

Pantheon Report

Generated at 2018-07-25 06:01:52 (UTC).

Data path: Stanford Ethernet (*remote*) → AWS California 1 Ethernet (*local*).

Repeated the test of 17 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

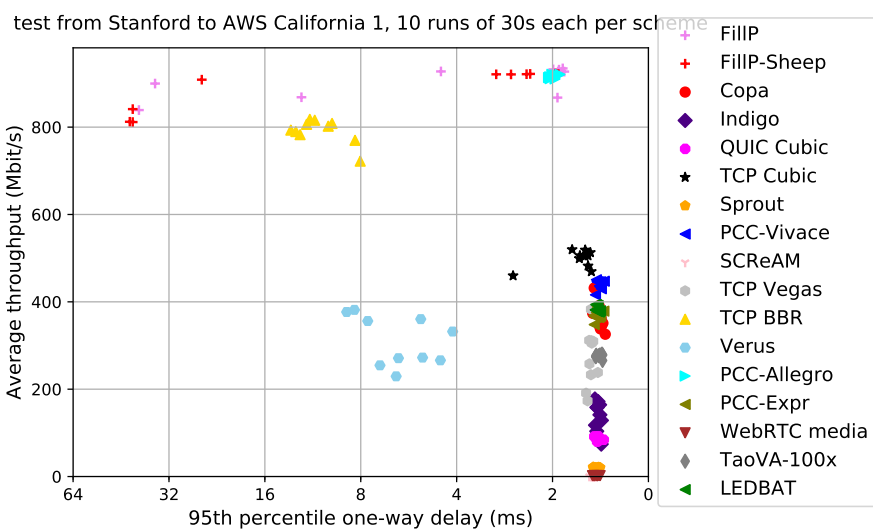
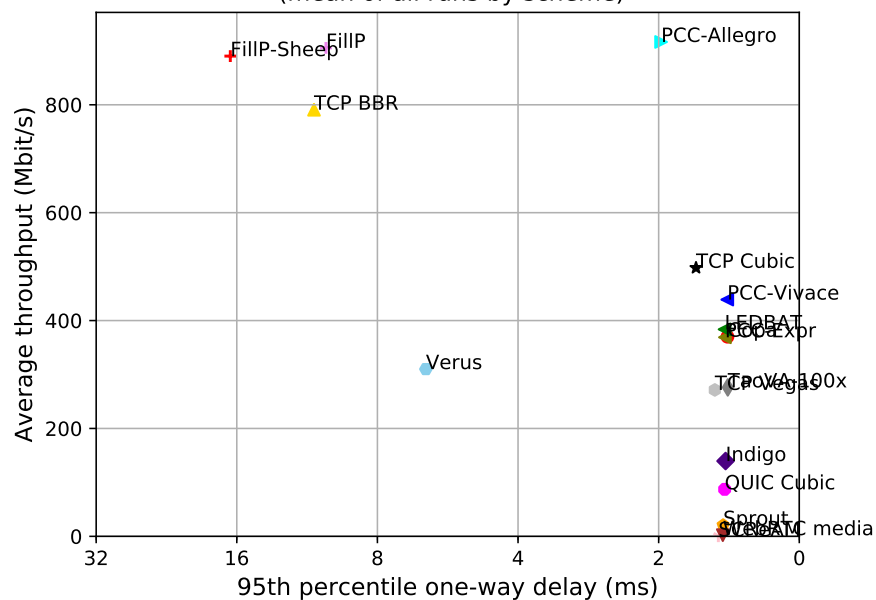
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

Git summary:

```
branch: master @ 640164b5b17c7c6561fff57729b3b5935d8596ce
third_party/fillp @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/fillp-sheep @ daed0c84f98531712514b2231f43ec6901114ffe
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf5e58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ 6f038ed31259d366f9840f65b82cbe8f464b1b39
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
```

test from Stanford to AWS California 1, 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	790.85	10.93	0.09
Copa	10	370.07	1.02	0.06
TCP Cubic	10	497.76	1.47	0.07
FillP	10	905.48	10.31	0.51
FillP-Sheep	10	890.25	16.52	1.97
Indigo	10	139.59	1.05	0.08
LEDBAT	10	383.72	1.06	0.08
PCC-Allegro	10	916.46	1.97	0.07
PCC-Expr	10	368.97	1.06	0.06
QUIC Cubic	10	87.13	1.06	0.07
SCReAM	10	0.22	1.15	0.09
Sprout	10	20.85	1.08	0.08
TaoVA-100x	10	276.09	1.02	0.06
TCP Vegas	10	271.41	1.20	0.05
Verus	10	310.04	6.30	0.06
PCC-Vivace	10	438.88	1.02	0.06
WebRTC media	10	2.15	1.09	0.06

Run 1: Statistics of TCP BBR

Start at: 2018-07-24 23:46:15

End at: 2018-07-24 23:46:45

Local clock offset: 3.428 ms

Remote clock offset: 0.63 ms

Below is generated by plot.py at 2018-07-25 04:18:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 789.88 Mbit/s

95th percentile per-packet one-way delay: 12.792 ms

Loss rate: 0.10%

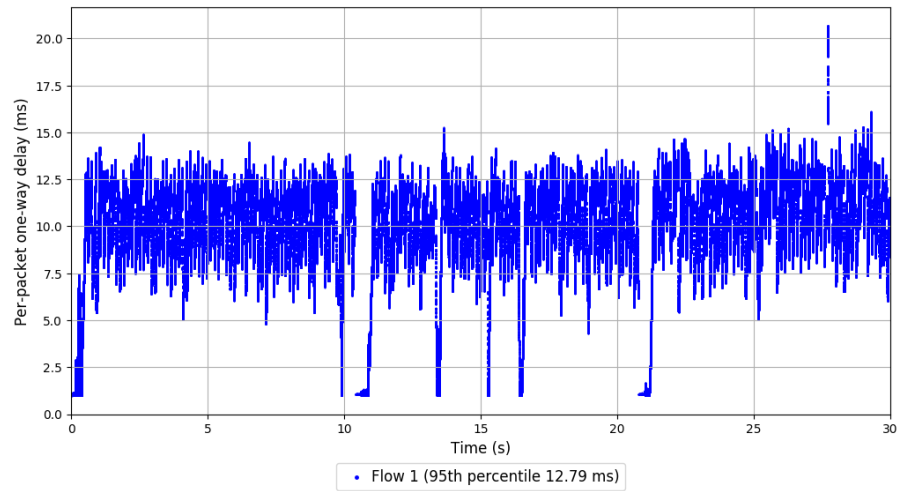
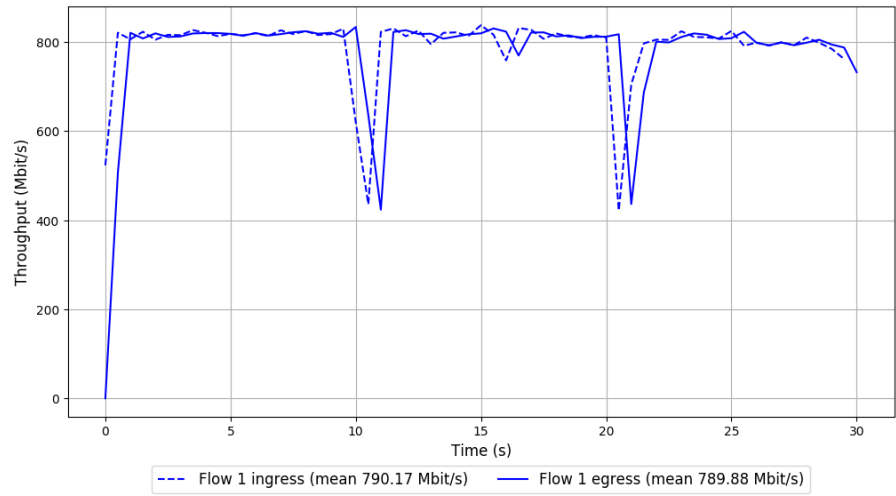
-- Flow 1:

Average throughput: 789.88 Mbit/s

95th percentile per-packet one-way delay: 12.792 ms

Loss rate: 0.10%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-07-25 00:12:05

End at: 2018-07-25 00:12:35

Local clock offset: 3.494 ms

Remote clock offset: 1.166 ms

Below is generated by plot.py at 2018-07-25 04:18:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 802.14 Mbit/s

95th percentile per-packet one-way delay: 10.119 ms

Loss rate: 0.09%

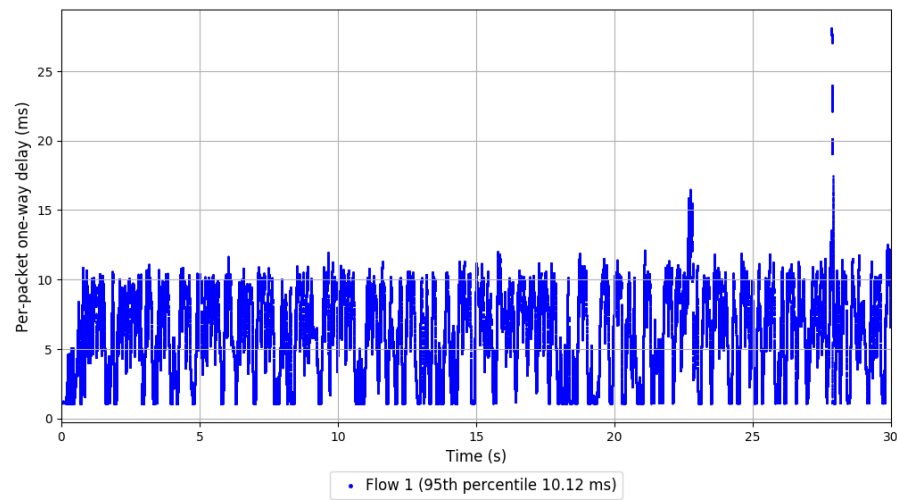
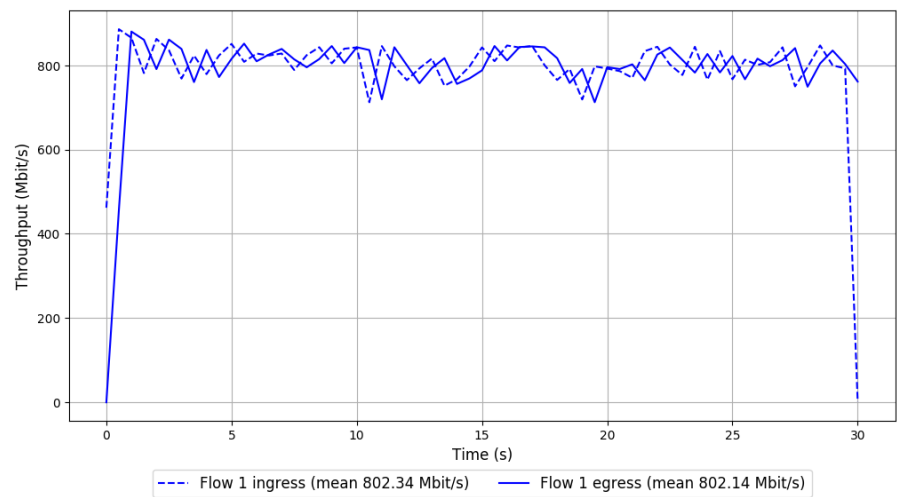
-- Flow 1:

Average throughput: 802.14 Mbit/s

95th percentile per-packet one-way delay: 10.119 ms

Loss rate: 0.09%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-07-25 00:37:52

End at: 2018-07-25 00:38:22

Local clock offset: 3.268 ms

Remote clock offset: 1.815 ms

Below is generated by plot.py at 2018-07-25 04:18:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 722.13 Mbit/s

95th percentile per-packet one-way delay: 8.031 ms

Loss rate: 0.08%

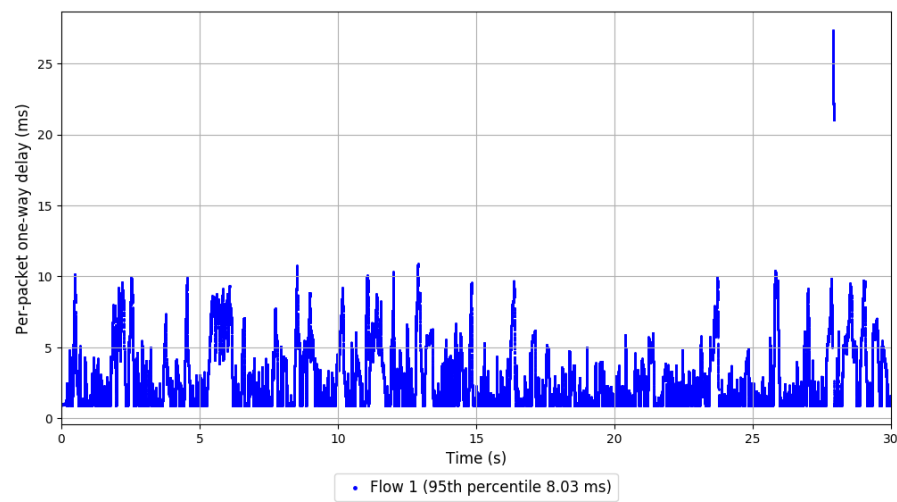
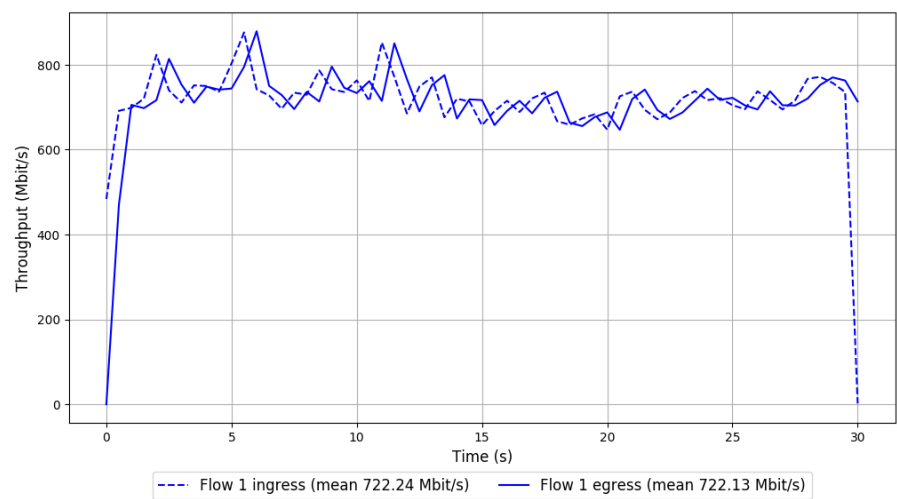
-- Flow 1:

Average throughput: 722.13 Mbit/s

95th percentile per-packet one-way delay: 8.031 ms

Loss rate: 0.08%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-07-25 01:03:41

End at: 2018-07-25 01:04:11

Local clock offset: 3.39 ms

Remote clock offset: 2.144 ms

Below is generated by plot.py at 2018-07-25 04:18:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 817.87 Mbit/s

95th percentile per-packet one-way delay: 11.563 ms

Loss rate: 0.08%

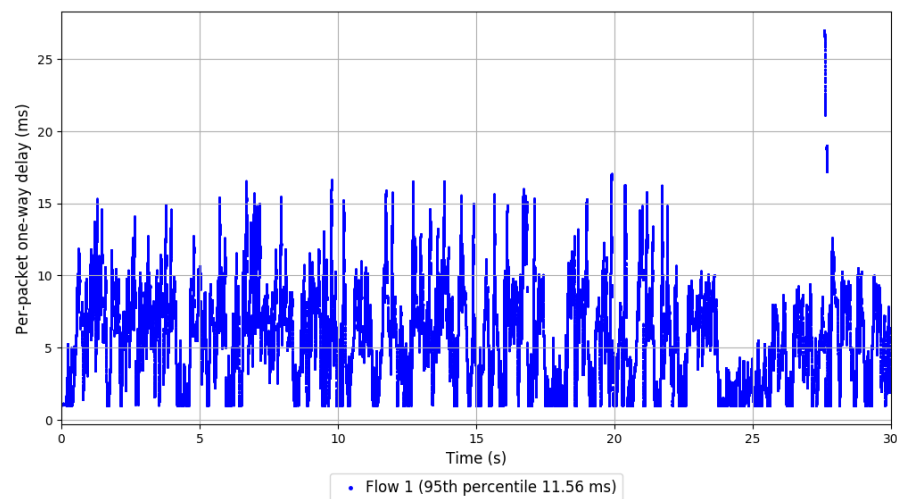
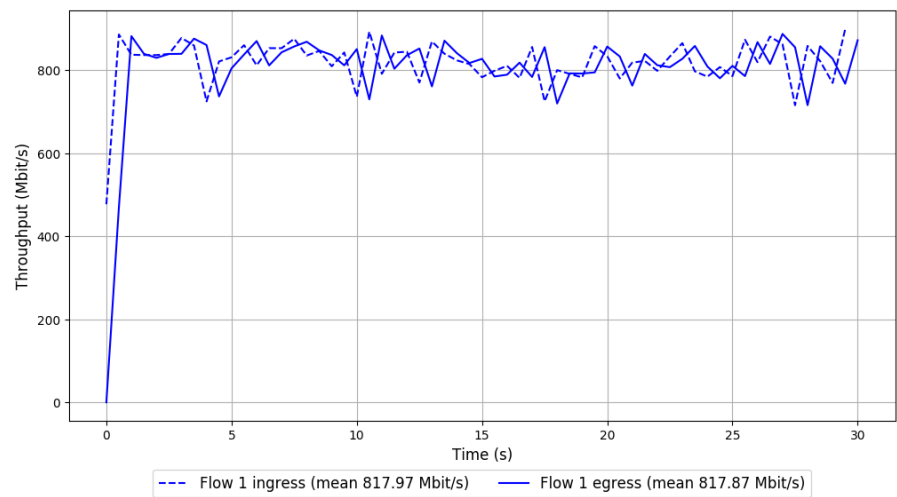
-- Flow 1:

Average throughput: 817.87 Mbit/s

95th percentile per-packet one-way delay: 11.563 ms

Loss rate: 0.08%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-07-25 01:29:40

End at: 2018-07-25 01:30:10

Local clock offset: 3.554 ms

Remote clock offset: 2.39 ms

Below is generated by plot.py at 2018-07-25 04:18:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 806.41 Mbit/s

95th percentile per-packet one-way delay: 11.834 ms

Loss rate: 0.09%

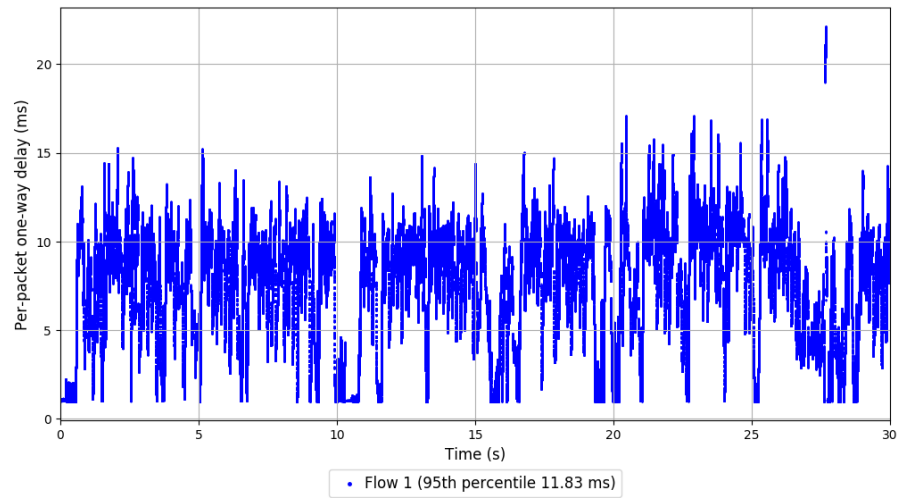
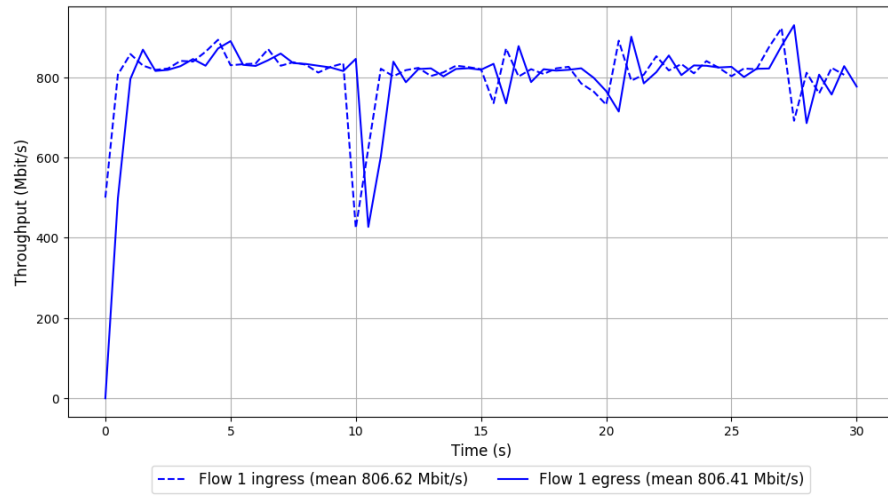
-- Flow 1:

Average throughput: 806.41 Mbit/s

95th percentile per-packet one-way delay: 11.834 ms

Loss rate: 0.09%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-07-25 01:55:28

End at: 2018-07-25 01:55:58

Local clock offset: 3.568 ms

Remote clock offset: 2.187 ms

Below is generated by plot.py at 2018-07-25 04:18:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 782.79 Mbit/s

95th percentile per-packet one-way delay: 12.404 ms

Loss rate: 0.10%

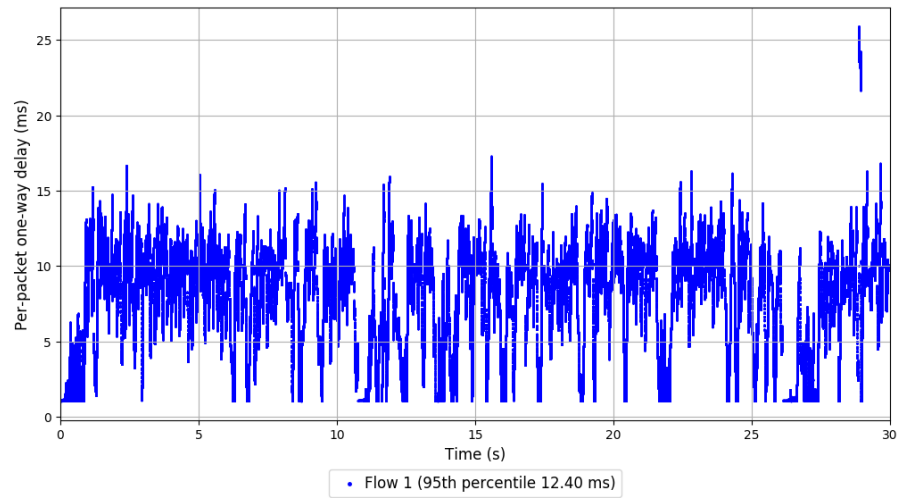
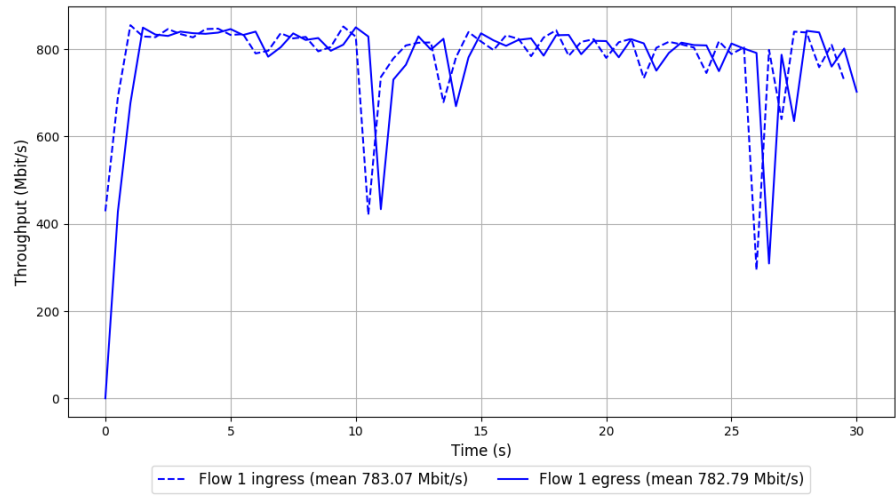
-- Flow 1:

Average throughput: 782.79 Mbit/s

95th percentile per-packet one-way delay: 12.404 ms

Loss rate: 0.10%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-07-25 02:21:22

End at: 2018-07-25 02:21:52

Local clock offset: 3.26 ms

Remote clock offset: 1.744 ms

Below is generated by plot.py at 2018-07-25 04:18:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 769.80 Mbit/s

95th percentile per-packet one-way delay: 8.338 ms

Loss rate: 0.08%

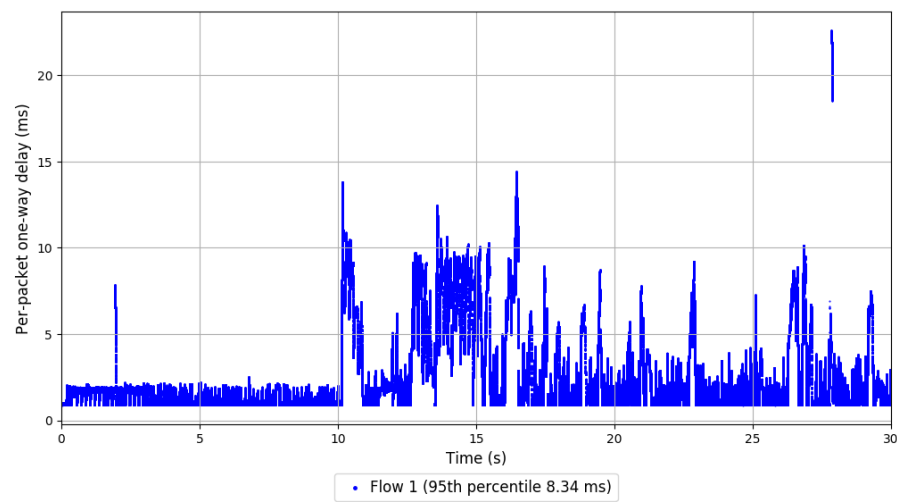
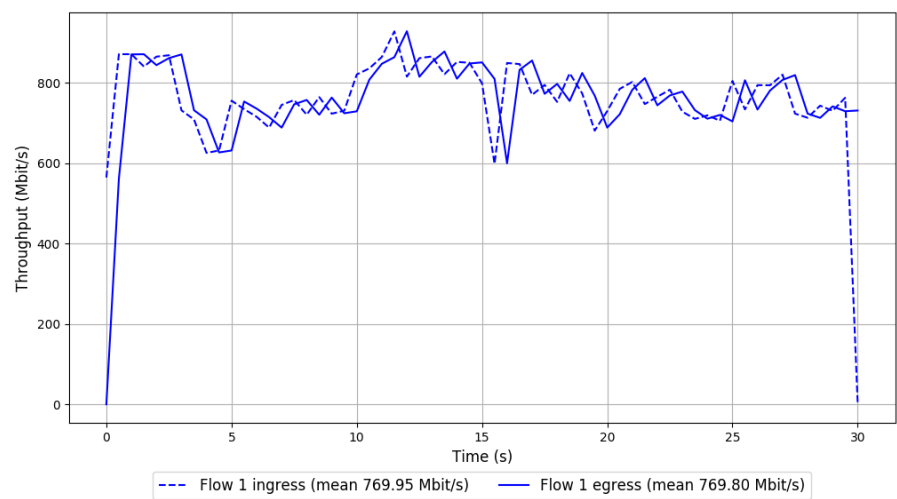
-- Flow 1:

Average throughput: 769.80 Mbit/s

95th percentile per-packet one-way delay: 8.338 ms

Loss rate: 0.08%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-07-25 02:47:14

End at: 2018-07-25 02:47:44

Local clock offset: 3.196 ms

Remote clock offset: 1.315 ms

Below is generated by plot.py at 2018-07-25 04:18:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 793.18 Mbit/s

95th percentile per-packet one-way delay: 13.264 ms

Loss rate: 0.10%

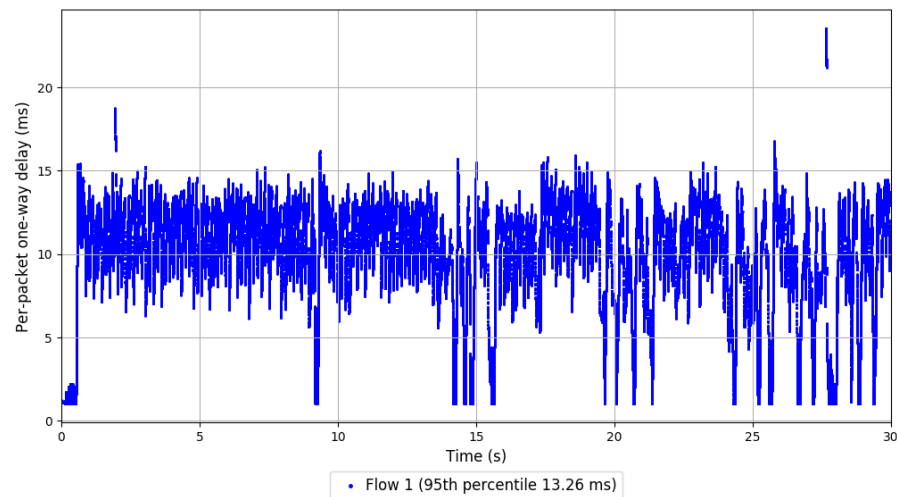
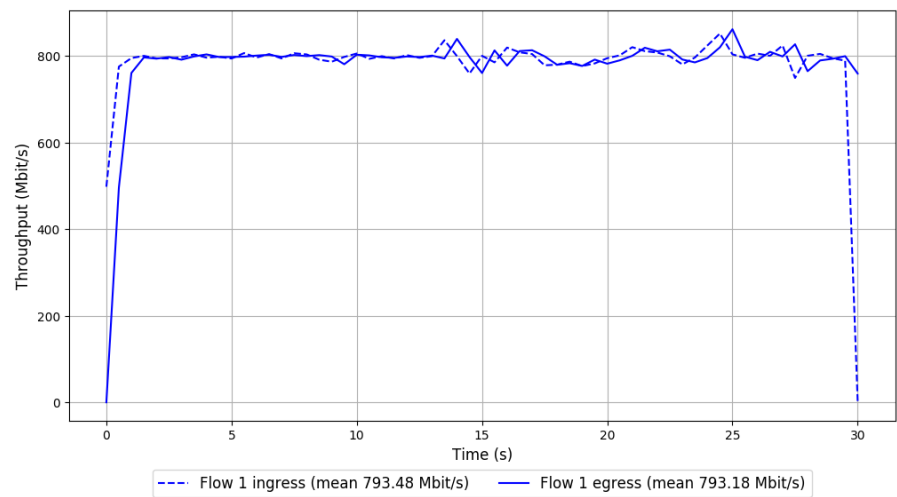
-- Flow 1:

Average throughput: 793.18 Mbit/s

95th percentile per-packet one-way delay: 13.264 ms

Loss rate: 0.10%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-07-25 03:13:06

End at: 2018-07-25 03:13:36

Local clock offset: 3.464 ms

Remote clock offset: 1.064 ms

Below is generated by plot.py at 2018-07-25 04:26:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 815.81 Mbit/s

95th percentile per-packet one-way delay: 11.159 ms

Loss rate: 0.08%

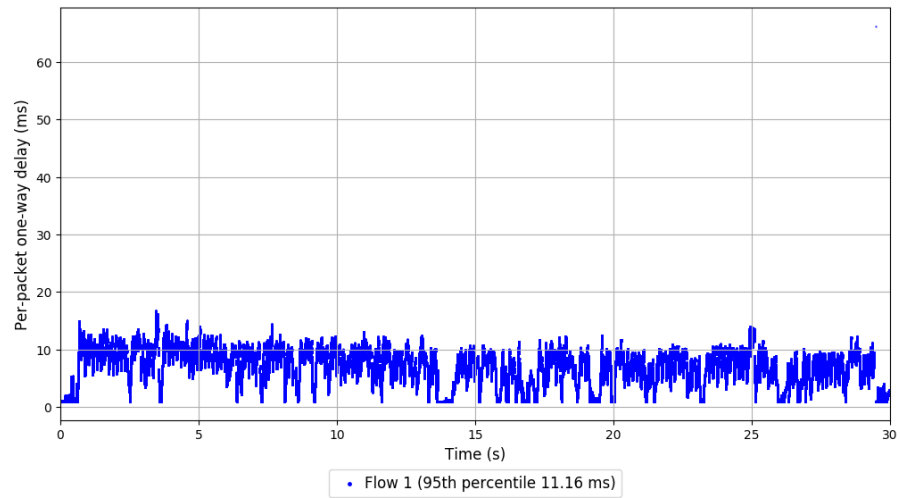
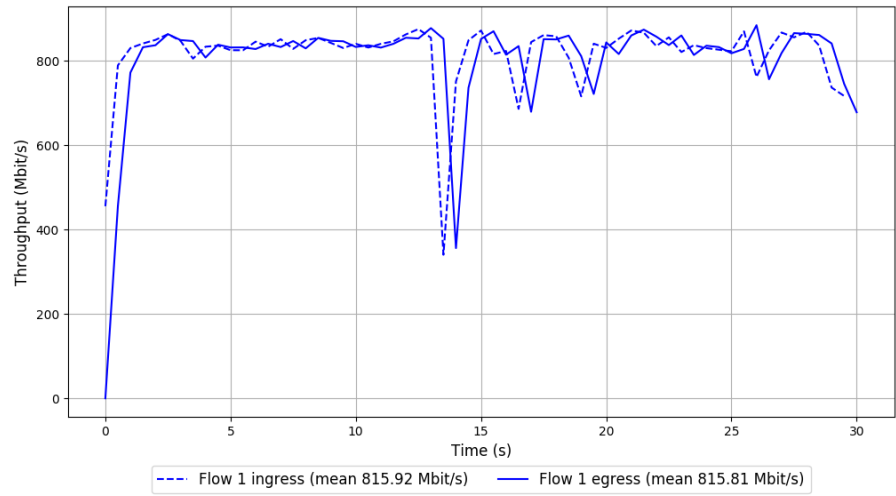
-- Flow 1:

Average throughput: 815.81 Mbit/s

95th percentile per-packet one-way delay: 11.159 ms

Loss rate: 0.08%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-07-25 03:38:58

End at: 2018-07-25 03:39:28

Local clock offset: 3.406 ms

Remote clock offset: 1.168 ms

Below is generated by plot.py at 2018-07-25 04:27:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 808.48 Mbit/s

95th percentile per-packet one-way delay: 9.845 ms

Loss rate: 0.09%

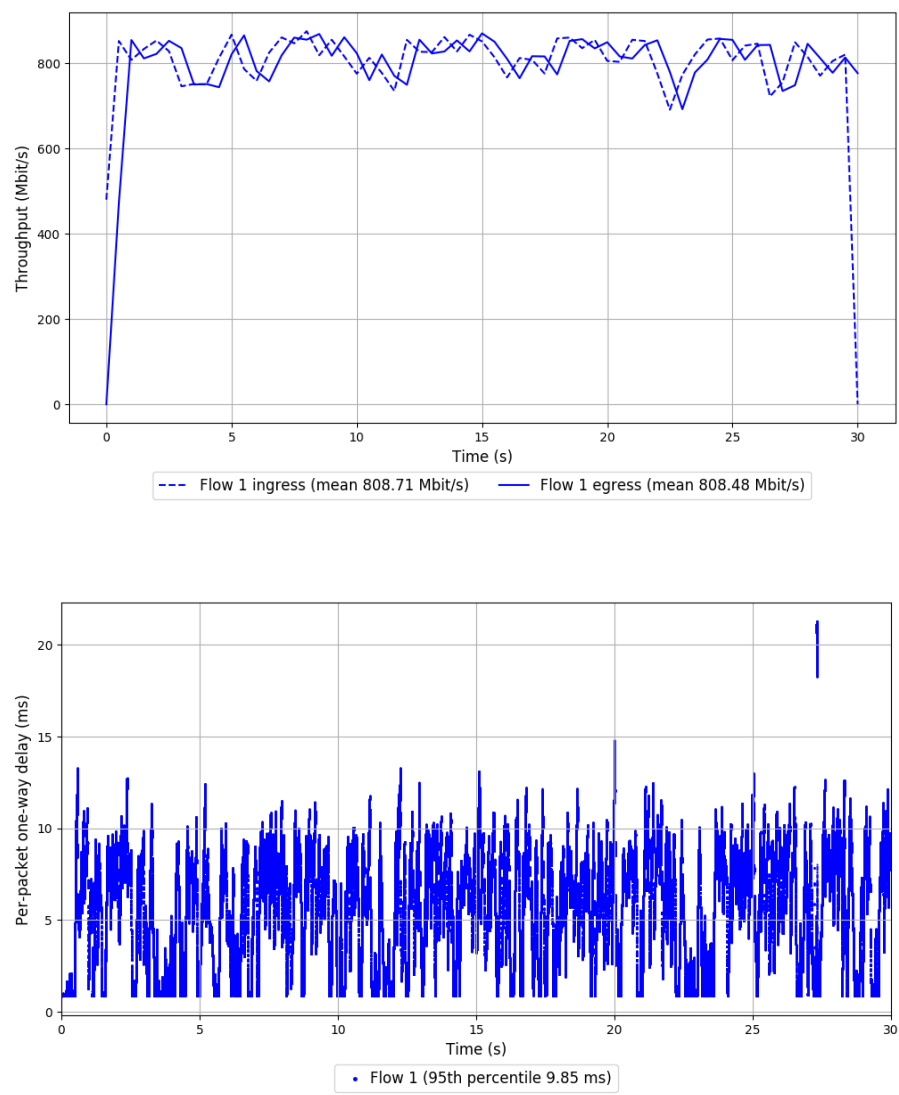
-- Flow 1:

Average throughput: 808.48 Mbit/s

95th percentile per-packet one-way delay: 9.845 ms

Loss rate: 0.09%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2018-07-24 23:47:57

End at: 2018-07-24 23:48:27

Local clock offset: 3.415 ms

Remote clock offset: 0.623 ms

Below is generated by plot.py at 2018-07-25 04:27:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 373.75 Mbit/s

95th percentile per-packet one-way delay: 1.162 ms

Loss rate: 0.07%

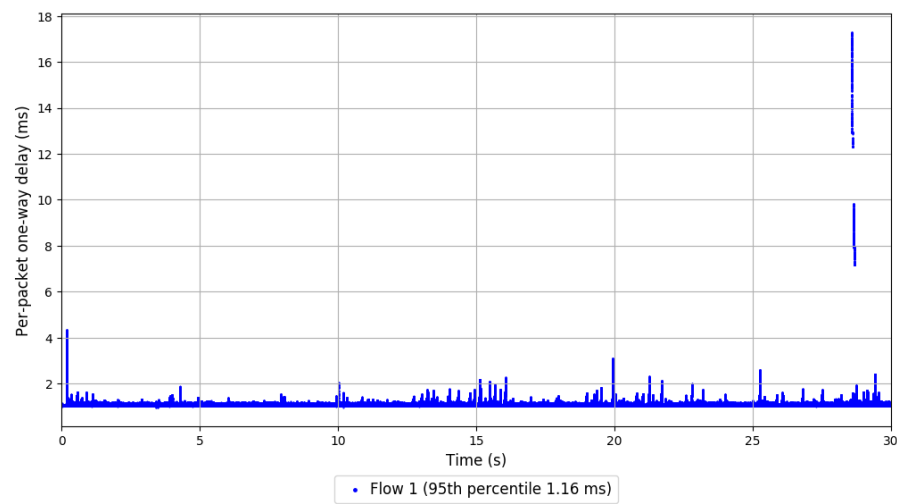
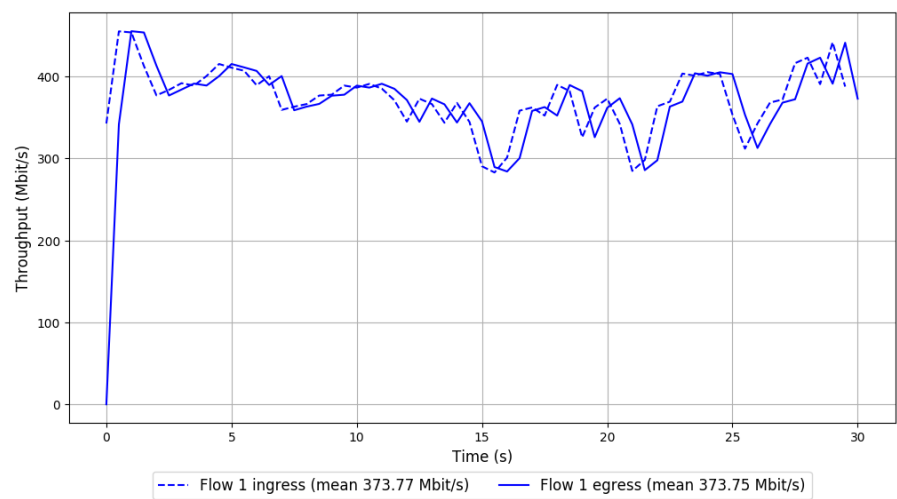
-- Flow 1:

Average throughput: 373.75 Mbit/s

95th percentile per-packet one-way delay: 1.162 ms

Loss rate: 0.07%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-07-25 00:13:48

End at: 2018-07-25 00:14:18

Local clock offset: 3.467 ms

Remote clock offset: 1.322 ms

Below is generated by plot.py at 2018-07-25 04:27:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 338.02 Mbit/s

95th percentile per-packet one-way delay: 1.001 ms

Loss rate: 0.08%

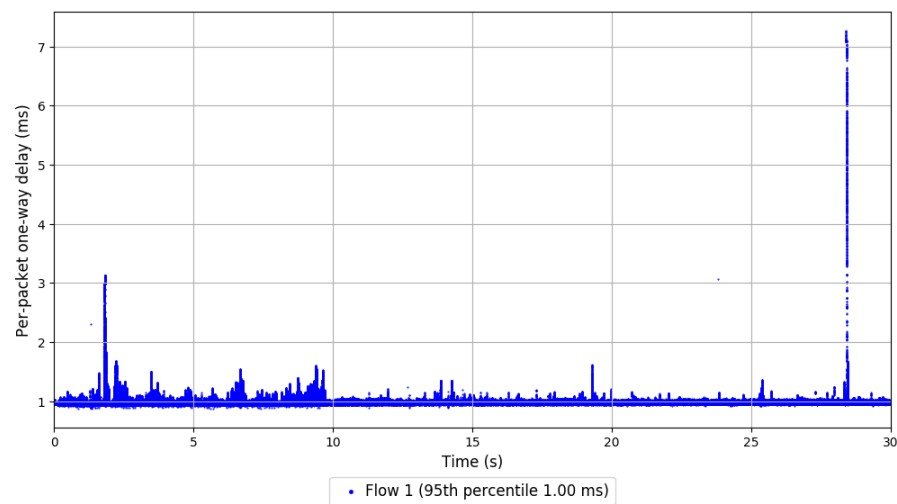
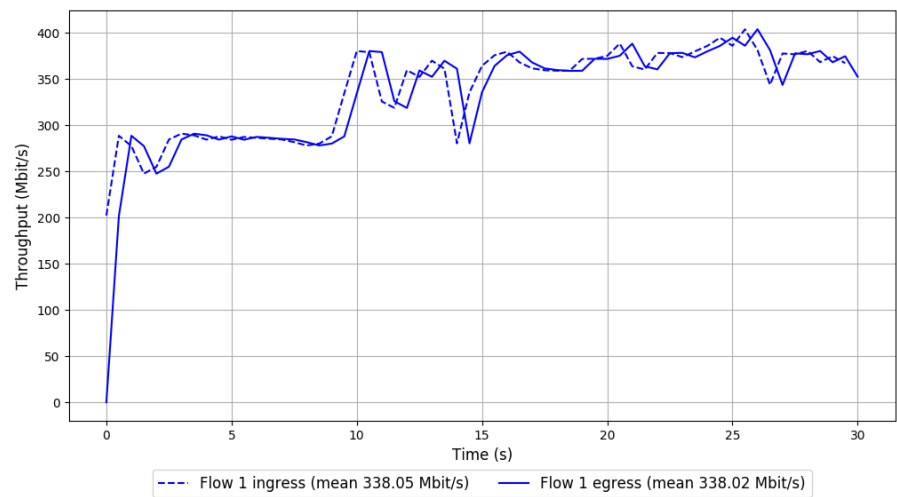
-- Flow 1:

Average throughput: 338.02 Mbit/s

95th percentile per-packet one-way delay: 1.001 ms

Loss rate: 0.08%

Run 2: Report of Copa — Data Link

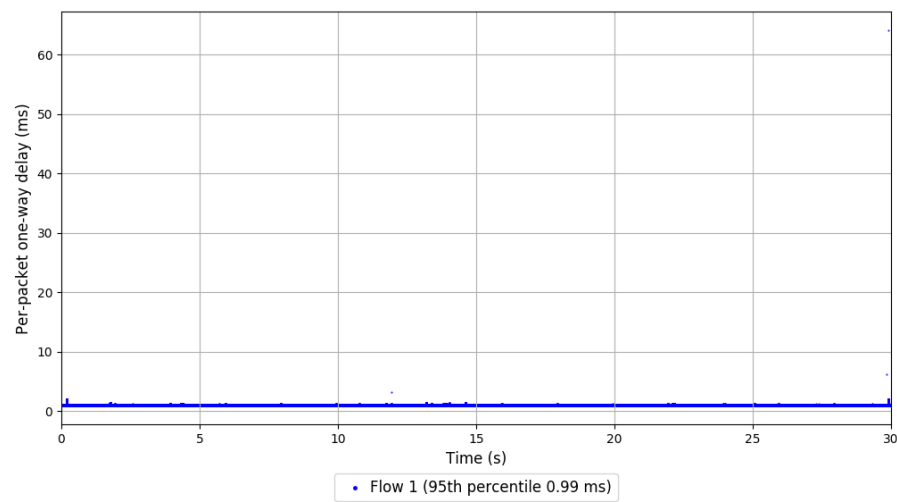
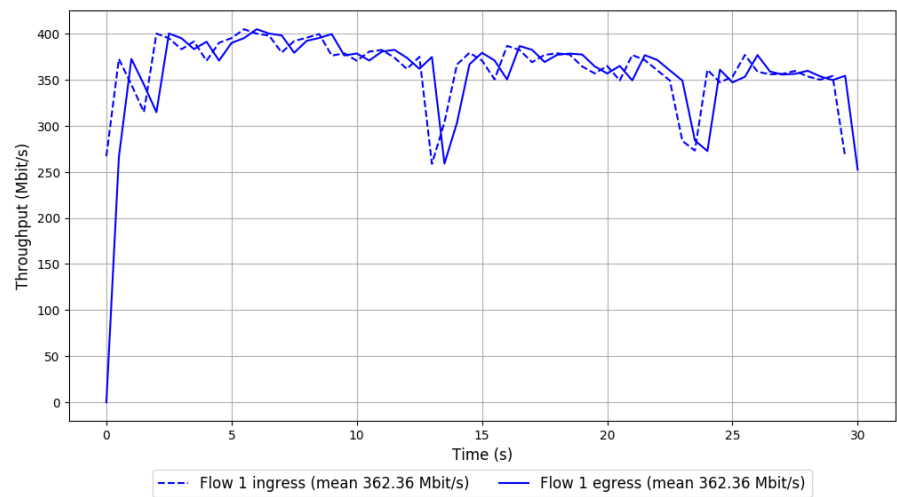


Run 3: Statistics of Copa

Start at: 2018-07-25 00:39:34
End at: 2018-07-25 00:40:04
Local clock offset: 3.389 ms
Remote clock offset: 1.91 ms

Below is generated by plot.py at 2018-07-25 04:27:00
Datalink statistics
-- Total of 1 flow:
Average throughput: 362.36 Mbit/s
95th percentile per-packet one-way delay: 0.987 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 362.36 Mbit/s
95th percentile per-packet one-way delay: 0.987 ms
Loss rate: 0.07%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-07-25 01:05:25

End at: 2018-07-25 01:05:55

Local clock offset: 3.431 ms

Remote clock offset: 2.249 ms

Below is generated by plot.py at 2018-07-25 04:27:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 391.22 Mbit/s

95th percentile per-packet one-way delay: 1.029 ms

Loss rate: 0.06%

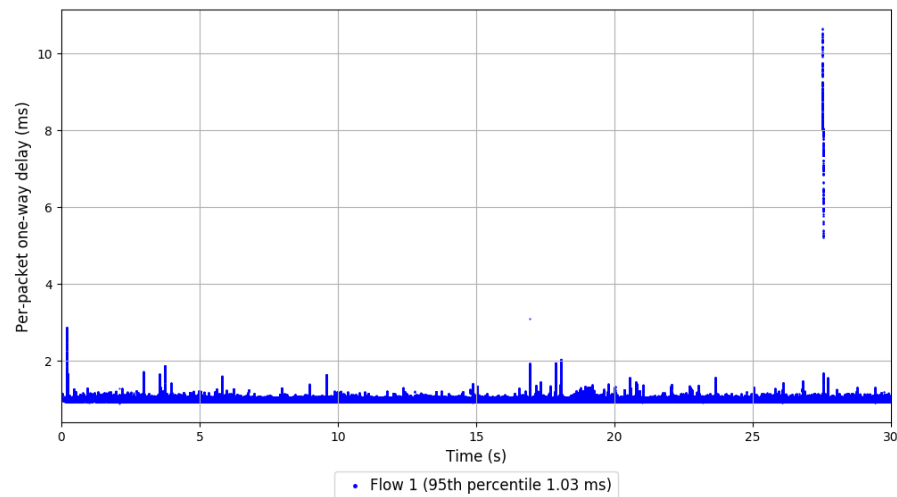
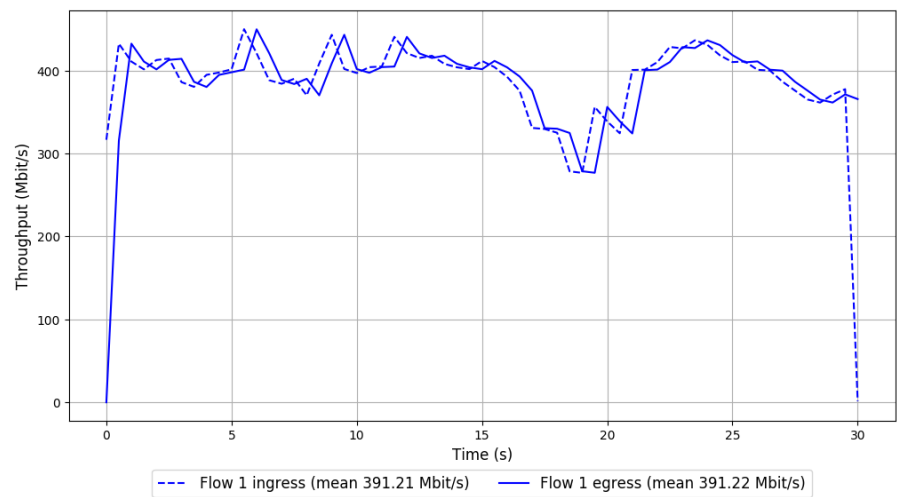
-- Flow 1:

Average throughput: 391.22 Mbit/s

95th percentile per-packet one-way delay: 1.029 ms

Loss rate: 0.06%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-07-25 01:31:23

End at: 2018-07-25 01:31:53

Local clock offset: 3.421 ms

Remote clock offset: 2.386 ms

Below is generated by plot.py at 2018-07-25 04:27:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 325.78 Mbit/s

95th percentile per-packet one-way delay: 0.900 ms

Loss rate: 0.07%

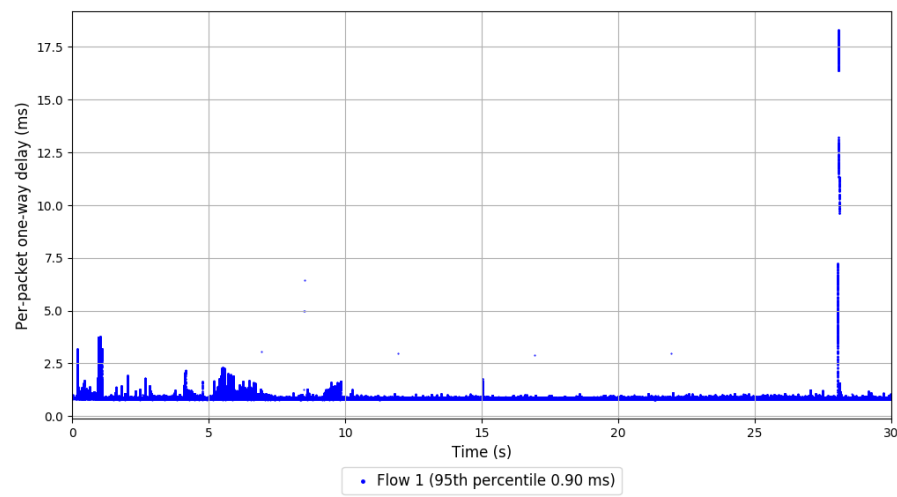
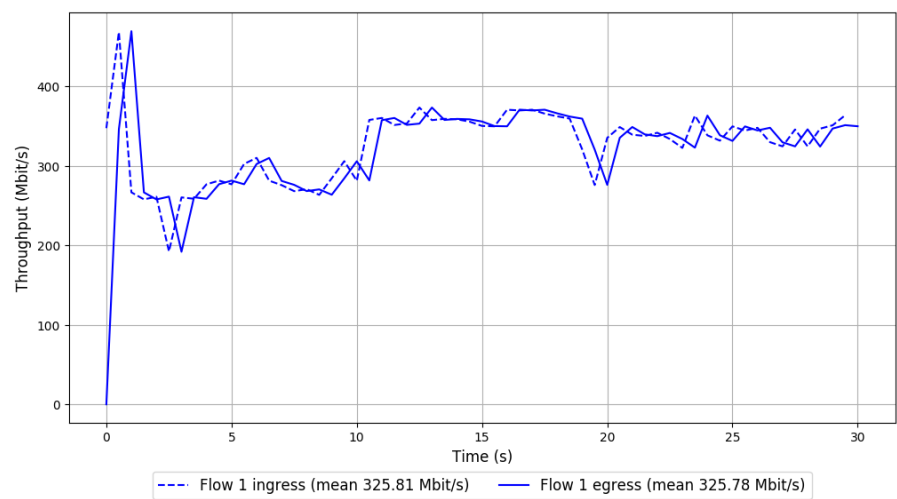
-- Flow 1:

Average throughput: 325.78 Mbit/s

95th percentile per-packet one-way delay: 0.900 ms

Loss rate: 0.07%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-07-25 01:57:10

End at: 2018-07-25 01:57:40

Local clock offset: 3.548 ms

Remote clock offset: 2.263 ms

Below is generated by plot.py at 2018-07-25 04:27:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 342.60 Mbit/s

95th percentile per-packet one-way delay: 1.012 ms

Loss rate: 0.06%

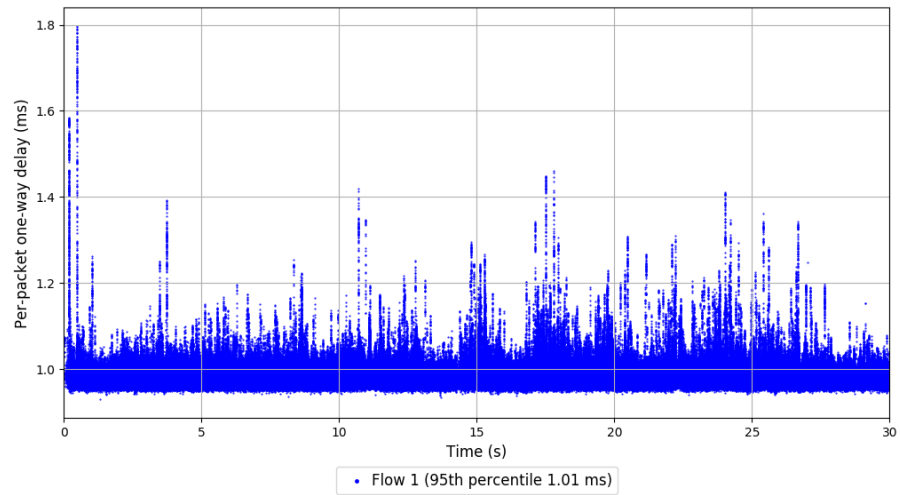
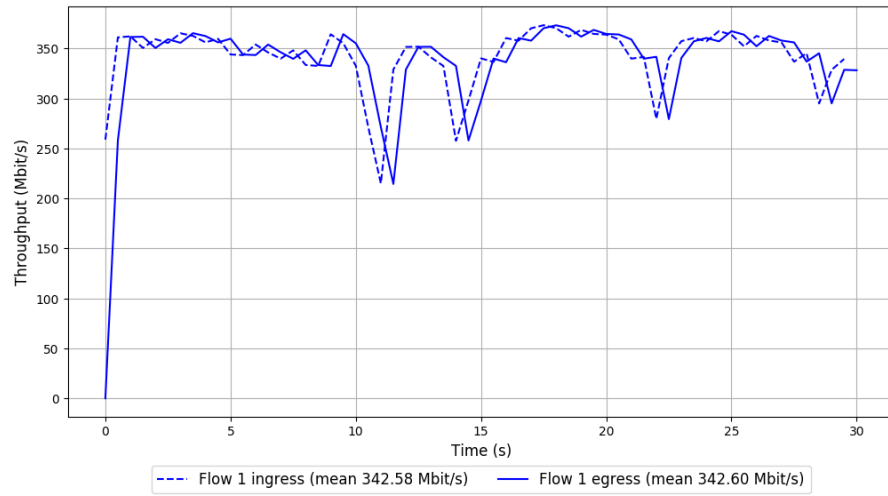
-- Flow 1:

Average throughput: 342.60 Mbit/s

95th percentile per-packet one-way delay: 1.012 ms

Loss rate: 0.06%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-07-25 02:23:05

End at: 2018-07-25 02:23:35

Local clock offset: 3.28 ms

Remote clock offset: 1.757 ms

Below is generated by plot.py at 2018-07-25 04:32:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 351.17 Mbit/s

95th percentile per-packet one-way delay: 0.949 ms

Loss rate: 0.05%

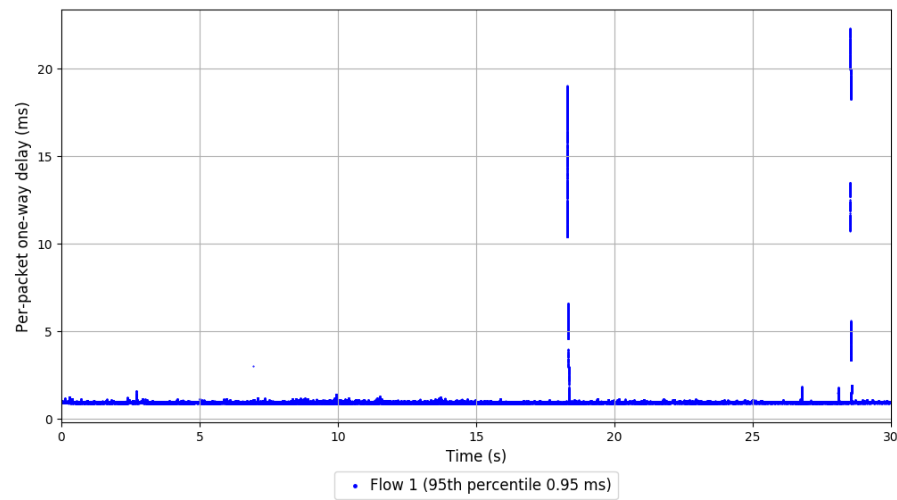
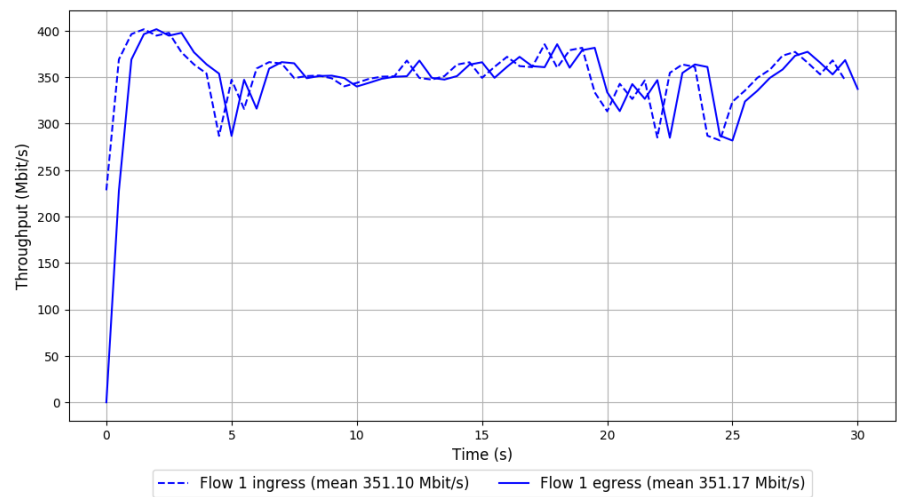
-- Flow 1:

Average throughput: 351.17 Mbit/s

95th percentile per-packet one-way delay: 0.949 ms

Loss rate: 0.05%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-07-25 02:48:56

End at: 2018-07-25 02:49:26

Local clock offset: 3.079 ms

Remote clock offset: 1.353 ms

Below is generated by plot.py at 2018-07-25 04:33:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 439.29 Mbit/s

95th percentile per-packet one-way delay: 1.062 ms

Loss rate: 0.06%

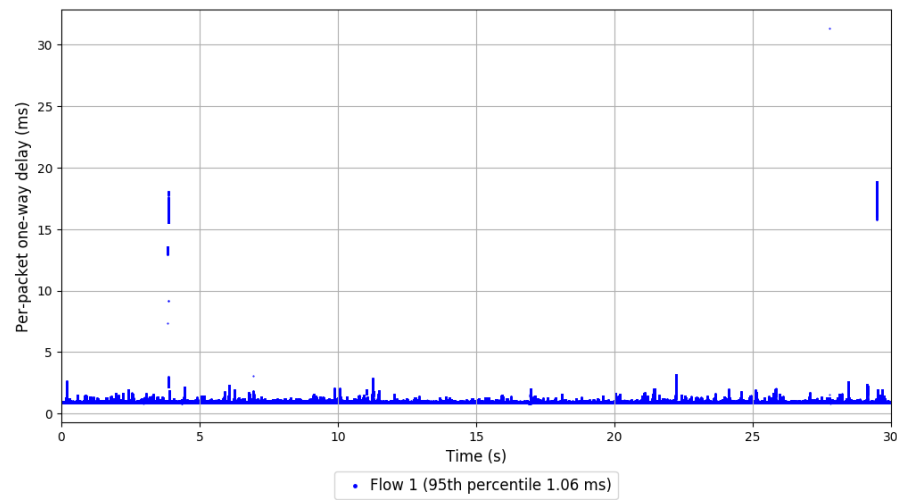
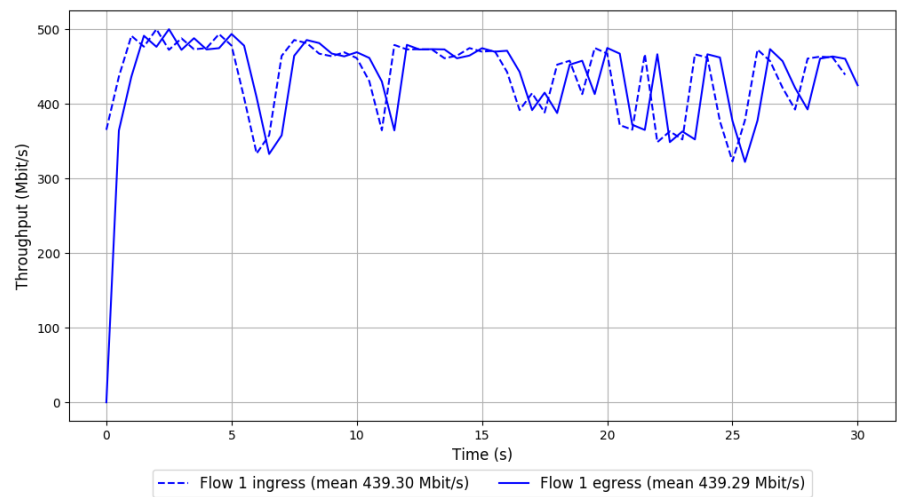
-- Flow 1:

Average throughput: 439.29 Mbit/s

95th percentile per-packet one-way delay: 1.062 ms

Loss rate: 0.06%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-07-25 03:14:49

End at: 2018-07-25 03:15:19

Local clock offset: 3.487 ms

Remote clock offset: 1.102 ms

Below is generated by plot.py at 2018-07-25 04:33:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 344.77 Mbit/s

95th percentile per-packet one-way delay: 0.978 ms

Loss rate: 0.04%

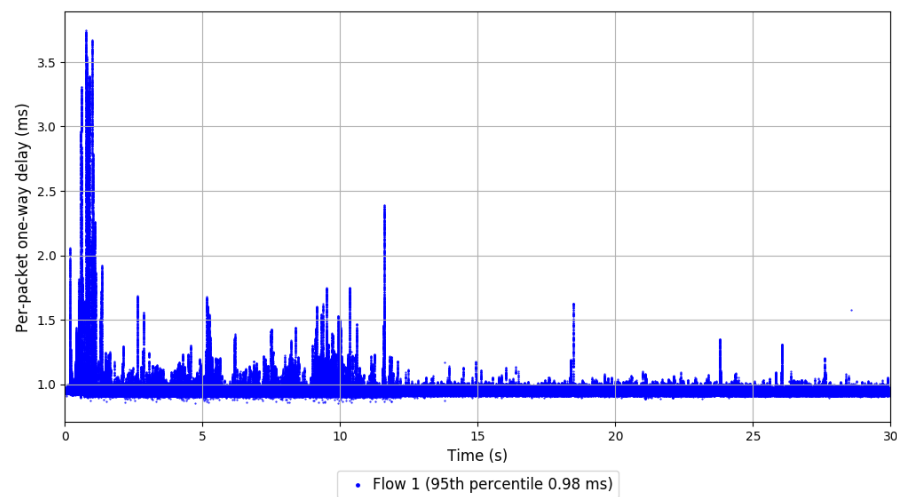
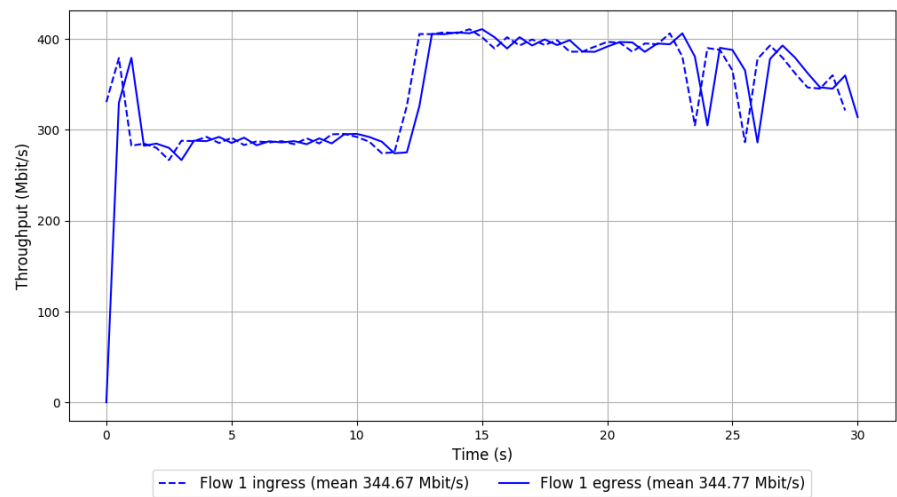
-- Flow 1:

Average throughput: 344.77 Mbit/s

95th percentile per-packet one-way delay: 0.978 ms

Loss rate: 0.04%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-07-25 03:40:42

End at: 2018-07-25 03:41:12

Local clock offset: 3.492 ms

Remote clock offset: 1.149 ms

Below is generated by plot.py at 2018-07-25 04:34:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 431.71 Mbit/s

95th percentile per-packet one-way delay: 1.131 ms

Loss rate: 0.07%

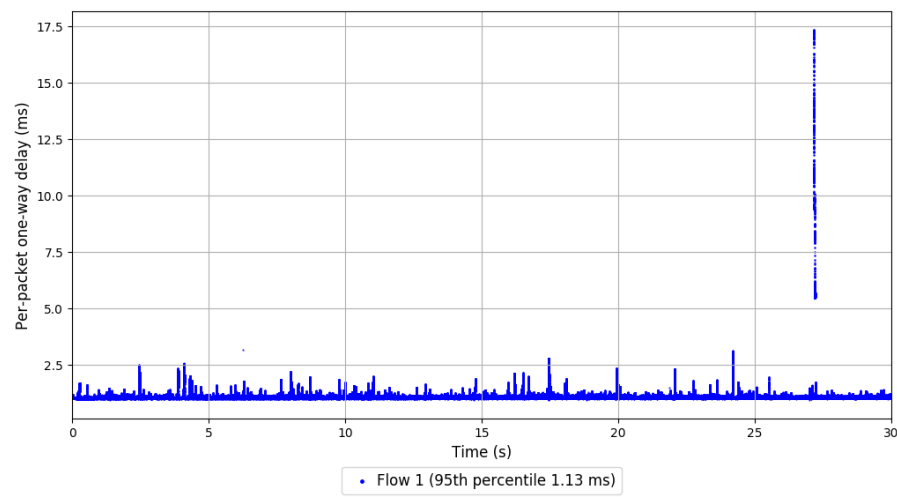
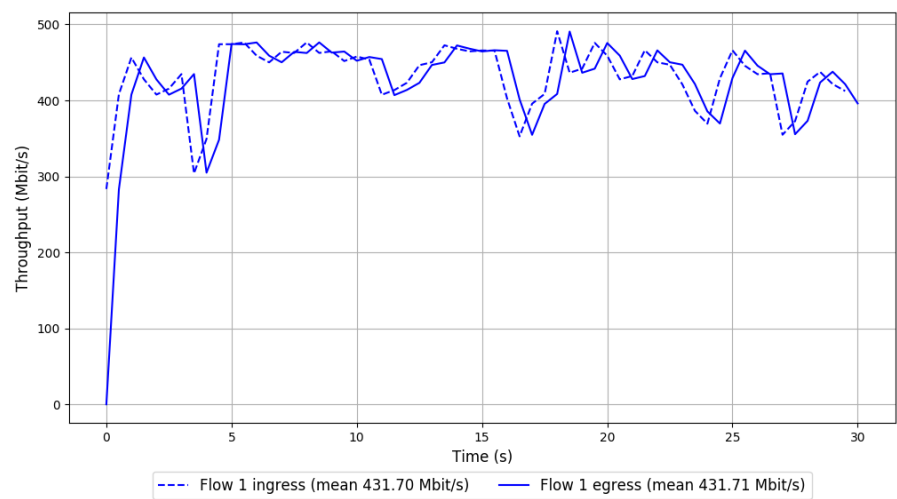
-- Flow 1:

Average throughput: 431.71 Mbit/s

95th percentile per-packet one-way delay: 1.131 ms

Loss rate: 0.07%

Run 10: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-07-24 23:38:31

End at: 2018-07-24 23:39:01

Local clock offset: 3.434 ms

Remote clock offset: 0.402 ms

Below is generated by plot.py at 2018-07-25 04:34:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 512.84 Mbit/s

95th percentile per-packet one-way delay: 1.211 ms

Loss rate: 0.07%

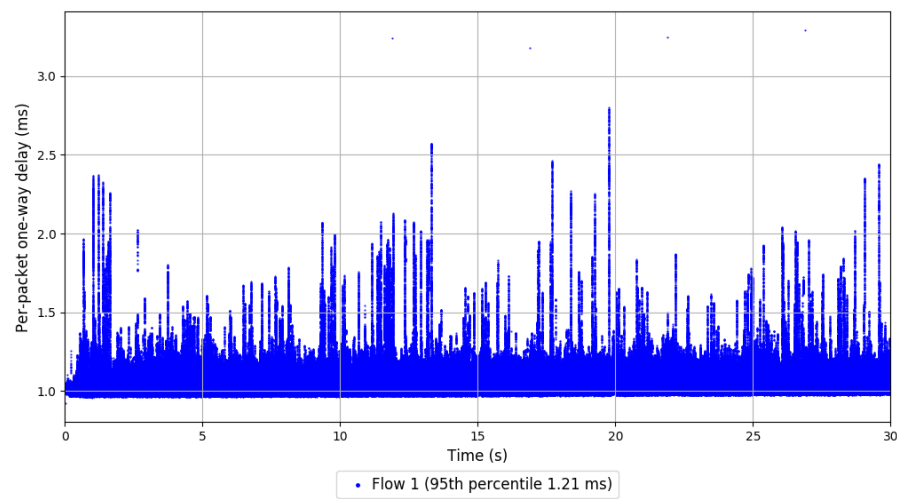
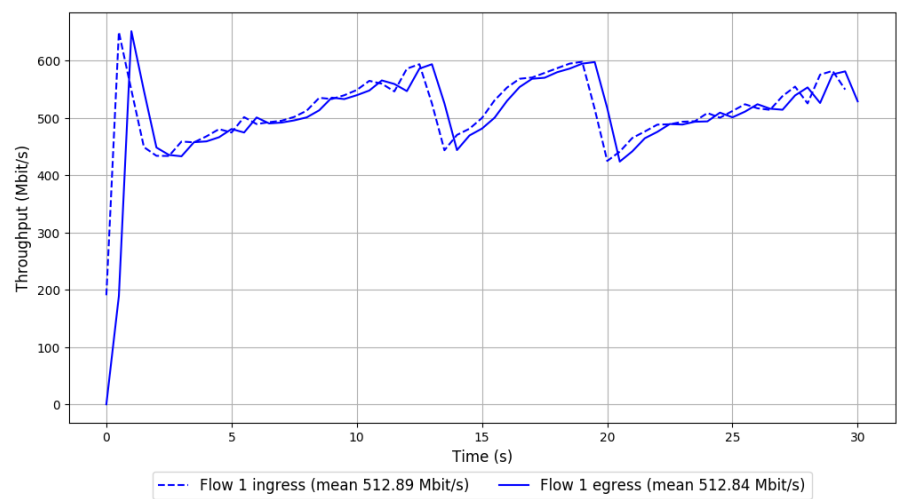
-- Flow 1:

Average throughput: 512.84 Mbit/s

95th percentile per-packet one-way delay: 1.211 ms

Loss rate: 0.07%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-07-25 00:04:22

End at: 2018-07-25 00:04:52

Local clock offset: 3.318 ms

Remote clock offset: 1.133 ms

Below is generated by plot.py at 2018-07-25 04:34:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 505.63 Mbit/s

95th percentile per-packet one-way delay: 1.260 ms

Loss rate: 0.06%

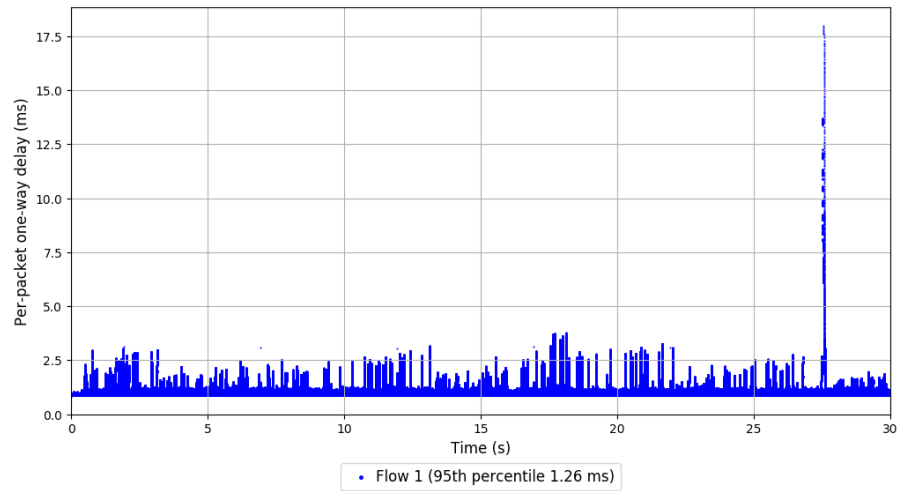
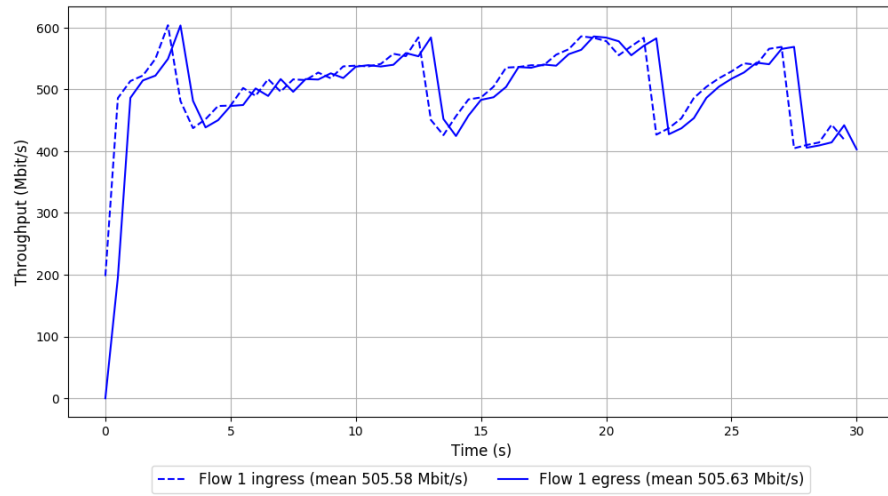
-- Flow 1:

Average throughput: 505.63 Mbit/s

95th percentile per-packet one-way delay: 1.260 ms

Loss rate: 0.06%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-07-25 00:30:10

End at: 2018-07-25 00:30:40

Local clock offset: 3.214 ms

Remote clock offset: 1.651 ms

Below is generated by plot.py at 2018-07-25 04:34:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 504.40 Mbit/s

95th percentile per-packet one-way delay: 1.325 ms

Loss rate: 0.06%

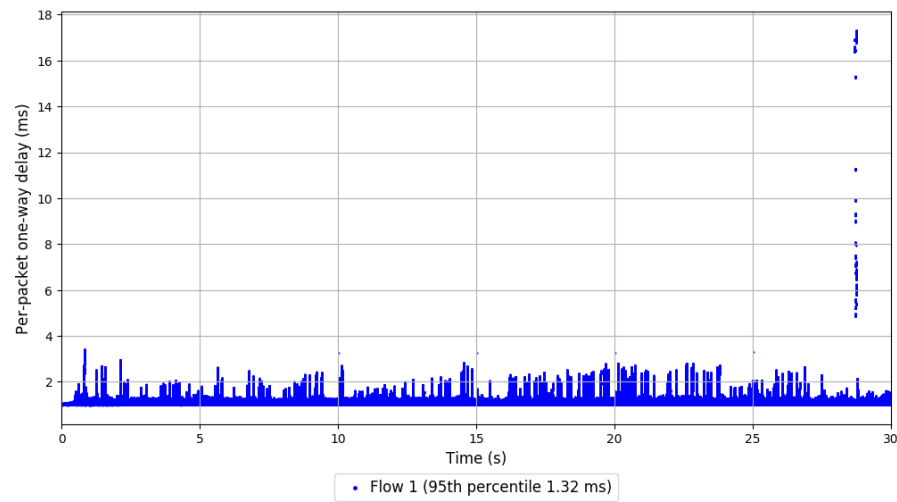
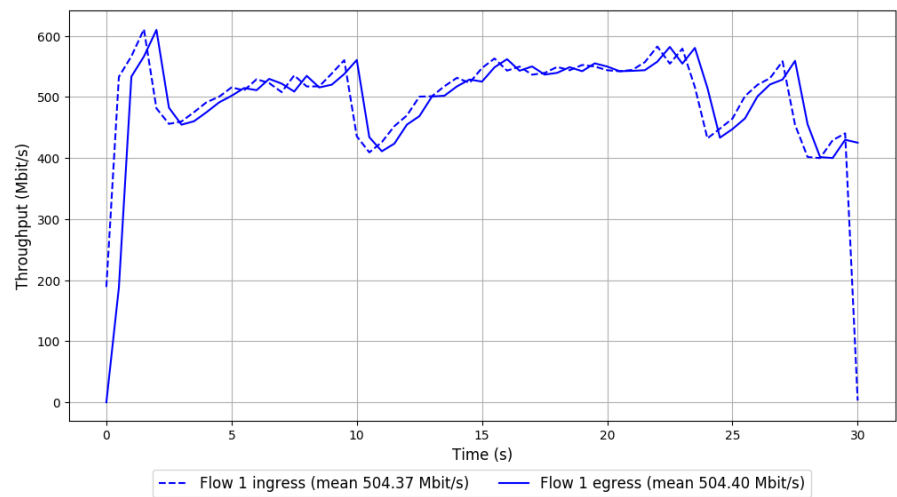
-- Flow 1:

Average throughput: 504.40 Mbit/s

95th percentile per-packet one-way delay: 1.325 ms

Loss rate: 0.06%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-07-25 00:55:56

End at: 2018-07-25 00:56:26

Local clock offset: 3.354 ms

Remote clock offset: 2.029 ms

Below is generated by plot.py at 2018-07-25 04:34:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 519.60 Mbit/s

95th percentile per-packet one-way delay: 1.591 ms

Loss rate: 0.06%

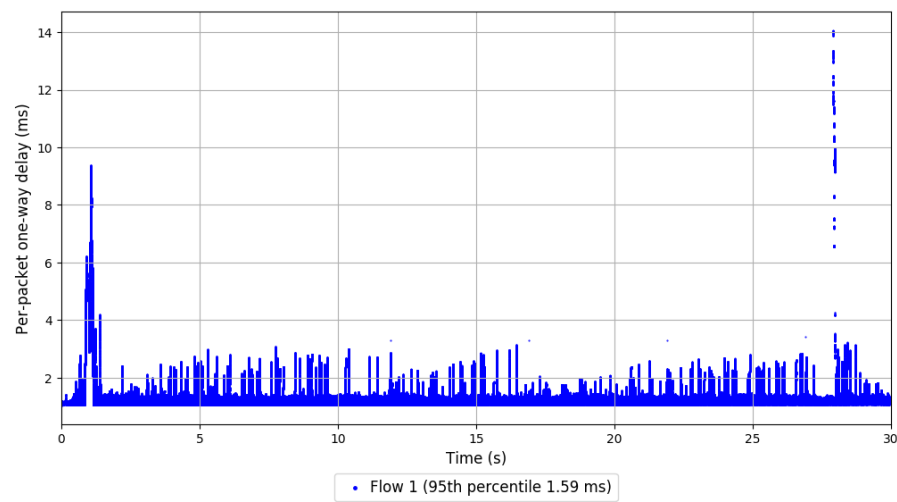
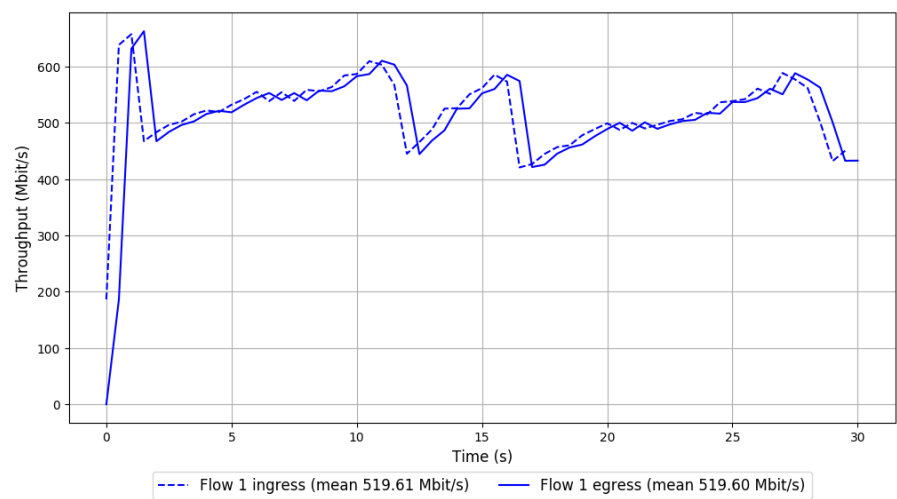
-- Flow 1:

Average throughput: 519.60 Mbit/s

95th percentile per-packet one-way delay: 1.591 ms

Loss rate: 0.06%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-07-25 01:21:58

End at: 2018-07-25 01:22:28

Local clock offset: 3.589 ms

Remote clock offset: 2.377 ms

Below is generated by plot.py at 2018-07-25 04:37:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 499.16 Mbit/s

95th percentile per-packet one-way delay: 1.442 ms

Loss rate: 0.08%

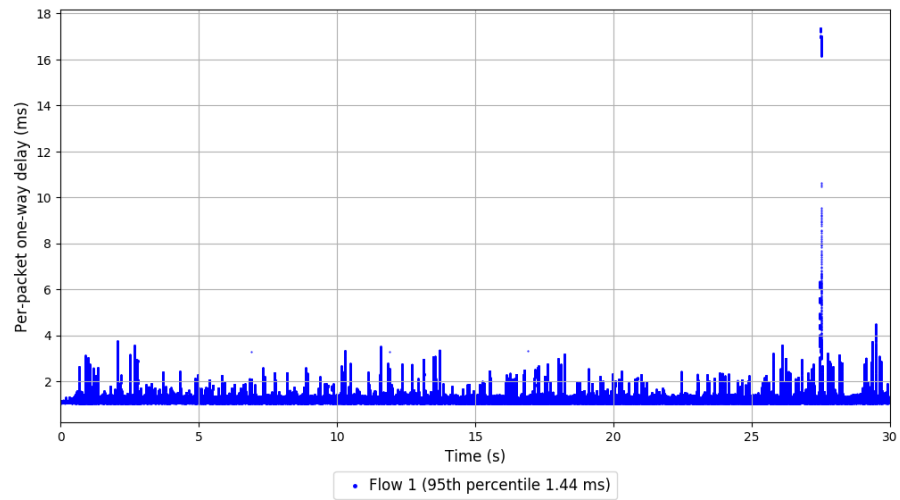
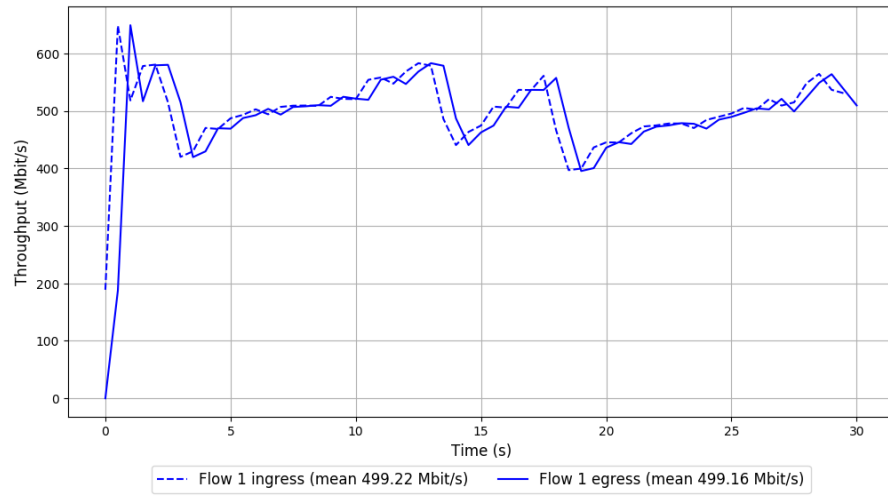
-- Flow 1:

Average throughput: 499.16 Mbit/s

95th percentile per-packet one-way delay: 1.442 ms

Loss rate: 0.08%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-07-25 01:47:45

End at: 2018-07-25 01:48:15

Local clock offset: 3.663 ms

Remote clock offset: 2.218 ms

Below is generated by plot.py at 2018-07-25 04:37:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 459.80 Mbit/s

95th percentile per-packet one-way delay: 2.660 ms

Loss rate: 0.08%

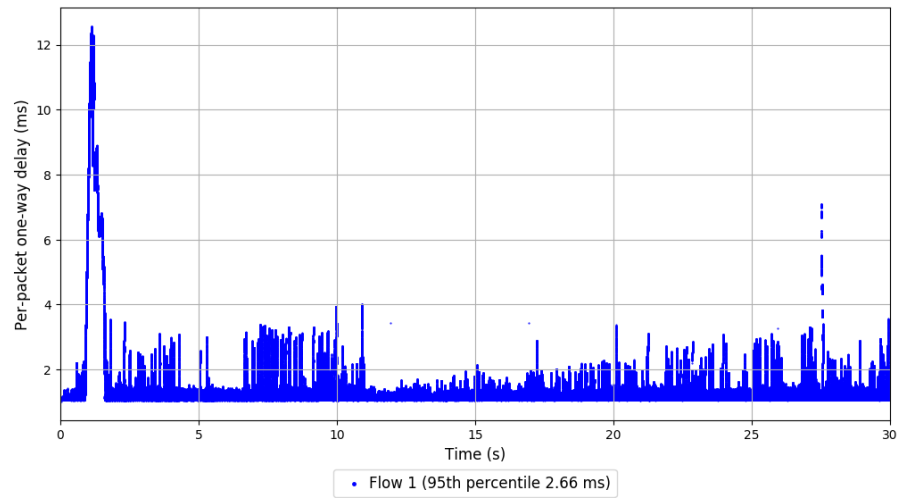
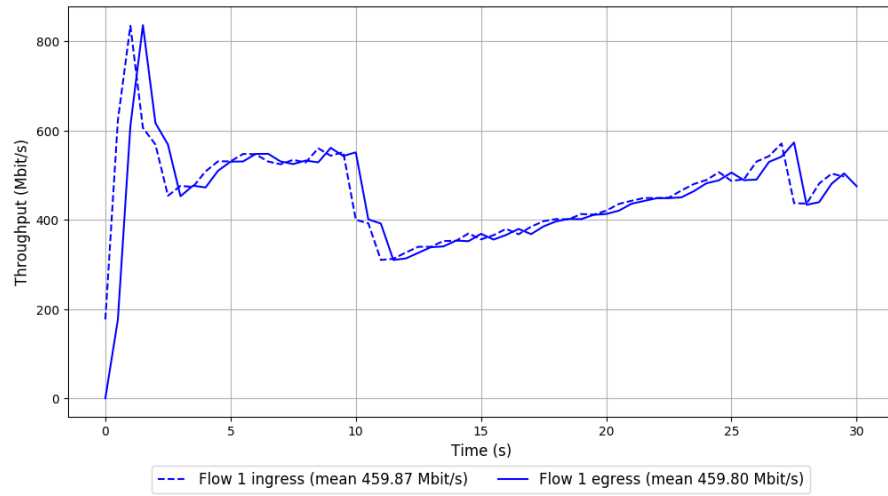
-- Flow 1:

Average throughput: 459.80 Mbit/s

95th percentile per-packet one-way delay: 2.660 ms

Loss rate: 0.08%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-07-25 02:13:40

End at: 2018-07-25 02:14:10

Local clock offset: 3.459 ms

Remote clock offset: 1.89 ms

Below is generated by plot.py at 2018-07-25 04:37:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 482.26 Mbit/s

95th percentile per-packet one-way delay: 1.259 ms

Loss rate: 0.07%

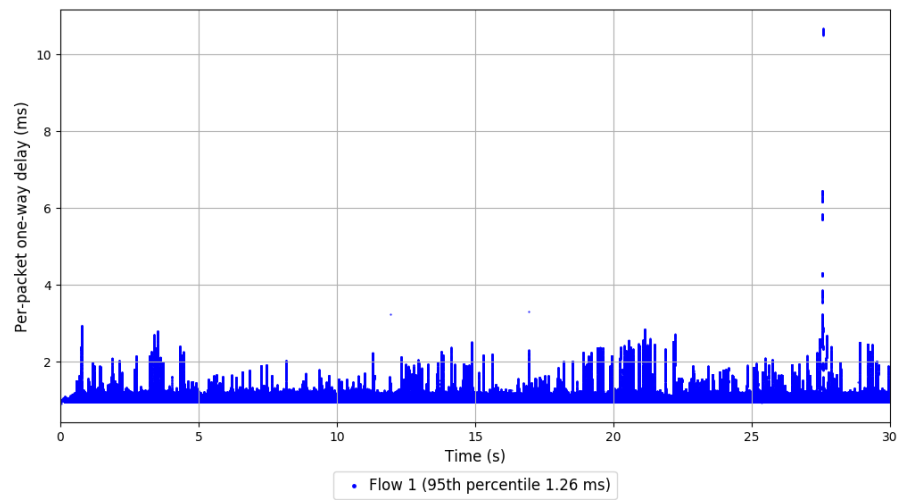
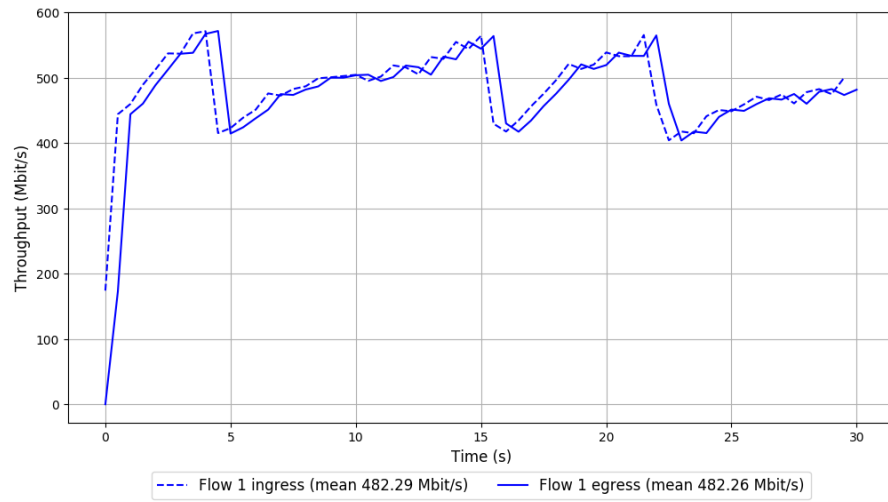
-- Flow 1:

Average throughput: 482.26 Mbit/s

95th percentile per-packet one-way delay: 1.259 ms

Loss rate: 0.07%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-07-25 02:39:32

End at: 2018-07-25 02:40:02

Local clock offset: 3.258 ms

Remote clock offset: 1.436 ms

Below is generated by plot.py at 2018-07-25 04:37:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 518.74 Mbit/s

95th percentile per-packet one-way delay: 1.318 ms

Loss rate: 0.08%

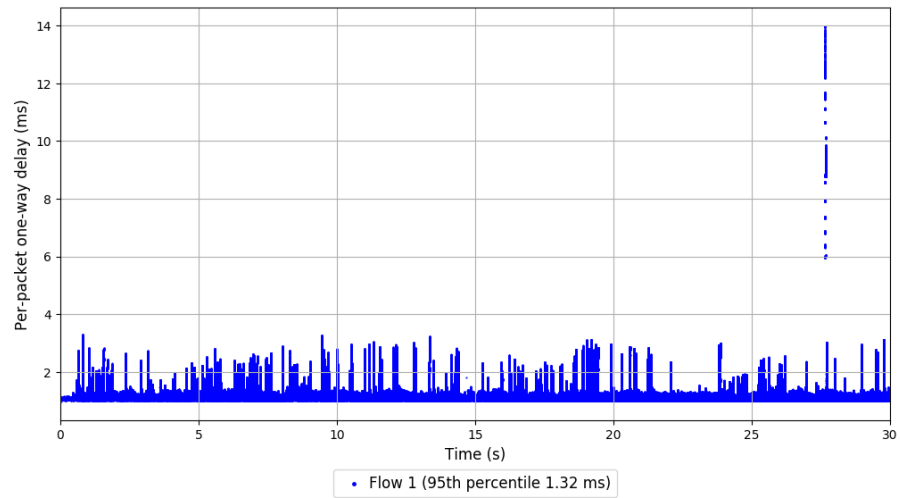
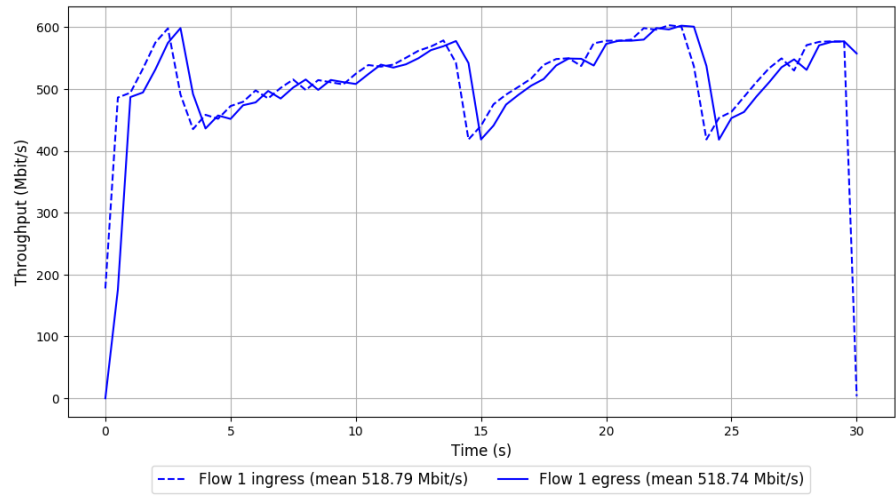
-- Flow 1:

Average throughput: 518.74 Mbit/s

95th percentile per-packet one-way delay: 1.318 ms

Loss rate: 0.08%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-07-25 03:05:23

End at: 2018-07-25 03:05:53

Local clock offset: 3.085 ms

Remote clock offset: 1.07 ms

Below is generated by plot.py at 2018-07-25 04:37:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 469.29 Mbit/s

95th percentile per-packet one-way delay: 1.191 ms

Loss rate: 0.07%

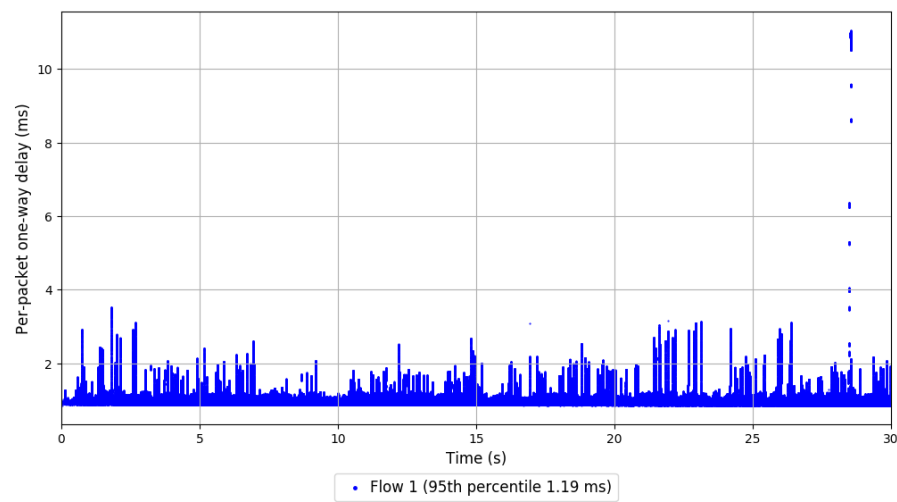
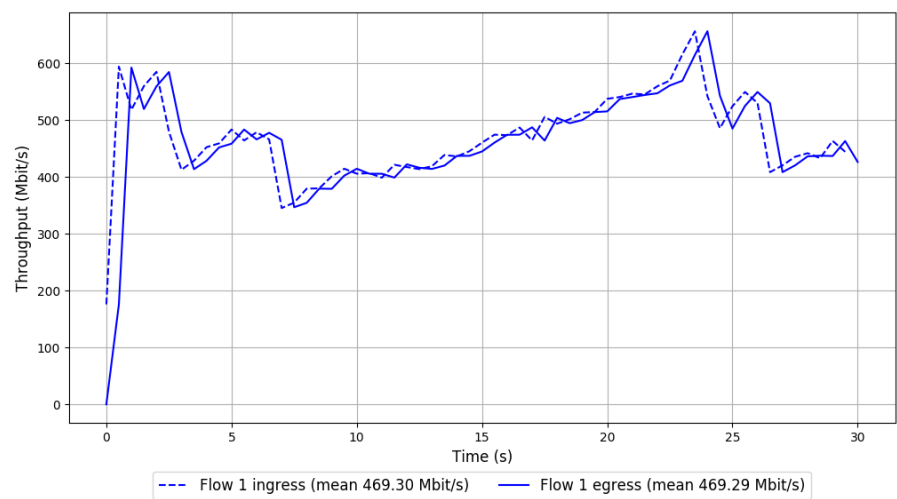
-- Flow 1:

Average throughput: 469.29 Mbit/s

95th percentile per-packet one-way delay: 1.191 ms

Loss rate: 0.07%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-07-25 03:31:13

End at: 2018-07-25 03:31:43

Local clock offset: 3.418 ms

Remote clock offset: 1.049 ms

Below is generated by plot.py at 2018-07-25 04:38:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 505.84 Mbit/s

95th percentile per-packet one-way delay: 1.429 ms

Loss rate: 0.07%

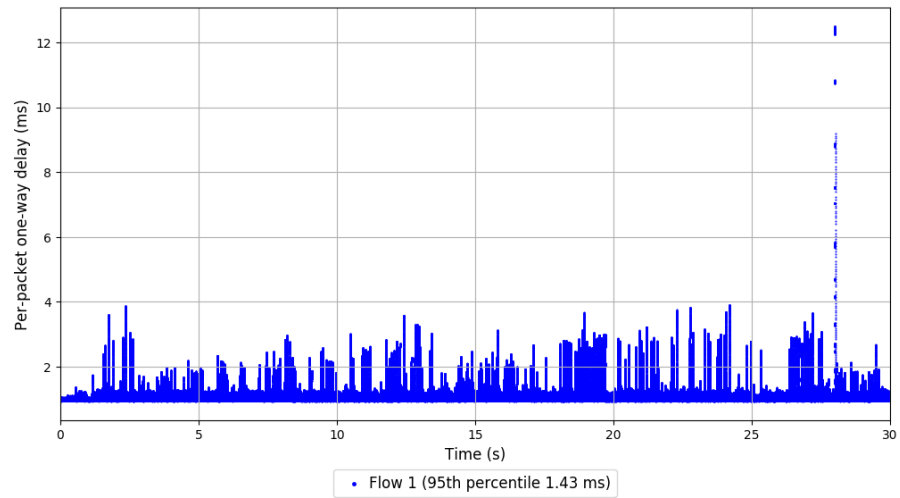
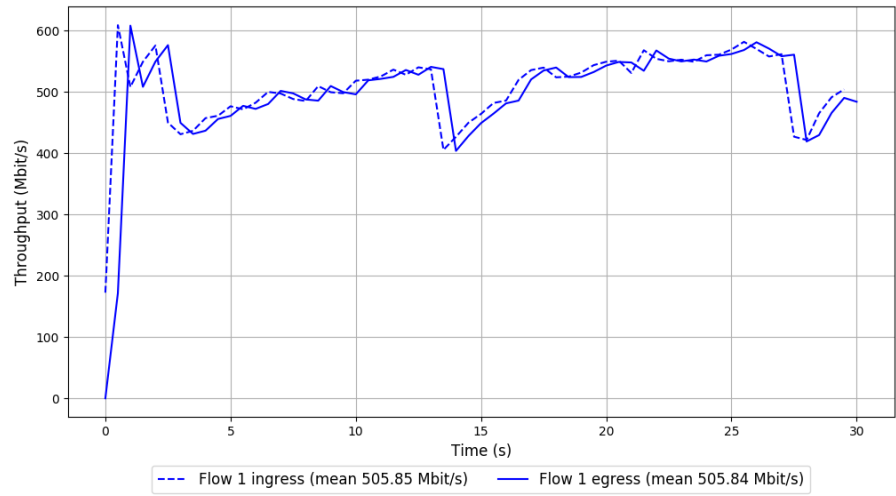
-- Flow 1:

Average throughput: 505.84 Mbit/s

95th percentile per-packet one-way delay: 1.429 ms

Loss rate: 0.07%

Run 10: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2018-07-24 23:43:15

End at: 2018-07-24 23:43:45

Local clock offset: 3.466 ms

Remote clock offset: 0.515 ms

Below is generated by plot.py at 2018-07-25 04:47:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 932.21 Mbit/s

95th percentile per-packet one-way delay: 1.986 ms

Loss rate: 0.07%

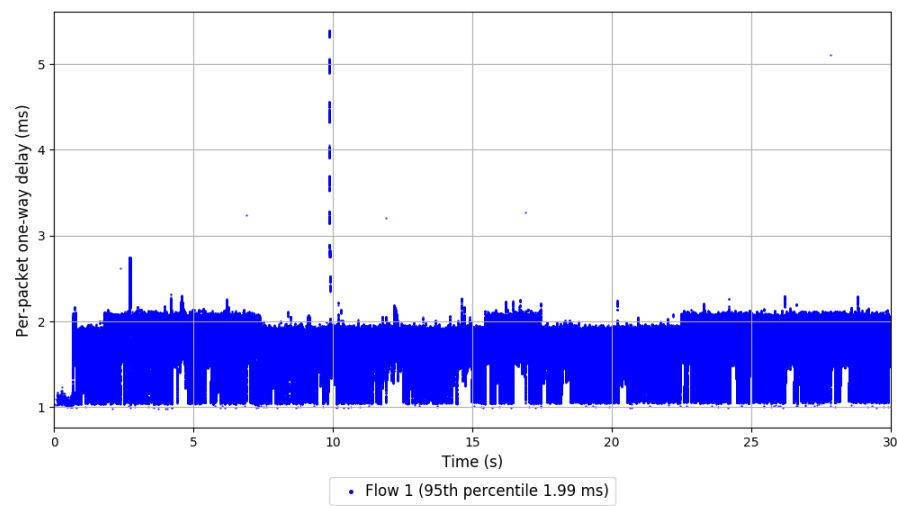
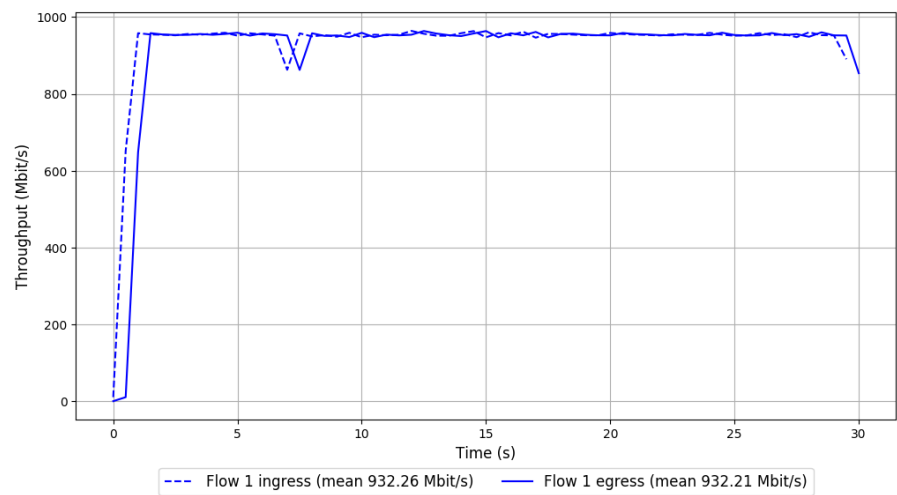
-- Flow 1:

Average throughput: 932.21 Mbit/s

95th percentile per-packet one-way delay: 1.986 ms

Loss rate: 0.07%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-07-25 00:09:07

End at: 2018-07-25 00:09:37

Local clock offset: 3.457 ms

Remote clock offset: 1.146 ms

Below is generated by plot.py at 2018-07-25 04:47:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 867.55 Mbit/s

95th percentile per-packet one-way delay: 1.897 ms

Loss rate: 0.08%

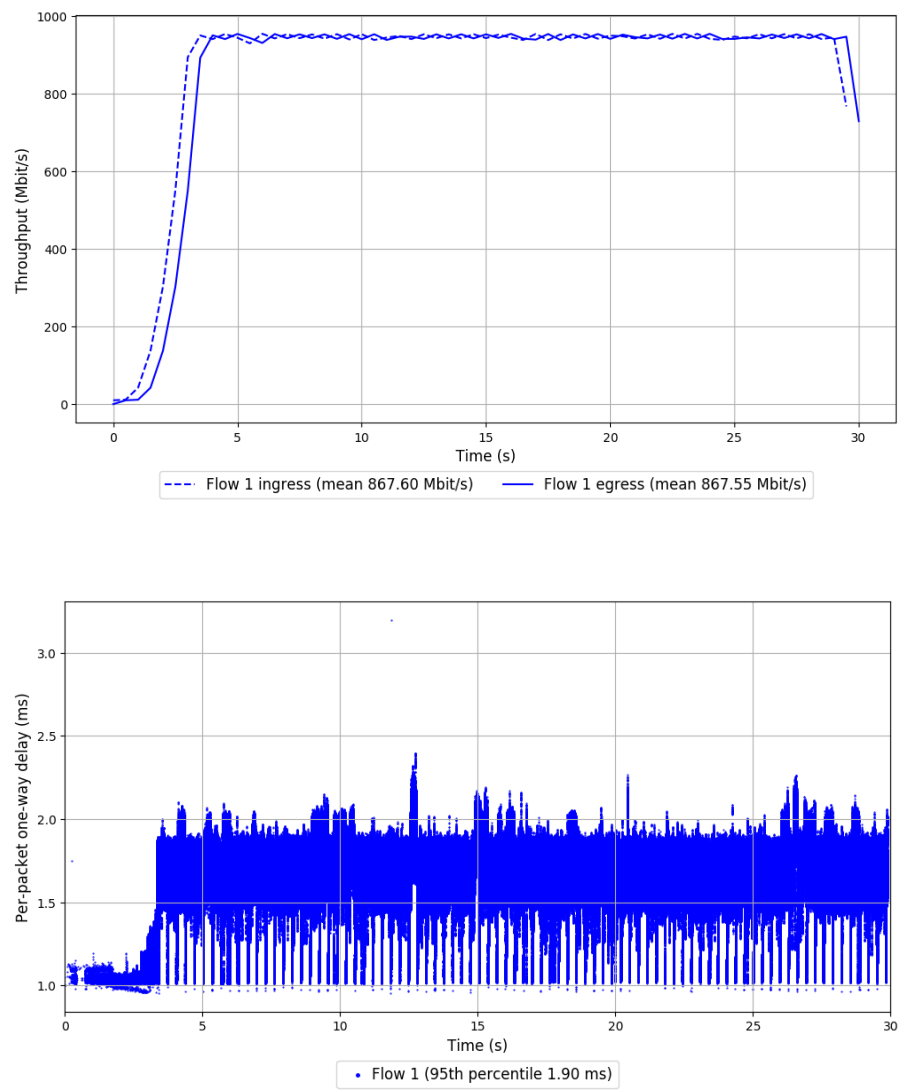
-- Flow 1:

Average throughput: 867.55 Mbit/s

95th percentile per-packet one-way delay: 1.897 ms

Loss rate: 0.08%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-07-25 00:34:54

End at: 2018-07-25 00:35:24

Local clock offset: 3.32 ms

Remote clock offset: 1.778 ms

Below is generated by plot.py at 2018-07-25 04:49:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 927.26 Mbit/s

95th percentile per-packet one-way delay: 1.884 ms

Loss rate: 0.32%

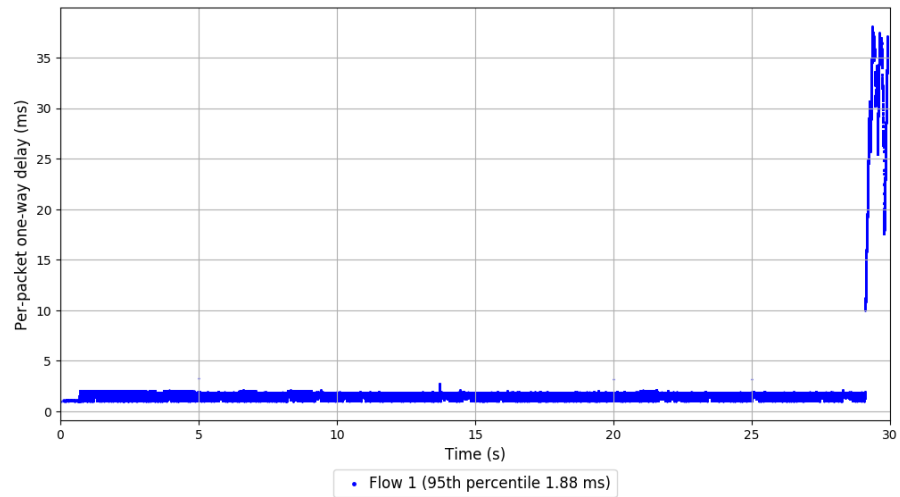
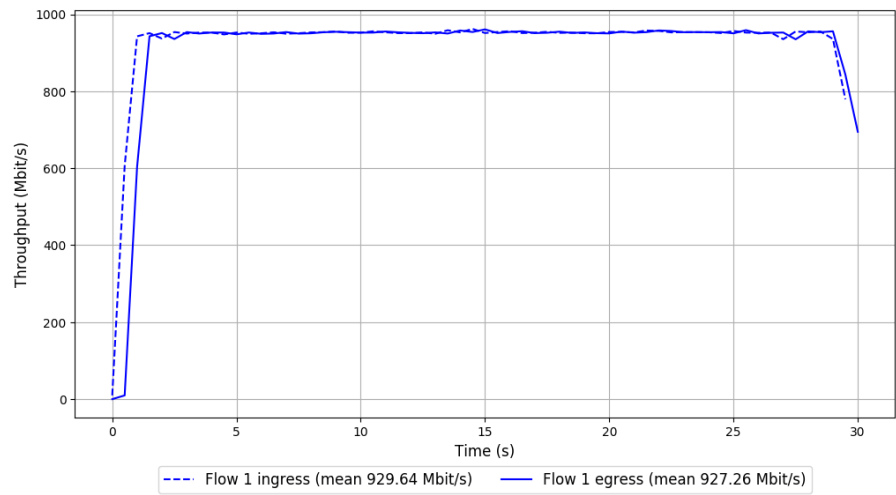
-- Flow 1:

Average throughput: 927.26 Mbit/s

95th percentile per-packet one-way delay: 1.884 ms

Loss rate: 0.32%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-07-25 01:00:42

End at: 2018-07-25 01:01:12

Local clock offset: 3.307 ms

Remote clock offset: 2.176 ms

Below is generated by plot.py at 2018-07-25 04:49:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 899.77 Mbit/s

95th percentile per-packet one-way delay: 35.386 ms

Loss rate: 1.18%

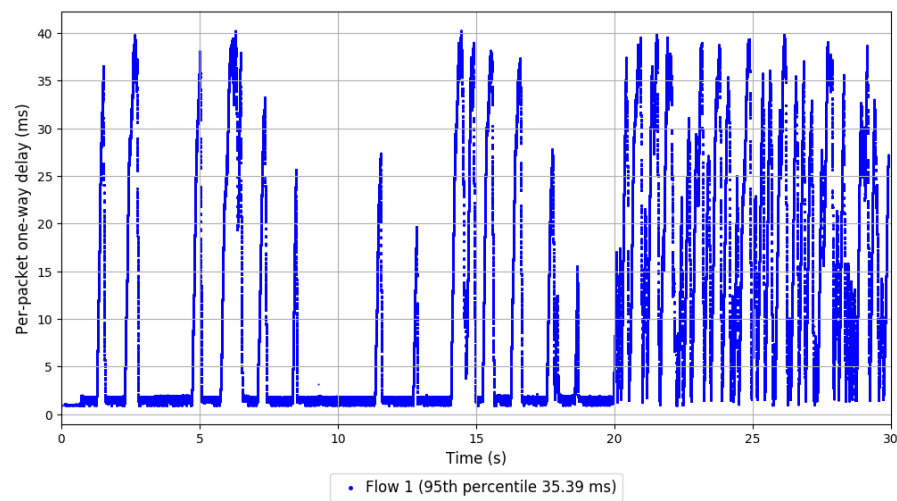
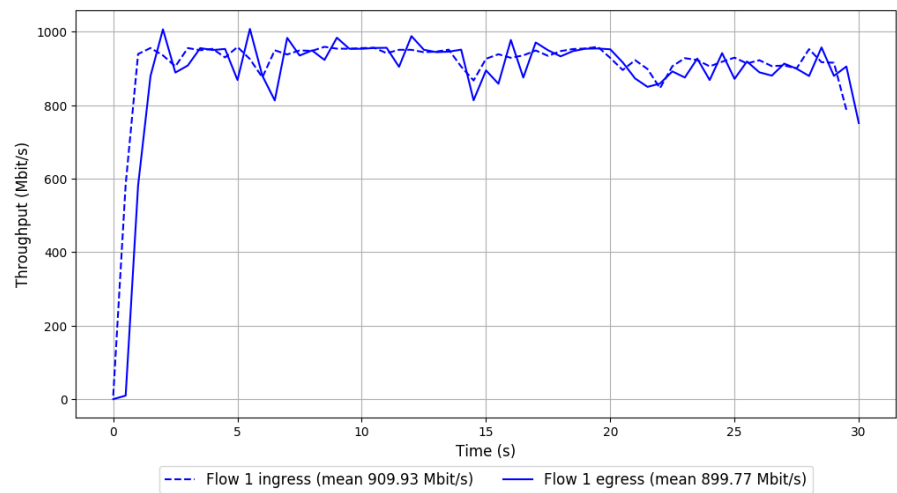
-- Flow 1:

Average throughput: 899.77 Mbit/s

95th percentile per-packet one-way delay: 35.386 ms

Loss rate: 1.18%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-07-25 01:26:43

End at: 2018-07-25 01:27:13

Local clock offset: 3.471 ms

Remote clock offset: 2.319 ms

Below is generated by plot.py at 2018-07-25 04:49:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 839.04 Mbit/s

95th percentile per-packet one-way delay: 39.764 ms

Loss rate: 2.79%

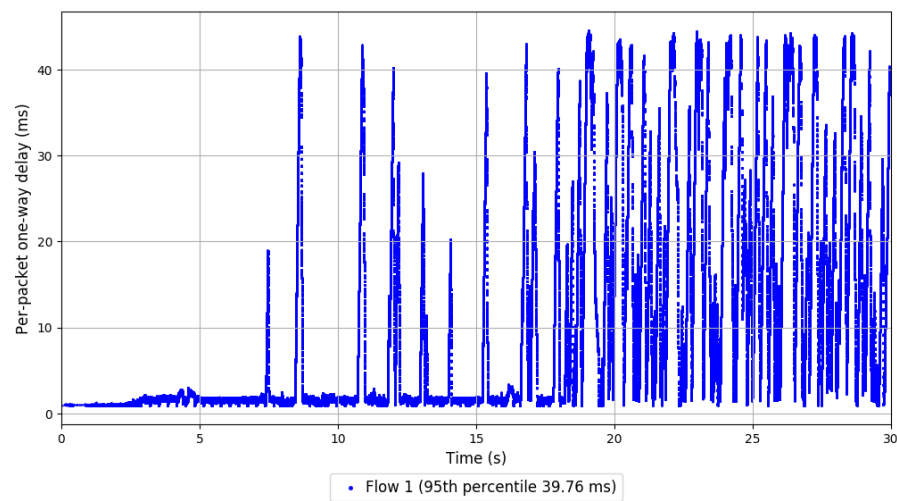
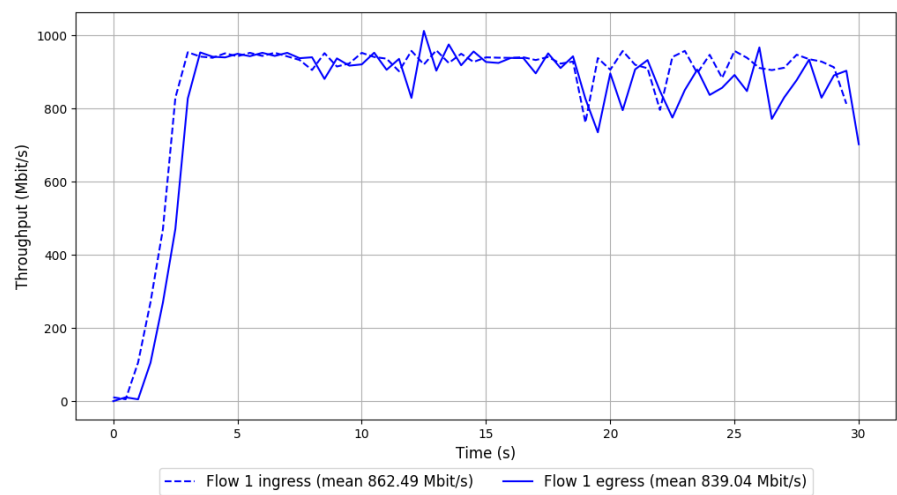
-- Flow 1:

Average throughput: 839.04 Mbit/s

95th percentile per-packet one-way delay: 39.764 ms

Loss rate: 2.79%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-07-25 01:52:29

End at: 2018-07-25 01:52:59

Local clock offset: 3.615 ms

Remote clock offset: 2.238 ms

Below is generated by plot.py at 2018-07-25 04:50:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 931.51 Mbit/s

95th percentile per-packet one-way delay: 1.865 ms

Loss rate: 0.07%

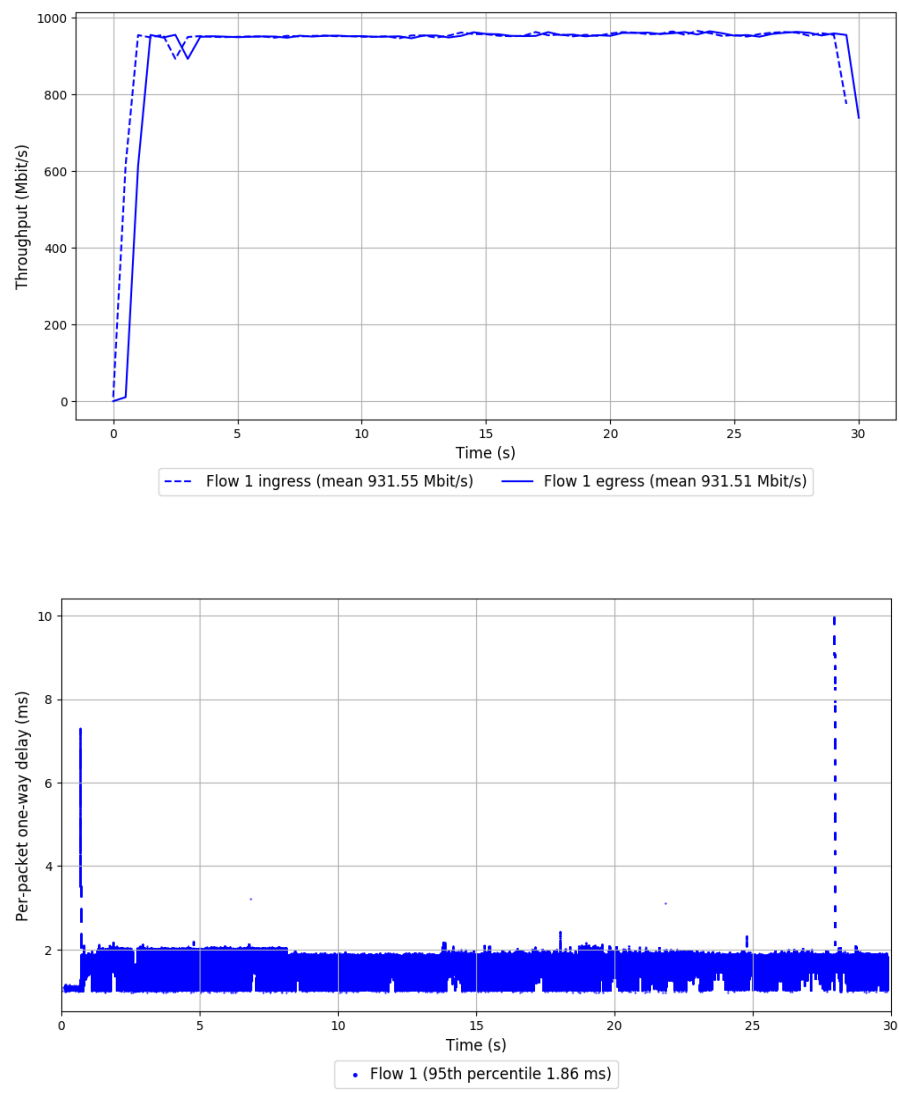
-- Flow 1:

Average throughput: 931.51 Mbit/s

95th percentile per-packet one-way delay: 1.865 ms

Loss rate: 0.07%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-07-25 02:18:23

End at: 2018-07-25 02:18:53

Local clock offset: 3.295 ms

Remote clock offset: 1.742 ms

Below is generated by plot.py at 2018-07-25 04:50:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 934.42 Mbit/s

95th percentile per-packet one-way delay: 1.787 ms

Loss rate: 0.07%

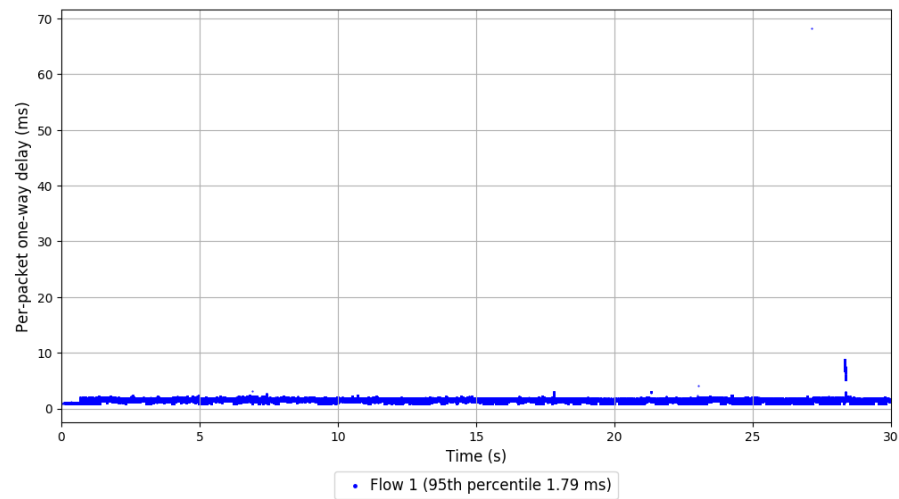
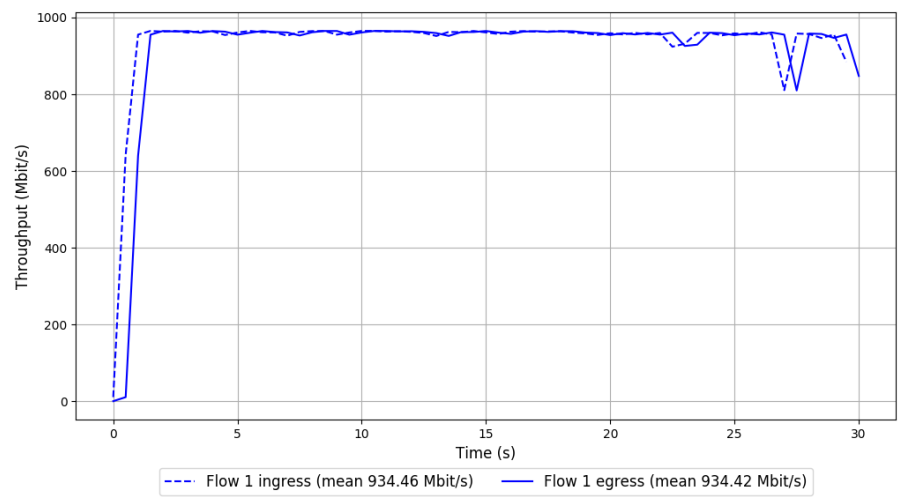
-- Flow 1:

Average throughput: 934.42 Mbit/s

95th percentile per-packet one-way delay: 1.787 ms

Loss rate: 0.07%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-07-25 02:44:16

End at: 2018-07-25 02:44:46

Local clock offset: 3.218 ms

Remote clock offset: 1.368 ms

Below is generated by plot.py at 2018-07-25 04:50:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 868.40 Mbit/s

95th percentile per-packet one-way delay: 12.282 ms

Loss rate: 0.31%

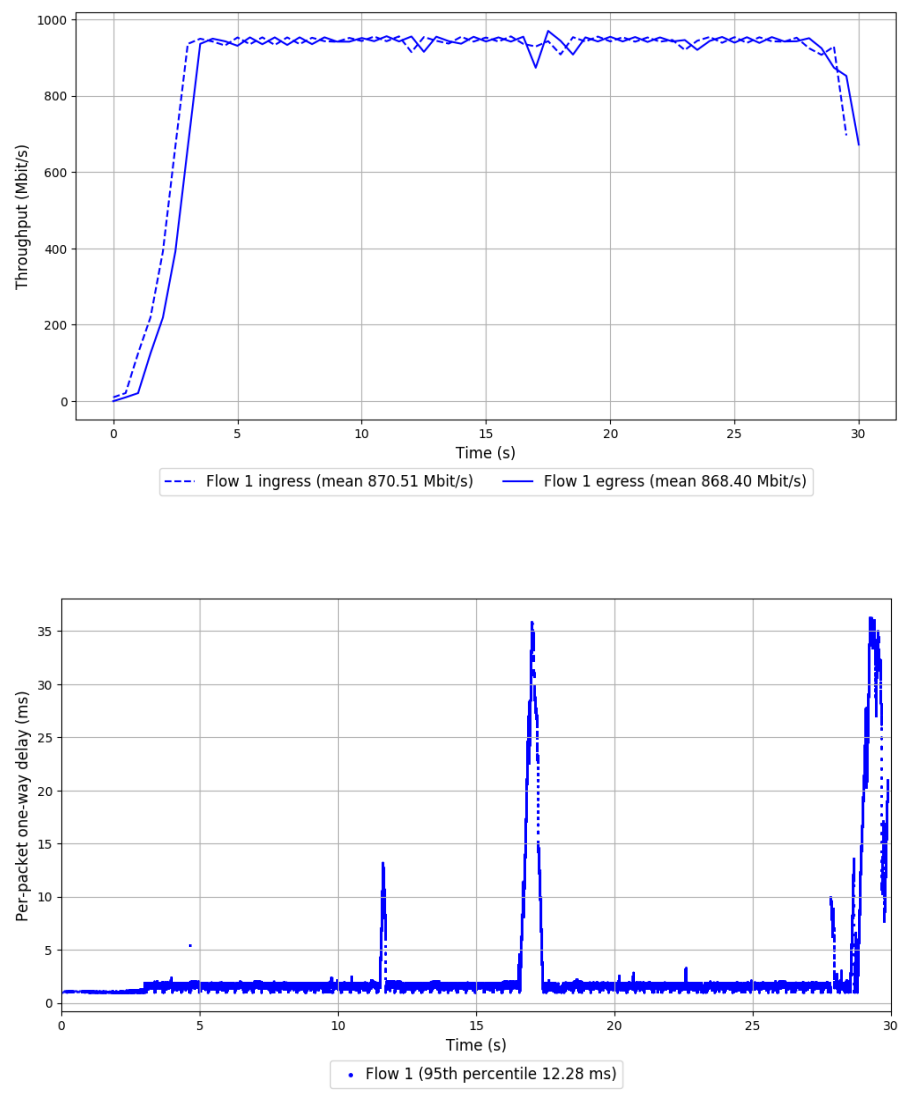
-- Flow 1:

Average throughput: 868.40 Mbit/s

95th percentile per-packet one-way delay: 12.282 ms

Loss rate: 0.31%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-07-25 03:10:07

End at: 2018-07-25 03:10:37

Local clock offset: 3.401 ms

Remote clock offset: 1.086 ms

Below is generated by plot.py at 2018-07-25 04:58:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 927.49 Mbit/s

95th percentile per-packet one-way delay: 4.481 ms

Loss rate: 0.13%

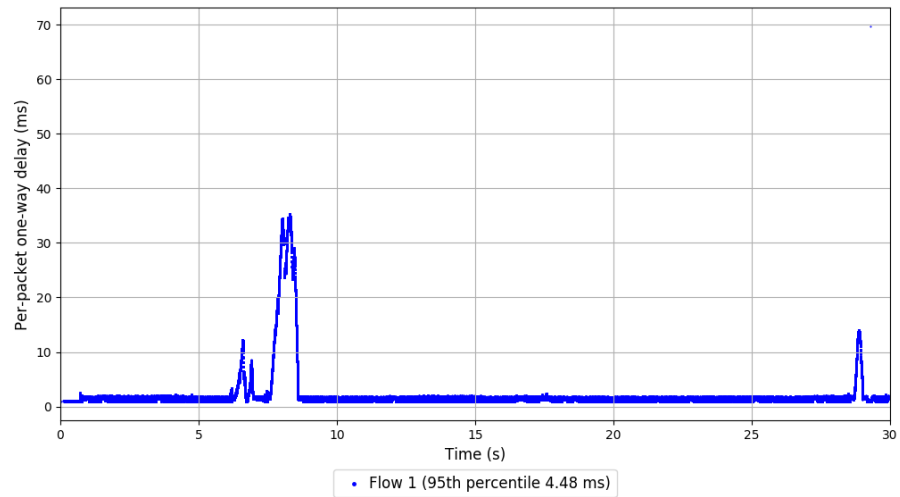
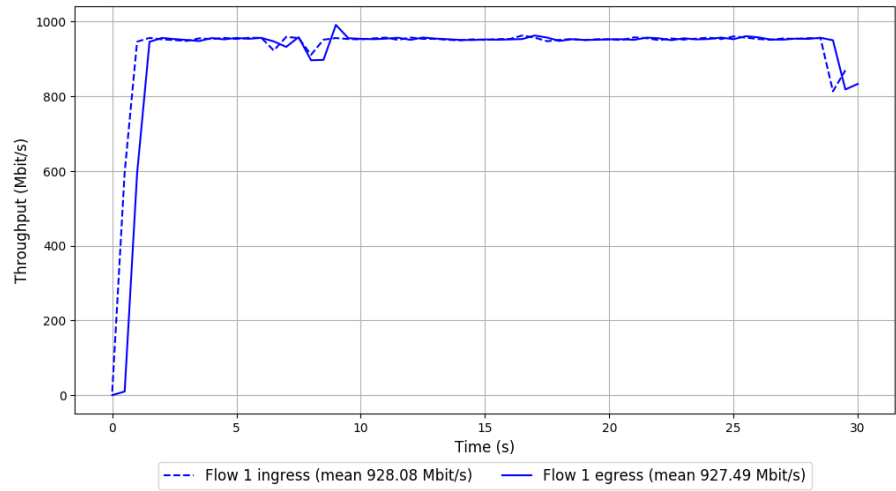
-- Flow 1:

Average throughput: 927.49 Mbit/s

95th percentile per-packet one-way delay: 4.481 ms

Loss rate: 0.13%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-07-25 03:35:59

End at: 2018-07-25 03:36:29

Local clock offset: 3.426 ms

Remote clock offset: 1.107 ms

Below is generated by plot.py at 2018-07-25 04:59:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 927.11 Mbit/s

95th percentile per-packet one-way delay: 1.754 ms

Loss rate: 0.07%

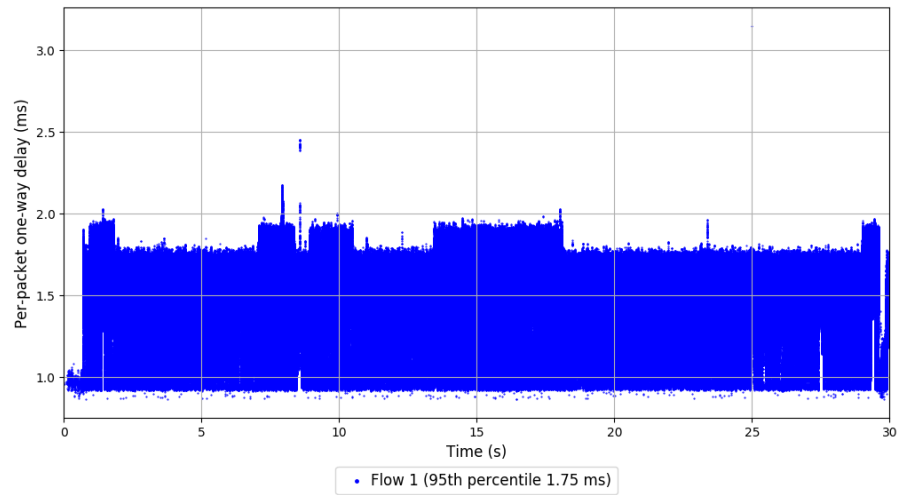
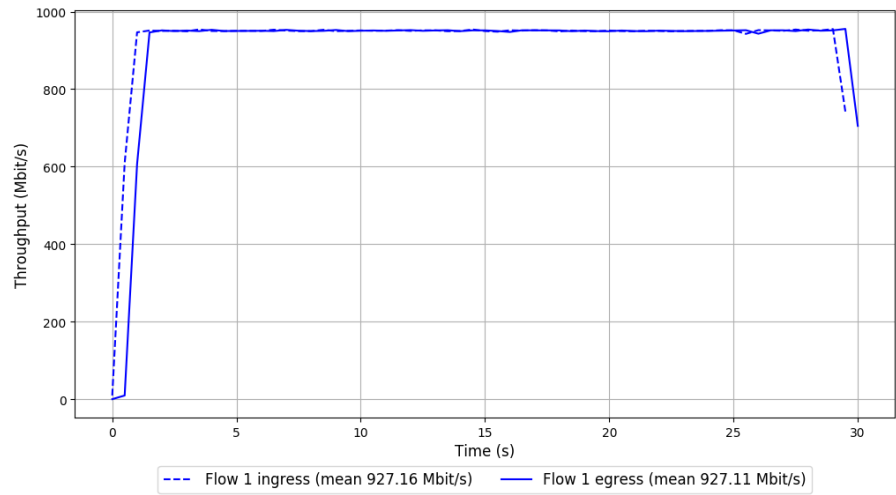
-- Flow 1:

Average throughput: 927.11 Mbit/s

95th percentile per-packet one-way delay: 1.754 ms

Loss rate: 0.07%

Run 10: Report of FillP — Data Link



Run 1: Statistics of FillP-Sheep

Start at: 2018-07-24 23:51:06

End at: 2018-07-24 23:51:36

Local clock offset: 3.4 ms

Remote clock offset: 0.788 ms

Below is generated by plot.py at 2018-07-25 05:00:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 811.60 Mbit/s

95th percentile per-packet one-way delay: 41.591 ms

Loss rate: 6.97%

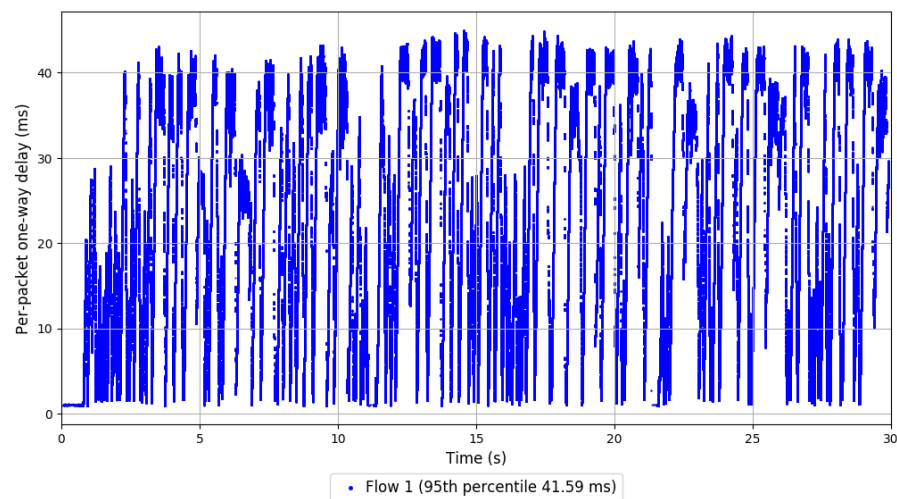
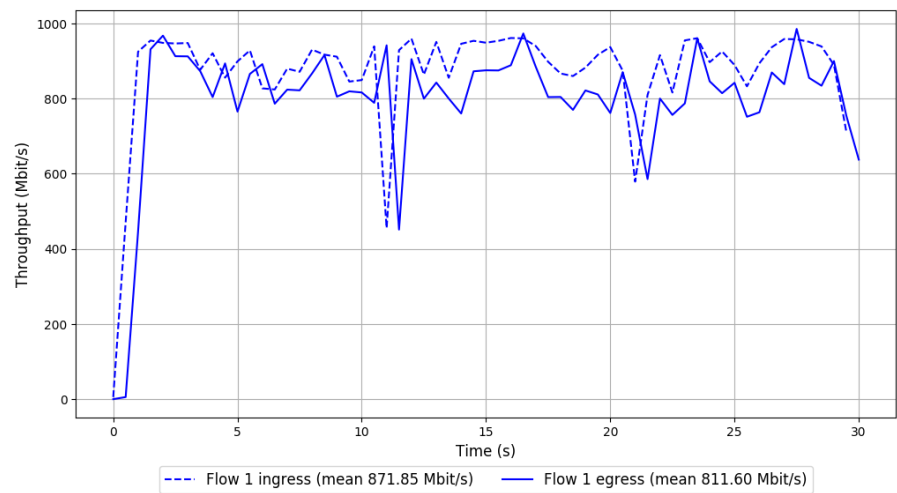
-- Flow 1:

Average throughput: 811.60 Mbit/s

95th percentile per-packet one-way delay: 41.591 ms

Loss rate: 6.97%

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

Start at: 2018-07-25 00:16:54

End at: 2018-07-25 00:17:24

Local clock offset: 3.376 ms

Remote clock offset: 1.341 ms

Below is generated by plot.py at 2018-07-25 05:01:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 812.29 Mbit/s

95th percentile per-packet one-way delay: 42.489 ms

Loss rate: 6.49%

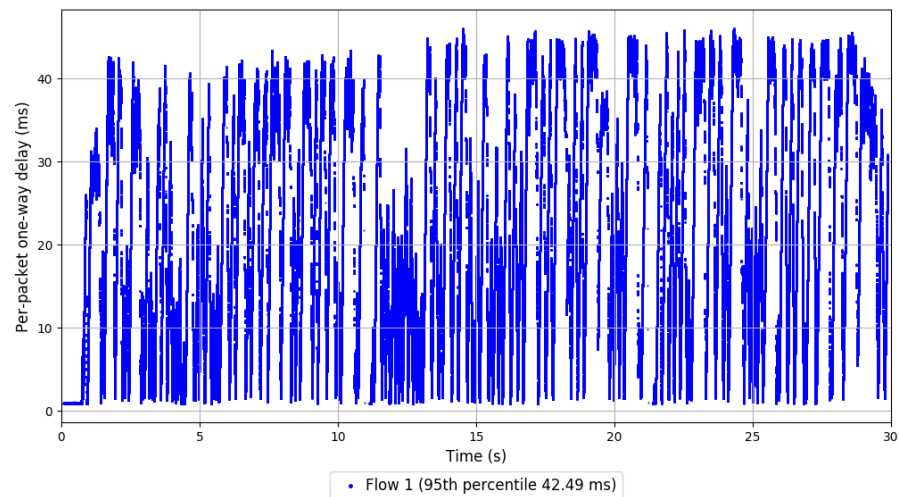
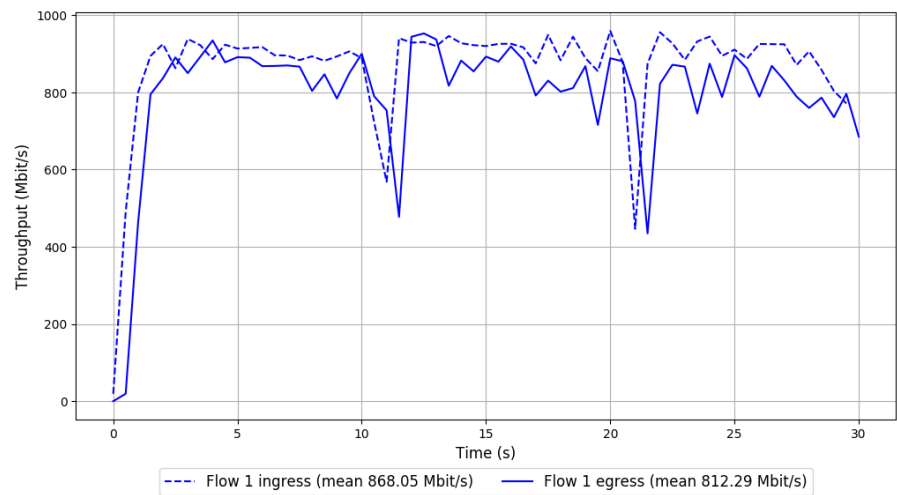
-- Flow 1:

Average throughput: 812.29 Mbit/s

95th percentile per-packet one-way delay: 42.489 ms

Loss rate: 6.49%

Run 2: Report of FillP-Sheep — Data Link



Run 3: Statistics of FillP-Sheep

Start at: 2018-07-25 00:42:41

End at: 2018-07-25 00:43:11

Local clock offset: 3.406 ms

Remote clock offset: 1.881 ms

Below is generated by plot.py at 2018-07-25 05:01:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 841.24 Mbit/s

95th percentile per-packet one-way delay: 41.583 ms

Loss rate: 5.65%

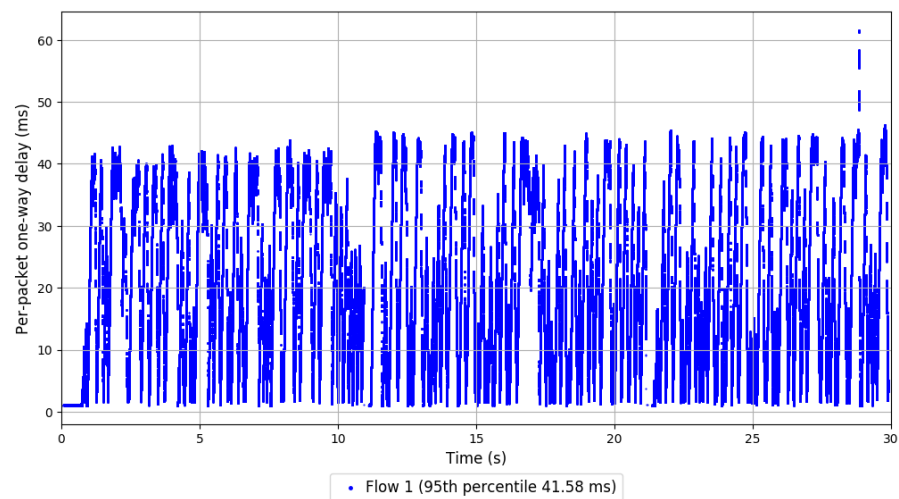
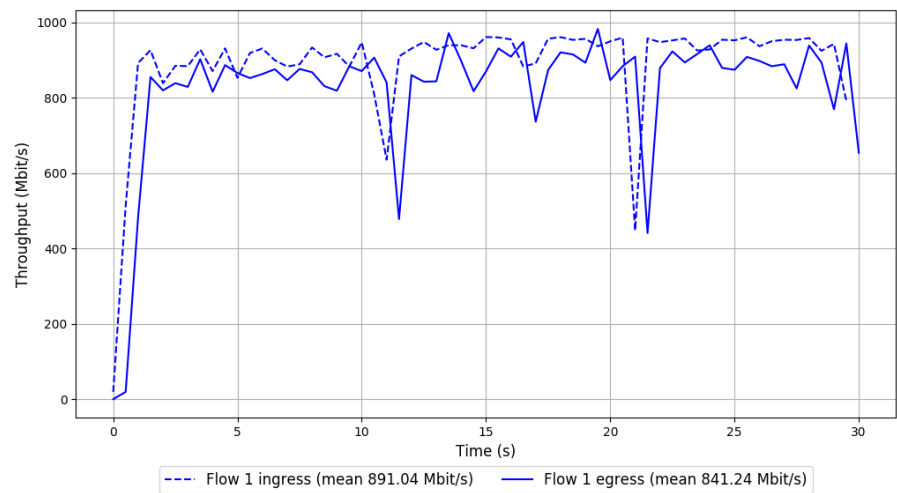
-- Flow 1:

Average throughput: 841.24 Mbit/s

95th percentile per-packet one-way delay: 41.583 ms

Loss rate: 5.65%

Run 3: Report of FillP-Sheep — Data Link



Run 4: Statistics of FillP-Sheep

Start at: 2018-07-25 01:08:39

End at: 2018-07-25 01:09:09

Local clock offset: 3.533 ms

Remote clock offset: 2.219 ms

Below is generated by plot.py at 2018-07-25 05:02:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 921.50 Mbit/s

95th percentile per-packet one-way delay: 1.878 ms

Loss rate: 0.07%

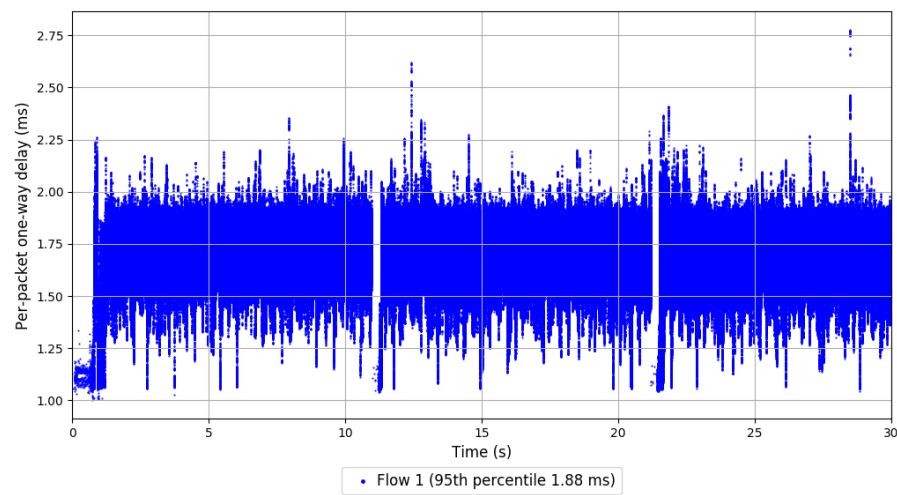
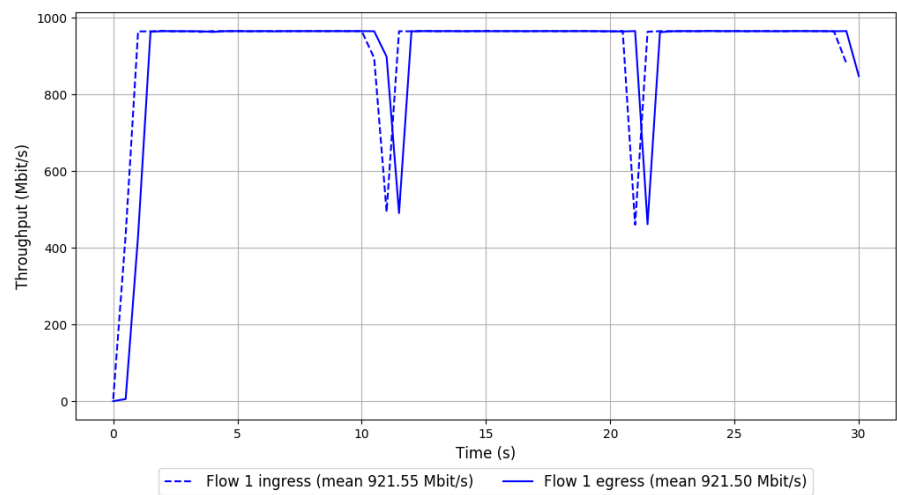
-- Flow 1:

Average throughput: 921.50 Mbit/s

95th percentile per-packet one-way delay: 1.878 ms

Loss rate: 0.07%

Run 4: Report of FillP-Sheep — Data Link



Run 5: Statistics of FillP-Sheep

Start at: 2018-07-25 01:34:27

End at: 2018-07-25 01:34:57

Local clock offset: 3.599 ms

Remote clock offset: 2.287 ms

Below is generated by plot.py at 2018-07-25 05:03:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 920.92 Mbit/s

95th percentile per-packet one-way delay: 3.005 ms

Loss rate: 0.10%

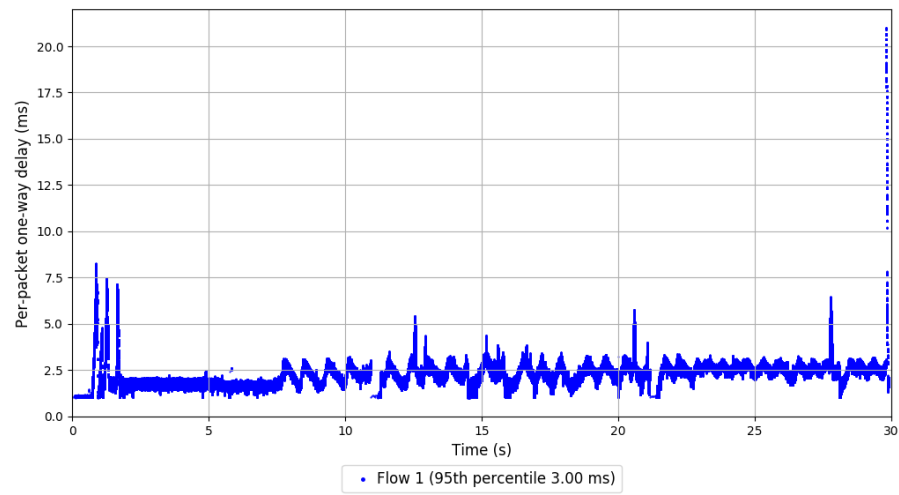
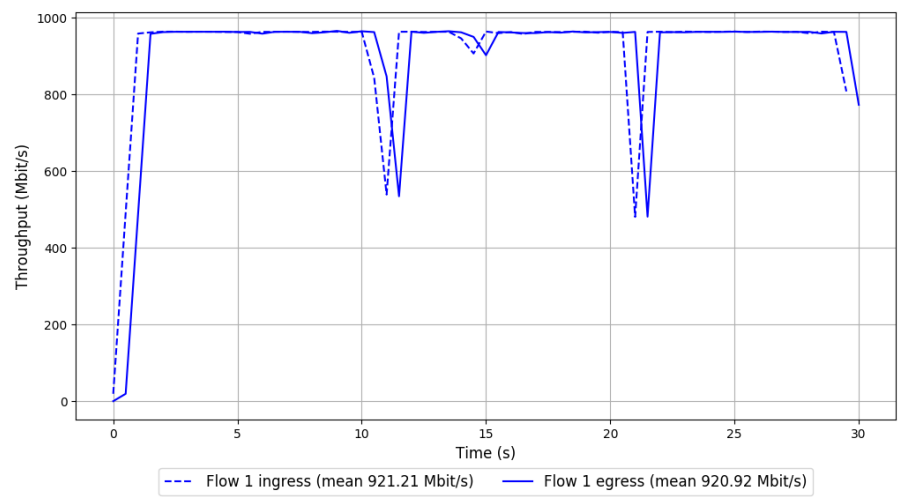
-- Flow 1:

Average throughput: 920.92 Mbit/s

95th percentile per-packet one-way delay: 3.005 ms

Loss rate: 0.10%

Run 5: Report of FillP-Sheep — Data Link



Run 6: Statistics of FillP-Sheep

Start at: 2018-07-25 02:00:21

End at: 2018-07-25 02:00:51

Local clock offset: 3.487 ms

Remote clock offset: 2.117 ms

Below is generated by plot.py at 2018-07-25 05:03:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 921.21 Mbit/s

95th percentile per-packet one-way delay: 2.413 ms

Loss rate: 0.08%

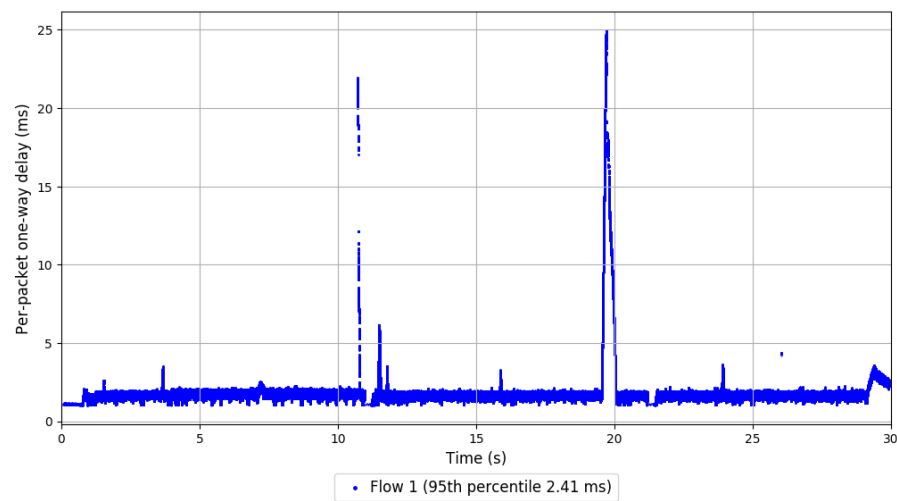
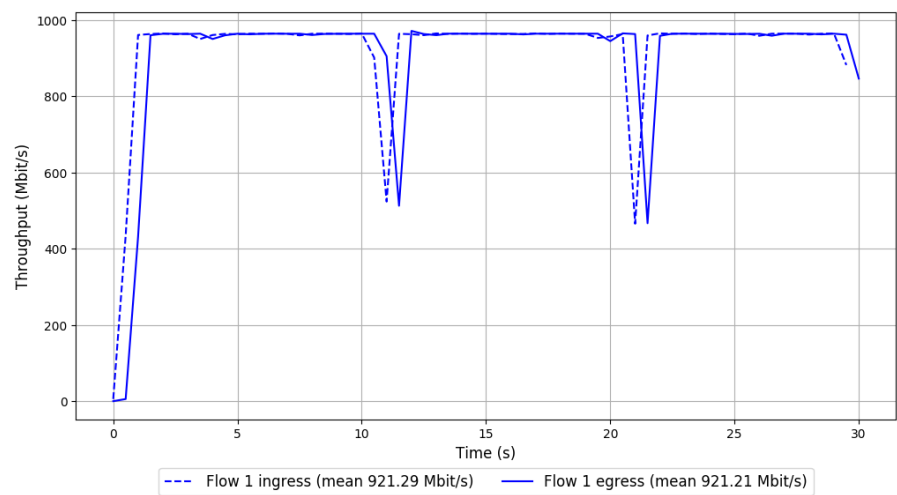
-- Flow 1:

Average throughput: 921.21 Mbit/s

95th percentile per-packet one-way delay: 2.413 ms

Loss rate: 0.08%

Run 6: Report of FillP-Sheep — Data Link



Run 7: Statistics of FillP-Sheep

Start at: 2018-07-25 02:26:15

End at: 2018-07-25 02:26:45

Local clock offset: 3.217 ms

Remote clock offset: 1.581 ms

Below is generated by plot.py at 2018-07-25 05:12:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 922.53 Mbit/s

95th percentile per-packet one-way delay: 1.941 ms

Loss rate: 0.07%

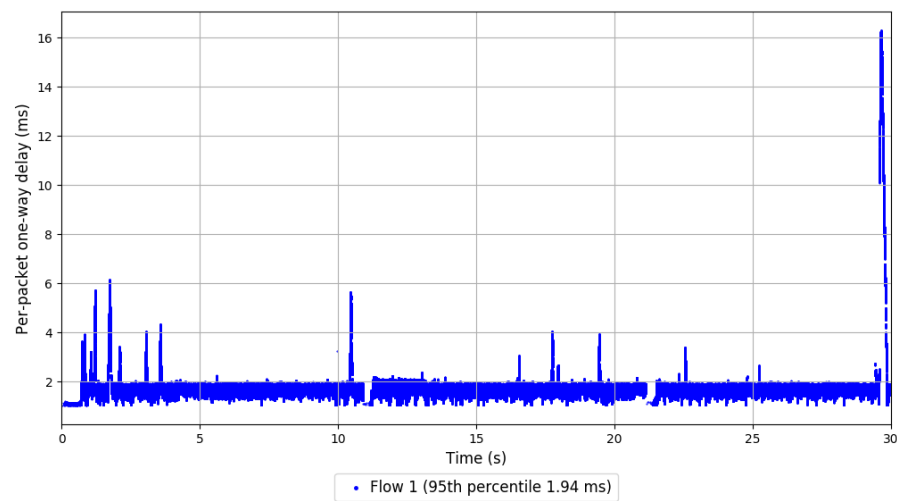
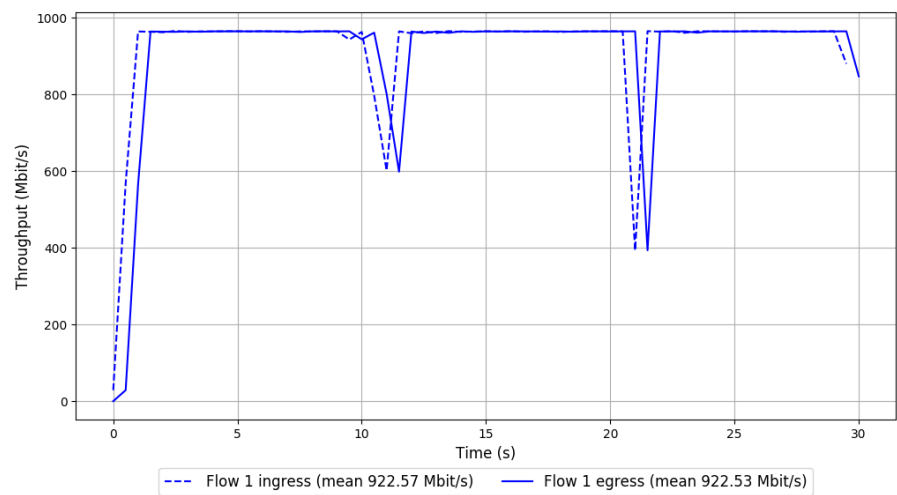
-- Flow 1:

Average throughput: 922.53 Mbit/s

95th percentile per-packet one-way delay: 1.941 ms

Loss rate: 0.07%

Run 7: Report of FillP-Sheep — Data Link



Run 8: Statistics of FillP-Sheep

Start at: 2018-07-25 02:52:12

End at: 2018-07-25 02:52:42

Local clock offset: 3.094 ms

Remote clock offset: 1.219 ms

Below is generated by plot.py at 2018-07-25 05:12:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 920.72 Mbit/s

95th percentile per-packet one-way delay: 2.700 ms

Loss rate: 0.07%

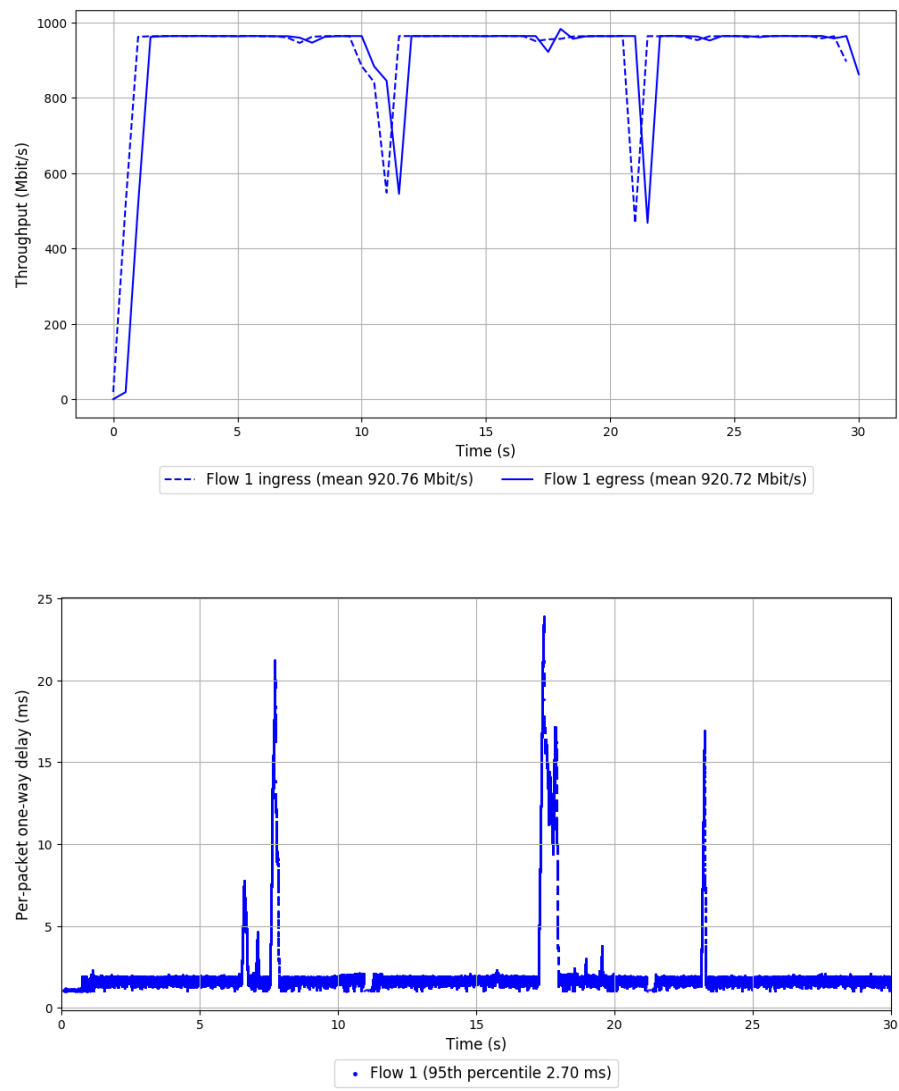
-- Flow 1:

Average throughput: 920.72 Mbit/s

95th percentile per-packet one-way delay: 2.700 ms

Loss rate: 0.07%

Run 8: Report of FillP-Sheep — Data Link



Run 9: Statistics of FillP-Sheep

Start at: 2018-07-25 03:17:55

End at: 2018-07-25 03:18:25

Local clock offset: 3.533 ms

Remote clock offset: 0.998 ms

Below is generated by plot.py at 2018-07-25 05:12:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 921.84 Mbit/s

95th percentile per-packet one-way delay: 2.351 ms

Loss rate: 0.07%

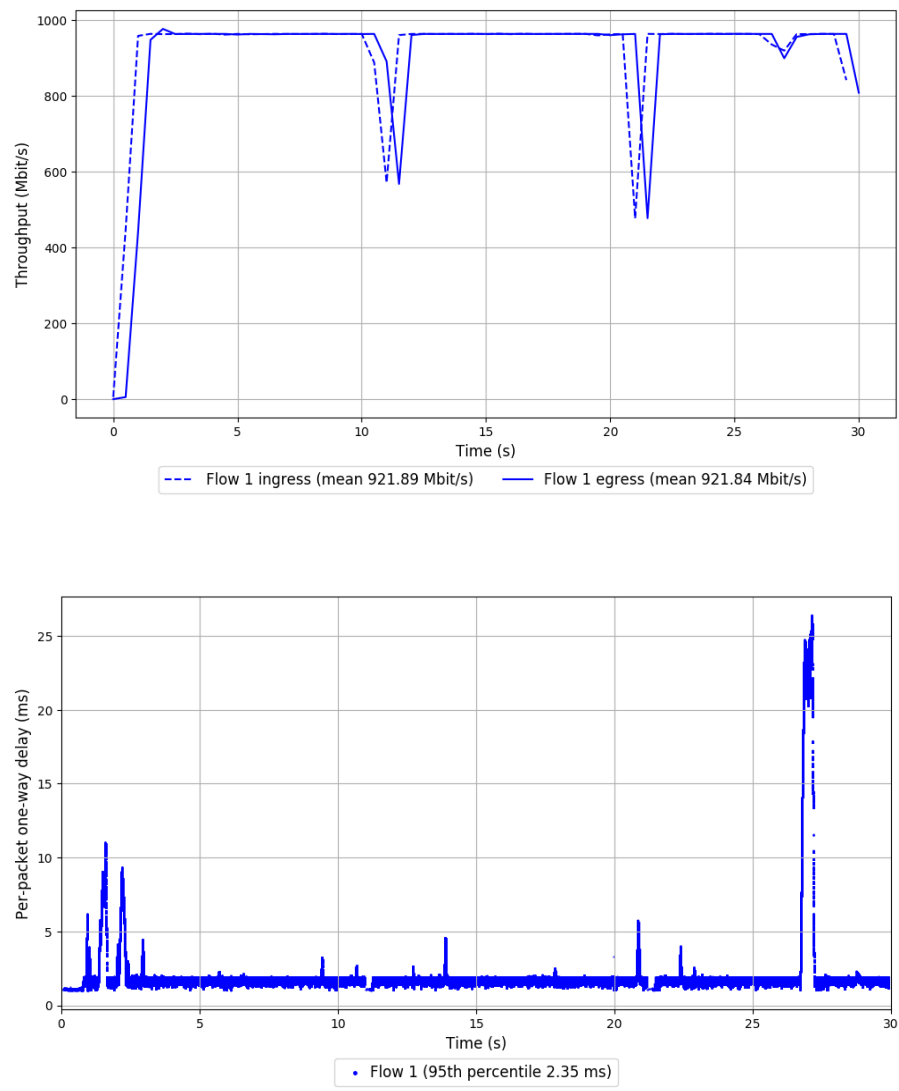
-- Flow 1:

Average throughput: 921.84 Mbit/s

95th percentile per-packet one-way delay: 2.351 ms

Loss rate: 0.07%

Run 9: Report of FillP-Sheep — Data Link



Run 10: Statistics of FillP-Sheep

Start at: 2018-07-25 03:43:56

End at: 2018-07-25 03:44:26

Local clock offset: 3.465 ms

Remote clock offset: 1.127 ms

Below is generated by plot.py at 2018-07-25 05:13:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 908.62 Mbit/s

95th percentile per-packet one-way delay: 25.245 ms

Loss rate: 0.09%

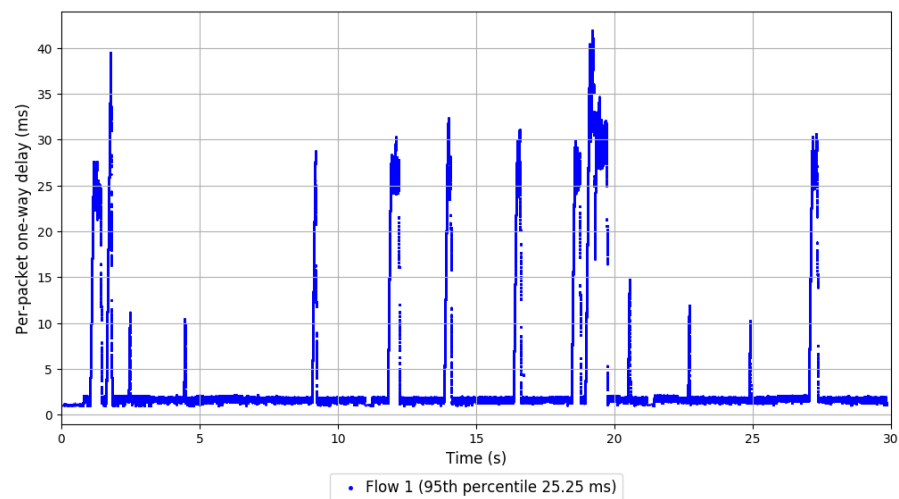
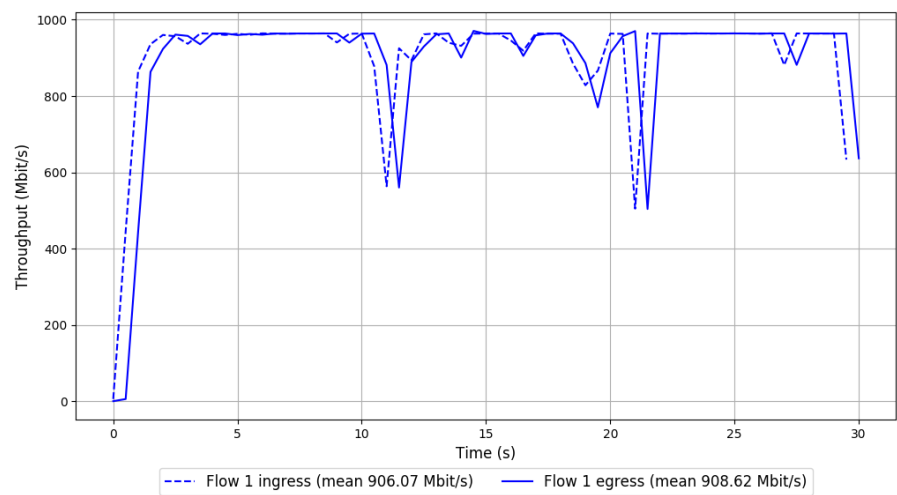
-- Flow 1:

Average throughput: 908.62 Mbit/s

95th percentile per-packet one-way delay: 25.245 ms

Loss rate: 0.09%

Run 10: Report of FillP-Sheep — Data Link

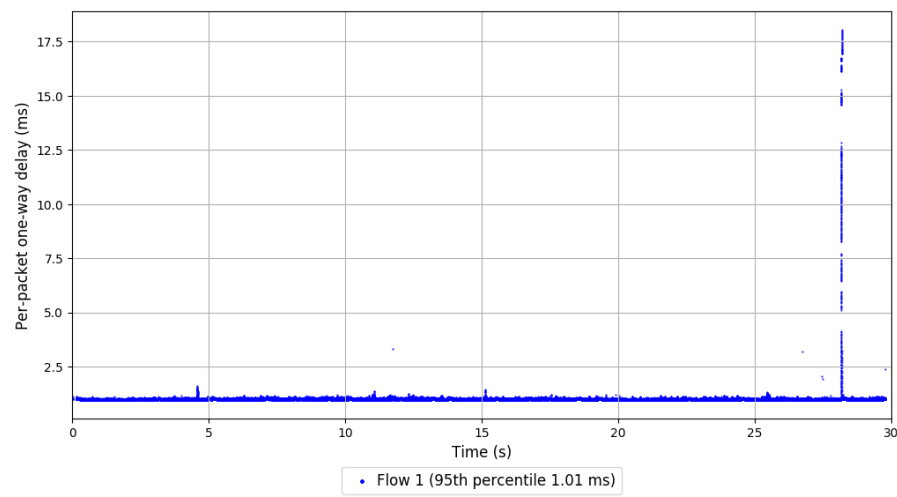
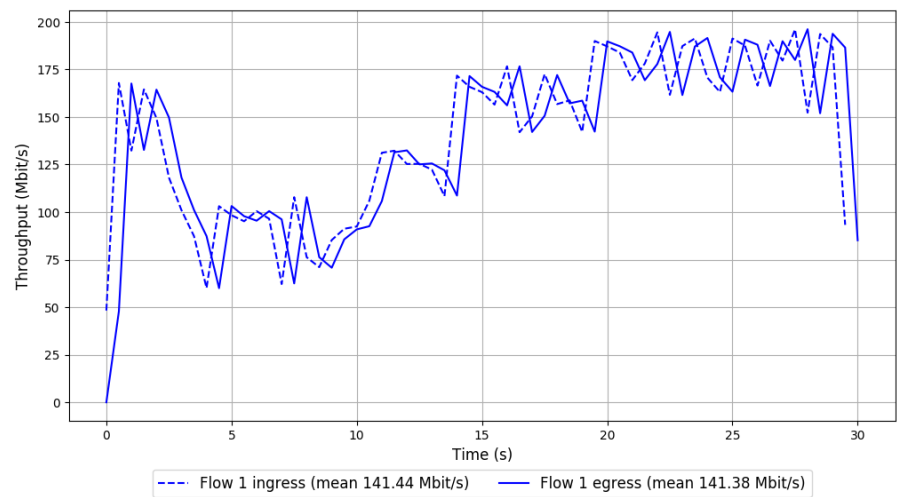


```
Run 1: Statistics of Indigo

Start at: 2018-07-25 00:00:20
End at: 2018-07-25 00:00:50
Local clock offset: 3.26 ms
Remote clock offset: 0.991 ms

# Below is generated by plot.py at 2018-07-25 05:13:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 141.38 Mbit/s
95th percentile per-packet one-way delay: 1.012 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 141.38 Mbit/s
95th percentile per-packet one-way delay: 1.012 ms
Loss rate: 0.10%
```

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2018-07-25 00:26:08

End at: 2018-07-25 00:26:38

Local clock offset: 3.282 ms

Remote clock offset: 1.558 ms

Below is generated by plot.py at 2018-07-25 05:13:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 164.33 Mbit/s

95th percentile per-packet one-way delay: 1.018 ms

Loss rate: 0.05%

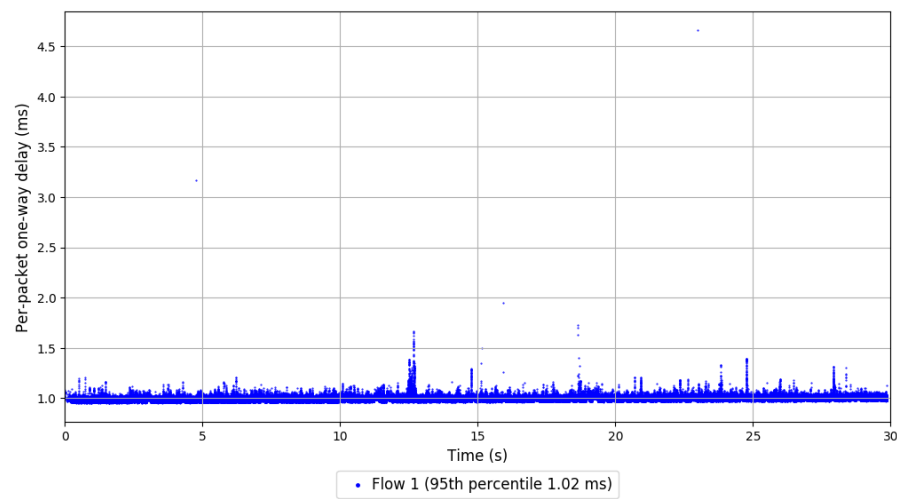
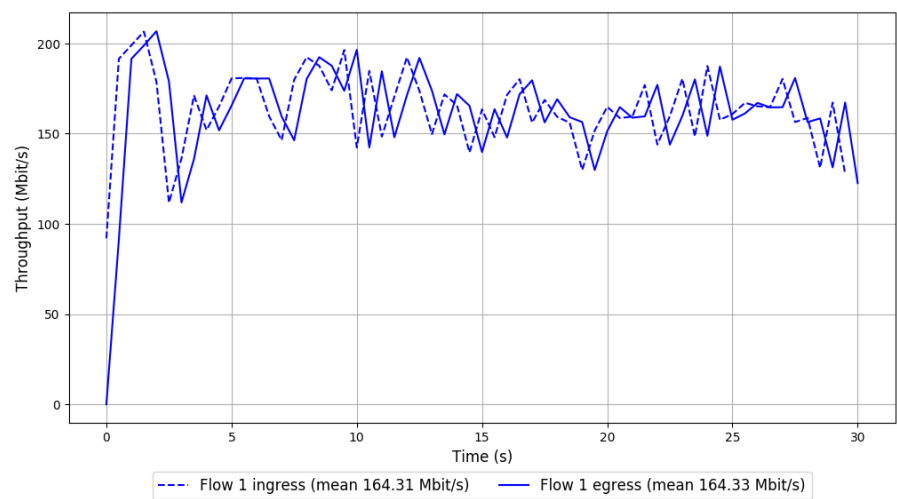
-- Flow 1:

Average throughput: 164.33 Mbit/s

95th percentile per-packet one-way delay: 1.018 ms

Loss rate: 0.05%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-07-25 00:51:53

End at: 2018-07-25 00:52:23

Local clock offset: 3.378 ms

Remote clock offset: 2.0 ms

Below is generated by plot.py at 2018-07-25 05:13:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 158.04 Mbit/s

95th percentile per-packet one-way delay: 1.071 ms

Loss rate: 0.07%

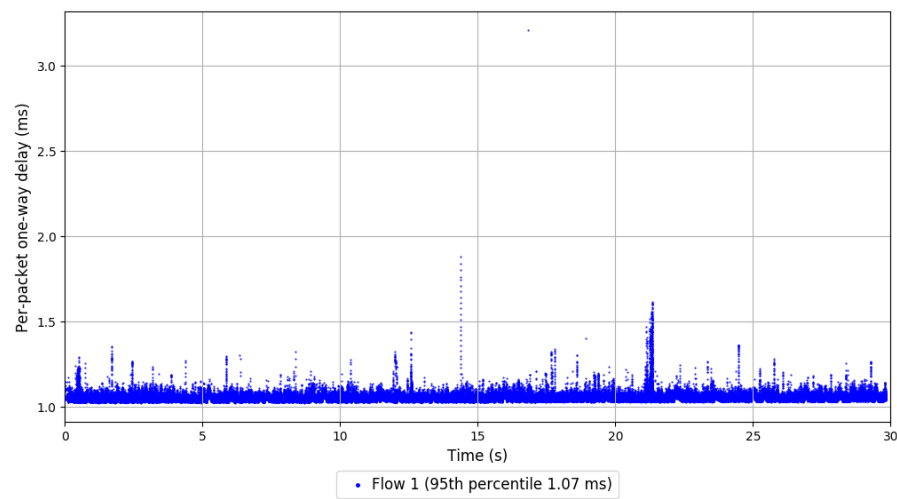
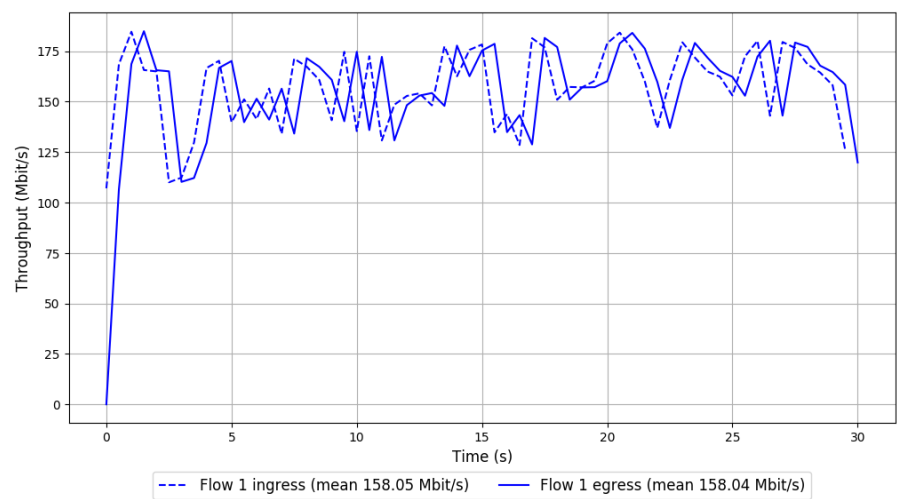
-- Flow 1:

Average throughput: 158.04 Mbit/s

95th percentile per-packet one-way delay: 1.071 ms

Loss rate: 0.07%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-07-25 01:17:57

End at: 2018-07-25 01:18:27

Local clock offset: 3.492 ms

Remote clock offset: 2.369 ms

Below is generated by plot.py at 2018-07-25 05:13:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 128.56 Mbit/s

95th percentile per-packet one-way delay: 0.980 ms

Loss rate: 0.10%

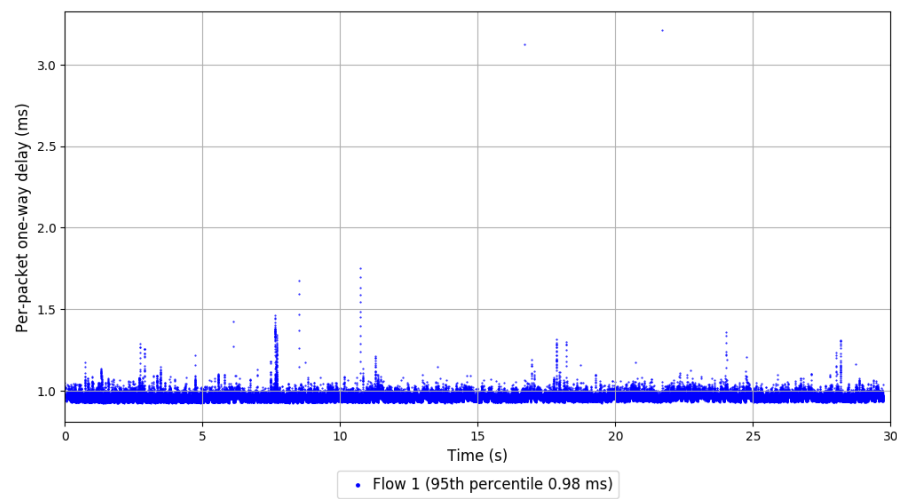
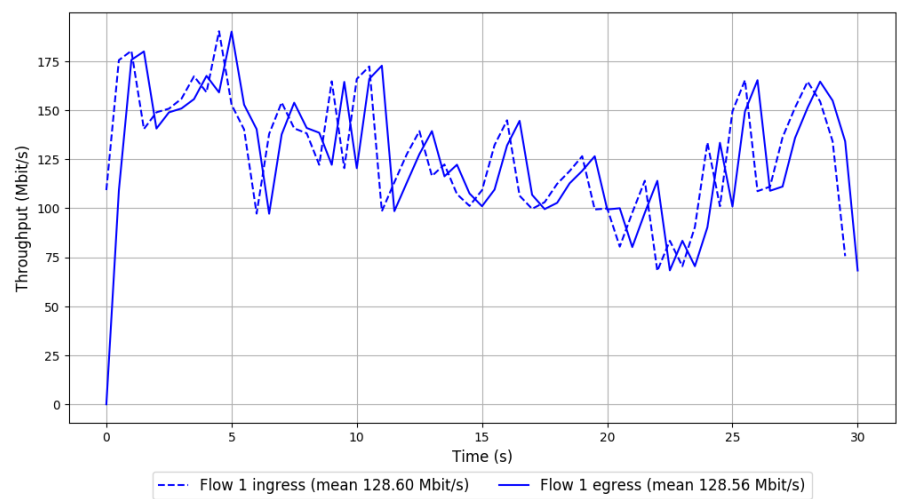
-- Flow 1:

Average throughput: 128.56 Mbit/s

95th percentile per-packet one-way delay: 0.980 ms

Loss rate: 0.10%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-07-25 01:43:44

End at: 2018-07-25 01:44:14

Local clock offset: 3.686 ms

Remote clock offset: 2.22 ms

Below is generated by plot.py at 2018-07-25 05:13:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 117.63 Mbit/s

95th percentile per-packet one-way delay: 1.104 ms

Loss rate: 0.03%

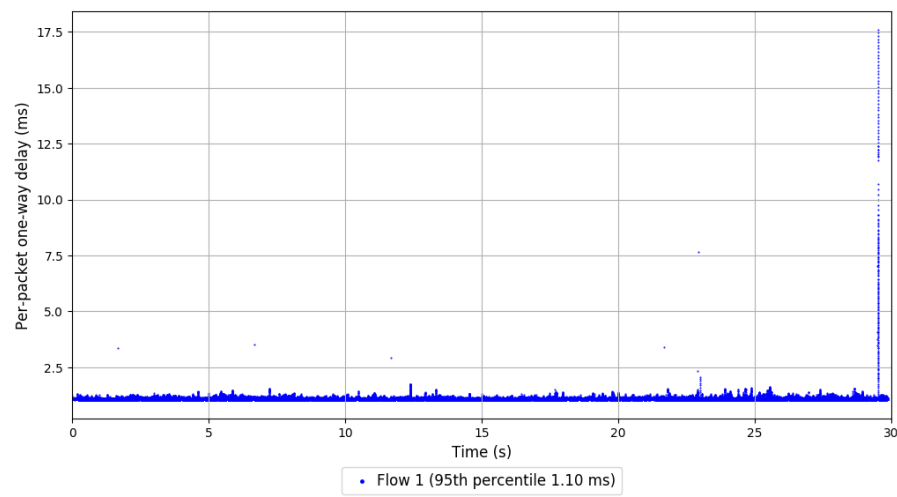
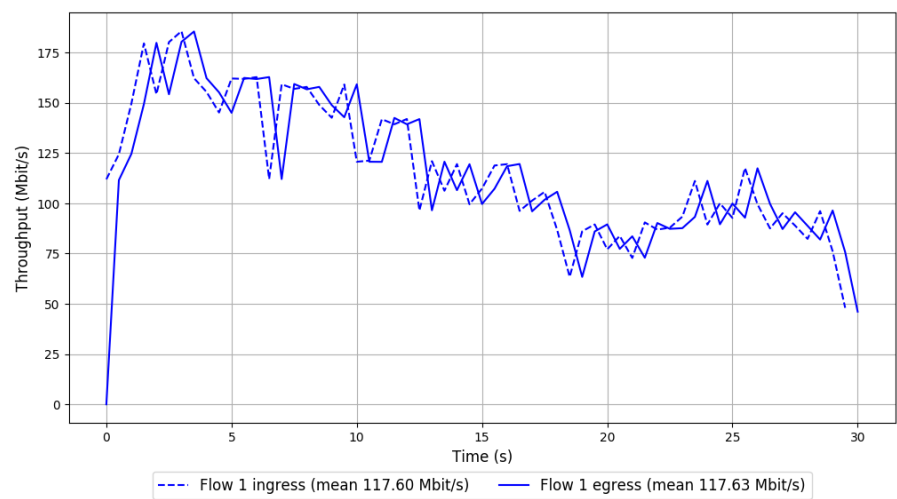
-- Flow 1:

Average throughput: 117.63 Mbit/s

95th percentile per-packet one-way delay: 1.104 ms

Loss rate: 0.03%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2018-07-25 02:09:38

End at: 2018-07-25 02:10:08

Local clock offset: 3.515 ms

Remote clock offset: 1.919 ms

Below is generated by plot.py at 2018-07-25 05:13:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 158.69 Mbit/s

95th percentile per-packet one-way delay: 1.071 ms

Loss rate: 0.08%

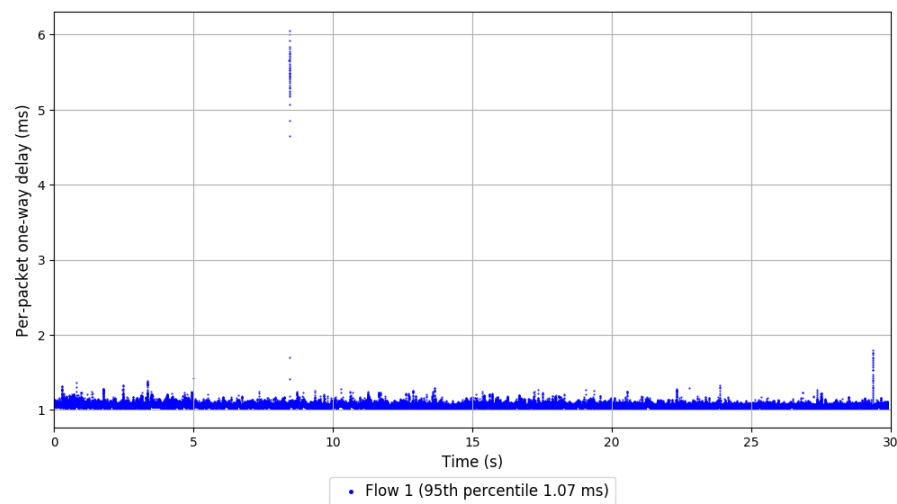
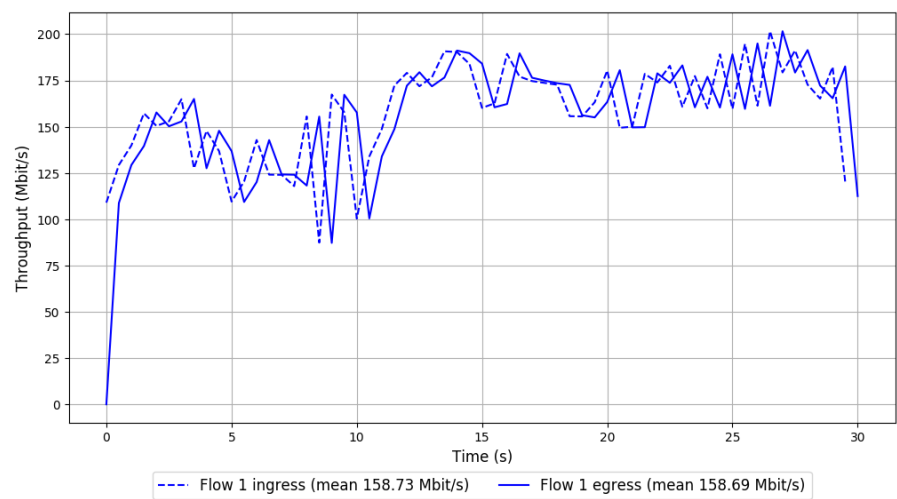
-- Flow 1:

Average throughput: 158.69 Mbit/s

95th percentile per-packet one-way delay: 1.071 ms

Loss rate: 0.08%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2018-07-25 02:35:32

End at: 2018-07-25 02:36:02

Local clock offset: 3.209 ms

Remote clock offset: 1.466 ms

Below is generated by plot.py at 2018-07-25 05:13:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 103.72 Mbit/s

95th percentile per-packet one-way delay: 1.078 ms

Loss rate: 0.12%

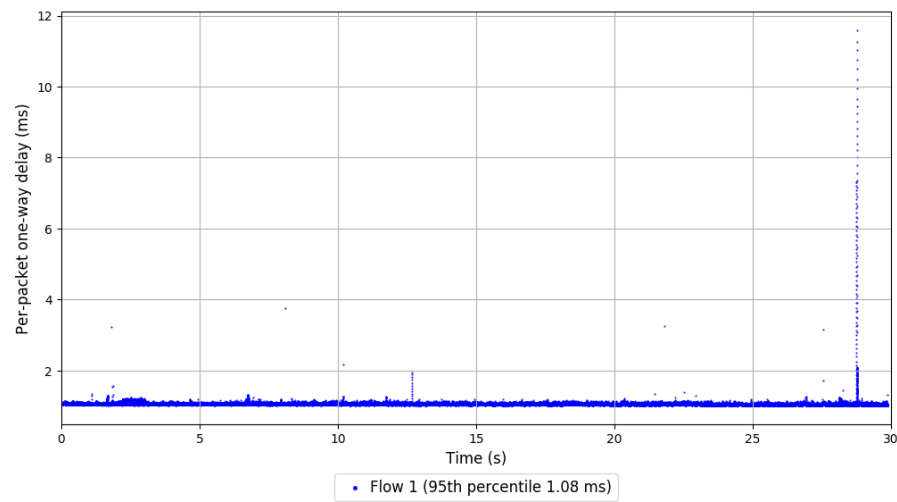
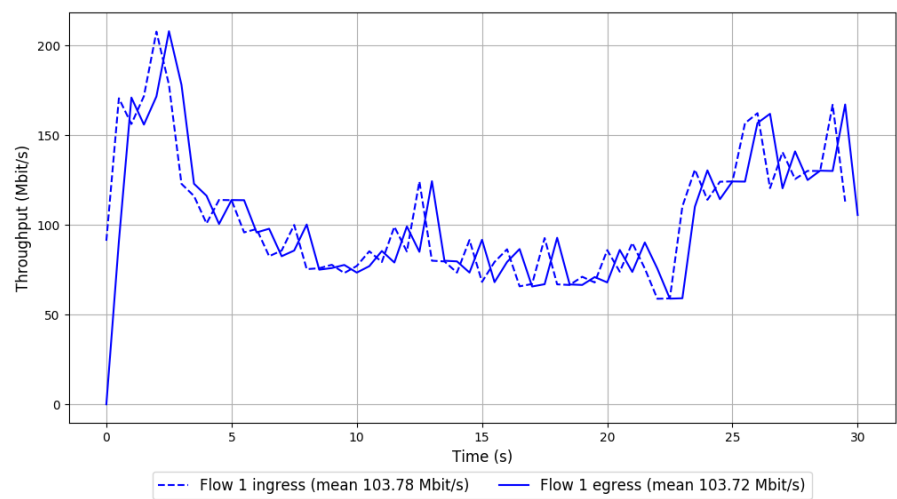
-- Flow 1:

Average throughput: 103.72 Mbit/s

95th percentile per-packet one-way delay: 1.078 ms

Loss rate: 0.12%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2018-07-25 03:01:25

End at: 2018-07-25 03:01:55

Local clock offset: 2.799 ms

Remote clock offset: 1.089 ms

Below is generated by plot.py at 2018-07-25 05:13:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.14 Mbit/s

95th percentile per-packet one-way delay: 0.984 ms

Loss rate: 0.06%

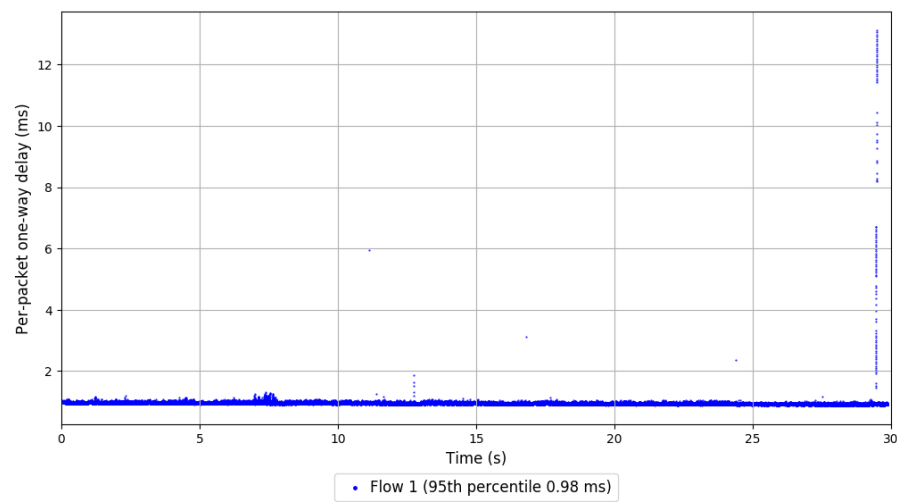
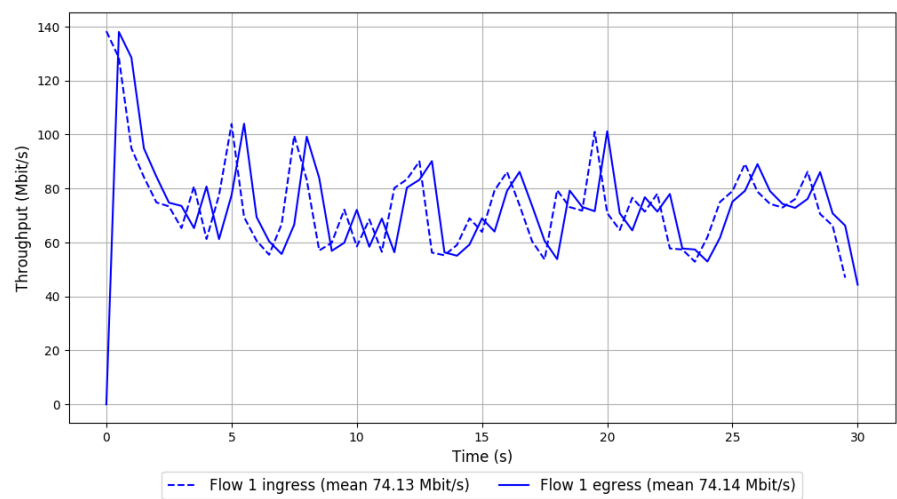
-- Flow 1:

Average throughput: 74.14 Mbit/s

95th percentile per-packet one-way delay: 0.984 ms

Loss rate: 0.06%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2018-07-25 03:27:10

End at: 2018-07-25 03:27:40

Local clock offset: 3.534 ms

Remote clock offset: 1.071 ms

Below is generated by plot.py at 2018-07-25 05:13:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 171.81 Mbit/s

95th percentile per-packet one-way delay: 1.051 ms

Loss rate: 0.07%

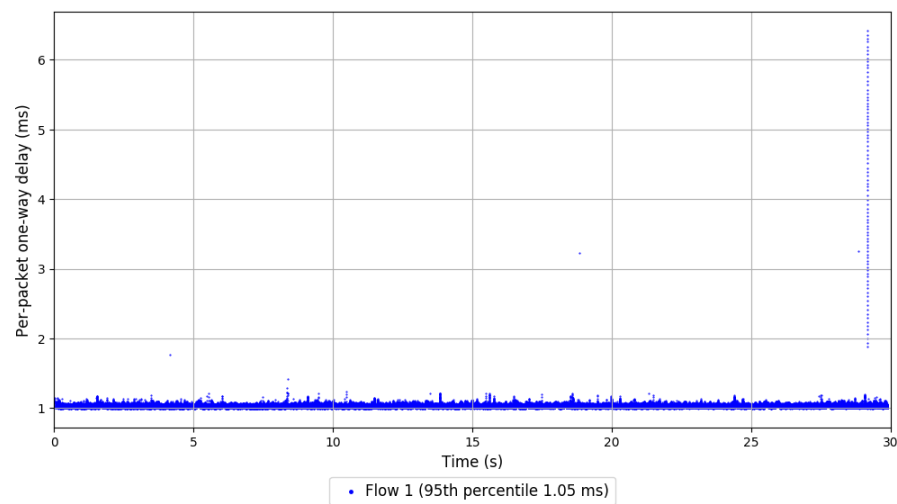
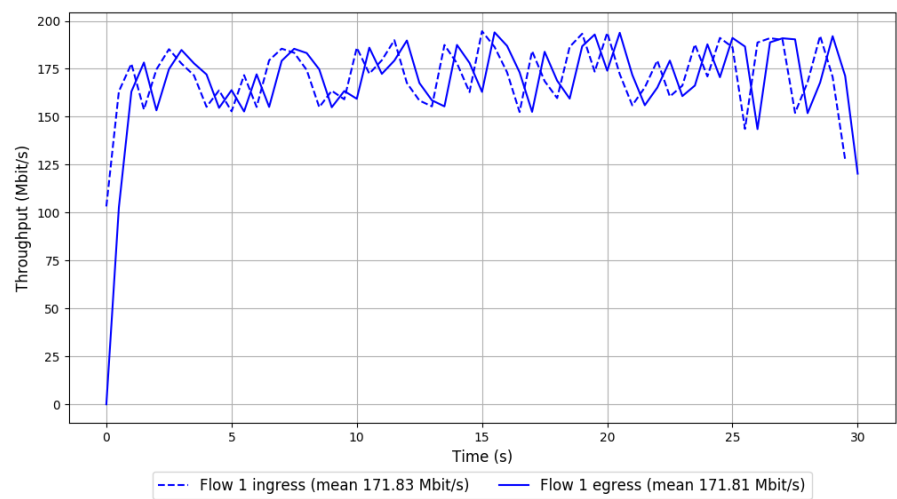
-- Flow 1:

Average throughput: 171.81 Mbit/s

95th percentile per-packet one-way delay: 1.051 ms

Loss rate: 0.07%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-07-25 03:53:11

End at: 2018-07-25 03:53:41

Local clock offset: 3.353 ms

Remote clock offset: 1.172 ms

Below is generated by plot.py at 2018-07-25 05:13:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 177.63 Mbit/s

95th percentile per-packet one-way delay: 1.116 ms

Loss rate: 0.07%

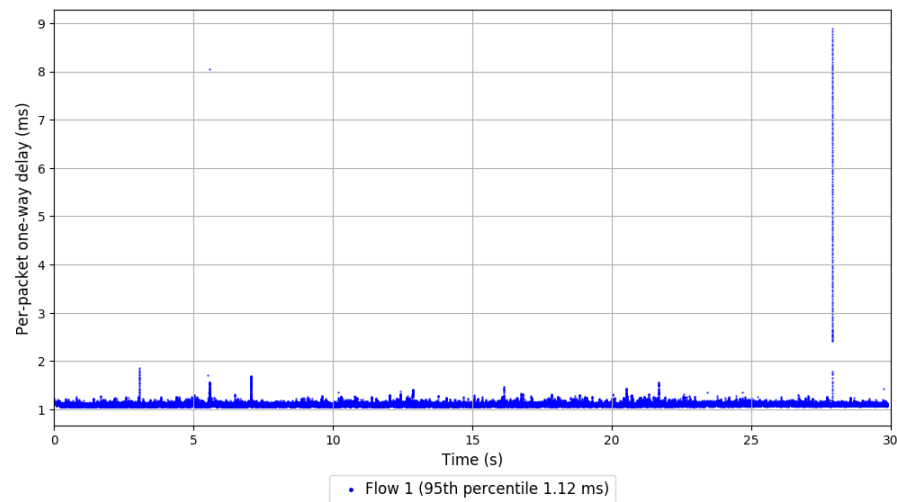
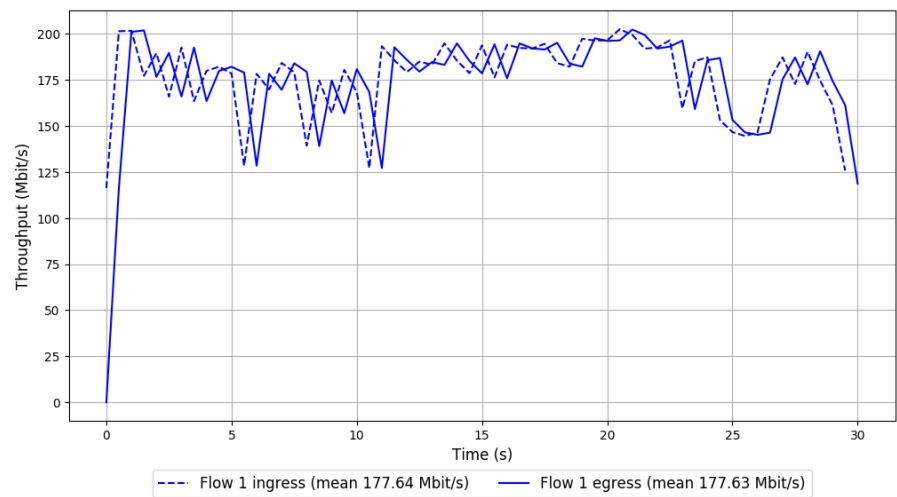
-- Flow 1:

Average throughput: 177.63 Mbit/s

95th percentile per-packet one-way delay: 1.116 ms

Loss rate: 0.07%

Run 10: Report of Indigo — Data Link

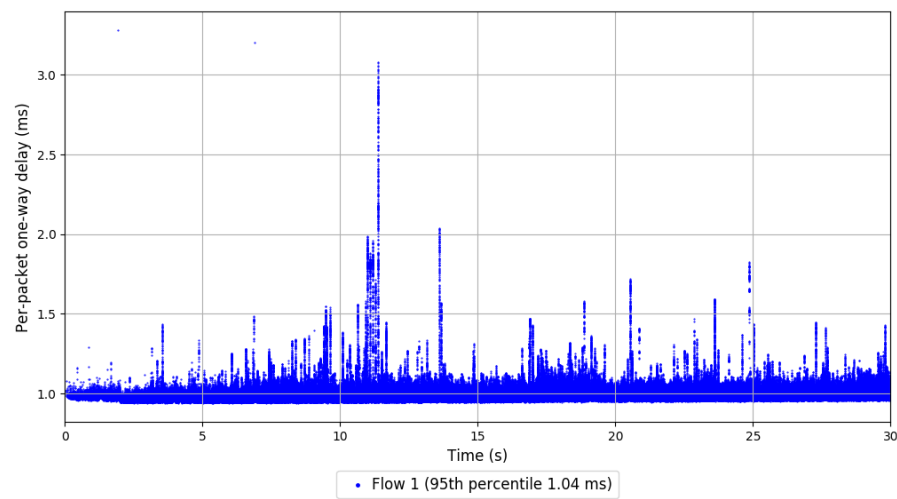
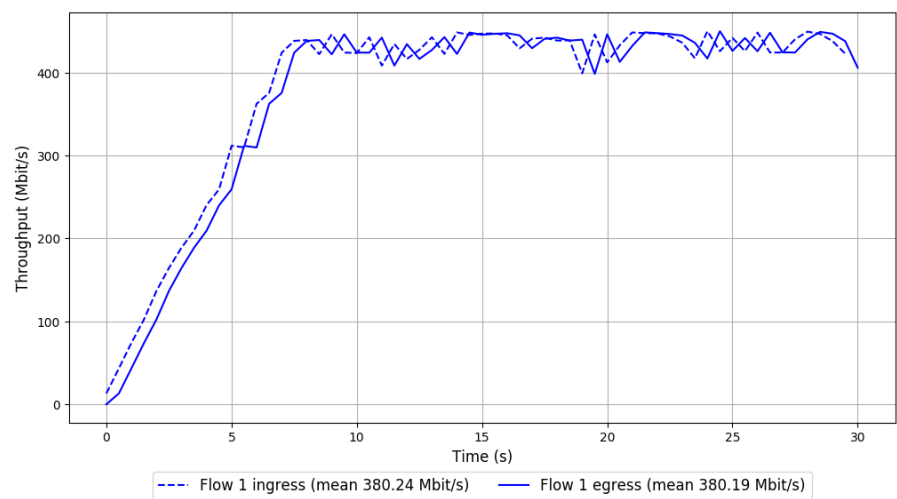


```
Run 1: Statistics of LEDBAT

Start at: 2018-07-24 23:41:43
End at: 2018-07-24 23:42:13
Local clock offset: 3.378 ms
Remote clock offset: 0.461 ms

# Below is generated by plot.py at 2018-07-25 05:13:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 380.19 Mbit/s
95th percentile per-packet one-way delay: 1.038 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 380.19 Mbit/s
95th percentile per-packet one-way delay: 1.038 ms
Loss rate: 0.08%
```

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-07-25 00:07:34

End at: 2018-07-25 00:08:04

Local clock offset: 3.456 ms

Remote clock offset: 1.199 ms

Below is generated by plot.py at 2018-07-25 05:13:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 379.42 Mbit/s

95th percentile per-packet one-way delay: 0.998 ms

Loss rate: 0.08%

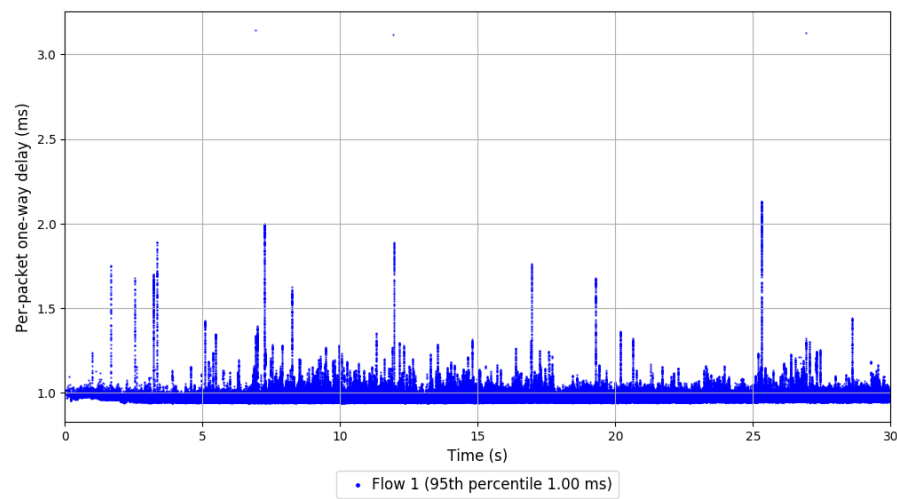
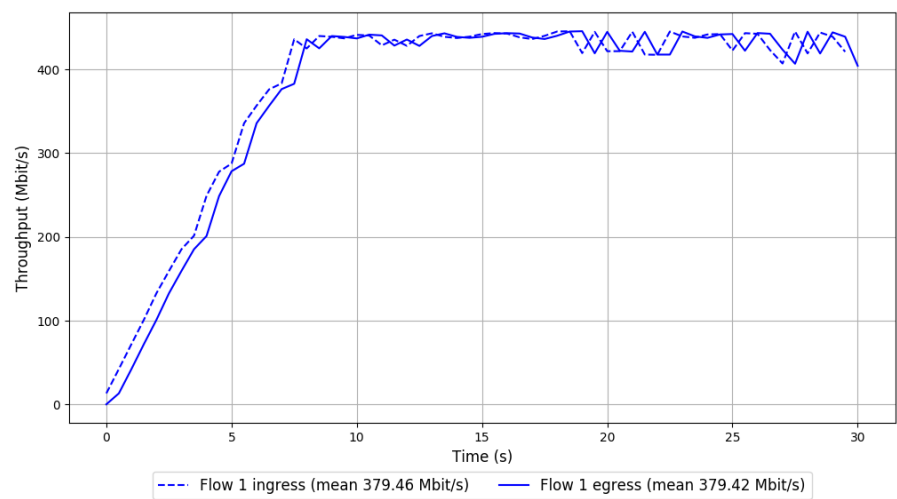
-- Flow 1:

Average throughput: 379.42 Mbit/s

95th percentile per-packet one-way delay: 0.998 ms

Loss rate: 0.08%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-07-25 00:33:21

End at: 2018-07-25 00:33:51

Local clock offset: 3.297 ms

Remote clock offset: 1.768 ms

Below is generated by plot.py at 2018-07-25 05:13:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 377.95 Mbit/s

95th percentile per-packet one-way delay: 1.064 ms

Loss rate: 0.08%

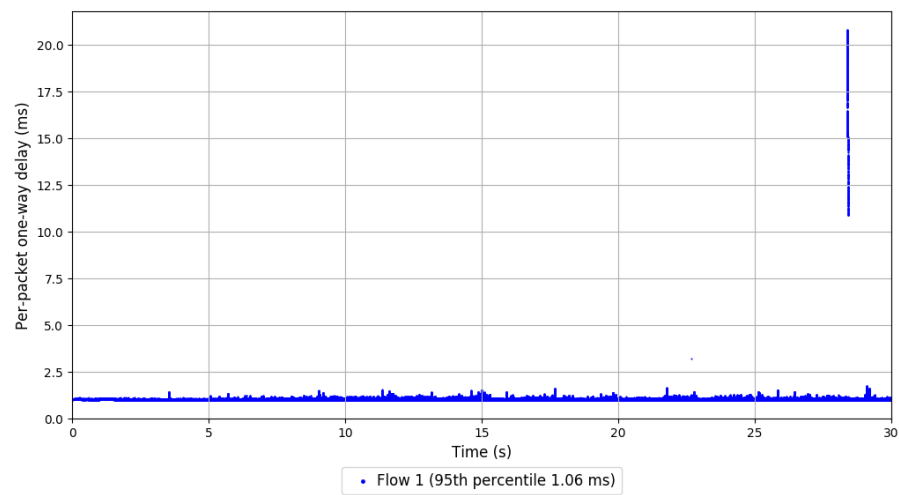
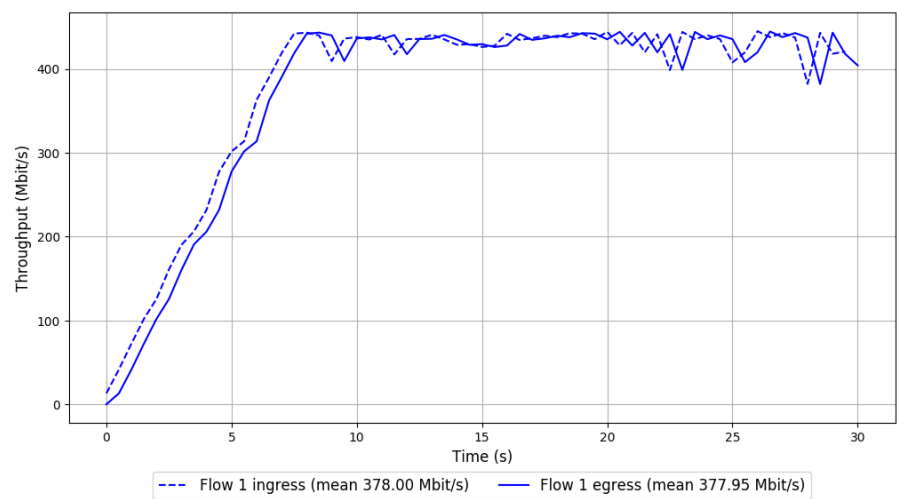
-- Flow 1:

Average throughput: 377.95 Mbit/s

95th percentile per-packet one-way delay: 1.064 ms

Loss rate: 0.08%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-07-25 00:59:09

End at: 2018-07-25 00:59:39

Local clock offset: 3.32 ms

Remote clock offset: 2.086 ms

Below is generated by plot.py at 2018-07-25 05:13:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 381.63 Mbit/s

95th percentile per-packet one-way delay: 1.111 ms

Loss rate: 0.07%

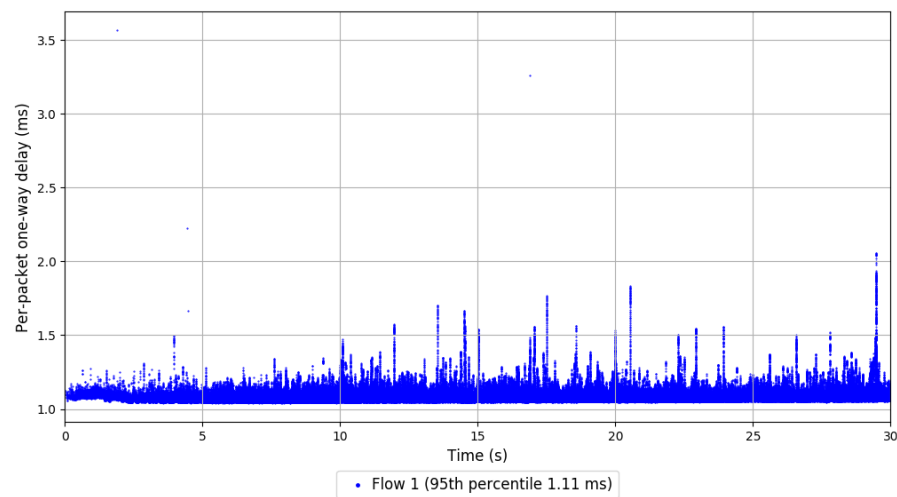
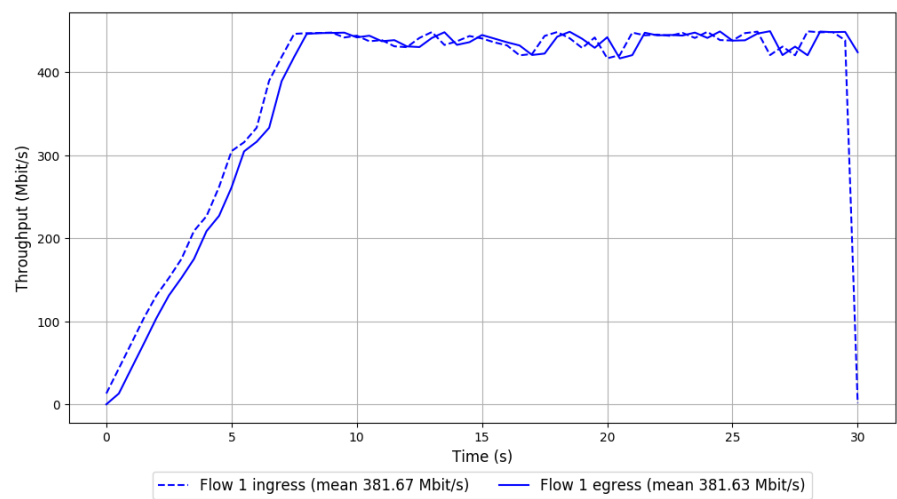
-- Flow 1:

Average throughput: 381.63 Mbit/s

95th percentile per-packet one-way delay: 1.111 ms

Loss rate: 0.07%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-07-25 01:25:10

End at: 2018-07-25 01:25:40

Local clock offset: 3.562 ms

Remote clock offset: 2.42 ms

Below is generated by plot.py at 2018-07-25 05:14:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 376.71 Mbit/s

95th percentile per-packet one-way delay: 1.026 ms

Loss rate: 0.08%

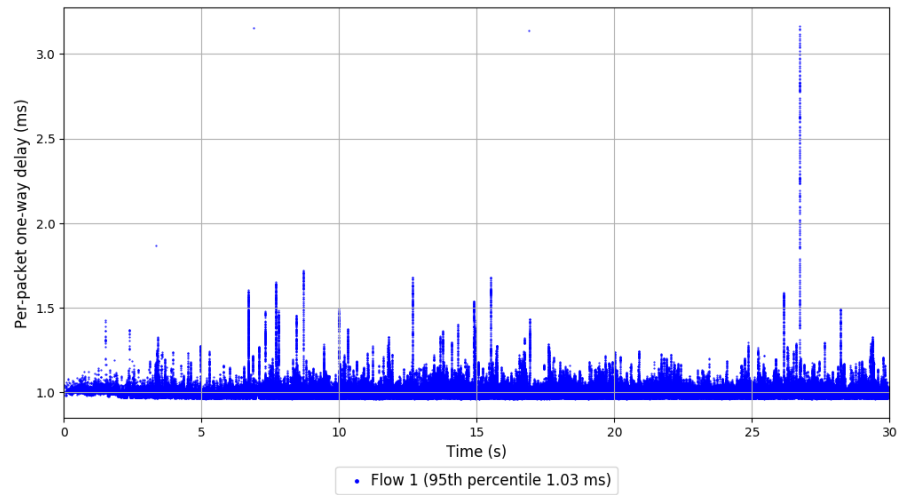
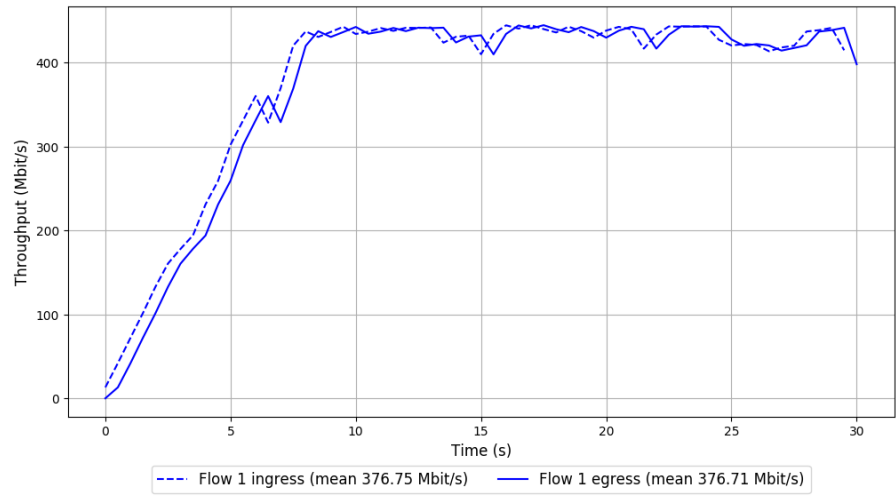
-- Flow 1:

Average throughput: 376.71 Mbit/s

95th percentile per-packet one-way delay: 1.026 ms

Loss rate: 0.08%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-07-25 01:50:55

End at: 2018-07-25 01:51:25

Local clock offset: 3.54 ms

Remote clock offset: 2.219 ms

Below is generated by plot.py at 2018-07-25 05:15:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 391.41 Mbit/s

95th percentile per-packet one-way delay: 1.049 ms

Loss rate: 0.08%

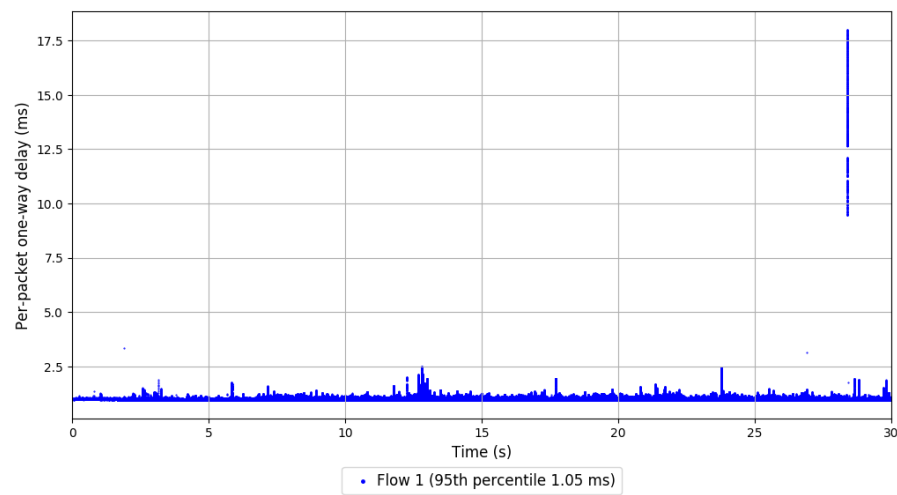
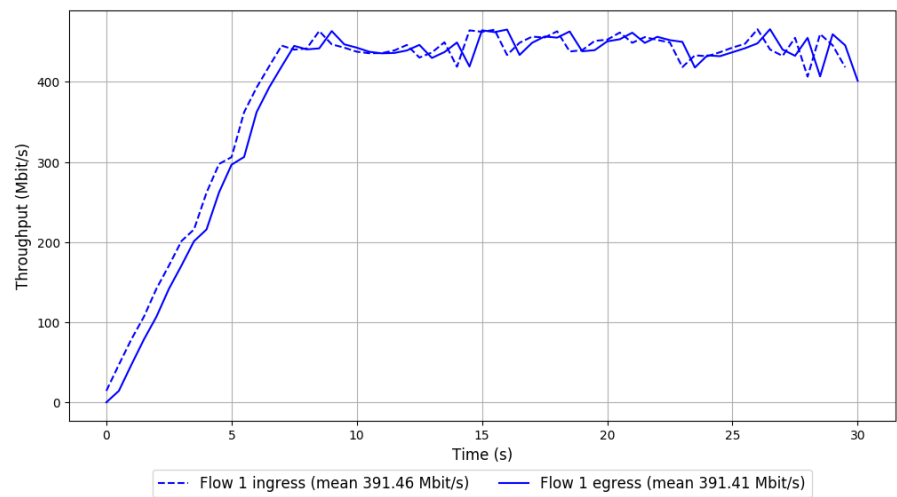
-- Flow 1:

Average throughput: 391.41 Mbit/s

95th percentile per-packet one-way delay: 1.049 ms

Loss rate: 0.08%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-07-25 02:16:51

End at: 2018-07-25 02:17:21

Local clock offset: 3.428 ms

Remote clock offset: 1.762 ms

Below is generated by plot.py at 2018-07-25 05:16:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 393.72 Mbit/s

95th percentile per-packet one-way delay: 1.099 ms

Loss rate: 0.08%

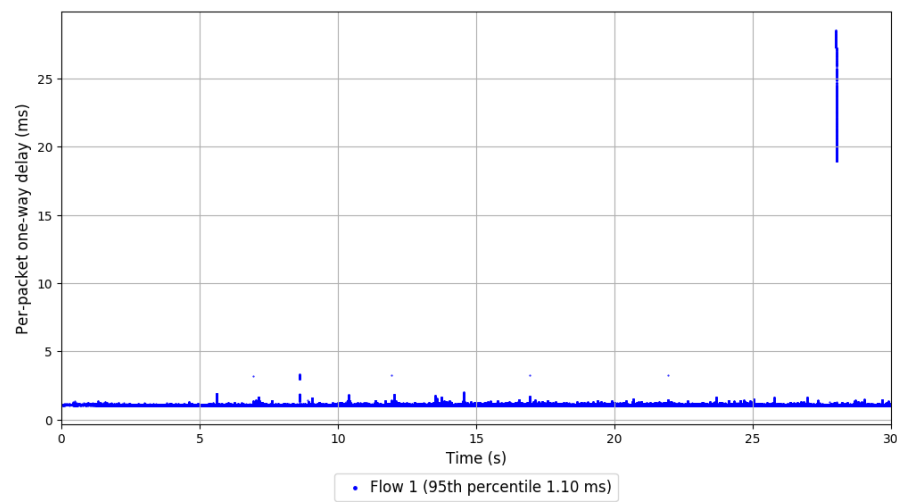
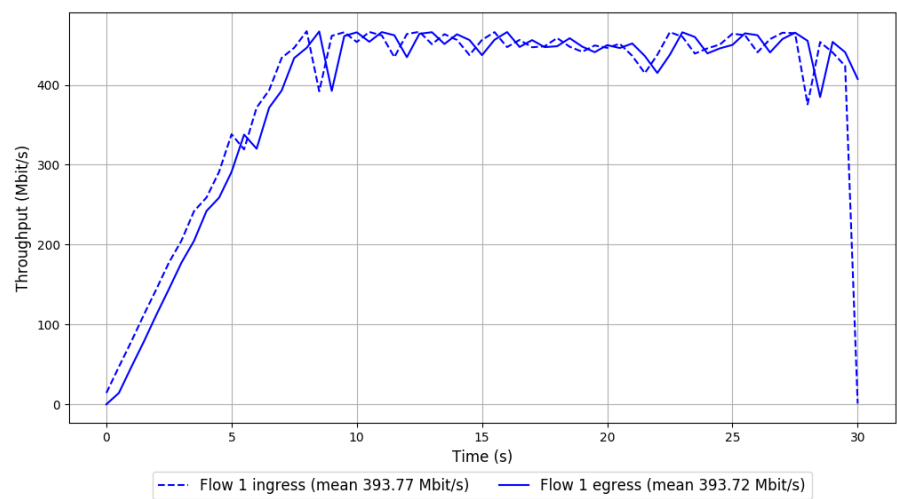
-- Flow 1:

Average throughput: 393.72 Mbit/s

95th percentile per-packet one-way delay: 1.099 ms

Loss rate: 0.08%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-07-25 02:42:44

End at: 2018-07-25 02:43:14

Local clock offset: 3.241 ms

Remote clock offset: 1.387 ms

Below is generated by plot.py at 2018-07-25 05:16:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 382.02 Mbit/s

95th percentile per-packet one-way delay: 1.076 ms

Loss rate: 0.08%

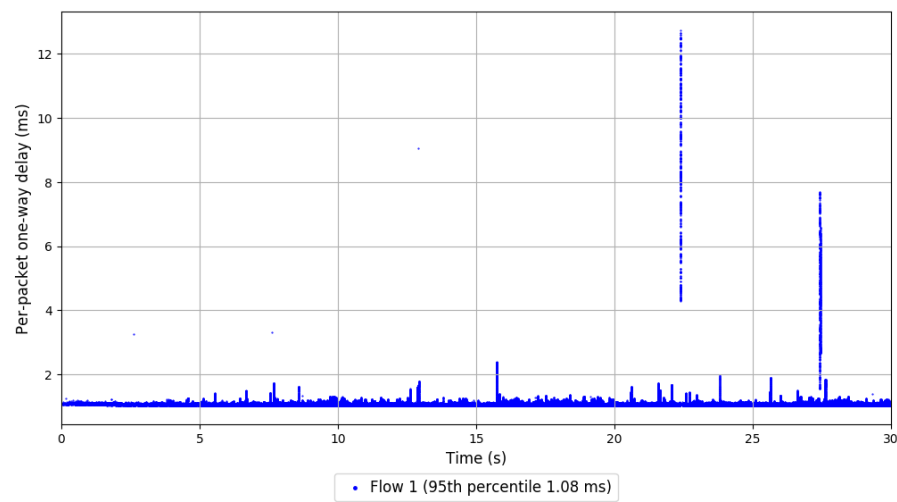
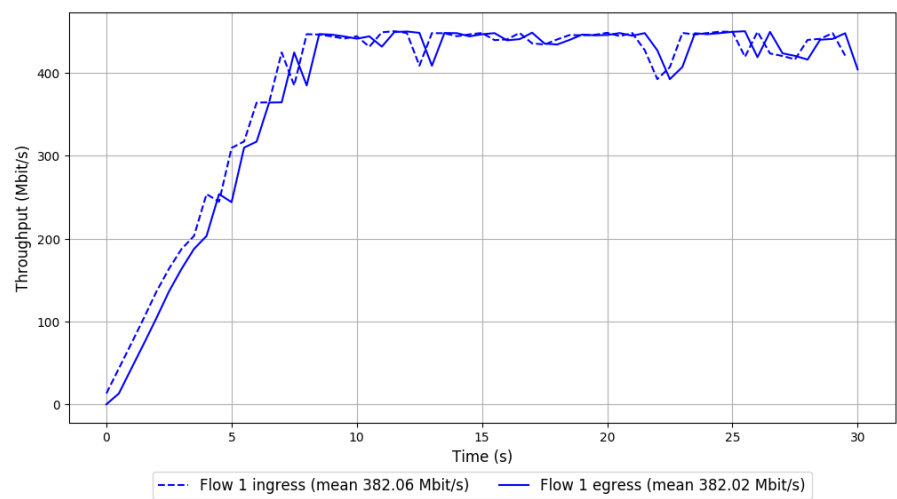
-- Flow 1:

Average throughput: 382.02 Mbit/s

95th percentile per-packet one-way delay: 1.076 ms

Loss rate: 0.08%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-07-25 03:08:34

End at: 2018-07-25 03:09:04

Local clock offset: 3.33 ms

Remote clock offset: 1.014 ms

Below is generated by plot.py at 2018-07-25 05:16:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 393.45 Mbit/s

95th percentile per-packet one-way delay: 1.080 ms

Loss rate: 0.07%

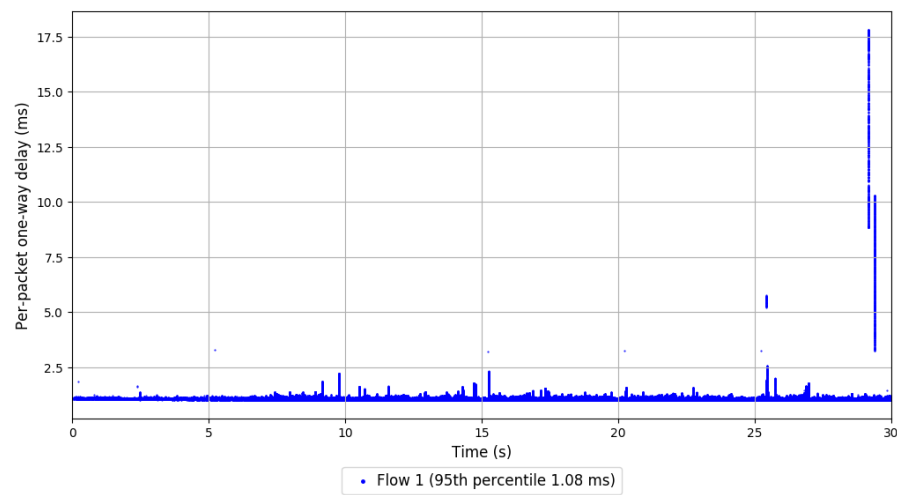
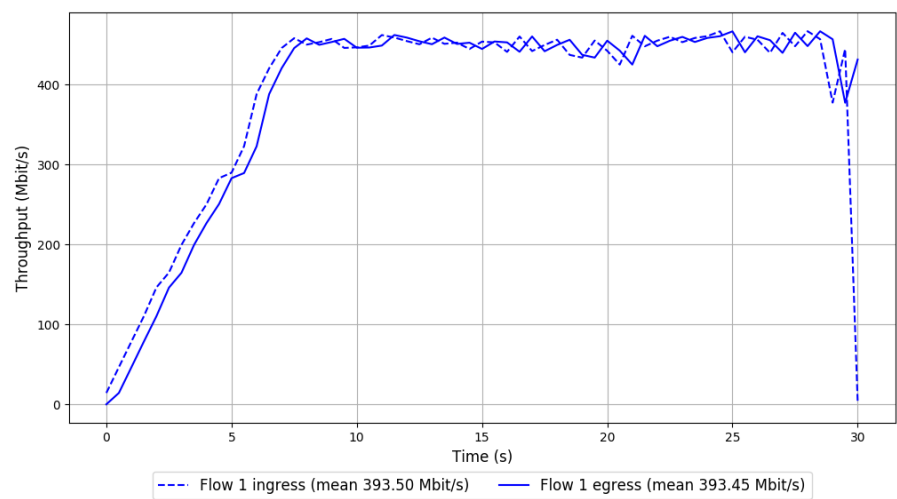
-- Flow 1:

Average throughput: 393.45 Mbit/s

95th percentile per-packet one-way delay: 1.080 ms

Loss rate: 0.07%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-07-25 03:34:26

End at: 2018-07-25 03:34:56

Local clock offset: 3.516 ms

Remote clock offset: 1.073 ms

Below is generated by plot.py at 2018-07-25 05:16:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 380.68 Mbit/s

95th percentile per-packet one-way delay: 1.091 ms

Loss rate: 0.08%

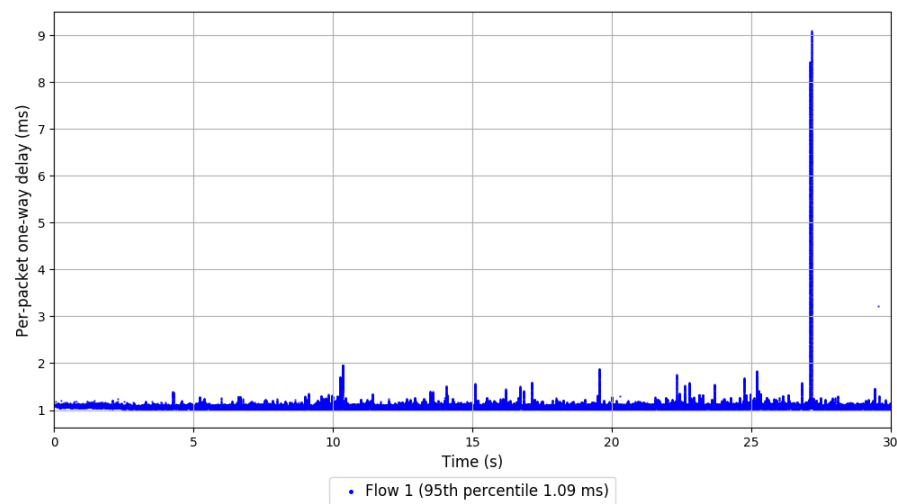
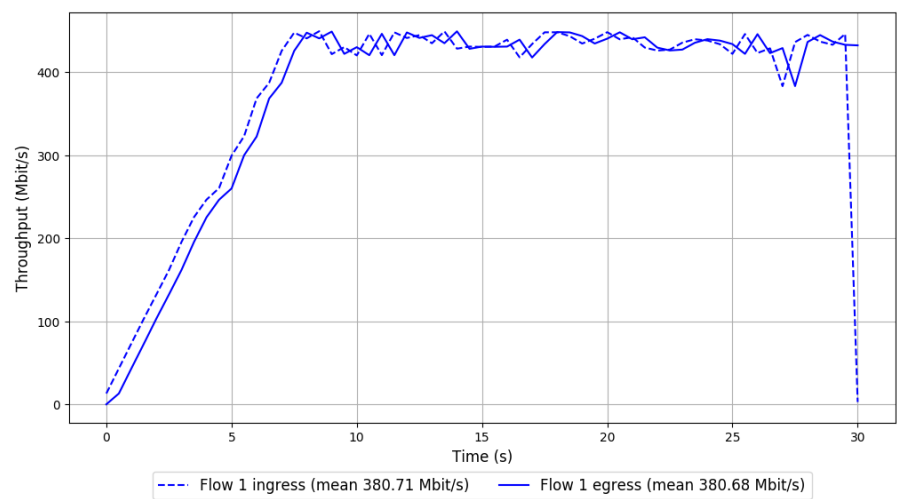
-- Flow 1:

Average throughput: 380.68 Mbit/s

95th percentile per-packet one-way delay: 1.091 ms

Loss rate: 0.08%

Run 10: Report of LEDBAT — Data Link

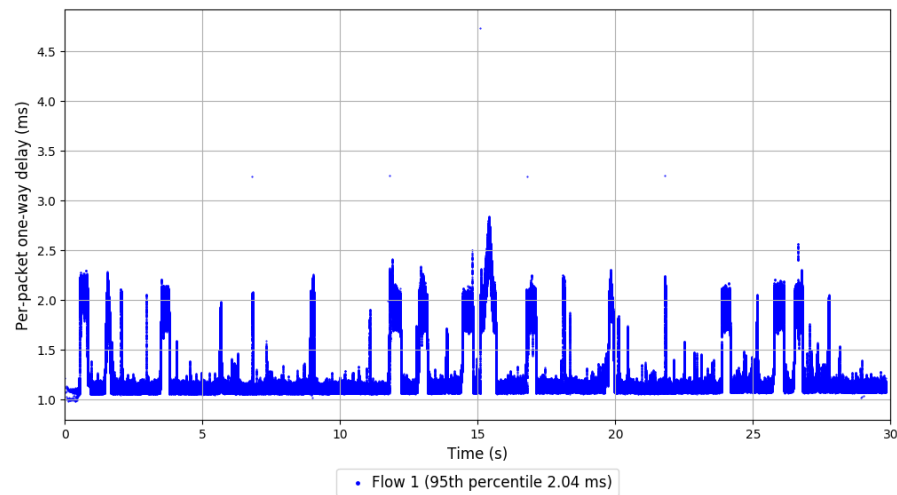
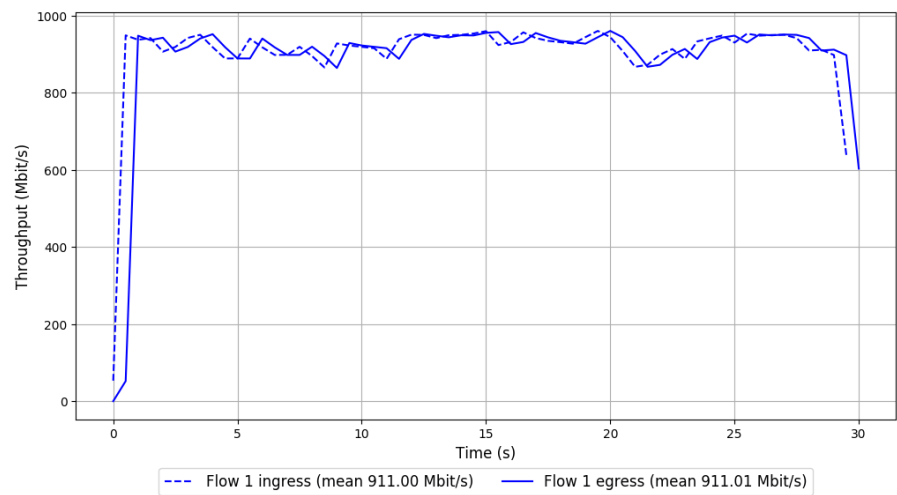


```
Run 1: Statistics of PCC-Allegro

Start at: 2018-07-24 23:40:04
End at: 2018-07-24 23:40:34
Local clock offset: 3.492 ms
Remote clock offset: 0.422 ms

# Below is generated by plot.py at 2018-07-25 05:22:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 911.01 Mbit/s
95th percentile per-packet one-way delay: 2.035 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 911.01 Mbit/s
95th percentile per-packet one-way delay: 2.035 ms
Loss rate: 0.07%
```

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-07-25 00:05:55

End at: 2018-07-25 00:06:25

Local clock offset: 3.346 ms

Remote clock offset: 1.153 ms

Below is generated by plot.py at 2018-07-25 05:23:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 920.52 Mbit/s

95th percentile per-packet one-way delay: 1.845 ms

Loss rate: 0.07%

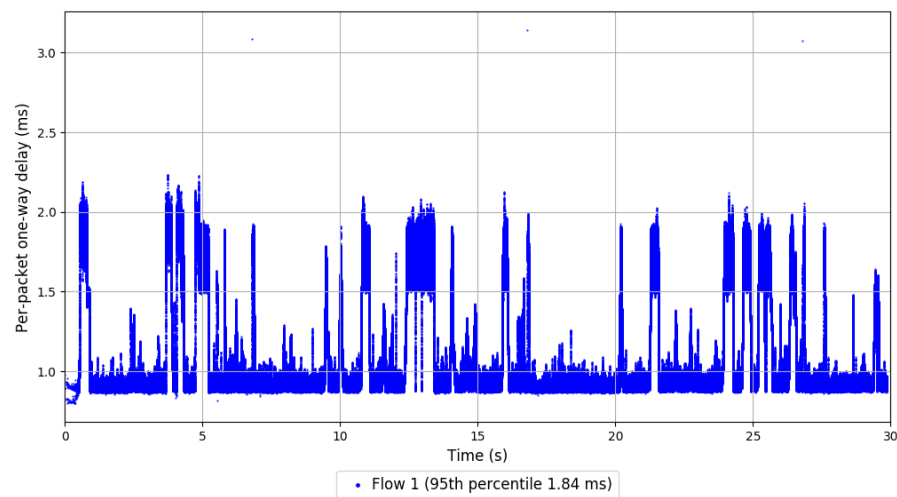
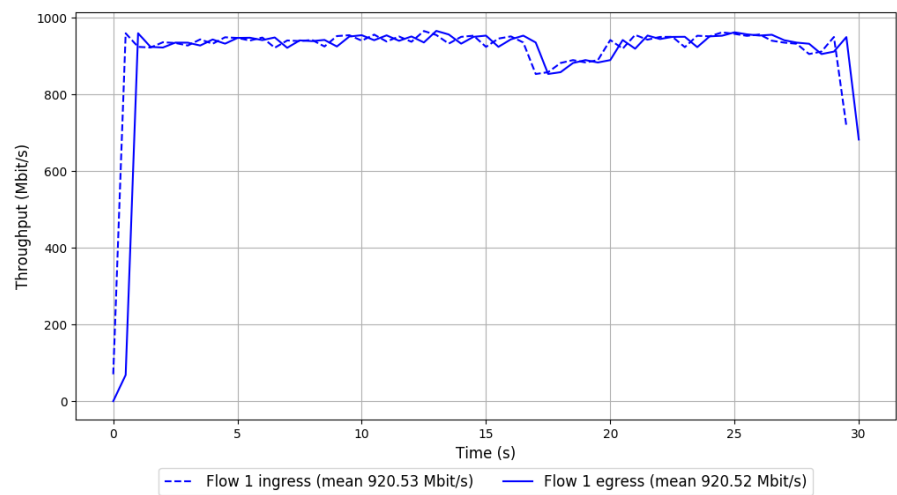
-- Flow 1:

Average throughput: 920.52 Mbit/s

95th percentile per-packet one-way delay: 1.845 ms

Loss rate: 0.07%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-07-25 00:31:43

End at: 2018-07-25 00:32:13

Local clock offset: 3.256 ms

Remote clock offset: 1.755 ms

Below is generated by plot.py at 2018-07-25 05:25:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 920.99 Mbit/s

95th percentile per-packet one-way delay: 2.009 ms

Loss rate: 0.07%

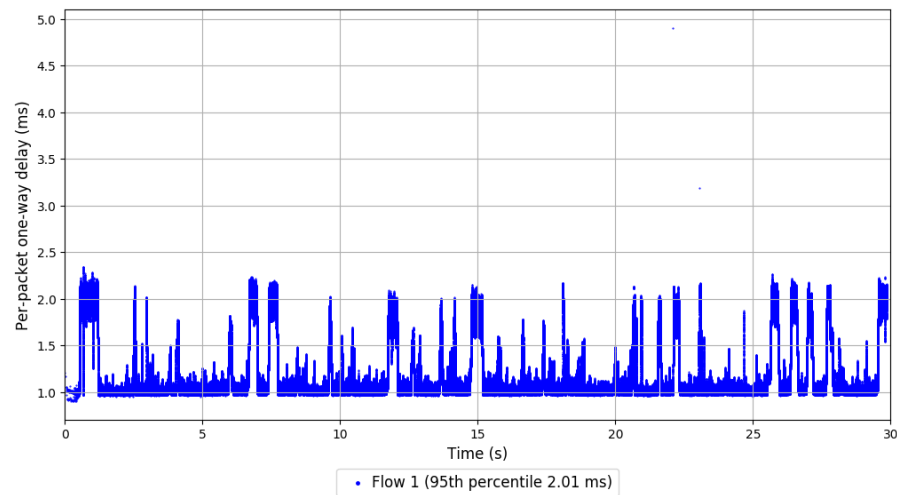
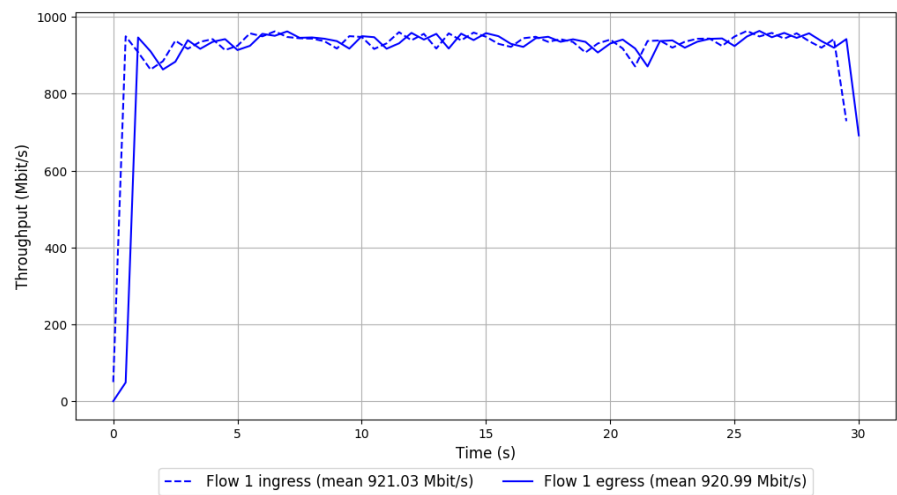
-- Flow 1:

Average throughput: 920.99 Mbit/s

95th percentile per-packet one-way delay: 2.009 ms

Loss rate: 0.07%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-07-25 00:57:30

End at: 2018-07-25 00:58:00

Local clock offset: 3.346 ms

Remote clock offset: 2.156 ms

Below is generated by plot.py at 2018-07-25 05:25:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 910.38 Mbit/s

95th percentile per-packet one-way delay: 1.947 ms

Loss rate: 0.07%

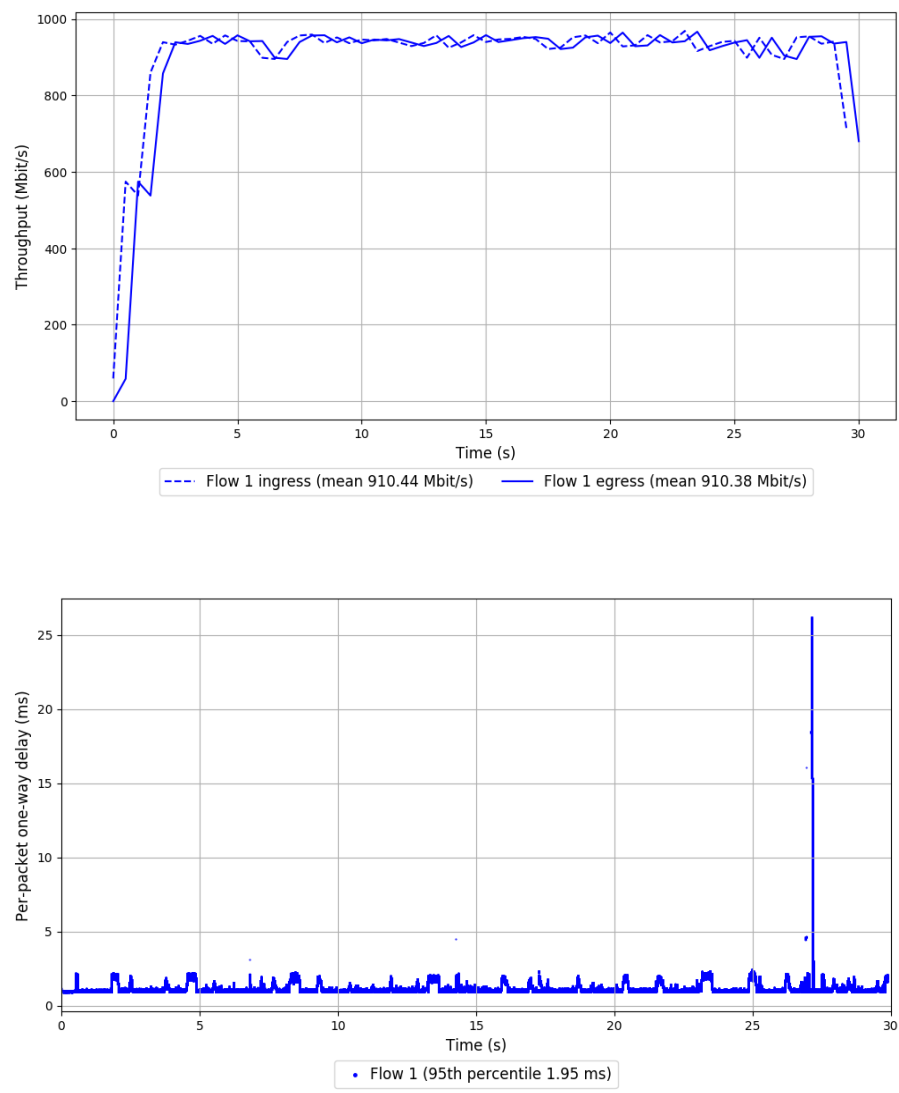
-- Flow 1:

Average throughput: 910.38 Mbit/s

95th percentile per-packet one-way delay: 1.947 ms

Loss rate: 0.07%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-07-25 01:23:31

End at: 2018-07-25 01:24:01

Local clock offset: 3.492 ms

Remote clock offset: 2.336 ms

Below is generated by plot.py at 2018-07-25 05:26:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 919.00 Mbit/s

95th percentile per-packet one-way delay: 1.947 ms

Loss rate: 0.07%

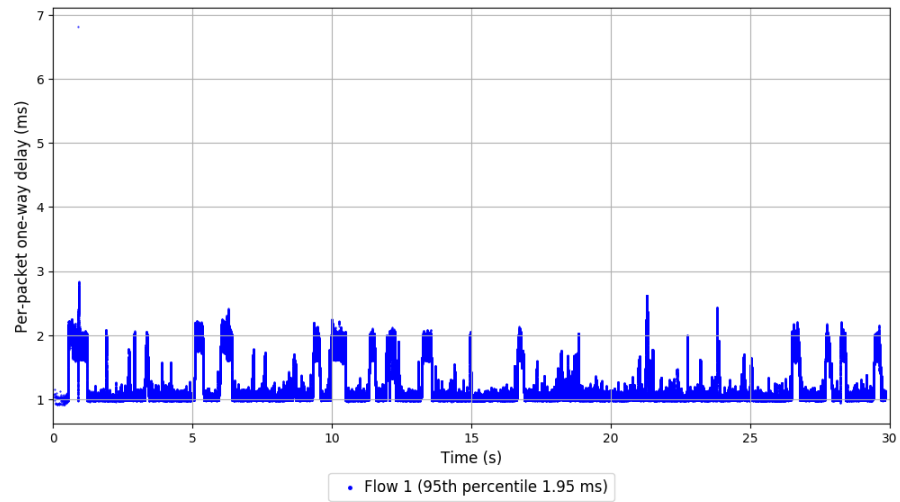
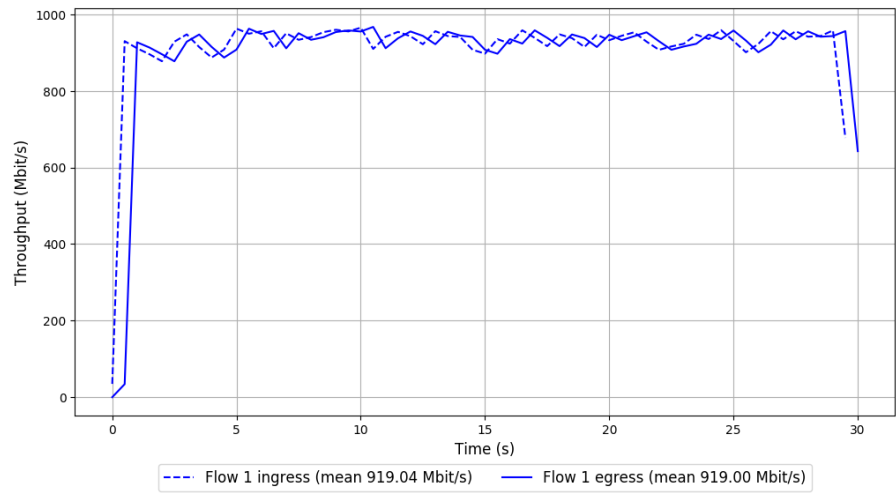
-- Flow 1:

Average throughput: 919.00 Mbit/s

95th percentile per-packet one-way delay: 1.947 ms

Loss rate: 0.07%

Run 5: Report of PCC-Allegro — Data Link



Run 6: Statistics of PCC-Allegro

Start at: 2018-07-25 01:49:17

End at: 2018-07-25 01:49:47

Local clock offset: 3.662 ms

Remote clock offset: 2.306 ms

Below is generated by plot.py at 2018-07-25 05:26:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 913.51 Mbit/s

95th percentile per-packet one-way delay: 2.058 ms

Loss rate: 0.07%

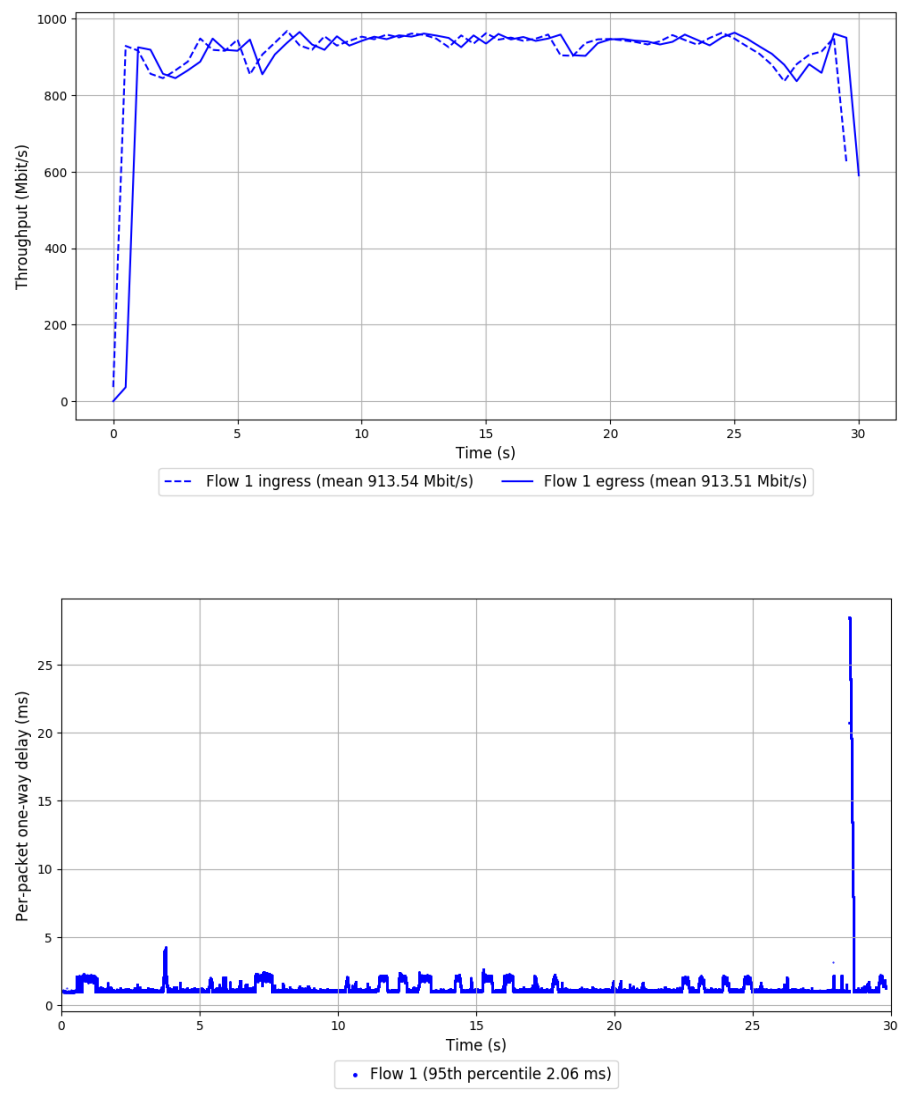
-- Flow 1:

Average throughput: 913.51 Mbit/s

95th percentile per-packet one-way delay: 2.058 ms

Loss rate: 0.07%

Run 6: Report of PCC-Allegro — Data Link



Run 7: Statistics of PCC-Allegro

Start at: 2018-07-25 02:15:12

End at: 2018-07-25 02:15:42

Local clock offset: 3.359 ms

Remote clock offset: 1.824 ms

Below is generated by plot.py at 2018-07-25 05:26:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 918.02 Mbit/s

95th percentile per-packet one-way delay: 1.898 ms

Loss rate: 0.07%

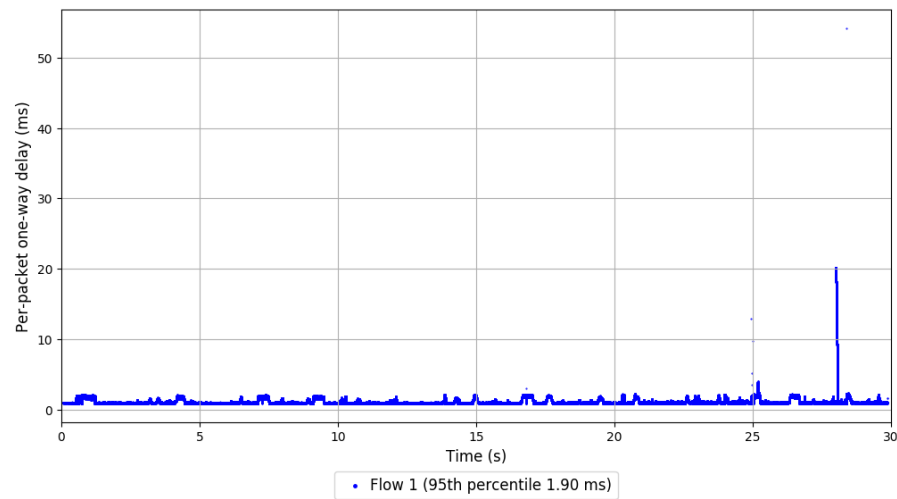
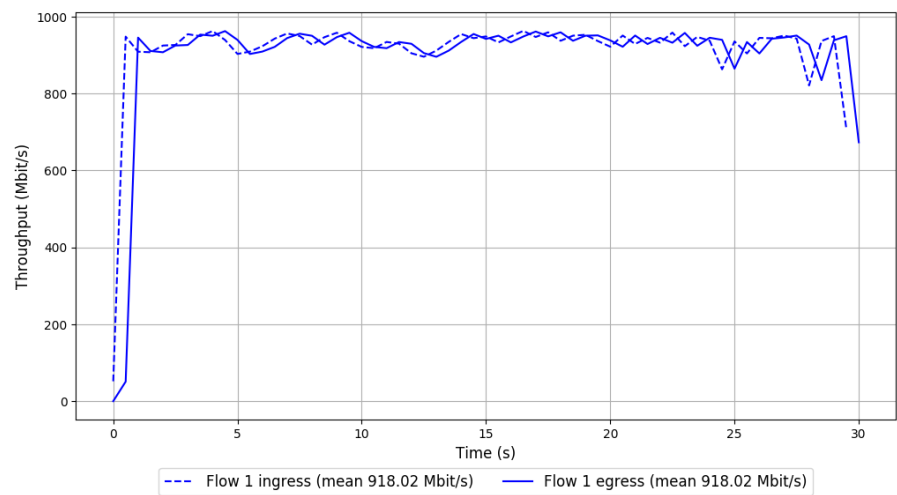
-- Flow 1:

Average throughput: 918.02 Mbit/s

95th percentile per-packet one-way delay: 1.898 ms

Loss rate: 0.07%

Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-07-25 02:41:05

End at: 2018-07-25 02:41:35

Local clock offset: 3.25 ms

Remote clock offset: 1.382 ms

Below is generated by plot.py at 2018-07-25 05:26:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 915.24 Mbit/s

95th percentile per-packet one-way delay: 2.041 ms

Loss rate: 0.07%

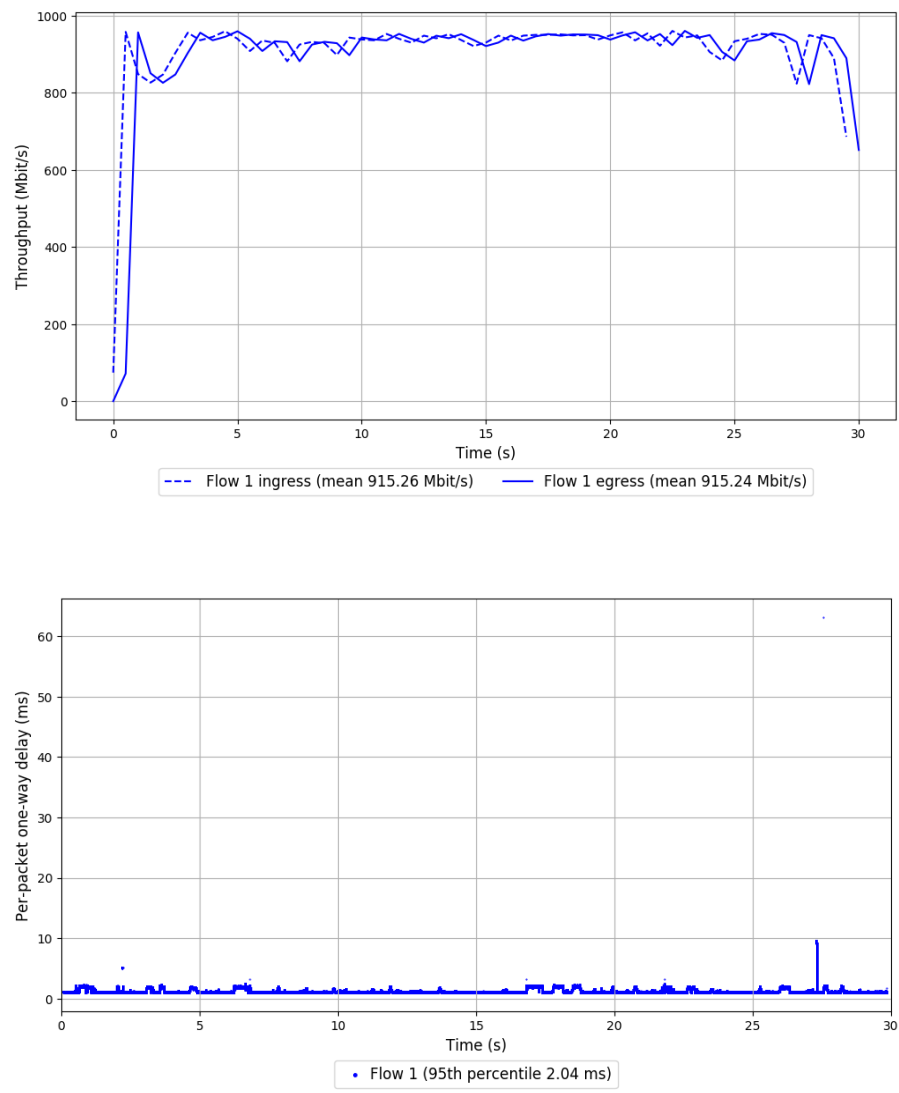
-- Flow 1:

Average throughput: 915.24 Mbit/s

95th percentile per-packet one-way delay: 2.041 ms

Loss rate: 0.07%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-07-25 03:06:56

End at: 2018-07-25 03:07:26

Local clock offset: 3.279 ms

Remote clock offset: 1.053 ms

Below is generated by plot.py at 2018-07-25 05:33:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 916.90 Mbit/s

95th percentile per-packet one-way delay: 1.943 ms

Loss rate: 0.06%

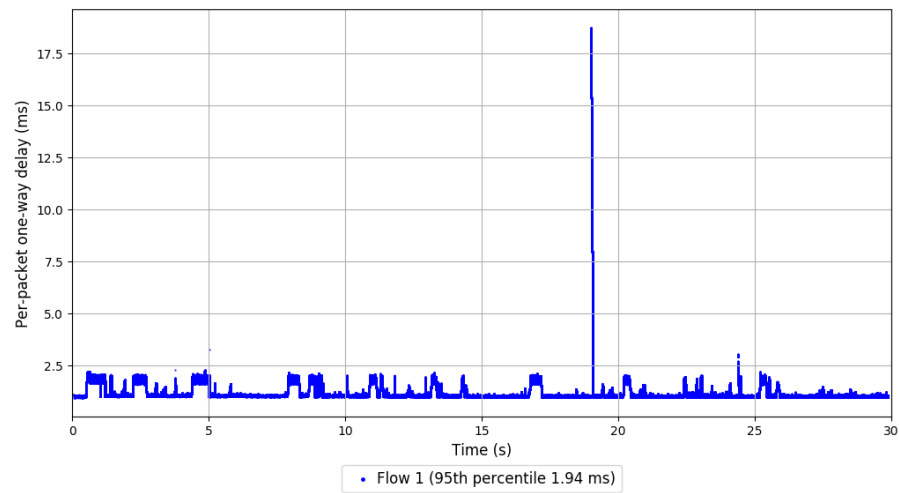
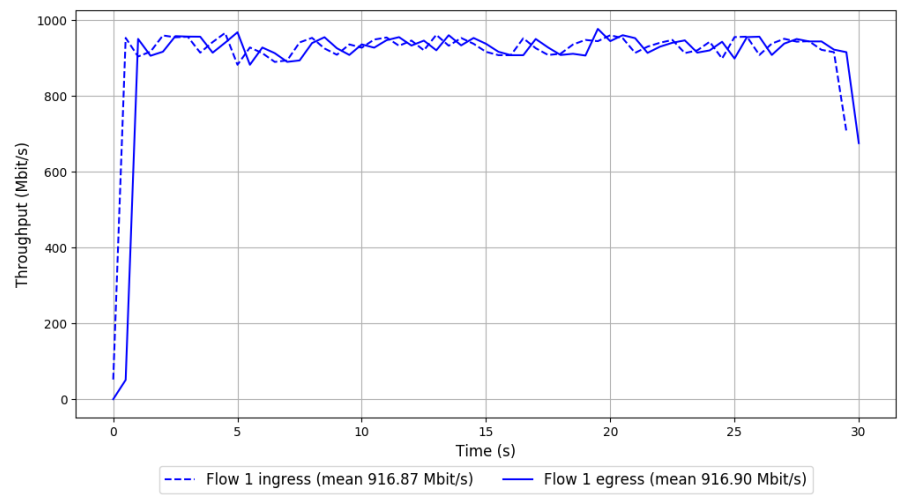
-- Flow 1:

Average throughput: 916.90 Mbit/s

95th percentile per-packet one-way delay: 1.943 ms

Loss rate: 0.06%

Run 9: Report of PCC-Allegro — Data Link



Run 10: Statistics of PCC-Allegro

Start at: 2018-07-25 03:32:47

End at: 2018-07-25 03:33:17

Local clock offset: 3.424 ms

Remote clock offset: 1.07 ms

Below is generated by plot.py at 2018-07-25 05:34:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 919.01 Mbit/s

95th percentile per-packet one-way delay: 1.927 ms

Loss rate: 0.07%

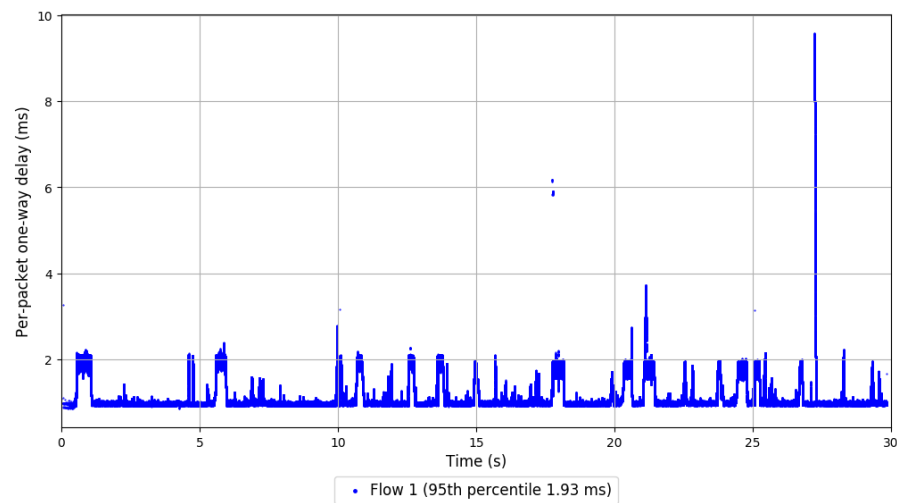
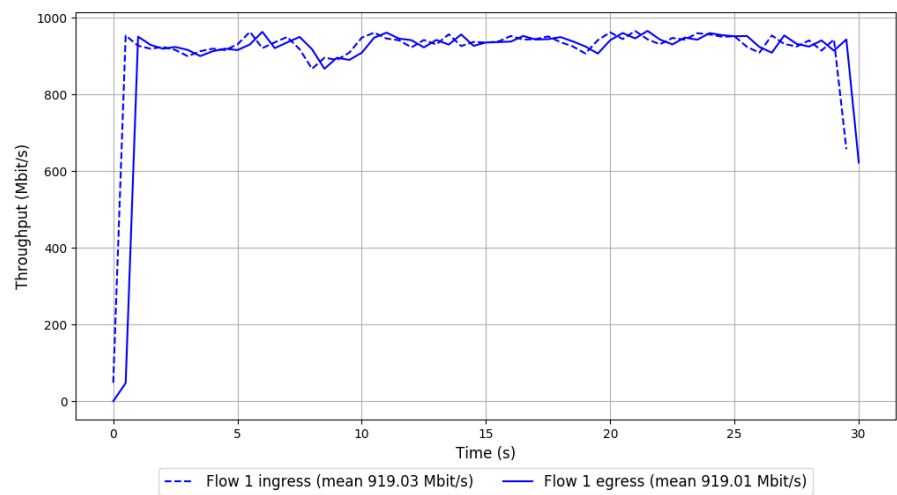
-- Flow 1:

Average throughput: 919.01 Mbit/s

95th percentile per-packet one-way delay: 1.927 ms

Loss rate: 0.07%

Run 10: Report of PCC-Allegro — Data Link

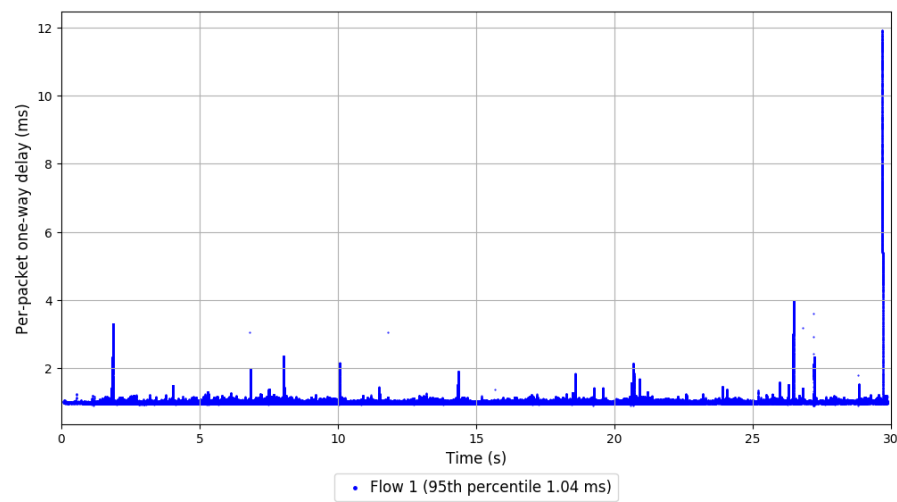
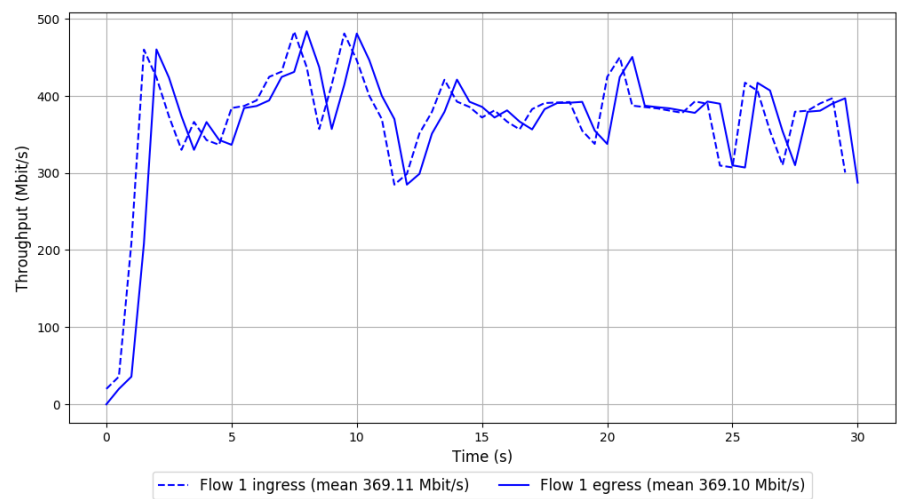


```
Run 1: Statistics of PCC-Expr

Start at: 2018-07-24 23:58:40
End at: 2018-07-24 23:59:10
Local clock offset: 3.357 ms
Remote clock offset: 1.016 ms

# Below is generated by plot.py at 2018-07-25 05:34:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 369.10 Mbit/s
95th percentile per-packet one-way delay: 1.045 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 369.10 Mbit/s
95th percentile per-packet one-way delay: 1.045 ms
Loss rate: 0.06%
```

Run 1: Report of PCC-Expr — Data Link



Run 2: Statistics of PCC-Expr

Start at: 2018-07-25 00:24:28

End at: 2018-07-25 00:24:58

Local clock offset: 3.404 ms

Remote clock offset: 1.609 ms

Below is generated by plot.py at 2018-07-25 05:34:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 388.68 Mbit/s

95th percentile per-packet one-way delay: 1.068 ms

Loss rate: 0.07%

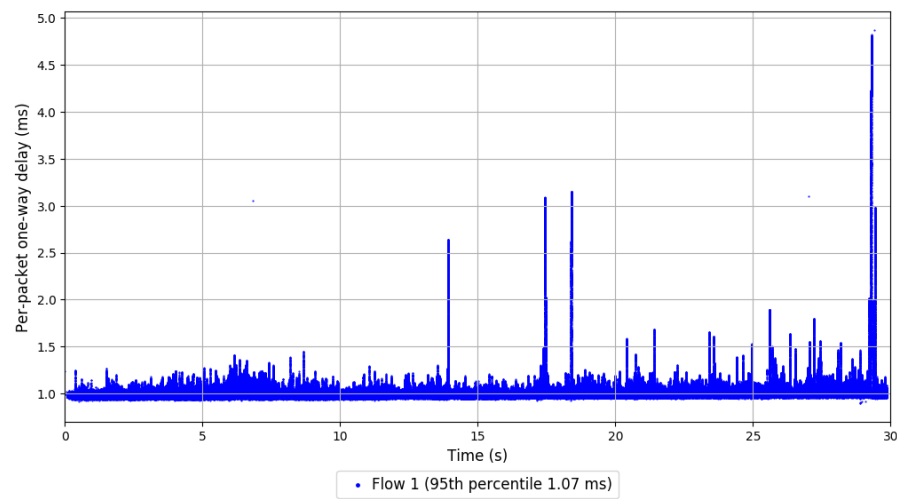
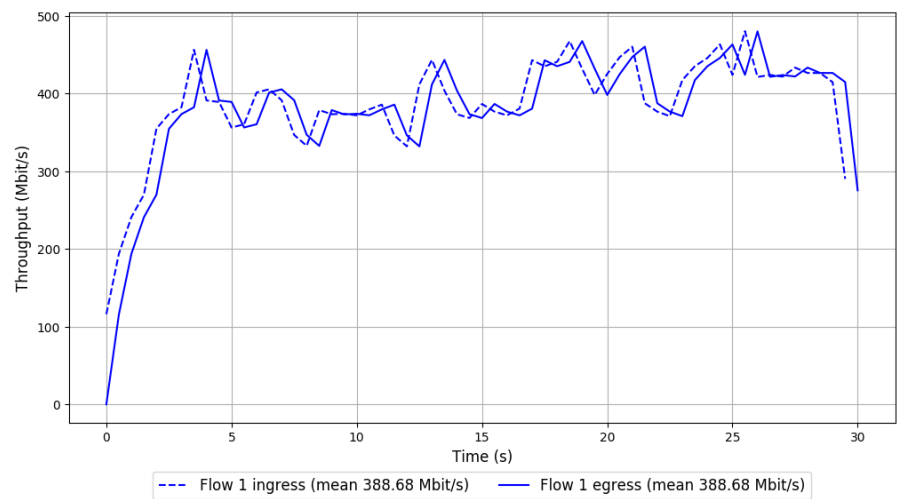
-- Flow 1:

Average throughput: 388.68 Mbit/s

95th percentile per-packet one-way delay: 1.068 ms

Loss rate: 0.07%

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2018-07-25 00:50:15

End at: 2018-07-25 00:50:45

Local clock offset: 3.402 ms

Remote clock offset: 1.972 ms

Below is generated by plot.py at 2018-07-25 05:34:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 347.93 Mbit/s

95th percentile per-packet one-way delay: 1.131 ms

Loss rate: 0.06%

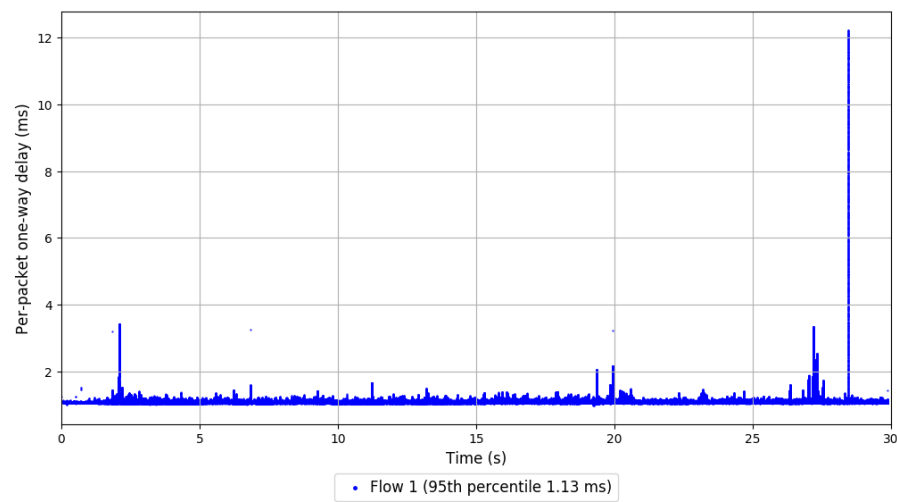
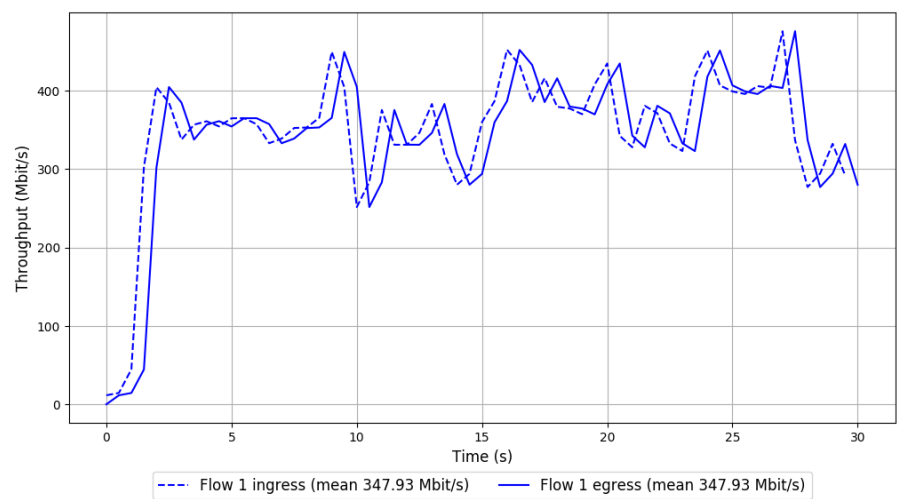
-- Flow 1:

Average throughput: 347.93 Mbit/s

95th percentile per-packet one-way delay: 1.131 ms

Loss rate: 0.06%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2018-07-25 01:16:18

End at: 2018-07-25 01:16:48

Local clock offset: 3.485 ms

Remote clock offset: 2.304 ms

Below is generated by plot.py at 2018-07-25 05:34:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 364.16 Mbit/s

95th percentile per-packet one-way delay: 1.031 ms

Loss rate: 0.06%

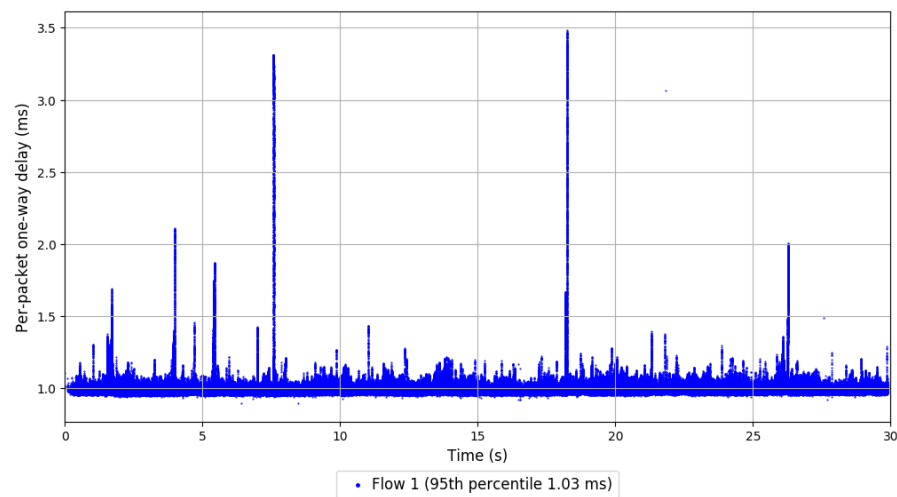
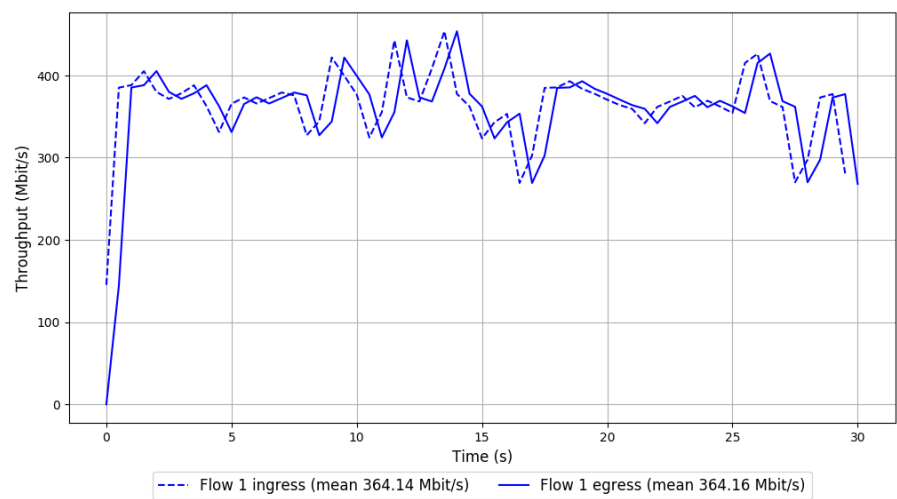
-- Flow 1:

Average throughput: 364.16 Mbit/s

95th percentile per-packet one-way delay: 1.031 ms

Loss rate: 0.06%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2018-07-25 01:42:05

End at: 2018-07-25 01:42:35

Local clock offset: 3.707 ms

Remote clock offset: 2.254 ms

Below is generated by plot.py at 2018-07-25 05:34:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 364.35 Mbit/s

95th percentile per-packet one-way delay: 1.094 ms

Loss rate: 0.08%

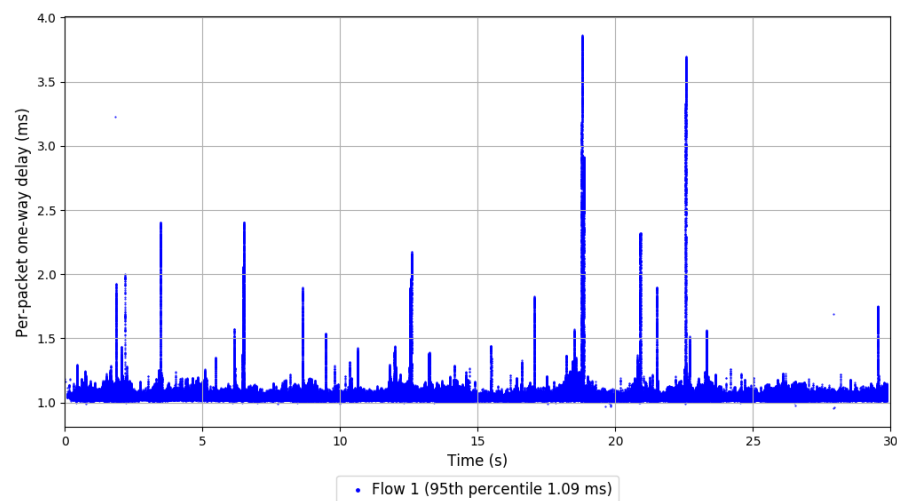
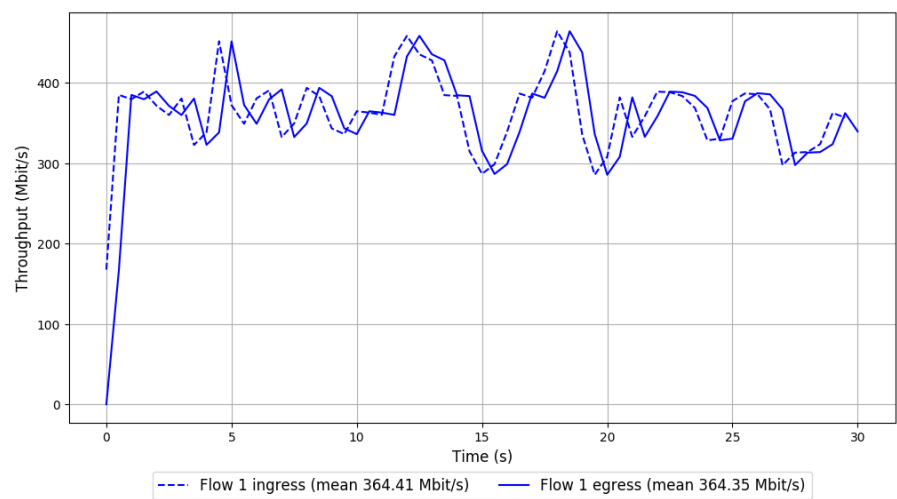
-- Flow 1:

Average throughput: 364.35 Mbit/s

95th percentile per-packet one-way delay: 1.094 ms

Loss rate: 0.08%

Run 5: Report of PCC-Expr — Data Link



Run 6: Statistics of PCC-Expr

Start at: 2018-07-25 02:07:58

End at: 2018-07-25 02:08:28

Local clock offset: 3.416 ms

Remote clock offset: 2.036 ms

Below is generated by plot.py at 2018-07-25 05:34:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 378.68 Mbit/s

95th percentile per-packet one-way delay: 0.929 ms

Loss rate: 0.06%

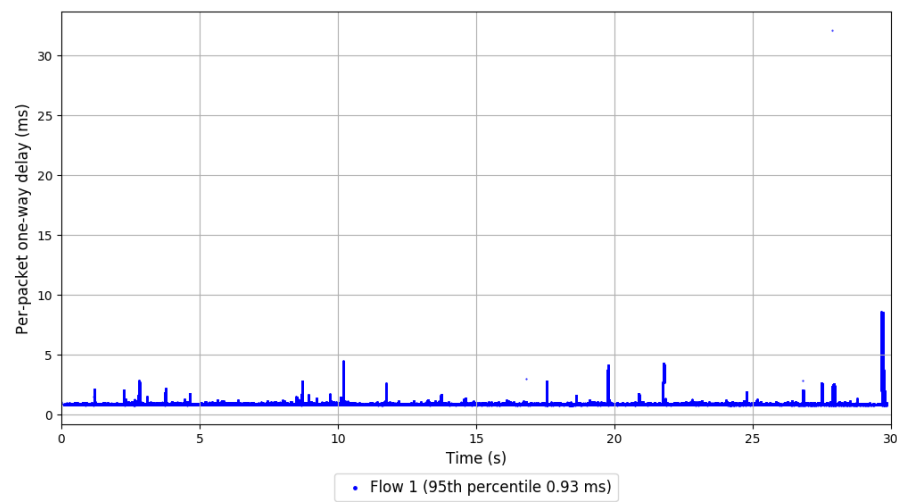
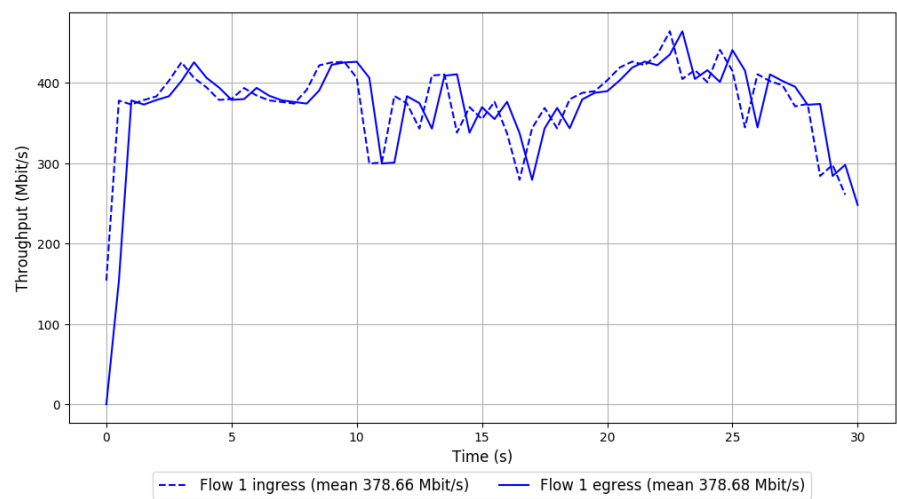
-- Flow 1:

Average throughput: 378.68 Mbit/s

95th percentile per-packet one-way delay: 0.929 ms

Loss rate: 0.06%

Run 6: Report of PCC-Expr — Data Link



Run 7: Statistics of PCC-Expr

Start at: 2018-07-25 02:33:54

End at: 2018-07-25 02:34:24

Local clock offset: 3.171 ms

Remote clock offset: 1.488 ms

Below is generated by plot.py at 2018-07-25 05:40:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 365.52 Mbit/s

95th percentile per-packet one-way delay: 1.069 ms

Loss rate: 0.06%

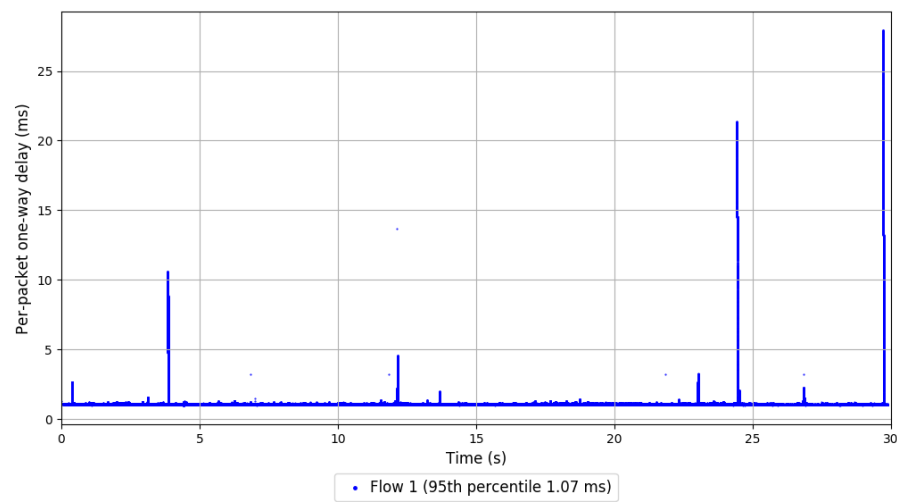
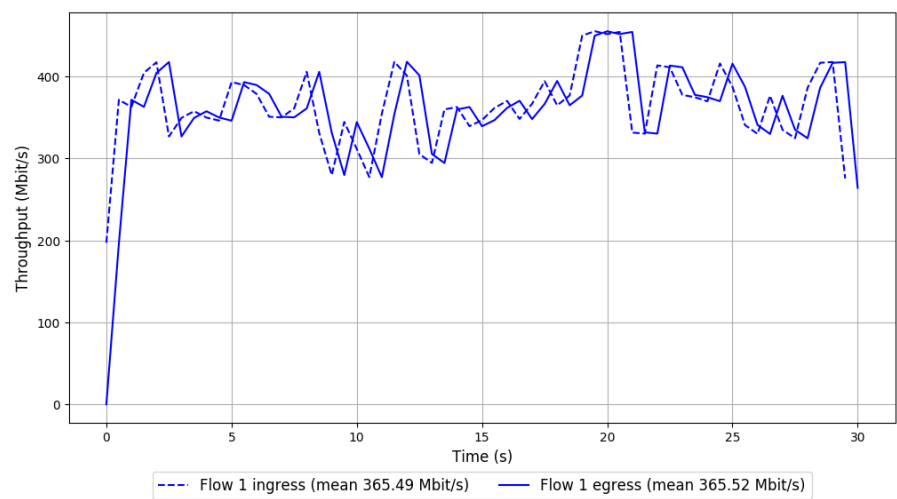
-- Flow 1:

Average throughput: 365.52 Mbit/s

95th percentile per-packet one-way delay: 1.069 ms

Loss rate: 0.06%

Run 7: Report of PCC-Expr — Data Link



Run 8: Statistics of PCC-Expr

Start at: 2018-07-25 02:59:46

End at: 2018-07-25 03:00:16

Local clock offset: 2.849 ms

Remote clock offset: 1.148 ms

Below is generated by plot.py at 2018-07-25 05:41:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 367.11 Mbit/s

95th percentile per-packet one-way delay: 0.994 ms

Loss rate: 0.06%

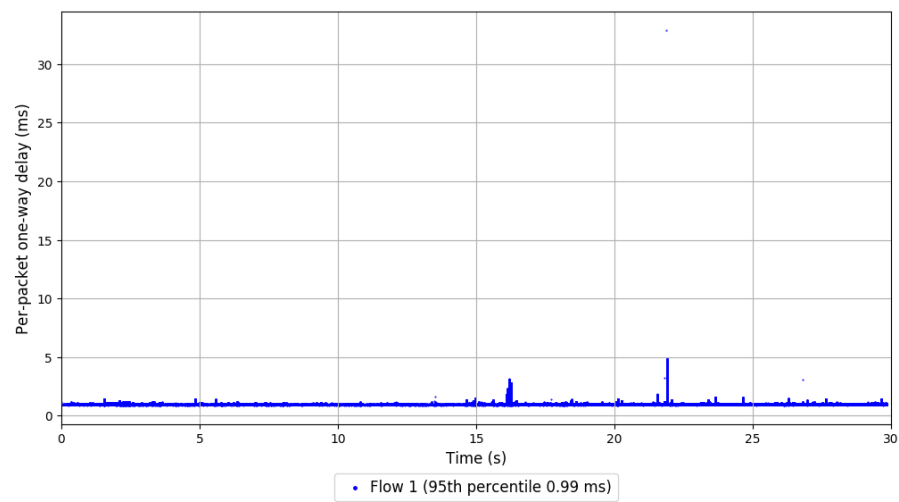
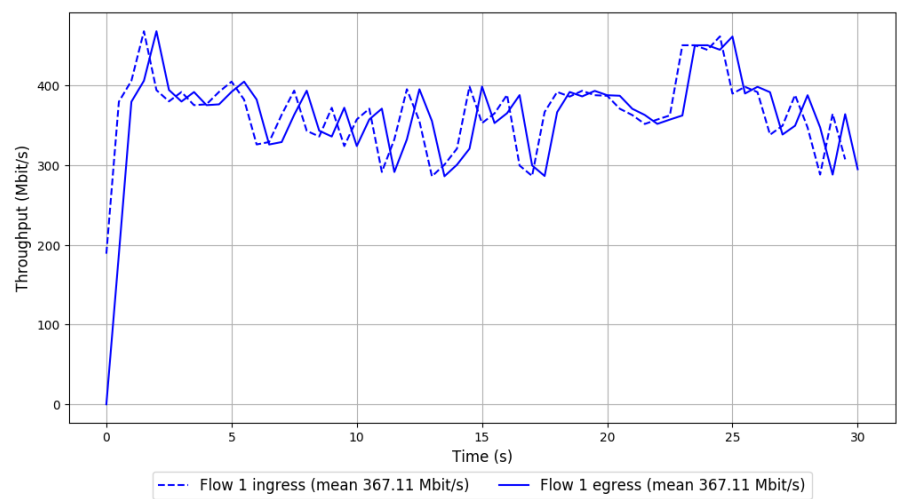
-- Flow 1:

Average throughput: 367.11 Mbit/s

95th percentile per-packet one-way delay: 0.994 ms

Loss rate: 0.06%

Run 8: Report of PCC-Expr — Data Link



Run 9: Statistics of PCC-Expr

Start at: 2018-07-25 03:25:30

End at: 2018-07-25 03:26:00

Local clock offset: 3.545 ms

Remote clock offset: 1.05 ms

Below is generated by plot.py at 2018-07-25 05:41:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 375.71 Mbit/s

95th percentile per-packet one-way delay: 1.084 ms

Loss rate: 0.00%

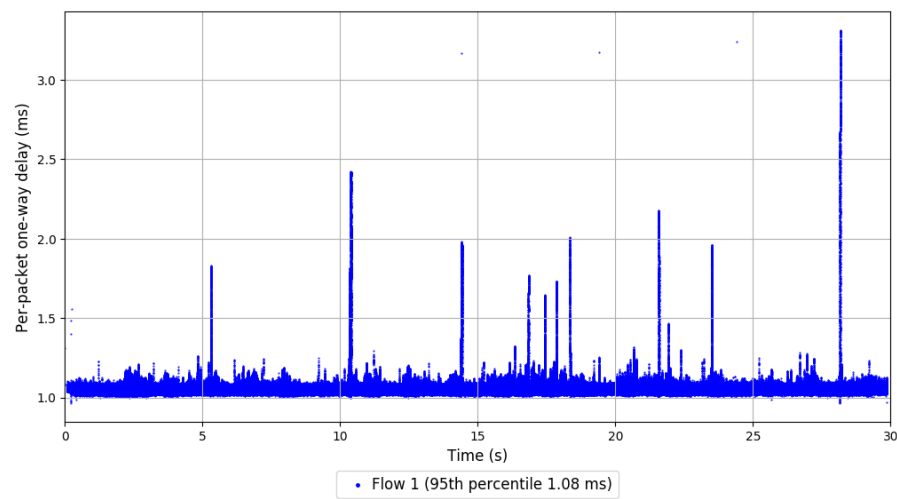
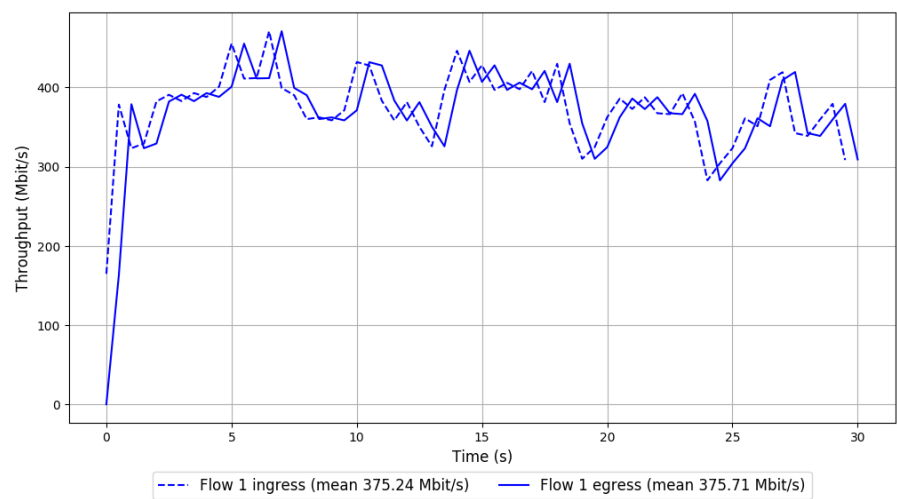
-- Flow 1:

Average throughput: 375.71 Mbit/s

95th percentile per-packet one-way delay: 1.084 ms

Loss rate: 0.00%

Run 9: Report of PCC-Expr — Data Link



Run 10: Statistics of PCC-Expr

Start at: 2018-07-25 03:51:31

End at: 2018-07-25 03:52:01

Local clock offset: 3.369 ms

Remote clock offset: 1.152 ms

Below is generated by plot.py at 2018-07-25 05:41:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 368.43 Mbit/s

95th percentile per-packet one-way delay: 1.135 ms

Loss rate: 0.06%

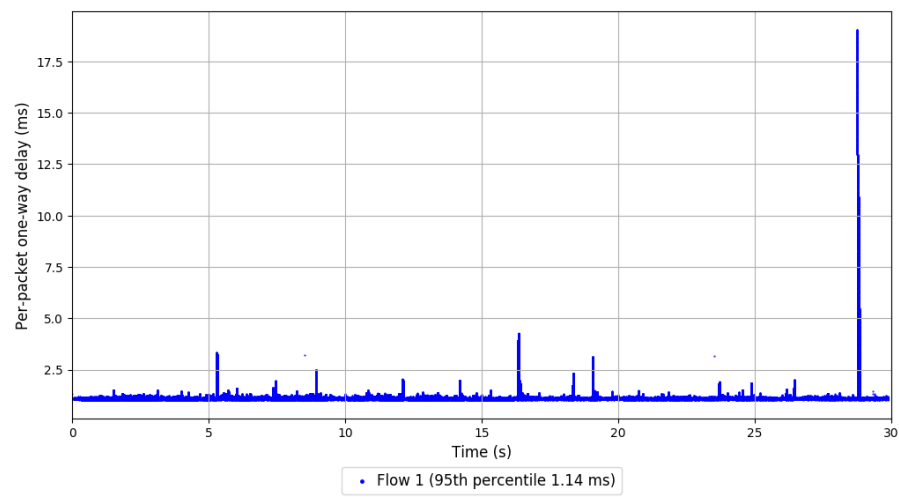
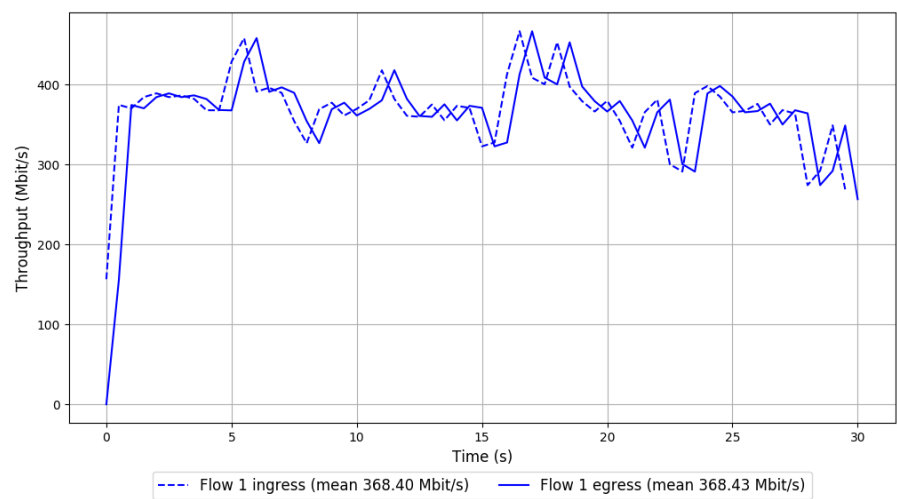
-- Flow 1:

Average throughput: 368.43 Mbit/s

95th percentile per-packet one-way delay: 1.135 ms

Loss rate: 0.06%

Run 10: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2018-07-24 23:37:11

End at: 2018-07-24 23:37:41

Local clock offset: 3.55 ms

Remote clock offset: 0.388 ms

Below is generated by plot.py at 2018-07-25 05:41:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.16 Mbit/s

95th percentile per-packet one-way delay: 1.091 ms

Loss rate: 0.06%

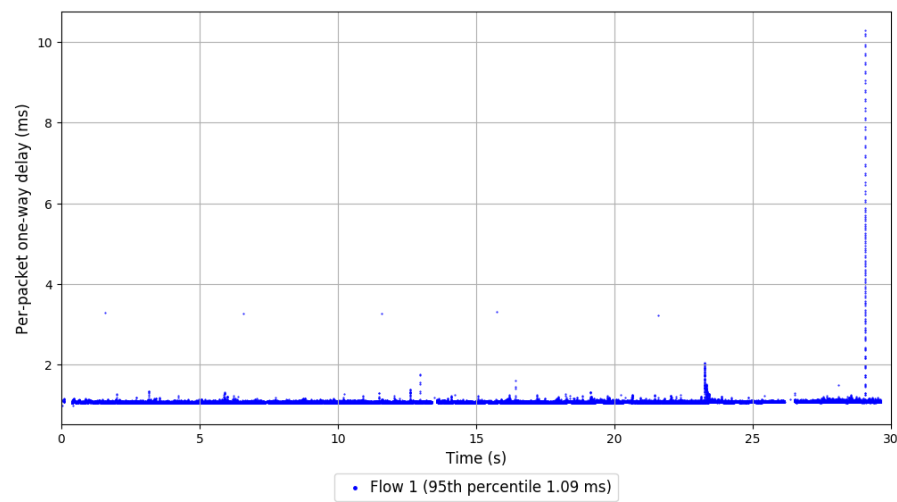
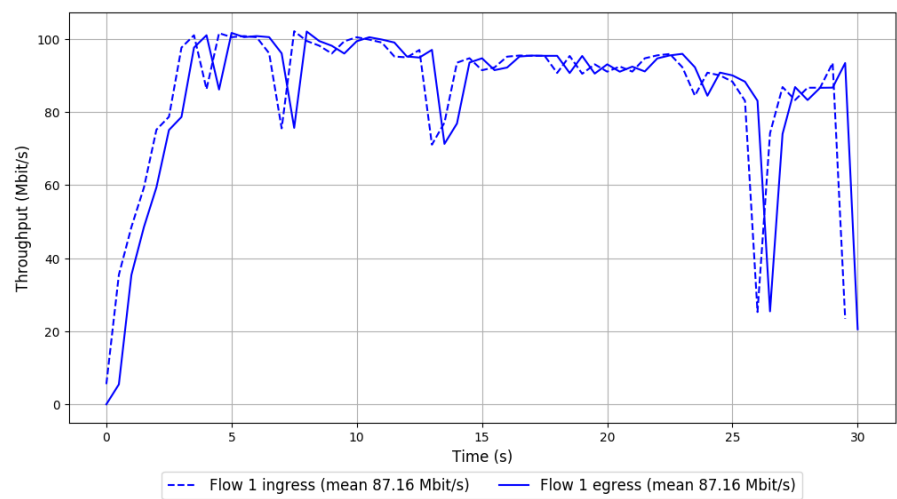
-- Flow 1:

Average throughput: 87.16 Mbit/s

95th percentile per-packet one-way delay: 1.091 ms

Loss rate: 0.06%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-07-25 00:03:01

End at: 2018-07-25 00:03:31

Local clock offset: 3.375 ms

Remote clock offset: 1.036 ms

Below is generated by plot.py at 2018-07-25 05:41:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.17 Mbit/s

95th percentile per-packet one-way delay: 1.057 ms

Loss rate: 0.08%

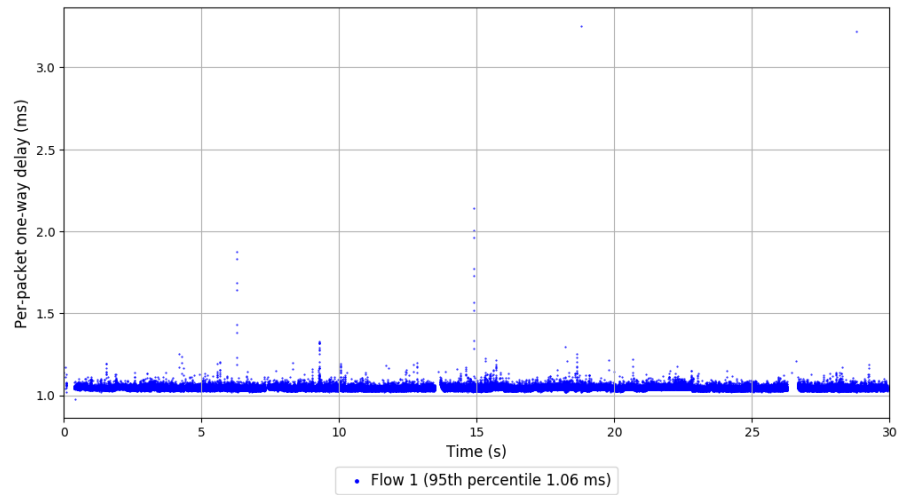
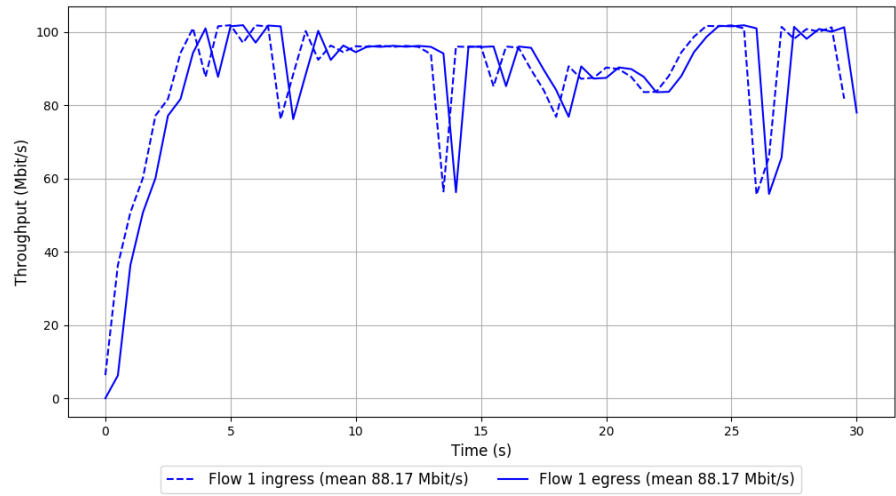
-- Flow 1:

Average throughput: 88.17 Mbit/s

95th percentile per-packet one-way delay: 1.057 ms

Loss rate: 0.08%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-07-25 00:28:49

End at: 2018-07-25 00:29:19

Local clock offset: 3.321 ms

Remote clock offset: 1.601 ms

Below is generated by plot.py at 2018-07-25 05:41:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.82 Mbit/s

95th percentile per-packet one-way delay: 1.128 ms

Loss rate: 0.07%

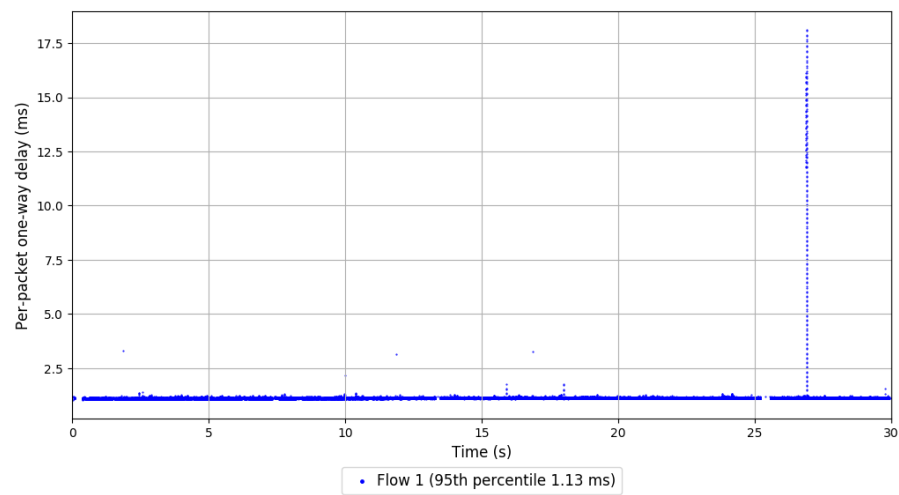
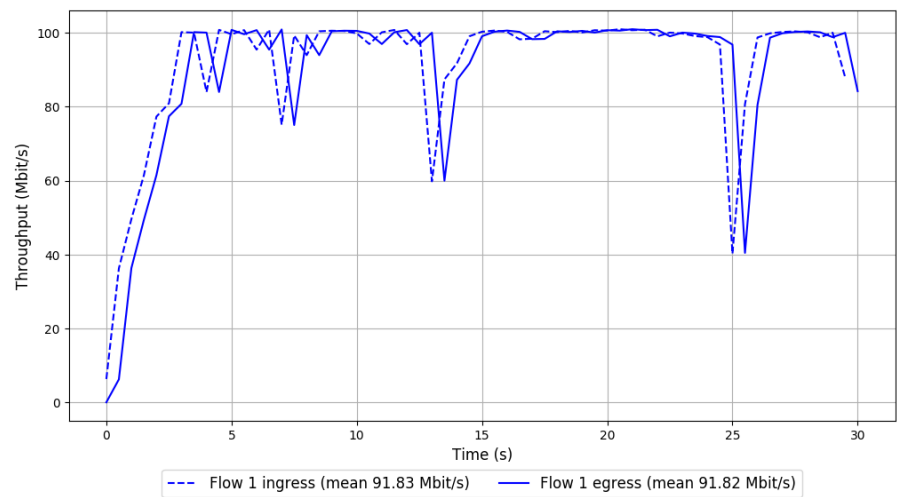
-- Flow 1:

Average throughput: 91.82 Mbit/s

95th percentile per-packet one-way delay: 1.128 ms

Loss rate: 0.07%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-07-25 00:54:35

End at: 2018-07-25 00:55:05

Local clock offset: 3.36 ms

Remote clock offset: 2.008 ms

Below is generated by plot.py at 2018-07-25 05:41:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.48 Mbit/s

95th percentile per-packet one-way delay: 1.089 ms

Loss rate: 0.07%

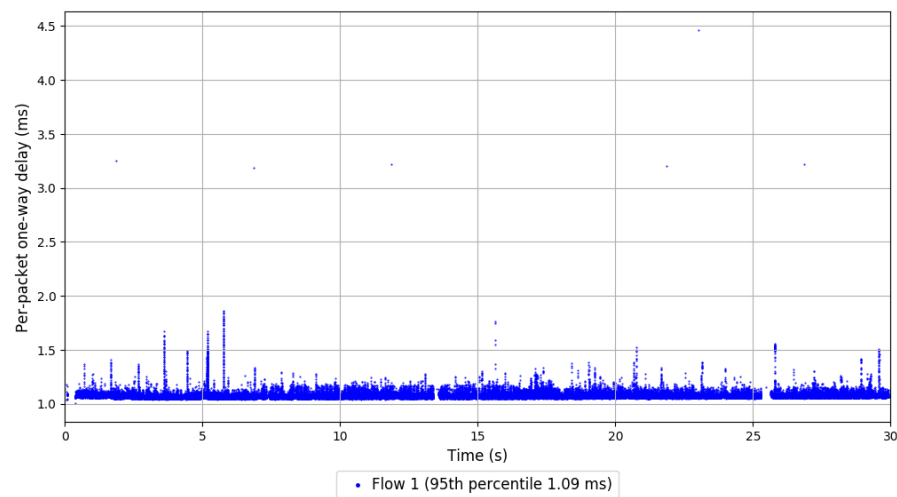
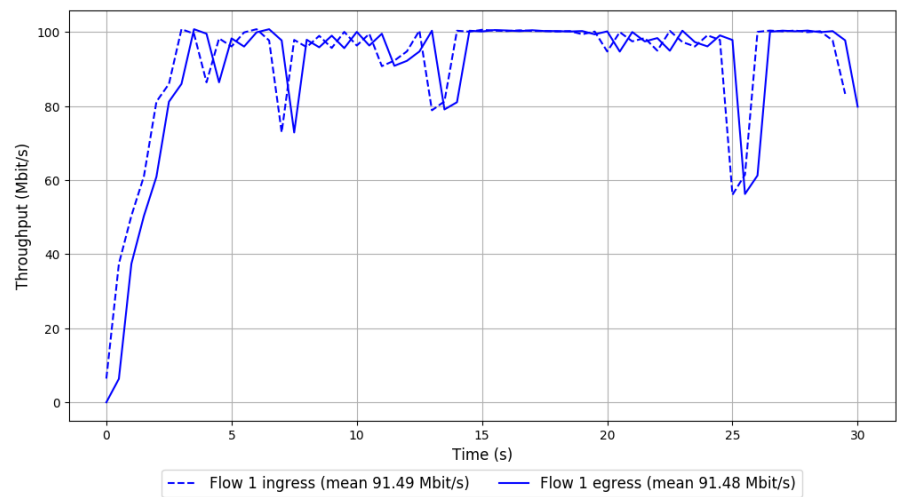
-- Flow 1:

Average throughput: 91.48 Mbit/s

95th percentile per-packet one-way delay: 1.089 ms

Loss rate: 0.07%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-07-25 01:20:37

End at: 2018-07-25 01:21:07

Local clock offset: 3.582 ms

Remote clock offset: 2.392 ms

Below is generated by plot.py at 2018-07-25 05:41:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 81.43 Mbit/s

95th percentile per-packet one-way delay: 1.043 ms

Loss rate: 0.07%

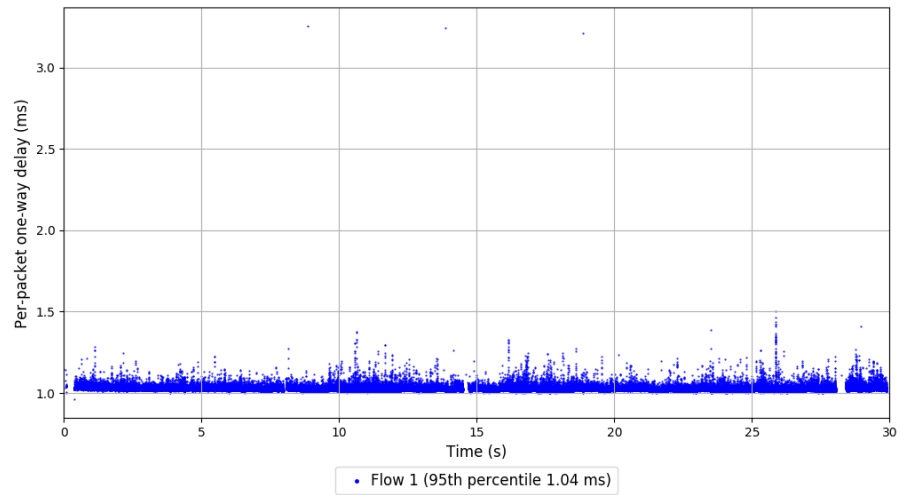
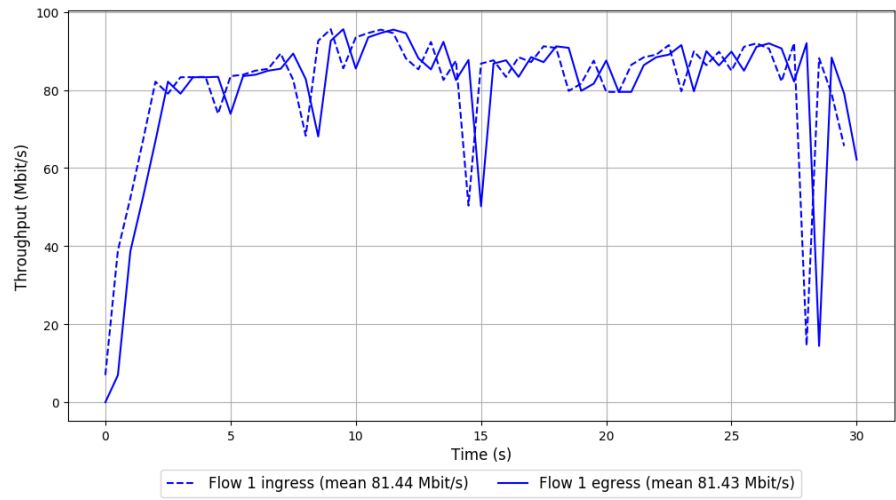
-- Flow 1:

Average throughput: 81.43 Mbit/s

95th percentile per-packet one-way delay: 1.043 ms

Loss rate: 0.07%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-07-25 01:46:24

End at: 2018-07-25 01:46:54

Local clock offset: 3.608 ms

Remote clock offset: 2.216 ms

Below is generated by plot.py at 2018-07-25 05:41:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.45 Mbit/s

95th percentile per-packet one-way delay: 1.044 ms

Loss rate: 0.07%

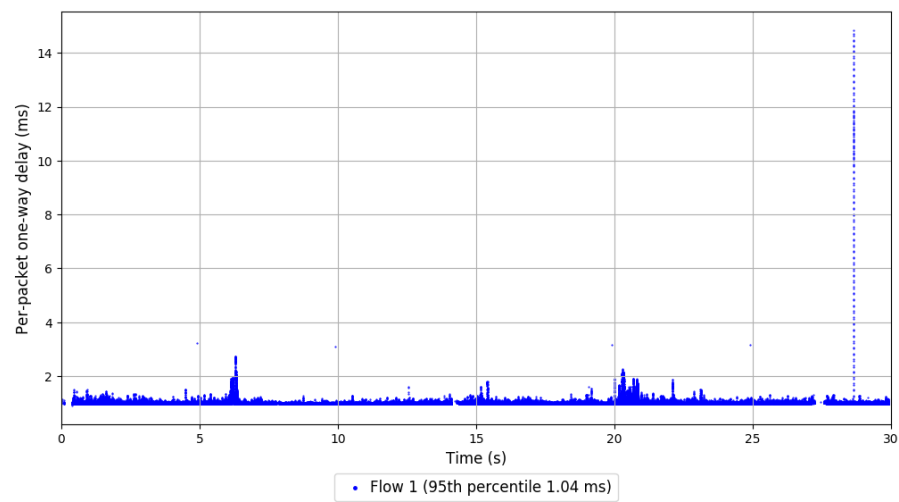
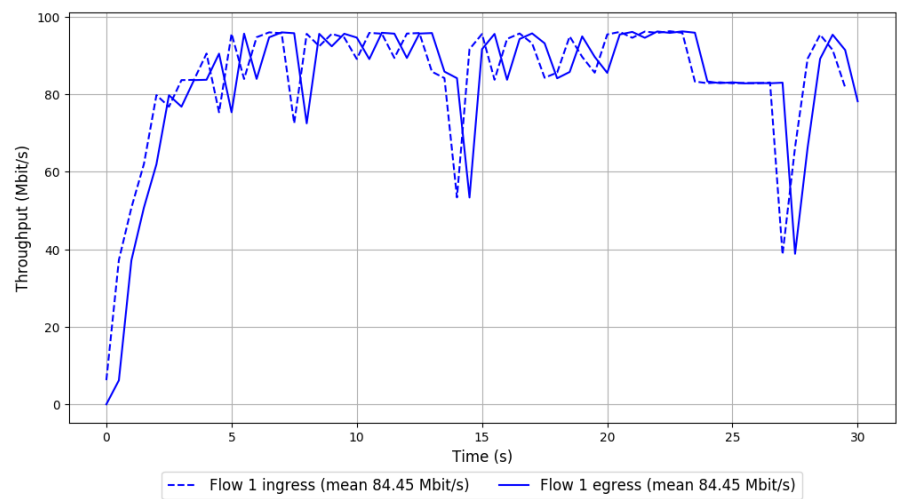
-- Flow 1:

Average throughput: 84.45 Mbit/s

95th percentile per-packet one-way delay: 1.044 ms

Loss rate: 0.07%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-07-25 02:12:20

End at: 2018-07-25 02:12:50

Local clock offset: 3.484 ms

Remote clock offset: 1.844 ms

Below is generated by plot.py at 2018-07-25 05:41:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.82 Mbit/s

95th percentile per-packet one-way delay: 1.070 ms

Loss rate: 0.07%

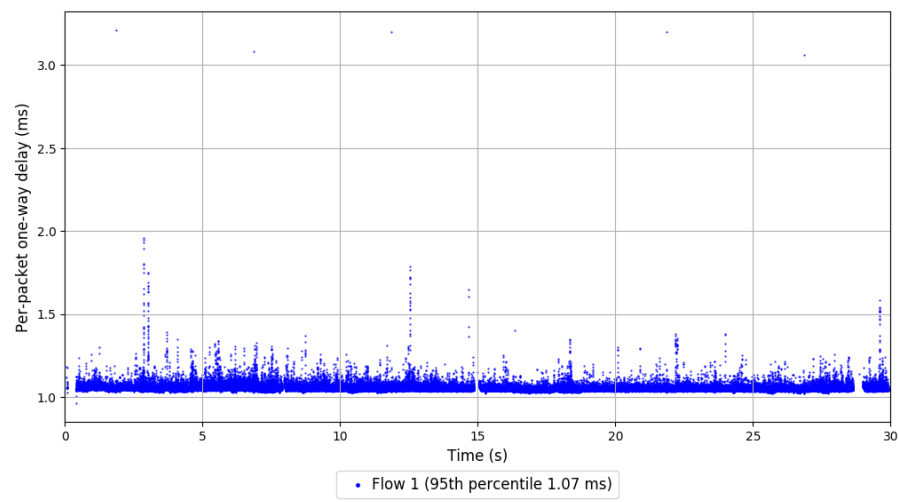
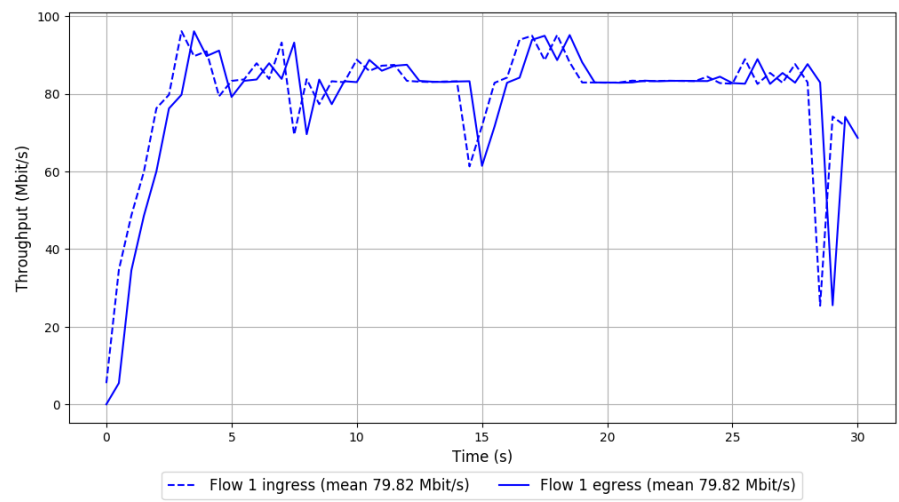
-- Flow 1:

Average throughput: 79.82 Mbit/s

95th percentile per-packet one-way delay: 1.070 ms

Loss rate: 0.07%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-07-25 02:38:11

End at: 2018-07-25 02:38:41

Local clock offset: 3.237 ms

Remote clock offset: 1.428 ms

Below is generated by plot.py at 2018-07-25 05:41:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.08 Mbit/s

95th percentile per-packet one-way delay: 1.041 ms

Loss rate: 0.07%

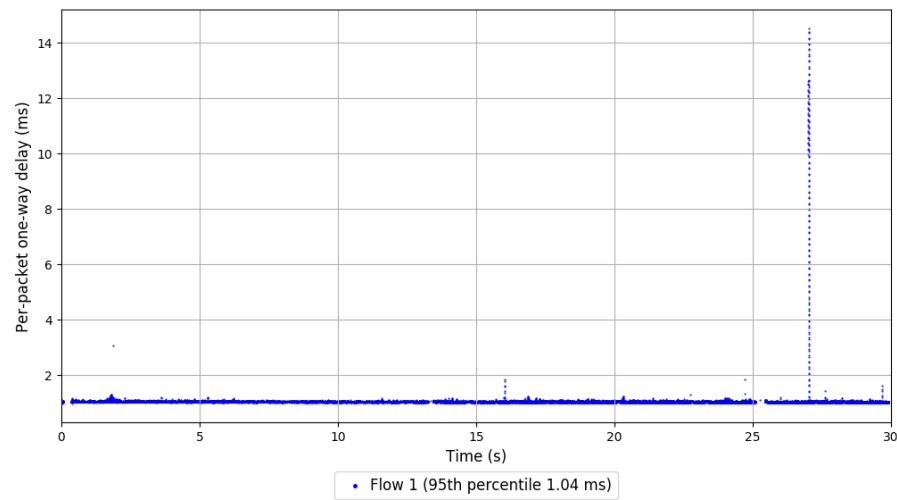
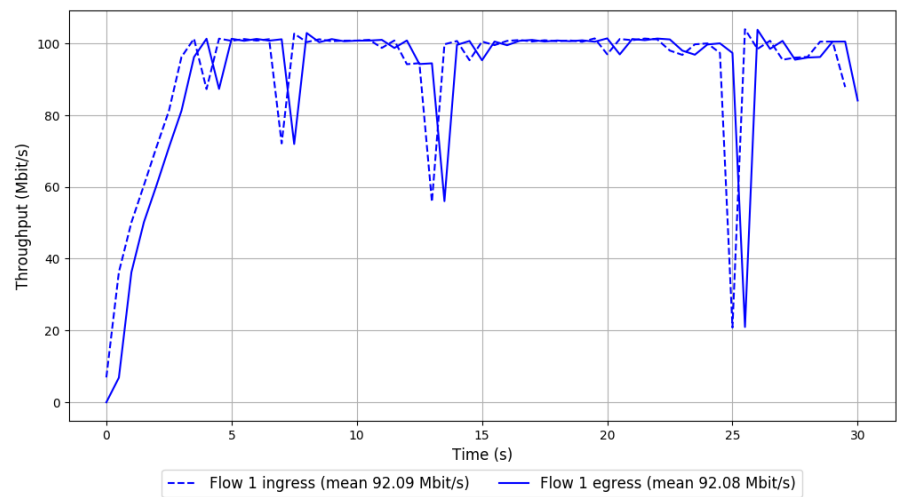
-- Flow 1:

Average throughput: 92.08 Mbit/s

95th percentile per-packet one-way delay: 1.041 ms

Loss rate: 0.07%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-07-25 03:04:03

End at: 2018-07-25 03:04:33

Local clock offset: 3.001 ms

Remote clock offset: 1.069 ms

Below is generated by plot.py at 2018-07-25 05:41:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.25 Mbit/s

95th percentile per-packet one-way delay: 0.931 ms

Loss rate: 0.07%

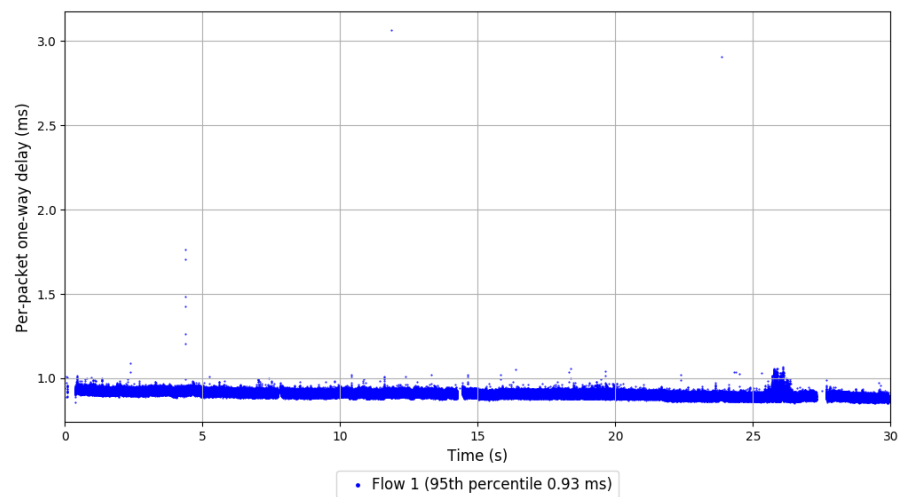
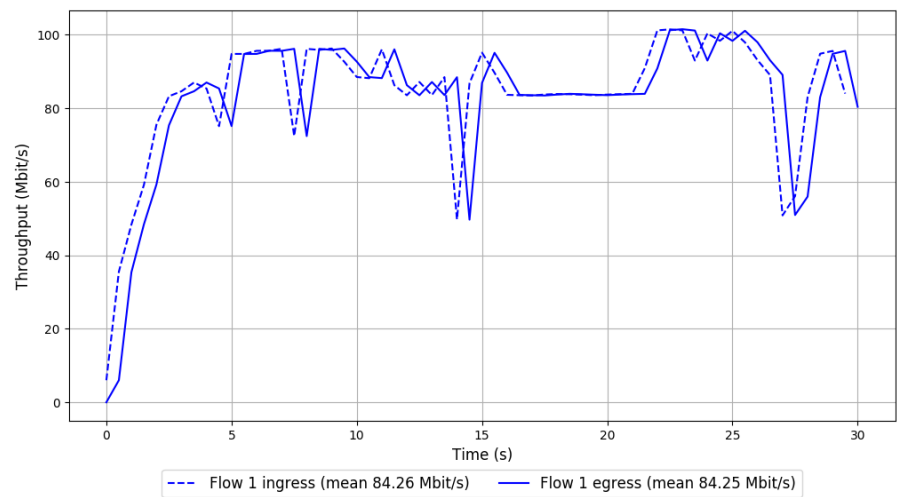
-- Flow 1:

Average throughput: 84.25 Mbit/s

95th percentile per-packet one-way delay: 0.931 ms

Loss rate: 0.07%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-07-25 03:29:52

End at: 2018-07-25 03:30:23

Local clock offset: 3.529 ms

Remote clock offset: 1.019 ms

Below is generated by plot.py at 2018-07-25 05:41:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.60 Mbit/s

95th percentile per-packet one-way delay: 1.120 ms

Loss rate: 0.07%

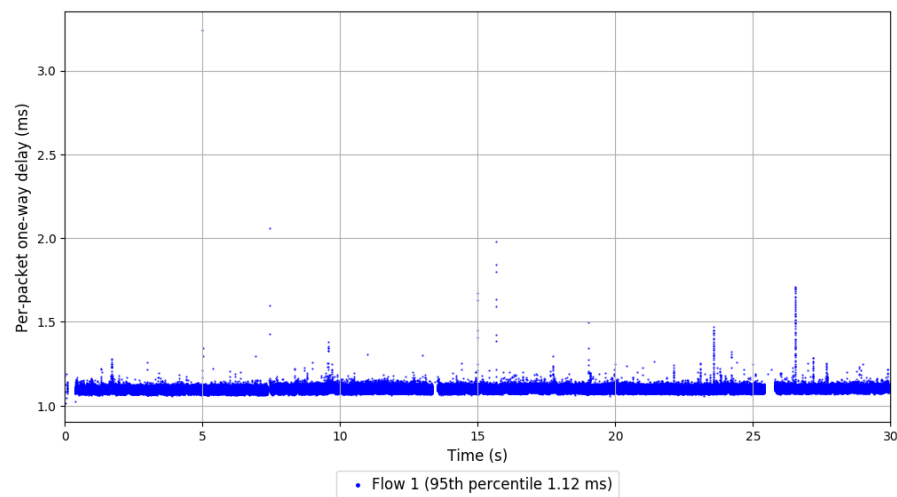
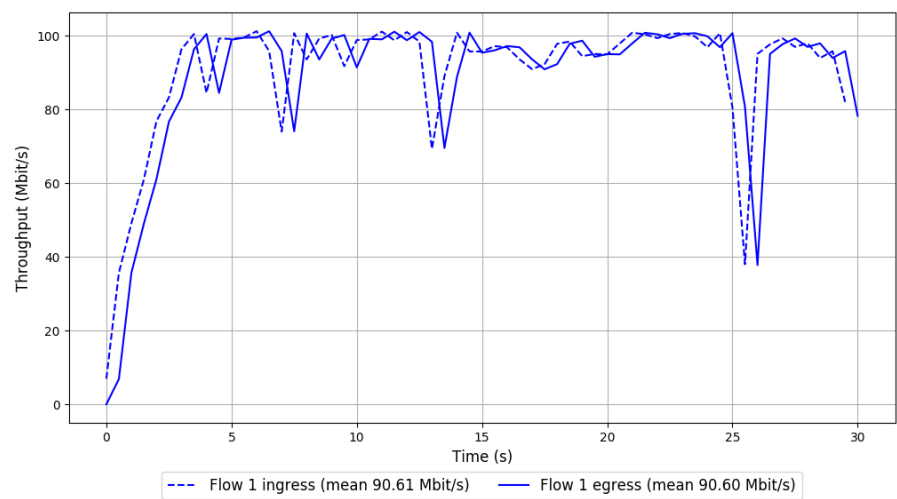
-- Flow 1:

Average throughput: 90.60 Mbit/s

95th percentile per-packet one-way delay: 1.120 ms

Loss rate: 0.07%

Run 10: Report of QUIC Cubic — Data Link

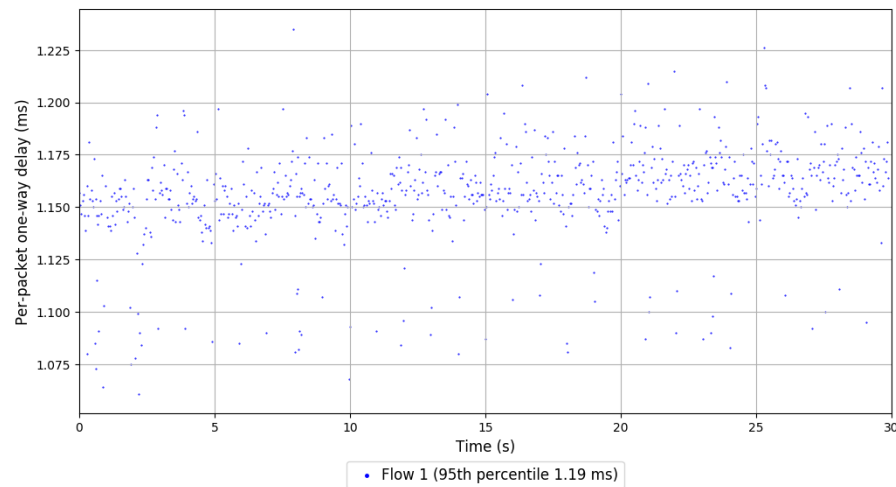
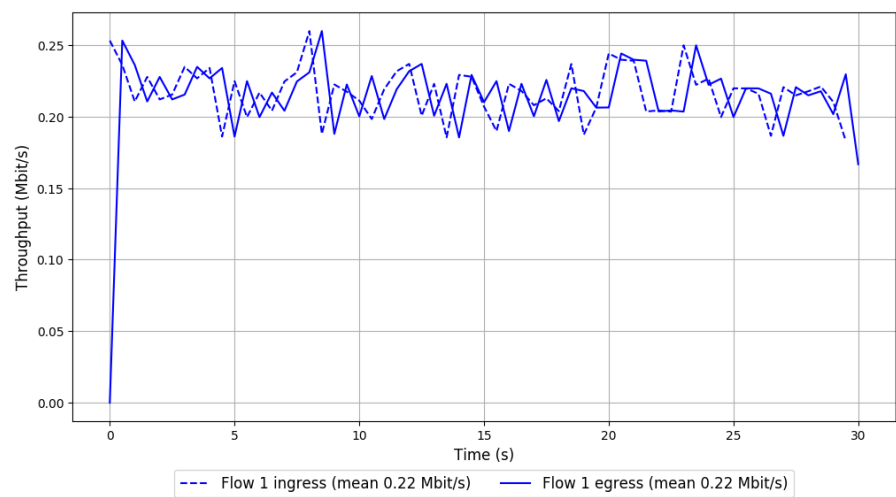


```
Run 1: Statistics of SCReAM

Start at: 2018-07-24 23:44:57
End at: 2018-07-24 23:45:27
Local clock offset: 3.429 ms
Remote clock offset: 0.566 ms

# Below is generated by plot.py at 2018-07-25 05:41:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.189 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.189 ms
Loss rate: 0.13%
```

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2018-07-25 00:10:47

End at: 2018-07-25 00:11:17

Local clock offset: 3.472 ms

Remote clock offset: 1.206 ms

Below is generated by plot.py at 2018-07-25 05:41:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.156 ms

Loss rate: 0.13%

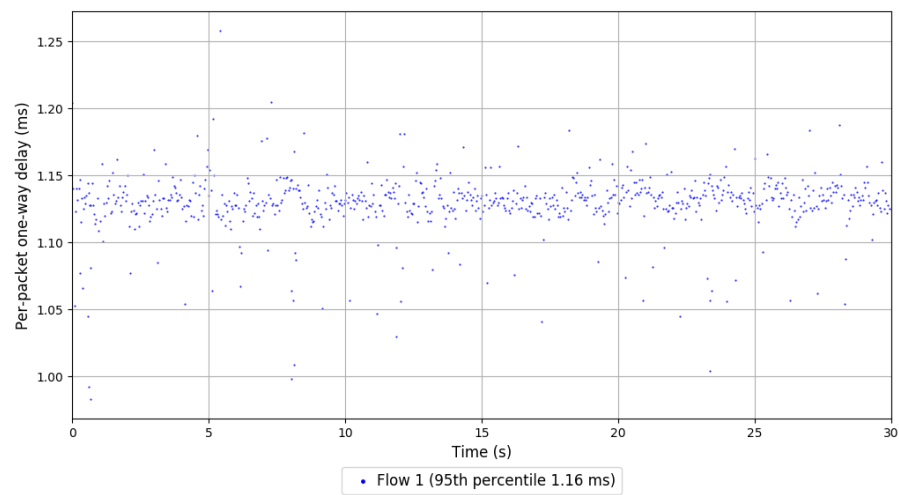
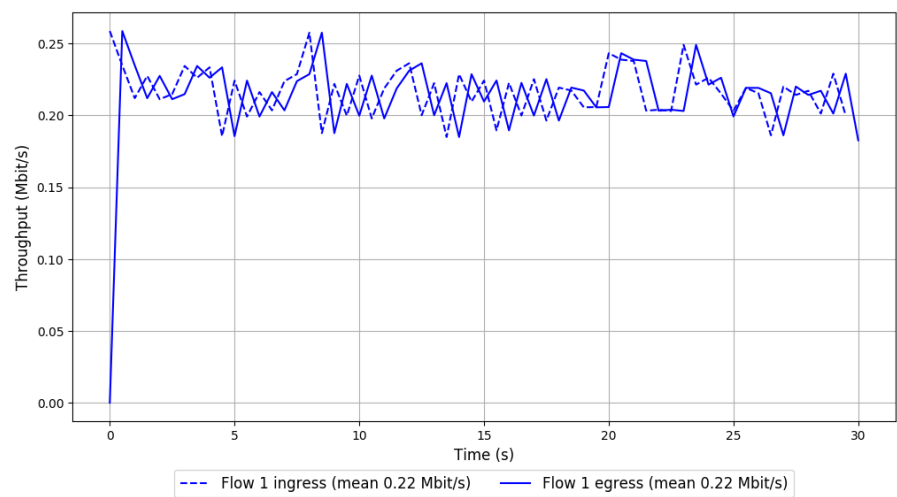
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.156 ms

Loss rate: 0.13%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-07-25 00:36:35

End at: 2018-07-25 00:37:05

Local clock offset: 3.27 ms

Remote clock offset: 1.802 ms

Below is generated by plot.py at 2018-07-25 05:41:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.093 ms

Loss rate: 0.00%

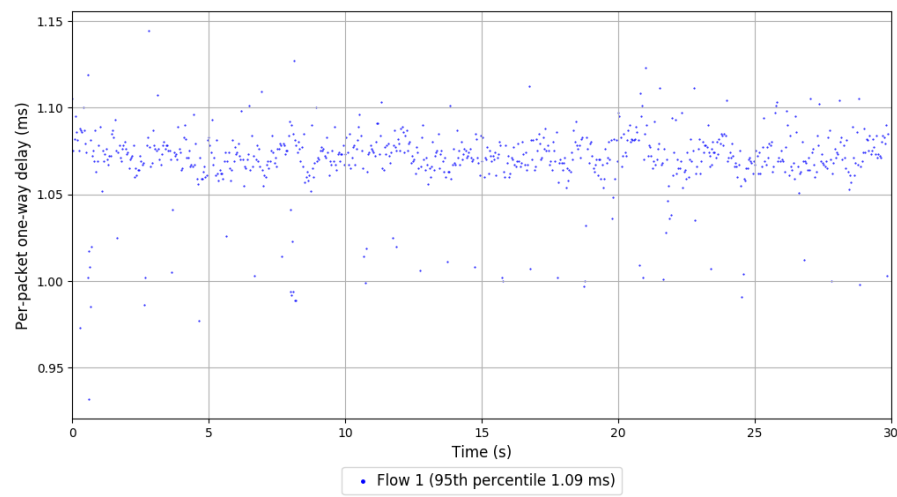
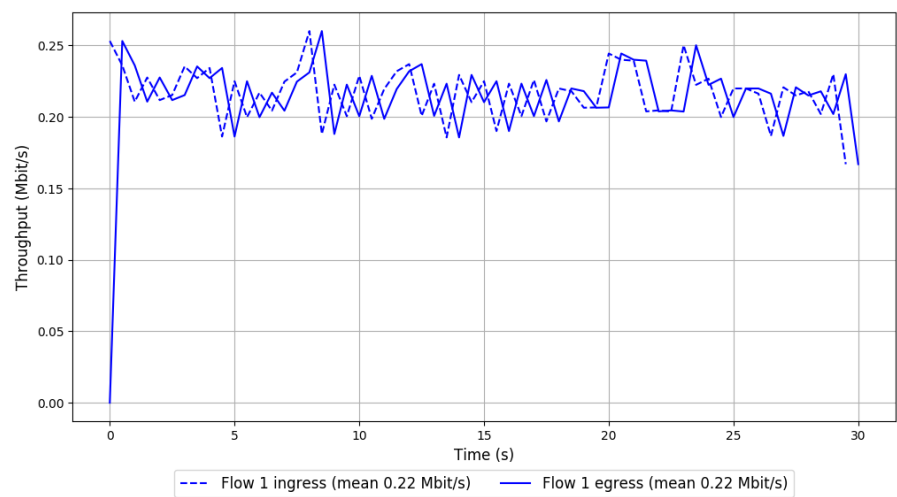
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.093 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2018-07-25 01:02:23

End at: 2018-07-25 01:02:53

Local clock offset: 3.344 ms

Remote clock offset: 2.185 ms

Below is generated by plot.py at 2018-07-25 05:41:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.105 ms

Loss rate: 0.13%

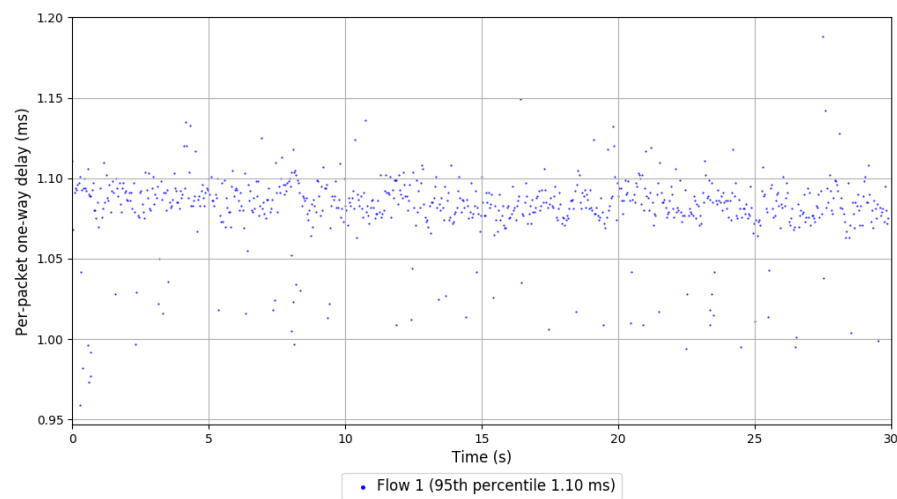
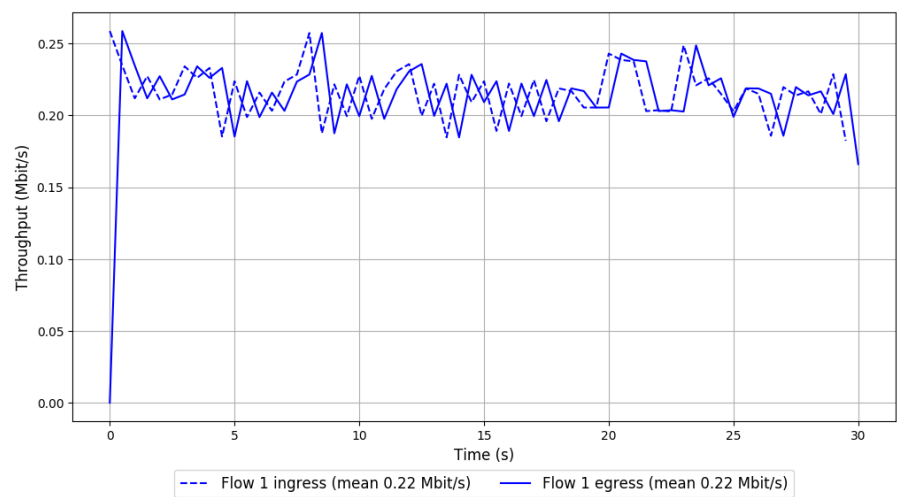
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.105 ms

Loss rate: 0.13%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-07-25 01:28:22

End at: 2018-07-25 01:28:52

Local clock offset: 3.462 ms

Remote clock offset: 2.295 ms

Below is generated by plot.py at 2018-07-25 05:41:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.155 ms

Loss rate: 0.13%

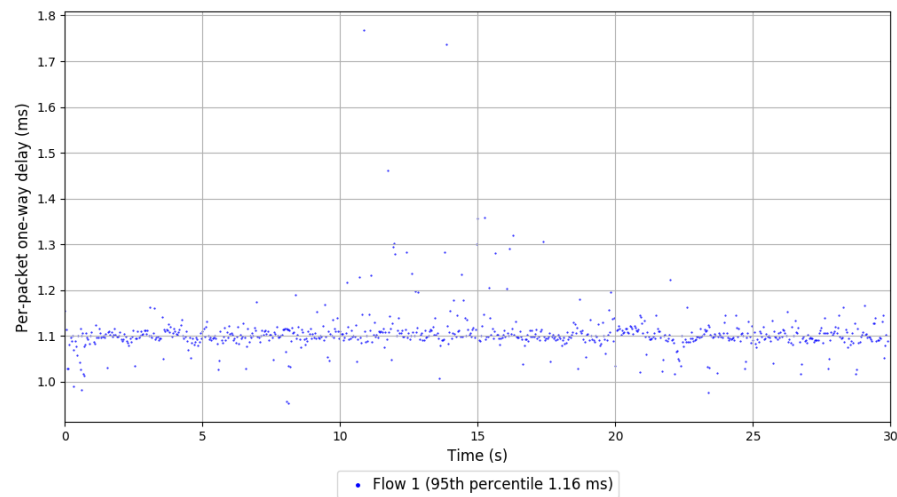
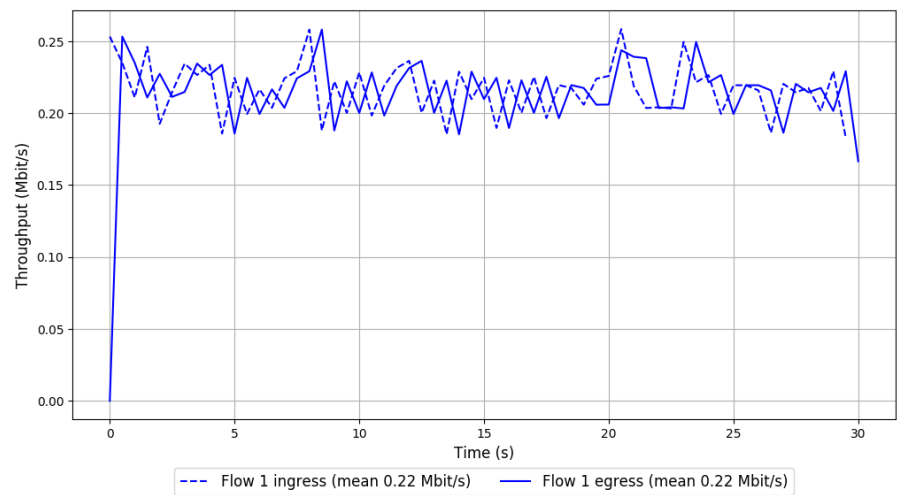
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.155 ms

Loss rate: 0.13%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-07-25 01:54:11

End at: 2018-07-25 01:54:41

Local clock offset: 3.574 ms

Remote clock offset: 2.272 ms

Below is generated by plot.py at 2018-07-25 05:41:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.132 ms

Loss rate: 0.13%

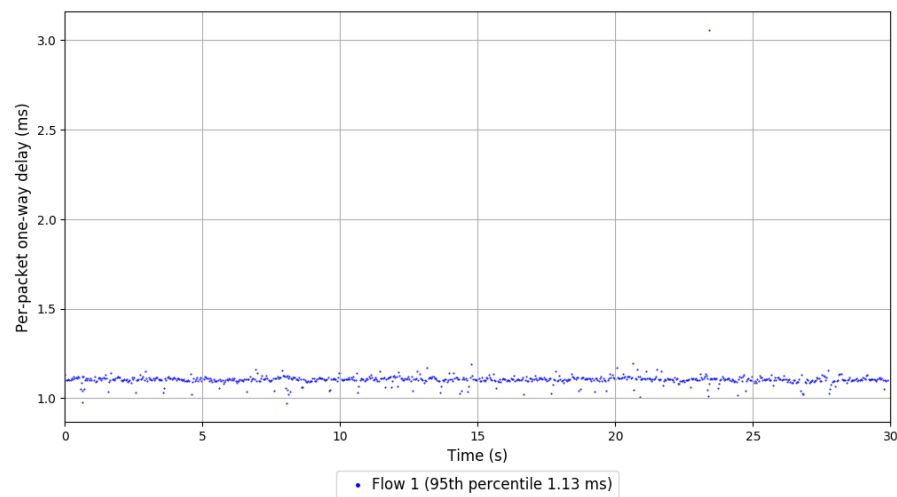
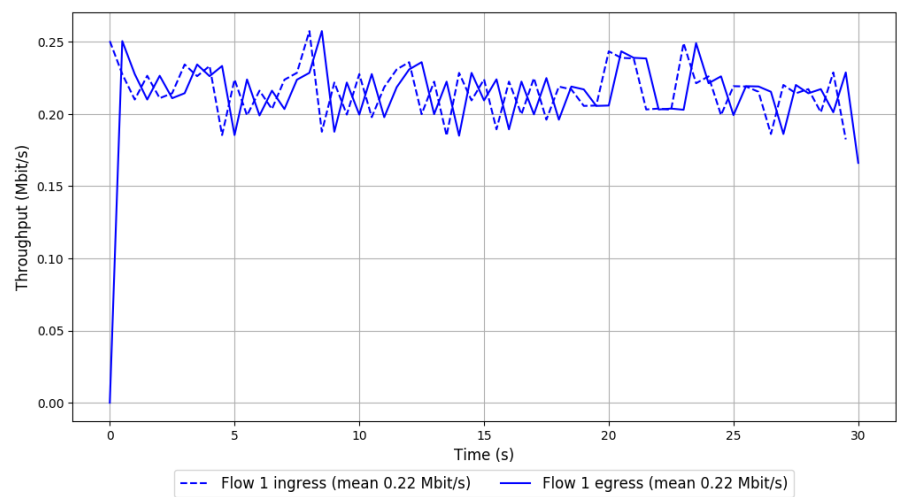
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.132 ms

Loss rate: 0.13%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2018-07-25 02:20:05

End at: 2018-07-25 02:20:35

Local clock offset: 3.362 ms

Remote clock offset: 1.762 ms

Below is generated by plot.py at 2018-07-25 05:41:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.126 ms

Loss rate: 0.13%

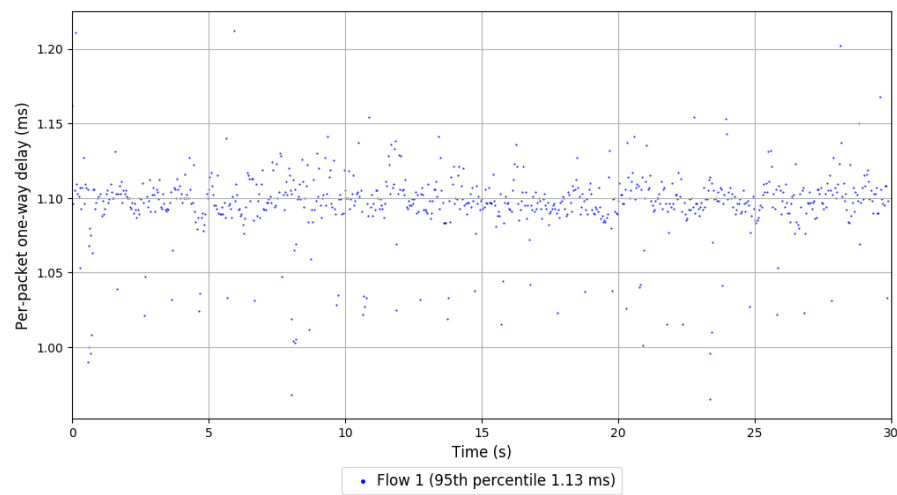
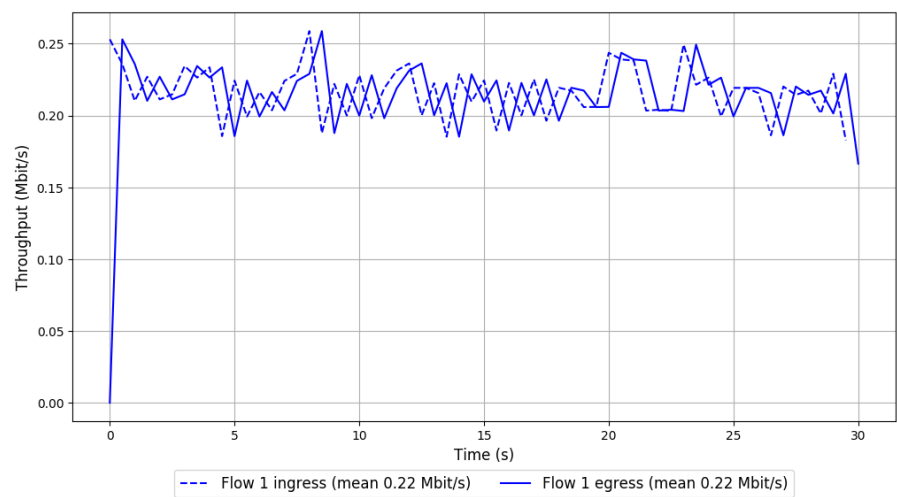
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.126 ms

Loss rate: 0.13%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-07-25 02:45:56

End at: 2018-07-25 02:46:26

Local clock offset: 3.206 ms

Remote clock offset: 1.357 ms

Below is generated by plot.py at 2018-07-25 05:41:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.179 ms

Loss rate: 0.00%

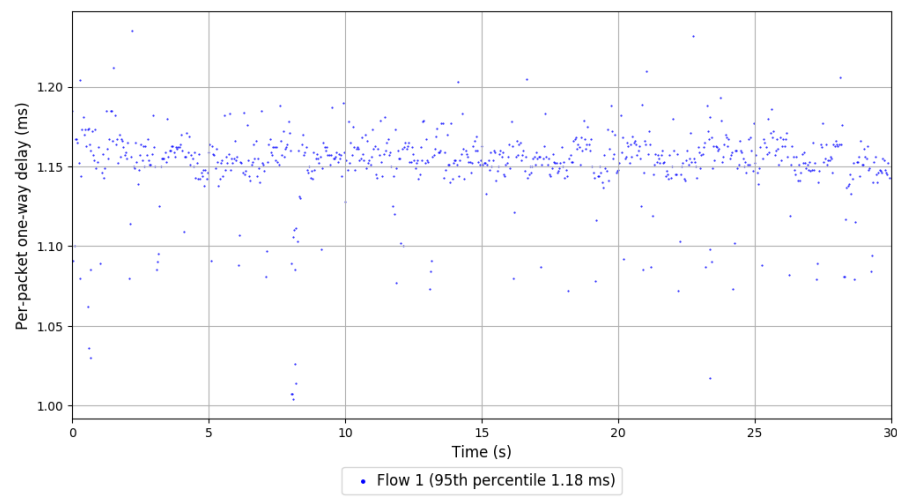
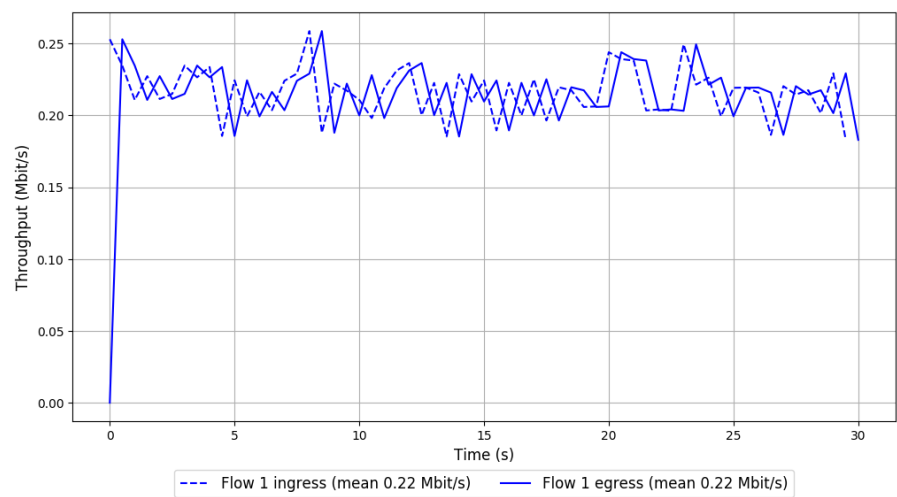
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.179 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-07-25 03:11:48

End at: 2018-07-25 03:12:18

Local clock offset: 3.431 ms

Remote clock offset: 1.032 ms

Below is generated by plot.py at 2018-07-25 05:41:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.142 ms

Loss rate: 0.00%

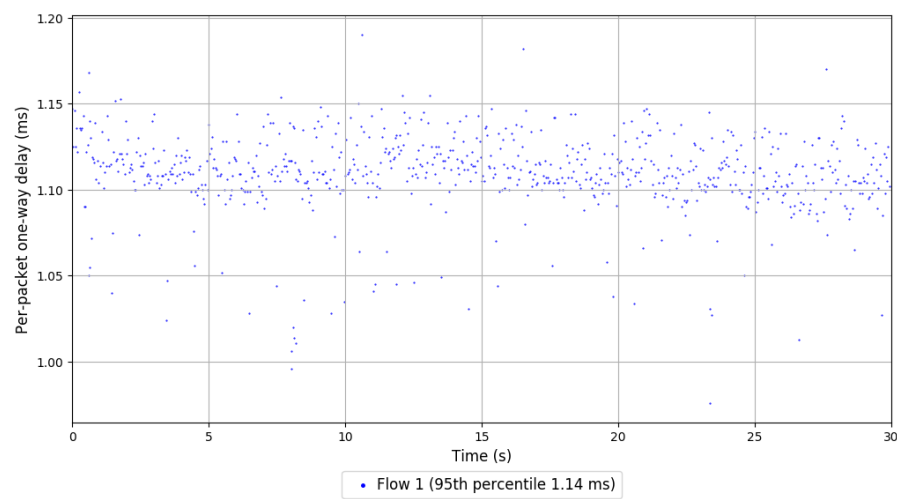
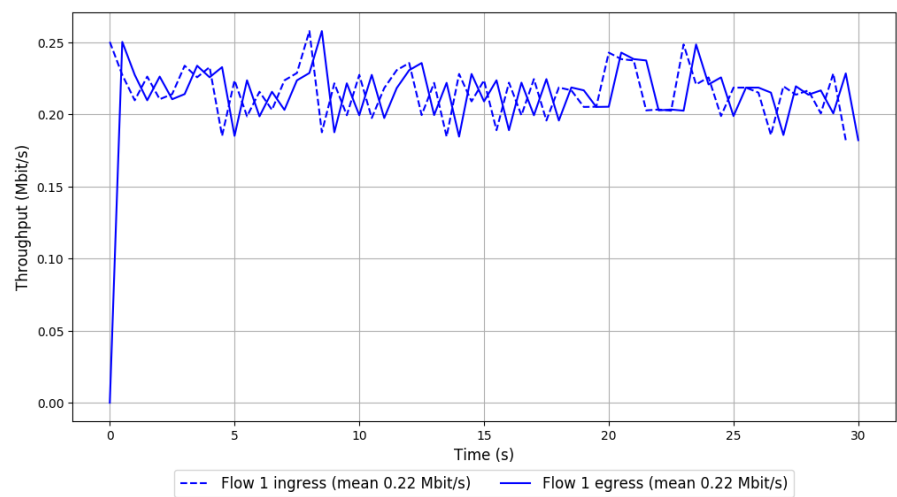
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.142 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-07-25 03:37:41

End at: 2018-07-25 03:38:11

Local clock offset: 3.516 ms

Remote clock offset: 1.062 ms

Below is generated by plot.py at 2018-07-25 05:41:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.232 ms

Loss rate: 0.13%

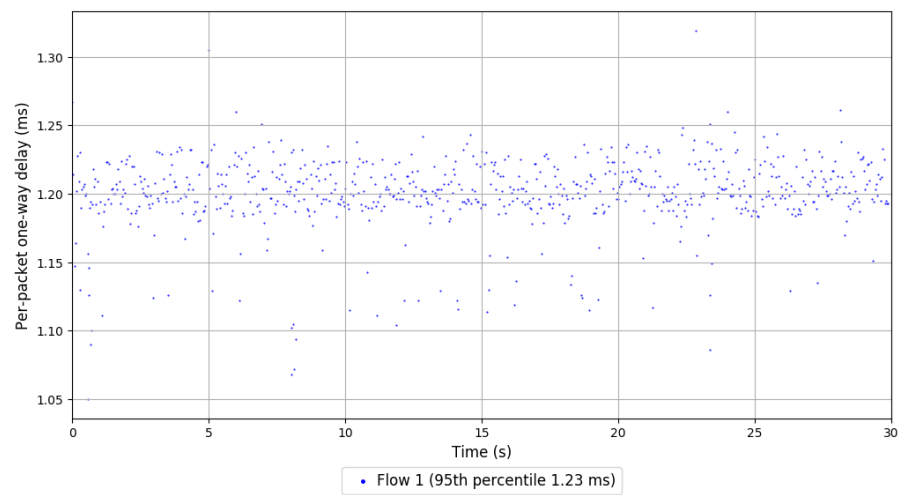
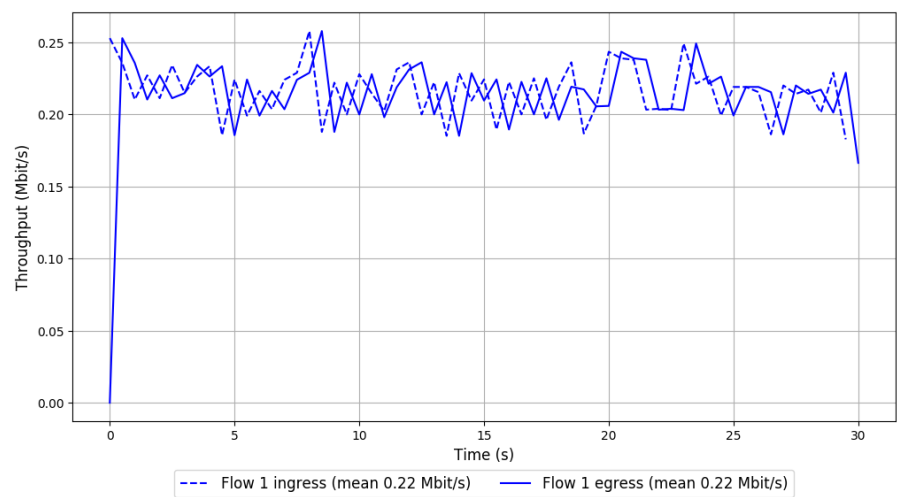
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.232 ms

Loss rate: 0.13%

Run 10: Report of SCReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2018-07-24 23:52:45

End at: 2018-07-24 23:53:15

Local clock offset: 3.401 ms

Remote clock offset: 0.779 ms

Below is generated by plot.py at 2018-07-25 05:41:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 20.53 Mbit/s

95th percentile per-packet one-way delay: 1.134 ms

Loss rate: 0.14%

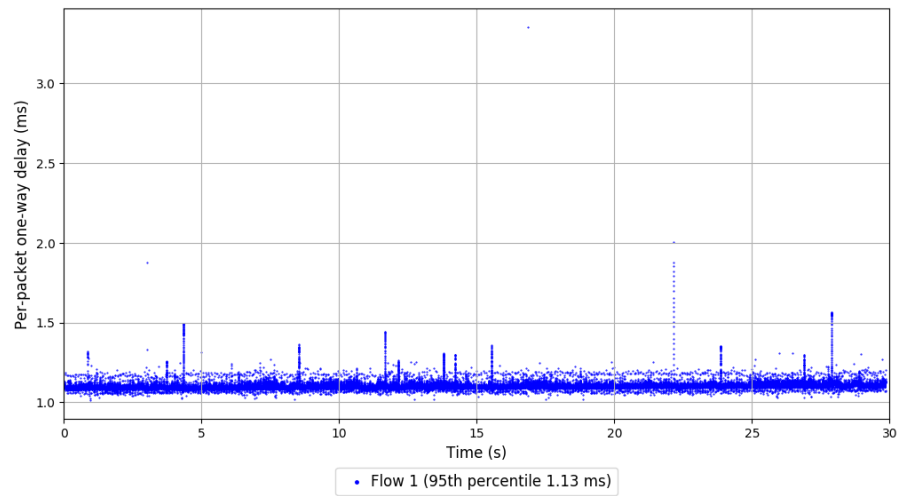
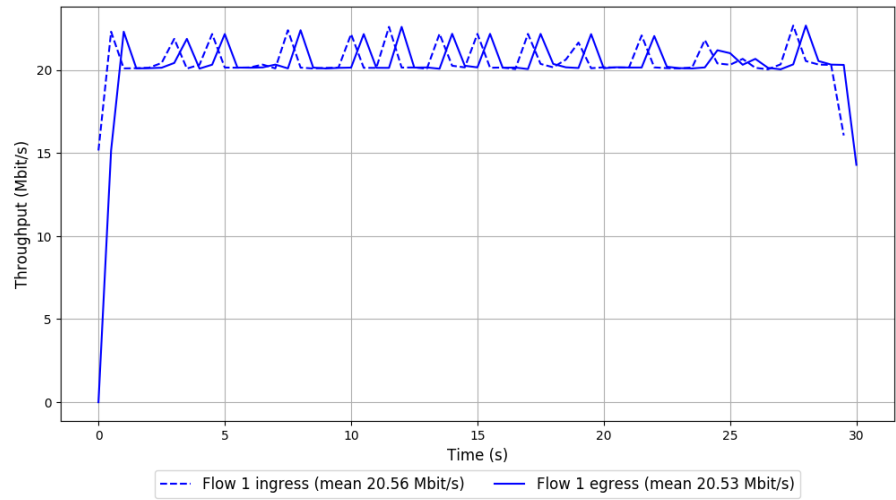
-- Flow 1:

Average throughput: 20.53 Mbit/s

95th percentile per-packet one-way delay: 1.134 ms

Loss rate: 0.14%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-07-25 00:18:33

End at: 2018-07-25 00:19:03

Local clock offset: 3.374 ms

Remote clock offset: 1.382 ms

Below is generated by plot.py at 2018-07-25 05:41:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 21.29 Mbit/s

95th percentile per-packet one-way delay: 1.042 ms

Loss rate: 0.07%

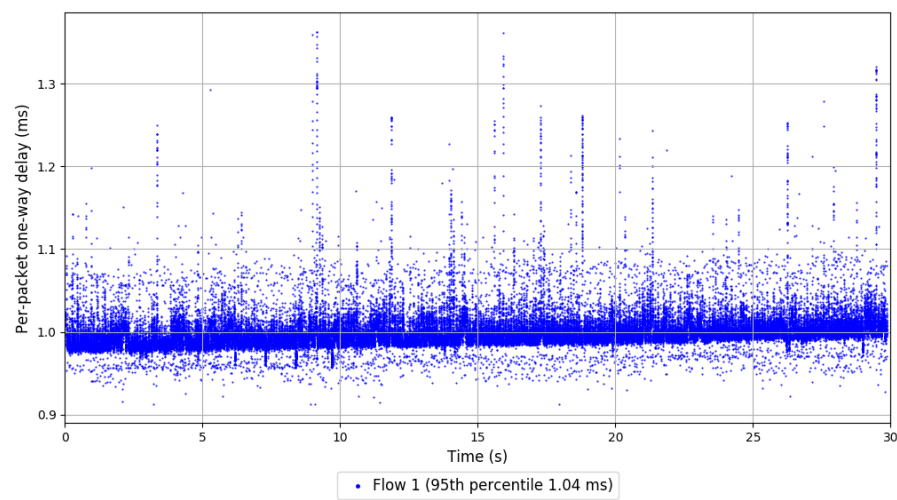
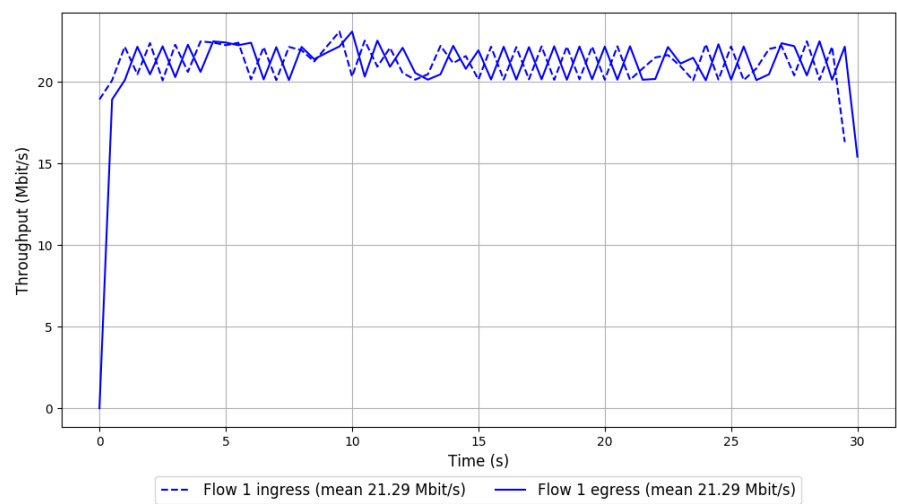
-- Flow 1:

Average throughput: 21.29 Mbit/s

95th percentile per-packet one-way delay: 1.042 ms

Loss rate: 0.07%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-07-25 00:44:22

End at: 2018-07-25 00:44:52

Local clock offset: 3.31 ms

Remote clock offset: 1.891 ms

Below is generated by plot.py at 2018-07-25 05:41:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 20.78 Mbit/s

95th percentile per-packet one-way delay: 1.020 ms

Loss rate: 0.15%

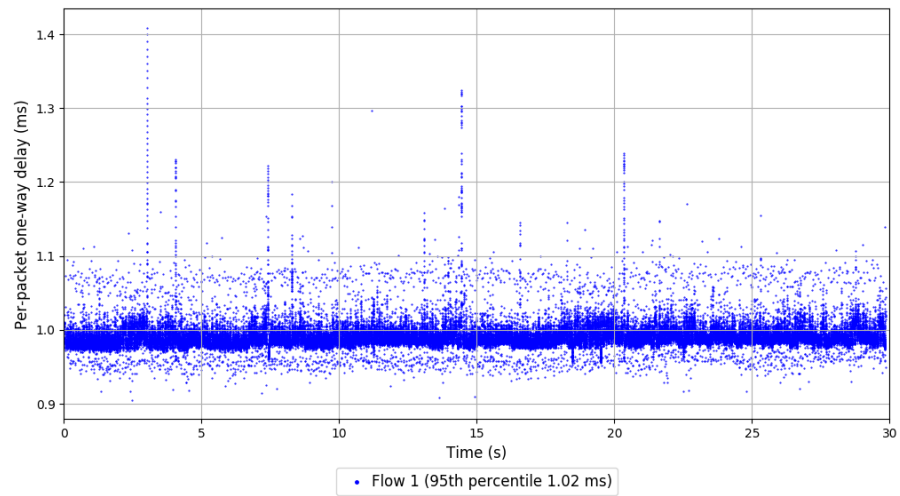
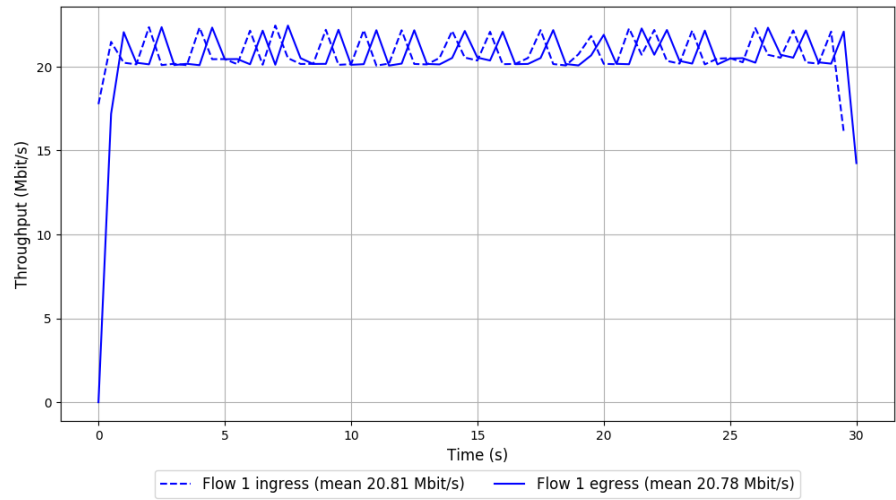
-- Flow 1:

Average throughput: 20.78 Mbit/s

95th percentile per-packet one-way delay: 1.020 ms

Loss rate: 0.15%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-07-25 01:10:20

End at: 2018-07-25 01:10:50

Local clock offset: 3.542 ms

Remote clock offset: 2.27 ms

Below is generated by plot.py at 2018-07-25 05:41:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 20.76 Mbit/s

95th percentile per-packet one-way delay: 1.094 ms

Loss rate: 0.00%

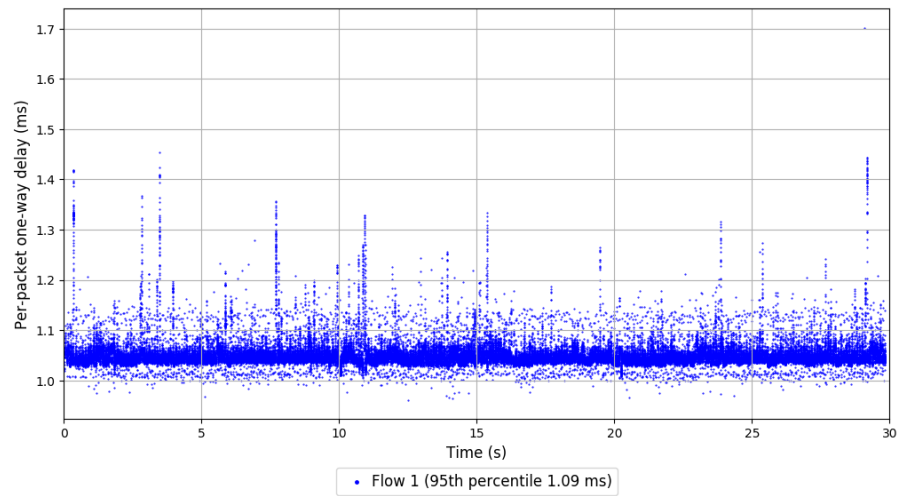
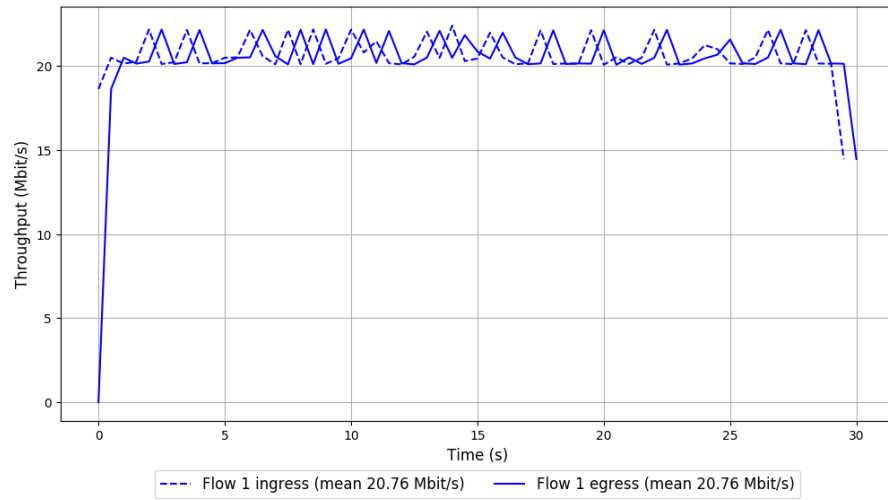
-- Flow 1:

Average throughput: 20.76 Mbit/s

95th percentile per-packet one-way delay: 1.094 ms

Loss rate: 0.00%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-07-25 01:36:09

End at: 2018-07-25 01:36:39

Local clock offset: 3.539 ms

Remote clock offset: 2.25 ms

Below is generated by plot.py at 2018-07-25 05:41:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 20.47 Mbit/s

95th percentile per-packet one-way delay: 1.049 ms

Loss rate: 0.00%

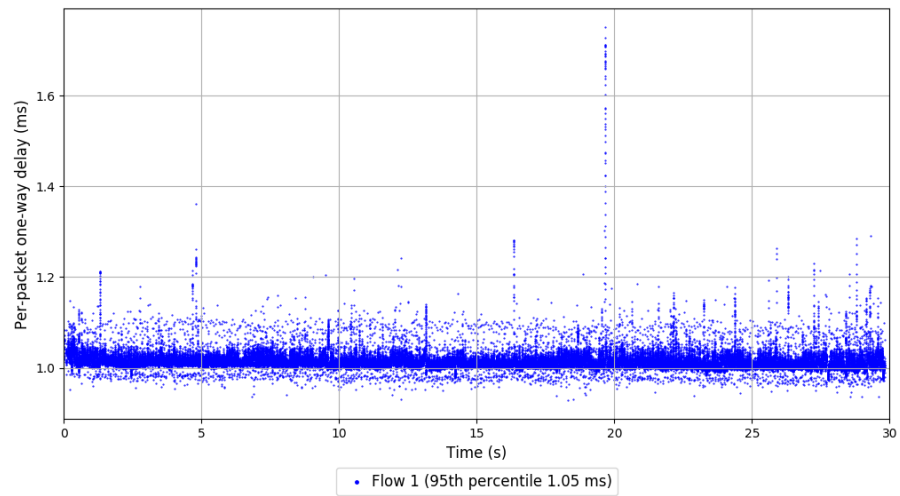
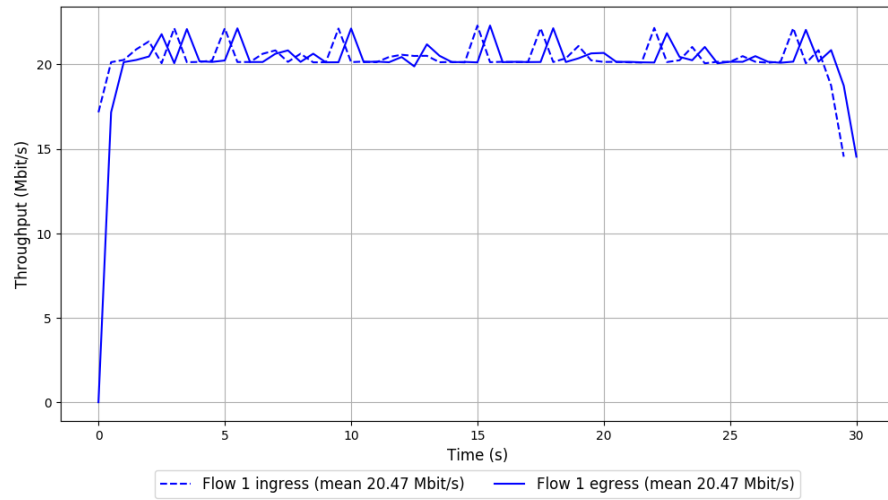
-- Flow 1:

Average throughput: 20.47 Mbit/s

95th percentile per-packet one-way delay: 1.049 ms

Loss rate: 0.00%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-07-25 02:02:03

End at: 2018-07-25 02:02:33

Local clock offset: 3.352 ms

Remote clock offset: 2.097 ms

Below is generated by plot.py at 2018-07-25 05:41:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 20.49 Mbit/s

95th percentile per-packet one-way delay: 1.008 ms

Loss rate: 0.16%

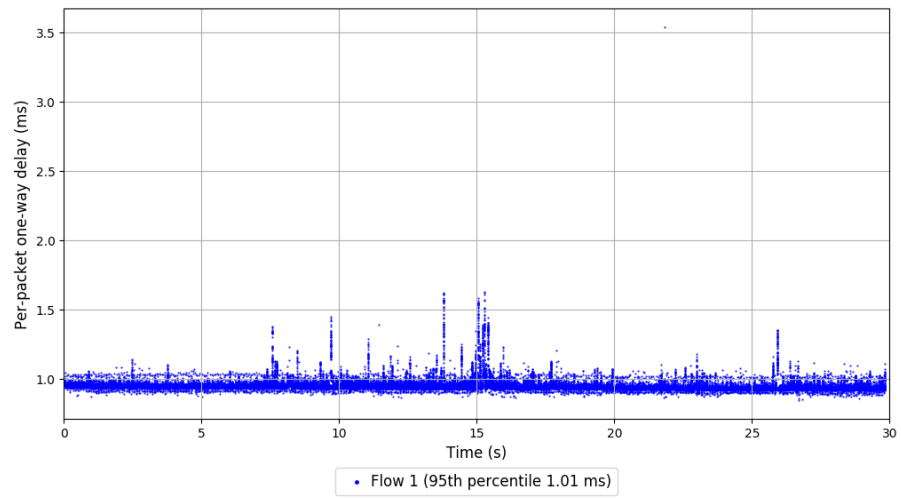
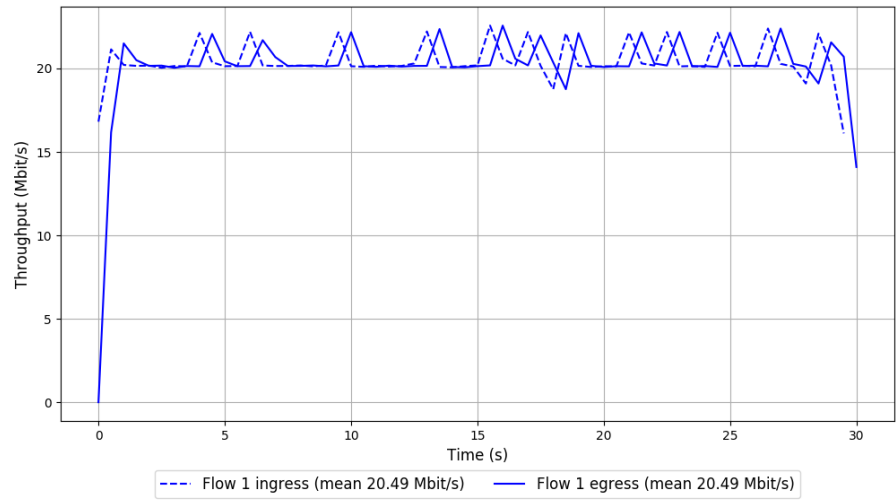
-- Flow 1:

Average throughput: 20.49 Mbit/s

95th percentile per-packet one-way delay: 1.008 ms

Loss rate: 0.16%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-07-25 02:27:56

End at: 2018-07-25 02:28:26

Local clock offset: 3.188 ms

Remote clock offset: 1.617 ms

Below is generated by plot.py at 2018-07-25 05:41:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 20.90 Mbit/s

95th percentile per-packet one-way delay: 1.136 ms

Loss rate: 0.00%

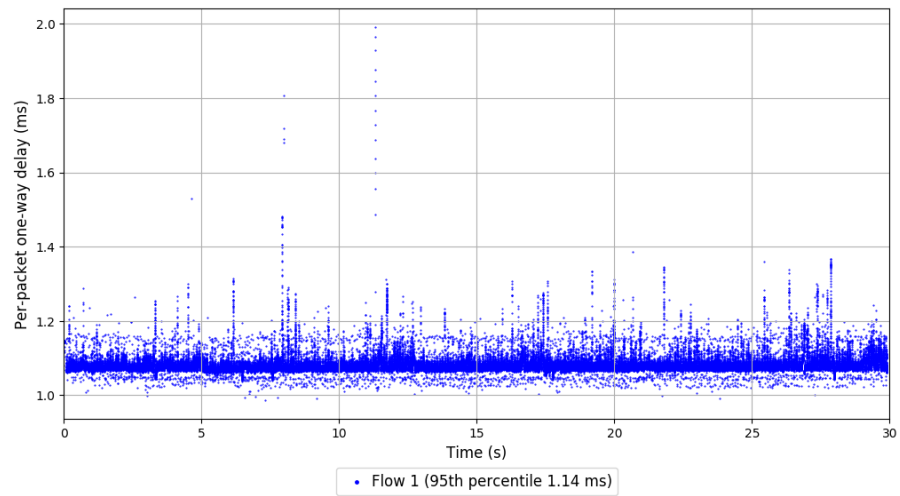
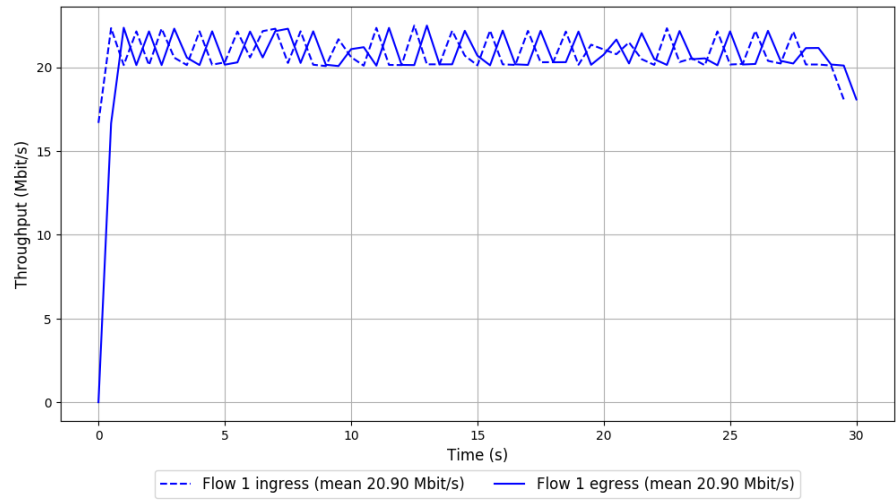
-- Flow 1:

Average throughput: 20.90 Mbit/s

95th percentile per-packet one-way delay: 1.136 ms

Loss rate: 0.00%

Run 7: Report of Sprout — Data Link

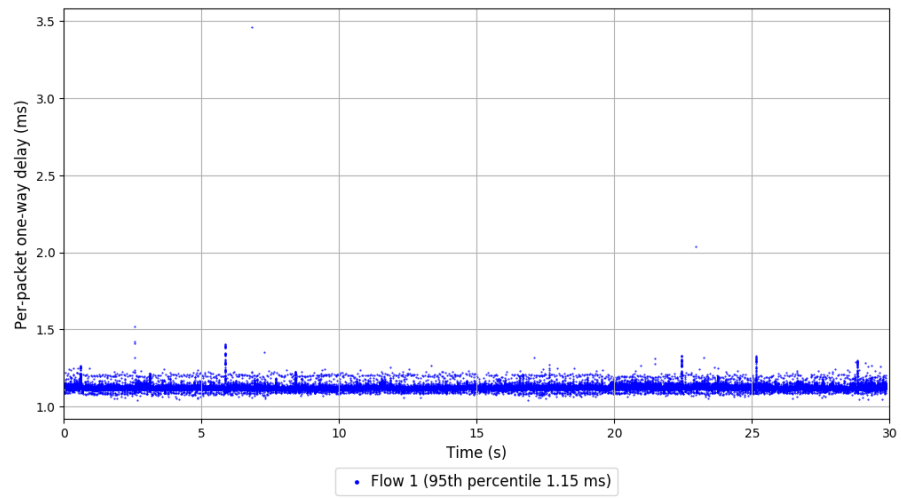
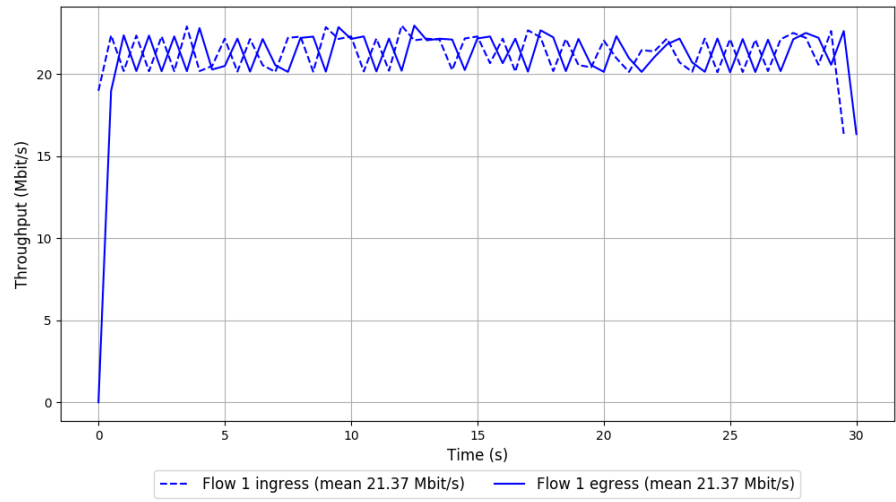


Run 8: Statistics of Sprout

Start at: 2018-07-25 02:53:54
End at: 2018-07-25 02:54:24
Local clock offset: 3.086 ms
Remote clock offset: 1.204 ms

```
# Below is generated by plot.py at 2018-07-25 05:41:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 21.37 Mbit/s
95th percentile per-packet one-way delay: 1.149 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 21.37 Mbit/s
95th percentile per-packet one-way delay: 1.149 ms
Loss rate: 0.00%
```

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-07-25 03:19:36

End at: 2018-07-25 03:20:06

Local clock offset: 3.558 ms

Remote clock offset: 1.007 ms

Below is generated by plot.py at 2018-07-25 05:41:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 21.34 Mbit/s

95th percentile per-packet one-way delay: 1.154 ms

Loss rate: 0.16%

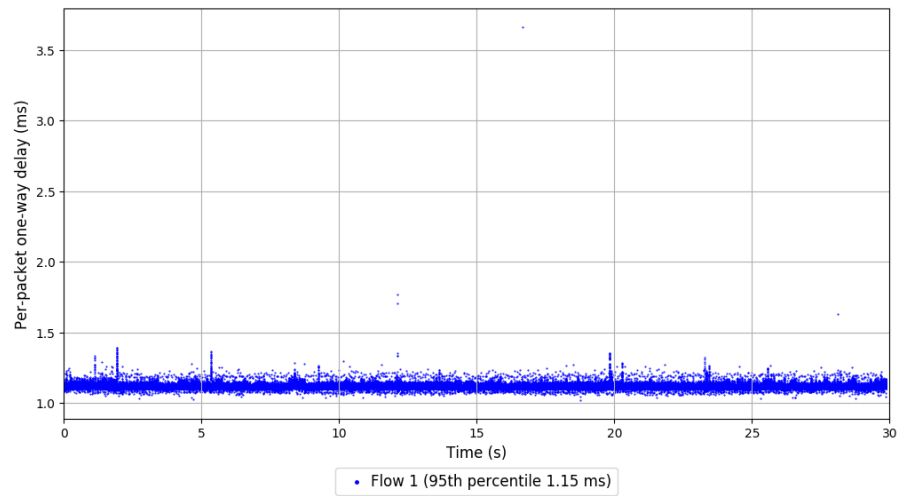
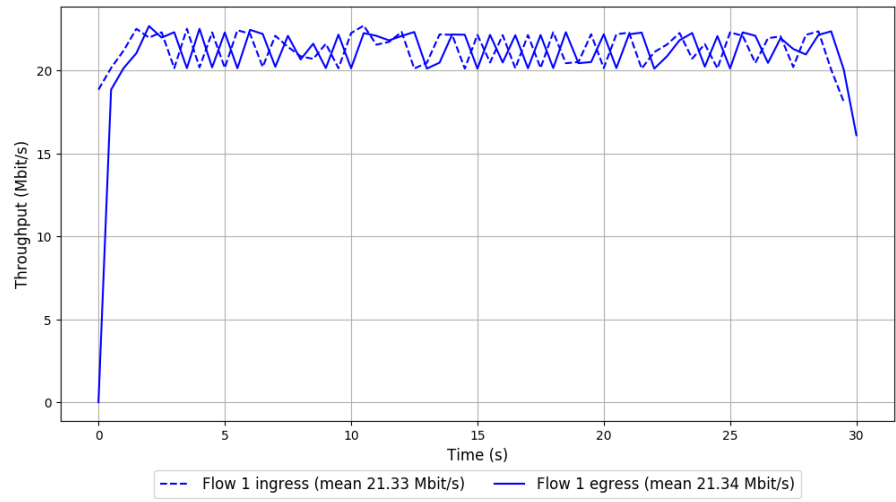
-- Flow 1:

Average throughput: 21.34 Mbit/s

95th percentile per-packet one-way delay: 1.154 ms

Loss rate: 0.16%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-07-25 03:45:37

End at: 2018-07-25 03:46:07

Local clock offset: 3.332 ms

Remote clock offset: 1.141 ms

Below is generated by plot.py at 2018-07-25 05:41:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 20.52 Mbit/s

95th percentile per-packet one-way delay: 1.038 ms

Loss rate: 0.16%

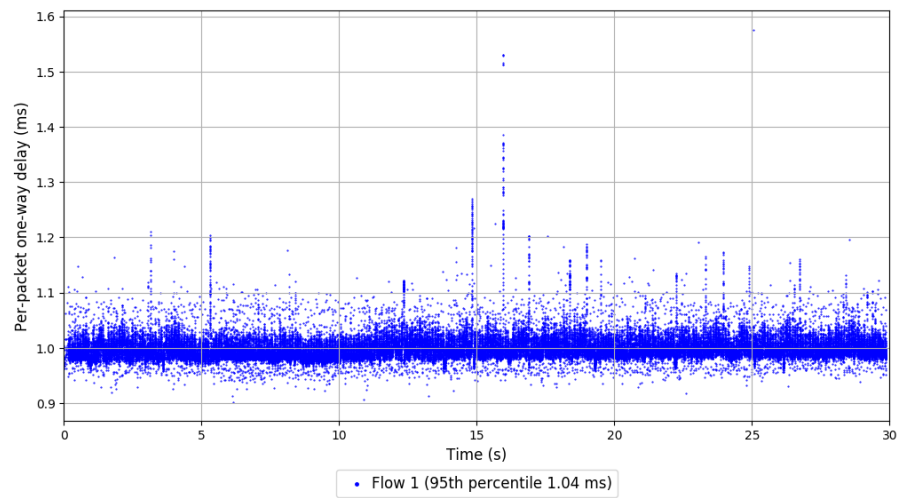
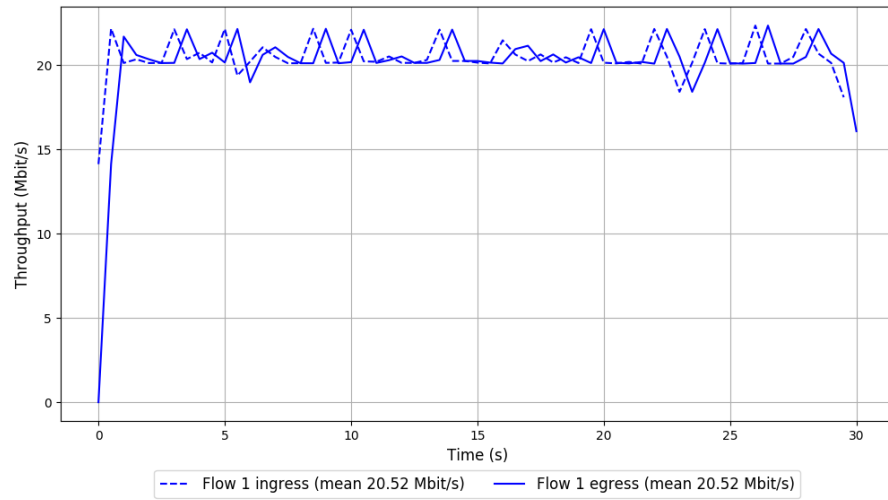
-- Flow 1:

Average throughput: 20.52 Mbit/s

95th percentile per-packet one-way delay: 1.038 ms

Loss rate: 0.16%

Run 10: Report of Sprout — Data Link

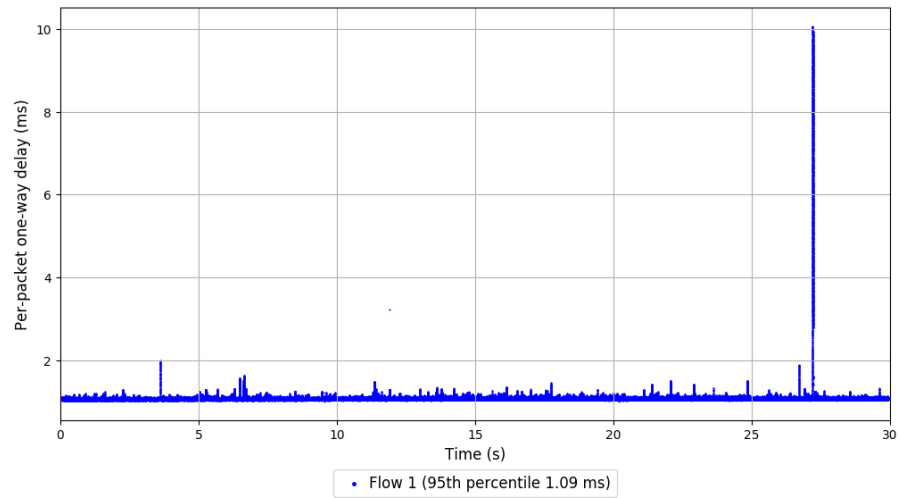
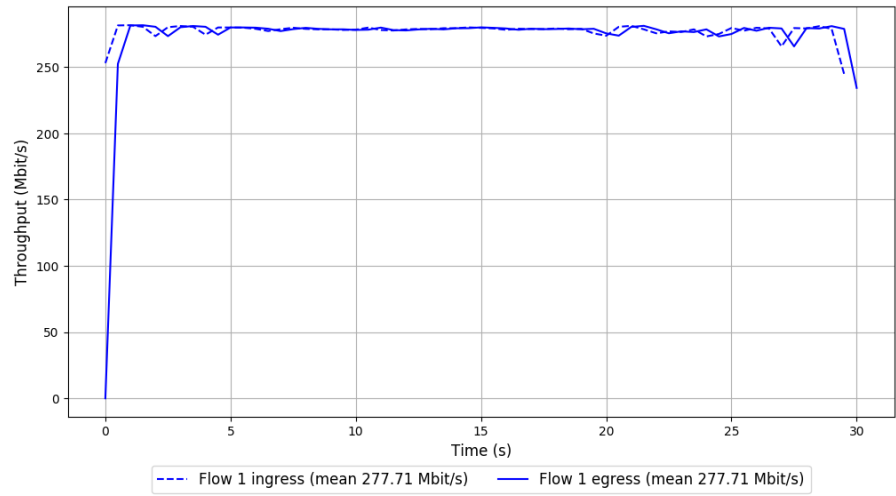


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-07-24 23:54:04
End at: 2018-07-24 23:54:34
Local clock offset: 3.382 ms
Remote clock offset: 0.812 ms

# Below is generated by plot.py at 2018-07-25 05:43:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 277.71 Mbit/s
95th percentile per-packet one-way delay: 1.089 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 277.71 Mbit/s
95th percentile per-packet one-way delay: 1.089 ms
Loss rate: 0.07%
```

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



Run 2: Statistics of TaoVA-100x

Start at: 2018-07-25 00:19:51

End at: 2018-07-25 00:20:21

Local clock offset: 3.364 ms

Remote clock offset: 1.426 ms

Below is generated by plot.py at 2018-07-25 05:43:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 275.38 Mbit/s

95th percentile per-packet one-way delay: 0.982 ms

Loss rate: 0.06%

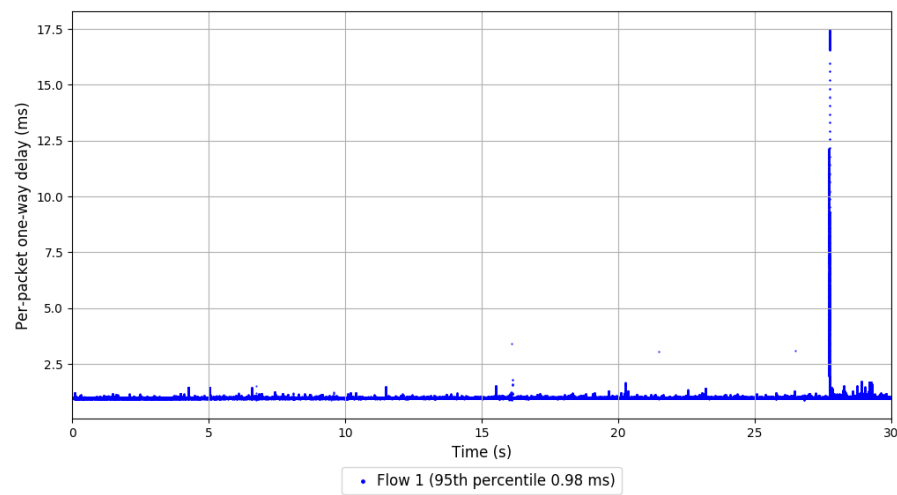
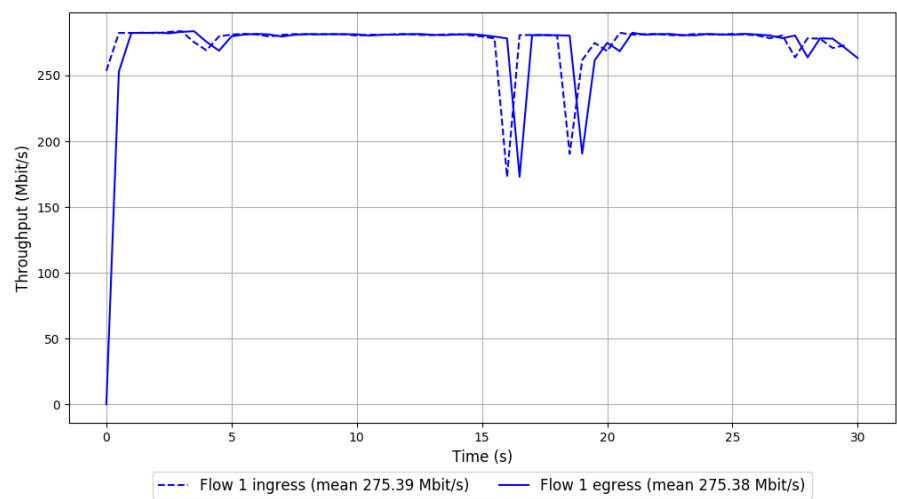
-- Flow 1:

Average throughput: 275.38 Mbit/s

95th percentile per-packet one-way delay: 0.982 ms

Loss rate: 0.06%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-07-25 00:45:40

End at: 2018-07-25 00:46:10

Local clock offset: 3.39 ms

Remote clock offset: 1.954 ms

Below is generated by plot.py at 2018-07-25 05:43:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 276.75 Mbit/s

95th percentile per-packet one-way delay: 1.038 ms

Loss rate: 0.04%

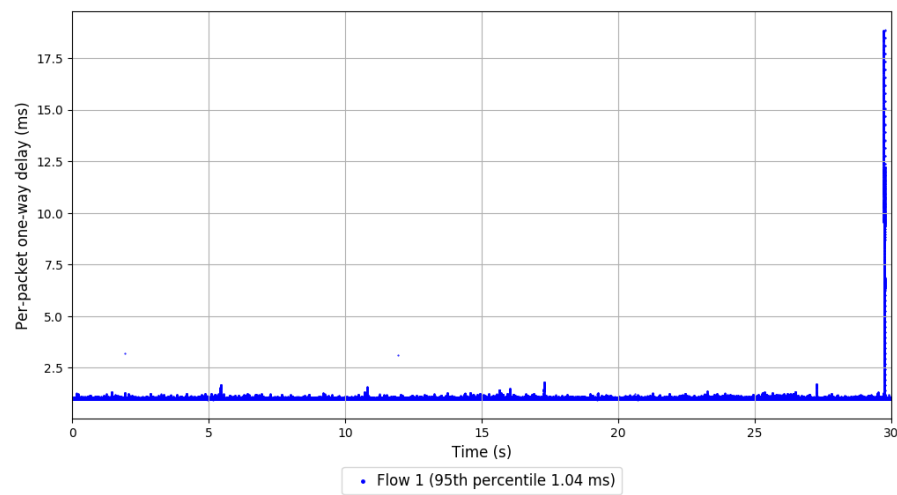
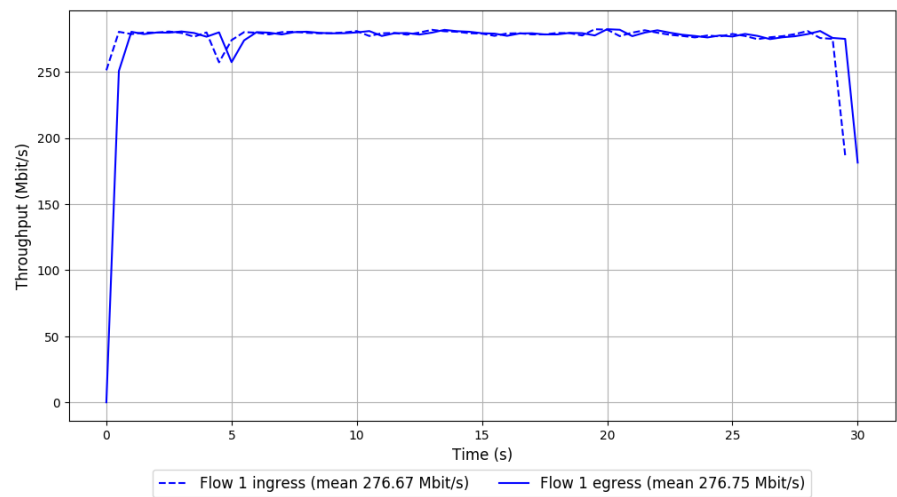
-- Flow 1:

Average throughput: 276.75 Mbit/s

95th percentile per-packet one-way delay: 1.038 ms

Loss rate: 0.04%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-07-25 01:11:39

End at: 2018-07-25 01:12:09

Local clock offset: 3.464 ms

Remote clock offset: 2.256 ms

Below is generated by plot.py at 2018-07-25 05:43:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 278.46 Mbit/s

95th percentile per-packet one-way delay: 0.977 ms

Loss rate: 0.06%

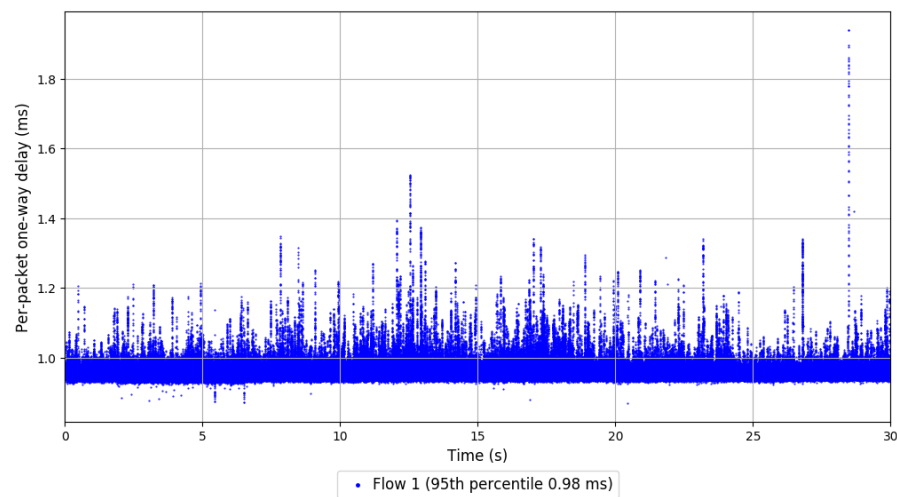
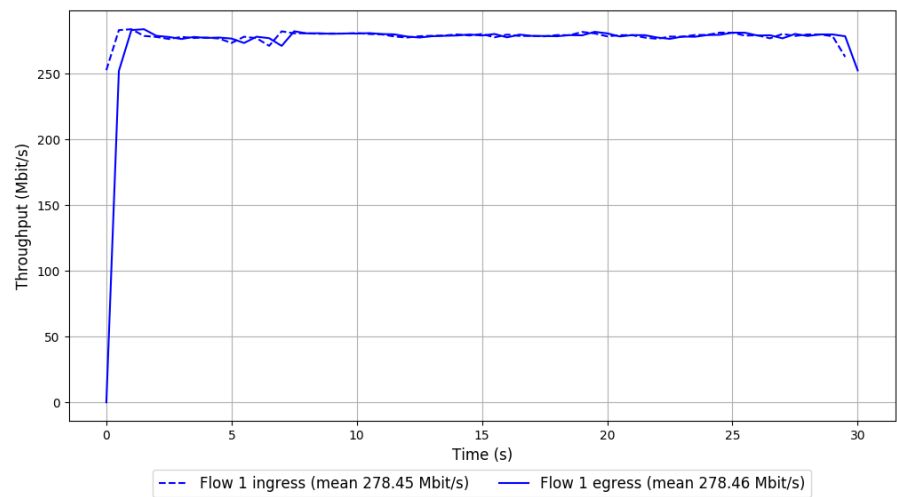
-- Flow 1:

Average throughput: 278.46 Mbit/s

95th percentile per-packet one-way delay: 0.977 ms

Loss rate: 0.06%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-07-25 01:37:27

End at: 2018-07-25 01:37:57

Local clock offset: 3.643 ms

Remote clock offset: 2.249 ms

Below is generated by plot.py at 2018-07-25 05:46:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 274.33 Mbit/s

95th percentile per-packet one-way delay: 1.099 ms

Loss rate: 0.07%

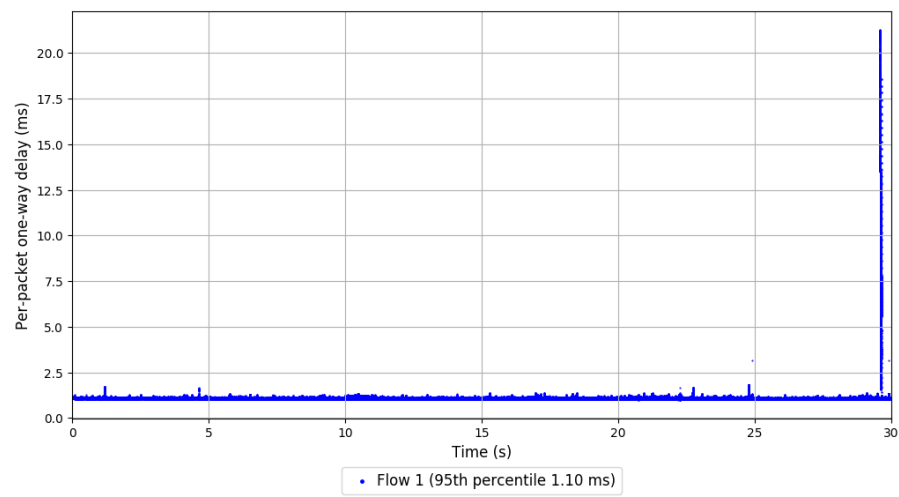
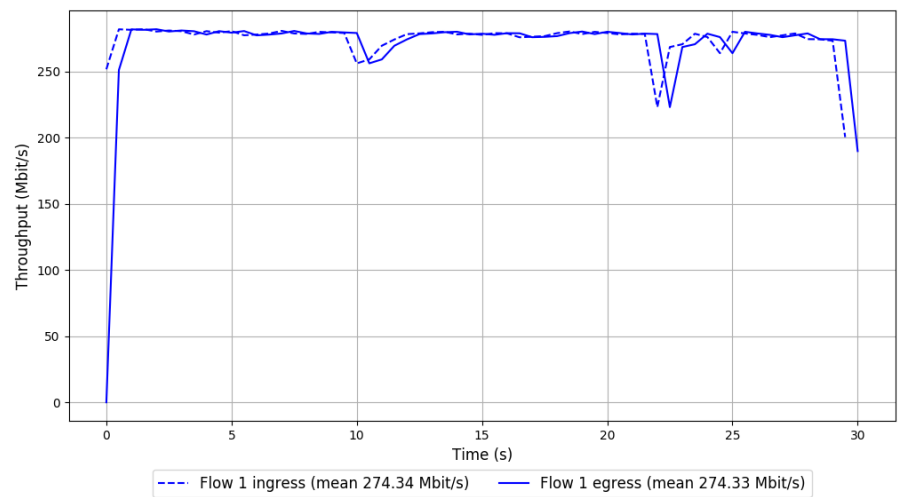
-- Flow 1:

Average throughput: 274.33 Mbit/s

95th percentile per-packet one-way delay: 1.099 ms

Loss rate: 0.07%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-07-25 02:03:21

End at: 2018-07-25 02:03:51

Local clock offset: 3.385 ms

Remote clock offset: 2.064 ms

Below is generated by plot.py at 2018-07-25 05:46:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 265.76 Mbit/s

95th percentile per-packet one-way delay: 0.957 ms

Loss rate: 0.03%

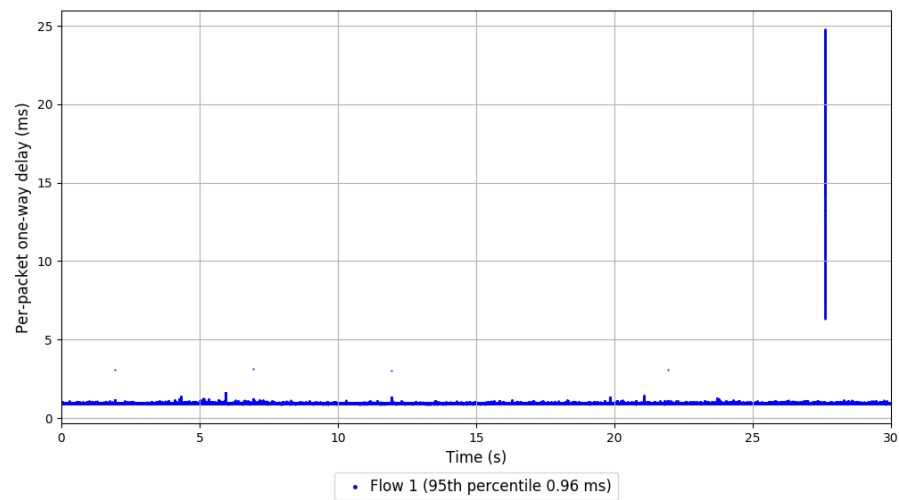
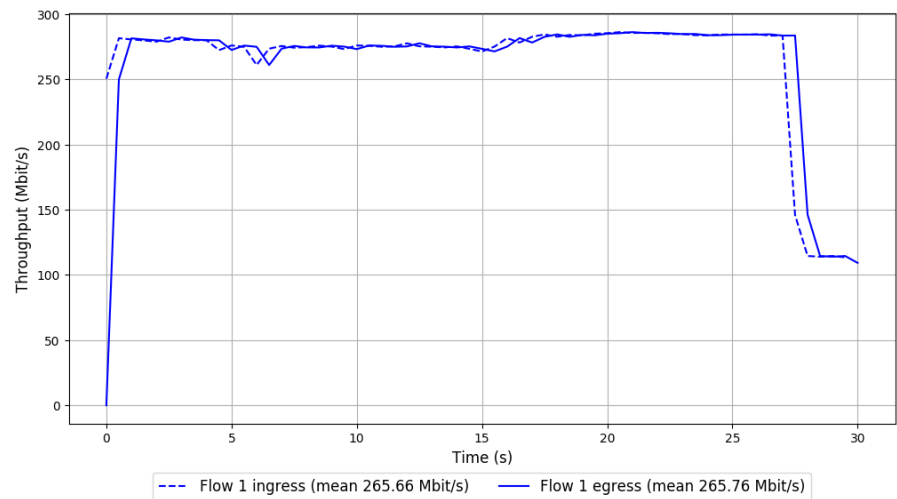
-- Flow 1:

Average throughput: 265.76 Mbit/s

95th percentile per-packet one-way delay: 0.957 ms

Loss rate: 0.03%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-07-25 02:29:14

End at: 2018-07-25 02:29:44

Local clock offset: 3.145 ms

Remote clock offset: 1.568 ms

Below is generated by plot.py at 2018-07-25 05:47:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 275.34 Mbit/s

95th percentile per-packet one-way delay: 1.096 ms

Loss rate: 0.06%

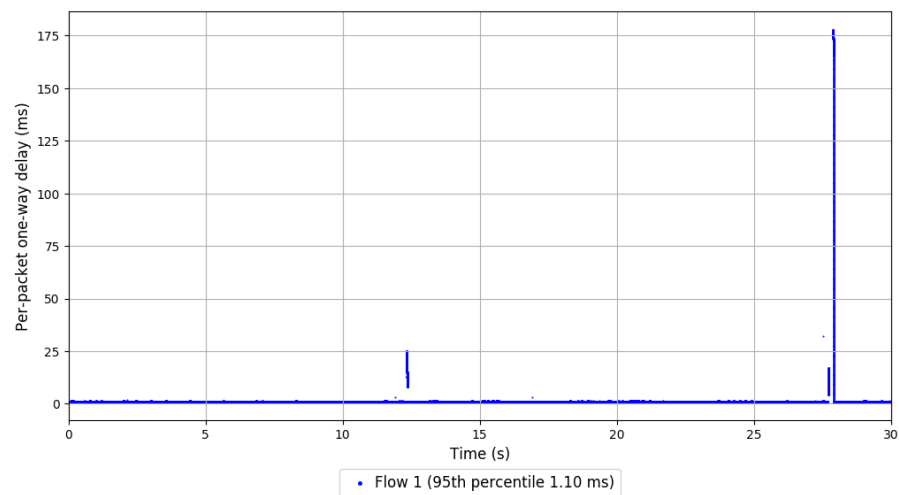
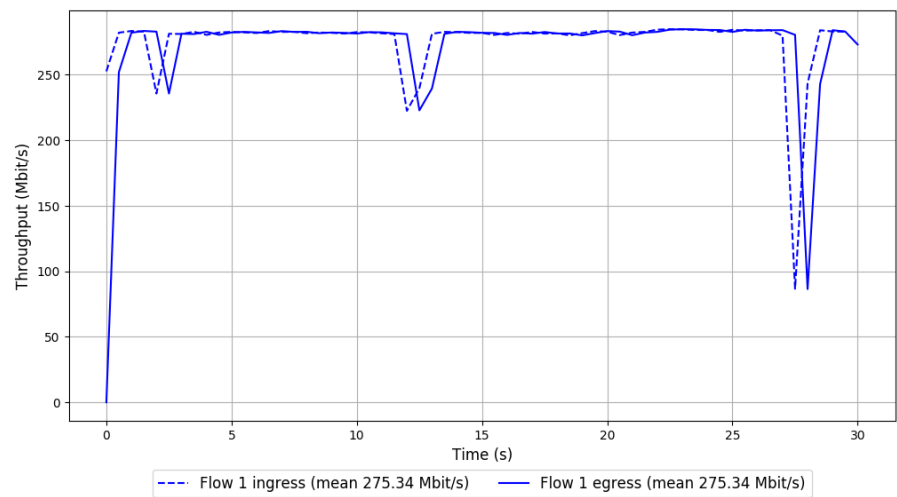
-- Flow 1:

Average throughput: 275.34 Mbit/s

95th percentile per-packet one-way delay: 1.096 ms

Loss rate: 0.06%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-07-25 02:55:12

End at: 2018-07-25 02:55:42

Local clock offset: 2.971 ms

Remote clock offset: 1.221 ms

Below is generated by plot.py at 2018-07-25 05:47:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 280.35 Mbit/s

95th percentile per-packet one-way delay: 0.968 ms

Loss rate: 0.06%

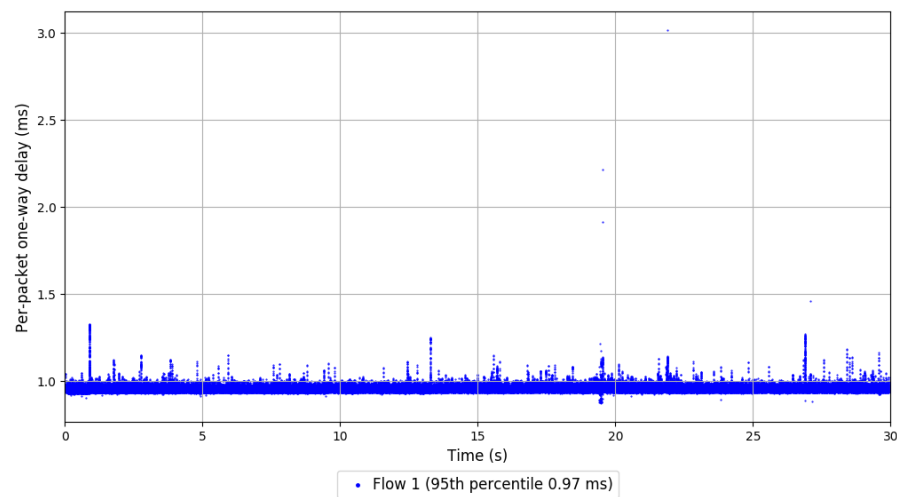
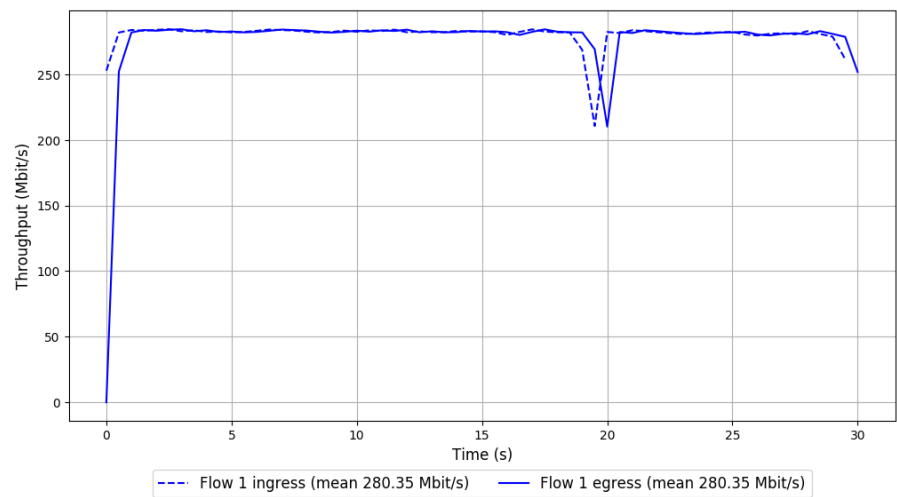
-- Flow 1:

Average throughput: 280.35 Mbit/s

95th percentile per-packet one-way delay: 0.968 ms

Loss rate: 0.06%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-07-25 03:20:55

End at: 2018-07-25 03:21:25

Local clock offset: 3.452 ms

Remote clock offset: 0.994 ms

Below is generated by plot.py at 2018-07-25 05:49:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 278.44 Mbit/s

95th percentile per-packet one-way delay: 1.010 ms

Loss rate: 0.06%

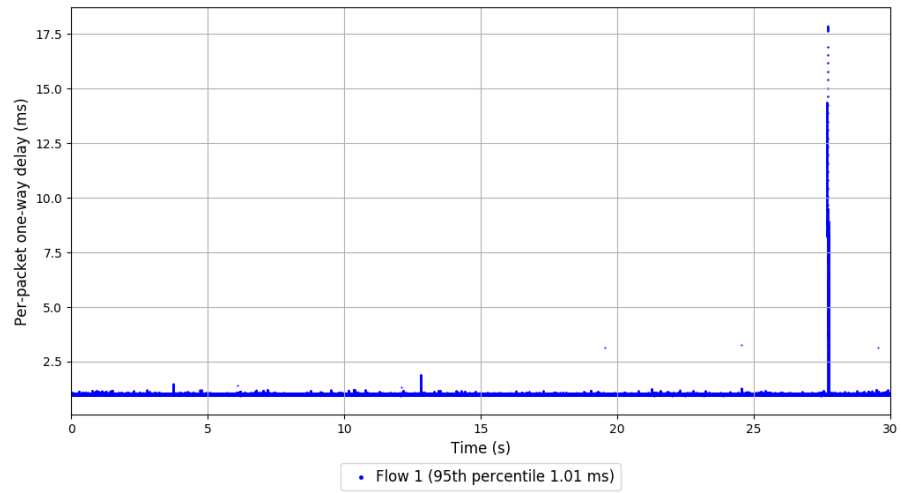
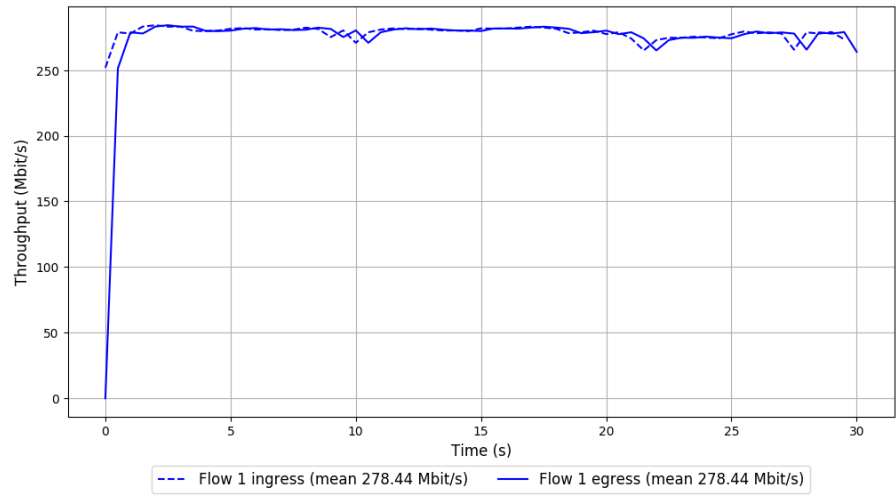
-- Flow 1:

Average throughput: 278.44 Mbit/s

95th percentile per-packet one-way delay: 1.010 ms

Loss rate: 0.06%

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



Run 10: Statistics of TaoVA-100x

Start at: 2018-07-25 03:46:55

End at: 2018-07-25 03:47:25

Local clock offset: 3.329 ms

Remote clock offset: 1.196 ms

Below is generated by plot.py at 2018-07-25 05:49:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 278.40 Mbit/s

95th percentile per-packet one-way delay: 0.955 ms

Loss rate: 0.07%

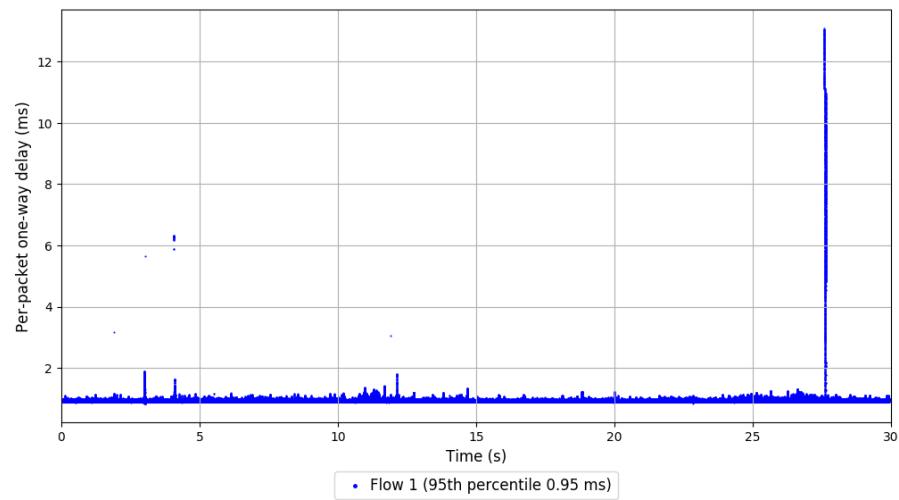
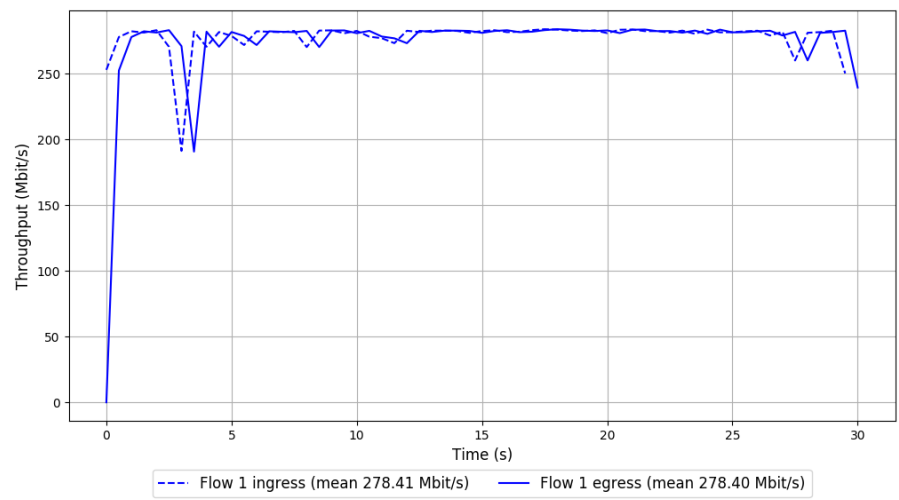
-- Flow 1:

Average throughput: 278.40 Mbit/s

95th percentile per-packet one-way delay: 0.955 ms

Loss rate: 0.07%

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



Run 1: Statistics of TCP Vegas

Start at: 2018-07-24 23:55:38

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

Local clock offset: 3.287 ms

Remote clock offset: 0.912 ms

Below is generated by plot.py at 2018-07-25 05:49:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 238.20 Mbit/s

95th percentile per-packet one-way delay: 1.054 ms

Loss rate: 0.07%

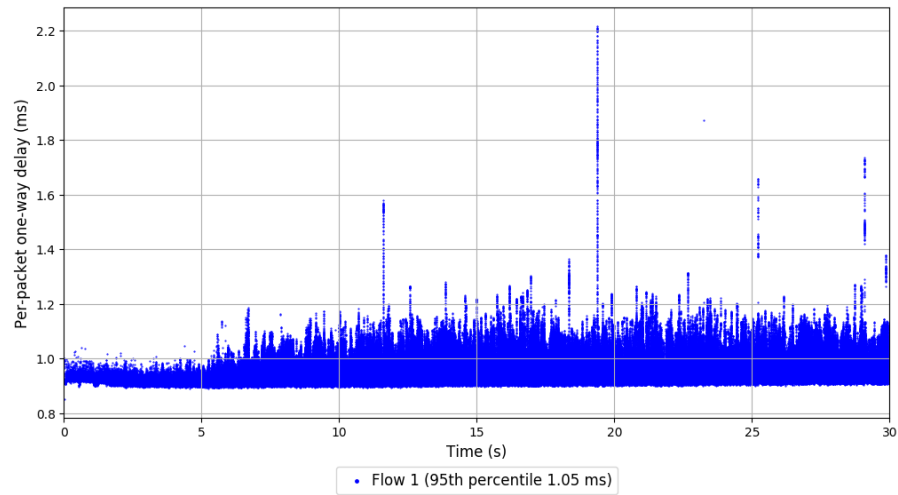
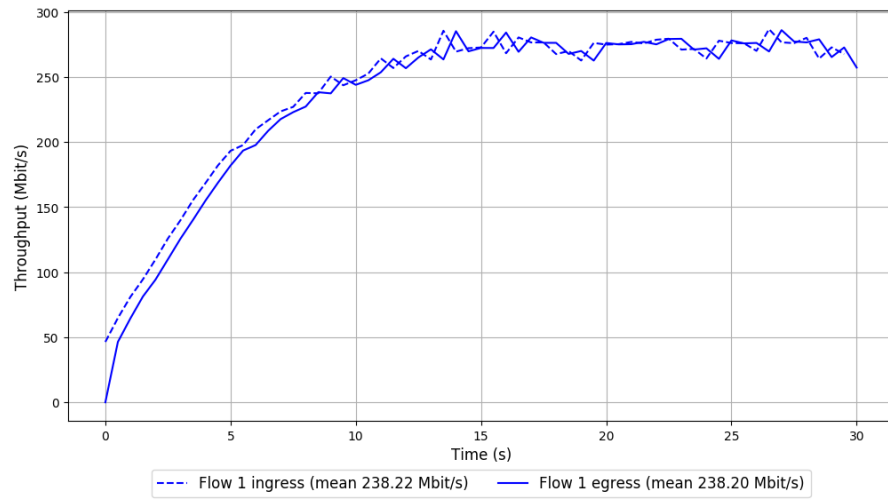
-- Flow 1:

Average throughput: 238.20 Mbit/s

95th percentile per-packet one-way delay: 1.054 ms

Loss rate: 0.07%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-07-25 00:21:25

End at: 2018-07-25 00:21:55

Local clock offset: 3.436 ms

Remote clock offset: 1.485 ms

Below is generated by plot.py at 2018-07-25 05:49:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 305.44 Mbit/s

95th percentile per-packet one-way delay: 1.182 ms

Loss rate: 0.05%

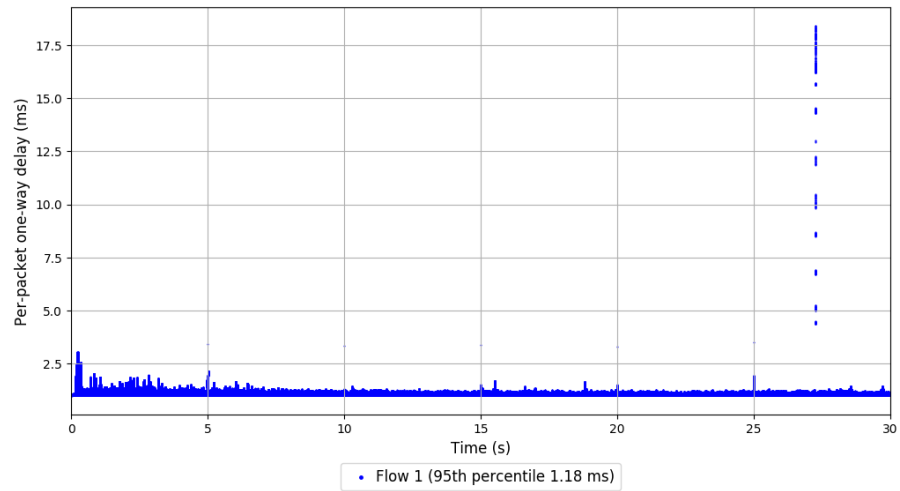
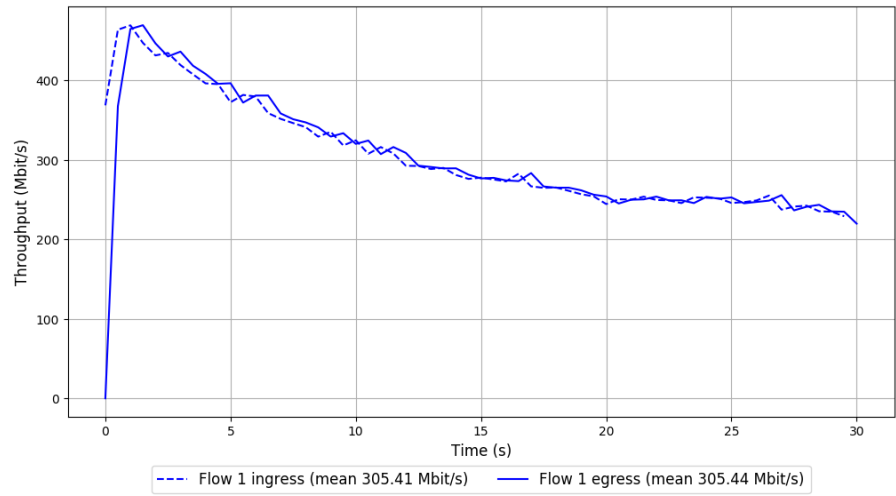
-- Flow 1:

Average throughput: 305.44 Mbit/s

95th percentile per-packet one-way delay: 1.182 ms

Loss rate: 0.05%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-07-25 00:47:14

End at: 2018-07-25 00:47:44

Local clock offset: 3.427 ms

Remote clock offset: 1.948 ms

Below is generated by plot.py at 2018-07-25 05:49:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 190.88 Mbit/s

95th percentile per-packet one-way delay: 1.300 ms

Loss rate: 0.01%

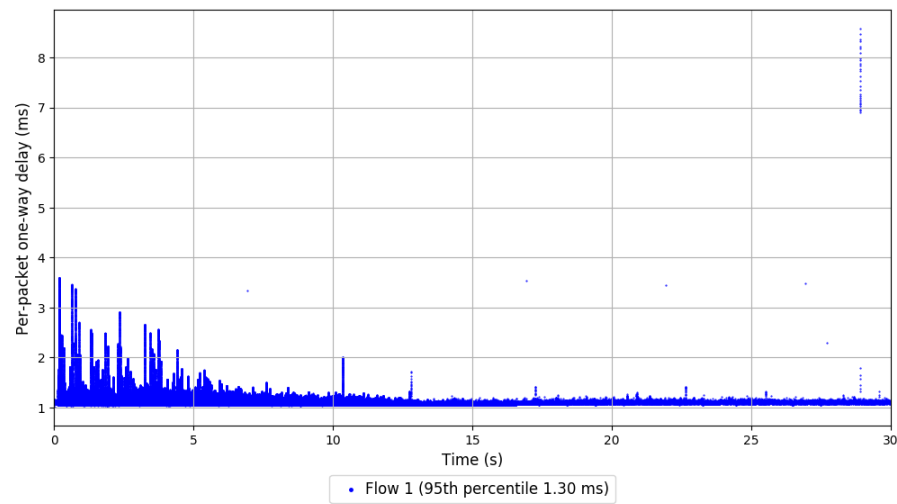
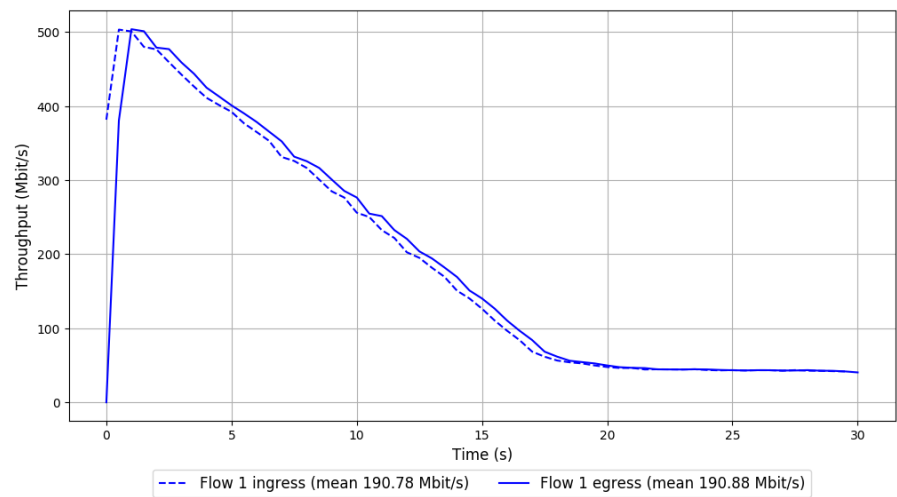
-- Flow 1:

Average throughput: 190.88 Mbit/s

95th percentile per-packet one-way delay: 1.300 ms

Loss rate: 0.01%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-07-25 01:13:12

End at: 2018-07-25 01:13:42

Local clock offset: 3.495 ms

Remote clock offset: 2.283 ms

Below is generated by plot.py at 2018-07-25 05:50:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 309.60 Mbit/s

95th percentile per-packet one-way delay: 1.151 ms

Loss rate: 0.06%

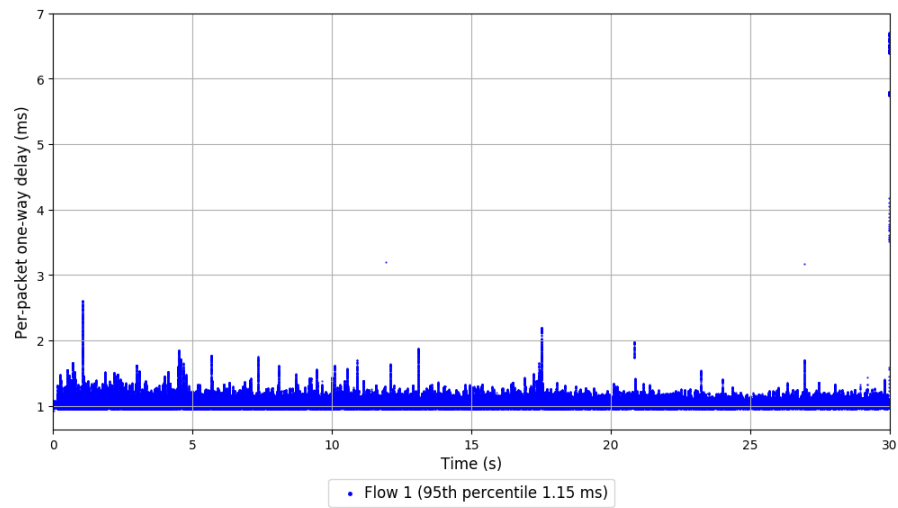
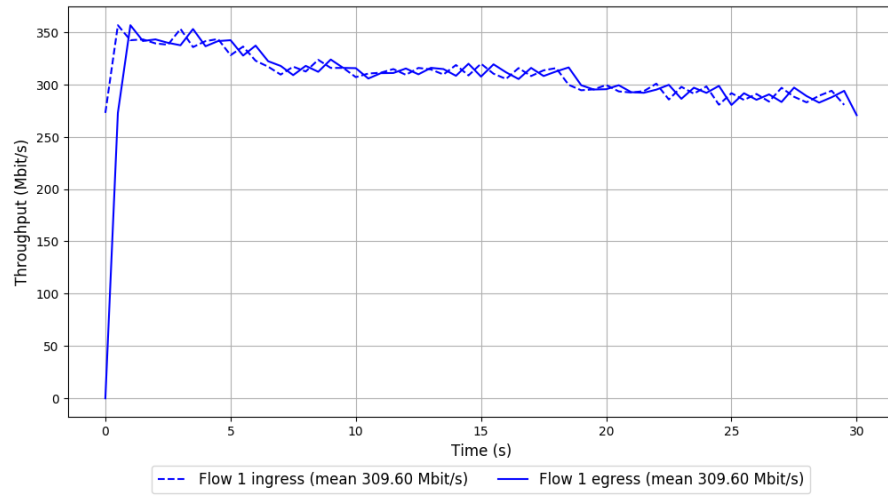
-- Flow 1:

Average throughput: 309.60 Mbit/s

95th percentile per-packet one-way delay: 1.151 ms

Loss rate: 0.06%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-07-25 01:39:01

End at: 2018-07-25 01:39:31

Local clock offset: 3.585 ms

Remote clock offset: 2.251 ms

Below is generated by plot.py at 2018-07-25 05:50:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 310.97 Mbit/s

95th percentile per-packet one-way delay: 1.189 ms

Loss rate: 0.06%

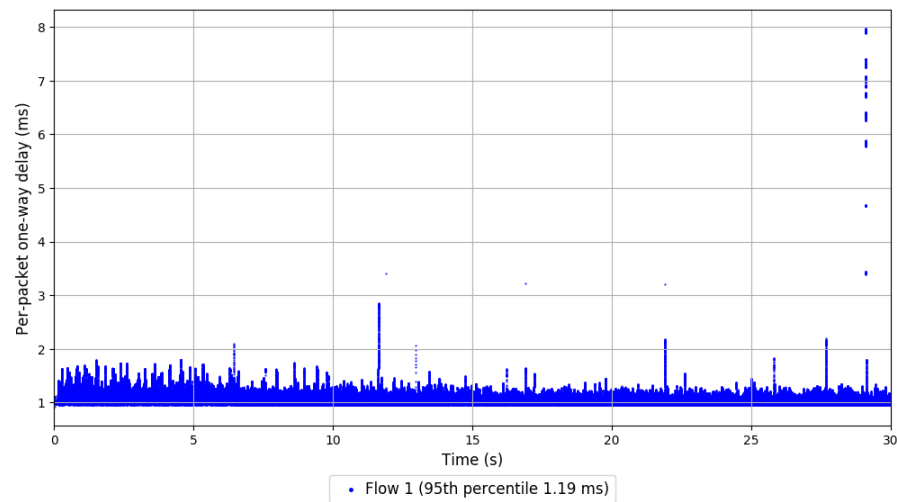
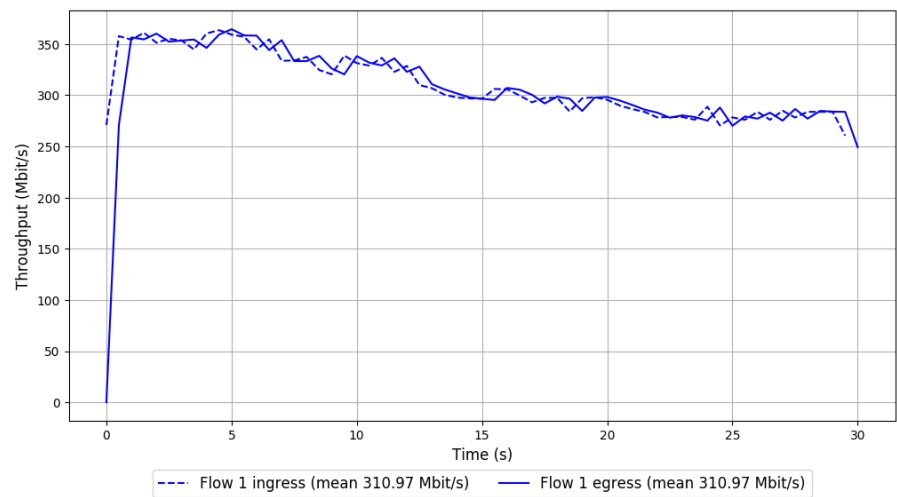
-- Flow 1:

Average throughput: 310.97 Mbit/s

95th percentile per-packet one-way delay: 1.189 ms

Loss rate: 0.06%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-07-25 02:04:54

End at: 2018-07-25 02:05:24

Local clock offset: 3.501 ms

Remote clock offset: 2.042 ms

Below is generated by plot.py at 2018-07-25 05:50:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 311.73 Mbit/s

95th percentile per-packet one-way delay: 1.236 ms

Loss rate: 0.06%

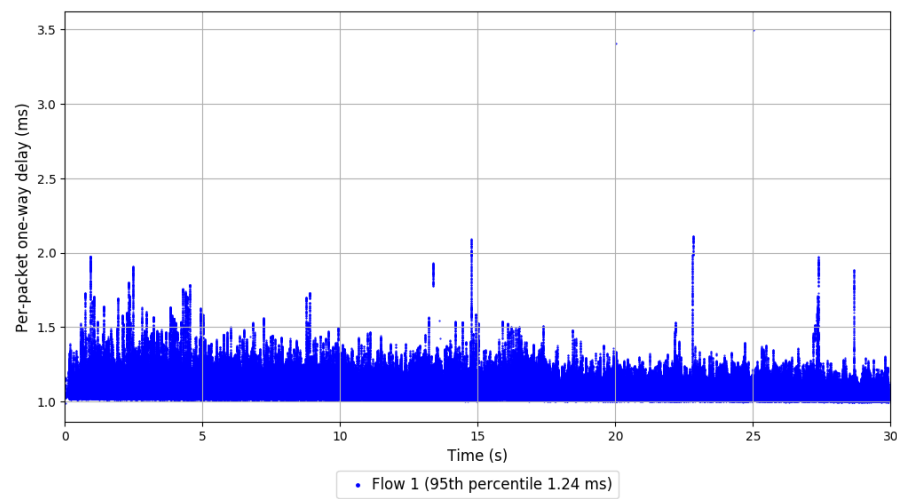
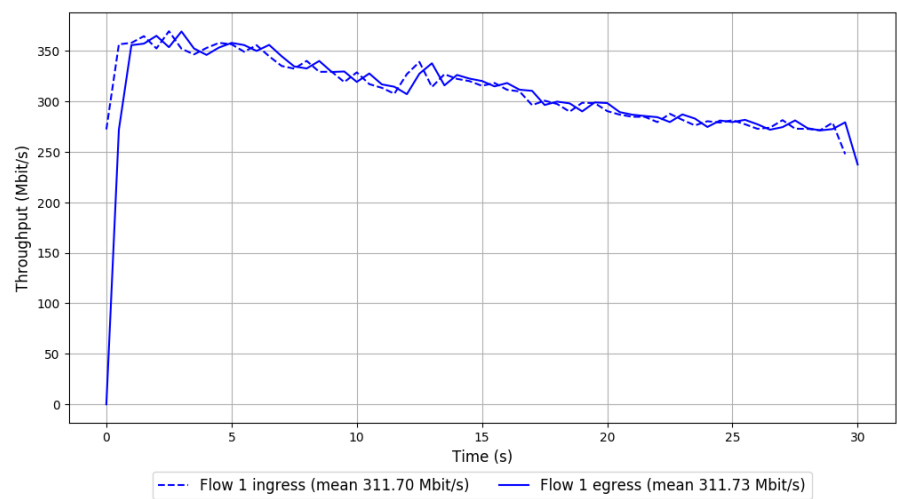
-- Flow 1:

Average throughput: 311.73 Mbit/s

95th percentile per-packet one-way delay: 1.236 ms

Loss rate: 0.06%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-07-25 02:30:47

End at: 2018-07-25 02:31:17

Local clock offset: 3.019 ms

Remote clock offset: 1.537 ms

Below is generated by plot.py at 2018-07-25 05:51:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 382.88 Mbit/s

95th percentile per-packet one-way delay: 1.200 ms

Loss rate: 0.06%

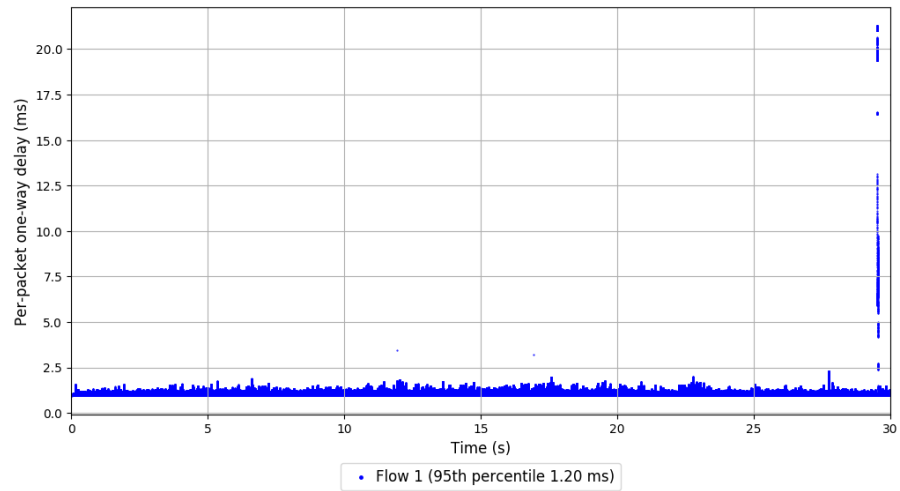
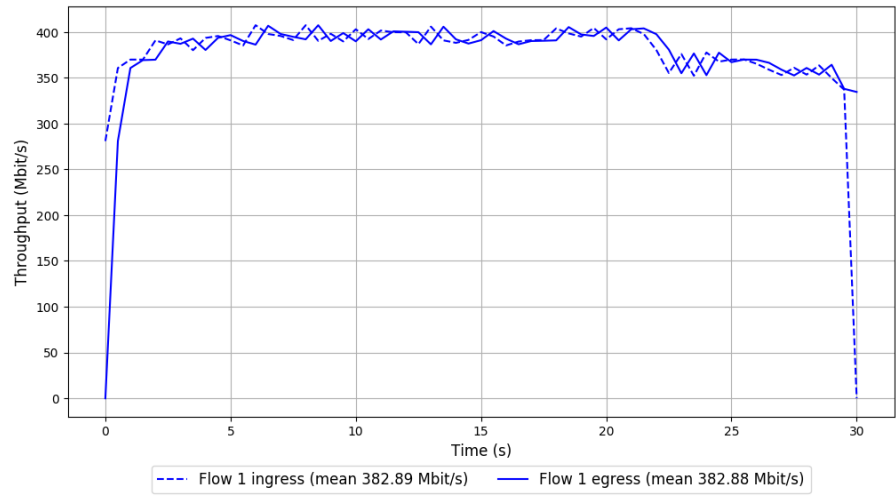
-- Flow 1:

Average throughput: 382.88 Mbit/s

95th percentile per-packet one-way delay: 1.200 ms

Loss rate: 0.06%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-07-25 02:56:46

End at: 2018-07-25 02:57:16

Local clock offset: 2.998 ms

Remote clock offset: 1.188 ms

Below is generated by plot.py at 2018-07-25 05:51:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 173.33 Mbit/s

95th percentile per-packet one-way delay: 1.269 ms

Loss rate: 0.01%

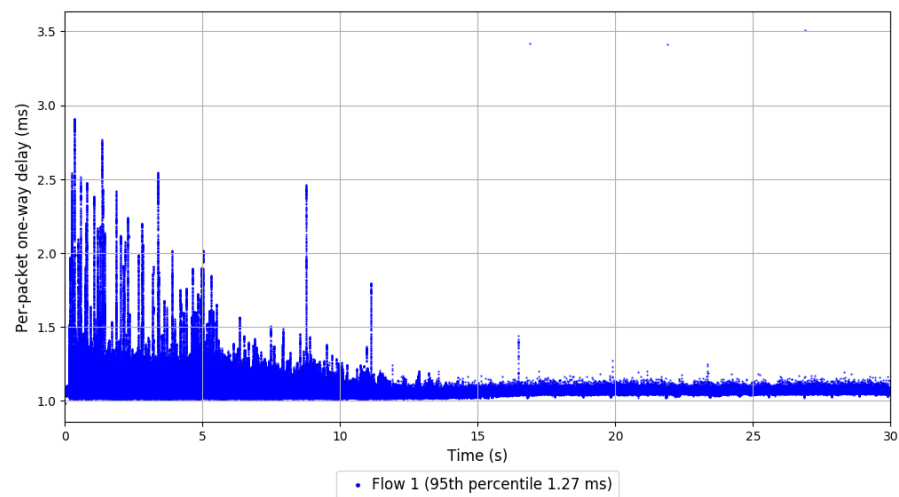
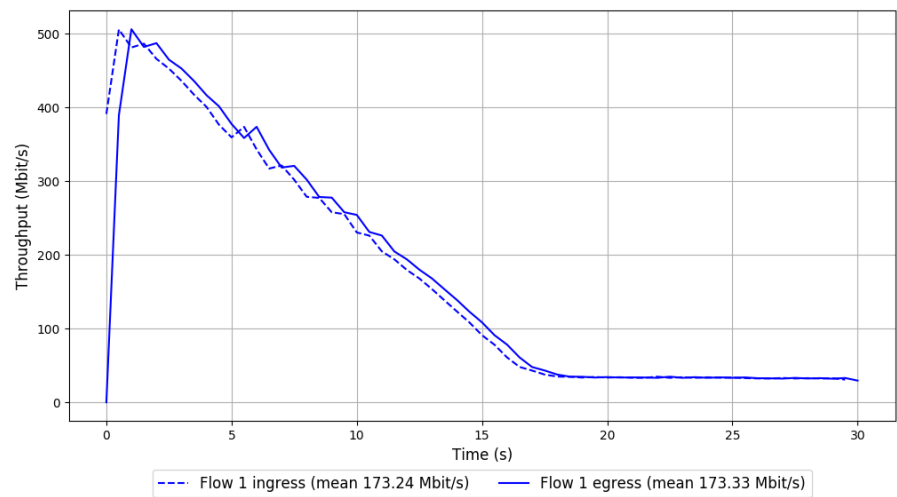
-- Flow 1:

Average throughput: 173.33 Mbit/s

95th percentile per-packet one-way delay: 1.269 ms

Loss rate: 0.01%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-07-25 03:22:28

End at: 2018-07-25 03:22:58

Local clock offset: 3.543 ms

Remote clock offset: 1.009 ms

Below is generated by plot.py at 2018-07-25 05:51:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 258.03 Mbit/s

95th percentile per-packet one-way delay: 1.230 ms

Loss rate: 0.08%

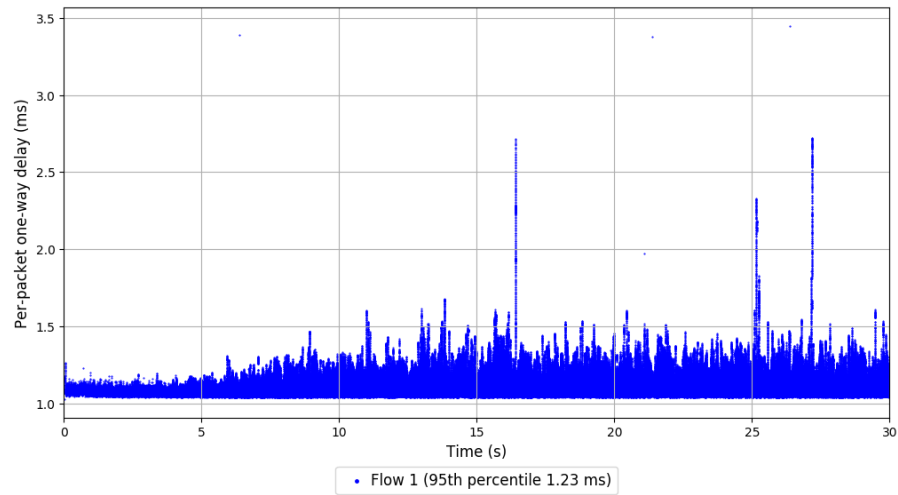
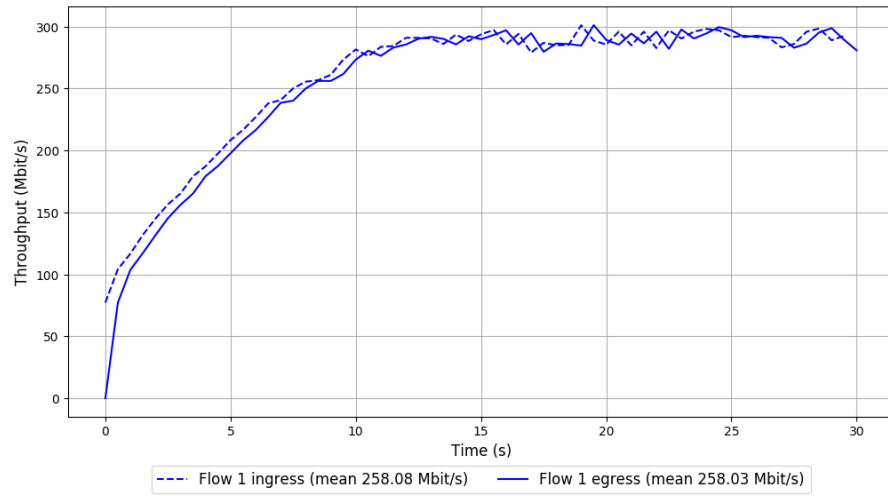
-- Flow 1:

Average throughput: 258.03 Mbit/s

95th percentile per-packet one-way delay: 1.230 ms

Loss rate: 0.08%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-07-25 03:48:29

End at: 2018-07-25 03:48:59

Local clock offset: 3.414 ms

Remote clock offset: 1.202 ms

Below is generated by plot.py at 2018-07-25 05:52:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 233.08 Mbit/s

95th percentile per-packet one-way delay: 1.199 ms

Loss rate: 0.08%

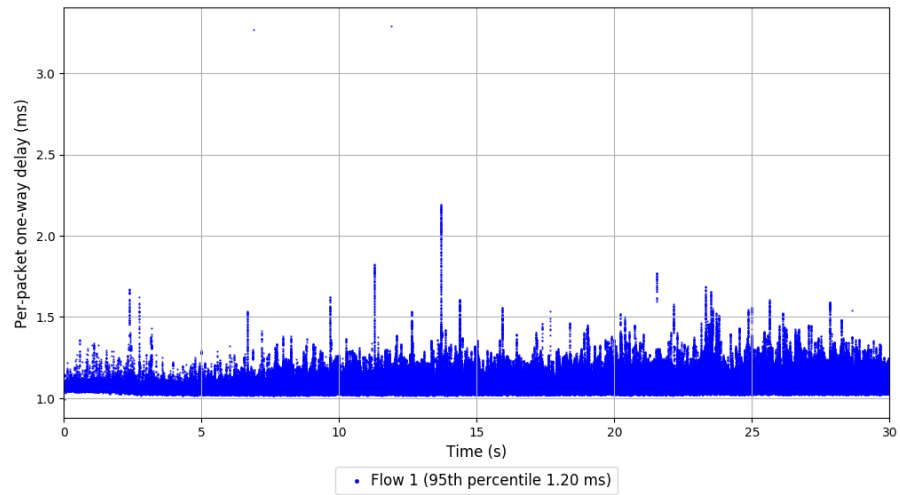
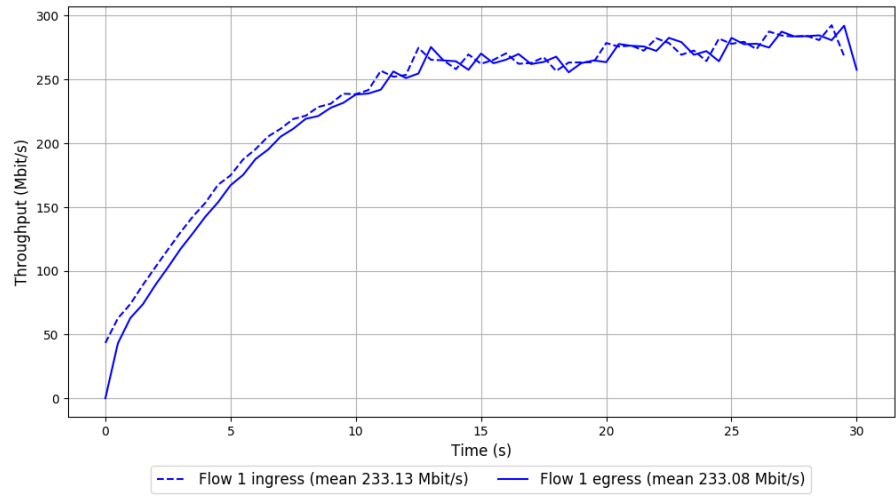
-- Flow 1:

Average throughput: 233.08 Mbit/s

95th percentile per-packet one-way delay: 1.199 ms

Loss rate: 0.08%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-07-24 23:49:37

End at: 2018-07-24 23:50:07

Local clock offset: 3.408 ms

Remote clock offset: 0.687 ms

Below is generated by plot.py at 2018-07-25 05:52:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 266.09 Mbit/s

95th percentile per-packet one-way delay: 4.498 ms

Loss rate: 0.02%

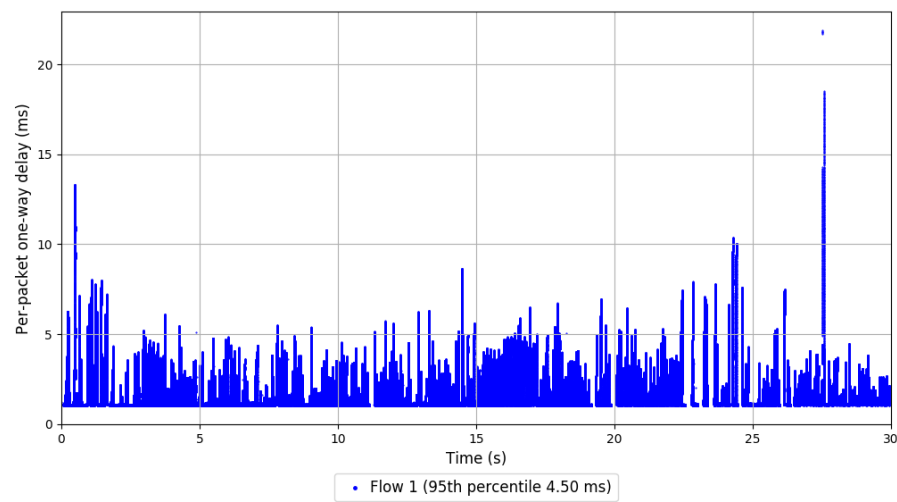
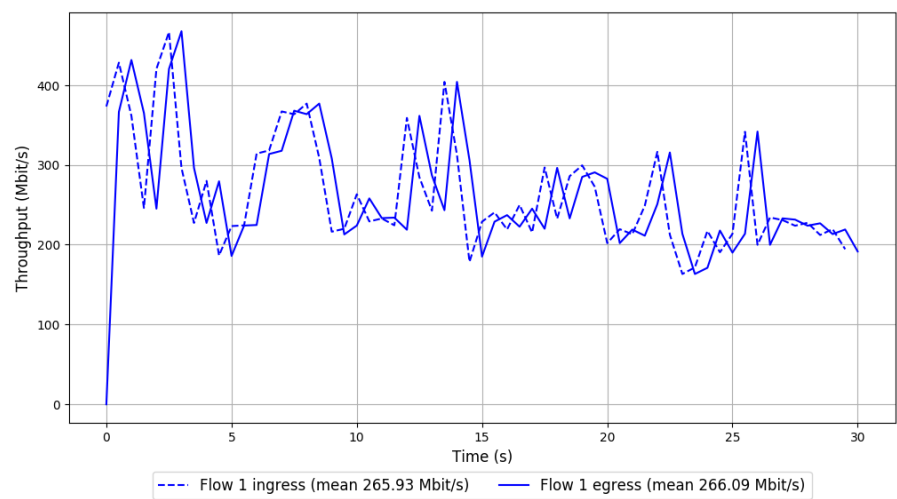
-- Flow 1:

Average throughput: 266.09 Mbit/s

95th percentile per-packet one-way delay: 4.498 ms

Loss rate: 0.02%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-07-25 00:15:25

End at: 2018-07-25 00:15:55

Local clock offset: 3.478 ms

Remote clock offset: 1.296 ms

Below is generated by plot.py at 2018-07-25 05:52:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 272.35 Mbit/s

95th percentile per-packet one-way delay: 5.116 ms

Loss rate: 0.06%

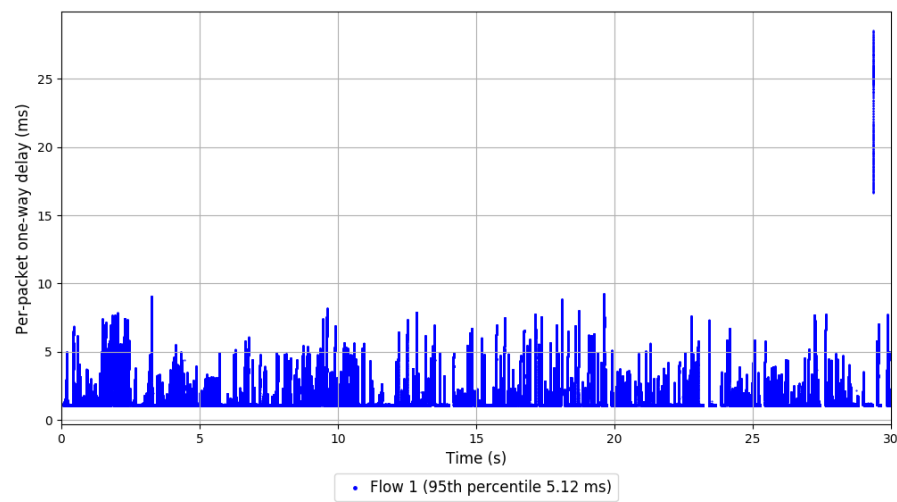
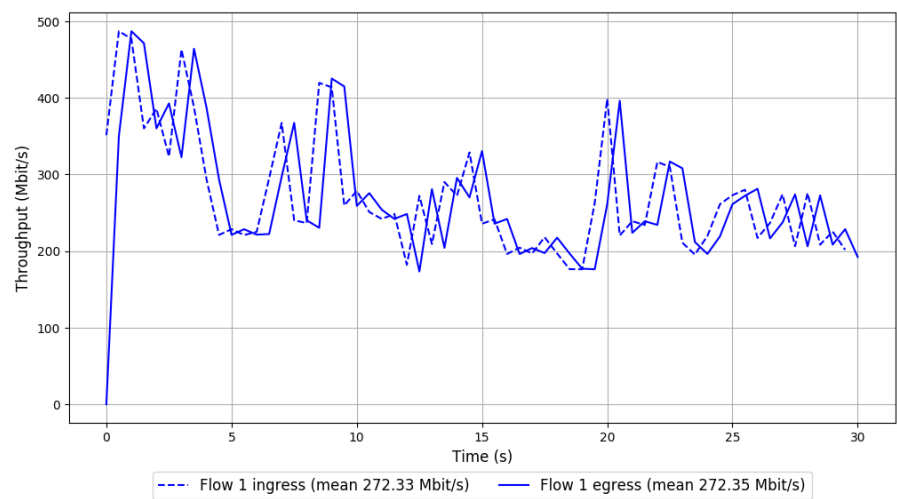
-- Flow 1:

Average throughput: 272.35 Mbit/s

95th percentile per-packet one-way delay: 5.116 ms

Loss rate: 0.06%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-07-25 00:41:12

End at: 2018-07-25 00:41:42

Local clock offset: 3.386 ms

Remote clock offset: 1.875 ms

Below is generated by plot.py at 2018-07-25 05:53:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 271.01 Mbit/s

95th percentile per-packet one-way delay: 6.092 ms

Loss rate: 0.12%

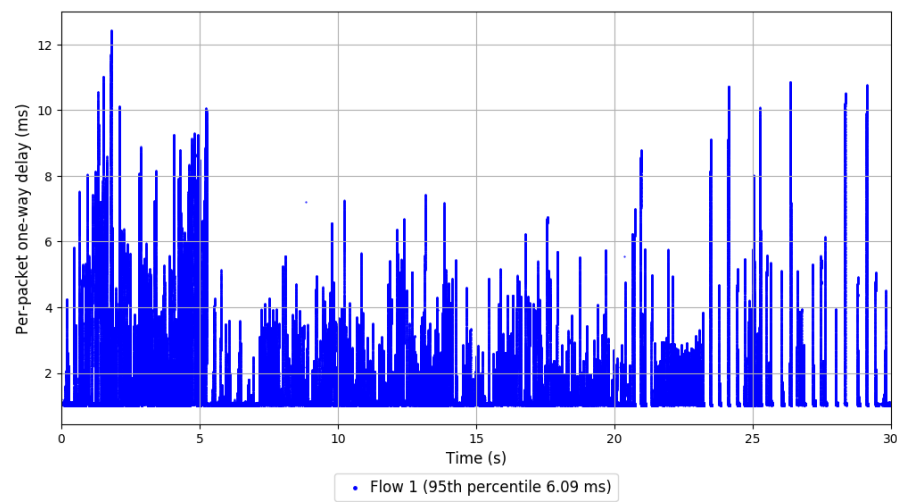
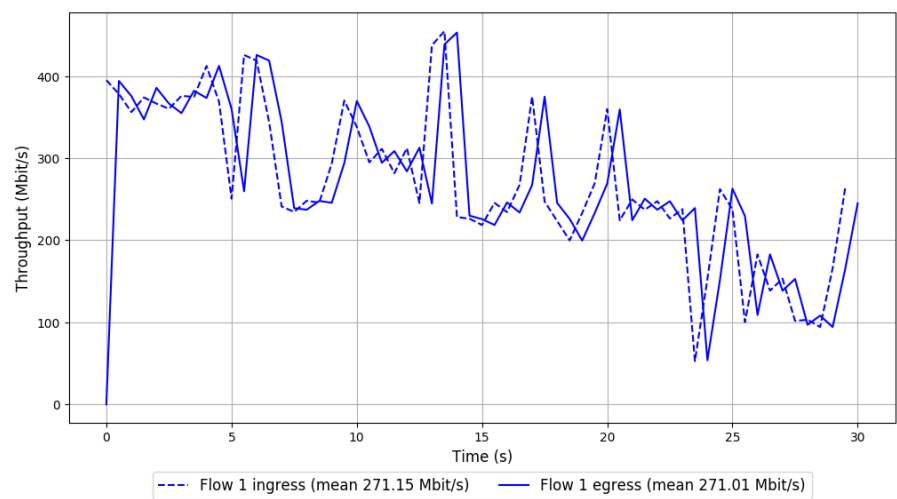
-- Flow 1:

Average throughput: 271.01 Mbit/s

95th percentile per-packet one-way delay: 6.092 ms

Loss rate: 0.12%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-07-25 01:07:05

End at: 2018-07-25 01:07:35

Local clock offset: 3.487 ms

Remote clock offset: 2.261 ms

Below is generated by plot.py at 2018-07-25 05:54:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 381.60 Mbit/s

95th percentile per-packet one-way delay: 8.374 ms

Loss rate: 0.01%

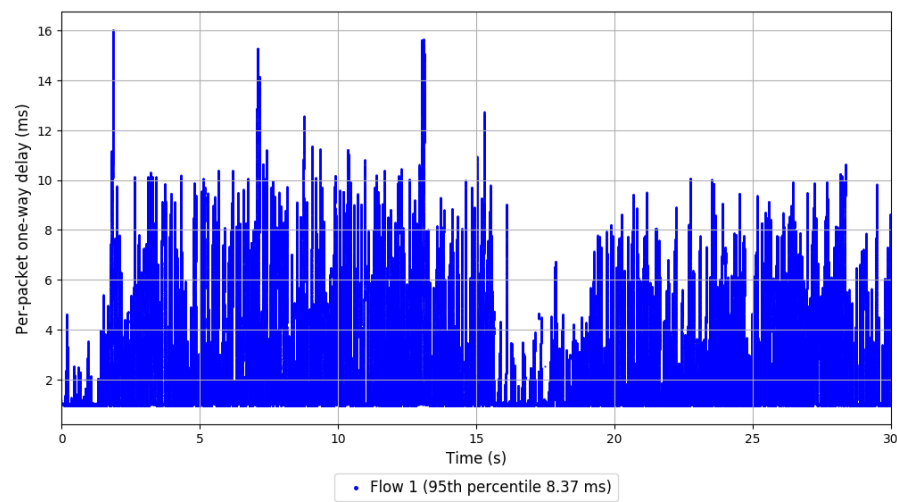
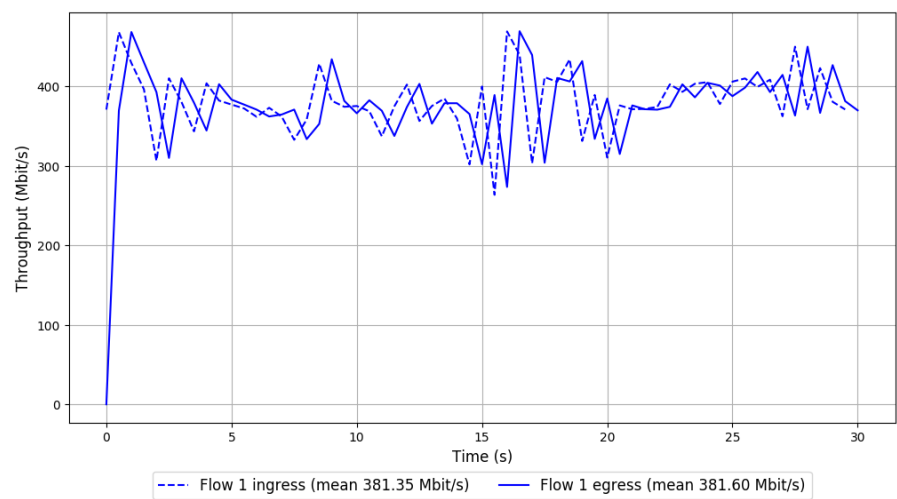
-- Flow 1:

Average throughput: 381.60 Mbit/s

95th percentile per-packet one-way delay: 8.374 ms

Loss rate: 0.01%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-07-25 01:33:00

End at: 2018-07-25 01:33:30

Local clock offset: 3.451 ms

Remote clock offset: 2.373 ms

Below is generated by plot.py at 2018-07-25 05:54:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 229.44 Mbit/s

95th percentile per-packet one-way delay: 6.193 ms

Loss rate: 0.00%

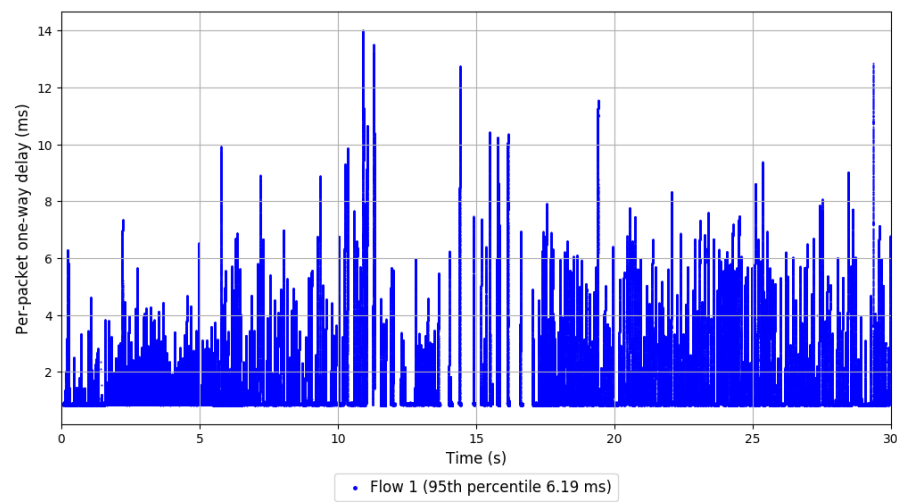
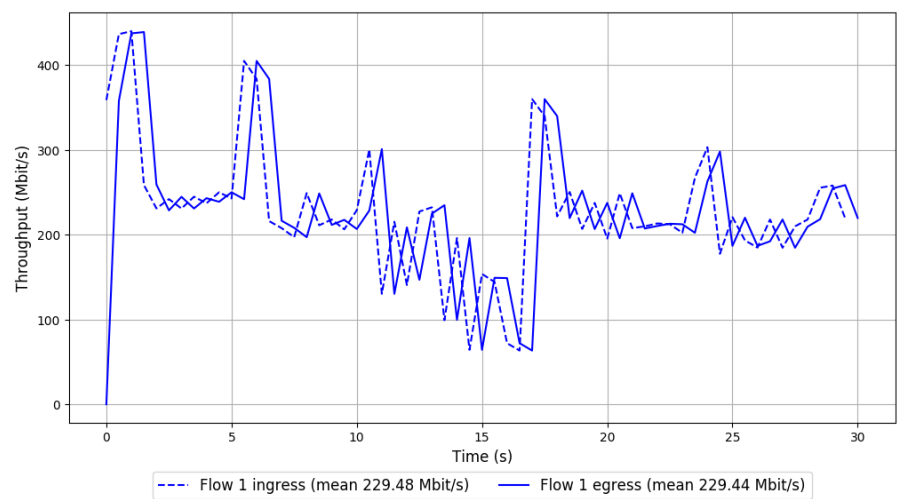
-- Flow 1:

Average throughput: 229.44 Mbit/s

95th percentile per-packet one-way delay: 6.193 ms

Loss rate: 0.00%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-07-25 01:58:48

End at: 2018-07-25 01:59:18

Local clock offset: 3.501 ms

Remote clock offset: 2.124 ms

Below is generated by plot.py at 2018-07-25 05:55:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 376.75 Mbit/s

95th percentile per-packet one-way delay: 8.858 ms

Loss rate: 0.07%

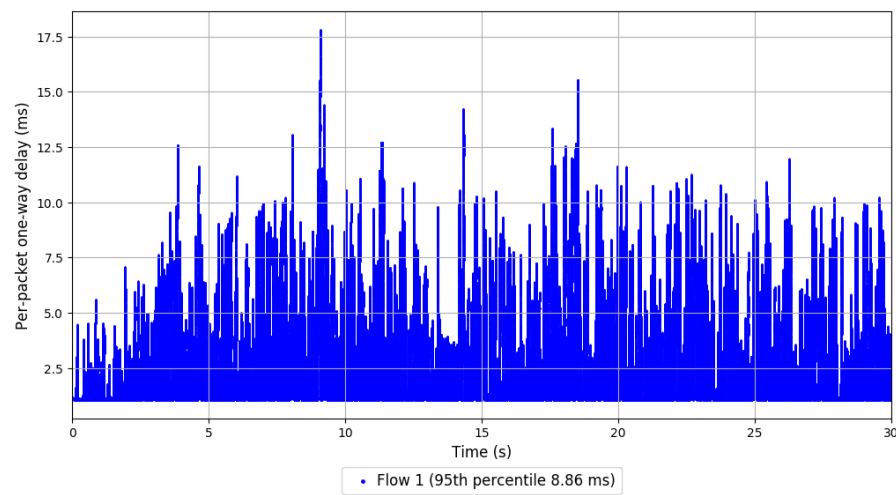
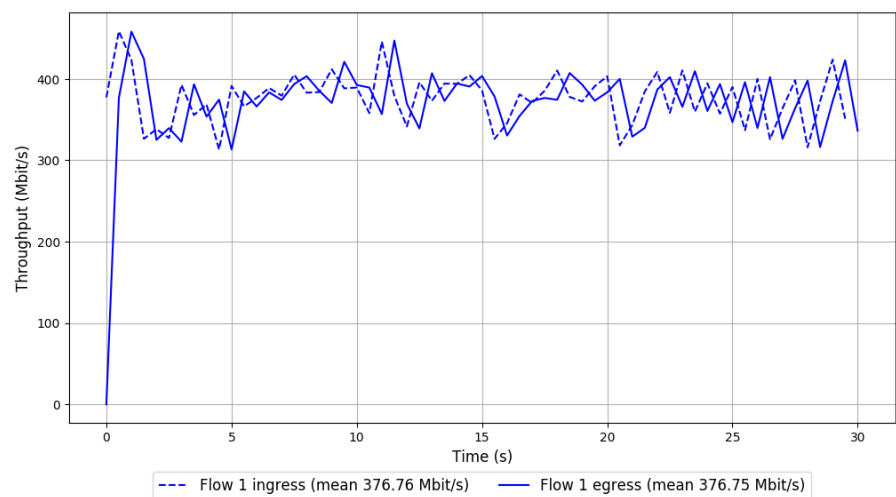
-- Flow 1:

Average throughput: 376.75 Mbit/s

95th percentile per-packet one-way delay: 8.858 ms

Loss rate: 0.07%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-07-25 02:24:43

End at: 2018-07-25 02:25:13

Local clock offset: 3.272 ms

Remote clock offset: 1.624 ms

Below is generated by plot.py at 2018-07-25 05:55:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 360.41 Mbit/s

95th percentile per-packet one-way delay: 5.185 ms

Loss rate: 0.10%

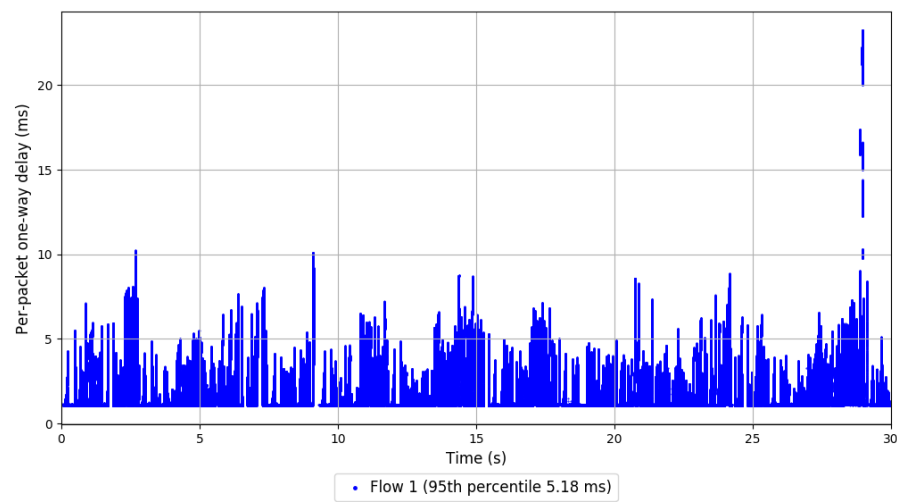
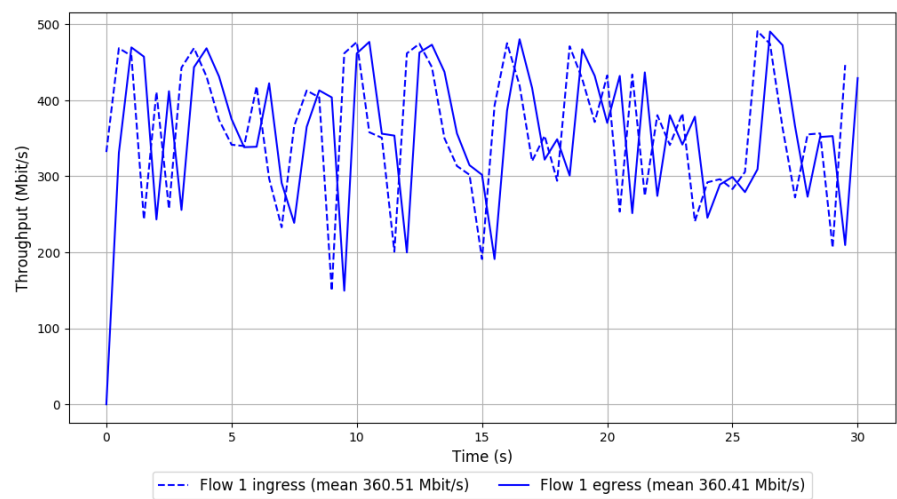
-- Flow 1:

Average throughput: 360.41 Mbit/s

95th percentile per-packet one-way delay: 5.185 ms

Loss rate: 0.10%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-07-25 02:50:39

End at: 2018-07-25 02:51:09

Local clock offset: 3.134 ms

Remote clock offset: 1.277 ms

Below is generated by plot.py at 2018-07-25 05:56:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 356.08 Mbit/s

95th percentile per-packet one-way delay: 7.606 ms

Loss rate: 0.01%

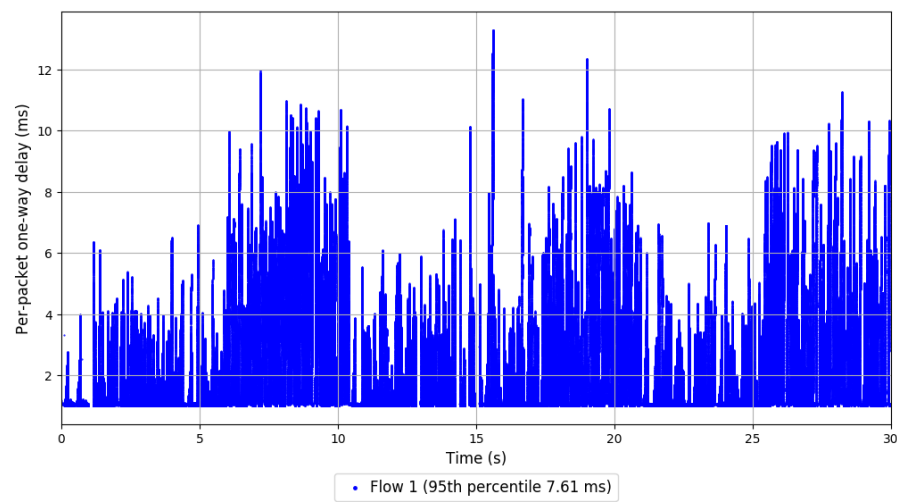
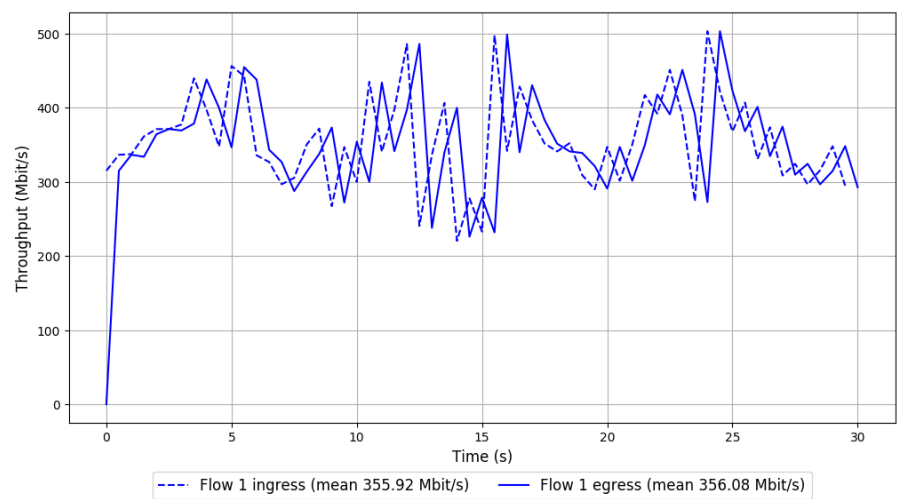
-- Flow 1:

Average throughput: 356.08 Mbit/s

95th percentile per-packet one-way delay: 7.606 ms

Loss rate: 0.01%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-07-25 03:16:26

End at: 2018-07-25 03:16:56

Local clock offset: 3.435 ms

Remote clock offset: 1.088 ms

Below is generated by plot.py at 2018-07-25 05:56:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 254.62 Mbit/s

95th percentile per-packet one-way delay: 6.962 ms

Loss rate: 0.14%

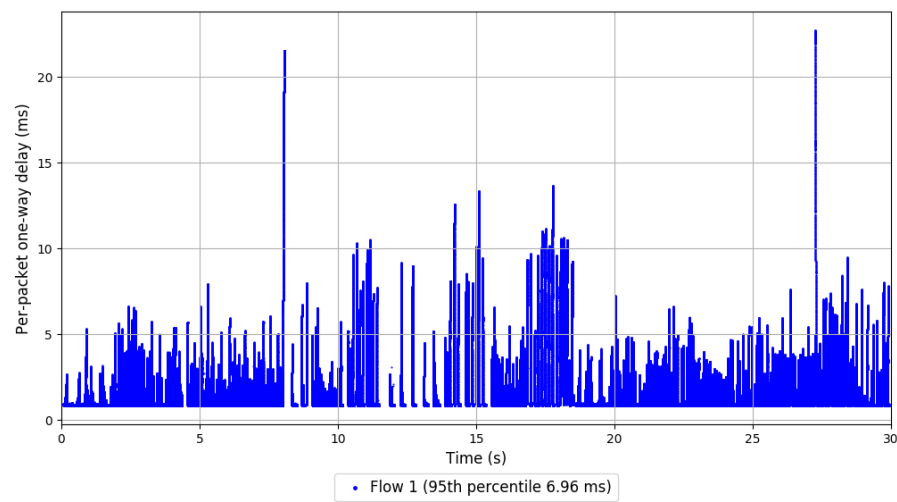
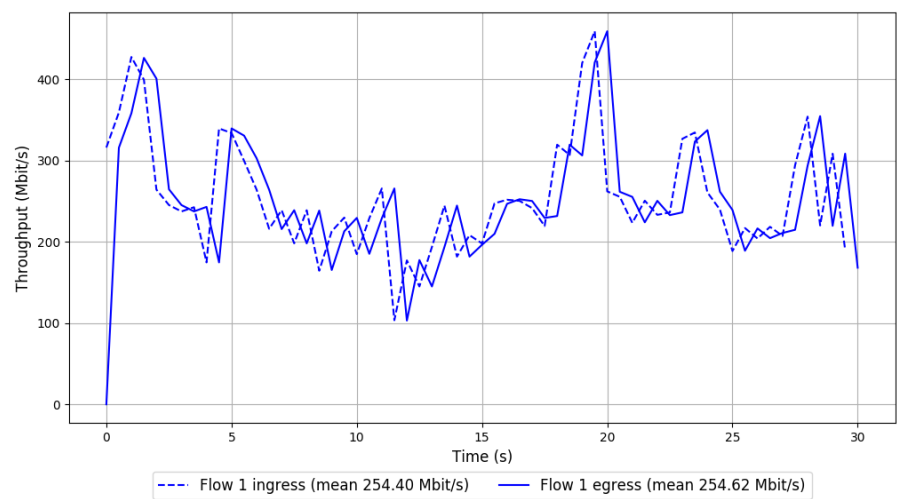
-- Flow 1:

Average throughput: 254.62 Mbit/s

95th percentile per-packet one-way delay: 6.962 ms

Loss rate: 0.14%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-07-25 03:42:25

End at: 2018-07-25 03:42:55

Local clock offset: 3.48 ms

Remote clock offset: 1.105 ms

Below is generated by plot.py at 2018-07-25 05:56:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 332.00 Mbit/s

95th percentile per-packet one-way delay: 4.117 ms

Loss rate: 0.09%

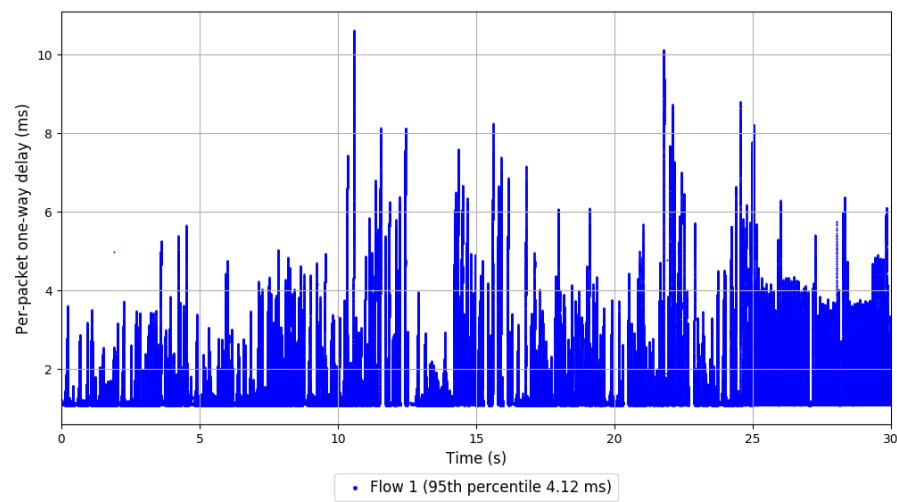
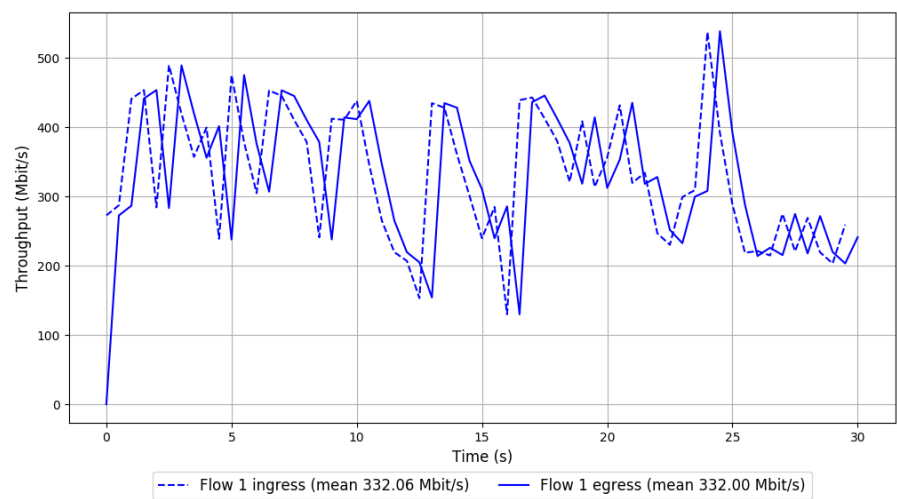
-- Flow 1:

Average throughput: 332.00 Mbit/s

95th percentile per-packet one-way delay: 4.117 ms

Loss rate: 0.09%

Run 10: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2018-07-24 23:57:03

End at: 2018-07-24 23:57:33

Local clock offset: 3.269 ms

Remote clock offset: 0.954 ms

Below is generated by plot.py at 2018-07-25 05:58:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 447.20 Mbit/s

95th percentile per-packet one-way delay: 0.921 ms

Loss rate: 0.07%

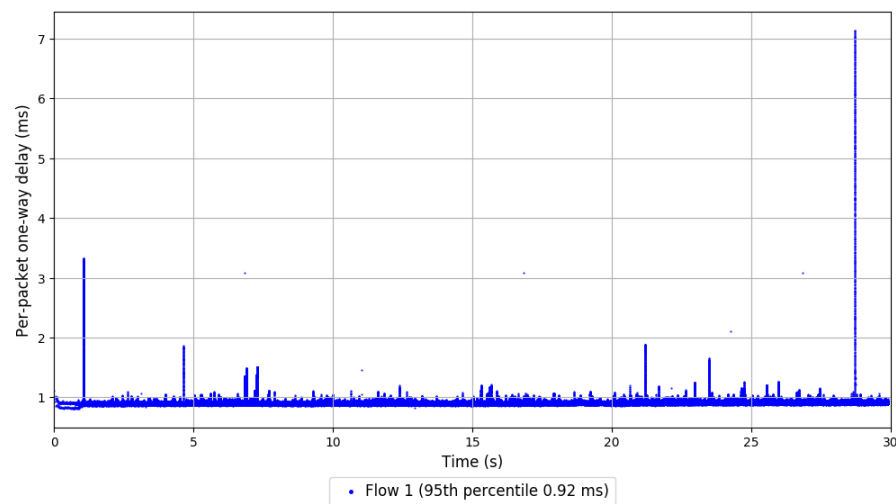
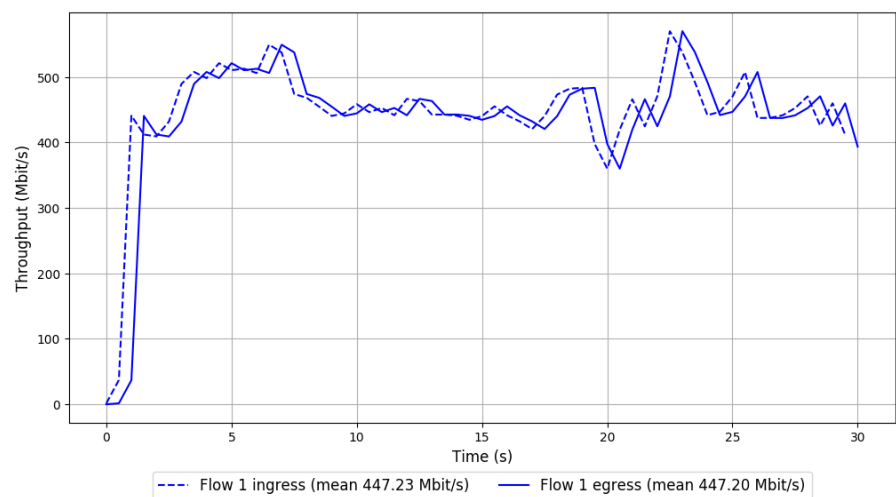
-- Flow 1:

Average throughput: 447.20 Mbit/s

95th percentile per-packet one-way delay: 0.921 ms

Loss rate: 0.07%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2018-07-25 00:22:51

End at: 2018-07-25 00:23:21

Local clock offset: 3.33 ms

Remote clock offset: 1.489 ms

Below is generated by plot.py at 2018-07-25 05:58:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 429.95 Mbit/s

95th percentile per-packet one-way delay: 0.982 ms

Loss rate: 0.07%

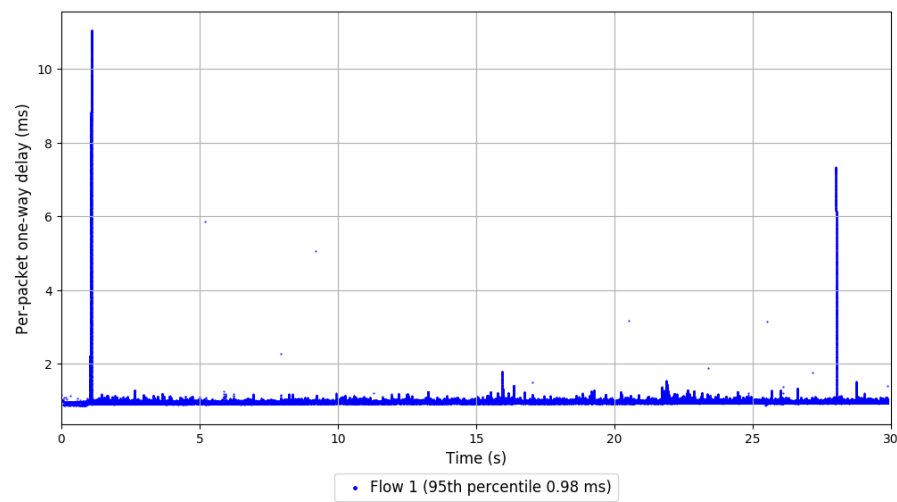
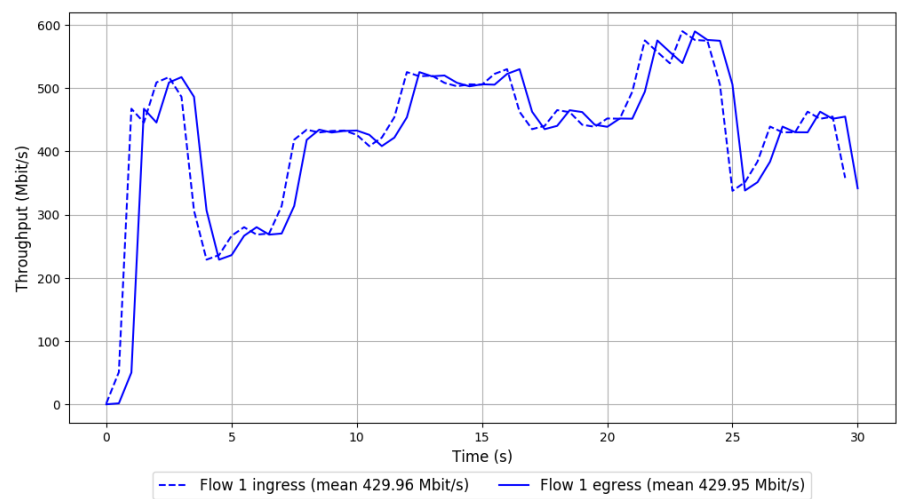
-- Flow 1:

Average throughput: 429.95 Mbit/s

95th percentile per-packet one-way delay: 0.982 ms

Loss rate: 0.07%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-07-25 00:48:38

End at: 2018-07-25 00:49:08

Local clock offset: 3.407 ms

Remote clock offset: 2.025 ms

Below is generated by plot.py at 2018-07-25 06:00:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 446.04 Mbit/s

95th percentile per-packet one-way delay: 1.001 ms

Loss rate: 0.07%

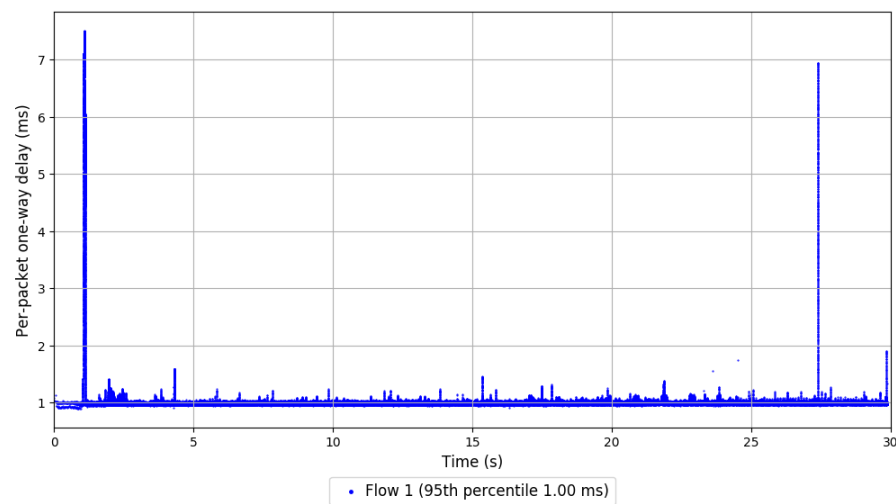
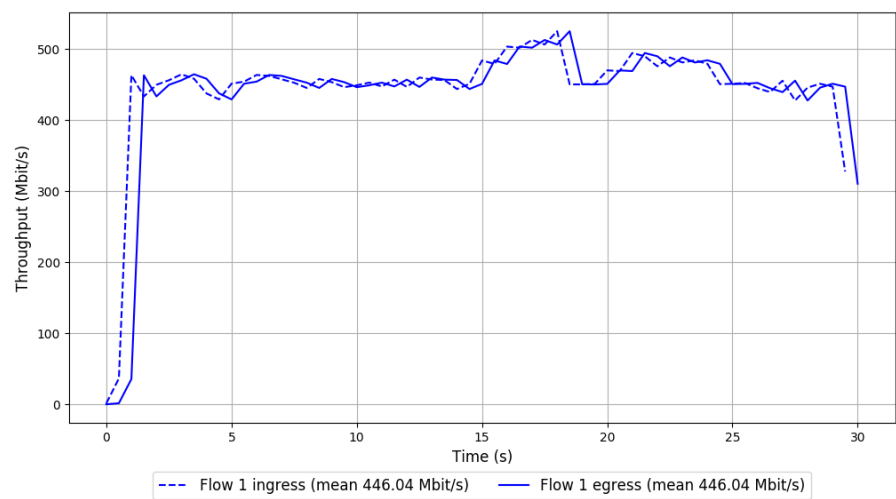
-- Flow 1:

Average throughput: 446.04 Mbit/s

95th percentile per-packet one-way delay: 1.001 ms

Loss rate: 0.07%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2018-07-25 01:14:40

End at: 2018-07-25 01:15:10

Local clock offset: 3.591 ms

Remote clock offset: 2.293 ms

Below is generated by plot.py at 2018-07-25 06:00:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 450.55 Mbit/s

95th percentile per-packet one-way delay: 1.085 ms

Loss rate: 0.06%

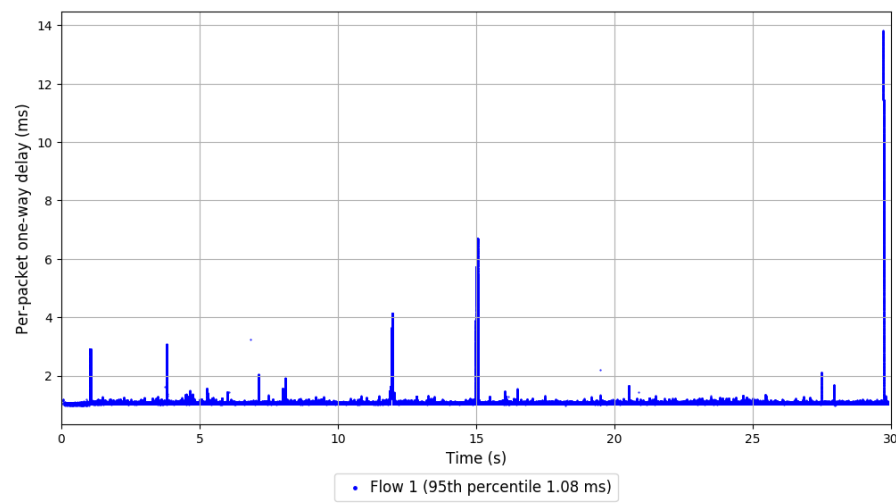
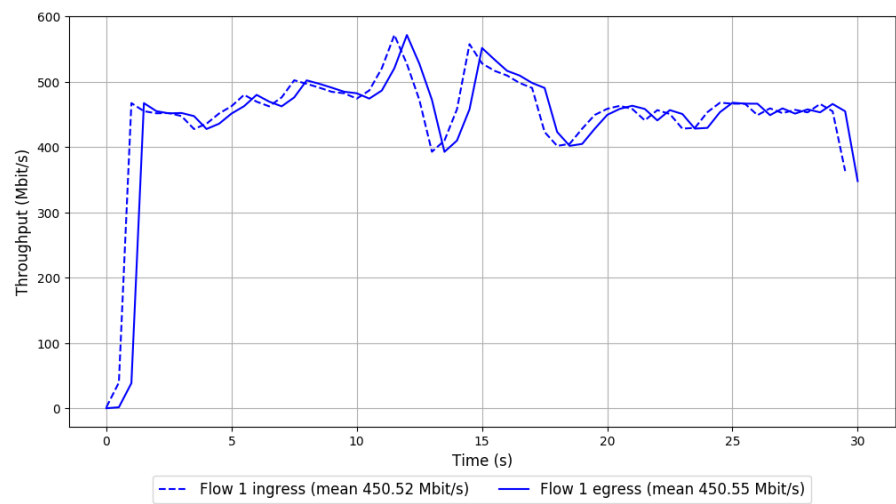
-- Flow 1:

Average throughput: 450.55 Mbit/s

95th percentile per-packet one-way delay: 1.085 ms

Loss rate: 0.06%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2018-07-25 01:40:28

End at: 2018-07-25 01:40:58

Local clock offset: 3.681 ms

Remote clock offset: 2.307 ms

Below is generated by plot.py at 2018-07-25 06:00:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 434.15 Mbit/s

95th percentile per-packet one-way delay: 1.002 ms

Loss rate: 0.05%

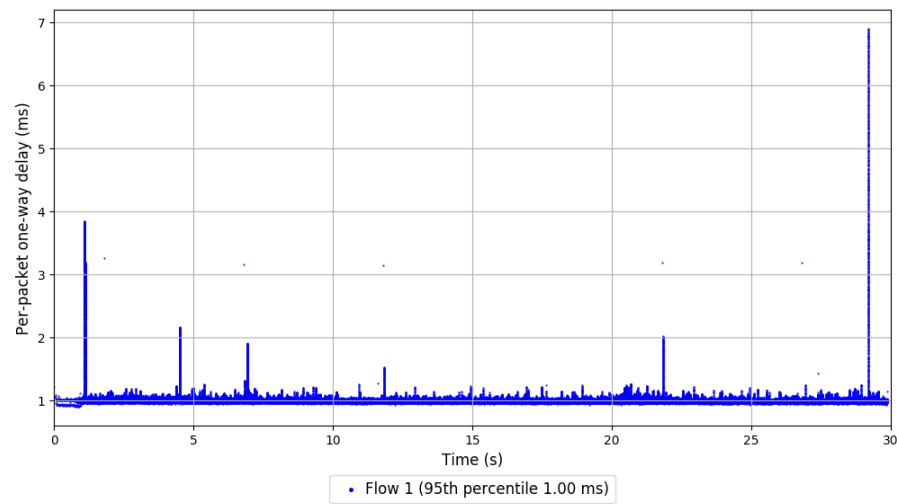
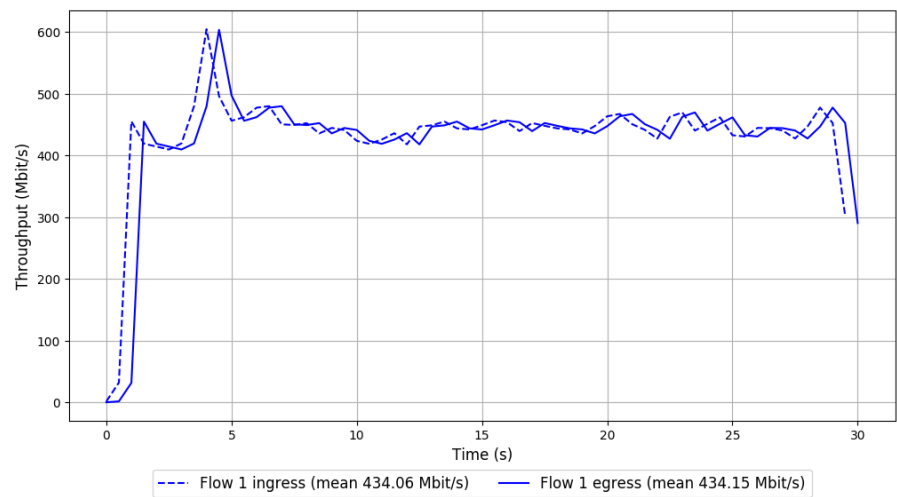
-- Flow 1:

Average throughput: 434.15 Mbit/s

95th percentile per-packet one-way delay: 1.002 ms

Loss rate: 0.05%

Run 5: Report of PCC-Vivace — Data Link



Run 6: Statistics of PCC-Vivace

Start at: 2018-07-25 02:06:21

End at: 2018-07-25 02:06:51

Local clock offset: 3.419 ms

Remote clock offset: 1.96 ms

Below is generated by plot.py at 2018-07-25 06:01:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 436.18 Mbit/s

95th percentile per-packet one-way delay: 1.012 ms

Loss rate: 0.05%

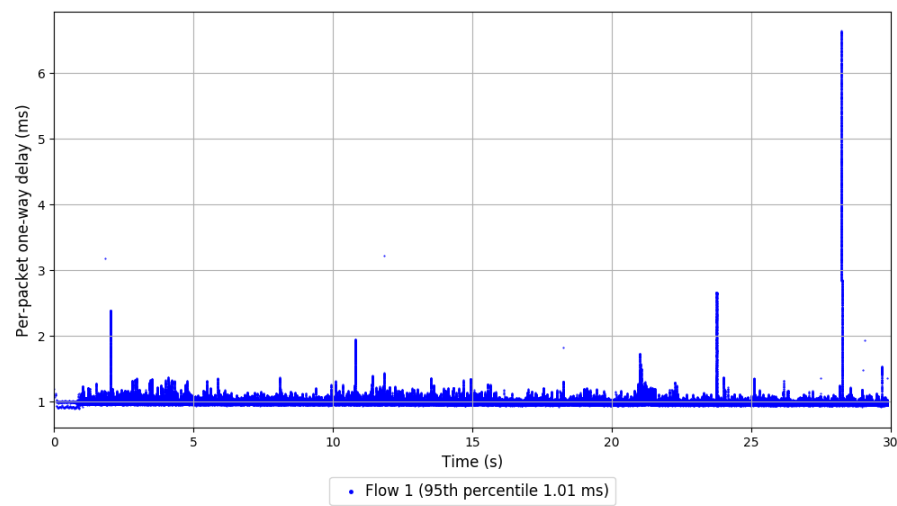
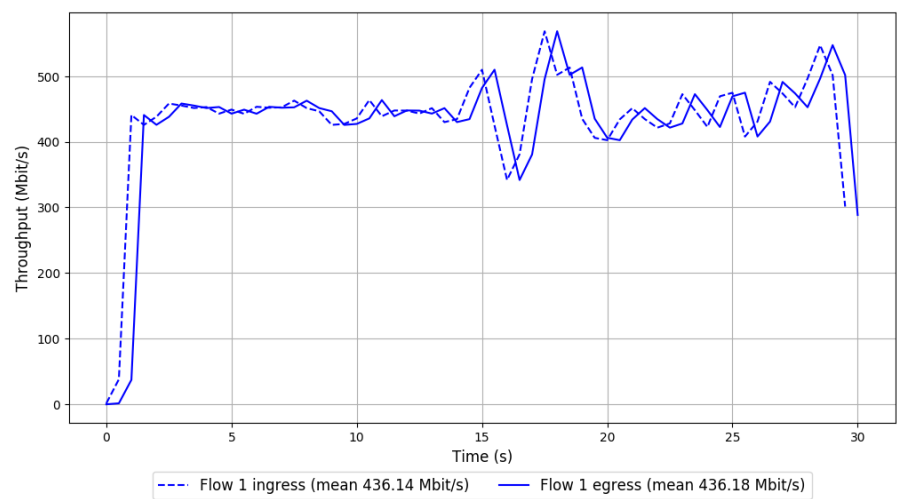
-- Flow 1:

Average throughput: 436.18 Mbit/s

95th percentile per-packet one-way delay: 1.012 ms

Loss rate: 0.05%

Run 6: Report of PCC-Vivace — Data Link



Run 7: Statistics of PCC-Vivace

Start at: 2018-07-25 02:32:17

End at: 2018-07-25 02:32:47

Local clock offset: 3.112 ms

Remote clock offset: 1.518 ms

Below is generated by plot.py at 2018-07-25 06:01:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 446.06 Mbit/s

95th percentile per-packet one-way delay: 1.046 ms

Loss rate: 0.05%

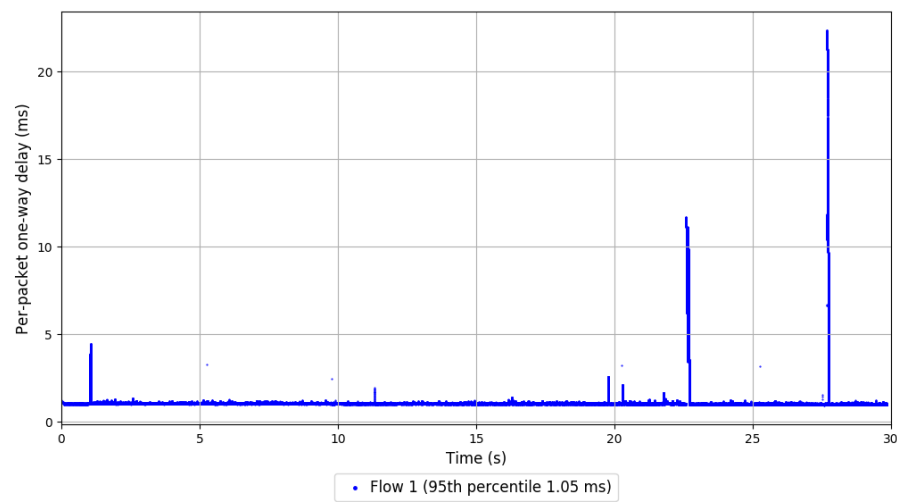
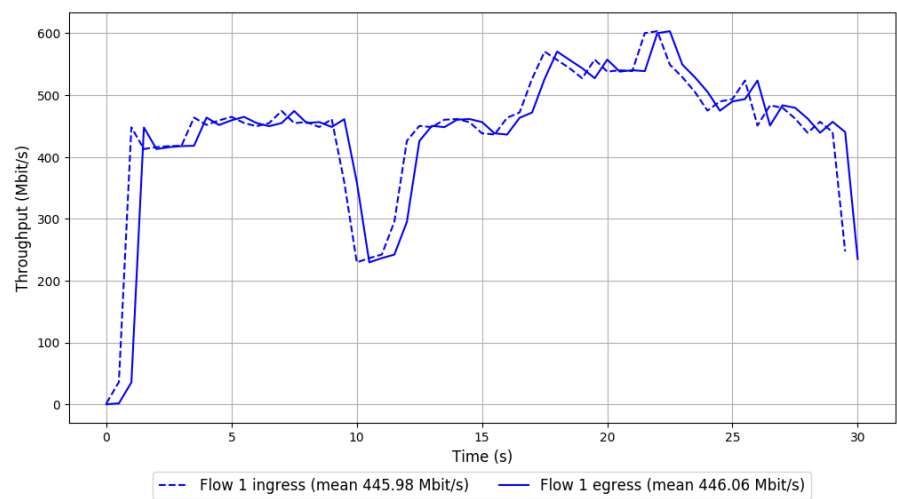
-- Flow 1:

Average throughput: 446.06 Mbit/s

95th percentile per-packet one-way delay: 1.046 ms

Loss rate: 0.05%

Run 7: Report of PCC-Vivace — Data Link



Run 8: Statistics of PCC-Vivace

Start at: 2018-07-25 02:58:08

End at: 2018-07-25 02:58:39

Local clock offset: 2.973 ms

Remote clock offset: 1.154 ms

Below is generated by plot.py at 2018-07-25 06:01:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 446.08 Mbit/s

95th percentile per-packet one-way delay: 1.071 ms

Loss rate: 0.07%

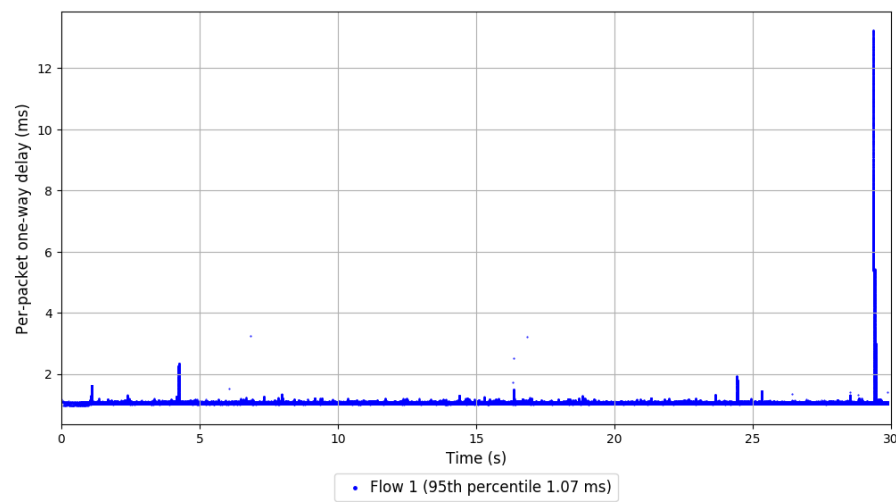
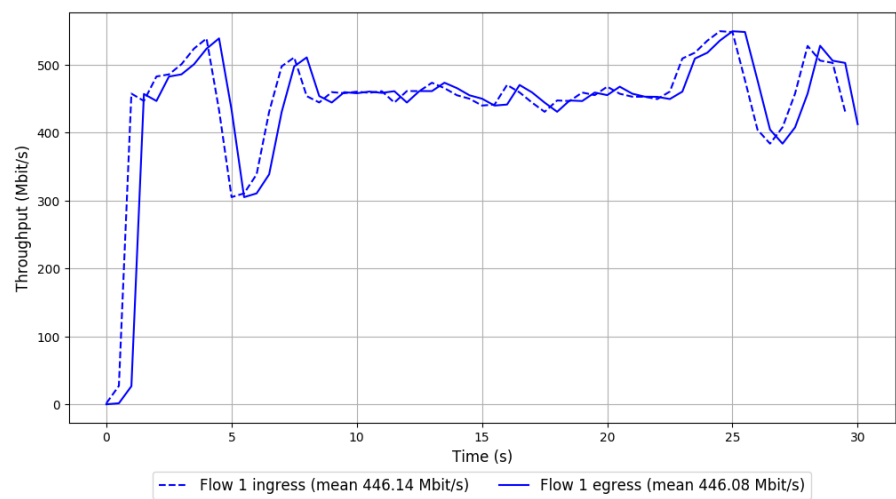
-- Flow 1:

Average throughput: 446.08 Mbit/s

95th percentile per-packet one-way delay: 1.071 ms

Loss rate: 0.07%

Run 8: Report of PCC-Vivace — Data Link



Run 9: Statistics of PCC-Vivace

Start at: 2018-07-25 03:23:54

End at: 2018-07-25 03:24:24

Local clock offset: 3.533 ms

Remote clock offset: 0.991 ms

Below is generated by plot.py at 2018-07-25 06:01:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 416.03 Mbit/s

95th percentile per-packet one-way delay: 1.105 ms

Loss rate: 0.07%

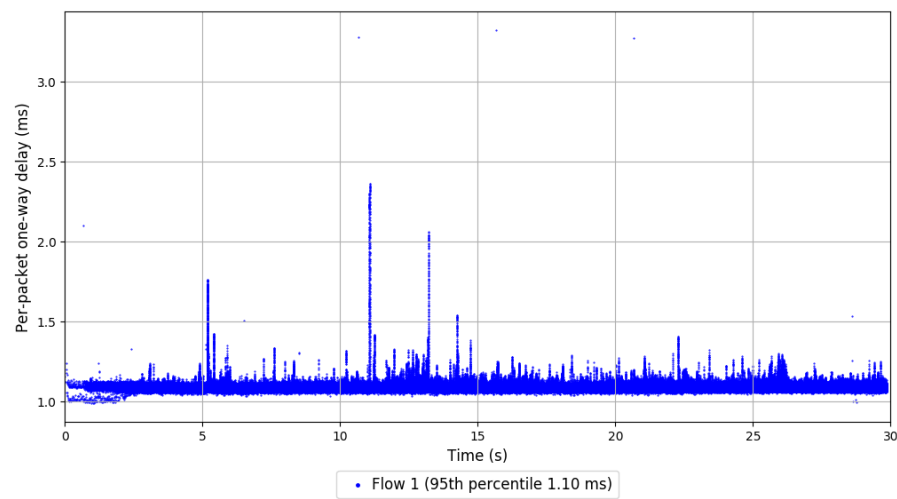
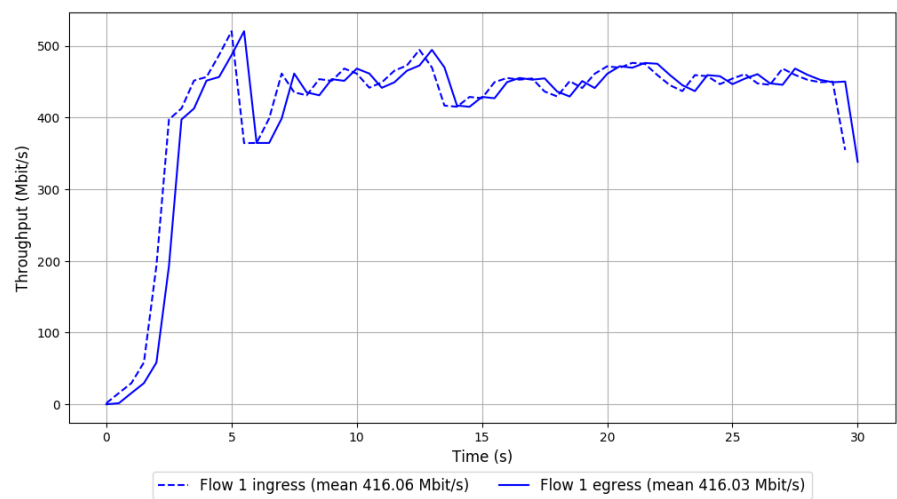
-- Flow 1:

Average throughput: 416.03 Mbit/s

95th percentile per-packet one-way delay: 1.105 ms

Loss rate: 0.07%

Run 9: Report of PCC-Vivace — Data Link



Run 10: Statistics of PCC-Vivace

Start at: 2018-07-25 03:49:54

End at: 2018-07-25 03:50:24

Local clock offset: 3.291 ms

Remote clock offset: 1.133 ms

Below is generated by plot.py at 2018-07-25 06:01:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 436.52 Mbit/s

95th percentile per-packet one-way delay: 1.020 ms

Loss rate: 0.07%

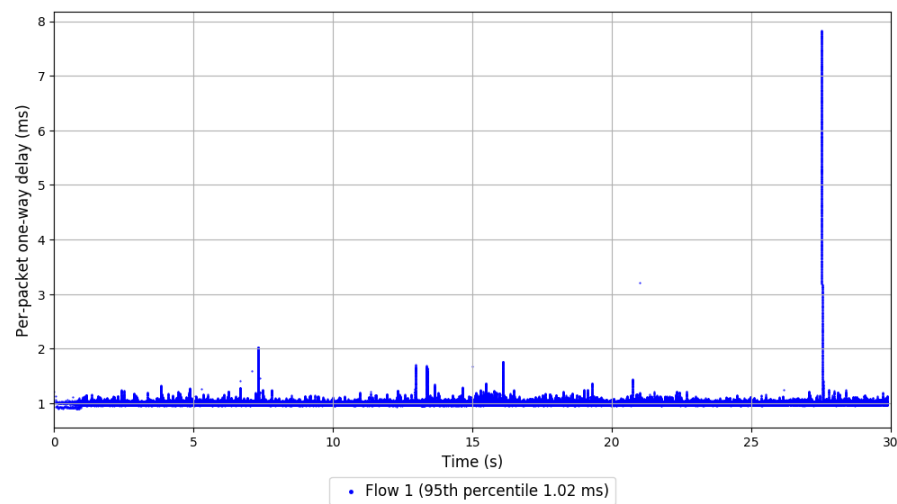
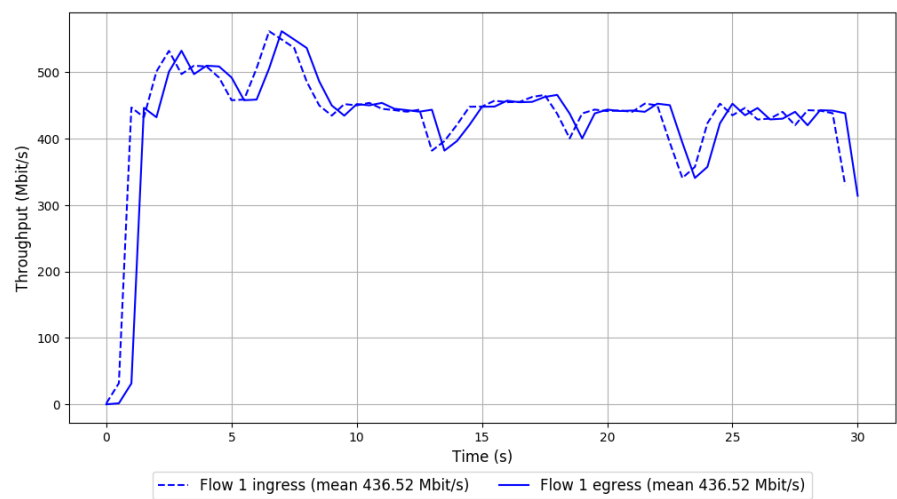
-- Flow 1:

Average throughput: 436.52 Mbit/s

95th percentile per-packet one-way delay: 1.020 ms

Loss rate: 0.07%

Run 10: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

Start at: 2018-07-25 00:01:43

End at: 2018-07-25 00:02:13

Local clock offset: 3.331 ms

Remote clock offset: 0.995 ms

Below is generated by plot.py at 2018-07-25 06:01:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 1.139 ms

Loss rate: 0.07%

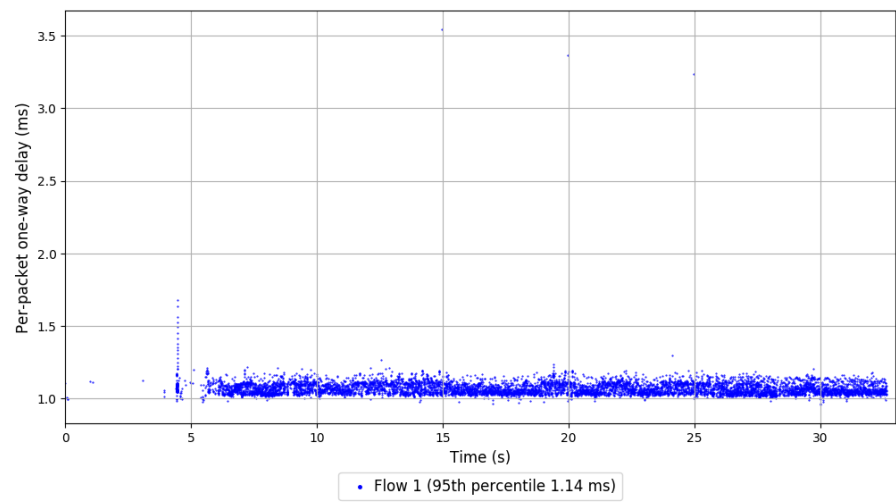
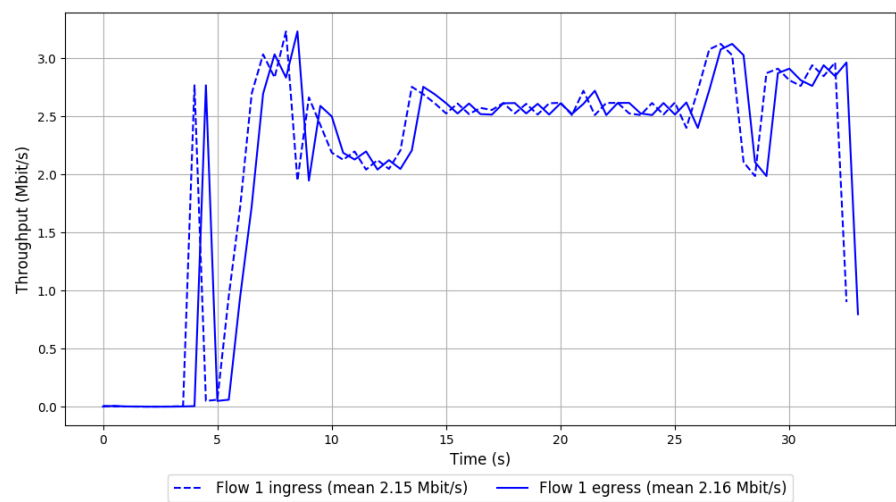
-- Flow 1:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 1.139 ms

Loss rate: 0.07%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-07-25 00:27:32

End at: 2018-07-25 00:28:02

Local clock offset: 3.353 ms

Remote clock offset: 1.672 ms

Below is generated by plot.py at 2018-07-25 06:01:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 1.089 ms

Loss rate: 0.00%

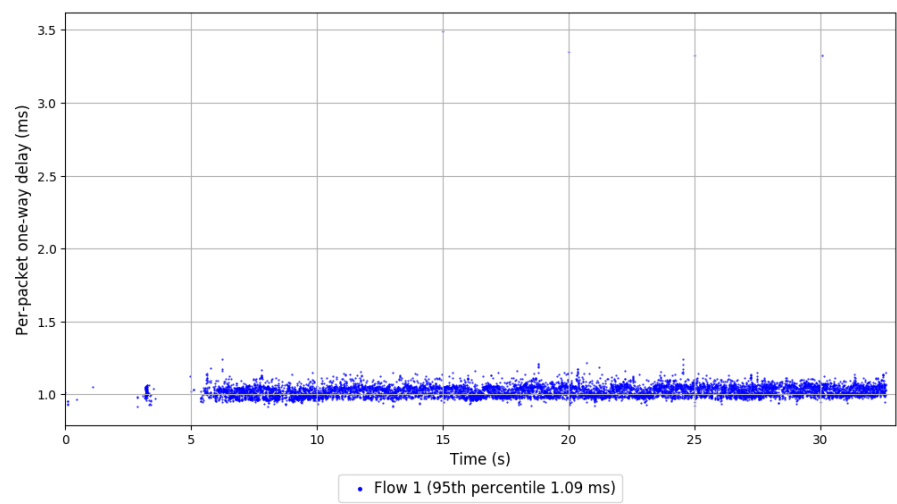
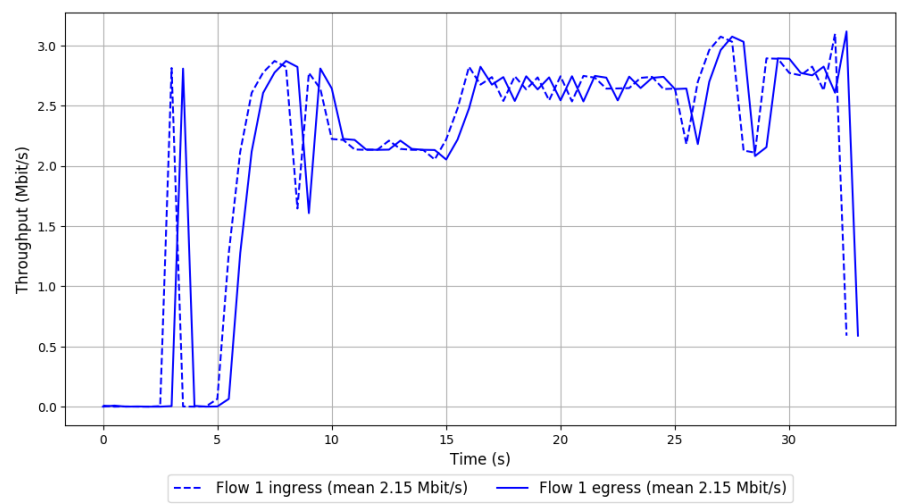
-- Flow 1:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 1.089 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-07-25 00:53:17

End at: 2018-07-25 00:53:47

Local clock offset: 3.375 ms

Remote clock offset: 2.044 ms

Below is generated by plot.py at 2018-07-25 06:01:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.19 Mbit/s

95th percentile per-packet one-way delay: 1.131 ms

Loss rate: 0.07%

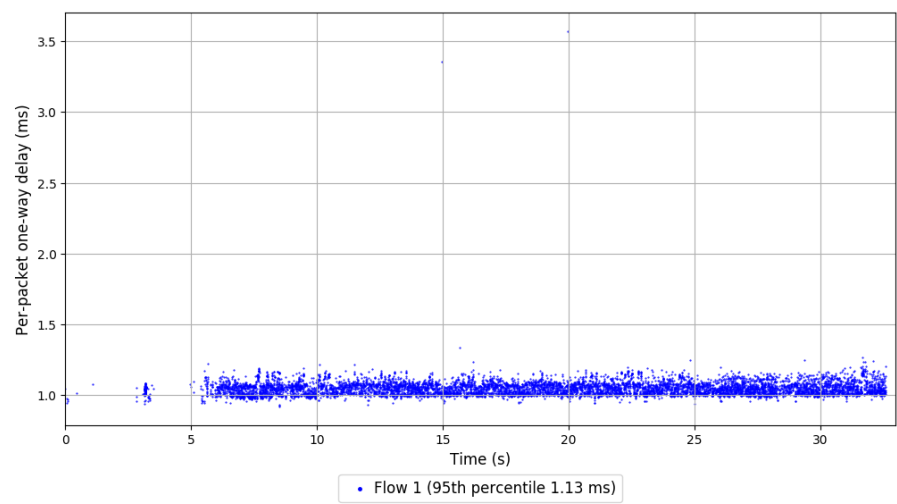
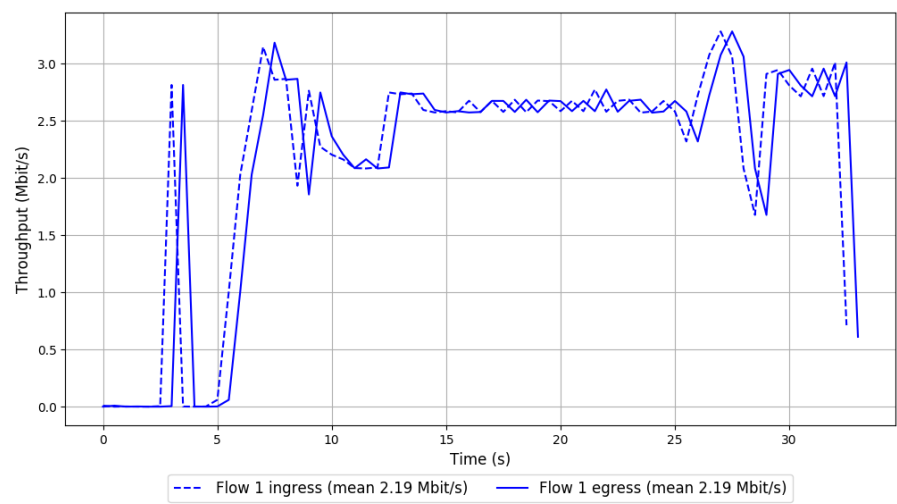
-- Flow 1:

Average throughput: 2.19 Mbit/s

95th percentile per-packet one-way delay: 1.131 ms

Loss rate: 0.07%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-07-25 01:19:20

End at: 2018-07-25 01:19:50

Local clock offset: 3.59 ms

Remote clock offset: 2.361 ms

Below is generated by plot.py at 2018-07-25 06:01:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 1.166 ms

Loss rate: 0.07%

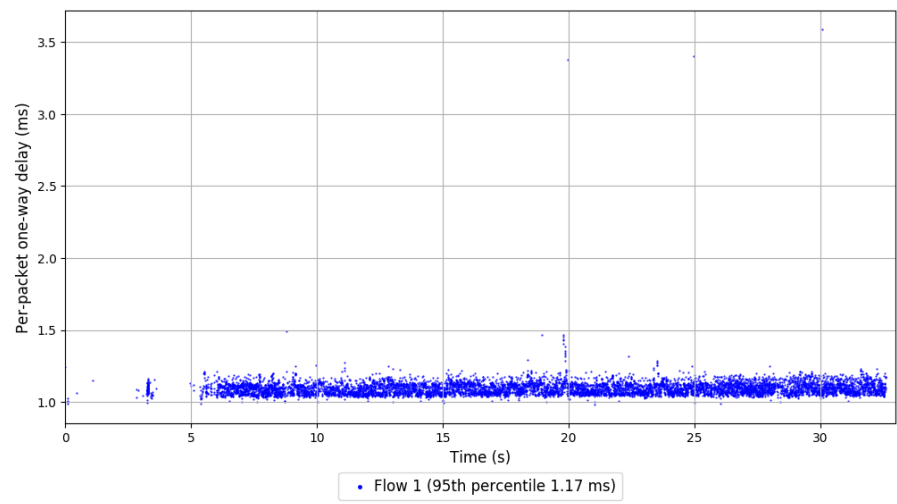
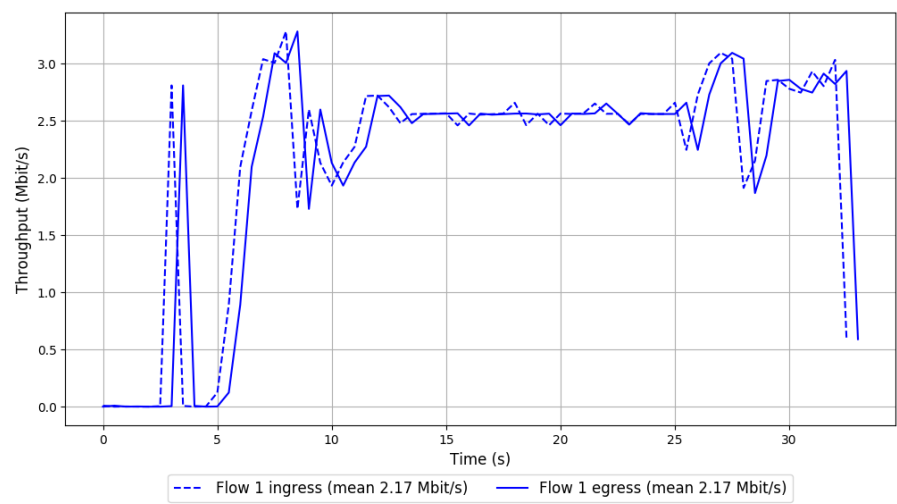
-- Flow 1:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 1.166 ms

Loss rate: 0.07%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-07-25 01:45:07

End at: 2018-07-25 01:45:37

Local clock offset: 3.586 ms

Remote clock offset: 2.212 ms

Below is generated by plot.py at 2018-07-25 06:01:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.18 Mbit/s

95th percentile per-packet one-way delay: 1.068 ms

Loss rate: 0.07%

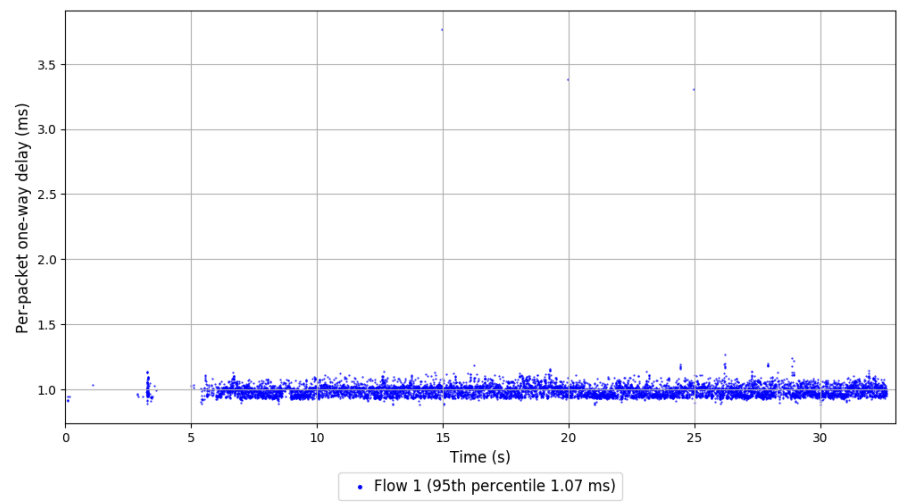
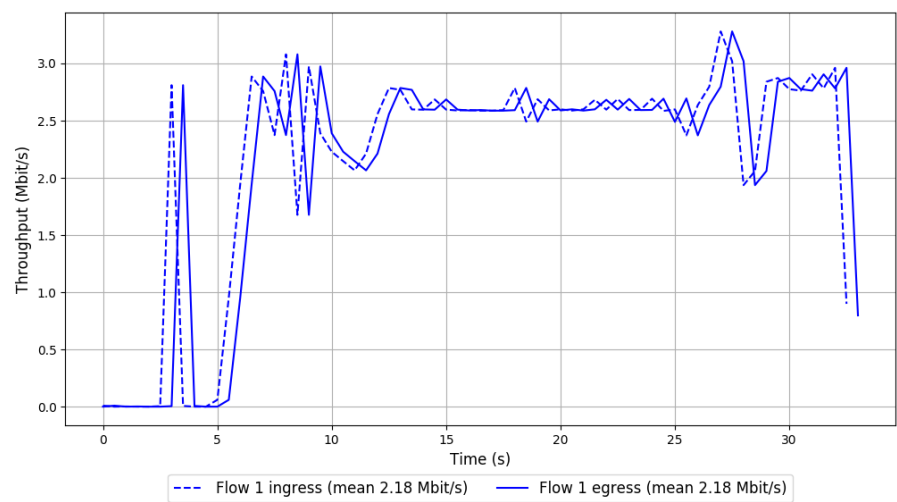
-- Flow 1:

Average throughput: 2.18 Mbit/s

95th percentile per-packet one-way delay: 1.068 ms

Loss rate: 0.07%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-07-25 02:11:02

End at: 2018-07-25 02:11:32

Local clock offset: 3.492 ms

Remote clock offset: 1.963 ms

Below is generated by plot.py at 2018-07-25 06:01:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 1.030 ms

Loss rate: 0.00%

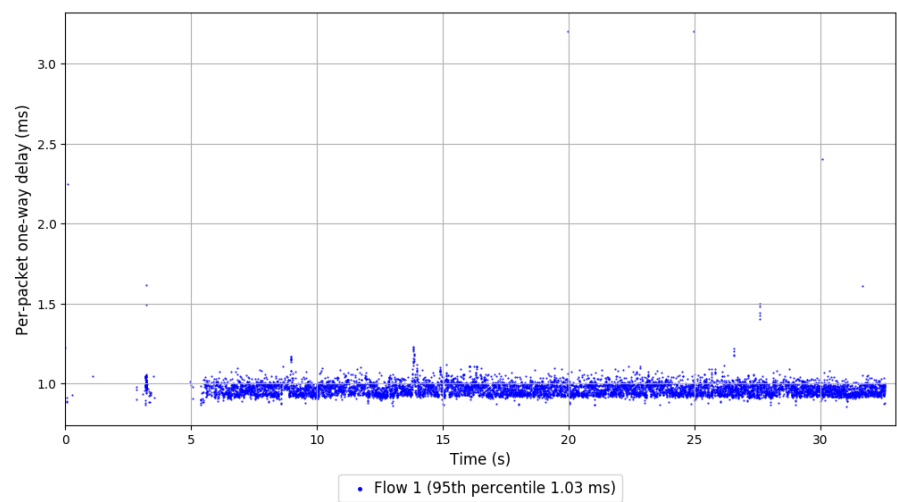
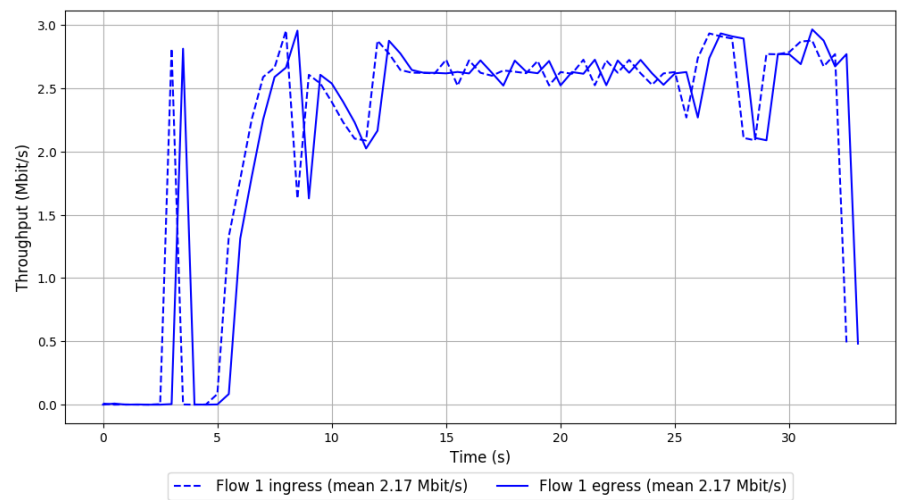
-- Flow 1:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 1.030 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-07-25 02:36:54

End at: 2018-07-25 02:37:24

Local clock offset: 3.222 ms

Remote clock offset: 1.439 ms

Below is generated by plot.py at 2018-07-25 06:01:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 1.119 ms

Loss rate: 0.07%

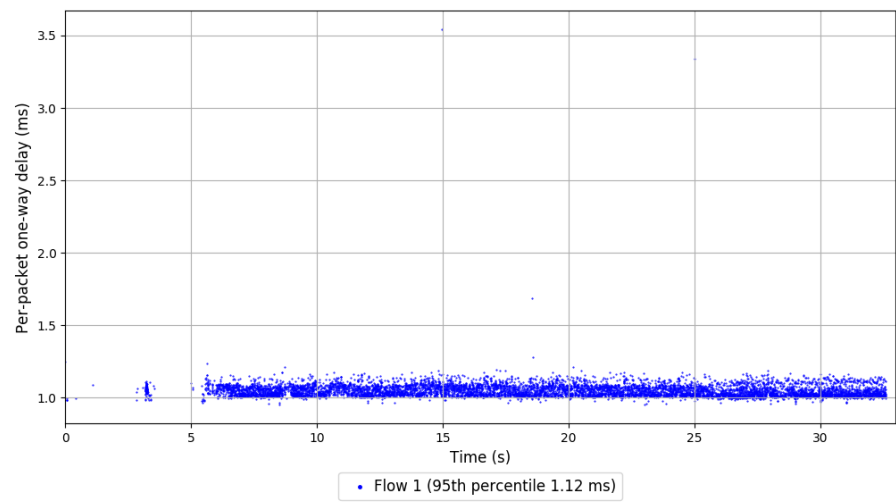
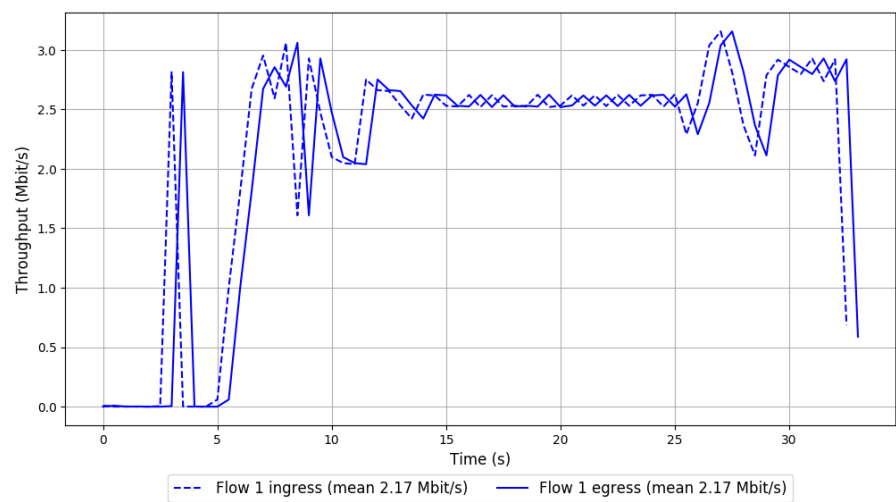
-- Flow 1:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 1.119 ms

Loss rate: 0.07%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-07-25 03:02:46

End at: 2018-07-25 03:03:16

Local clock offset: 2.968 ms

Remote clock offset: 1.125 ms

Below is generated by plot.py at 2018-07-25 06:01:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.18 Mbit/s

95th percentile per-packet one-way delay: 1.007 ms

Loss rate: 0.00%

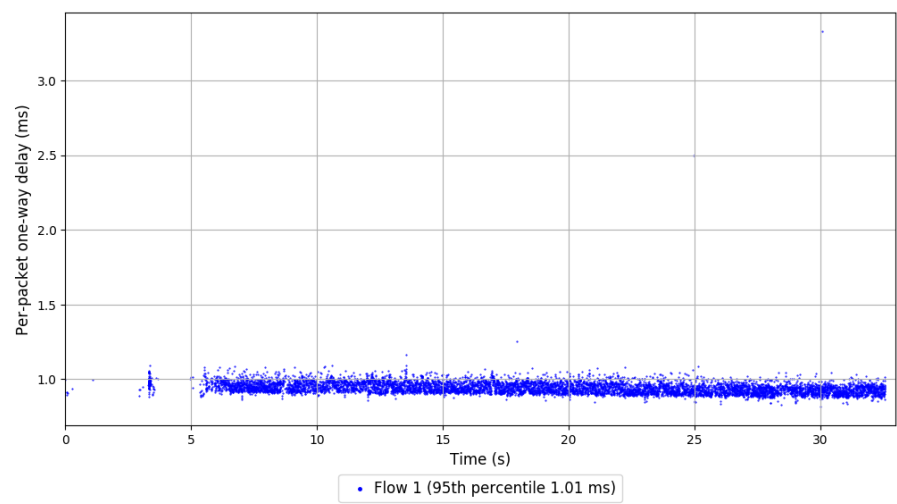
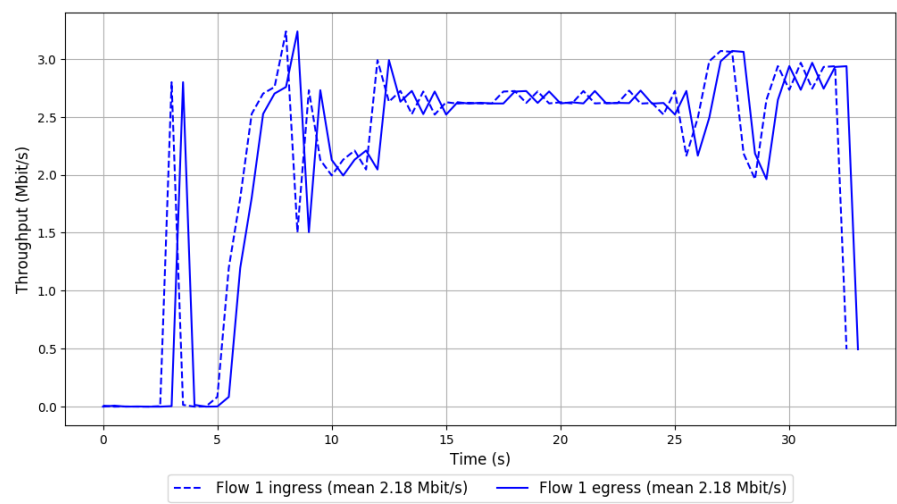
-- Flow 1:

Average throughput: 2.18 Mbit/s

95th percentile per-packet one-way delay: 1.007 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-07-25 03:28:35

End at: 2018-07-25 03:29:05

Local clock offset: 3.522 ms

Remote clock offset: 1.137 ms

Below is generated by plot.py at 2018-07-25 06:01:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.96 Mbit/s

95th percentile per-packet one-way delay: 1.061 ms

Loss rate: 0.15%

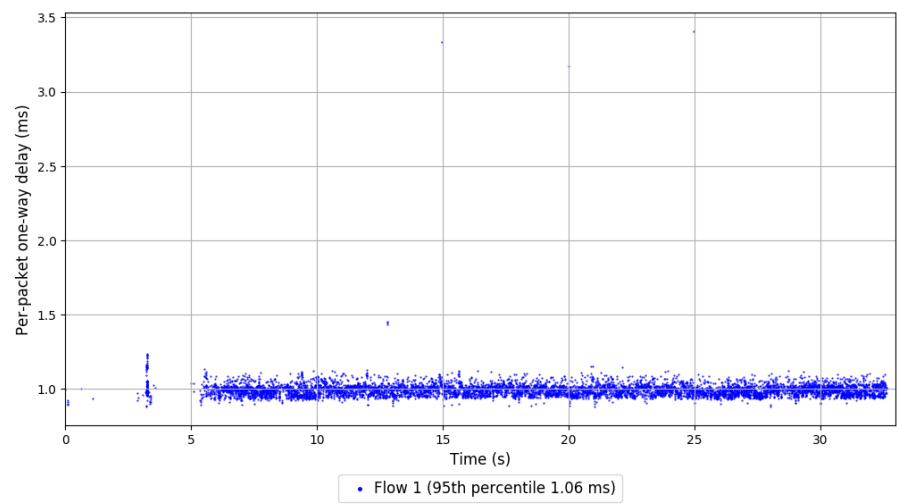
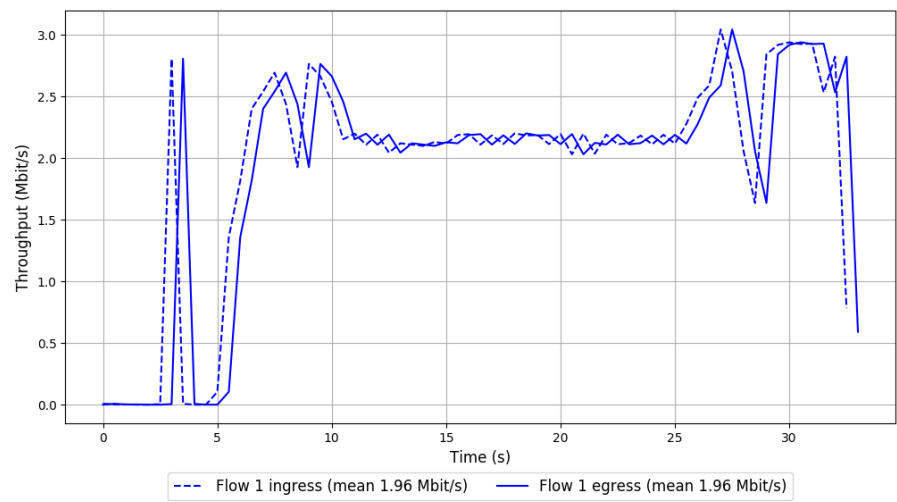
-- Flow 1:

Average throughput: 1.96 Mbit/s

95th percentile per-packet one-way delay: 1.061 ms

Loss rate: 0.15%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-07-25 03:54:36

End at: 2018-07-25 03:55:06

Local clock offset: 3.25 ms

Remote clock offset: 1.18 ms

Below is generated by plot.py at 2018-07-25 06:01:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.14 Mbit/s

95th percentile per-packet one-way delay: 1.067 ms

Loss rate: 0.14%

-- Flow 1:

Average throughput: 2.14 Mbit/s

95th percentile per-packet one-way delay: 1.067 ms

Loss rate: 0.14%

Run 10: Report of WebRTC media — Data Link

