

Pantheon Report

Generated at 2018-06-30 10:51:13 (UTC).

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

Repeated the test of 17 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

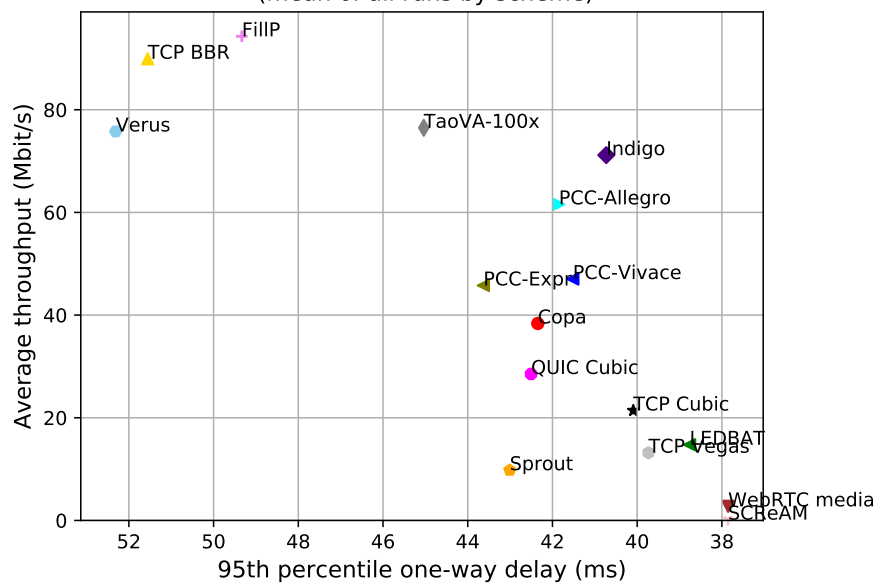
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

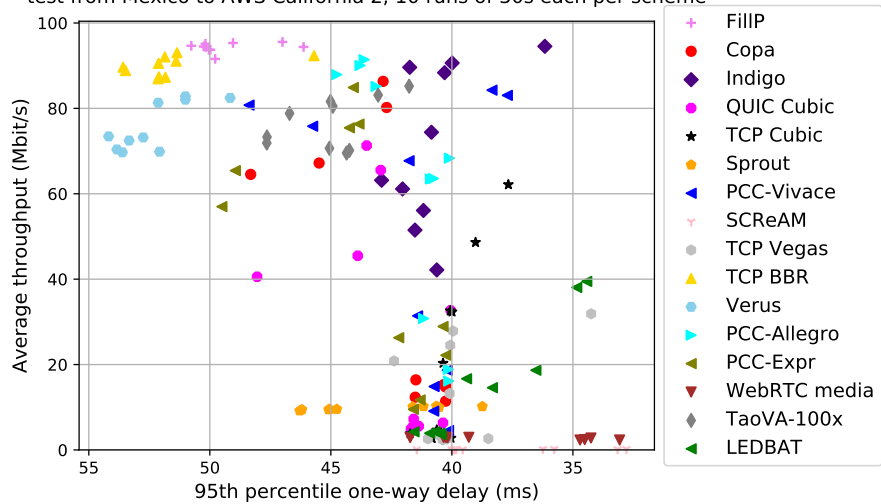
Git summary:

```
branch: master @ 715dc5f09d172e419699f6f17f1cb4c45064f212
third_party/fillp @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/fillp-sheep @ 30060ab034deb3424347f5cc3db86198eac35d2a
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ 6f038ed31259d366f9840f65b82cbe8f464b1b39
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
  M src/ScreamClient
  M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
```

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



test from Mexico to AWS California 2, 10 runs of 30s each per 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	89.92	51.56	1.53
Copa	10	38.37	42.35	0.91
TCP Cubic	10	21.41	40.09	0.67
FillP	10	94.30	49.33	1.08
FillP-Sheep	0	N/A	N/A	N/A
Indigo	10	71.16	40.73	0.84
LEDBAT	10	14.74	38.76	1.11
PCC-Allegro	10	61.57	41.85	0.87
PCC-Expr	10	45.77	43.63	0.98
QUIC Cubic	10	28.53	42.50	0.79
SCReAM	10	0.16	37.86	0.86
Sprout	10	9.79	43.01	1.17
TaoVA-100x	10	76.48	45.04	0.98
TCP Vegas	10	13.19	39.73	0.92
Verus	10	75.77	52.31	1.19
PCC-Vivace	10	47.02	41.52	0.86
WebRTC media	10	2.74	37.85	1.13

Run 1: Statistics of TCP BBR

Start at: 2018-06-30 06:49:25

End at: 2018-06-30 06:49:55

Local clock offset: 0.507 ms

Remote clock offset: 5.045 ms

Below is generated by plot.py at 2018-06-30 10:38:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.06 Mbit/s

95th percentile per-packet one-way delay: 51.391 ms

Loss rate: 1.42%

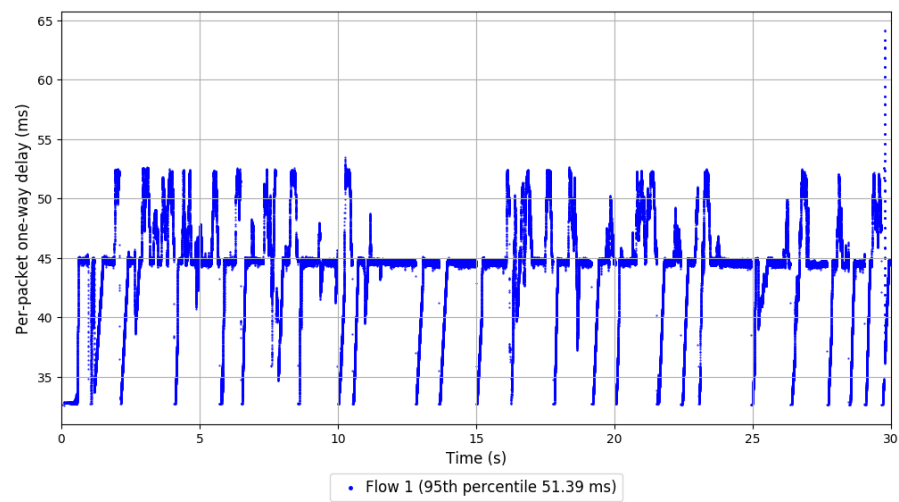
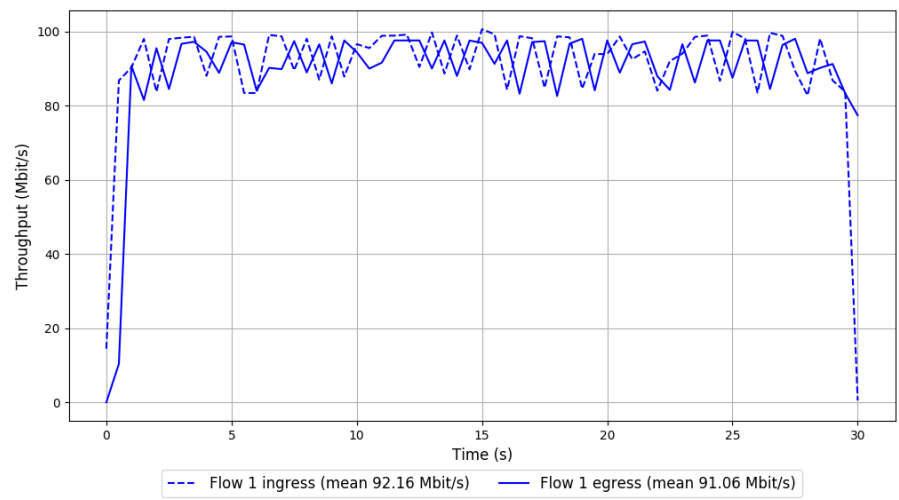
-- Flow 1:

Average throughput: 91.06 Mbit/s

95th percentile per-packet one-way delay: 51.391 ms

Loss rate: 1.42%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-06-30 07:14:19

End at: 2018-06-30 07:14:49

Local clock offset: 0.768 ms

Remote clock offset: 4.452 ms

Below is generated by plot.py at 2018-06-30 10:38:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.38 Mbit/s

95th percentile per-packet one-way delay: 52.103 ms

Loss rate: 1.59%

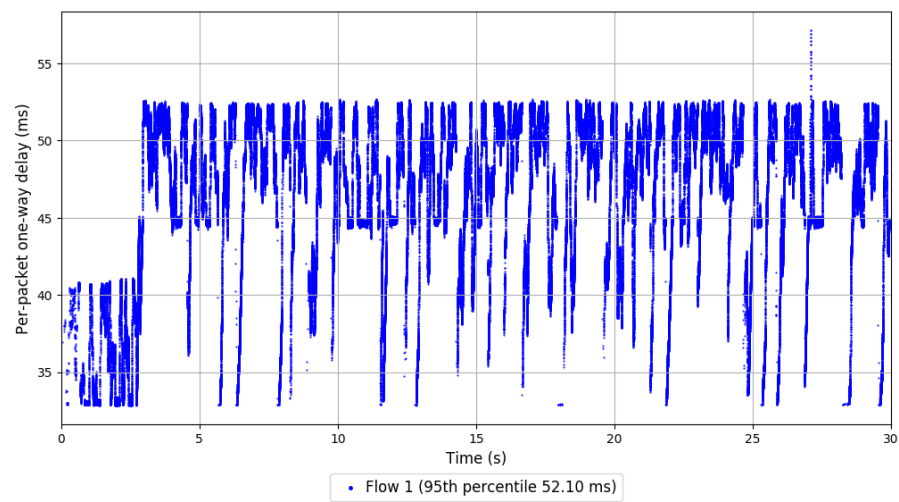
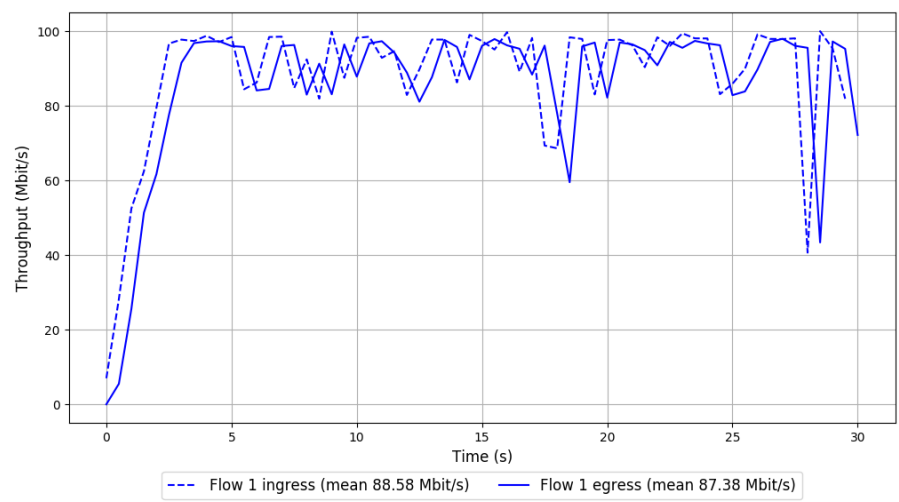
-- Flow 1:

Average throughput: 87.38 Mbit/s

95th percentile per-packet one-way delay: 52.103 ms

Loss rate: 1.59%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-06-30 07:39:49

End at: 2018-06-30 07:40:19

Local clock offset: 1.249 ms

Remote clock offset: 4.522 ms

Below is generated by plot.py at 2018-06-30 10:38:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.93 Mbit/s

95th percentile per-packet one-way delay: 52.135 ms

Loss rate: 2.31%

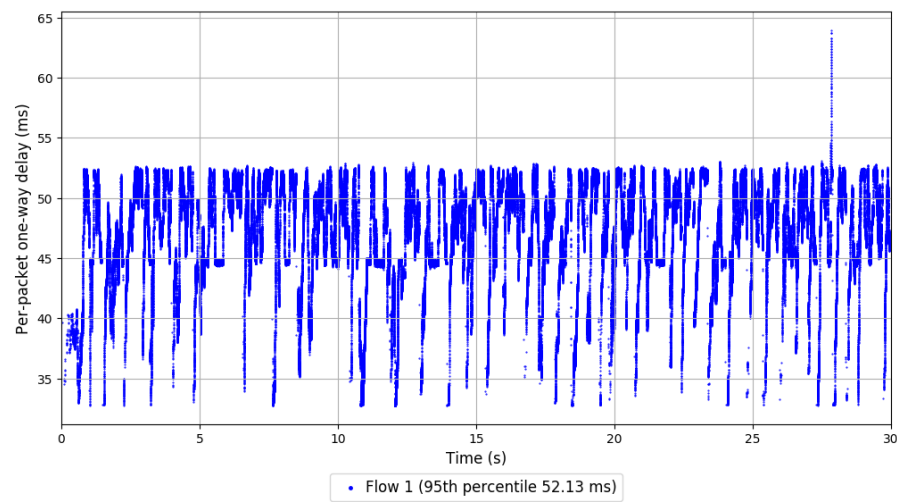
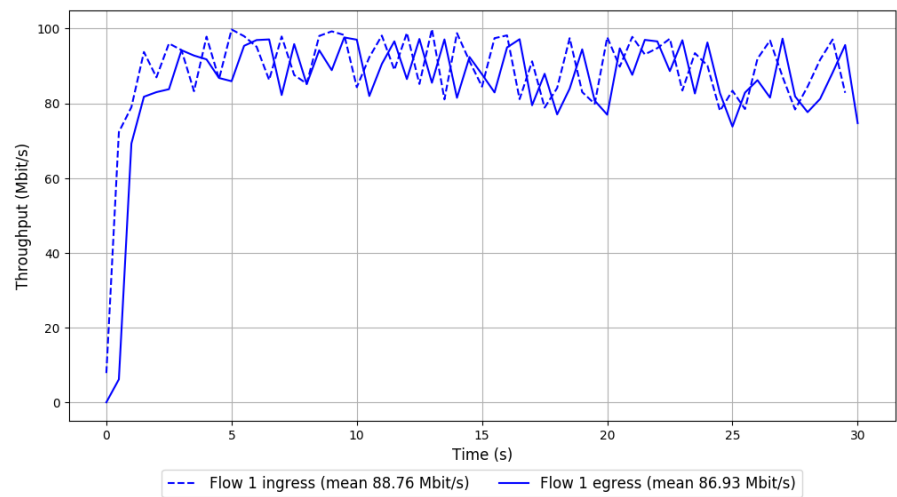
-- Flow 1:

Average throughput: 86.93 Mbit/s

95th percentile per-packet one-way delay: 52.135 ms

Loss rate: 2.31%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-06-30 08:06:09

End at: 2018-06-30 08:06:39

Local clock offset: 1.114 ms

Remote clock offset: 3.511 ms

Below is generated by plot.py at 2018-06-30 10:38:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.30 Mbit/s

95th percentile per-packet one-way delay: 51.835 ms

Loss rate: 1.83%

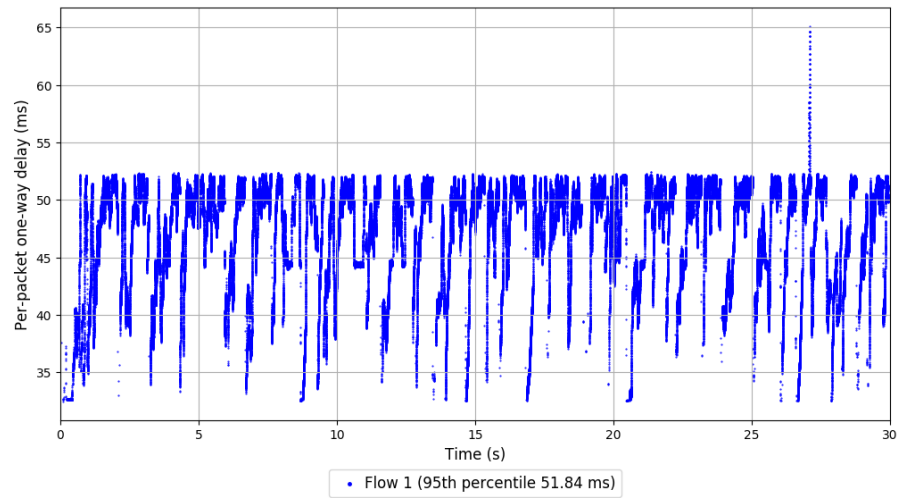
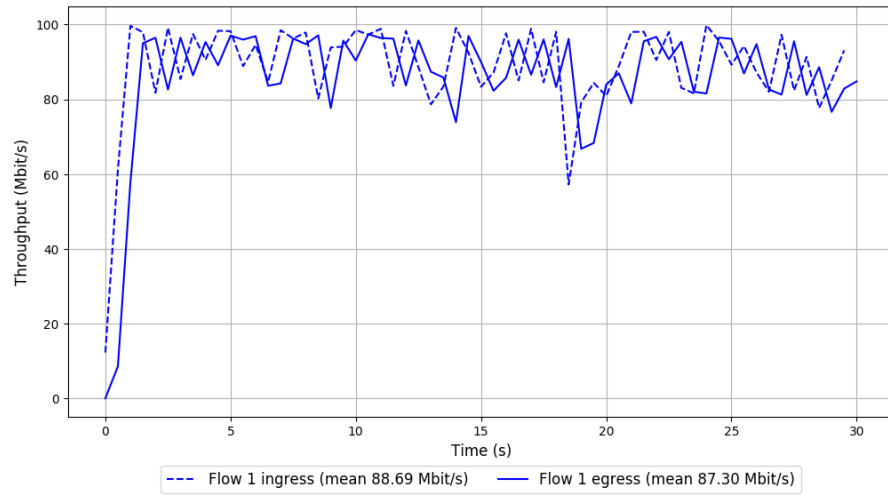
-- Flow 1:

Average throughput: 87.30 Mbit/s

95th percentile per-packet one-way delay: 51.835 ms

Loss rate: 1.83%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-06-30 08:31:42

End at: 2018-06-30 08:32:12

Local clock offset: 0.819 ms

Remote clock offset: -0.292 ms

Below is generated by plot.py at 2018-06-30 10:38:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.65 Mbit/s

95th percentile per-packet one-way delay: 53.584 ms

Loss rate: 1.44%

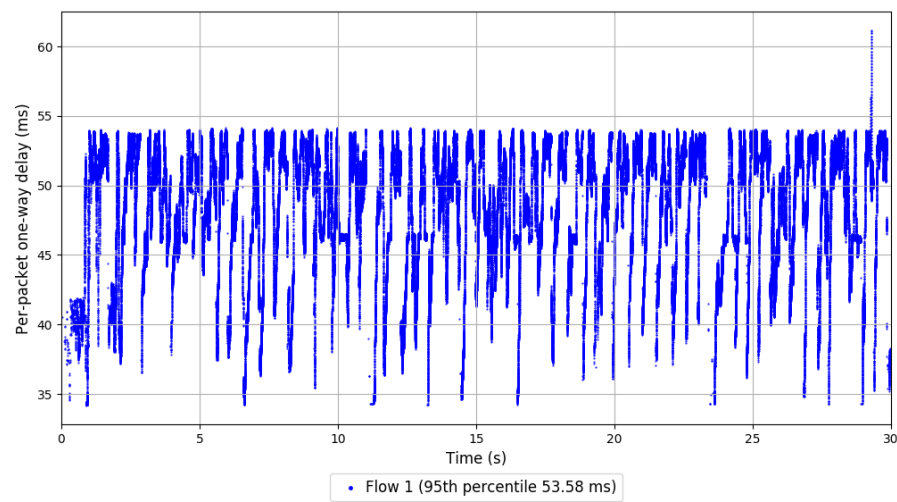
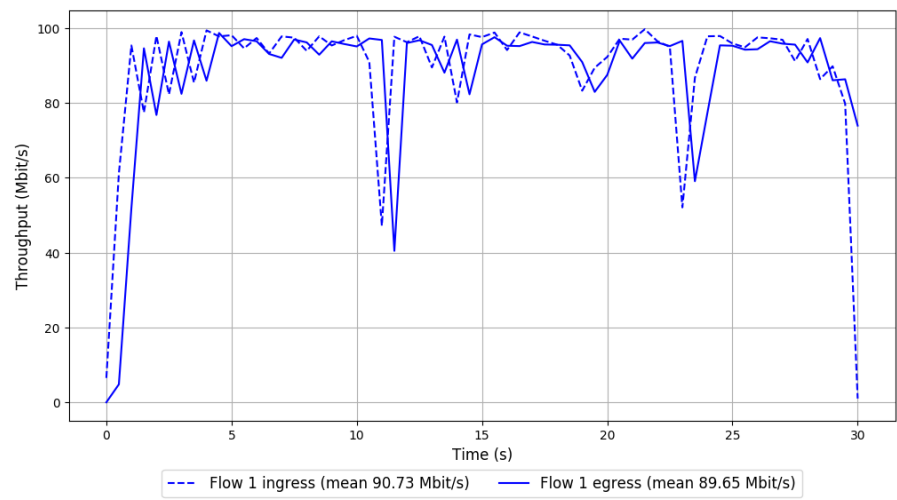
-- Flow 1:

Average throughput: 89.65 Mbit/s

95th percentile per-packet one-way delay: 53.584 ms

Loss rate: 1.44%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-06-30 08:56:42

End at: 2018-06-30 08:57:12

Local clock offset: 0.35 ms

Remote clock offset: 1.255 ms

Below is generated by plot.py at 2018-06-30 10:38:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.86 Mbit/s

95th percentile per-packet one-way delay: 53.482 ms

Loss rate: 1.67%

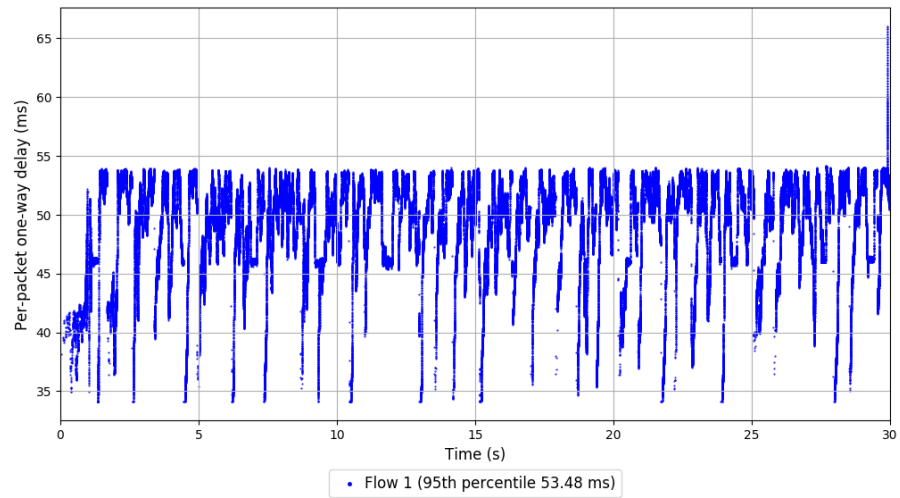
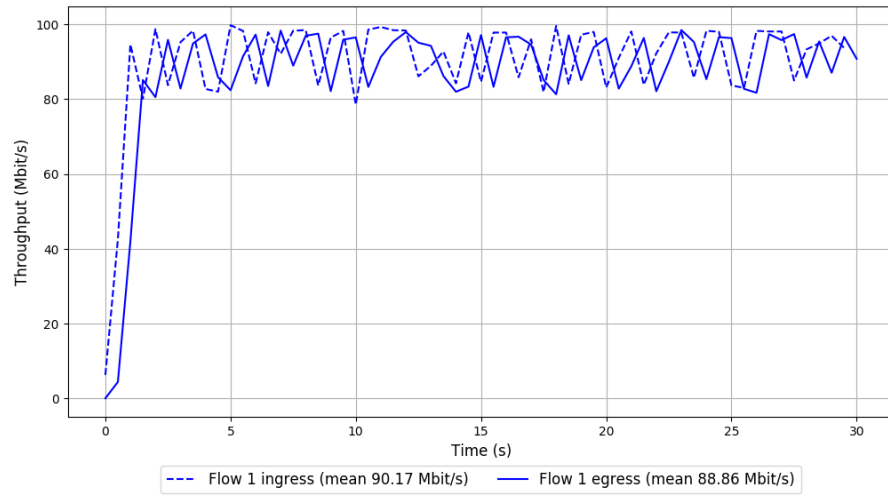
-- Flow 1:

Average throughput: 88.86 Mbit/s

95th percentile per-packet one-way delay: 53.482 ms

Loss rate: 1.67%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-06-30 09:22:07

End at: 2018-06-30 09:22:37

Local clock offset: 0.282 ms

Remote clock offset: 2.335 ms

Below is generated by plot.py at 2018-06-30 10:38:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.55 Mbit/s

95th percentile per-packet one-way delay: 52.119 ms

Loss rate: 1.39%

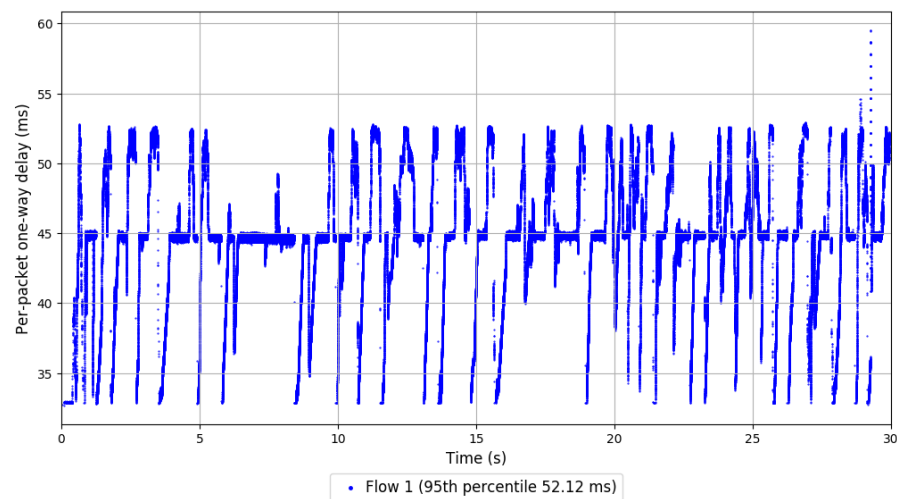
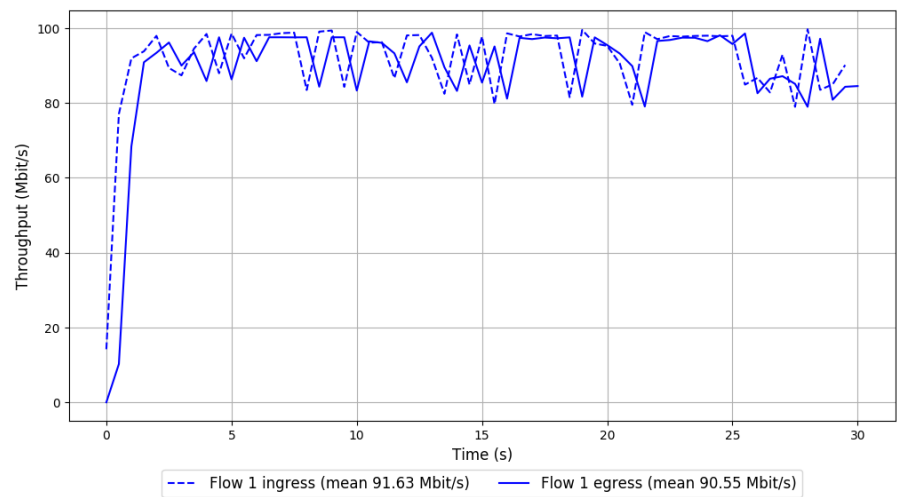
-- Flow 1:

Average throughput: 90.55 Mbit/s

95th percentile per-packet one-way delay: 52.119 ms

Loss rate: 1.39%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-06-30 09:45:13

End at: 2018-06-30 09:45:43

Local clock offset: 0.148 ms

Remote clock offset: 4.498 ms

Below is generated by plot.py at 2018-06-30 10:38:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.06 Mbit/s

95th percentile per-packet one-way delay: 51.858 ms

Loss rate: 1.10%

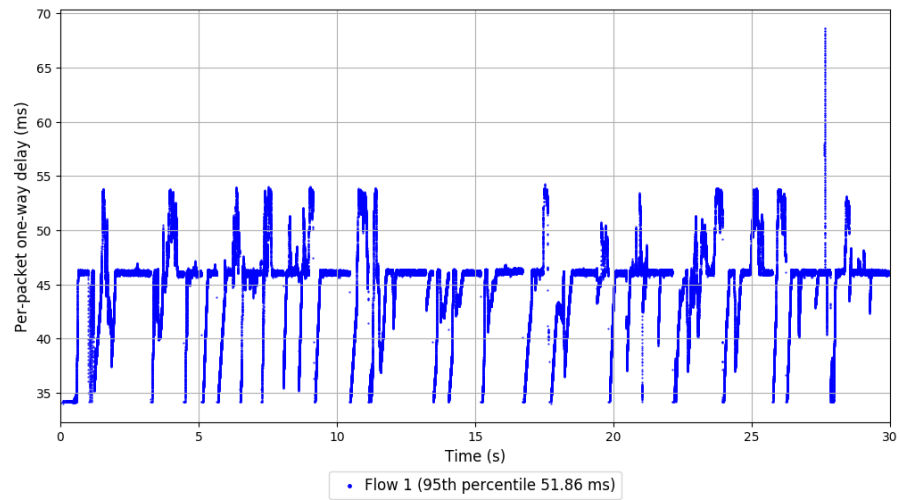
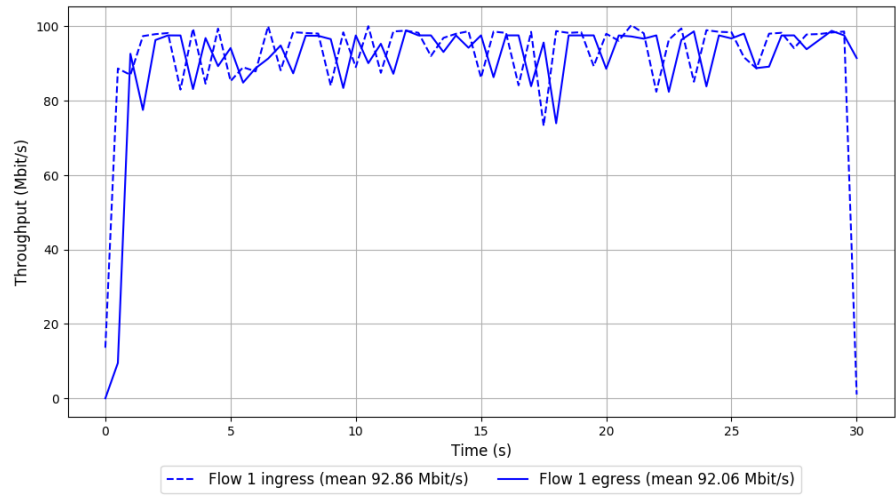
-- Flow 1:

Average throughput: 92.06 Mbit/s

95th percentile per-packet one-way delay: 51.858 ms

Loss rate: 1.10%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-06-30 10:07:54

End at: 2018-06-30 10:08:24

Local clock offset: 0.177 ms

Remote clock offset: 7.057 ms

Below is generated by plot.py at 2018-06-30 10:39:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.34 Mbit/s

95th percentile per-packet one-way delay: 45.694 ms

Loss rate: 1.19%

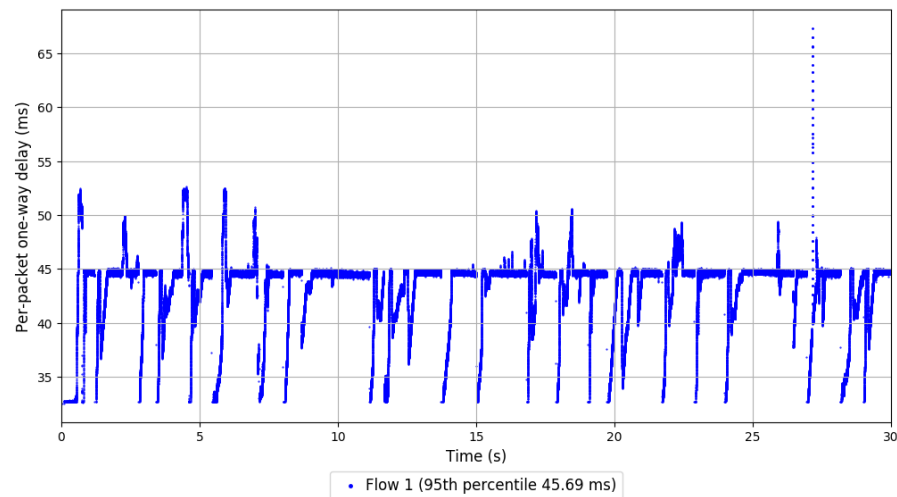
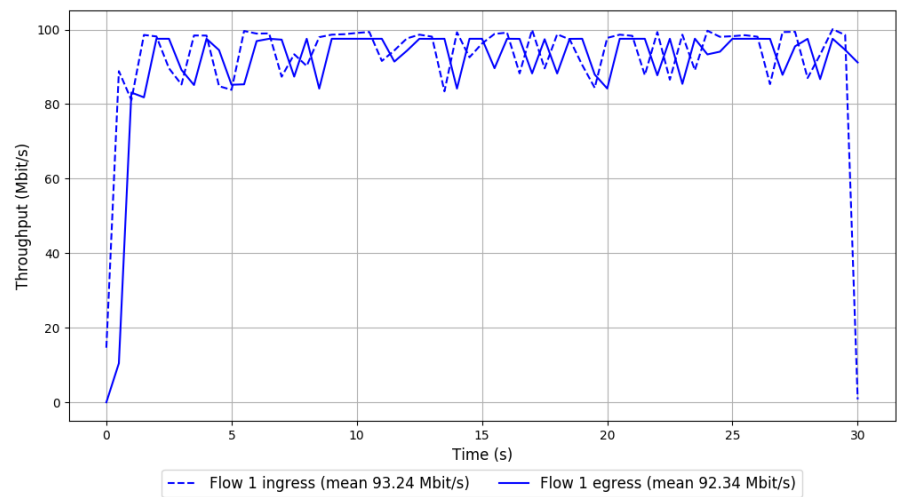
-- Flow 1:

Average throughput: 92.34 Mbit/s

95th percentile per-packet one-way delay: 45.694 ms

Loss rate: 1.19%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-06-30 10:30:55

End at: 2018-06-30 10:31:25

Local clock offset: 0.223 ms

Remote clock offset: 4.639 ms

Below is generated by plot.py at 2018-06-30 10:39:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.05 Mbit/s

95th percentile per-packet one-way delay: 51.355 ms

Loss rate: 1.35%

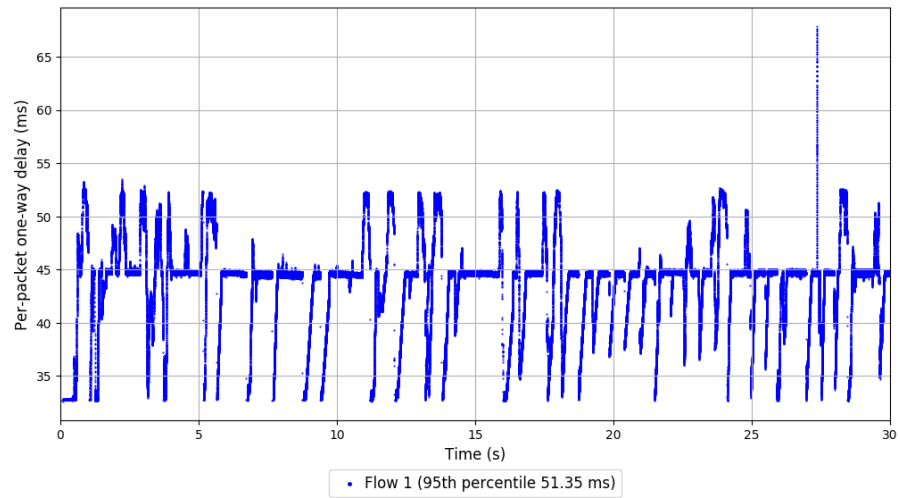
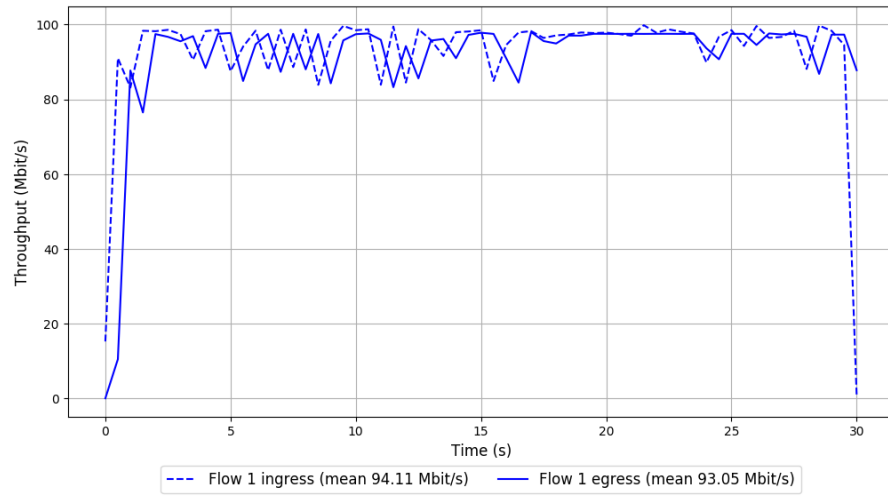
-- Flow 1:

Average throughput: 93.05 Mbit/s

95th percentile per-packet one-way delay: 51.355 ms

Loss rate: 1.35%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2018-06-30 06:40:07

End at: 2018-06-30 06:40:37

Local clock offset: 0.473 ms

Remote clock offset: 4.713 ms

Below is generated by plot.py at 2018-06-30 10:39:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 67.20 Mbit/s

95th percentile per-packet one-way delay: 45.485 ms

Loss rate: 0.43%

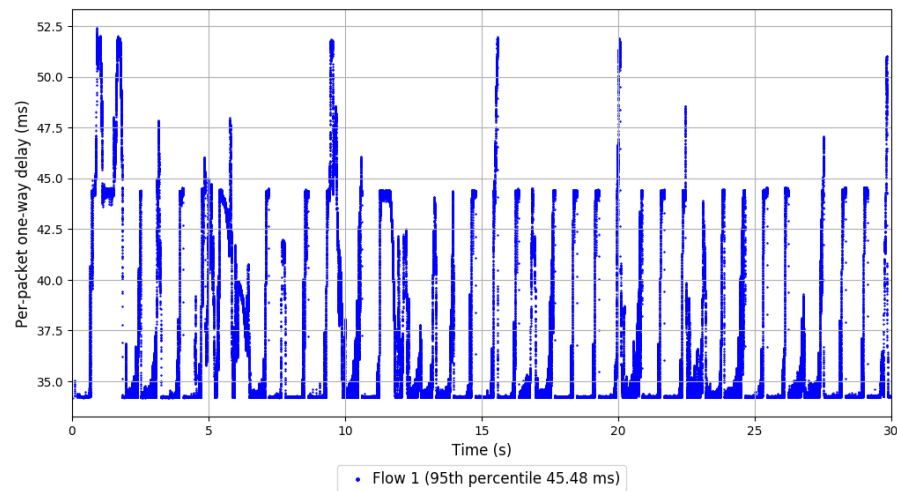
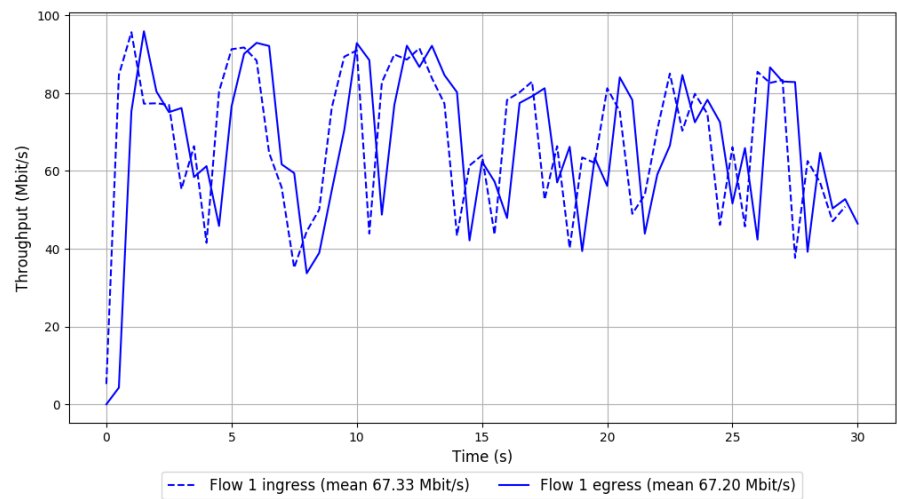
-- Flow 1:

Average throughput: 67.20 Mbit/s

95th percentile per-packet one-way delay: 45.485 ms

Loss rate: 0.43%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-06-30 07:03:33

End at: 2018-06-30 07:04:03

Local clock offset: 0.796 ms

Remote clock offset: 4.368 ms

Below is generated by plot.py at 2018-06-30 10:39:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 15.30 Mbit/s

95th percentile per-packet one-way delay: 40.335 ms

Loss rate: 1.21%

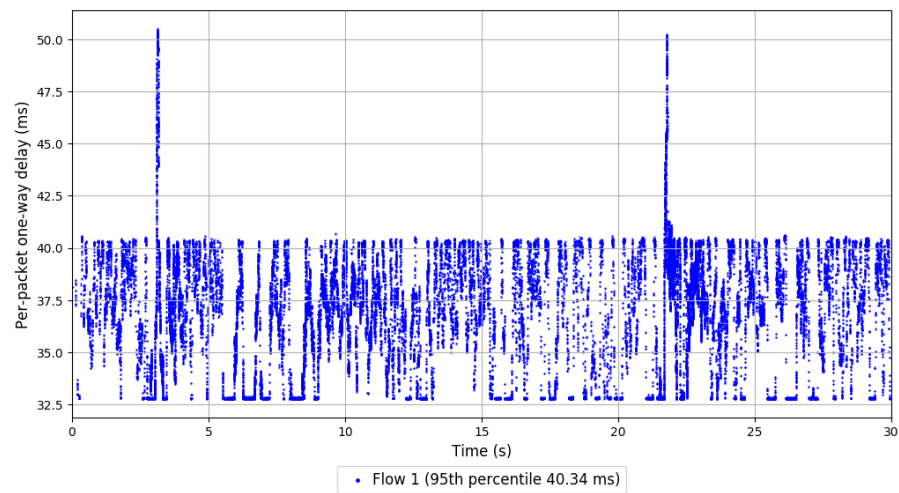
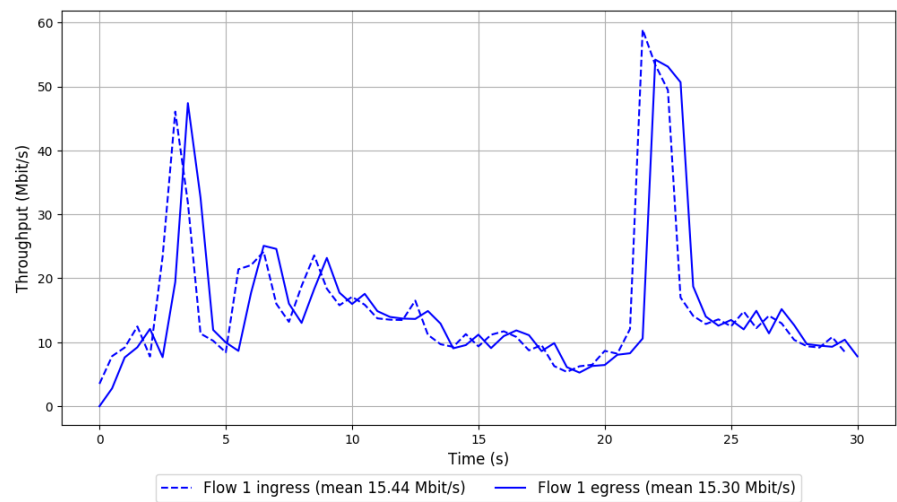
-- Flow 1:

Average throughput: 15.30 Mbit/s

95th percentile per-packet one-way delay: 40.335 ms

Loss rate: 1.21%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-06-30 07:28:54

End at: 2018-06-30 07:29:24

Local clock offset: 1.197 ms

Remote clock offset: 4.531 ms

Below is generated by plot.py at 2018-06-30 10:39:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 15.15 Mbit/s

95th percentile per-packet one-way delay: 40.269 ms

Loss rate: 1.27%

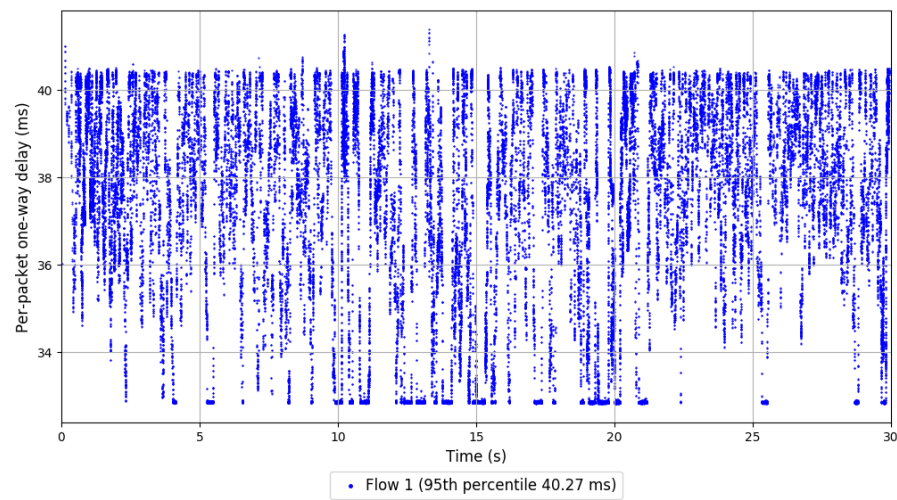
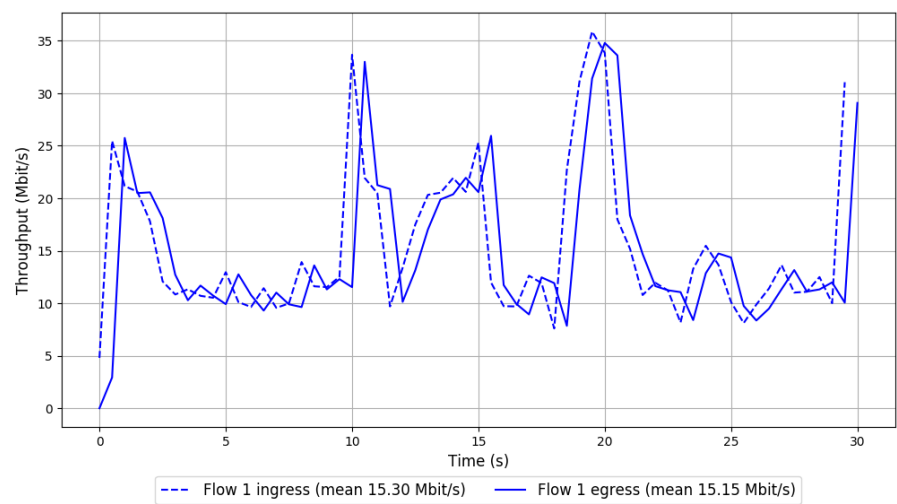
-- Flow 1:

Average throughput: 15.15 Mbit/s

95th percentile per-packet one-way delay: 40.269 ms

Loss rate: 1.27%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-06-30 07:54:54

End at: 2018-06-30 07:55:24

Local clock offset: 1.077 ms

Remote clock offset: 4.72 ms

Below is generated by plot.py at 2018-06-30 10:39:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.36 Mbit/s

95th percentile per-packet one-way delay: 41.514 ms

Loss rate: 1.03%

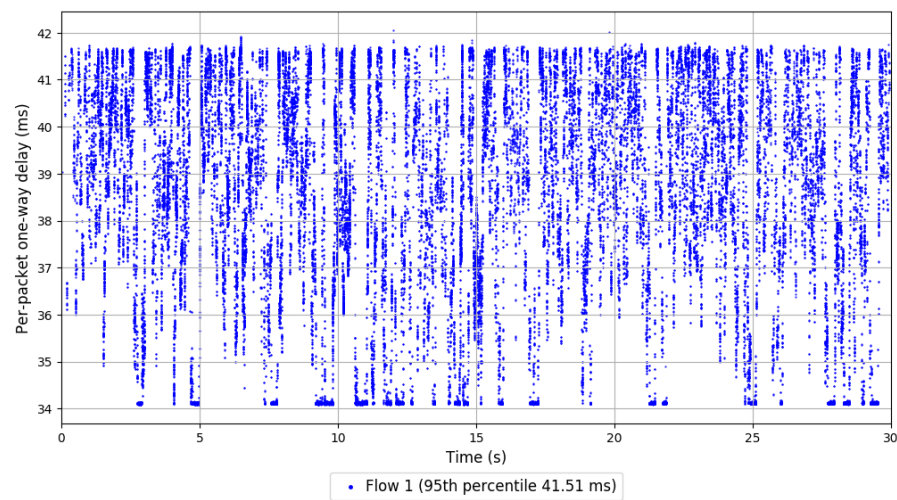
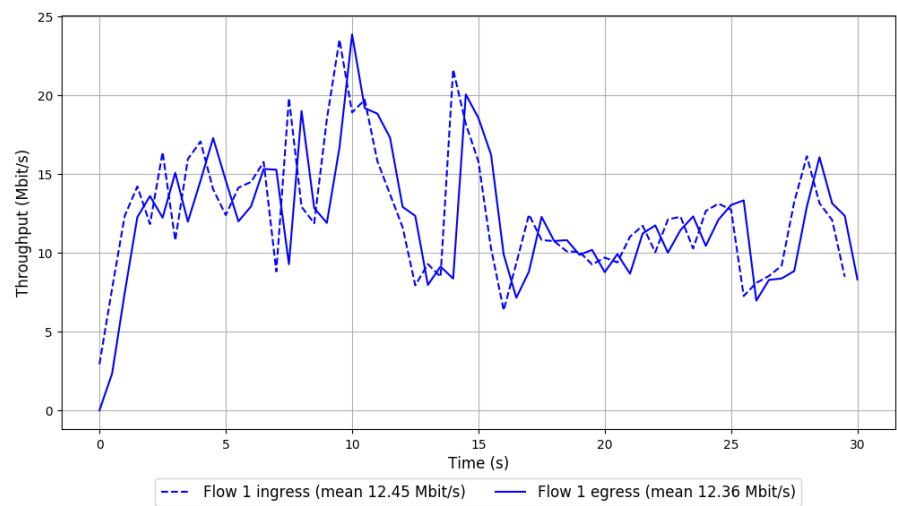
-- Flow 1:

Average throughput: 12.36 Mbit/s

95th percentile per-packet one-way delay: 41.514 ms

Loss rate: 1.03%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-06-30 08:20:48

End at: 2018-06-30 08:21:18

Local clock offset: 0.965 ms

Remote clock offset: 0.255 ms

Below is generated by plot.py at 2018-06-30 10:39:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 16.42 Mbit/s

95th percentile per-packet one-way delay: 41.488 ms

Loss rate: 1.18%

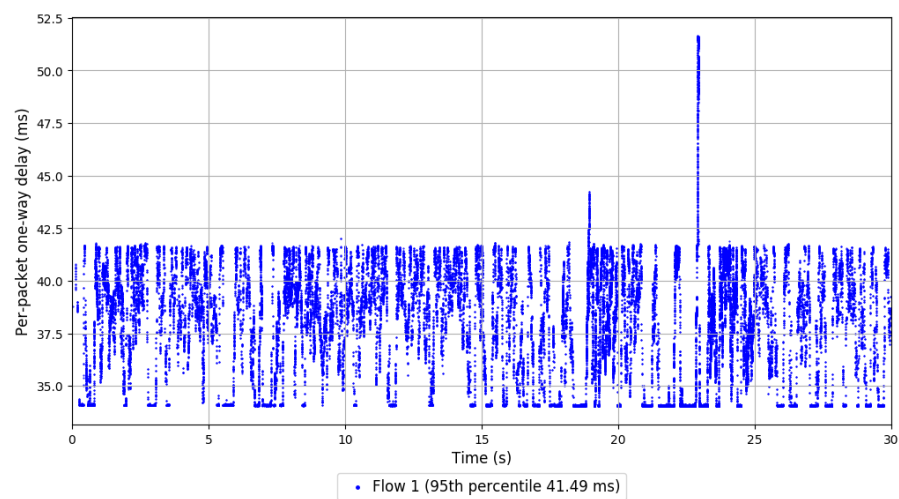
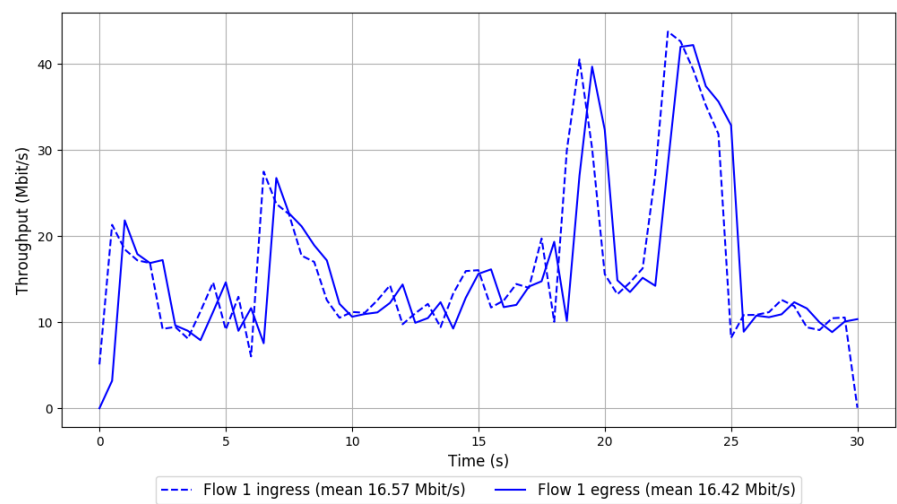
-- Flow 1:

Average throughput: 16.42 Mbit/s

95th percentile per-packet one-way delay: 41.488 ms

Loss rate: 1.18%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-06-30 08:46:20

End at: 2018-06-30 08:46:50

Local clock offset: 0.601 ms

Remote clock offset: 0.788 ms

Below is generated by plot.py at 2018-06-30 10:39:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 14.77 Mbit/s

95th percentile per-packet one-way delay: 40.267 ms

Loss rate: 1.15%

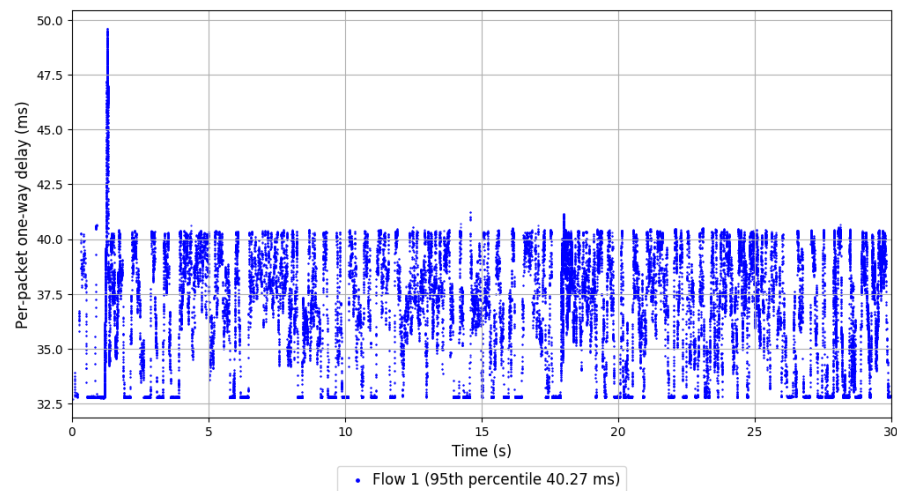
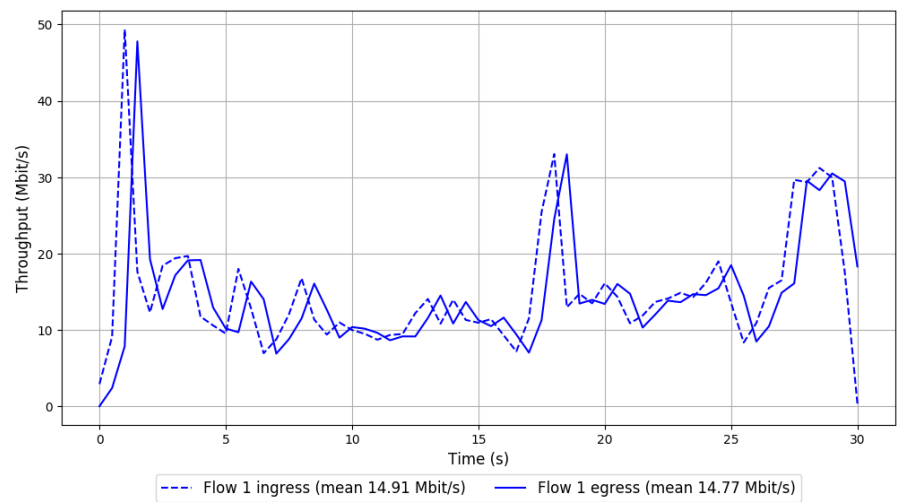
-- Flow 1:

Average throughput: 14.77 Mbit/s

95th percentile per-packet one-way delay: 40.267 ms

Loss rate: 1.15%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-06-30 09:11:27

End at: 2018-06-30 09:11:57

Local clock offset: 0.252 ms

Remote clock offset: 1.666 ms

Below is generated by plot.py at 2018-06-30 10:39:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.42 Mbit/s

95th percentile per-packet one-way delay: 40.258 ms

Loss rate: 1.25%

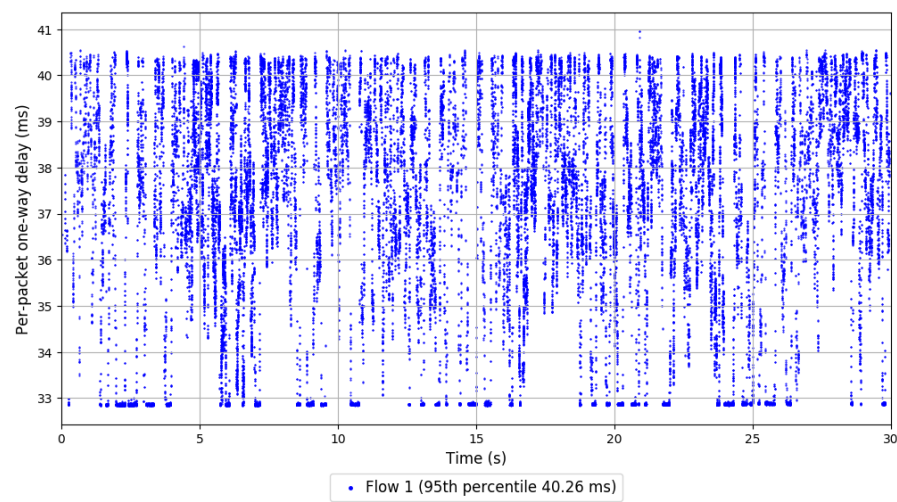
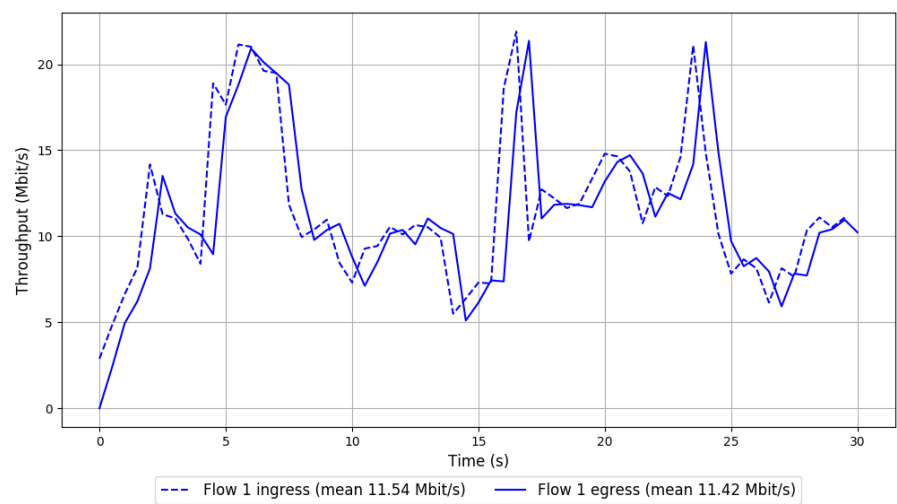
-- Flow 1:

Average throughput: 11.42 Mbit/s

95th percentile per-packet one-way delay: 40.258 ms

Loss rate: 1.25%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-06-30 09:35:31

End at: 2018-06-30 09:36:01

Local clock offset: 0.194 ms

Remote clock offset: 3.547 ms

Below is generated by plot.py at 2018-06-30 10:40:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.54 Mbit/s

95th percentile per-packet one-way delay: 48.312 ms

Loss rate: 0.93%

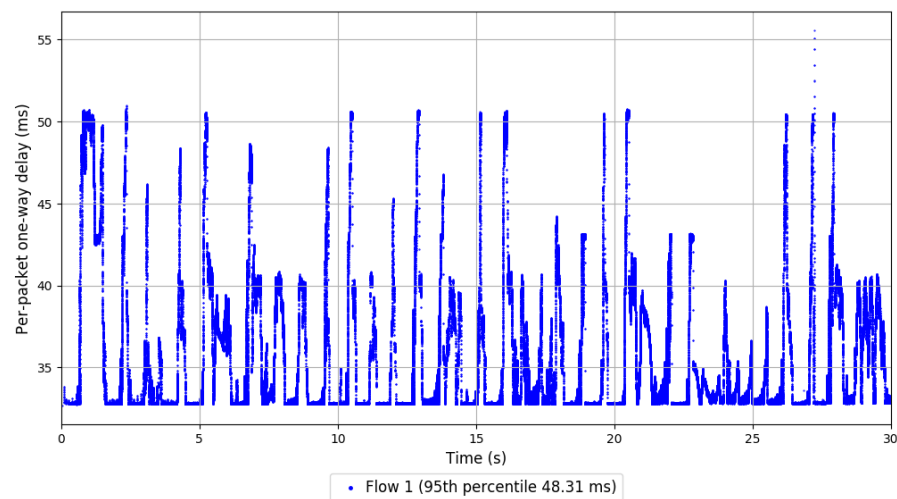
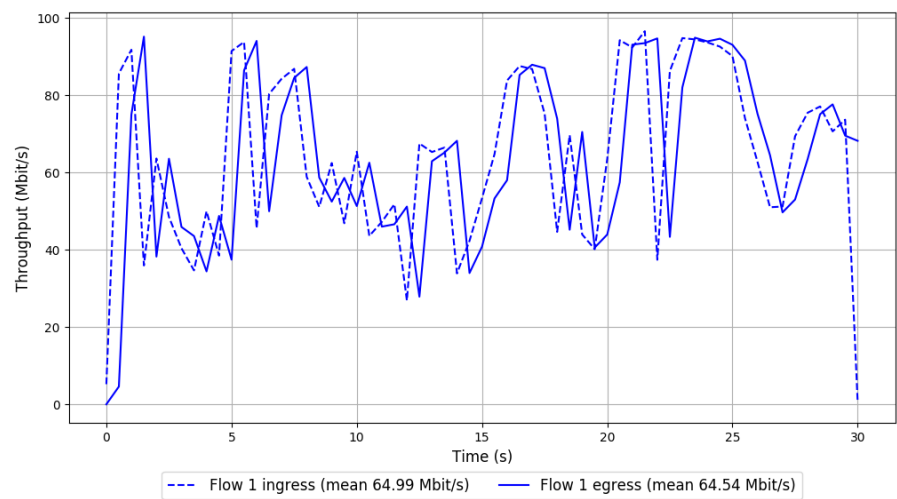
-- Flow 1:

Average throughput: 64.54 Mbit/s

95th percentile per-packet one-way delay: 48.312 ms

Loss rate: 0.93%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-06-30 09:58:29

End at: 2018-06-30 09:58:59

Local clock offset: 0.288 ms

Remote clock offset: 6.054 ms

Below is generated by plot.py at 2018-06-30 10:40:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.33 Mbit/s

95th percentile per-packet one-way delay: 42.841 ms

Loss rate: 0.31%

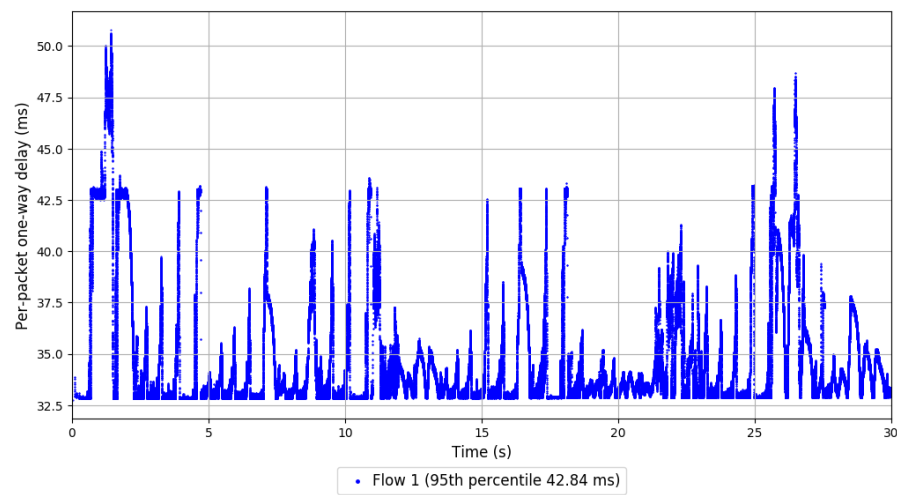
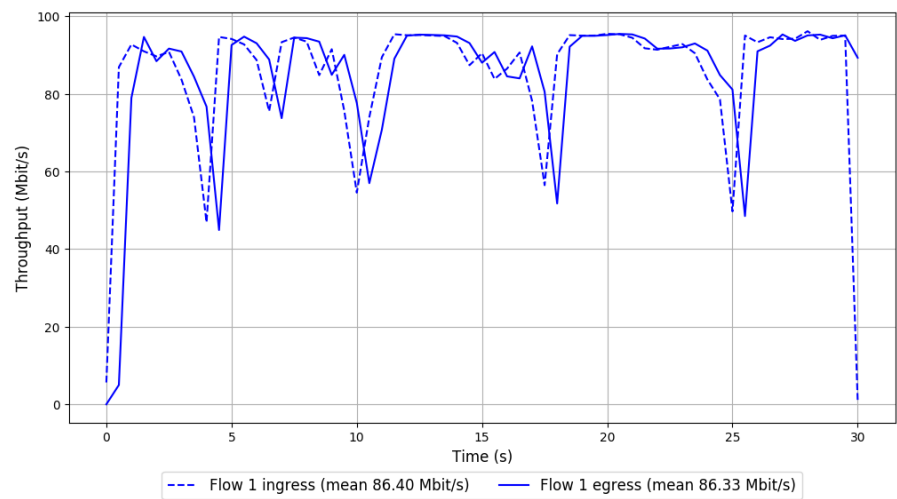
-- Flow 1:

Average throughput: 86.33 Mbit/s

95th percentile per-packet one-way delay: 42.841 ms

Loss rate: 0.31%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-06-30 10:21:25

End at: 2018-06-30 10:21:55

Local clock offset: 0.207 ms

Remote clock offset: 5.45 ms

Below is generated by plot.py at 2018-06-30 10:40:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 80.21 Mbit/s

95th percentile per-packet one-way delay: 42.696 ms

Loss rate: 0.33%

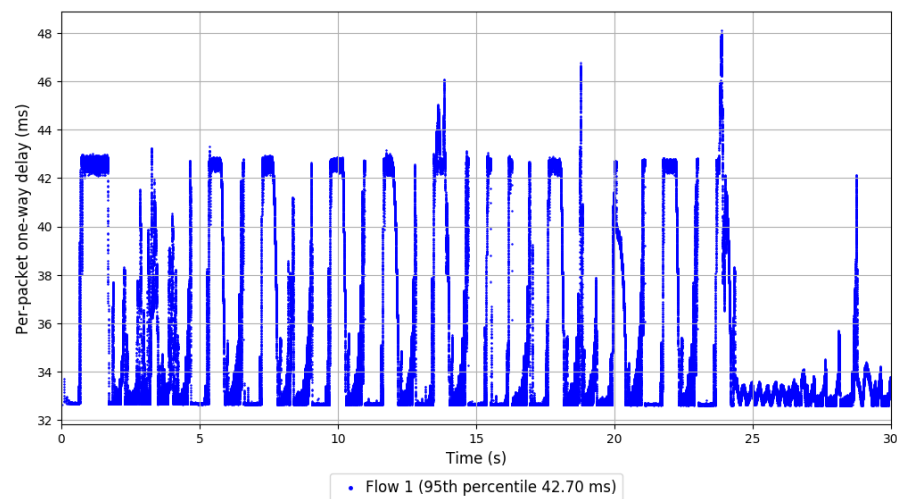
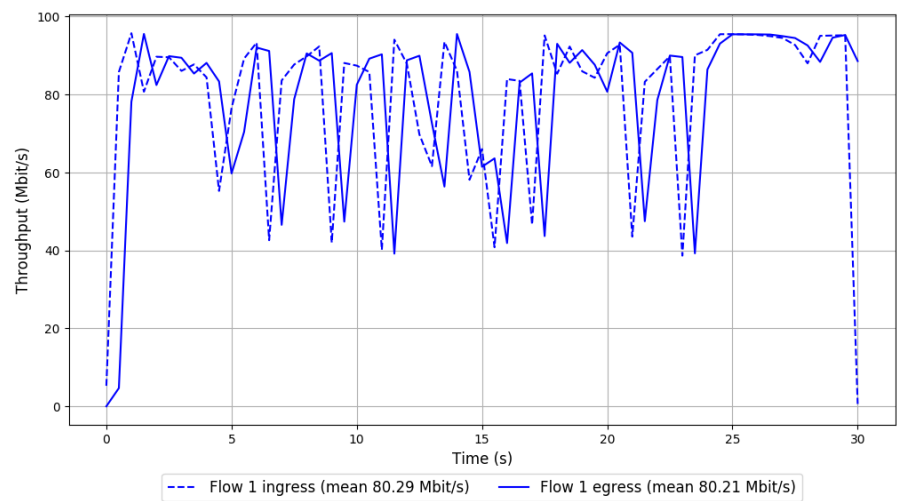
-- Flow 1:

Average throughput: 80.21 Mbit/s

95th percentile per-packet one-way delay: 42.696 ms

Loss rate: 0.33%

Run 10: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-06-30 06:32:18

End at: 2018-06-30 06:32:48

Local clock offset: 0.933 ms

Remote clock offset: 4.58 ms

Below is generated by plot.py at 2018-06-30 10:40:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 32.60 Mbit/s

95th percentile per-packet one-way delay: 40.070 ms

Loss rate: 0.20%

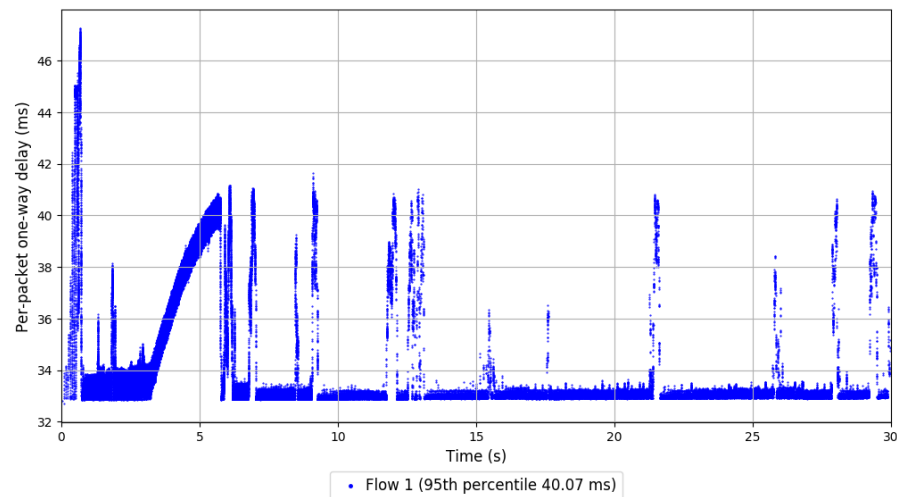
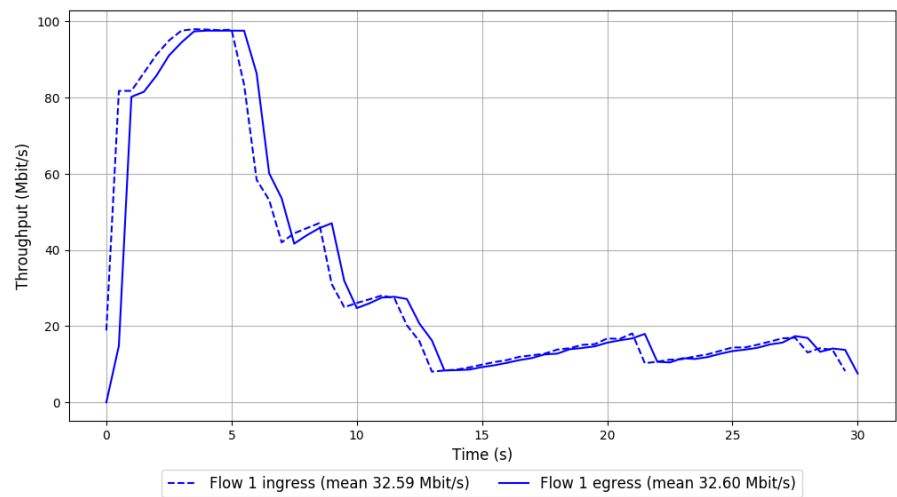
-- Flow 1:

Average throughput: 32.60 Mbit/s

95th percentile per-packet one-way delay: 40.070 ms

Loss rate: 0.20%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-06-30 06:54:35

End at: 2018-06-30 06:55:05

Local clock offset: 0.672 ms

Remote clock offset: 4.624 ms

Below is generated by plot.py at 2018-06-30 10:40:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 20.33 Mbit/s

95th percentile per-packet one-way delay: 40.364 ms

Loss rate: 0.32%

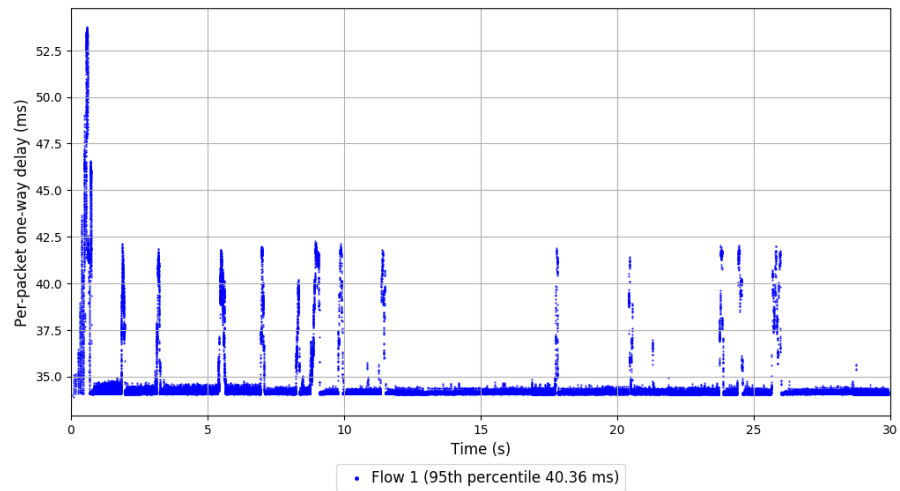
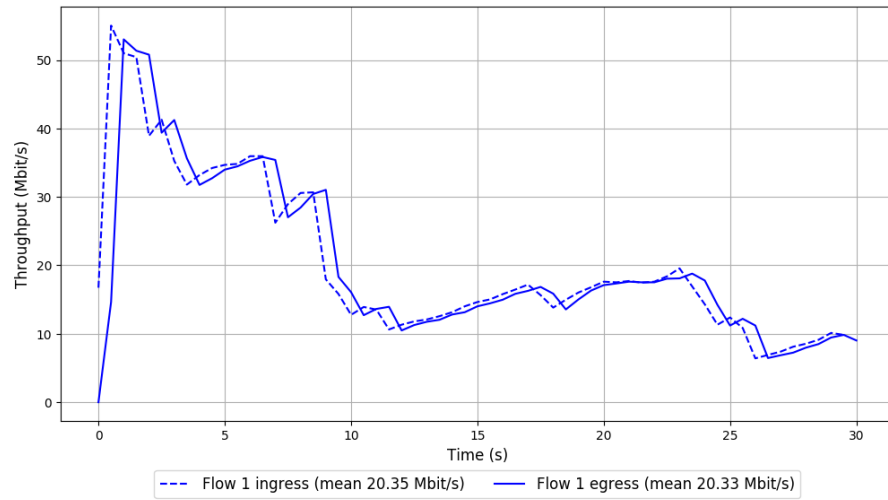
-- Flow 1:

Average throughput: 20.33 Mbit/s

95th percentile per-packet one-way delay: 40.364 ms

Loss rate: 0.32%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-06-30 07:19:59

End at: 2018-06-30 07:20:29

Local clock offset: 0.903 ms

Remote clock offset: 4.177 ms

Below is generated by plot.py at 2018-06-30 10:40:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.13 Mbit/s

95th percentile per-packet one-way delay: 40.591 ms

Loss rate: 0.95%

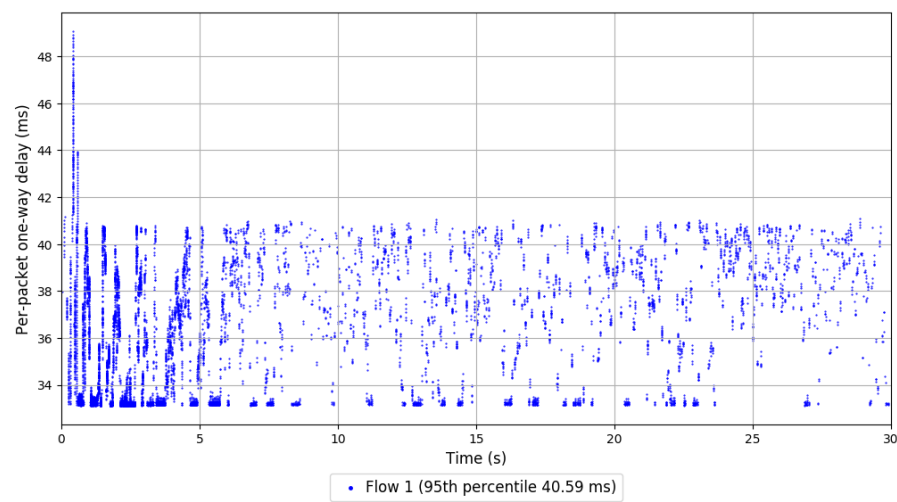
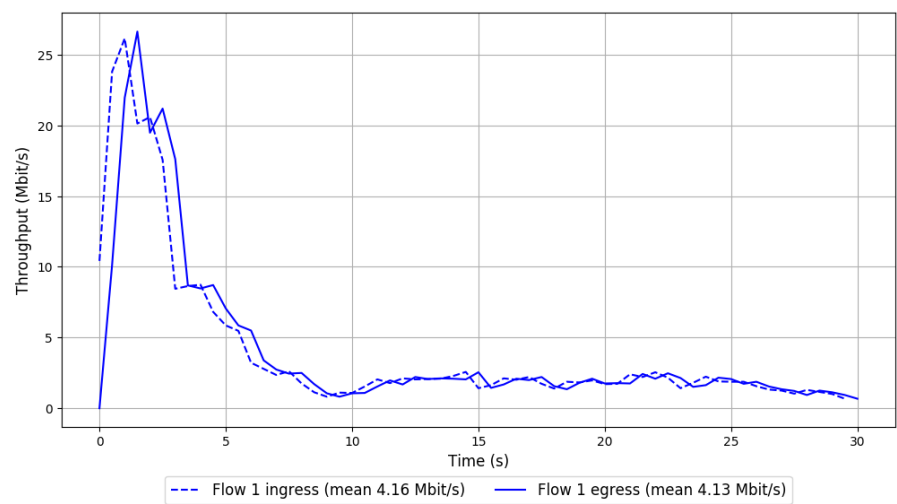
-- Flow 1:

Average throughput: 4.13 Mbit/s

95th percentile per-packet one-way delay: 40.591 ms

Loss rate: 0.95%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-06-30 07:45:51

End at: 2018-06-30 07:46:21

Local clock offset: 1.182 ms

Remote clock offset: 4.051 ms

Below is generated by plot.py at 2018-06-30 10:40:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.67 Mbit/s

95th percentile per-packet one-way delay: 40.815 ms

Loss rate: 1.12%

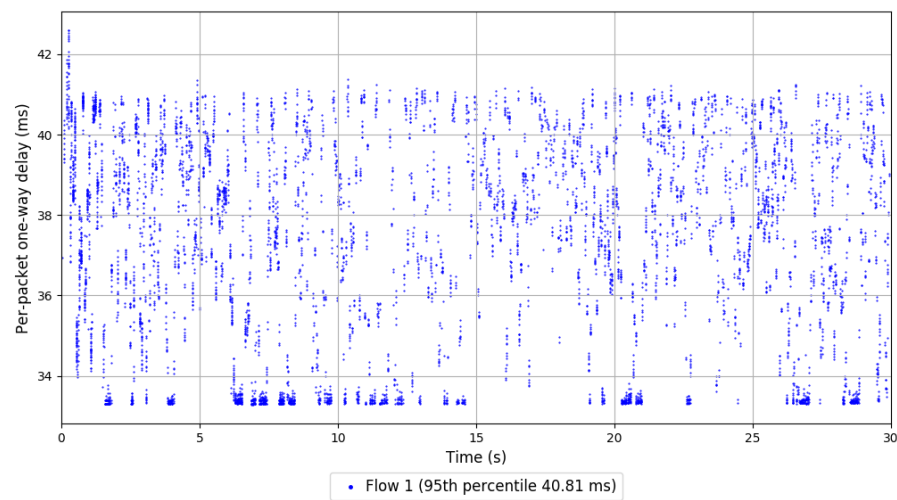
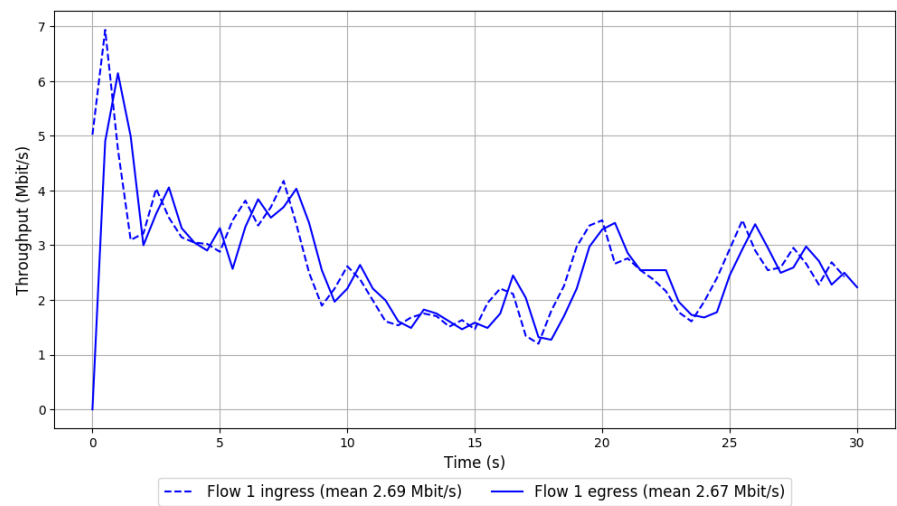
-- Flow 1:

Average throughput: 2.67 Mbit/s

95th percentile per-packet one-way delay: 40.815 ms

Loss rate: 1.12%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-06-30 08:12:10

End at: 2018-06-30 08:12:40

Local clock offset: 1.095 ms

Remote clock offset: 1.061 ms

Below is generated by plot.py at 2018-06-30 10:40:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.80 Mbit/s

95th percentile per-packet one-way delay: 41.728 ms

Loss rate: 1.17%

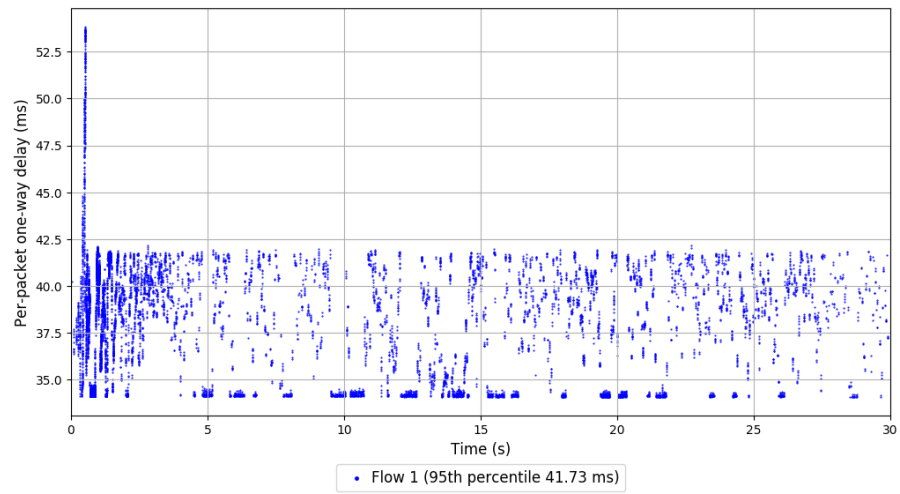
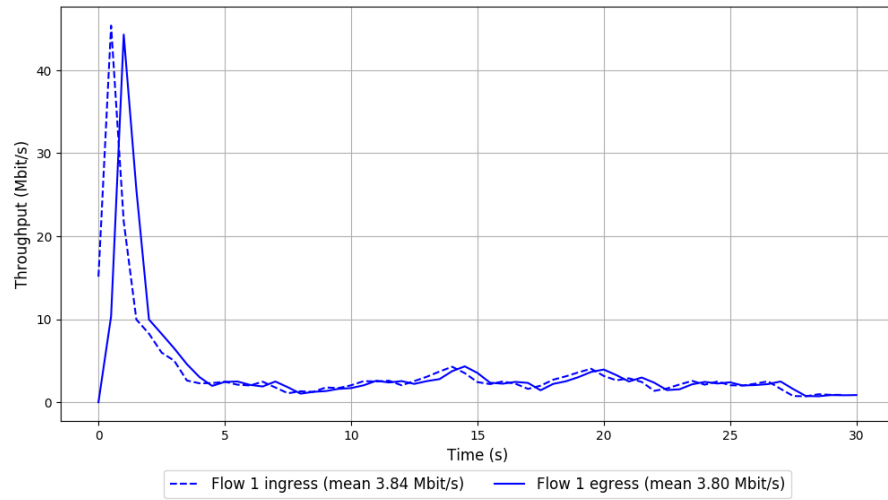
-- Flow 1:

Average throughput: 3.80 Mbit/s

95th percentile per-packet one-way delay: 41.728 ms

Loss rate: 1.17%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-06-30 08:37:29

End at: 2018-06-30 08:37:59

Local clock offset: 0.778 ms

Remote clock offset: 0.313 ms

Below is generated by plot.py at 2018-06-30 10:40:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.68 Mbit/s

95th percentile per-packet one-way delay: 40.625 ms

Loss rate: 0.84%

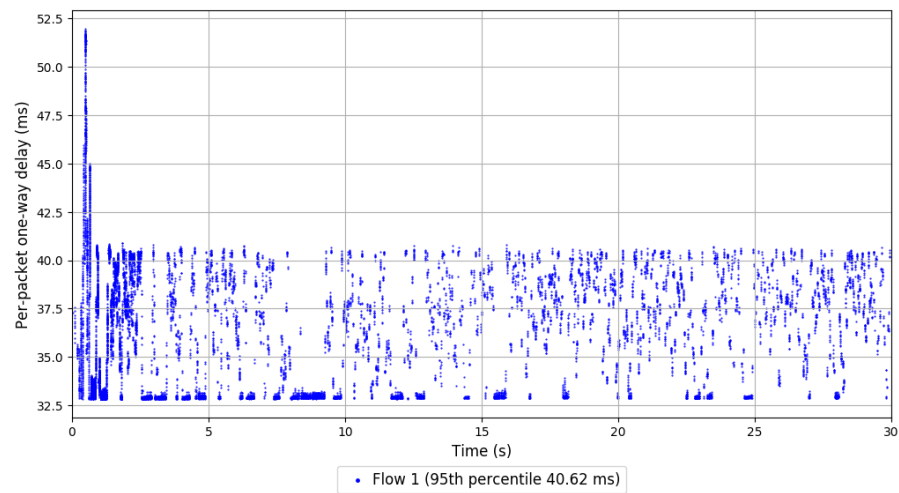
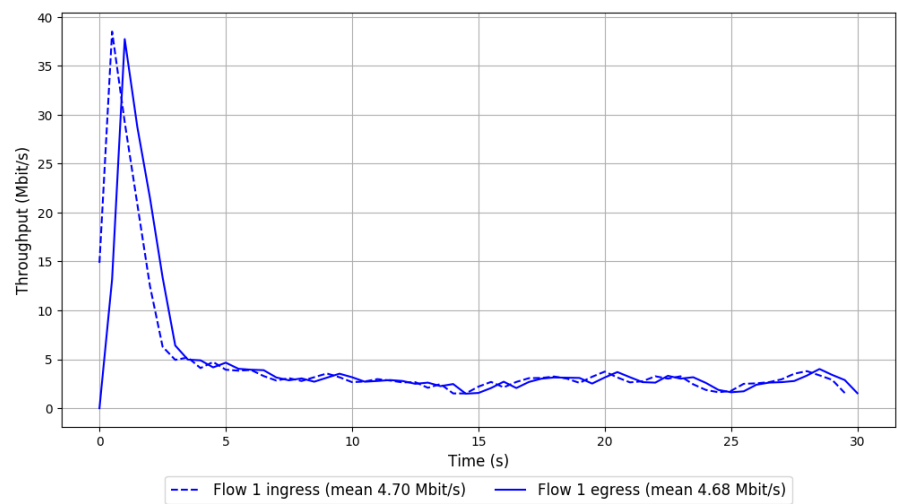
-- Flow 1:

Average throughput: 4.68 Mbit/s

95th percentile per-packet one-way delay: 40.625 ms

Loss rate: 0.84%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-06-30 09:02:30

End at: 2018-06-30 09:03:00

Local clock offset: 0.275 ms

Remote clock offset: 2.109 ms

Below is generated by plot.py at 2018-06-30 10:40:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.78 Mbit/s

95th percentile per-packet one-way delay: 40.038 ms

Loss rate: 1.28%

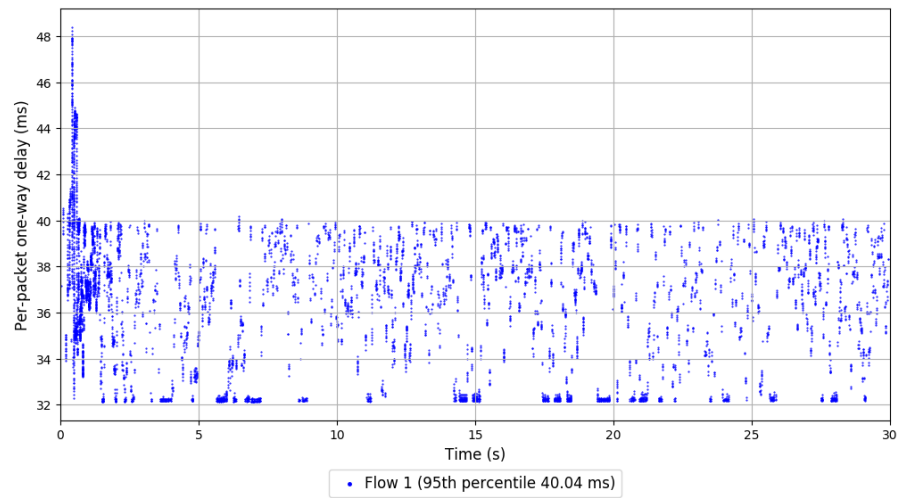
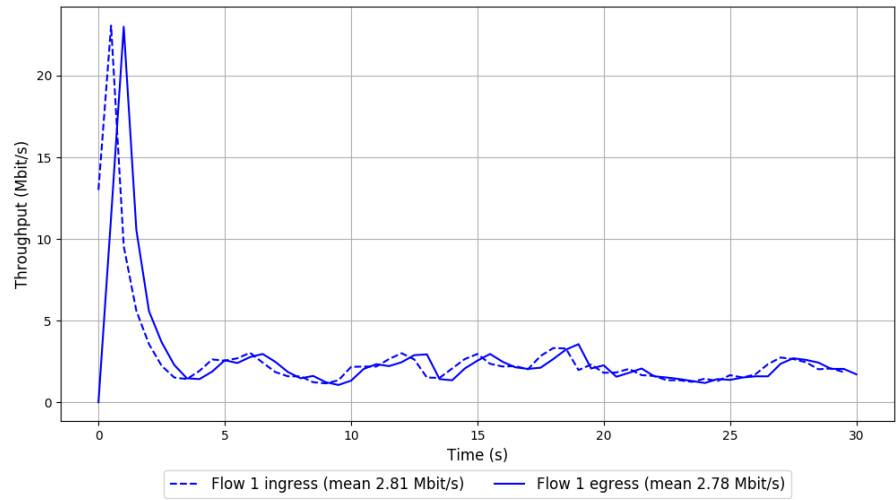
-- Flow 1:

Average throughput: 2.78 Mbit/s

95th percentile per-packet one-way delay: 40.038 ms

Loss rate: 1.28%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-06-30 09:27:19

End at: 2018-06-30 09:27:49

Local clock offset: 0.32 ms

Remote clock offset: 2.819 ms

Below is generated by plot.py at 2018-06-30 10:40:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 32.34 Mbit/s

95th percentile per-packet one-way delay: 39.995 ms

Loss rate: 0.28%

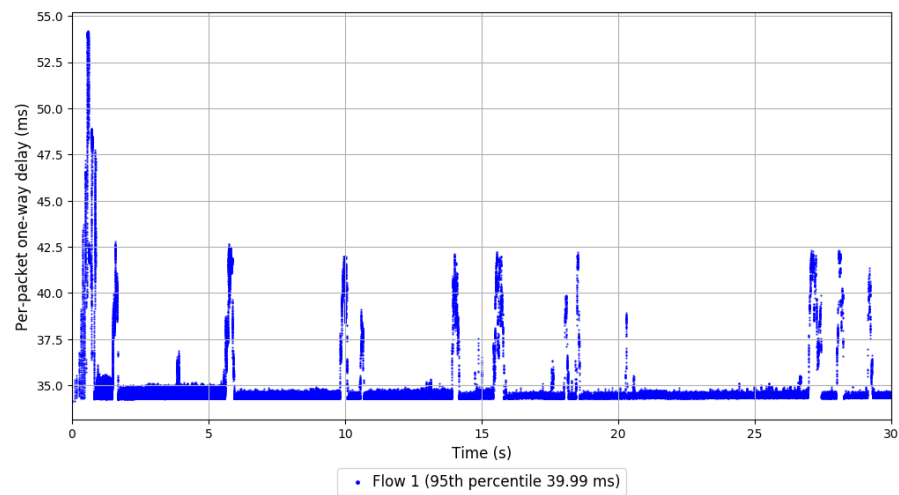
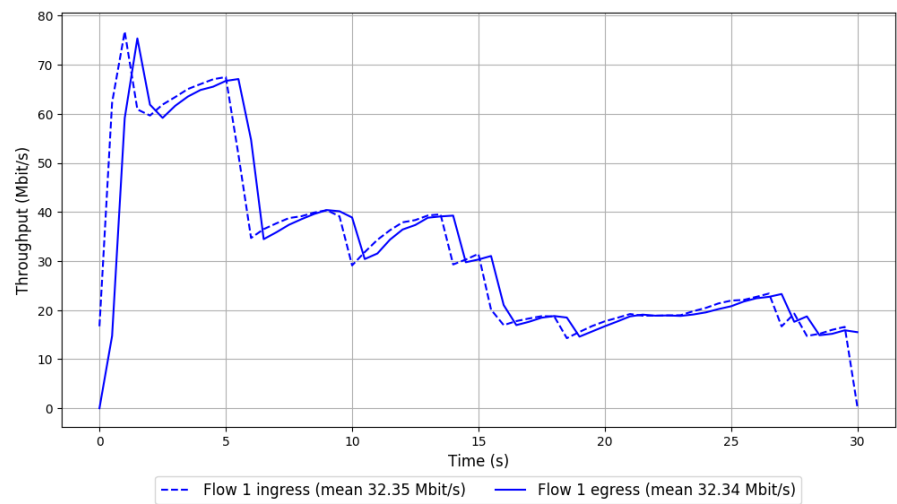
-- Flow 1:

Average throughput: 32.34 Mbit/s

95th percentile per-packet one-way delay: 39.995 ms

Loss rate: 0.28%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-06-30 09:50:29

End at: 2018-06-30 09:50:59

Local clock offset: 0.29 ms

Remote clock offset: 5.12 ms

Below is generated by plot.py at 2018-06-30 10:40:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 48.62 Mbit/s

95th percentile per-packet one-way delay: 39.022 ms

Loss rate: 0.32%

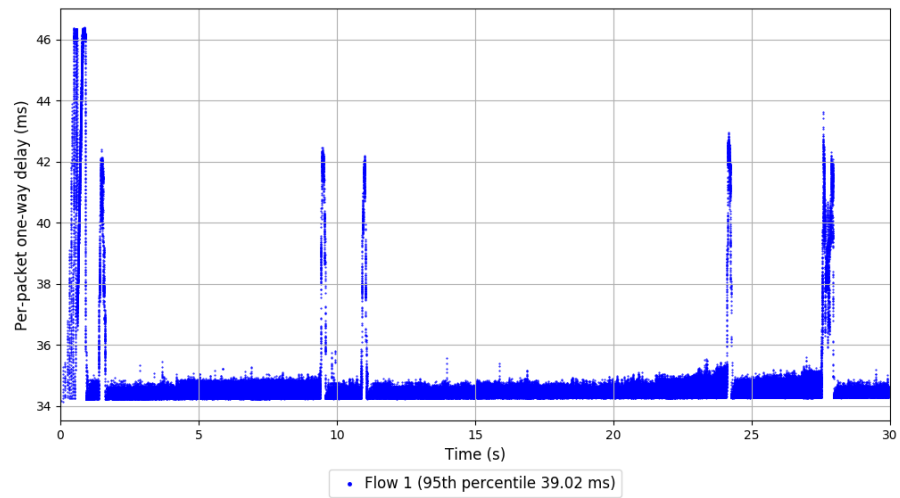
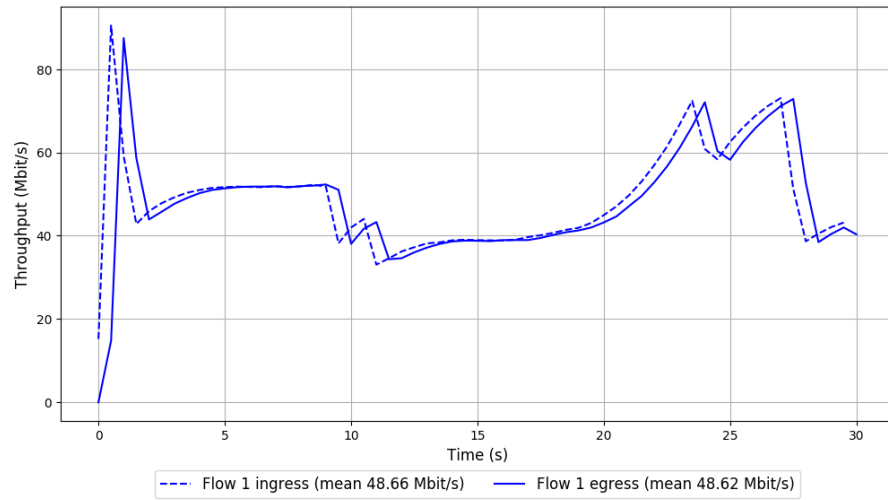
-- Flow 1:

Average throughput: 48.62 Mbit/s

95th percentile per-packet one-way delay: 39.022 ms

Loss rate: 0.32%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-06-30 10:13:23

End at: 2018-06-30 10:13:53

Local clock offset: 0.249 ms

Remote clock offset: 7.454 ms

Below is generated by plot.py at 2018-06-30 10:40:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 62.15 Mbit/s

95th percentile per-packet one-way delay: 37.667 ms

Loss rate: 0.20%

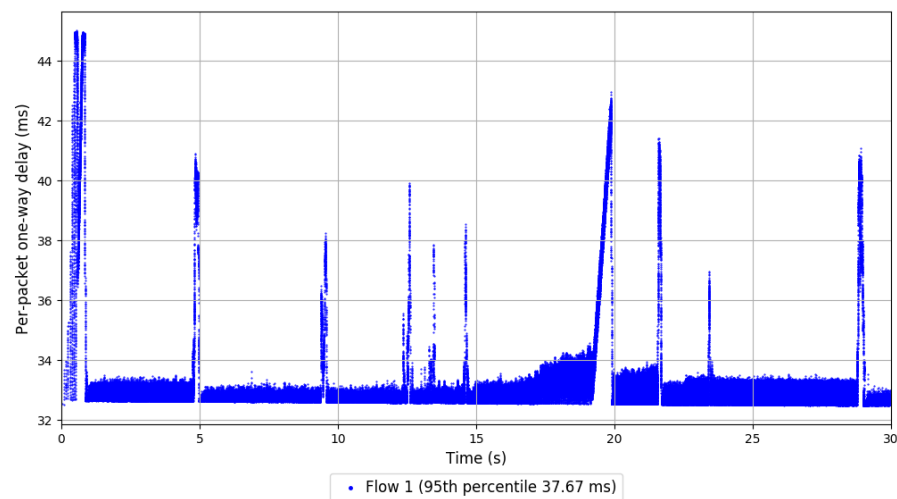
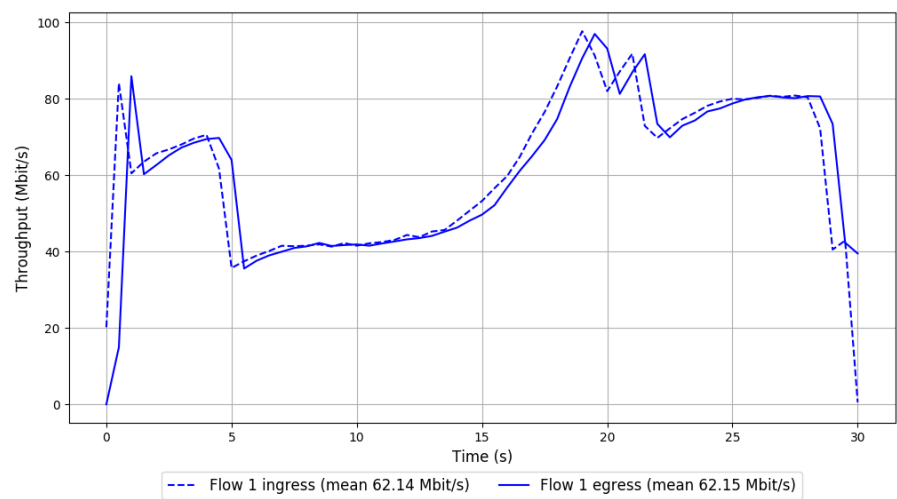
-- Flow 1:

Average throughput: 62.15 Mbit/s

95th percentile per-packet one-way delay: 37.667 ms

Loss rate: 0.20%

Run 10: Report of TCP Cubic — Data Link

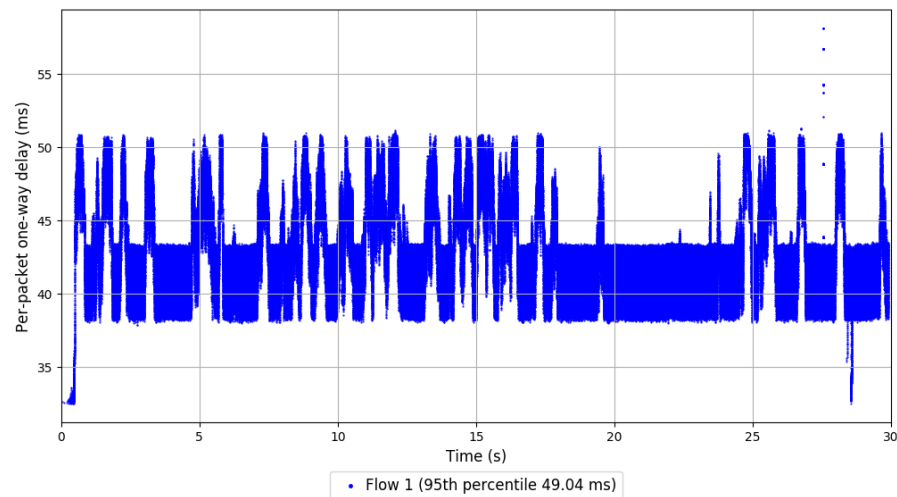
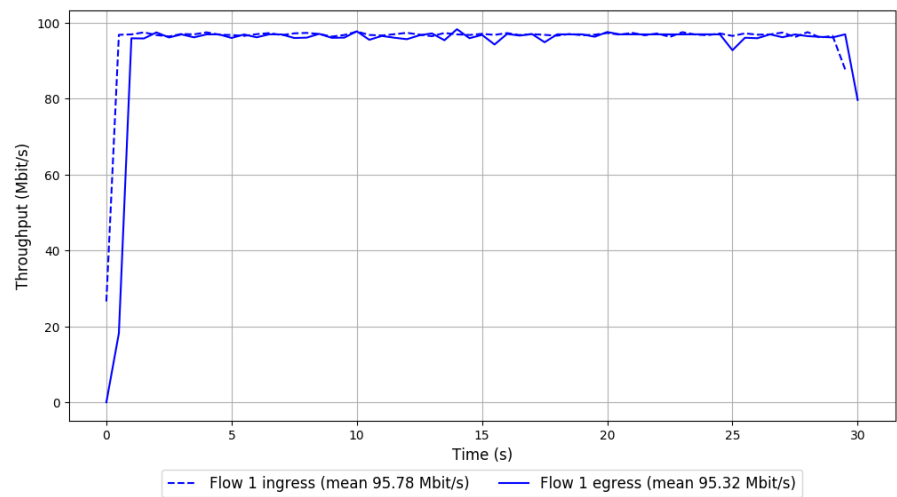


```
Run 1: Statistics of FillP

Start at: 2018-06-30 06:34:51
End at: 2018-06-30 06:35:21
Local clock offset: 0.671 ms
Remote clock offset: 4.705 ms

# Below is generated by plot.py at 2018-06-30 10:41:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.32 Mbit/s
95th percentile per-packet one-way delay: 49.042 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 95.32 Mbit/s
95th percentile per-packet one-way delay: 49.042 ms
Loss rate: 0.73%
```

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-06-30 06:57:09

End at: 2018-06-30 06:57:39

Local clock offset: 0.746 ms

Remote clock offset: 4.531 ms

Below is generated by plot.py at 2018-06-30 10:41:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.15 Mbit/s

95th percentile per-packet one-way delay: 50.181 ms

Loss rate: 0.83%

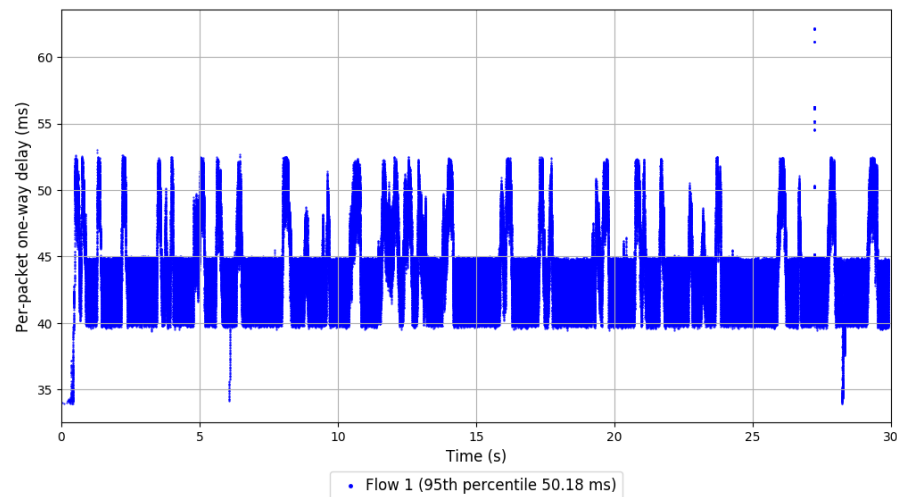
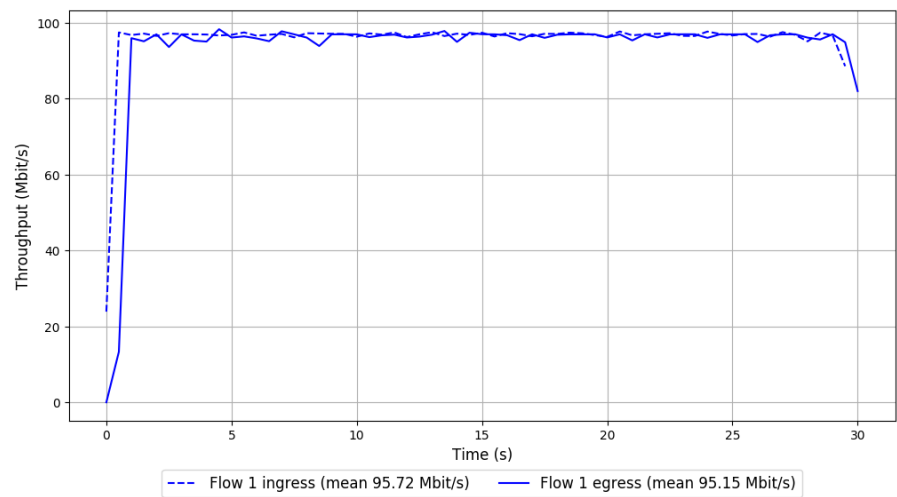
-- Flow 1:

Average throughput: 95.15 Mbit/s

95th percentile per-packet one-way delay: 50.181 ms

Loss rate: 0.83%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-06-30 07:22:32

End at: 2018-06-30 07:23:02

Local clock offset: 1.074 ms

Remote clock offset: 4.847 ms

Below is generated by plot.py at 2018-06-30 10:41:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.74 Mbit/s

95th percentile per-packet one-way delay: 49.977 ms

Loss rate: 1.39%

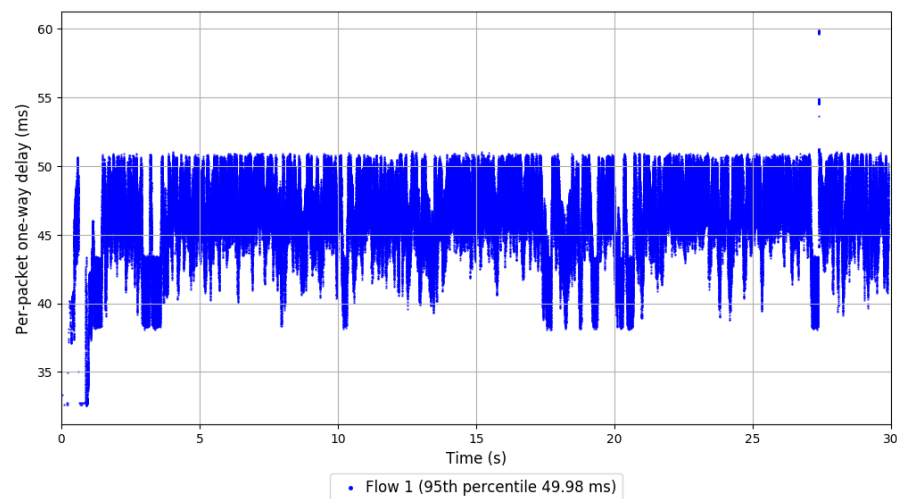
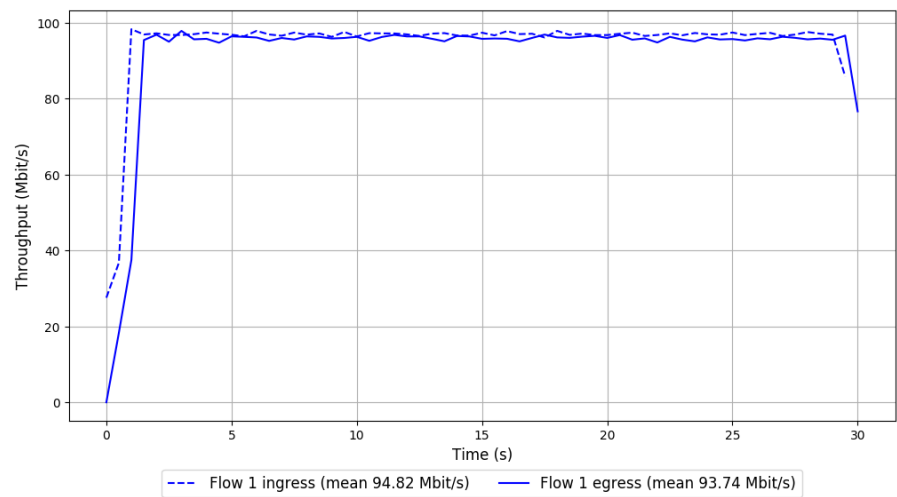
-- Flow 1:

Average throughput: 93.74 Mbit/s

95th percentile per-packet one-way delay: 49.977 ms

Loss rate: 1.39%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-06-30 07:48:27

End at: 2018-06-30 07:48:57

Local clock offset: 1.22 ms

Remote clock offset: 4.638 ms

Below is generated by plot.py at 2018-06-30 10:41:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.39 Mbit/s

95th percentile per-packet one-way delay: 50.169 ms

Loss rate: 1.73%

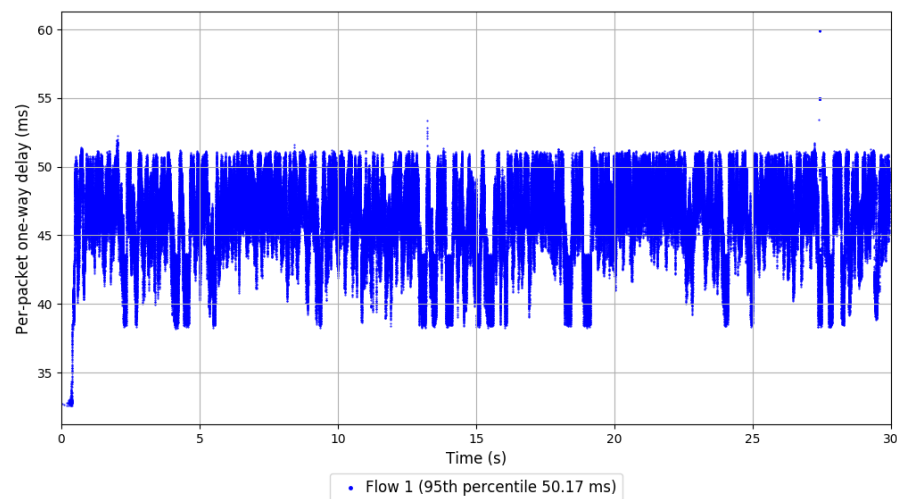
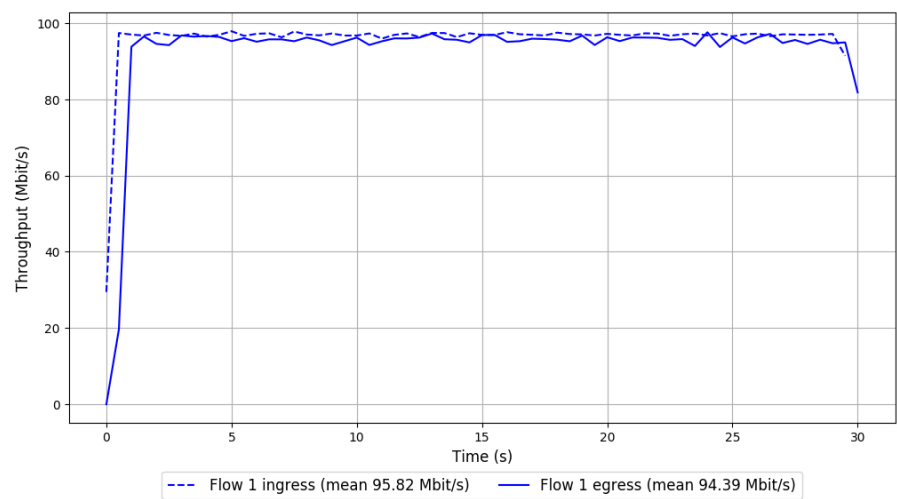
-- Flow 1:

Average throughput: 94.39 Mbit/s

95th percentile per-packet one-way delay: 50.169 ms

Loss rate: 1.73%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-06-30 08:14:44

End at: 2018-06-30 08:15:14

Local clock offset: 1.088 ms

Remote clock offset: 1.296 ms

Below is generated by plot.py at 2018-06-30 10:41:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.67 Mbit/s

95th percentile per-packet one-way delay: 50.766 ms

Loss rate: 1.38%

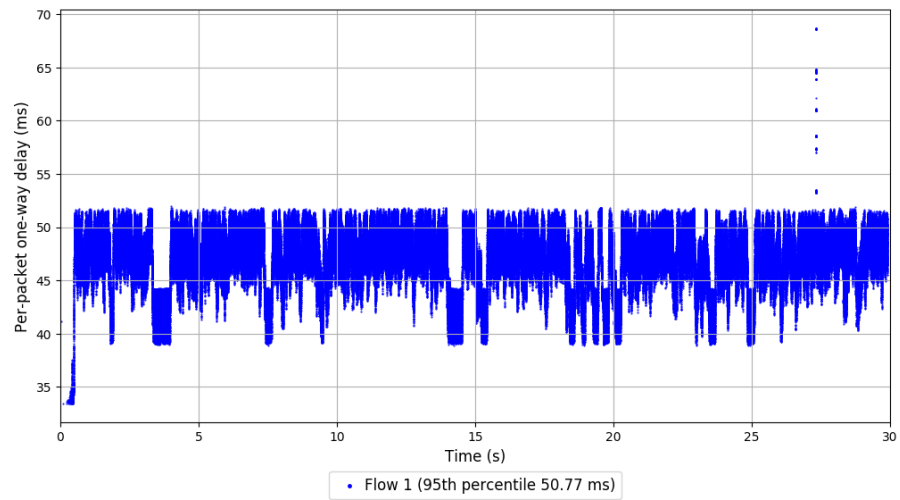
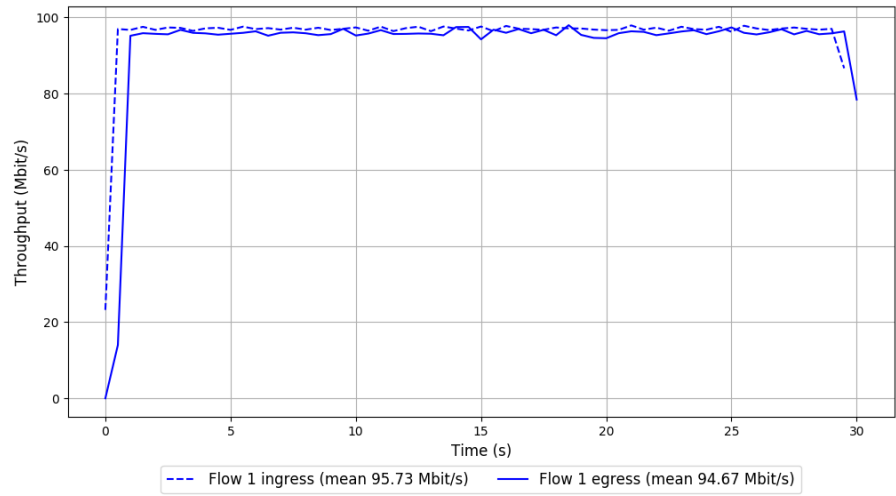
-- Flow 1:

Average throughput: 94.67 Mbit/s

95th percentile per-packet one-way delay: 50.766 ms

Loss rate: 1.38%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-06-30 08:40:03

End at: 2018-06-30 08:40:33

Local clock offset: 0.748 ms

Remote clock offset: 0.868 ms

Below is generated by plot.py at 2018-06-30 10:41:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.59 Mbit/s

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

Loss rate: 1.41%

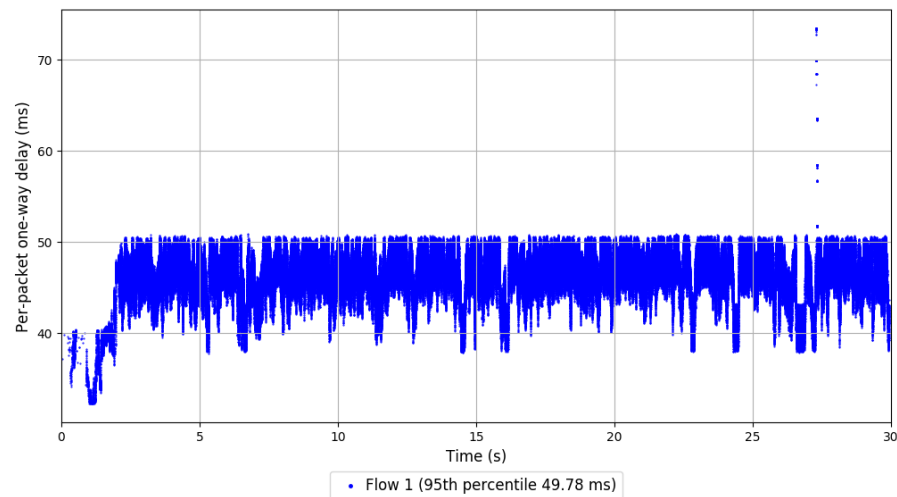
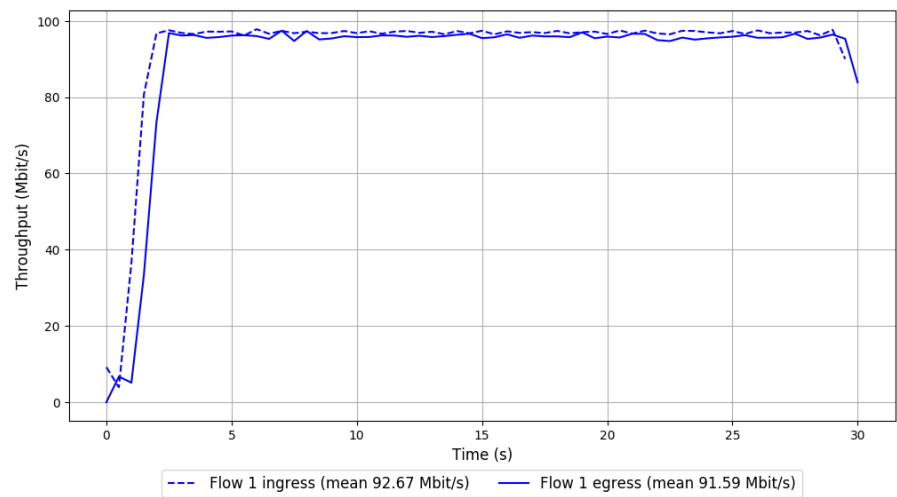
-- Flow 1:

Average throughput: 91.59 Mbit/s

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

Loss rate: 1.41%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-06-30 09:05:03

End at: 2018-06-30 09:05:33

Local clock offset: 0.339 ms

Remote clock offset: 1.559 ms

Below is generated by plot.py at 2018-06-30 10:42:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.50 Mbit/s

95th percentile per-packet one-way delay: 50.253 ms

Loss rate: 1.51%

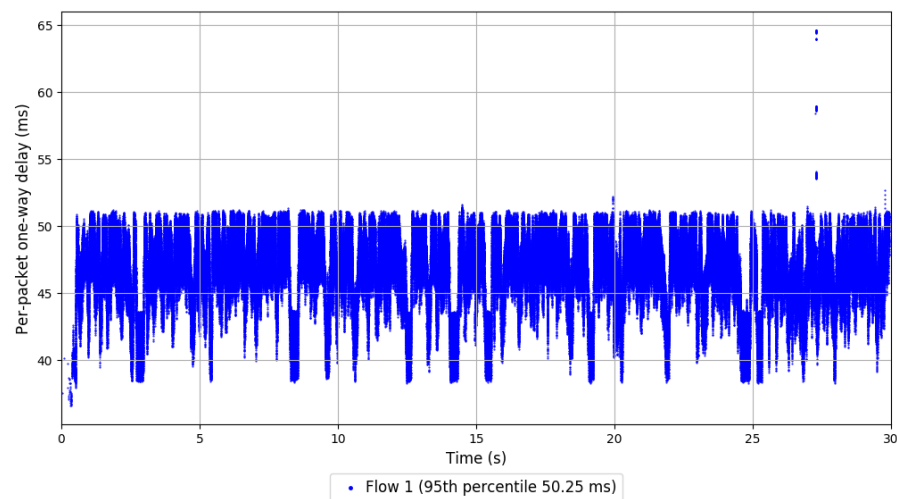
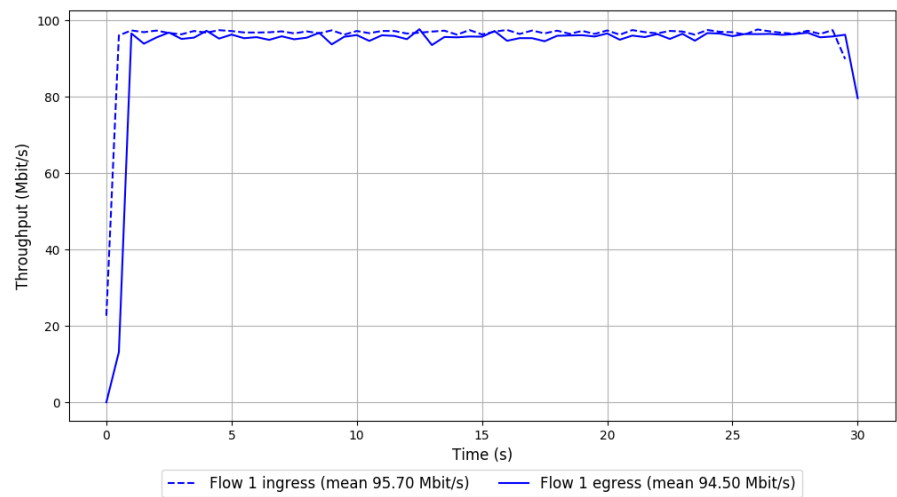
-- Flow 1:

Average throughput: 94.50 Mbit/s

95th percentile per-packet one-way delay: 50.253 ms

Loss rate: 1.51%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-06-30 09:29:55

End at: 2018-06-30 09:30:25

Local clock offset: 0.315 ms

Remote clock offset: 3.037 ms

Below is generated by plot.py at 2018-06-30 10:42:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.70 Mbit/s

95th percentile per-packet one-way delay: 50.039 ms

Loss rate: 1.01%

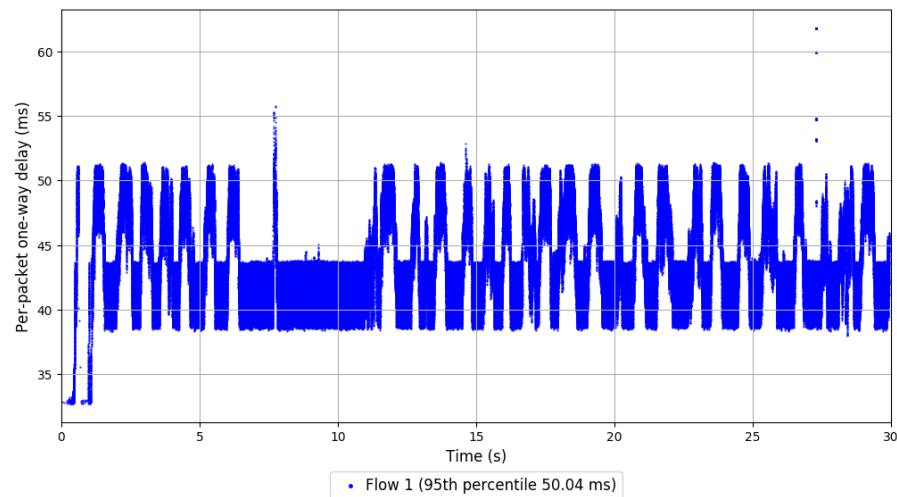
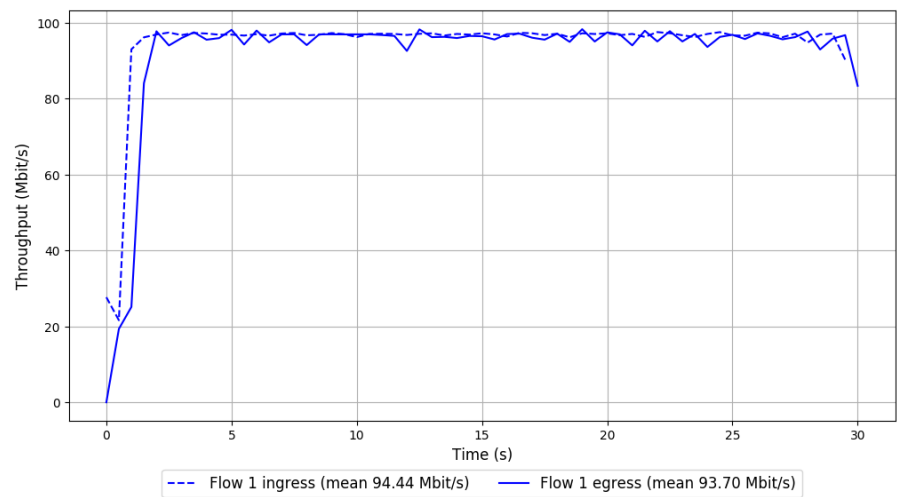
-- Flow 1:

Average throughput: 93.70 Mbit/s

95th percentile per-packet one-way delay: 50.039 ms

Loss rate: 1.01%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-06-30 09:53:07

End at: 2018-06-30 09:53:37

Local clock offset: 0.186 ms

Remote clock offset: 5.462 ms

Below is generated by plot.py at 2018-06-30 10:42:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.40 Mbit/s

95th percentile per-packet one-way delay: 46.127 ms

Loss rate: 0.45%

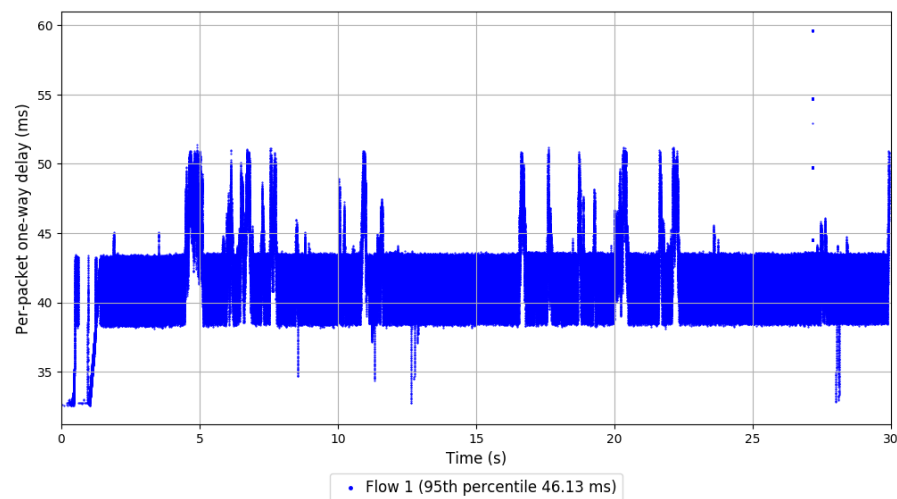
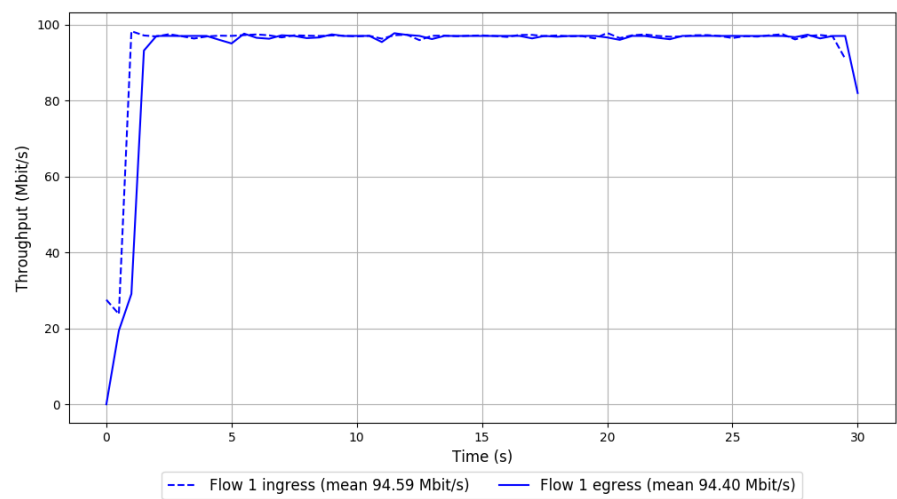
-- Flow 1:

Average throughput: 94.40 Mbit/s

95th percentile per-packet one-way delay: 46.127 ms

Loss rate: 0.45%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-06-30 10:16:03

End at: 2018-06-30 10:16:33

Local clock offset: 0.171 ms

Remote clock offset: 6.535 ms

Below is generated by plot.py at 2018-06-30 10:42:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.56 Mbit/s

95th percentile per-packet one-way delay: 46.999 ms

Loss rate: 0.35%

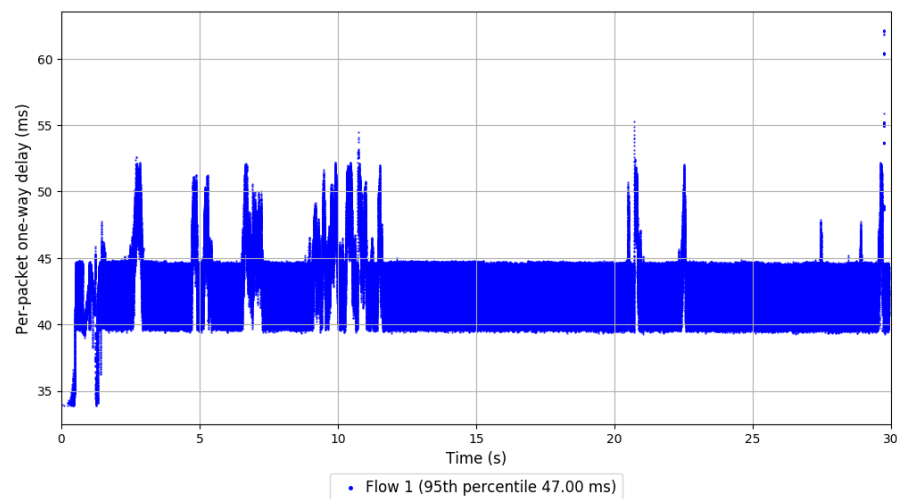
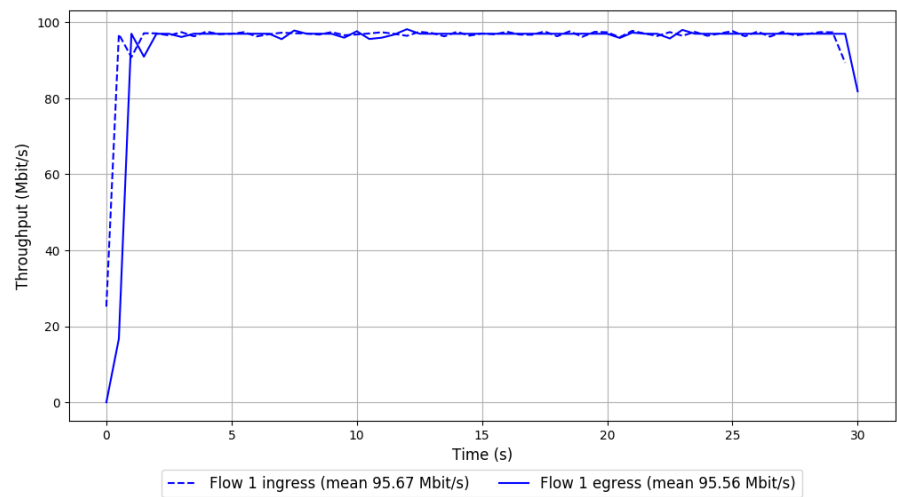
-- Flow 1:

Average throughput: 95.56 Mbit/s

95th percentile per-packet one-way delay: 46.999 ms

Loss rate: 0.35%

Run 10: Report of FillP — Data Link



Run 1: Statistics of FillP-Sheep

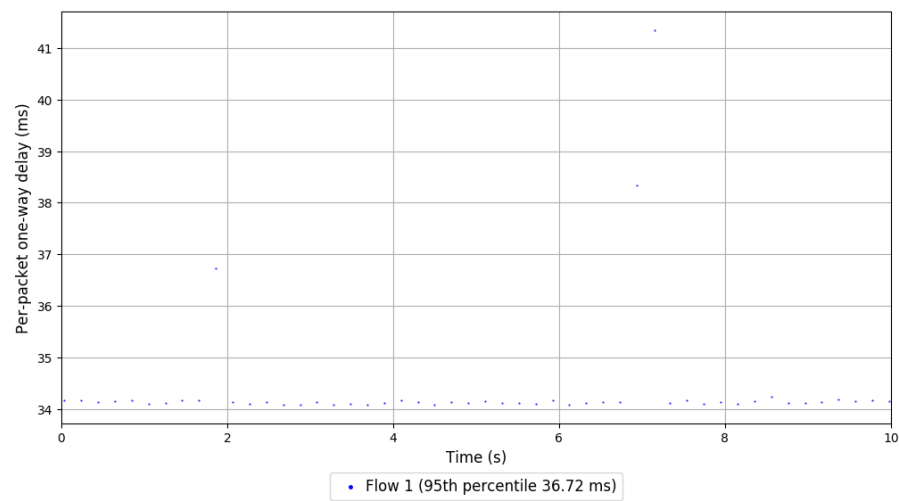
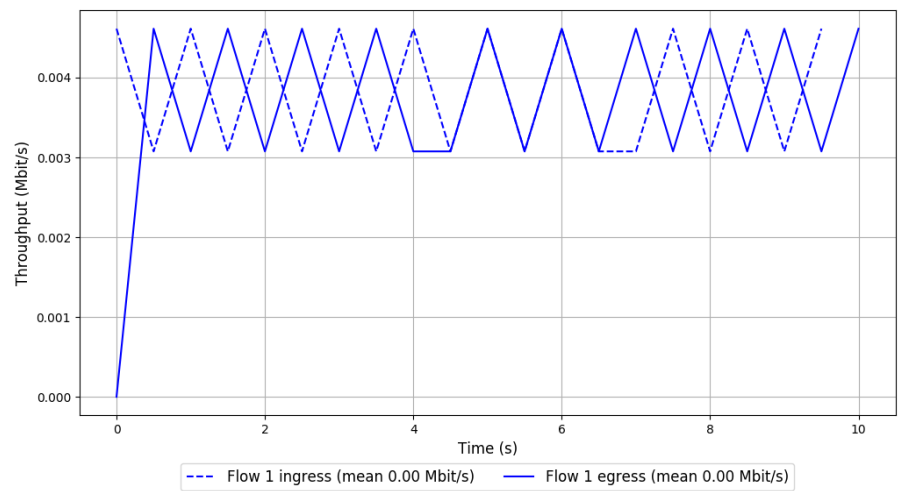
Start at: 2018-06-30 06:53:21

End at: 2018-06-30 06:53:51

Local clock offset: 0.68 ms

Remote clock offset: 4.677 ms

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

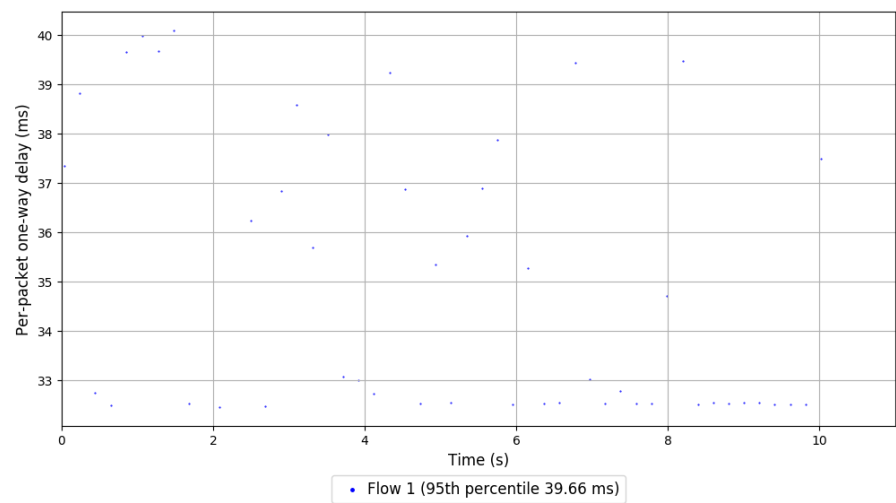
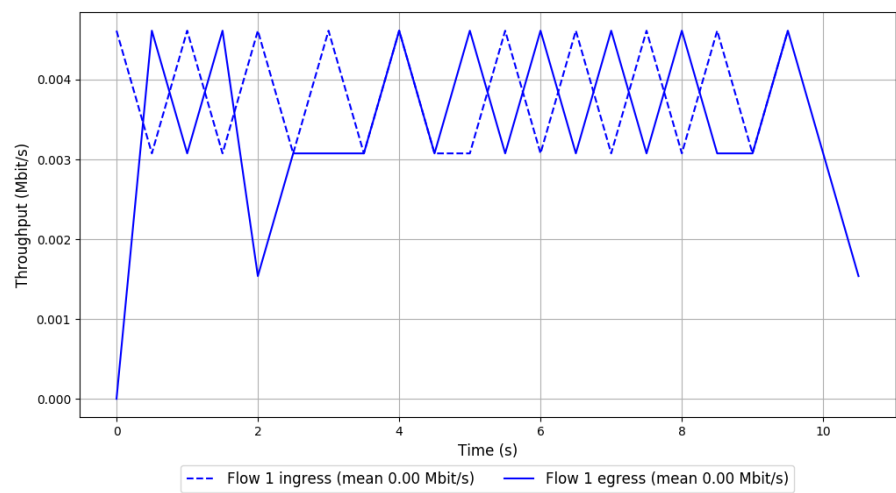
Start at: 2018-06-30 07:18:43

End at: 2018-06-30 07:19:13

Local clock offset: 0.945 ms

Remote clock offset: 4.672 ms

Run 2: Report of FillP-Sheep — Data Link



Run 3: Statistics of FillP-Sheep

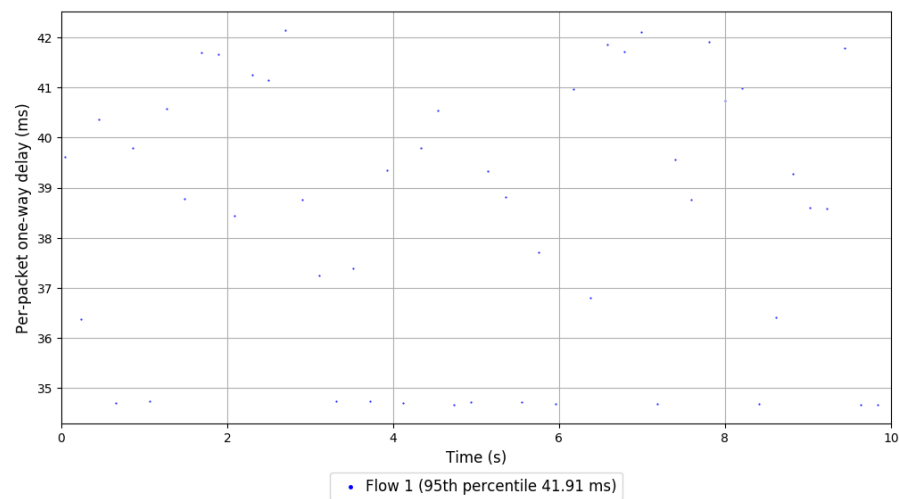
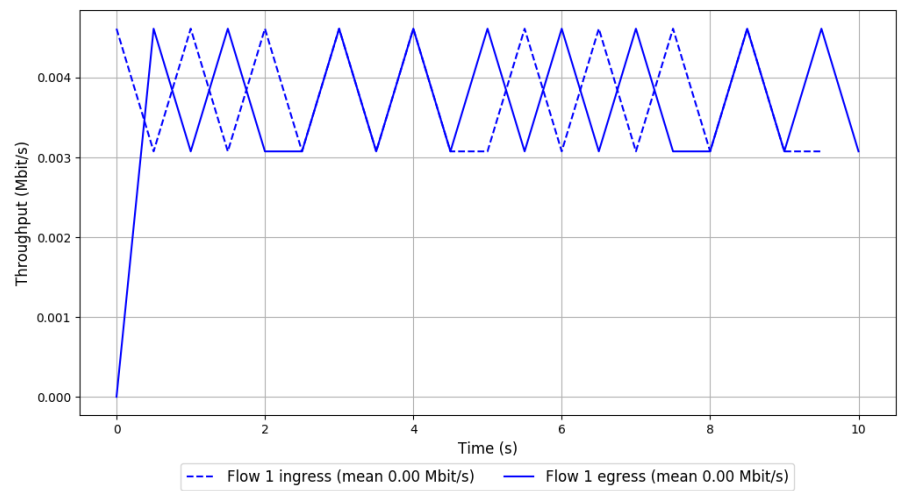
Start at: 2018-06-30 07:44:36

End at: 2018-06-30 07:45:06

Local clock offset: 1.279 ms

Remote clock offset: 4.019 ms

Run 3: Report of FillP-Sheep — Data Link



Run 4: Statistics of FillP-Sheep

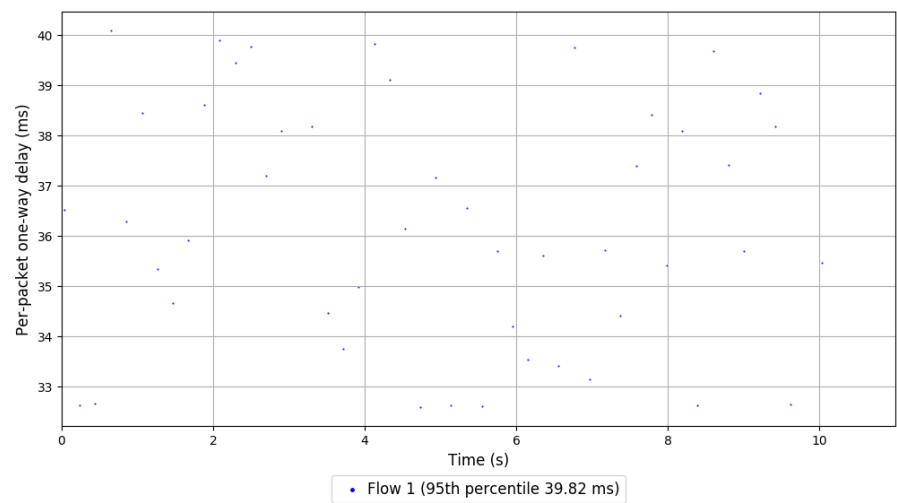
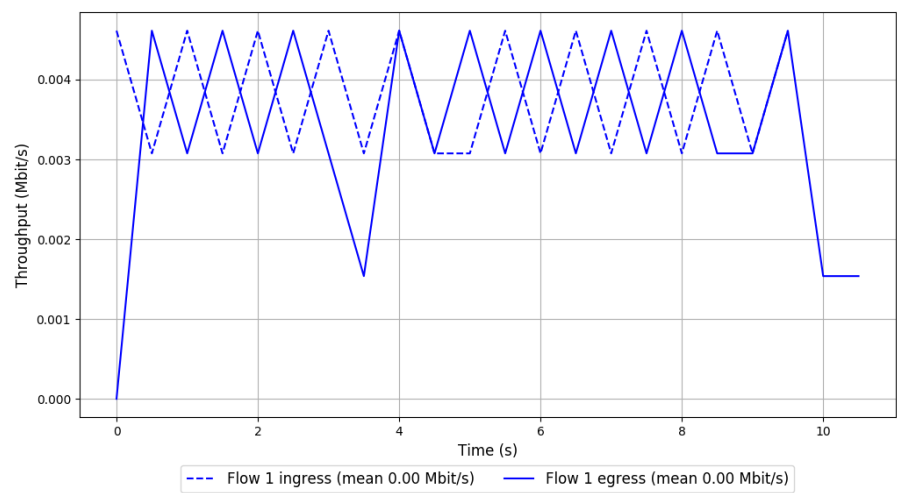
Start at: 2018-06-30 08:10:55

End at: 2018-06-30 08:11:25

Local clock offset: 1.102 ms

Remote clock offset: 1.257 ms

Run 4: Report of FillP-Sheep — Data Link



Run 5: Statistics of FillP-Sheep

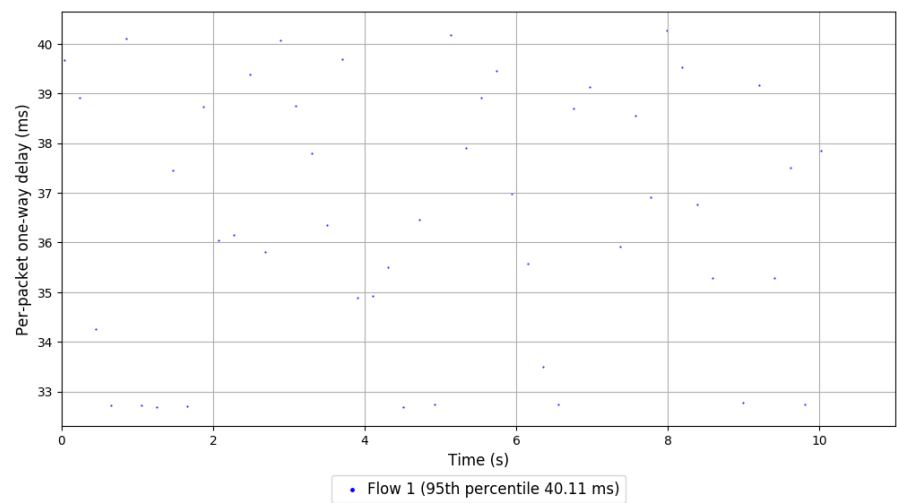
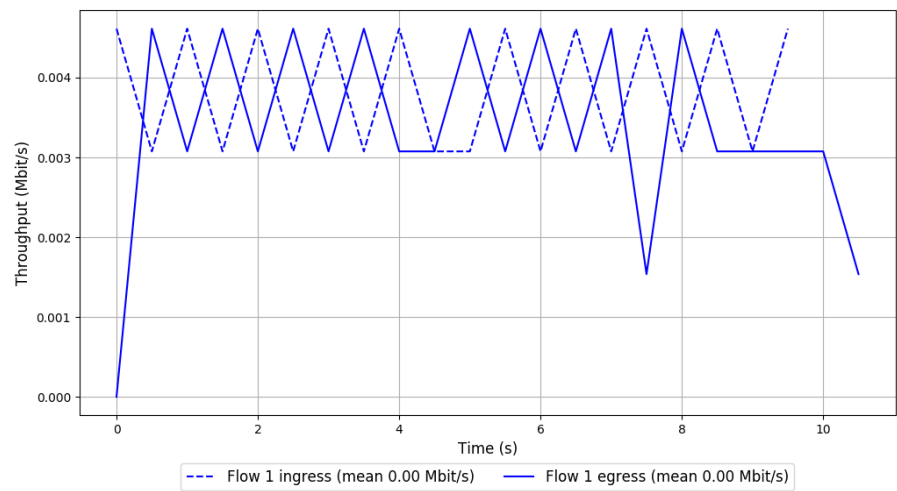
Start at: 2018-06-30 08:36:14

End at: 2018-06-30 08:36:44

Local clock offset: 0.798 ms

Remote clock offset: 0.209 ms

Run 5: Report of FillP-Sheep — Data Link



Run 6: Statistics of FillP-Sheep

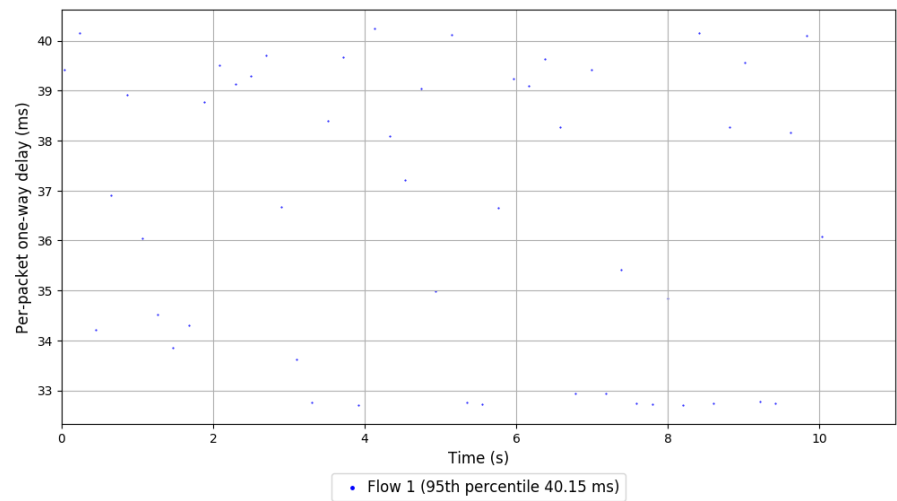
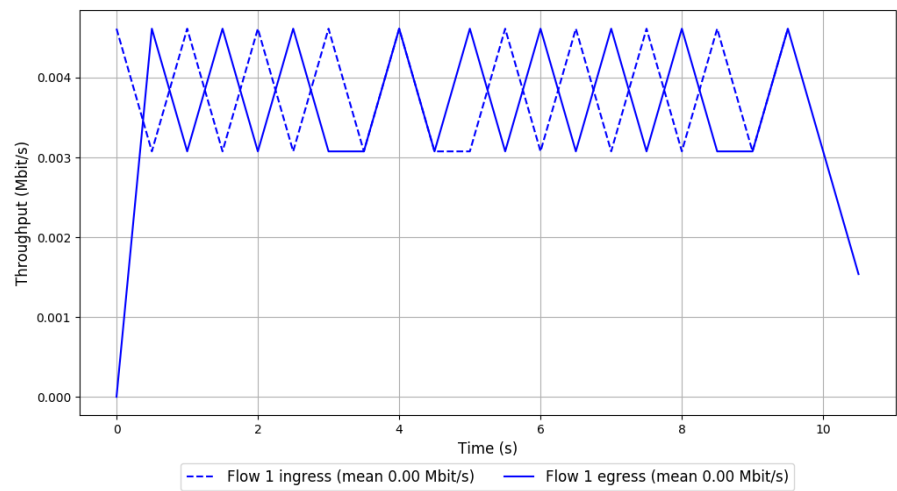
Start at: 2018-06-30 09:01:15

End at: 2018-06-30 09:01:45

Local clock offset: 0.37 ms

Remote clock offset: 1.432 ms

Run 6: Report of FillP-Sheep — Data Link



Run 7: Statistics of FillP-Sheep

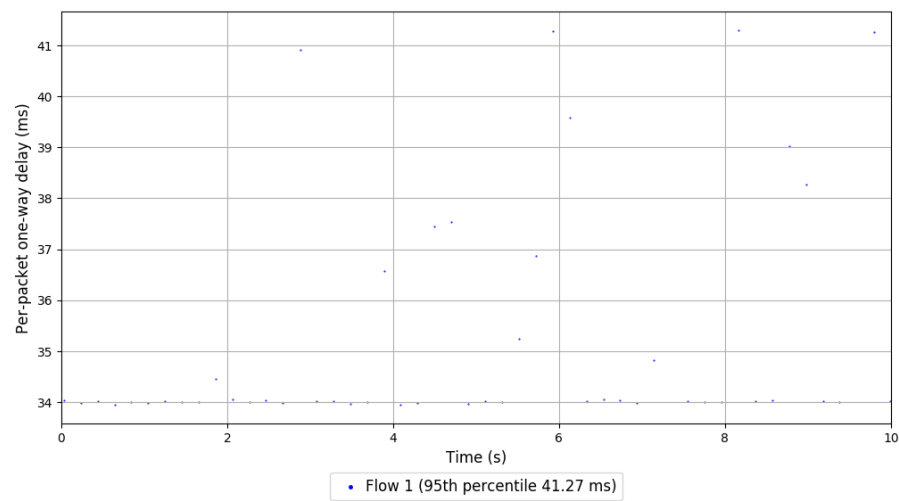
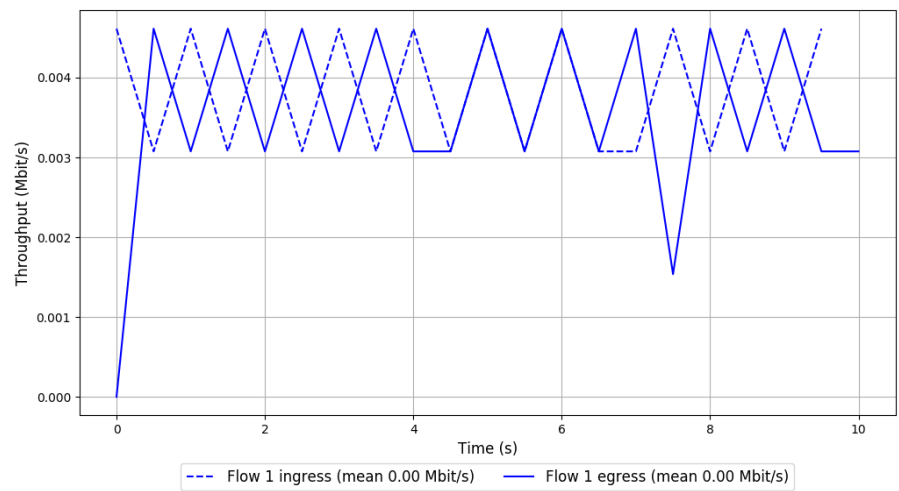
Start at: 2018-06-30 09:26:04

End at: 2018-06-30 09:26:34

Local clock offset: 0.219 ms

Remote clock offset: 2.688 ms

Run 7: Report of FillP-Sheep — Data Link



Run 8: Statistics of FillP-Sheep

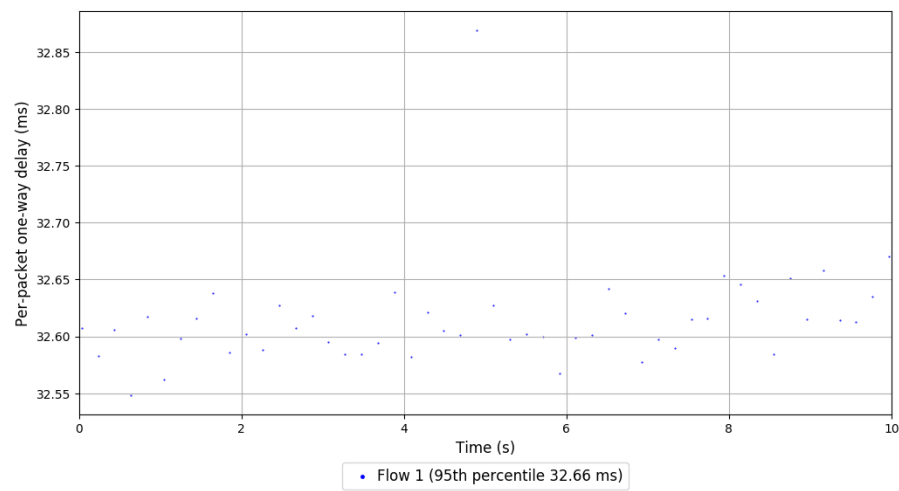
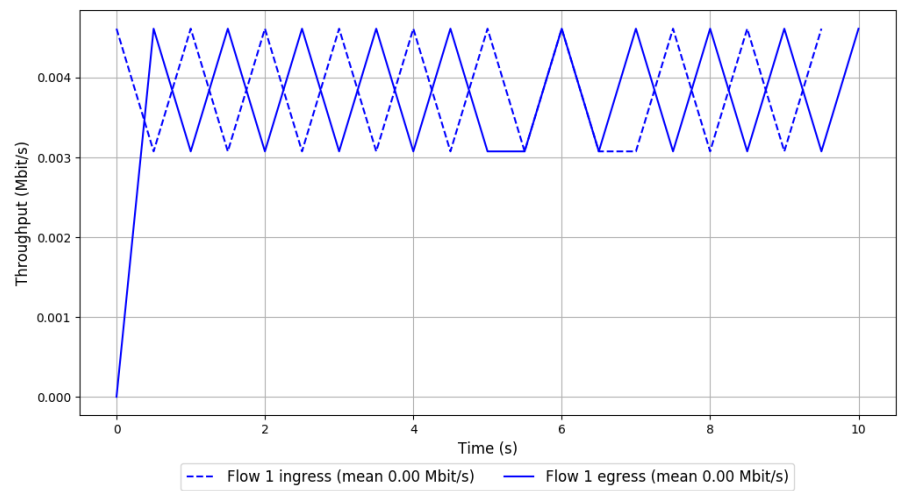
Start at: 2018-06-30 09:49:13

End at: 2018-06-30 09:49:43

Local clock offset: 0.17 ms

Remote clock offset: 5.011 ms

Run 8: Report of FillP-Sheep — Data Link



Run 9: Statistics of FillP-Sheep

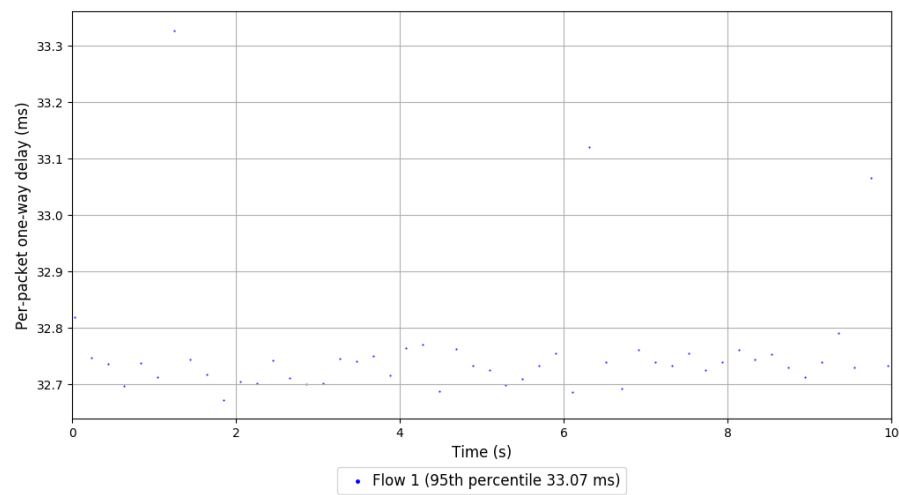
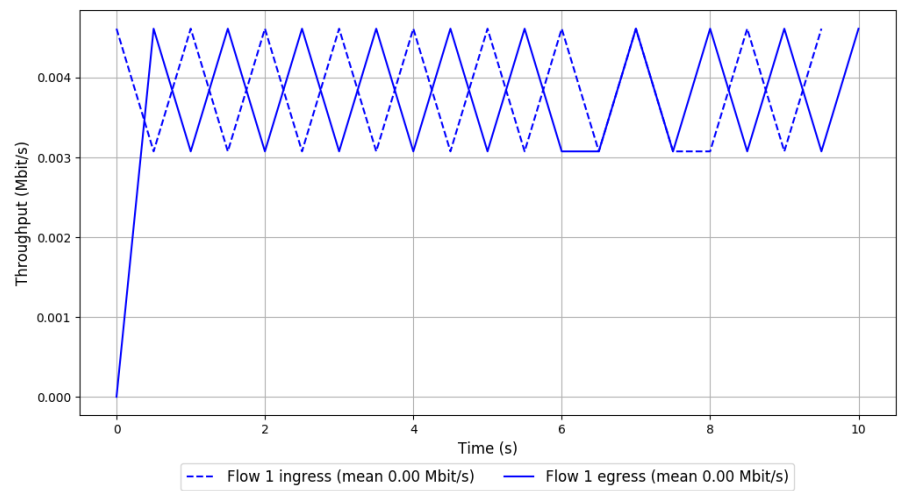
Start at: 2018-06-30 10:12:08

End at: 2018-06-30 10:12:38

Local clock offset: 0.248 ms

Remote clock offset: 7.369 ms

Run 9: Report of FillP-Sheep — Data Link



Run 10: Statistics of FillP-Sheep

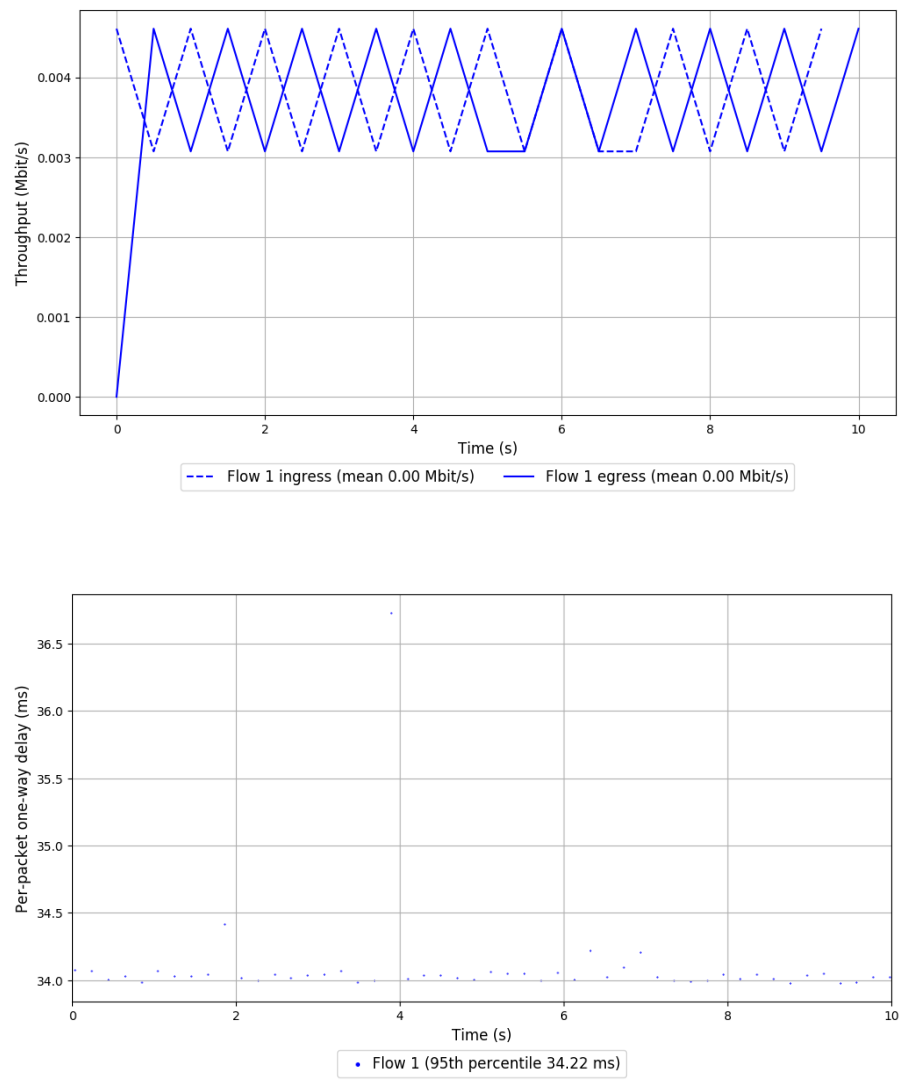
Start at: 2018-06-30 10:34:52

End at: 2018-06-30 10:35:22

Local clock offset: 0.315 ms

Remote clock offset: 4.542 ms

Run 10: Report of FillP-Sheep — Data Link

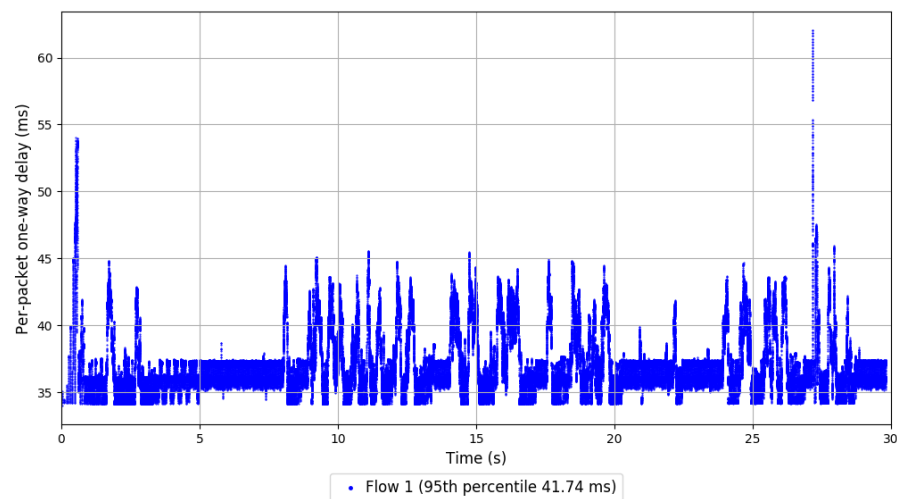
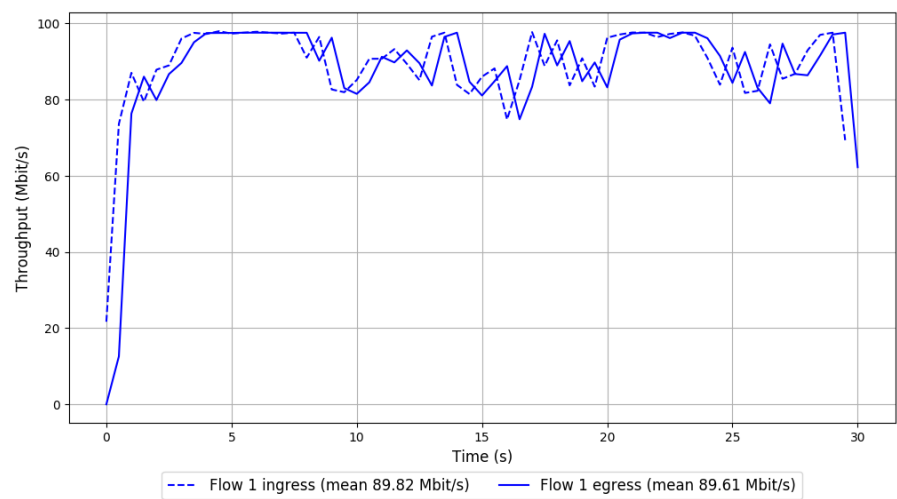


```
Run 1: Statistics of Indigo

Start at: 2018-06-30 06:42:48
End at: 2018-06-30 06:43:18
Local clock offset: 0.243 ms
Remote clock offset: 4.86 ms

# Below is generated by plot.py at 2018-06-30 10:42:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.61 Mbit/s
95th percentile per-packet one-way delay: 41.742 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 89.61 Mbit/s
95th percentile per-packet one-way delay: 41.742 ms
Loss rate: 0.47%
```

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2018-06-30 07:06:36

End at: 2018-06-30 07:07:06

Local clock offset: 0.81 ms

Remote clock offset: 3.963 ms

Below is generated by plot.py at 2018-06-30 10:42:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 61.13 Mbit/s

95th percentile per-packet one-way delay: 42.037 ms

Loss rate: 1.19%

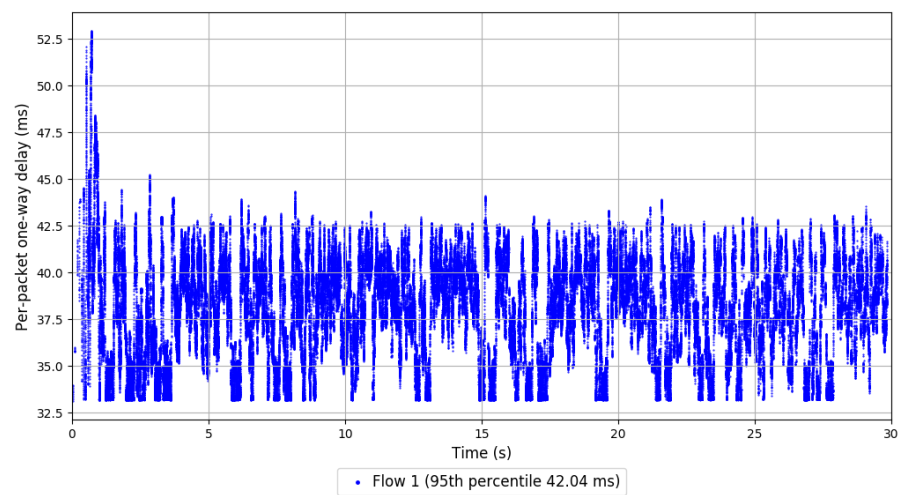
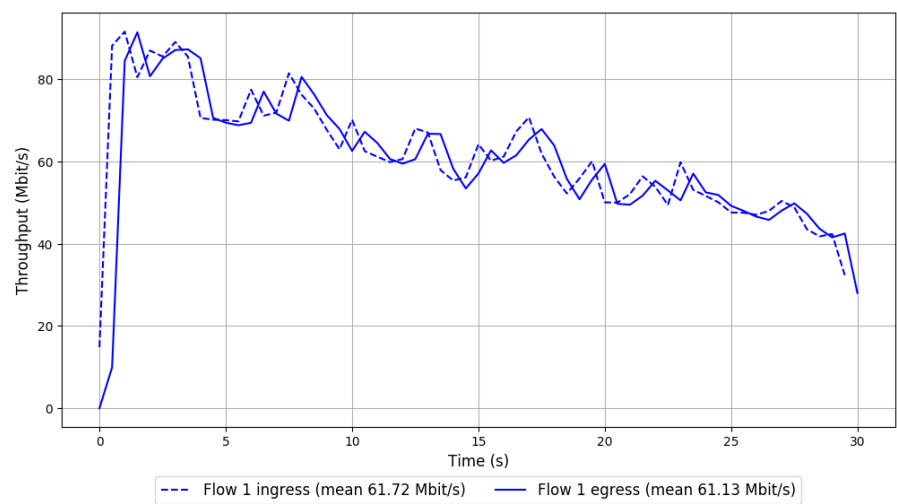
-- Flow 1:

Average throughput: 61.13 Mbit/s

95th percentile per-packet one-way delay: 42.037 ms

Loss rate: 1.19%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-06-30 07:31:40

End at: 2018-06-30 07:32:10

Local clock offset: 1.227 ms

Remote clock offset: 4.365 ms

Below is generated by plot.py at 2018-06-30 10:42:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 51.50 Mbit/s

95th percentile per-packet one-way delay: 41.525 ms

Loss rate: 1.31%

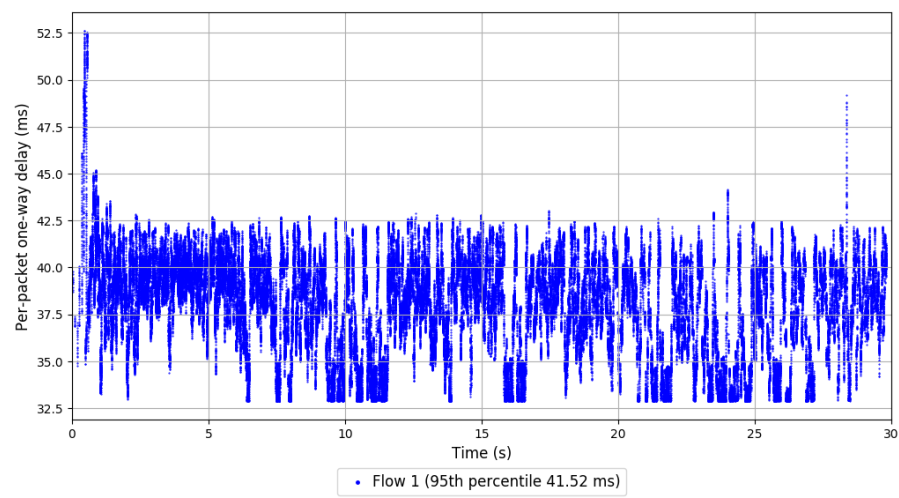
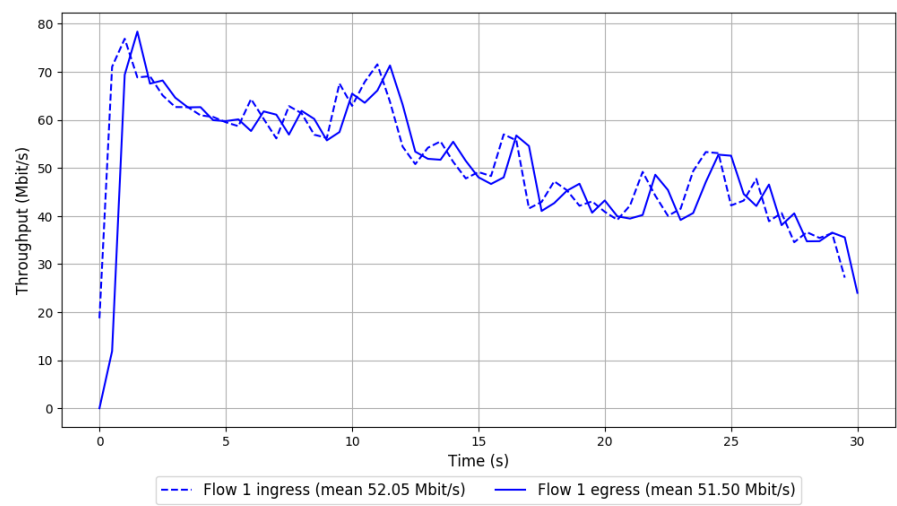
-- Flow 1:

Average throughput: 51.50 Mbit/s

95th percentile per-packet one-way delay: 41.525 ms

Loss rate: 1.31%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-06-30 07:57:47

End at: 2018-06-30 07:58:17

Local clock offset: 1.067 ms

Remote clock offset: 4.267 ms

Below is generated by plot.py at 2018-06-30 10:42:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 56.09 Mbit/s

95th percentile per-packet one-way delay: 41.175 ms

Loss rate: 1.28%

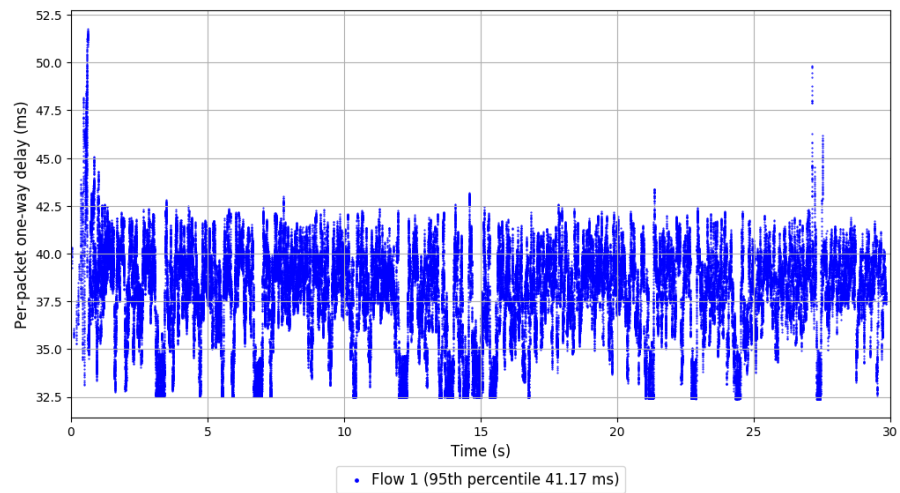
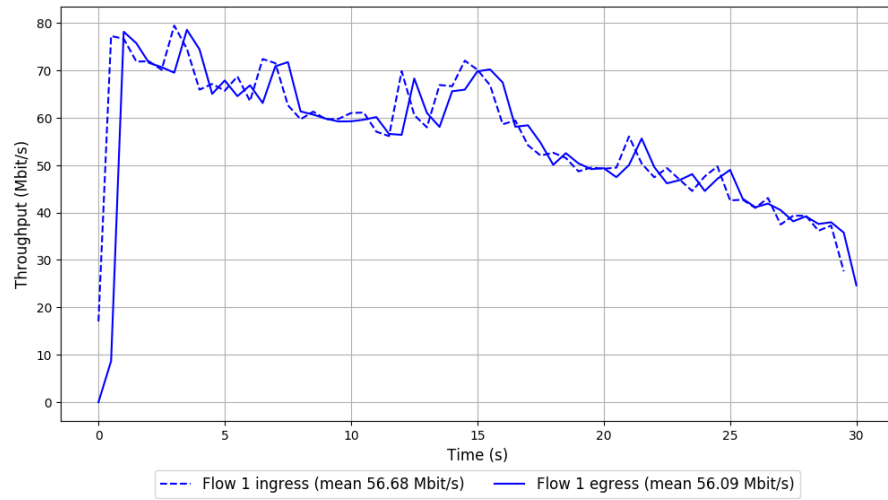
-- Flow 1:

Average throughput: 56.09 Mbit/s

95th percentile per-packet one-way delay: 41.175 ms

Loss rate: 1.28%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-06-30 08:23:43

End at: 2018-06-30 08:24:13

Local clock offset: 0.822 ms

Remote clock offset: 0.042 ms

Below is generated by plot.py at 2018-06-30 10:42:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 42.17 Mbit/s

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

Loss rate: 1.12%

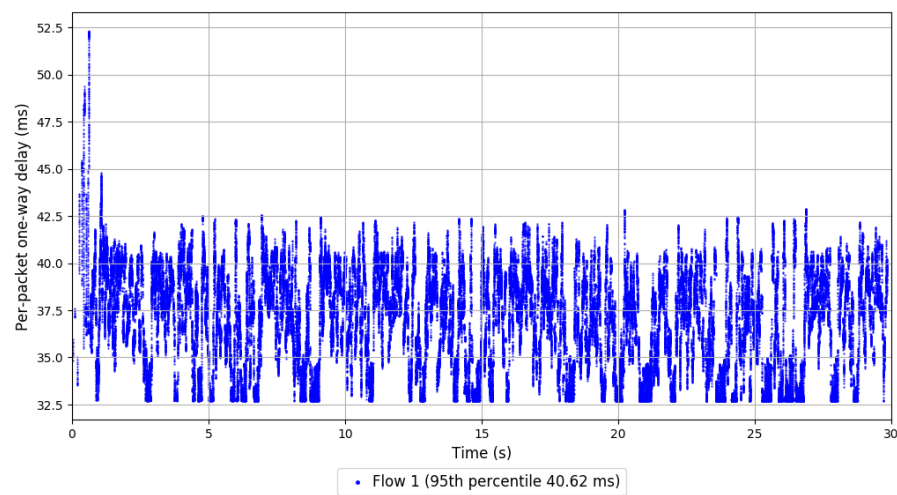
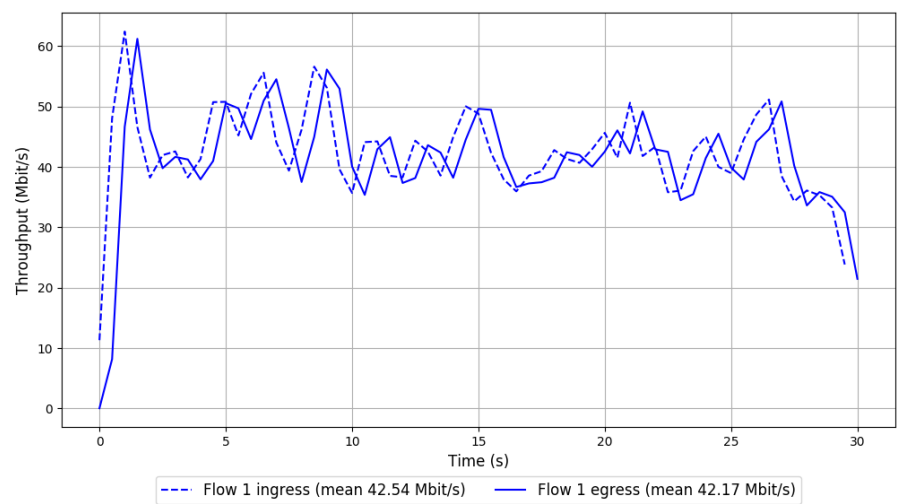
-- Flow 1:

Average throughput: 42.17 Mbit/s

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

Loss rate: 1.12%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2018-06-30 08:49:01

End at: 2018-06-30 08:49:31

Local clock offset: 0.621 ms

Remote clock offset: 0.906 ms

Below is generated by plot.py at 2018-06-30 10:43:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.41 Mbit/s

95th percentile per-packet one-way delay: 40.843 ms

Loss rate: 0.75%

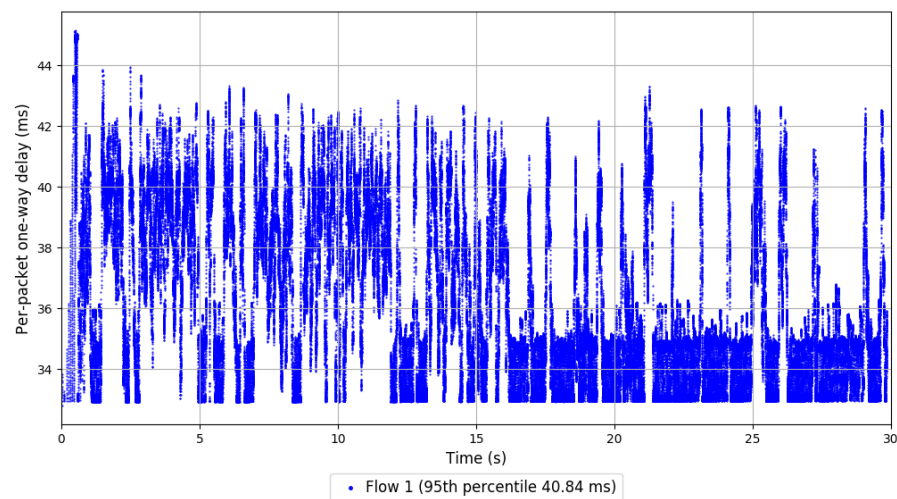
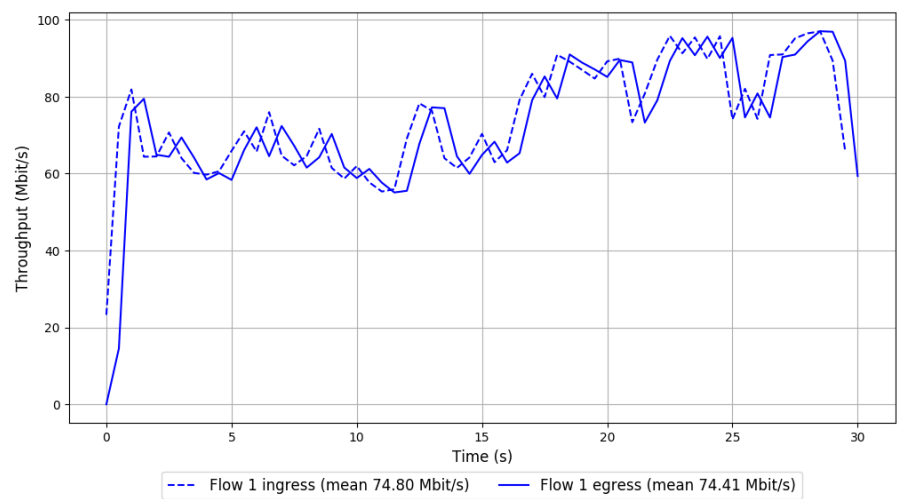
-- Flow 1:

Average throughput: 74.41 Mbit/s

95th percentile per-packet one-way delay: 40.843 ms

Loss rate: 0.75%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2018-06-30 09:14:23

End at: 2018-06-30 09:14:53

Local clock offset: 0.234 ms

Remote clock offset: 1.857 ms

Below is generated by plot.py at 2018-06-30 10:43:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.17 Mbit/s

95th percentile per-packet one-way delay: 42.904 ms

Loss rate: 1.15%

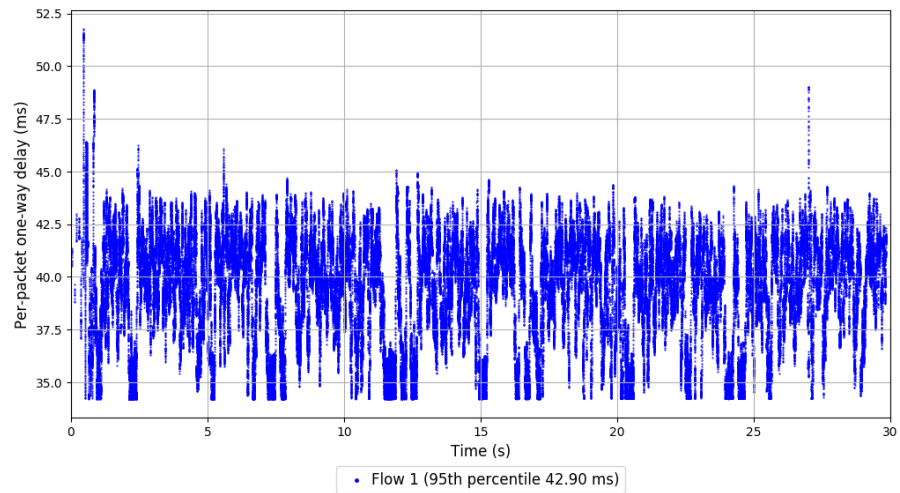
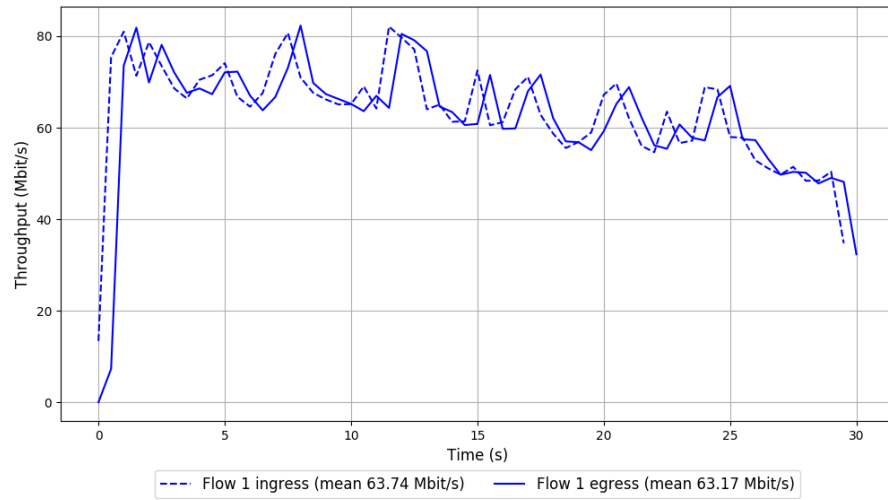
-- Flow 1:

Average throughput: 63.17 Mbit/s

95th percentile per-packet one-way delay: 42.904 ms

Loss rate: 1.15%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2018-06-30 09:38:23

End at: 2018-06-30 09:38:53

Local clock offset: 0.279 ms

Remote clock offset: 3.87 ms

Below is generated by plot.py at 2018-06-30 10:43:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.36 Mbit/s

95th percentile per-packet one-way delay: 40.301 ms

Loss rate: 0.43%

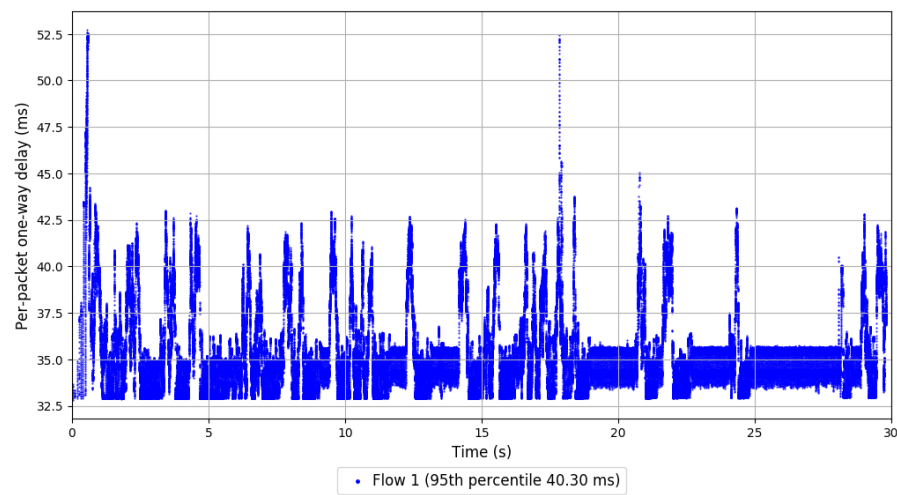
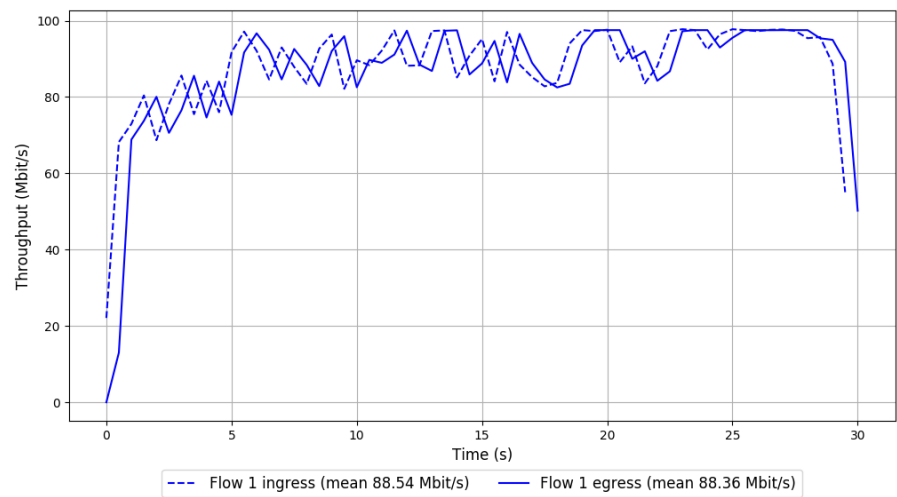
-- Flow 1:

Average throughput: 88.36 Mbit/s

95th percentile per-packet one-way delay: 40.301 ms

Loss rate: 0.43%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2018-06-30 10:01:13

End at: 2018-06-30 10:01:43

Local clock offset: 0.174 ms

Remote clock offset: 6.347 ms

Below is generated by plot.py at 2018-06-30 10:43:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.63 Mbit/s

95th percentile per-packet one-way delay: 39.988 ms

Loss rate: 0.41%

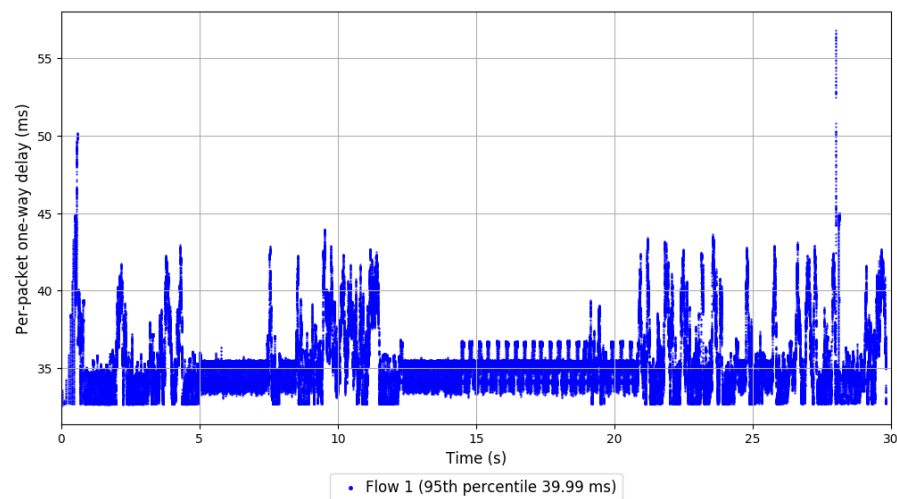
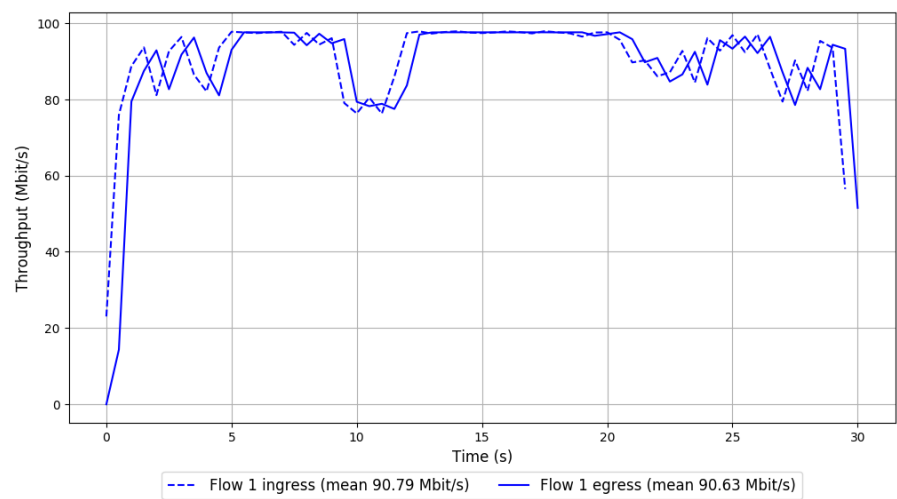
-- Flow 1:

Average throughput: 90.63 Mbit/s

95th percentile per-packet one-way delay: 39.988 ms

Loss rate: 0.41%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-06-30 10:24:09

End at: 2018-06-30 10:24:39

Local clock offset: 0.206 ms

Remote clock offset: 5.103 ms

Below is generated by plot.py at 2018-06-30 10:43:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.53 Mbit/s

95th percentile per-packet one-way delay: 36.159 ms

Loss rate: 0.26%

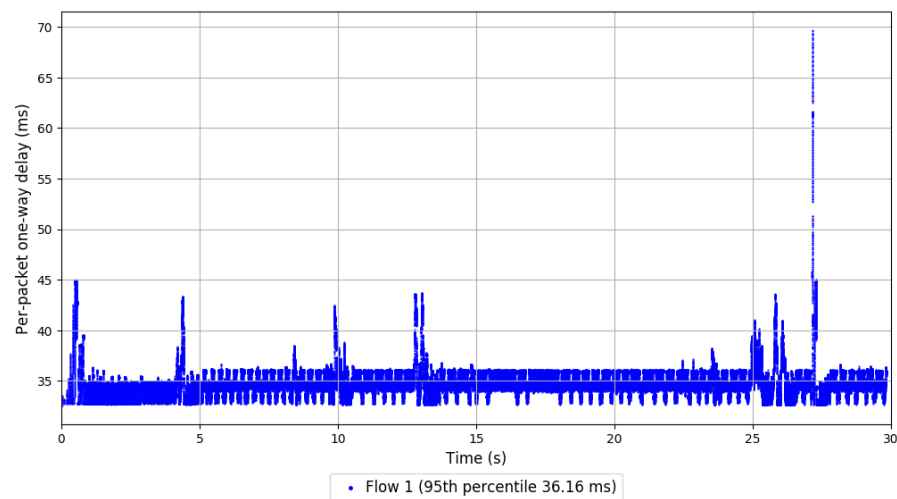
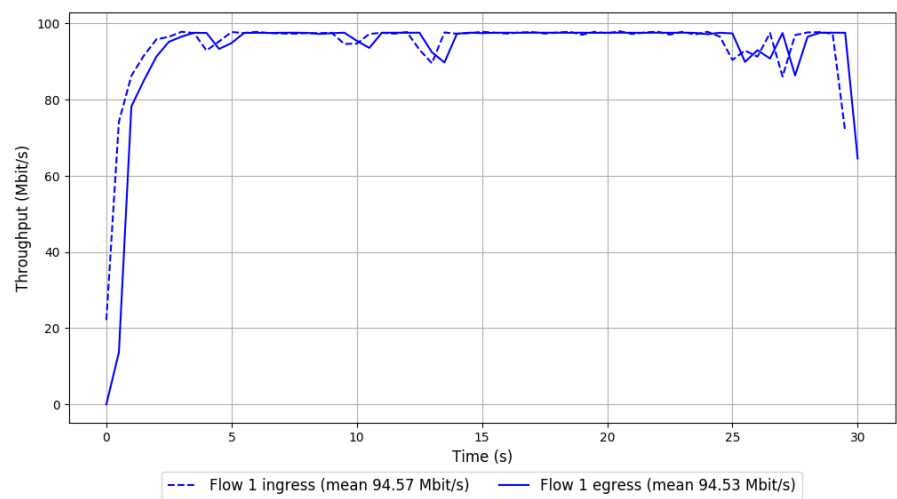
-- Flow 1:

Average throughput: 94.53 Mbit/s

95th percentile per-packet one-way delay: 36.159 ms

Loss rate: 0.26%

Run 10: Report of Indigo — Data Link

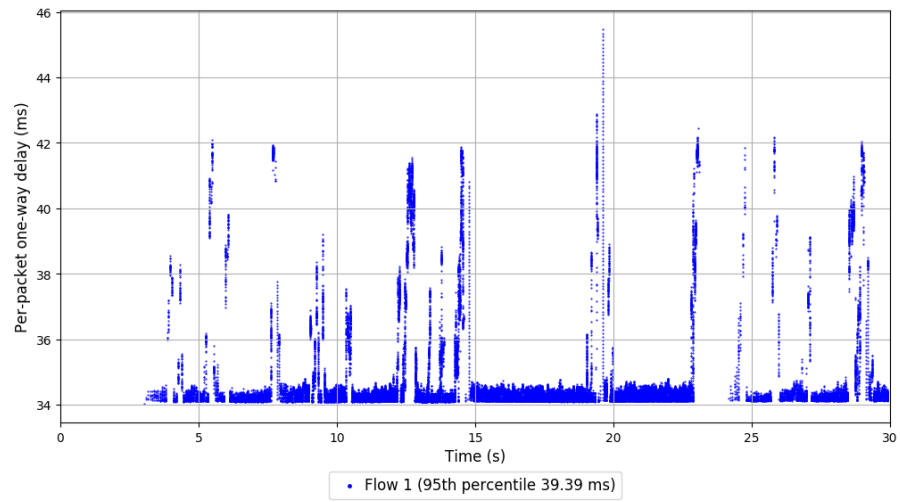
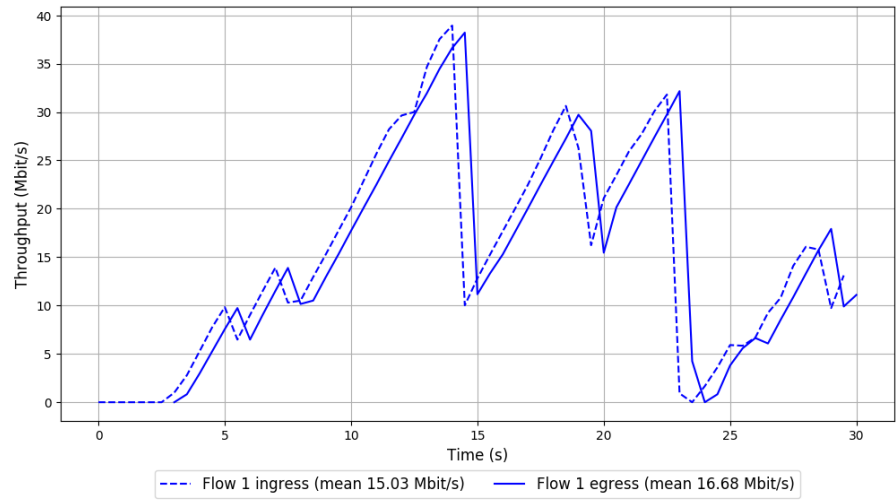


```
Run 1: Statistics of LEDBAT

Start at: 2018-06-30 06:33:35
End at: 2018-06-30 06:34:05
Local clock offset: 0.828 ms
Remote clock offset: 4.728 ms

# Below is generated by plot.py at 2018-06-30 10:43:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 16.68 Mbit/s
95th percentile per-packet one-way delay: 39.394 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 16.68 Mbit/s
95th percentile per-packet one-way delay: 39.394 ms
Loss rate: 0.44%
```

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-06-30 06:55:52

End at: 2018-06-30 06:56:22

Local clock offset: 0.741 ms

Remote clock offset: 4.534 ms

Below is generated by plot.py at 2018-06-30 10:43:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 18.67 Mbit/s

95th percentile per-packet one-way delay: 36.530 ms

Loss rate: 0.46%

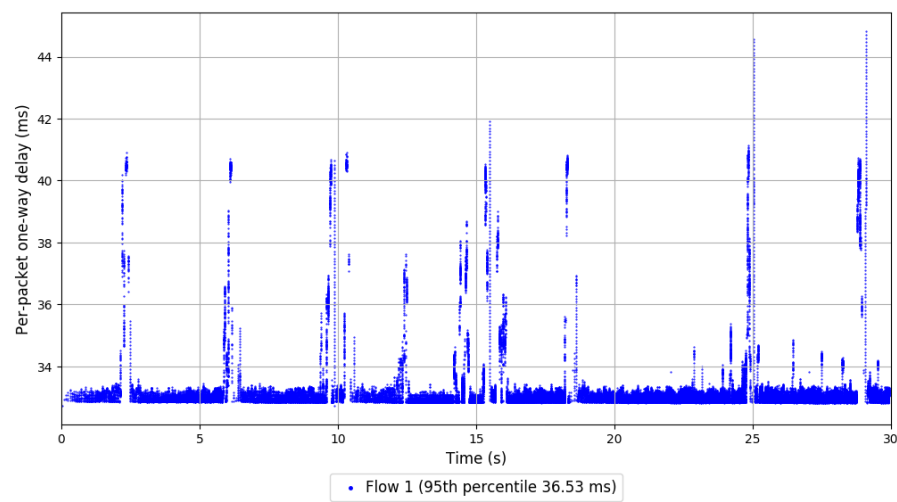
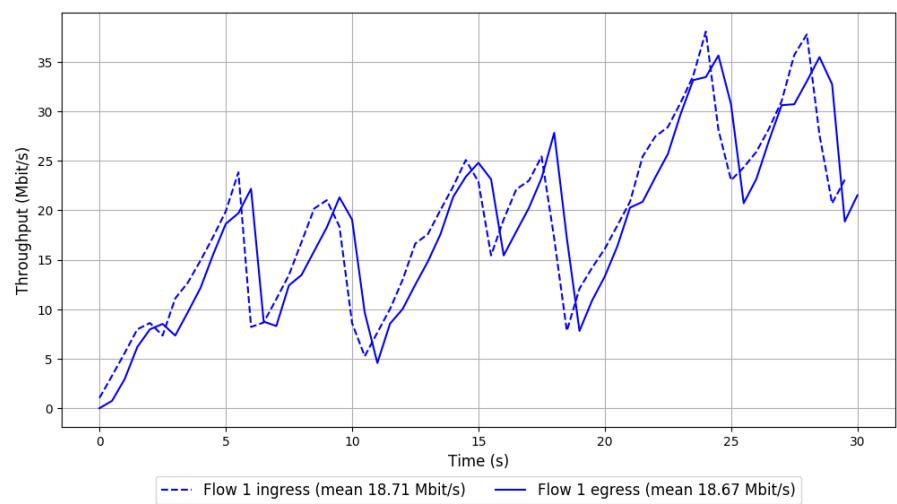
-- Flow 1:

Average throughput: 18.67 Mbit/s

95th percentile per-packet one-way delay: 36.530 ms

Loss rate: 0.46%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-06-30 07:21:15

End at: 2018-06-30 07:21:45

Local clock offset: 1.027 ms

Remote clock offset: 4.745 ms

Below is generated by plot.py at 2018-06-30 10:43:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.25 Mbit/s

95th percentile per-packet one-way delay: 41.563 ms

Loss rate: 1.45%

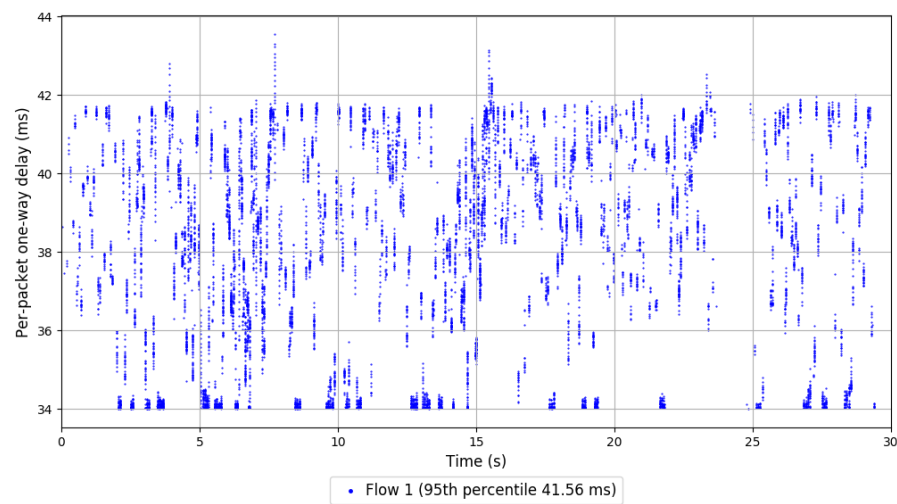
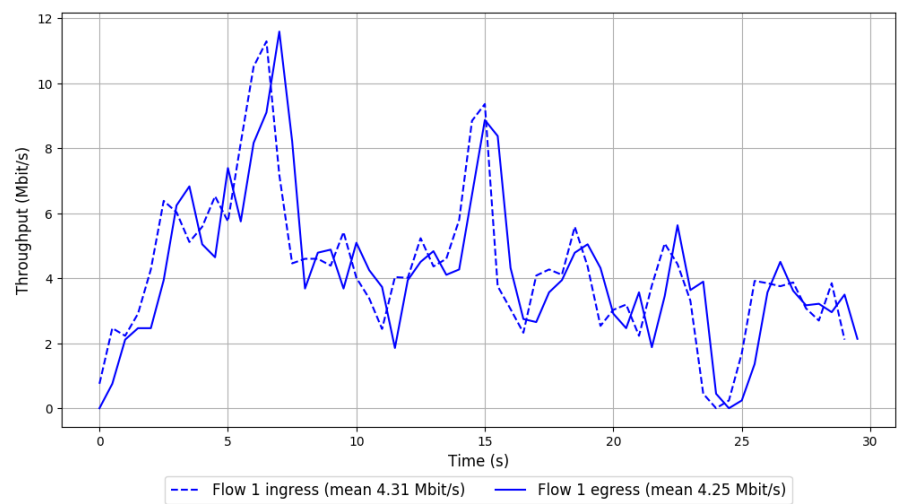
-- Flow 1:

Average throughput: 4.25 Mbit/s

95th percentile per-packet one-way delay: 41.563 ms

Loss rate: 1.45%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-06-30 07:47:08

End at: 2018-06-30 07:47:38

Local clock offset: 1.247 ms

Remote clock offset: 4.631 ms

Below is generated by plot.py at 2018-06-30 10:43:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.93 Mbit/s

95th percentile per-packet one-way delay: 40.498 ms

Loss rate: 2.20%

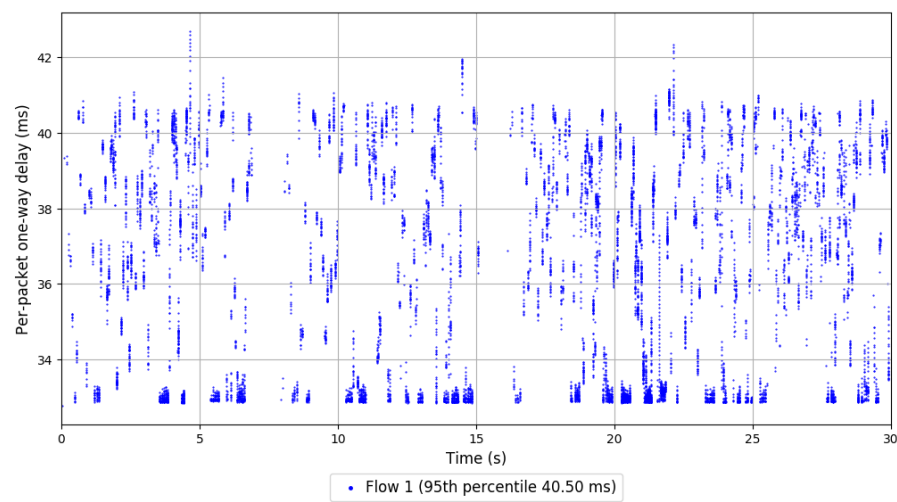
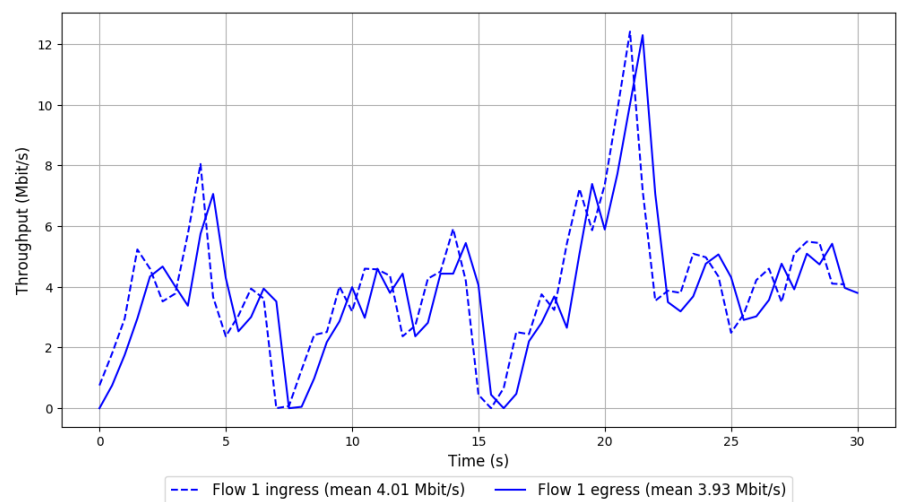
-- Flow 1:

Average throughput: 3.93 Mbit/s

95th percentile per-packet one-way delay: 40.498 ms

Loss rate: 2.20%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-06-30 08:13:27

End at: 2018-06-30 08:13:57

Local clock offset: 1.087 ms

Remote clock offset: 0.506 ms

Below is generated by plot.py at 2018-06-30 10:43:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.28 Mbit/s

95th percentile per-packet one-way delay: 40.697 ms

Loss rate: 1.73%

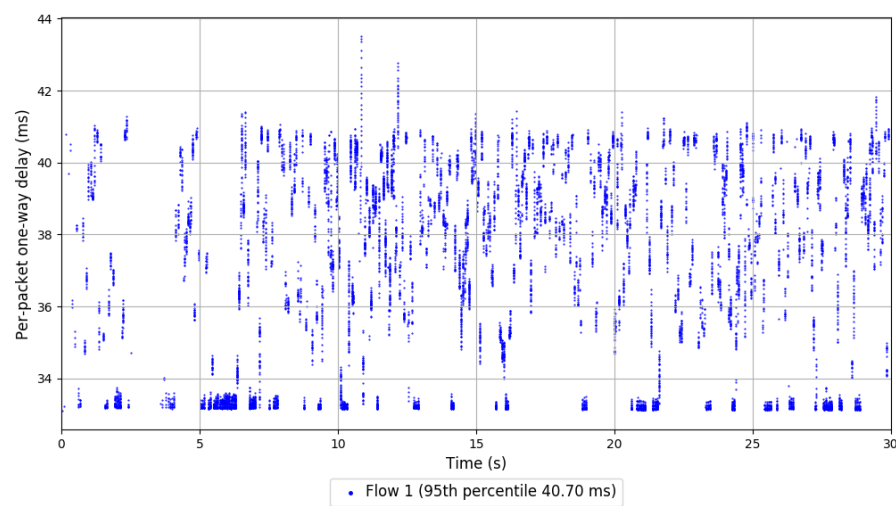
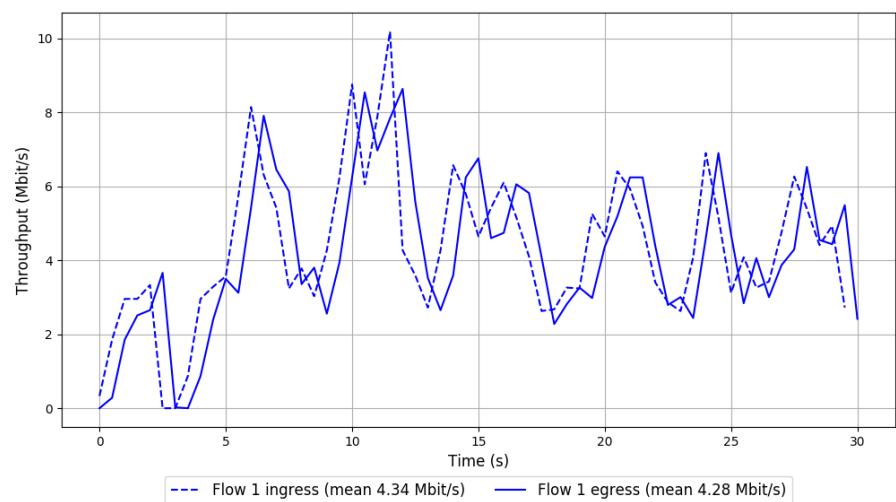
-- Flow 1:

Average throughput: 4.28 Mbit/s

95th percentile per-packet one-way delay: 40.697 ms

Loss rate: 1.73%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-06-30 08:38:46

End at: 2018-06-30 08:39:16

Local clock offset: 0.76 ms

Remote clock offset: 0.372 ms

Below is generated by plot.py at 2018-06-30 10:43:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.57 Mbit/s

95th percentile per-packet one-way delay: 40.437 ms

Loss rate: 1.84%

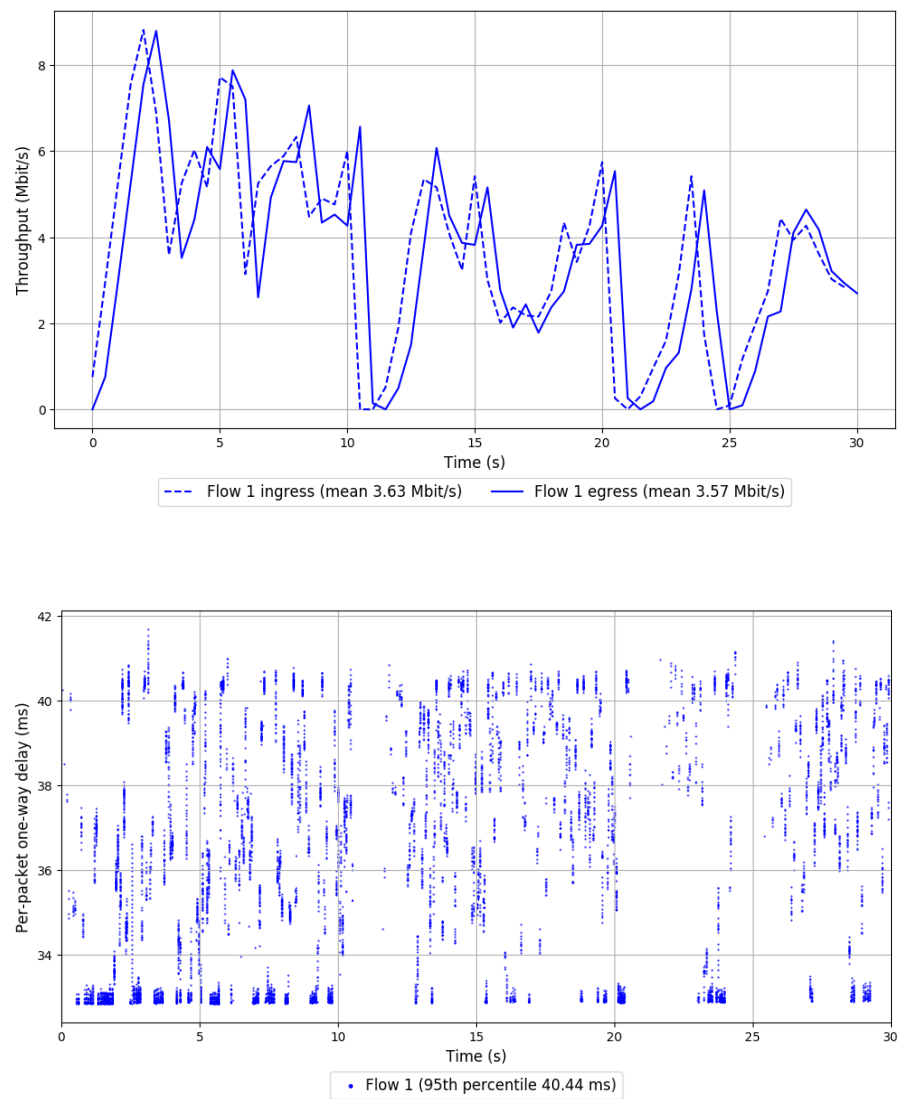
-- Flow 1:

Average throughput: 3.57 Mbit/s

95th percentile per-packet one-way delay: 40.437 ms

Loss rate: 1.84%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-06-30 09:03:46

End at: 2018-06-30 09:04:16

Local clock offset: 0.254 ms

Remote clock offset: 0.891 ms

Below is generated by plot.py at 2018-06-30 10:43:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.92 Mbit/s

95th percentile per-packet one-way delay: 40.919 ms

Loss rate: 1.95%

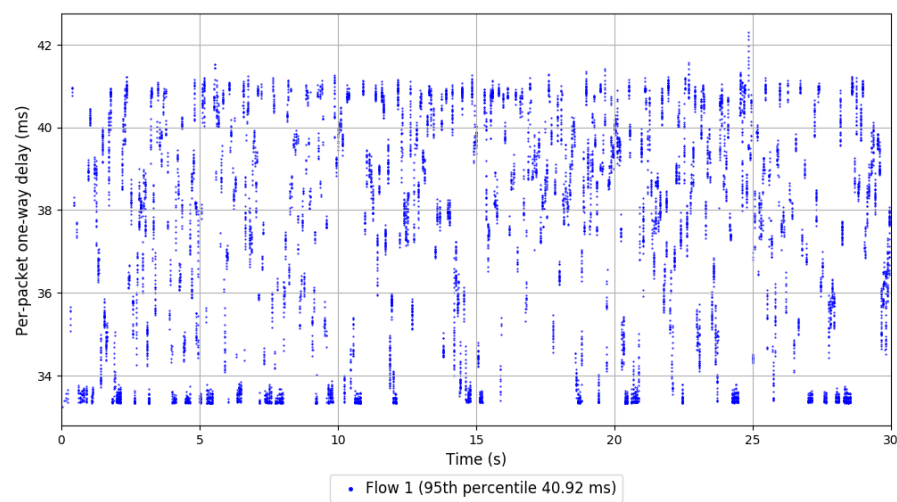
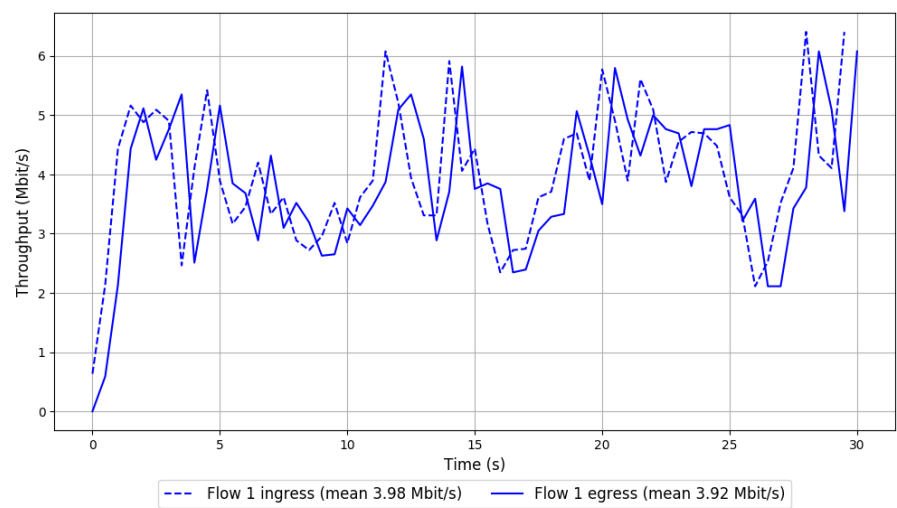
-- Flow 1:

Average throughput: 3.92 Mbit/s

95th percentile per-packet one-way delay: 40.919 ms

Loss rate: 1.95%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-06-30 09:28:37

End at: 2018-06-30 09:29:07

Local clock offset: 0.31 ms

Remote clock offset: 2.981 ms

Below is generated by plot.py at 2018-06-30 10:43:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 14.58 Mbit/s

95th percentile per-packet one-way delay: 38.327 ms

Loss rate: 0.34%

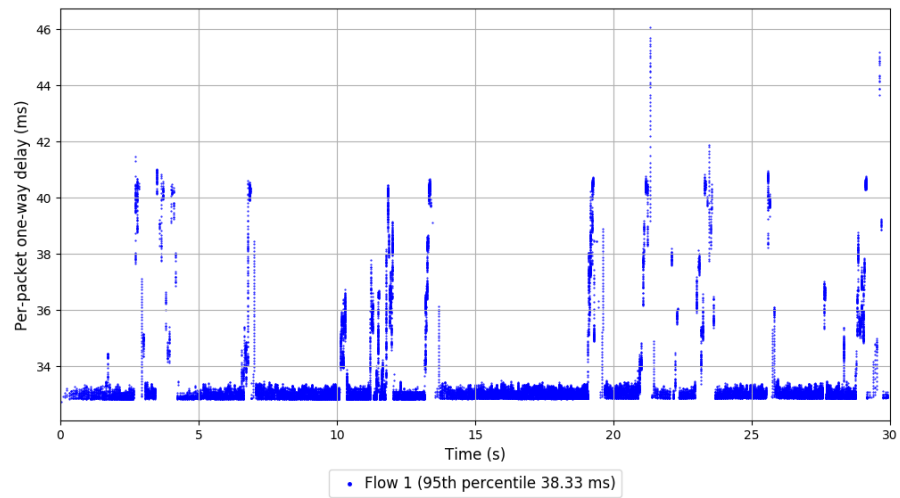
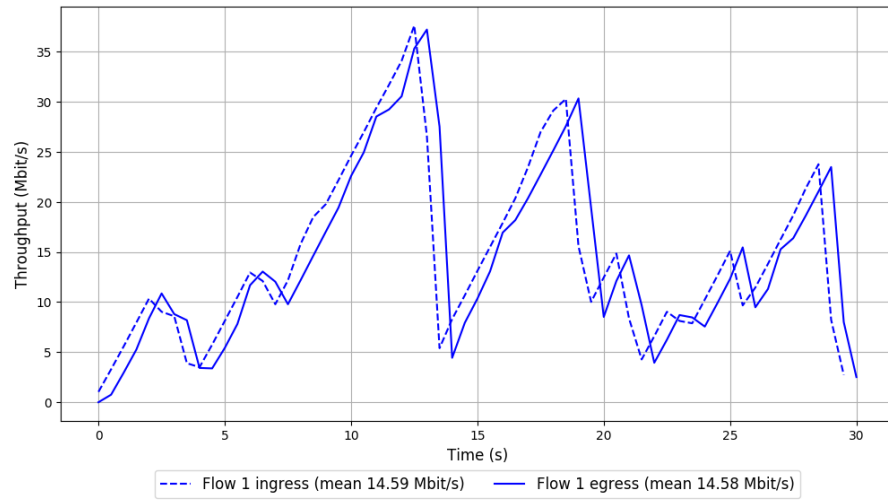
-- Flow 1:

Average throughput: 14.58 Mbit/s

95th percentile per-packet one-way delay: 38.327 ms

Loss rate: 0.34%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-06-30 09:51:47

End at: 2018-06-30 09:52:17

Local clock offset: 0.271 ms

Remote clock offset: 5.3 ms

Below is generated by plot.py at 2018-06-30 10:43:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 38.05 Mbit/s

95th percentile per-packet one-way delay: 34.842 ms

Loss rate: 0.31%

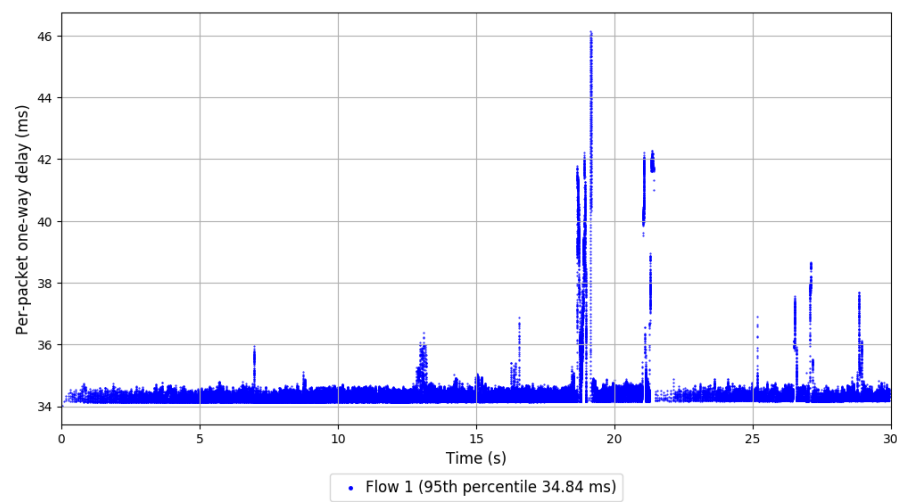
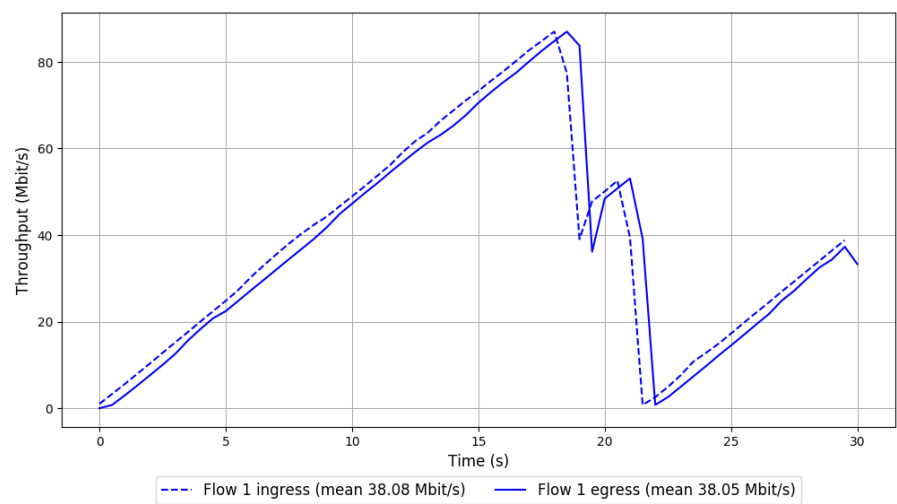
-- Flow 1:

Average throughput: 38.05 Mbit/s

95th percentile per-packet one-way delay: 34.842 ms

Loss rate: 0.31%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-06-30 10:14:44

End at: 2018-06-30 10:15:14

Local clock offset: 0.16 ms

Remote clock offset: 6.893 ms

Below is generated by plot.py at 2018-06-30 10:43:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 39.47 Mbit/s

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

Loss rate: 0.43%

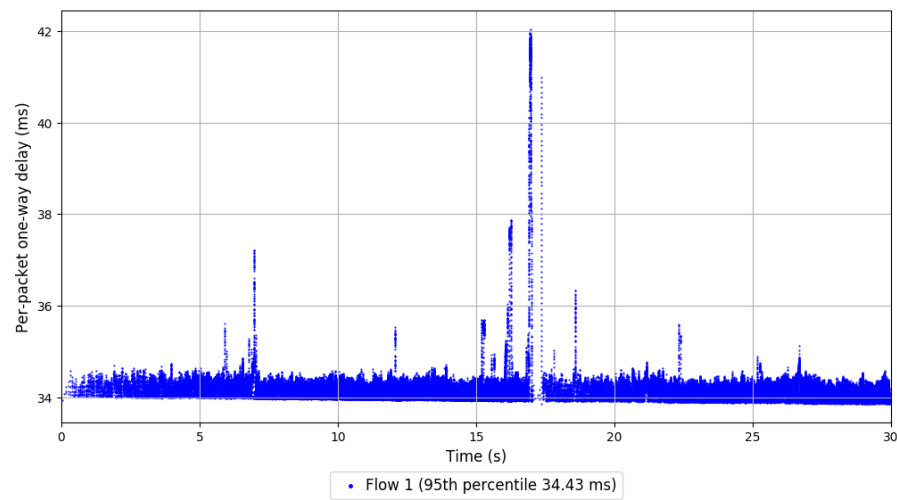
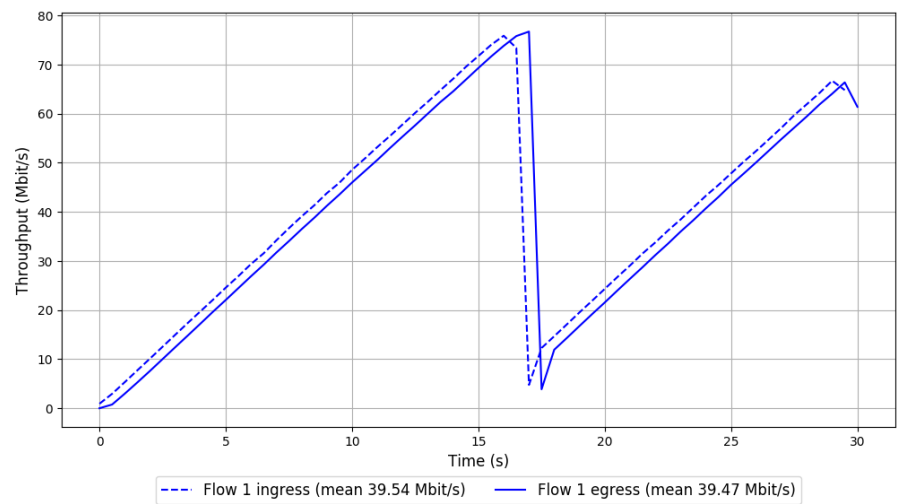
-- Flow 1:

Average throughput: 39.47 Mbit/s

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

Loss rate: 0.43%

Run 10: Report of LEDBAT — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2018-06-30 06:41:29

End at: 2018-06-30 06:41:59

Local clock offset: 0.426 ms

Remote clock offset: 4.769 ms

Below is generated by plot.py at 2018-06-30 10:44:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.91 Mbit/s

95th percentile per-packet one-way delay: 44.757 ms

Loss rate: 0.65%

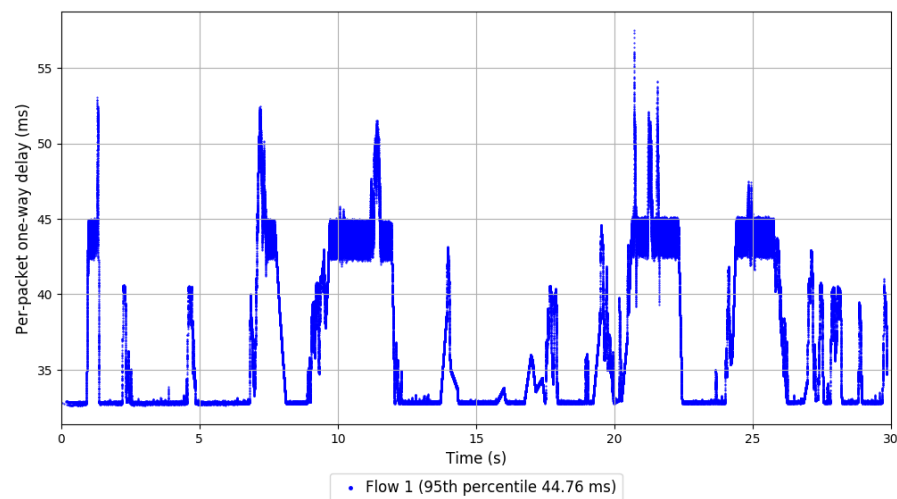
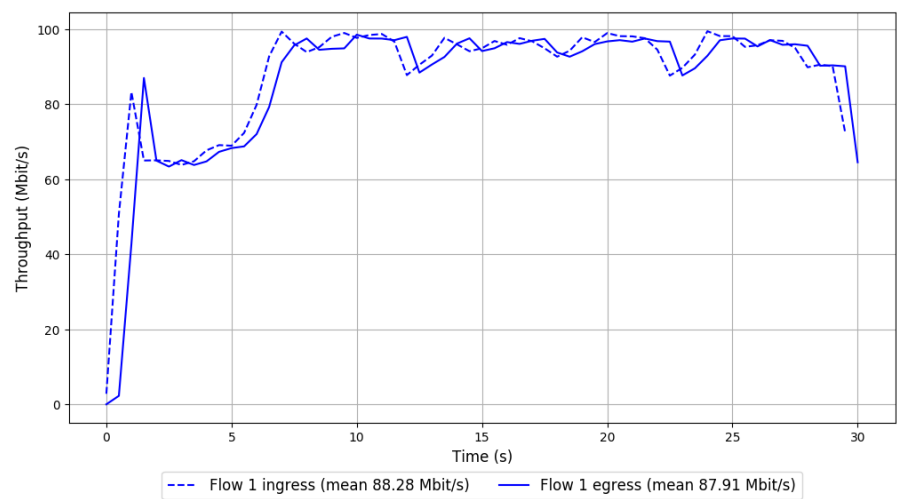
-- Flow 1:

Average throughput: 87.91 Mbit/s

95th percentile per-packet one-way delay: 44.757 ms

Loss rate: 0.65%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-06-30 07:05:00

End at: 2018-06-30 07:05:30

Local clock offset: 0.705 ms

Remote clock offset: 4.376 ms

Below is generated by plot.py at 2018-06-30 10:44:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.33 Mbit/s

95th percentile per-packet one-way delay: 40.102 ms

Loss rate: 1.05%

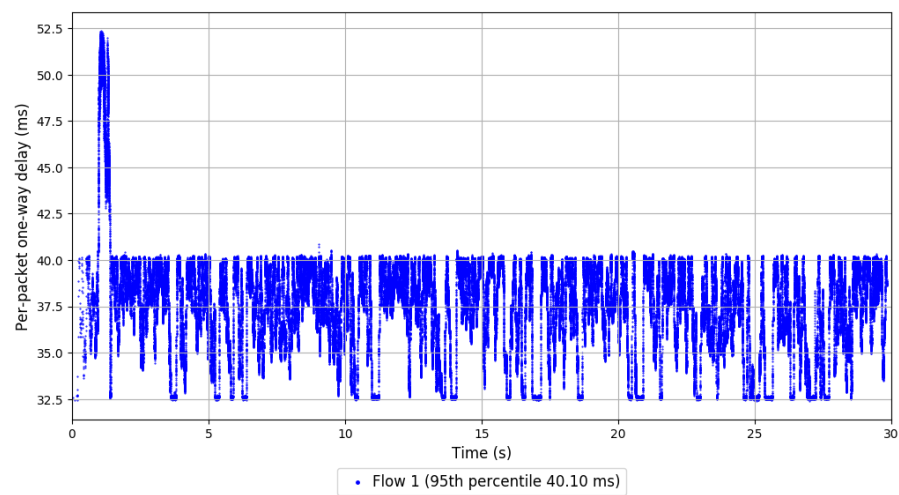
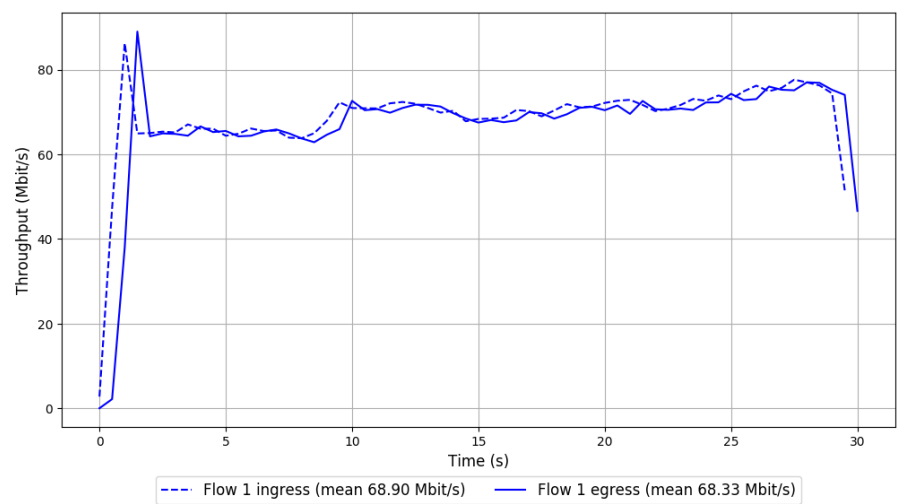
-- Flow 1:

Average throughput: 68.33 Mbit/s

95th percentile per-packet one-way delay: 40.102 ms

Loss rate: 1.05%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-06-30 07:30:21

End at: 2018-06-30 07:30:51

Local clock offset: 1.195 ms

Remote clock offset: 4.496 ms

Below is generated by plot.py at 2018-06-30 10:44:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 16.14 Mbit/s

95th percentile per-packet one-way delay: 40.130 ms

Loss rate: 1.17%

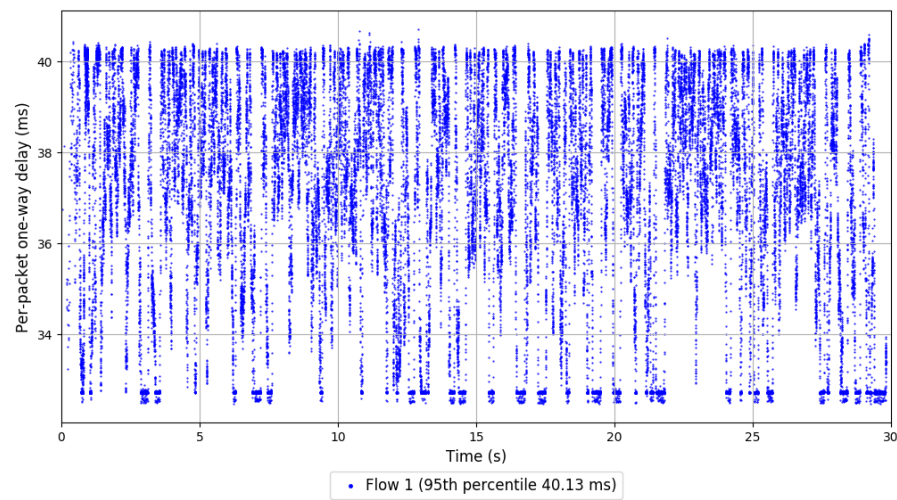
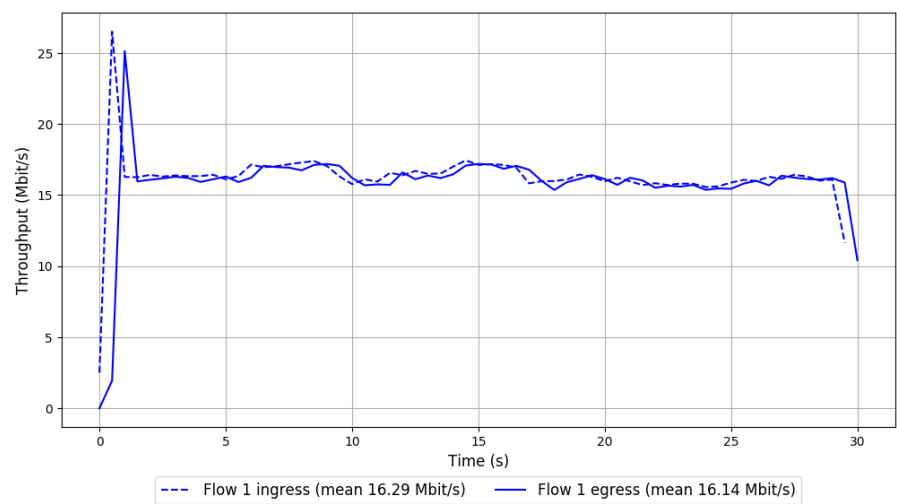
-- Flow 1:

Average throughput: 16.14 Mbit/s

95th percentile per-packet one-way delay: 40.130 ms

Loss rate: 1.17%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-06-30 07:56:19

End at: 2018-06-30 07:56:49

Local clock offset: 1.155 ms

Remote clock offset: 5.218 ms

Below is generated by plot.py at 2018-06-30 10:44:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 30.78 Mbit/s

95th percentile per-packet one-way delay: 41.168 ms

Loss rate: 1.13%

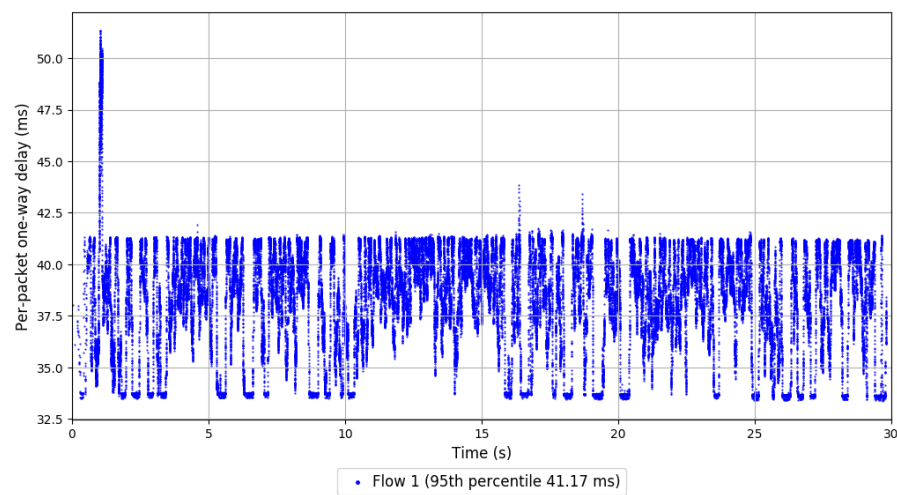
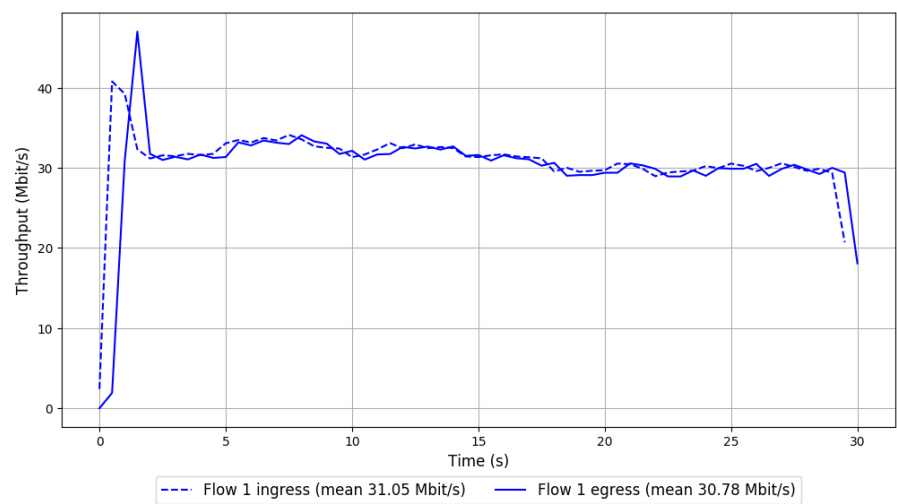
-- Flow 1:

Average throughput: 30.78 Mbit/s

95th percentile per-packet one-way delay: 41.168 ms

Loss rate: 1.13%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-06-30 08:22:14

End at: 2018-06-30 08:22:44

Local clock offset: 0.849 ms

Remote clock offset: -0.468 ms

Below is generated by plot.py at 2018-06-30 10:44:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.57 Mbit/s

95th percentile per-packet one-way delay: 40.764 ms

Loss rate: 1.05%

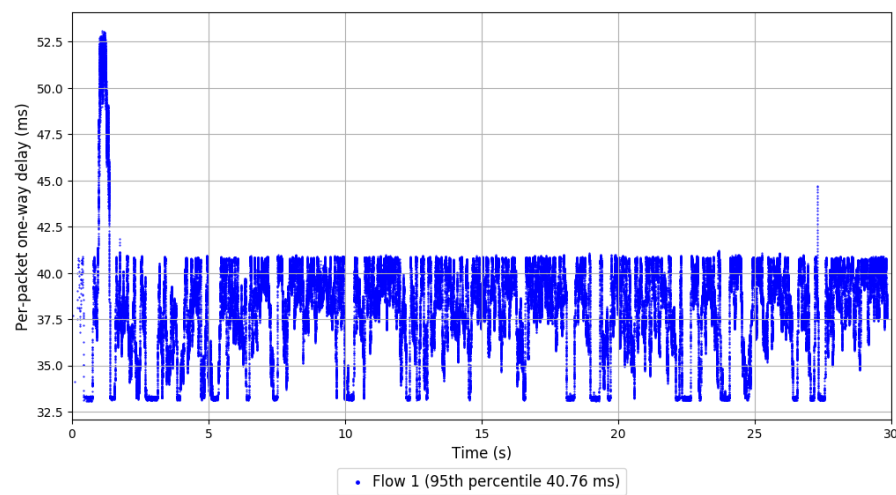
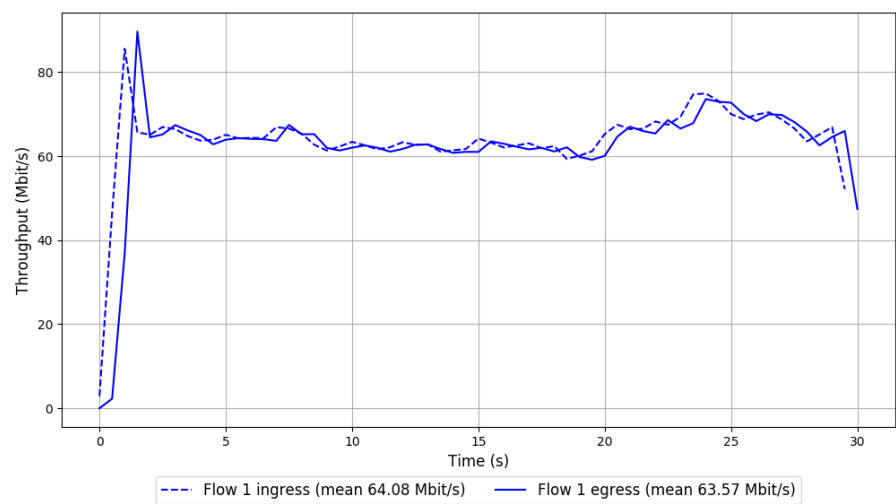
-- Flow 1:

Average throughput: 63.57 Mbit/s

95th percentile per-packet one-way delay: 40.764 ms

Loss rate: 1.05%

Run 5: Report of PCC-Allegro — Data Link



Run 6: Statistics of PCC-Allegro

Start at: 2018-06-30 08:47:42

End at: 2018-06-30 08:48:12

Local clock offset: 0.552 ms

Remote clock offset: 0.875 ms

Below is generated by plot.py at 2018-06-30 10:44:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 18.89 Mbit/s

95th percentile per-packet one-way delay: 40.143 ms

Loss rate: 1.03%

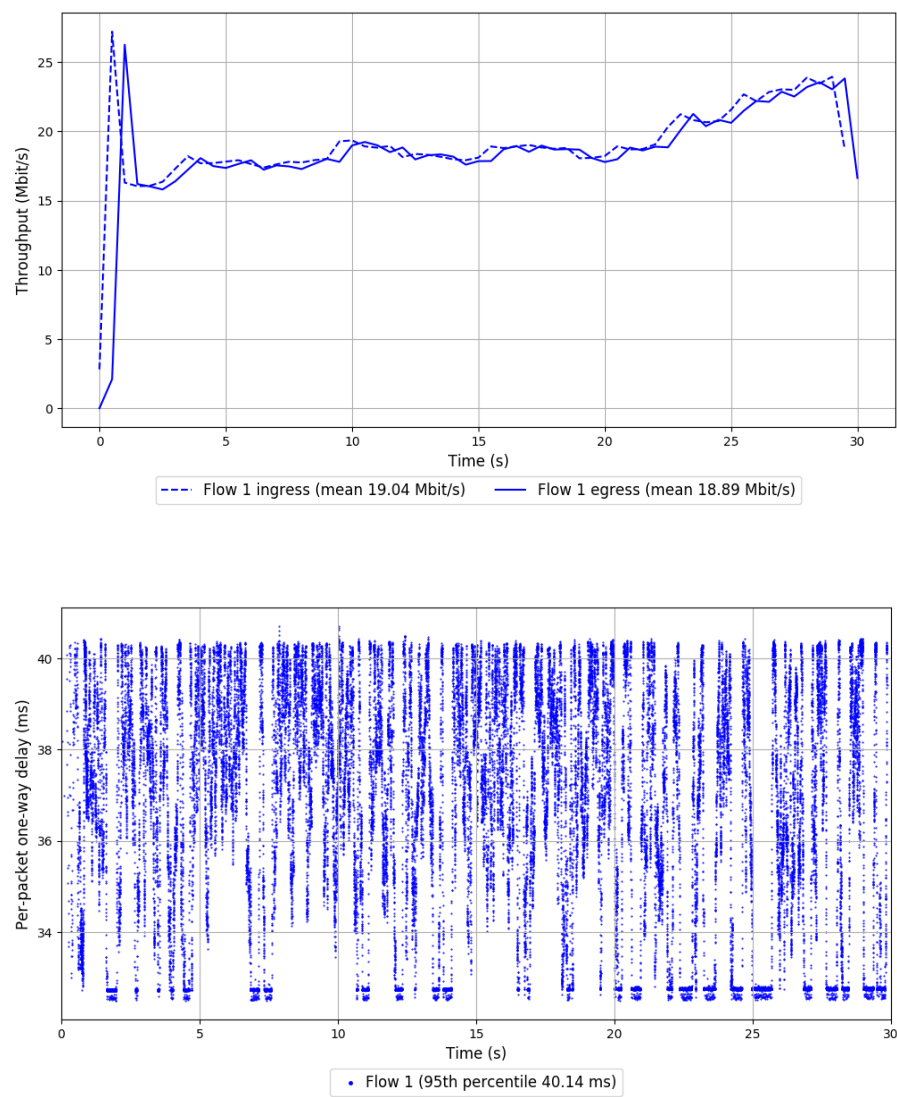
-- Flow 1:

Average throughput: 18.89 Mbit/s

95th percentile per-packet one-way delay: 40.143 ms

Loss rate: 1.03%

Run 6: Report of PCC-Allegro — Data Link



Run 7: Statistics of PCC-Allegro

Start at: 2018-06-30 09:12:50

End at: 2018-06-30 09:13:20

Local clock offset: 0.151 ms

Remote clock offset: 1.128 ms

Below is generated by plot.py at 2018-06-30 10:44:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.47 Mbit/s

95th percentile per-packet one-way delay: 40.884 ms

Loss rate: 1.18%

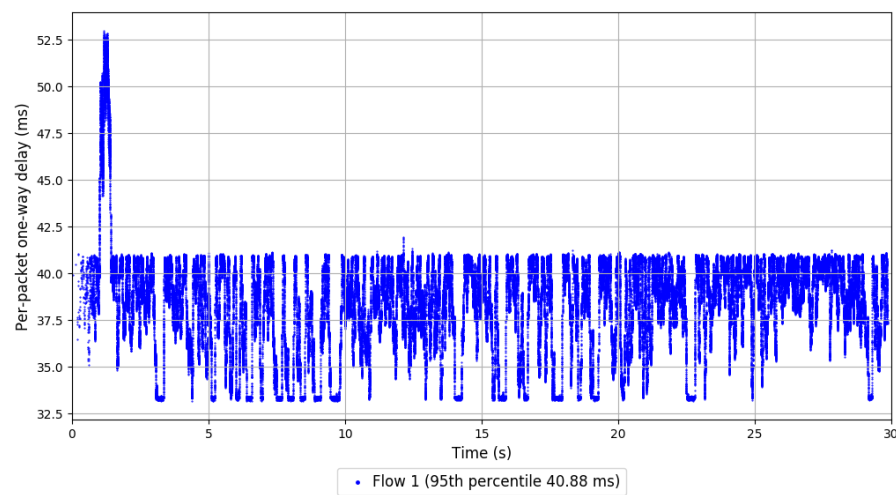
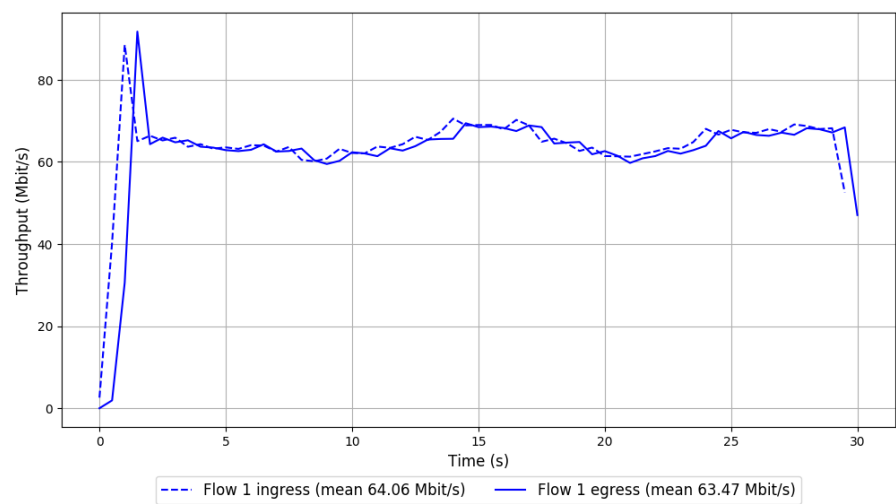
-- Flow 1:

Average throughput: 63.47 Mbit/s

95th percentile per-packet one-way delay: 40.884 ms

Loss rate: 1.18%

Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-06-30 09:36:56

End at: 2018-06-30 09:37:26

Local clock offset: 0.175 ms

Remote clock offset: 3.725 ms

Below is generated by plot.py at 2018-06-30 10:44:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.15 Mbit/s

95th percentile per-packet one-way delay: 43.130 ms

Loss rate: 0.60%

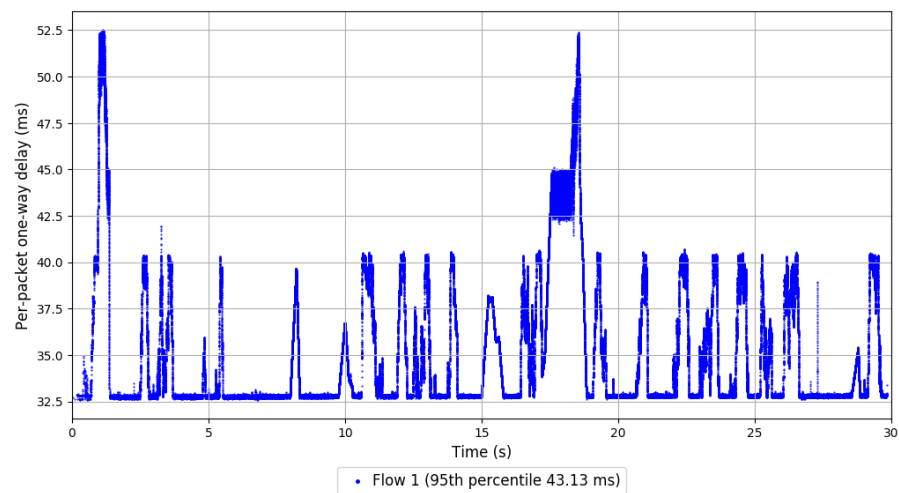
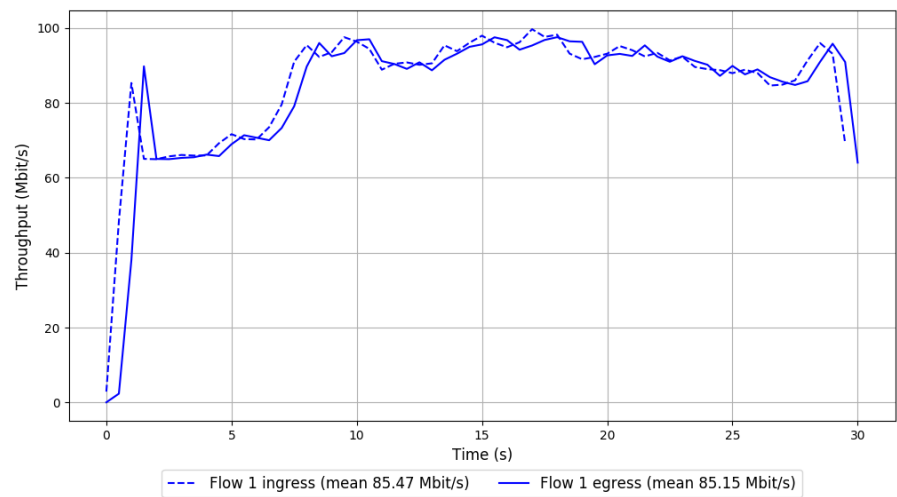
-- Flow 1:

Average throughput: 85.15 Mbit/s

95th percentile per-packet one-way delay: 43.130 ms

Loss rate: 0.60%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-06-30 09:59:54

End at: 2018-06-30 10:00:24

Local clock offset: 0.211 ms

Remote clock offset: 6.212 ms

Below is generated by plot.py at 2018-06-30 10:44:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.06 Mbit/s

95th percentile per-packet one-way delay: 43.793 ms

Loss rate: 0.48%

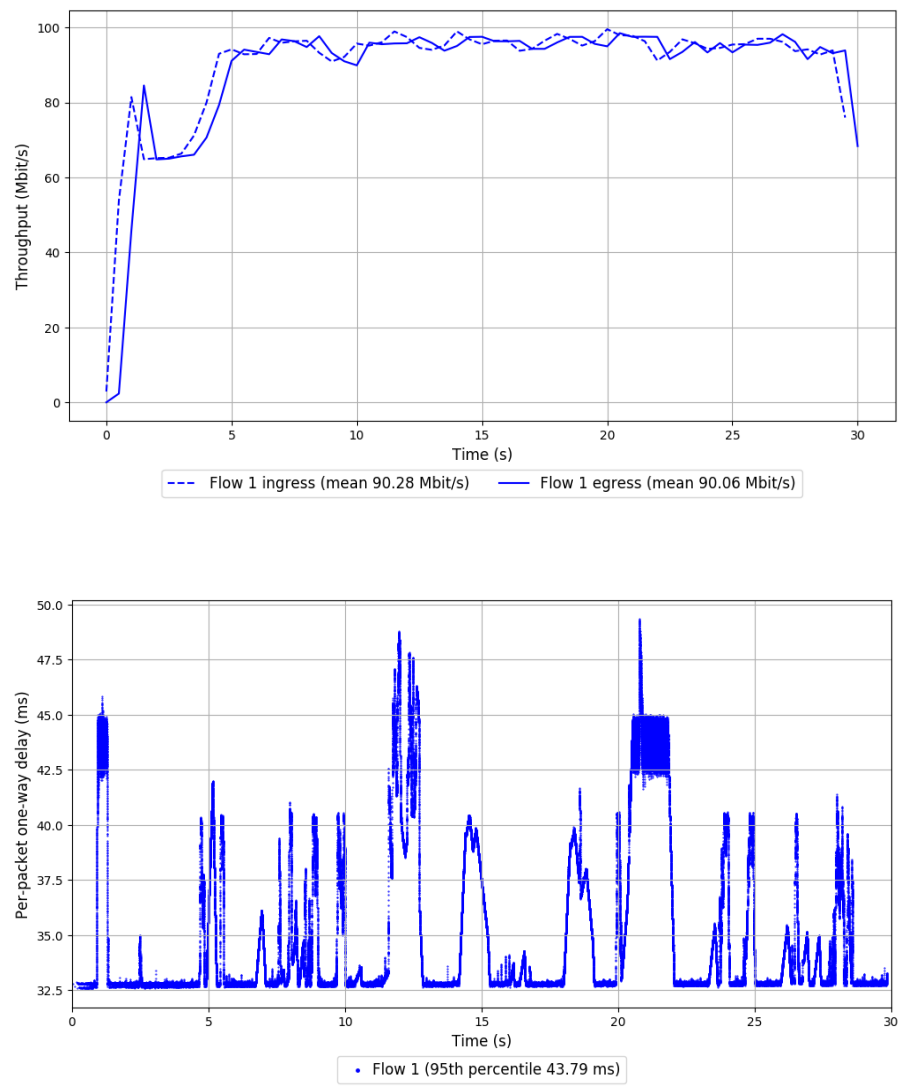
-- Flow 1:

Average throughput: 90.06 Mbit/s

95th percentile per-packet one-way delay: 43.793 ms

Loss rate: 0.48%

Run 9: Report of PCC-Allegro — Data Link



Run 10: Statistics of PCC-Allegro

Start at: 2018-06-30 10:22:49

End at: 2018-06-30 10:23:20

Local clock offset: 0.215 ms

Remote clock offset: 5.212 ms

Below is generated by plot.py at 2018-06-30 10:44:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.42 Mbit/s

95th percentile per-packet one-way delay: 43.626 ms

Loss rate: 0.33%

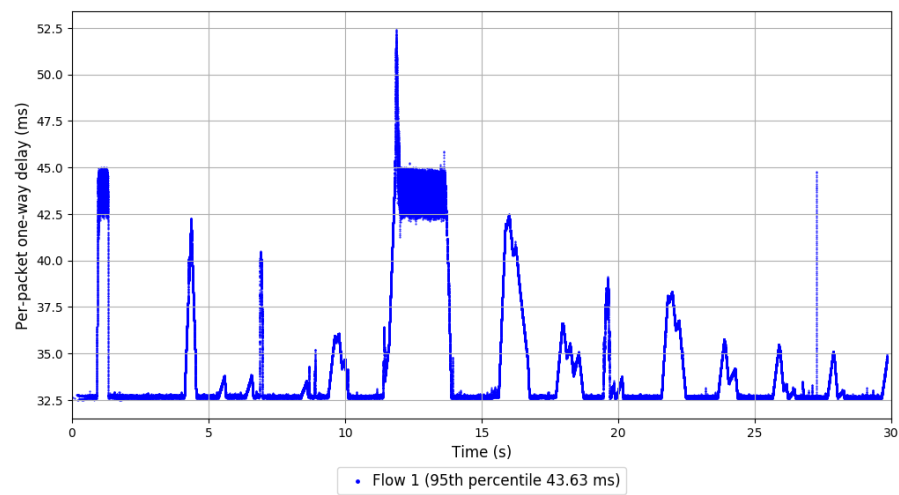
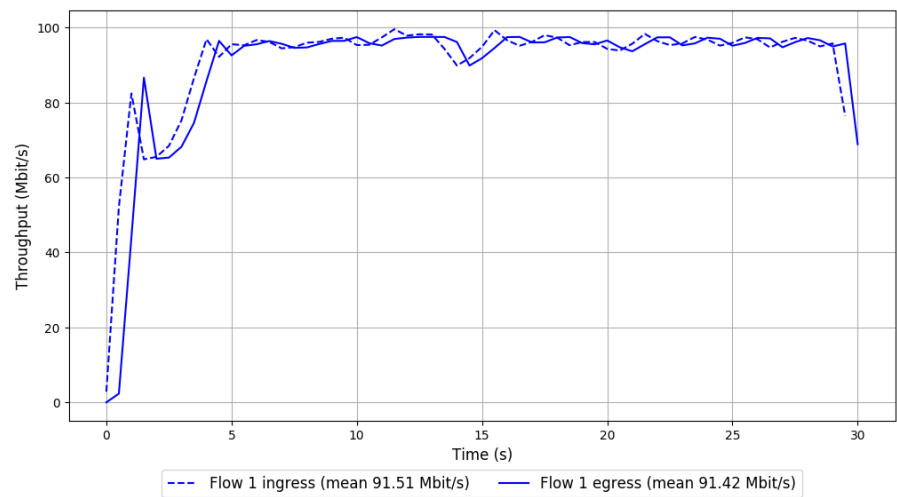
-- Flow 1:

Average throughput: 91.42 Mbit/s

95th percentile per-packet one-way delay: 43.626 ms

Loss rate: 0.33%

Run 10: Report of PCC-Allegro — Data Link

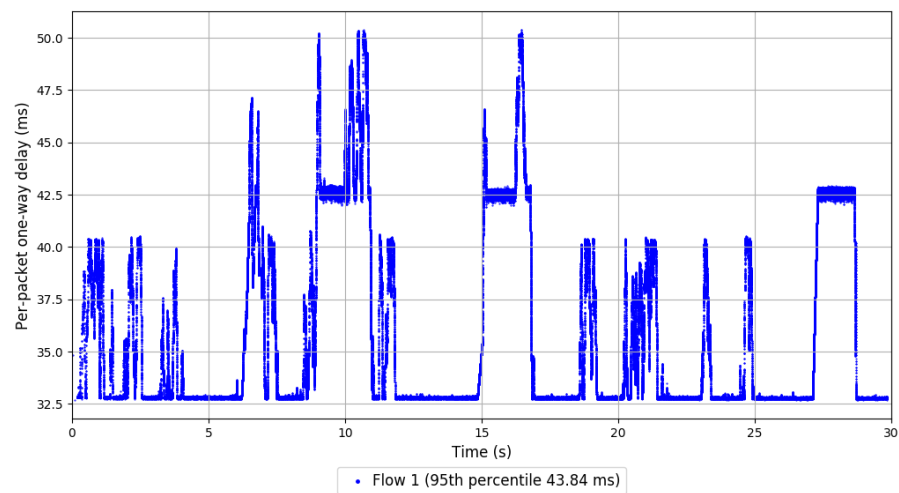
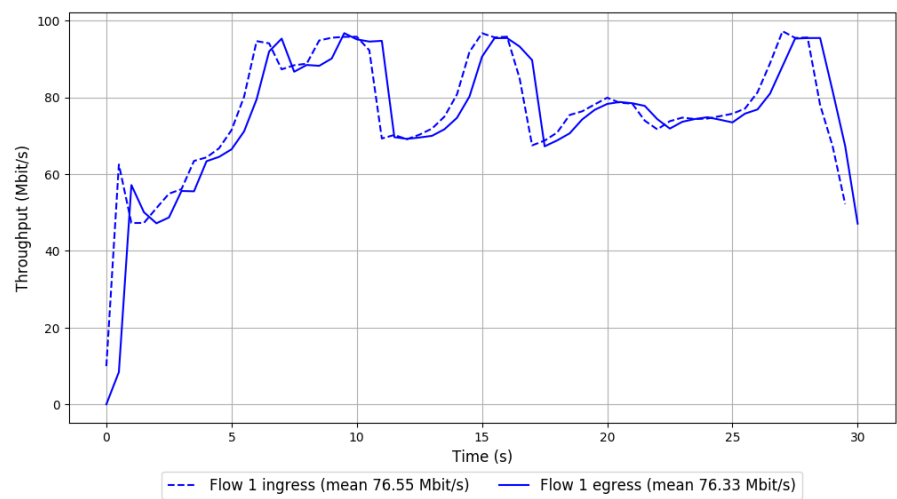


```
Run 1: Statistics of PCC-Expr

Start at: 2018-06-30 06:45:26
End at: 2018-06-30 06:45:56
Local clock offset: 0.261 ms
Remote clock offset: 4.966 ms

# Below is generated by plot.py at 2018-06-30 10:45:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.33 Mbit/s
95th percentile per-packet one-way delay: 43.838 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 76.33 Mbit/s
95th percentile per-packet one-way delay: 43.838 ms
Loss rate: 0.53%
```

Run 1: Report of PCC-Expr — Data Link



Run 2: Statistics of PCC-Expr

Start at: 2018-06-30 07:09:34

End at: 2018-06-30 07:10:04

Local clock offset: 0.704 ms

Remote clock offset: 4.323 ms

Below is generated by plot.py at 2018-06-30 10:45:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 9.52 Mbit/s

95th percentile per-packet one-way delay: 41.592 ms

Loss rate: 1.28%

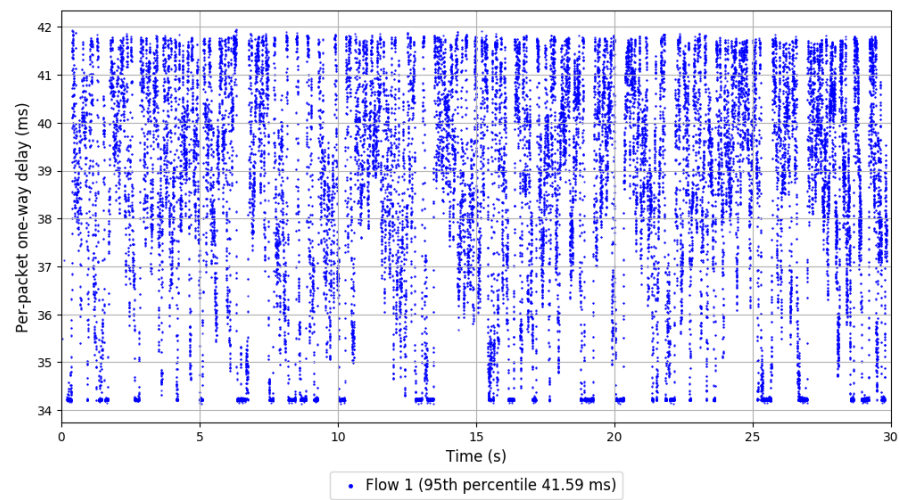
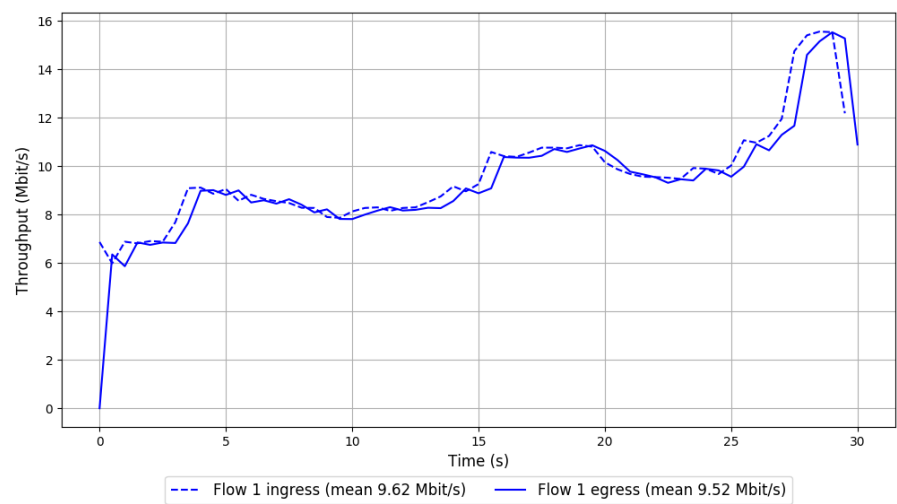
-- Flow 1:

Average throughput: 9.52 Mbit/s

95th percentile per-packet one-way delay: 41.592 ms

Loss rate: 1.28%

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2018-06-30 07:34:42

End at: 2018-06-30 07:35:12

Local clock offset: 1.229 ms

Remote clock offset: 4.448 ms

Below is generated by plot.py at 2018-06-30 10:45:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 22.18 Mbit/s

95th percentile per-packet one-way delay: 40.251 ms

Loss rate: 1.34%

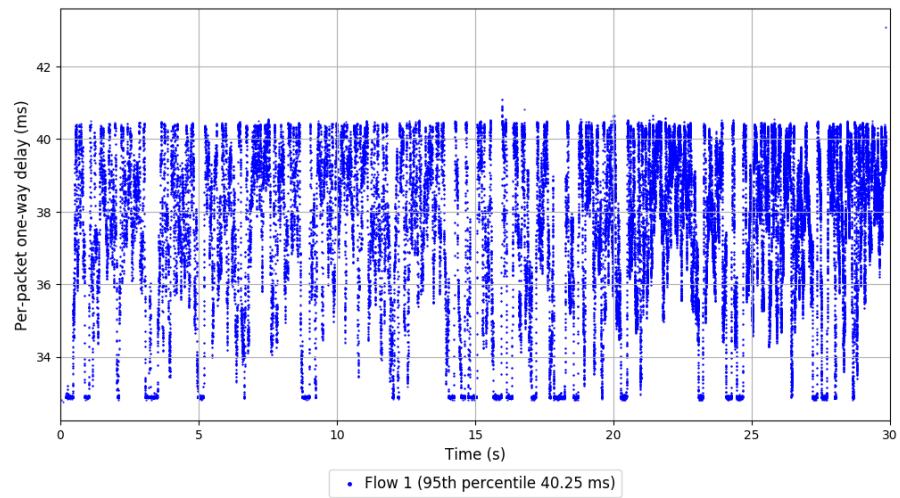
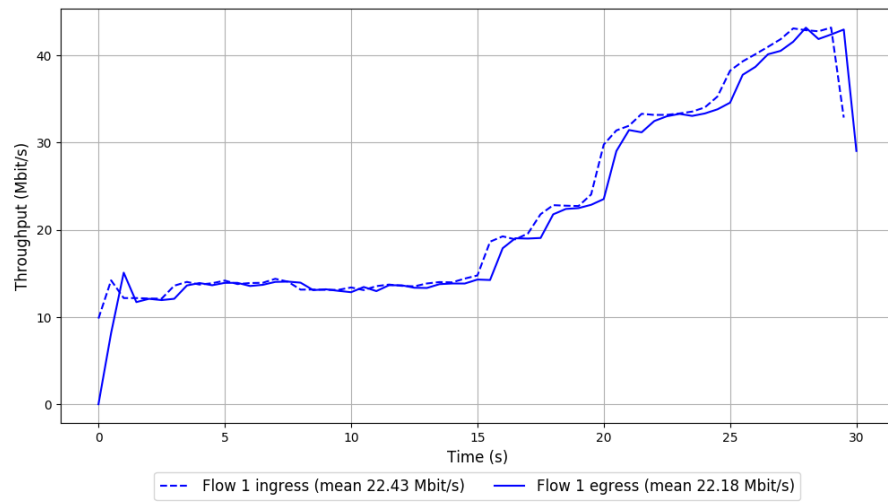
-- Flow 1:

Average throughput: 22.18 Mbit/s

95th percentile per-packet one-way delay: 40.251 ms

Loss rate: 1.34%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2018-06-30 08:00:47

End at: 2018-06-30 08:01:17

Local clock offset: 1.053 ms

Remote clock offset: 3.2 ms

Below is generated by plot.py at 2018-06-30 10:45:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.72 Mbit/s

95th percentile per-packet one-way delay: 41.312 ms

Loss rate: 1.29%

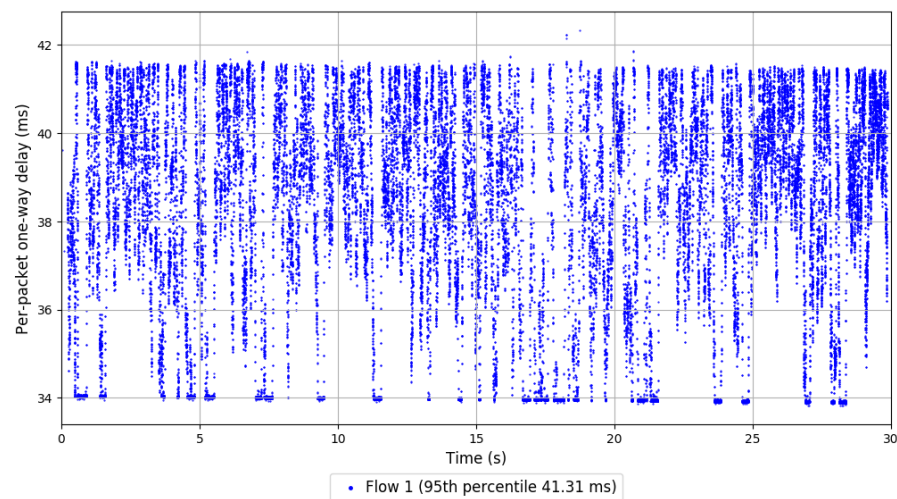
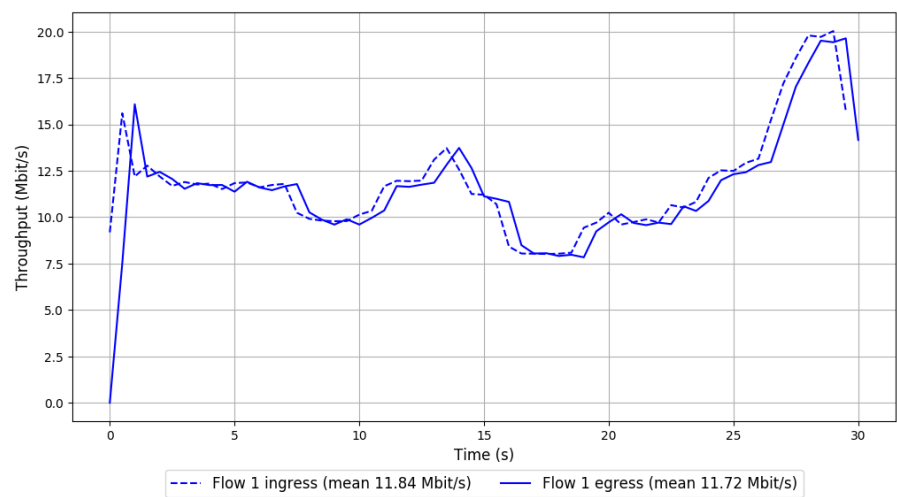
-- Flow 1:

Average throughput: 11.72 Mbit/s

95th percentile per-packet one-way delay: 41.312 ms

Loss rate: 1.29%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2018-06-30 08:26:32

End at: 2018-06-30 08:27:02

Local clock offset: 0.872 ms

Remote clock offset: -0.778 ms

Below is generated by plot.py at 2018-06-30 10:45:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 56.99 Mbit/s

95th percentile per-packet one-way delay: 49.503 ms

Loss rate: 1.23%

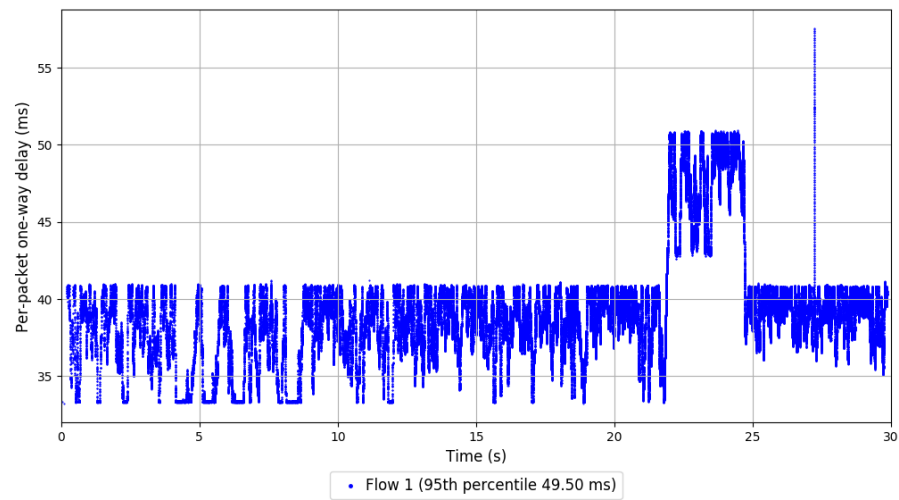
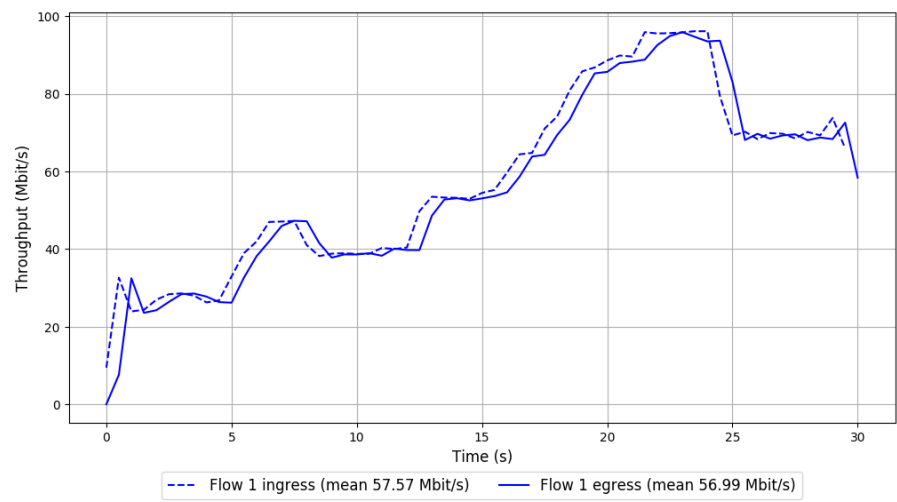
-- Flow 1:

Average throughput: 56.99 Mbit/s

95th percentile per-packet one-way delay: 49.503 ms

Loss rate: 1.23%

Run 5: Report of PCC-Expr — Data Link



Run 6: Statistics of PCC-Expr

Start at: 2018-06-30 08:51:47

End at: 2018-06-30 08:52:17

Local clock offset: 0.541 ms

Remote clock offset: 1.018 ms

Below is generated by plot.py at 2018-06-30 10:45:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 28.92 Mbit/s

95th percentile per-packet one-way delay: 40.366 ms

Loss rate: 1.02%

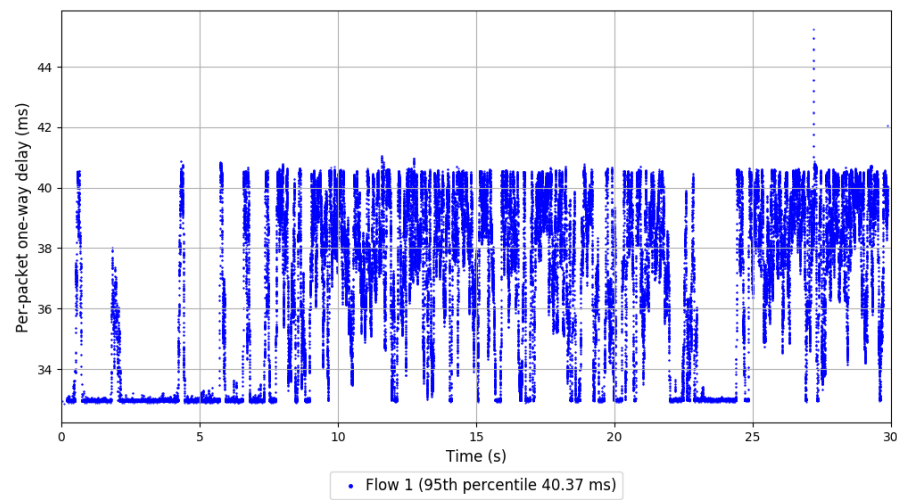
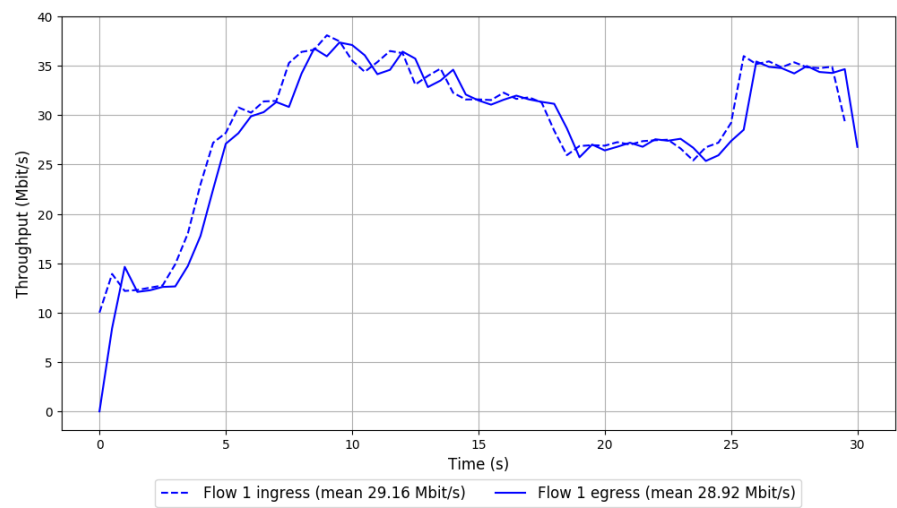
-- Flow 1:

Average throughput: 28.92 Mbit/s

95th percentile per-packet one-way delay: 40.366 ms

Loss rate: 1.02%

Run 6: Report of PCC-Expr — Data Link



Run 7: Statistics of PCC-Expr

Start at: 2018-06-30 09:17:39

End at: 2018-06-30 09:18:09

Local clock offset: 0.242 ms

Remote clock offset: 1.418 ms

Below is generated by plot.py at 2018-06-30 10:45:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 26.29 Mbit/s

95th percentile per-packet one-way delay: 42.197 ms

Loss rate: 1.18%

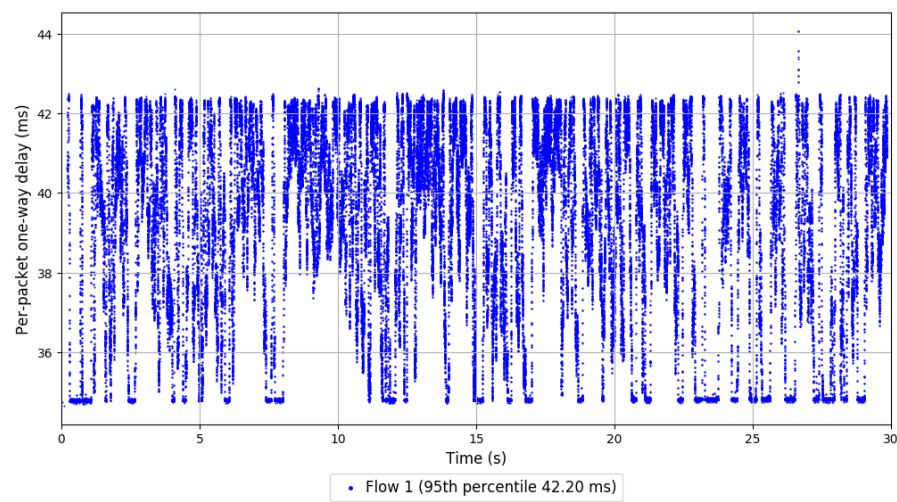
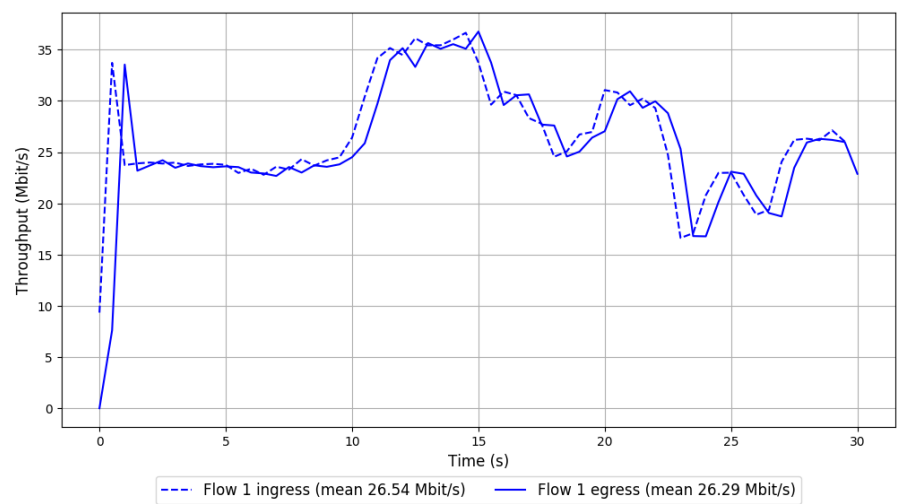
-- Flow 1:

Average throughput: 26.29 Mbit/s

95th percentile per-packet one-way delay: 42.197 ms

Loss rate: 1.18%

Run 7: Report of PCC-Expr — Data Link



Run 8: Statistics of PCC-Expr

Start at: 2018-06-30 09:41:02

End at: 2018-06-30 09:41:32

Local clock offset: 0.281 ms

Remote clock offset: 4.172 ms

Below is generated by plot.py at 2018-06-30 10:46:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 65.43 Mbit/s

95th percentile per-packet one-way delay: 48.945 ms

Loss rate: 0.83%

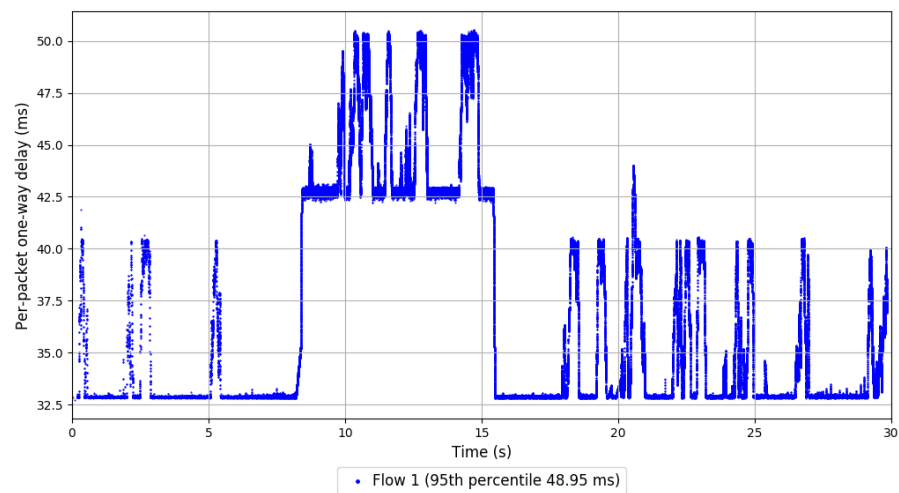
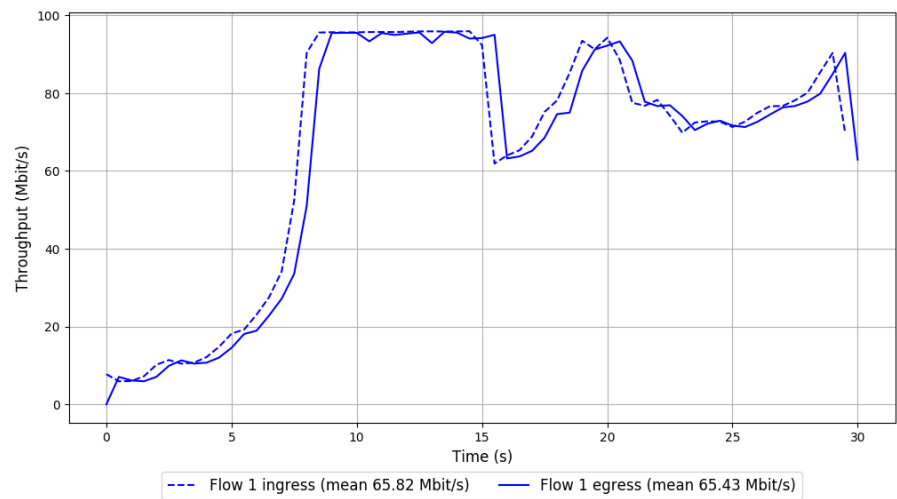
-- Flow 1:

Average throughput: 65.43 Mbit/s

95th percentile per-packet one-way delay: 48.945 ms

Loss rate: 0.83%

Run 8: Report of PCC-Expr — Data Link



Run 9: Statistics of PCC-Expr

Start at: 2018-06-30 10:03:50

End at: 2018-06-30 10:04:20

Local clock offset: 0.259 ms

Remote clock offset: 6.671 ms

Below is generated by plot.py at 2018-06-30 10:46:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.45 Mbit/s

95th percentile per-packet one-way delay: 44.235 ms

Loss rate: 0.82%

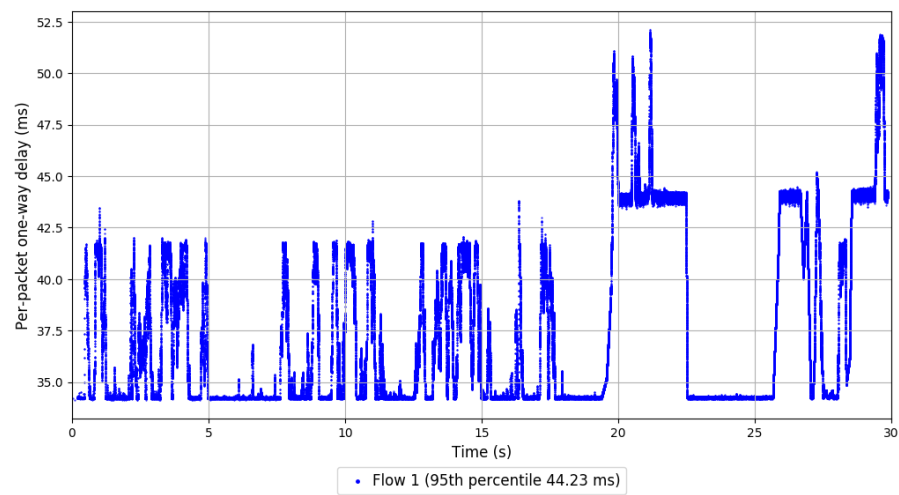
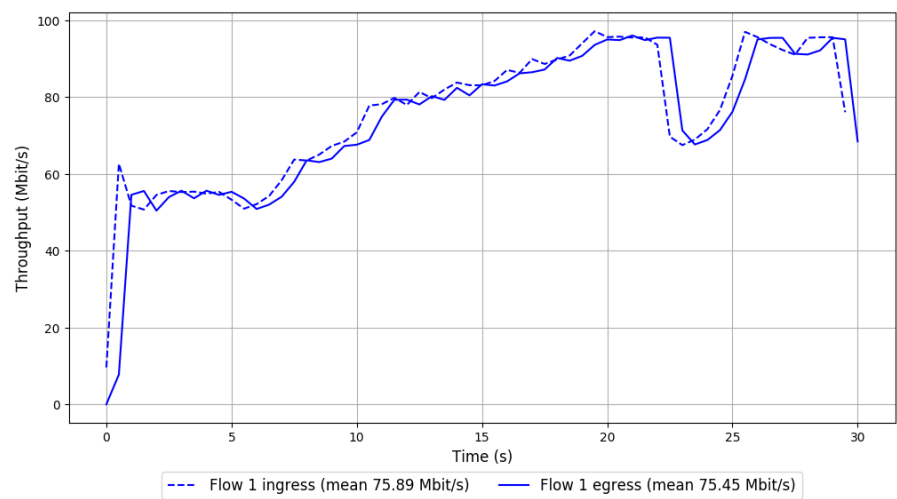
-- Flow 1:

Average throughput: 75.45 Mbit/s

95th percentile per-packet one-way delay: 44.235 ms

Loss rate: 0.82%

Run 9: Report of PCC-Expr — Data Link



Run 10: Statistics of PCC-Expr

Start at: 2018-06-30 10:26:47

End at: 2018-06-30 10:27:17

Local clock offset: 0.302 ms

Remote clock offset: 4.887 ms

Below is generated by plot.py at 2018-06-30 10:47:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.88 Mbit/s

95th percentile per-packet one-way delay: 44.073 ms

Loss rate: 0.28%

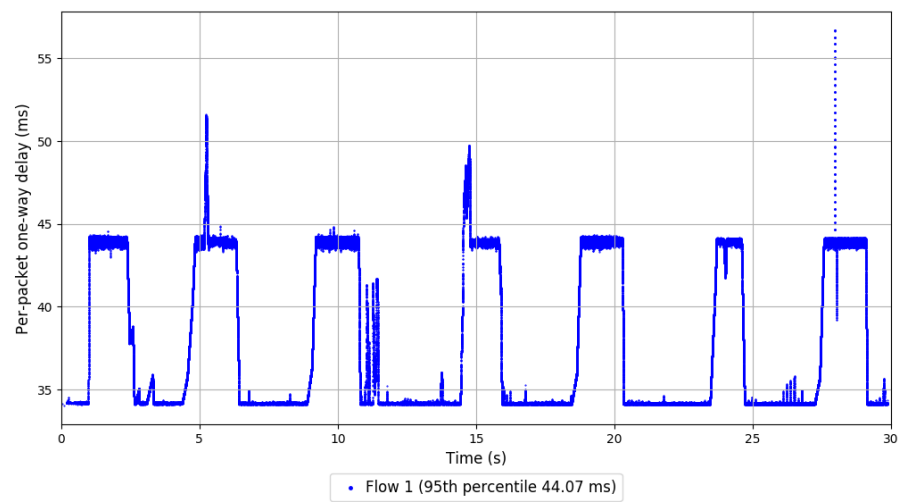
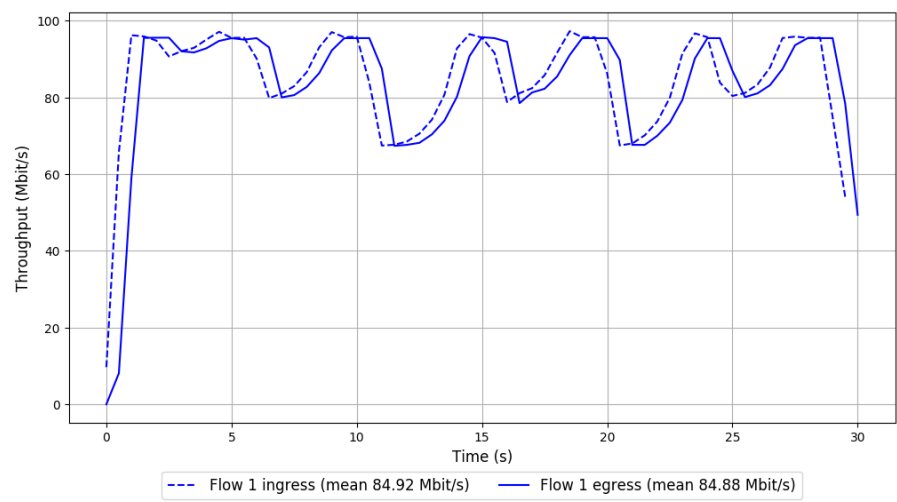
-- Flow 1:

Average throughput: 84.88 Mbit/s

95th percentile per-packet one-way delay: 44.073 ms

Loss rate: 0.28%

Run 10: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2018-06-30 06:52:02

End at: 2018-06-30 06:52:32

Local clock offset: 0.617 ms

Remote clock offset: 4.872 ms

Below is generated by plot.py at 2018-06-30 10:47:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 40.56 Mbit/s

95th percentile per-packet one-way delay: 48.046 ms

Loss rate: 0.74%

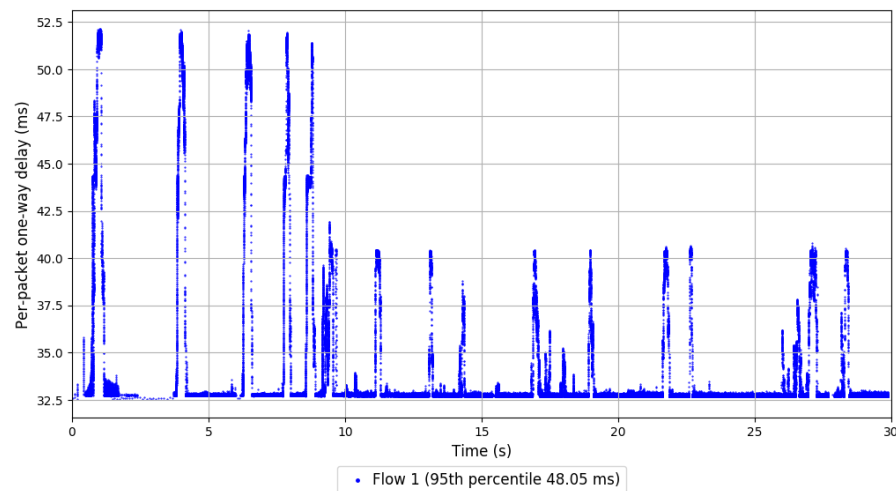
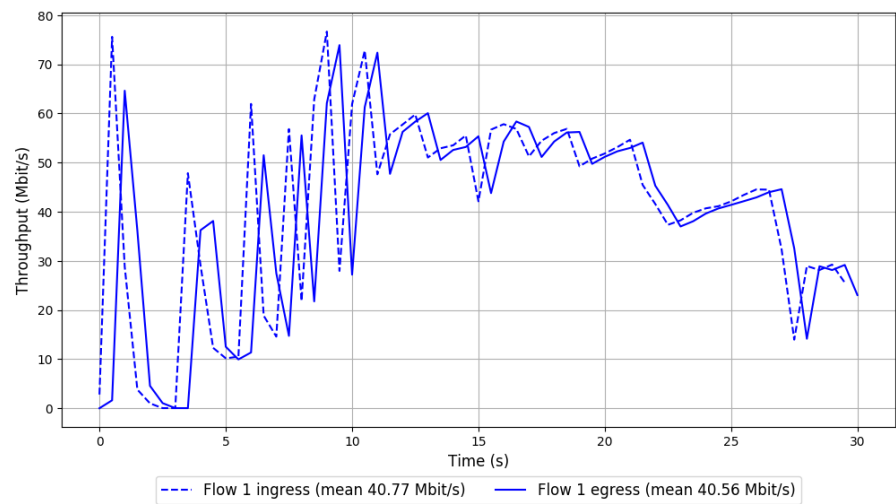
-- Flow 1:

Average throughput: 40.56 Mbit/s

95th percentile per-packet one-way delay: 48.046 ms

Loss rate: 0.74%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-06-30 07:17:27

End at: 2018-06-30 07:17:57

Local clock offset: 0.881 ms

Remote clock offset: 5.728 ms

Below is generated by plot.py at 2018-06-30 10:47:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.34 Mbit/s

95th percentile per-packet one-way delay: 40.367 ms

Loss rate: 0.88%

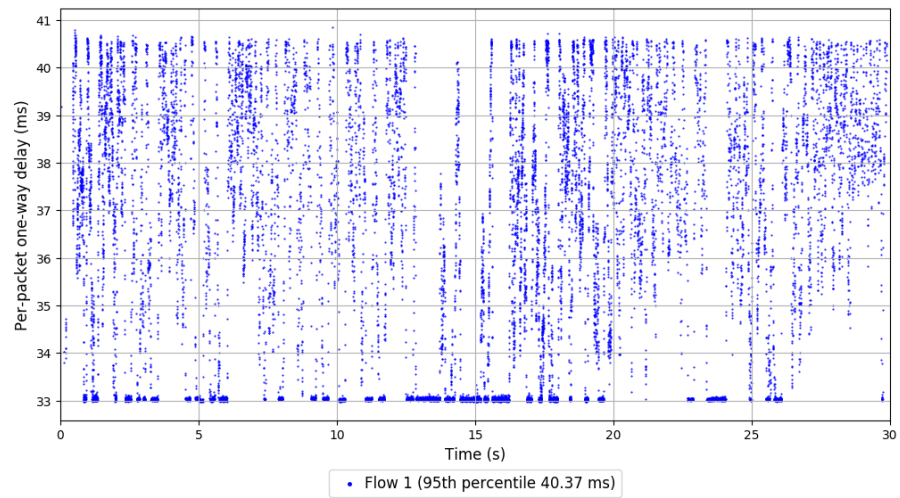
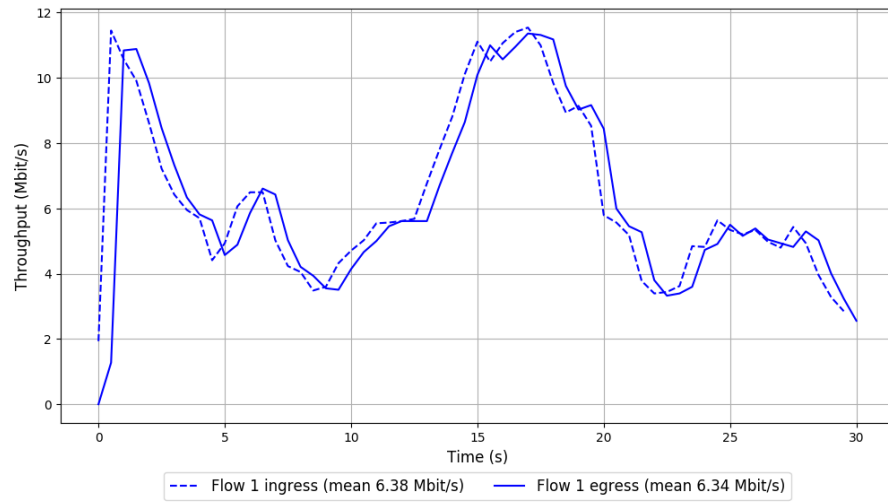
-- Flow 1:

Average throughput: 6.34 Mbit/s

95th percentile per-packet one-way delay: 40.367 ms

Loss rate: 0.88%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-06-30 07:43:18

End at: 2018-06-30 07:43:48

Local clock offset: 1.275 ms

Remote clock offset: 4.575 ms

Below is generated by plot.py at 2018-06-30 10:47:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.97 Mbit/s

95th percentile per-packet one-way delay: 41.688 ms

Loss rate: 1.21%

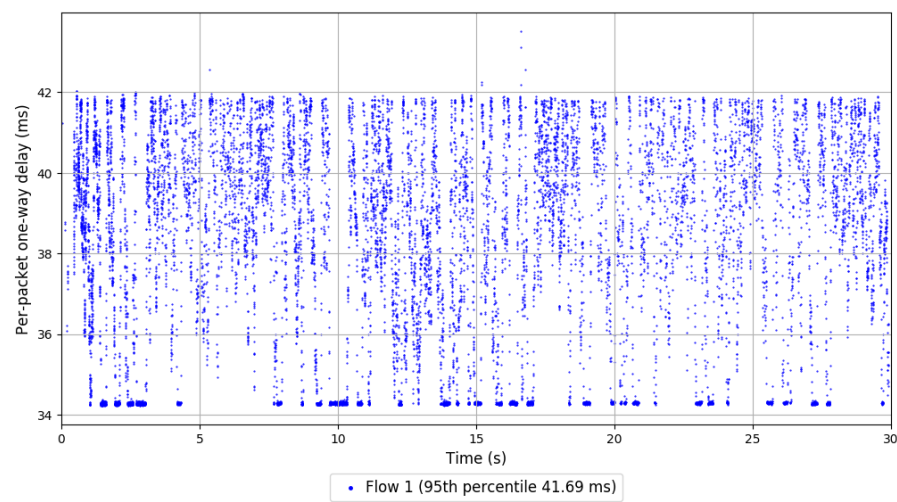
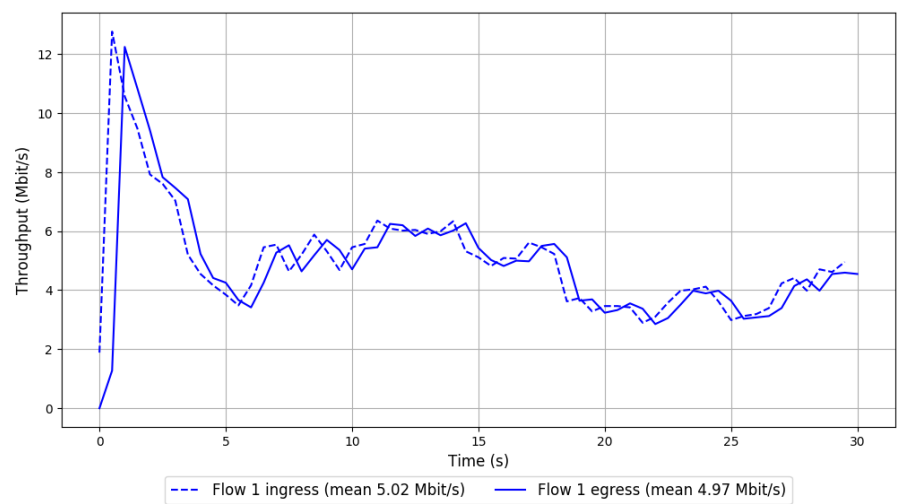
-- Flow 1:

Average throughput: 4.97 Mbit/s

95th percentile per-packet one-way delay: 41.688 ms

Loss rate: 1.21%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-06-30 08:09:38

End at: 2018-06-30 08:10:08

Local clock offset: 1.015 ms

Remote clock offset: 1.484 ms

Below is generated by plot.py at 2018-06-30 10:47:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.56 Mbit/s

95th percentile per-packet one-way delay: 41.369 ms

Loss rate: 1.12%

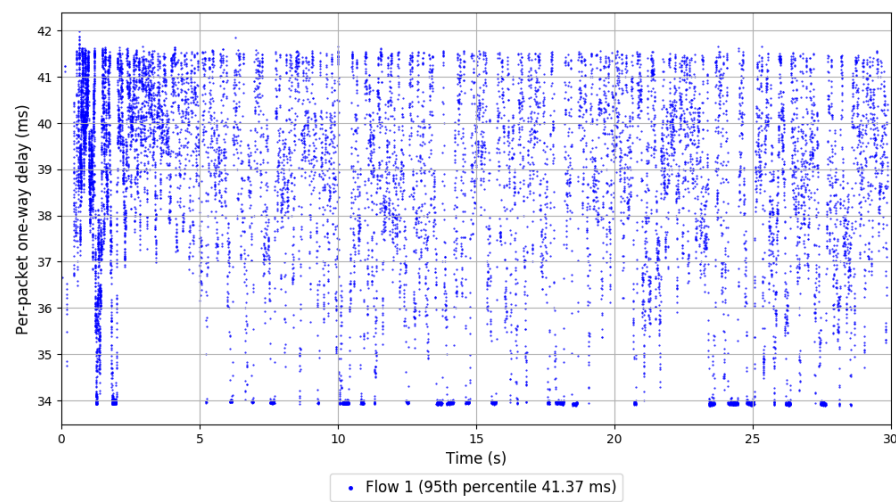
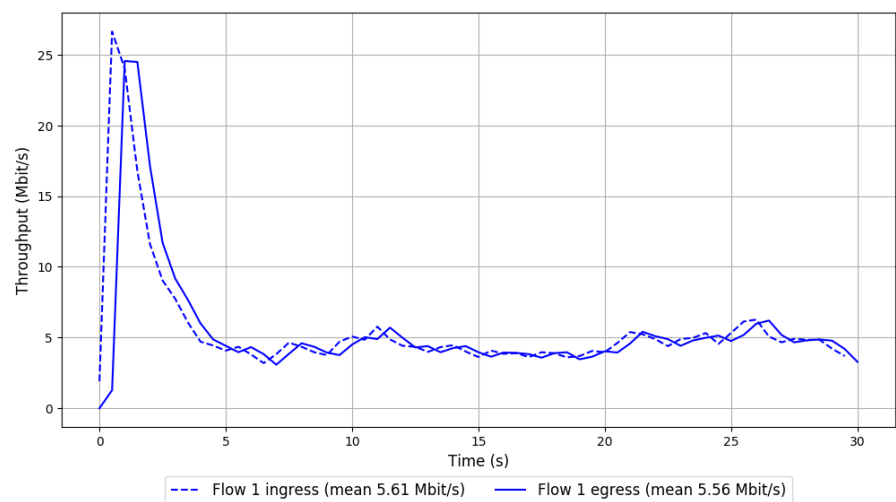
-- Flow 1:

Average throughput: 5.56 Mbit/s

95th percentile per-packet one-way delay: 41.369 ms

Loss rate: 1.12%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-06-30 08:34:57

End at: 2018-06-30 08:35:27

Local clock offset: 0.711 ms

Remote clock offset: 0.081 ms

Below is generated by plot.py at 2018-06-30 10:47:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.54 Mbit/s

95th percentile per-packet one-way delay: 41.599 ms

Loss rate: 1.08%

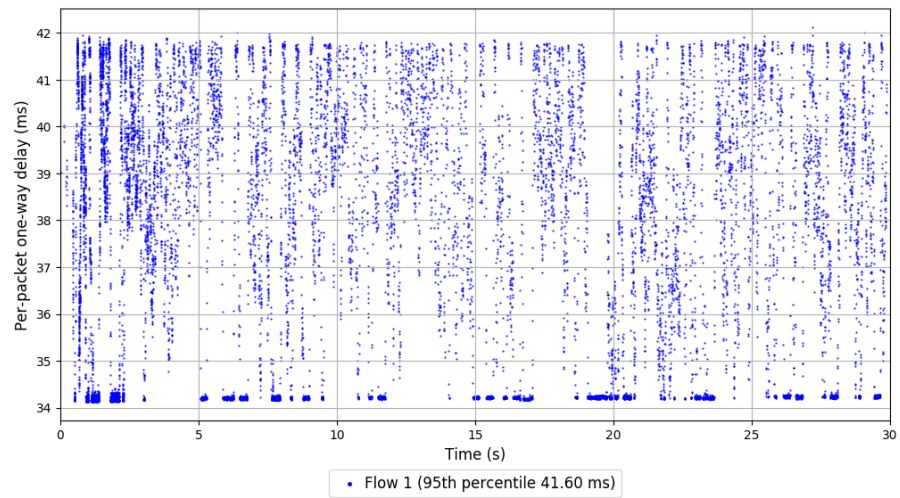
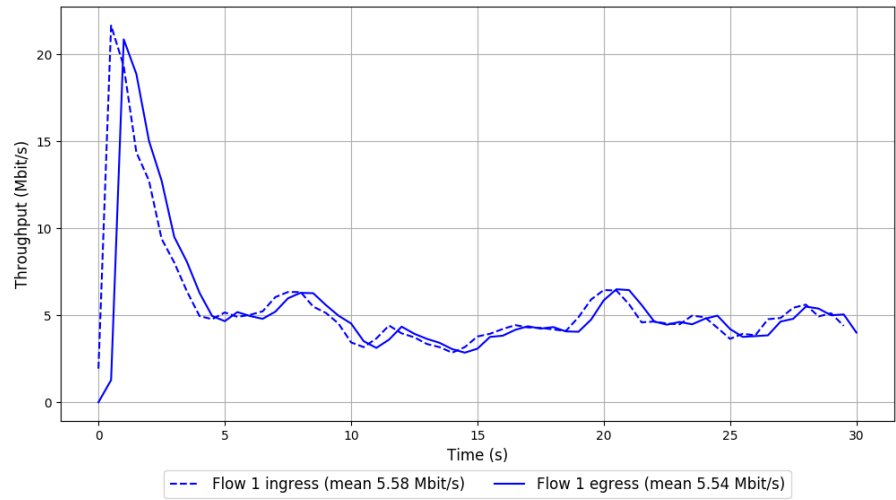
-- Flow 1:

Average throughput: 5.54 Mbit/s

95th percentile per-packet one-way delay: 41.599 ms

Loss rate: 1.08%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-06-30 08:59:57

End at: 2018-06-30 09:00:28

Local clock offset: 0.371 ms

Remote clock offset: 1.466 ms

Below is generated by plot.py at 2018-06-30 10:47:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.26 Mbit/s

95th percentile per-packet one-way delay: 41.578 ms

Loss rate: 1.10%

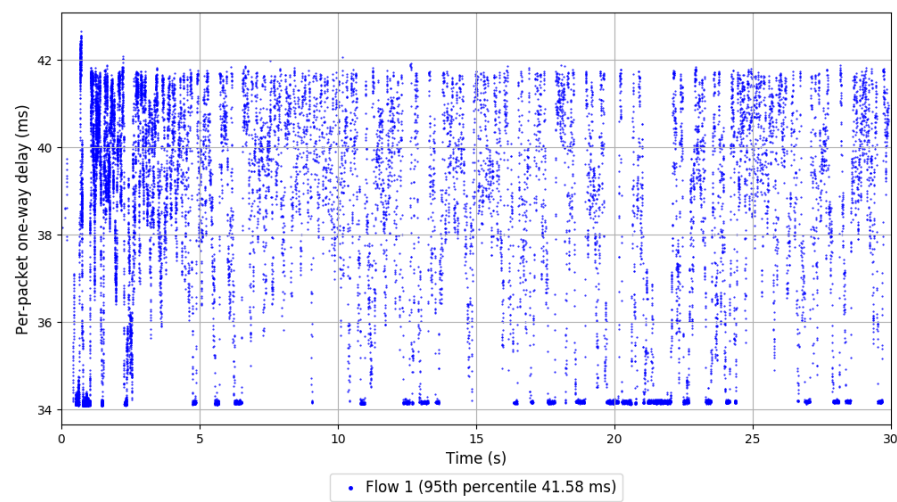
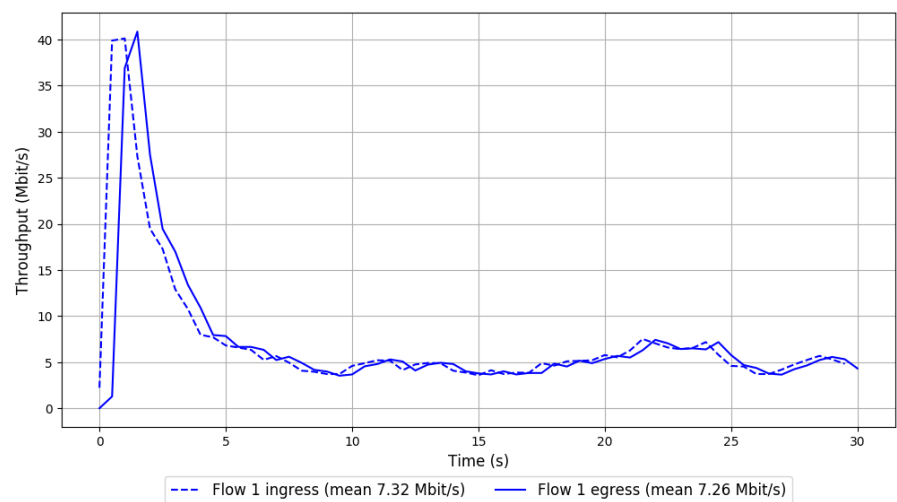
-- Flow 1:

Average throughput: 7.26 Mbit/s

95th percentile per-packet one-way delay: 41.578 ms

Loss rate: 1.10%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-06-30 09:24:46

End at: 2018-06-30 09:25:16

Local clock offset: 0.305 ms

Remote clock offset: 2.557 ms

Below is generated by plot.py at 2018-06-30 10:47:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 32.72 Mbit/s

95th percentile per-packet one-way delay: 40.050 ms

Loss rate: 0.62%

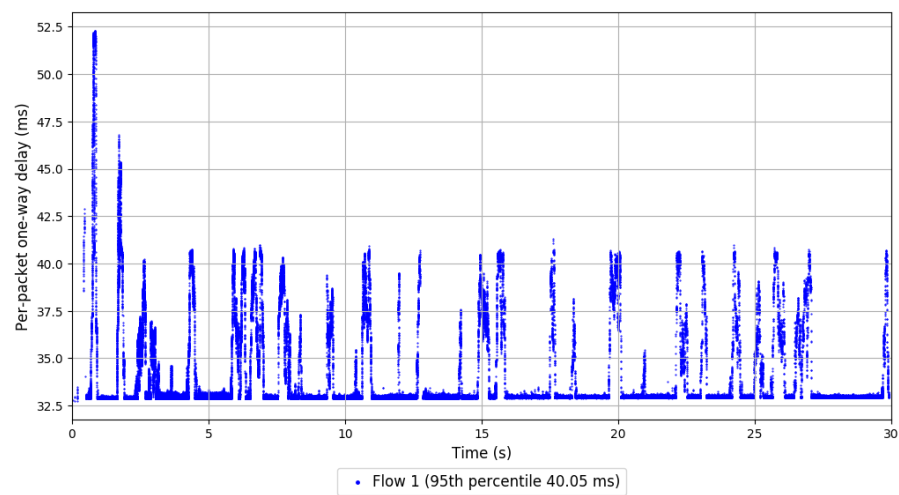
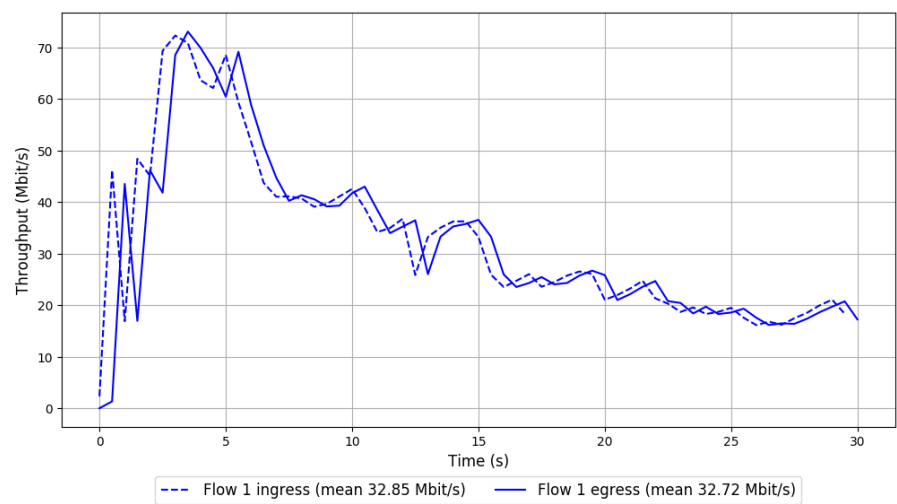
-- Flow 1:

Average throughput: 32.72 Mbit/s

95th percentile per-packet one-way delay: 40.050 ms

Loss rate: 0.62%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-06-30 09:47:53

End at: 2018-06-30 09:48:23

Local clock offset: 0.265 ms

Remote clock offset: 4.921 ms

Below is generated by plot.py at 2018-06-30 10:47:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 65.55 Mbit/s

95th percentile per-packet one-way delay: 42.939 ms

Loss rate: 0.37%

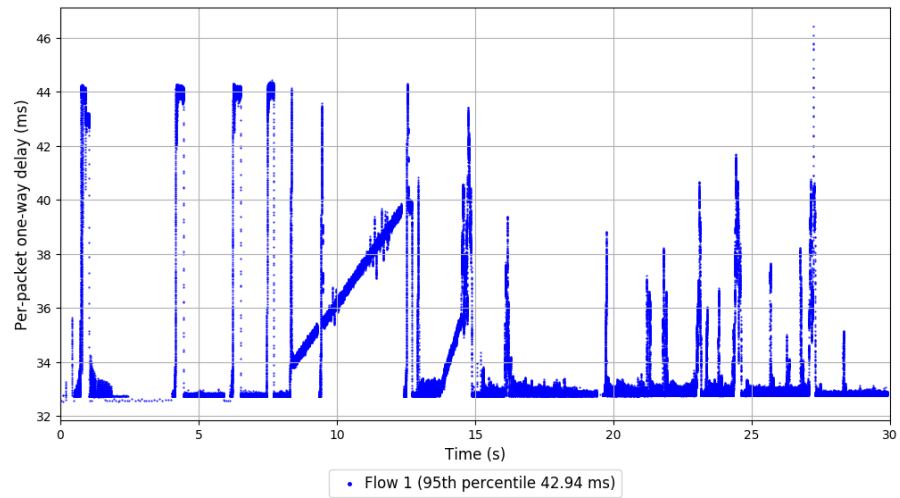
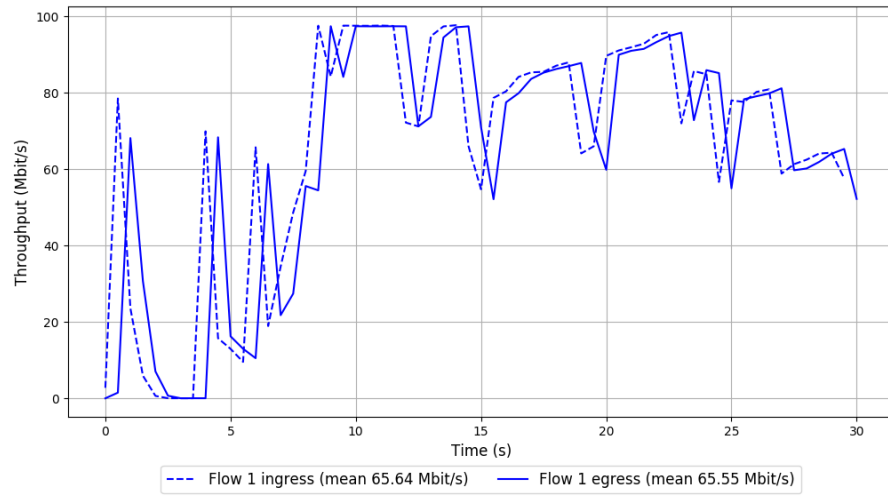
-- Flow 1:

Average throughput: 65.55 Mbit/s

95th percentile per-packet one-way delay: 42.939 ms

Loss rate: 0.37%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-06-30 10:10:42

End at: 2018-06-30 10:11:12

Local clock offset: 0.25 ms

Remote clock offset: 7.336 ms

Below is generated by plot.py at 2018-06-30 10:47:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.29 Mbit/s

95th percentile per-packet one-way delay: 43.521 ms

Loss rate: 0.37%

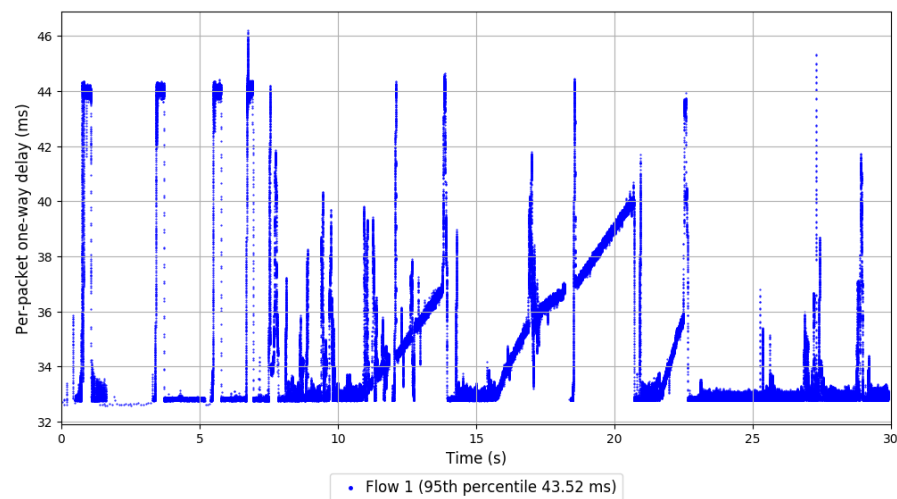
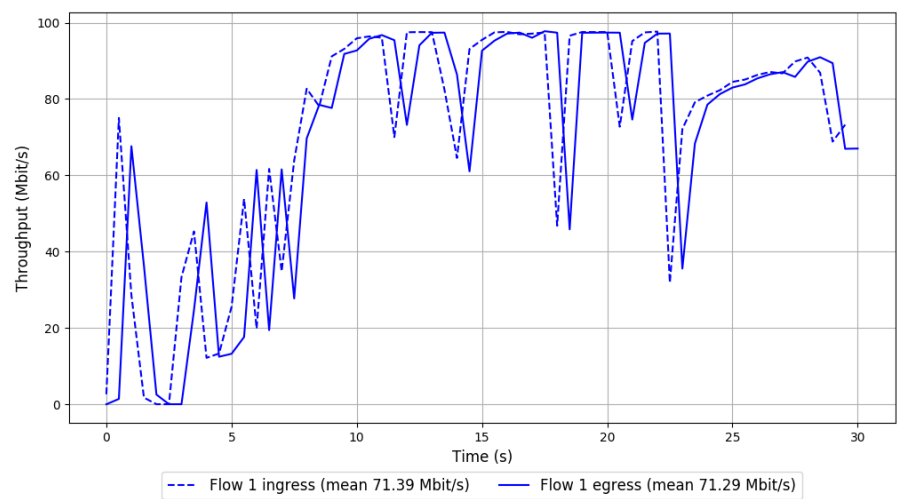
-- Flow 1:

Average throughput: 71.29 Mbit/s

95th percentile per-packet one-way delay: 43.521 ms

Loss rate: 0.37%

Run 9: Report of QUIC Cubic — Data Link

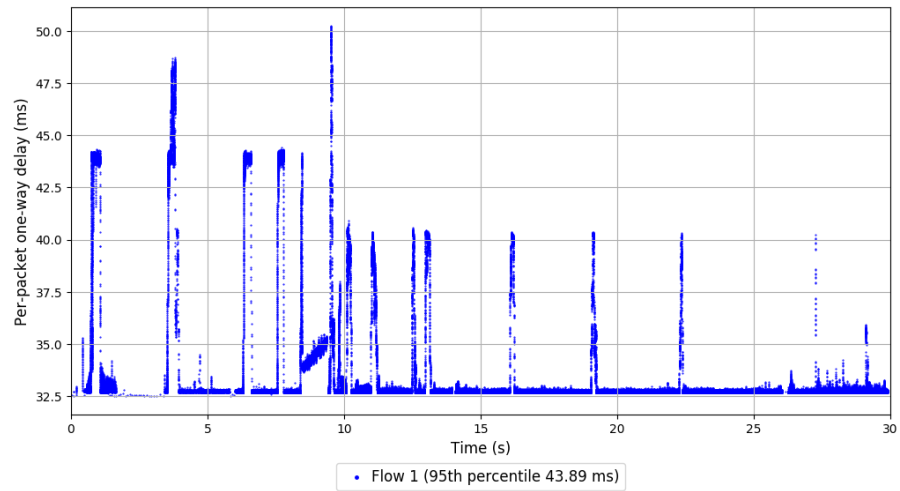
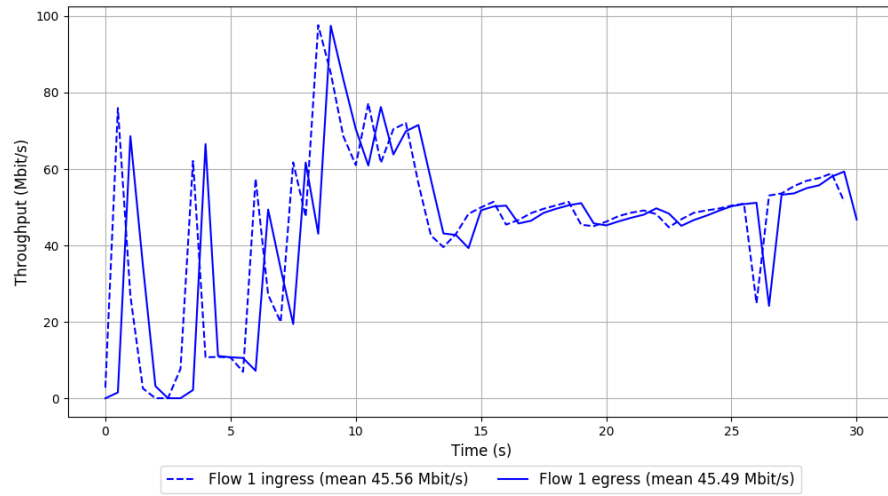


```
Run 10: Statistics of QUIC Cubic

Start at: 2018-06-30 10:33:34
End at: 2018-06-30 10:34:04
Local clock offset: 0.323 ms
Remote clock offset: 4.645 ms

# Below is generated by plot.py at 2018-06-30 10:47:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 45.49 Mbit/s
95th percentile per-packet one-way delay: 43.889 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 45.49 Mbit/s
95th percentile per-packet one-way delay: 43.889 ms
Loss rate: 0.40%
```

Run 10: Report of QUIC Cubic — Data Link

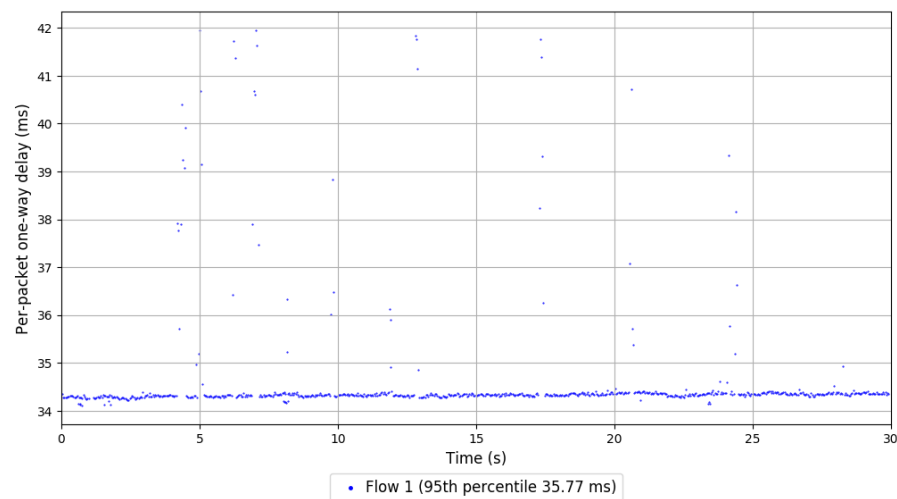
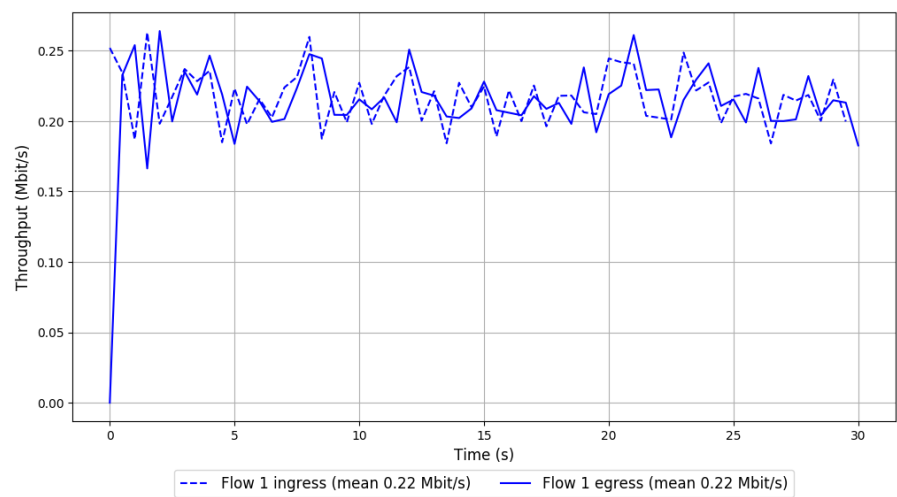


```
Run 1: Statistics of SCReAM

Start at: 2018-06-30 06:44:11
End at: 2018-06-30 06:44:41
Local clock offset: 0.3 ms
Remote clock offset: 4.862 ms

# Below is generated by plot.py at 2018-06-30 10:47:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 35.769 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 35.769 ms
Loss rate: 0.26%
```

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2018-06-30 07:08:19

End at: 2018-06-30 07:08:49

Local clock offset: 0.817 ms

Remote clock offset: 4.473 ms

Below is generated by plot.py at 2018-06-30 10:47:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.12 Mbit/s

95th percentile per-packet one-way delay: 41.448 ms

Loss rate: 1.71%

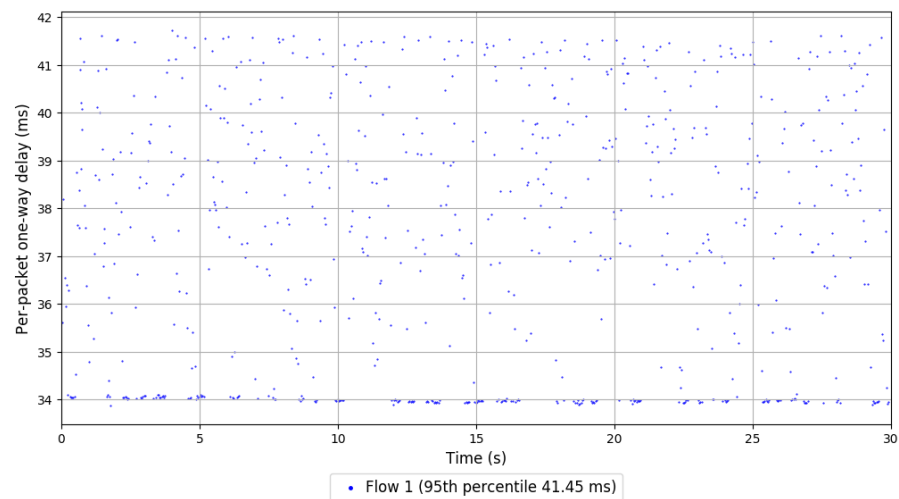
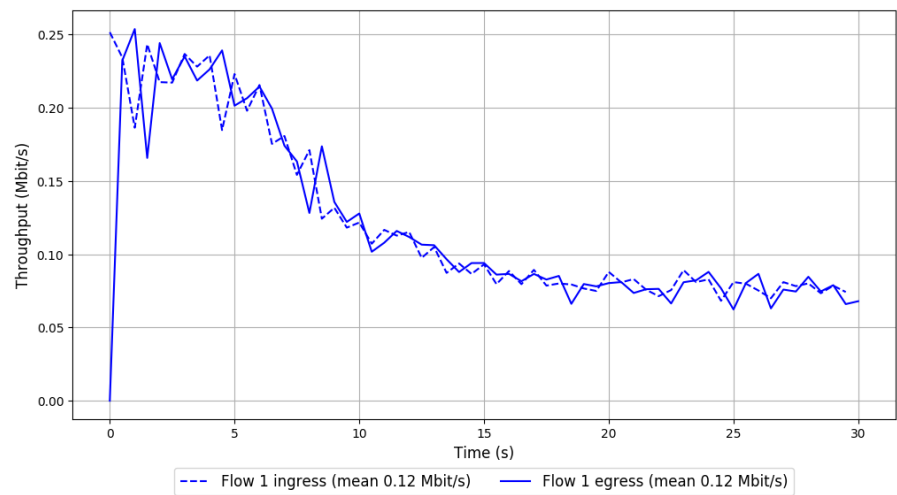
-- Flow 1:

Average throughput: 0.12 Mbit/s

95th percentile per-packet one-way delay: 41.448 ms

Loss rate: 1.71%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-06-30 07:33:27

End at: 2018-06-30 07:33:57

Local clock offset: 1.151 ms

Remote clock offset: 4.487 ms

Below is generated by plot.py at 2018-06-30 10:47:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.11 Mbit/s

95th percentile per-packet one-way delay: 40.006 ms

Loss rate: 0.99%

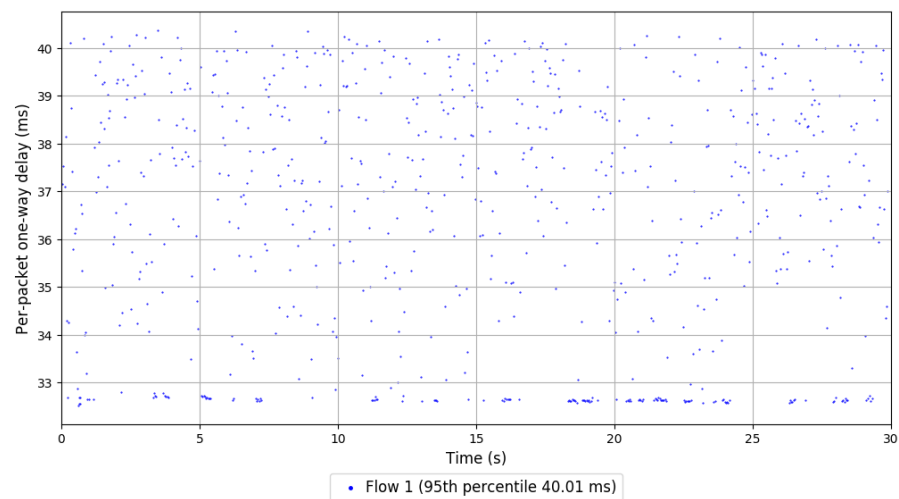
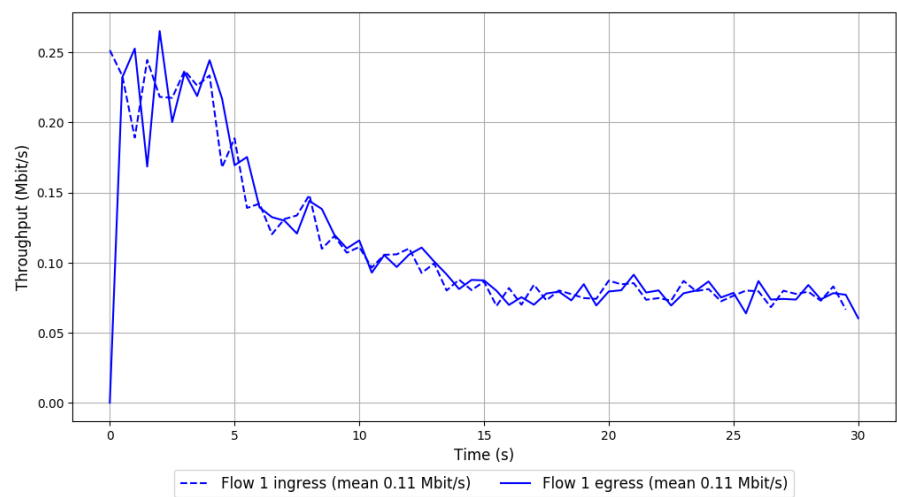
-- Flow 1:

Average throughput: 0.11 Mbit/s

95th percentile per-packet one-way delay: 40.006 ms

Loss rate: 0.99%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2018-06-30 07:59:32

End at: 2018-06-30 08:00:02

Local clock offset: 1.142 ms

Remote clock offset: 3.611 ms

Below is generated by plot.py at 2018-06-30 10:47:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.11 Mbit/s

95th percentile per-packet one-way delay: 39.860 ms

Loss rate: 1.54%

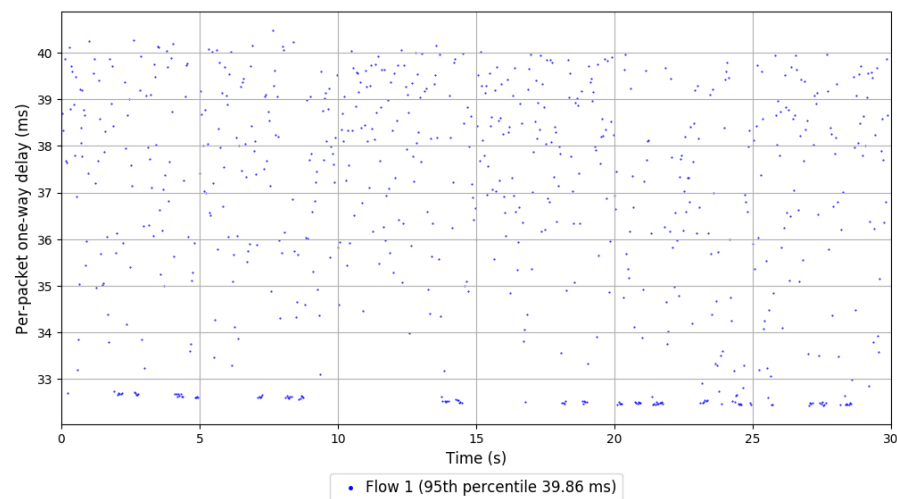
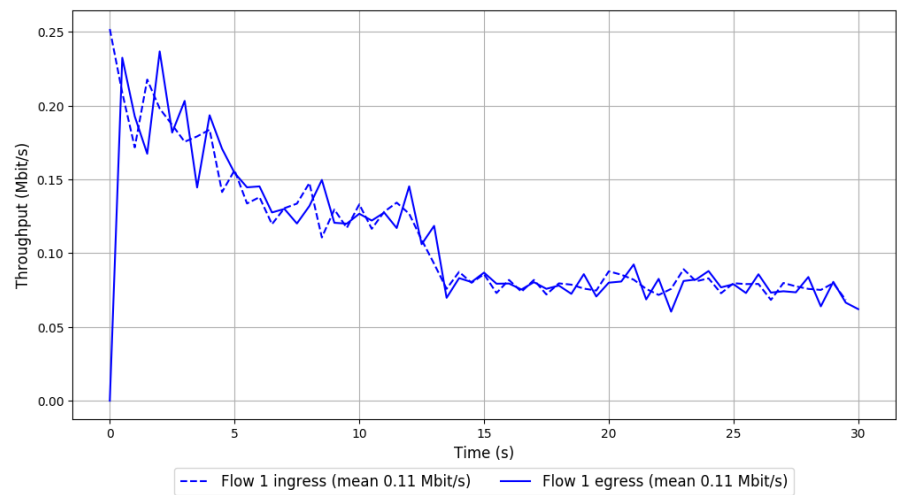
-- Flow 1:

Average throughput: 0.11 Mbit/s

95th percentile per-packet one-way delay: 39.860 ms

Loss rate: 1.54%

Run 4: Report of SReAM — Data Link

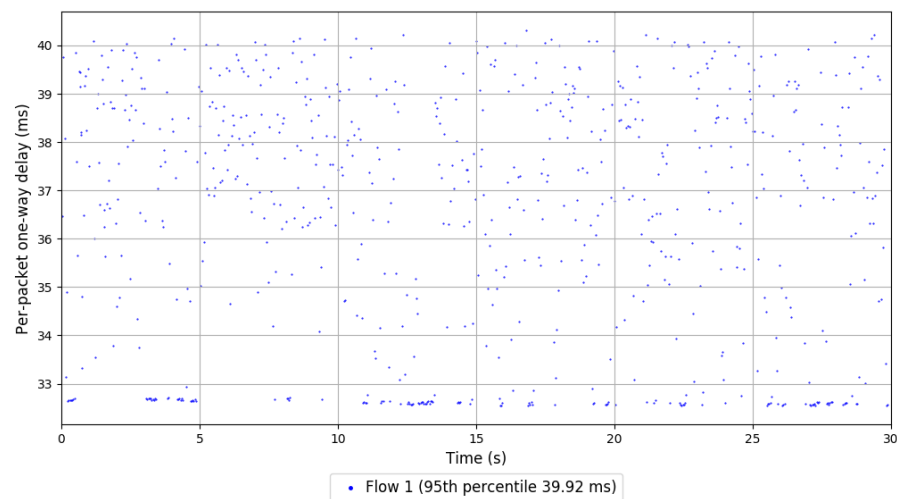
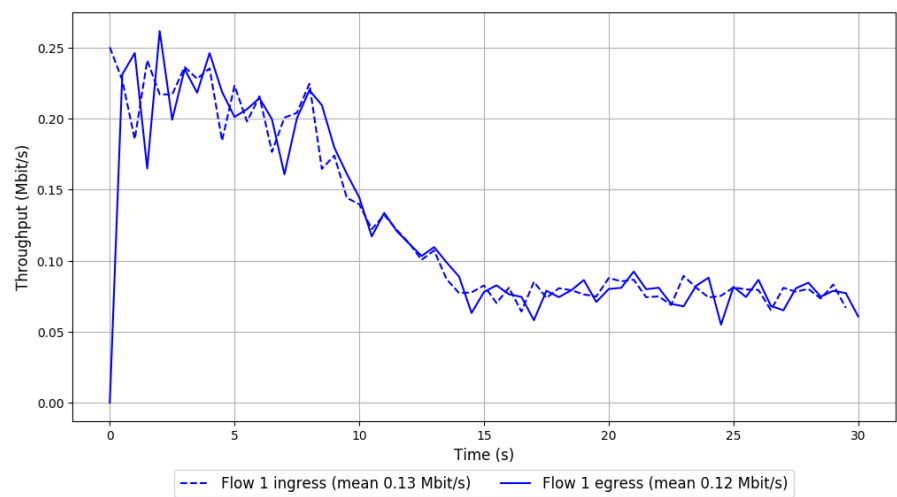


Run 5: Statistics of SCReAM

Start at: 2018-06-30 08:25:17
End at: 2018-06-30 08:25:47
Local clock offset: 0.802 ms
Remote clock offset: -0.036 ms

Below is generated by plot.py at 2018-06-30 10:47:02
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.12 Mbit/s
95th percentile per-packet one-way delay: 39.918 ms
Loss rate: 1.65%
-- Flow 1:
Average throughput: 0.12 Mbit/s
95th percentile per-packet one-way delay: 39.918 ms
Loss rate: 1.65%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-06-30 08:50:32

End at: 2018-06-30 08:51:02

Local clock offset: 0.566 ms

Remote clock offset: 0.968 ms

Below is generated by plot.py at 2018-06-30 10:47:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 39.817 ms

Loss rate: 0.26%

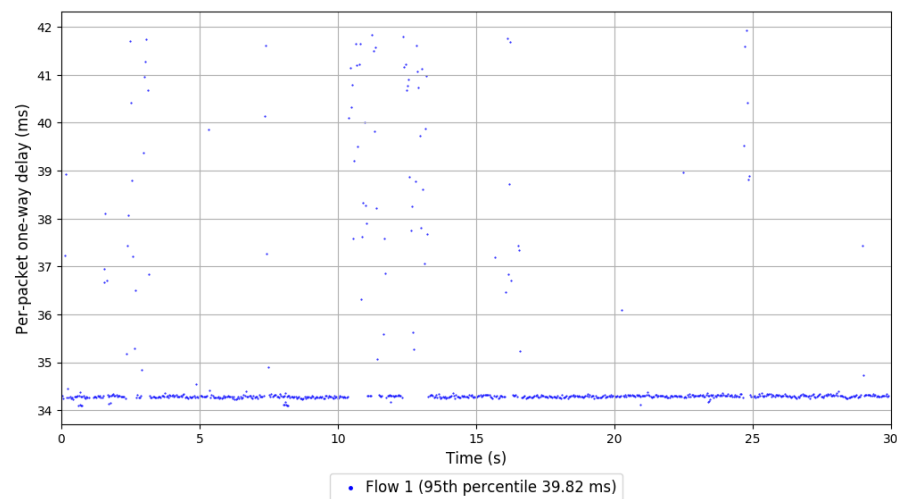
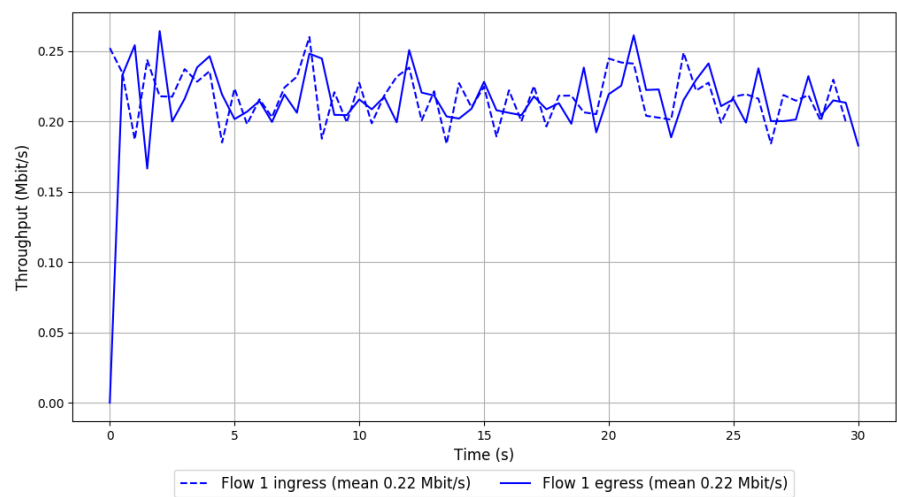
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 39.817 ms

Loss rate: 0.26%

Run 6: Report of SCSReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2018-06-30 09:16:24

End at: 2018-06-30 09:16:54

Local clock offset: 0.226 ms

Remote clock offset: 2.424 ms

Below is generated by plot.py at 2018-06-30 10:47:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.12 Mbit/s

95th percentile per-packet one-way delay: 39.554 ms

Loss rate: 1.33%

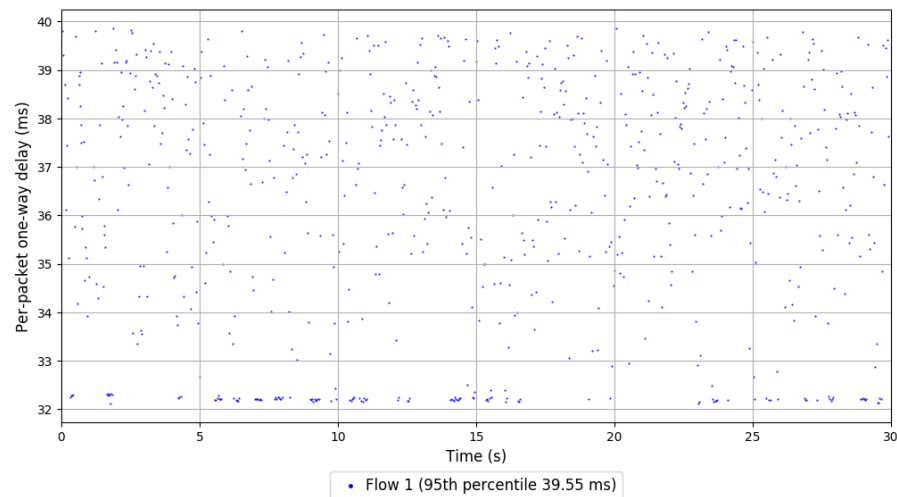
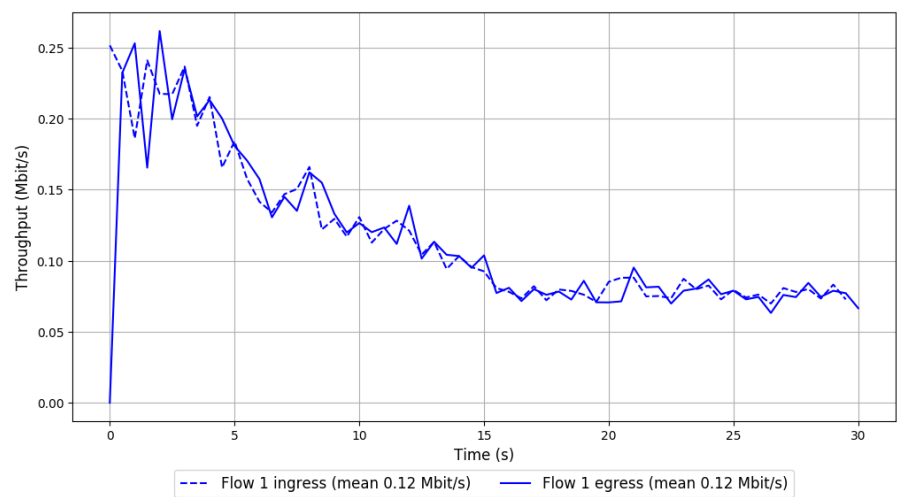
-- Flow 1:

Average throughput: 0.12 Mbit/s

95th percentile per-packet one-way delay: 39.554 ms

Loss rate: 1.33%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-06-30 09:39:47

End at: 2018-06-30 09:40:17

Local clock offset: 0.271 ms

Remote clock offset: 3.966 ms

Below is generated by plot.py at 2018-06-30 10:47:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 36.238 ms

Loss rate: 0.26%

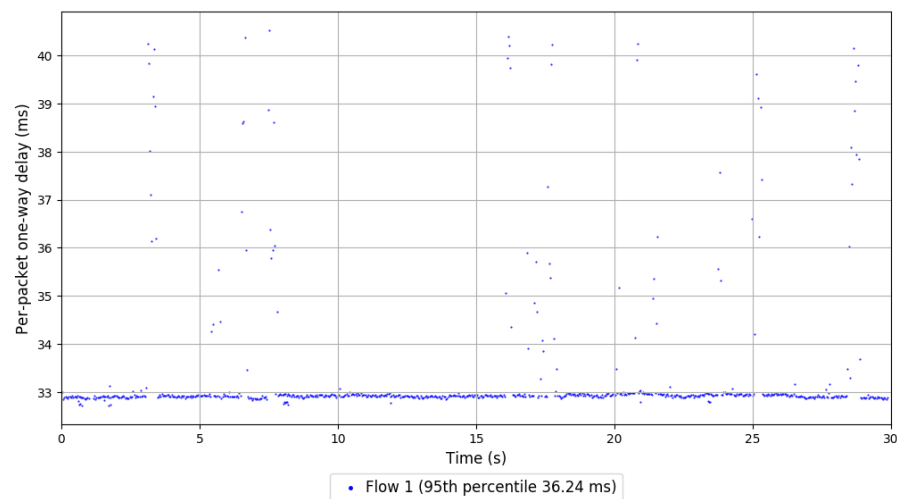
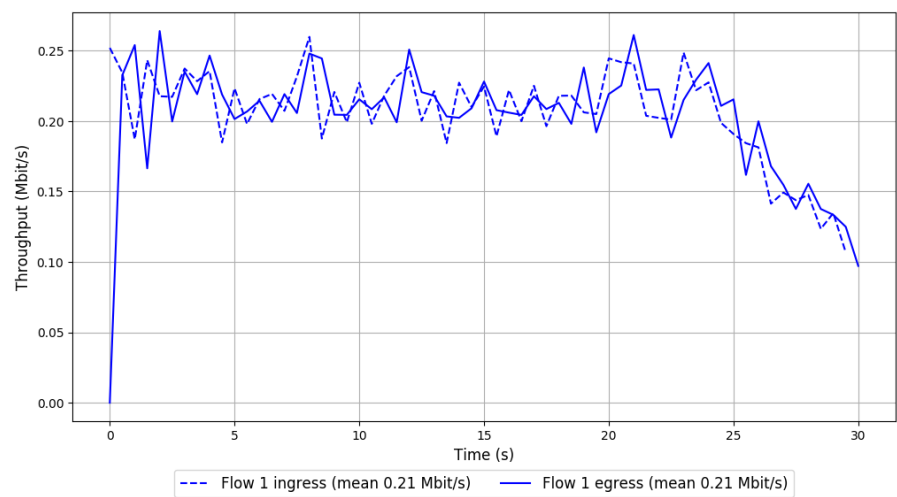
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 36.238 ms

Loss rate: 0.26%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-06-30 10:02:35

End at: 2018-06-30 10:03:05

Local clock offset: 0.292 ms

Remote clock offset: 6.464 ms

Below is generated by plot.py at 2018-06-30 10:47:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.16 Mbit/s

95th percentile per-packet one-way delay: 33.153 ms

Loss rate: 0.31%

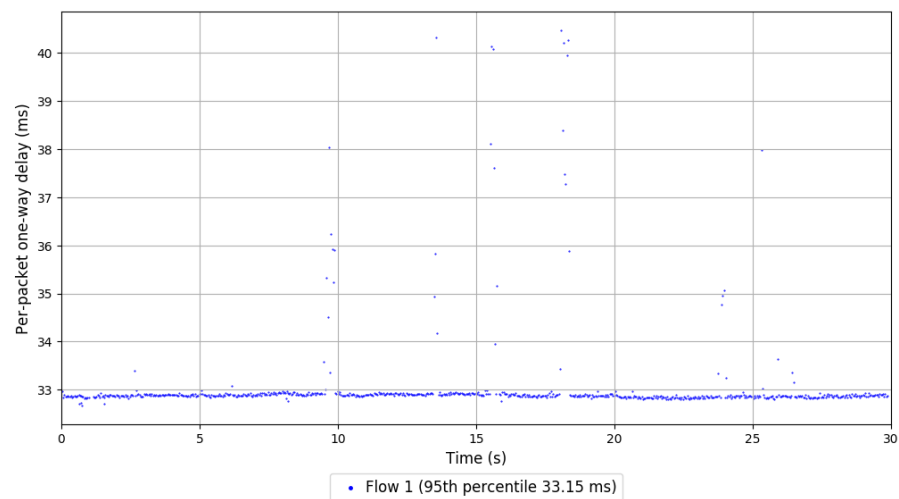
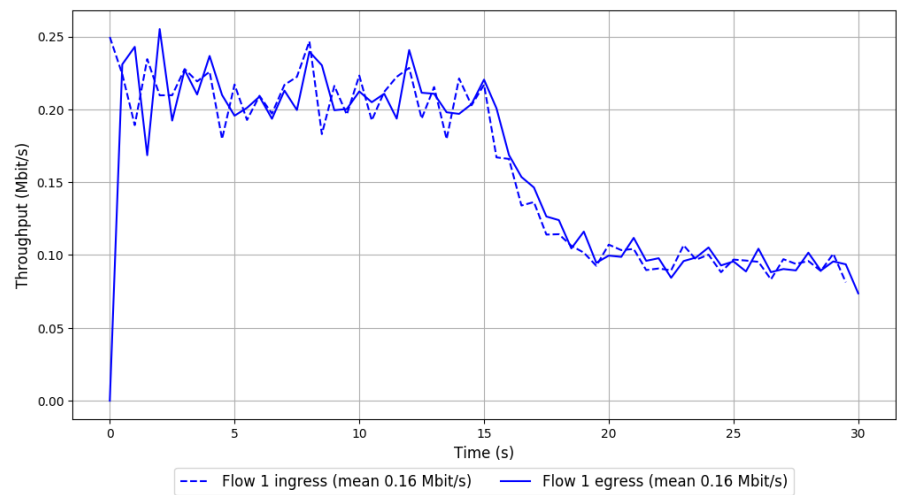
-- Flow 1:

Average throughput: 0.16 Mbit/s

95th percentile per-packet one-way delay: 33.153 ms

Loss rate: 0.31%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SCReAM

Start at: 2018-06-30 10:25:32

End at: 2018-06-30 10:26:02

Local clock offset: 0.219 ms

Remote clock offset: 5.042 ms

Below is generated by plot.py at 2018-06-30 10:47:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 32.791 ms

Loss rate: 0.26%

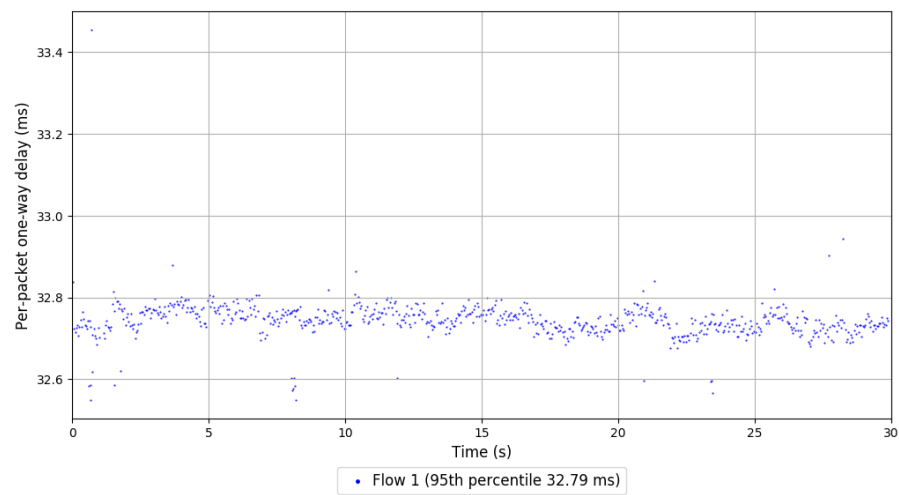
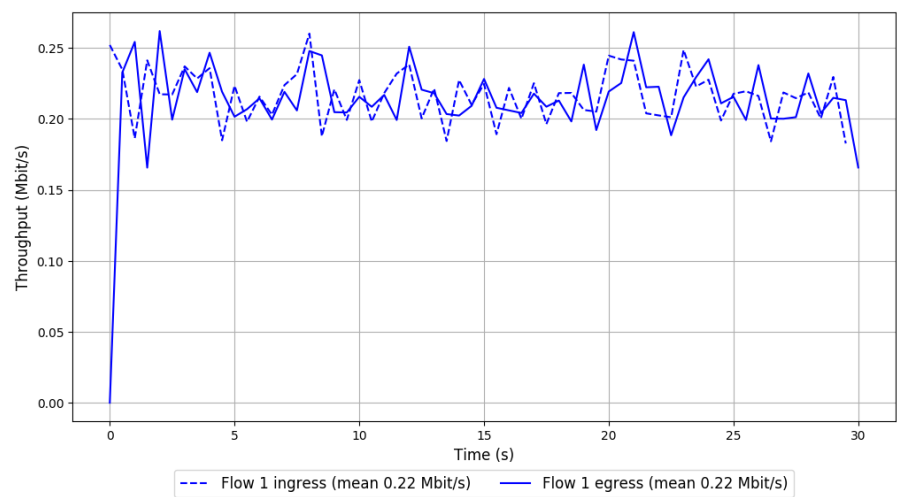
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 32.791 ms

Loss rate: 0.26%

Run 10: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2018-06-30 06:50:46

End at: 2018-06-30 06:51:16

Local clock offset: 0.578 ms

Remote clock offset: 4.956 ms

Below is generated by plot.py at 2018-06-30 10:47:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 10.20 Mbit/s

95th percentile per-packet one-way delay: 41.174 ms

Loss rate: 0.41%

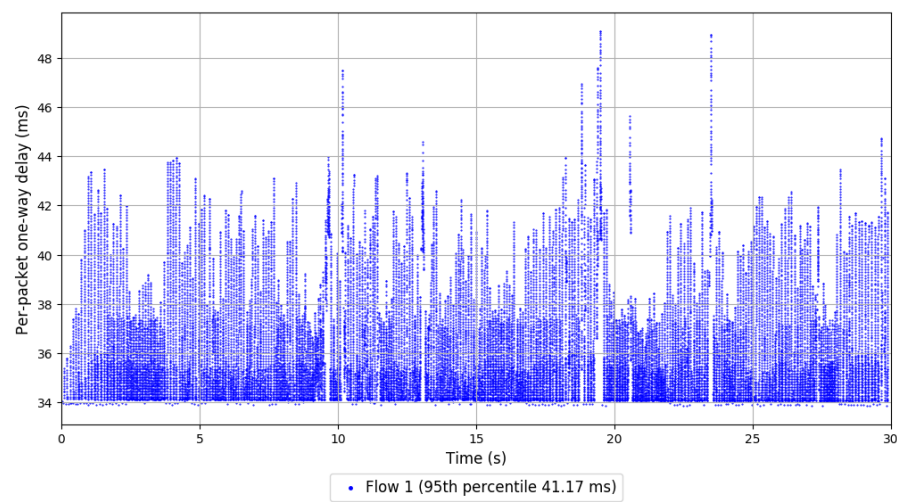
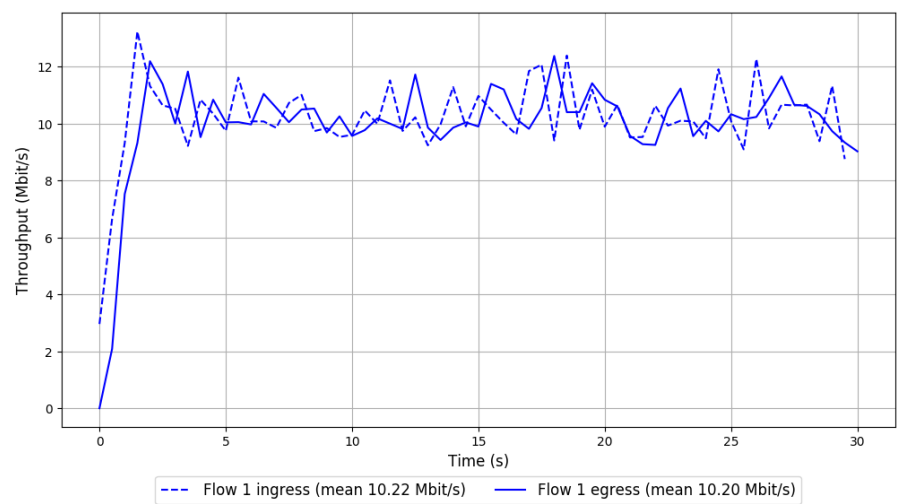
-- Flow 1:

Average throughput: 10.20 Mbit/s

95th percentile per-packet one-way delay: 41.174 ms

Loss rate: 0.41%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-06-30 07:16:09

End at: 2018-06-30 07:16:39

Local clock offset: 0.804 ms

Remote clock offset: 4.565 ms

Below is generated by plot.py at 2018-06-30 10:47:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 9.45 Mbit/s

95th percentile per-packet one-way delay: 46.197 ms

Loss rate: 2.13%

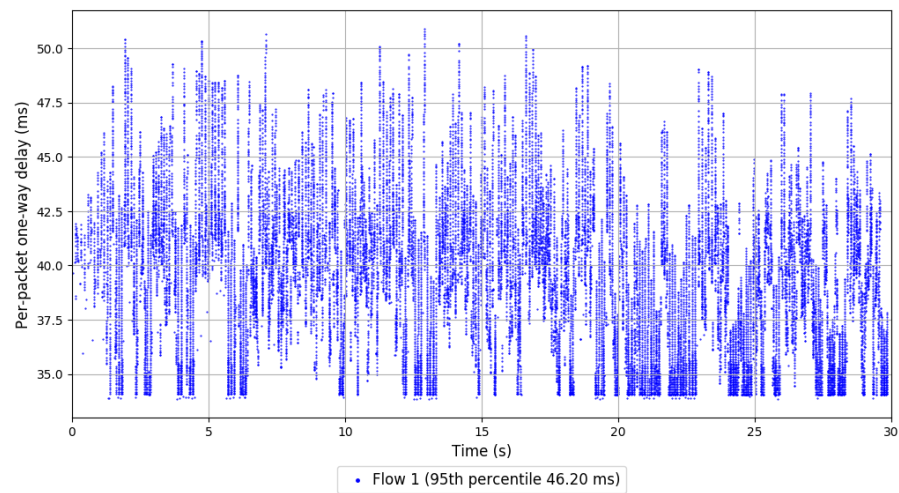
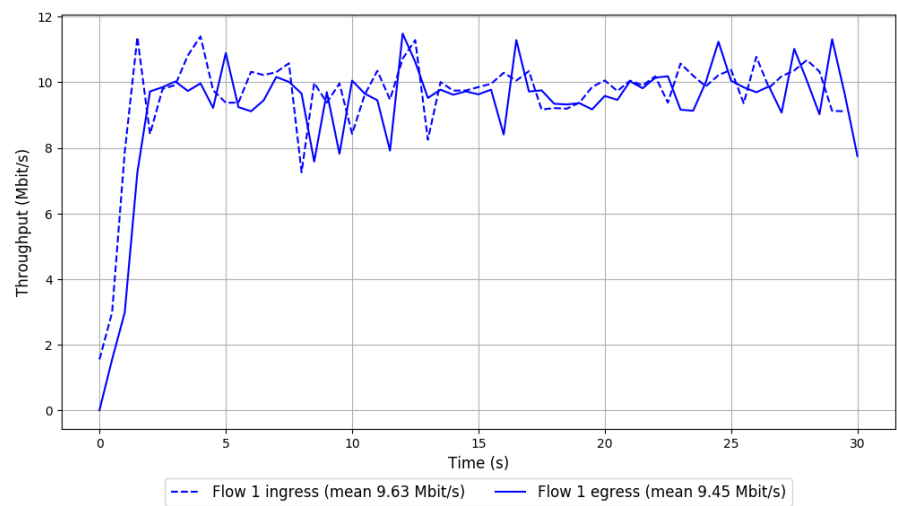
-- Flow 1:

Average throughput: 9.45 Mbit/s

95th percentile per-packet one-way delay: 46.197 ms

Loss rate: 2.13%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-06-30 07:41:58

End at: 2018-06-30 07:42:28

Local clock offset: 1.161 ms

Remote clock offset: 4.662 ms

Below is generated by plot.py at 2018-06-30 10:47:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 9.44 Mbit/s

95th percentile per-packet one-way delay: 45.089 ms

Loss rate: 2.04%

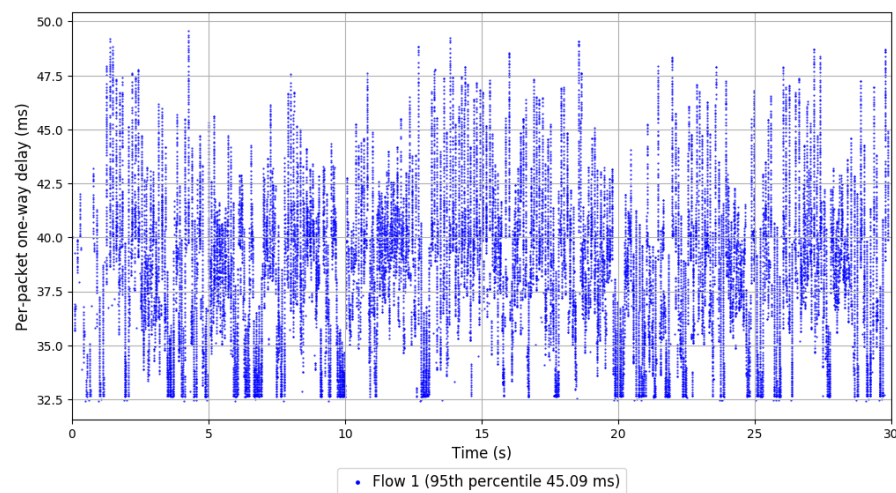
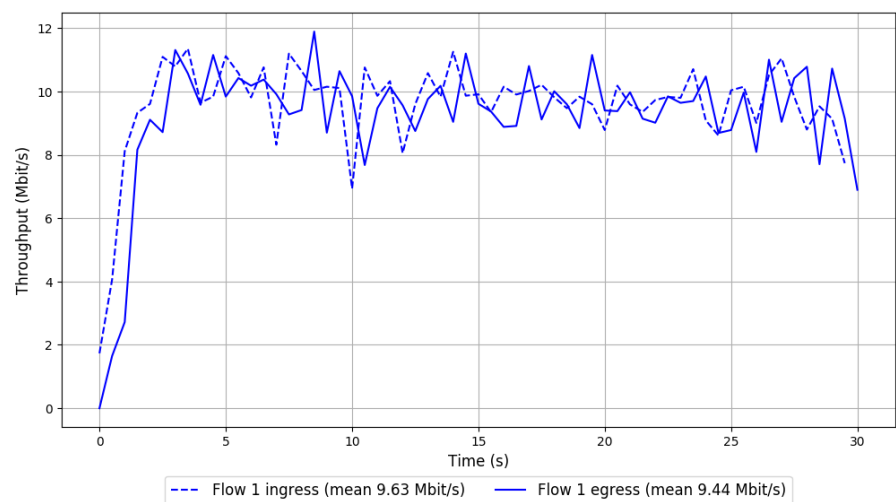
-- Flow 1:

Average throughput: 9.44 Mbit/s

95th percentile per-packet one-way delay: 45.089 ms

Loss rate: 2.04%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-06-30 08:08:17

End at: 2018-06-30 08:08:47

Local clock offset: 1.106 ms

Remote clock offset: 1.647 ms

Below is generated by plot.py at 2018-06-30 10:47:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 9.19 Mbit/s

95th percentile per-packet one-way delay: 46.285 ms

Loss rate: 2.42%

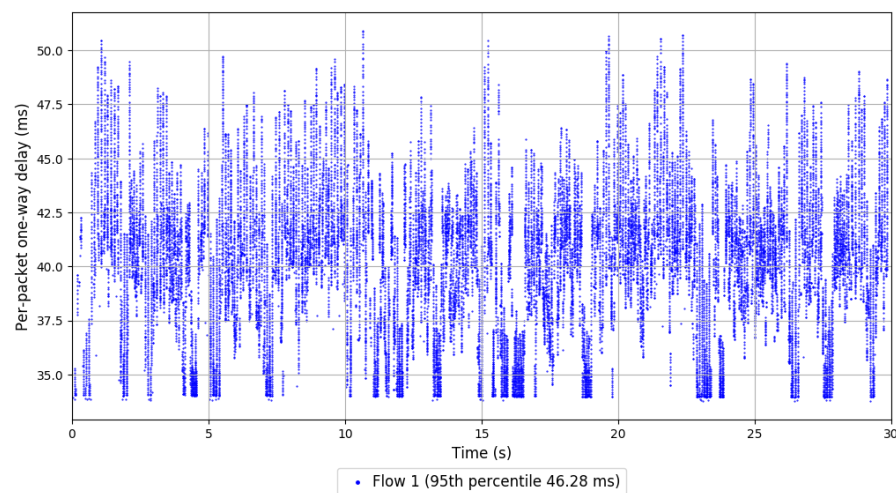
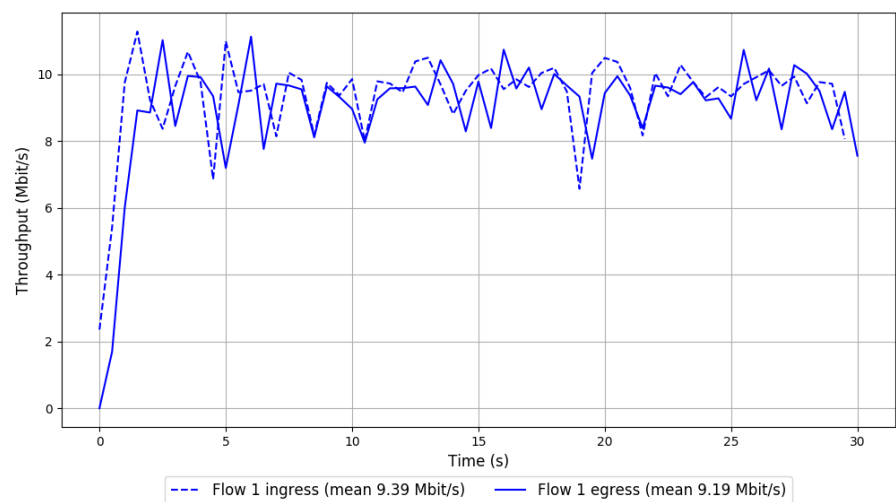
-- Flow 1:

Average throughput: 9.19 Mbit/s

95th percentile per-packet one-way delay: 46.285 ms

Loss rate: 2.42%

Run 4: Report of Sprout — Data Link

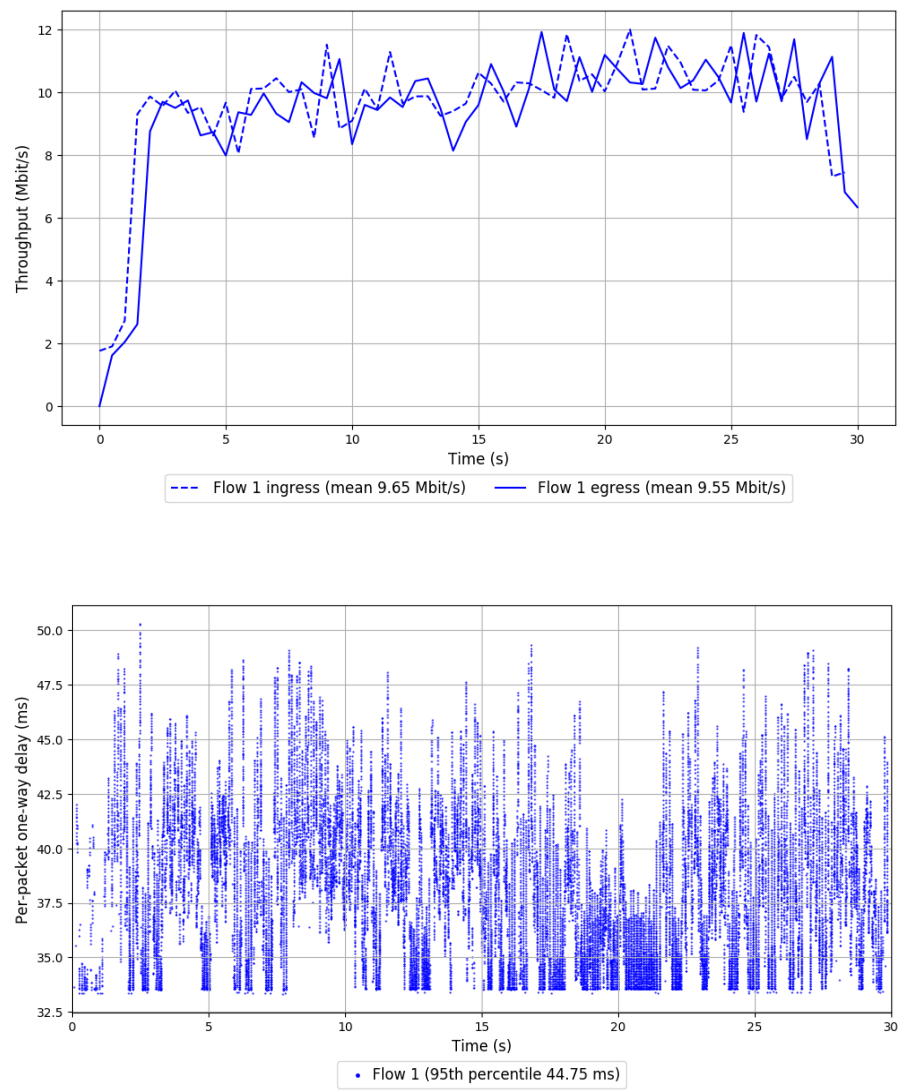


Run 5: Statistics of Sprout

Start at: 2018-06-30 08:33:38
End at: 2018-06-30 08:34:08
Local clock offset: 0.818 ms
Remote clock offset: -0.642 ms

Below is generated by plot.py at 2018-06-30 10:47:02
Datalink statistics
-- Total of 1 flow:
Average throughput: 9.55 Mbit/s
95th percentile per-packet one-way delay: 44.754 ms
Loss rate: 1.51%
-- Flow 1:
Average throughput: 9.55 Mbit/s
95th percentile per-packet one-way delay: 44.754 ms
Loss rate: 1.51%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-06-30 08:58:38

End at: 2018-06-30 08:59:08

Local clock offset: 0.325 ms

Remote clock offset: 0.968 ms

Below is generated by plot.py at 2018-06-30 10:47:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 9.55 Mbit/s

95th percentile per-packet one-way delay: 45.056 ms

Loss rate: 1.64%

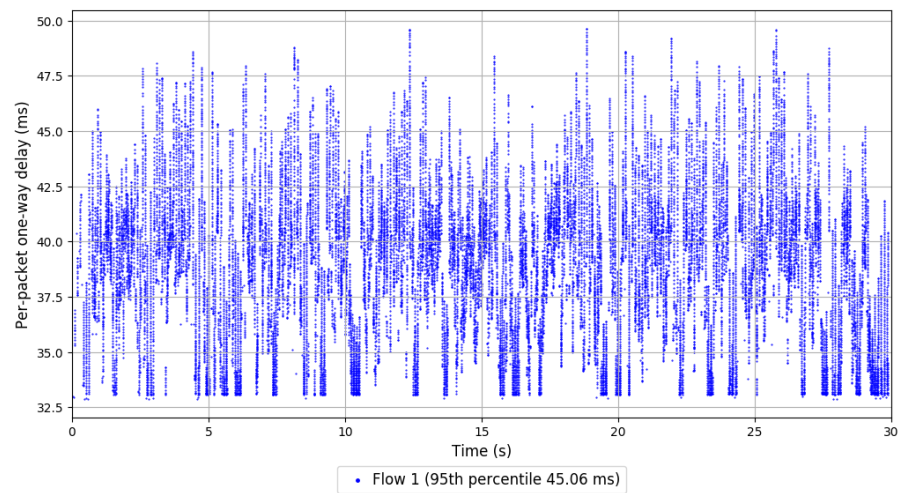
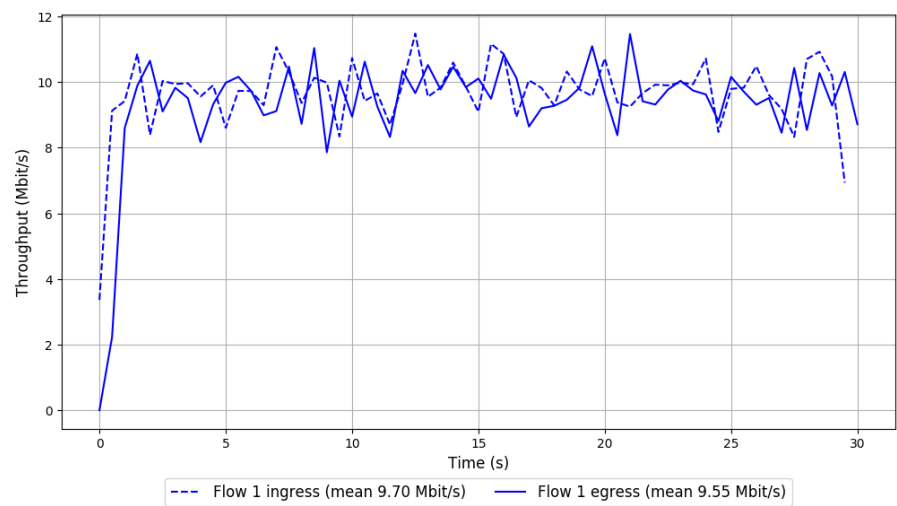
-- Flow 1:

Average throughput: 9.55 Mbit/s

95th percentile per-packet one-way delay: 45.056 ms

Loss rate: 1.64%

Run 6: Report of Sprout — Data Link

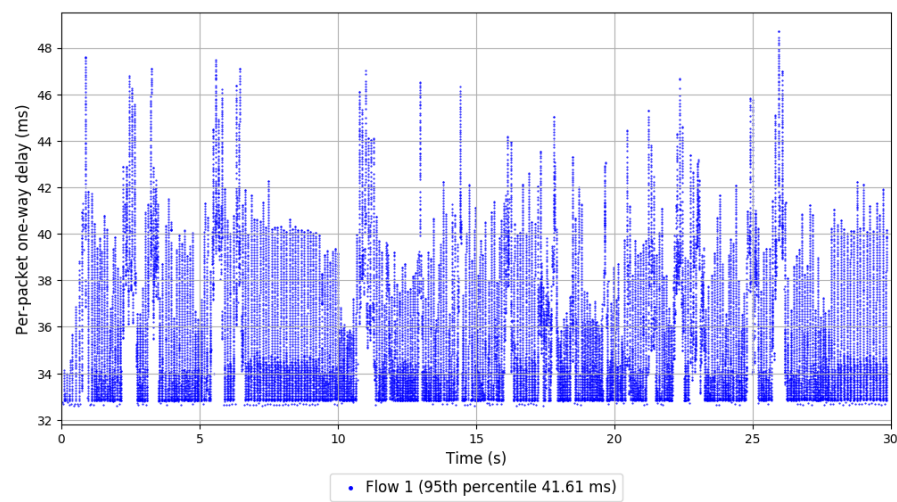
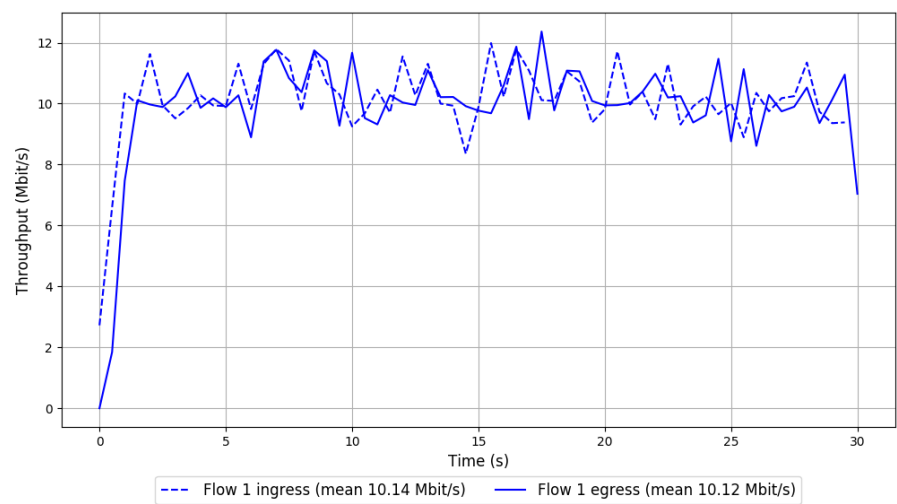


Run 7: Statistics of Sprout

Start at: 2018-06-30 09:23:30
End at: 2018-06-30 09:24:00
Local clock offset: 0.304 ms
Remote clock offset: 2.45 ms

Below is generated by plot.py at 2018-06-30 10:47:02
Datalink statistics
-- Total of 1 flow:
Average throughput: 10.12 Mbit/s
95th percentile per-packet one-way delay: 41.614 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 10.12 Mbit/s
95th percentile per-packet one-way delay: 41.614 ms
Loss rate: 0.60%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-06-30 09:46:36

End at: 2018-06-30 09:47:06

Local clock offset: 0.257 ms

Remote clock offset: 4.79 ms

Below is generated by plot.py at 2018-06-30 10:47:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 10.25 Mbit/s

95th percentile per-packet one-way delay: 40.641 ms

Loss rate: 0.32%

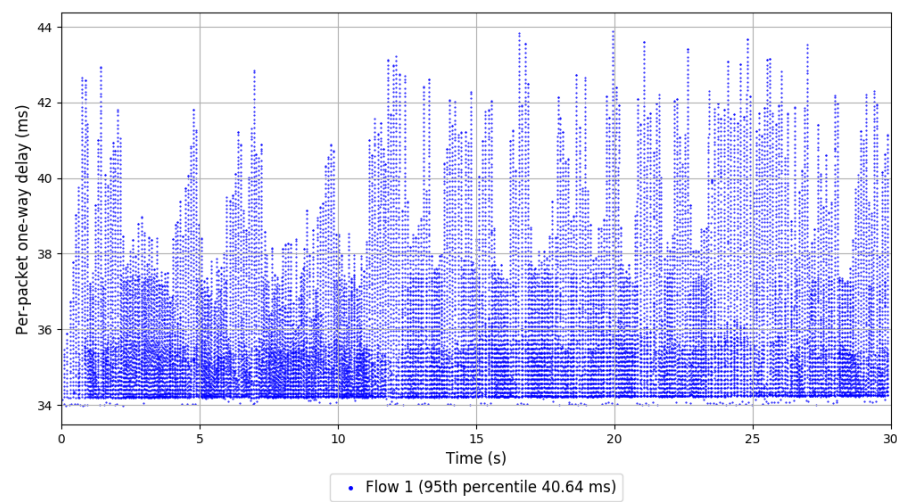
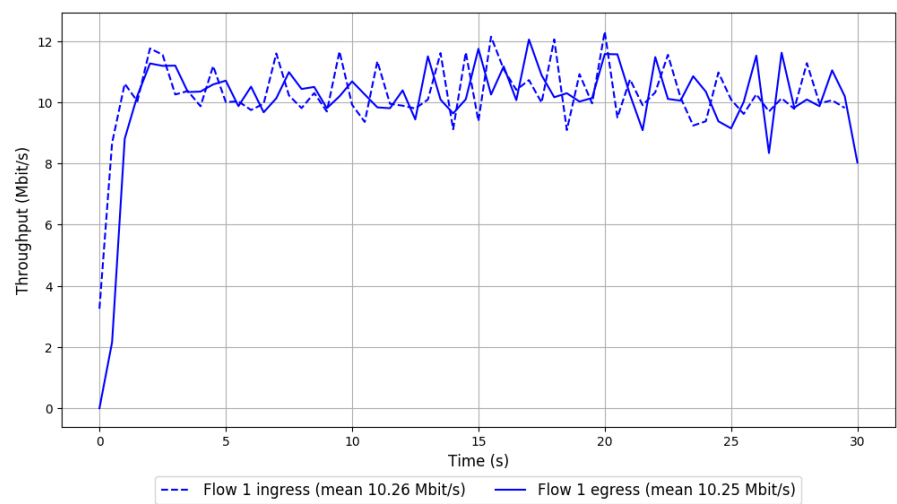
-- Flow 1:

Average throughput: 10.25 Mbit/s

95th percentile per-packet one-way delay: 40.641 ms

Loss rate: 0.32%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-06-30 10:09:26

End at: 2018-06-30 10:09:56

Local clock offset: 0.173 ms

Remote clock offset: 7.229 ms

Below is generated by plot.py at 2018-06-30 10:47:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 9.97 Mbit/s

95th percentile per-packet one-way delay: 40.531 ms

Loss rate: 0.30%

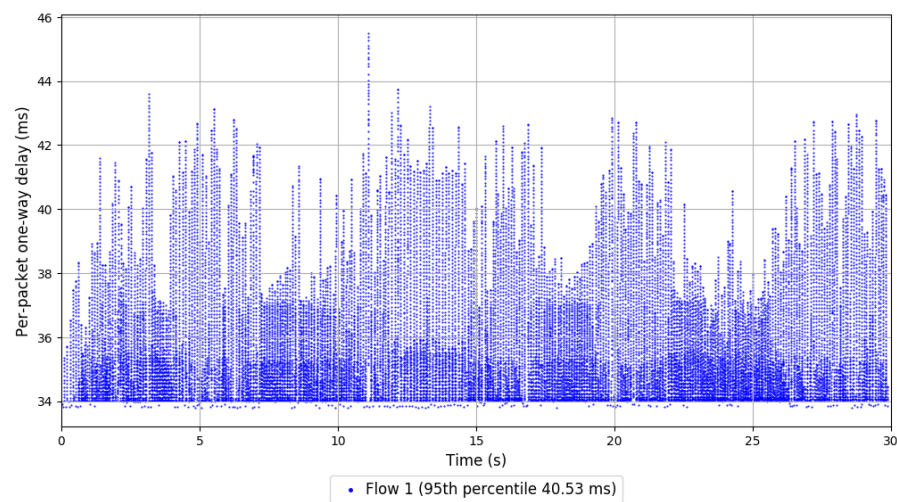
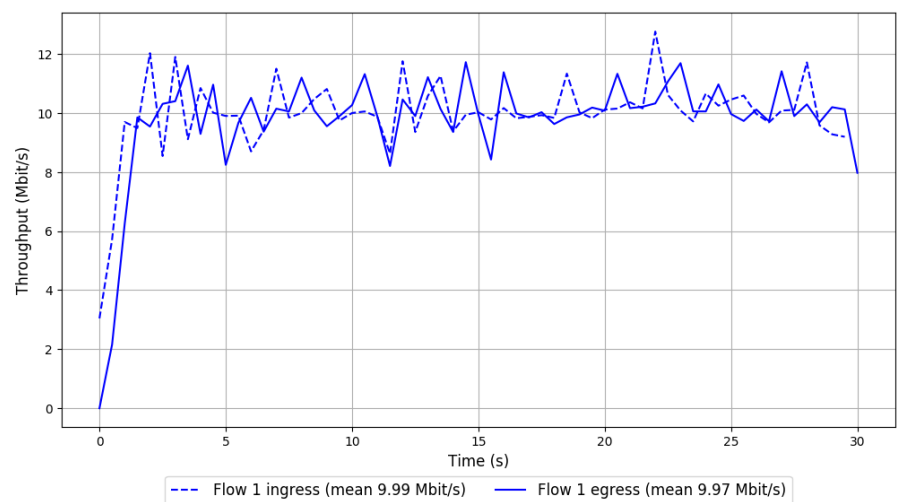
-- Flow 1:

Average throughput: 9.97 Mbit/s

95th percentile per-packet one-way delay: 40.531 ms

Loss rate: 0.30%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-06-30 10:32:18

End at: 2018-06-30 10:32:48

Local clock offset: 0.228 ms

Remote clock offset: 4.674 ms

Below is generated by plot.py at 2018-06-30 10:47:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 10.19 Mbit/s

95th percentile per-packet one-way delay: 38.742 ms

Loss rate: 0.31%

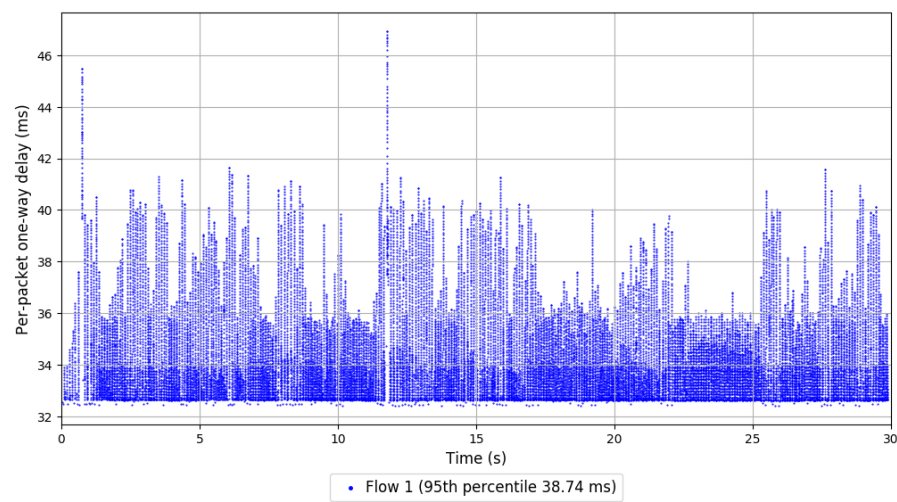
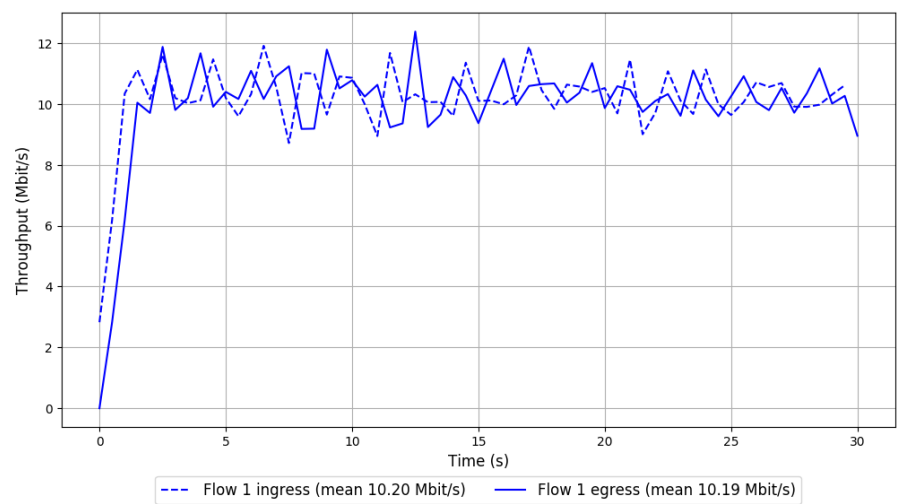
-- Flow 1:

Average throughput: 10.19 Mbit/s

95th percentile per-packet one-way delay: 38.742 ms

Loss rate: 0.31%

Run 10: Report of Sprout — Data Link

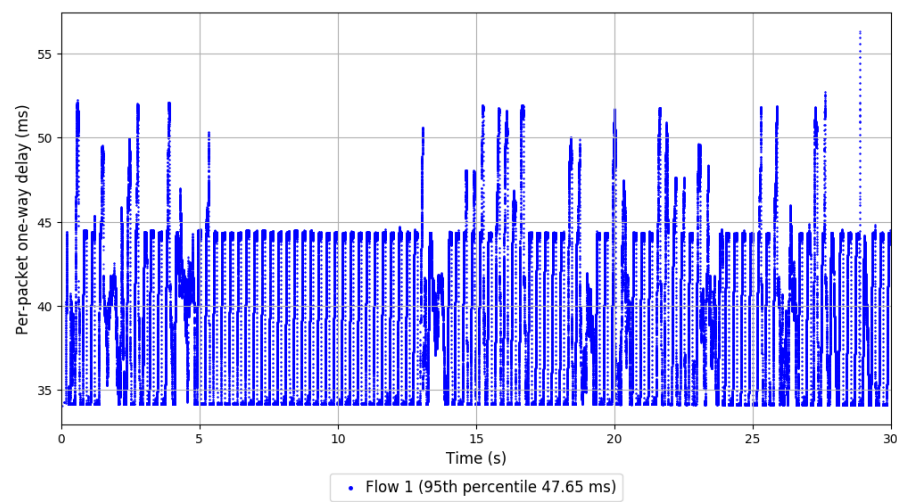
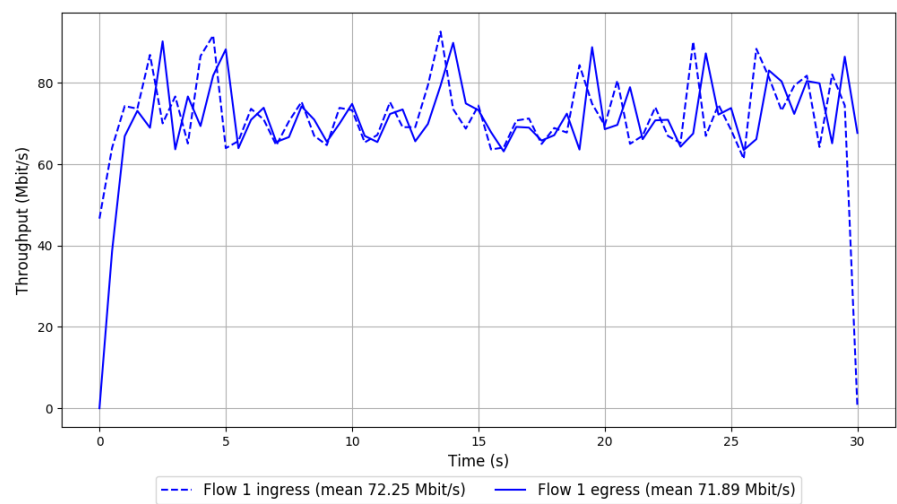


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-06-30 06:48:04
End at: 2018-06-30 06:48:34
Local clock offset: 0.437 ms
Remote clock offset: 5.073 ms

# Below is generated by plot.py at 2018-06-30 10:48:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 71.89 Mbit/s
95th percentile per-packet one-way delay: 47.647 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 71.89 Mbit/s
95th percentile per-packet one-way delay: 47.647 ms
Loss rate: 0.74%
```

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



Run 2: Statistics of TaoVA-100x

Start at: 2018-06-30 07:12:12

End at: 2018-06-30 07:12:42

Local clock offset: 0.792 ms

Remote clock offset: 4.398 ms

Below is generated by plot.py at 2018-06-30 10:48:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.10 Mbit/s

95th percentile per-packet one-way delay: 43.046 ms

Loss rate: 0.98%

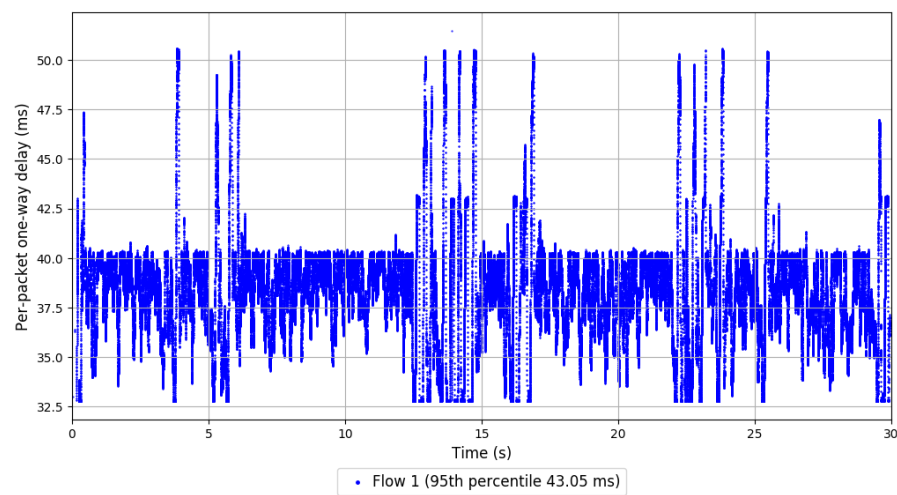
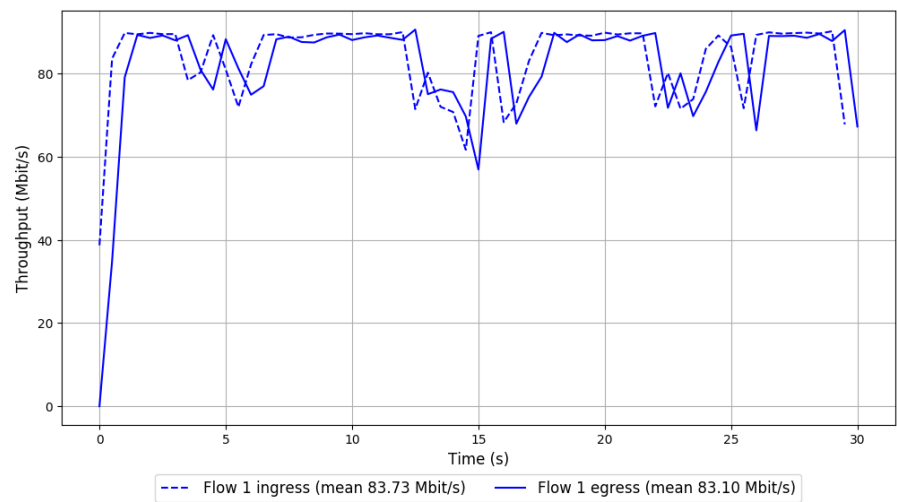
-- Flow 1:

Average throughput: 83.10 Mbit/s

95th percentile per-packet one-way delay: 43.046 ms

Loss rate: 0.98%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-06-30 07:37:25

End at: 2018-06-30 07:37:55

Local clock offset: 1.162 ms

Remote clock offset: 4.516 ms

Below is generated by plot.py at 2018-06-30 10:48:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.83 Mbit/s

95th percentile per-packet one-way delay: 46.707 ms

Loss rate: 1.81%

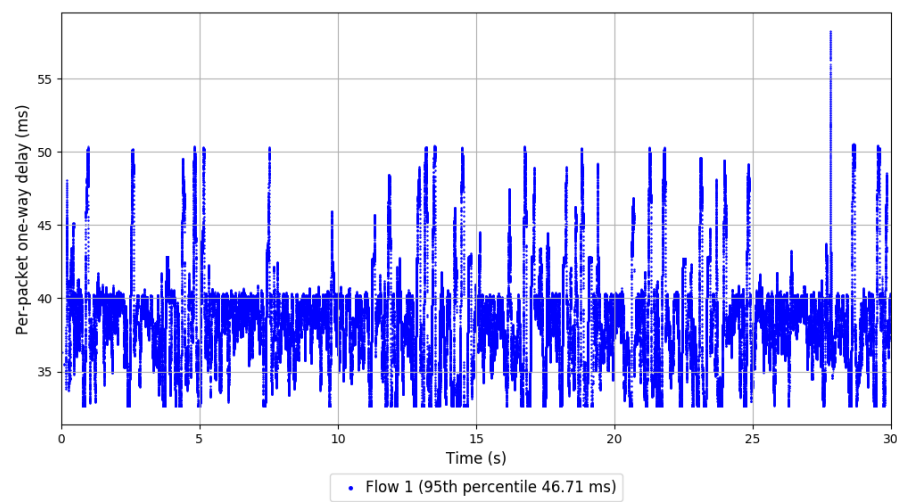
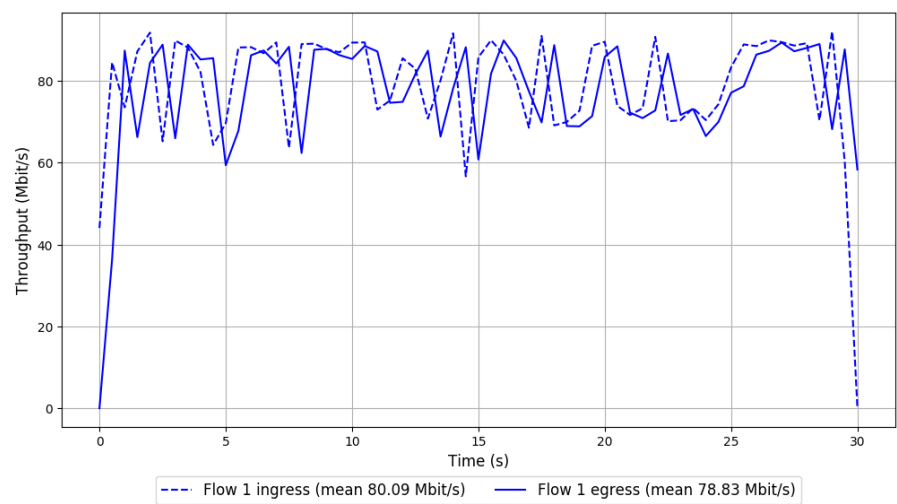
-- Flow 1:

Average throughput: 78.83 Mbit/s

95th percentile per-packet one-way delay: 46.707 ms

Loss rate: 1.81%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-06-30 08:03:43

End at: 2018-06-30 08:04:13

Local clock offset: 1.116 ms

Remote clock offset: 2.402 ms

Below is generated by plot.py at 2018-06-30 10:48:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.20 Mbit/s

95th percentile per-packet one-way delay: 41.766 ms

Loss rate: 2.01%

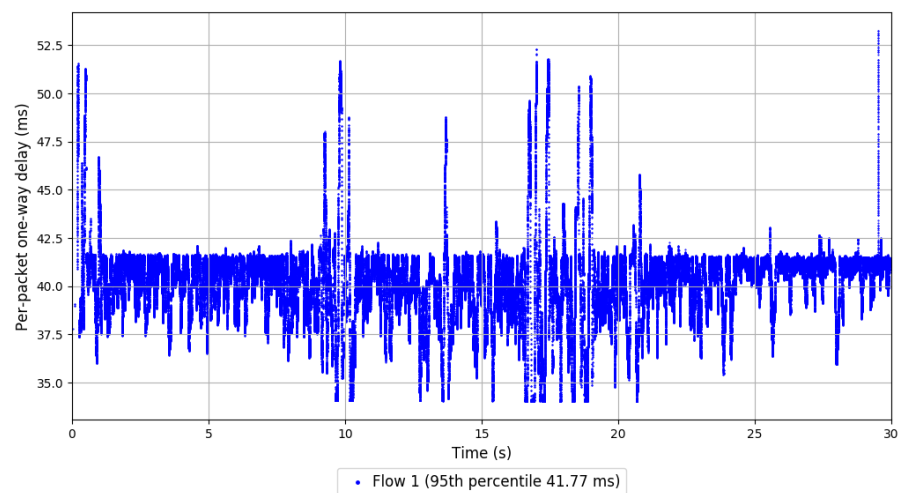
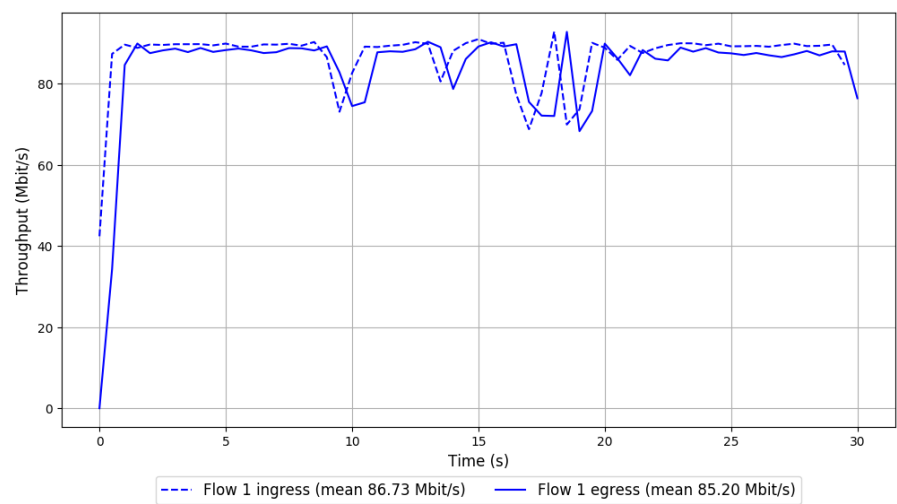
-- Flow 1:

Average throughput: 85.20 Mbit/s

95th percentile per-packet one-way delay: 41.766 ms

Loss rate: 2.01%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-06-30 08:29:33

End at: 2018-06-30 08:30:03

Local clock offset: 0.841 ms

Remote clock offset: -0.323 ms

Below is generated by plot.py at 2018-06-30 10:48:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 80.49 Mbit/s

95th percentile per-packet one-way delay: 44.918 ms

Loss rate: 1.11%

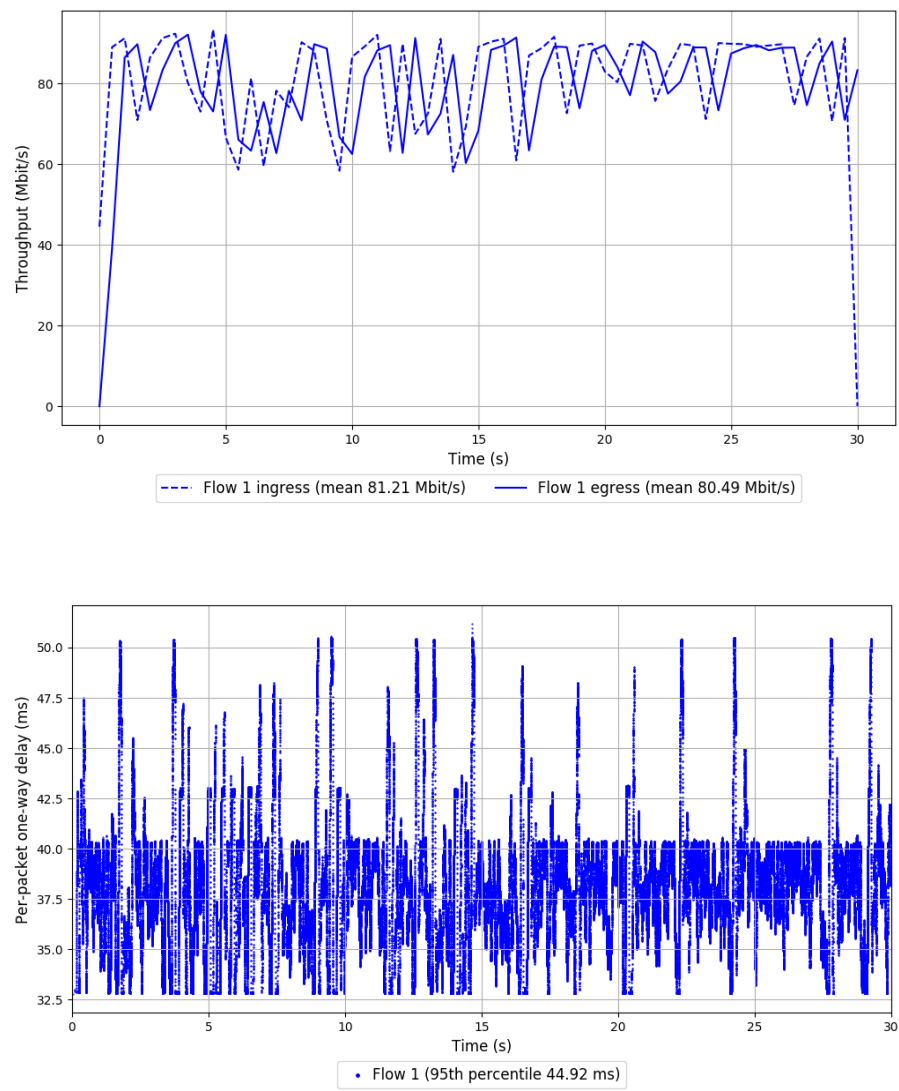
-- Flow 1:

Average throughput: 80.49 Mbit/s

95th percentile per-packet one-way delay: 44.918 ms

Loss rate: 1.11%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-06-30 08:54:39

End at: 2018-06-30 08:55:09

Local clock offset: 0.482 ms

Remote clock offset: 0.617 ms

Below is generated by plot.py at 2018-06-30 10:48:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 81.62 Mbit/s

95th percentile per-packet one-way delay: 45.017 ms

Loss rate: 1.19%

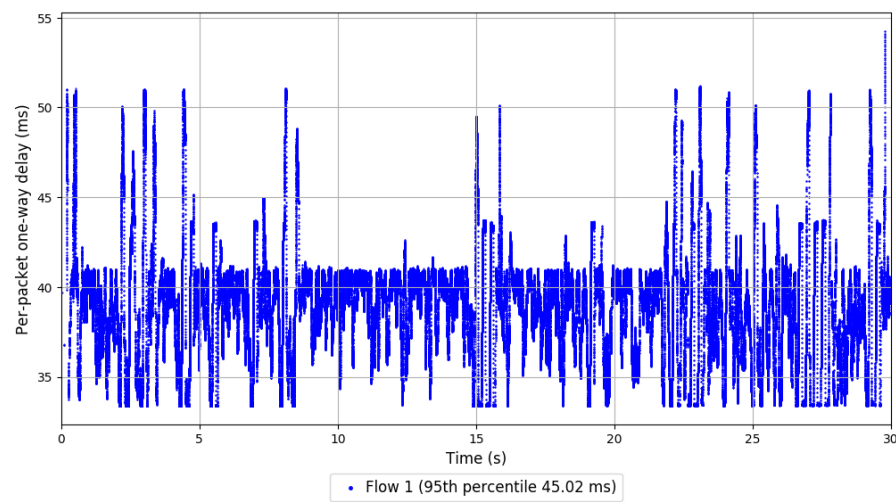
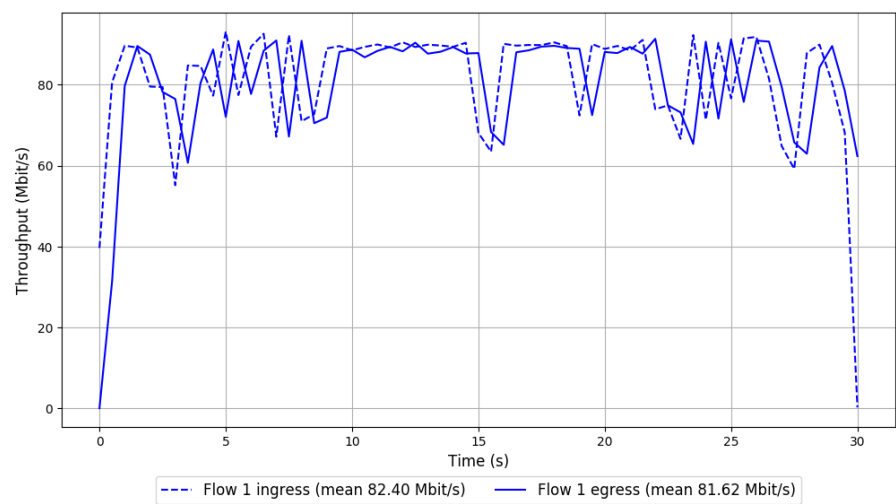
-- Flow 1:

Average throughput: 81.62 Mbit/s

95th percentile per-packet one-way delay: 45.017 ms

Loss rate: 1.19%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-06-30 09:20:33

End at: 2018-06-30 09:21:03

Local clock offset: 0.281 ms

Remote clock offset: 2.144 ms

Below is generated by plot.py at 2018-06-30 10:48:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.29 Mbit/s

95th percentile per-packet one-way delay: 47.638 ms

Loss rate: 0.82%

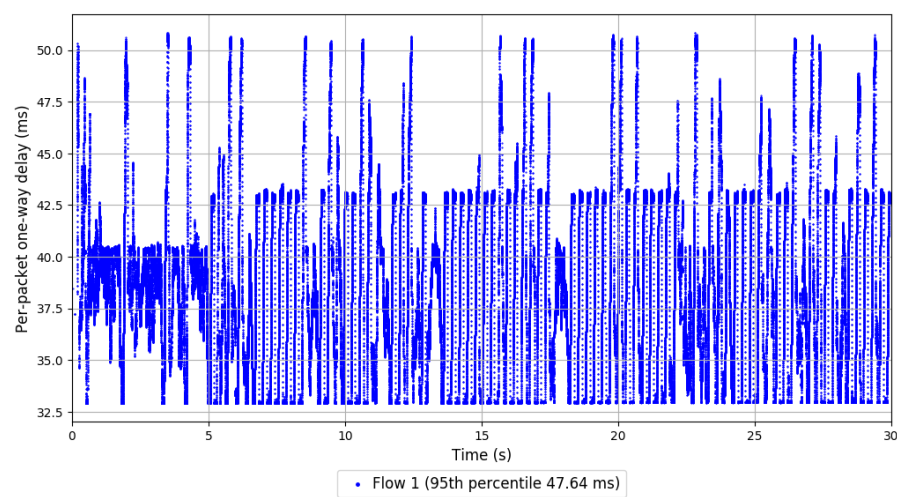
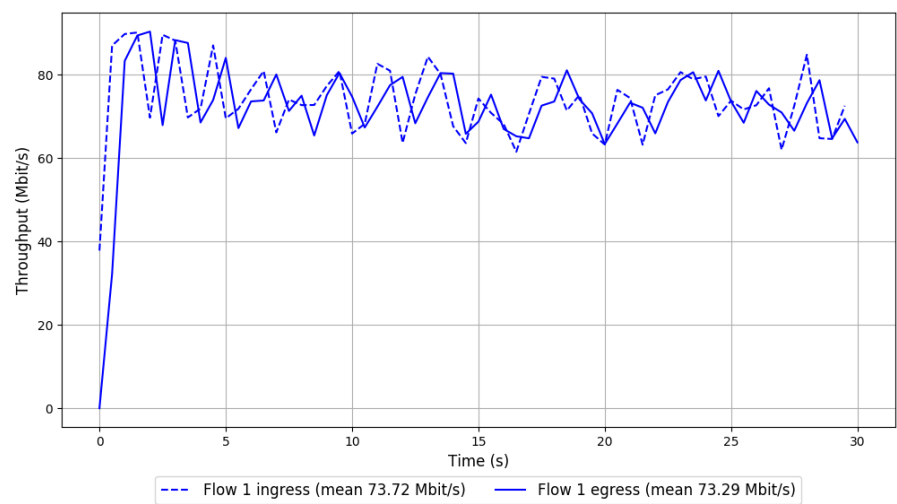
-- Flow 1:

Average throughput: 73.29 Mbit/s

95th percentile per-packet one-way delay: 47.638 ms

Loss rate: 0.82%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-06-30 09:43:47

End at: 2018-06-30 09:44:17

Local clock offset: 0.249 ms

Remote clock offset: 4.359 ms

Below is generated by plot.py at 2018-06-30 10:48:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.54 Mbit/s

95th percentile per-packet one-way delay: 44.351 ms

Loss rate: 0.37%

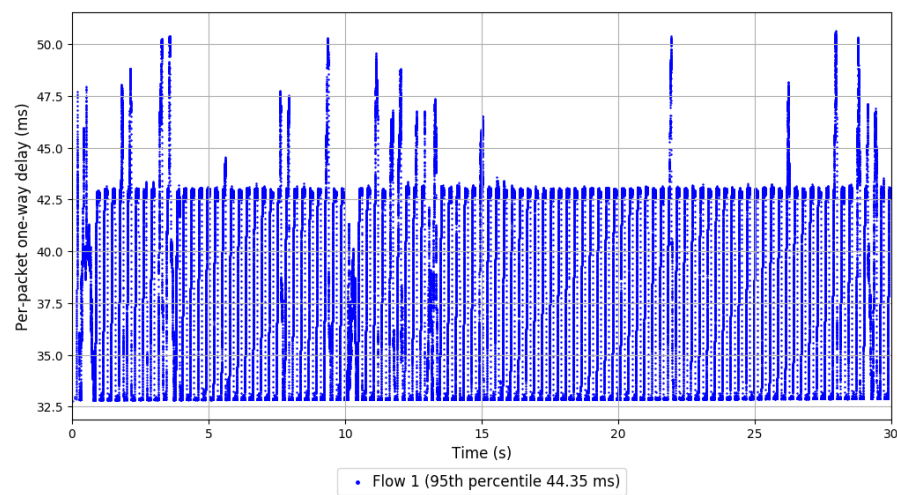
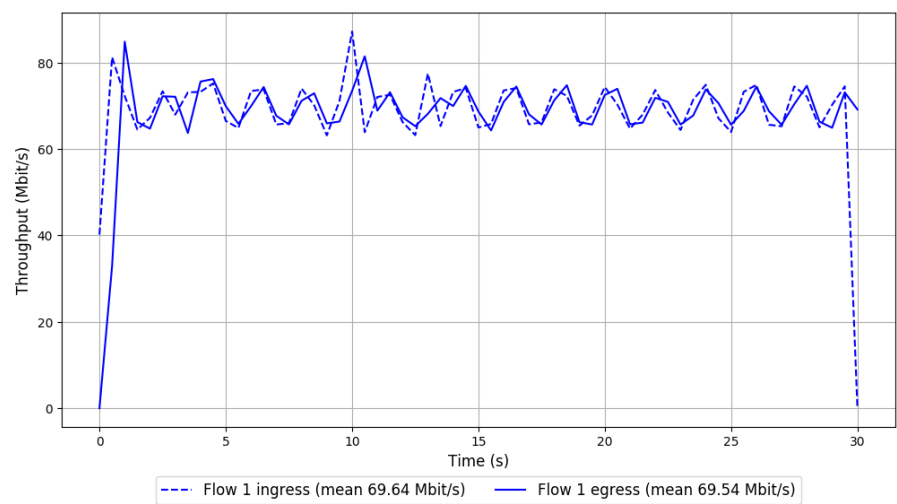
-- Flow 1:

Average throughput: 69.54 Mbit/s

95th percentile per-packet one-way delay: 44.351 ms

Loss rate: 0.37%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-06-30 10:06:28

End at: 2018-06-30 10:06:58

Local clock offset: 0.179 ms

Remote clock offset: 6.926 ms

Below is generated by plot.py at 2018-06-30 10:49:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 70.65 Mbit/s

95th percentile per-packet one-way delay: 45.059 ms

Loss rate: 0.38%

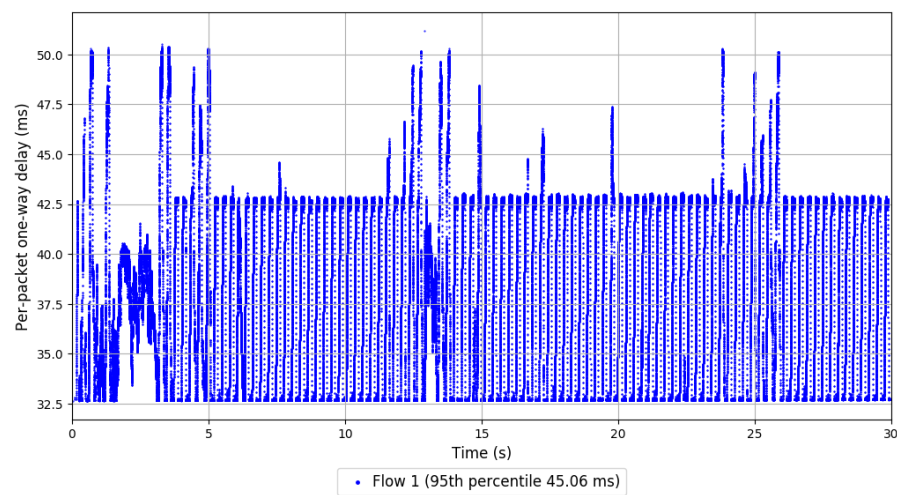
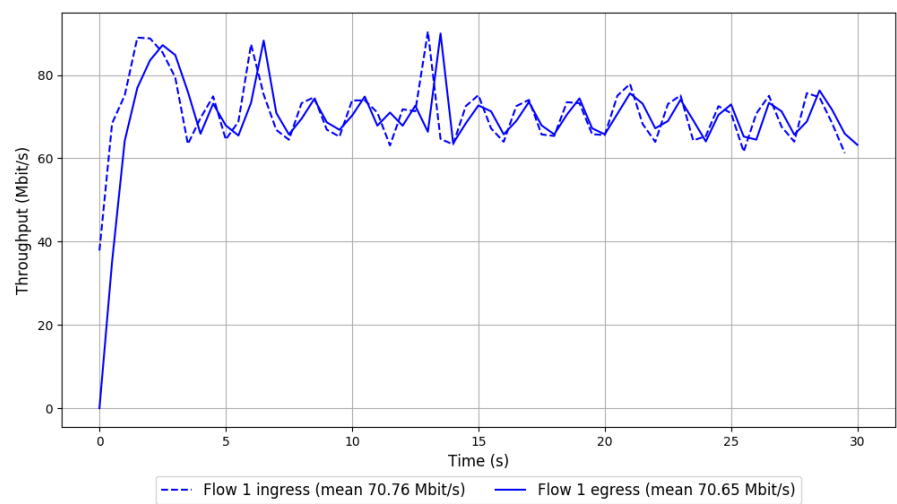
-- Flow 1:

Average throughput: 70.65 Mbit/s

95th percentile per-packet one-way delay: 45.059 ms

Loss rate: 0.38%

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



Run 10: Statistics of TaoVA-100x

Start at: 2018-06-30 10:29:32

End at: 2018-06-30 10:30:02

Local clock offset: 0.293 ms

Remote clock offset: 4.747 ms

Below is generated by plot.py at 2018-06-30 10:49:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 70.17 Mbit/s

95th percentile per-packet one-way delay: 44.233 ms

Loss rate: 0.38%

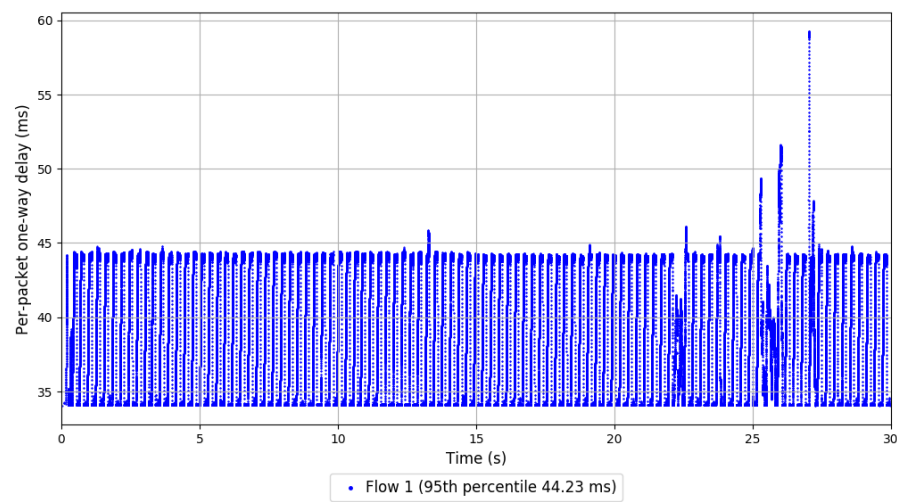
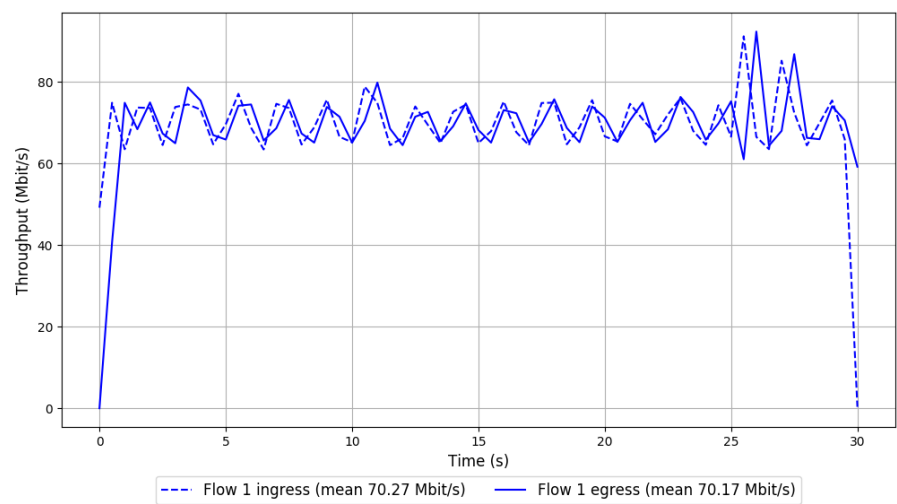
-- Flow 1:

Average throughput: 70.17 Mbit/s

95th percentile per-packet one-way delay: 44.233 ms

Loss rate: 0.38%

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



Run 1: Statistics of TCP Vegas

Start at: 2018-06-30 06:36:10

End at: 2018-06-30 06:36:40

Local clock offset: 0.68 ms

Remote clock offset: 3.999 ms

Below is generated by plot.py at 2018-06-30 10:49:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 20.86 Mbit/s

95th percentile per-packet one-way delay: 42.389 ms

Loss rate: 0.36%

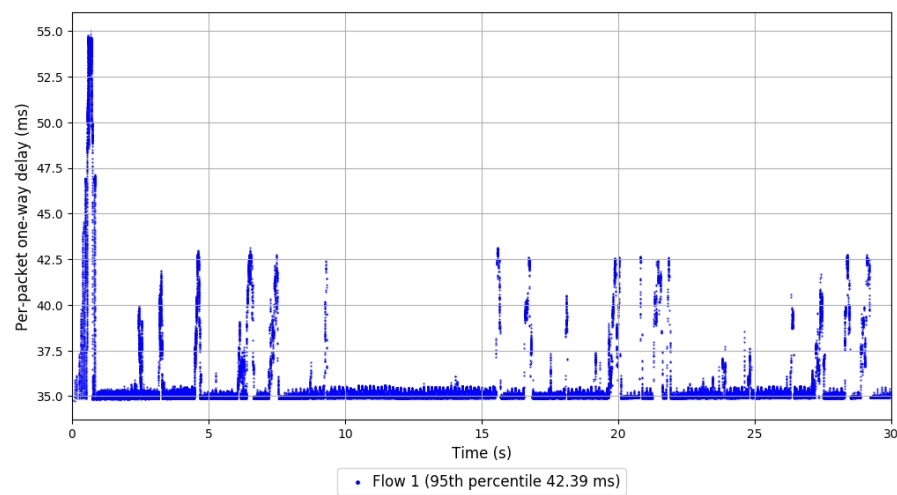
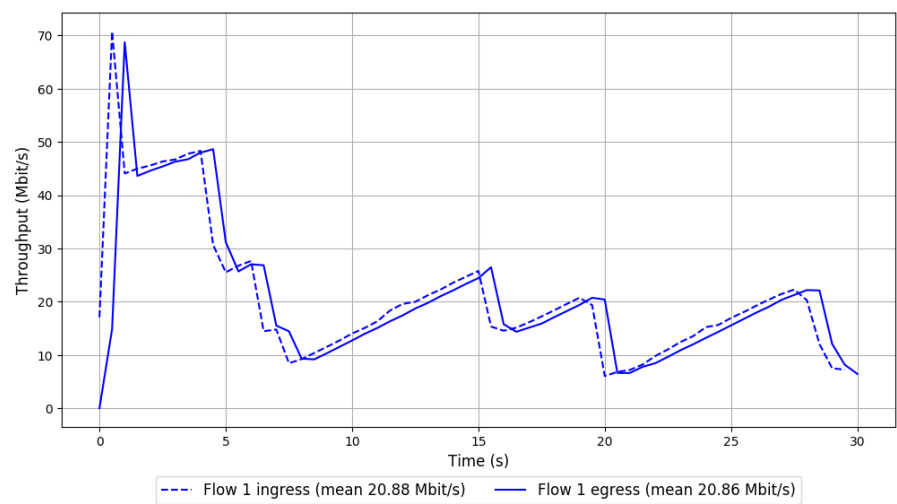
-- Flow 1:

Average throughput: 20.86 Mbit/s

95th percentile per-packet one-way delay: 42.389 ms

Loss rate: 0.36%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-06-30 06:58:31

End at: 2018-06-30 06:59:01

Local clock offset: 0.667 ms

Remote clock offset: 4.494 ms

Below is generated by plot.py at 2018-06-30 10:49:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 24.50 Mbit/s

95th percentile per-packet one-way delay: 40.067 ms

Loss rate: 0.34%

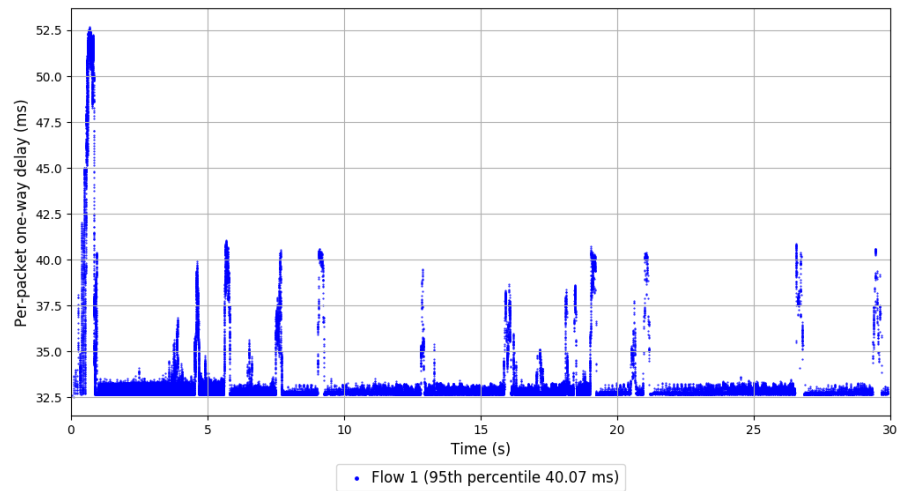
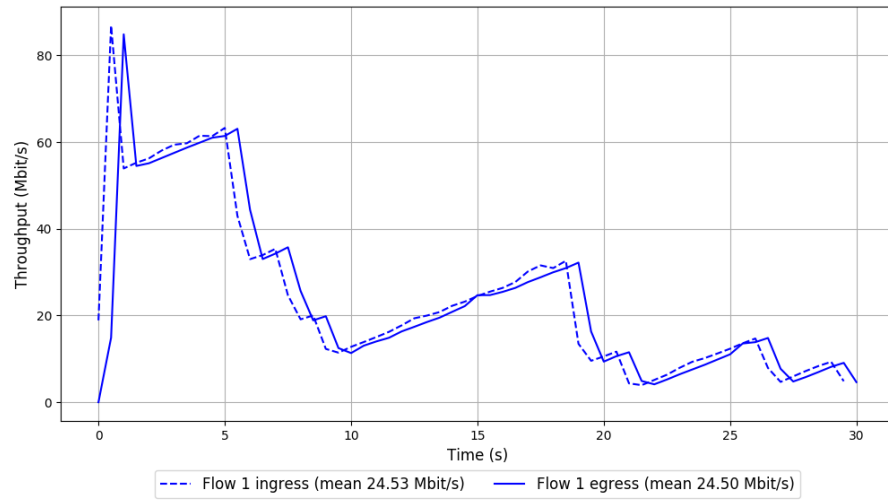
-- Flow 1:

Average throughput: 24.50 Mbit/s

95th percentile per-packet one-way delay: 40.067 ms

Loss rate: 0.34%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-06-30 07:24:15

End at: 2018-06-30 07:24:45

Local clock offset: 1.011 ms

Remote clock offset: 4.672 ms

Below is generated by plot.py at 2018-06-30 10:49:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.58 Mbit/s

95th percentile per-packet one-way delay: 40.201 ms

Loss rate: 1.14%

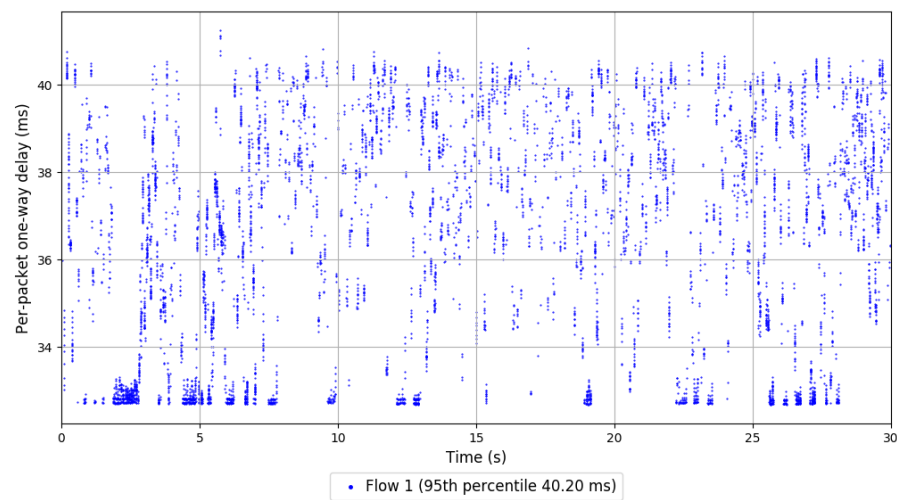
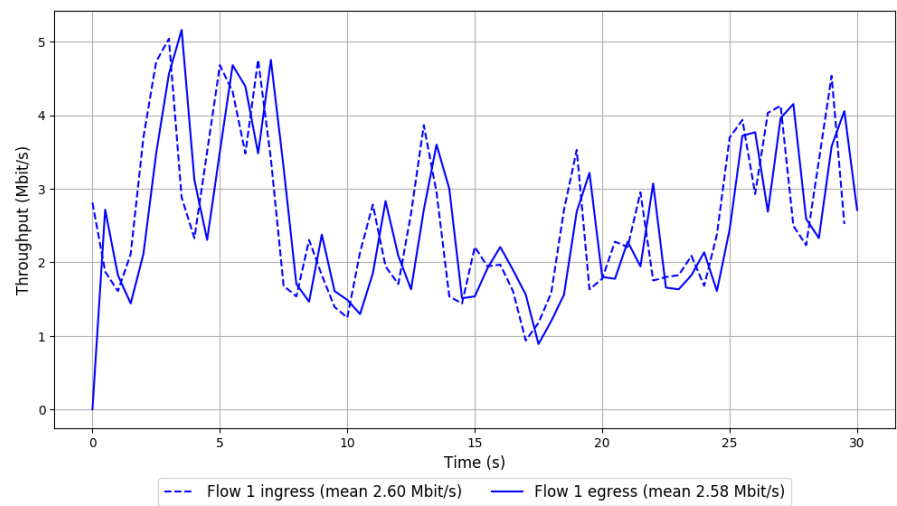
-- Flow 1:

Average throughput: 2.58 Mbit/s

95th percentile per-packet one-way delay: 40.201 ms

Loss rate: 1.14%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-06-30 07:50:16

End at: 2018-06-30 07:50:46

Local clock offset: 1.207 ms

Remote clock offset: 4.673 ms

Below is generated by plot.py at 2018-06-30 10:49:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.38 Mbit/s

95th percentile per-packet one-way delay: 40.525 ms

Loss rate: 1.72%

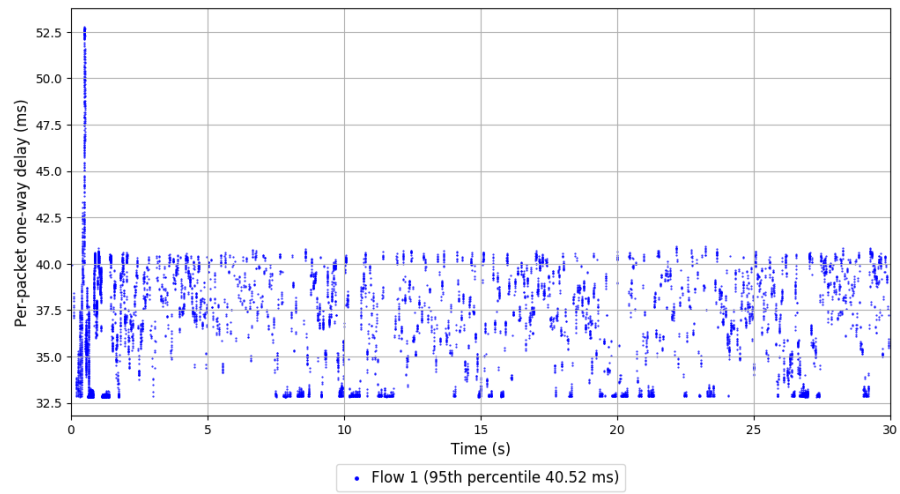
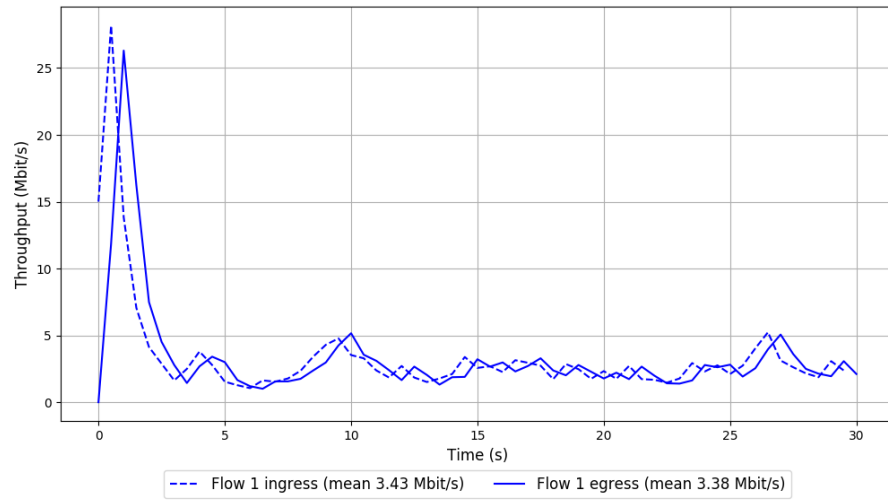
-- Flow 1:

Average throughput: 3.38 Mbit/s

95th percentile per-packet one-way delay: 40.525 ms

Loss rate: 1.72%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-06-30 08:16:22

End at: 2018-06-30 08:16:52

Local clock offset: 1.064 ms

Remote clock offset: 0.605 ms

Below is generated by plot.py at 2018-06-30 10:49:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.37 Mbit/s

95th percentile per-packet one-way delay: 40.381 ms

Loss rate: 1.52%

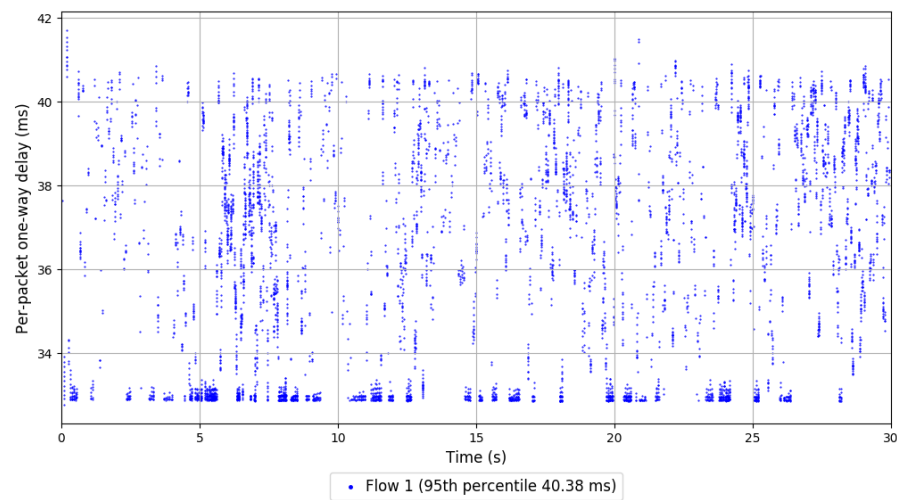
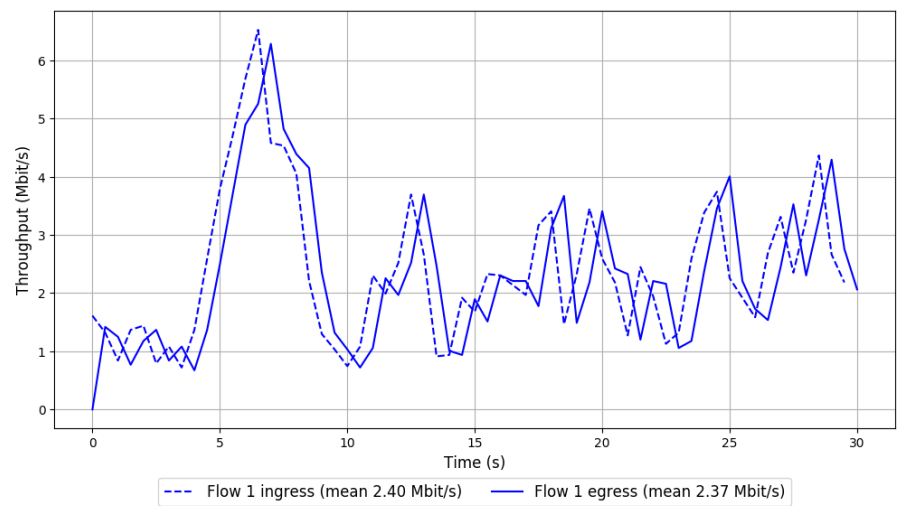
-- Flow 1:

Average throughput: 2.37 Mbit/s

95th percentile per-packet one-way delay: 40.381 ms

Loss rate: 1.52%

Run 5: Report of TCP Vegas — Data Link

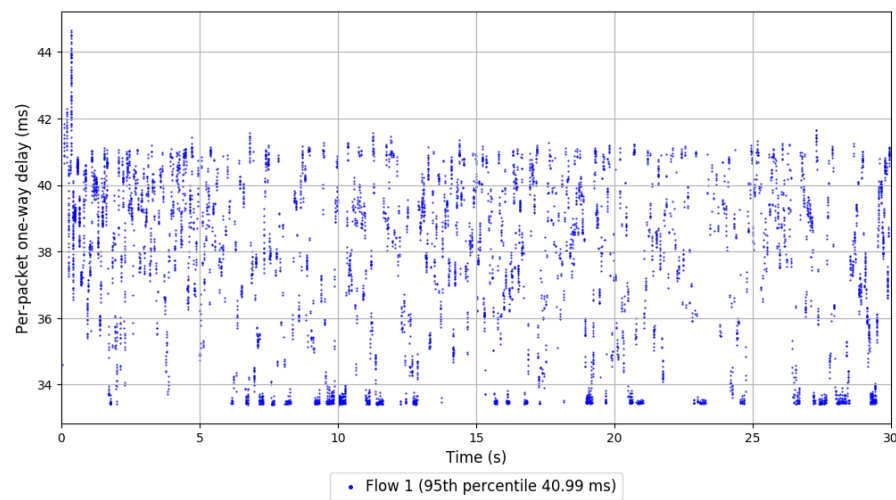
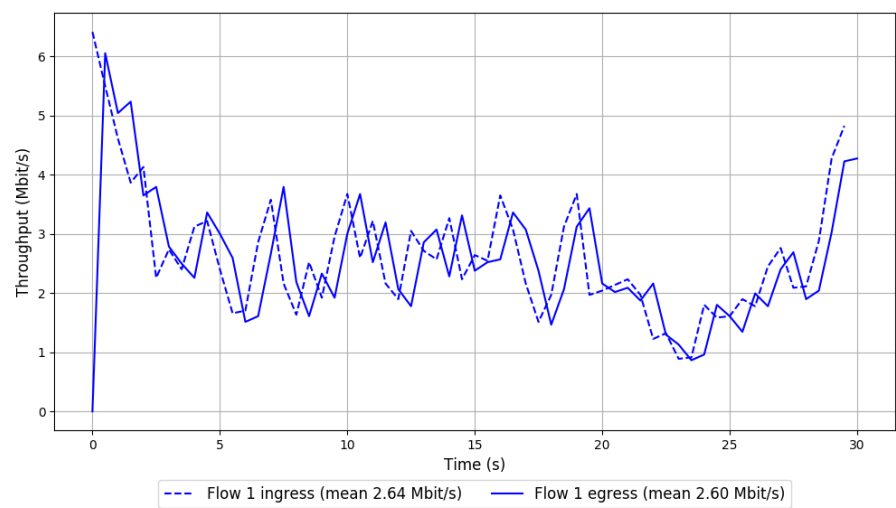


Run 6: Statistics of TCP Vegas

Start at: 2018-06-30 08:41:49
End at: 2018-06-30 08:42:19
Local clock offset: 0.645 ms
Remote clock offset: -0.003 ms

Below is generated by plot.py at 2018-06-30 10:49:53
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.60 Mbit/s
95th percentile per-packet one-way delay: 40.991 ms
Loss rate: 1.56%
-- Flow 1:
Average throughput: 2.60 Mbit/s
95th percentile per-packet one-way delay: 40.991 ms
Loss rate: 1.56%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-06-30 09:06:49

End at: 2018-06-30 09:07:19

Local clock offset: 0.302 ms

Remote clock offset: 3.492 ms

Below is generated by plot.py at 2018-06-30 10:49:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.65 Mbit/s

95th percentile per-packet one-way delay: 38.495 ms

Loss rate: 1.20%

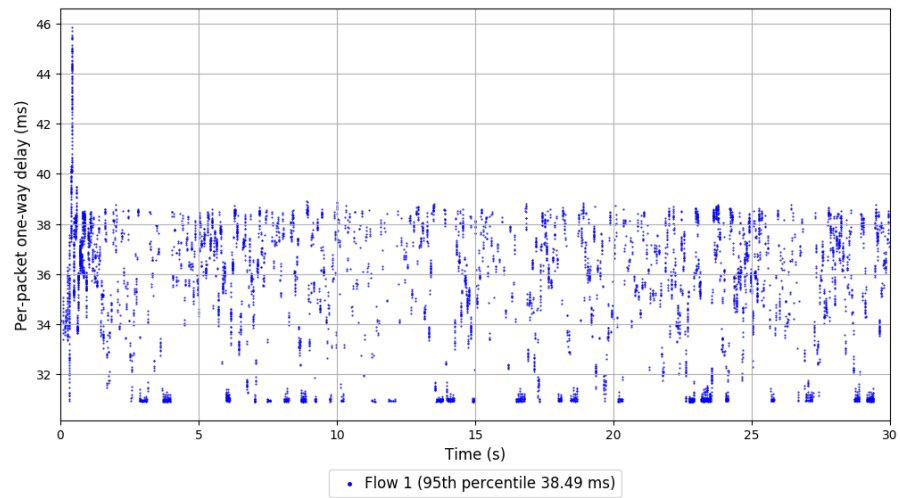
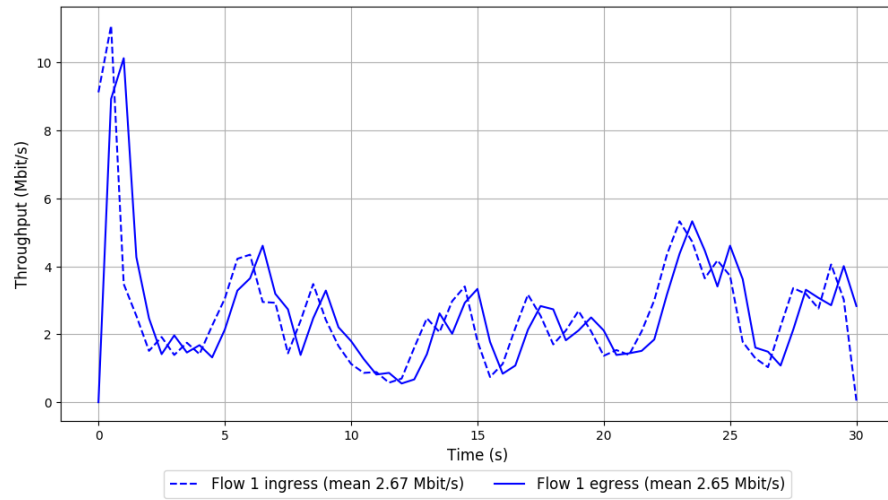
-- Flow 1:

Average throughput: 2.65 Mbit/s

95th percentile per-packet one-way delay: 38.495 ms

Loss rate: 1.20%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-06-30 09:31:21

End at: 2018-06-30 09:31:51

Local clock offset: 0.302 ms

Remote clock offset: 3.147 ms

Below is generated by plot.py at 2018-06-30 10:49:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.23 Mbit/s

95th percentile per-packet one-way delay: 40.094 ms

Loss rate: 0.76%

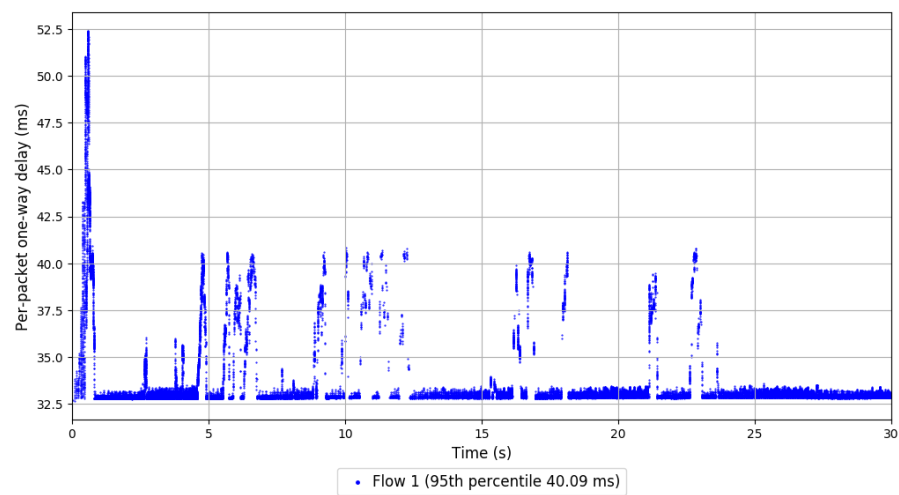
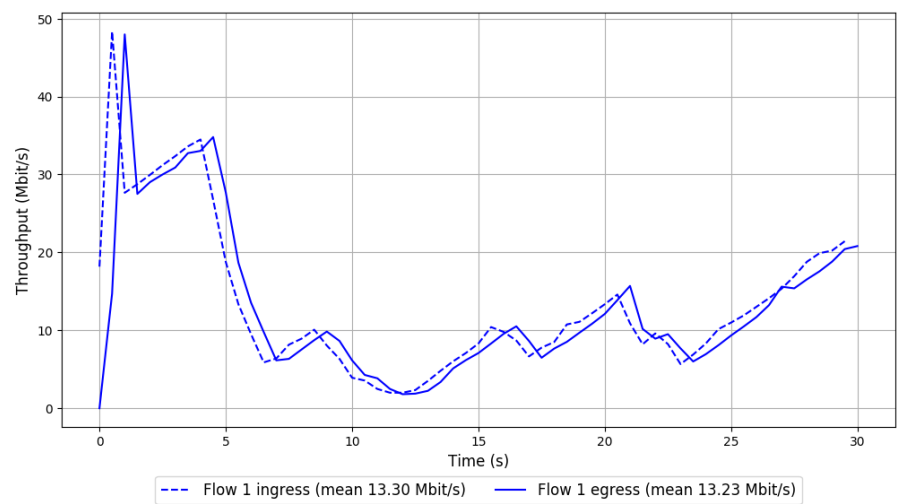
-- Flow 1:

Average throughput: 13.23 Mbit/s

95th percentile per-packet one-way delay: 40.094 ms

Loss rate: 0.76%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-06-30 09:54:28

End at: 2018-06-30 09:54:58

Local clock offset: 0.189 ms

Remote clock offset: 5.62 ms

Below is generated by plot.py at 2018-06-30 10:49:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 31.89 Mbit/s

95th percentile per-packet one-way delay: 34.245 ms

Loss rate: 0.25%

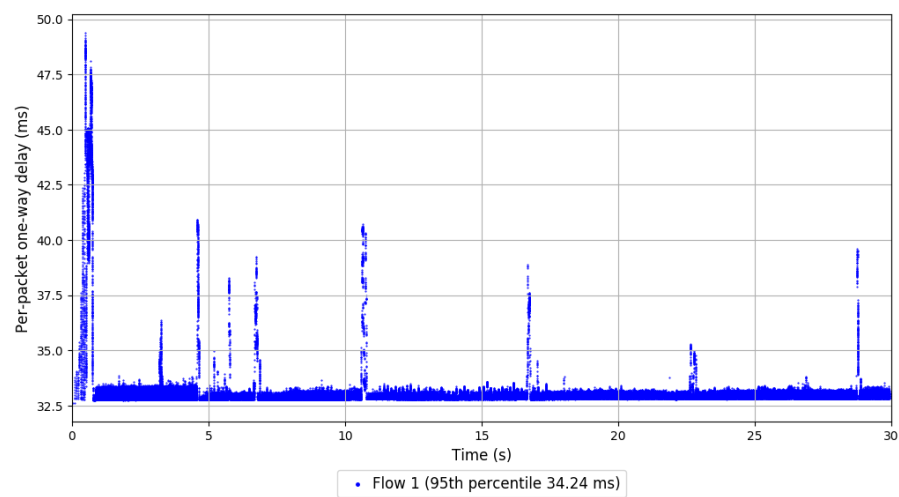
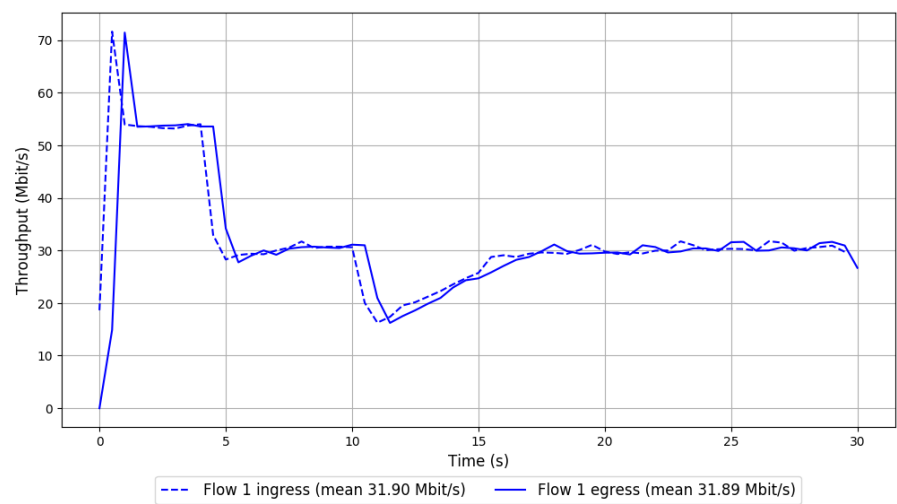
-- Flow 1:

Average throughput: 31.89 Mbit/s

95th percentile per-packet one-way delay: 34.245 ms

Loss rate: 0.25%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-06-30 10:17:24

End at: 2018-06-30 10:17:54

Local clock offset: 0.171 ms

Remote clock offset: 6.222 ms

Below is generated by plot.py at 2018-06-30 10:49:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 27.84 Mbit/s

95th percentile per-packet one-way delay: 39.950 ms

Loss rate: 0.32%

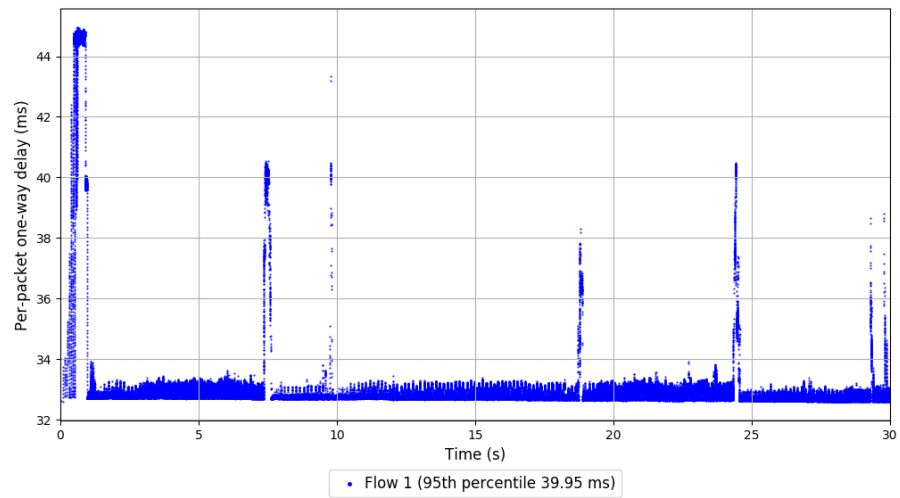
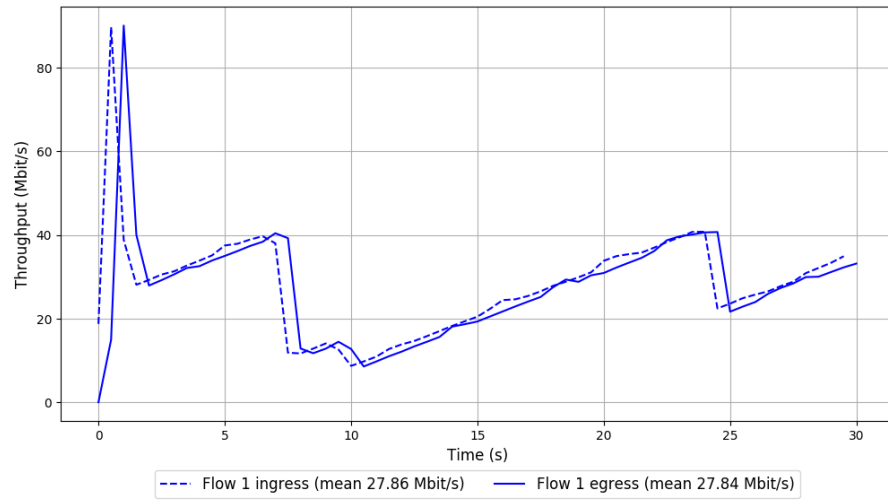
-- Flow 1:

Average throughput: 27.84 Mbit/s

95th percentile per-packet one-way delay: 39.950 ms

Loss rate: 0.32%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-06-30 06:38:46

End at: 2018-06-30 06:39:16

Local clock offset: 0.444 ms

Remote clock offset: 4.65 ms

Below is generated by plot.py at 2018-06-30 10:49:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.82 Mbit/s

95th percentile per-packet one-way delay: 51.009 ms

Loss rate: 0.75%

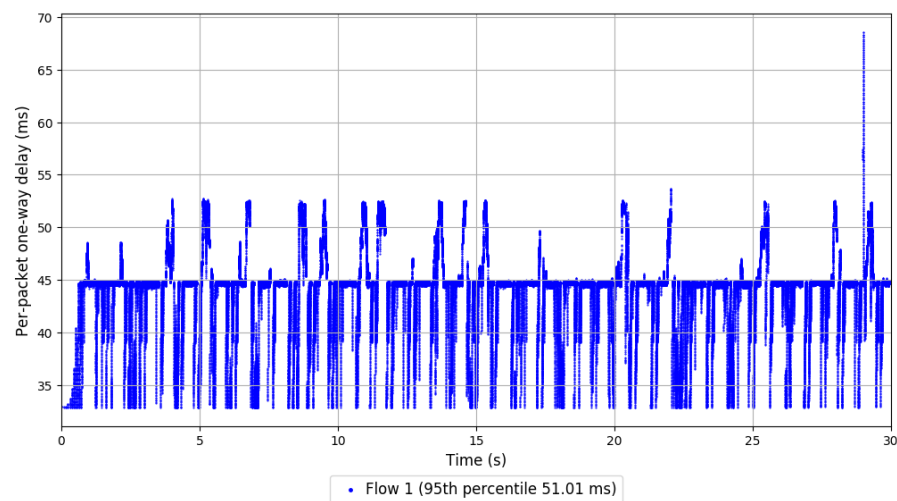
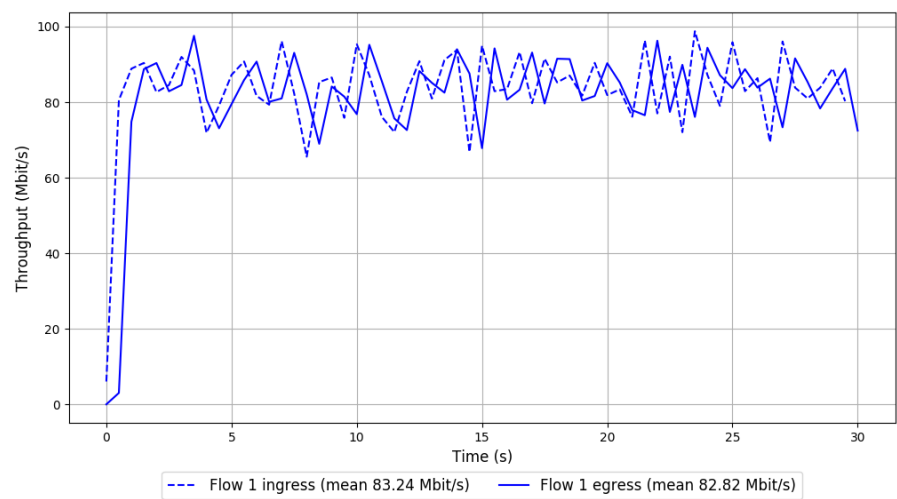
-- Flow 1:

Average throughput: 82.82 Mbit/s

95th percentile per-packet one-way delay: 51.009 ms

Loss rate: 0.75%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-06-30 07:01:41

End at: 2018-06-30 07:02:12

Local clock offset: 0.811 ms

Remote clock offset: 4.508 ms

Below is generated by plot.py at 2018-06-30 10:49:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.86 Mbit/s

95th percentile per-packet one-way delay: 52.078 ms

Loss rate: 1.50%

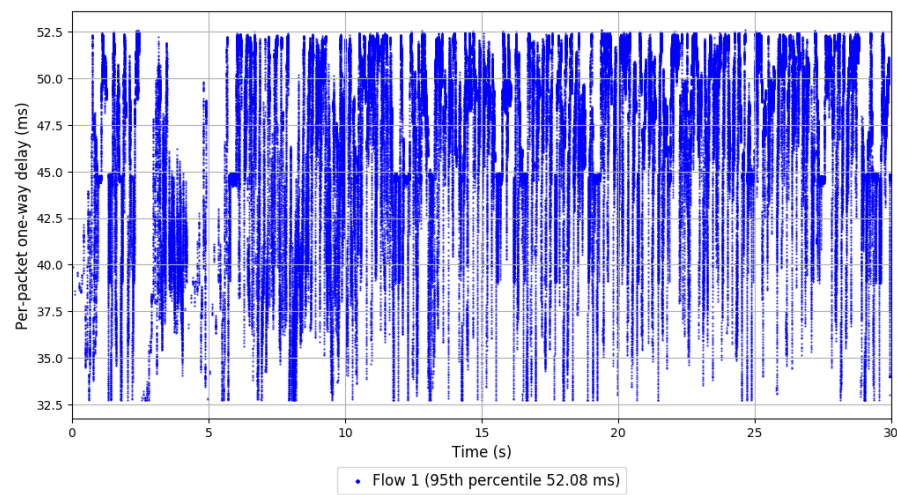
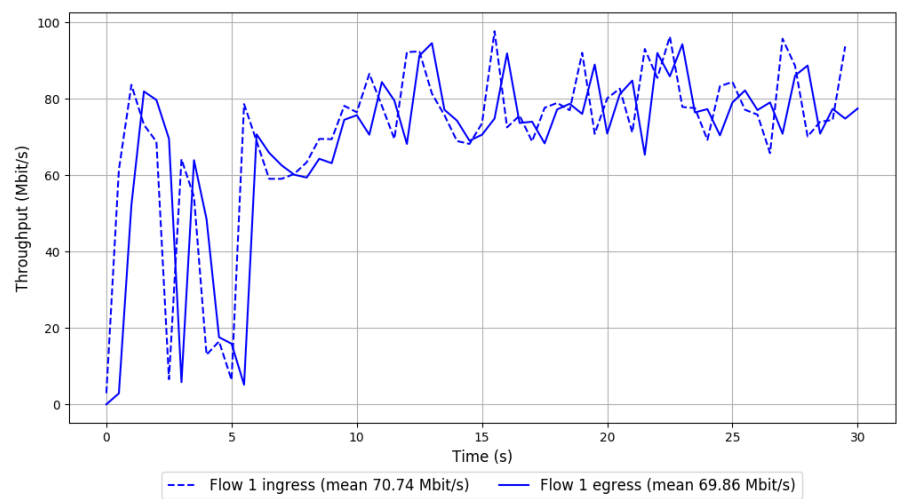
-- Flow 1:

Average throughput: 69.86 Mbit/s

95th percentile per-packet one-way delay: 52.078 ms

Loss rate: 1.50%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-06-30 07:27:03

End at: 2018-06-30 07:27:33

Local clock offset: 1.156 ms

Remote clock offset: 3.948 ms

Below is generated by plot.py at 2018-06-30 10:49:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.19 Mbit/s

95th percentile per-packet one-way delay: 52.752 ms

Loss rate: 1.58%

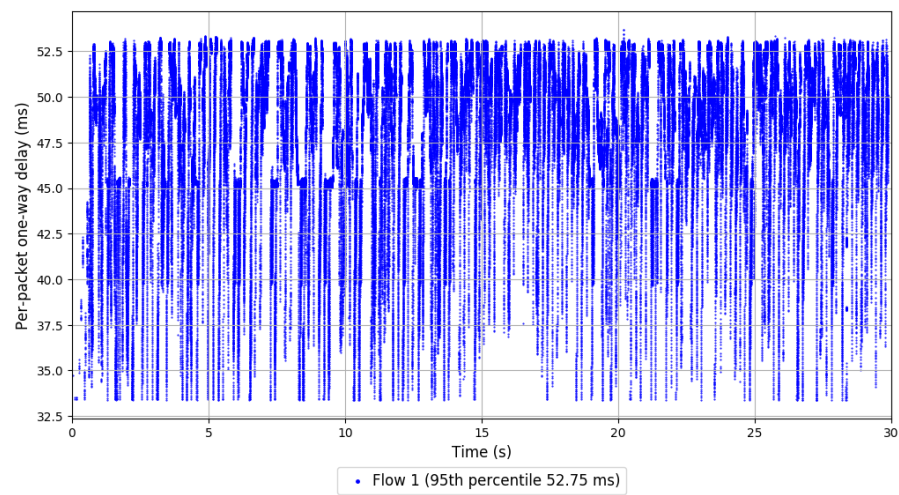
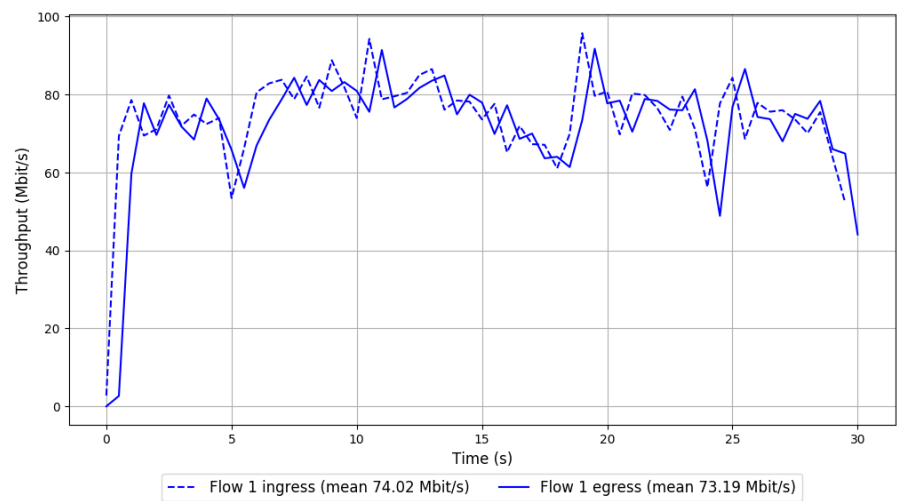
-- Flow 1:

Average throughput: 73.19 Mbit/s

95th percentile per-packet one-way delay: 52.752 ms

Loss rate: 1.58%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-06-30 07:52:59

End at: 2018-06-30 07:53:29

Local clock offset: 1.176 ms

Remote clock offset: 4.055 ms

Below is generated by plot.py at 2018-06-30 10:49:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.45 Mbit/s

95th percentile per-packet one-way delay: 54.181 ms

Loss rate: 1.74%

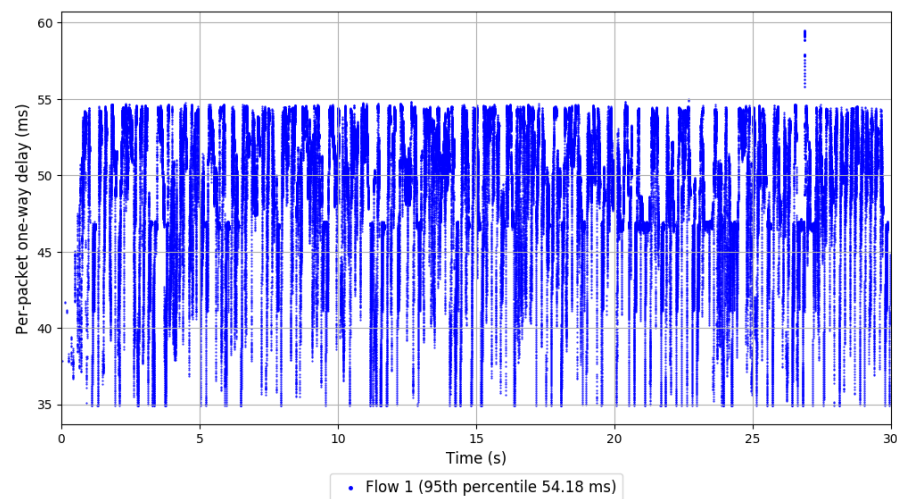
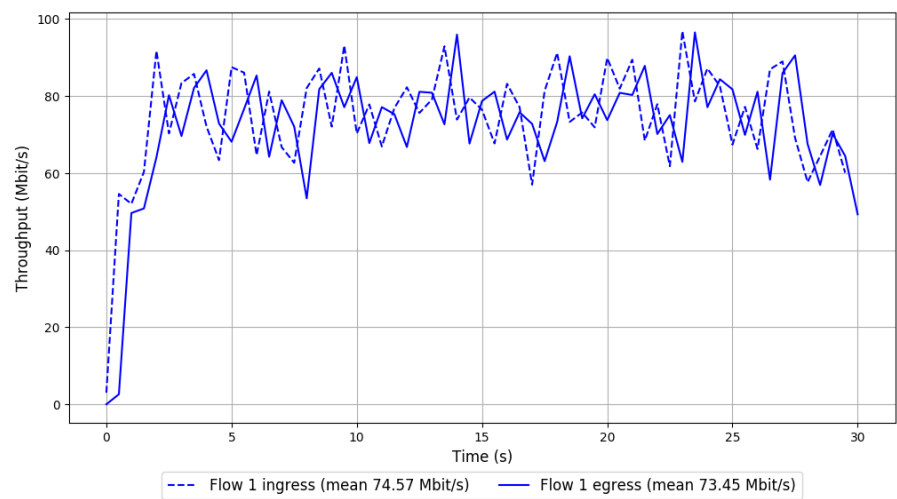
-- Flow 1:

Average throughput: 73.45 Mbit/s

95th percentile per-packet one-way delay: 54.181 ms

Loss rate: 1.74%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-06-30 08:18:59

End at: 2018-06-30 08:19:29

Local clock offset: 0.913 ms

Remote clock offset: 0.356 ms

Below is generated by plot.py at 2018-06-30 10:49:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.47 Mbit/s

95th percentile per-packet one-way delay: 53.334 ms

Loss rate: 1.27%

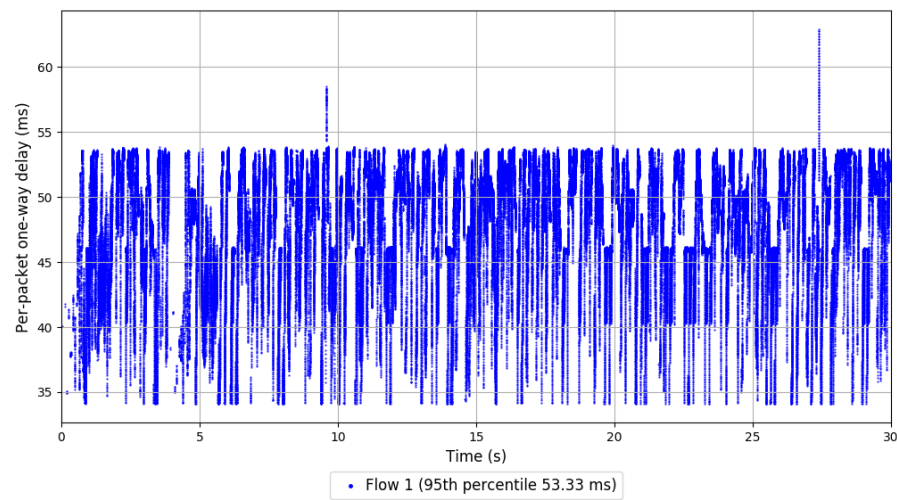
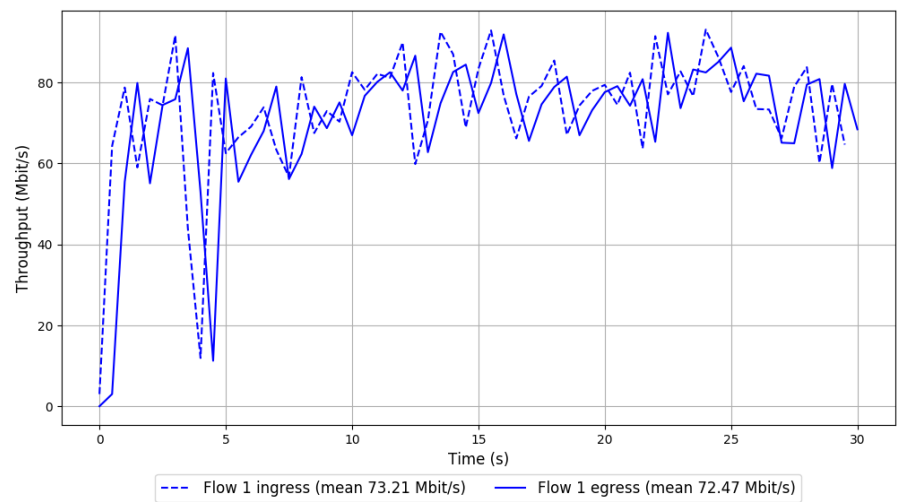
-- Flow 1:

Average throughput: 72.47 Mbit/s

95th percentile per-packet one-way delay: 53.334 ms

Loss rate: 1.27%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-06-30 08:44:32

End at: 2018-06-30 08:45:02

Local clock offset: 0.707 ms

Remote clock offset: 0.709 ms

Below is generated by plot.py at 2018-06-30 10:49:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.71 Mbit/s

95th percentile per-packet one-way delay: 53.614 ms

Loss rate: 1.76%

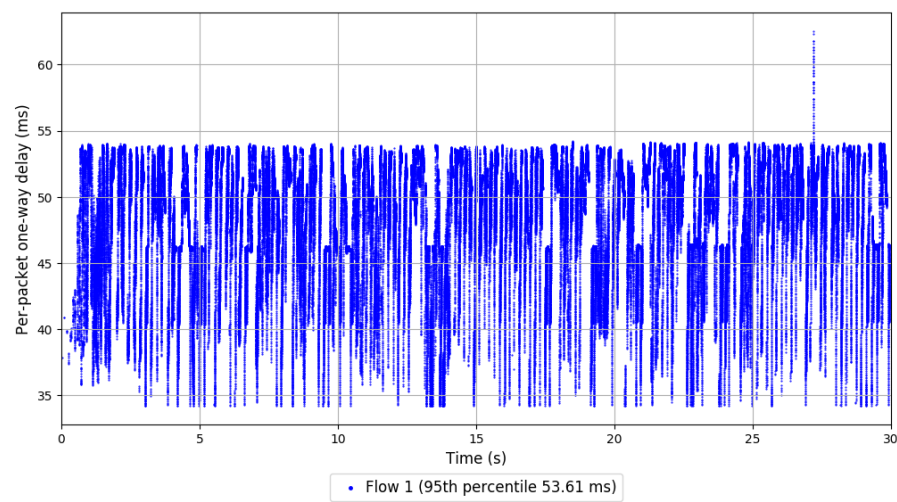
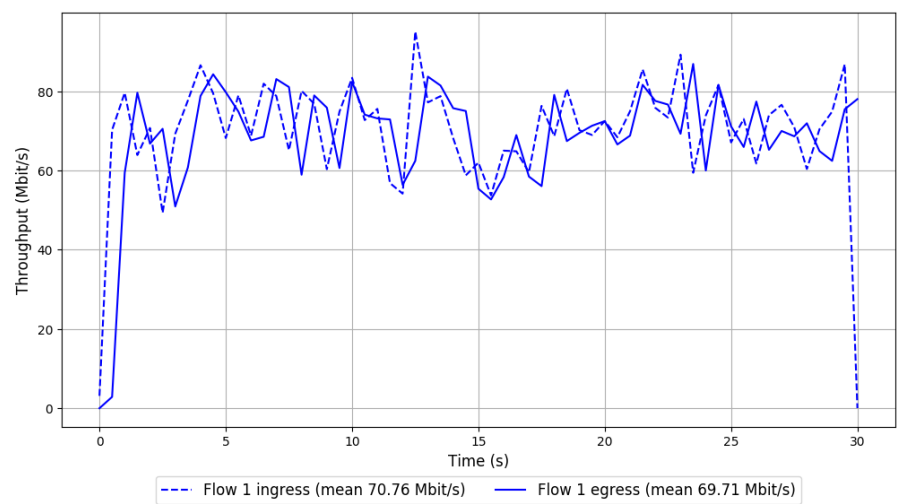
-- Flow 1:

Average throughput: 69.71 Mbit/s

95th percentile per-packet one-way delay: 53.614 ms

Loss rate: 1.76%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-06-30 09:09:23

End at: 2018-06-30 09:09:53

Local clock offset: 0.275 ms

Remote clock offset: 1.176 ms

Below is generated by plot.py at 2018-06-30 10:50:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 70.38 Mbit/s

95th percentile per-packet one-way delay: 53.840 ms

Loss rate: 1.49%

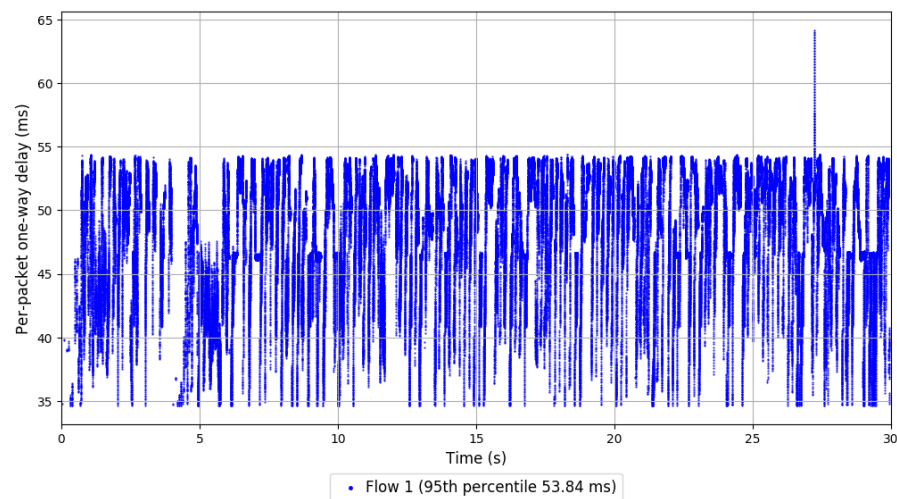
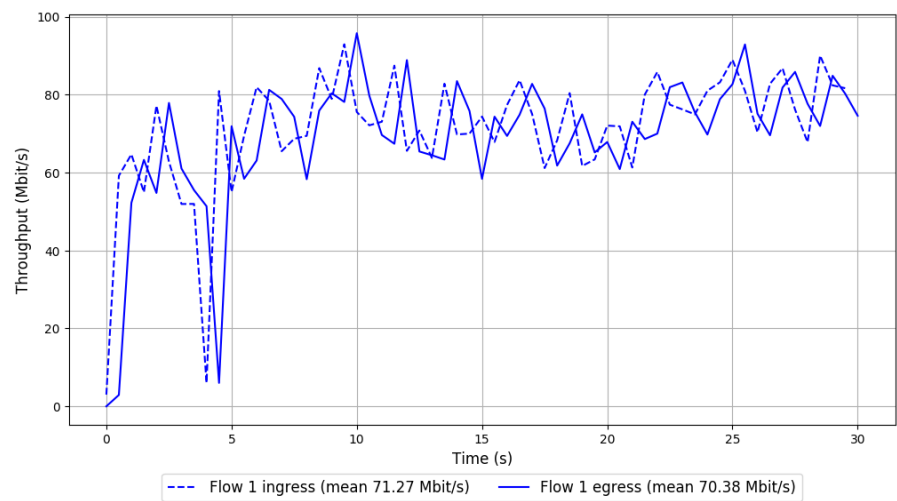
-- Flow 1:

Average throughput: 70.38 Mbit/s

95th percentile per-packet one-way delay: 53.840 ms

Loss rate: 1.49%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-06-30 09:34:07

End at: 2018-06-30 09:34:37

Local clock offset: 0.303 ms

Remote clock offset: 3.428 ms

Below is generated by plot.py at 2018-06-30 10:50:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 81.33 Mbit/s

95th percentile per-packet one-way delay: 52.134 ms

Loss rate: 1.01%

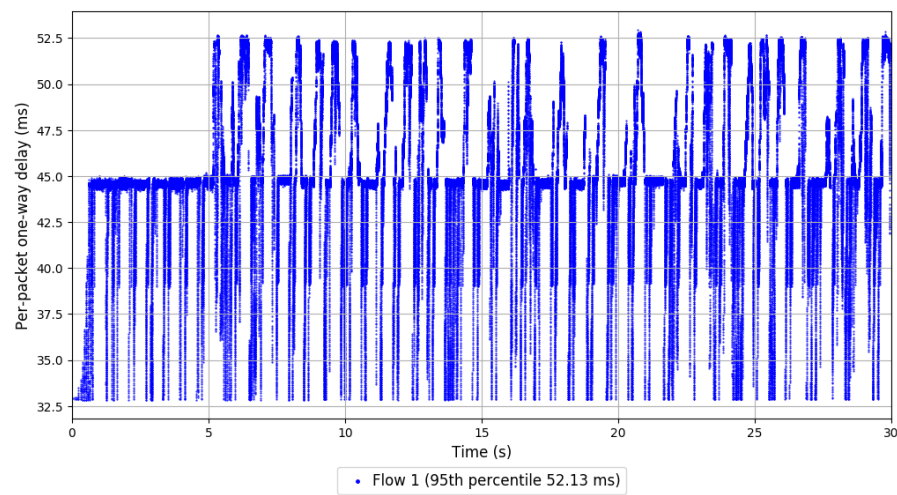
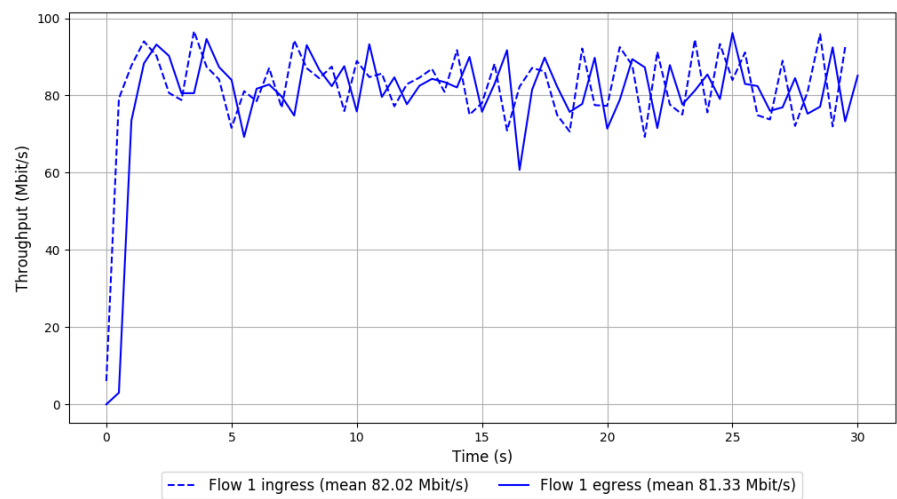
-- Flow 1:

Average throughput: 81.33 Mbit/s

95th percentile per-packet one-way delay: 52.134 ms

Loss rate: 1.01%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-06-30 09:57:08

End at: 2018-06-30 09:57:38

Local clock offset: 0.263 ms

Remote clock offset: 5.926 ms

Below is generated by plot.py at 2018-06-30 10:50:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.04 Mbit/s

95th percentile per-packet one-way delay: 51.011 ms

Loss rate: 0.34%

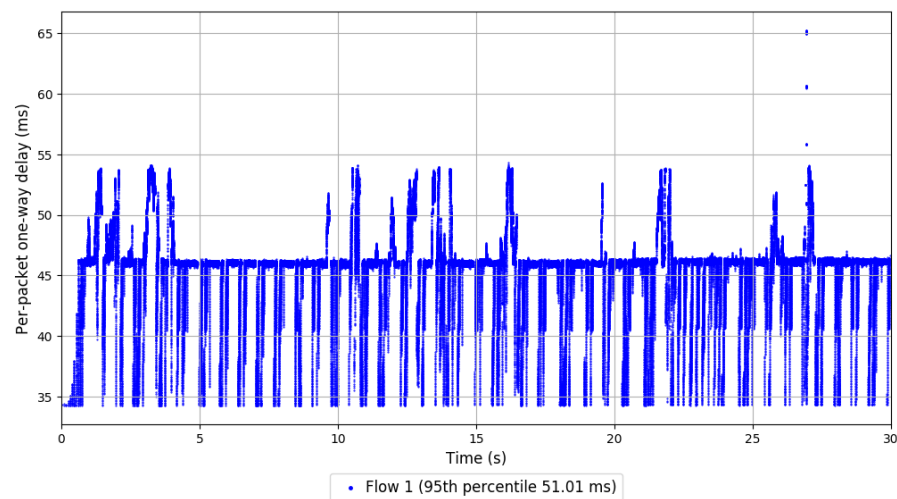
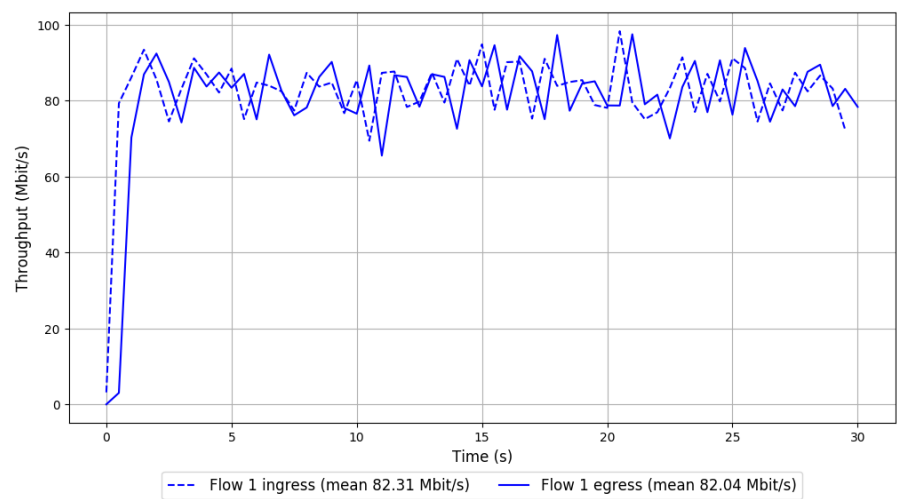
-- Flow 1:

Average throughput: 82.04 Mbit/s

95th percentile per-packet one-way delay: 51.011 ms

Loss rate: 0.34%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-06-30 10:20:03

End at: 2018-06-30 10:20:33

Local clock offset: 0.275 ms

Remote clock offset: 5.69 ms

Below is generated by plot.py at 2018-06-30 10:50:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.46 Mbit/s

95th percentile per-packet one-way delay: 49.162 ms

Loss rate: 0.48%

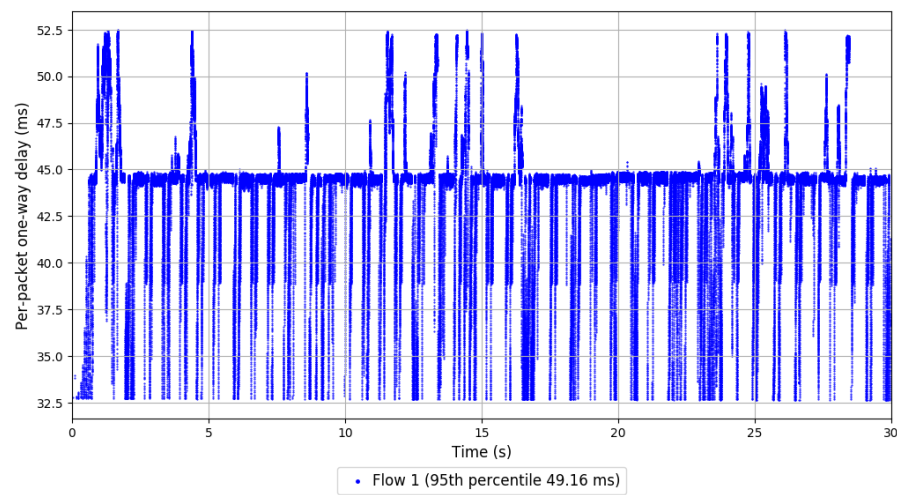
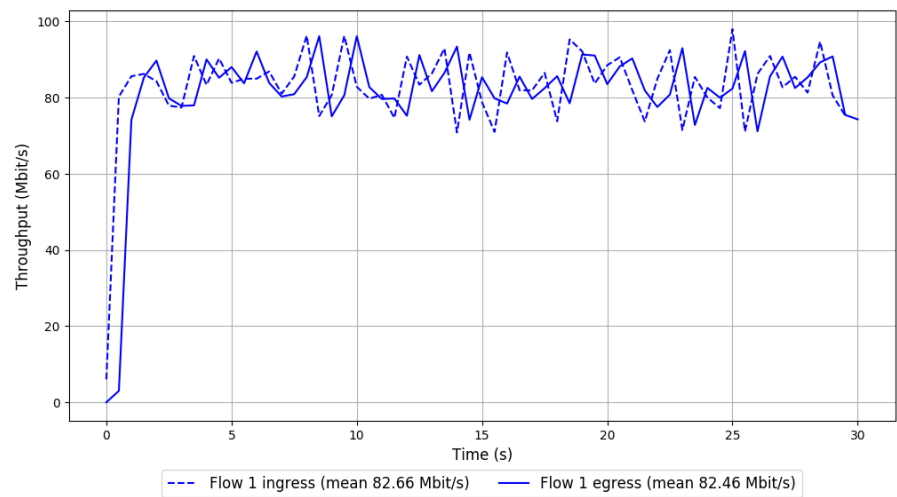
-- Flow 1:

Average throughput: 82.46 Mbit/s

95th percentile per-packet one-way delay: 49.162 ms

Loss rate: 0.48%

Run 10: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2018-06-30 06:37:26

End at: 2018-06-30 06:37:56

Local clock offset: 0.592 ms

Remote clock offset: 4.662 ms

Below is generated by plot.py at 2018-06-30 10:50:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.81 Mbit/s

95th percentile per-packet one-way delay: 45.753 ms

Loss rate: 0.75%

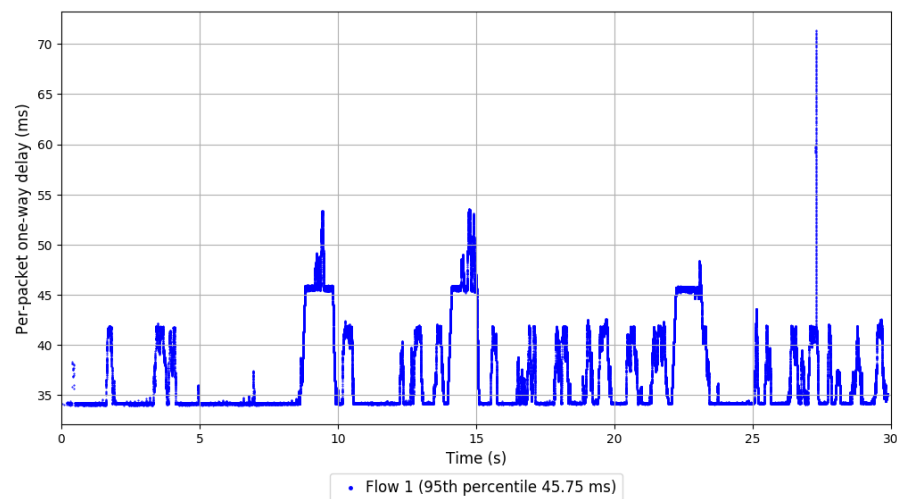
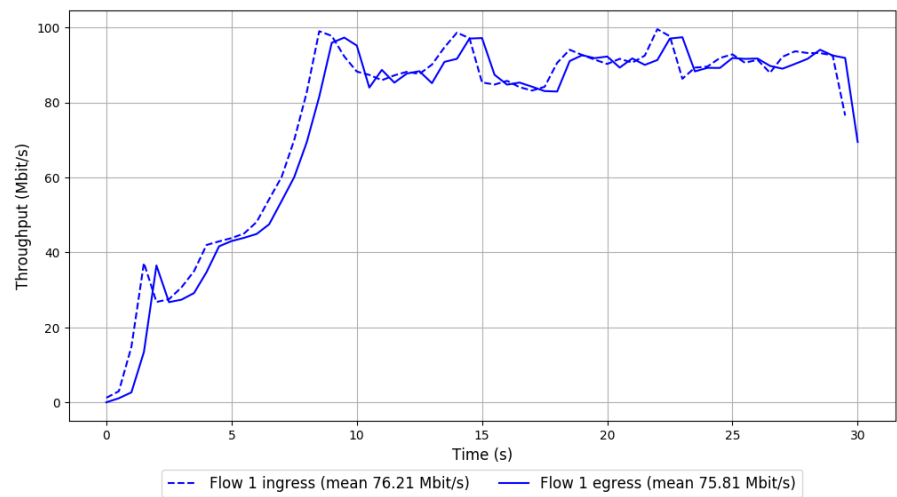
-- Flow 1:

Average throughput: 75.81 Mbit/s

95th percentile per-packet one-way delay: 45.753 ms

Loss rate: 0.75%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2018-06-30 06:59:48

End at: 2018-06-30 07:00:18

Local clock offset: 0.697 ms

Remote clock offset: 4.413 ms

Below is generated by plot.py at 2018-06-30 10:50:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 80.76 Mbit/s

95th percentile per-packet one-way delay: 48.380 ms

Loss rate: 0.65%

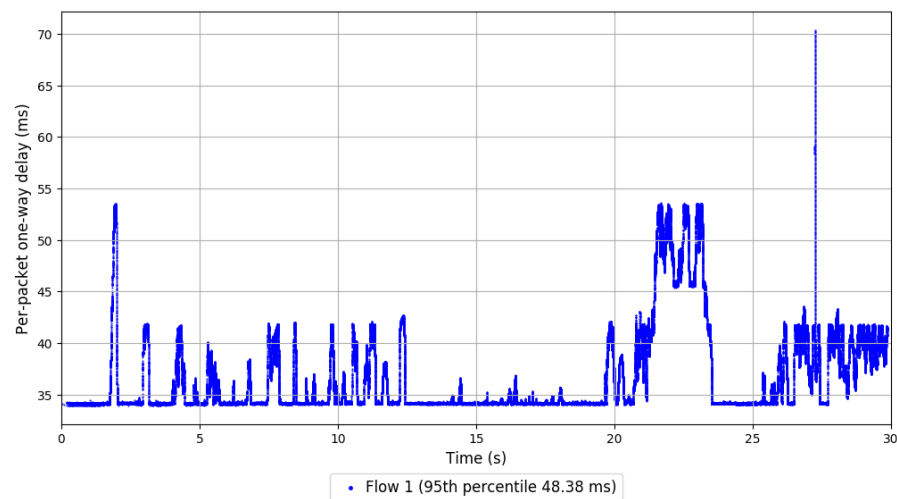
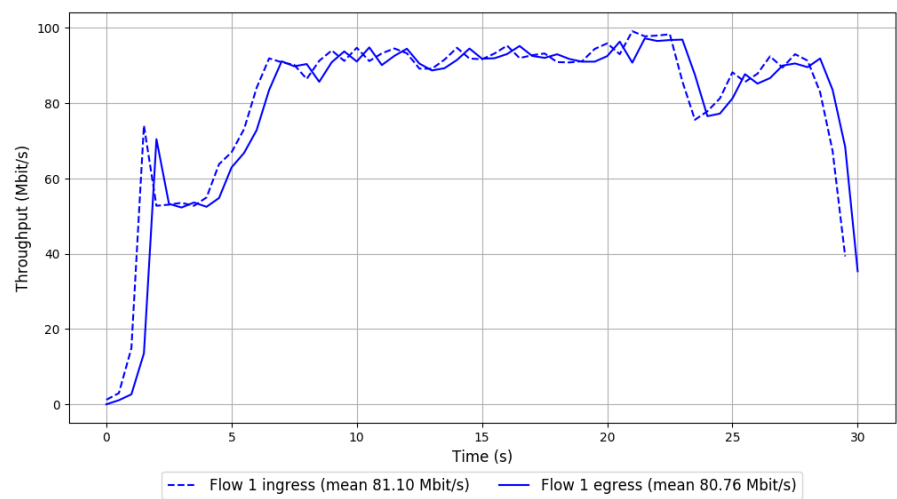
-- Flow 1:

Average throughput: 80.76 Mbit/s

95th percentile per-packet one-way delay: 48.380 ms

Loss rate: 0.65%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-06-30 07:25:32

End at: 2018-06-30 07:26:02

Local clock offset: 1.057 ms

Remote clock offset: 4.695 ms

Below is generated by plot.py at 2018-06-30 10:50:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 31.40 Mbit/s

95th percentile per-packet one-way delay: 41.418 ms

Loss rate: 1.12%

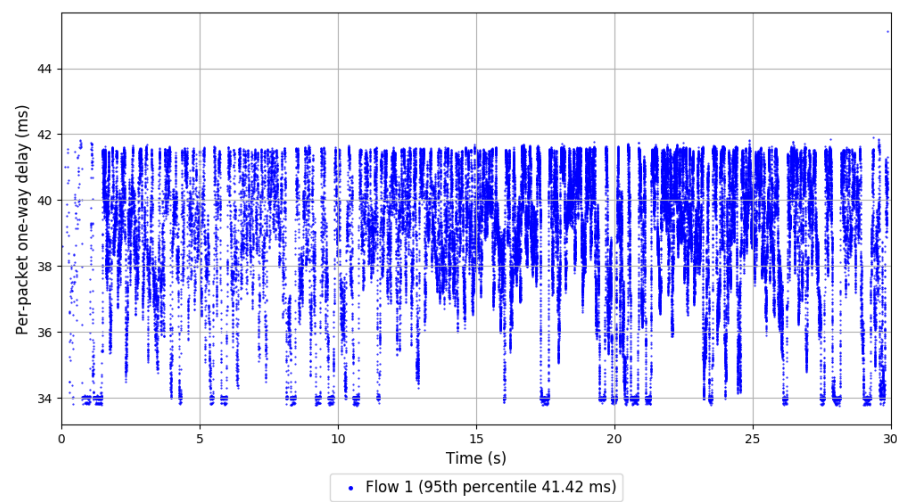
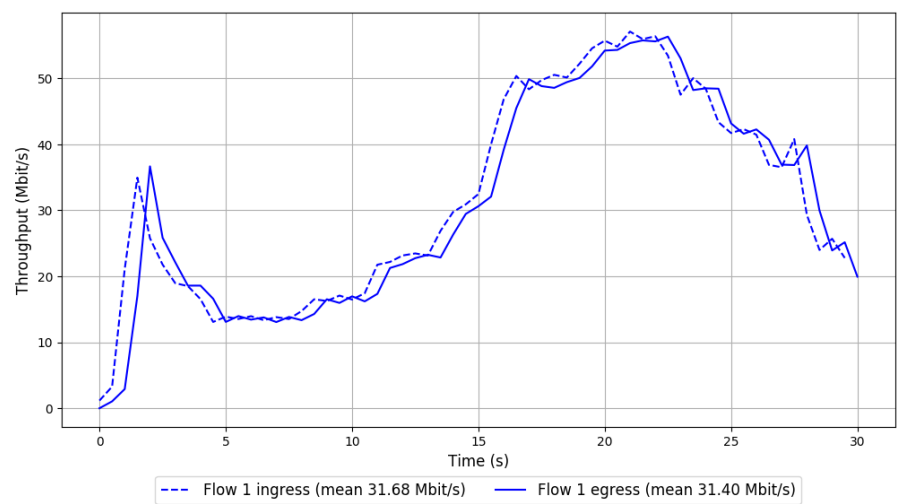
-- Flow 1:

Average throughput: 31.40 Mbit/s

95th percentile per-packet one-way delay: 41.418 ms

Loss rate: 1.12%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2018-06-30 07:51:33

End at: 2018-06-30 07:52:03

Local clock offset: 1.1 ms

Remote clock offset: 4.049 ms

Below is generated by plot.py at 2018-06-30 10:50:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 14.85 Mbit/s

95th percentile per-packet one-way delay: 40.734 ms

Loss rate: 1.39%

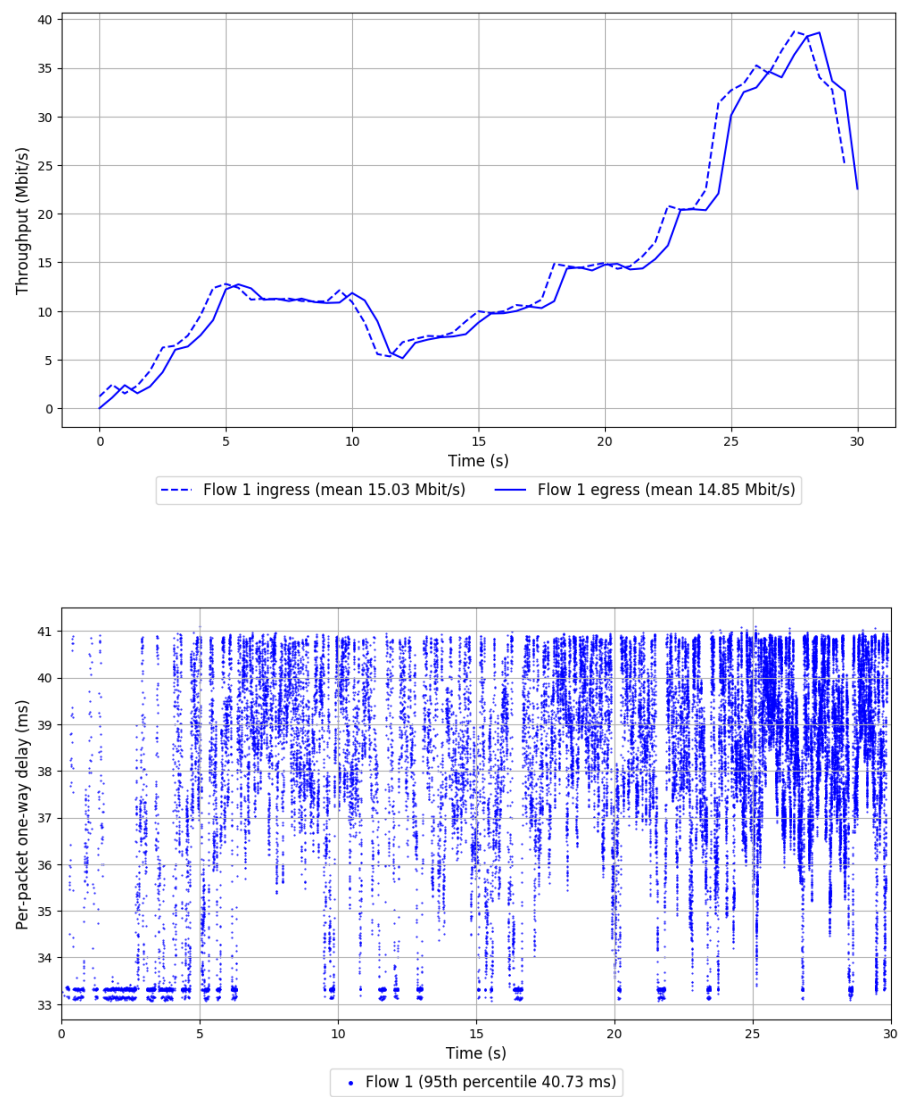
-- Flow 1:

Average throughput: 14.85 Mbit/s

95th percentile per-packet one-way delay: 40.734 ms

Loss rate: 1.39%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2018-06-30 08:17:38

End at: 2018-06-30 08:18:08

Local clock offset: 1.025 ms

Remote clock offset: -0.102 ms

Below is generated by plot.py at 2018-06-30 10:50:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 9.10 Mbit/s

95th percentile per-packet one-way delay: 40.751 ms

Loss rate: 1.06%

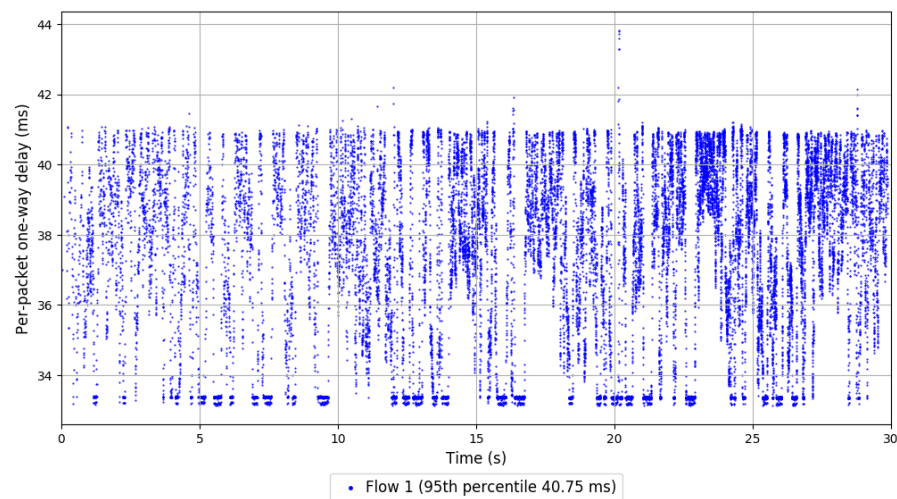
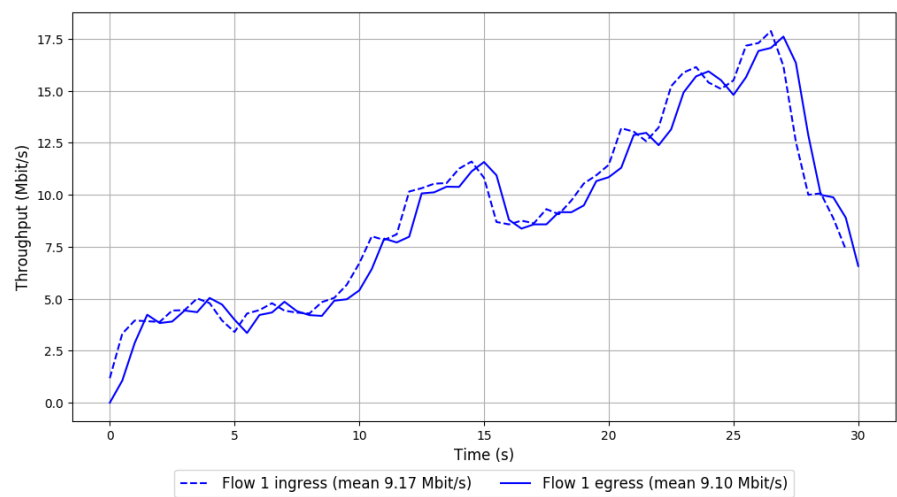
-- Flow 1:

Average throughput: 9.10 Mbit/s

95th percentile per-packet one-way delay: 40.751 ms

Loss rate: 1.06%

Run 5: Report of PCC-Vivace — Data Link



Run 6: Statistics of PCC-Vivace

Start at: 2018-06-30 08:43:05

End at: 2018-06-30 08:43:35

Local clock offset: 0.73 ms

Remote clock offset: 0.673 ms

Below is generated by plot.py at 2018-06-30 10:50:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 18.67 Mbit/s

95th percentile per-packet one-way delay: 40.197 ms

Loss rate: 1.08%

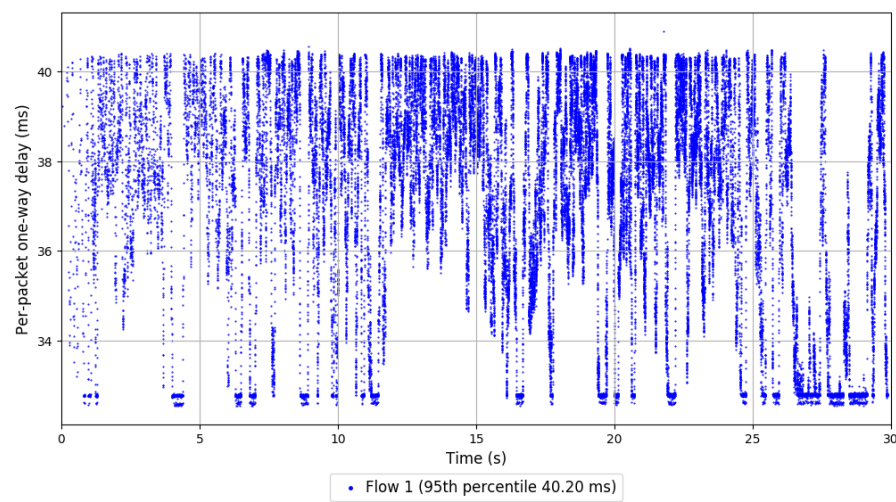
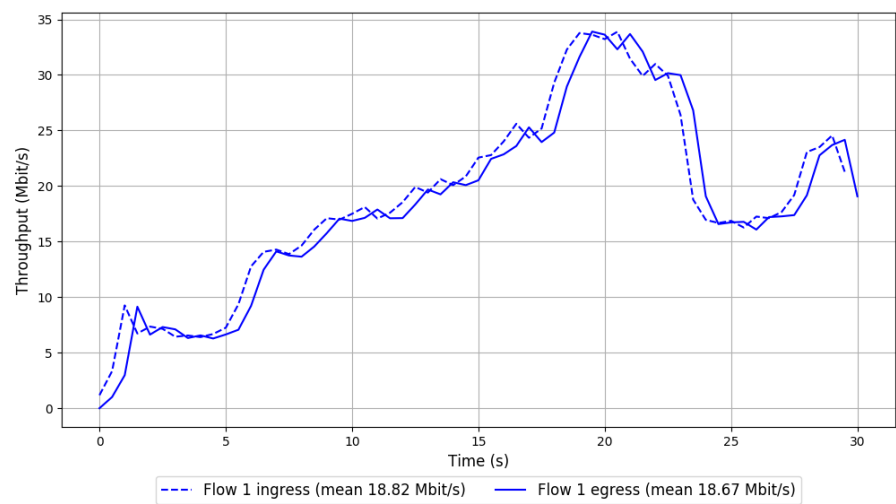
-- Flow 1:

Average throughput: 18.67 Mbit/s

95th percentile per-packet one-way delay: 40.197 ms

Loss rate: 1.08%

Run 6: Report of PCC-Vivace — Data Link



Run 7: Statistics of PCC-Vivace

Start at: 2018-06-30 09:08:04

End at: 2018-06-30 09:08:34

Local clock offset: 0.297 ms

Remote clock offset: 1.57 ms

Below is generated by plot.py at 2018-06-30 10:50:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.55 Mbit/s

95th percentile per-packet one-way delay: 40.139 ms

Loss rate: 1.10%

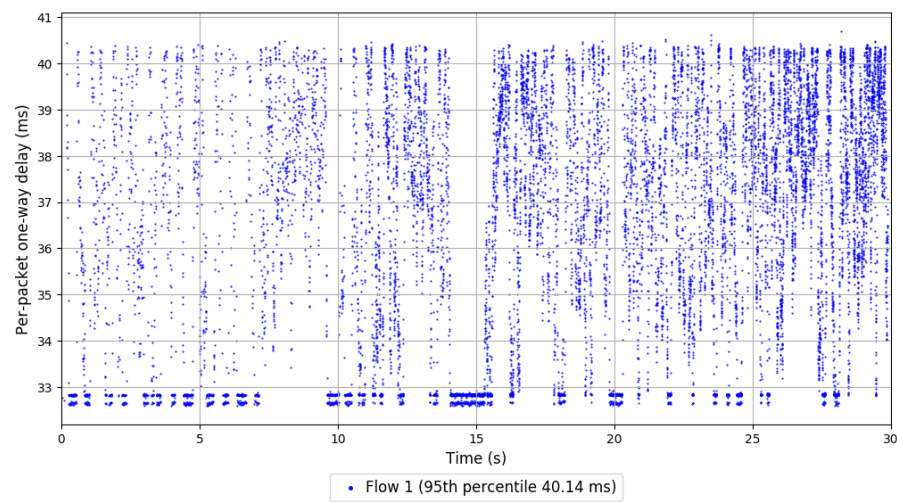
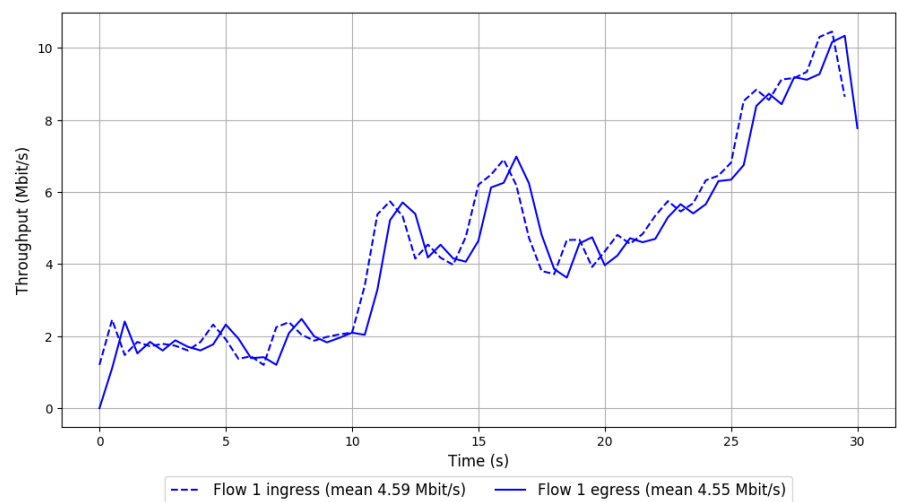
-- Flow 1:

Average throughput: 4.55 Mbit/s

95th percentile per-packet one-way delay: 40.139 ms

Loss rate: 1.10%

Run 7: Report of PCC-Vivace — Data Link



Run 8: Statistics of PCC-Vivace

Start at: 2018-06-30 09:32:38

End at: 2018-06-30 09:33:08

Local clock offset: 0.303 ms

Remote clock offset: 3.27 ms

Below is generated by plot.py at 2018-06-30 10:51:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 67.73 Mbit/s

95th percentile per-packet one-way delay: 41.770 ms

Loss rate: 0.68%

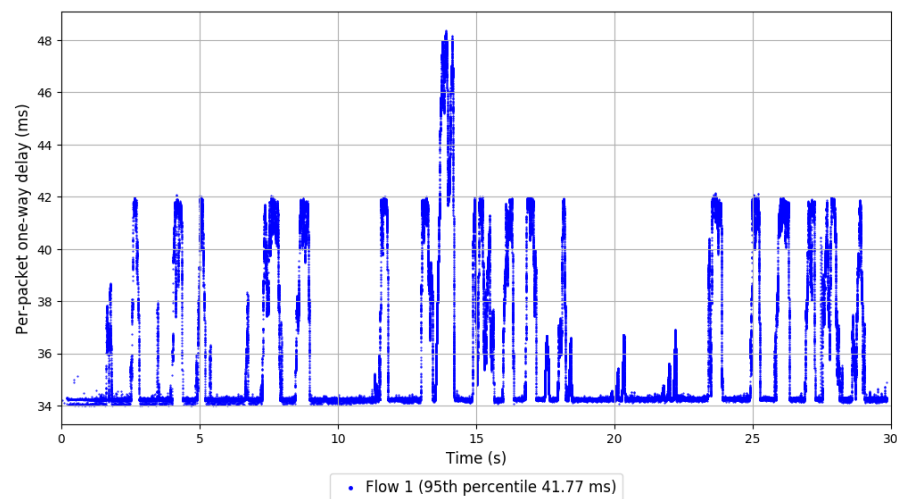
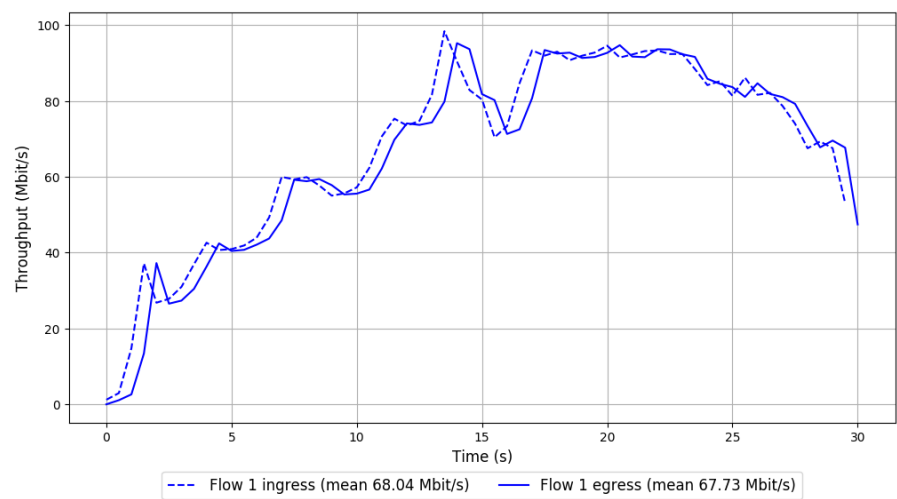
-- Flow 1:

Average throughput: 67.73 Mbit/s

95th percentile per-packet one-way delay: 41.770 ms

Loss rate: 0.68%

Run 8: Report of PCC-Vivace — Data Link



Run 9: Statistics of PCC-Vivace

Start at: 2018-06-30 09:55:46

End at: 2018-06-30 09:56:16

Local clock offset: 0.271 ms

Remote clock offset: 5.741 ms

Below is generated by plot.py at 2018-06-30 10:51:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.05 Mbit/s

95th percentile per-packet one-way delay: 37.710 ms

Loss rate: 0.34%

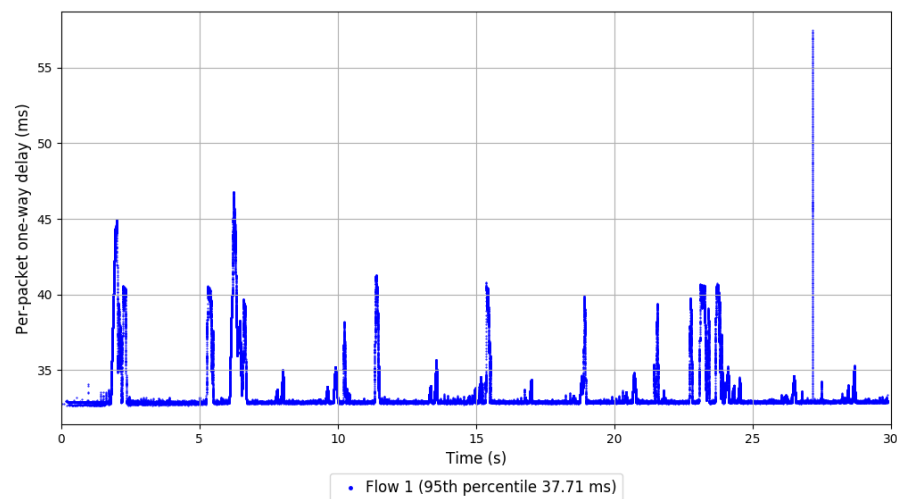
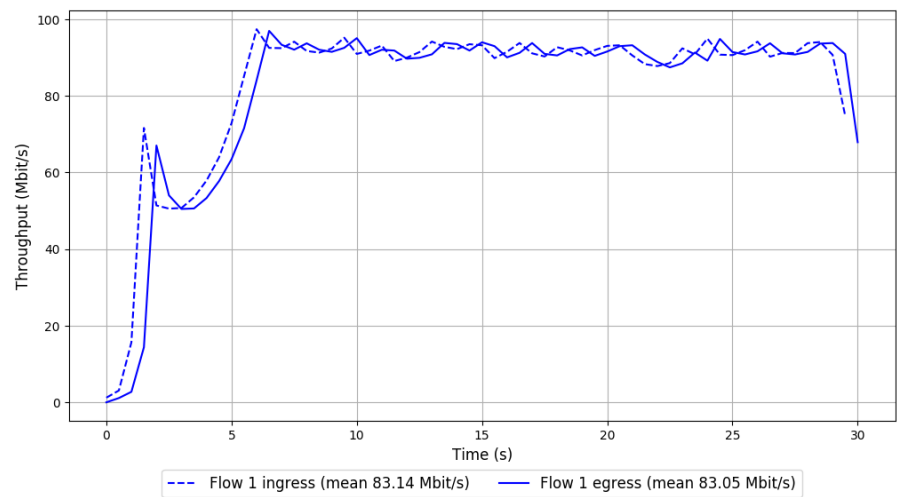
-- Flow 1:

Average throughput: 83.05 Mbit/s

95th percentile per-packet one-way delay: 37.710 ms

Loss rate: 0.34%

Run 9: Report of PCC-Vivace — Data Link



Run 10: Statistics of PCC-Vivace

Start at: 2018-06-30 10:18:41

End at: 2018-06-30 10:19:11

Local clock offset: 0.284 ms

Remote clock offset: 5.912 ms

Below is generated by plot.py at 2018-06-30 10:51:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.27 Mbit/s

95th percentile per-packet one-way delay: 38.344 ms

Loss rate: 0.39%

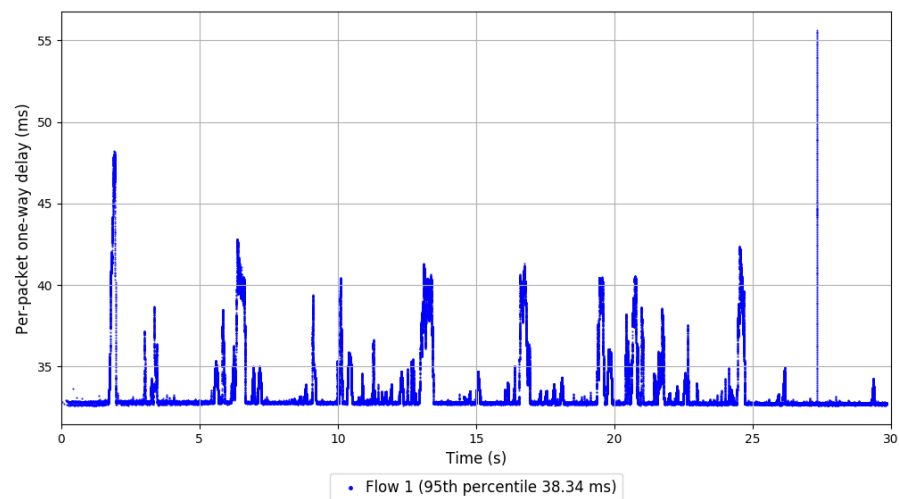
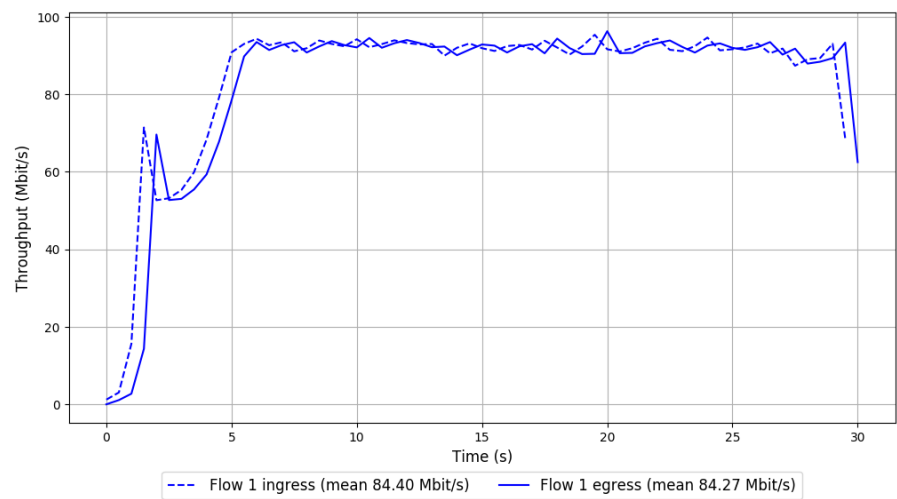
-- Flow 1:

Average throughput: 84.27 Mbit/s

95th percentile per-packet one-way delay: 38.344 ms

Loss rate: 0.39%

Run 10: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

Start at: 2018-06-30 06:46:48

End at: 2018-06-30 06:47:18

Local clock offset: 0.36 ms

Remote clock offset: 5.037 ms

Below is generated by plot.py at 2018-06-30 10:51:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.43 Mbit/s

95th percentile per-packet one-way delay: 34.513 ms

Loss rate: 0.47%

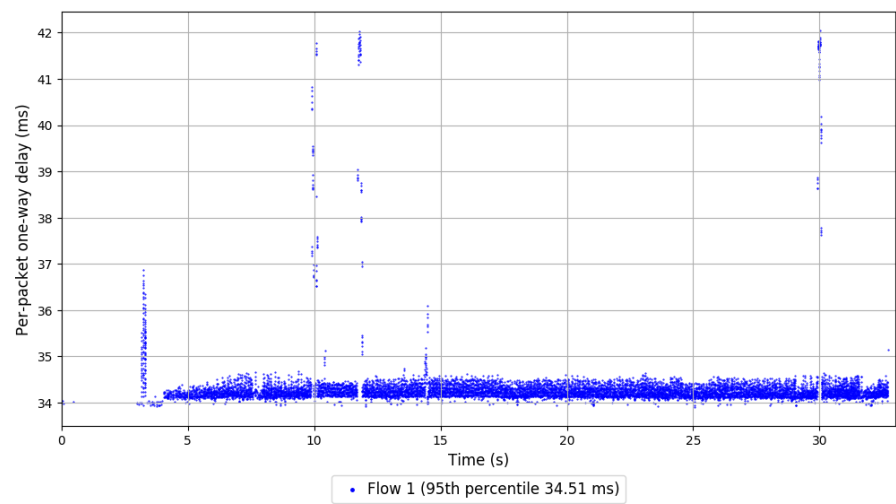
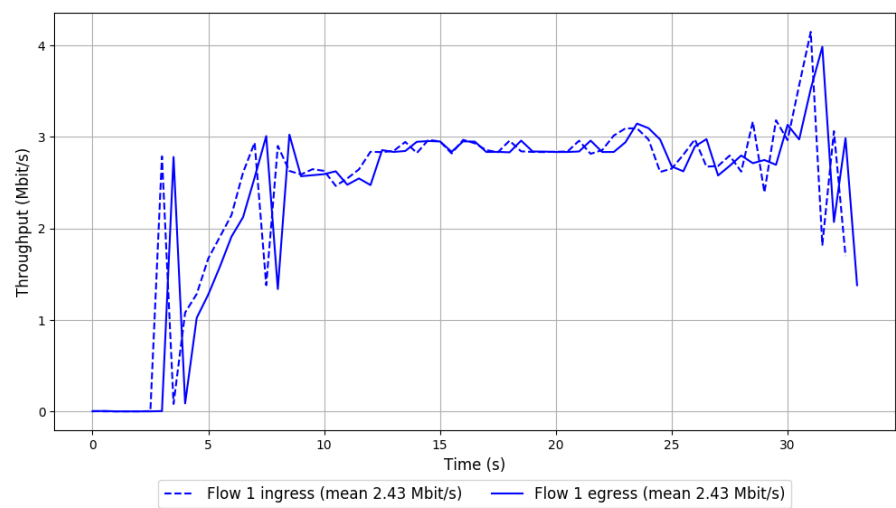
-- Flow 1:

Average throughput: 2.43 Mbit/s

95th percentile per-packet one-way delay: 34.513 ms

Loss rate: 0.47%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-06-30 07:10:56

End at: 2018-06-30 07:11:26

Local clock offset: 0.787 ms

Remote clock offset: 4.342 ms

Below is generated by plot.py at 2018-06-30 10:51:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.91 Mbit/s

95th percentile per-packet one-way delay: 40.340 ms

Loss rate: 1.62%

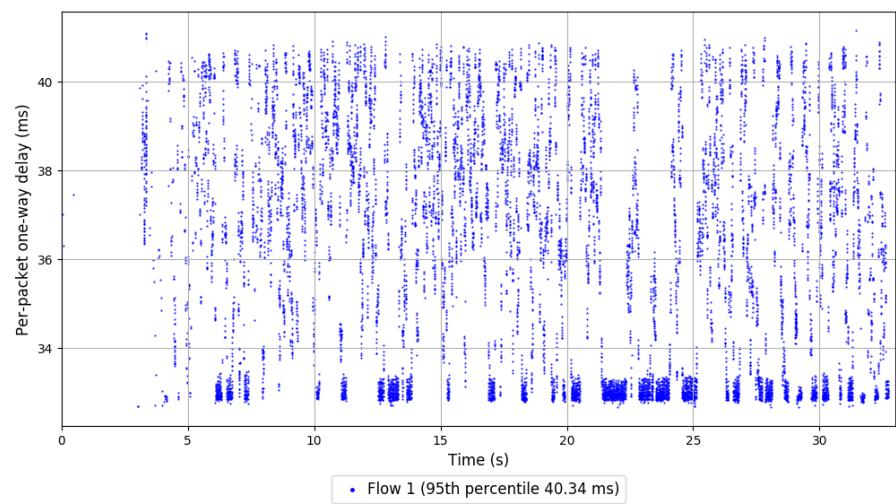
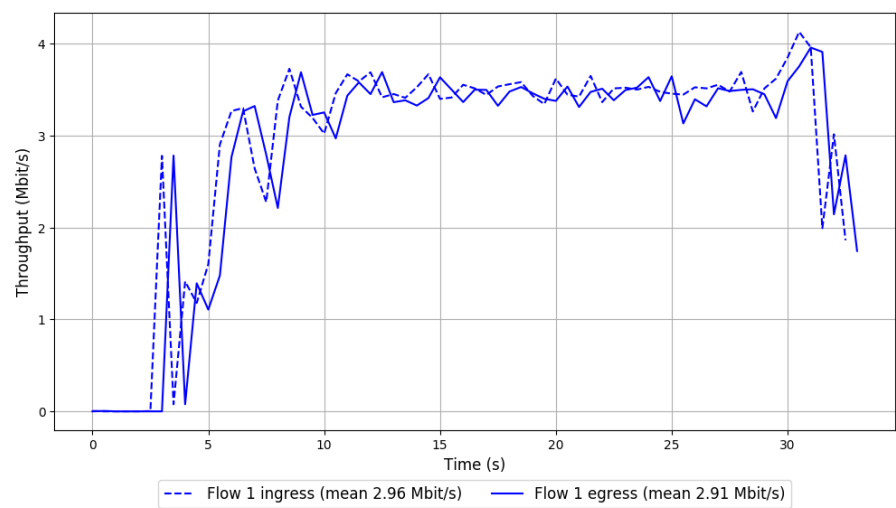
-- Flow 1:

Average throughput: 2.91 Mbit/s

95th percentile per-packet one-way delay: 40.340 ms

Loss rate: 1.62%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-06-30 07:36:09

End at: 2018-06-30 07:36:39

Local clock offset: 1.153 ms

Remote clock offset: 4.532 ms

Below is generated by plot.py at 2018-06-30 10:51:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.90 Mbit/s

95th percentile per-packet one-way delay: 40.168 ms

Loss rate: 1.67%

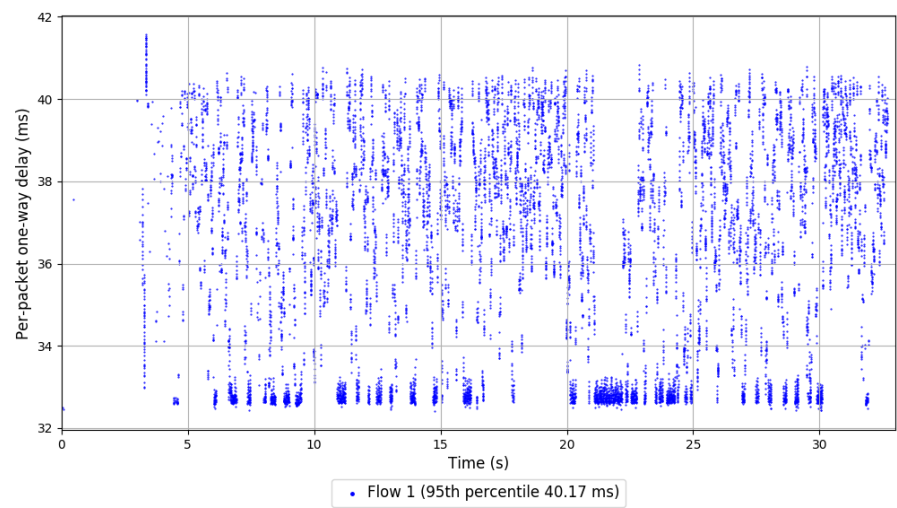
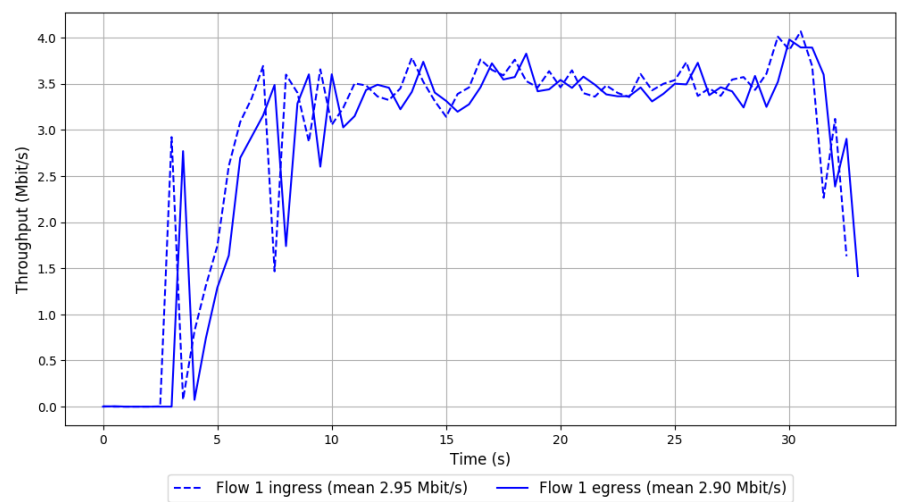
-- Flow 1:

Average throughput: 2.90 Mbit/s

95th percentile per-packet one-way delay: 40.168 ms

Loss rate: 1.67%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-06-30 08:02:27

End at: 2018-06-30 08:02:57

Local clock offset: 1.132 ms

Remote clock offset: 2.688 ms

Below is generated by plot.py at 2018-06-30 10:51:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.92 Mbit/s

95th percentile per-packet one-way delay: 40.218 ms

Loss rate: 1.79%

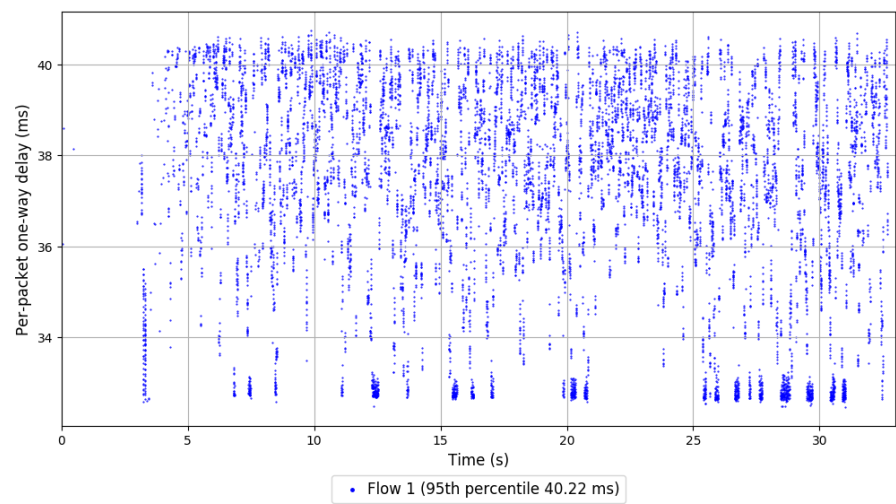
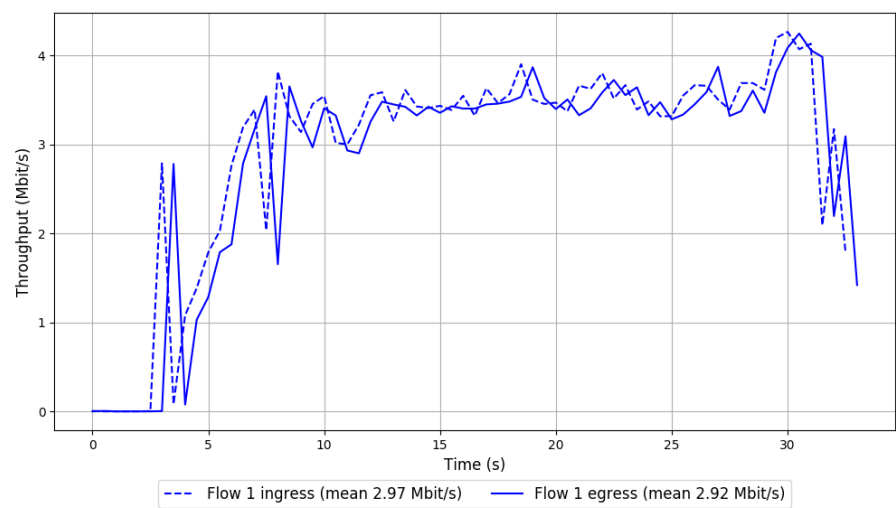
-- Flow 1:

Average throughput: 2.92 Mbit/s

95th percentile per-packet one-way delay: 40.218 ms

Loss rate: 1.79%

Run 4: Report of WebRTC media — Data Link

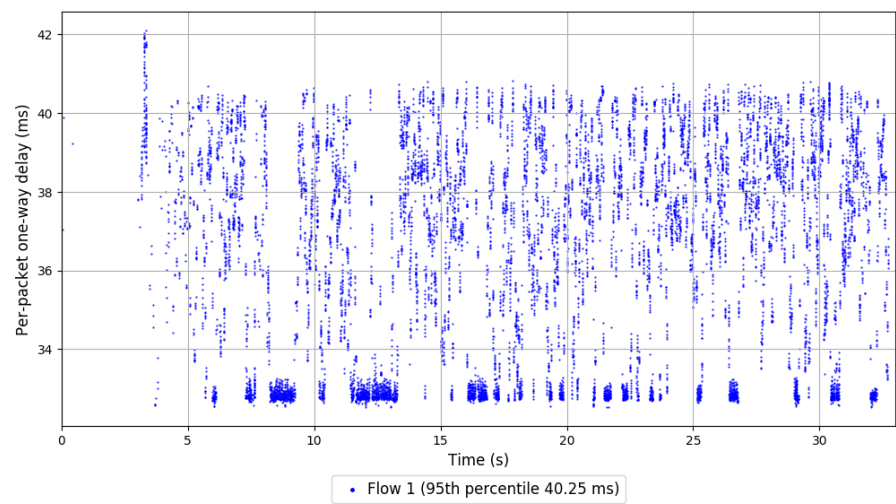
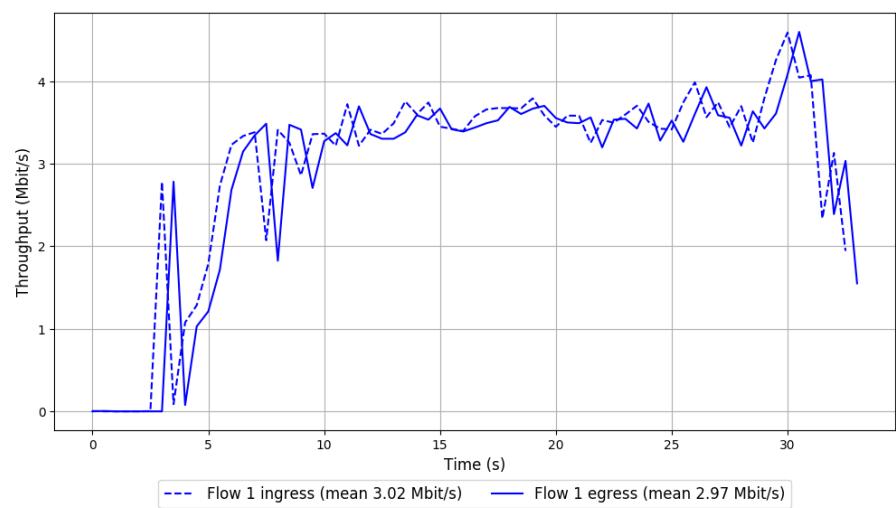


Run 5: Statistics of WebRTC media

Start at: 2018-06-30 08:28:16
End at: 2018-06-30 08:28:46
Local clock offset: 0.77 ms
Remote clock offset: -0.268 ms

Below is generated by plot.py at 2018-06-30 10:51:12
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.97 Mbit/s
95th percentile per-packet one-way delay: 40.250 ms
Loss rate: 1.63%
-- Flow 1:
Average throughput: 2.97 Mbit/s
95th percentile per-packet one-way delay: 40.250 ms
Loss rate: 1.63%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-06-30 08:53:23

End at: 2018-06-30 08:53:53

Local clock offset: 0.501 ms

Remote clock offset: 2.298 ms

Below is generated by plot.py at 2018-06-30 10:51:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.95 Mbit/s

95th percentile per-packet one-way delay: 39.300 ms

Loss rate: 1.40%

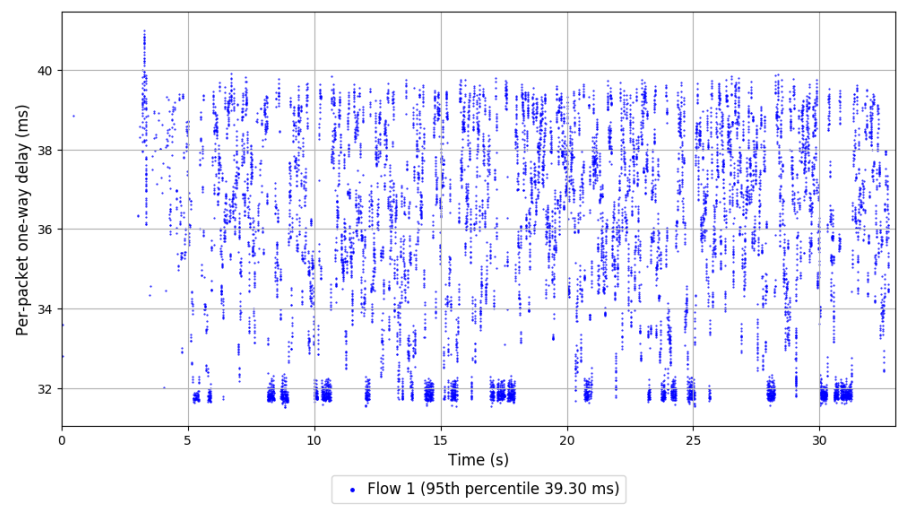
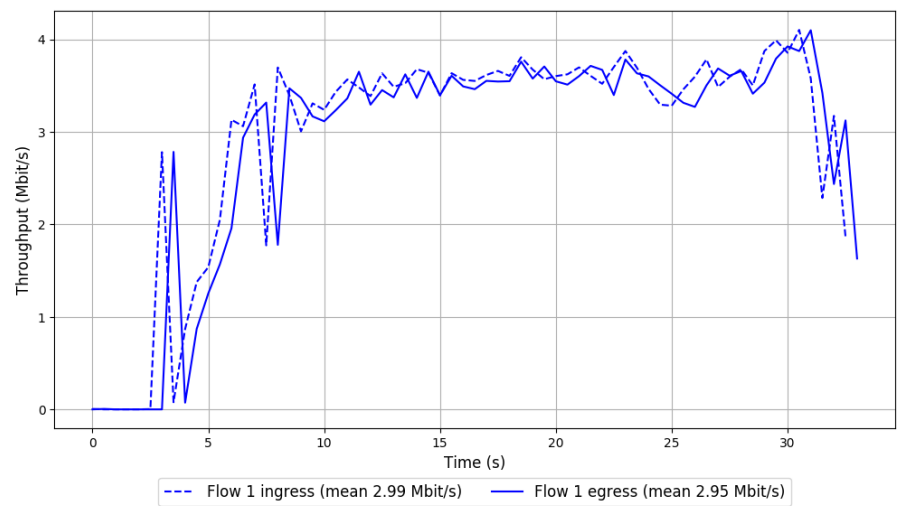
-- Flow 1:

Average throughput: 2.95 Mbit/s

95th percentile per-packet one-way delay: 39.300 ms

Loss rate: 1.40%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-06-30 09:19:16

End at: 2018-06-30 09:19:46

Local clock offset: 0.256 ms

Remote clock offset: 2.095 ms

Below is generated by plot.py at 2018-06-30 10:51:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.90 Mbit/s

95th percentile per-packet one-way delay: 41.722 ms

Loss rate: 1.79%

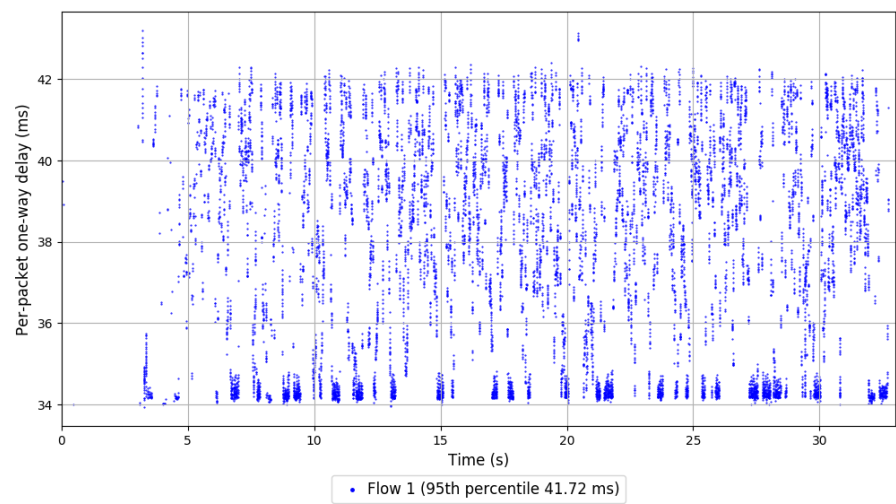
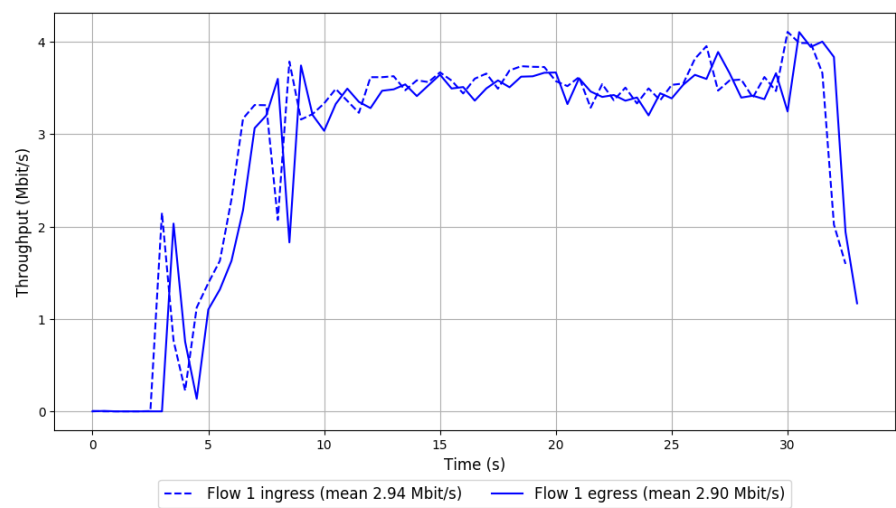
-- Flow 1:

Average throughput: 2.90 Mbit/s

95th percentile per-packet one-way delay: 41.722 ms

Loss rate: 1.79%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-06-30 09:42:31

End at: 2018-06-30 09:43:01

Local clock offset: 0.174 ms

Remote clock offset: 4.281 ms

Below is generated by plot.py at 2018-06-30 10:51:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.79 Mbit/s

95th percentile per-packet one-way delay: 34.254 ms

Loss rate: 0.38%

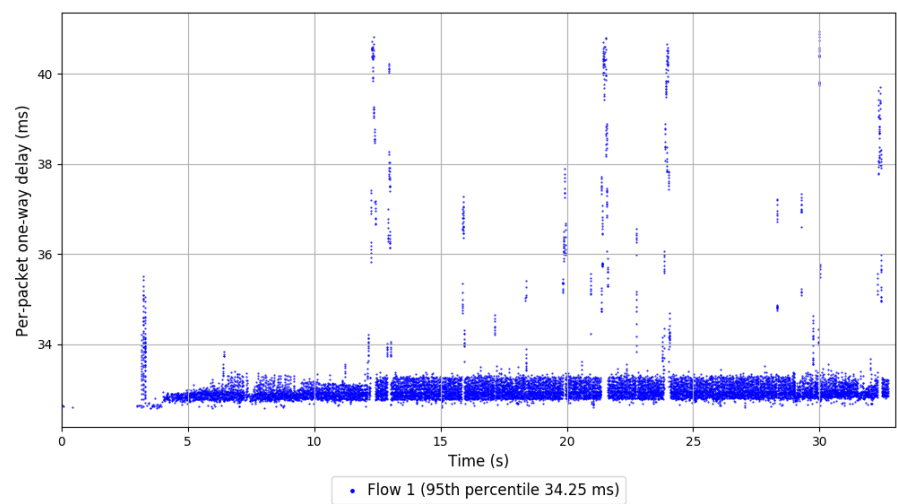
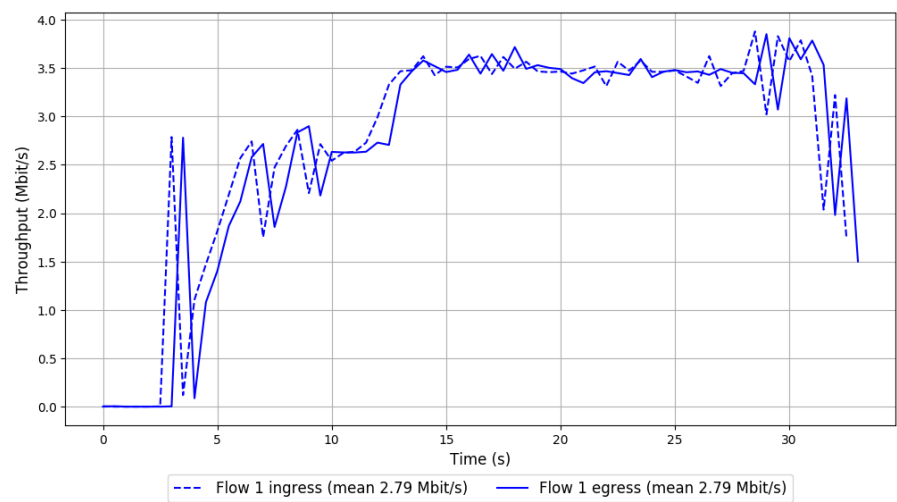
-- Flow 1:

Average throughput: 2.79 Mbit/s

95th percentile per-packet one-way delay: 34.254 ms

Loss rate: 0.38%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-06-30 10:05:13

End at: 2018-06-30 10:05:43

Local clock offset: 0.259 ms

Remote clock offset: 6.787 ms

Below is generated by plot.py at 2018-06-30 10:51:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.33 Mbit/s

95th percentile per-packet one-way delay: 34.706 ms

Loss rate: 0.32%

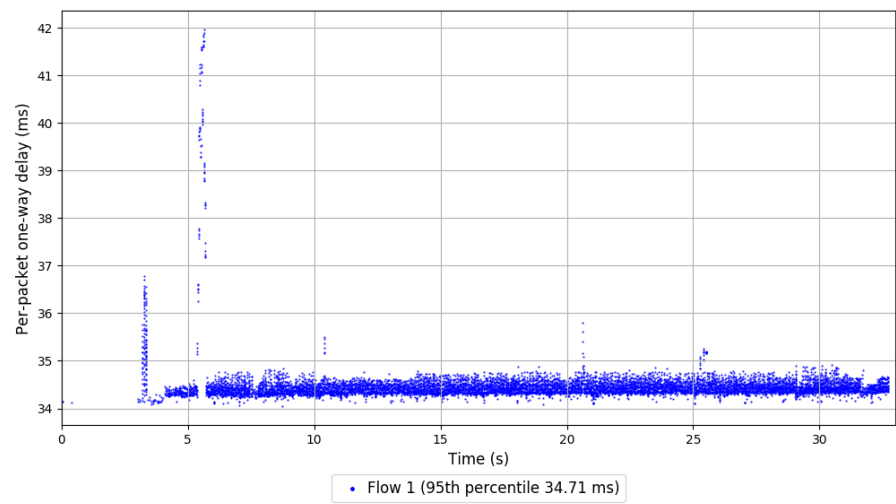
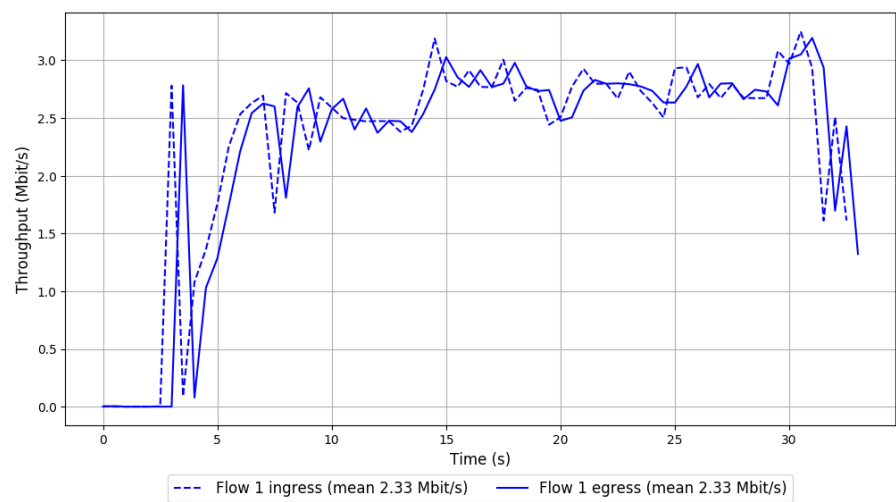
-- Flow 1:

Average throughput: 2.33 Mbit/s

95th percentile per-packet one-way delay: 34.706 ms

Loss rate: 0.32%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-06-30 10:28:17

End at: 2018-06-30 10:28:47

Local clock offset: 0.313 ms

Remote clock offset: 4.833 ms

Below is generated by plot.py at 2018-06-30 10:51:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.33 Mbit/s

95th percentile per-packet one-way delay: 33.070 ms

Loss rate: 0.24%

-- Flow 1:

Average throughput: 2.33 Mbit/s

95th percentile per-packet one-way delay: 33.070 ms

Loss rate: 0.24%

Run 10: Report of WebRTC media — Data Link

