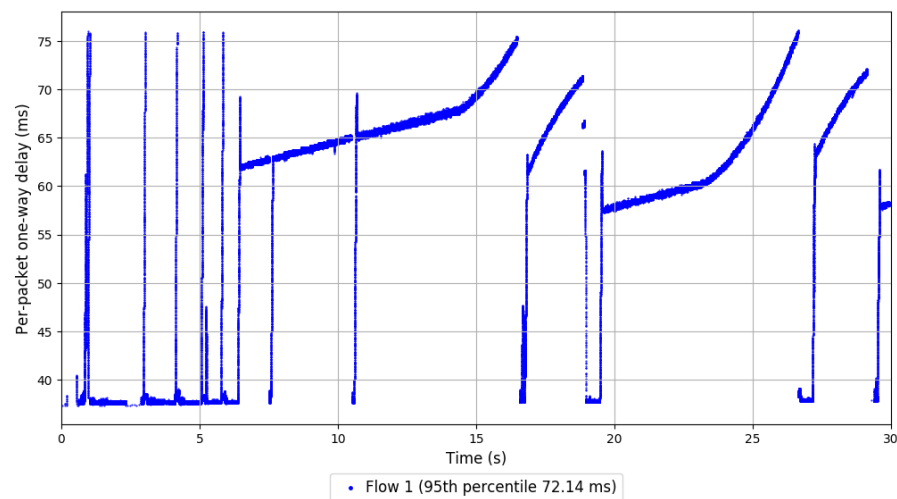
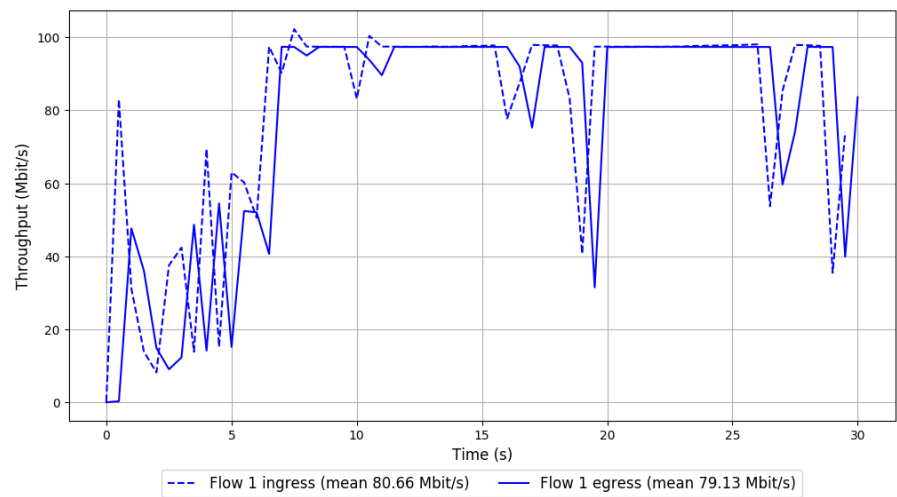
-- Flow 1:

Average throughput: 79.13 Mbit/s

95th percentile per-packet one-way delay: 72.140 ms

Loss rate: 1.83%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-07-24 07:31:25

End at: 2018-07-24 07:31:55

Local clock offset: -8.258 ms

Remote clock offset: 2.26 ms

Below is generated by plot.py at 2018-07-24 10:43:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.15 Mbit/s

95th percentile per-packet one-way delay: 70.958 ms

Loss rate: 0.87%

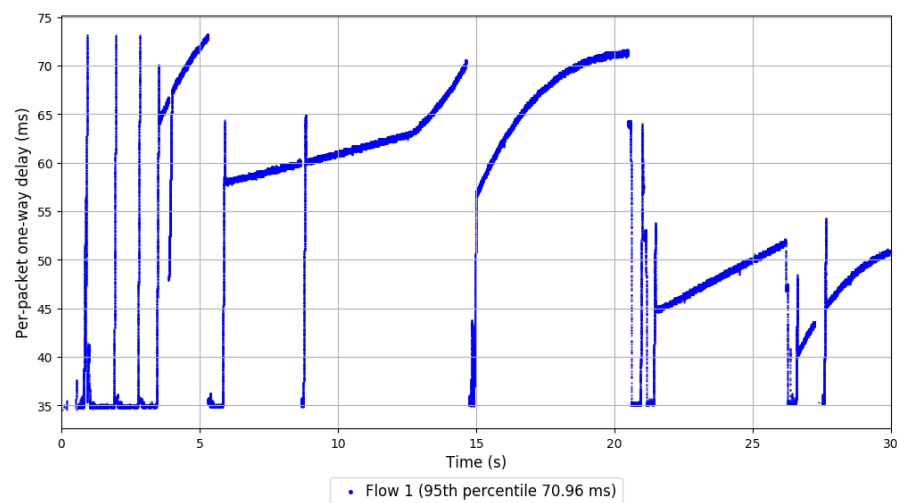
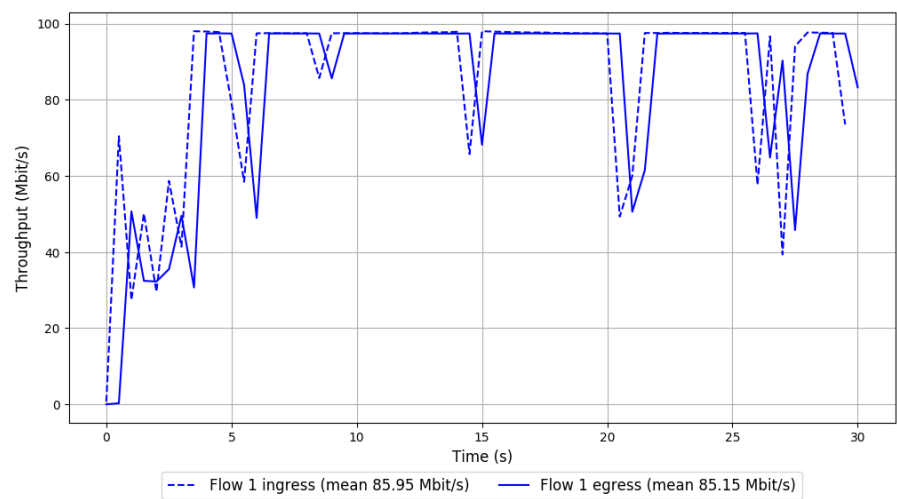
-- Flow 1:

Average throughput: 85.15 Mbit/s

95th percentile per-packet one-way delay: 70.958 ms

Loss rate: 0.87%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-07-24 07:53:42

End at: 2018-07-24 07:54:12

Local clock offset: -3.158 ms

Remote clock offset: 1.659 ms

Below is generated by plot.py at 2018-07-24 10:43:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.63 Mbit/s

95th percentile per-packet one-way delay: 70.685 ms

Loss rate: 1.99%

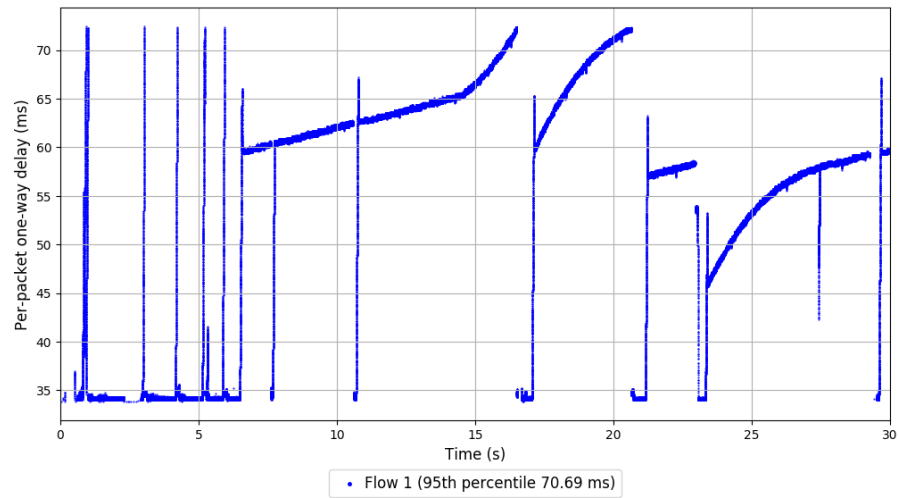
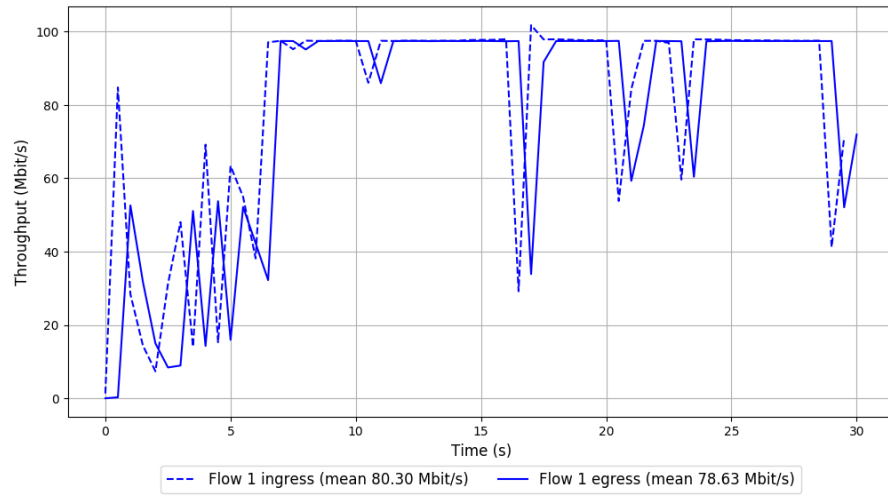
-- Flow 1:

Average throughput: 78.63 Mbit/s

95th percentile per-packet one-way delay: 70.685 ms

Loss rate: 1.99%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-07-24 08:16:00

End at: 2018-07-24 08:16:30

Local clock offset: -1.028 ms

Remote clock offset: 3.867 ms

Below is generated by plot.py at 2018-07-24 10:43:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.44 Mbit/s

95th percentile per-packet one-way delay: 72.816 ms

Loss rate: 1.85%

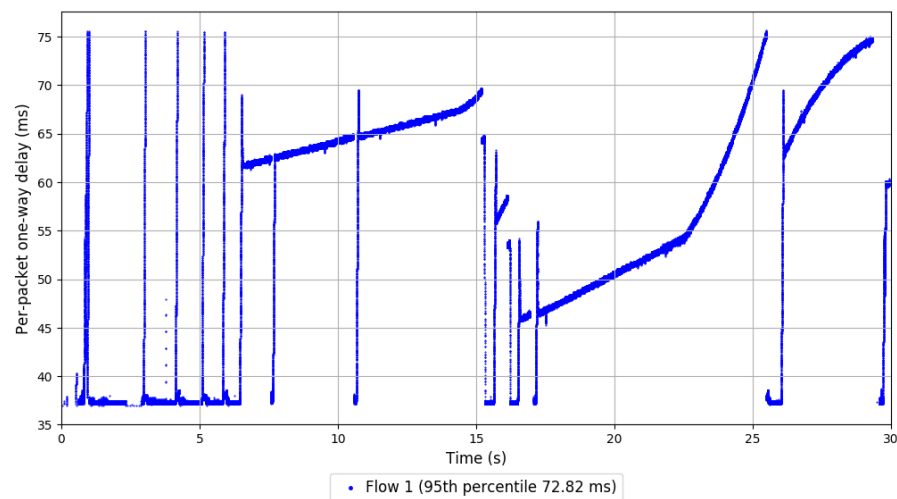
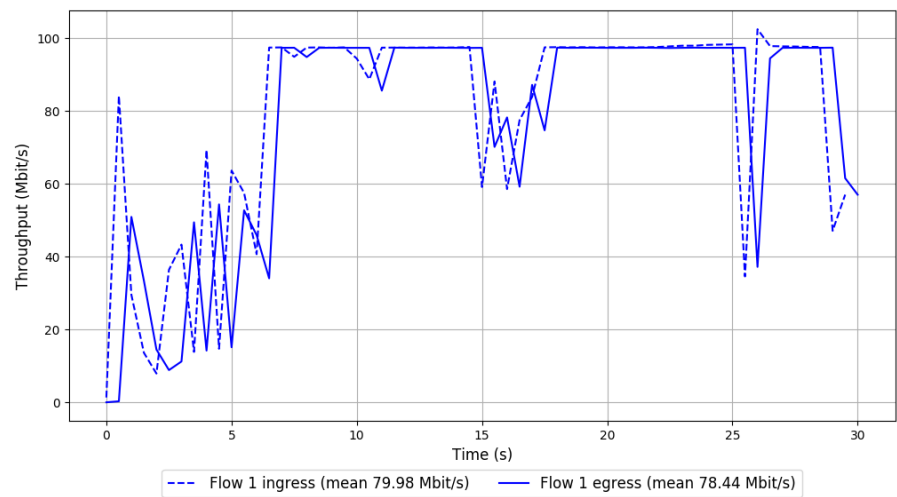
-- Flow 1:

Average throughput: 78.44 Mbit/s

95th percentile per-packet one-way delay: 72.816 ms

Loss rate: 1.85%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-07-24 08:38:21

End at: 2018-07-24 08:38:51

Local clock offset: -0.842 ms

Remote clock offset: 3.91 ms

Below is generated by plot.py at 2018-07-24 10:43:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.78 Mbit/s

95th percentile per-packet one-way delay: 73.631 ms

Loss rate: 0.82%

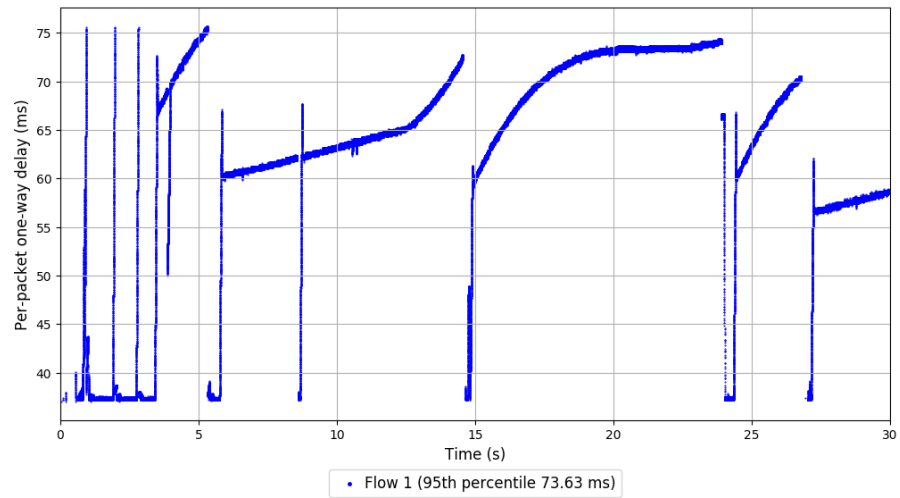
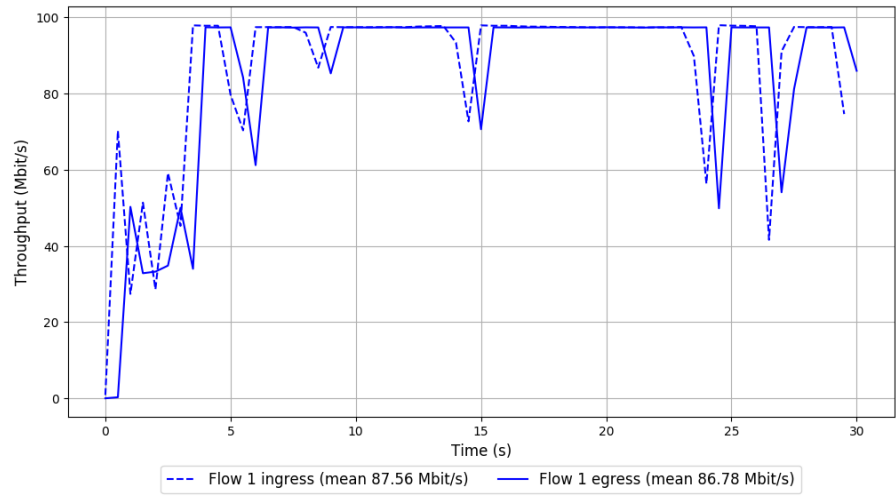
-- Flow 1:

Average throughput: 86.78 Mbit/s

95th percentile per-packet one-way delay: 73.631 ms

Loss rate: 0.82%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-07-24 09:00:37

End at: 2018-07-24 09:01:07

Local clock offset: -1.312 ms

Remote clock offset: 4.894 ms

Below is generated by plot.py at 2018-07-24 10:43:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.05 Mbit/s

95th percentile per-packet one-way delay: 69.097 ms

Loss rate: 1.75%

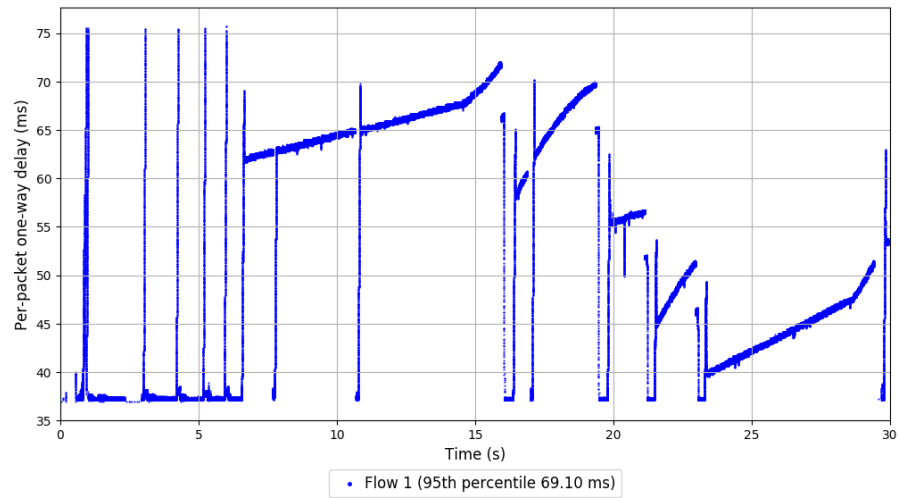
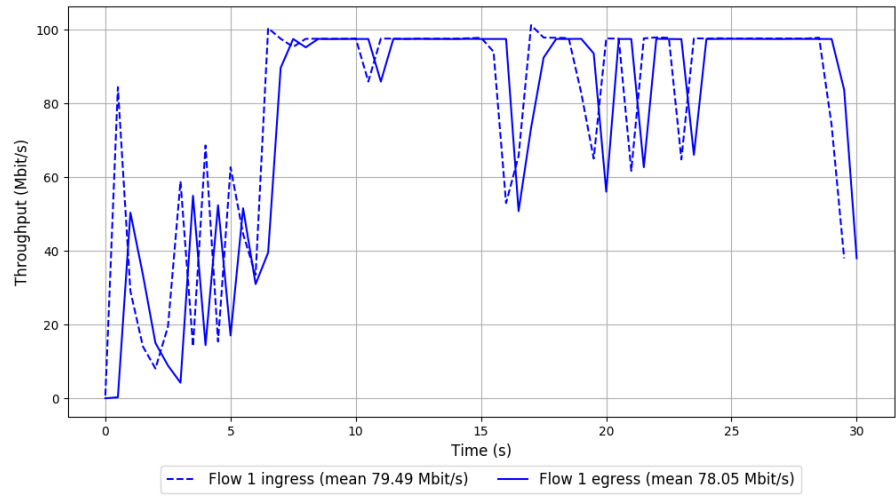
-- Flow 1:

Average throughput: 78.05 Mbit/s

95th percentile per-packet one-way delay: 69.097 ms

Loss rate: 1.75%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-07-24 09:22:53

End at: 2018-07-24 09:23:23

Local clock offset: -0.356 ms

Remote clock offset: 5.071 ms

Below is generated by plot.py at 2018-07-24 10:43:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.60 Mbit/s

95th percentile per-packet one-way delay: 74.500 ms

Loss rate: 2.74%

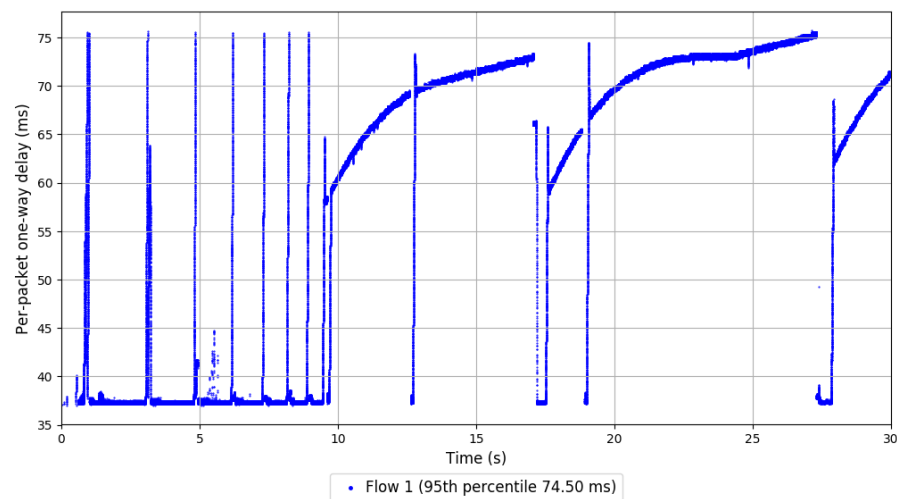
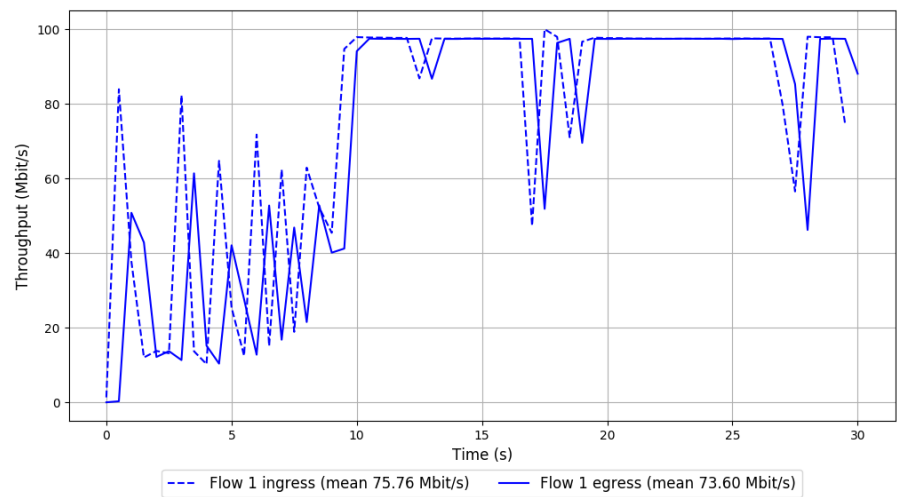
-- Flow 1:

Average throughput: 73.60 Mbit/s

95th percentile per-packet one-way delay: 74.500 ms

Loss rate: 2.74%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-07-24 09:45:05

End at: 2018-07-24 09:45:35

Local clock offset: 0.868 ms

Remote clock offset: 4.212 ms

Below is generated by plot.py at 2018-07-24 10:43:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 80.08 Mbit/s

95th percentile per-packet one-way delay: 74.402 ms

Loss rate: 1.77%

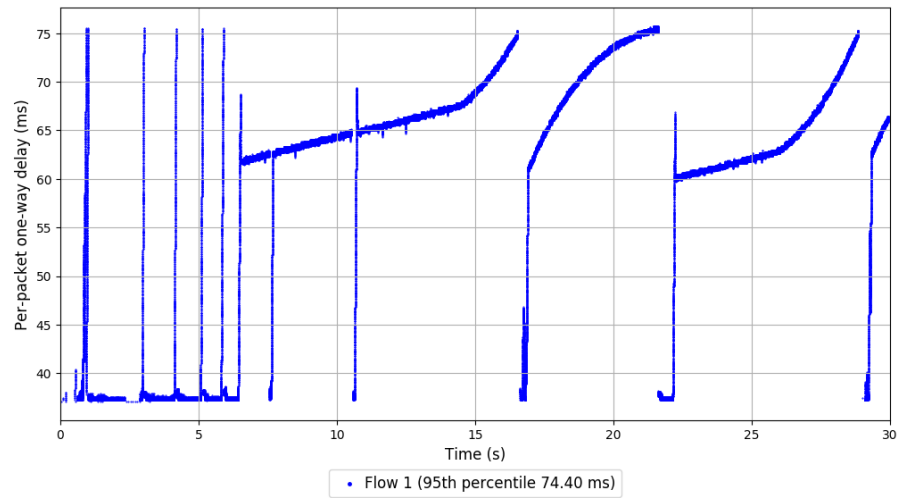
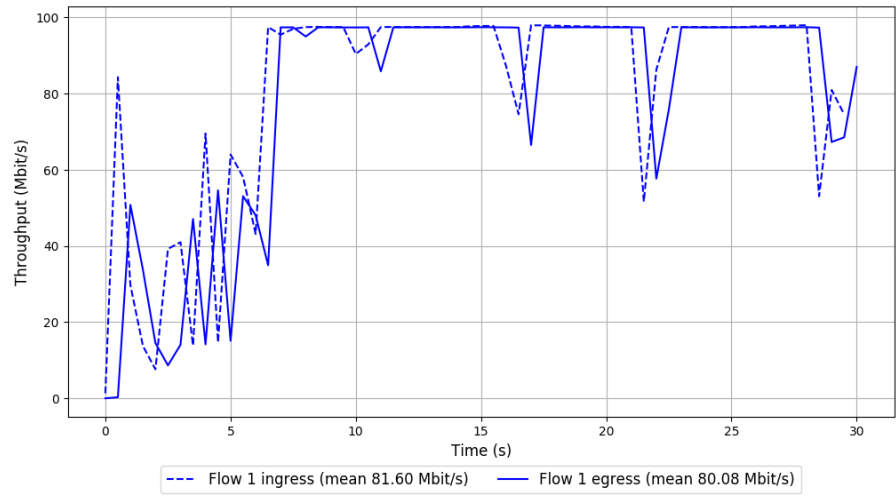
-- Flow 1:

Average throughput: 80.08 Mbit/s

95th percentile per-packet one-way delay: 74.402 ms

Loss rate: 1.77%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-07-24 10:07:20

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

Local clock offset: 1.464 ms

Remote clock offset: 5.085 ms

Below is generated by plot.py at 2018-07-24 10:43:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.12 Mbit/s

95th percentile per-packet one-way delay: 72.944 ms

Loss rate: 1.01%

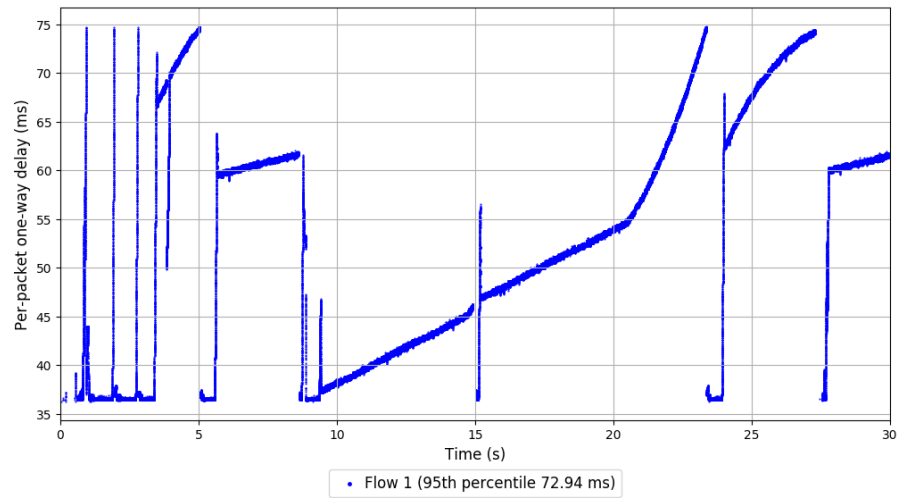
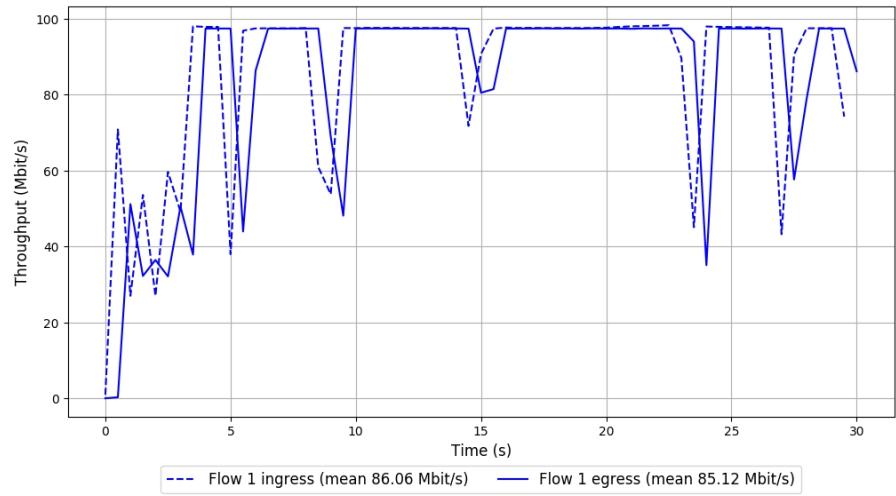
-- Flow 1:

Average throughput: 85.12 Mbit/s

95th percentile per-packet one-way delay: 72.944 ms

Loss rate: 1.01%

Run 10: Report of QUIC Cubic — Data Link

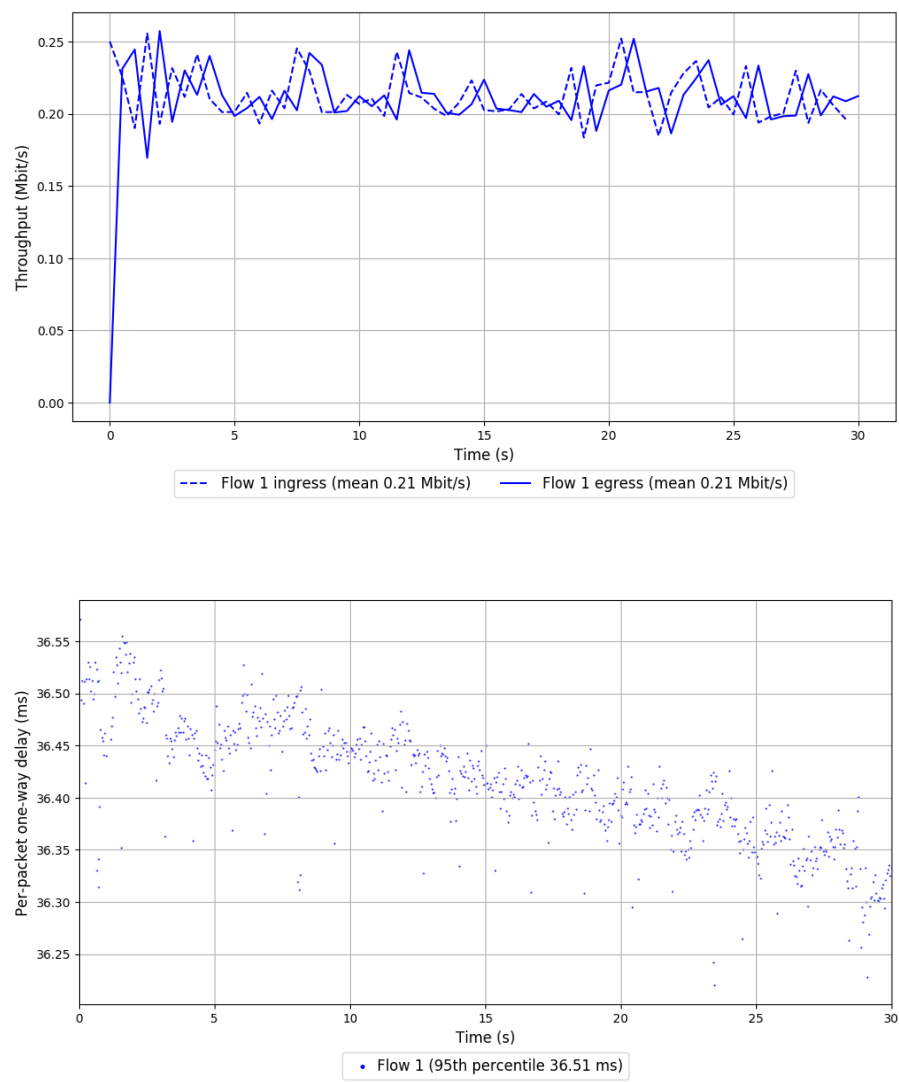


```
Run 1: Statistics of SCReAM

Start at: 2018-07-24 06:54:46
End at: 2018-07-24 06:55:16
Local clock offset: -14.037 ms
Remote clock offset: 4.395 ms

# Below is generated by plot.py at 2018-07-24 10:43:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 36.506 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 36.506 ms
Loss rate: 0.00%
```


Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2018-07-24 07:17:04

End at: 2018-07-24 07:17:34

Local clock offset: -6.45 ms

Remote clock offset: 4.451 ms

Below is generated by plot.py at 2018-07-24 10:43:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 37.378 ms

Loss rate: 0.00%

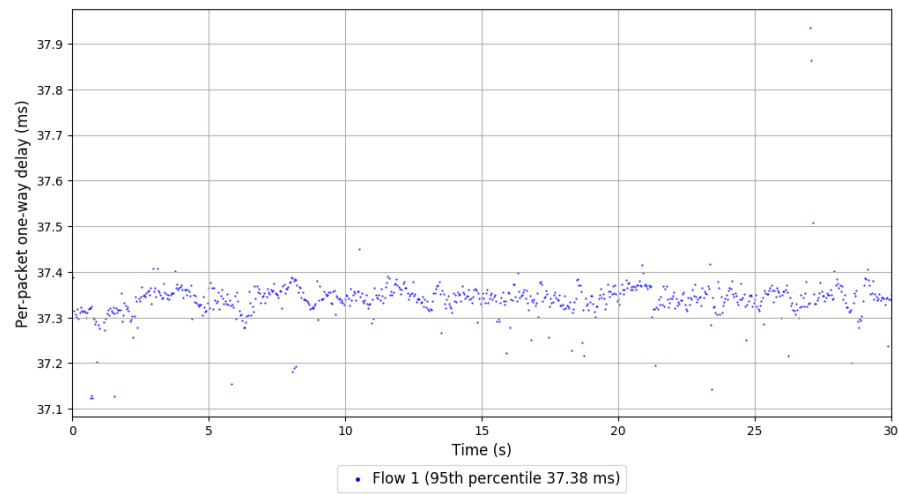
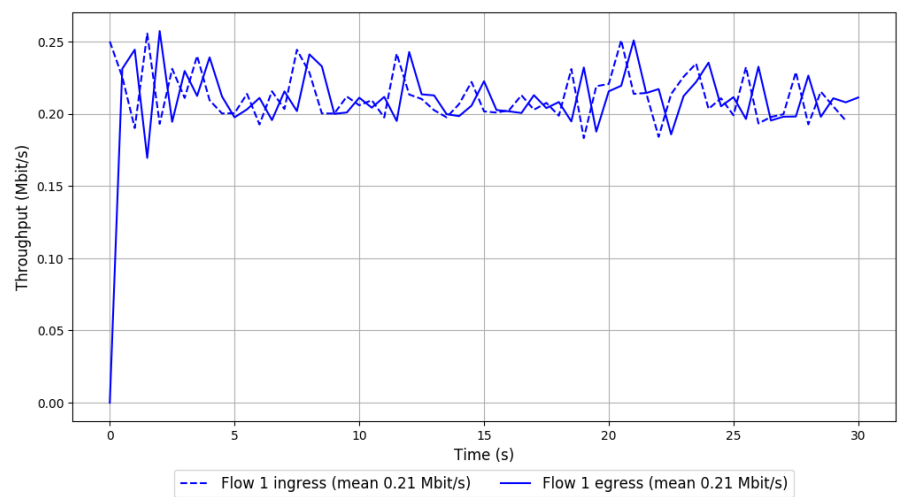
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 37.378 ms

Loss rate: 0.00%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-07-24 07:39:19

End at: 2018-07-24 07:39:49

Local clock offset: -4.097 ms

Remote clock offset: 4.595 ms

Below is generated by plot.py at 2018-07-24 10:43:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 37.732 ms

Loss rate: 0.00%

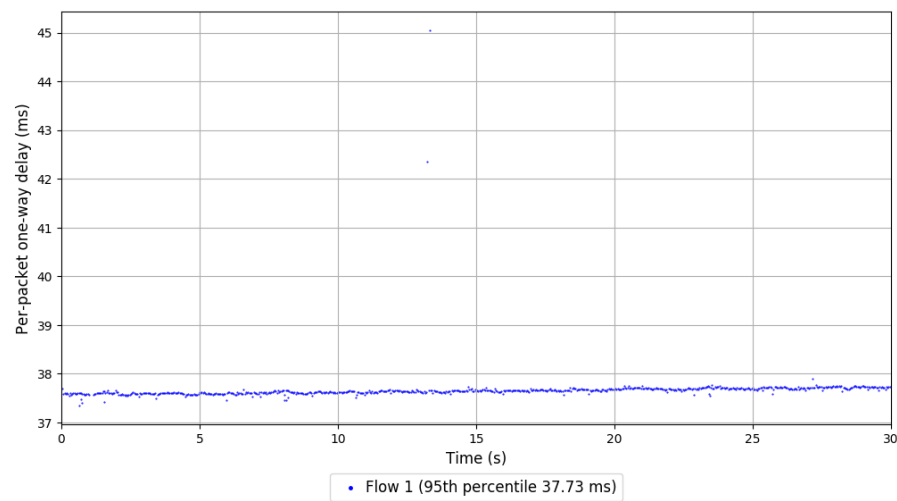
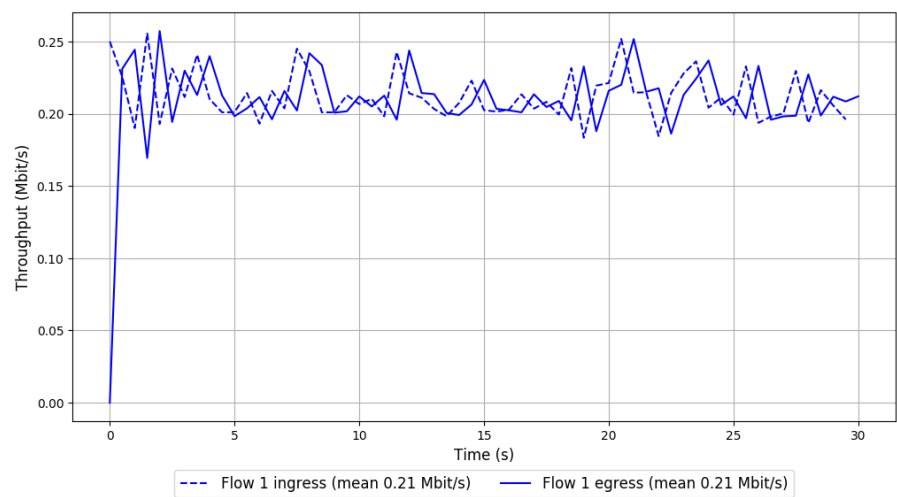
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 37.732 ms

Loss rate: 0.00%

Run 3: Report of SCRaM — Data Link



Run 4: Statistics of SCReAM

Start at: 2018-07-24 08:01:37

End at: 2018-07-24 08:02:07

Local clock offset: -3.989 ms

Remote clock offset: 3.932 ms

Below is generated by plot.py at 2018-07-24 10:43:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 37.679 ms

Loss rate: 0.00%

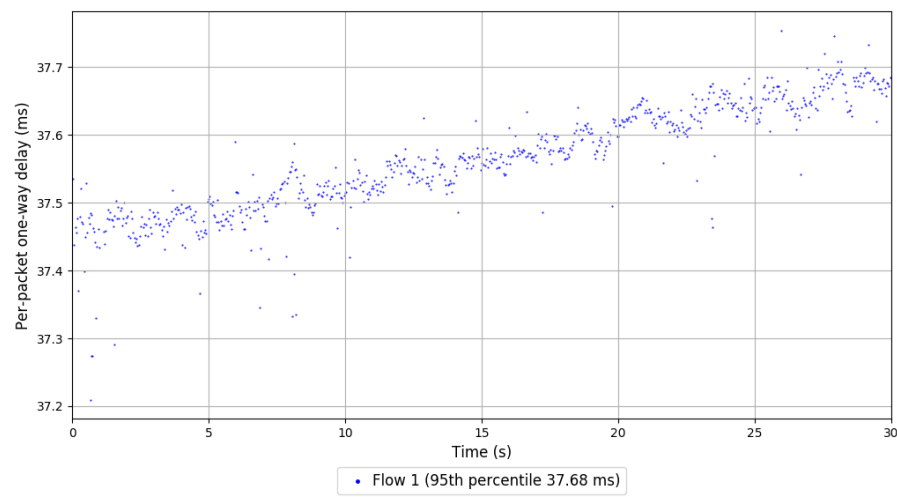
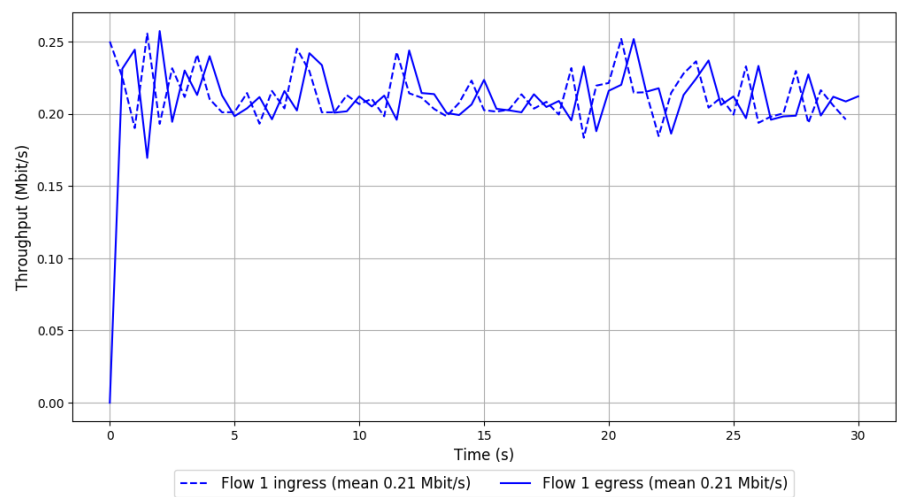
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 37.679 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-07-24 08:23:56

End at: 2018-07-24 08:24:26

Local clock offset: -1.183 ms

Remote clock offset: 1.557 ms

Below is generated by plot.py at 2018-07-24 10:43:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 35.027 ms

Loss rate: 0.00%

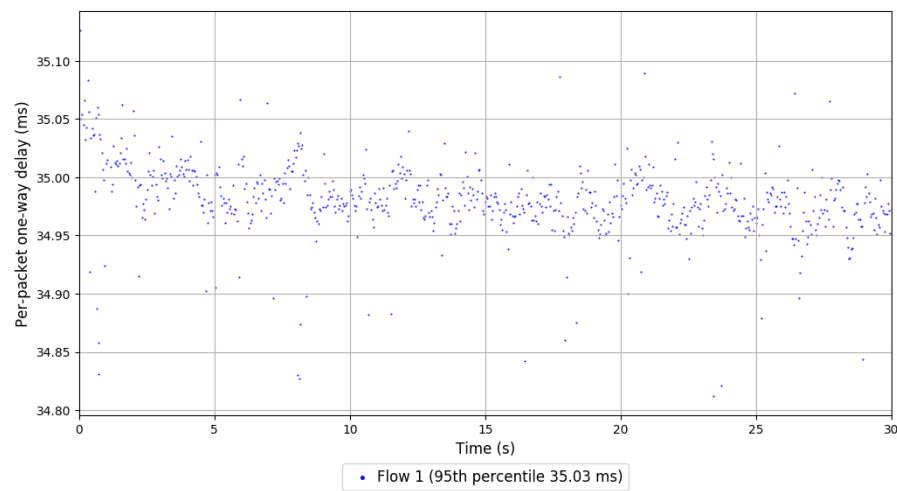
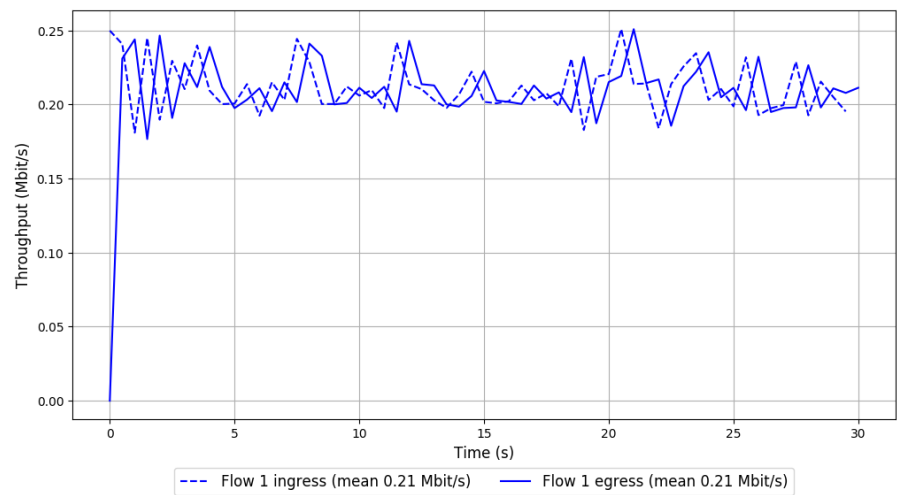
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 35.027 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-07-24 08:46:15

End at: 2018-07-24 08:46:45

Local clock offset: -0.776 ms

Remote clock offset: 1.56 ms

Below is generated by plot.py at 2018-07-24 10:43:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 35.037 ms

Loss rate: 0.00%

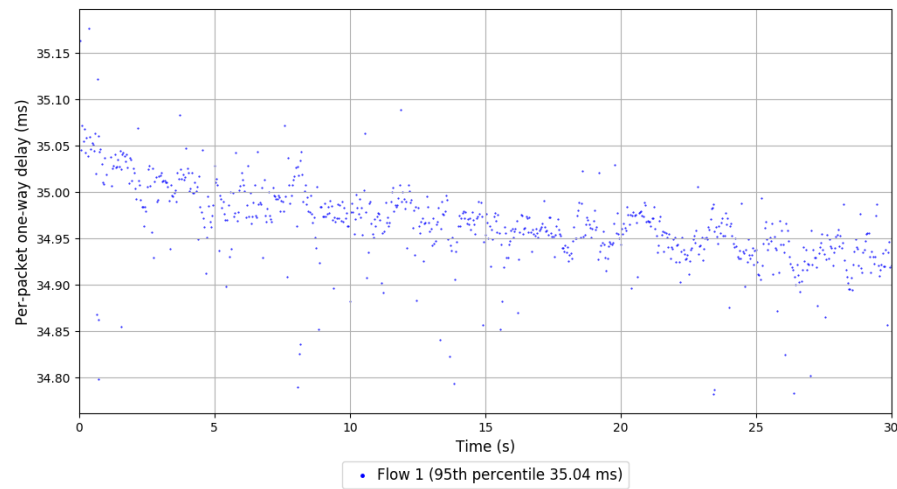
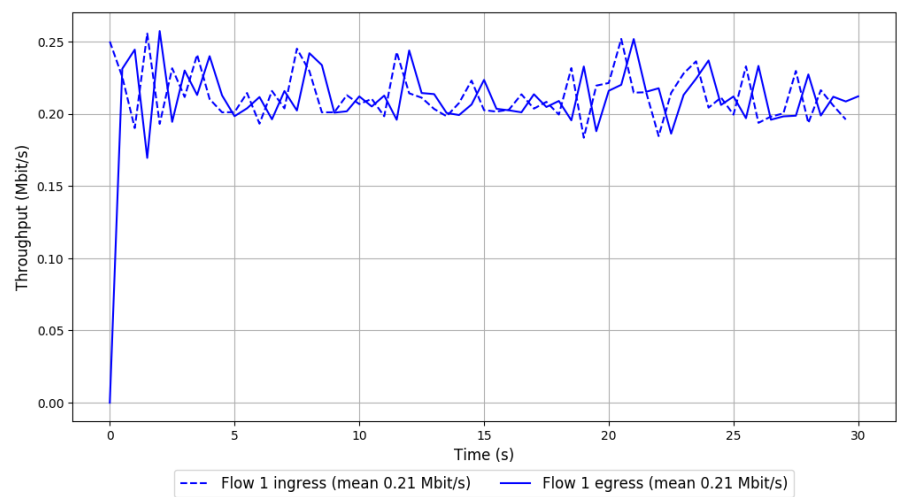
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 35.037 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2018-07-24 09:08:31

End at: 2018-07-24 09:09:01

Local clock offset: -0.572 ms

Remote clock offset: 2.781 ms

Below is generated by plot.py at 2018-07-24 10:43:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 35.004 ms

Loss rate: 0.00%

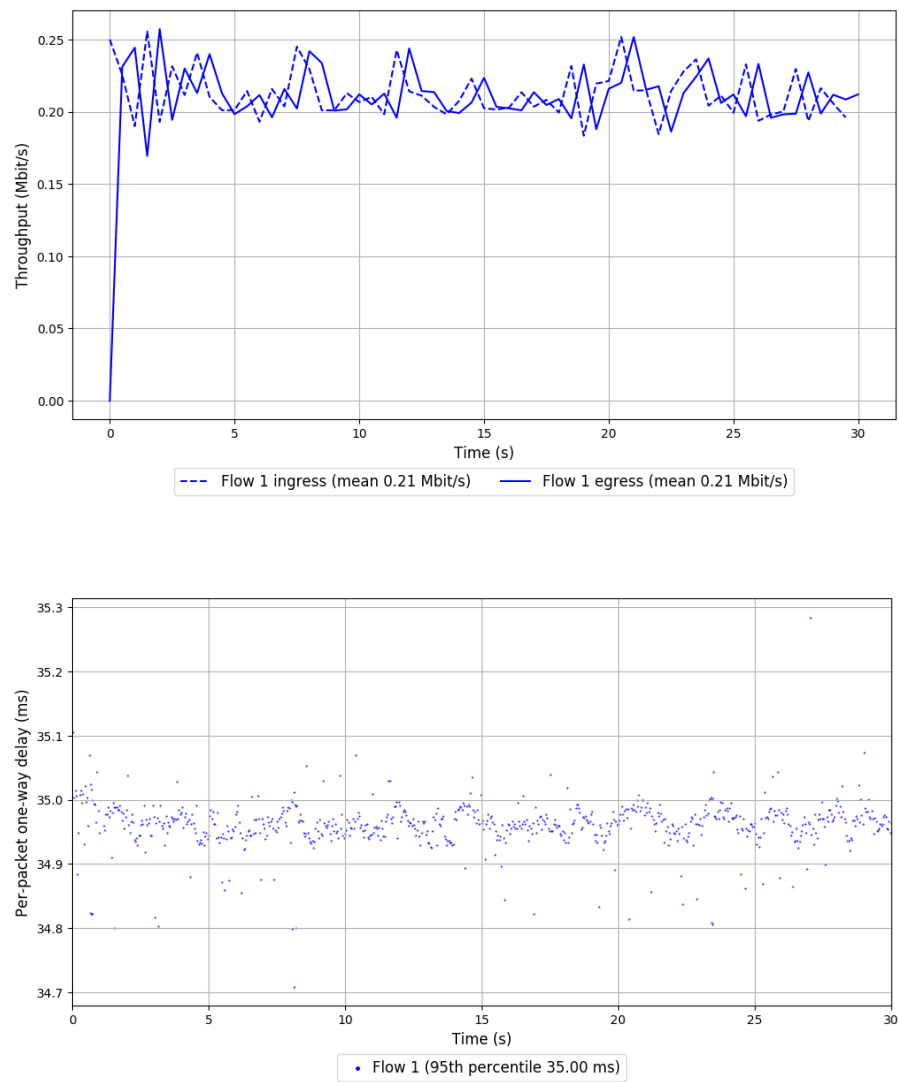
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 35.004 ms

Loss rate: 0.00%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-07-24 09:30:45

End at: 2018-07-24 09:31:15

Local clock offset: -0.495 ms

Remote clock offset: 2.24 ms

Below is generated by plot.py at 2018-07-24 10:43:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 35.024 ms

Loss rate: 0.00%

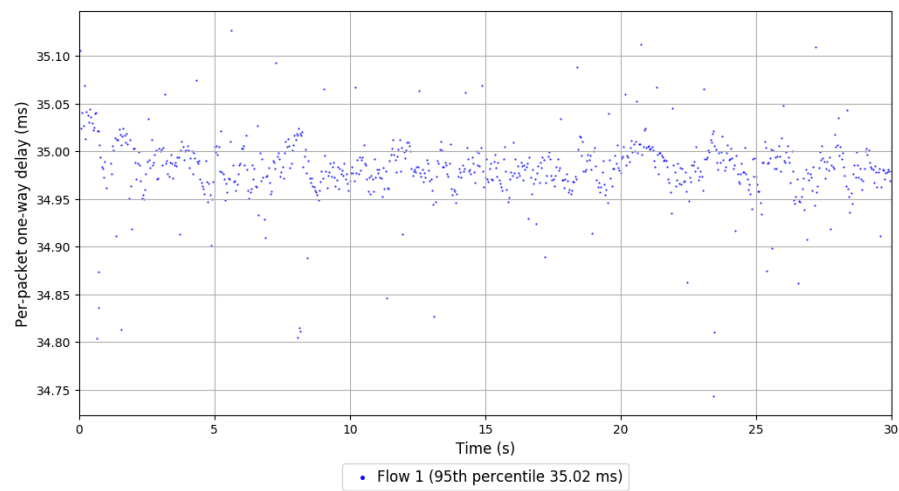
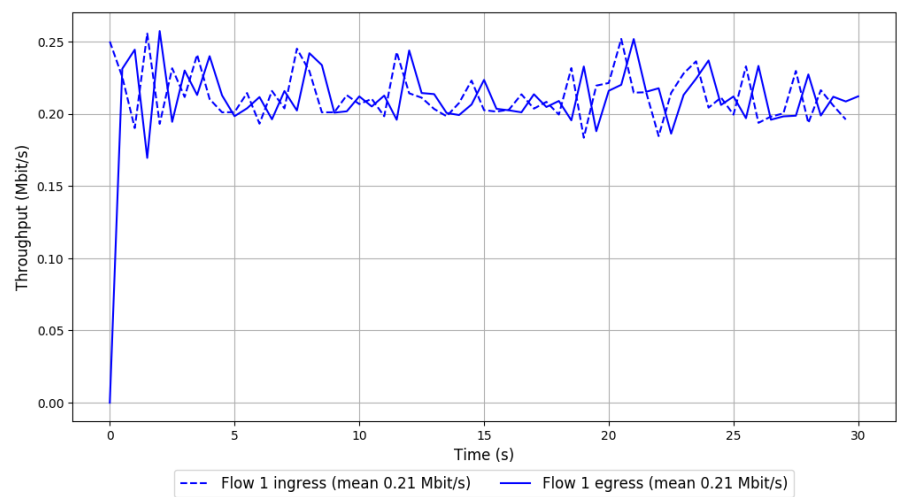
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 35.024 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-07-24 09:53:00

End at: 2018-07-24 09:53:30

Local clock offset: 1.216 ms

Remote clock offset: 4.12 ms

Below is generated by plot.py at 2018-07-24 10:43:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 37.346 ms

Loss rate: 0.00%

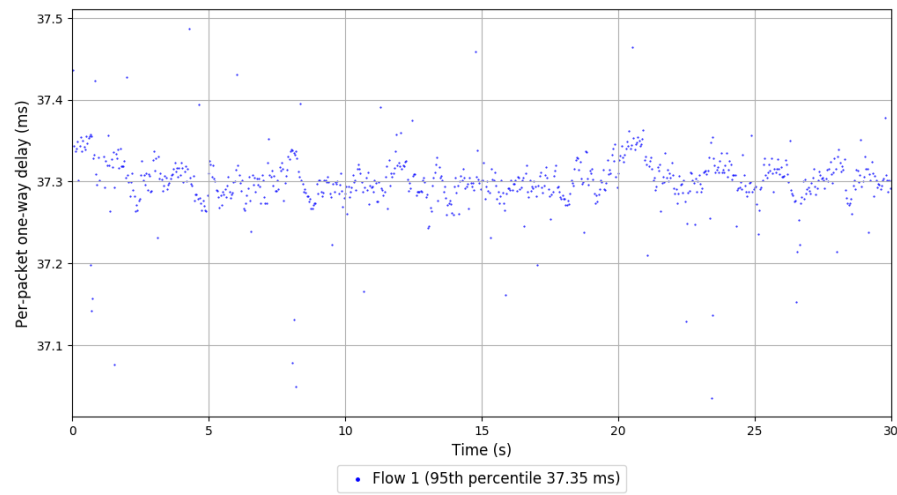
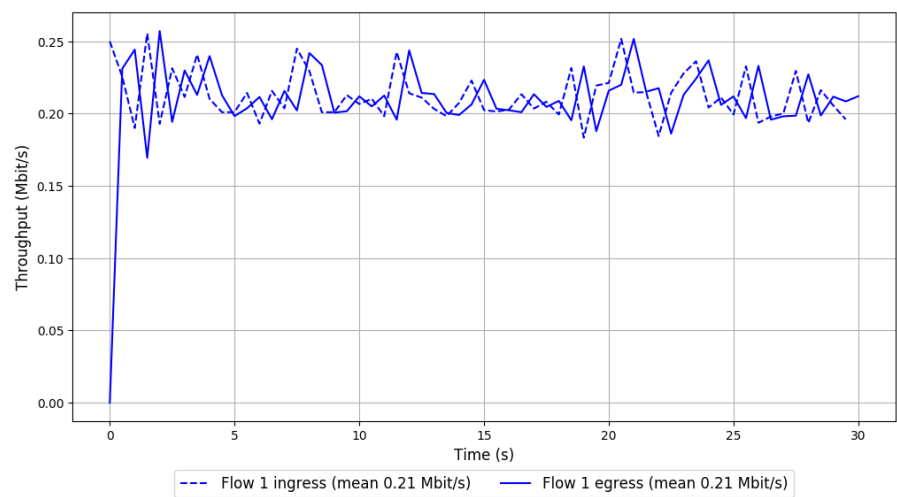
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 37.346 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SCReAM

Start at: 2018-07-24 10:15:12

End at: 2018-07-24 10:15:42

Local clock offset: 1.608 ms

Remote clock offset: 3.025 ms

Below is generated by plot.py at 2018-07-24 10:43:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 34.299 ms

Loss rate: 0.00%

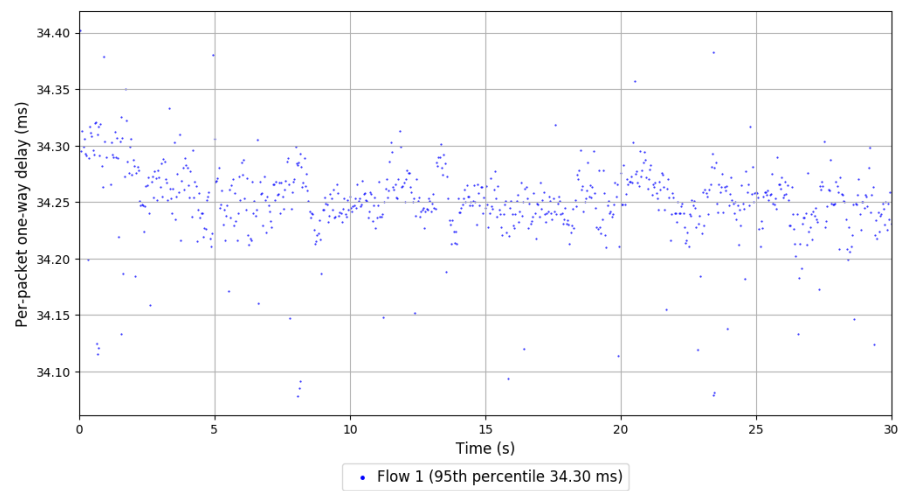
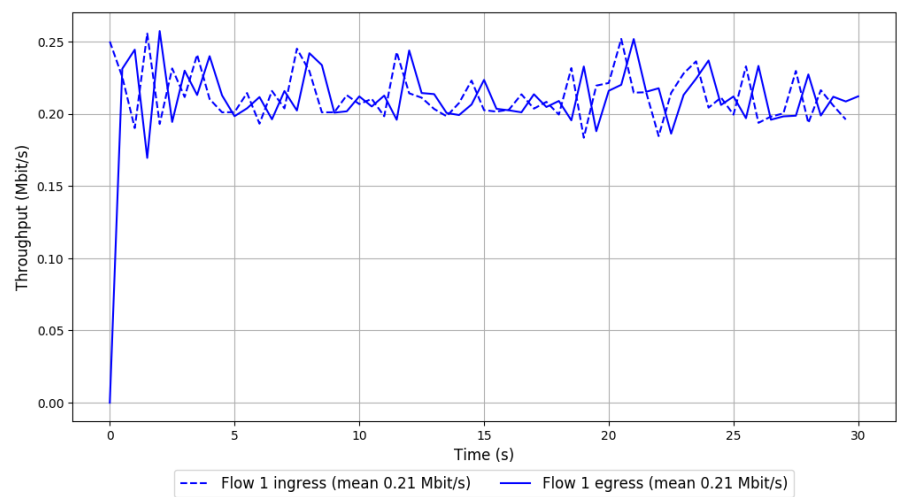
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 34.299 ms

Loss rate: 0.00%

Run 10: Report of SCReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2018-07-24 06:59:58

End at: 2018-07-24 07:00:28

Local clock offset: -16.01 ms

Remote clock offset: 2.037 ms

Below is generated by plot.py at 2018-07-24 10:43:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.06 Mbit/s

95th percentile per-packet one-way delay: 40.163 ms

Loss rate: 0.00%

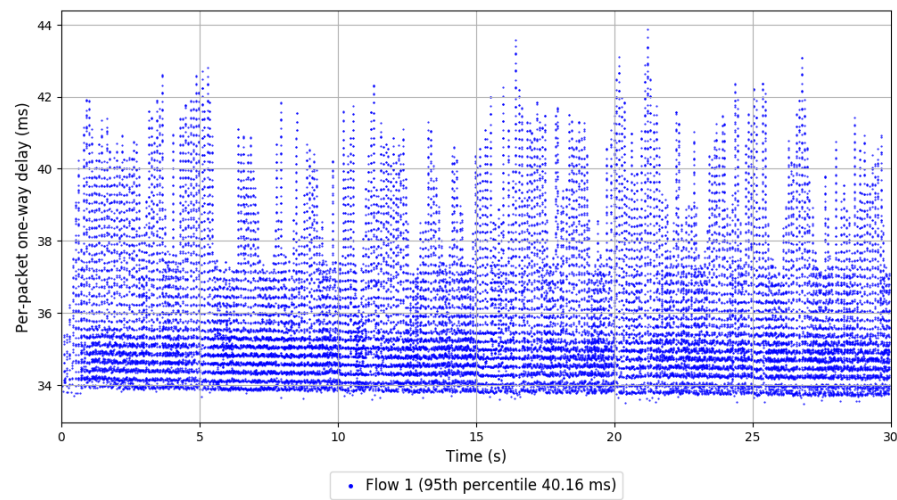
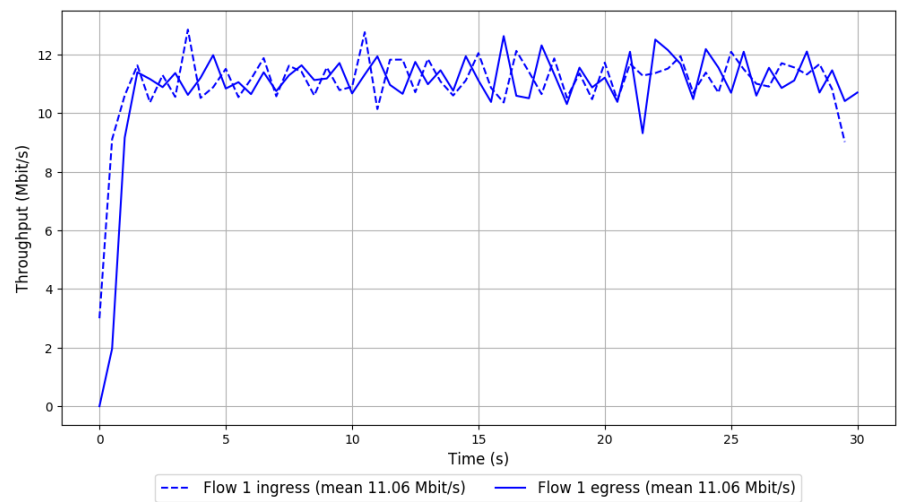
-- Flow 1:

Average throughput: 11.06 Mbit/s

95th percentile per-packet one-way delay: 40.163 ms

Loss rate: 0.00%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-07-24 07:22:16

End at: 2018-07-24 07:22:46

Local clock offset: -6.68 ms

Remote clock offset: 2.2 ms

Below is generated by plot.py at 2018-07-24 10:43:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 10.89 Mbit/s

95th percentile per-packet one-way delay: 41.030 ms

Loss rate: 0.00%

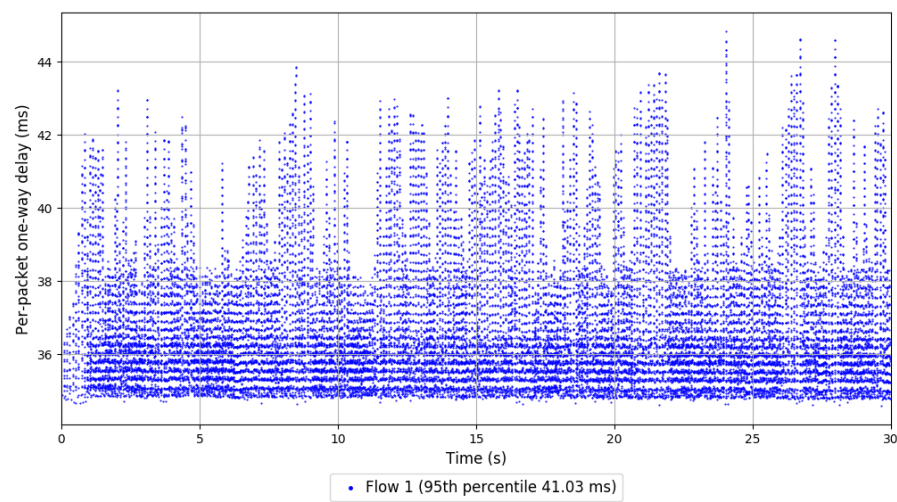
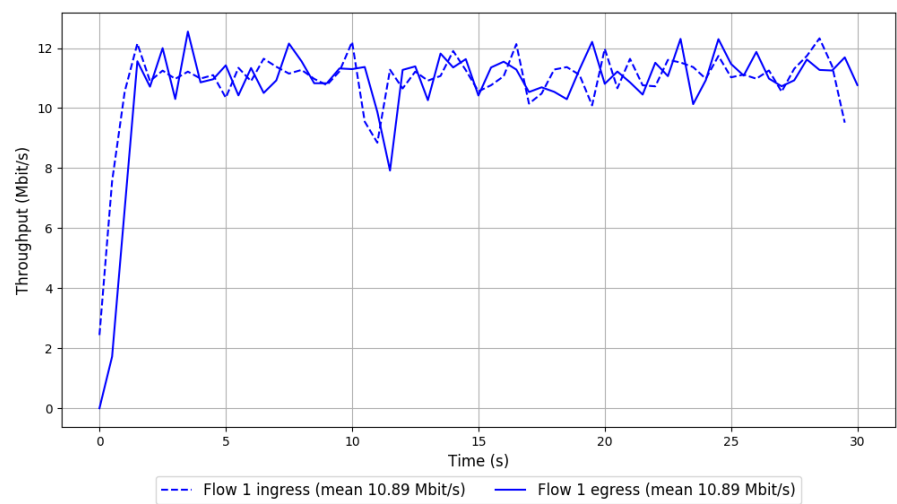
-- Flow 1:

Average throughput: 10.89 Mbit/s

95th percentile per-packet one-way delay: 41.030 ms

Loss rate: 0.00%

Run 2: Report of Sprout — Data Link

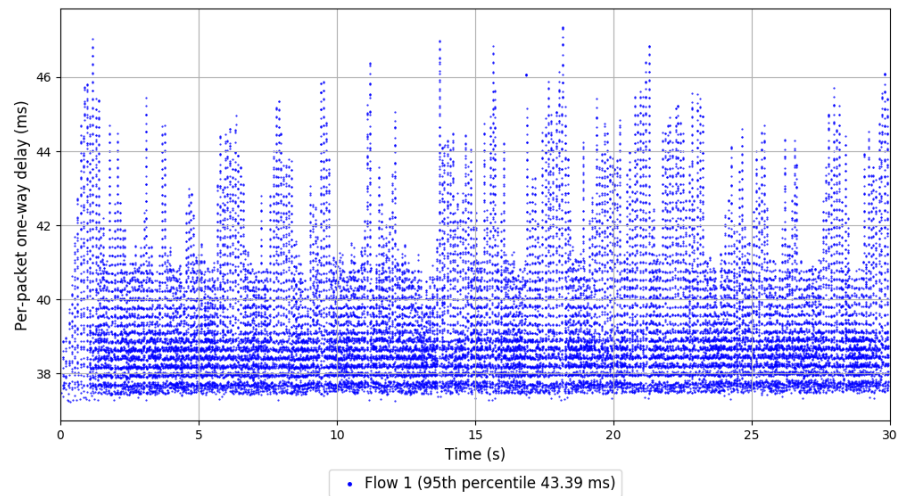
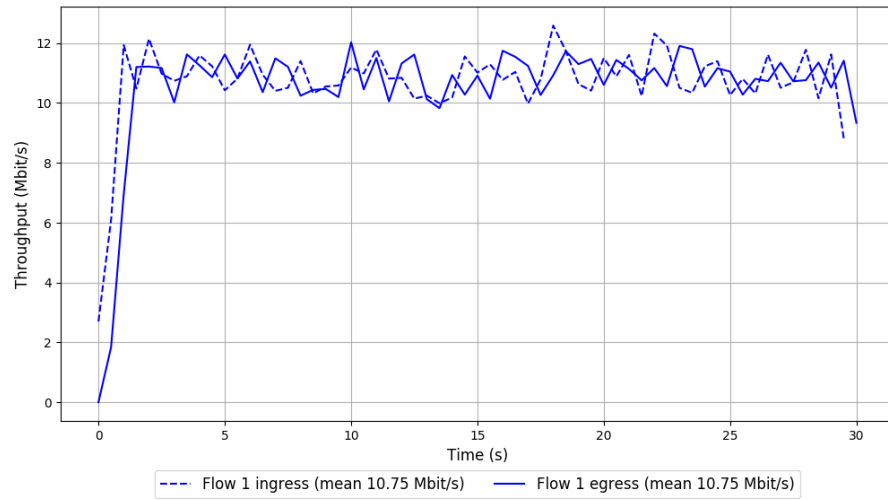


Run 3: Statistics of Sprout

Start at: 2018-07-24 07:44:31
End at: 2018-07-24 07:45:01
Local clock offset: -3.129 ms
Remote clock offset: 4.402 ms

Below is generated by plot.py at 2018-07-24 10:43:38
Datalink statistics
-- Total of 1 flow:
Average throughput: 10.75 Mbit/s
95th percentile per-packet one-way delay: 43.387 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 10.75 Mbit/s
95th percentile per-packet one-way delay: 43.387 ms
Loss rate: 0.00%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-07-24 08:06:51

End at: 2018-07-24 08:07:21

Local clock offset: -2.261 ms

Remote clock offset: 3.885 ms

Below is generated by plot.py at 2018-07-24 10:43:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 10.95 Mbit/s

95th percentile per-packet one-way delay: 42.571 ms

Loss rate: 0.00%

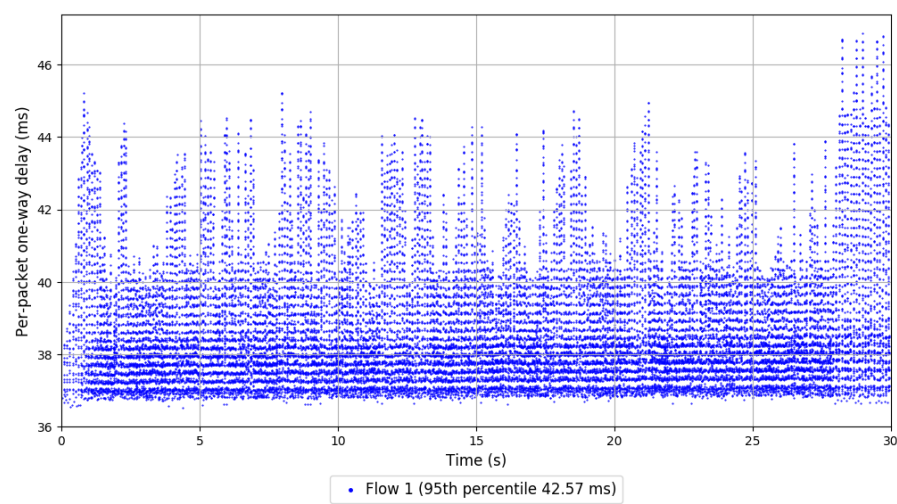
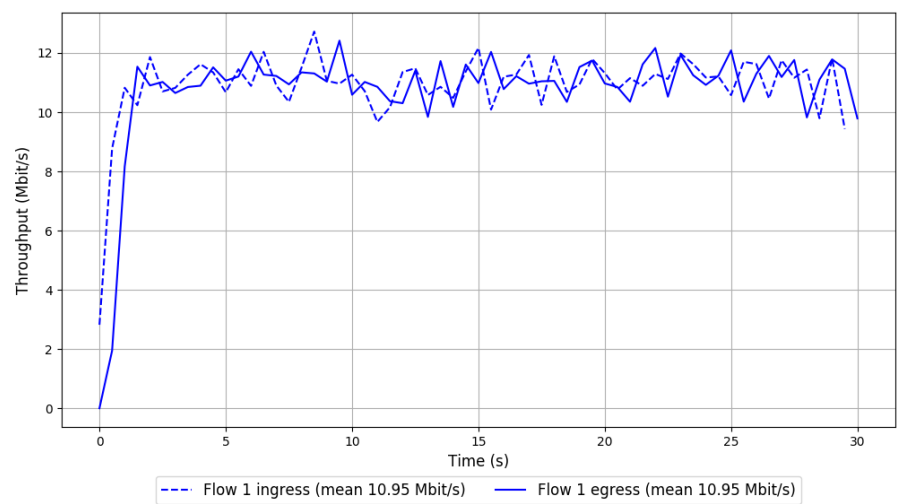
-- Flow 1:

Average throughput: 10.95 Mbit/s

95th percentile per-packet one-way delay: 42.571 ms

Loss rate: 0.00%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-07-24 08:29:09

End at: 2018-07-24 08:29:39

Local clock offset: -1.357 ms

Remote clock offset: 3.903 ms

Below is generated by plot.py at 2018-07-24 10:43:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 10.88 Mbit/s

95th percentile per-packet one-way delay: 43.162 ms

Loss rate: 0.00%

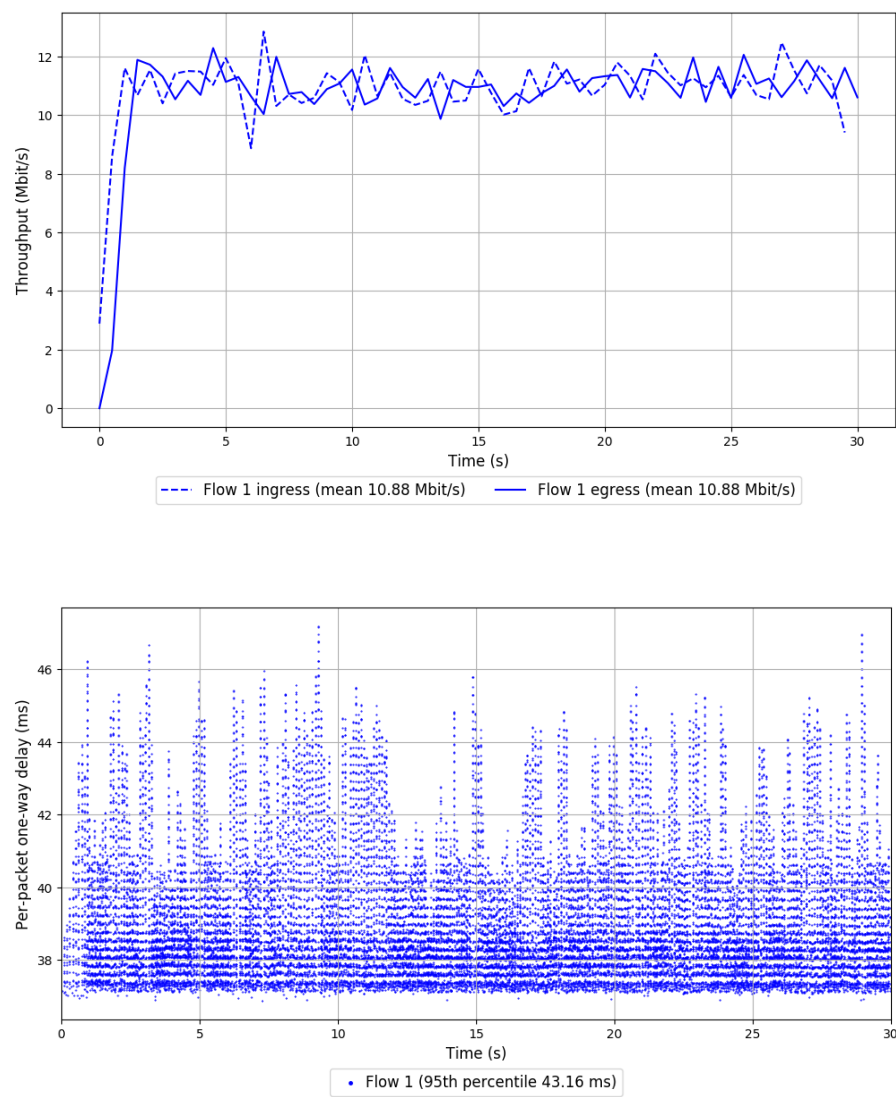
-- Flow 1:

Average throughput: 10.88 Mbit/s

95th percentile per-packet one-way delay: 43.162 ms

Loss rate: 0.00%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-07-24 08:51:27

End at: 2018-07-24 08:51:57

Local clock offset: -0.804 ms

Remote clock offset: 4.43 ms

Below is generated by plot.py at 2018-07-24 10:43:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 10.81 Mbit/s

95th percentile per-packet one-way delay: 43.190 ms

Loss rate: 0.00%

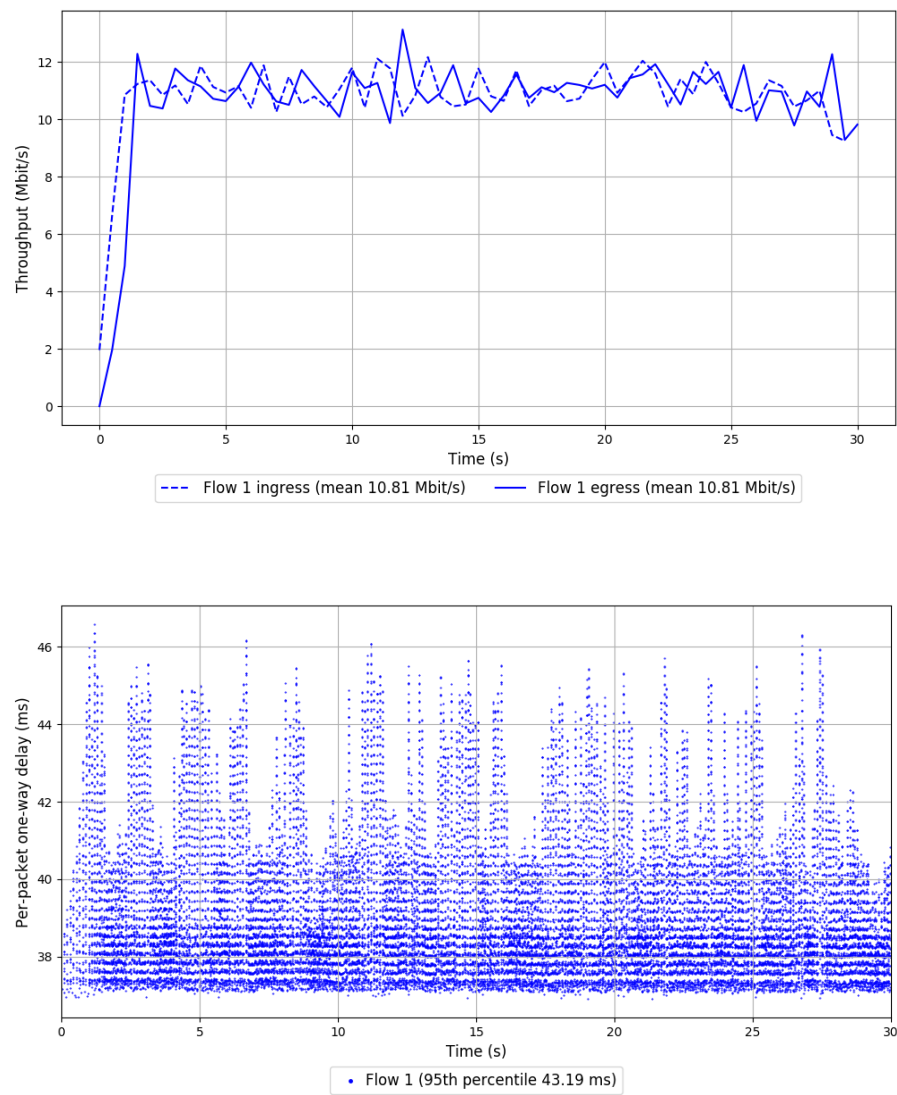
-- Flow 1:

Average throughput: 10.81 Mbit/s

95th percentile per-packet one-way delay: 43.190 ms

Loss rate: 0.00%

Run 6: Report of Sprout — Data Link

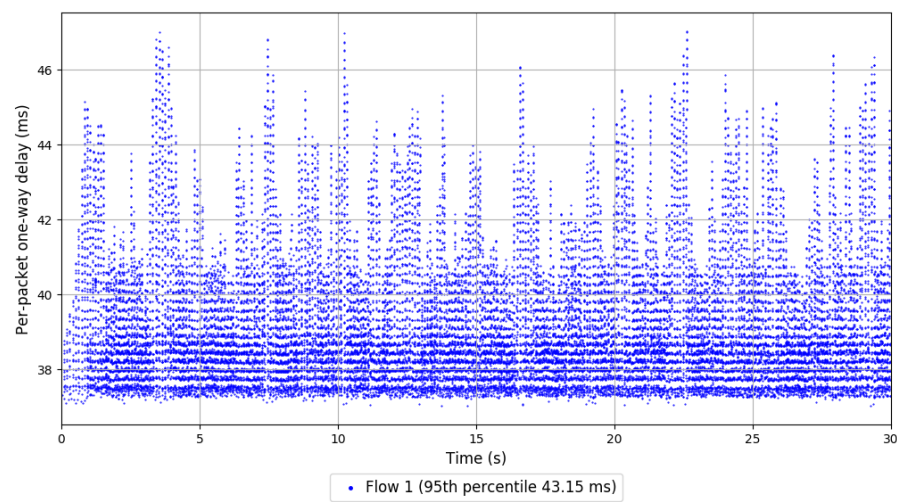
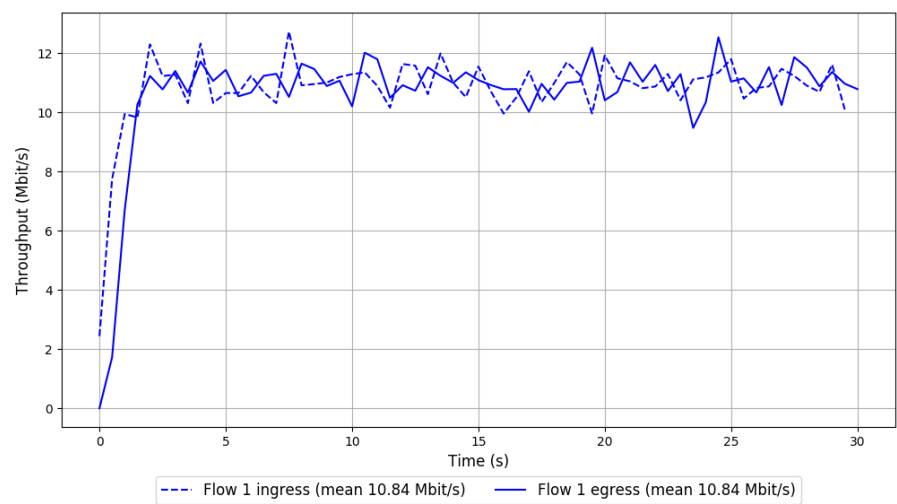


Run 7: Statistics of Sprout

Start at: 2018-07-24 09:13:44
End at: 2018-07-24 09:14:14
Local clock offset: -0.449 ms
Remote clock offset: 5.295 ms

Below is generated by plot.py at 2018-07-24 10:43:38
Datalink statistics
-- Total of 1 flow:
Average throughput: 10.84 Mbit/s
95th percentile per-packet one-way delay: 43.147 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 10.84 Mbit/s
95th percentile per-packet one-way delay: 43.147 ms
Loss rate: 0.00%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-07-24 09:35:57

End at: 2018-07-24 09:36:27

Local clock offset: 0.171 ms

Remote clock offset: 2.055 ms

Below is generated by plot.py at 2018-07-24 10:43:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 10.87 Mbit/s

95th percentile per-packet one-way delay: 40.850 ms

Loss rate: 0.00%

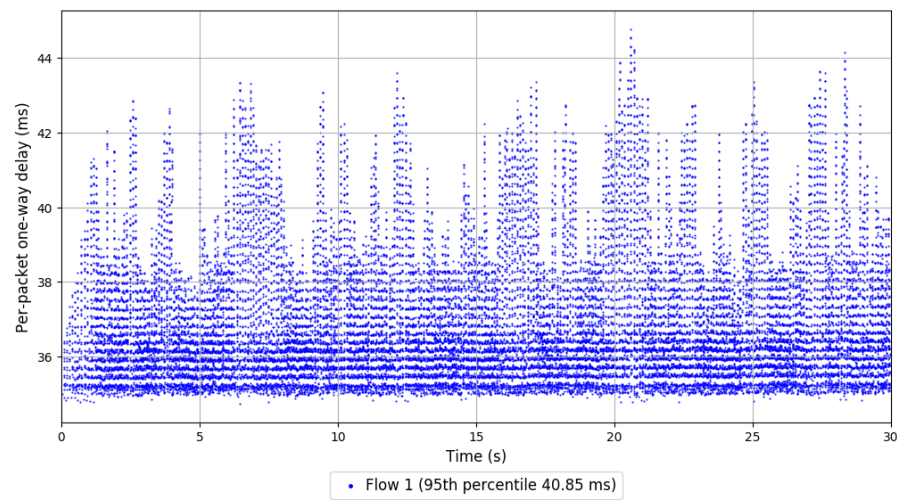
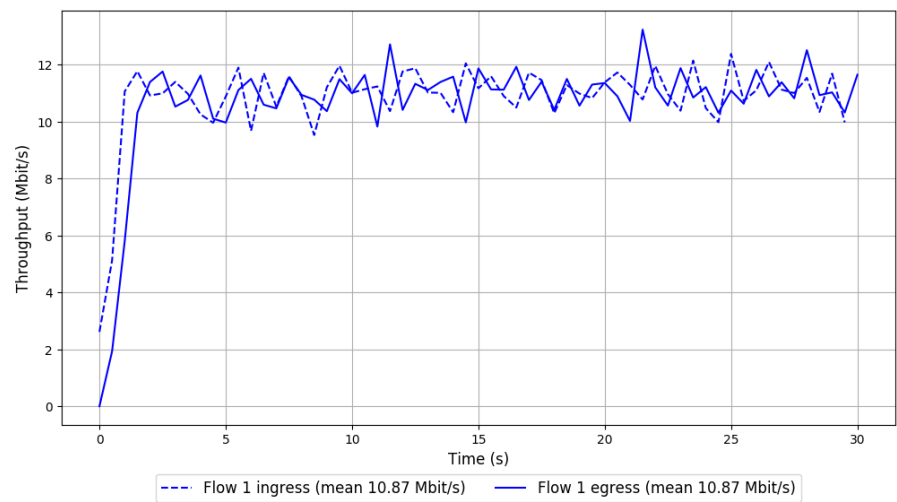
-- Flow 1:

Average throughput: 10.87 Mbit/s

95th percentile per-packet one-way delay: 40.850 ms

Loss rate: 0.00%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-07-24 09:58:11

End at: 2018-07-24 09:58:41

Local clock offset: 1.261 ms

Remote clock offset: 4.561 ms

Below is generated by plot.py at 2018-07-24 10:43:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 10.70 Mbit/s

95th percentile per-packet one-way delay: 42.943 ms

Loss rate: 0.00%

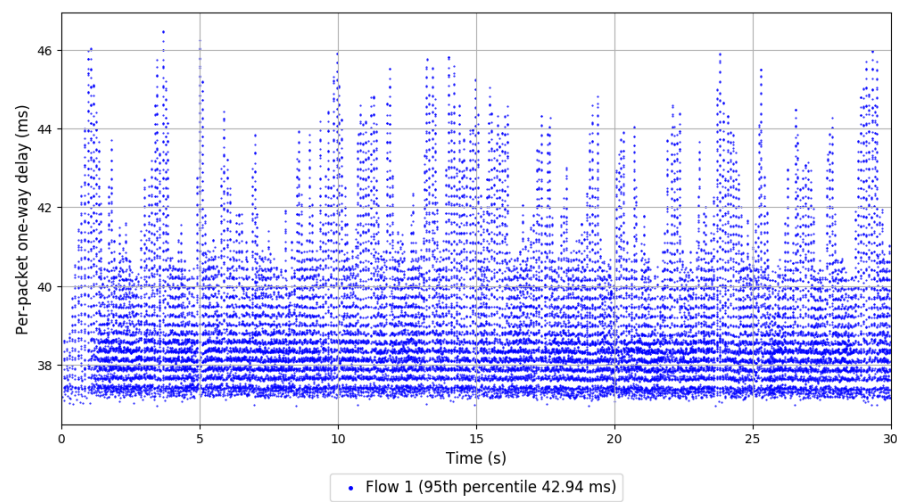
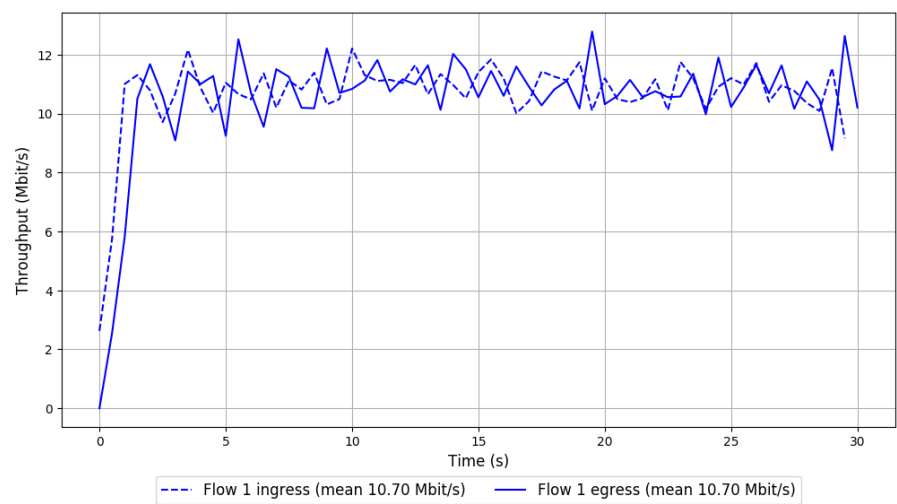
-- Flow 1:

Average throughput: 10.70 Mbit/s

95th percentile per-packet one-way delay: 42.943 ms

Loss rate: 0.00%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-07-24 10:20:27

End at: 2018-07-24 10:20:57

Local clock offset: 1.656 ms

Remote clock offset: 3.077 ms

Below is generated by plot.py at 2018-07-24 10:43:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 10.78 Mbit/s

95th percentile per-packet one-way delay: 40.882 ms

Loss rate: 0.00%

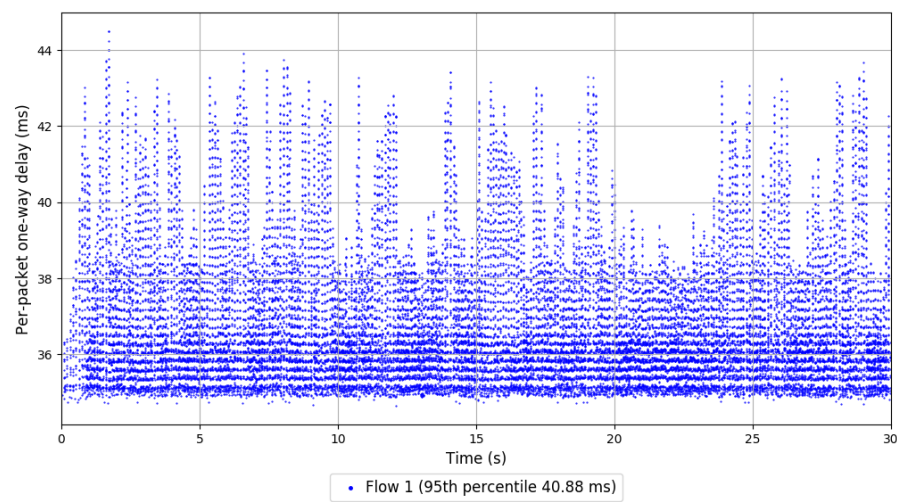
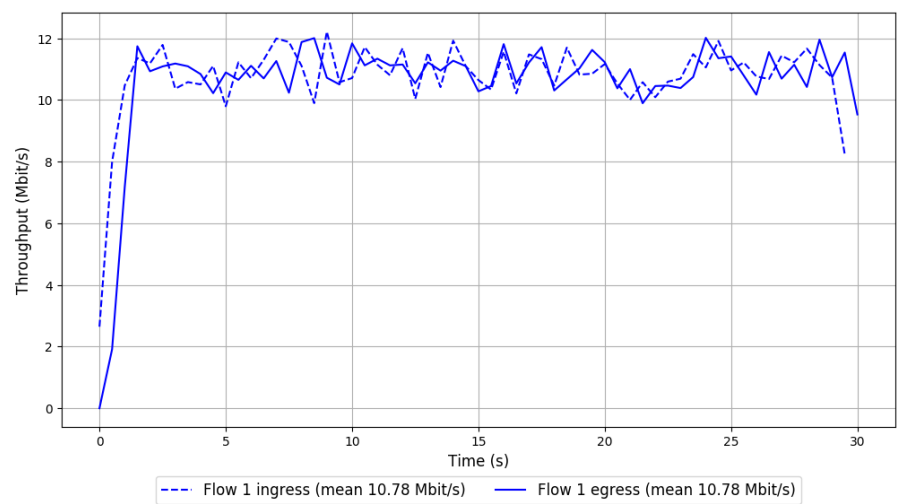
-- Flow 1:

Average throughput: 10.78 Mbit/s

95th percentile per-packet one-way delay: 40.882 ms

Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

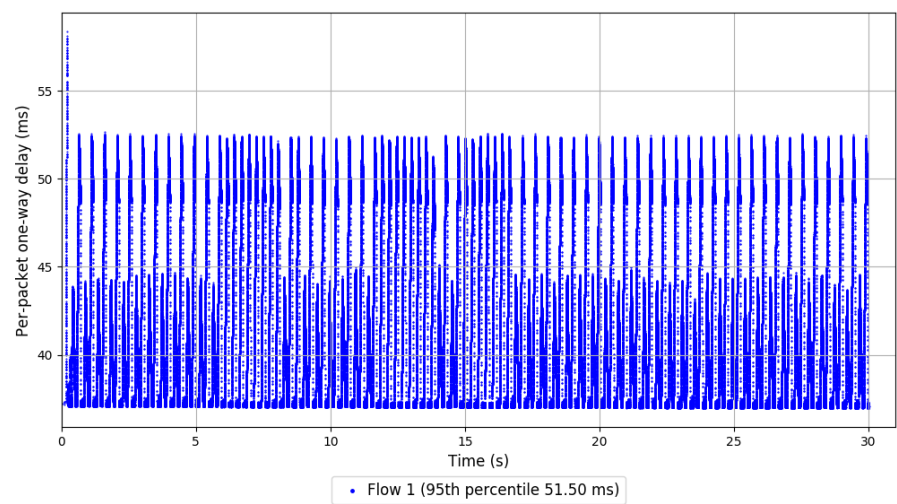
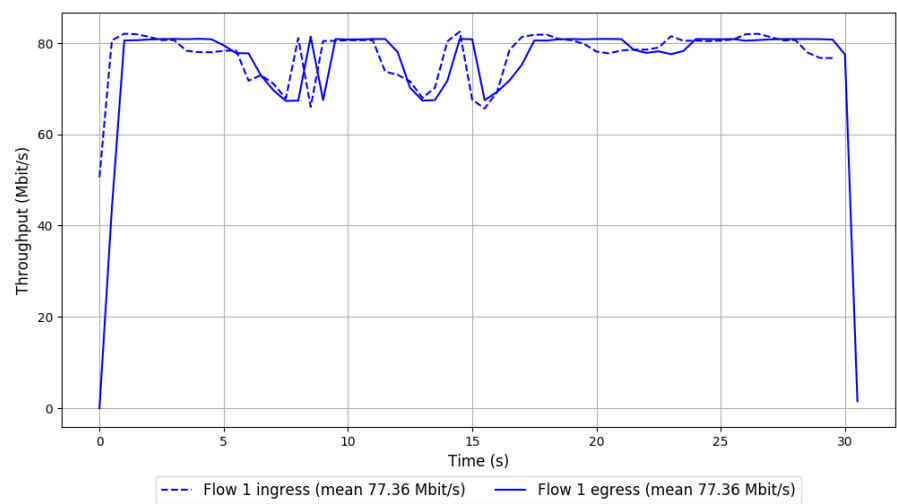


Run 1: Statistics of TaoVA-100x

Start at: 2018-07-24 06:50:51
End at: 2018-07-24 06:51:21
Local clock offset: -13.066 ms
Remote clock offset: 4.288 ms

Below is generated by plot.py at 2018-07-24 10:45:02
Datalink statistics
-- Total of 1 flow:
Average throughput: 77.36 Mbit/s
95th percentile per-packet one-way delay: 51.503 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 77.36 Mbit/s
95th percentile per-packet one-way delay: 51.503 ms
Loss rate: 0.00%

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



Run 2: Statistics of TaoVA-100x

Start at: 2018-07-24 07:13:08

End at: 2018-07-24 07:13:38

Local clock offset: -7.061 ms

Remote clock offset: 2.068 ms

Below is generated by plot.py at 2018-07-24 10:45:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 70.94 Mbit/s

95th percentile per-packet one-way delay: 48.877 ms

Loss rate: 0.02%

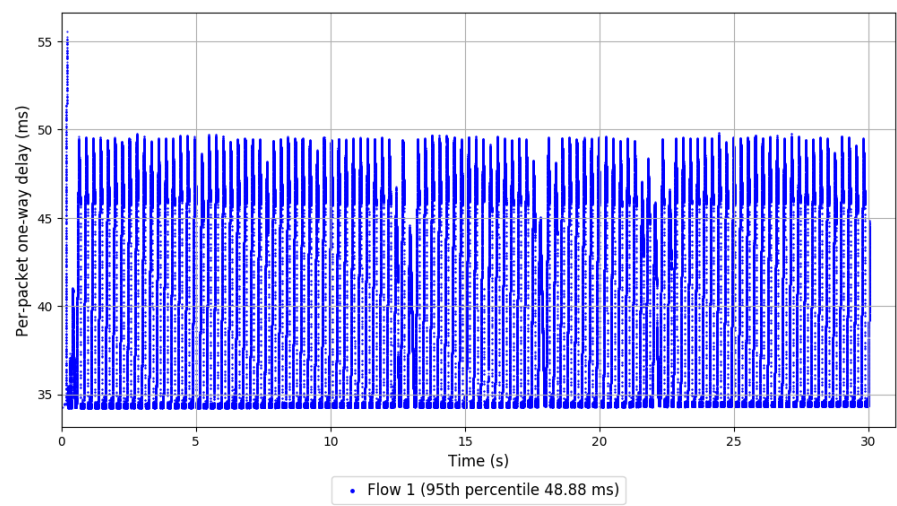
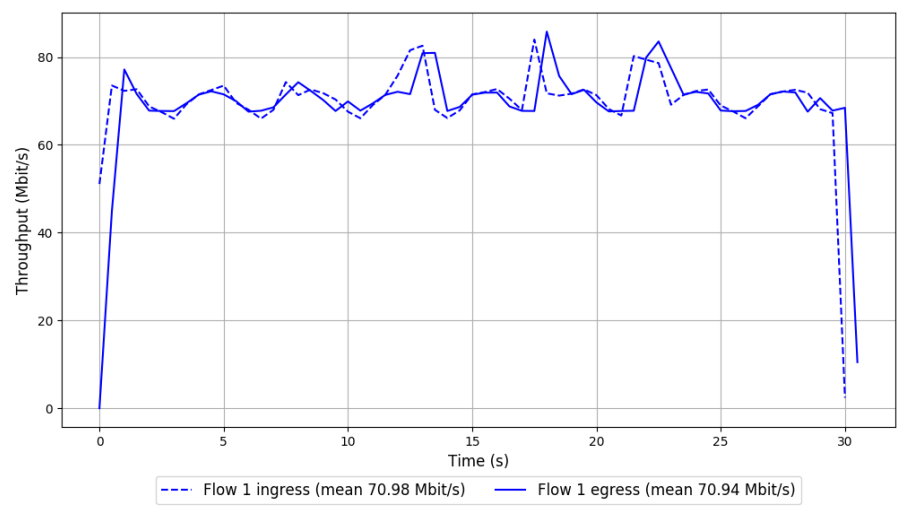
-- Flow 1:

Average throughput: 70.94 Mbit/s

95th percentile per-packet one-way delay: 48.877 ms

Loss rate: 0.02%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-07-24 07:35:23

End at: 2018-07-24 07:35:53

Local clock offset: -5.741 ms

Remote clock offset: 4.637 ms

Below is generated by plot.py at 2018-07-24 10:45:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.78 Mbit/s

95th percentile per-packet one-way delay: 52.170 ms

Loss rate: 0.00%

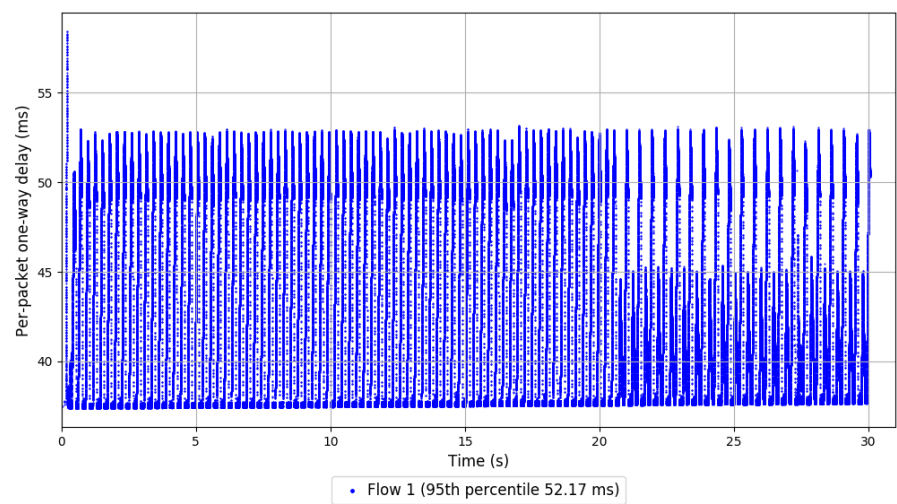
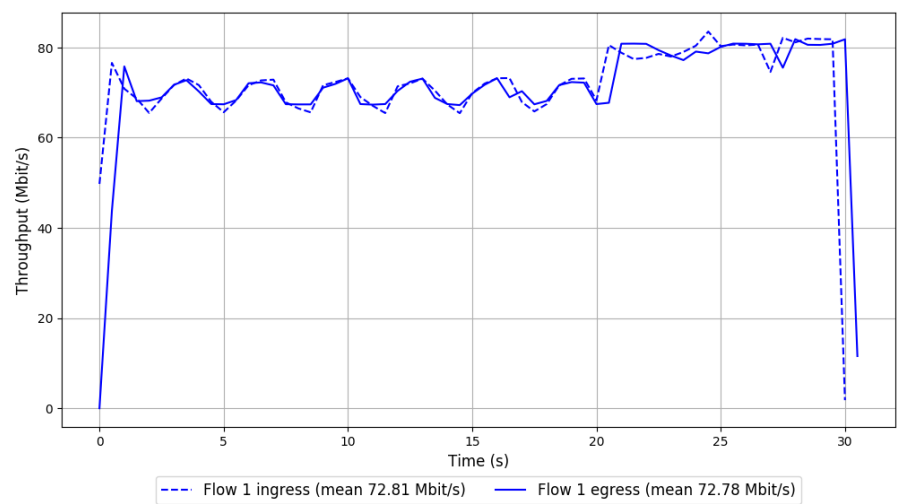
-- Flow 1:

Average throughput: 72.78 Mbit/s

95th percentile per-packet one-way delay: 52.170 ms

Loss rate: 0.00%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-07-24 07:57:40

End at: 2018-07-24 07:58:10

Local clock offset: -3.507 ms

Remote clock offset: 1.677 ms

Below is generated by plot.py at 2018-07-24 10:45:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.83 Mbit/s

95th percentile per-packet one-way delay: 48.235 ms

Loss rate: 0.02%

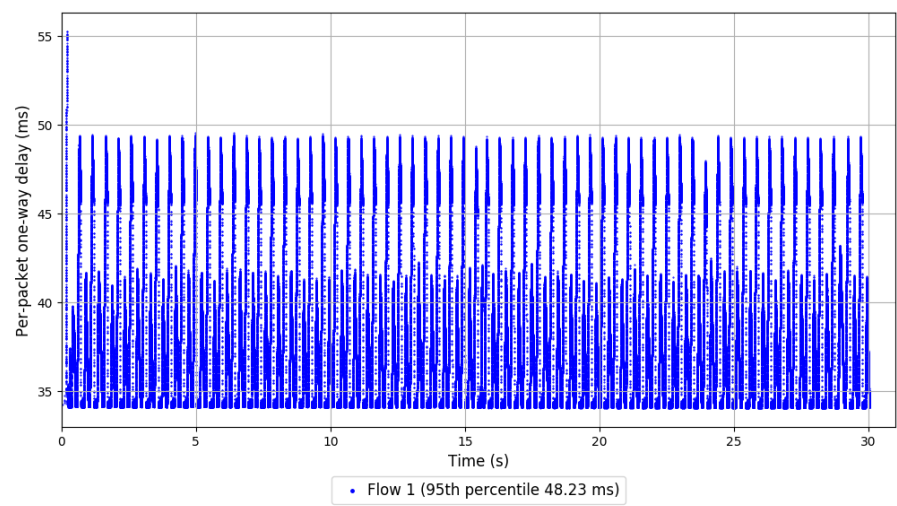
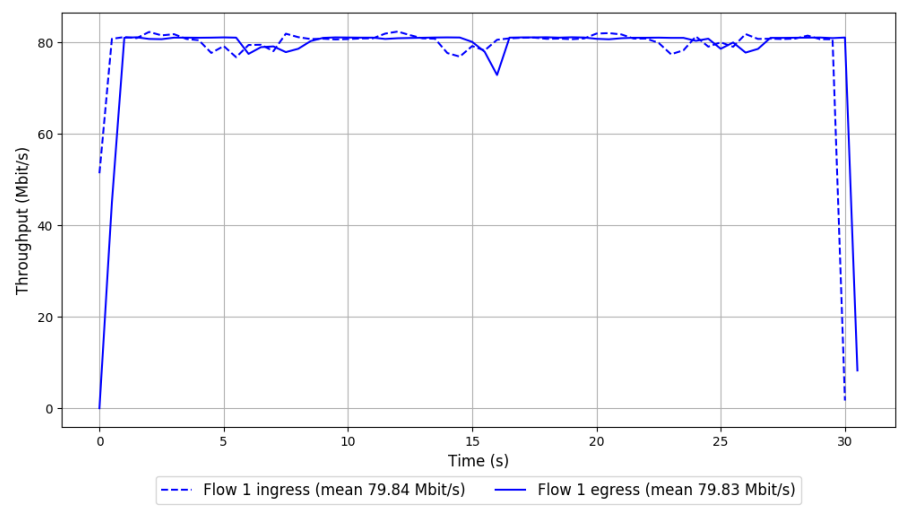
-- Flow 1:

Average throughput: 79.83 Mbit/s

95th percentile per-packet one-way delay: 48.235 ms

Loss rate: 0.02%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-07-24 08:19:59

End at: 2018-07-24 08:20:29

Local clock offset: -0.973 ms

Remote clock offset: 3.94 ms

Below is generated by plot.py at 2018-07-24 10:45:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.25 Mbit/s

95th percentile per-packet one-way delay: 51.019 ms

Loss rate: 0.00%

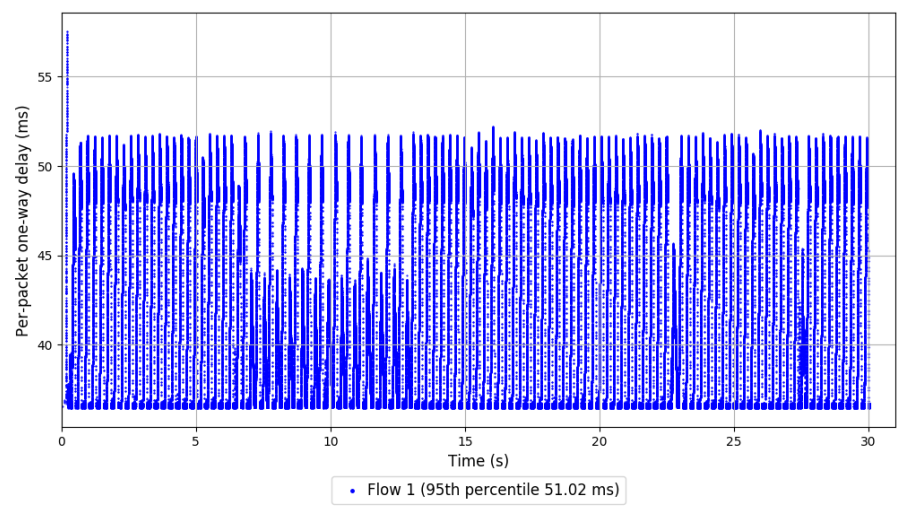
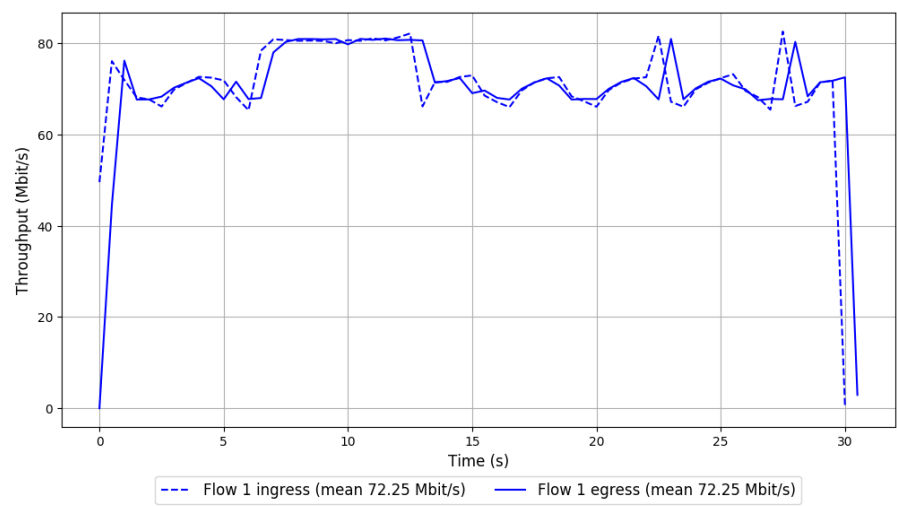
-- Flow 1:

Average throughput: 72.25 Mbit/s

95th percentile per-packet one-way delay: 51.019 ms

Loss rate: 0.00%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-07-24 08:42:19

End at: 2018-07-24 08:42:49

Local clock offset: -0.688 ms

Remote clock offset: 3.794 ms

Below is generated by plot.py at 2018-07-24 10:45:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.28 Mbit/s

95th percentile per-packet one-way delay: 51.829 ms

Loss rate: 0.00%

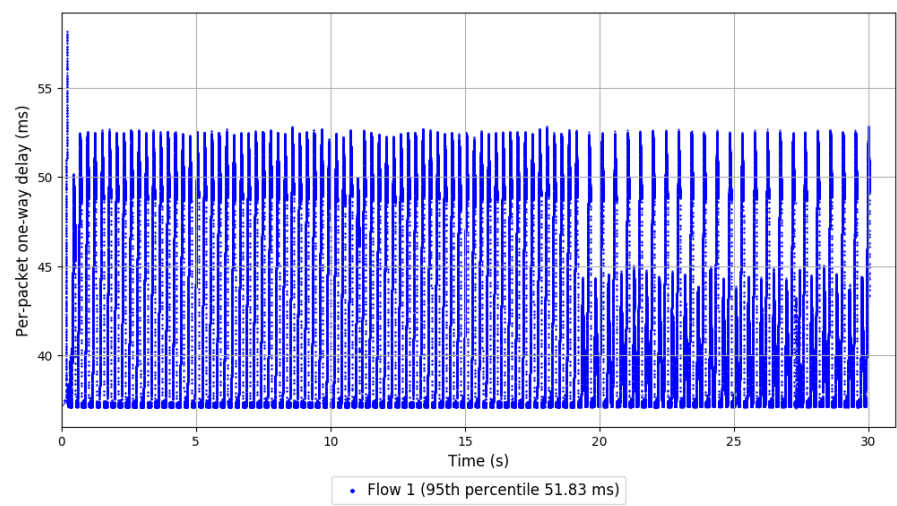
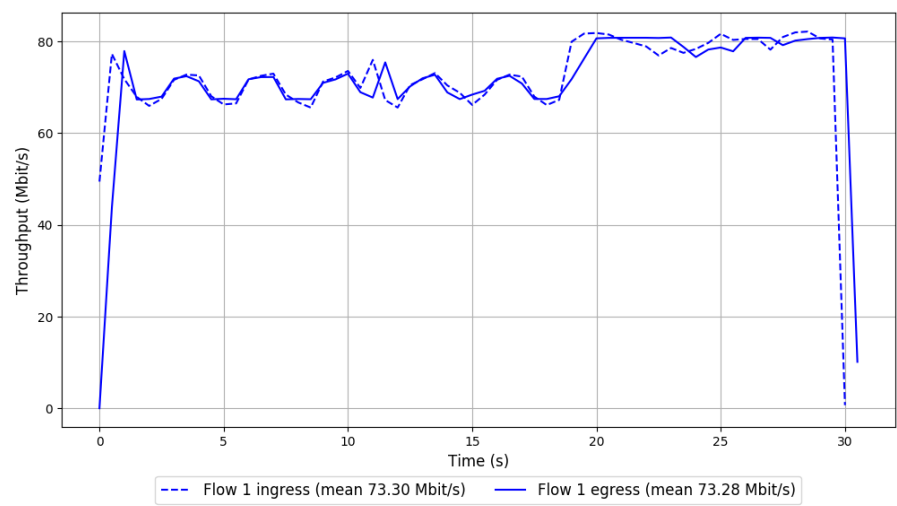
-- Flow 1:

Average throughput: 73.28 Mbit/s

95th percentile per-packet one-way delay: 51.829 ms

Loss rate: 0.00%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-07-24 09:04:35

End at: 2018-07-24 09:05:05

Local clock offset: -0.971 ms

Remote clock offset: 5.053 ms

Below is generated by plot.py at 2018-07-24 10:45:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.69 Mbit/s

95th percentile per-packet one-way delay: 51.826 ms

Loss rate: 0.00%

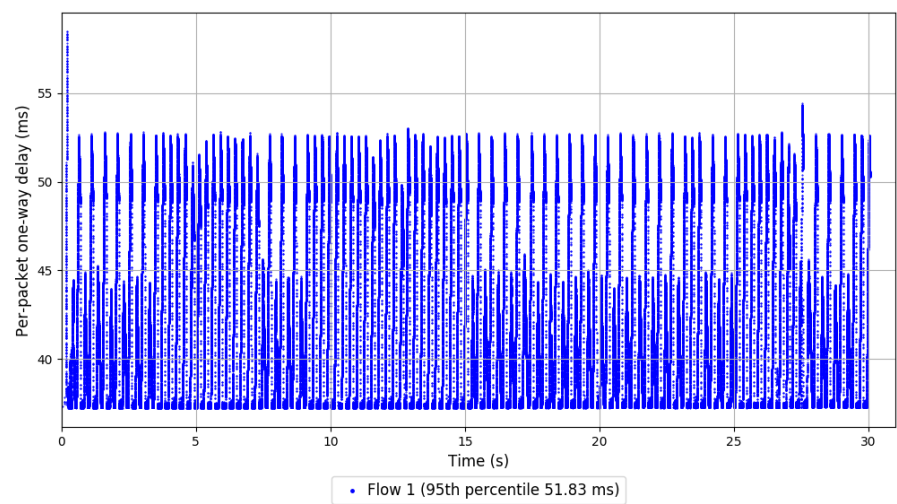
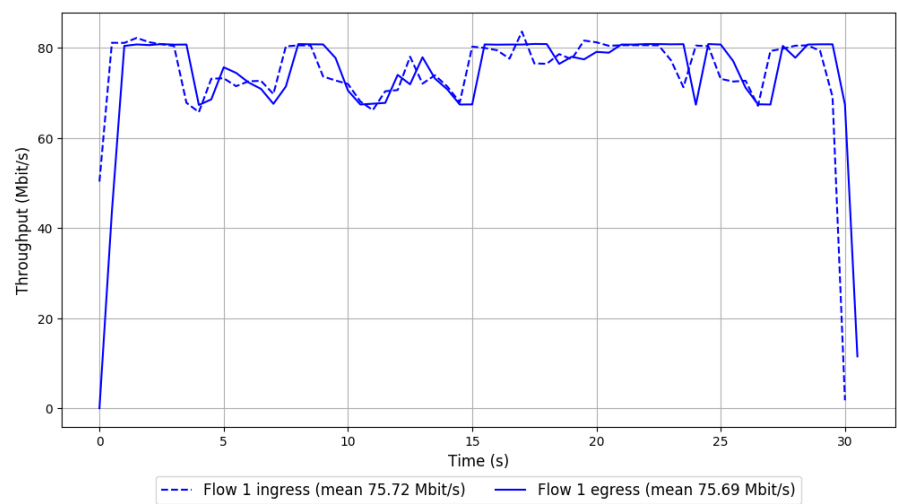
-- Flow 1:

Average throughput: 75.69 Mbit/s

95th percentile per-packet one-way delay: 51.826 ms

Loss rate: 0.00%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-07-24 09:26:50

End at: 2018-07-24 09:27:20

Local clock offset: -0.522 ms

Remote clock offset: 4.734 ms

Below is generated by plot.py at 2018-07-24 10:45:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.82 Mbit/s

95th percentile per-packet one-way delay: 51.073 ms

Loss rate: 0.02%

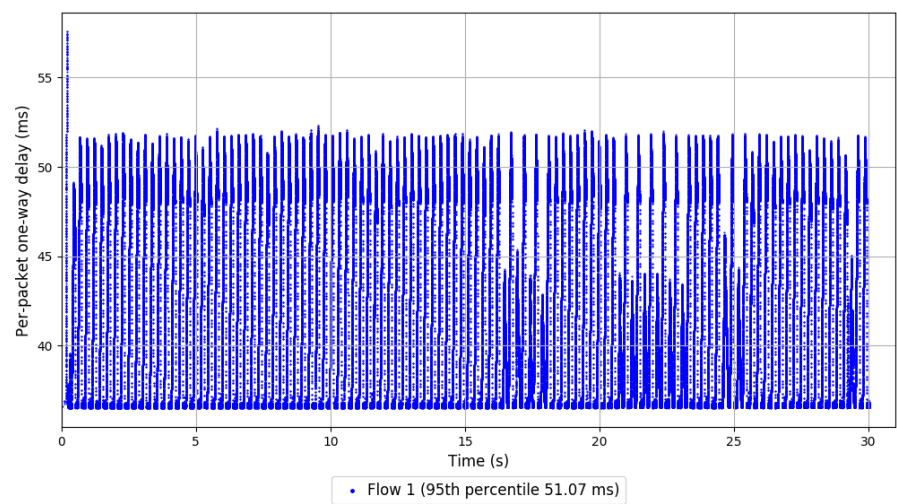
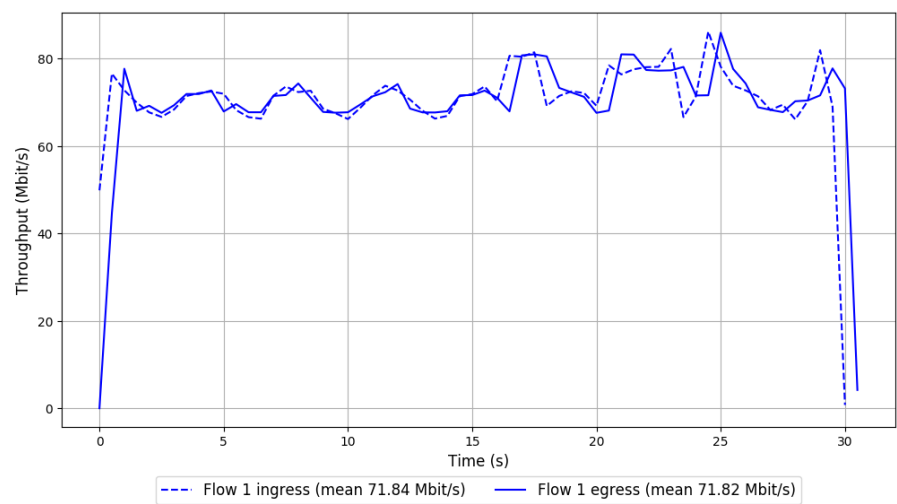
-- Flow 1:

Average throughput: 71.82 Mbit/s

95th percentile per-packet one-way delay: 51.073 ms

Loss rate: 0.02%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-07-24 09:49:03

End at: 2018-07-24 09:49:33

Local clock offset: 1.104 ms

Remote clock offset: 4.251 ms

Below is generated by plot.py at 2018-07-24 10:46:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.11 Mbit/s

95th percentile per-packet one-way delay: 50.837 ms

Loss rate: 0.00%

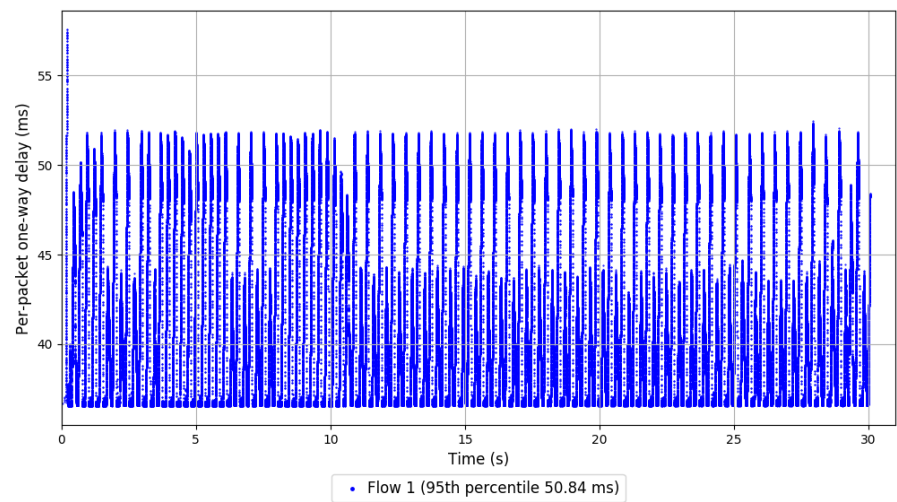
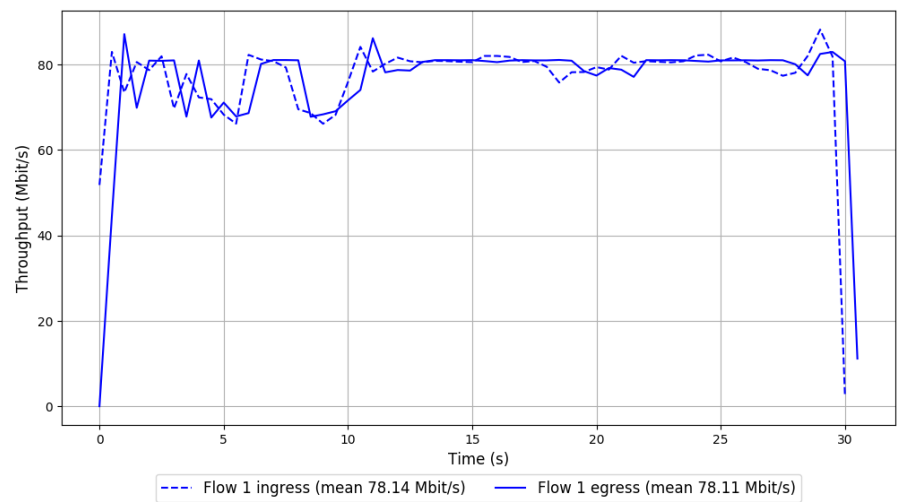
-- Flow 1:

Average throughput: 78.11 Mbit/s

95th percentile per-packet one-way delay: 50.837 ms

Loss rate: 0.00%

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



Run 10: Statistics of TaoVA-100x

Start at: 2018-07-24 10:11:17

End at: 2018-07-24 10:11:47

Local clock offset: 1.456 ms

Remote clock offset: 5.205 ms

Below is generated by plot.py at 2018-07-24 10:46:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.59 Mbit/s

95th percentile per-packet one-way delay: 51.173 ms

Loss rate: 0.00%

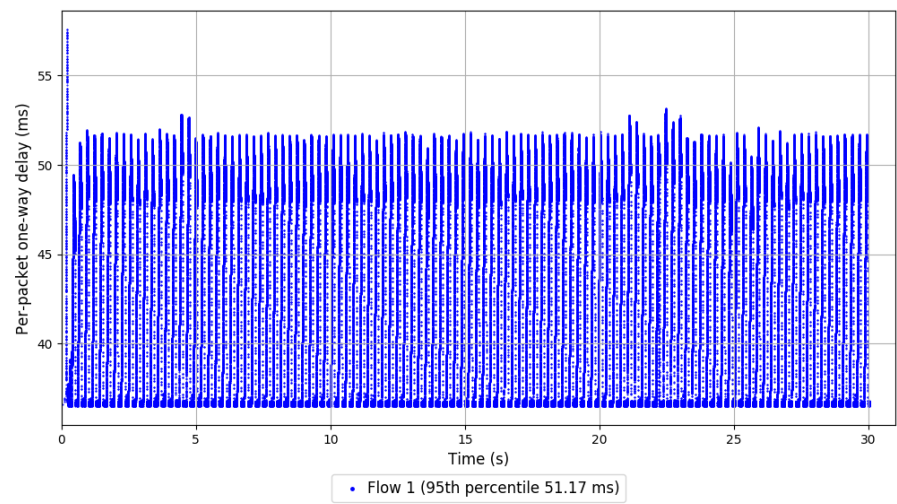
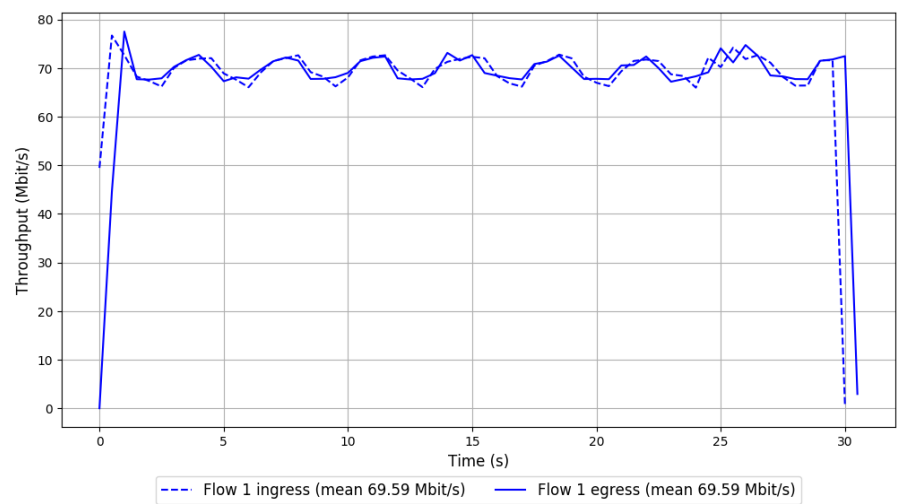
-- Flow 1:

Average throughput: 69.59 Mbit/s

95th percentile per-packet one-way delay: 51.173 ms

Loss rate: 0.00%

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

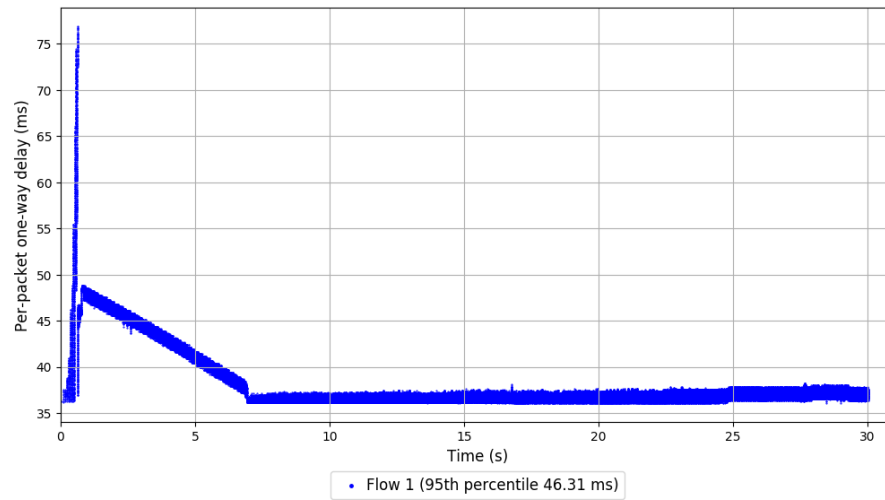
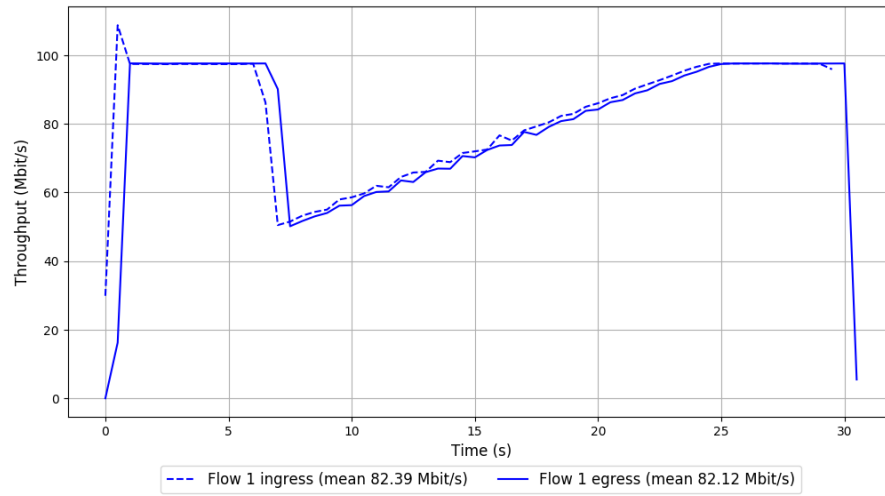


Run 1: Statistics of TCP Vegas

Start at: 2018-07-24 06:56:01
End at: 2018-07-24 06:56:31
Local clock offset: -14.428 ms
Remote clock offset: 4.289 ms

Below is generated by plot.py at 2018-07-24 10:46:39
Datalink statistics
-- Total of 1 flow:
Average throughput: 82.12 Mbit/s
95th percentile per-packet one-way delay: 46.311 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 82.12 Mbit/s
95th percentile per-packet one-way delay: 46.311 ms
Loss rate: 0.31%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-07-24 07:18:19

End at: 2018-07-24 07:18:49

Local clock offset: -6.395 ms

Remote clock offset: 4.486 ms

Below is generated by plot.py at 2018-07-24 10:46:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.23 Mbit/s

95th percentile per-packet one-way delay: 46.743 ms

Loss rate: 0.27%

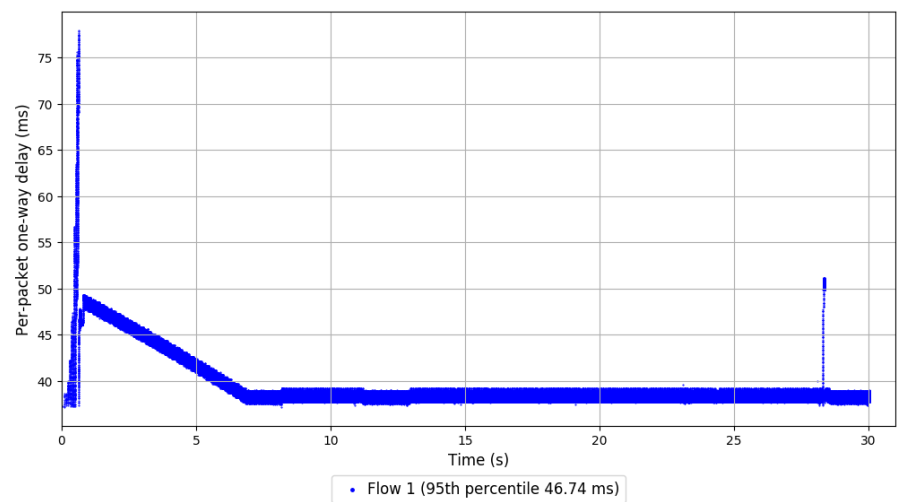
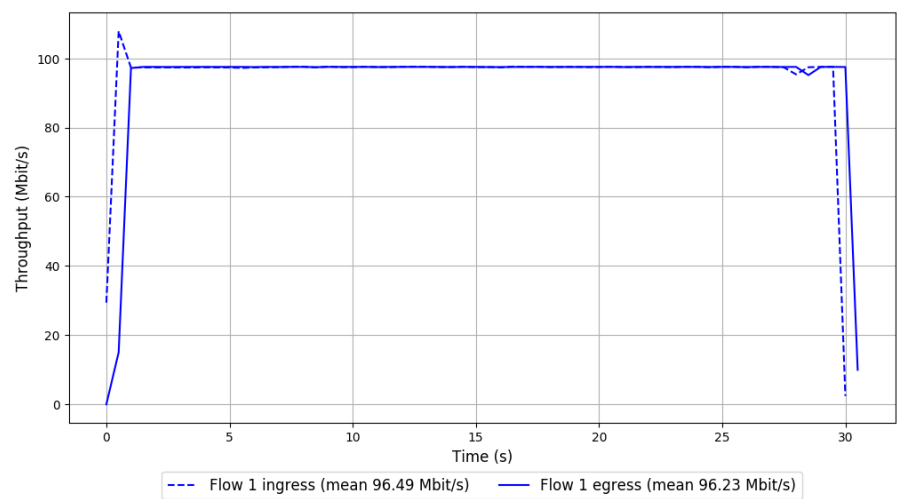
-- Flow 1:

Average throughput: 96.23 Mbit/s

95th percentile per-packet one-way delay: 46.743 ms

Loss rate: 0.27%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-07-24 07:40:34

End at: 2018-07-24 07:41:04

Local clock offset: -3.73 ms

Remote clock offset: 4.409 ms

Below is generated by plot.py at 2018-07-24 10:46:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 70.73 Mbit/s

95th percentile per-packet one-way delay: 47.051 ms

Loss rate: 0.38%

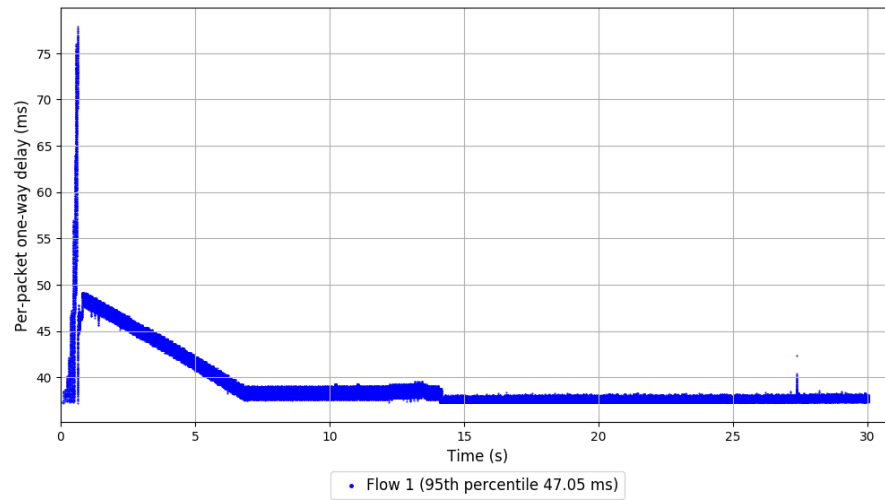
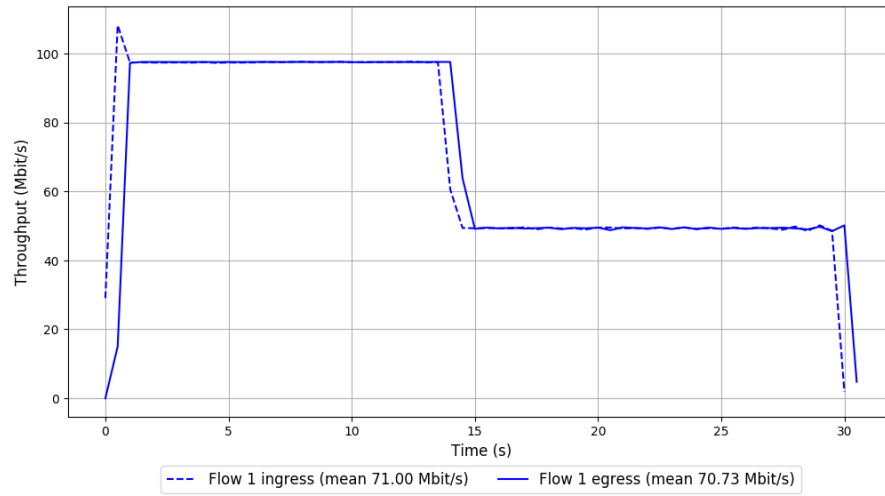
-- Flow 1:

Average throughput: 70.73 Mbit/s

95th percentile per-packet one-way delay: 47.051 ms

Loss rate: 0.38%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-07-24 08:02:52

End at: 2018-07-24 08:03:22

Local clock offset: -3.625 ms

Remote clock offset: 1.541 ms

Below is generated by plot.py at 2018-07-24 10:46:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.21 Mbit/s

95th percentile per-packet one-way delay: 44.450 ms

Loss rate: 0.27%

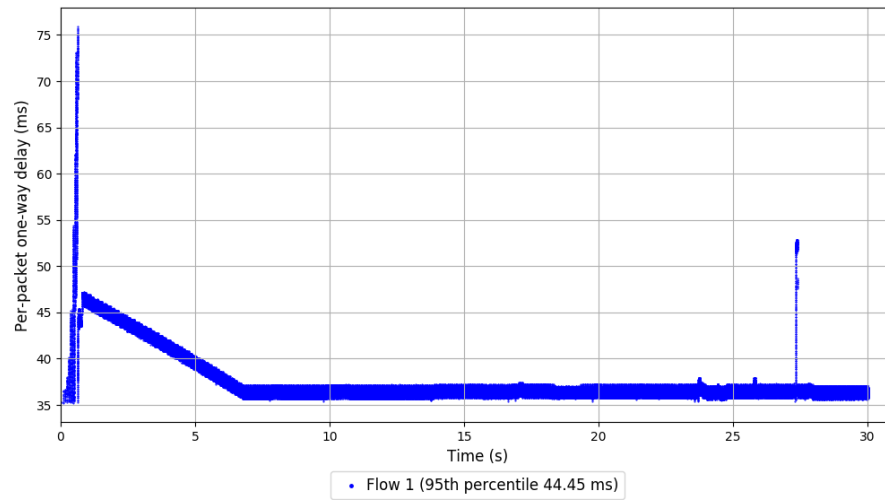
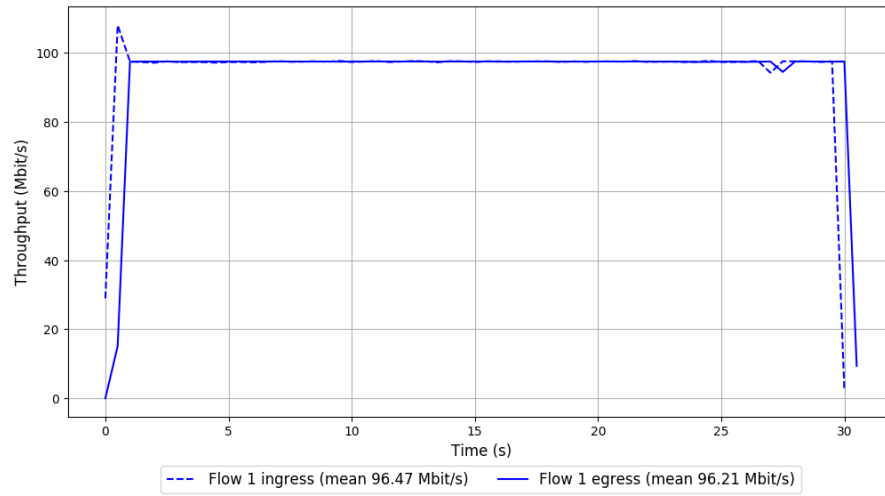
-- Flow 1:

Average throughput: 96.21 Mbit/s

95th percentile per-packet one-way delay: 44.450 ms

Loss rate: 0.27%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-07-24 08:25:11

End at: 2018-07-24 08:25:41

Local clock offset: -1.126 ms

Remote clock offset: 3.858 ms

Below is generated by plot.py at 2018-07-24 10:46:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.34 Mbit/s

95th percentile per-packet one-way delay: 45.245 ms

Loss rate: 0.39%

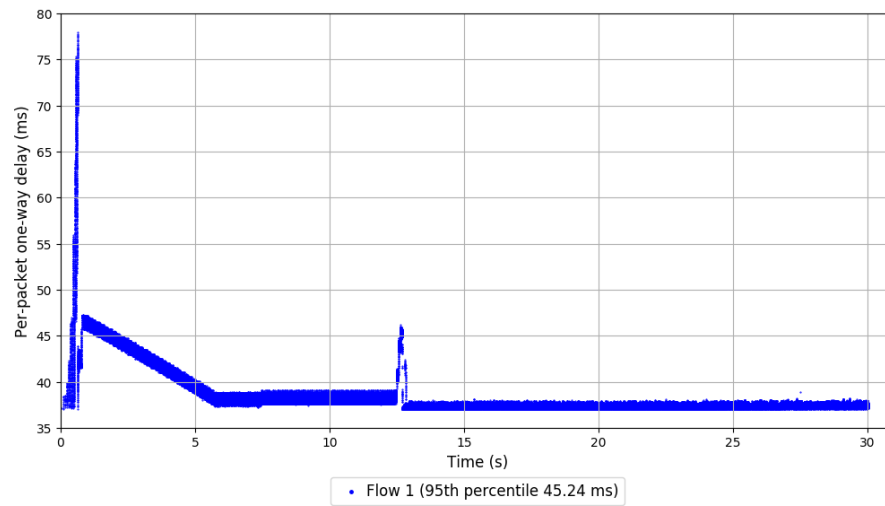
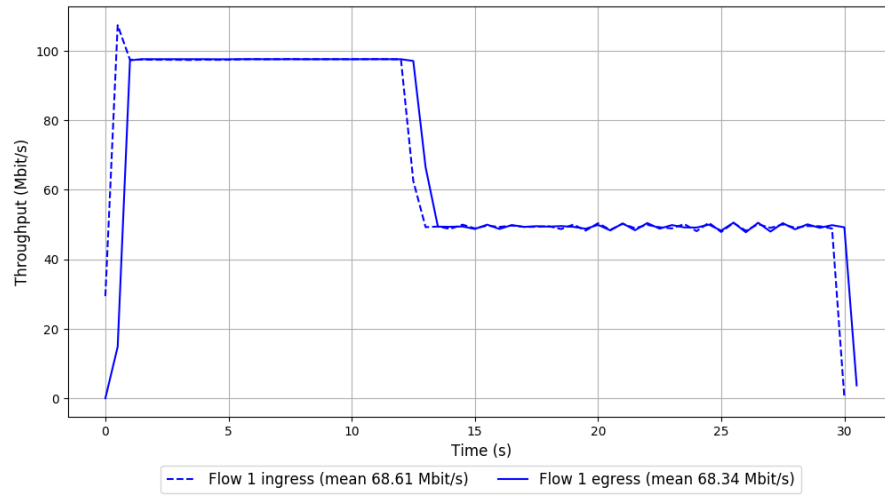
-- Flow 1:

Average throughput: 68.34 Mbit/s

95th percentile per-packet one-way delay: 45.245 ms

Loss rate: 0.39%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-07-24 08:47:30

End at: 2018-07-24 08:48:00

Local clock offset: -0.8 ms

Remote clock offset: 4.016 ms

Below is generated by plot.py at 2018-07-24 10:46:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.60 Mbit/s

95th percentile per-packet one-way delay: 38.117 ms

Loss rate: 0.90%

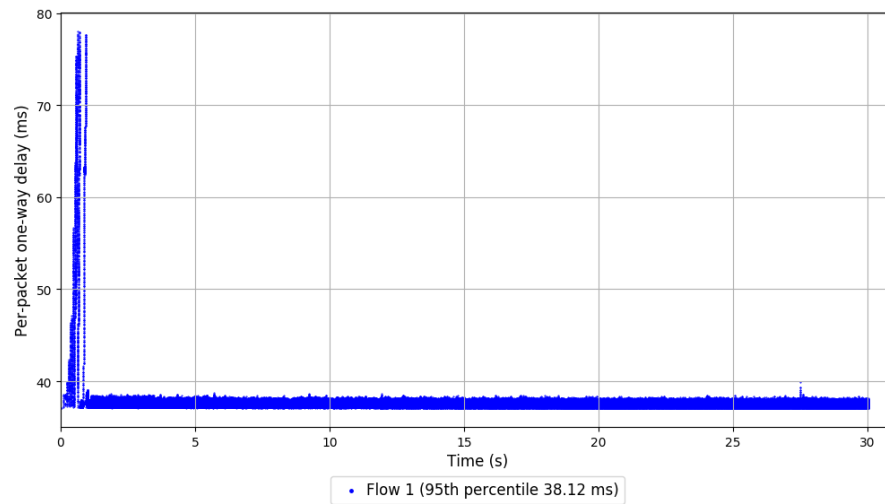
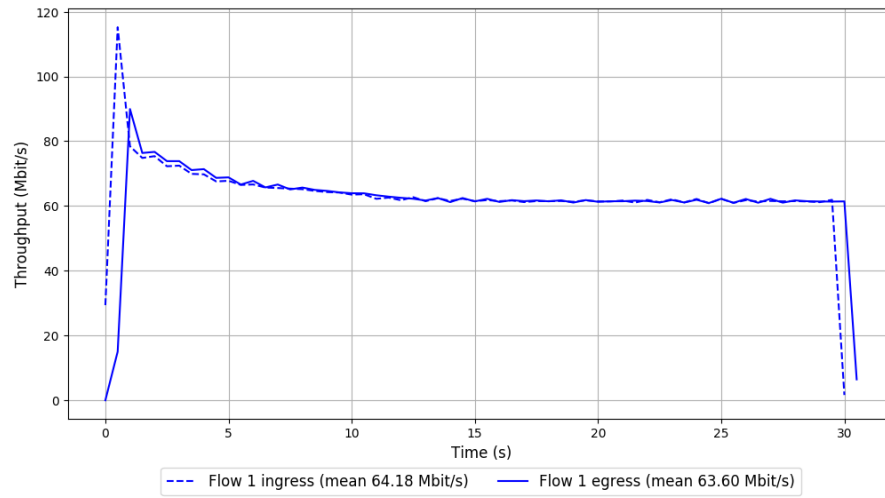
-- Flow 1:

Average throughput: 63.60 Mbit/s

95th percentile per-packet one-way delay: 38.117 ms

Loss rate: 0.90%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-07-24 09:09:46

End at: 2018-07-24 09:10:16

Local clock offset: -0.484 ms

Remote clock offset: 5.203 ms

Below is generated by plot.py at 2018-07-24 10:47:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.21 Mbit/s

95th percentile per-packet one-way delay: 46.547 ms

Loss rate: 0.27%

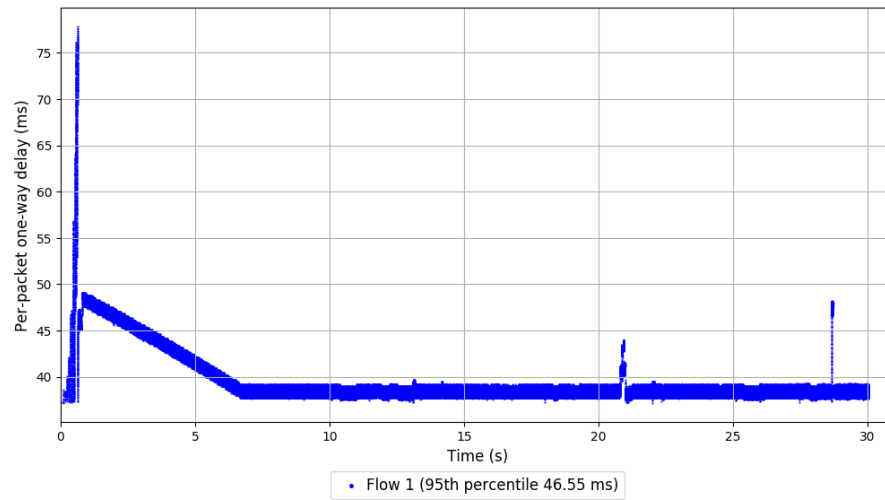
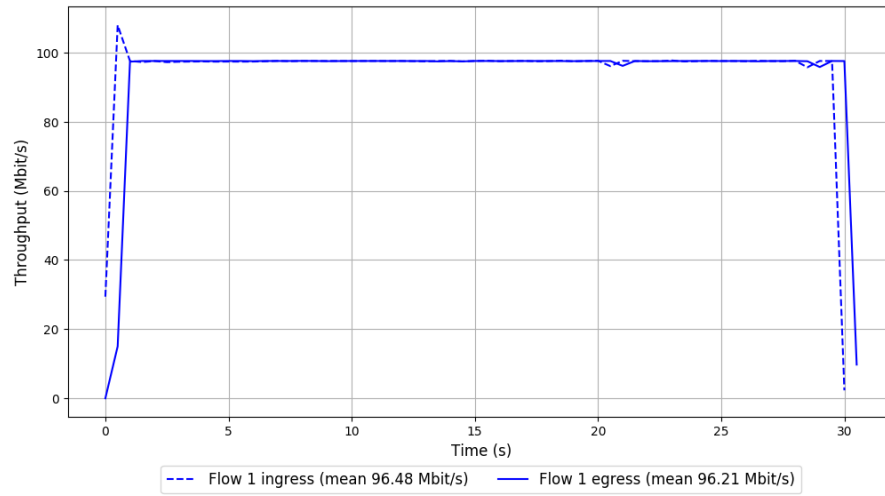
-- Flow 1:

Average throughput: 96.21 Mbit/s

95th percentile per-packet one-way delay: 46.547 ms

Loss rate: 0.27%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-07-24 09:32:00

End at: 2018-07-24 09:32:30

Local clock offset: -0.597 ms

Remote clock offset: 4.578 ms

Below is generated by plot.py at 2018-07-24 10:47:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 81.78 Mbit/s

95th percentile per-packet one-way delay: 46.540 ms

Loss rate: 0.32%

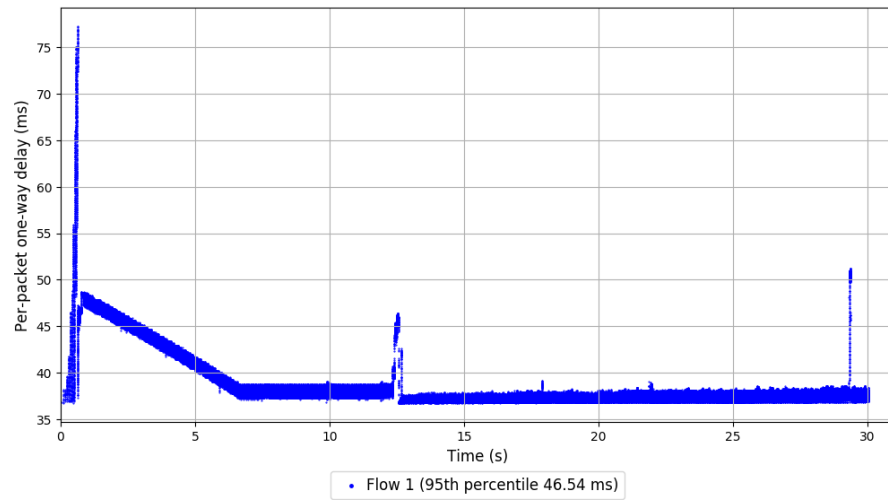
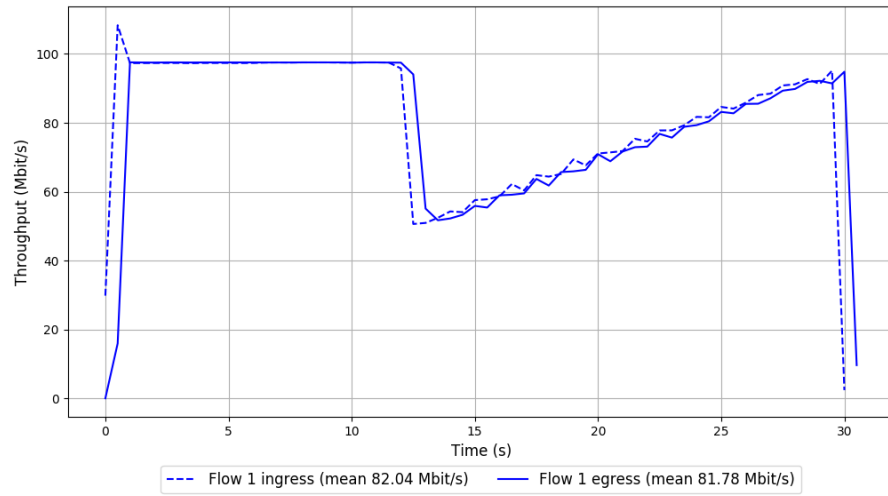
-- Flow 1:

Average throughput: 81.78 Mbit/s

95th percentile per-packet one-way delay: 46.540 ms

Loss rate: 0.32%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-07-24 09:54:15

End at: 2018-07-24 09:54:45

Local clock offset: 1.241 ms

Remote clock offset: 4.191 ms

Below is generated by plot.py at 2018-07-24 10:47:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.66 Mbit/s

95th percentile per-packet one-way delay: 47.429 ms

Loss rate: 0.41%

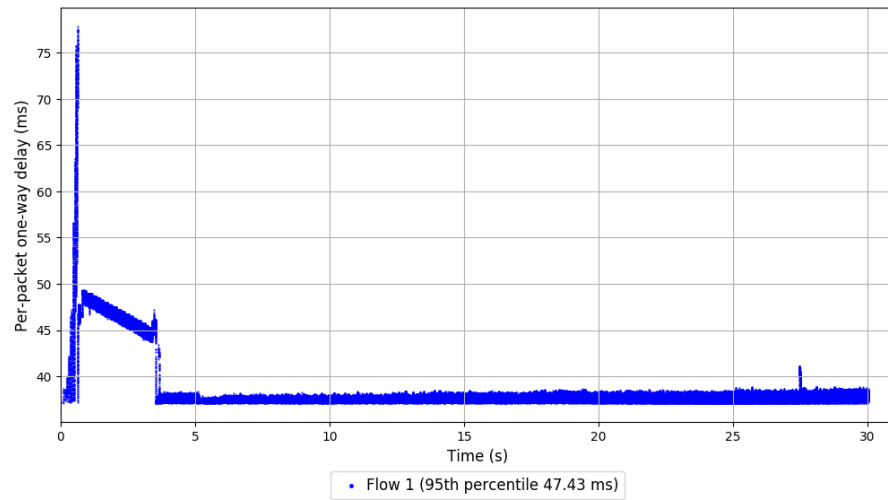
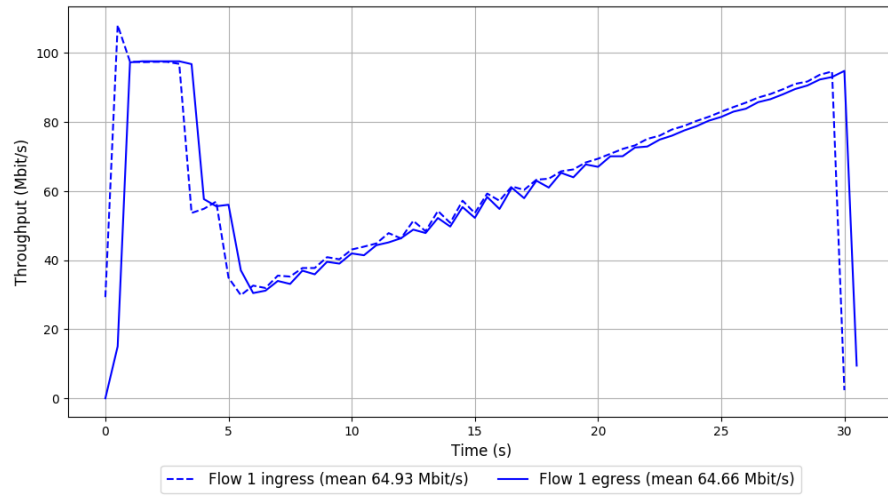
-- Flow 1:

Average throughput: 64.66 Mbit/s

95th percentile per-packet one-way delay: 47.429 ms

Loss rate: 0.41%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-07-24 10:16:28

End at: 2018-07-24 10:16:58

Local clock offset: 1.628 ms

Remote clock offset: 5.405 ms

Below is generated by plot.py at 2018-07-24 10:47:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.25 Mbit/s

95th percentile per-packet one-way delay: 44.795 ms

Loss rate: 0.27%

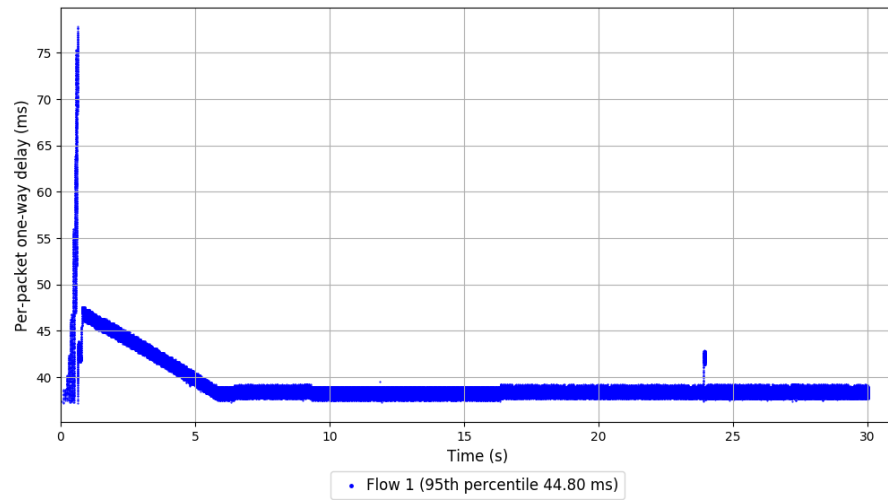
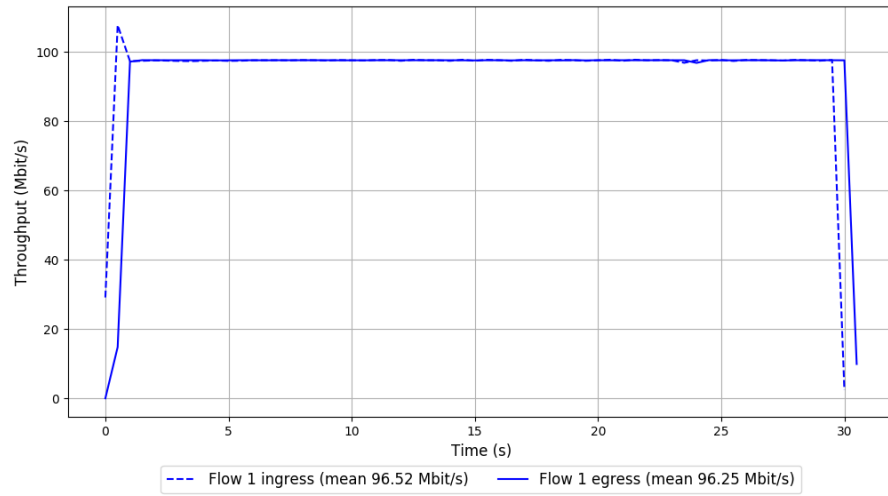
-- Flow 1:

Average throughput: 96.25 Mbit/s

95th percentile per-packet one-way delay: 44.795 ms

Loss rate: 0.27%

Run 10: Report of TCP Vegas — Data Link

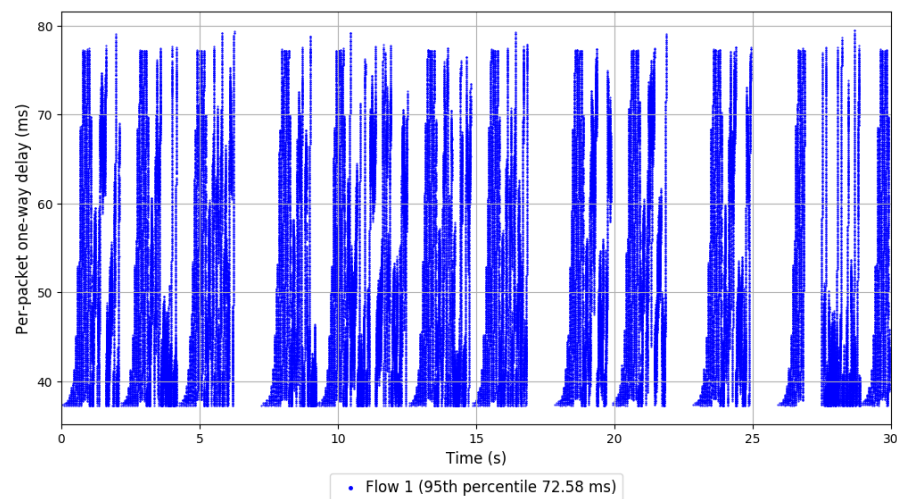
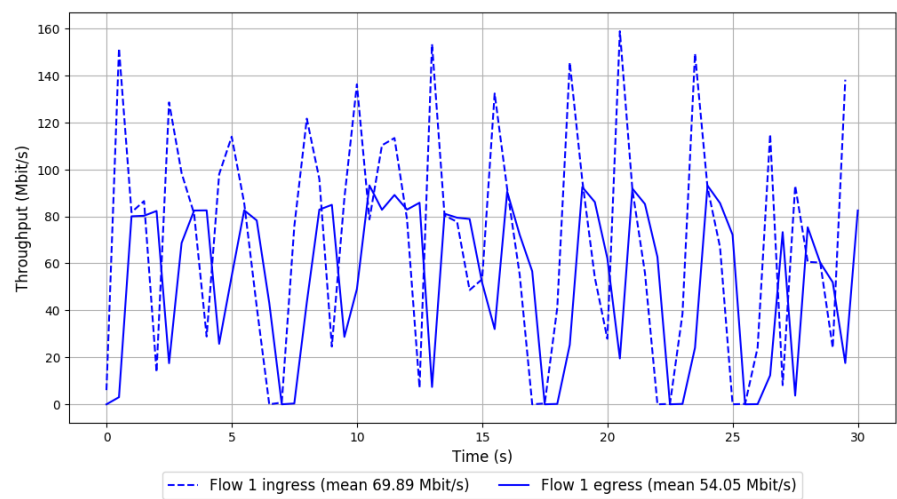


Run 1: Statistics of Verus

Start at: 2018-07-24 06:45:40
End at: 2018-07-24 06:46:10
Local clock offset: -12.961 ms
Remote clock offset: 4.263 ms

Below is generated by plot.py at 2018-07-24 10:47:17
Datalink statistics
-- Total of 1 flow:
Average throughput: 54.05 Mbit/s
95th percentile per-packet one-way delay: 72.575 ms
Loss rate: 22.67%
-- Flow 1:
Average throughput: 54.05 Mbit/s
95th percentile per-packet one-way delay: 72.575 ms
Loss rate: 22.67%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-07-24 07:07:48

End at: 2018-07-24 07:08:18

Local clock offset: -9.822 ms

Remote clock offset: 4.433 ms

Below is generated by plot.py at 2018-07-24 10:47:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 58.83 Mbit/s

95th percentile per-packet one-way delay: 72.792 ms

Loss rate: 21.45%

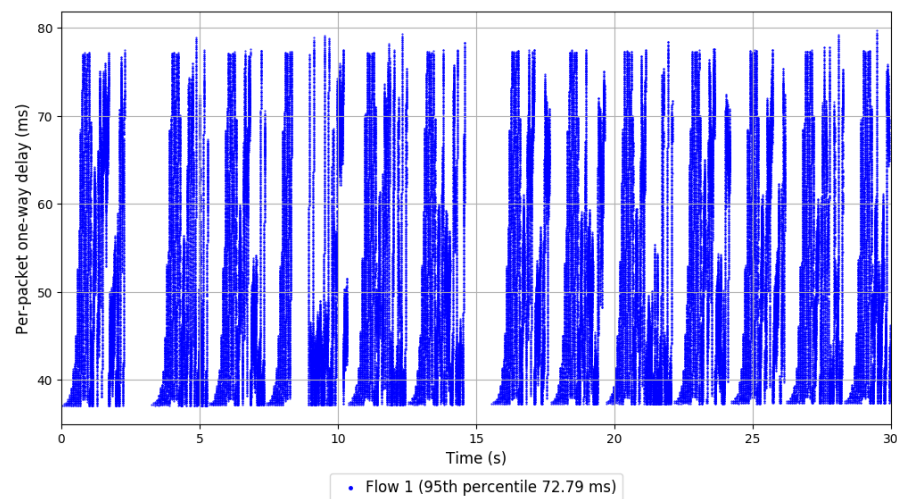
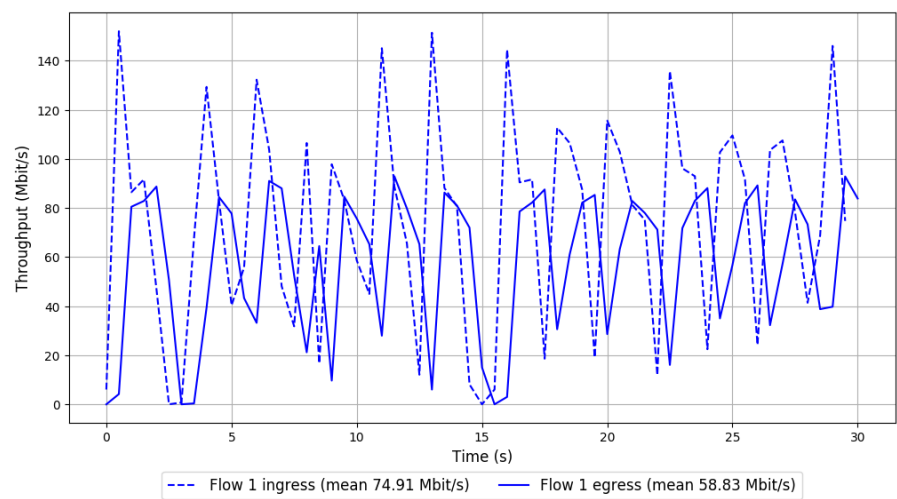
-- Flow 1:

Average throughput: 58.83 Mbit/s

95th percentile per-packet one-way delay: 72.792 ms

Loss rate: 21.45%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-07-24 07:30:07

End at: 2018-07-24 07:30:37

Local clock offset: -7.934 ms

Remote clock offset: 4.659 ms

Below is generated by plot.py at 2018-07-24 10:47:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 56.44 Mbit/s

95th percentile per-packet one-way delay: 72.442 ms

Loss rate: 23.31%

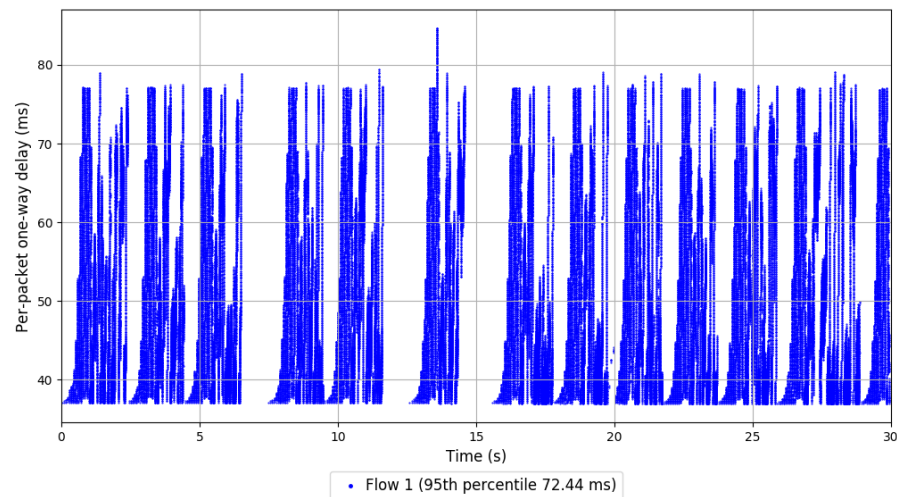
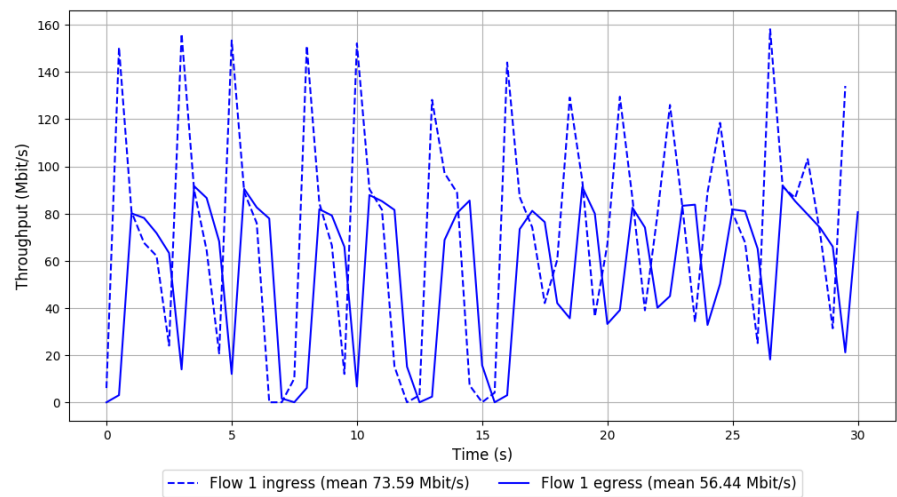
-- Flow 1:

Average throughput: 56.44 Mbit/s

95th percentile per-packet one-way delay: 72.442 ms

Loss rate: 23.31%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-07-24 07:52:23

End at: 2018-07-24 07:52:53

Local clock offset: -3.073 ms

Remote clock offset: 4.036 ms

Below is generated by plot.py at 2018-07-24 10:47:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 55.69 Mbit/s

95th percentile per-packet one-way delay: 72.672 ms

Loss rate: 22.14%

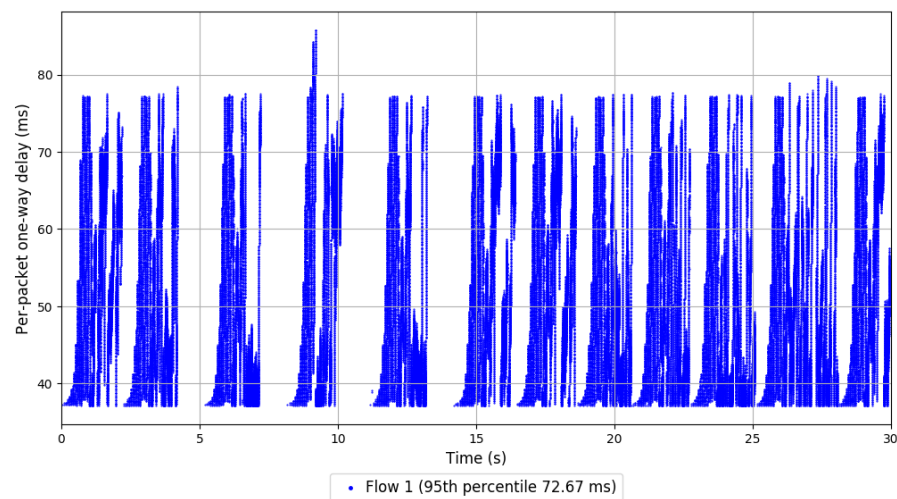
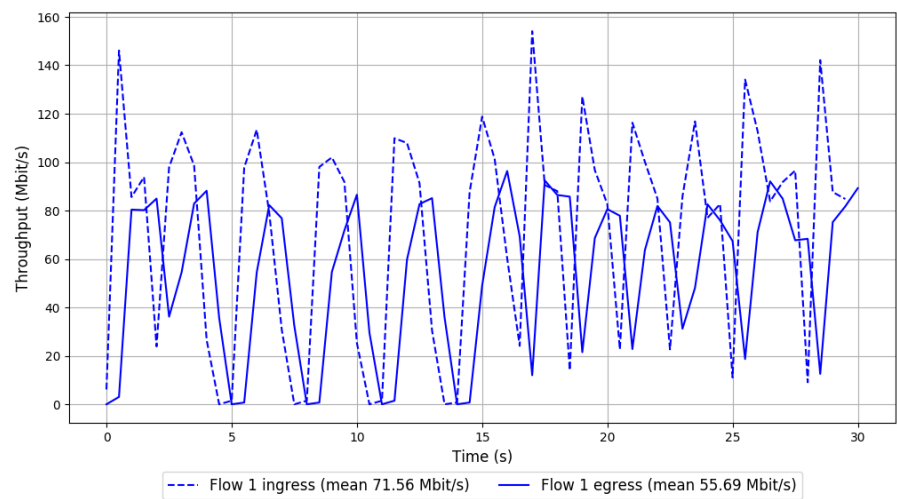
-- Flow 1:

Average throughput: 55.69 Mbit/s

95th percentile per-packet one-way delay: 72.672 ms

Loss rate: 22.14%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-07-24 08:14:42

End at: 2018-07-24 08:15:12

Local clock offset: -1.086 ms

Remote clock offset: 3.79 ms

Below is generated by plot.py at 2018-07-24 10:47:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 57.52 Mbit/s

95th percentile per-packet one-way delay: 71.607 ms

Loss rate: 20.58%

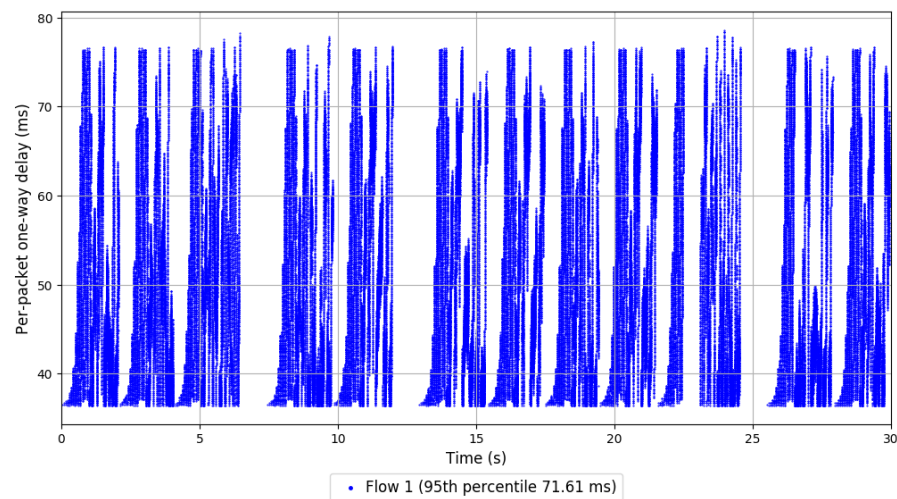
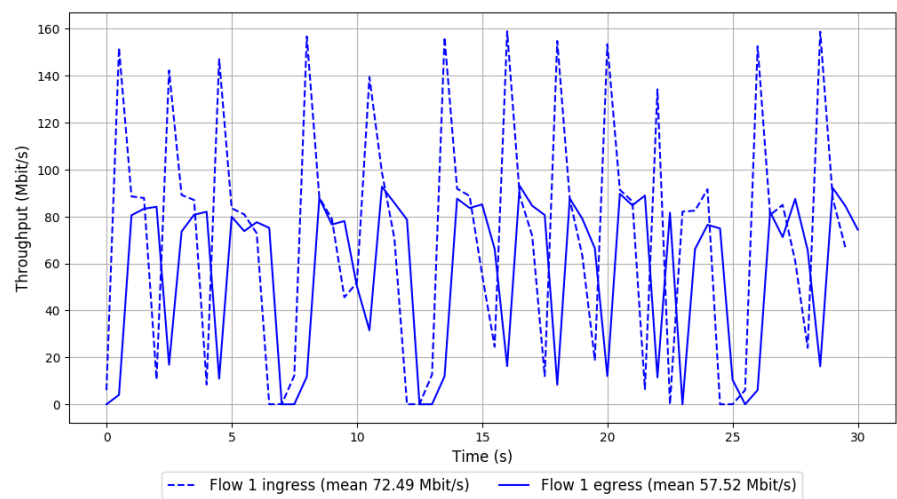
-- Flow 1:

Average throughput: 57.52 Mbit/s

95th percentile per-packet one-way delay: 71.607 ms

Loss rate: 20.58%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-07-24 08:37:02

End at: 2018-07-24 08:37:32

Local clock offset: -1.002 ms

Remote clock offset: 3.867 ms

Below is generated by plot.py at 2018-07-24 10:47:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 62.44 Mbit/s

95th percentile per-packet one-way delay: 72.525 ms

Loss rate: 22.25%

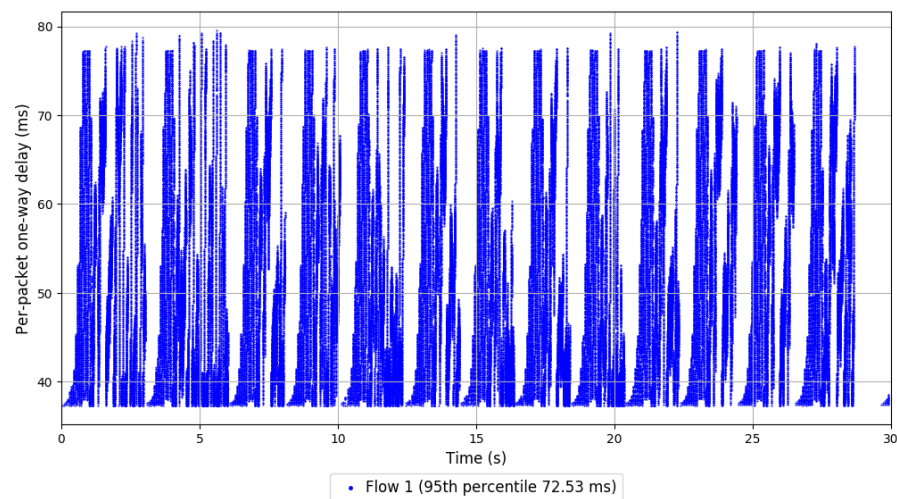
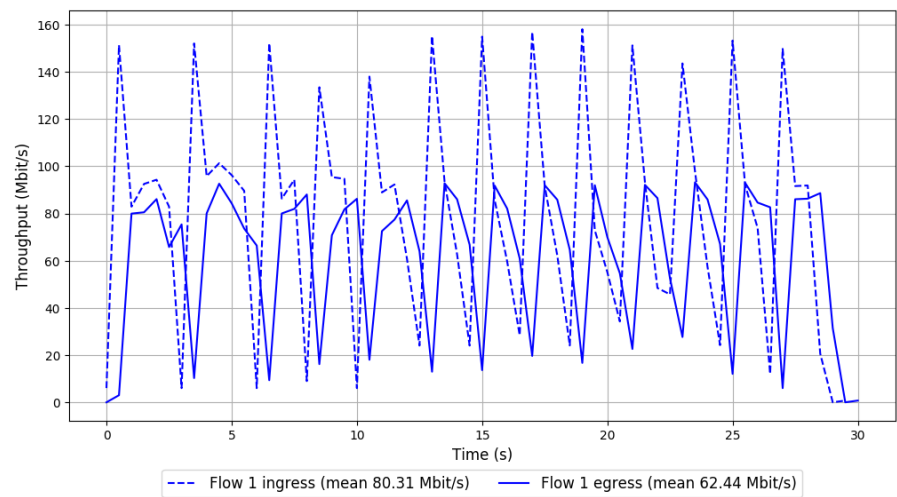
-- Flow 1:

Average throughput: 62.44 Mbit/s

95th percentile per-packet one-way delay: 72.525 ms

Loss rate: 22.25%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-07-24 08:59:19

End at: 2018-07-24 08:59:49

Local clock offset: -1.169 ms

Remote clock offset: 4.845 ms

Below is generated by plot.py at 2018-07-24 10:47:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 57.09 Mbit/s

95th percentile per-packet one-way delay: 72.608 ms

Loss rate: 22.12%

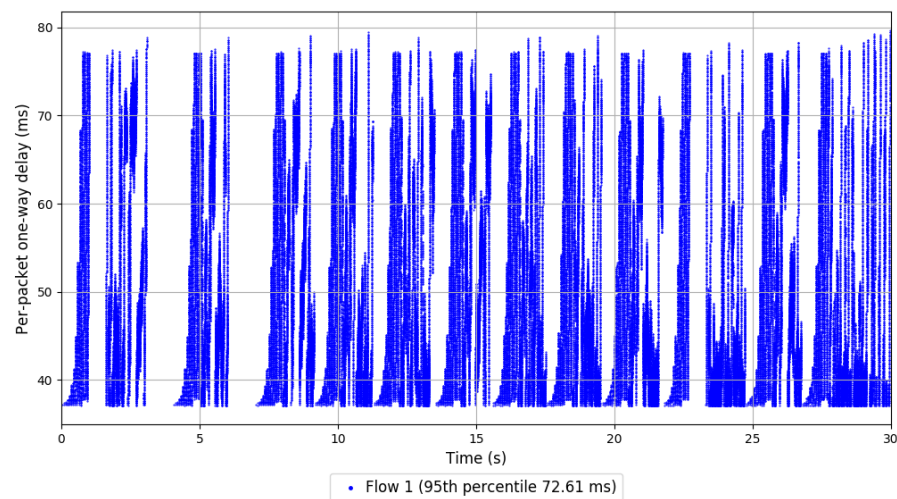
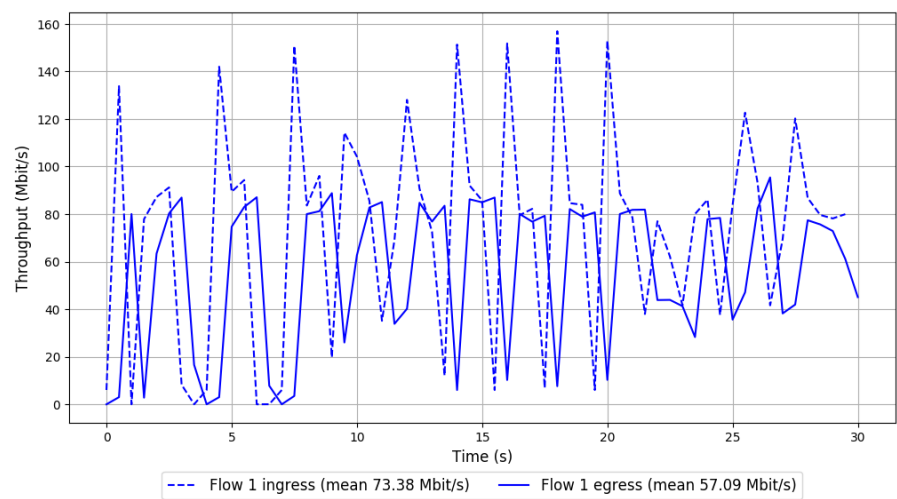
-- Flow 1:

Average throughput: 57.09 Mbit/s

95th percentile per-packet one-way delay: 72.608 ms

Loss rate: 22.12%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-07-24 09:21:35

End at: 2018-07-24 09:22:05

Local clock offset: -0.347 ms

Remote clock offset: 5.249 ms

Below is generated by plot.py at 2018-07-24 10:47:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 57.01 Mbit/s

95th percentile per-packet one-way delay: 72.822 ms

Loss rate: 21.03%

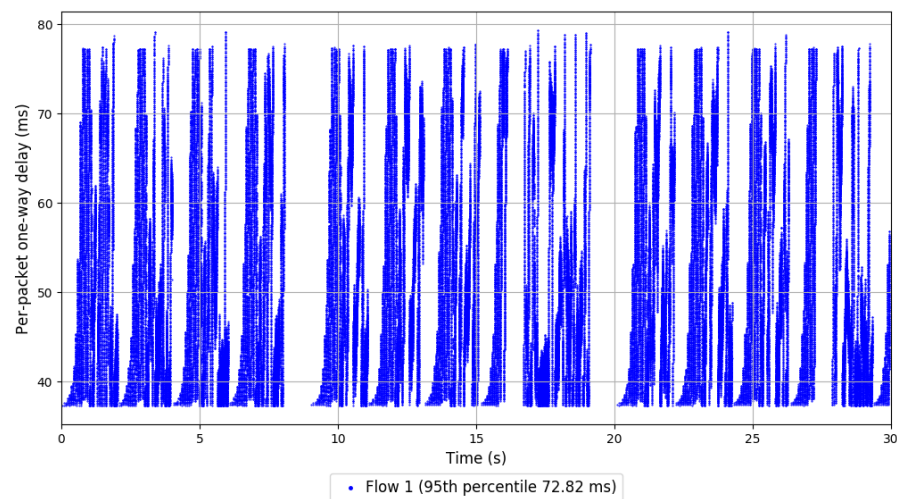
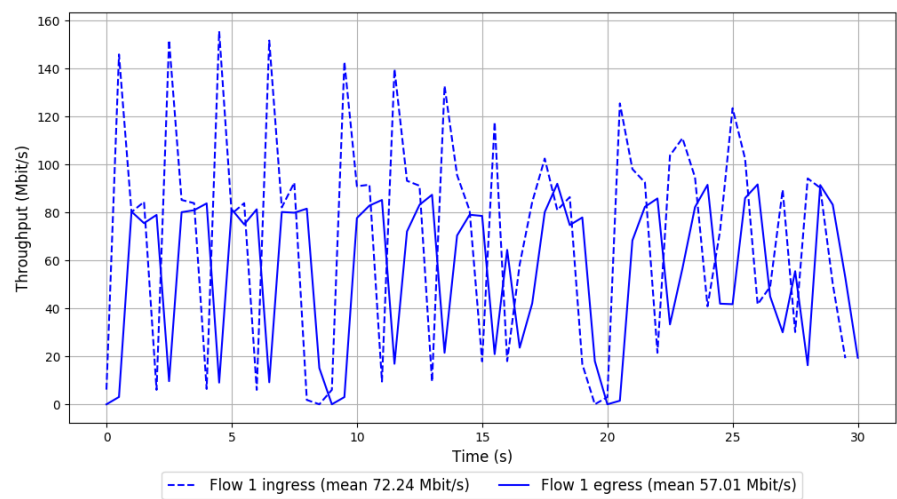
-- Flow 1:

Average throughput: 57.01 Mbit/s

95th percentile per-packet one-way delay: 72.822 ms

Loss rate: 21.03%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-07-24 09:43:47

End at: 2018-07-24 09:44:17

Local clock offset: 0.907 ms

Remote clock offset: 4.252 ms

Below is generated by plot.py at 2018-07-24 10:47:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 55.70 Mbit/s

95th percentile per-packet one-way delay: 72.670 ms

Loss rate: 42.89%

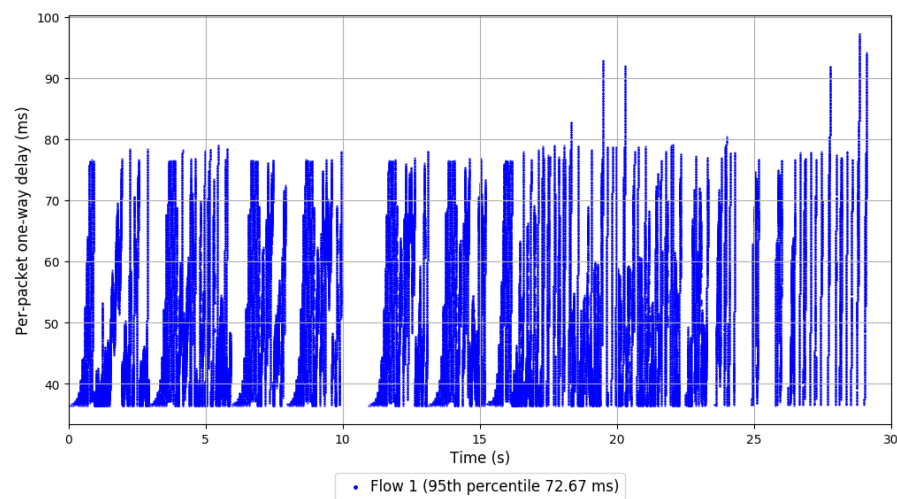
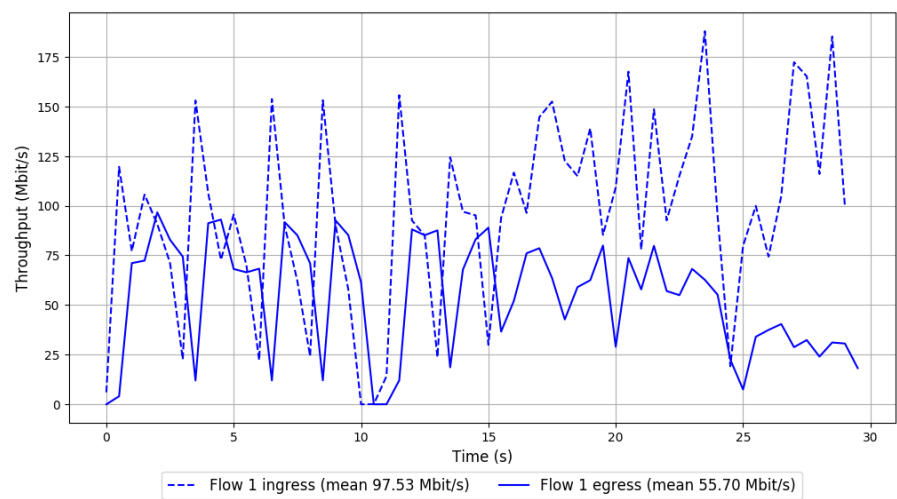
-- Flow 1:

Average throughput: 55.70 Mbit/s

95th percentile per-packet one-way delay: 72.670 ms

Loss rate: 42.89%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-07-24 10:06:02

End at: 2018-07-24 10:06:32

Local clock offset: 1.338 ms

Remote clock offset: 5.012 ms

Below is generated by plot.py at 2018-07-24 10:47:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 51.84 Mbit/s

95th percentile per-packet one-way delay: 72.650 ms

Loss rate: 21.11%

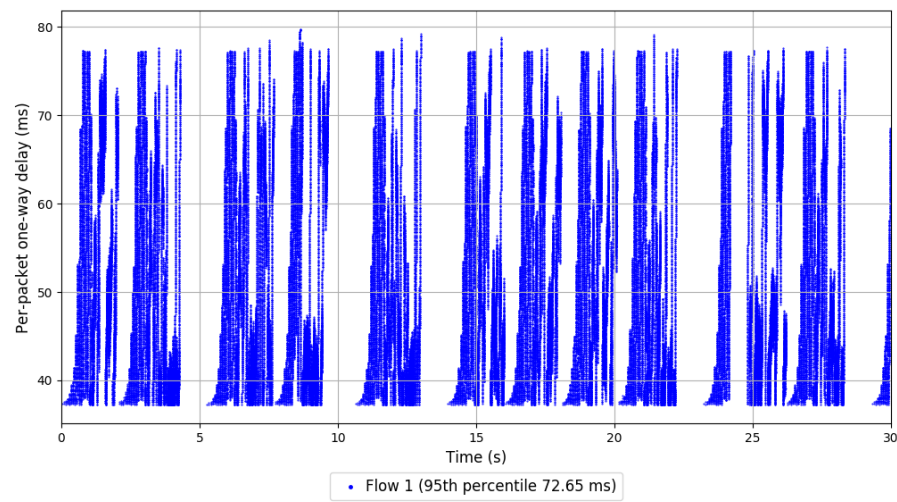
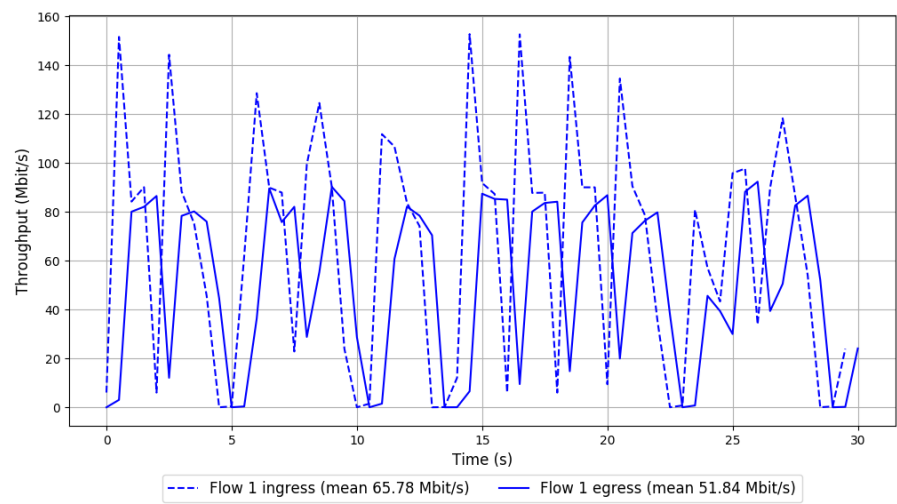
-- Flow 1:

Average throughput: 51.84 Mbit/s

95th percentile per-packet one-way delay: 72.650 ms

Loss rate: 21.11%

Run 10: Report of Verus — Data Link

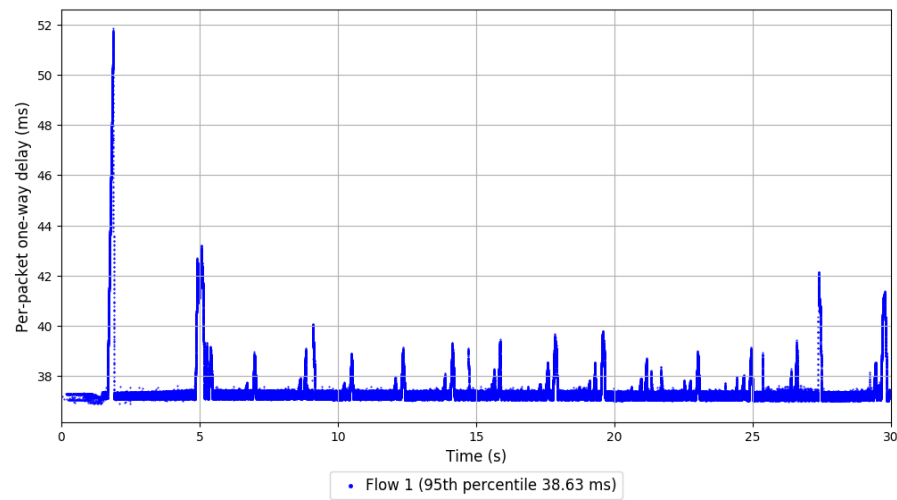
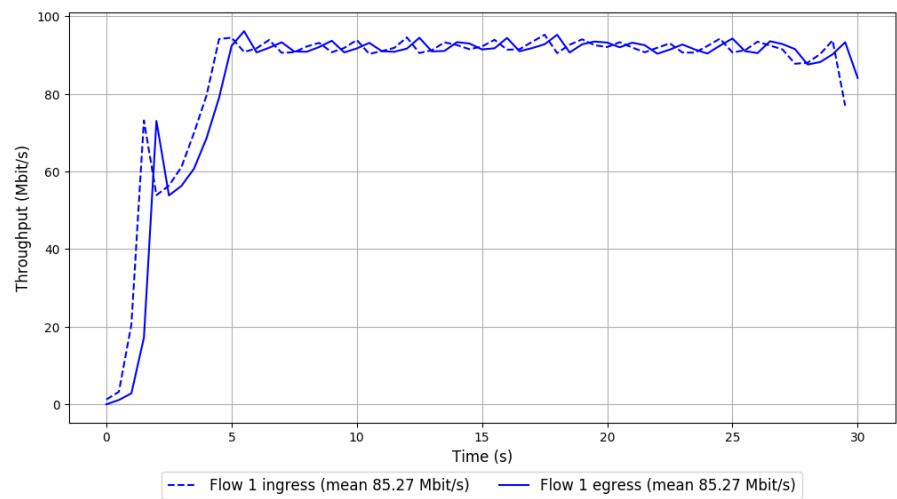


Run 1: Statistics of PCC-Vivace

Start at: 2018-07-24 06:49:31
End at: 2018-07-24 06:50:01
Local clock offset: -12.871 ms
Remote clock offset: 4.278 ms

Below is generated by plot.py at 2018-07-24 10:48:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 85.27 Mbit/s
95th percentile per-packet one-way delay: 38.626 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 85.27 Mbit/s
95th percentile per-packet one-way delay: 38.626 ms
Loss rate: 0.00%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2018-07-24 07:11:49

End at: 2018-07-24 07:12:19

Local clock offset: -7.553 ms

Remote clock offset: 4.488 ms

Below is generated by plot.py at 2018-07-24 10:48:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.08 Mbit/s

95th percentile per-packet one-way delay: 39.176 ms

Loss rate: 0.00%

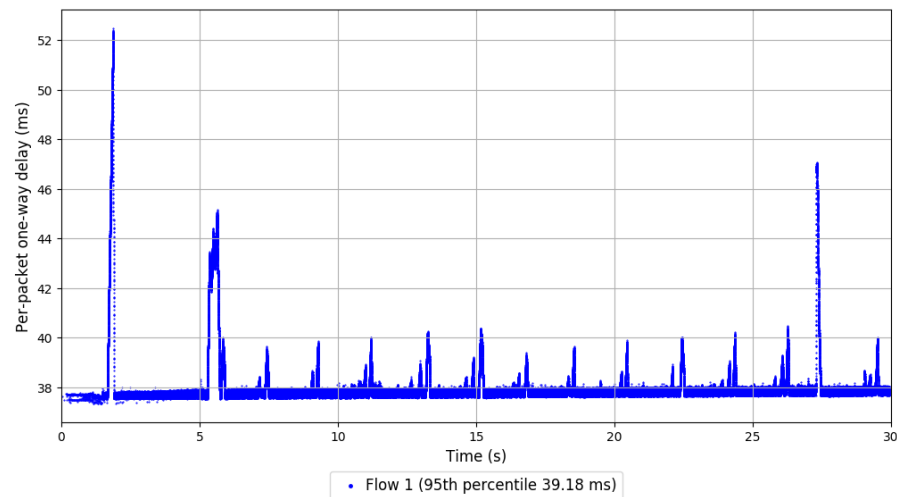
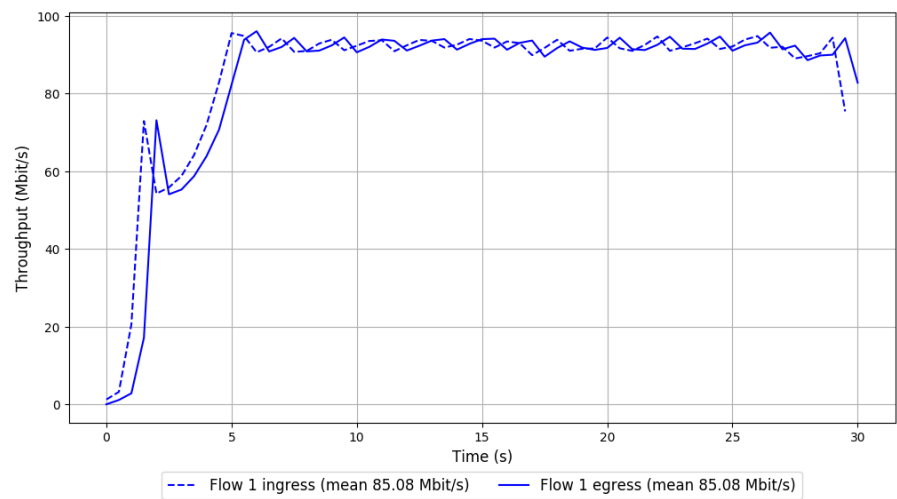
-- Flow 1:

Average throughput: 85.08 Mbit/s

95th percentile per-packet one-way delay: 39.176 ms

Loss rate: 0.00%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-07-24 07:34:03

End at: 2018-07-24 07:34:33

Local clock offset: -6.73 ms

Remote clock offset: 4.644 ms

Below is generated by plot.py at 2018-07-24 10:48:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.16 Mbit/s

95th percentile per-packet one-way delay: 39.740 ms

Loss rate: 0.00%

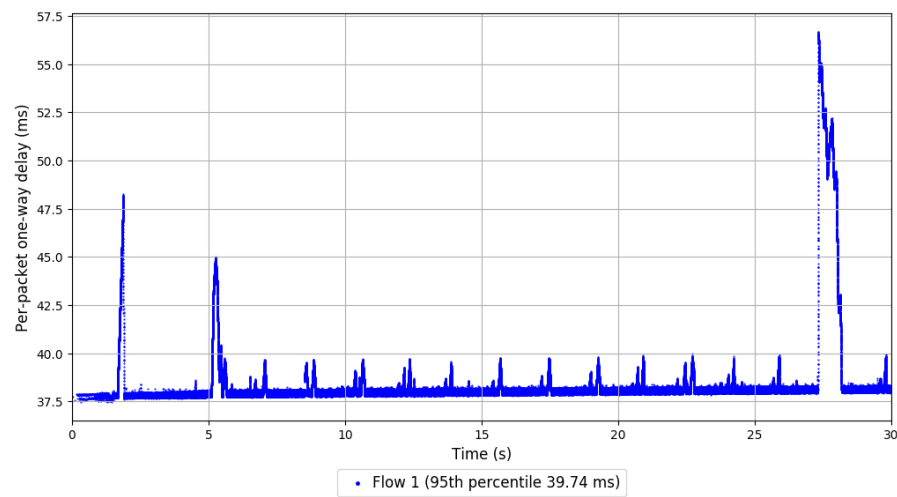
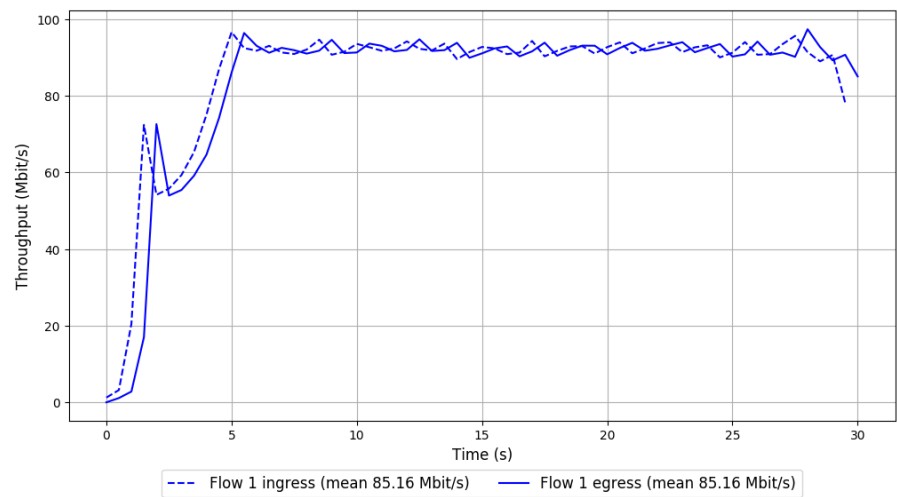
-- Flow 1:

Average throughput: 85.16 Mbit/s

95th percentile per-packet one-way delay: 39.740 ms

Loss rate: 0.00%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2018-07-24 07:56:20

End at: 2018-07-24 07:56:50

Local clock offset: -3.375 ms

Remote clock offset: 3.977 ms

Below is generated by plot.py at 2018-07-24 10:48:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.51 Mbit/s

95th percentile per-packet one-way delay: 39.051 ms

Loss rate: 0.00%

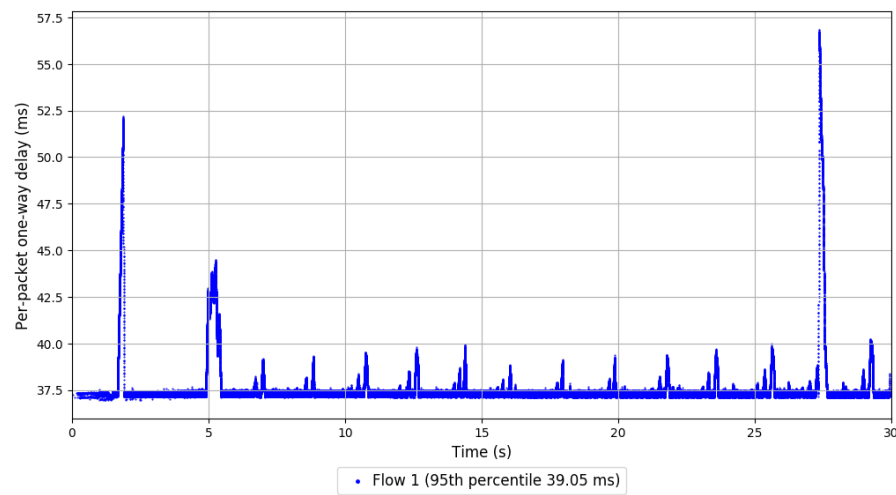
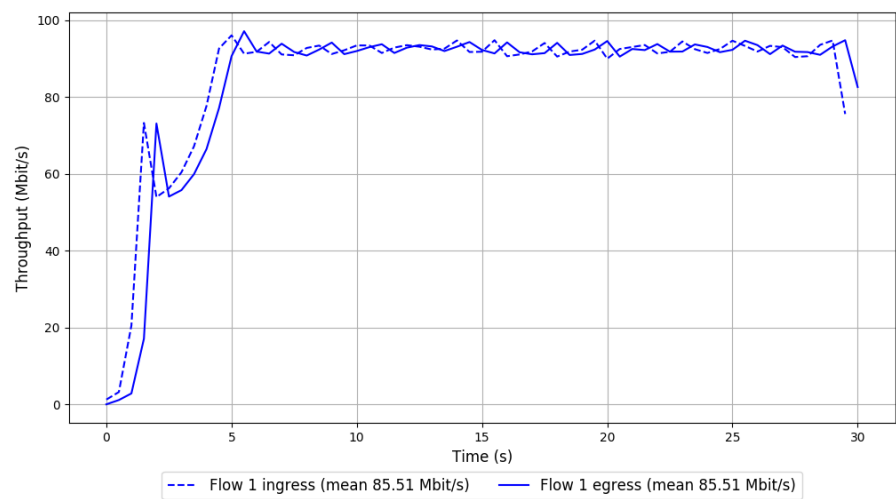
-- Flow 1:

Average throughput: 85.51 Mbit/s

95th percentile per-packet one-way delay: 39.051 ms

Loss rate: 0.00%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2018-07-24 08:18:38

End at: 2018-07-24 08:19:08

Local clock offset: -0.963 ms

Remote clock offset: 1.535 ms

Below is generated by plot.py at 2018-07-24 10:48:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.40 Mbit/s

95th percentile per-packet one-way delay: 36.757 ms

Loss rate: 0.00%

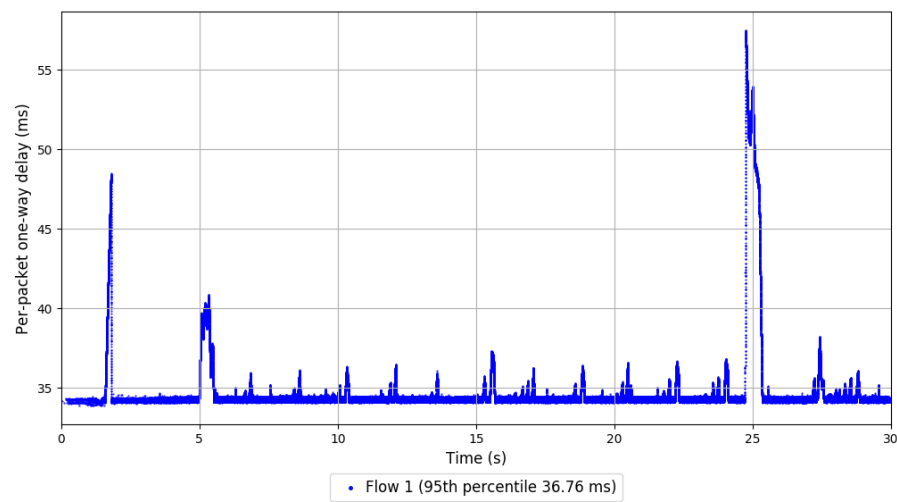
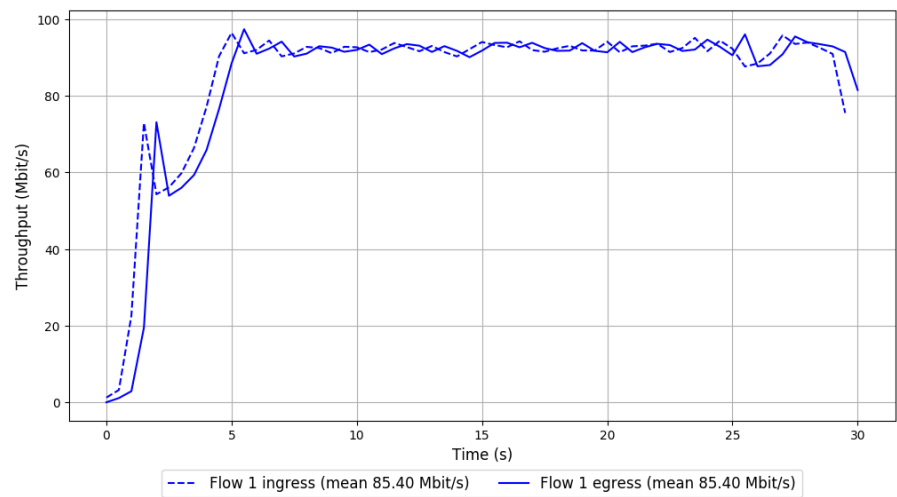
-- Flow 1:

Average throughput: 85.40 Mbit/s

95th percentile per-packet one-way delay: 36.757 ms

Loss rate: 0.00%

Run 5: Report of PCC-Vivace — Data Link



Run 6: Statistics of PCC-Vivace

Start at: 2018-07-24 08:40:59

End at: 2018-07-24 08:41:30

Local clock offset: -0.814 ms

Remote clock offset: 3.812 ms

Below is generated by plot.py at 2018-07-24 10:49:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.85 Mbit/s

95th percentile per-packet one-way delay: 52.546 ms

Loss rate: 0.00%

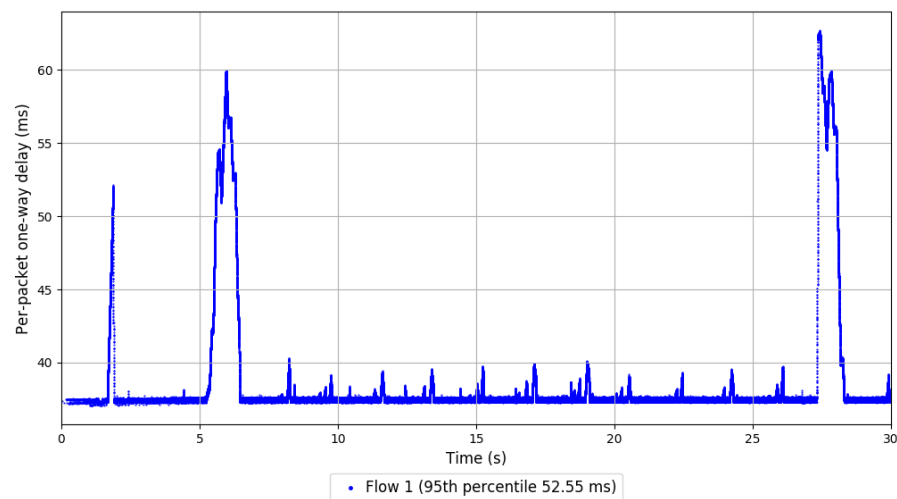
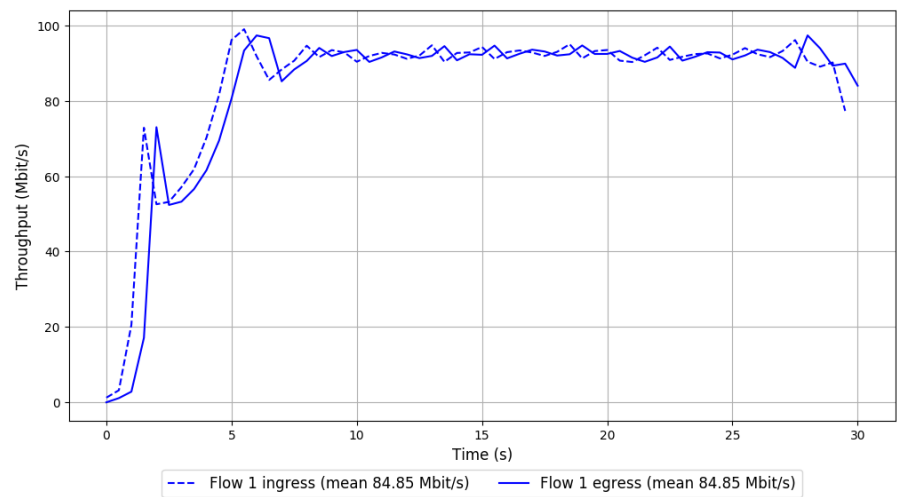
-- Flow 1:

Average throughput: 84.85 Mbit/s

95th percentile per-packet one-way delay: 52.546 ms

Loss rate: 0.00%

Run 6: Report of PCC-Vivace — Data Link



Run 7: Statistics of PCC-Vivace

Start at: 2018-07-24 09:03:15

End at: 2018-07-24 09:03:45

Local clock offset: -1.15 ms

Remote clock offset: 4.98 ms

Below is generated by plot.py at 2018-07-24 10:49:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.34 Mbit/s

95th percentile per-packet one-way delay: 38.679 ms

Loss rate: 0.00%

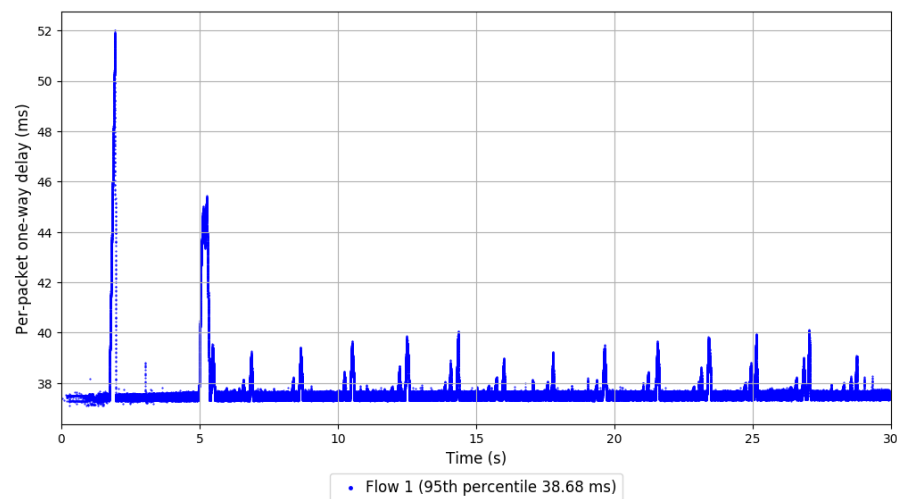
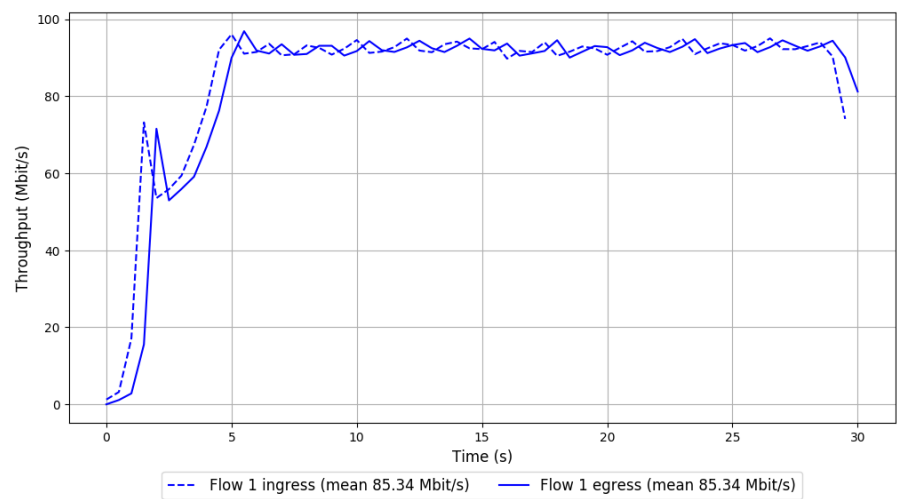
-- Flow 1:

Average throughput: 85.34 Mbit/s

95th percentile per-packet one-way delay: 38.679 ms

Loss rate: 0.00%

Run 7: Report of PCC-Vivace — Data Link



Run 8: Statistics of PCC-Vivace

Start at: 2018-07-24 09:25:30

End at: 2018-07-24 09:26:00

Local clock offset: -0.498 ms

Remote clock offset: 4.833 ms

Below is generated by plot.py at 2018-07-24 10:49:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.89 Mbit/s

95th percentile per-packet one-way delay: 47.661 ms

Loss rate: 0.00%

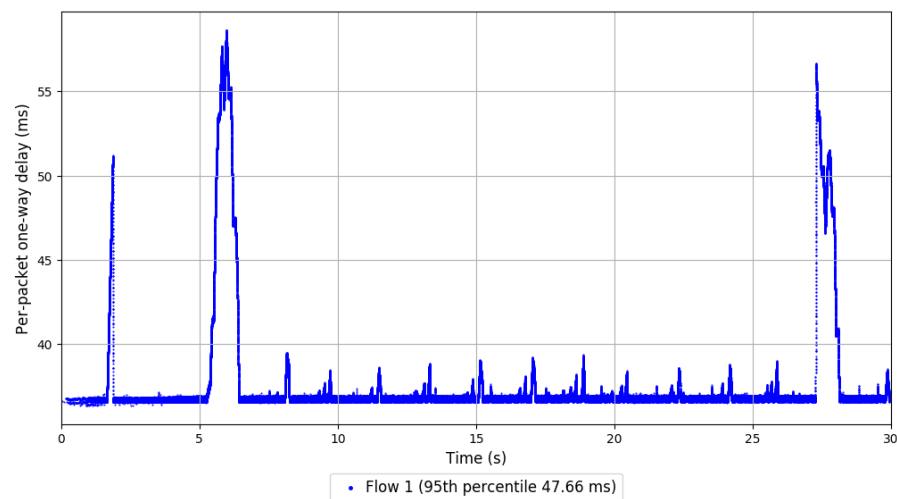
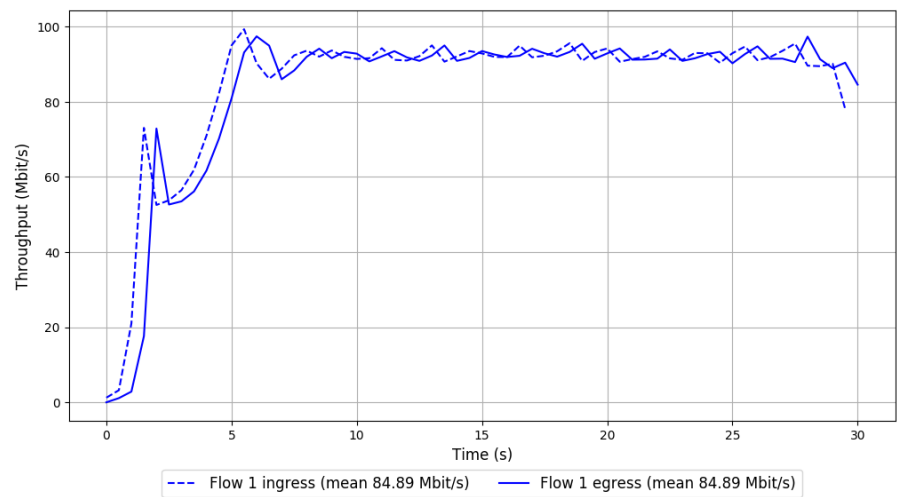
-- Flow 1:

Average throughput: 84.89 Mbit/s

95th percentile per-packet one-way delay: 47.661 ms

Loss rate: 0.00%

Run 8: Report of PCC-Vivace — Data Link



Run 9: Statistics of PCC-Vivace

Start at: 2018-07-24 09:47:43

End at: 2018-07-24 09:48:13

Local clock offset: 0.983 ms

Remote clock offset: 4.219 ms

Below is generated by plot.py at 2018-07-24 10:49:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.88 Mbit/s

95th percentile per-packet one-way delay: 38.068 ms

Loss rate: 0.00%

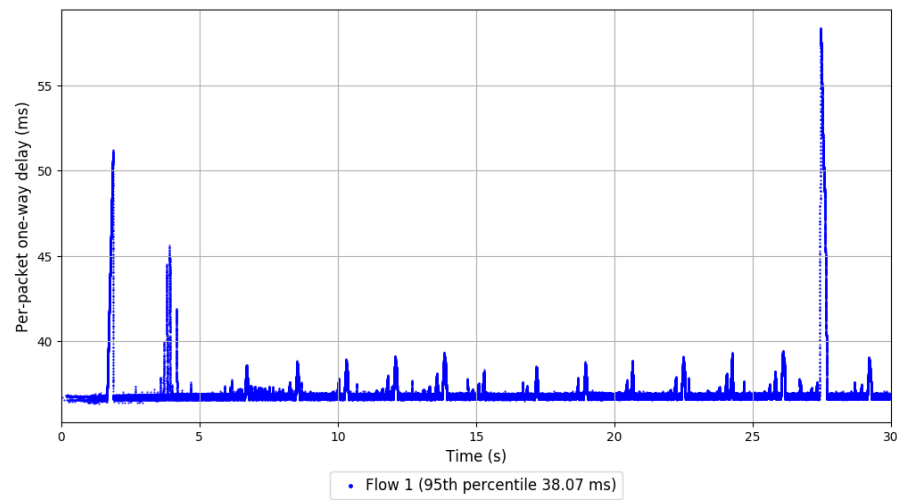
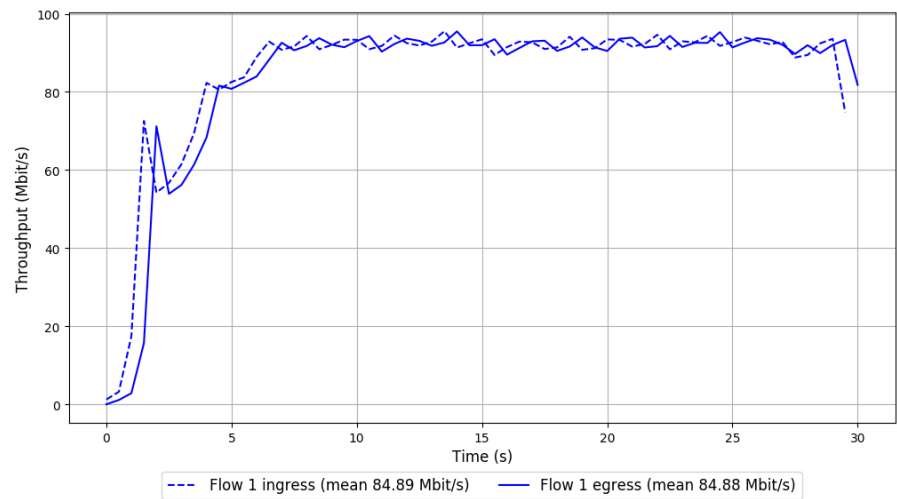
-- Flow 1:

Average throughput: 84.88 Mbit/s

95th percentile per-packet one-way delay: 38.068 ms

Loss rate: 0.00%

Run 9: Report of PCC-Vivace — Data Link



Run 10: Statistics of PCC-Vivace

Start at: 2018-07-24 10:09:57

End at: 2018-07-24 10:10:27

Local clock offset: 1.433 ms

Remote clock offset: 5.161 ms

Below is generated by plot.py at 2018-07-24 10:49:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.03 Mbit/s

95th percentile per-packet one-way delay: 42.011 ms

Loss rate: 0.01%

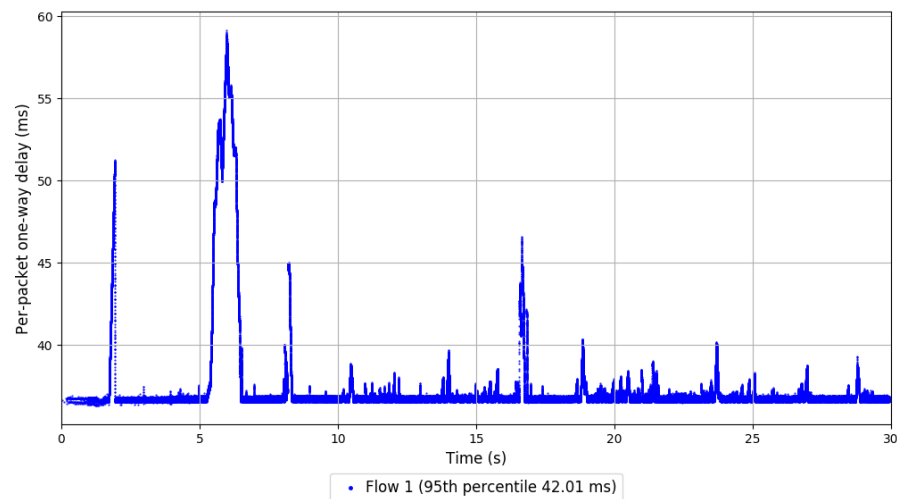
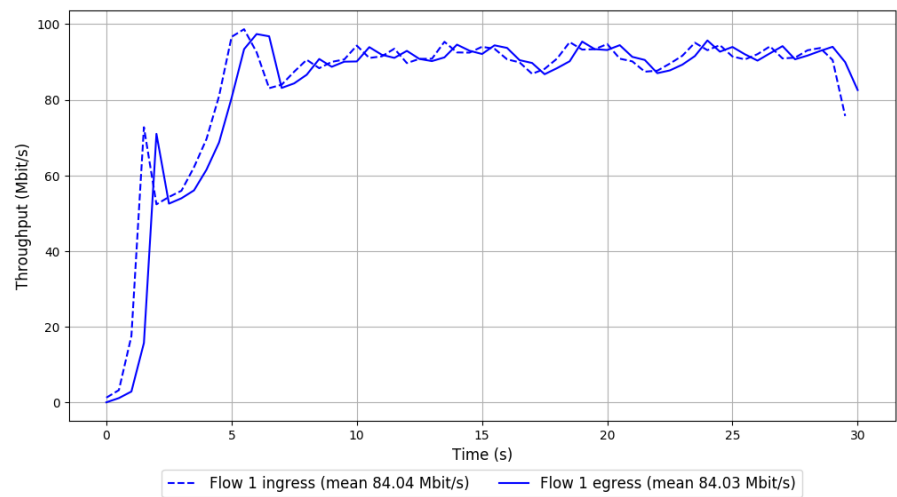
-- Flow 1:

Average throughput: 84.03 Mbit/s

95th percentile per-packet one-way delay: 42.011 ms

Loss rate: 0.01%

Run 10: Report of PCC-Vivace — Data Link

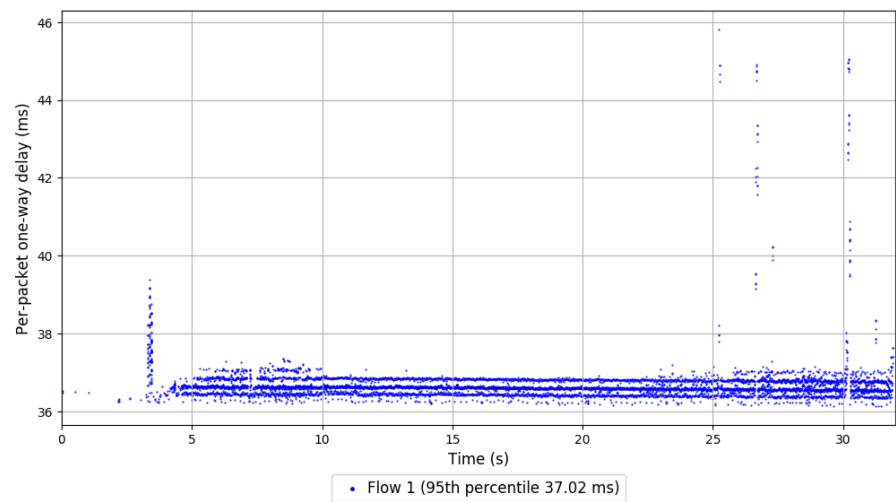
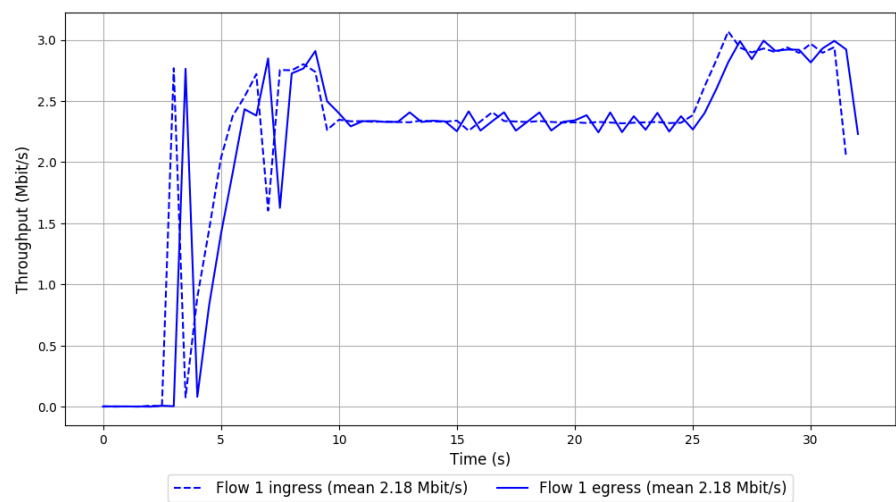


Run 1: Statistics of WebRTC media

Start at: 2018-07-24 06:52:11
End at: 2018-07-24 06:52:41
Local clock offset: -13.437 ms
Remote clock offset: 4.334 ms

Below is generated by plot.py at 2018-07-24 10:49:15
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.18 Mbit/s
95th percentile per-packet one-way delay: 37.018 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 2.18 Mbit/s
95th percentile per-packet one-way delay: 37.018 ms
Loss rate: 0.14%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-07-24 07:14:29

End at: 2018-07-24 07:14:59

Local clock offset: -6.696 ms

Remote clock offset: 4.467 ms

Below is generated by plot.py at 2018-07-24 10:49:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.99 Mbit/s

95th percentile per-packet one-way delay: 37.031 ms

Loss rate: 0.00%

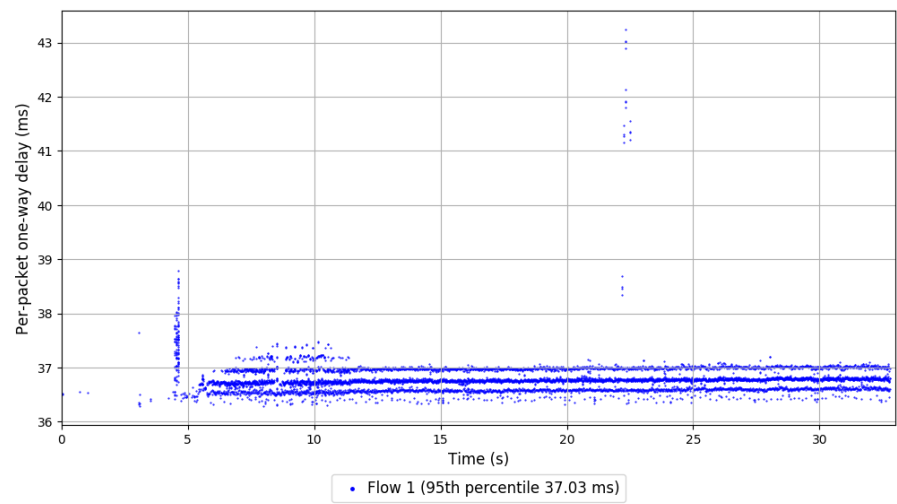
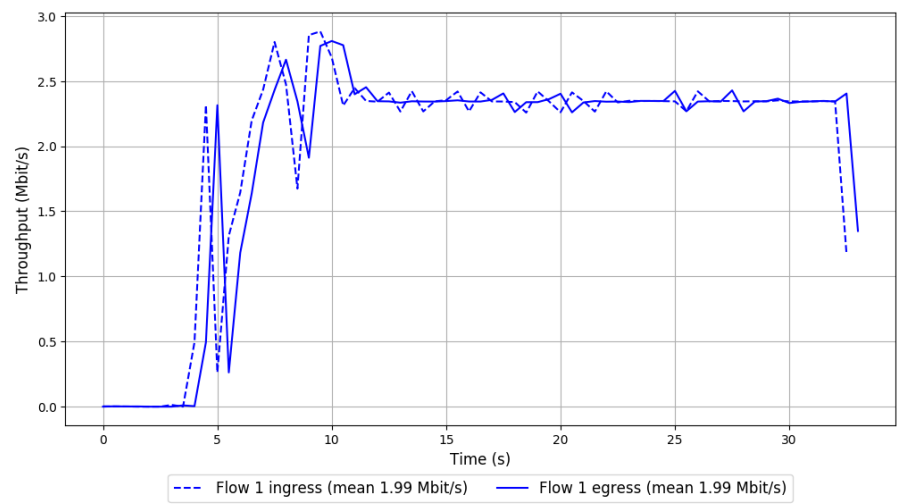
-- Flow 1:

Average throughput: 1.99 Mbit/s

95th percentile per-packet one-way delay: 37.031 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-07-24 07:36:44

End at: 2018-07-24 07:37:14

Local clock offset: -5.183 ms

Remote clock offset: 2.316 ms

Below is generated by plot.py at 2018-07-24 10:49:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.98 Mbit/s

95th percentile per-packet one-way delay: 35.757 ms

Loss rate: 0.00%

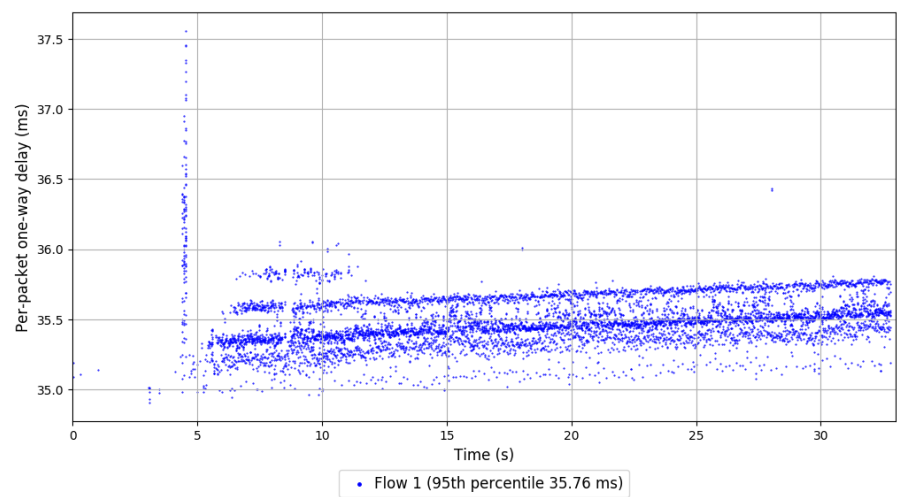
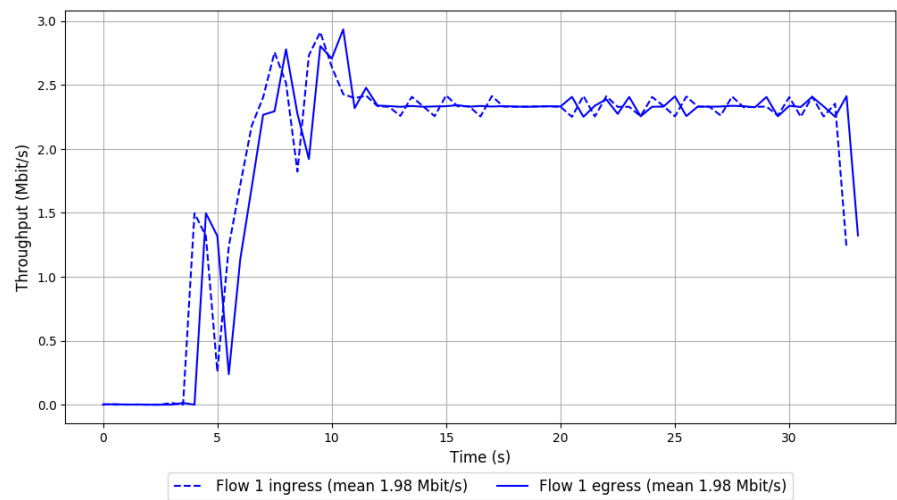
-- Flow 1:

Average throughput: 1.98 Mbit/s

95th percentile per-packet one-way delay: 35.757 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-07-24 07:59:01

End at: 2018-07-24 07:59:31

Local clock offset: -3.661 ms

Remote clock offset: 4.014 ms

Below is generated by plot.py at 2018-07-24 10:49:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.98 Mbit/s

95th percentile per-packet one-way delay: 37.611 ms

Loss rate: 0.00%

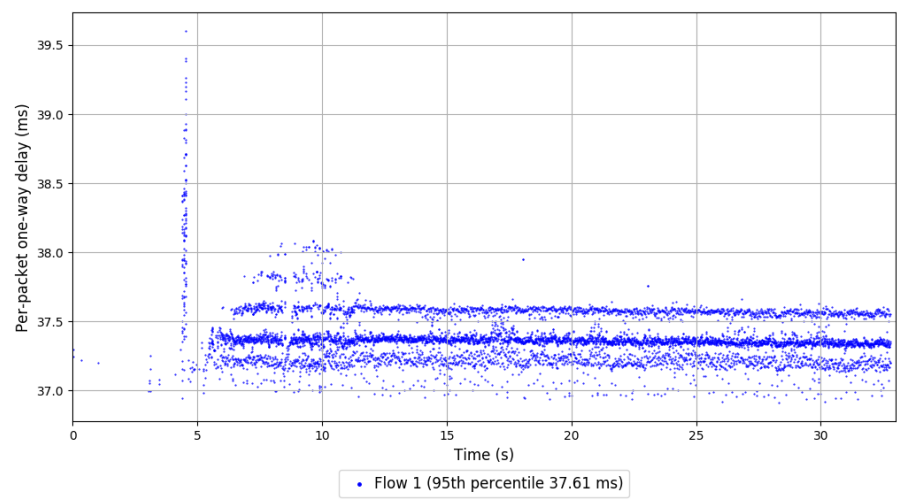
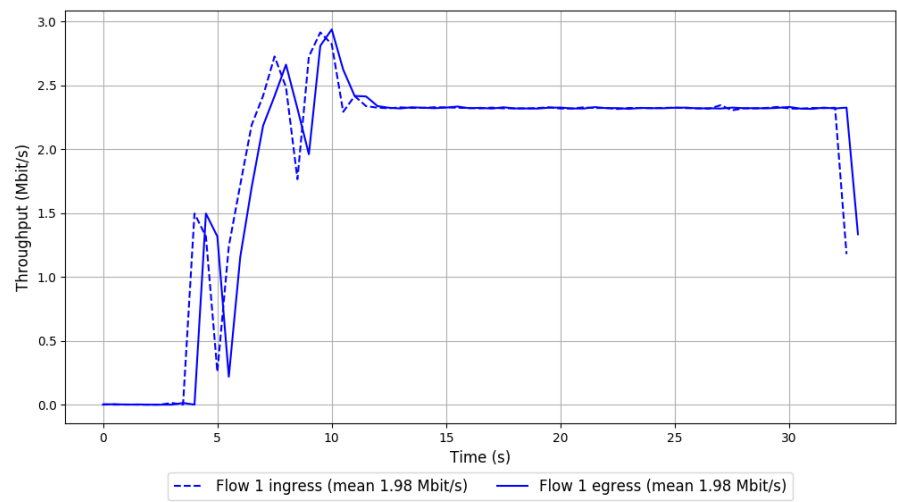
-- Flow 1:

Average throughput: 1.98 Mbit/s

95th percentile per-packet one-way delay: 37.611 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-07-24 08:21:20

End at: 2018-07-24 08:21:50

Local clock offset: -1.104 ms

Remote clock offset: 3.925 ms

Below is generated by plot.py at 2018-07-24 10:49:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.98 Mbit/s

95th percentile per-packet one-way delay: 37.752 ms

Loss rate: 0.00%

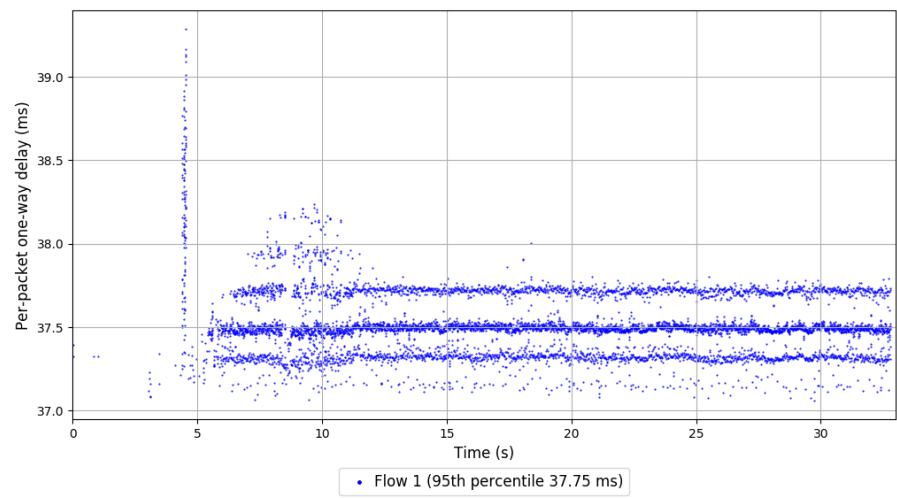
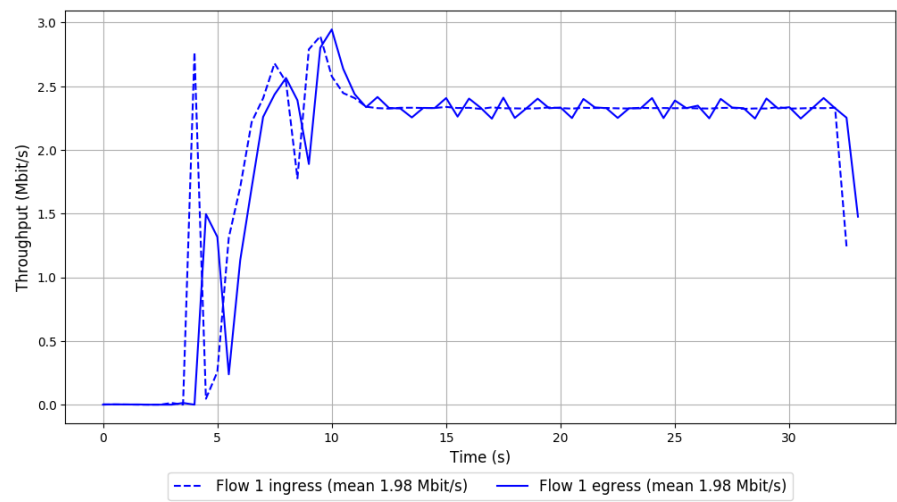
-- Flow 1:

Average throughput: 1.98 Mbit/s

95th percentile per-packet one-way delay: 37.752 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-07-24 08:43:40

End at: 2018-07-24 08:44:10

Local clock offset: -0.668 ms

Remote clock offset: 3.754 ms

Below is generated by plot.py at 2018-07-24 10:49:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.96 Mbit/s

95th percentile per-packet one-way delay: 37.603 ms

Loss rate: 0.00%

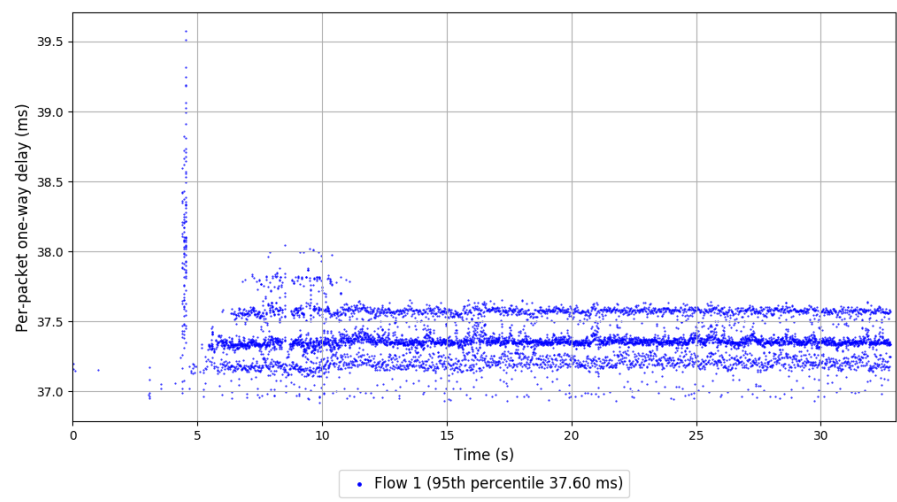
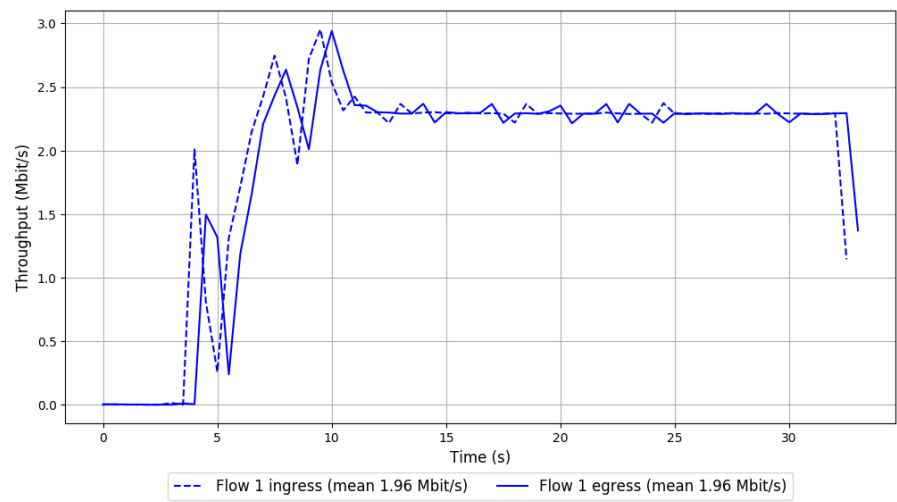
-- Flow 1:

Average throughput: 1.96 Mbit/s

95th percentile per-packet one-way delay: 37.603 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-07-24 09:05:56

End at: 2018-07-24 09:06:26

Local clock offset: -0.849 ms

Remote clock offset: 2.801 ms

Below is generated by plot.py at 2018-07-24 10:49:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.97 Mbit/s

95th percentile per-packet one-way delay: 35.438 ms

Loss rate: 0.00%

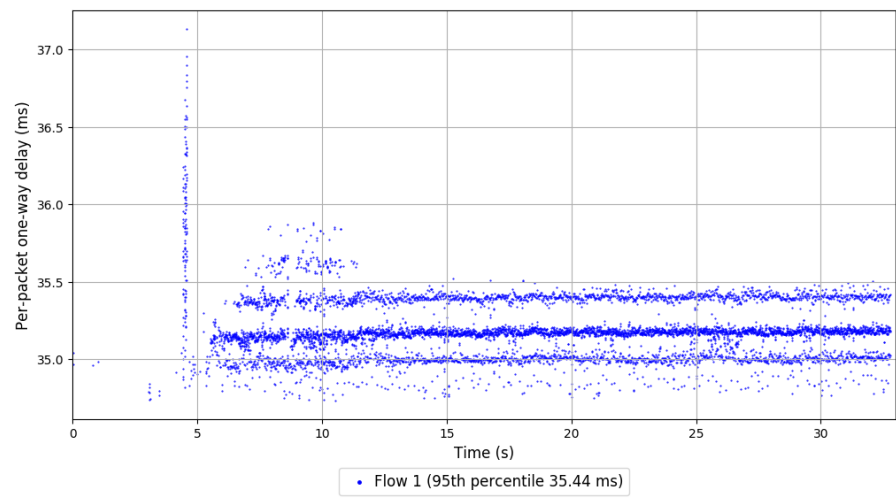
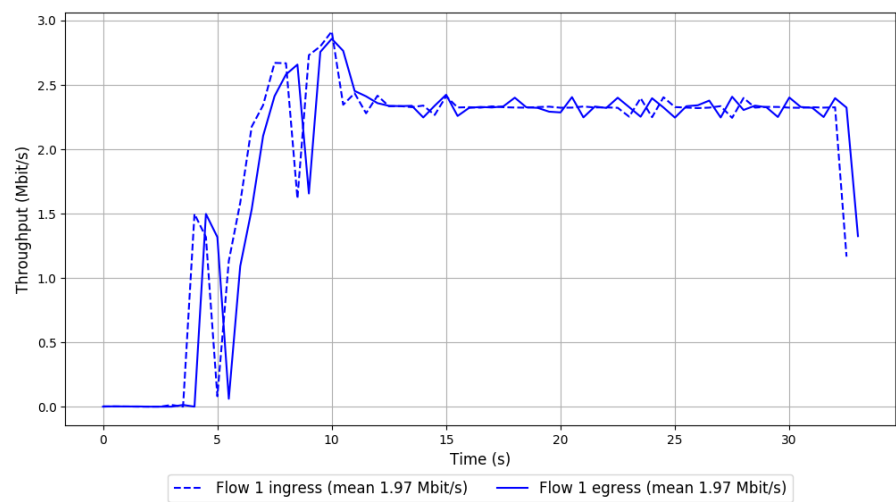
-- Flow 1:

Average throughput: 1.97 Mbit/s

95th percentile per-packet one-way delay: 35.438 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-07-24 09:28:10

End at: 2018-07-24 09:28:40

Local clock offset: -0.437 ms

Remote clock offset: 4.699 ms

Below is generated by plot.py at 2018-07-24 10:49:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.97 Mbit/s

95th percentile per-packet one-way delay: 37.679 ms

Loss rate: 0.00%

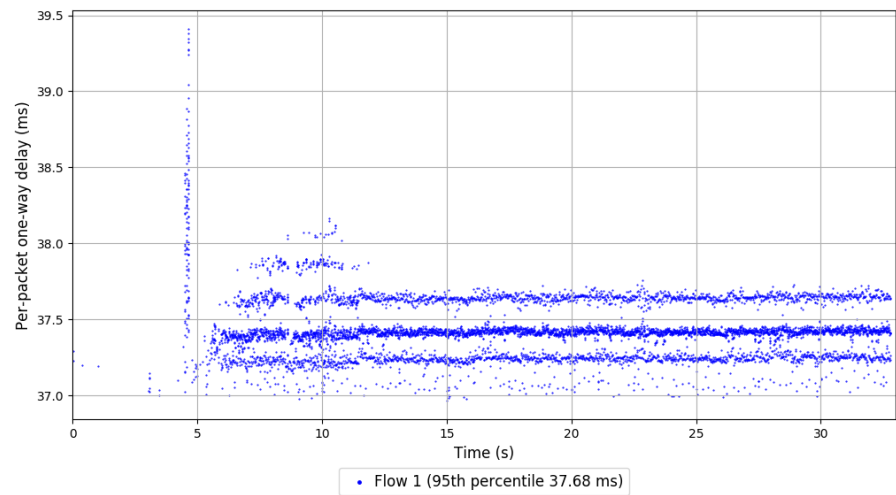
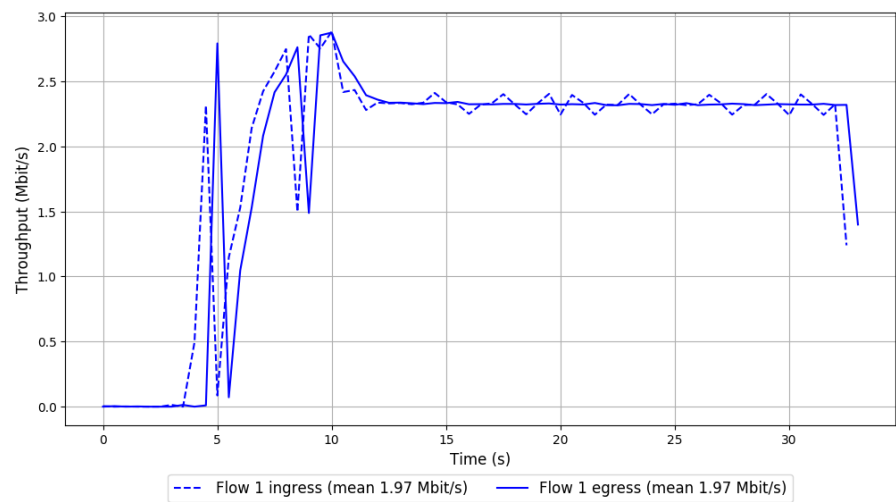
-- Flow 1:

Average throughput: 1.97 Mbit/s

95th percentile per-packet one-way delay: 37.679 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-07-24 09:50:25

End at: 2018-07-24 09:50:55

Local clock offset: 1.053 ms

Remote clock offset: 4.096 ms

Below is generated by plot.py at 2018-07-24 10:49:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.97 Mbit/s

95th percentile per-packet one-way delay: 36.943 ms

Loss rate: 0.00%

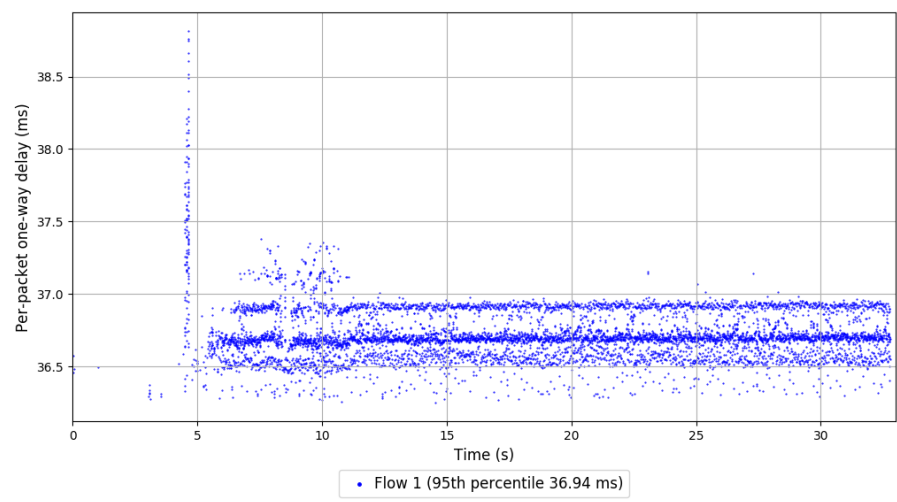
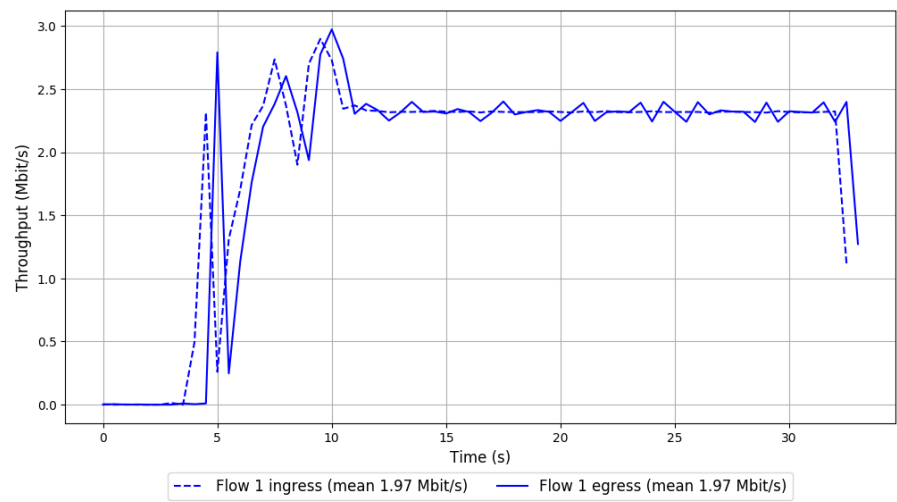
-- Flow 1:

Average throughput: 1.97 Mbit/s

95th percentile per-packet one-way delay: 36.943 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-07-24 10:12:37

End at: 2018-07-24 10:13:07

Local clock offset: 1.495 ms

Remote clock offset: 5.215 ms

Below is generated by plot.py at 2018-07-24 10:49:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.98 Mbit/s

95th percentile per-packet one-way delay: 37.662 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.98 Mbit/s

95th percentile per-packet one-way delay: 37.662 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

