

Pantheon Report

Generated at 2018-08-09 04:37:19 (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.

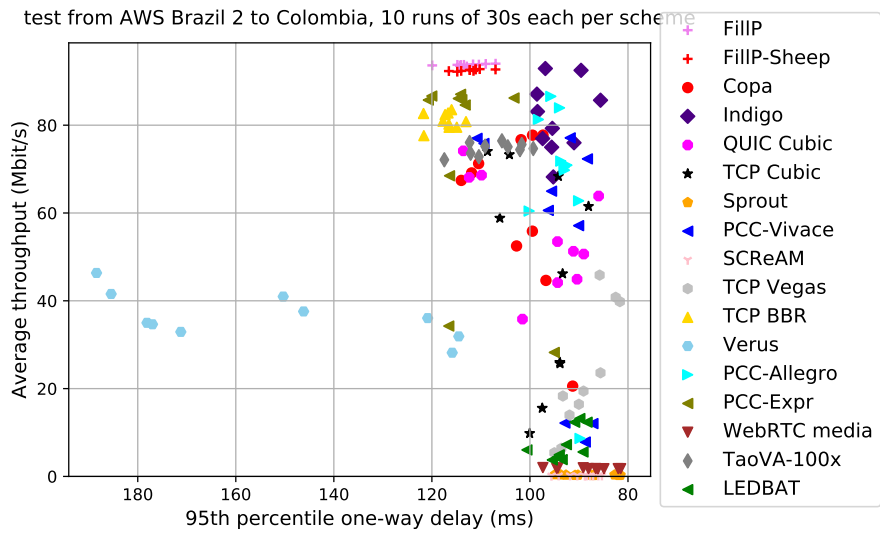
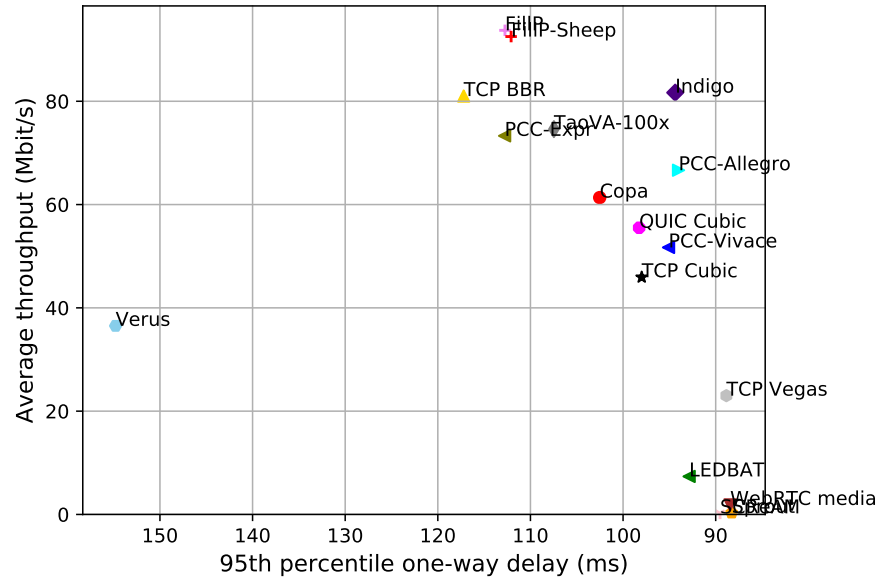
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

Git summary:

```
branch: master @ 7772df3413f4b07ba0096dfdd8e9d4c6dca623e3
third_party/fillp @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/fillp-sheep @ daed0c84f98531712514b2231f43ec6901114ffe
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf5e58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ 6f038ed31259d366f9840f65b82cbe8f464b1b39
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quick @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webRTC @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
```

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



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	81.01	117.21	3.68
Copa	10	61.35	102.52	1.31
TCP Cubic	10	45.93	97.99	0.61
FillP	10	93.73	112.75	8.29
FillP-Sheep	10	92.53	112.09	2.22
Indigo	10	81.67	94.37	0.59
LEDBAT	10	7.36	92.87	0.11
PCC-Allegro	10	66.65	94.01	1.62
PCC-Expr	10	73.30	112.79	1.97
QUIC Cubic	10	55.51	98.26	0.50
SCReAM	10	0.21	89.53	0.07
Sprout	10	0.31	88.28	0.10
TaoVA-100x	10	74.61	107.47	0.34
TCP Vegas	10	23.00	88.85	0.46
Verus	10	36.51	154.79	59.82
PCC-Vivace	10	51.70	95.09	0.10
WebRTC media	10	1.84	88.45	0.04

Run 1: Statistics of TCP BBR

Start at: 2018-08-09 01:15:41

End at: 2018-08-09 01:16:11

Local clock offset: -9.345 ms

Remote clock offset: 4.041 ms

Below is generated by plot.py at 2018-08-09 04:21:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 80.92 Mbit/s

95th percentile per-packet one-way delay: 117.740 ms

Loss rate: 3.52%

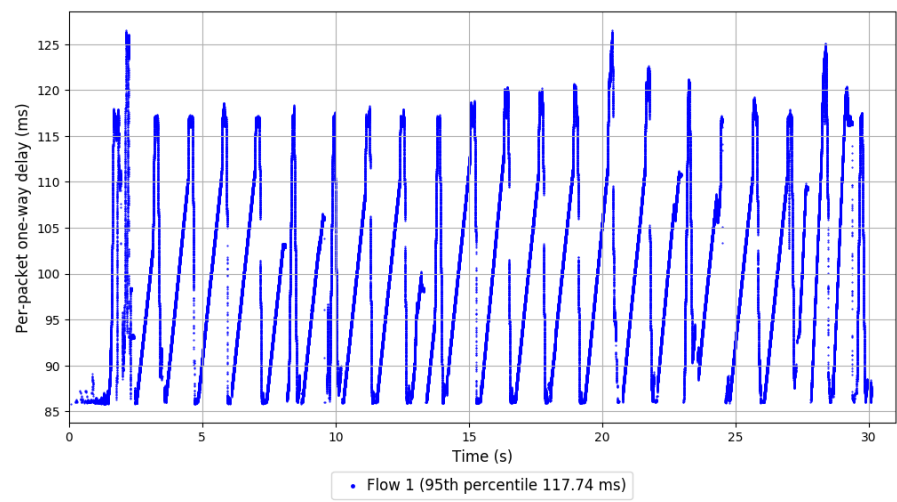
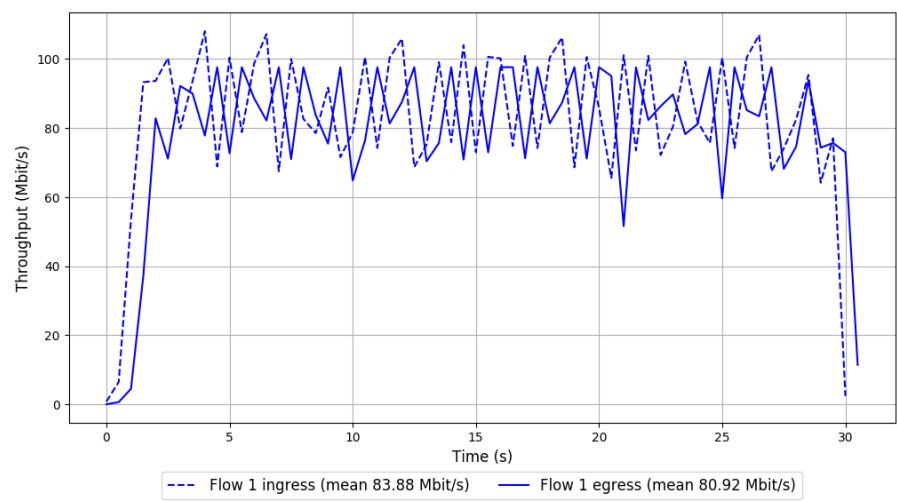
-- Flow 1:

Average throughput: 80.92 Mbit/s

95th percentile per-packet one-way delay: 117.740 ms

Loss rate: 3.52%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-08-09 01:35:19

End at: 2018-08-09 01:35:49

Local clock offset: -8.112 ms

Remote clock offset: 2.863 ms

Below is generated by plot.py at 2018-08-09 04:21:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 80.82 Mbit/s

95th percentile per-packet one-way delay: 113.045 ms

Loss rate: 3.71%

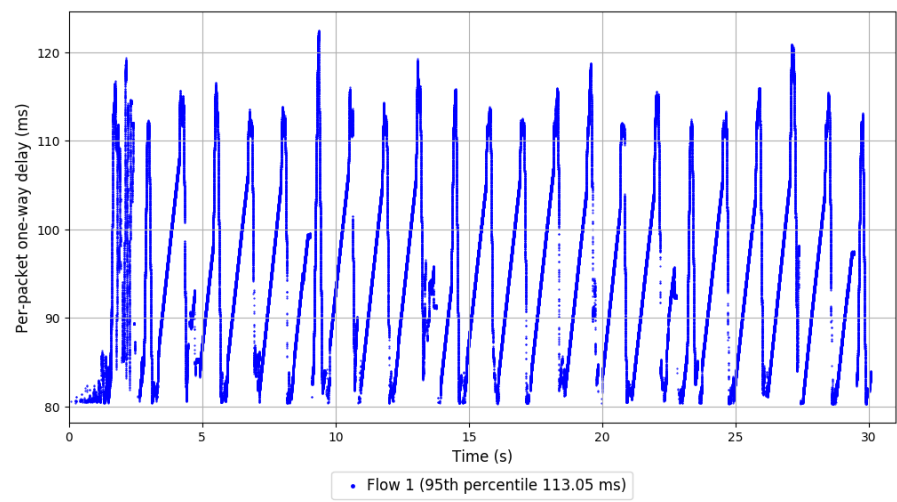
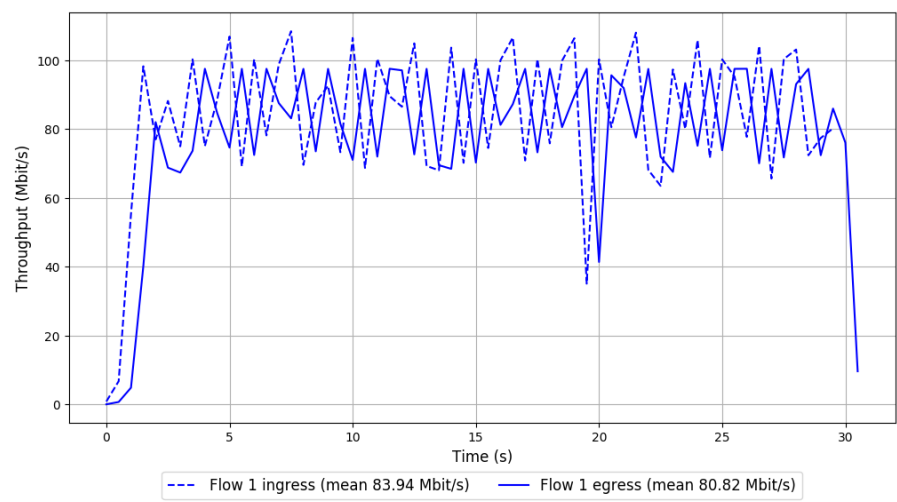
-- Flow 1:

Average throughput: 80.82 Mbit/s

95th percentile per-packet one-way delay: 113.045 ms

Loss rate: 3.71%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-08-09 01:55:07

End at: 2018-08-09 01:55:37

Local clock offset: -4.783 ms

Remote clock offset: 4.795 ms

Below is generated by plot.py at 2018-08-09 04:21:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.54 Mbit/s

95th percentile per-packet one-way delay: 114.930 ms

Loss rate: 3.13%

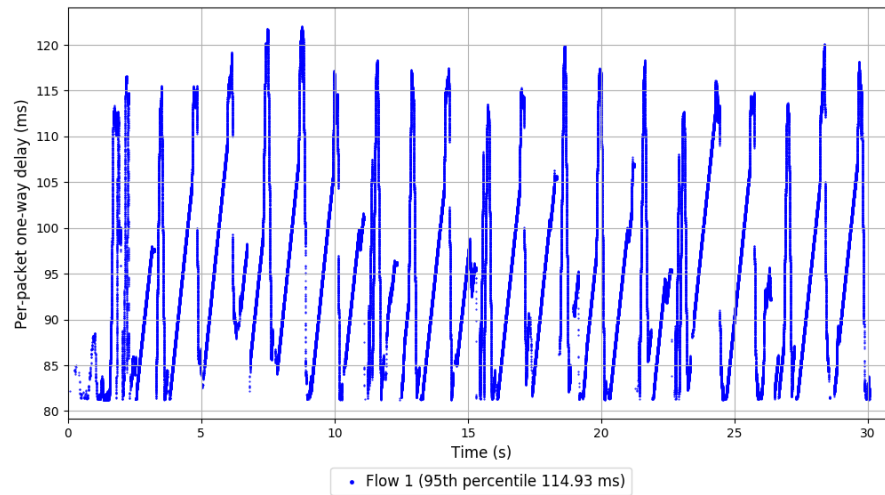
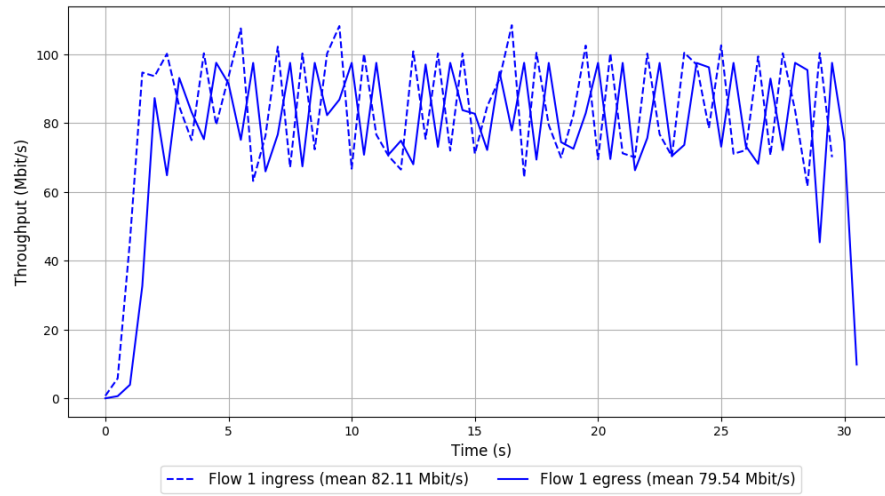
-- Flow 1:

Average throughput: 79.54 Mbit/s

95th percentile per-packet one-way delay: 114.930 ms

Loss rate: 3.13%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-08-09 02:14:44

End at: 2018-08-09 02:15:14

Local clock offset: -2.666 ms

Remote clock offset: 7.527 ms

Below is generated by plot.py at 2018-08-09 04:21:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.53 Mbit/s

95th percentile per-packet one-way delay: 116.493 ms

Loss rate: 3.46%

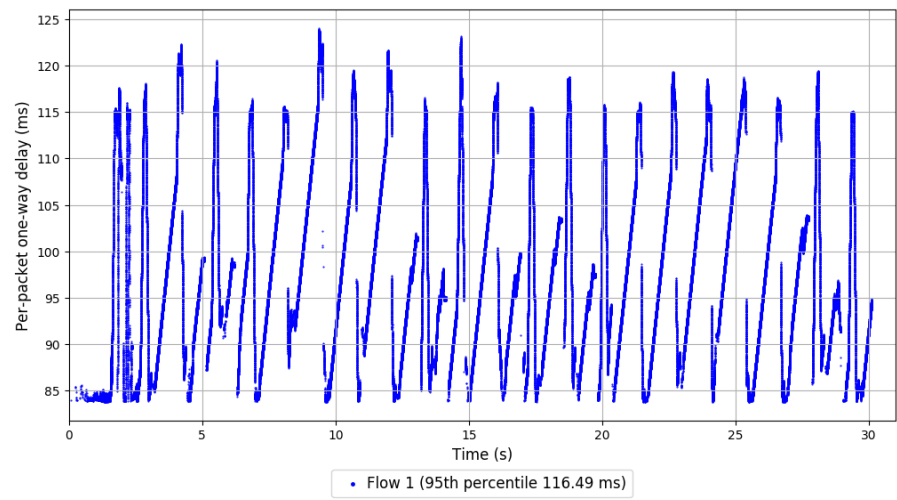
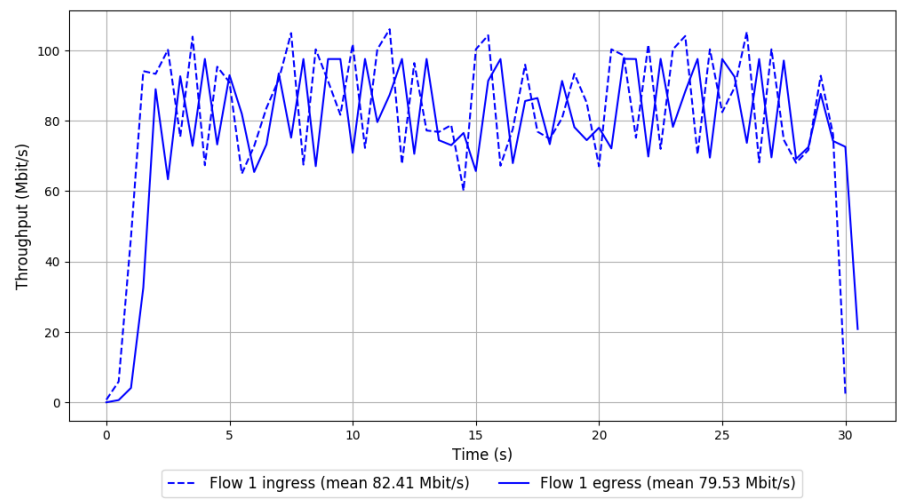
-- Flow 1:

Average throughput: 79.53 Mbit/s

95th percentile per-packet one-way delay: 116.493 ms

Loss rate: 3.46%

Run 4: Report of TCP BBR — Data Link

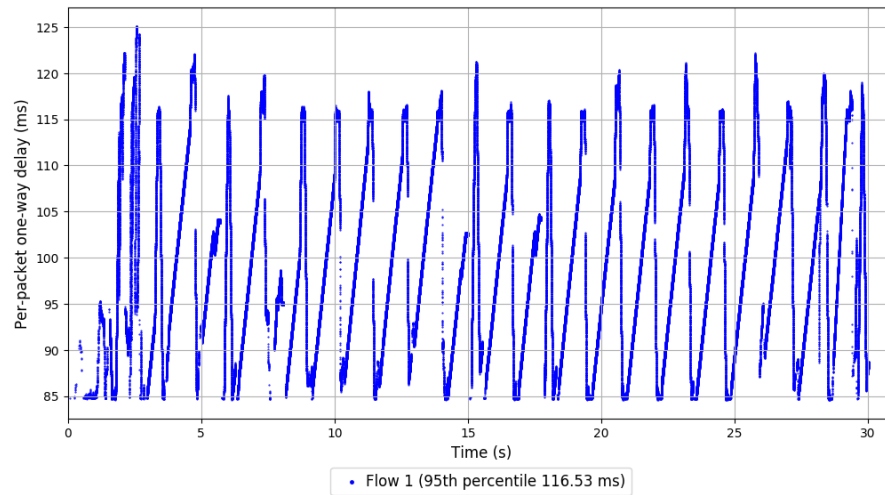
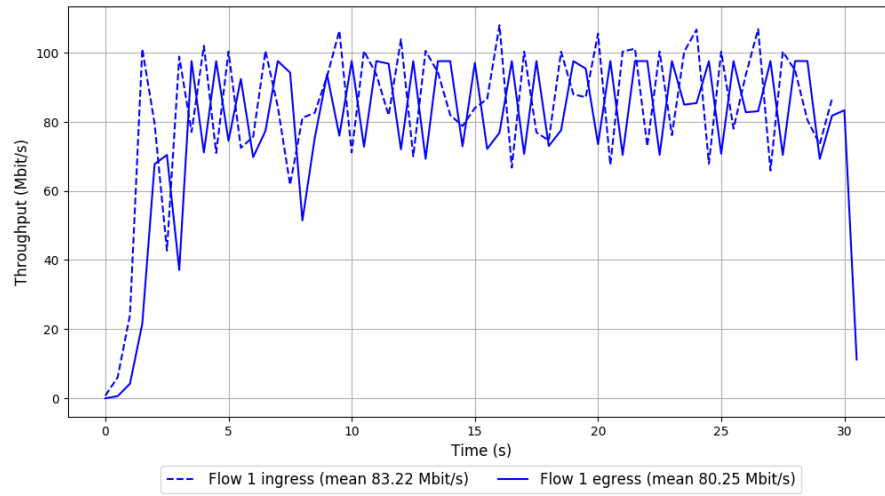


Run 5: Statistics of TCP BBR

Start at: 2018-08-09 02:34:31
End at: 2018-08-09 02:35:01
Local clock offset: -2.544 ms
Remote clock offset: 11.682 ms

Below is generated by plot.py at 2018-08-09 04:21:23
Datalink statistics
-- Total of 1 flow:
Average throughput: 80.25 Mbit/s
95th percentile per-packet one-way delay: 116.525 ms
Loss rate: 3.55%
-- Flow 1:
Average throughput: 80.25 Mbit/s
95th percentile per-packet one-way delay: 116.525 ms
Loss rate: 3.55%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-08-09 02:54:24

End at: 2018-08-09 02:54:54

Local clock offset: -5.396 ms

Remote clock offset: 4.848 ms

Below is generated by plot.py at 2018-08-09 04:21:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.62 Mbit/s

95th percentile per-packet one-way delay: 121.639 ms

Loss rate: 3.52%

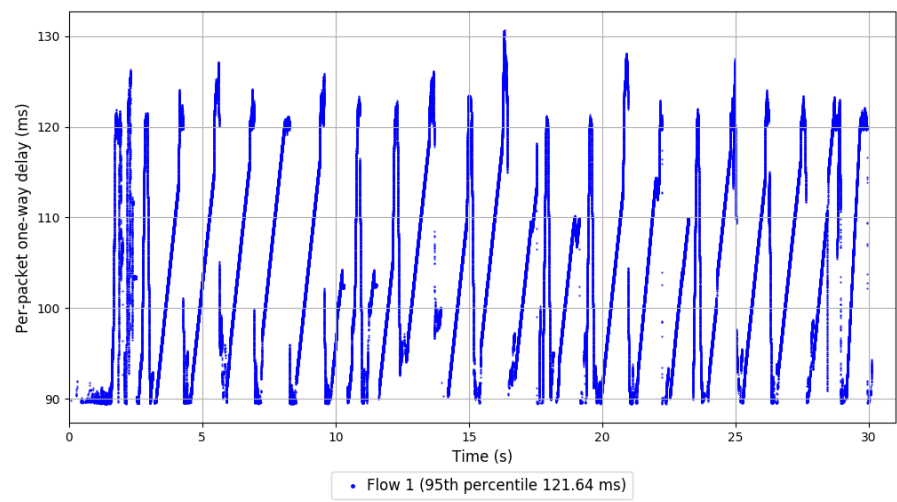
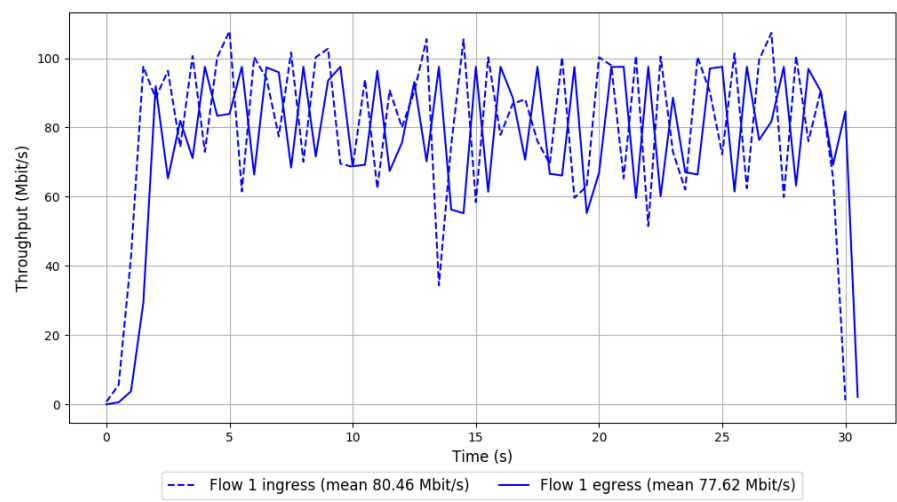
-- Flow 1:

Average throughput: 77.62 Mbit/s

95th percentile per-packet one-way delay: 121.639 ms

Loss rate: 3.52%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-08-09 03:14:26

End at: 2018-08-09 03:14:56

Local clock offset: -7.725 ms

Remote clock offset: 0.399 ms

Below is generated by plot.py at 2018-08-09 04:21:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.42 Mbit/s

95th percentile per-packet one-way delay: 117.305 ms

Loss rate: 4.08%

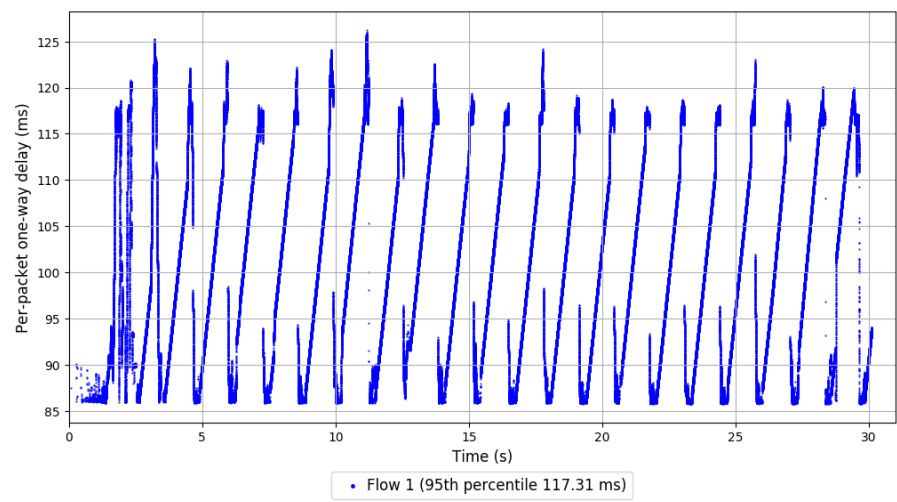
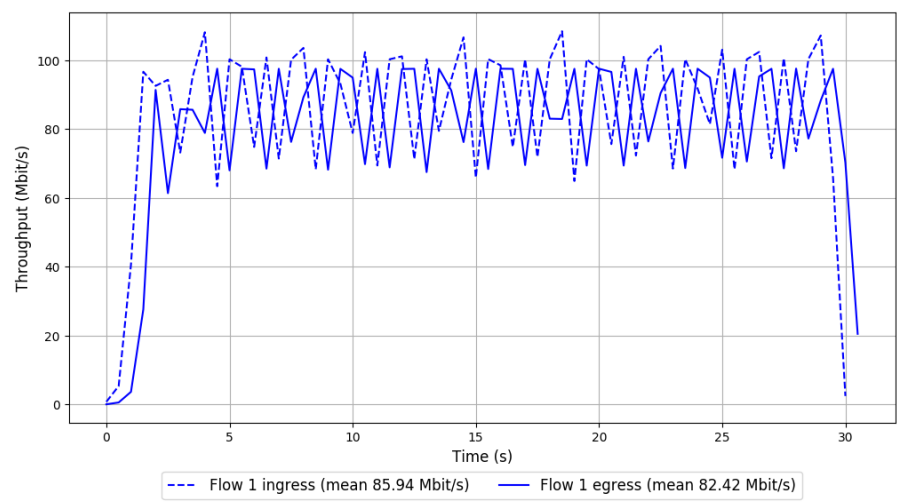
-- Flow 1:

Average throughput: 82.42 Mbit/s

95th percentile per-packet one-way delay: 117.305 ms

Loss rate: 4.08%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-08-09 03:34:20

End at: 2018-08-09 03:34:50

Local clock offset: -8.367 ms

Remote clock offset: 6.025 ms

Below is generated by plot.py at 2018-08-09 04:21:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.79 Mbit/s

95th percentile per-packet one-way delay: 116.702 ms

Loss rate: 3.89%

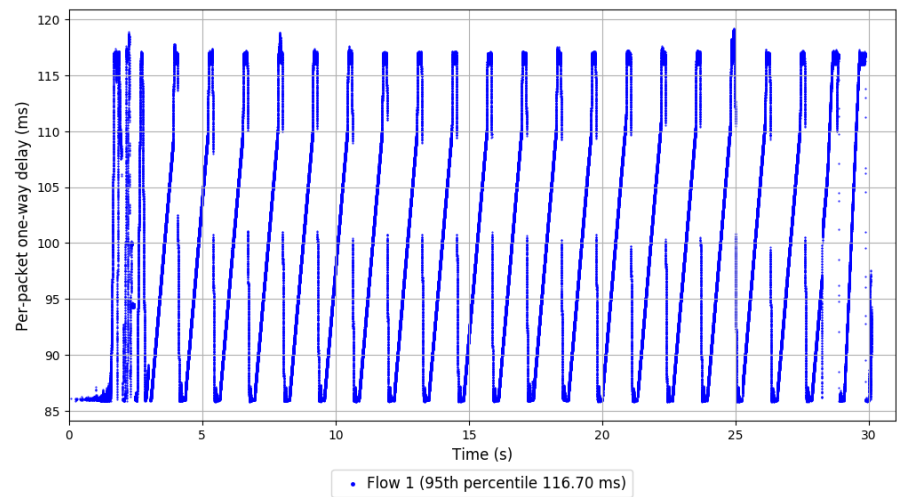
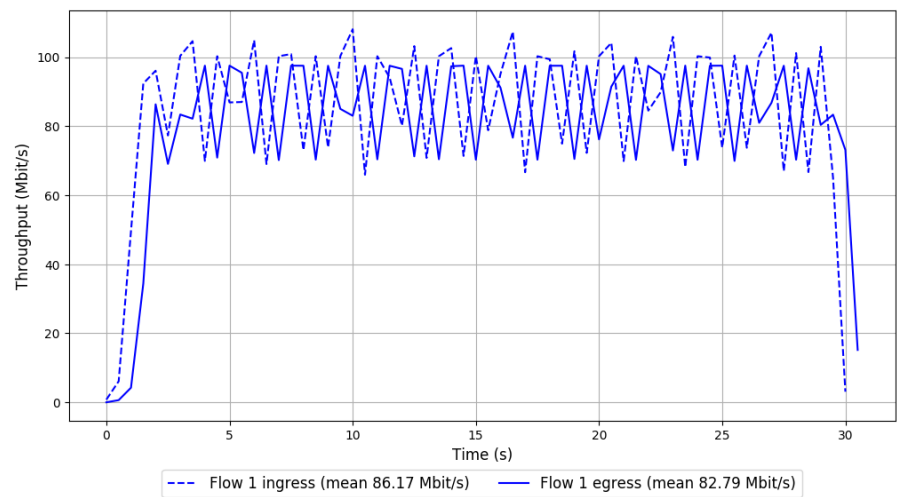
-- Flow 1:

Average throughput: 82.79 Mbit/s

95th percentile per-packet one-way delay: 116.702 ms

Loss rate: 3.89%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-08-09 03:54:15

End at: 2018-08-09 03:54:45

Local clock offset: -4.03 ms

Remote clock offset: 3.311 ms

Below is generated by plot.py at 2018-08-09 04:22:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.53 Mbit/s

95th percentile per-packet one-way delay: 115.989 ms

Loss rate: 3.88%

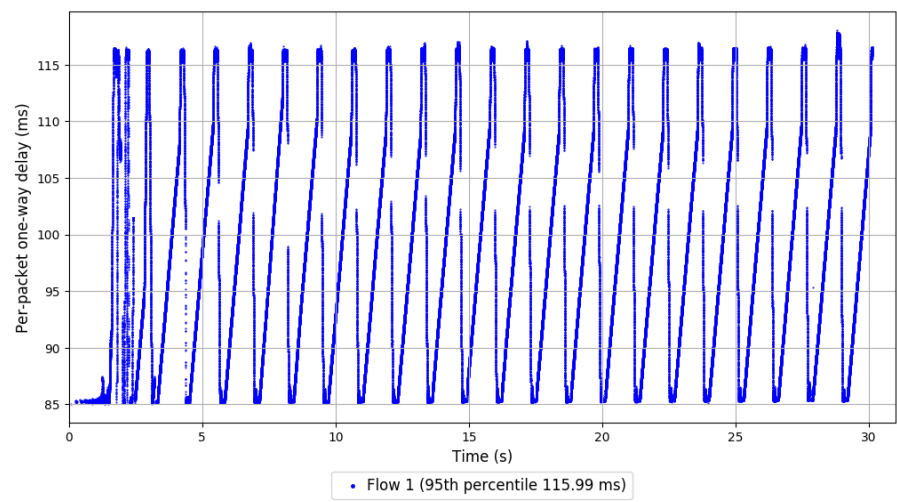
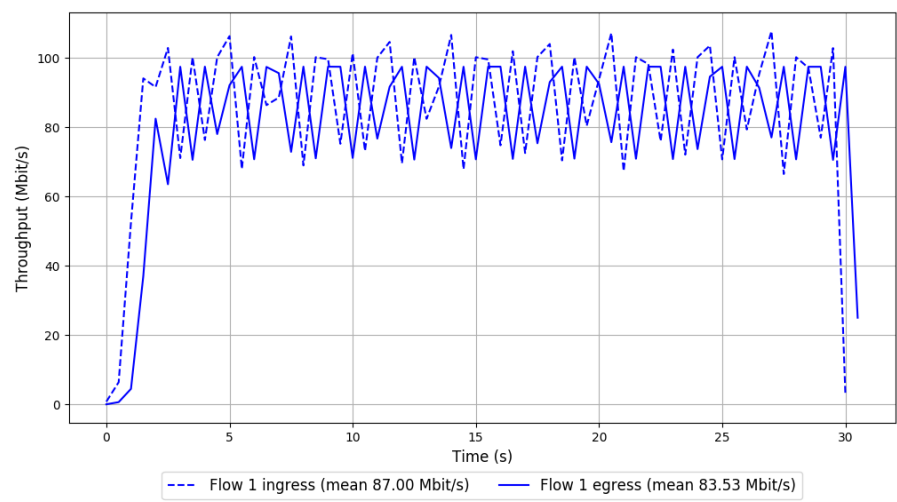
-- Flow 1:

Average throughput: 83.53 Mbit/s

95th percentile per-packet one-way delay: 115.989 ms

Loss rate: 3.88%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-08-09 04:14:07

End at: 2018-08-09 04:14:37

Local clock offset: -0.459 ms

Remote clock offset: 3.769 ms

Below is generated by plot.py at 2018-08-09 04:22:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.66 Mbit/s

95th percentile per-packet one-way delay: 121.706 ms

Loss rate: 4.02%

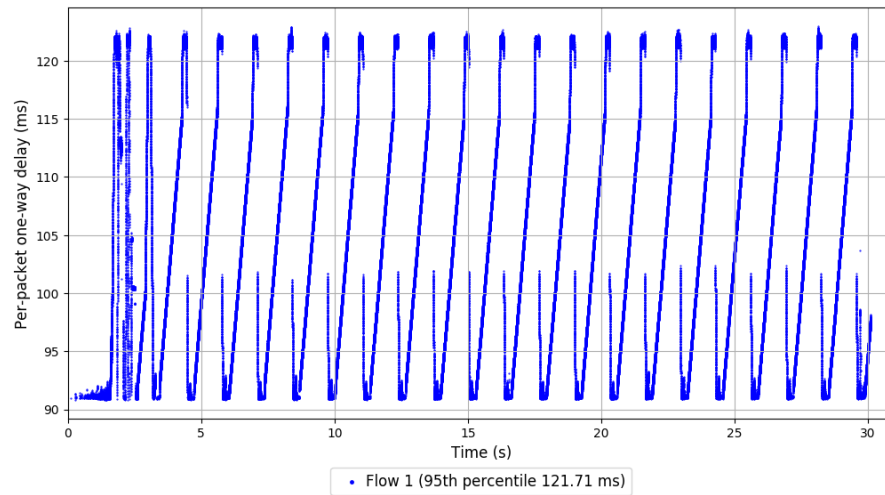
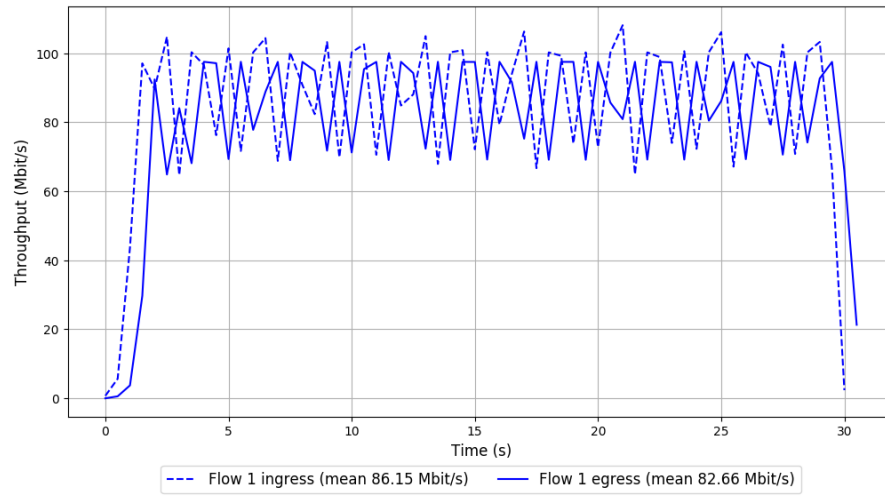
-- Flow 1:

Average throughput: 82.66 Mbit/s

95th percentile per-packet one-way delay: 121.706 ms

Loss rate: 4.02%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2018-08-09 01:08:27

End at: 2018-08-09 01:08:57

Local clock offset: -8.519 ms

Remote clock offset: 3.947 ms

Below is generated by plot.py at 2018-08-09 04:23:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.74 Mbit/s

95th percentile per-packet one-way delay: 97.336 ms

Loss rate: 0.47%

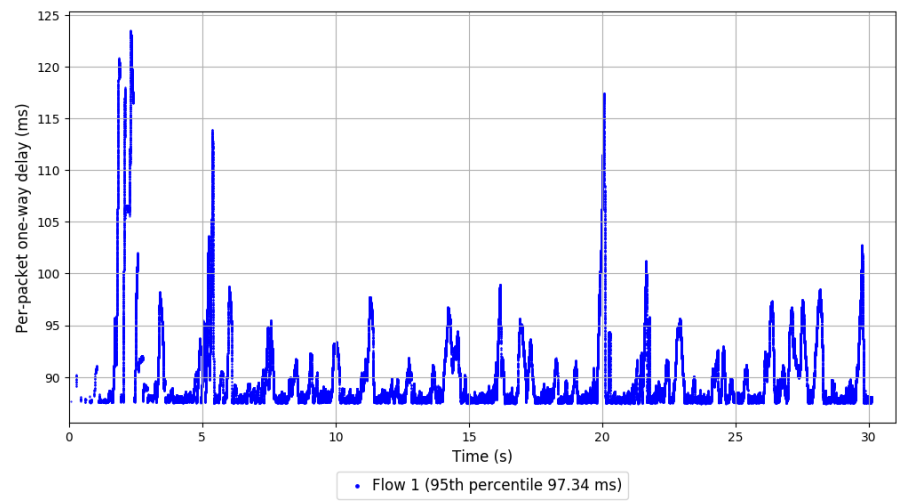
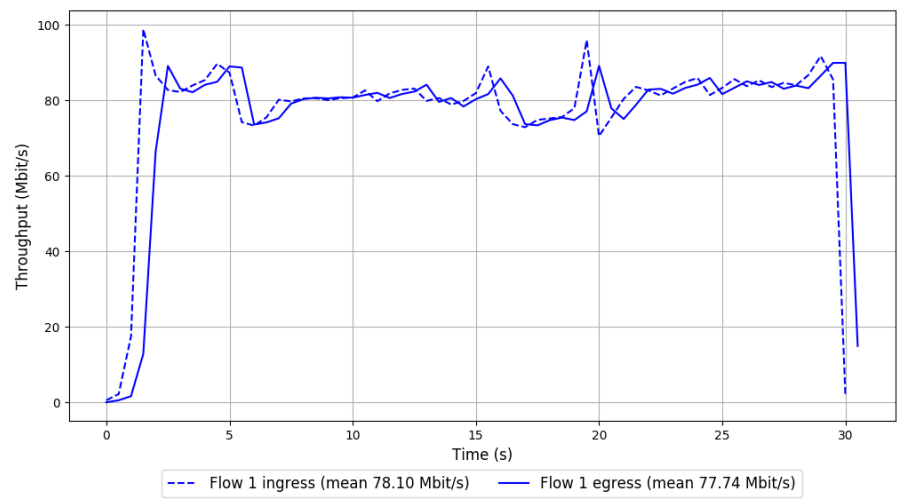
-- Flow 1:

Average throughput: 77.74 Mbit/s

95th percentile per-packet one-way delay: 97.336 ms

Loss rate: 0.47%

Run 1: Report of Copa — Data Link

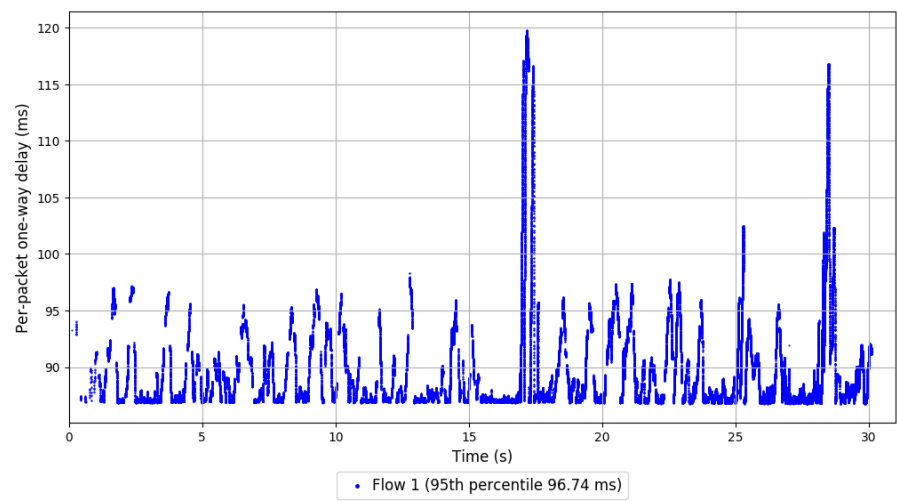
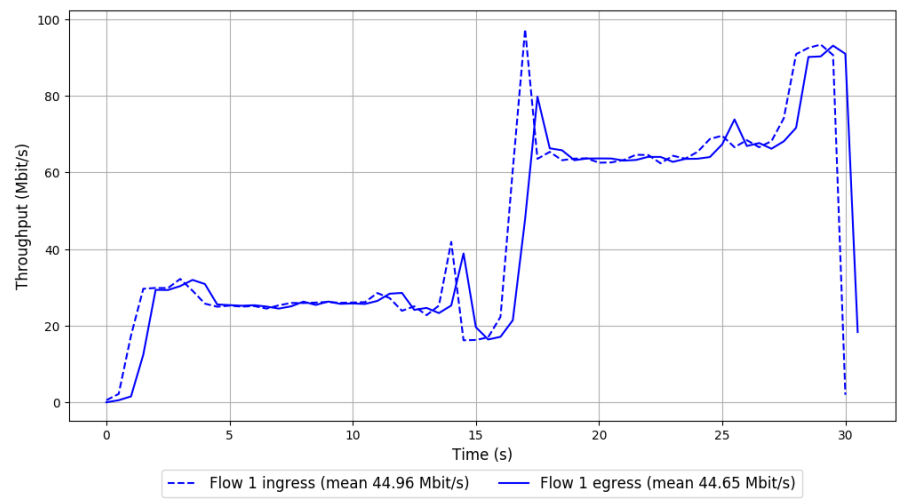


Run 2: Statistics of Copa

Start at: 2018-08-09 01:28:14
End at: 2018-08-09 01:28:44
Local clock offset: -7.957 ms
Remote clock offset: 5.196 ms

Below is generated by plot.py at 2018-08-09 04:23:01
Datalink statistics
-- Total of 1 flow:
Average throughput: 44.65 Mbit/s
95th percentile per-packet one-way delay: 96.736 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 44.65 Mbit/s
95th percentile per-packet one-way delay: 96.736 ms
Loss rate: 0.71%

Run 2: Report of Copa — Data Link

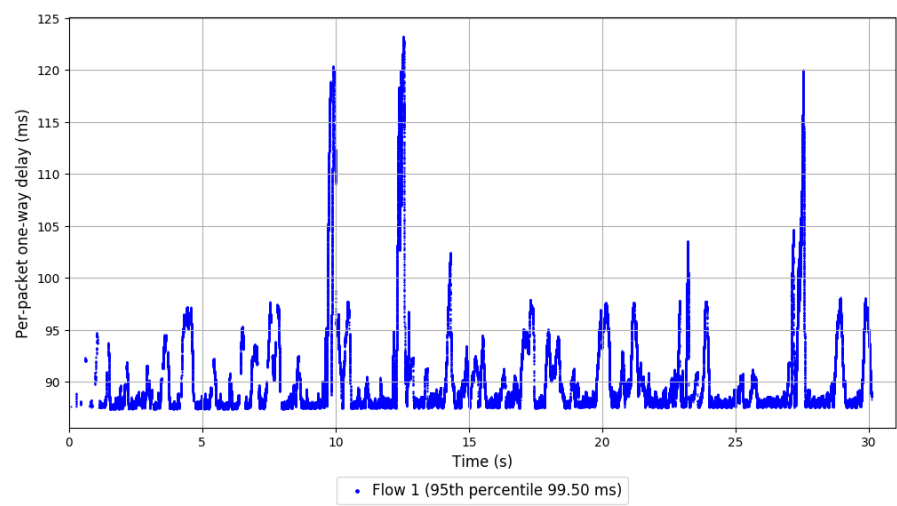
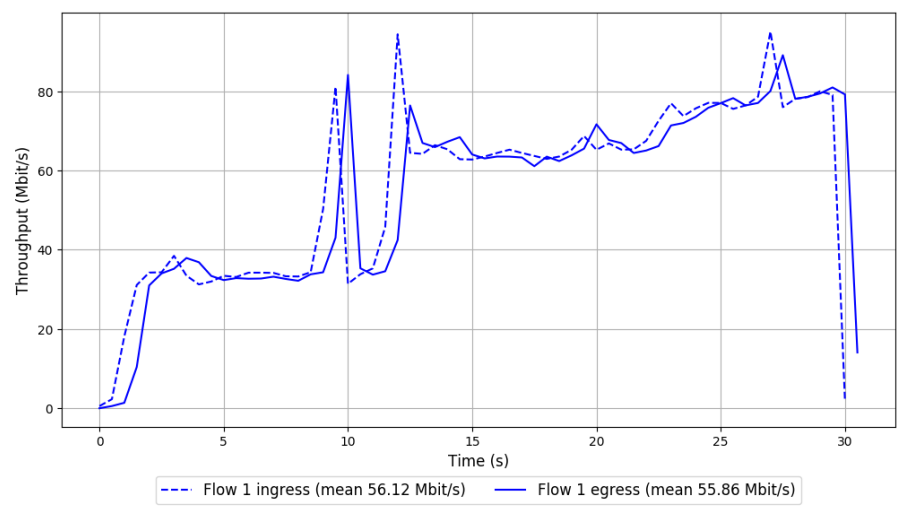


Run 3: Statistics of Copa

Start at: 2018-08-09 01:48:00
End at: 2018-08-09 01:48:30
Local clock offset: -7.281 ms
Remote clock offset: 5.067 ms

Below is generated by plot.py at 2018-08-09 04:23:01
Datalink statistics
-- Total of 1 flow:
Average throughput: 55.86 Mbit/s
95th percentile per-packet one-way delay: 99.501 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 55.86 Mbit/s
95th percentile per-packet one-way delay: 99.501 ms
Loss rate: 0.46%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-08-09 02:07:40

End at: 2018-08-09 02:08:10

Local clock offset: -3.04 ms

Remote clock offset: 6.886 ms

Below is generated by plot.py at 2018-08-09 04:23:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 20.57 Mbit/s

95th percentile per-packet one-way delay: 91.283 ms

Loss rate: 0.23%

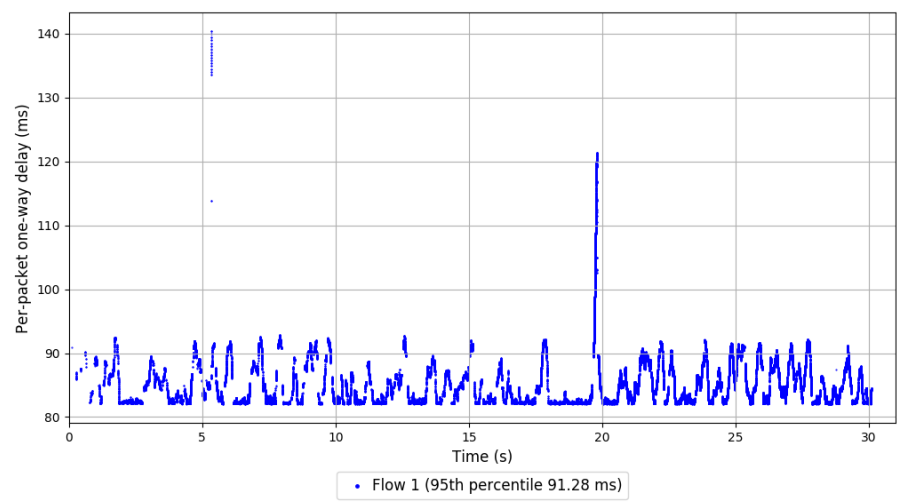
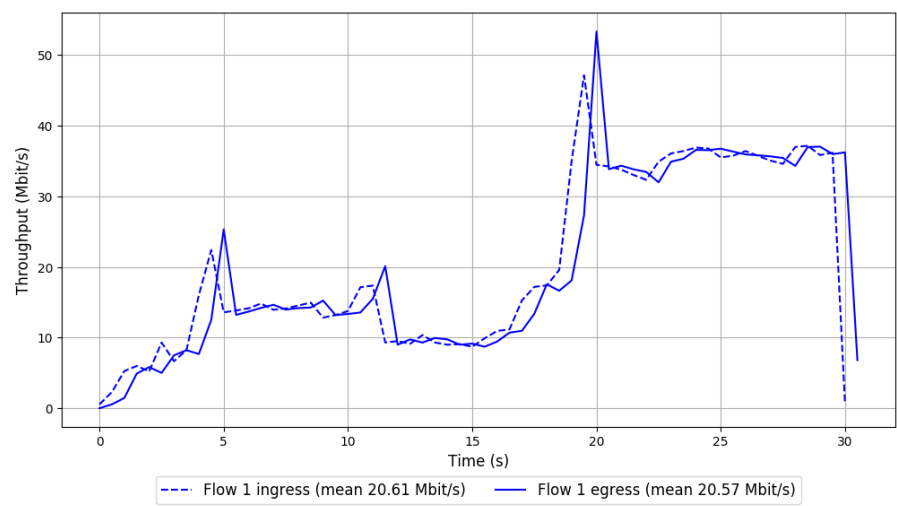
-- Flow 1:

Average throughput: 20.57 Mbit/s

95th percentile per-packet one-way delay: 91.283 ms

Loss rate: 0.23%

Run 4: Report of Copa — Data Link

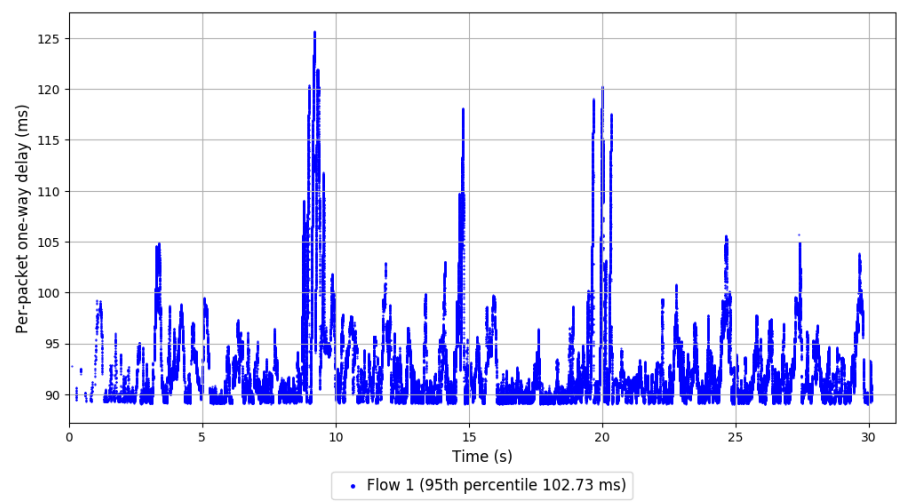
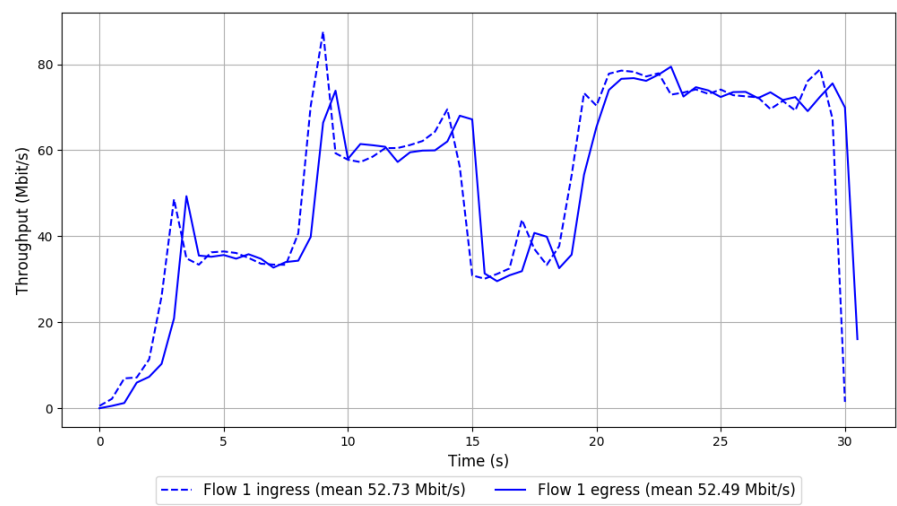


Run 5: Statistics of Copa

Start at: 2018-08-09 02:27:21
End at: 2018-08-09 02:27:51
Local clock offset: -2.704 ms
Remote clock offset: 12.153 ms

Below is generated by plot.py at 2018-08-09 04:23:01
Datalink statistics
-- Total of 1 flow:
Average throughput: 52.49 Mbit/s
95th percentile per-packet one-way delay: 102.730 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 52.49 Mbit/s
95th percentile per-packet one-way delay: 102.730 ms
Loss rate: 0.46%

Run 5: Report of Copa — Data Link

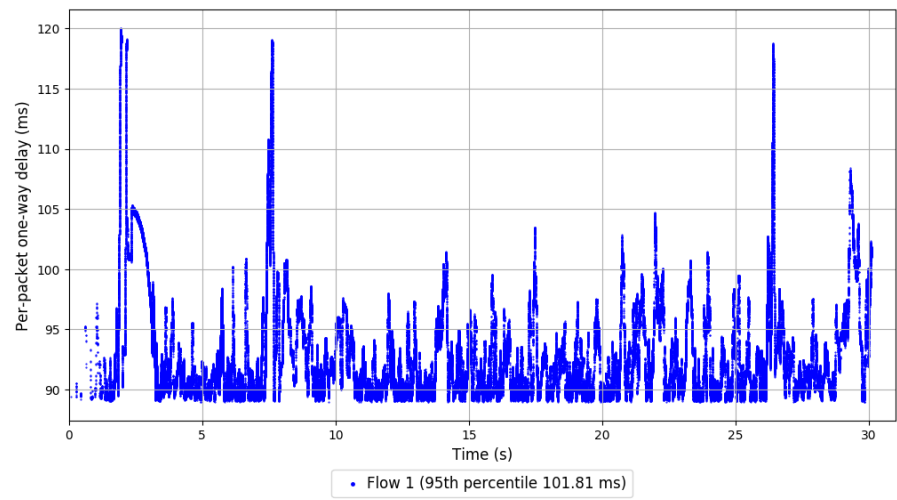
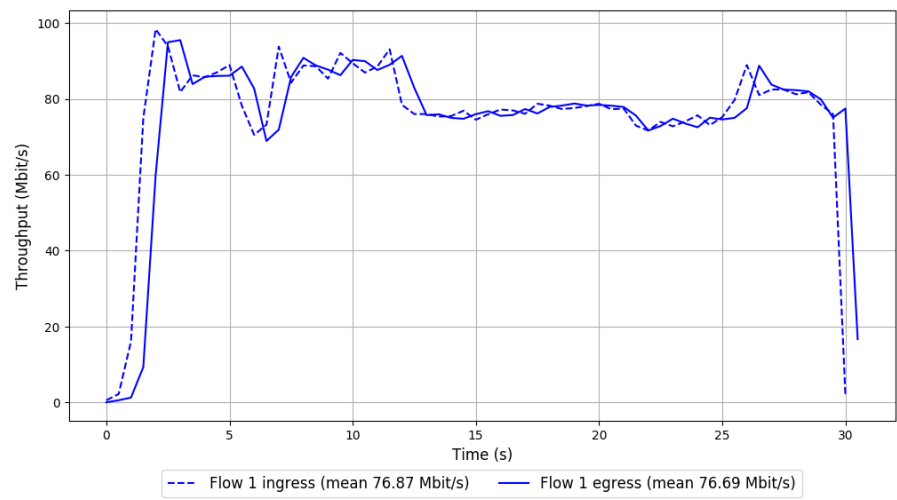


Run 6: Statistics of Copa

Start at: 2018-08-09 02:47:13
End at: 2018-08-09 02:47:43
Local clock offset: -2.972 ms
Remote clock offset: 6.794 ms

Below is generated by plot.py at 2018-08-09 04:23:02
Datalink statistics
-- Total of 1 flow:
Average throughput: 76.69 Mbit/s
95th percentile per-packet one-way delay: 101.811 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 76.69 Mbit/s
95th percentile per-packet one-way delay: 101.811 ms
Loss rate: 0.22%

Run 6: Report of Copa — Data Link

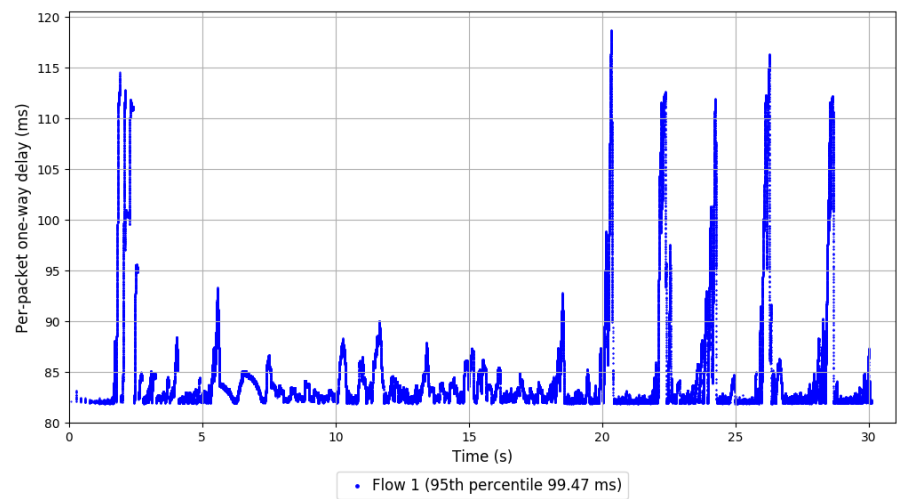
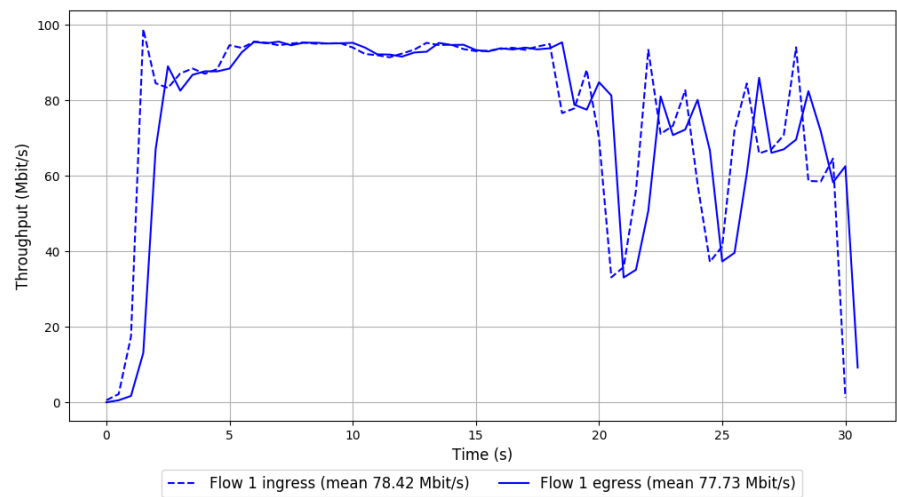


Run 7: Statistics of Copa

Start at: 2018-08-09 03:07:14
End at: 2018-08-09 03:07:44
Local clock offset: -7.167 ms
Remote clock offset: -0.682 ms

Below is generated by plot.py at 2018-08-09 04:23:33
Datalink statistics
-- Total of 1 flow:
Average throughput: 77.73 Mbit/s
95th percentile per-packet one-way delay: 99.472 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 77.73 Mbit/s
95th percentile per-packet one-way delay: 99.472 ms
Loss rate: 0.89%

Run 7: Report of Copa — Data Link

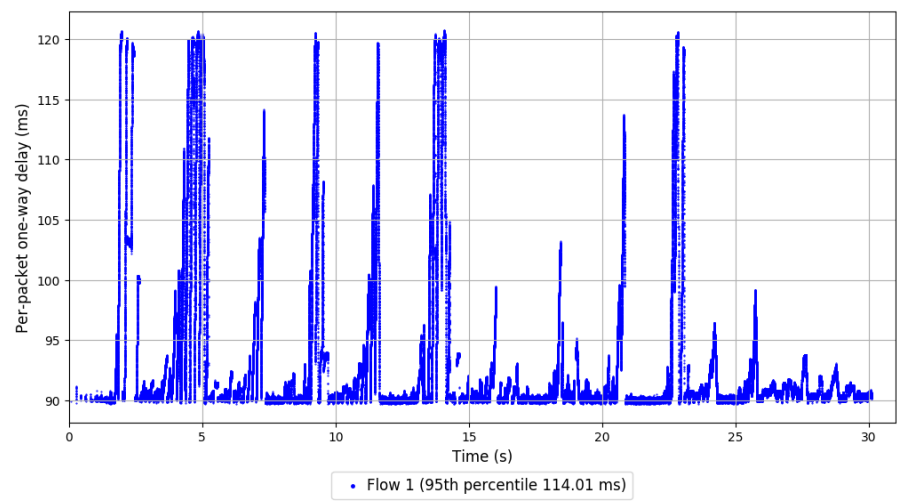
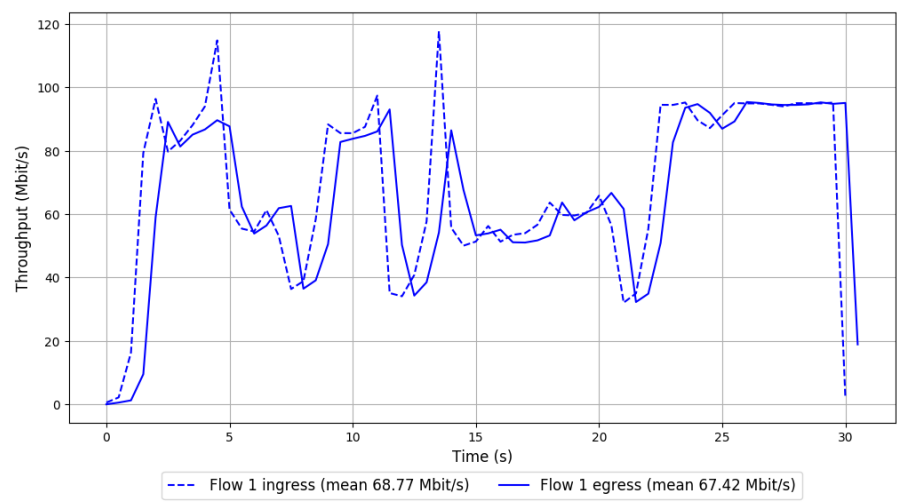


Run 8: Statistics of Copa

Start at: 2018-08-09 03:27:12
End at: 2018-08-09 03:27:42
Local clock offset: -8.109 ms
Remote clock offset: 4.633 ms

Below is generated by plot.py at 2018-08-09 04:23:47
Datalink statistics
-- Total of 1 flow:
Average throughput: 67.42 Mbit/s
95th percentile per-packet one-way delay: 114.006 ms
Loss rate: 1.97%
-- Flow 1:
Average throughput: 67.42 Mbit/s
95th percentile per-packet one-way delay: 114.006 ms
Loss rate: 1.97%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-08-09 03:47:04

End at: 2018-08-09 03:47:34

Local clock offset: -8.023 ms

Remote clock offset: 1.805 ms

Below is generated by plot.py at 2018-08-09 04:23:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.13 Mbit/s

95th percentile per-packet one-way delay: 111.891 ms

Loss rate: 3.70%

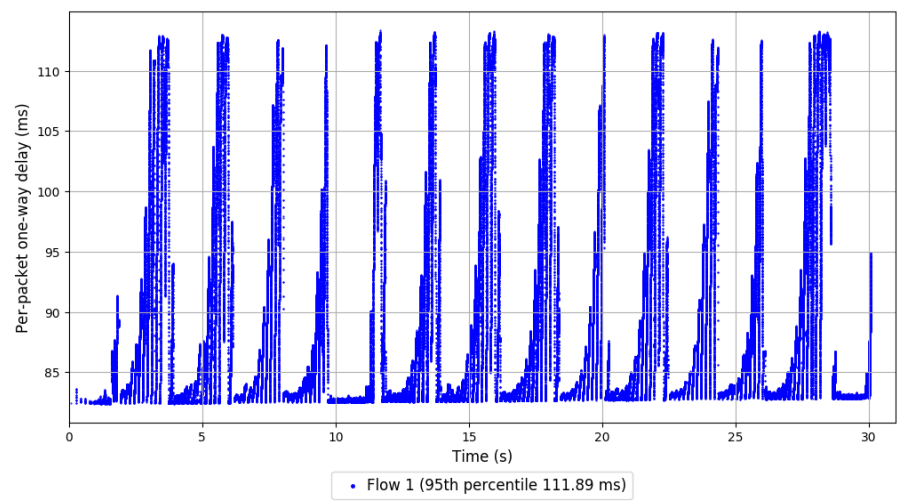
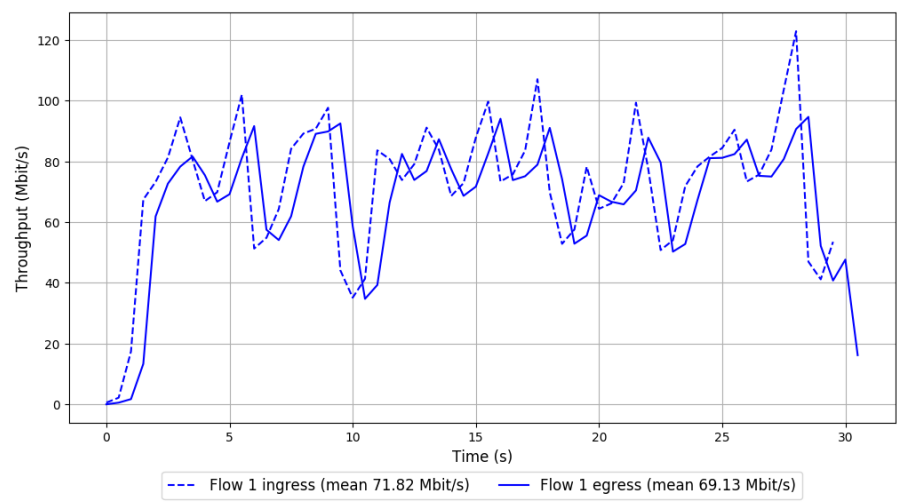
-- Flow 1:

Average throughput: 69.13 Mbit/s

95th percentile per-packet one-way delay: 111.891 ms

Loss rate: 3.70%

Run 9: Report of Copa — Data Link

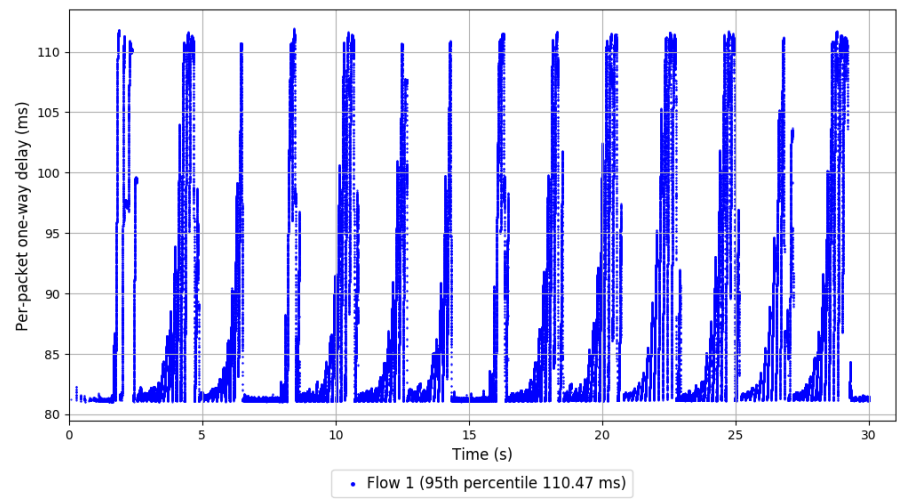
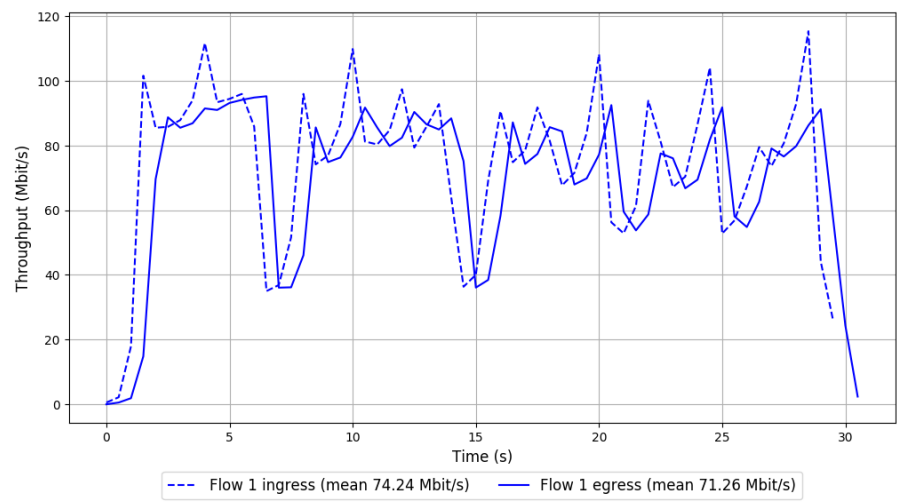


Run 10: Statistics of Copa

Start at: 2018-08-09 04:07:00
End at: 2018-08-09 04:07:30
Local clock offset: -1.211 ms
Remote clock offset: -1.859 ms

Below is generated by plot.py at 2018-08-09 04:23:54
Datalink statistics
-- Total of 1 flow:
Average throughput: 71.26 Mbit/s
95th percentile per-packet one-way delay: 110.468 ms
Loss rate: 4.01%
-- Flow 1:
Average throughput: 71.26 Mbit/s
95th percentile per-packet one-way delay: 110.468 ms
Loss rate: 4.01%

Run 10: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-08-09 01:07:17

End at: 2018-08-09 01:07:47

Local clock offset: -8.363 ms

Remote clock offset: 2.747 ms

Below is generated by plot.py at 2018-08-09 04:23:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 46.17 Mbit/s

95th percentile per-packet one-way delay: 93.339 ms

Loss rate: 0.59%

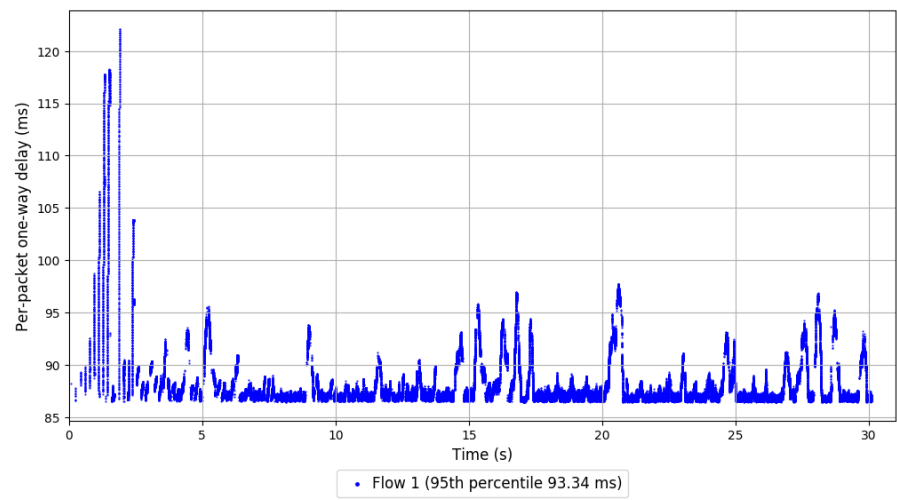
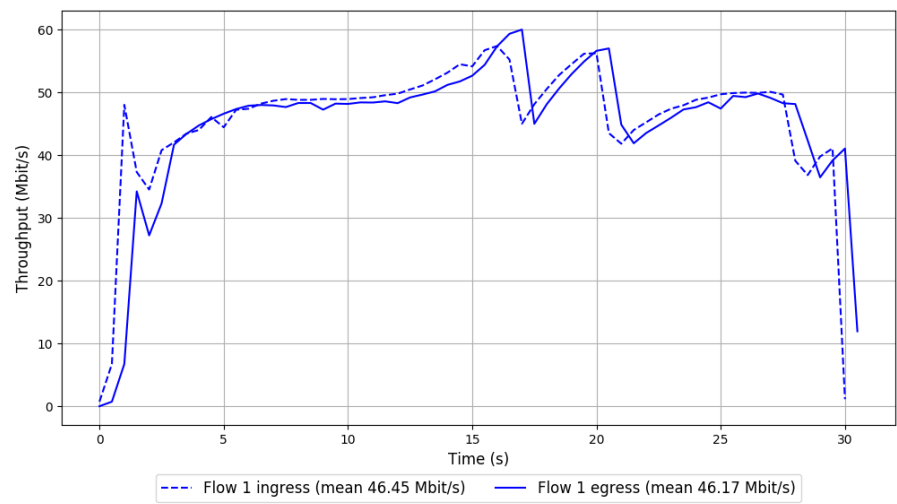
-- Flow 1:

Average throughput: 46.17 Mbit/s

95th percentile per-packet one-way delay: 93.339 ms

Loss rate: 0.59%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-08-09 01:27:05

End at: 2018-08-09 01:27:35

Local clock offset: -8.072 ms

Remote clock offset: 4.0 ms

Below is generated by plot.py at 2018-08-09 04:23:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 25.99 Mbit/s

95th percentile per-packet one-way delay: 93.903 ms

Loss rate: 0.87%

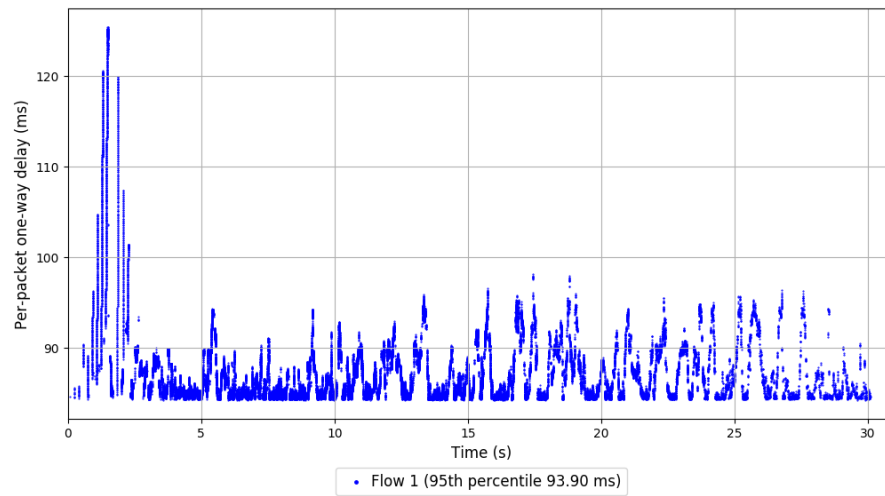
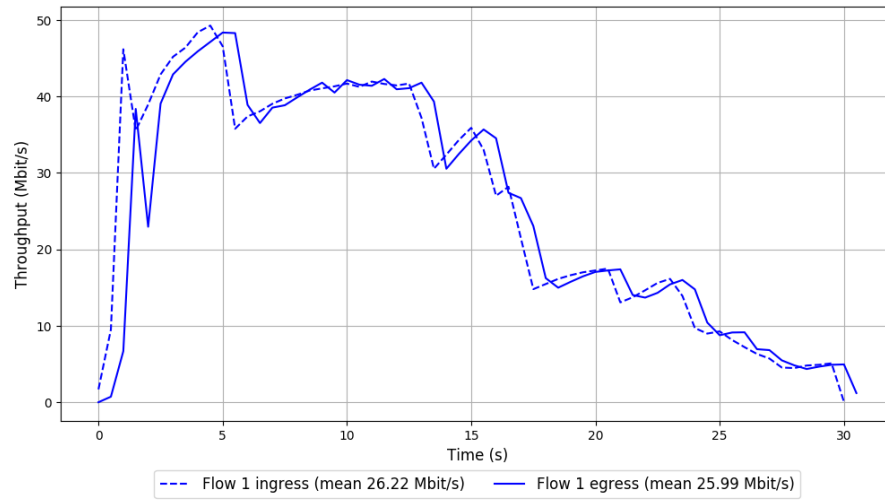
-- Flow 1:

Average throughput: 25.99 Mbit/s

95th percentile per-packet one-way delay: 93.903 ms

Loss rate: 0.87%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-08-09 01:46:53

End at: 2018-08-09 01:47:23

Local clock offset: -7.969 ms

Remote clock offset: 7.627 ms

Below is generated by plot.py at 2018-08-09 04:23:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 9.80 Mbit/s

95th percentile per-packet one-way delay: 100.058 ms

Loss rate: 0.20%

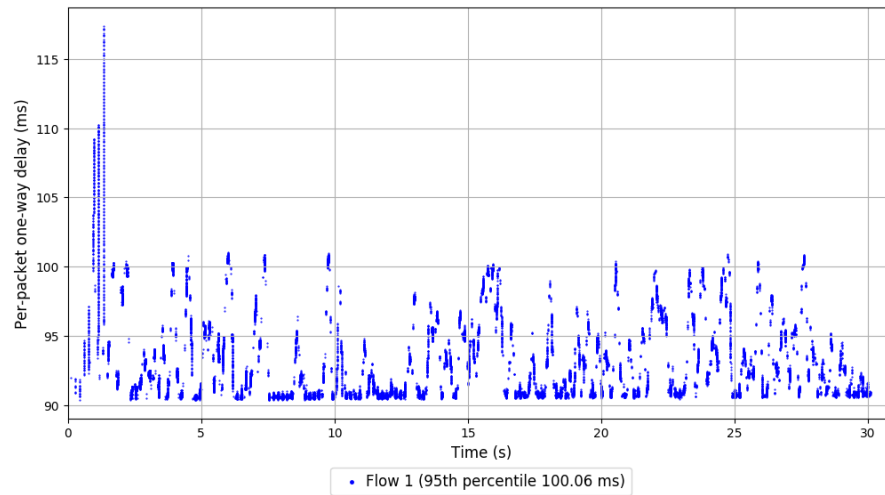
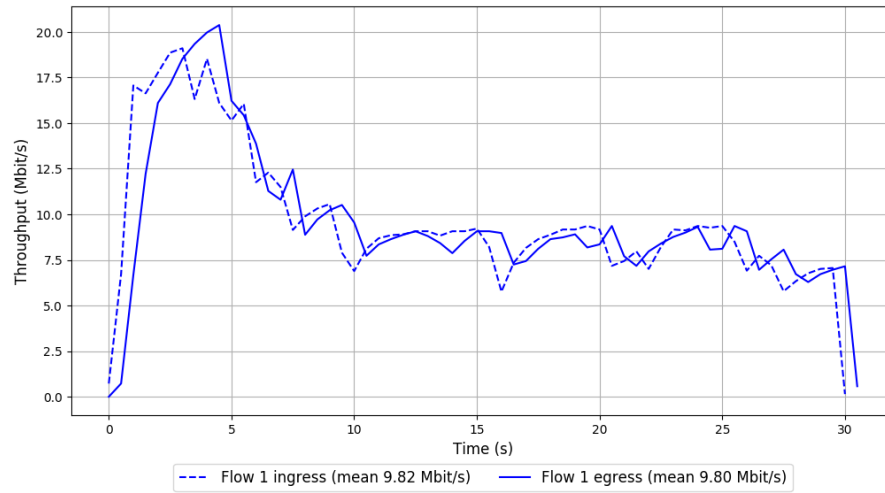
-- Flow 1:

Average throughput: 9.80 Mbit/s

95th percentile per-packet one-way delay: 100.058 ms

Loss rate: 0.20%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-08-09 02:06:32

End at: 2018-08-09 02:07:02

Local clock offset: -3.137 ms

Remote clock offset: 5.819 ms

Below is generated by plot.py at 2018-08-09 04:23:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 15.55 Mbit/s

95th percentile per-packet one-way delay: 97.483 ms

Loss rate: 1.75%

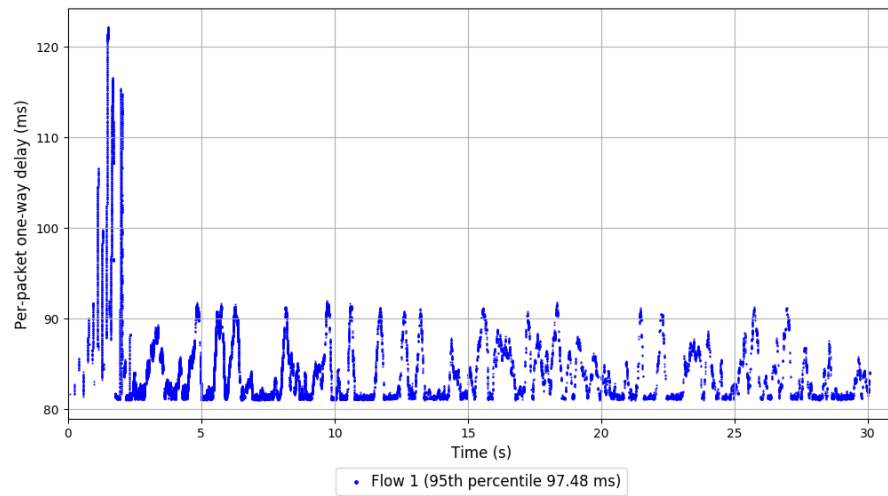
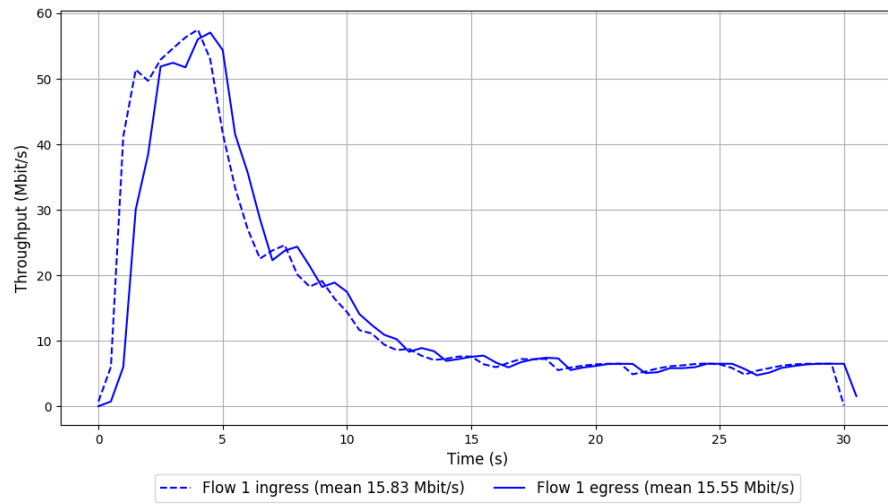
-- Flow 1:

Average throughput: 15.55 Mbit/s

95th percentile per-packet one-way delay: 97.483 ms

Loss rate: 1.75%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-08-09 02:26:12

End at: 2018-08-09 02:26:42

Local clock offset: -2.62 ms

Remote clock offset: 12.164 ms

Below is generated by plot.py at 2018-08-09 04:23:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 25.70 Mbit/s

95th percentile per-packet one-way delay: 93.870 ms

Loss rate: 0.98%

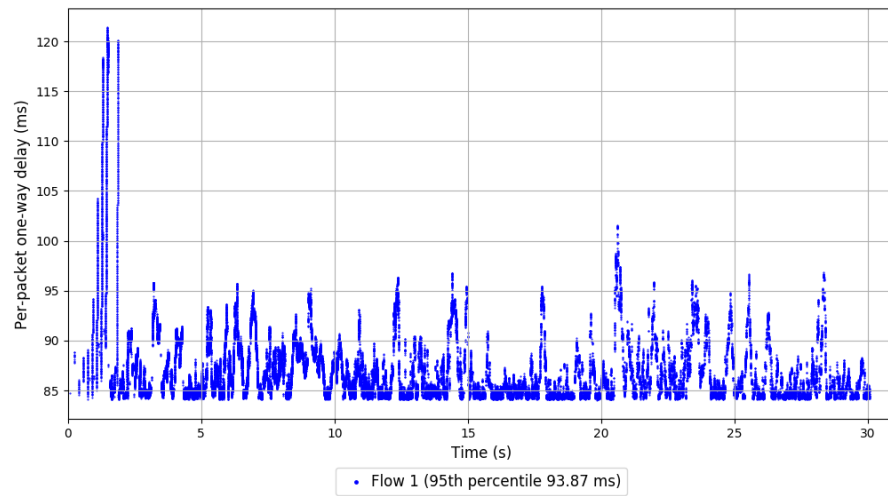
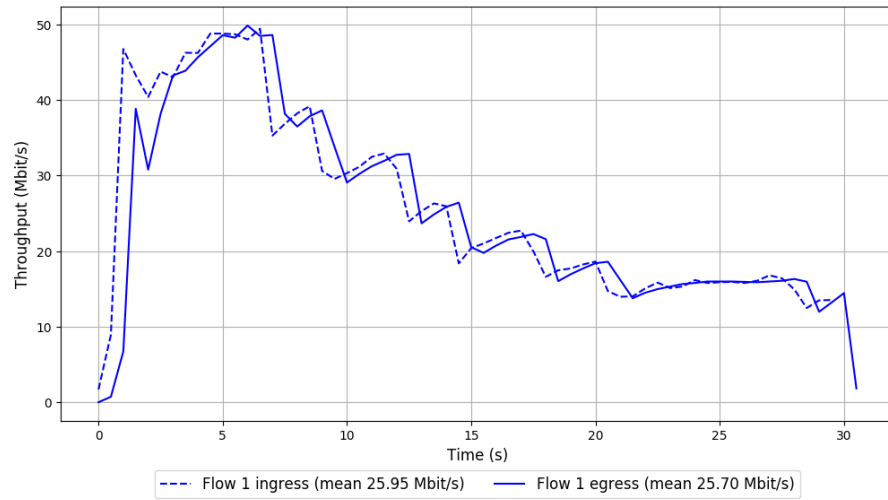
-- Flow 1:

Average throughput: 25.70 Mbit/s

95th percentile per-packet one-way delay: 93.870 ms

Loss rate: 0.98%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-08-09 02:46:02

End at: 2018-08-09 02:46:32

Local clock offset: -2.387 ms

Remote clock offset: 7.103 ms

Below is generated by plot.py at 2018-08-09 04:23:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.37 Mbit/s

95th percentile per-packet one-way delay: 94.192 ms

Loss rate: 0.21%

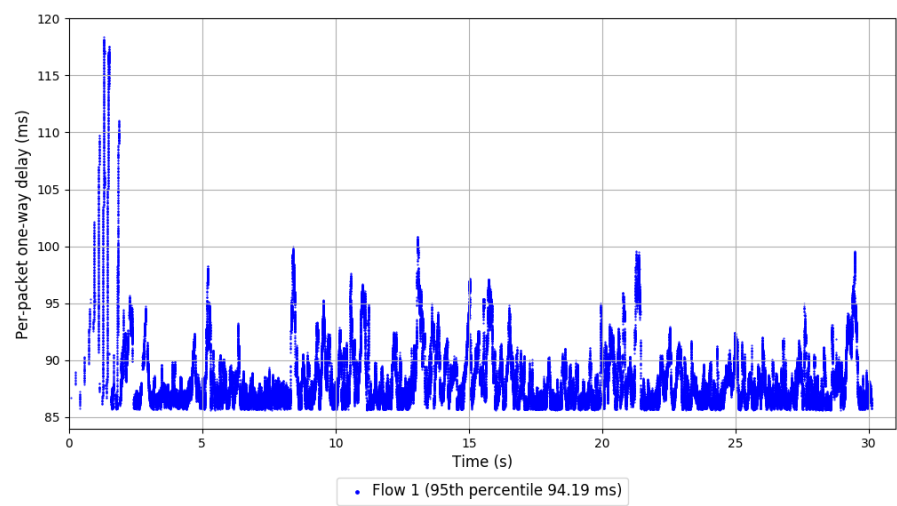
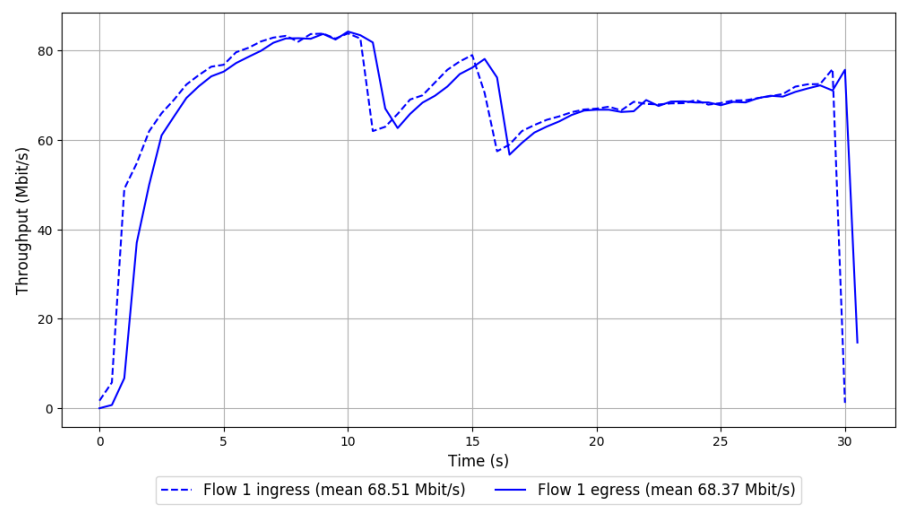
-- Flow 1:

Average throughput: 68.37 Mbit/s

95th percentile per-packet one-way delay: 94.192 ms

Loss rate: 0.21%

Run 6: Report of TCP Cubic — Data Link

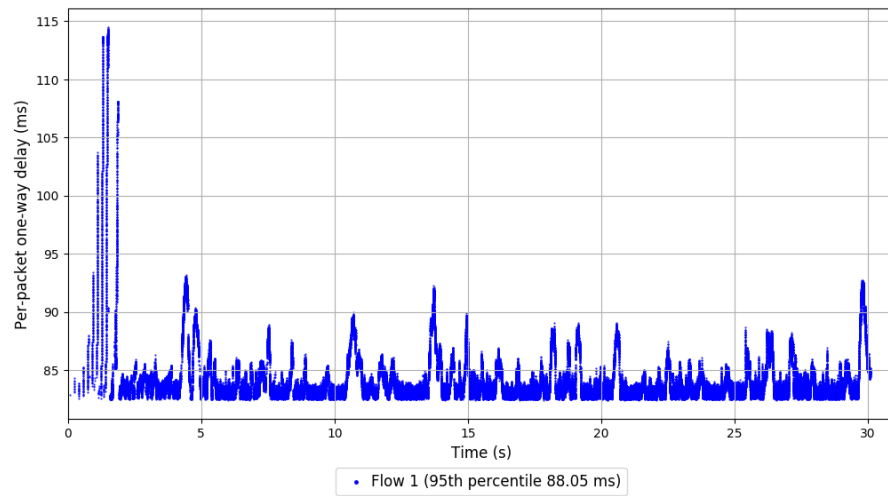
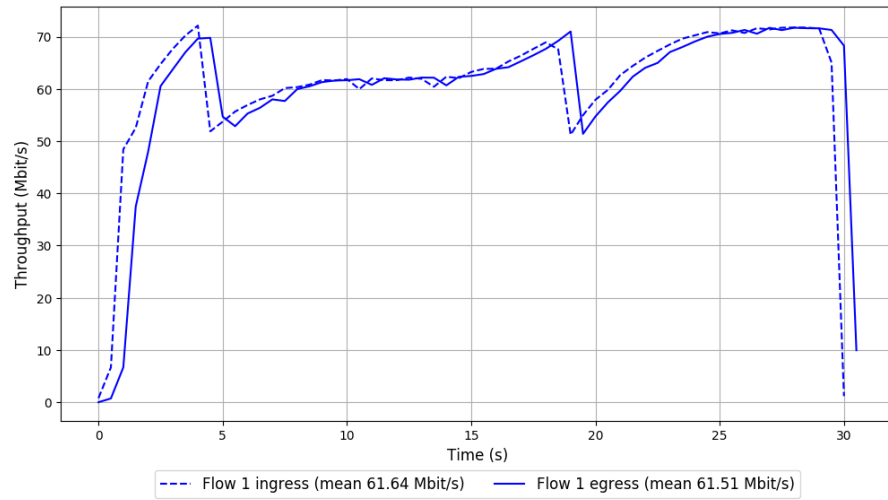


Run 7: Statistics of TCP Cubic

Start at: 2018-08-09 03:06:04
End at: 2018-08-09 03:06:34
Local clock offset: -7.082 ms
Remote clock offset: -0.442 ms

Below is generated by plot.py at 2018-08-09 04:23:54
Datalink statistics
-- Total of 1 flow:
Average throughput: 61.51 Mbit/s
95th percentile per-packet one-way delay: 88.049 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 61.51 Mbit/s
95th percentile per-packet one-way delay: 88.049 ms
Loss rate: 0.21%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-08-09 03:26:02

End at: 2018-08-09 03:26:32

Local clock offset: -8.058 ms

Remote clock offset: 4.636 ms

Below is generated by plot.py at 2018-08-09 04:24:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.30 Mbit/s

95th percentile per-packet one-way delay: 104.191 ms

Loss rate: 0.32%

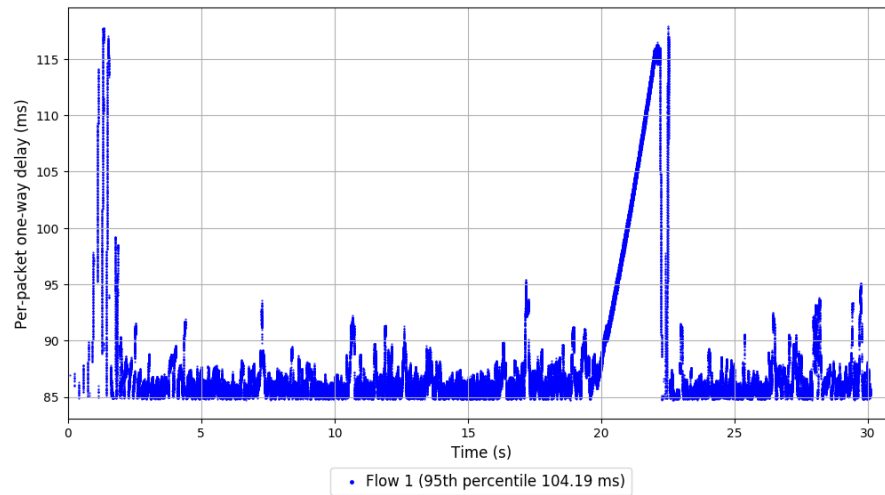
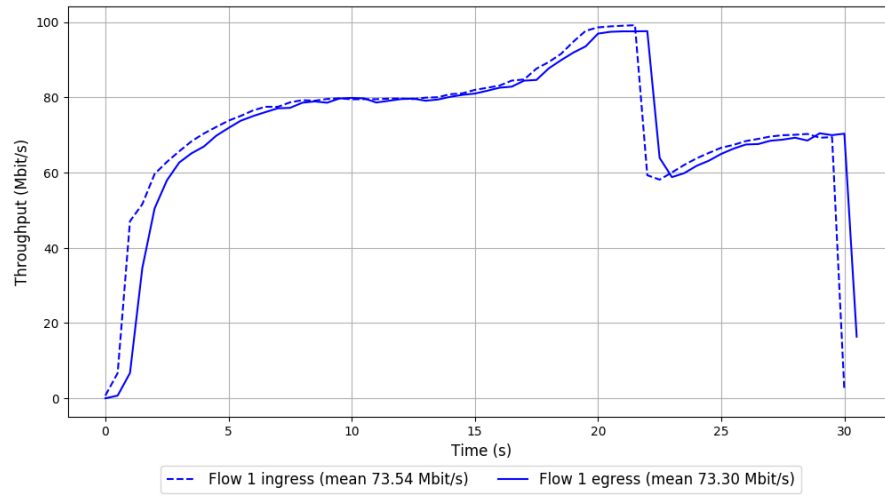
-- Flow 1:

Average throughput: 73.30 Mbit/s

95th percentile per-packet one-way delay: 104.191 ms

Loss rate: 0.32%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-08-09 03:45:53

End at: 2018-08-09 03:46:23

Local clock offset: -8.836 ms

Remote clock offset: 4.927 ms

Below is generated by plot.py at 2018-08-09 04:24:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.05 Mbit/s

95th percentile per-packet one-way delay: 108.660 ms

Loss rate: 0.30%

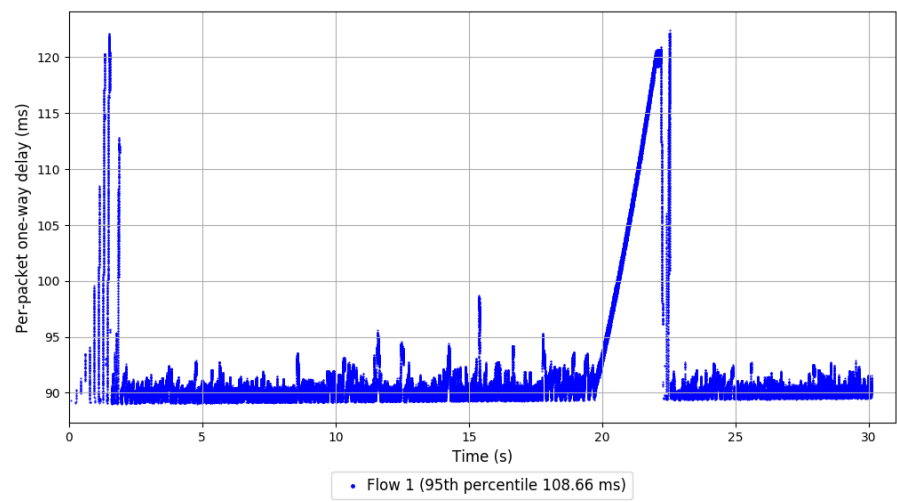
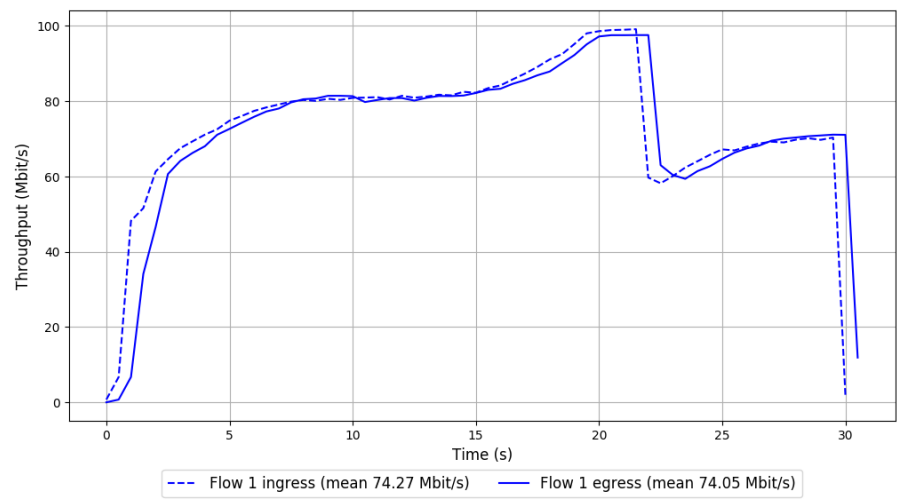
-- Flow 1:

Average throughput: 74.05 Mbit/s

95th percentile per-packet one-way delay: 108.660 ms

Loss rate: 0.30%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-08-09 04:05:50

End at: 2018-08-09 04:06:20

Local clock offset: -1.376 ms

Remote clock offset: 4.214 ms

Below is generated by plot.py at 2018-08-09 04:24:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 58.84 Mbit/s

95th percentile per-packet one-way delay: 106.143 ms

Loss rate: 0.65%

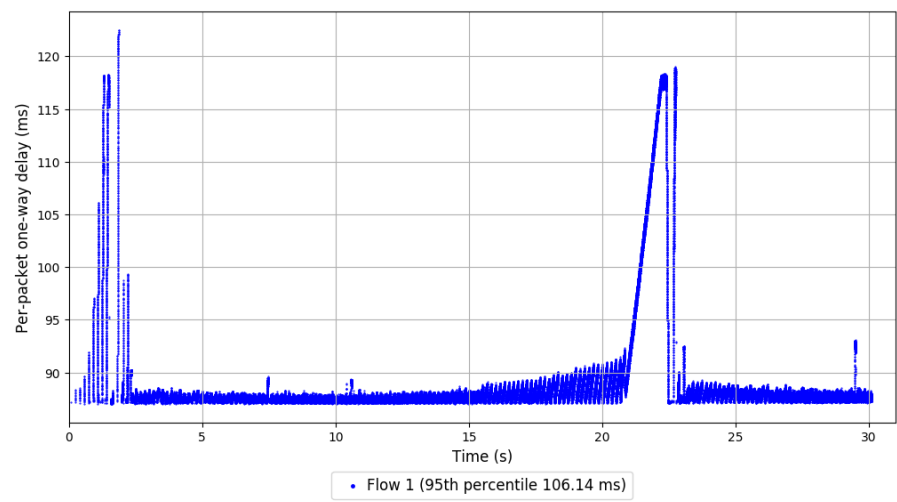
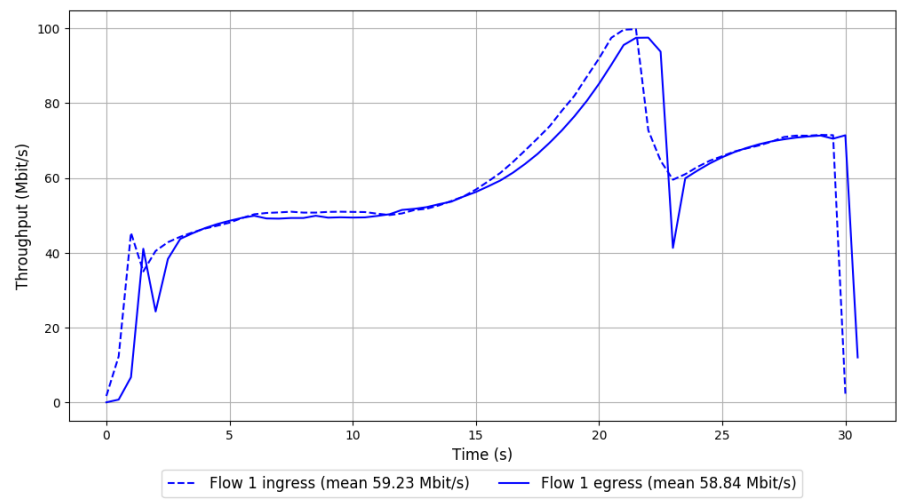
-- Flow 1:

Average throughput: 58.84 Mbit/s

95th percentile per-packet one-way delay: 106.143 ms

Loss rate: 0.65%

Run 10: Report of TCP Cubic — Data Link

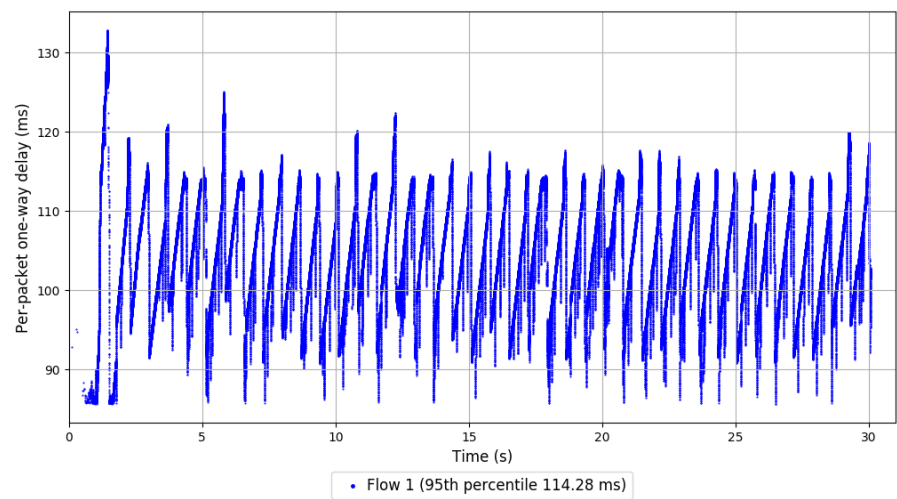
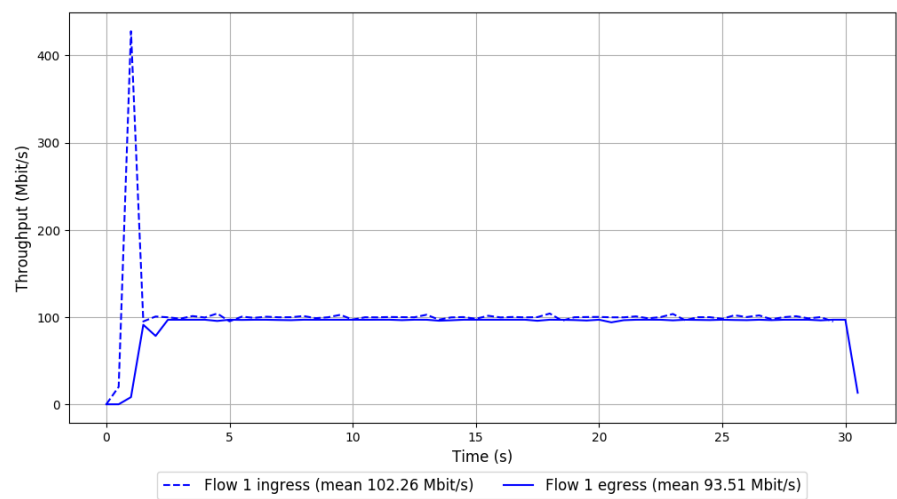


```
Run 1: Statistics of FillP

Start at: 2018-08-09 01:02:38
End at: 2018-08-09 01:03:08
Local clock offset: -7.842 ms
Remote clock offset: 0.093 ms

# Below is generated by plot.py at 2018-08-09 04:25:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.51 Mbit/s
95th percentile per-packet one-way delay: 114.284 ms
Loss rate: 8.54%
-- Flow 1:
Average throughput: 93.51 Mbit/s
95th percentile per-packet one-way delay: 114.284 ms
Loss rate: 8.54%
```

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-08-09 01:22:30

End at: 2018-08-09 01:23:00

Local clock offset: -8.283 ms

Remote clock offset: -0.93 ms

Below is generated by plot.py at 2018-08-09 04:25:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.75 Mbit/s

95th percentile per-packet one-way delay: 113.470 ms

Loss rate: 7.59%

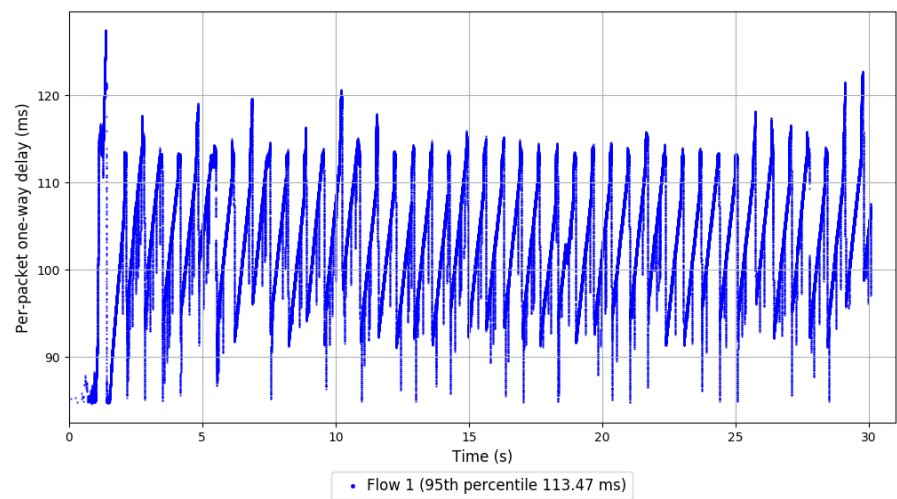
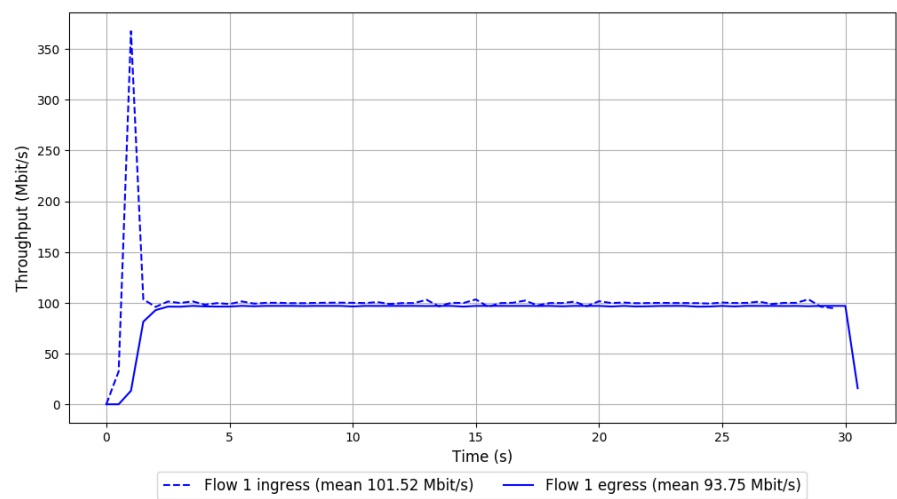
-- Flow 1:

Average throughput: 93.75 Mbit/s

95th percentile per-packet one-way delay: 113.470 ms

Loss rate: 7.59%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-08-09 01:42:13

End at: 2018-08-09 01:42:43

Local clock offset: -8.297 ms

Remote clock offset: 8.078 ms

Below is generated by plot.py at 2018-08-09 04:25:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.72 Mbit/s

95th percentile per-packet one-way delay: 114.108 ms

Loss rate: 7.72%

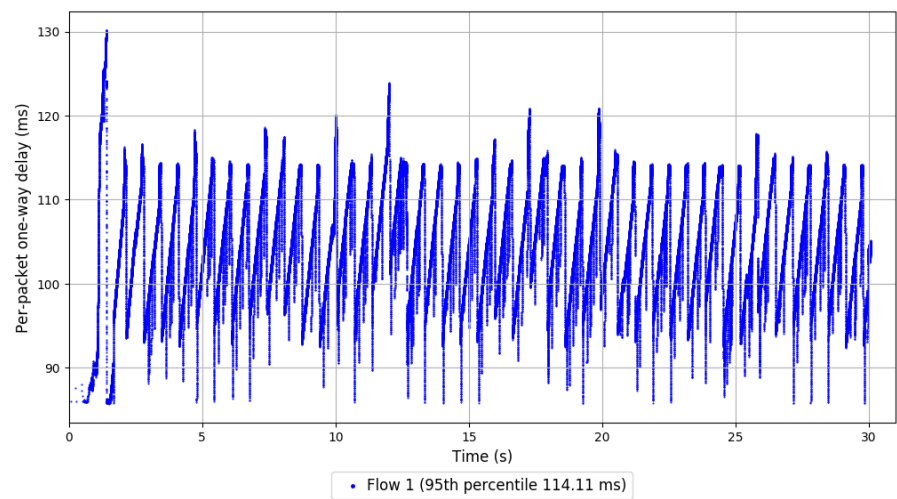
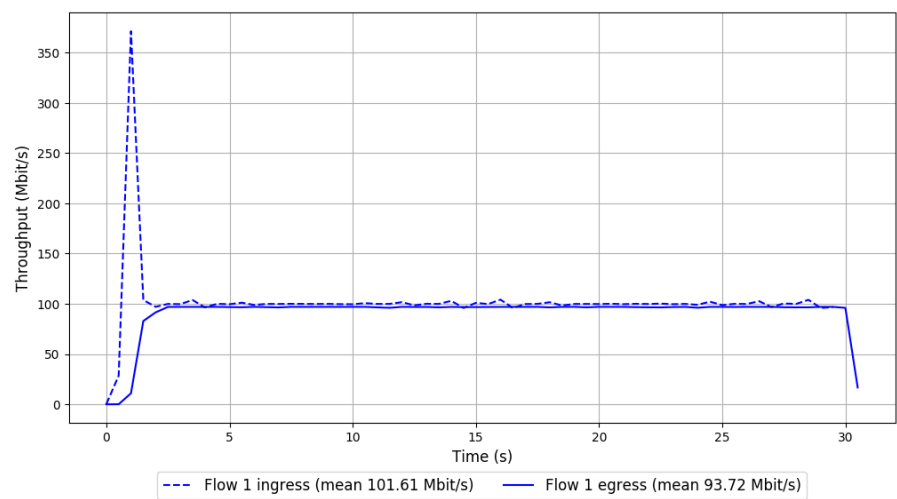
-- Flow 1:

Average throughput: 93.72 Mbit/s

95th percentile per-packet one-way delay: 114.108 ms

Loss rate: 7.72%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-08-09 02:01:57

End at: 2018-08-09 02:02:27

Local clock offset: -3.568 ms

Remote clock offset: 9.209 ms

Below is generated by plot.py at 2018-08-09 04:25:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.62 Mbit/s

95th percentile per-packet one-way delay: 119.929 ms

Loss rate: 7.50%

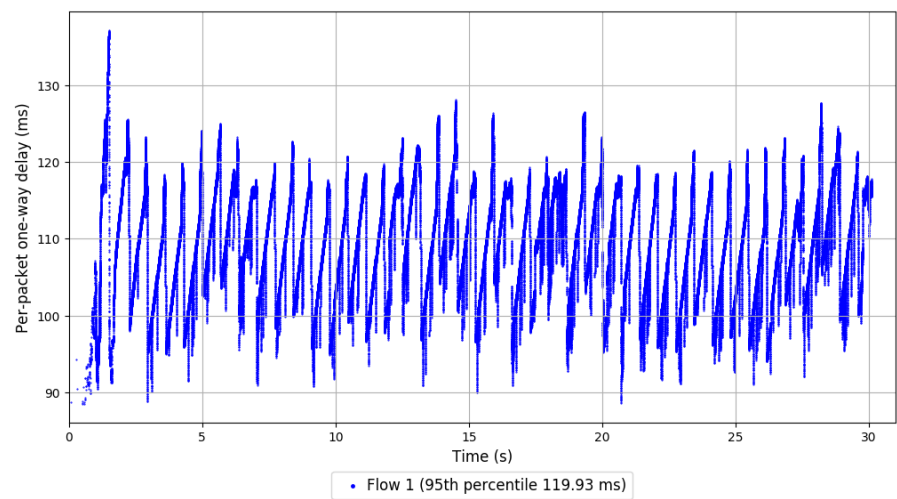
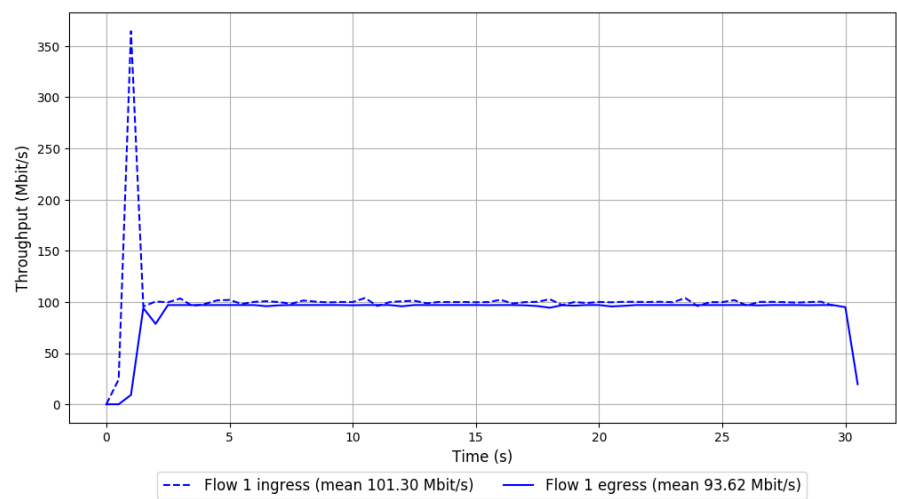
-- Flow 1:

Average throughput: 93.62 Mbit/s

95th percentile per-packet one-way delay: 119.929 ms

Loss rate: 7.50%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-08-09 02:21:37

End at: 2018-08-09 02:22:07

Local clock offset: -2.642 ms

Remote clock offset: 8.117 ms

Below is generated by plot.py at 2018-08-09 04:25:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.80 Mbit/s

95th percentile per-packet one-way delay: 110.415 ms

Loss rate: 7.36%

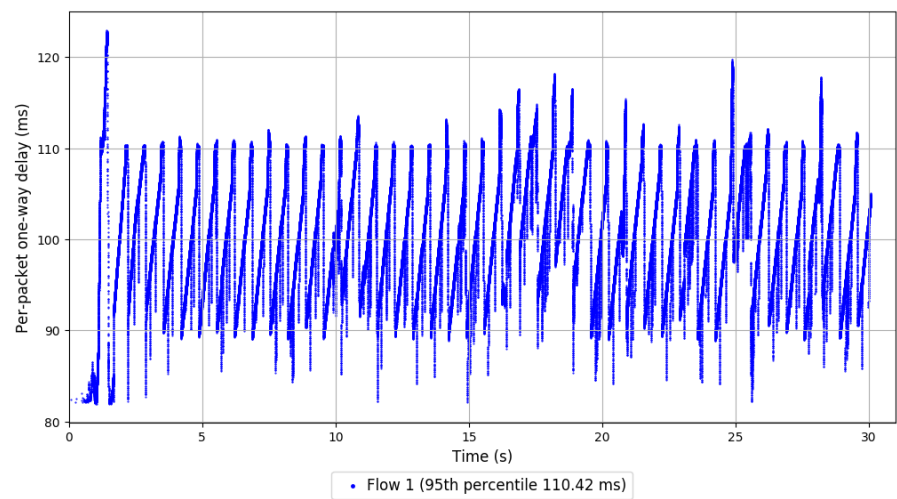
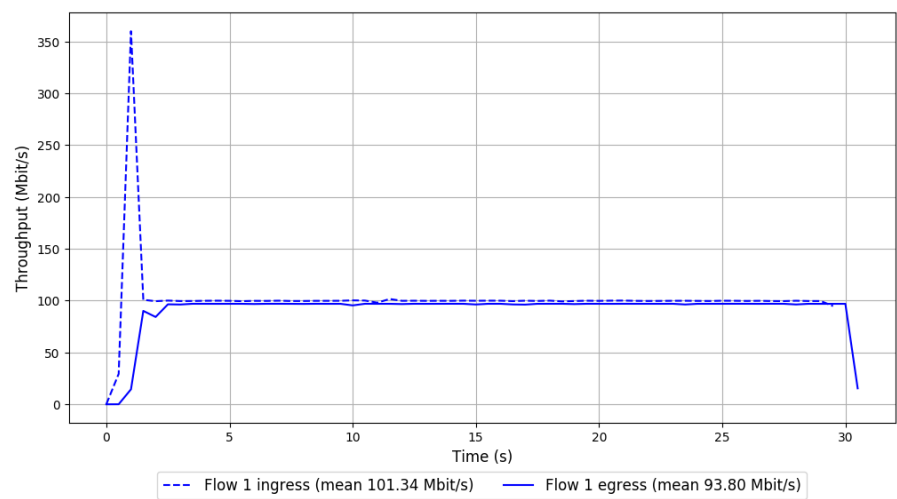
-- Flow 1:

Average throughput: 93.80 Mbit/s

95th percentile per-packet one-way delay: 110.415 ms

Loss rate: 7.36%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-08-09 02:41:24

End at: 2018-08-09 02:41:54

Local clock offset: -2.436 ms

Remote clock offset: 5.91 ms

Below is generated by plot.py at 2018-08-09 04:25:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.37 Mbit/s

95th percentile per-packet one-way delay: 112.878 ms

Loss rate: 7.75%

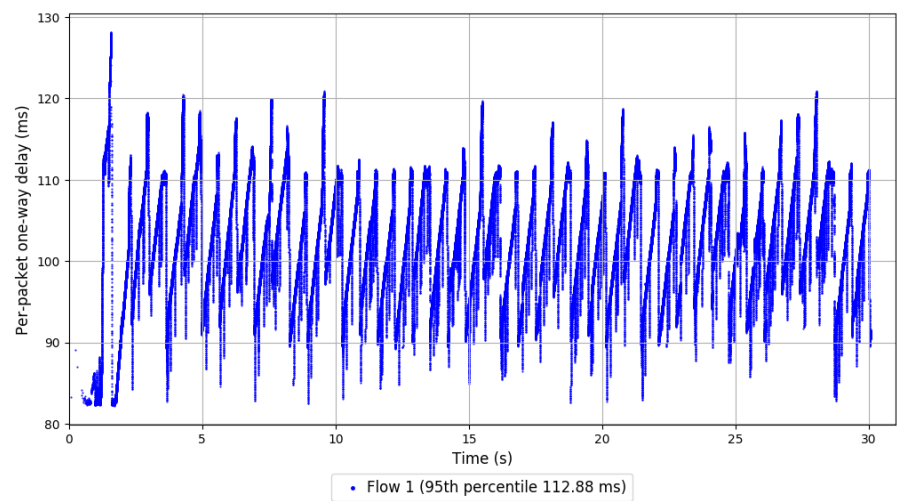
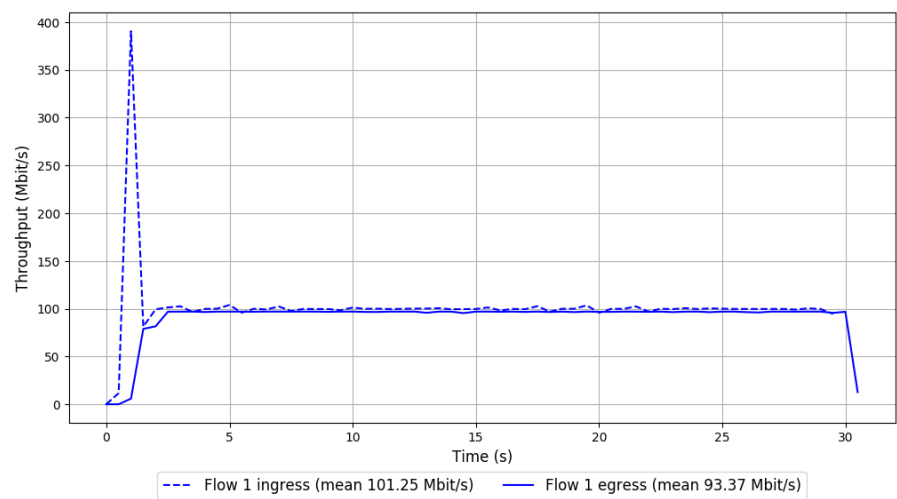
-- Flow 1:

Average throughput: 93.37 Mbit/s

95th percentile per-packet one-way delay: 112.878 ms

Loss rate: 7.75%

Run 6: Report of FillP — Data Link

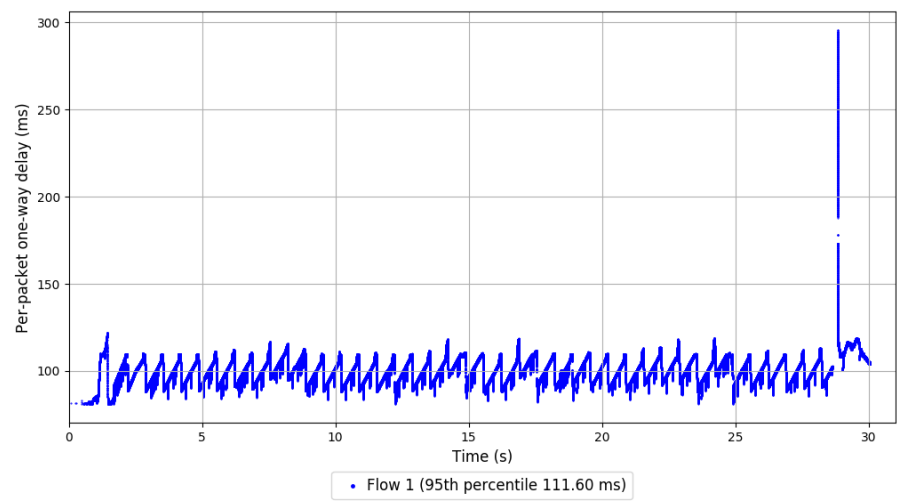
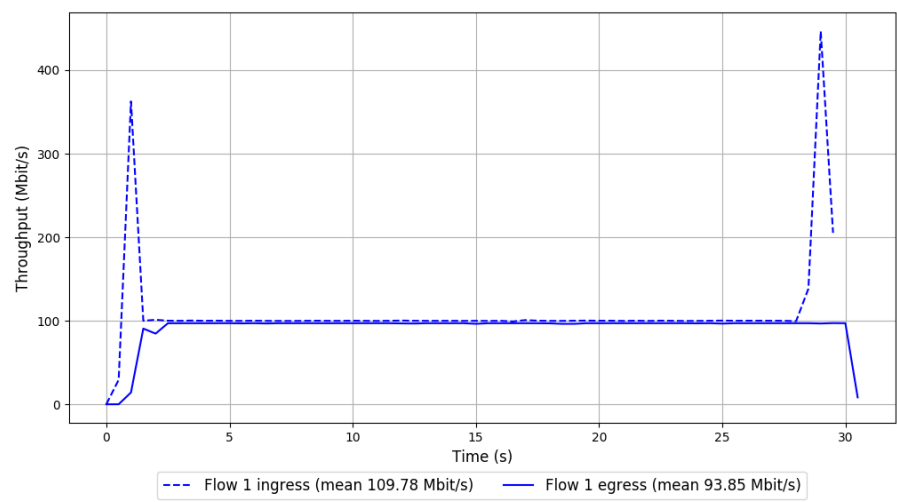


Run 7: Statistics of FillP

Start at: 2018-08-09 03:01:22
End at: 2018-08-09 03:01:52
Local clock offset: -6.621 ms
Remote clock offset: -1.025 ms

Below is generated by plot.py at 2018-08-09 04:25:39
Datalink statistics
-- Total of 1 flow:
Average throughput: 93.85 Mbit/s
95th percentile per-packet one-way delay: 111.602 ms
Loss rate: 14.44%
-- Flow 1:
Average throughput: 93.85 Mbit/s
95th percentile per-packet one-way delay: 111.602 ms
Loss rate: 14.44%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-08-09 03:21:21

End at: 2018-08-09 03:21:51

Local clock offset: -7.903 ms

Remote clock offset: 6.534 ms

Below is generated by plot.py at 2018-08-09 04:25:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.74 Mbit/s

95th percentile per-packet one-way delay: 114.799 ms

Loss rate: 7.61%

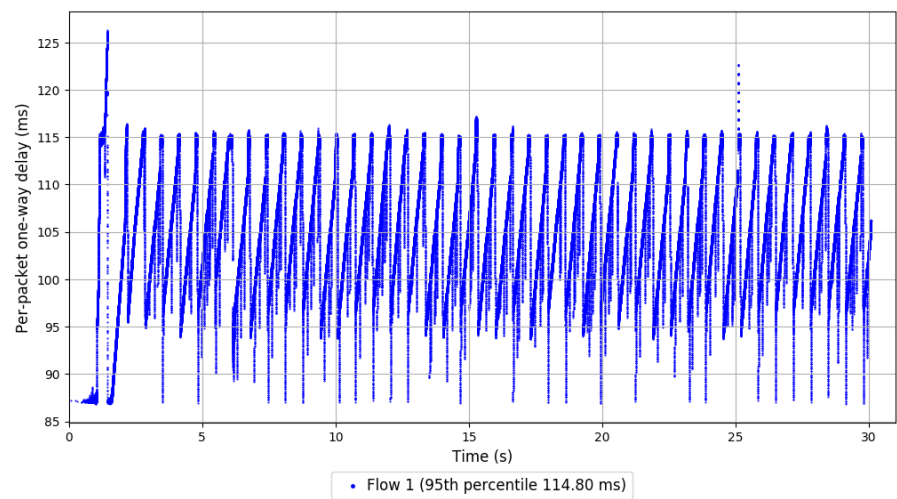
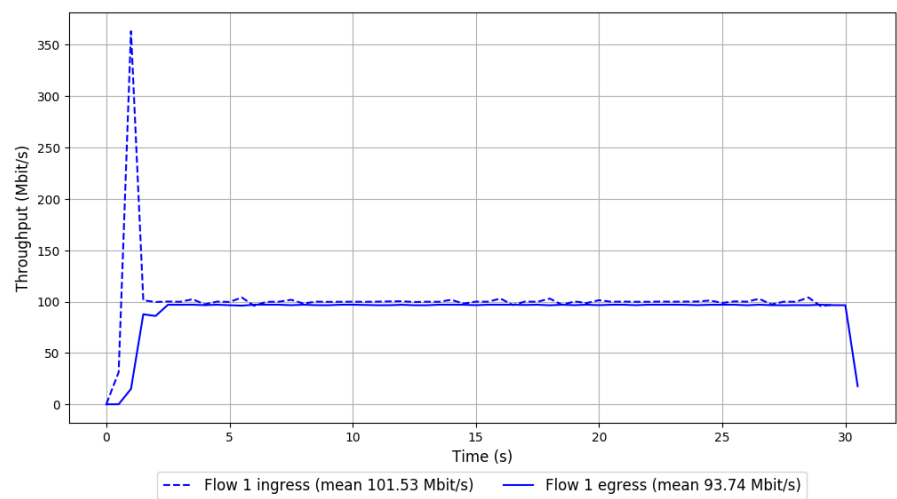
-- Flow 1:

Average throughput: 93.74 Mbit/s

95th percentile per-packet one-way delay: 114.799 ms

Loss rate: 7.61%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-08-09 03:41:13

End at: 2018-08-09 03:41:43

Local clock offset: -8.709 ms

Remote clock offset: 1.222 ms

Below is generated by plot.py at 2018-08-09 04:26:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.01 Mbit/s

95th percentile per-packet one-way delay: 107.005 ms

Loss rate: 7.33%

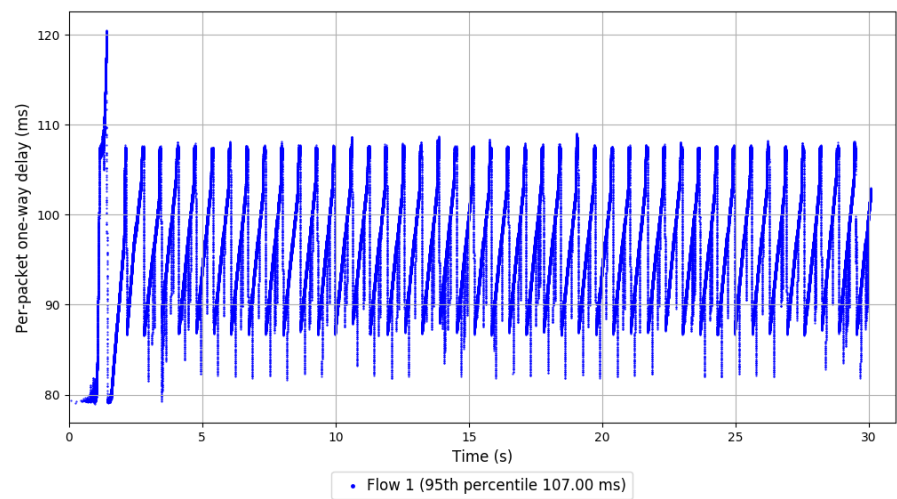
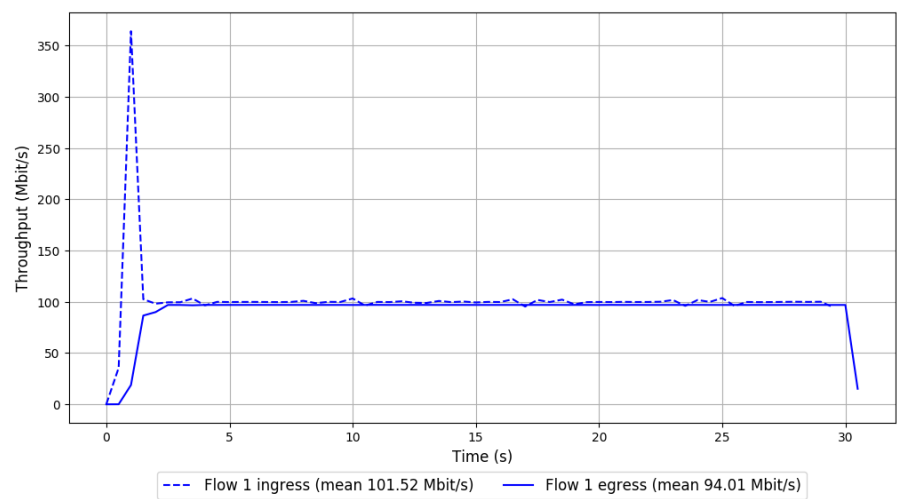
-- Flow 1:

Average throughput: 94.01 Mbit/s

95th percentile per-packet one-way delay: 107.005 ms

Loss rate: 7.33%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-08-09 04:01:09

End at: 2018-08-09 04:01:39

Local clock offset: -2.229 ms

Remote clock offset: -1.39 ms

Below is generated by plot.py at 2018-08-09 04:26:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.96 Mbit/s

95th percentile per-packet one-way delay: 109.015 ms

Loss rate: 7.02%

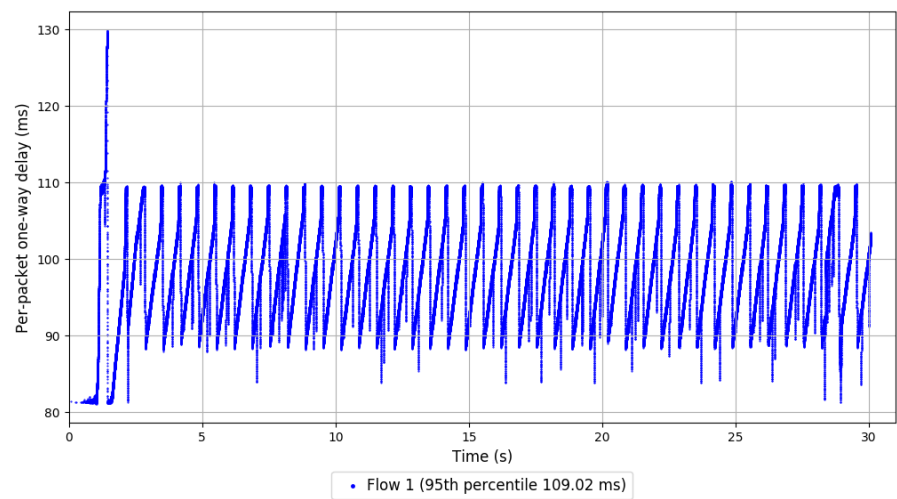
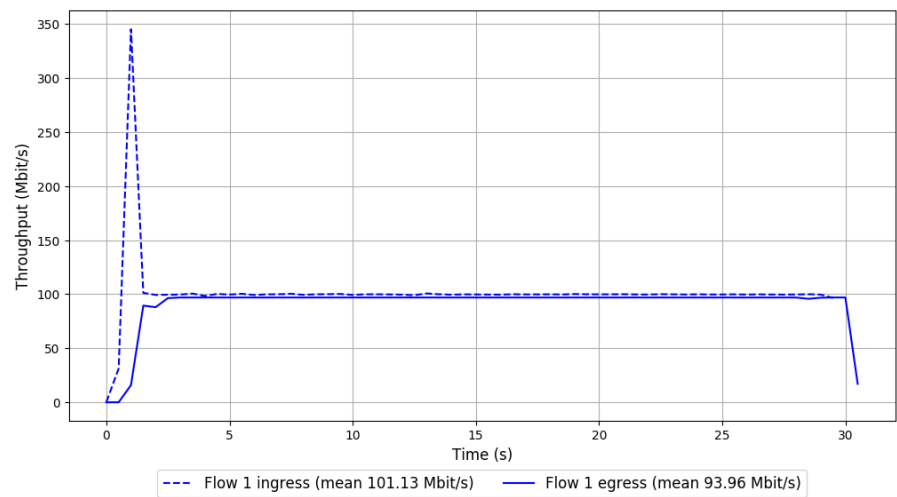
-- Flow 1:

Average throughput: 93.96 Mbit/s

95th percentile per-packet one-way delay: 109.015 ms

Loss rate: 7.02%

Run 10: Report of FillP — Data Link

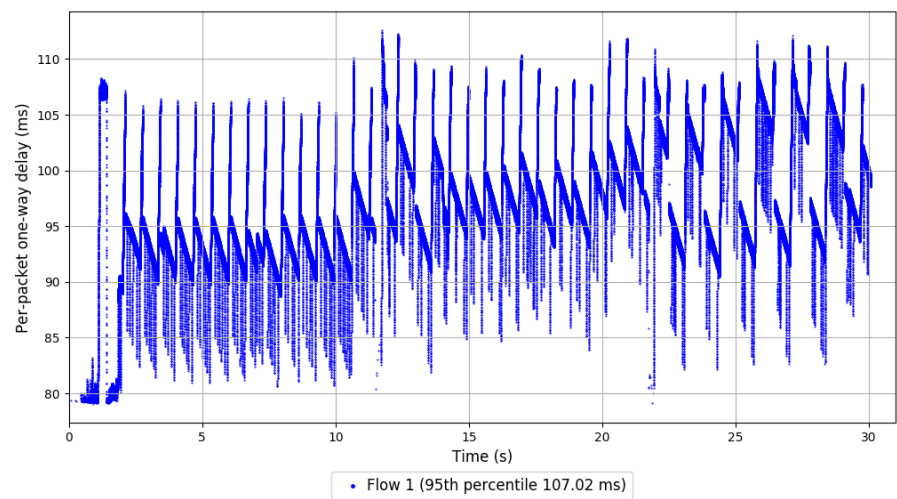
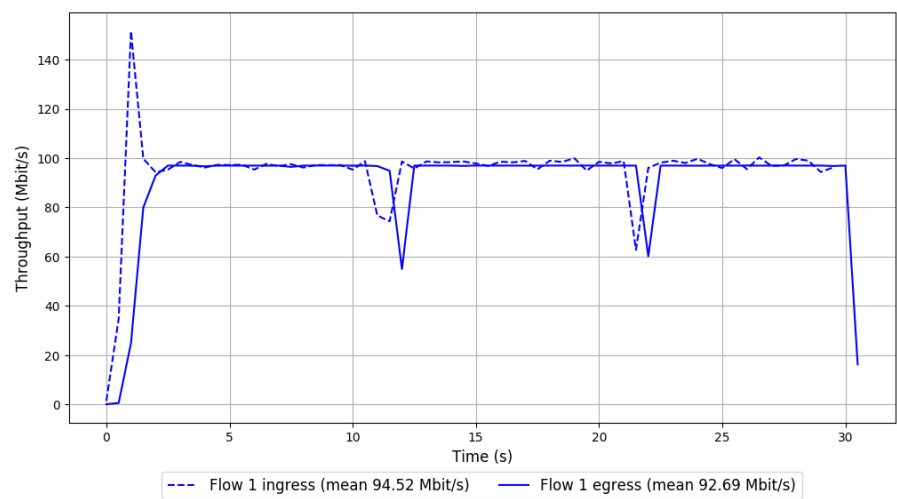


Run 1: Statistics of FillP-Sheep

Start at: 2018-08-09 01:14:30
End at: 2018-08-09 01:15:00
Local clock offset: -9.201 ms
Remote clock offset: -0.825 ms

Below is generated by plot.py at 2018-08-09 04:26:33
Datalink statistics
-- Total of 1 flow:
Average throughput: 92.69 Mbit/s
95th percentile per-packet one-way delay: 107.021 ms
Loss rate: 1.86%
-- Flow 1:
Average throughput: 92.69 Mbit/s
95th percentile per-packet one-way delay: 107.021 ms
Loss rate: 1.86%

Run 1: Report of FillP-Sheep — Data Link

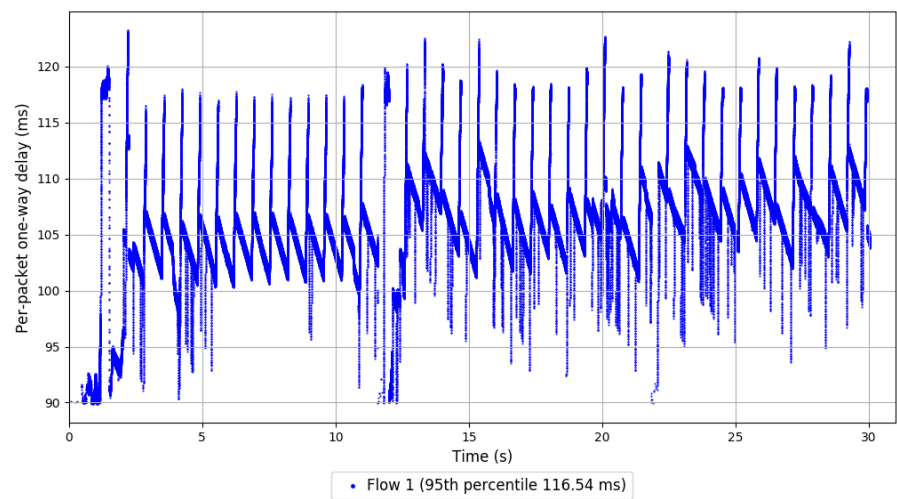
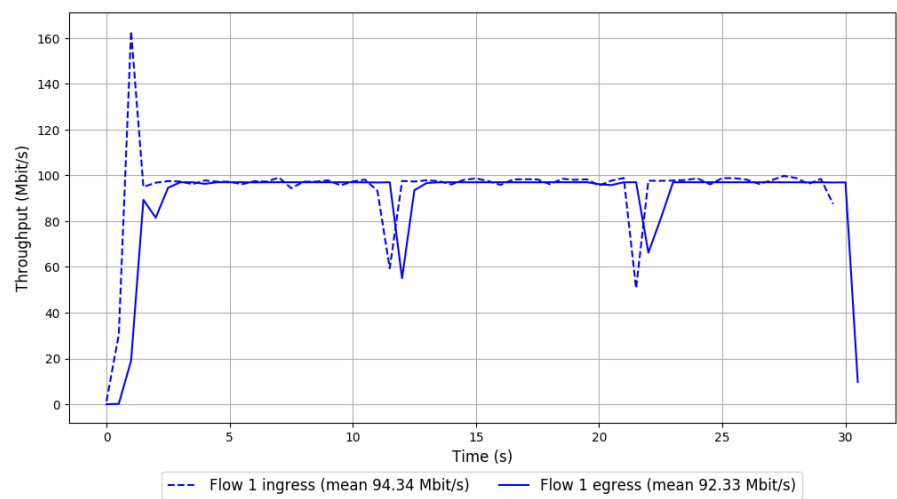


Run 2: Statistics of FillP-Sheep

Start at: 2018-08-09 01:34:08
End at: 2018-08-09 01:34:38
Local clock offset: -8.001 ms
Remote clock offset: 5.095 ms

Below is generated by plot.py at 2018-08-09 04:26:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 92.33 Mbit/s
95th percentile per-packet one-way delay: 116.539 ms
Loss rate: 2.08%
-- Flow 1:
Average throughput: 92.33 Mbit/s
95th percentile per-packet one-way delay: 116.539 ms
Loss rate: 2.08%

Run 2: Report of FillP-Sheep — Data Link



Run 3: Statistics of FillP-Sheep

Start at: 2018-08-09 01:53:57

End at: 2018-08-09 01:54:27

Local clock offset: -5.019 ms

Remote clock offset: 9.534 ms

Below is generated by plot.py at 2018-08-09 04:26:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.56 Mbit/s

95th percentile per-packet one-way delay: 112.262 ms

Loss rate: 1.54%

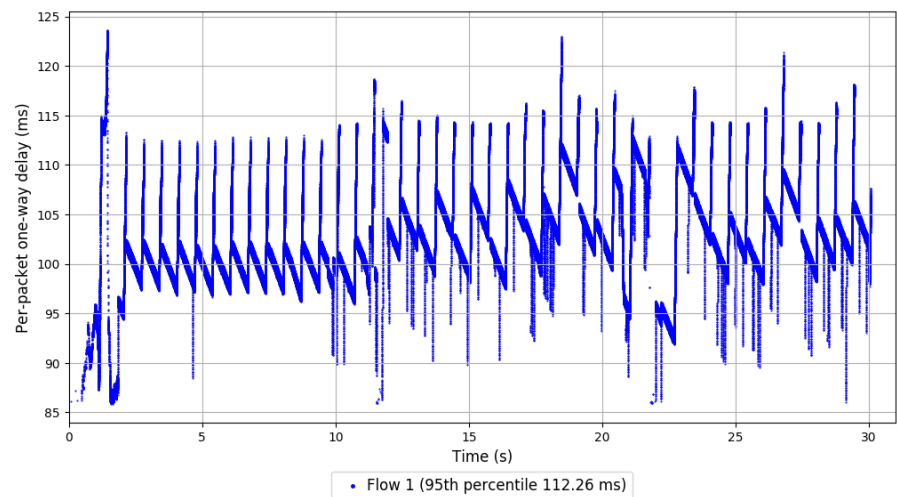
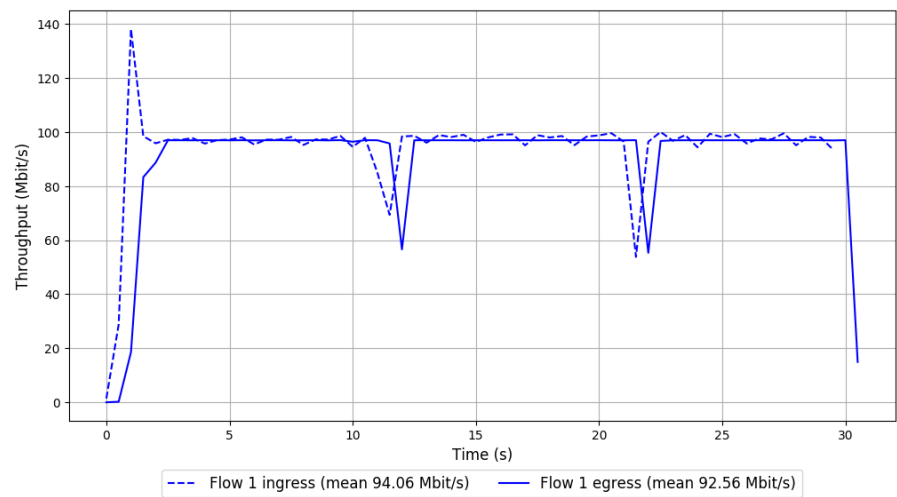
-- Flow 1:

Average throughput: 92.56 Mbit/s

95th percentile per-packet one-way delay: 112.262 ms

Loss rate: 1.54%

Run 3: Report of FillP-Sheep — Data Link

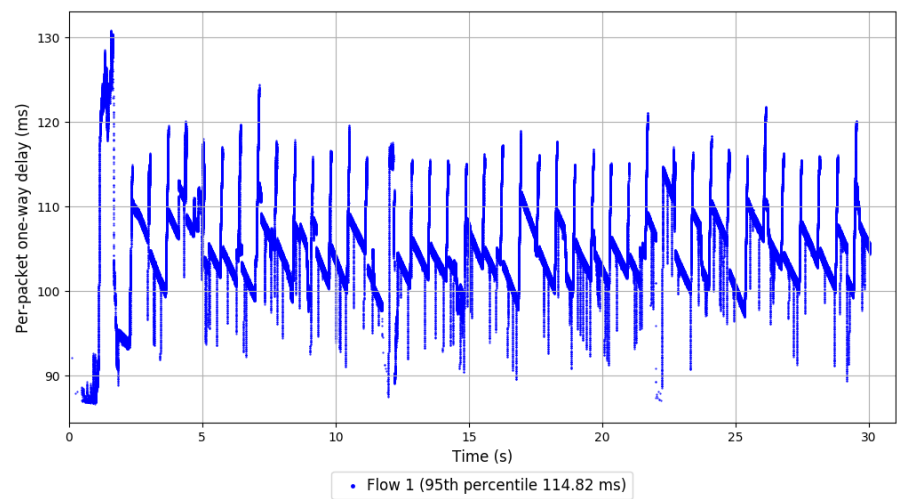
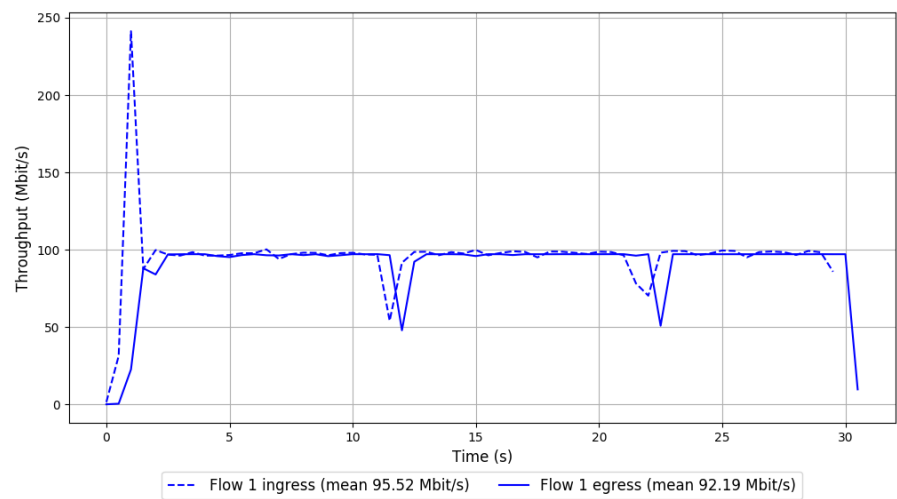


Run 4: Statistics of FillP-Sheep

Start at: 2018-08-09 02:13:34
End at: 2018-08-09 02:14:04
Local clock offset: -2.686 ms
Remote clock offset: 12.201 ms

Below is generated by plot.py at 2018-08-09 04:26:51
Datalink statistics
-- Total of 1 flow:
Average throughput: 92.19 Mbit/s
95th percentile per-packet one-way delay: 114.824 ms
Loss rate: 3.44%
-- Flow 1:
Average throughput: 92.19 Mbit/s
95th percentile per-packet one-way delay: 114.824 ms
Loss rate: 3.44%

Run 4: Report of FillP-Sheep — Data Link

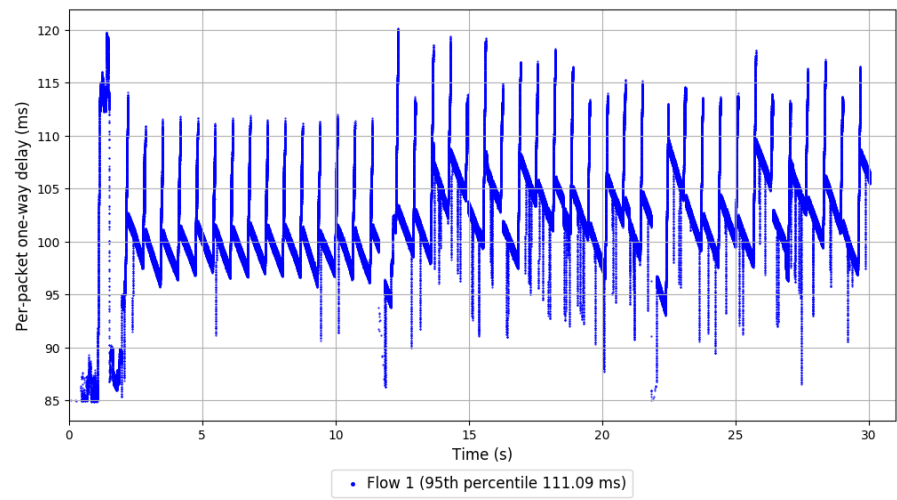
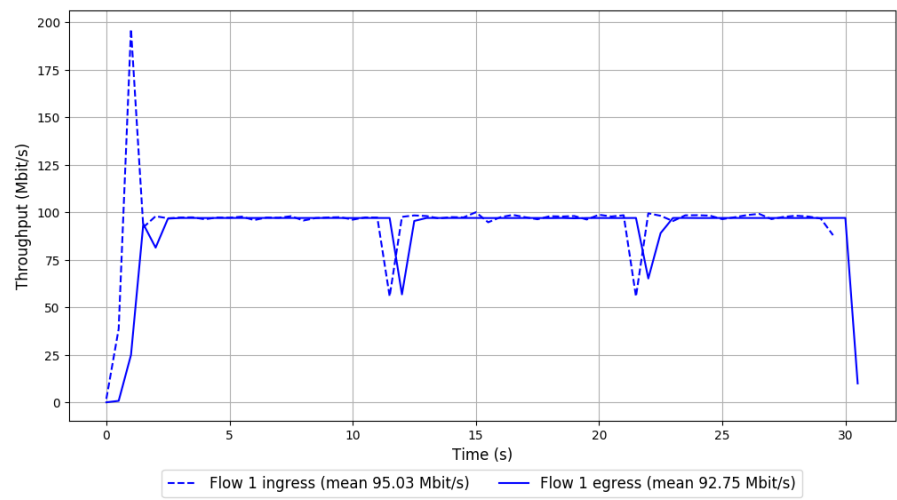


Run 5: Statistics of FillP-Sheep

Start at: 2018-08-09 02:33:20
End at: 2018-08-09 02:33:50
Local clock offset: -2.627 ms
Remote clock offset: 12.729 ms

Below is generated by plot.py at 2018-08-09 04:27:00
Datalink statistics
-- Total of 1 flow:
Average throughput: 92.75 Mbit/s
95th percentile per-packet one-way delay: 111.089 ms
Loss rate: 2.33%
-- Flow 1:
Average throughput: 92.75 Mbit/s
95th percentile per-packet one-way delay: 111.089 ms
Loss rate: 2.33%

Run 5: Report of FillP-Sheep — Data Link



Run 6: Statistics of FillP-Sheep

Start at: 2018-08-09 02:53:13

End at: 2018-08-09 02:53:43

Local clock offset: -5.111 ms

Remote clock offset: 4.058 ms

Below is generated by plot.py at 2018-08-09 04:27:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.58 Mbit/s

95th percentile per-packet one-way delay: 112.279 ms

Loss rate: 2.05%

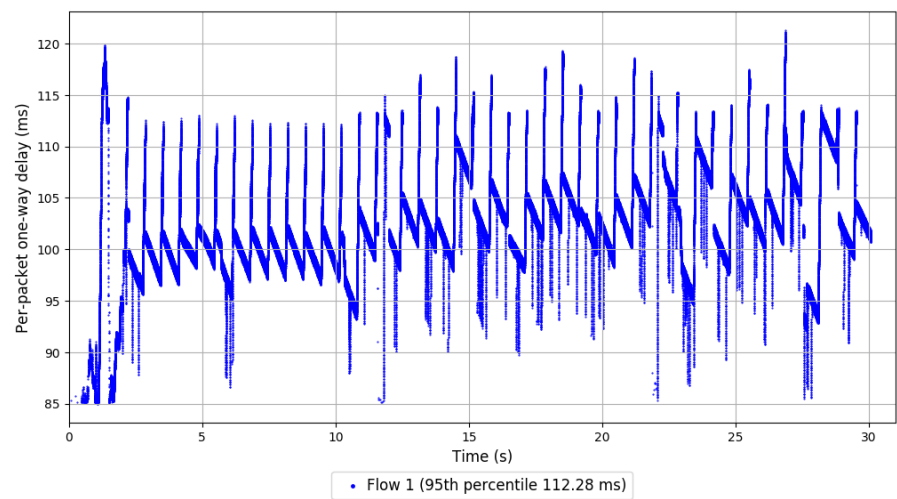
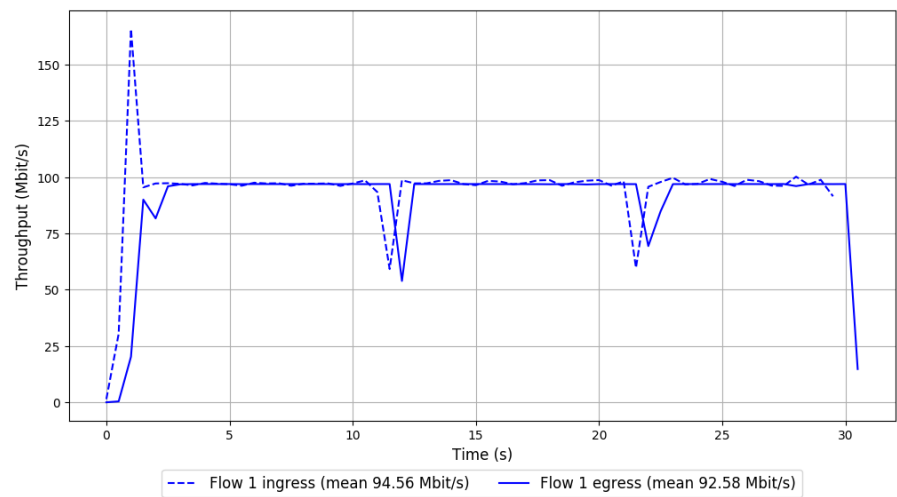
-- Flow 1:

Average throughput: 92.58 Mbit/s

95th percentile per-packet one-way delay: 112.279 ms

Loss rate: 2.05%

Run 6: Report of FillP-Sheep — Data Link

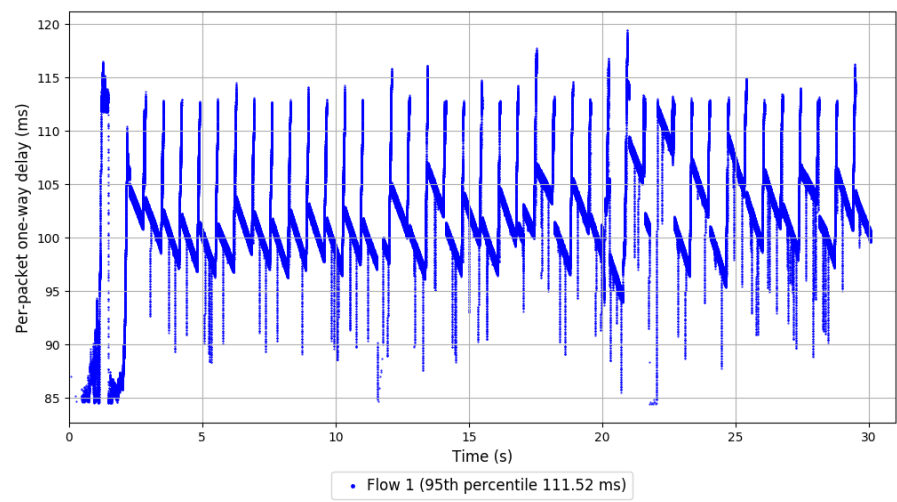
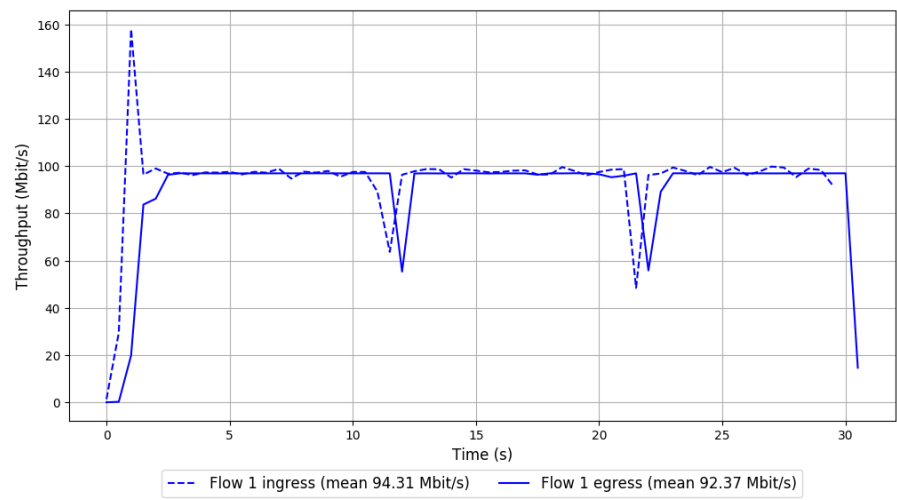


Run 7: Statistics of FillP-Sheep

Start at: 2018-08-09 03:13:15
End at: 2018-08-09 03:13:45
Local clock offset: -7.605 ms
Remote clock offset: -1.114 ms

Below is generated by plot.py at 2018-08-09 04:27:55
Datalink statistics
-- Total of 1 flow:
Average throughput: 92.37 Mbit/s
95th percentile per-packet one-way delay: 111.517 ms
Loss rate: 2.02%
-- Flow 1:
Average throughput: 92.37 Mbit/s
95th percentile per-packet one-way delay: 111.517 ms
Loss rate: 2.02%

Run 7: Report of FillP-Sheep — Data Link



Run 8: Statistics of FillP-Sheep

Start at: 2018-08-09 03:33:09

End at: 2018-08-09 03:33:39

Local clock offset: -8.322 ms

Remote clock offset: 7.029 ms

Below is generated by plot.py at 2018-08-09 04:27:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.69 Mbit/s

95th percentile per-packet one-way delay: 111.073 ms

Loss rate: 2.04%

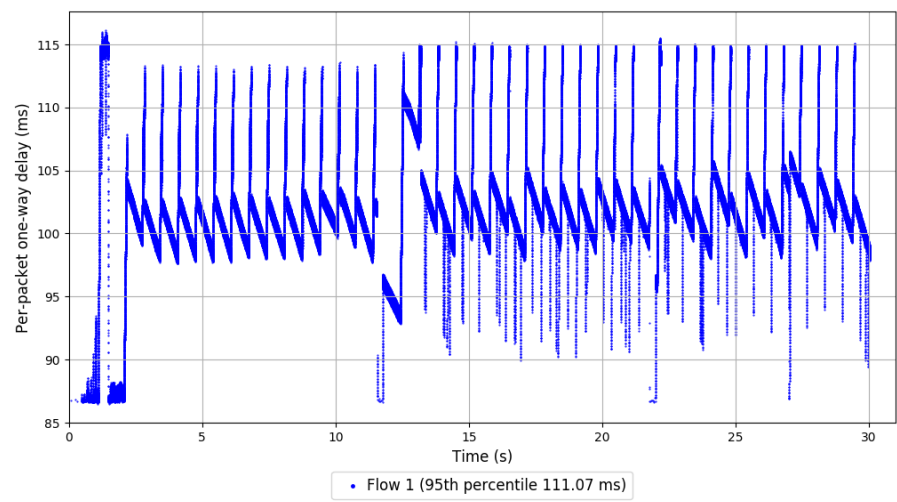
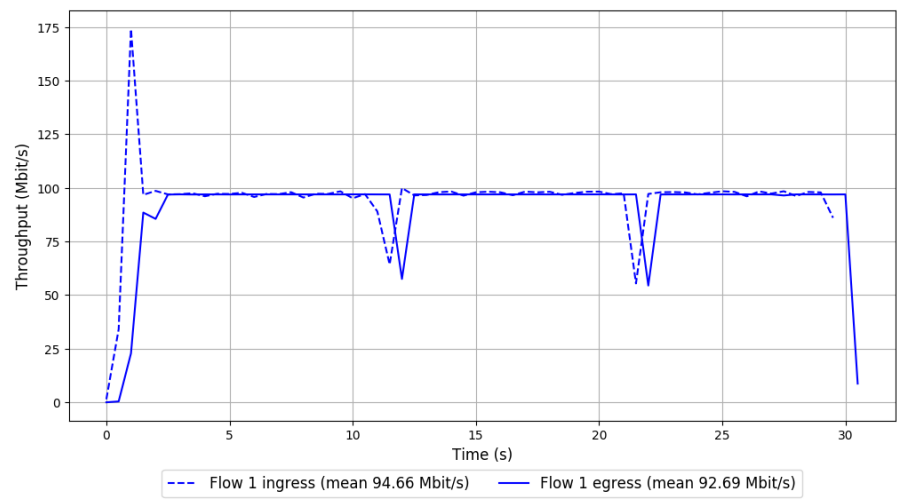
-- Flow 1:

Average throughput: 92.69 Mbit/s

95th percentile per-packet one-way delay: 111.073 ms

Loss rate: 2.04%

Run 8: Report of FillP-Sheep — Data Link



Run 9: Statistics of FillP-Sheep

Start at: 2018-08-09 03:53:04

End at: 2018-08-09 03:53:34

Local clock offset: -4.493 ms

Remote clock offset: 5.574 ms

Below is generated by plot.py at 2018-08-09 04:27:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.77 Mbit/s

95th percentile per-packet one-way delay: 110.239 ms

Loss rate: 1.98%

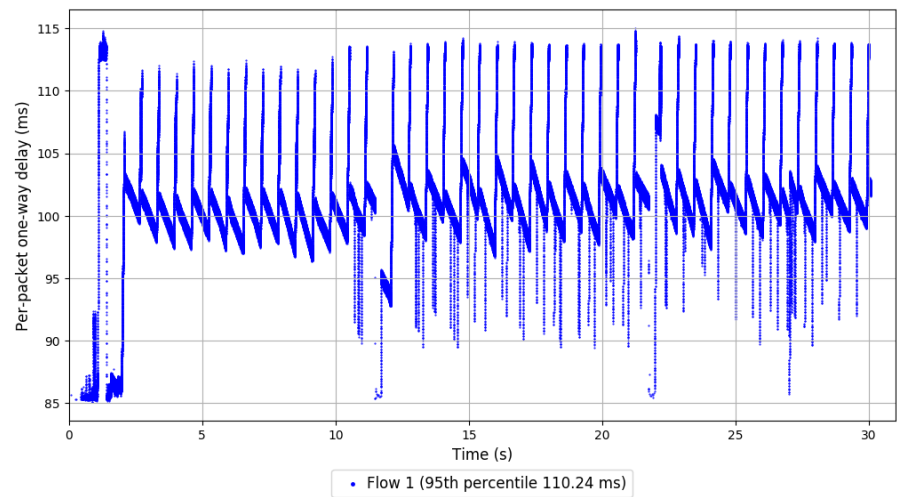
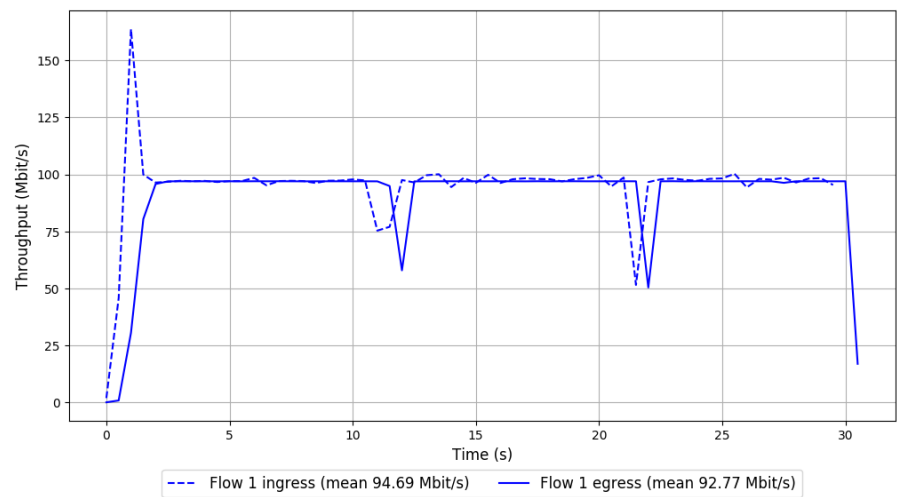
-- Flow 1:

Average throughput: 92.77 Mbit/s

95th percentile per-packet one-way delay: 110.239 ms

Loss rate: 1.98%

Run 9: Report of FillP-Sheep — Data Link

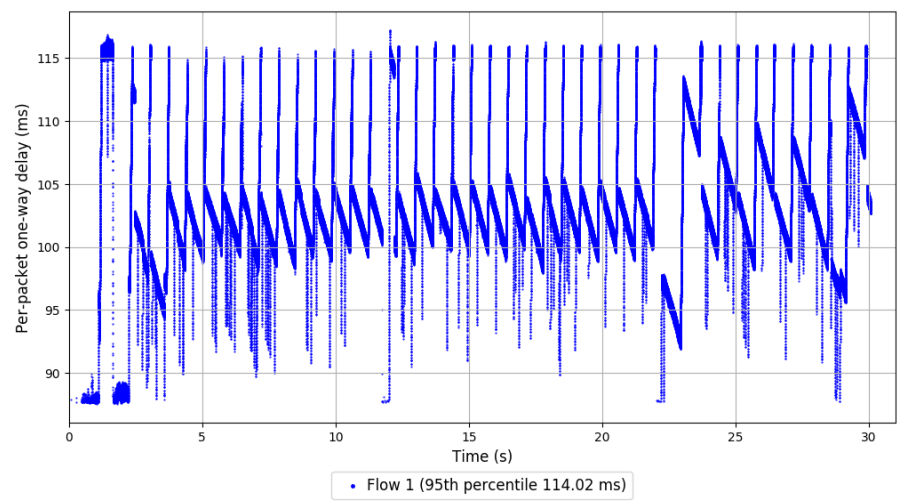
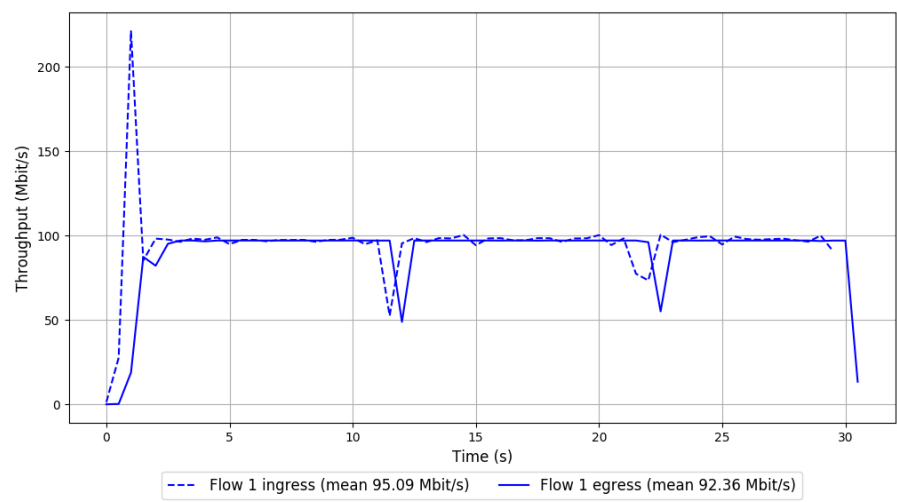


Run 10: Statistics of FillP-Sheep

Start at: 2018-08-09 04:12:57
End at: 2018-08-09 04:13:27
Local clock offset: -0.641 ms
Remote clock offset: -1.003 ms

Below is generated by plot.py at 2018-08-09 04:27:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 92.36 Mbit/s
95th percentile per-packet one-way delay: 114.021 ms
Loss rate: 2.81%
-- Flow 1:
Average throughput: 92.36 Mbit/s
95th percentile per-packet one-way delay: 114.021 ms
Loss rate: 2.81%

Run 10: Report of FillP-Sheep — Data Link

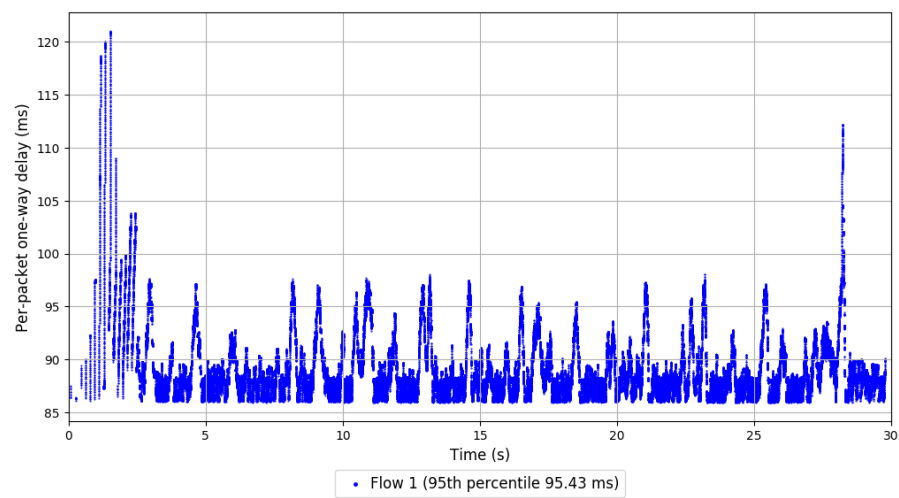
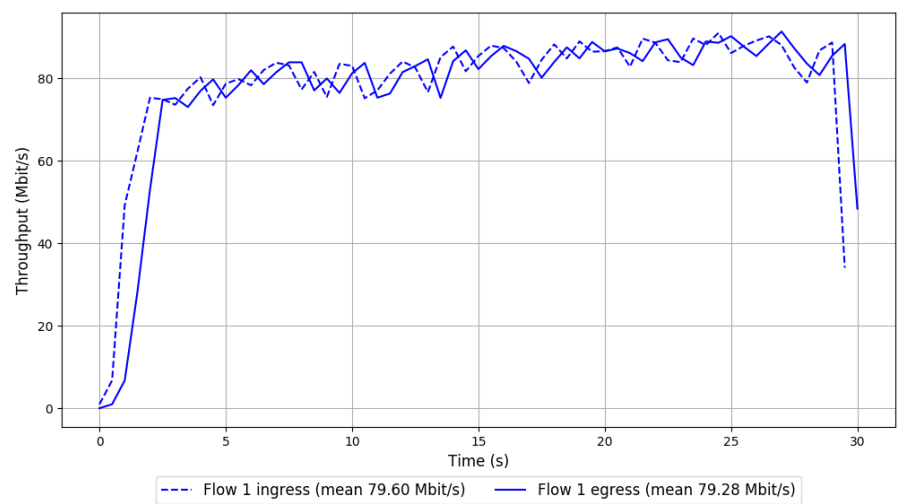


```
Run 1: Statistics of Indigo

Start at: 2018-08-09 01:09:41
End at: 2018-08-09 01:10:11
Local clock offset: -8.762 ms
Remote clock offset: 3.995 ms

# Below is generated by plot.py at 2018-08-09 04:27:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 79.28 Mbit/s
95th percentile per-packet one-way delay: 95.433 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 79.28 Mbit/s
95th percentile per-packet one-way delay: 95.433 ms
Loss rate: 0.40%
```

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2018-08-09 01:29:24

End at: 2018-08-09 01:29:54

Local clock offset: -8.026 ms

Remote clock offset: 3.222 ms

Below is generated by plot.py at 2018-08-09 04:27:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.11 Mbit/s

95th percentile per-packet one-way delay: 98.458 ms

Loss rate: 1.01%

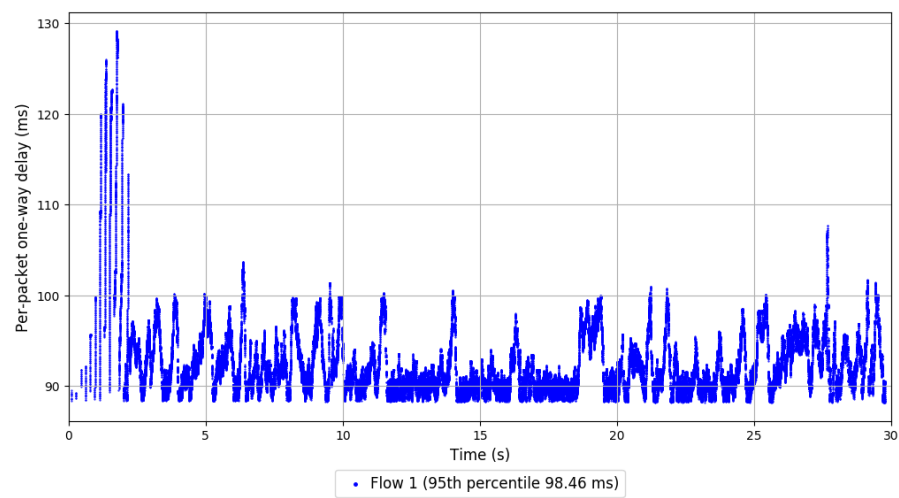
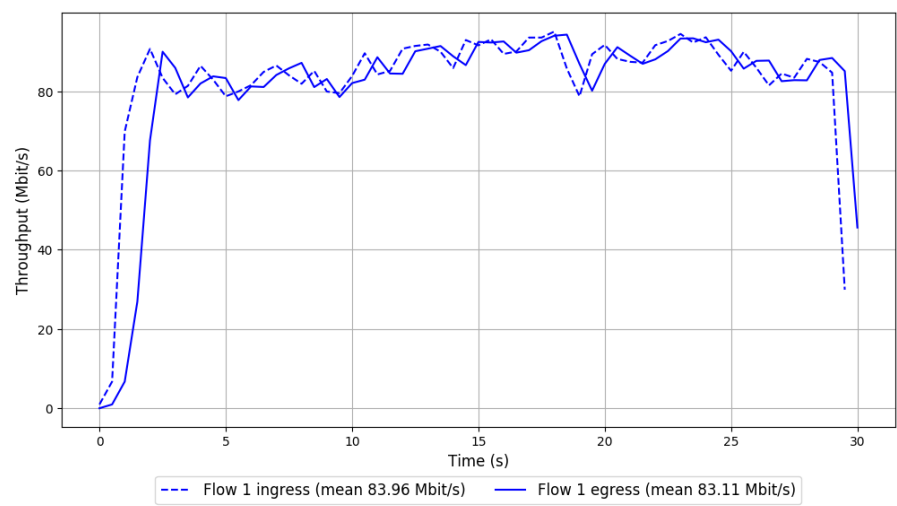
-- Flow 1:

Average throughput: 83.11 Mbit/s

95th percentile per-packet one-way delay: 98.458 ms

Loss rate: 1.01%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-08-09 01:49:12

End at: 2018-08-09 01:49:43

Local clock offset: -6.604 ms

Remote clock offset: 9.03 ms

Below is generated by plot.py at 2018-08-09 04:27:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.21 Mbit/s

95th percentile per-packet one-way delay: 95.233 ms

Loss rate: 0.23%

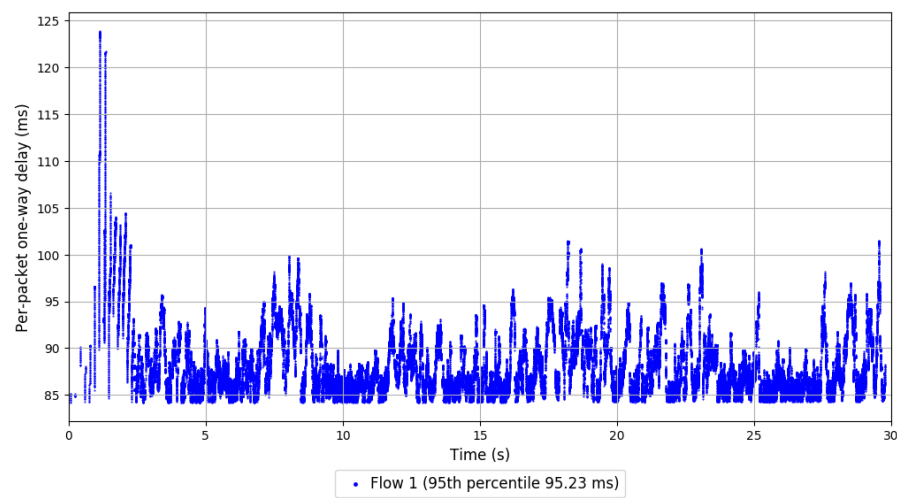
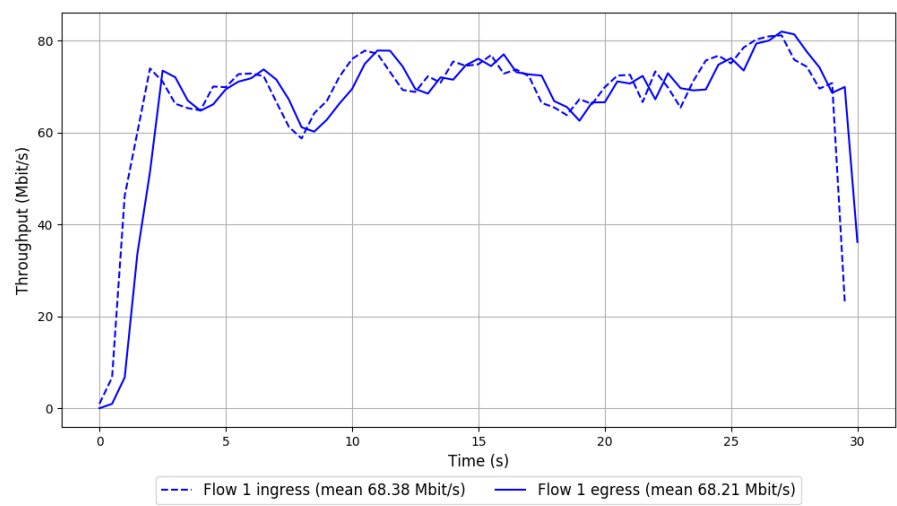
-- Flow 1:

Average throughput: 68.21 Mbit/s

95th percentile per-packet one-way delay: 95.233 ms

Loss rate: 0.23%

Run 3: Report of Indigo — Data Link

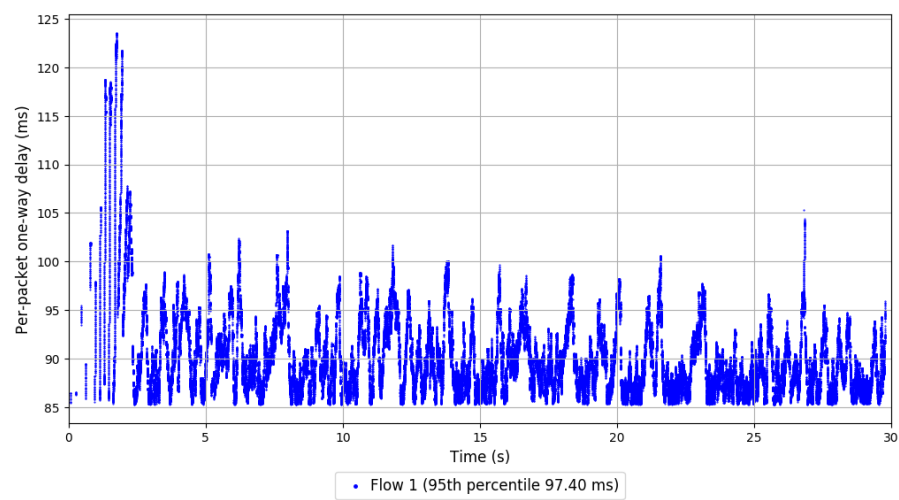
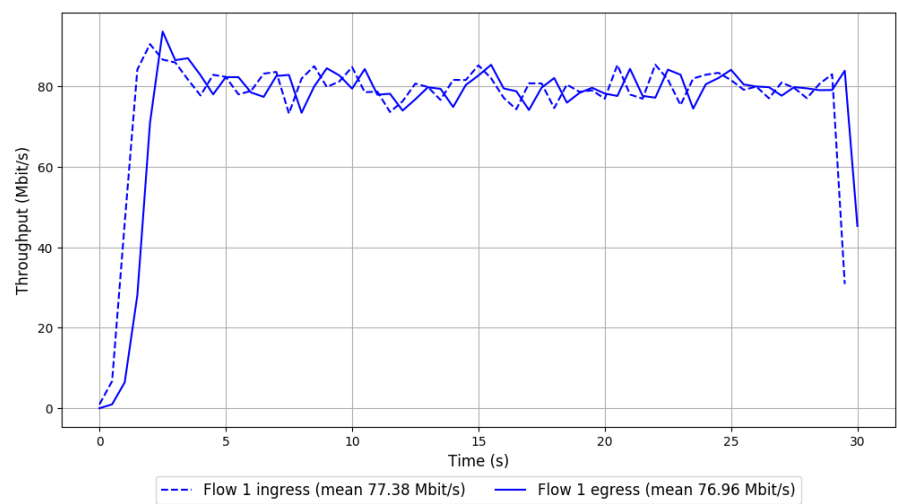


Run 4: Statistics of Indigo

Start at: 2018-08-09 02:08:49
End at: 2018-08-09 02:09:19
Local clock offset: -2.973 ms
Remote clock offset: 11.959 ms

Below is generated by plot.py at 2018-08-09 04:28:01
Datalink statistics
-- Total of 1 flow:
Average throughput: 76.96 Mbit/s
95th percentile per-packet one-way delay: 97.404 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 76.96 Mbit/s
95th percentile per-packet one-way delay: 97.404 ms
Loss rate: 0.51%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-08-09 02:28:33

End at: 2018-08-09 02:29:03

Local clock offset: -2.682 ms

Remote clock offset: 8.647 ms

Below is generated by plot.py at 2018-08-09 04:28:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.00 Mbit/s

95th percentile per-packet one-way delay: 91.010 ms

Loss rate: 0.24%

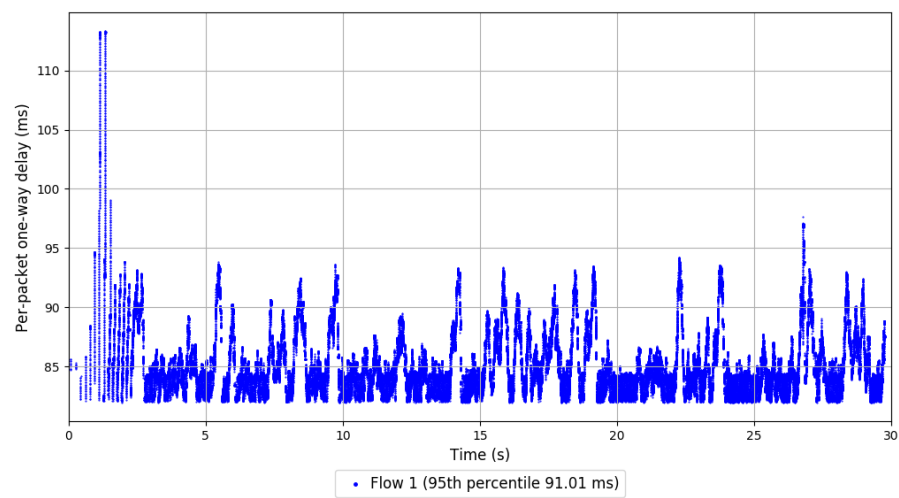
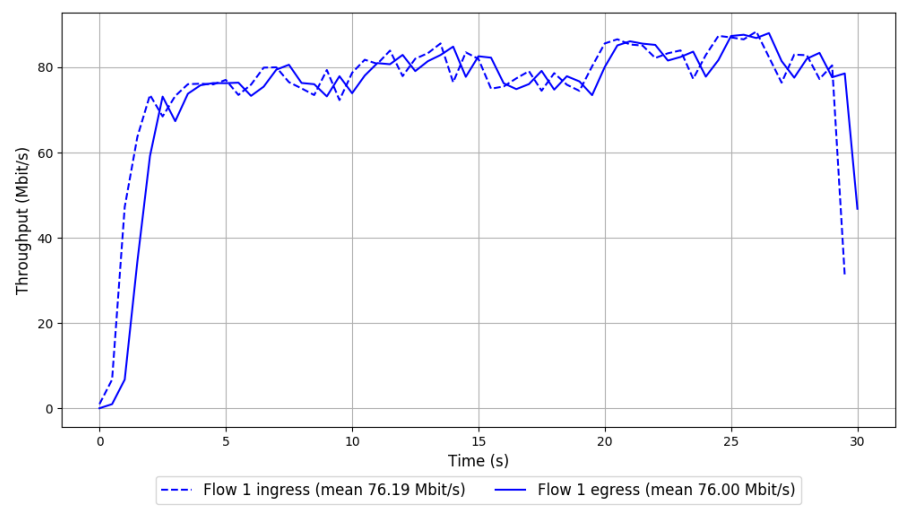
-- Flow 1:

Average throughput: 76.00 Mbit/s

95th percentile per-packet one-way delay: 91.010 ms

Loss rate: 0.24%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2018-08-09 02:48:27

End at: 2018-08-09 02:48:57

Local clock offset: -3.588 ms

Remote clock offset: 6.385 ms

Below is generated by plot.py at 2018-08-09 04:28:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.98 Mbit/s

95th percentile per-packet one-way delay: 95.567 ms

Loss rate: 0.16%

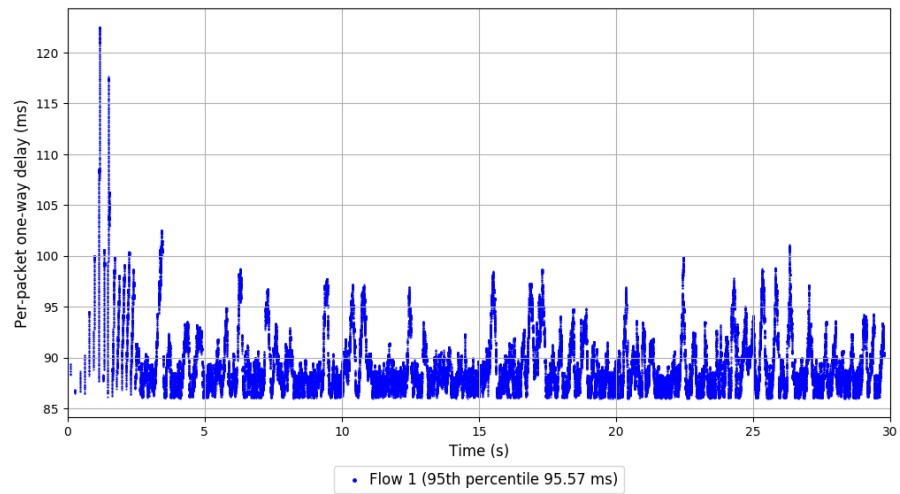
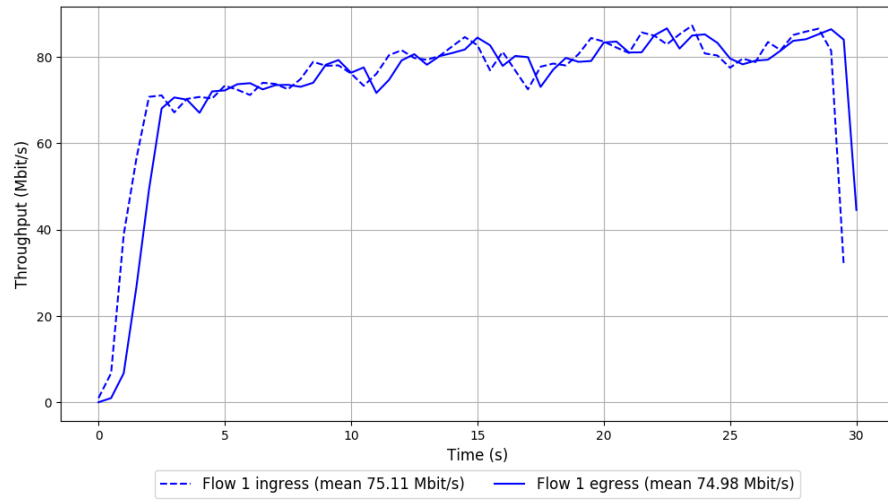
-- Flow 1:

Average throughput: 74.98 Mbit/s

95th percentile per-packet one-way delay: 95.567 ms

Loss rate: 0.16%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2018-08-09 03:08:28

End at: 2018-08-09 03:08:58

Local clock offset: -7.257 ms

Remote clock offset: 2.0 ms

Below is generated by plot.py at 2018-08-09 04:28:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.08 Mbit/s

95th percentile per-packet one-way delay: 98.576 ms

Loss rate: 1.15%

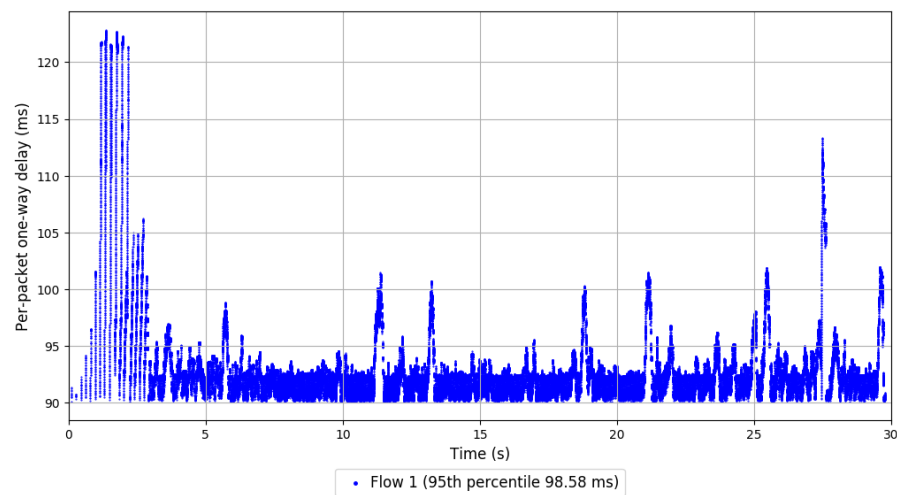
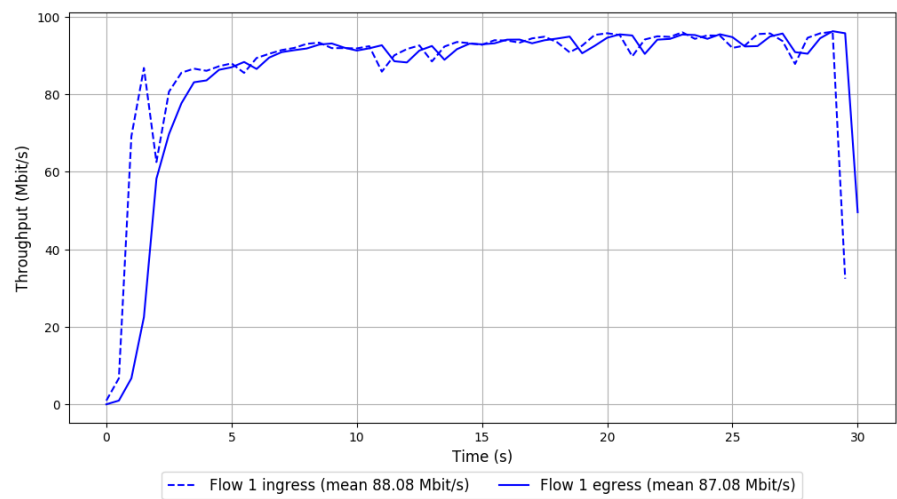
-- Flow 1:

Average throughput: 87.08 Mbit/s

95th percentile per-packet one-way delay: 98.576 ms

Loss rate: 1.15%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2018-08-09 03:28:24

End at: 2018-08-09 03:28:54

Local clock offset: -8.152 ms

Remote clock offset: 2.1 ms

Below is generated by plot.py at 2018-08-09 04:28:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.69 Mbit/s

95th percentile per-packet one-way delay: 85.601 ms

Loss rate: 0.76%

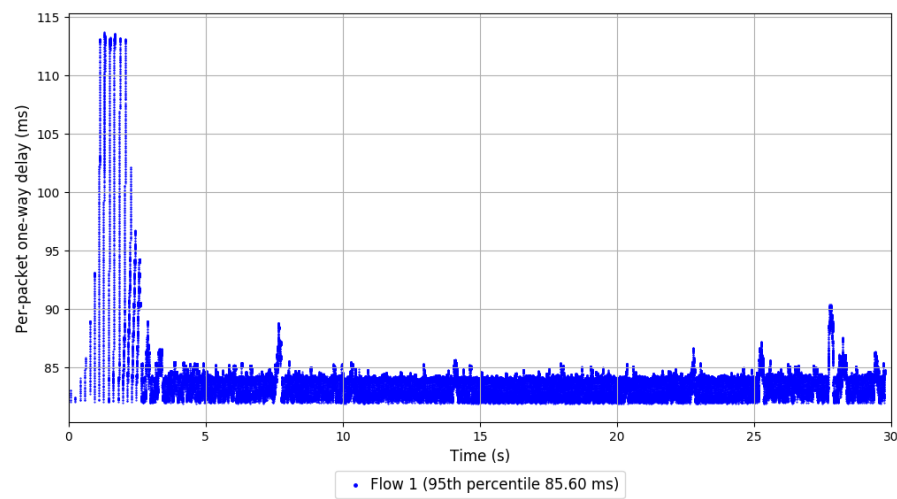
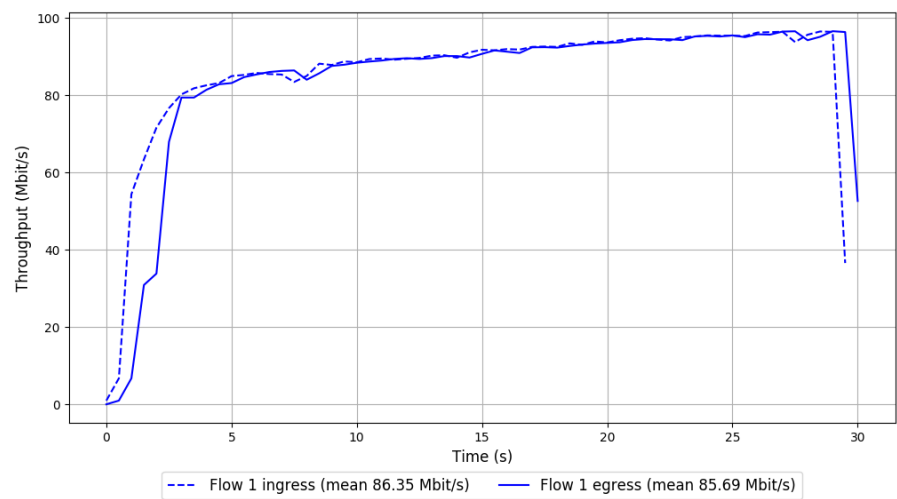
-- Flow 1:

Average throughput: 85.69 Mbit/s

95th percentile per-packet one-way delay: 85.601 ms

Loss rate: 0.76%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2018-08-09 03:48:16

End at: 2018-08-09 03:48:46

Local clock offset: -7.024 ms

Remote clock offset: 4.321 ms

Below is generated by plot.py at 2018-08-09 04:29:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.50 Mbit/s

95th percentile per-packet one-way delay: 89.571 ms

Loss rate: 0.76%

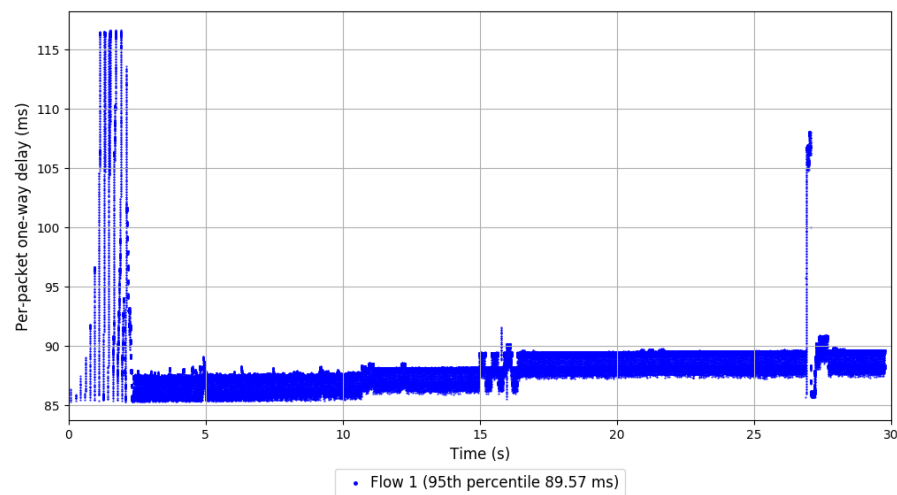
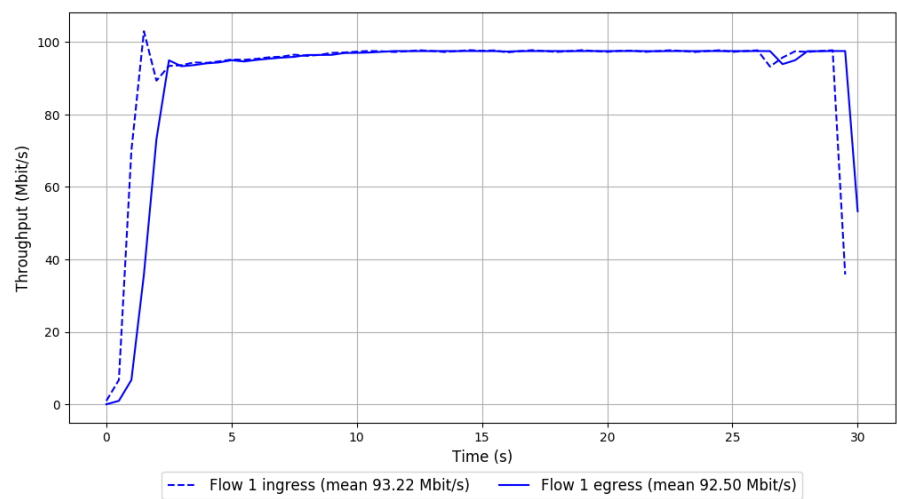
-- Flow 1:

Average throughput: 92.50 Mbit/s

95th percentile per-packet one-way delay: 89.571 ms

Loss rate: 0.76%

Run 9: Report of Indigo — Data Link

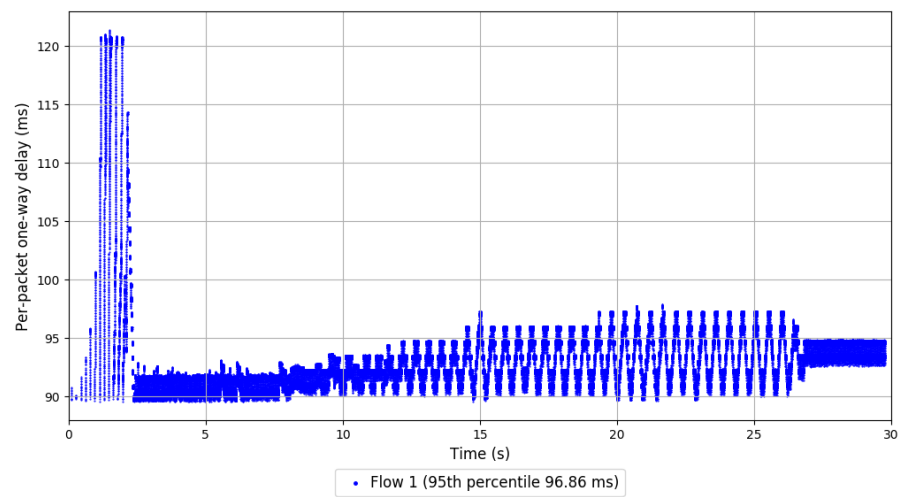
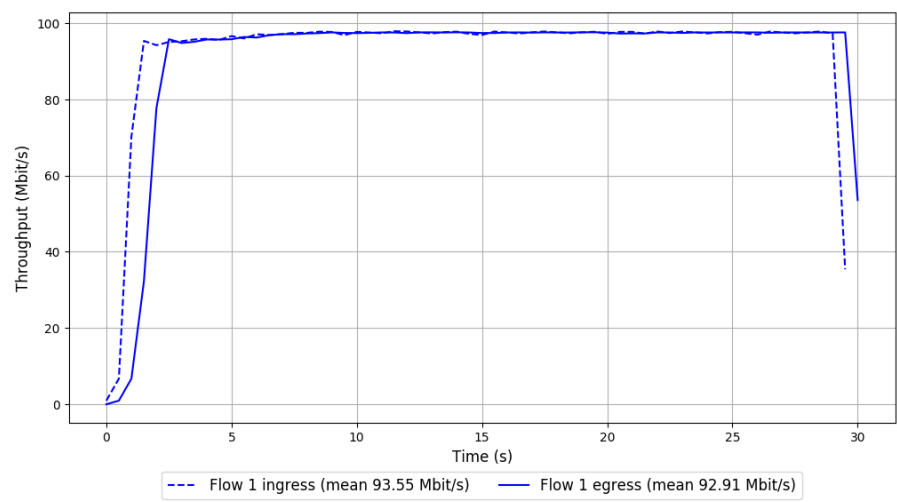


```
Run 10: Statistics of Indigo

Start at: 2018-08-09 04:08:12
End at: 2018-08-09 04:08:42
Local clock offset: -1.13 ms
Remote clock offset: 3.093 ms

# Below is generated by plot.py at 2018-08-09 04:29:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.91 Mbit/s
95th percentile per-packet one-way delay: 96.857 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 92.91 Mbit/s
95th percentile per-packet one-way delay: 96.857 ms
Loss rate: 0.66%
```

Run 10: Report of Indigo — Data Link

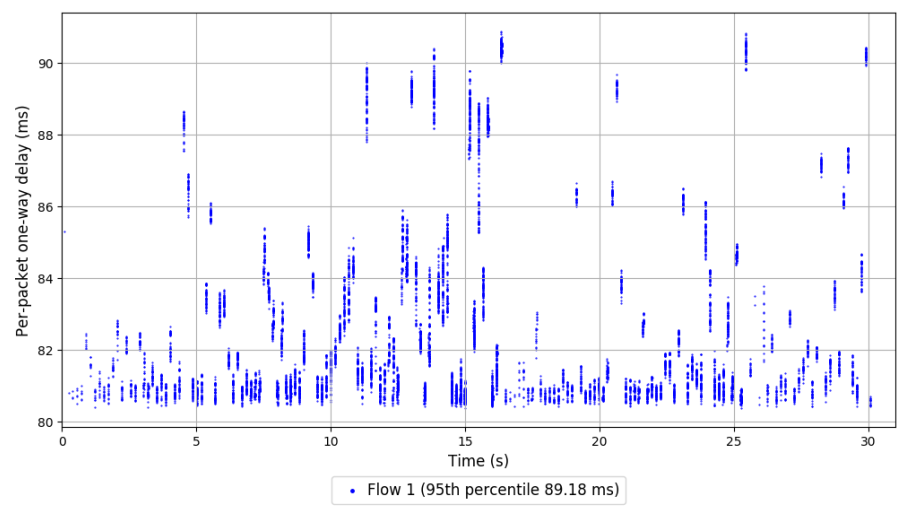
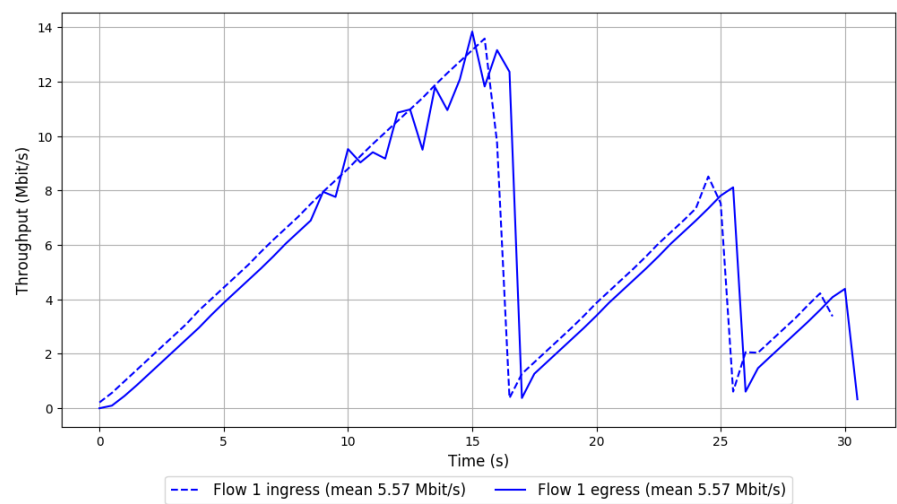


```
Run 1: Statistics of LEDBAT

Start at: 2018-08-09 01:06:10
End at: 2018-08-09 01:06:40
Local clock offset: -8.256 ms
Remote clock offset: 0.142 ms

# Below is generated by plot.py at 2018-08-09 04:29:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.57 Mbit/s
95th percentile per-packet one-way delay: 89.178 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 5.57 Mbit/s
95th percentile per-packet one-way delay: 89.178 ms
Loss rate: 0.15%
```

Run 1: Report of LEDBAT — Data Link

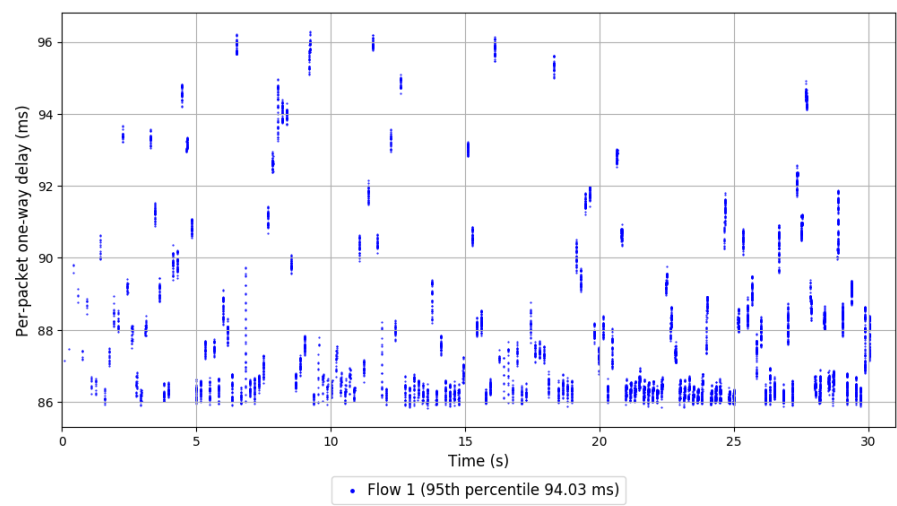
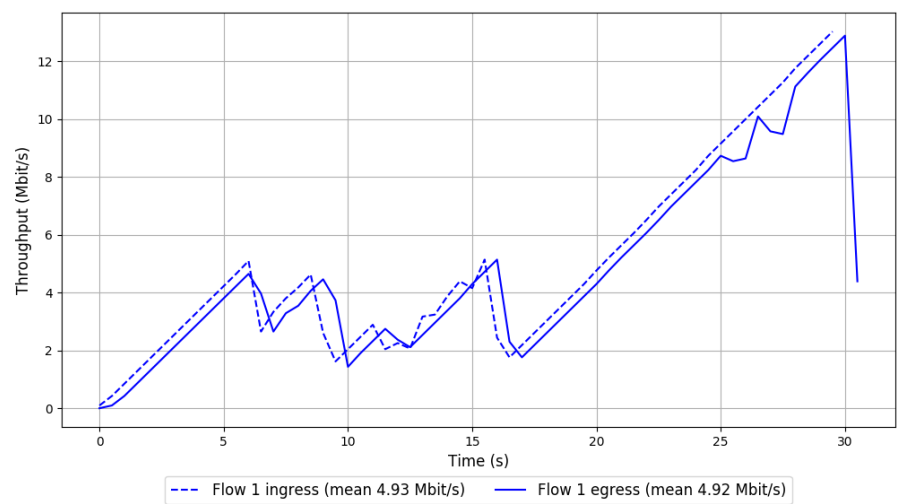


```
Run 2: Statistics of LEDBAT

Start at: 2018-08-09 01:25:58
End at: 2018-08-09 01:26:28
Local clock offset: -8.049 ms
Remote clock offset: 4.032 ms

# Below is generated by plot.py at 2018-08-09 04:29:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 4.92 Mbit/s
95th percentile per-packet one-way delay: 94.030 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 4.92 Mbit/s
95th percentile per-packet one-way delay: 94.030 ms
Loss rate: 0.12%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-08-09 01:45:45

End at: 2018-08-09 01:46:15

Local clock offset: -8.517 ms

Remote clock offset: 9.568 ms

Below is generated by plot.py at 2018-08-09 04:29:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.03 Mbit/s

95th percentile per-packet one-way delay: 100.619 ms

Loss rate: 0.19%

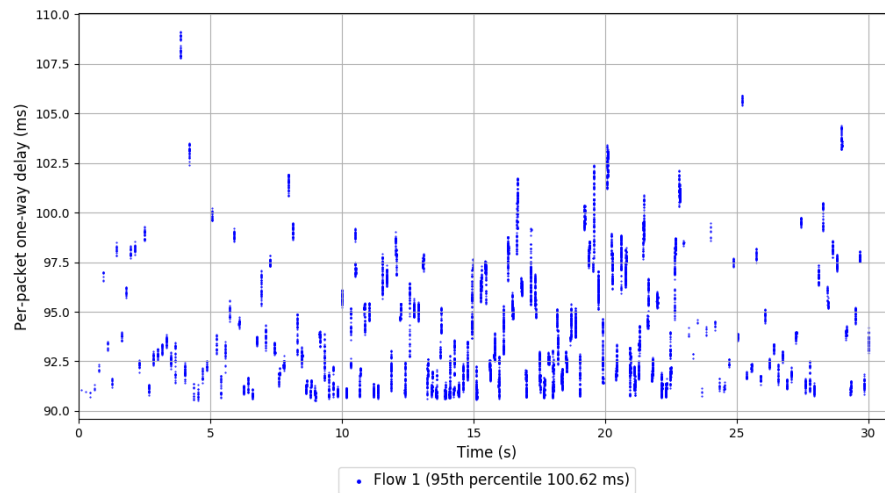
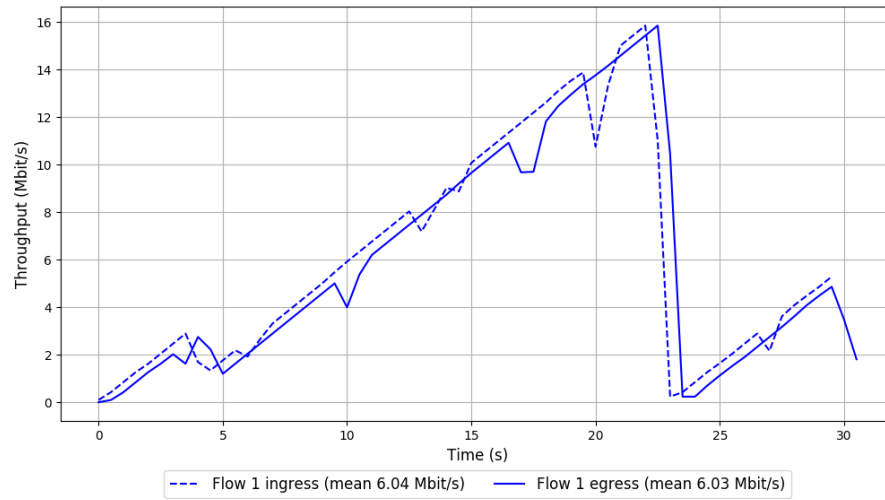
-- Flow 1:

Average throughput: 6.03 Mbit/s

95th percentile per-packet one-way delay: 100.619 ms

Loss rate: 0.19%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-08-09 02:05:25

End at: 2018-08-09 02:05:55

Local clock offset: -3.241 ms

Remote clock offset: 5.601 ms

Below is generated by plot.py at 2018-08-09 04:29:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.75 Mbit/s

95th percentile per-packet one-way delay: 95.444 ms

Loss rate: 0.18%

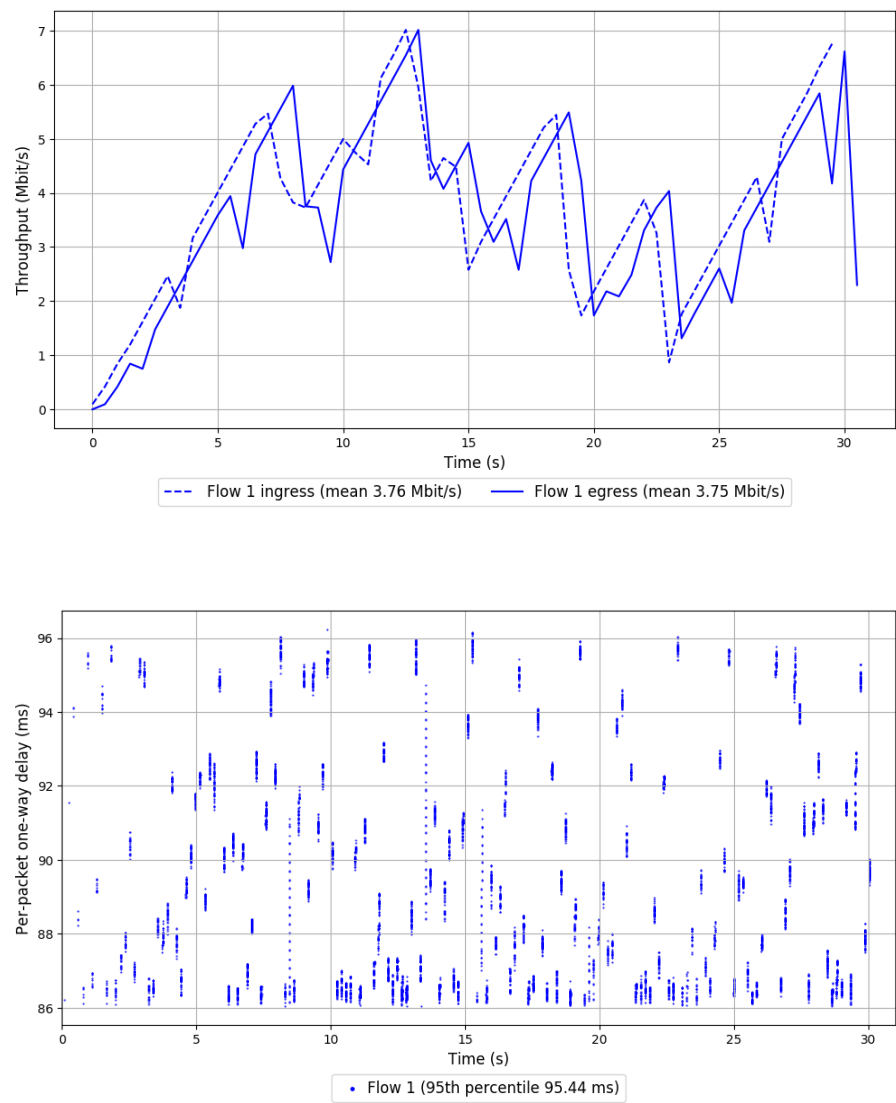
-- Flow 1:

Average throughput: 3.75 Mbit/s

95th percentile per-packet one-way delay: 95.444 ms

Loss rate: 0.18%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-08-09 02:25:05

End at: 2018-08-09 02:25:35

Local clock offset: -2.624 ms

Remote clock offset: 8.295 ms

Below is generated by plot.py at 2018-08-09 04:29:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.82 Mbit/s

95th percentile per-packet one-way delay: 93.430 ms

Loss rate: 0.23%

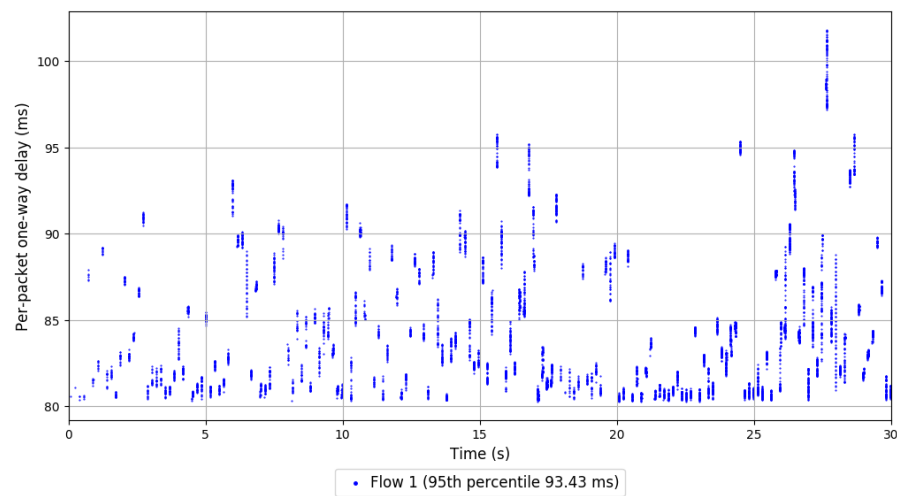
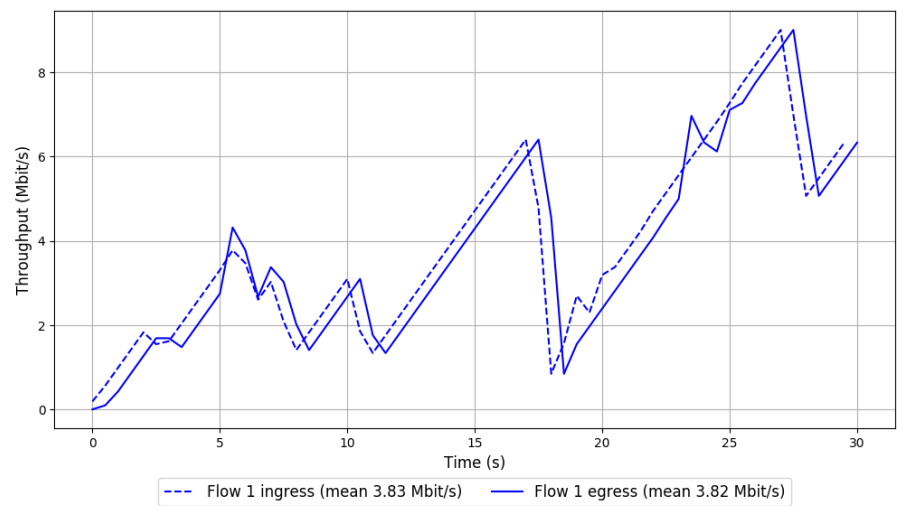
-- Flow 1:

Average throughput: 3.82 Mbit/s

95th percentile per-packet one-way delay: 93.430 ms

Loss rate: 0.23%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-08-09 02:44:55

End at: 2018-08-09 02:45:25

Local clock offset: -2.455 ms

Remote clock offset: 6.606 ms

Below is generated by plot.py at 2018-08-09 04:29:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.40 Mbit/s

95th percentile per-packet one-way delay: 94.375 ms

Loss rate: 0.20%

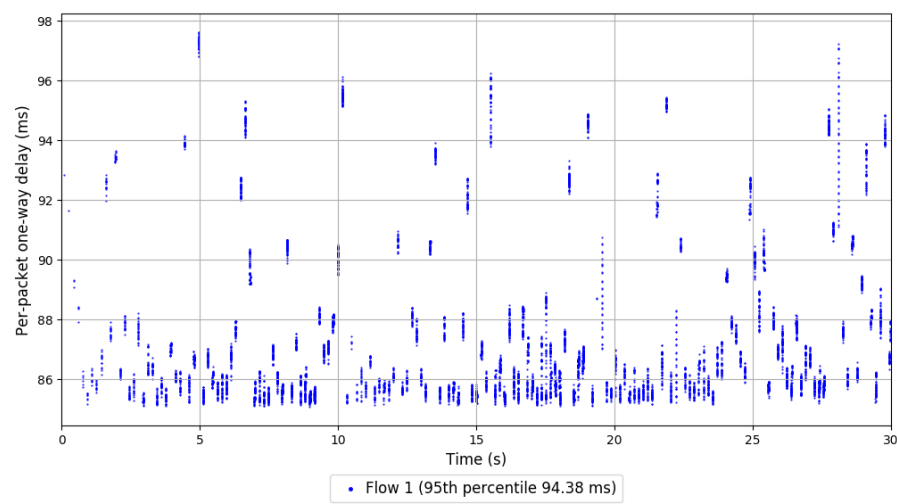
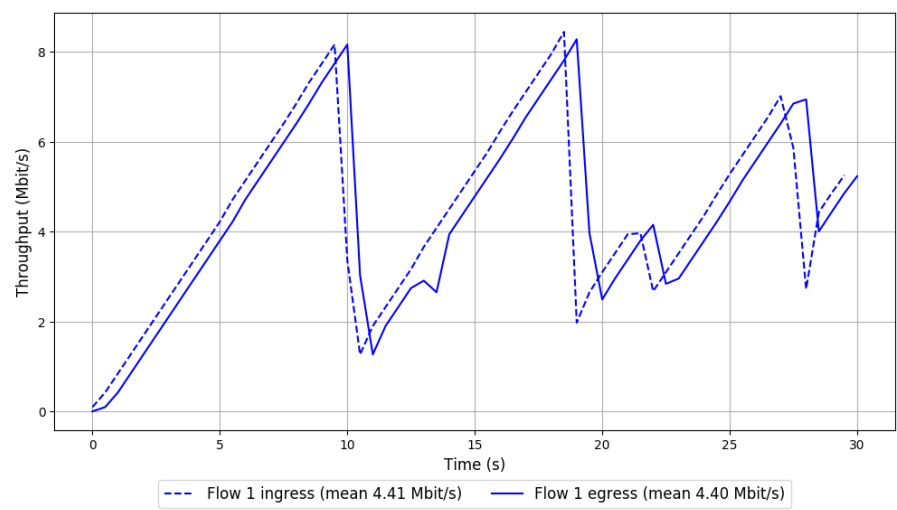
-- Flow 1:

Average throughput: 4.40 Mbit/s

95th percentile per-packet one-way delay: 94.375 ms

Loss rate: 0.20%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-08-09 03:04:57

End at: 2018-08-09 03:05:27

Local clock offset: -6.958 ms

Remote clock offset: 4.562 ms

Below is generated by plot.py at 2018-08-09 04:29:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.24 Mbit/s

95th percentile per-packet one-way delay: 92.569 ms

Loss rate: 0.04%

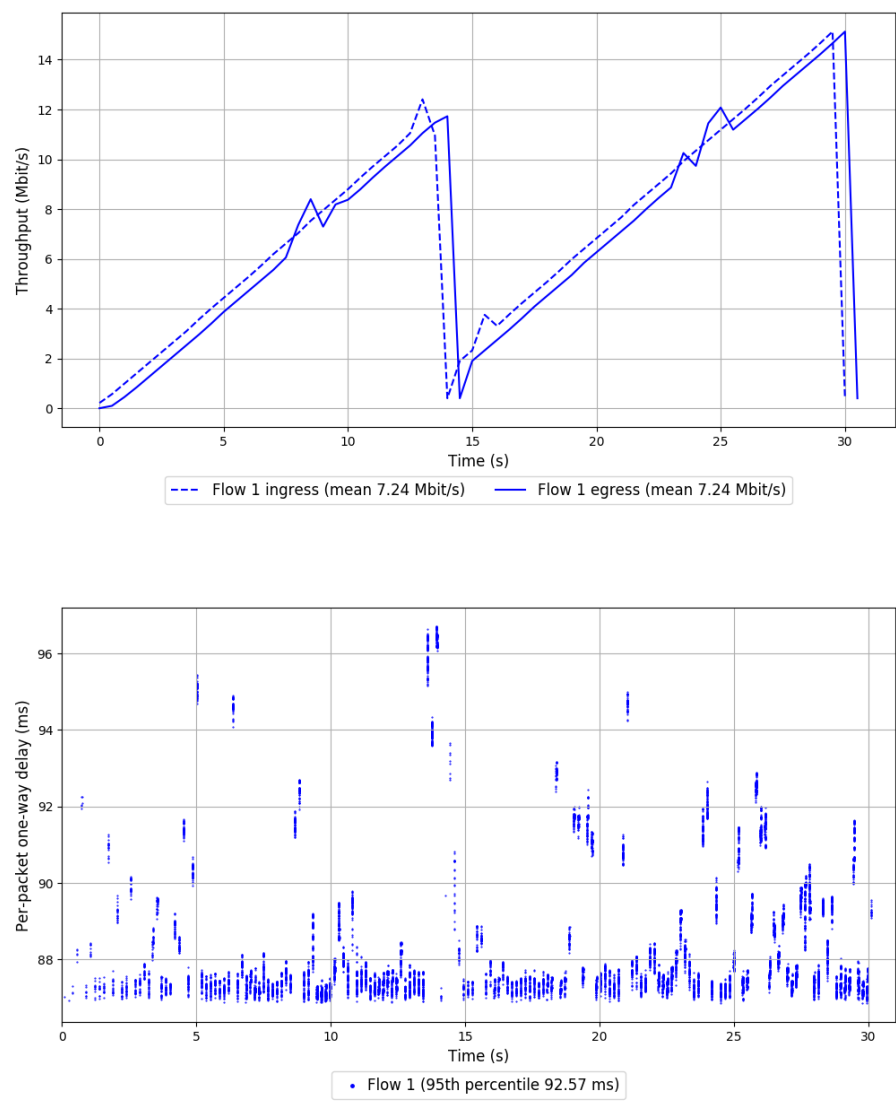
-- Flow 1:

Average throughput: 7.24 Mbit/s

95th percentile per-packet one-way delay: 92.569 ms

Loss rate: 0.04%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-08-09 03:24:54

End at: 2018-08-09 03:25:24

Local clock offset: -8.011 ms

Remote clock offset: 6.778 ms

Below is generated by plot.py at 2018-08-09 04:29:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.18 Mbit/s

95th percentile per-packet one-way delay: 89.824 ms

Loss rate: 0.00%

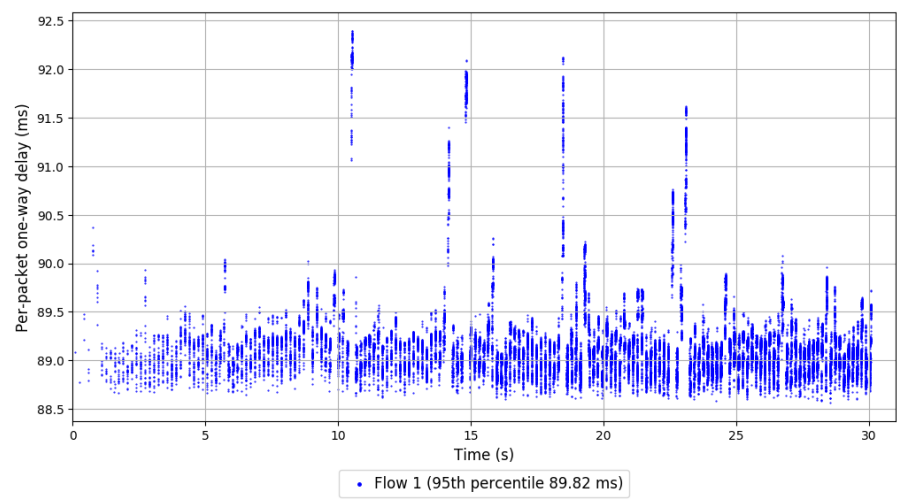
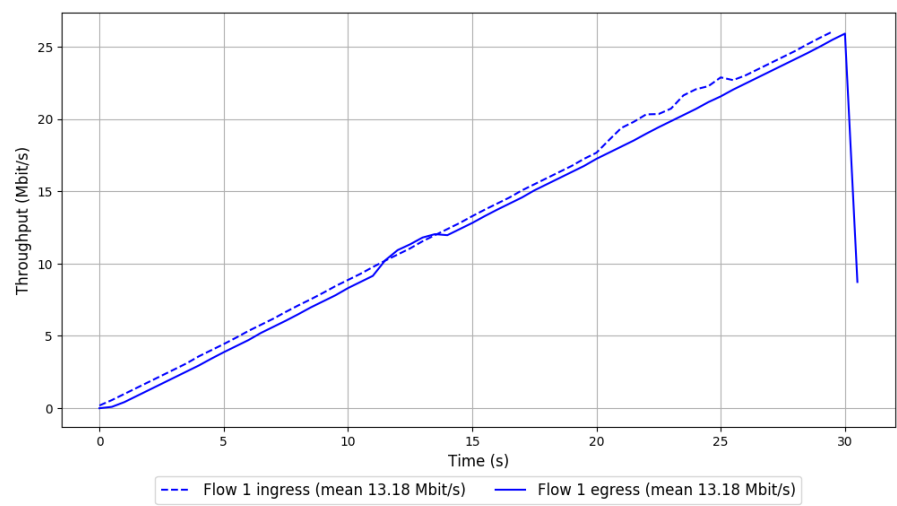
-- Flow 1:

Average throughput: 13.18 Mbit/s

95th percentile per-packet one-way delay: 89.824 ms

Loss rate: 0.00%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-08-09 03:44:46

End at: 2018-08-09 03:45:16

Local clock offset: -8.851 ms

Remote clock offset: 5.046 ms

Below is generated by plot.py at 2018-08-09 04:29:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.34 Mbit/s

95th percentile per-packet one-way delay: 90.875 ms

Loss rate: 0.00%

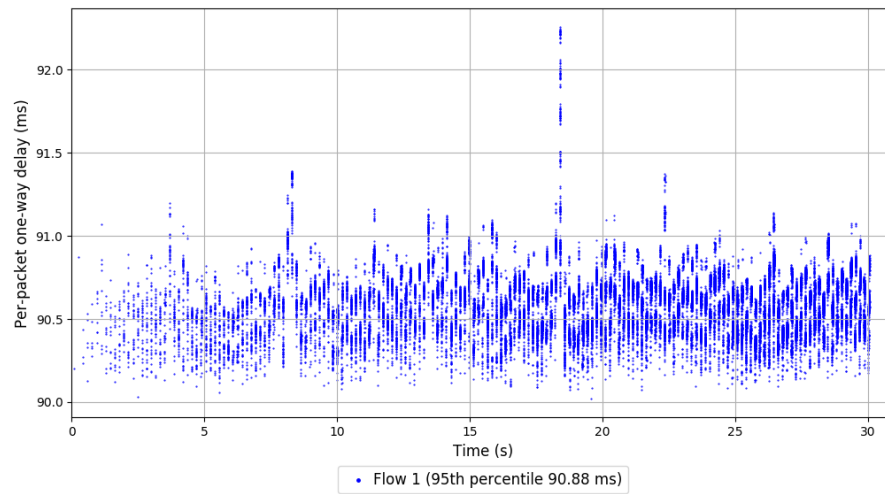
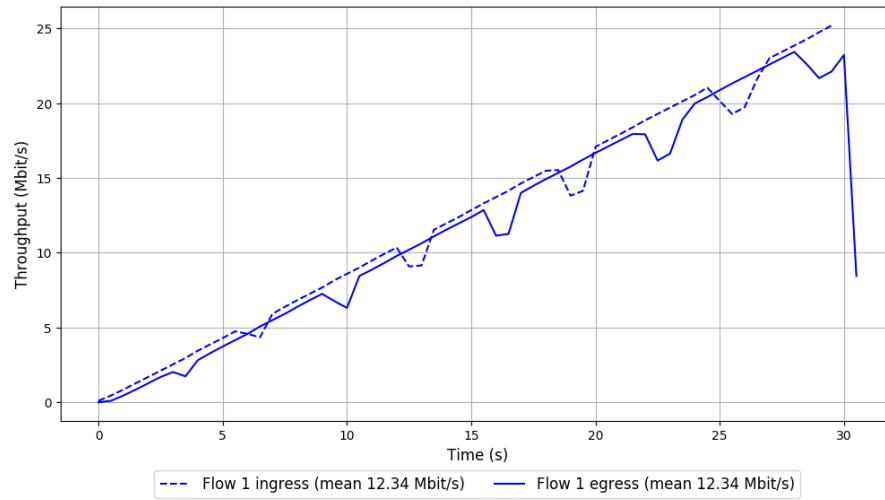
-- Flow 1:

Average throughput: 12.34 Mbit/s

95th percentile per-packet one-way delay: 90.875 ms

Loss rate: 0.00%

Run 9: Report of LEDBAT — Data Link

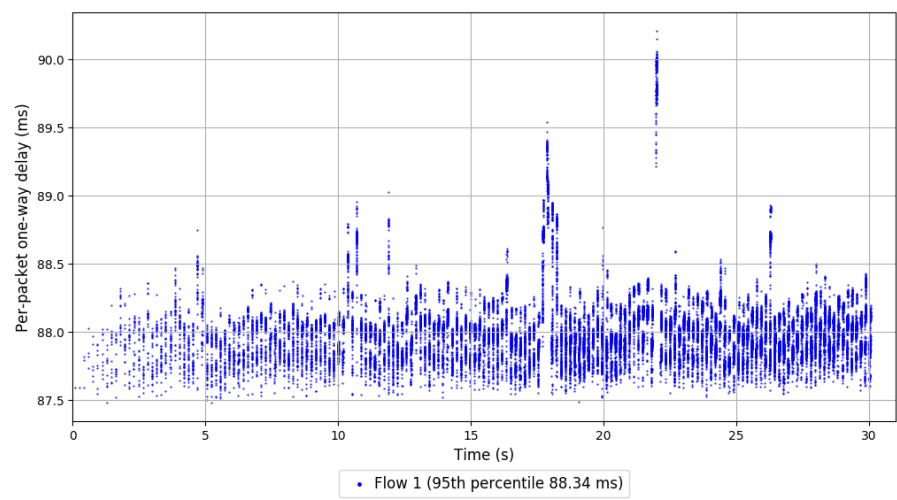
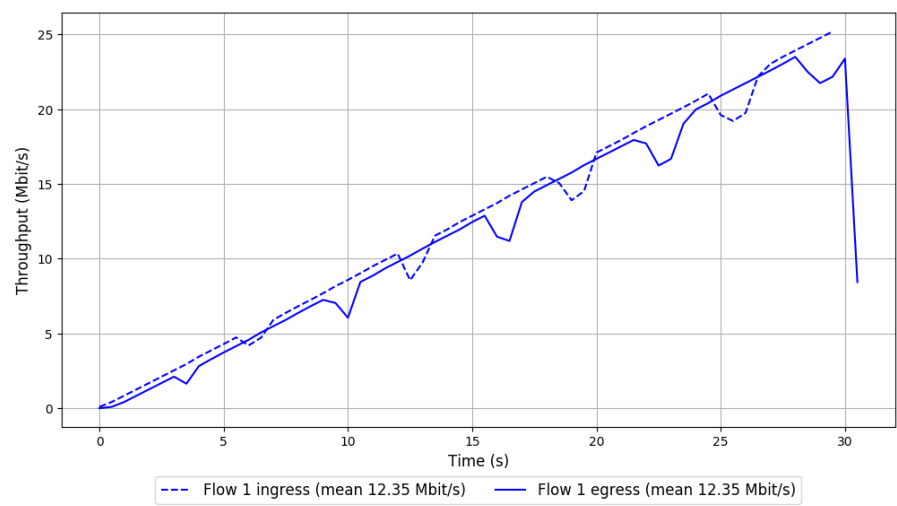


Run 10: Statistics of LEDBAT

Start at: 2018-08-09 04:04:42
End at: 2018-08-09 04:05:12
Local clock offset: -1.527 ms
Remote clock offset: -0.504 ms

Below is generated by plot.py at 2018-08-09 04:29:03
Datalink statistics
-- Total of 1 flow:
Average throughput: 12.35 Mbit/s
95th percentile per-packet one-way delay: 88.345 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 12.35 Mbit/s
95th percentile per-packet one-way delay: 88.345 ms
Loss rate: 0.00%

Run 10: Report of LEDBAT — Data Link

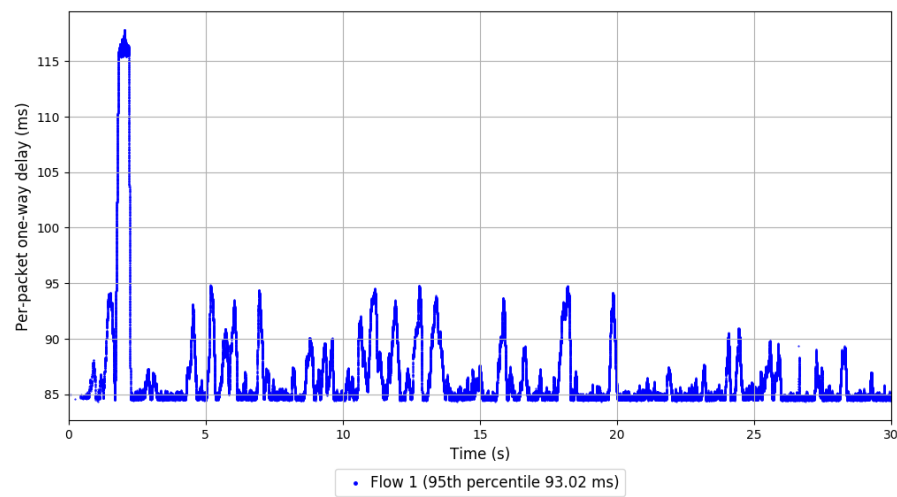
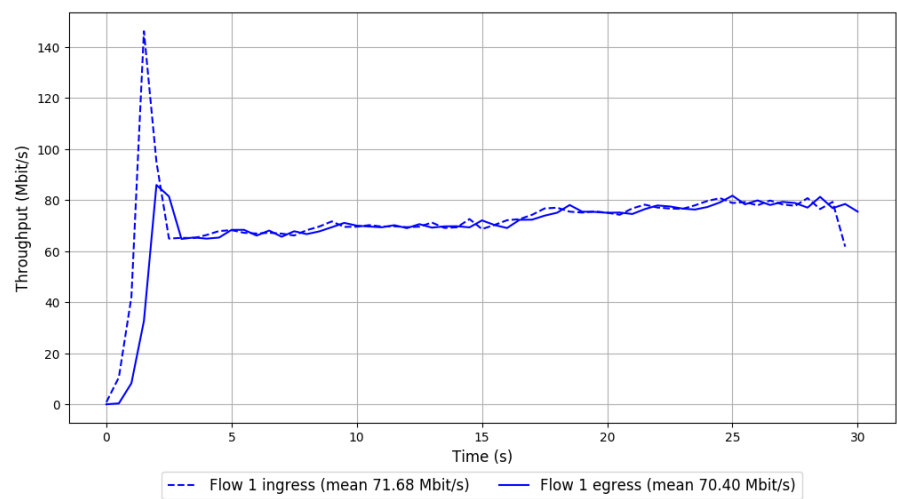


```
Run 1: Statistics of PCC-Allegro

Start at: 2018-08-09 01:03:49
End at: 2018-08-09 01:04:19
Local clock offset: -7.95 ms
Remote clock offset: 2.737 ms

# Below is generated by plot.py at 2018-08-09 04:29:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 70.40 Mbit/s
95th percentile per-packet one-way delay: 93.018 ms
Loss rate: 1.79%
-- Flow 1:
Average throughput: 70.40 Mbit/s
95th percentile per-packet one-way delay: 93.018 ms
Loss rate: 1.79%
```

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-08-09 01:23:41

End at: 2018-08-09 01:24:11

Local clock offset: -8.179 ms

Remote clock offset: 3.947 ms

Below is generated by plot.py at 2018-08-09 04:29:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.75 Mbit/s

95th percentile per-packet one-way delay: 92.959 ms

Loss rate: 1.82%

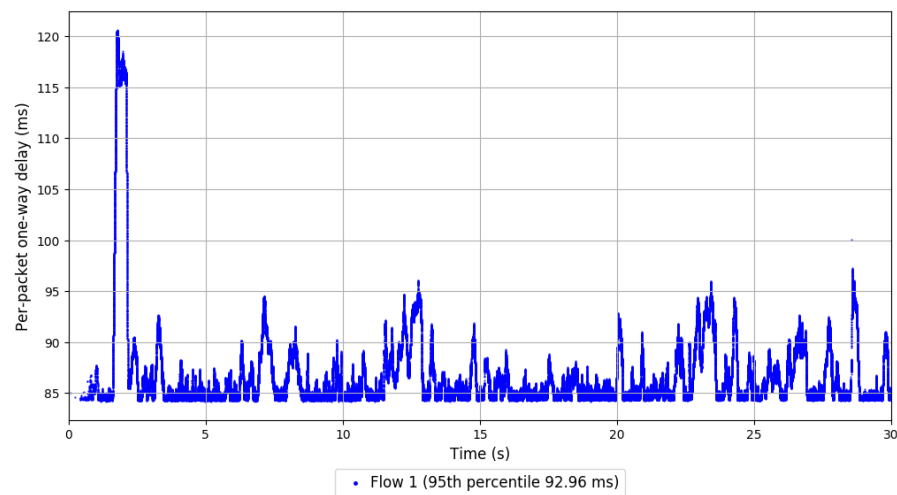
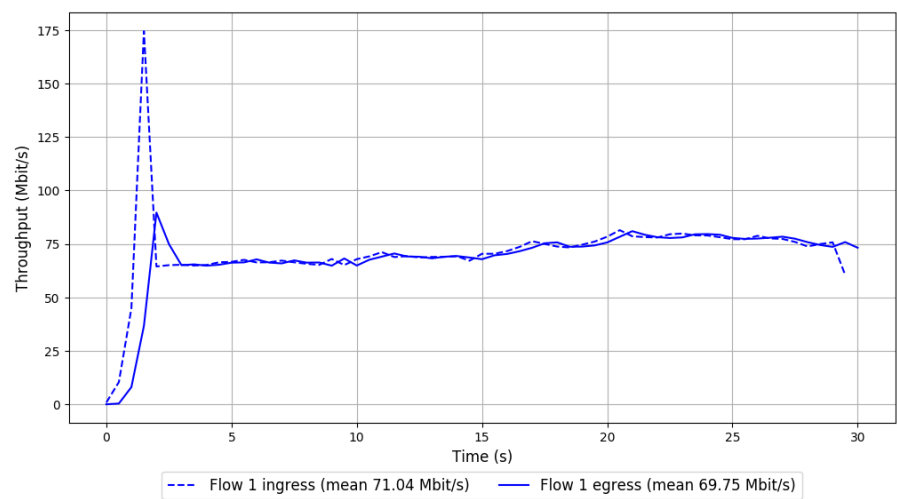
-- Flow 1:

Average throughput: 69.75 Mbit/s

95th percentile per-packet one-way delay: 92.959 ms

Loss rate: 1.82%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-08-09 01:43:24

End at: 2018-08-09 01:43:54

Local clock offset: -8.354 ms

Remote clock offset: 4.352 ms

Below is generated by plot.py at 2018-08-09 04:29:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 62.78 Mbit/s

95th percentile per-packet one-way delay: 90.065 ms

Loss rate: 2.10%

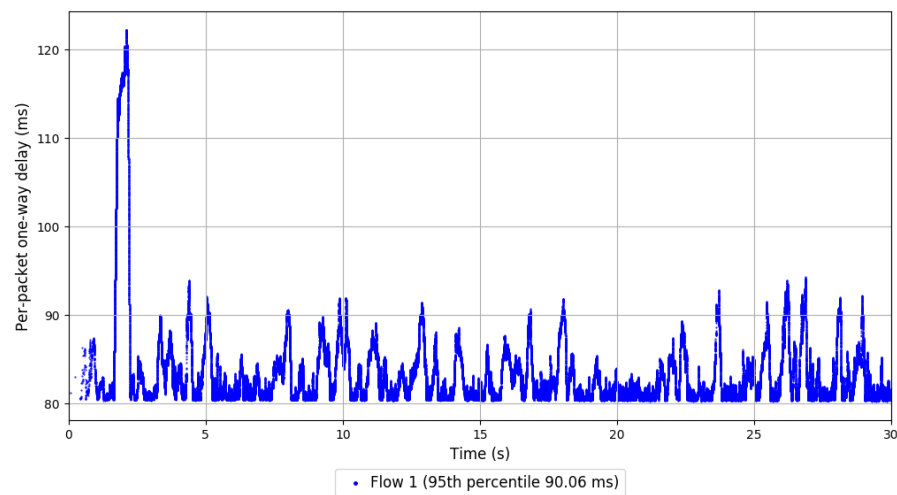
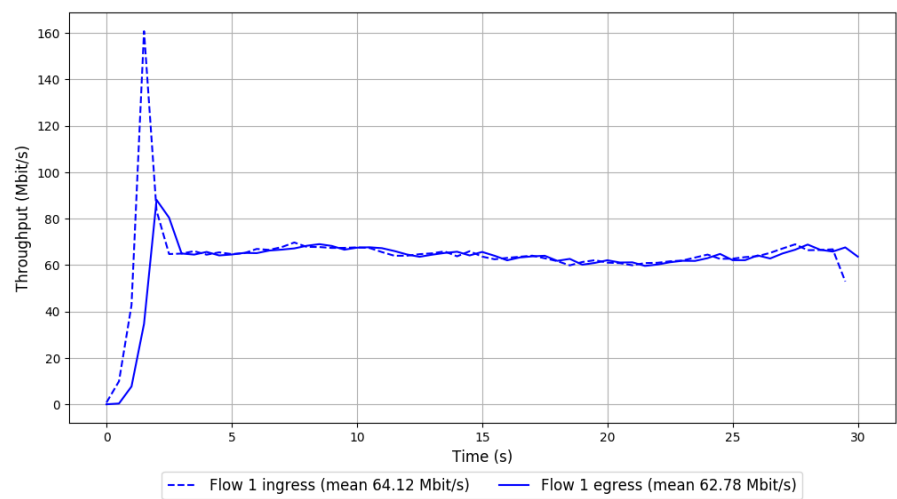
-- Flow 1:

Average throughput: 62.78 Mbit/s

95th percentile per-packet one-way delay: 90.065 ms

Loss rate: 2.10%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-08-09 02:03:08

End at: 2018-08-09 02:03:38

Local clock offset: -3.448 ms

Remote clock offset: 10.421 ms

Below is generated by plot.py at 2018-08-09 04:29:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 60.44 Mbit/s

95th percentile per-packet one-way delay: 100.157 ms

Loss rate: 2.26%

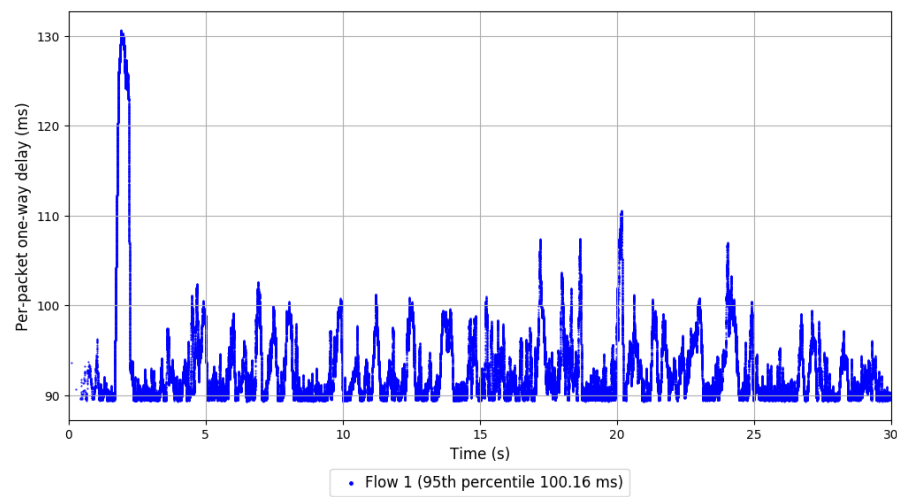
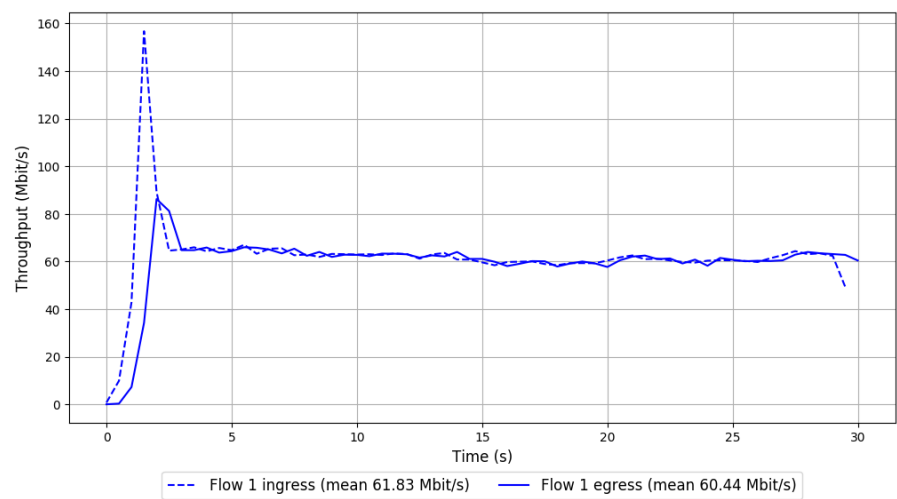
-- Flow 1:

Average throughput: 60.44 Mbit/s

95th percentile per-packet one-way delay: 100.157 ms

Loss rate: 2.26%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-08-09 02:22:48

End at: 2018-08-09 02:23:18

Local clock offset: -2.635 ms

Remote clock offset: 10.913 ms

Below is generated by plot.py at 2018-08-09 04:29:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.81 Mbit/s

95th percentile per-packet one-way delay: 93.699 ms

Loss rate: 1.82%

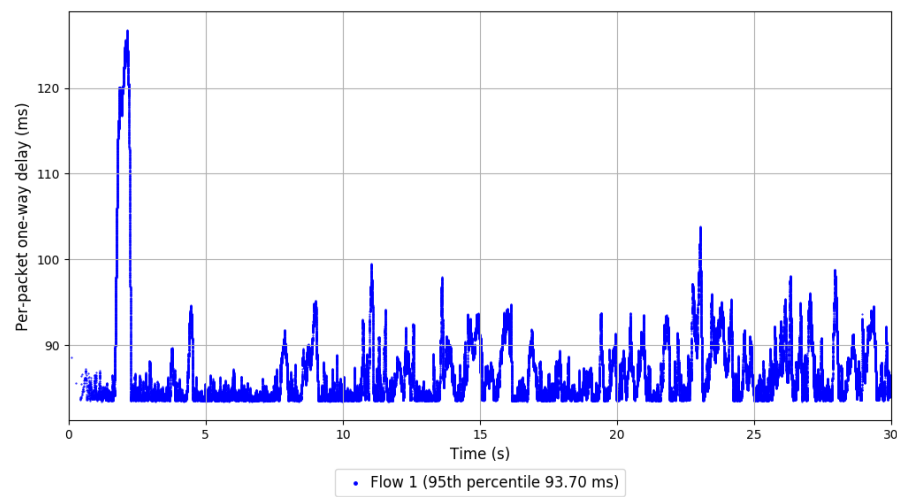
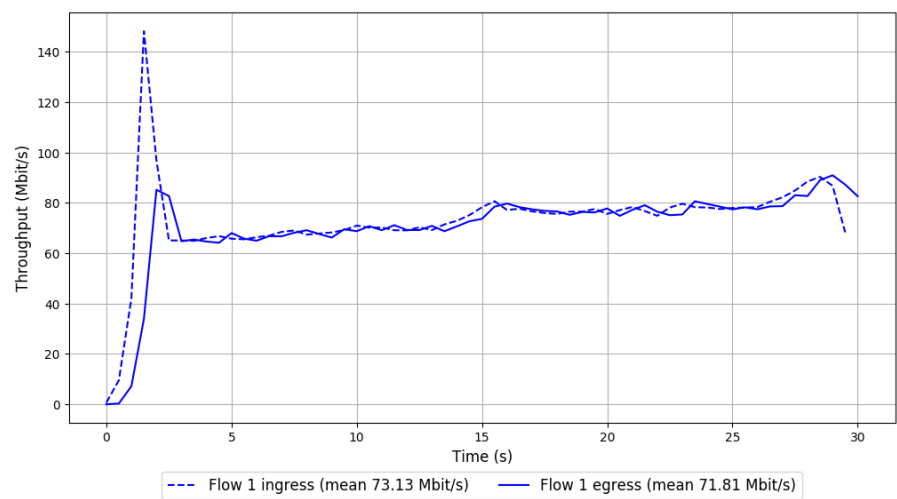
-- Flow 1:

Average throughput: 71.81 Mbit/s

95th percentile per-packet one-way delay: 93.699 ms

Loss rate: 1.82%

Run 5: Report of PCC-Allegro — Data Link



Run 6: Statistics of PCC-Allegro

Start at: 2018-08-09 02:42:35

End at: 2018-08-09 02:43:05

Local clock offset: -2.4 ms

Remote clock offset: 5.039 ms

Below is generated by plot.py at 2018-08-09 04:29:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 8.65 Mbit/s

95th percentile per-packet one-way delay: 89.775 ms

Loss rate: 0.14%

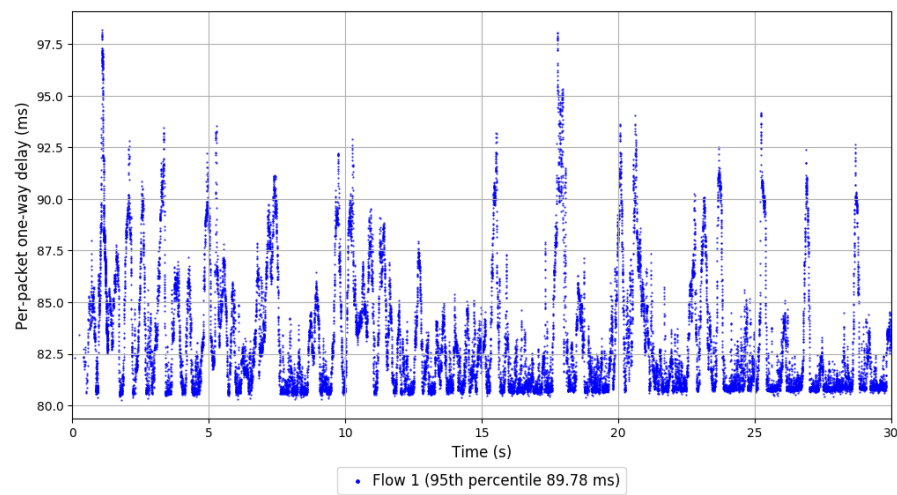
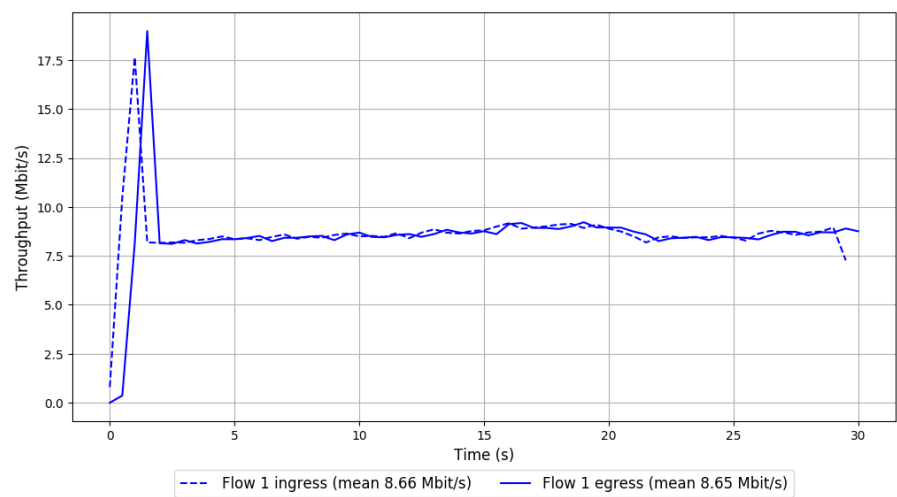
-- Flow 1:

Average throughput: 8.65 Mbit/s

95th percentile per-packet one-way delay: 89.775 ms

Loss rate: 0.14%

Run 6: Report of PCC-Allegro — Data Link



Run 7: Statistics of PCC-Allegro

Start at: 2018-08-09 03:02:33

End at: 2018-08-09 03:03:03

Local clock offset: -6.693 ms

Remote clock offset: 2.501 ms

Below is generated by plot.py at 2018-08-09 04:29:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 70.89 Mbit/s

95th percentile per-packet one-way delay: 92.455 ms

Loss rate: 1.78%

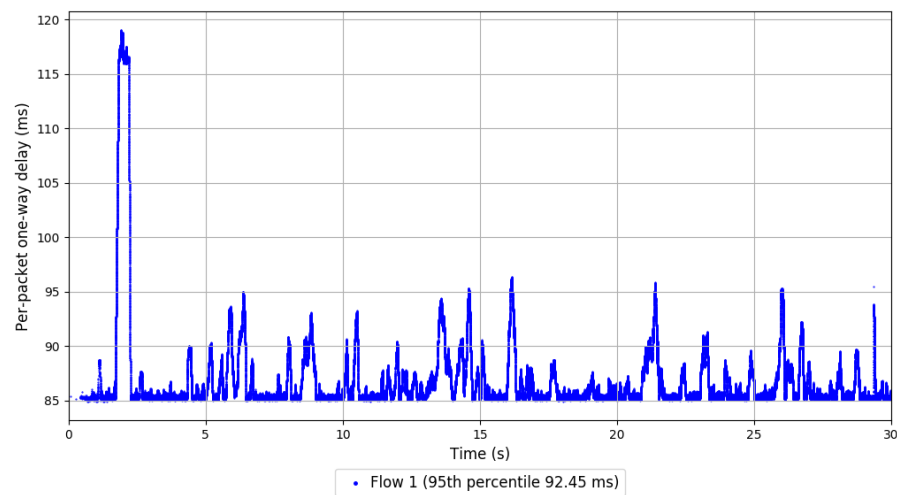
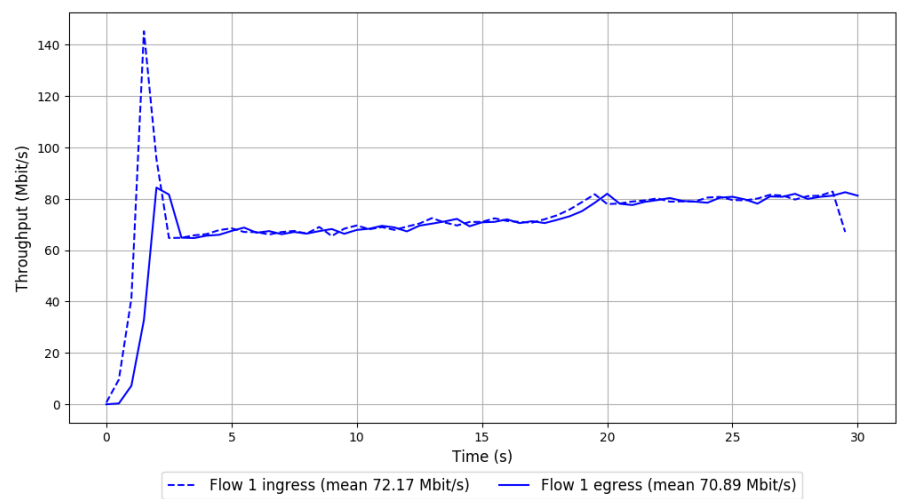
-- Flow 1:

Average throughput: 70.89 Mbit/s

95th percentile per-packet one-way delay: 92.455 ms

Loss rate: 1.78%

Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-08-09 03:22:32

End at: 2018-08-09 03:23:02

Local clock offset: -7.947 ms

Remote clock offset: 6.662 ms

Below is generated by plot.py at 2018-08-09 04:30:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.95 Mbit/s

95th percentile per-packet one-way delay: 93.959 ms

Loss rate: 1.45%

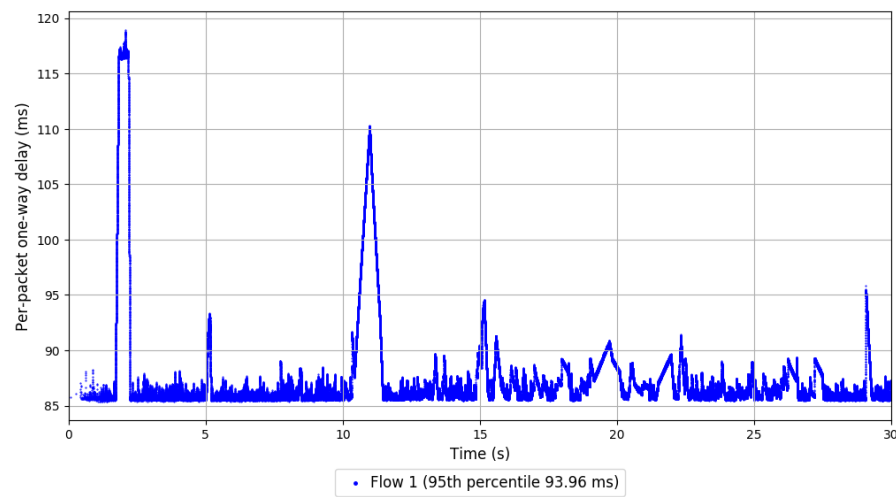
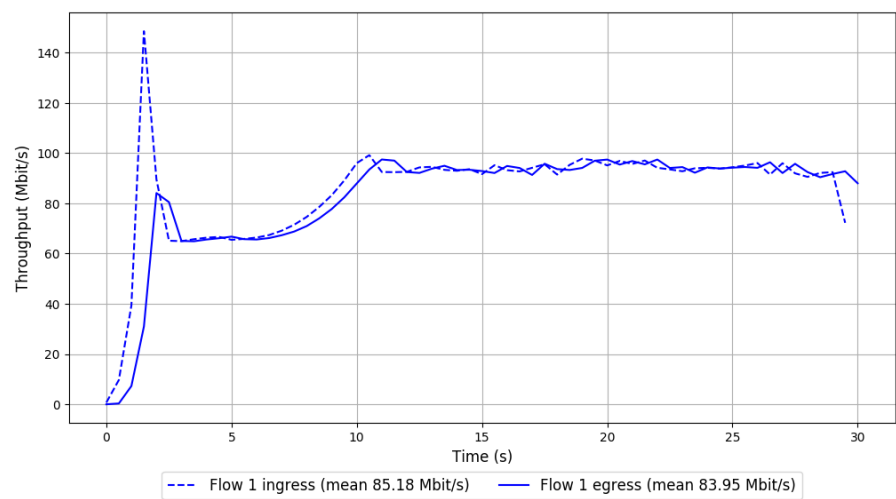
-- Flow 1:

Average throughput: 83.95 Mbit/s

95th percentile per-packet one-way delay: 93.959 ms

Loss rate: 1.45%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-08-09 03:42:24

End at: 2018-08-09 03:42:54

Local clock offset: -8.697 ms

Remote clock offset: 1.356 ms

Below is generated by plot.py at 2018-08-09 04:30:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 81.29 Mbit/s

95th percentile per-packet one-way delay: 98.274 ms

Loss rate: 1.56%

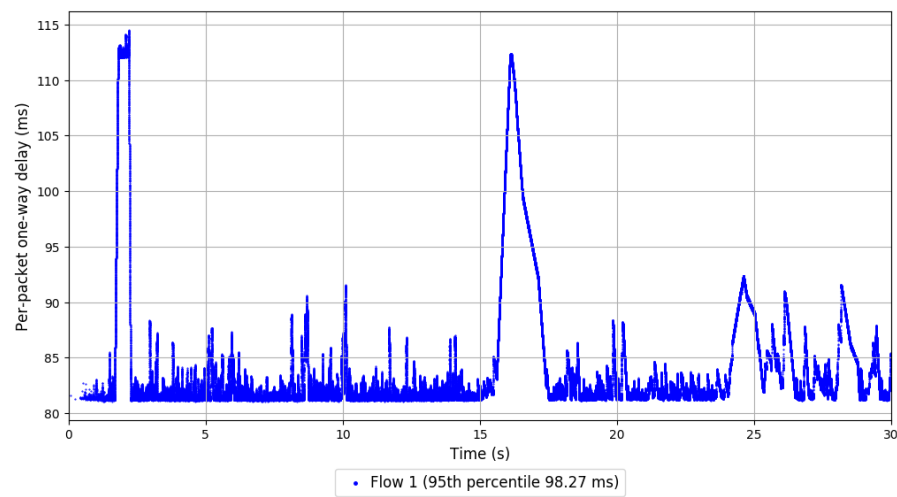
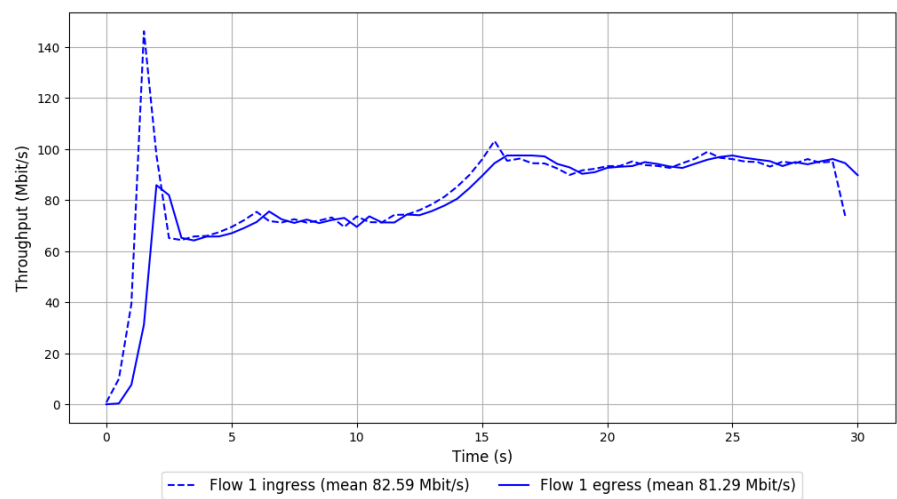
-- Flow 1:

Average throughput: 81.29 Mbit/s

95th percentile per-packet one-way delay: 98.274 ms

Loss rate: 1.56%

Run 9: Report of PCC-Allegro — Data Link

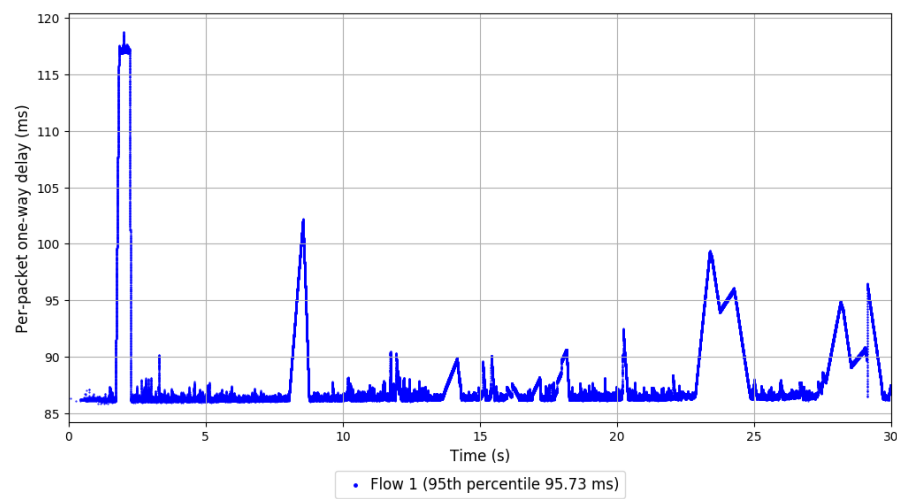
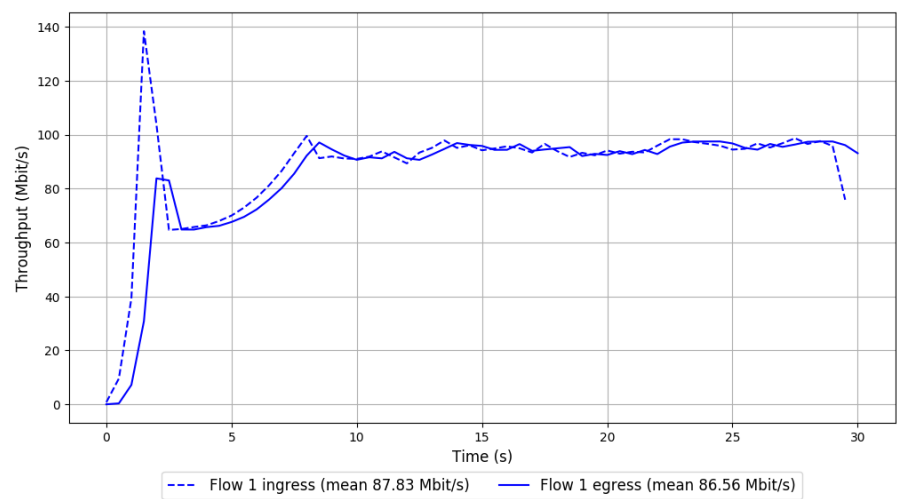


```
Run 10: Statistics of PCC-Allegro

Start at: 2018-08-09 04:02:20
End at: 2018-08-09 04:02:50
Local clock offset: -1.946 ms
Remote clock offset: 3.5 ms

# Below is generated by plot.py at 2018-08-09 04:30:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.56 Mbit/s
95th percentile per-packet one-way delay: 95.733 ms
Loss rate: 1.43%
-- Flow 1:
Average throughput: 86.56 Mbit/s
95th percentile per-packet one-way delay: 95.733 ms
Loss rate: 1.43%
```

Run 10: Report of PCC-Allegro — Data Link

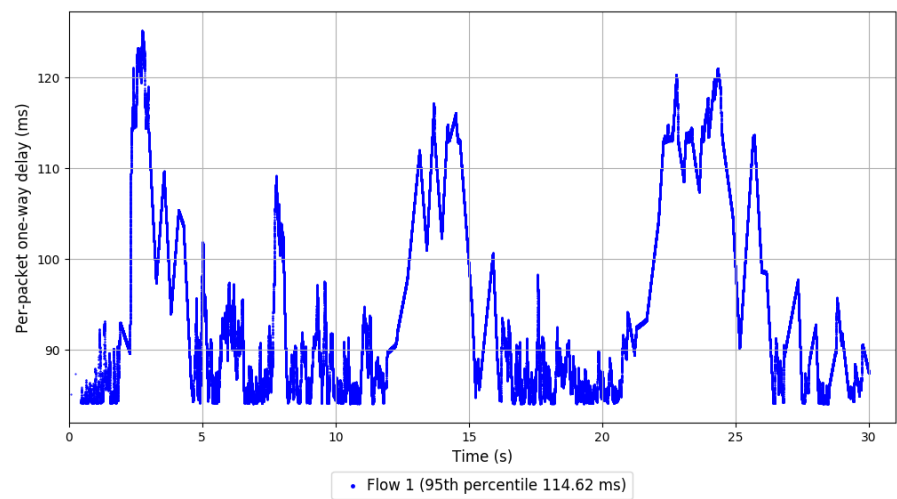
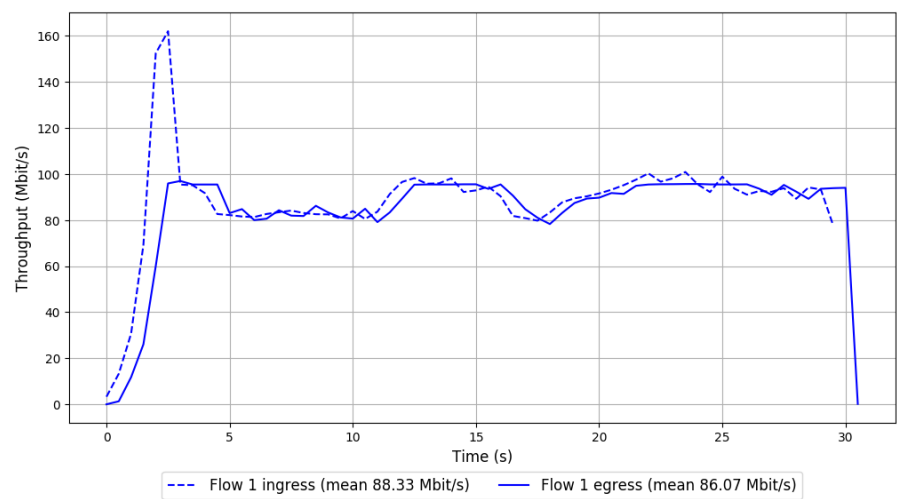


```
Run 1: Statistics of PCC-Expr

Start at: 2018-08-09 01:00:16
End at: 2018-08-09 01:00:46
Local clock offset: -7.458 ms
Remote clock offset: 3.884 ms

# Below is generated by plot.py at 2018-08-09 04:31:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.07 Mbit/s
95th percentile per-packet one-way delay: 114.618 ms
Loss rate: 2.56%
-- Flow 1:
Average throughput: 86.07 Mbit/s
95th percentile per-packet one-way delay: 114.618 ms
Loss rate: 2.56%
```

Run 1: Report of PCC-Expr — Data Link



Run 2: Statistics of PCC-Expr

Start at: 2018-08-09 01:20:13

End at: 2018-08-09 01:20:43

Local clock offset: -8.542 ms

Remote clock offset: 4.074 ms

Below is generated by plot.py at 2018-08-09 04:31:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 34.25 Mbit/s

95th percentile per-packet one-way delay: 116.561 ms

Loss rate: 1.06%

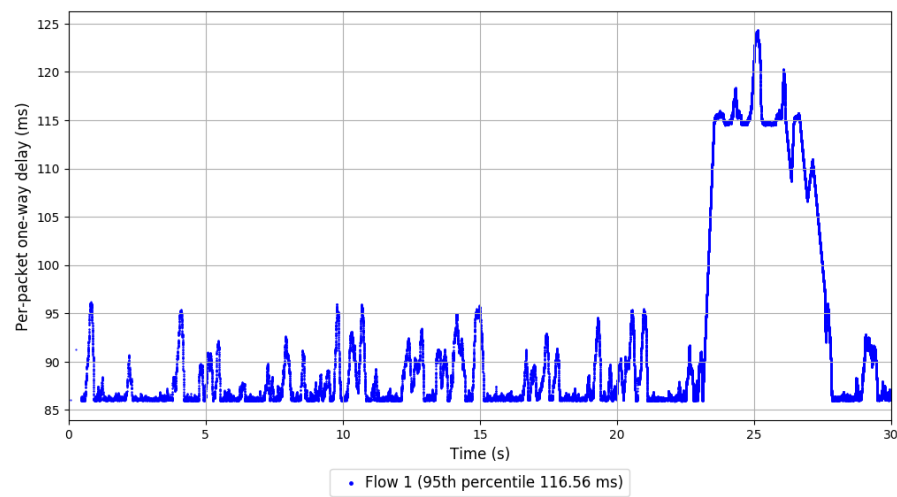
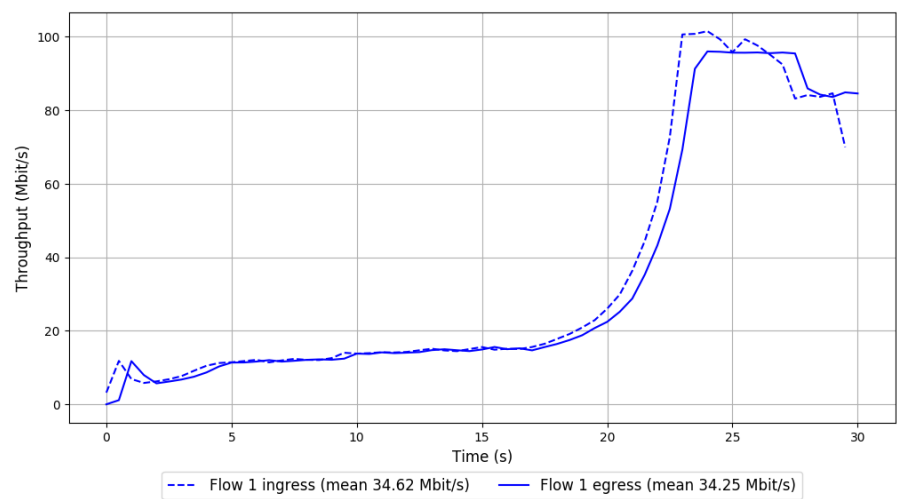
-- Flow 1:

Average throughput: 34.25 Mbit/s

95th percentile per-packet one-way delay: 116.561 ms

Loss rate: 1.06%

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2018-08-09 01:39:50

End at: 2018-08-09 01:40:20

Local clock offset: -8.202 ms

Remote clock offset: 6.538 ms

Below is generated by plot.py at 2018-08-09 04:31:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.80 Mbit/s

95th percentile per-packet one-way delay: 113.901 ms

Loss rate: 2.40%

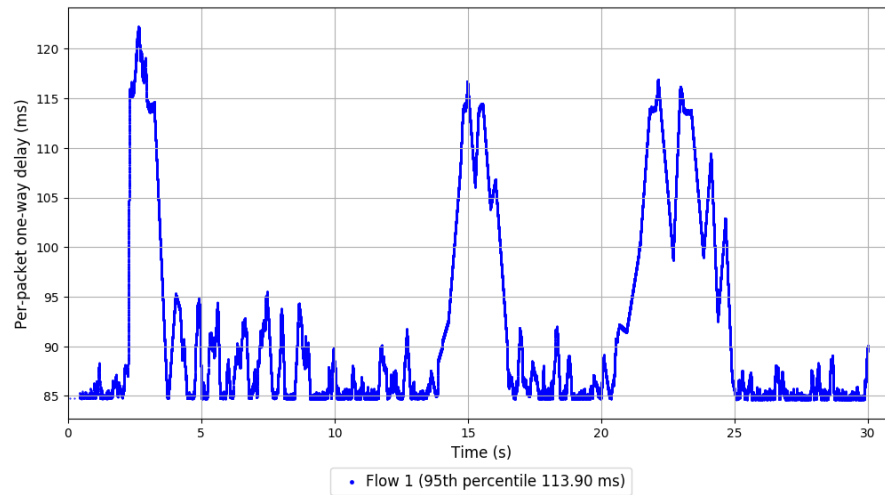
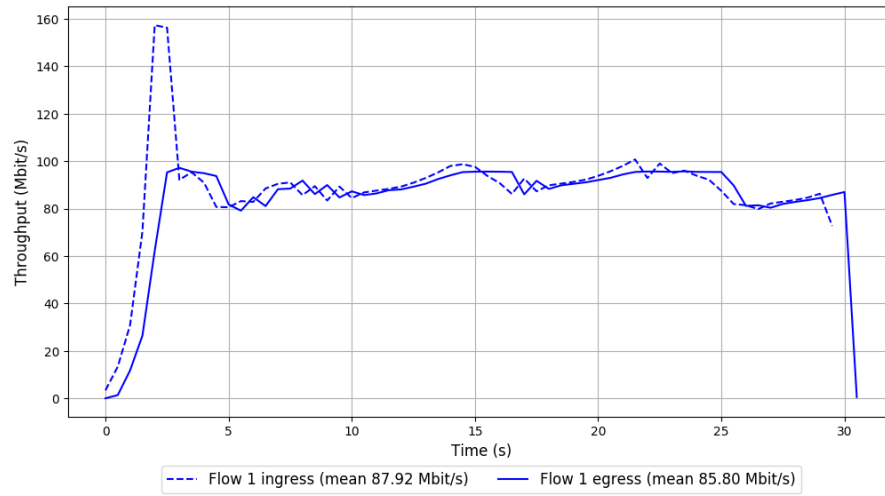
-- Flow 1:

Average throughput: 85.80 Mbit/s

95th percentile per-packet one-way delay: 113.901 ms

Loss rate: 2.40%

Run 3: Report of PCC-Expr — Data Link

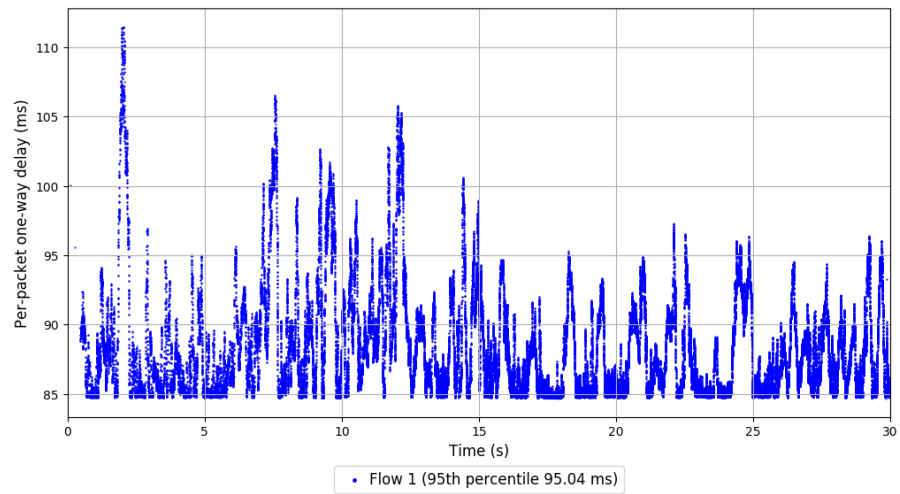
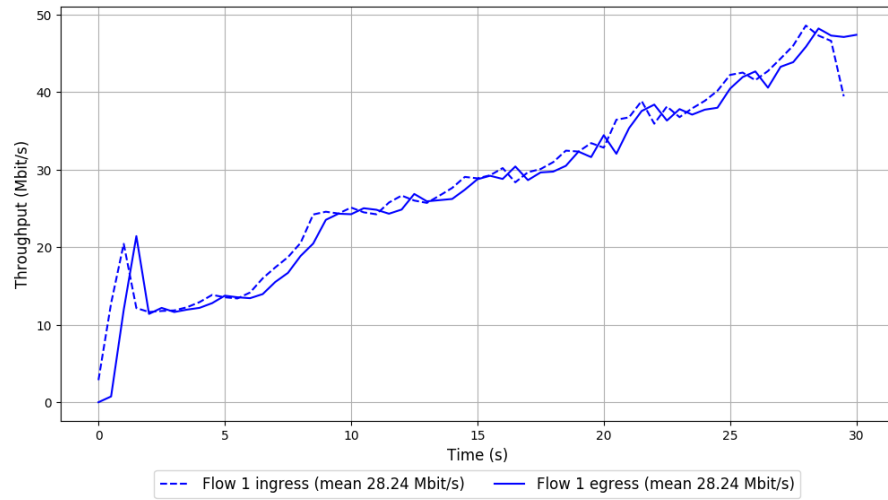


Run 4: Statistics of PCC-Expr

Start at: 2018-08-09 01:59:39
End at: 2018-08-09 02:00:09
Local clock offset: -3.94 ms
Remote clock offset: 10.038 ms

Below is generated by plot.py at 2018-08-09 04:31:20
Datalink statistics
-- Total of 1 flow:
Average throughput: 28.24 Mbit/s
95th percentile per-packet one-way delay: 95.041 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 28.24 Mbit/s
95th percentile per-packet one-way delay: 95.041 ms
Loss rate: 0.07%

Run 4: Report of PCC-Expr — Data Link

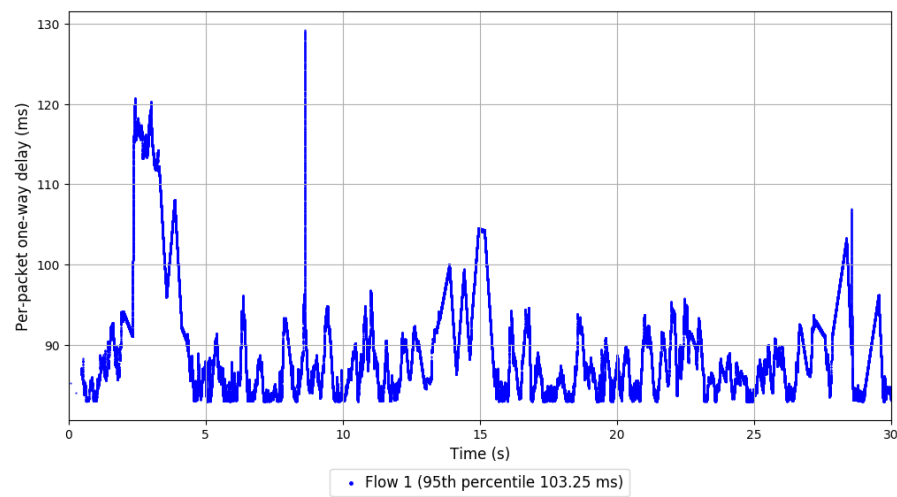
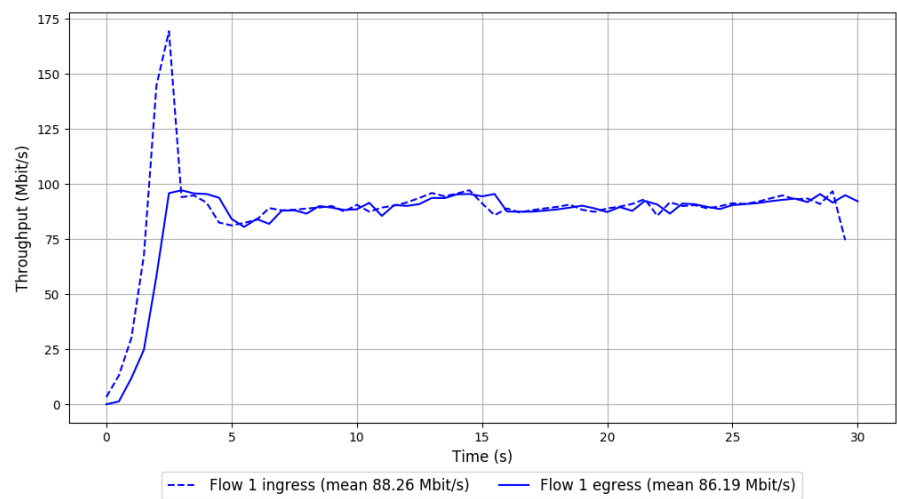


Run 5: Statistics of PCC-Expr

Start at: 2018-08-09 02:19:16
End at: 2018-08-09 02:19:46
Local clock offset: -2.635 ms
Remote clock offset: 10.588 ms

Below is generated by plot.py at 2018-08-09 04:31:53
Datalink statistics
-- Total of 1 flow:
Average throughput: 86.19 Mbit/s
95th percentile per-packet one-way delay: 103.252 ms
Loss rate: 2.35%
-- Flow 1:
Average throughput: 86.19 Mbit/s
95th percentile per-packet one-way delay: 103.252 ms
Loss rate: 2.35%

Run 5: Report of PCC-Expr — Data Link

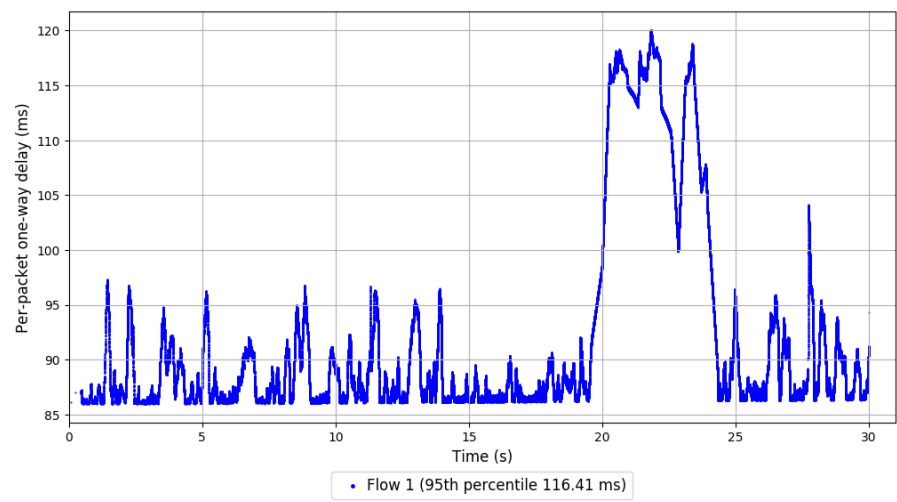
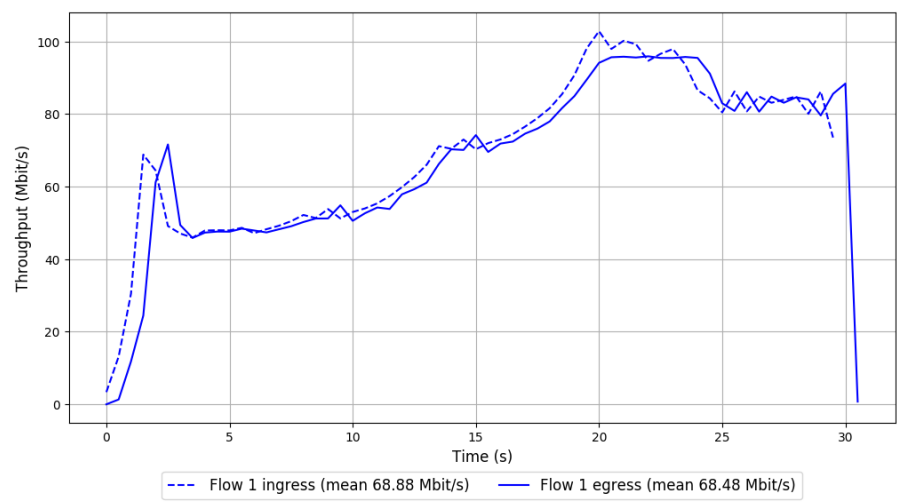


Run 6: Statistics of PCC-Expr

Start at: 2018-08-09 02:39:03
End at: 2018-08-09 02:39:33
Local clock offset: -2.489 ms
Remote clock offset: 11.196 ms

Below is generated by plot.py at 2018-08-09 04:31:53
Datalink statistics
-- Total of 1 flow:
Average throughput: 68.48 Mbit/s
95th percentile per-packet one-way delay: 116.406 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 68.48 Mbit/s
95th percentile per-packet one-way delay: 116.406 ms
Loss rate: 0.56%

Run 6: Report of PCC-Expr — Data Link



Run 7: Statistics of PCC-Expr

Start at: 2018-08-09 02:58:55

End at: 2018-08-09 02:59:25

Local clock offset: -6.291 ms

Remote clock offset: 4.135 ms

Below is generated by plot.py at 2018-08-09 04:32:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.72 Mbit/s

95th percentile per-packet one-way delay: 120.736 ms

Loss rate: 2.76%

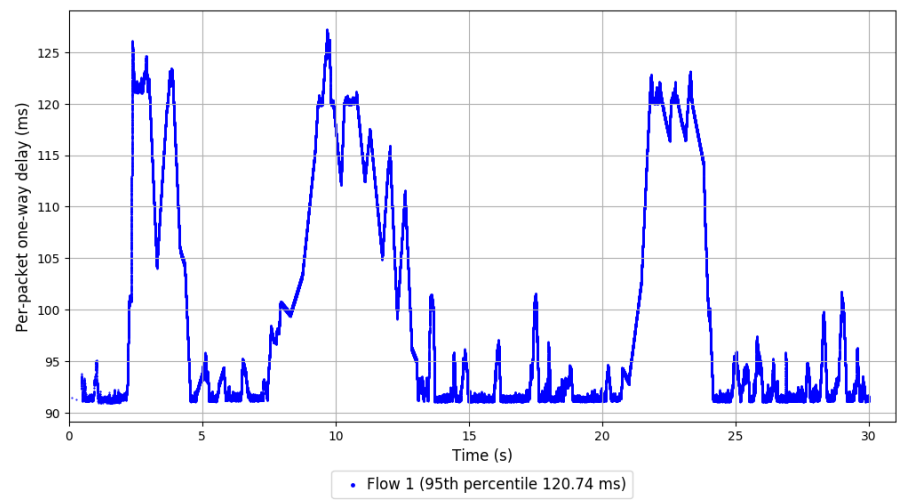
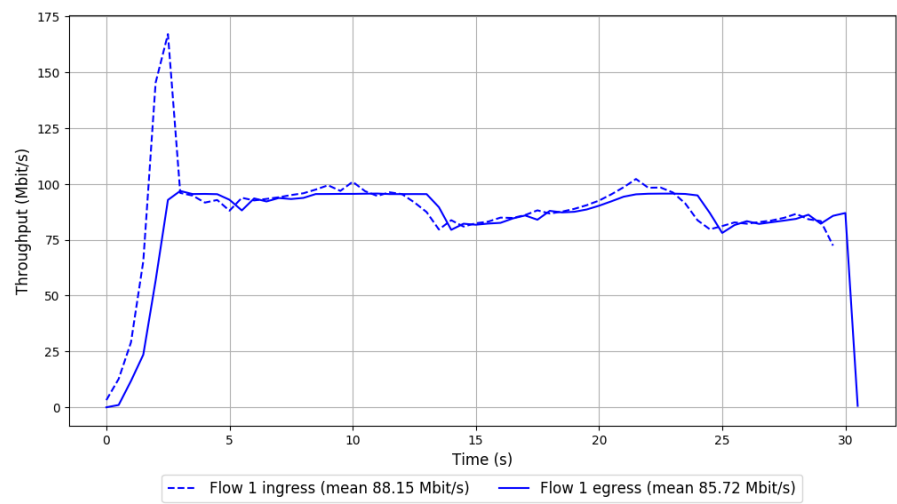
-- Flow 1:

Average throughput: 85.72 Mbit/s

95th percentile per-packet one-way delay: 120.736 ms

Loss rate: 2.76%

Run 7: Report of PCC-Expr — Data Link



Run 8: Statistics of PCC-Expr

Start at: 2018-08-09 03:18:57

End at: 2018-08-09 03:19:27

Local clock offset: -7.852 ms

Remote clock offset: 3.961 ms

Below is generated by plot.py at 2018-08-09 04:32:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.64 Mbit/s

95th percentile per-packet one-way delay: 120.022 ms

Loss rate: 2.74%

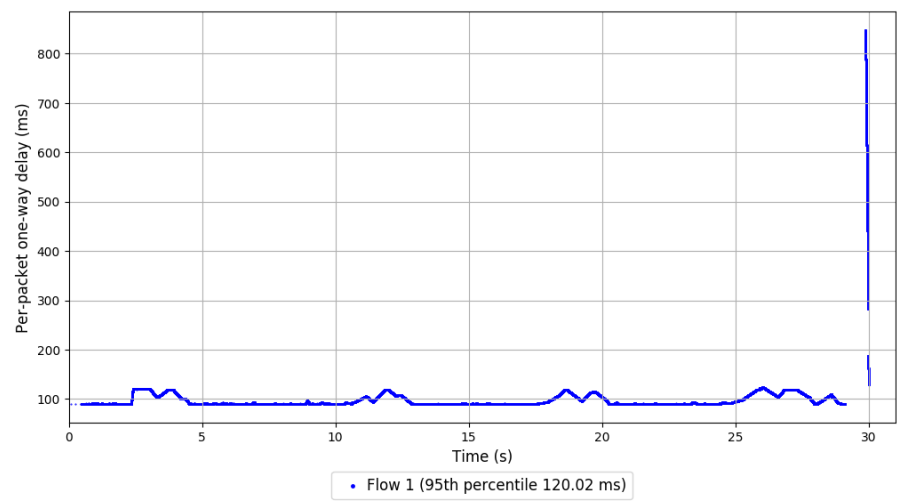
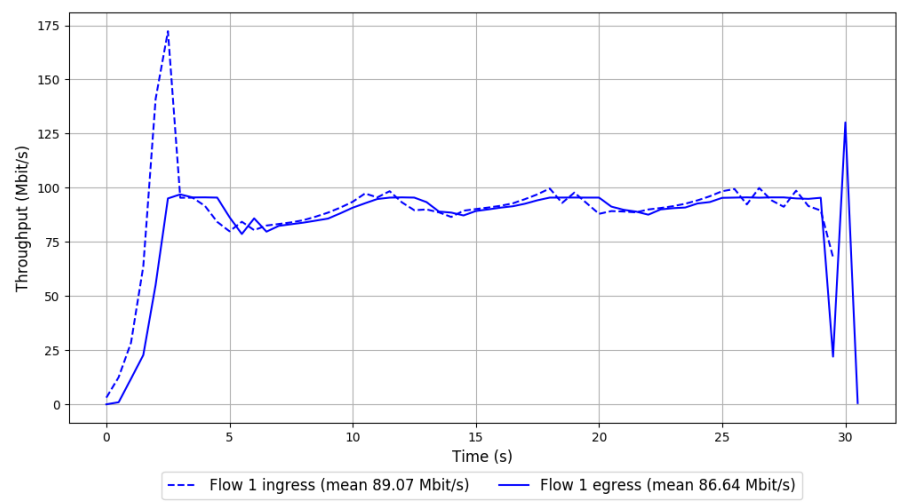
-- Flow 1:

Average throughput: 86.64 Mbit/s

95th percentile per-packet one-way delay: 120.022 ms

Loss rate: 2.74%

Run 8: Report of PCC-Expr — Data Link



Run 9: Statistics of PCC-Expr

Start at: 2018-08-09 03:38:51

End at: 2018-08-09 03:39:21

Local clock offset: -8.544 ms

Remote clock offset: 4.9 ms

Below is generated by plot.py at 2018-08-09 04:32:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.03 Mbit/s

95th percentile per-packet one-way delay: 114.146 ms

Loss rate: 2.68%

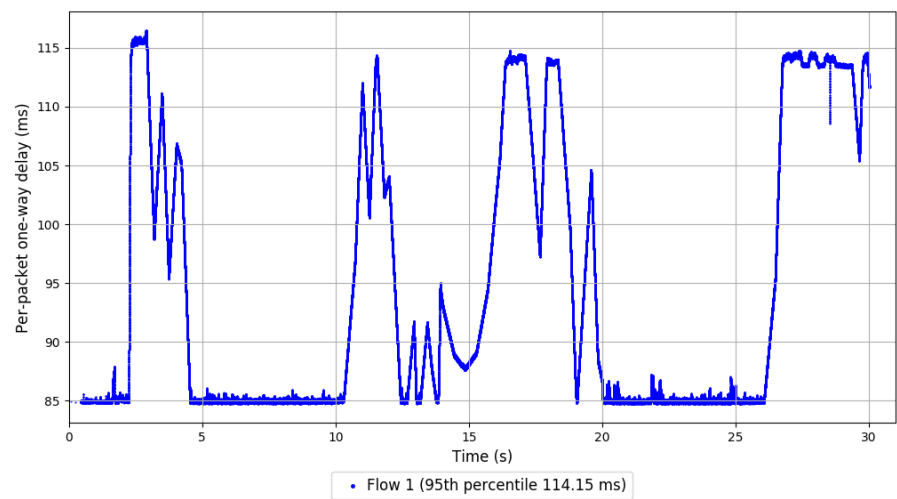
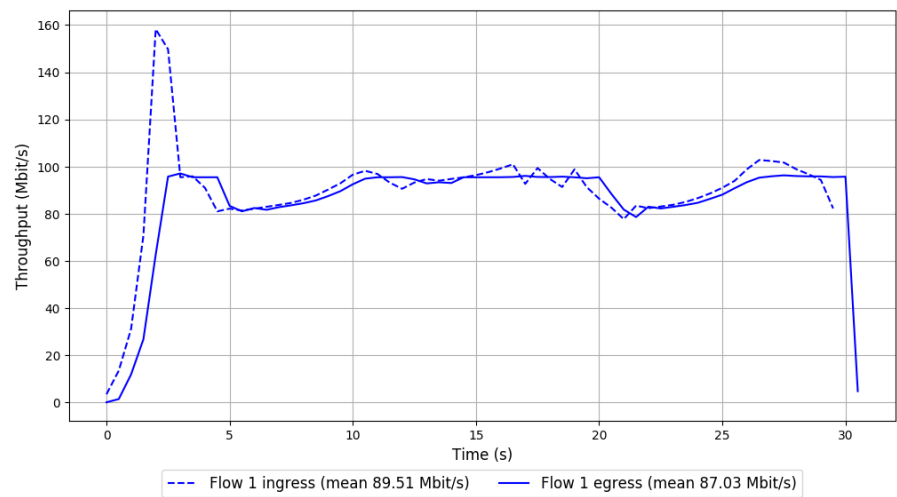
-- Flow 1:

Average throughput: 87.03 Mbit/s

95th percentile per-packet one-way delay: 114.146 ms

Loss rate: 2.68%

Run 9: Report of PCC-Expr — Data Link



Run 10: Statistics of PCC-Expr

Start at: 2018-08-09 03:58:46

End at: 2018-08-09 03:59:16

Local clock offset: -2.648 ms

Remote clock offset: 0.036 ms

Below is generated by plot.py at 2018-08-09 04:32:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.60 Mbit/s

95th percentile per-packet one-way delay: 113.215 ms

Loss rate: 2.50%

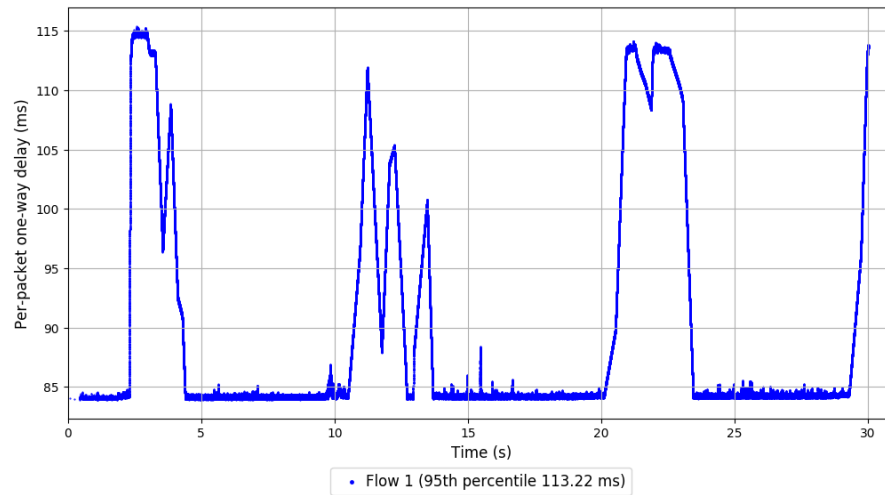
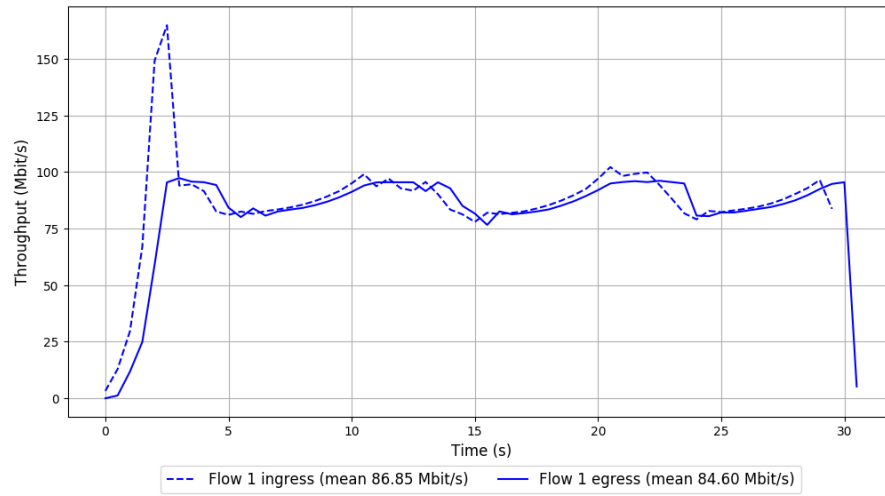
-- Flow 1:

Average throughput: 84.60 Mbit/s

95th percentile per-packet one-way delay: 113.215 ms

Loss rate: 2.50%

Run 10: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2018-08-09 01:12:07

End at: 2018-08-09 01:12:37

Local clock offset: -9.032 ms

Remote clock offset: 0.265 ms

Below is generated by plot.py at 2018-08-09 04:32:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.65 Mbit/s

95th percentile per-packet one-way delay: 89.024 ms

Loss rate: 0.60%

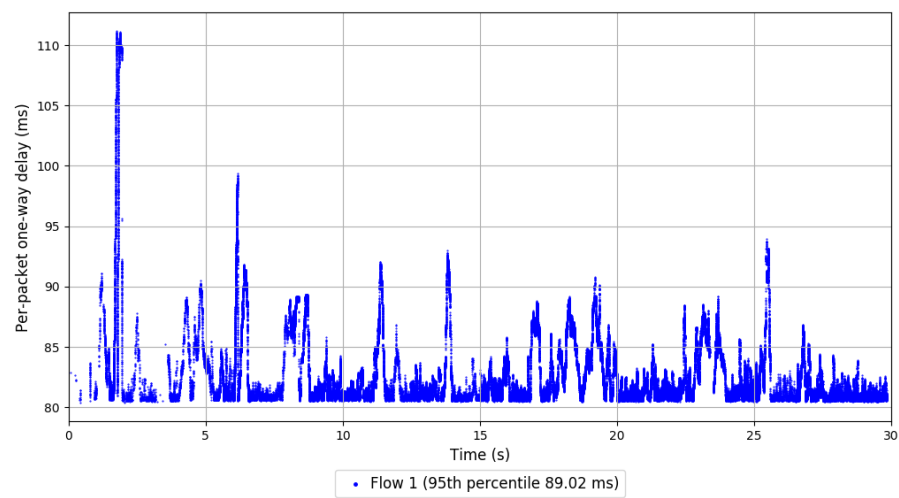
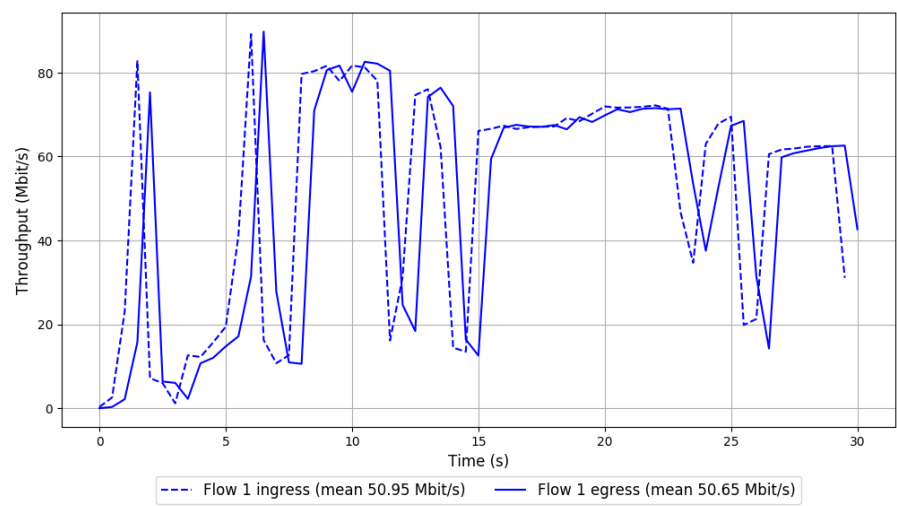
-- Flow 1:

Average throughput: 50.65 Mbit/s

95th percentile per-packet one-way delay: 89.024 ms

Loss rate: 0.60%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-08-09 01:31:46

End at: 2018-08-09 01:32:16

Local clock offset: -7.975 ms

Remote clock offset: 5.415 ms

Below is generated by plot.py at 2018-08-09 04:32:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 44.15 Mbit/s

95th percentile per-packet one-way delay: 94.353 ms

Loss rate: 0.78%

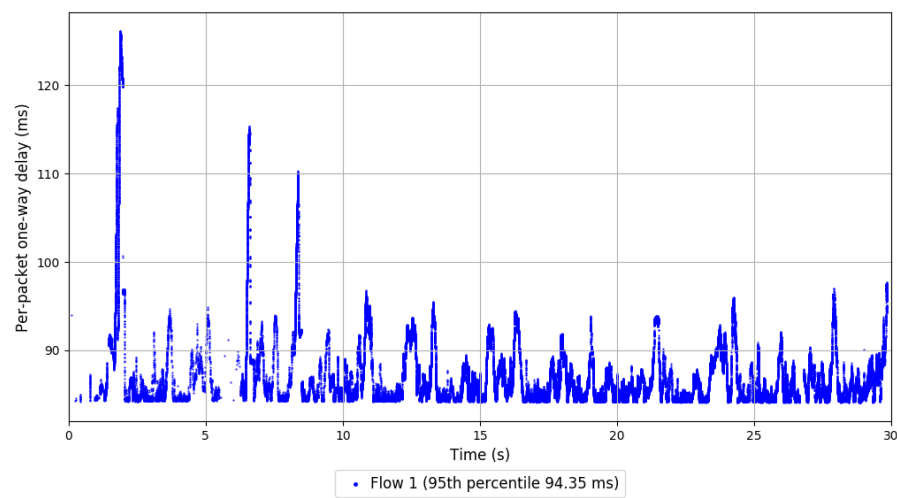
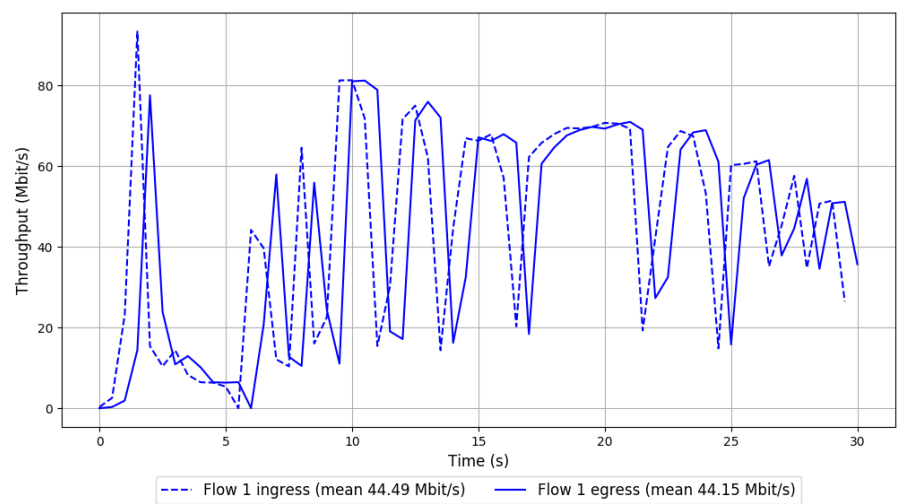
-- Flow 1:

Average throughput: 44.15 Mbit/s

95th percentile per-packet one-way delay: 94.353 ms

Loss rate: 0.78%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-08-09 01:51:34

End at: 2018-08-09 01:52:04

Local clock offset: -5.729 ms

Remote clock offset: 5.526 ms

Below is generated by plot.py at 2018-08-09 04:32:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 51.28 Mbit/s

95th percentile per-packet one-way delay: 91.128 ms

Loss rate: 0.60%

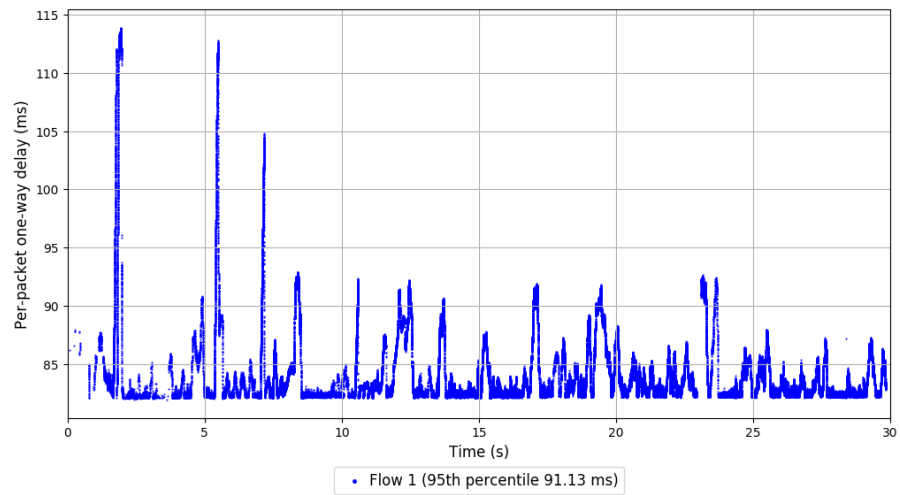
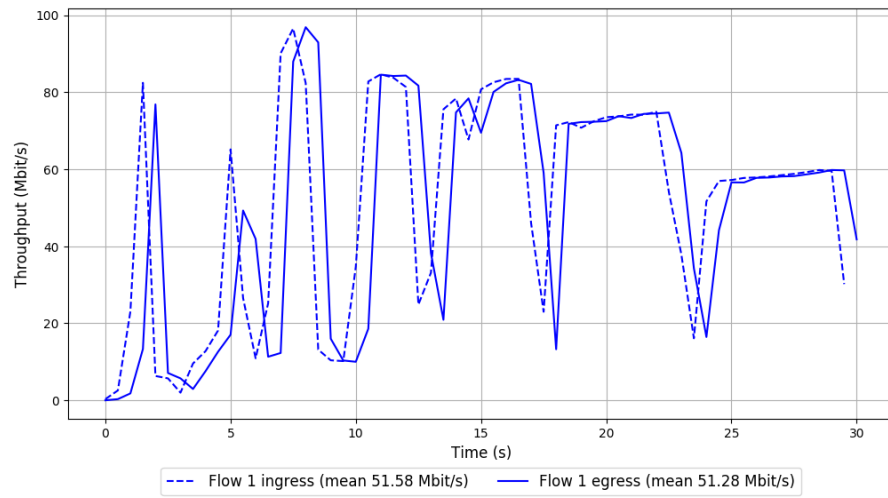
-- Flow 1:

Average throughput: 51.28 Mbit/s

95th percentile per-packet one-way delay: 91.128 ms

Loss rate: 0.60%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-08-09 02:11:12

End at: 2018-08-09 02:11:42

Local clock offset: -2.892 ms

Remote clock offset: 11.134 ms

Below is generated by plot.py at 2018-08-09 04:32:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 35.83 Mbit/s

95th percentile per-packet one-way delay: 101.520 ms

Loss rate: 0.82%

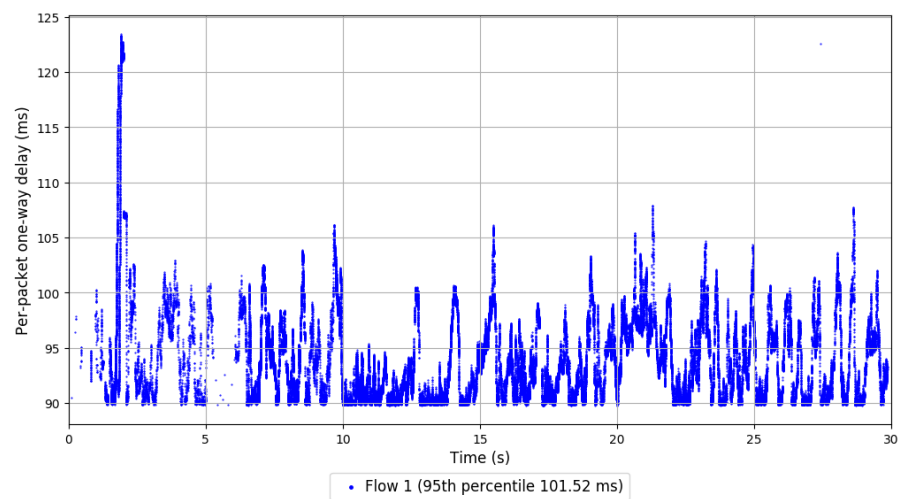
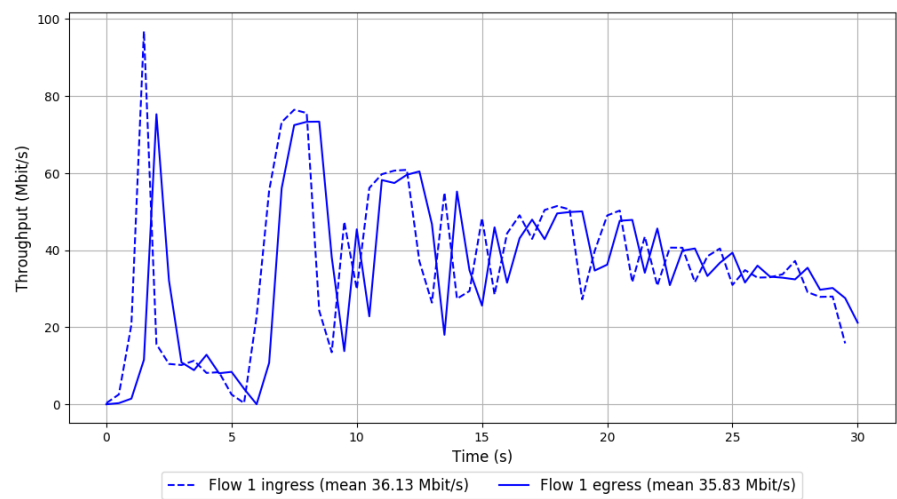
-- Flow 1:

Average throughput: 35.83 Mbit/s

95th percentile per-packet one-way delay: 101.520 ms

Loss rate: 0.82%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-08-09 02:30:57

End at: 2018-08-09 02:31:27

Local clock offset: -2.666 ms

Remote clock offset: 8.701 ms

Below is generated by plot.py at 2018-08-09 04:32:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 44.91 Mbit/s

95th percentile per-packet one-way delay: 90.388 ms

Loss rate: 0.05%

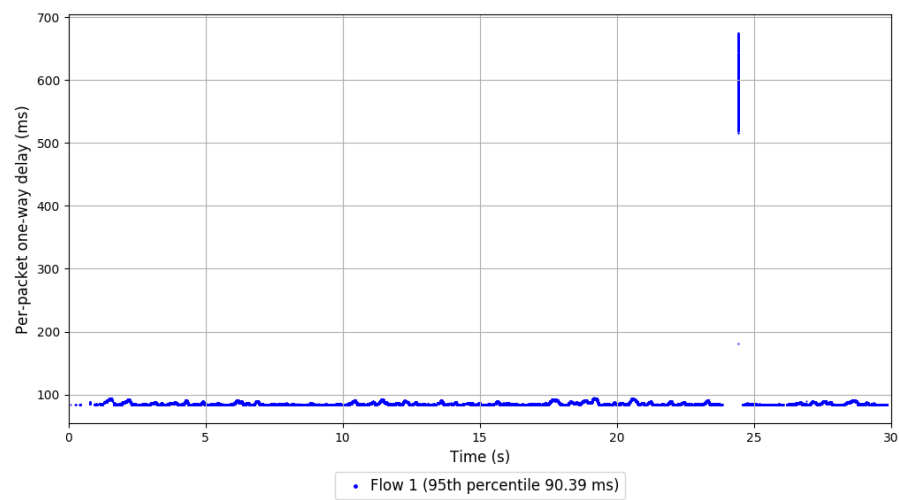
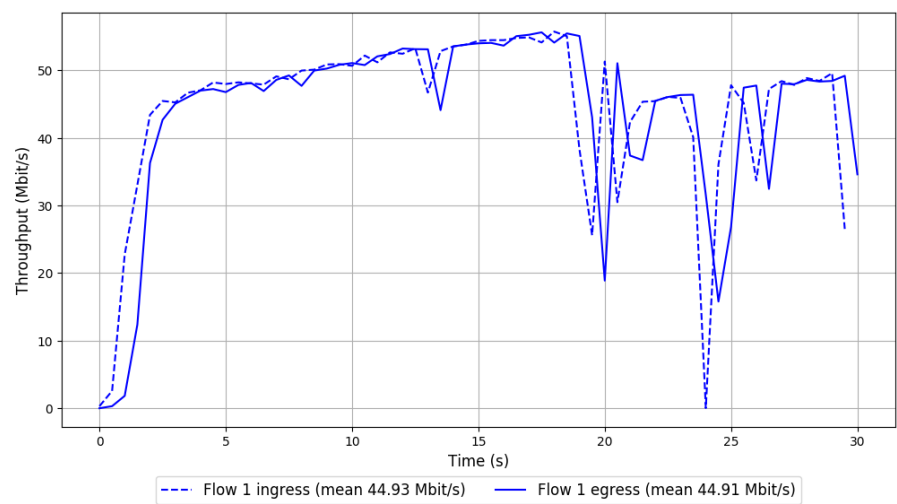
-- Flow 1:

Average throughput: 44.91 Mbit/s

95th percentile per-packet one-way delay: 90.388 ms

Loss rate: 0.05%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-08-09 02:50:49

End at: 2018-08-09 02:51:19

Local clock offset: -4.545 ms

Remote clock offset: 1.9 ms

Below is generated by plot.py at 2018-08-09 04:32:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 53.49 Mbit/s

95th percentile per-packet one-way delay: 94.381 ms

Loss rate: 0.53%

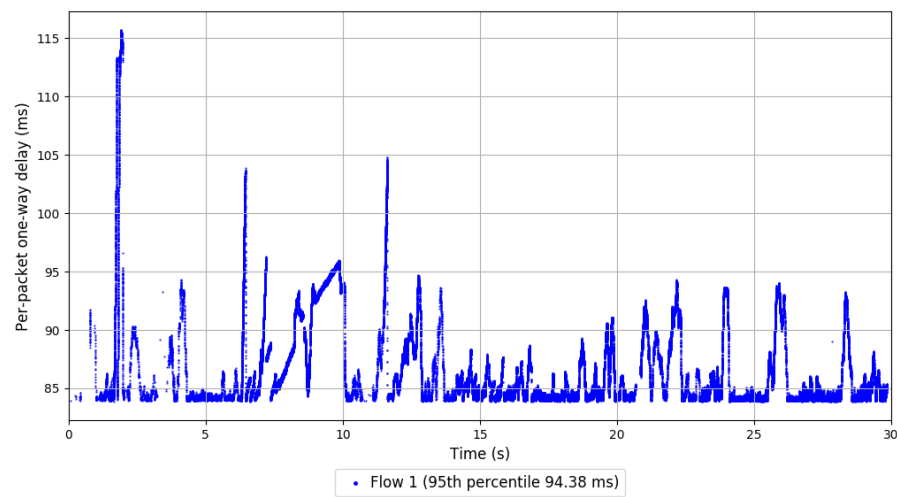
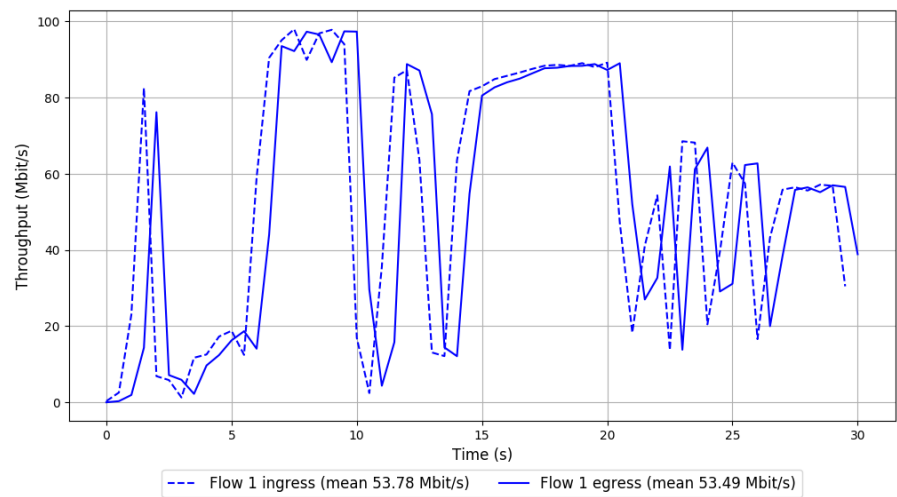
-- Flow 1:

Average throughput: 53.49 Mbit/s

95th percentile per-packet one-way delay: 94.381 ms

Loss rate: 0.53%

Run 6: Report of QUIC Cubic — Data Link

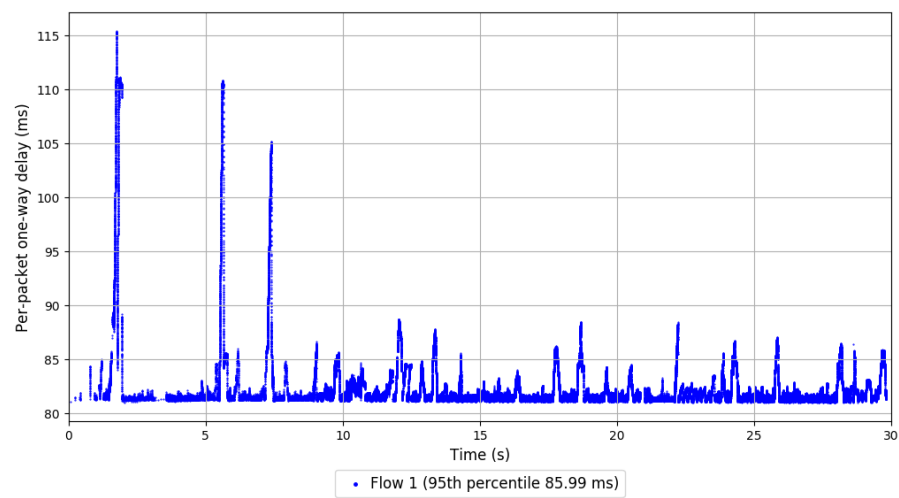
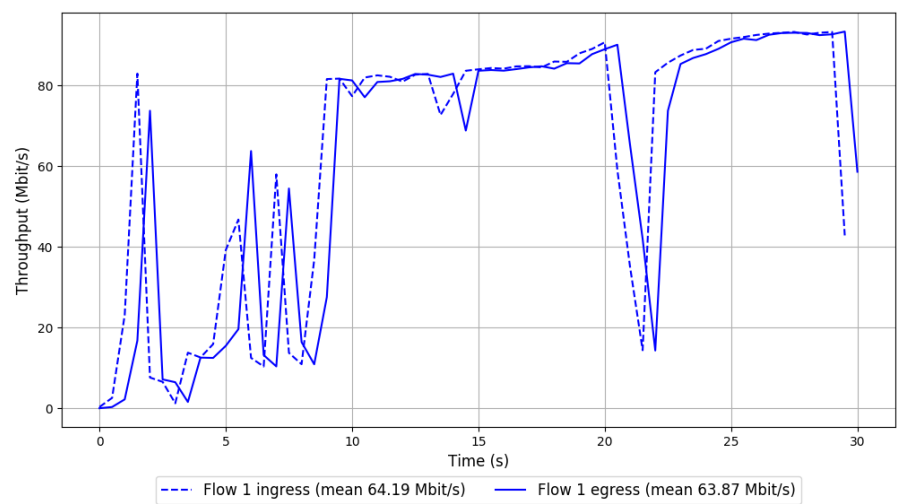


Run 7: Statistics of QUIC Cubic

Start at: 2018-08-09 03:10:51
End at: 2018-08-09 03:11:21
Local clock offset: -7.516 ms
Remote clock offset: -1.911 ms

Below is generated by plot.py at 2018-08-09 04:32:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 63.87 Mbit/s
95th percentile per-packet one-way delay: 85.986 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 63.87 Mbit/s
95th percentile per-packet one-way delay: 85.986 ms
Loss rate: 0.50%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-08-09 03:30:46

End at: 2018-08-09 03:31:16

Local clock offset: -8.278 ms

Remote clock offset: 4.924 ms

Below is generated by plot.py at 2018-08-09 04:33:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.16 Mbit/s

95th percentile per-packet one-way delay: 113.591 ms

Loss rate: 0.35%

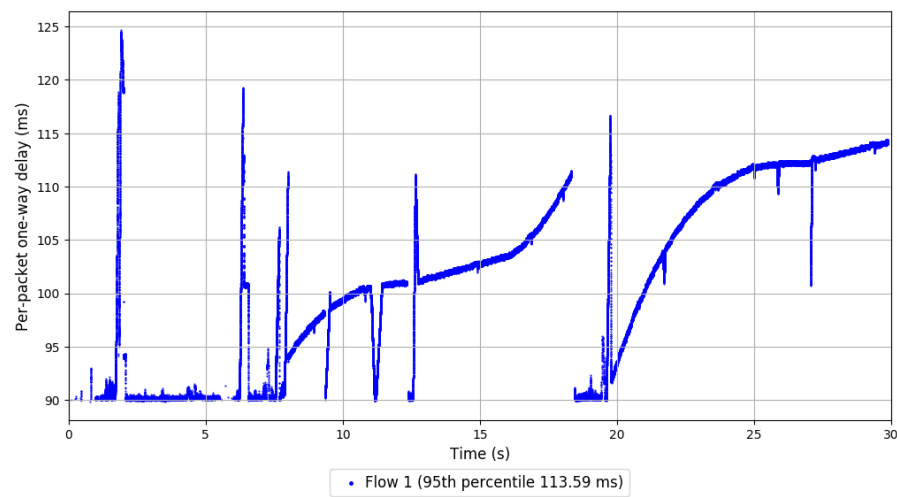
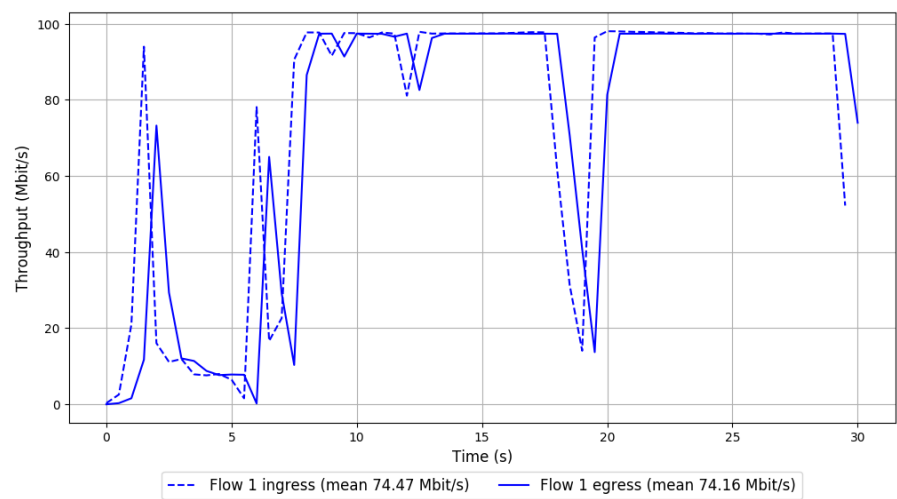
-- Flow 1:

Average throughput: 74.16 Mbit/s

95th percentile per-packet one-way delay: 113.591 ms

Loss rate: 0.35%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-08-09 03:50:40

End at: 2018-08-09 03:51:10

Local clock offset: -5.575 ms

Remote clock offset: 5.929 ms

Below is generated by plot.py at 2018-08-09 04:33:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.12 Mbit/s

95th percentile per-packet one-way delay: 112.392 ms

Loss rate: 0.39%

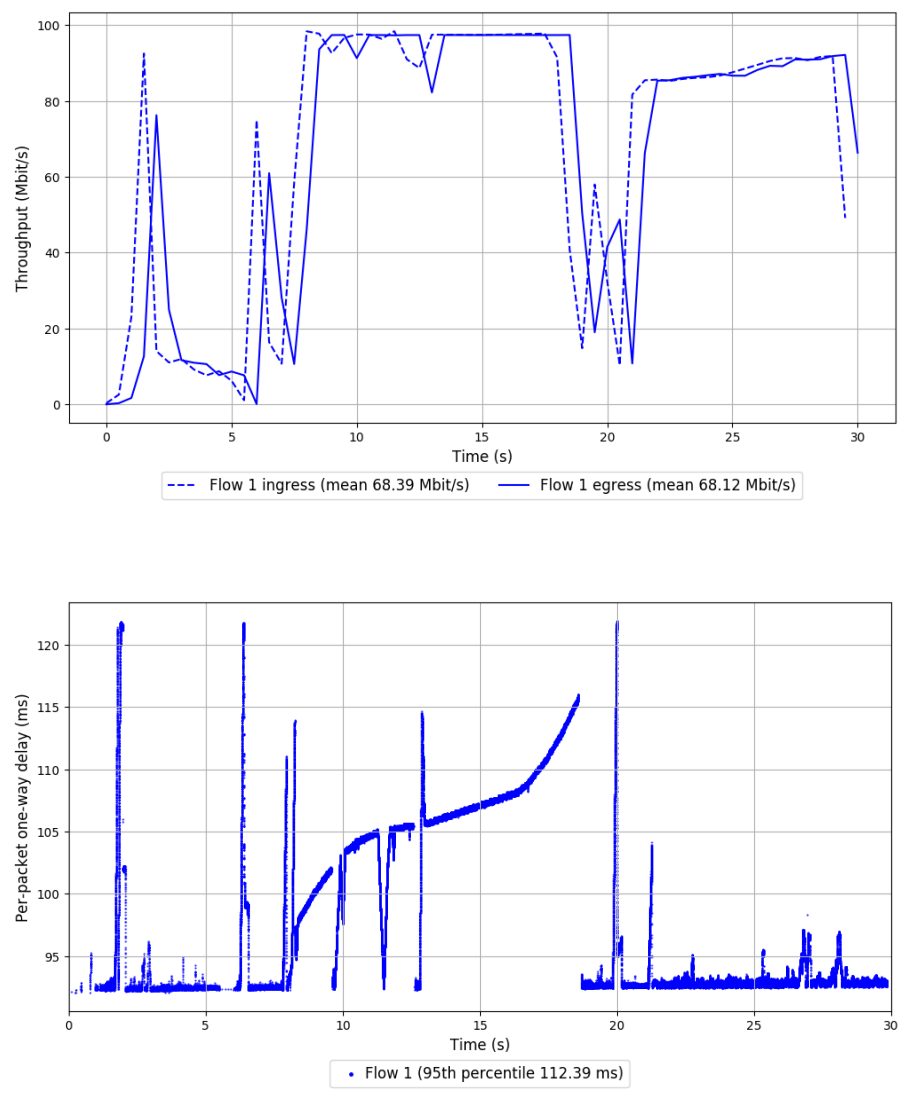
-- Flow 1:

Average throughput: 68.12 Mbit/s

95th percentile per-packet one-way delay: 112.392 ms

Loss rate: 0.39%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-08-09 04:10:33

End at: 2018-08-09 04:11:03

Local clock offset: -0.793 ms

Remote clock offset: 3.901 ms

Below is generated by plot.py at 2018-08-09 04:33:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.62 Mbit/s

95th percentile per-packet one-way delay: 109.872 ms

Loss rate: 0.38%

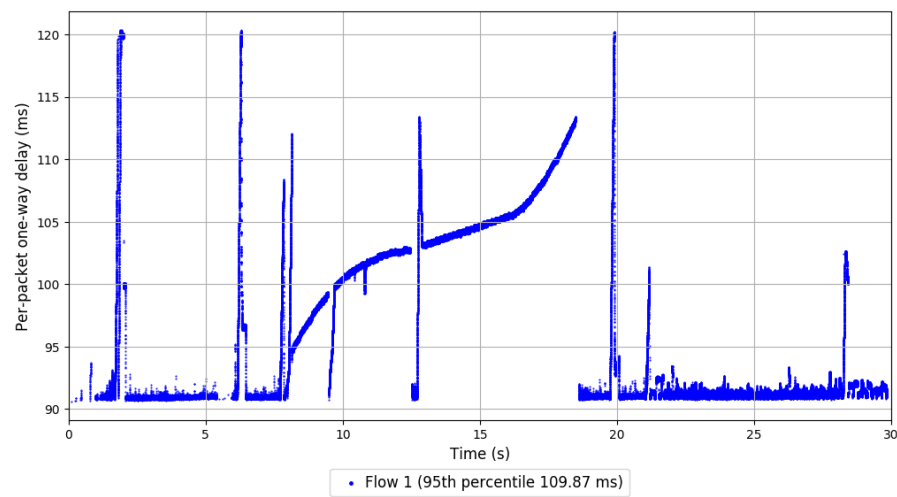
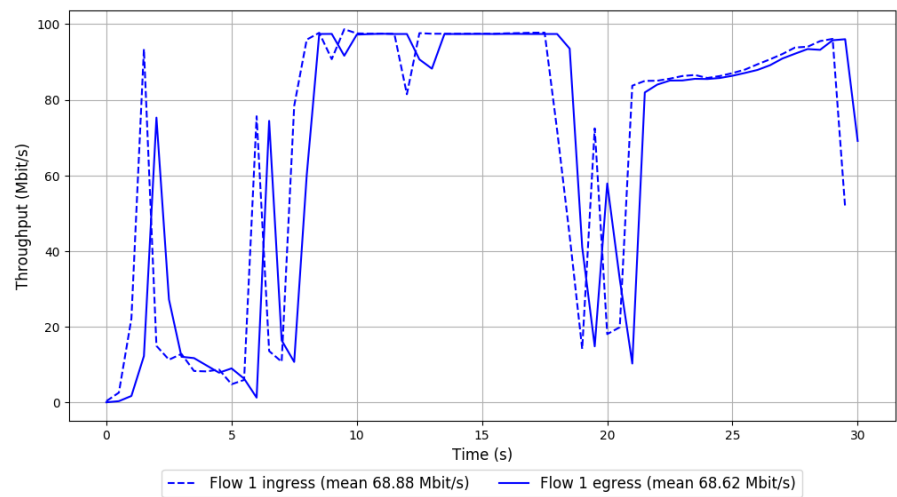
-- Flow 1:

Average throughput: 68.62 Mbit/s

95th percentile per-packet one-way delay: 109.872 ms

Loss rate: 0.38%

Run 10: Report of QUIC Cubic — Data Link

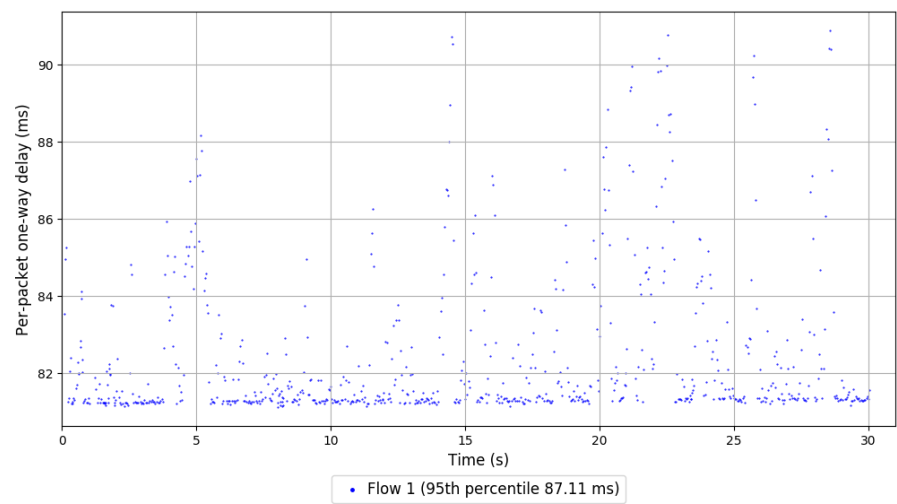
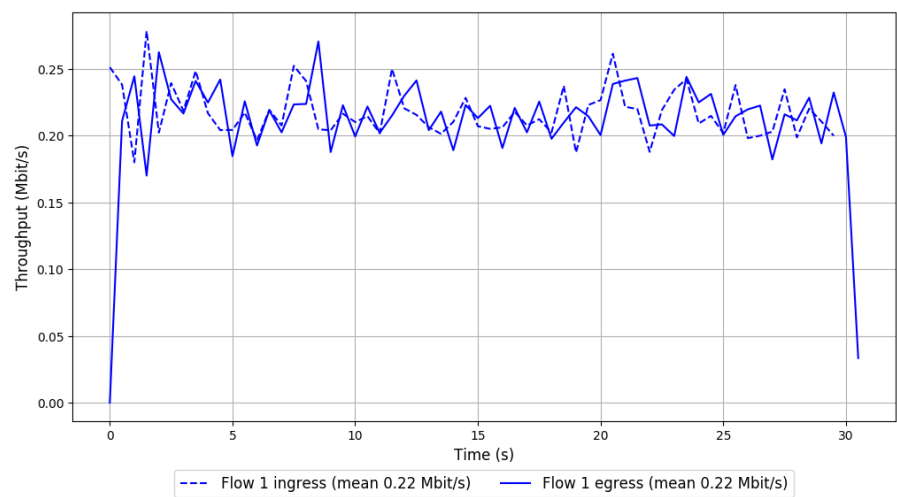


```
Run 1: Statistics of SCReAM

Start at: 2018-08-09 01:17:59
End at: 2018-08-09 01:18:29
Local clock offset: -8.887 ms
Remote clock offset: -0.909 ms

# Below is generated by plot.py at 2018-08-09 04:33:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.109 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.109 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2018-08-09 01:37:37

End at: 2018-08-09 01:38:07

Local clock offset: -8.168 ms

Remote clock offset: 2.325 ms

Below is generated by plot.py at 2018-08-09 04:33:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 87.737 ms

Loss rate: 0.13%

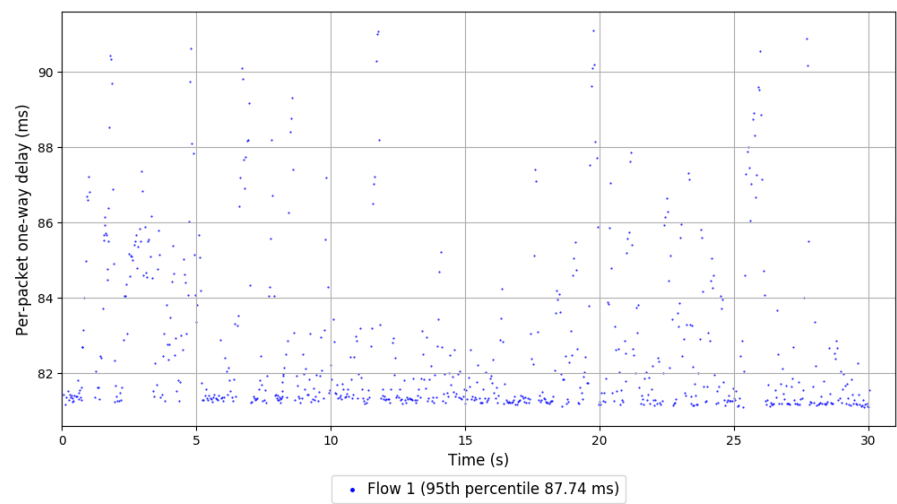
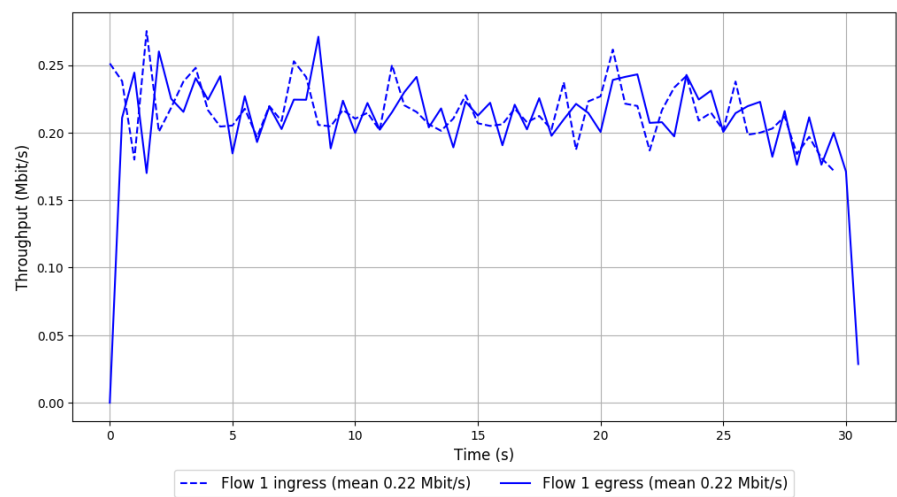
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 87.737 ms

Loss rate: 0.13%

Run 2: Report of SReAM — Data Link

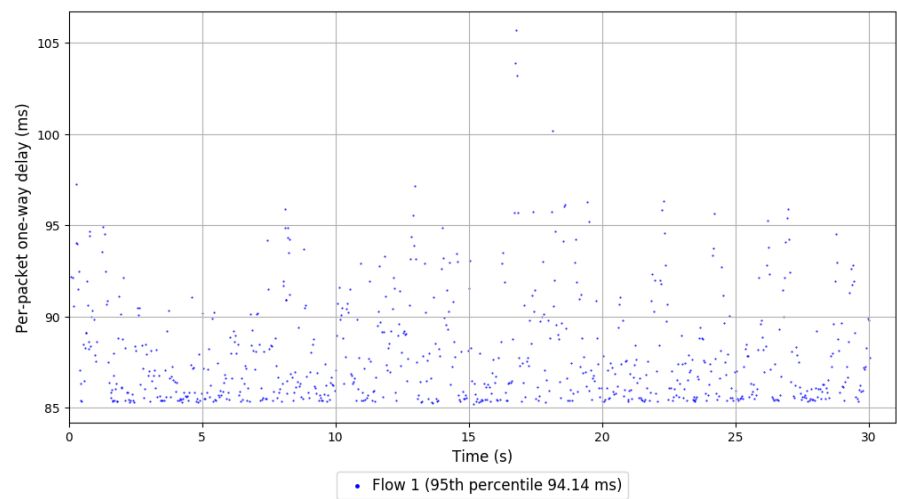
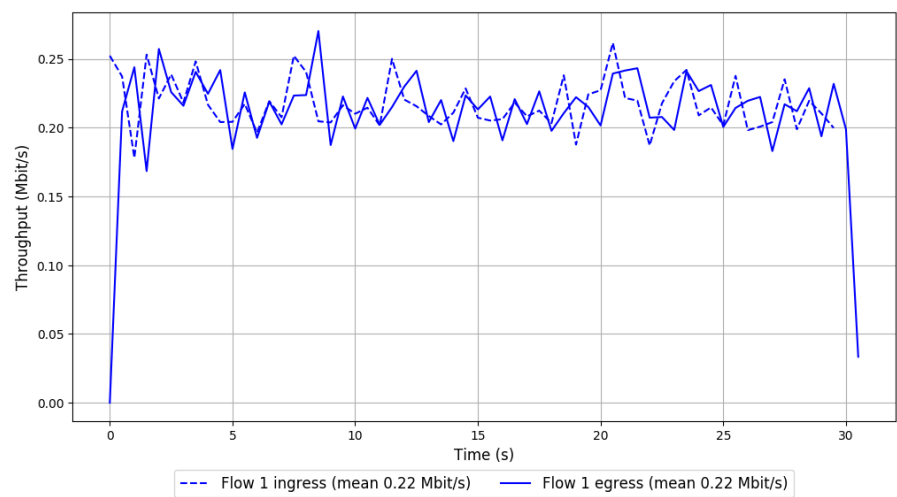


Run 3: Statistics of SCReAM

Start at: 2018-08-09 01:57:26
End at: 2018-08-09 01:57:56
Local clock offset: -4.205 ms
Remote clock offset: 10.988 ms

Below is generated by plot.py at 2018-08-09 04:33:17
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 94.135 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 94.135 ms
Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2018-08-09 02:17:02

End at: 2018-08-09 02:17:32

Local clock offset: -2.604 ms

Remote clock offset: 7.657 ms

Below is generated by plot.py at 2018-08-09 04:33:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 88.777 ms

Loss rate: 0.26%

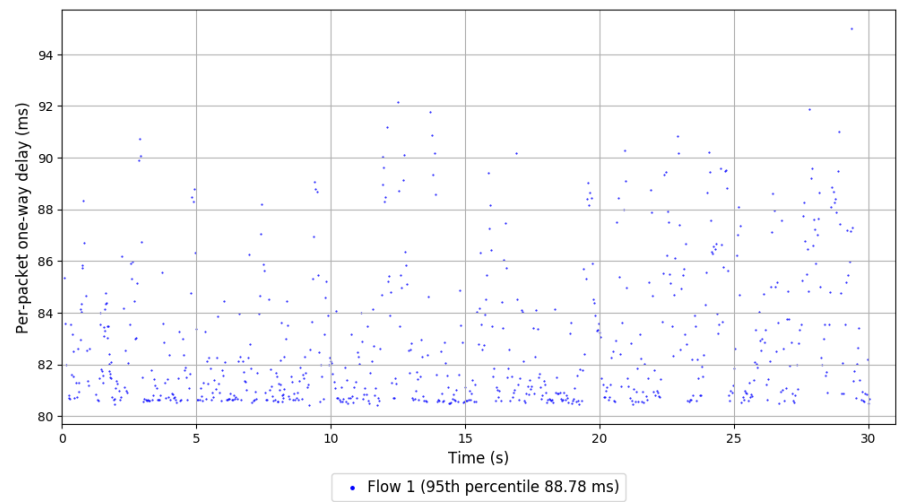
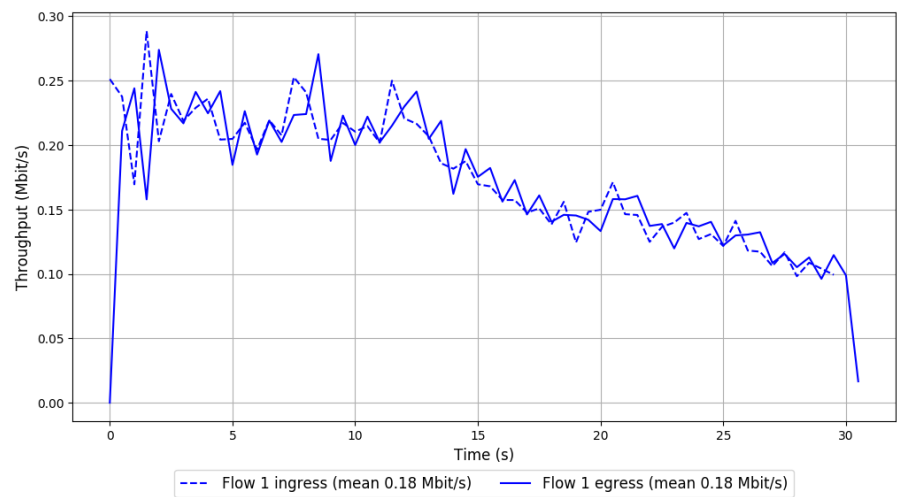
-- Flow 1:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 88.777 ms

Loss rate: 0.26%

Run 4: Report of SReAM — Data Link

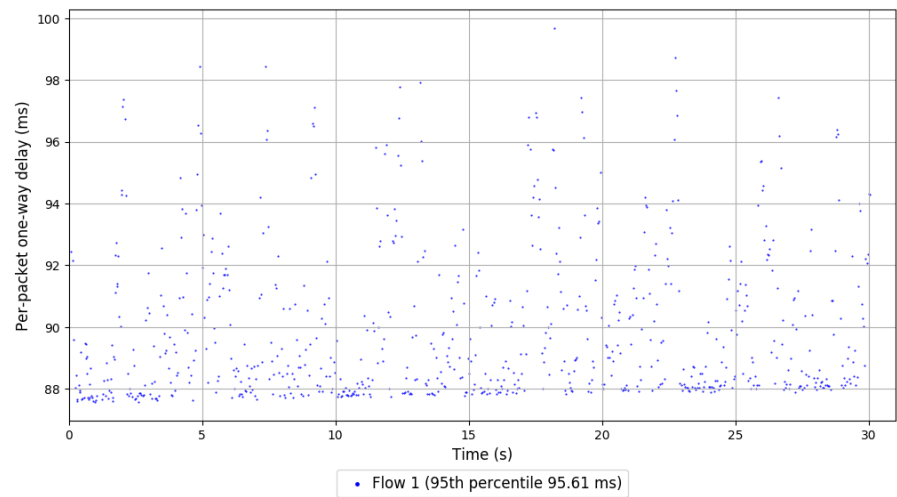
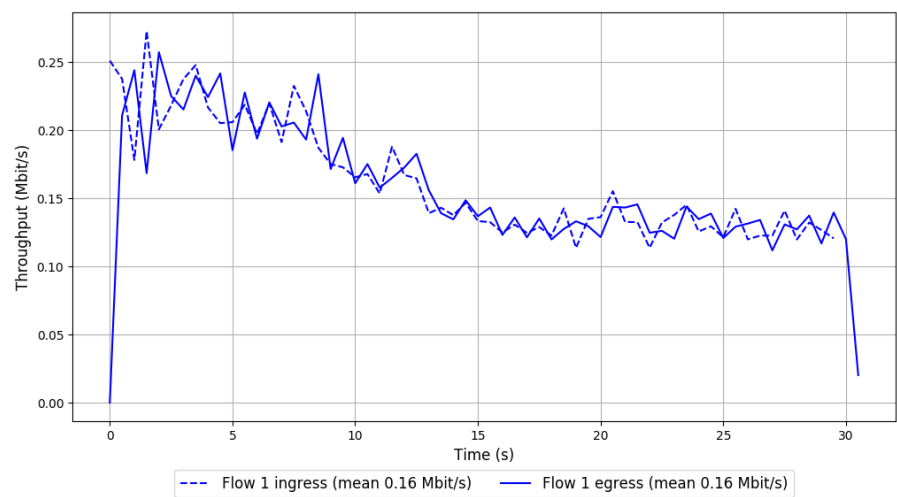


Run 5: Statistics of SCReAM

Start at: 2018-08-09 02:36:50
End at: 2018-08-09 02:37:20
Local clock offset: -2.504 ms
Remote clock offset: 14.253 ms

Below is generated by plot.py at 2018-08-09 04:33:17
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 95.609 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 95.609 ms
Loss rate: 0.30%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-08-09 02:56:42

End at: 2018-08-09 02:57:12

Local clock offset: -5.894 ms

Remote clock offset: 3.41 ms

Below is generated by plot.py at 2018-08-09 04:33:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 88.418 ms

Loss rate: 0.00%

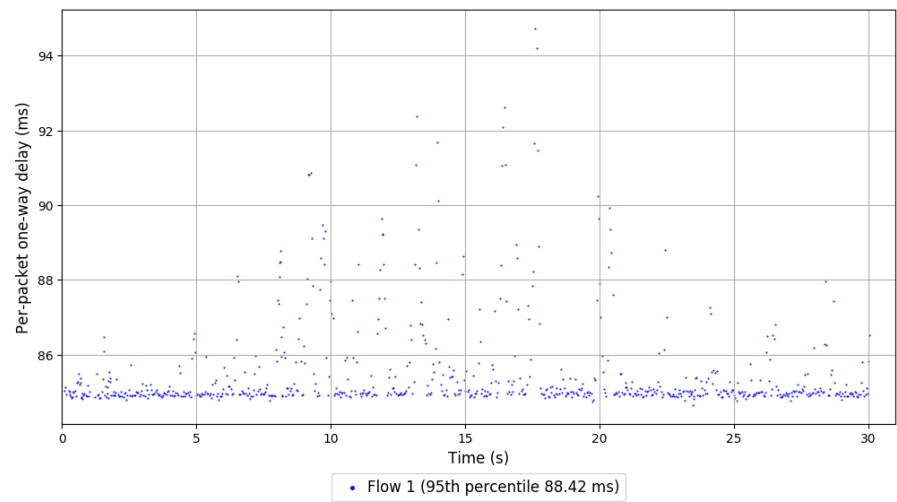
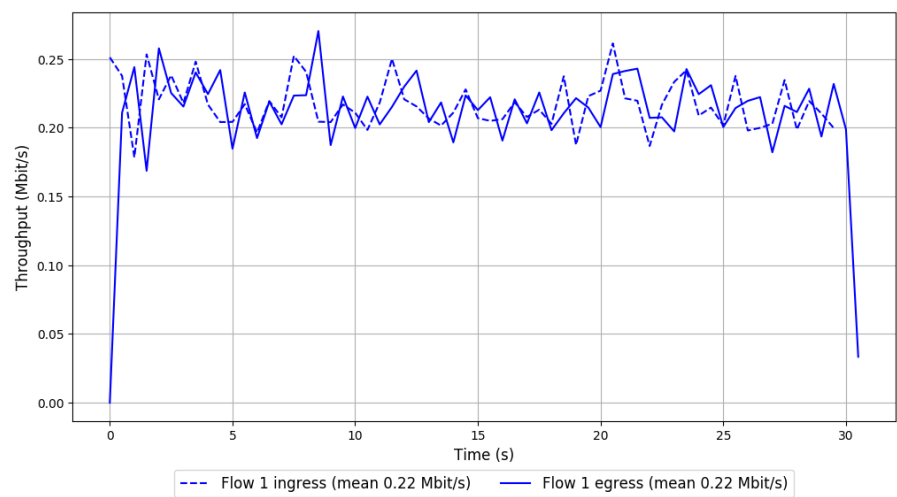
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 88.418 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2018-08-09 03:16:44

End at: 2018-08-09 03:17:14

Local clock offset: -7.782 ms

Remote clock offset: 4.652 ms

Below is generated by plot.py at 2018-08-09 04:33:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 90.328 ms

Loss rate: 0.00%

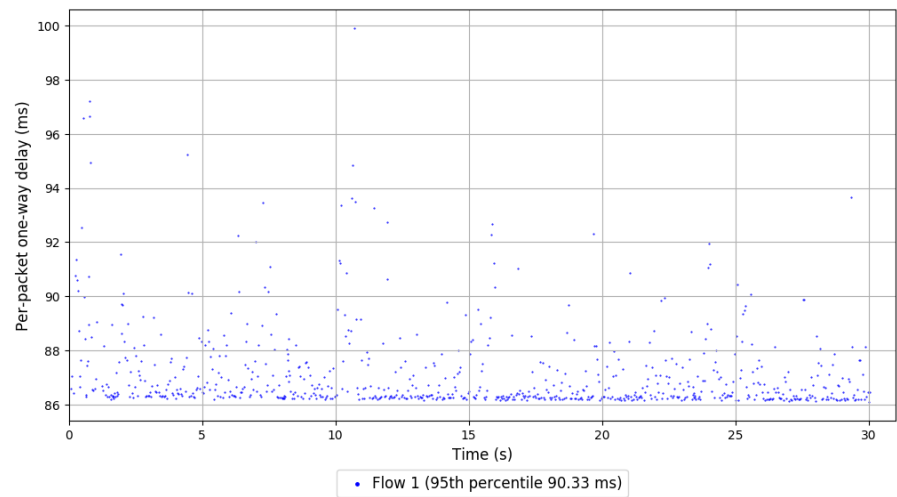
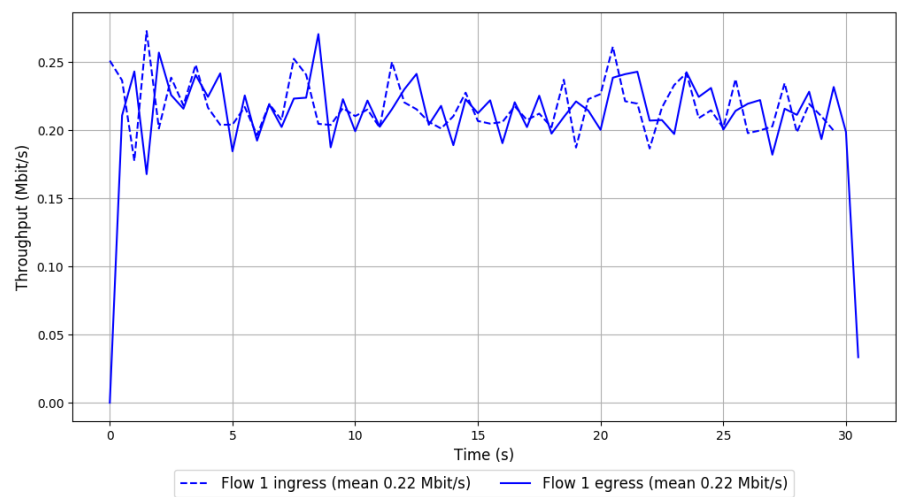
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 90.328 ms

Loss rate: 0.00%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-08-09 03:36:38

End at: 2018-08-09 03:37:08

Local clock offset: -8.519 ms

Remote clock offset: 4.97 ms

Below is generated by plot.py at 2018-08-09 04:33:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.052 ms

Loss rate: 0.00%

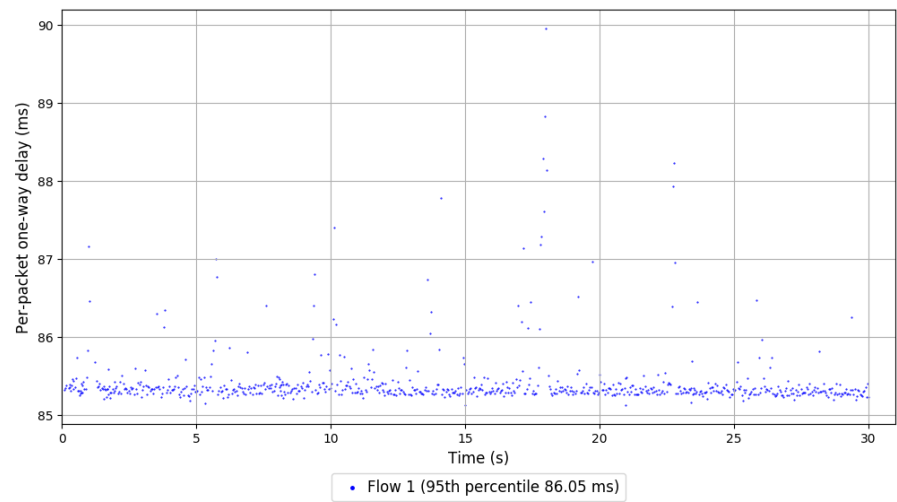
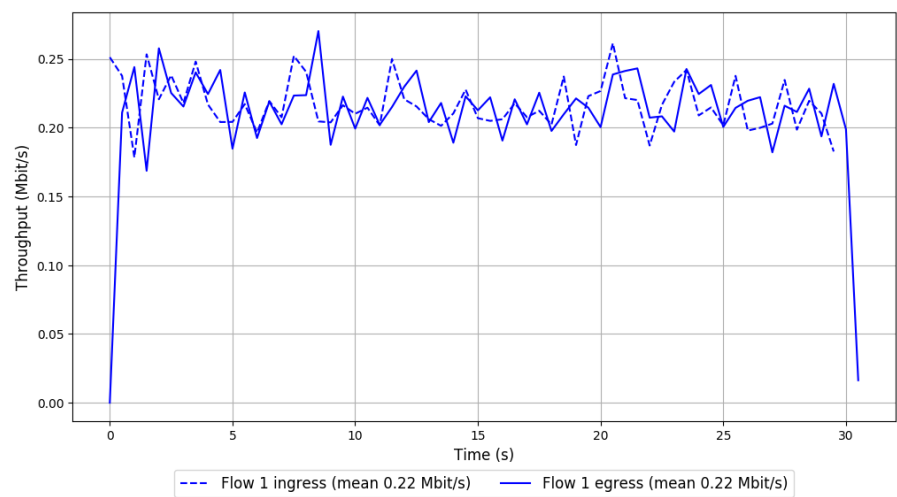
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.052 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-08-09 03:56:33

End at: 2018-08-09 03:57:03

Local clock offset: -3.216 ms

Remote clock offset: 4.158 ms

Below is generated by plot.py at 2018-08-09 04:33:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 91.820 ms

Loss rate: 0.00%

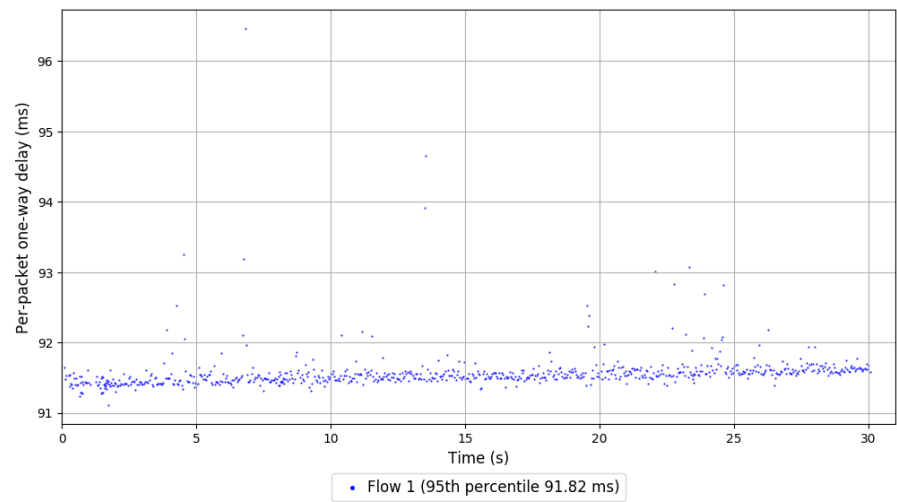
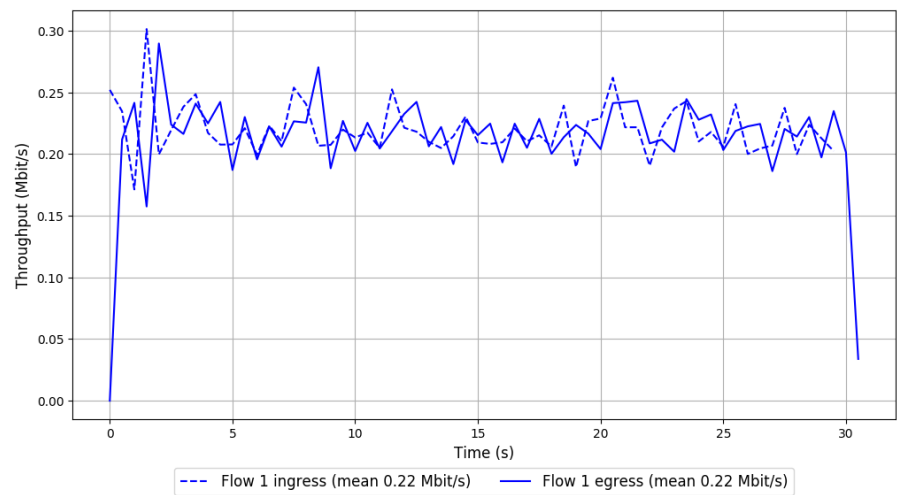
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 91.820 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SCReAM

Start at: 2018-08-09 04:16:25

End at: 2018-08-09 04:16:55

Local clock offset: -0.451 ms

Remote clock offset: 3.532 ms

Below is generated by plot.py at 2018-08-09 04:33:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 85.313 ms

Loss rate: 0.00%

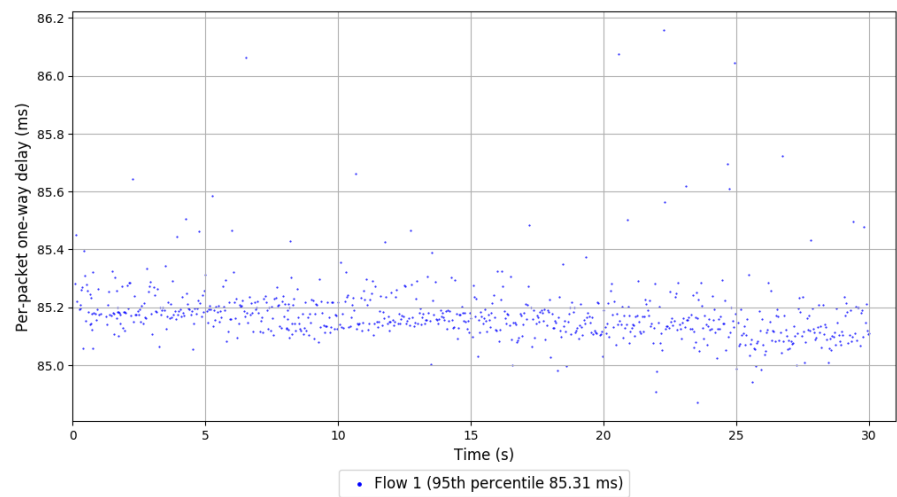
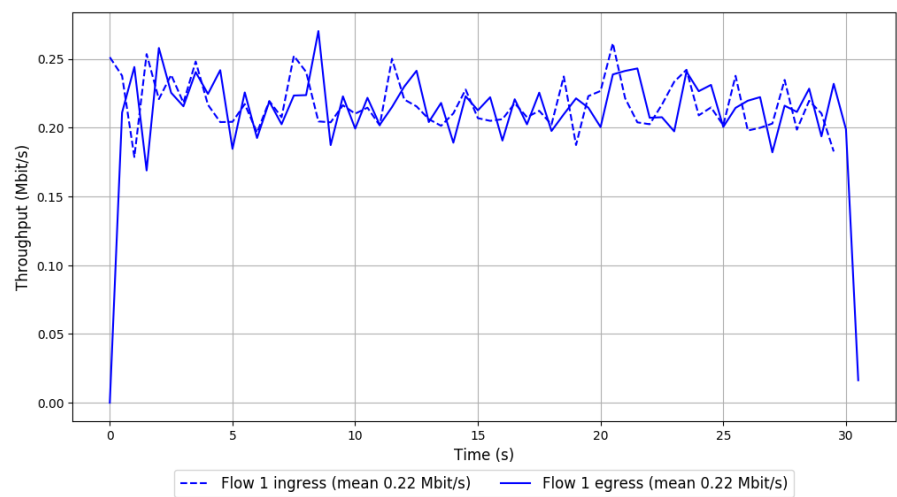
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 85.313 ms

Loss rate: 0.00%

Run 10: Report of SReAM — Data Link

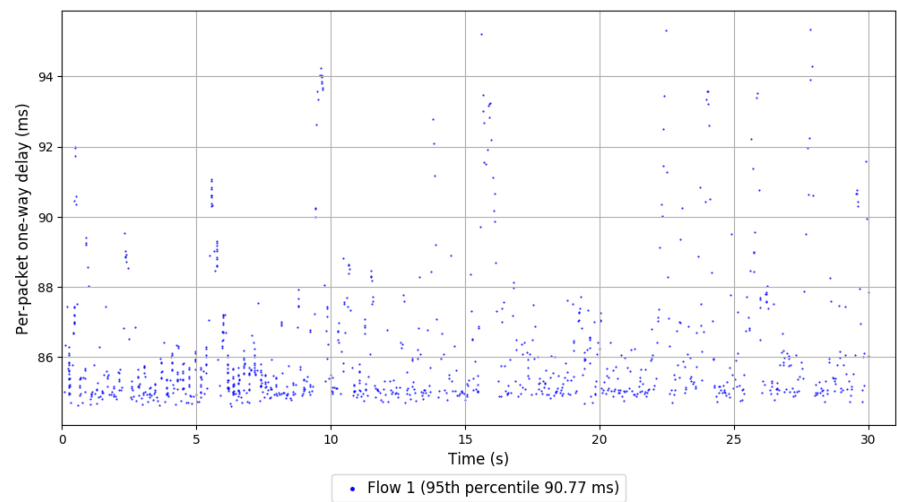
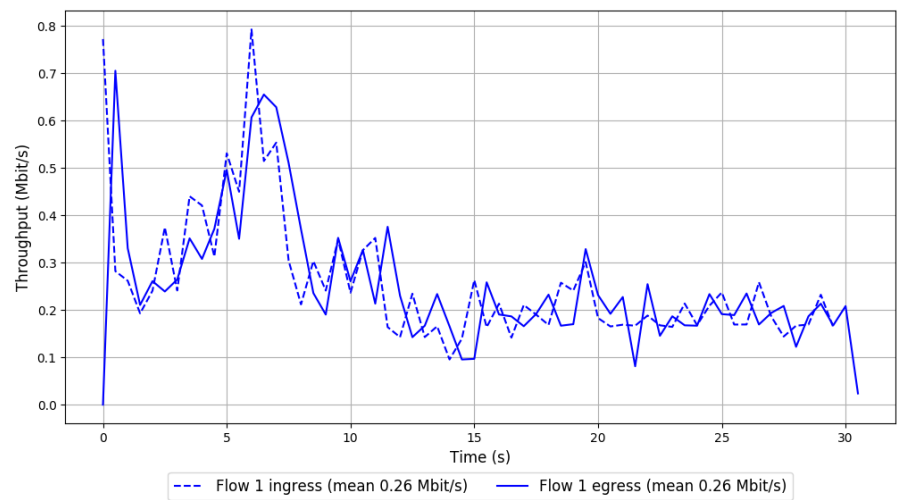


Run 1: Statistics of Sprout

Start at: 2018-08-09 01:19:06
End at: 2018-08-09 01:19:36
Local clock offset: -8.701 ms
Remote clock offset: -0.833 ms

Below is generated by plot.py at 2018-08-09 04:33:17
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.26 Mbit/s
95th percentile per-packet one-way delay: 90.774 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.26 Mbit/s
95th percentile per-packet one-way delay: 90.774 ms
Loss rate: 0.00%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-08-09 01:38:44

End at: 2018-08-09 01:39:14

Local clock offset: -8.207 ms

Remote clock offset: 6.303 ms

Below is generated by plot.py at 2018-08-09 04:33:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 93.721 ms

Loss rate: 0.30%

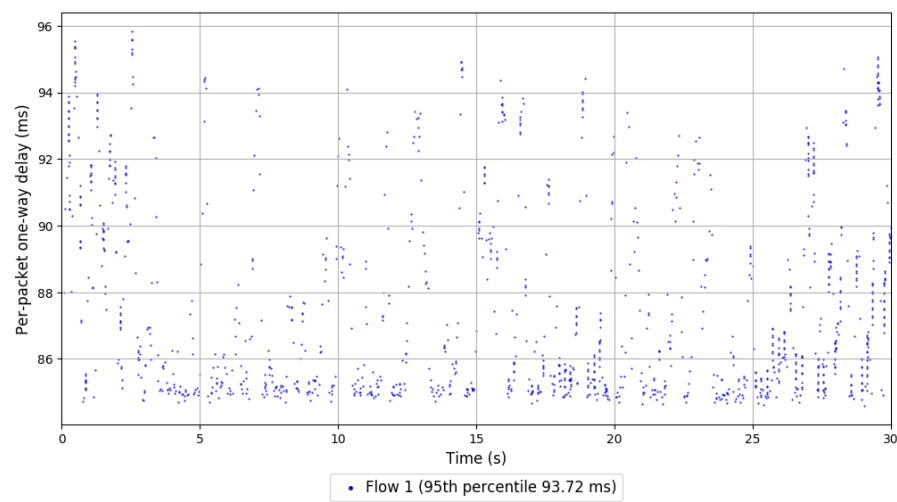
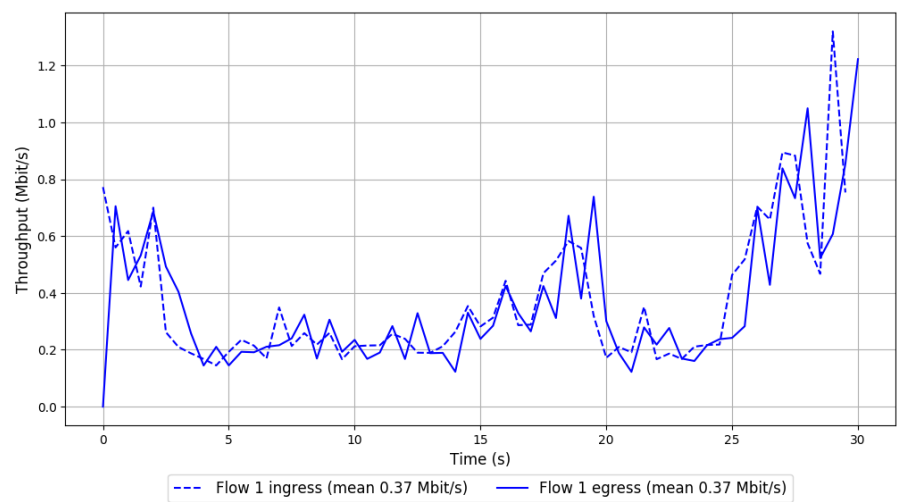
-- Flow 1:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 93.721 ms

Loss rate: 0.30%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-08-09 01:58:32

End at: 2018-08-09 01:59:02

Local clock offset: -4.074 ms

Remote clock offset: 8.79 ms

Below is generated by plot.py at 2018-08-09 04:33:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.32 Mbit/s

95th percentile per-packet one-way delay: 92.648 ms

Loss rate: 0.25%

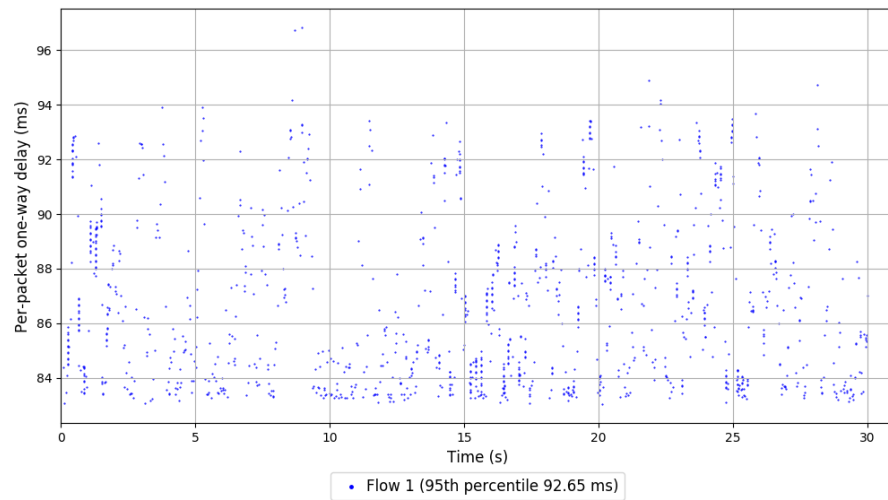
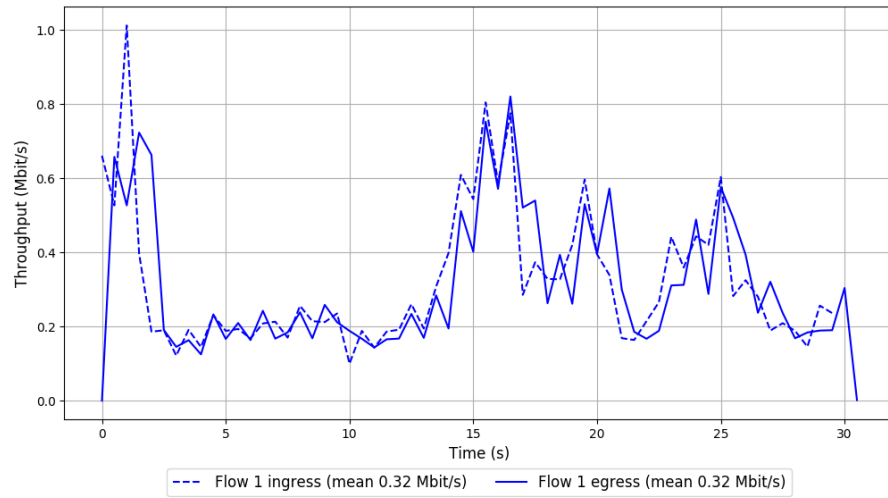
-- Flow 1:

Average throughput: 0.32 Mbit/s

95th percentile per-packet one-way delay: 92.648 ms

Loss rate: 0.25%

Run 3: Report of Sprout — Data Link

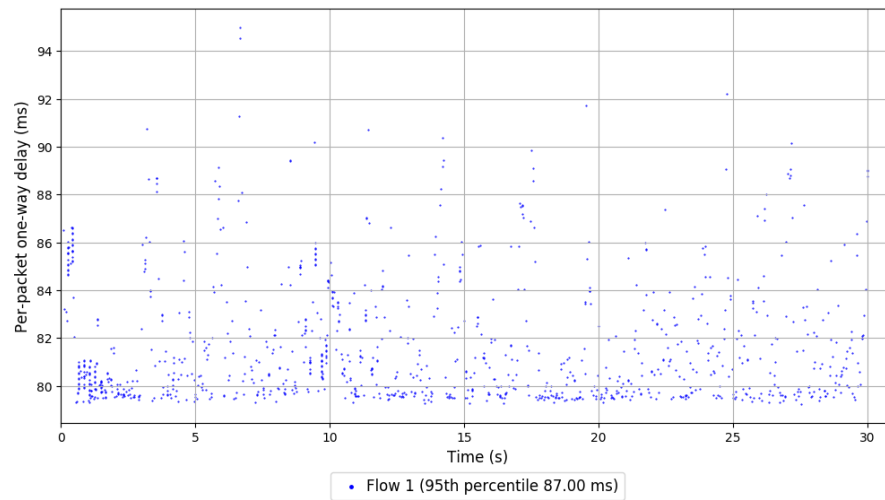
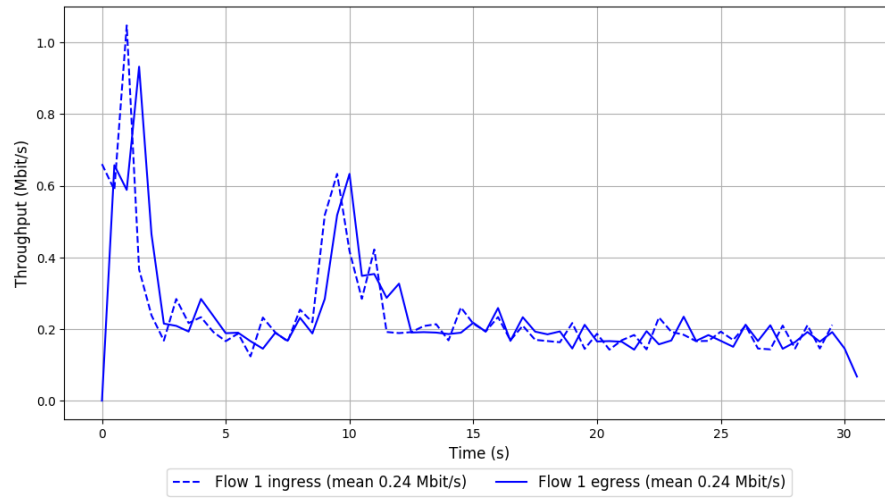


Run 4: Statistics of Sprout

Start at: 2018-08-09 02:18:09
End at: 2018-08-09 02:18:39
Local clock offset: -2.629 ms
Remote clock offset: 6.739 ms

Below is generated by plot.py at 2018-08-09 04:33:17
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.24 Mbit/s
95th percentile per-packet one-way delay: 87.000 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.24 Mbit/s
95th percentile per-packet one-way delay: 87.000 ms
Loss rate: 0.00%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-08-09 02:37:57

End at: 2018-08-09 02:38:27

Local clock offset: -2.492 ms

Remote clock offset: 7.363 ms

Below is generated by plot.py at 2018-08-09 04:33:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.31 Mbit/s

95th percentile per-packet one-way delay: 90.204 ms

Loss rate: 0.13%

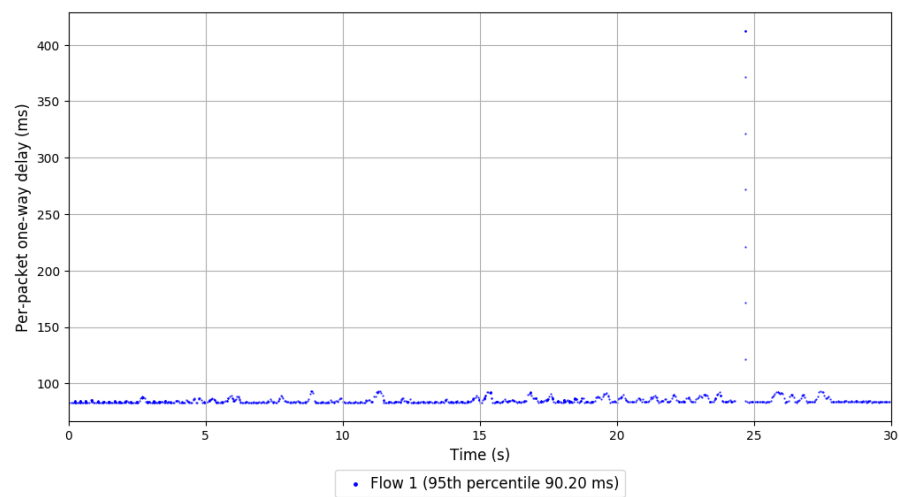
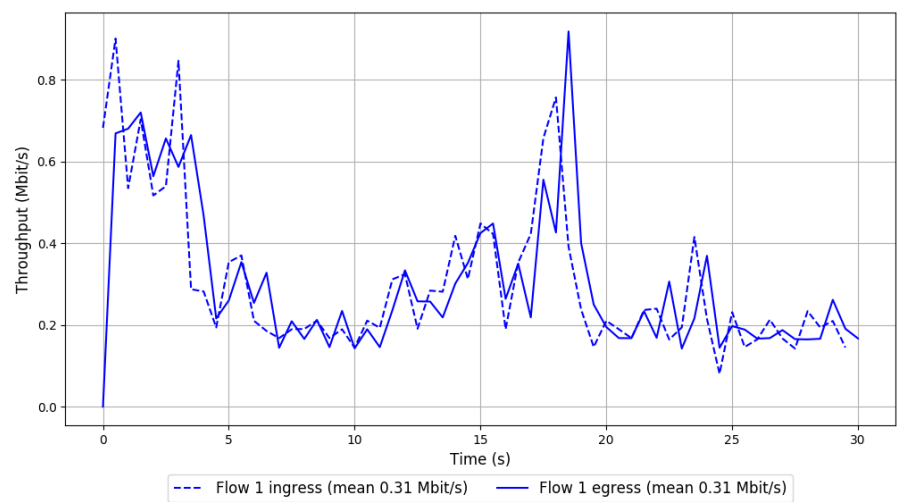
-- Flow 1:

Average throughput: 0.31 Mbit/s

95th percentile per-packet one-way delay: 90.204 ms

Loss rate: 0.13%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-08-09 02:57:49

End at: 2018-08-09 02:58:19

Local clock offset: -6.088 ms

Remote clock offset: 5.438 ms

Below is generated by plot.py at 2018-08-09 04:33:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 94.873 ms

Loss rate: 0.27%

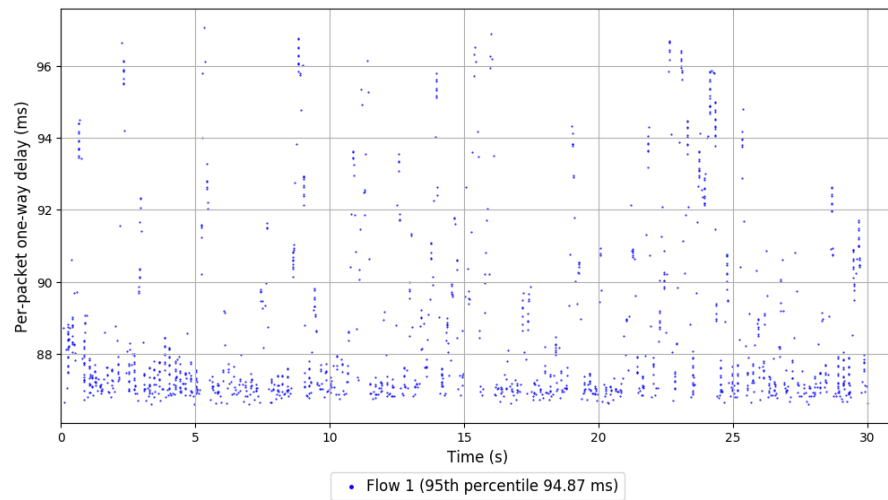
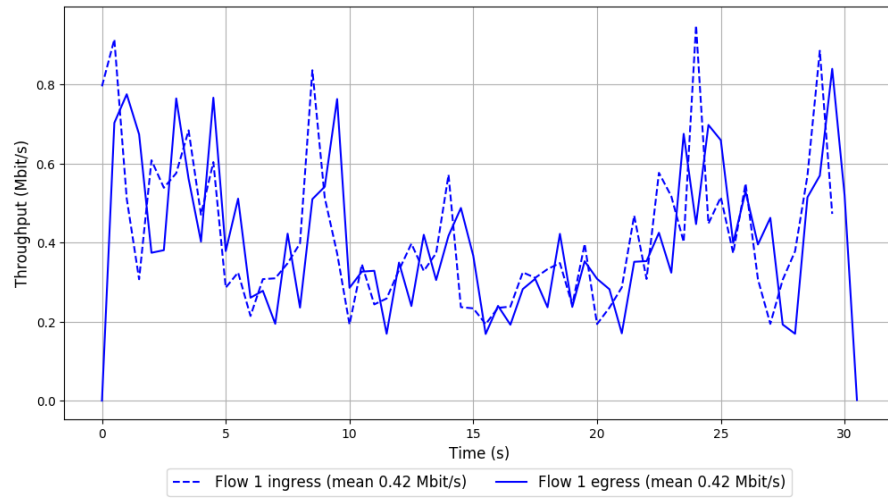
-- Flow 1:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 94.873 ms

Loss rate: 0.27%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-08-09 03:17:51

End at: 2018-08-09 03:18:21

Local clock offset: -7.805 ms

Remote clock offset: 4.903 ms

Below is generated by plot.py at 2018-08-09 04:33:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.29 Mbit/s

95th percentile per-packet one-way delay: 87.433 ms

Loss rate: 0.00%

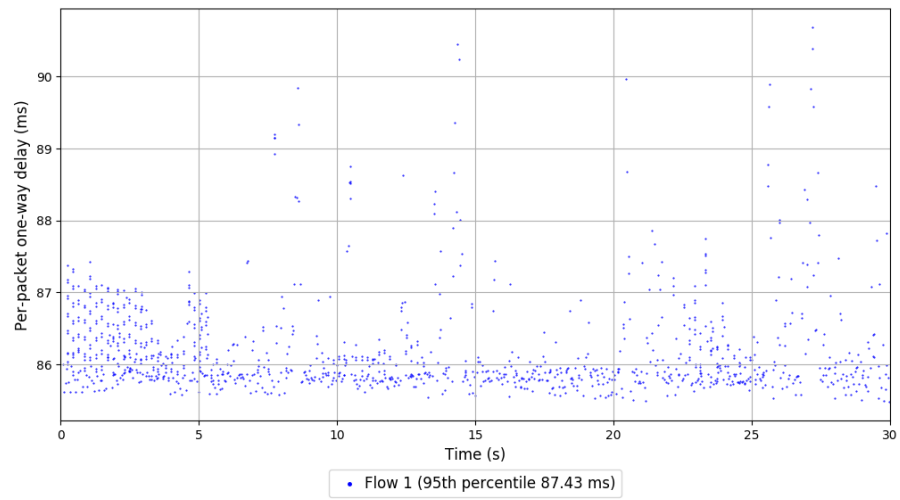
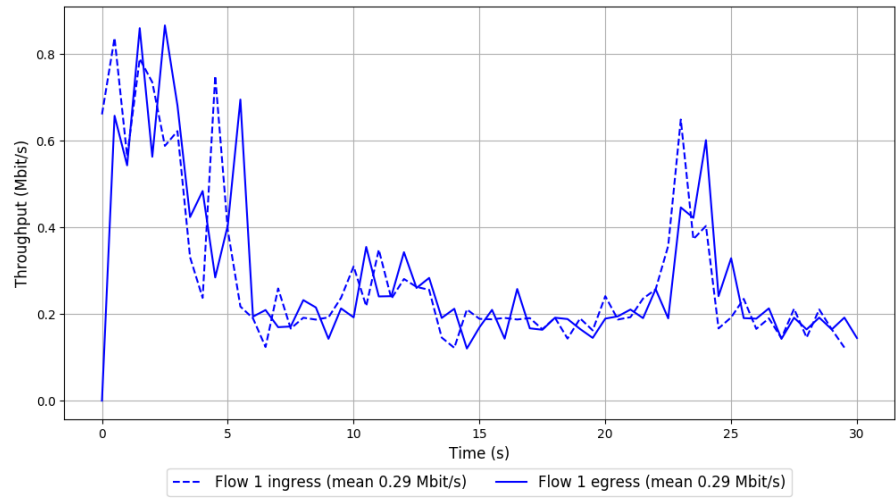
-- Flow 1:

Average throughput: 0.29 Mbit/s

95th percentile per-packet one-way delay: 87.433 ms

Loss rate: 0.00%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-08-09 03:37:44

End at: 2018-08-09 03:38:14

Local clock offset: -8.508 ms

Remote clock offset: 1.163 ms

Below is generated by plot.py at 2018-08-09 04:33:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.29 Mbit/s

95th percentile per-packet one-way delay: 81.555 ms

Loss rate: 0.00%

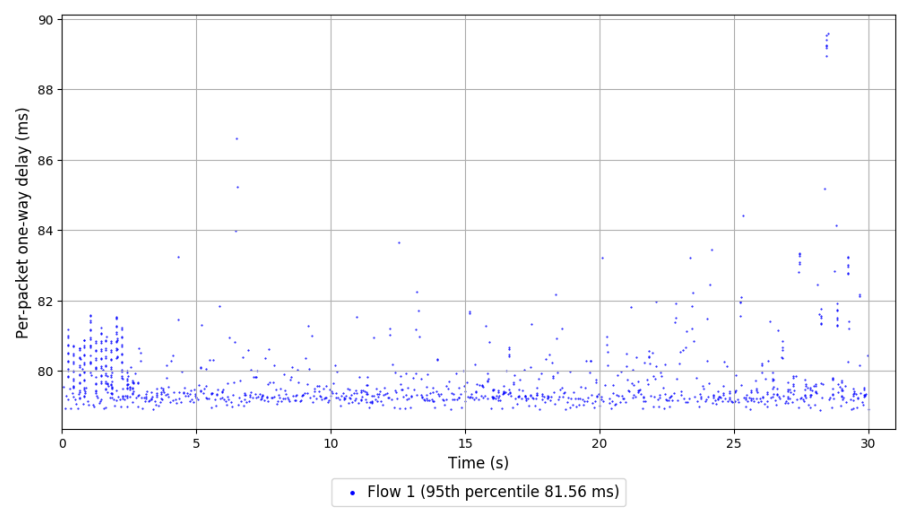
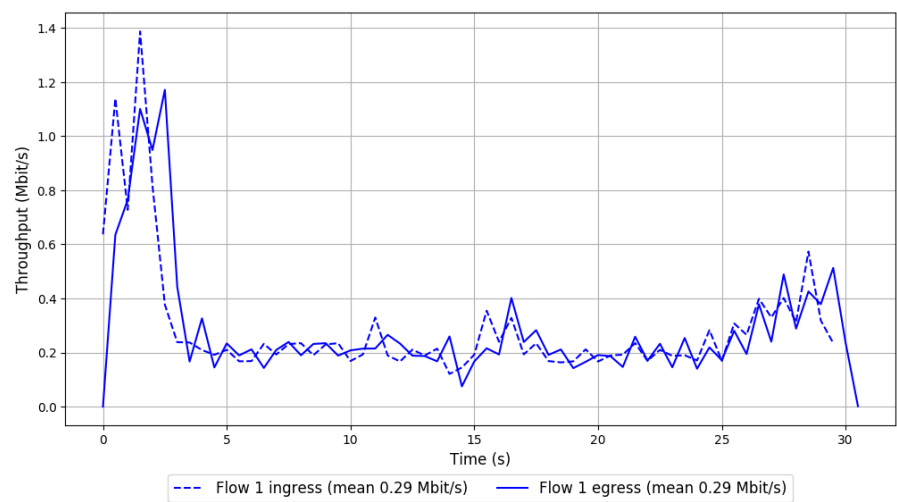
-- Flow 1:

Average throughput: 0.29 Mbit/s

95th percentile per-packet one-way delay: 81.555 ms

Loss rate: 0.00%

Run 8: Report of Sprout — Data Link

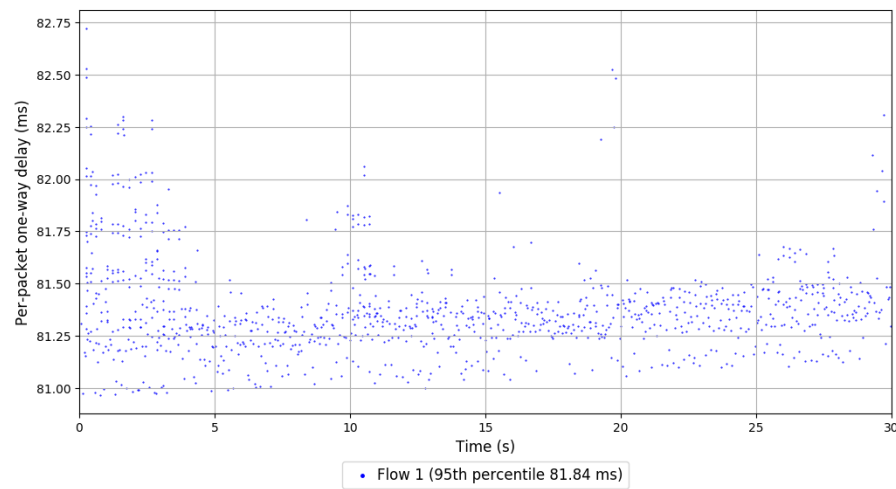
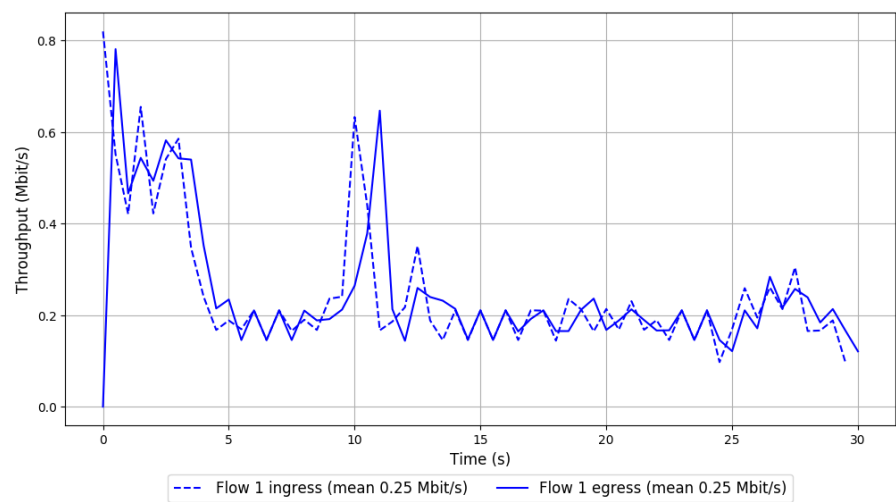


Run 9: Statistics of Sprout

Start at: 2018-08-09 03:57:40
End at: 2018-08-09 03:58:10
Local clock offset: -3.037 ms
Remote clock offset: -0.822 ms

Below is generated by plot.py at 2018-08-09 04:33:17
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.25 Mbit/s
95th percentile per-packet one-way delay: 81.840 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.25 Mbit/s
95th percentile per-packet one-way delay: 81.840 ms
Loss rate: 0.00%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-08-09 04:17:32

End at: 2018-08-09 04:18:02

Local clock offset: -0.744 ms

Remote clock offset: -1.37 ms

Below is generated by plot.py at 2018-08-09 04:33:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.36 Mbit/s

95th percentile per-packet one-way delay: 82.713 ms

Loss rate: 0.00%

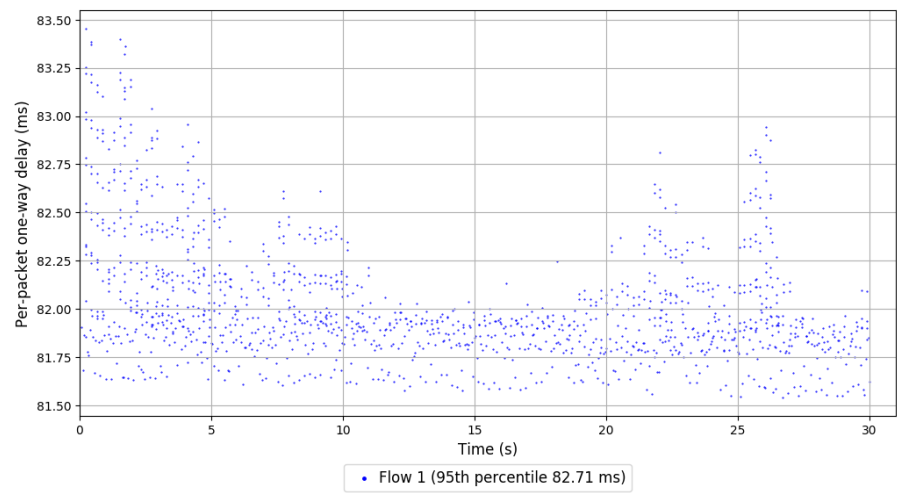
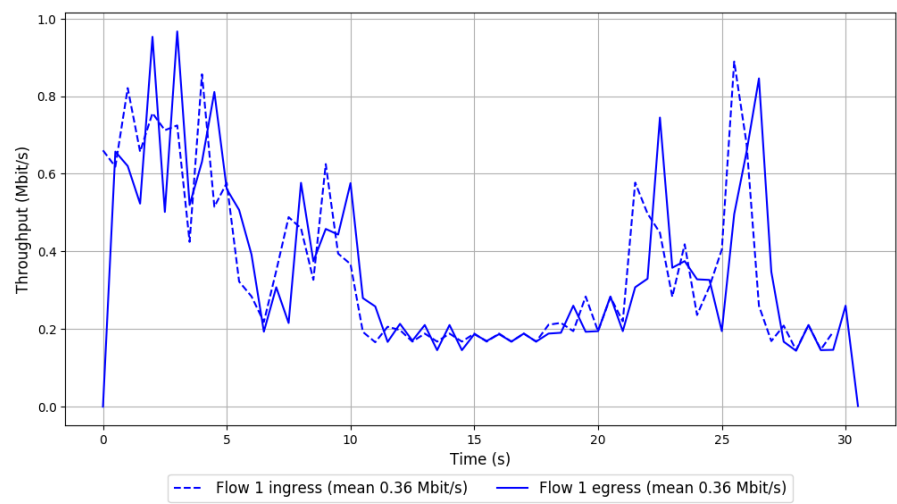
-- Flow 1:

Average throughput: 0.36 Mbit/s

95th percentile per-packet one-way delay: 82.713 ms

Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

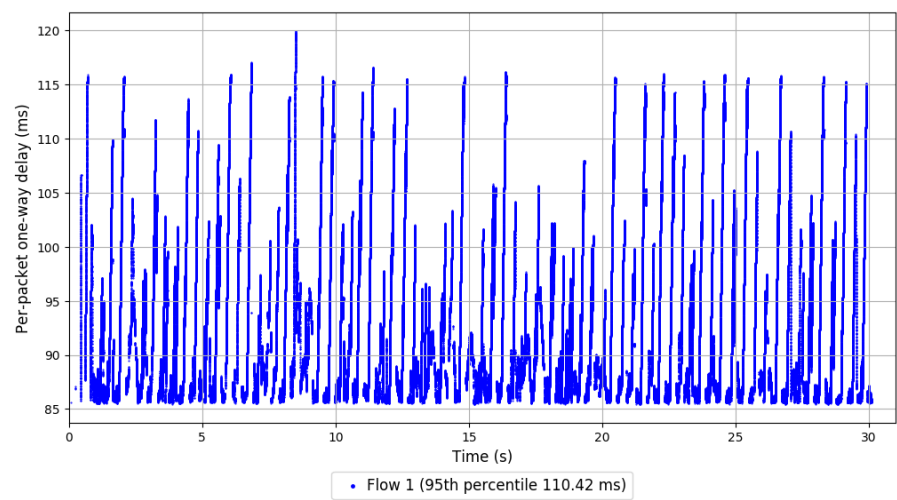
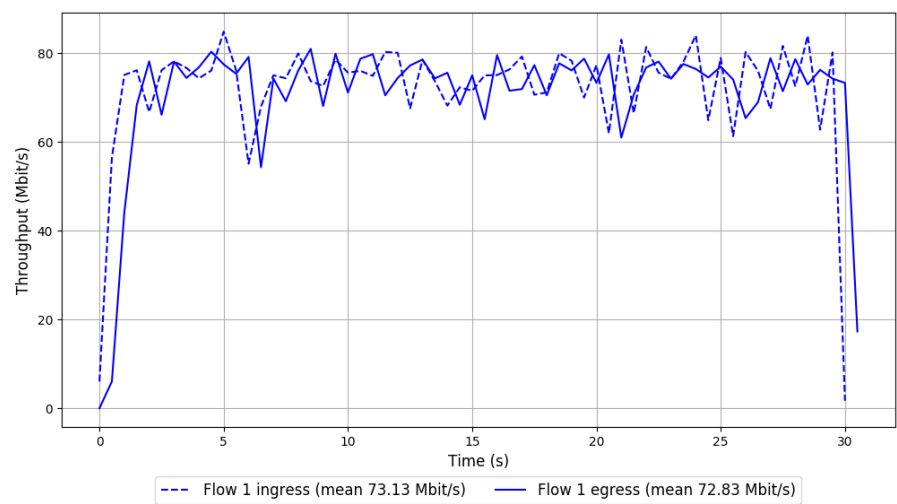


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-08-09 01:13:17
End at: 2018-08-09 01:13:47
Local clock offset: -9.07 ms
Remote clock offset: 0.149 ms

# Below is generated by plot.py at 2018-08-09 04:34:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 72.83 Mbit/s
95th percentile per-packet one-way delay: 110.419 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 72.83 Mbit/s
95th percentile per-packet one-way delay: 110.419 ms
Loss rate: 0.42%
```

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



Run 2: Statistics of TaoVA-100x

Start at: 2018-08-09 01:32:56

End at: 2018-08-09 01:33:26

Local clock offset: -8.001 ms

Remote clock offset: 0.953 ms

Below is generated by plot.py at 2018-08-09 04:34:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.68 Mbit/s

95th percentile per-packet one-way delay: 99.321 ms

Loss rate: 0.22%

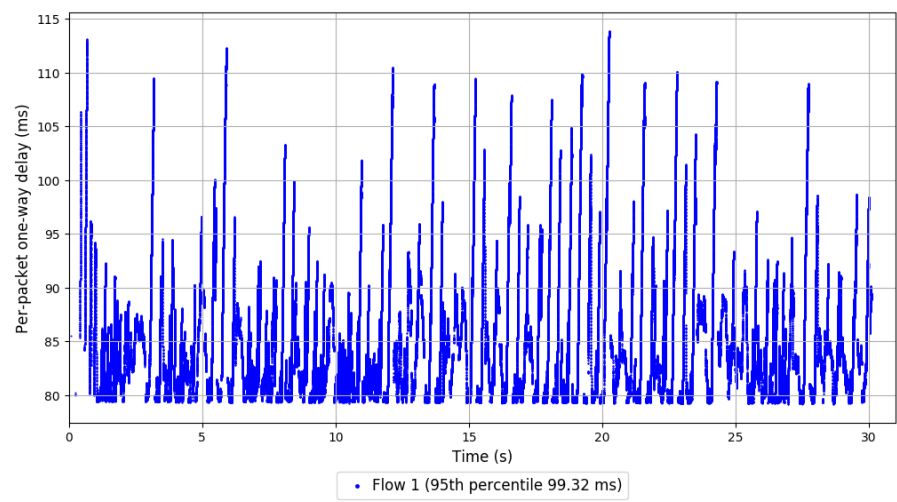
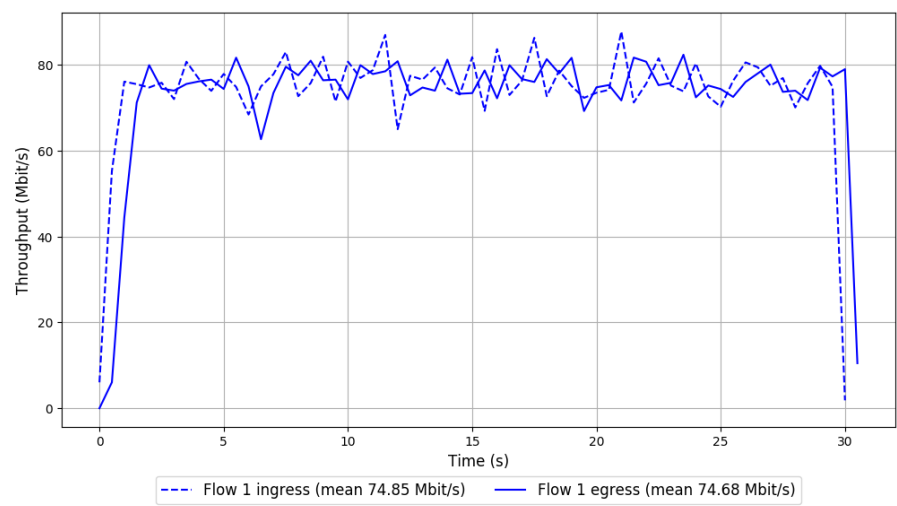
-- Flow 1:

Average throughput: 74.68 Mbit/s

95th percentile per-packet one-way delay: 99.321 ms

Loss rate: 0.22%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-08-09 01:52:43

End at: 2018-08-09 01:53:13

Local clock offset: -5.321 ms

Remote clock offset: 5.692 ms

Below is generated by plot.py at 2018-08-09 04:34:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.61 Mbit/s

95th percentile per-packet one-way delay: 101.662 ms

Loss rate: 0.12%

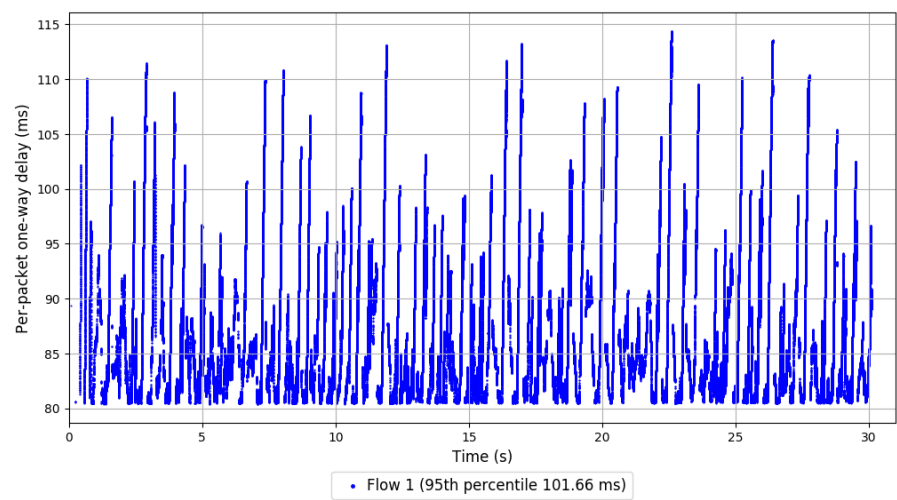
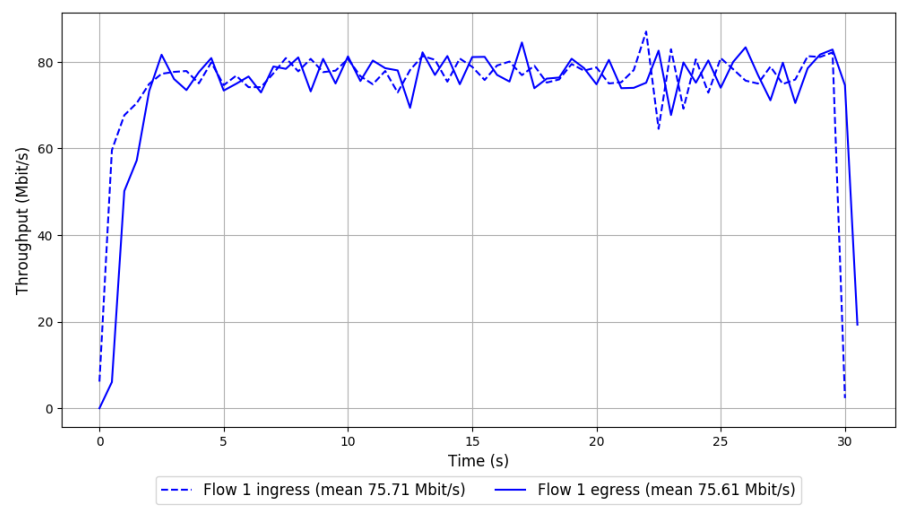
-- Flow 1:

Average throughput: 75.61 Mbit/s

95th percentile per-packet one-way delay: 101.662 ms

Loss rate: 0.12%

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

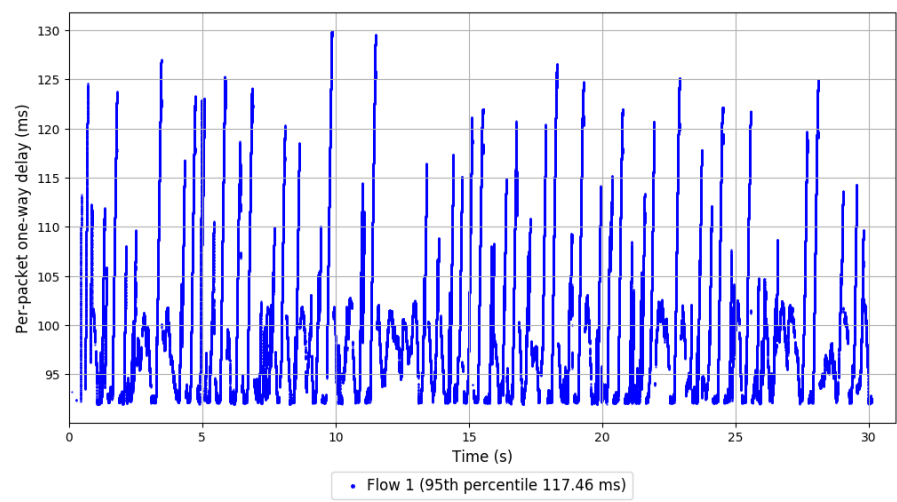
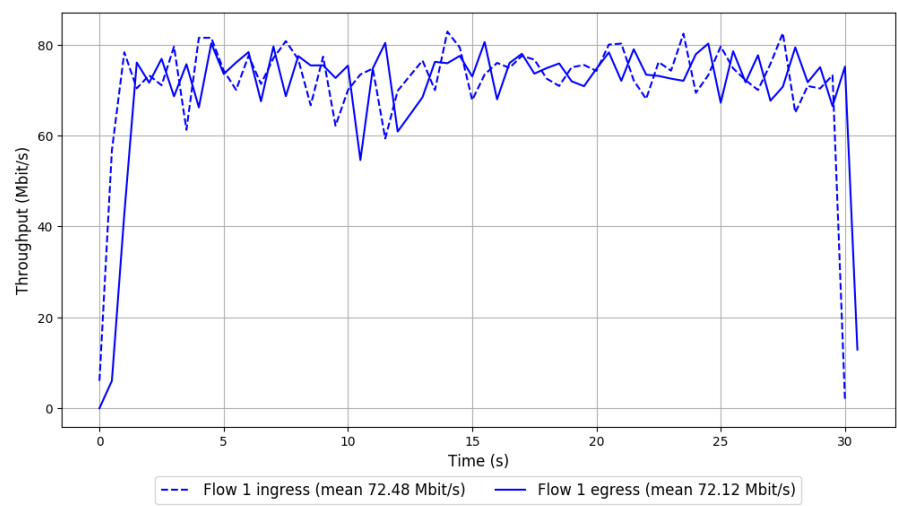


Run 4: Statistics of TaoVA-100x

Start at: 2018-08-09 02:12:21
End at: 2018-08-09 02:12:51
Local clock offset: -2.773 ms
Remote clock offset: 12.257 ms

Below is generated by plot.py at 2018-08-09 04:34:23
Datalink statistics
-- Total of 1 flow:
Average throughput: 72.12 Mbit/s
95th percentile per-packet one-way delay: 117.458 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 72.12 Mbit/s
95th percentile per-packet one-way delay: 117.458 ms
Loss rate: 0.50%

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

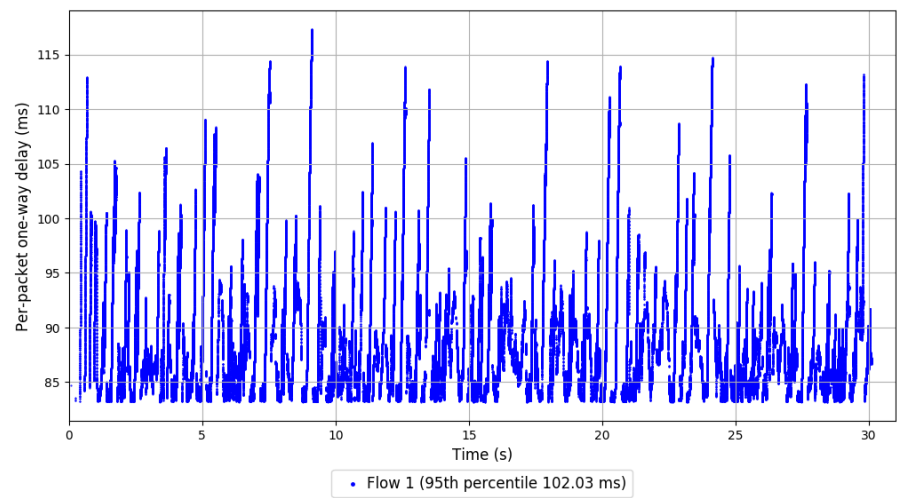
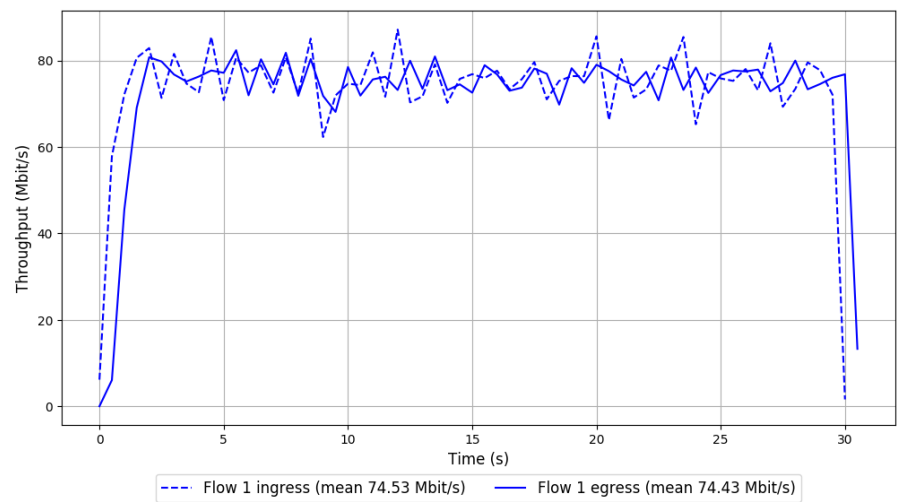


Run 5: Statistics of TaoVA-100x

Start at: 2018-08-09 02:32:07
End at: 2018-08-09 02:32:37
Local clock offset: -2.559 ms
Remote clock offset: 11.597 ms

Below is generated by plot.py at 2018-08-09 04:34:39
Datalink statistics
-- Total of 1 flow:
Average throughput: 74.43 Mbit/s
95th percentile per-packet one-way delay: 102.033 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 74.43 Mbit/s
95th percentile per-packet one-way delay: 102.033 ms
Loss rate: 0.13%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-08-09 02:51:59

End at: 2018-08-09 02:52:29

Local clock offset: -4.812 ms

Remote clock offset: 5.459 ms

Below is generated by plot.py at 2018-08-09 04:34:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.07 Mbit/s

95th percentile per-packet one-way delay: 104.505 ms

Loss rate: 0.12%

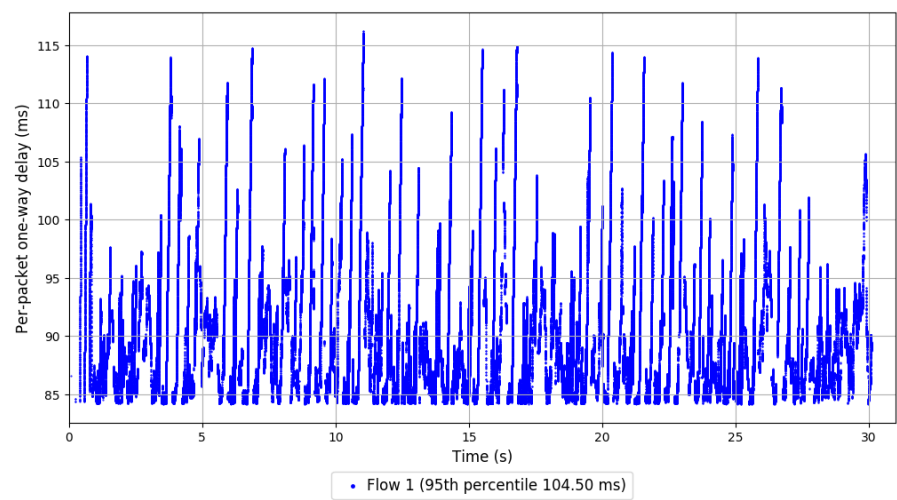
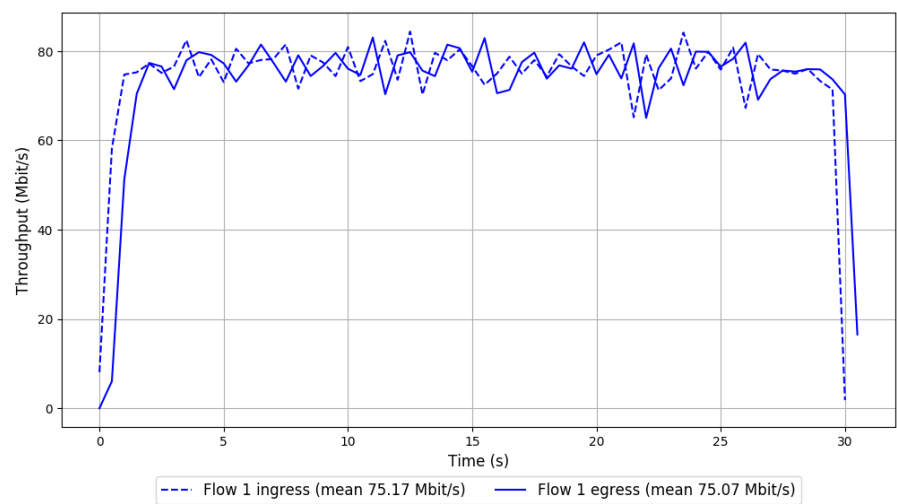
-- Flow 1:

Average throughput: 75.07 Mbit/s

95th percentile per-packet one-way delay: 104.505 ms

Loss rate: 0.12%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-08-09 03:12:02

End at: 2018-08-09 03:12:32

Local clock offset: -7.544 ms

Remote clock offset: 3.205 ms

Below is generated by plot.py at 2018-08-09 04:34:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.61 Mbit/s

95th percentile per-packet one-way delay: 112.105 ms

Loss rate: 0.29%

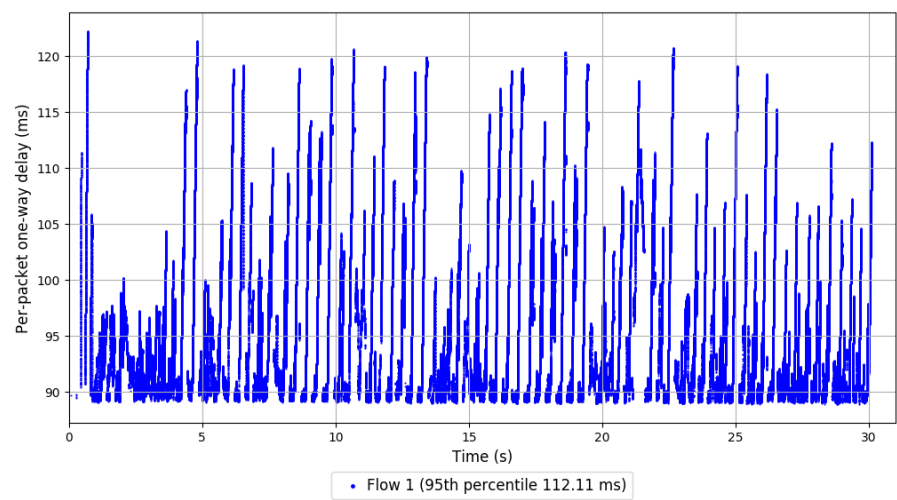
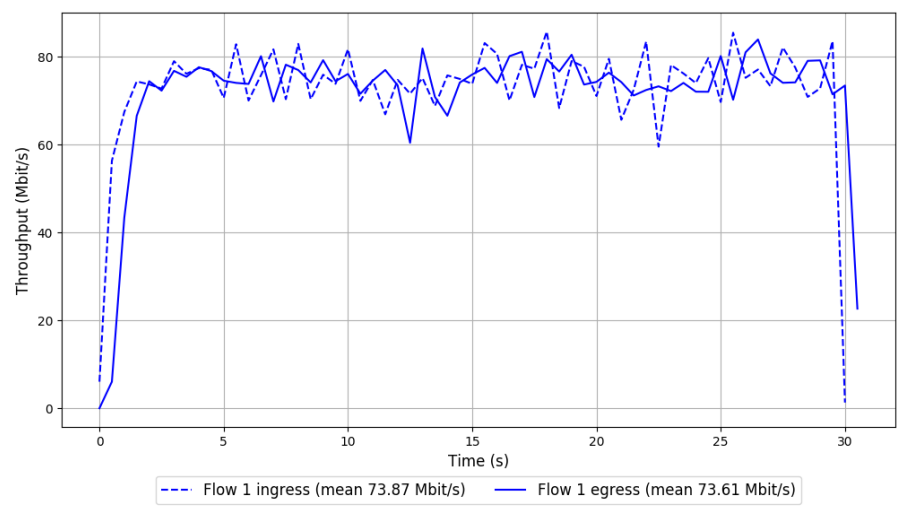
-- Flow 1:

Average throughput: 73.61 Mbit/s

95th percentile per-packet one-way delay: 112.105 ms

Loss rate: 0.29%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-08-09 03:31:56

End at: 2018-08-09 03:32:26

Local clock offset: -8.292 ms

Remote clock offset: 6.031 ms

Below is generated by plot.py at 2018-08-09 04:35:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.05 Mbit/s

95th percentile per-packet one-way delay: 112.305 ms

Loss rate: 0.56%

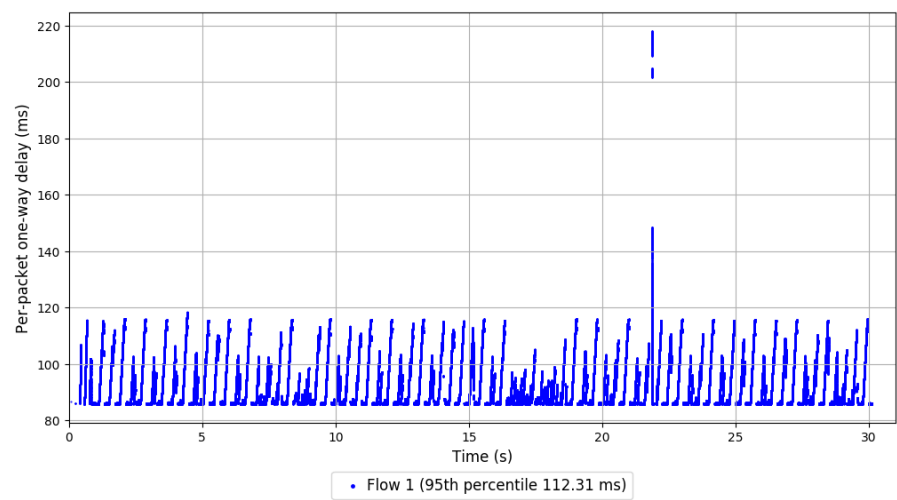
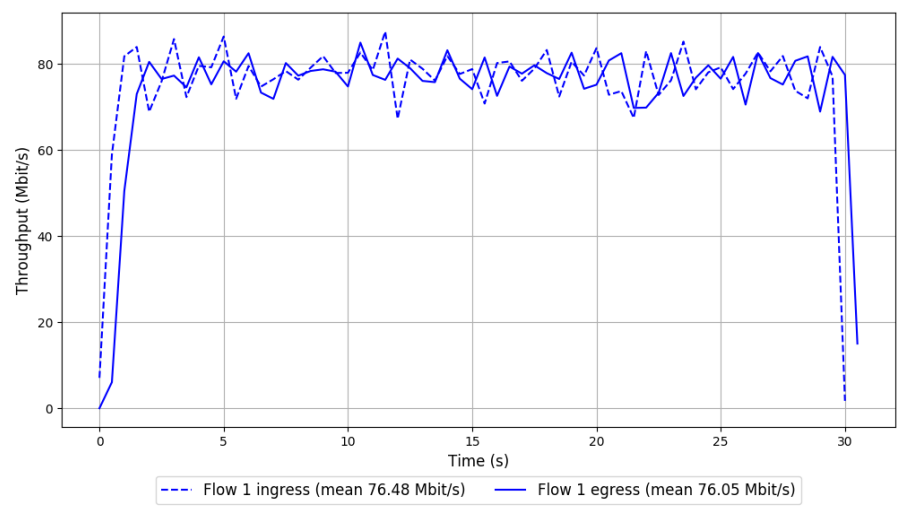
-- Flow 1:

Average throughput: 76.05 Mbit/s

95th percentile per-packet one-way delay: 112.305 ms

Loss rate: 0.56%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-08-09 03:51:50

End at: 2018-08-09 03:52:20

Local clock offset: -5.037 ms

Remote clock offset: 0.954 ms

Below is generated by plot.py at 2018-08-09 04:35:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.44 Mbit/s

95th percentile per-packet one-way delay: 105.712 ms

Loss rate: 0.43%

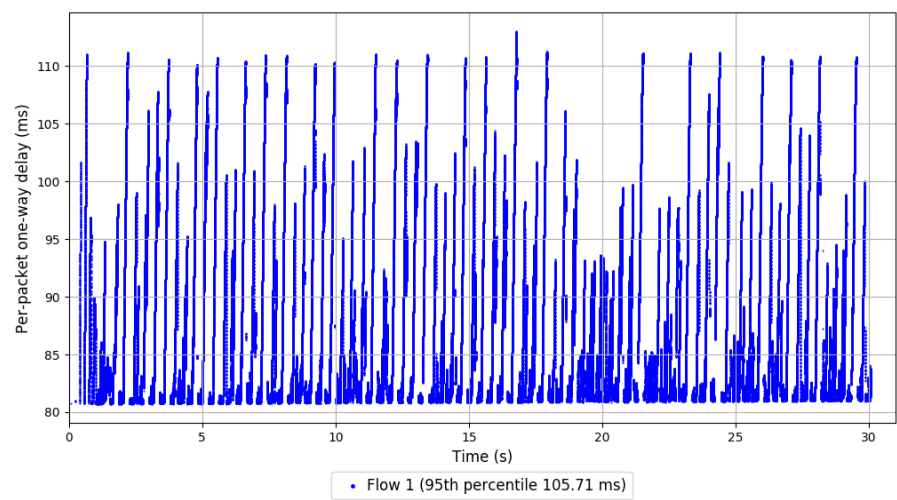
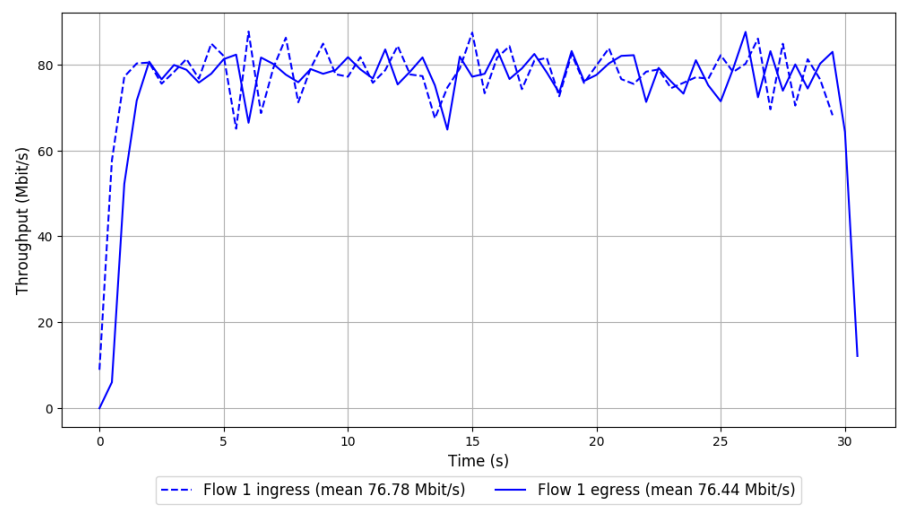
-- Flow 1:

Average throughput: 76.44 Mbit/s

95th percentile per-packet one-way delay: 105.712 ms

Loss rate: 0.43%

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



Run 10: Statistics of TaoVA-100x

Start at: 2018-08-09 04:11:44

End at: 2018-08-09 04:12:14

Local clock offset: -0.758 ms

Remote clock offset: -1.088 ms

Below is generated by plot.py at 2018-08-09 04:35:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.22 Mbit/s

95th percentile per-packet one-way delay: 109.148 ms

Loss rate: 0.65%

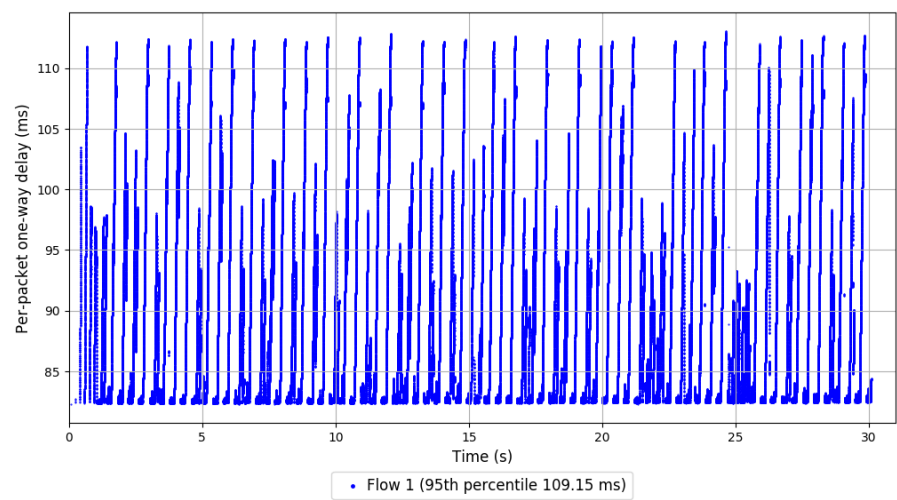
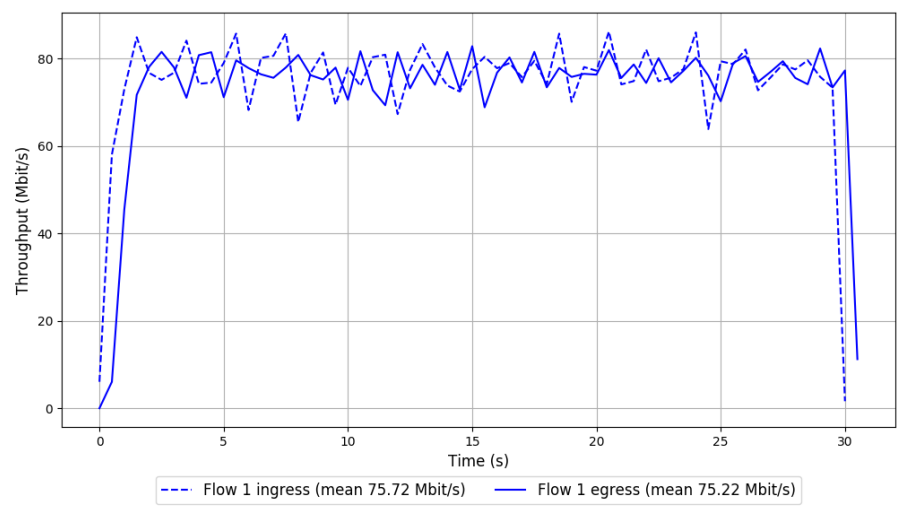
-- Flow 1:

Average throughput: 75.22 Mbit/s

95th percentile per-packet one-way delay: 109.148 ms

Loss rate: 0.65%

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

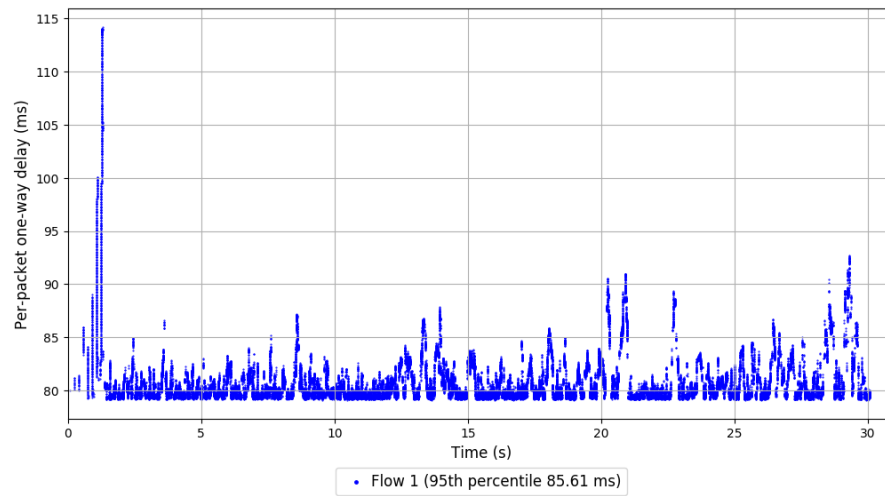
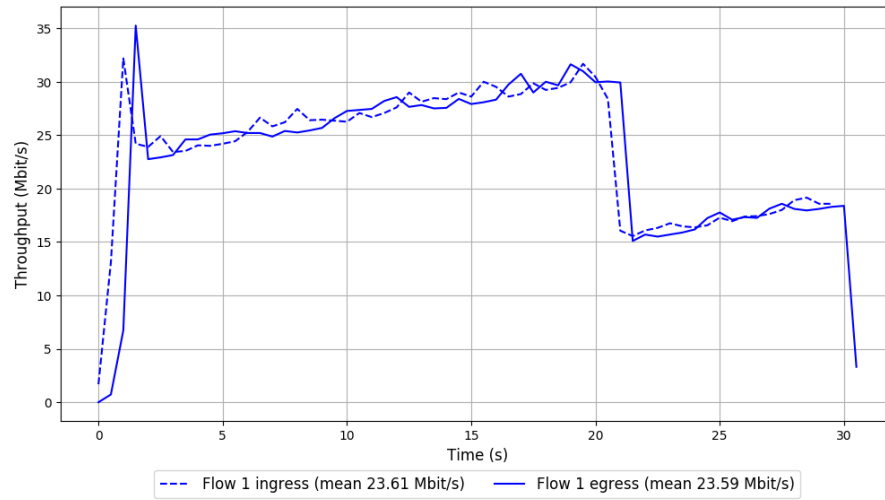


Run 1: Statistics of TCP Vegas

Start at: 2018-08-09 01:01:30
End at: 2018-08-09 01:02:00
Local clock offset: -7.627 ms
Remote clock offset: -0.919 ms

Below is generated by plot.py at 2018-08-09 04:35:53
Datalink statistics
-- Total of 1 flow:
Average throughput: 23.59 Mbit/s
95th percentile per-packet one-way delay: 85.606 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 23.59 Mbit/s
95th percentile per-packet one-way delay: 85.606 ms
Loss rate: 0.09%

Run 1: Report of TCP Vegas — Data Link

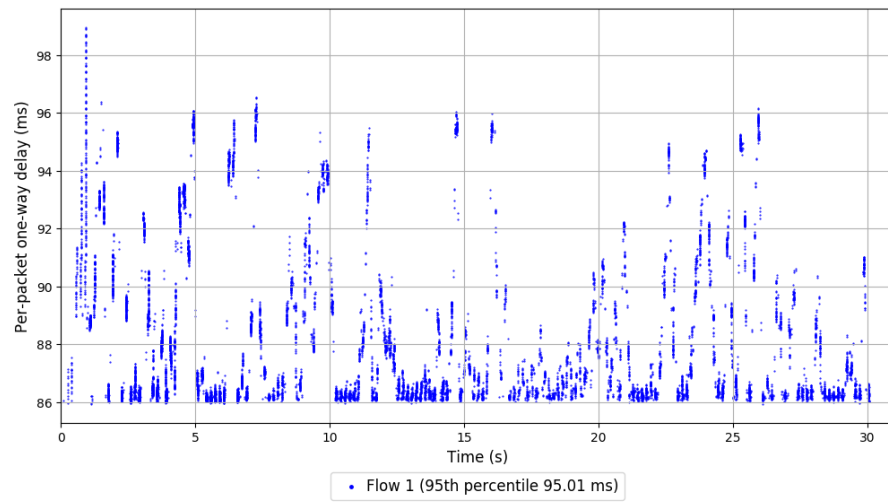
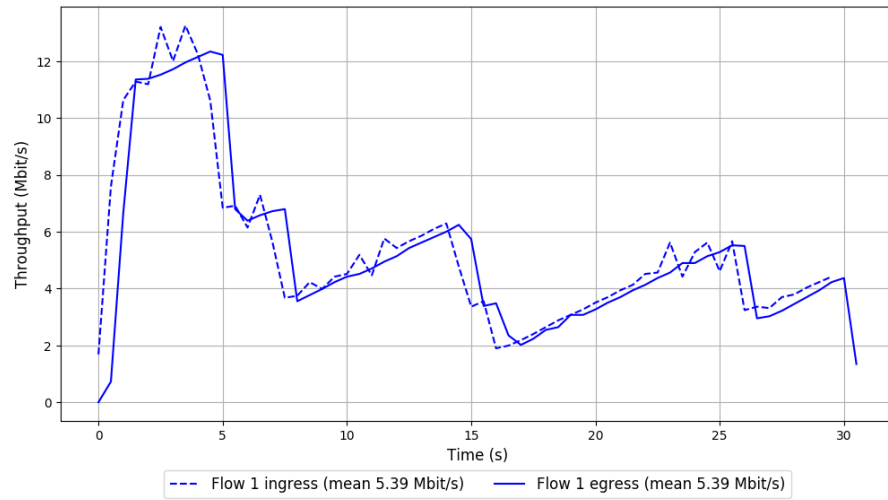


Run 2: Statistics of TCP Vegas

Start at: 2018-08-09 01:21:22
End at: 2018-08-09 01:21:53
Local clock offset: -8.411 ms
Remote clock offset: 4.131 ms

Below is generated by plot.py at 2018-08-09 04:35:53
Datalink statistics
-- Total of 1 flow:
Average throughput: 5.39 Mbit/s
95th percentile per-packet one-way delay: 95.014 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 5.39 Mbit/s
95th percentile per-packet one-way delay: 95.014 ms
Loss rate: 0.12%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-08-09 01:41:05

End at: 2018-08-09 01:41:35

Local clock offset: -8.25 ms

Remote clock offset: 4.054 ms

Below is generated by plot.py at 2018-08-09 04:35:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 16.43 Mbit/s

95th percentile per-packet one-way delay: 90.017 ms

Loss rate: 0.78%

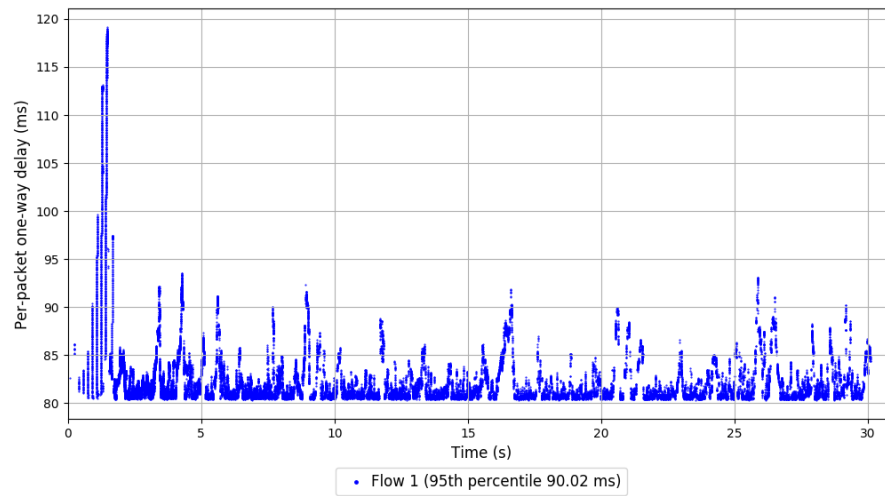
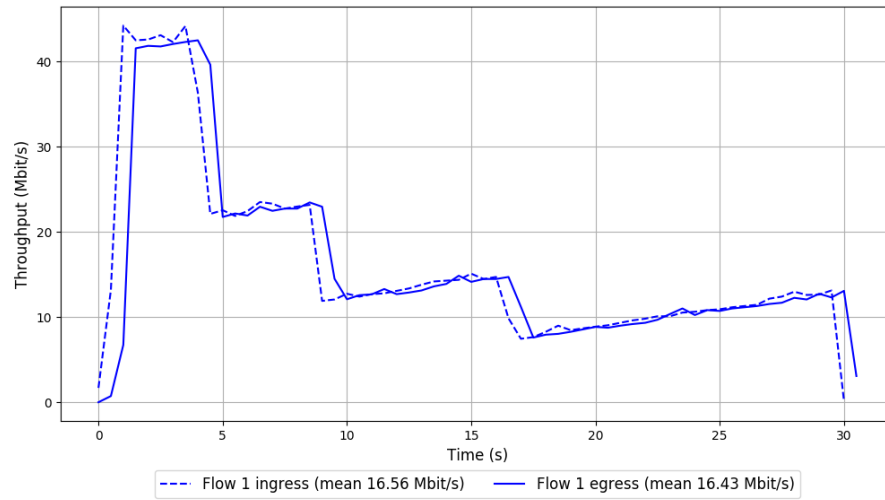
-- Flow 1:

Average throughput: 16.43 Mbit/s

95th percentile per-packet one-way delay: 90.017 ms

Loss rate: 0.78%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-08-09 02:00:49

End at: 2018-08-09 02:01:19

Local clock offset: -3.709 ms

Remote clock offset: 5.344 ms

Below is generated by plot.py at 2018-08-09 04:35:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 19.43 Mbit/s

95th percentile per-packet one-way delay: 89.070 ms

Loss rate: 0.63%

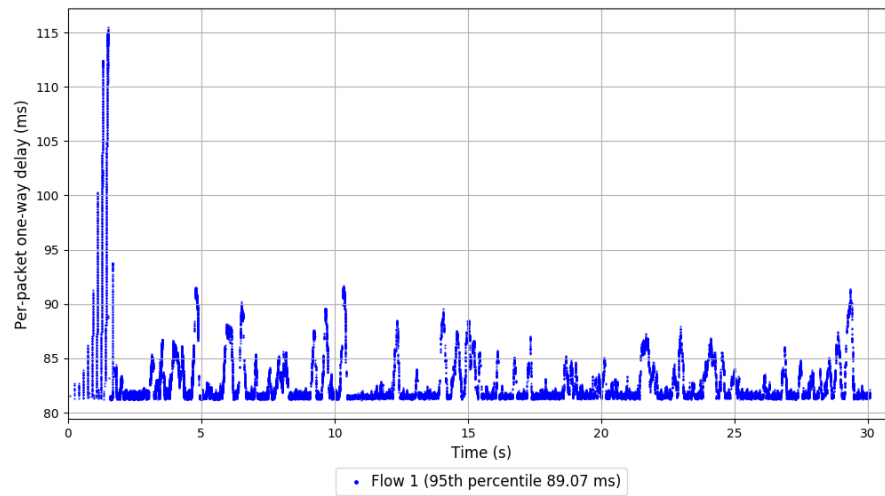
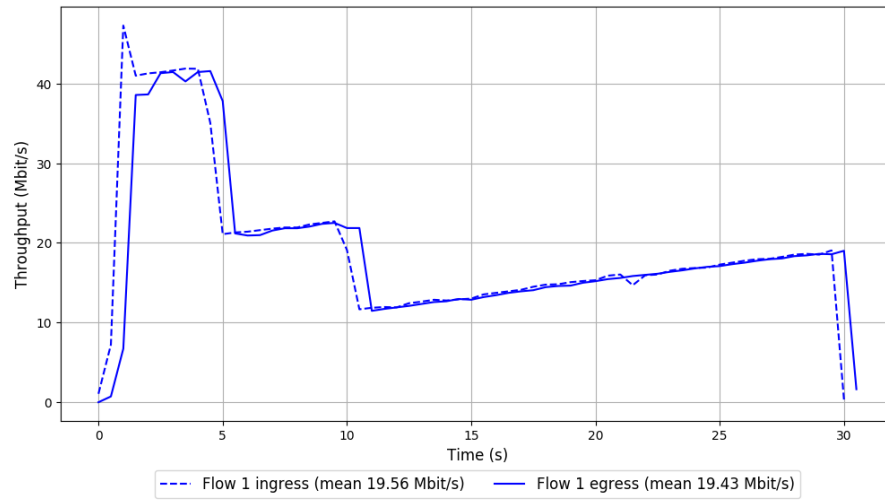
-- Flow 1:

Average throughput: 19.43 Mbit/s

95th percentile per-packet one-way delay: 89.070 ms

Loss rate: 0.63%

Run 4: Report of TCP Vegas — Data Link

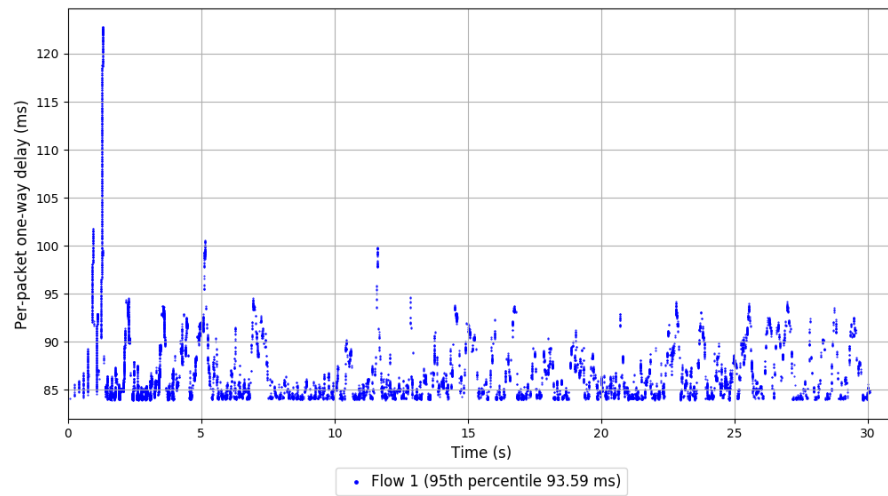
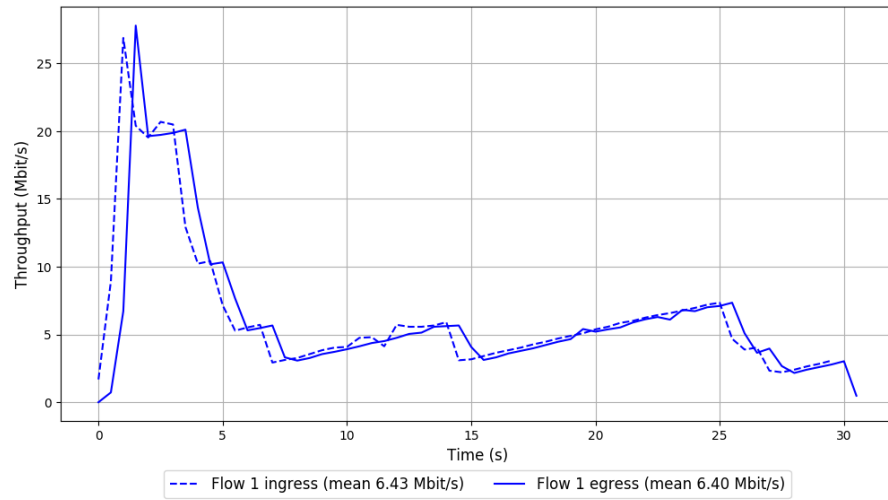


Run 5: Statistics of TCP Vegas

Start at: 2018-08-09 02:20:29
End at: 2018-08-09 02:20:59
Local clock offset: -2.637 ms
Remote clock offset: 11.701 ms

Below is generated by plot.py at 2018-08-09 04:35:53
Datalink statistics
-- Total of 1 flow:
Average throughput: 6.40 Mbit/s
95th percentile per-packet one-way delay: 93.595 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 6.40 Mbit/s
95th percentile per-packet one-way delay: 93.595 ms
Loss rate: 0.45%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-08-09 02:40:16

End at: 2018-08-09 02:40:46

Local clock offset: -2.466 ms

Remote clock offset: 6.345 ms

Below is generated by plot.py at 2018-08-09 04:35:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.96 Mbit/s

95th percentile per-packet one-way delay: 91.928 ms

Loss rate: 0.96%

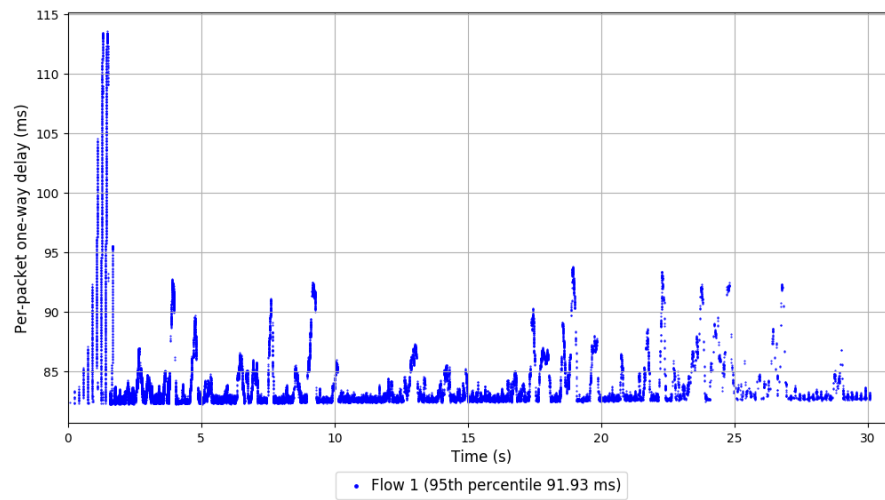
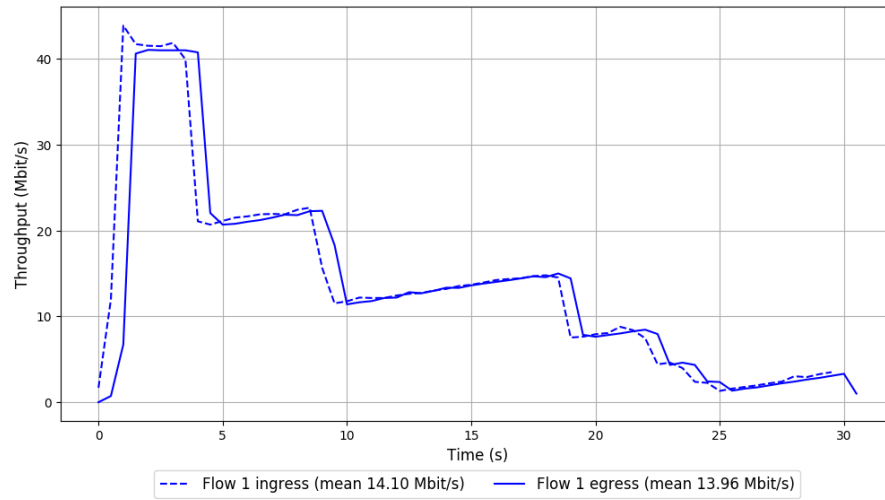
-- Flow 1:

Average throughput: 13.96 Mbit/s

95th percentile per-packet one-way delay: 91.928 ms

Loss rate: 0.96%

Run 6: Report of TCP Vegas — Data Link

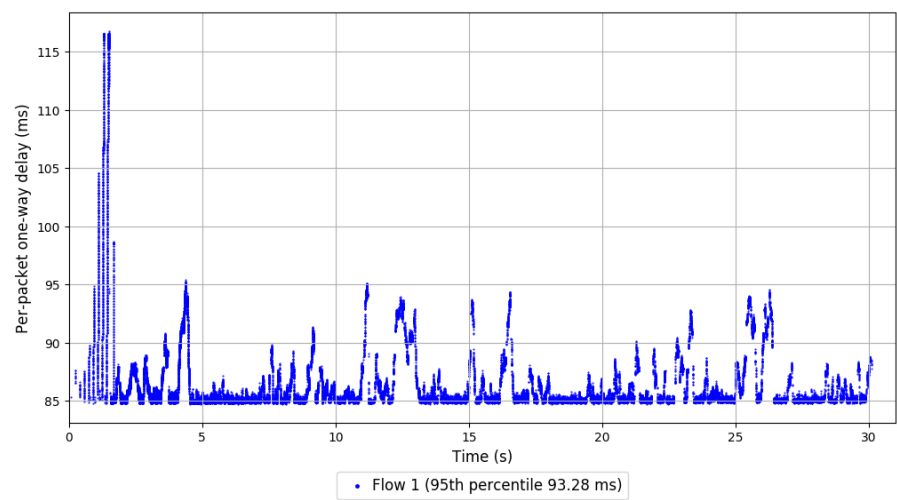
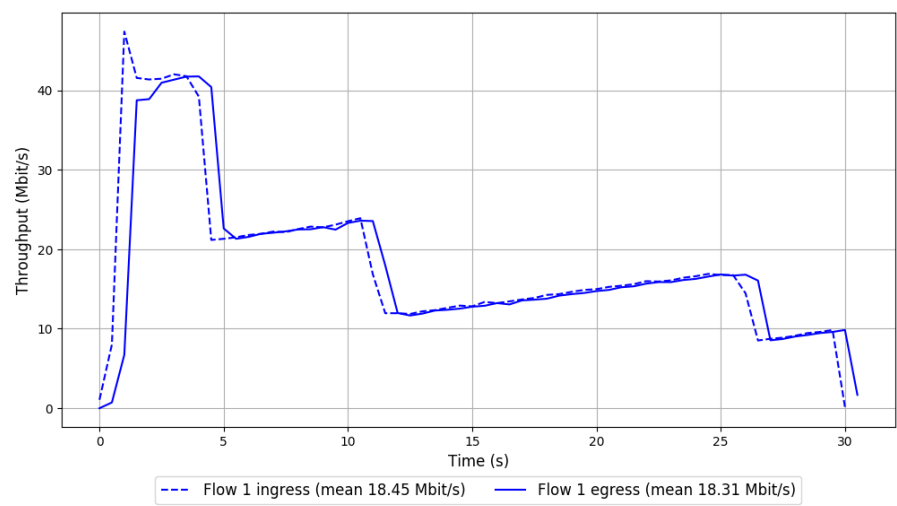


Run 7: Statistics of TCP Vegas

Start at: 2018-08-09 03:00:09
End at: 2018-08-09 03:00:39
Local clock offset: -6.488 ms
Remote clock offset: 2.872 ms

Below is generated by plot.py at 2018-08-09 04:35:53
Datalink statistics
-- Total of 1 flow:
Average throughput: 18.31 Mbit/s
95th percentile per-packet one-way delay: 93.280 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 18.31 Mbit/s
95th percentile per-packet one-way delay: 93.280 ms
Loss rate: 0.71%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-08-09 03:20:12

End at: 2018-08-09 03:20:42

Local clock offset: -7.938 ms

Remote clock offset: 0.401 ms

Below is generated by plot.py at 2018-08-09 04:35:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 40.80 Mbit/s

95th percentile per-packet one-way delay: 82.512 ms

Loss rate: 0.30%

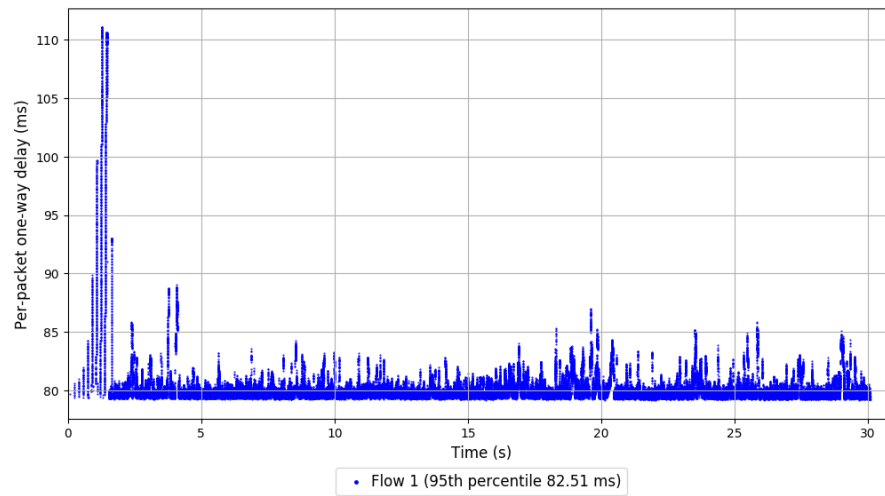
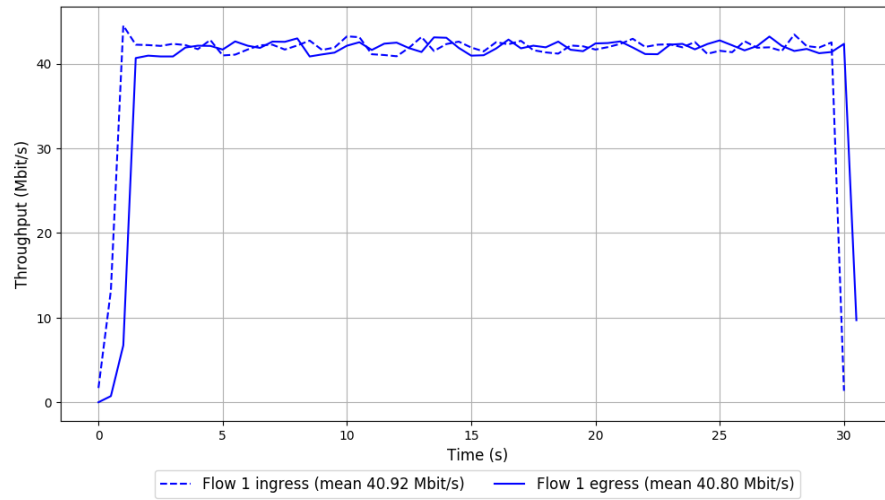
-- Flow 1:

Average throughput: 40.80 Mbit/s

95th percentile per-packet one-way delay: 82.512 ms

Loss rate: 0.30%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-08-09 03:40:04

End at: 2018-08-09 03:40:34

Local clock offset: -8.595 ms

Remote clock offset: 1.26 ms

Below is generated by plot.py at 2018-08-09 04:35:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 39.81 Mbit/s

95th percentile per-packet one-way delay: 81.656 ms

Loss rate: 0.31%

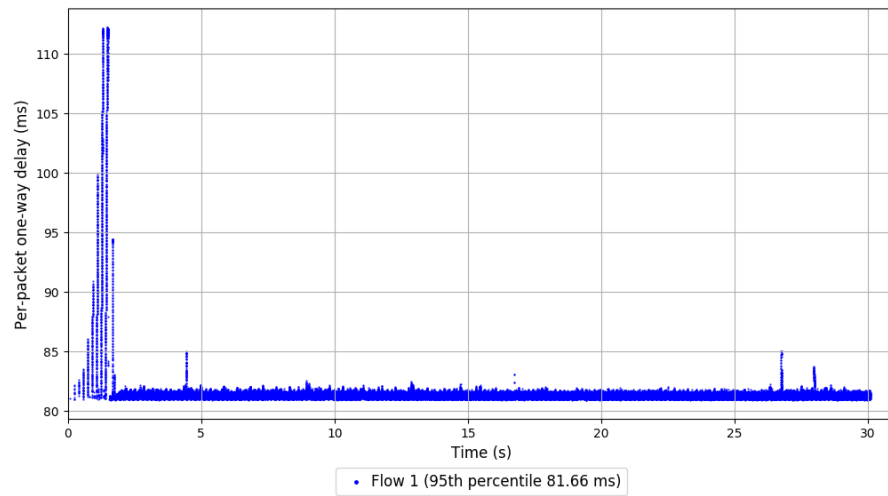
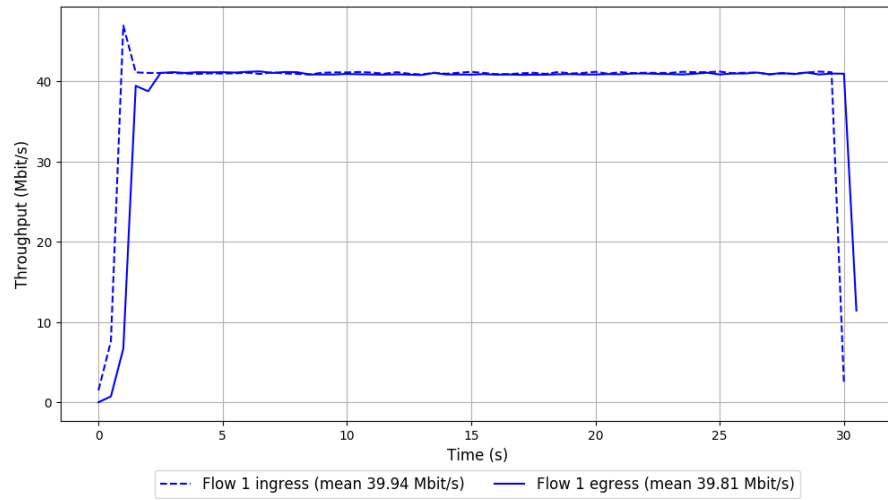
-- Flow 1:

Average throughput: 39.81 Mbit/s

95th percentile per-packet one-way delay: 81.656 ms

Loss rate: 0.31%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-08-09 04:00:00

End at: 2018-08-09 04:00:30

Local clock offset: -2.378 ms

Remote clock offset: 2.567 ms

Below is generated by plot.py at 2018-08-09 04:35:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 45.85 Mbit/s

95th percentile per-packet one-way delay: 85.782 ms

Loss rate: 0.27%

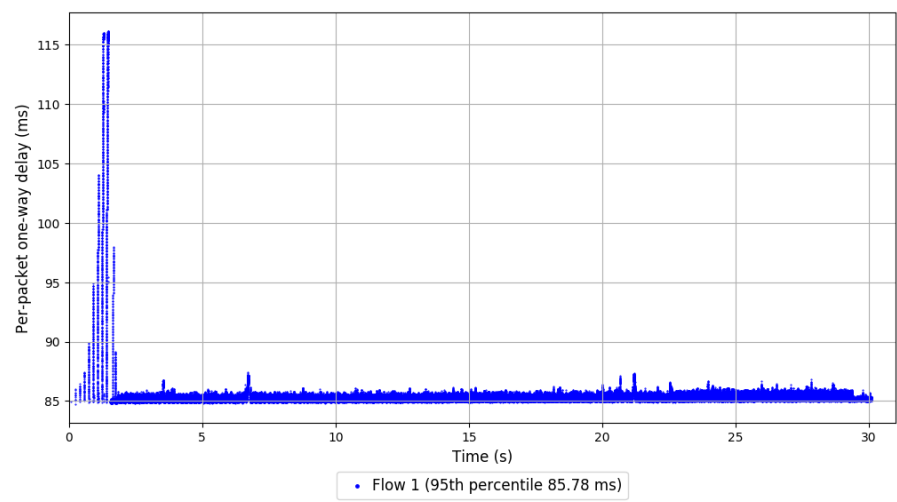
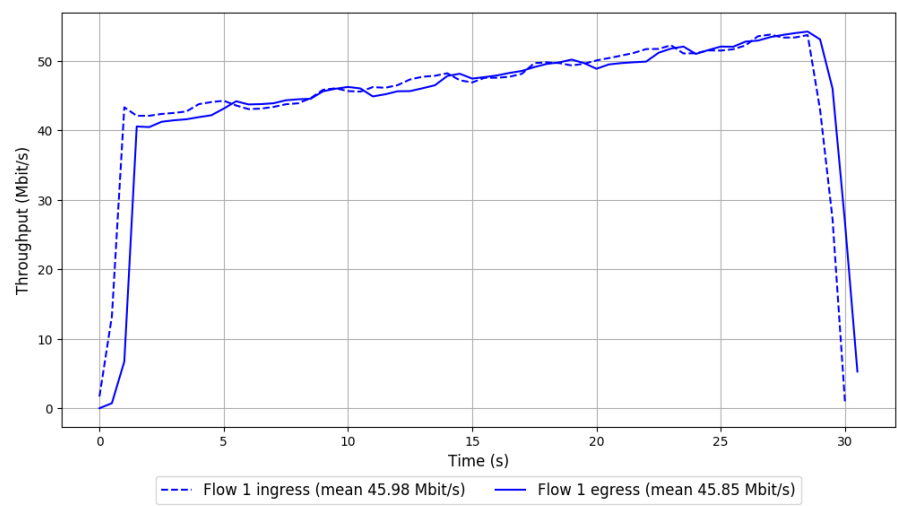
-- Flow 1:

Average throughput: 45.85 Mbit/s

95th percentile per-packet one-way delay: 85.782 ms

Loss rate: 0.27%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-08-09 01:10:53

End at: 2018-08-09 01:11:23

Local clock offset: -8.923 ms

Remote clock offset: 2.848 ms

Below is generated by plot.py at 2018-08-09 04:36:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 46.34 Mbit/s

95th percentile per-packet one-way delay: 188.410 ms

Loss rate: 88.52%

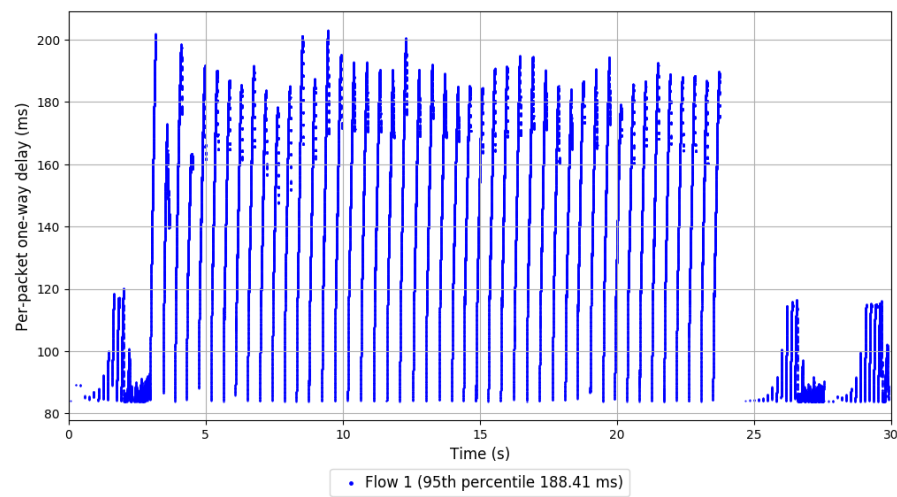
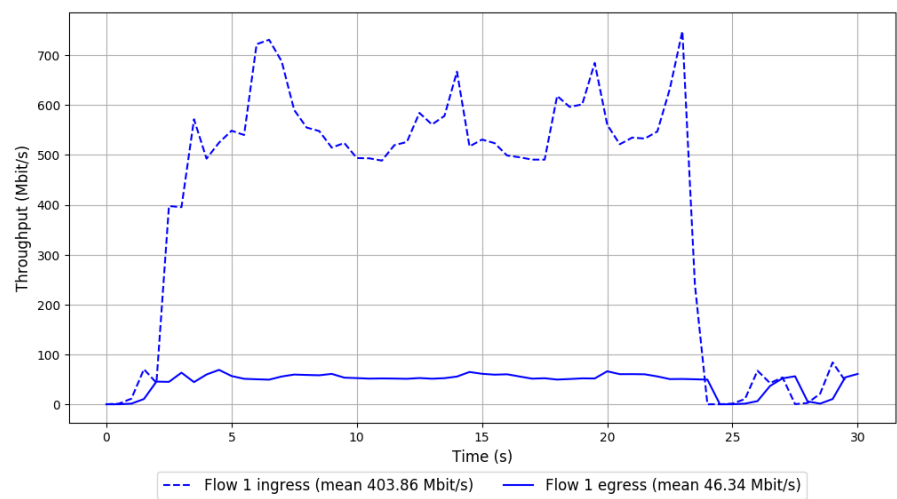
-- Flow 1:

Average throughput: 46.34 Mbit/s

95th percentile per-packet one-way delay: 188.410 ms

Loss rate: 88.52%

Run 1: Report of Verus — Data Link

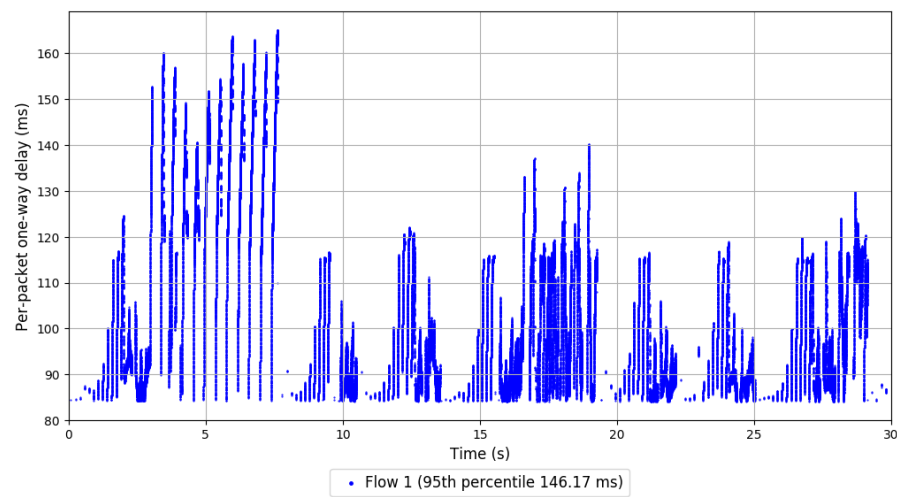
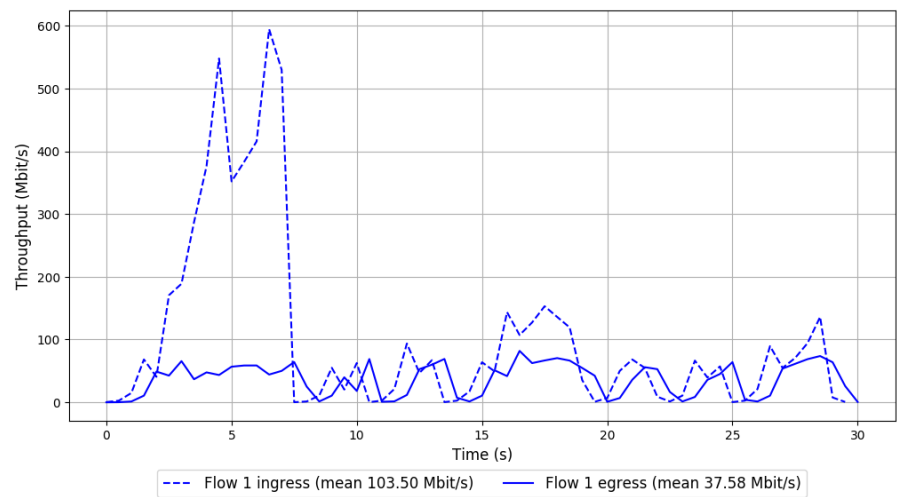


Run 2: Statistics of Verus

Start at: 2018-08-09 01:30:36
End at: 2018-08-09 01:31:06
Local clock offset: -7.976 ms
Remote clock offset: 4.906 ms

Below is generated by plot.py at 2018-08-09 04:36:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 37.58 Mbit/s
95th percentile per-packet one-way delay: 146.166 ms
Loss rate: 63.69%
-- Flow 1:
Average throughput: 37.58 Mbit/s
95th percentile per-packet one-way delay: 146.166 ms
Loss rate: 63.69%

Run 2: Report of Verus — Data Link

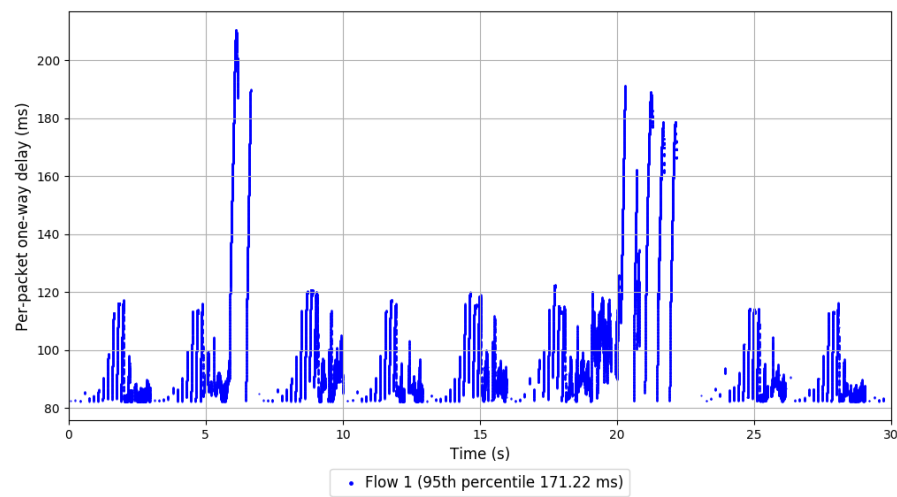
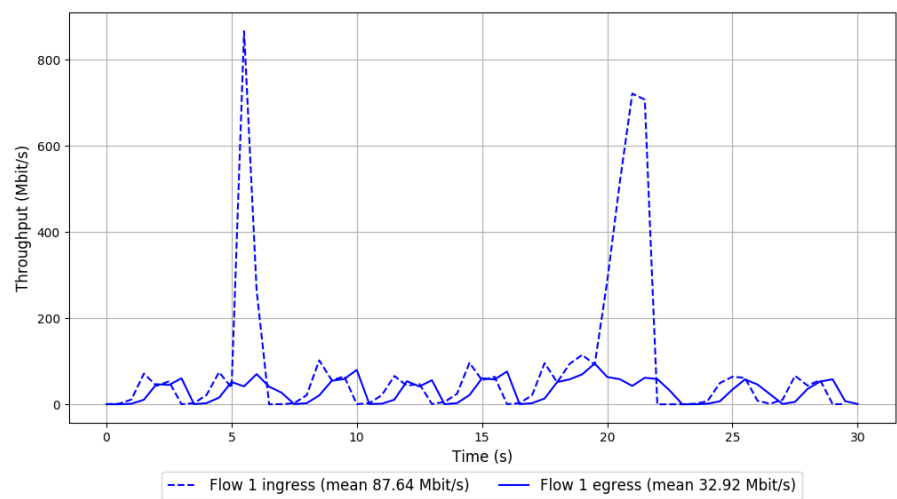


Run 3: Statistics of Verus

Start at: 2018-08-09 01:50:24
End at: 2018-08-09 01:50:54
Local clock offset: -6.147 ms
Remote clock offset: 5.321 ms

Below is generated by plot.py at 2018-08-09 04:36:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 32.92 Mbit/s
95th percentile per-packet one-way delay: 171.215 ms
Loss rate: 62.43%
-- Flow 1:
Average throughput: 32.92 Mbit/s
95th percentile per-packet one-way delay: 171.215 ms
Loss rate: 62.43%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-08-09 02:10:01

End at: 2018-08-09 02:10:31

Local clock offset: -2.88 ms

Remote clock offset: 9.754 ms

Below is generated by plot.py at 2018-08-09 04:36:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 40.97 Mbit/s

95th percentile per-packet one-way delay: 150.327 ms

Loss rate: 65.32%

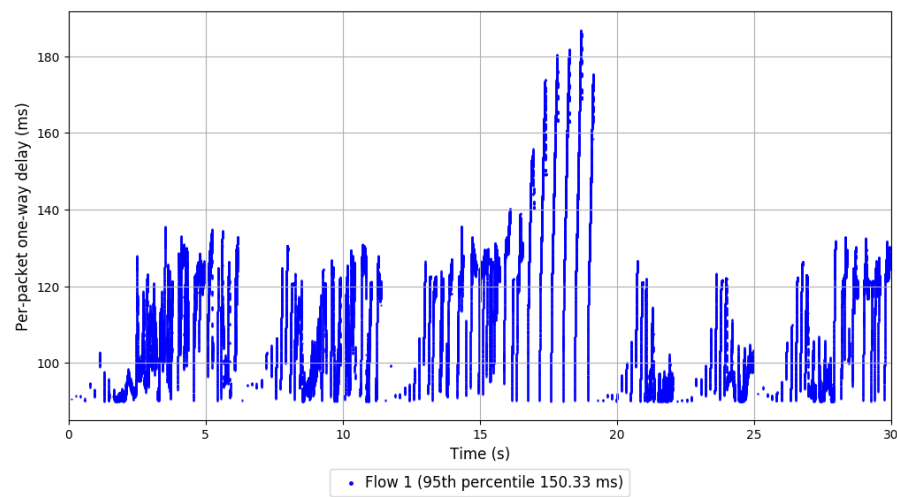
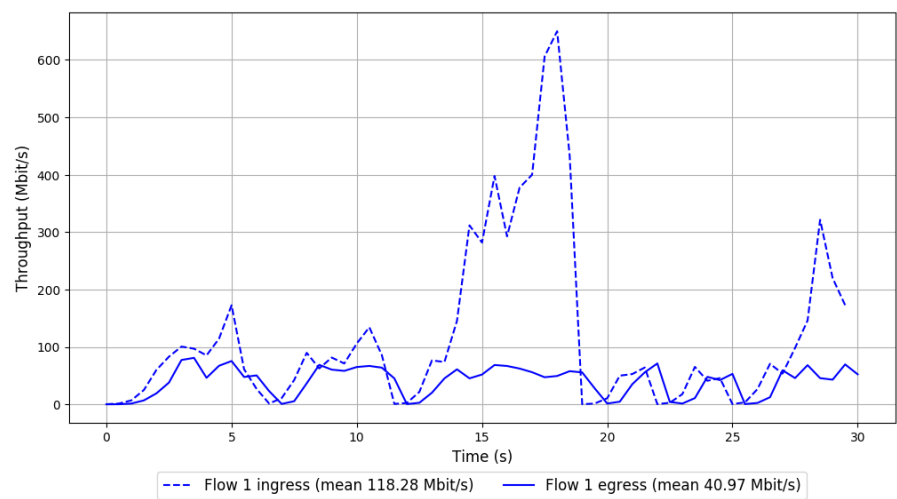
-- Flow 1:

Average throughput: 40.97 Mbit/s

95th percentile per-packet one-way delay: 150.327 ms

Loss rate: 65.32%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-08-09 02:29:45

End at: 2018-08-09 02:30:15

Local clock offset: -2.588 ms

Remote clock offset: 8.662 ms

Below is generated by plot.py at 2018-08-09 04:36:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 41.56 Mbit/s

95th percentile per-packet one-way delay: 185.426 ms

Loss rate: 82.29%

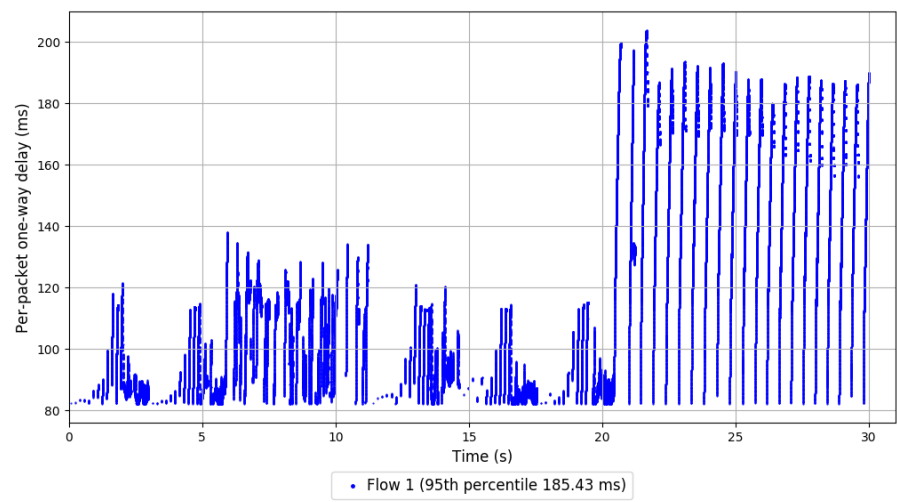
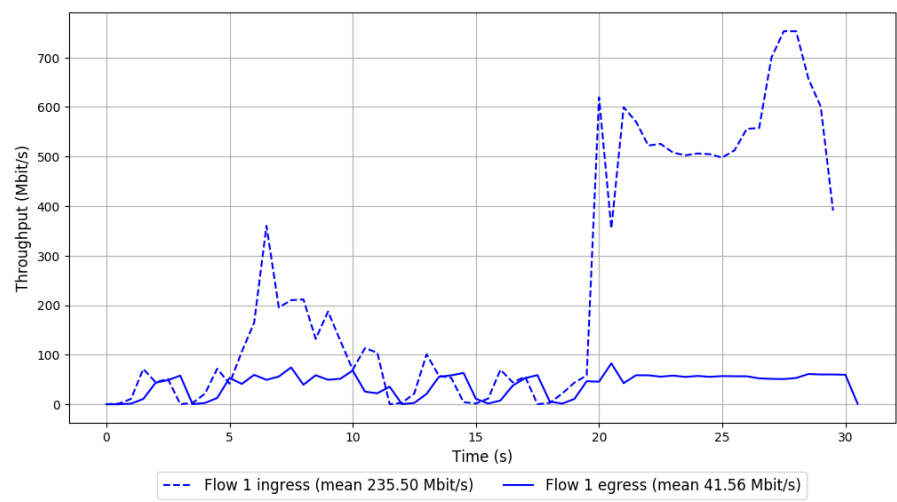
-- Flow 1:

Average throughput: 41.56 Mbit/s

95th percentile per-packet one-way delay: 185.426 ms

Loss rate: 82.29%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-08-09 02:49:39

End at: 2018-08-09 02:50:09

Local clock offset: -4.06 ms

Remote clock offset: 2.21 ms

Below is generated by plot.py at 2018-08-09 04:36:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 34.65 Mbit/s

95th percentile per-packet one-way delay: 176.991 ms

Loss rate: 73.31%

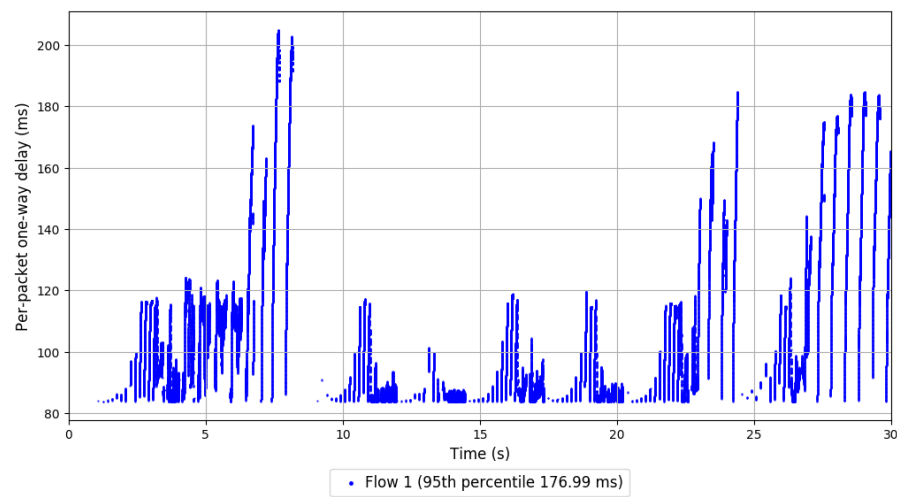
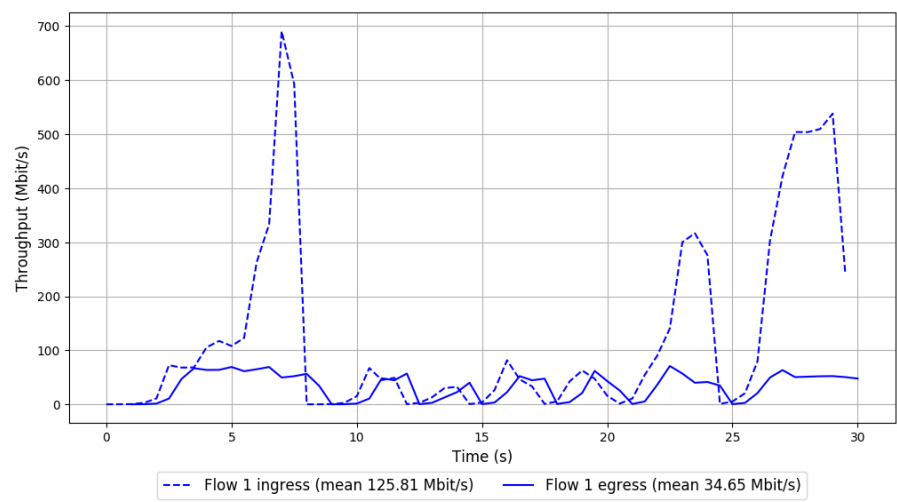
-- Flow 1:

Average throughput: 34.65 Mbit/s

95th percentile per-packet one-way delay: 176.991 ms

Loss rate: 73.31%

Run 6: Report of Verus — Data Link

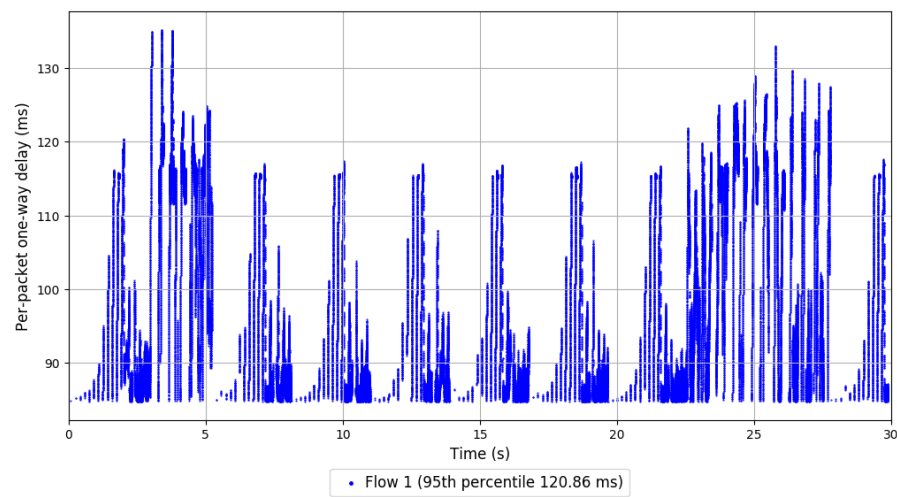
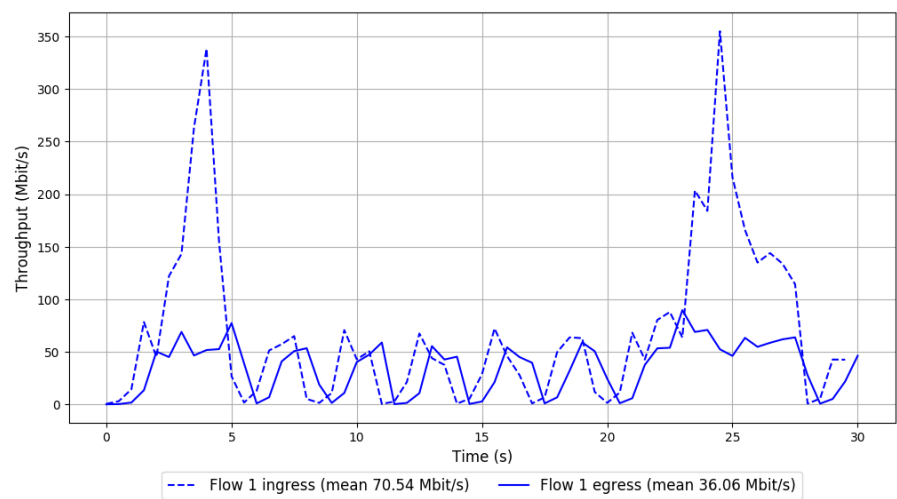


Run 7: Statistics of Verus

Start at: 2018-08-09 03:09:41
End at: 2018-08-09 03:10:11
Local clock offset: -7.354 ms
Remote clock offset: 1.884 ms

Below is generated by plot.py at 2018-08-09 04:36:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 36.06 Mbit/s
95th percentile per-packet one-way delay: 120.862 ms
Loss rate: 48.88%
-- Flow 1:
Average throughput: 36.06 Mbit/s
95th percentile per-packet one-way delay: 120.862 ms
Loss rate: 48.88%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-08-09 03:29:36

End at: 2018-08-09 03:30:06

Local clock offset: -8.268 ms

Remote clock offset: 2.145 ms

Below is generated by plot.py at 2018-08-09 04:36:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 31.90 Mbit/s

95th percentile per-packet one-way delay: 114.515 ms

Loss rate: 24.51%

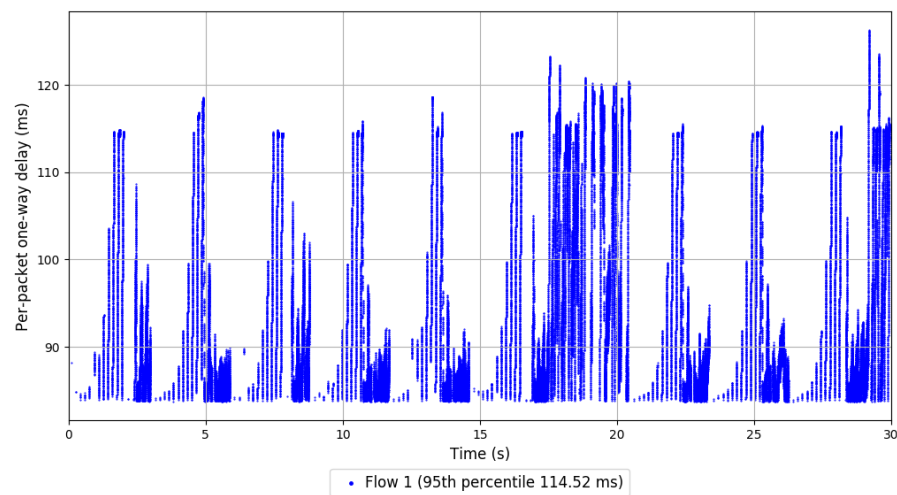
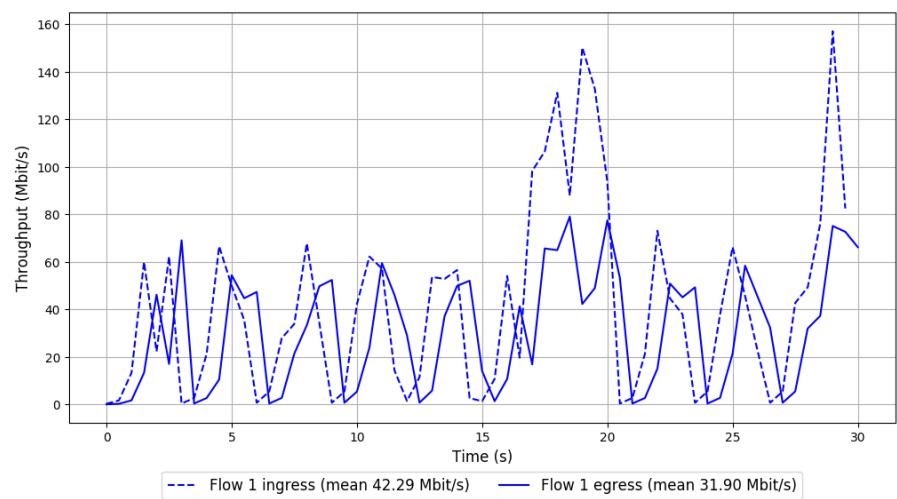
-- Flow 1:

Average throughput: 31.90 Mbit/s

95th percentile per-packet one-way delay: 114.515 ms

Loss rate: 24.51%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-08-09 03:49:29

End at: 2018-08-09 03:49:59

Local clock offset: -6.283 ms

Remote clock offset: 4.029 ms

Below is generated by plot.py at 2018-08-09 04:36:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 34.98 Mbit/s

95th percentile per-packet one-way delay: 178.119 ms

Loss rate: 79.33%

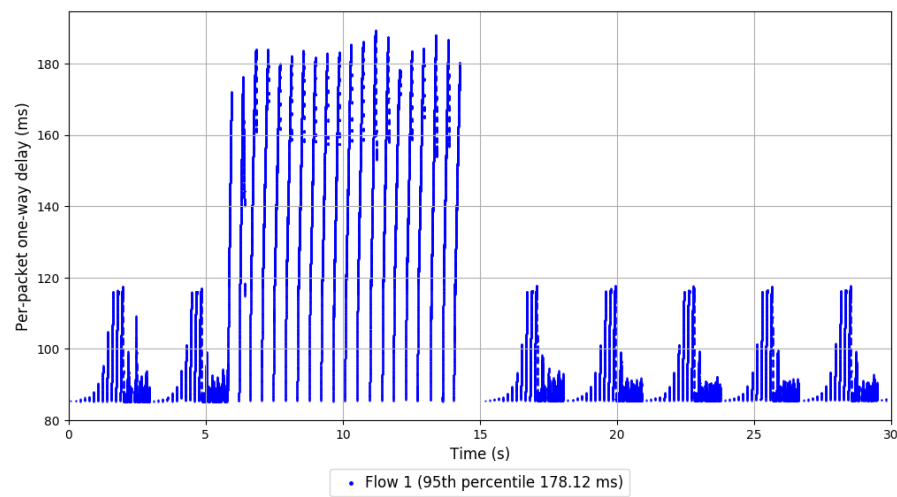
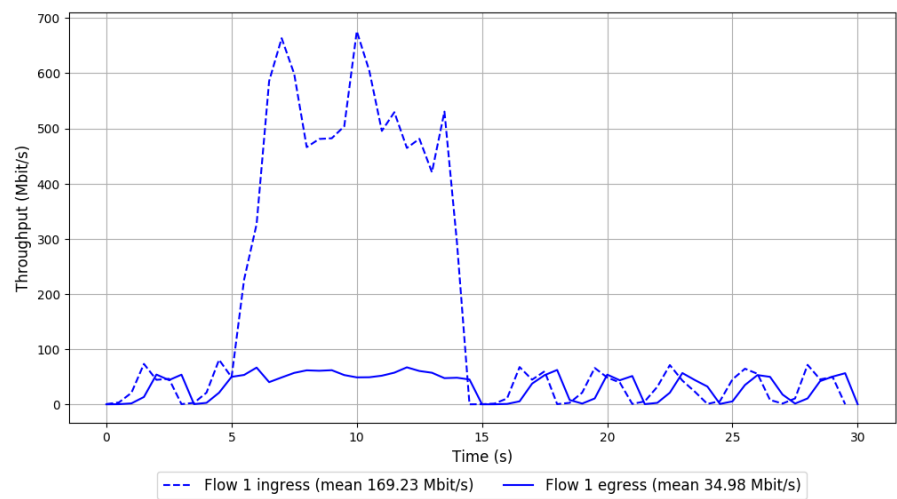
-- Flow 1:

Average throughput: 34.98 Mbit/s

95th percentile per-packet one-way delay: 178.119 ms

Loss rate: 79.33%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-08-09 04:09:25

End at: 2018-08-09 04:09:55

Local clock offset: -0.931 ms

Remote clock offset: 4.087 ms

Below is generated by plot.py at 2018-08-09 04:36:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 28.17 Mbit/s

95th percentile per-packet one-way delay: 115.854 ms

Loss rate: 9.96%

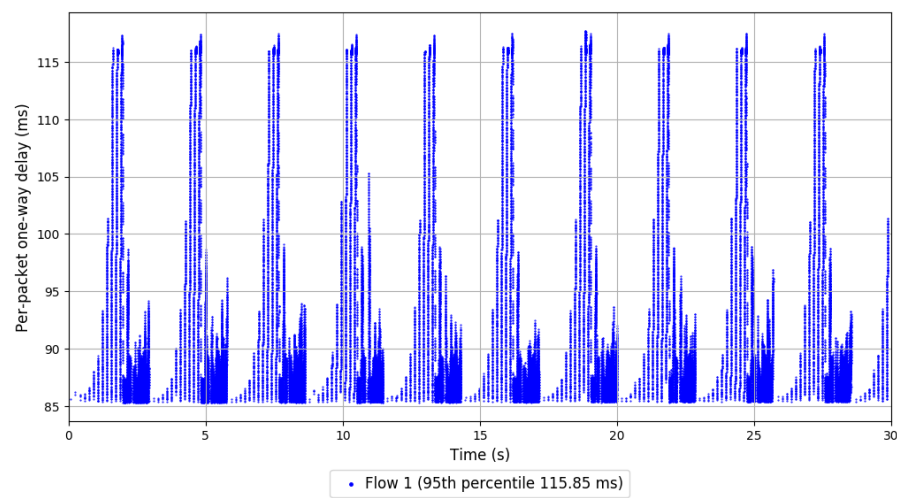
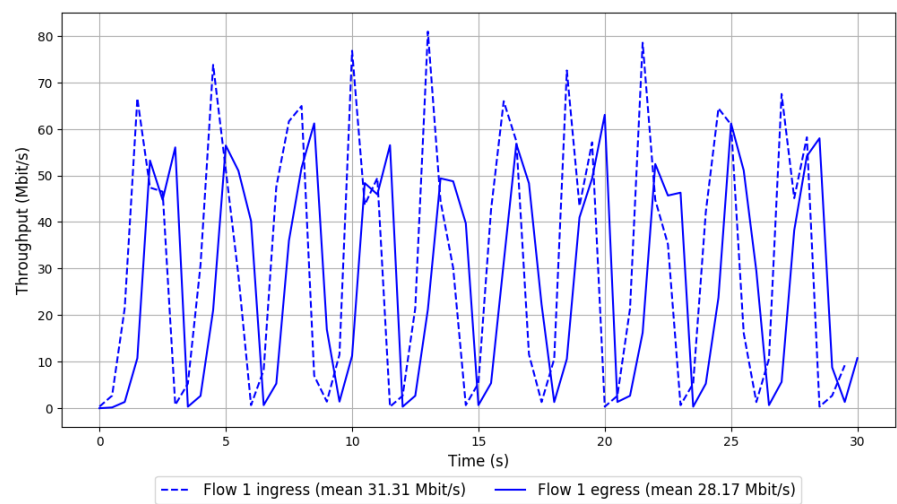
-- Flow 1:

Average throughput: 28.17 Mbit/s

95th percentile per-packet one-way delay: 115.854 ms

Loss rate: 9.96%

Run 10: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2018-08-09 01:04:59

End at: 2018-08-09 01:05:29

Local clock offset: -8.085 ms

Remote clock offset: 2.923 ms

Below is generated by plot.py at 2018-08-09 04:36:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 57.12 Mbit/s

95th percentile per-packet one-way delay: 90.073 ms

Loss rate: 0.05%

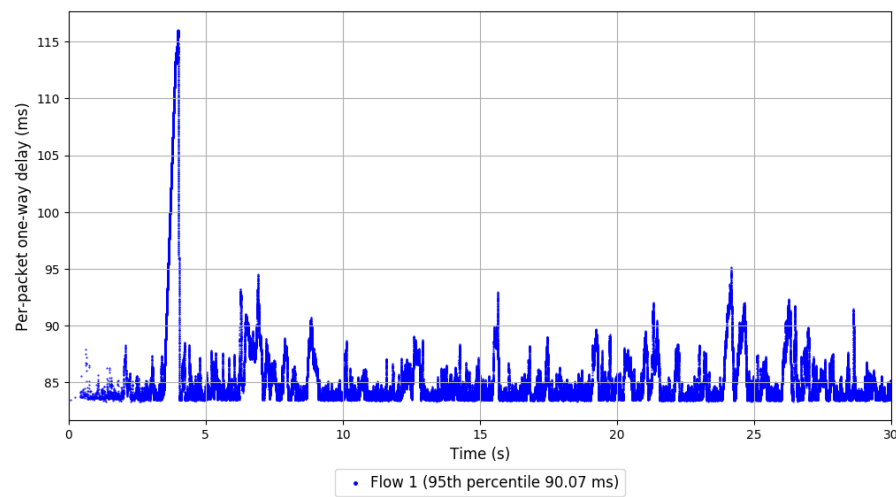
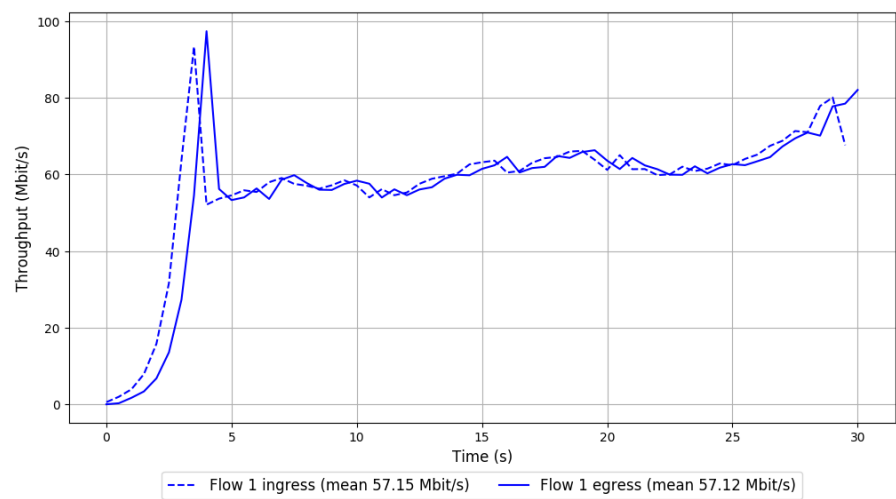
-- Flow 1:

Average throughput: 57.12 Mbit/s

95th percentile per-packet one-way delay: 90.073 ms

Loss rate: 0.05%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2018-08-09 01:24:50

End at: 2018-08-09 01:25:20

Local clock offset: -8.191 ms

Remote clock offset: 3.949 ms

Below is generated by plot.py at 2018-08-09 04:36:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.16 Mbit/s

95th percentile per-packet one-way delay: 92.865 ms

Loss rate: 0.13%

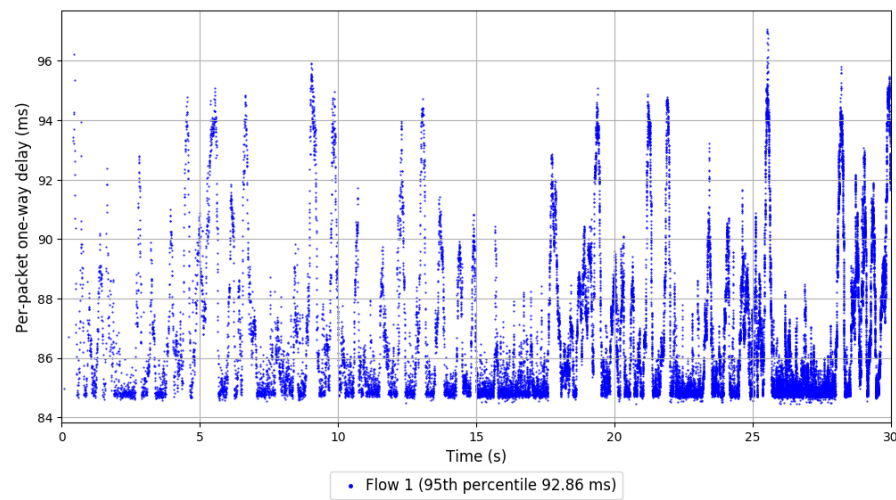
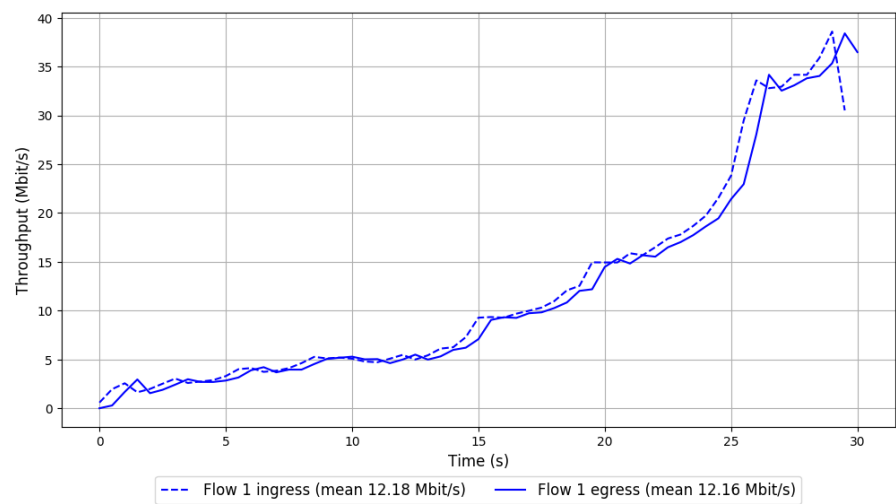
-- Flow 1:

Average throughput: 12.16 Mbit/s

95th percentile per-packet one-way delay: 92.865 ms

Loss rate: 0.13%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-08-09 01:44:34

End at: 2018-08-09 01:45:04

Local clock offset: -8.408 ms

Remote clock offset: 8.438 ms

Below is generated by plot.py at 2018-08-09 04:36:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 60.59 Mbit/s

95th percentile per-packet one-way delay: 96.258 ms

Loss rate: 0.16%

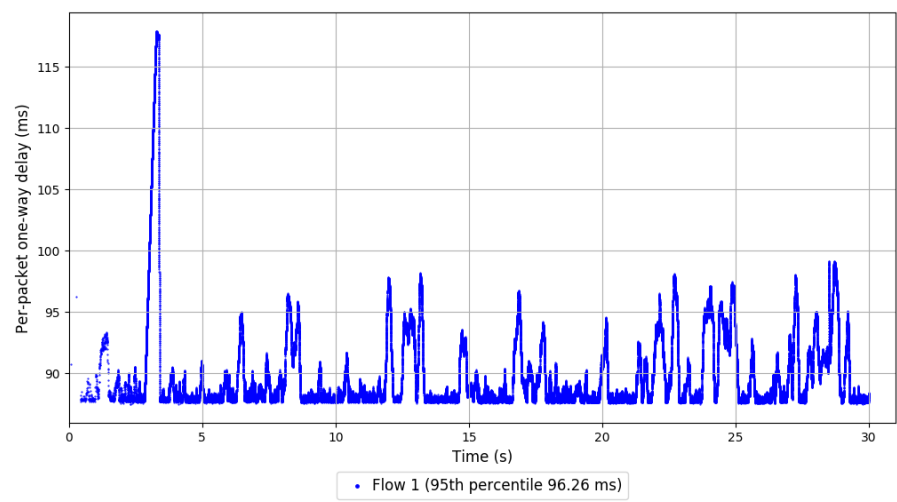
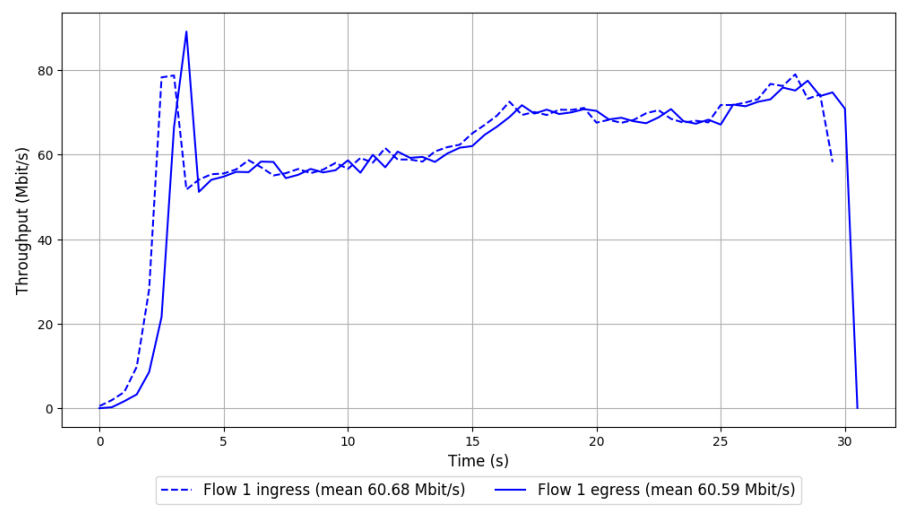
-- Flow 1:

Average throughput: 60.59 Mbit/s

95th percentile per-packet one-way delay: 96.258 ms

Loss rate: 0.16%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2018-08-09 02:04:17

End at: 2018-08-09 02:04:47

Local clock offset: -3.391 ms

Remote clock offset: 5.617 ms

Below is generated by plot.py at 2018-08-09 04:36:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.83 Mbit/s

95th percentile per-packet one-way delay: 88.719 ms

Loss rate: 0.08%

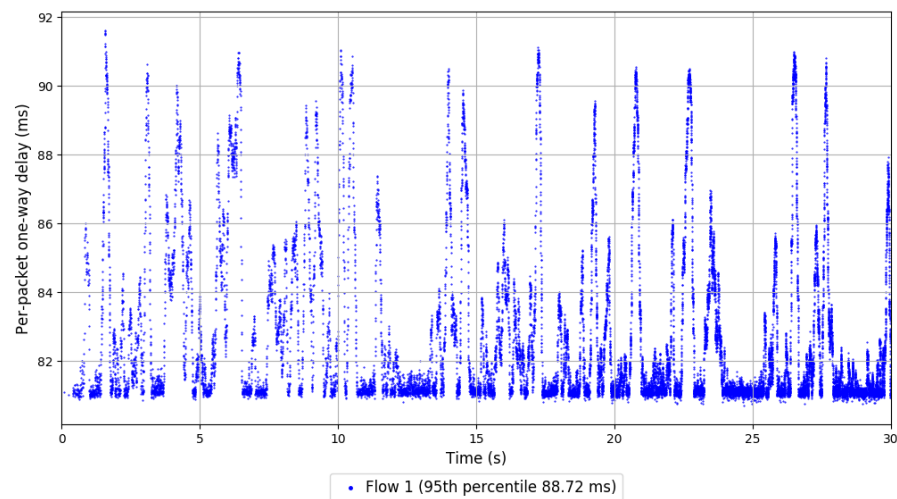
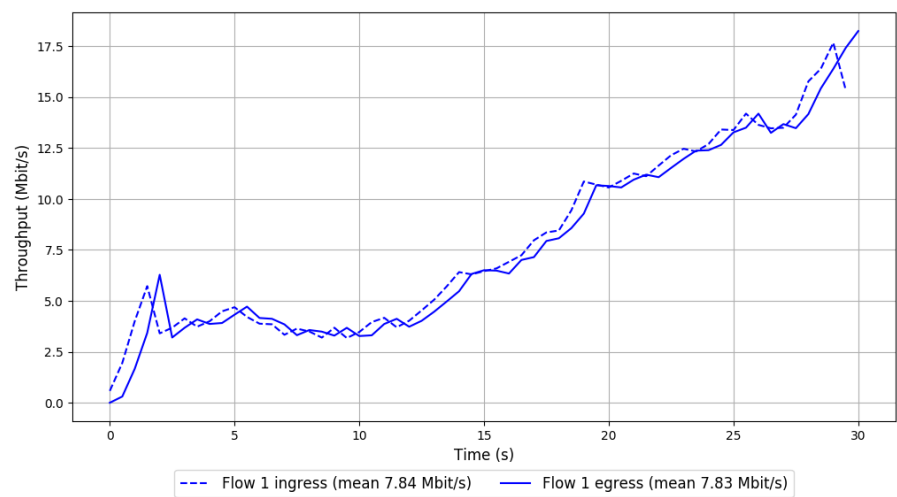
-- Flow 1:

Average throughput: 7.83 Mbit/s

95th percentile per-packet one-way delay: 88.719 ms

Loss rate: 0.08%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2018-08-09 02:23:57

End at: 2018-08-09 02:24:27

Local clock offset: -2.627 ms

Remote clock offset: 8.227 ms

Below is generated by plot.py at 2018-08-09 04:36:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.03 Mbit/s

95th percentile per-packet one-way delay: 87.154 ms

Loss rate: 0.08%

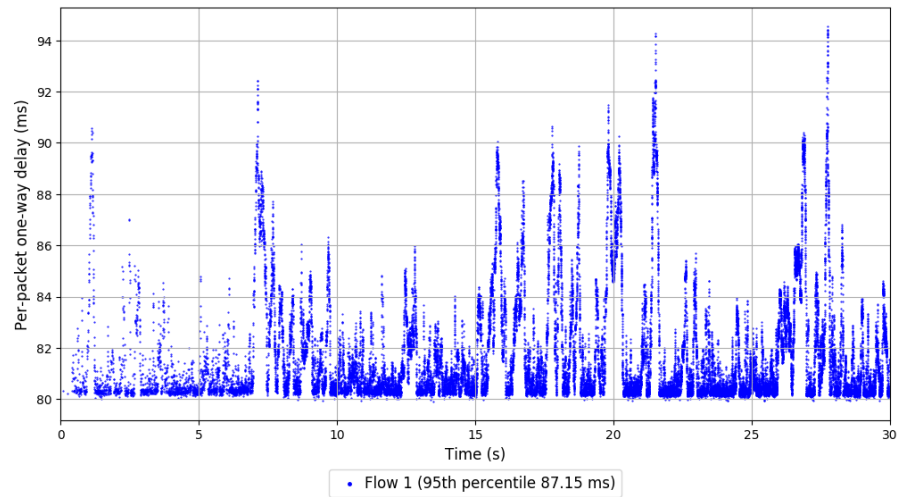
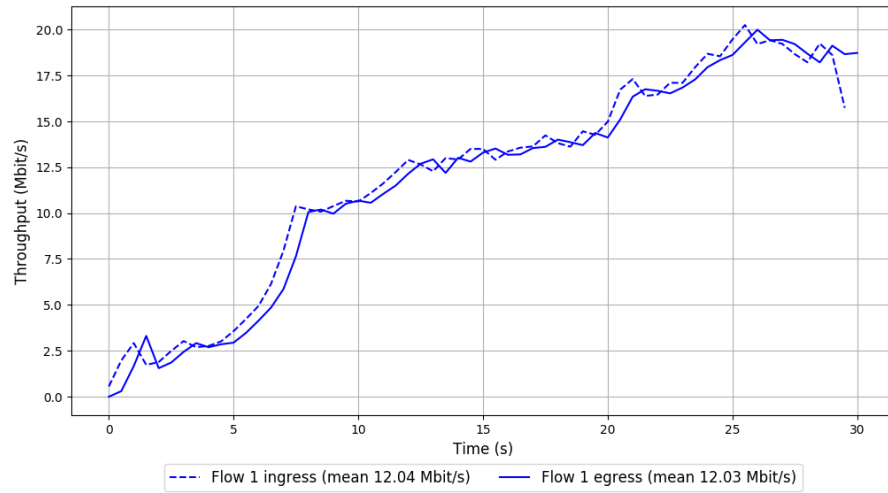
-- Flow 1:

Average throughput: 12.03 Mbit/s

95th percentile per-packet one-way delay: 87.154 ms

Loss rate: 0.08%

Run 5: Report of PCC-Vivace — Data Link



Run 6: Statistics of PCC-Vivace

Start at: 2018-08-09 02:43:42

End at: 2018-08-09 02:44:12

Local clock offset: -2.39 ms

Remote clock offset: 8.021 ms

Below is generated by plot.py at 2018-08-09 04:37:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.98 Mbit/s

95th percentile per-packet one-way delay: 95.593 ms

Loss rate: 0.10%

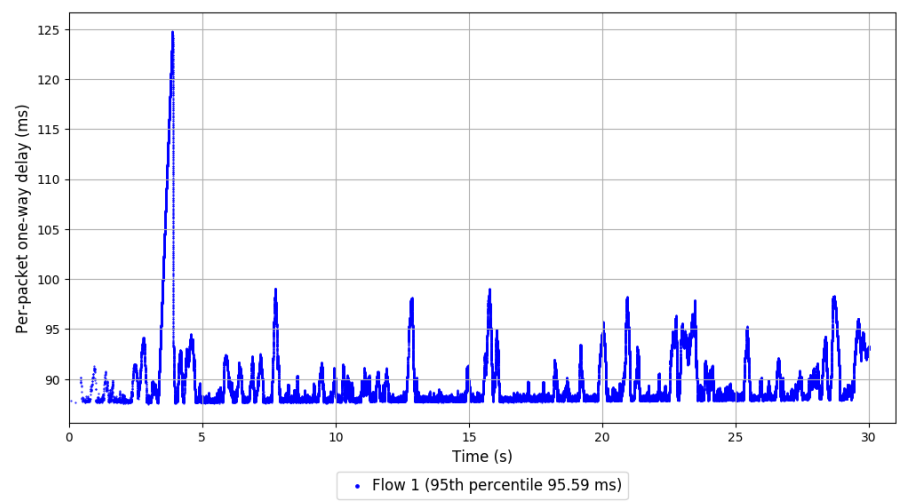
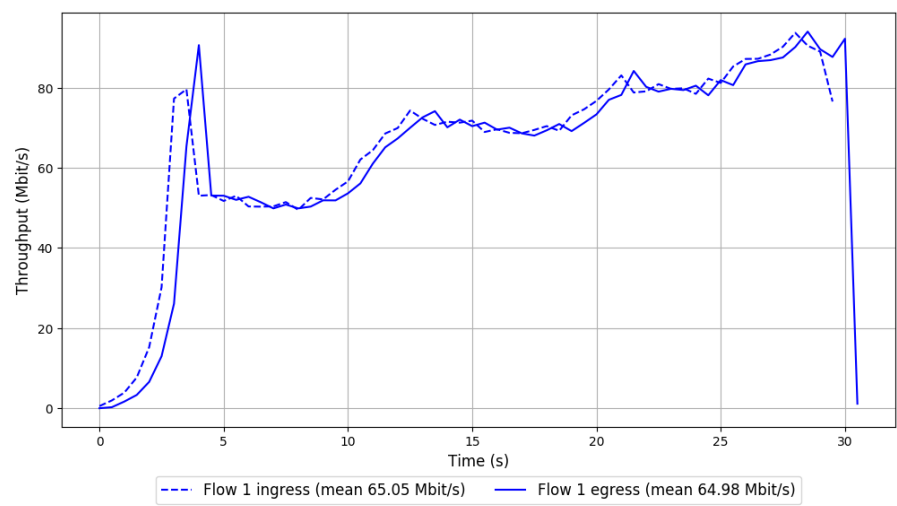
-- Flow 1:

Average throughput: 64.98 Mbit/s

95th percentile per-packet one-way delay: 95.593 ms

Loss rate: 0.10%

Run 6: Report of PCC-Vivace — Data Link

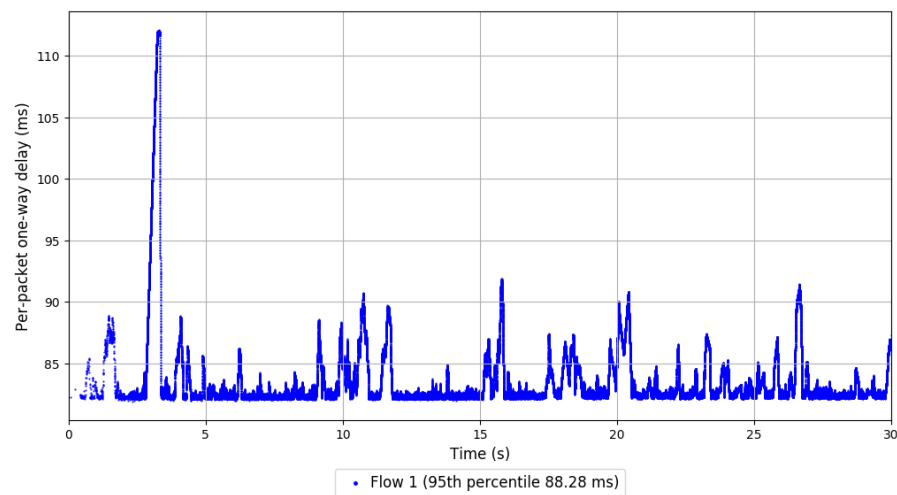
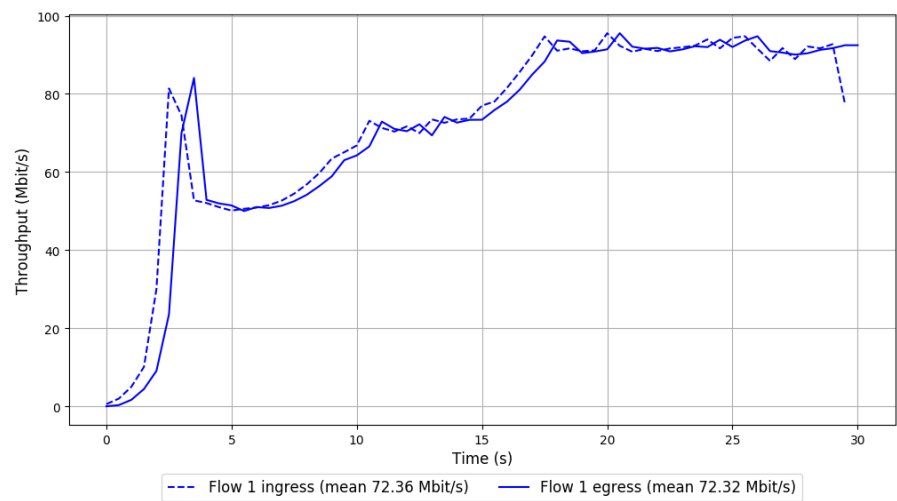


Run 7: Statistics of PCC-Vivace

Start at: 2018-08-09 03:03:43
End at: 2018-08-09 03:04:13
Local clock offset: -6.812 ms
Remote clock offset: -0.166 ms

Below is generated by plot.py at 2018-08-09 04:37:10
Datalink statistics
-- Total of 1 flow:
Average throughput: 72.32 Mbit/s
95th percentile per-packet one-way delay: 88.279 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 72.32 Mbit/s
95th percentile per-packet one-way delay: 88.279 ms
Loss rate: 0.03%

Run 7: Report of PCC-Vivace — Data Link



Run 8: Statistics of PCC-Vivace

Start at: 2018-08-09 03:23:42

End at: 2018-08-09 03:24:12

Local clock offset: -7.983 ms

Remote clock offset: 0.636 ms

Below is generated by plot.py at 2018-08-09 04:37:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.84 Mbit/s

95th percentile per-packet one-way delay: 109.393 ms

Loss rate: 0.14%

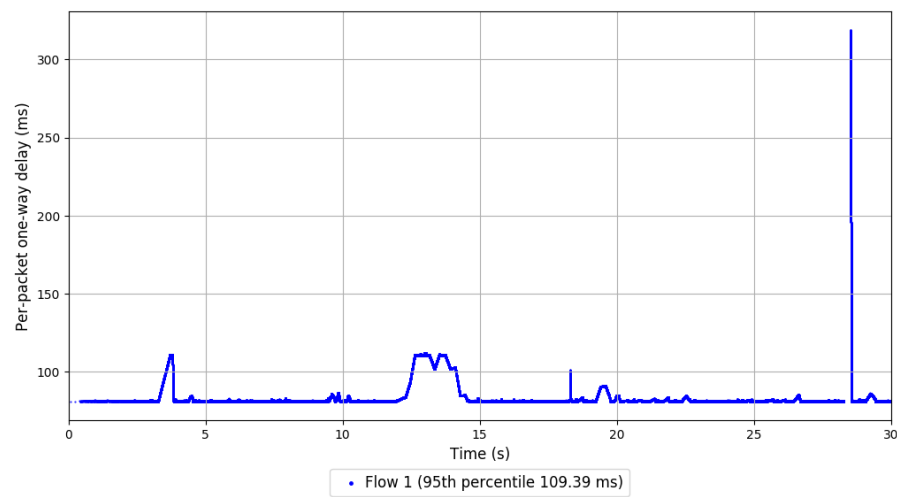
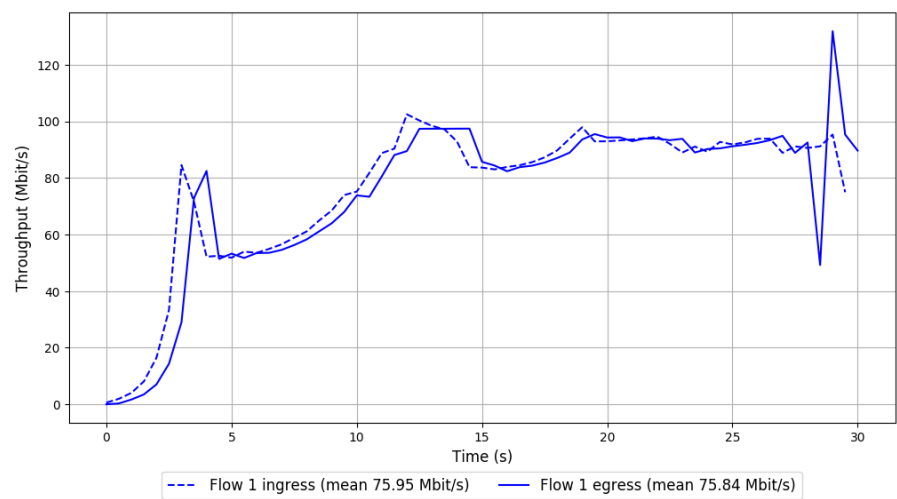
-- Flow 1:

Average throughput: 75.84 Mbit/s

95th percentile per-packet one-way delay: 109.393 ms

Loss rate: 0.14%

Run 8: Report of PCC-Vivace — Data Link



Run 9: Statistics of PCC-Vivace

Start at: 2018-08-09 03:43:34

End at: 2018-08-09 03:44:04

Local clock offset: -8.734 ms

Remote clock offset: 7.162 ms

Below is generated by plot.py at 2018-08-09 04:37:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.01 Mbit/s

95th percentile per-packet one-way delay: 110.795 ms

Loss rate: 0.14%

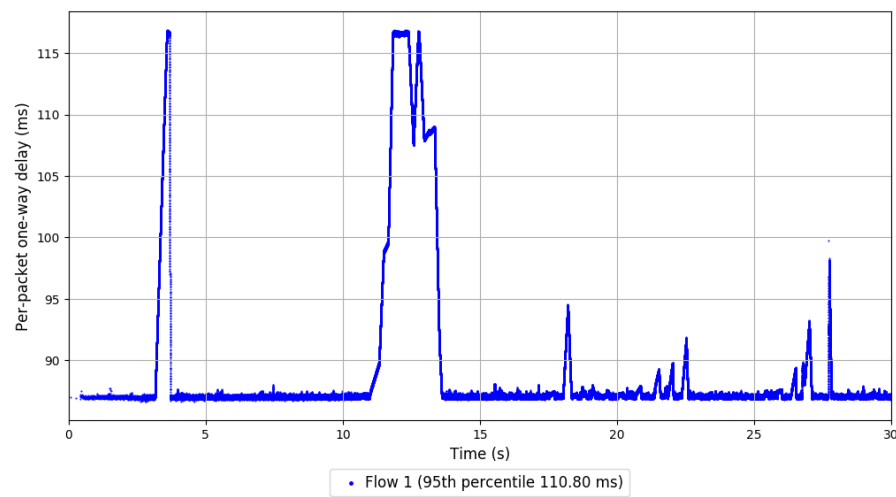
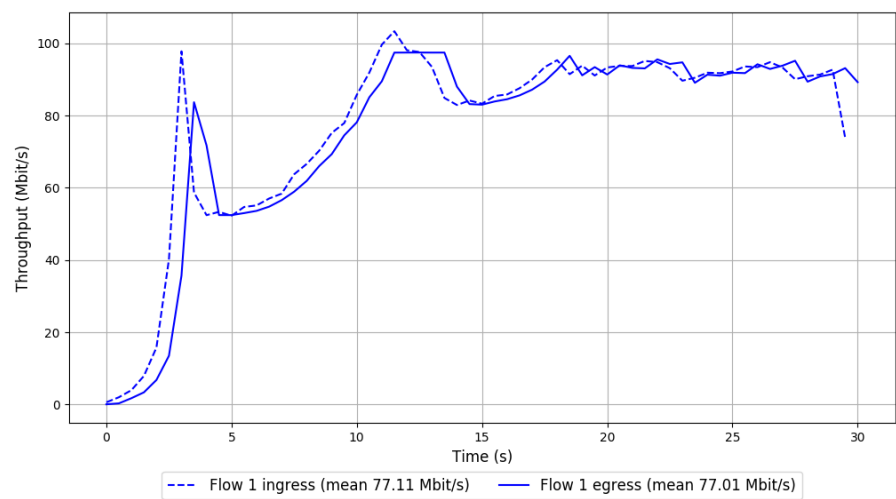
-- Flow 1:

Average throughput: 77.01 Mbit/s

95th percentile per-packet one-way delay: 110.795 ms

Loss rate: 0.14%

Run 9: Report of PCC-Vivace — Data Link



Run 10: Statistics of PCC-Vivace

Start at: 2018-08-09 04:03:30

End at: 2018-08-09 04:04:00

Local clock offset: -1.709 ms

Remote clock offset: 4.466 ms

Below is generated by plot.py at 2018-08-09 04:37:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.11 Mbit/s

95th percentile per-packet one-way delay: 91.794 ms

Loss rate: 0.05%

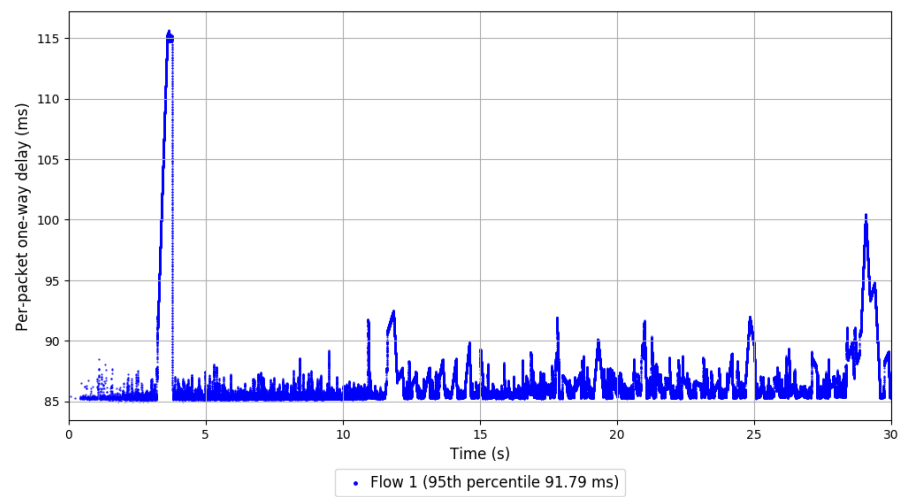
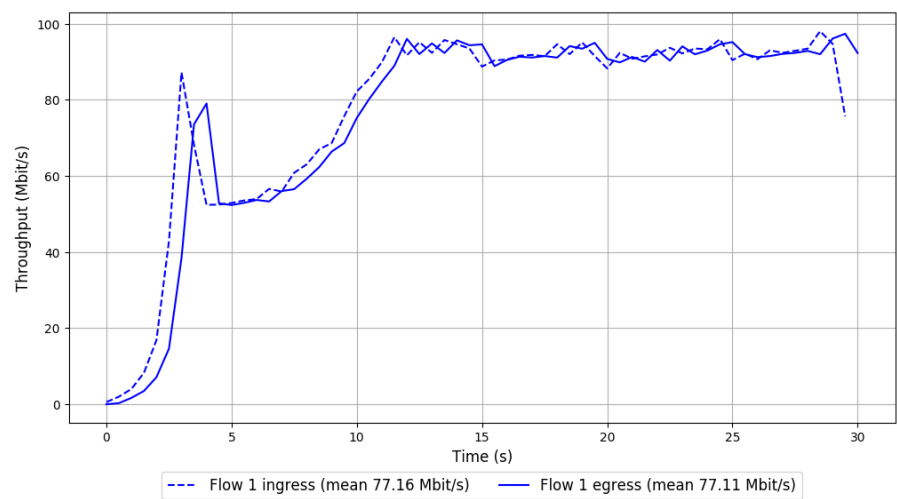
-- Flow 1:

Average throughput: 77.11 Mbit/s

95th percentile per-packet one-way delay: 91.794 ms

Loss rate: 0.05%

Run 10: Report of PCC-Vivace — Data Link

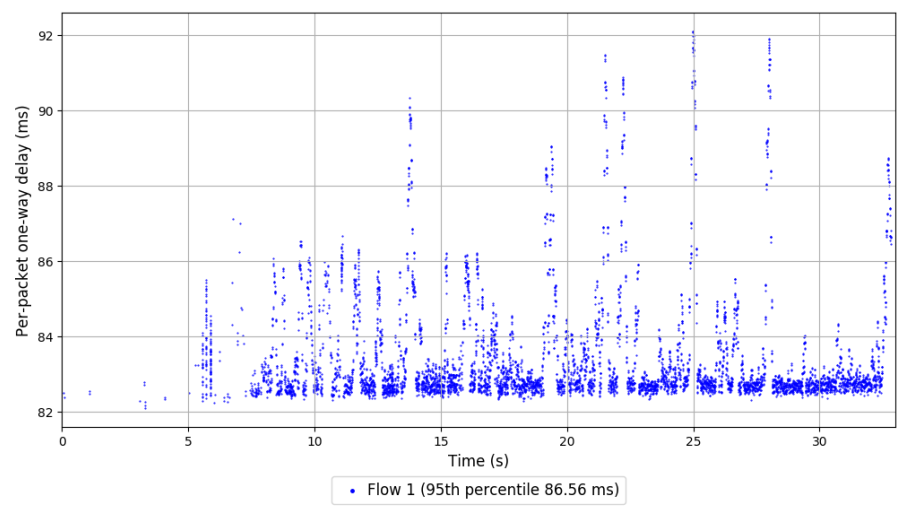
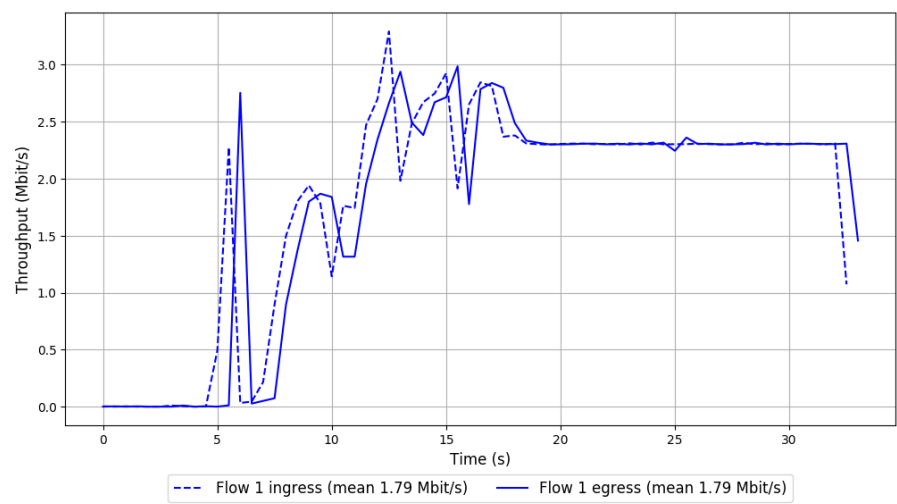


```
Run 1: Statistics of WebRTC media

Start at: 2018-08-09 01:16:52
End at: 2018-08-09 01:17:22
Local clock offset: -9.085 ms
Remote clock offset: 0.293 ms

# Below is generated by plot.py at 2018-08-09 04:37:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.79 Mbit/s
95th percentile per-packet one-way delay: 86.561 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.79 Mbit/s
95th percentile per-packet one-way delay: 86.561 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-08-09 01:36:30

End at: 2018-08-09 01:37:00

Local clock offset: -8.071 ms

Remote clock offset: 3.027 ms

Below is generated by plot.py at 2018-08-09 04:37:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.85 Mbit/s

95th percentile per-packet one-way delay: 94.529 ms

Loss rate: 0.13%

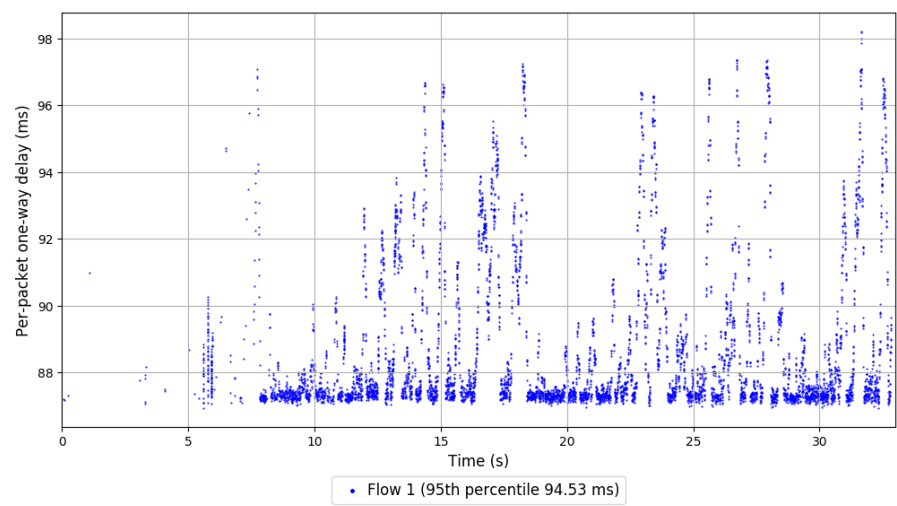
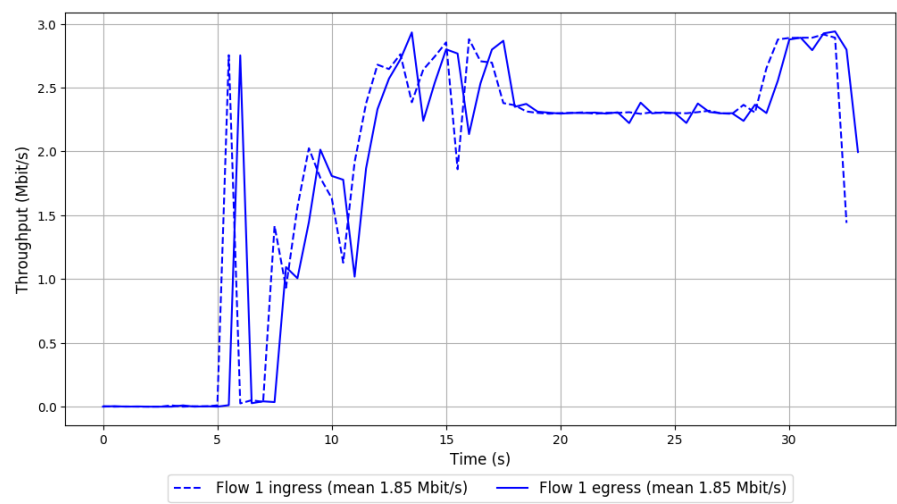
-- Flow 1:

Average throughput: 1.85 Mbit/s

95th percentile per-packet one-way delay: 94.529 ms

Loss rate: 0.13%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-08-09 01:56:19

End at: 2018-08-09 01:56:49

Local clock offset: -4.477 ms

Remote clock offset: 9.801 ms

Below is generated by plot.py at 2018-08-09 04:37:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.02 Mbit/s

95th percentile per-packet one-way delay: 97.361 ms

Loss rate: 0.09%

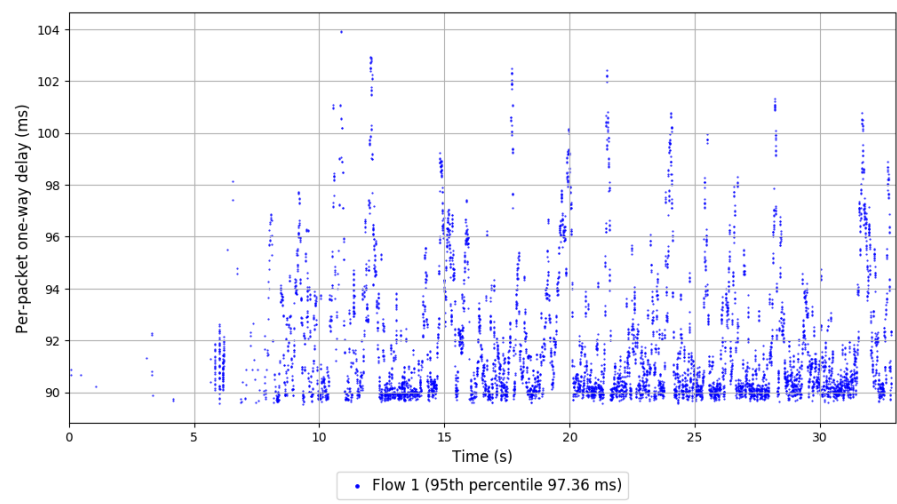
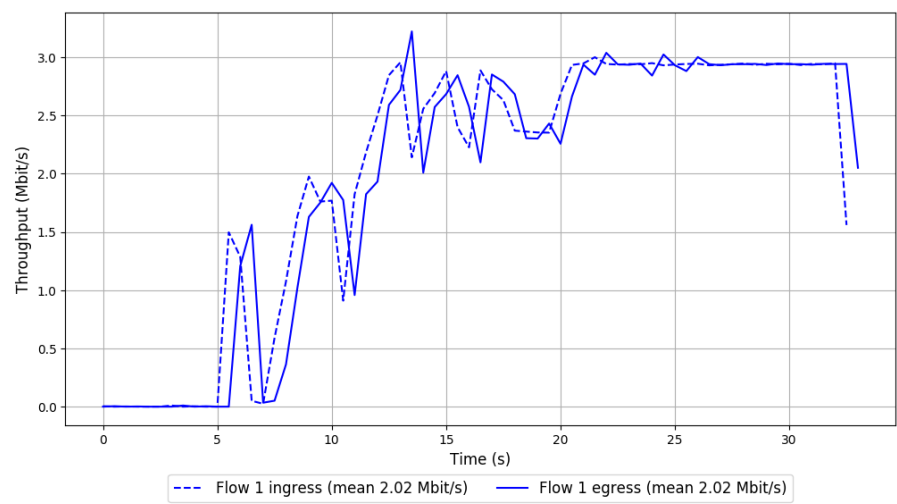
-- Flow 1:

Average throughput: 2.02 Mbit/s

95th percentile per-packet one-way delay: 97.361 ms

Loss rate: 0.09%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-08-09 02:15:55

End at: 2018-08-09 02:16:25

Local clock offset: -2.667 ms

Remote clock offset: 7.56 ms

Below is generated by plot.py at 2018-08-09 04:37:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.97 Mbit/s

95th percentile per-packet one-way delay: 89.124 ms

Loss rate: 0.07%

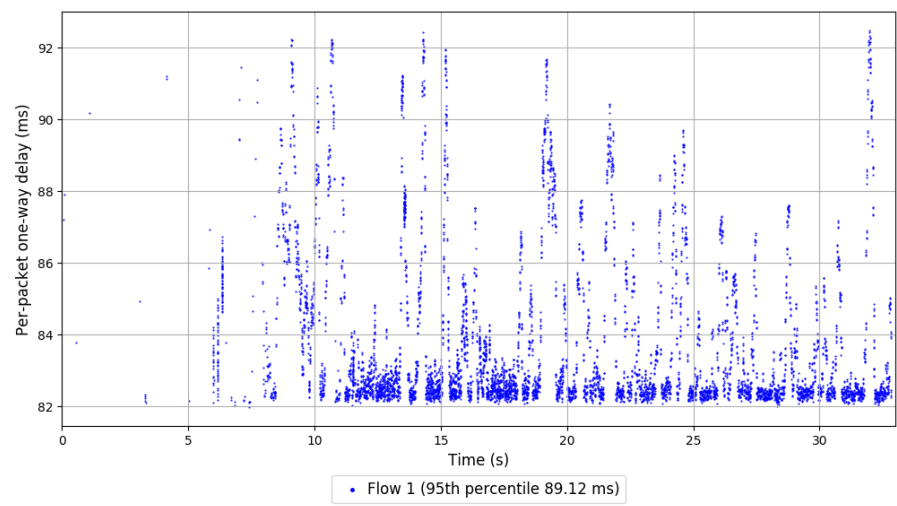
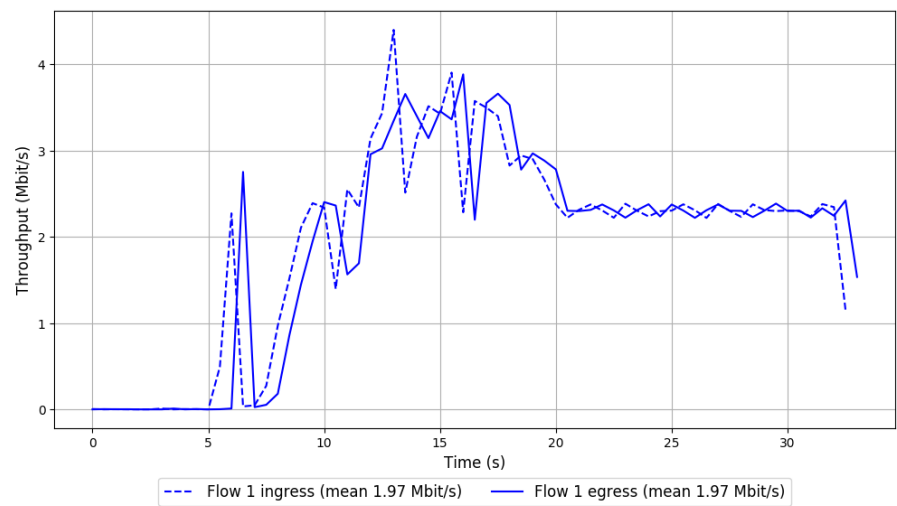
-- Flow 1:

Average throughput: 1.97 Mbit/s

95th percentile per-packet one-way delay: 89.124 ms

Loss rate: 0.07%

Run 4: Report of WebRTC media — Data Link

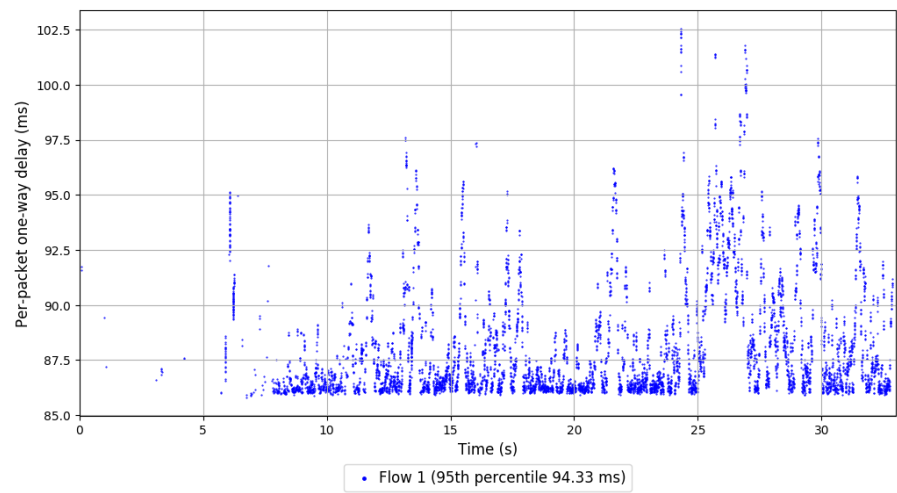
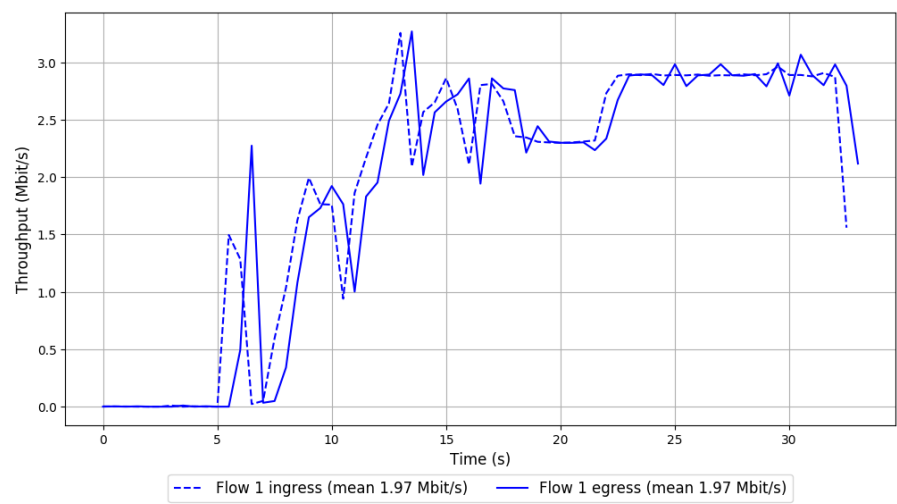


Run 5: Statistics of WebRTC media

Start at: 2018-08-09 02:35:43
End at: 2018-08-09 02:36:13
Local clock offset: -2.505 ms
Remote clock offset: 13.004 ms

Below is generated by plot.py at 2018-08-09 04:37:18
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.97 Mbit/s
95th percentile per-packet one-way delay: 94.329 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 1.97 Mbit/s
95th percentile per-packet one-way delay: 94.329 ms
Loss rate: 0.07%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-08-09 02:55:35

End at: 2018-08-09 02:56:05

Local clock offset: -5.619 ms

Remote clock offset: -0.21 ms

Below is generated by plot.py at 2018-08-09 04:37:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.74 Mbit/s

95th percentile per-packet one-way delay: 86.135 ms

Loss rate: 0.03%

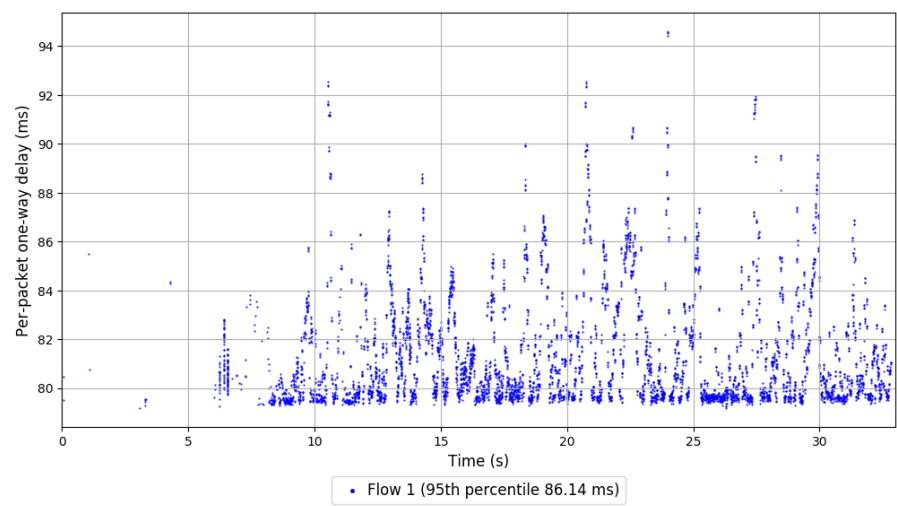
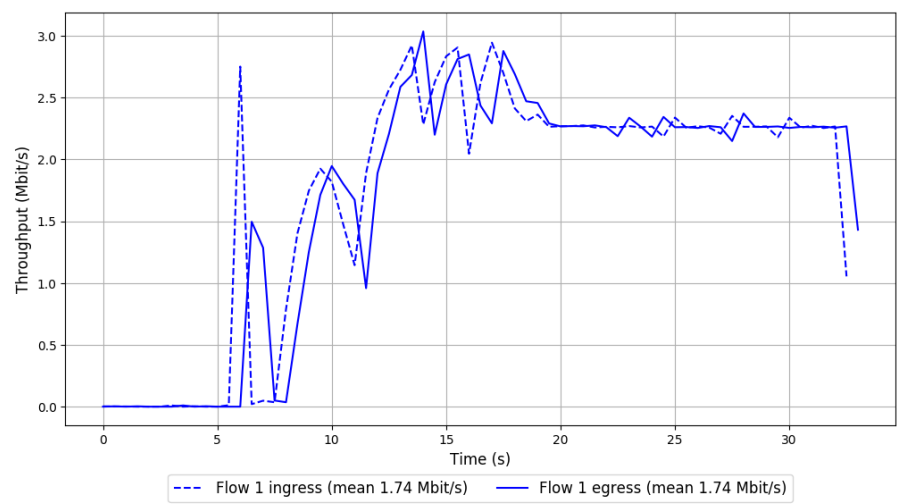
-- Flow 1:

Average throughput: 1.74 Mbit/s

95th percentile per-packet one-way delay: 86.135 ms

Loss rate: 0.03%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-08-09 03:15:37

End at: 2018-08-09 03:16:07

Local clock offset: -7.752 ms

Remote clock offset: 0.519 ms

Below is generated by plot.py at 2018-08-09 04:37:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.76 Mbit/s

95th percentile per-packet one-way delay: 84.908 ms

Loss rate: 0.00%

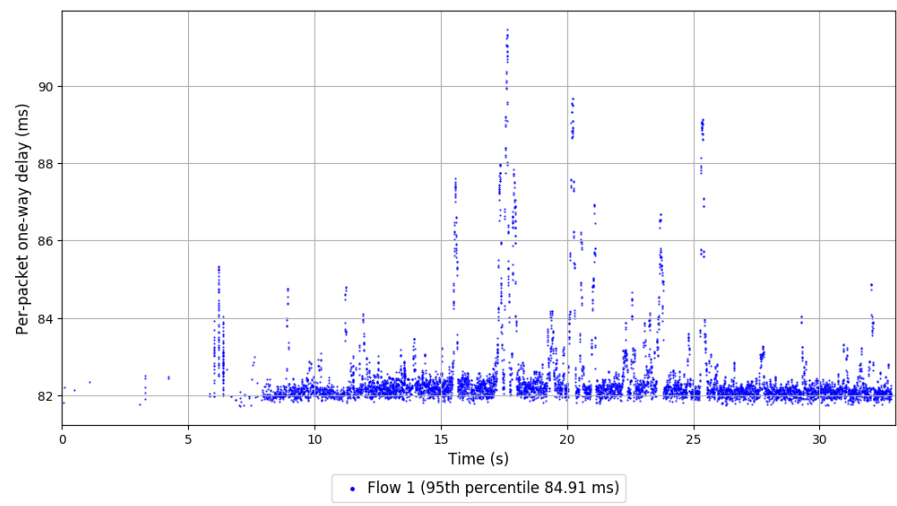
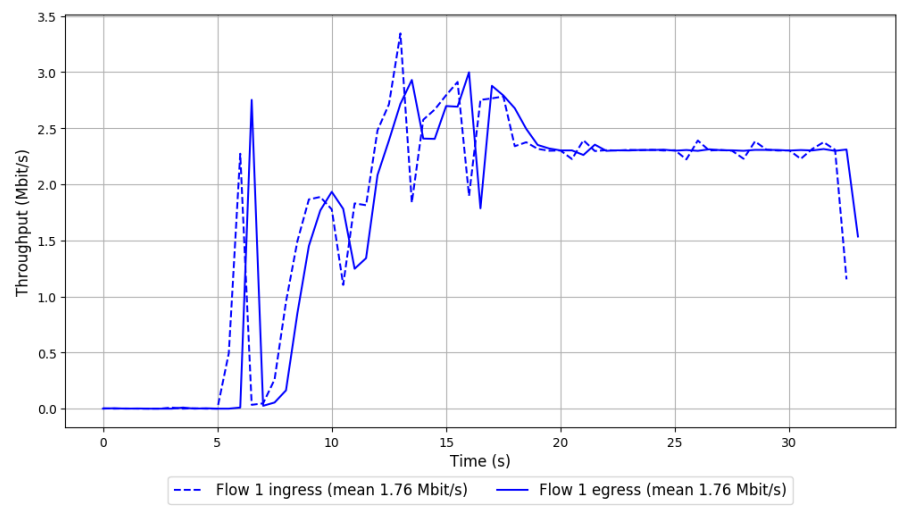
-- Flow 1:

Average throughput: 1.76 Mbit/s

95th percentile per-packet one-way delay: 84.908 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-08-09 03:35:31

End at: 2018-08-09 03:36:01

Local clock offset: -8.418 ms

Remote clock offset: 1.173 ms

Below is generated by plot.py at 2018-08-09 04:37:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.77 Mbit/s

95th percentile per-packet one-way delay: 81.500 ms

Loss rate: 0.00%

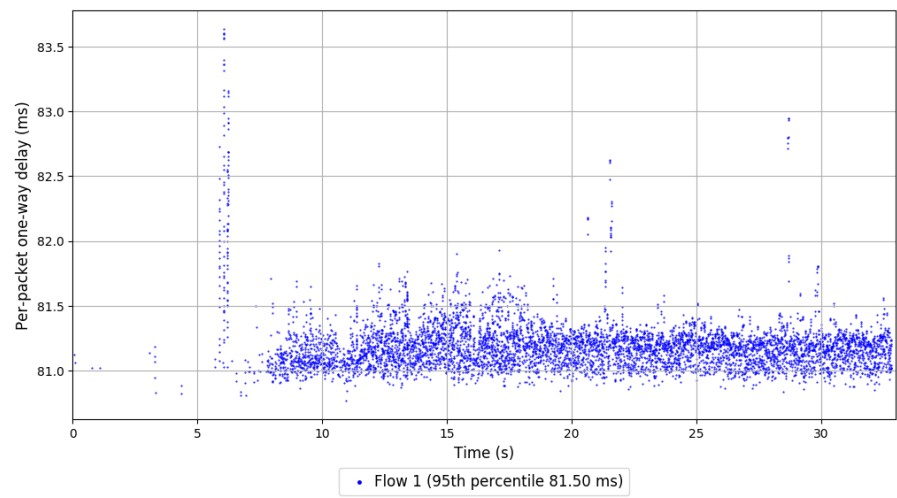
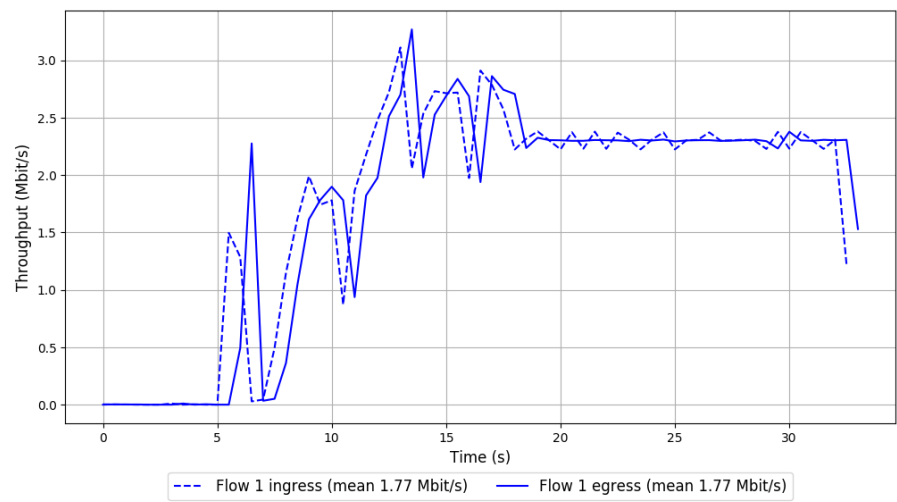
-- Flow 1:

Average throughput: 1.77 Mbit/s

95th percentile per-packet one-way delay: 81.500 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-08-09 03:55:26

End at: 2018-08-09 03:55:56

Local clock offset: -3.677 ms

Remote clock offset: 0.385 ms

Below is generated by plot.py at 2018-08-09 04:37:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.78 Mbit/s

95th percentile per-packet one-way delay: 81.980 ms

Loss rate: 0.00%

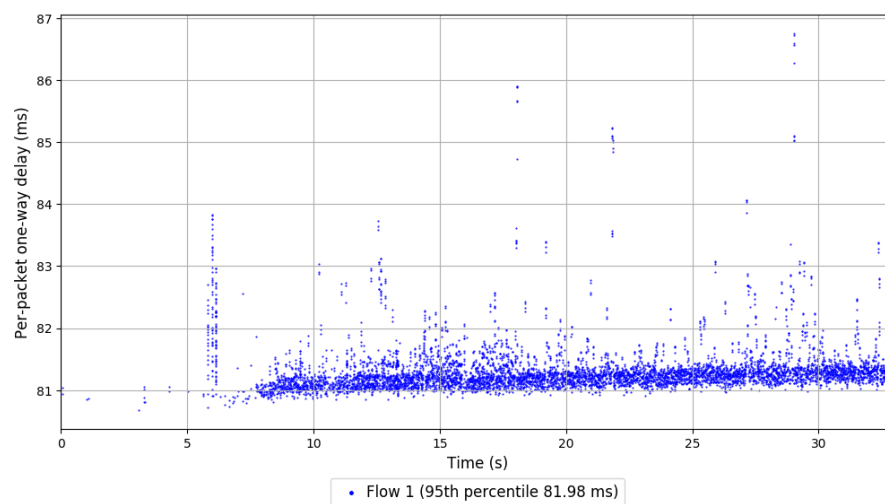
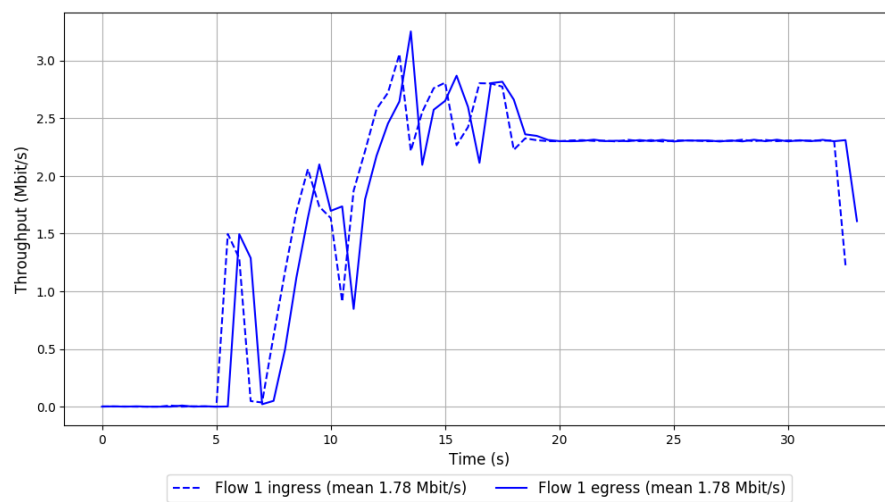
-- Flow 1:

Average throughput: 1.78 Mbit/s

95th percentile per-packet one-way delay: 81.980 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-08-09 04:15:18

End at: 2018-08-09 04:15:48

Local clock offset: -0.382 ms

Remote clock offset: 2.441 ms

Below is generated by plot.py at 2018-08-09 04:37:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.78 Mbit/s

95th percentile per-packet one-way delay: 88.054 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.78 Mbit/s

95th percentile per-packet one-way delay: 88.054 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

