

Pantheon Report

Generated at 2018-07-24 12:51:30 (UTC).

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

Repeated the test of 17 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

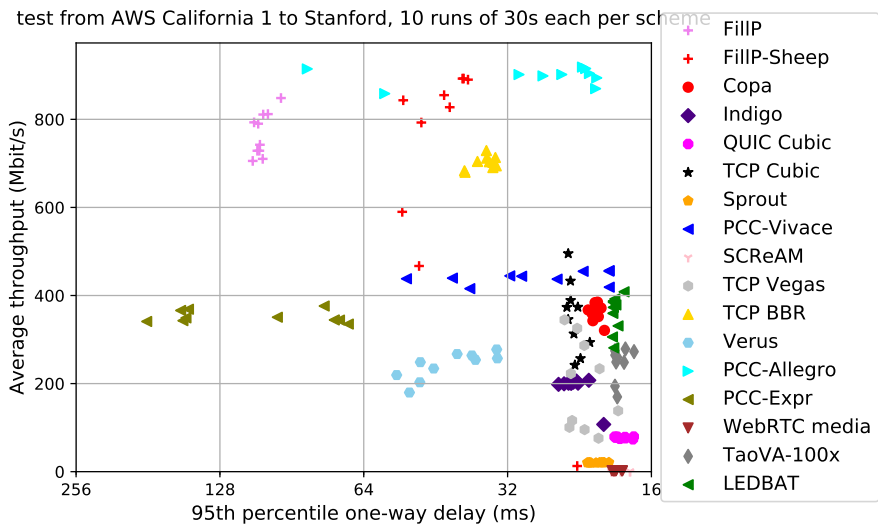
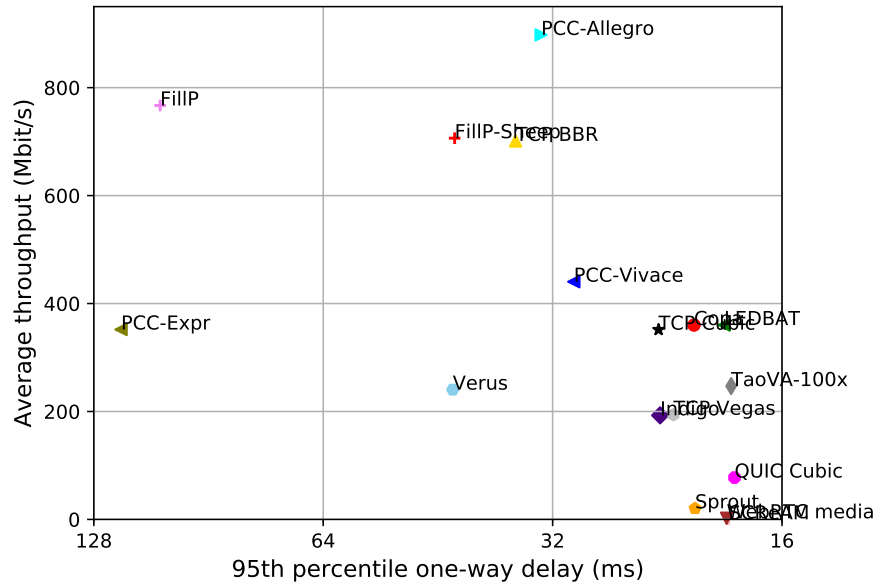
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

Git summary:

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

test from AWS California 1 to Stanford, 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	701.32	35.79	0.53
Copa	10	360.17	20.87	0.04
TCP Cubic	10	351.53	23.23	0.12
FillP	10	766.98	104.76	4.51
FillP-Sheep	10	706.35	43.02	10.11
Indigo	10	192.85	23.12	0.08
LEDBAT	10	360.13	19.06	0.01
PCC-Allegro	10	897.68	33.13	0.72
PCC-Expr	10	351.86	117.90	1.22
QUIC Cubic	10	77.57	18.47	0.01
SCReAM	10	0.20	18.79	0.08
Sprout	10	20.54	20.81	0.24
TaoVA-100x	10	247.05	18.66	0.03
TCP Vegas	10	193.95	22.22	0.17
Verus	10	240.45	43.27	19.00
PCC-Vivace	10	440.43	30.02	0.04
WebRTC media	10	2.15	18.92	0.10

Run 1: Statistics of TCP BBR

Start at: 2018-07-24 06:59:35

End at: 2018-07-24 07:00:05

Local clock offset: 7.762 ms

Remote clock offset: 2.552 ms

Below is generated by plot.py at 2018-07-24 11:18:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 683.35 Mbit/s

95th percentile per-packet one-way delay: 39.387 ms

Loss rate: 0.44%

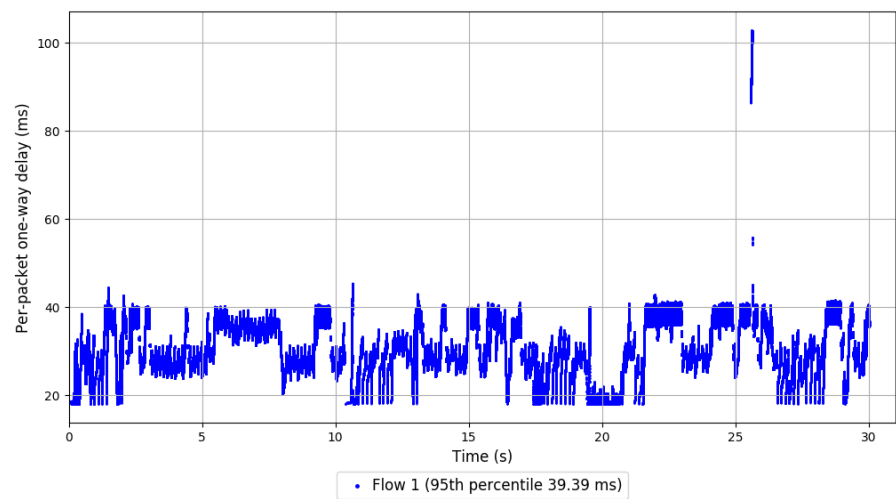
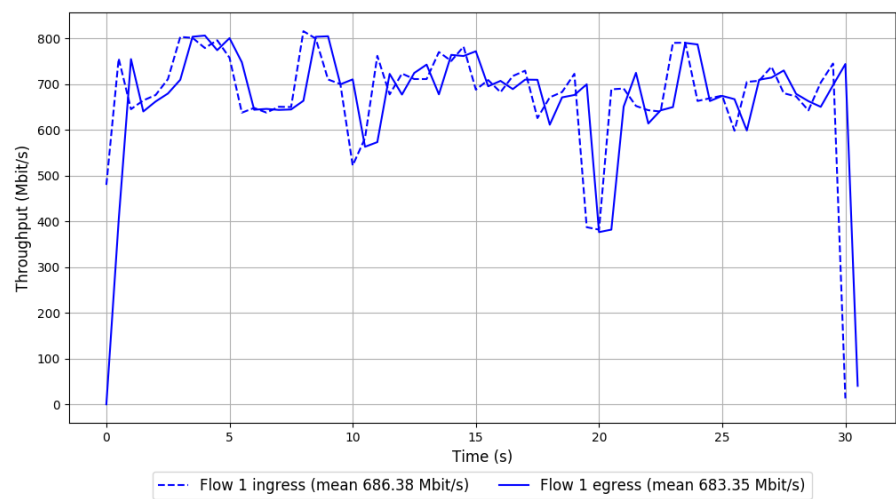
-- Flow 1:

Average throughput: 683.35 Mbit/s

95th percentile per-packet one-way delay: 39.387 ms

Loss rate: 0.44%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

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

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

Local clock offset: 5.86 ms

Remote clock offset: 2.447 ms

Below is generated by plot.py at 2018-07-24 11:18:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 679.87 Mbit/s

95th percentile per-packet one-way delay: 39.271 ms

Loss rate: 0.57%

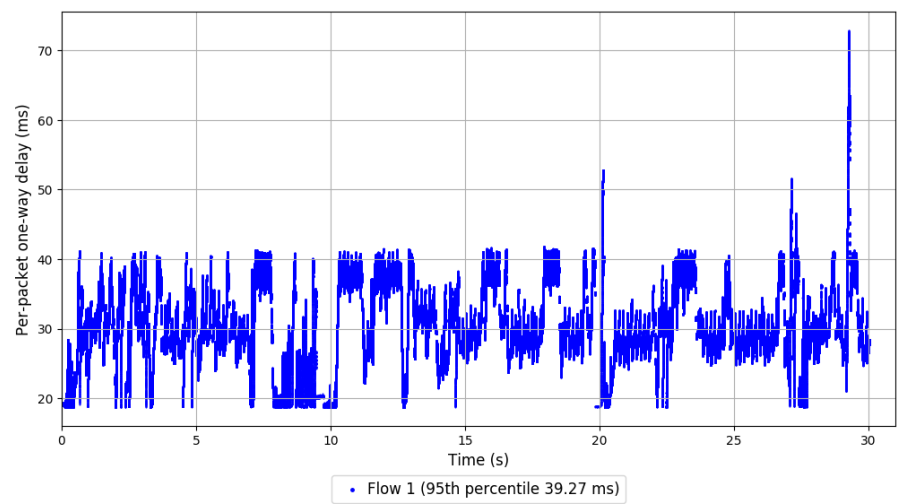
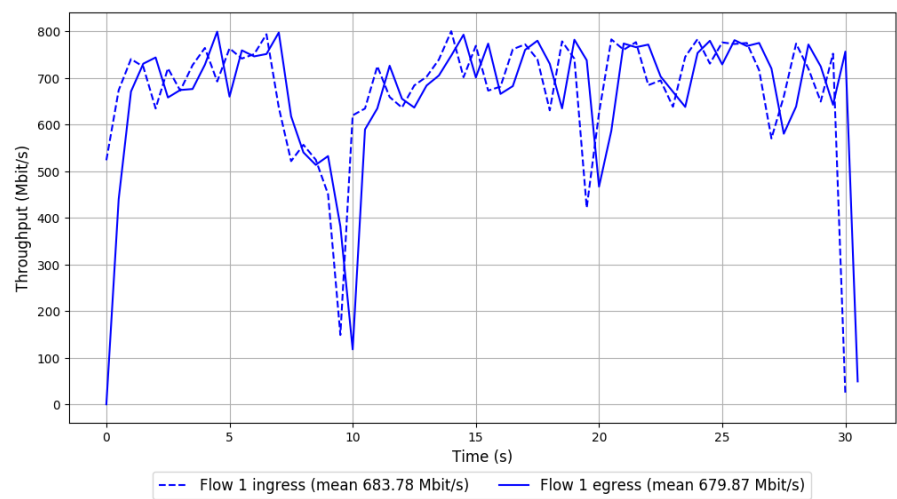
-- Flow 1:

Average throughput: 679.87 Mbit/s

95th percentile per-packet one-way delay: 39.271 ms

Loss rate: 0.57%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-07-24 07:50:58

End at: 2018-07-24 07:51:28

Local clock offset: 4.691 ms

Remote clock offset: 1.93 ms

Below is generated by plot.py at 2018-07-24 11:18:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 704.41 Mbit/s

95th percentile per-packet one-way delay: 36.998 ms

Loss rate: 0.51%

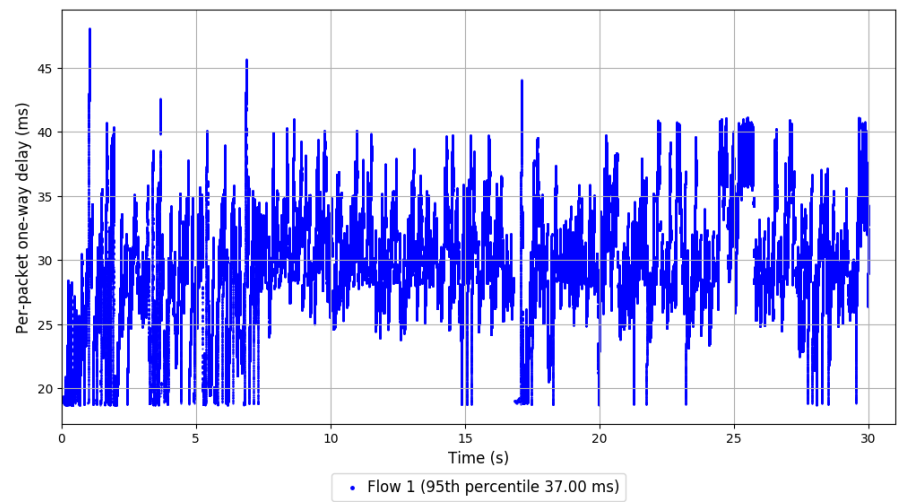
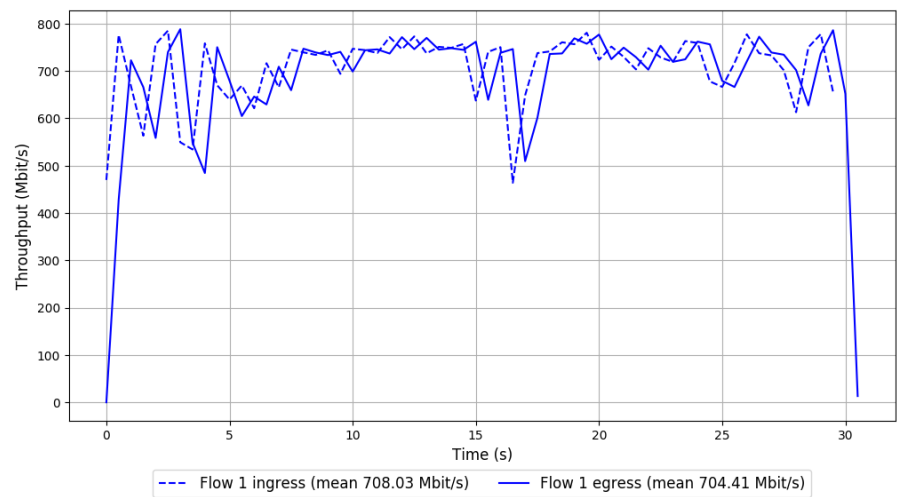
-- Flow 1:

Average throughput: 704.41 Mbit/s

95th percentile per-packet one-way delay: 36.998 ms

Loss rate: 0.51%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-07-24 08:16:33

End at: 2018-07-24 08:17:03

Local clock offset: 4.478 ms

Remote clock offset: 1.439 ms

Below is generated by plot.py at 2018-07-24 11:18:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 729.14 Mbit/s

95th percentile per-packet one-way delay: 35.439 ms

Loss rate: 0.21%

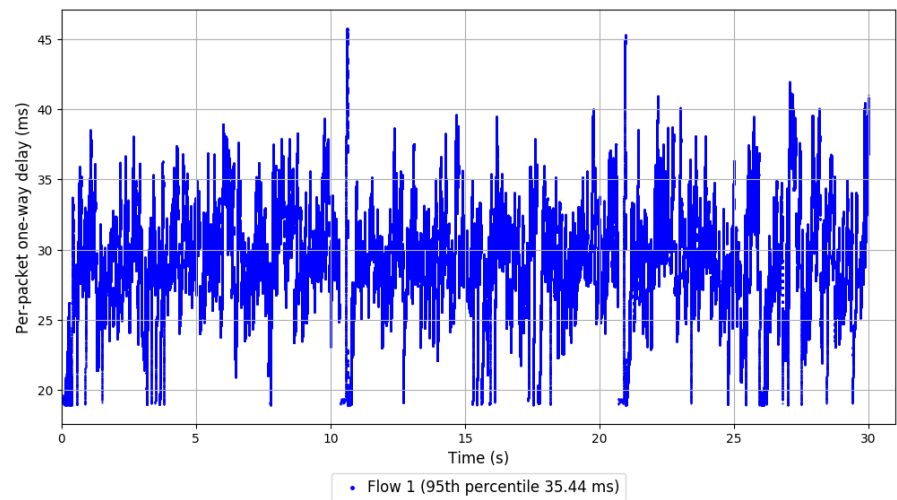
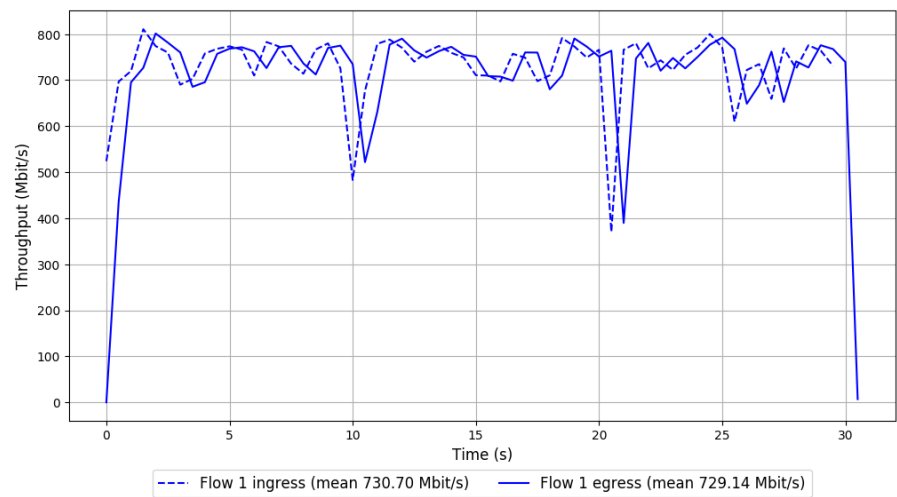
-- Flow 1:

Average throughput: 729.14 Mbit/s

95th percentile per-packet one-way delay: 35.439 ms

Loss rate: 0.21%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-07-24 08:42:12

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

Local clock offset: 3.796 ms

Remote clock offset: 1.074 ms

Below is generated by plot.py at 2018-07-24 11:18:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 711.87 Mbit/s

95th percentile per-packet one-way delay: 35.394 ms

Loss rate: 0.39%

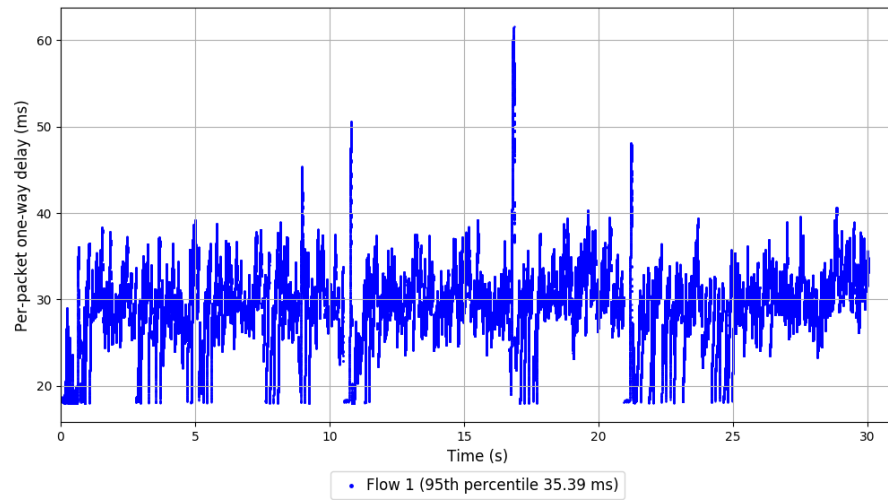
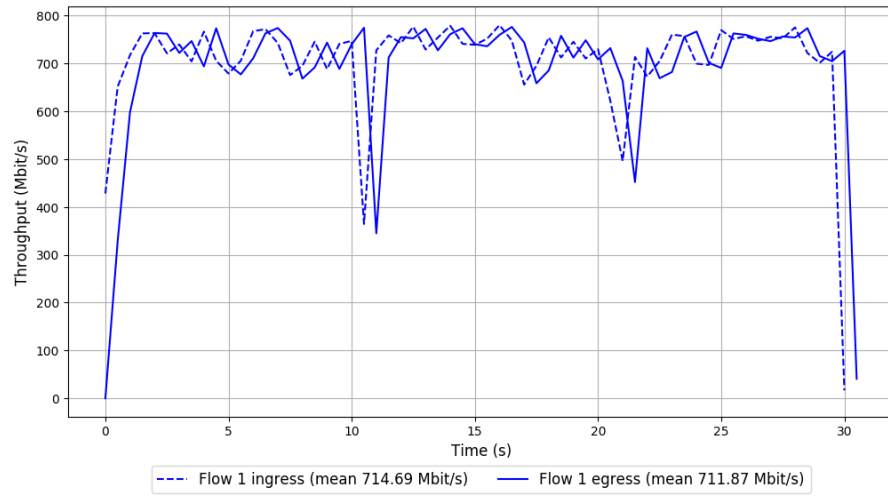
-- Flow 1:

Average throughput: 711.87 Mbit/s

95th percentile per-packet one-way delay: 35.394 ms

Loss rate: 0.39%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

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

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

Local clock offset: 3.289 ms

Remote clock offset: 0.84 ms

Below is generated by plot.py at 2018-07-24 11:18:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 703.78 Mbit/s

95th percentile per-packet one-way delay: 34.930 ms

Loss rate: 0.62%

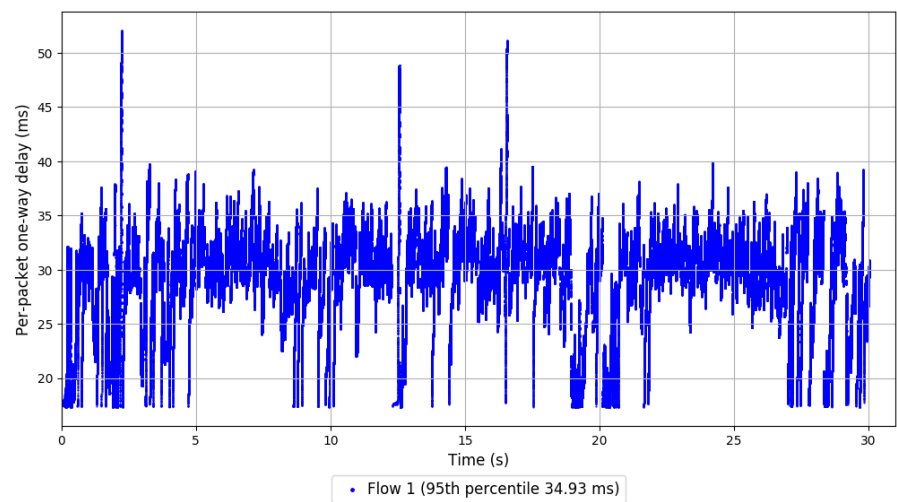
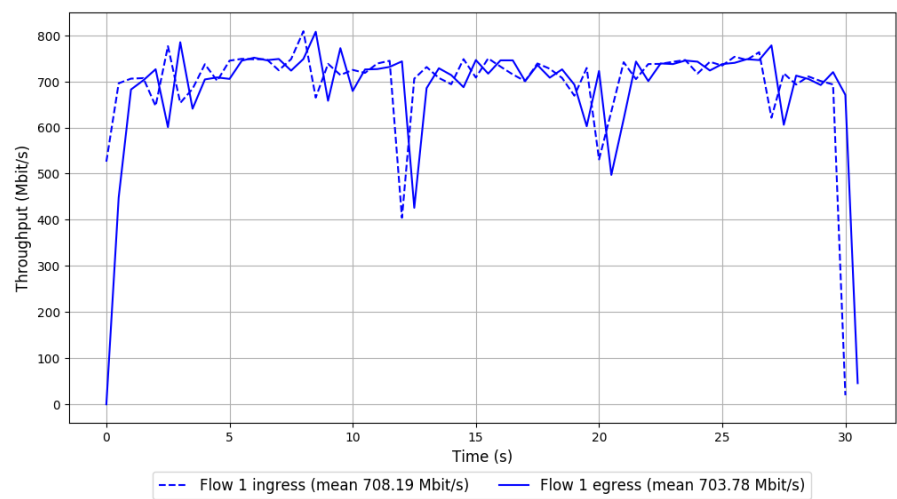
-- Flow 1:

Average throughput: 703.78 Mbit/s

95th percentile per-packet one-way delay: 34.930 ms

Loss rate: 0.62%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-07-24 09:33:16

End at: 2018-07-24 09:33:46

Local clock offset: 3.509 ms

Remote clock offset: 0.709 ms

Below is generated by plot.py at 2018-07-24 11:18:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 694.46 Mbit/s

95th percentile per-packet one-way delay: 33.793 ms

Loss rate: 0.66%

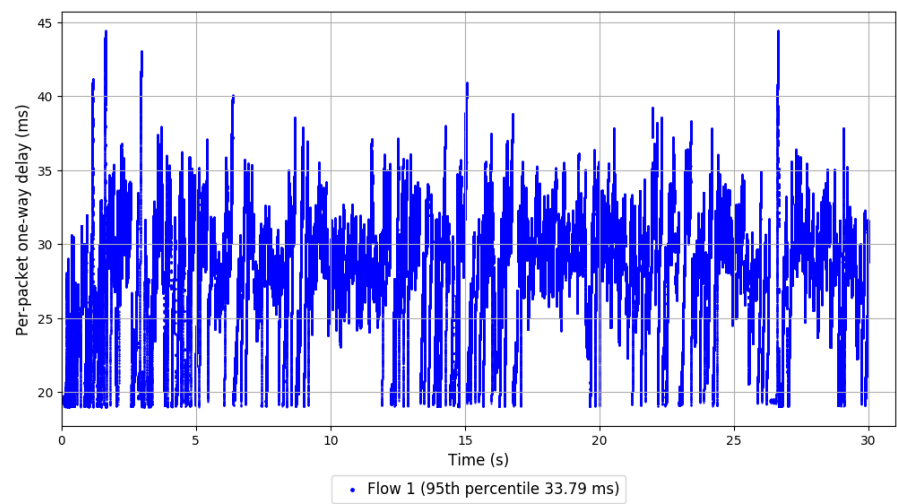
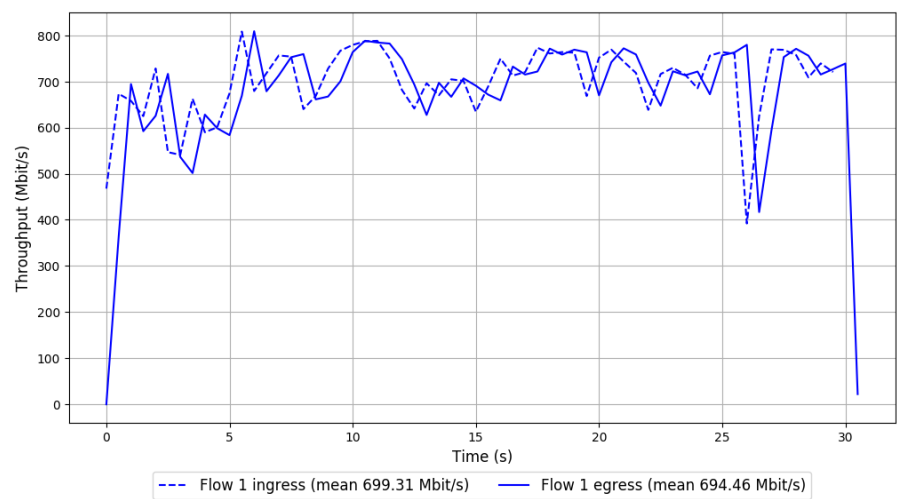
-- Flow 1:

Average throughput: 694.46 Mbit/s

95th percentile per-packet one-way delay: 33.793 ms

Loss rate: 0.66%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-07-24 09:58:45

End at: 2018-07-24 09:59:15

Local clock offset: 4.623 ms

Remote clock offset: 0.691 ms

Below is generated by plot.py at 2018-07-24 11:18:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 702.38 Mbit/s

95th percentile per-packet one-way delay: 34.353 ms

Loss rate: 0.72%

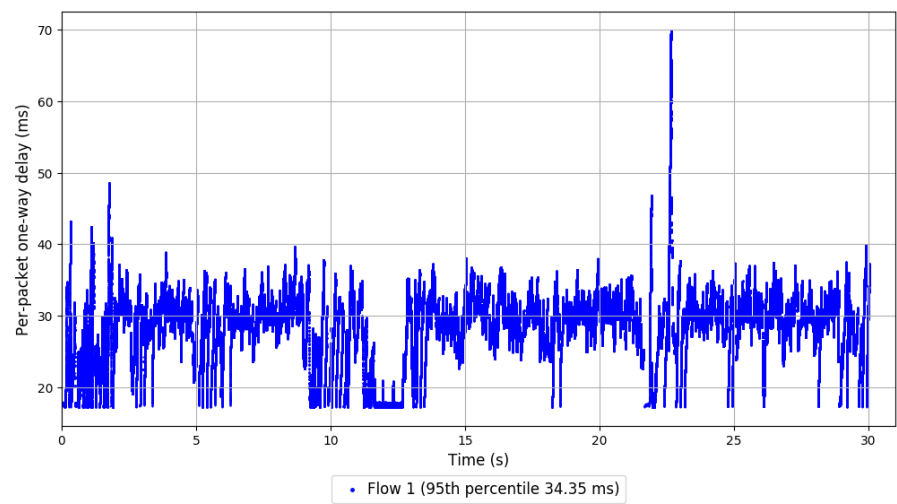
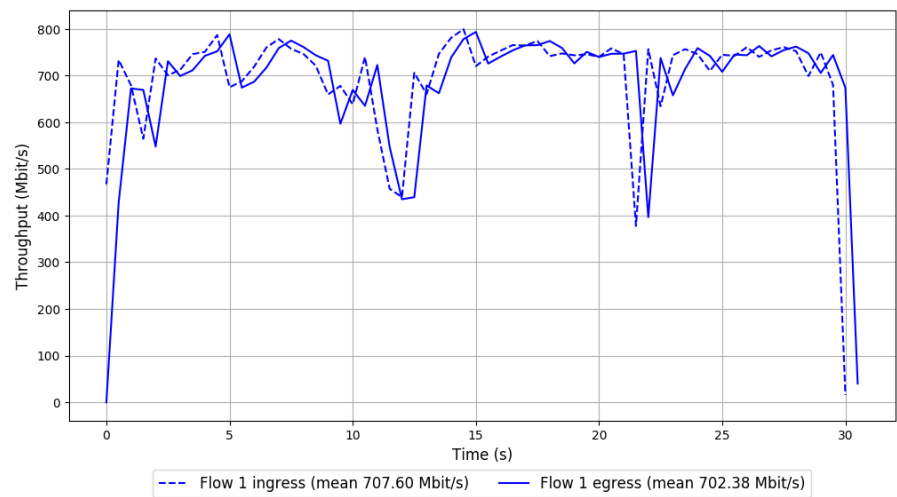
-- Flow 1:

Average throughput: 702.38 Mbit/s

95th percentile per-packet one-way delay: 34.353 ms

Loss rate: 0.72%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

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

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

Local clock offset: 4.671 ms

Remote clock offset: 0.658 ms

Below is generated by plot.py at 2018-07-24 11:26:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 713.42 Mbit/s

95th percentile per-packet one-way delay: 33.938 ms

Loss rate: 0.37%

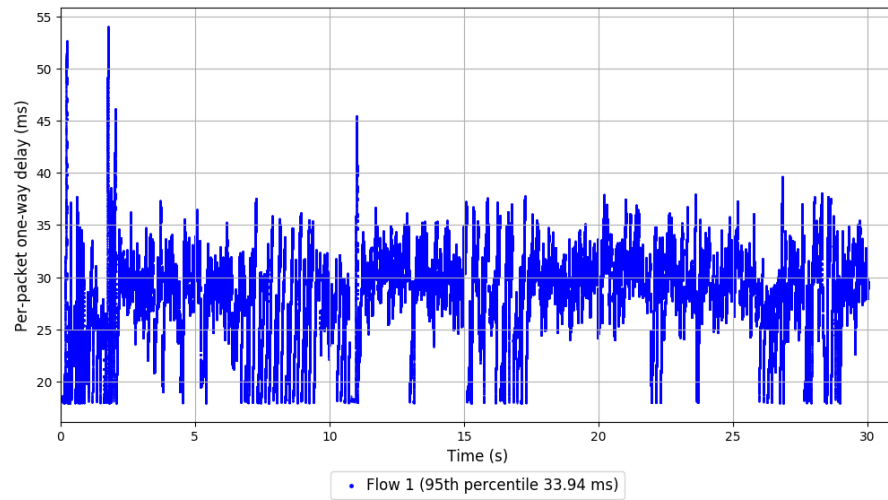
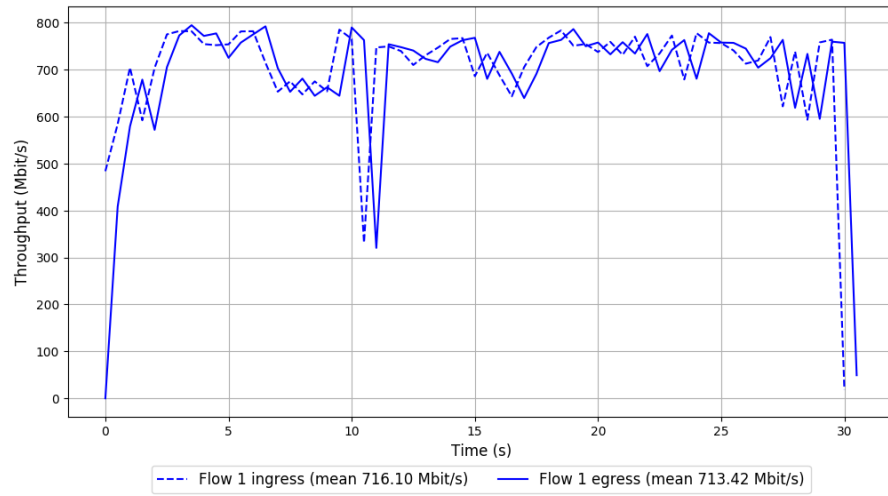
-- Flow 1:

Average throughput: 713.42 Mbit/s

95th percentile per-packet one-way delay: 33.938 ms

Loss rate: 0.37%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

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

End at: 2018-07-24 10:50:40

Local clock offset: 4.778 ms

Remote clock offset: 0.617 ms

Below is generated by plot.py at 2018-07-24 11:26:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 690.52 Mbit/s

95th percentile per-packet one-way delay: 34.353 ms

Loss rate: 0.77%

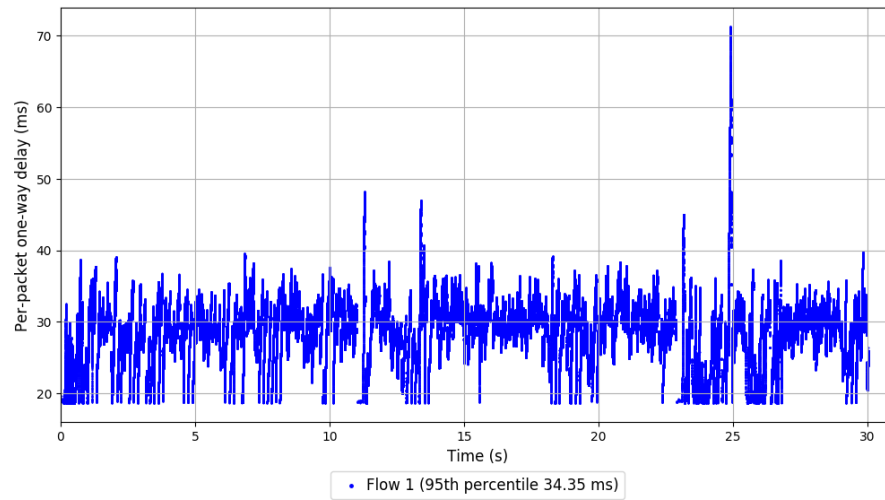
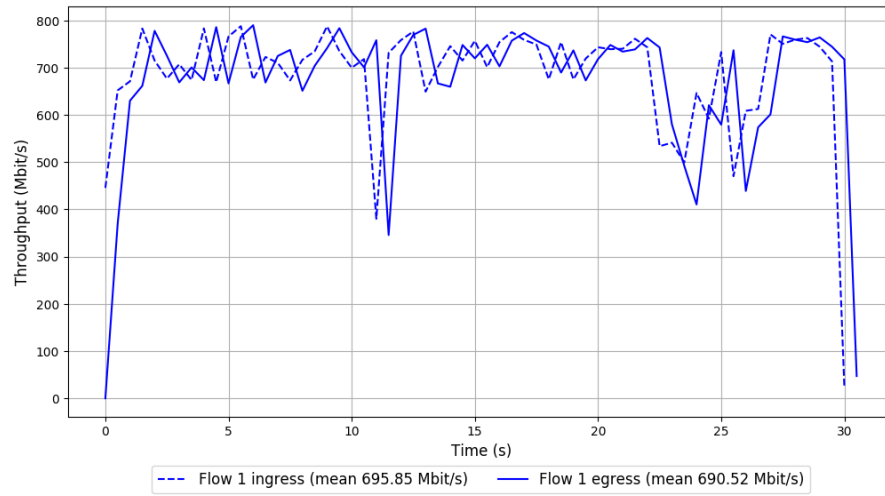
-- Flow 1:

Average throughput: 690.52 Mbit/s

95th percentile per-packet one-way delay: 34.353 ms

Loss rate: 0.77%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2018-07-24 06:41:42

End at: 2018-07-24 06:42:12

Local clock offset: 7.253 ms

Remote clock offset: 2.47 ms

Below is generated by plot.py at 2018-07-24 11:26:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 342.75 Mbit/s

95th percentile per-packet one-way delay: 21.214 ms

Loss rate: 0.00%

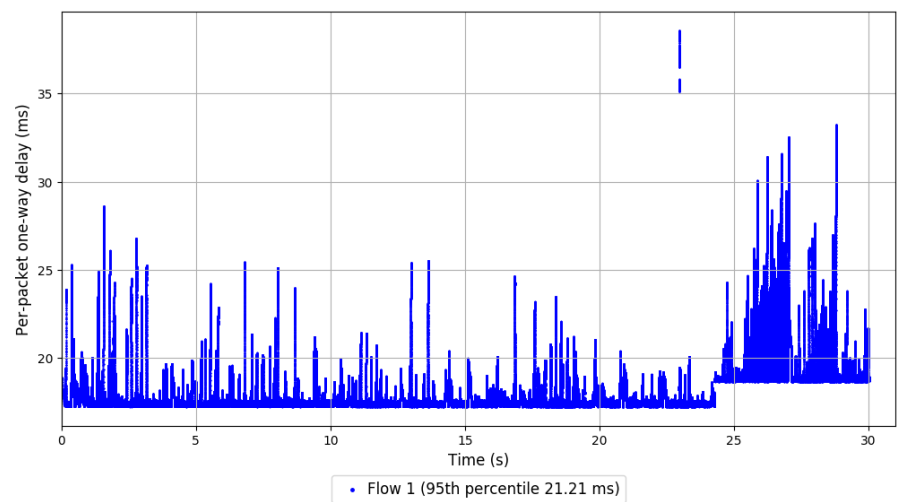
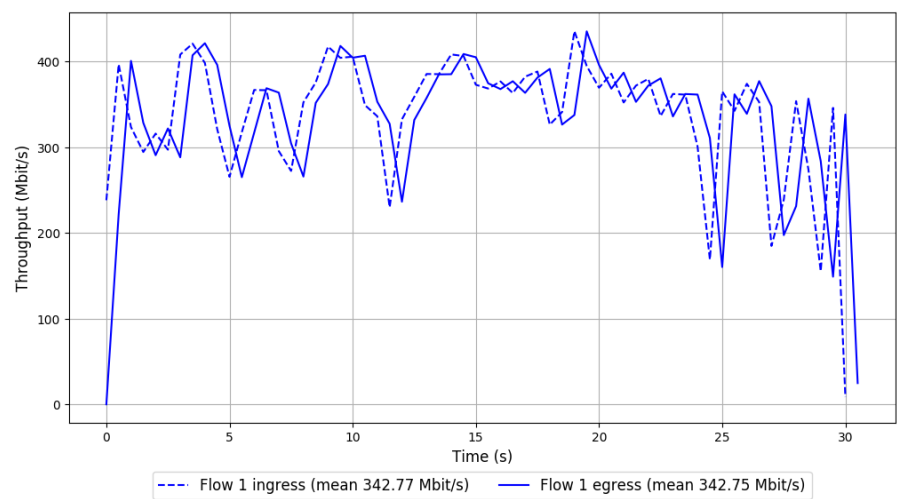
-- Flow 1:

Average throughput: 342.75 Mbit/s

95th percentile per-packet one-way delay: 21.214 ms

Loss rate: 0.00%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

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

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

Local clock offset: 6.427 ms

Remote clock offset: 2.638 ms

Below is generated by plot.py at 2018-07-24 11:26:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 352.12 Mbit/s

95th percentile per-packet one-way delay: 20.664 ms

Loss rate: 0.00%

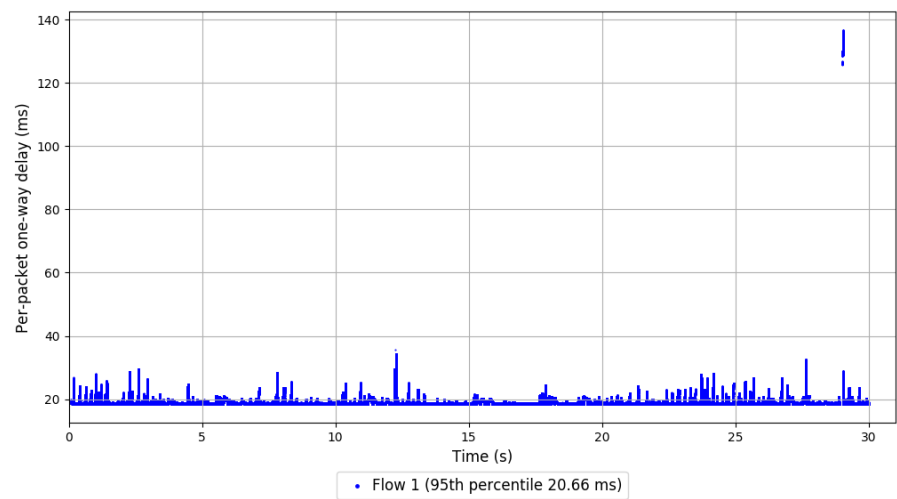
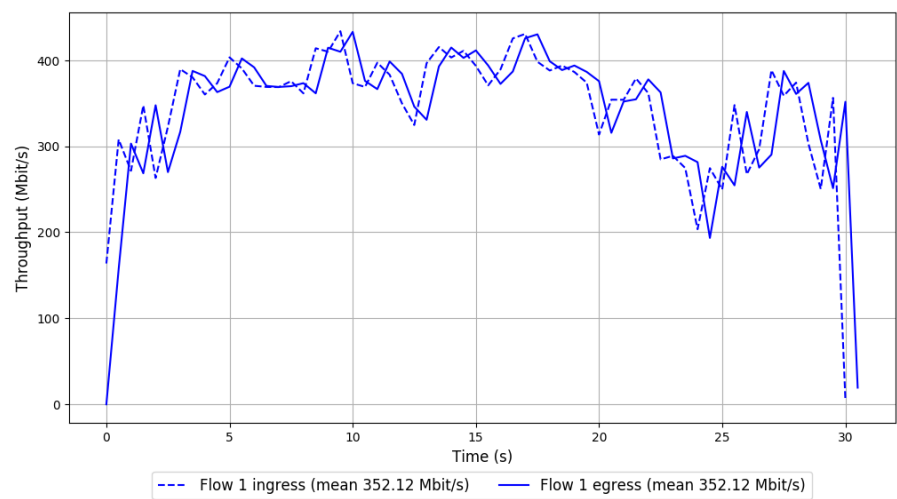
-- Flow 1:

Average throughput: 352.12 Mbit/s

95th percentile per-packet one-way delay: 20.664 ms

Loss rate: 0.00%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-07-24 07:32:57

End at: 2018-07-24 07:33:27

Local clock offset: 6.039 ms

Remote clock offset: 2.294 ms

Below is generated by plot.py at 2018-07-24 11:26:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 366.81 Mbit/s

95th percentile per-packet one-way delay: 20.729 ms

Loss rate: 0.01%

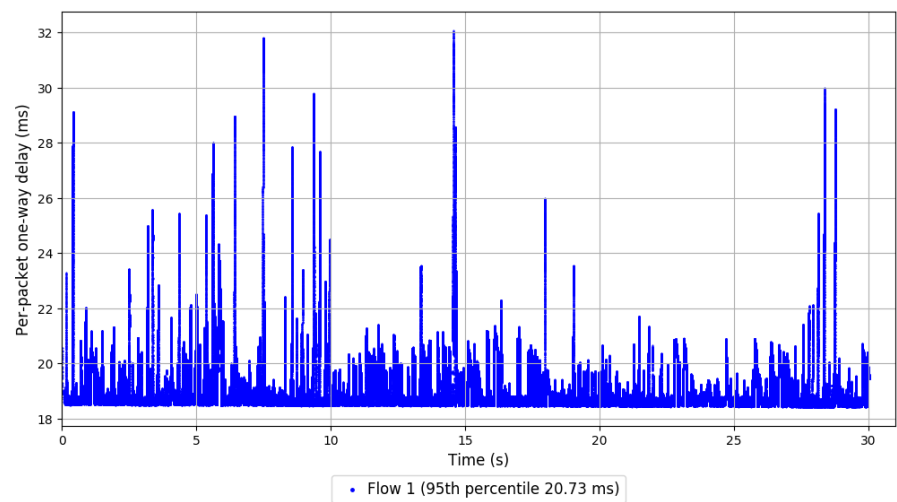
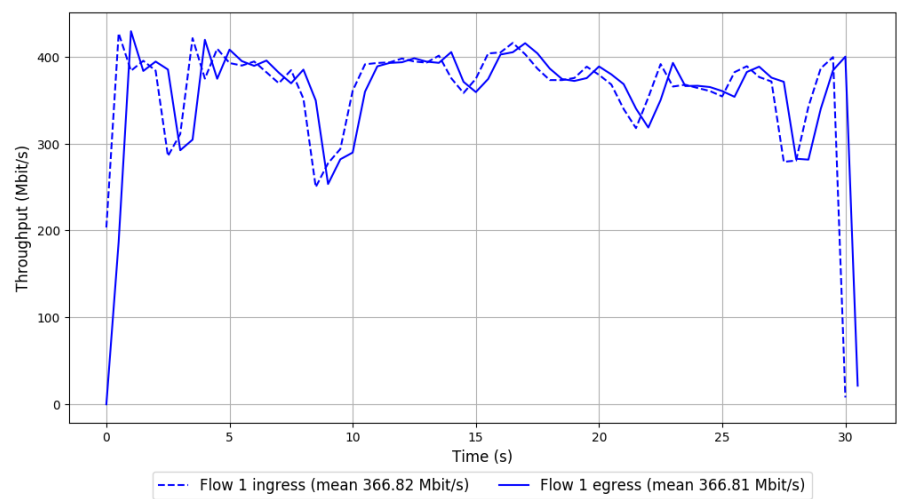
-- Flow 1:

Average throughput: 366.81 Mbit/s

95th percentile per-packet one-way delay: 20.729 ms

Loss rate: 0.01%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-07-24 07:58:43

End at: 2018-07-24 07:59:13

Local clock offset: 4.894 ms

Remote clock offset: 1.754 ms

Below is generated by plot.py at 2018-07-24 11:26:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 367.22 Mbit/s

95th percentile per-packet one-way delay: 21.698 ms

Loss rate: 0.00%

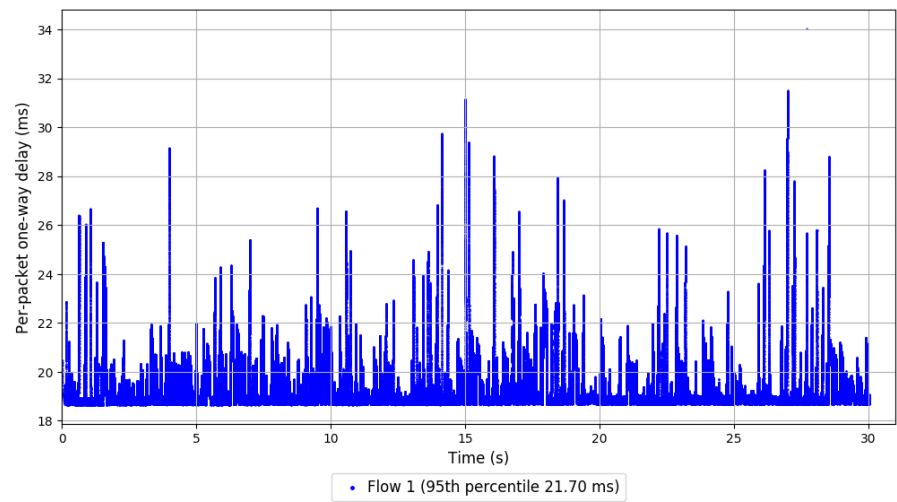
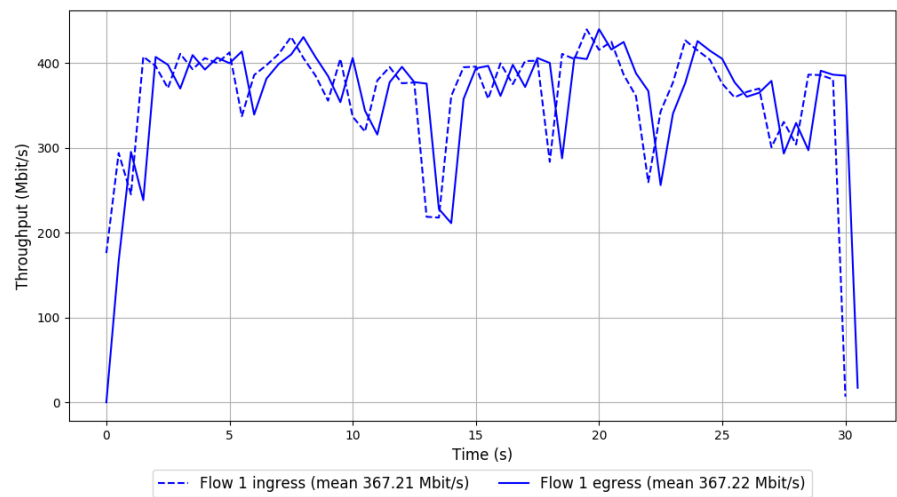
-- Flow 1:

Average throughput: 367.22 Mbit/s

95th percentile per-packet one-way delay: 21.698 ms

Loss rate: 0.00%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

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

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

Local clock offset: 4.515 ms

Remote clock offset: 1.294 ms

Below is generated by plot.py at 2018-07-24 11:26:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 352.62 Mbit/s

95th percentile per-packet one-way delay: 20.948 ms

Loss rate: 0.13%

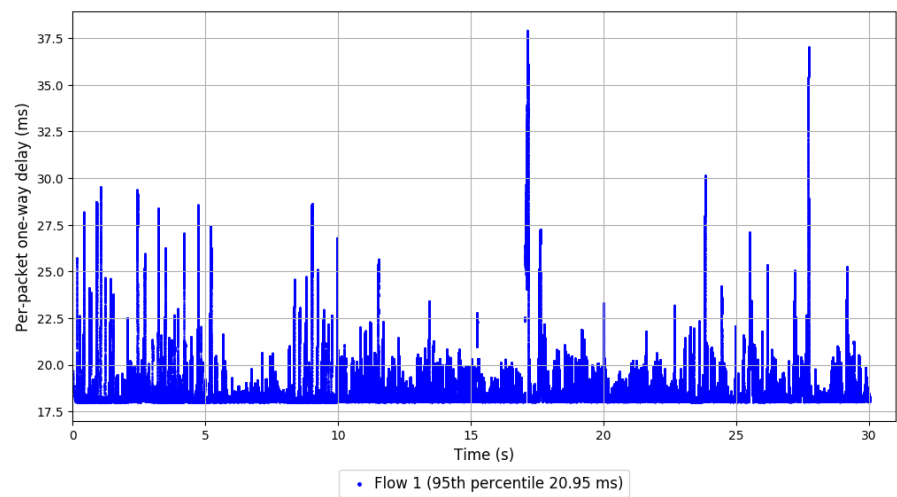
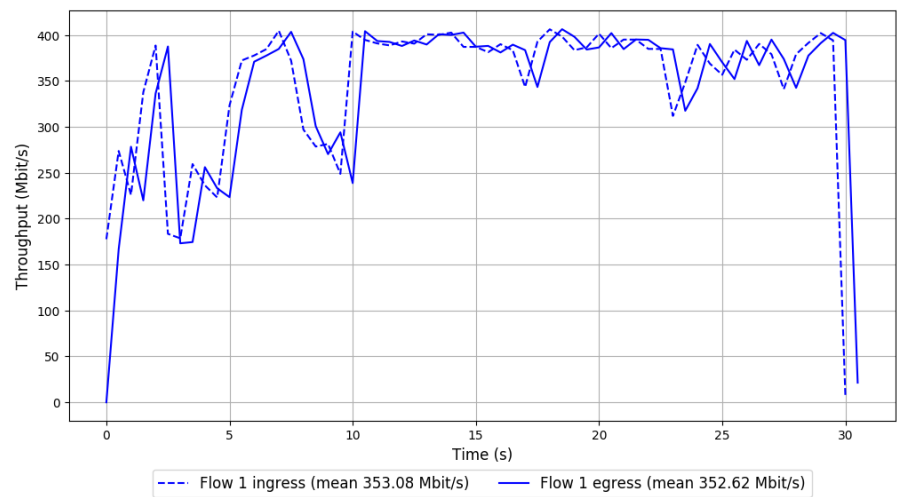
-- Flow 1:

Average throughput: 352.62 Mbit/s

95th percentile per-packet one-way delay: 20.948 ms

Loss rate: 0.13%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-07-24 08:49:31

End at: 2018-07-24 08:50:02

Local clock offset: 3.56 ms

Remote clock offset: 0.943 ms

Below is generated by plot.py at 2018-07-24 11:26:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 358.95 Mbit/s

95th percentile per-packet one-way delay: 21.289 ms

Loss rate: 0.01%

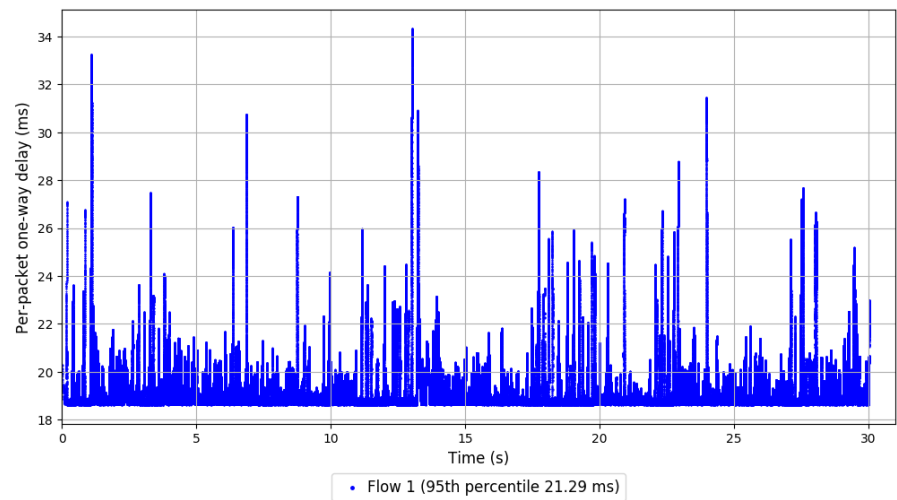
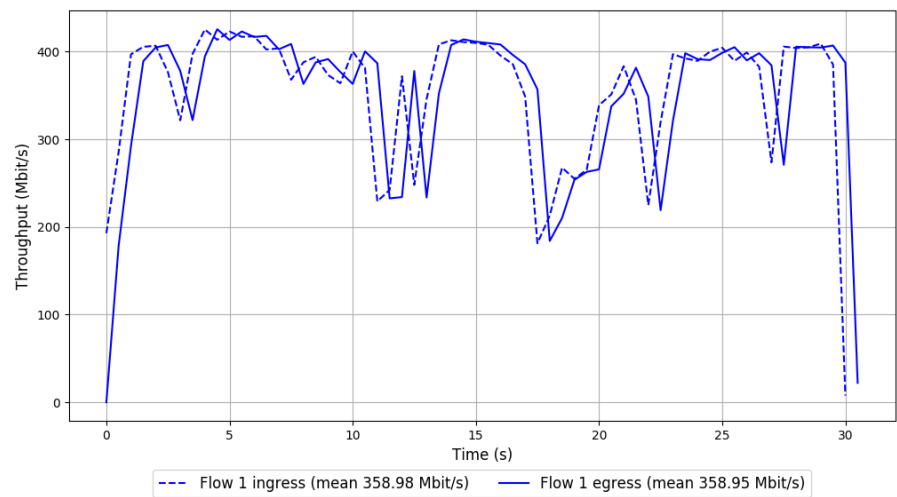
-- Flow 1:

Average throughput: 358.95 Mbit/s

95th percentile per-packet one-way delay: 21.289 ms

Loss rate: 0.01%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-07-24 09:15:14

End at: 2018-07-24 09:15:44

Local clock offset: 3.426 ms

Remote clock offset: 0.812 ms

Below is generated by plot.py at 2018-07-24 11:33:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 384.97 Mbit/s

95th percentile per-packet one-way delay: 20.748 ms

Loss rate: 0.01%

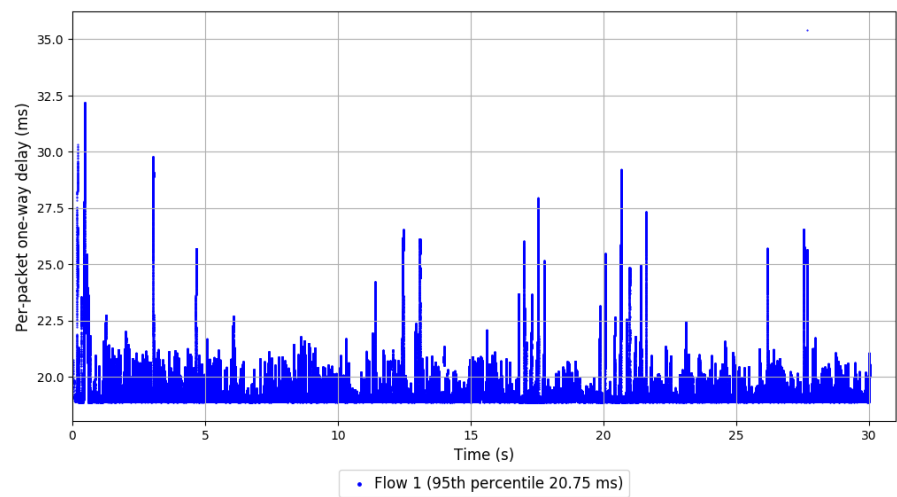
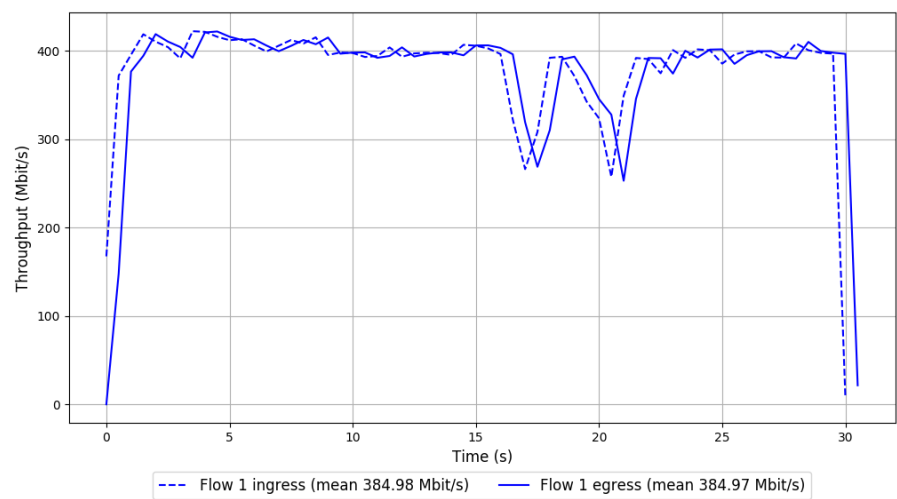
-- Flow 1:

Average throughput: 384.97 Mbit/s

95th percentile per-packet one-way delay: 20.748 ms

Loss rate: 0.01%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-07-24 09:40:46

End at: 2018-07-24 09:41:16

Local clock offset: 4.079 ms

Remote clock offset: 0.756 ms

Below is generated by plot.py at 2018-07-24 11:33:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 383.85 Mbit/s

95th percentile per-packet one-way delay: 20.994 ms

Loss rate: 0.01%

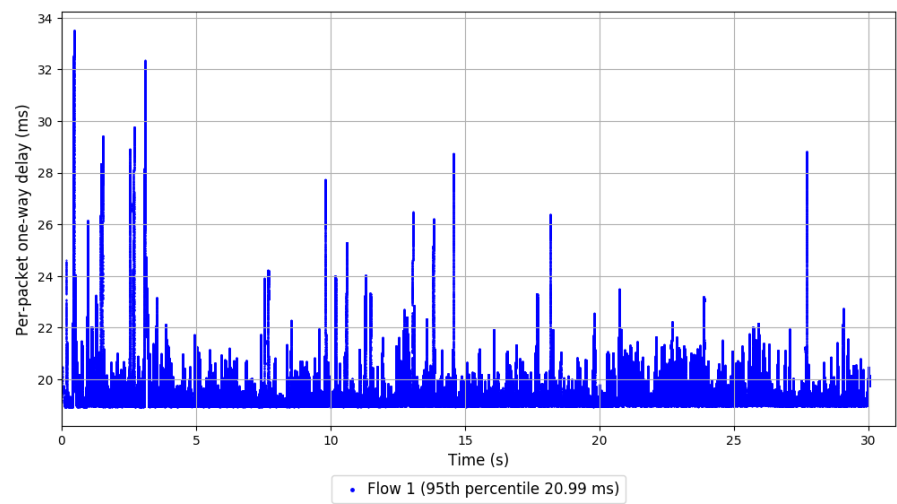
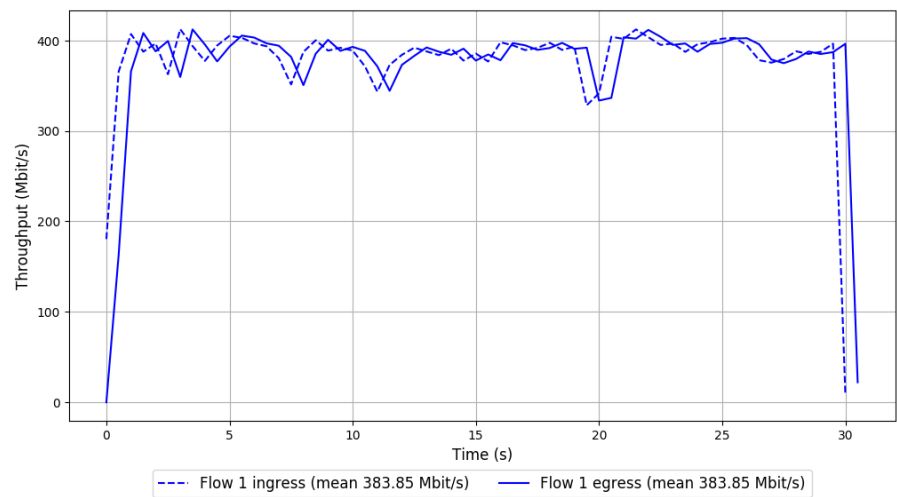
-- Flow 1:

Average throughput: 383.85 Mbit/s

95th percentile per-packet one-way delay: 20.994 ms

Loss rate: 0.01%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-07-24 10:06:26

End at: 2018-07-24 10:06:56

Local clock offset: 4.582 ms

Remote clock offset: 0.677 ms

Below is generated by plot.py at 2018-07-24 11:33:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 371.61 Mbit/s

95th percentile per-packet one-way delay: 20.396 ms

Loss rate: 0.00%

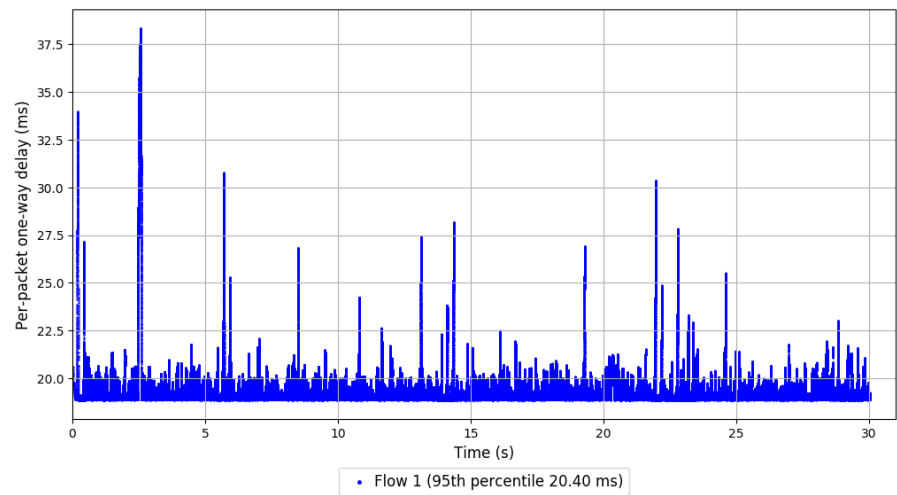
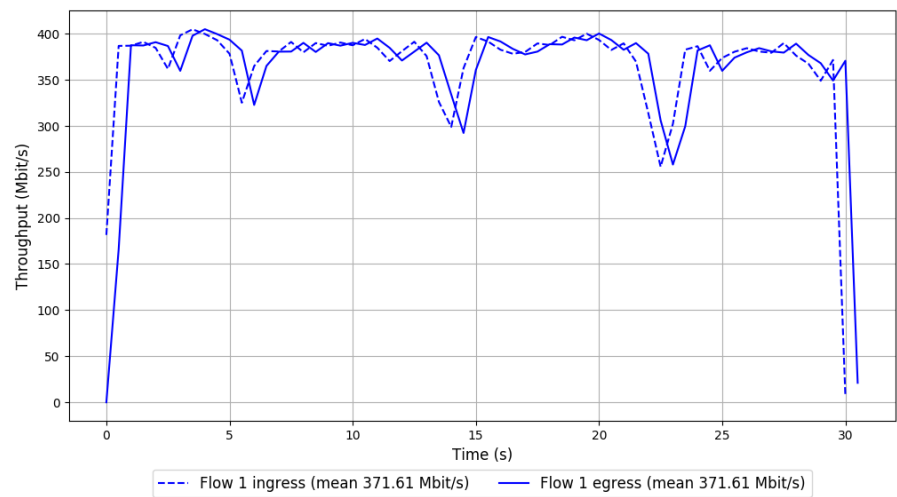
-- Flow 1:

Average throughput: 371.61 Mbit/s

95th percentile per-packet one-way delay: 20.396 ms

Loss rate: 0.00%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-07-24 10:32:15

End at: 2018-07-24 10:32:45

Local clock offset: 4.716 ms

Remote clock offset: 0.618 ms

Below is generated by plot.py at 2018-07-24 11:33:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 320.81 Mbit/s

95th percentile per-packet one-way delay: 20.064 ms

Loss rate: 0.24%

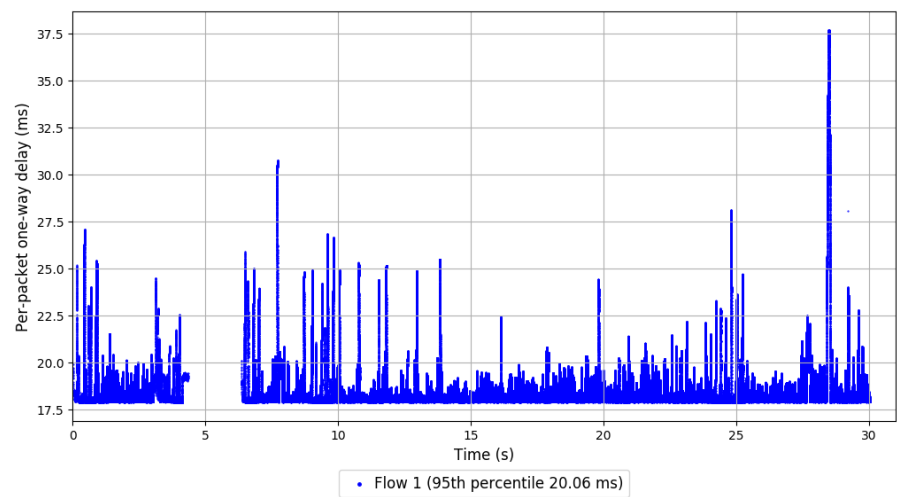
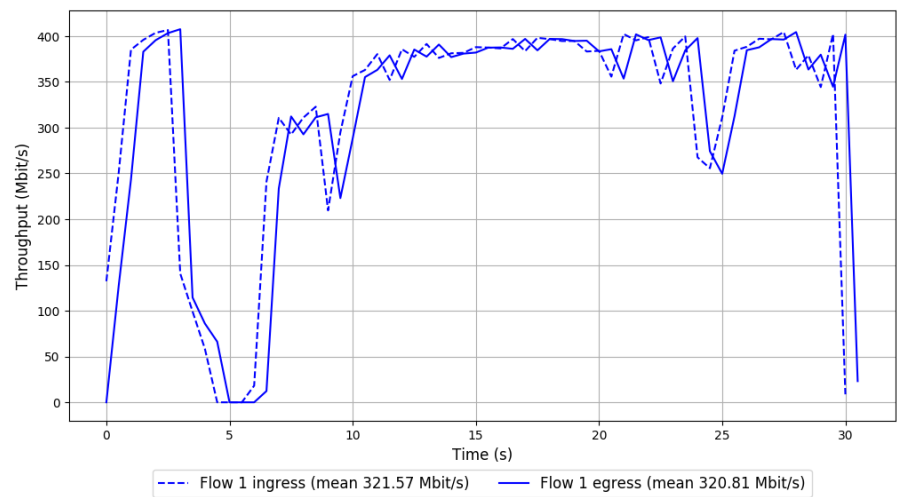
-- Flow 1:

Average throughput: 320.81 Mbit/s

95th percentile per-packet one-way delay: 20.064 ms

Loss rate: 0.24%

Run 10: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-07-24 07:05:57

End at: 2018-07-24 07:06:27

Local clock offset: 6.71 ms

Remote clock offset: 2.708 ms

Below is generated by plot.py at 2018-07-24 11:33:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 433.02 Mbit/s

95th percentile per-packet one-way delay: 23.632 ms

Loss rate: 0.13%

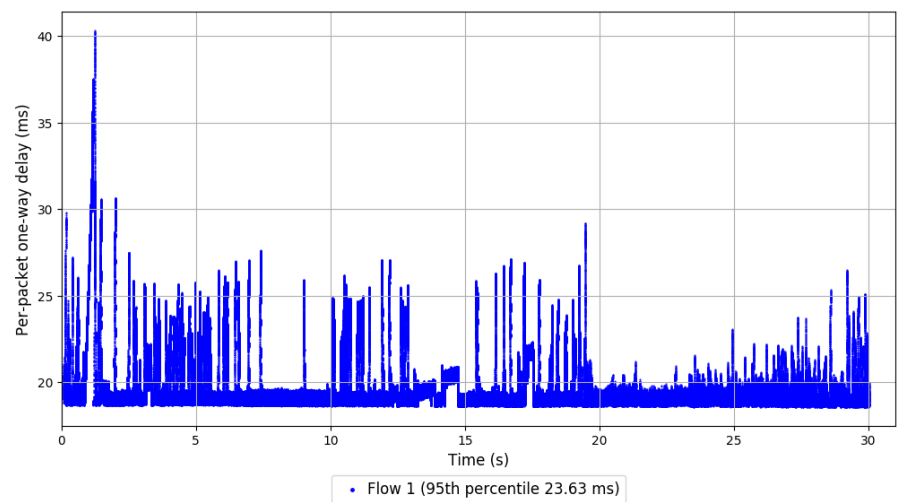
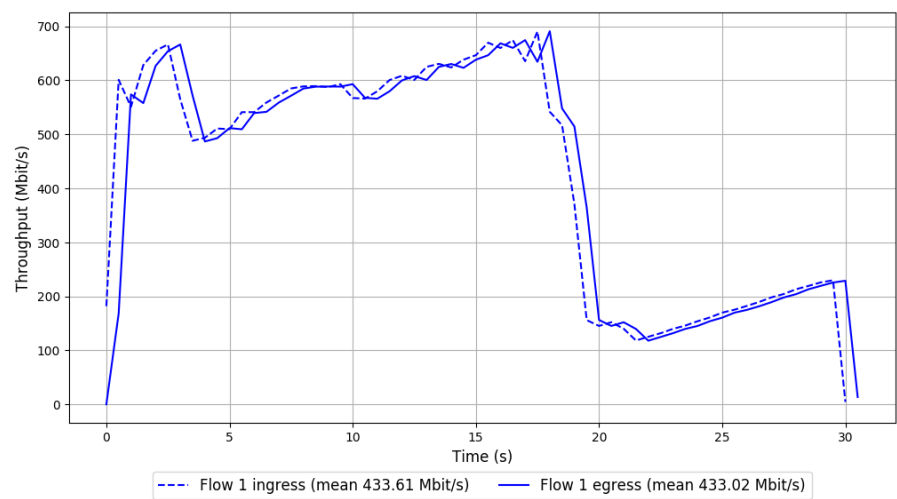
-- Flow 1:

Average throughput: 433.02 Mbit/s

95th percentile per-packet one-way delay: 23.632 ms

Loss rate: 0.13%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

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

End at: 2018-07-24 07:31:54

Local clock offset: 6.077 ms

Remote clock offset: 2.275 ms

Below is generated by plot.py at 2018-07-24 11:33:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 495.20 Mbit/s

95th percentile per-packet one-way delay: 23.891 ms

Loss rate: 0.12%

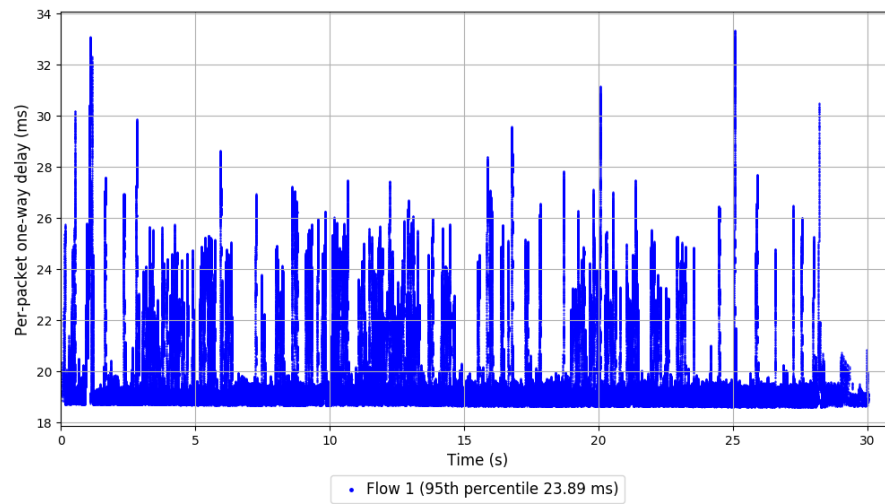
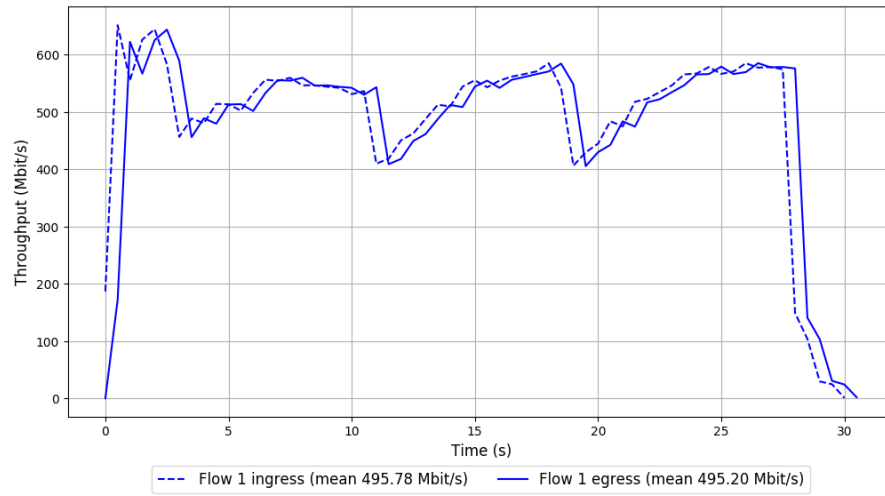
-- Flow 1:

Average throughput: 495.20 Mbit/s

95th percentile per-packet one-way delay: 23.891 ms

Loss rate: 0.12%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-07-24 07:57:15

End at: 2018-07-24 07:57:45

Local clock offset: 4.864 ms

Remote clock offset: 1.757 ms

Below is generated by plot.py at 2018-07-24 11:33:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 312.98 Mbit/s

95th percentile per-packet one-way delay: 23.243 ms

Loss rate: 0.27%

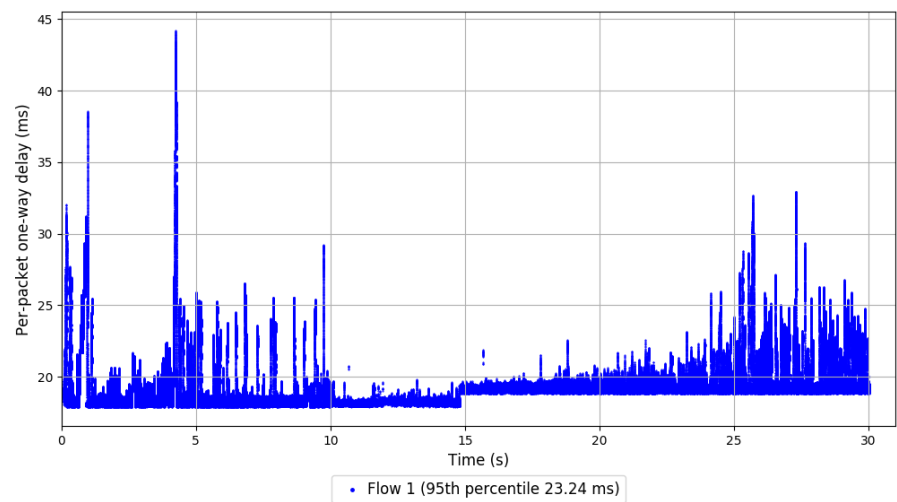
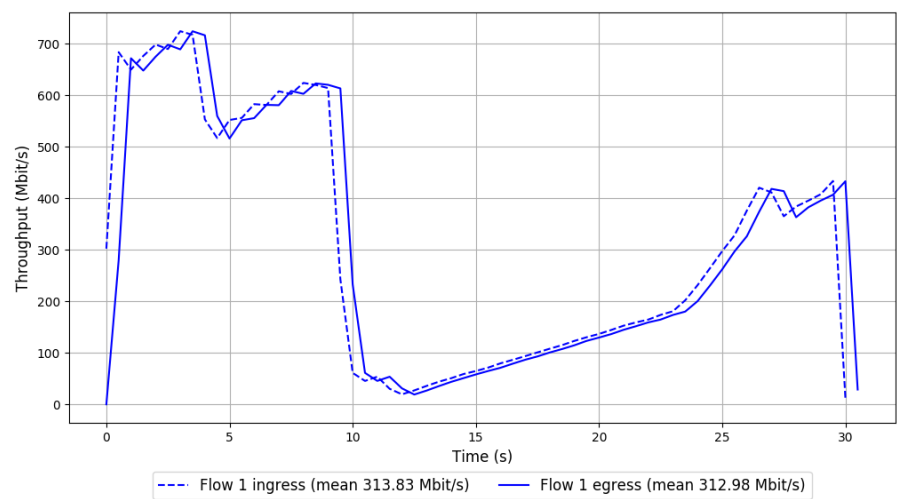
-- Flow 1:

Average throughput: 312.98 Mbit/s

95th percentile per-packet one-way delay: 23.243 ms

Loss rate: 0.27%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-07-24 08:22:51

End at: 2018-07-24 08:23:21

Local clock offset: 4.433 ms

Remote clock offset: 1.183 ms

Below is generated by plot.py at 2018-07-24 11:33:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 373.39 Mbit/s

95th percentile per-packet one-way delay: 24.043 ms

Loss rate: 0.05%

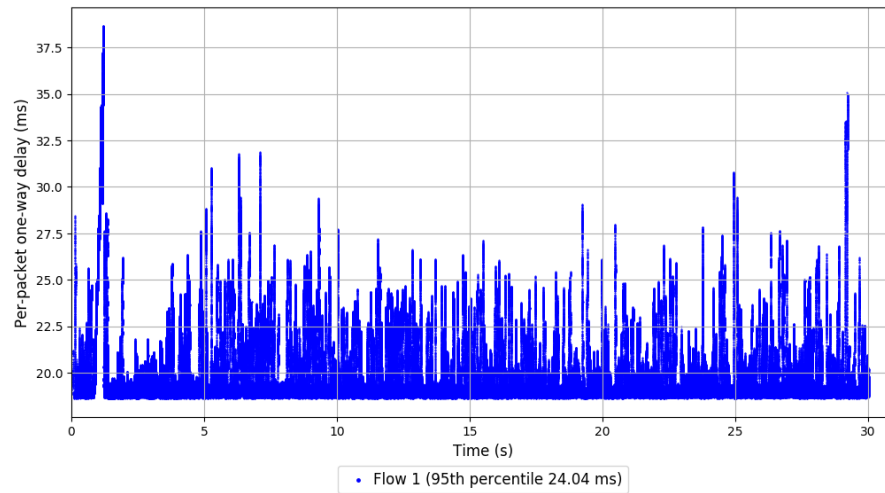
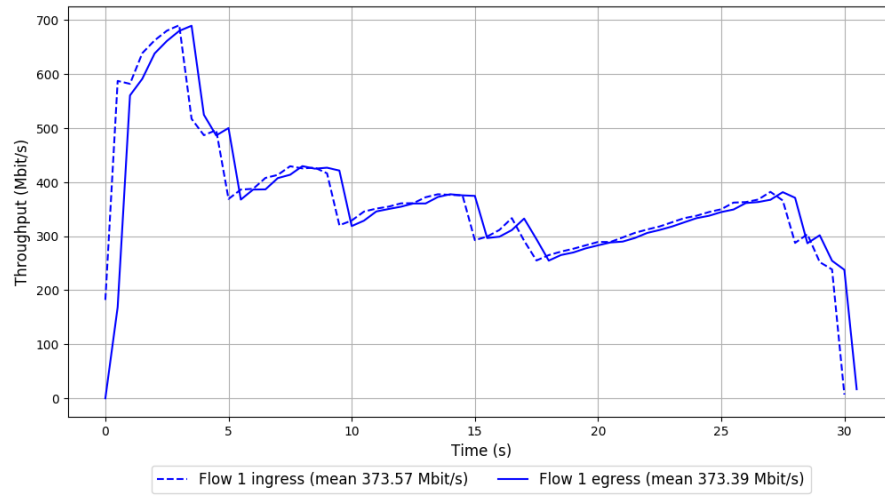
-- Flow 1:

Average throughput: 373.39 Mbit/s

95th percentile per-packet one-way delay: 24.043 ms

Loss rate: 0.05%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-07-24 08:48:03

End at: 2018-07-24 08:48:33

Local clock offset: 3.591 ms

Remote clock offset: 0.92 ms

Below is generated by plot.py at 2018-07-24 11:33:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 373.70 Mbit/s

95th percentile per-packet one-way delay: 22.812 ms

Loss rate: 0.08%

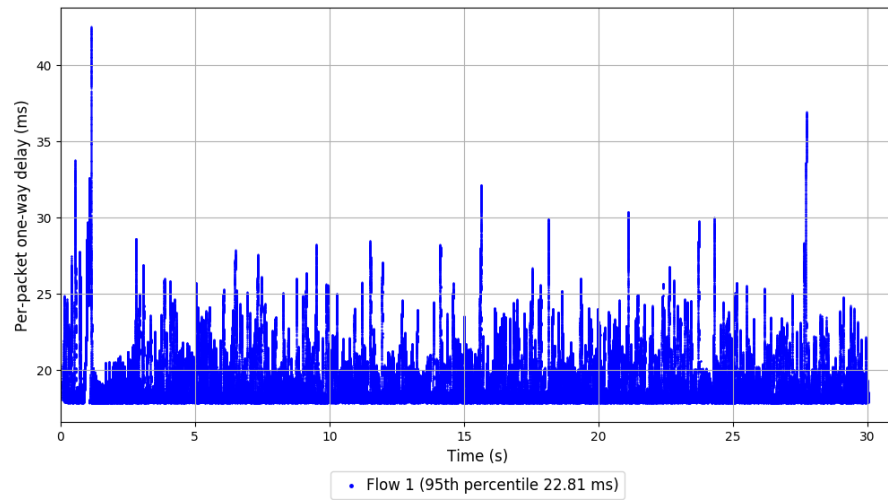
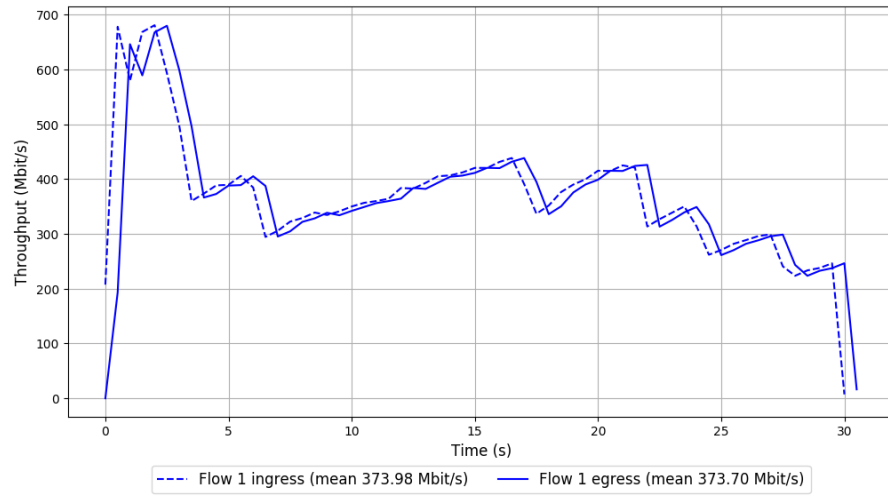
-- Flow 1:

Average throughput: 373.70 Mbit/s

95th percentile per-packet one-way delay: 22.812 ms

Loss rate: 0.08%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-07-24 09:13:49

End at: 2018-07-24 09:14:19

Local clock offset: 3.429 ms

Remote clock offset: 0.854 ms

Below is generated by plot.py at 2018-07-24 11:33:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 242.00 Mbit/s

95th percentile per-packet one-way delay: 23.138 ms

Loss rate: 0.12%

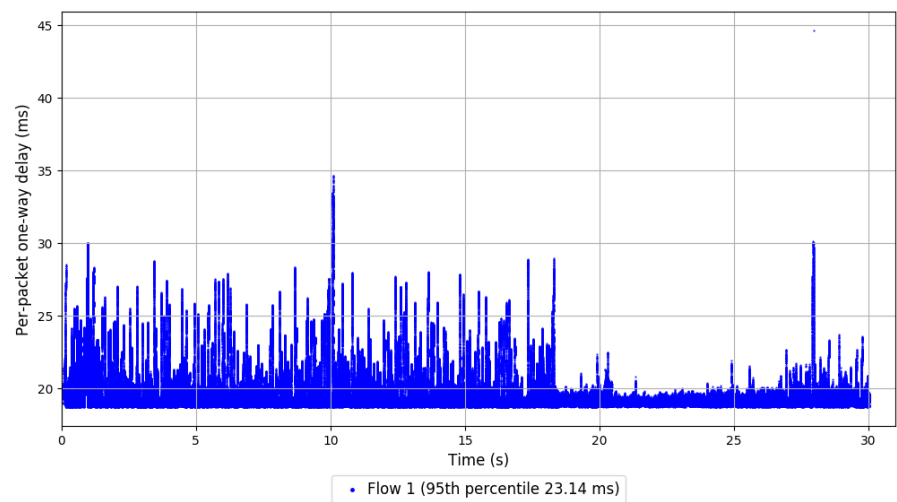
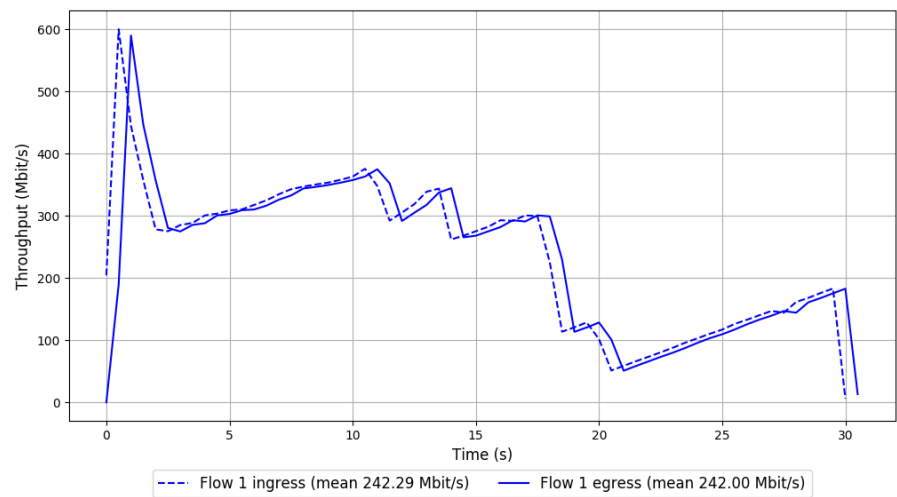
-- Flow 1:

Average throughput: 242.00 Mbit/s

95th percentile per-packet one-way delay: 23.138 ms

Loss rate: 0.12%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-07-24 09:39:21

End at: 2018-07-24 09:39:51

Local clock offset: 4.021 ms

Remote clock offset: 0.73 ms

Below is generated by plot.py at 2018-07-24 11:33:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 256.95 Mbit/s

95th percentile per-packet one-way delay: 22.520 ms

Loss rate: 0.10%

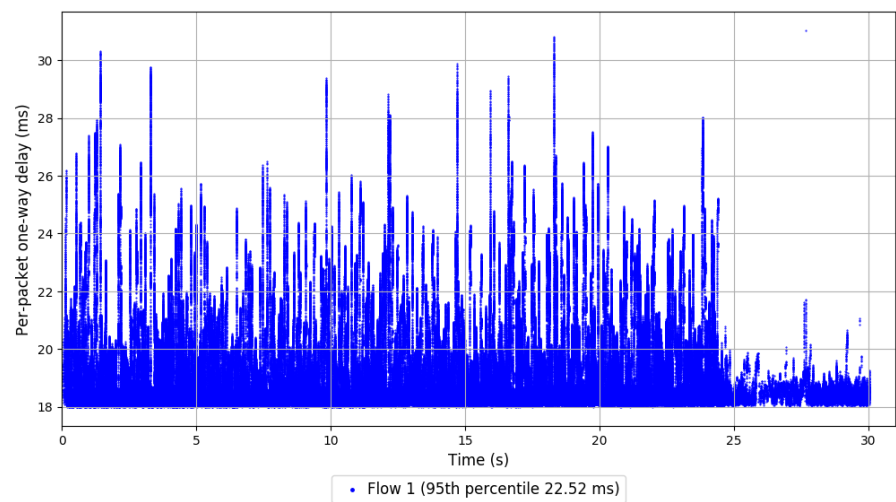
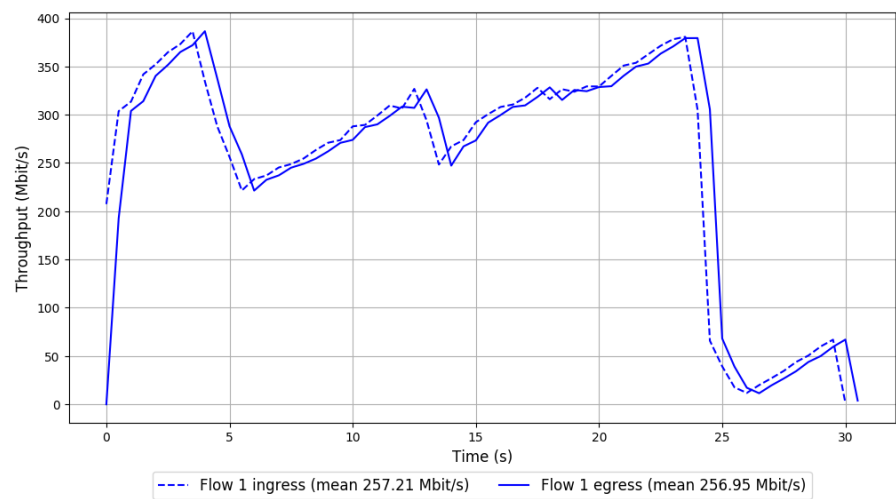
-- Flow 1:

Average throughput: 256.95 Mbit/s

95th percentile per-packet one-way delay: 22.520 ms

Loss rate: 0.10%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-07-24 10:04:57

End at: 2018-07-24 10:05:27

Local clock offset: 4.511 ms

Remote clock offset: 0.65 ms

Below is generated by plot.py at 2018-07-24 11:35:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 345.51 Mbit/s

95th percentile per-packet one-way delay: 23.898 ms

Loss rate: 0.15%

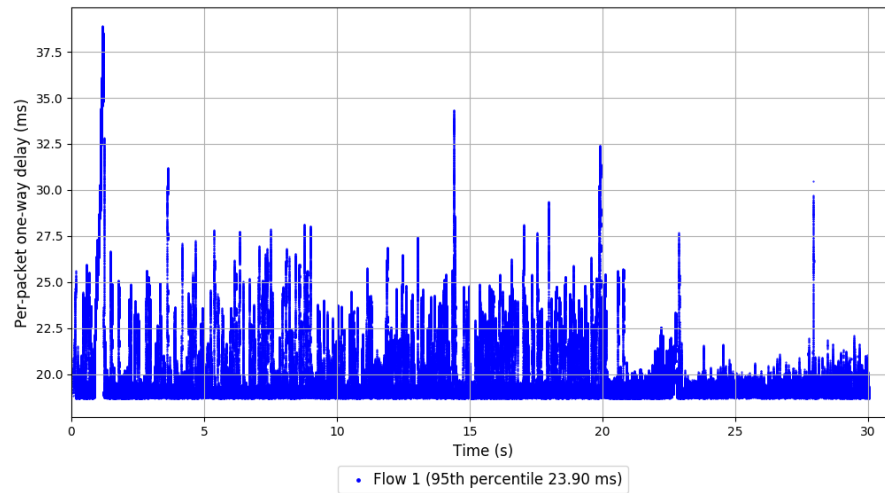
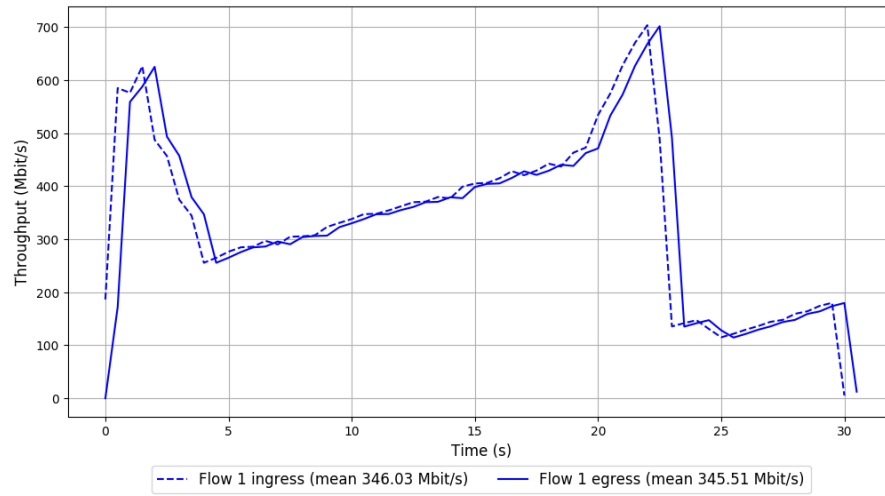
-- Flow 1:

Average throughput: 345.51 Mbit/s

95th percentile per-packet one-way delay: 23.898 ms

Loss rate: 0.15%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-07-24 10:30:45

End at: 2018-07-24 10:31:15

Local clock offset: 4.708 ms

Remote clock offset: 0.68 ms

Below is generated by plot.py at 2018-07-24 11:36:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 388.95 Mbit/s

95th percentile per-packet one-way delay: 23.615 ms

Loss rate: 0.04%

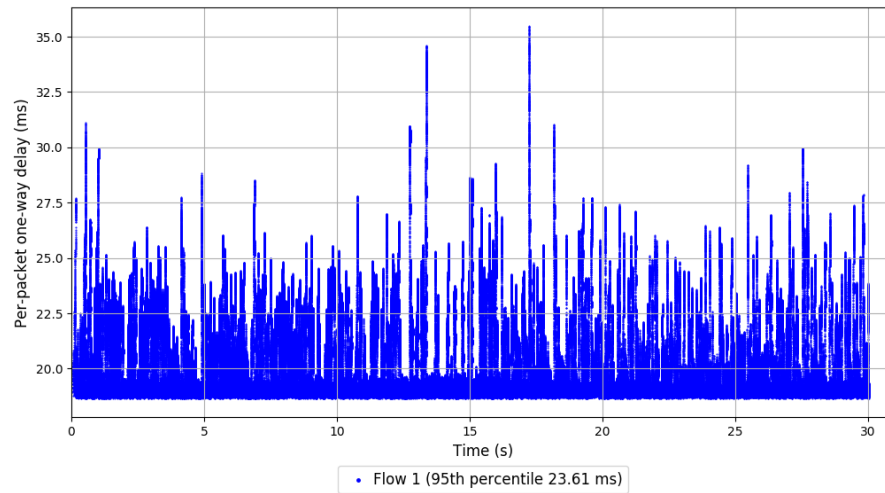
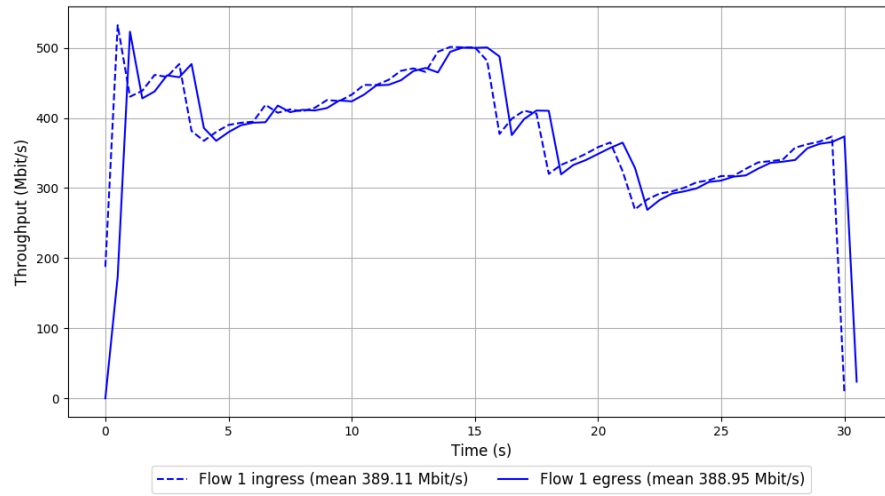
-- Flow 1:

Average throughput: 388.95 Mbit/s

95th percentile per-packet one-way delay: 23.615 ms

Loss rate: 0.04%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-07-24 10:56:28

End at: 2018-07-24 10:56:58

Local clock offset: 4.832 ms

Remote clock offset: 0.663 ms

Below is generated by plot.py at 2018-07-24 11:36:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 293.59 Mbit/s

95th percentile per-packet one-way delay: 21.537 ms

Loss rate: 0.11%

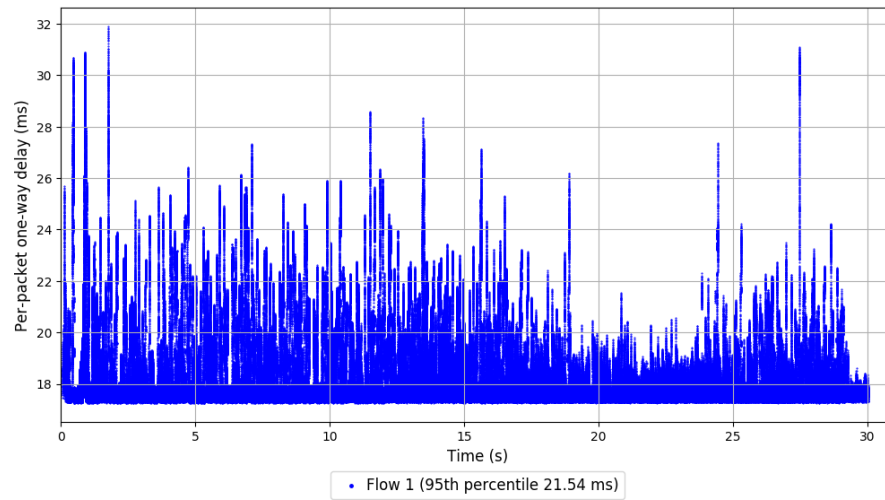
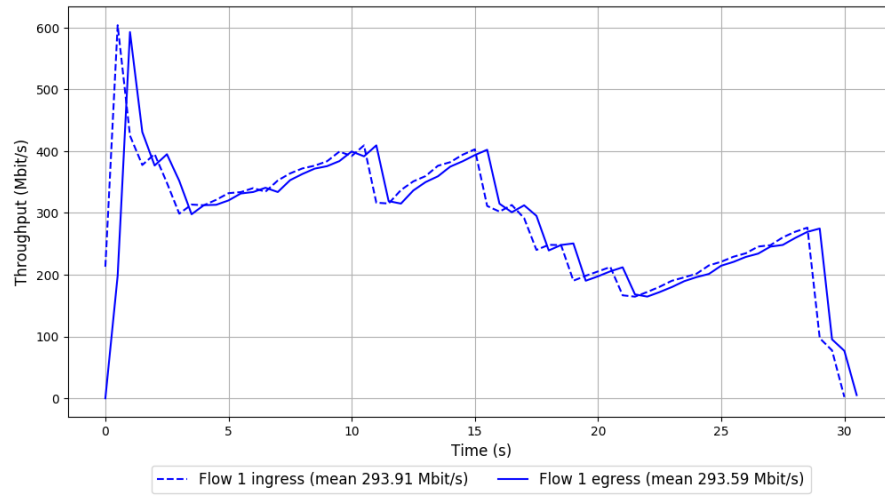
-- Flow 1:

Average throughput: 293.59 Mbit/s

95th percentile per-packet one-way delay: 21.537 ms

Loss rate: 0.11%

Run 10: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2018-07-24 06:47:15

End at: 2018-07-24 06:47:45

Local clock offset: 7.037 ms

Remote clock offset: 2.377 ms

Below is generated by plot.py at 2018-07-24 11:45:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 848.35 Mbit/s

95th percentile per-packet one-way delay: 95.374 ms

Loss rate: 3.56%

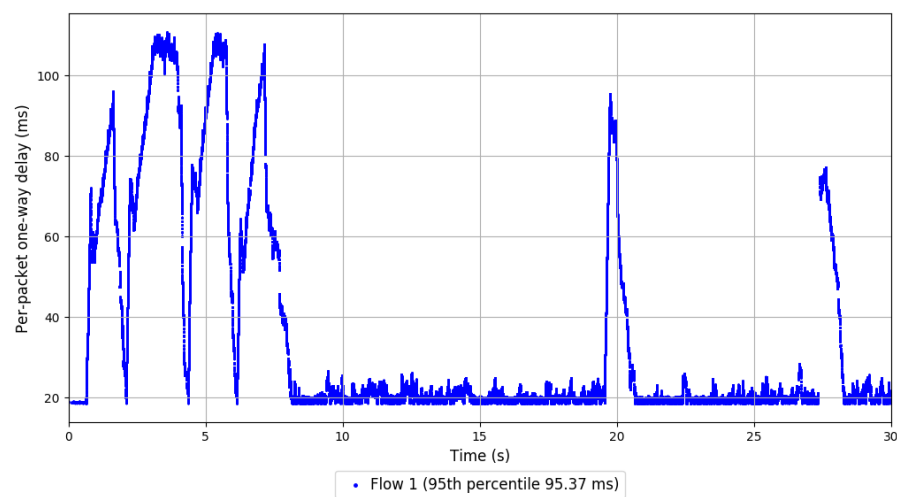
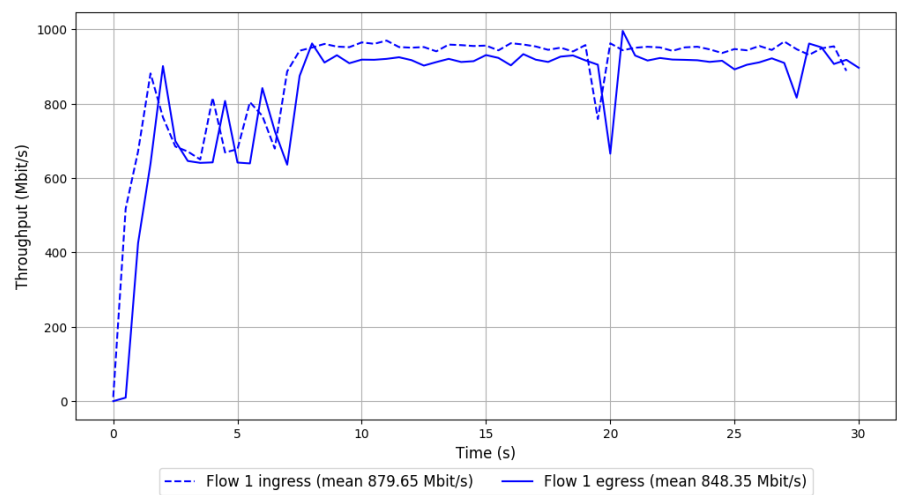
-- Flow 1:

Average throughput: 848.35 Mbit/s

95th percentile per-packet one-way delay: 95.374 ms

Loss rate: 3.56%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-07-24 07:13:03

End at: 2018-07-24 07:13:33

Local clock offset: 5.791 ms

Remote clock offset: 2.624 ms

Below is generated by plot.py at 2018-07-24 11:45:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 810.89 Mbit/s

95th percentile per-packet one-way delay: 103.907 ms

Loss rate: 3.08%

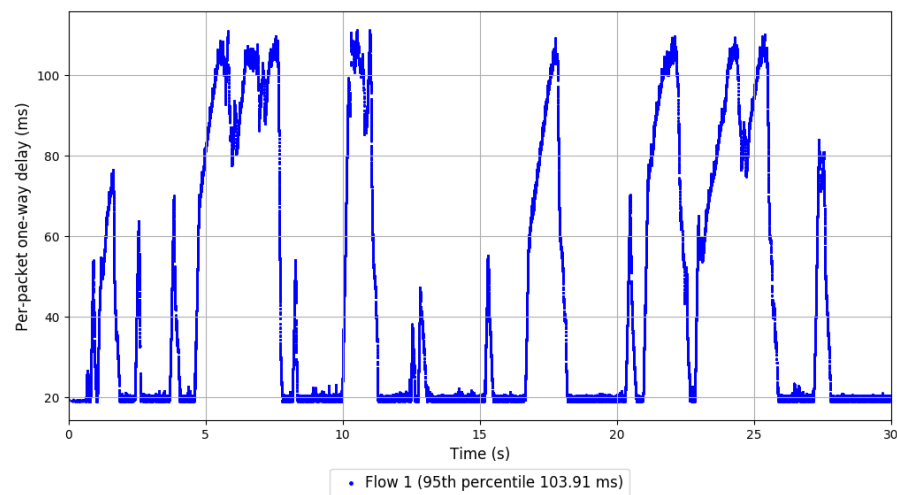
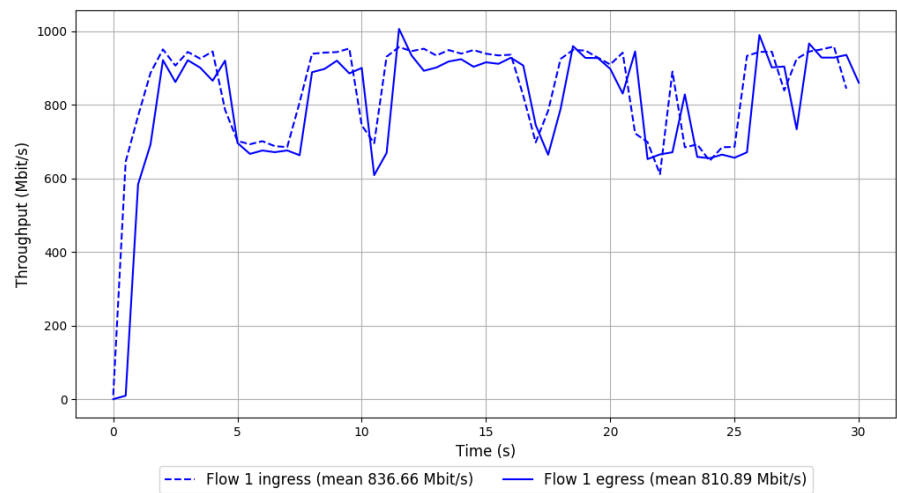
-- Flow 1:

Average throughput: 810.89 Mbit/s

95th percentile per-packet one-way delay: 103.907 ms

Loss rate: 3.08%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-07-24 07:38:33

End at: 2018-07-24 07:39:03

Local clock offset: 5.109 ms

Remote clock offset: 2.226 ms

Below is generated by plot.py at 2018-07-24 11:45:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 811.89 Mbit/s

95th percentile per-packet one-way delay: 101.568 ms

Loss rate: 3.16%

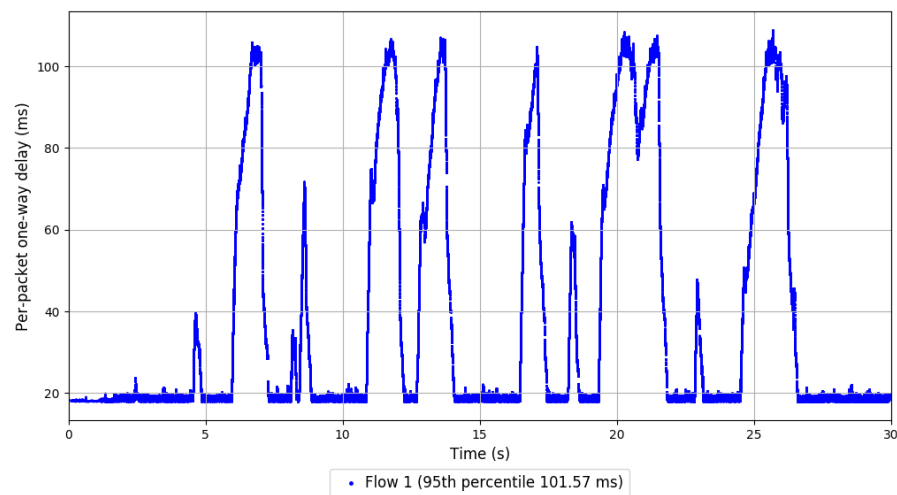
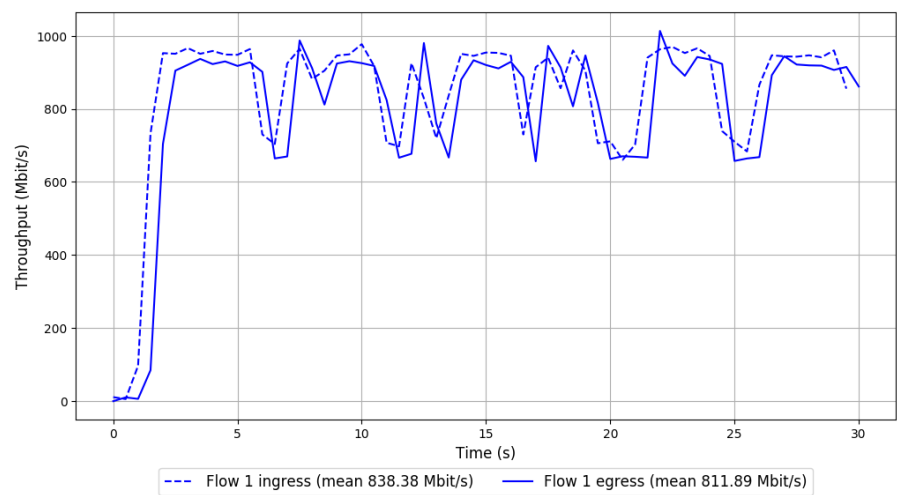
-- Flow 1:

Average throughput: 811.89 Mbit/s

95th percentile per-packet one-way delay: 101.568 ms

Loss rate: 3.16%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-07-24 08:04:19

End at: 2018-07-24 08:04:49

Local clock offset: 4.79 ms

Remote clock offset: 1.592 ms

Below is generated by plot.py at 2018-07-24 11:45:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 790.08 Mbit/s

95th percentile per-packet one-way delay: 106.442 ms

Loss rate: 3.56%

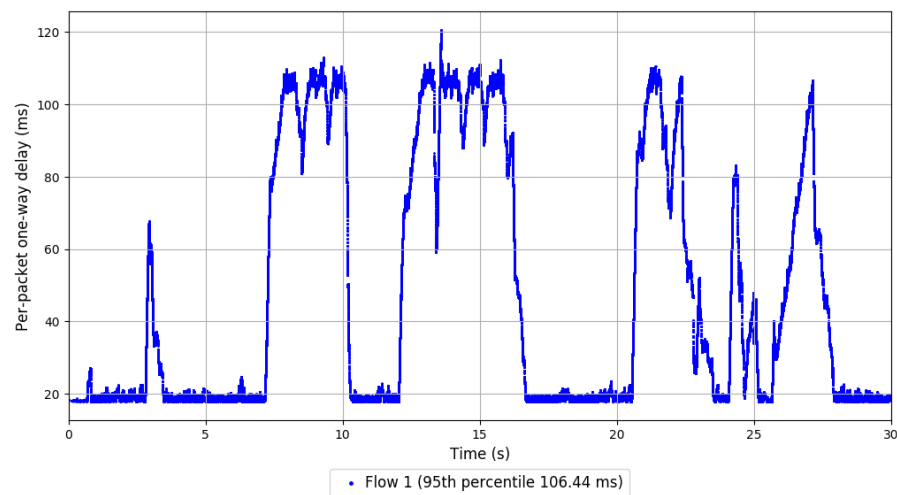
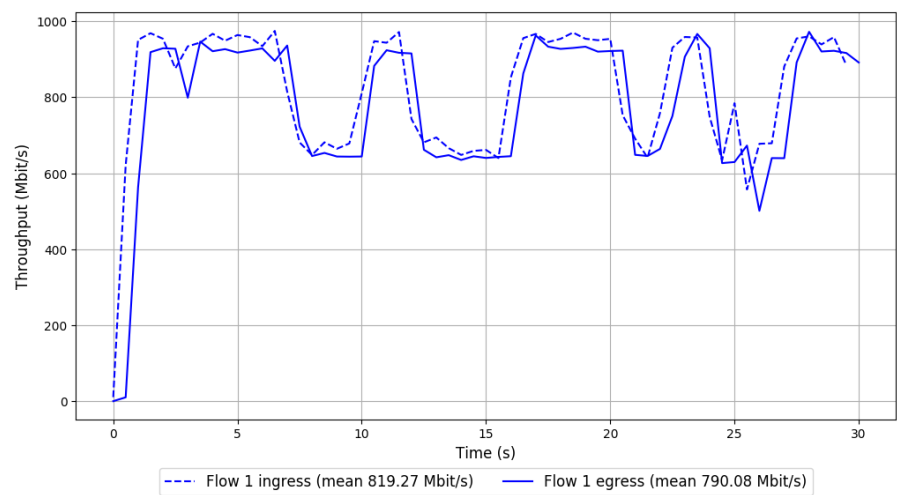
-- Flow 1:

Average throughput: 790.08 Mbit/s

95th percentile per-packet one-way delay: 106.442 ms

Loss rate: 3.56%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-07-24 08:29:55

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

Local clock offset: 4.527 ms

Remote clock offset: 1.17 ms

Below is generated by plot.py at 2018-07-24 11:45:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 793.14 Mbit/s

95th percentile per-packet one-way delay: 108.570 ms

Loss rate: 7.37%

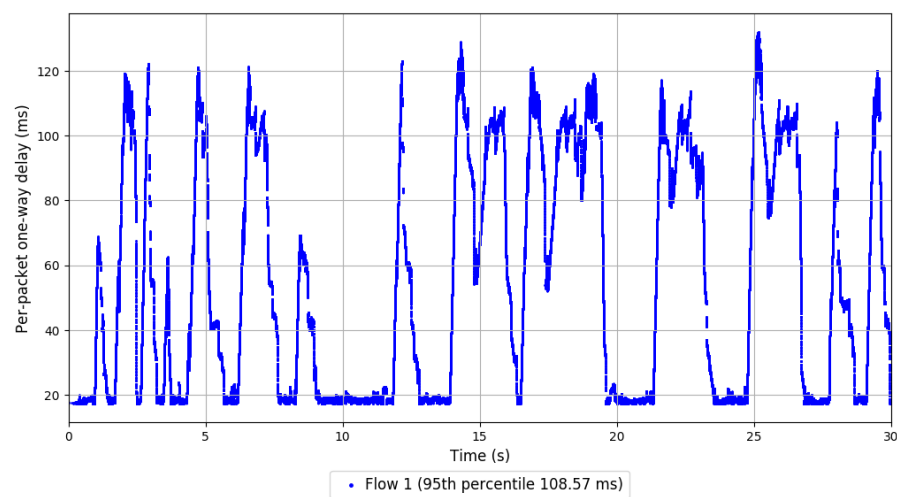
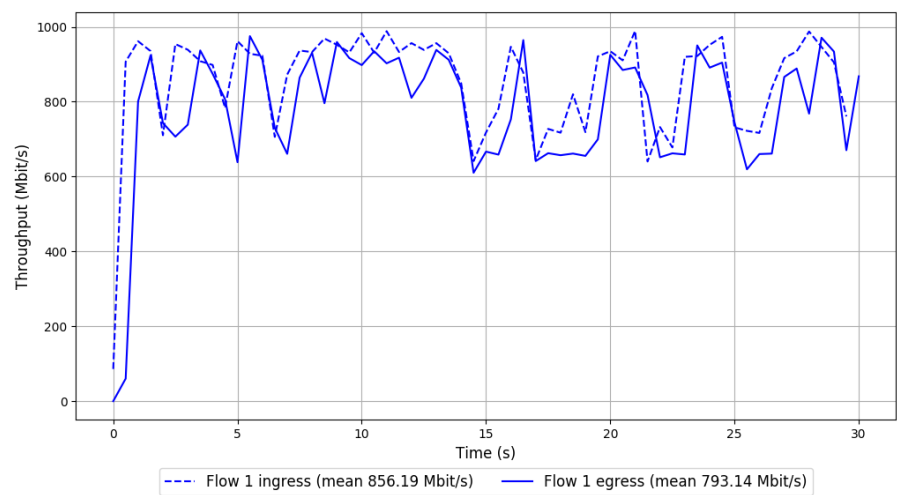
-- Flow 1:

Average throughput: 793.14 Mbit/s

95th percentile per-packet one-way delay: 108.570 ms

Loss rate: 7.37%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-07-24 08:55:10

End at: 2018-07-24 08:55:40

Local clock offset: 3.45 ms

Remote clock offset: 0.867 ms

Below is generated by plot.py at 2018-07-24 11:45:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 728.69 Mbit/s

95th percentile per-packet one-way delay: 106.871 ms

Loss rate: 4.30%

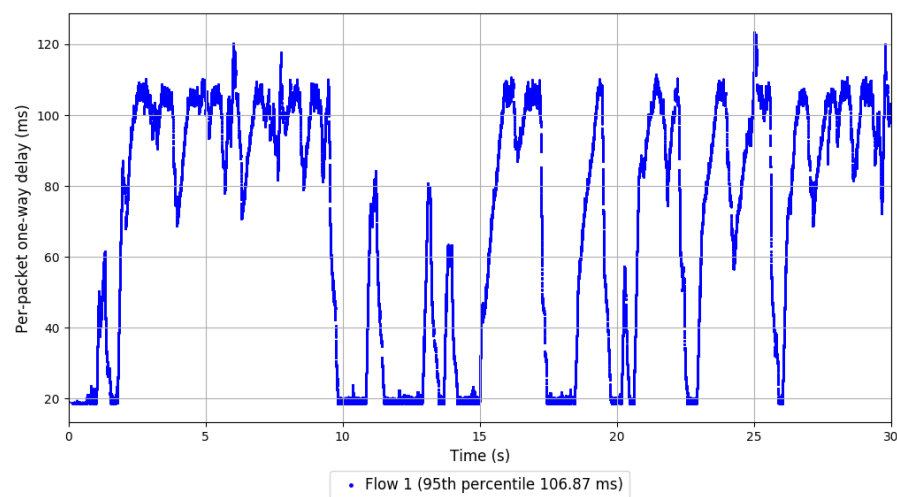
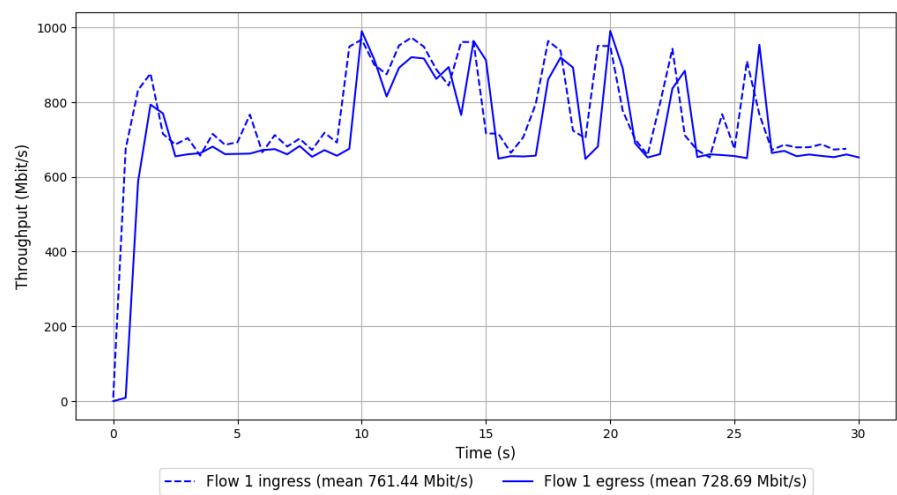
-- Flow 1:

Average throughput: 728.69 Mbit/s

95th percentile per-packet one-way delay: 106.871 ms

Loss rate: 4.30%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-07-24 09:20:58

End at: 2018-07-24 09:21:28

Local clock offset: 3.466 ms

Remote clock offset: 0.783 ms

Below is generated by plot.py at 2018-07-24 11:46:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 728.70 Mbit/s

95th percentile per-packet one-way delay: 105.847 ms

Loss rate: 4.45%

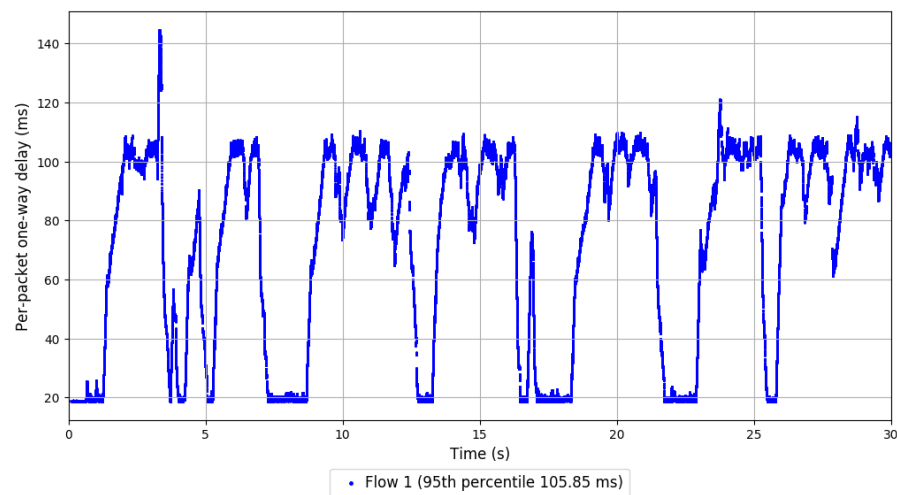
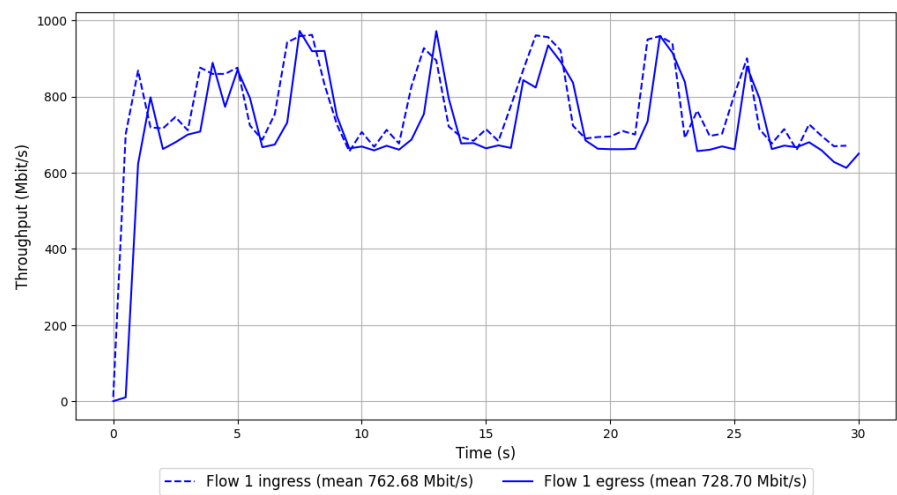
-- Flow 1:

Average throughput: 728.70 Mbit/s

95th percentile per-packet one-way delay: 105.847 ms

Loss rate: 4.45%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-07-24 09:46:27

End at: 2018-07-24 09:46:57

Local clock offset: 4.226 ms

Remote clock offset: 0.73 ms

Below is generated by plot.py at 2018-07-24 11:46:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 742.30 Mbit/s

95th percentile per-packet one-way delay: 105.564 ms

Loss rate: 4.04%

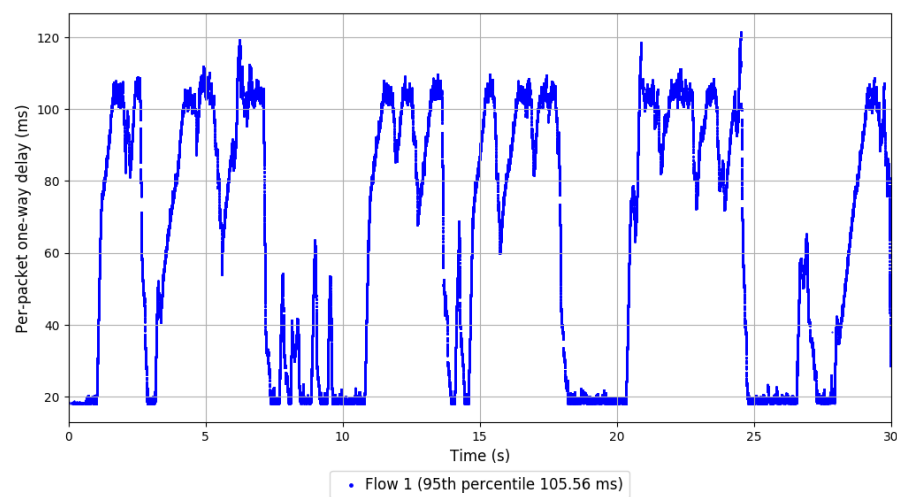
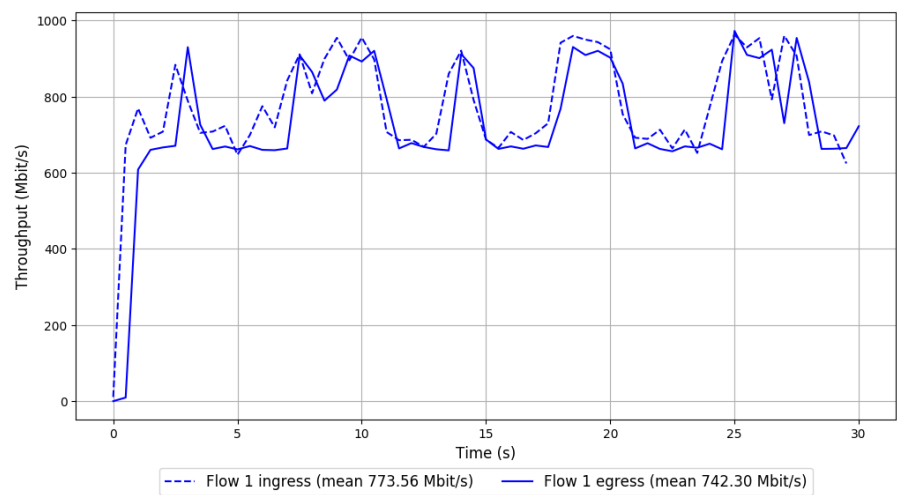
-- Flow 1:

Average throughput: 742.30 Mbit/s

95th percentile per-packet one-way delay: 105.564 ms

Loss rate: 4.04%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-07-24 10:12:08

End at: 2018-07-24 10:12:38

Local clock offset: 4.486 ms

Remote clock offset: 0.607 ms

Below is generated by plot.py at 2018-07-24 11:53:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 710.22 Mbit/s

95th percentile per-packet one-way delay: 104.146 ms

Loss rate: 4.47%

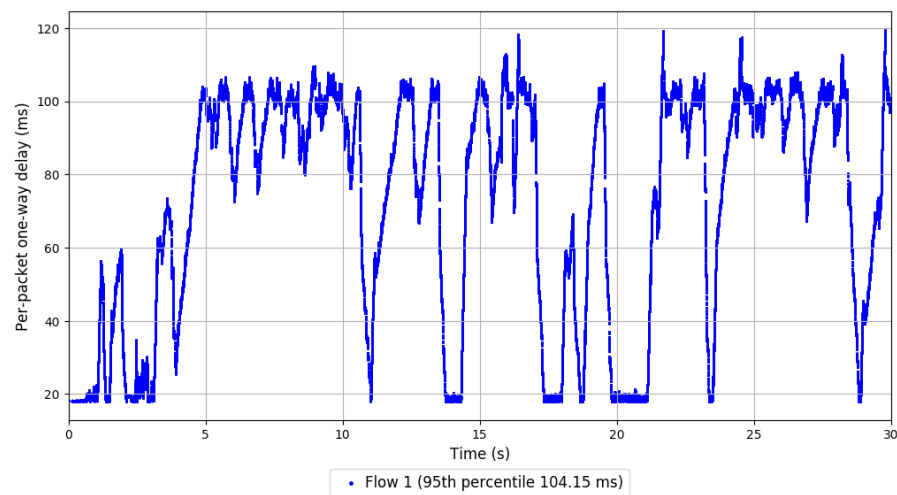
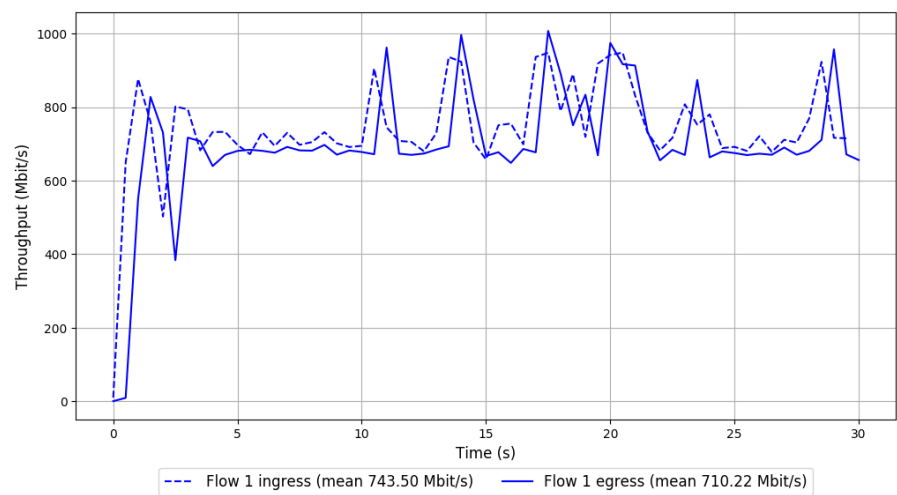
-- Flow 1:

Average throughput: 710.22 Mbit/s

95th percentile per-packet one-way delay: 104.146 ms

Loss rate: 4.47%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-07-24 10:37:55

End at: 2018-07-24 10:38:25

Local clock offset: 4.72 ms

Remote clock offset: 0.627 ms

Below is generated by plot.py at 2018-07-24 11:54:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 705.57 Mbit/s

95th percentile per-packet one-way delay: 109.283 ms

Loss rate: 7.15%

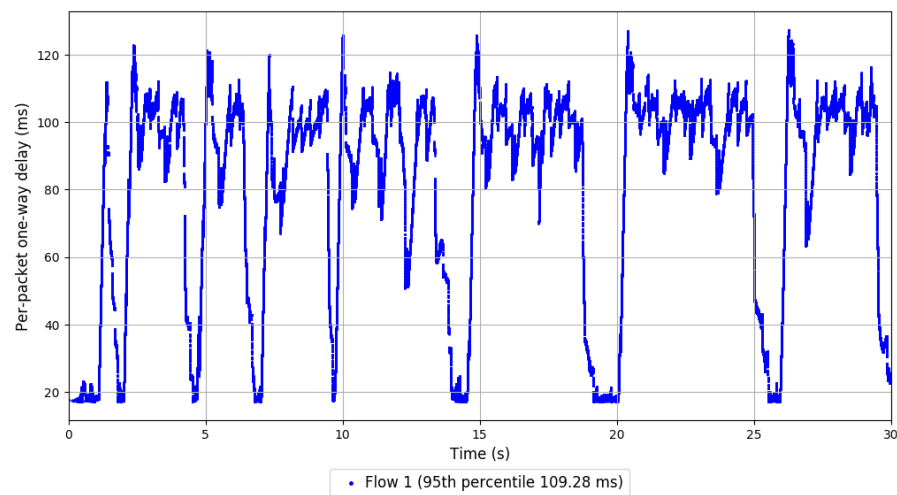
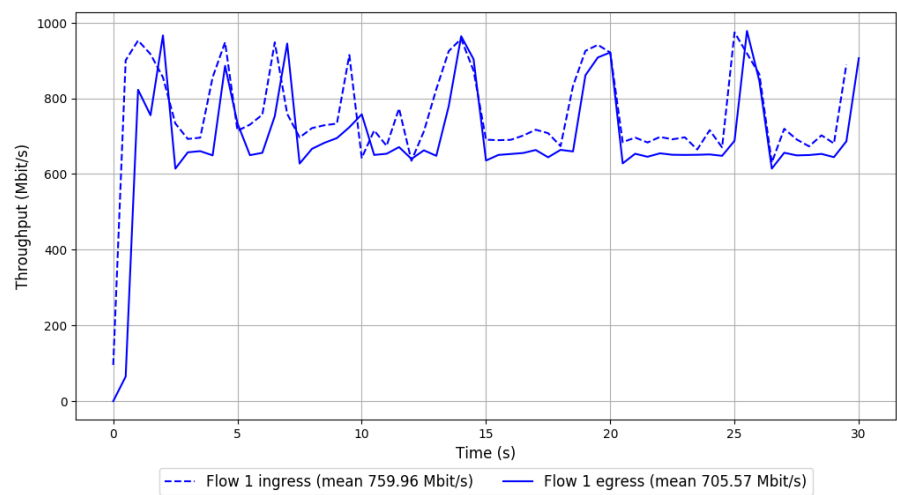
-- Flow 1:

Average throughput: 705.57 Mbit/s

95th percentile per-packet one-way delay: 109.283 ms

Loss rate: 7.15%

Run 10: Report of FillP — Data Link



Run 1: Statistics of FillP-Sheep

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

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

Local clock offset: 7.197 ms

Remote clock offset: 2.633 ms

Below is generated by plot.py at 2018-07-24 11:57:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 890.09 Mbit/s

95th percentile per-packet one-way delay: 38.727 ms

Loss rate: 11.00%

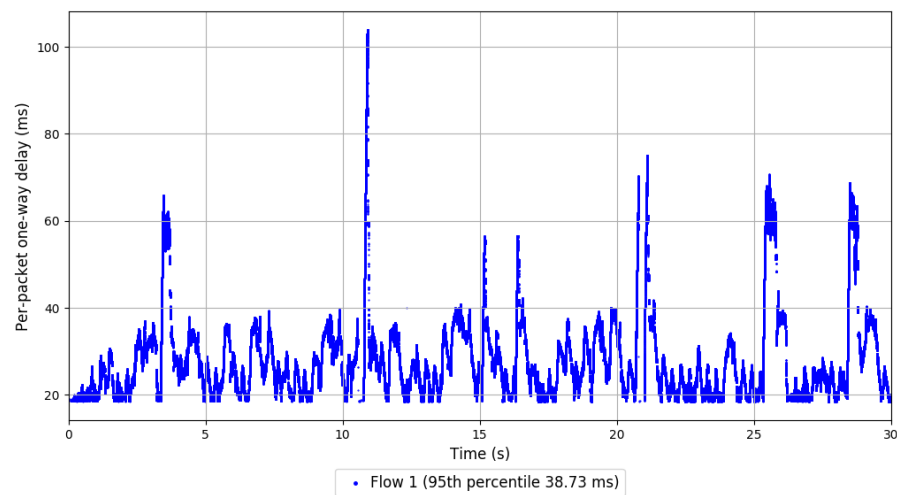
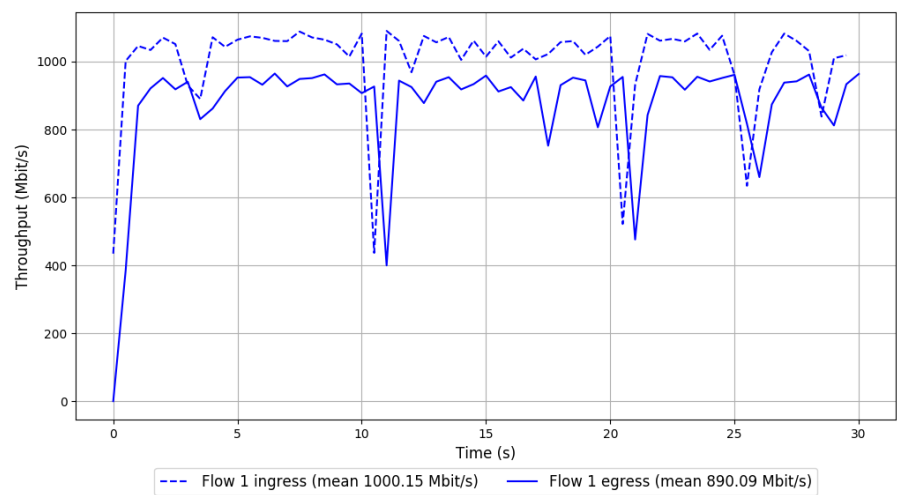
-- Flow 1:

Average throughput: 890.09 Mbit/s

95th percentile per-packet one-way delay: 38.727 ms

Loss rate: 11.00%

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

Start at: 2018-07-24 07:29:48

End at: 2018-07-24 07:30:18

Local clock offset: 6.089 ms

Remote clock offset: 2.299 ms

Below is generated by plot.py at 2018-07-24 11:57:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 589.97 Mbit/s

95th percentile per-packet one-way delay: 53.163 ms

Loss rate: 8.84%

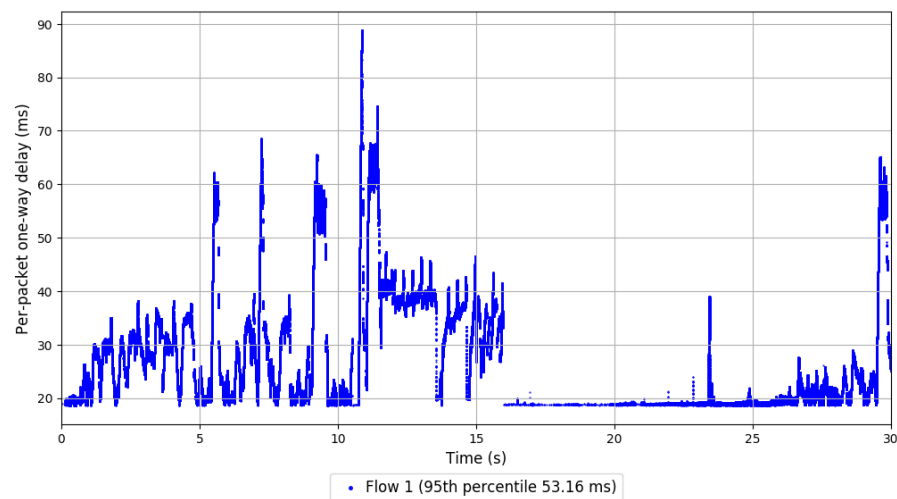
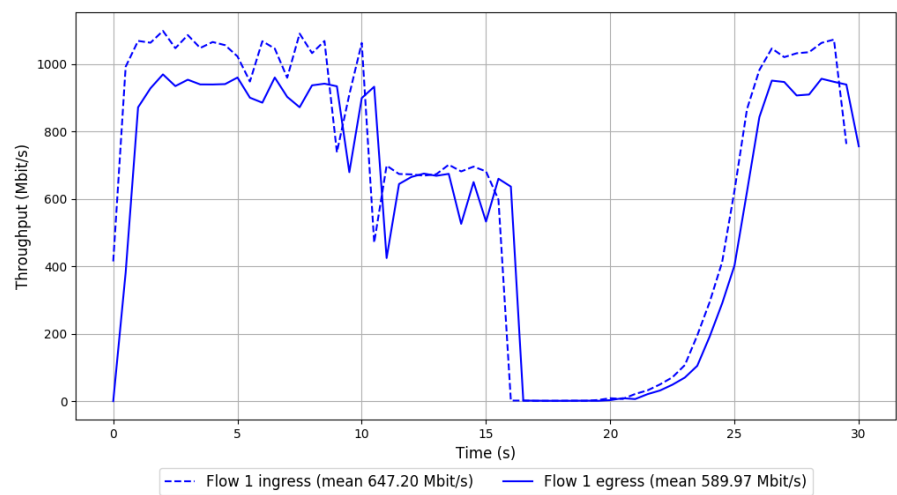
-- Flow 1:

Average throughput: 589.97 Mbit/s

95th percentile per-packet one-way delay: 53.163 ms

Loss rate: 8.84%

Run 2: Report of FillP-Sheep — Data Link



Run 3: Statistics of FillP-Sheep

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

End at: 2018-07-24 07:56:01

Local clock offset: 4.82 ms

Remote clock offset: 1.839 ms

Below is generated by plot.py at 2018-07-24 11:57:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 854.92 Mbit/s

95th percentile per-packet one-way delay: 43.451 ms

Loss rate: 10.25%

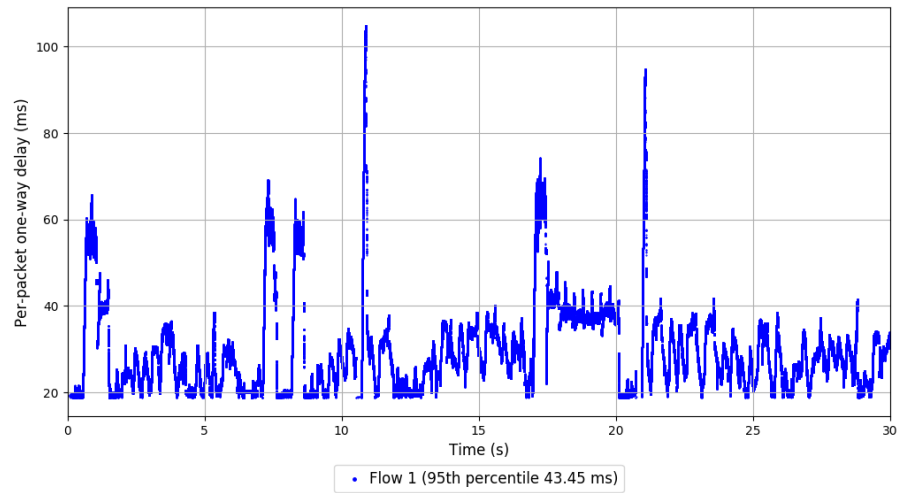
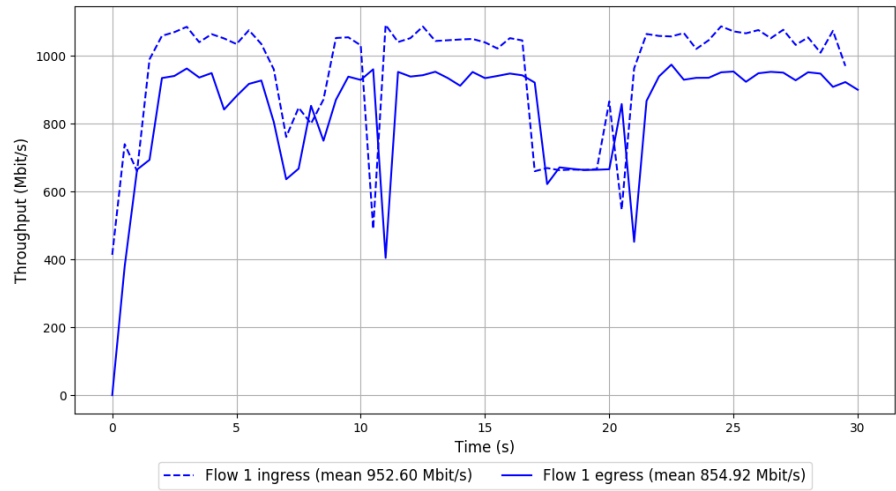
-- Flow 1:

Average throughput: 854.92 Mbit/s

95th percentile per-packet one-way delay: 43.451 ms

Loss rate: 10.25%

Run 3: Report of FillP-Sheep — Data Link



Run 4: Statistics of FillP-Sheep

Start at: 2018-07-24 08:21:06

End at: 2018-07-24 08:21:36

Local clock offset: 4.498 ms

Remote clock offset: 1.305 ms

Below is generated by plot.py at 2018-07-24 11:57:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 892.61 Mbit/s

95th percentile per-packet one-way delay: 39.549 ms

Loss rate: 11.18%

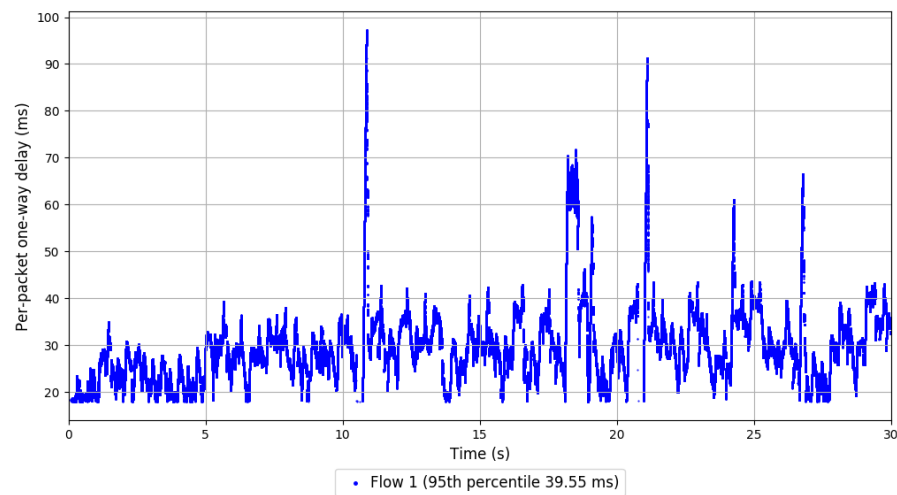
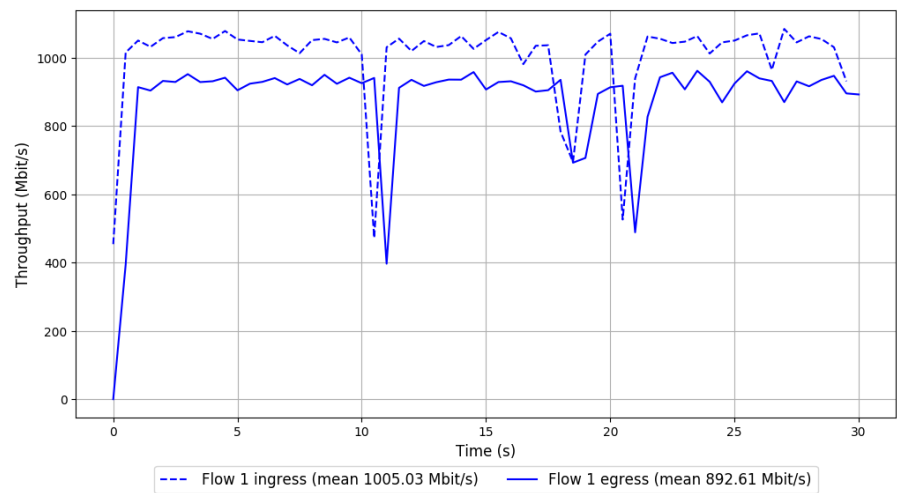
-- Flow 1:

Average throughput: 892.61 Mbit/s

95th percentile per-packet one-way delay: 39.549 ms

Loss rate: 11.18%

Run 4: Report of FillP-Sheep — Data Link



Run 5: Statistics of FillP-Sheep

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

End at: 2018-07-24 08:47:15

Local clock offset: 3.532 ms

Remote clock offset: 1.028 ms

Below is generated by plot.py at 2018-07-24 11:57:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.86 Mbit/s

95th percentile per-packet one-way delay: 22.879 ms

Loss rate: 18.53%

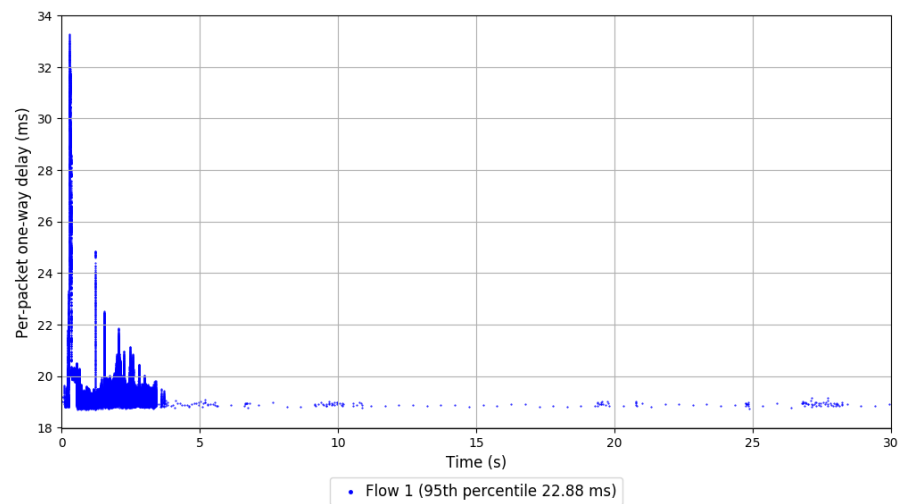
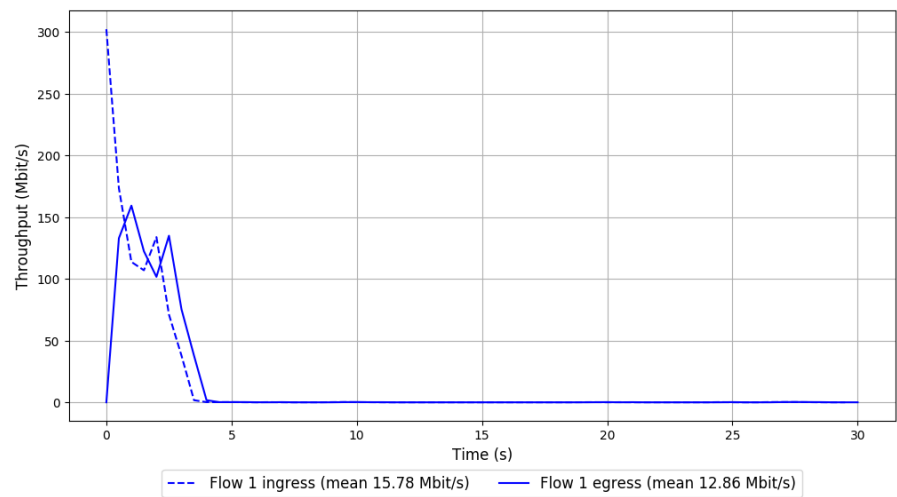
-- Flow 1:

Average throughput: 12.86 Mbit/s

95th percentile per-packet one-way delay: 22.879 ms

Loss rate: 18.53%

Run 5: Report of FillP-Sheep — Data Link



Run 6: Statistics of FillP-Sheep

Start at: 2018-07-24 09:12:05

End at: 2018-07-24 09:12:35

Local clock offset: 3.404 ms

Remote clock offset: 0.82 ms

Below is generated by plot.py at 2018-07-24 11:58:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 843.29 Mbit/s

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

Loss rate: 9.06%

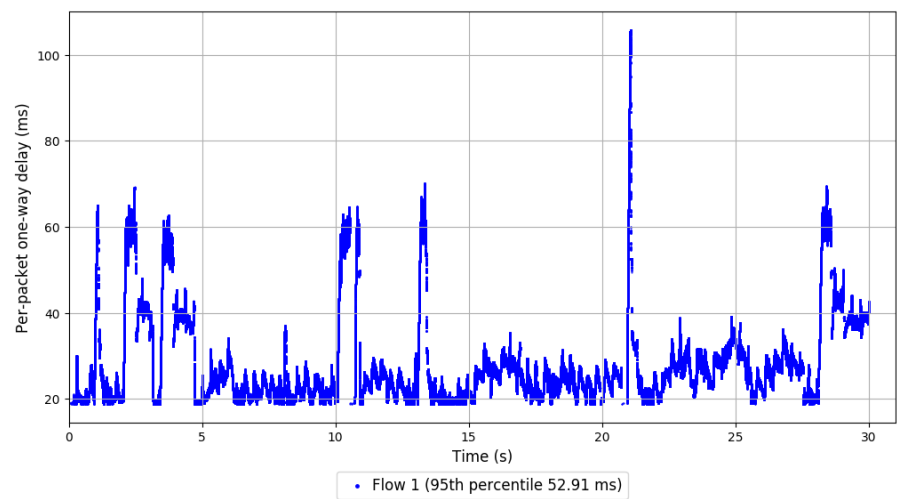
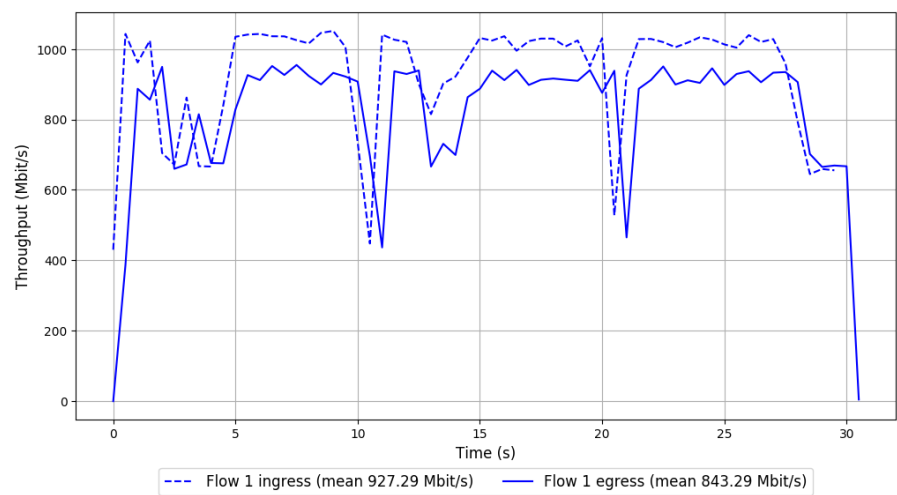
-- Flow 1:

Average throughput: 843.29 Mbit/s

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

Loss rate: 9.06%

Run 6: Report of FillP-Sheep — Data Link

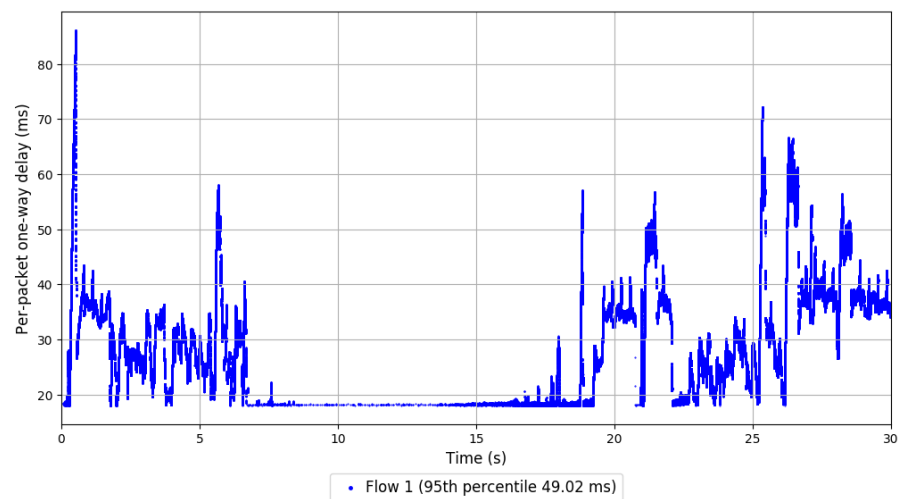
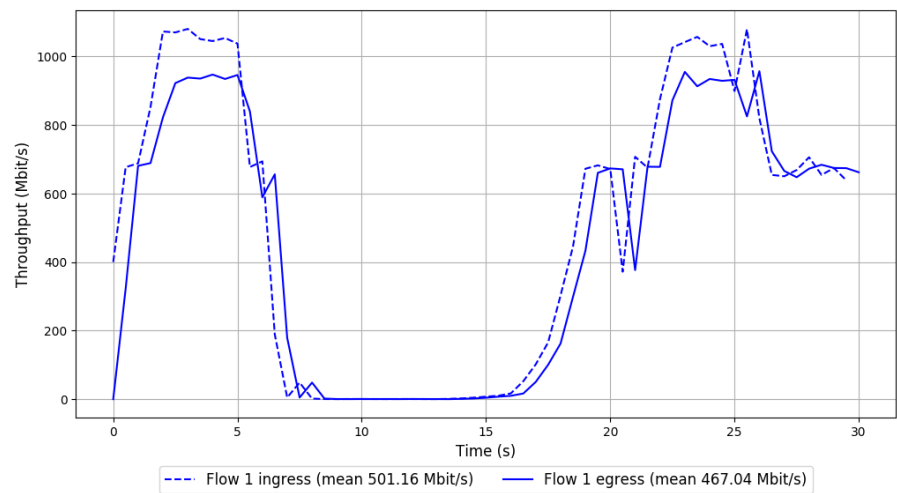


Run 7: Statistics of FillP-Sheep

Start at: 2018-07-24 09:37:50
End at: 2018-07-24 09:38:20
Local clock offset: 3.918 ms
Remote clock offset: 0.75 ms

Below is generated by plot.py at 2018-07-24 11:58:12
Datalink statistics
-- Total of 1 flow:
Average throughput: 467.04 Mbit/s
95th percentile per-packet one-way delay: 49.023 ms
Loss rate: 6.81%
-- Flow 1:
Average throughput: 467.04 Mbit/s
95th percentile per-packet one-way delay: 49.023 ms
Loss rate: 6.81%

Run 7: Report of FillP-Sheep — Data Link



Run 8: Statistics of FillP-Sheep

Start at: 2018-07-24 10:03:14

End at: 2018-07-24 10:03:44

Local clock offset: 4.608 ms

Remote clock offset: 0.693 ms

Below is generated by plot.py at 2018-07-24 12:04:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 827.49 Mbit/s

95th percentile per-packet one-way delay: 42.289 ms

Loss rate: 8.73%

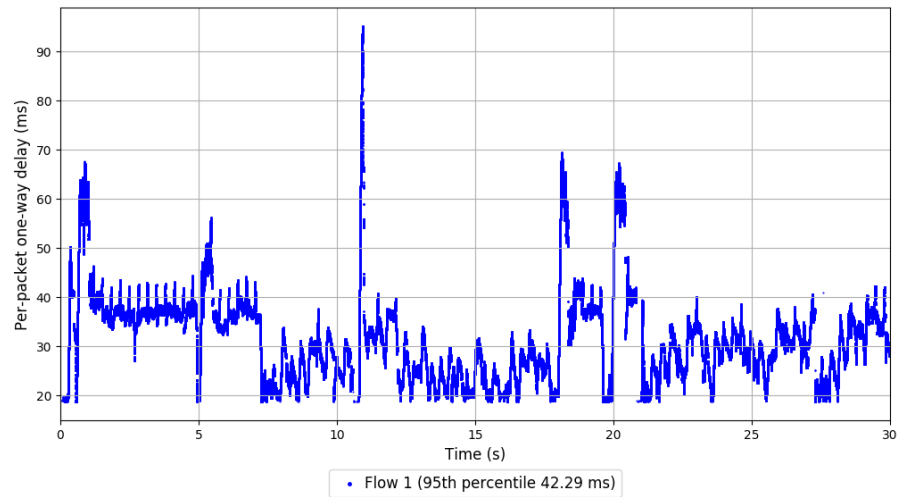
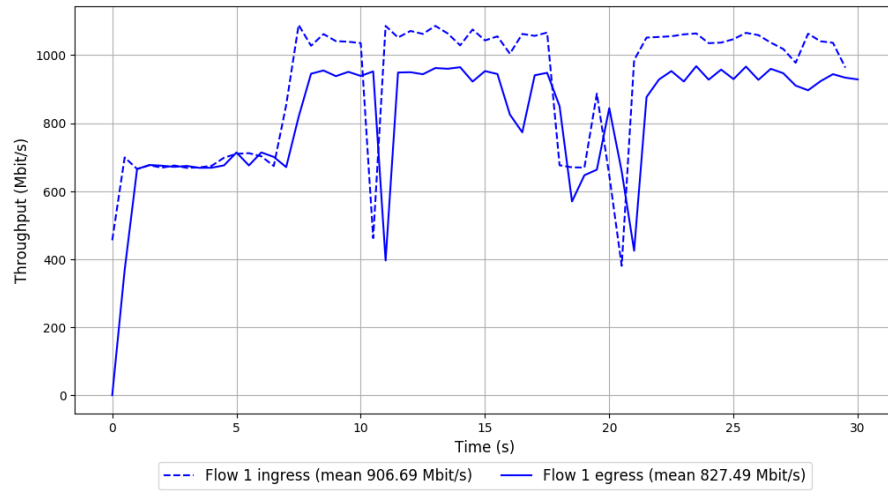
-- Flow 1:

Average throughput: 827.49 Mbit/s

95th percentile per-packet one-way delay: 42.289 ms

Loss rate: 8.73%

Run 8: Report of FillP-Sheep — Data Link



Run 9: Statistics of FillP-Sheep

Start at: 2018-07-24 10:29:00

End at: 2018-07-24 10:29:30

Local clock offset: 4.704 ms

Remote clock offset: 0.664 ms

Below is generated by plot.py at 2018-07-24 12:06:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 892.52 Mbit/s

95th percentile per-packet one-way delay: 39.762 ms

Loss rate: 9.41%

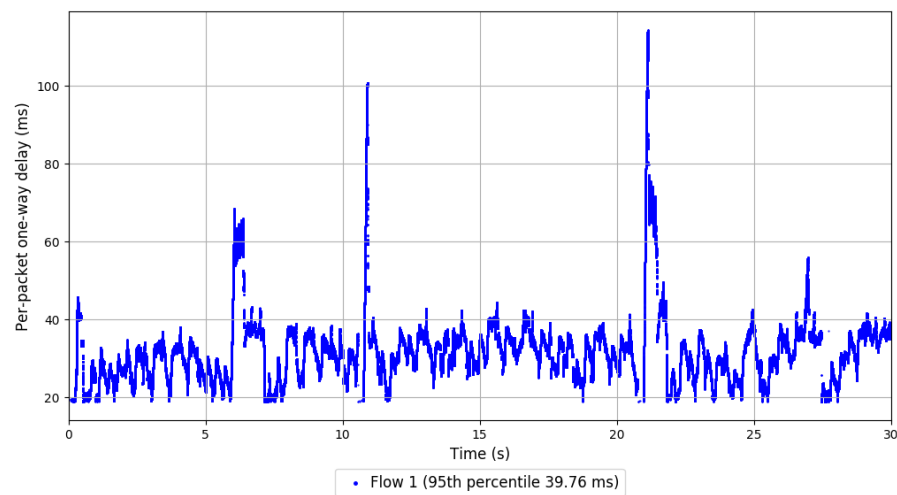
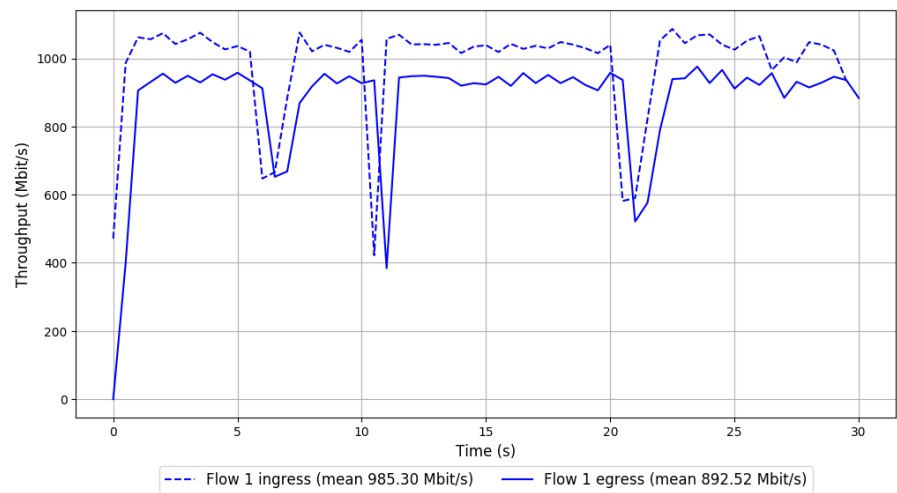
-- Flow 1:

Average throughput: 892.52 Mbit/s

95th percentile per-packet one-way delay: 39.762 ms

Loss rate: 9.41%

Run 9: Report of FillP-Sheep — Data Link



Run 10: Statistics of FillP-Sheep

Start at: 2018-07-24 10:54:47

End at: 2018-07-24 10:55:17

Local clock offset: 4.822 ms

Remote clock offset: 0.661 ms

Below is generated by plot.py at 2018-07-24 12:06:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 792.74 Mbit/s

95th percentile per-packet one-way delay: 48.492 ms

Loss rate: 7.28%

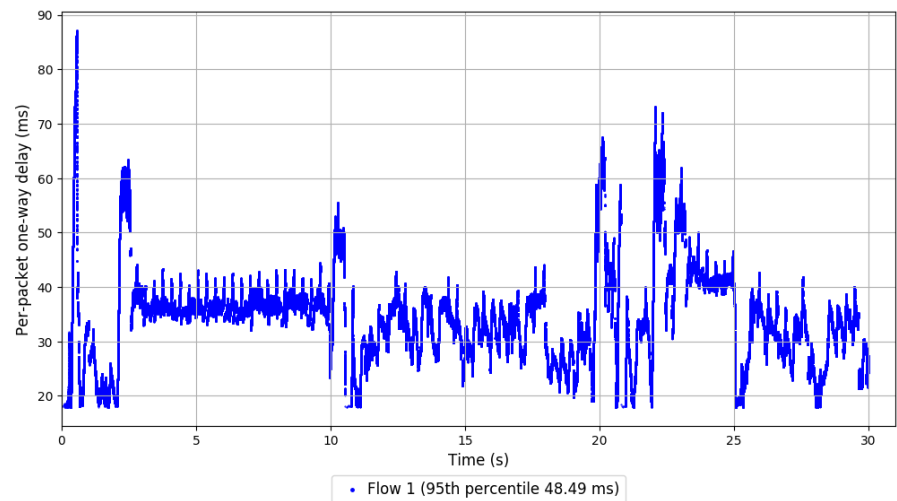
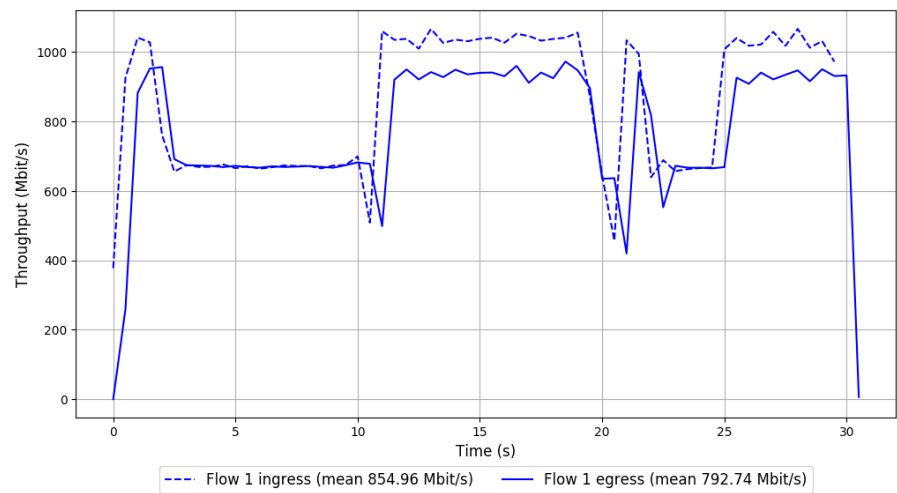
-- Flow 1:

Average throughput: 792.74 Mbit/s

95th percentile per-packet one-way delay: 48.492 ms

Loss rate: 7.28%

Run 10: Report of FillP-Sheep — Data Link

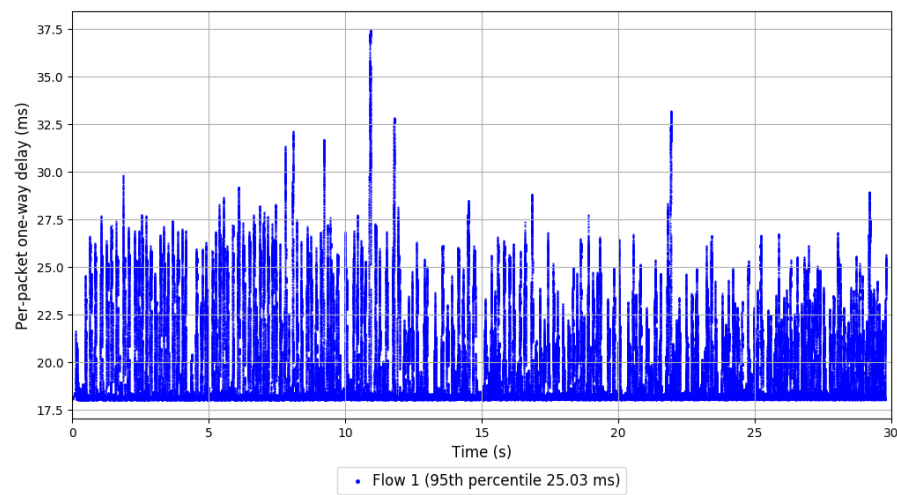
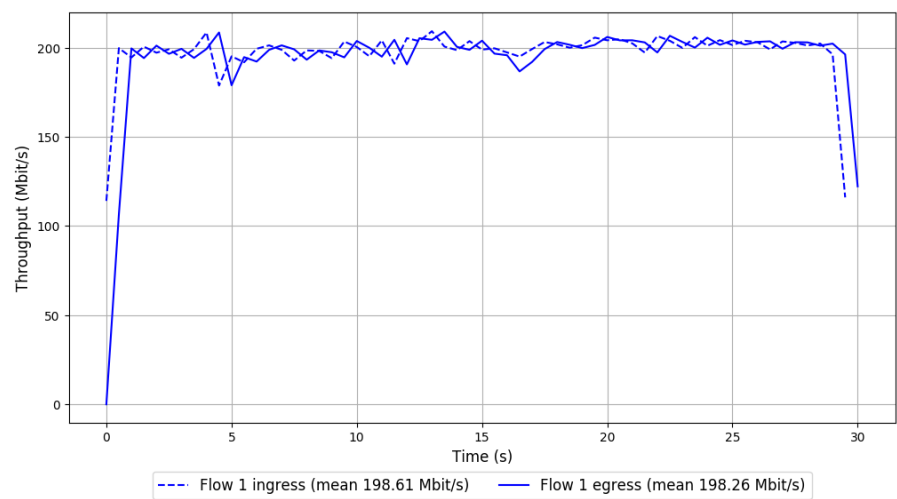


```
Run 1: Statistics of Indigo

Start at: 2018-07-24 06:50:30
End at: 2018-07-24 06:51:00
Local clock offset: 7.01 ms
Remote clock offset: 2.447 ms

# Below is generated by plot.py at 2018-07-24 12:06:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 198.26 Mbit/s
95th percentile per-packet one-way delay: 25.034 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 198.26 Mbit/s
95th percentile per-packet one-way delay: 25.034 ms
Loss rate: 0.18%
```

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

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

End at: 2018-07-24 07:16:46

Local clock offset: 5.741 ms

Remote clock offset: 2.558 ms

Below is generated by plot.py at 2018-07-24 12:06:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 200.79 Mbit/s

95th percentile per-packet one-way delay: 23.856 ms

Loss rate: 0.01%

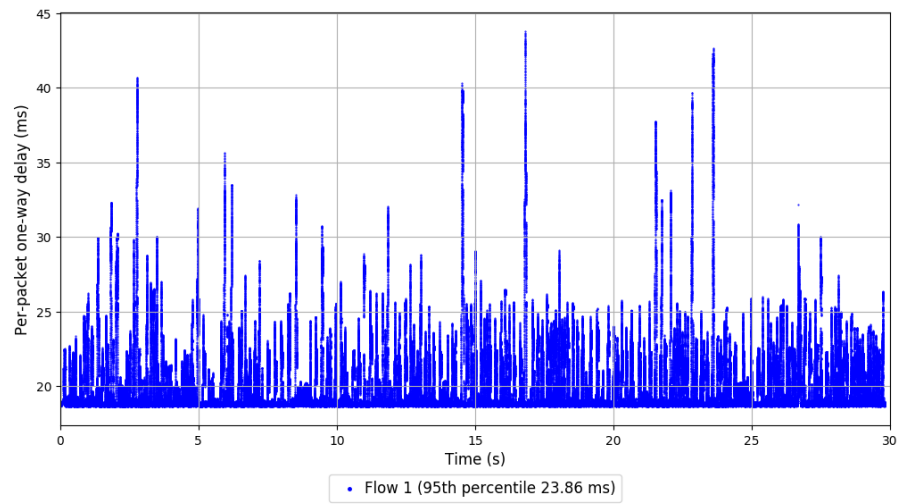
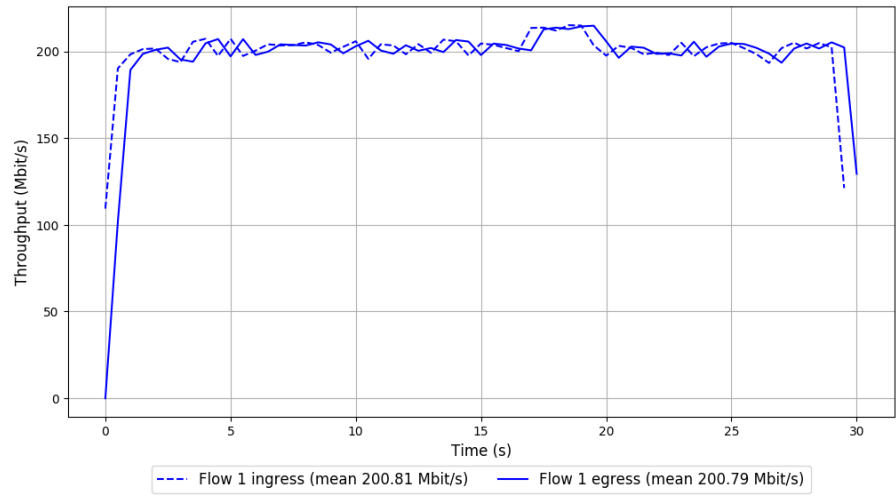
-- Flow 1:

Average throughput: 200.79 Mbit/s

95th percentile per-packet one-way delay: 23.856 ms

Loss rate: 0.01%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-07-24 07:41:53

End at: 2018-07-24 07:42:23

Local clock offset: 4.959 ms

Remote clock offset: 2.191 ms

Below is generated by plot.py at 2018-07-24 12:06:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 199.49 Mbit/s

95th percentile per-packet one-way delay: 24.374 ms

Loss rate: 0.04%

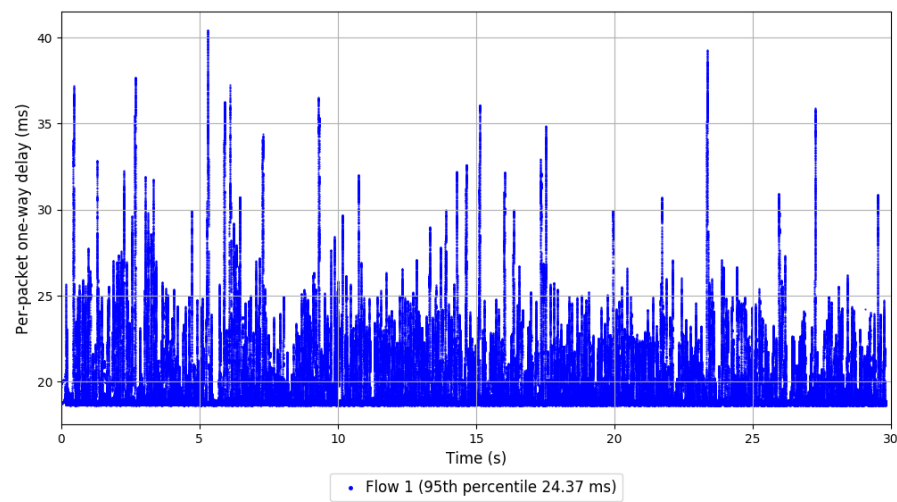
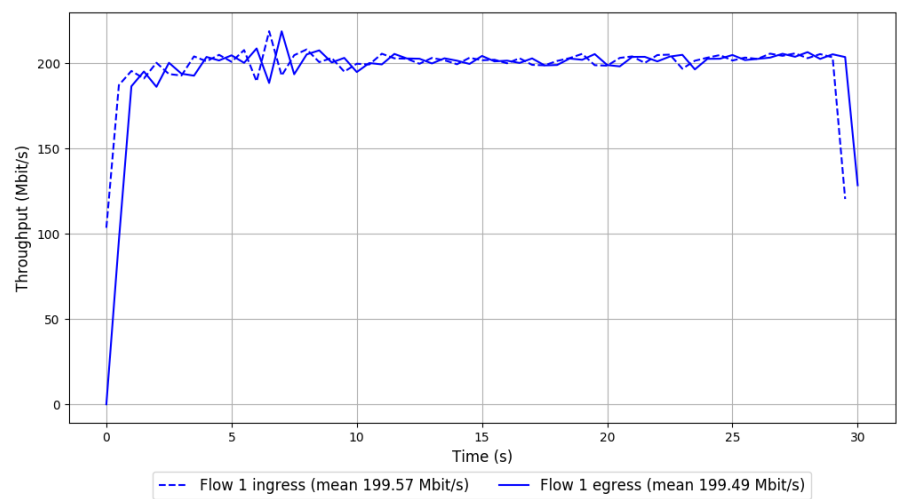
-- Flow 1:

Average throughput: 199.49 Mbit/s

95th percentile per-packet one-way delay: 24.374 ms

Loss rate: 0.04%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

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

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

Local clock offset: 4.618 ms

Remote clock offset: 1.498 ms

Below is generated by plot.py at 2018-07-24 12:06:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 107.29 Mbit/s

95th percentile per-packet one-way delay: 20.136 ms

Loss rate: 0.00%

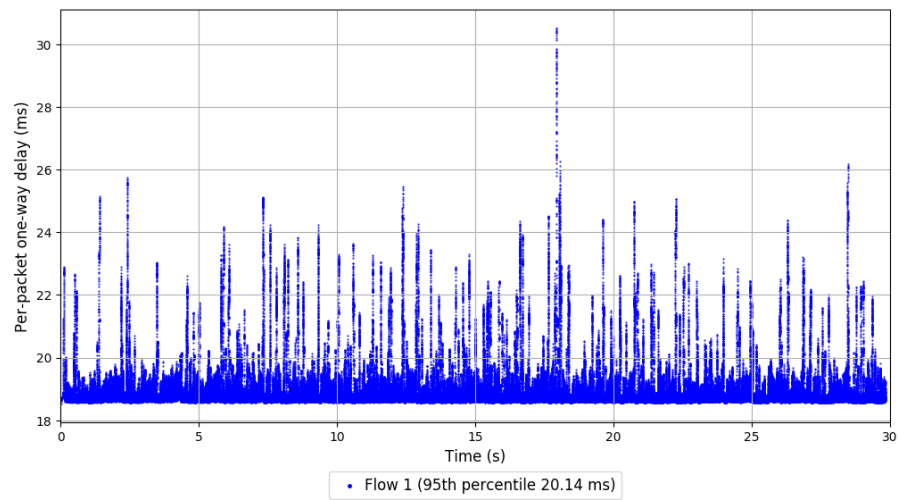
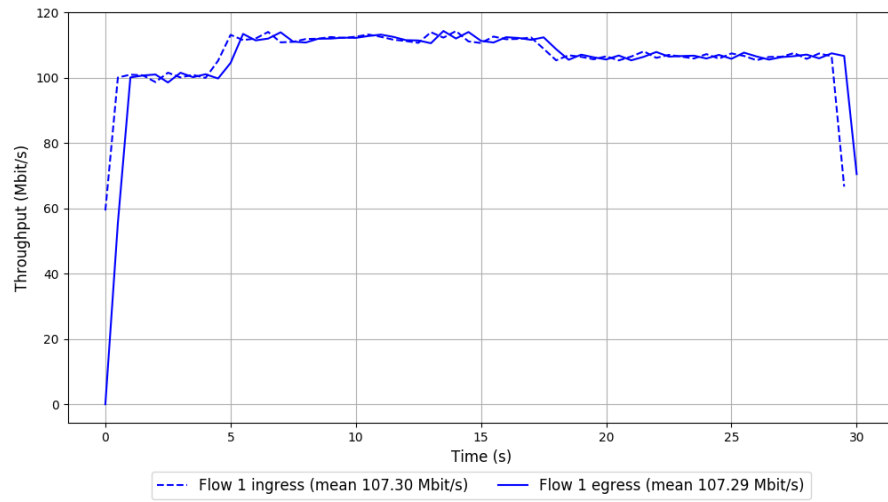
-- Flow 1:

Average throughput: 107.29 Mbit/s

95th percentile per-packet one-way delay: 20.136 ms

Loss rate: 0.00%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-07-24 08:33:06

End at: 2018-07-24 08:33:36

Local clock offset: 4.486 ms

Remote clock offset: 1.134 ms

Below is generated by plot.py at 2018-07-24 12:06:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 200.47 Mbit/s

95th percentile per-packet one-way delay: 23.556 ms

Loss rate: 0.12%

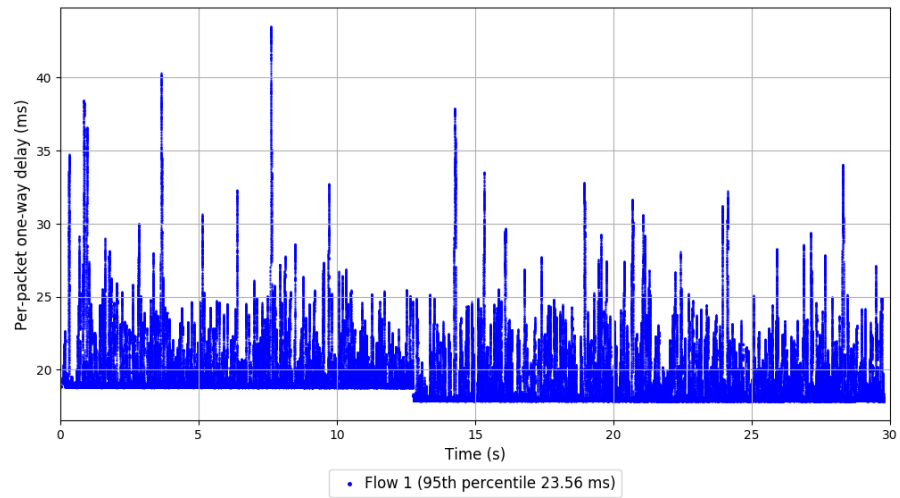
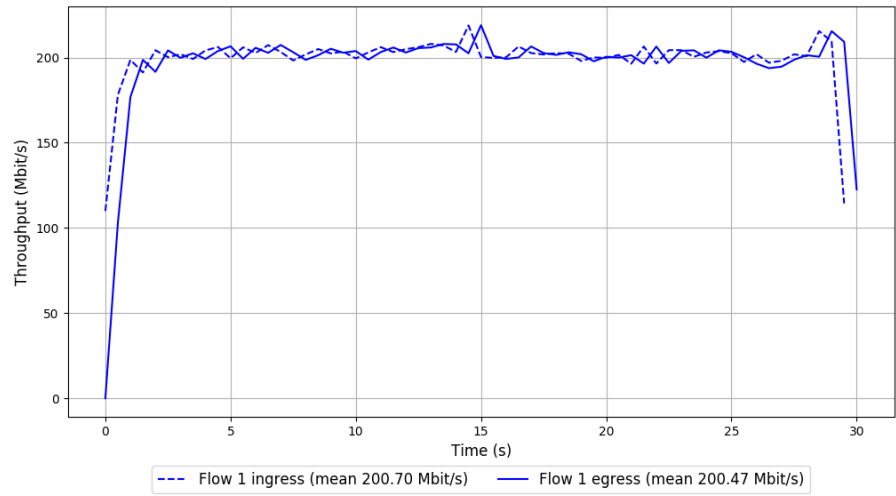
-- Flow 1:

Average throughput: 200.47 Mbit/s

95th percentile per-packet one-way delay: 23.556 ms

Loss rate: 0.12%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2018-07-24 08:58:19

End at: 2018-07-24 08:58:49

Local clock offset: 3.326 ms

Remote clock offset: 0.873 ms

Below is generated by plot.py at 2018-07-24 12:06:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 200.89 Mbit/s

95th percentile per-packet one-way delay: 22.789 ms

Loss rate: 0.15%

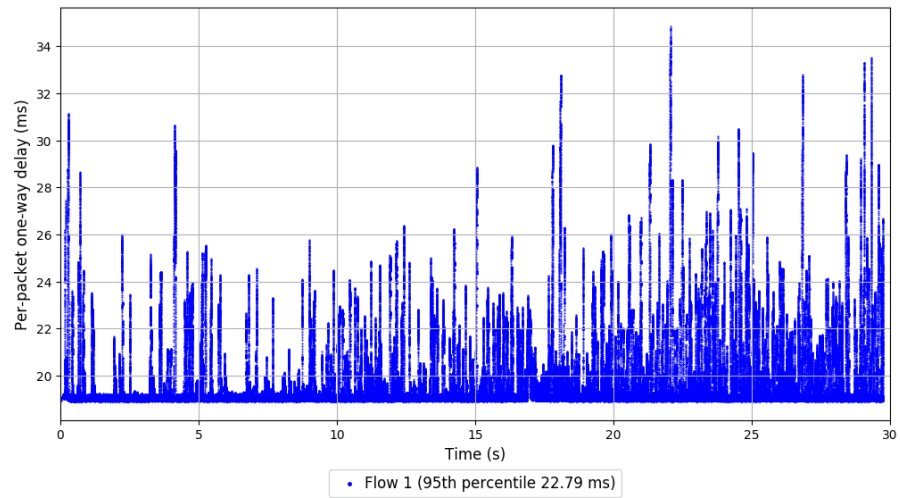
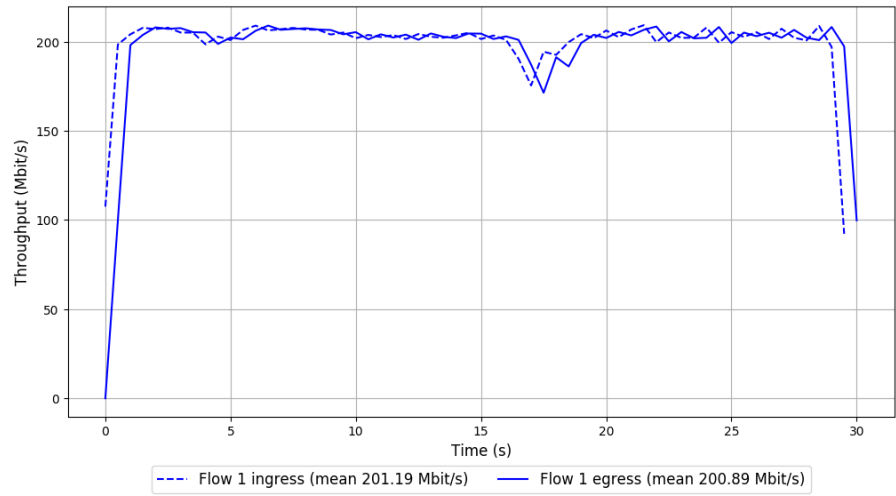
-- Flow 1:

Average throughput: 200.89 Mbit/s

95th percentile per-packet one-way delay: 22.789 ms

Loss rate: 0.15%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

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

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

Local clock offset: 3.483 ms

Remote clock offset: 0.77 ms

Below is generated by plot.py at 2018-07-24 12:06:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 207.47 Mbit/s

95th percentile per-packet one-way delay: 21.637 ms

Loss rate: 0.13%

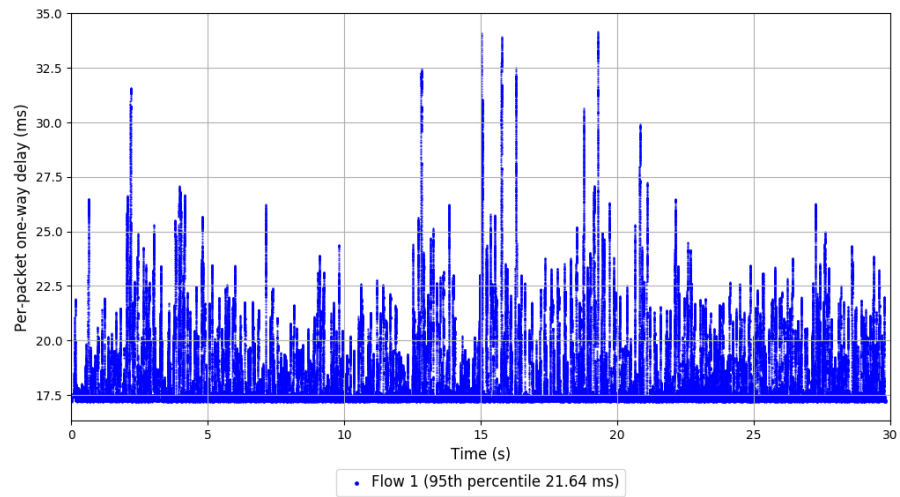
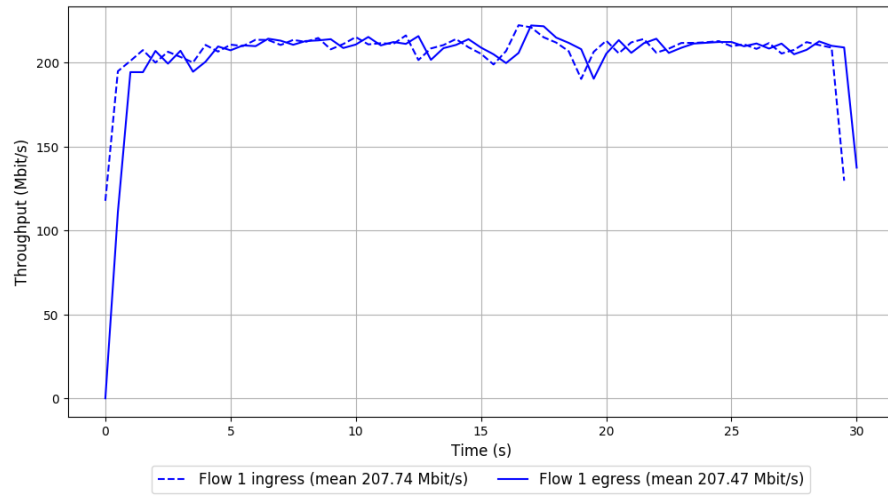
-- Flow 1:

Average throughput: 207.47 Mbit/s

95th percentile per-packet one-way delay: 21.637 ms

Loss rate: 0.13%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2018-07-24 09:49:39

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

Local clock offset: 4.409 ms

Remote clock offset: 0.631 ms

Below is generated by plot.py at 2018-07-24 12:06:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 204.94 Mbit/s

95th percentile per-packet one-way delay: 23.578 ms

Loss rate: 0.05%

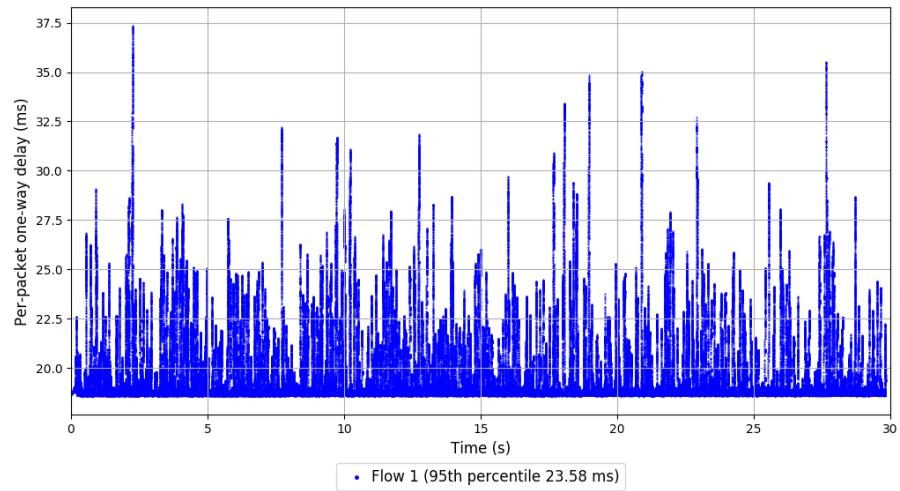
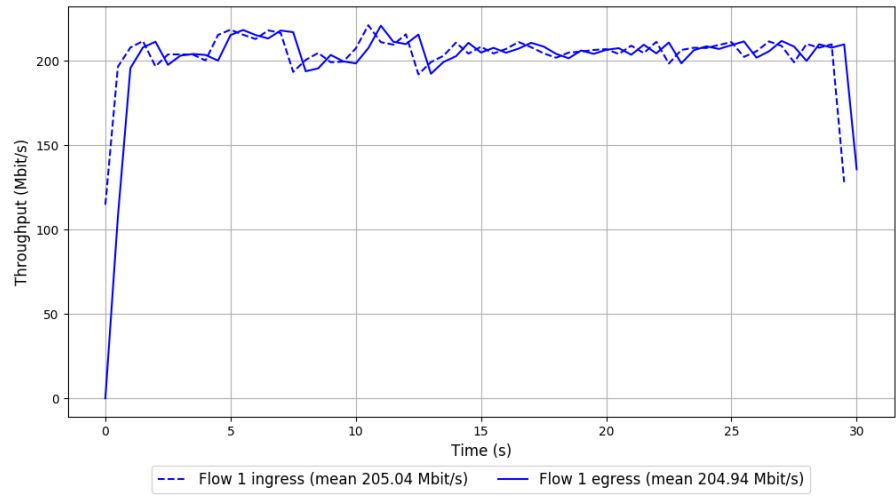
-- Flow 1:

Average throughput: 204.94 Mbit/s

95th percentile per-packet one-way delay: 23.578 ms

Loss rate: 0.05%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

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

End at: 2018-07-24 10:15:45

Local clock offset: 4.58 ms

Remote clock offset: 0.637 ms

Below is generated by plot.py at 2018-07-24 12:06:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 205.75 Mbit/s

95th percentile per-packet one-way delay: 22.963 ms

Loss rate: 0.02%

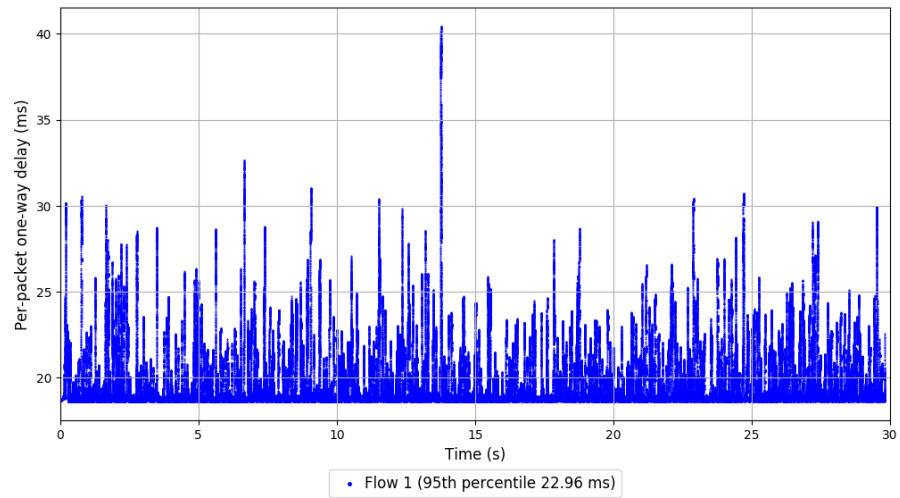
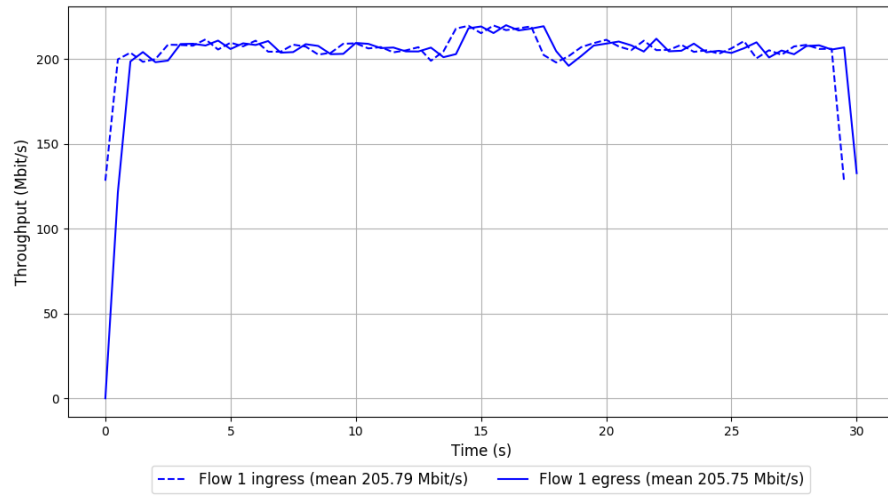
-- Flow 1:

Average throughput: 205.75 Mbit/s

95th percentile per-packet one-way delay: 22.963 ms

Loss rate: 0.02%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-07-24 10:41:03

End at: 2018-07-24 10:41:33

Local clock offset: 4.628 ms

Remote clock offset: 0.683 ms

Below is generated by plot.py at 2018-07-24 12:06:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 203.13 Mbit/s

95th percentile per-packet one-way delay: 23.314 ms

Loss rate: 0.07%

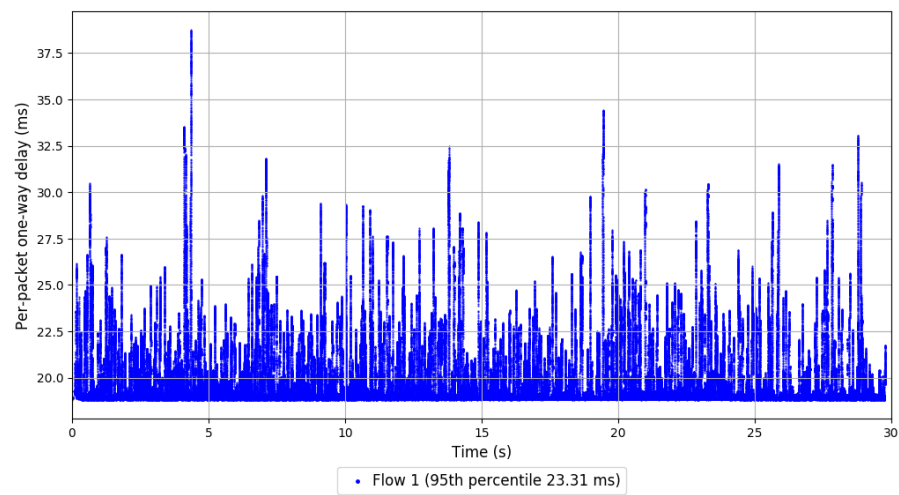
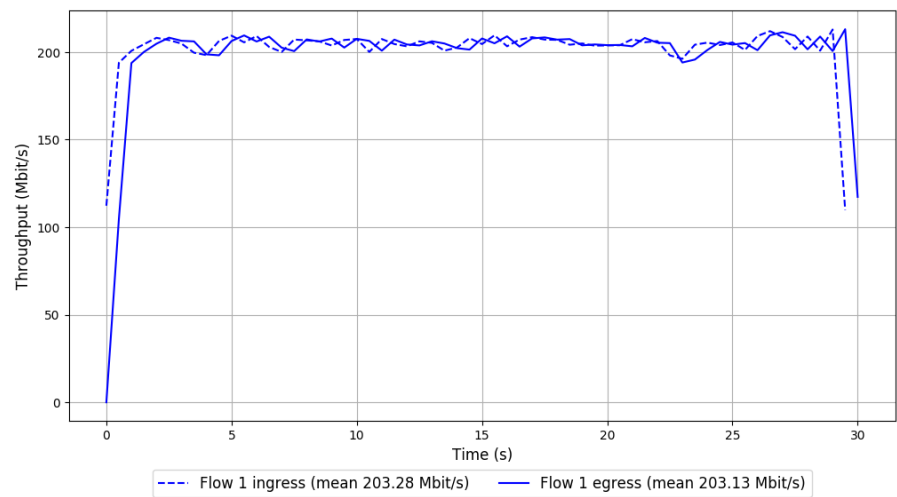
-- Flow 1:

Average throughput: 203.13 Mbit/s

95th percentile per-packet one-way delay: 23.314 ms

Loss rate: 0.07%

Run 10: Report of Indigo — Data Link

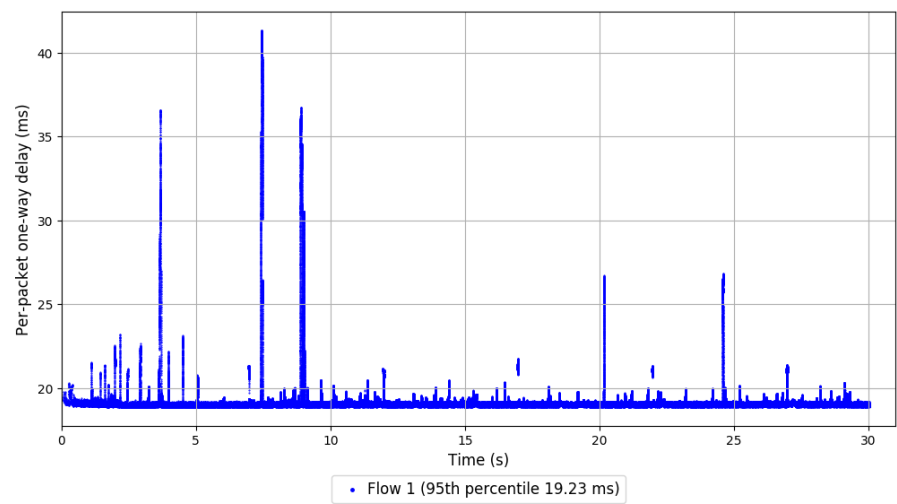
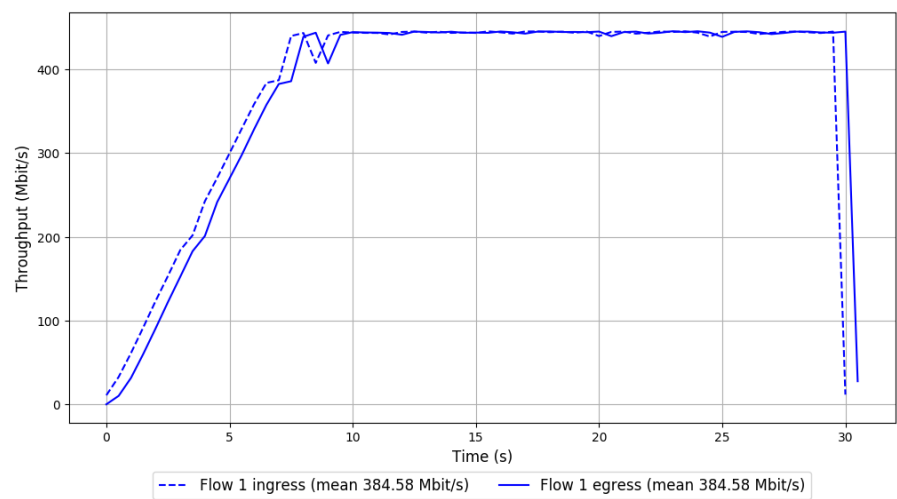


```
Run 1: Statistics of LEDBAT

Start at: 2018-07-24 06:48:56
End at: 2018-07-24 06:49:26
Local clock offset: 7.047 ms
Remote clock offset: 2.468 ms

# Below is generated by plot.py at 2018-07-24 12:06:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 384.58 Mbit/s
95th percentile per-packet one-way delay: 19.231 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 384.58 Mbit/s
95th percentile per-packet one-way delay: 19.231 ms
Loss rate: 0.00%
```

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-07-24 07:14:43

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

Local clock offset: 5.703 ms

Remote clock offset: 2.58 ms

Below is generated by plot.py at 2018-07-24 12:06:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 373.04 Mbit/s

95th percentile per-packet one-way delay: 19.231 ms

Loss rate: 0.00%

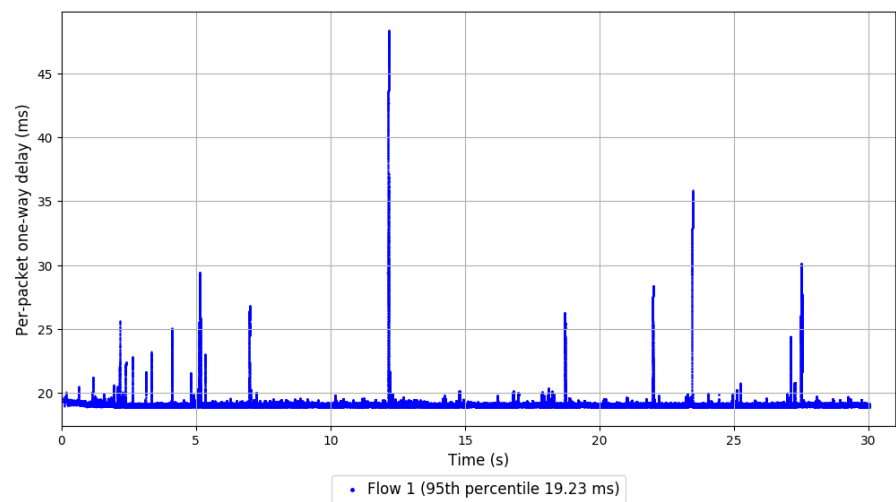
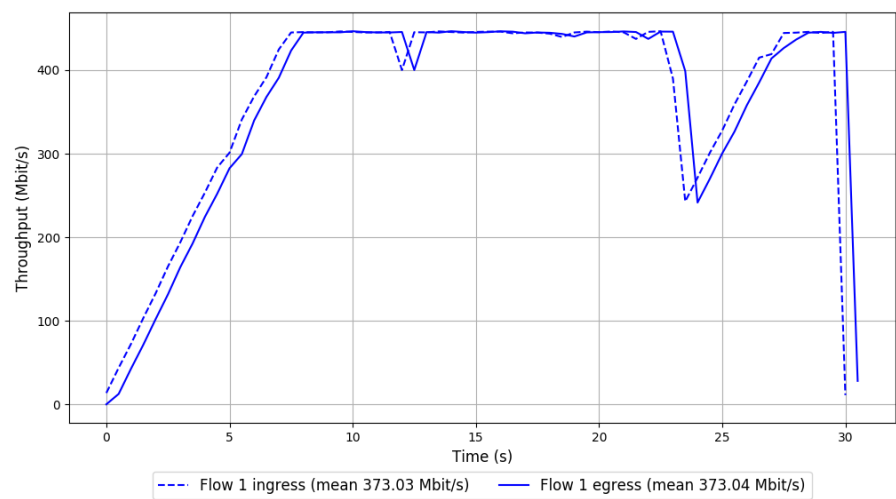
-- Flow 1:

Average throughput: 373.04 Mbit/s

95th percentile per-packet one-way delay: 19.231 ms

Loss rate: 0.00%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-07-24 07:40:13

End at: 2018-07-24 07:40:43

Local clock offset: 5.085 ms

Remote clock offset: 2.235 ms

Below is generated by plot.py at 2018-07-24 12:06:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 408.41 Mbit/s

95th percentile per-packet one-way delay: 18.258 ms

Loss rate: 0.00%

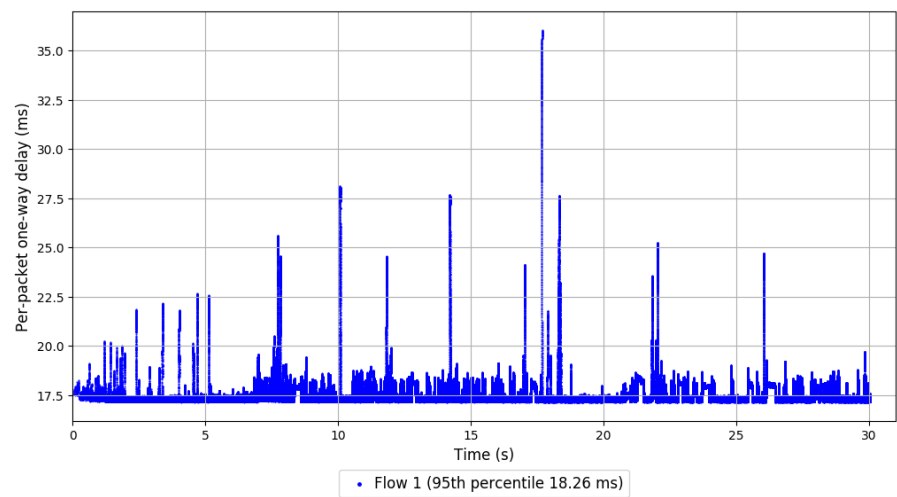
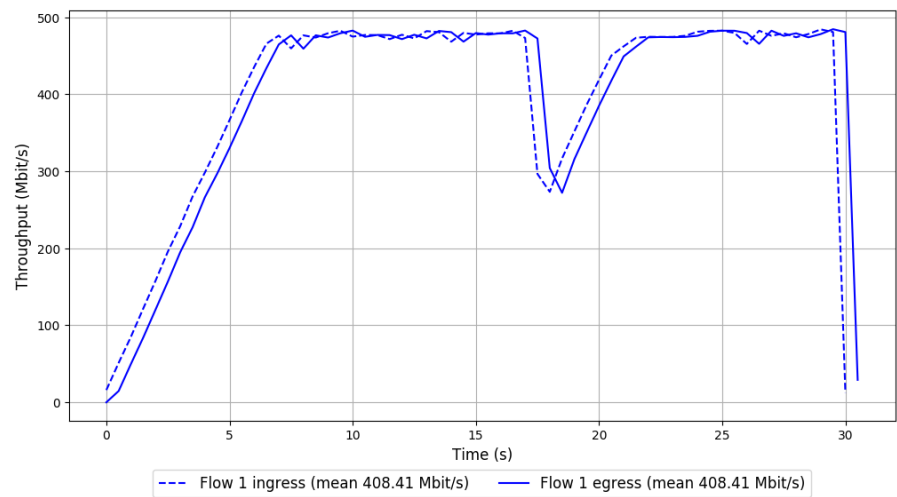
-- Flow 1:

Average throughput: 408.41 Mbit/s

95th percentile per-packet one-way delay: 18.258 ms

Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-07-24 08:05:58

End at: 2018-07-24 08:06:28

Local clock offset: 4.607 ms

Remote clock offset: 1.495 ms

Below is generated by plot.py at 2018-07-24 12:06:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 378.60 Mbit/s

95th percentile per-packet one-way delay: 18.991 ms

Loss rate: 0.00%

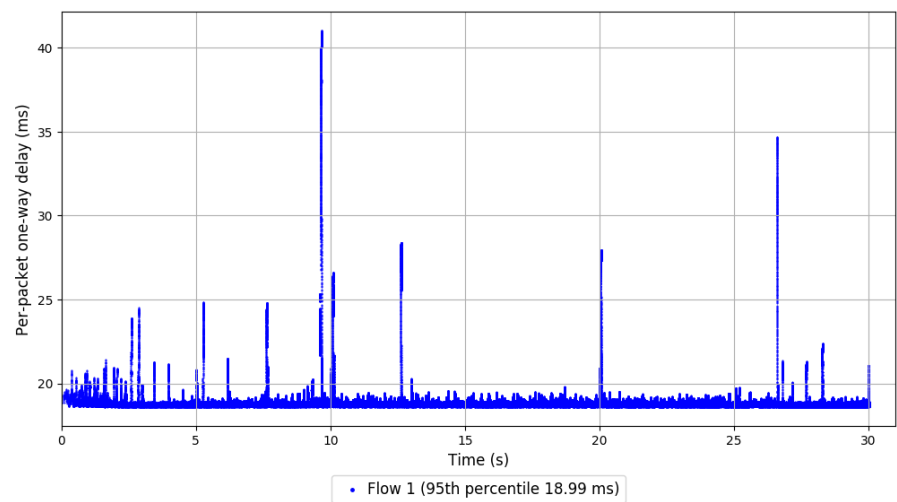
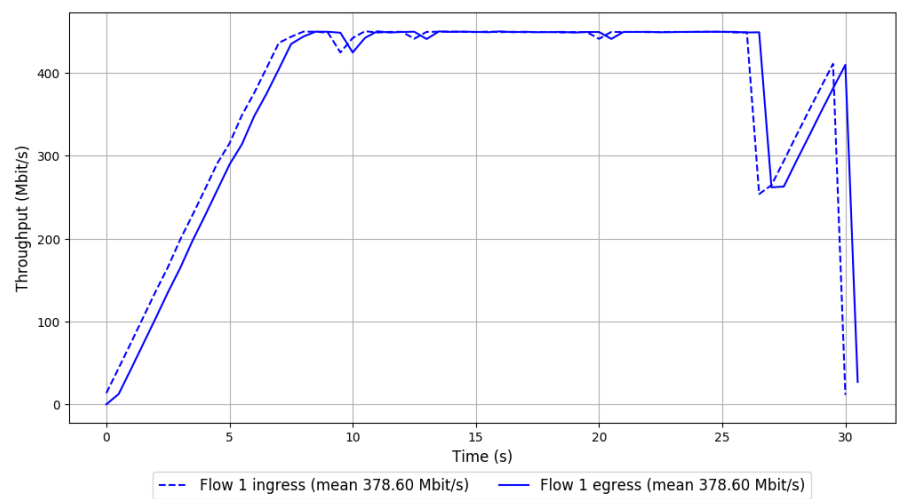
-- Flow 1:

Average throughput: 378.60 Mbit/s

95th percentile per-packet one-way delay: 18.991 ms

Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-07-24 08:31:35

End at: 2018-07-24 08:32:05

Local clock offset: 4.552 ms

Remote clock offset: 1.17 ms

Below is generated by plot.py at 2018-07-24 12:06:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 305.90 Mbit/s

95th percentile per-packet one-way delay: 19.308 ms

Loss rate: 0.01%

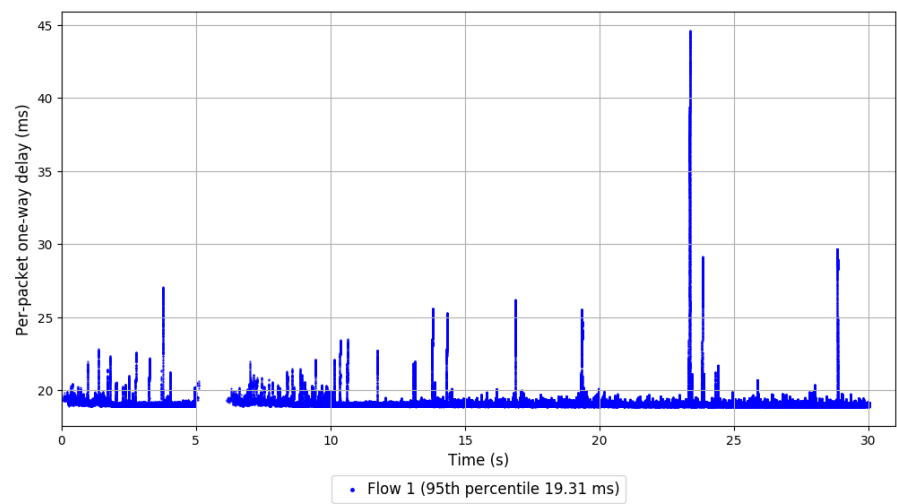
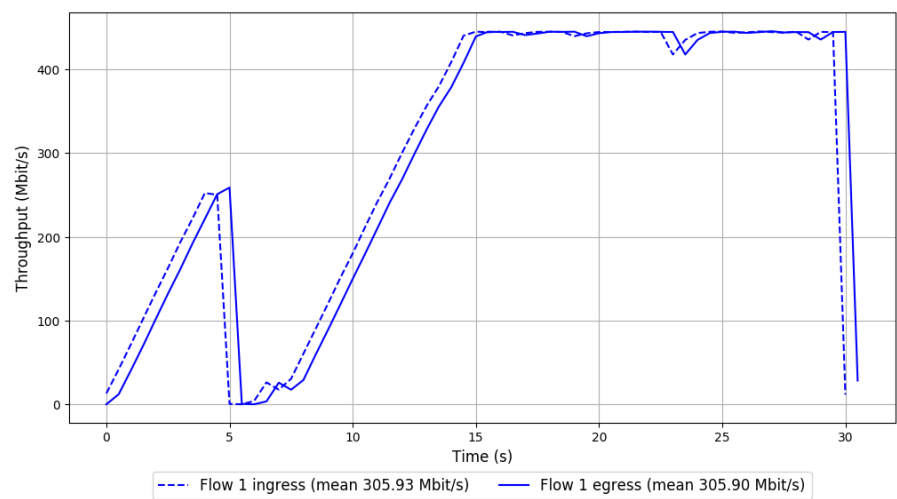
-- Flow 1:

Average throughput: 305.90 Mbit/s

95th percentile per-packet one-way delay: 19.308 ms

Loss rate: 0.01%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-07-24 08:56:47

End at: 2018-07-24 08:57:17

Local clock offset: 3.433 ms

Remote clock offset: 0.889 ms

Below is generated by plot.py at 2018-07-24 12:08:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 359.47 Mbit/s

95th percentile per-packet one-way delay: 19.269 ms

Loss rate: 0.01%

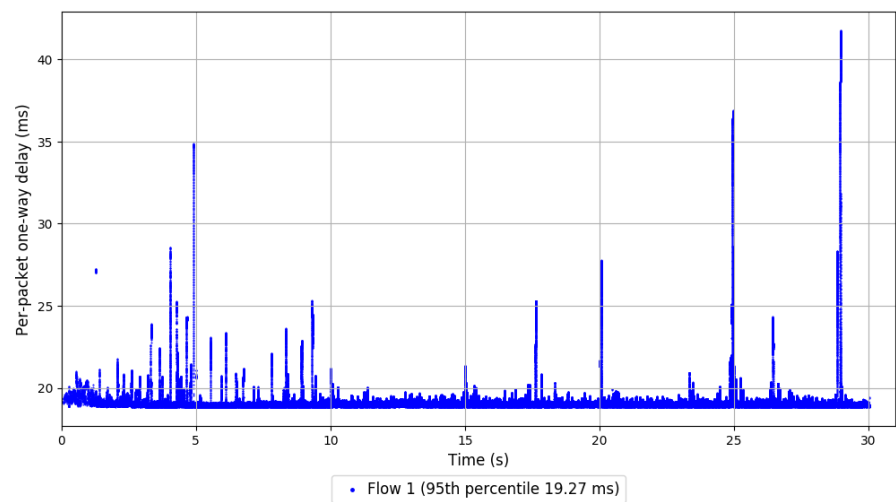
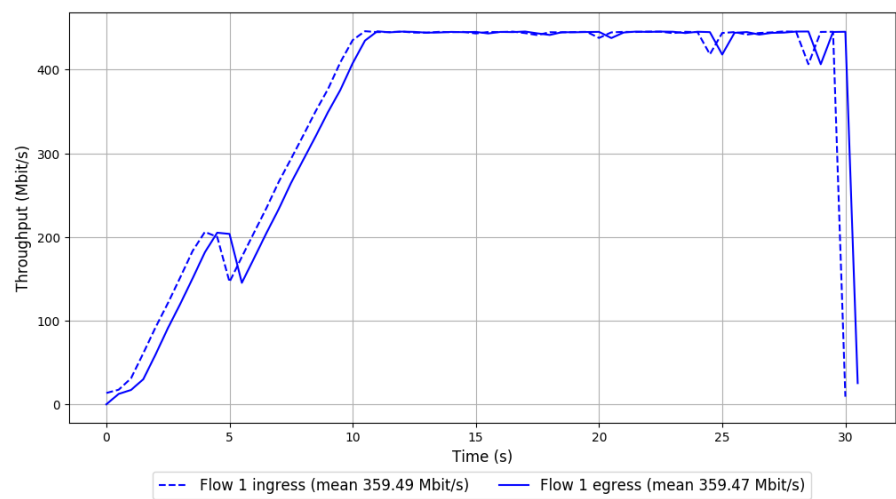
-- Flow 1:

Average throughput: 359.47 Mbit/s

95th percentile per-packet one-way delay: 19.269 ms

Loss rate: 0.01%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-07-24 09:22:36

End at: 2018-07-24 09:23:06

Local clock offset: 3.47 ms

Remote clock offset: 0.81 ms

Below is generated by plot.py at 2018-07-24 12:09:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 392.07 Mbit/s

95th percentile per-packet one-way delay: 19.091 ms

Loss rate: 0.00%

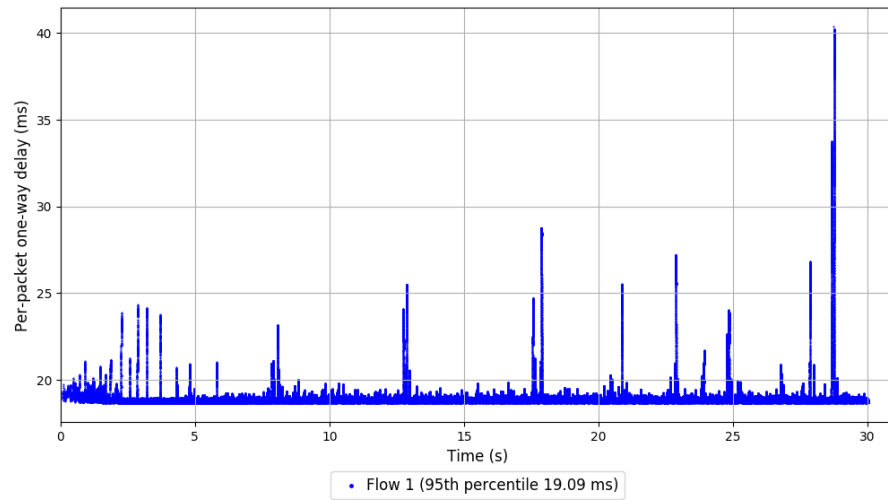
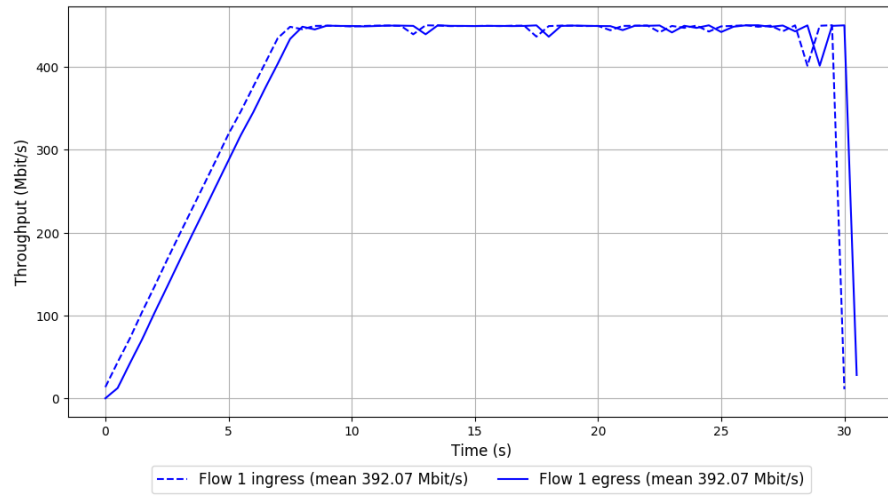
-- Flow 1:

Average throughput: 392.07 Mbit/s

95th percentile per-packet one-way delay: 19.091 ms

Loss rate: 0.00%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-07-24 09:48:04

End at: 2018-07-24 09:48:35

Local clock offset: 4.354 ms

Remote clock offset: 0.625 ms

Below is generated by plot.py at 2018-07-24 12:09:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 387.11 Mbit/s

95th percentile per-packet one-way delay: 19.239 ms

Loss rate: 0.00%

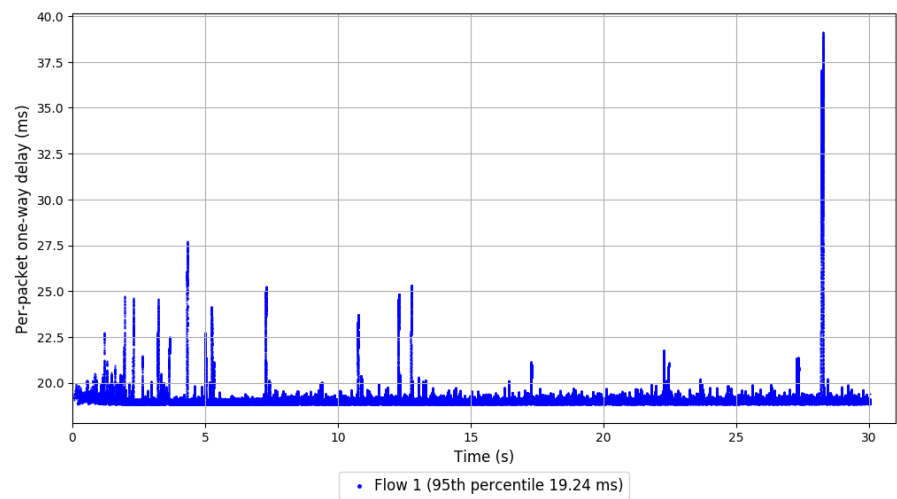
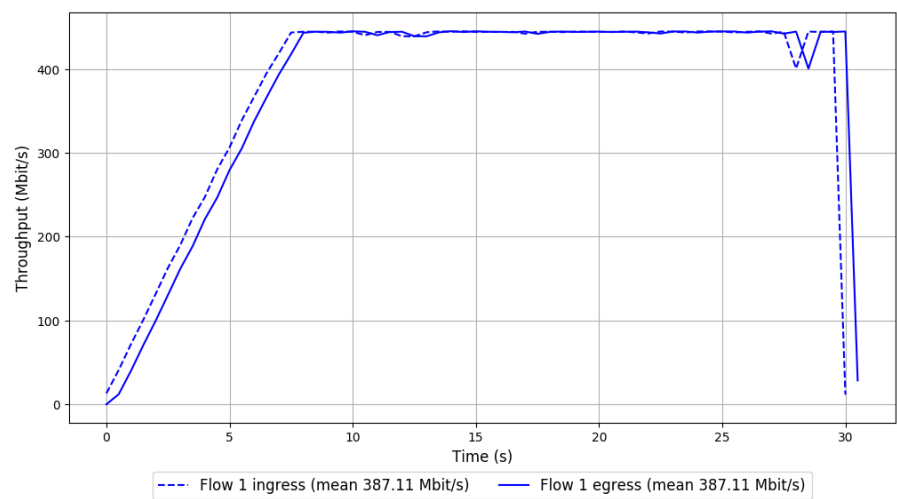
-- Flow 1:

Average throughput: 387.11 Mbit/s

95th percentile per-packet one-way delay: 19.239 ms

Loss rate: 0.00%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-07-24 10:13:46

End at: 2018-07-24 10:14:16

Local clock offset: 4.567 ms

Remote clock offset: 0.643 ms

Below is generated by plot.py at 2018-07-24 12:09:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 281.09 Mbit/s

95th percentile per-packet one-way delay: 19.186 ms

Loss rate: 0.01%

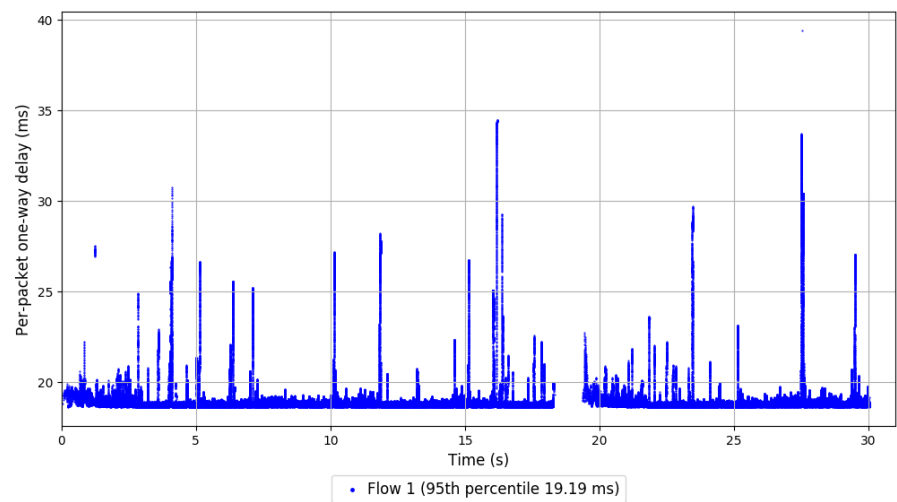
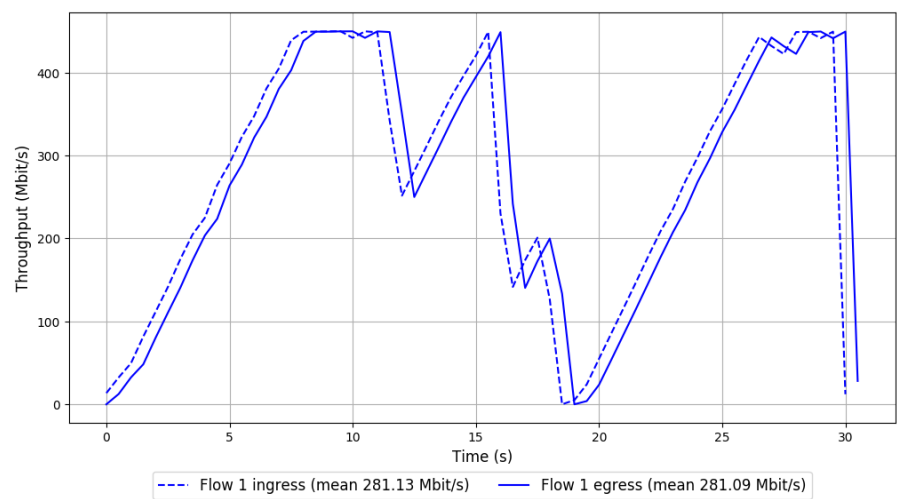
-- Flow 1:

Average throughput: 281.09 Mbit/s

95th percentile per-packet one-way delay: 19.186 ms

Loss rate: 0.01%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-07-24 10:39:32

End at: 2018-07-24 10:40:02

Local clock offset: 4.73 ms

Remote clock offset: 0.606 ms

Below is generated by plot.py at 2018-07-24 12:09:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 331.00 Mbit/s

95th percentile per-packet one-way delay: 18.797 ms

Loss rate: 0.03%

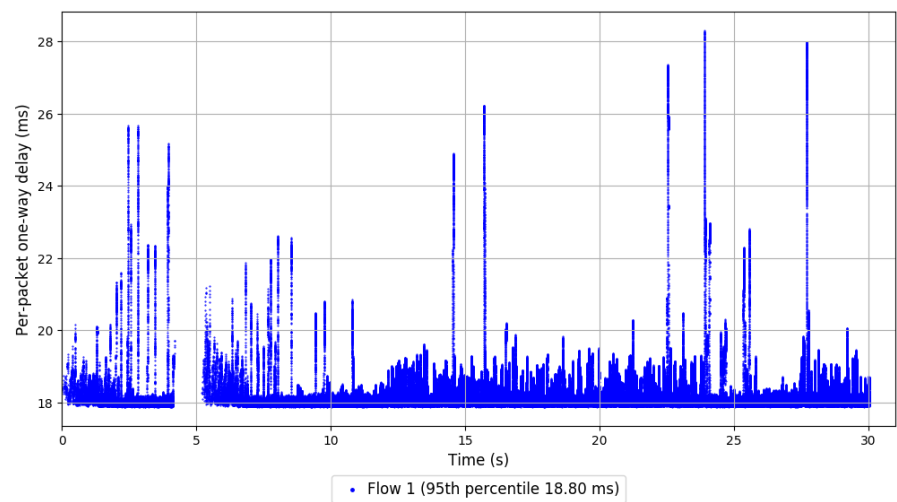
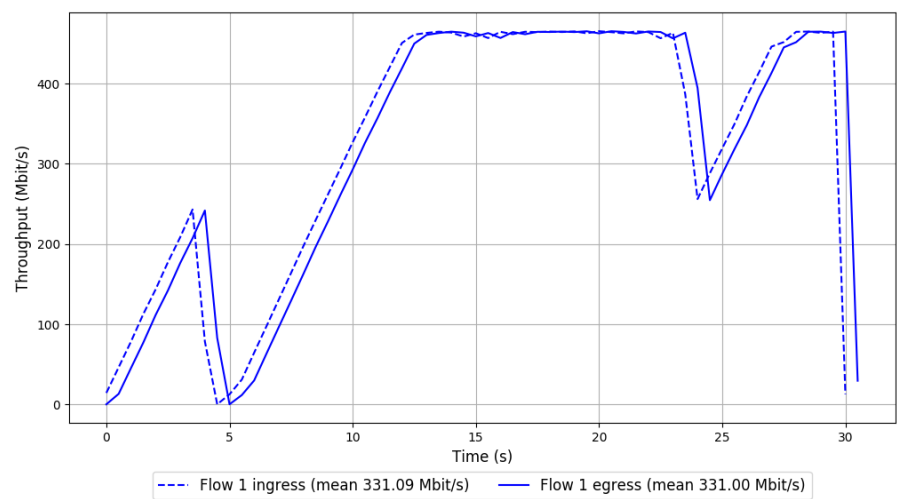
-- Flow 1:

Average throughput: 331.00 Mbit/s

95th percentile per-packet one-way delay: 18.797 ms

Loss rate: 0.03%

Run 10: Report of LEDBAT — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2018-07-24 06:53:25

End at: 2018-07-24 06:53:55

Local clock offset: 7.164 ms

Remote clock offset: 2.526 ms

Below is generated by plot.py at 2018-07-24 12:14:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 858.39 Mbit/s

95th percentile per-packet one-way delay: 57.838 ms

Loss rate: 0.54%

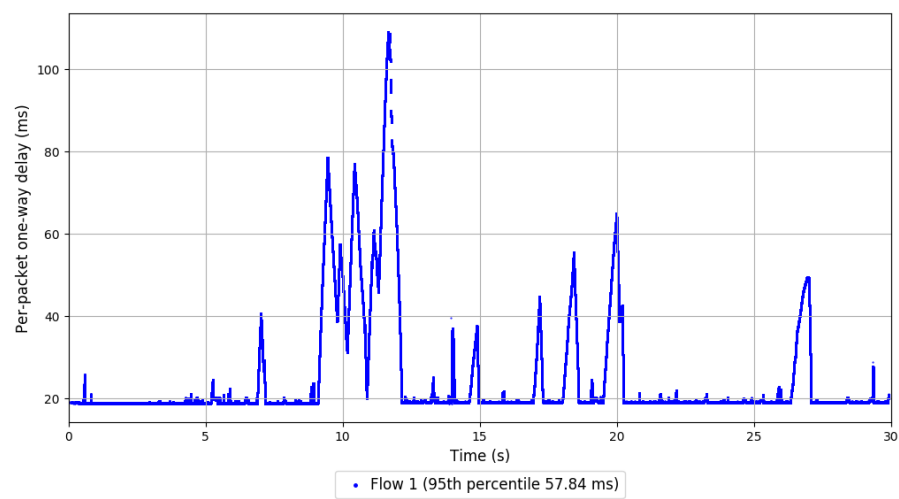
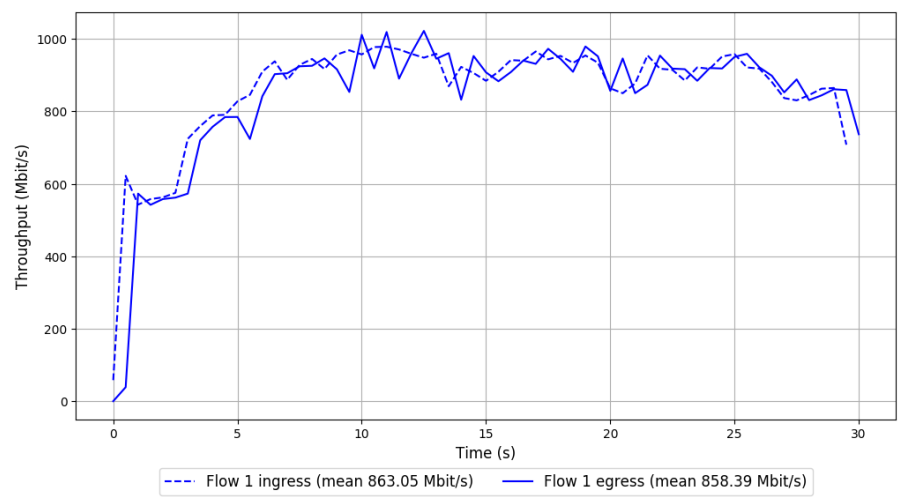
-- Flow 1:

Average throughput: 858.39 Mbit/s

95th percentile per-packet one-way delay: 57.838 ms

Loss rate: 0.54%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

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

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

Local clock offset: 5.722 ms

Remote clock offset: 2.443 ms

Below is generated by plot.py at 2018-07-24 12:16:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 914.48 Mbit/s

95th percentile per-packet one-way delay: 84.003 ms

Loss rate: 1.32%

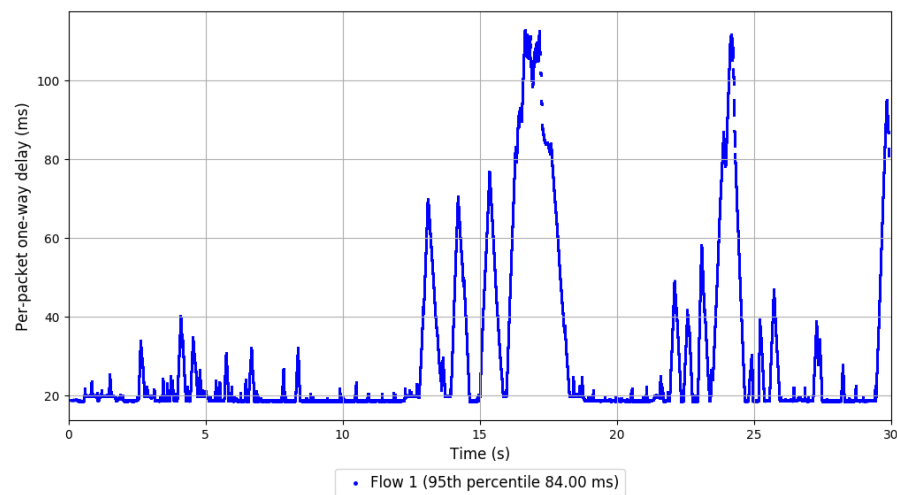
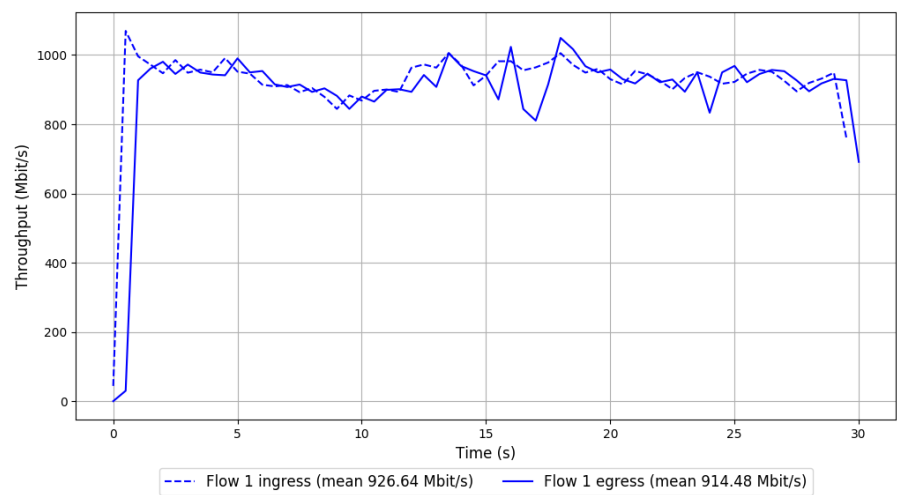
-- Flow 1:

Average throughput: 914.48 Mbit/s

95th percentile per-packet one-way delay: 84.003 ms

Loss rate: 1.32%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-07-24 07:44:46

End at: 2018-07-24 07:45:16

Local clock offset: 4.766 ms

Remote clock offset: 2.167 ms

Below is generated by plot.py at 2018-07-24 12:16:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 901.79 Mbit/s

95th percentile per-packet one-way delay: 24.640 ms

Loss rate: 0.22%

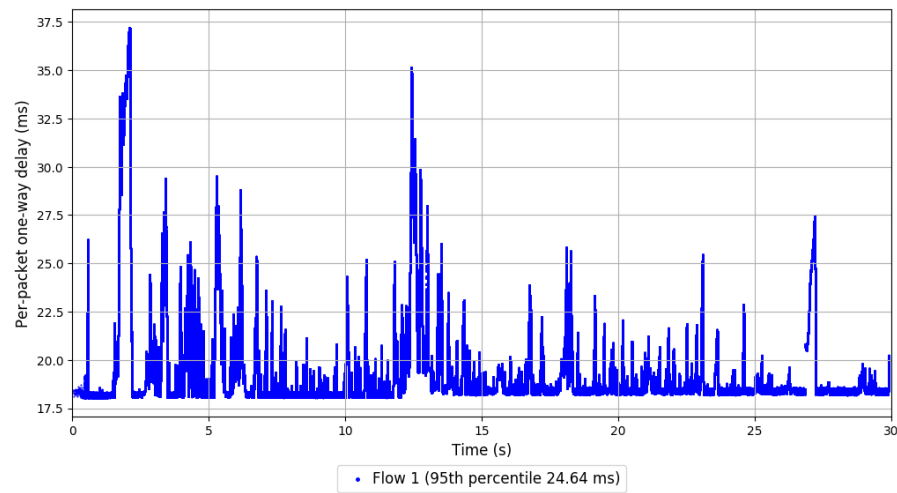
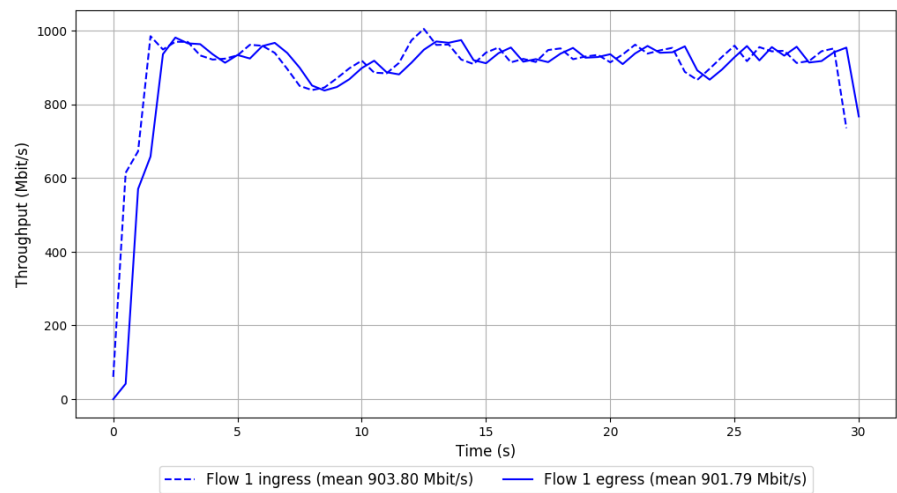
-- Flow 1:

Average throughput: 901.79 Mbit/s

95th percentile per-packet one-way delay: 24.640 ms

Loss rate: 0.22%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-07-24 08:10:20

End at: 2018-07-24 08:10:50

Local clock offset: 4.529 ms

Remote clock offset: 1.449 ms

Below is generated by plot.py at 2018-07-24 12:18:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 915.31 Mbit/s

95th percentile per-packet one-way delay: 21.962 ms

Loss rate: 0.40%

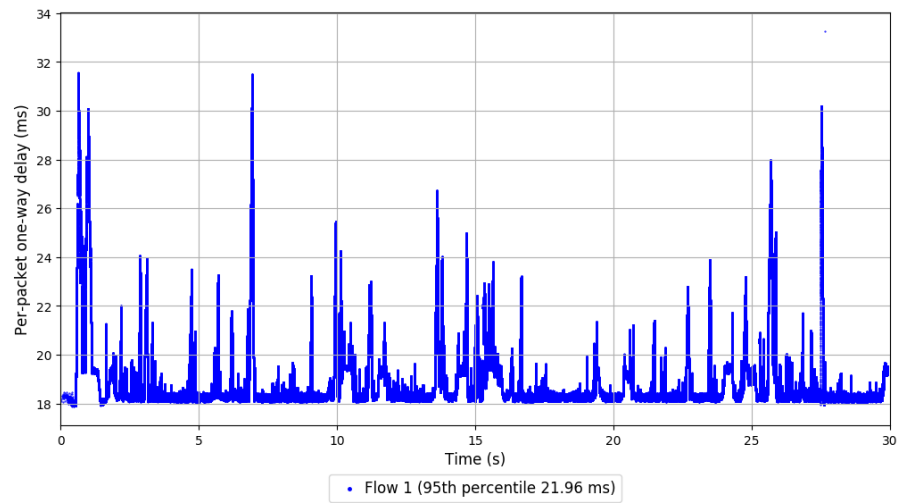
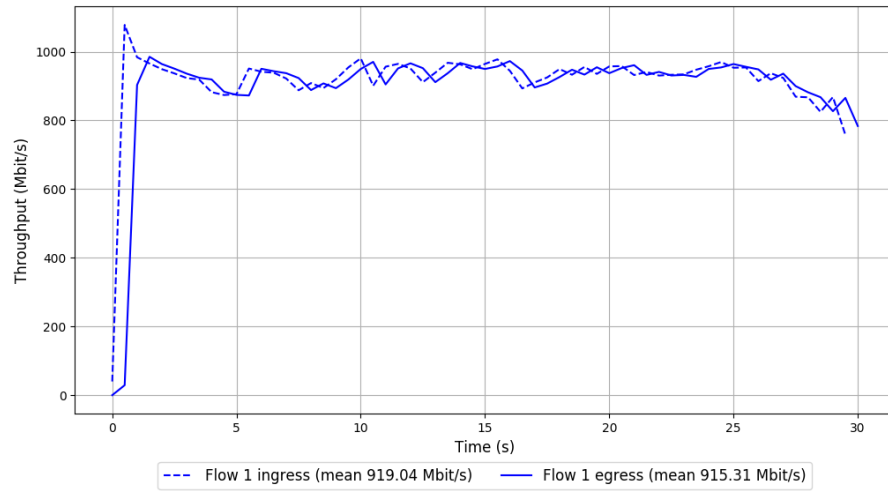
-- Flow 1:

Average throughput: 915.31 Mbit/s

95th percentile per-packet one-way delay: 21.962 ms

Loss rate: 0.40%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-07-24 08:35:59

End at: 2018-07-24 08:36:29

Local clock offset: 4.201 ms

Remote clock offset: 1.116 ms

Below is generated by plot.py at 2018-07-24 12:19:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 901.67 Mbit/s

95th percentile per-packet one-way delay: 30.281 ms

Loss rate: 1.07%

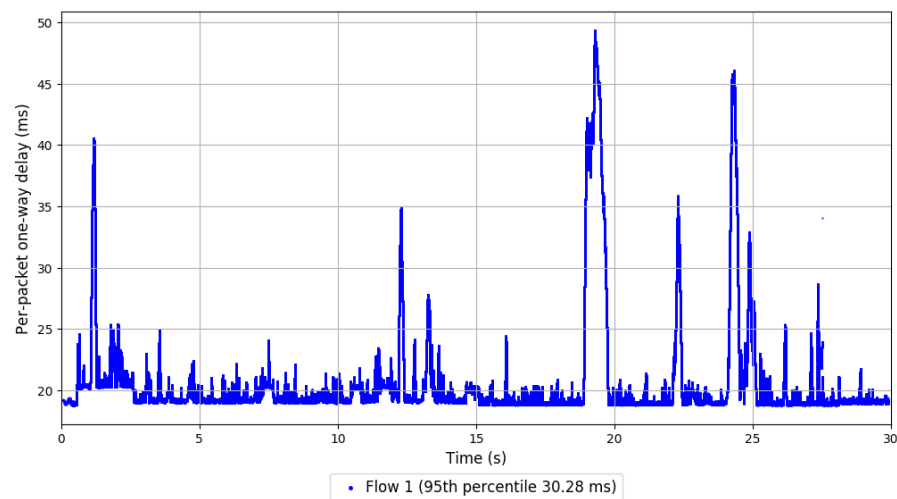
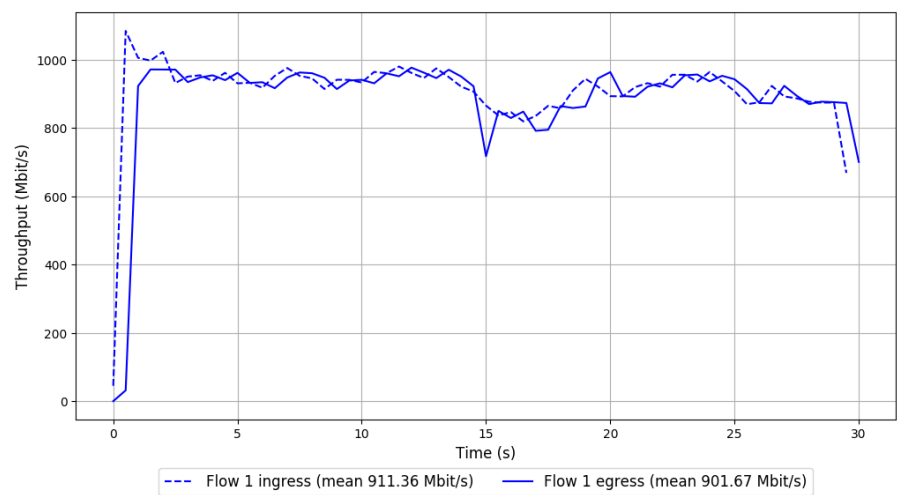
-- Flow 1:

Average throughput: 901.67 Mbit/s

95th percentile per-packet one-way delay: 30.281 ms

Loss rate: 1.07%

Run 5: Report of PCC-Allegro — Data Link



Run 6: Statistics of PCC-Allegro

Start at: 2018-07-24 09:01:15

End at: 2018-07-24 09:01:45

Local clock offset: 3.381 ms

Remote clock offset: 0.845 ms

Below is generated by plot.py at 2018-07-24 12:19:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 898.62 Mbit/s

95th percentile per-packet one-way delay: 26.978 ms

Loss rate: 0.96%

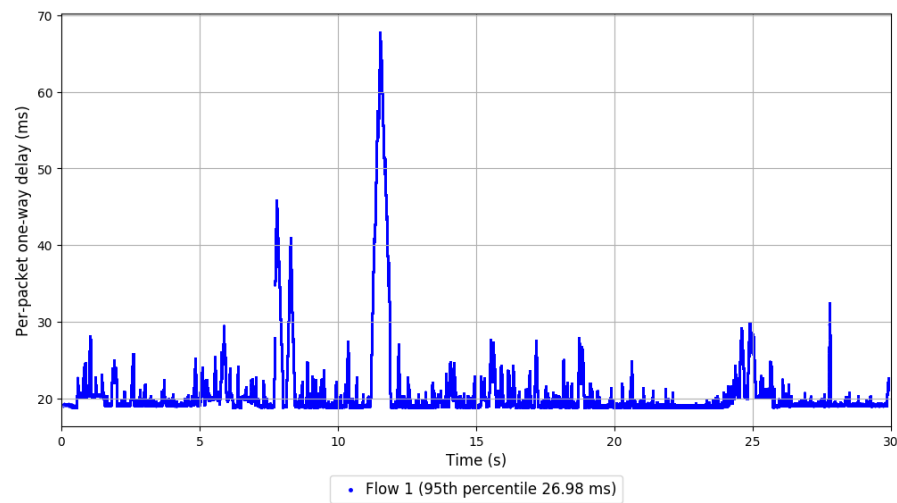
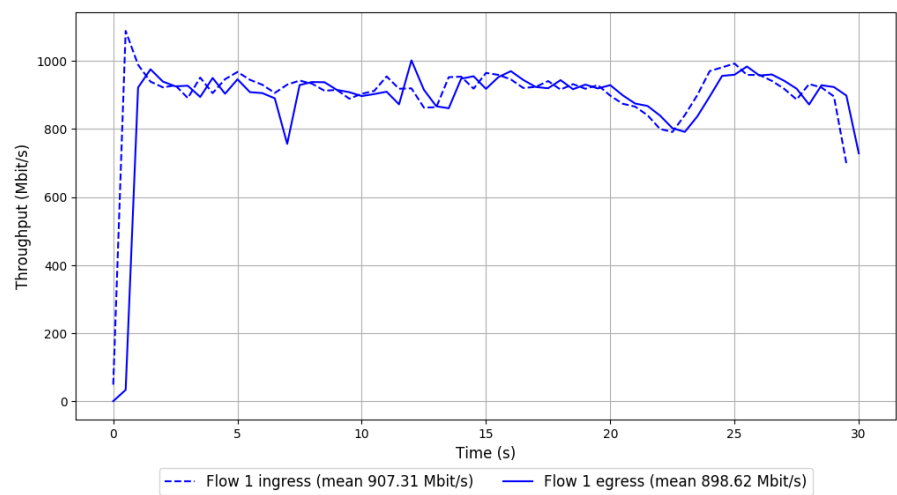
-- Flow 1:

Average throughput: 898.62 Mbit/s

95th percentile per-packet one-way delay: 26.978 ms

Loss rate: 0.96%

Run 6: Report of PCC-Allegro — Data Link



Run 7: Statistics of PCC-Allegro

Start at: 2018-07-24 09:27:05

End at: 2018-07-24 09:27:35

Local clock offset: 3.484 ms

Remote clock offset: 0.694 ms

Below is generated by plot.py at 2018-07-24 12:19:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 918.65 Mbit/s

95th percentile per-packet one-way delay: 22.302 ms

Loss rate: 0.64%

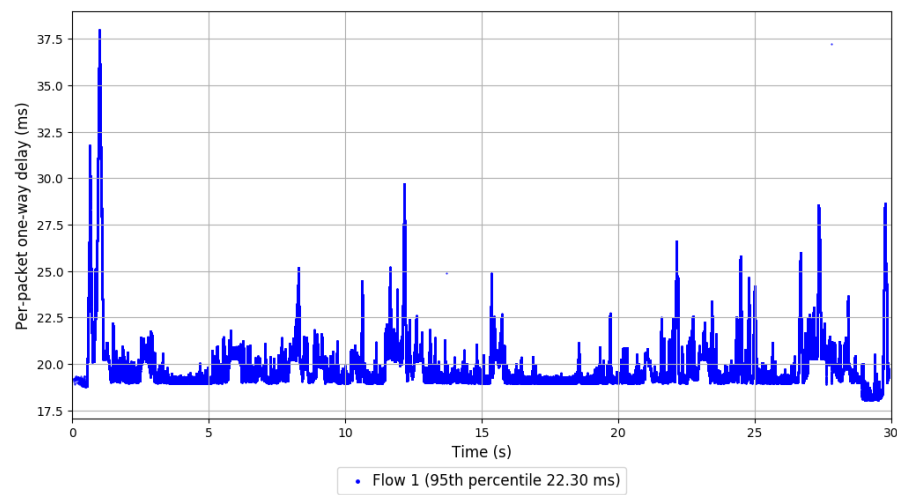
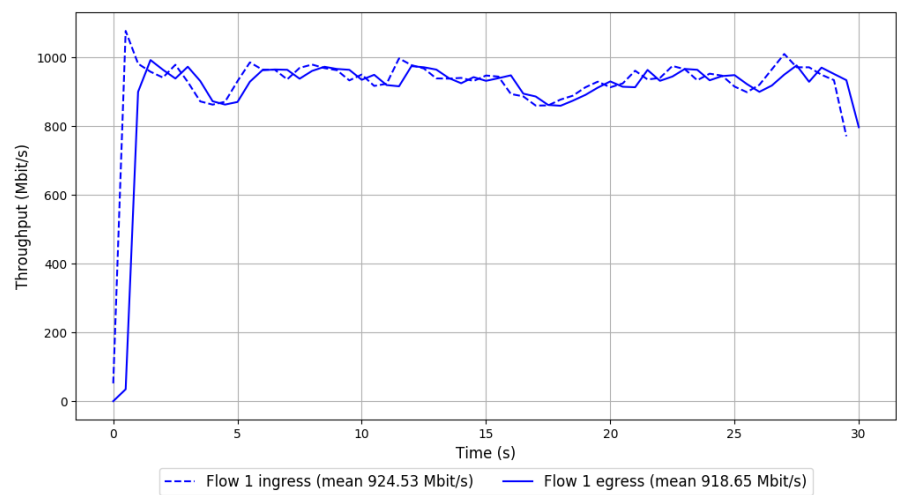
-- Flow 1:

Average throughput: 918.65 Mbit/s

95th percentile per-packet one-way delay: 22.302 ms

Loss rate: 0.64%

Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-07-24 09:52:34

End at: 2018-07-24 09:53:04

Local clock offset: 4.488 ms

Remote clock offset: 0.666 ms

Below is generated by plot.py at 2018-07-24 12:19:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 869.65 Mbit/s

95th percentile per-packet one-way delay: 20.934 ms

Loss rate: 0.19%

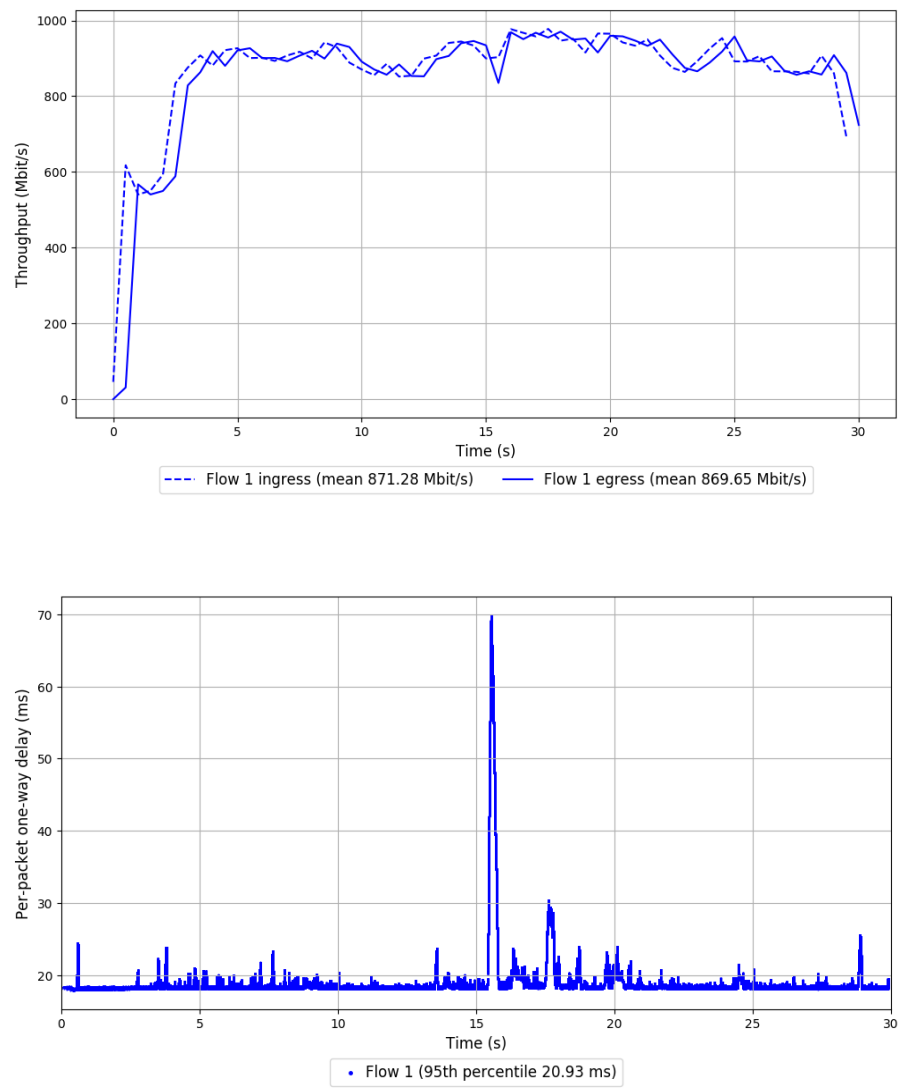
-- Flow 1:

Average throughput: 869.65 Mbit/s

95th percentile per-packet one-way delay: 20.934 ms

Loss rate: 0.19%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-07-24 10:18:10

End at: 2018-07-24 10:18:40

Local clock offset: 4.493 ms

Remote clock offset: 0.654 ms

Below is generated by plot.py at 2018-07-24 12:26:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 894.16 Mbit/s

95th percentile per-packet one-way delay: 20.819 ms

Loss rate: 0.96%

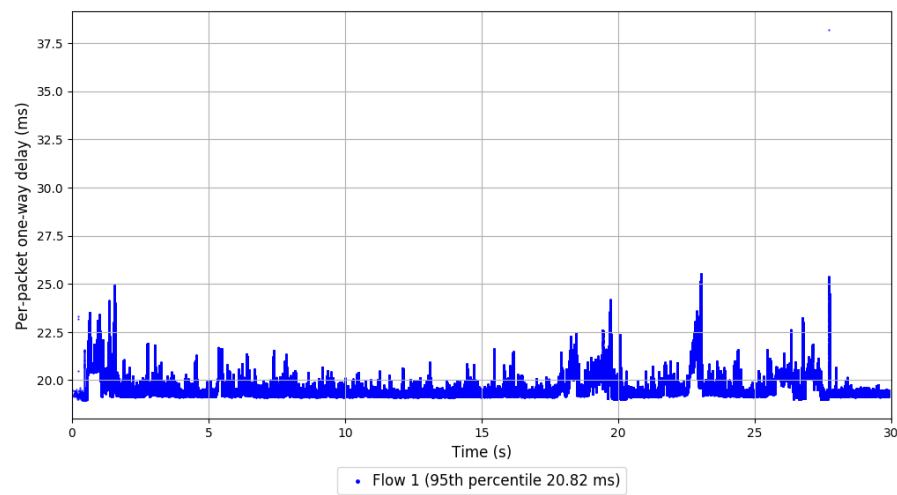
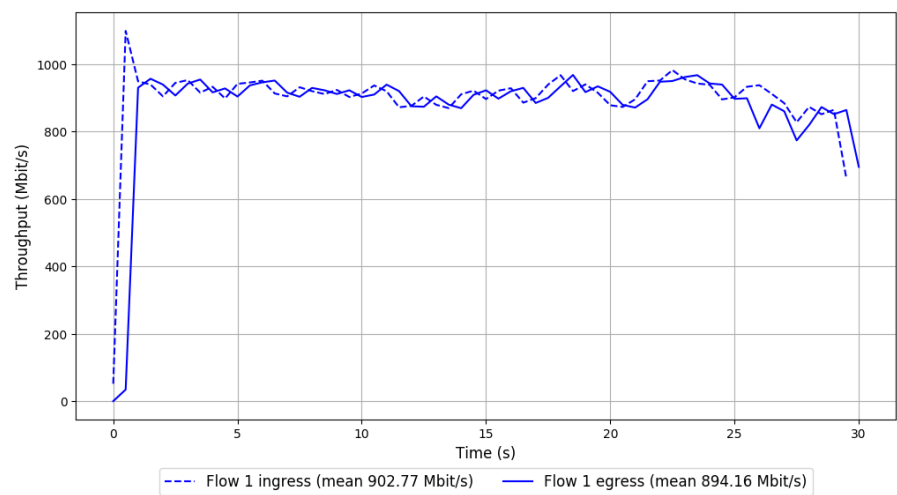
-- Flow 1:

Average throughput: 894.16 Mbit/s

95th percentile per-packet one-way delay: 20.819 ms

Loss rate: 0.96%

Run 9: Report of PCC-Allegro — Data Link



Run 10: Statistics of PCC-Allegro

Start at: 2018-07-24 10:43:58

End at: 2018-07-24 10:44:28

Local clock offset: 4.647 ms

Remote clock offset: 0.705 ms

Below is generated by plot.py at 2018-07-24 12:27:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 904.04 Mbit/s

95th percentile per-packet one-way delay: 21.568 ms

Loss rate: 0.94%

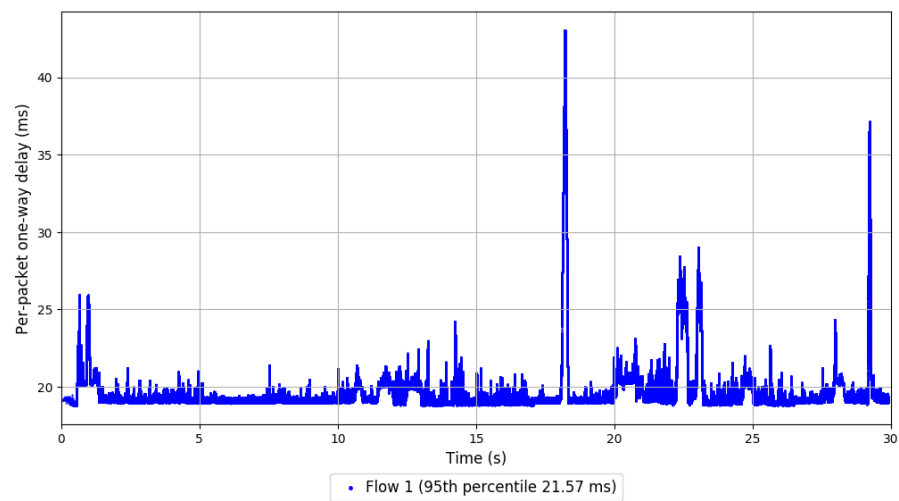
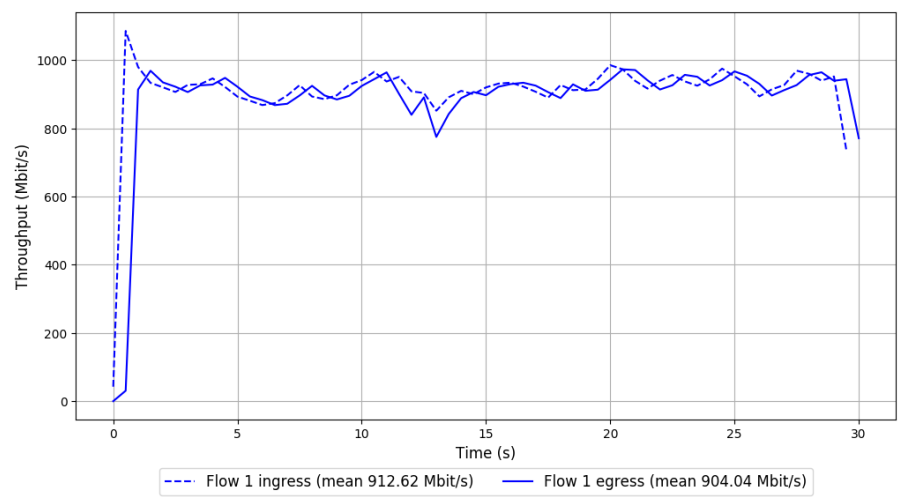
-- Flow 1:

Average throughput: 904.04 Mbit/s

95th percentile per-packet one-way delay: 21.568 ms

Loss rate: 0.94%

Run 10: Report of PCC-Allegro — Data Link

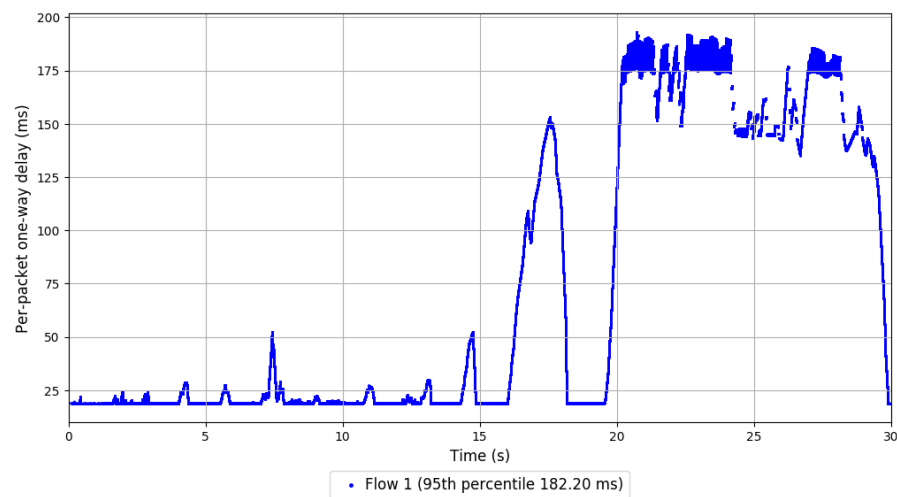
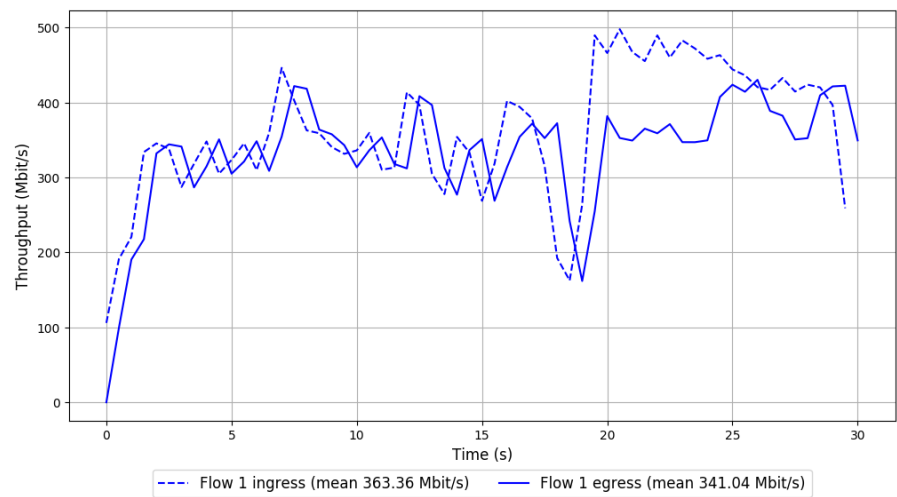


```
Run 1: Statistics of PCC-Expr

Start at: 2018-07-24 06:57:57
End at: 2018-07-24 06:58:27
Local clock offset: 7.614 ms
Remote clock offset: 2.515 ms

# Below is generated by plot.py at 2018-07-24 12:27:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 341.04 Mbit/s
95th percentile per-packet one-way delay: 182.199 ms
Loss rate: 6.14%
-- Flow 1:
Average throughput: 341.04 Mbit/s
95th percentile per-packet one-way delay: 182.199 ms
Loss rate: 6.14%
```

Run 1: Report of PCC-Expr — Data Link



Run 2: Statistics of PCC-Expr

Start at: 2018-07-24 07:23:42

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

Local clock offset: 5.804 ms

Remote clock offset: 2.409 ms

Below is generated by plot.py at 2018-07-24 12:27:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 344.51 Mbit/s

95th percentile per-packet one-way delay: 73.785 ms

Loss rate: 0.00%

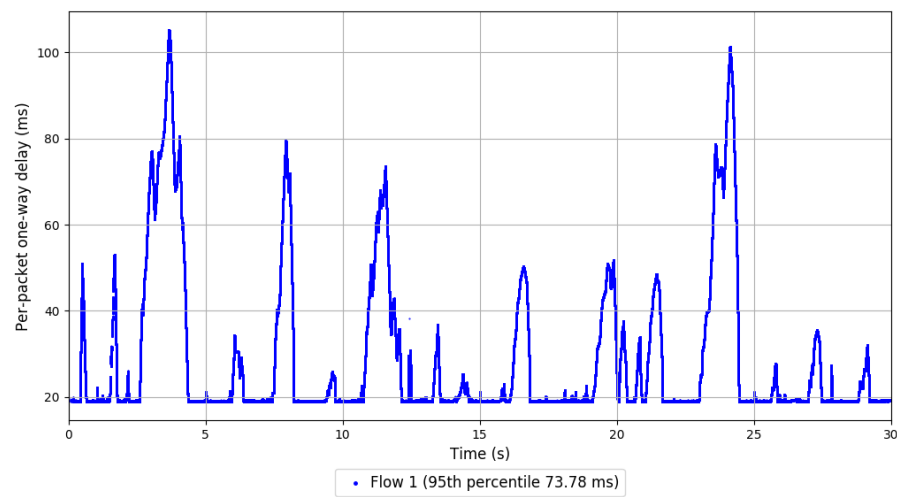
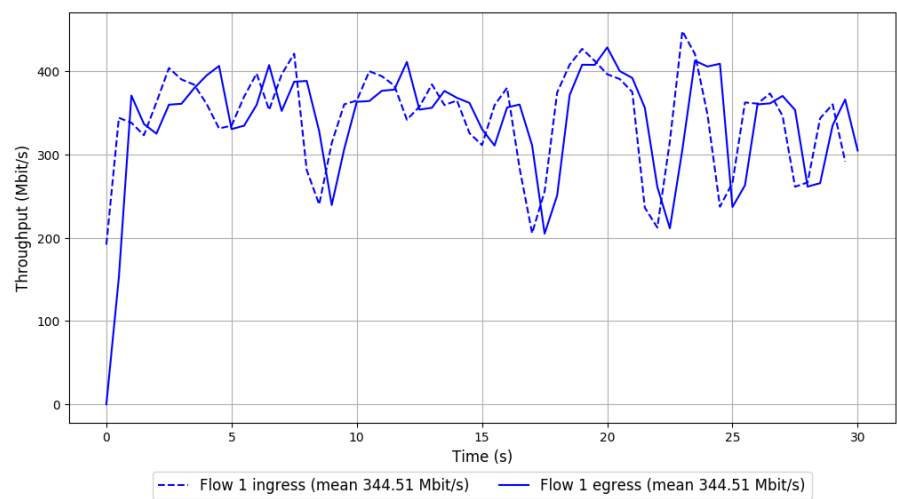
-- Flow 1:

Average throughput: 344.51 Mbit/s

95th percentile per-packet one-way delay: 73.785 ms

Loss rate: 0.00%

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2018-07-24 07:49:20

End at: 2018-07-24 07:49:50

Local clock offset: 4.697 ms

Remote clock offset: 1.998 ms

Below is generated by plot.py at 2018-07-24 12:27:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 349.14 Mbit/s

95th percentile per-packet one-way delay: 150.797 ms

Loss rate: 0.75%

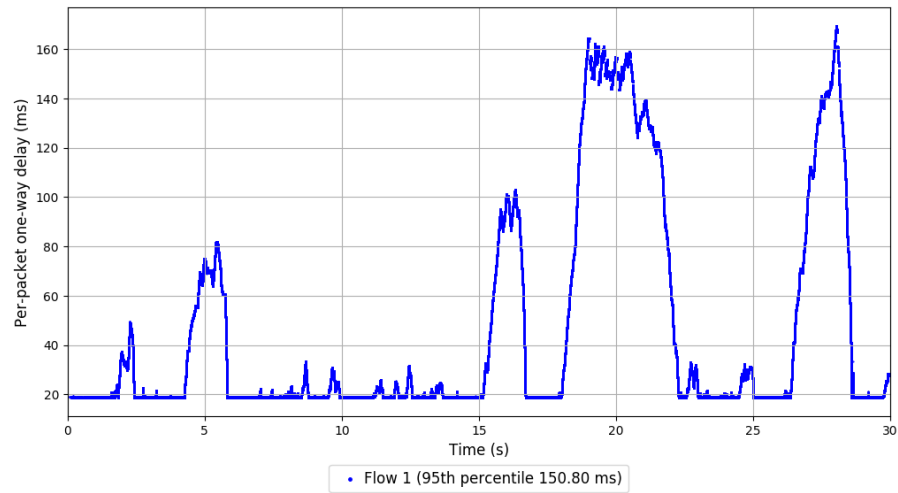
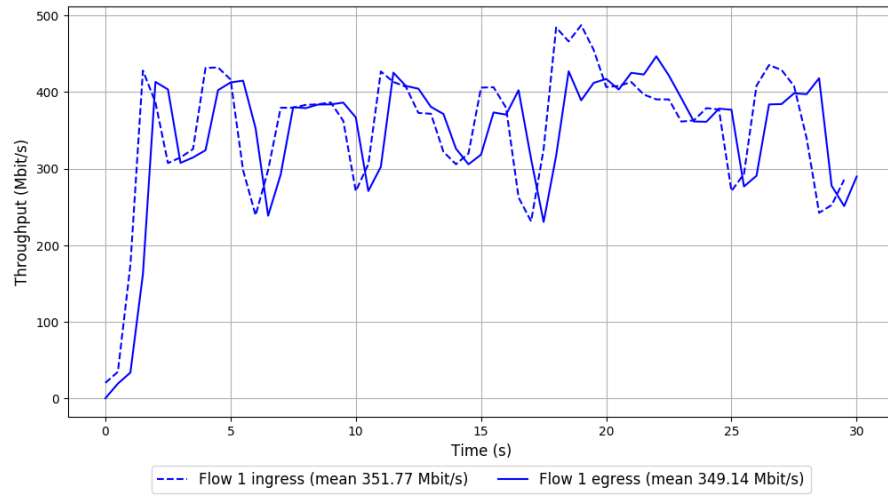
-- Flow 1:

Average throughput: 349.14 Mbit/s

95th percentile per-packet one-way delay: 150.797 ms

Loss rate: 0.75%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2018-07-24 08:14:53

End at: 2018-07-24 08:15:23

Local clock offset: 4.483 ms

Remote clock offset: 1.423 ms

Below is generated by plot.py at 2018-07-24 12:27:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 376.13 Mbit/s

95th percentile per-packet one-way delay: 77.463 ms

Loss rate: 0.00%

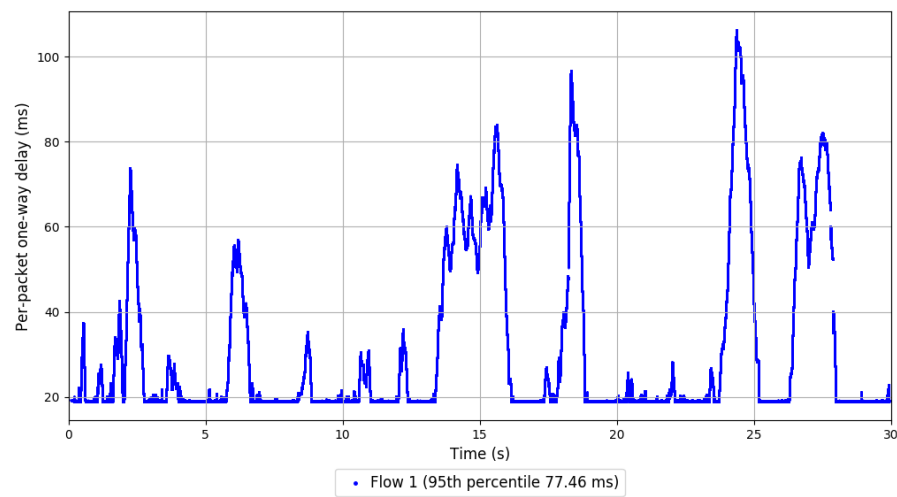
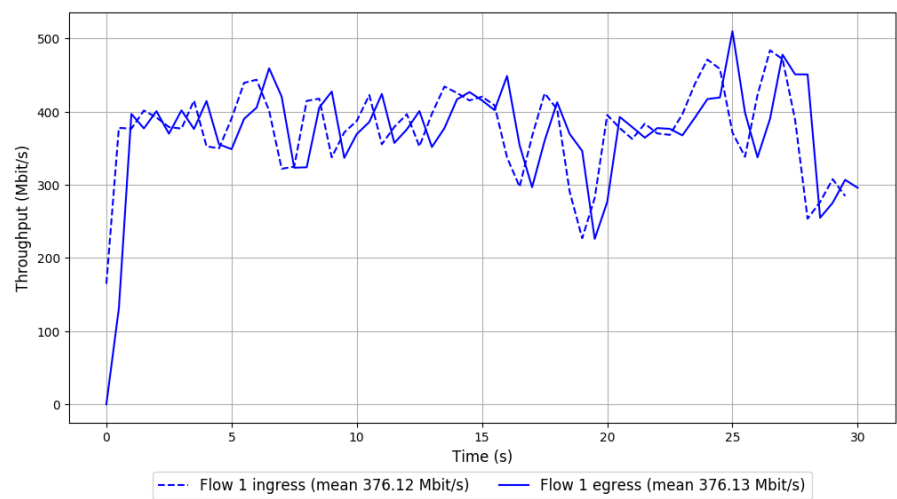
-- Flow 1:

Average throughput: 376.13 Mbit/s

95th percentile per-packet one-way delay: 77.463 ms

Loss rate: 0.00%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2018-07-24 08:40:32

End at: 2018-07-24 08:41:02

Local clock offset: 3.88 ms

Remote clock offset: 1.035 ms

Below is generated by plot.py at 2018-07-24 12:27:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 368.84 Mbit/s

95th percentile per-packet one-way delay: 148.993 ms

Loss rate: 0.93%

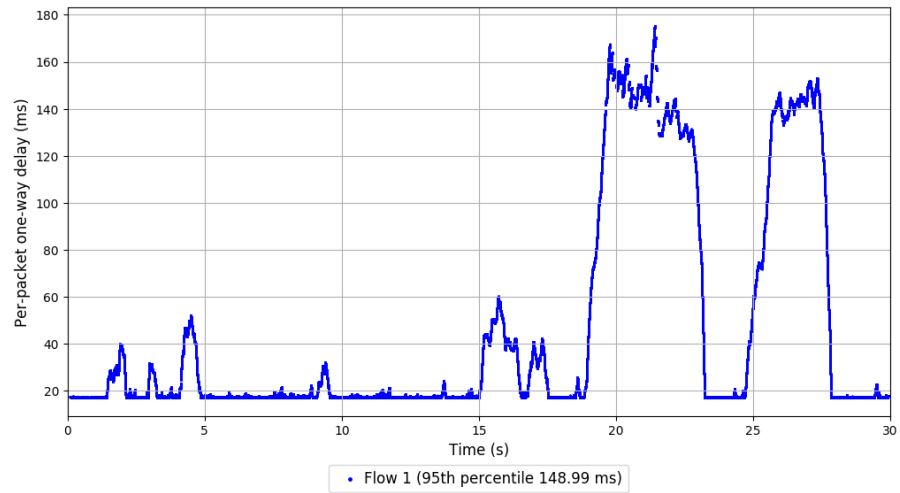
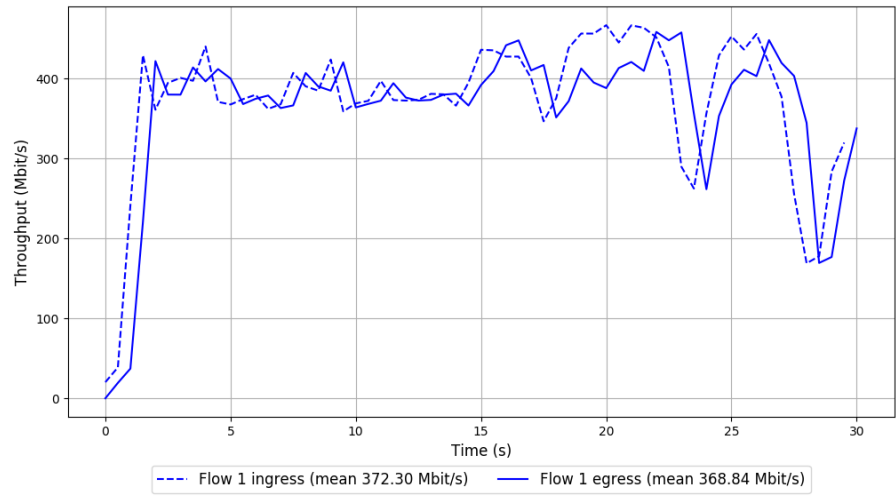
-- Flow 1:

Average throughput: 368.84 Mbit/s

95th percentile per-packet one-way delay: 148.993 ms

Loss rate: 0.93%

Run 5: Report of PCC-Expr — Data Link



Run 6: Statistics of PCC-Expr

Start at: 2018-07-24 09:05:48

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

Local clock offset: 3.38 ms

Remote clock offset: 0.862 ms

Below is generated by plot.py at 2018-07-24 12:27:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 342.91 Mbit/s

95th percentile per-packet one-way delay: 153.025 ms

Loss rate: 1.04%

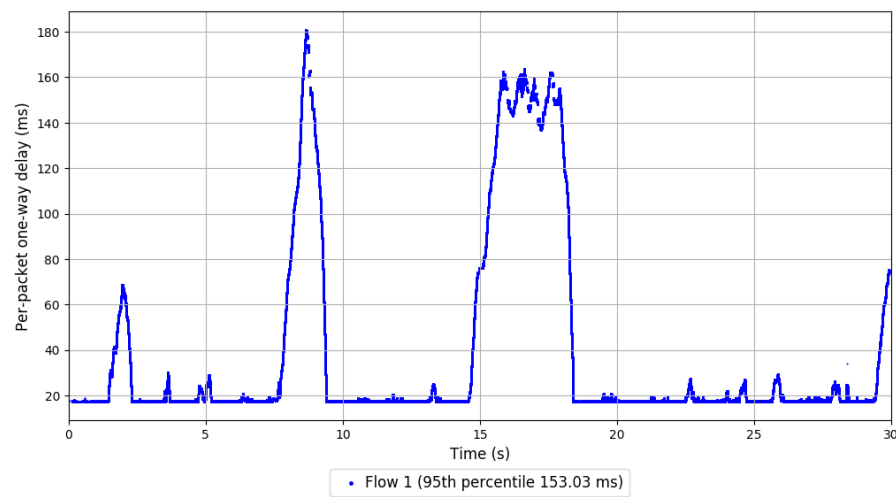
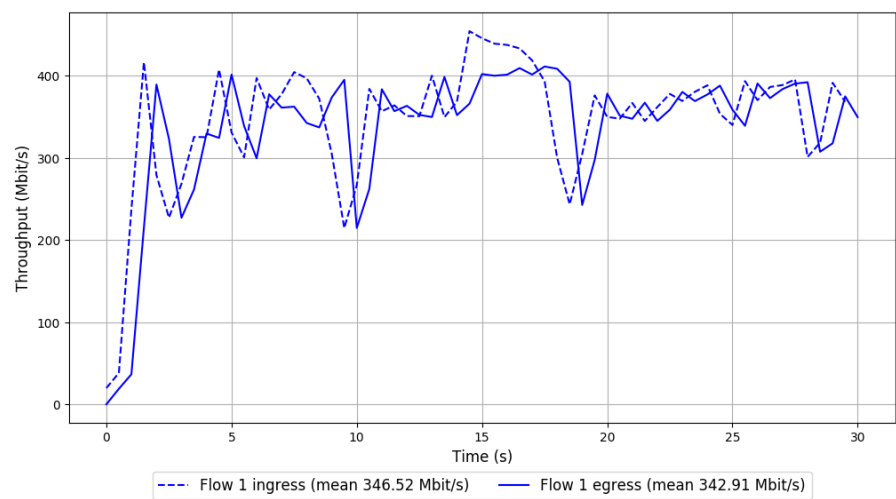
-- Flow 1:

Average throughput: 342.91 Mbit/s

95th percentile per-packet one-way delay: 153.025 ms

Loss rate: 1.04%

Run 6: Report of PCC-Expr — Data Link



Run 7: Statistics of PCC-Expr

Start at: 2018-07-24 09:31:38

End at: 2018-07-24 09:32:08

Local clock offset: 3.401 ms

Remote clock offset: 0.747 ms

Below is generated by plot.py at 2018-07-24 12:31:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 344.17 Mbit/s

95th percentile per-packet one-way delay: 71.958 ms

Loss rate: 0.00%

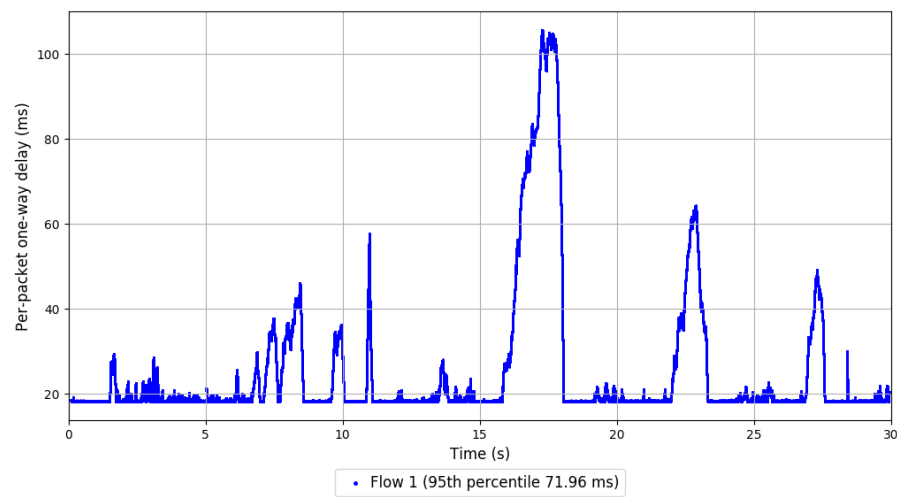
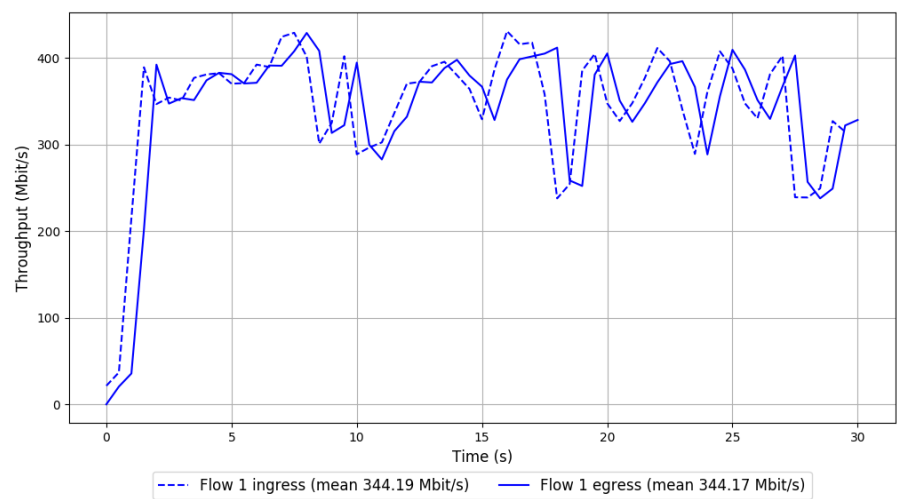
-- Flow 1:

Average throughput: 344.17 Mbit/s

95th percentile per-packet one-way delay: 71.958 ms

Loss rate: 0.00%

Run 7: Report of PCC-Expr — Data Link



Run 8: Statistics of PCC-Expr

Start at: 2018-07-24 09:57:05

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

Local clock offset: 4.598 ms

Remote clock offset: 0.669 ms

Below is generated by plot.py at 2018-07-24 12:33:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 366.06 Mbit/s

95th percentile per-packet one-way delay: 154.704 ms

Loss rate: 2.69%

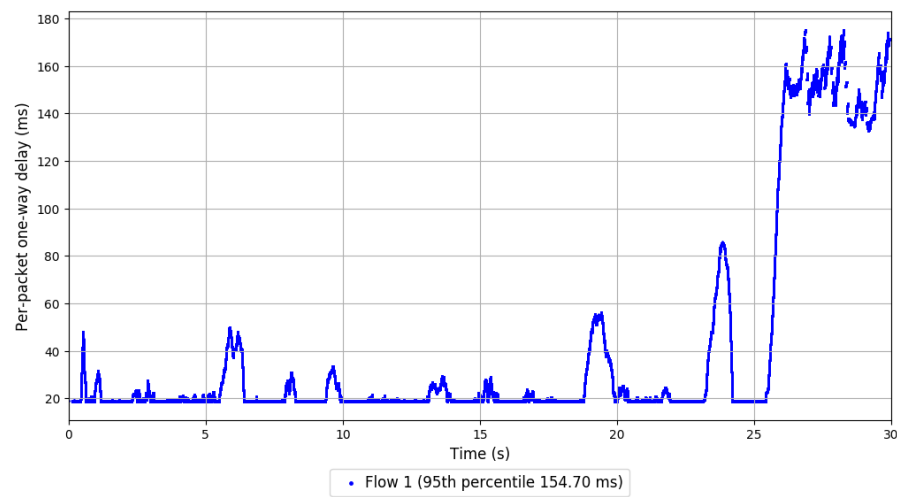
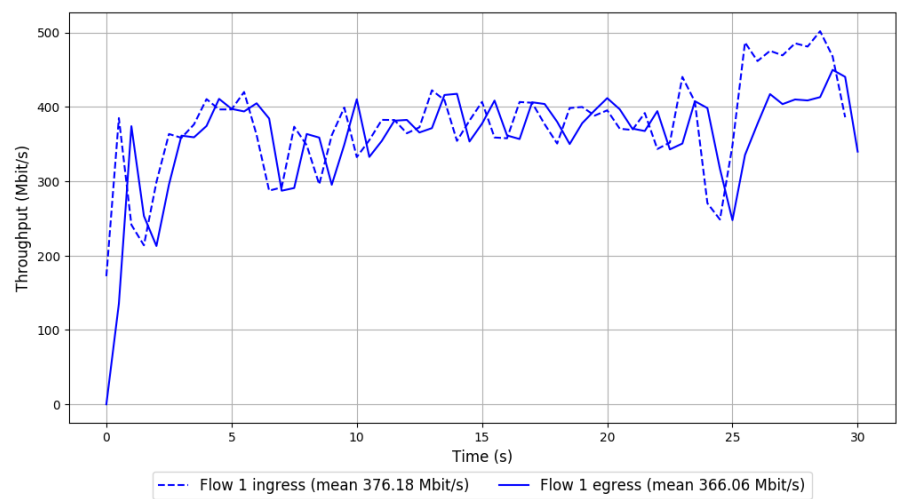
-- Flow 1:

Average throughput: 366.06 Mbit/s

95th percentile per-packet one-way delay: 154.704 ms

Loss rate: 2.69%

Run 8: Report of PCC-Expr — Data Link



Run 9: Statistics of PCC-Expr

Start at: 2018-07-24 10:22:42

End at: 2018-07-24 10:23:12

Local clock offset: 4.548 ms

Remote clock offset: 0.587 ms

Below is generated by plot.py at 2018-07-24 12:33:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 335.15 Mbit/s

95th percentile per-packet one-way delay: 68.959 ms

Loss rate: 0.23%

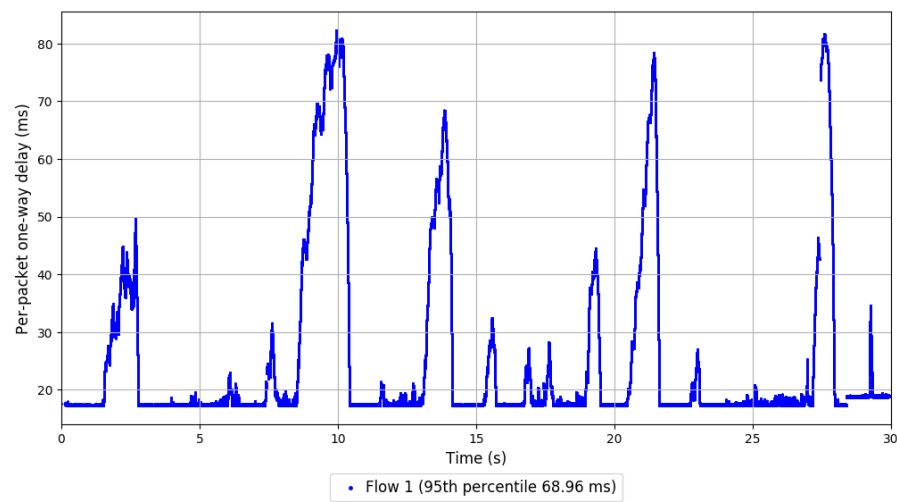
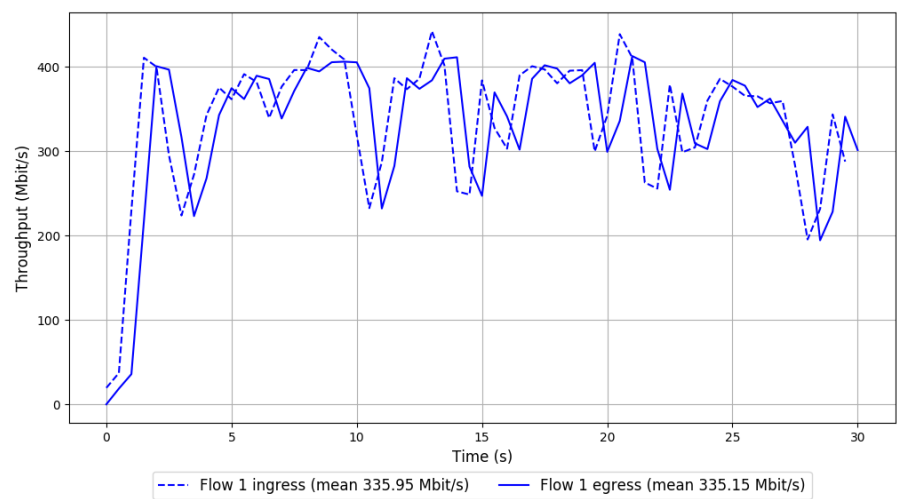
-- Flow 1:

Average throughput: 335.15 Mbit/s

95th percentile per-packet one-way delay: 68.959 ms

Loss rate: 0.23%

Run 9: Report of PCC-Expr — Data Link



Run 10: Statistics of PCC-Expr

Start at: 2018-07-24 10:48:32

End at: 2018-07-24 10:49:02

Local clock offset: 4.761 ms

Remote clock offset: 0.628 ms

Below is generated by plot.py at 2018-07-24 12:34:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 350.66 Mbit/s

95th percentile per-packet one-way delay: 97.084 ms

Loss rate: 0.43%

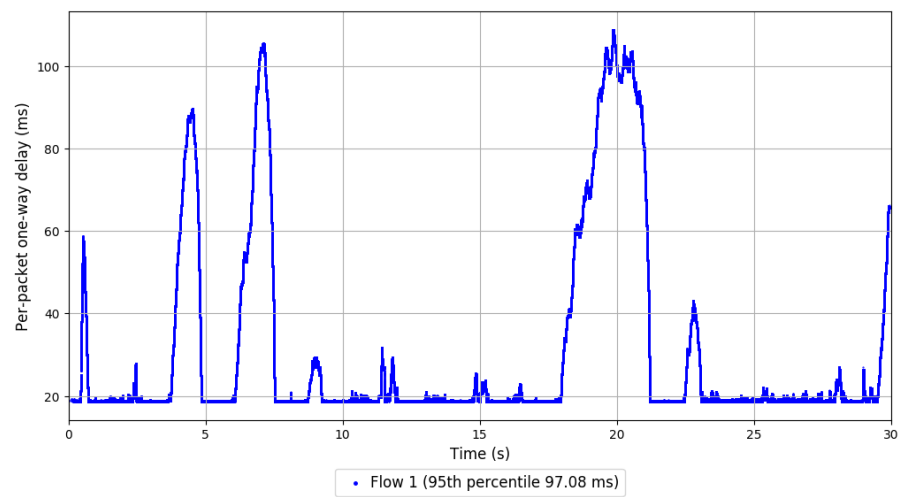
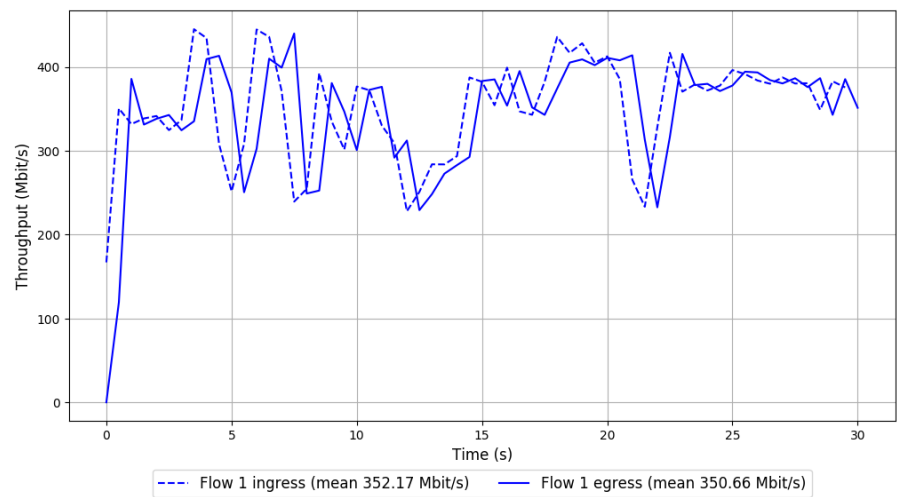
-- Flow 1:

Average throughput: 350.66 Mbit/s

95th percentile per-packet one-way delay: 97.084 ms

Loss rate: 0.43%

Run 10: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

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

End at: 2018-07-24 07:03:21

Local clock offset: 7.632 ms

Remote clock offset: 2.642 ms

Below is generated by plot.py at 2018-07-24 12:34:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.70 Mbit/s

95th percentile per-packet one-way delay: 18.625 ms

Loss rate: 0.00%

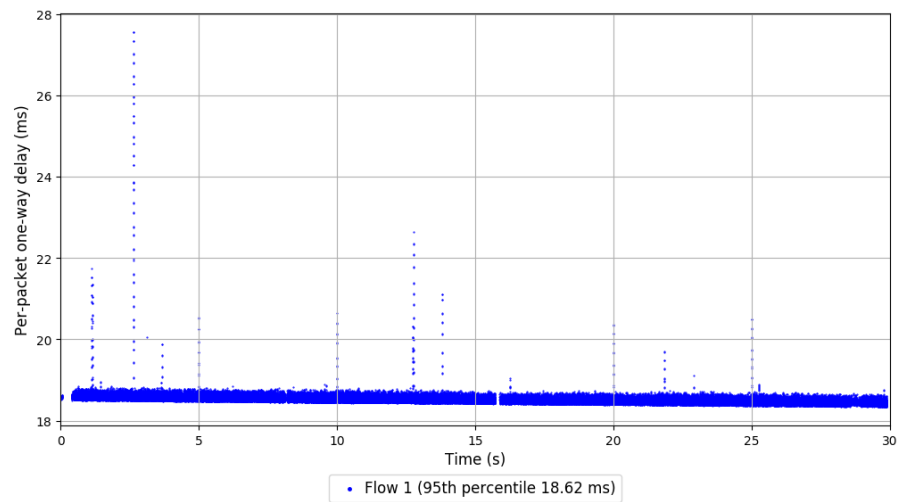
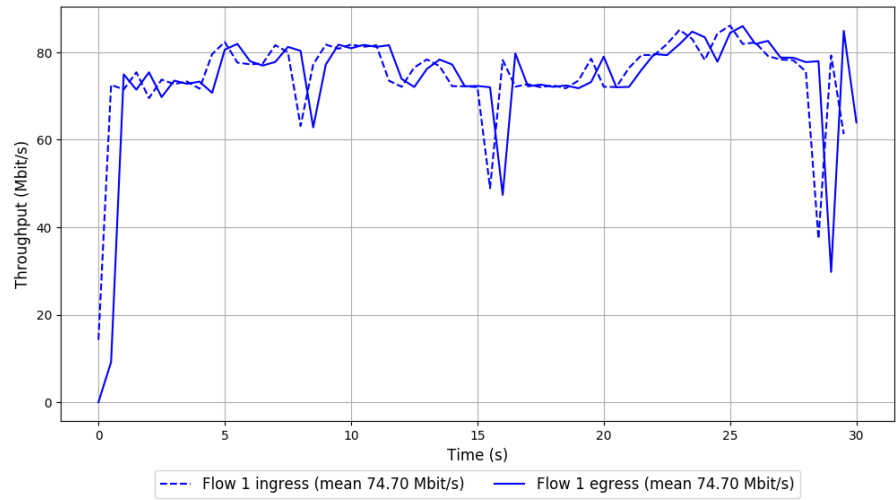
-- Flow 1:

Average throughput: 74.70 Mbit/s

95th percentile per-packet one-way delay: 18.625 ms

Loss rate: 0.00%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

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

End at: 2018-07-24 07:28:58

Local clock offset: 6.019 ms

Remote clock offset: 2.379 ms

Below is generated by plot.py at 2018-07-24 12:34:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.78 Mbit/s

95th percentile per-packet one-way delay: 18.881 ms

Loss rate: 0.00%

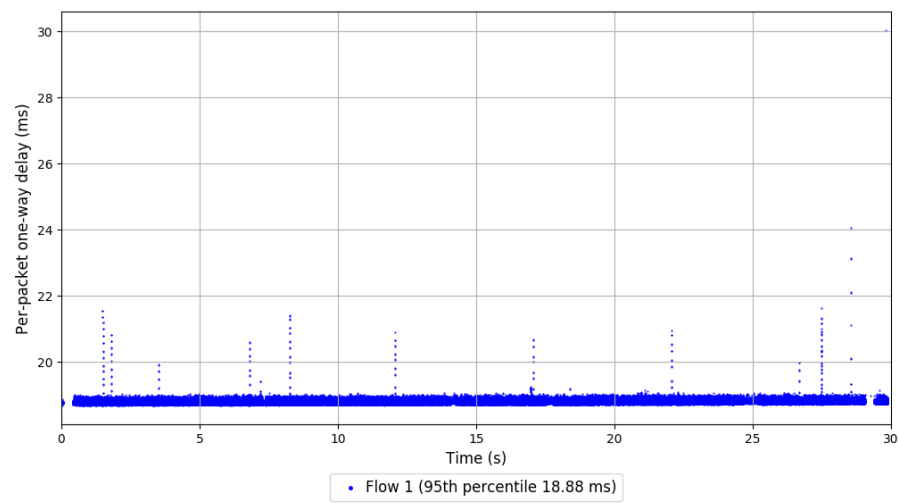
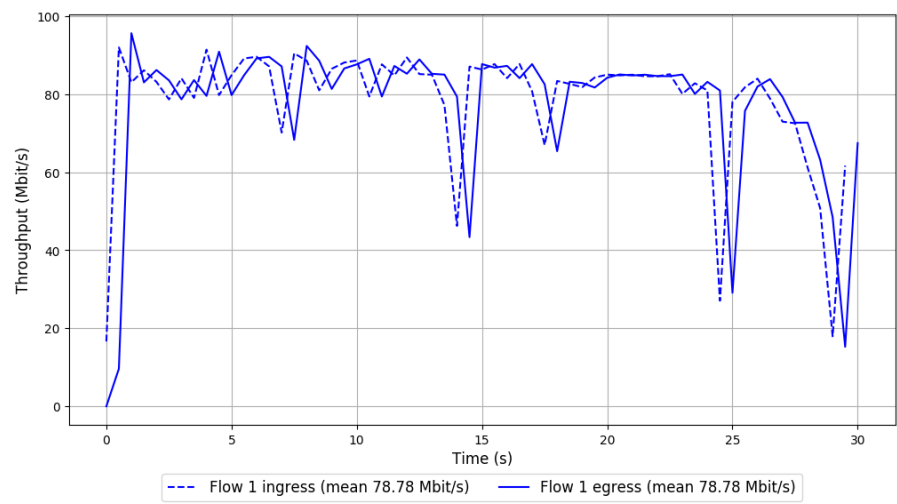
-- Flow 1:

Average throughput: 78.78 Mbit/s

95th percentile per-packet one-way delay: 18.881 ms

Loss rate: 0.00%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-07-24 07:54:11

End at: 2018-07-24 07:54:41

Local clock offset: 4.801 ms

Remote clock offset: 1.832 ms

Below is generated by plot.py at 2018-07-24 12:34:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.97 Mbit/s

95th percentile per-packet one-way delay: 18.993 ms

Loss rate: 0.00%

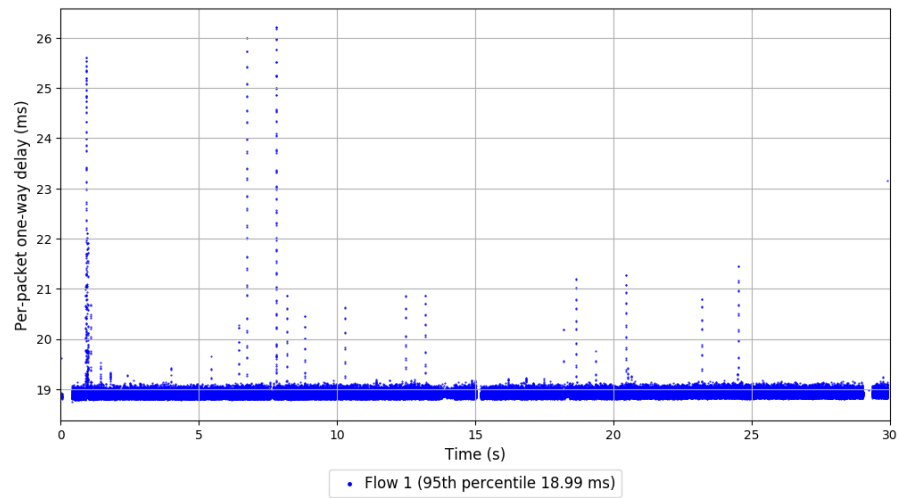
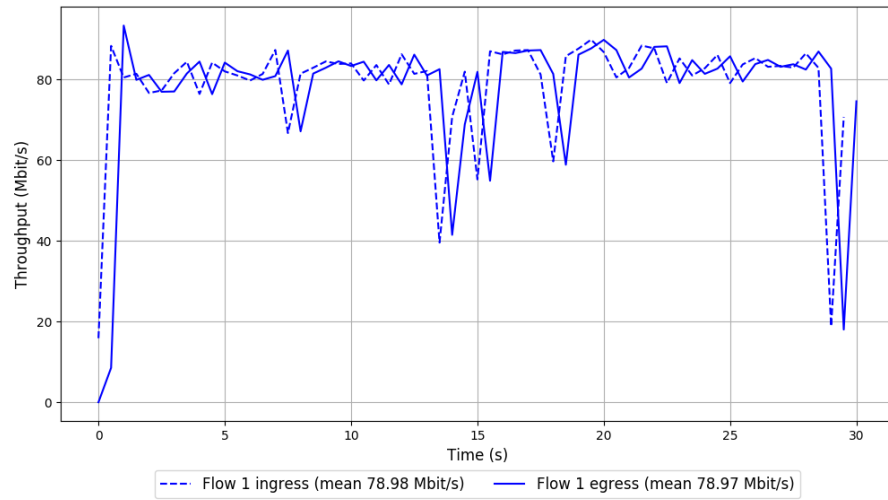
-- Flow 1:

Average throughput: 78.97 Mbit/s

95th percentile per-packet one-way delay: 18.993 ms

Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-07-24 08:19:45

End at: 2018-07-24 08:20:15

Local clock offset: 4.498 ms

Remote clock offset: 1.309 ms

Below is generated by plot.py at 2018-07-24 12:34:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.03 Mbit/s

95th percentile per-packet one-way delay: 18.136 ms

Loss rate: 0.03%

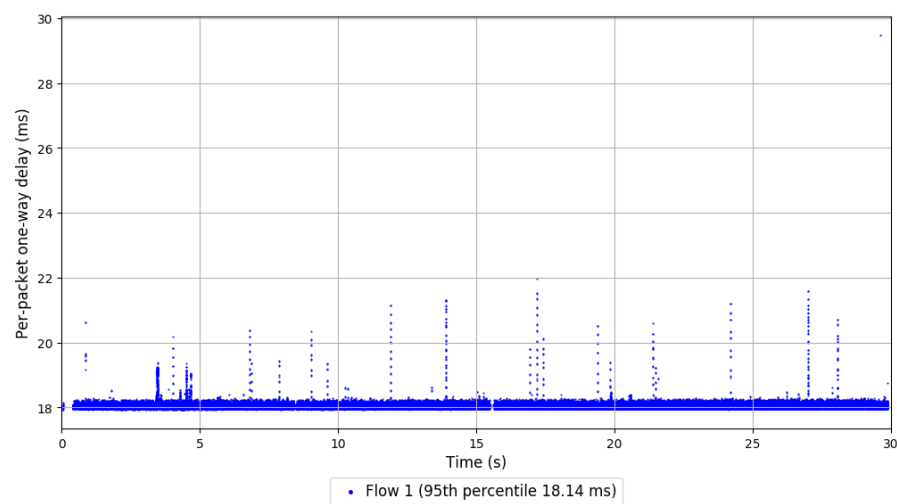
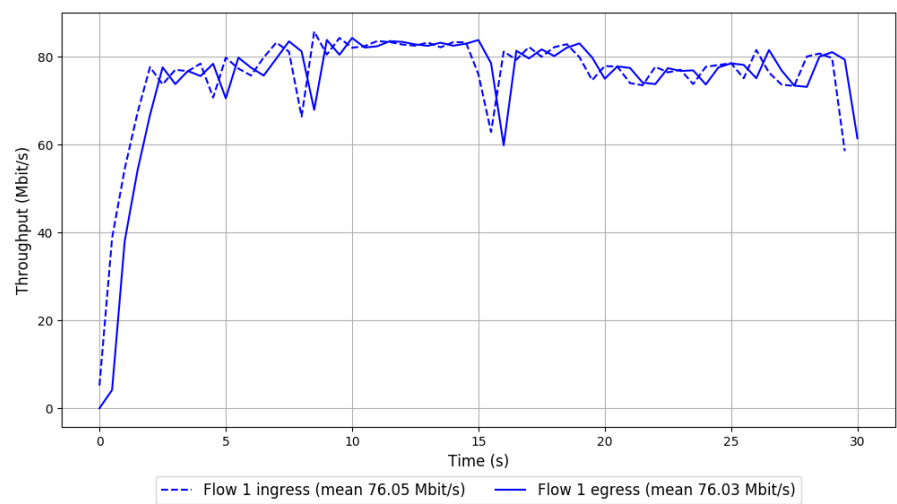
-- Flow 1:

Average throughput: 76.03 Mbit/s

95th percentile per-packet one-way delay: 18.136 ms

Loss rate: 0.03%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

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

End at: 2018-07-24 08:45:55

Local clock offset: 3.575 ms

Remote clock offset: 1.056 ms

Below is generated by plot.py at 2018-07-24 12:34:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.57 Mbit/s

95th percentile per-packet one-way delay: 17.493 ms

Loss rate: 0.02%

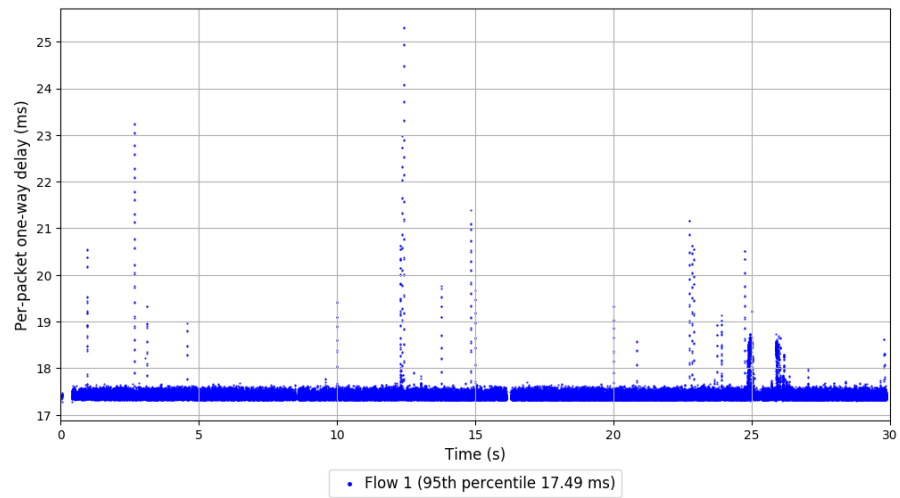
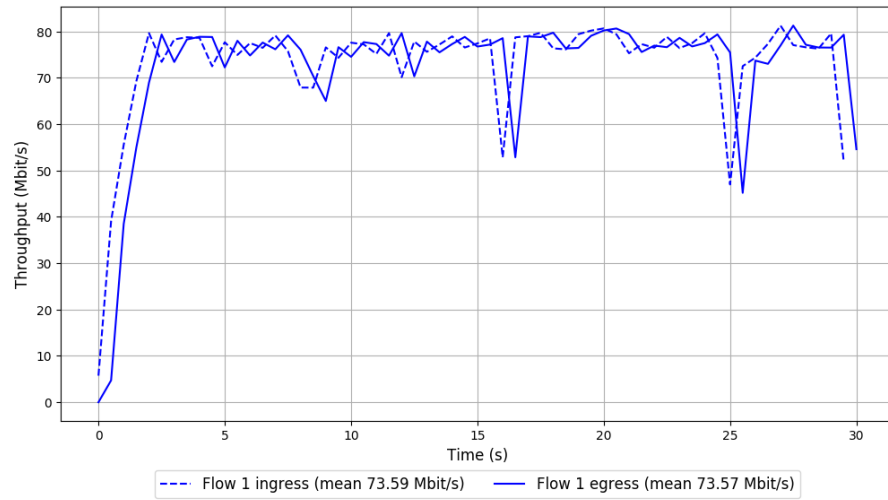
-- Flow 1:

Average throughput: 73.57 Mbit/s

95th percentile per-packet one-way delay: 17.493 ms

Loss rate: 0.02%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-07-24 09:10:46

End at: 2018-07-24 09:11:16

Local clock offset: 3.4 ms

Remote clock offset: 0.835 ms

Below is generated by plot.py at 2018-07-24 12:34:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.31 Mbit/s

95th percentile per-packet one-way delay: 19.015 ms

Loss rate: 0.00%

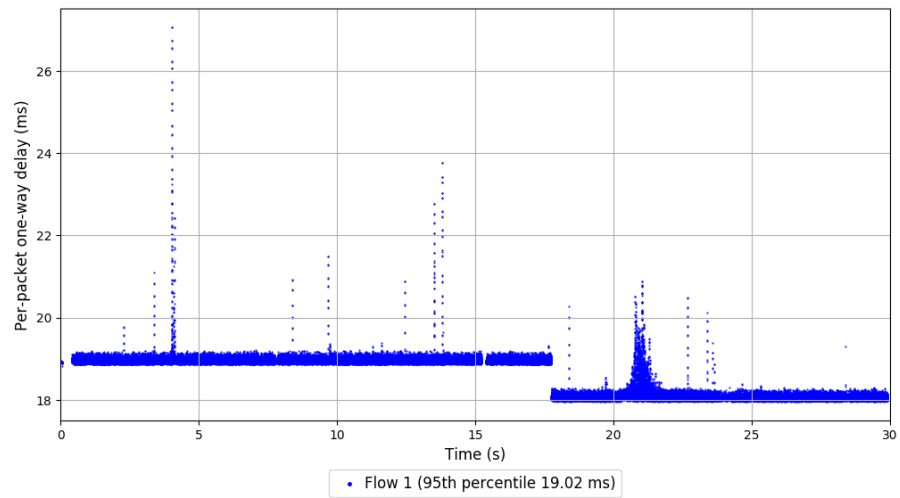
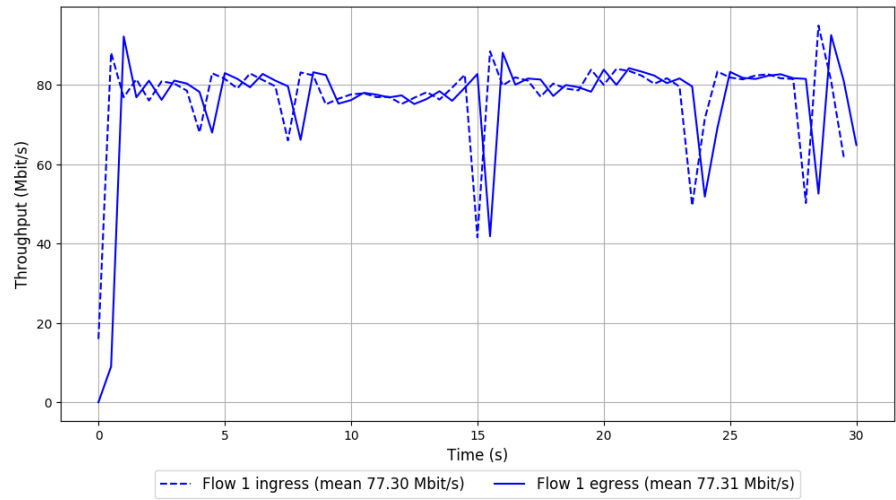
-- Flow 1:

Average throughput: 77.31 Mbit/s

95th percentile per-packet one-way delay: 19.015 ms

Loss rate: 0.00%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-07-24 09:36:30

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

Local clock offset: 3.752 ms

Remote clock offset: 0.667 ms

Below is generated by plot.py at 2018-07-24 12:34:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.26 Mbit/s

95th percentile per-packet one-way delay: 19.106 ms

Loss rate: 0.00%

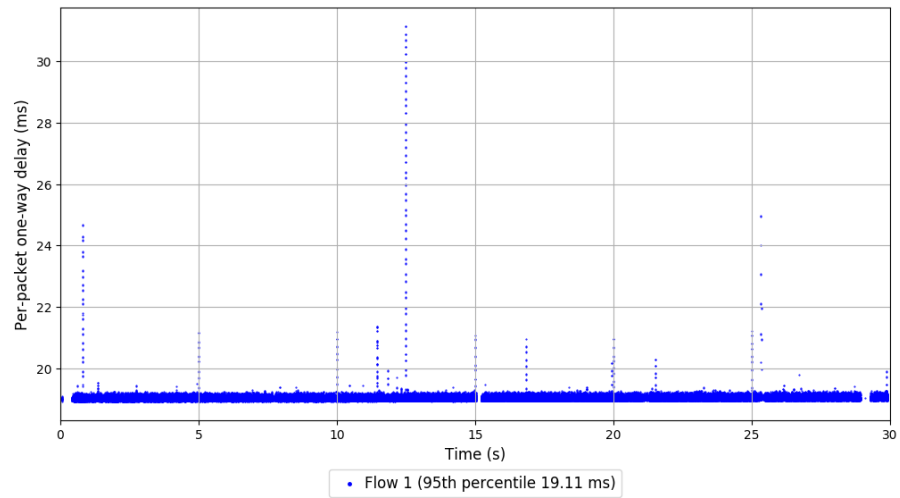
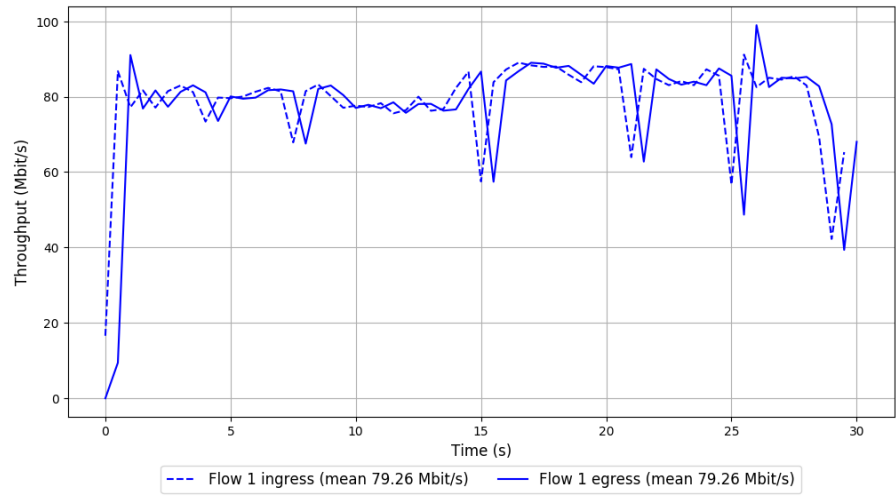
-- Flow 1:

Average throughput: 79.26 Mbit/s

95th percentile per-packet one-way delay: 19.106 ms

Loss rate: 0.00%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-07-24 10:01:54

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

Local clock offset: 4.649 ms

Remote clock offset: 0.724 ms

Below is generated by plot.py at 2018-07-24 12:34:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.66 Mbit/s

95th percentile per-packet one-way delay: 17.423 ms

Loss rate: 0.00%

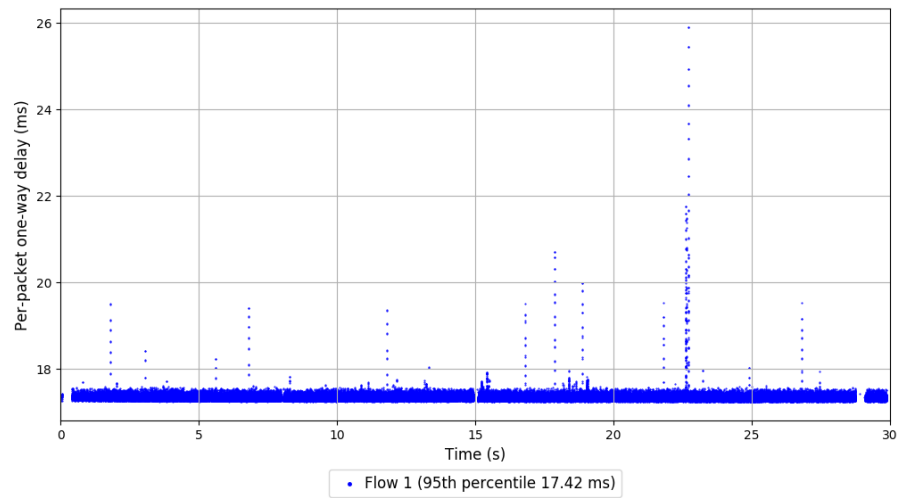
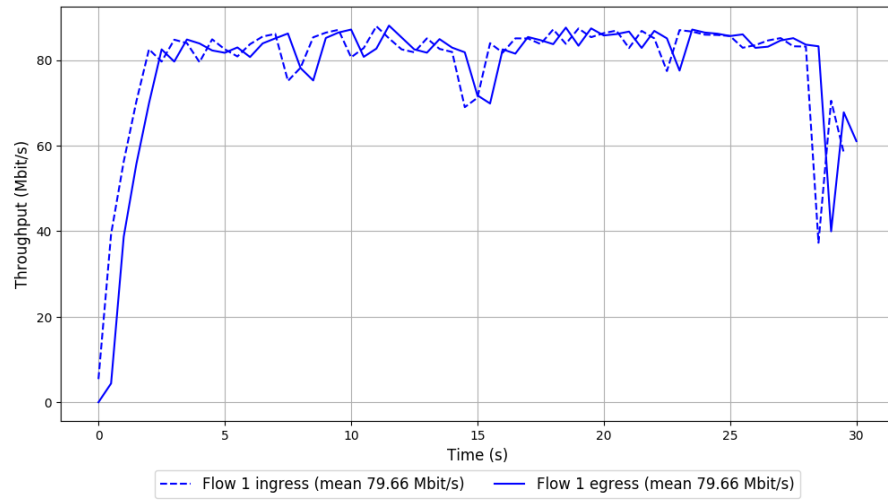
-- Flow 1:

Average throughput: 79.66 Mbit/s

95th percentile per-packet one-way delay: 17.423 ms

Loss rate: 0.00%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-07-24 10:27:40

End at: 2018-07-24 10:28:10

Local clock offset: 4.605 ms

Remote clock offset: 0.588 ms

Below is generated by plot.py at 2018-07-24 12:34:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.89 Mbit/s

95th percentile per-packet one-way delay: 18.835 ms

Loss rate: 0.03%

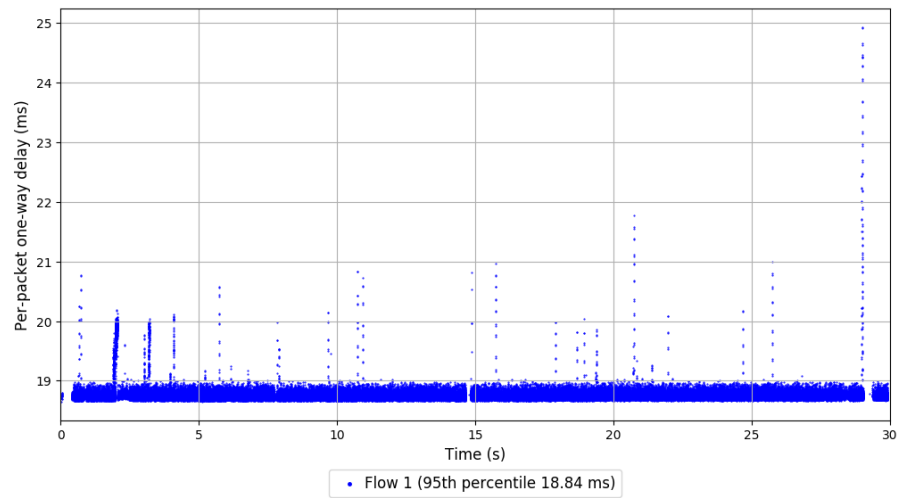
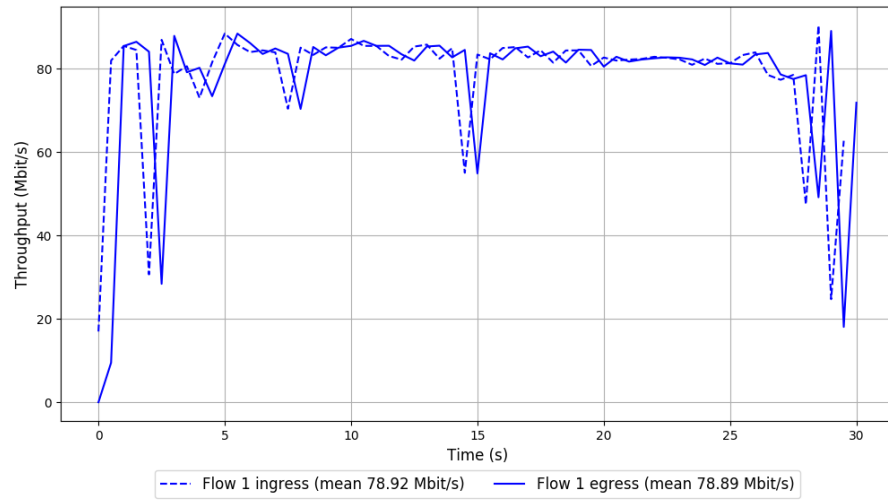
-- Flow 1:

Average throughput: 78.89 Mbit/s

95th percentile per-packet one-way delay: 18.835 ms

Loss rate: 0.03%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-07-24 10:53:27

End at: 2018-07-24 10:53:57

Local clock offset: 4.717 ms

Remote clock offset: 0.609 ms

Below is generated by plot.py at 2018-07-24 12:34:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.57 Mbit/s

95th percentile per-packet one-way delay: 18.171 ms

Loss rate: 0.00%

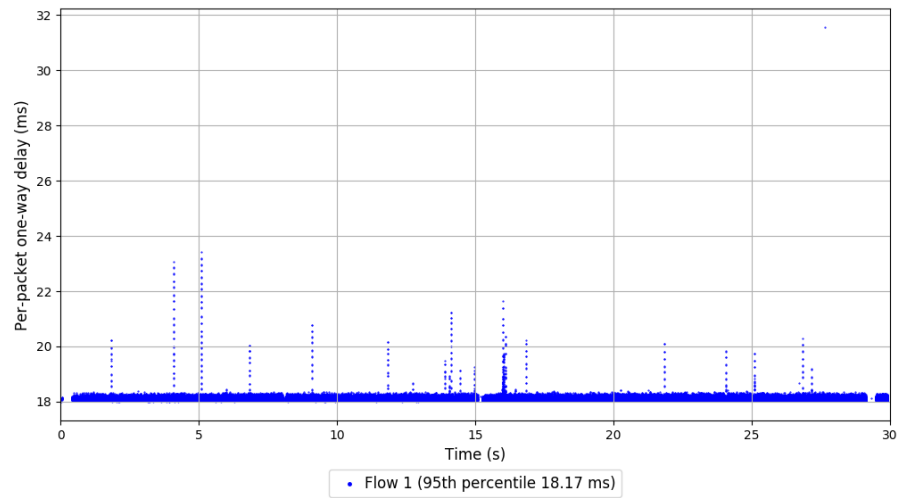
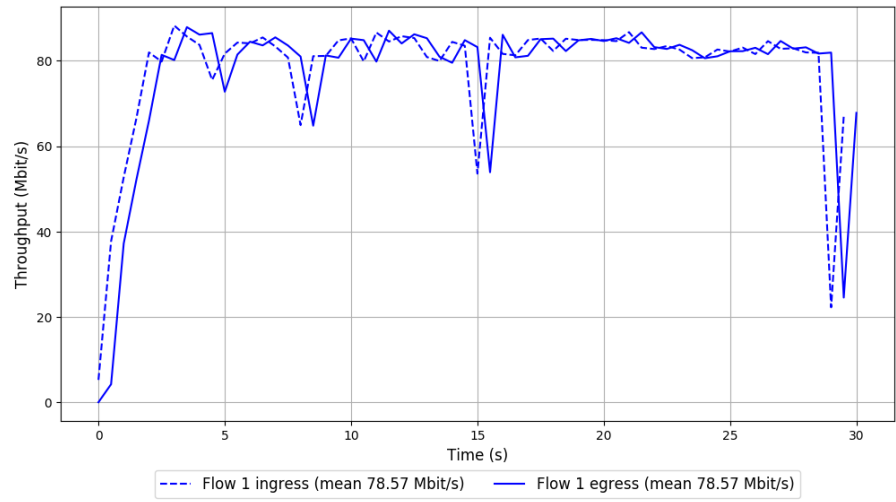
-- Flow 1:

Average throughput: 78.57 Mbit/s

95th percentile per-packet one-way delay: 18.171 ms

Loss rate: 0.00%

Run 10: Report of QUIC Cubic — Data Link

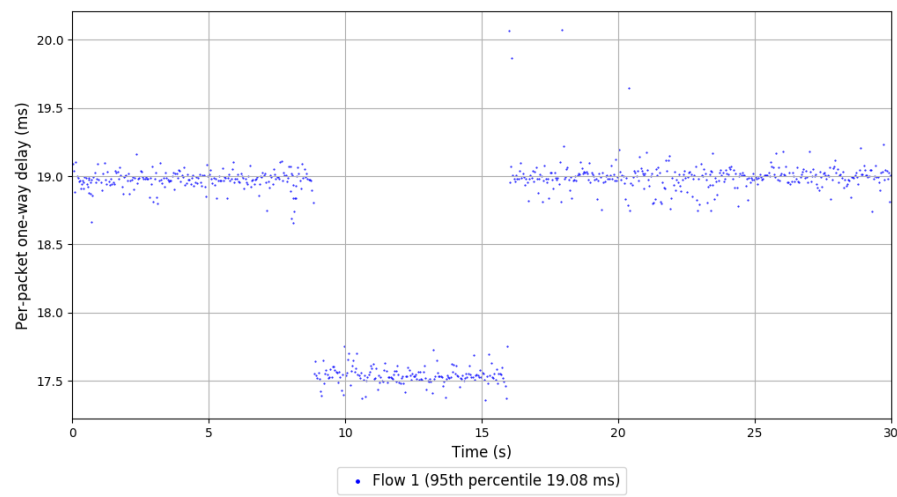
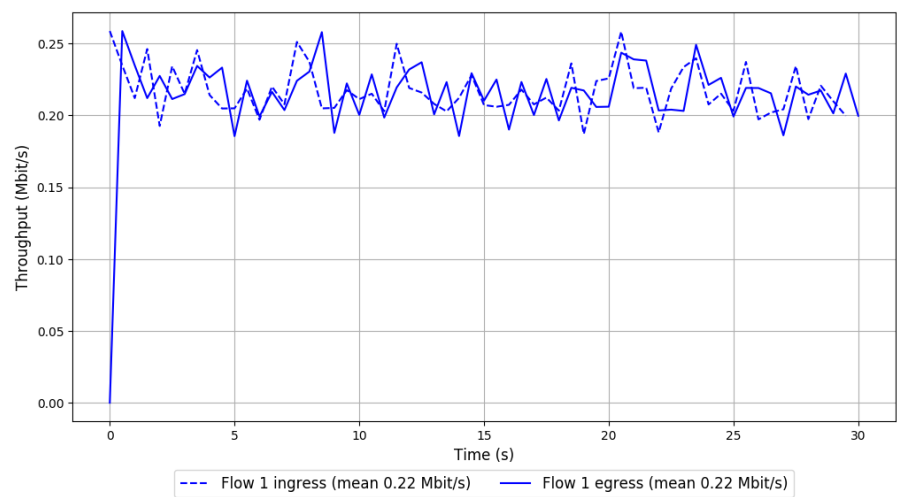


```
Run 1: Statistics of SCReAM

Start at: 2018-07-24 06:55:02
End at: 2018-07-24 06:55:32
Local clock offset: 7.389 ms
Remote clock offset: 2.488 ms

# Below is generated by plot.py at 2018-07-24 12:34:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.076 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.076 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2018-07-24 07:20:47

End at: 2018-07-24 07:21:17

Local clock offset: 5.74 ms

Remote clock offset: 2.499 ms

Below is generated by plot.py at 2018-07-24 12:34:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.14 Mbit/s

95th percentile per-packet one-way delay: 19.144 ms

Loss rate: 0.36%

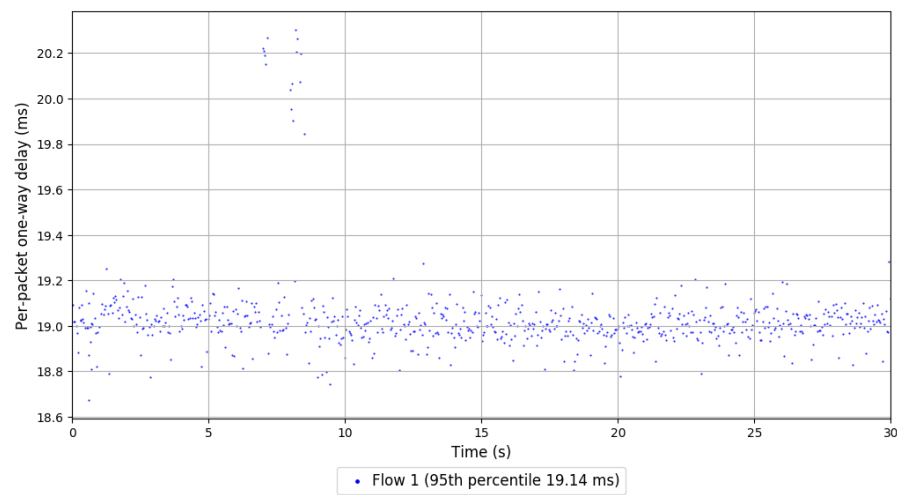
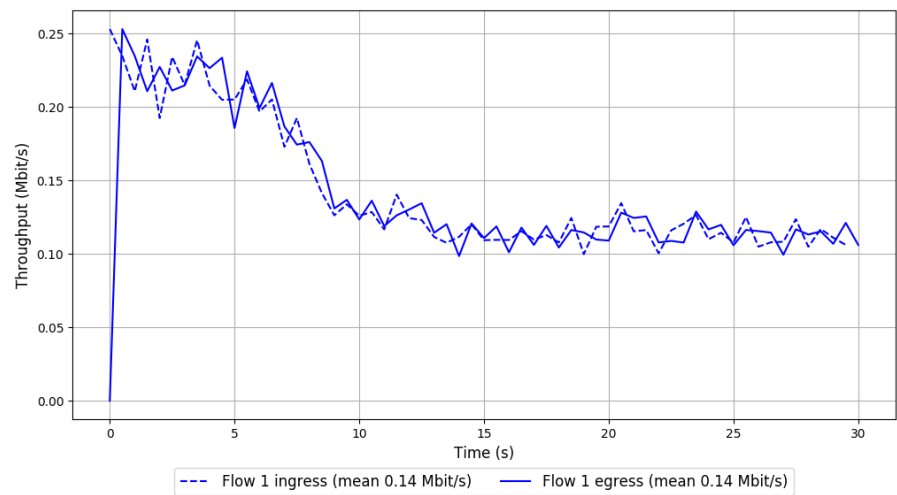
-- Flow 1:

Average throughput: 0.14 Mbit/s

95th percentile per-packet one-way delay: 19.144 ms

Loss rate: 0.36%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

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

End at: 2018-07-24 07:46:55

Local clock offset: 4.714 ms

Remote clock offset: 2.142 ms

Below is generated by plot.py at 2018-07-24 12:34:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.13 Mbit/s

95th percentile per-packet one-way delay: 19.285 ms

Loss rate: 0.23%

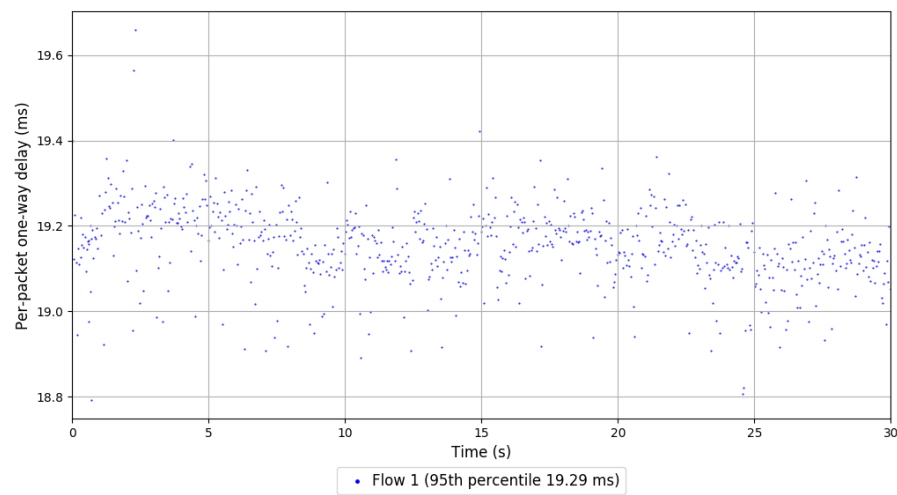
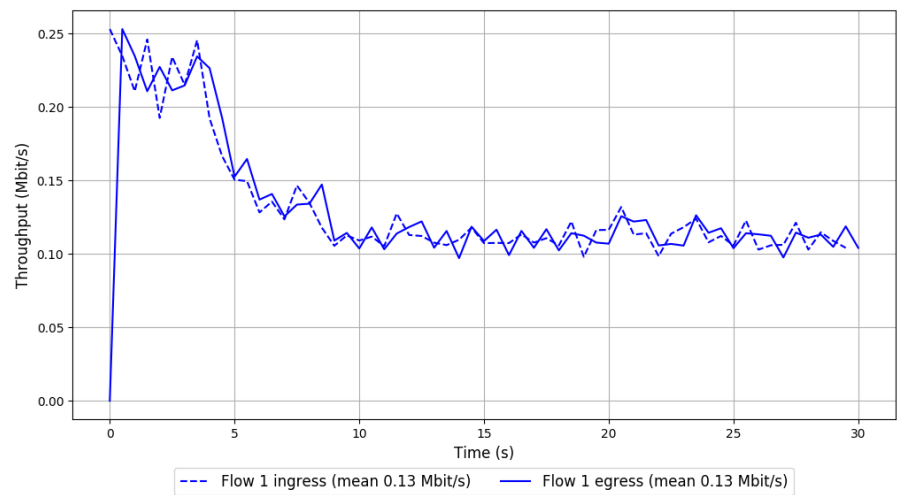
-- Flow 1:

Average throughput: 0.13 Mbit/s

95th percentile per-packet one-way delay: 19.285 ms

Loss rate: 0.23%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2018-07-24 08:11:59

End at: 2018-07-24 08:12:29

Local clock offset: 4.501 ms

Remote clock offset: 1.469 ms

Below is generated by plot.py at 2018-07-24 12:34:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 17.734 ms

Loss rate: 0.00%

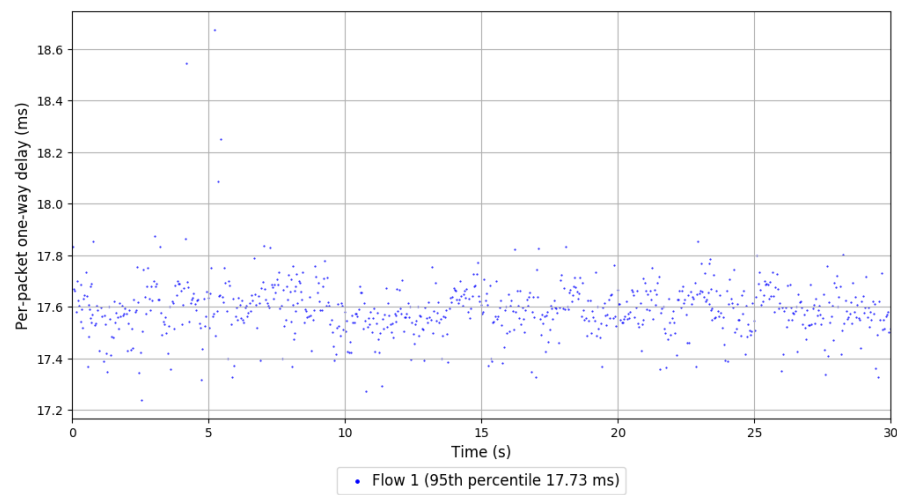
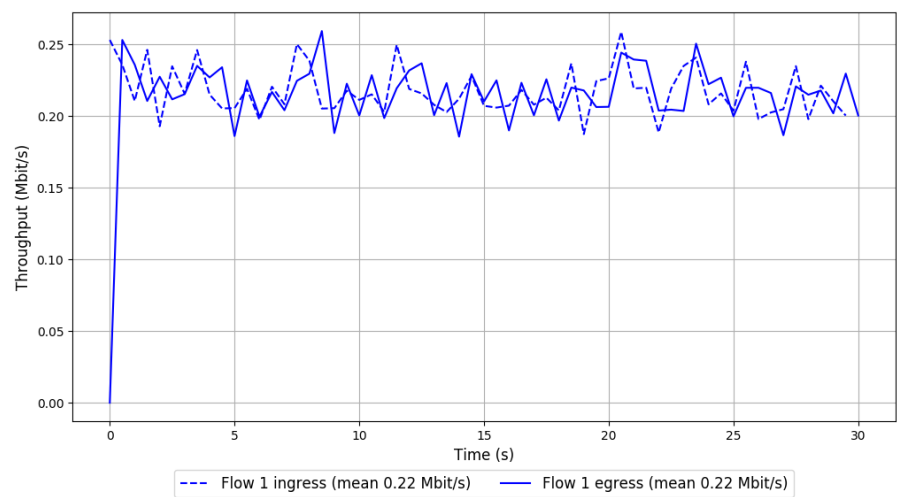
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 17.734 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-07-24 08:37:38

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

Local clock offset: 3.968 ms

Remote clock offset: 1.104 ms

Below is generated by plot.py at 2018-07-24 12:34:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 19.415 ms

Loss rate: 0.26%

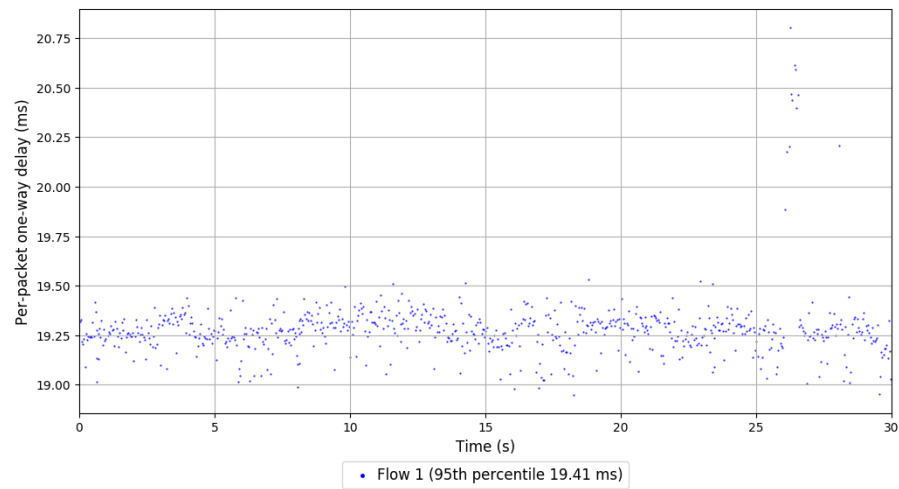
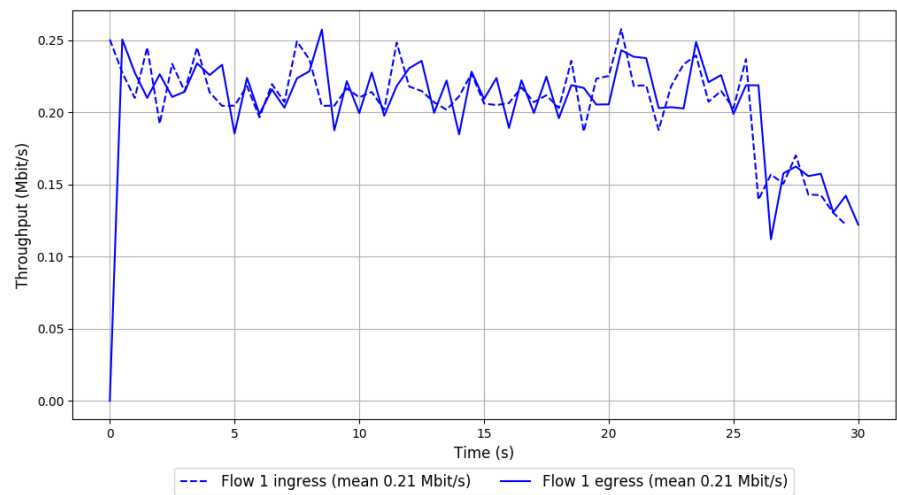
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 19.415 ms

Loss rate: 0.26%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-07-24 09:02:53

End at: 2018-07-24 09:03:23

Local clock offset: 3.372 ms

Remote clock offset: 0.892 ms

Below is generated by plot.py at 2018-07-24 12:34:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 18.471 ms

Loss rate: 0.00%

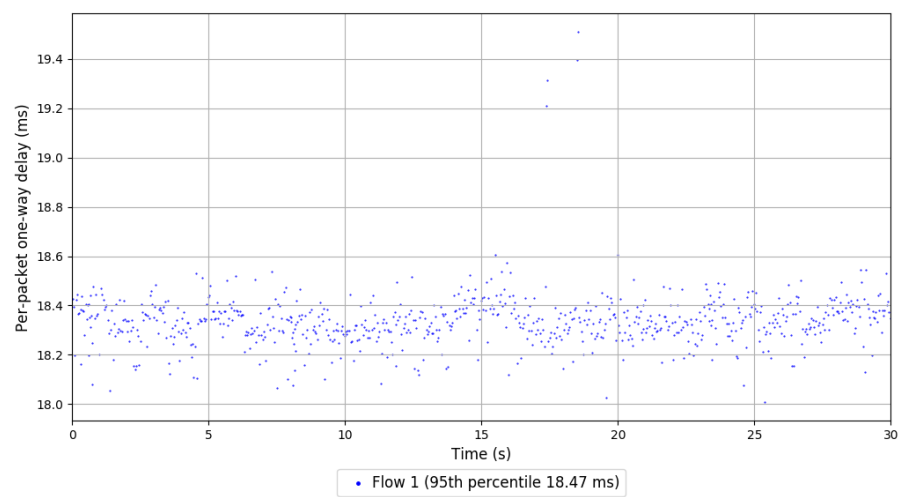
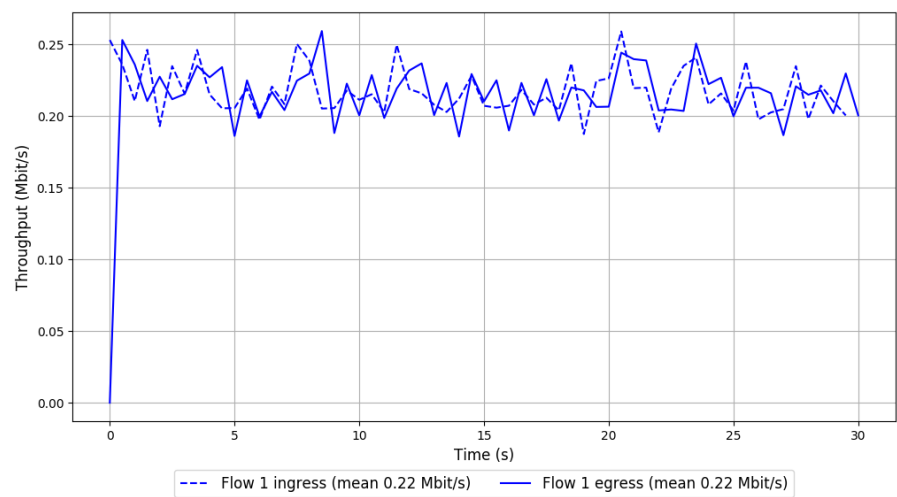
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 18.471 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2018-07-24 09:28:43

End at: 2018-07-24 09:29:13

Local clock offset: 3.468 ms

Remote clock offset: 0.742 ms

Below is generated by plot.py at 2018-07-24 12:34:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 17.742 ms

Loss rate: 0.00%

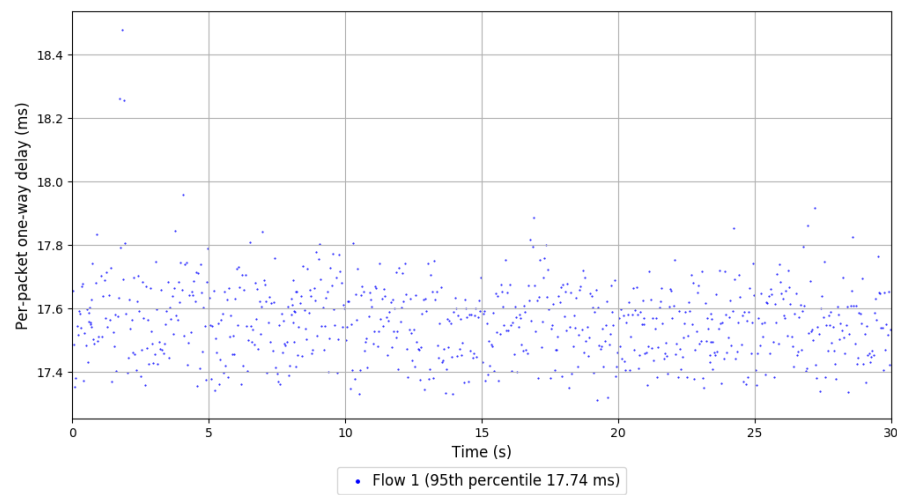
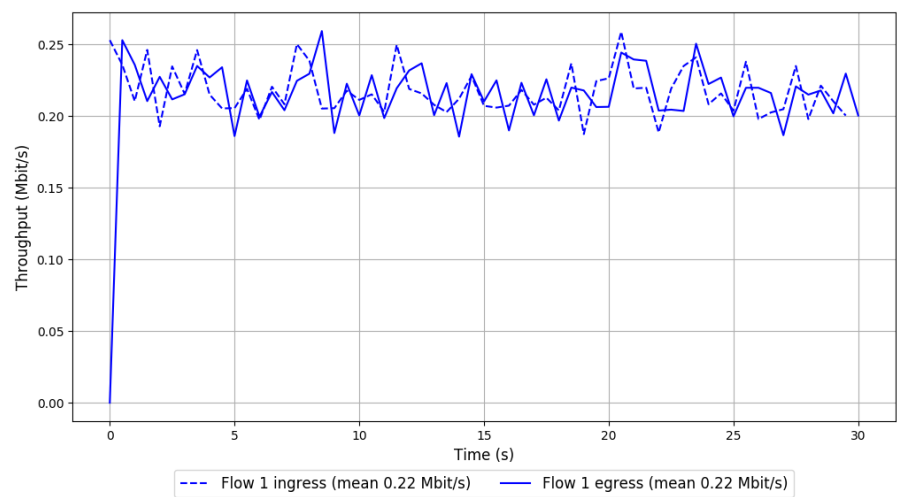
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 17.742 ms

Loss rate: 0.00%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-07-24 09:54:12

End at: 2018-07-24 09:54:42

Local clock offset: 4.427 ms

Remote clock offset: 0.676 ms

Below is generated by plot.py at 2018-07-24 12:34:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 18.561 ms

Loss rate: 0.00%

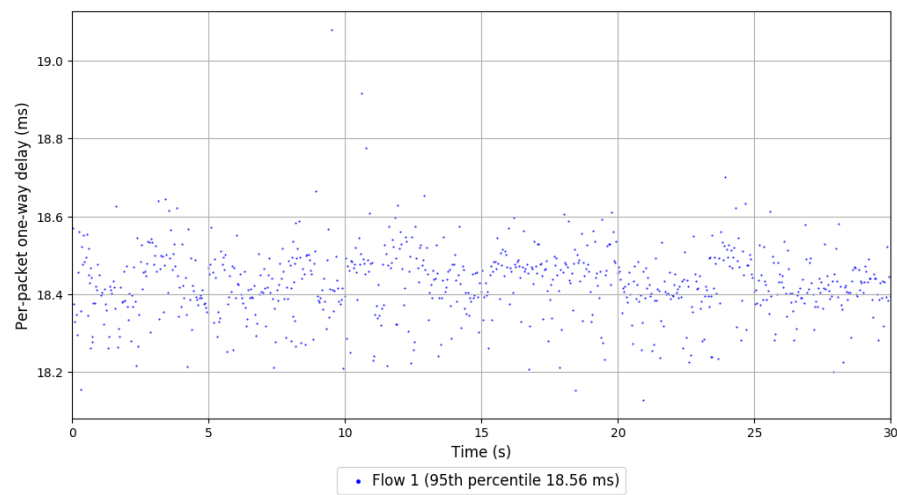
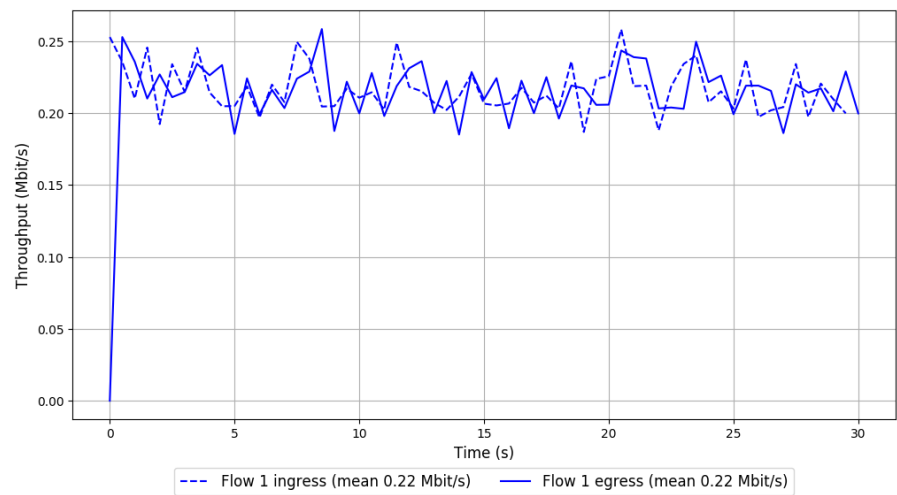
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 18.561 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-07-24 10:19:49

End at: 2018-07-24 10:20:19

Local clock offset: 4.619 ms

Remote clock offset: 0.697 ms

Below is generated by plot.py at 2018-07-24 12:34:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.222 ms

Loss rate: 0.00%

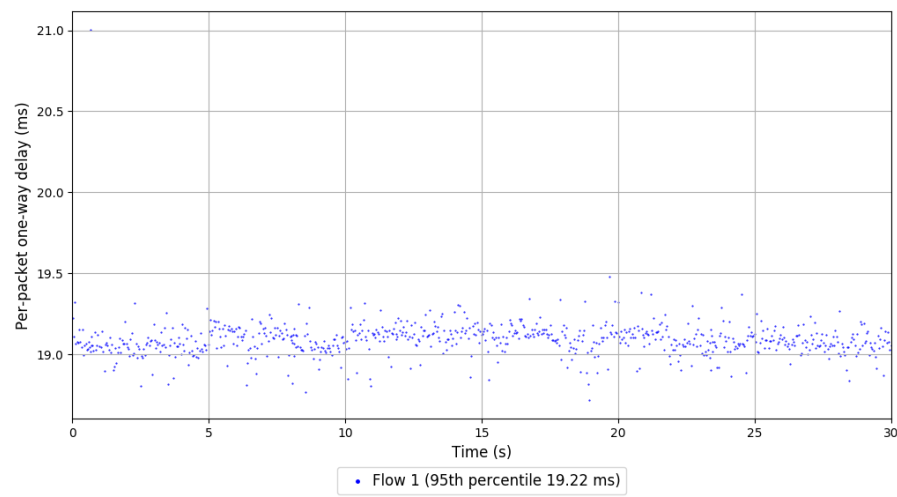
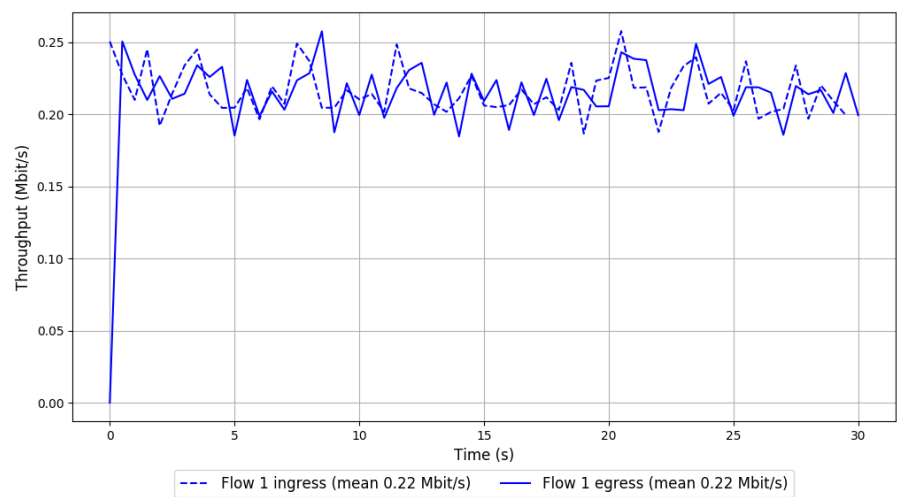
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.222 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SCReAM

Start at: 2018-07-24 10:45:37

End at: 2018-07-24 10:46:07

Local clock offset: 4.67 ms

Remote clock offset: 0.676 ms

Below is generated by plot.py at 2018-07-24 12:34:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.292 ms

Loss rate: 0.00%

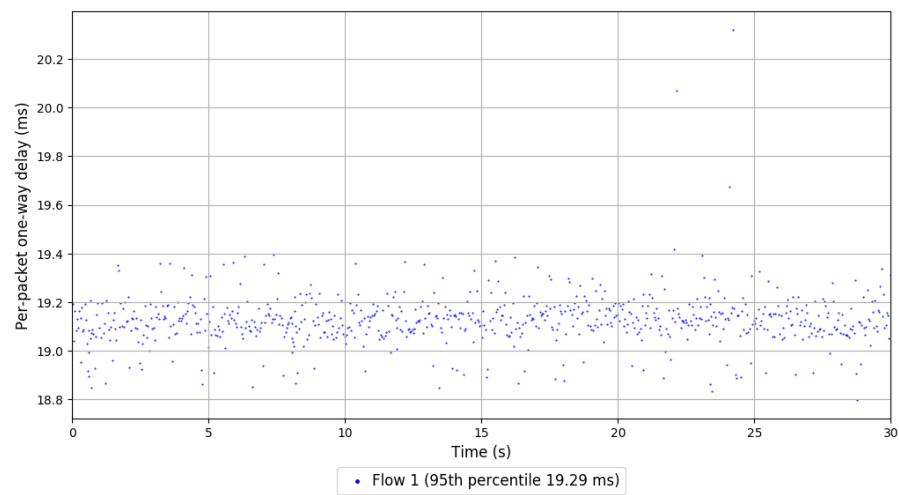
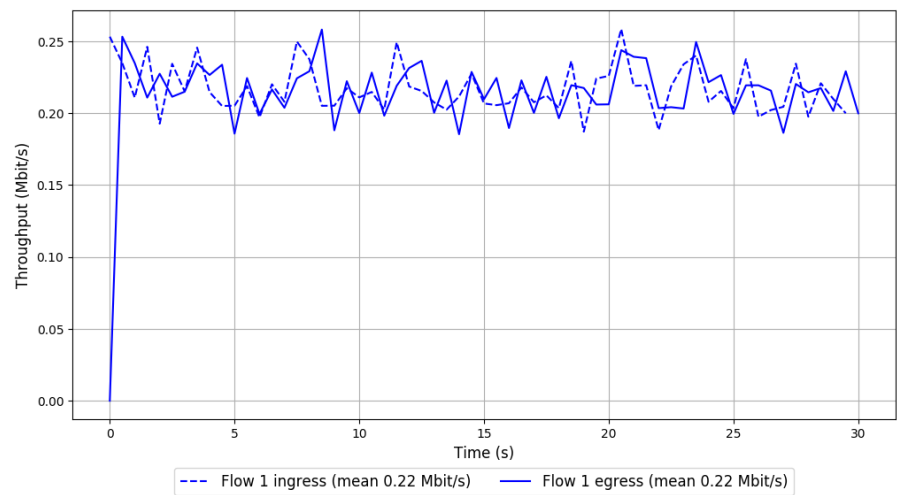
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.292 ms

Loss rate: 0.00%

Run 10: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2018-07-24 06:43:19

End at: 2018-07-24 06:43:49

Local clock offset: 7.099 ms

Remote clock offset: 2.4 ms

Below is generated by plot.py at 2018-07-24 12:34:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 20.01 Mbit/s

95th percentile per-packet one-way delay: 20.900 ms

Loss rate: 0.93%

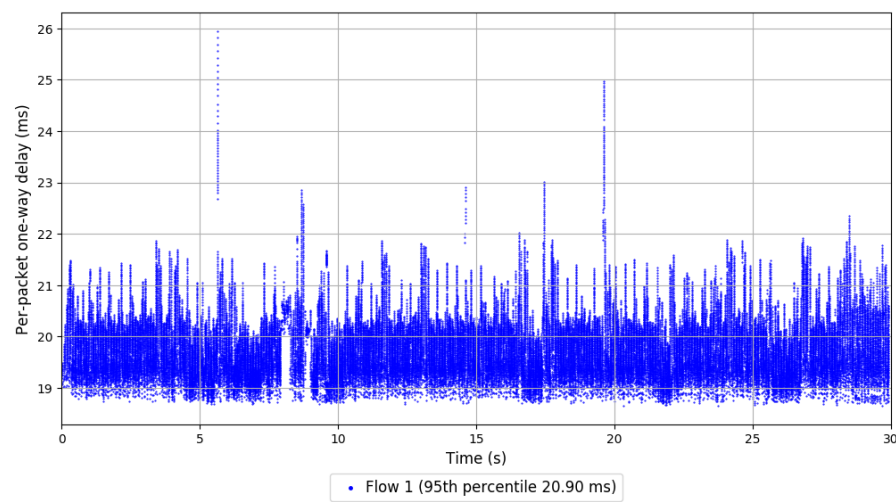
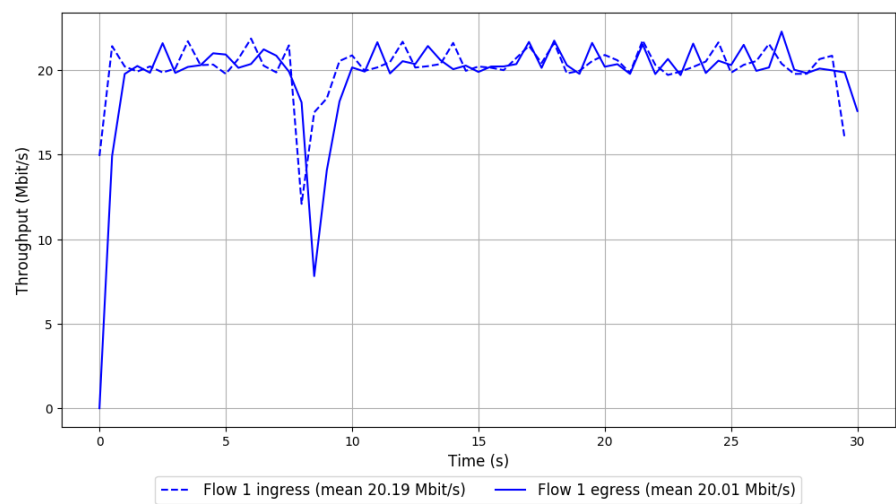
-- Flow 1:

Average throughput: 20.01 Mbit/s

95th percentile per-packet one-way delay: 20.900 ms

Loss rate: 0.93%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

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

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

Local clock offset: 6.254 ms

Remote clock offset: 2.649 ms

Below is generated by plot.py at 2018-07-24 12:34:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 20.82 Mbit/s

95th percentile per-packet one-way delay: 20.092 ms

Loss rate: 0.00%

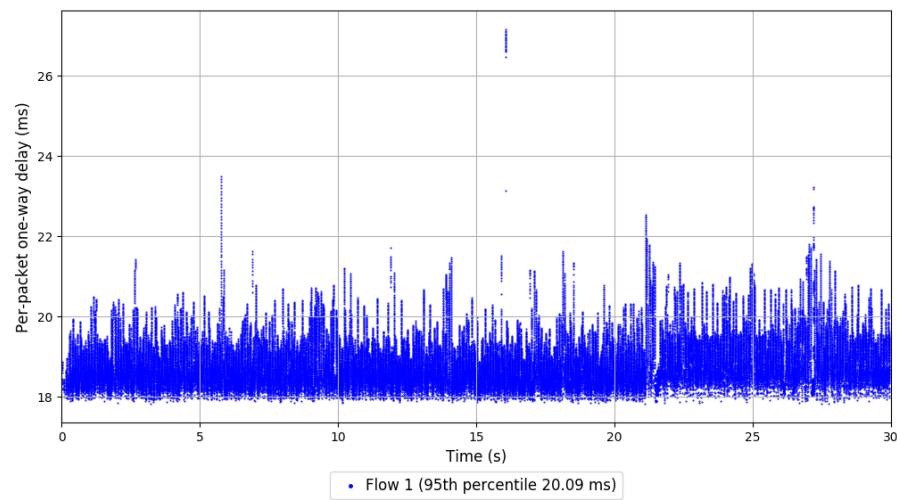
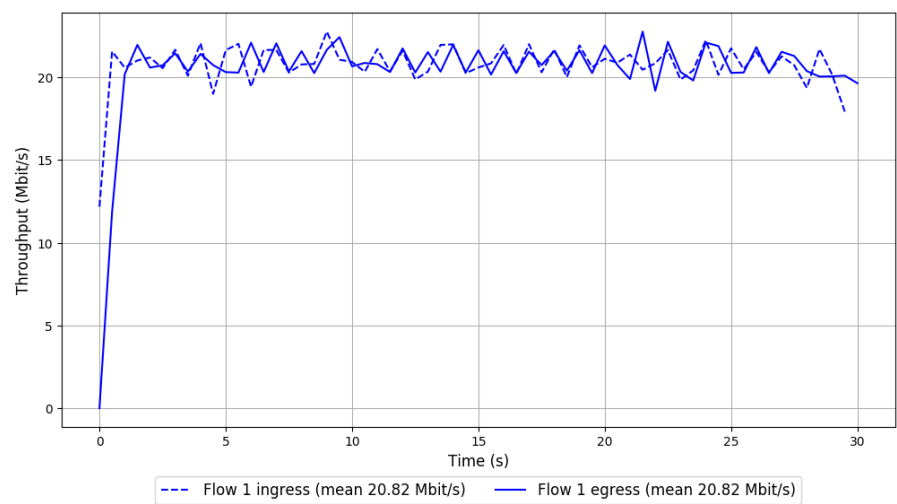
-- Flow 1:

Average throughput: 20.82 Mbit/s

95th percentile per-packet one-way delay: 20.092 ms

Loss rate: 0.00%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

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

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

Local clock offset: 5.71 ms

Remote clock offset: 2.289 ms

Below is generated by plot.py at 2018-07-24 12:34:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 20.59 Mbit/s

95th percentile per-packet one-way delay: 20.209 ms

Loss rate: 0.24%

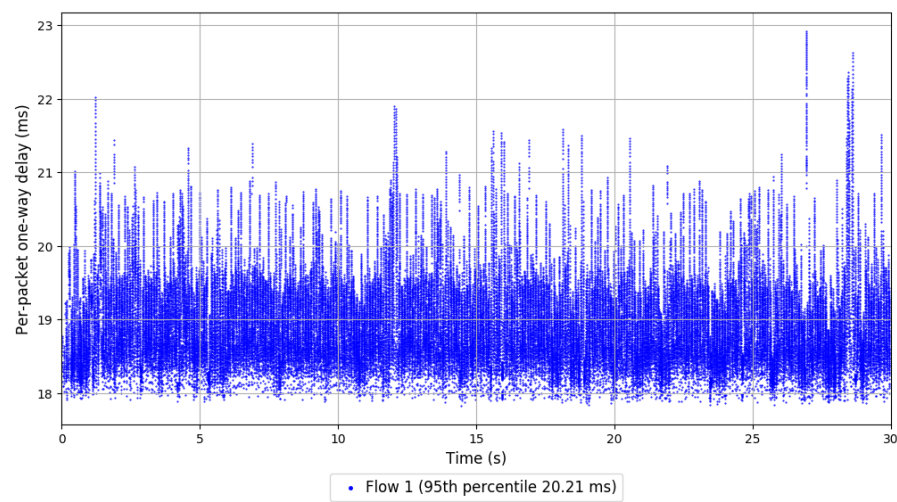
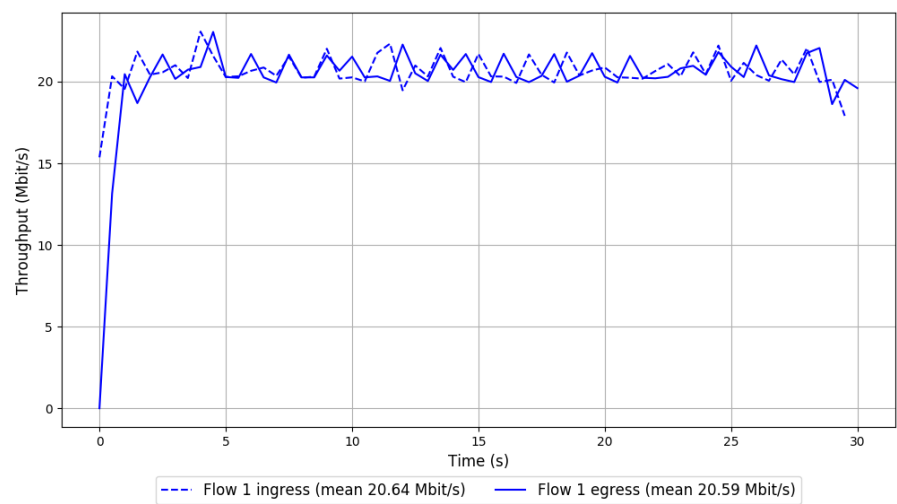
-- Flow 1:

Average throughput: 20.59 Mbit/s

95th percentile per-packet one-way delay: 20.209 ms

Loss rate: 0.24%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-07-24 08:00:22

End at: 2018-07-24 08:00:52

Local clock offset: 4.933 ms

Remote clock offset: 1.729 ms

Below is generated by plot.py at 2018-07-24 12:34:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 21.01 Mbit/s

95th percentile per-packet one-way delay: 19.640 ms

Loss rate: 0.00%

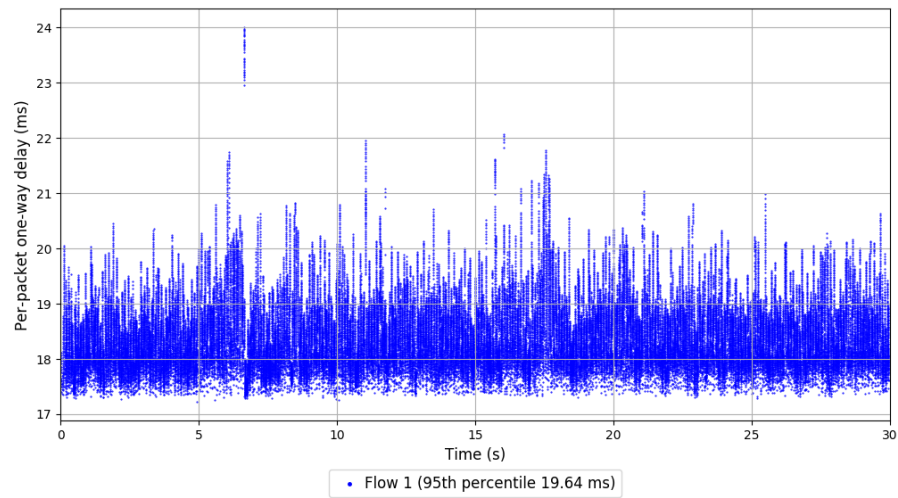
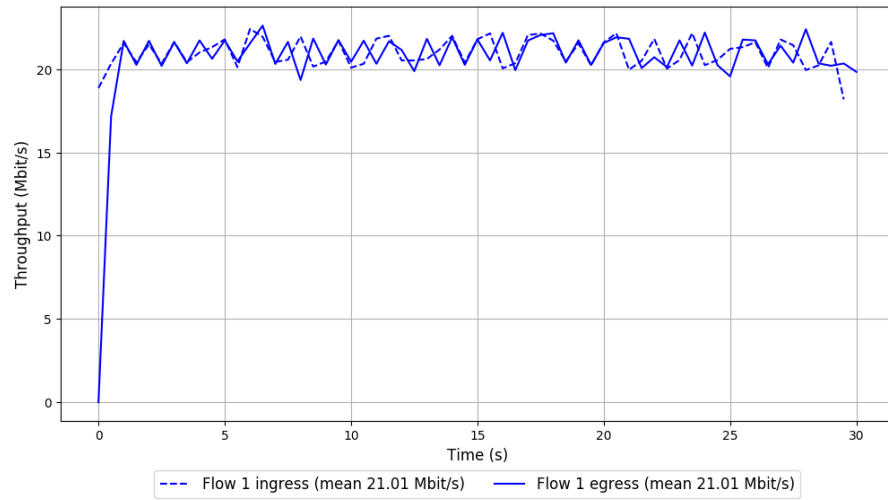
-- Flow 1:

Average throughput: 21.01 Mbit/s

95th percentile per-packet one-way delay: 19.640 ms

Loss rate: 0.00%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-07-24 08:25:59

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

Local clock offset: 4.562 ms

Remote clock offset: 1.202 ms

Below is generated by plot.py at 2018-07-24 12:34:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 20.47 Mbit/s

95th percentile per-packet one-way delay: 21.783 ms

Loss rate: 0.08%

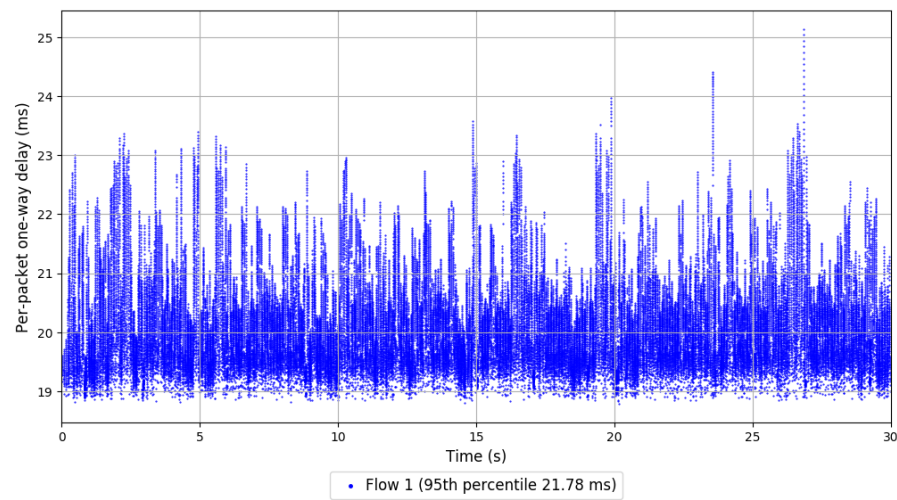
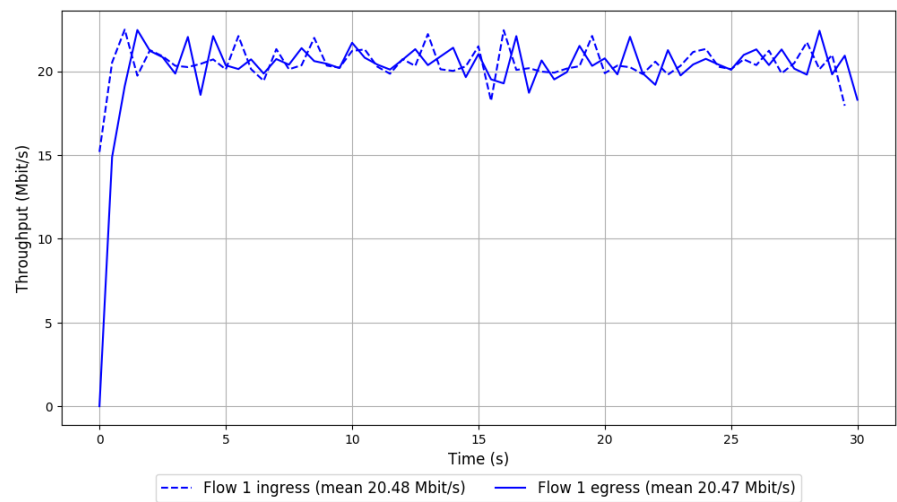
-- Flow 1:

Average throughput: 20.47 Mbit/s

95th percentile per-packet one-way delay: 21.783 ms

Loss rate: 0.08%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-07-24 08:51:10

End at: 2018-07-24 08:51:40

Local clock offset: 3.52 ms

Remote clock offset: 0.877 ms

Below is generated by plot.py at 2018-07-24 12:34:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 20.59 Mbit/s

95th percentile per-packet one-way delay: 21.589 ms

Loss rate: 0.37%

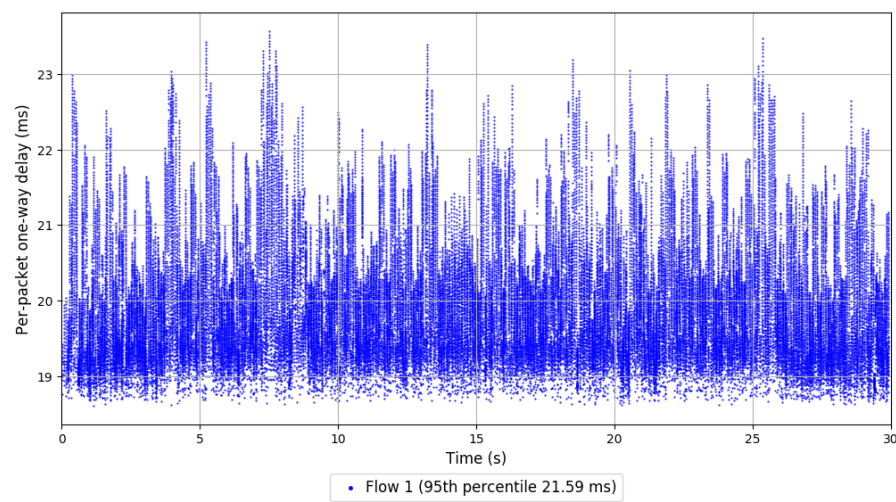
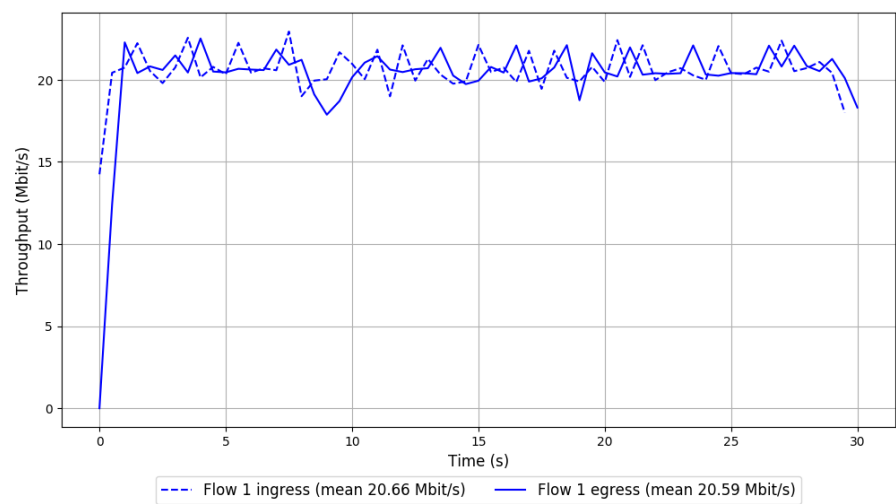
-- Flow 1:

Average throughput: 20.59 Mbit/s

95th percentile per-packet one-way delay: 21.589 ms

Loss rate: 0.37%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-07-24 09:16:54

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

Local clock offset: 3.454 ms

Remote clock offset: 0.821 ms

Below is generated by plot.py at 2018-07-24 12:34:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 20.75 Mbit/s

95th percentile per-packet one-way delay: 20.537 ms

Loss rate: 0.00%

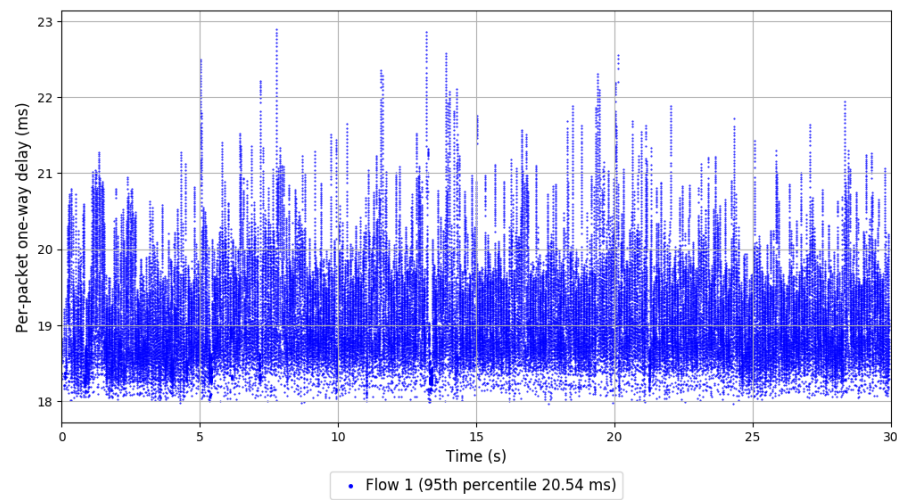
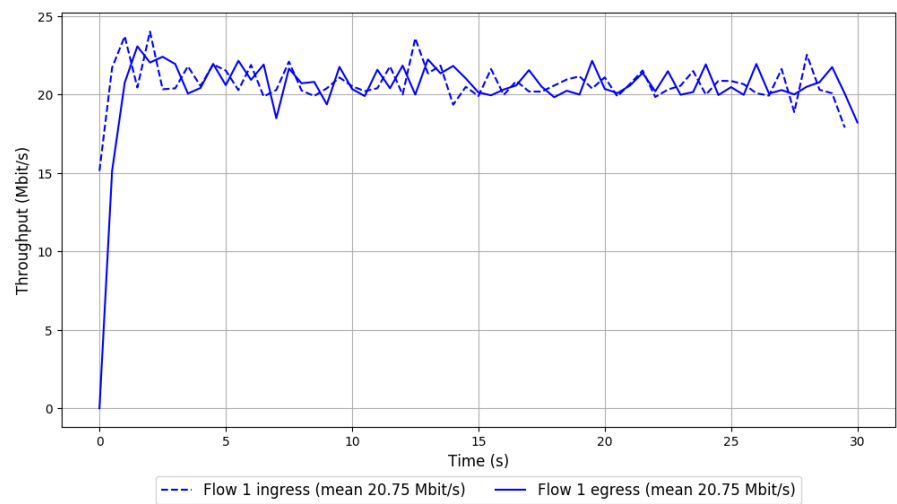
-- Flow 1:

Average throughput: 20.75 Mbit/s

95th percentile per-packet one-way delay: 20.537 ms

Loss rate: 0.00%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

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

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

Local clock offset: 4.173 ms

Remote clock offset: 0.752 ms

Below is generated by plot.py at 2018-07-24 12:34:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 20.72 Mbit/s

95th percentile per-packet one-way delay: 20.348 ms

Loss rate: 0.26%

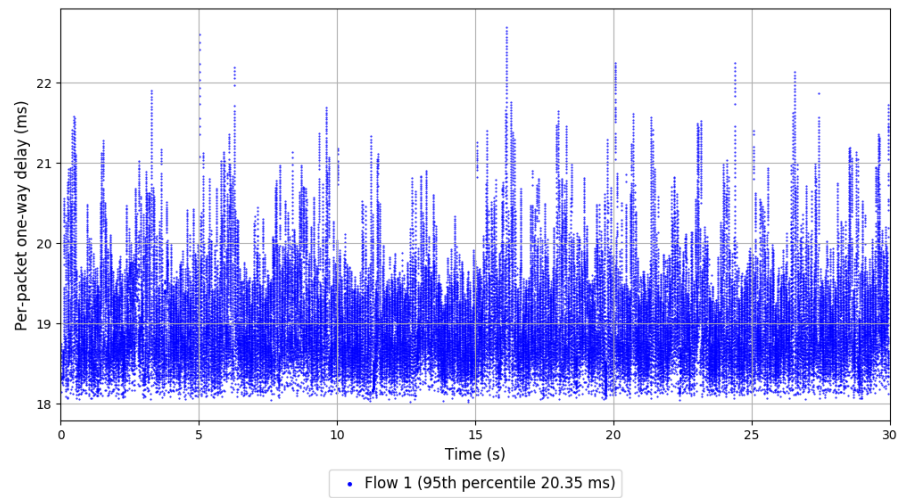
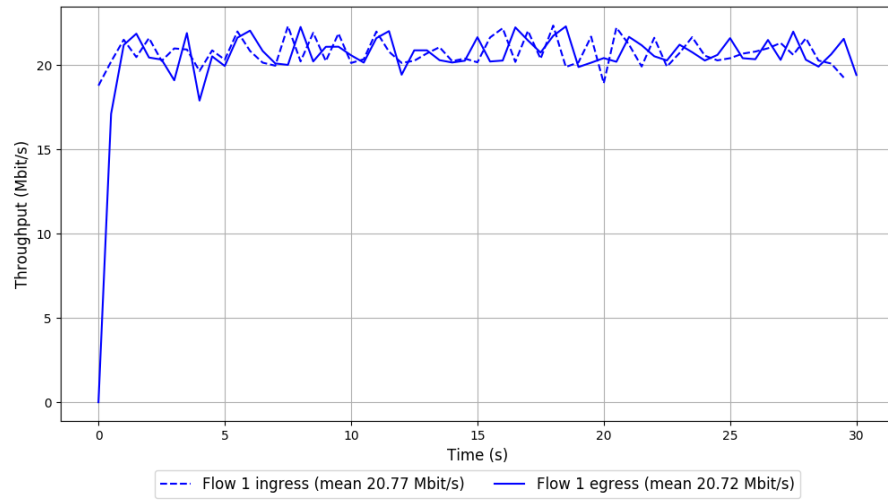
-- Flow 1:

Average throughput: 20.72 Mbit/s

95th percentile per-packet one-way delay: 20.348 ms

Loss rate: 0.26%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-07-24 10:08:05

End at: 2018-07-24 10:08:35

Local clock offset: 4.569 ms

Remote clock offset: 0.723 ms

Below is generated by plot.py at 2018-07-24 12:34:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 20.15 Mbit/s

95th percentile per-packet one-way delay: 21.414 ms

Loss rate: 0.27%

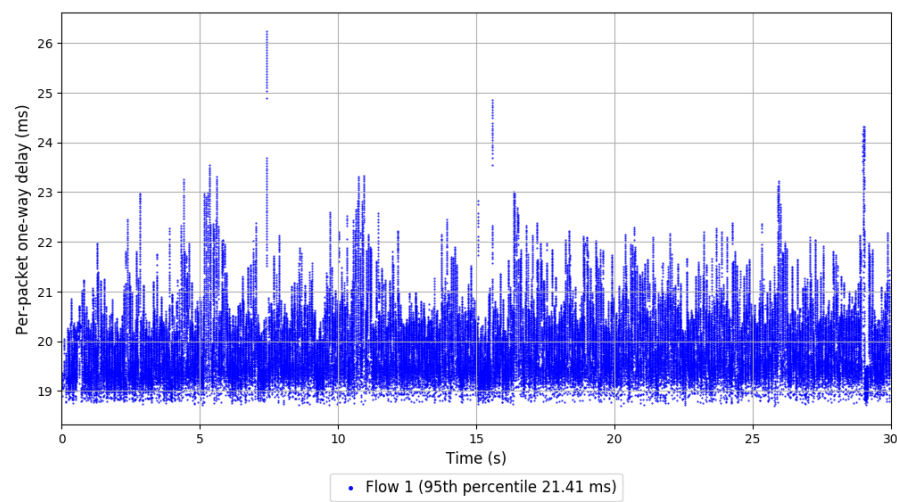
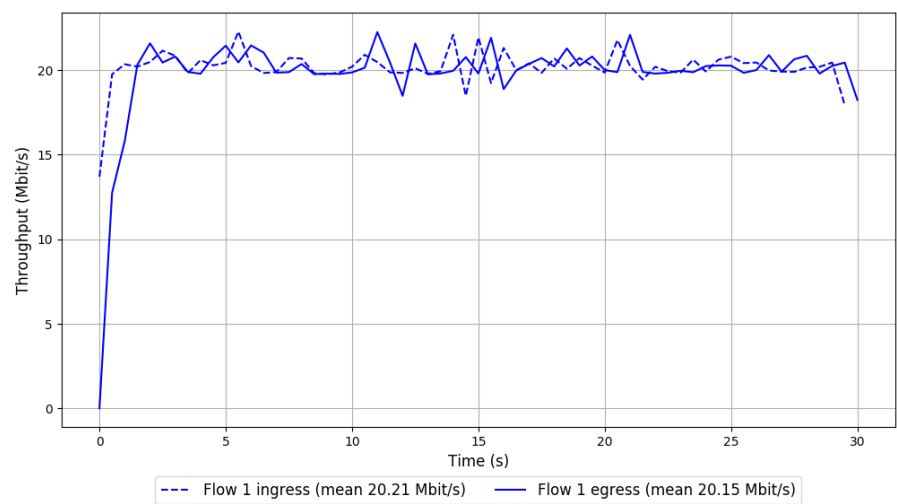
-- Flow 1:

Average throughput: 20.15 Mbit/s

95th percentile per-packet one-way delay: 21.414 ms

Loss rate: 0.27%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-07-24 10:33:51

End at: 2018-07-24 10:34:21

Local clock offset: 4.64 ms

Remote clock offset: 0.679 ms

Below is generated by plot.py at 2018-07-24 12:34:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 20.33 Mbit/s

95th percentile per-packet one-way delay: 21.573 ms

Loss rate: 0.30%

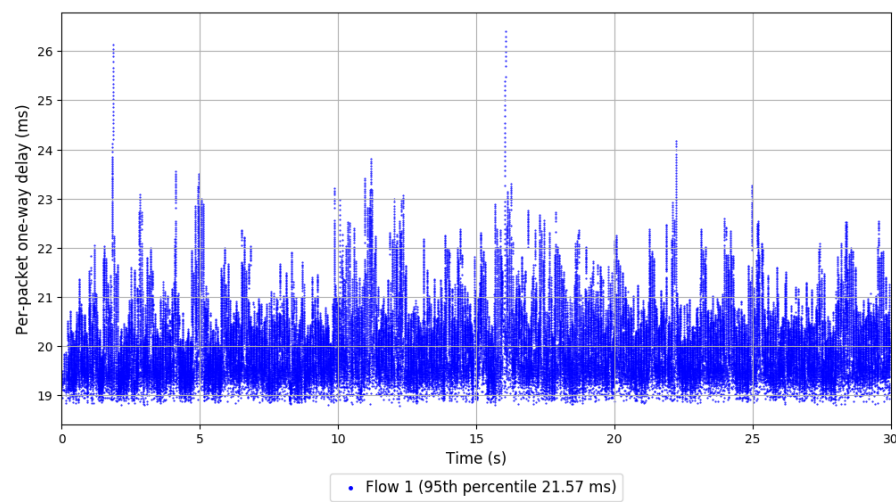
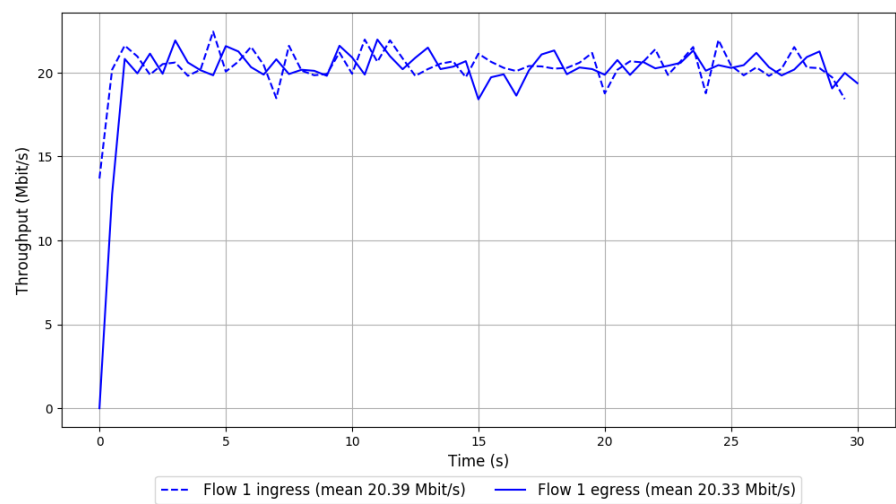
-- Flow 1:

Average throughput: 20.33 Mbit/s

95th percentile per-packet one-way delay: 21.573 ms

Loss rate: 0.30%

Run 10: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

Start at: 2018-07-24 07:01:18

End at: 2018-07-24 07:01:48

Local clock offset: 7.942 ms

Remote clock offset: 2.662 ms

Below is generated by plot.py at 2018-07-24 12:35:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 248.96 Mbit/s

95th percentile per-packet one-way delay: 18.972 ms

Loss rate: 0.03%

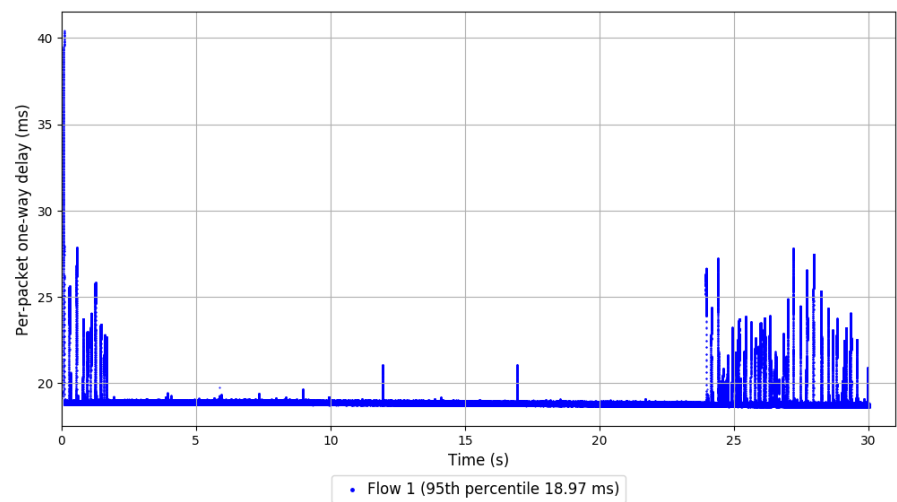
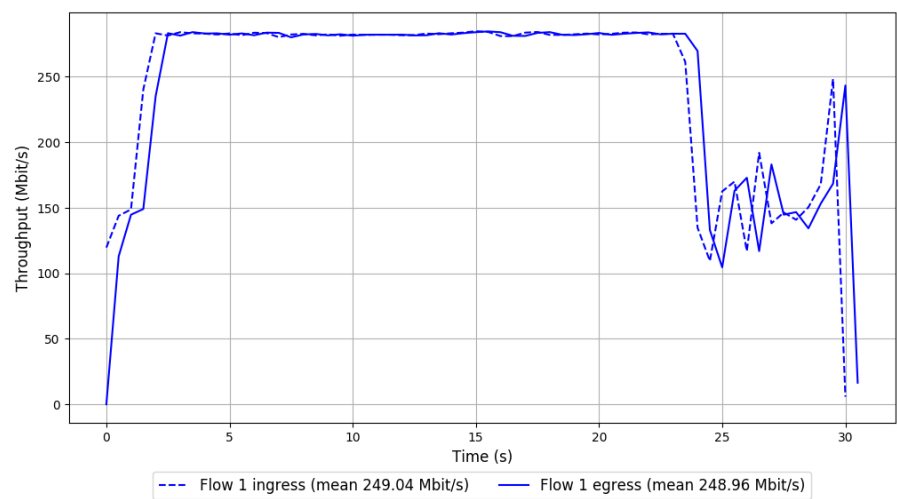
-- Flow 1:

Average throughput: 248.96 Mbit/s

95th percentile per-packet one-way delay: 18.972 ms

Loss rate: 0.03%

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



Run 2: Statistics of TaoVA-100x

Start at: 2018-07-24 07:26:59

End at: 2018-07-24 07:27:30

Local clock offset: 5.955 ms

Remote clock offset: 2.335 ms

Below is generated by plot.py at 2018-07-24 12:35:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 169.82 Mbit/s

95th percentile per-packet one-way delay: 18.859 ms

Loss rate: 0.03%

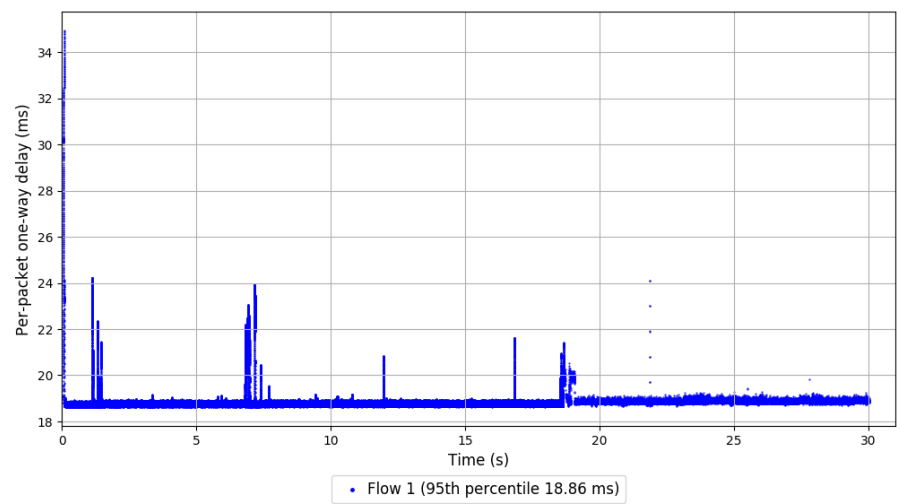
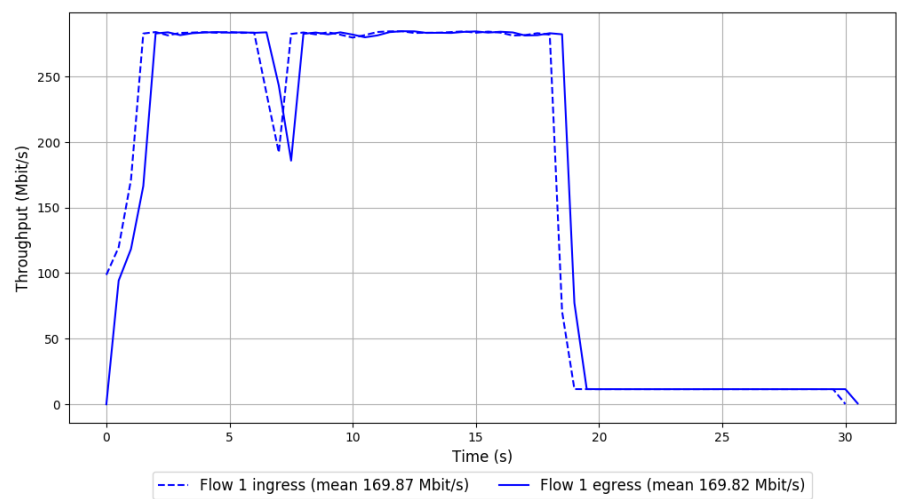
-- Flow 1:

Average throughput: 169.82 Mbit/s

95th percentile per-packet one-way delay: 18.859 ms

Loss rate: 0.03%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-07-24 07:52:38

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

Local clock offset: 4.715 ms

Remote clock offset: 1.87 ms

Below is generated by plot.py at 2018-07-24 12:36:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 264.55 Mbit/s

95th percentile per-packet one-way delay: 19.068 ms

Loss rate: 0.06%

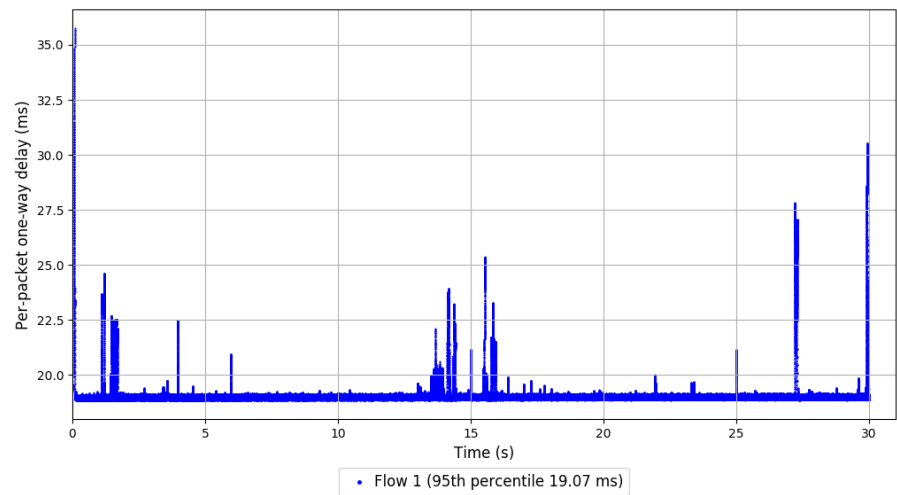
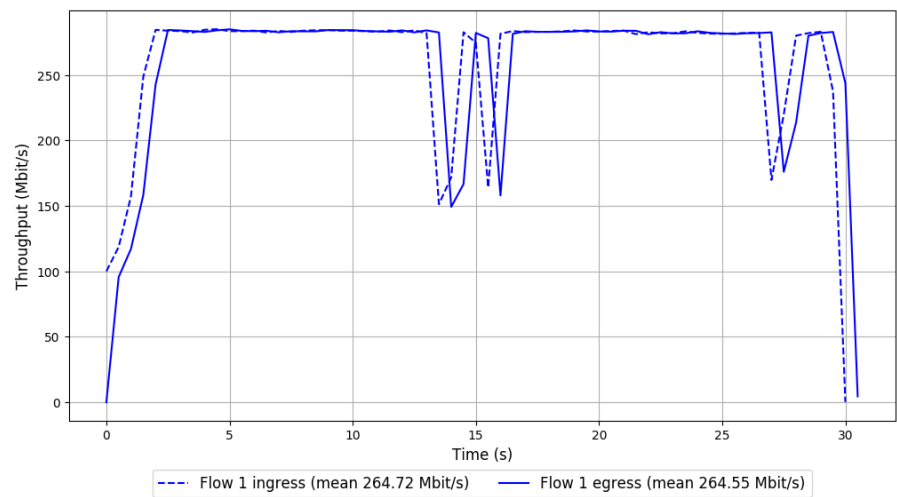
-- Flow 1:

Average throughput: 264.55 Mbit/s

95th percentile per-packet one-way delay: 19.068 ms

Loss rate: 0.06%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-07-24 08:18:13

End at: 2018-07-24 08:18:43

Local clock offset: 4.487 ms

Remote clock offset: 1.337 ms

Below is generated by plot.py at 2018-07-24 12:36:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 260.10 Mbit/s

95th percentile per-packet one-way delay: 18.862 ms

Loss rate: 0.00%

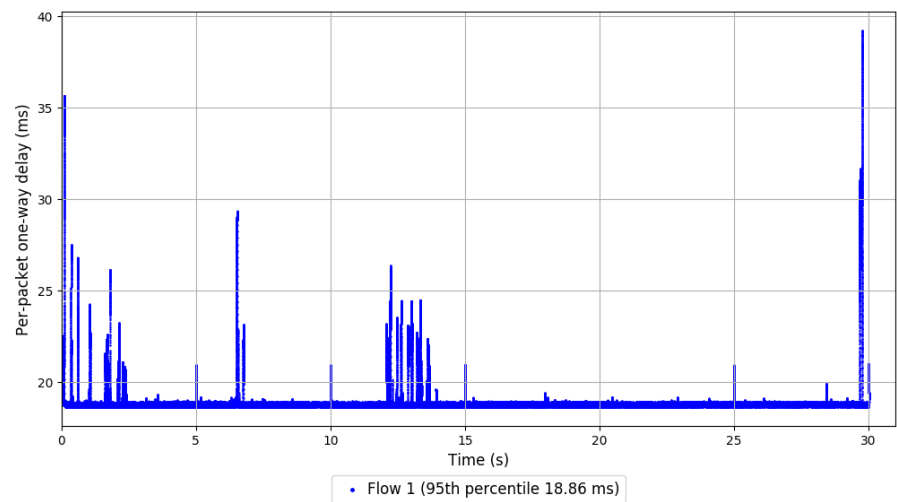
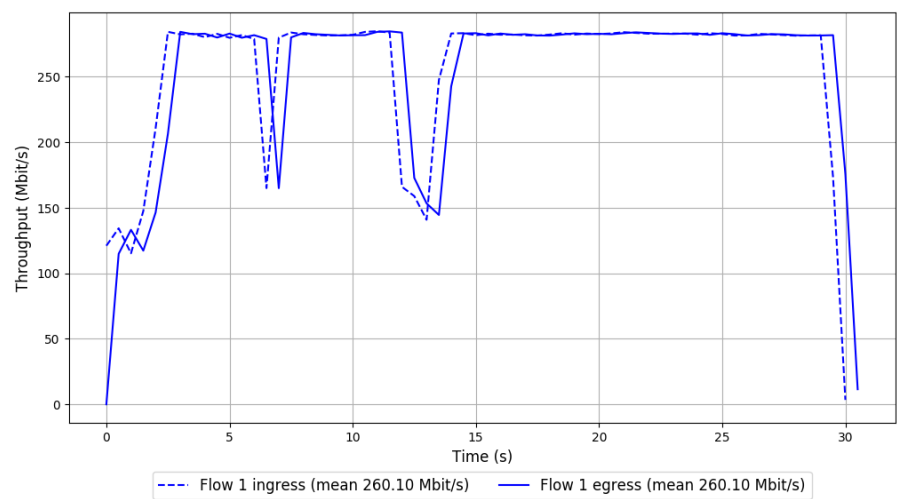
-- Flow 1:

Average throughput: 260.10 Mbit/s

95th percentile per-packet one-way delay: 18.862 ms

Loss rate: 0.00%

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



Run 5: Statistics of TaoVA-100x

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

End at: 2018-07-24 08:44:22

Local clock offset: 3.632 ms

Remote clock offset: 0.982 ms

Below is generated by plot.py at 2018-07-24 12:37:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 278.64 Mbit/s

95th percentile per-packet one-way delay: 18.136 ms

Loss rate: 0.03%

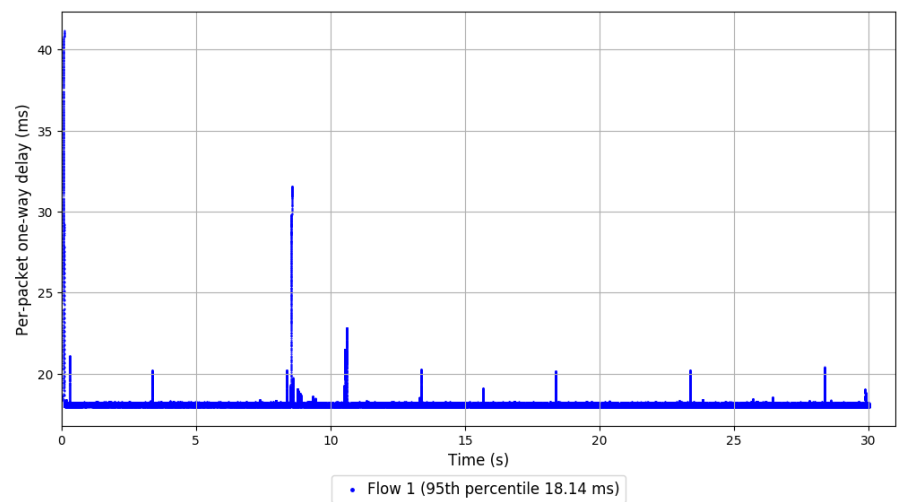
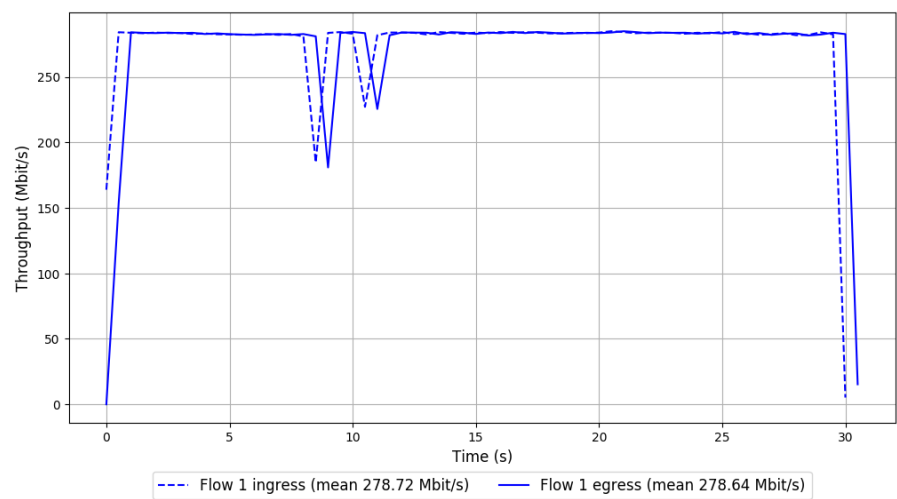
-- Flow 1:

Average throughput: 278.64 Mbit/s

95th percentile per-packet one-way delay: 18.136 ms

Loss rate: 0.03%

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



Run 6: Statistics of TaoVA-100x

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

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

Local clock offset: 3.283 ms

Remote clock offset: 0.812 ms

Below is generated by plot.py at 2018-07-24 12:38:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 248.24 Mbit/s

95th percentile per-packet one-way delay: 18.254 ms

Loss rate: 0.04%

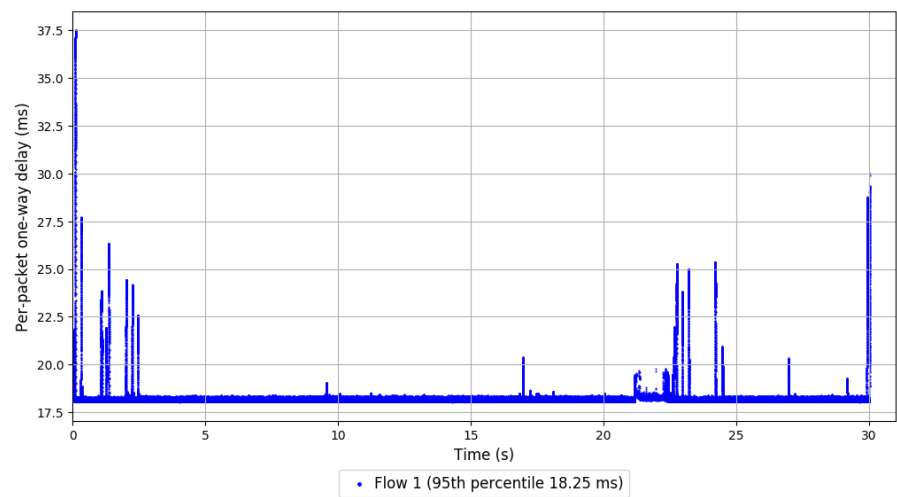
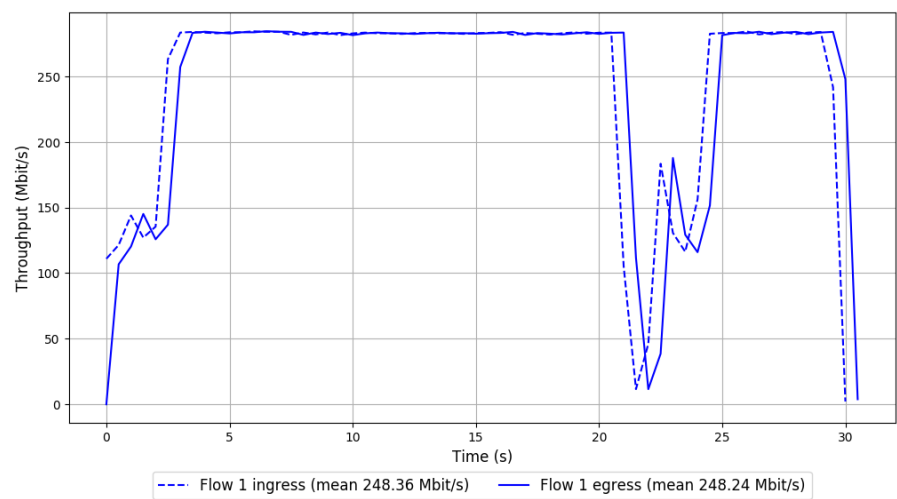
-- Flow 1:

Average throughput: 248.24 Mbit/s

95th percentile per-packet one-way delay: 18.254 ms

Loss rate: 0.04%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-07-24 09:34:56

End at: 2018-07-24 09:35:26

Local clock offset: 3.74 ms

Remote clock offset: 0.683 ms

Below is generated by plot.py at 2018-07-24 12:39:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 274.54 Mbit/s

95th percentile per-packet one-way delay: 19.075 ms

Loss rate: 0.05%

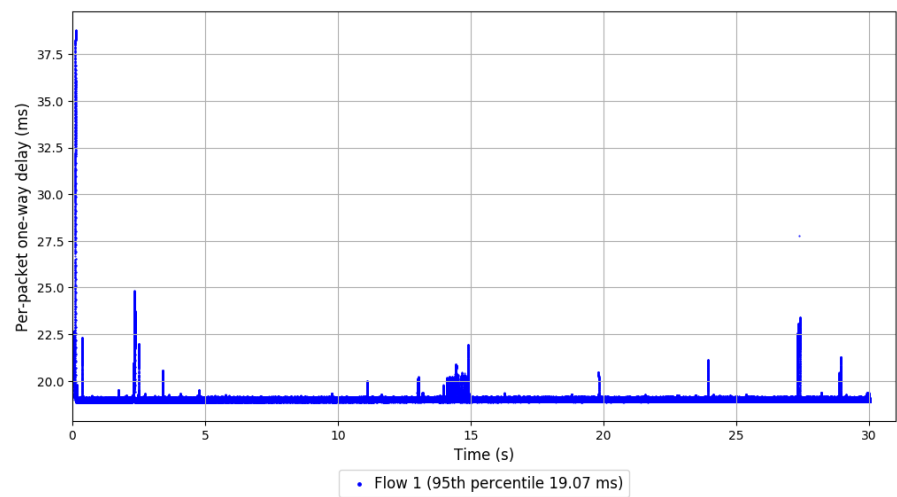
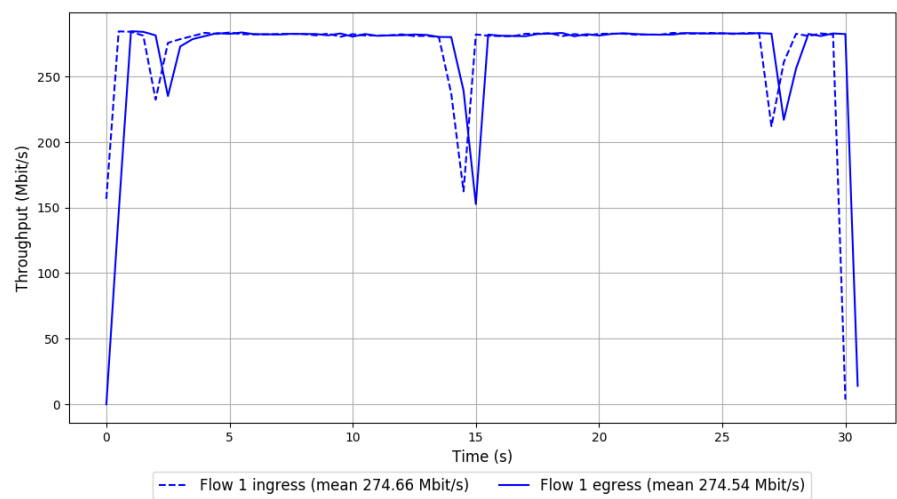
-- Flow 1:

Average throughput: 274.54 Mbit/s

95th percentile per-packet one-way delay: 19.075 ms

Loss rate: 0.05%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-07-24 10:00:25

End at: 2018-07-24 10:00:55

Local clock offset: 4.645 ms

Remote clock offset: 0.645 ms

Below is generated by plot.py at 2018-07-24 12:39:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 194.08 Mbit/s

95th percentile per-packet one-way delay: 19.072 ms

Loss rate: 0.07%

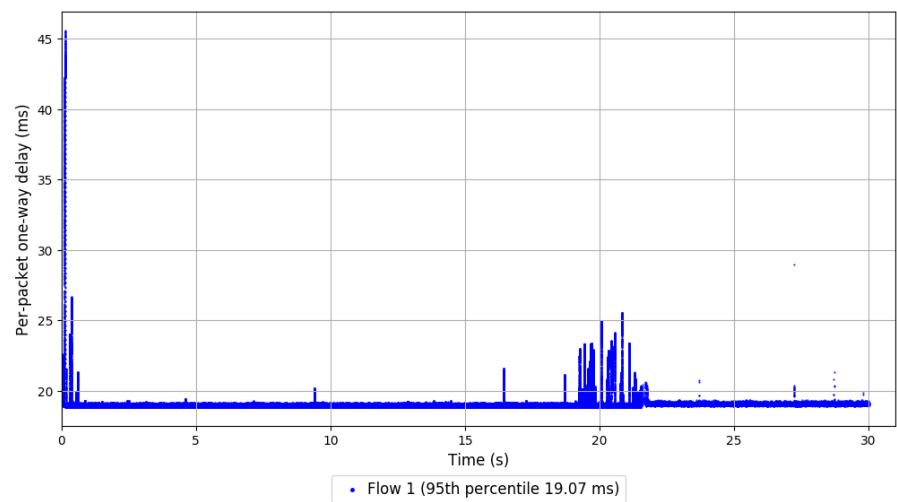
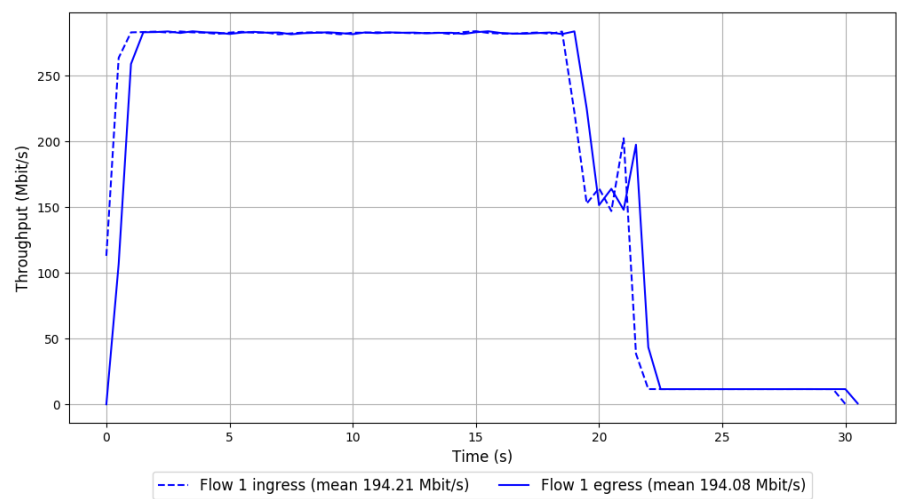
-- Flow 1:

Average throughput: 194.08 Mbit/s

95th percentile per-packet one-way delay: 19.072 ms

Loss rate: 0.07%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-07-24 10:26:06

End at: 2018-07-24 10:26:36

Local clock offset: 4.667 ms

Remote clock offset: 0.664 ms

Below is generated by plot.py at 2018-07-24 12:39:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 258.92 Mbit/s

95th percentile per-packet one-way delay: 18.891 ms

Loss rate: 0.00%

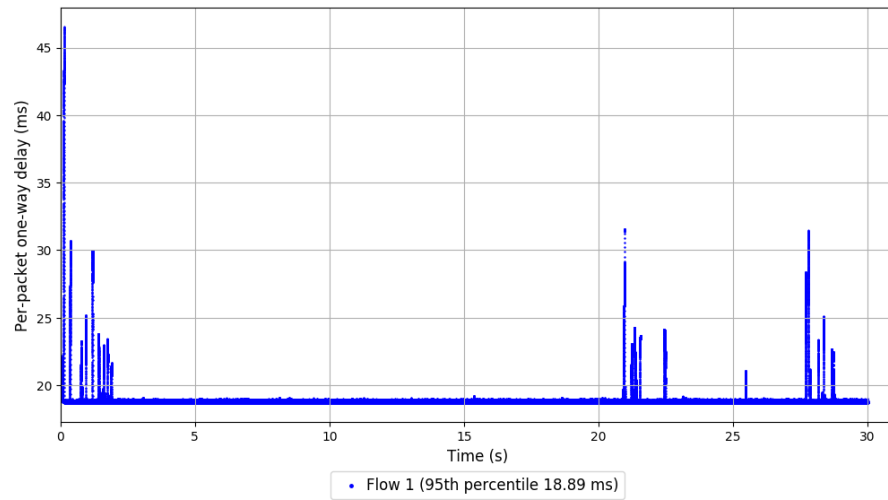
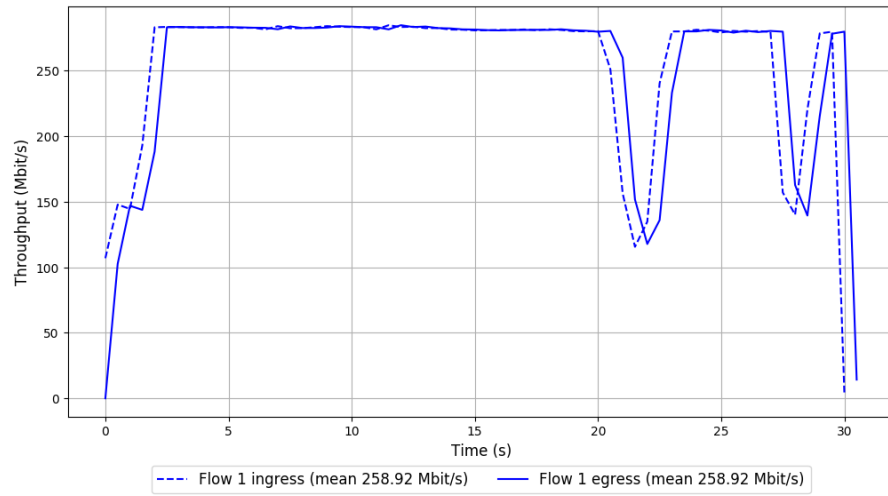
-- Flow 1:

Average throughput: 258.92 Mbit/s

95th percentile per-packet one-way delay: 18.891 ms

Loss rate: 0.00%

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



Run 10: Statistics of TaoVA-100x

Start at: 2018-07-24 10:51:53

End at: 2018-07-24 10:52:23

Local clock offset: 4.778 ms

Remote clock offset: 0.611 ms

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 272.61 Mbit/s

95th percentile per-packet one-way delay: 17.398 ms

Loss rate: 0.01%

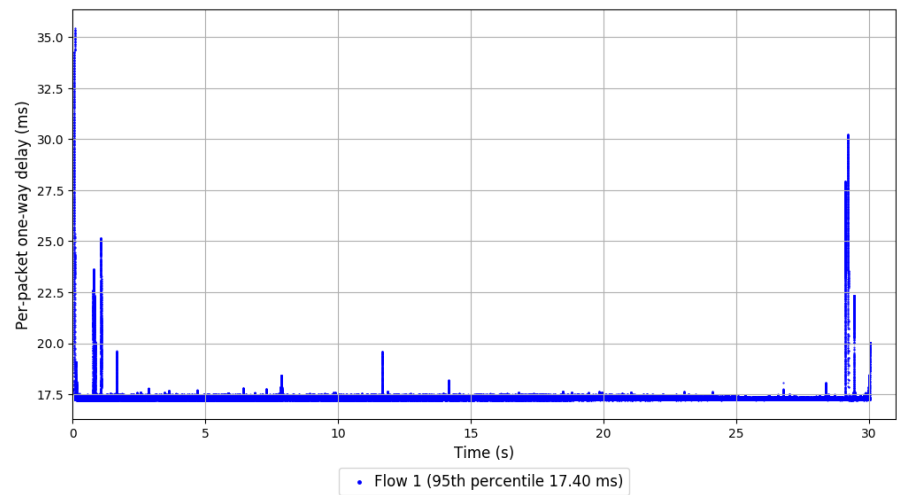
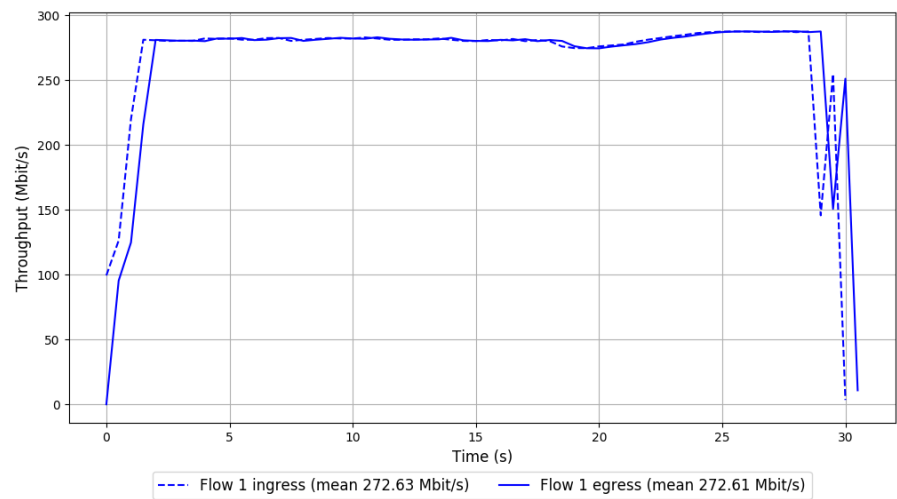
-- Flow 1:

Average throughput: 272.61 Mbit/s

95th percentile per-packet one-way delay: 17.398 ms

Loss rate: 0.01%

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



Run 1: Statistics of TCP Vegas

Start at: 2018-07-24 06:44:38

End at: 2018-07-24 06:45:08

Local clock offset: 7.112 ms

Remote clock offset: 2.398 ms

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.89 Mbit/s

95th percentile per-packet one-way delay: 20.647 ms

Loss rate: 0.26%

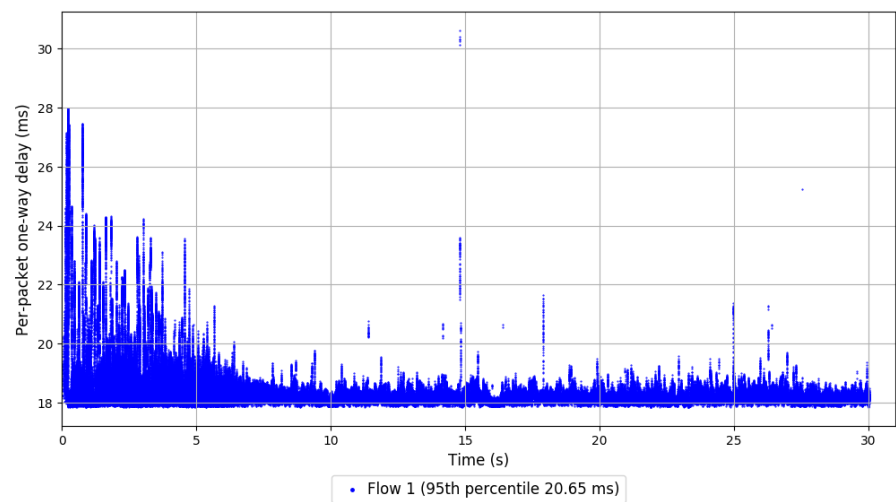
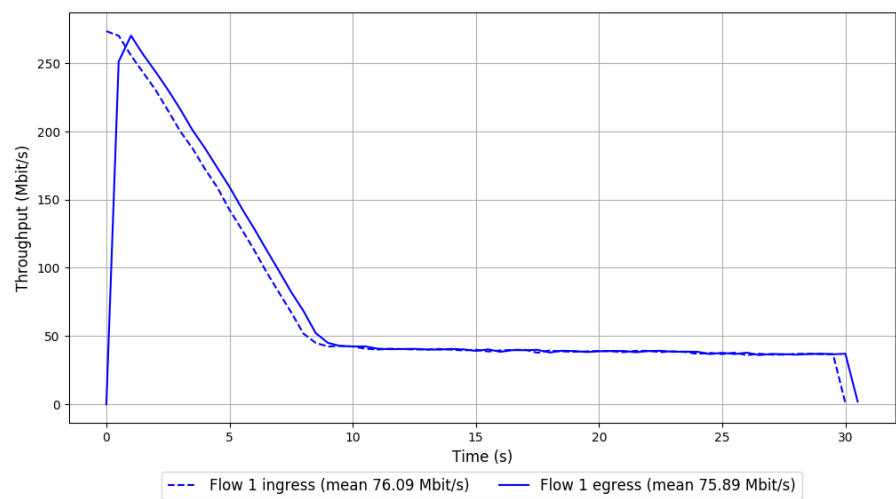
-- Flow 1:

Average throughput: 75.89 Mbit/s

95th percentile per-packet one-way delay: 20.647 ms

Loss rate: 0.26%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

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

End at: 2018-07-24 07:10:54

Local clock offset: 6.099 ms

Remote clock offset: 2.621 ms

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 138.22 Mbit/s

95th percentile per-packet one-way delay: 18.781 ms

Loss rate: 0.26%

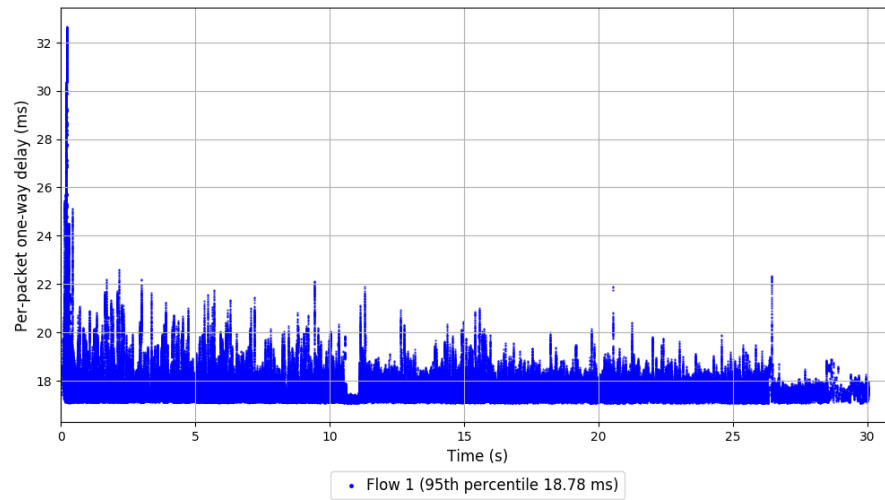
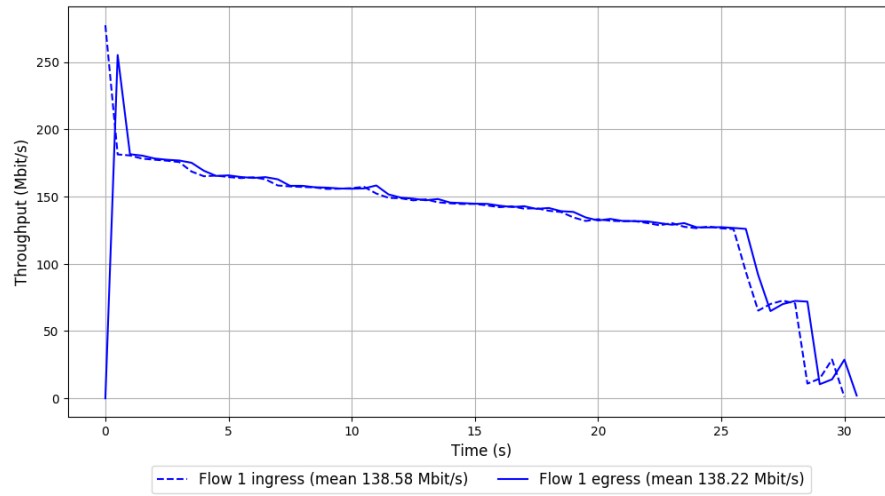
-- Flow 1:

Average throughput: 138.22 Mbit/s

95th percentile per-packet one-way delay: 18.781 ms

Loss rate: 0.26%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-07-24 07:35:55

End at: 2018-07-24 07:36:25

Local clock offset: 5.404 ms

Remote clock offset: 2.313 ms

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.47 Mbit/s

95th percentile per-packet one-way delay: 22.078 ms

Loss rate: 0.31%

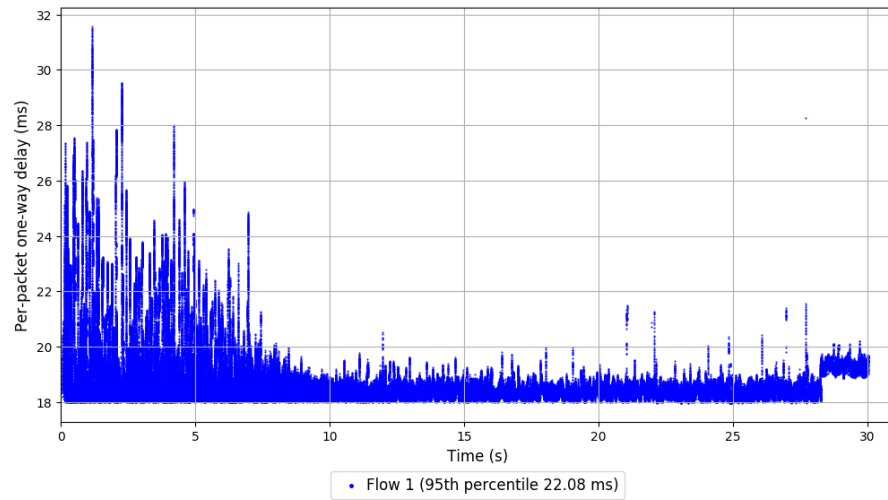
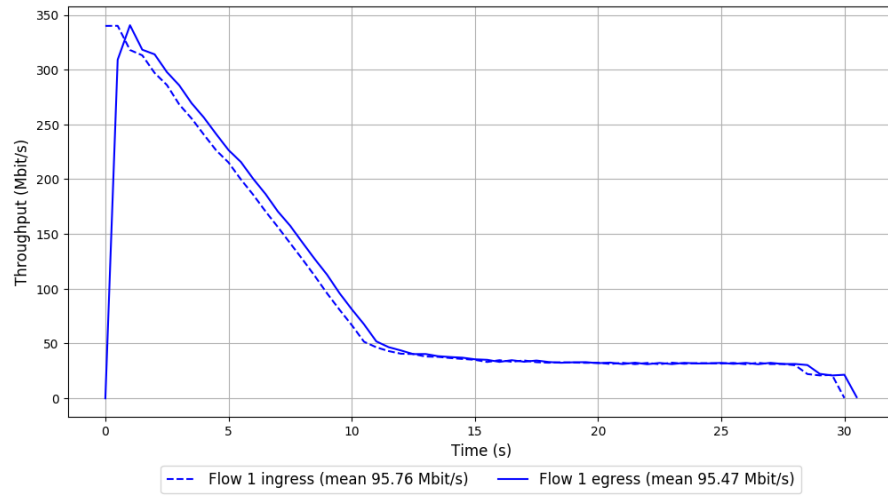
-- Flow 1:

Average throughput: 95.47 Mbit/s

95th percentile per-packet one-way delay: 22.078 ms

Loss rate: 0.31%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-07-24 08:01:40

End at: 2018-07-24 08:02:10

Local clock offset: 4.972 ms

Remote clock offset: 1.739 ms

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 116.12 Mbit/s

95th percentile per-packet one-way delay: 23.448 ms

Loss rate: 0.32%

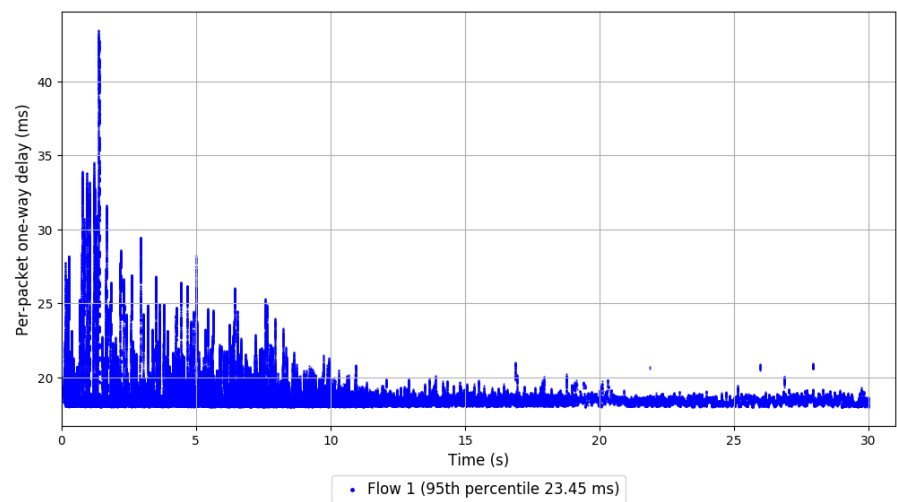
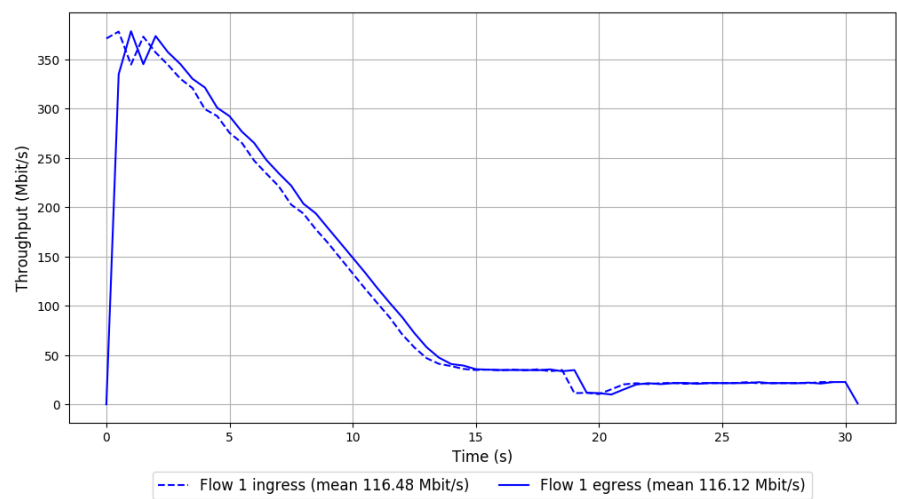
-- Flow 1:

Average throughput: 116.12 Mbit/s

95th percentile per-packet one-way delay: 23.448 ms

Loss rate: 0.32%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-07-24 08:27:17

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

Local clock offset: 4.488 ms

Remote clock offset: 1.265 ms

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 100.65 Mbit/s

95th percentile per-packet one-way delay: 23.752 ms

Loss rate: 0.41%

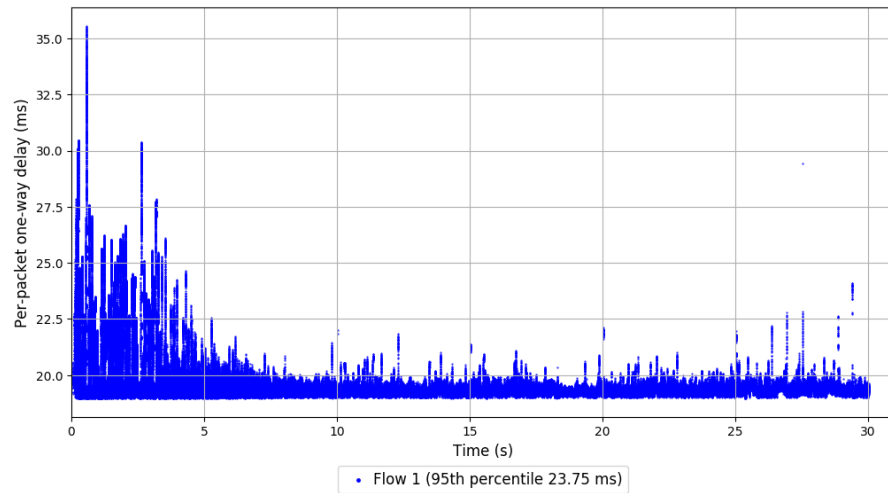
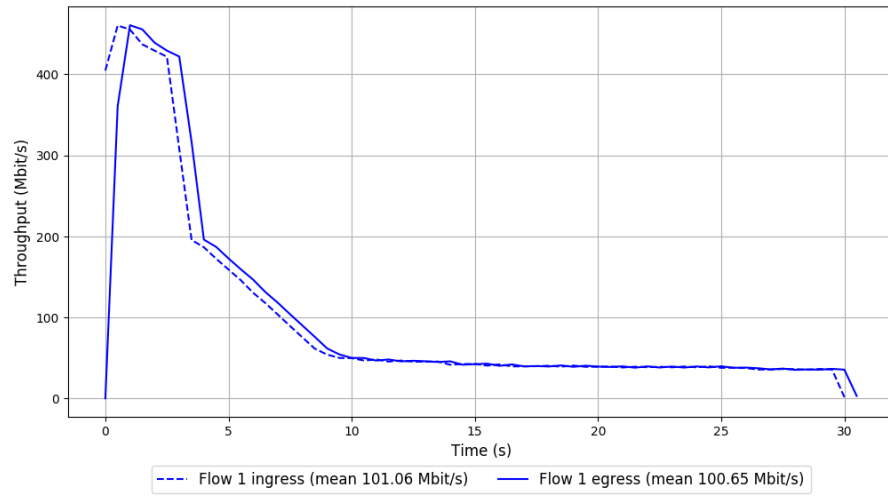
-- Flow 1:

Average throughput: 100.65 Mbit/s

95th percentile per-packet one-way delay: 23.752 ms

Loss rate: 0.41%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-07-24 08:52:28

End at: 2018-07-24 08:52:58

Local clock offset: 3.476 ms

Remote clock offset: 0.915 ms

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 233.71 Mbit/s

95th percentile per-packet one-way delay: 20.542 ms

Loss rate: 0.01%

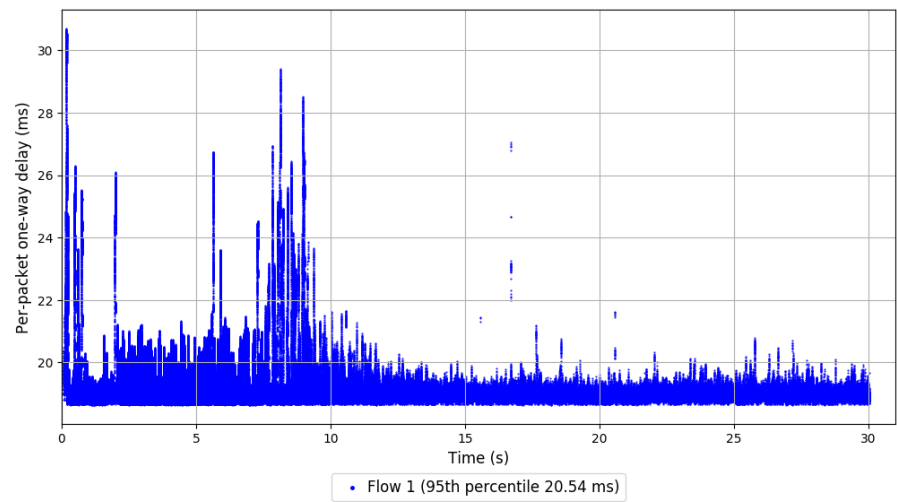
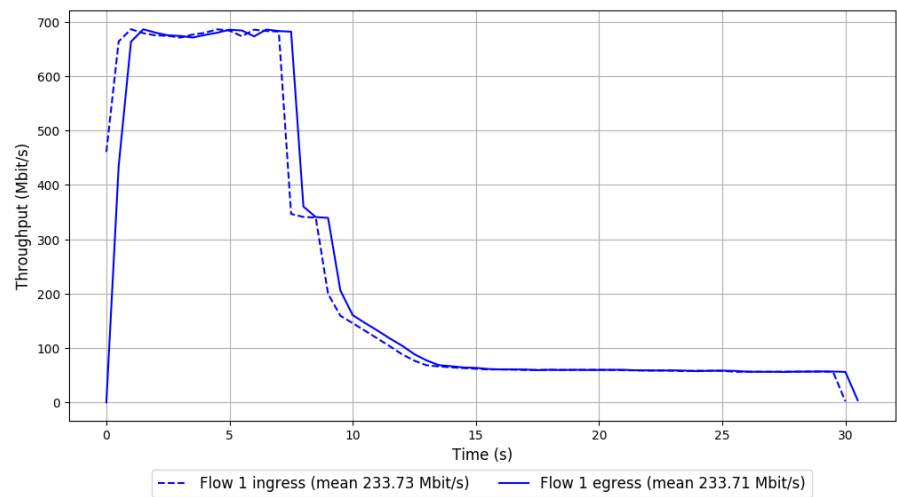
-- Flow 1:

Average throughput: 233.71 Mbit/s

95th percentile per-packet one-way delay: 20.542 ms

Loss rate: 0.01%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-07-24 09:18:12

End at: 2018-07-24 09:18:42

Local clock offset: 3.352 ms

Remote clock offset: 0.766 ms

Below is generated by plot.py at 2018-07-24 12:42:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 344.70 Mbit/s

95th percentile per-packet one-way delay: 24.322 ms

Loss rate: 0.08%

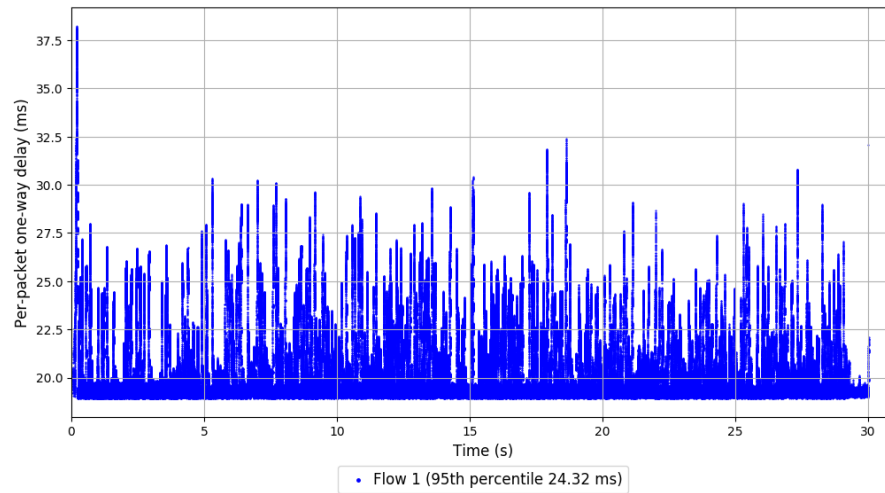
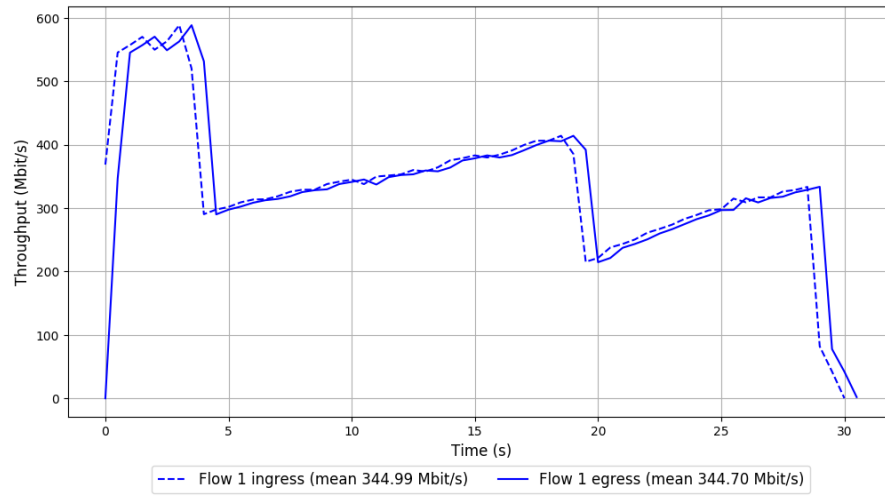
-- Flow 1:

Average throughput: 344.70 Mbit/s

95th percentile per-packet one-way delay: 24.322 ms

Loss rate: 0.08%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-07-24 09:43:45

End at: 2018-07-24 09:44:15

Local clock offset: 4.201 ms

Remote clock offset: 0.696 ms

Below is generated by plot.py at 2018-07-24 12:42:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 222.70 Mbit/s

95th percentile per-packet one-way delay: 23.589 ms

Loss rate: 0.02%

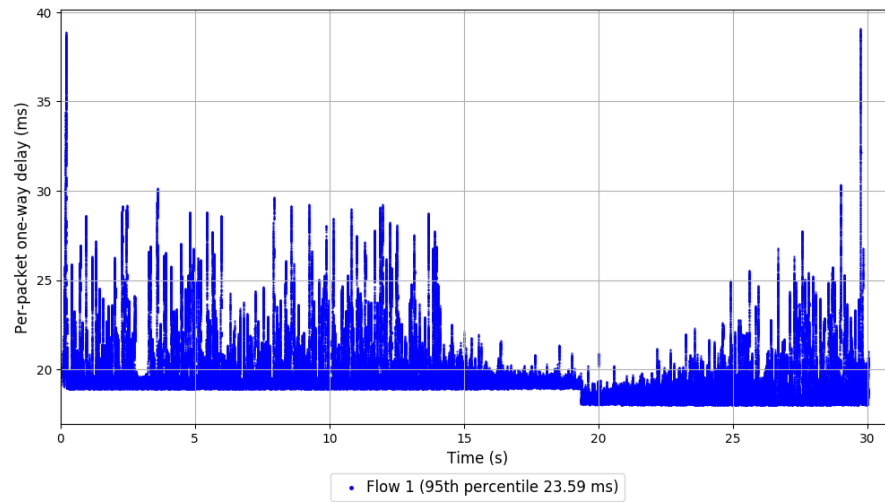
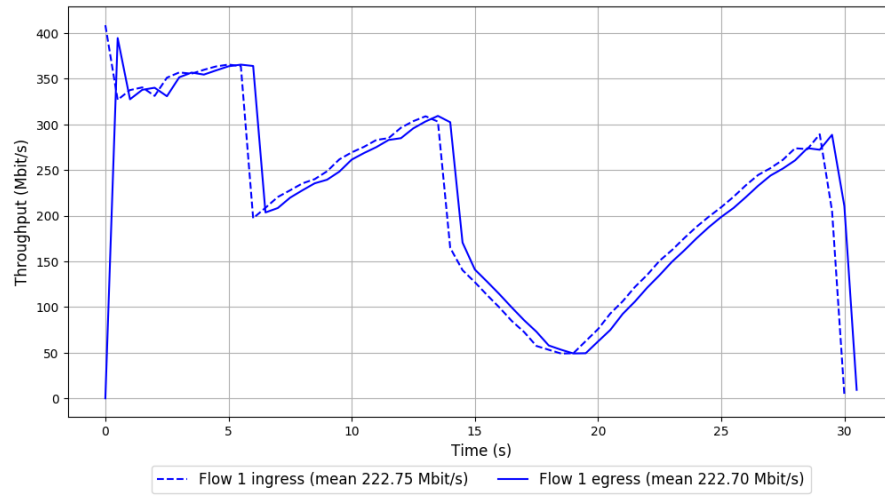
-- Flow 1:

Average throughput: 222.70 Mbit/s

95th percentile per-packet one-way delay: 23.589 ms

Loss rate: 0.02%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

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

End at: 2018-07-24 10:09:54

Local clock offset: 4.566 ms

Remote clock offset: 0.649 ms

Below is generated by plot.py at 2018-07-24 12:42:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 286.53 Mbit/s

95th percentile per-packet one-way delay: 22.112 ms

Loss rate: 0.02%

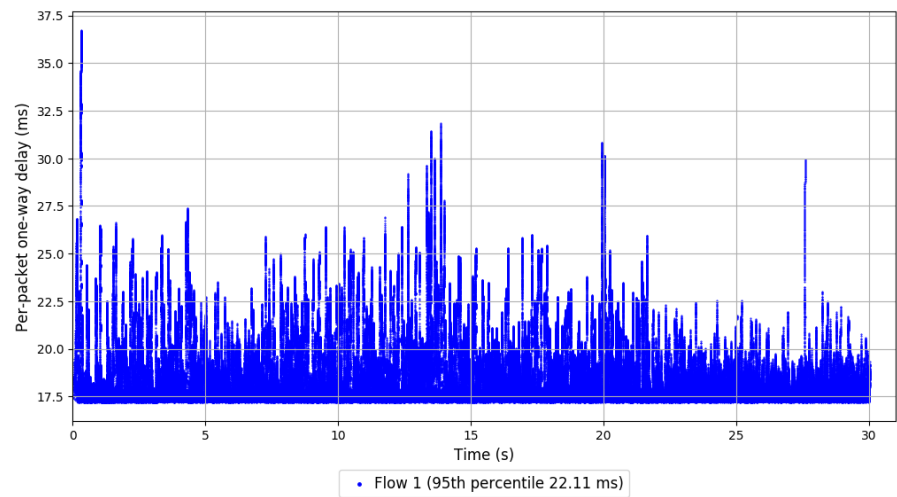
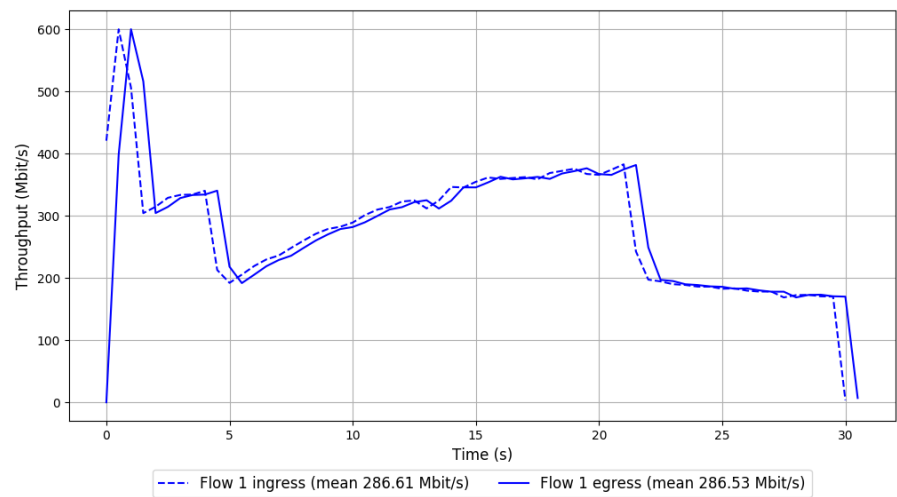
-- Flow 1:

Average throughput: 286.53 Mbit/s

95th percentile per-packet one-way delay: 22.112 ms

Loss rate: 0.02%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-07-24 10:35:10

End at: 2018-07-24 10:35:40

Local clock offset: 4.715 ms

Remote clock offset: 0.654 ms

Below is generated by plot.py at 2018-07-24 12:42:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 325.48 Mbit/s

95th percentile per-packet one-way delay: 22.880 ms

Loss rate: 0.00%

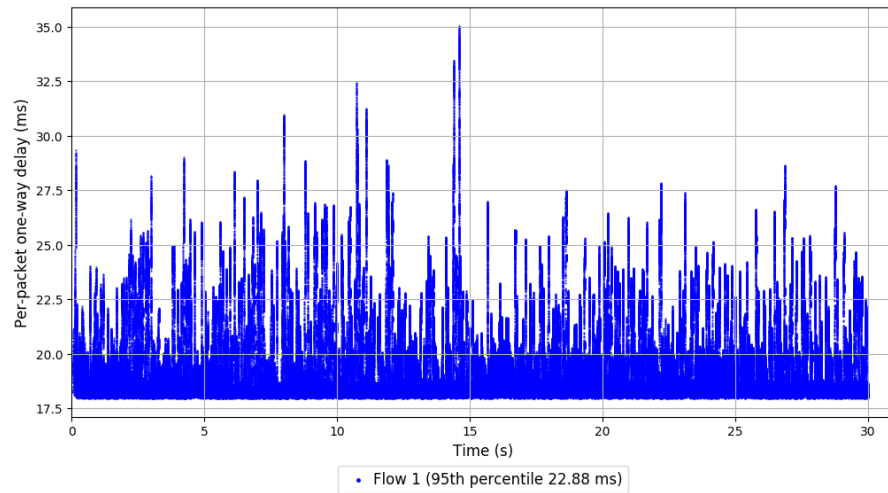
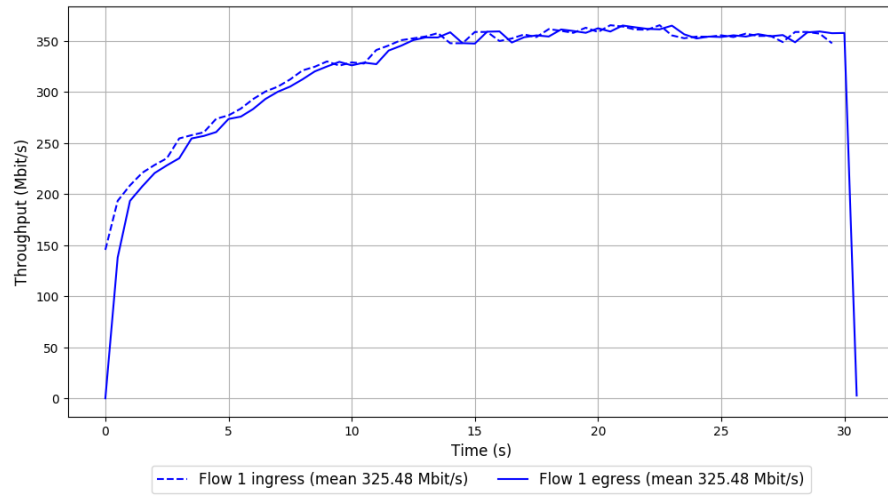
-- Flow 1:

Average throughput: 325.48 Mbit/s

95th percentile per-packet one-way delay: 22.880 ms

Loss rate: 0.00%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-07-24 06:51:55

End at: 2018-07-24 06:52:25

Local clock offset: 7.166 ms

Remote clock offset: 2.427 ms

Below is generated by plot.py at 2018-07-24 12:43:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 267.09 Mbit/s

95th percentile per-packet one-way delay: 40.802 ms

Loss rate: 18.80%

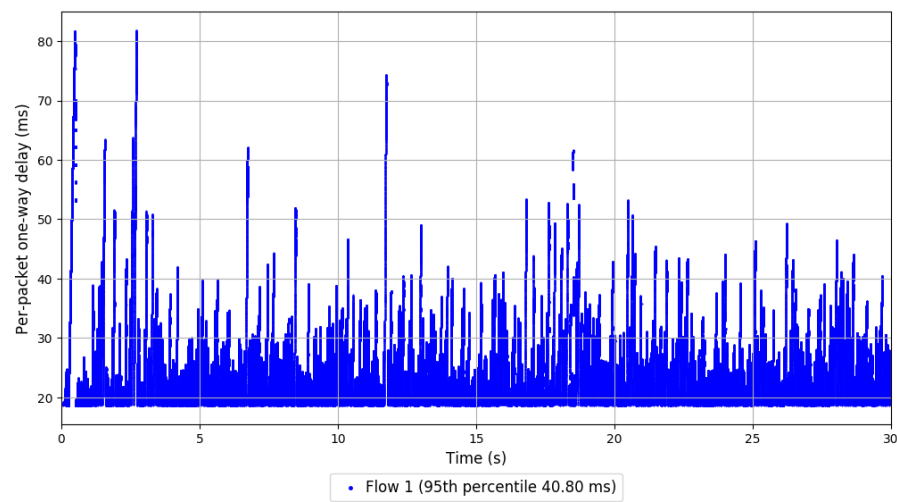
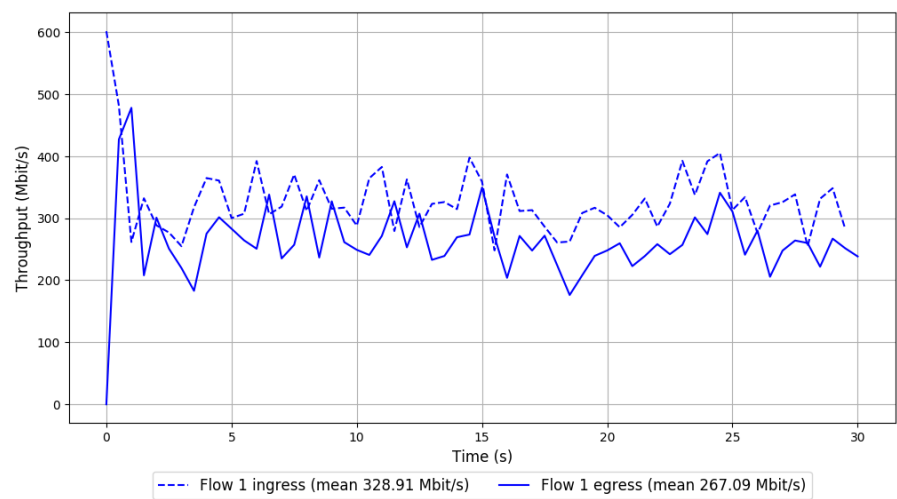
-- Flow 1:

Average throughput: 267.09 Mbit/s

95th percentile per-packet one-way delay: 40.802 ms

Loss rate: 18.80%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

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

End at: 2018-07-24 07:18:12

Local clock offset: 5.736 ms

Remote clock offset: 2.503 ms

Below is generated by plot.py at 2018-07-24 12:43:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 179.71 Mbit/s

95th percentile per-packet one-way delay: 51.352 ms

Loss rate: 21.57%

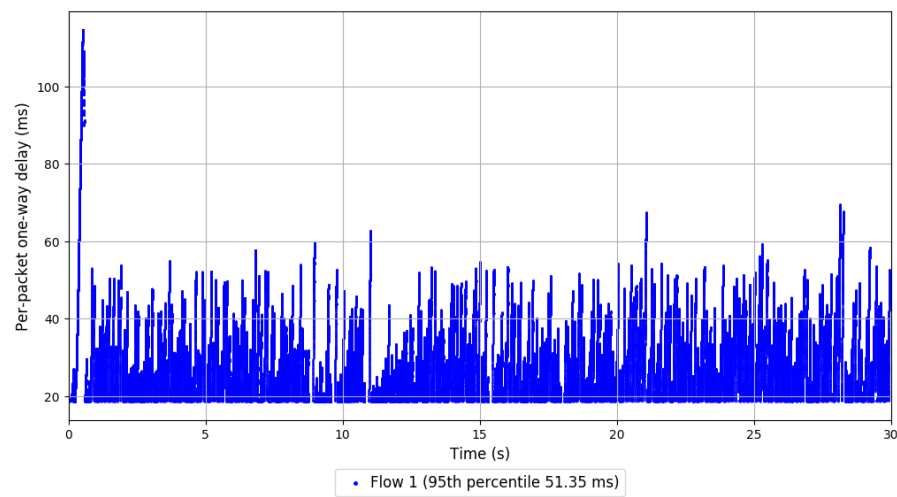
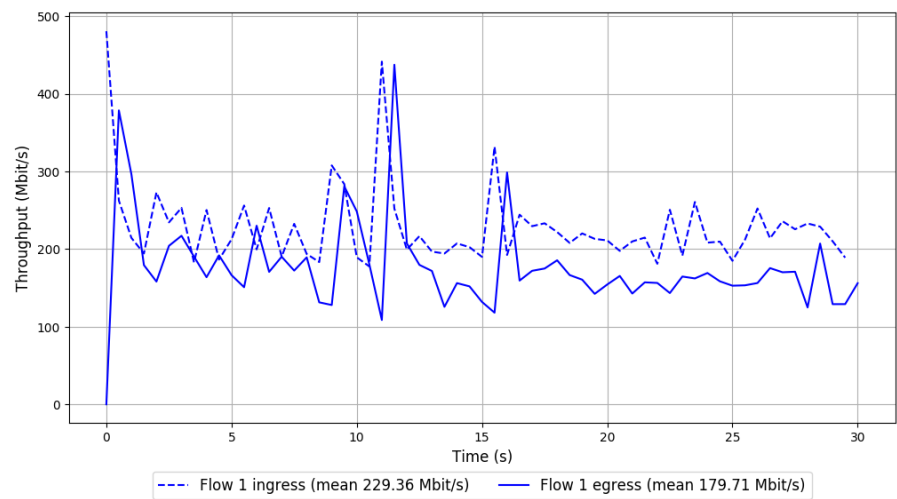
-- Flow 1:

Average throughput: 179.71 Mbit/s

95th percentile per-packet one-way delay: 51.352 ms

Loss rate: 21.57%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-07-24 07:43:19

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

Local clock offset: 4.807 ms

Remote clock offset: 2.166 ms

Below is generated by plot.py at 2018-07-24 12:43:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 219.38 Mbit/s

95th percentile per-packet one-way delay: 54.611 ms

Loss rate: 19.04%

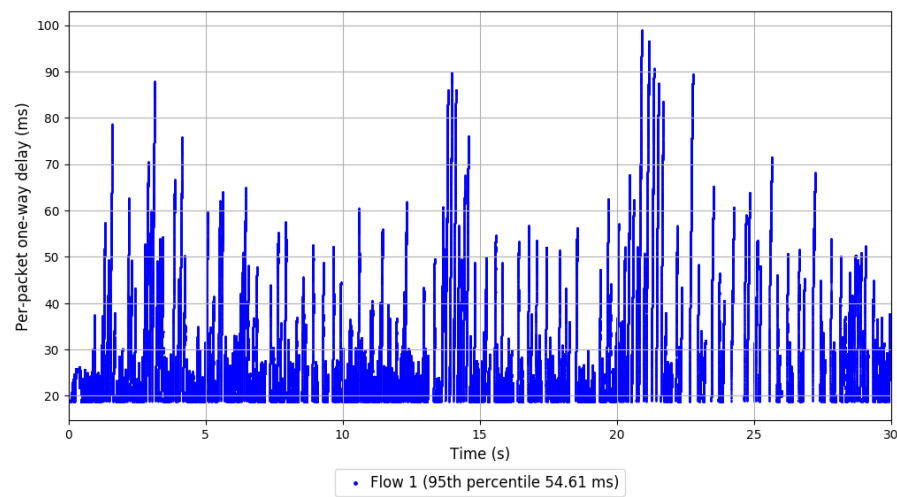
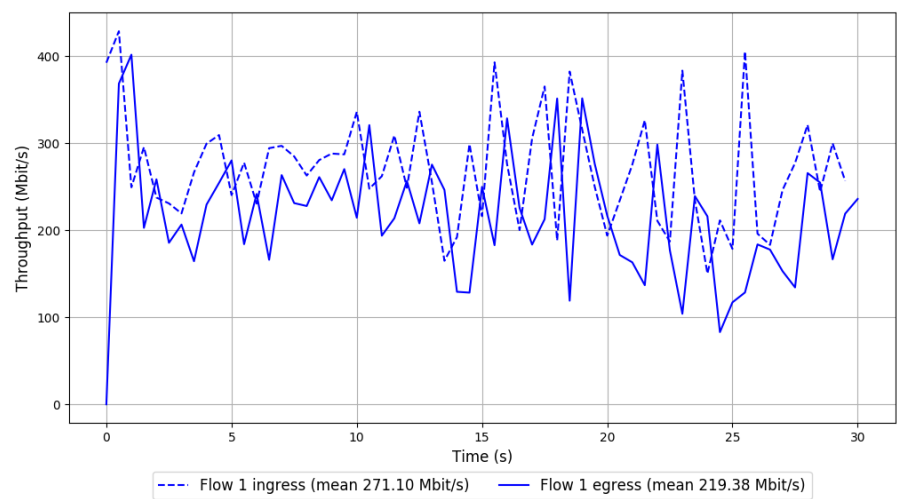
-- Flow 1:

Average throughput: 219.38 Mbit/s

95th percentile per-packet one-way delay: 54.611 ms

Loss rate: 19.04%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-07-24 08:08:53

End at: 2018-07-24 08:09:23

Local clock offset: 4.478 ms

Remote clock offset: 1.484 ms

Below is generated by plot.py at 2018-07-24 12:43:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 202.97 Mbit/s

95th percentile per-packet one-way delay: 48.845 ms

Loss rate: 26.07%

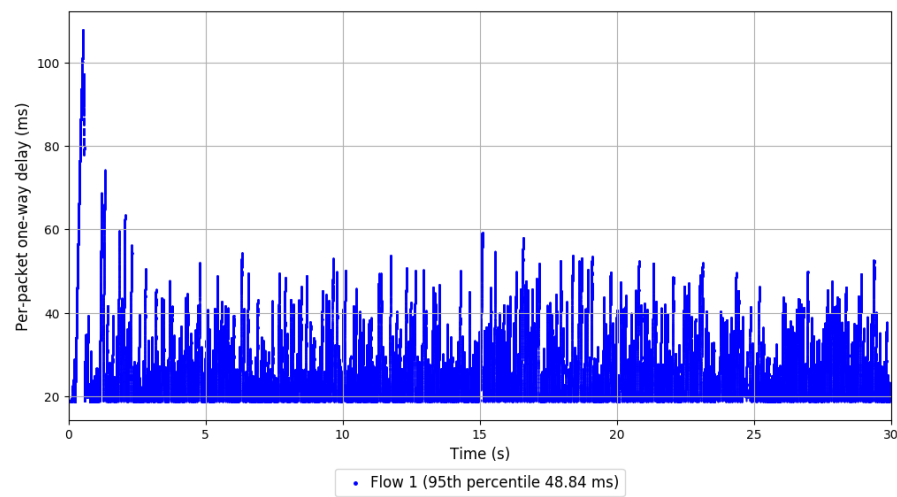
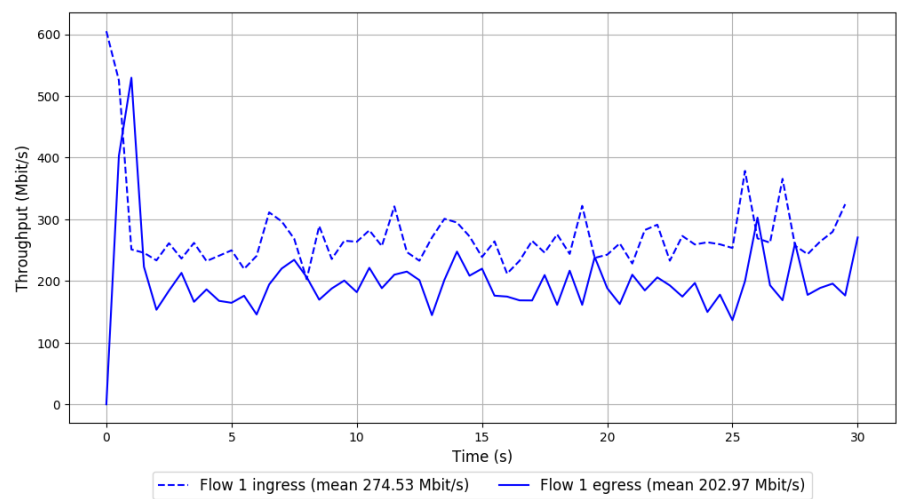
-- Flow 1:

Average throughput: 202.97 Mbit/s

95th percentile per-packet one-way delay: 48.845 ms

Loss rate: 26.07%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-07-24 08:34:31

End at: 2018-07-24 08:35:01

Local clock offset: 4.266 ms

Remote clock offset: 1.089 ms

Below is generated by plot.py at 2018-07-24 12:44:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 234.22 Mbit/s

95th percentile per-packet one-way delay: 45.690 ms

Loss rate: 18.41%

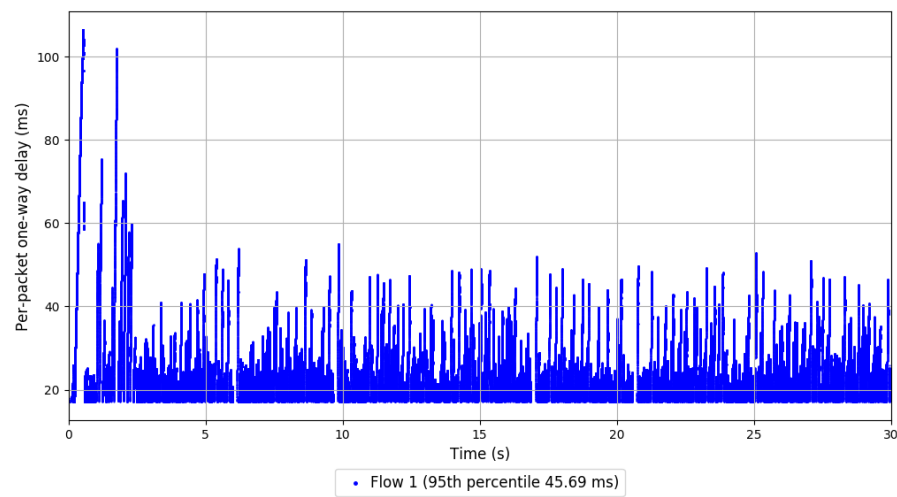
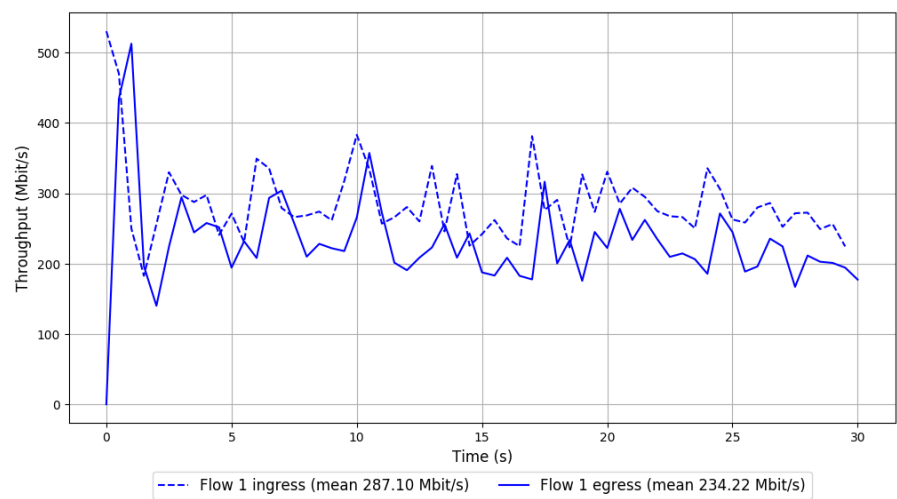
-- Flow 1:

Average throughput: 234.22 Mbit/s

95th percentile per-packet one-way delay: 45.690 ms

Loss rate: 18.41%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-07-24 08:59:45

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

Local clock offset: 3.308 ms

Remote clock offset: 0.9 ms

Below is generated by plot.py at 2018-07-24 12:45:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 277.50 Mbit/s

95th percentile per-packet one-way delay: 33.722 ms

Loss rate: 19.53%

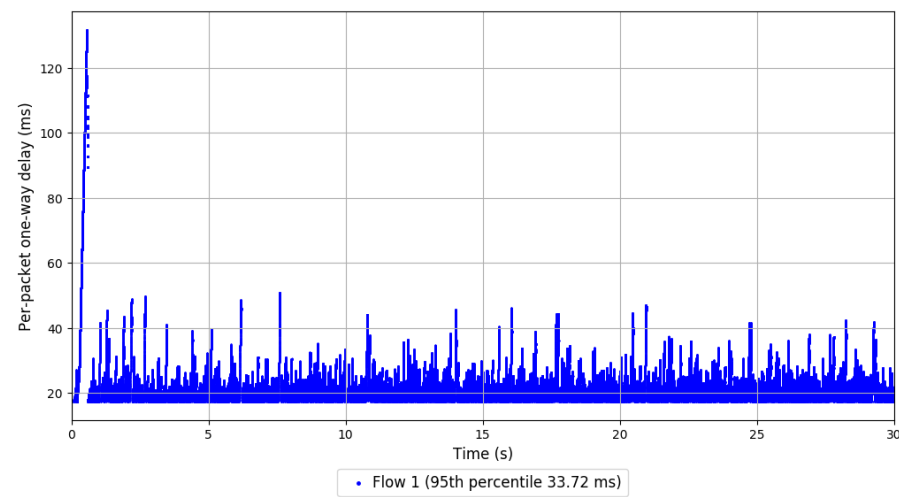
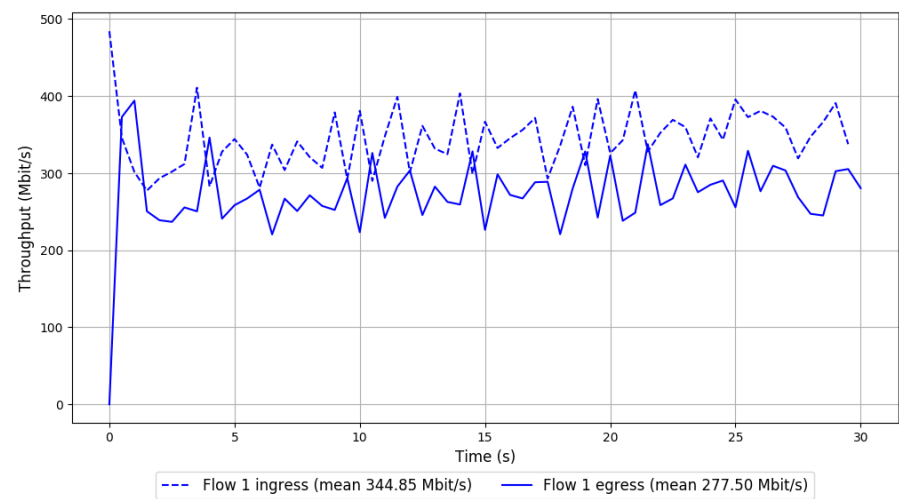
-- Flow 1:

Average throughput: 277.50 Mbit/s

95th percentile per-packet one-way delay: 33.722 ms

Loss rate: 19.53%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-07-24 09:25:36

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

Local clock offset: 3.396 ms

Remote clock offset: 0.714 ms

Below is generated by plot.py at 2018-07-24 12:45:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 248.63 Mbit/s

95th percentile per-packet one-way delay: 48.728 ms

Loss rate: 18.50%

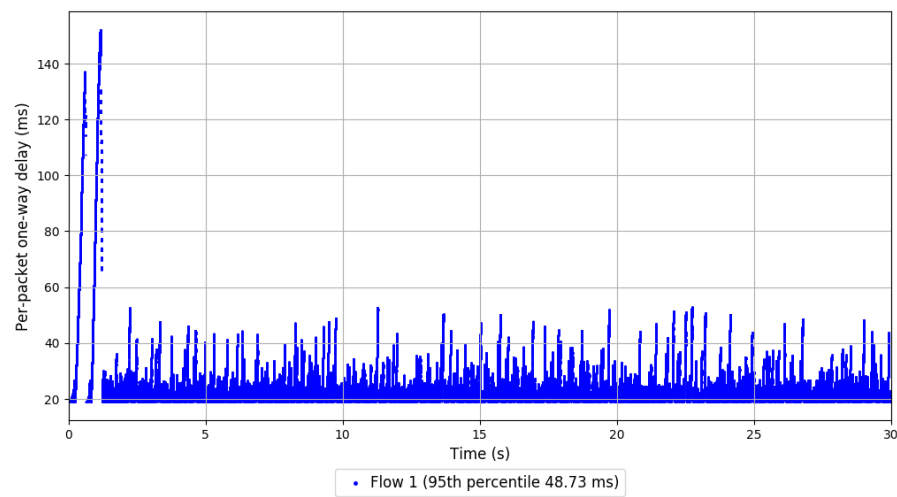
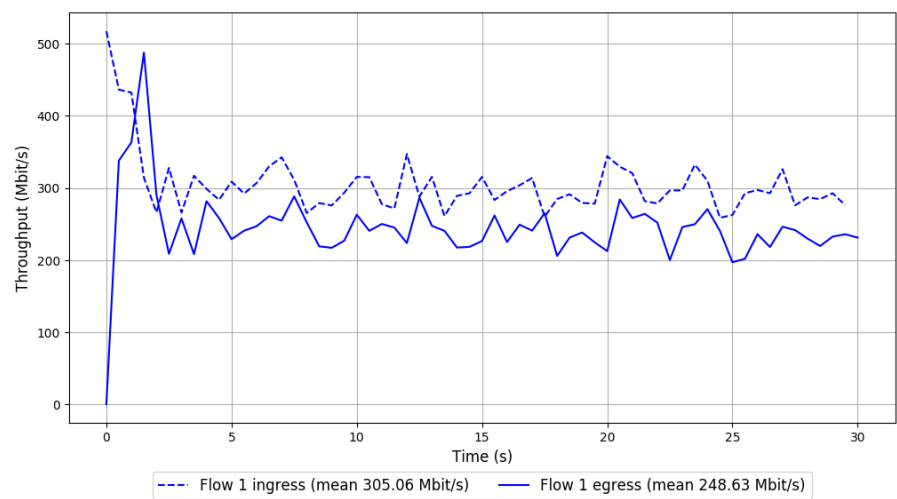
-- Flow 1:

Average throughput: 248.63 Mbit/s

95th percentile per-packet one-way delay: 48.728 ms

Loss rate: 18.50%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-07-24 09:51:05

End at: 2018-07-24 09:51:35

Local clock offset: 4.451 ms

Remote clock offset: 0.721 ms

Below is generated by plot.py at 2018-07-24 12:45:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 253.85 Mbit/s

95th percentile per-packet one-way delay: 37.358 ms

Loss rate: 18.57%

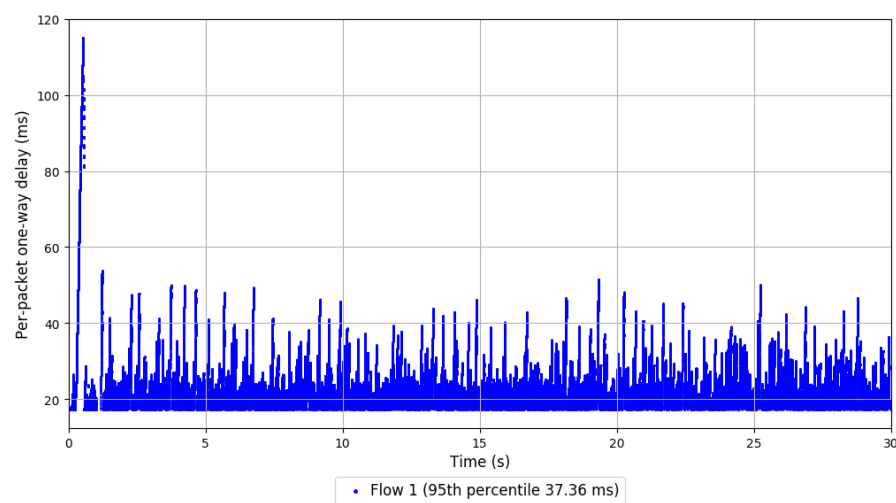
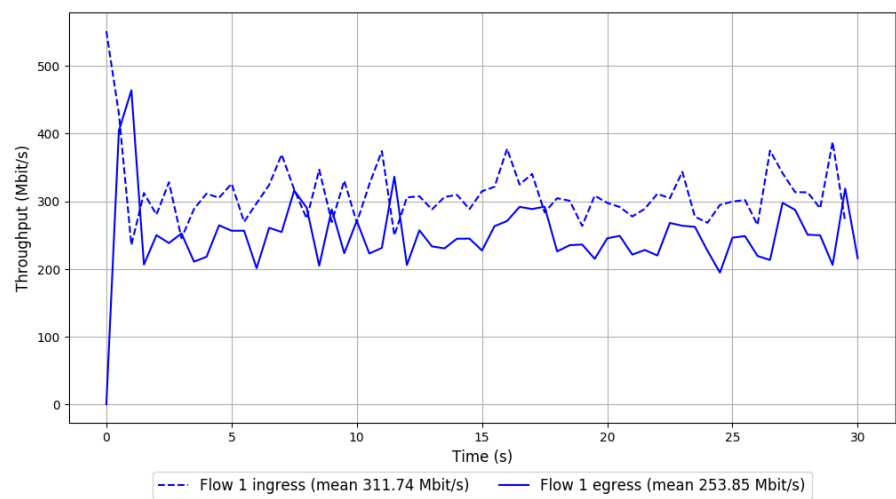
-- Flow 1:

Average throughput: 253.85 Mbit/s

95th percentile per-packet one-way delay: 37.358 ms

Loss rate: 18.57%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-07-24 10:16:41

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

Local clock offset: 4.597 ms

Remote clock offset: 0.636 ms

Below is generated by plot.py at 2018-07-24 12:45:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 257.30 Mbit/s

95th percentile per-packet one-way delay: 33.617 ms

Loss rate: 15.55%

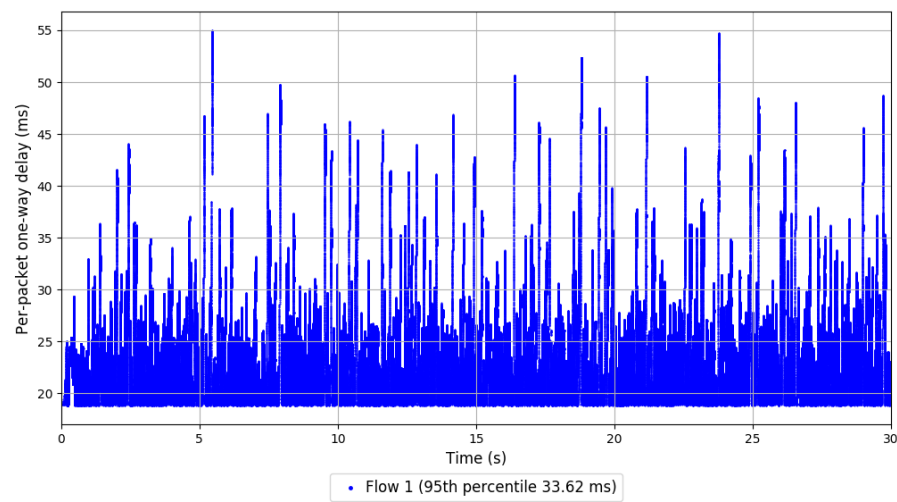
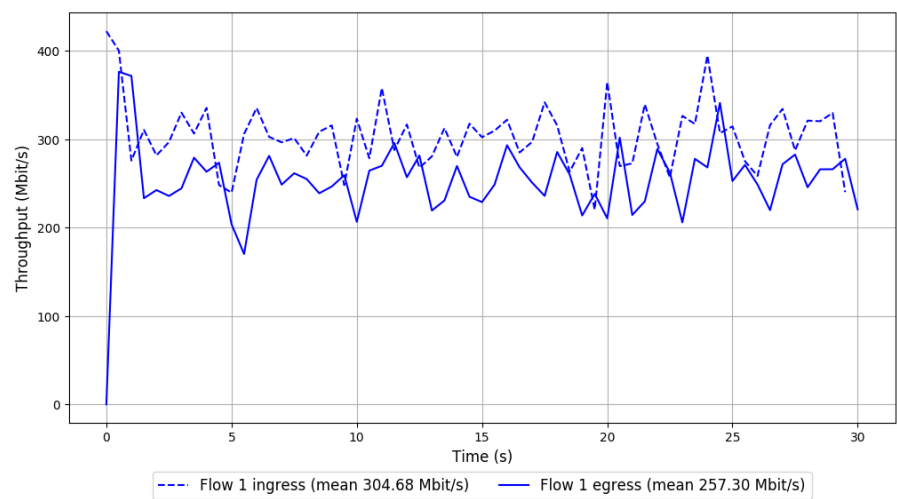
-- Flow 1:

Average throughput: 257.30 Mbit/s

95th percentile per-packet one-way delay: 33.617 ms

Loss rate: 15.55%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-07-24 10:42:29

End at: 2018-07-24 10:42:59

Local clock offset: 4.743 ms

Remote clock offset: 0.564 ms

Below is generated by plot.py at 2018-07-24 12:45:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 263.87 Mbit/s

95th percentile per-packet one-way delay: 37.999 ms

Loss rate: 13.94%

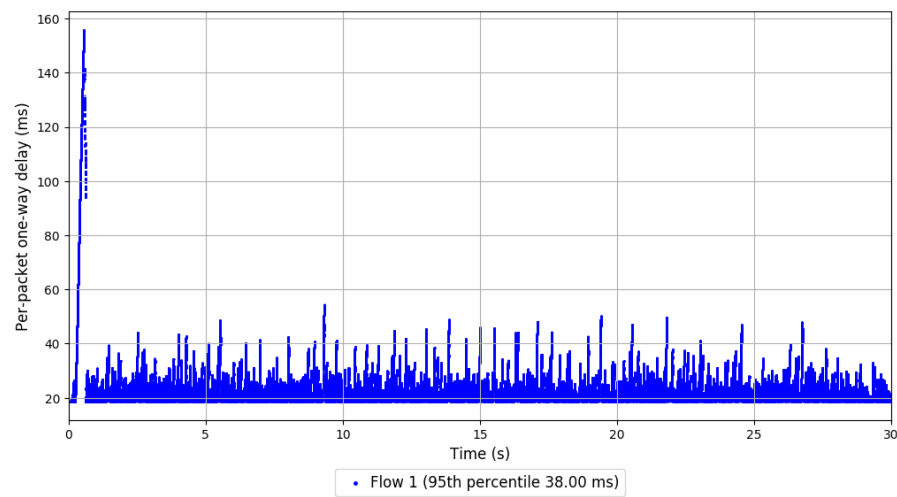
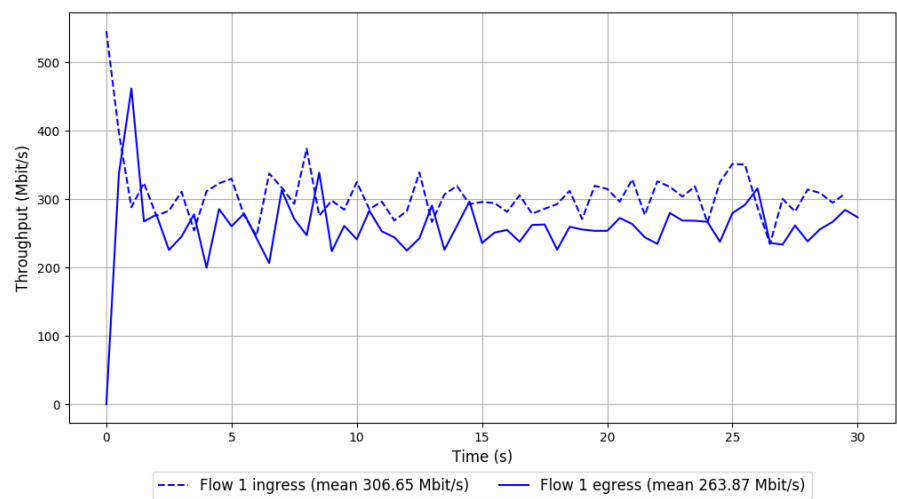
-- Flow 1:

Average throughput: 263.87 Mbit/s

95th percentile per-packet one-way delay: 37.999 ms

Loss rate: 13.94%

Run 10: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2018-07-24 06:56:19

End at: 2018-07-24 06:56:49

Local clock offset: 7.379 ms

Remote clock offset: 2.514 ms

Below is generated by plot.py at 2018-07-24 12:48:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 438.01 Mbit/s

95th percentile per-packet one-way delay: 52.111 ms

Loss rate: 0.00%

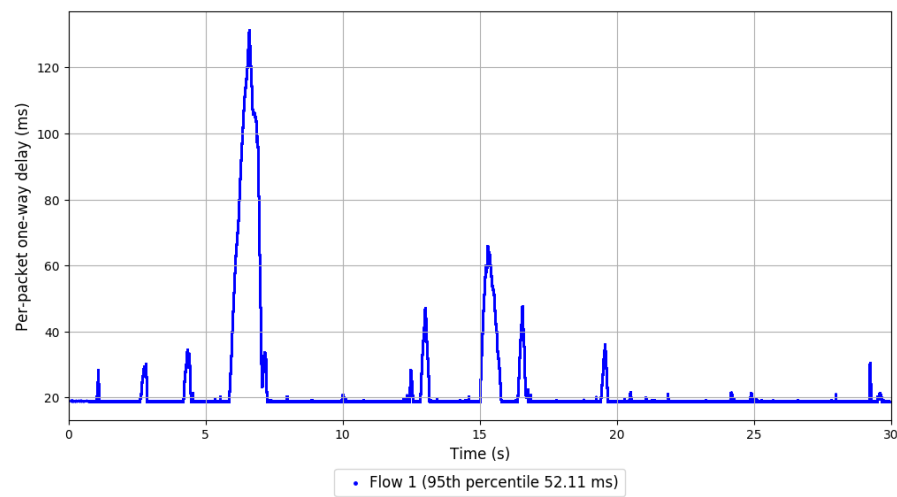
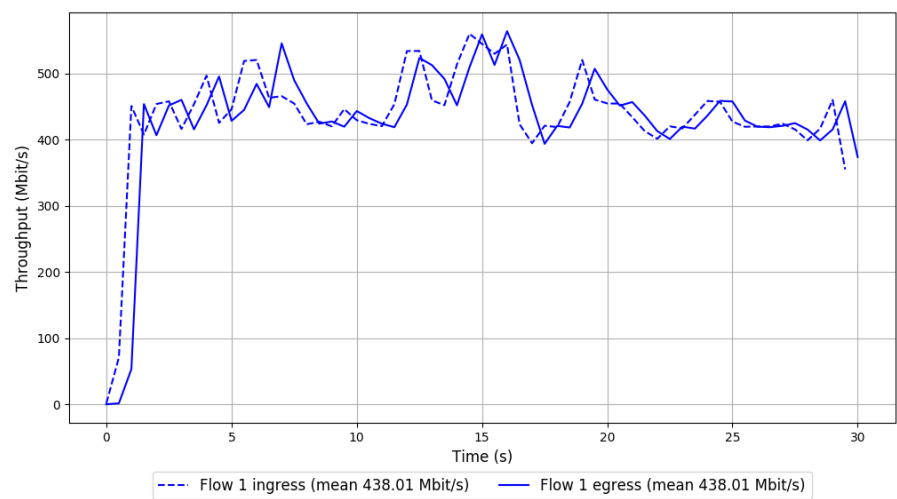
-- Flow 1:

Average throughput: 438.01 Mbit/s

95th percentile per-packet one-way delay: 52.111 ms

Loss rate: 0.00%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2018-07-24 07:22:05

End at: 2018-07-24 07:22:35

Local clock offset: 5.669 ms

Remote clock offset: 2.463 ms

Below is generated by plot.py at 2018-07-24 12:48:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 443.73 Mbit/s

95th percentile per-packet one-way delay: 29.909 ms

Loss rate: 0.01%

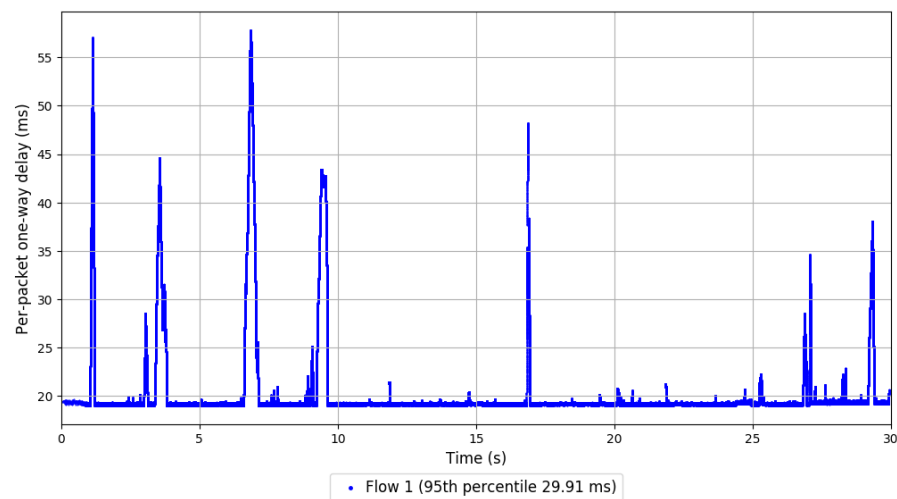
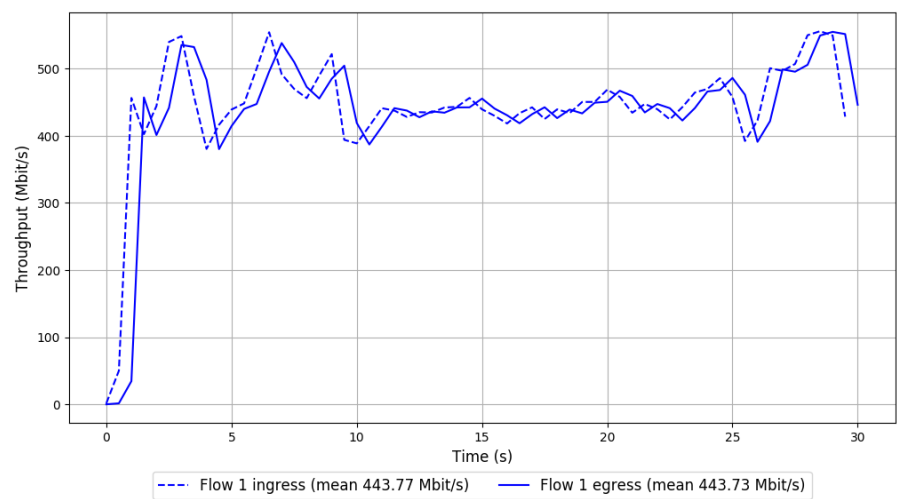
-- Flow 1:

Average throughput: 443.73 Mbit/s

95th percentile per-packet one-way delay: 29.909 ms

Loss rate: 0.01%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-07-24 07:47:42

End at: 2018-07-24 07:48:12

Local clock offset: 4.709 ms

Remote clock offset: 2.049 ms

Below is generated by plot.py at 2018-07-24 12:49:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 444.55 Mbit/s

95th percentile per-packet one-way delay: 31.670 ms

Loss rate: 0.00%

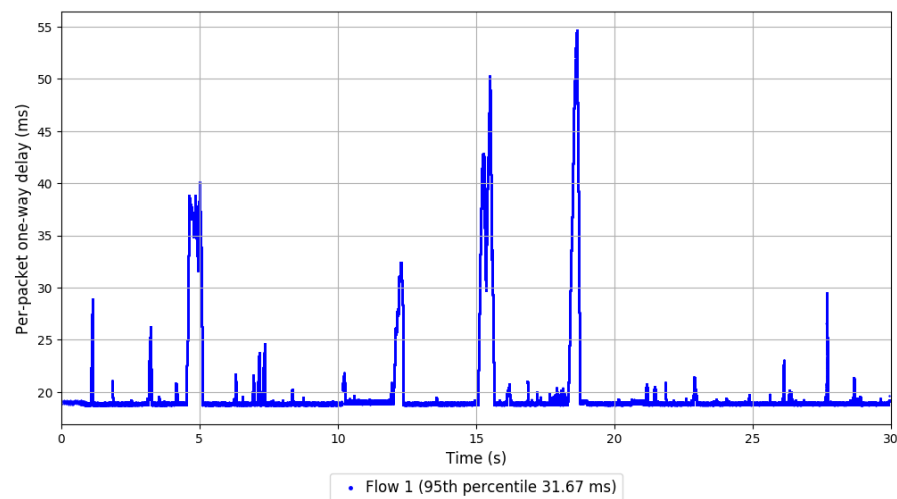
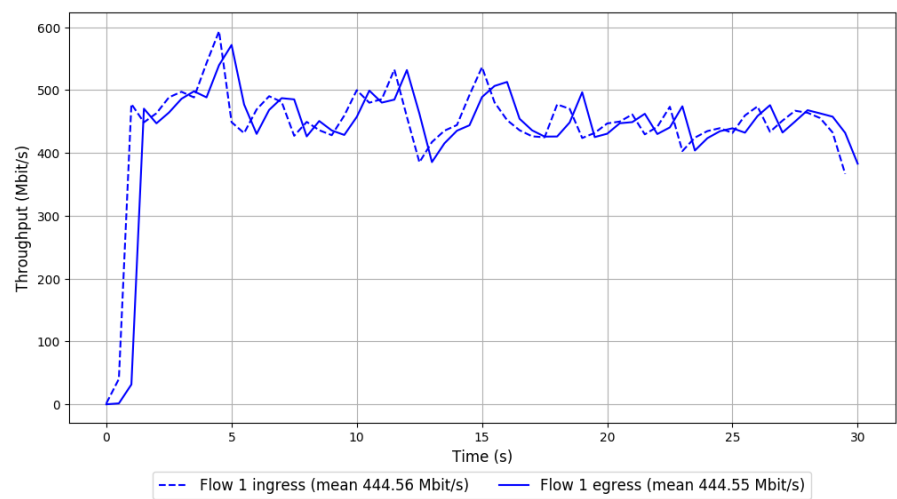
-- Flow 1:

Average throughput: 444.55 Mbit/s

95th percentile per-packet one-way delay: 31.670 ms

Loss rate: 0.00%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2018-07-24 08:13:16

End at: 2018-07-24 08:13:46

Local clock offset: 4.399 ms

Remote clock offset: 1.461 ms

Below is generated by plot.py at 2018-07-24 12:50:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 439.50 Mbit/s

95th percentile per-packet one-way delay: 41.756 ms

Loss rate: 0.00%

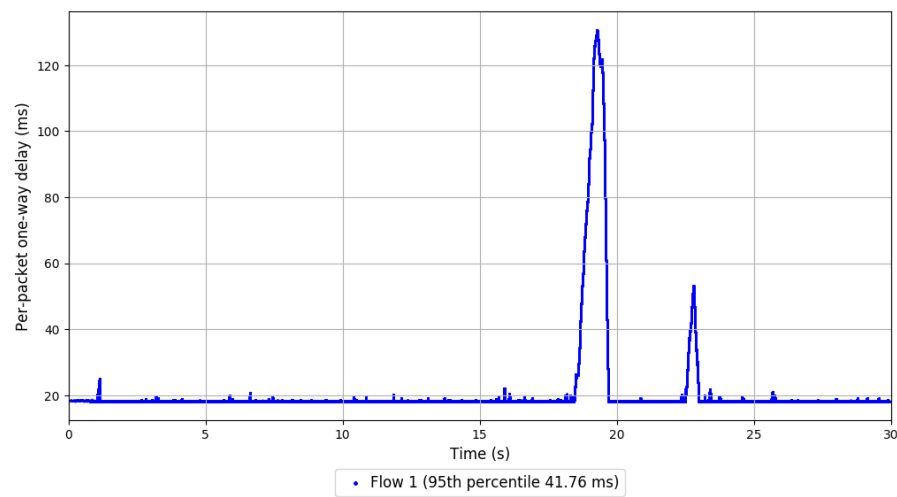
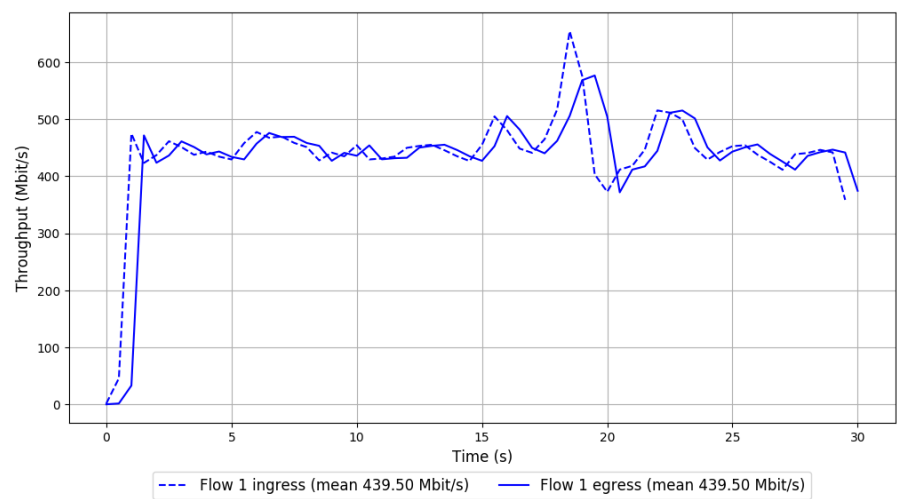
-- Flow 1:

Average throughput: 439.50 Mbit/s

95th percentile per-packet one-way delay: 41.756 ms

Loss rate: 0.00%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2018-07-24 08:38:55

End at: 2018-07-24 08:39:25

Local clock offset: 3.973 ms

Remote clock offset: 1.022 ms

Below is generated by plot.py at 2018-07-24 12:50:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 437.14 Mbit/s

95th percentile per-packet one-way delay: 25.213 ms

Loss rate: 0.17%

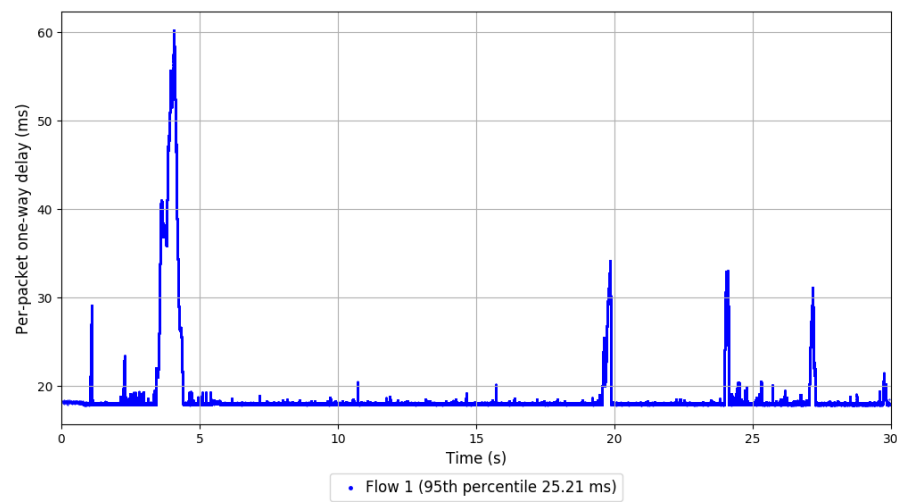
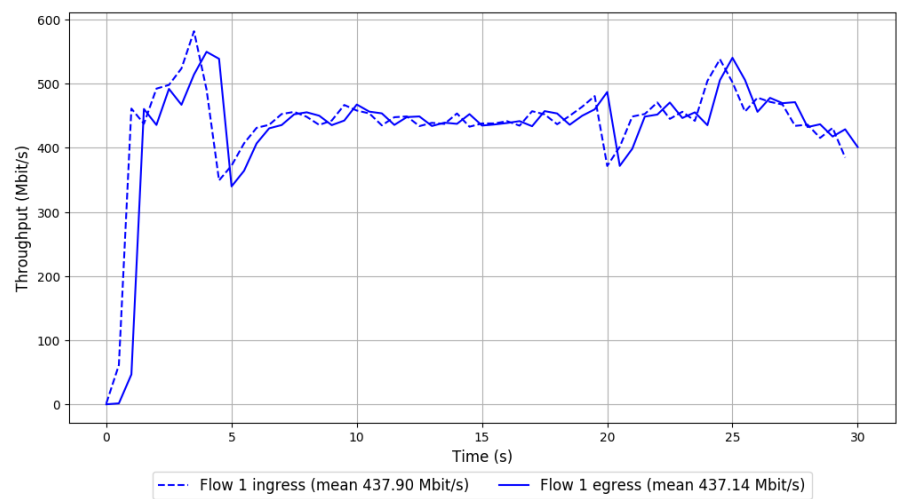
-- Flow 1:

Average throughput: 437.14 Mbit/s

95th percentile per-packet one-way delay: 25.213 ms

Loss rate: 0.17%

Run 5: Report of PCC-Vivace — Data Link



Run 6: Statistics of PCC-Vivace

Start at: 2018-07-24 09:04:10

End at: 2018-07-24 09:04:40

Local clock offset: 3.363 ms

Remote clock offset: 0.79 ms

Below is generated by plot.py at 2018-07-24 12:50:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 454.95 Mbit/s

95th percentile per-packet one-way delay: 22.239 ms

Loss rate: 0.00%

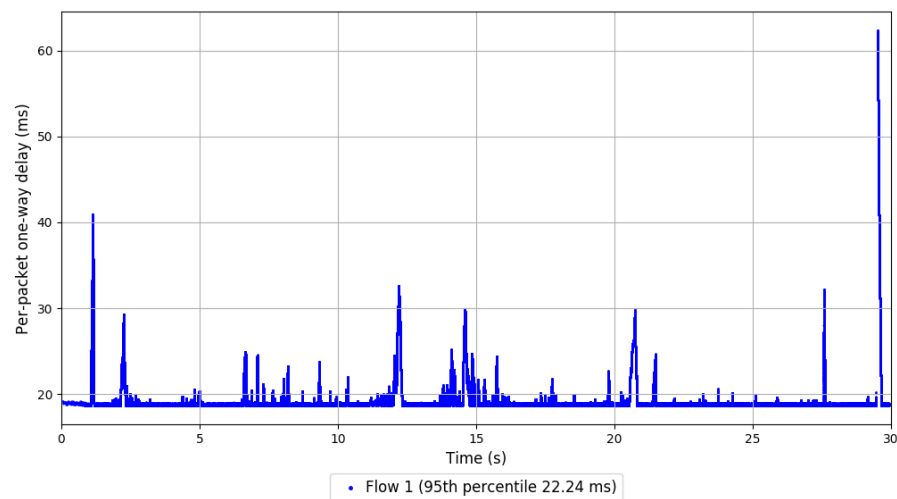
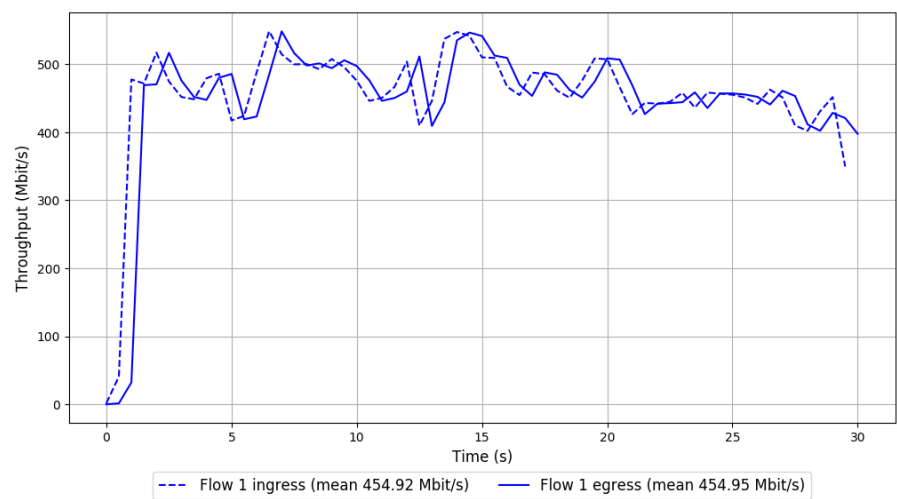
-- Flow 1:

Average throughput: 454.95 Mbit/s

95th percentile per-packet one-way delay: 22.239 ms

Loss rate: 0.00%

Run 6: Report of PCC-Vivace — Data Link



Run 7: Statistics of PCC-Vivace

Start at: 2018-07-24 09:30:01

End at: 2018-07-24 09:30:31

Local clock offset: 3.487 ms

Remote clock offset: 0.707 ms

Below is generated by plot.py at 2018-07-24 12:50:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 456.50 Mbit/s

95th percentile per-packet one-way delay: 19.614 ms

Loss rate: 0.00%

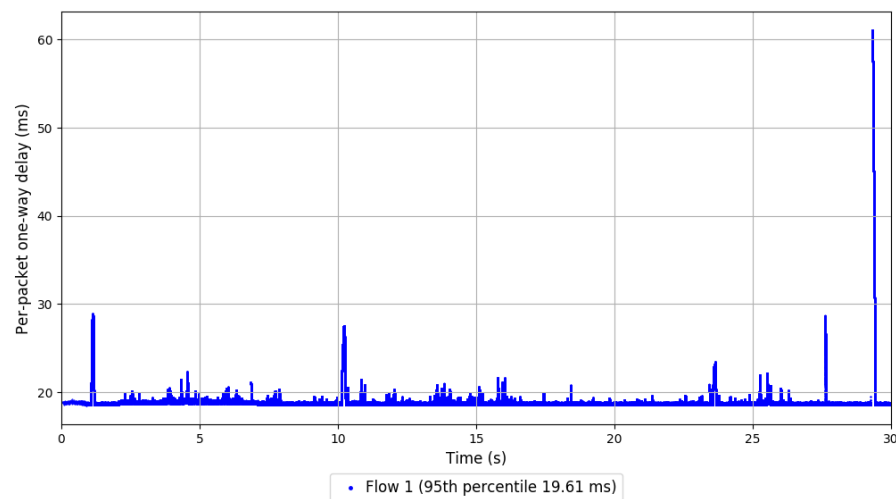
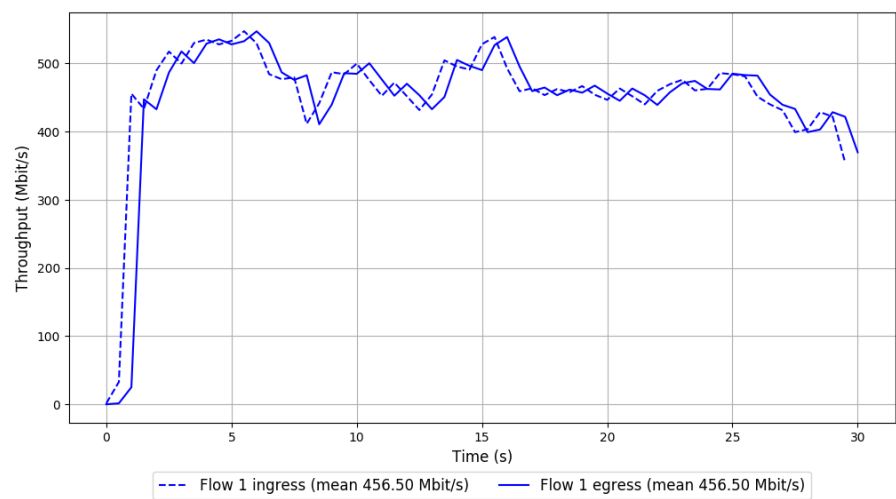
-- Flow 1:

Average throughput: 456.50 Mbit/s

95th percentile per-packet one-way delay: 19.614 ms

Loss rate: 0.00%

Run 7: Report of PCC-Vivace — Data Link



Run 8: Statistics of PCC-Vivace

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

End at: 2018-07-24 09:55:59

Local clock offset: 4.471 ms

Remote clock offset: 0.697 ms

Below is generated by plot.py at 2018-07-24 12:50:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 415.61 Mbit/s

95th percentile per-packet one-way delay: 38.397 ms

Loss rate: 0.00%

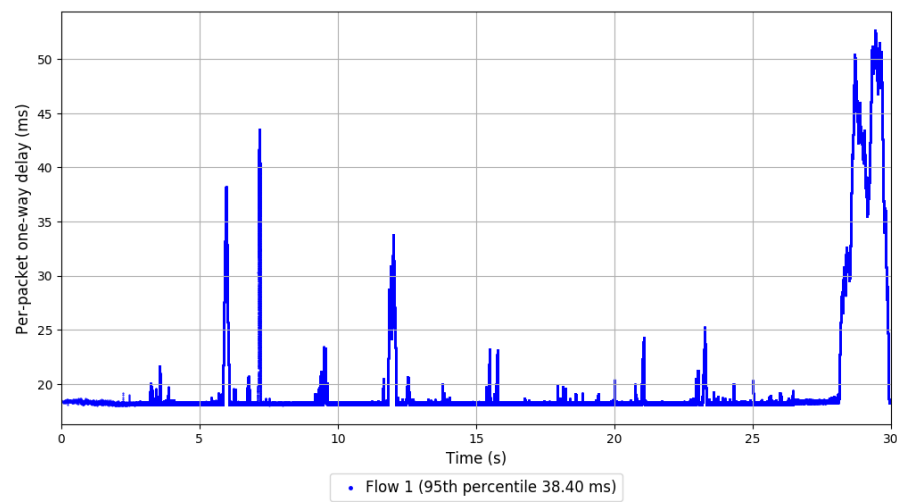
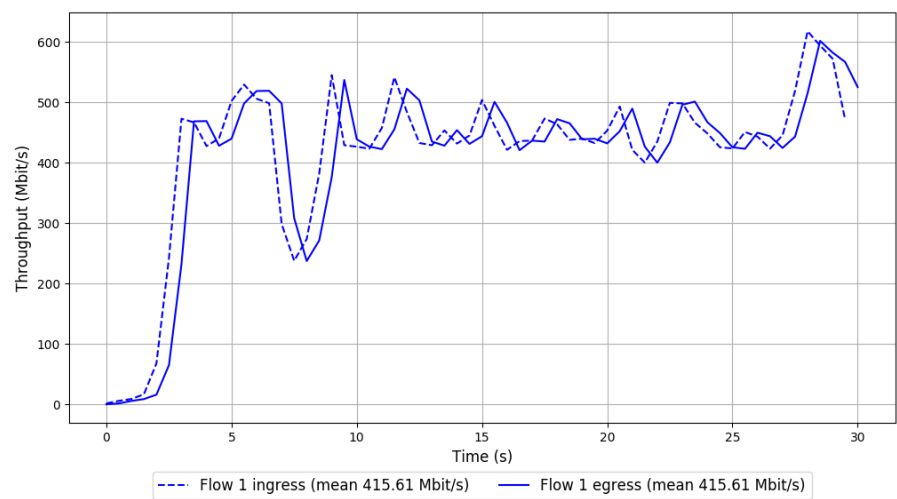
-- Flow 1:

Average throughput: 415.61 Mbit/s

95th percentile per-packet one-way delay: 38.397 ms

Loss rate: 0.00%

Run 8: Report of PCC-Vivace — Data Link



Run 9: Statistics of PCC-Vivace

Start at: 2018-07-24 10:21:06

End at: 2018-07-24 10:21:36

Local clock offset: 4.616 ms

Remote clock offset: 0.594 ms

Below is generated by plot.py at 2018-07-24 12:51:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 418.90 Mbit/s

95th percentile per-packet one-way delay: 19.612 ms

Loss rate: 0.26%

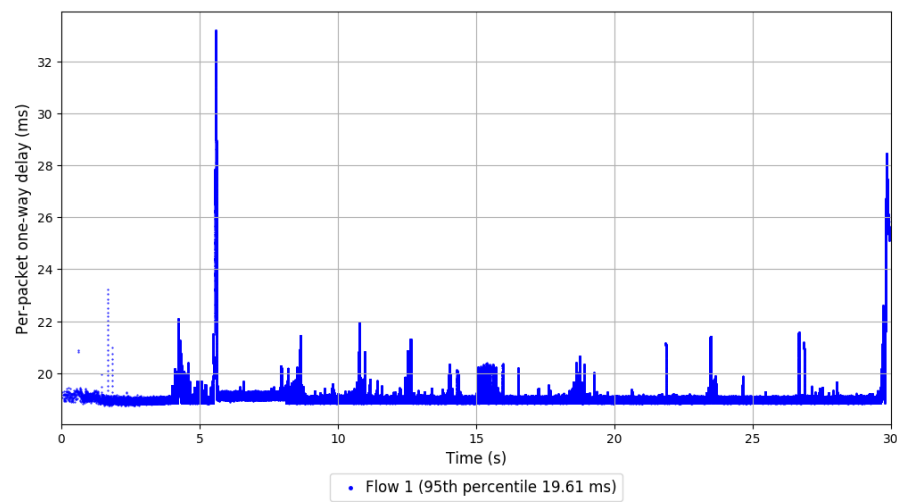
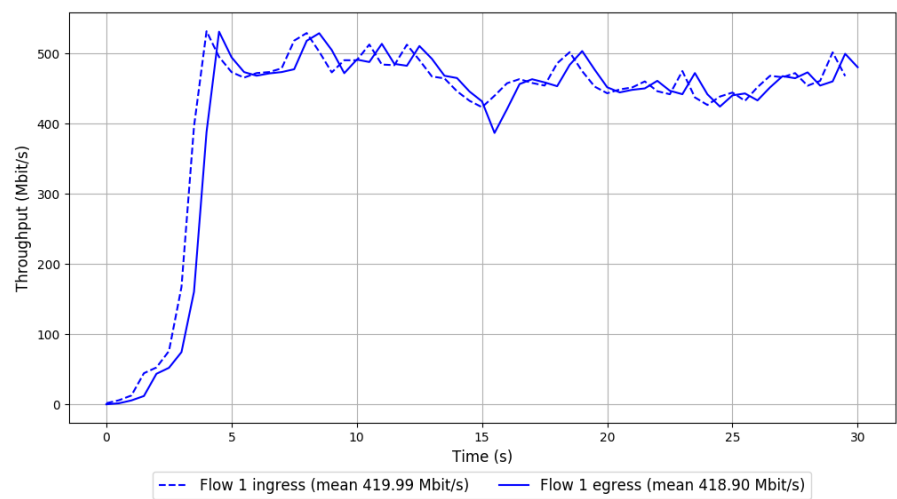
-- Flow 1:

Average throughput: 418.90 Mbit/s

95th percentile per-packet one-way delay: 19.612 ms

Loss rate: 0.26%

Run 9: Report of PCC-Vivace — Data Link



Run 10: Statistics of PCC-Vivace

Start at: 2018-07-24 10:46:54

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

Local clock offset: 4.653 ms

Remote clock offset: 0.656 ms

Below is generated by plot.py at 2018-07-24 12:51:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 455.37 Mbit/s

95th percentile per-packet one-way delay: 19.645 ms

Loss rate: 0.00%

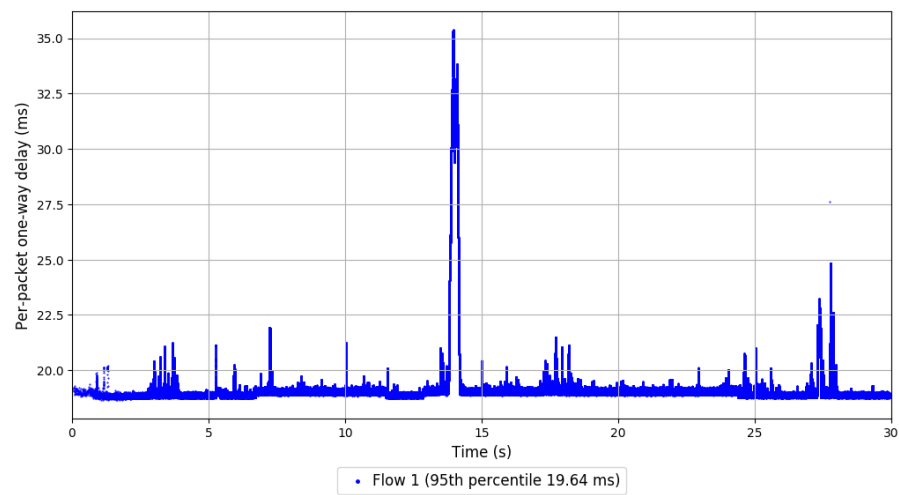
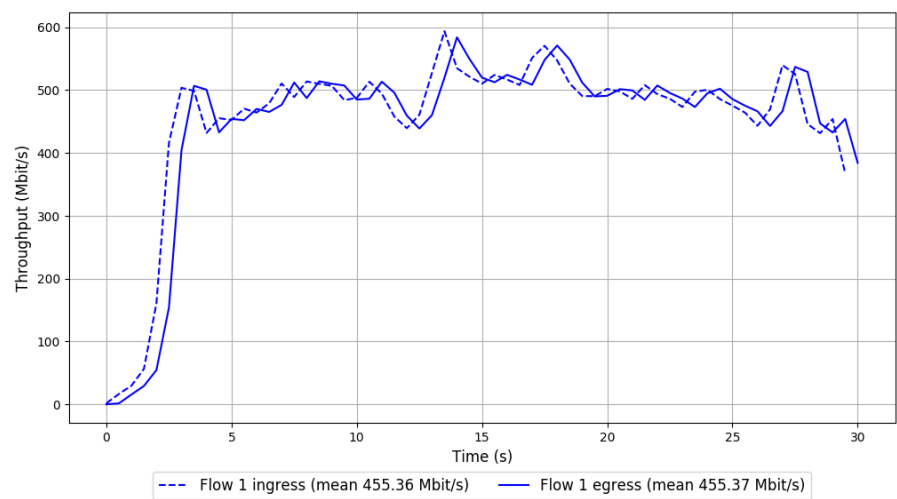
-- Flow 1:

Average throughput: 455.37 Mbit/s

95th percentile per-packet one-way delay: 19.645 ms

Loss rate: 0.00%

Run 10: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

Start at: 2018-07-24 06:45:57

End at: 2018-07-24 06:46:27

Local clock offset: 7.048 ms

Remote clock offset: 2.455 ms

Below is generated by plot.py at 2018-07-24 12:51:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 18.454 ms

Loss rate: 0.23%

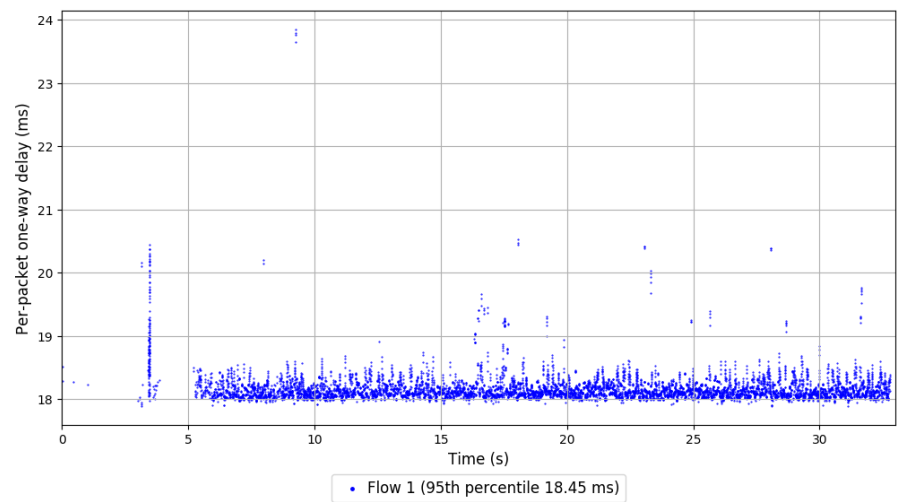
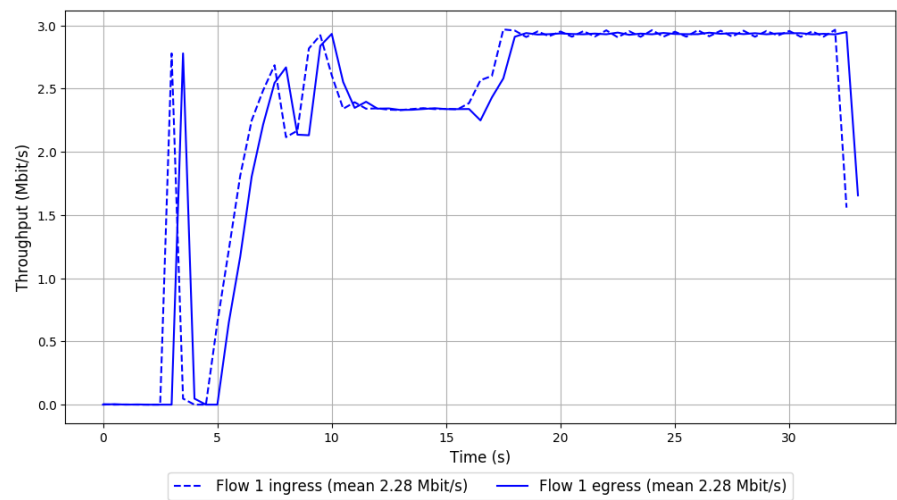
-- Flow 1:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 18.454 ms

Loss rate: 0.23%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-07-24 07:11:45

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

Local clock offset: 5.866 ms

Remote clock offset: 2.603 ms

Below is generated by plot.py at 2018-07-24 12:51:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.99 Mbit/s

95th percentile per-packet one-way delay: 19.163 ms

Loss rate: 0.02%

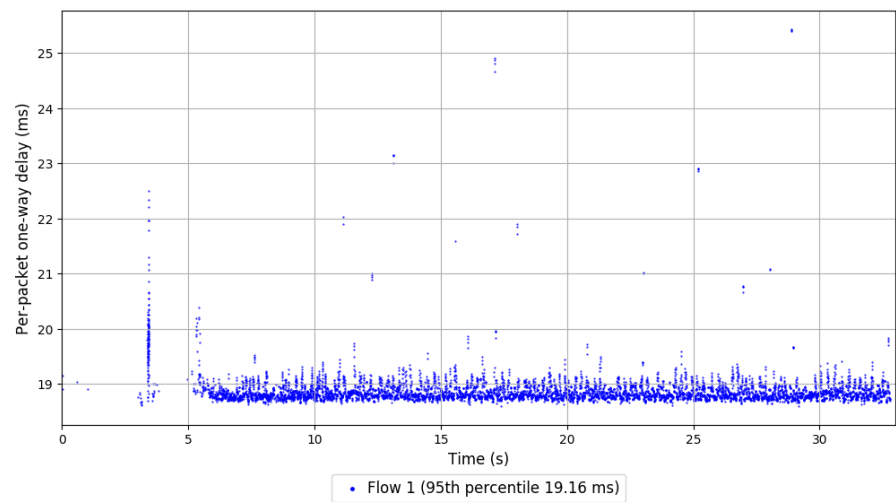
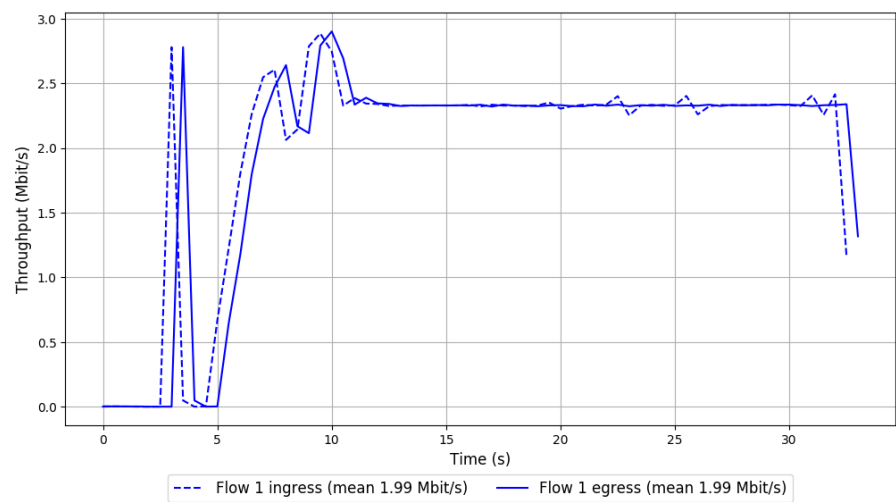
-- Flow 1:

Average throughput: 1.99 Mbit/s

95th percentile per-packet one-way delay: 19.163 ms

Loss rate: 0.02%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-07-24 07:37:15

End at: 2018-07-24 07:37:45

Local clock offset: 5.259 ms

Remote clock offset: 2.192 ms

Below is generated by plot.py at 2018-07-24 12:51:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.23 Mbit/s

95th percentile per-packet one-way delay: 19.093 ms

Loss rate: 0.27%

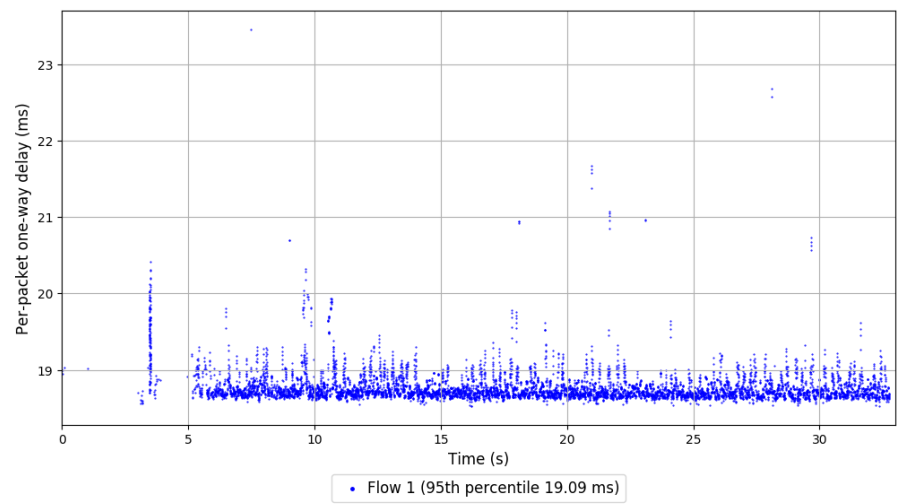
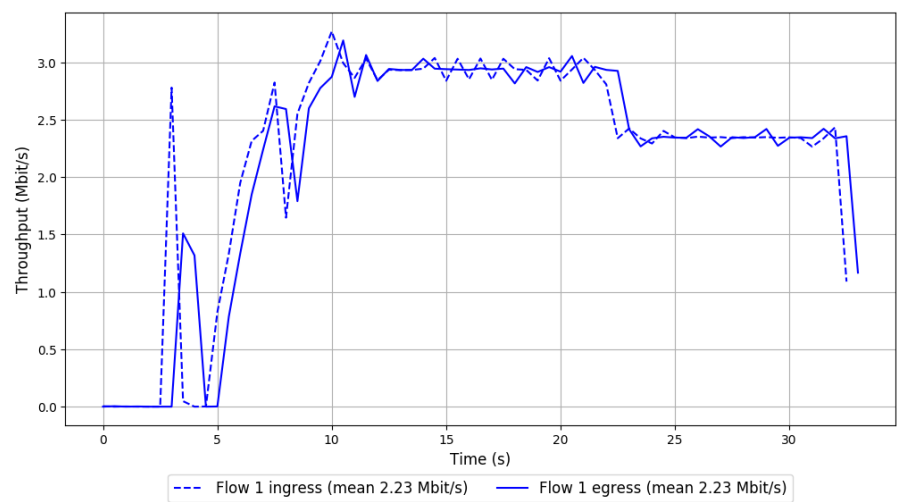
-- Flow 1:

Average throughput: 2.23 Mbit/s

95th percentile per-packet one-way delay: 19.093 ms

Loss rate: 0.27%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-07-24 08:03:01

End at: 2018-07-24 08:03:31

Local clock offset: 4.891 ms

Remote clock offset: 1.583 ms

Below is generated by plot.py at 2018-07-24 12:51:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.03 Mbit/s

95th percentile per-packet one-way delay: 19.002 ms

Loss rate: 0.00%

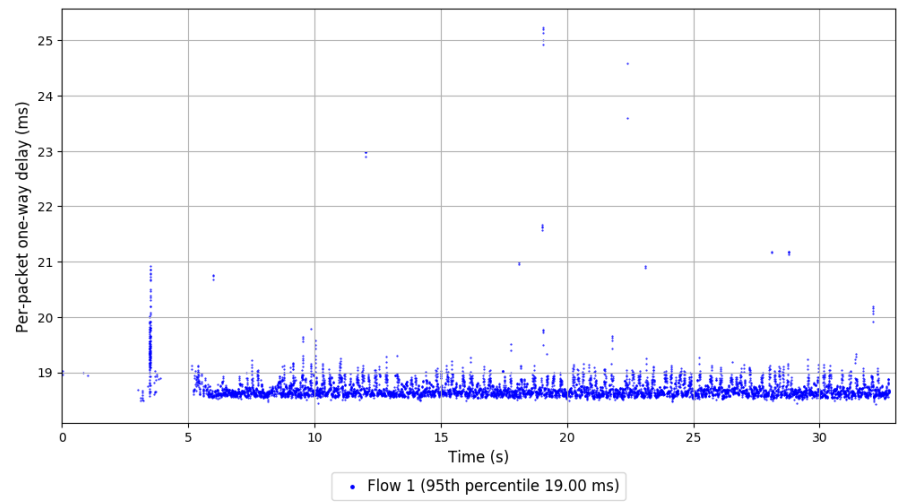
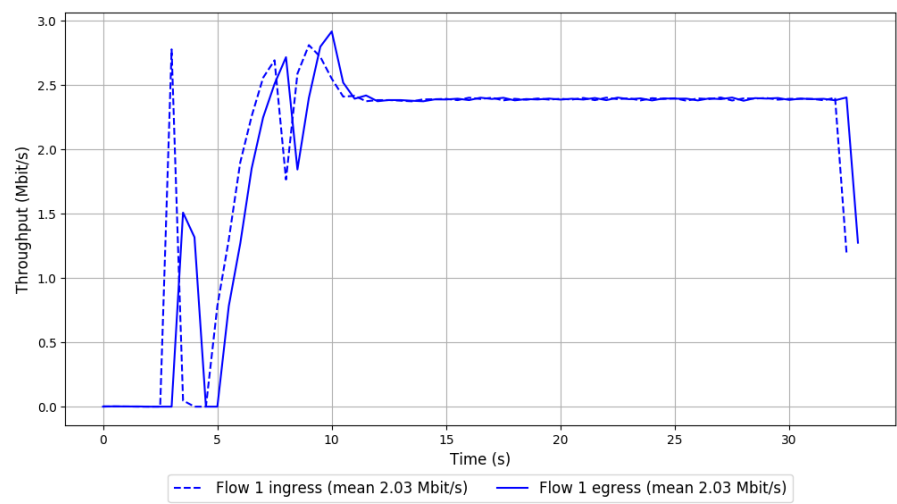
-- Flow 1:

Average throughput: 2.03 Mbit/s

95th percentile per-packet one-way delay: 19.002 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-07-24 08:28:38

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

Local clock offset: 4.595 ms

Remote clock offset: 1.128 ms

Below is generated by plot.py at 2018-07-24 12:51:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.21 Mbit/s

95th percentile per-packet one-way delay: 18.971 ms

Loss rate: 0.16%

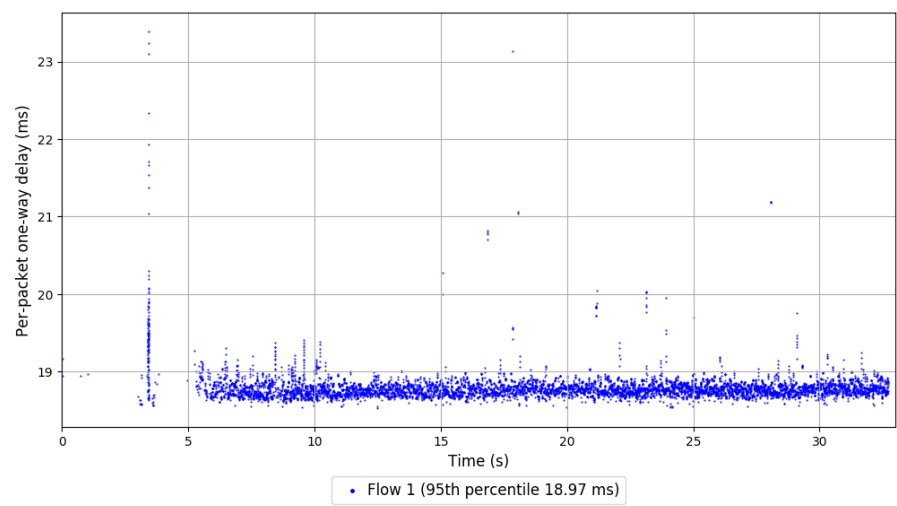
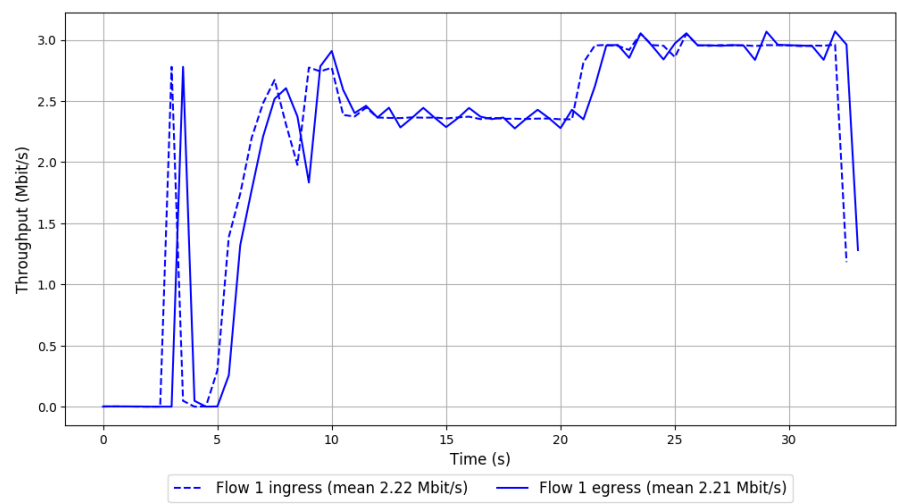
-- Flow 1:

Average throughput: 2.21 Mbit/s

95th percentile per-packet one-way delay: 18.971 ms

Loss rate: 0.16%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-07-24 08:53:52

End at: 2018-07-24 08:54:22

Local clock offset: 3.458 ms

Remote clock offset: 0.906 ms

Below is generated by plot.py at 2018-07-24 12:51:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.33 Mbit/s

95th percentile per-packet one-way delay: 19.092 ms

Loss rate: 0.10%

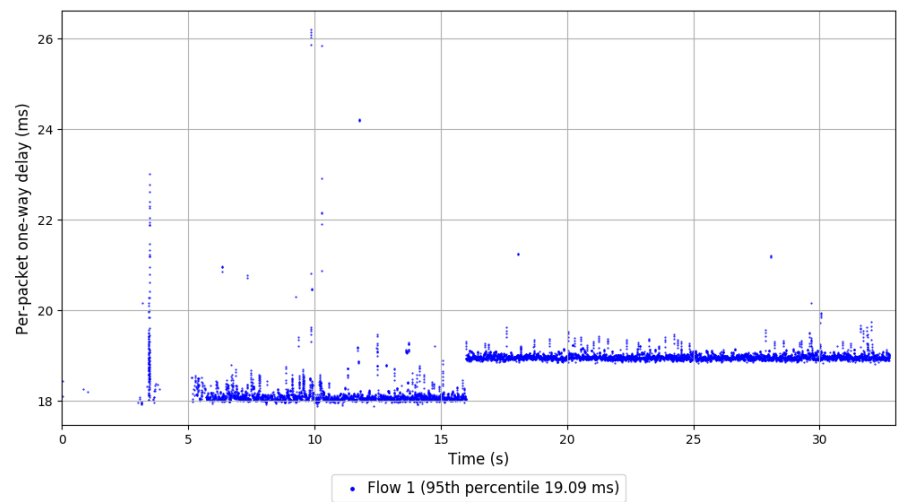
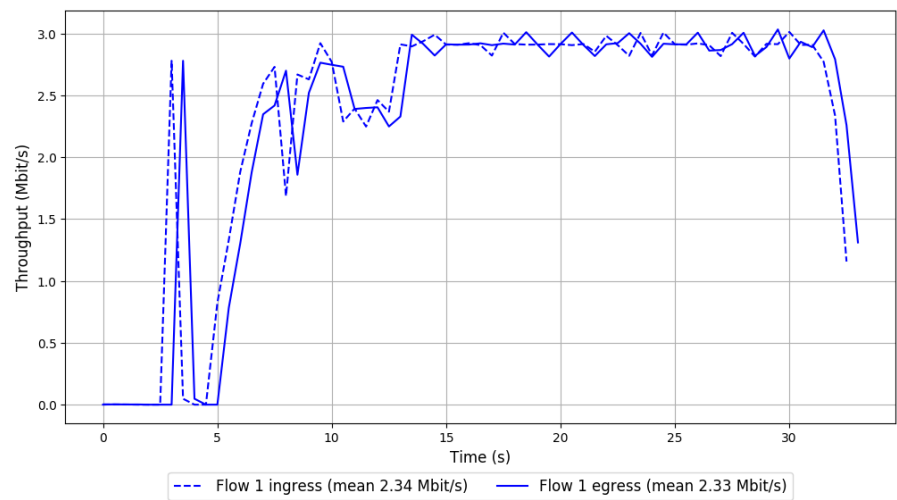
-- Flow 1:

Average throughput: 2.33 Mbit/s

95th percentile per-packet one-way delay: 19.092 ms

Loss rate: 0.10%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-07-24 09:19:41

End at: 2018-07-24 09:20:11

Local clock offset: 3.361 ms

Remote clock offset: 0.741 ms

Below is generated by plot.py at 2018-07-24 12:51:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.01 Mbit/s

95th percentile per-packet one-way delay: 19.196 ms

Loss rate: 0.00%

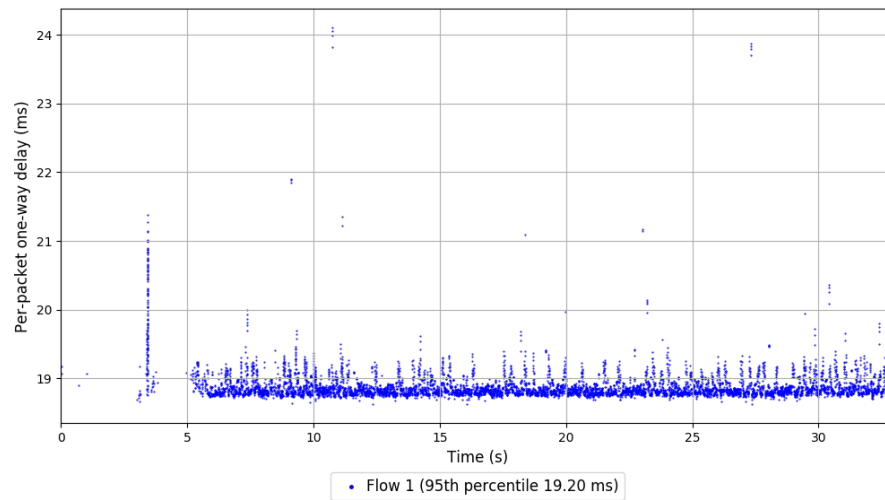
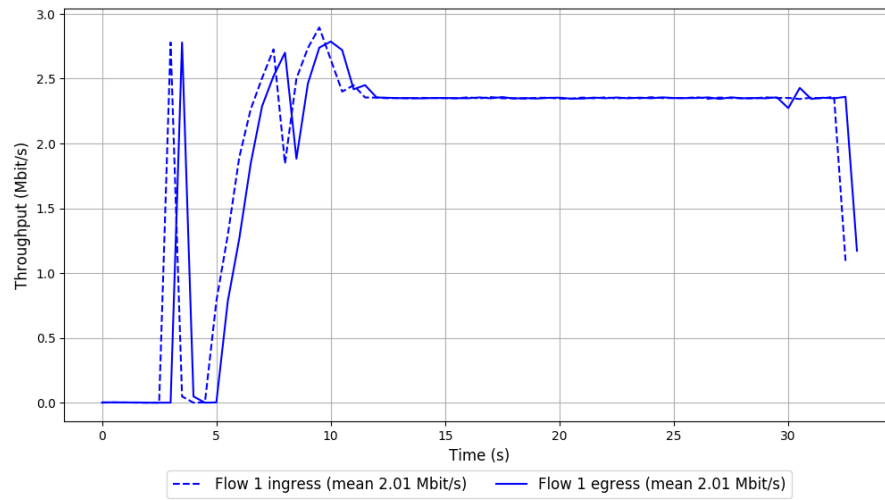
-- Flow 1:

Average throughput: 2.01 Mbit/s

95th percentile per-packet one-way delay: 19.196 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

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

End at: 2018-07-24 09:45:39

Local clock offset: 4.286 ms

Remote clock offset: 0.654 ms

Below is generated by plot.py at 2018-07-24 12:51:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.22 Mbit/s

95th percentile per-packet one-way delay: 18.453 ms

Loss rate: 0.02%

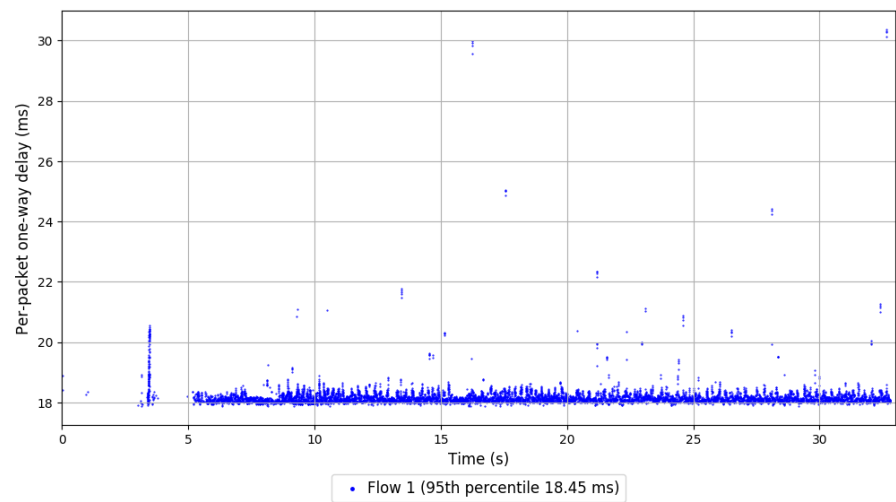
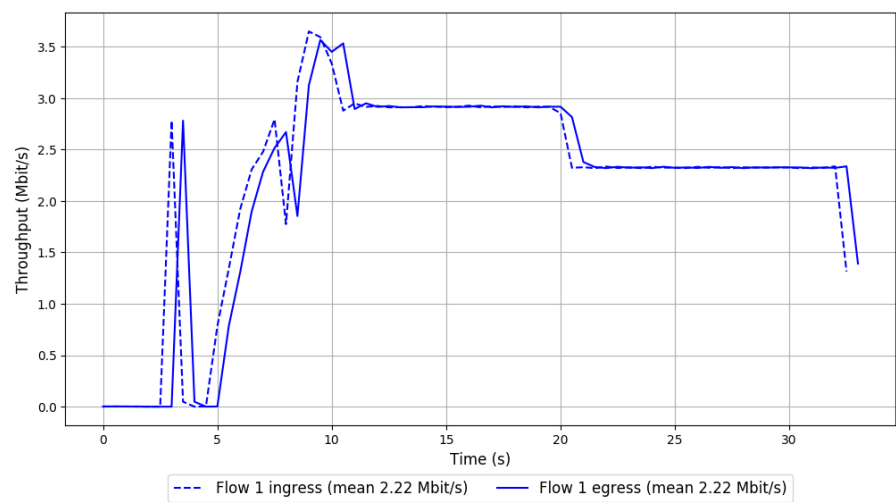
-- Flow 1:

Average throughput: 2.22 Mbit/s

95th percentile per-packet one-way delay: 18.453 ms

Loss rate: 0.02%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-07-24 10:10:51

End at: 2018-07-24 10:11:21

Local clock offset: 4.562 ms

Remote clock offset: 0.617 ms

Below is generated by plot.py at 2018-07-24 12:51:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.99 Mbit/s

95th percentile per-packet one-way delay: 18.396 ms

Loss rate: 0.00%

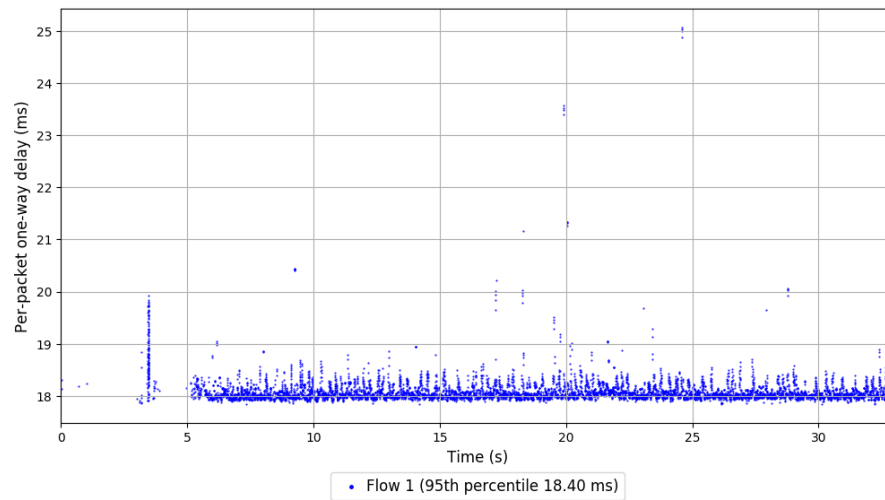
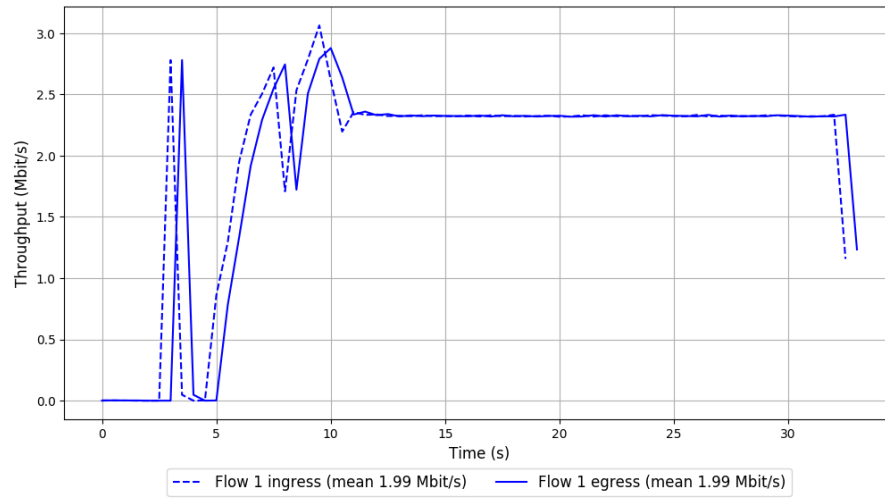
-- Flow 1:

Average throughput: 1.99 Mbit/s

95th percentile per-packet one-way delay: 18.396 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-07-24 10:36:37

End at: 2018-07-24 10:37:07

Local clock offset: 4.736 ms

Remote clock offset: 0.601 ms

Below is generated by plot.py at 2018-07-24 12:51:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.22 Mbit/s

95th percentile per-packet one-way delay: 19.343 ms

Loss rate: 0.19%

-- Flow 1:

Average throughput: 2.22 Mbit/s

95th percentile per-packet one-way delay: 19.343 ms

Loss rate: 0.19%

Run 10: Report of WebRTC media — Data Link

