

Pantheon Report

Generated at 2018-07-03 14:03:12 (UTC).

Data path: AWS Brazil 2 Ethernet (*local*) → Colombia Ethernet (*remote*).

Repeated the test of 17 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

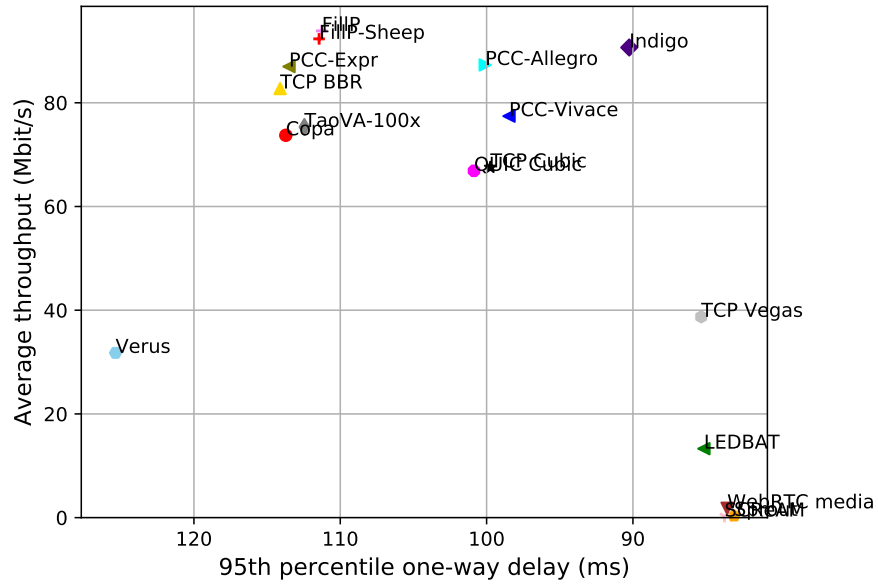
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

NTP offsets were measured against `gps.ntp.br` and have been applied to correct the timestamps in logs.

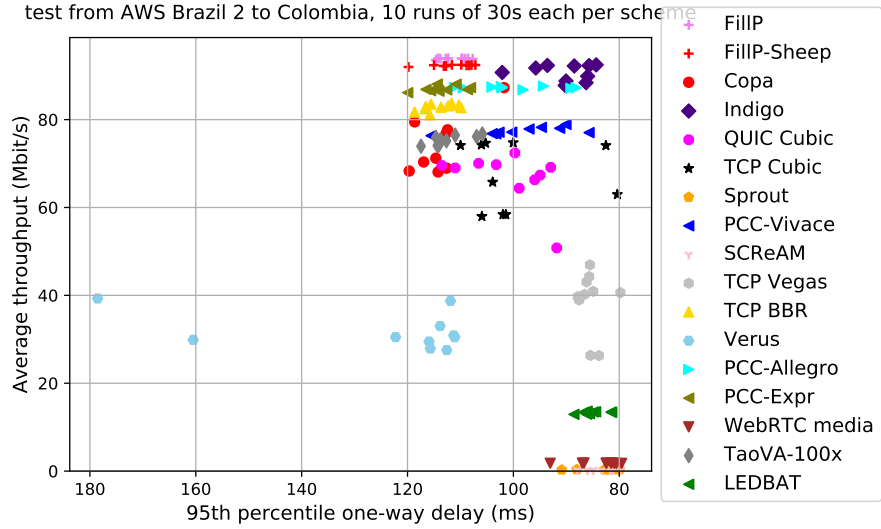
Git summary:

```
branch: master @ 9250dbeec7fb57193cdff1ba8c440b4e16ab30f0
third_party/fillp @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/fillp-sheep @ 37162fe9af85249aeccac061c93e75640ef710b5
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdfe58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ 6f038ed31259d366f9840f65b82cbe8f464b1b39
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quirk @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
```

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



test from AWS Brazil 2 to Colombia, 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	82.75	114.11	4.00
Copa	10	73.73	113.72	3.22
TCP Cubic	10	67.54	99.75	0.43
FillP	10	93.86	111.26	7.45
FillP-Sheep	10	92.32	111.45	3.64
Indigo	10	90.66	90.25	0.97
LEDBAT	10	13.30	85.15	0.00
PCC-Allegro	10	87.29	100.10	1.42
PCC-Expr	10	86.99	113.50	2.44
QUIC Cubic	10	66.88	100.86	0.43
SCReAM	10	0.22	83.74	0.00
Sprout	10	0.35	83.09	0.00
TaoVA-100x	10	75.33	112.45	0.70
TCP Vegas	10	38.73	85.33	0.38
Verus	10	31.77	125.36	25.85
PCC-Vivace	10	77.43	98.47	0.08
WebRTC media	10	1.80	83.56	0.01

Run 1: Statistics of TCP BBR

Start at: 2018-07-03 10:37:07

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

Local clock offset: -7.892 ms

Remote clock offset: 9.317 ms

Below is generated by plot.py at 2018-07-03 13:43:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.13 Mbit/s

95th percentile per-packet one-way delay: 112.345 ms

Loss rate: 3.90%

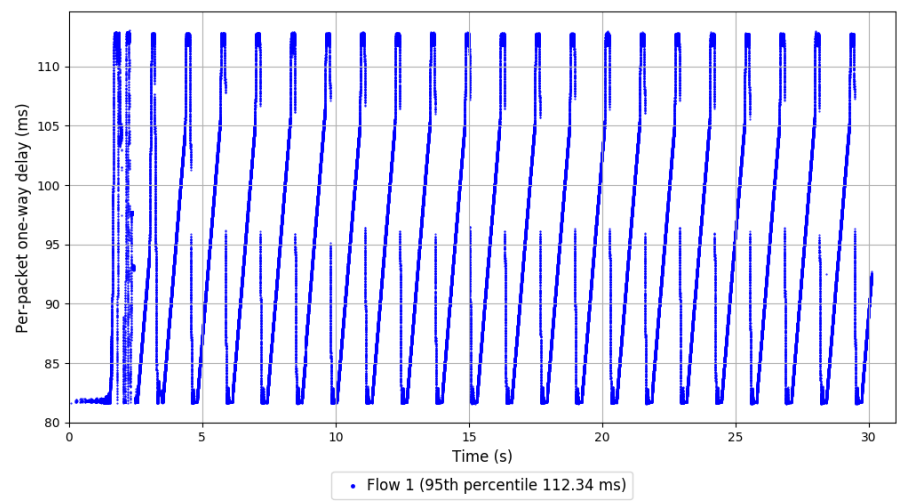
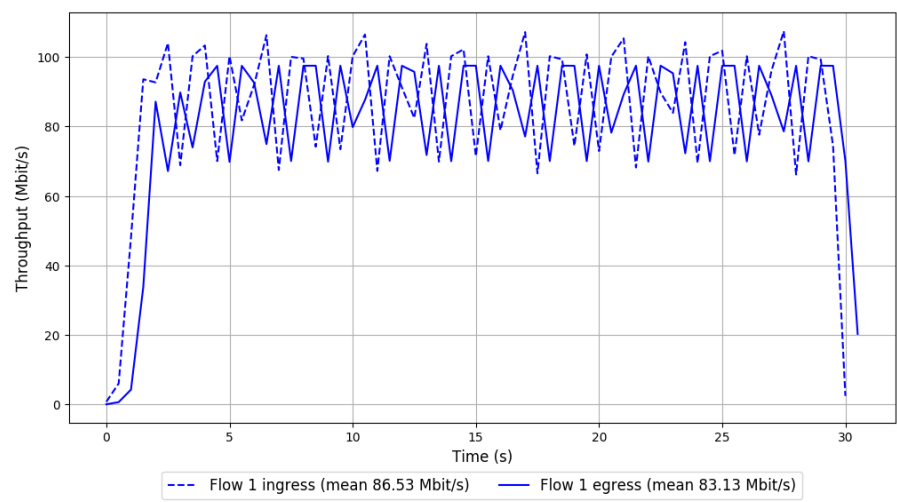
-- Flow 1:

Average throughput: 83.13 Mbit/s

95th percentile per-packet one-way delay: 112.345 ms

Loss rate: 3.90%

Run 1: Report of TCP BBR — Data Link

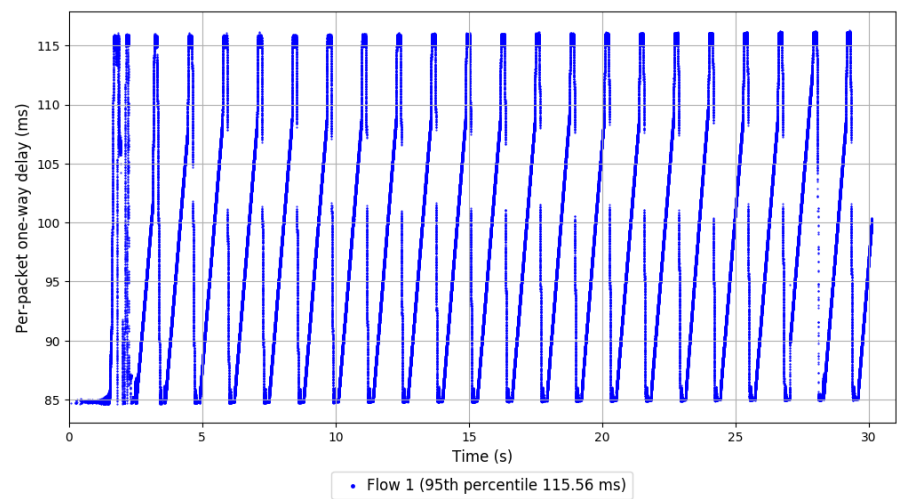
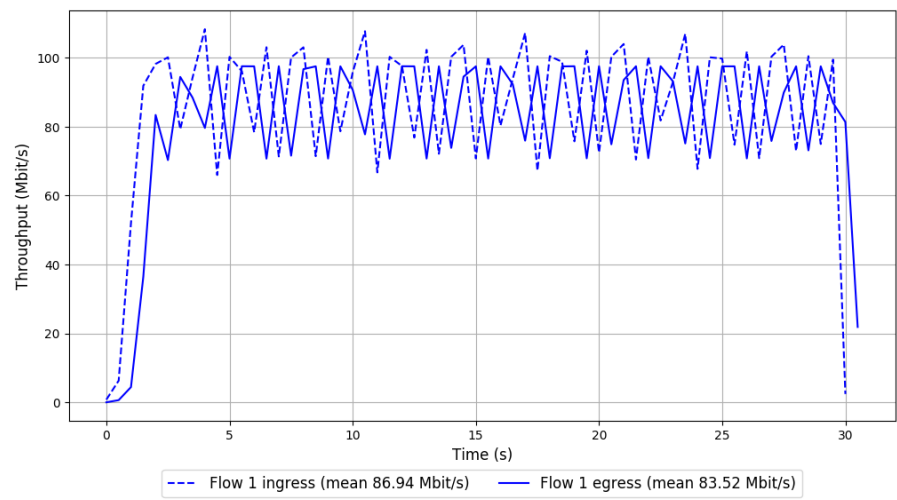


Run 2: Statistics of TCP BBR

Start at: 2018-07-03 10:56:57
End at: 2018-07-03 10:57:27
Local clock offset: -2.371 ms
Remote clock offset: 11.345 ms

Below is generated by plot.py at 2018-07-03 13:43:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 83.52 Mbit/s
95th percentile per-packet one-way delay: 115.562 ms
Loss rate: 3.89%
-- Flow 1:
Average throughput: 83.52 Mbit/s
95th percentile per-packet one-way delay: 115.562 ms
Loss rate: 3.89%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-07-03 11:16:47

End at: 2018-07-03 11:17:17

Local clock offset: -4.465 ms

Remote clock offset: 5.575 ms

Below is generated by plot.py at 2018-07-03 13:43:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.99 Mbit/s

95th percentile per-packet one-way delay: 116.545 ms

Loss rate: 3.79%

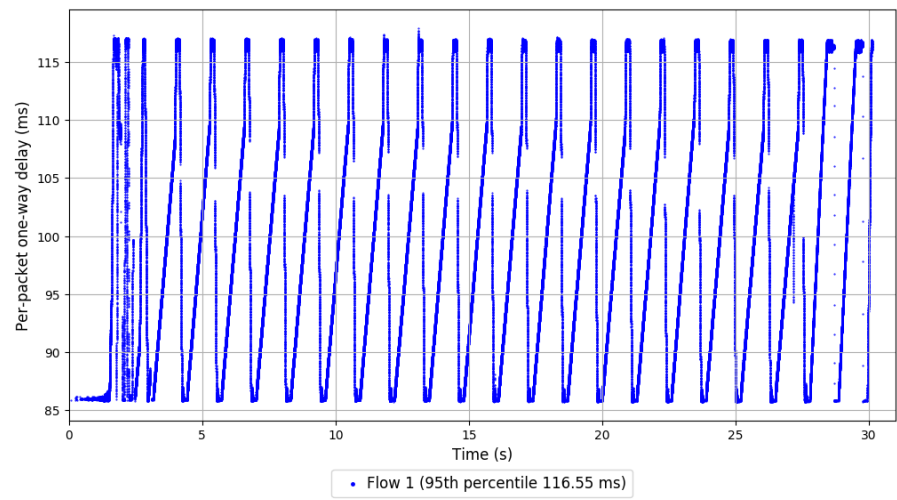
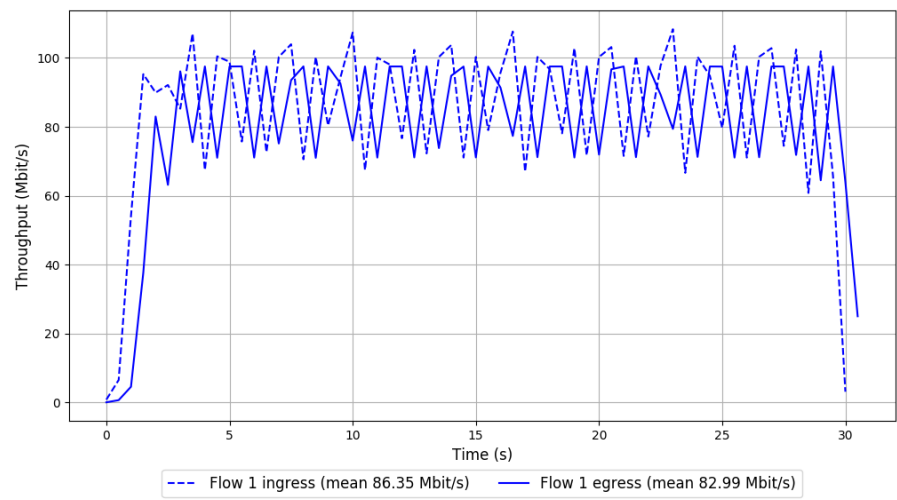
-- Flow 1:

Average throughput: 82.99 Mbit/s

95th percentile per-packet one-way delay: 116.545 ms

Loss rate: 3.79%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-07-03 11:36:39

End at: 2018-07-03 11:37:09

Local clock offset: -8.121 ms

Remote clock offset: 6.311 ms

Below is generated by plot.py at 2018-07-03 13:43:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.49 Mbit/s

95th percentile per-packet one-way delay: 116.641 ms

Loss rate: 3.80%

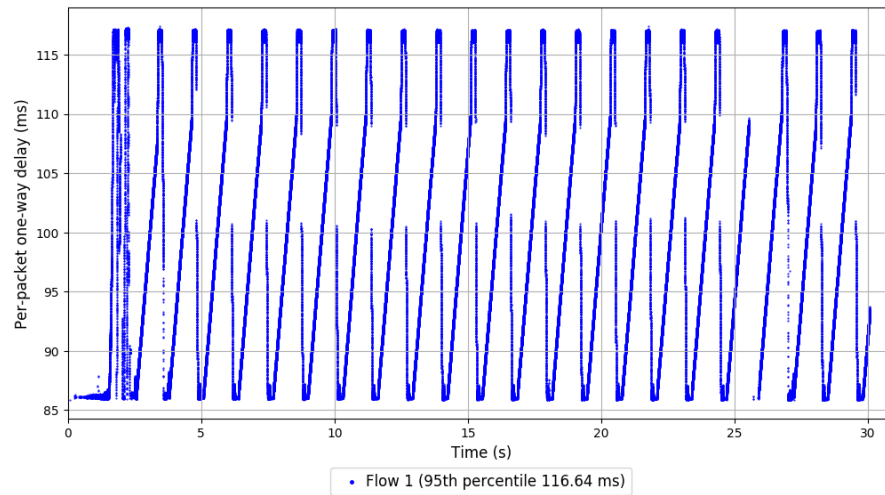
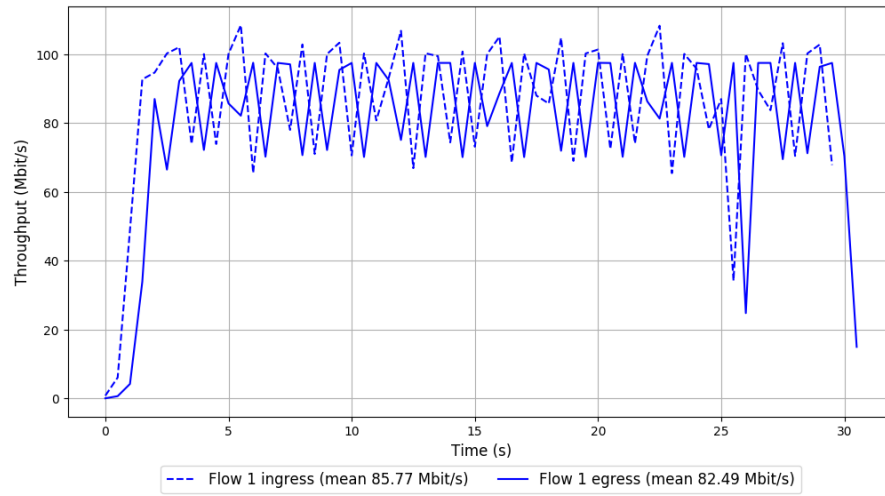
-- Flow 1:

Average throughput: 82.49 Mbit/s

95th percentile per-packet one-way delay: 116.641 ms

Loss rate: 3.80%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-07-03 11:56:33

End at: 2018-07-03 11:57:03

Local clock offset: -2.497 ms

Remote clock offset: 2.407 ms

Below is generated by plot.py at 2018-07-03 13:43:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 81.73 Mbit/s

95th percentile per-packet one-way delay: 118.666 ms

Loss rate: 4.03%

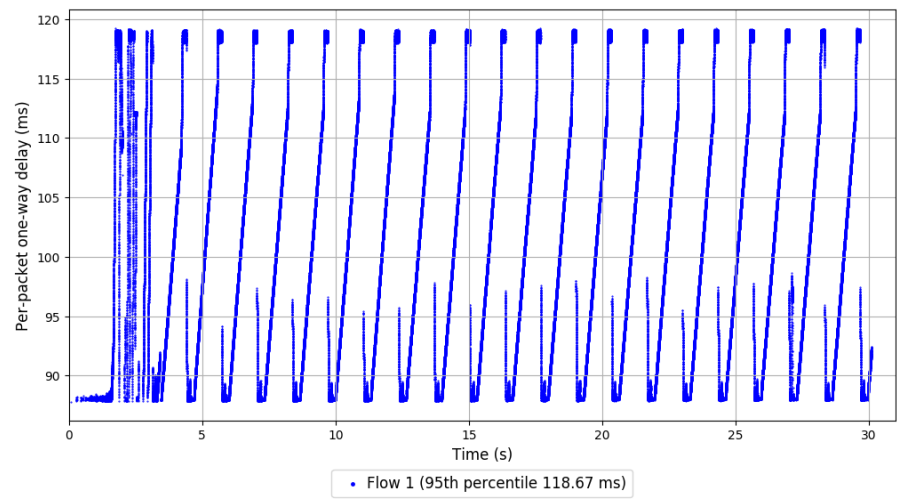
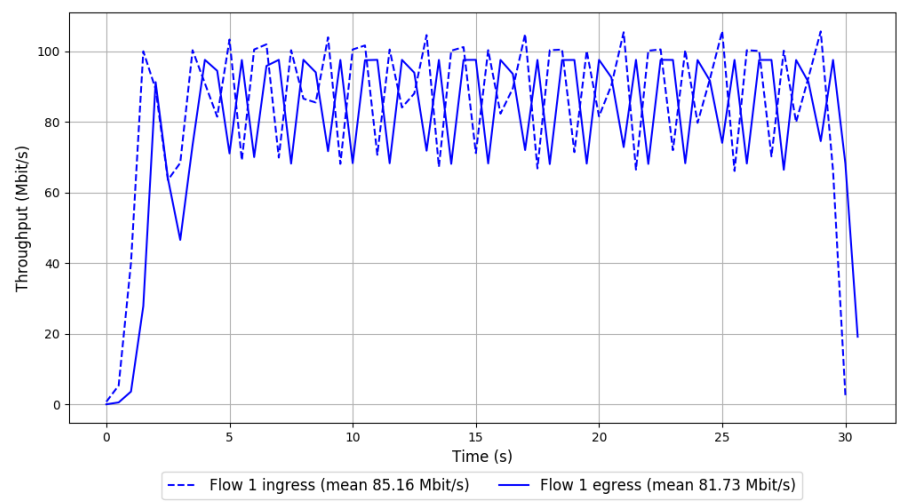
-- Flow 1:

Average throughput: 81.73 Mbit/s

95th percentile per-packet one-way delay: 118.666 ms

Loss rate: 4.03%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-07-03 12:16:29

End at: 2018-07-03 12:16:59

Local clock offset: -1.961 ms

Remote clock offset: 6.42 ms

Below is generated by plot.py at 2018-07-03 13:43:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 81.07 Mbit/s

95th percentile per-packet one-way delay: 115.765 ms

Loss rate: 3.78%

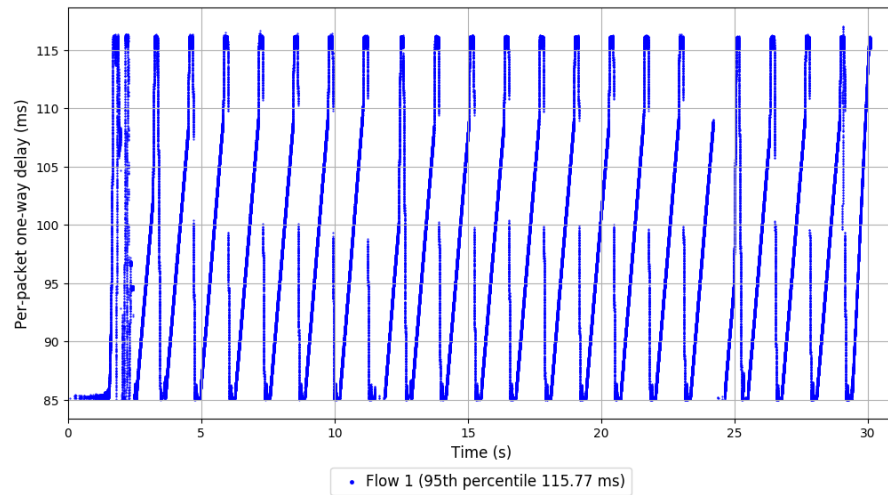
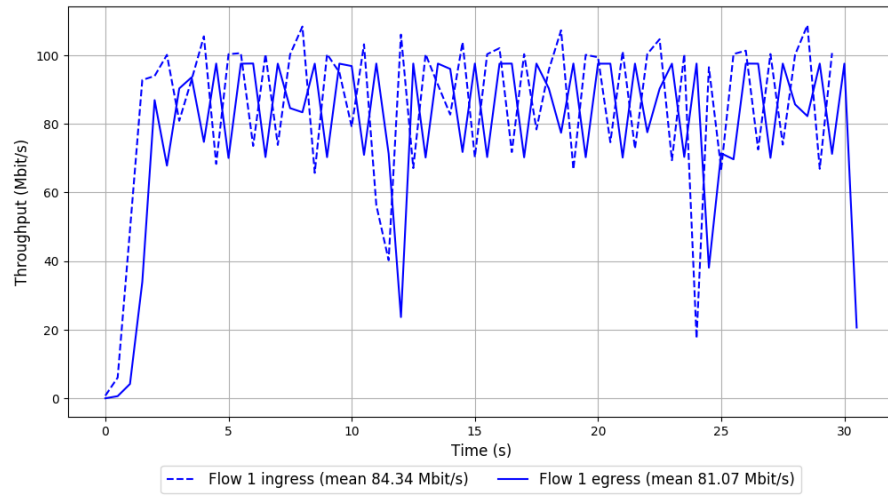
-- Flow 1:

Average throughput: 81.07 Mbit/s

95th percentile per-packet one-way delay: 115.765 ms

Loss rate: 3.78%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-07-03 12:36:30

End at: 2018-07-03 12:37:00

Local clock offset: -2.483 ms

Remote clock offset: 2.725 ms

Below is generated by plot.py at 2018-07-03 13:43:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.72 Mbit/s

95th percentile per-packet one-way delay: 109.899 ms

Loss rate: 4.49%

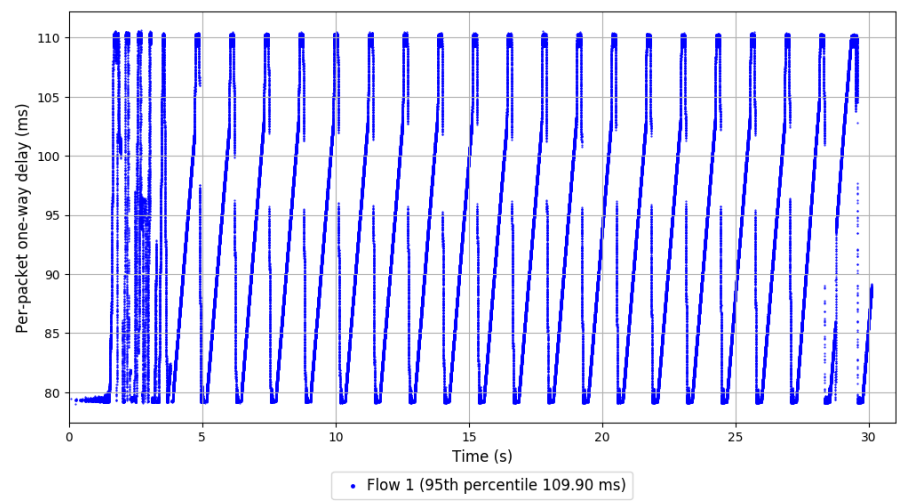
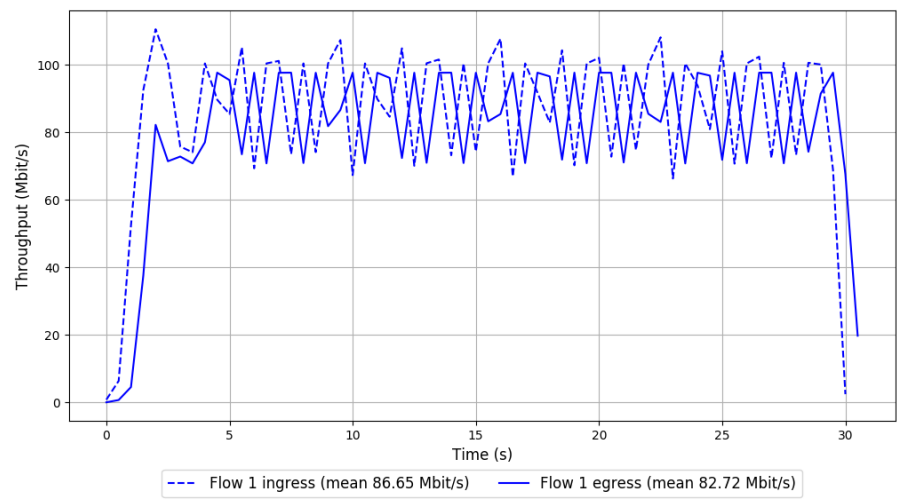
-- Flow 1:

Average throughput: 82.72 Mbit/s

95th percentile per-packet one-way delay: 109.899 ms

Loss rate: 4.49%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-07-03 12:56:22

End at: 2018-07-03 12:56:52

Local clock offset: -1.761 ms

Remote clock offset: 5.072 ms

Below is generated by plot.py at 2018-07-03 13:43:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.83 Mbit/s

95th percentile per-packet one-way delay: 113.681 ms

Loss rate: 3.87%

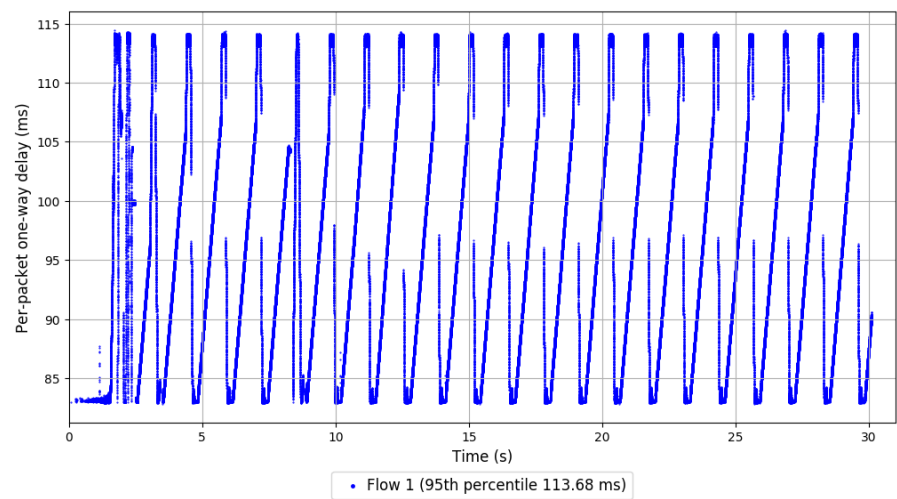
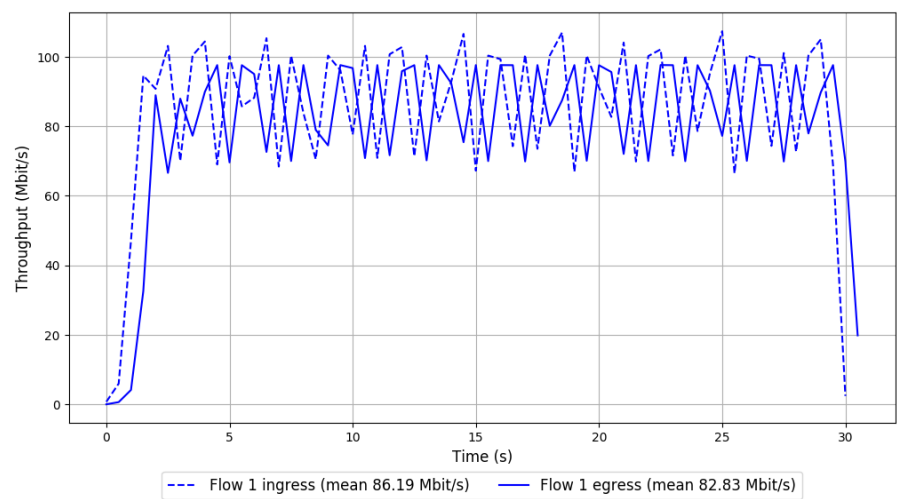
-- Flow 1:

Average throughput: 82.83 Mbit/s

95th percentile per-packet one-way delay: 113.681 ms

Loss rate: 3.87%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-07-03 13:16:15

End at: 2018-07-03 13:16:45

Local clock offset: -1.518 ms

Remote clock offset: 8.847 ms

Below is generated by plot.py at 2018-07-03 13:44:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.31 Mbit/s

95th percentile per-packet one-way delay: 110.299 ms

Loss rate: 4.58%

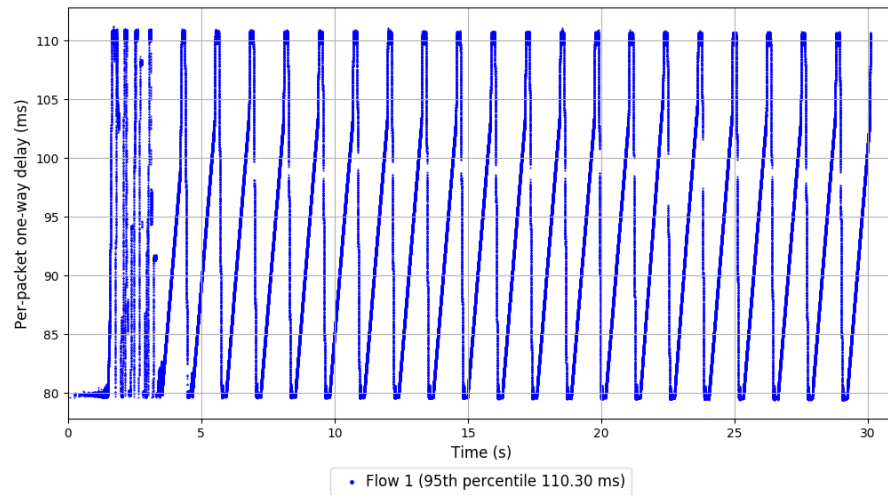
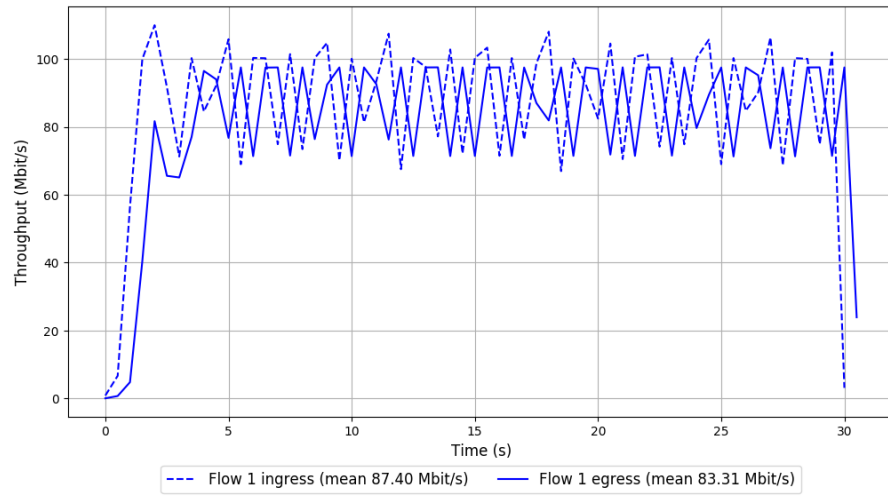
-- Flow 1:

Average throughput: 83.31 Mbit/s

95th percentile per-packet one-way delay: 110.299 ms

Loss rate: 4.58%

Run 9: Report of TCP BBR — Data Link

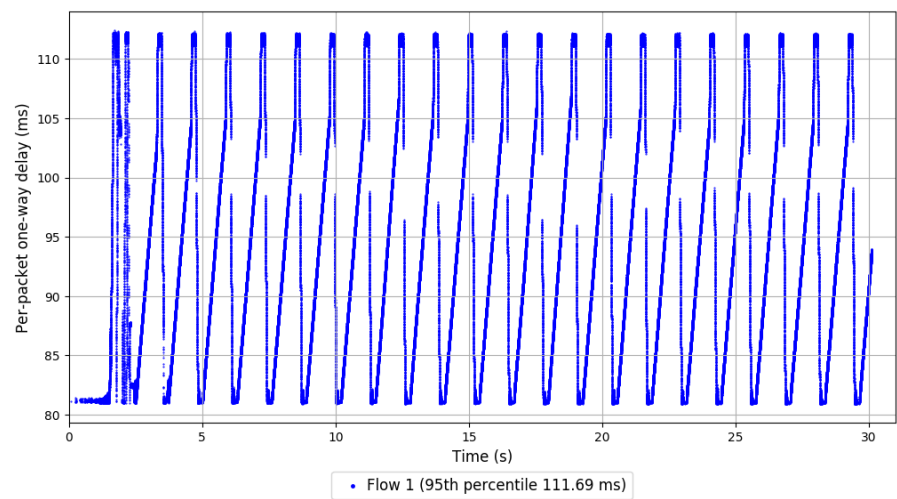
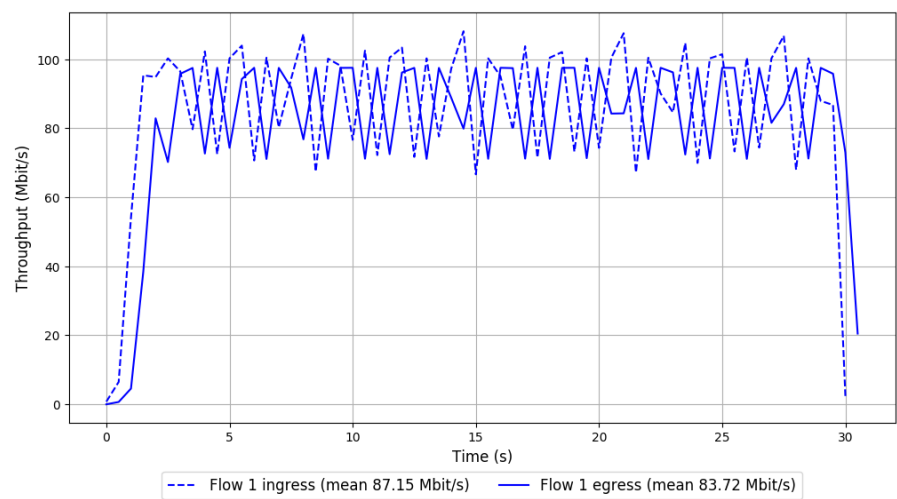


Run 10: Statistics of TCP BBR

Start at: 2018-07-03 13:36:10
End at: 2018-07-03 13:36:40
Local clock offset: -1.349 ms
Remote clock offset: 13.892 ms

Below is generated by plot.py at 2018-07-03 13:44:49
Datalink statistics
-- Total of 1 flow:
Average throughput: 83.72 Mbit/s
95th percentile per-packet one-way delay: 111.694 ms
Loss rate: 3.90%
-- Flow 1:
Average throughput: 83.72 Mbit/s
95th percentile per-packet one-way delay: 111.694 ms
Loss rate: 3.90%

Run 10: Report of TCP BBR — Data Link

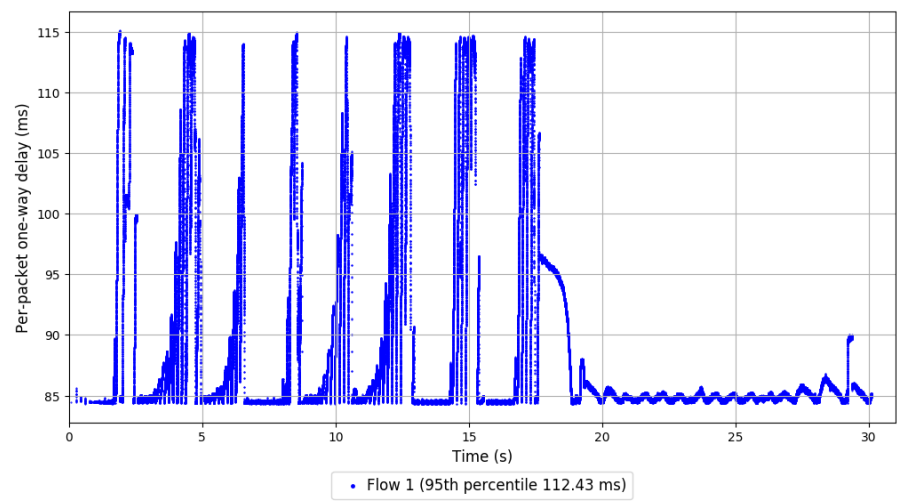
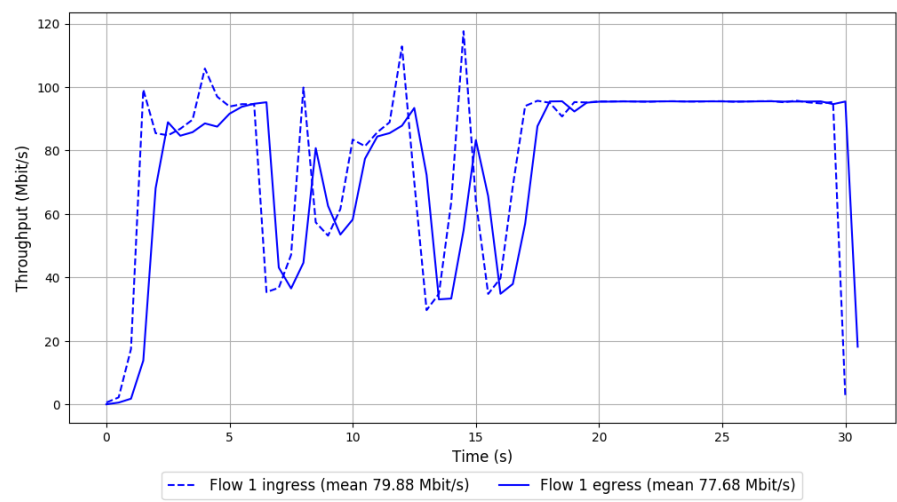


Run 1: Statistics of Copa

Start at: 2018-07-03 10:38:18
End at: 2018-07-03 10:38:48
Local clock offset: -7.876 ms
Remote clock offset: 14.428 ms

Below is generated by plot.py at 2018-07-03 13:45:41
Datalink statistics
-- Total of 1 flow:
Average throughput: 77.68 Mbit/s
95th percentile per-packet one-way delay: 112.433 ms
Loss rate: 2.76%
-- Flow 1:
Average throughput: 77.68 Mbit/s
95th percentile per-packet one-way delay: 112.433 ms
Loss rate: 2.76%

Run 1: Report of Copa — Data Link

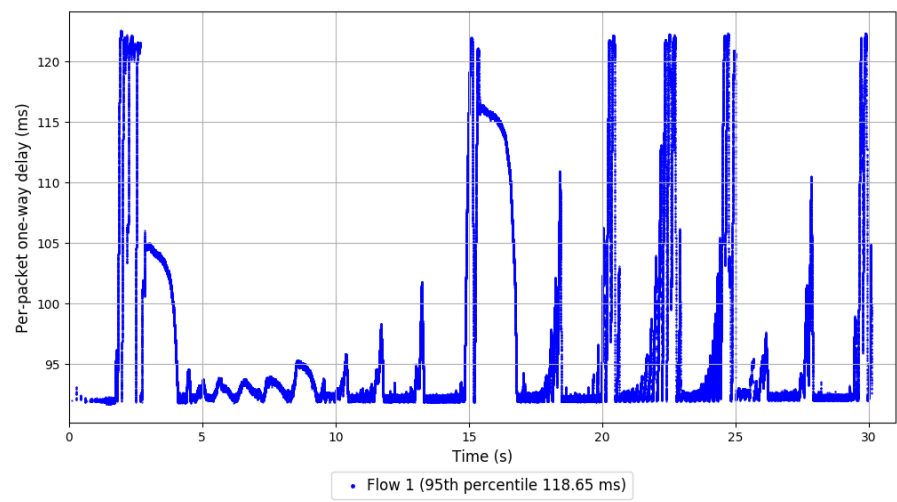
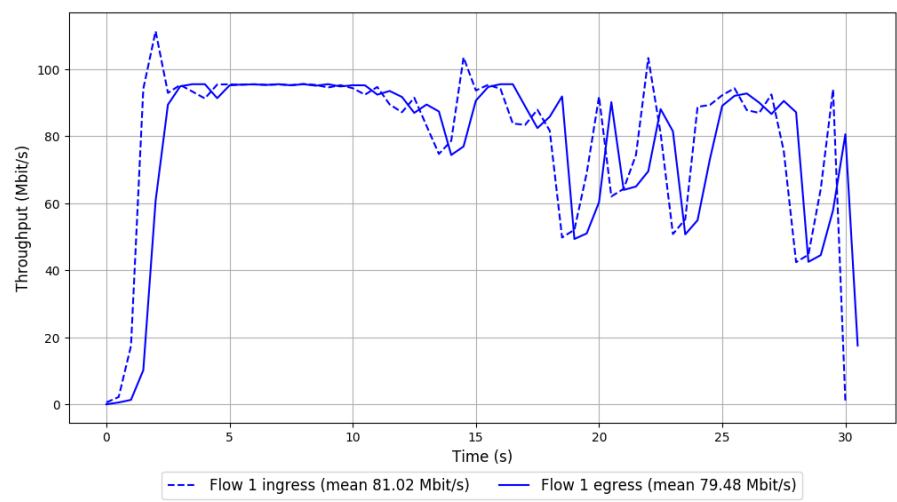


Run 2: Statistics of Copa

Start at: 2018-07-03 10:58:08
End at: 2018-07-03 10:58:38
Local clock offset: -2.171 ms
Remote clock offset: 10.665 ms

Below is generated by plot.py at 2018-07-03 13:45:45
Datalink statistics
-- Total of 1 flow:
Average throughput: 79.48 Mbit/s
95th percentile per-packet one-way delay: 118.652 ms
Loss rate: 1.92%
-- Flow 1:
Average throughput: 79.48 Mbit/s
95th percentile per-packet one-way delay: 118.652 ms
Loss rate: 1.92%

Run 2: Report of Copa — Data Link

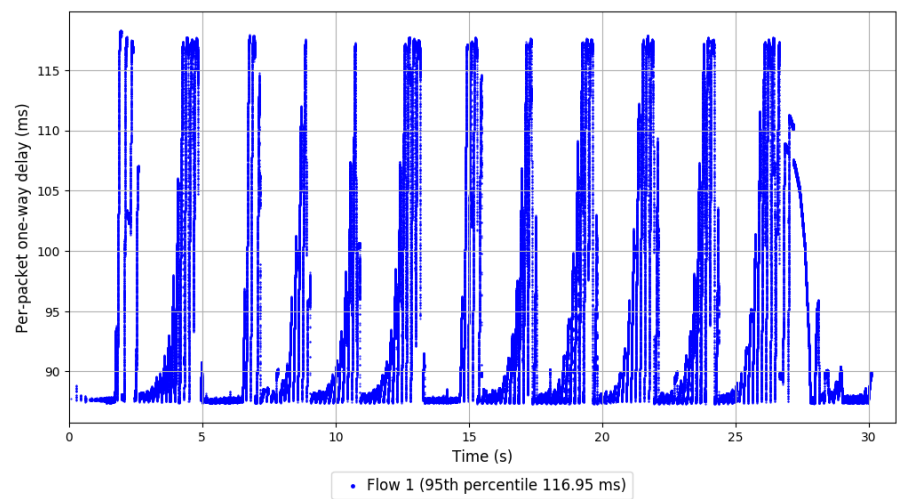
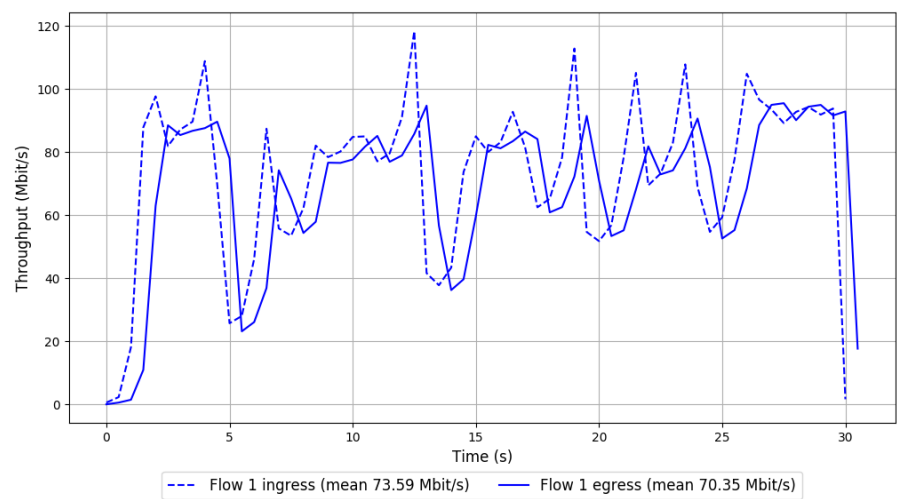


Run 3: Statistics of Copa

Start at: 2018-07-03 11:17:59
End at: 2018-07-03 11:18:29
Local clock offset: -4.999 ms
Remote clock offset: 1.44 ms

Below is generated by plot.py at 2018-07-03 13:45:45
Datalink statistics
-- Total of 1 flow:
Average throughput: 70.35 Mbit/s
95th percentile per-packet one-way delay: 116.951 ms
Loss rate: 4.41%
-- Flow 1:
Average throughput: 70.35 Mbit/s
95th percentile per-packet one-way delay: 116.951 ms
Loss rate: 4.41%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-07-03 11:37:50

End at: 2018-07-03 11:38:20

Local clock offset: -8.229 ms

Remote clock offset: 1.386 ms

Below is generated by plot.py at 2018-07-03 13:45:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.27 Mbit/s

95th percentile per-packet one-way delay: 101.760 ms

Loss rate: 1.04%

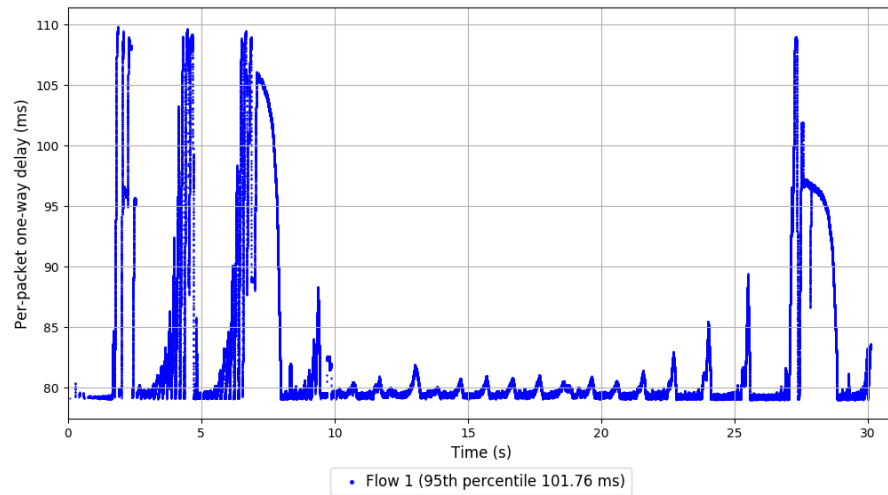
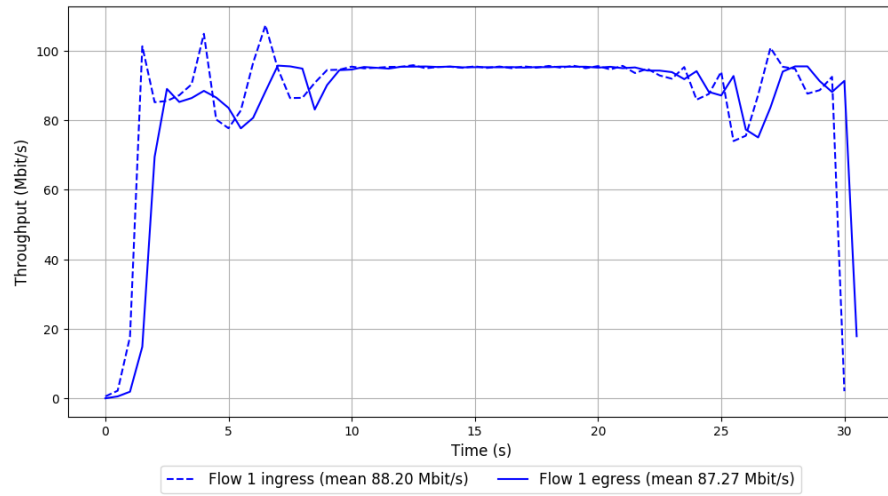
-- Flow 1:

Average throughput: 87.27 Mbit/s

95th percentile per-packet one-way delay: 101.760 ms

Loss rate: 1.04%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-07-03 11:57:45

End at: 2018-07-03 11:58:15

Local clock offset: -2.412 ms

Remote clock offset: 5.197 ms

Below is generated by plot.py at 2018-07-03 13:45:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.95 Mbit/s

95th percentile per-packet one-way delay: 112.628 ms

Loss rate: 2.92%

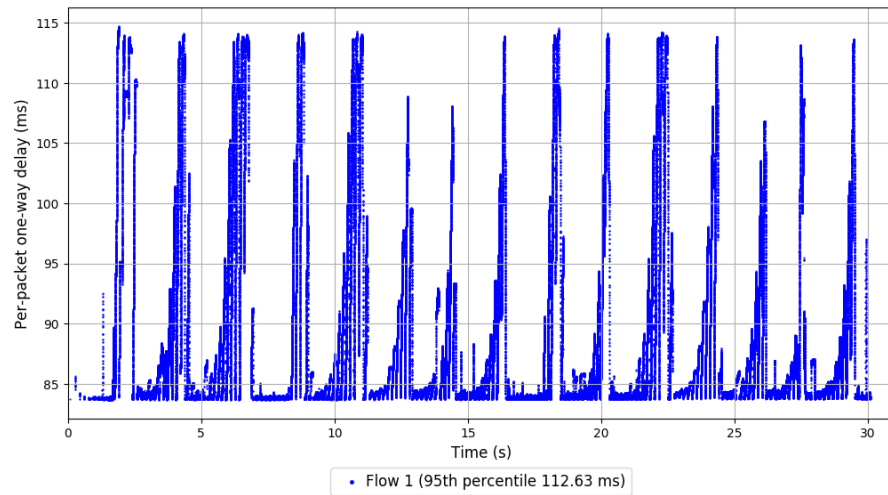
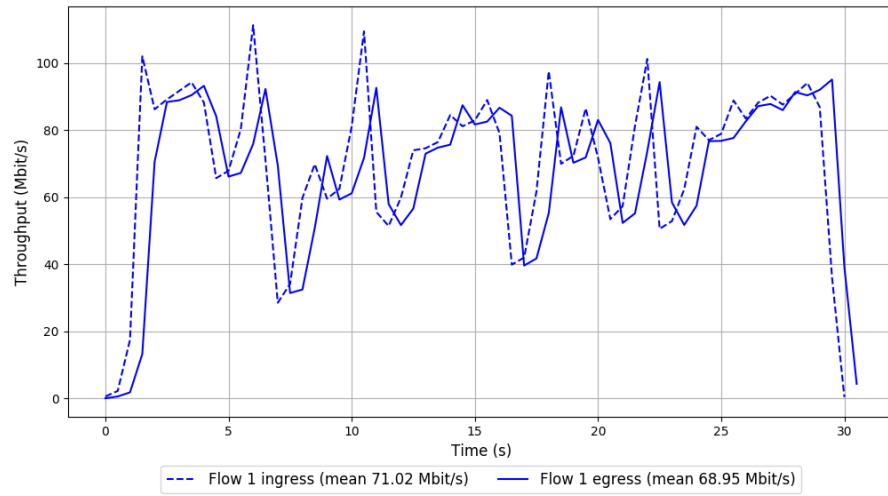
-- Flow 1:

Average throughput: 68.95 Mbit/s

95th percentile per-packet one-way delay: 112.628 ms

Loss rate: 2.92%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-07-03 12:17:40

End at: 2018-07-03 12:18:10

Local clock offset: -2.022 ms

Remote clock offset: 6.487 ms

Below is generated by plot.py at 2018-07-03 13:45:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.94 Mbit/s

95th percentile per-packet one-way delay: 112.675 ms

Loss rate: 3.08%

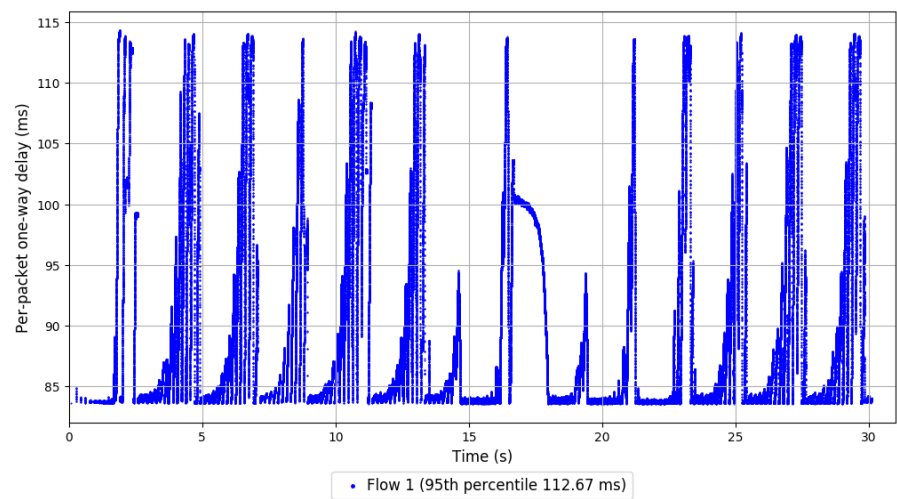
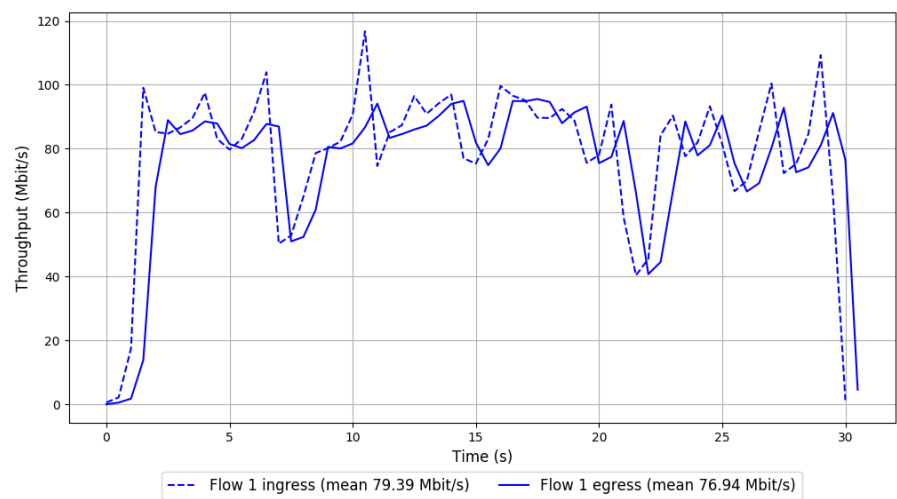
-- Flow 1:

Average throughput: 76.94 Mbit/s

95th percentile per-packet one-way delay: 112.675 ms

Loss rate: 3.08%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-07-03 12:37:41

End at: 2018-07-03 12:38:11

Local clock offset: -2.393 ms

Remote clock offset: 9.072 ms

Below is generated by plot.py at 2018-07-03 13:46:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.22 Mbit/s

95th percentile per-packet one-way delay: 114.654 ms

Loss rate: 4.00%

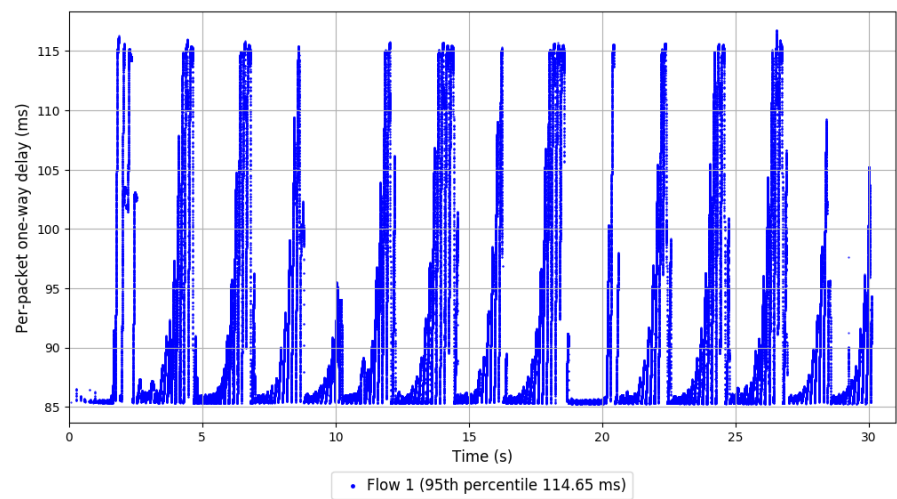
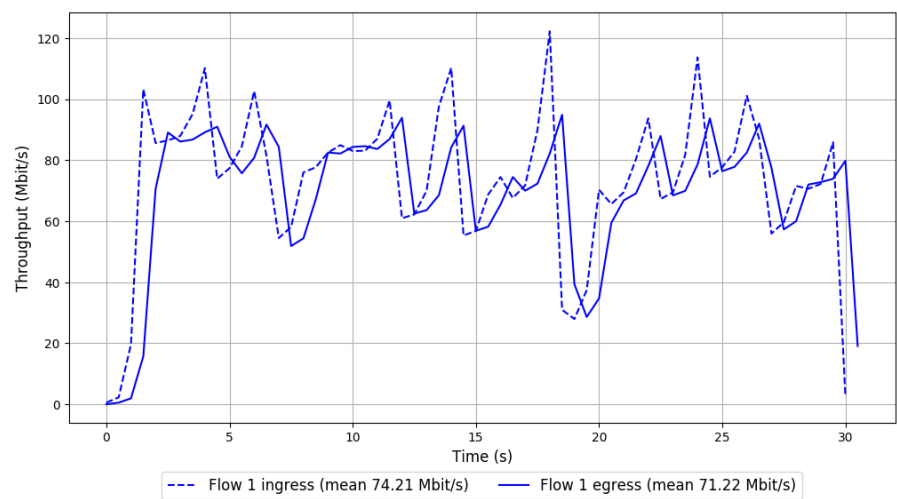
-- Flow 1:

Average throughput: 71.22 Mbit/s

95th percentile per-packet one-way delay: 114.654 ms

Loss rate: 4.00%

Run 7: Report of Copa — Data Link

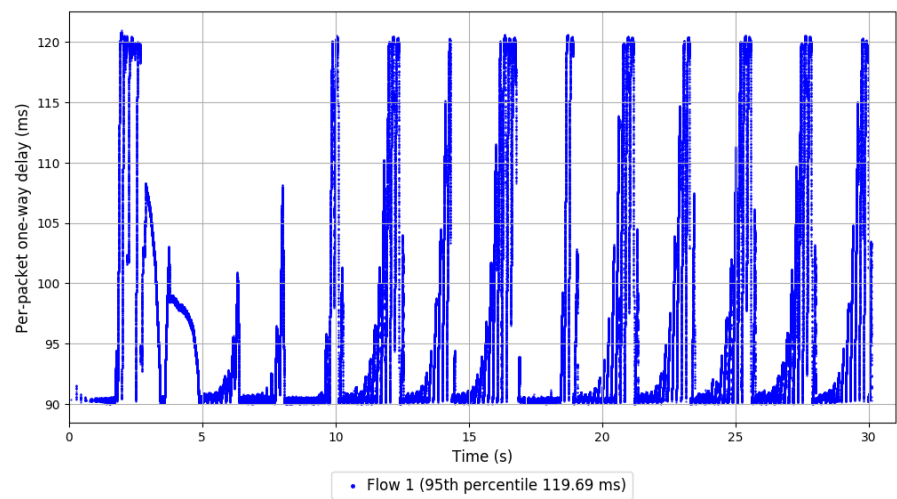
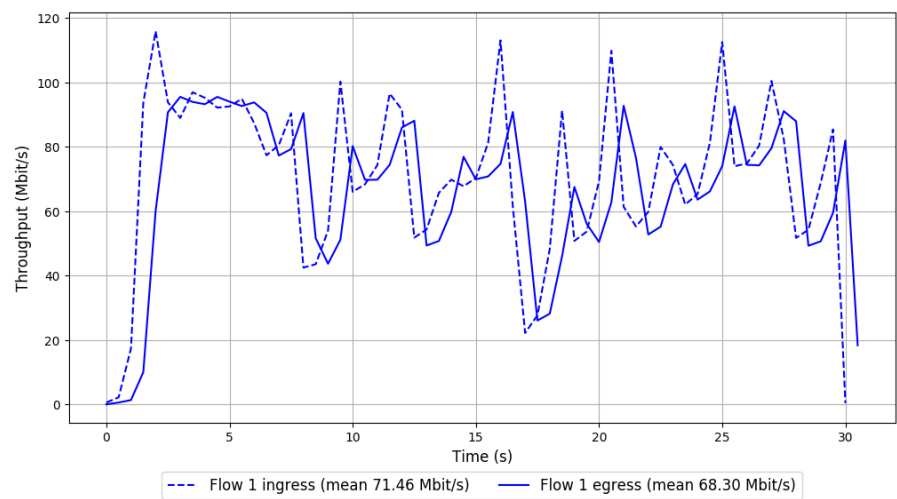


Run 8: Statistics of Copa

Start at: 2018-07-03 12:57:33
End at: 2018-07-03 12:58:03
Local clock offset: -1.726 ms
Remote clock offset: 9.077 ms

Below is generated by plot.py at 2018-07-03 13:46:38
Datalink statistics
-- Total of 1 flow:
Average throughput: 68.30 Mbit/s
95th percentile per-packet one-way delay: 119.691 ms
Loss rate: 4.43%
-- Flow 1:
Average throughput: 68.30 Mbit/s
95th percentile per-packet one-way delay: 119.691 ms
Loss rate: 4.43%

Run 8: Report of Copa — Data Link

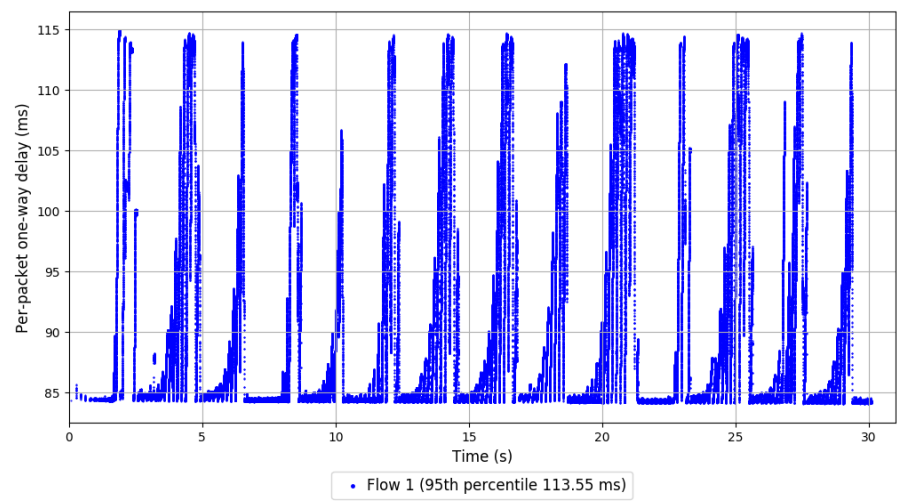
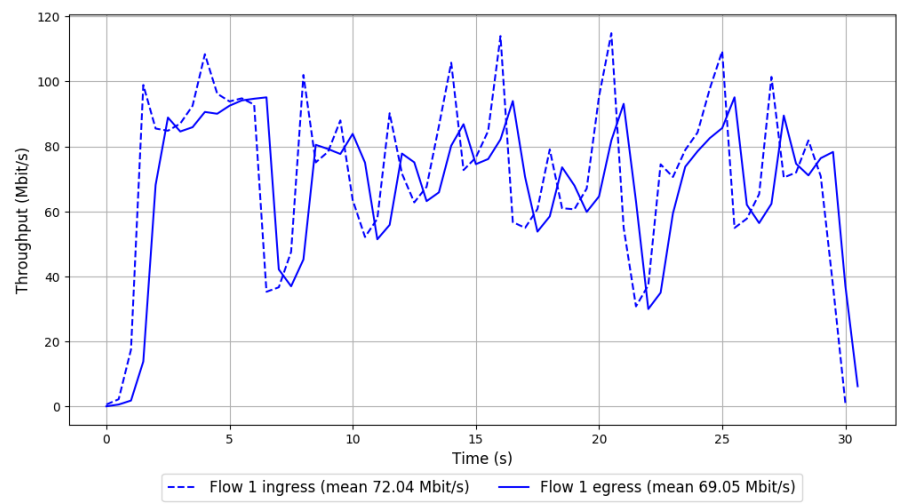


Run 9: Statistics of Copa

Start at: 2018-07-03 13:17:27
End at: 2018-07-03 13:17:57
Local clock offset: -1.533 ms
Remote clock offset: 14.261 ms

Below is generated by plot.py at 2018-07-03 13:47:10
Datalink statistics
-- Total of 1 flow:
Average throughput: 69.05 Mbit/s
95th percentile per-packet one-way delay: 113.547 ms
Loss rate: 4.15%
-- Flow 1:
Average throughput: 69.05 Mbit/s
95th percentile per-packet one-way delay: 113.547 ms
Loss rate: 4.15%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-07-03 13:37:21

End at: 2018-07-03 13:37:51

Local clock offset: -1.341 ms

Remote clock offset: 14.07 ms

Below is generated by plot.py at 2018-07-03 13:47:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.08 Mbit/s

95th percentile per-packet one-way delay: 114.234 ms

Loss rate: 3.48%

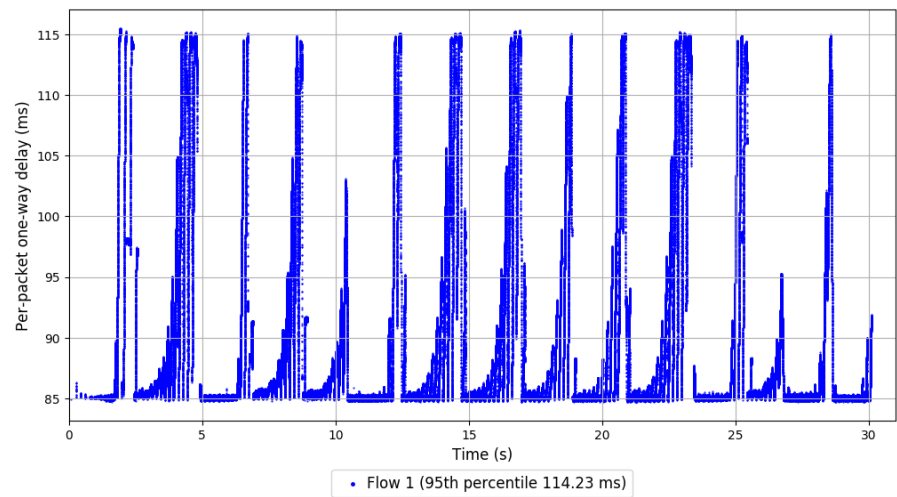
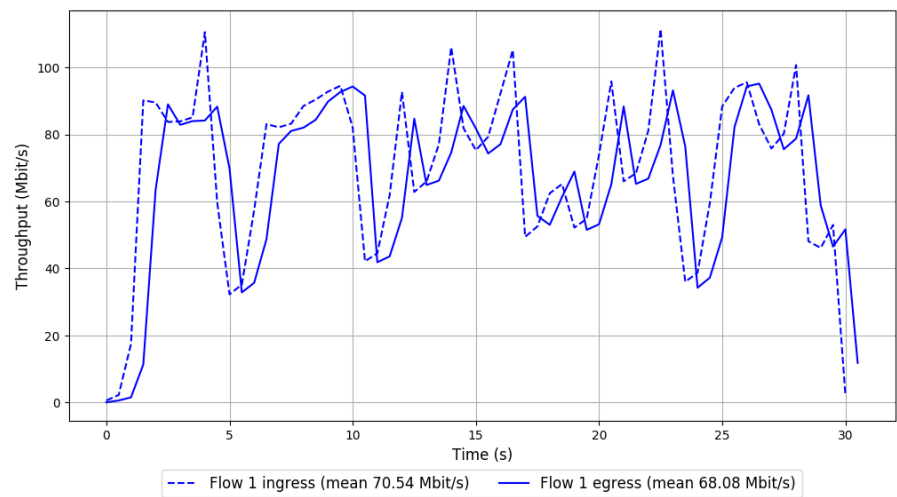
-- Flow 1:

Average throughput: 68.08 Mbit/s

95th percentile per-packet one-way delay: 114.234 ms

Loss rate: 3.48%

Run 10: Report of Copa — Data Link

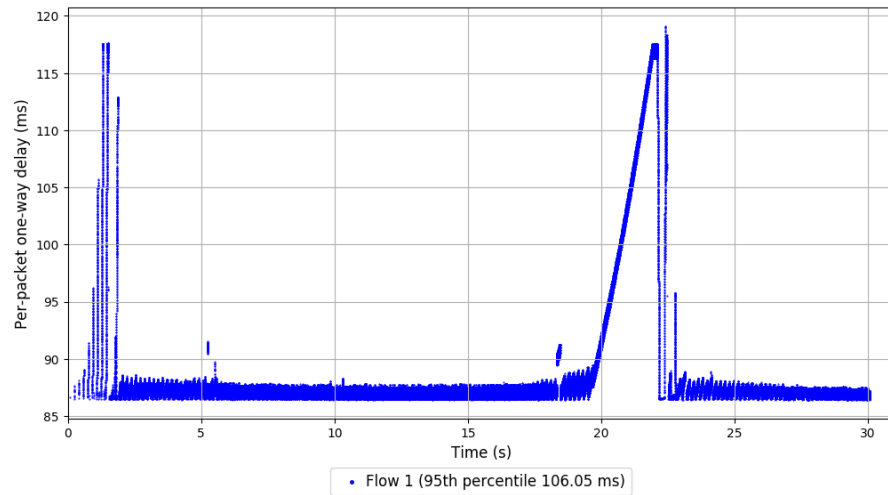
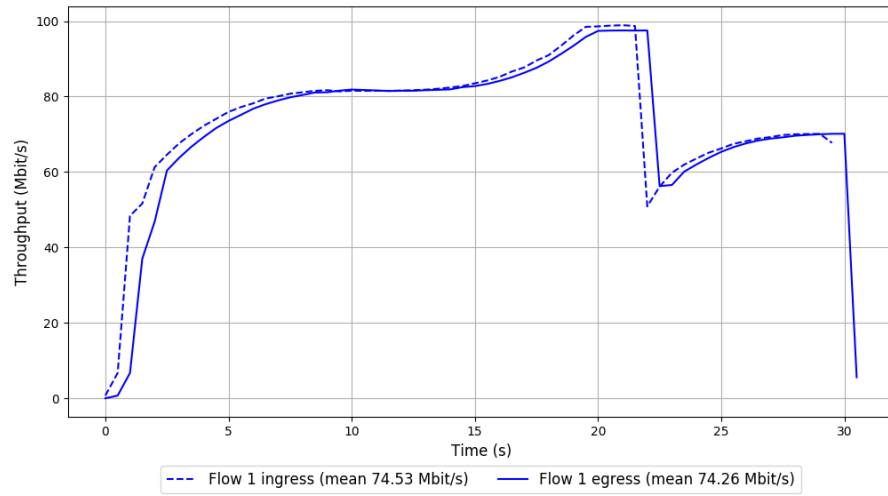


Run 1: Statistics of TCP Cubic

Start at: 2018-07-03 10:25:26
End at: 2018-07-03 10:25:56
Local clock offset: -6.556 ms
Remote clock offset: 14.571 ms

Below is generated by plot.py at 2018-07-03 13:47:12
Datalink statistics
-- Total of 1 flow:
Average throughput: 74.26 Mbit/s
95th percentile per-packet one-way delay: 106.047 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 74.26 Mbit/s
95th percentile per-packet one-way delay: 106.047 ms
Loss rate: 0.35%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-07-03 10:45:16

End at: 2018-07-03 10:45:46

Local clock offset: -5.329 ms

Remote clock offset: 10.29 ms

Below is generated by plot.py at 2018-07-03 13:47:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.75 Mbit/s

95th percentile per-packet one-way delay: 100.037 ms

Loss rate: 0.29%

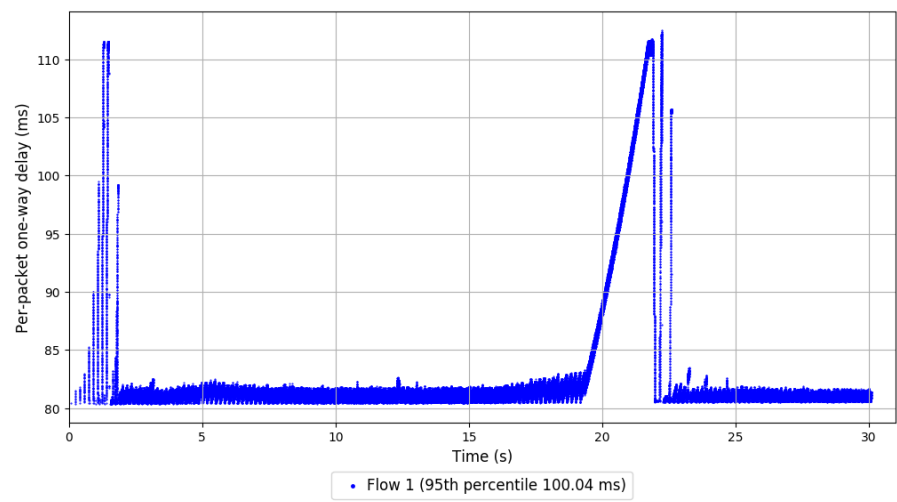
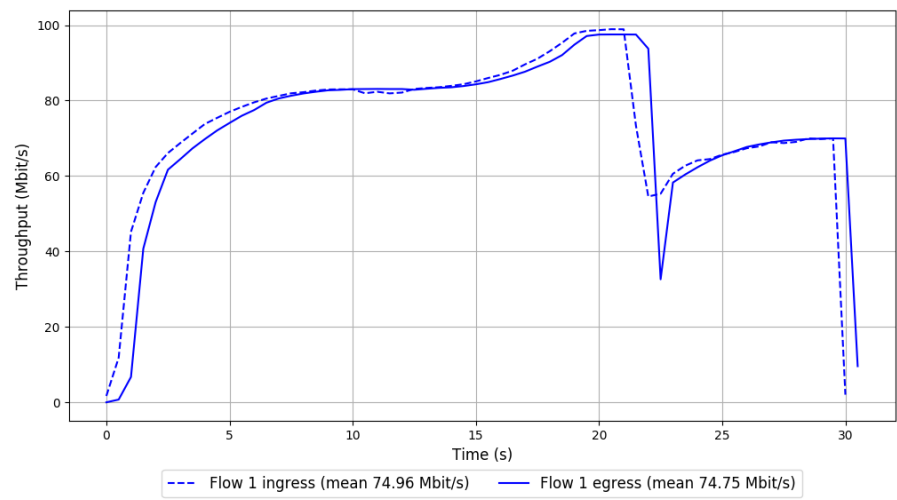
-- Flow 1:

Average throughput: 74.75 Mbit/s

95th percentile per-packet one-way delay: 100.037 ms

Loss rate: 0.29%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-07-03 11:05:06

End at: 2018-07-03 11:05:36

Local clock offset: -1.583 ms

Remote clock offset: 3.021 ms

Below is generated by plot.py at 2018-07-03 13:47:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 62.97 Mbit/s

95th percentile per-packet one-way delay: 80.358 ms

Loss rate: 0.20%

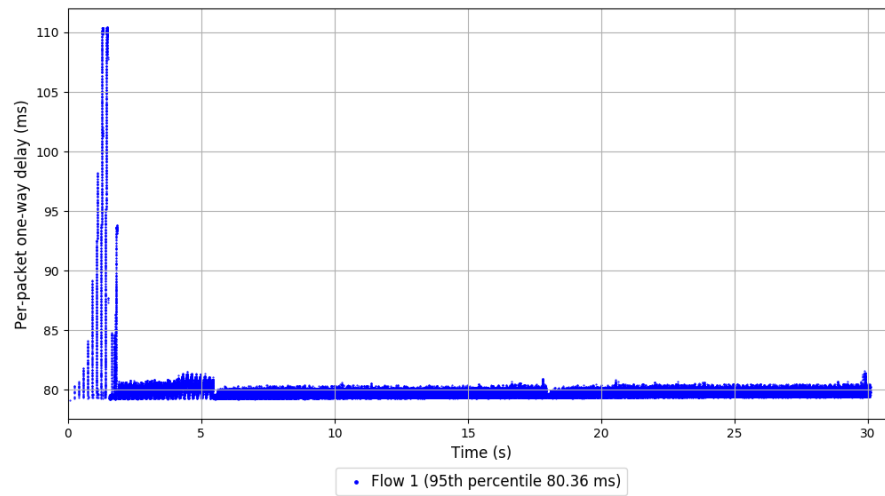
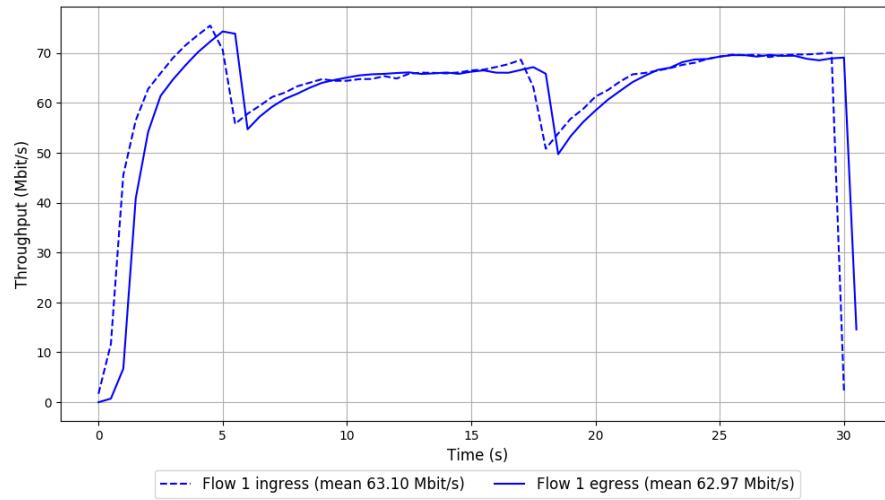
-- Flow 1:

Average throughput: 62.97 Mbit/s

95th percentile per-packet one-way delay: 80.358 ms

Loss rate: 0.20%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-07-03 11:24:58

End at: 2018-07-03 11:25:28

Local clock offset: -6.741 ms

Remote clock offset: 4.492 ms

Below is generated by plot.py at 2018-07-03 13:47:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 57.97 Mbit/s

95th percentile per-packet one-way delay: 105.949 ms

Loss rate: 0.55%

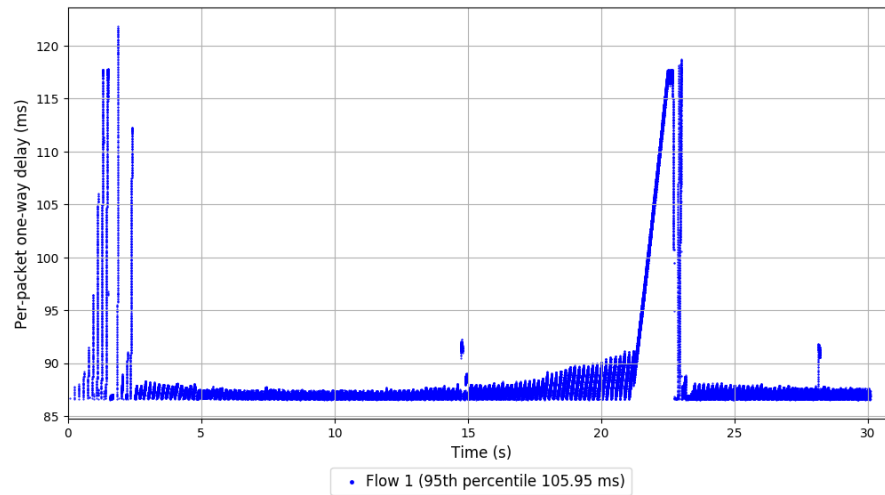
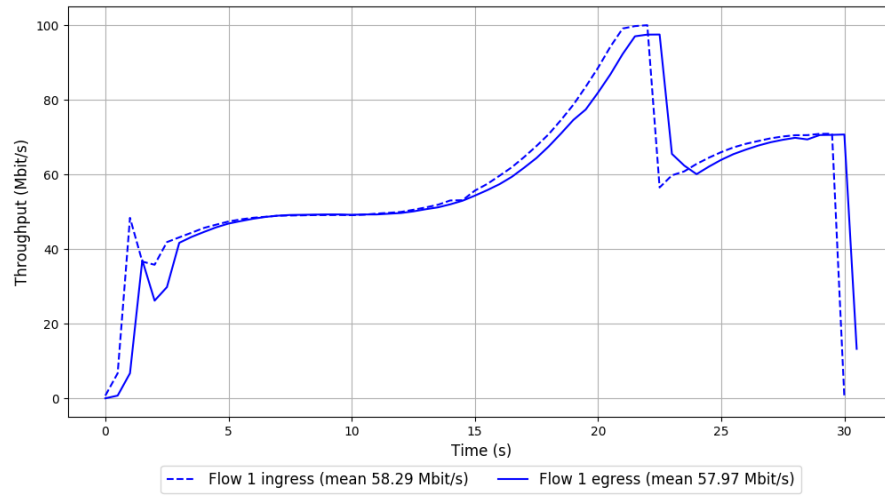
-- Flow 1:

Average throughput: 57.97 Mbit/s

95th percentile per-packet one-way delay: 105.949 ms

Loss rate: 0.55%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-07-03 11:44:50

End at: 2018-07-03 11:45:20

Local clock offset: -5.847 ms

Remote clock offset: 6.579 ms

Below is generated by plot.py at 2018-07-03 13:47:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.15 Mbit/s

95th percentile per-packet one-way delay: 109.986 ms

Loss rate: 0.35%

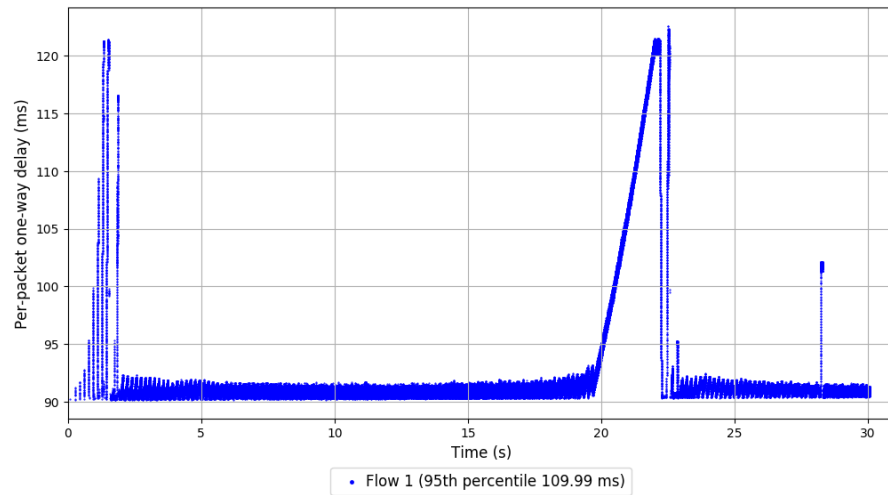
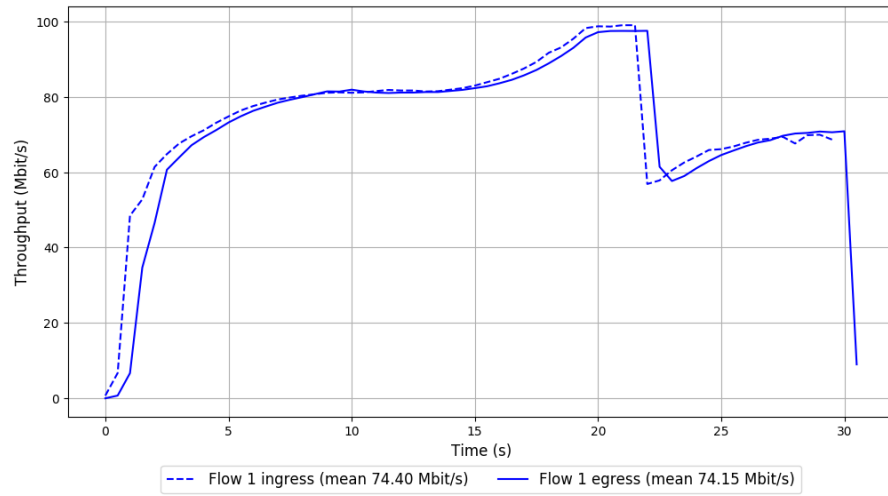
-- Flow 1:

Average throughput: 74.15 Mbit/s

95th percentile per-packet one-way delay: 109.986 ms

Loss rate: 0.35%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-07-03 12:04:45

End at: 2018-07-03 12:05:15

Local clock offset: -1.658 ms

Remote clock offset: 2.731 ms

Below is generated by plot.py at 2018-07-03 13:47:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 58.39 Mbit/s

95th percentile per-packet one-way delay: 101.973 ms

Loss rate: 0.56%

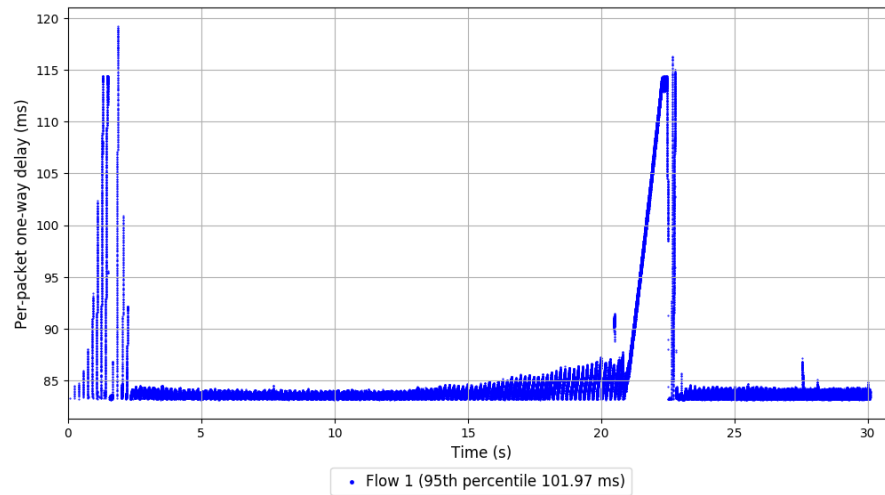
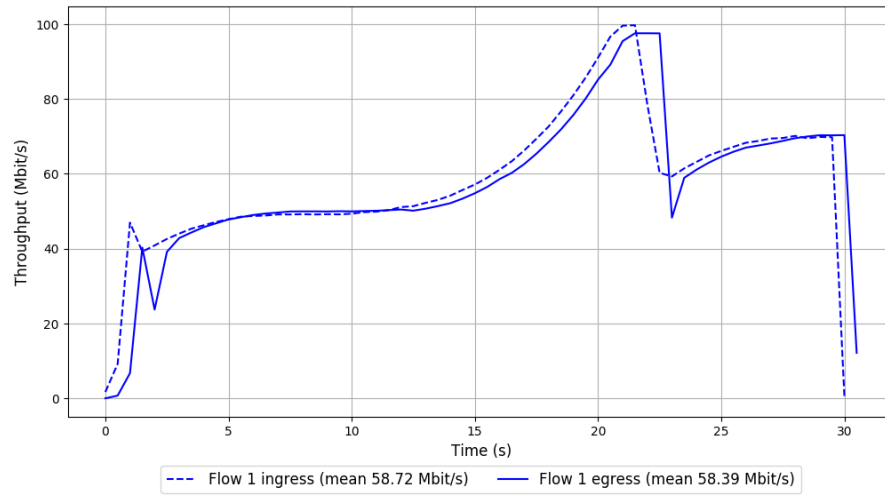
-- Flow 1:

Average throughput: 58.39 Mbit/s

95th percentile per-packet one-way delay: 101.973 ms

Loss rate: 0.56%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-07-03 12:24:46

End at: 2018-07-03 12:25:16

Local clock offset: -2.342 ms

Remote clock offset: 2.566 ms

Below is generated by plot.py at 2018-07-03 13:47:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.10 Mbit/s

95th percentile per-packet one-way delay: 82.521 ms

Loss rate: 0.31%

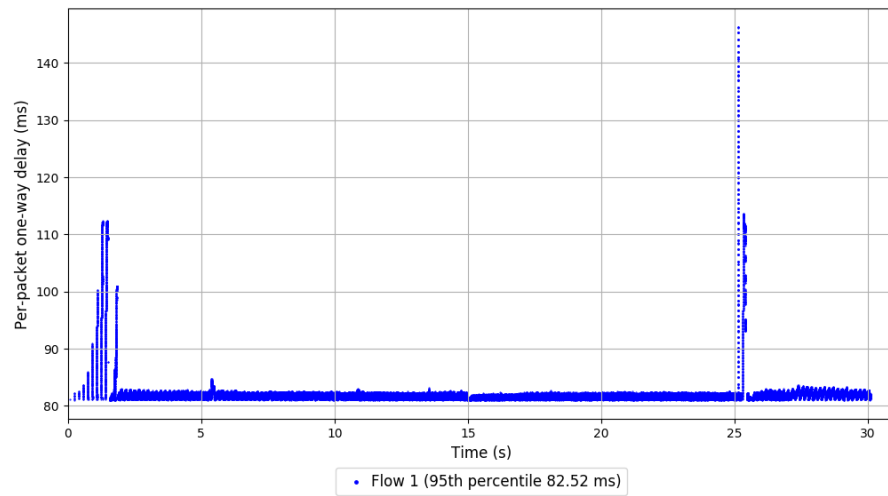
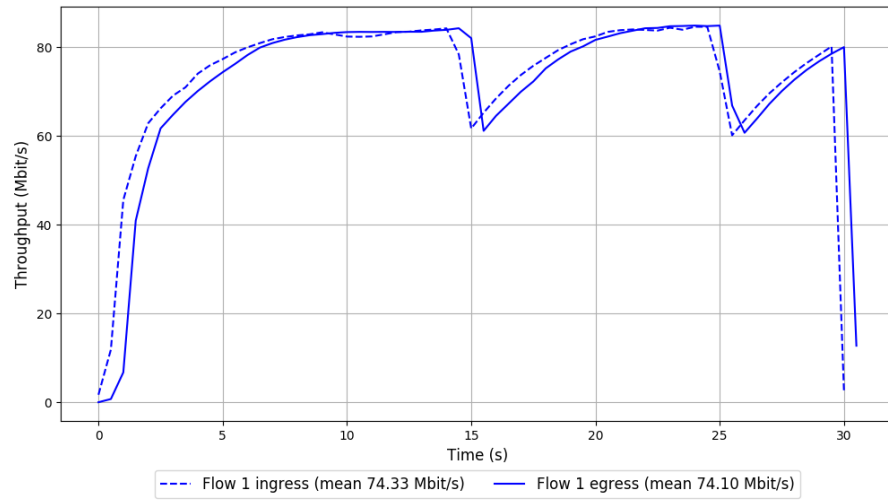
-- Flow 1:

Average throughput: 74.10 Mbit/s

95th percentile per-packet one-way delay: 82.521 ms

Loss rate: 0.31%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-07-03 12:44:42

End at: 2018-07-03 12:45:12

Local clock offset: -2.162 ms

Remote clock offset: 3.489 ms

Below is generated by plot.py at 2018-07-03 13:47:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 58.39 Mbit/s

95th percentile per-packet one-way delay: 101.425 ms

Loss rate: 1.00%

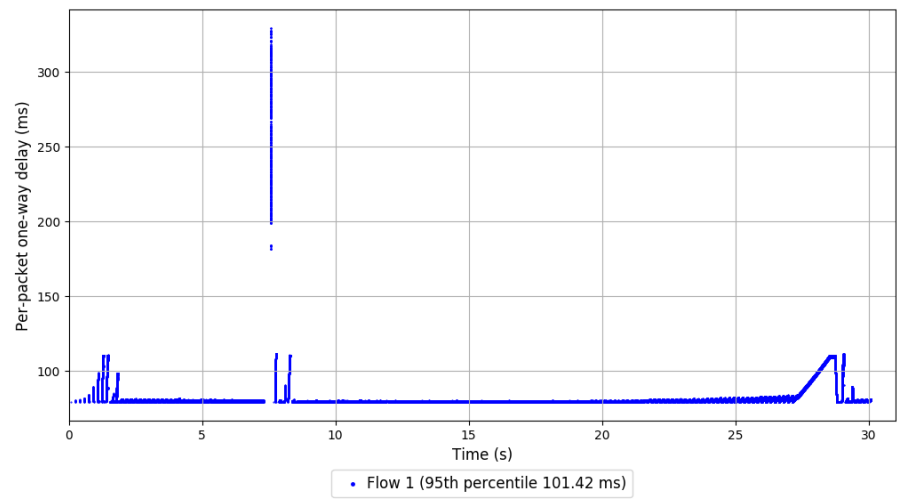
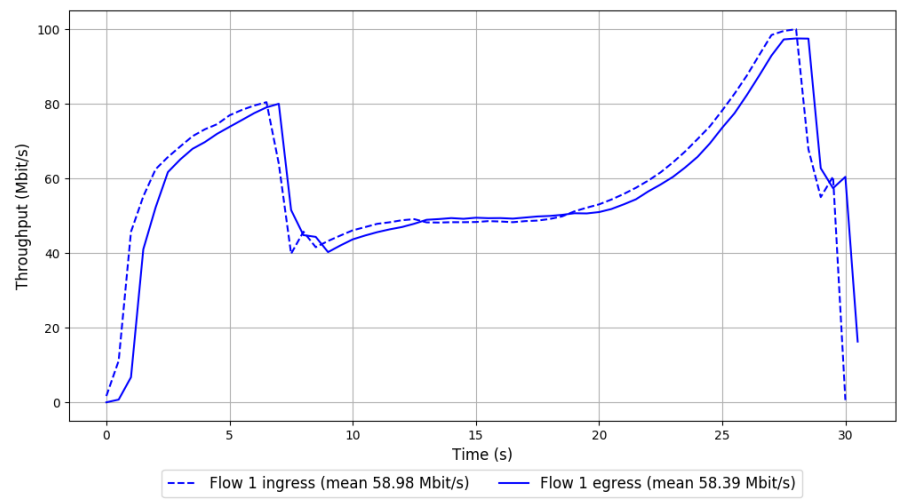
-- Flow 1:

Average throughput: 58.39 Mbit/s

95th percentile per-packet one-way delay: 101.425 ms

Loss rate: 1.00%

Run 8: Report of TCP Cubic — Data Link

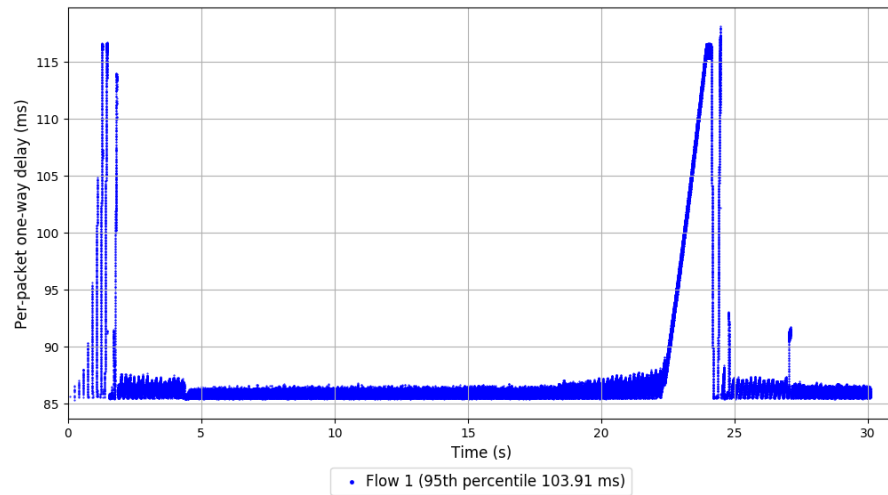
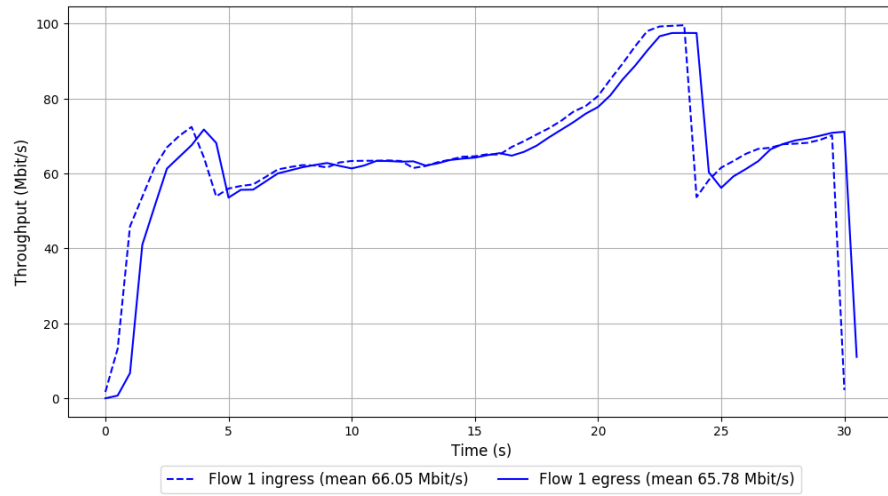


Run 9: Statistics of TCP Cubic

Start at: 2018-07-03 13:04:33
End at: 2018-07-03 13:05:03
Local clock offset: -1.556 ms
Remote clock offset: 10.341 ms

Below is generated by plot.py at 2018-07-03 13:47:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 65.78 Mbit/s
95th percentile per-packet one-way delay: 103.914 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 65.78 Mbit/s
95th percentile per-packet one-way delay: 103.914 ms
Loss rate: 0.40%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-07-03 13:24:26

End at: 2018-07-03 13:24:56

Local clock offset: -1.514 ms

Remote clock offset: 16.727 ms

Below is generated by plot.py at 2018-07-03 13:47:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.65 Mbit/s

95th percentile per-packet one-way delay: 105.255 ms

Loss rate: 0.28%

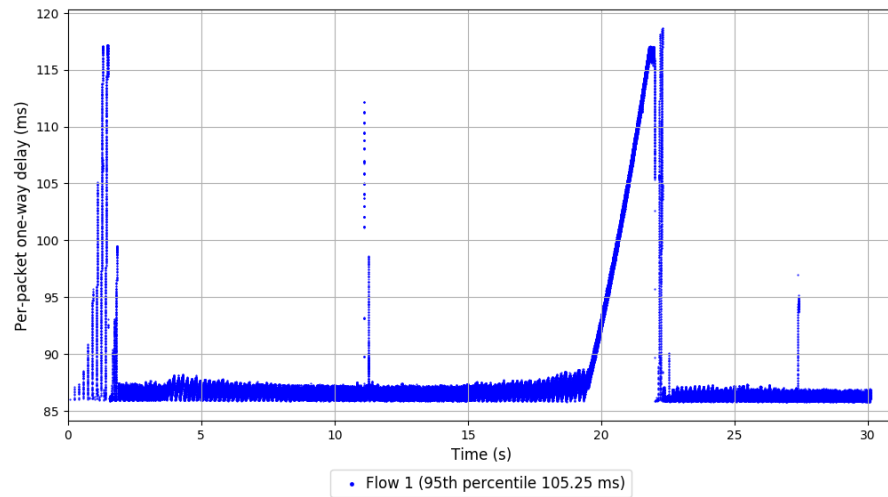
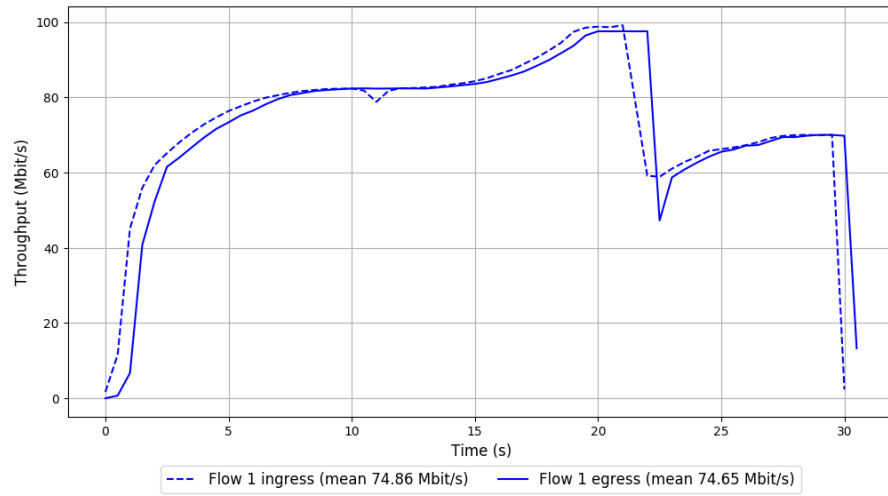
-- Flow 1:

Average throughput: 74.65 Mbit/s

95th percentile per-packet one-way delay: 105.255 ms

Loss rate: 0.28%

Run 10: Report of TCP Cubic — Data Link

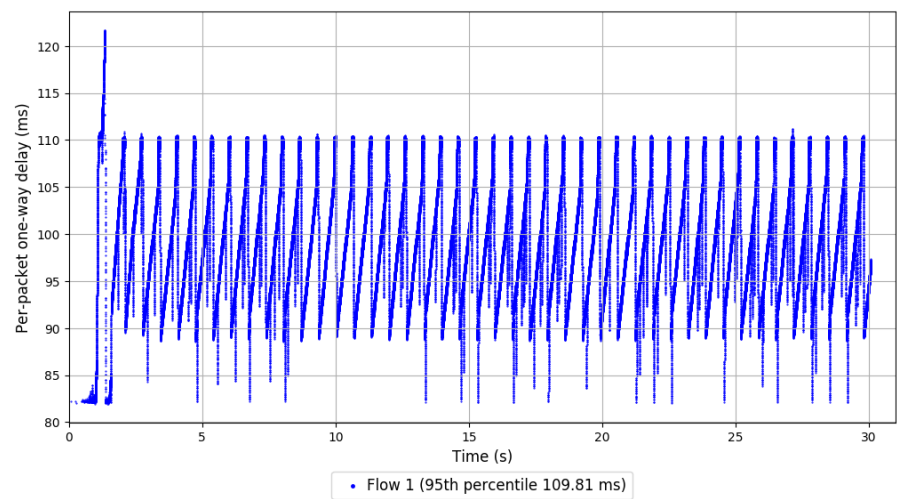
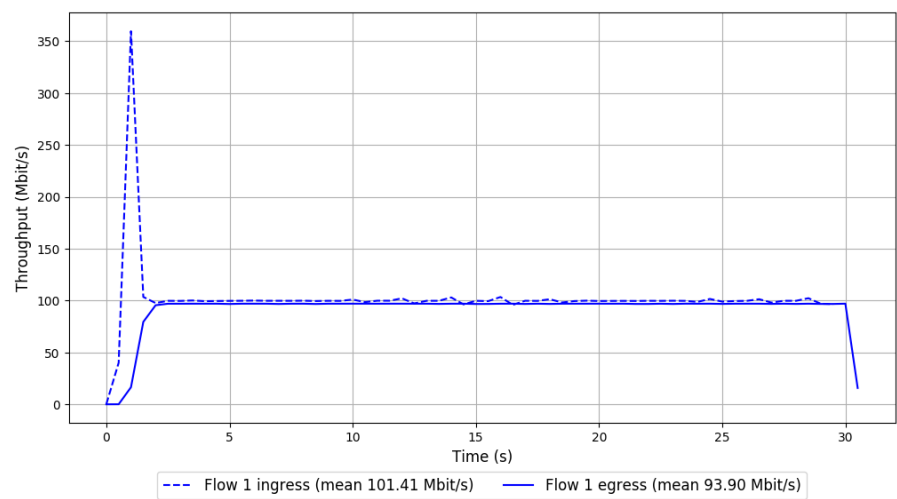


Run 1: Statistics of FillP

Start at: 2018-07-03 10:27:45
End at: 2018-07-03 10:28:15
Local clock offset: -6.89 ms
Remote clock offset: 10.522 ms

Below is generated by plot.py at 2018-07-03 13:48:45
Datalink statistics
-- Total of 1 flow:
Average throughput: 93.90 Mbit/s
95th percentile per-packet one-way delay: 109.806 ms
Loss rate: 7.36%
-- Flow 1:
Average throughput: 93.90 Mbit/s
95th percentile per-packet one-way delay: 109.806 ms
Loss rate: 7.36%

Run 1: Report of FillP — Data Link

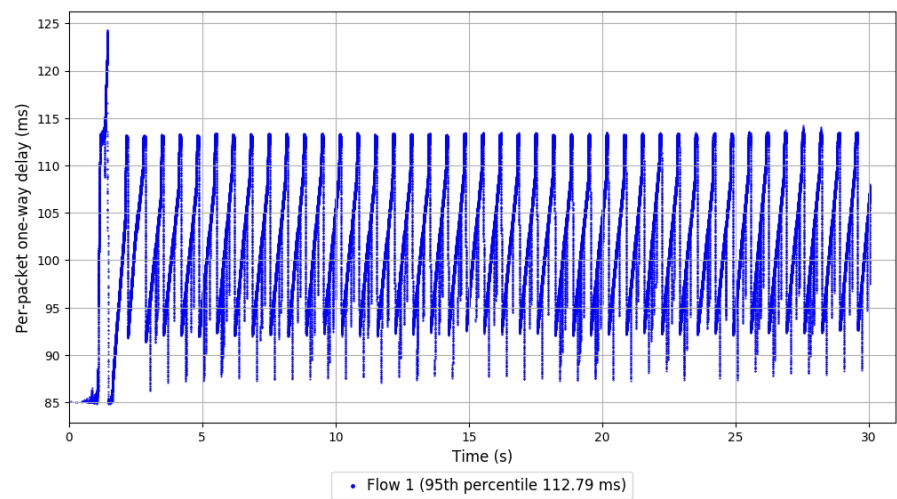
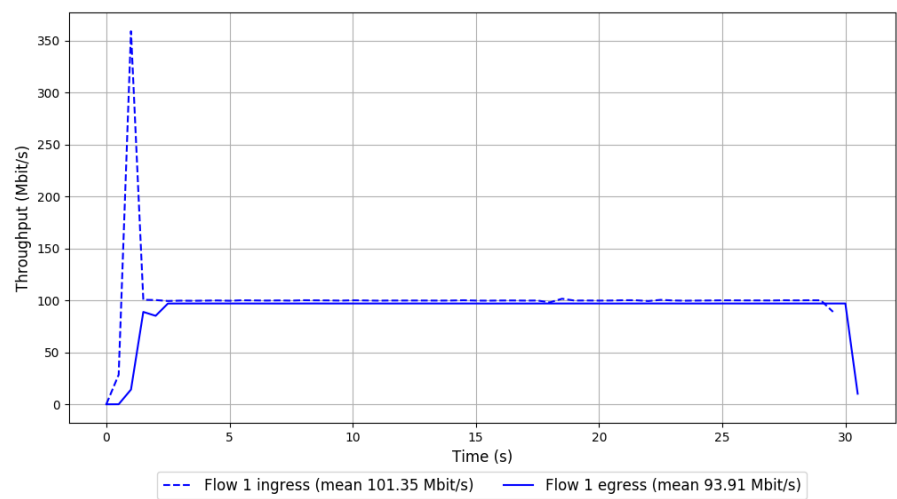


Run 2: Statistics of FillP

Start at: 2018-07-03 10:47:35
End at: 2018-07-03 10:48:05
Local clock offset: -4.45 ms
Remote clock offset: 13.128 ms

Below is generated by plot.py at 2018-07-03 13:48:46
Datalink statistics
-- Total of 1 flow:
Average throughput: 93.91 Mbit/s
95th percentile per-packet one-way delay: 112.791 ms
Loss rate: 7.26%
-- Flow 1:
Average throughput: 93.91 Mbit/s
95th percentile per-packet one-way delay: 112.791 ms
Loss rate: 7.26%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

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

End at: 2018-07-03 11:07:55

Local clock offset: -1.359 ms

Remote clock offset: 7.388 ms

Below is generated by plot.py at 2018-07-03 13:48:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.89 Mbit/s

95th percentile per-packet one-way delay: 113.802 ms

Loss rate: 7.48%

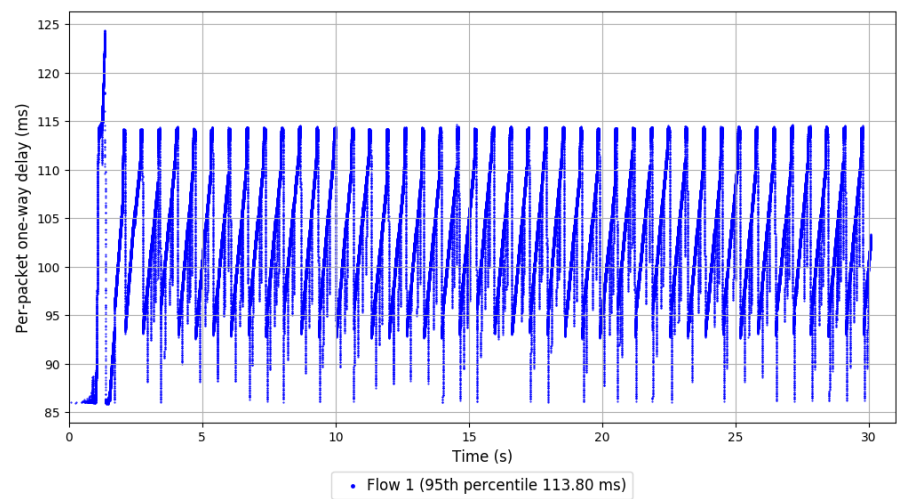
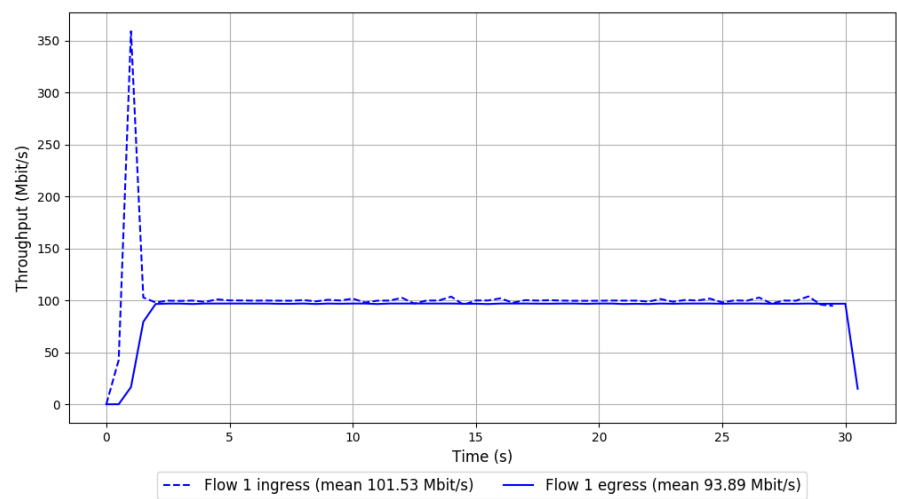
-- Flow 1:

Average throughput: 93.89 Mbit/s

95th percentile per-packet one-way delay: 113.802 ms

Loss rate: 7.48%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-07-03 11:27:17

End at: 2018-07-03 11:27:47

Local clock offset: -7.084 ms

Remote clock offset: 3.054 ms

Below is generated by plot.py at 2018-07-03 13:48:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.94 Mbit/s

95th percentile per-packet one-way delay: 112.299 ms

Loss rate: 7.47%

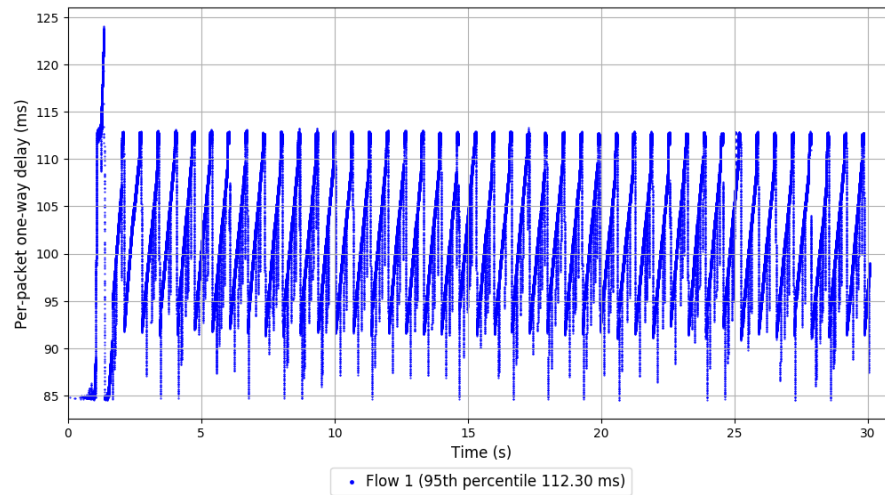
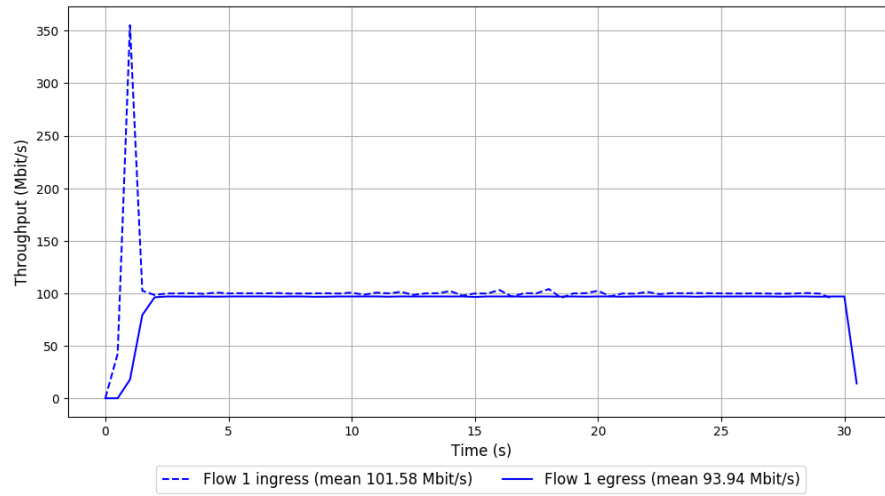
-- Flow 1:

Average throughput: 93.94 Mbit/s

95th percentile per-packet one-way delay: 112.299 ms

Loss rate: 7.47%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-07-03 11:47:10

End at: 2018-07-03 11:47:40

Local clock offset: -4.841 ms

Remote clock offset: 1.576 ms

Below is generated by plot.py at 2018-07-03 13:49:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.84 Mbit/s

95th percentile per-packet one-way delay: 107.675 ms

Loss rate: 7.61%

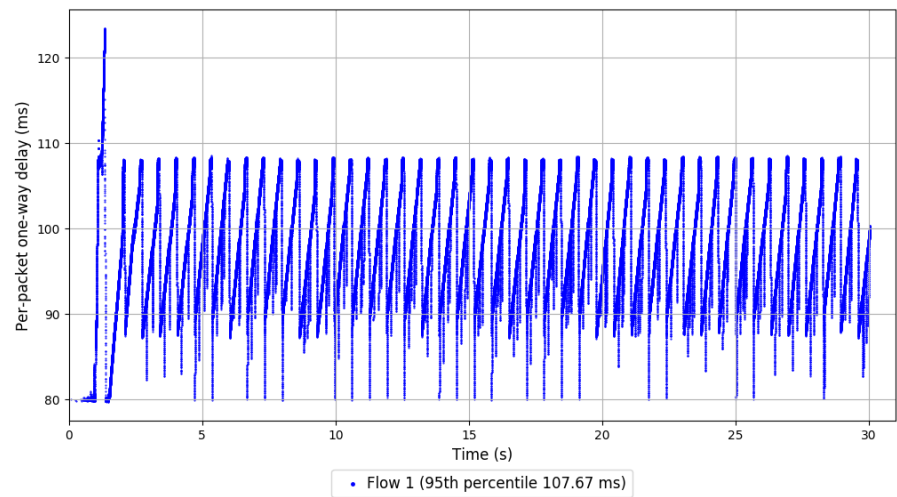
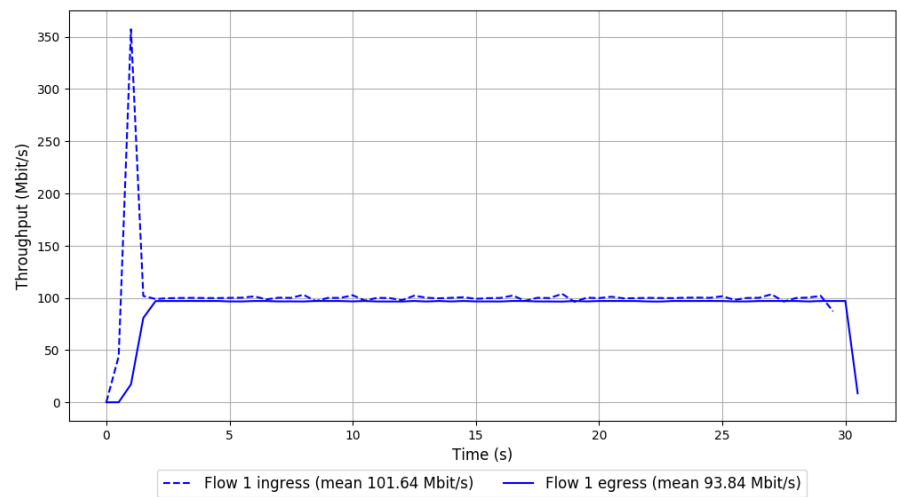
-- Flow 1:

Average throughput: 93.84 Mbit/s

95th percentile per-packet one-way delay: 107.675 ms

Loss rate: 7.61%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-07-03 12:07:03

End at: 2018-07-03 12:07:33

Local clock offset: -1.479 ms

Remote clock offset: 1.973 ms

Below is generated by plot.py at 2018-07-03 13:49:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.56 Mbit/s

95th percentile per-packet one-way delay: 114.617 ms

Loss rate: 7.77%

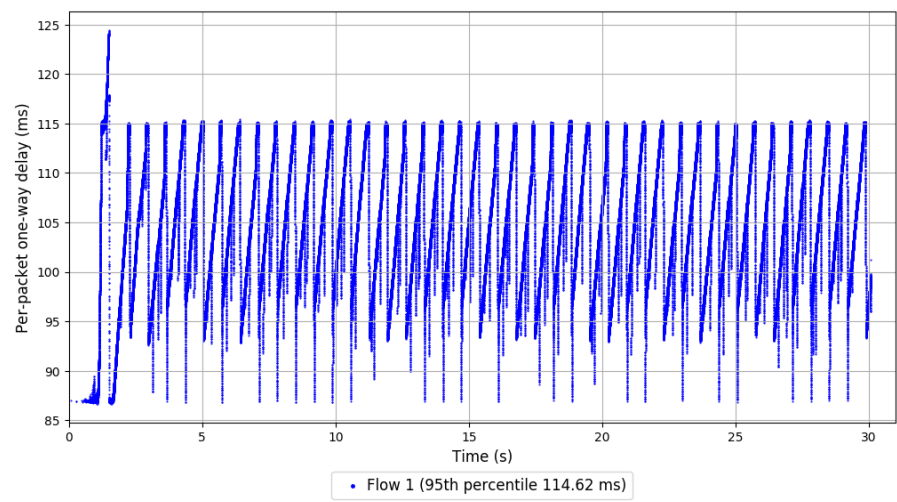
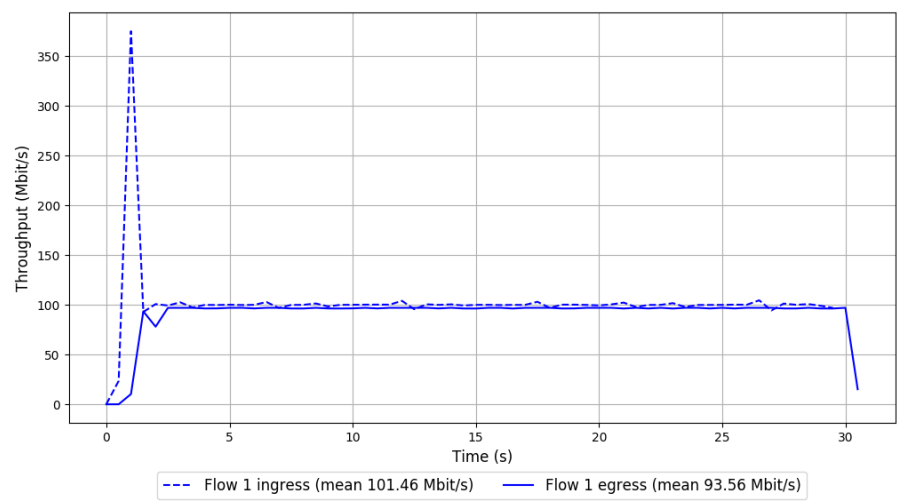
-- Flow 1:

Average throughput: 93.56 Mbit/s

95th percentile per-packet one-way delay: 114.617 ms

Loss rate: 7.77%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-07-03 12:27:05

End at: 2018-07-03 12:27:35

Local clock offset: -2.383 ms

Remote clock offset: 2.468 ms

Below is generated by plot.py at 2018-07-03 13:49:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.87 Mbit/s

95th percentile per-packet one-way delay: 109.644 ms

Loss rate: 7.38%

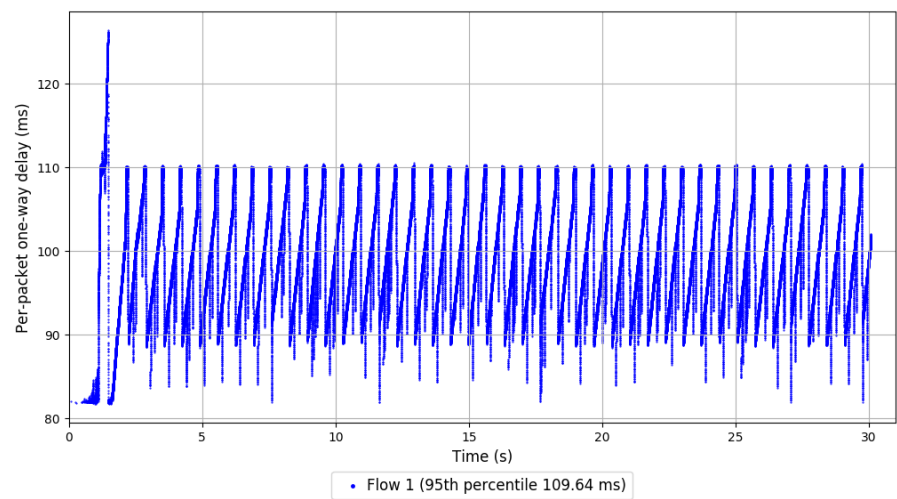
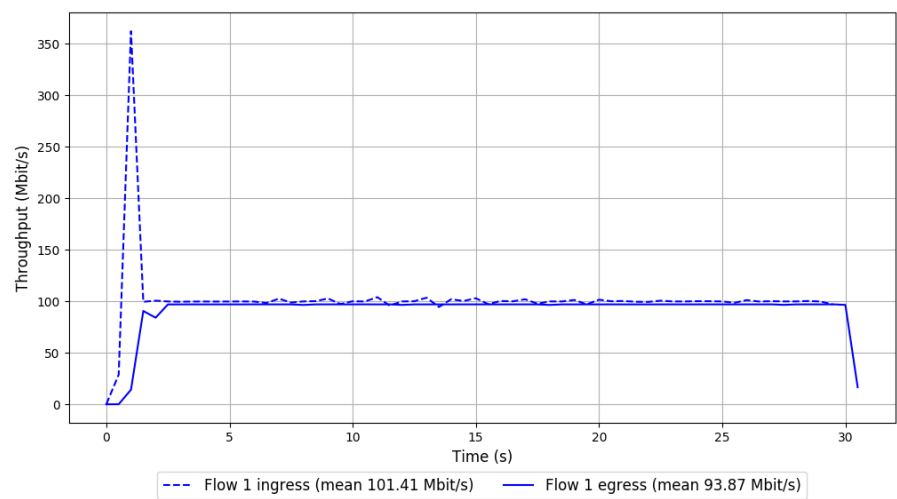
-- Flow 1:

Average throughput: 93.87 Mbit/s

95th percentile per-packet one-way delay: 109.644 ms

Loss rate: 7.38%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-07-03 12:47:00

End at: 2018-07-03 12:47:30

Local clock offset: -2.054 ms

Remote clock offset: 8.782 ms

Below is generated by plot.py at 2018-07-03 13:49:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.90 Mbit/s

95th percentile per-packet one-way delay: 114.285 ms

Loss rate: 7.35%

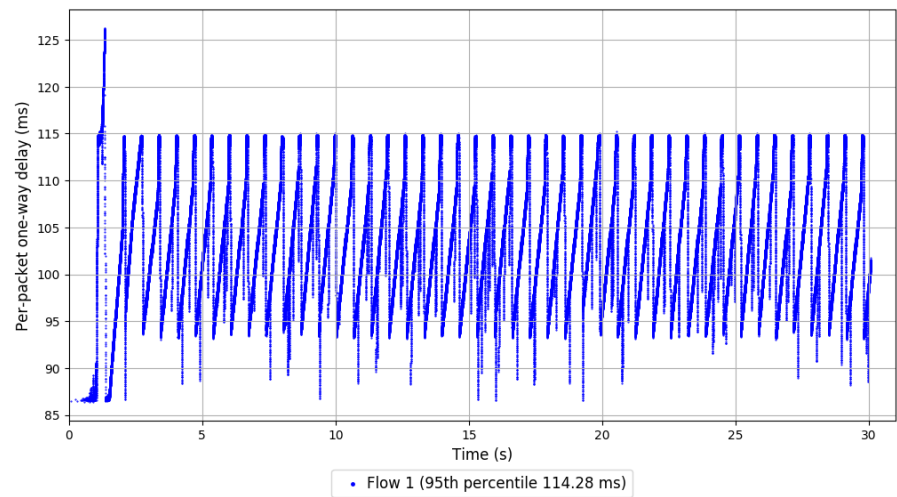
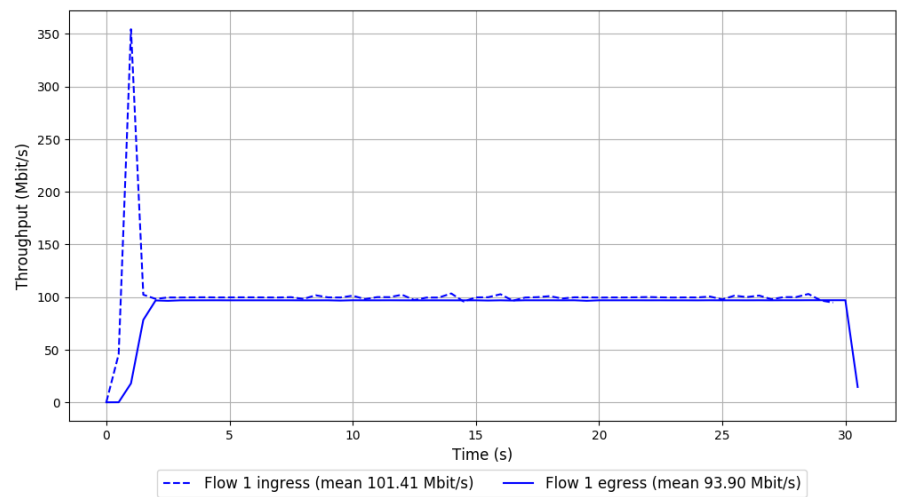
-- Flow 1:

Average throughput: 93.90 Mbit/s

95th percentile per-packet one-way delay: 114.285 ms

Loss rate: 7.35%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-07-03 13:06:51

End at: 2018-07-03 13:07:21

Local clock offset: -1.508 ms

Remote clock offset: 5.419 ms

Below is generated by plot.py at 2018-07-03 13:50:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.89 Mbit/s

95th percentile per-packet one-way delay: 109.131 ms

Loss rate: 7.44%

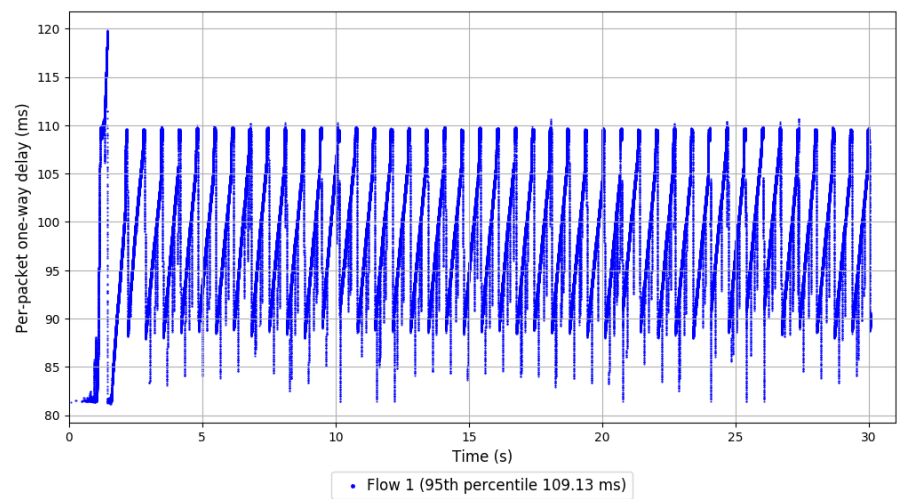
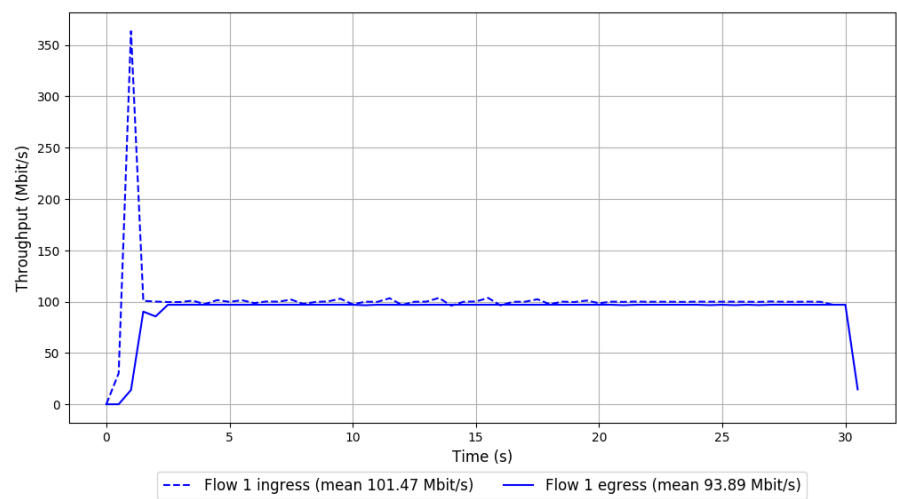
-- Flow 1:

Average throughput: 93.89 Mbit/s

95th percentile per-packet one-way delay: 109.131 ms

Loss rate: 7.44%

Run 9: Report of FillP — Data Link

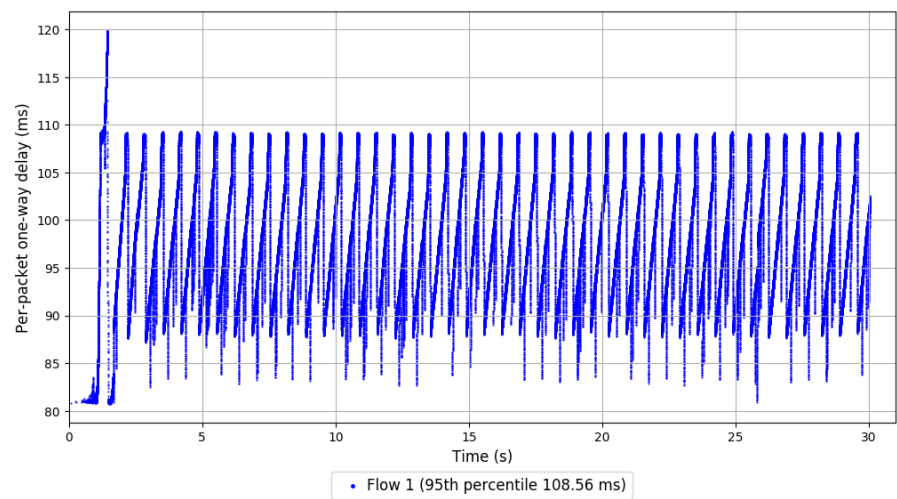
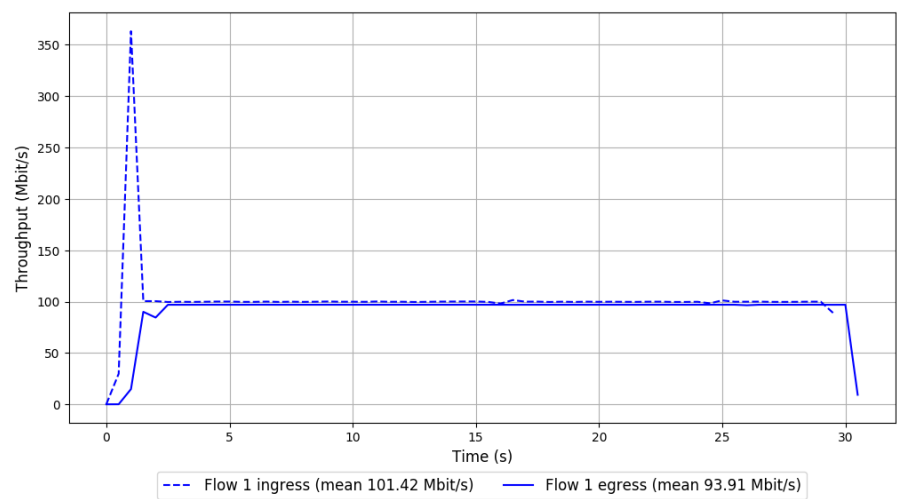


Run 10: Statistics of FillP

Start at: 2018-07-03 13:26:46
End at: 2018-07-03 13:27:16
Local clock offset: -1.483 ms
Remote clock offset: 12.157 ms

Below is generated by plot.py at 2018-07-03 13:50:14
Datalink statistics
-- Total of 1 flow:
Average throughput: 93.91 Mbit/s
95th percentile per-packet one-way delay: 108.564 ms
Loss rate: 7.34%
-- Flow 1:
Average throughput: 93.91 Mbit/s
95th percentile per-packet one-way delay: 108.564 ms
Loss rate: 7.34%

Run 10: Report of FillP — Data Link



Run 1: Statistics of FillP-Sheep

Start at: 2018-07-03 10:28:55

End at: 2018-07-03 10:29:25

Local clock offset: -6.99 ms

Remote clock offset: 9.59 ms

Below is generated by plot.py at 2018-07-03 13:50:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.44 Mbit/s

95th percentile per-packet one-way delay: 107.177 ms

Loss rate: 3.47%

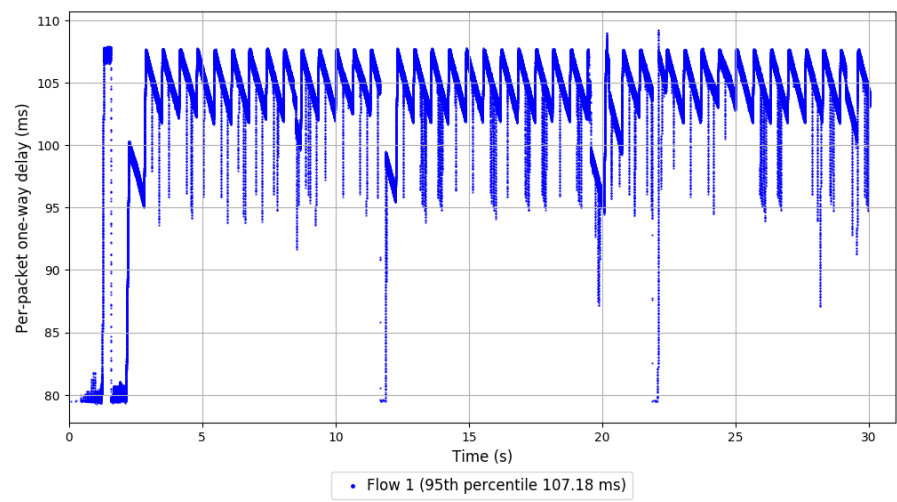
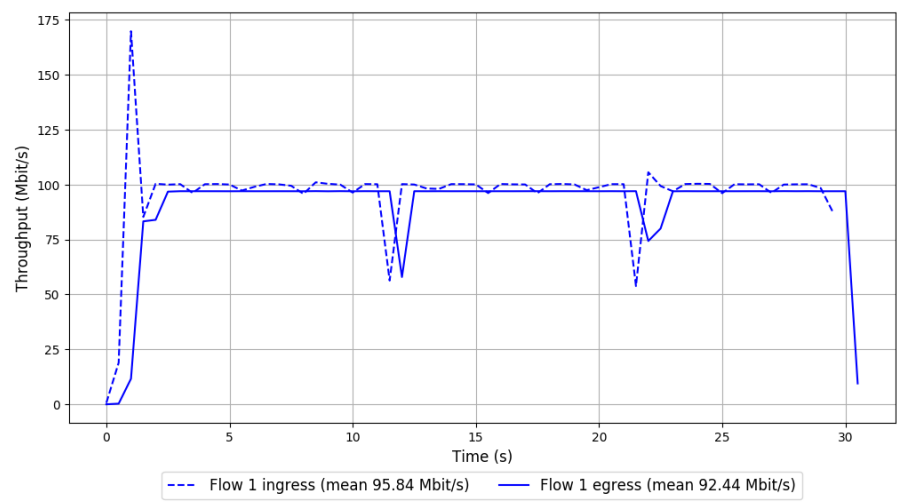
-- Flow 1:

Average throughput: 92.44 Mbit/s

95th percentile per-packet one-way delay: 107.177 ms

Loss rate: 3.47%

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

Start at: 2018-07-03 10:48:45

End at: 2018-07-03 10:49:15

Local clock offset: -4.081 ms

Remote clock offset: 14.19 ms

Below is generated by plot.py at 2018-07-03 13:50:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.98 Mbit/s

95th percentile per-packet one-way delay: 119.820 ms

Loss rate: 3.64%

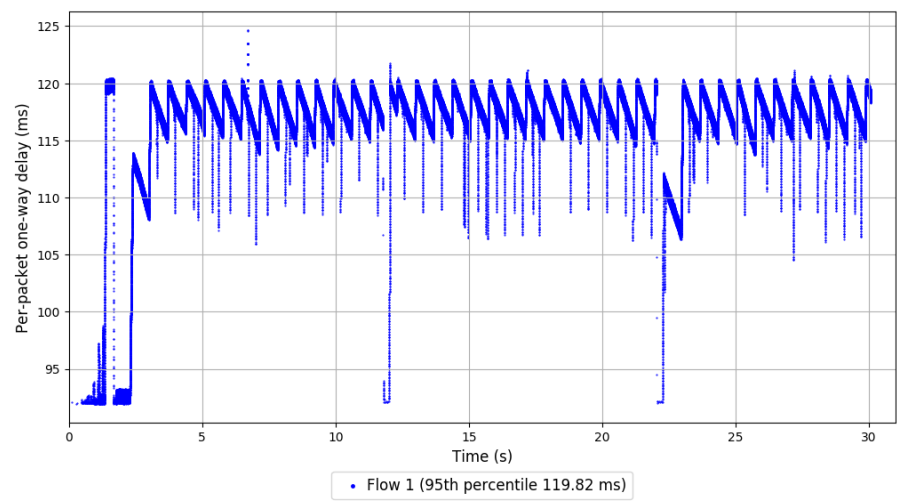
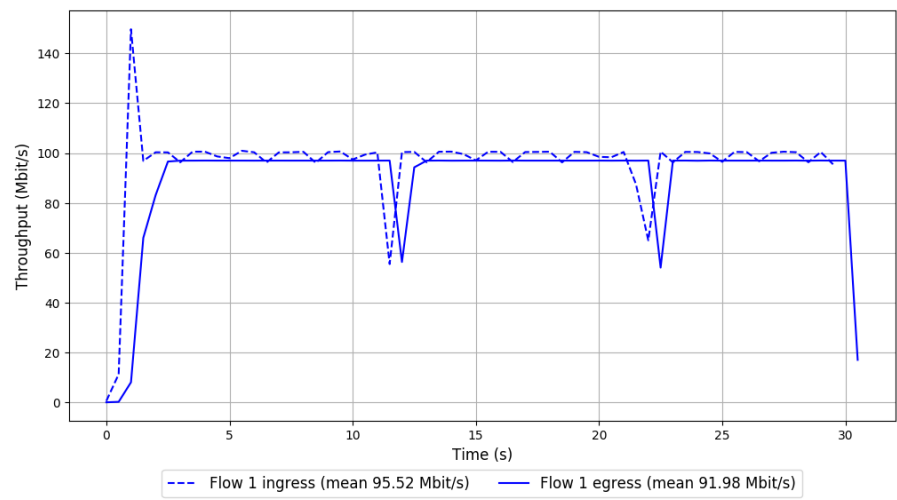
-- Flow 1:

Average throughput: 91.98 Mbit/s

95th percentile per-packet one-way delay: 119.820 ms

Loss rate: 3.64%

Run 2: Report of FillP-Sheep — Data Link



Run 3: Statistics of FillP-Sheep

Start at: 2018-07-03 11:08:36

End at: 2018-07-03 11:09:06

Local clock offset: -1.299 ms

Remote clock offset: 8.188 ms

Below is generated by plot.py at 2018-07-03 13:50:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.20 Mbit/s

95th percentile per-packet one-way delay: 113.139 ms

Loss rate: 3.73%

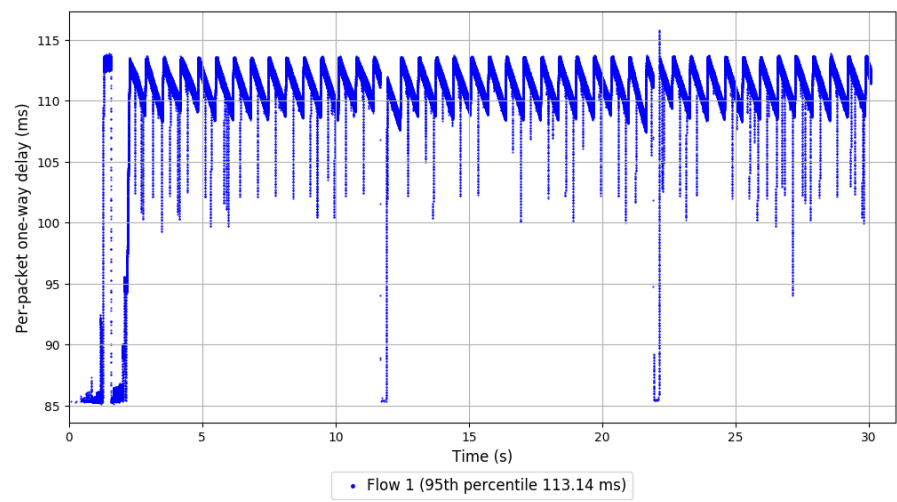
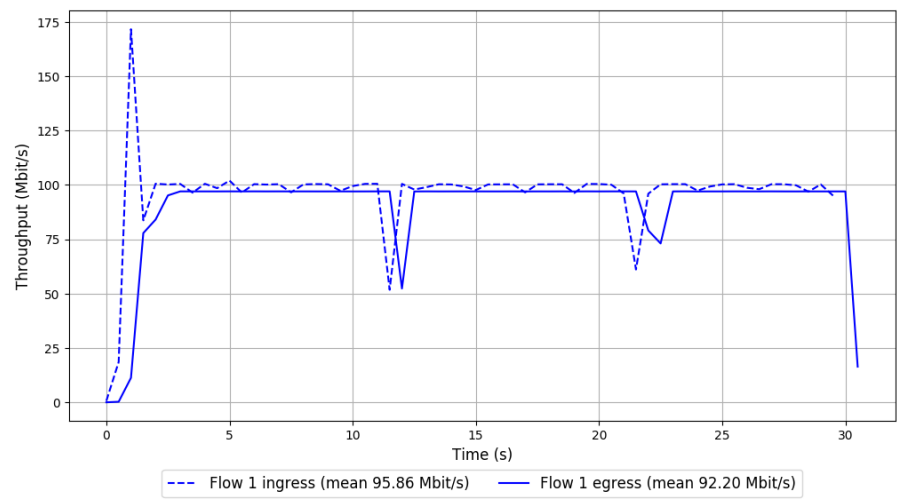
-- Flow 1:

Average throughput: 92.20 Mbit/s

95th percentile per-packet one-way delay: 113.139 ms

Loss rate: 3.73%

Run 3: Report of FillP-Sheep — Data Link



Run 4: Statistics of FillP-Sheep

Start at: 2018-07-03 11:28:28

End at: 2018-07-03 11:28:58

Local clock offset: -7.246 ms

Remote clock offset: 4.549 ms

Below is generated by plot.py at 2018-07-03 13:50:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.47 Mbit/s

95th percentile per-packet one-way delay: 111.621 ms

Loss rate: 3.47%

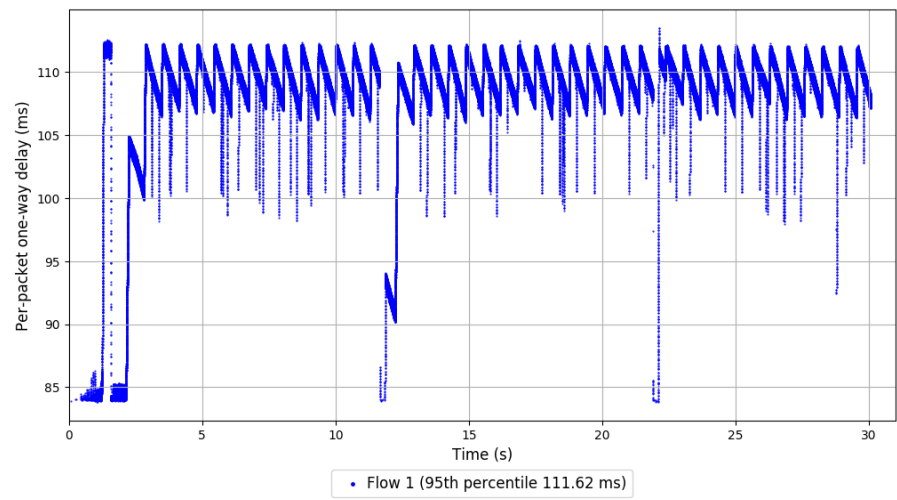
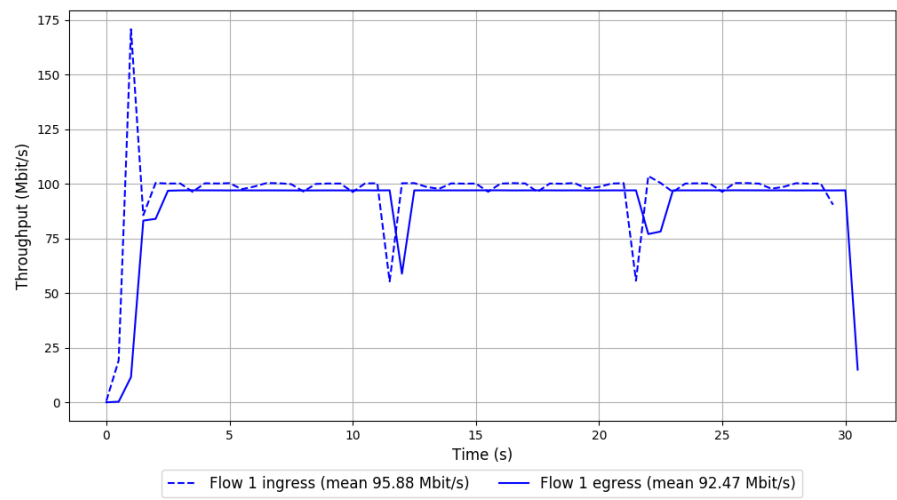
-- Flow 1:

Average throughput: 92.47 Mbit/s

95th percentile per-packet one-way delay: 111.621 ms

Loss rate: 3.47%

Run 4: Report of FillP-Sheep — Data Link



Run 5: Statistics of FillP-Sheep

Start at: 2018-07-03 11:48:21

End at: 2018-07-03 11:48:51

Local clock offset: -4.361 ms

Remote clock offset: 2.721 ms

Below is generated by plot.py at 2018-07-03 13:50:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.47 Mbit/s

95th percentile per-packet one-way delay: 109.848 ms

Loss rate: 3.98%

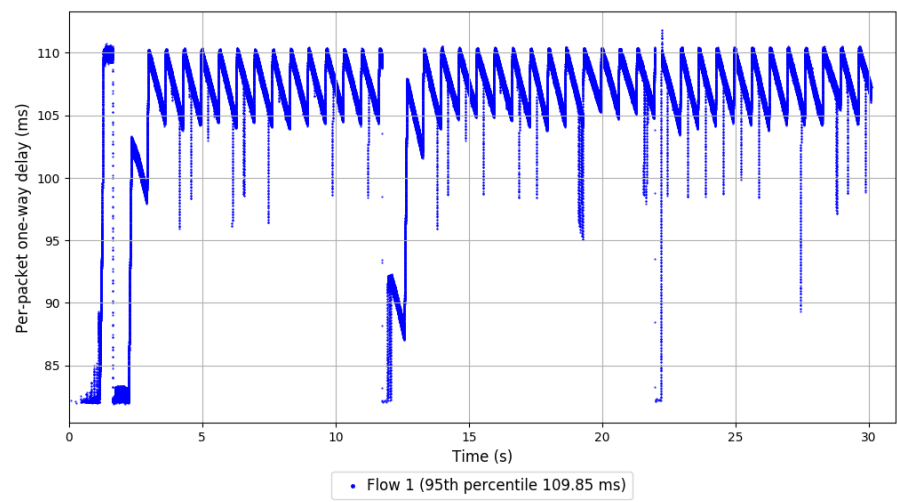
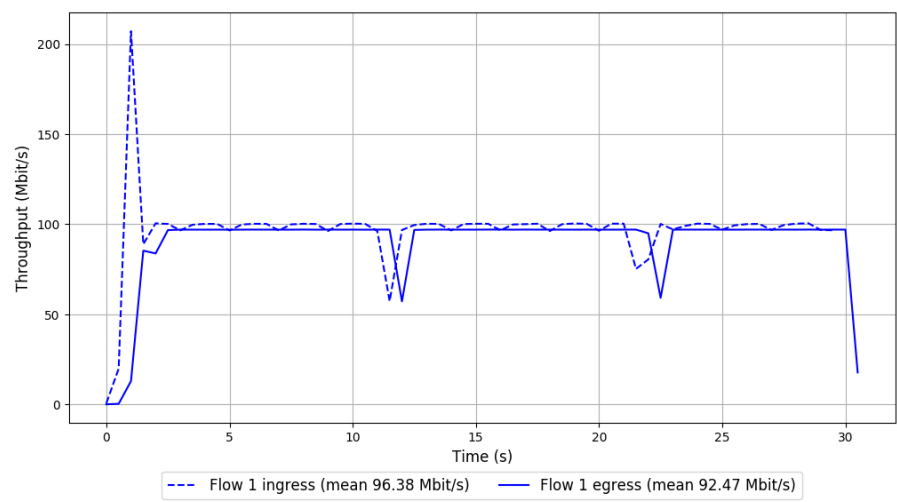
-- Flow 1:

Average throughput: 92.47 Mbit/s

95th percentile per-packet one-way delay: 109.848 ms

Loss rate: 3.98%

Run 5: Report of FillP-Sheep — Data Link



Run 6: Statistics of FillP-Sheep

Start at: 2018-07-03 12:08:14

End at: 2018-07-03 12:08:44

Local clock offset: -1.401 ms

Remote clock offset: 8.248 ms

Below is generated by plot.py at 2018-07-03 13:50:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.39 Mbit/s

95th percentile per-packet one-way delay: 115.006 ms

Loss rate: 3.40%

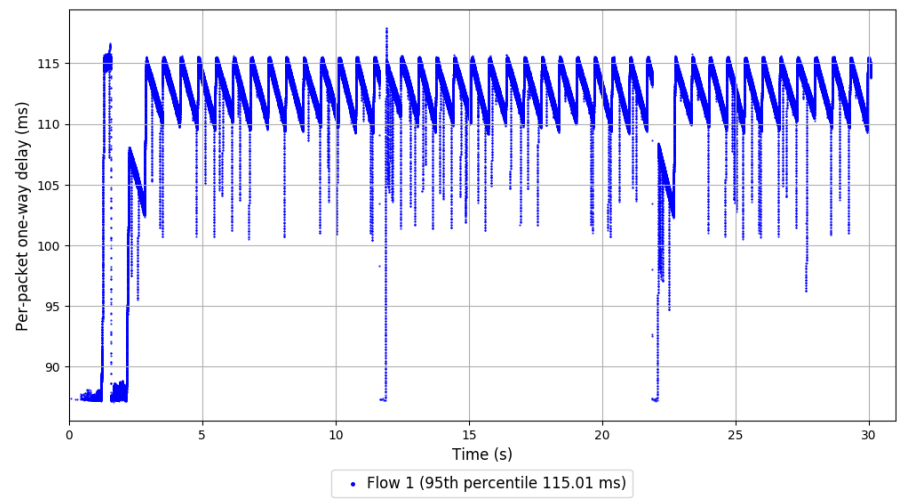
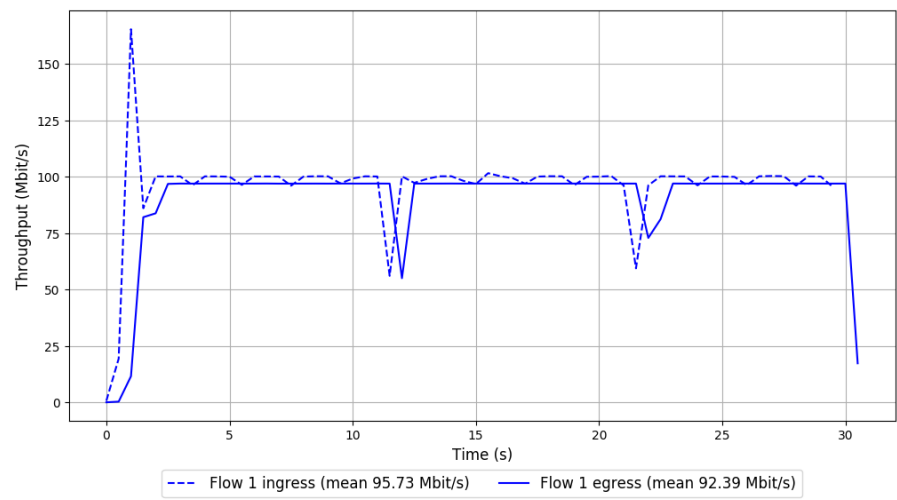
-- Flow 1:

Average throughput: 92.39 Mbit/s

95th percentile per-packet one-way delay: 115.006 ms

Loss rate: 3.40%

Run 6: Report of FillP-Sheep — Data Link

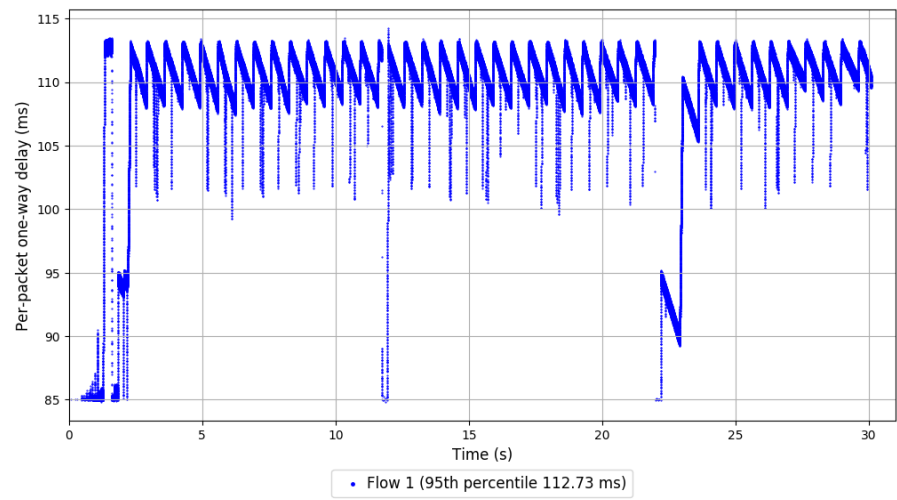
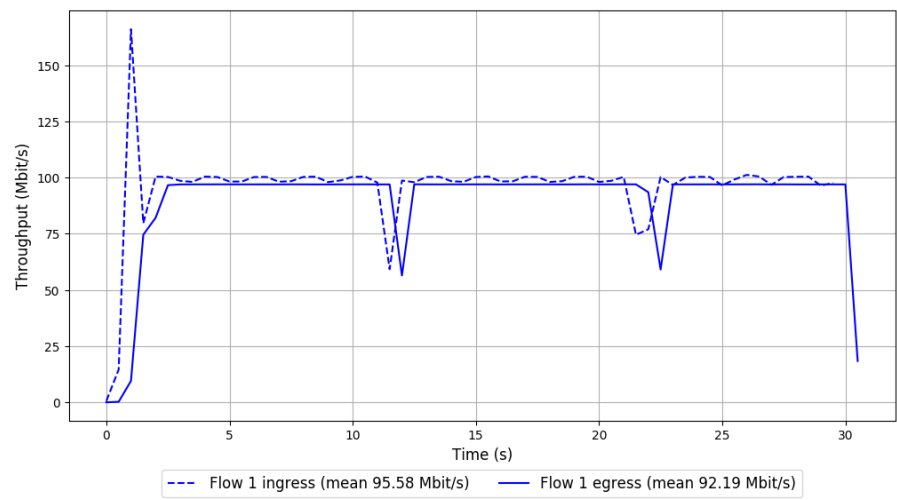


Run 7: Statistics of FillP-Sheep

Start at: 2018-07-03 12:28:16
End at: 2018-07-03 12:28:46
Local clock offset: -2.399 ms
Remote clock offset: 6.512 ms

Below is generated by plot.py at 2018-07-03 13:51:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 92.19 Mbit/s
95th percentile per-packet one-way delay: 112.734 ms
Loss rate: 3.47%
-- Flow 1:
Average throughput: 92.19 Mbit/s
95th percentile per-packet one-way delay: 112.734 ms
Loss rate: 3.47%

Run 7: Report of FillP-Sheep — Data Link



Run 8: Statistics of FillP-Sheep

Start at: 2018-07-03 12:48:11

End at: 2018-07-03 12:48:41

Local clock offset: -1.994 ms

Remote clock offset: 4.857 ms

Below is generated by plot.py at 2018-07-03 13:51:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.34 Mbit/s

95th percentile per-packet one-way delay: 108.349 ms

Loss rate: 3.84%

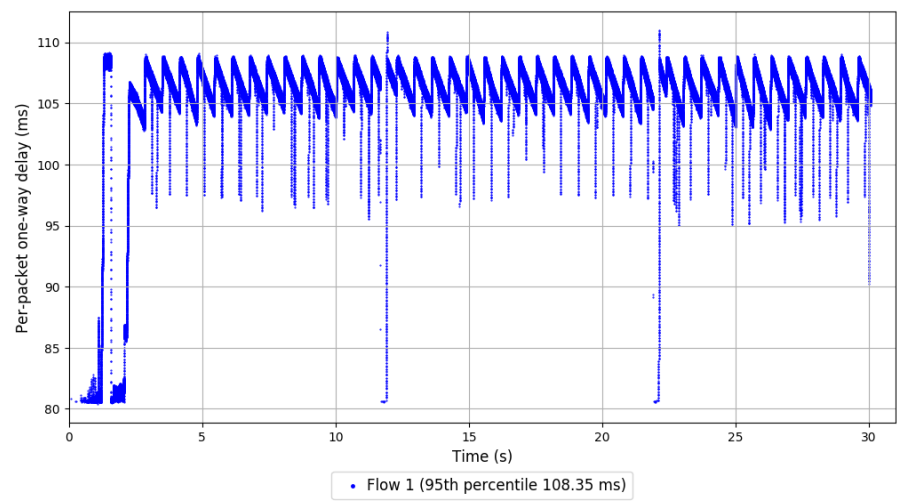
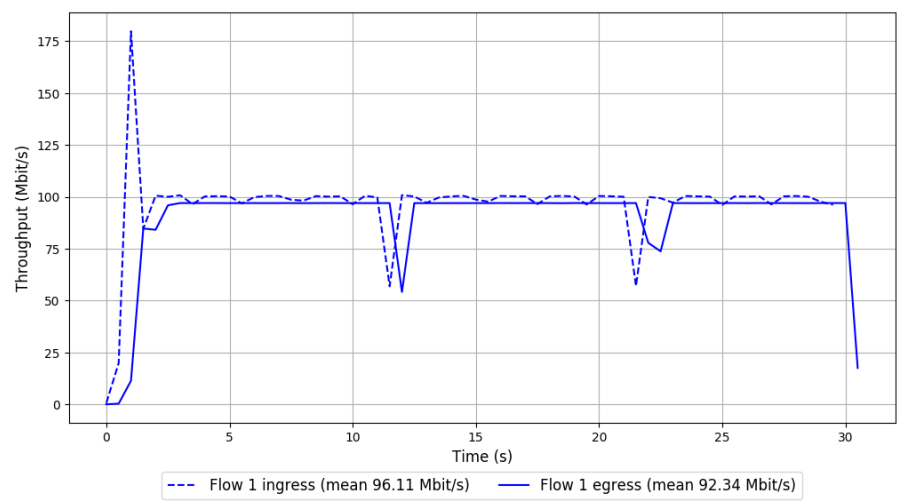
-- Flow 1:

Average throughput: 92.34 Mbit/s

95th percentile per-packet one-way delay: 108.349 ms

Loss rate: 3.84%

Run 8: Report of FillP-Sheep — Data Link



Run 9: Statistics of FillP-Sheep

Start at: 2018-07-03 13:08:02

End at: 2018-07-03 13:08:32

Local clock offset: -1.496 ms

Remote clock offset: 5.352 ms

Below is generated by plot.py at 2018-07-03 13:51:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.33 Mbit/s

95th percentile per-packet one-way delay: 108.842 ms

Loss rate: 3.63%

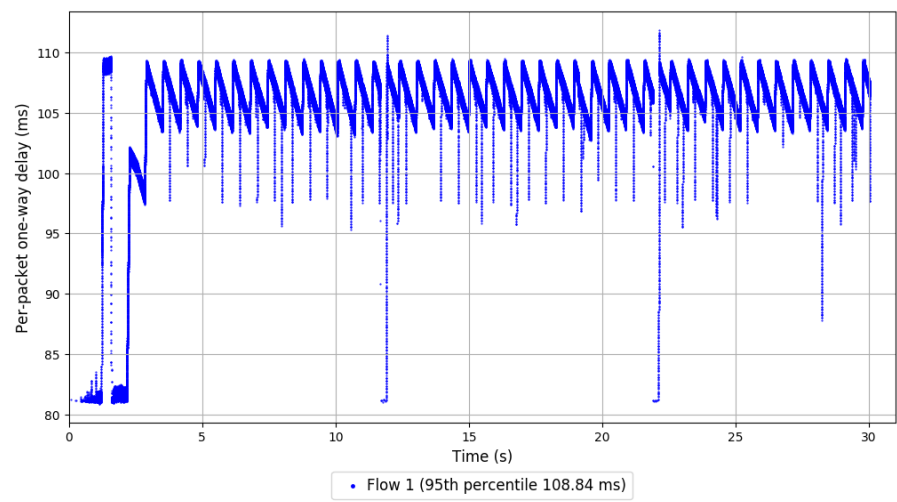
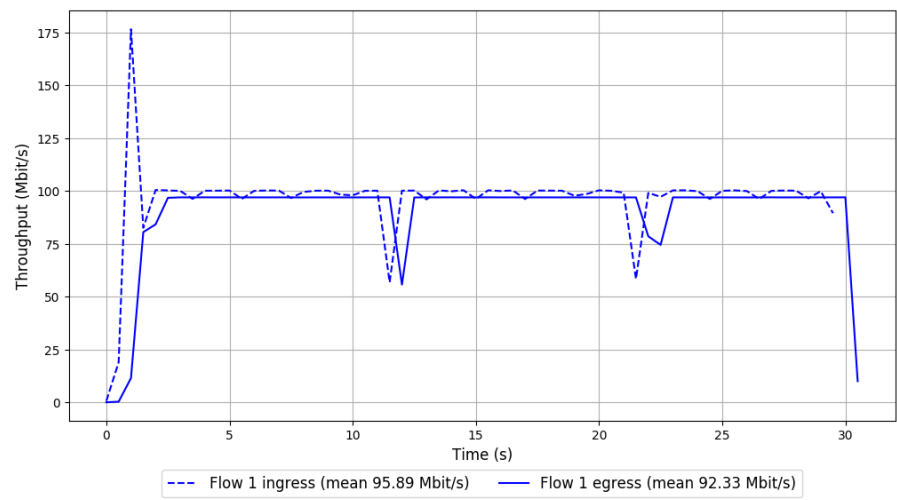
-- Flow 1:

Average throughput: 92.33 Mbit/s

95th percentile per-packet one-way delay: 108.842 ms

Loss rate: 3.63%

Run 9: Report of FillP-Sheep — Data Link

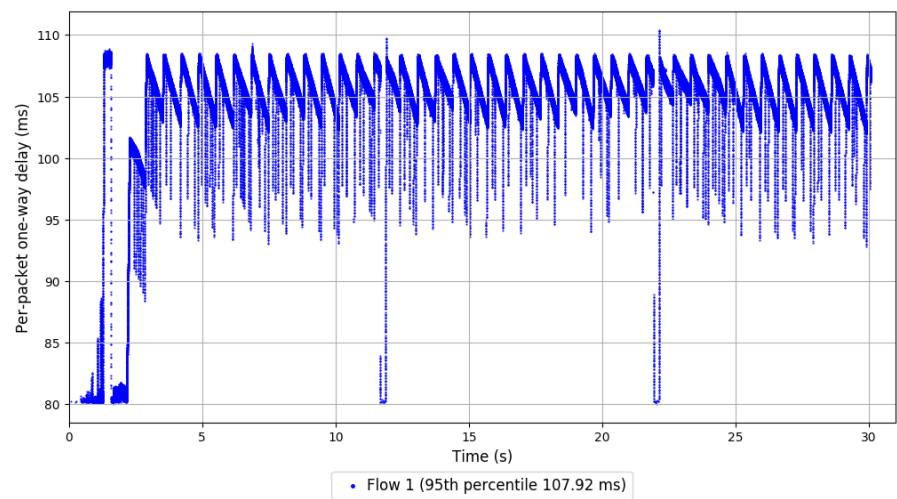
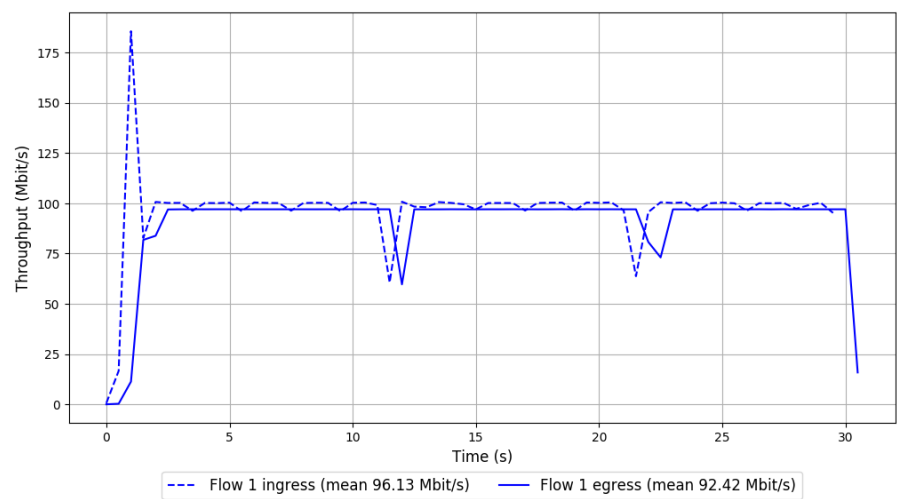


Run 10: Statistics of FillP-Sheep

Start at: 2018-07-03 13:27:57
End at: 2018-07-03 13:28:27
Local clock offset: -1.477 ms
Remote clock offset: 13.547 ms

Below is generated by plot.py at 2018-07-03 13:51:45
Datalink statistics
-- Total of 1 flow:
Average throughput: 92.42 Mbit/s
95th percentile per-packet one-way delay: 107.918 ms
Loss rate: 3.77%
-- Flow 1:
Average throughput: 92.42 Mbit/s
95th percentile per-packet one-way delay: 107.918 ms
Loss rate: 3.77%

Run 10: Report of FillP-Sheep — Data Link

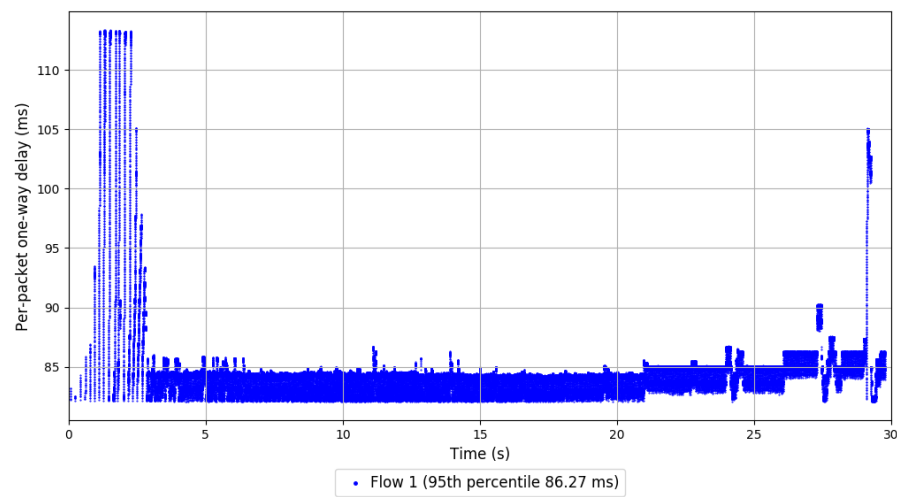
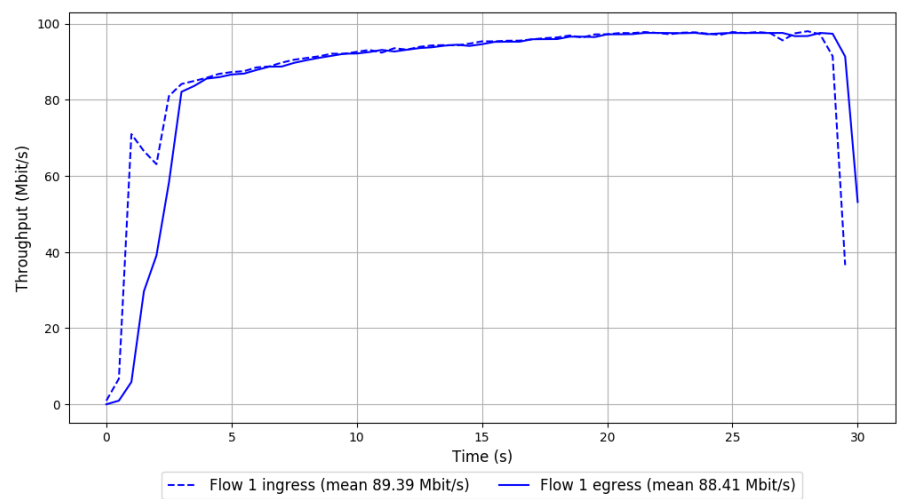


```
Run 1: Statistics of Indigo

Start at: 2018-07-03 10:30:06
End at: 2018-07-03 10:30:36
Local clock offset: -7.189 ms
Remote clock offset: 9.429 ms

# Below is generated by plot.py at 2018-07-03 13:51:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.41 Mbit/s
95th percentile per-packet one-way delay: 86.265 ms
Loss rate: 1.08%
-- Flow 1:
Average throughput: 88.41 Mbit/s
95th percentile per-packet one-way delay: 86.265 ms
Loss rate: 1.08%
```

Run 1: Report of Indigo — Data Link

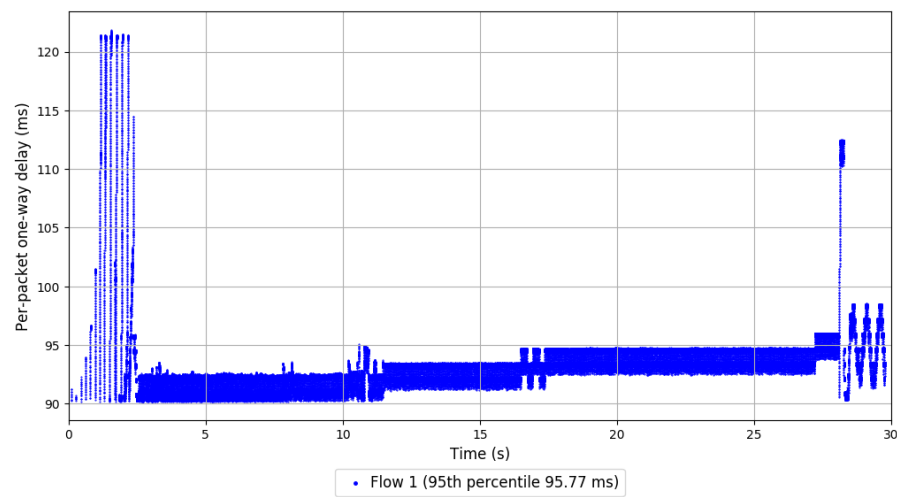
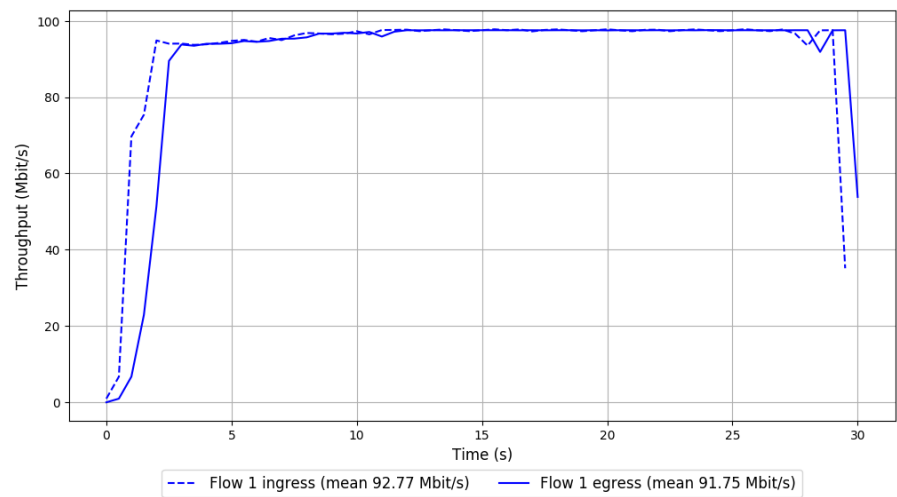


Run 2: Statistics of Indigo

Start at: 2018-07-03 10:49:56
End at: 2018-07-03 10:50:26
Local clock offset: -3.68 ms
Remote clock offset: 14.177 ms

Below is generated by plot.py at 2018-07-03 13:51:45
Datalink statistics
-- Total of 1 flow:
Average throughput: 91.75 Mbit/s
95th percentile per-packet one-way delay: 95.774 ms
Loss rate: 1.10%
-- Flow 1:
Average throughput: 91.75 Mbit/s
95th percentile per-packet one-way delay: 95.774 ms
Loss rate: 1.10%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-07-03 11:09:46

End at: 2018-07-03 11:10:16

Local clock offset: -1.296 ms

Remote clock offset: 2.976 ms

Below is generated by plot.py at 2018-07-03 13:51:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.87 Mbit/s

95th percentile per-packet one-way delay: 85.971 ms

Loss rate: 1.23%

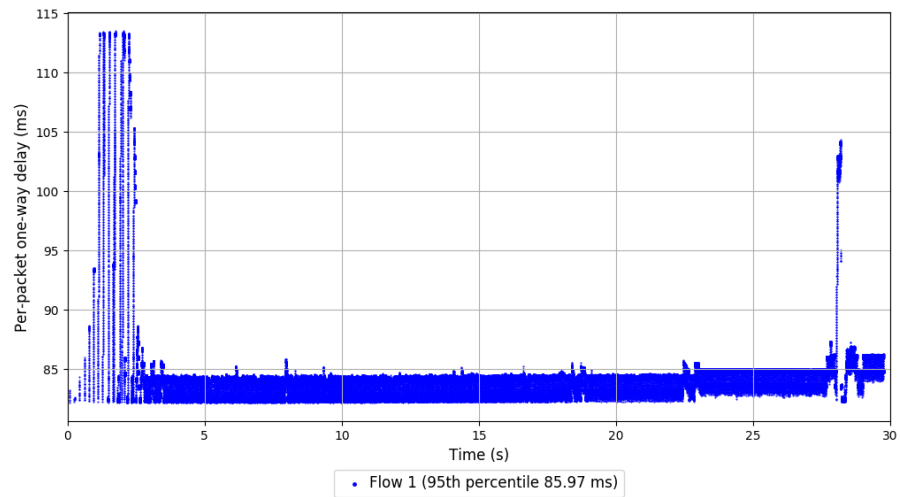
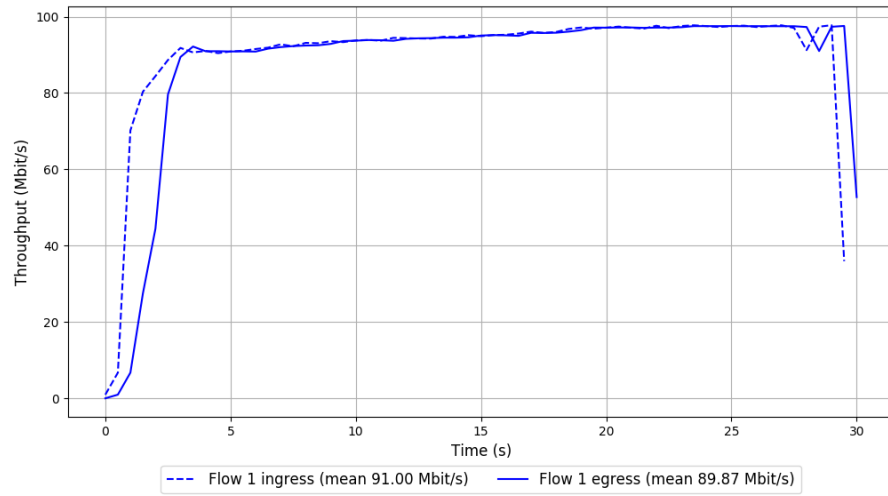
-- Flow 1:

Average throughput: 89.87 Mbit/s

95th percentile per-packet one-way delay: 85.971 ms

Loss rate: 1.23%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-07-03 11:29:38

End at: 2018-07-03 11:30:08

Local clock offset: -7.395 ms

Remote clock offset: 0.984 ms

Below is generated by plot.py at 2018-07-03 13:52:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.46 Mbit/s

95th percentile per-packet one-way delay: 84.357 ms

Loss rate: 0.77%

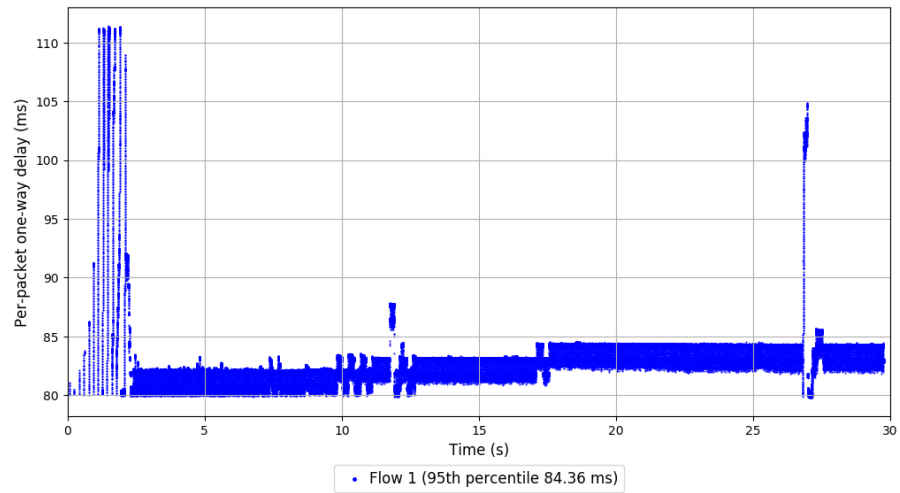
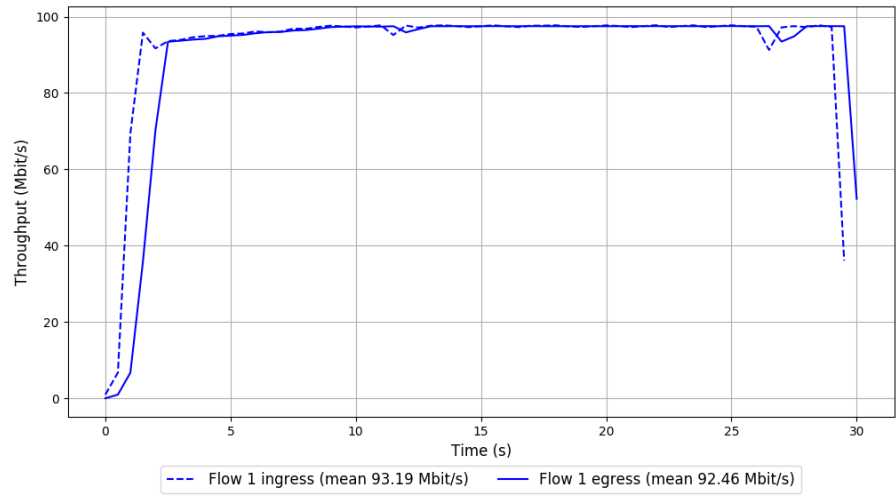
-- Flow 1:

Average throughput: 92.46 Mbit/s

95th percentile per-packet one-way delay: 84.357 ms

Loss rate: 0.77%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-07-03 11:49:31

End at: 2018-07-03 11:50:01

Local clock offset: -4.11 ms

Remote clock offset: 1.609 ms

Below is generated by plot.py at 2018-07-03 13:52:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.30 Mbit/s

95th percentile per-packet one-way delay: 85.700 ms

Loss rate: 0.77%

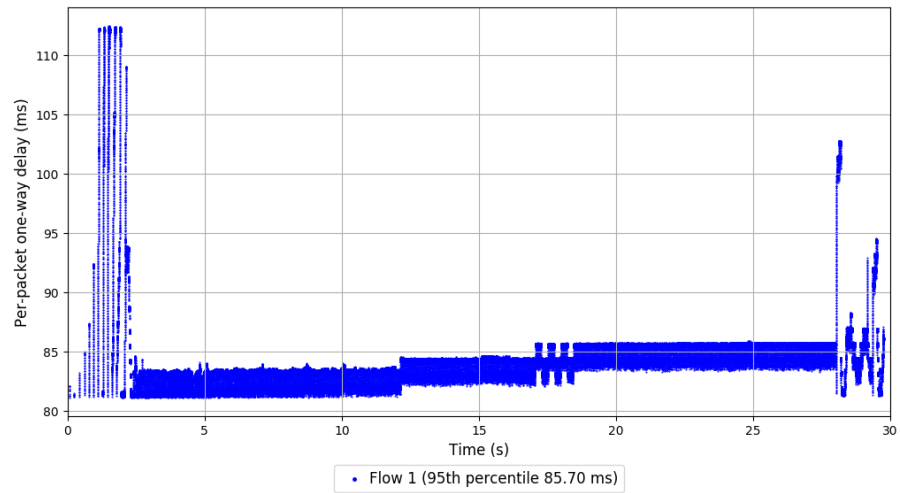
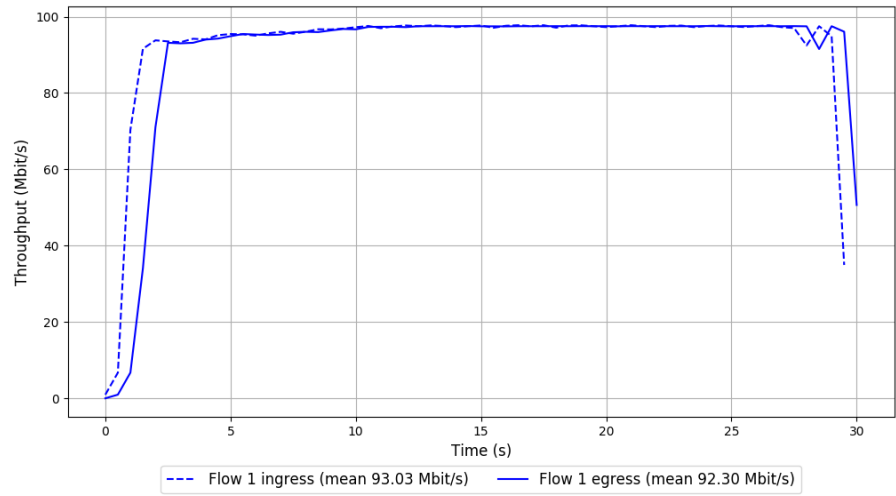
-- Flow 1:

Average throughput: 92.30 Mbit/s

95th percentile per-packet one-way delay: 85.700 ms

Loss rate: 0.77%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2018-07-03 12:09:25

End at: 2018-07-03 12:09:55

Local clock offset: -1.324 ms

Remote clock offset: 7.165 ms

Below is generated by plot.py at 2018-07-03 13:52:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.73 Mbit/s

95th percentile per-packet one-way delay: 102.110 ms

Loss rate: 1.36%

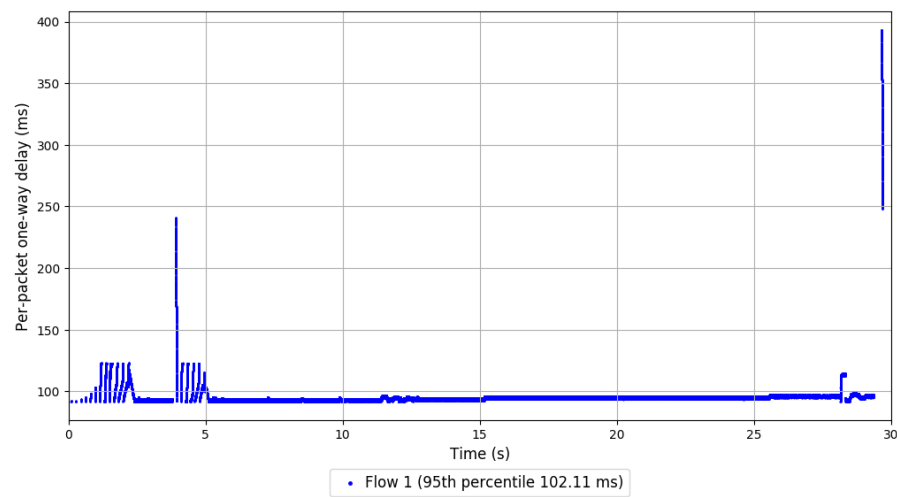
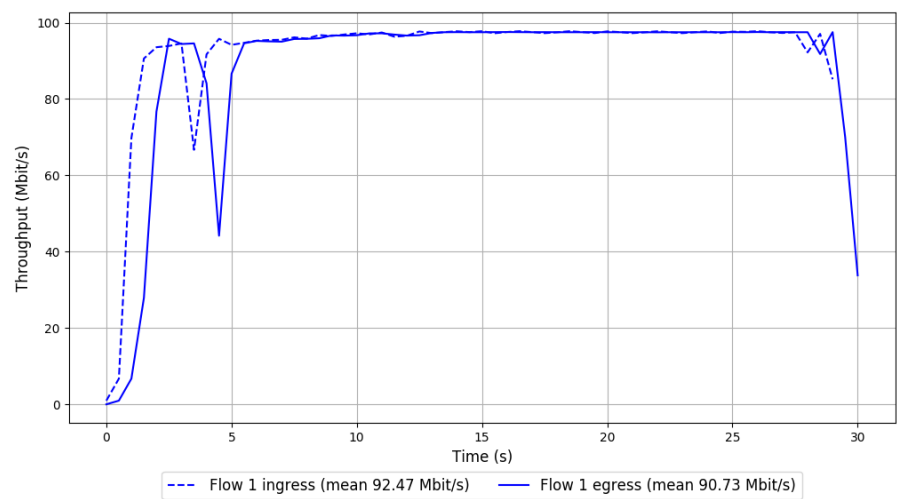
-- Flow 1:

Average throughput: 90.73 Mbit/s

95th percentile per-packet one-way delay: 102.110 ms

Loss rate: 1.36%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2018-07-03 12:29:27

End at: 2018-07-03 12:29:57

Local clock offset: -2.394 ms

Remote clock offset: 7.595 ms

Below is generated by plot.py at 2018-07-03 13:52:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.22 Mbit/s

95th percentile per-packet one-way delay: 88.491 ms

Loss rate: 0.75%

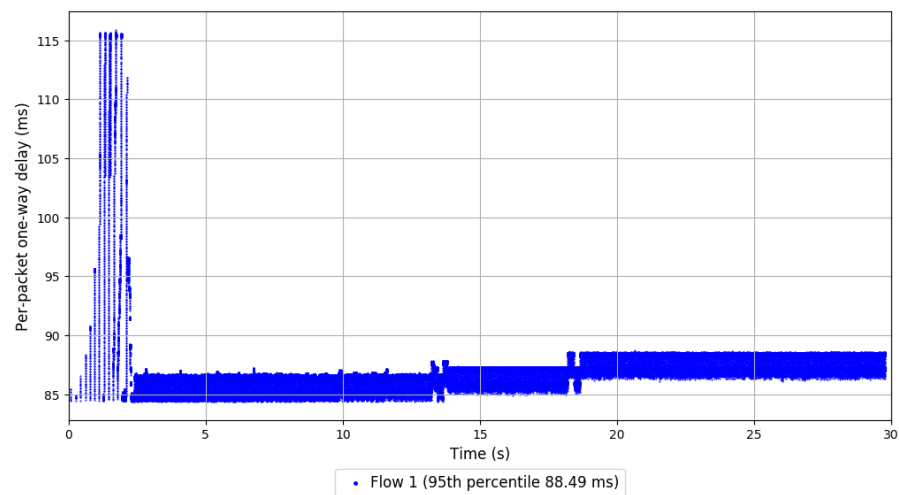
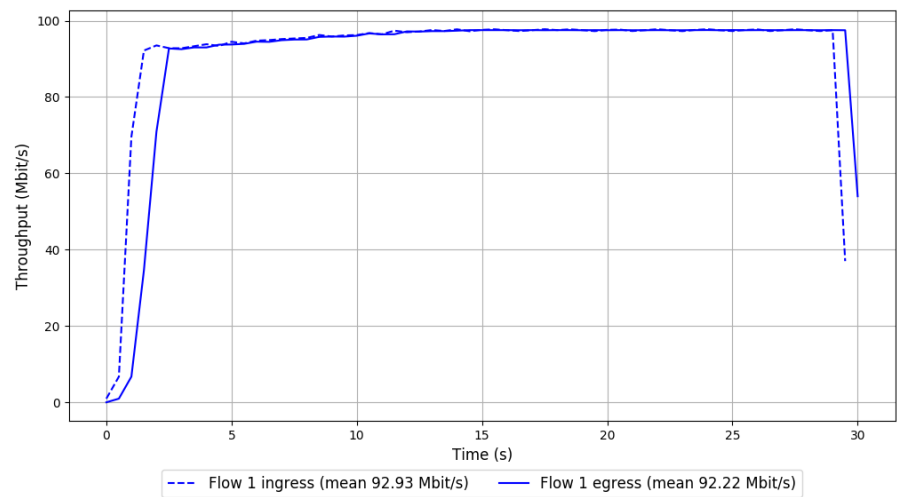
-- Flow 1:

Average throughput: 92.22 Mbit/s

95th percentile per-packet one-way delay: 88.491 ms

Loss rate: 0.75%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2018-07-03 12:49:21

End at: 2018-07-03 12:49:51

Local clock offset: -1.976 ms

Remote clock offset: 7.697 ms

Below is generated by plot.py at 2018-07-03 13:52:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.79 Mbit/s

95th percentile per-packet one-way delay: 90.057 ms

Loss rate: 0.74%

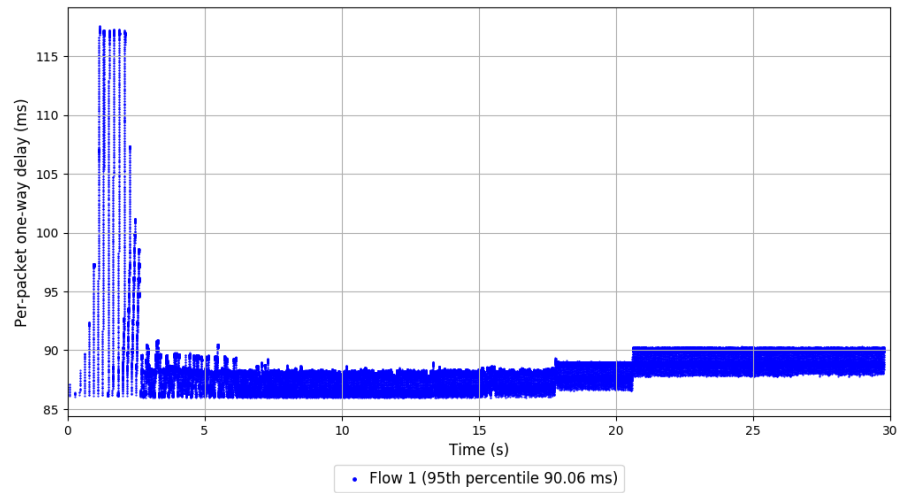
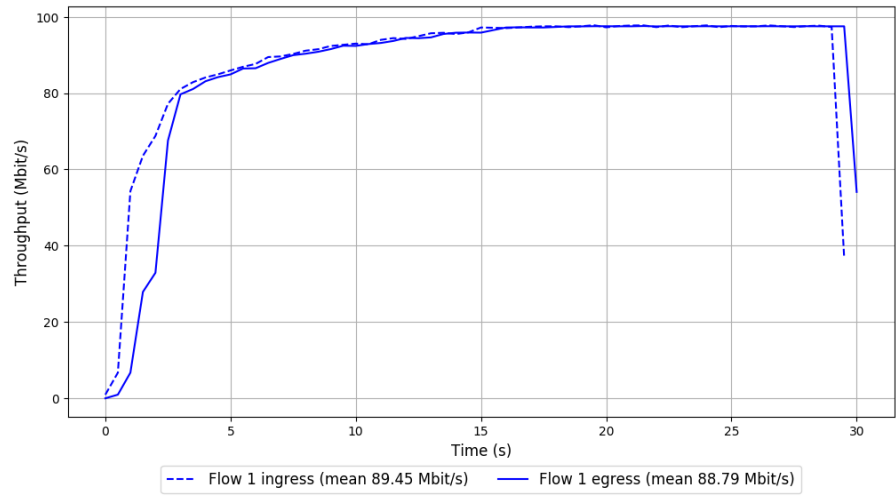
-- Flow 1:

Average throughput: 88.79 Mbit/s

95th percentile per-packet one-way delay: 90.057 ms

Loss rate: 0.74%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2018-07-03 13:09:12

End at: 2018-07-03 13:09:43

Local clock offset: -1.453 ms

Remote clock offset: 8.135 ms

Below is generated by plot.py at 2018-07-03 13:52:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.34 Mbit/s

95th percentile per-packet one-way delay: 93.580 ms

Loss rate: 0.77%

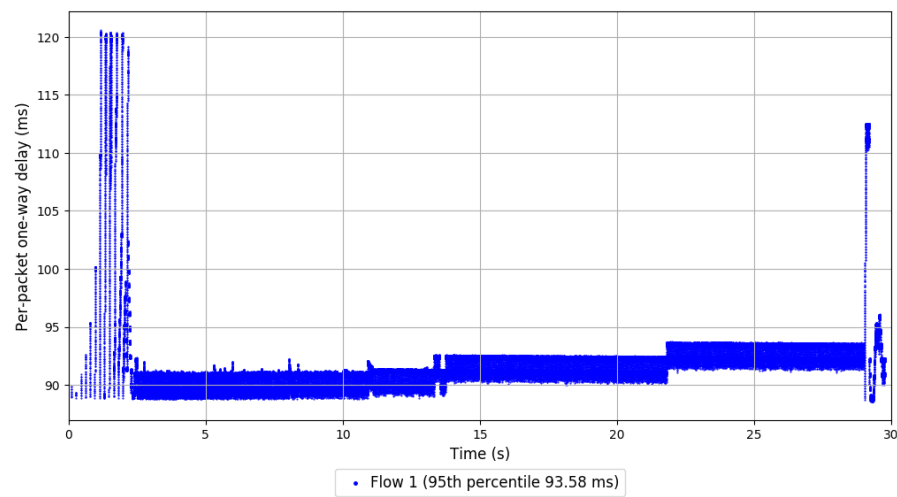
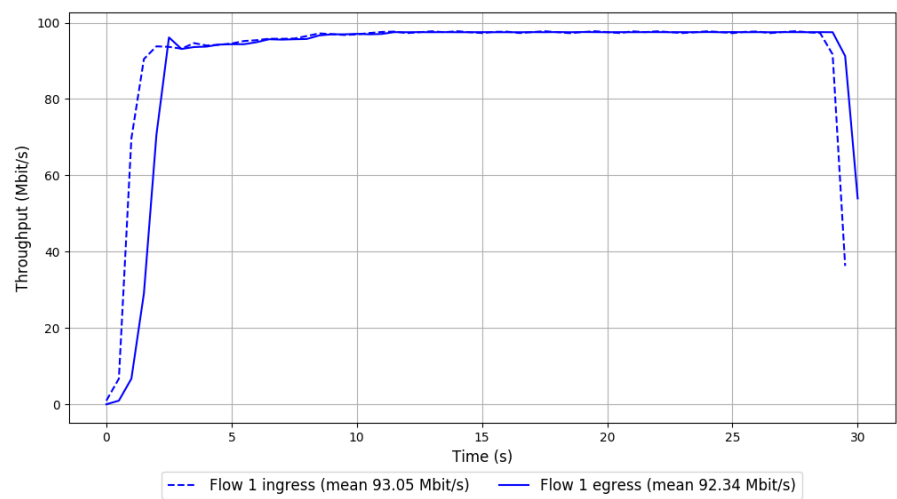
-- Flow 1:

Average throughput: 92.34 Mbit/s

95th percentile per-packet one-way delay: 93.580 ms

Loss rate: 0.77%

Run 9: Report of Indigo — Data Link

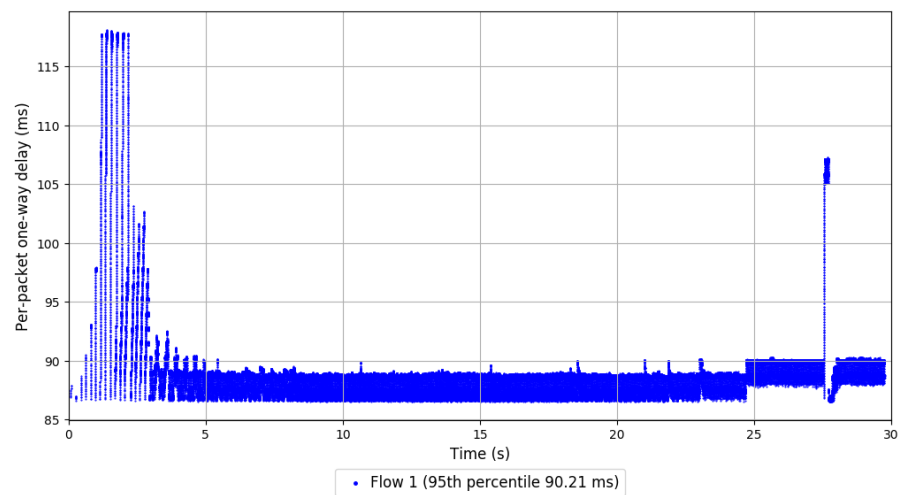
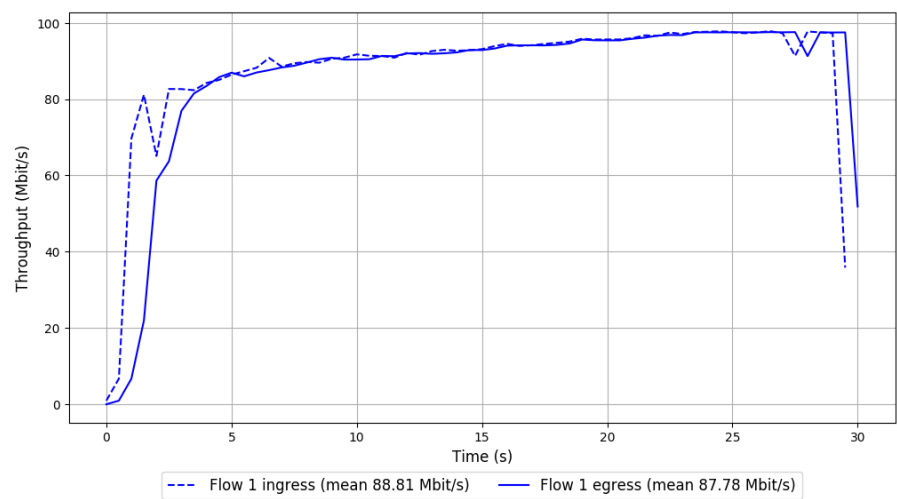


Run 10: Statistics of Indigo

Start at: 2018-07-03 13:29:07
End at: 2018-07-03 13:29:37
Local clock offset: -1.445 ms
Remote clock offset: 12.648 ms

Below is generated by plot.py at 2018-07-03 13:52:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 87.78 Mbit/s
95th percentile per-packet one-way delay: 90.213 ms
Loss rate: 1.18%
-- Flow 1:
Average throughput: 87.78 Mbit/s
95th percentile per-packet one-way delay: 90.213 ms
Loss rate: 1.18%

Run 10: Report of Indigo — Data Link

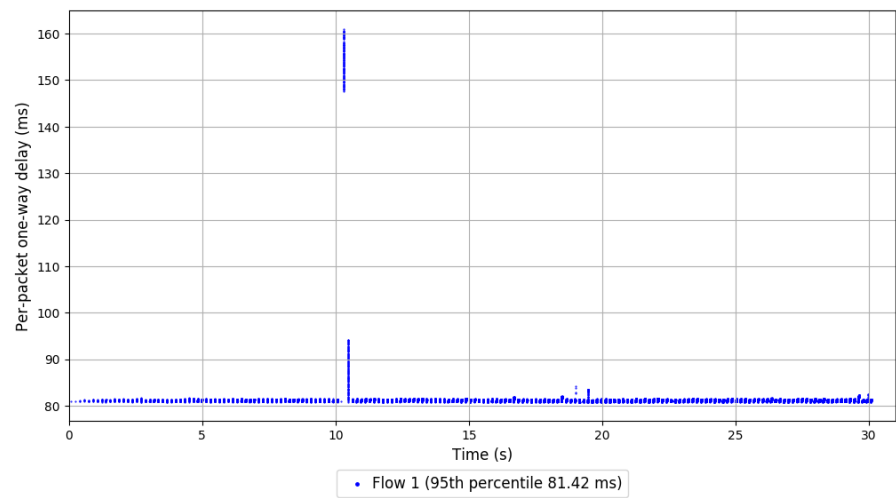
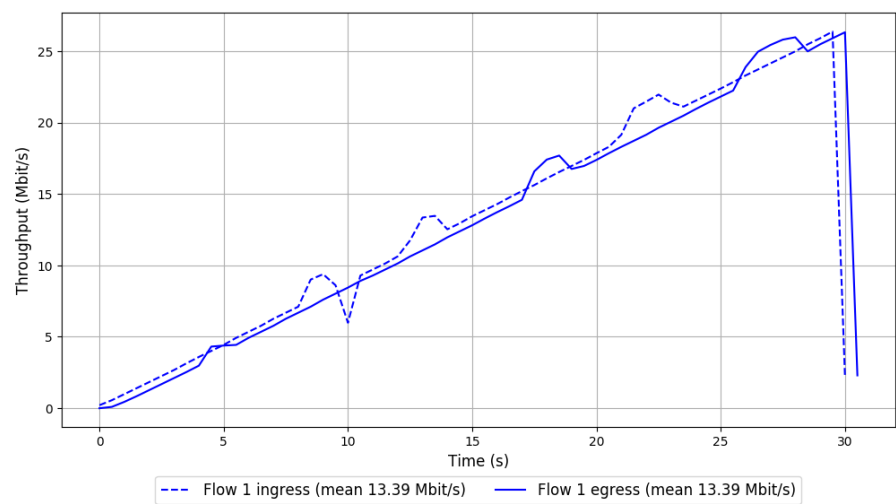


```
Run 1: Statistics of LEDBAT

Start at: 2018-07-03 10:32:25
End at: 2018-07-03 10:32:55
Local clock offset: -7.39 ms
Remote clock offset: 9.348 ms

# Below is generated by plot.py at 2018-07-03 13:52:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 13.39 Mbit/s
95th percentile per-packet one-way delay: 81.423 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 13.39 Mbit/s
95th percentile per-packet one-way delay: 81.423 ms
Loss rate: 0.00%
```

Run 1: Report of LEDBAT — Data Link

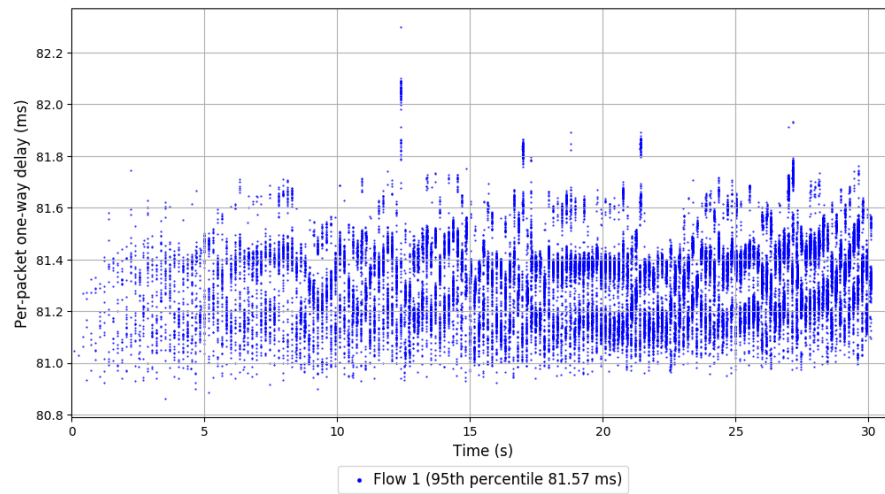
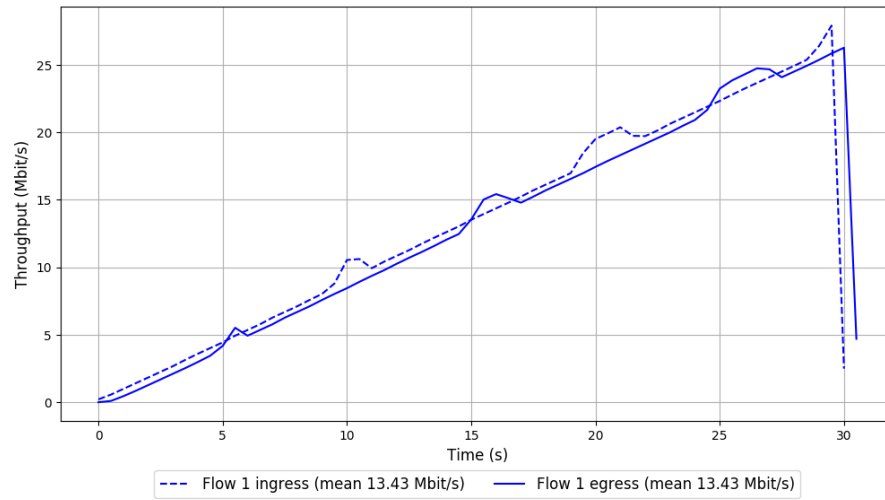


```
Run 2: Statistics of LEDBAT

Start at: 2018-07-03 10:52:15
End at: 2018-07-03 10:52:45
Local clock offset: -3.177 ms
Remote clock offset: 9.075 ms

# Below is generated by plot.py at 2018-07-03 13:52:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 13.43 Mbit/s
95th percentile per-packet one-way delay: 81.568 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 13.43 Mbit/s
95th percentile per-packet one-way delay: 81.568 ms
Loss rate: 0.00%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-07-03 11:12:05

End at: 2018-07-03 11:12:35

Local clock offset: -2.249 ms

Remote clock offset: 5.293 ms

Below is generated by plot.py at 2018-07-03 13:52:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.50 Mbit/s

95th percentile per-packet one-way delay: 84.465 ms

Loss rate: 0.00%

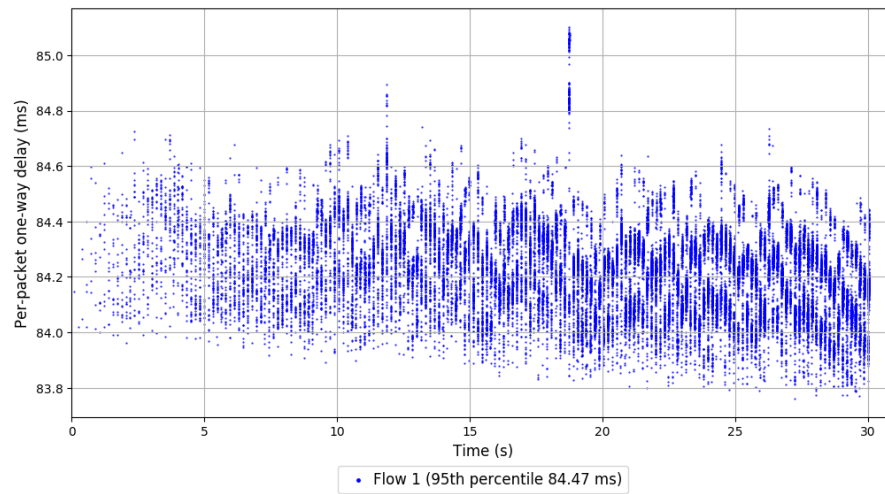
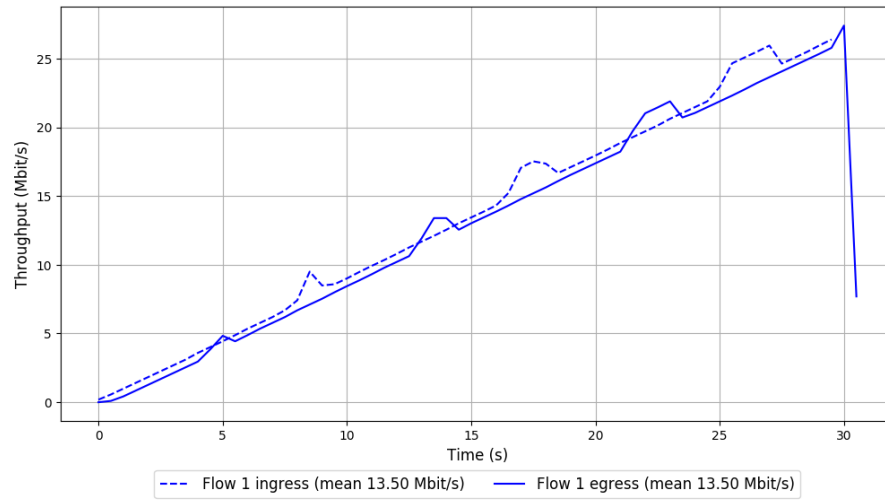
-- Flow 1:

Average throughput: 13.50 Mbit/s

95th percentile per-packet one-way delay: 84.465 ms

Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-07-03 11:31:57

End at: 2018-07-03 11:32:27

Local clock offset: -7.696 ms

Remote clock offset: 6.693 ms

Below is generated by plot.py at 2018-07-03 13:52:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.66 Mbit/s

95th percentile per-packet one-way delay: 86.077 ms

Loss rate: 0.00%

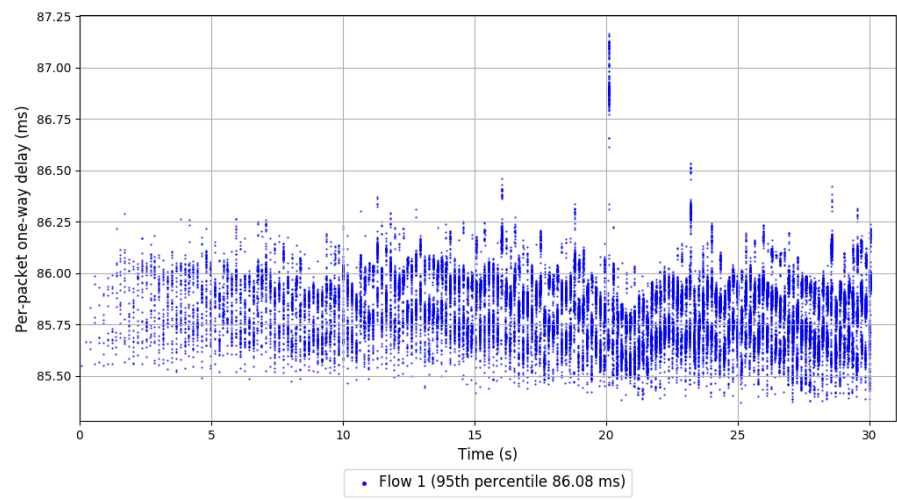
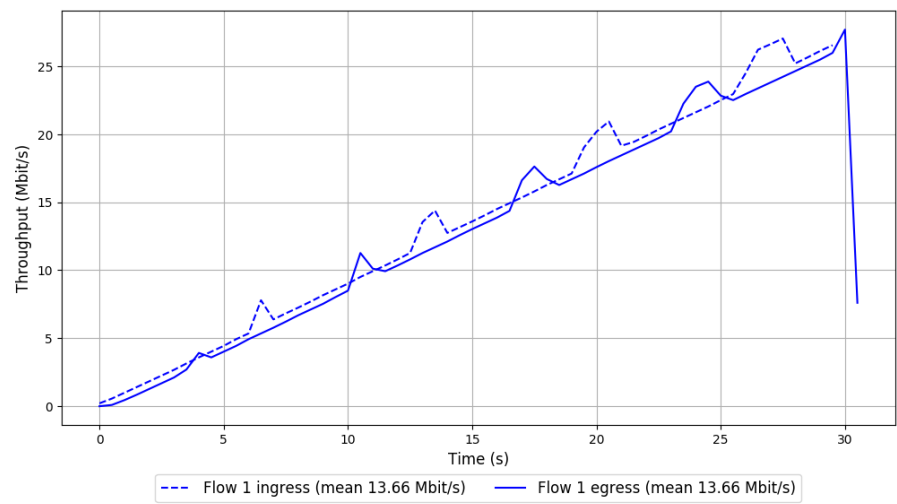
-- Flow 1:

Average throughput: 13.66 Mbit/s

95th percentile per-packet one-way delay: 86.077 ms

Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-07-03 11:51:51

End at: 2018-07-03 11:52:21

Local clock offset: -3.412 ms

Remote clock offset: 7.608 ms

Below is generated by plot.py at 2018-07-03 13:52:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.25 Mbit/s

95th percentile per-packet one-way delay: 86.018 ms

Loss rate: 0.00%

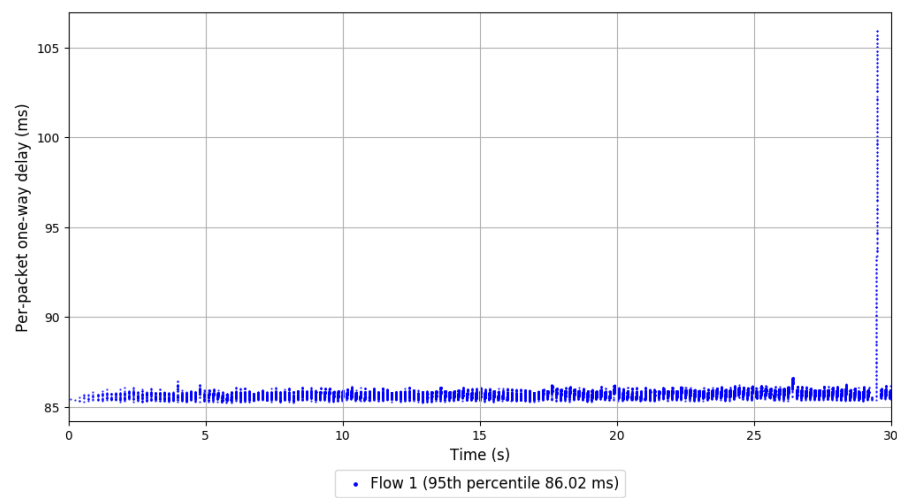
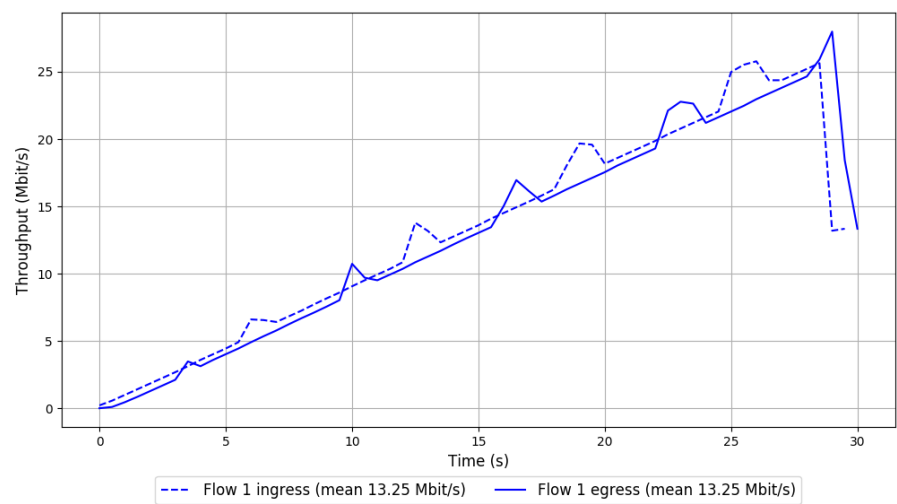
-- Flow 1:

Average throughput: 13.25 Mbit/s

95th percentile per-packet one-way delay: 86.018 ms

Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-07-03 12:11:45

End at: 2018-07-03 12:12:15

Local clock offset: -1.458 ms

Remote clock offset: 8.3 ms

Below is generated by plot.py at 2018-07-03 13:52:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.91 Mbit/s

95th percentile per-packet one-way delay: 88.560 ms

Loss rate: 0.00%

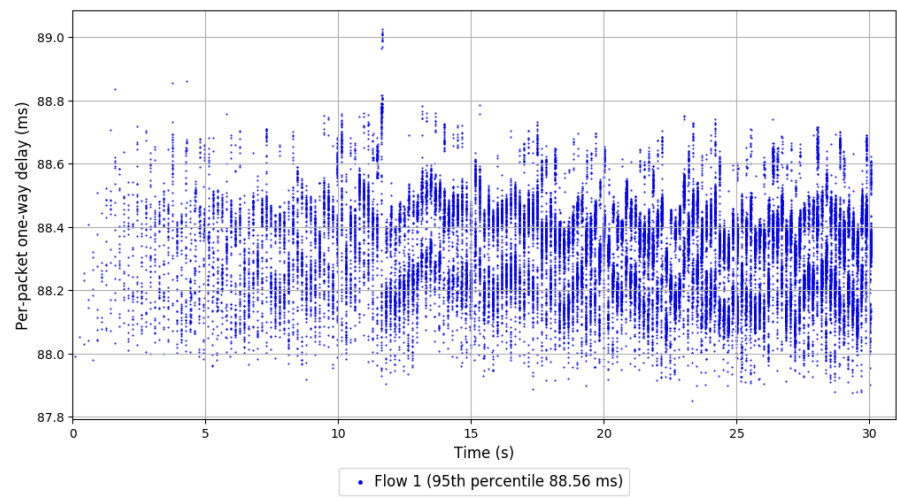
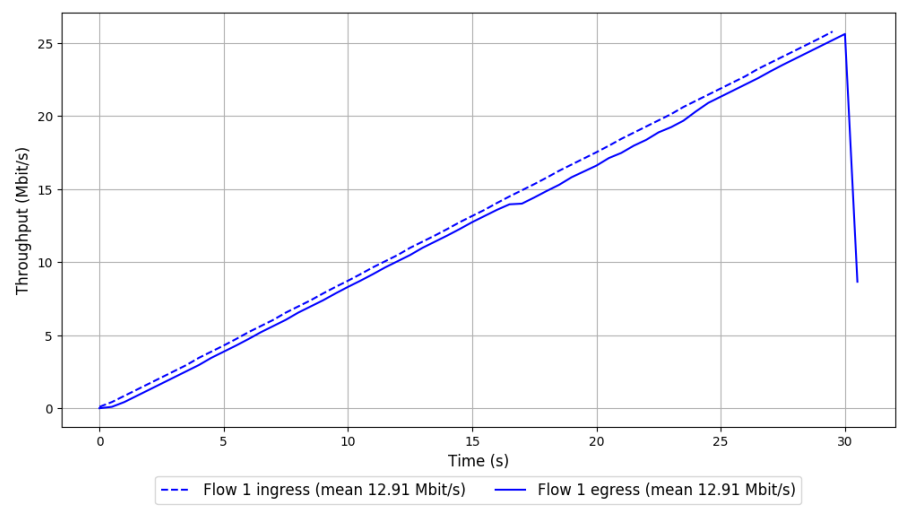
-- Flow 1:

Average throughput: 12.91 Mbit/s

95th percentile per-packet one-way delay: 88.560 ms

Loss rate: 0.00%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-07-03 12:31:47

End at: 2018-07-03 12:32:17

Local clock offset: -2.421 ms

Remote clock offset: 6.521 ms

Below is generated by plot.py at 2018-07-03 13:52:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.06 Mbit/s

95th percentile per-packet one-way delay: 85.620 ms

Loss rate: 0.00%

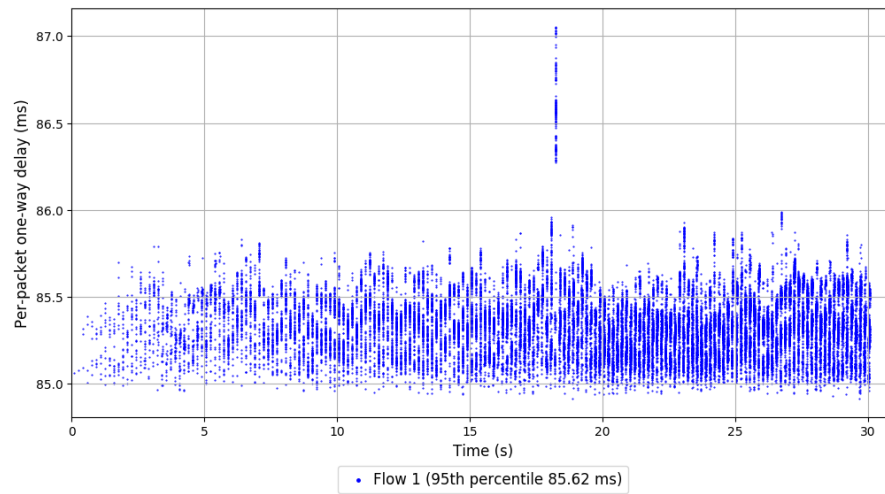
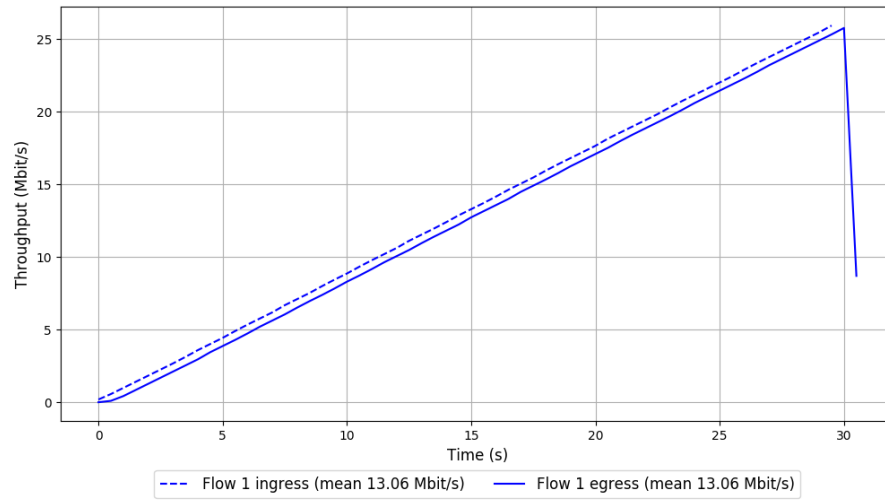
-- Flow 1:

Average throughput: 13.06 Mbit/s

95th percentile per-packet one-way delay: 85.620 ms

Loss rate: 0.00%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-07-03 12:51:40

End at: 2018-07-03 12:52:10

Local clock offset: -1.895 ms

Remote clock offset: 7.936 ms

Below is generated by plot.py at 2018-07-03 13:52:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.94 Mbit/s

95th percentile per-packet one-way delay: 86.150 ms

Loss rate: 0.01%

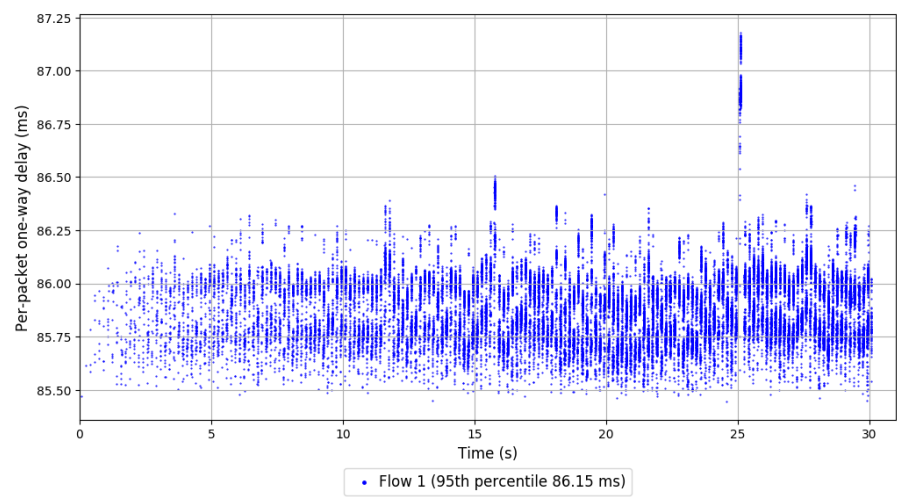
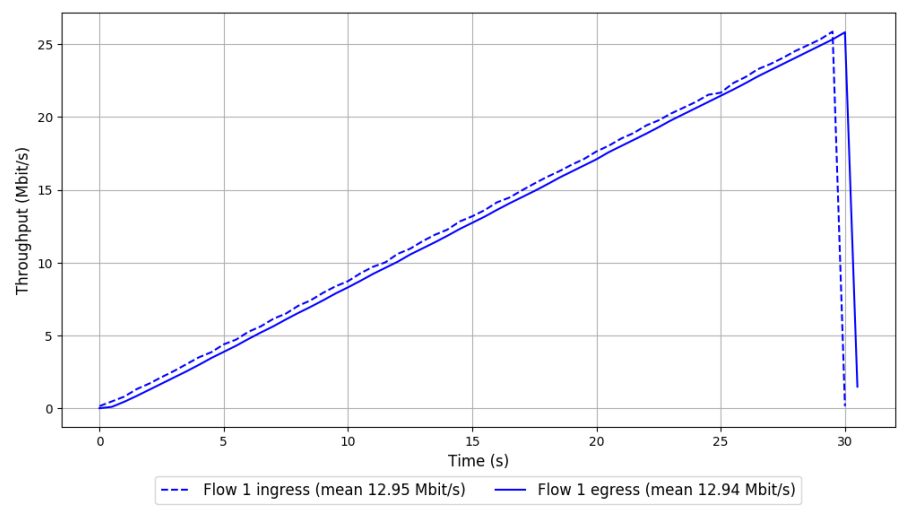
-- Flow 1:

Average throughput: 12.94 Mbit/s

95th percentile per-packet one-way delay: 86.150 ms

Loss rate: 0.01%

Run 8: Report of LEDBAT — Data Link

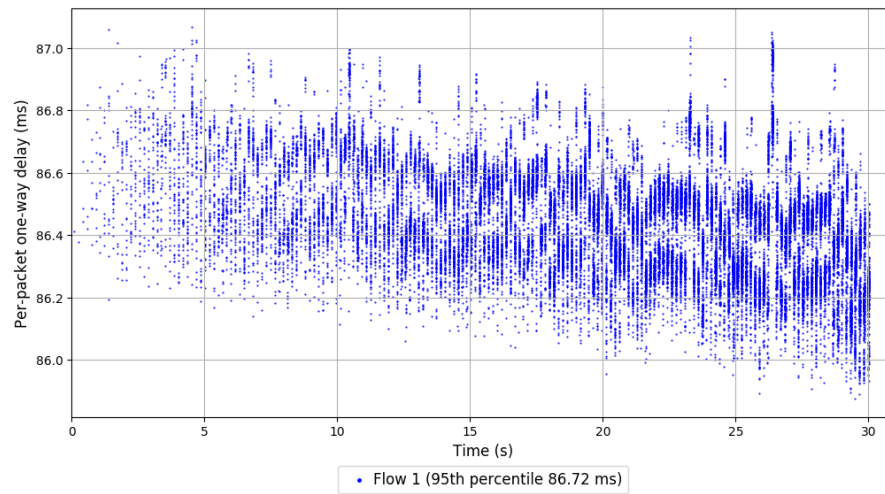
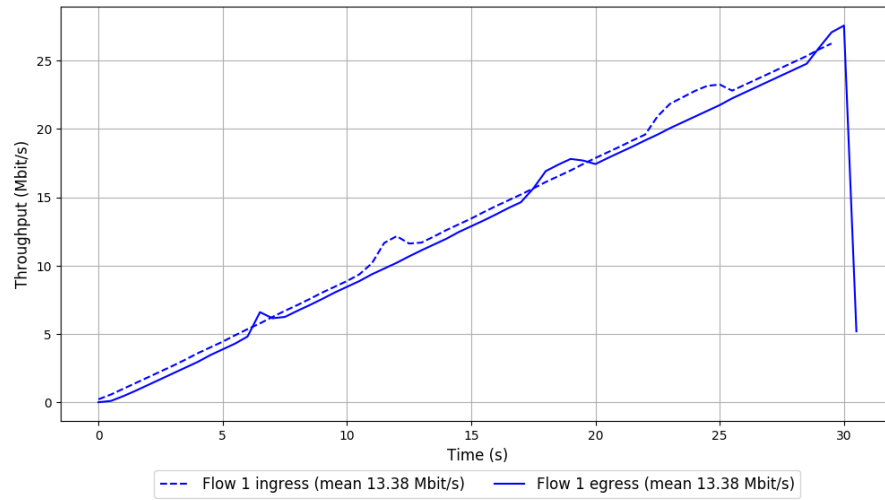


Run 9: Statistics of LEDBAT

Start at: 2018-07-03 13:11:32
End at: 2018-07-03 13:12:02
Local clock offset: -1.46 ms
Remote clock offset: 10.761 ms

Below is generated by plot.py at 2018-07-03 13:52:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 13.38 Mbit/s
95th percentile per-packet one-way delay: 86.724 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 13.38 Mbit/s
95th percentile per-packet one-way delay: 86.724 ms
Loss rate: 0.00%

Run 9: Report of LEDBAT — Data Link

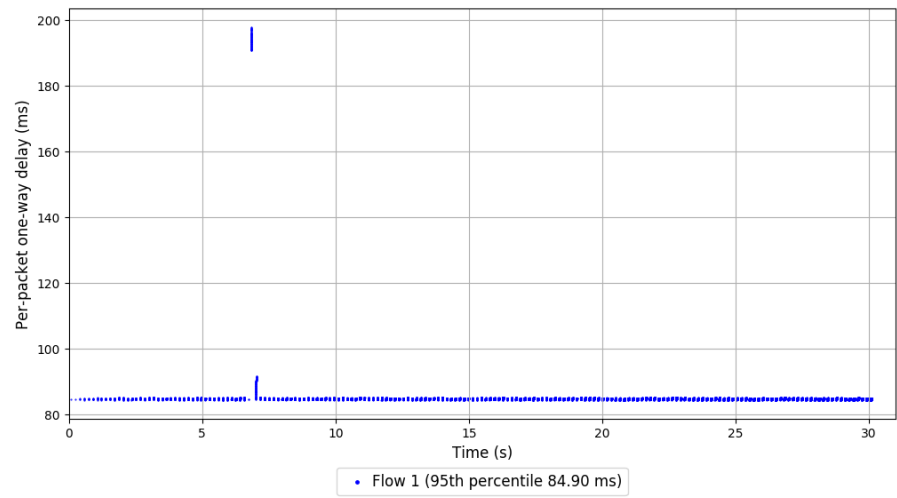
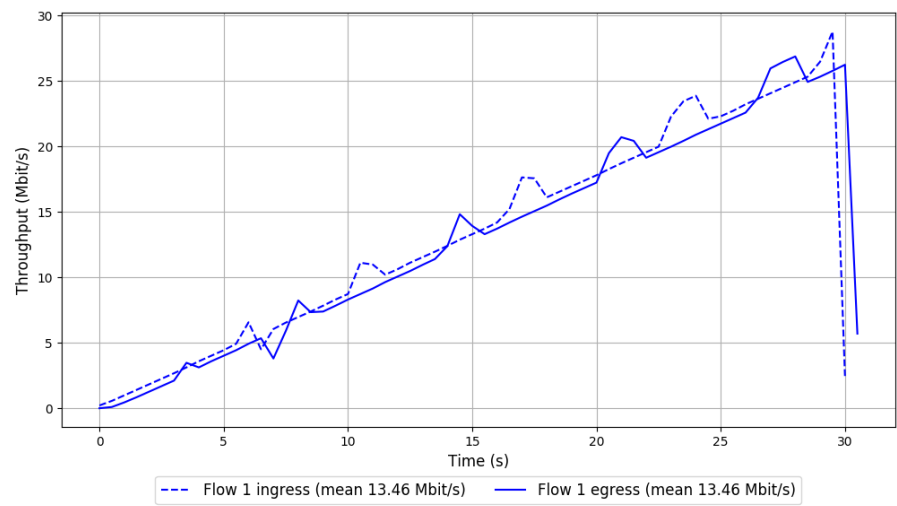


Run 10: Statistics of LEDBAT

Start at: 2018-07-03 13:31:26
End at: 2018-07-03 13:31:56
Local clock offset: -1.413 ms
Remote clock offset: 18.245 ms

Below is generated by plot.py at 2018-07-03 13:52:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 13.46 Mbit/s
95th percentile per-packet one-way delay: 84.904 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 13.46 Mbit/s
95th percentile per-packet one-way delay: 84.904 ms
Loss rate: 0.00%

Run 10: Report of LEDBAT — Data Link

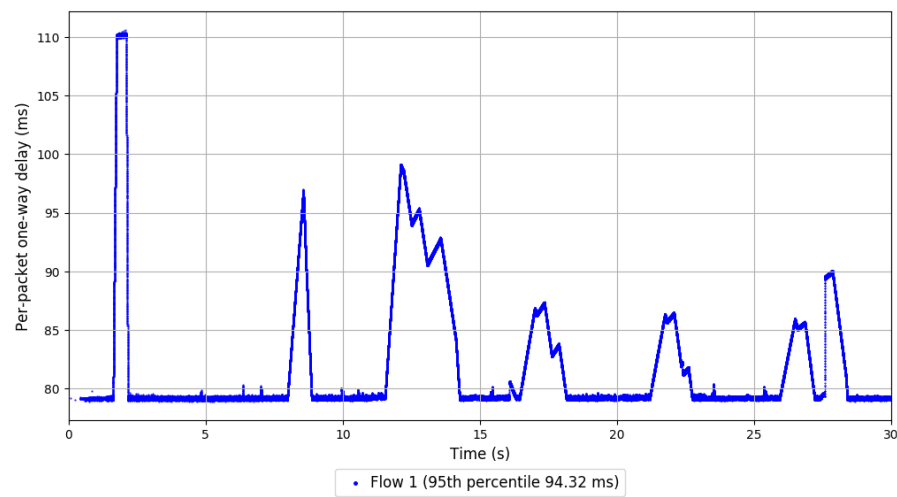
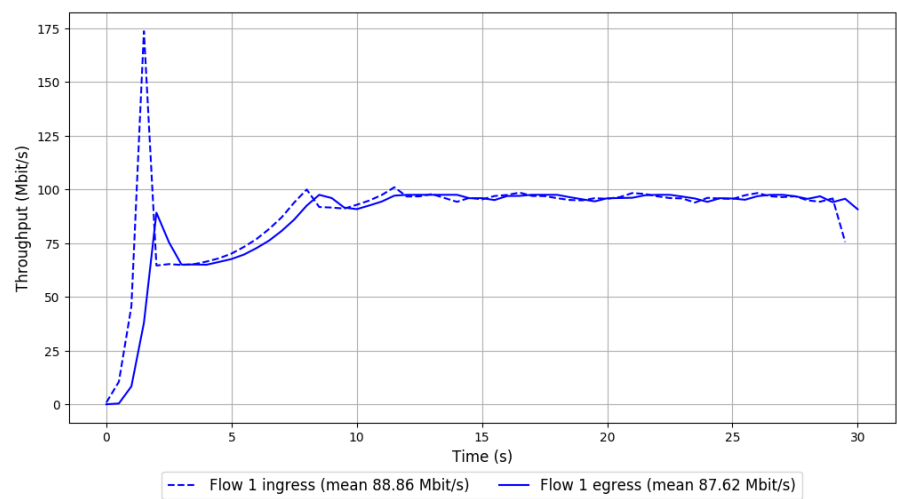


```
Run 1: Statistics of PCC-Allegro

Start at: 2018-07-03 10:34:44
End at: 2018-07-03 10:35:14
Local clock offset: -7.599 ms
Remote clock offset: 9.328 ms

# Below is generated by plot.py at 2018-07-03 13:53:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.62 Mbit/s
95th percentile per-packet one-way delay: 94.320 ms
Loss rate: 1.39%
-- Flow 1:
Average throughput: 87.62 Mbit/s
95th percentile per-packet one-way delay: 94.320 ms
Loss rate: 1.39%
```

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-07-03 10:54:35

End at: 2018-07-03 10:55:05

Local clock offset: -2.728 ms

Remote clock offset: 11.772 ms

Below is generated by plot.py at 2018-07-03 13:53:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.41 Mbit/s

95th percentile per-packet one-way delay: 104.045 ms

Loss rate: 1.44%

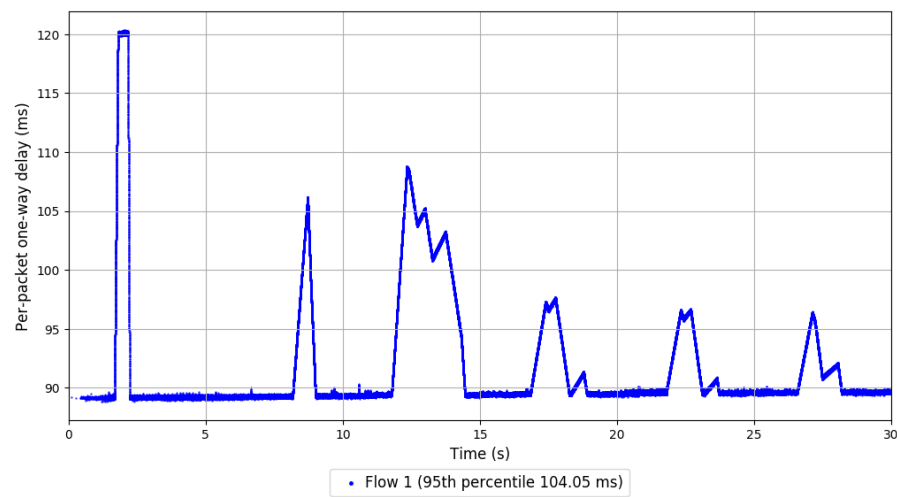
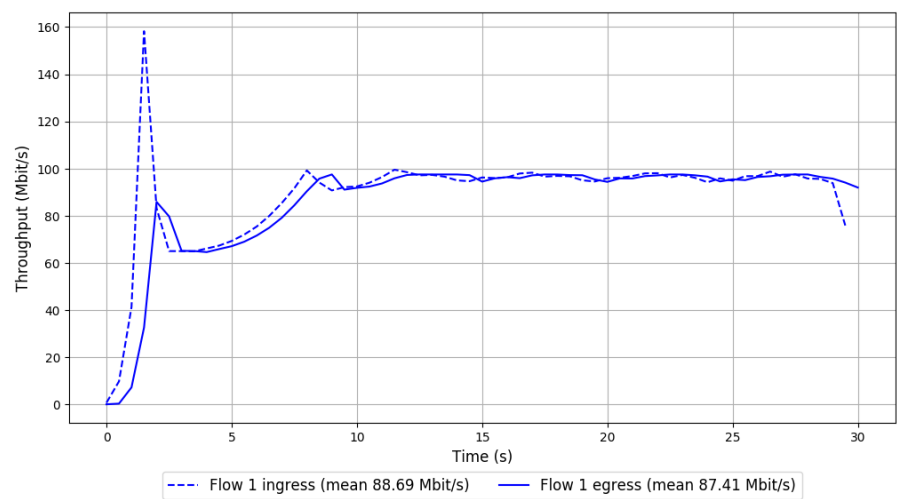
-- Flow 1:

Average throughput: 87.41 Mbit/s

95th percentile per-packet one-way delay: 104.045 ms

Loss rate: 1.44%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-07-03 11:14:24

End at: 2018-07-03 11:14:54

Local clock offset: -3.473 ms

Remote clock offset: 1.074 ms

Below is generated by plot.py at 2018-07-03 13:54:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.13 Mbit/s

95th percentile per-packet one-way delay: 89.123 ms

Loss rate: 1.41%

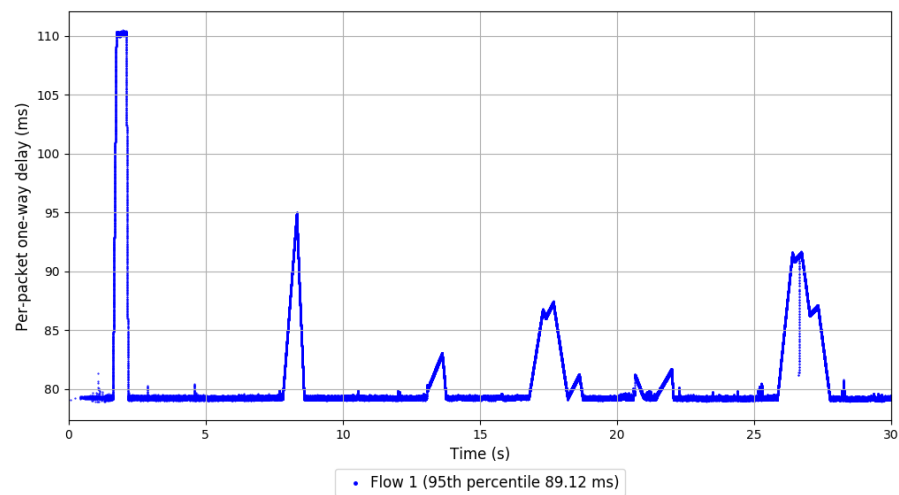
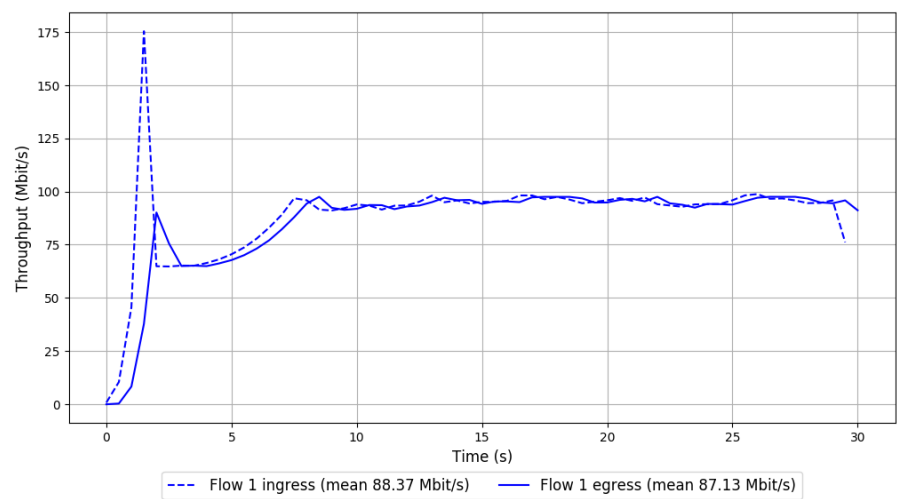
-- Flow 1:

Average throughput: 87.13 Mbit/s

95th percentile per-packet one-way delay: 89.123 ms

Loss rate: 1.41%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-07-03 11:34:16

End at: 2018-07-03 11:34:47

Local clock offset: -7.968 ms

Remote clock offset: 1.967 ms

Below is generated by plot.py at 2018-07-03 13:54:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.79 Mbit/s

95th percentile per-packet one-way delay: 98.168 ms

Loss rate: 1.42%

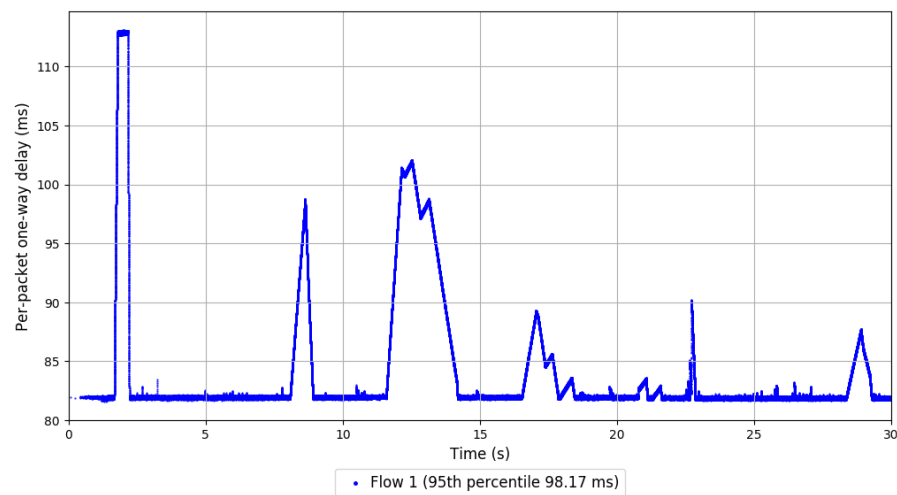
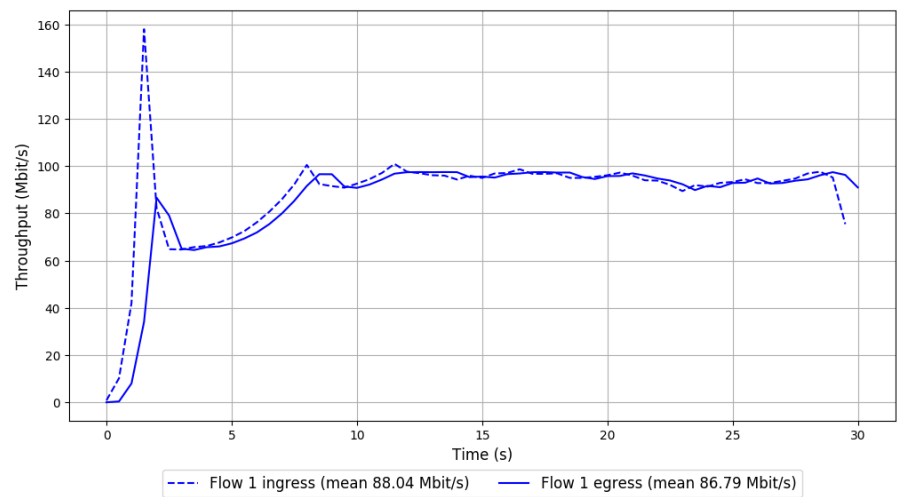
-- Flow 1:

Average throughput: 86.79 Mbit/s

95th percentile per-packet one-way delay: 98.168 ms

Loss rate: 1.42%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-07-03 11:54:10

End at: 2018-07-03 11:54:40

Local clock offset: -3.003 ms

Remote clock offset: 2.567 ms

Below is generated by plot.py at 2018-07-03 13:54:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.24 Mbit/s

95th percentile per-packet one-way delay: 109.467 ms

Loss rate: 1.41%

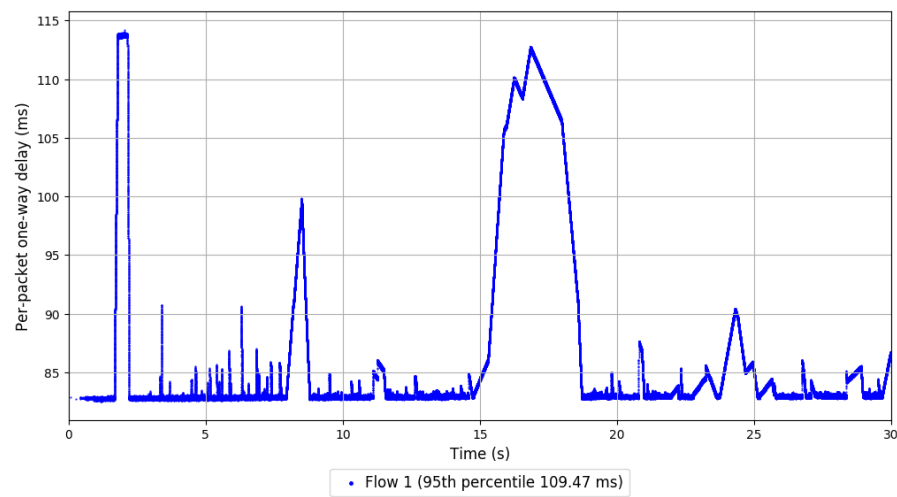
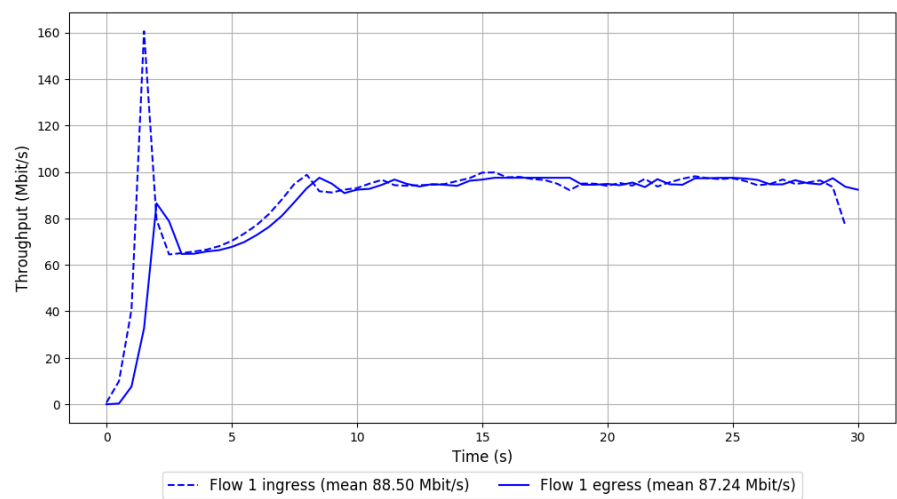
-- Flow 1:

Average throughput: 87.24 Mbit/s

95th percentile per-packet one-way delay: 109.467 ms

Loss rate: 1.41%

Run 5: Report of PCC-Allegro — Data Link



Run 6: Statistics of PCC-Allegro

Start at: 2018-07-03 12:14:05

End at: 2018-07-03 12:14:35

Local clock offset: -1.691 ms

Remote clock offset: 8.531 ms

Below is generated by plot.py at 2018-07-03 13:54:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.51 Mbit/s

95th percentile per-packet one-way delay: 102.297 ms

Loss rate: 1.40%

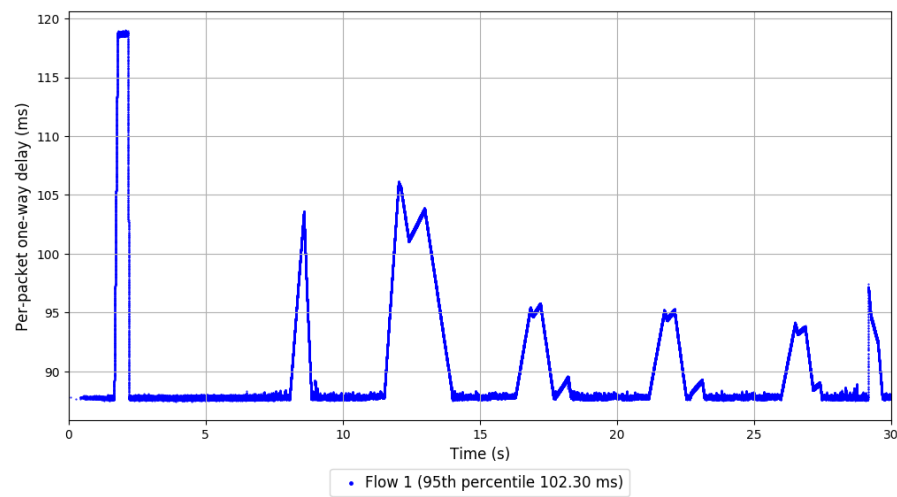
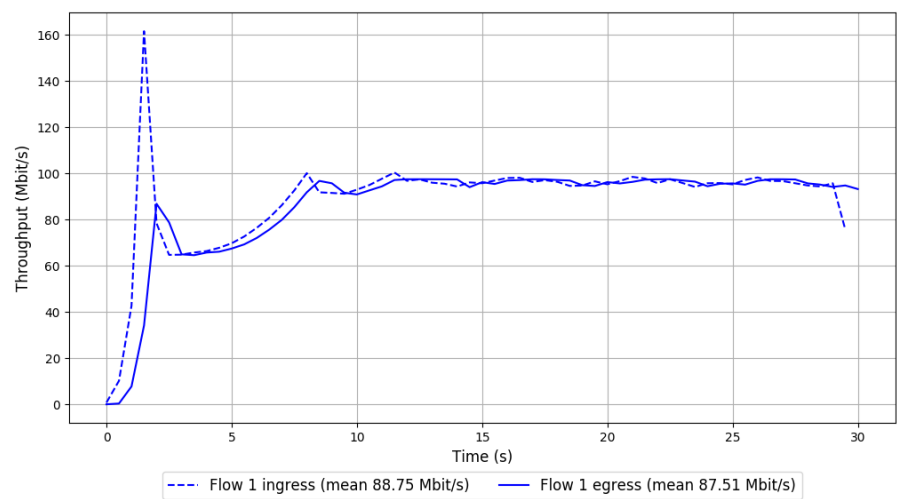
-- Flow 1:

Average throughput: 87.51 Mbit/s

95th percentile per-packet one-way delay: 102.297 ms

Loss rate: 1.40%

Run 6: Report of PCC-Allegro — Data Link



Run 7: Statistics of PCC-Allegro

Start at: 2018-07-03 12:34:07

End at: 2018-07-03 12:34:37

Local clock offset: -2.432 ms

Remote clock offset: 2.547 ms

Below is generated by plot.py at 2018-07-03 13:54:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.26 Mbit/s

95th percentile per-packet one-way delay: 102.158 ms

Loss rate: 1.43%

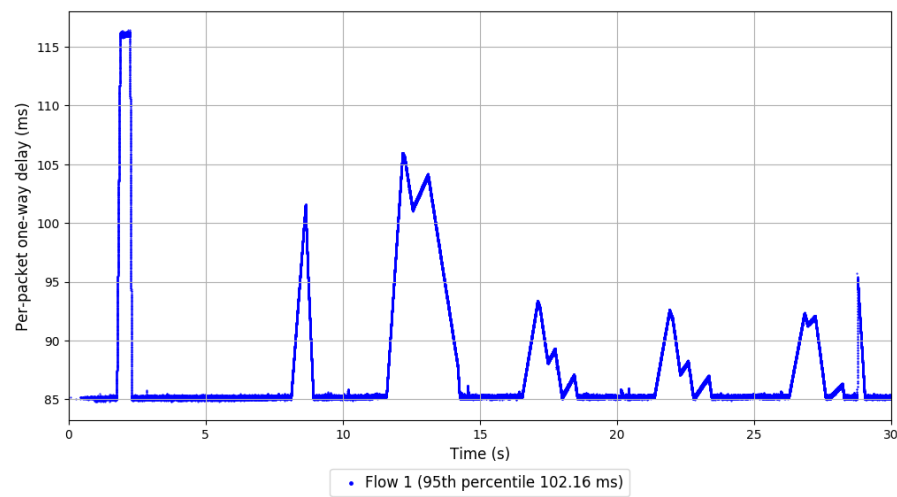
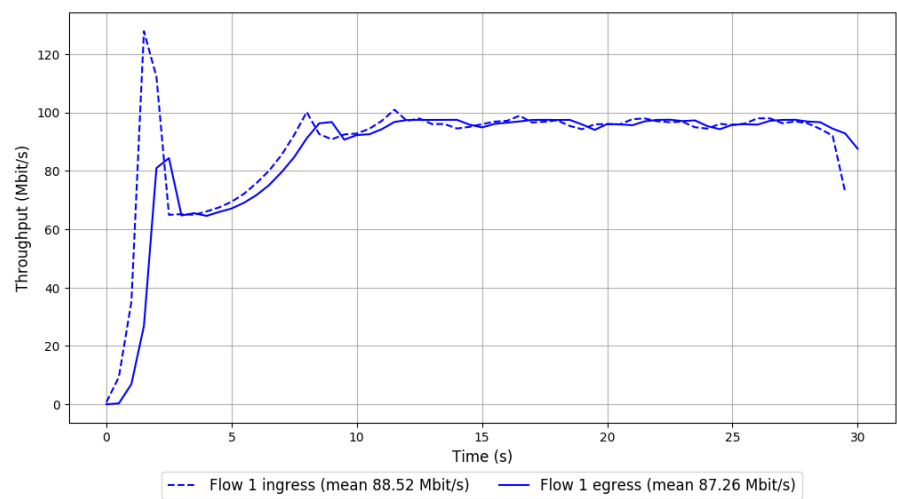
-- Flow 1:

Average throughput: 87.26 Mbit/s

95th percentile per-packet one-way delay: 102.158 ms

Loss rate: 1.43%

Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-07-03 12:53:59

End at: 2018-07-03 12:54:29

Local clock offset: -1.89 ms

Remote clock offset: 9.017 ms

Below is generated by plot.py at 2018-07-03 13:54:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.34 Mbit/s

95th percentile per-packet one-way delay: 102.083 ms

Loss rate: 1.40%

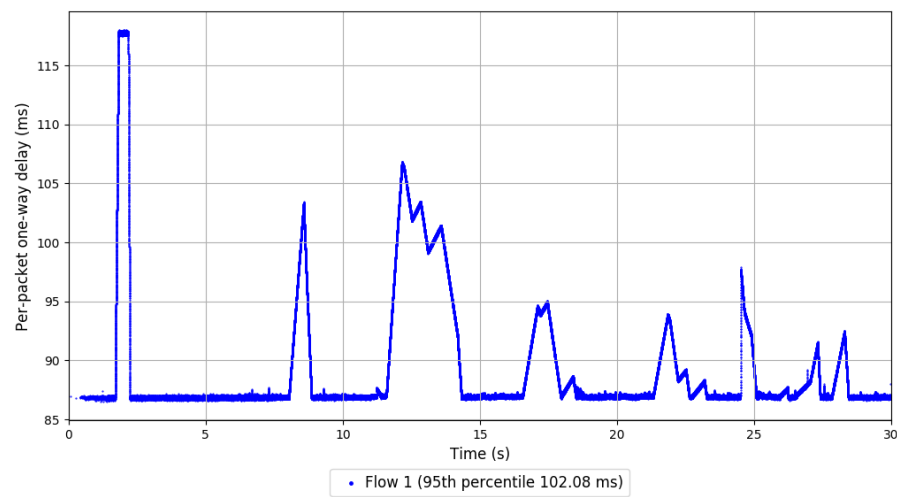
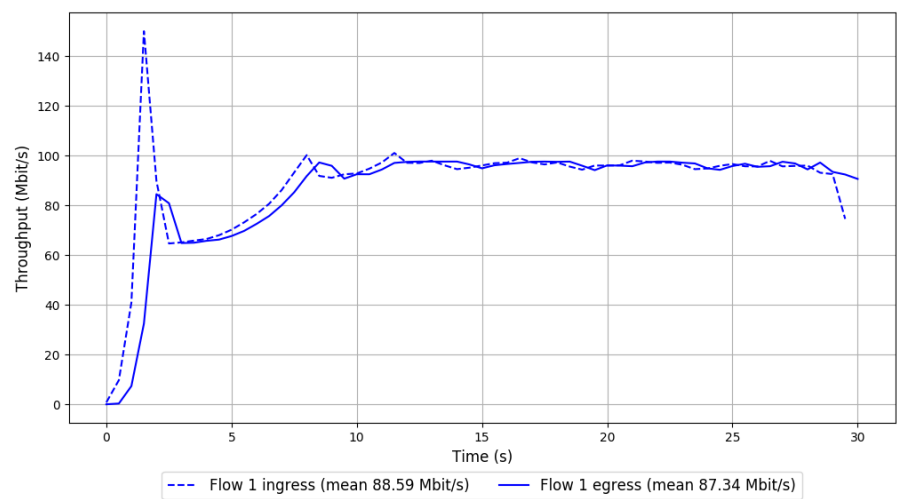
-- Flow 1:

Average throughput: 87.34 Mbit/s

95th percentile per-packet one-way delay: 102.083 ms

Loss rate: 1.40%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-07-03 13:13:52

End at: 2018-07-03 13:14:22

Local clock offset: -1.494 ms

Remote clock offset: 8.437 ms

Below is generated by plot.py at 2018-07-03 13:54:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.25 Mbit/s

95th percentile per-packet one-way delay: 88.161 ms

Loss rate: 1.40%

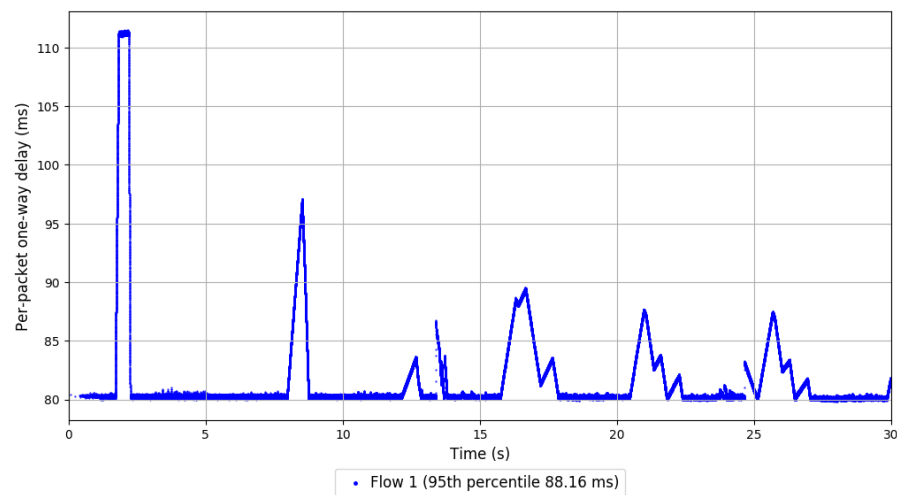
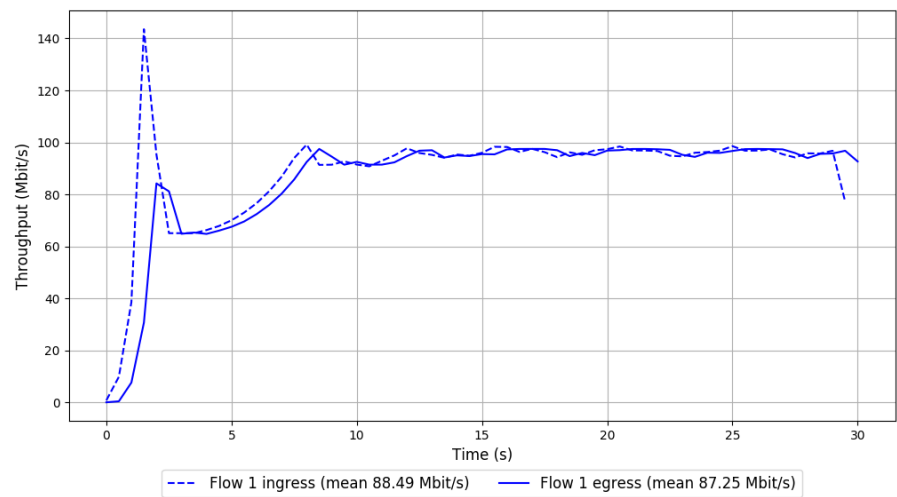
-- Flow 1:

Average throughput: 87.25 Mbit/s

95th percentile per-packet one-way delay: 88.161 ms

Loss rate: 1.40%

Run 9: Report of PCC-Allegro — Data Link

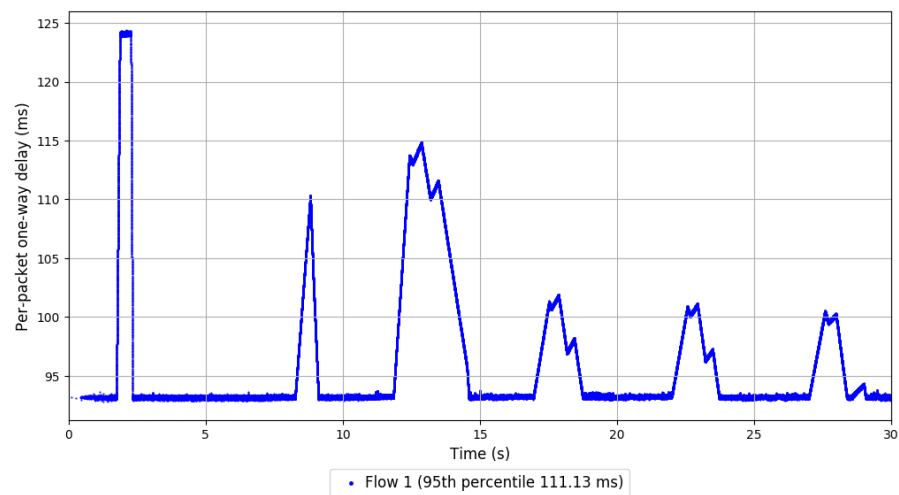
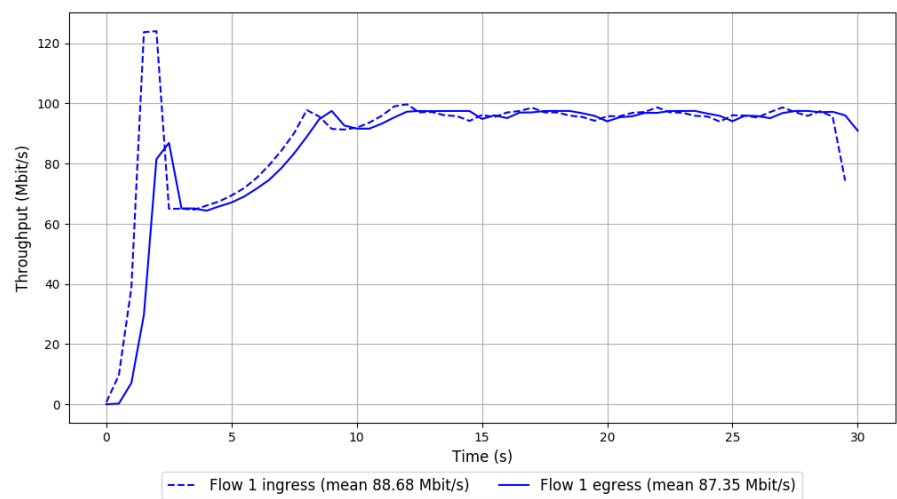


Run 10: Statistics of PCC-Allegro

Start at: 2018-07-03 13:33:46
End at: 2018-07-03 13:34:16
Local clock offset: -1.459 ms
Remote clock offset: 19.666 ms

Below is generated by plot.py at 2018-07-03 13:54:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 87.35 Mbit/s
95th percentile per-packet one-way delay: 111.128 ms
Loss rate: 1.52%
-- Flow 1:
Average throughput: 87.35 Mbit/s
95th percentile per-packet one-way delay: 111.128 ms
Loss rate: 1.52%

Run 10: Report of PCC-Allegro — Data Link

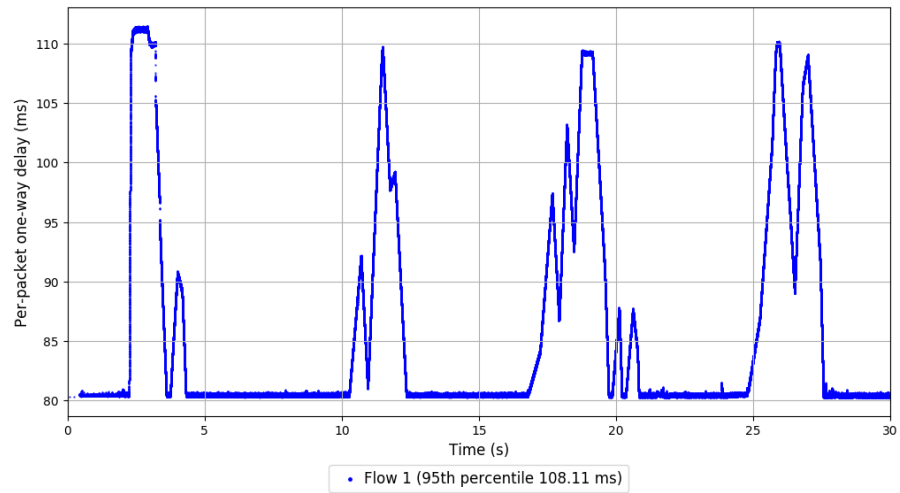
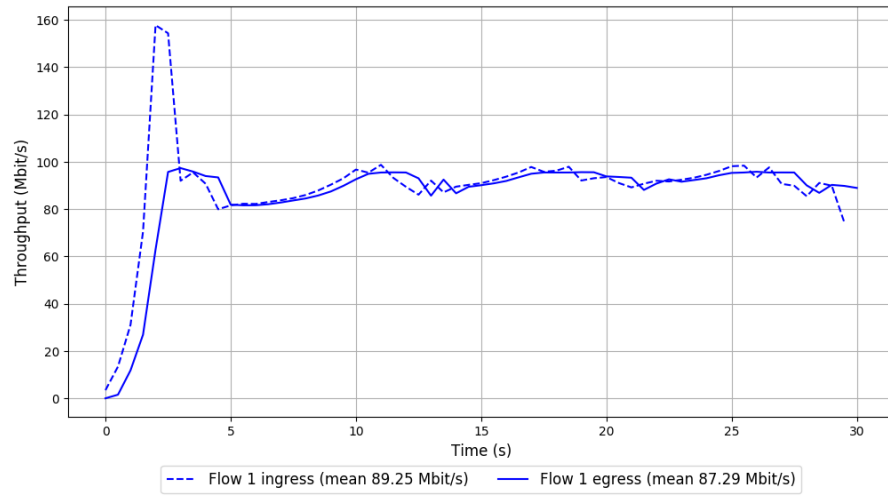


```
Run 1: Statistics of PCC-Expr

Start at: 2018-07-03 10:23:03
End at: 2018-07-03 10:23:33
Local clock offset: -6.164 ms
Remote clock offset: 10.56 ms

# Below is generated by plot.py at 2018-07-03 13:55:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.29 Mbit/s
95th percentile per-packet one-way delay: 108.106 ms
Loss rate: 2.19%
-- Flow 1:
Average throughput: 87.29 Mbit/s
95th percentile per-packet one-way delay: 108.106 ms
Loss rate: 2.19%
```

Run 1: Report of PCC-Expr — Data Link

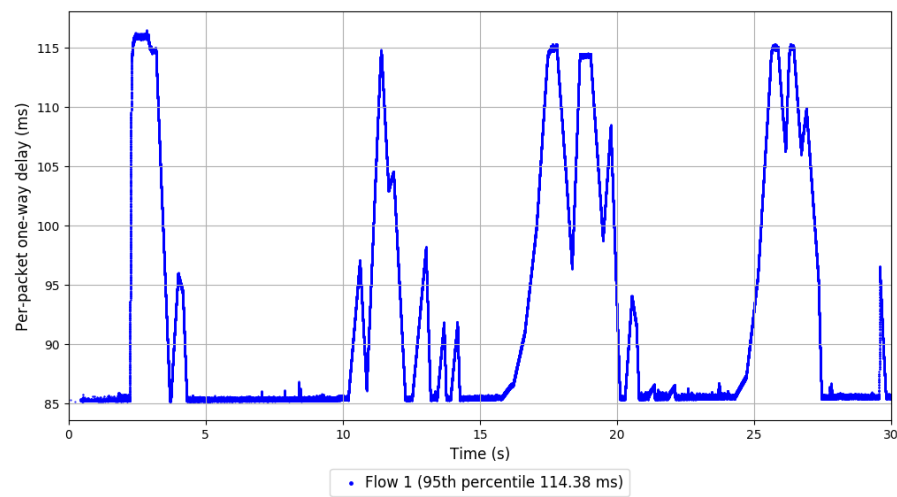
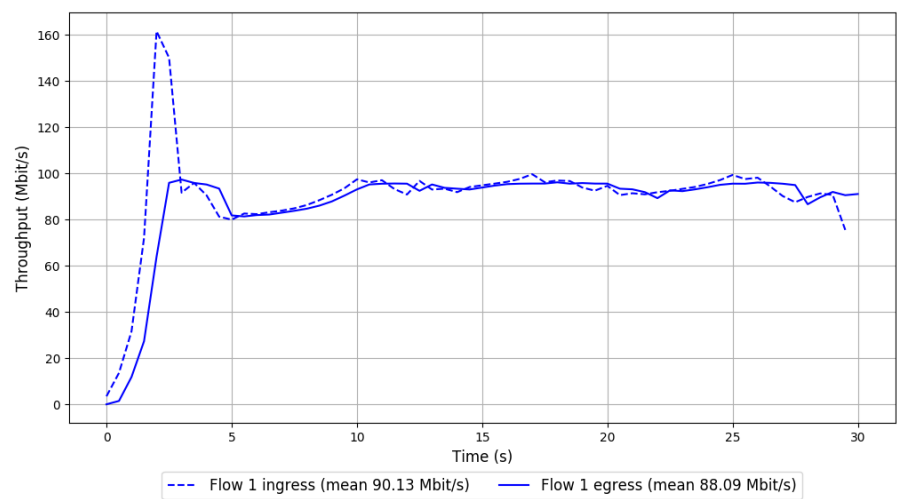


Run 2: Statistics of PCC-Expr

Start at: 2018-07-03 10:42:54
End at: 2018-07-03 10:43:24
Local clock offset: -6.578 ms
Remote clock offset: 14.211 ms

Below is generated by plot.py at 2018-07-03 13:55:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 88.09 Mbit/s
95th percentile per-packet one-way delay: 114.384 ms
Loss rate: 2.26%
-- Flow 1:
Average throughput: 88.09 Mbit/s
95th percentile per-packet one-way delay: 114.384 ms
Loss rate: 2.26%

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2018-07-03 11:02:44

End at: 2018-07-03 11:03:14

Local clock offset: -1.705 ms

Remote clock offset: 3.808 ms

Below is generated by plot.py at 2018-07-03 13:55:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.82 Mbit/s

95th percentile per-packet one-way delay: 108.678 ms

Loss rate: 2.33%

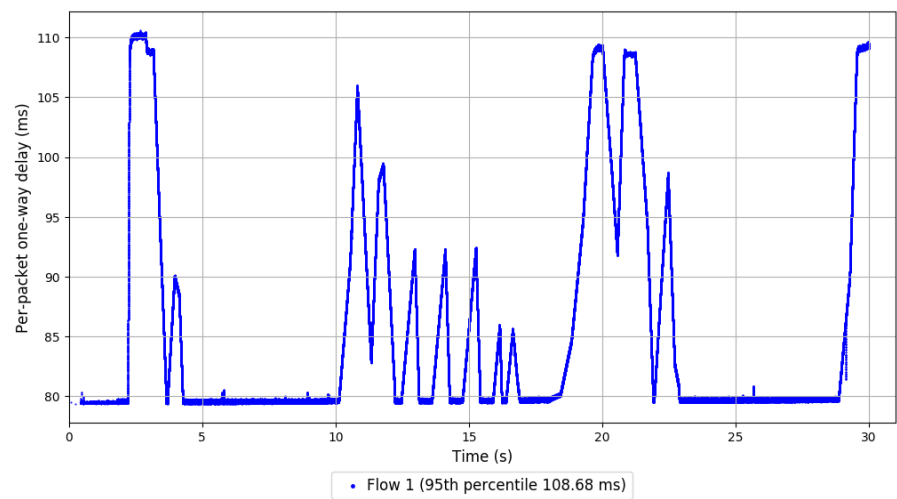
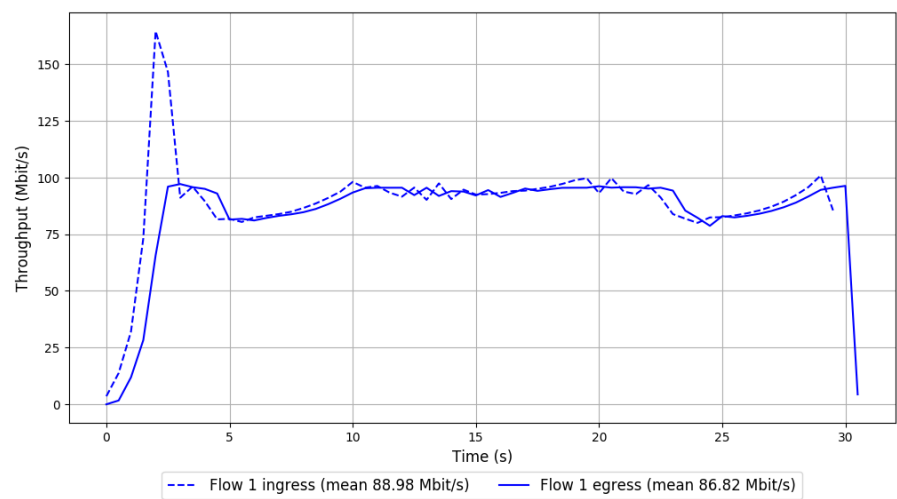
-- Flow 1:

Average throughput: 86.82 Mbit/s

95th percentile per-packet one-way delay: 108.678 ms

Loss rate: 2.33%

Run 3: Report of PCC-Expr — Data Link

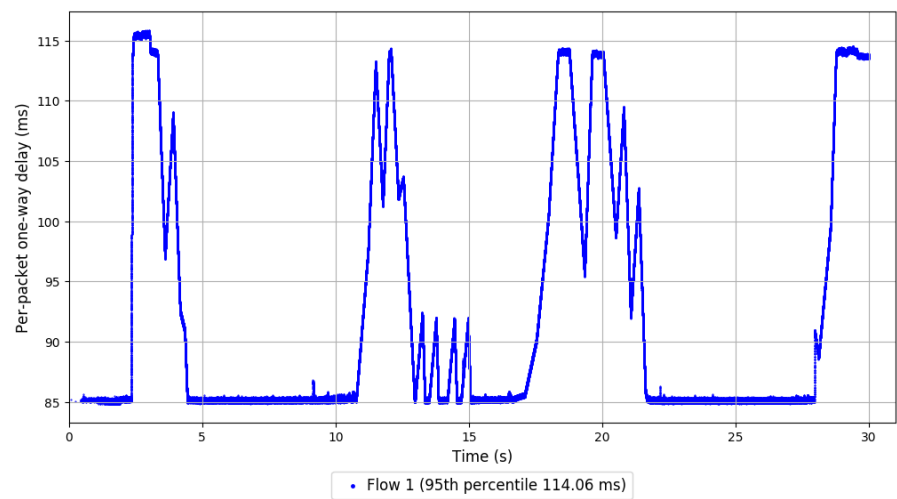
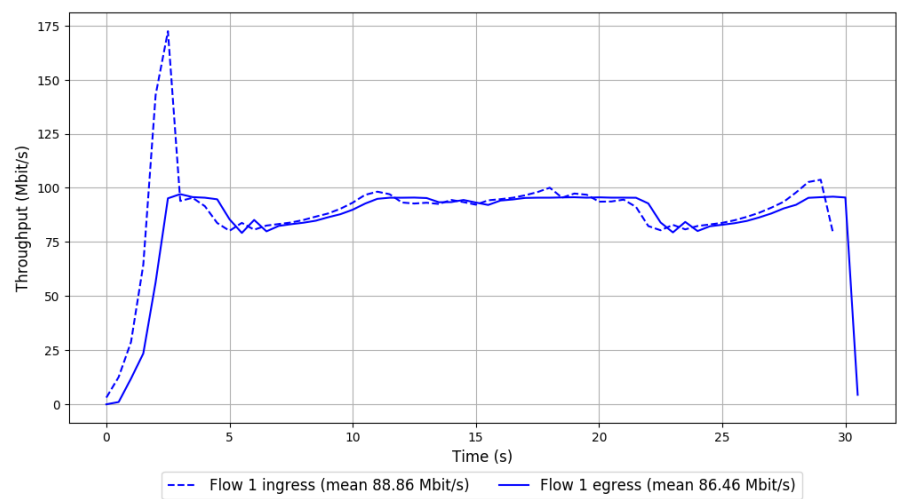


Run 4: Statistics of PCC-Expr

Start at: 2018-07-03 11:22:35
End at: 2018-07-03 11:23:05
Local clock offset: -6.236 ms
Remote clock offset: -0.243 ms

Below is generated by plot.py at 2018-07-03 13:55:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 86.46 Mbit/s
95th percentile per-packet one-way delay: 114.055 ms
Loss rate: 2.62%
-- Flow 1:
Average throughput: 86.46 Mbit/s
95th percentile per-packet one-way delay: 114.055 ms
Loss rate: 2.62%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2018-07-03 11:42:27

End at: 2018-07-03 11:42:57

Local clock offset: -7.134 ms

Remote clock offset: 1.538 ms

Below is generated by plot.py at 2018-07-03 13:56:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.07 Mbit/s

95th percentile per-packet one-way delay: 110.815 ms

Loss rate: 2.38%

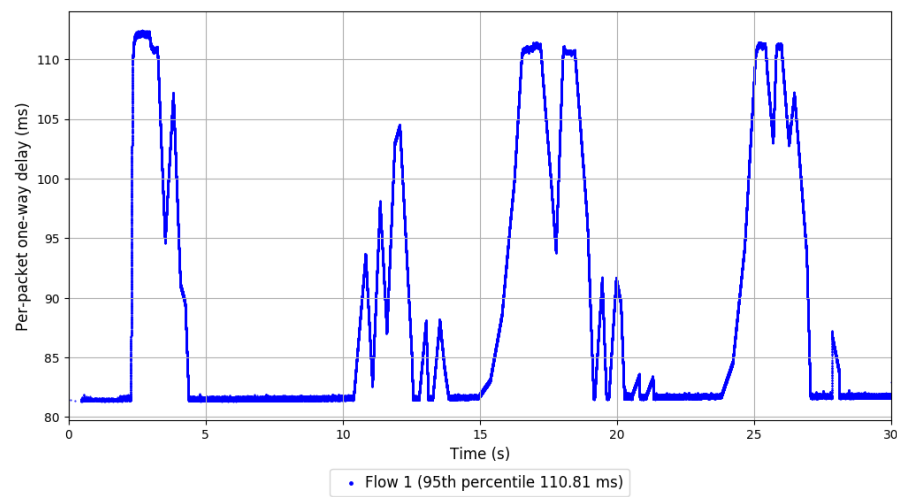
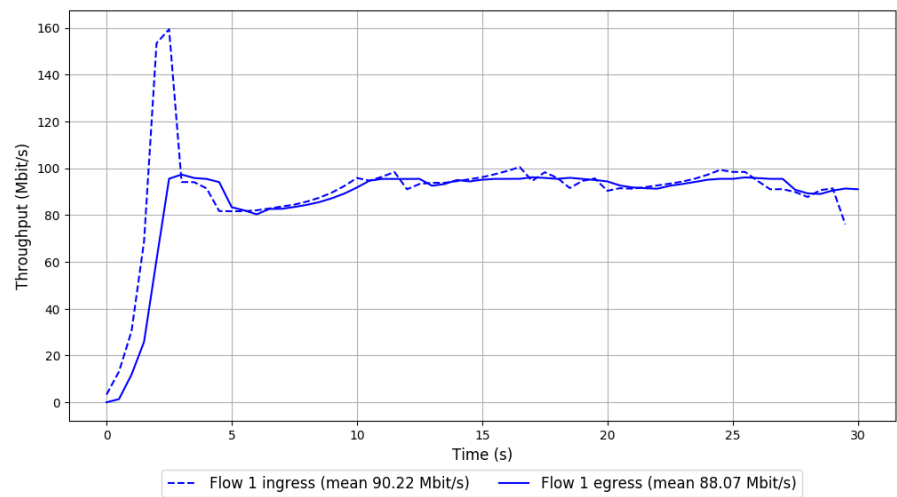
-- Flow 1:

Average throughput: 88.07 Mbit/s

95th percentile per-packet one-way delay: 110.815 ms

Loss rate: 2.38%

Run 5: Report of PCC-Expr — Data Link



Run 6: Statistics of PCC-Expr

Start at: 2018-07-03 12:02:21

End at: 2018-07-03 12:02:51

Local clock offset: -1.824 ms

Remote clock offset: 5.274 ms

Below is generated by plot.py at 2018-07-03 13:56:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.76 Mbit/s

95th percentile per-packet one-way delay: 112.599 ms

Loss rate: 2.63%

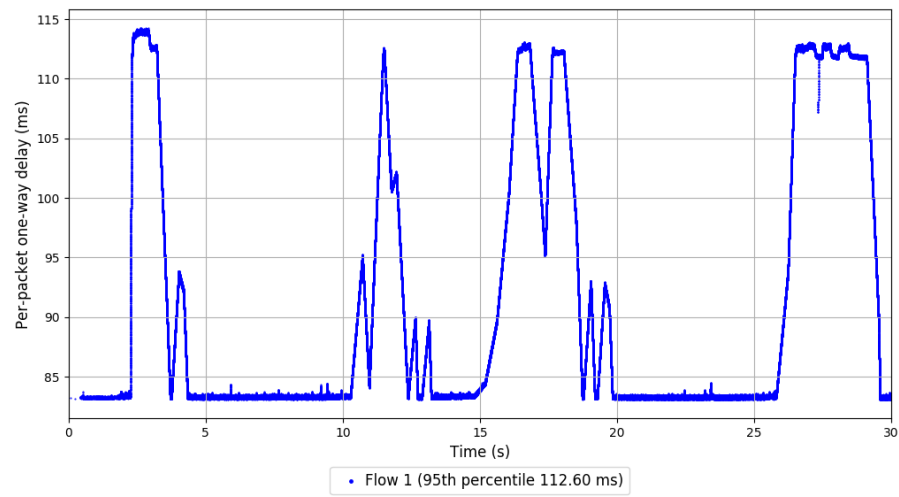
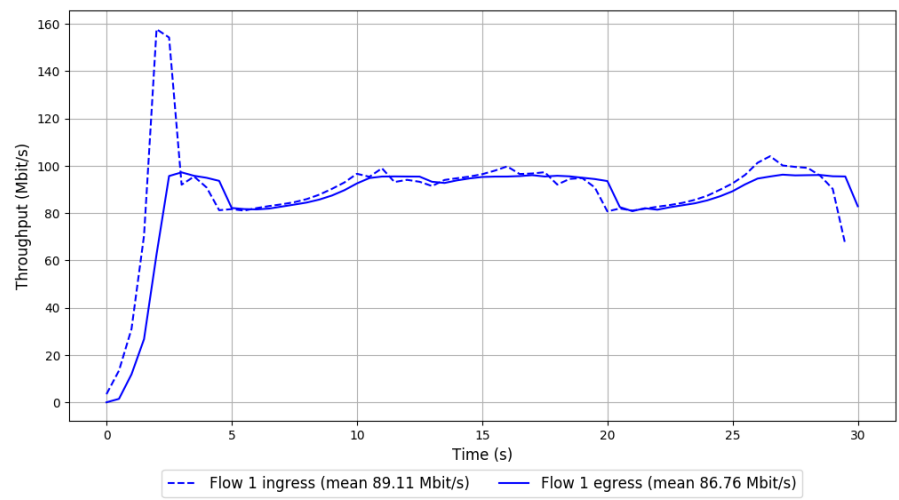
-- Flow 1:

Average throughput: 86.76 Mbit/s

95th percentile per-packet one-way delay: 112.599 ms

Loss rate: 2.63%

Run 6: Report of PCC-Expr — Data Link



Run 7: Statistics of PCC-Expr

Start at: 2018-07-03 12:22:22

End at: 2018-07-03 12:22:52

Local clock offset: -2.287 ms

Remote clock offset: 8.667 ms

Below is generated by plot.py at 2018-07-03 13:57:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.87 Mbit/s

95th percentile per-packet one-way delay: 116.520 ms

Loss rate: 2.50%

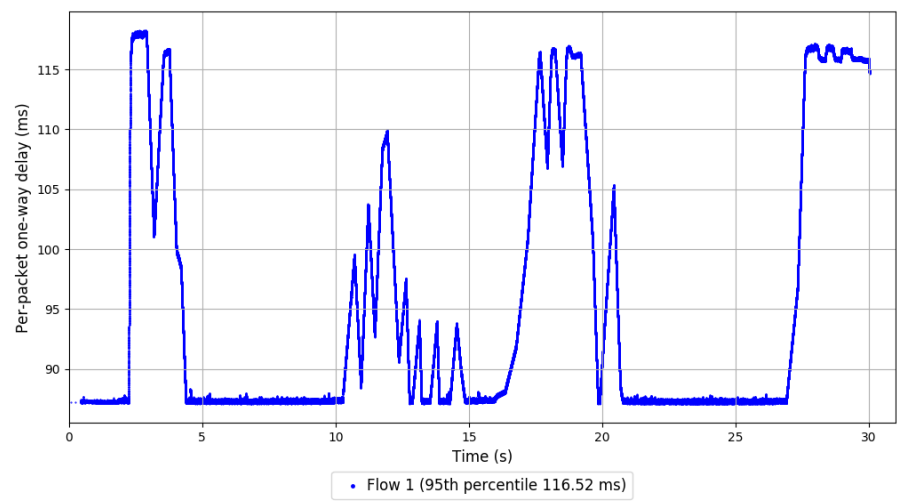
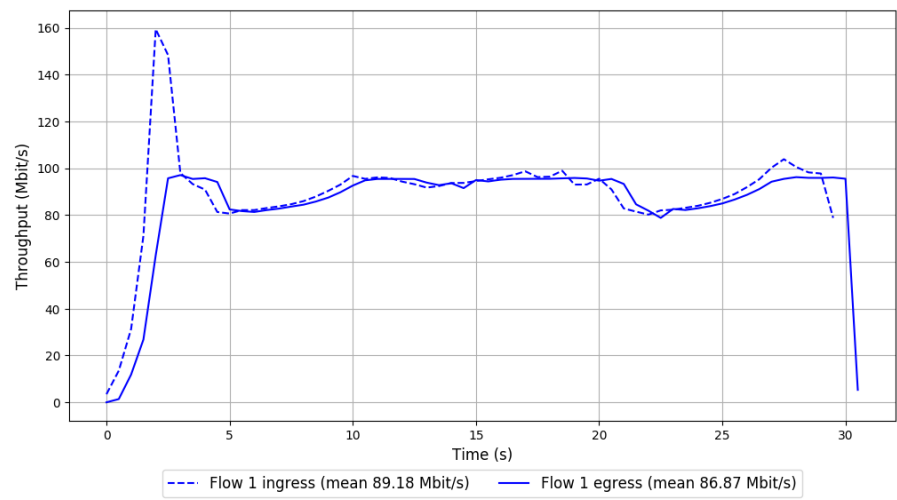
-- Flow 1:

Average throughput: 86.87 Mbit/s

95th percentile per-packet one-way delay: 116.520 ms

Loss rate: 2.50%

Run 7: Report of PCC-Expr — Data Link



Run 8: Statistics of PCC-Expr

Start at: 2018-07-03 12:42:17

End at: 2018-07-03 12:42:47

Local clock offset: -2.266 ms

Remote clock offset: 9.386 ms

Below is generated by plot.py at 2018-07-03 13:57:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.13 Mbit/s

95th percentile per-packet one-way delay: 119.963 ms

Loss rate: 2.52%

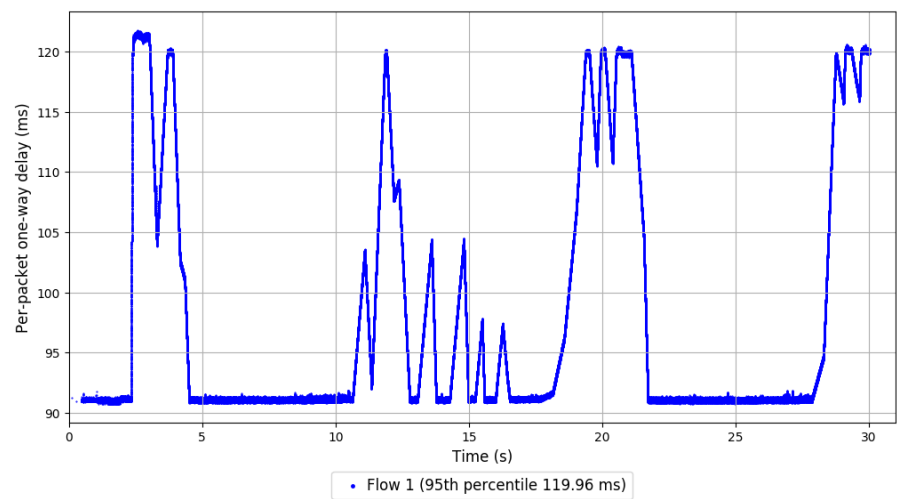
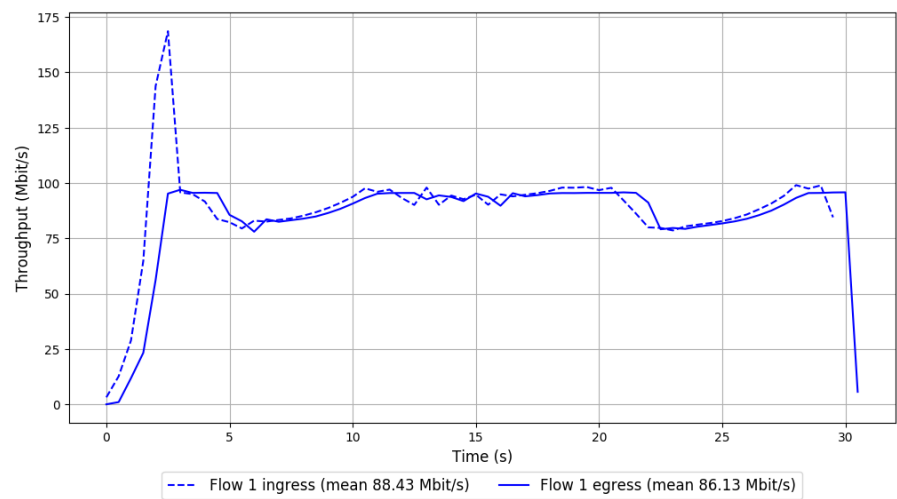
-- Flow 1:

Average throughput: 86.13 Mbit/s

95th percentile per-packet one-way delay: 119.963 ms

Loss rate: 2.52%

Run 8: Report of PCC-Expr — Data Link



Run 9: Statistics of PCC-Expr

Start at: 2018-07-03 13:02:09

End at: 2018-07-03 13:02:39

Local clock offset: -1.607 ms

Remote clock offset: 4.181 ms

Below is generated by plot.py at 2018-07-03 13:58:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.57 Mbit/s

95th percentile per-packet one-way delay: 115.633 ms

Loss rate: 2.65%

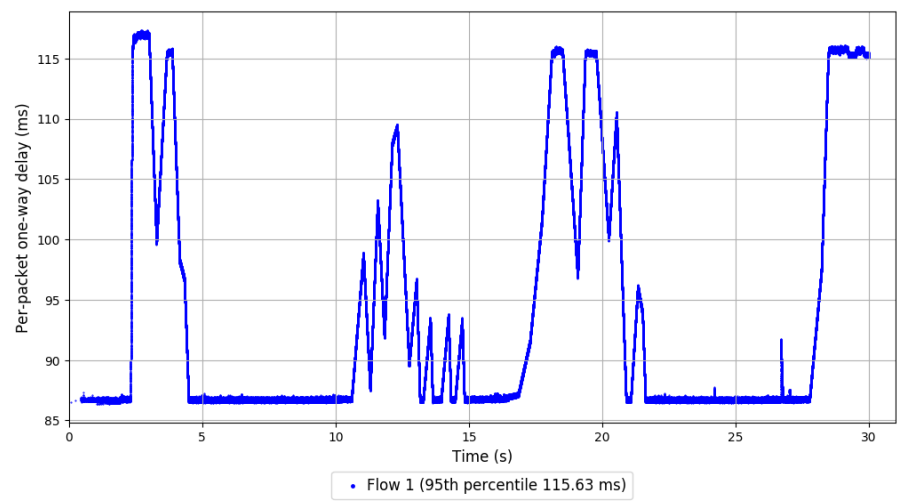
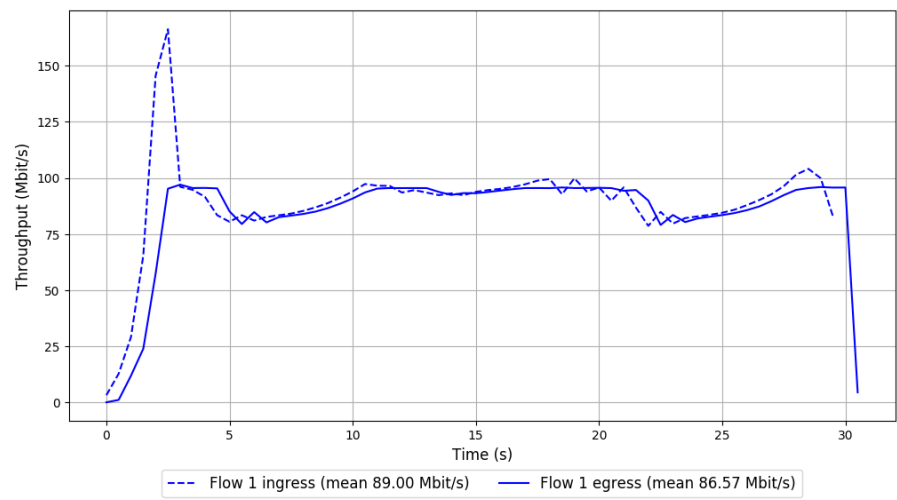
-- Flow 1:

Average throughput: 86.57 Mbit/s

95th percentile per-packet one-way delay: 115.633 ms

Loss rate: 2.65%

Run 9: Report of PCC-Expr — Data Link

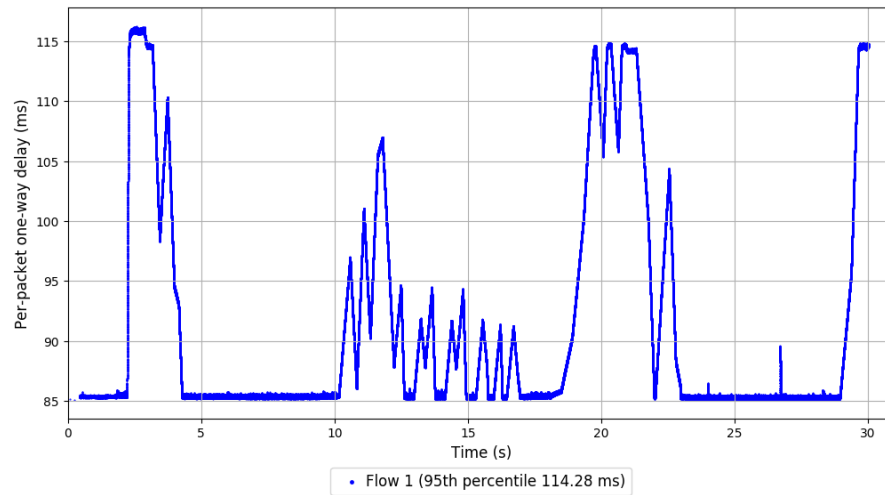
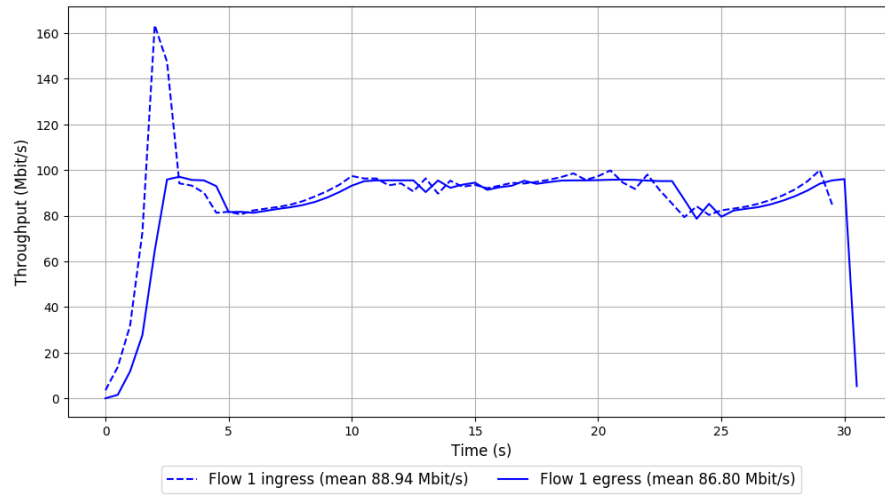


Run 10: Statistics of PCC-Expr

Start at: 2018-07-03 13:22:03
End at: 2018-07-03 13:22:33
Local clock offset: -1.598 ms
Remote clock offset: 17.122 ms

Below is generated by plot.py at 2018-07-03 13:58:16
Datalink statistics
-- Total of 1 flow:
Average throughput: 86.80 Mbit/s
95th percentile per-packet one-way delay: 114.278 ms
Loss rate: 2.31%
-- Flow 1:
Average throughput: 86.80 Mbit/s
95th percentile per-packet one-way delay: 114.278 ms
Loss rate: 2.31%

Run 10: Report of PCC-Expr — Data Link

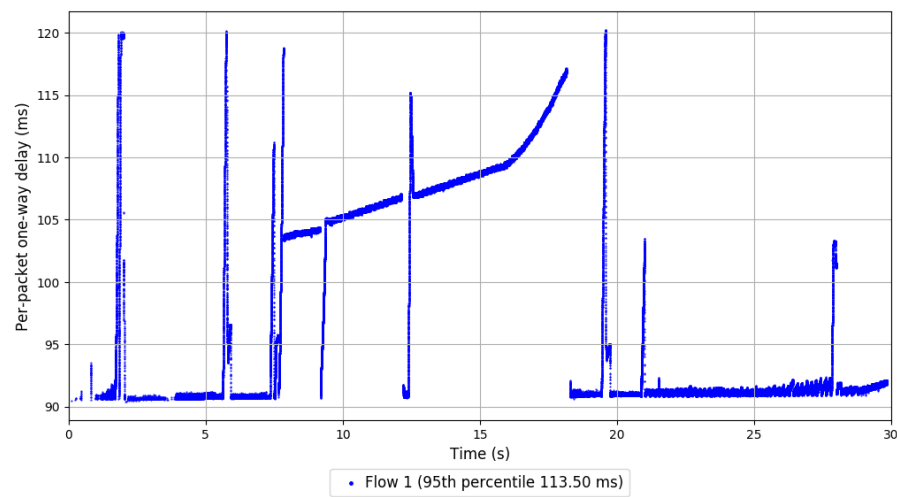
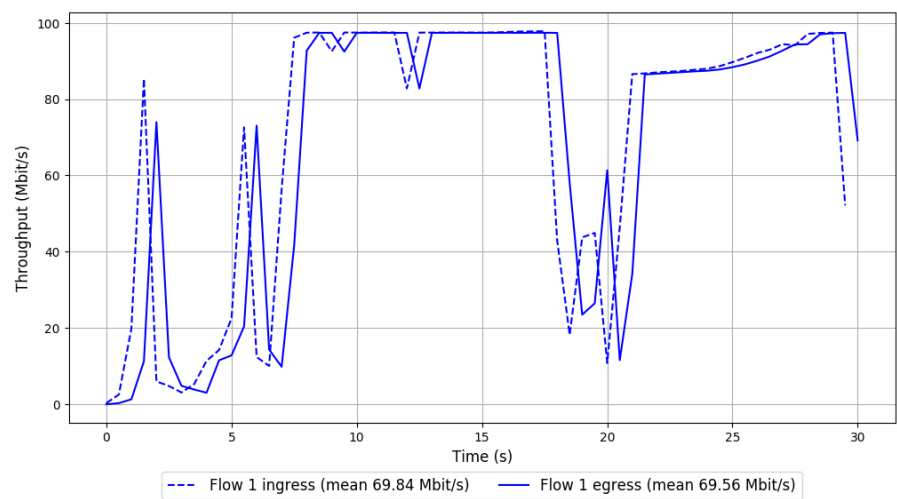


Run 1: Statistics of QUIC Cubic

Start at: 2018-07-03 10:40:37
End at: 2018-07-03 10:41:07
Local clock offset: -8.073 ms
Remote clock offset: 14.349 ms

Below is generated by plot.py at 2018-07-03 13:58:16
Datalink statistics
-- Total of 1 flow:
Average throughput: 69.56 Mbit/s
95th percentile per-packet one-way delay: 113.498 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 69.56 Mbit/s
95th percentile per-packet one-way delay: 113.498 ms
Loss rate: 0.41%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-07-03 11:00:28

End at: 2018-07-03 11:00:58

Local clock offset: -1.91 ms

Remote clock offset: 5.572 ms

Below is generated by plot.py at 2018-07-03 13:58:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 66.30 Mbit/s

95th percentile per-packet one-way delay: 95.980 ms

Loss rate: 0.43%

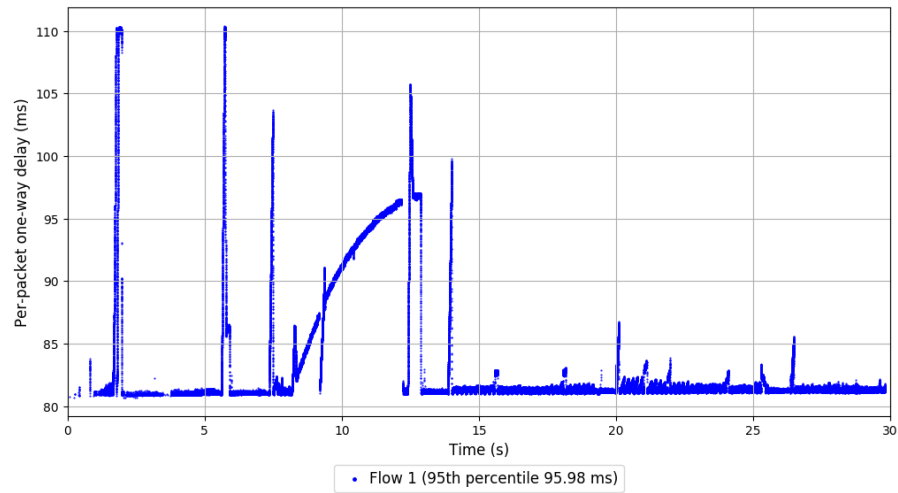
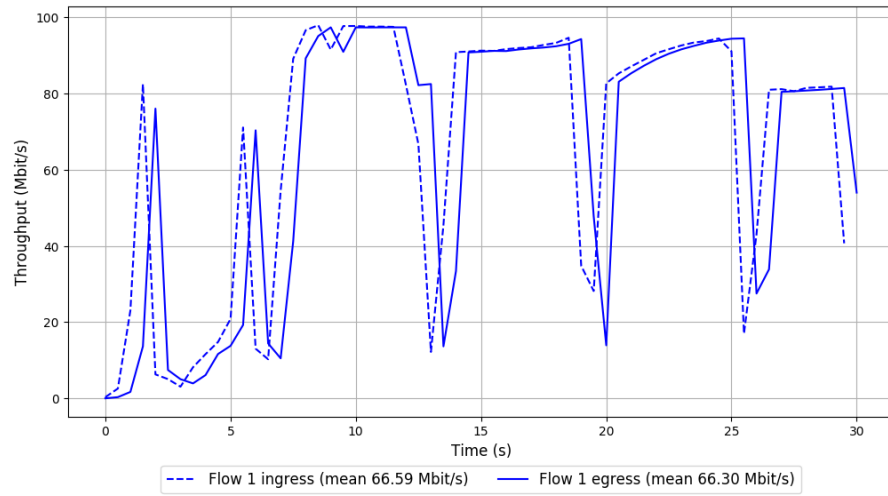
-- Flow 1:

Average throughput: 66.30 Mbit/s

95th percentile per-packet one-way delay: 95.980 ms

Loss rate: 0.43%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-07-03 11:20:18

End at: 2018-07-03 11:20:48

Local clock offset: -5.652 ms

Remote clock offset: 0.147 ms

Below is generated by plot.py at 2018-07-03 13:58:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 70.05 Mbit/s

95th percentile per-packet one-way delay: 106.577 ms

Loss rate: 0.44%

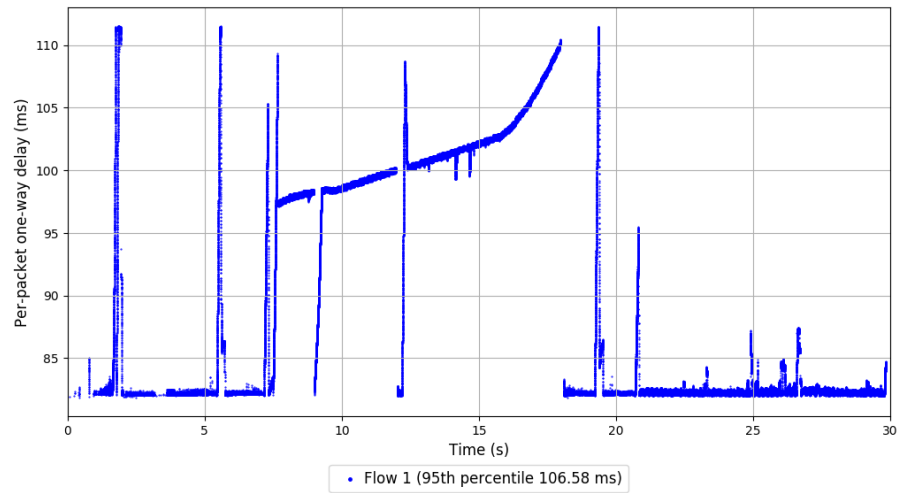
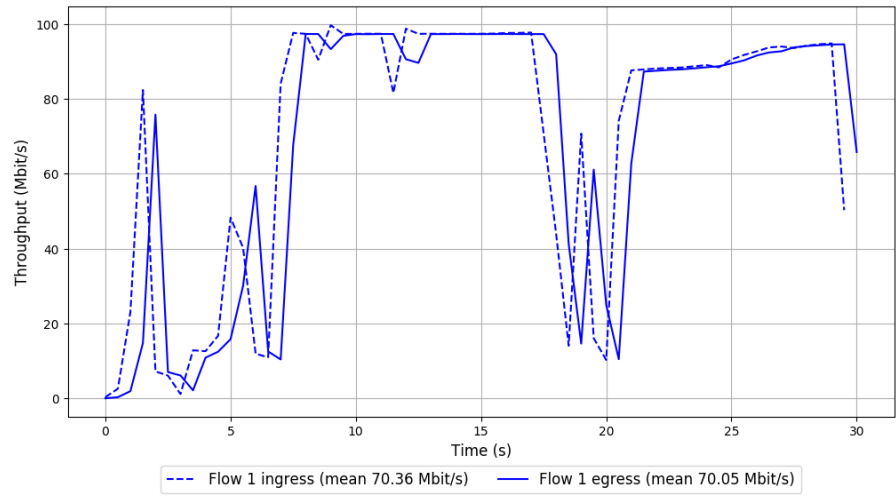
-- Flow 1:

Average throughput: 70.05 Mbit/s

95th percentile per-packet one-way delay: 106.577 ms

Loss rate: 0.44%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-07-03 11:40:10

End at: 2018-07-03 11:40:40

Local clock offset: -8.41 ms

Remote clock offset: 2.617 ms

Below is generated by plot.py at 2018-07-03 13:58:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.38 Mbit/s

95th percentile per-packet one-way delay: 98.905 ms

Loss rate: 0.43%

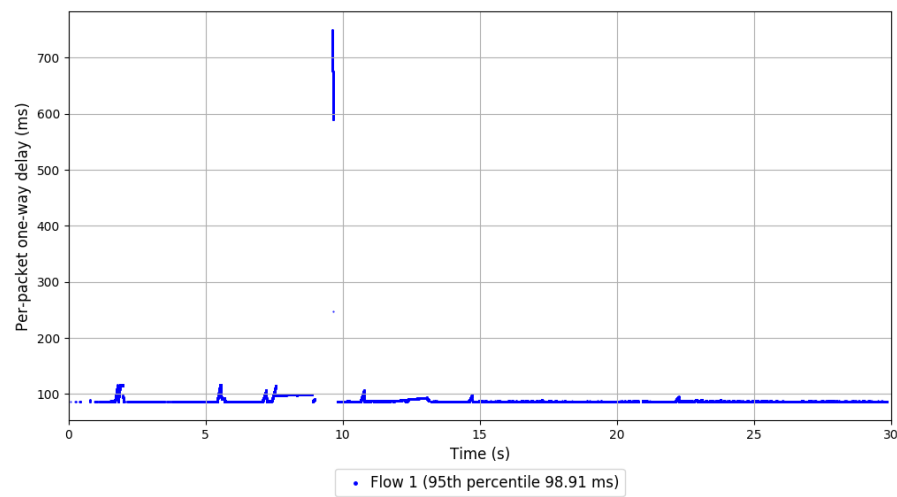
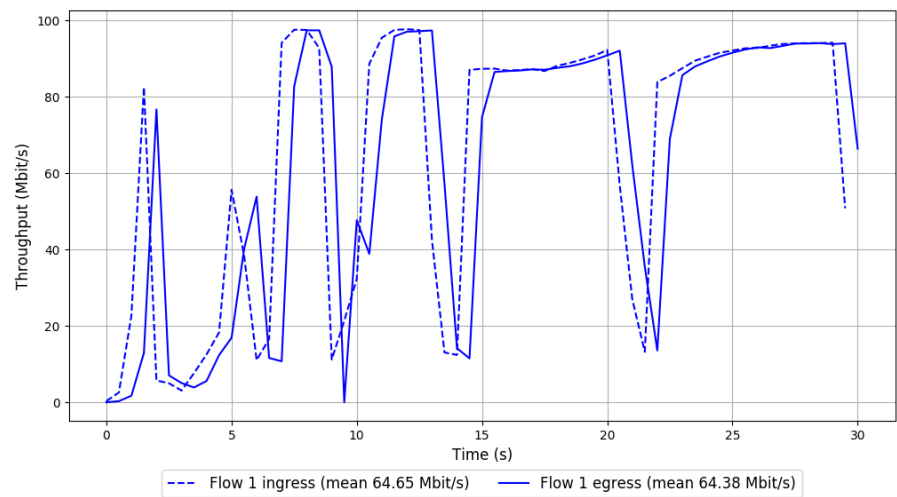
-- Flow 1:

Average throughput: 64.38 Mbit/s

95th percentile per-packet one-way delay: 98.905 ms

Loss rate: 0.43%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-07-03 12:00:04

End at: 2018-07-03 12:00:34

Local clock offset: -2.036 ms

Remote clock offset: 1.274 ms

Below is generated by plot.py at 2018-07-03 13:58:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.75 Mbit/s

95th percentile per-packet one-way delay: 103.239 ms

Loss rate: 0.45%

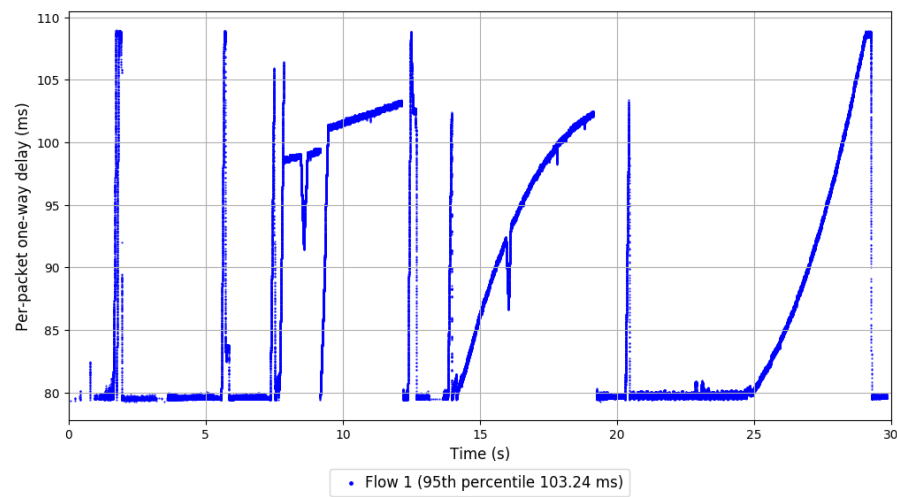
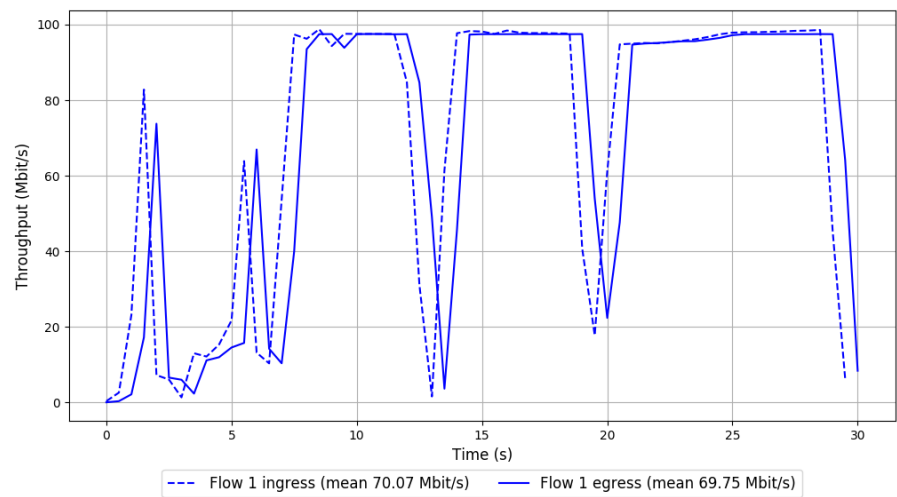
-- Flow 1:

Average throughput: 69.75 Mbit/s

95th percentile per-packet one-way delay: 103.239 ms

Loss rate: 0.45%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-07-03 12:20:00

End at: 2018-07-03 12:20:30

Local clock offset: -2.17 ms

Remote clock offset: 6.377 ms

Below is generated by plot.py at 2018-07-03 13:58:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.14 Mbit/s

95th percentile per-packet one-way delay: 92.945 ms

Loss rate: 0.41%

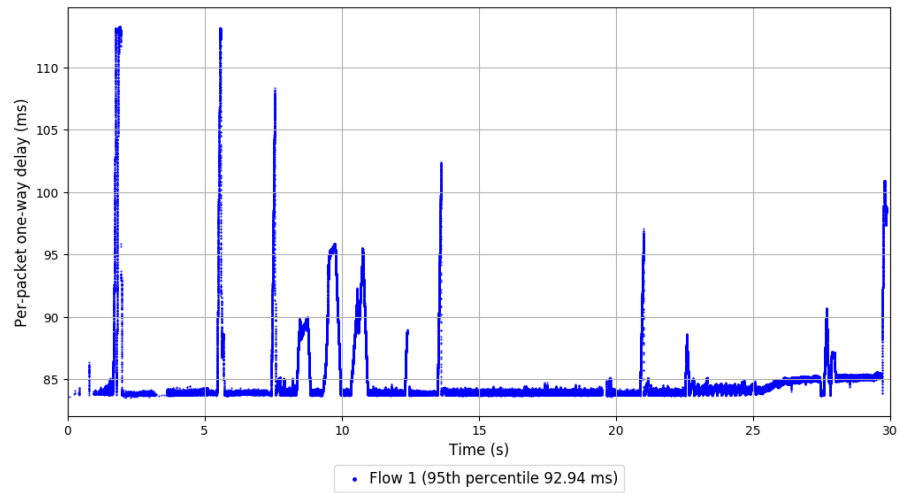
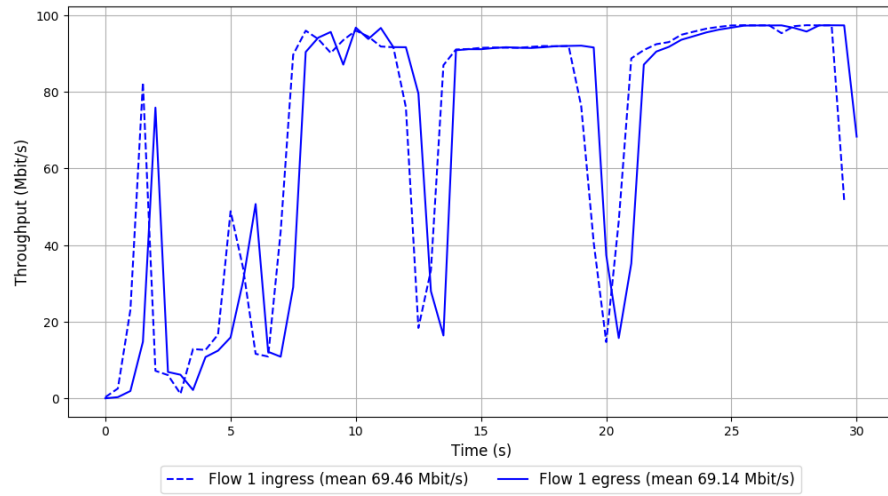
-- Flow 1:

Average throughput: 69.14 Mbit/s

95th percentile per-packet one-way delay: 92.945 ms

Loss rate: 0.41%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-07-03 12:40:01

End at: 2018-07-03 12:40:31

Local clock offset: -2.369 ms

Remote clock offset: 9.284 ms

Below is generated by plot.py at 2018-07-03 13:58:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.80 Mbit/s

95th percentile per-packet one-way delay: 91.815 ms

Loss rate: 0.51%

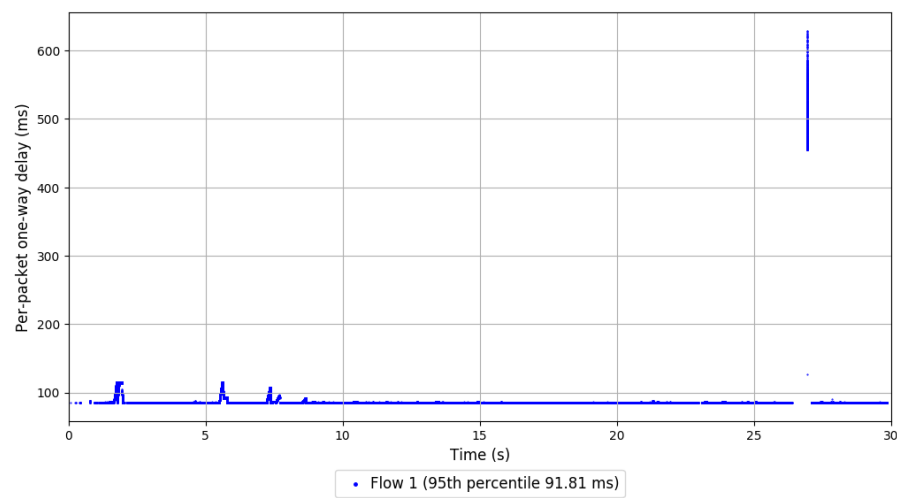
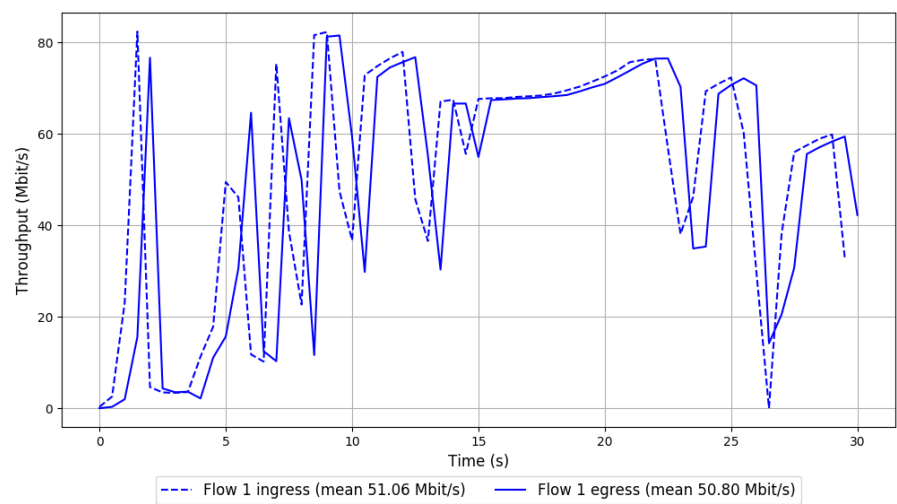
-- Flow 1:

Average throughput: 50.80 Mbit/s

95th percentile per-packet one-way delay: 91.815 ms

Loss rate: 0.51%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-07-03 12:59:52

End at: 2018-07-03 13:00:22

Local clock offset: -1.66 ms

Remote clock offset: 3.981 ms

Below is generated by plot.py at 2018-07-03 13:58:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.41 Mbit/s

95th percentile per-packet one-way delay: 99.724 ms

Loss rate: 0.32%

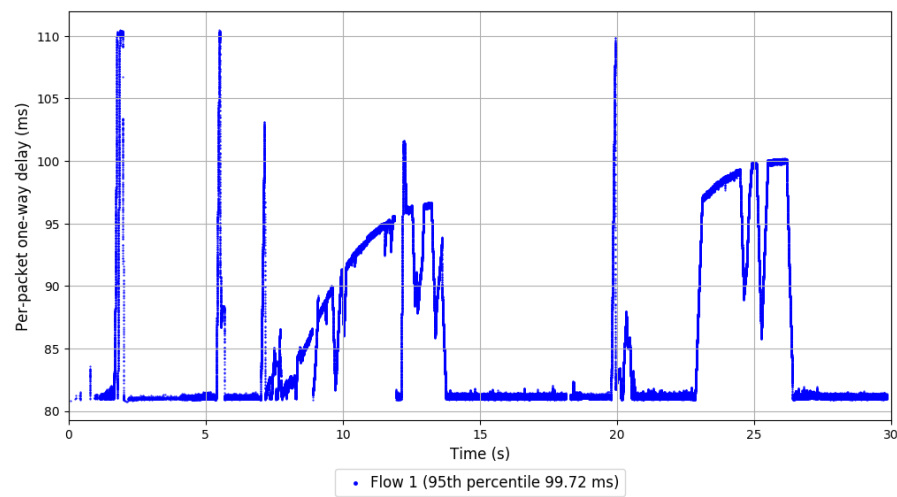
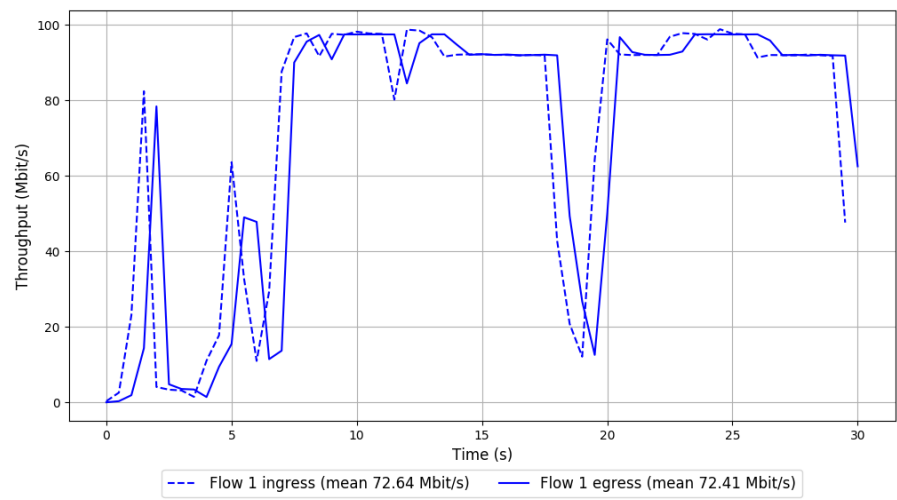
-- Flow 1:

Average throughput: 72.41 Mbit/s

95th percentile per-packet one-way delay: 99.724 ms

Loss rate: 0.32%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-07-03 13:19:46

End at: 2018-07-03 13:20:16

Local clock offset: -1.547 ms

Remote clock offset: 10.283 ms

Below is generated by plot.py at 2018-07-03 13:58:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 67.36 Mbit/s

95th percentile per-packet one-way delay: 94.943 ms

Loss rate: 0.42%

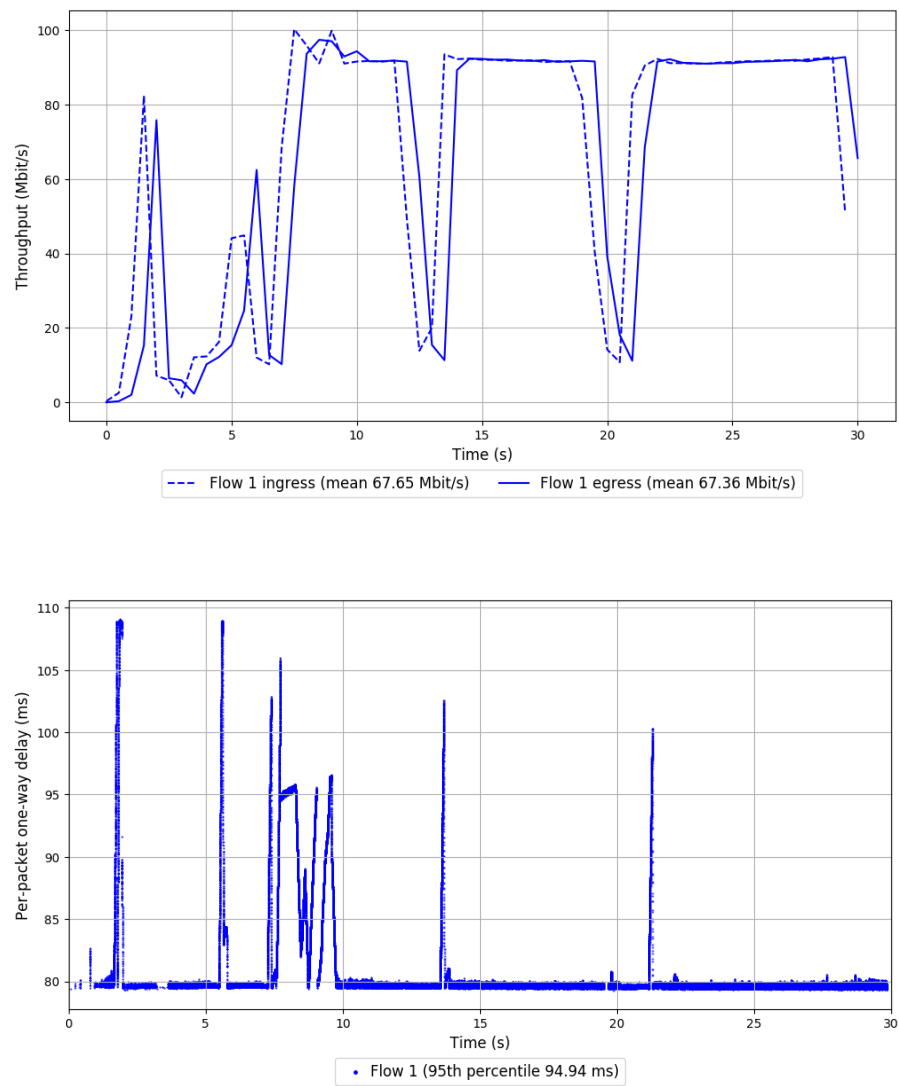
-- Flow 1:

Average throughput: 67.36 Mbit/s

95th percentile per-packet one-way delay: 94.943 ms

Loss rate: 0.42%

Run 9: Report of QUIC Cubic — Data Link

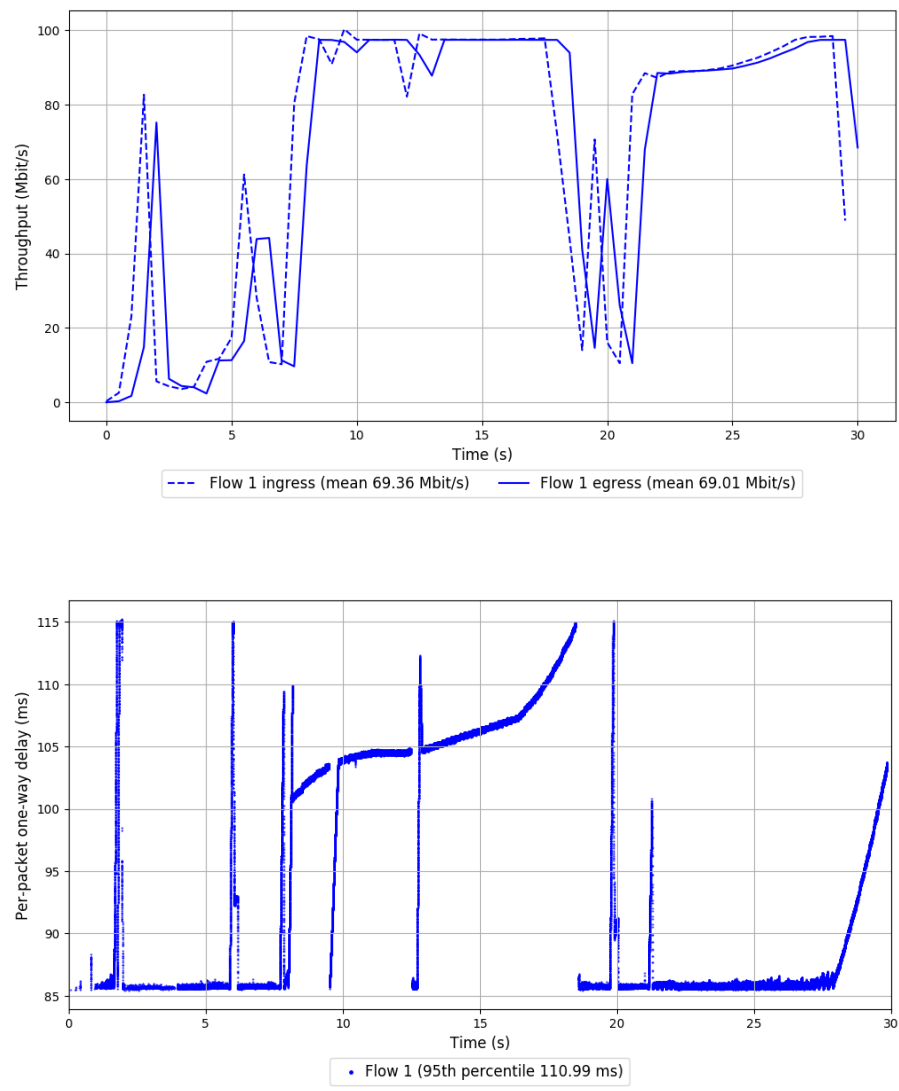


Run 10: Statistics of QUIC Cubic

Start at: 2018-07-03 13:39:40
End at: 2018-07-03 13:40:10
Local clock offset: -1.353 ms
Remote clock offset: 20.527 ms

Below is generated by plot.py at 2018-07-03 13:58:21
Datalink statistics
-- Total of 1 flow:
Average throughput: 69.01 Mbit/s
95th percentile per-packet one-way delay: 110.990 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 69.01 Mbit/s
95th percentile per-packet one-way delay: 110.990 ms
Loss rate: 0.44%

Run 10: Report of QUIC Cubic — Data Link

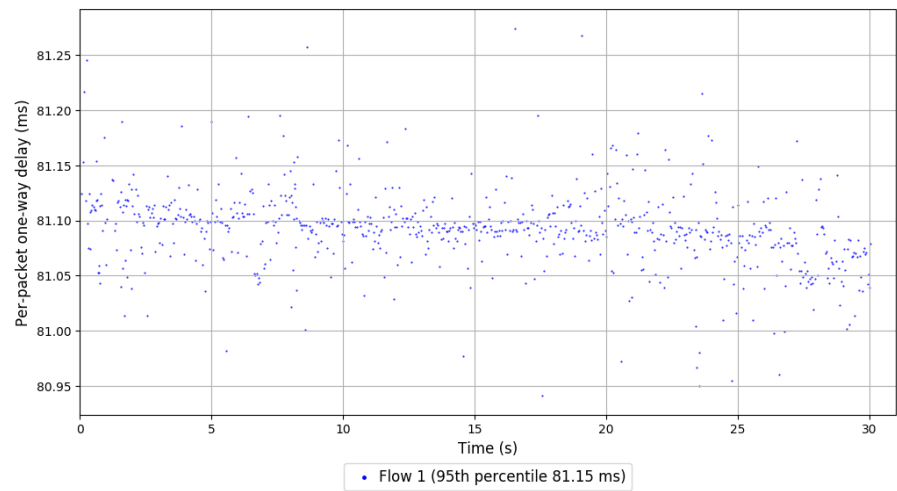
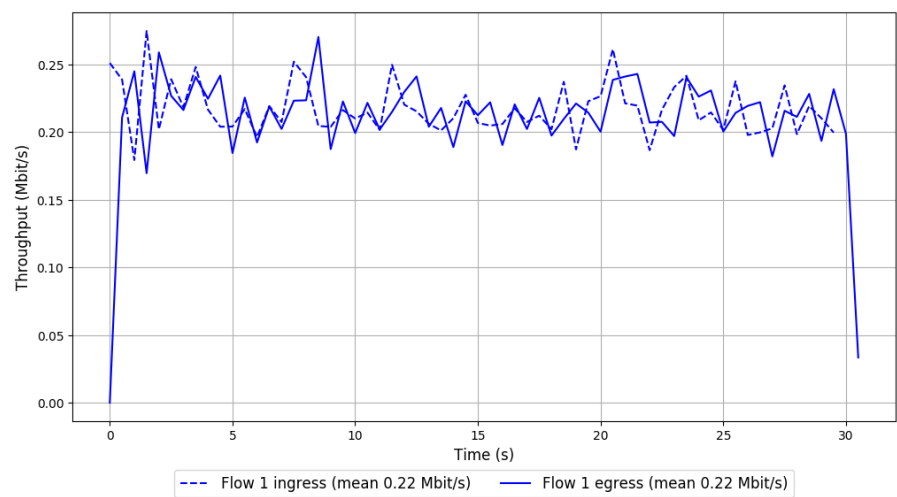


```
Run 1: Statistics of SCReAM

Start at: 2018-07-03 10:39:31
End at: 2018-07-03 10:40:01
Local clock offset: -8.005 ms
Remote clock offset: 10.402 ms

# Below is generated by plot.py at 2018-07-03 13:58:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 81.147 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 81.147 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2018-07-03 10:59:21

End at: 2018-07-03 10:59:51

Local clock offset: -2.063 ms

Remote clock offset: 5.088 ms

Below is generated by plot.py at 2018-07-03 13:58:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 79.718 ms

Loss rate: 0.00%

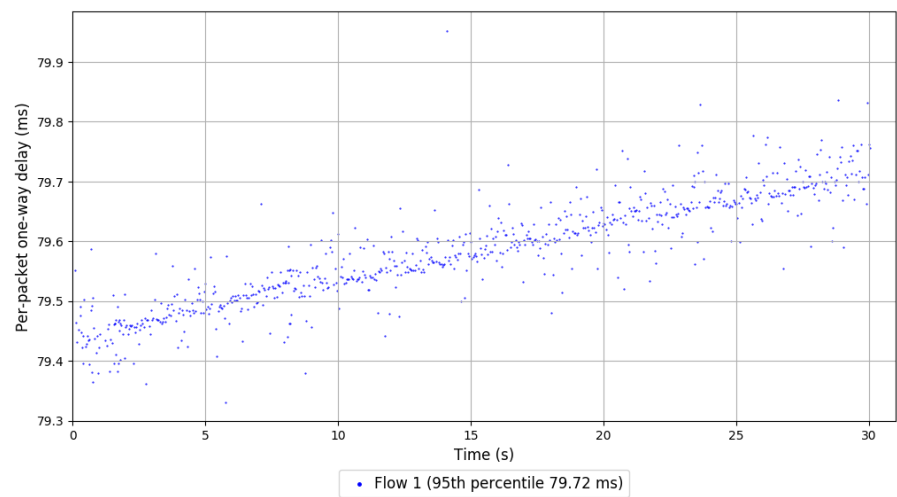
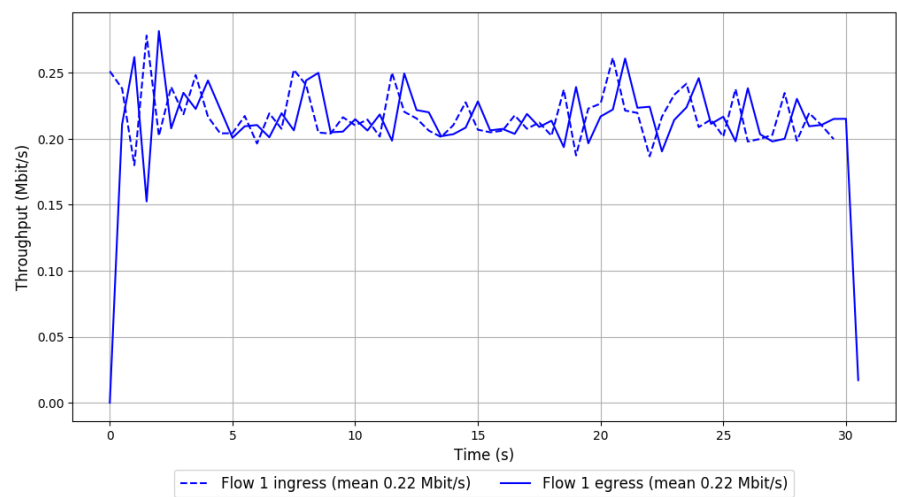
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 79.718 ms

Loss rate: 0.00%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-07-03 11:19:12

End at: 2018-07-03 11:19:42

Local clock offset: -5.394 ms

Remote clock offset: 0.144 ms

Below is generated by plot.py at 2018-07-03 13:58:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 84.979 ms

Loss rate: 0.00%

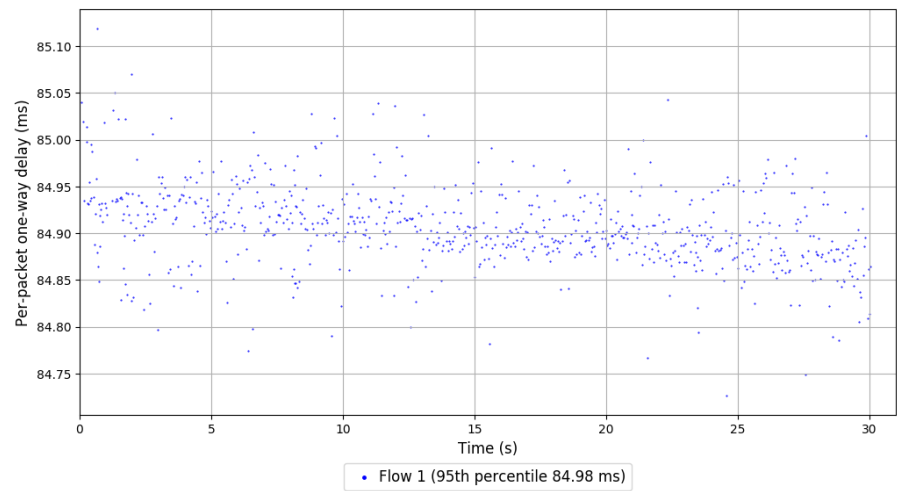
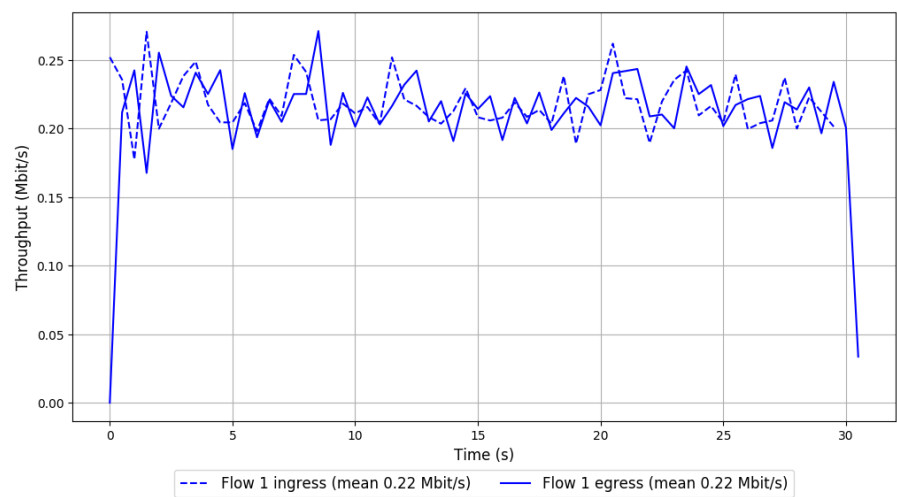
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 84.979 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2018-07-03 11:39:04

End at: 2018-07-03 11:39:34

Local clock offset: -8.391 ms

Remote clock offset: 1.441 ms

Below is generated by plot.py at 2018-07-03 13:58:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 81.743 ms

Loss rate: 0.00%

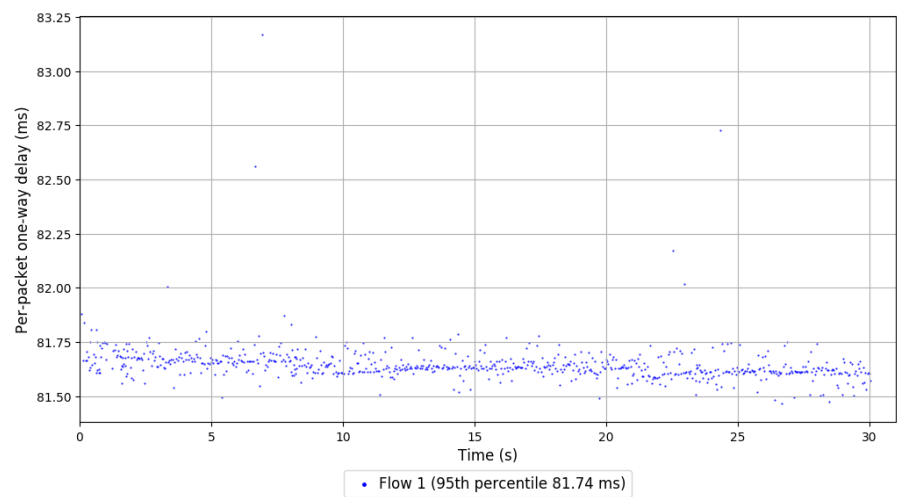
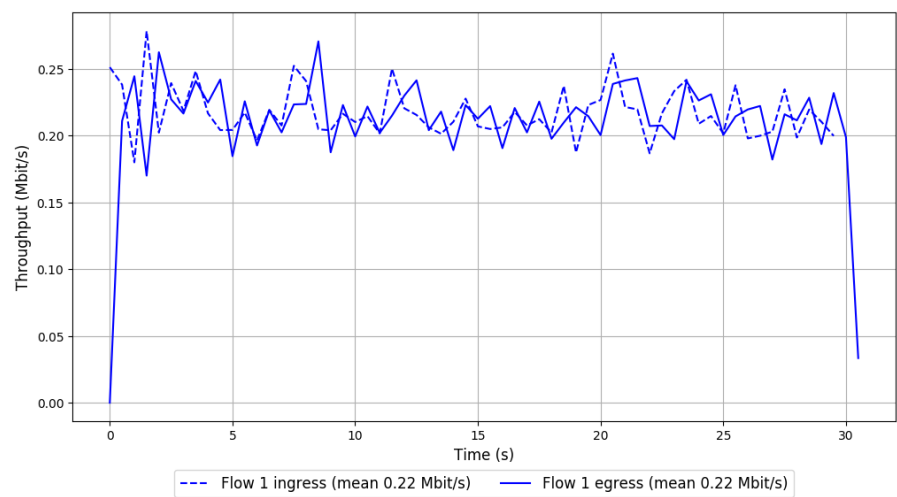
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 81.743 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-07-03 11:58:58

End at: 2018-07-03 11:59:28

Local clock offset: -2.175 ms

Remote clock offset: 6.222 ms

Below is generated by plot.py at 2018-07-03 13:58:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 84.898 ms

Loss rate: 0.00%

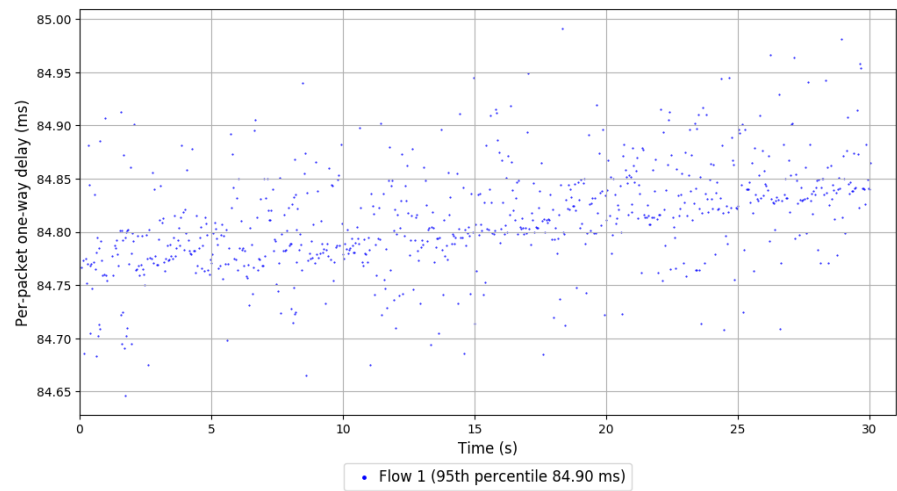
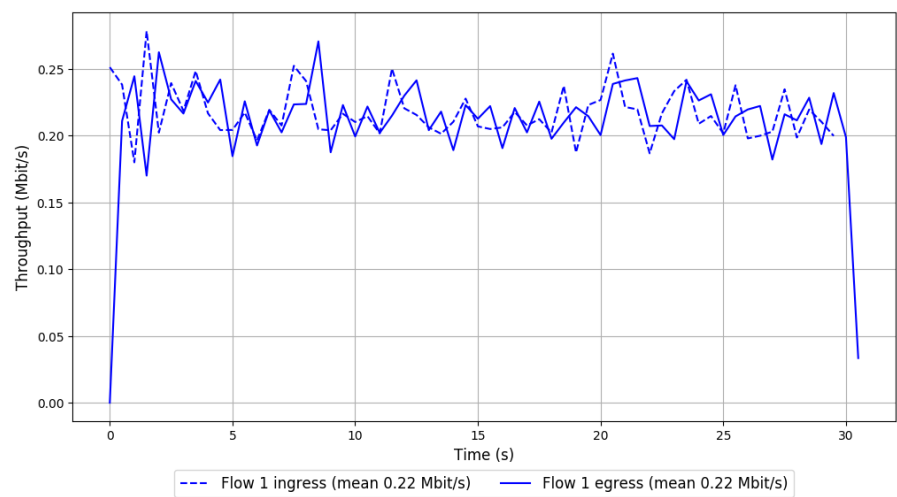
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 84.898 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-07-03 12:18:54

End at: 2018-07-03 12:19:24

Local clock offset: -2.106 ms

Remote clock offset: 7.455 ms

Below is generated by plot.py at 2018-07-03 13:58:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.076 ms

Loss rate: 0.00%

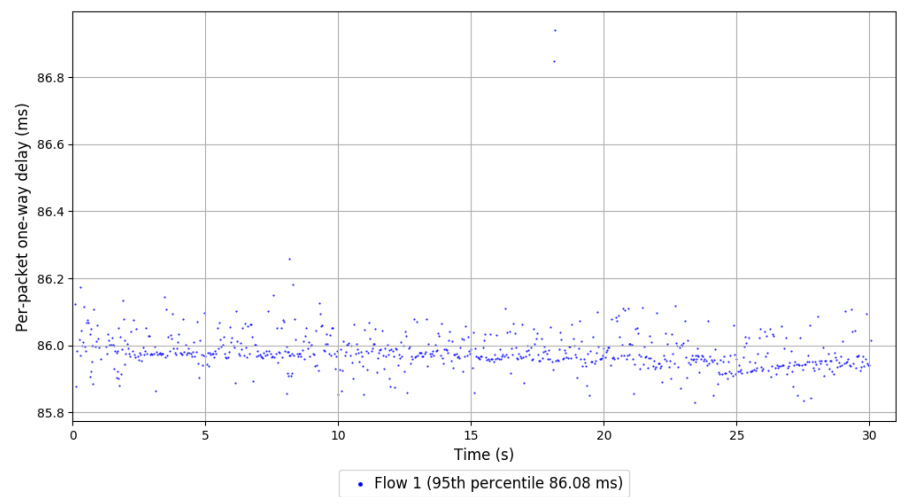
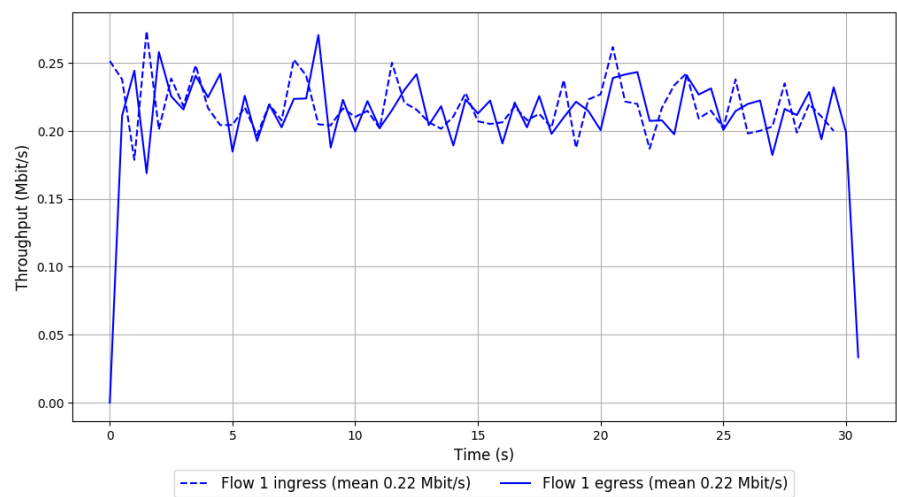
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.076 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link

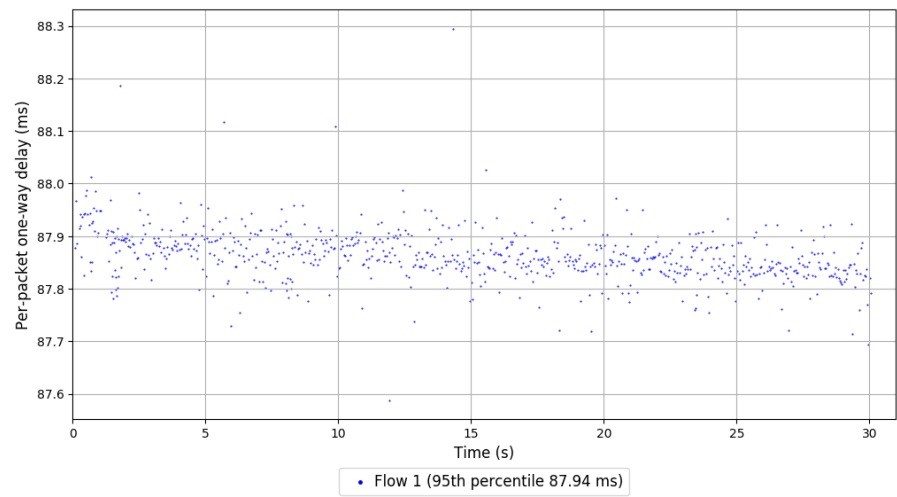
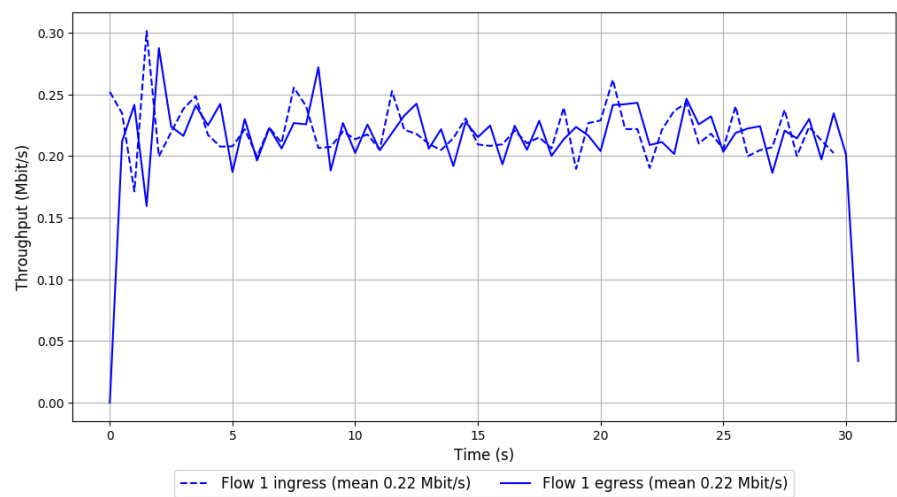


```
Run 7: Statistics of SCReAM

Start at: 2018-07-03 12:38:54
End at: 2018-07-03 12:39:24
Local clock offset: -2.388 ms
Remote clock offset: 4.131 ms

# Below is generated by plot.py at 2018-07-03 13:58:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.941 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.941 ms
Loss rate: 0.00%
```

Run 7: Report of SReAM — Data Link

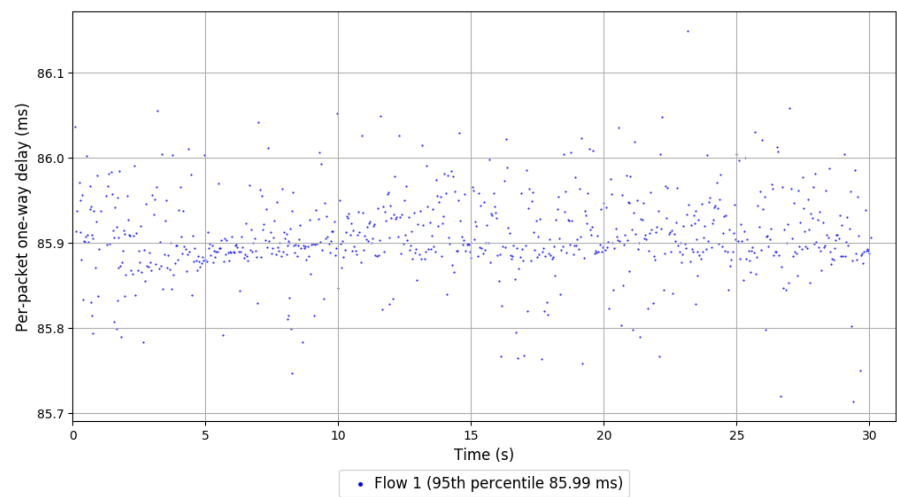
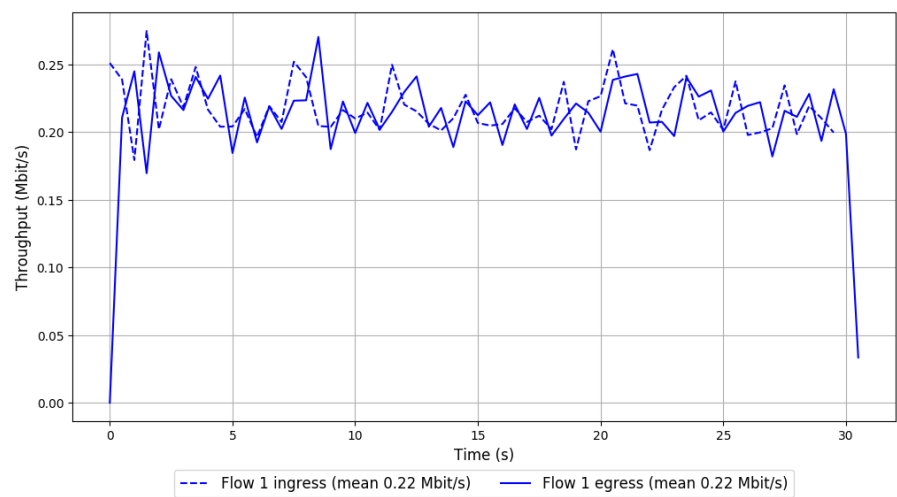


Run 8: Statistics of SCReAM

Start at: 2018-07-03 12:58:46
End at: 2018-07-03 12:59:16
Local clock offset: -1.706 ms
Remote clock offset: 10.207 ms

Below is generated by plot.py at 2018-07-03 13:58:21
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.993 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.993 ms
Loss rate: 0.00%

Run 8: Report of SReAM — Data Link

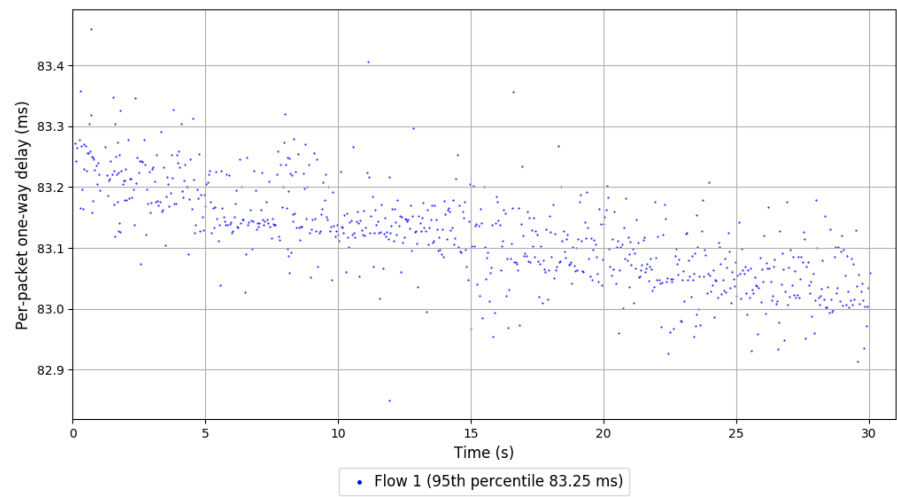
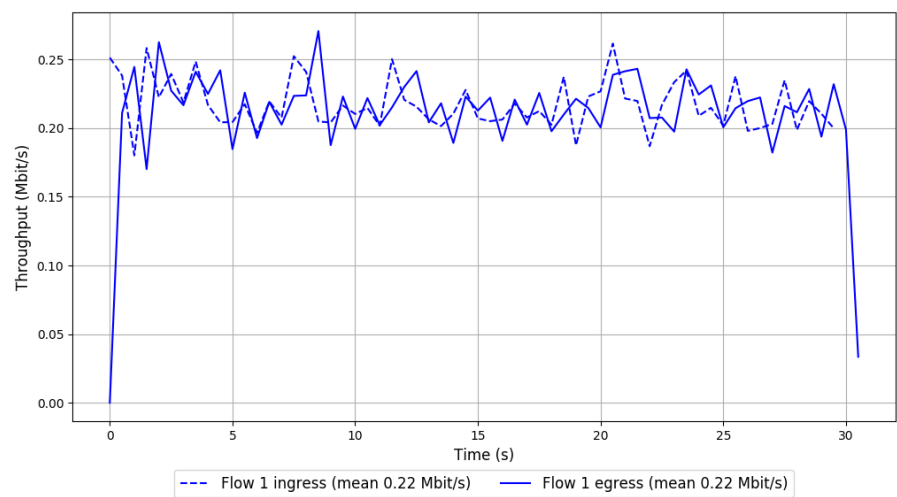


Run 9: Statistics of SCReAM

Start at: 2018-07-03 13:18:40
End at: 2018-07-03 13:19:10
Local clock offset: -1.543 ms
Remote clock offset: 13.813 ms

Below is generated by plot.py at 2018-07-03 13:58:21
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 83.254 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 83.254 ms
Loss rate: 0.00%

Run 9: Report of SReAM — Data Link

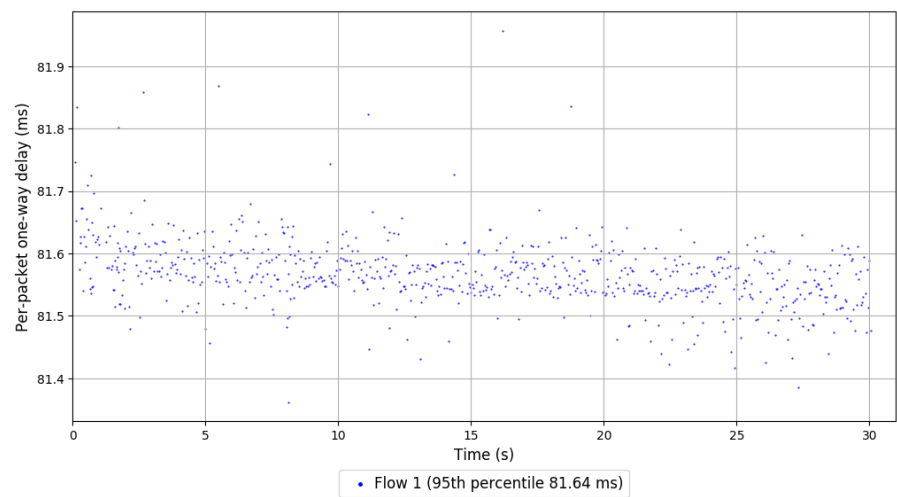
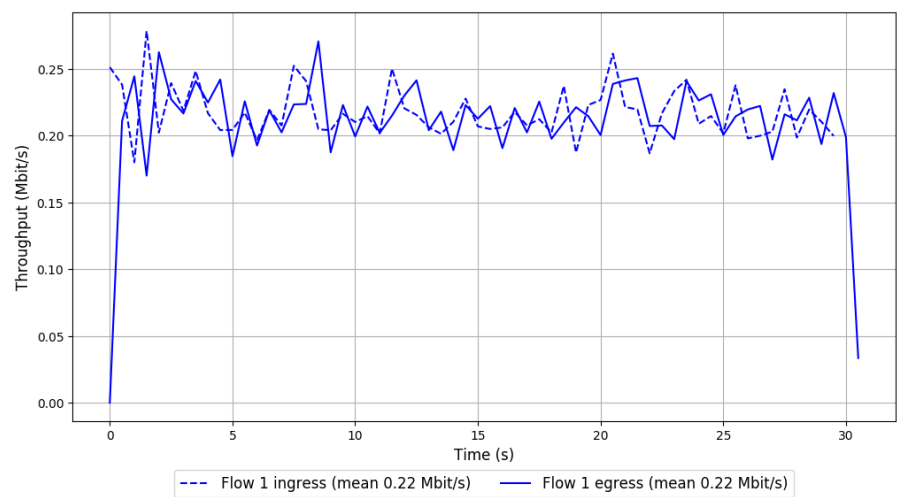


Run 10: Statistics of SReAM

Start at: 2018-07-03 13:38:34
End at: 2018-07-03 13:39:04
Local clock offset: -1.328 ms
Remote clock offset: 14.266 ms

Below is generated by plot.py at 2018-07-03 13:58:21
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 81.643 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 81.643 ms
Loss rate: 0.00%

Run 10: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2018-07-03 10:21:56

End at: 2018-07-03 10:22:27

Local clock offset: -5.972 ms

Remote clock offset: 9.615 ms

Below is generated by plot.py at 2018-07-03 13:58:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.30 Mbit/s

95th percentile per-packet one-way delay: 81.641 ms

Loss rate: 0.00%

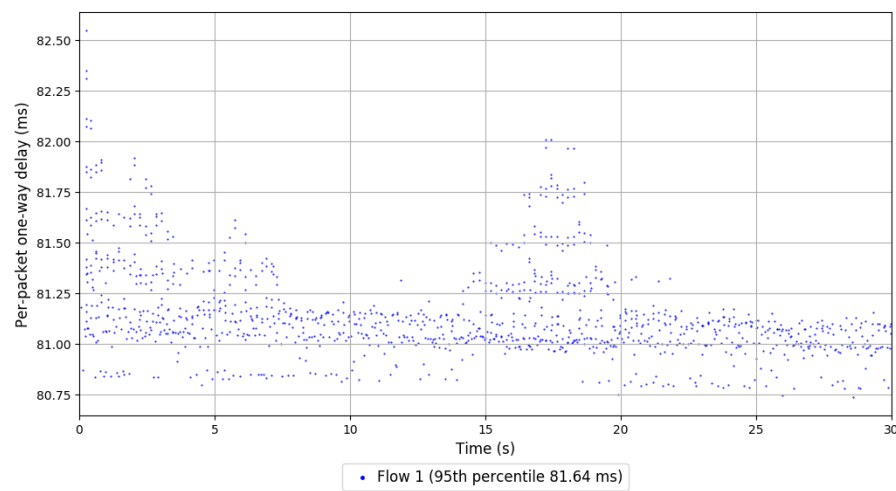
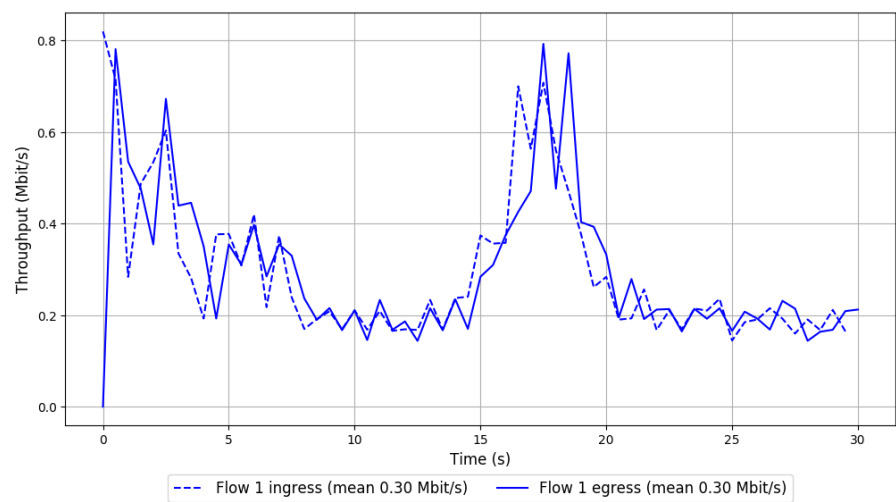
-- Flow 1:

Average throughput: 0.30 Mbit/s

95th percentile per-packet one-way delay: 81.641 ms

Loss rate: 0.00%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-07-03 10:41:47

End at: 2018-07-03 10:42:17

Local clock offset: -7.337 ms

Remote clock offset: 9.323 ms

Below is generated by plot.py at 2018-07-03 13:58:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.31 Mbit/s

95th percentile per-packet one-way delay: 82.786 ms

Loss rate: 0.00%

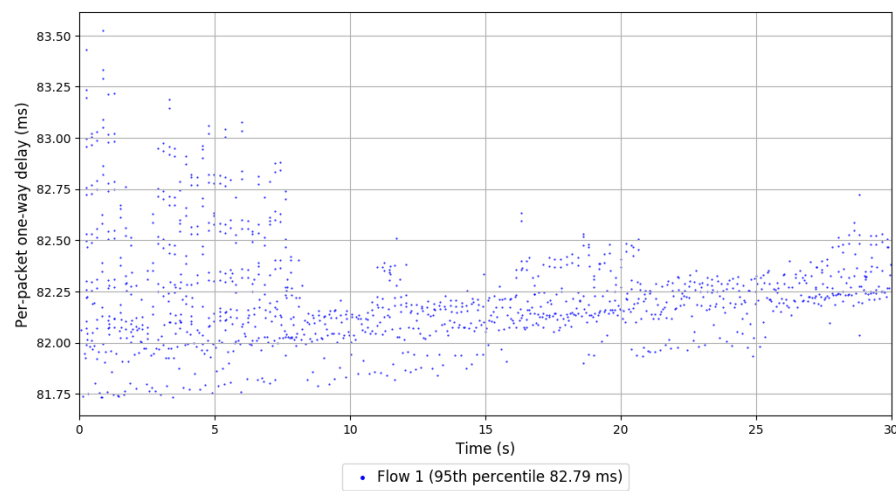
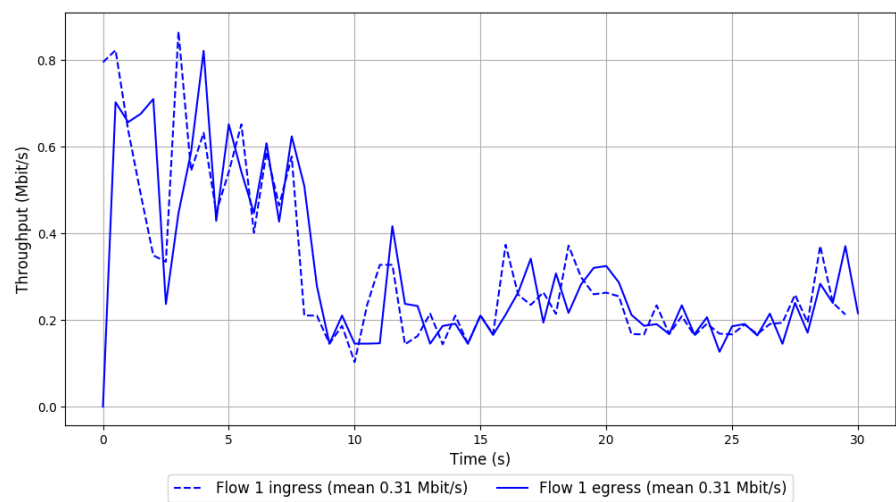
-- Flow 1:

Average throughput: 0.31 Mbit/s

95th percentile per-packet one-way delay: 82.786 ms

Loss rate: 0.00%

Run 2: Report of Sprout — Data Link

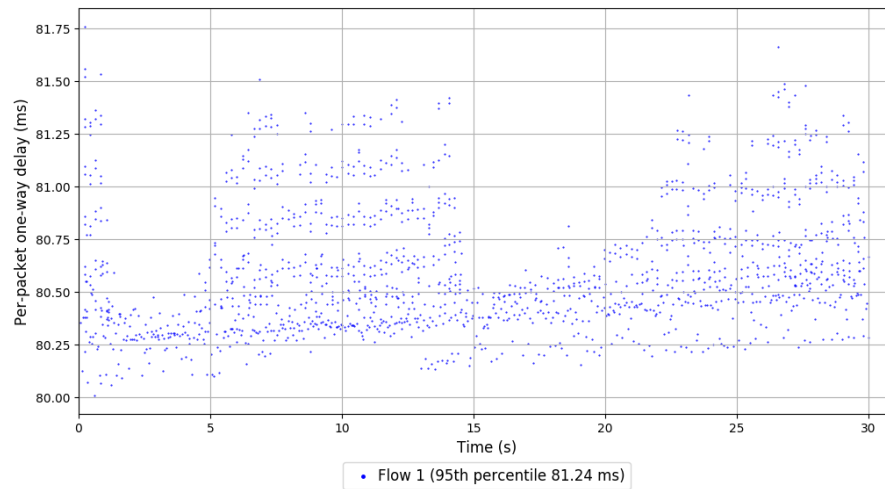
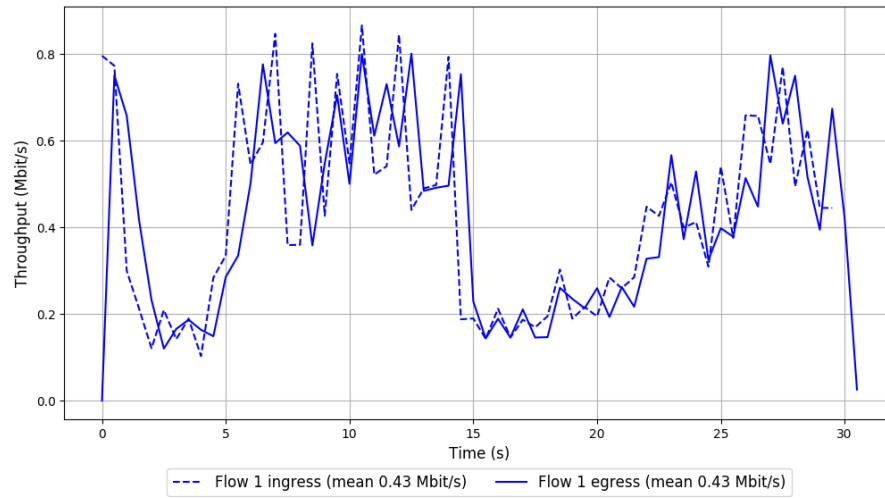


Run 3: Statistics of Sprout

Start at: 2018-07-03 11:01:38
End at: 2018-07-03 11:02:08
Local clock offset: -1.813 ms
Remote clock offset: 4.136 ms

Below is generated by plot.py at 2018-07-03 13:58:21
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 81.236 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 81.236 ms
Loss rate: 0.00%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-07-03 11:21:29

End at: 2018-07-03 11:21:59

Local clock offset: -5.977 ms

Remote clock offset: 0.956 ms

Below is generated by plot.py at 2018-07-03 13:58:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 82.716 ms

Loss rate: 0.00%

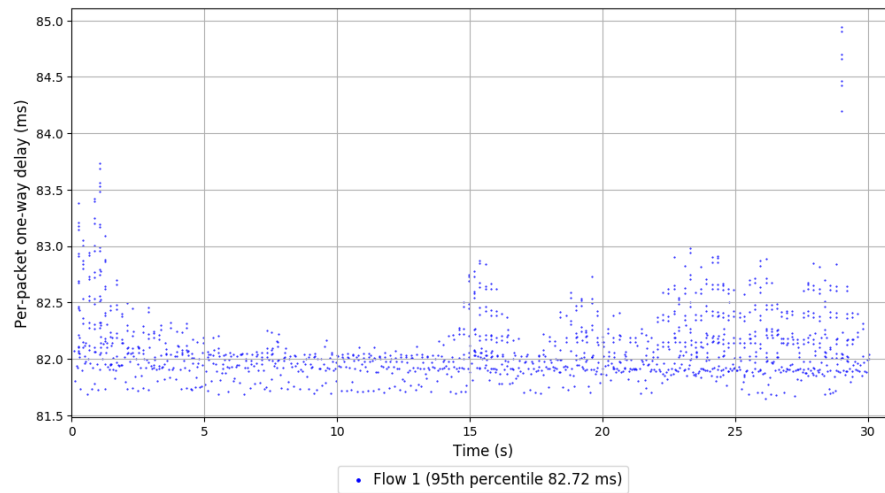
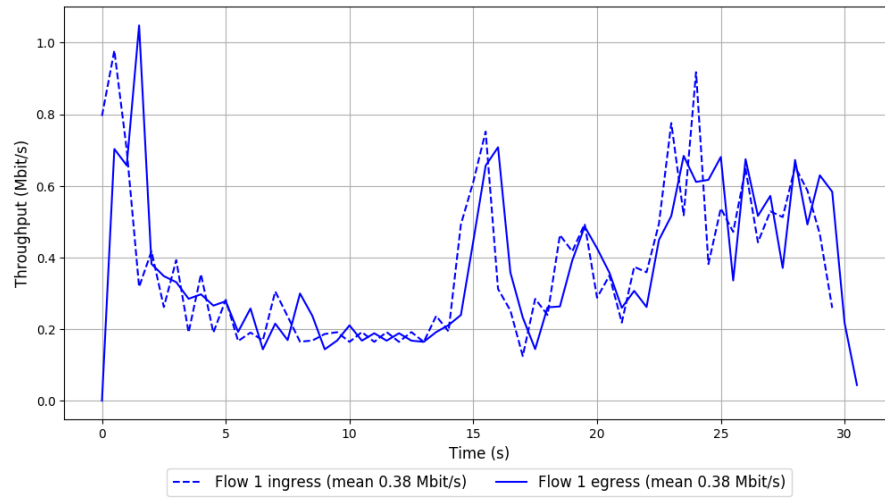
-- Flow 1:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 82.716 ms

Loss rate: 0.00%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-07-03 11:41:20

End at: 2018-07-03 11:41:50

Local clock offset: -7.79 ms

Remote clock offset: 1.529 ms

Below is generated by plot.py at 2018-07-03 13:58:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 80.337 ms

Loss rate: 0.00%

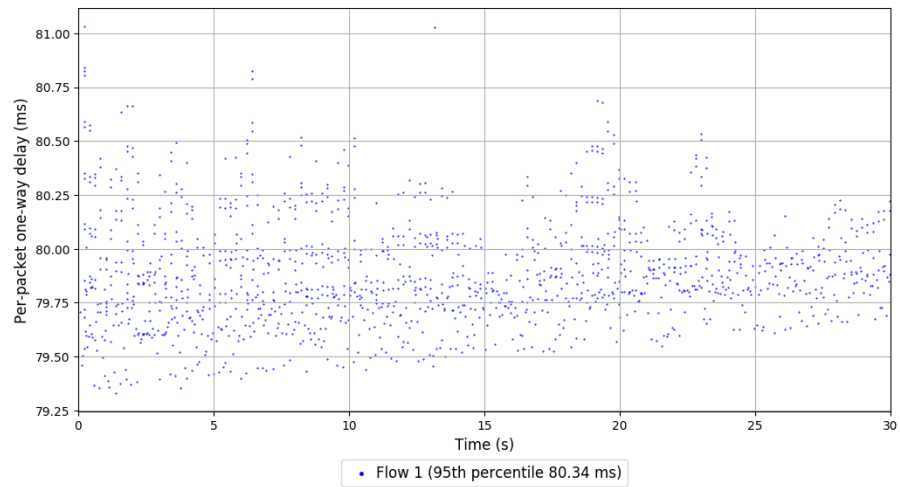
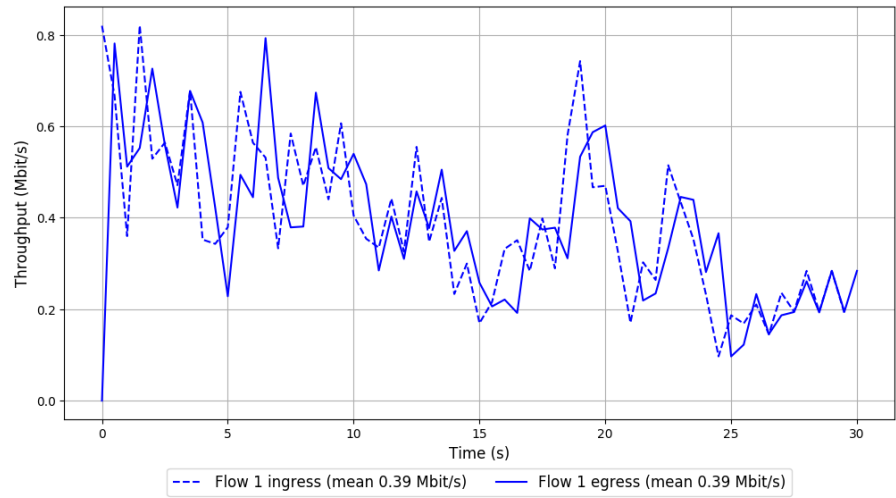
-- Flow 1:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 80.337 ms

Loss rate: 0.00%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-07-03 12:01:15

End at: 2018-07-03 12:01:45

Local clock offset: -1.981 ms

Remote clock offset: 7.214 ms

Below is generated by plot.py at 2018-07-03 13:58:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 88.033 ms

Loss rate: 0.00%

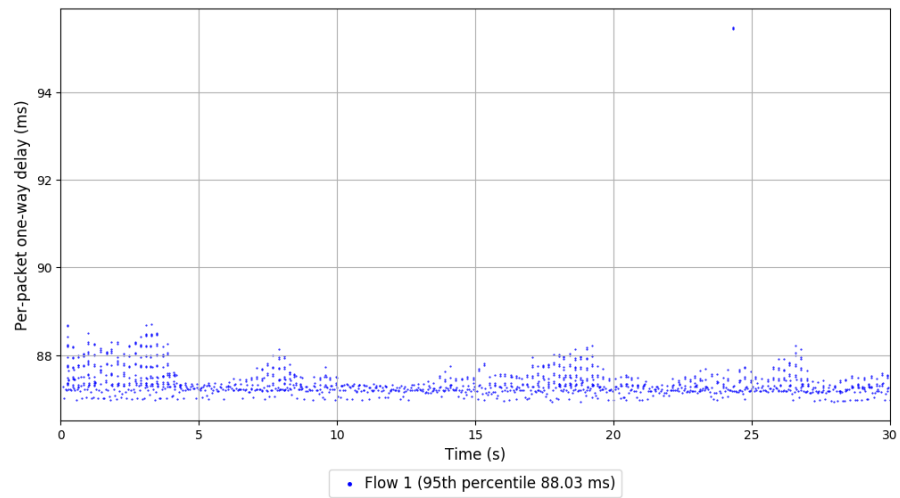
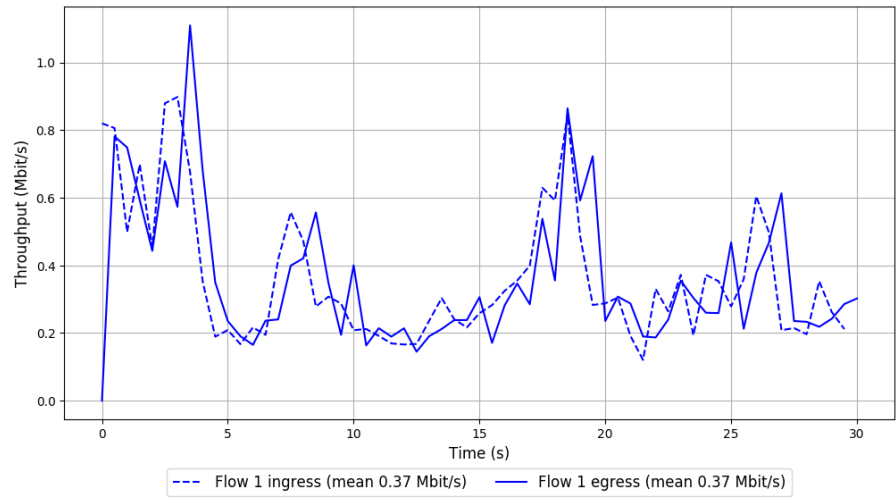
-- Flow 1:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 88.033 ms

Loss rate: 0.00%

Run 6: Report of Sprout — Data Link

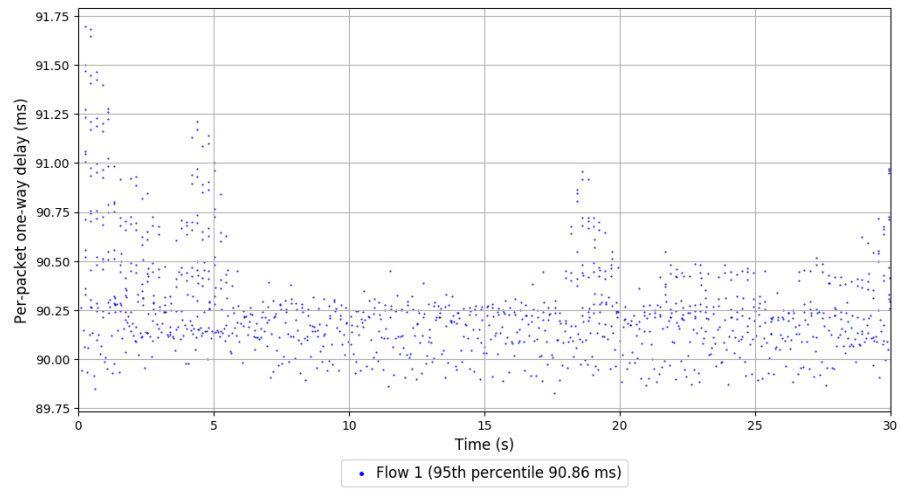
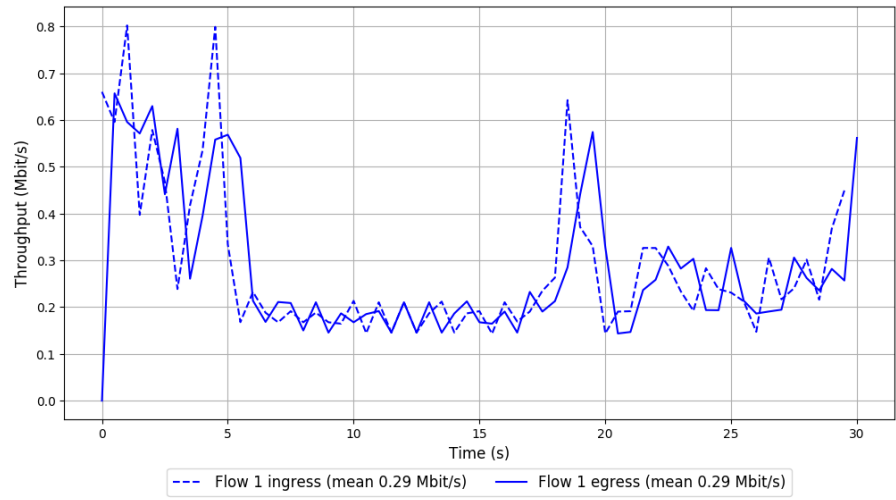


Run 7: Statistics of Sprout

Start at: 2018-07-03 12:21:11
End at: 2018-07-03 12:21:41
Local clock offset: -2.229 ms
Remote clock offset: 7.525 ms

Below is generated by plot.py at 2018-07-03 13:58:21
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.29 Mbit/s
95th percentile per-packet one-way delay: 90.863 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 0.29 Mbit/s
95th percentile per-packet one-way delay: 90.863 ms
Loss rate: 0.01%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-07-03 12:41:10

End at: 2018-07-03 12:41:40

Local clock offset: -2.338 ms

Remote clock offset: 3.265 ms

Below is generated by plot.py at 2018-07-03 13:58:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.28 Mbit/s

95th percentile per-packet one-way delay: 81.457 ms

Loss rate: 0.00%

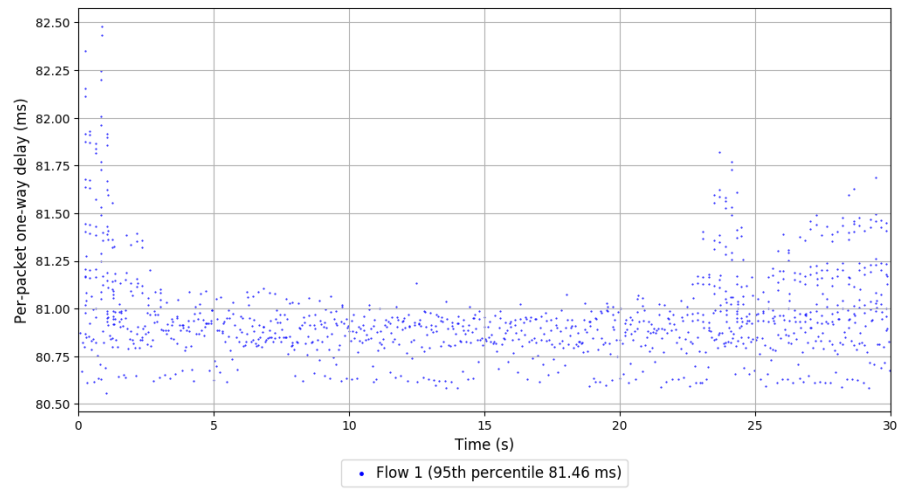
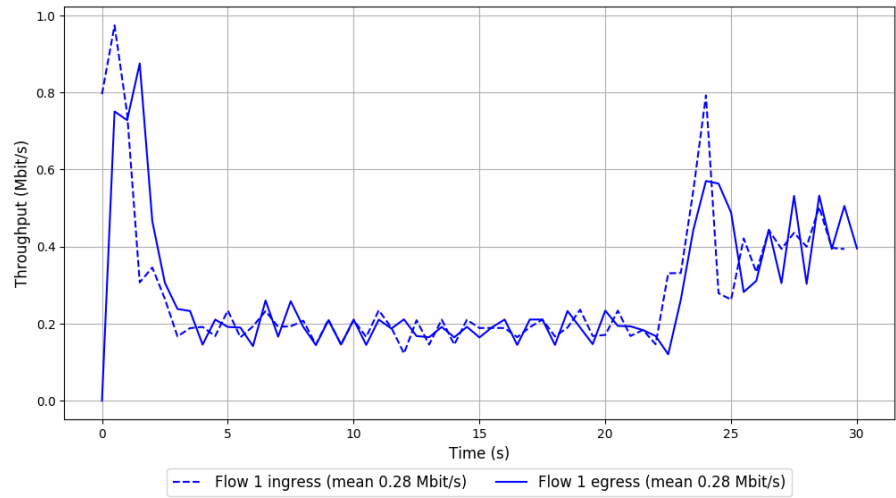
-- Flow 1:

Average throughput: 0.28 Mbit/s

95th percentile per-packet one-way delay: 81.457 ms

Loss rate: 0.00%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-07-03 13:01:03

End at: 2018-07-03 13:01:33

Local clock offset: -1.665 ms

Remote clock offset: 5.109 ms

Below is generated by plot.py at 2018-07-03 13:58:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 81.925 ms

Loss rate: 0.00%

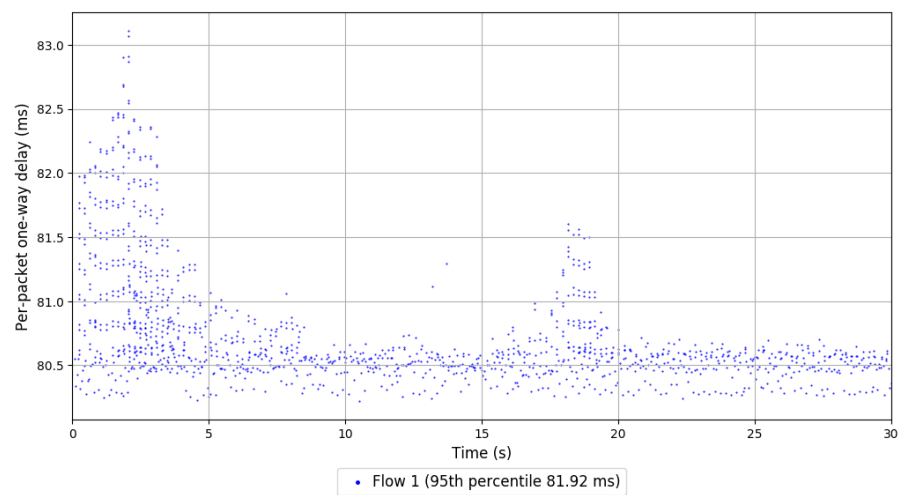
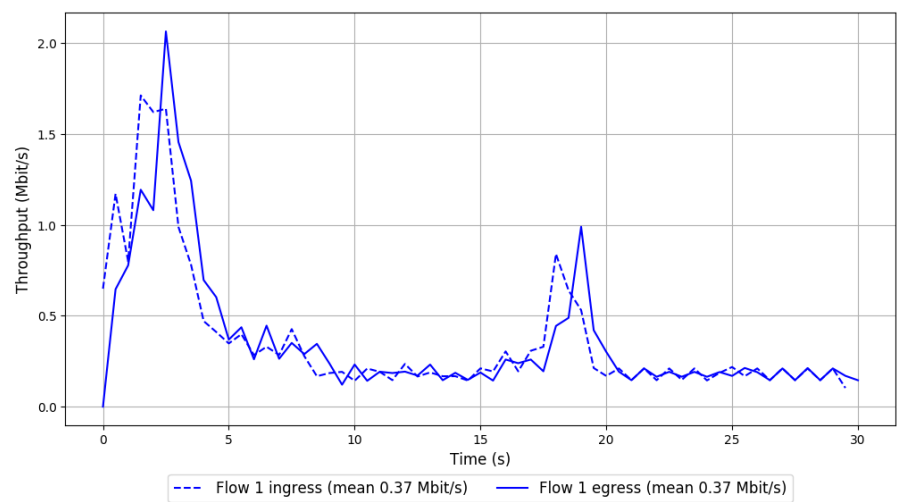
-- Flow 1:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 81.925 ms

Loss rate: 0.00%

Run 9: Report of Sprout — Data Link

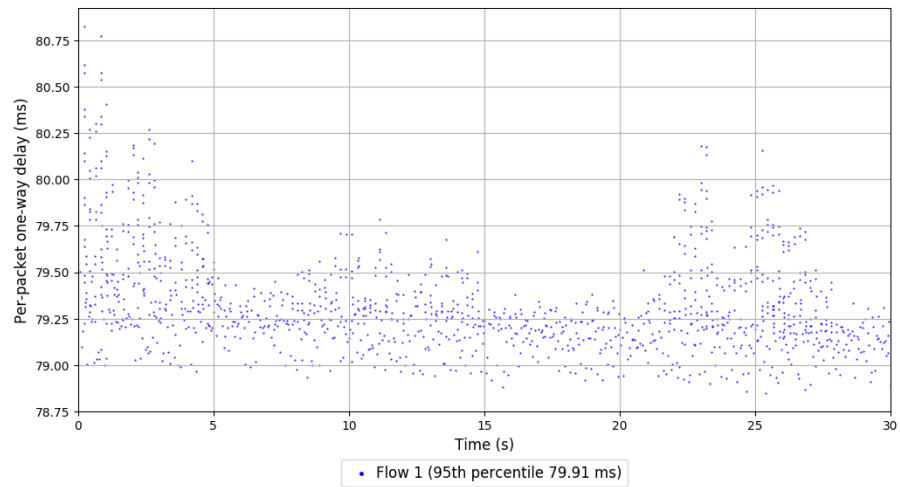
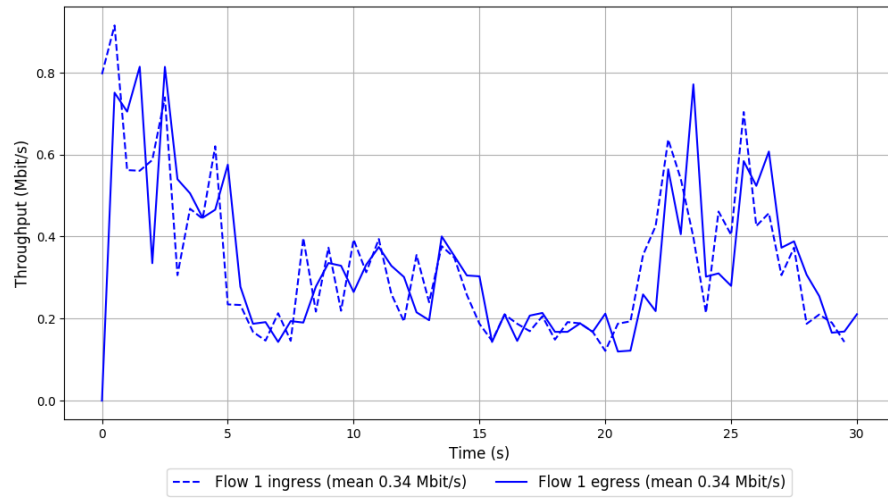


Run 10: Statistics of Sprout

Start at: 2018-07-03 13:20:56
End at: 2018-07-03 13:21:26
Local clock offset: -1.545 ms
Remote clock offset: 10.715 ms

Below is generated by plot.py at 2018-07-03 13:58:21
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.34 Mbit/s
95th percentile per-packet one-way delay: 79.908 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.34 Mbit/s
95th percentile per-packet one-way delay: 79.908 ms
Loss rate: 0.00%

Run 10: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

Start at: 2018-07-03 10:35:54

End at: 2018-07-03 10:36:24

Local clock offset: -7.697 ms

Remote clock offset: 9.347 ms

Below is generated by plot.py at 2018-07-03 13:59:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.16 Mbit/s

95th percentile per-packet one-way delay: 106.940 ms

Loss rate: 0.65%

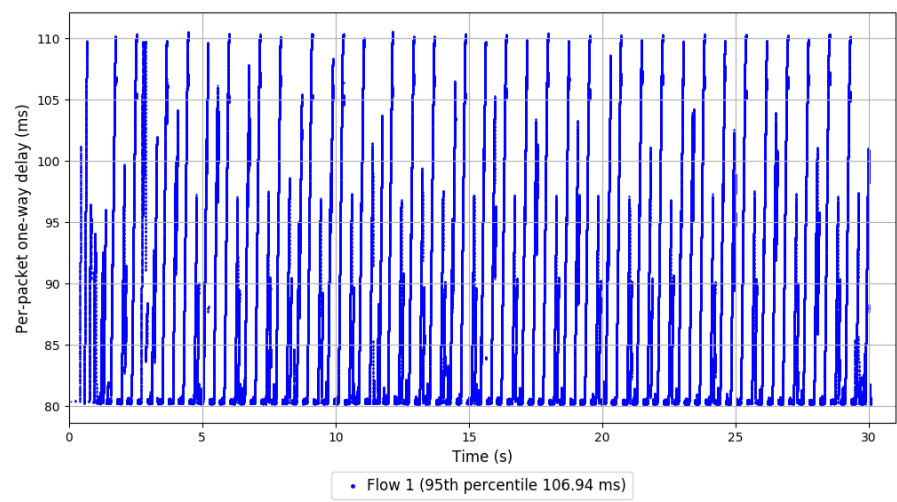
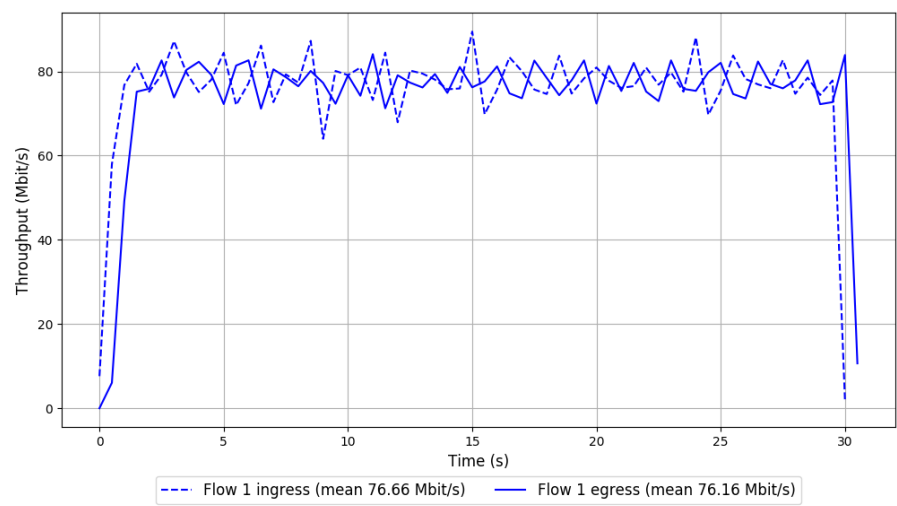
-- Flow 1:

Average throughput: 76.16 Mbit/s

95th percentile per-packet one-way delay: 106.940 ms

Loss rate: 0.65%

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



Run 2: Statistics of TaoVA-100x

Start at: 2018-07-03 10:55:44

End at: 2018-07-03 10:56:15

Local clock offset: -2.522 ms

Remote clock offset: 13.305 ms

Below is generated by plot.py at 2018-07-03 13:59:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.97 Mbit/s

95th percentile per-packet one-way delay: 114.651 ms

Loss rate: 0.66%

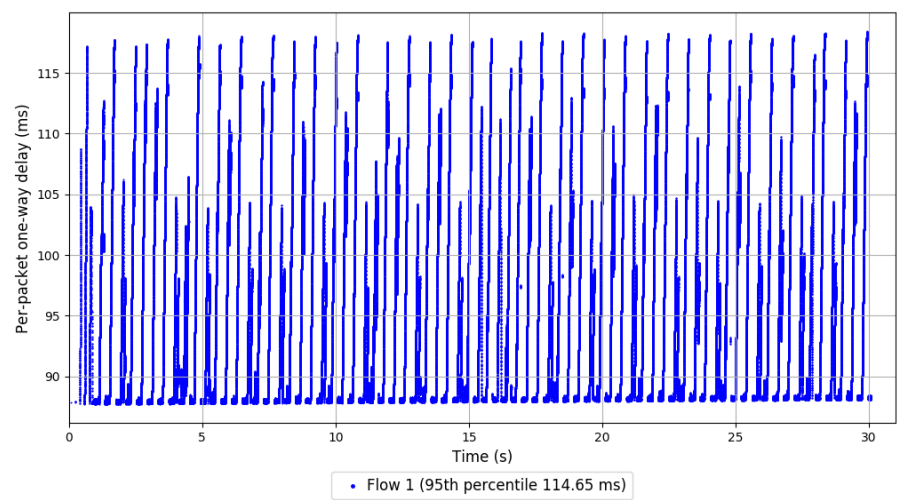
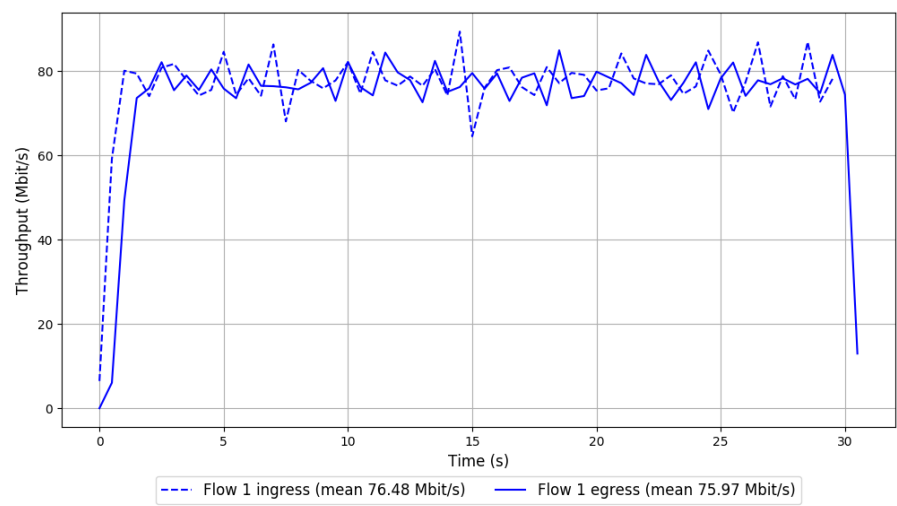
-- Flow 1:

Average throughput: 75.97 Mbit/s

95th percentile per-packet one-way delay: 114.651 ms

Loss rate: 0.66%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-07-03 11:15:34

End at: 2018-07-03 11:16:04

Local clock offset: -4.072 ms

Remote clock offset: 5.721 ms

Below is generated by plot.py at 2018-07-03 13:59:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.16 Mbit/s

95th percentile per-packet one-way delay: 112.645 ms

Loss rate: 0.60%

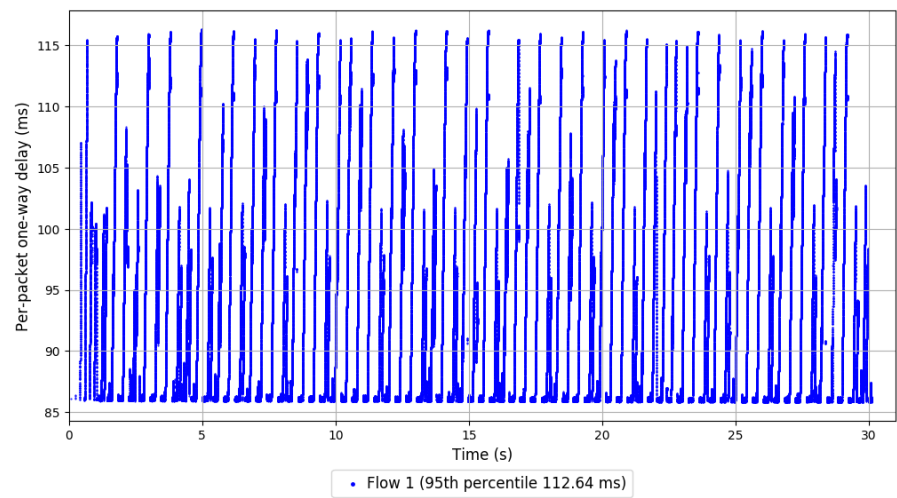
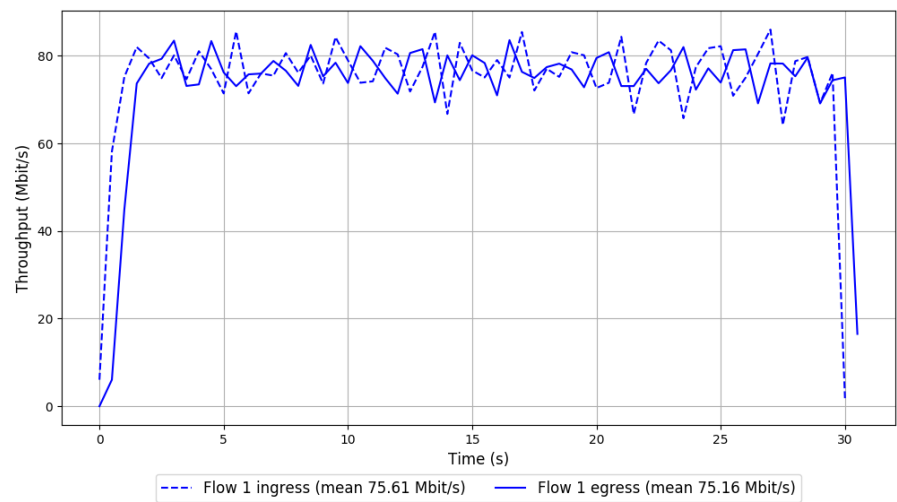
-- Flow 1:

Average throughput: 75.16 Mbit/s

95th percentile per-packet one-way delay: 112.645 ms

Loss rate: 0.60%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-07-03 11:35:26

End at: 2018-07-03 11:35:56

Local clock offset: -8.105 ms

Remote clock offset: 6.137 ms

Below is generated by plot.py at 2018-07-03 13:59:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.37 Mbit/s

95th percentile per-packet one-way delay: 113.813 ms

Loss rate: 0.61%

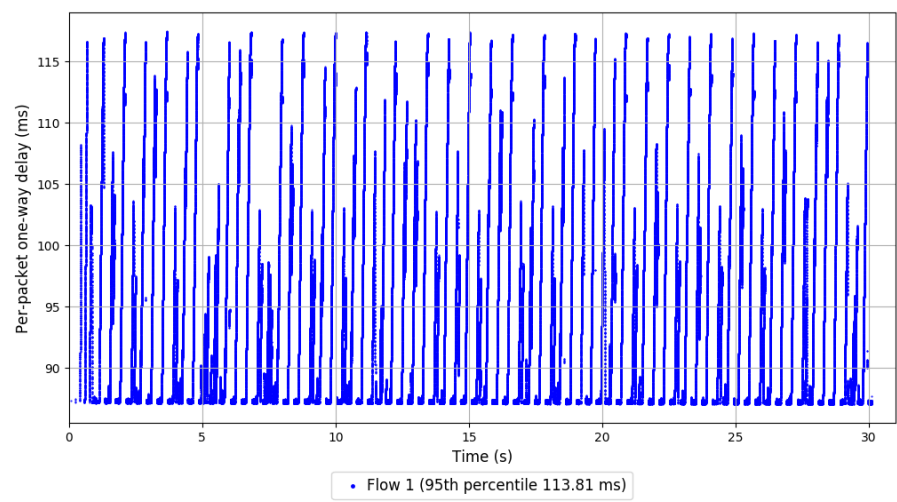
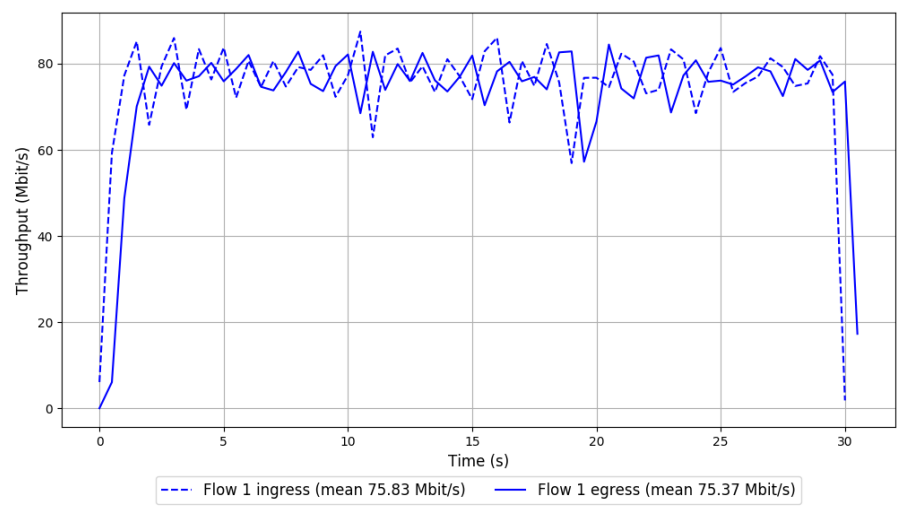
-- Flow 1:

Average throughput: 75.37 Mbit/s

95th percentile per-packet one-way delay: 113.813 ms

Loss rate: 0.61%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-07-03 11:55:20

End at: 2018-07-03 11:55:50

Local clock offset: -2.706 ms

Remote clock offset: 6.381 ms

Below is generated by plot.py at 2018-07-03 14:00:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.24 Mbit/s

95th percentile per-packet one-way delay: 113.723 ms

Loss rate: 0.63%

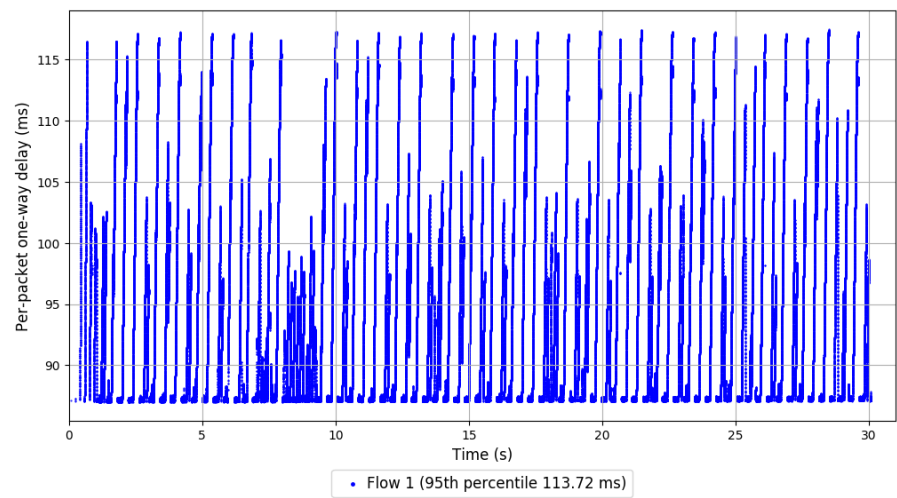
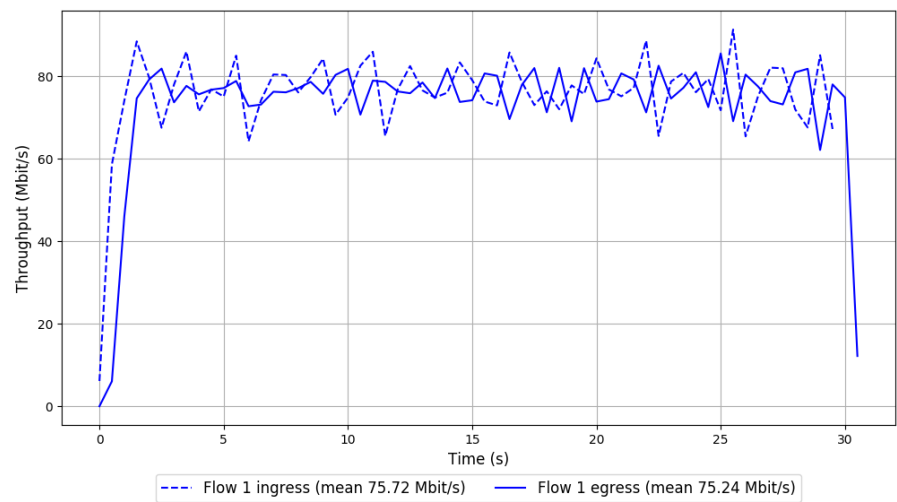
-- Flow 1:

Average throughput: 75.24 Mbit/s

95th percentile per-packet one-way delay: 113.723 ms

Loss rate: 0.63%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-07-03 12:15:15

End at: 2018-07-03 12:15:45

Local clock offset: -1.832 ms

Remote clock offset: 3.605 ms

Below is generated by plot.py at 2018-07-03 14:00:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.19 Mbit/s

95th percentile per-packet one-way delay: 114.084 ms

Loss rate: 0.91%

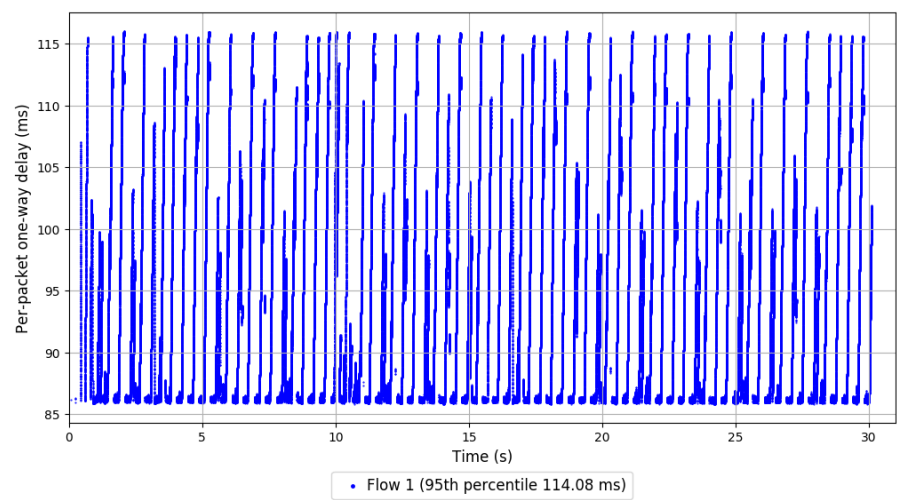
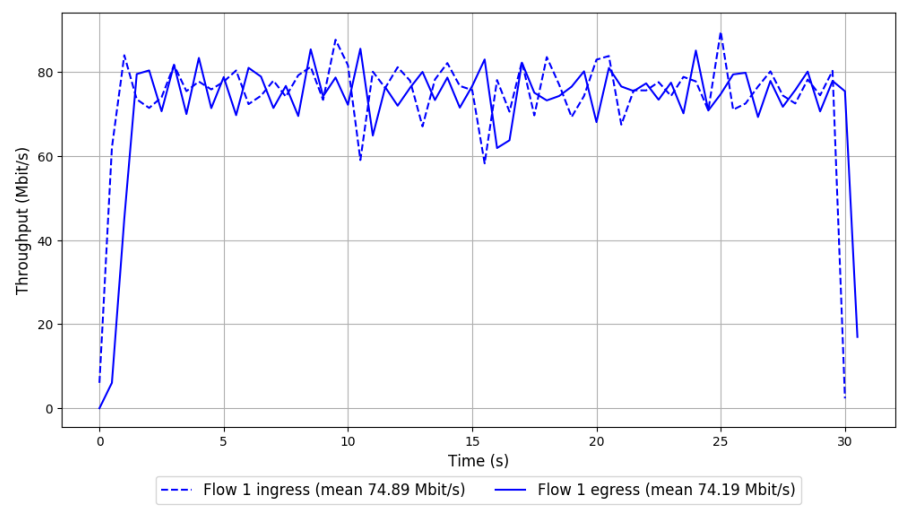
-- Flow 1:

Average throughput: 74.19 Mbit/s

95th percentile per-packet one-way delay: 114.084 ms

Loss rate: 0.91%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-07-03 12:35:17

End at: 2018-07-03 12:35:47

Local clock offset: -2.409 ms

Remote clock offset: 7.543 ms

Below is generated by plot.py at 2018-07-03 14:00:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.45 Mbit/s

95th percentile per-packet one-way delay: 110.991 ms

Loss rate: 0.57%

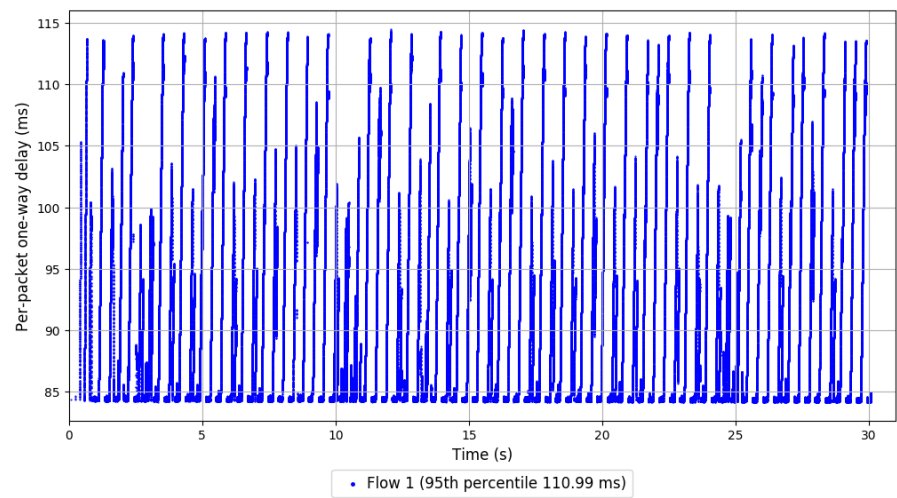
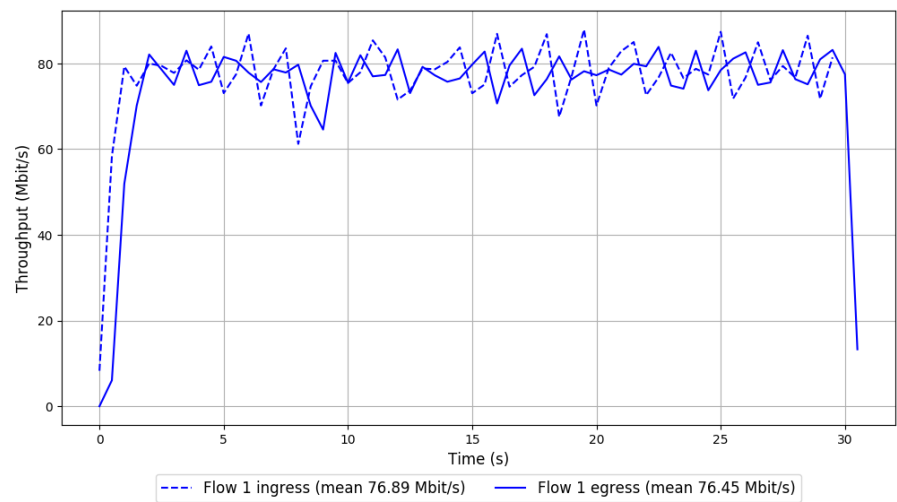
-- Flow 1:

Average throughput: 76.45 Mbit/s

95th percentile per-packet one-way delay: 110.991 ms

Loss rate: 0.57%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-07-03 12:55:09

End at: 2018-07-03 12:55:39

Local clock offset: -1.805 ms

Remote clock offset: 5.102 ms

Below is generated by plot.py at 2018-07-03 14:00:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.08 Mbit/s

95th percentile per-packet one-way delay: 114.379 ms

Loss rate: 0.92%

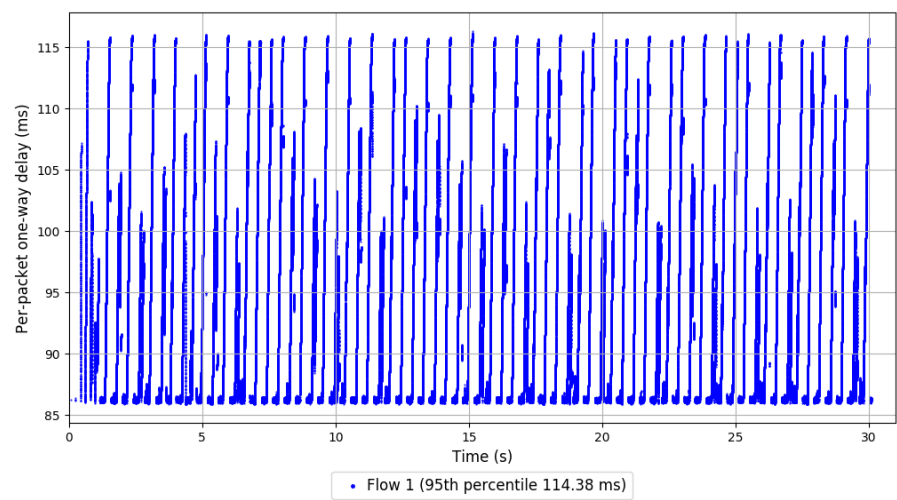
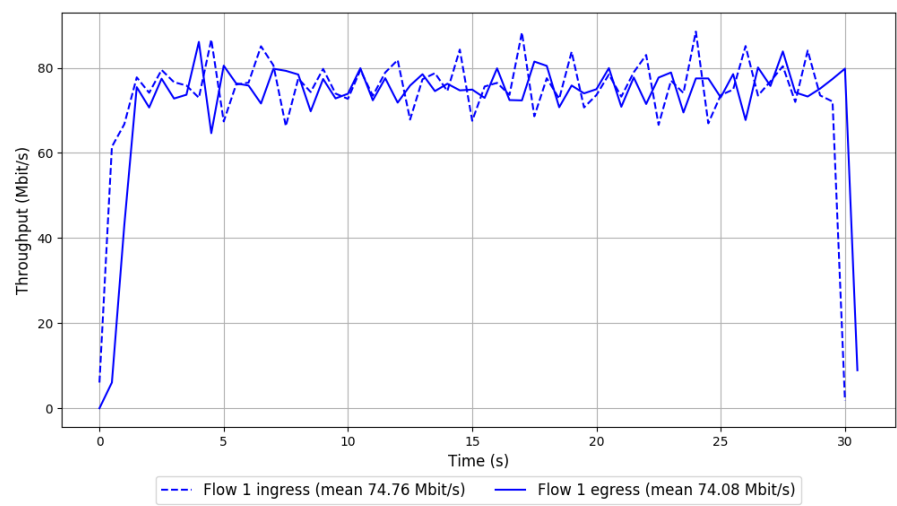
-- Flow 1:

Average throughput: 74.08 Mbit/s

95th percentile per-packet one-way delay: 114.379 ms

Loss rate: 0.92%

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

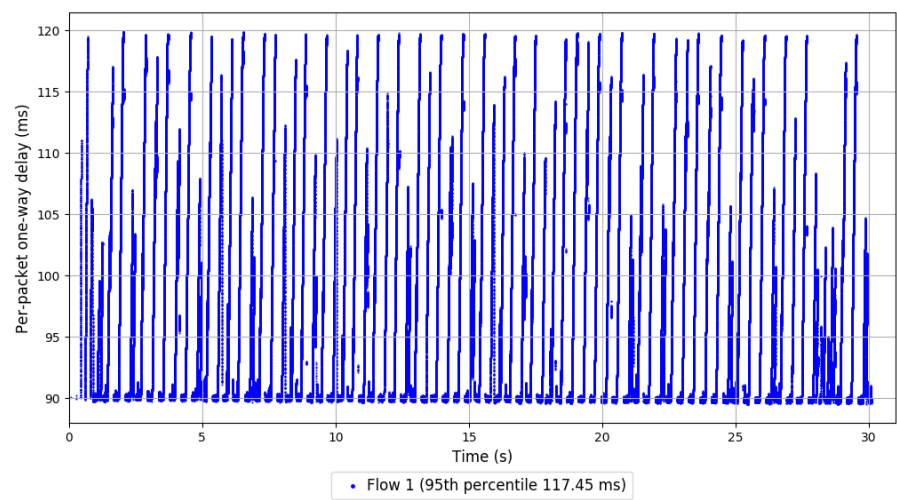
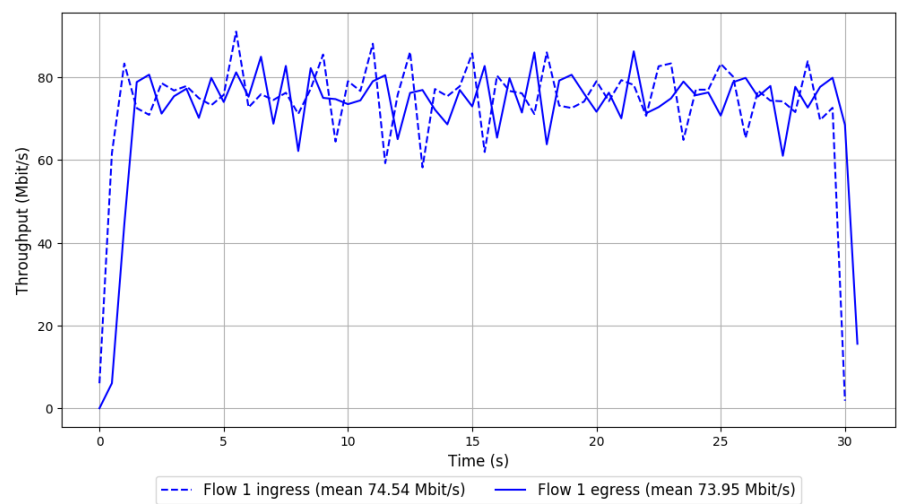


Run 9: Statistics of TaoVA-100x

Start at: 2018-07-03 13:15:02
End at: 2018-07-03 13:15:32
Local clock offset: -1.521 ms
Remote clock offset: 13.275 ms

Below is generated by plot.py at 2018-07-03 14:01:38
Datalink statistics
-- Total of 1 flow:
Average throughput: 73.95 Mbit/s
95th percentile per-packet one-way delay: 117.449 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 73.95 Mbit/s
95th percentile per-packet one-way delay: 117.449 ms
Loss rate: 0.80%

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



Run 10: Statistics of TaoVA-100x

Start at: 2018-07-03 13:34:56

End at: 2018-07-03 13:35:26

Local clock offset: -1.426 ms

Remote clock offset: 13.653 ms

Below is generated by plot.py at 2018-07-03 14:01:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.74 Mbit/s

95th percentile per-packet one-way delay: 105.863 ms

Loss rate: 0.60%

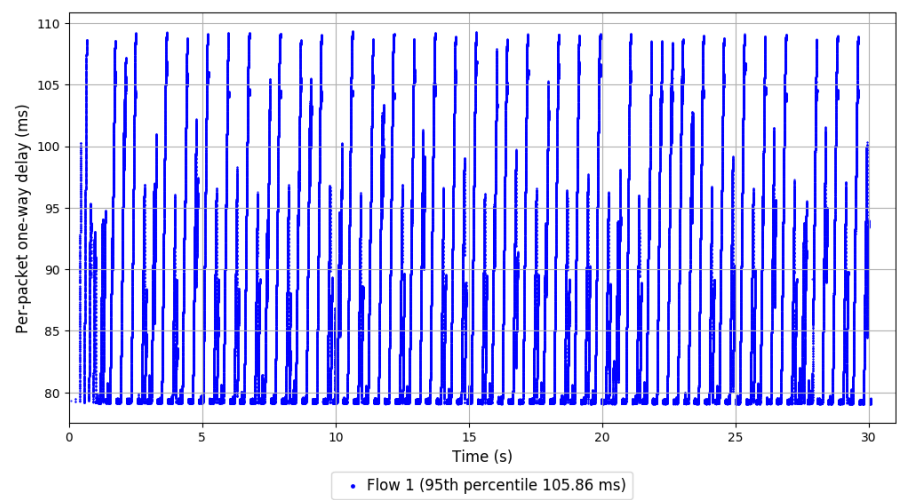
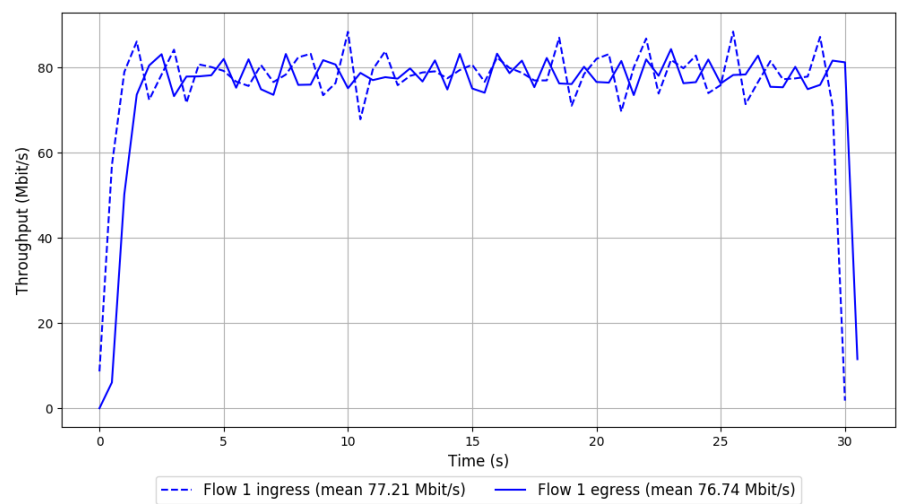
-- Flow 1:

Average throughput: 76.74 Mbit/s

95th percentile per-packet one-way delay: 105.863 ms

Loss rate: 0.60%

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



Run 1: Statistics of TCP Vegas

Start at: 2018-07-03 10:26:36

End at: 2018-07-03 10:27:06

Local clock offset: -6.675 ms

Remote clock offset: 9.529 ms

Below is generated by plot.py at 2018-07-03 14:01:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 40.62 Mbit/s

95th percentile per-packet one-way delay: 79.789 ms

Loss rate: 0.29%

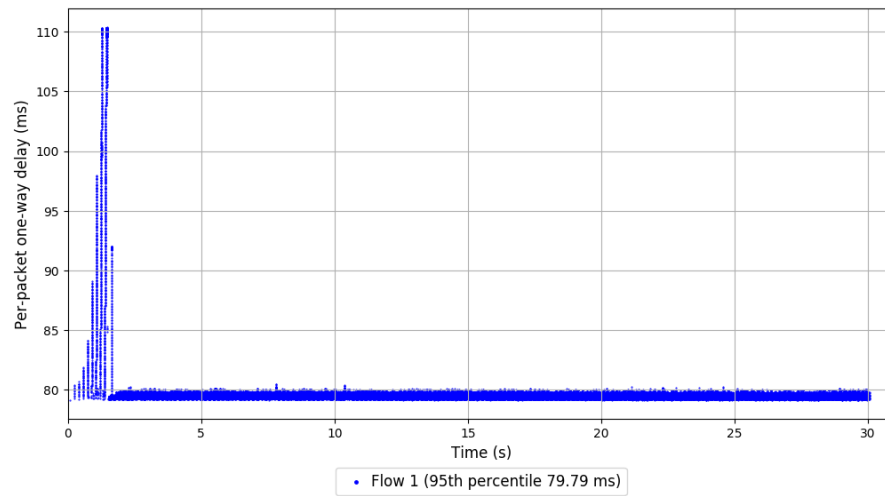
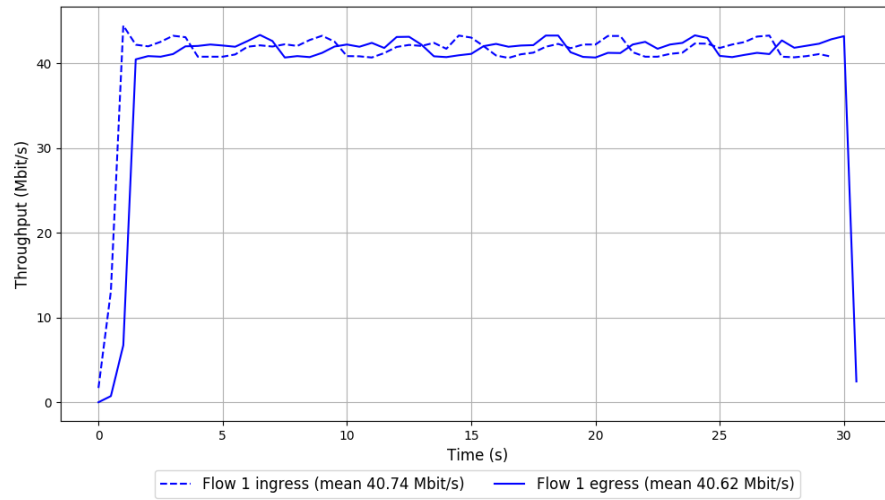
-- Flow 1:

Average throughput: 40.62 Mbit/s

95th percentile per-packet one-way delay: 79.789 ms

Loss rate: 0.29%

Run 1: Report of TCP Vegas — Data Link

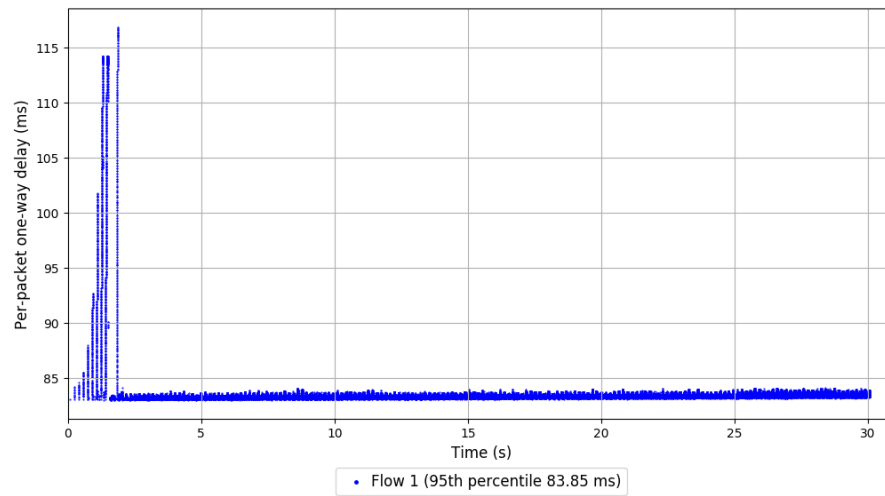
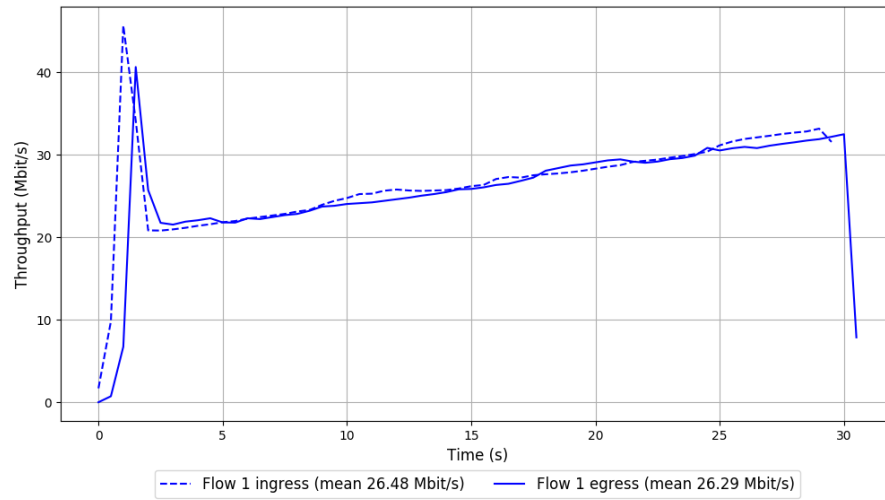


Run 2: Statistics of TCP Vegas

Start at: 2018-07-03 10:46:27
End at: 2018-07-03 10:46:57
Local clock offset: -4.88 ms
Remote clock offset: 10.176 ms

Below is generated by plot.py at 2018-07-03 14:01:41
Datalink statistics
-- Total of 1 flow:
Average throughput: 26.29 Mbit/s
95th percentile per-packet one-way delay: 83.846 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 26.29 Mbit/s
95th percentile per-packet one-way delay: 83.846 ms
Loss rate: 0.71%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-07-03 11:06:16

End at: 2018-07-03 11:06:46

Local clock offset: -1.428 ms

Remote clock offset: 2.739 ms

Below is generated by plot.py at 2018-07-03 14:01:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 38.94 Mbit/s

95th percentile per-packet one-way delay: 87.583 ms

Loss rate: 0.33%

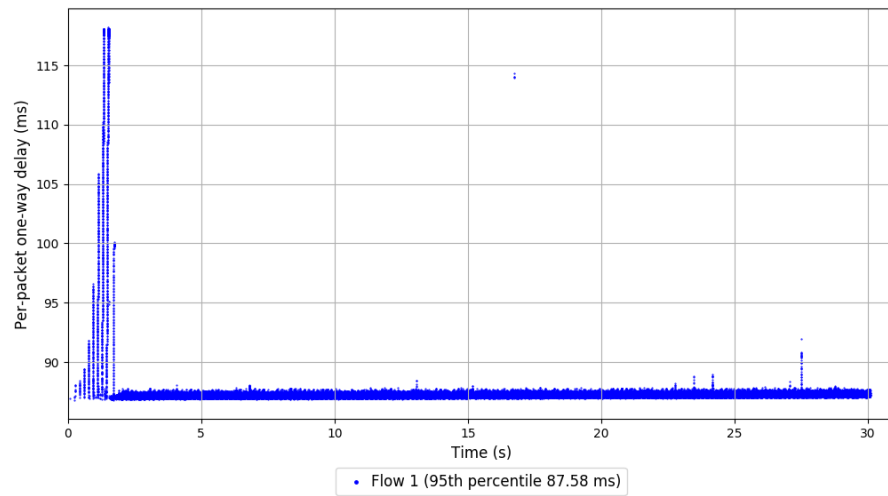
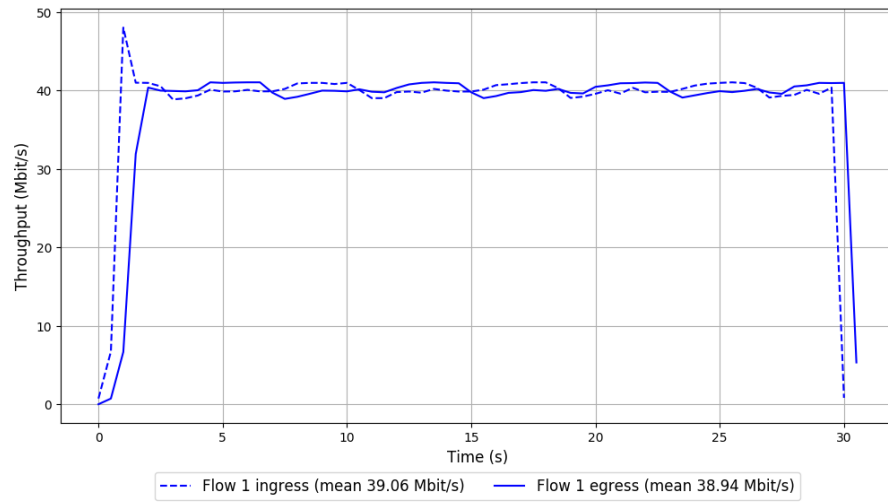
-- Flow 1:

Average throughput: 38.94 Mbit/s

95th percentile per-packet one-way delay: 87.583 ms

Loss rate: 0.33%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-07-03 11:26:08

End at: 2018-07-03 11:26:38

Local clock offset: -6.905 ms

Remote clock offset: 4.248 ms

Below is generated by plot.py at 2018-07-03 14:01:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 40.22 Mbit/s

95th percentile per-packet one-way delay: 86.538 ms

Loss rate: 0.31%

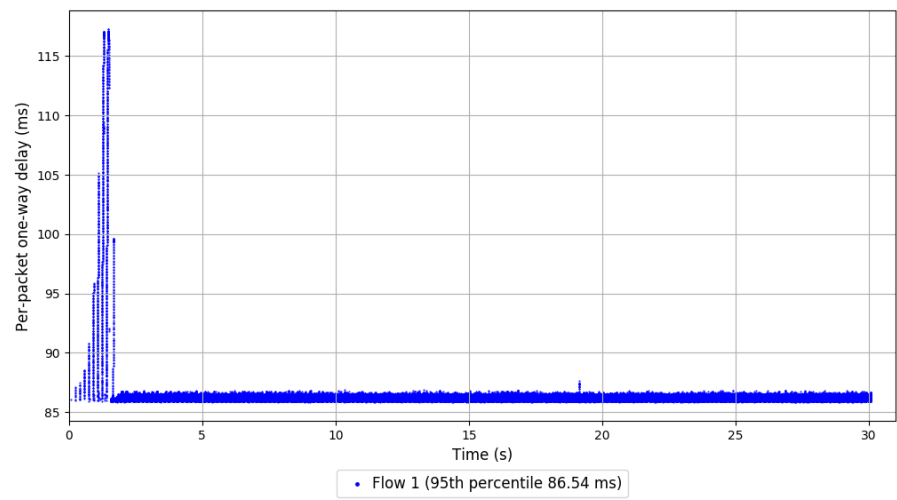
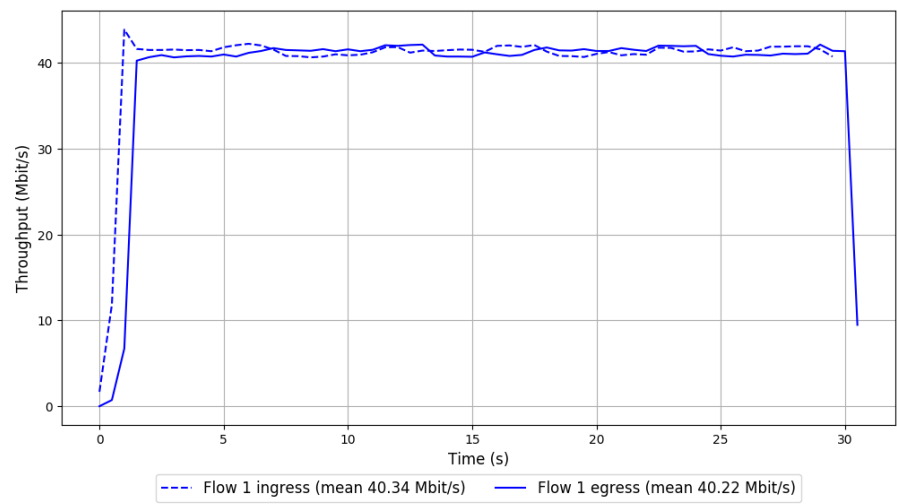
-- Flow 1:

Average throughput: 40.22 Mbit/s

95th percentile per-packet one-way delay: 86.538 ms

Loss rate: 0.31%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-07-03 11:46:00

End at: 2018-07-03 11:46:30

Local clock offset: -5.239 ms

Remote clock offset: 6.618 ms

Below is generated by plot.py at 2018-07-03 14:01:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 46.93 Mbit/s

95th percentile per-packet one-way delay: 85.538 ms

Loss rate: 0.26%

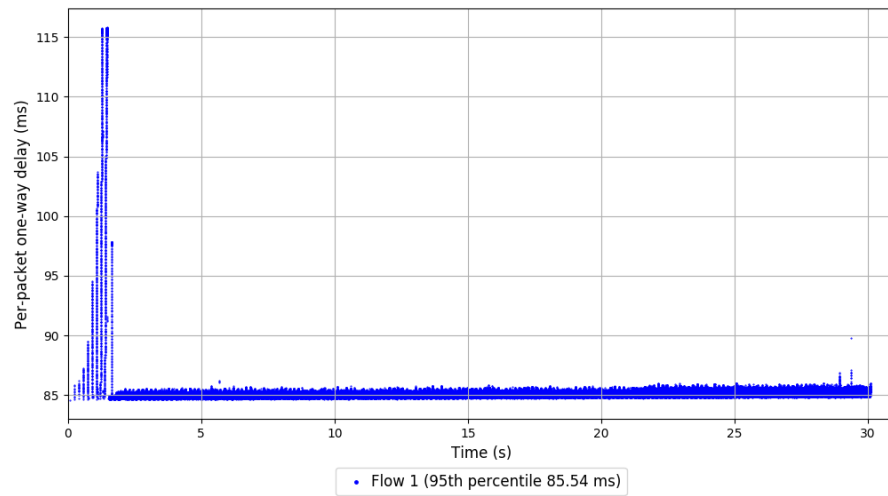
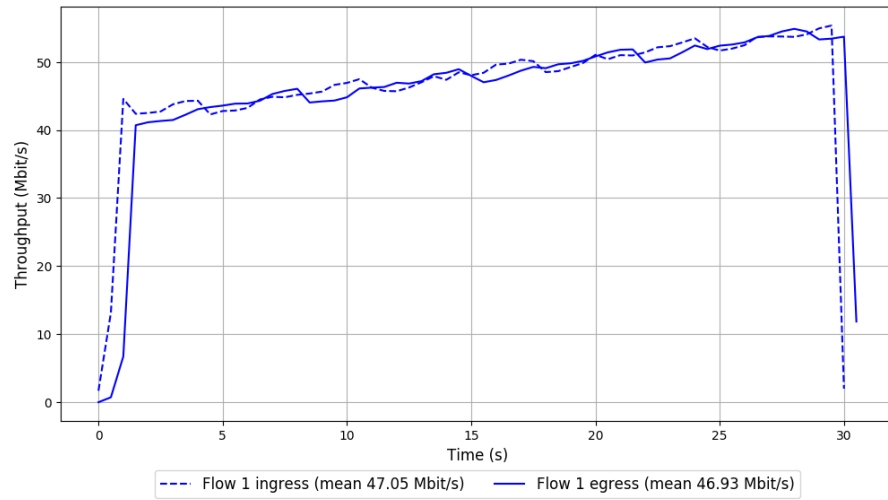
-- Flow 1:

Average throughput: 46.93 Mbit/s

95th percentile per-packet one-way delay: 85.538 ms

Loss rate: 0.26%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-07-03 12:05:54

End at: 2018-07-03 12:06:24

Local clock offset: -1.508 ms

Remote clock offset: 5.713 ms

Below is generated by plot.py at 2018-07-03 14:01:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 43.06 Mbit/s

95th percentile per-packet one-way delay: 86.180 ms

Loss rate: 0.28%

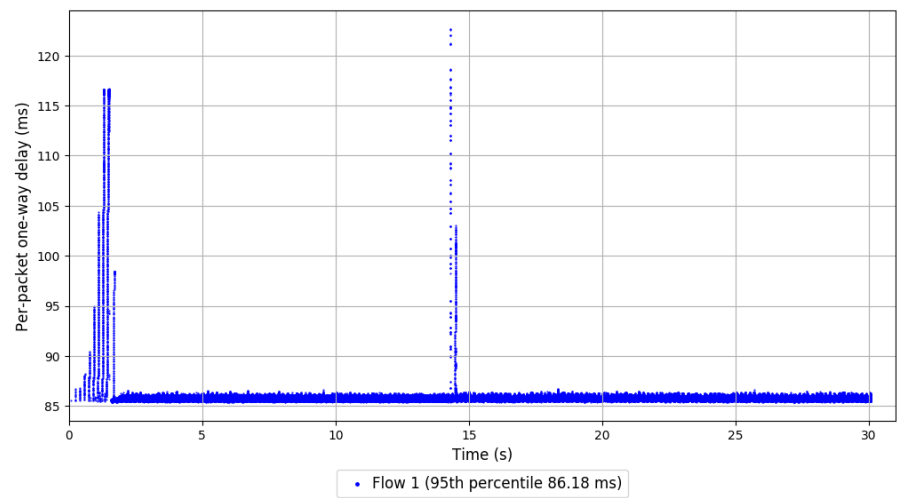
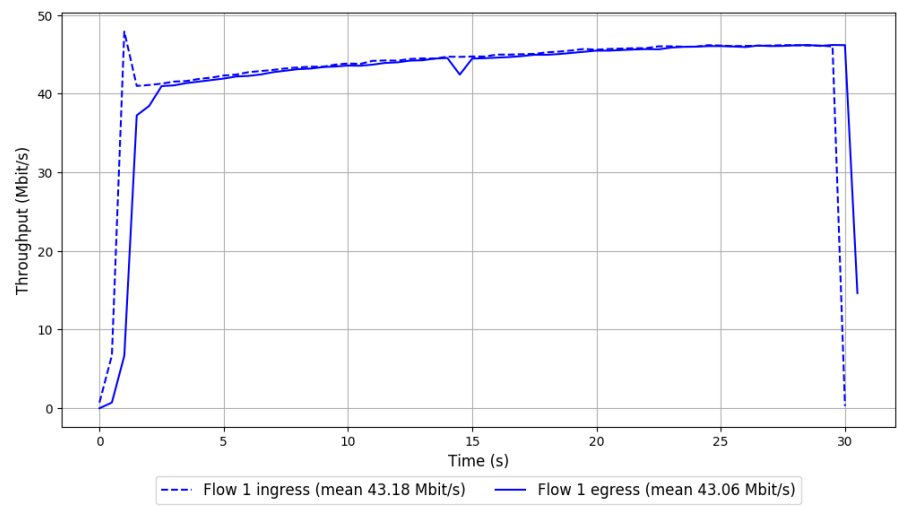
-- Flow 1:

Average throughput: 43.06 Mbit/s

95th percentile per-packet one-way delay: 86.180 ms

Loss rate: 0.28%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-07-03 12:25:56

End at: 2018-07-03 12:26:26

Local clock offset: -2.435 ms

Remote clock offset: 7.482 ms

Below is generated by plot.py at 2018-07-03 14:01:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 40.91 Mbit/s

95th percentile per-packet one-way delay: 84.916 ms

Loss rate: 0.31%

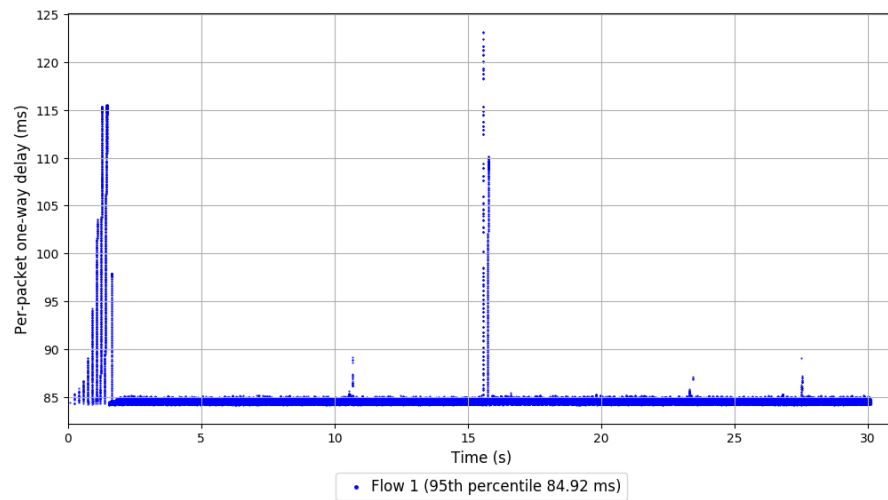
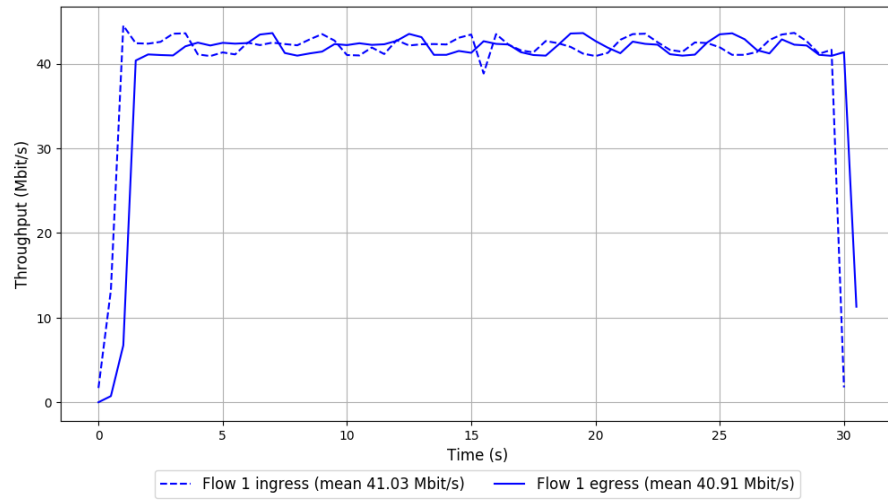
-- Flow 1:

Average throughput: 40.91 Mbit/s

95th percentile per-packet one-way delay: 84.916 ms

Loss rate: 0.31%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-07-03 12:45:51

End at: 2018-07-03 12:46:21

Local clock offset: -2.146 ms

Remote clock offset: 9.827 ms

Below is generated by plot.py at 2018-07-03 14:01:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 39.70 Mbit/s

95th percentile per-packet one-way delay: 87.832 ms

Loss rate: 0.30%

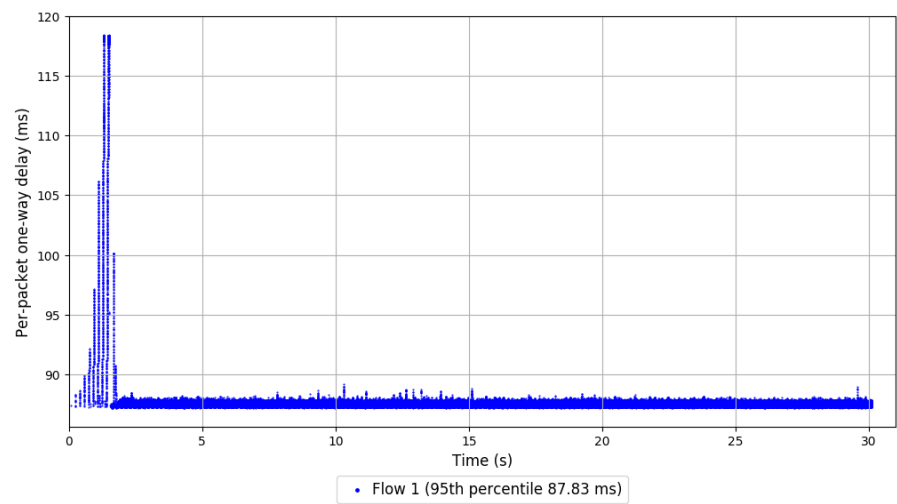
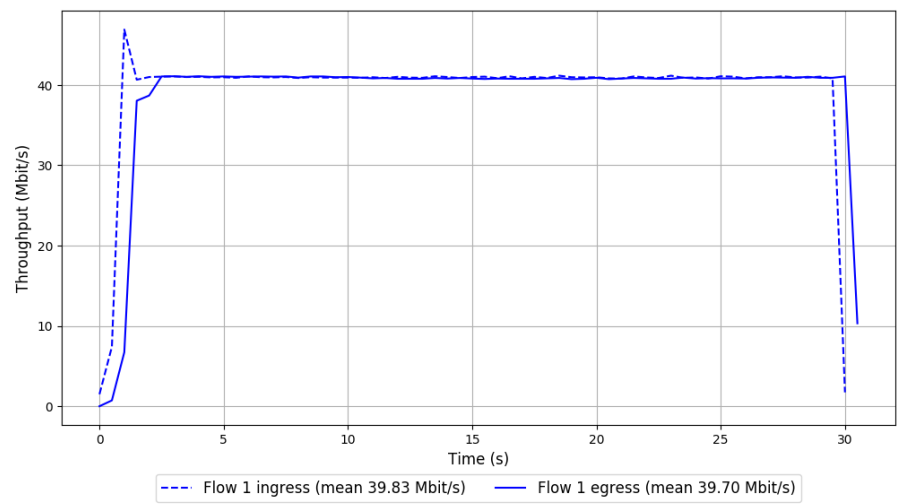
-- Flow 1:

Average throughput: 39.70 Mbit/s

95th percentile per-packet one-way delay: 87.832 ms

Loss rate: 0.30%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-07-03 13:05:43

End at: 2018-07-03 13:06:13

Local clock offset: -1.539 ms

Remote clock offset: 8.162 ms

Below is generated by plot.py at 2018-07-03 14:01:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 26.32 Mbit/s

95th percentile per-packet one-way delay: 85.442 ms

Loss rate: 0.73%

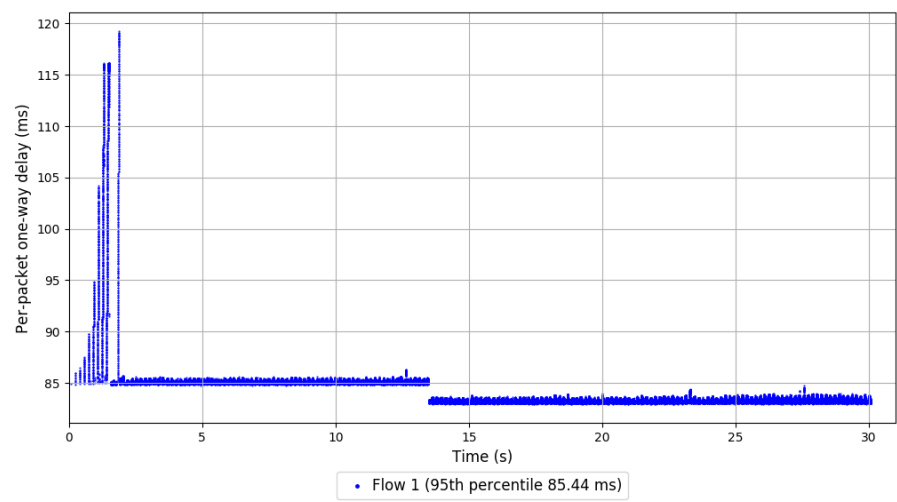
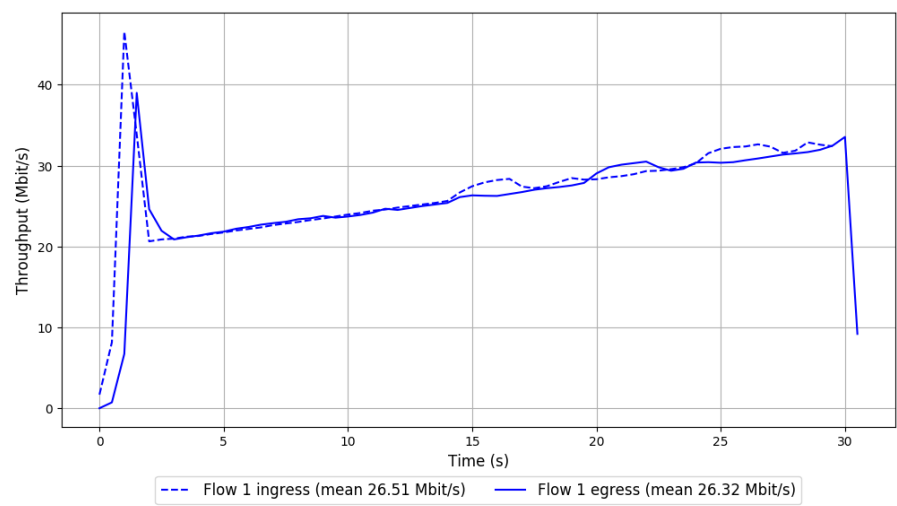
-- Flow 1:

Average throughput: 26.32 Mbit/s

95th percentile per-packet one-way delay: 85.442 ms

Loss rate: 0.73%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-07-03 13:25:37

End at: 2018-07-03 13:26:07

Local clock offset: -1.501 ms

Remote clock offset: 12.026 ms

Below is generated by plot.py at 2018-07-03 14:01:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 44.26 Mbit/s

95th percentile per-packet one-way delay: 85.669 ms

Loss rate: 0.30%

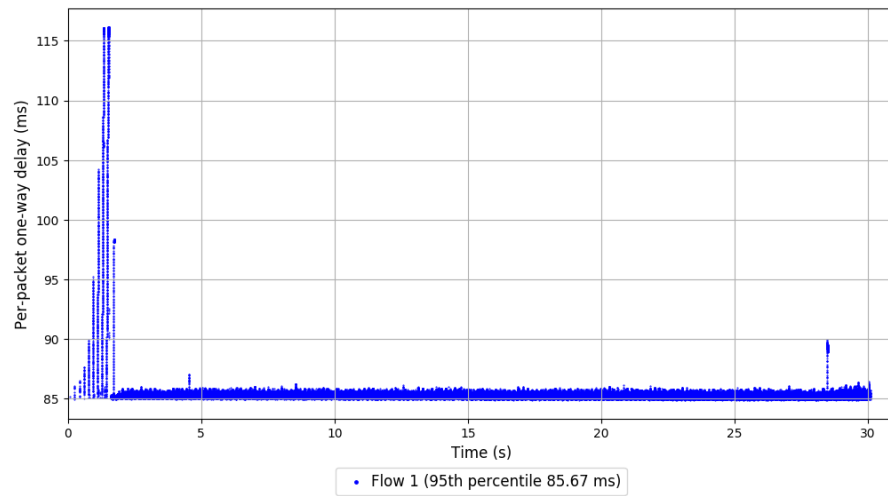
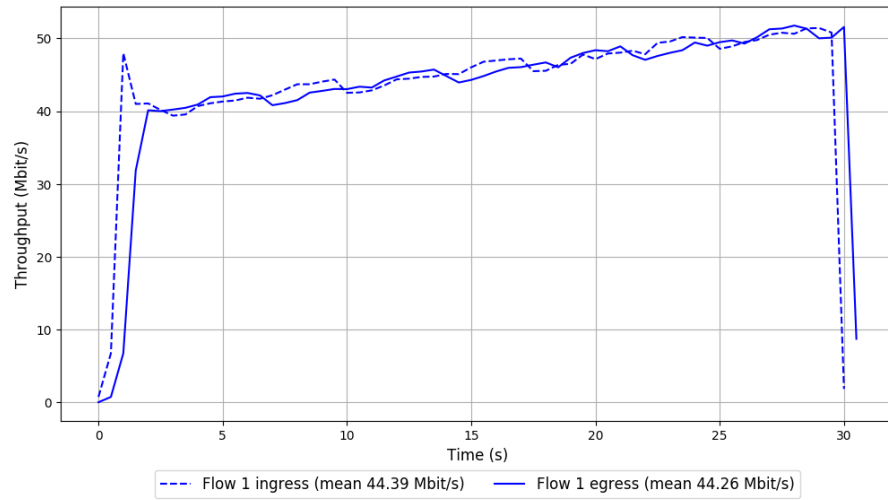
-- Flow 1:

Average throughput: 44.26 Mbit/s

95th percentile per-packet one-way delay: 85.669 ms

Loss rate: 0.30%

Run 10: Report of TCP Vegas — Data Link

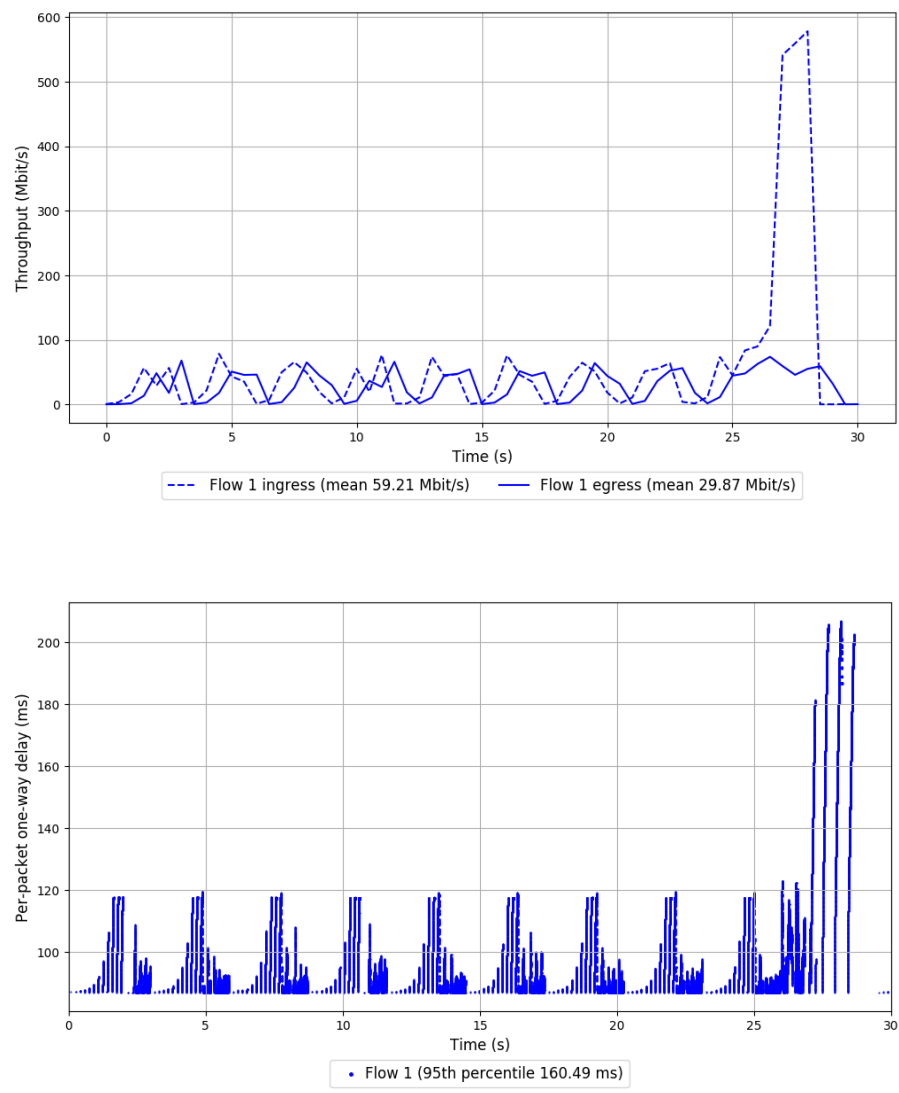


Run 1: Statistics of Verus

Start at: 2018-07-03 10:24:17
End at: 2018-07-03 10:24:47
Local clock offset: -6.342 ms
Remote clock offset: 14.441 ms

Below is generated by plot.py at 2018-07-03 14:01:41
Datalink statistics
-- Total of 1 flow:
Average throughput: 29.87 Mbit/s
95th percentile per-packet one-way delay: 160.487 ms
Loss rate: 49.54%
-- Flow 1:
Average throughput: 29.87 Mbit/s
95th percentile per-packet one-way delay: 160.487 ms
Loss rate: 49.54%

Run 1: Report of Verus — Data Link

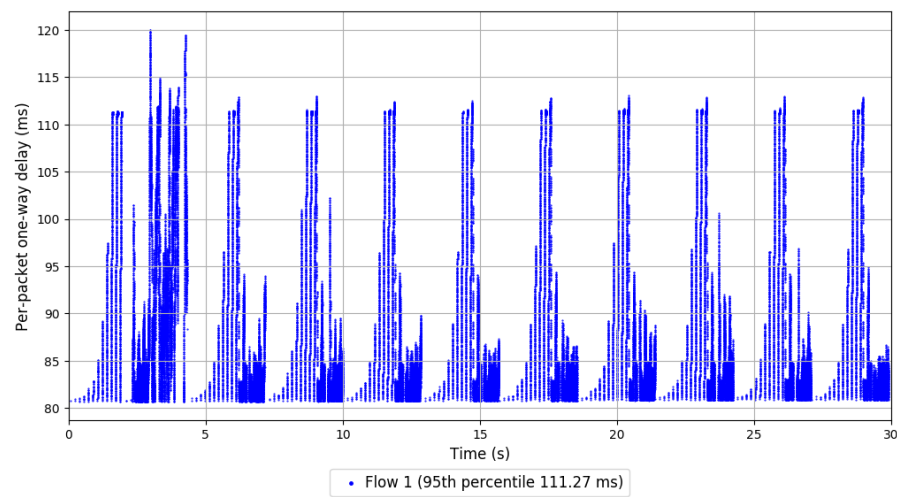
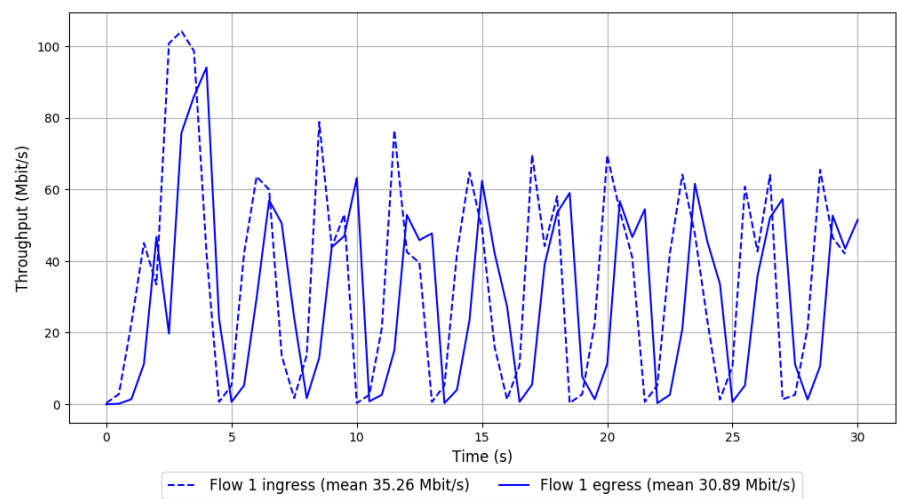


Run 2: Statistics of Verus

Start at: 2018-07-03 10:44:07
End at: 2018-07-03 10:44:37
Local clock offset: -5.92 ms
Remote clock offset: 10.438 ms

Below is generated by plot.py at 2018-07-03 14:01:41
Datalink statistics
-- Total of 1 flow:
Average throughput: 30.89 Mbit/s
95th percentile per-packet one-way delay: 111.267 ms
Loss rate: 12.39%
-- Flow 1:
Average throughput: 30.89 Mbit/s
95th percentile per-packet one-way delay: 111.267 ms
Loss rate: 12.39%

Run 2: Report of Verus — Data Link

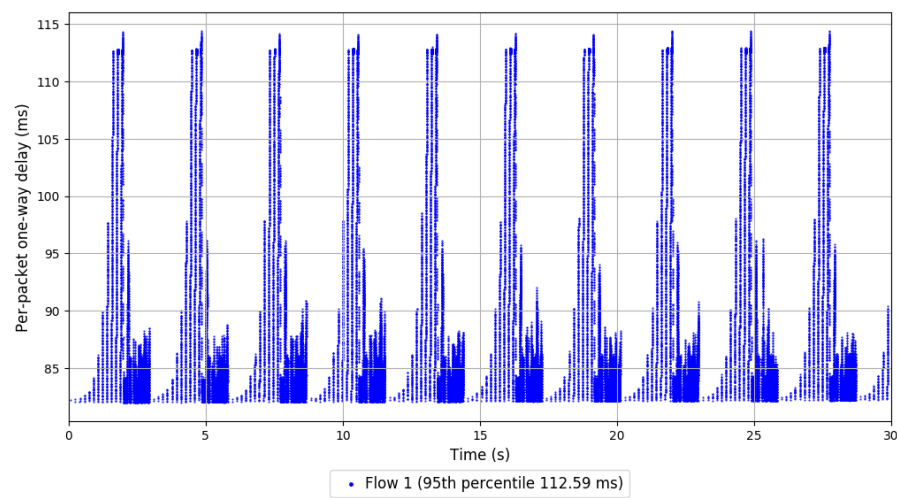
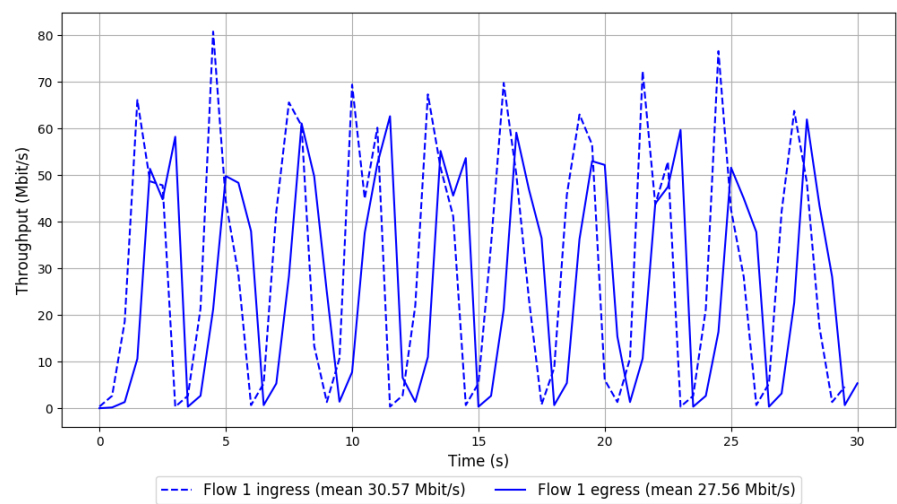


Run 3: Statistics of Verus

Start at: 2018-07-03 11:03:58
End at: 2018-07-03 11:04:28
Local clock offset: -1.592 ms
Remote clock offset: 4.365 ms

Below is generated by plot.py at 2018-07-03 14:01:41
Datalink statistics
-- Total of 1 flow:
Average throughput: 27.56 Mbit/s
95th percentile per-packet one-way delay: 112.589 ms
Loss rate: 9.81%
-- Flow 1:
Average throughput: 27.56 Mbit/s
95th percentile per-packet one-way delay: 112.589 ms
Loss rate: 9.81%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-07-03 11:23:49

End at: 2018-07-03 11:24:19

Local clock offset: -6.482 ms

Remote clock offset: 4.526 ms

Below is generated by plot.py at 2018-07-03 14:01:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 30.51 Mbit/s

95th percentile per-packet one-way delay: 122.255 ms

Loss rate: 23.91%

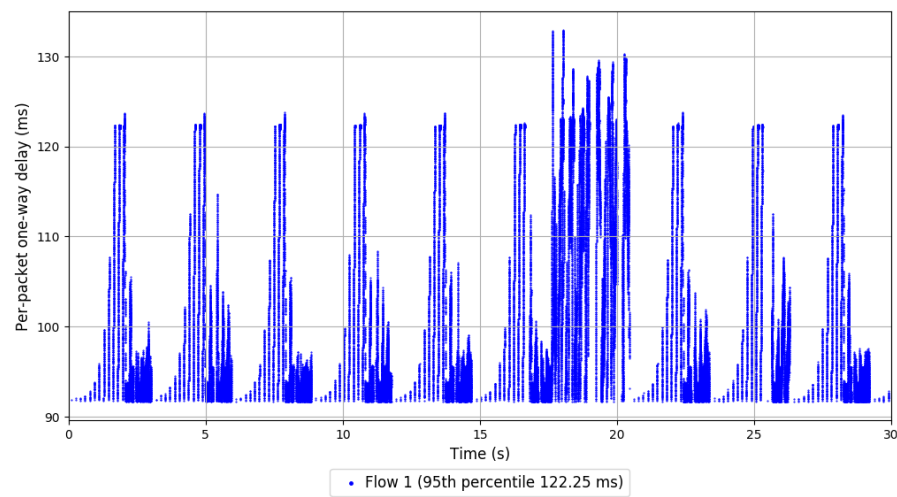
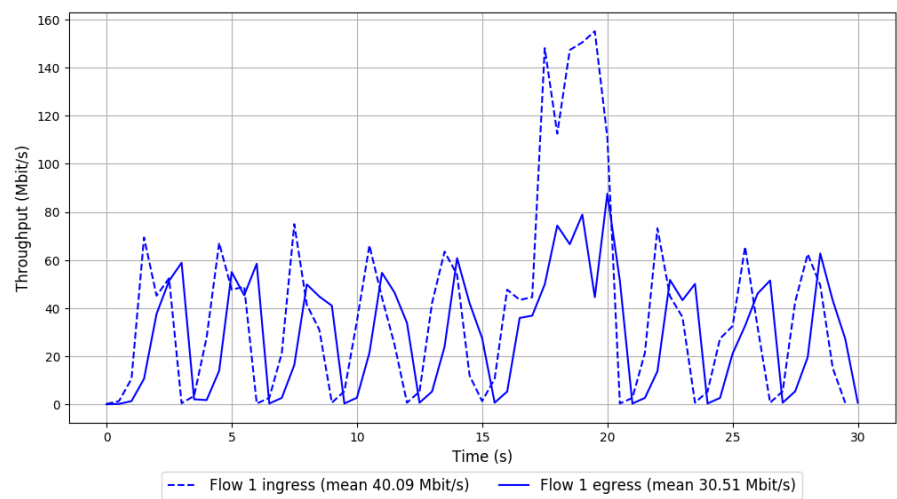
-- Flow 1:

Average throughput: 30.51 Mbit/s

95th percentile per-packet one-way delay: 122.255 ms

Loss rate: 23.91%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-07-03 11:43:41

End at: 2018-07-03 11:44:11

Local clock offset: -6.47 ms

Remote clock offset: 2.687 ms

Below is generated by plot.py at 2018-07-03 14:01:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 30.46 Mbit/s

95th percentile per-packet one-way delay: 111.076 ms

Loss rate: 11.50%

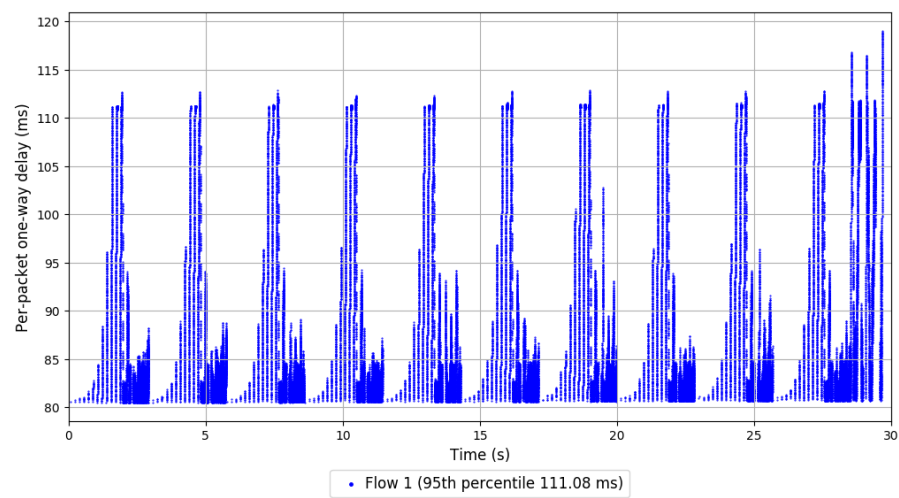
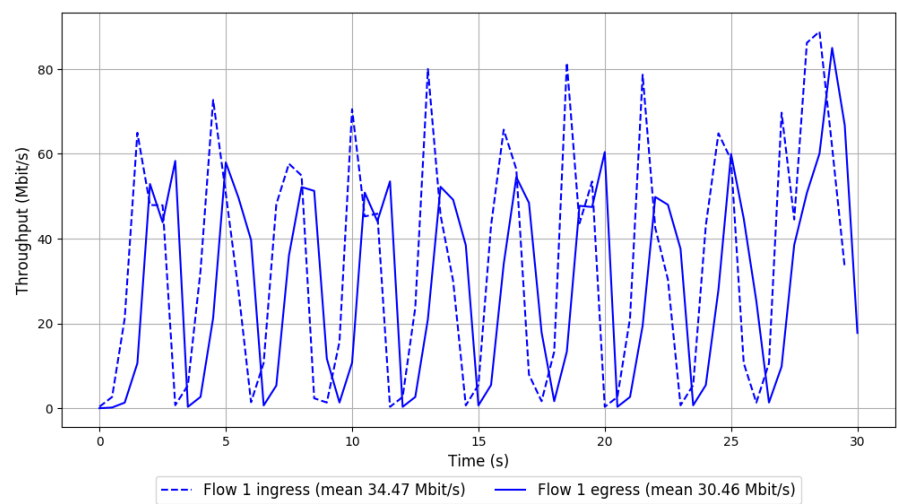
-- Flow 1:

Average throughput: 30.46 Mbit/s

95th percentile per-packet one-way delay: 111.076 ms

Loss rate: 11.50%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-07-03 12:03:35

End at: 2018-07-03 12:04:05

Local clock offset: -1.689 ms

Remote clock offset: 5.562 ms

Below is generated by plot.py at 2018-07-03 14:01:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 33.02 Mbit/s

95th percentile per-packet one-way delay: 113.842 ms

Loss rate: 12.81%

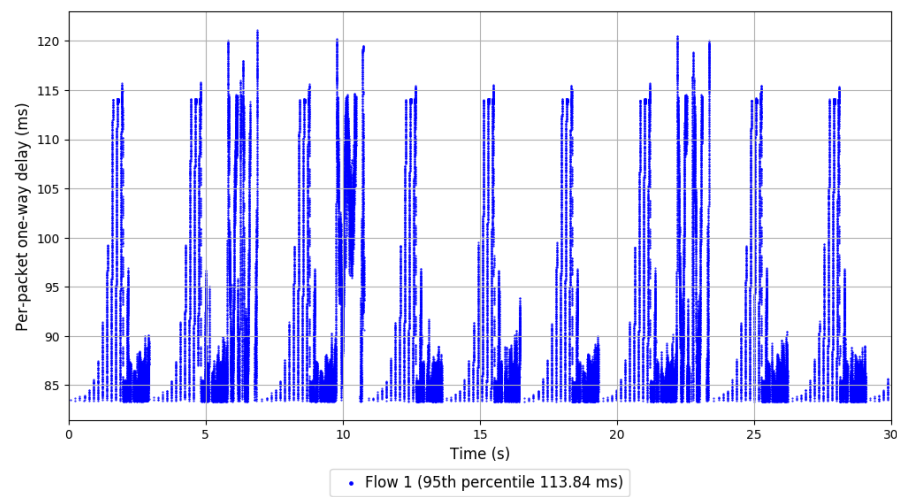
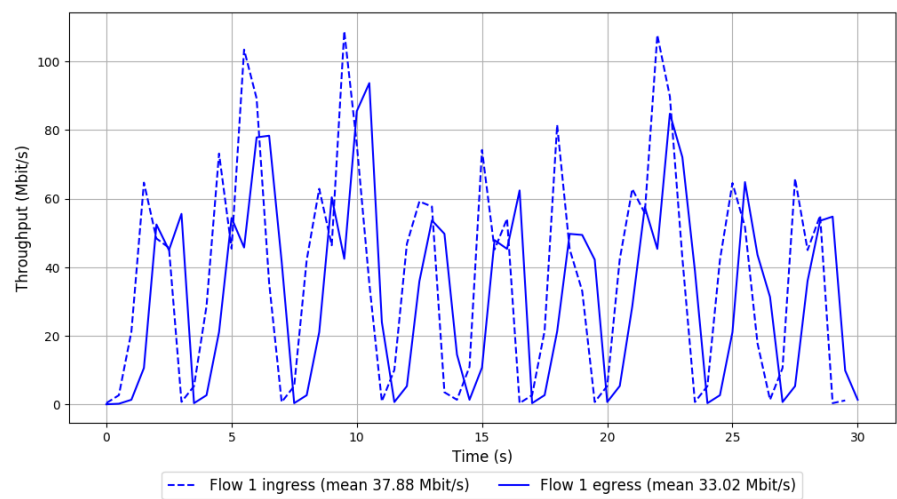
-- Flow 1:

Average throughput: 33.02 Mbit/s

95th percentile per-packet one-way delay: 113.842 ms

Loss rate: 12.81%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-07-03 12:23:37

End at: 2018-07-03 12:24:07

Local clock offset: -2.379 ms

Remote clock offset: 6.401 ms

Below is generated by plot.py at 2018-07-03 14:01:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 29.47 Mbit/s

95th percentile per-packet one-way delay: 115.948 ms

Loss rate: 11.84%

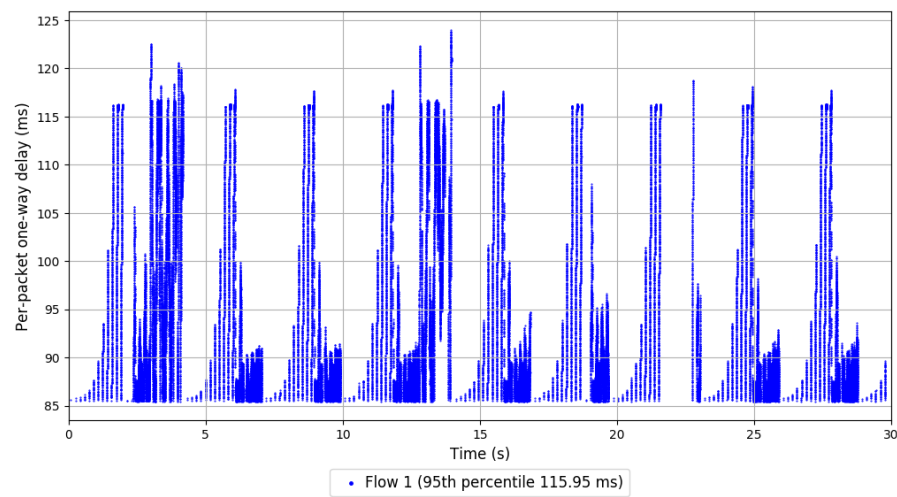
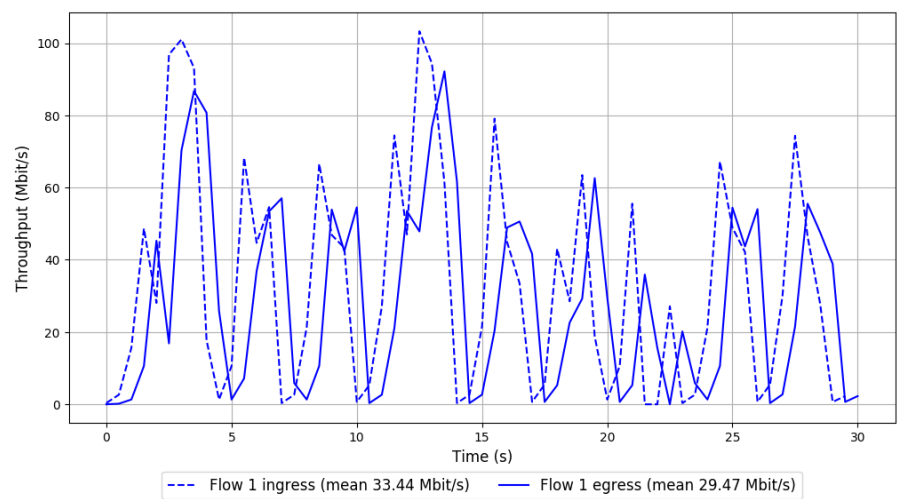
-- Flow 1:

Average throughput: 29.47 Mbit/s

95th percentile per-packet one-way delay: 115.948 ms

Loss rate: 11.84%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-07-03 12:43:30

End at: 2018-07-03 12:44:00

Local clock offset: -2.198 ms

Remote clock offset: 3.473 ms

Below is generated by plot.py at 2018-07-03 14:02:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 39.28 Mbit/s

95th percentile per-packet one-way delay: 178.548 ms

Loss rate: 81.61%

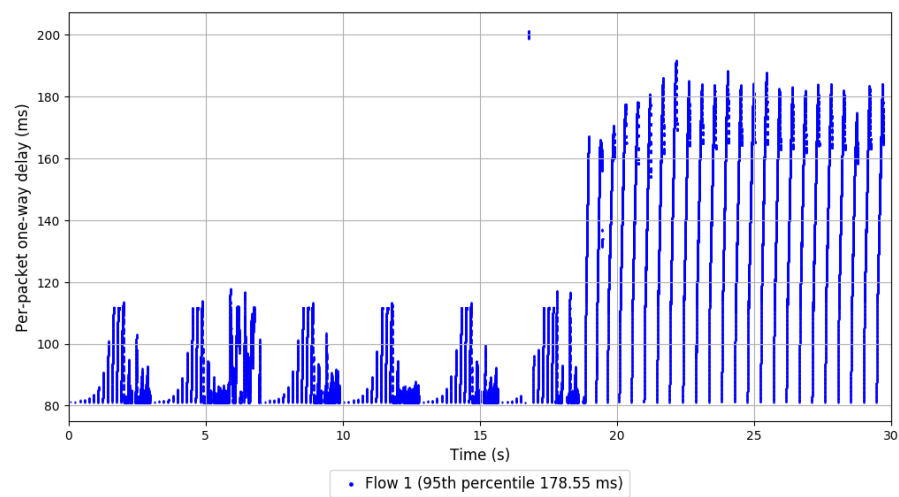
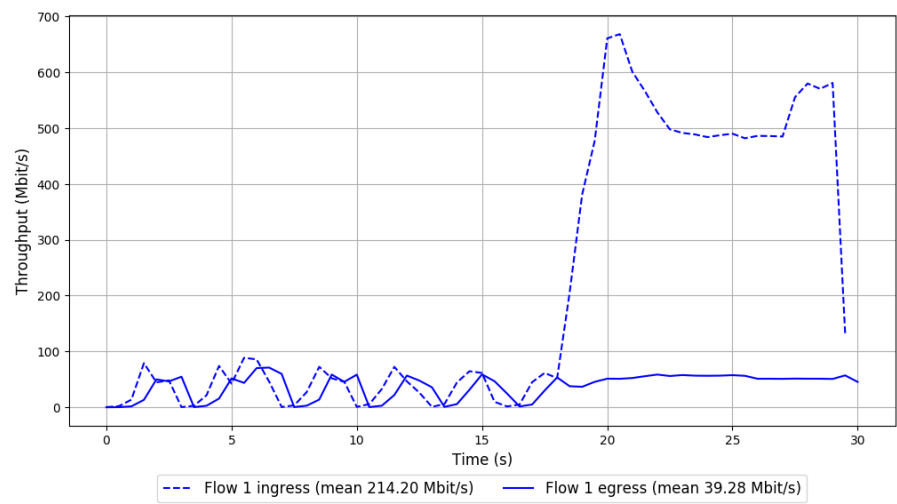
-- Flow 1:

Average throughput: 39.28 Mbit/s

95th percentile per-packet one-way delay: 178.548 ms

Loss rate: 81.61%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-07-03 13:03:23

End at: 2018-07-03 13:03:53

Local clock offset: -1.607 ms

Remote clock offset: 5.32 ms

Below is generated by plot.py at 2018-07-03 14:02:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 38.73 Mbit/s

95th percentile per-packet one-way delay: 111.876 ms

Loss rate: 35.30%

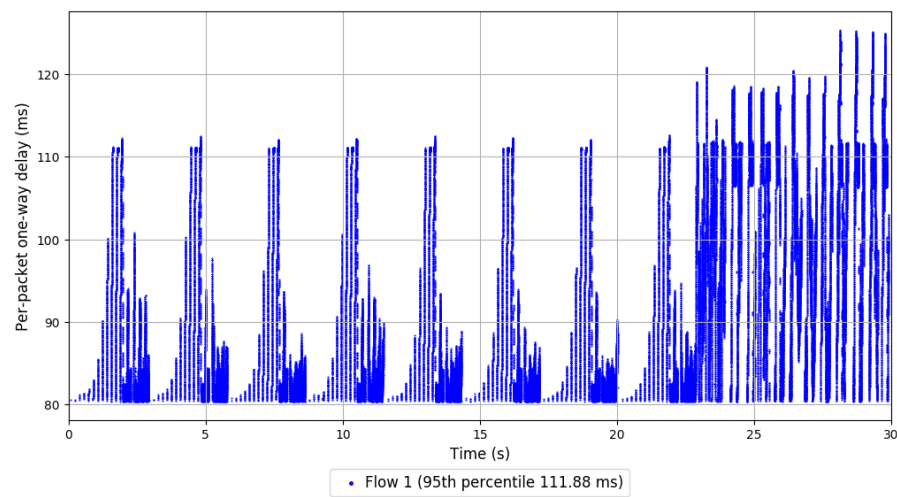
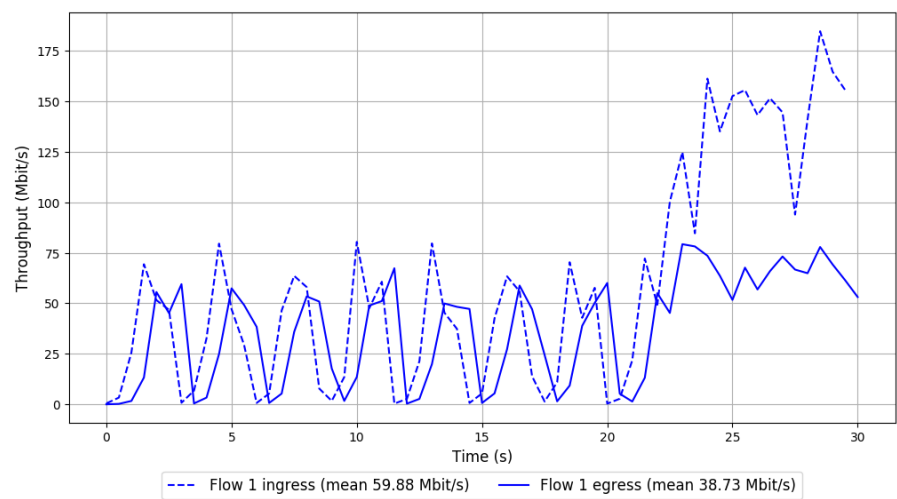
-- Flow 1:

Average throughput: 38.73 Mbit/s

95th percentile per-packet one-way delay: 111.876 ms

Loss rate: 35.30%

Run 9: Report of Verus — Data Link

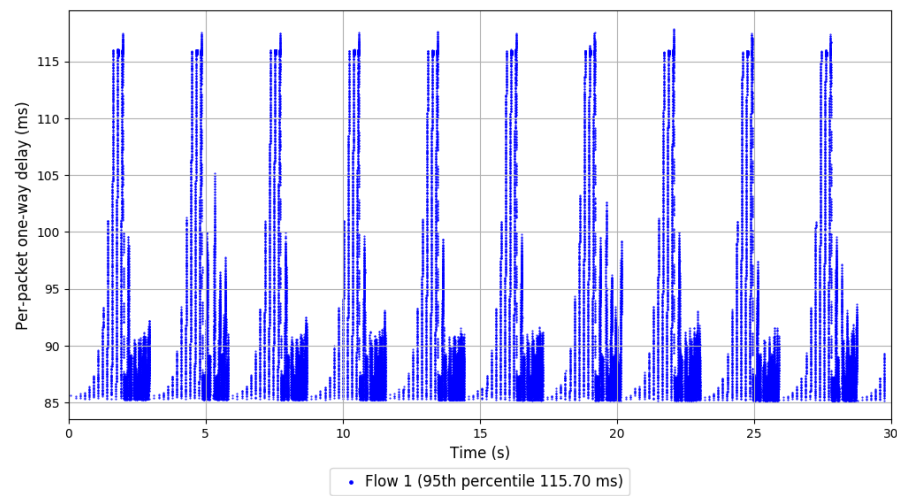
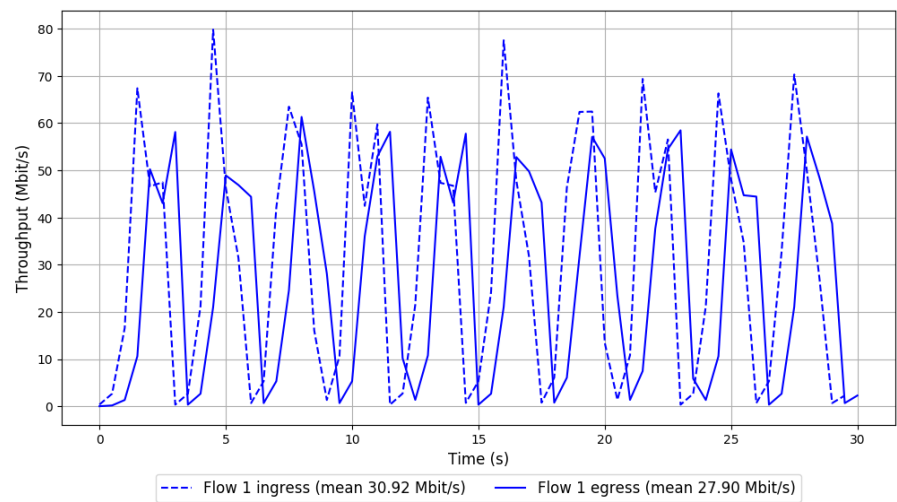


Run 10: Statistics of Verus

Start at: 2018-07-03 13:23:17
End at: 2018-07-03 13:23:47
Local clock offset: -1.515 ms
Remote clock offset: 17.513 ms

Below is generated by plot.py at 2018-07-03 14:02:23
Datalink statistics
-- Total of 1 flow:
Average throughput: 27.90 Mbit/s
95th percentile per-packet one-way delay: 115.698 ms
Loss rate: 9.77%
-- Flow 1:
Average throughput: 27.90 Mbit/s
95th percentile per-packet one-way delay: 115.698 ms
Loss rate: 9.77%

Run 10: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2018-07-03 10:33:32

End at: 2018-07-03 10:34:02

Local clock offset: -7.556 ms

Remote clock offset: 10.471 ms

Below is generated by plot.py at 2018-07-03 14:02:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.81 Mbit/s

95th percentile per-packet one-way delay: 103.996 ms

Loss rate: 0.13%

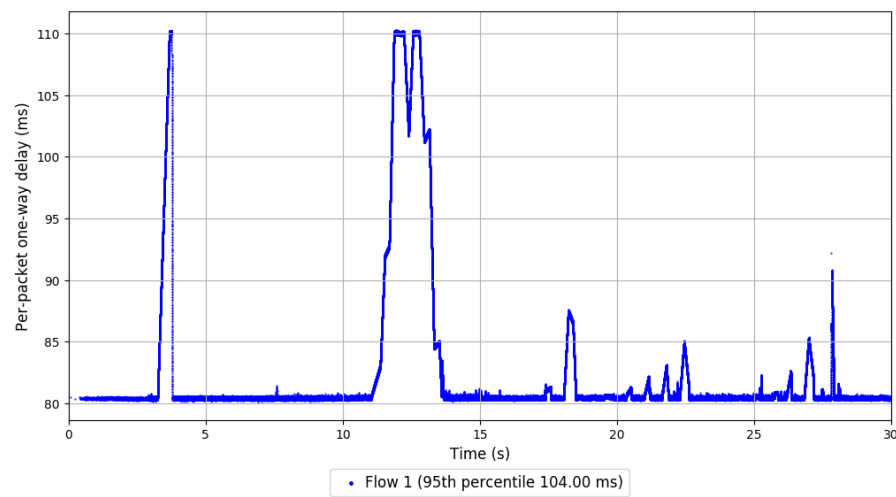
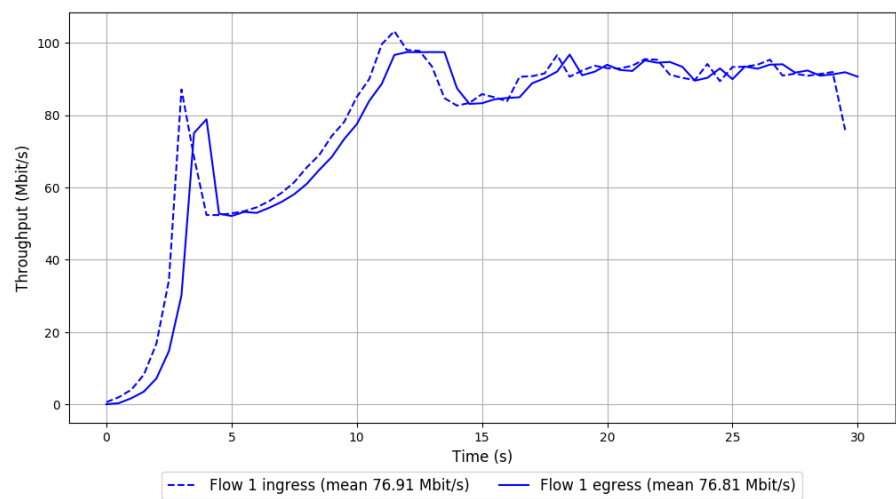
-- Flow 1:

Average throughput: 76.81 Mbit/s

95th percentile per-packet one-way delay: 103.996 ms

Loss rate: 0.13%

Run 1: Report of PCC-Vivace — Data Link

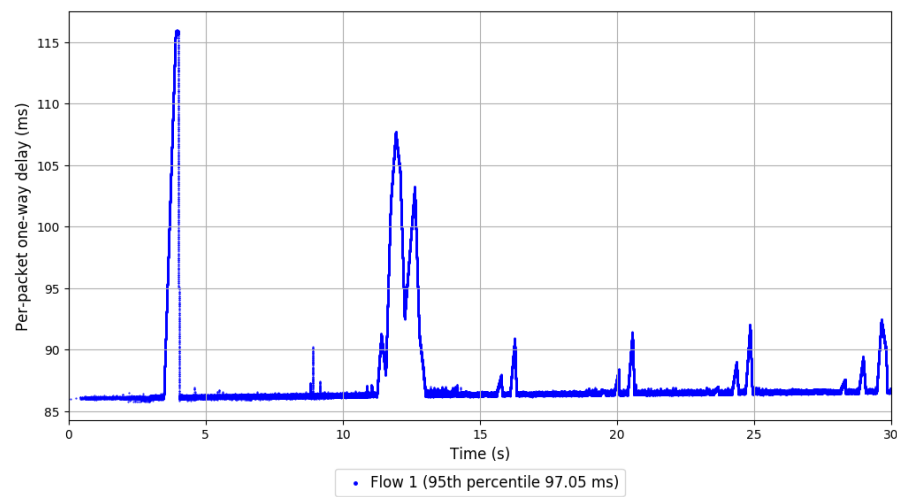
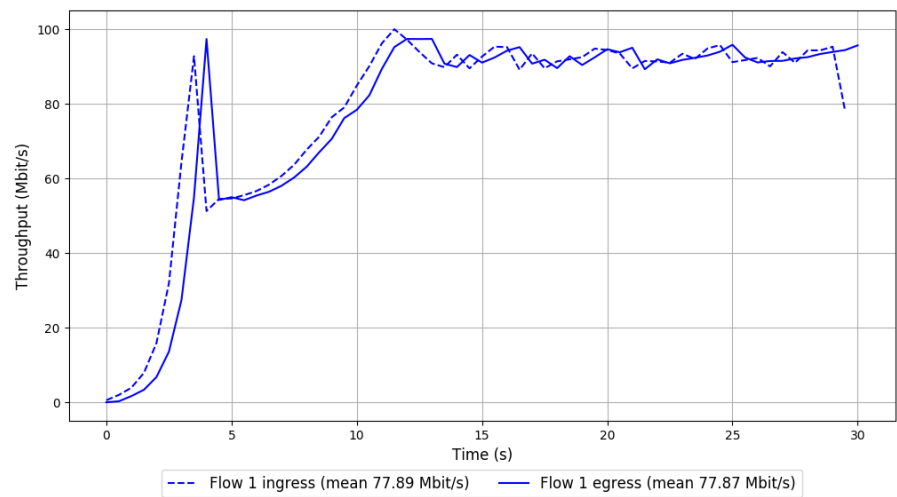


Run 2: Statistics of PCC-Vivace

Start at: 2018-07-03 10:53:22
End at: 2018-07-03 10:53:52
Local clock offset: -2.953 ms
Remote clock offset: 14.953 ms

Below is generated by plot.py at 2018-07-03 14:02:39
Datalink statistics
-- Total of 1 flow:
Average throughput: 77.87 Mbit/s
95th percentile per-packet one-way delay: 97.049 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 77.87 Mbit/s
95th percentile per-packet one-way delay: 97.049 ms
Loss rate: 0.03%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-07-03 11:13:12

End at: 2018-07-03 11:13:43

Local clock offset: -2.863 ms

Remote clock offset: 2.251 ms

Below is generated by plot.py at 2018-07-03 14:02:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.13 Mbit/s

95th percentile per-packet one-way delay: 102.719 ms

Loss rate: 0.13%

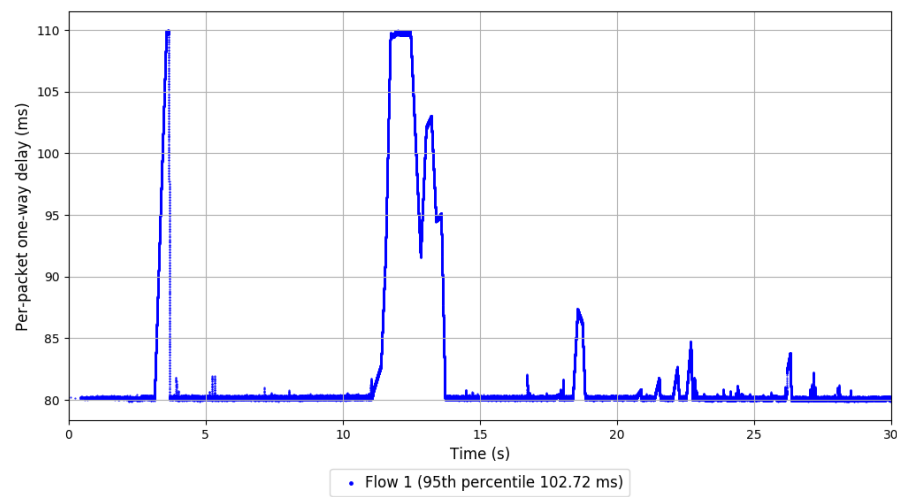
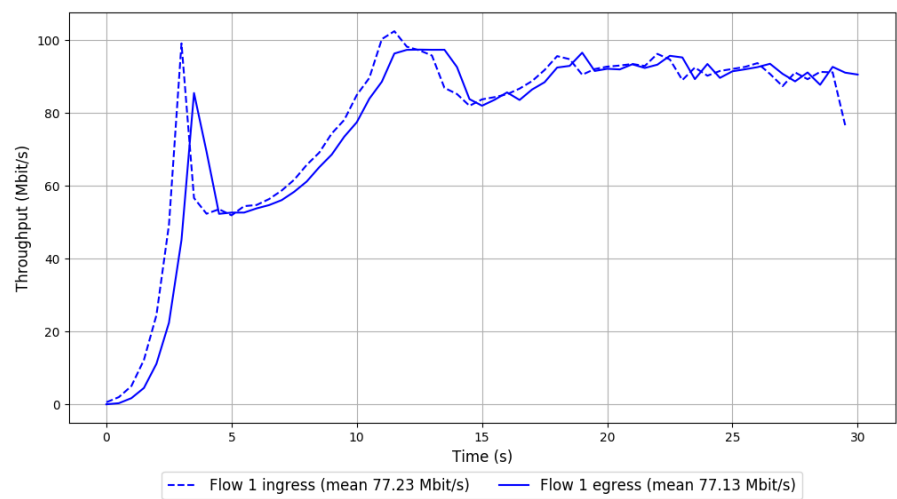
-- Flow 1:

Average throughput: 77.13 Mbit/s

95th percentile per-packet one-way delay: 102.719 ms

Loss rate: 0.13%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2018-07-03 11:33:05

End at: 2018-07-03 11:33:35

Local clock offset: -7.781 ms

Remote clock offset: 0.784 ms

Below is generated by plot.py at 2018-07-03 14:02:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.16 Mbit/s

95th percentile per-packet one-way delay: 100.311 ms

Loss rate: 0.11%

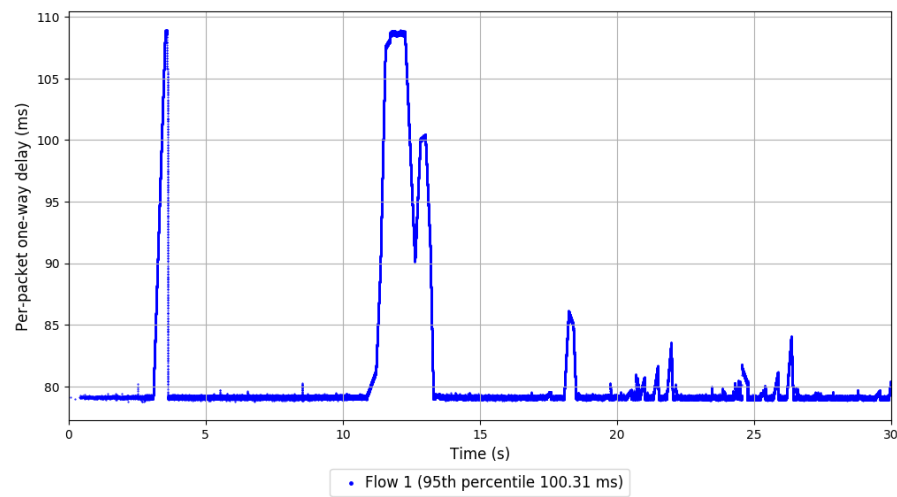
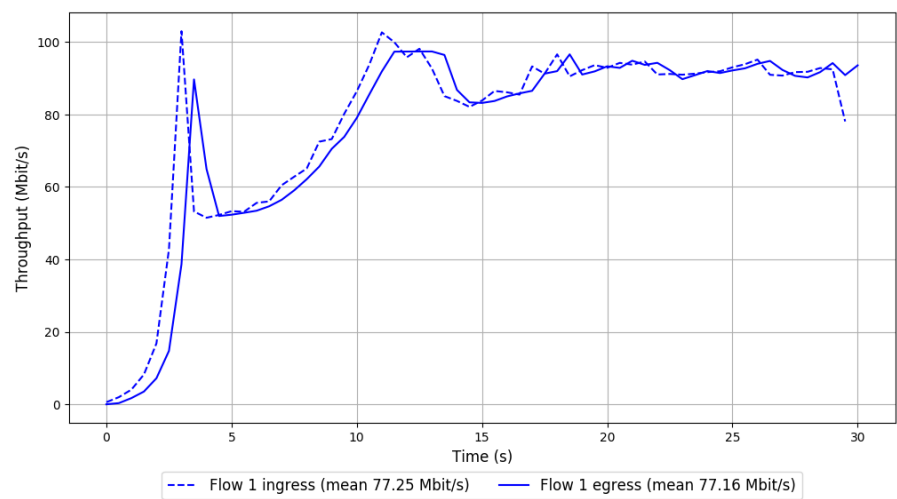
-- Flow 1:

Average throughput: 77.16 Mbit/s

95th percentile per-packet one-way delay: 100.311 ms

Loss rate: 0.11%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2018-07-03 11:52:58

End at: 2018-07-03 11:53:28

Local clock offset: -3.185 ms

Remote clock offset: 5.44 ms

Below is generated by plot.py at 2018-07-03 14:02:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.03 Mbit/s

95th percentile per-packet one-way delay: 91.257 ms

Loss rate: 0.03%

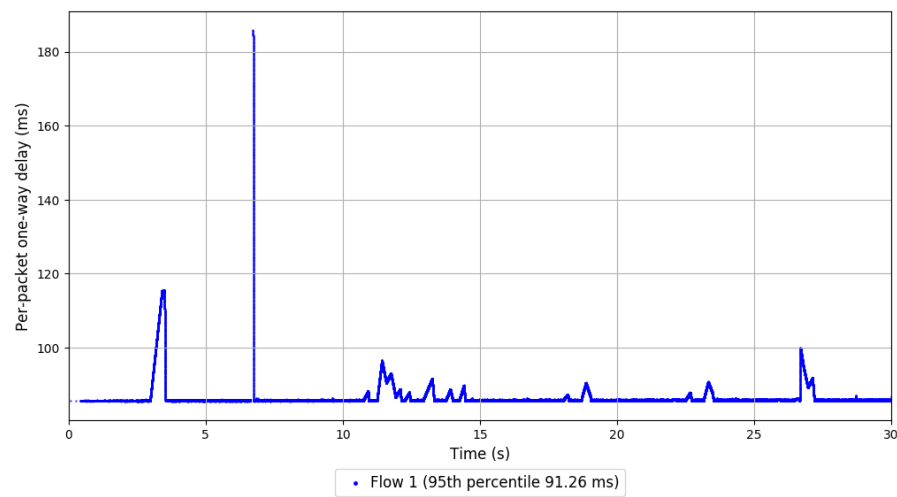
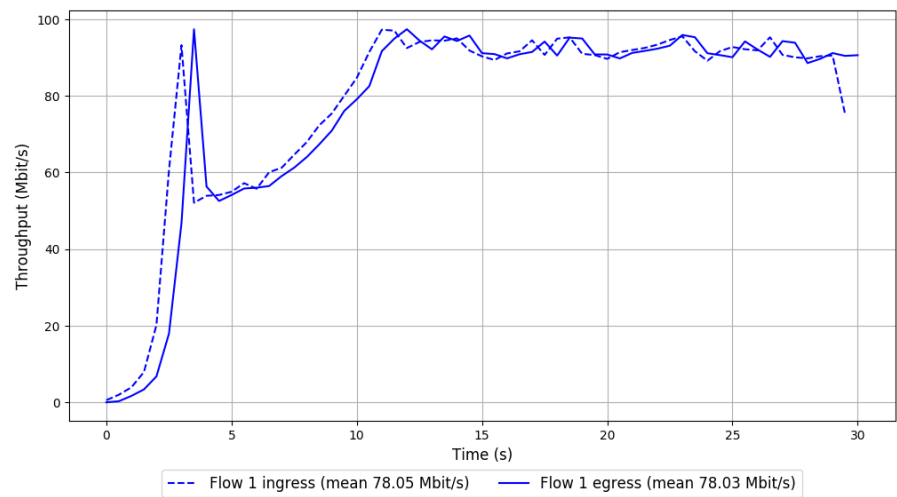
-- Flow 1:

Average throughput: 78.03 Mbit/s

95th percentile per-packet one-way delay: 91.257 ms

Loss rate: 0.03%

Run 5: Report of PCC-Vivace — Data Link



Run 6: Statistics of PCC-Vivace

Start at: 2018-07-03 12:12:53

End at: 2018-07-03 12:13:23

Local clock offset: -1.593 ms

Remote clock offset: 3.494 ms

Below is generated by plot.py at 2018-07-03 14:02:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.89 Mbit/s

95th percentile per-packet one-way delay: 90.067 ms

Loss rate: 0.03%

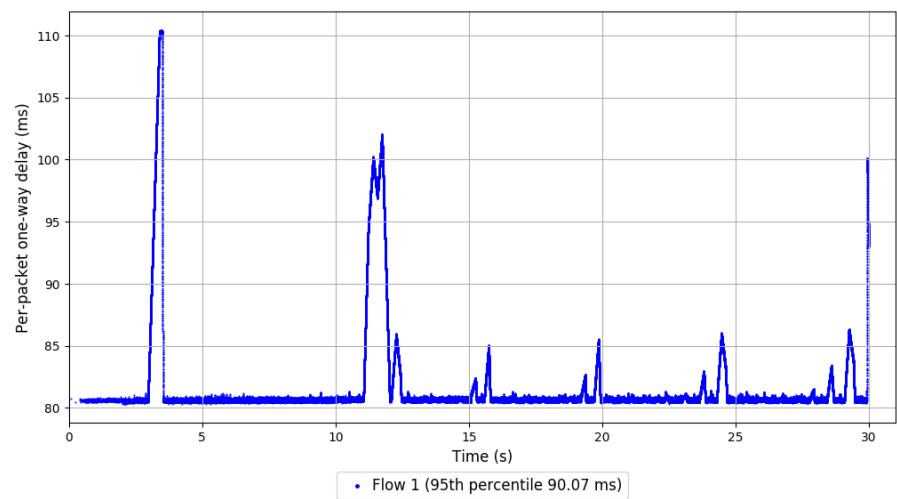
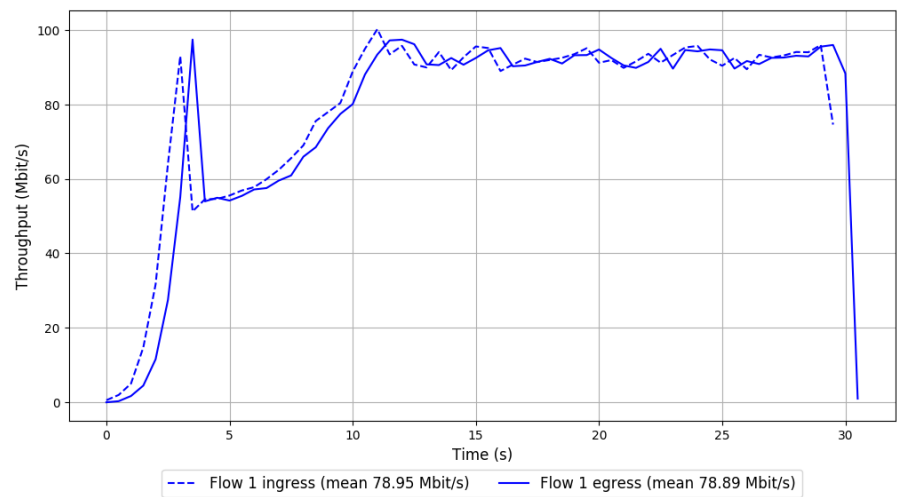
-- Flow 1:

Average throughput: 78.89 Mbit/s

95th percentile per-packet one-way delay: 90.067 ms

Loss rate: 0.03%

Run 6: Report of PCC-Vivace — Data Link



Run 7: Statistics of PCC-Vivace

Start at: 2018-07-03 12:32:54

End at: 2018-07-03 12:33:24

Local clock offset: -2.396 ms

Remote clock offset: 3.57 ms

Below is generated by plot.py at 2018-07-03 14:02:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.35 Mbit/s

95th percentile per-packet one-way delay: 115.553 ms

Loss rate: 0.14%

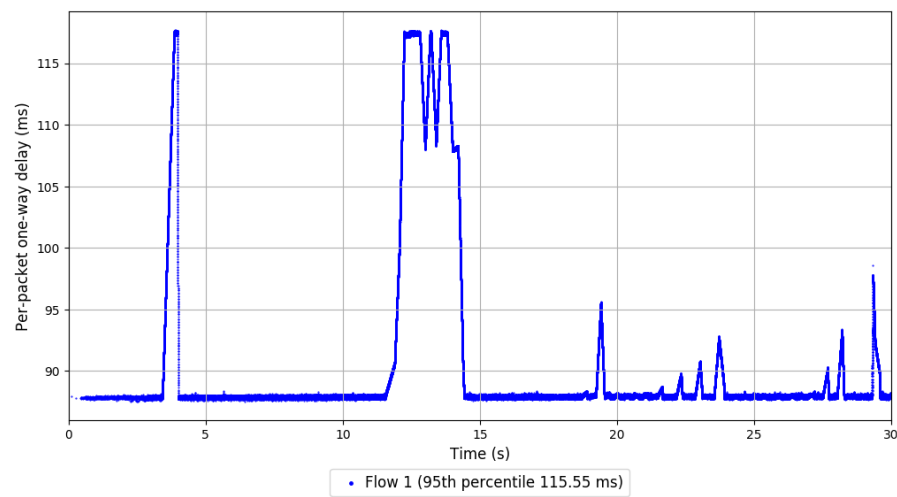
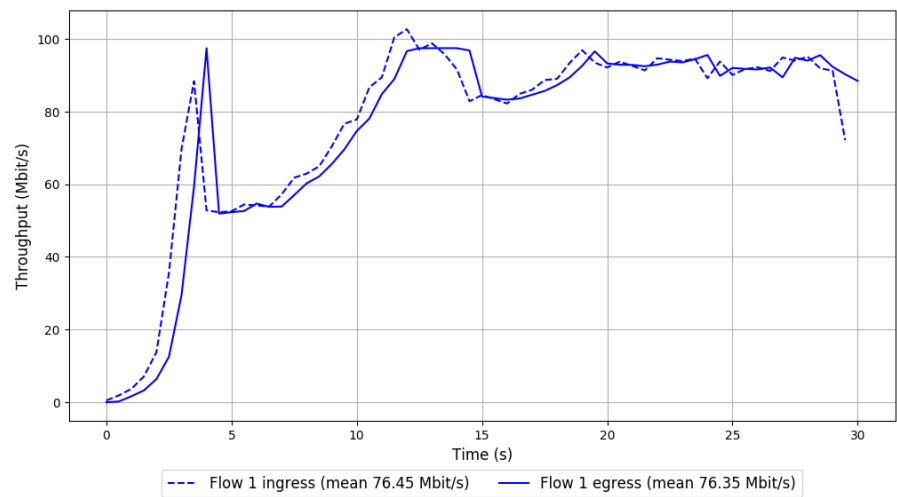
-- Flow 1:

Average throughput: 76.35 Mbit/s

95th percentile per-packet one-way delay: 115.553 ms

Loss rate: 0.14%

Run 7: Report of PCC-Vivace — Data Link



Run 8: Statistics of PCC-Vivace

Start at: 2018-07-03 12:52:48

End at: 2018-07-03 12:53:18

Local clock offset: -1.904 ms

Remote clock offset: 8.911 ms

Below is generated by plot.py at 2018-07-03 14:03:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.24 Mbit/s

95th percentile per-packet one-way delay: 94.709 ms

Loss rate: 0.03%

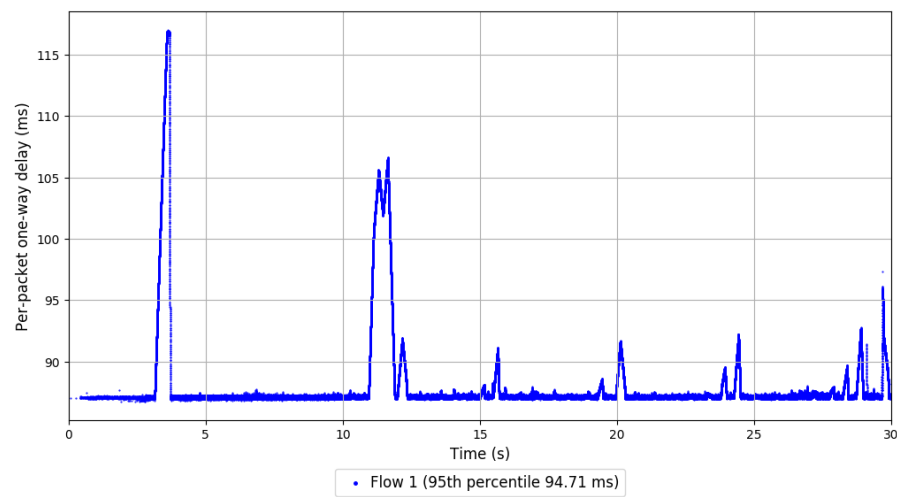
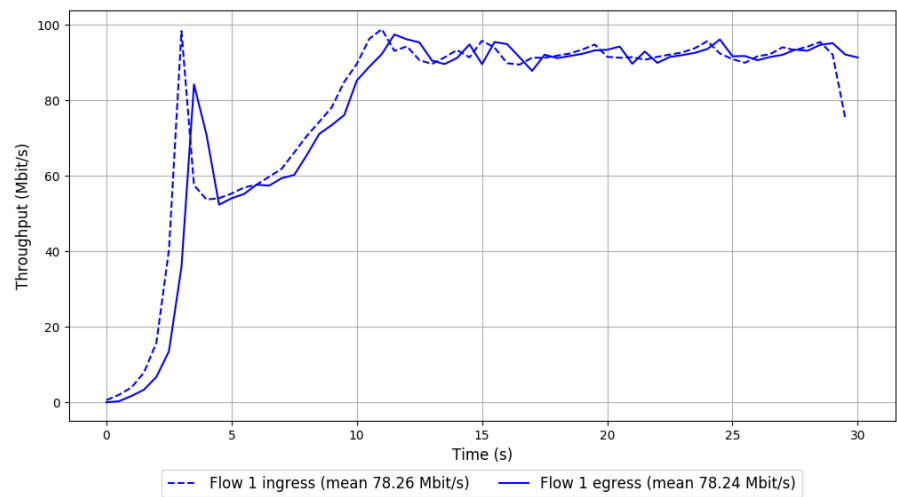
-- Flow 1:

Average throughput: 78.24 Mbit/s

95th percentile per-packet one-way delay: 94.709 ms

Loss rate: 0.03%

Run 8: Report of PCC-Vivace — Data Link



Run 9: Statistics of PCC-Vivace

Start at: 2018-07-03 13:12:40

End at: 2018-07-03 13:13:10

Local clock offset: -1.483 ms

Remote clock offset: 6.797 ms

Below is generated by plot.py at 2018-07-03 14:03:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.04 Mbit/s

95th percentile per-packet one-way delay: 85.712 ms

Loss rate: 0.03%

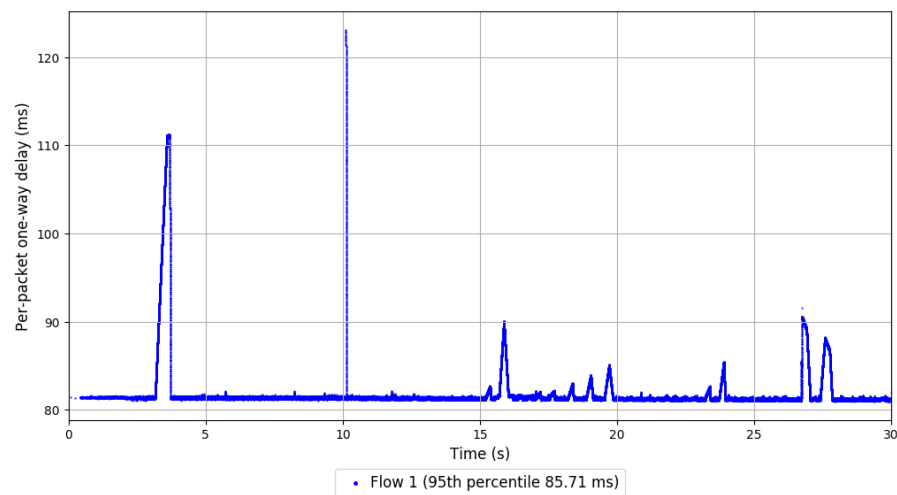
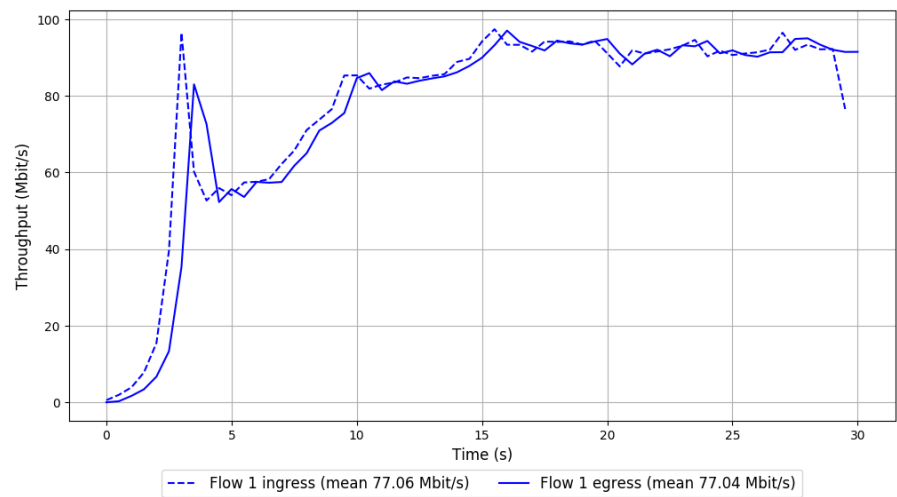
-- Flow 1:

Average throughput: 77.04 Mbit/s

95th percentile per-packet one-way delay: 85.712 ms

Loss rate: 0.03%

Run 9: Report of PCC-Vivace — Data Link



Run 10: Statistics of PCC-Vivace

Start at: 2018-07-03 13:32:34

End at: 2018-07-03 13:33:04

Local clock offset: -1.419 ms

Remote clock offset: 14.44 ms

Below is generated by plot.py at 2018-07-03 14:03:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.76 Mbit/s

95th percentile per-packet one-way delay: 103.319 ms

Loss rate: 0.13%

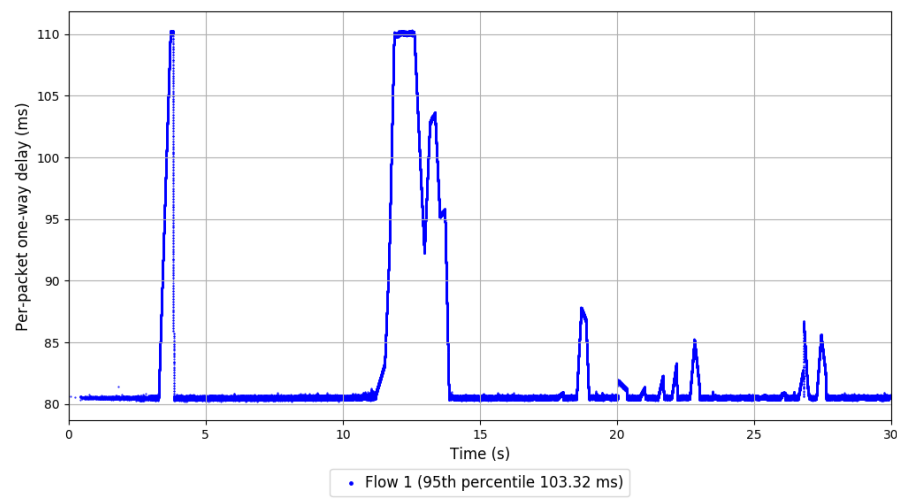
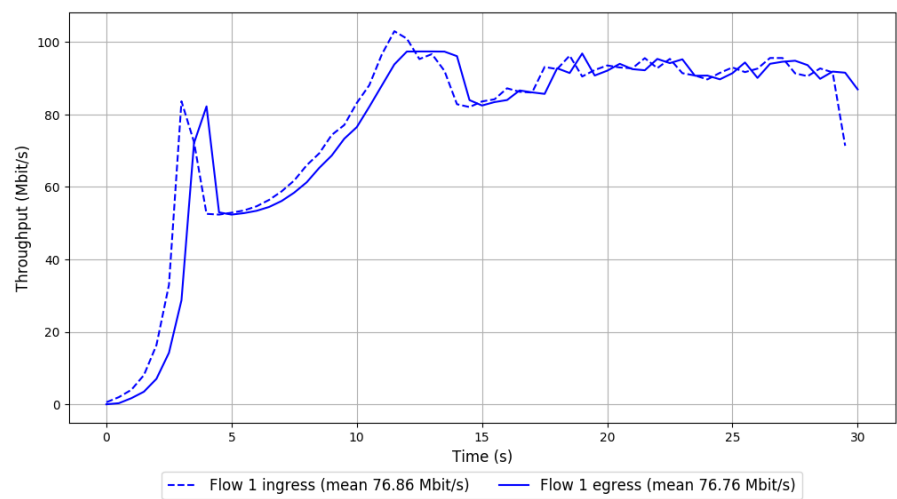
-- Flow 1:

Average throughput: 76.76 Mbit/s

95th percentile per-packet one-way delay: 103.319 ms

Loss rate: 0.13%

Run 10: Report of PCC-Vivace — Data Link

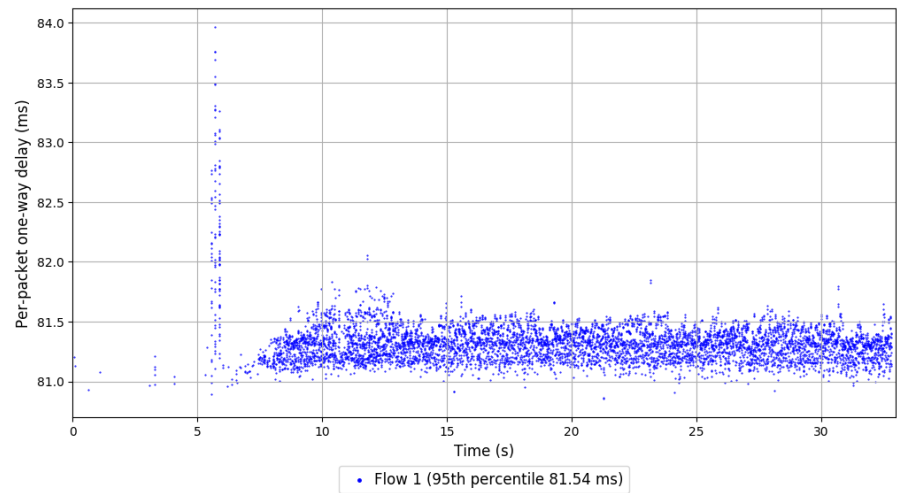
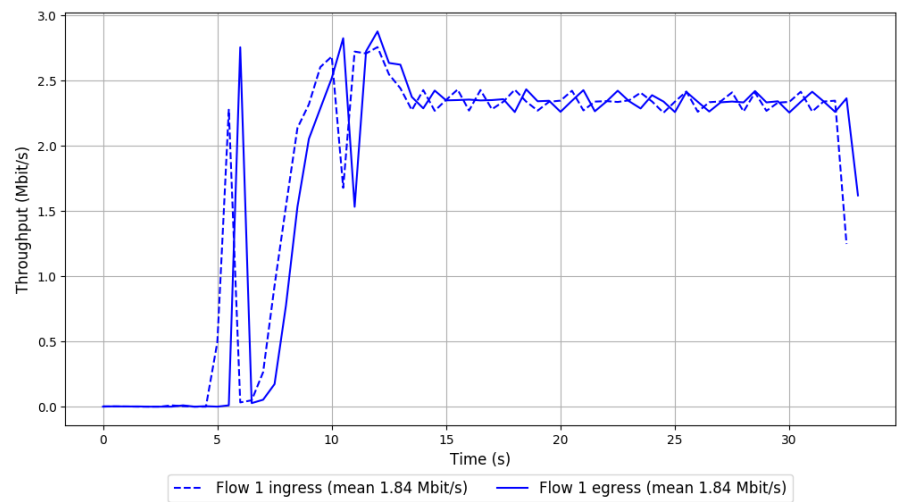


```
Run 1: Statistics of WebRTC media

Start at: 2018-07-03 10:31:18
End at: 2018-07-03 10:31:48
Local clock offset: -7.291 ms
Remote clock offset: 10.545 ms

# Below is generated by plot.py at 2018-07-03 14:03:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.84 Mbit/s
95th percentile per-packet one-way delay: 81.543 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.84 Mbit/s
95th percentile per-packet one-way delay: 81.543 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-07-03 10:51:08

End at: 2018-07-03 10:51:38

Local clock offset: -3.475 ms

Remote clock offset: 9.055 ms

Below is generated by plot.py at 2018-07-03 14:03:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.75 Mbit/s

95th percentile per-packet one-way delay: 80.546 ms

Loss rate: 0.00%

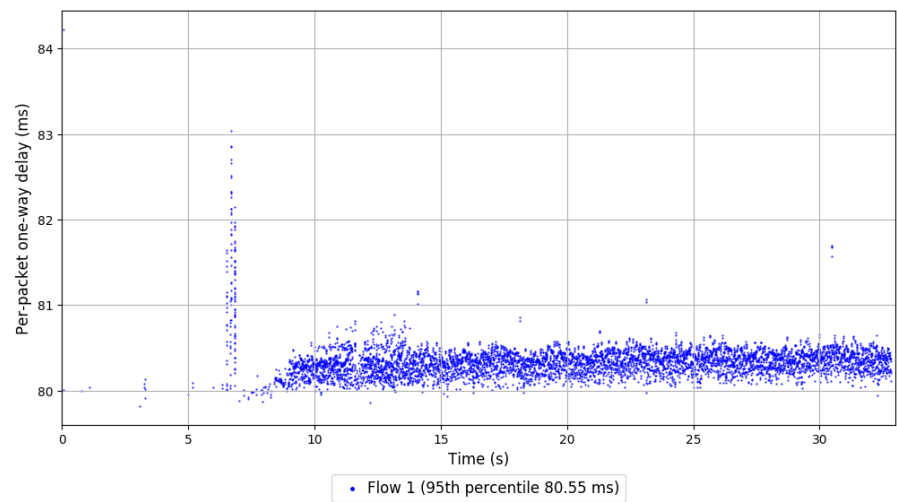
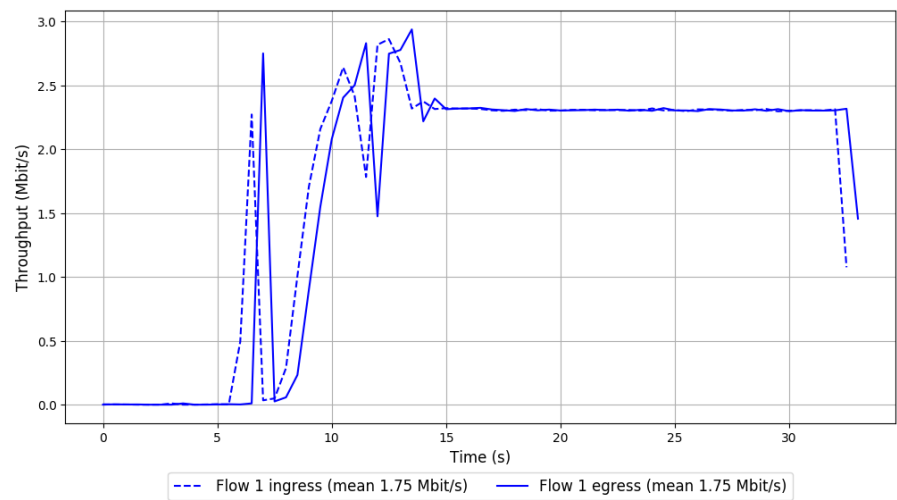
-- Flow 1:

Average throughput: 1.75 Mbit/s

95th percentile per-packet one-way delay: 80.546 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-07-03 11:10:58

End at: 2018-07-03 11:11:28

Local clock offset: -1.509 ms

Remote clock offset: 7.68 ms

Below is generated by plot.py at 2018-07-03 14:03:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.78 Mbit/s

95th percentile per-packet one-way delay: 93.041 ms

Loss rate: 0.07%

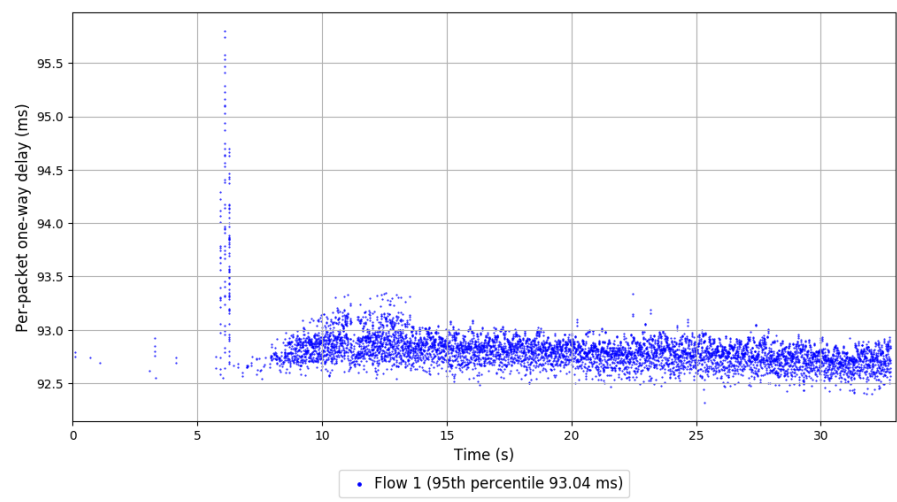
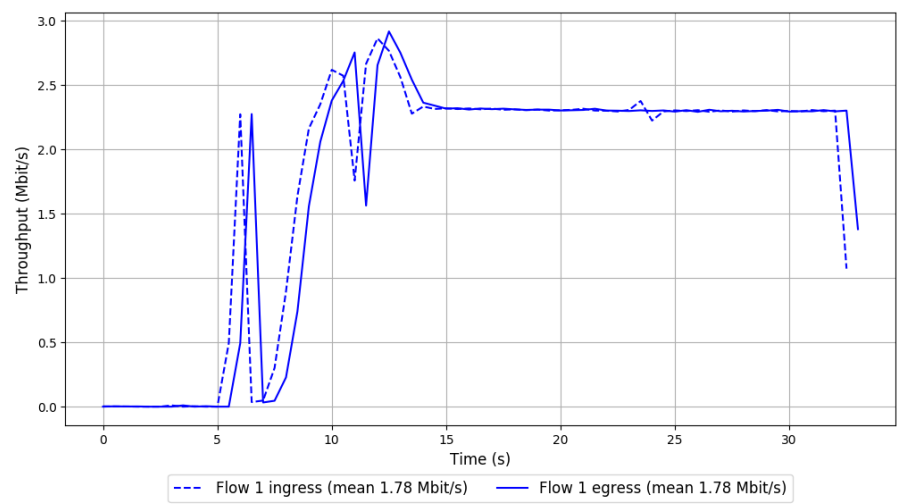
-- Flow 1:

Average throughput: 1.78 Mbit/s

95th percentile per-packet one-way delay: 93.041 ms

Loss rate: 0.07%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-07-03 11:30:50

End at: 2018-07-03 11:31:20

Local clock offset: -7.625 ms

Remote clock offset: 1.368 ms

Below is generated by plot.py at 2018-07-03 14:03:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.78 Mbit/s

95th percentile per-packet one-way delay: 80.955 ms

Loss rate: 0.00%

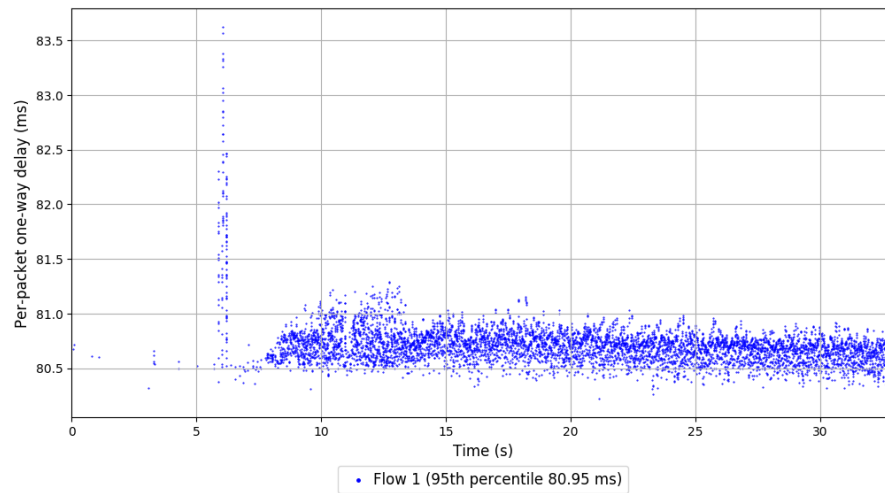
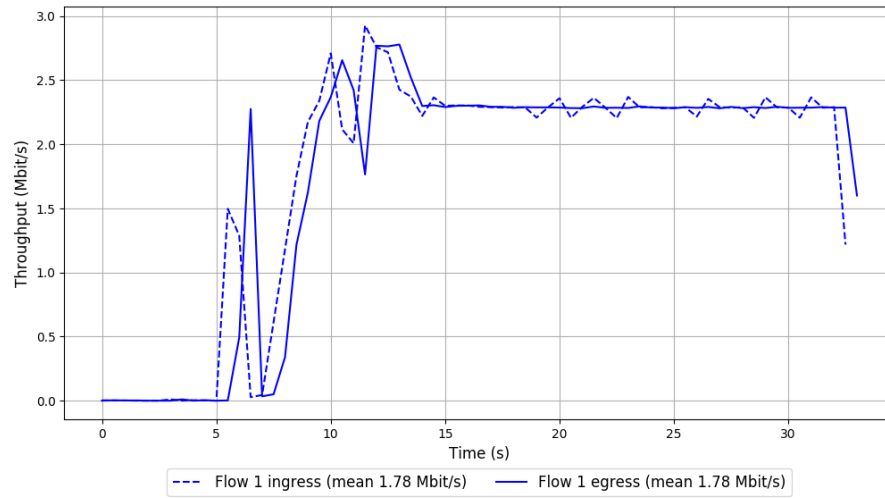
-- Flow 1:

Average throughput: 1.78 Mbit/s

95th percentile per-packet one-way delay: 80.955 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-07-03 11:50:44

End at: 2018-07-03 11:51:14

Local clock offset: -3.711 ms

Remote clock offset: 2.601 ms

Below is generated by plot.py at 2018-07-03 14:03:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.84 Mbit/s

95th percentile per-packet one-way delay: 86.673 ms

Loss rate: 0.00%

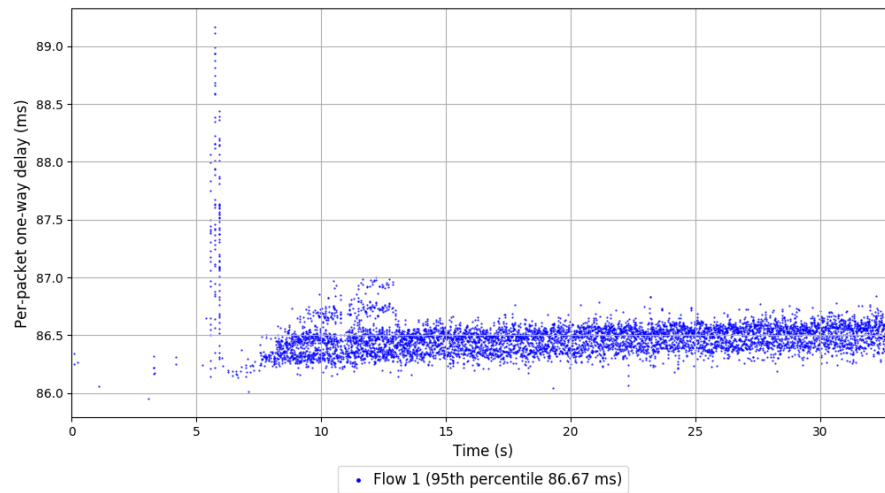
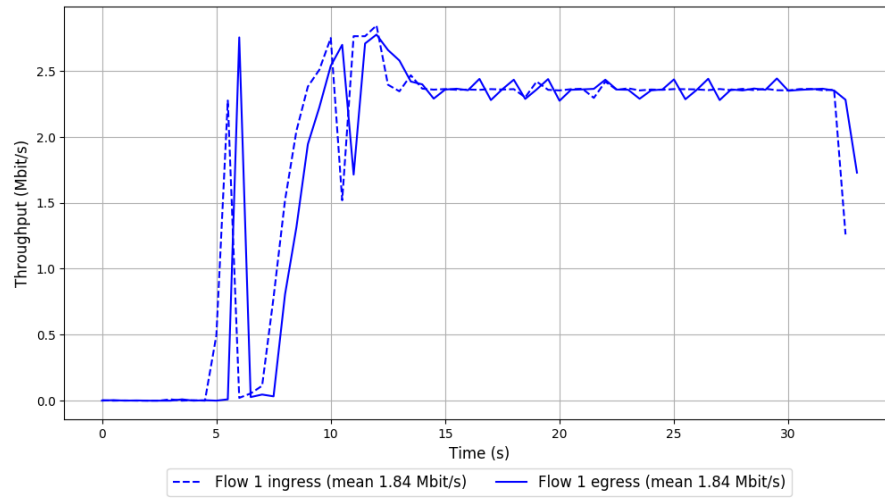
-- Flow 1:

Average throughput: 1.84 Mbit/s

95th percentile per-packet one-way delay: 86.673 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-07-03 12:10:38

End at: 2018-07-03 12:11:08

Local clock offset: -1.214 ms

Remote clock offset: 2.232 ms

Below is generated by plot.py at 2018-07-03 14:03:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.79 Mbit/s

95th percentile per-packet one-way delay: 82.464 ms

Loss rate: 0.05%

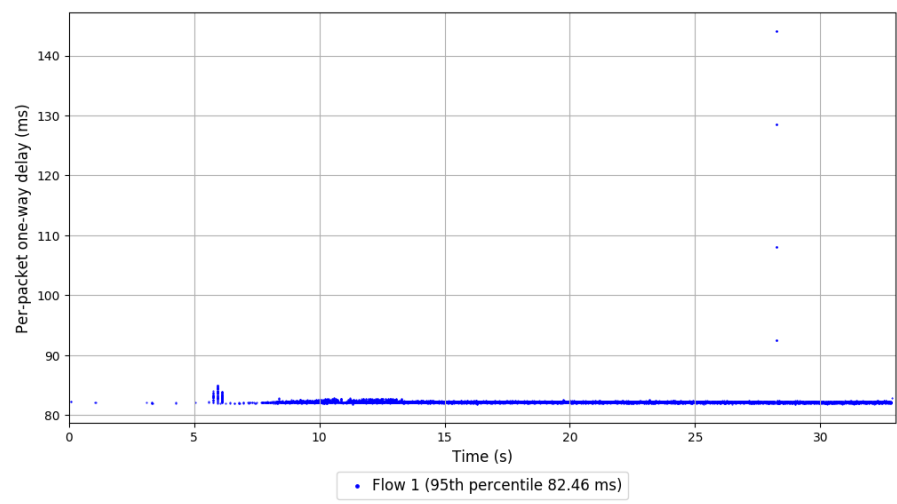
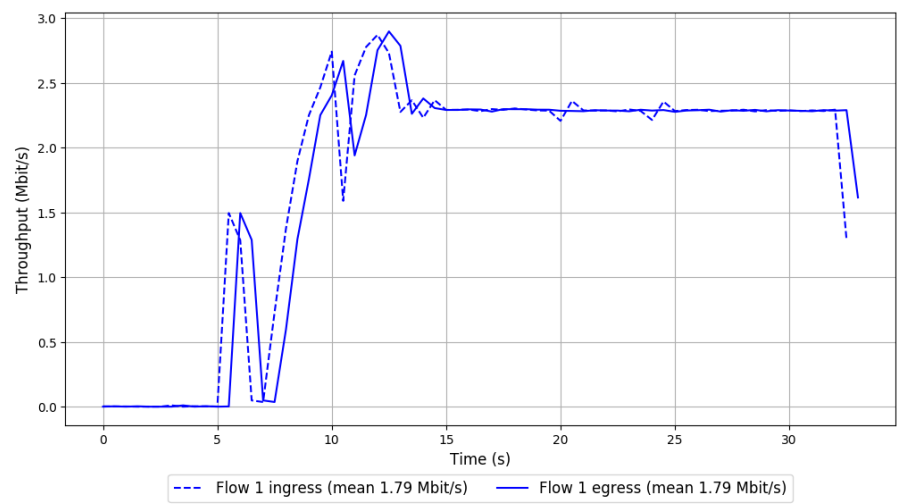
-- Flow 1:

Average throughput: 1.79 Mbit/s

95th percentile per-packet one-way delay: 82.464 ms

Loss rate: 0.05%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-07-03 12:30:40

End at: 2018-07-03 12:31:10

Local clock offset: -2.403 ms

Remote clock offset: 2.489 ms

Below is generated by plot.py at 2018-07-03 14:03:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.82 Mbit/s

95th percentile per-packet one-way delay: 81.490 ms

Loss rate: 0.00%

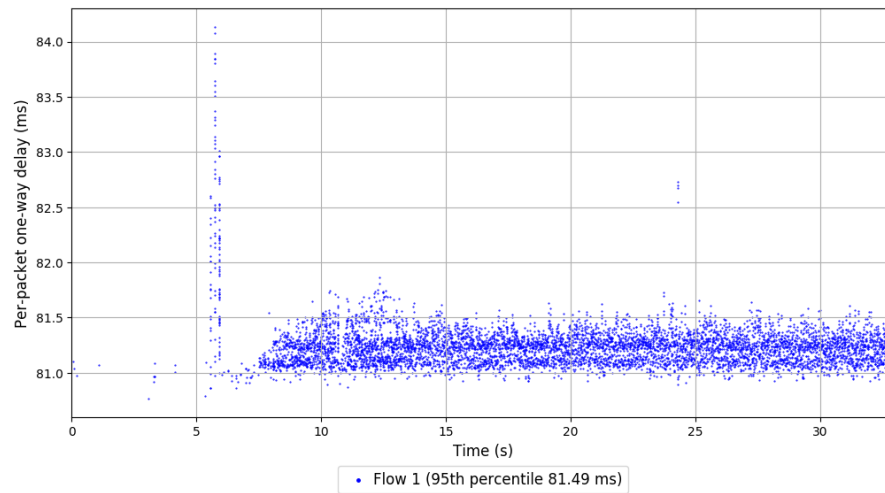
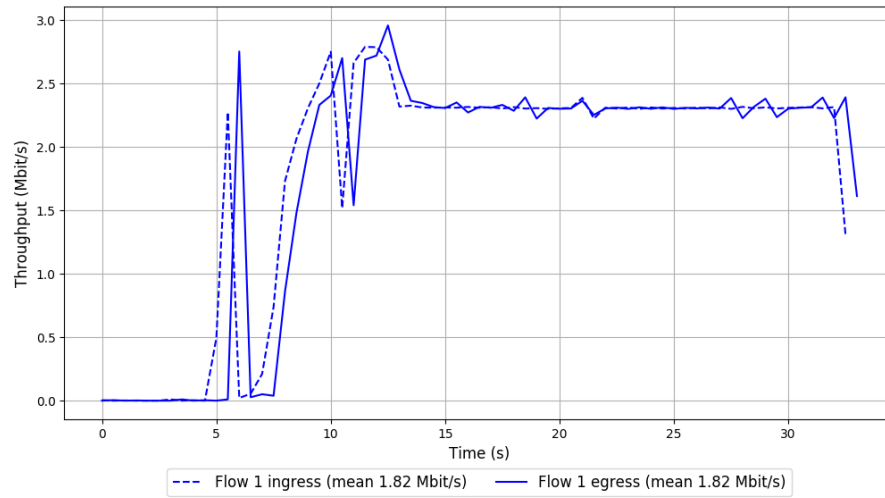
-- Flow 1:

Average throughput: 1.82 Mbit/s

95th percentile per-packet one-way delay: 81.490 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-07-03 12:50:33

End at: 2018-07-03 12:51:03

Local clock offset: -1.941 ms

Remote clock offset: 9.905 ms

Below is generated by plot.py at 2018-07-03 14:03:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.81 Mbit/s

95th percentile per-packet one-way delay: 86.954 ms

Loss rate: 0.00%

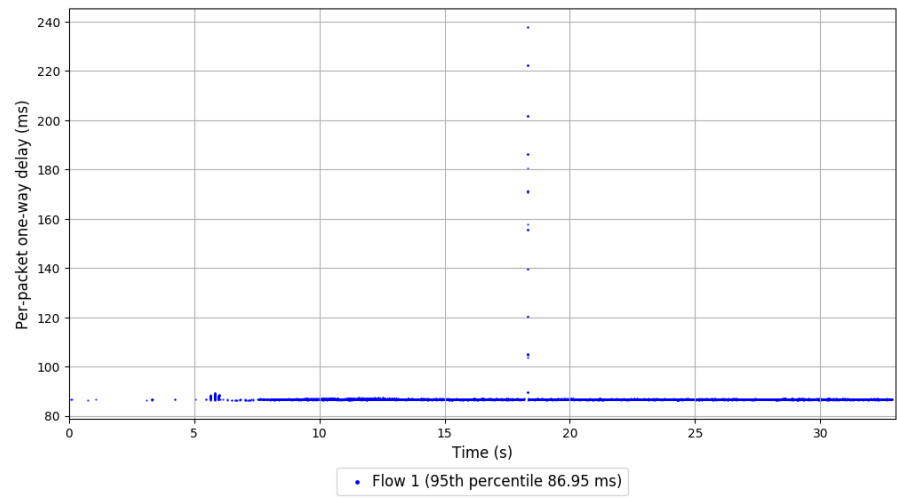
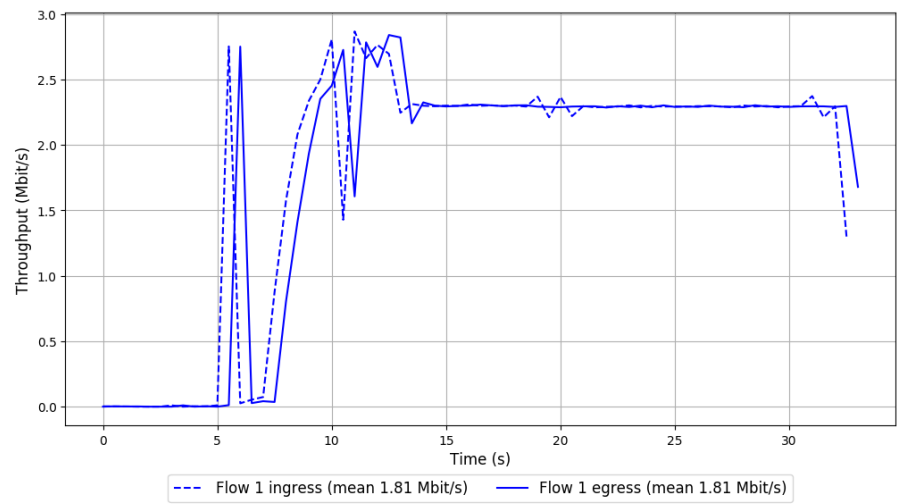
-- Flow 1:

Average throughput: 1.81 Mbit/s

95th percentile per-packet one-way delay: 86.954 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-07-03 13:10:25

End at: 2018-07-03 13:10:55

Local clock offset: -1.458 ms

Remote clock offset: 5.093 ms

Below is generated by plot.py at 2018-07-03 14:03:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.77 Mbit/s

95th percentile per-packet one-way delay: 79.550 ms

Loss rate: 0.00%

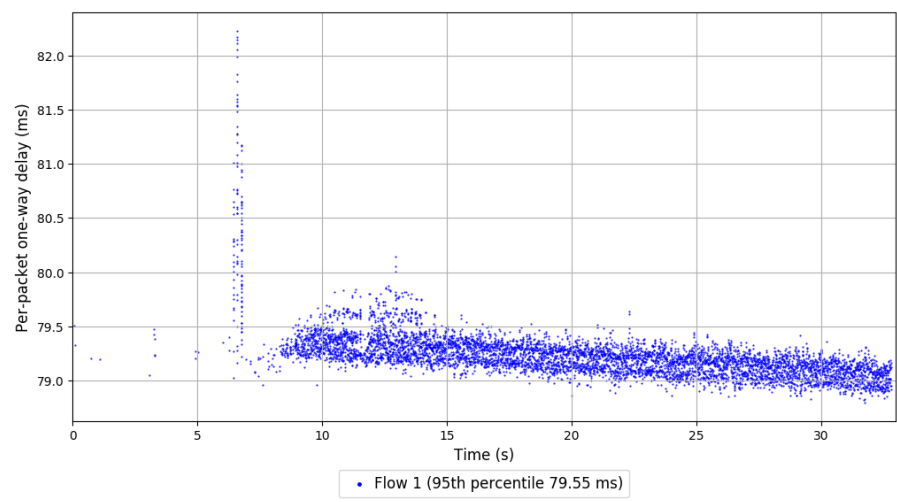
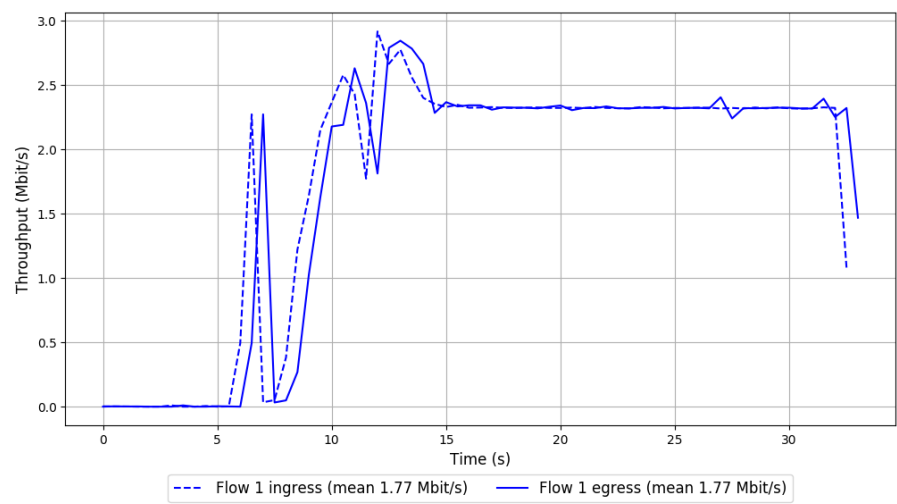
-- Flow 1:

Average throughput: 1.77 Mbit/s

95th percentile per-packet one-way delay: 79.550 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-07-03 13:30:19
End at: 2018-07-03 13:30:49
Local clock offset: -1.415 ms
Remote clock offset: 14.032 ms

Below is generated by plot.py at 2018-07-03 14:03:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.81 Mbit/s
95th percentile per-packet one-way delay: 82.418 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.81 Mbit/s
95th percentile per-packet one-way delay: 82.418 ms
Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

