

Pantheon Report

Generated at 2018-08-27 13:41:58 (UTC).

Data path: GCE Tokyo ens4 (*local*) → GCE London ens4 (*remote*).

Repeated the test of 17 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

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

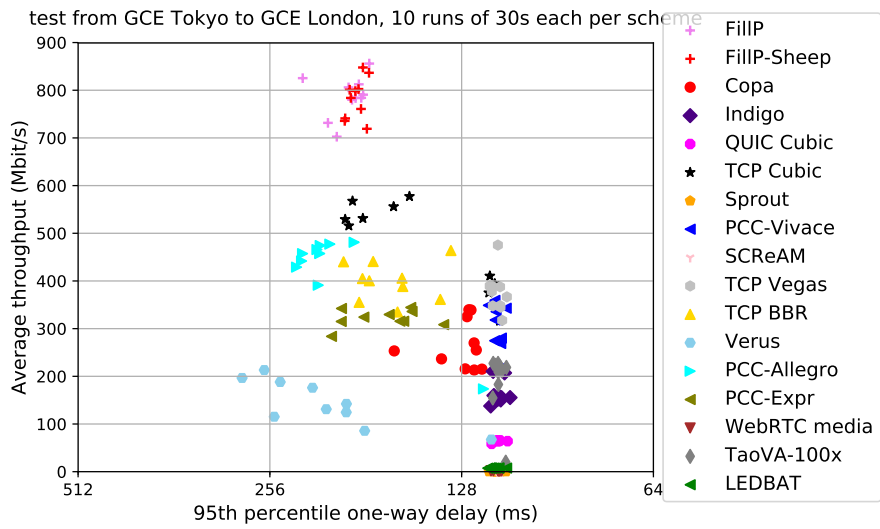
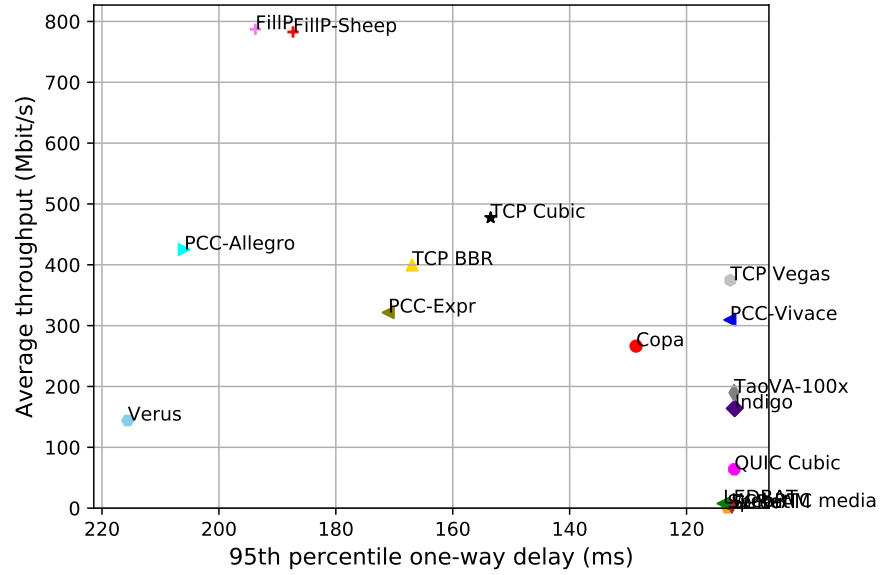
System info:

```
Linux 4.15.0-1015-gcp
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

```
branch: master @ 8f31687904b612ba36b45467ab20eda73108da68
third_party/fillp @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/fillp-sheep @ daed0c84f98531712514b2231f43ec6901114ffe
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdfef58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ 5386469677b75a7fdc5fe25d8daccce7950d8a69
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
```

test from GCE Tokyo to GCE London, 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	399.62	166.94	0.24
Copa	10	266.30	128.63	0.00
TCP Cubic	10	477.31	153.52	0.06
FillP	10	787.23	193.76	6.08
FillP-Sheep	10	782.66	187.32	5.65
Indigo	10	163.92	111.77	0.00
LEDBAT	10	7.55	113.75	0.00
PCC-Allegro	10	424.91	205.94	1.91
PCC-Expr	10	321.48	171.04	0.33
QUIC Cubic	7	63.83	111.82	0.00
SCReAM	10	0.22	112.33	0.00
Sprout	10	0.21	112.98	0.00
TaoVA-100x	10	189.61	111.87	0.00
TCP Vegas	10	374.52	112.52	0.00
Verus	10	144.02	215.61	3.42
PCC-Vivace	10	309.40	112.59	0.00
WebRTC media	10	1.88	112.24	0.00

Run 1: Statistics of TCP BBR

Start at: 2018-08-27 07:13:21

End at: 2018-08-27 07:13:51

Local clock offset: -0.078 ms

Remote clock offset: 8.193 ms

Below is generated by plot.py at 2018-08-27 11:21:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 361.35 Mbit/s

95th percentile per-packet one-way delay: 138.264 ms

Loss rate: 0.12%

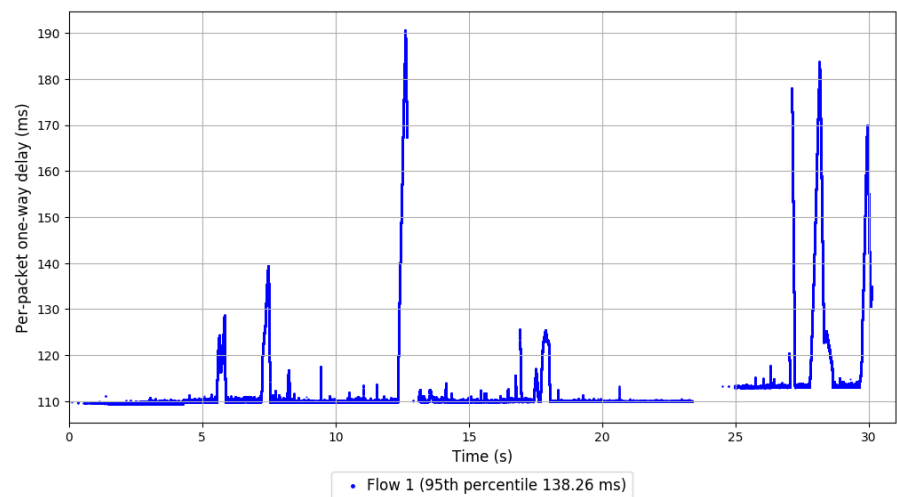
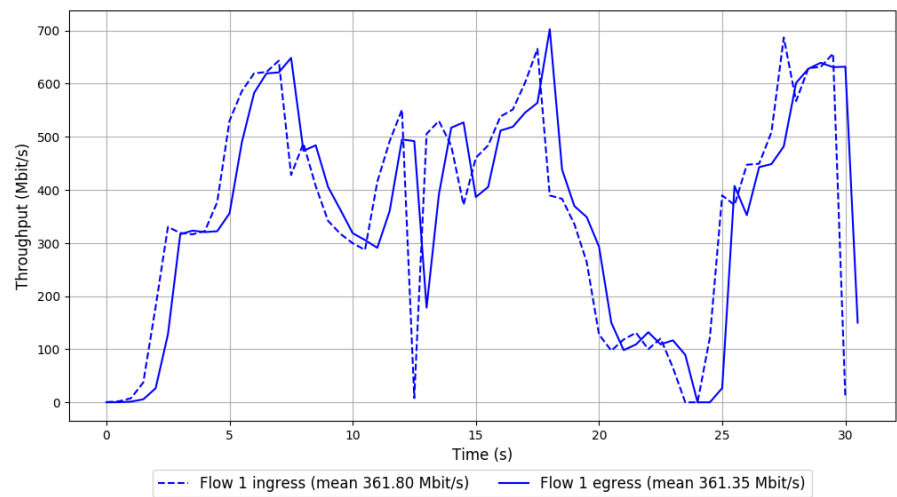
-- Flow 1:

Average throughput: 361.35 Mbit/s

95th percentile per-packet one-way delay: 138.264 ms

Loss rate: 0.12%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-08-27 07:37:47

End at: 2018-08-27 07:38:17

Local clock offset: -2.934 ms

Remote clock offset: 9.184 ms

Below is generated by plot.py at 2018-08-27 11:22:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 405.04 Mbit/s

95th percentile per-packet one-way delay: 183.175 ms

Loss rate: 0.21%

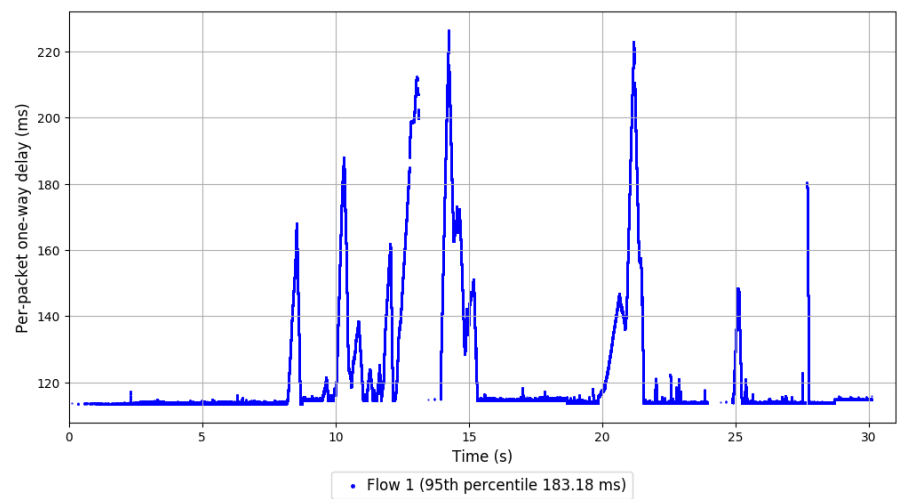
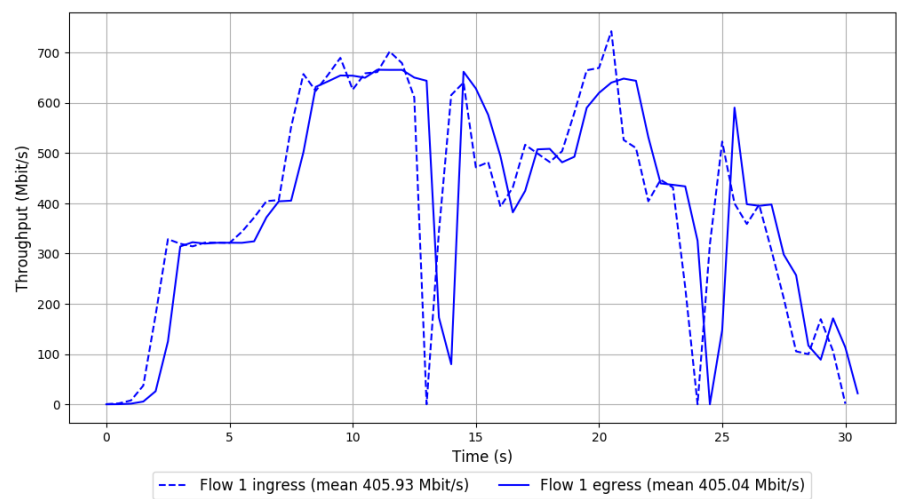
-- Flow 1:

Average throughput: 405.04 Mbit/s

95th percentile per-packet one-way delay: 183.175 ms

Loss rate: 0.21%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-08-27 08:01:59

End at: 2018-08-27 08:02:29

Local clock offset: -2.897 ms

Remote clock offset: 2.389 ms

Below is generated by plot.py at 2018-08-27 11:22:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 355.20 Mbit/s

95th percentile per-packet one-way delay: 185.386 ms

Loss rate: 0.23%

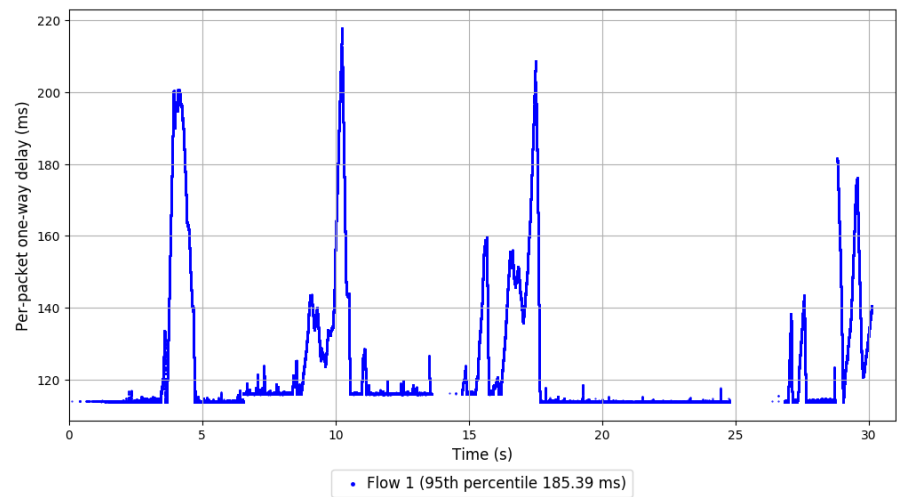
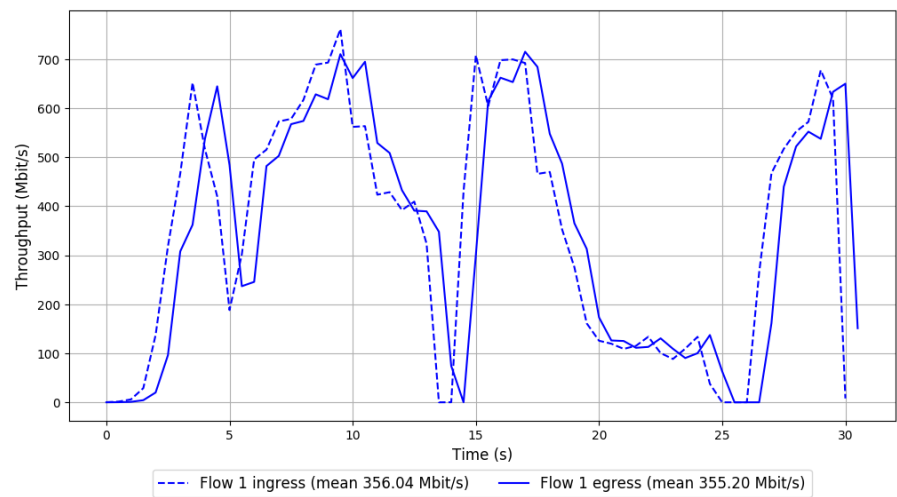
-- Flow 1:

Average throughput: 355.20 Mbit/s

95th percentile per-packet one-way delay: 185.386 ms

Loss rate: 0.23%

Run 3: Report of TCP BBR — Data Link

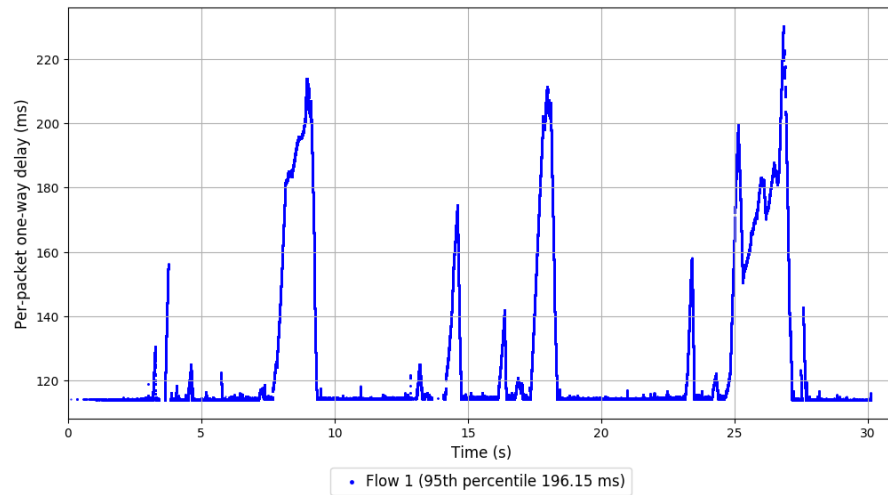
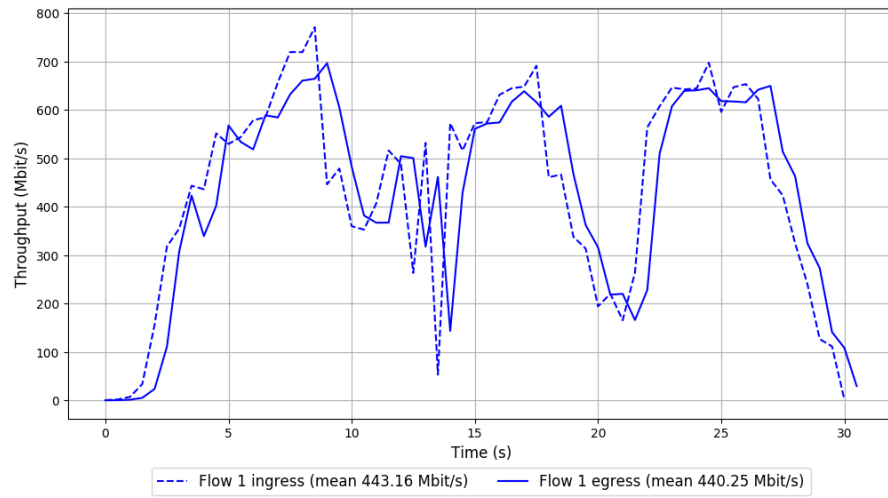


Run 4: Statistics of TCP BBR

Start at: 2018-08-27 08:26:09
End at: 2018-08-27 08:26:39
Local clock offset: -2.816 ms
Remote clock offset: -0.213 ms

Below is generated by plot.py at 2018-08-27 11:23:06
Datalink statistics
-- Total of 1 flow:
Average throughput: 440.25 Mbit/s
95th percentile per-packet one-way delay: 196.152 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 440.25 Mbit/s
95th percentile per-packet one-way delay: 196.152 ms
Loss rate: 0.66%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-08-27 08:50:41

End at: 2018-08-27 08:51:11

Local clock offset: -0.171 ms

Remote clock offset: 0.391 ms

Below is generated by plot.py at 2018-08-27 11:23:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 334.93 Mbit/s

95th percentile per-packet one-way delay: 161.384 ms

Loss rate: 0.25%

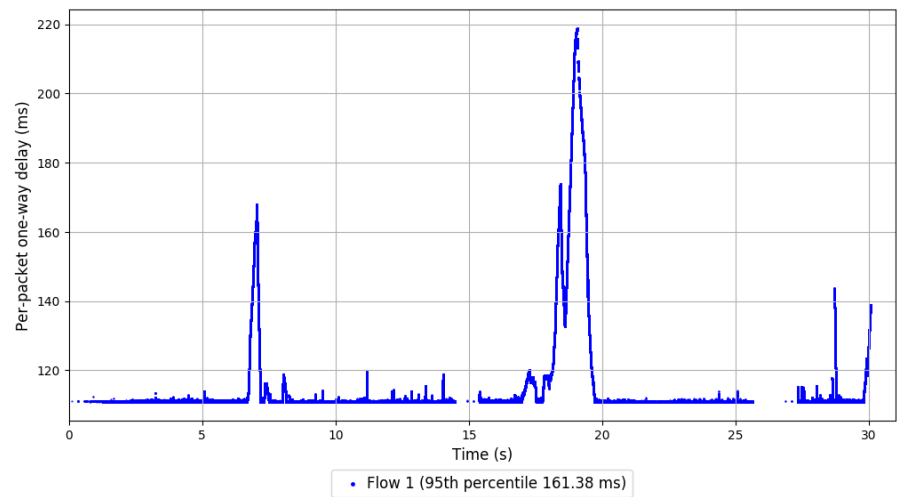
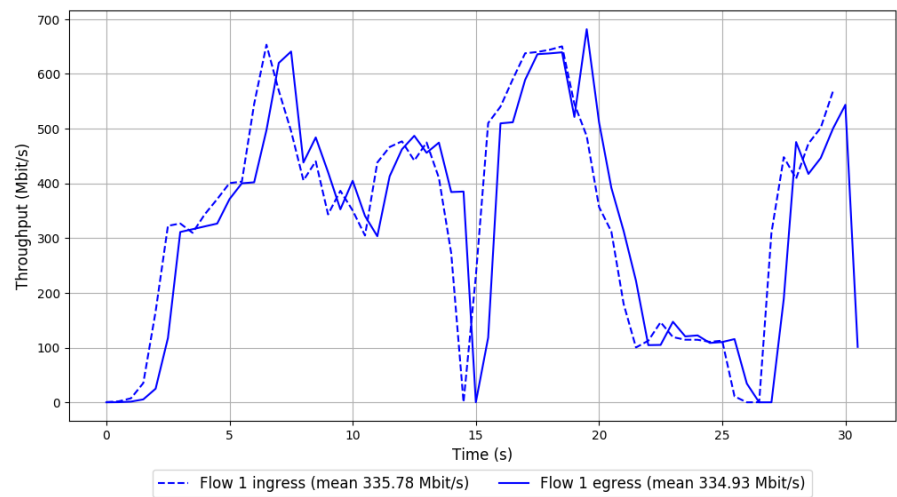
-- Flow 1:

Average throughput: 334.93 Mbit/s

95th percentile per-packet one-way delay: 161.384 ms

Loss rate: 0.25%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-08-27 09:14:45

End at: 2018-08-27 09:15:15

Local clock offset: -3.03 ms

Remote clock offset: 0.241 ms

Below is generated by plot.py at 2018-08-27 11:23:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 440.84 Mbit/s

95th percentile per-packet one-way delay: 176.244 ms

Loss rate: 0.54%

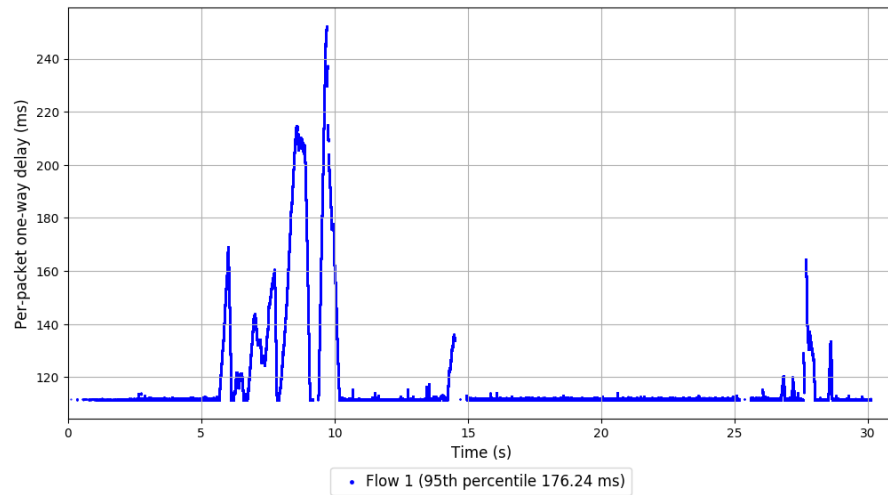
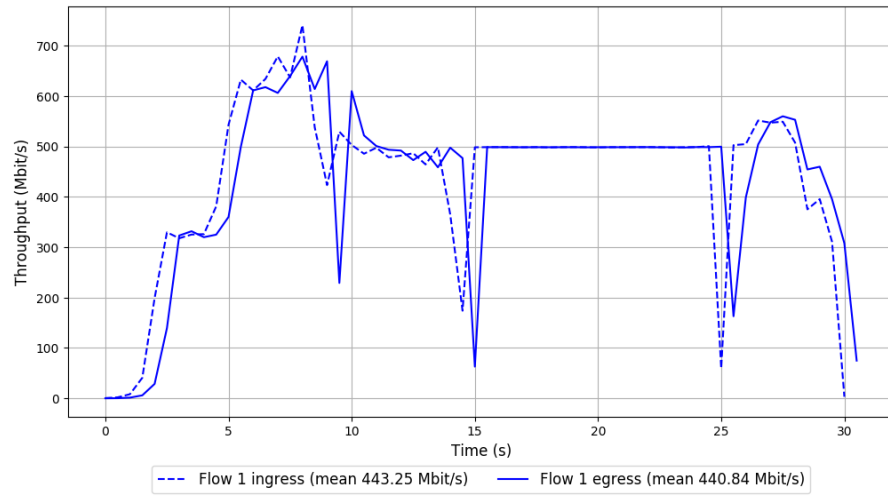
-- Flow 1:

Average throughput: 440.84 Mbit/s

95th percentile per-packet one-way delay: 176.244 ms

Loss rate: 0.54%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-08-27 09:39:03

End at: 2018-08-27 09:39:33

Local clock offset: 0.053 ms

Remote clock offset: 0.738 ms

Below is generated by plot.py at 2018-08-27 11:23:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 400.40 Mbit/s

95th percentile per-packet one-way delay: 178.690 ms

Loss rate: 0.09%

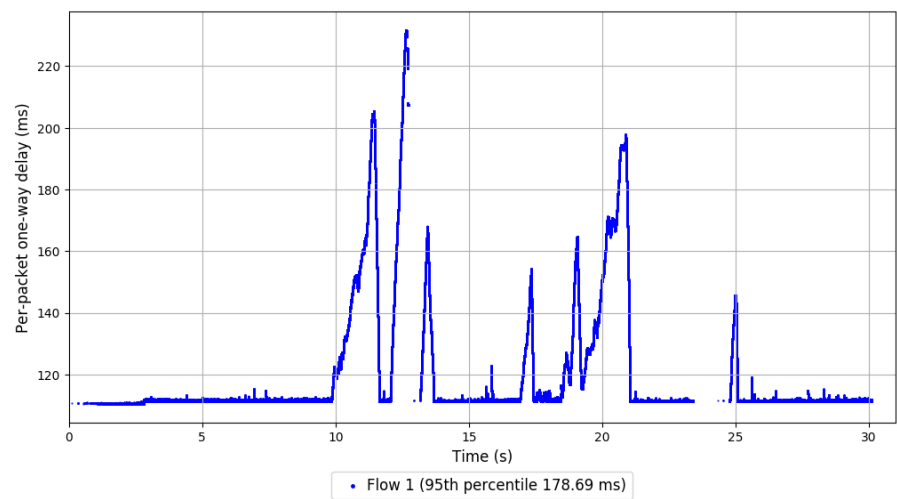
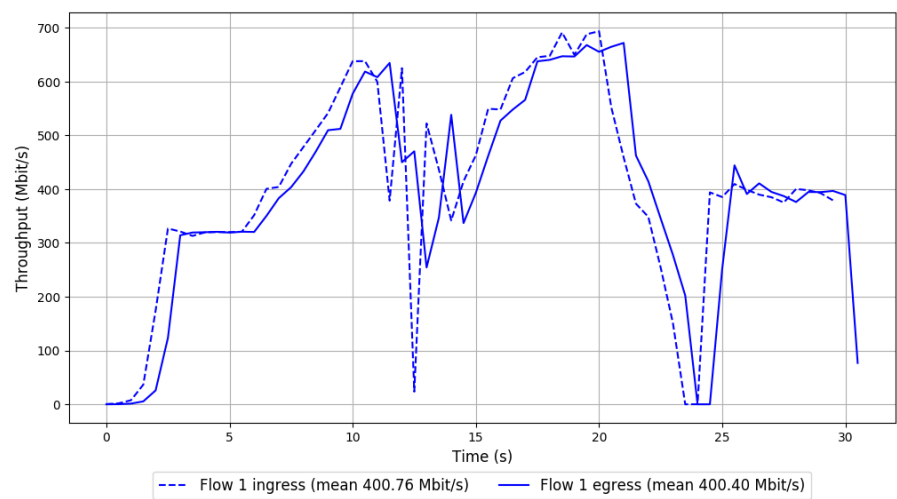
-- Flow 1:

Average throughput: 400.40 Mbit/s

95th percentile per-packet one-way delay: 178.690 ms

Loss rate: 0.09%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-08-27 10:03:25

End at: 2018-08-27 10:03:55

Local clock offset: 2.829 ms

Remote clock offset: -1.02 ms

Below is generated by plot.py at 2018-08-27 11:23:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 388.46 Mbit/s

95th percentile per-packet one-way delay: 158.339 ms

Loss rate: 0.26%

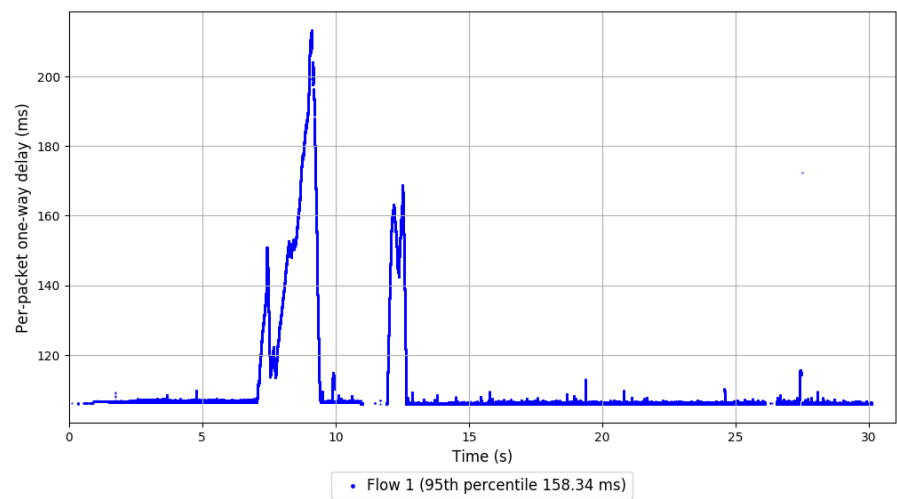
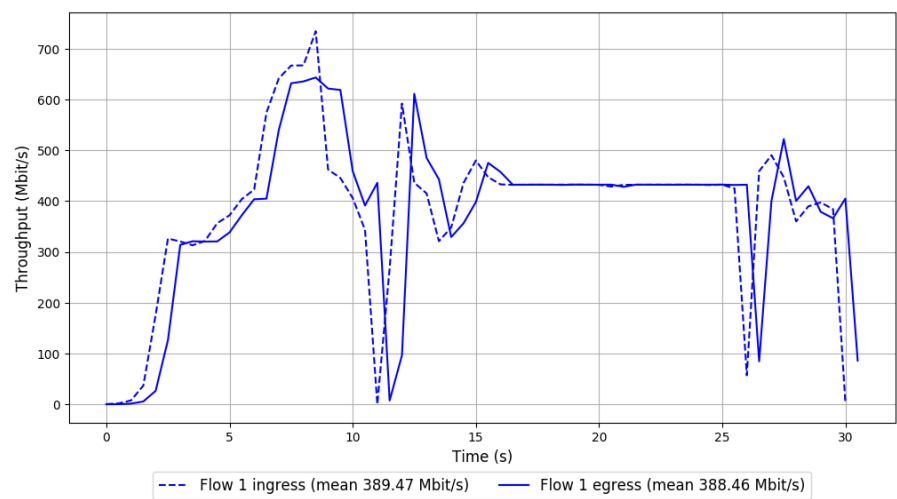
-- Flow 1:

Average throughput: 388.46 Mbit/s

95th percentile per-packet one-way delay: 158.339 ms

Loss rate: 0.26%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-08-27 10:27:41

End at: 2018-08-27 10:28:12

Local clock offset: -0.123 ms

Remote clock offset: -0.63 ms

Below is generated by plot.py at 2018-08-27 11:29:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 463.83 Mbit/s

95th percentile per-packet one-way delay: 133.056 ms

Loss rate: 0.00%

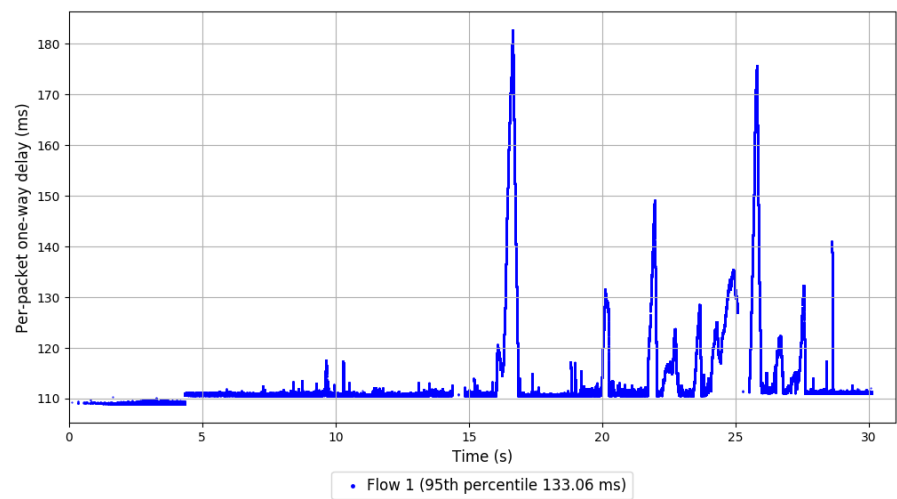
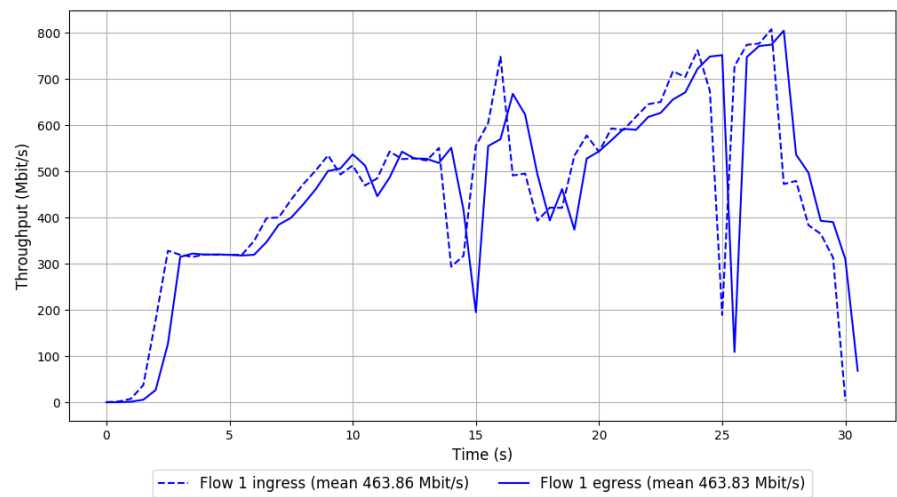
-- Flow 1:

Average throughput: 463.83 Mbit/s

95th percentile per-packet one-way delay: 133.056 ms

Loss rate: 0.00%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-08-27 10:51:45

End at: 2018-08-27 10:52:15

Local clock offset: -0.162 ms

Remote clock offset: -0.57 ms

Below is generated by plot.py at 2018-08-27 11:29:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 405.87 Mbit/s

95th percentile per-packet one-way delay: 158.760 ms

Loss rate: 0.01%

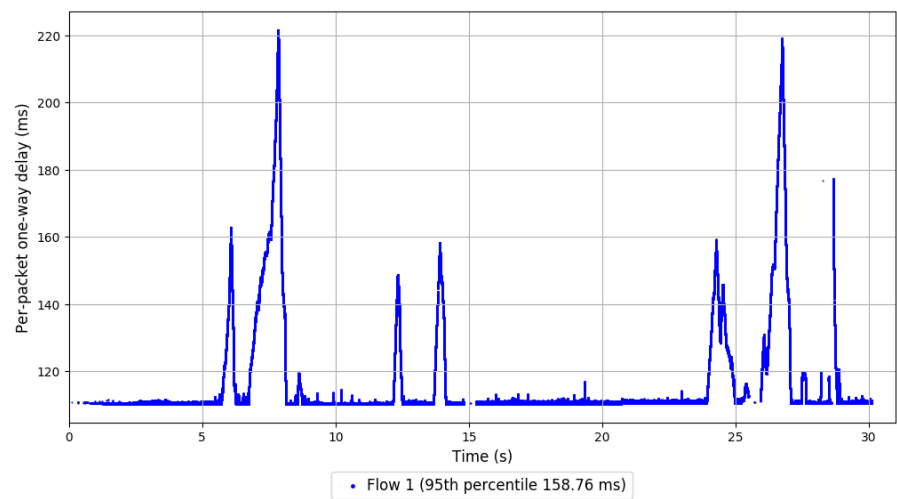
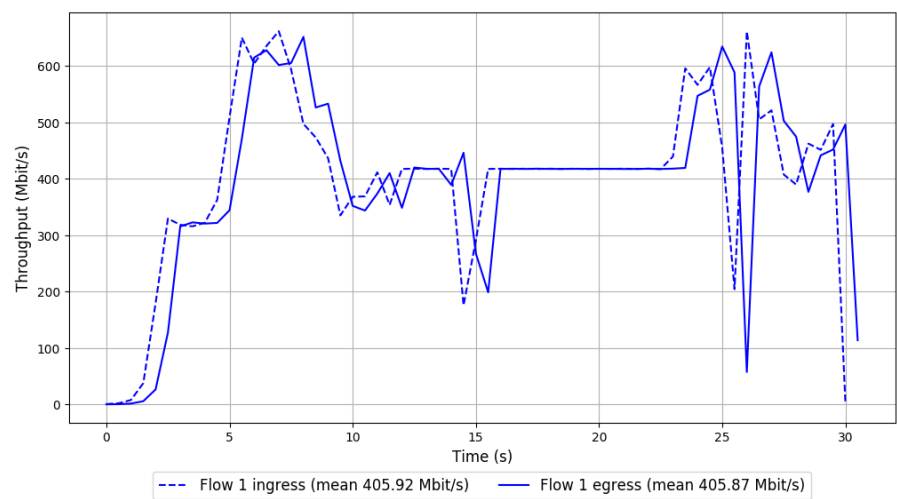
-- Flow 1:

Average throughput: 405.87 Mbit/s

95th percentile per-packet one-way delay: 158.760 ms

Loss rate: 0.01%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2018-08-27 07:11:53

End at: 2018-08-27 07:12:23

Local clock offset: -0.191 ms

Remote clock offset: 9.272 ms

Below is generated by plot.py at 2018-08-27 11:29:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 213.23 Mbit/s

95th percentile per-packet one-way delay: 122.307 ms

Loss rate: 0.00%

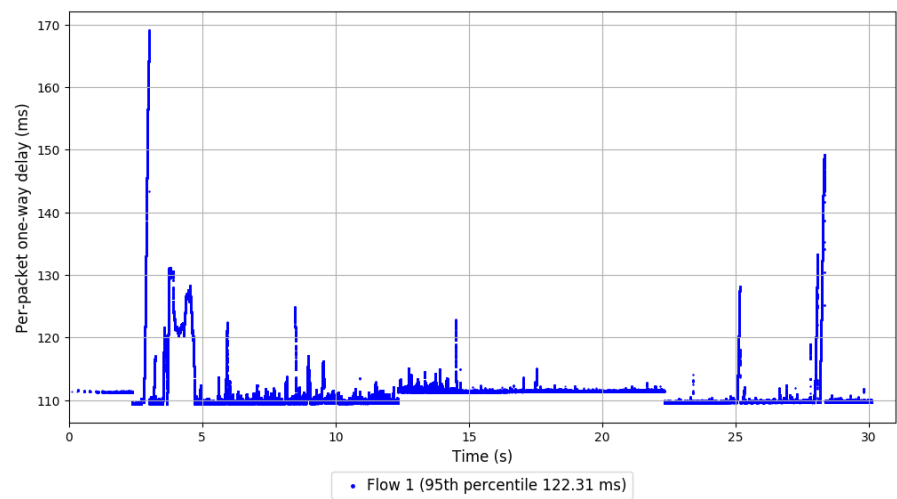
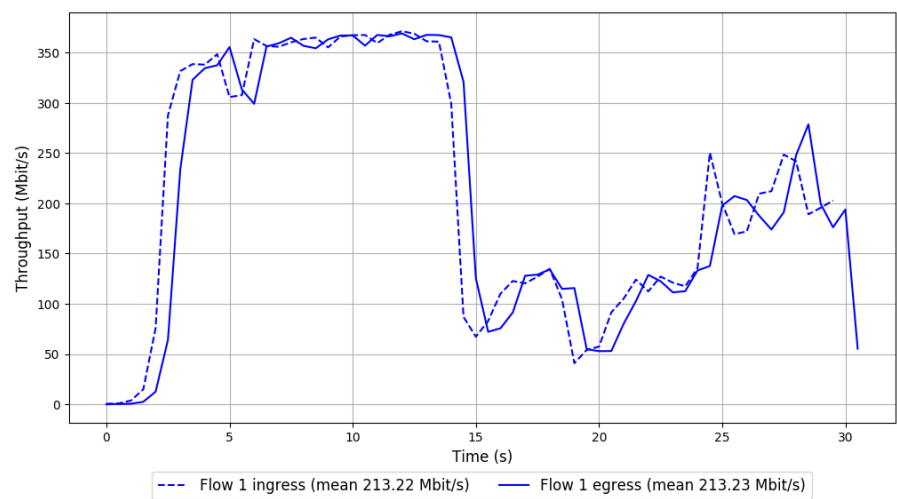
-- Flow 1:

Average throughput: 213.23 Mbit/s

95th percentile per-packet one-way delay: 122.307 ms

Loss rate: 0.00%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-08-27 07:36:07

End at: 2018-08-27 07:36:37

Local clock offset: -2.863 ms

Remote clock offset: 9.037 ms

Below is generated by plot.py at 2018-08-27 11:32:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 339.66 Mbit/s

95th percentile per-packet one-way delay: 124.697 ms

Loss rate: 0.00%

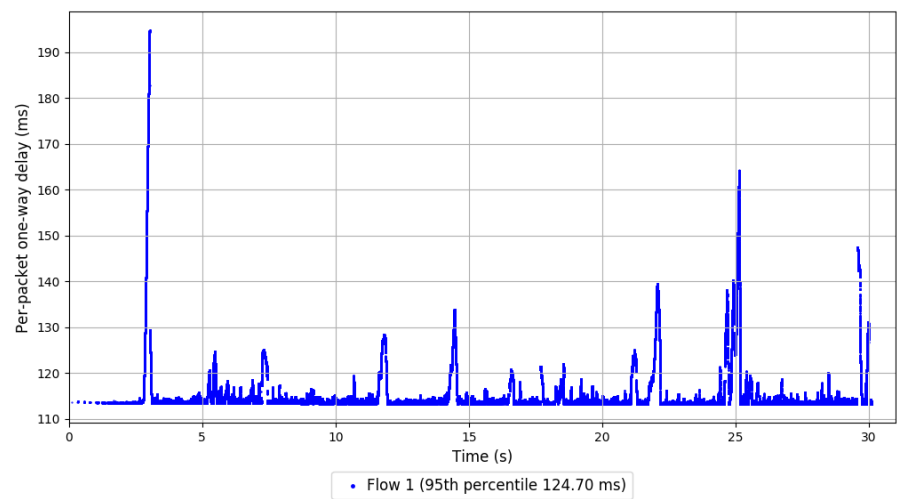
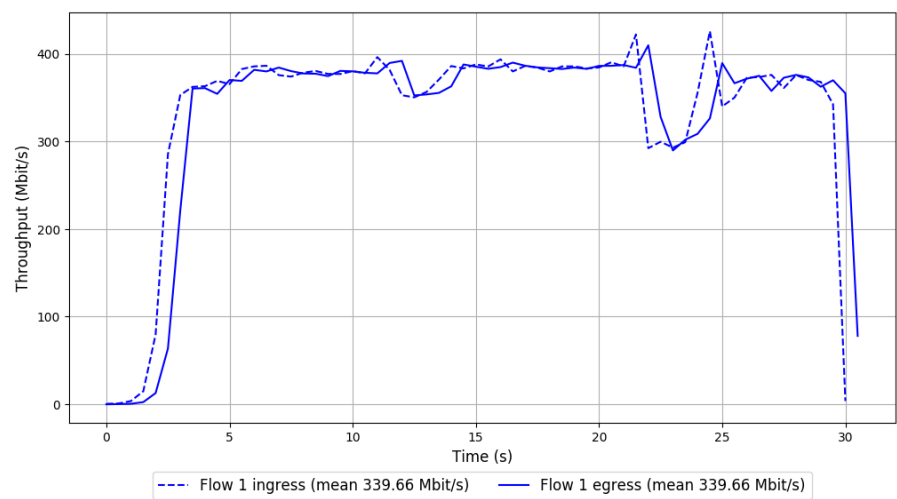
-- Flow 1:

Average throughput: 339.66 Mbit/s

95th percentile per-packet one-way delay: 124.697 ms

Loss rate: 0.00%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-08-27 08:00:28

End at: 2018-08-27 08:00:58

Local clock offset: 2.798 ms

Remote clock offset: 2.429 ms

Below is generated by plot.py at 2018-08-27 11:32:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 255.25 Mbit/s

95th percentile per-packet one-way delay: 121.401 ms

Loss rate: 0.01%

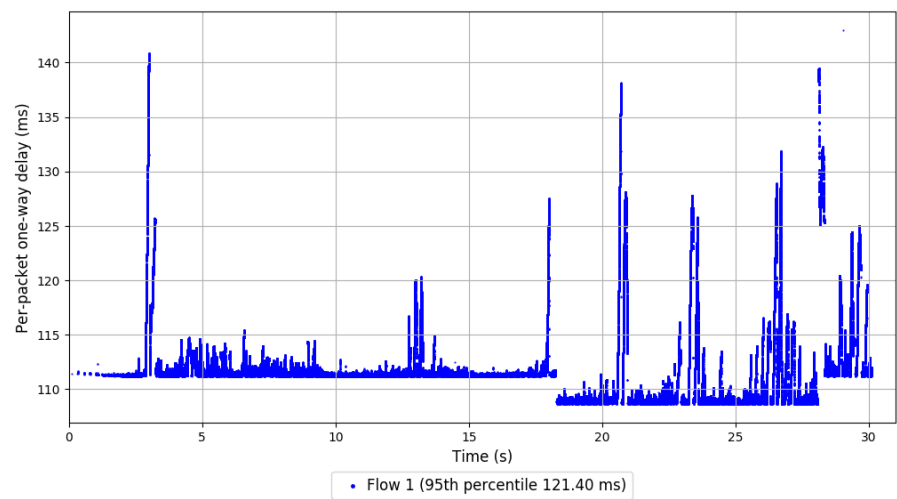
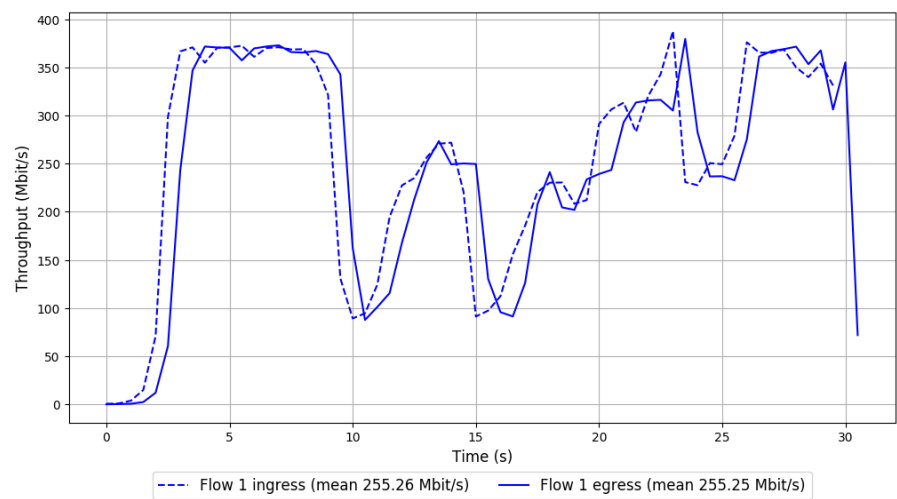
-- Flow 1:

Average throughput: 255.25 Mbit/s

95th percentile per-packet one-way delay: 121.401 ms

Loss rate: 0.01%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-08-27 08:24:35

End at: 2018-08-27 08:25:05

Local clock offset: 2.711 ms

Remote clock offset: 0.989 ms

Below is generated by plot.py at 2018-08-27 11:32:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 270.08 Mbit/s

95th percentile per-packet one-way delay: 122.359 ms

Loss rate: 0.01%

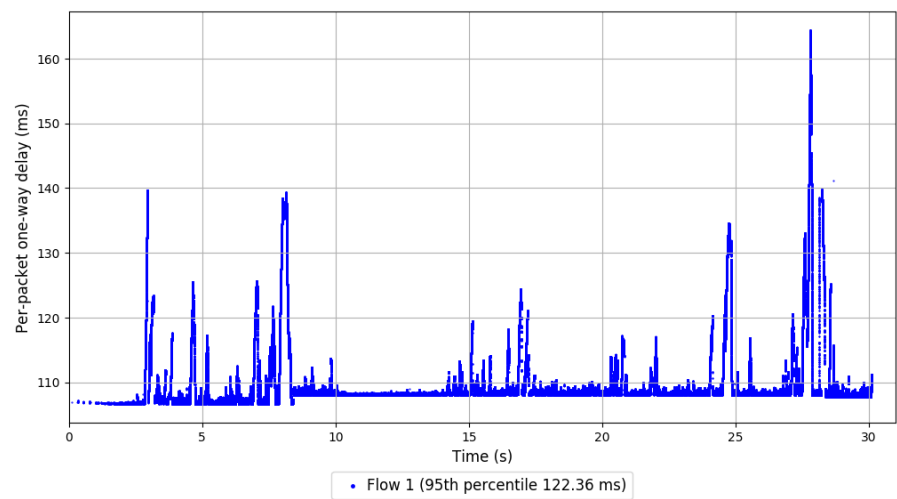
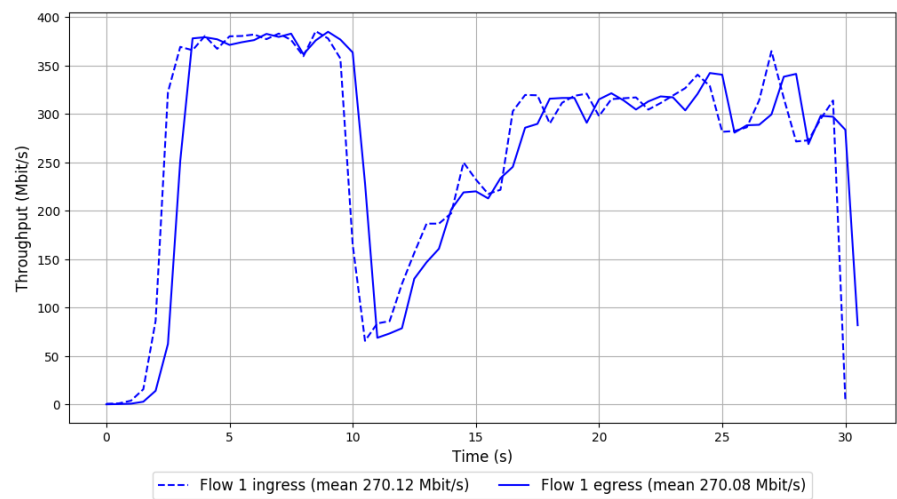
-- Flow 1:

Average throughput: 270.08 Mbit/s

95th percentile per-packet one-way delay: 122.359 ms

Loss rate: 0.01%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-08-27 08:49:11

End at: 2018-08-27 08:49:41

Local clock offset: -2.956 ms

Remote clock offset: 0.65 ms

Below is generated by plot.py at 2018-08-27 11:32:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 236.57 Mbit/s

95th percentile per-packet one-way delay: 137.661 ms

Loss rate: 0.00%

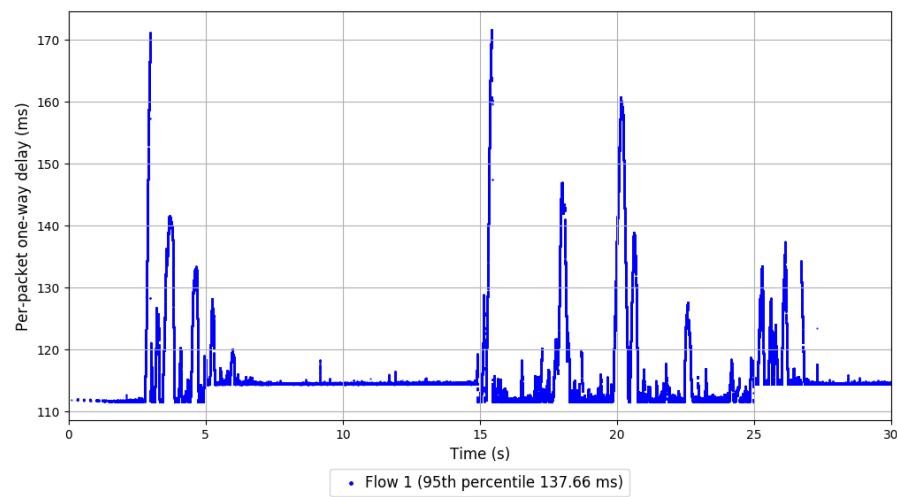
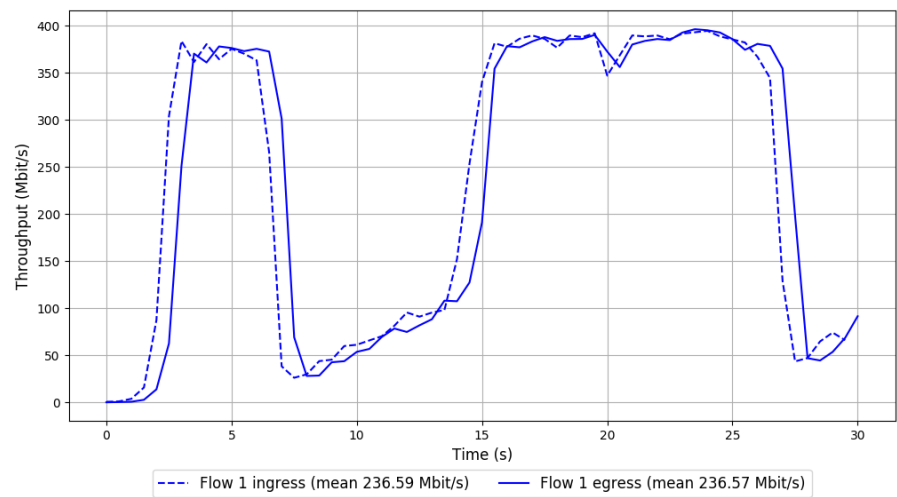
-- Flow 1:

Average throughput: 236.57 Mbit/s

95th percentile per-packet one-way delay: 137.661 ms

Loss rate: 0.00%

Run 5: Report of Copa — Data Link

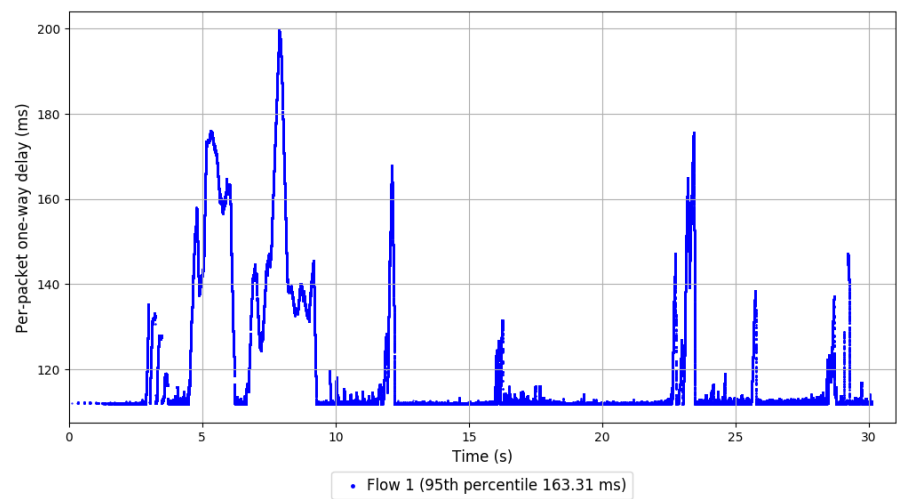
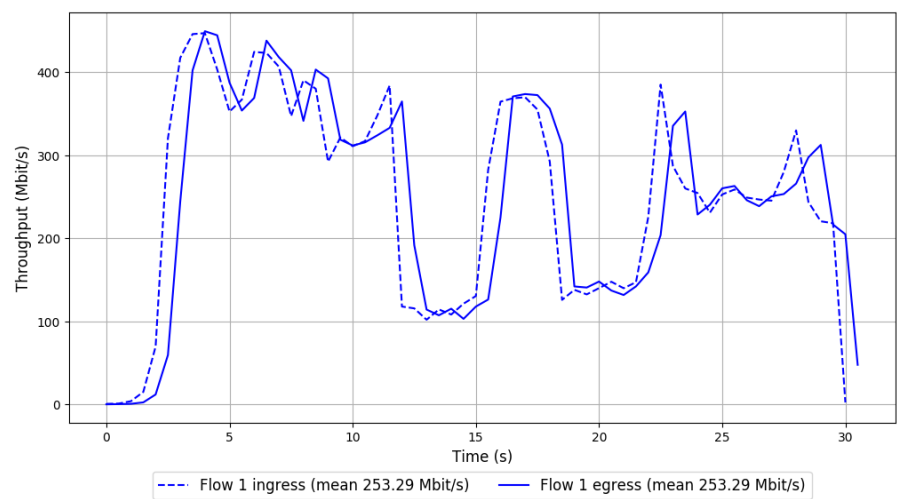


Run 6: Statistics of Copa

Start at: 2018-08-27 09:13:13
End at: 2018-08-27 09:13:43
Local clock offset: -0.243 ms
Remote clock offset: 0.749 ms

Below is generated by plot.py at 2018-08-27 11:32:46
Datalink statistics
-- Total of 1 flow:
Average throughput: 253.29 Mbit/s
95th percentile per-packet one-way delay: 163.308 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 253.29 Mbit/s
95th percentile per-packet one-way delay: 163.308 ms
Loss rate: 0.00%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-08-27 09:37:34

End at: 2018-08-27 09:38:04

Local clock offset: 2.77 ms

Remote clock offset: 0.923 ms

Below is generated by plot.py at 2018-08-27 11:34:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 215.65 Mbit/s

95th percentile per-packet one-way delay: 126.371 ms

Loss rate: 0.00%

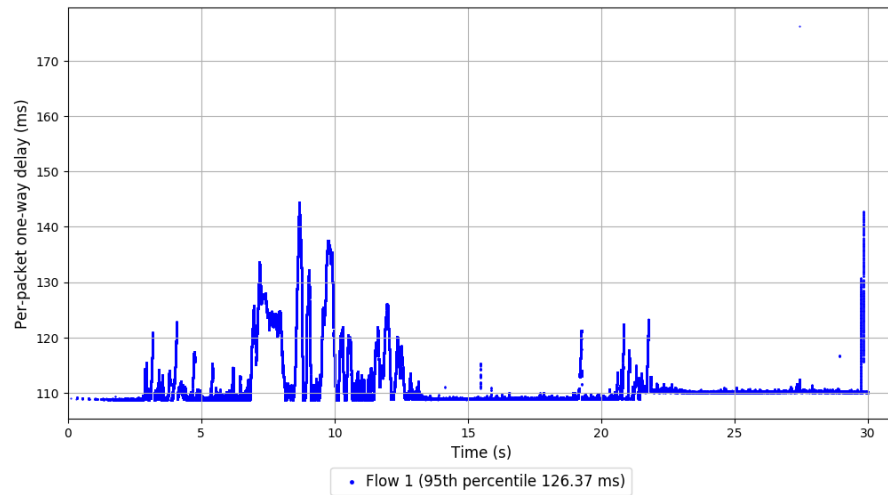
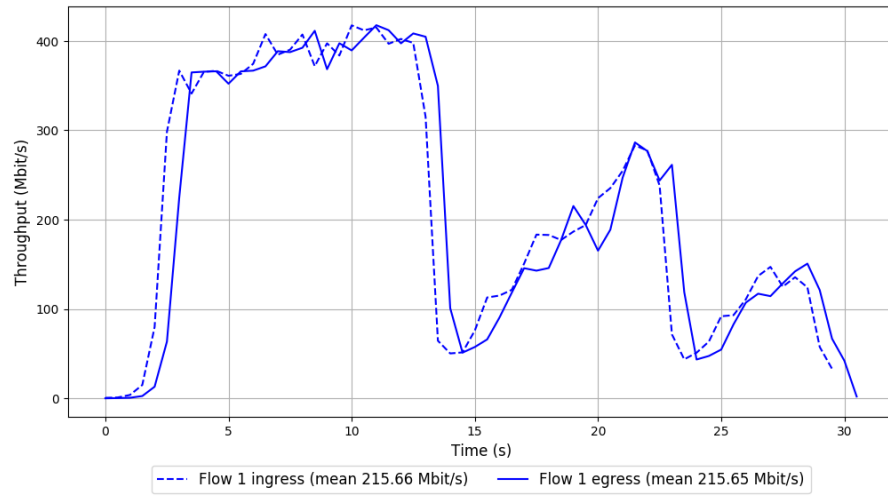
-- Flow 1:

Average throughput: 215.65 Mbit/s

95th percentile per-packet one-way delay: 126.371 ms

Loss rate: 0.00%

Run 7: Report of Copa — Data Link

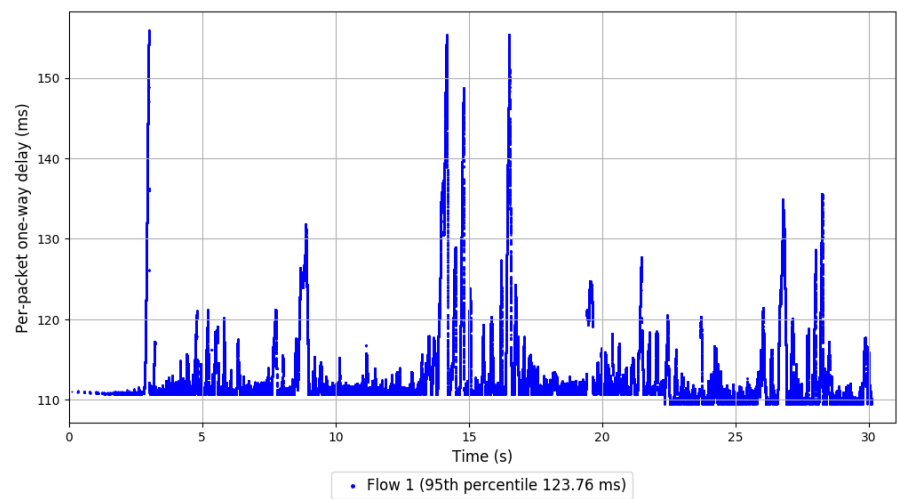
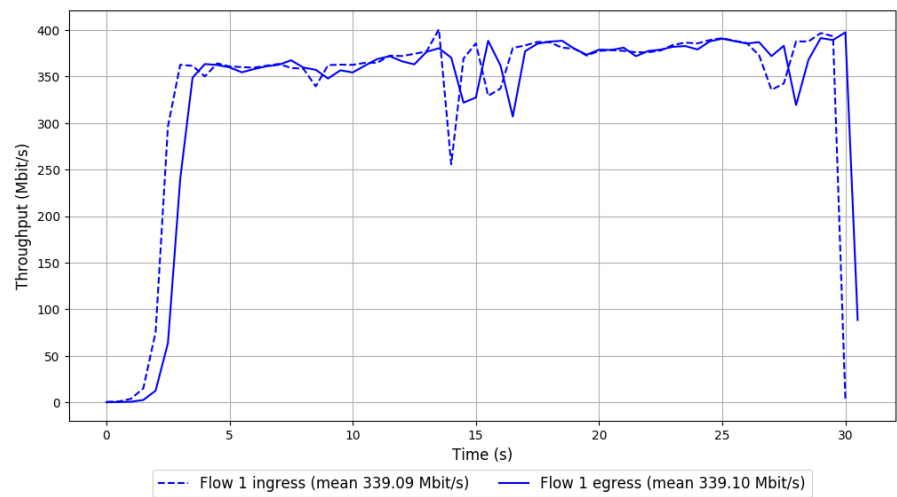


Run 8: Statistics of Copa

Start at: 2018-08-27 10:01:44
End at: 2018-08-27 10:02:14
Local clock offset: -0.099 ms
Remote clock offset: -0.129 ms

Below is generated by plot.py at 2018-08-27 11:40:10
Datalink statistics
-- Total of 1 flow:
Average throughput: 339.10 Mbit/s
95th percentile per-packet one-way delay: 123.757 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 339.10 Mbit/s
95th percentile per-packet one-way delay: 123.757 ms
Loss rate: 0.00%

Run 8: Report of Copa — Data Link

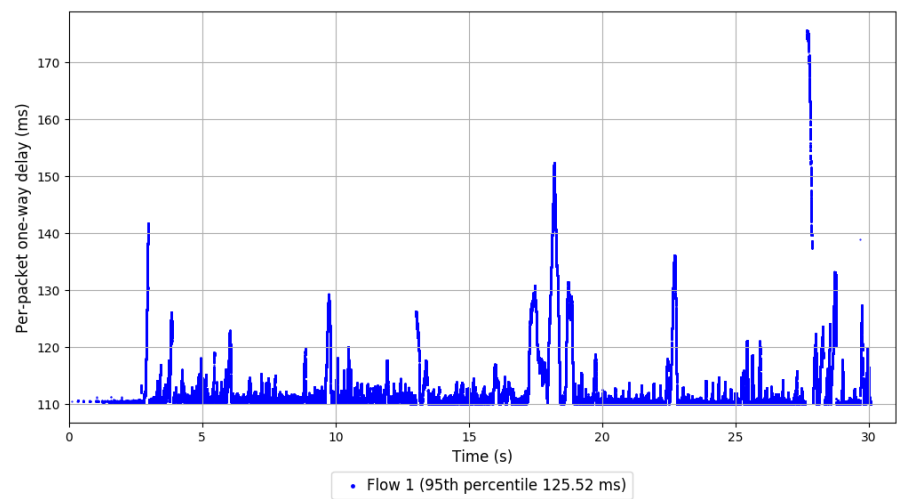
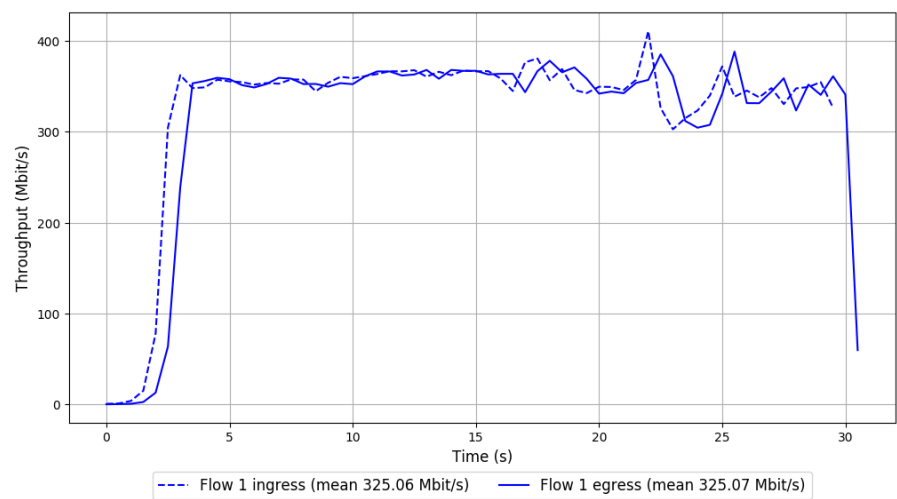


Run 9: Statistics of Copa

Start at: 2018-08-27 10:26:03
End at: 2018-08-27 10:26:33
Local clock offset: -0.238 ms
Remote clock offset: -0.467 ms

Below is generated by plot.py at 2018-08-27 11:40:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 325.07 Mbit/s
95th percentile per-packet one-way delay: 125.519 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 325.07 Mbit/s
95th percentile per-packet one-way delay: 125.519 ms
Loss rate: 0.00%

Run 9: Report of Copa — Data Link

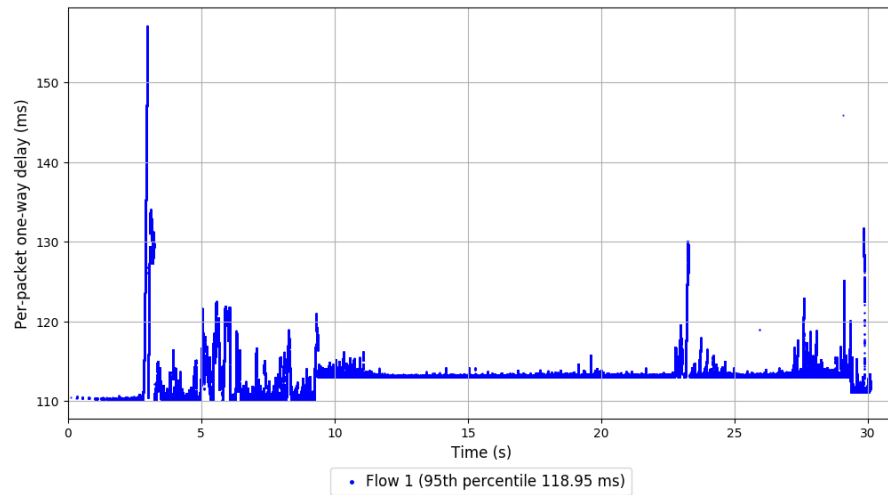
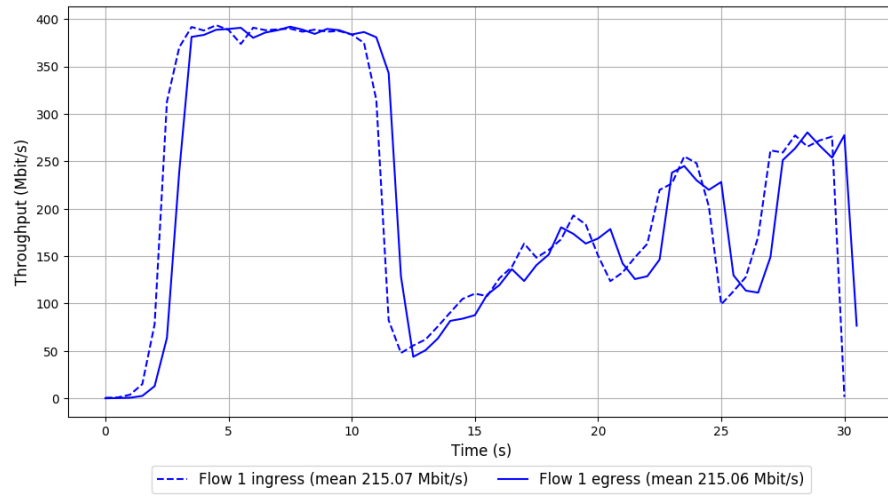


Run 10: Statistics of Copa

Start at: 2018-08-27 10:50:17
End at: 2018-08-27 10:50:47
Local clock offset: -0.199 ms
Remote clock offset: -0.782 ms

Below is generated by plot.py at 2018-08-27 11:40:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 215.06 Mbit/s
95th percentile per-packet one-way delay: 118.947 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 215.06 Mbit/s
95th percentile per-packet one-way delay: 118.947 ms
Loss rate: 0.00%

Run 10: Report of Copa — Data Link

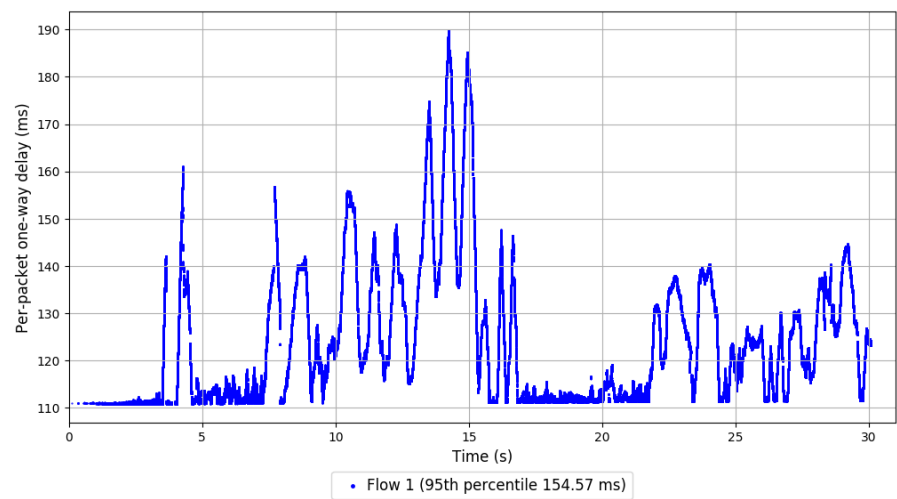
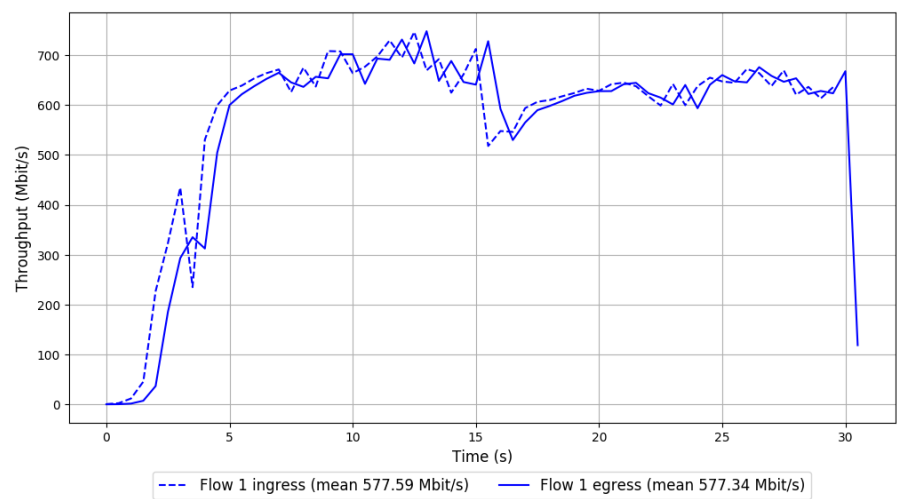


Run 1: Statistics of TCP Cubic

Start at: 2018-08-27 07:05:00
End at: 2018-08-27 07:05:30
Local clock offset: -0.385 ms
Remote clock offset: 16.703 ms

Below is generated by plot.py at 2018-08-27 11:41:02
Datalink statistics
-- Total of 1 flow:
Average throughput: 577.34 Mbit/s
95th percentile per-packet one-way delay: 154.569 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 577.34 Mbit/s
95th percentile per-packet one-way delay: 154.569 ms
Loss rate: 0.04%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-08-27 07:29:03

End at: 2018-08-27 07:29:33

Local clock offset: -0.171 ms

Remote clock offset: 6.951 ms

Below is generated by plot.py at 2018-08-27 11:41:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 529.16 Mbit/s

95th percentile per-packet one-way delay: 194.988 ms

Loss rate: 0.22%

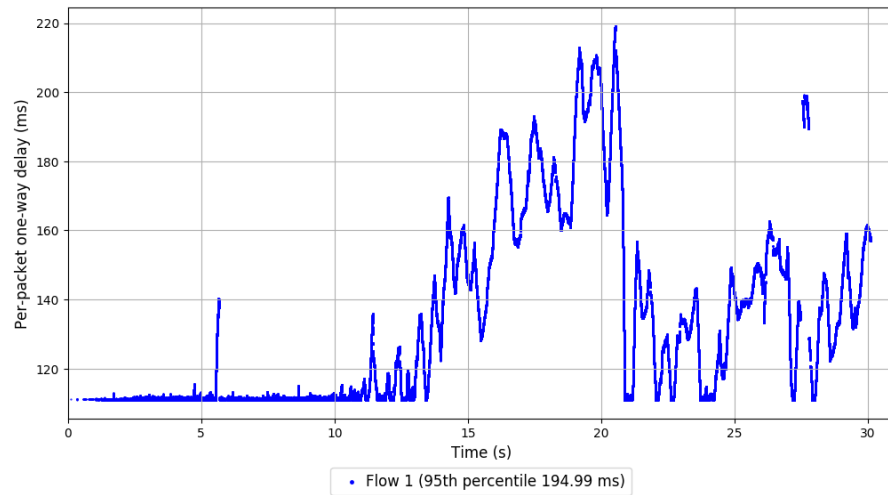
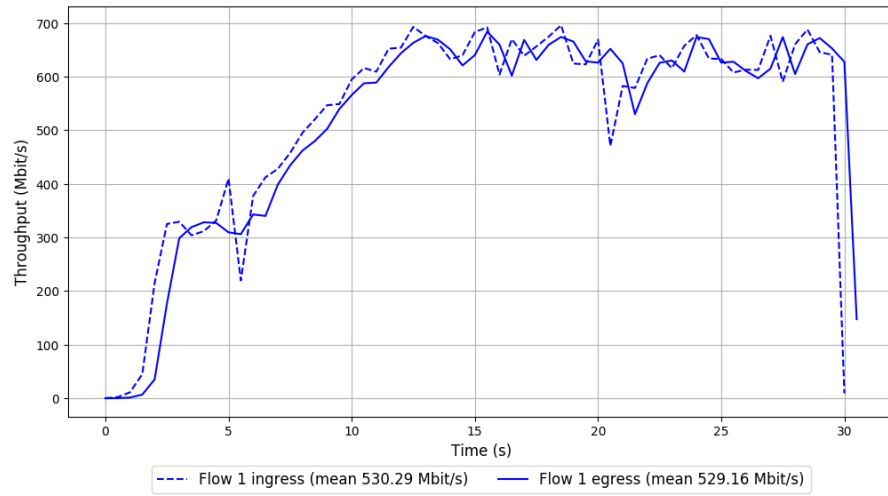
-- Flow 1:

Average throughput: 529.16 Mbit/s

95th percentile per-packet one-way delay: 194.988 ms

Loss rate: 0.22%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-08-27 07:53:27

End at: 2018-08-27 07:53:57

Local clock offset: -0.13 ms

Remote clock offset: 2.306 ms

Below is generated by plot.py at 2018-08-27 11:41:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 567.61 Mbit/s

95th percentile per-packet one-way delay: 189.885 ms

Loss rate: 0.11%

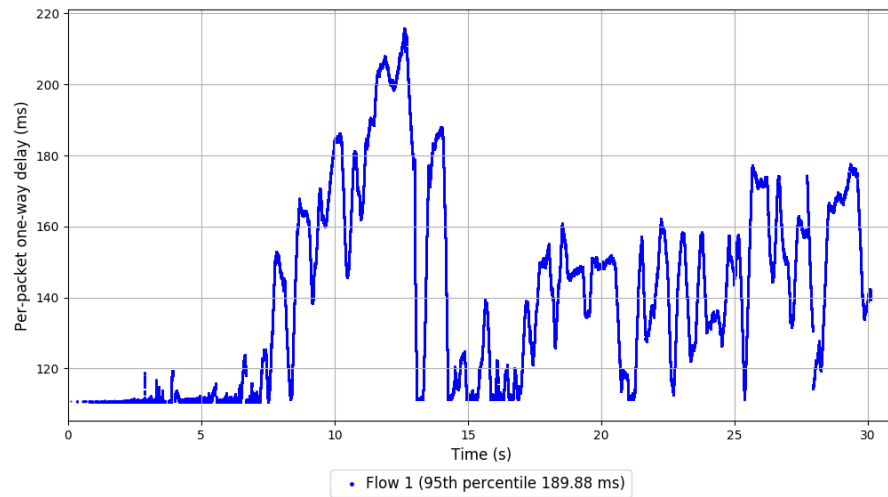
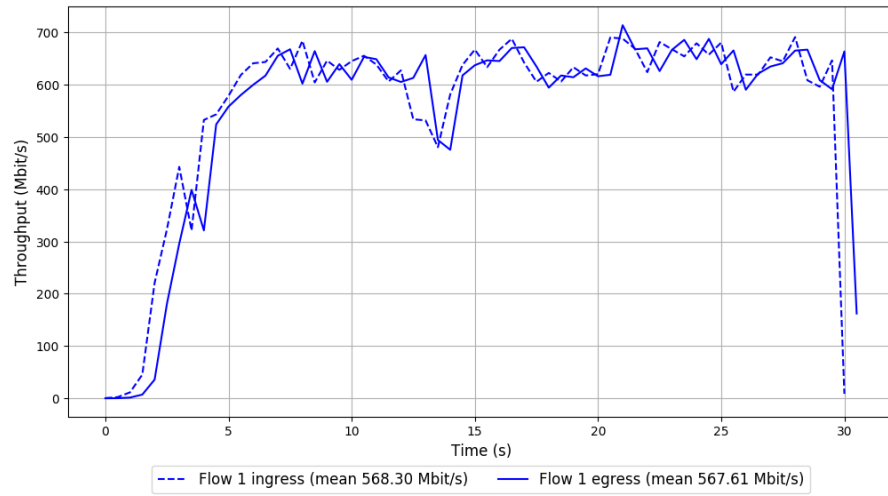
-- Flow 1:

Average throughput: 567.61 Mbit/s

95th percentile per-packet one-way delay: 189.885 ms

Loss rate: 0.11%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-08-27 08:17:41

End at: 2018-08-27 08:18:11

Local clock offset: -2.872 ms

Remote clock offset: 0.704 ms

Below is generated by plot.py at 2018-08-27 11:41:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 394.39 Mbit/s

95th percentile per-packet one-way delay: 113.548 ms

Loss rate: 0.00%

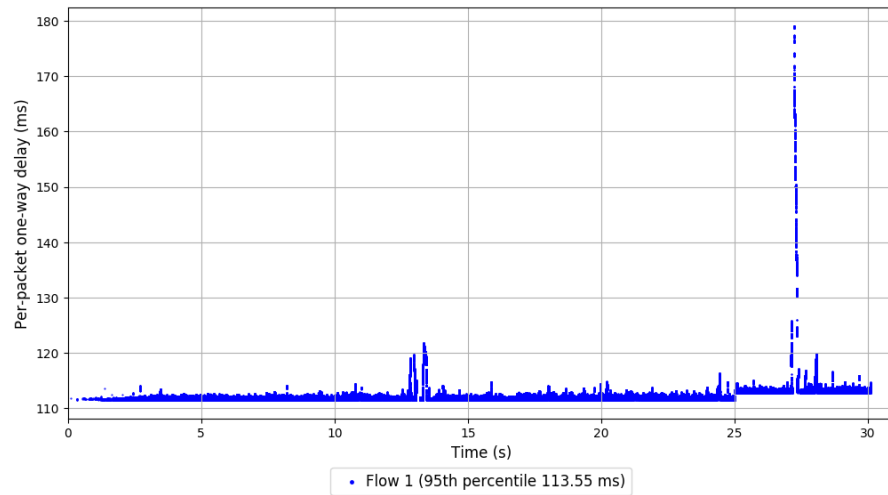
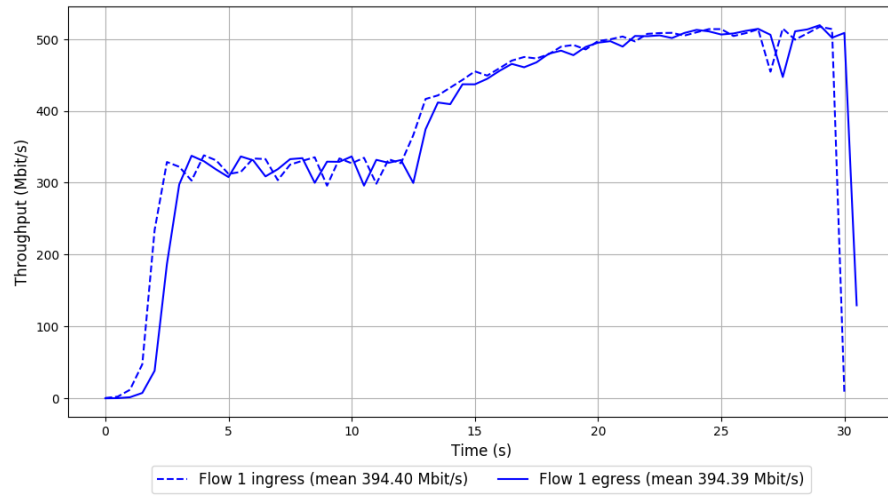
-- Flow 1:

Average throughput: 394.39 Mbit/s

95th percentile per-packet one-way delay: 113.548 ms

Loss rate: 0.00%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-08-27 08:42:02

End at: 2018-08-27 08:42:32

Local clock offset: -2.946 ms

Remote clock offset: 0.249 ms

Below is generated by plot.py at 2018-08-27 11:45:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 531.21 Mbit/s

95th percentile per-packet one-way delay: 182.925 ms

Loss rate: 0.05%

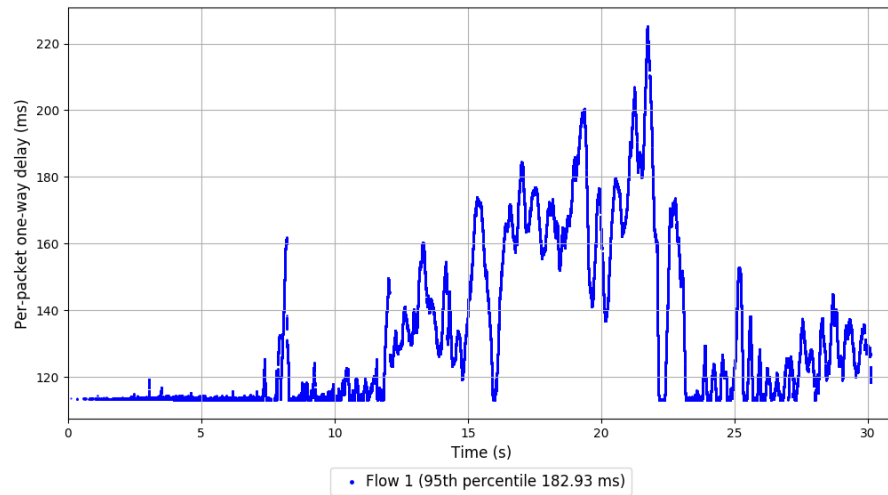
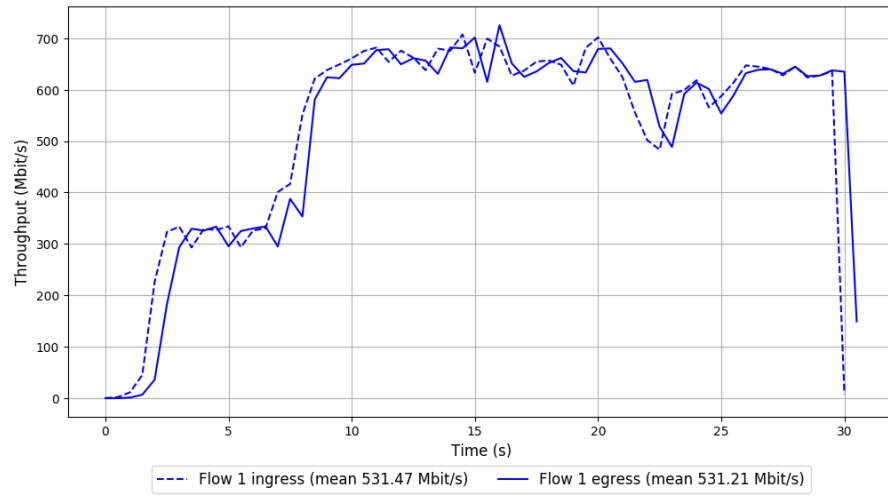
-- Flow 1:

Average throughput: 531.21 Mbit/s

95th percentile per-packet one-way delay: 182.925 ms

Loss rate: 0.05%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-08-27 09:06:29

End at: 2018-08-27 09:06:59

Local clock offset: -3.003 ms

Remote clock offset: 0.194 ms

Below is generated by plot.py at 2018-08-27 11:45:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 375.20 Mbit/s

95th percentile per-packet one-way delay: 116.026 ms

Loss rate: 0.00%

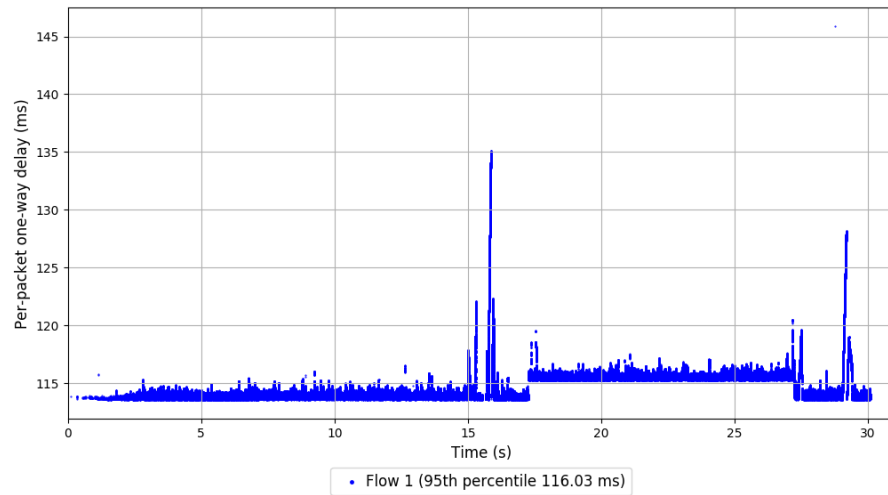
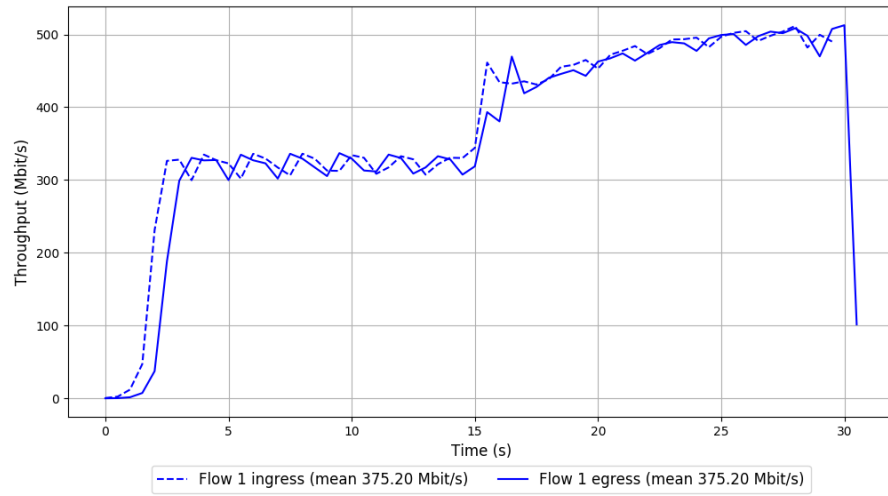
-- Flow 1:

Average throughput: 375.20 Mbit/s

95th percentile per-packet one-way delay: 116.026 ms

Loss rate: 0.00%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-08-27 09:30:39

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

Local clock offset: -0.087 ms

Remote clock offset: 1.009 ms

Below is generated by plot.py at 2018-08-27 11:45:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 315.98 Mbit/s

95th percentile per-packet one-way delay: 111.586 ms

Loss rate: 0.00%

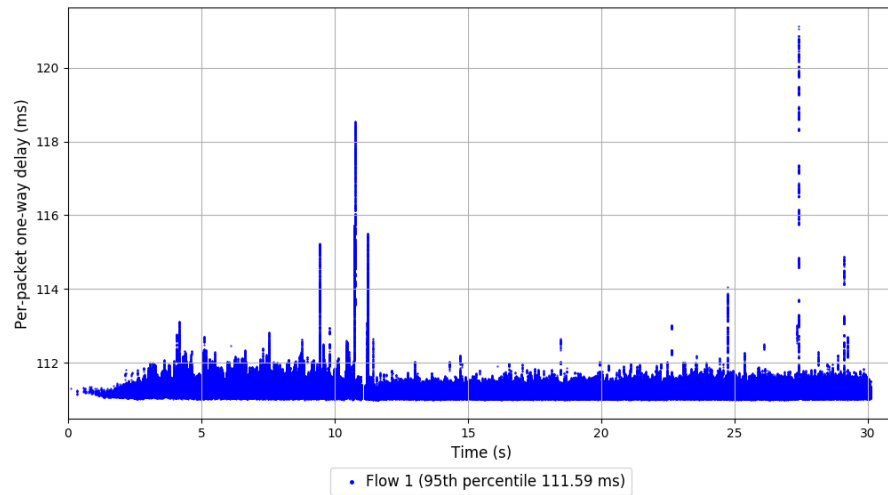
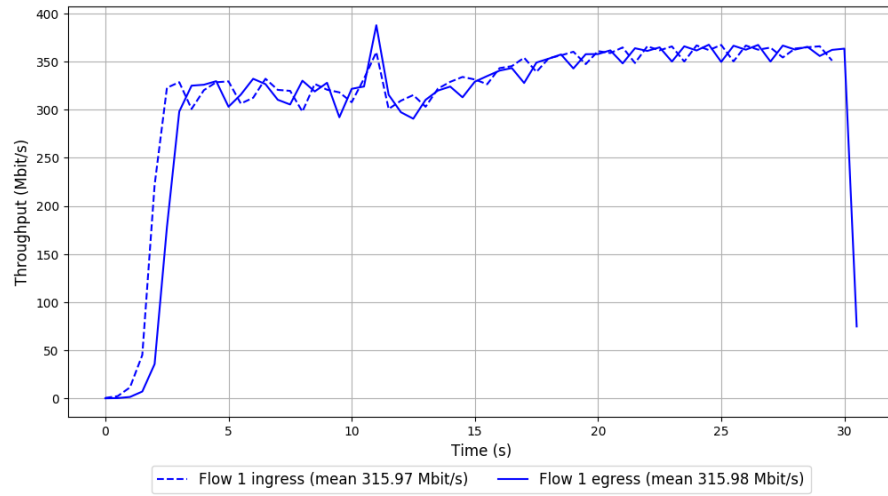
-- Flow 1:

Average throughput: 315.98 Mbit/s

95th percentile per-packet one-way delay: 111.586 ms

Loss rate: 0.00%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-08-27 09:54:50

End at: 2018-08-27 09:55:20

Local clock offset: -2.916 ms

Remote clock offset: 0.36 ms

Below is generated by plot.py at 2018-08-27 11:49:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 515.74 Mbit/s

95th percentile per-packet one-way delay: 192.433 ms

Loss rate: 0.15%

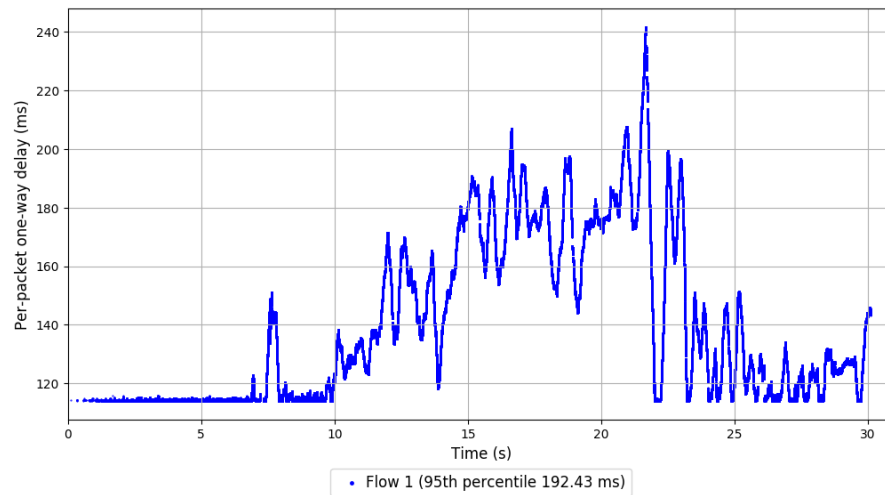
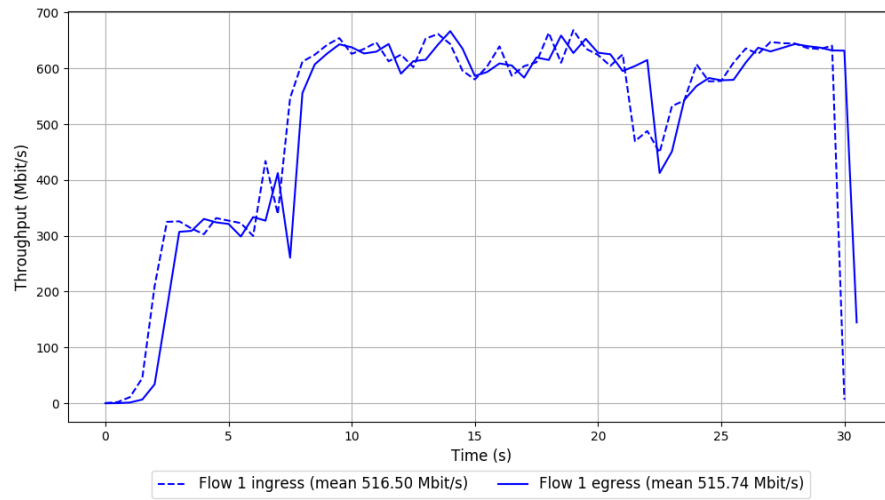
-- Flow 1:

Average throughput: 515.74 Mbit/s

95th percentile per-packet one-way delay: 192.433 ms

Loss rate: 0.15%

Run 8: Report of TCP Cubic — Data Link

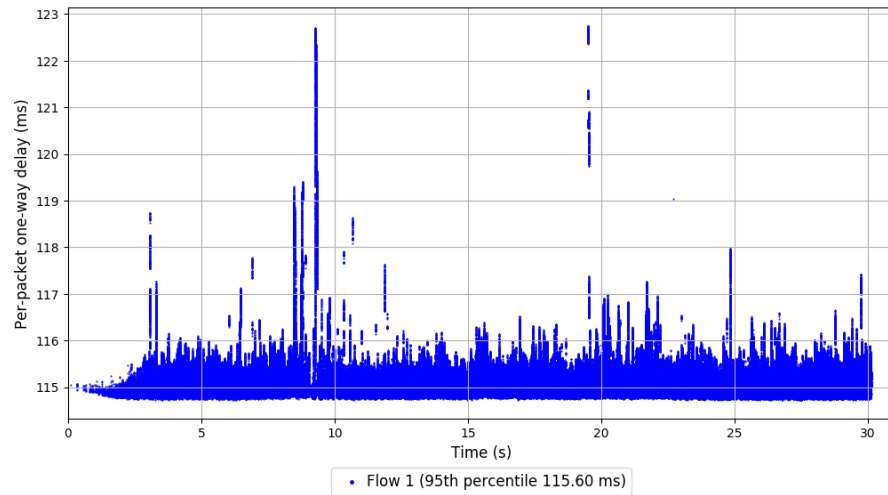
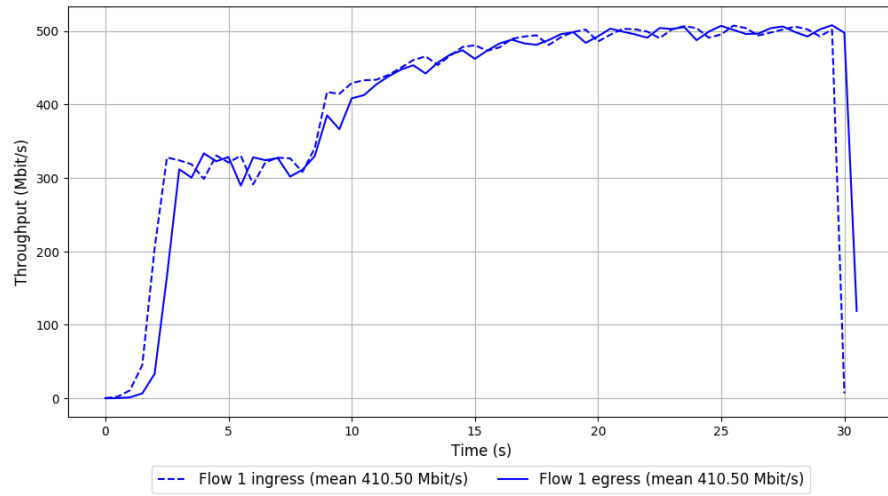


Run 9: Statistics of TCP Cubic

Start at: 2018-08-27 10:19:30
End at: 2018-08-27 10:20:00
Local clock offset: -2.999 ms
Remote clock offset: -0.326 ms

Below is generated by plot.py at 2018-08-27 11:49:00
Datalink statistics
-- Total of 1 flow:
Average throughput: 410.50 Mbit/s
95th percentile per-packet one-way delay: 115.600 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 410.50 Mbit/s
95th percentile per-packet one-way delay: 115.600 ms
Loss rate: 0.00%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-08-27 10:43:16

End at: 2018-08-27 10:43:46

Local clock offset: -0.206 ms

Remote clock offset: -0.071 ms

Below is generated by plot.py at 2018-08-27 11:49:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 555.96 Mbit/s

95th percentile per-packet one-way delay: 163.679 ms

Loss rate: 0.07%

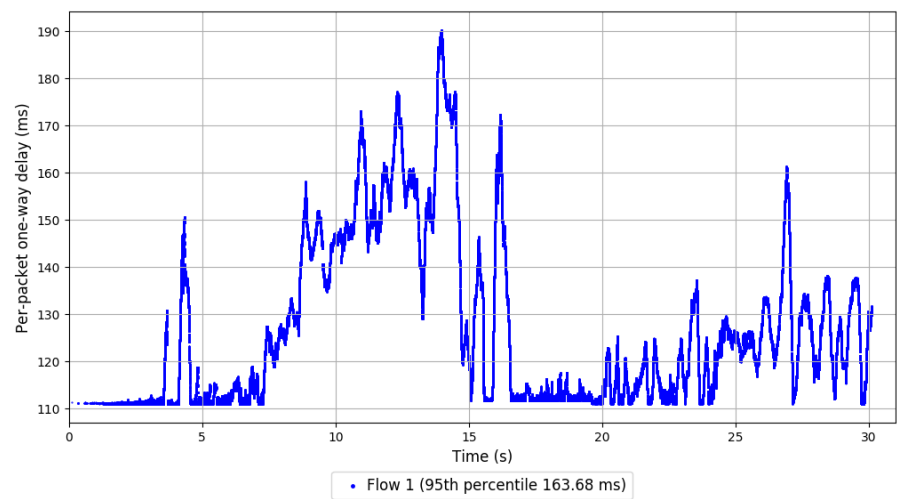
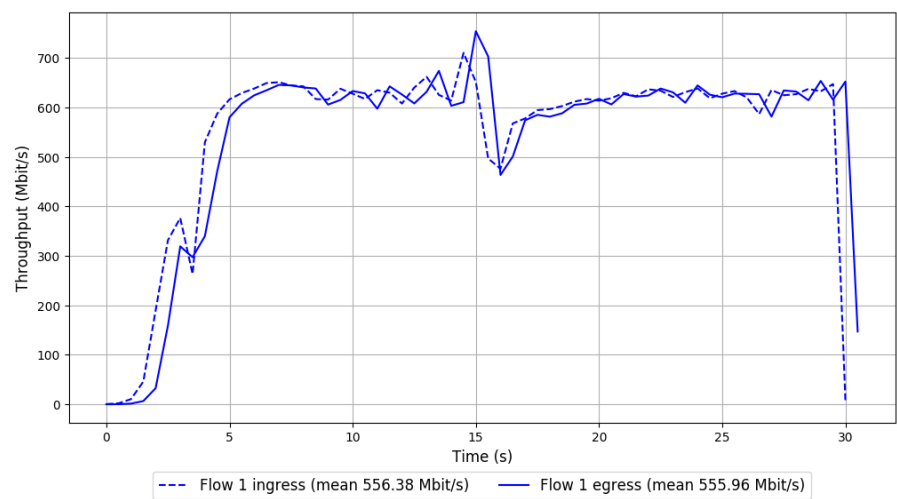
-- Flow 1:

Average throughput: 555.96 Mbit/s

95th percentile per-packet one-way delay: 163.679 ms

Loss rate: 0.07%

Run 10: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2018-08-27 07:14:51

End at: 2018-08-27 07:15:21

Local clock offset: -2.989 ms

Remote clock offset: 8.335 ms

Below is generated by plot.py at 2018-08-27 11:56:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 702.55 Mbit/s

95th percentile per-packet one-way delay: 201.011 ms

Loss rate: 10.84%

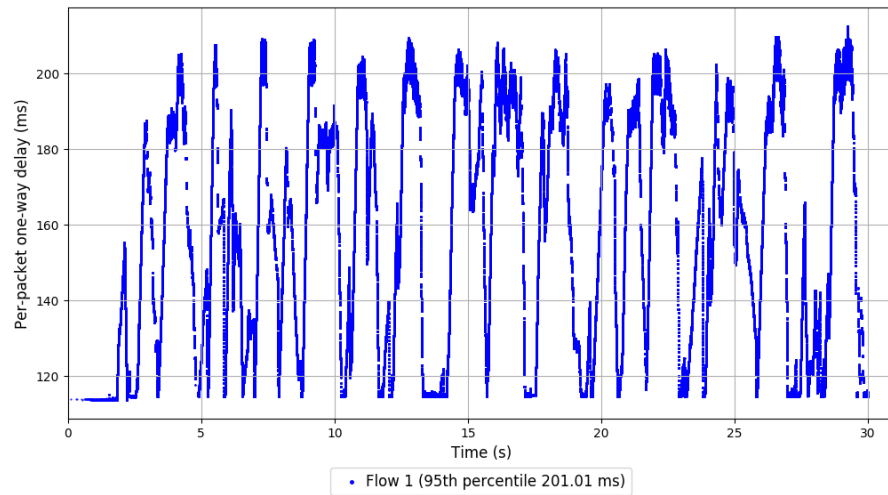
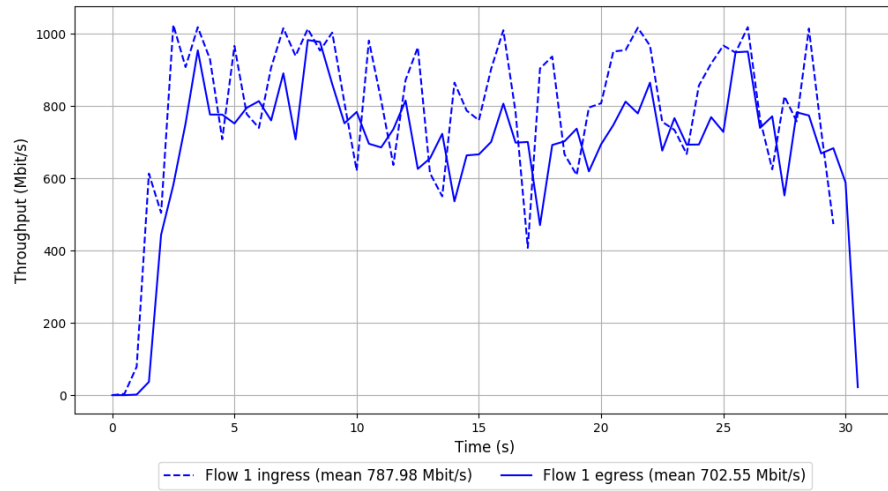
-- Flow 1:

Average throughput: 702.55 Mbit/s

95th percentile per-packet one-way delay: 201.011 ms

Loss rate: 10.84%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-08-27 07:39:19

End at: 2018-08-27 07:39:49

Local clock offset: -0.098 ms

Remote clock offset: 7.99 ms

Below is generated by plot.py at 2018-08-27 11:58:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 784.07 Mbit/s

95th percentile per-packet one-way delay: 183.983 ms

Loss rate: 5.76%

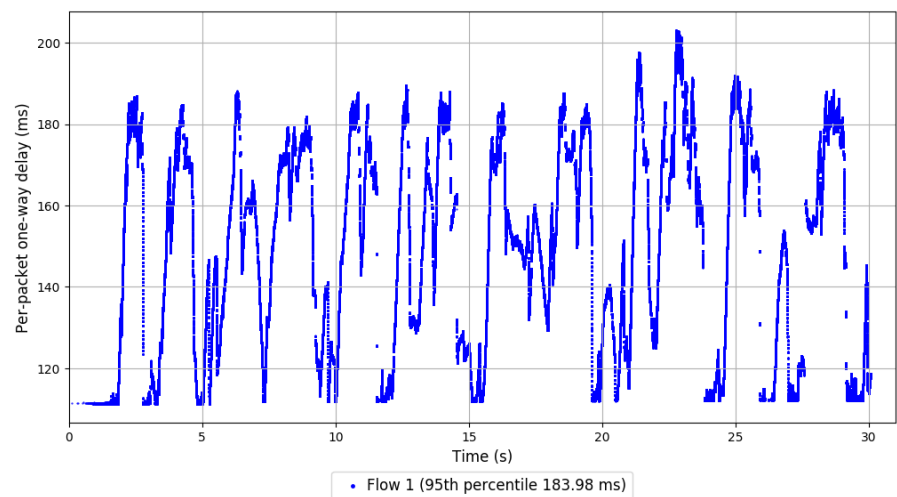
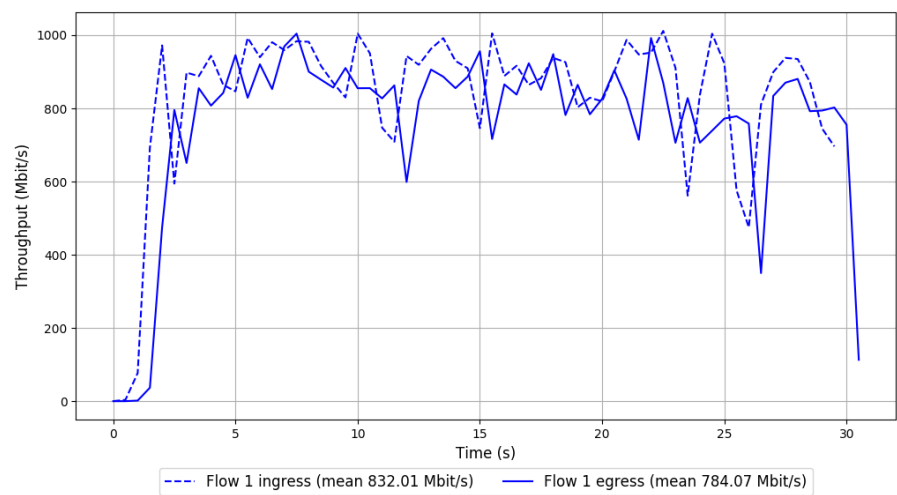
-- Flow 1:

Average throughput: 784.07 Mbit/s

95th percentile per-packet one-way delay: 183.983 ms

Loss rate: 5.76%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-08-27 08:03:29

End at: 2018-08-27 08:03:59

Local clock offset: 2.777 ms

Remote clock offset: 2.038 ms

Below is generated by plot.py at 2018-08-27 11:59:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 731.58 Mbit/s

95th percentile per-packet one-way delay: 207.519 ms

Loss rate: 8.33%

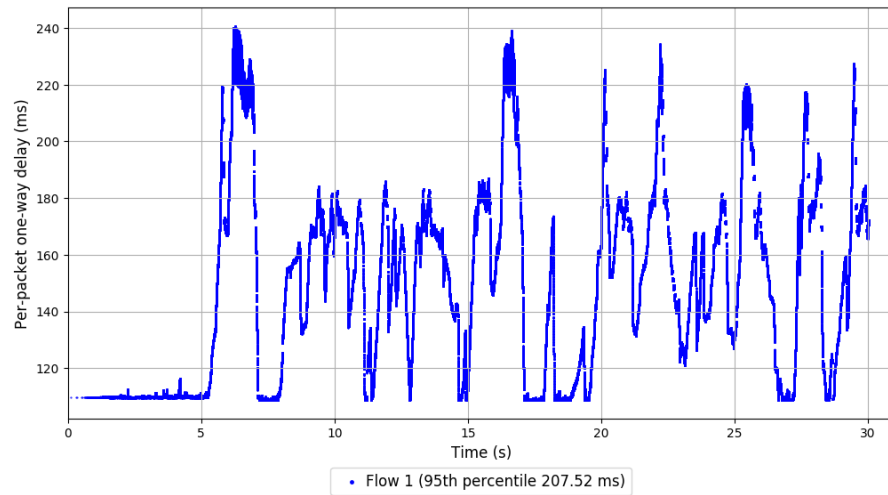
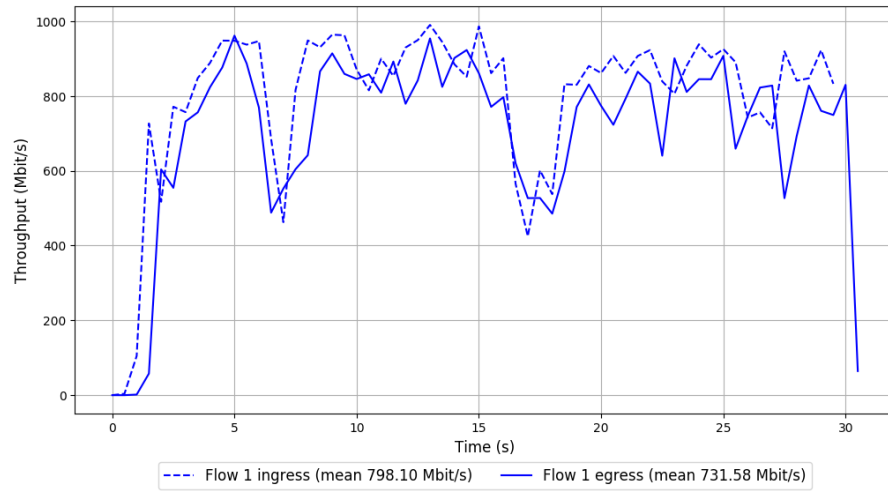
-- Flow 1:

Average throughput: 731.58 Mbit/s

95th percentile per-packet one-way delay: 207.519 ms

Loss rate: 8.33%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-08-27 08:27:43

End at: 2018-08-27 08:28:13

Local clock offset: -0.06 ms

Remote clock offset: 0.538 ms

Below is generated by plot.py at 2018-08-27 12:03:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 783.63 Mbit/s

95th percentile per-packet one-way delay: 187.816 ms

Loss rate: 6.55%

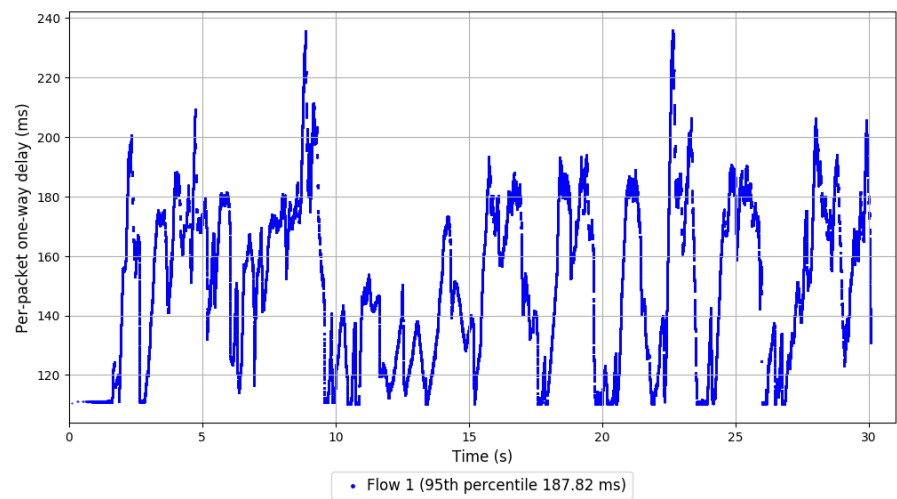
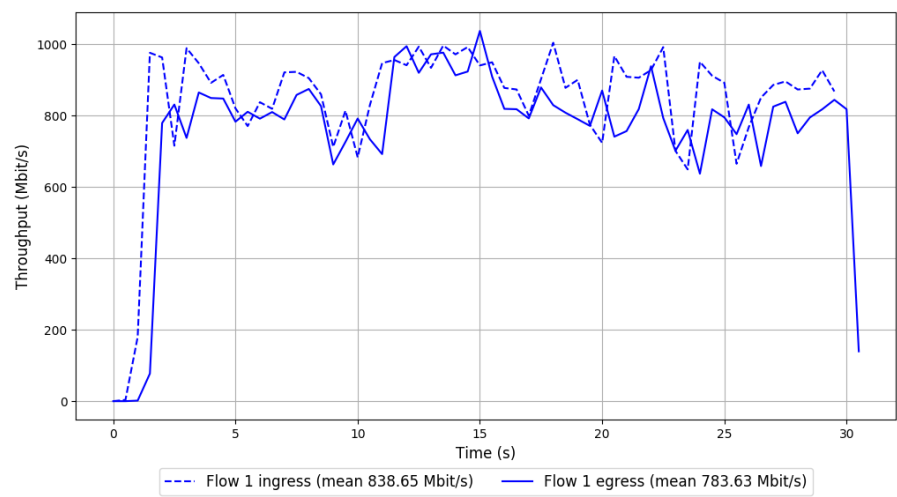
-- Flow 1:

Average throughput: 783.63 Mbit/s

95th percentile per-packet one-way delay: 187.816 ms

Loss rate: 6.55%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-08-27 08:52:09

End at: 2018-08-27 08:52:39

Local clock offset: -3.022 ms

Remote clock offset: 0.372 ms

Below is generated by plot.py at 2018-08-27 12:03:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 780.07 Mbit/s

95th percentile per-packet one-way delay: 190.240 ms

Loss rate: 5.96%

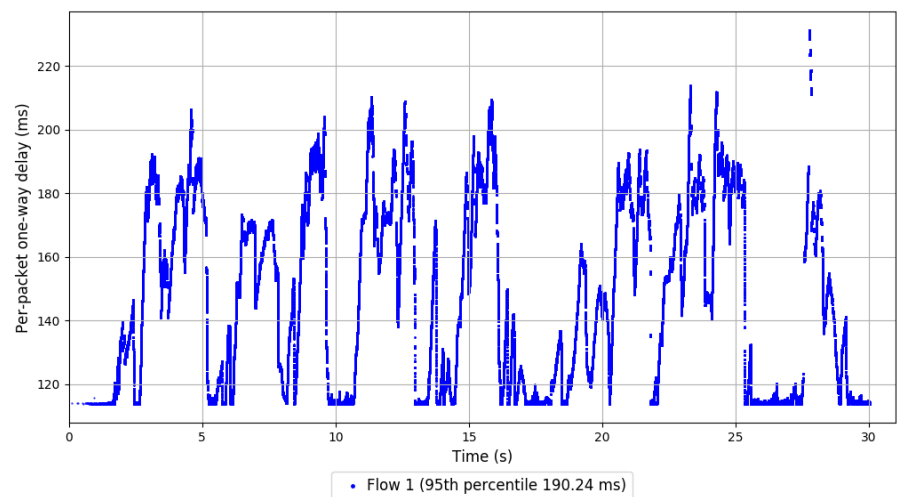
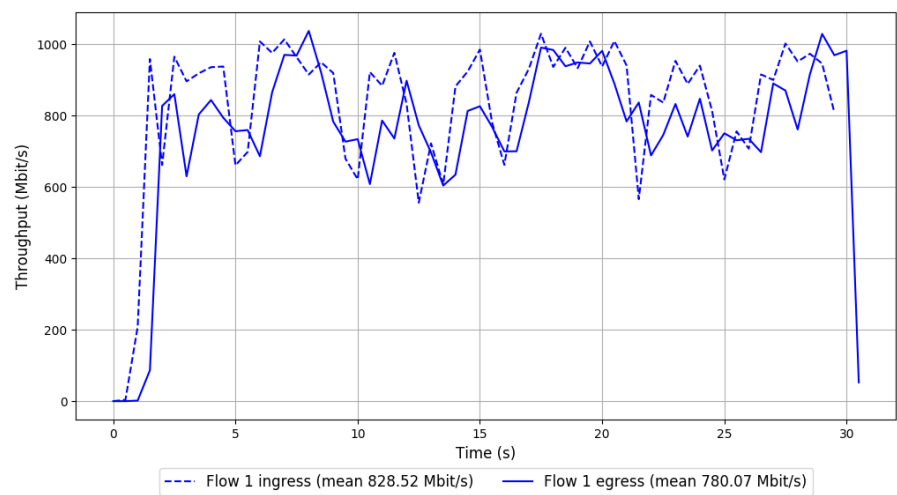
-- Flow 1:

Average throughput: 780.07 Mbit/s

95th percentile per-packet one-way delay: 190.240 ms

Loss rate: 5.96%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-08-27 09:16:19

End at: 2018-08-27 09:16:49

Local clock offset: -0.241 ms

Remote clock offset: 0.014 ms

Below is generated by plot.py at 2018-08-27 12:05:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 825.36 Mbit/s

95th percentile per-packet one-way delay: 227.348 ms

Loss rate: 4.80%

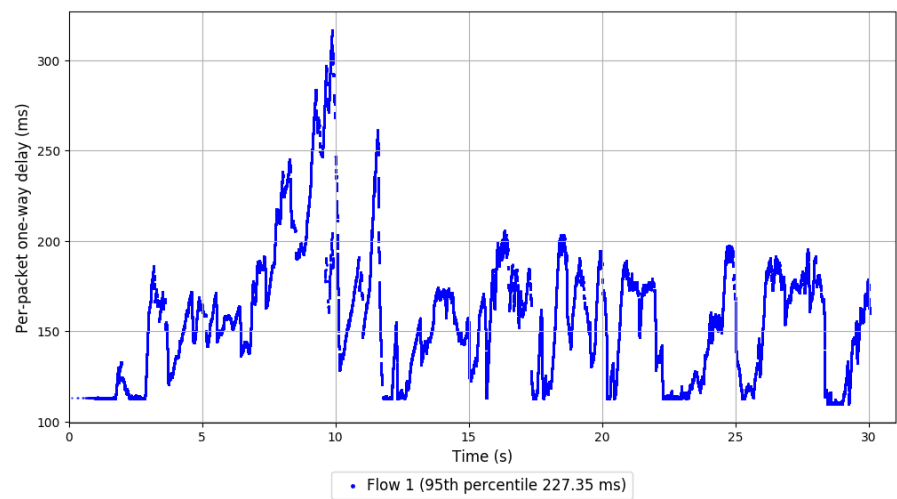
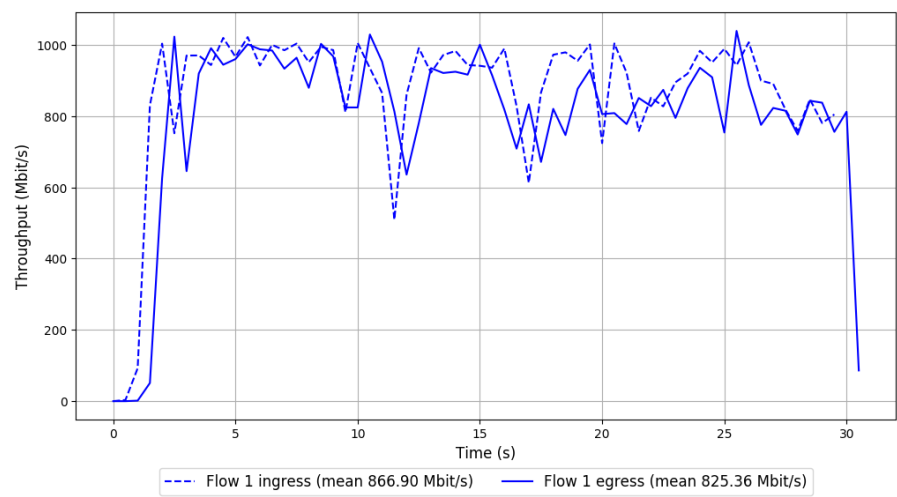
-- Flow 1:

Average throughput: 825.36 Mbit/s

95th percentile per-packet one-way delay: 227.348 ms

Loss rate: 4.80%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-08-27 09:40:35

End at: 2018-08-27 09:41:05

Local clock offset: 2.794 ms

Remote clock offset: 0.423 ms

Below is generated by plot.py at 2018-08-27 12:06:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 812.42 Mbit/s

95th percentile per-packet one-way delay: 185.613 ms

Loss rate: 4.66%

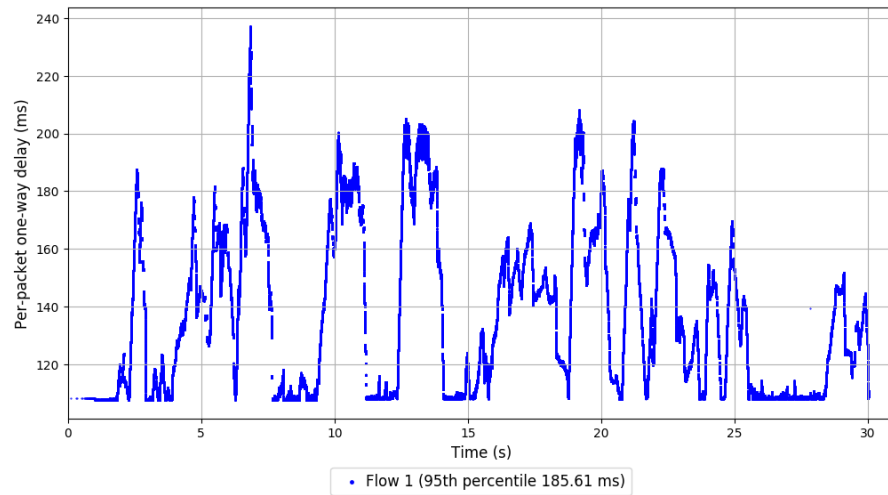
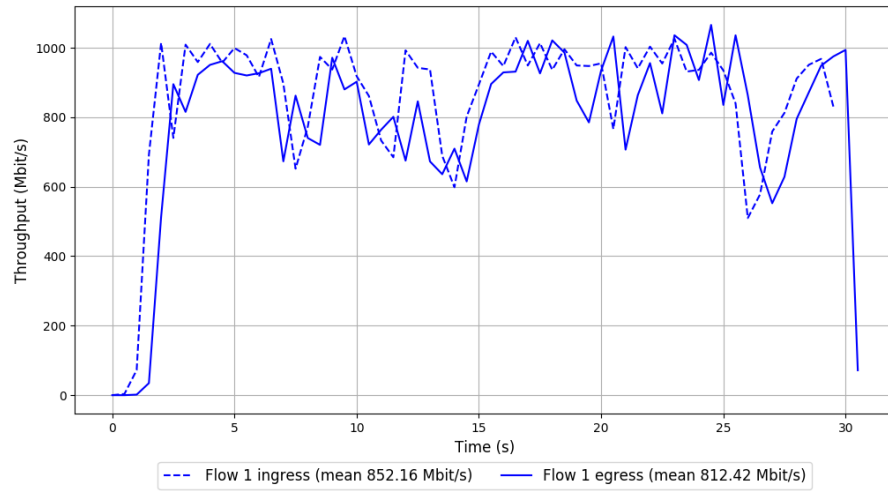
-- Flow 1:

Average throughput: 812.42 Mbit/s

95th percentile per-packet one-way delay: 185.613 ms

Loss rate: 4.66%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-08-27 10:04:56

End at: 2018-08-27 10:05:26

Local clock offset: 2.821 ms

Remote clock offset: 0.387 ms

Below is generated by plot.py at 2018-08-27 12:09:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 855.94 Mbit/s

95th percentile per-packet one-way delay: 178.731 ms

Loss rate: 3.49%

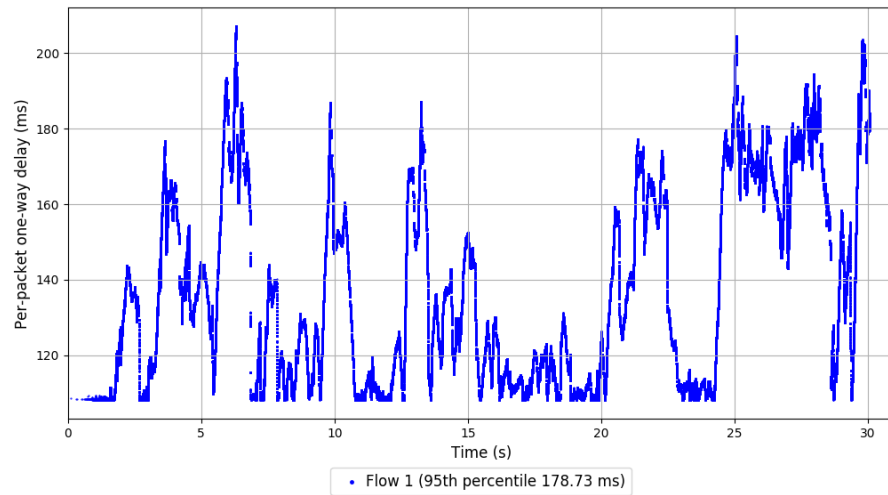
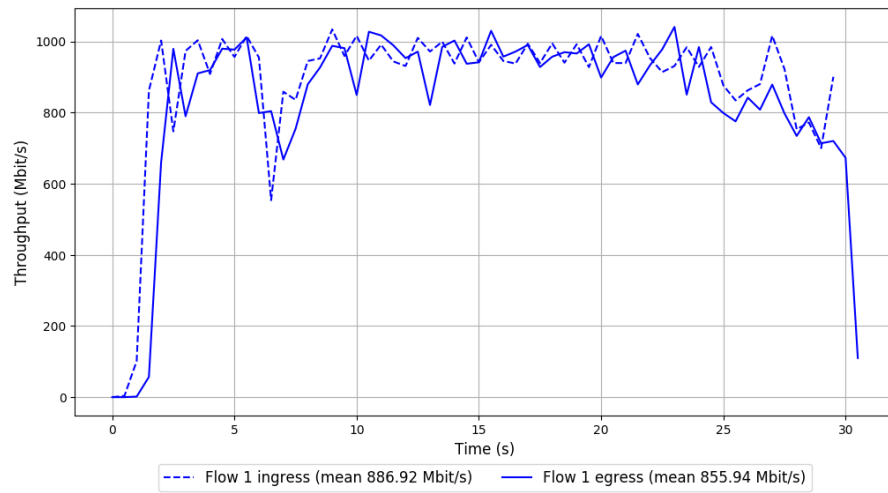
-- Flow 1:

Average throughput: 855.94 Mbit/s

95th percentile per-packet one-way delay: 178.731 ms

Loss rate: 3.49%

Run 8: Report of FillP — Data Link

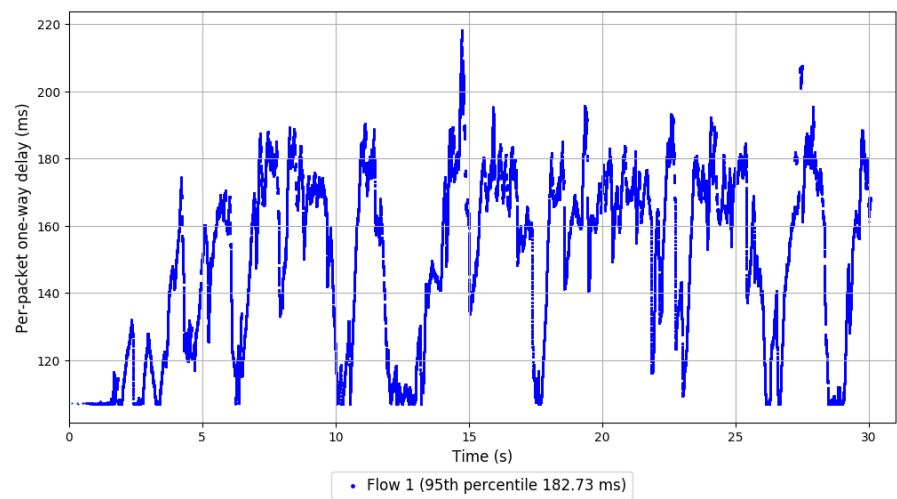
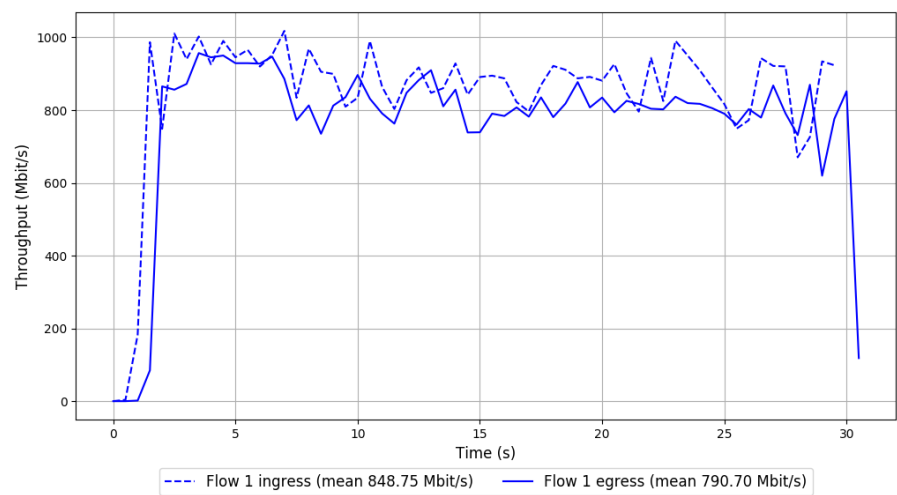


Run 9: Statistics of FillP

Start at: 2018-08-27 10:29:17
End at: 2018-08-27 10:29:47
Local clock offset: 2.703 ms
Remote clock offset: -0.315 ms

Below is generated by plot.py at 2018-08-27 12:14:39
Datalink statistics
-- Total of 1 flow:
Average throughput: 790.70 Mbit/s
95th percentile per-packet one-way delay: 182.732 ms
Loss rate: 6.83%
-- Flow 1:
Average throughput: 790.70 Mbit/s
95th percentile per-packet one-way delay: 182.732 ms
Loss rate: 6.83%

Run 9: Report of FillP — Data Link

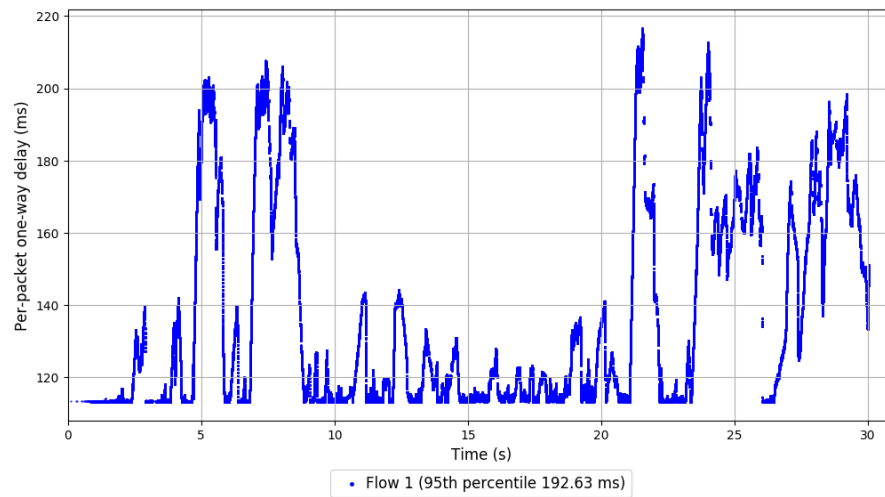
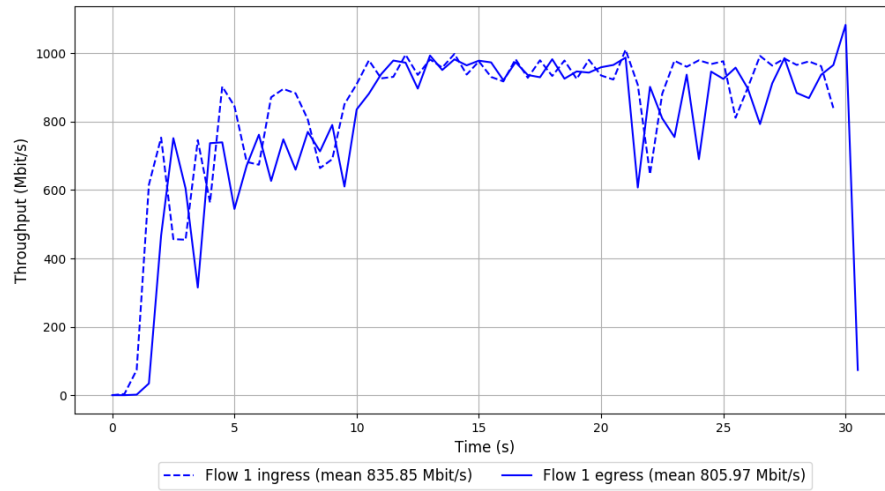


Run 10: Statistics of FillP

Start at: 2018-08-27 10:53:16
End at: 2018-08-27 10:53:46
Local clock offset: -2.749 ms
Remote clock offset: -0.494 ms

Below is generated by plot.py at 2018-08-27 12:16:40
Datalink statistics
-- Total of 1 flow:
Average throughput: 805.97 Mbit/s
95th percentile per-packet one-way delay: 192.631 ms
Loss rate: 3.57%
-- Flow 1:
Average throughput: 805.97 Mbit/s
95th percentile per-packet one-way delay: 192.631 ms
Loss rate: 3.57%

Run 10: Report of FillP — Data Link



Run 1: Statistics of FillP-Sheep

Start at: 2018-08-27 07:17:54

End at: 2018-08-27 07:18:24

Local clock offset: -0.07 ms

Remote clock offset: 6.854 ms

Below is generated by plot.py at 2018-08-27 12:17:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 760.74 Mbit/s

95th percentile per-packet one-way delay: 184.155 ms

Loss rate: 5.82%

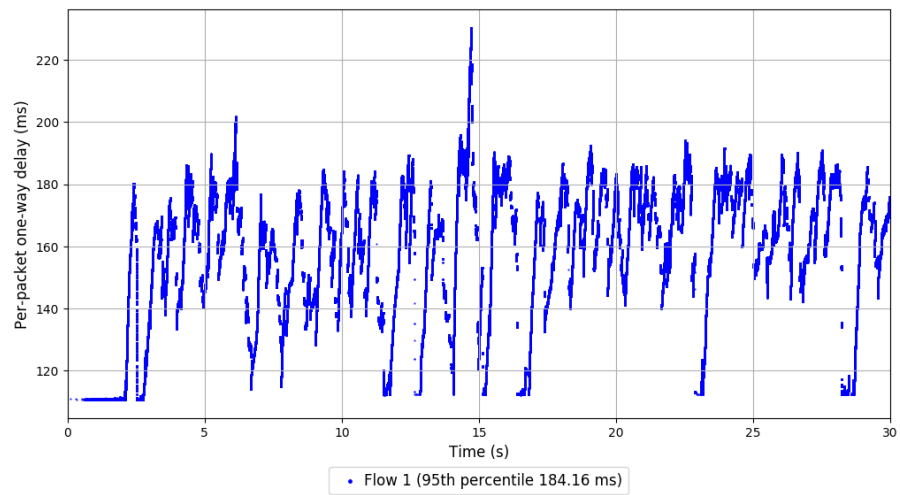
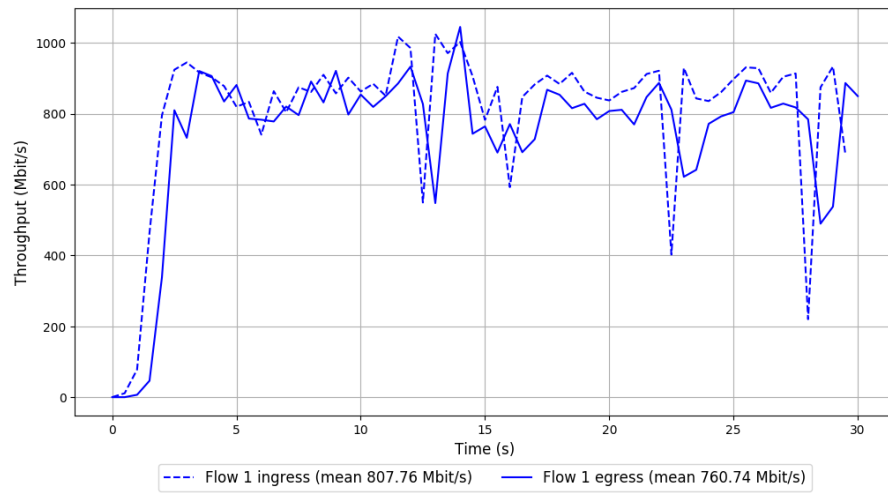
-- Flow 1:

Average throughput: 760.74 Mbit/s

95th percentile per-packet one-way delay: 184.155 ms

Loss rate: 5.82%

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

Start at: 2018-08-27 07:42:29

End at: 2018-08-27 07:42:59

Local clock offset: 2.728 ms

Remote clock offset: 4.748 ms

Below is generated by plot.py at 2018-08-27 12:19:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 735.75 Mbit/s

95th percentile per-packet one-way delay: 195.310 ms

Loss rate: 5.21%

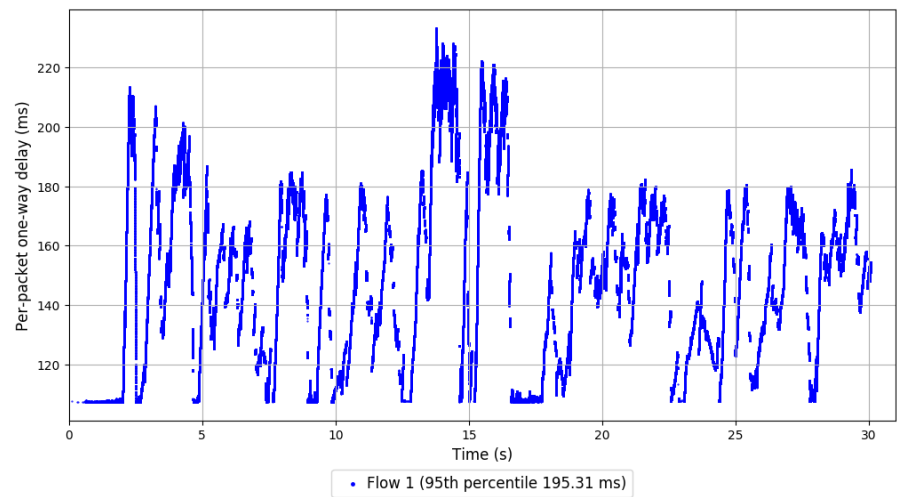
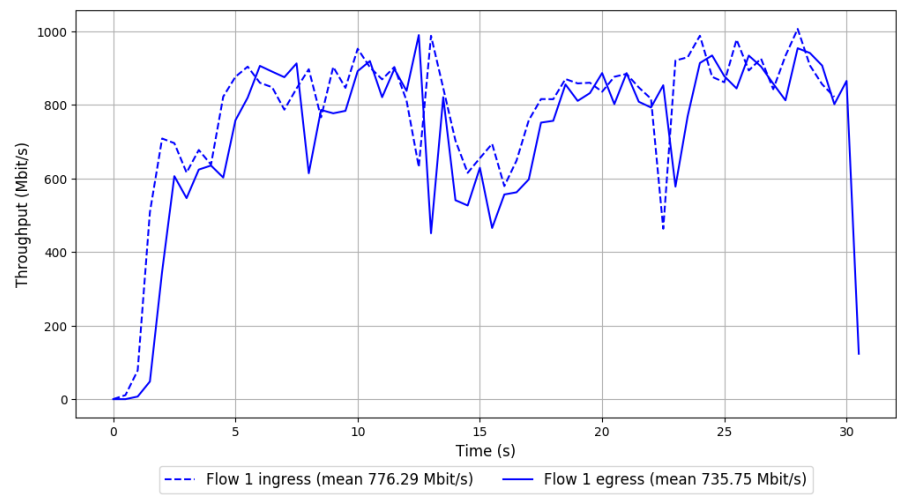
-- Flow 1:

Average throughput: 735.75 Mbit/s

95th percentile per-packet one-way delay: 195.310 ms

Loss rate: 5.21%

Run 2: Report of FillP-Sheep — Data Link



Run 3: Statistics of FillP-Sheep

Start at: 2018-08-27 08:06:40

End at: 2018-08-27 08:07:10

Local clock offset: -2.751 ms

Remote clock offset: 1.931 ms

Below is generated by plot.py at 2018-08-27 12:20:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 802.46 Mbit/s

95th percentile per-packet one-way delay: 185.832 ms

Loss rate: 5.57%

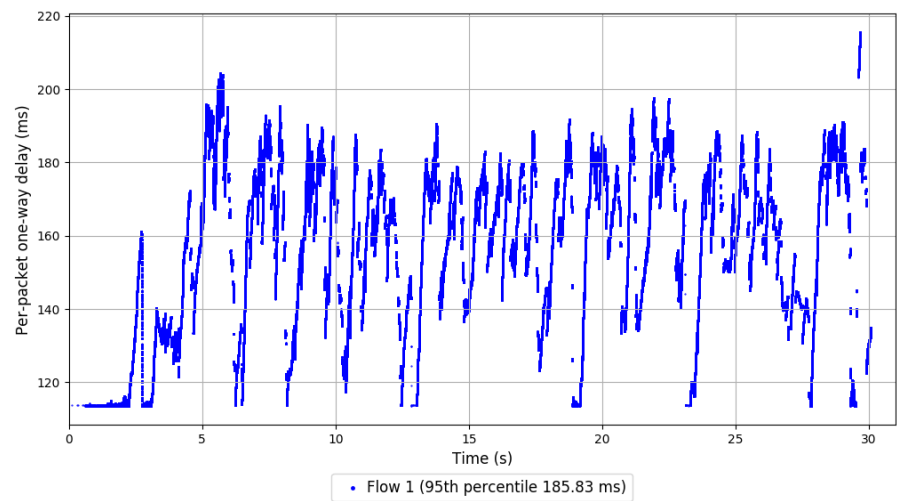
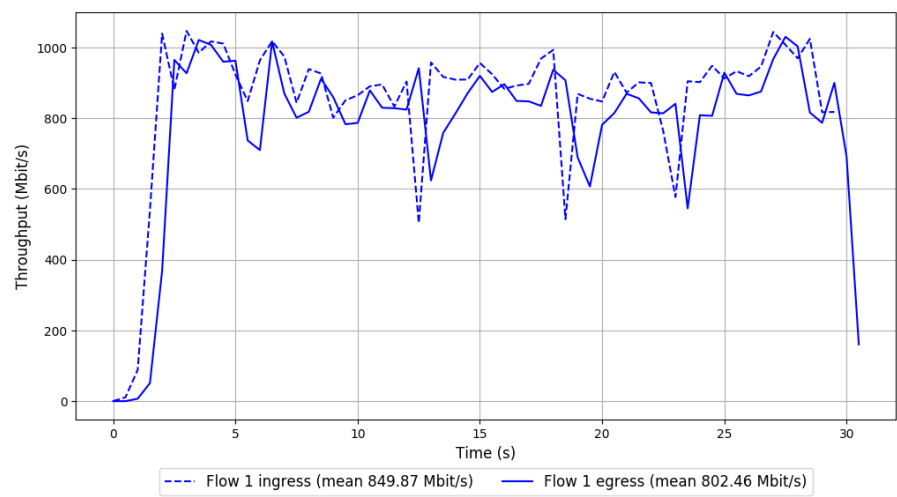
-- Flow 1:

Average throughput: 802.46 Mbit/s

95th percentile per-packet one-way delay: 185.832 ms

Loss rate: 5.57%

Run 3: Report of FillP-Sheep — Data Link



Run 4: Statistics of FillP-Sheep

Start at: 2018-08-27 08:30:58

End at: 2018-08-27 08:31:29

Local clock offset: -0.096 ms

Remote clock offset: 0.532 ms

Below is generated by plot.py at 2018-08-27 12:22:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 740.97 Mbit/s

95th percentile per-packet one-way delay: 194.987 ms

Loss rate: 7.85%

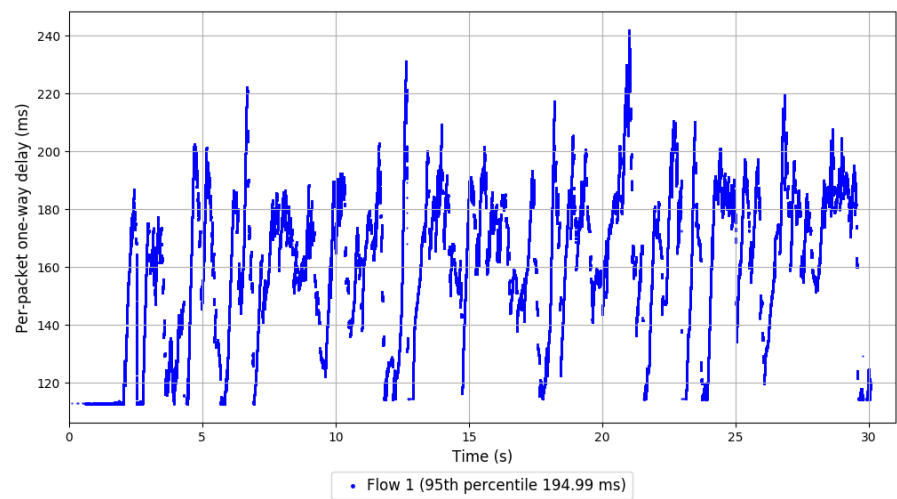
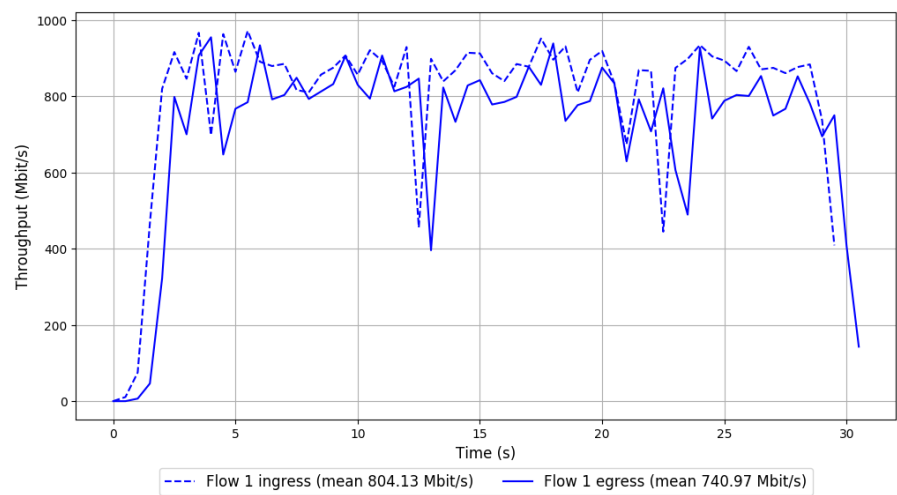
-- Flow 1:

Average throughput: 740.97 Mbit/s

95th percentile per-packet one-way delay: 194.987 ms

Loss rate: 7.85%

Run 4: Report of FillP-Sheep — Data Link



Run 5: Statistics of FillP-Sheep

Start at: 2018-08-27 08:55:19

End at: 2018-08-27 08:55:49

Local clock offset: -3.028 ms

Remote clock offset: 0.851 ms

Below is generated by plot.py at 2018-08-27 12:24:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 783.89 Mbit/s

95th percentile per-packet one-way delay: 191.039 ms

Loss rate: 7.18%

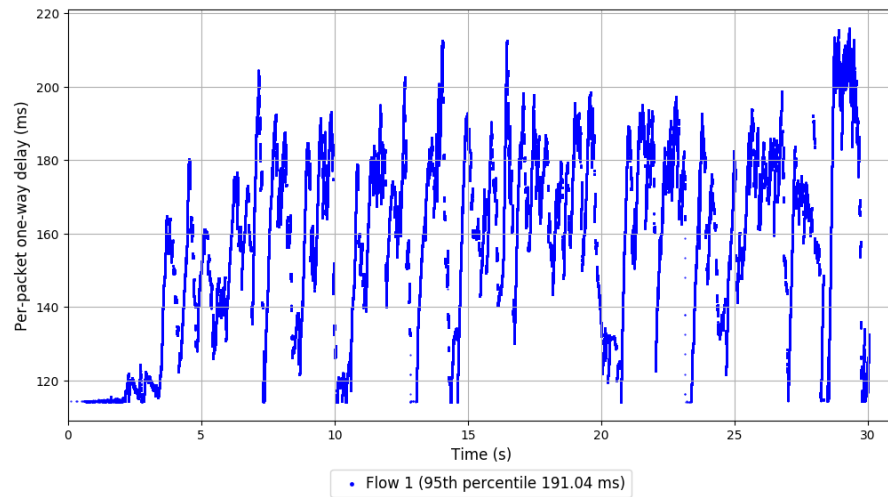
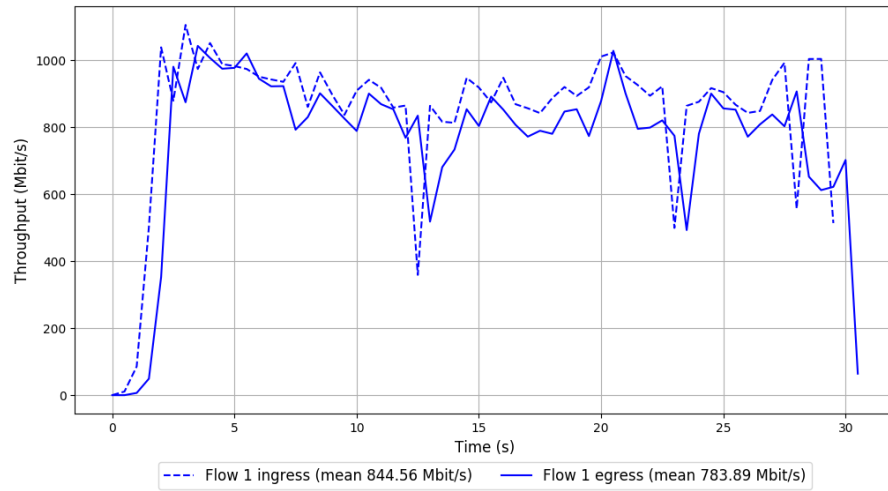
-- Flow 1:

Average throughput: 783.89 Mbit/s

95th percentile per-packet one-way delay: 191.039 ms

Loss rate: 7.18%

Run 5: Report of FillP-Sheep — Data Link



Run 6: Statistics of FillP-Sheep

Start at: 2018-08-27 09:19:35

End at: 2018-08-27 09:20:05

Local clock offset: 2.516 ms

Remote clock offset: 1.018 ms

Below is generated by plot.py at 2018-08-27 12:29:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 836.57 Mbit/s

95th percentile per-packet one-way delay: 178.901 ms

Loss rate: 4.61%

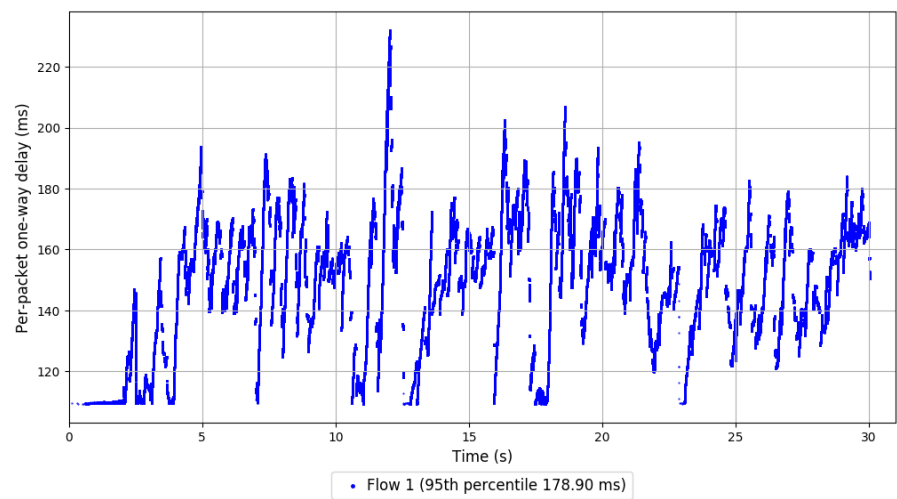
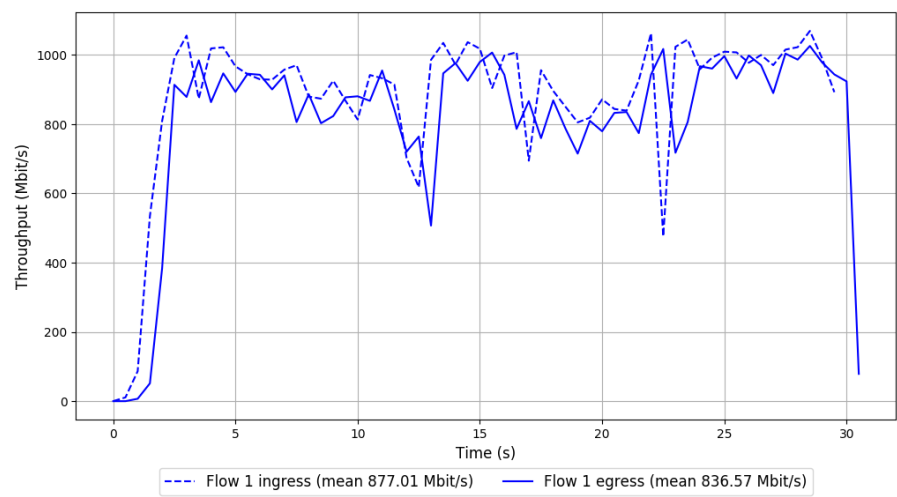
-- Flow 1:

Average throughput: 836.57 Mbit/s

95th percentile per-packet one-way delay: 178.901 ms

Loss rate: 4.61%

Run 6: Report of FillP-Sheep — Data Link



Run 7: Statistics of FillP-Sheep

Start at: 2018-08-27 09:43:46

End at: 2018-08-27 09:44:16

Local clock offset: -2.908 ms

Remote clock offset: 0.349 ms

Below is generated by plot.py at 2018-08-27 12:33:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 801.08 Mbit/s

95th percentile per-packet one-way delay: 191.841 ms

Loss rate: 7.19%

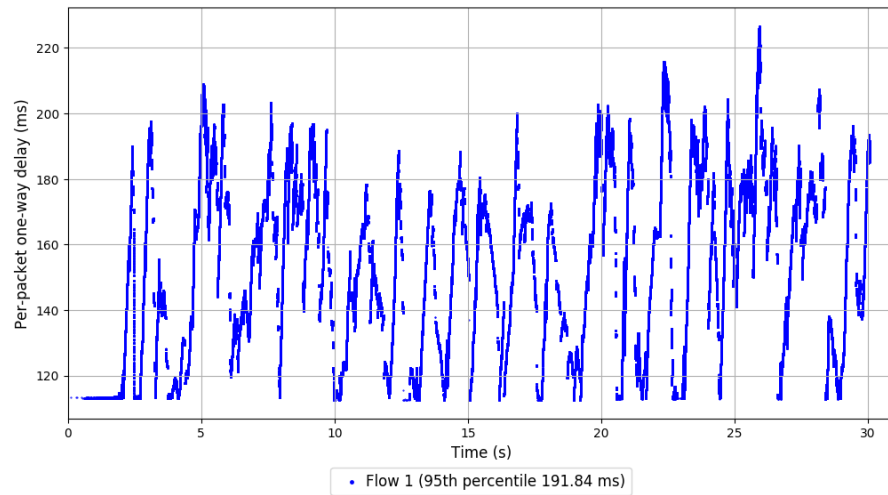
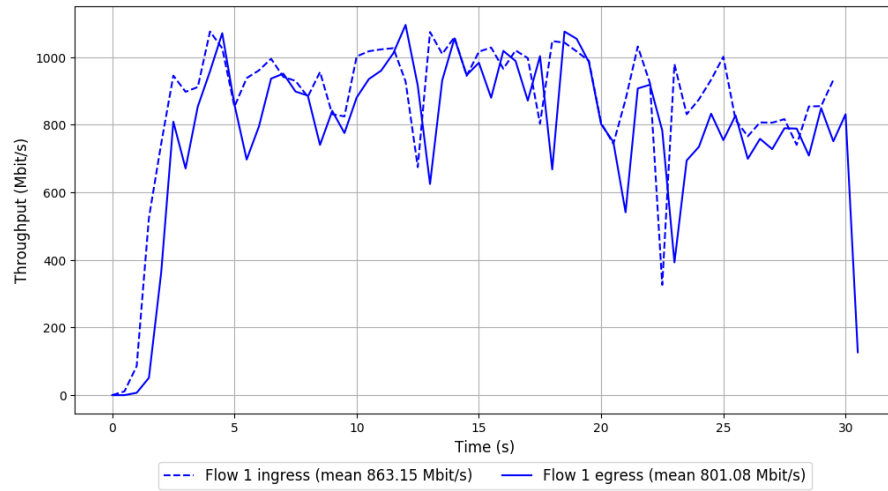
-- Flow 1:

Average throughput: 801.08 Mbit/s

95th percentile per-packet one-way delay: 191.841 ms

Loss rate: 7.19%

Run 7: Report of FillP-Sheep — Data Link

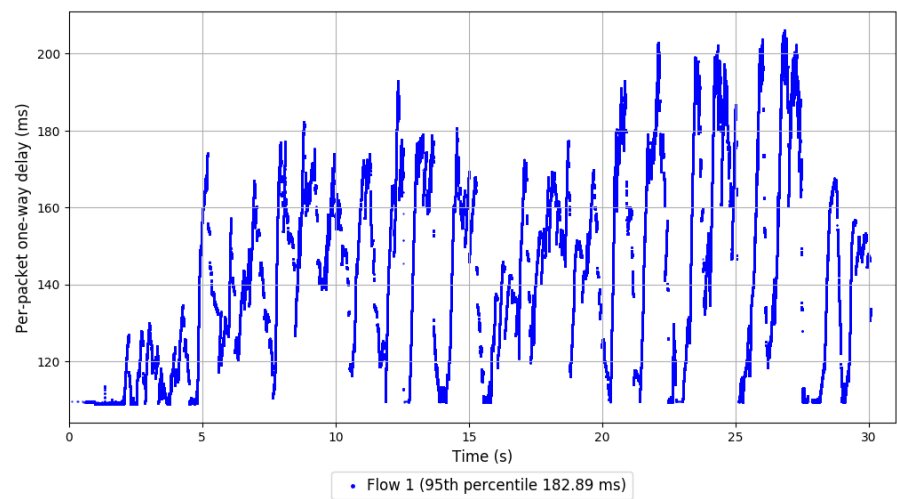
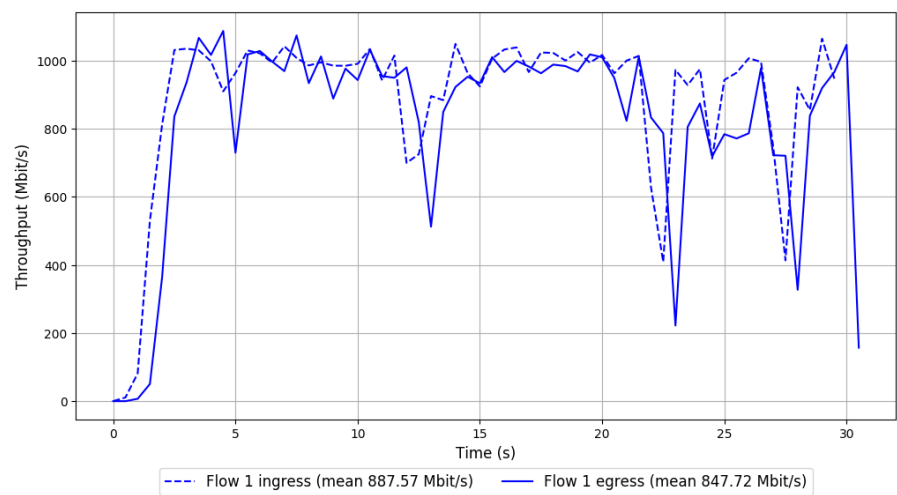


Run 8: Statistics of FillP-Sheep

Start at: 2018-08-27 10:08:15
End at: 2018-08-27 10:08:45
Local clock offset: -0.176 ms
Remote clock offset: -1.169 ms

Below is generated by plot.py at 2018-08-27 12:36:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 847.72 Mbit/s
95th percentile per-packet one-way delay: 182.891 ms
Loss rate: 4.49%
-- Flow 1:
Average throughput: 847.72 Mbit/s
95th percentile per-packet one-way delay: 182.891 ms
Loss rate: 4.49%

Run 8: Report of FillP-Sheep — Data Link



Run 9: Statistics of FillP-Sheep

Start at: 2018-08-27 10:32:34

End at: 2018-08-27 10:33:04

Local clock offset: -0.129 ms

Remote clock offset: -0.051 ms

Below is generated by plot.py at 2018-08-27 12:36:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 719.12 Mbit/s

95th percentile per-packet one-way delay: 180.294 ms

Loss rate: 2.10%

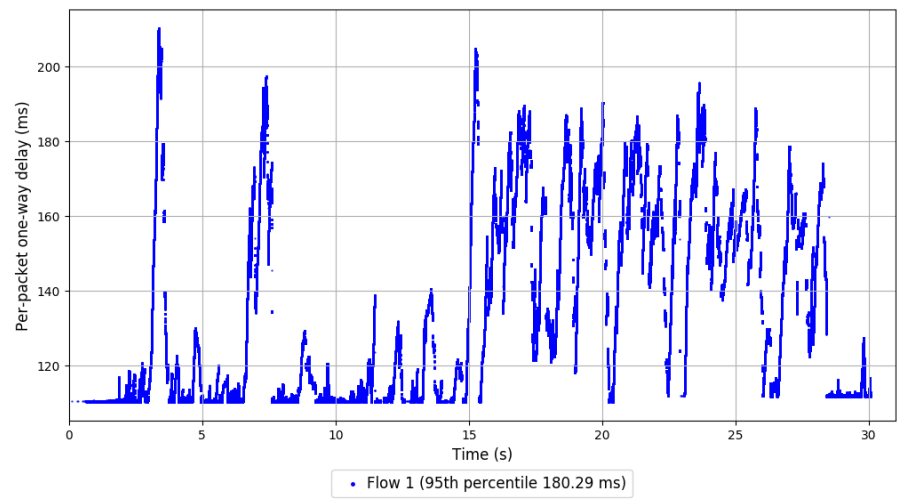
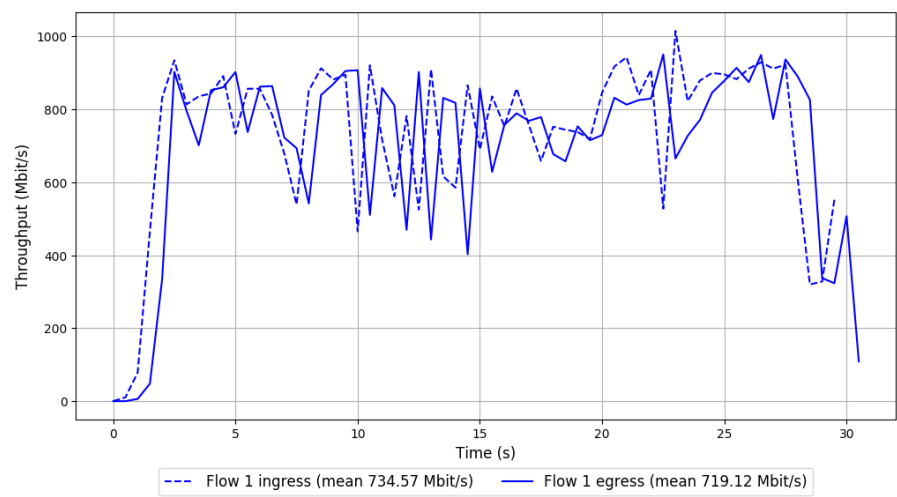
-- Flow 1:

Average throughput: 719.12 Mbit/s

95th percentile per-packet one-way delay: 180.294 ms

Loss rate: 2.10%

Run 9: Report of FillP-Sheep — Data Link

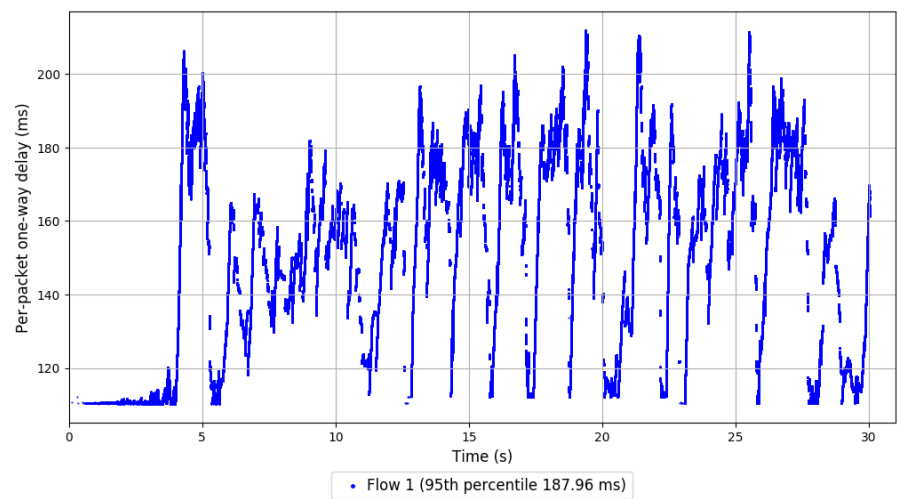
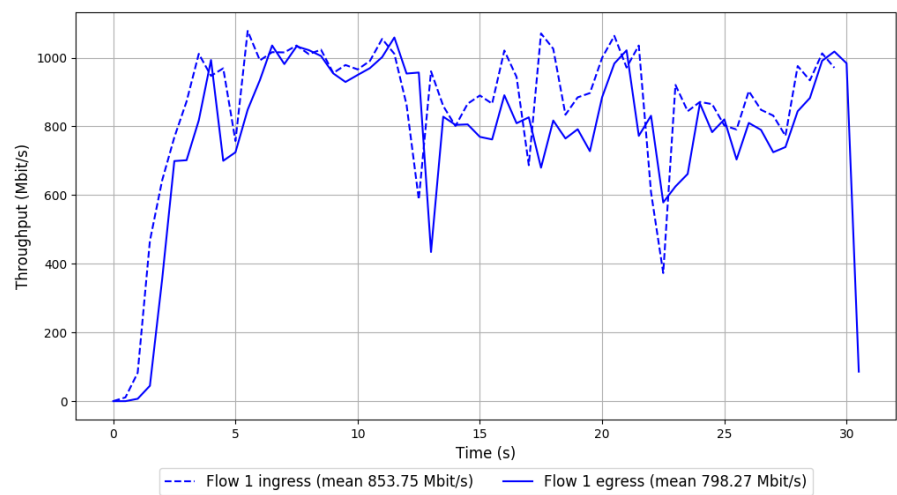


Run 10: Statistics of FillP-Sheep

Start at: 2018-08-27 10:56:33
End at: 2018-08-27 10:57:03
Local clock offset: -0.029 ms
Remote clock offset: -0.573 ms

Below is generated by plot.py at 2018-08-27 12:38:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 798.27 Mbit/s
95th percentile per-packet one-way delay: 187.959 ms
Loss rate: 6.49%
-- Flow 1:
Average throughput: 798.27 Mbit/s
95th percentile per-packet one-way delay: 187.959 ms
Loss rate: 6.49%

Run 10: Report of FillP-Sheep — Data Link

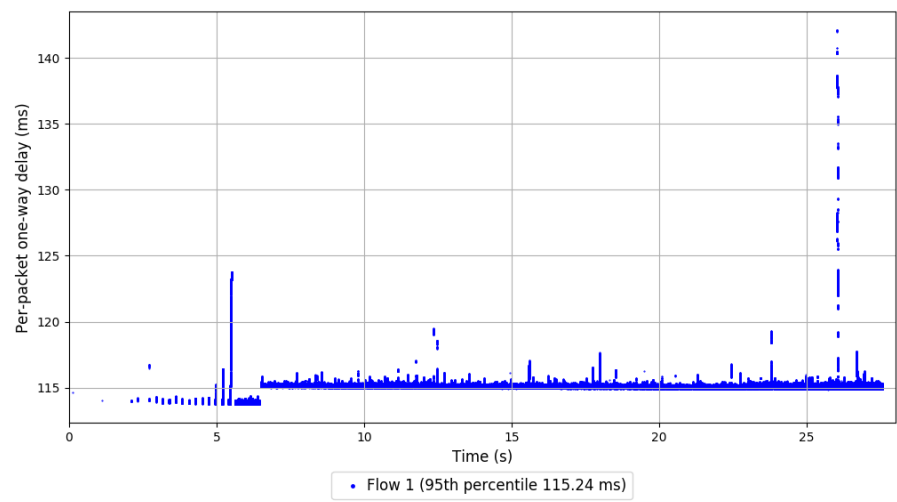
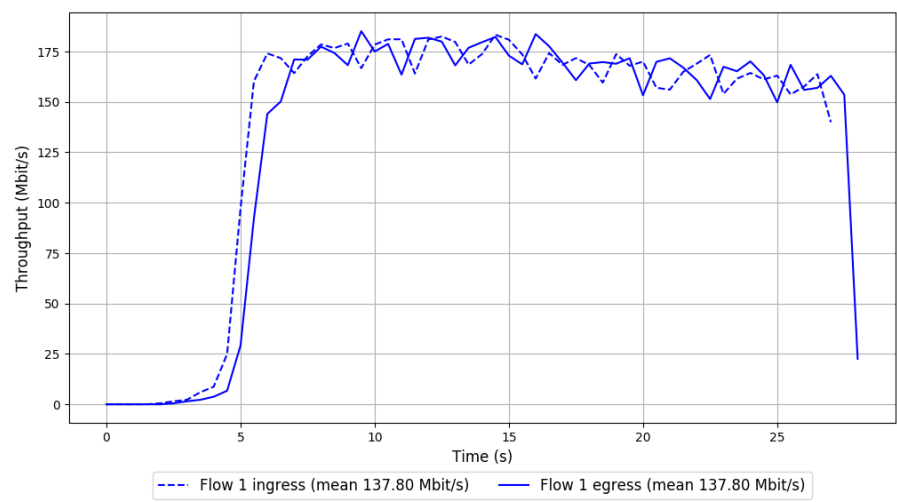


Run 1: Statistics of Indigo

Start at: 2018-08-27 06:58:27
End at: 2018-08-27 06:58:57
Local clock offset: -3.034 ms
Remote clock offset: 16.903 ms

Below is generated by plot.py at 2018-08-27 12:38:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 137.80 Mbit/s
95th percentile per-packet one-way delay: 115.244 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 137.80 Mbit/s
95th percentile per-packet one-way delay: 115.244 ms
Loss rate: 0.00%

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2018-08-27 07:22:24

End at: 2018-08-27 07:22:54

Local clock offset: -2.907 ms

Remote clock offset: 6.979 ms

Below is generated by plot.py at 2018-08-27 12:38:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 210.31 Mbit/s

95th percentile per-packet one-way delay: 114.233 ms

Loss rate: 0.00%

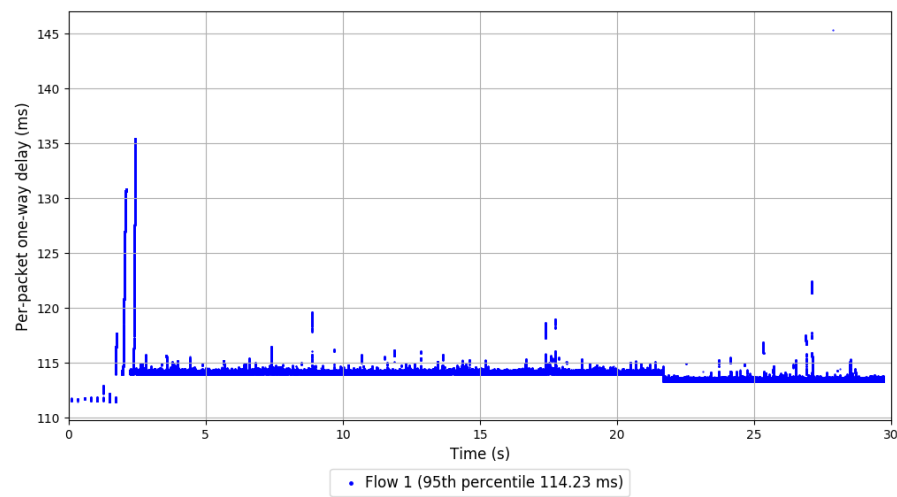
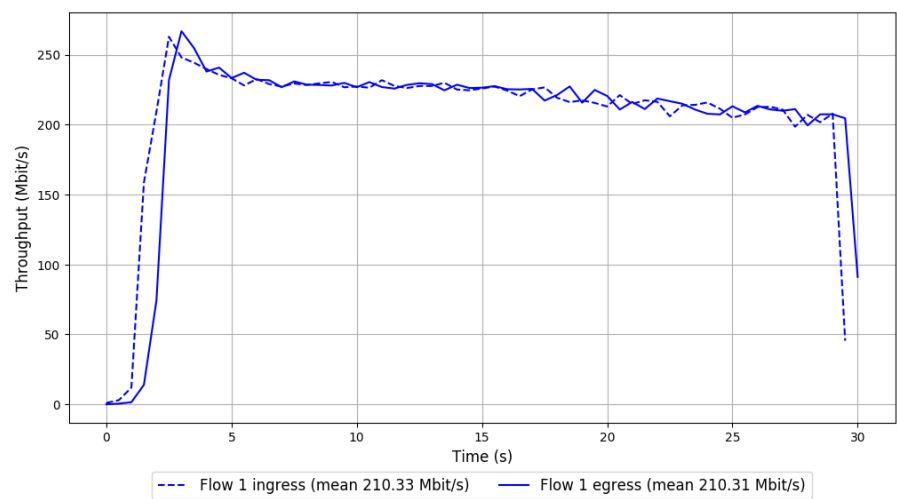
-- Flow 1:

Average throughput: 210.31 Mbit/s

95th percentile per-packet one-way delay: 114.233 ms

Loss rate: 0.00%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-08-27 07:46:58

End at: 2018-08-27 07:47:28

Local clock offset: -0.109 ms

Remote clock offset: 3.511 ms

Below is generated by plot.py at 2018-08-27 12:38:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 157.18 Mbit/s

95th percentile per-packet one-way delay: 111.631 ms

Loss rate: 0.00%

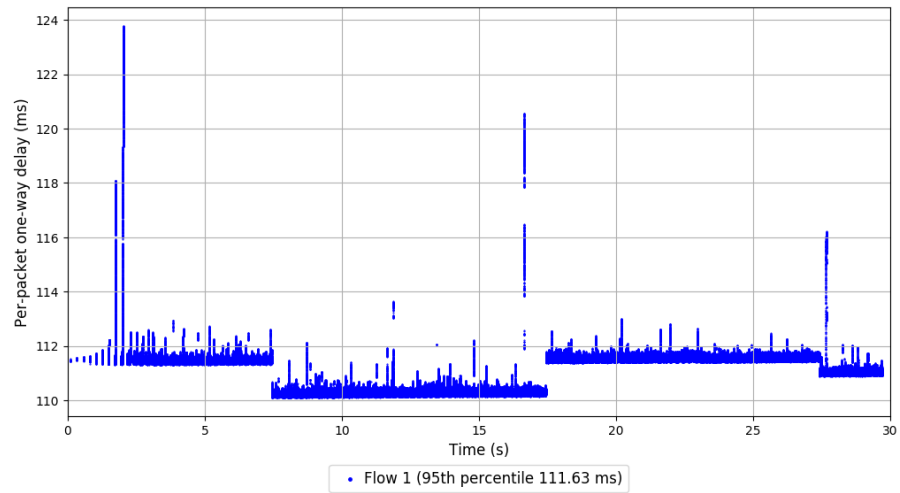
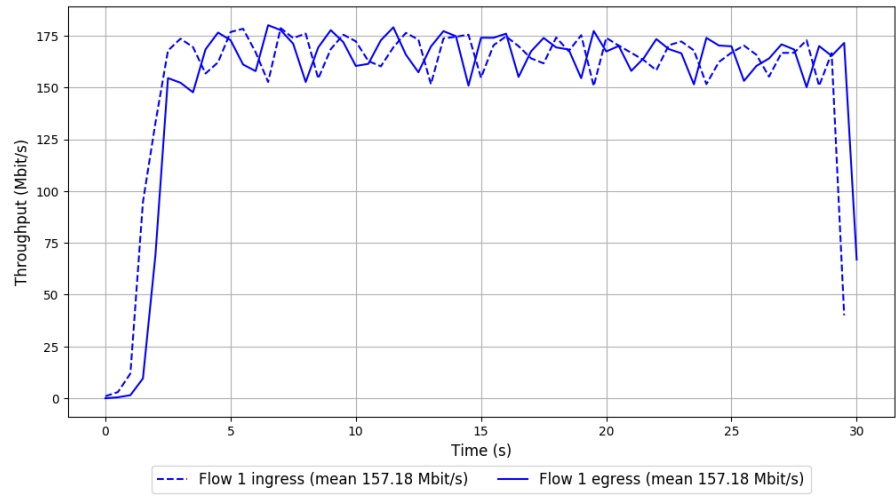
-- Flow 1:

Average throughput: 157.18 Mbit/s

95th percentile per-packet one-way delay: 111.631 ms

Loss rate: 0.00%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-08-27 08:11:10

End at: 2018-08-27 08:11:40

Local clock offset: 2.619 ms

Remote clock offset: 1.091 ms

Below is generated by plot.py at 2018-08-27 12:38:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 155.45 Mbit/s

95th percentile per-packet one-way delay: 107.445 ms

Loss rate: 0.00%

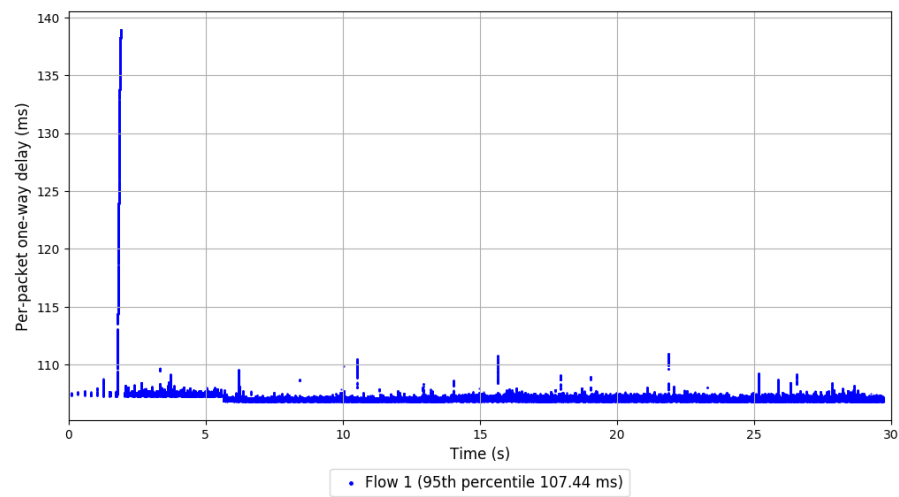
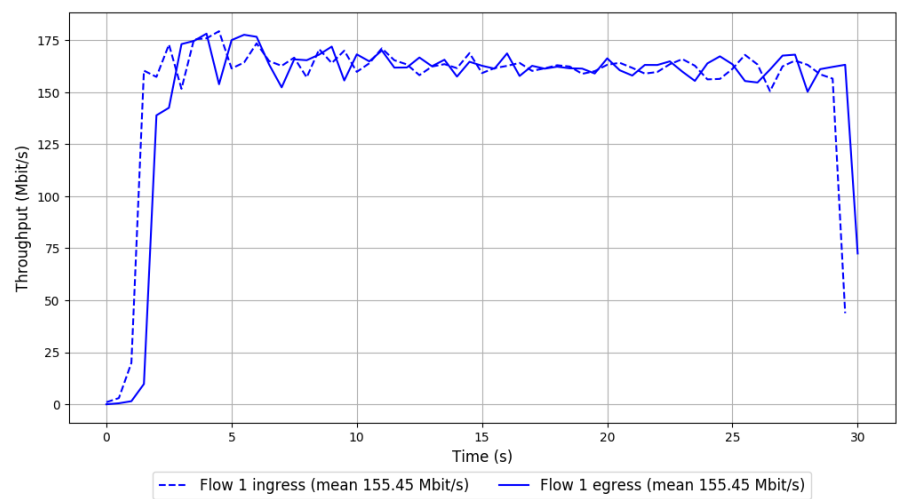
-- Flow 1:

Average throughput: 155.45 Mbit/s

95th percentile per-packet one-way delay: 107.445 ms

Loss rate: 0.00%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-08-27 08:35:25

End at: 2018-08-27 08:35:55

Local clock offset: -2.937 ms

Remote clock offset: 0.535 ms

Below is generated by plot.py at 2018-08-27 12:38:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 159.79 Mbit/s

95th percentile per-packet one-way delay: 113.914 ms

Loss rate: 0.00%

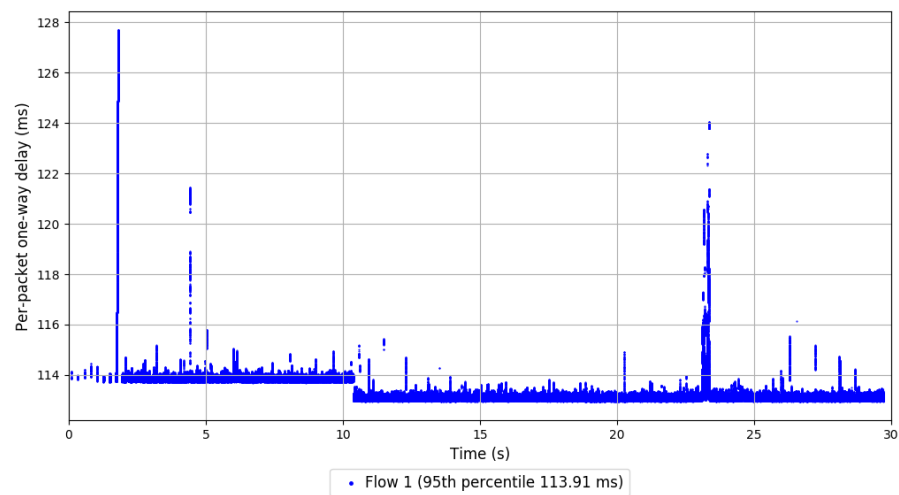
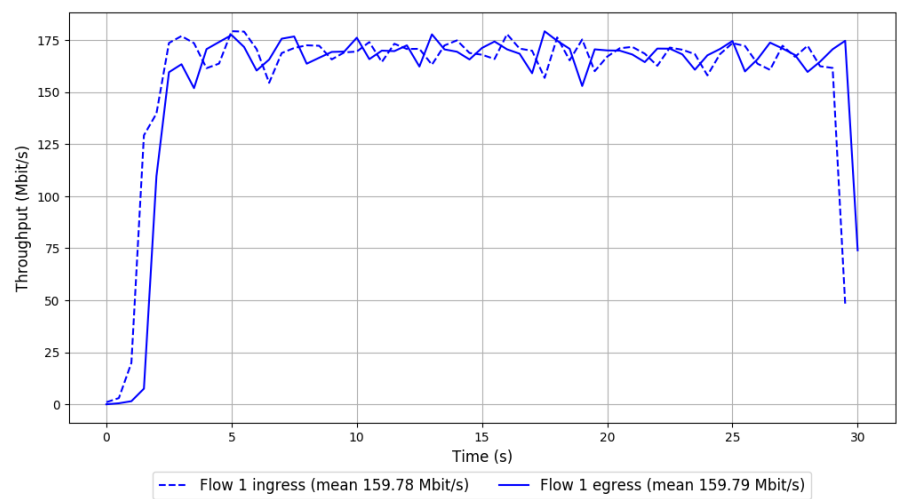
-- Flow 1:

Average throughput: 159.79 Mbit/s

95th percentile per-packet one-way delay: 113.914 ms

Loss rate: 0.00%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2018-08-27 08:59:48

End at: 2018-08-27 09:00:18

Local clock offset: -0.178 ms

Remote clock offset: 0.544 ms

Below is generated by plot.py at 2018-08-27 12:38:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 151.93 Mbit/s

95th percentile per-packet one-way delay: 112.325 ms

Loss rate: 0.00%

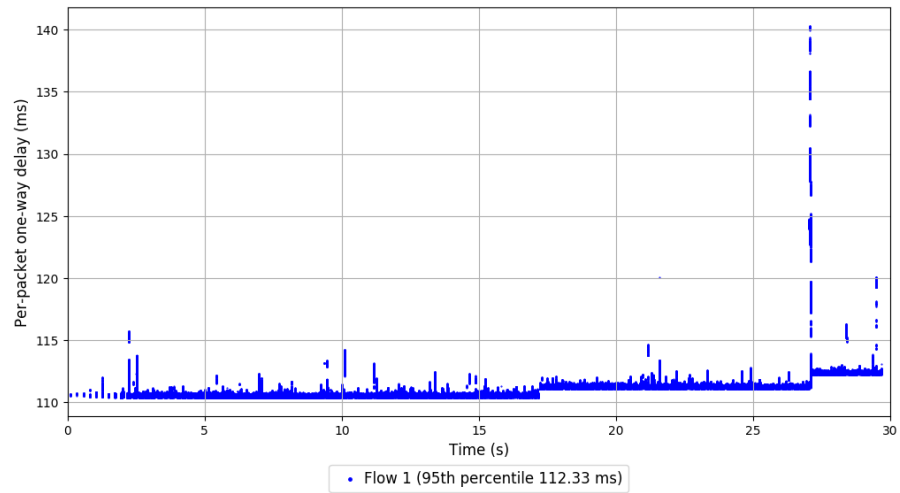
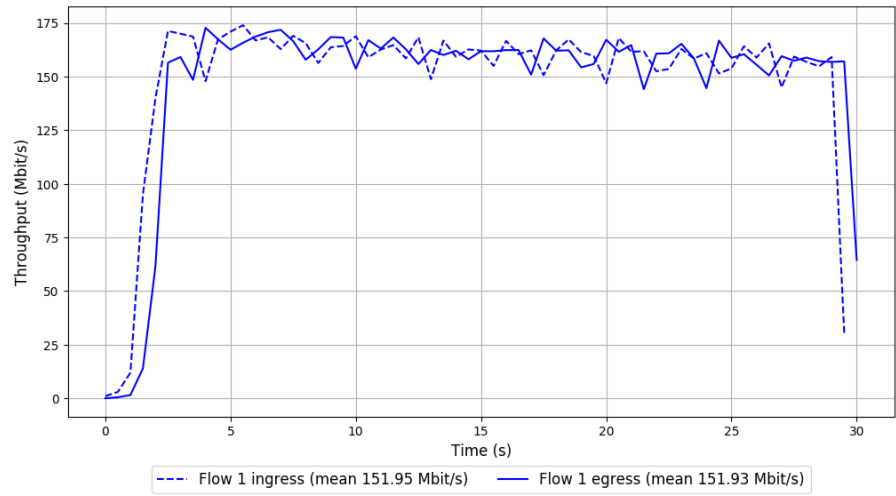
-- Flow 1:

Average throughput: 151.93 Mbit/s

95th percentile per-packet one-way delay: 112.325 ms

Loss rate: 0.00%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2018-08-27 09:24:03

End at: 2018-08-27 09:24:33

Local clock offset: -0.377 ms

Remote clock offset: -0.37 ms

Below is generated by plot.py at 2018-08-27 12:38:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 150.43 Mbit/s

95th percentile per-packet one-way delay: 111.136 ms

Loss rate: 0.00%

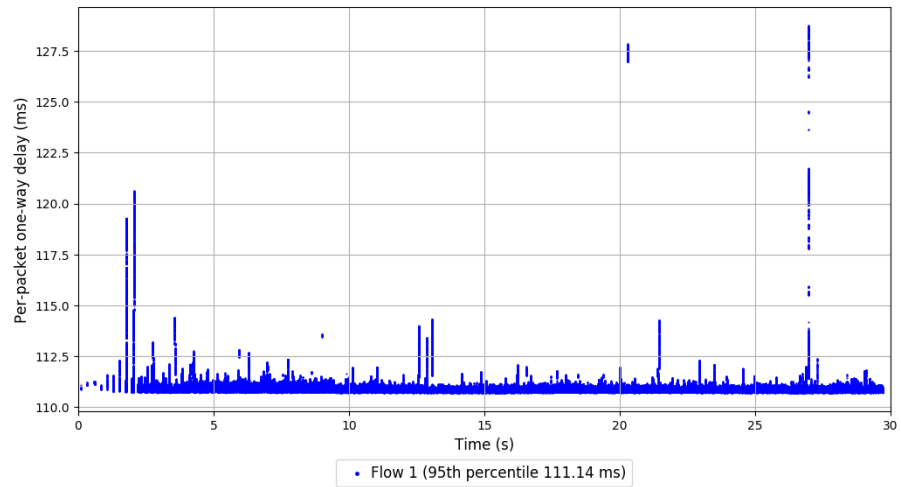
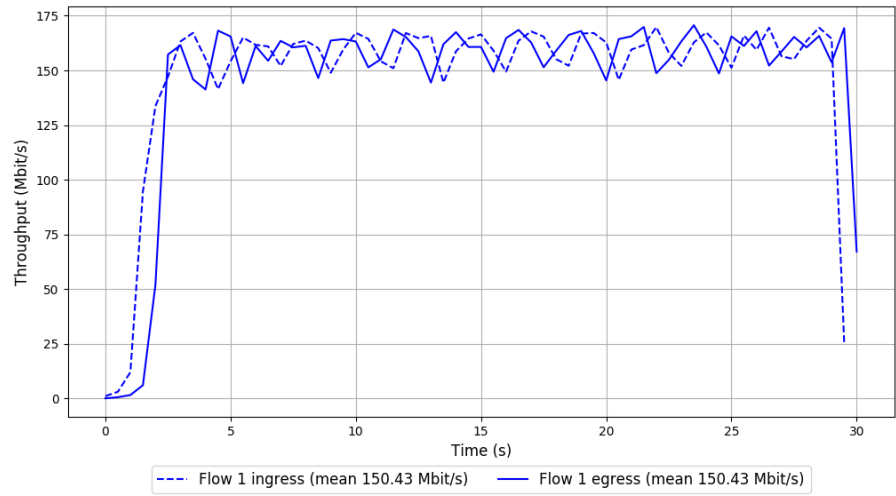
-- Flow 1:

Average throughput: 150.43 Mbit/s

95th percentile per-packet one-way delay: 111.136 ms

Loss rate: 0.00%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2018-08-27 09:48:15

End at: 2018-08-27 09:48:45

Local clock offset: -0.031 ms

Remote clock offset: 0.529 ms

Below is generated by plot.py at 2018-08-27 12:38:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 153.87 Mbit/s

95th percentile per-packet one-way delay: 111.358 ms

Loss rate: 0.00%

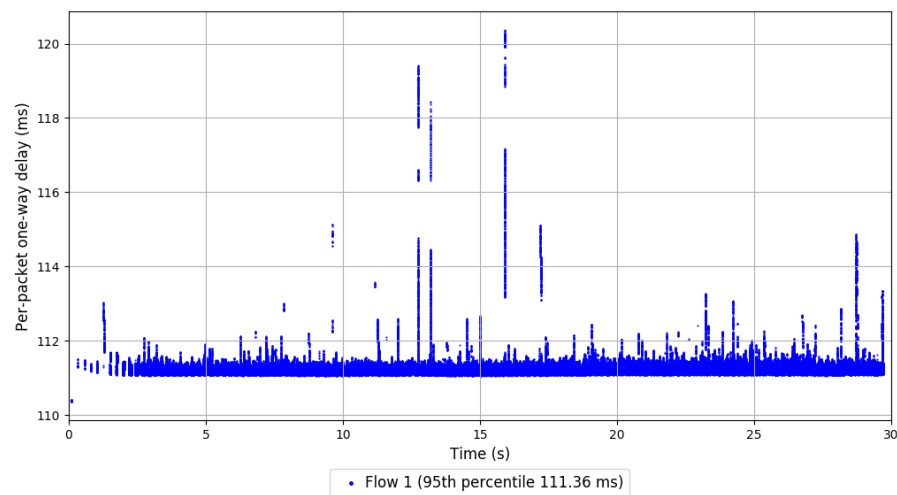
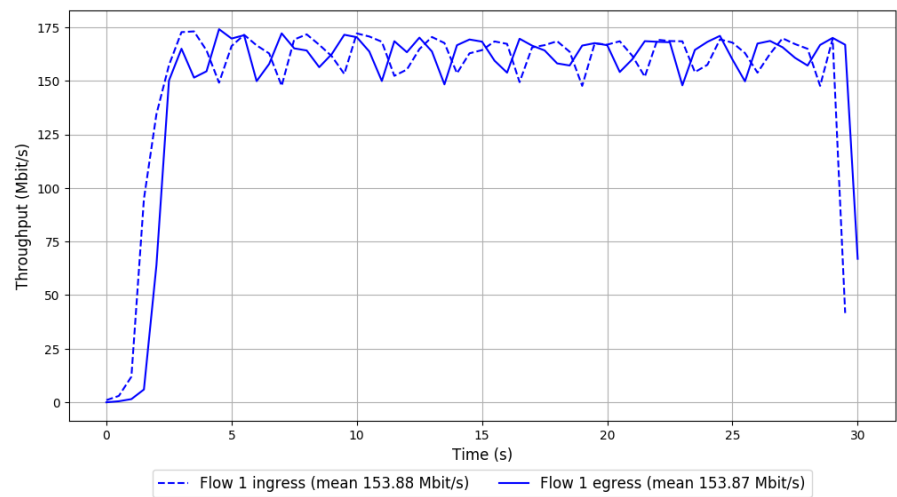
-- Flow 1:

Average throughput: 153.87 Mbit/s

95th percentile per-packet one-way delay: 111.358 ms

Loss rate: 0.00%

Run 8: Report of Indigo — Data Link

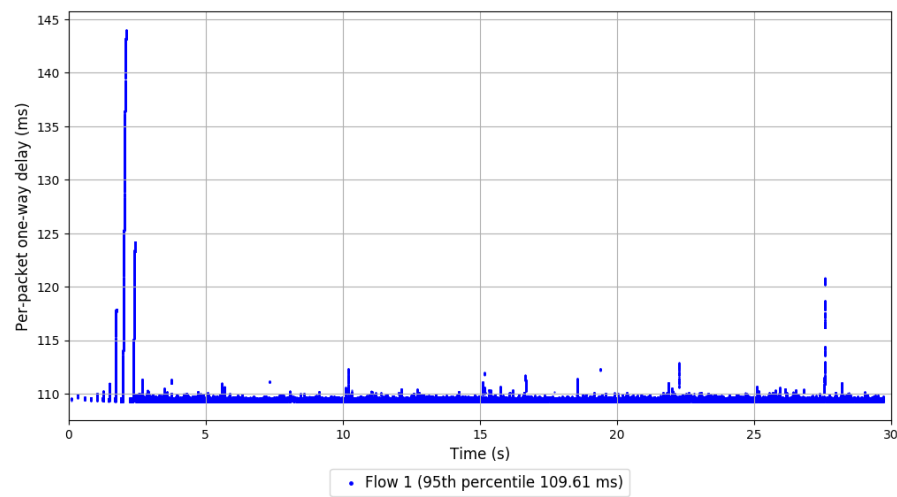
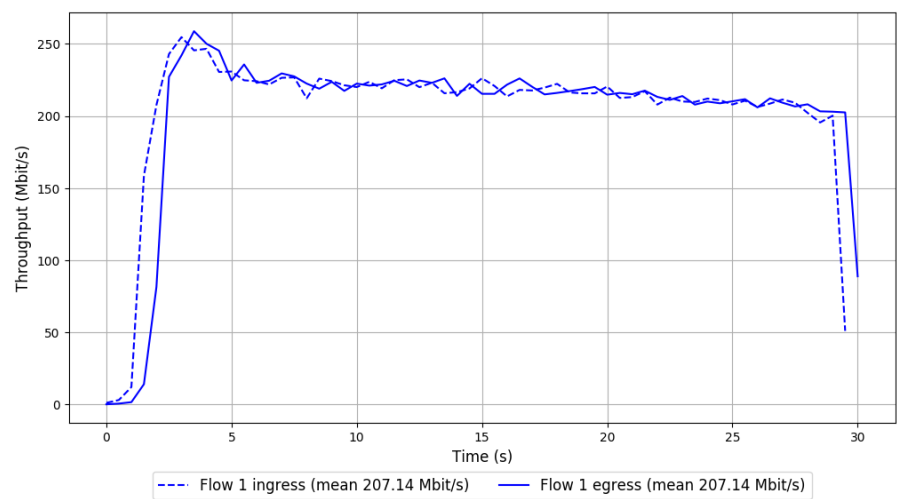


Run 9: Statistics of Indigo

Start at: 2018-08-27 10:12:47
End at: 2018-08-27 10:13:17
Local clock offset: -0.269 ms
Remote clock offset: -0.224 ms

Below is generated by plot.py at 2018-08-27 12:40:17
Datalink statistics
-- Total of 1 flow:
Average throughput: 207.14 Mbit/s
95th percentile per-packet one-way delay: 109.609 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 207.14 Mbit/s
95th percentile per-packet one-way delay: 109.609 ms
Loss rate: 0.00%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-08-27 10:37:02

End at: 2018-08-27 10:37:32

Local clock offset: -0.198 ms

Remote clock offset: -1.124 ms

Below is generated by plot.py at 2018-08-27 12:40:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 155.28 Mbit/s

95th percentile per-packet one-way delay: 110.822 ms

Loss rate: 0.00%

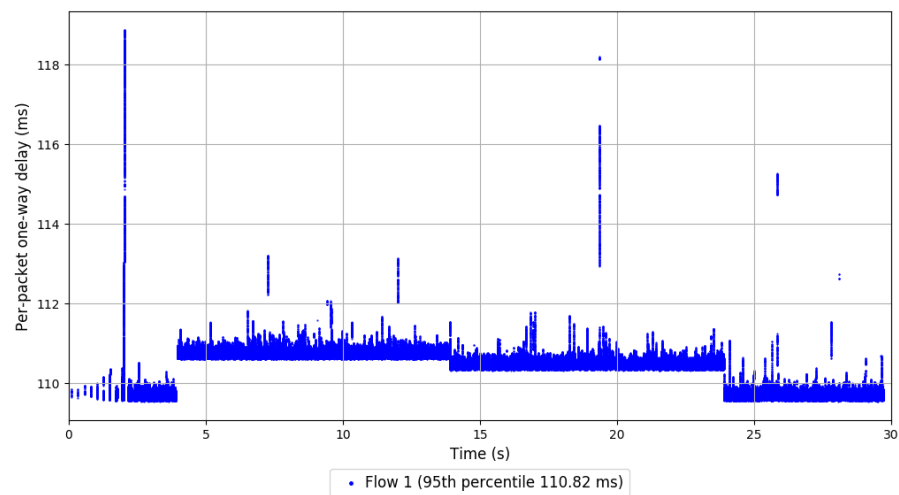
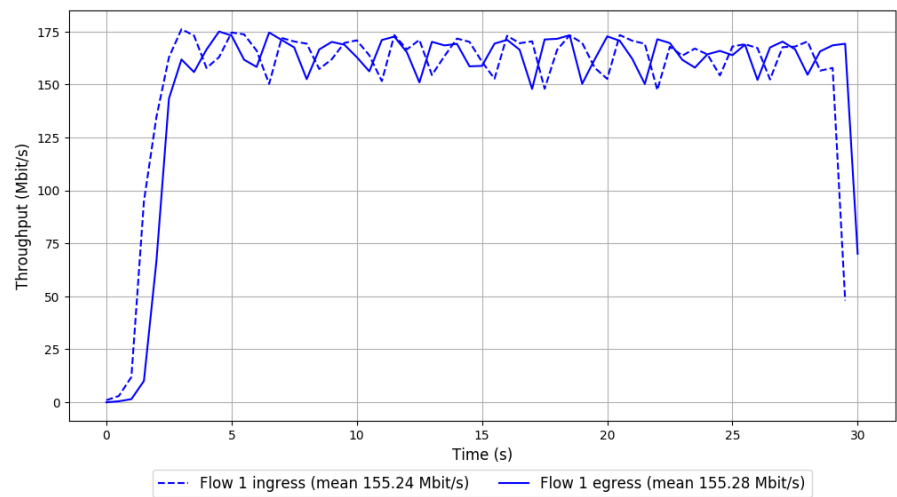
-- Flow 1:

Average throughput: 155.28 Mbit/s

95th percentile per-packet one-way delay: 110.822 ms

Loss rate: 0.00%

Run 10: Report of Indigo — Data Link

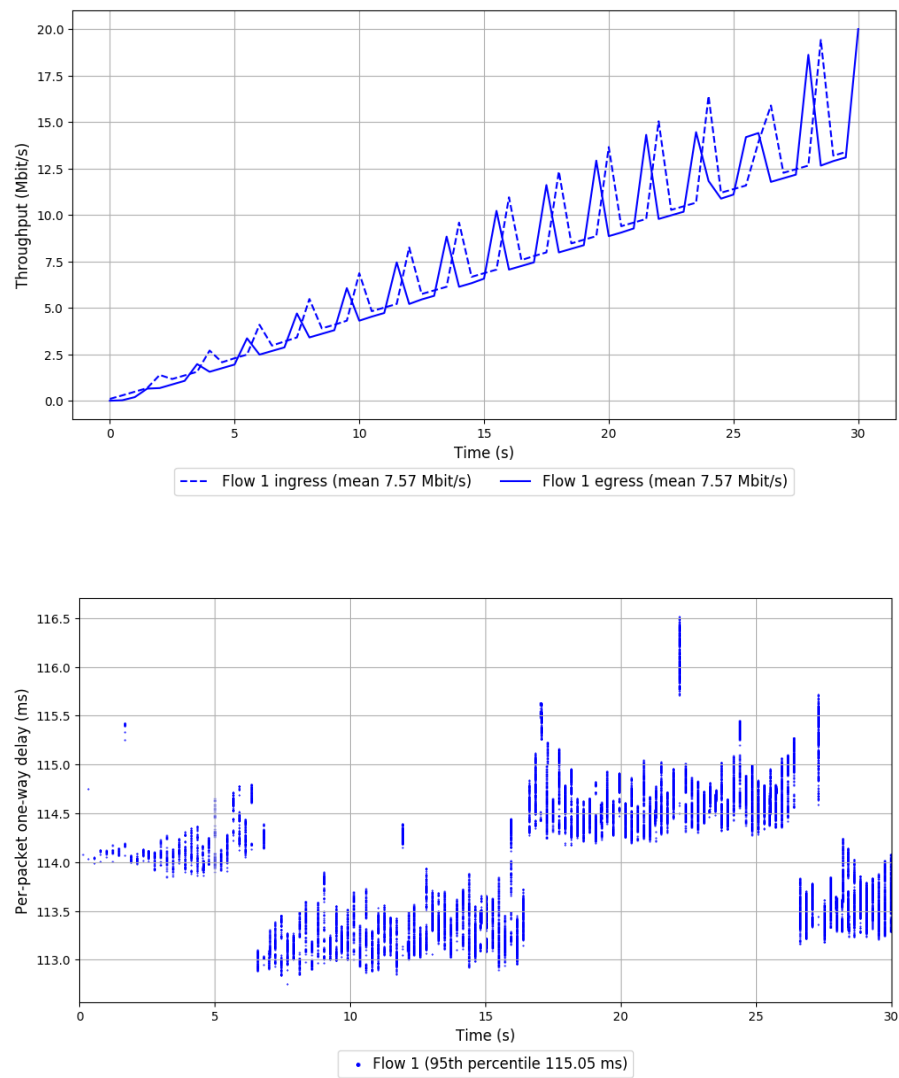


Run 1: Statistics of LEDBAT

Start at: 2018-08-27 07:06:39
End at: 2018-08-27 07:07:09
Local clock offset: -3.038 ms
Remote clock offset: 14.381 ms

Below is generated by plot.py at 2018-08-27 12:40:17
Datalink statistics
-- Total of 1 flow:
Average throughput: 7.57 Mbit/s
95th percentile per-packet one-way delay: 115.053 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.57 Mbit/s
95th percentile per-packet one-way delay: 115.053 ms
Loss rate: 0.00%

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-08-27 07:30:39

End at: 2018-08-27 07:31:09

Local clock offset: -0.127 ms

Remote clock offset: 8.136 ms

Below is generated by plot.py at 2018-08-27 12:40:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.53 Mbit/s

95th percentile per-packet one-way delay: 113.299 ms

Loss rate: 0.00%

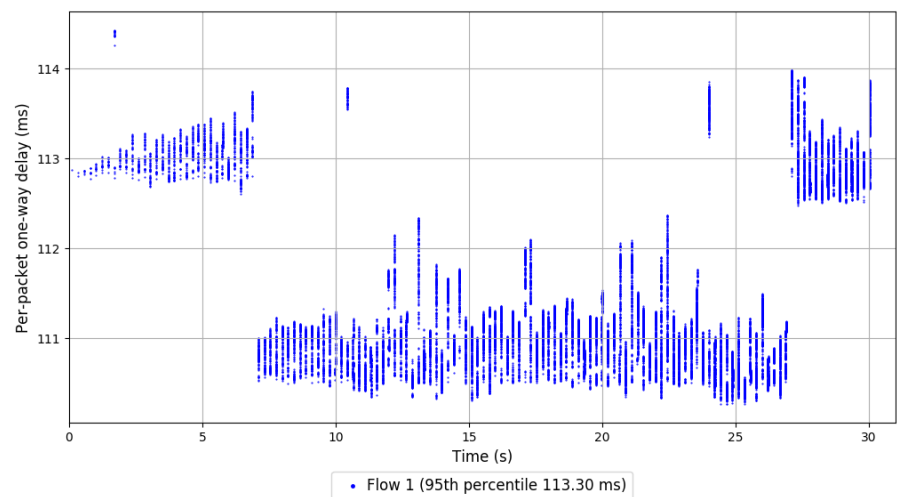
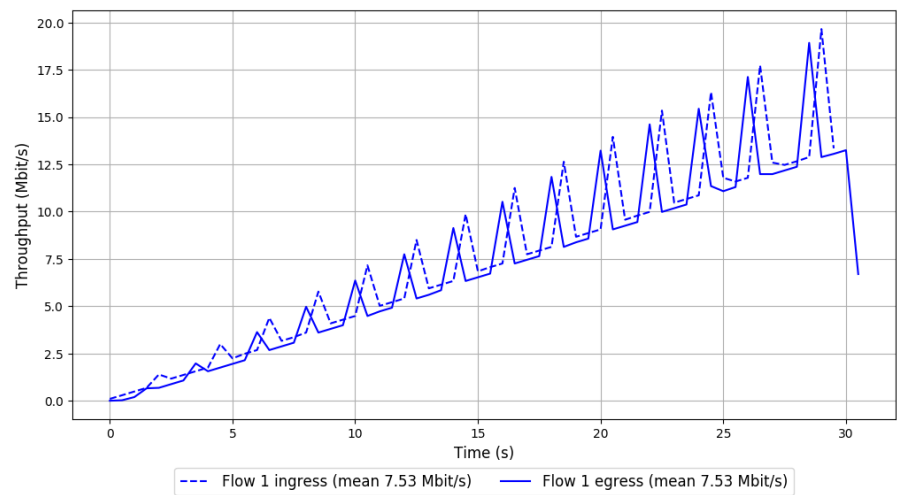
-- Flow 1:

Average throughput: 7.53 Mbit/s

95th percentile per-packet one-way delay: 113.299 ms

Loss rate: 0.00%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-08-27 07:55:06

End at: 2018-08-27 07:55:36

Local clock offset: -2.866 ms

Remote clock offset: 1.837 ms

Below is generated by plot.py at 2018-08-27 12:40:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.55 Mbit/s

95th percentile per-packet one-way delay: 115.593 ms

Loss rate: 0.00%

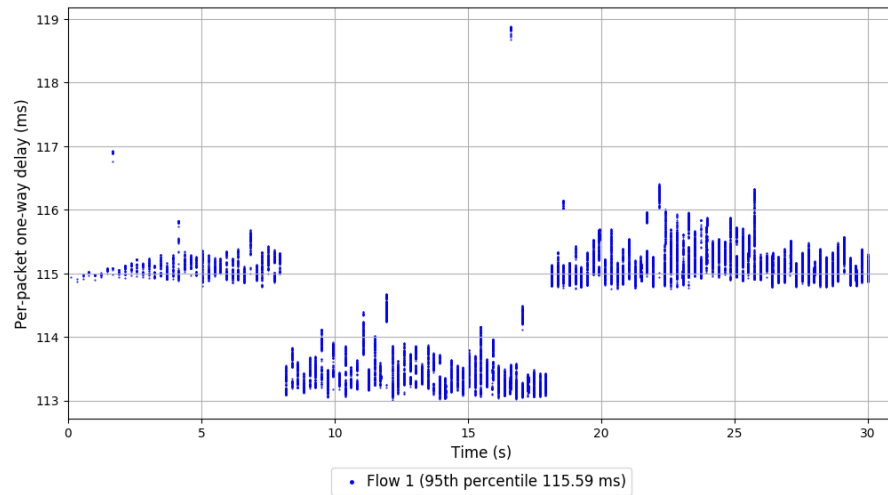
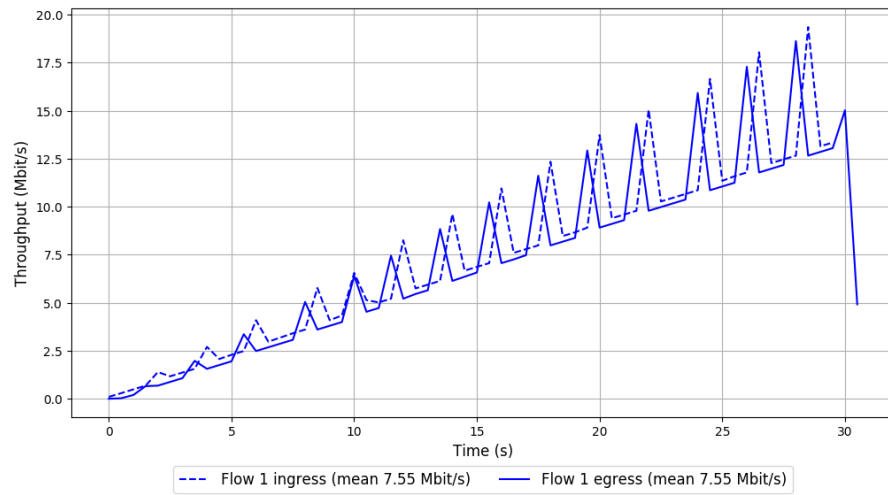
-- Flow 1:

Average throughput: 7.55 Mbit/s

95th percentile per-packet one-way delay: 115.593 ms

Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-08-27 08:19:10

End at: 2018-08-27 08:19:40

Local clock offset: -0.175 ms

Remote clock offset: 1.114 ms

Below is generated by plot.py at 2018-08-27 12:40:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.66 Mbit/s

95th percentile per-packet one-way delay: 111.804 ms

Loss rate: 0.00%

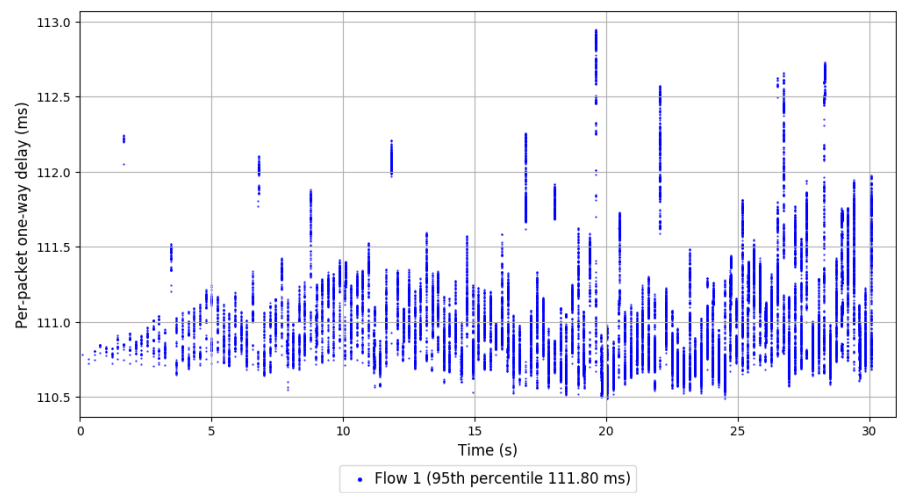
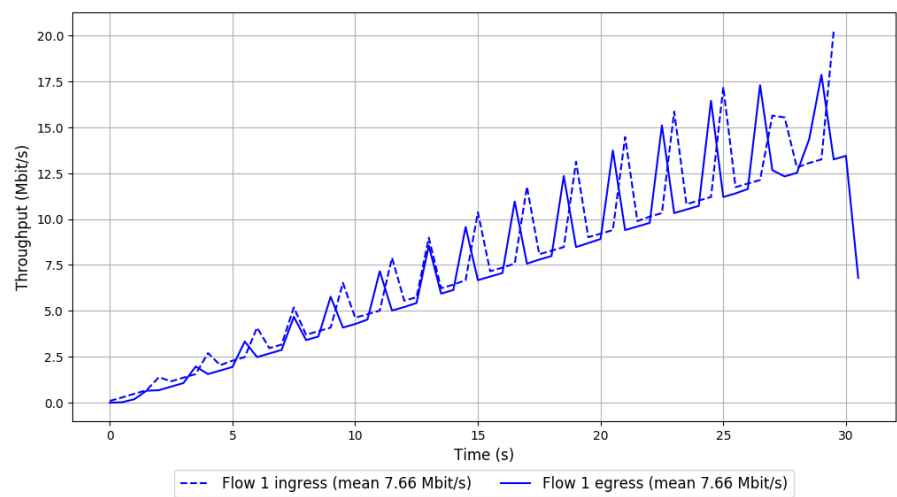
-- Flow 1:

Average throughput: 7.66 Mbit/s

95th percentile per-packet one-way delay: 111.804 ms

Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-08-27 08:43:54

End at: 2018-08-27 08:44:24

Local clock offset: -3.011 ms

Remote clock offset: 0.108 ms

Below is generated by plot.py at 2018-08-27 12:40:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.38 Mbit/s

95th percentile per-packet one-way delay: 116.480 ms

Loss rate: 0.00%

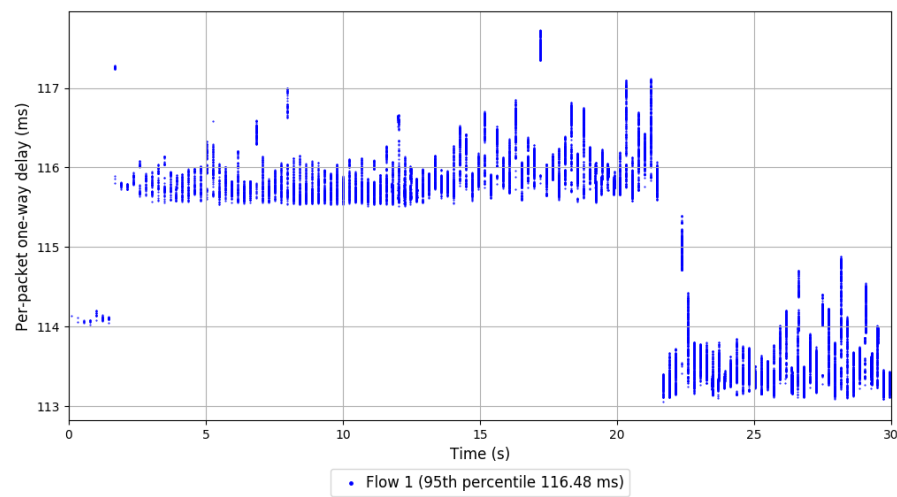
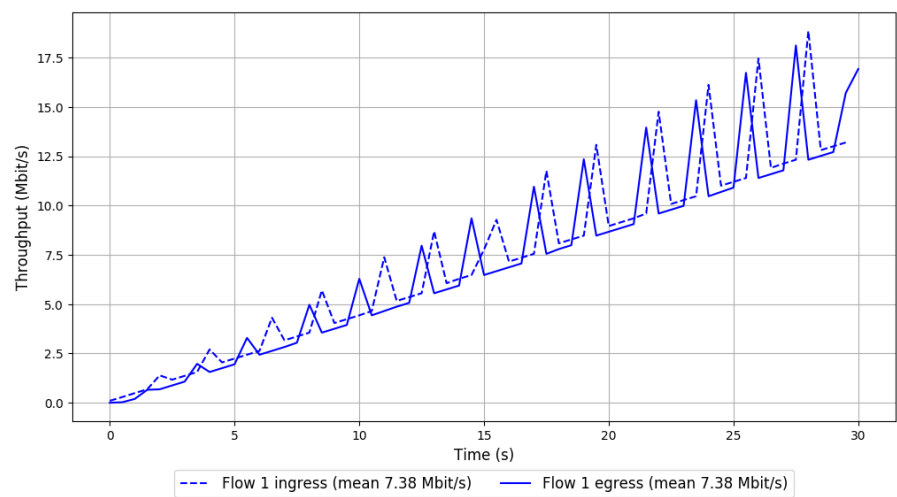
-- Flow 1:

Average throughput: 7.38 Mbit/s

95th percentile per-packet one-way delay: 116.480 ms

Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-08-27 09:07:57

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

Local clock offset: -3.035 ms

Remote clock offset: 0.213 ms

Below is generated by plot.py at 2018-08-27 12:40:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.65 Mbit/s

95th percentile per-packet one-way delay: 115.488 ms

Loss rate: 0.00%

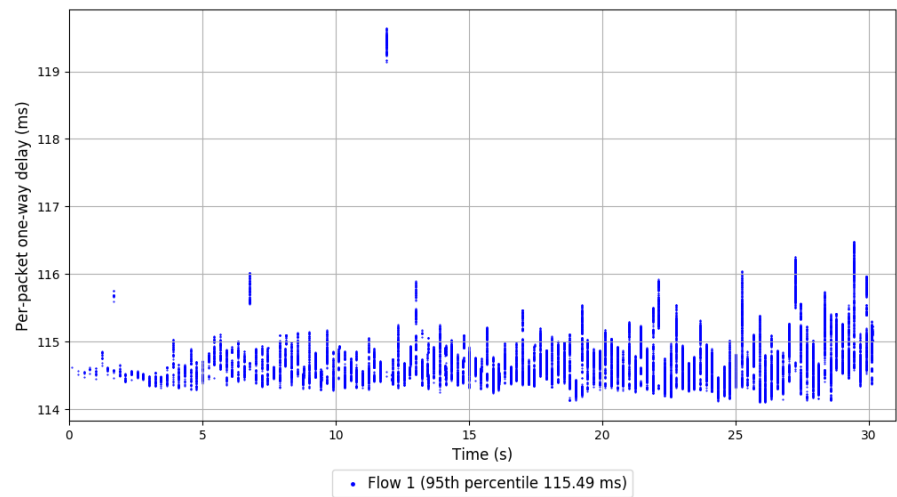
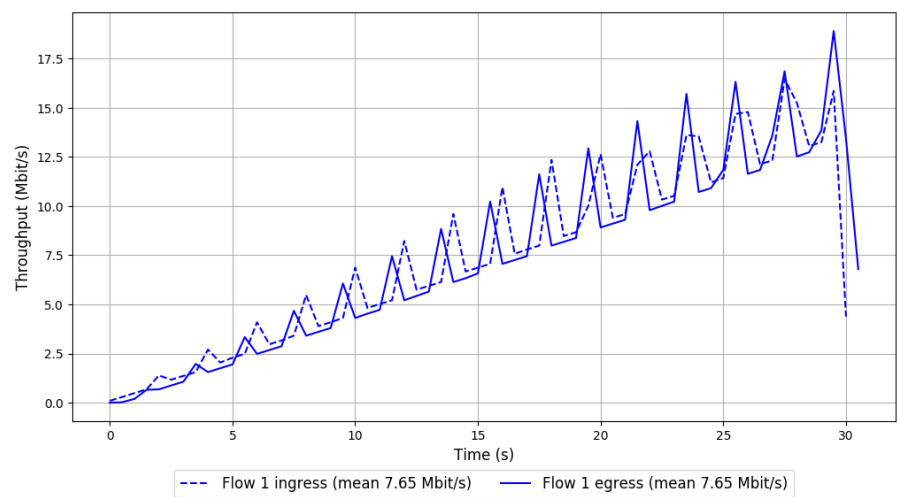
-- Flow 1:

Average throughput: 7.65 Mbit/s

95th percentile per-packet one-way delay: 115.488 ms

Loss rate: 0.00%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-08-27 09:32:04

End at: 2018-08-27 09:32:34

Local clock offset: -2.931 ms

Remote clock offset: 0.128 ms

Below is generated by plot.py at 2018-08-27 12:40:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.55 Mbit/s

95th percentile per-packet one-way delay: 114.809 ms

Loss rate: 0.00%

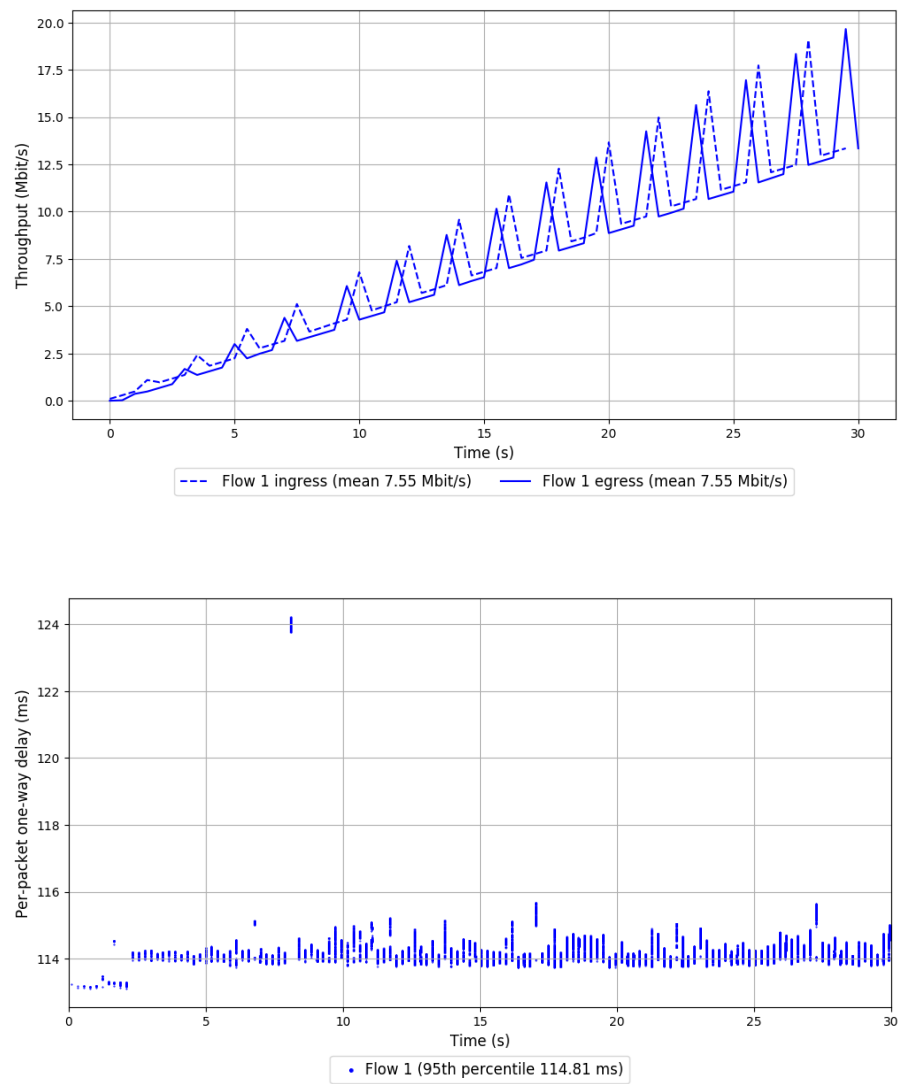
-- Flow 1:

Average throughput: 7.55 Mbit/s

95th percentile per-packet one-way delay: 114.809 ms

Loss rate: 0.00%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-08-27 09:56:26

End at: 2018-08-27 09:56:56

Local clock offset: 2.882 ms

Remote clock offset: 0.291 ms

Below is generated by plot.py at 2018-08-27 12:40:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.56 Mbit/s

95th percentile per-packet one-way delay: 108.800 ms

Loss rate: 0.00%

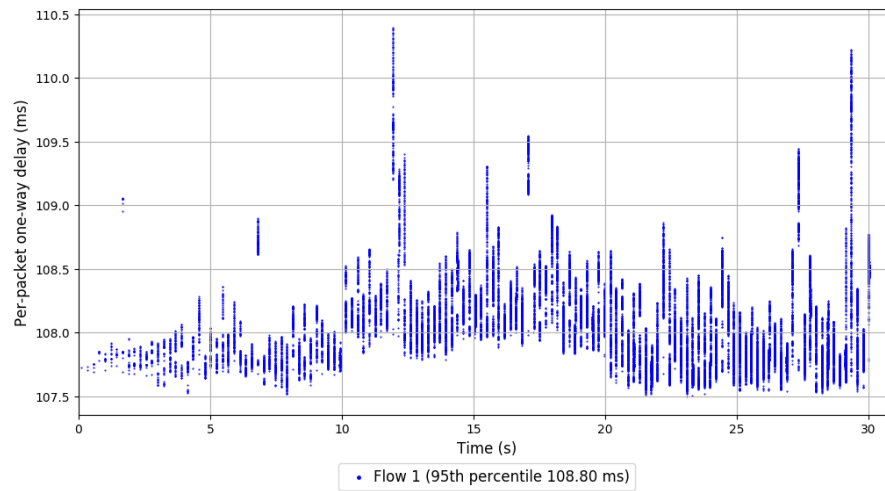
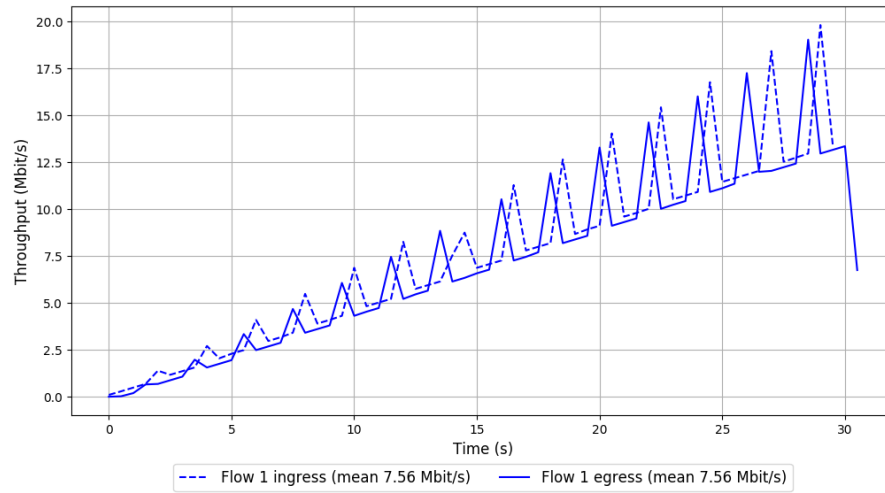
-- Flow 1:

Average throughput: 7.56 Mbit/s

95th percentile per-packet one-way delay: 108.800 ms

Loss rate: 0.00%

Run 8: Report of LEDBAT — Data Link

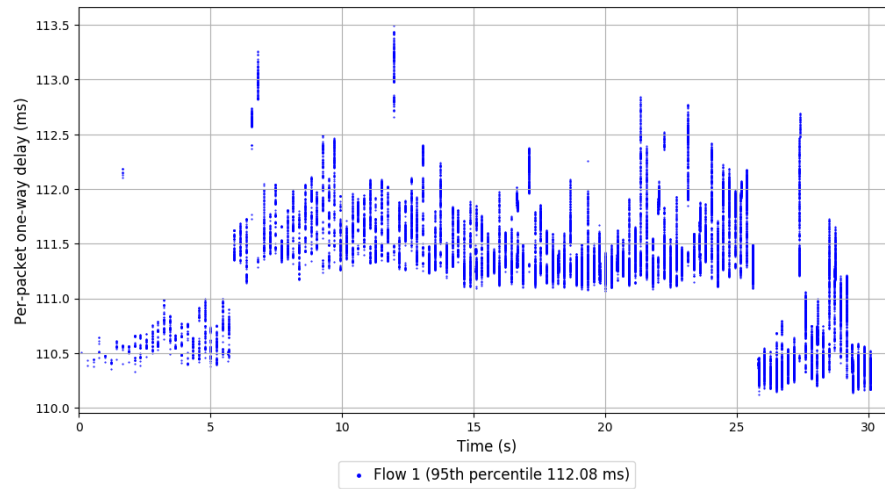
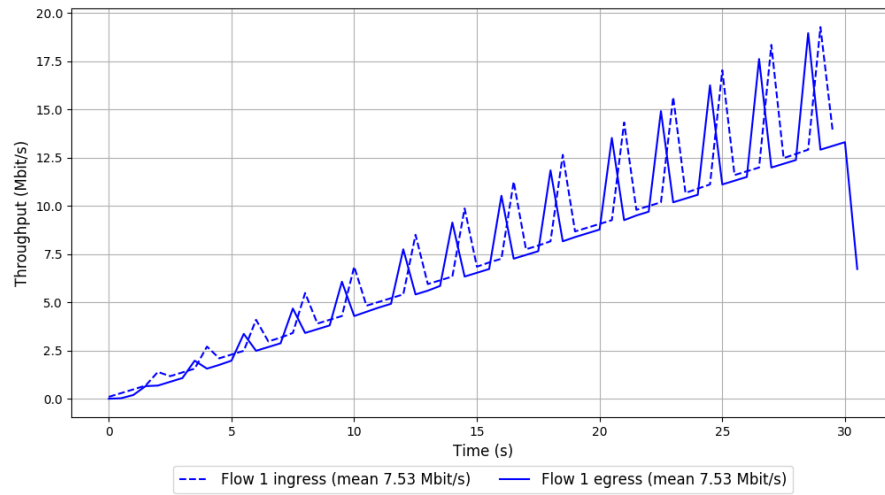


Run 9: Statistics of LEDBAT

Start at: 2018-08-27 10:21:00
End at: 2018-08-27 10:21:30
Local clock offset: -0.334 ms
Remote clock offset: -0.595 ms

Below is generated by plot.py at 2018-08-27 12:40:17
Datalink statistics
-- Total of 1 flow:
Average throughput: 7.53 Mbit/s
95th percentile per-packet one-way delay: 112.085 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.53 Mbit/s
95th percentile per-packet one-way delay: 112.085 ms
Loss rate: 0.00%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-08-27 10:44:54

End at: 2018-08-27 10:45:24

Local clock offset: -2.881 ms

Remote clock offset: -1.46 ms

Below is generated by plot.py at 2018-08-27 12:40:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.56 Mbit/s

95th percentile per-packet one-way delay: 114.048 ms

Loss rate: 0.00%

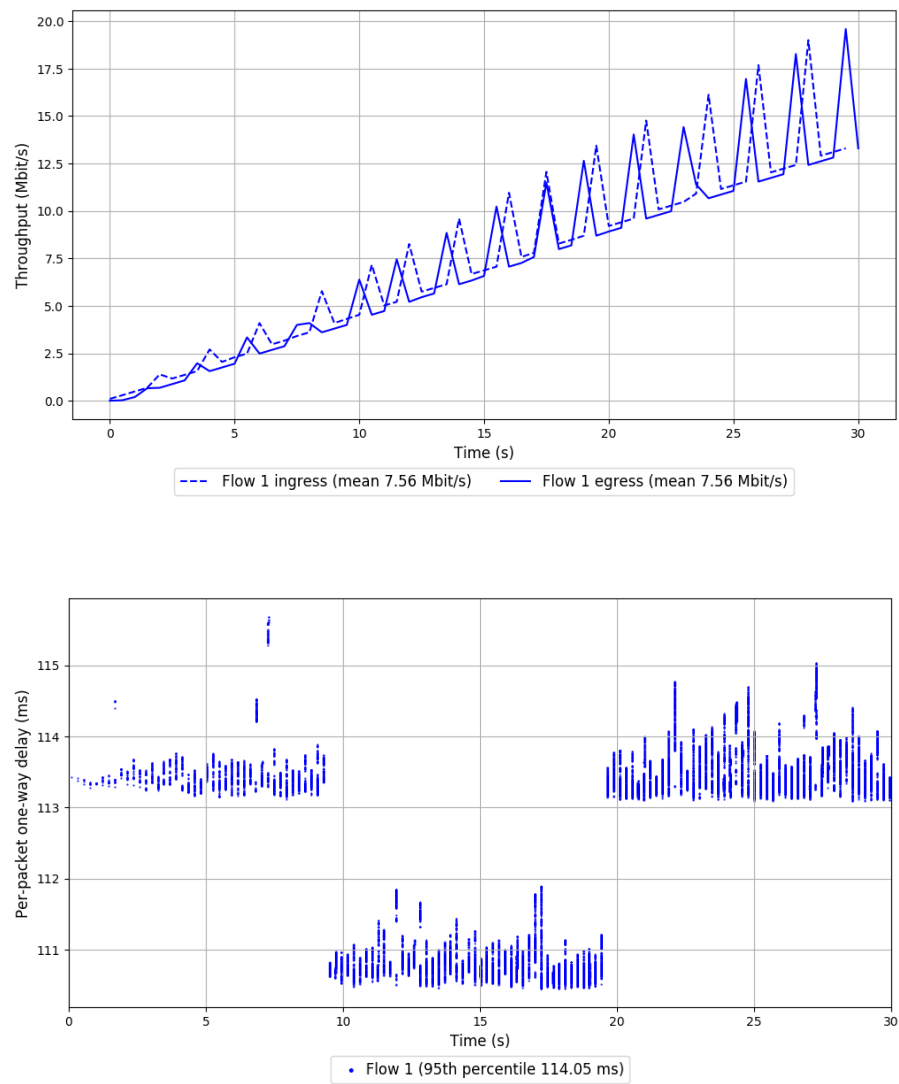
-- Flow 1:

Average throughput: 7.56 Mbit/s

95th percentile per-packet one-way delay: 114.048 ms

Loss rate: 0.00%

Run 10: Report of LEDBAT — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2018-08-27 07:07:48

End at: 2018-08-27 07:08:18

Local clock offset: -0.069 ms

Remote clock offset: 12.568 ms

Below is generated by plot.py at 2018-08-27 12:53:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 477.29 Mbit/s

95th percentile per-packet one-way delay: 206.097 ms

Loss rate: 0.71%

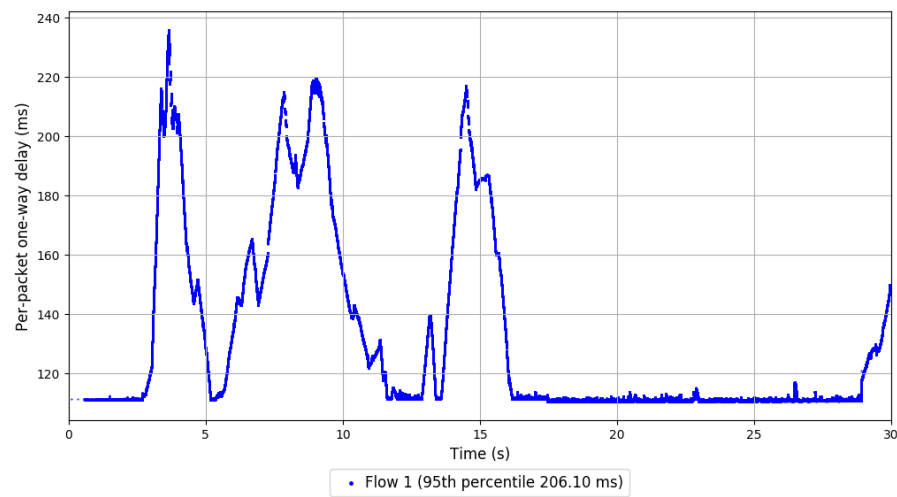
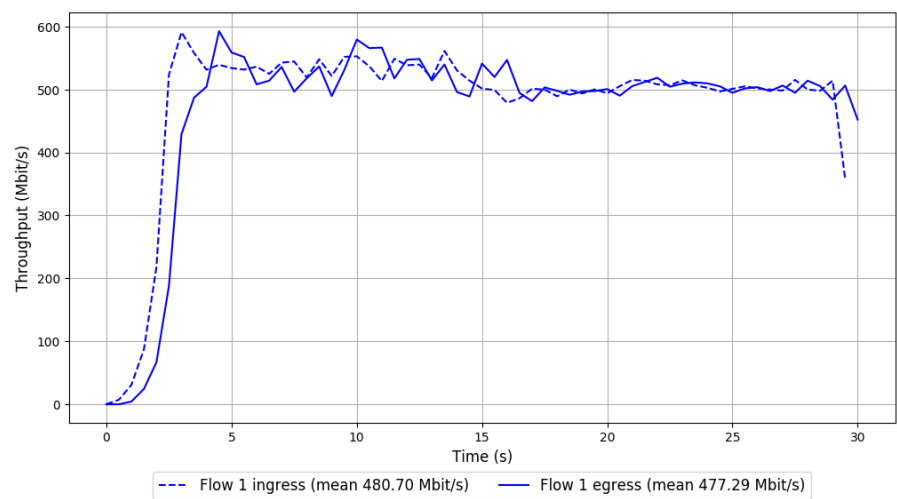
-- Flow 1:

Average throughput: 477.29 Mbit/s

95th percentile per-packet one-way delay: 206.097 ms

Loss rate: 0.71%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-08-27 07:31:48

End at: 2018-08-27 07:32:18

Local clock offset: -2.949 ms

Remote clock offset: 7.893 ms

Below is generated by plot.py at 2018-08-27 12:53:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 457.35 Mbit/s

95th percentile per-packet one-way delay: 227.459 ms

Loss rate: 5.33%

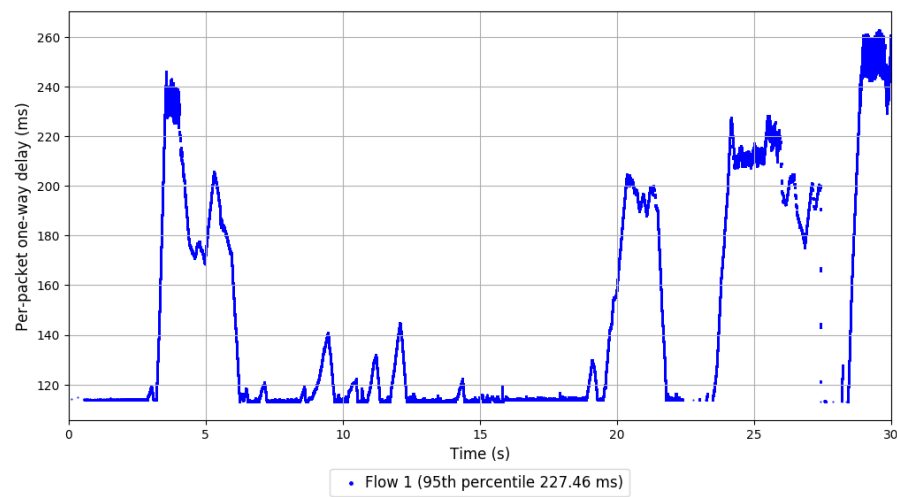
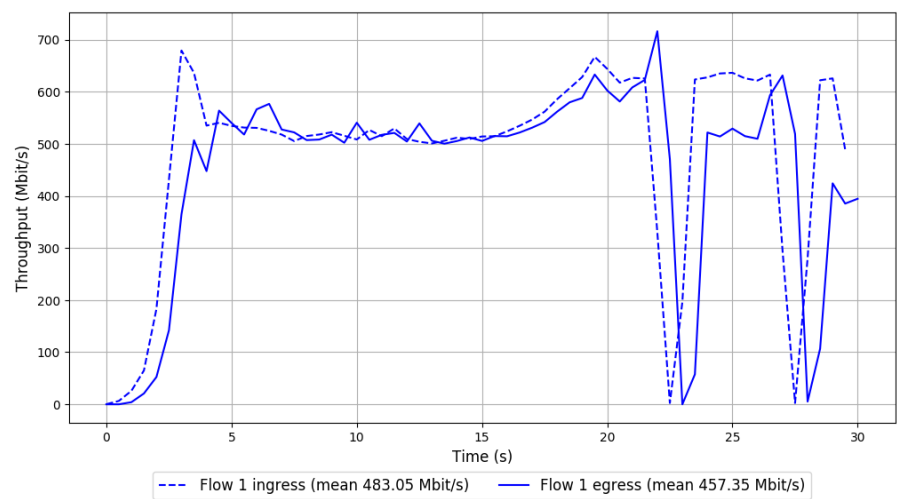
-- Flow 1:

Average throughput: 457.35 Mbit/s

95th percentile per-packet one-way delay: 227.459 ms

Loss rate: 5.33%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-08-27 07:56:15

End at: 2018-08-27 07:56:45

Local clock offset: -2.888 ms

Remote clock offset: 1.813 ms

Below is generated by plot.py at 2018-08-27 12:53:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 481.10 Mbit/s

95th percentile per-packet one-way delay: 188.778 ms

Loss rate: 0.59%

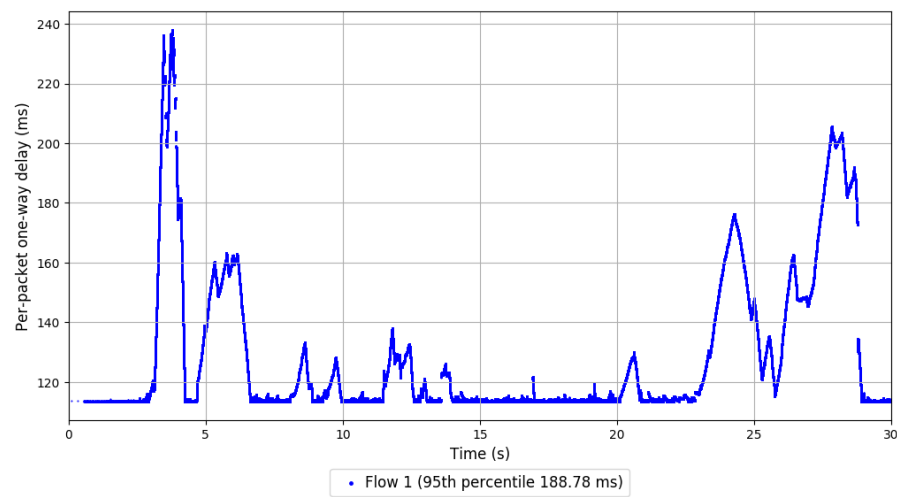
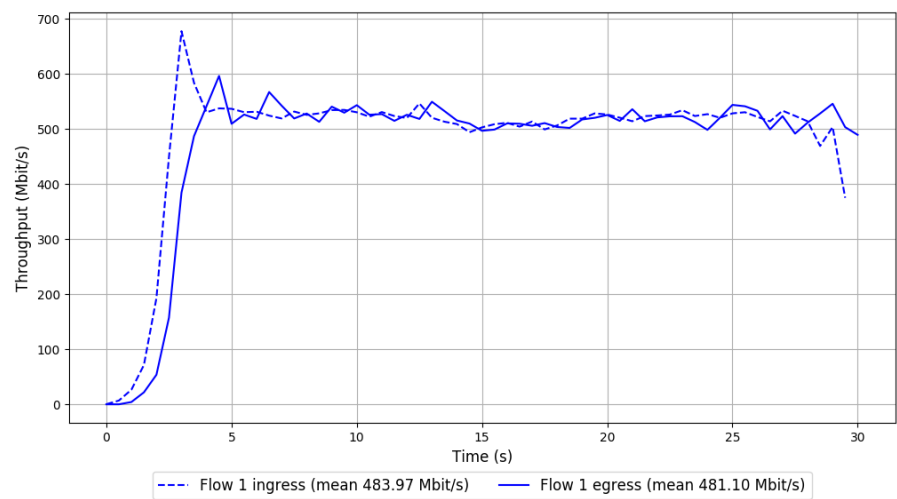
-- Flow 1:

Average throughput: 481.10 Mbit/s

95th percentile per-packet one-way delay: 188.778 ms

Loss rate: 0.59%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-08-27 08:20:19

End at: 2018-08-27 08:20:49

Local clock offset: 2.803 ms

Remote clock offset: 1.33 ms

Below is generated by plot.py at 2018-08-27 12:53:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 429.02 Mbit/s

95th percentile per-packet one-way delay: 232.441 ms

Loss rate: 3.66%

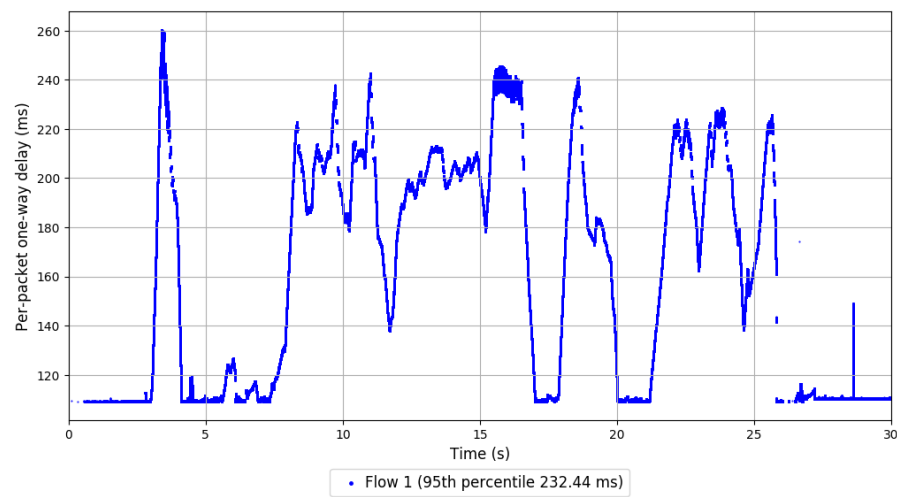
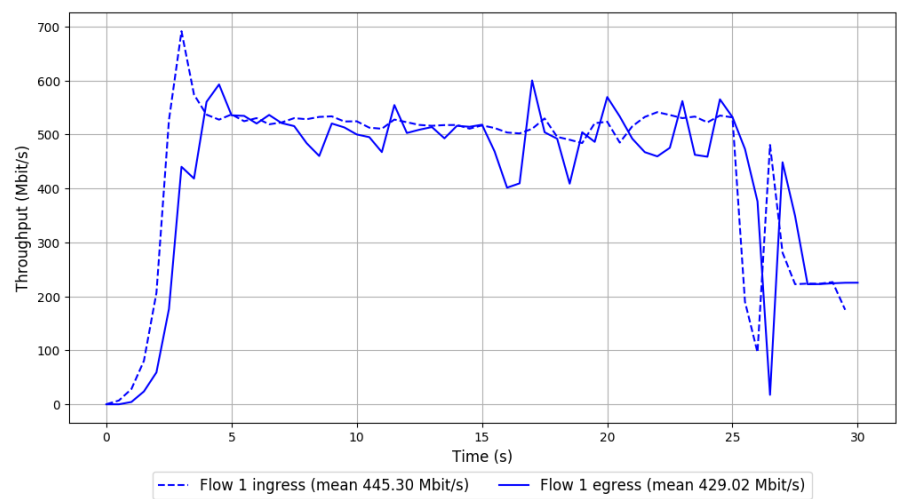
-- Flow 1:

Average throughput: 429.02 Mbit/s

95th percentile per-packet one-way delay: 232.441 ms

Loss rate: 3.66%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-08-27 08:45:03

End at: 2018-08-27 08:45:33

Local clock offset: -2.859 ms

Remote clock offset: 0.701 ms

Below is generated by plot.py at 2018-08-27 12:53:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 441.86 Mbit/s

95th percentile per-packet one-way delay: 228.281 ms

Loss rate: 2.83%

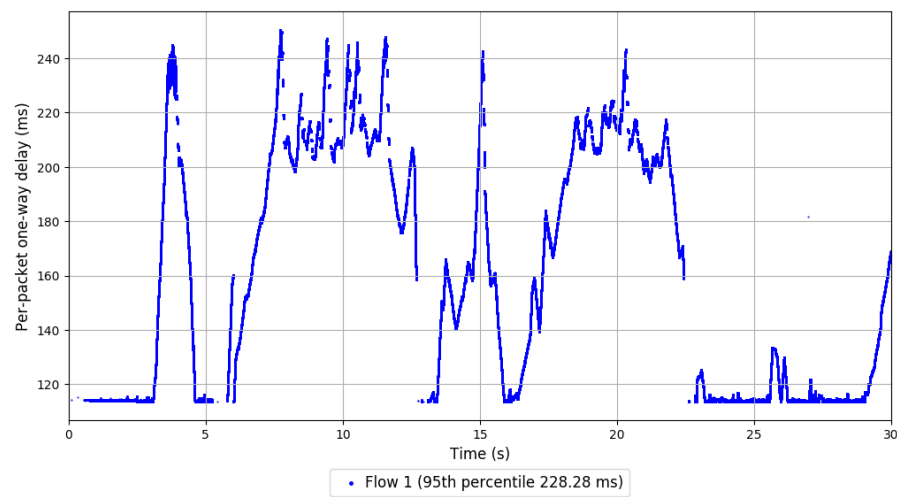
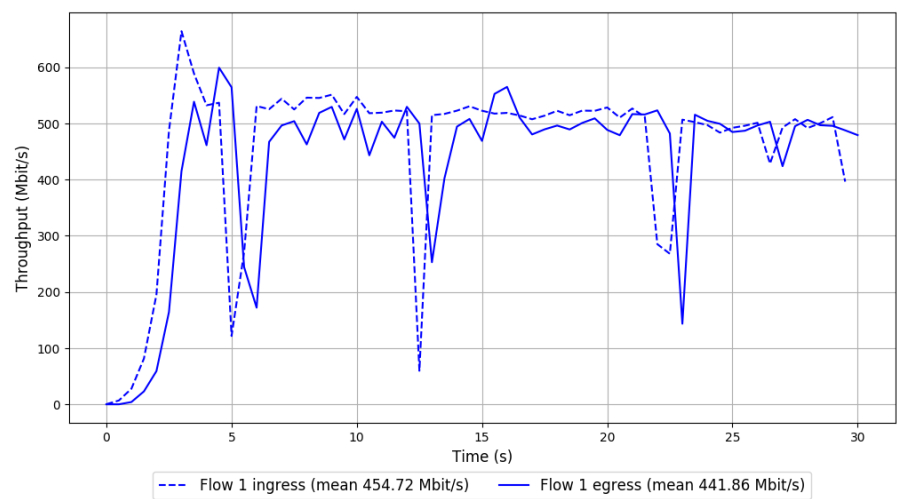
-- Flow 1:

Average throughput: 441.86 Mbit/s

95th percentile per-packet one-way delay: 228.281 ms

Loss rate: 2.83%

Run 5: Report of PCC-Allegro — Data Link



Run 6: Statistics of PCC-Allegro

Start at: 2018-08-27 09:09:06

End at: 2018-08-27 09:09:36

Local clock offset: -0.216 ms

Remote clock offset: 0.225 ms

Below is generated by plot.py at 2018-08-27 12:54:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 457.50 Mbit/s

95th percentile per-packet one-way delay: 213.788 ms

Loss rate: 1.88%

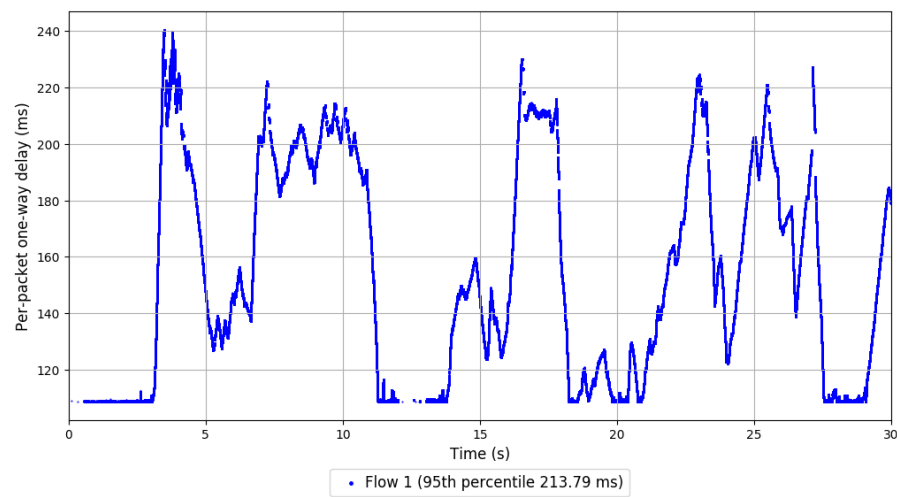
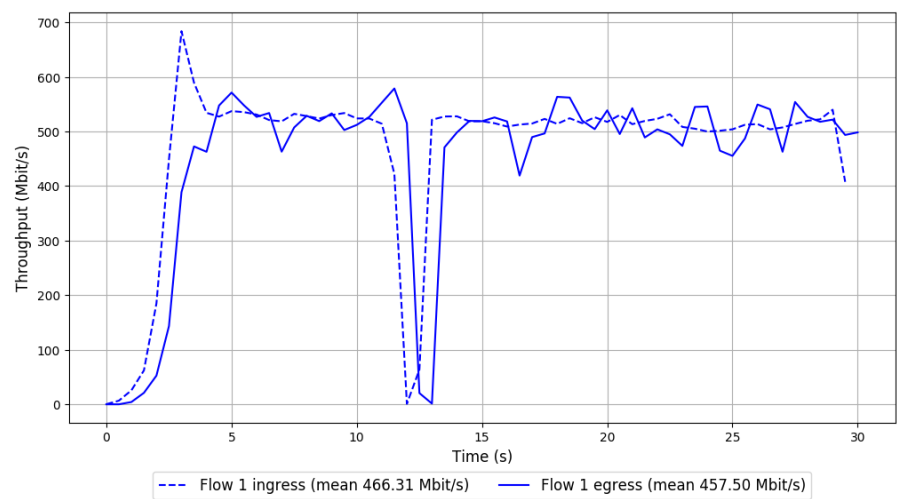
-- Flow 1:

Average throughput: 457.50 Mbit/s

95th percentile per-packet one-way delay: 213.788 ms

Loss rate: 1.88%

Run 6: Report of PCC-Allegro — Data Link



Run 7: Statistics of PCC-Allegro

Start at: 2018-08-27 09:33:13

End at: 2018-08-27 09:33:43

Local clock offset: 0.032 ms

Remote clock offset: 0.469 ms

Below is generated by plot.py at 2018-08-27 12:55:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 474.34 Mbit/s

95th percentile per-packet one-way delay: 213.398 ms

Loss rate: 1.32%

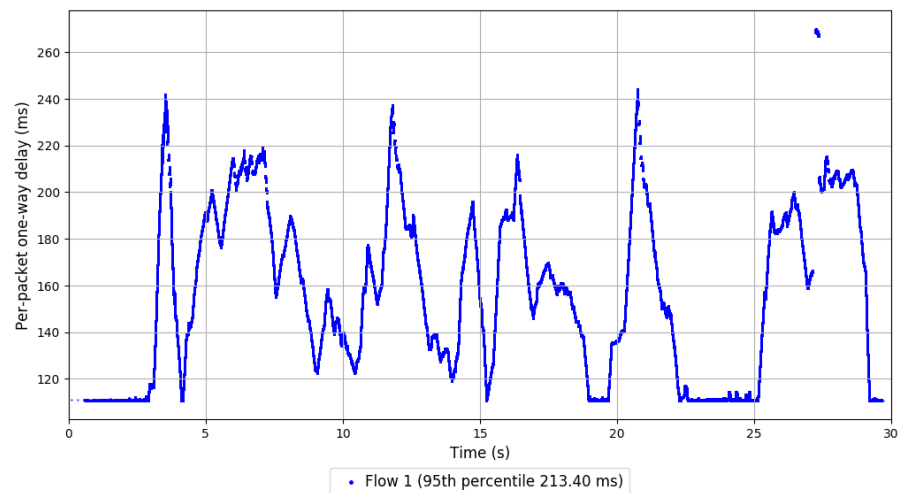
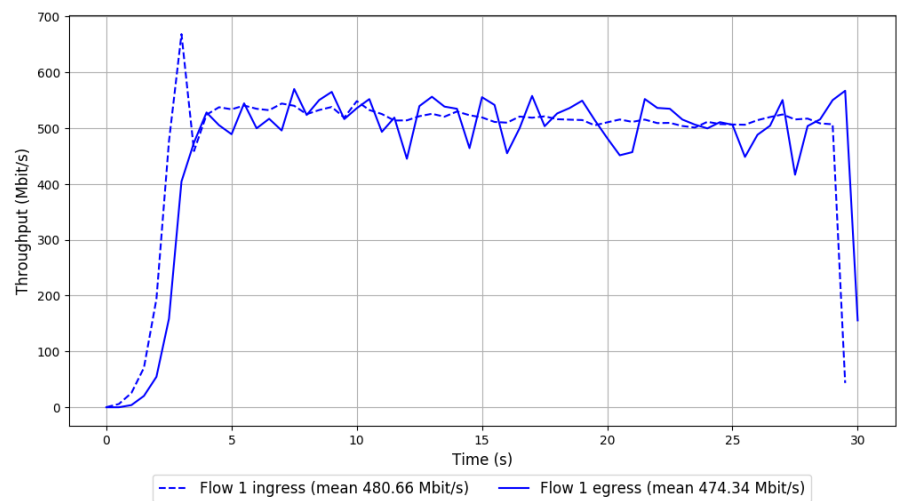
-- Flow 1:

Average throughput: 474.34 Mbit/s

95th percentile per-packet one-way delay: 213.398 ms

Loss rate: 1.32%

Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-08-27 09:57:35

End at: 2018-08-27 09:58:05

Local clock offset: -2.932 ms

Remote clock offset: -0.54 ms

Below is generated by plot.py at 2018-08-27 12:55:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 391.09 Mbit/s

95th percentile per-packet one-way delay: 214.926 ms

Loss rate: 1.53%

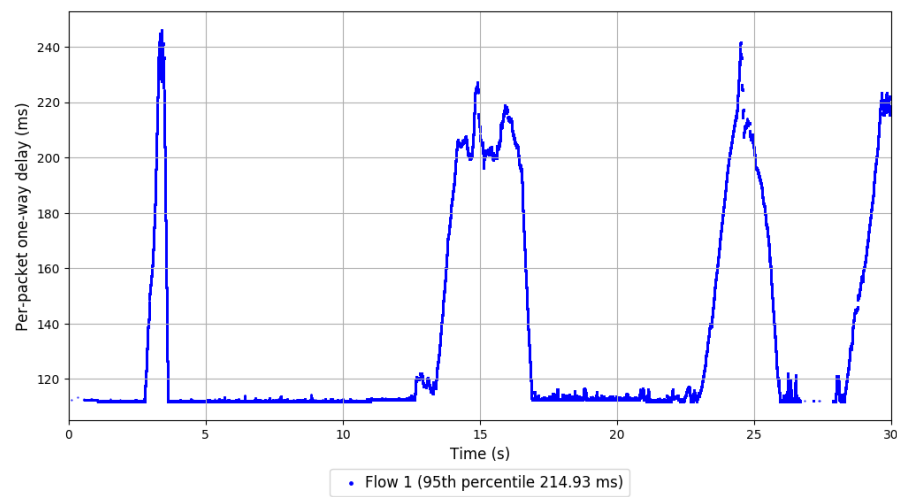
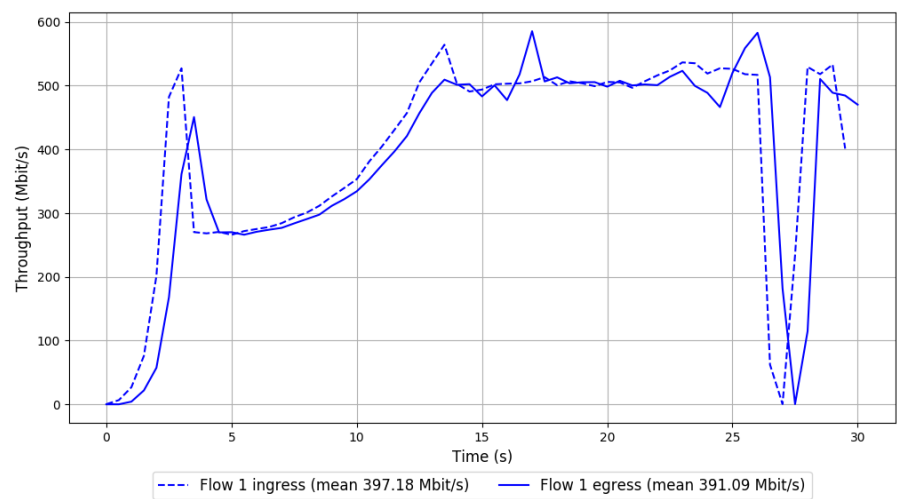
-- Flow 1:

Average throughput: 391.09 Mbit/s

95th percentile per-packet one-way delay: 214.926 ms

Loss rate: 1.53%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-08-27 10:22:09

End at: 2018-08-27 10:22:39

Local clock offset: 2.658 ms

Remote clock offset: 0.026 ms

Below is generated by plot.py at 2018-08-27 12:56:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 173.62 Mbit/s

95th percentile per-packet one-way delay: 118.283 ms

Loss rate: 0.00%

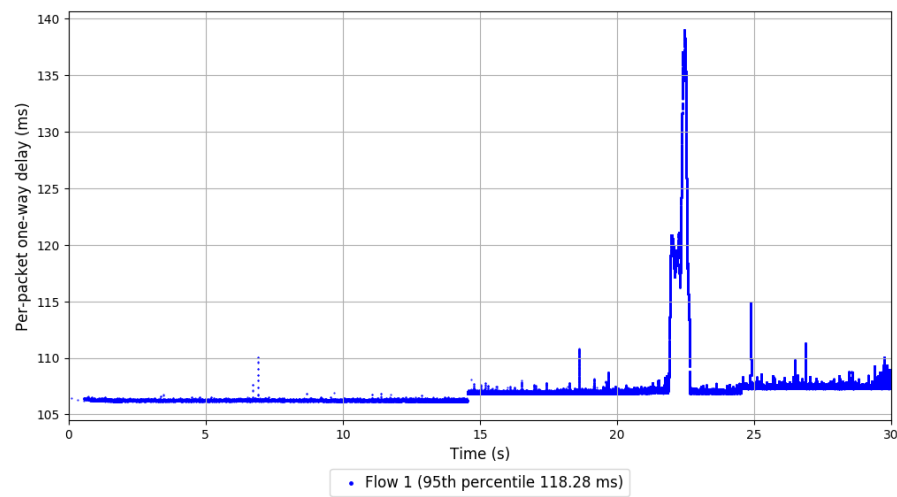
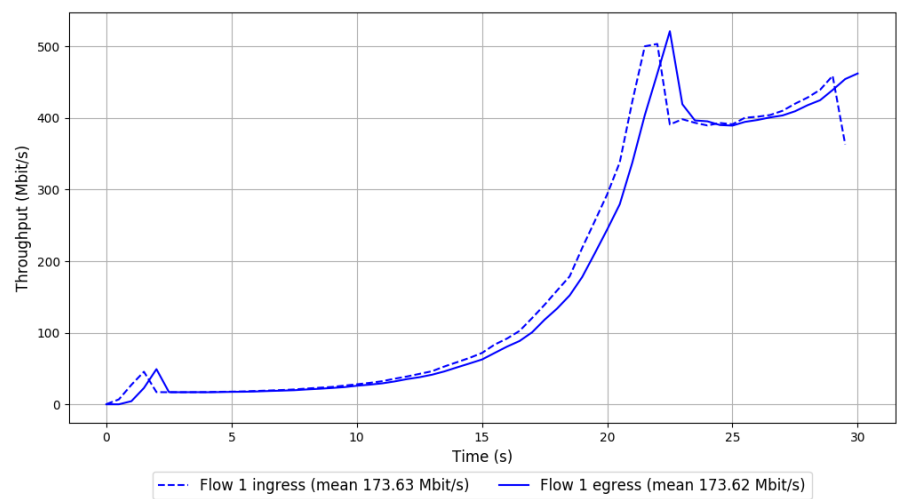
-- Flow 1:

Average throughput: 173.62 Mbit/s

95th percentile per-packet one-way delay: 118.283 ms

Loss rate: 0.00%

Run 9: Report of PCC-Allegro — Data Link

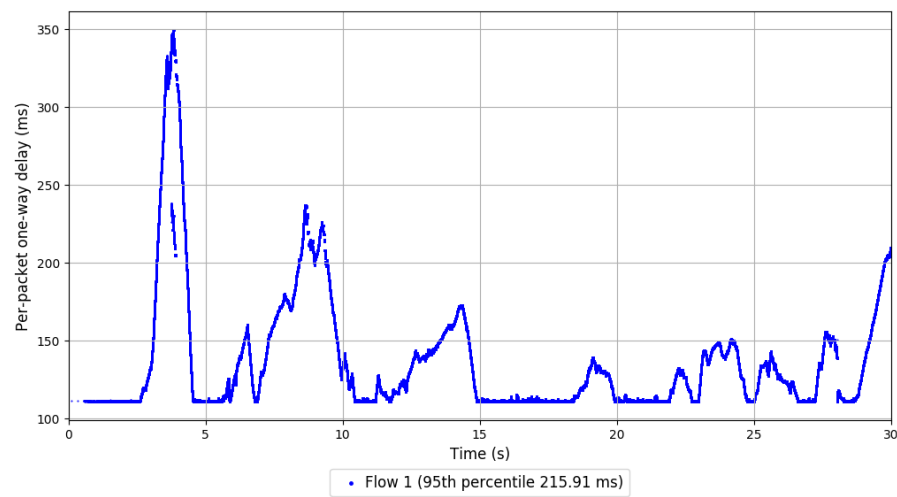
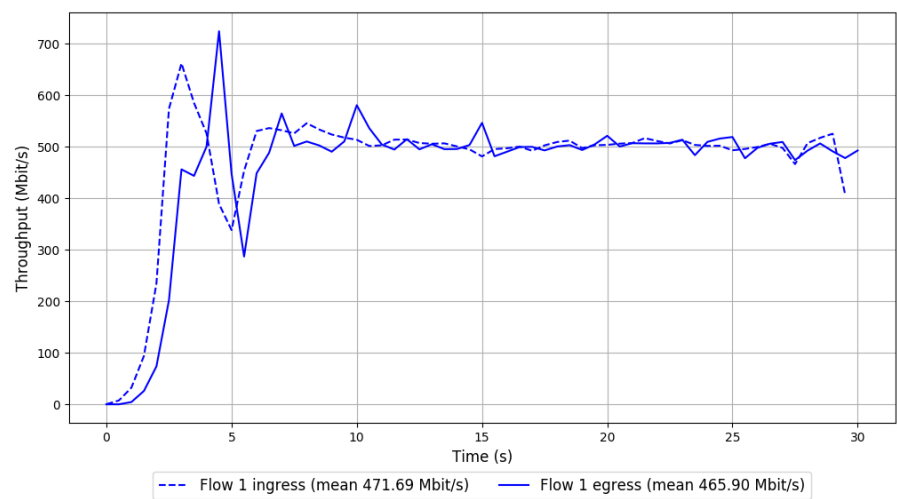


Run 10: Statistics of PCC-Allegro

Start at: 2018-08-27 10:46:03
End at: 2018-08-27 10:46:33
Local clock offset: -0.094 ms
Remote clock offset: -0.037 ms

Below is generated by plot.py at 2018-08-27 13:08:38
Datalink statistics
-- Total of 1 flow:
Average throughput: 465.90 Mbit/s
95th percentile per-packet one-way delay: 215.914 ms
Loss rate: 1.22%
-- Flow 1:
Average throughput: 465.90 Mbit/s
95th percentile per-packet one-way delay: 215.914 ms
Loss rate: 1.22%

Run 10: Report of PCC-Allegro — Data Link

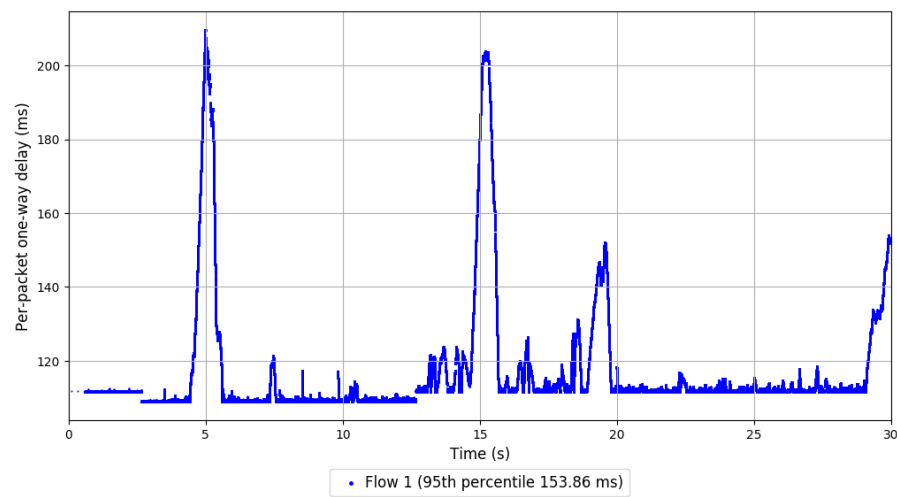
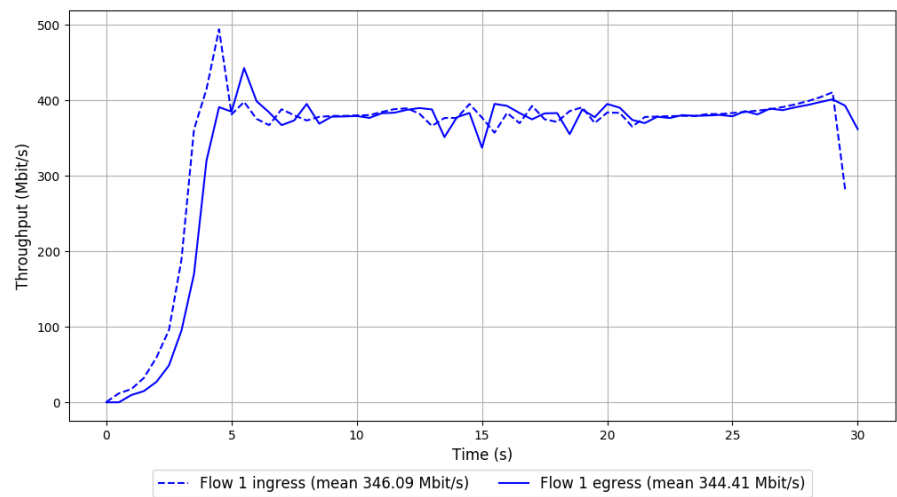


```
Run 1: Statistics of PCC-Expr

Start at: 2018-08-27 07:20:43
End at: 2018-08-27 07:21:13
Local clock offset: -0.121 ms
Remote clock offset: 7.413 ms

# Below is generated by plot.py at 2018-08-27 13:08:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 344.41 Mbit/s
95th percentile per-packet one-way delay: 153.863 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 344.41 Mbit/s
95th percentile per-packet one-way delay: 153.863 ms
Loss rate: 0.48%
```

Run 1: Report of PCC-Expr — Data Link



Run 2: Statistics of PCC-Expr

Start at: 2018-08-27 07:45:17

End at: 2018-08-27 07:45:47

Local clock offset: -0.123 ms

Remote clock offset: 4.419 ms

Below is generated by plot.py at 2018-08-27 13:08:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 342.27 Mbit/s

95th percentile per-packet one-way delay: 197.645 ms

Loss rate: 0.78%

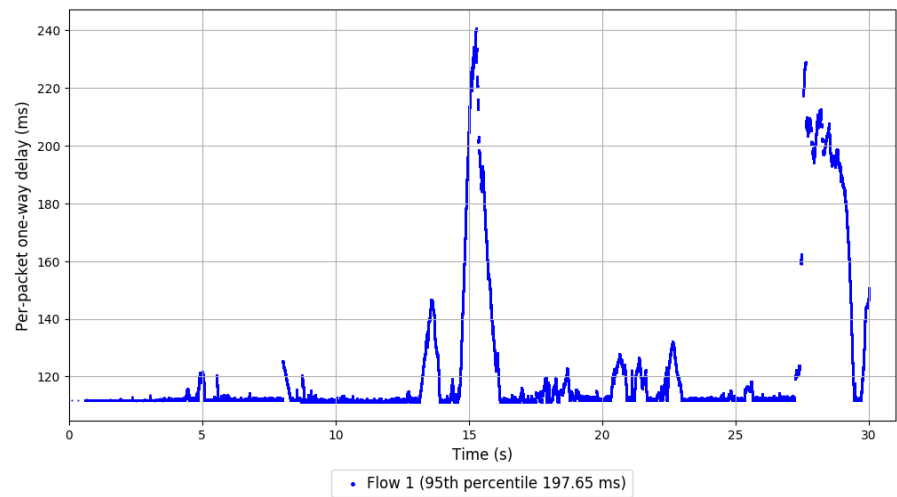
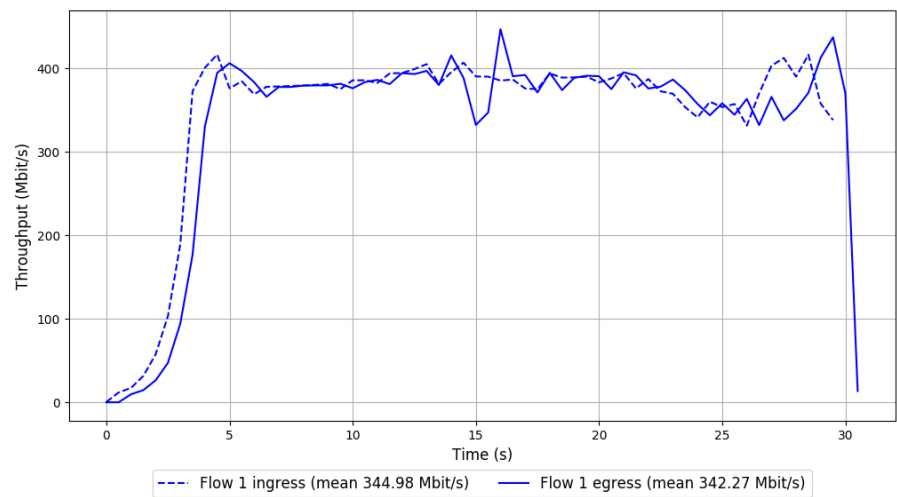
-- Flow 1:

Average throughput: 342.27 Mbit/s

95th percentile per-packet one-way delay: 197.645 ms

Loss rate: 0.78%

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2018-08-27 08:09:30

End at: 2018-08-27 08:10:00

Local clock offset: -2.825 ms

Remote clock offset: 2.331 ms

Below is generated by plot.py at 2018-08-27 13:08:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 329.65 Mbit/s

95th percentile per-packet one-way delay: 166.343 ms

Loss rate: 0.02%

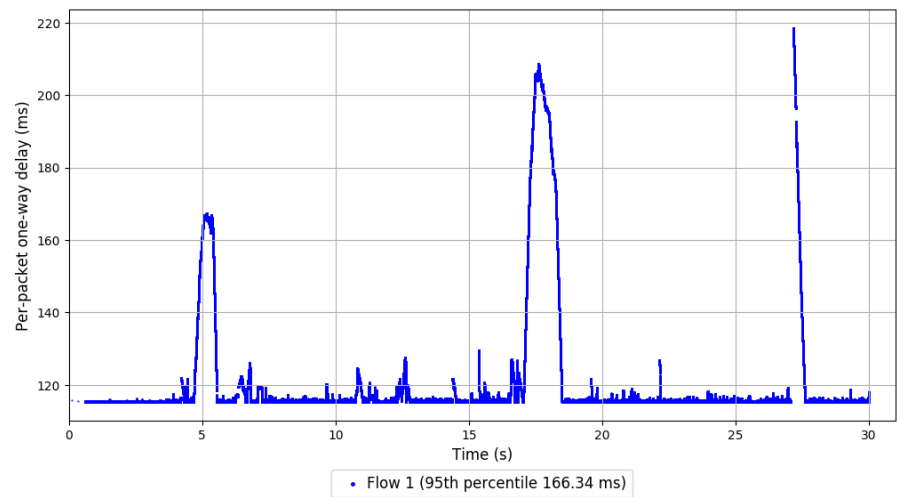
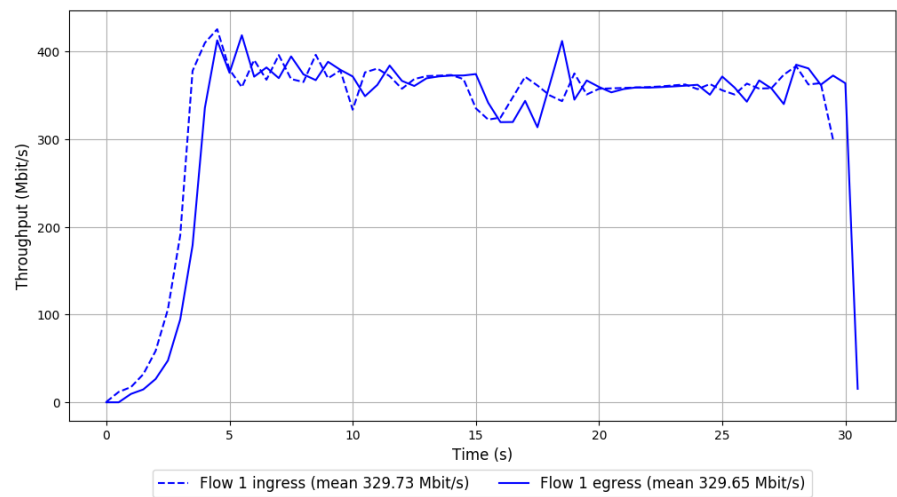
-- Flow 1:

Average throughput: 329.65 Mbit/s

95th percentile per-packet one-way delay: 166.343 ms

Loss rate: 0.02%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2018-08-27 08:33:47

End at: 2018-08-27 08:34:17

Local clock offset: -2.872 ms

Remote clock offset: 0.887 ms

Below is generated by plot.py at 2018-08-27 13:08:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 315.04 Mbit/s

95th percentile per-packet one-way delay: 197.833 ms

Loss rate: 0.51%

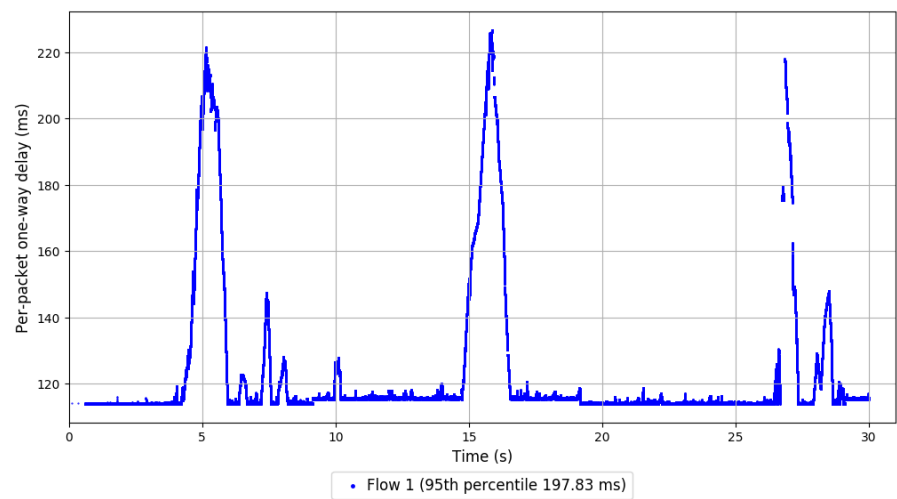
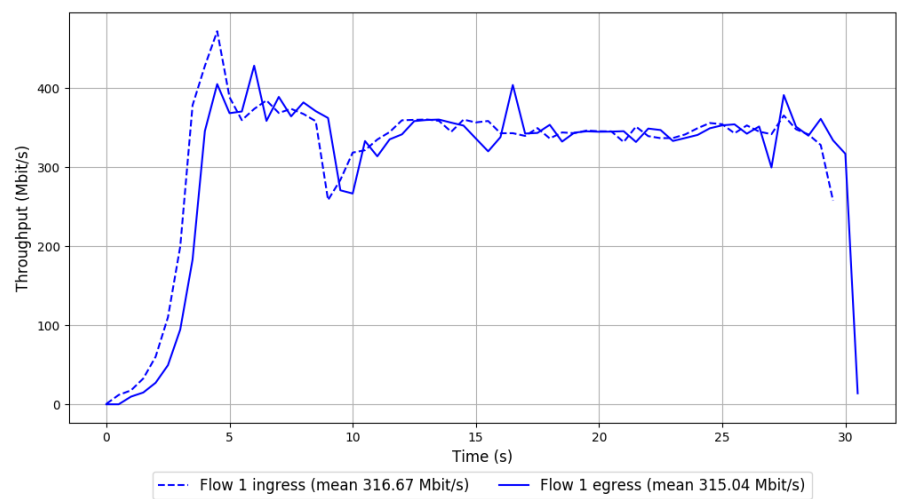
-- Flow 1:

Average throughput: 315.04 Mbit/s

95th percentile per-packet one-way delay: 197.833 ms

Loss rate: 0.51%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2018-08-27 08:58:09

End at: 2018-08-27 08:58:39

Local clock offset: -0.22 ms

Remote clock offset: 0.181 ms

Below is generated by plot.py at 2018-08-27 13:08:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 324.13 Mbit/s

95th percentile per-packet one-way delay: 182.281 ms

Loss rate: 0.16%

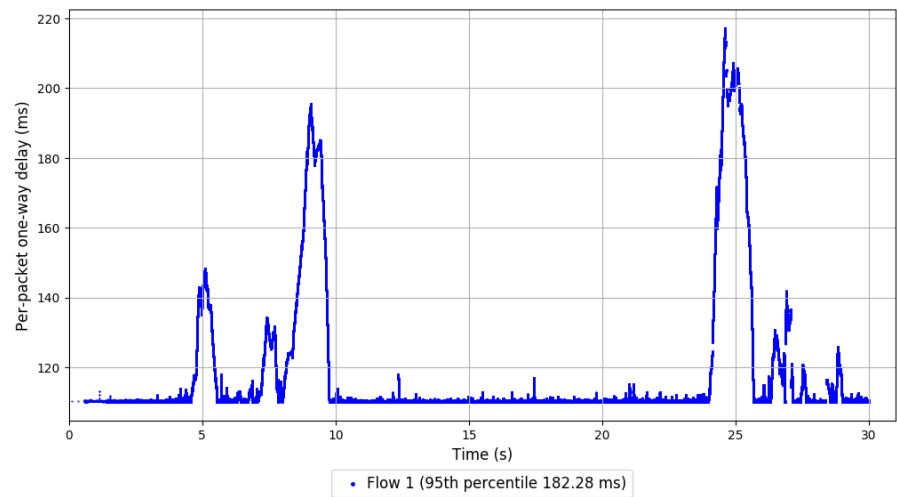
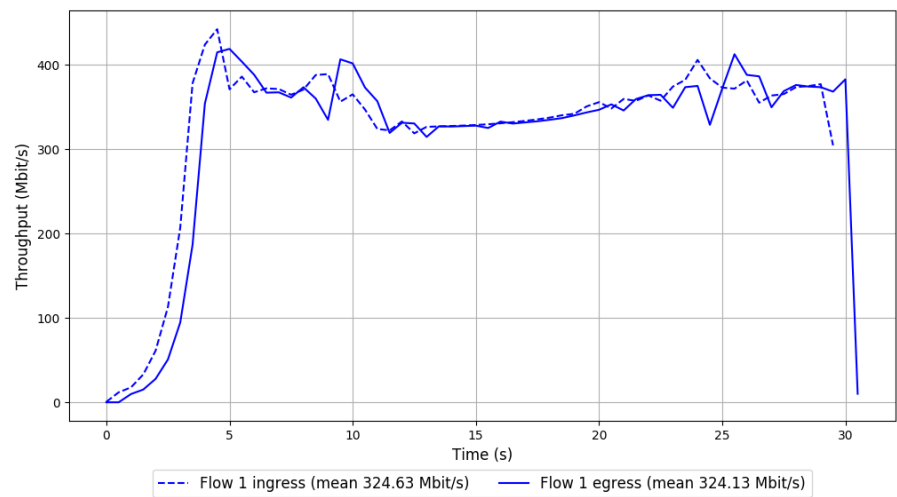
-- Flow 1:

Average throughput: 324.13 Mbit/s

95th percentile per-packet one-way delay: 182.281 ms

Loss rate: 0.16%

Run 5: Report of PCC-Expr — Data Link



Run 6: Statistics of PCC-Expr

Start at: 2018-08-27 09:22:28

End at: 2018-08-27 09:22:58

Local clock offset: -3.018 ms

Remote clock offset: 1.292 ms

Below is generated by plot.py at 2018-08-27 13:08:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 283.77 Mbit/s

95th percentile per-packet one-way delay: 204.909 ms

Loss rate: 0.48%

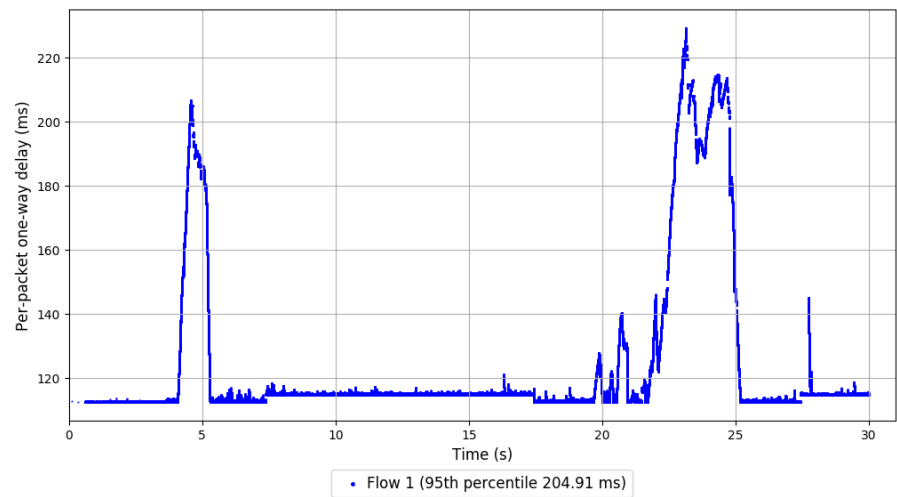
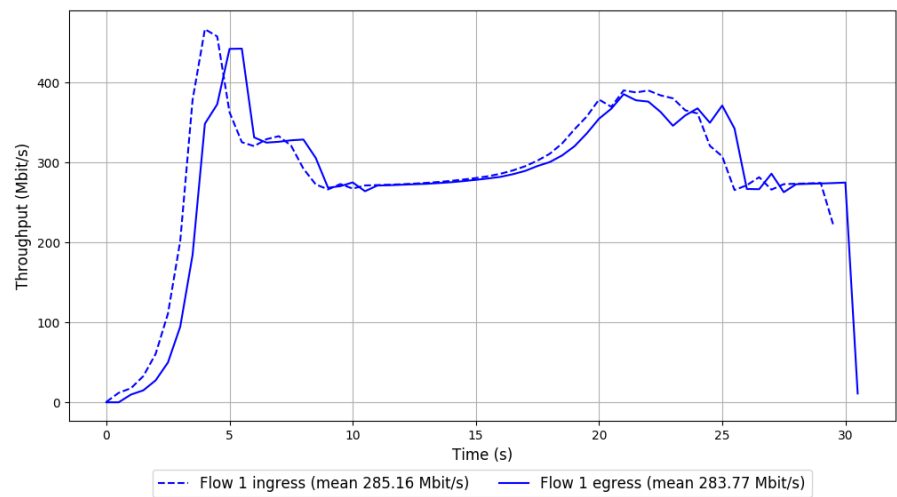
-- Flow 1:

Average throughput: 283.77 Mbit/s

95th percentile per-packet one-way delay: 204.909 ms

Loss rate: 0.48%

Run 6: Report of PCC-Expr — Data Link



Run 7: Statistics of PCC-Expr

Start at: 2018-08-27 09:46:37

End at: 2018-08-27 09:47:07

Local clock offset: -0.069 ms

Remote clock offset: 0.379 ms

Below is generated by plot.py at 2018-08-27 13:08:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 315.61 Mbit/s

95th percentile per-packet one-way delay: 160.015 ms

Loss rate: 0.45%

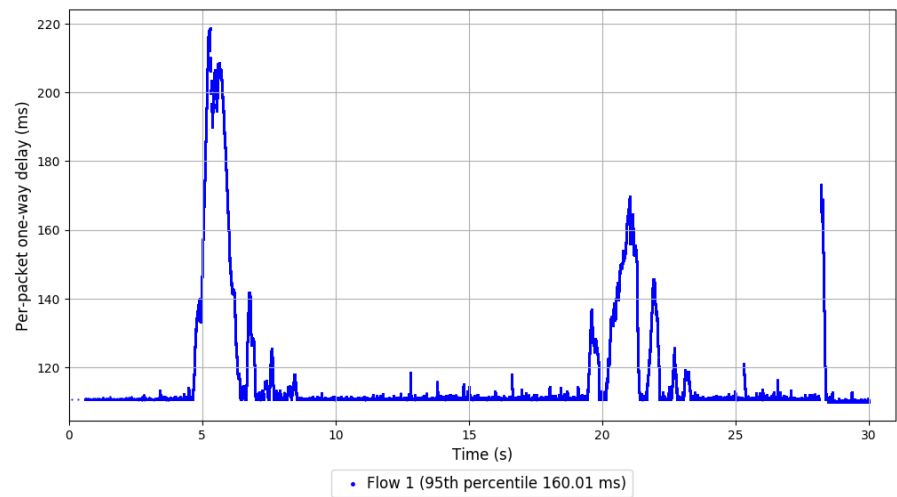
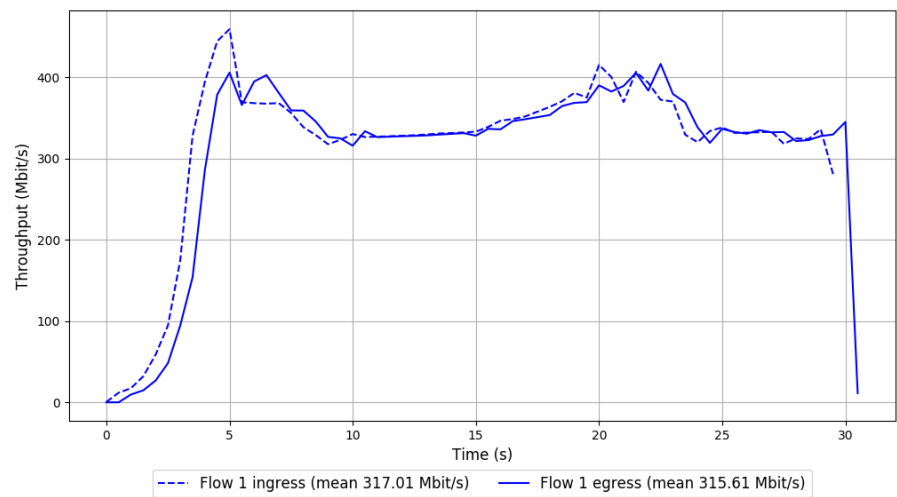
-- Flow 1:

Average throughput: 315.61 Mbit/s

95th percentile per-packet one-way delay: 160.015 ms

Loss rate: 0.45%

Run 7: Report of PCC-Expr — Data Link

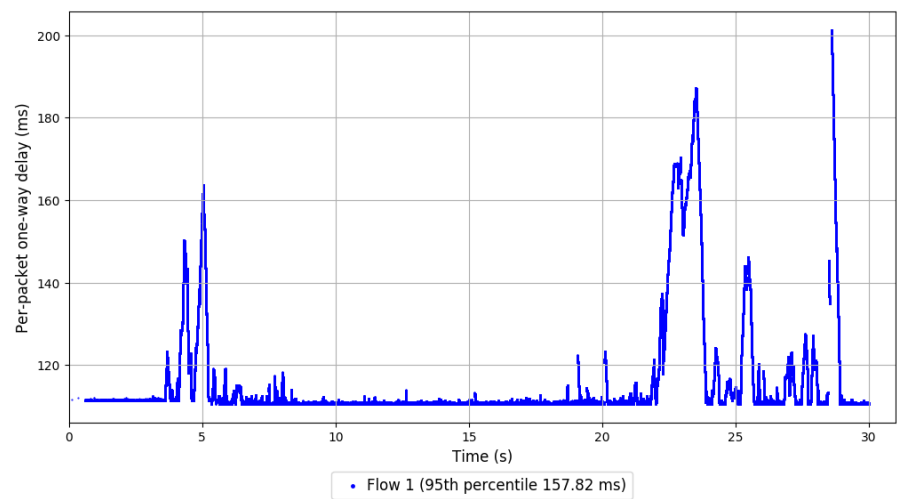
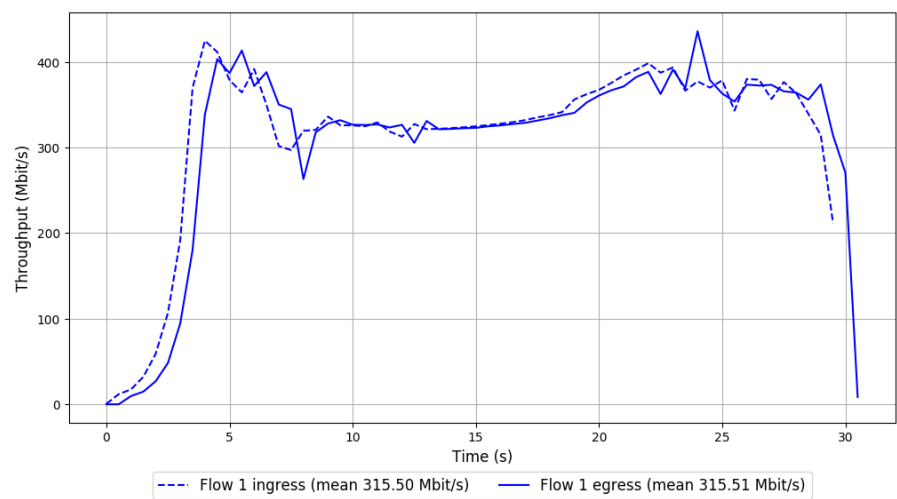


Run 8: Statistics of PCC-Expr

Start at: 2018-08-27 10:11:08
End at: 2018-08-27 10:11:38
Local clock offset: -0.211 ms
Remote clock offset: -0.112 ms

Below is generated by plot.py at 2018-08-27 13:15:32
Datalink statistics
-- Total of 1 flow:
Average throughput: 315.51 Mbit/s
95th percentile per-packet one-way delay: 157.817 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 315.51 Mbit/s
95th percentile per-packet one-way delay: 157.817 ms
Loss rate: 0.00%

Run 8: Report of PCC-Expr — Data Link

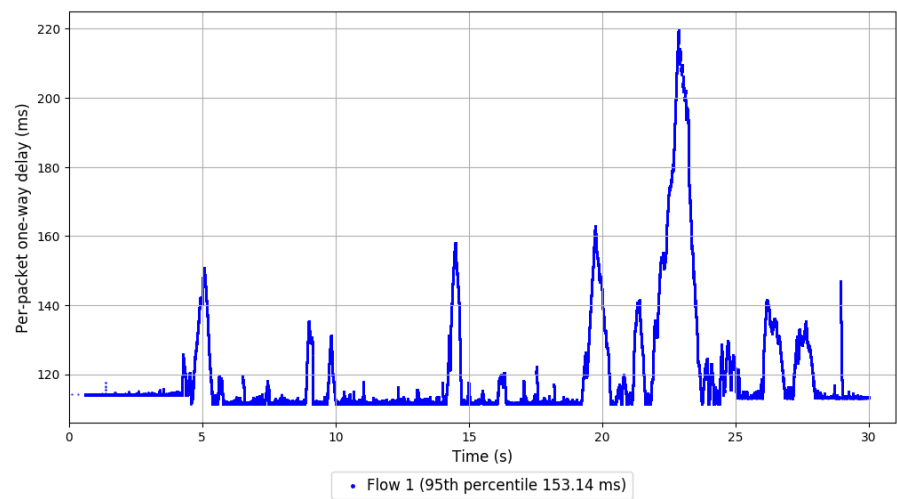
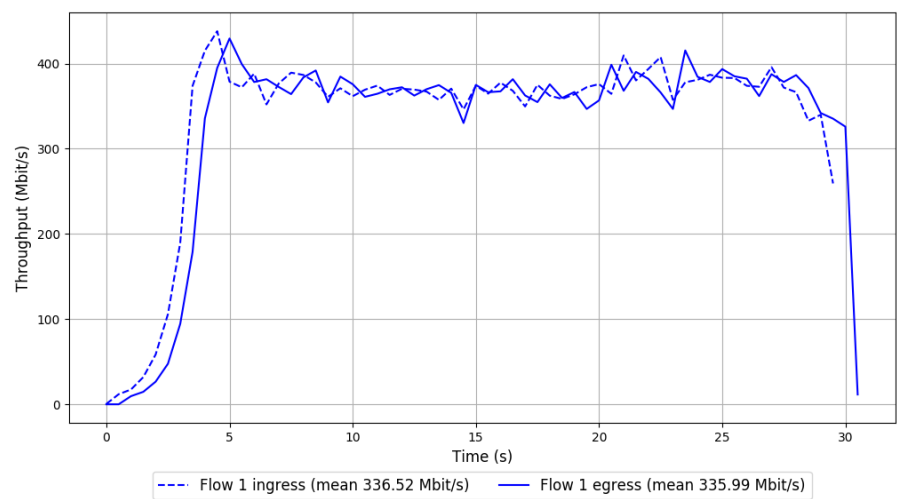


Run 9: Statistics of PCC-Expr

Start at: 2018-08-27 10:35:21
End at: 2018-08-27 10:35:51
Local clock offset: -2.916 ms
Remote clock offset: -0.518 ms

Below is generated by plot.py at 2018-08-27 13:16:09
Datalink statistics
-- Total of 1 flow:
Average throughput: 335.99 Mbit/s
95th percentile per-packet one-way delay: 153.144 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 335.99 Mbit/s
95th percentile per-packet one-way delay: 153.144 ms
Loss rate: 0.16%

Run 9: Report of PCC-Expr — Data Link



Run 10: Statistics of PCC-Expr

Start at: 2018-08-27 10:59:23

End at: 2018-08-27 10:59:53

Local clock offset: 0.02 ms

Remote clock offset: -0.675 ms

Below is generated by plot.py at 2018-08-27 13:16:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 308.42 Mbit/s

95th percentile per-packet one-way delay: 136.592 ms

Loss rate: 0.23%

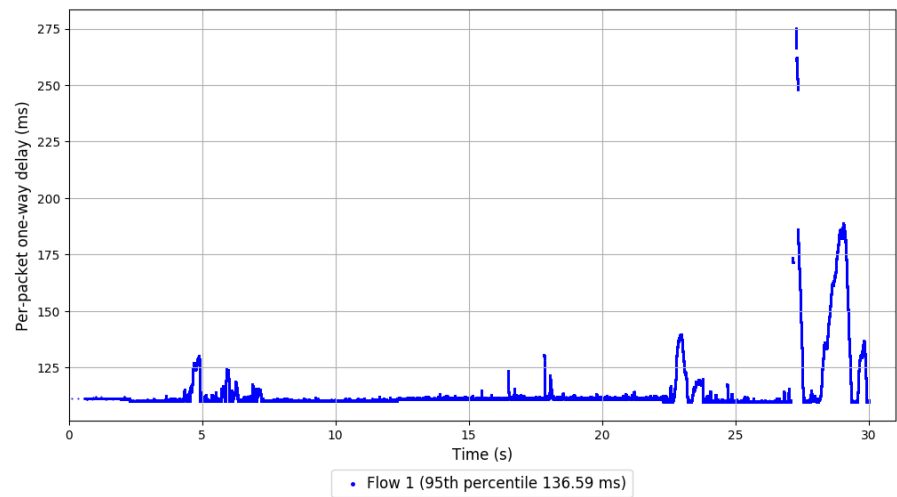
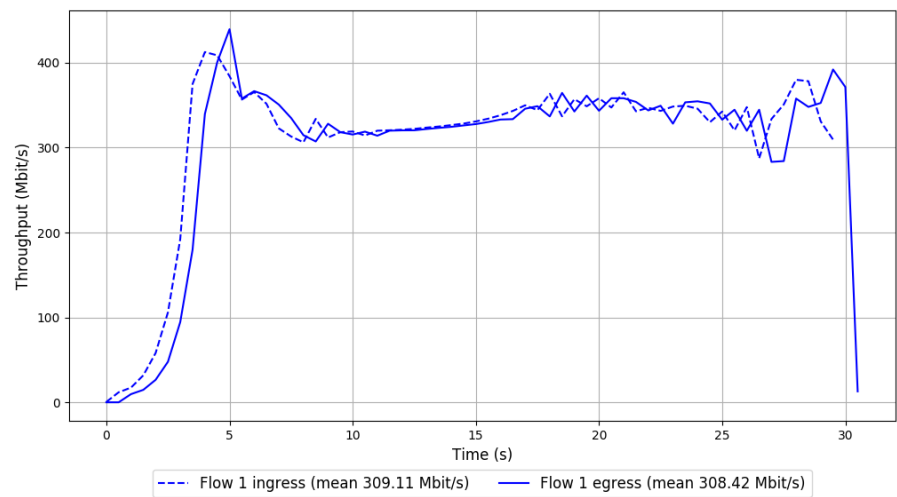
-- Flow 1:

Average throughput: 308.42 Mbit/s

95th percentile per-packet one-way delay: 136.592 ms

Loss rate: 0.23%

Run 10: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

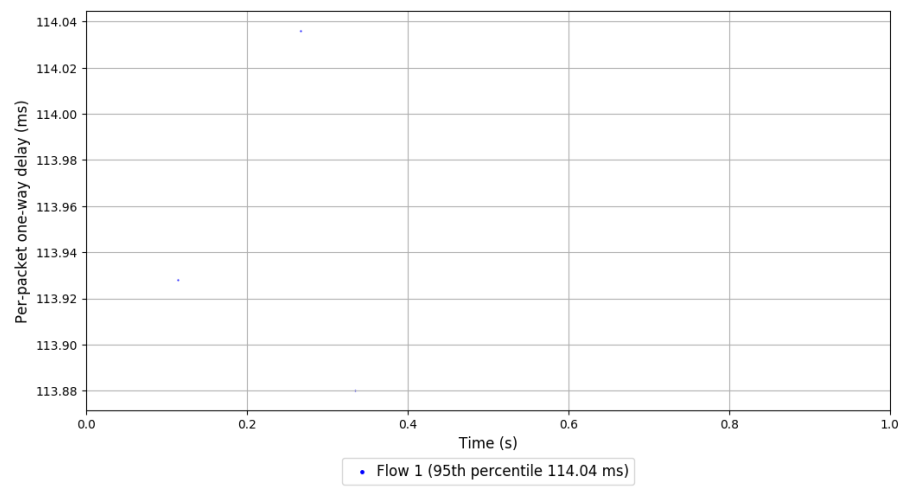
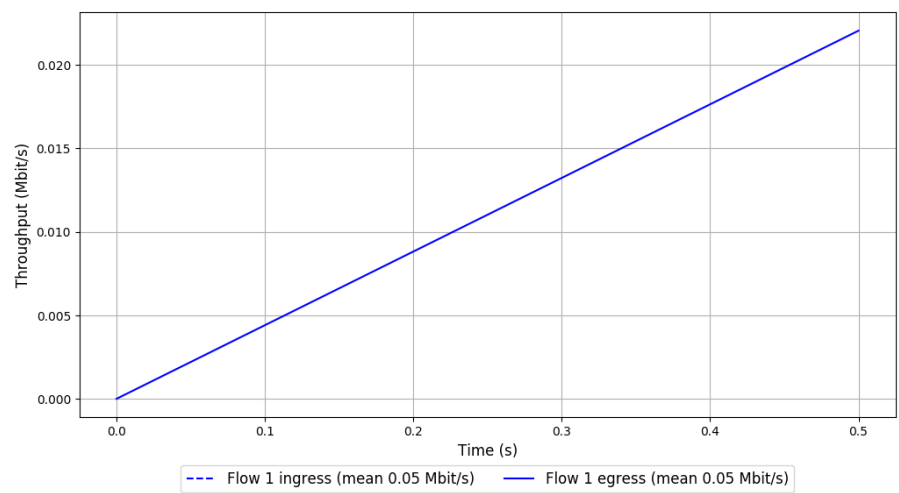
Start at: 2018-08-27 07:10:46

End at: 2018-08-27 07:11:16

Local clock offset: -2.917 ms

Remote clock offset: 9.721 ms

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-08-27 07:34:55

End at: 2018-08-27 07:35:25

Local clock offset: -0.141 ms

Remote clock offset: 8.469 ms

Below is generated by plot.py at 2018-08-27 13:16:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 65.86 Mbit/s

95th percentile per-packet one-way delay: 112.440 ms

Loss rate: 0.00%

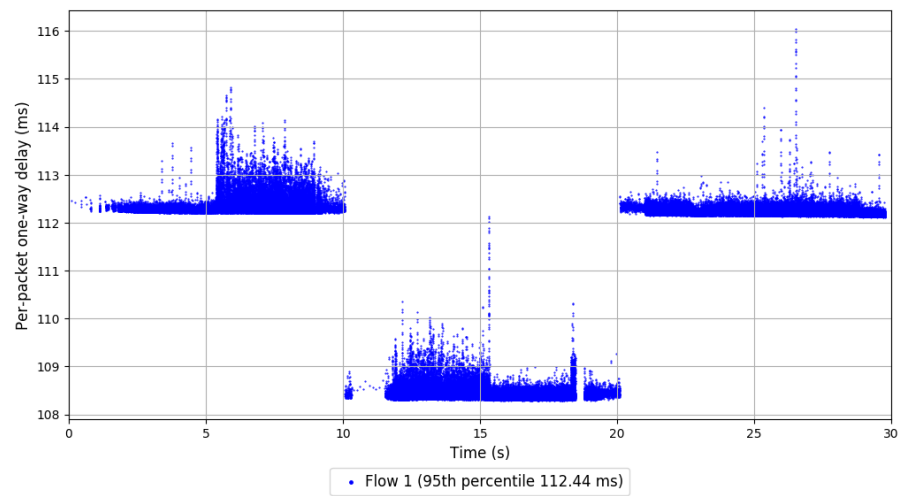
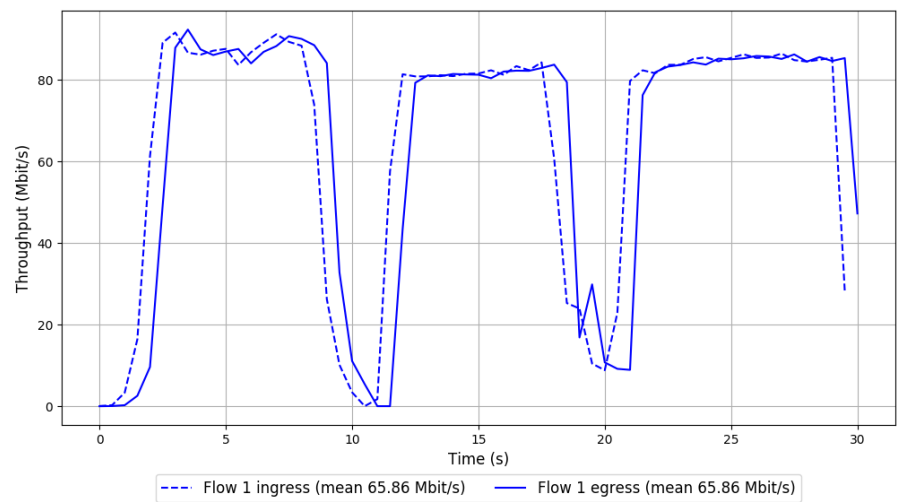
-- Flow 1:

Average throughput: 65.86 Mbit/s

95th percentile per-packet one-way delay: 112.440 ms

Loss rate: 0.00%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-08-27 07:59:16

End at: 2018-08-27 07:59:46

Local clock offset: 2.615 ms

Remote clock offset: 2.104 ms

Below is generated by plot.py at 2018-08-27 13:16:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.04 Mbit/s

95th percentile per-packet one-way delay: 108.427 ms

Loss rate: 0.00%

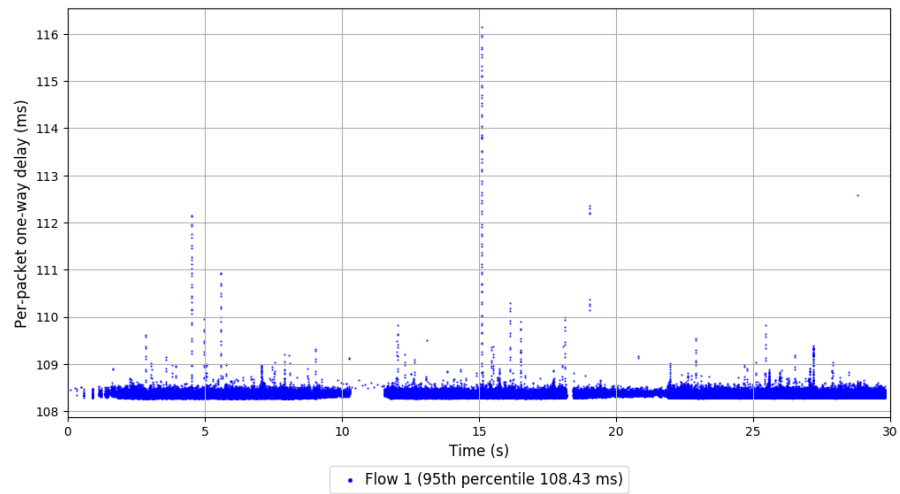
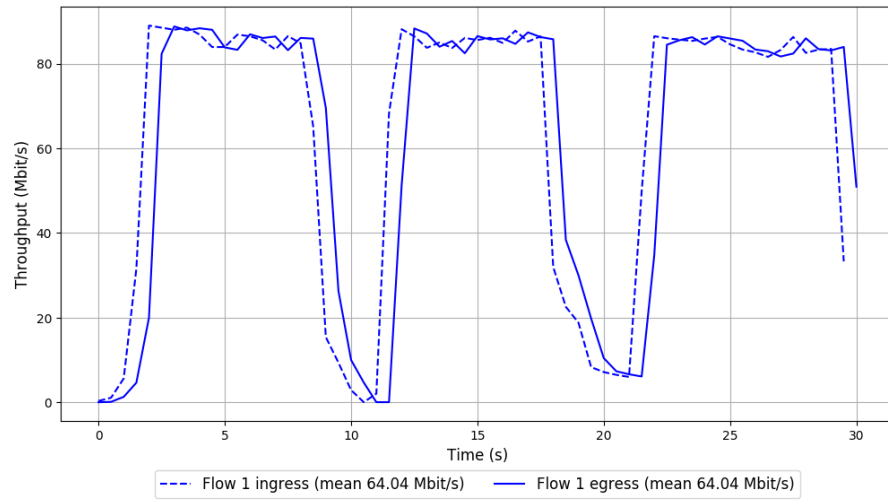
-- Flow 1:

Average throughput: 64.04 Mbit/s

95th percentile per-packet one-way delay: 108.427 ms

Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-08-27 08:23:24

End at: 2018-08-27 08:23:54

Local clock offset: -0.03 ms

Remote clock offset: 0.543 ms

Below is generated by plot.py at 2018-08-27 13:16:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.96 Mbit/s

95th percentile per-packet one-way delay: 112.268 ms

Loss rate: 0.00%

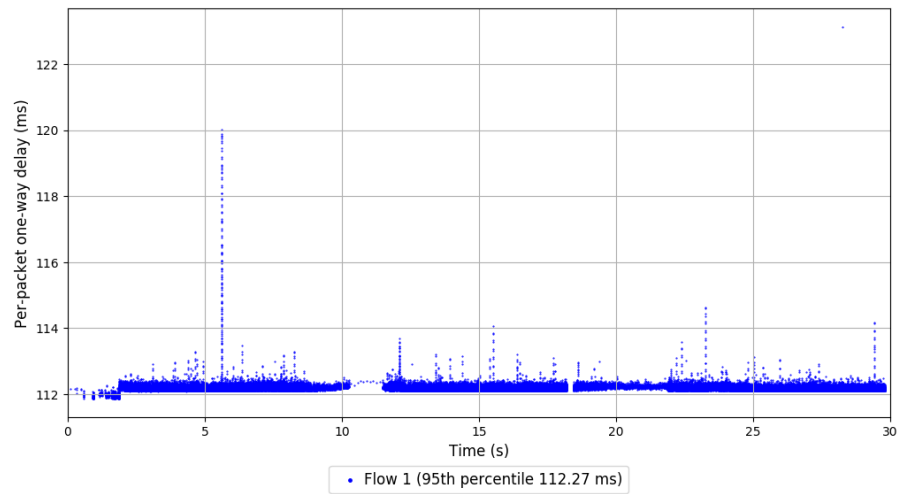
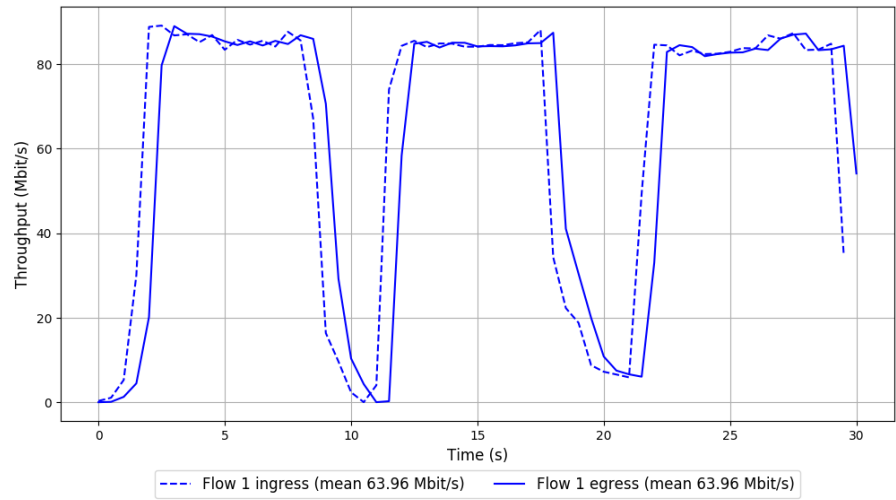
-- Flow 1:

Average throughput: 63.96 Mbit/s

95th percentile per-packet one-way delay: 112.268 ms

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

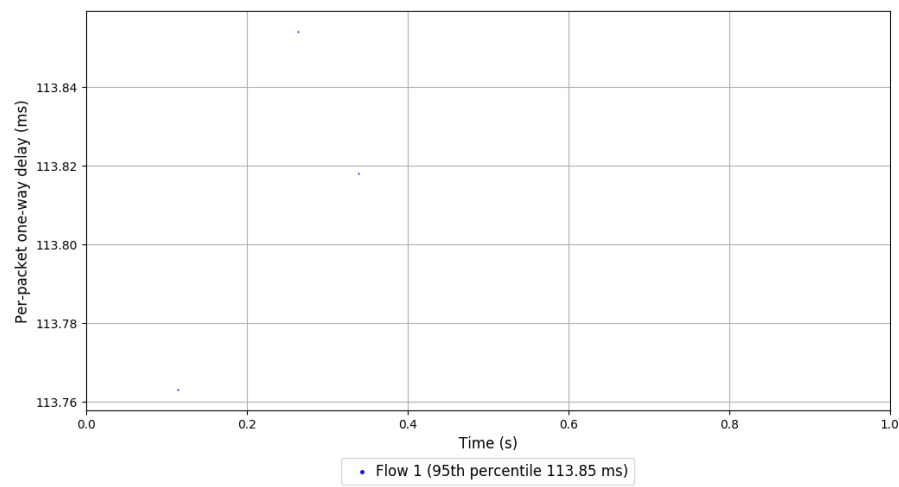
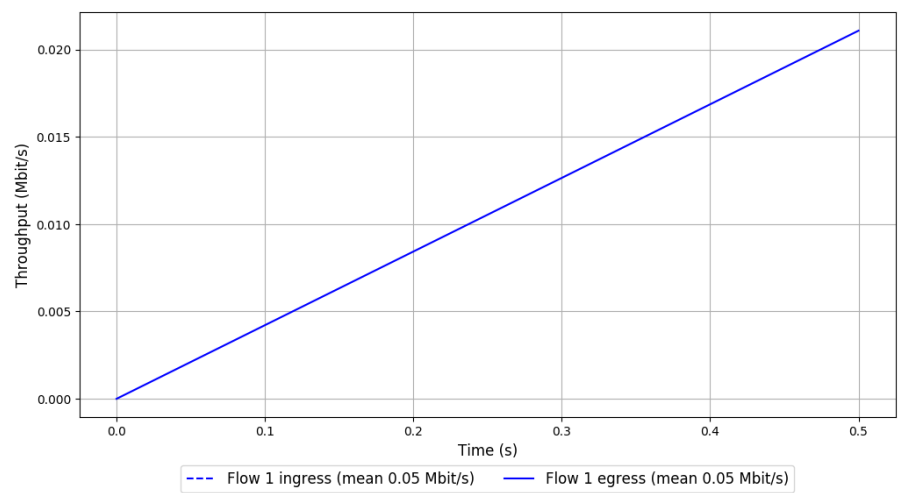
Start at: 2018-08-27 08:48:03

End at: 2018-08-27 08:48:33

Local clock offset: -2.817 ms

Remote clock offset: 0.146 ms

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-08-27 09:12:01

End at: 2018-08-27 09:12:31

Local clock offset: -0.224 ms

Remote clock offset: 0.21 ms

Below is generated by plot.py at 2018-08-27 13:16:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 65.62 Mbit/s

95th percentile per-packet one-way delay: 111.322 ms

Loss rate: 0.00%

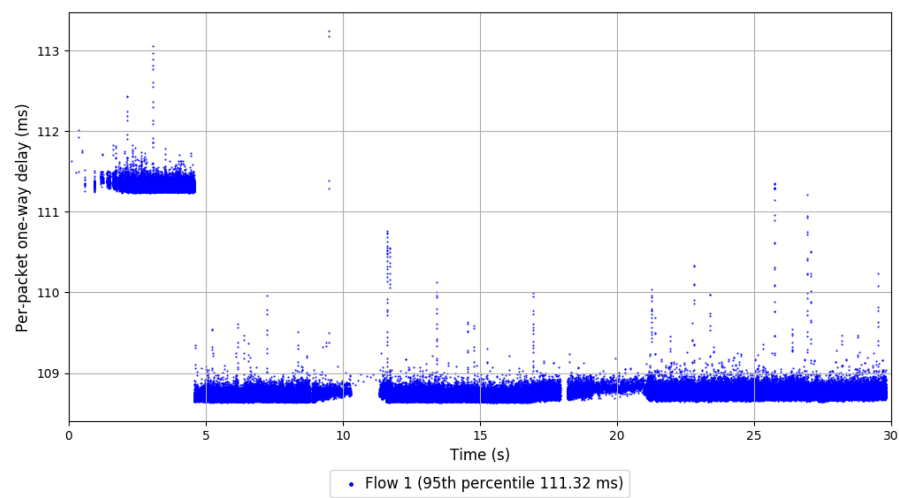
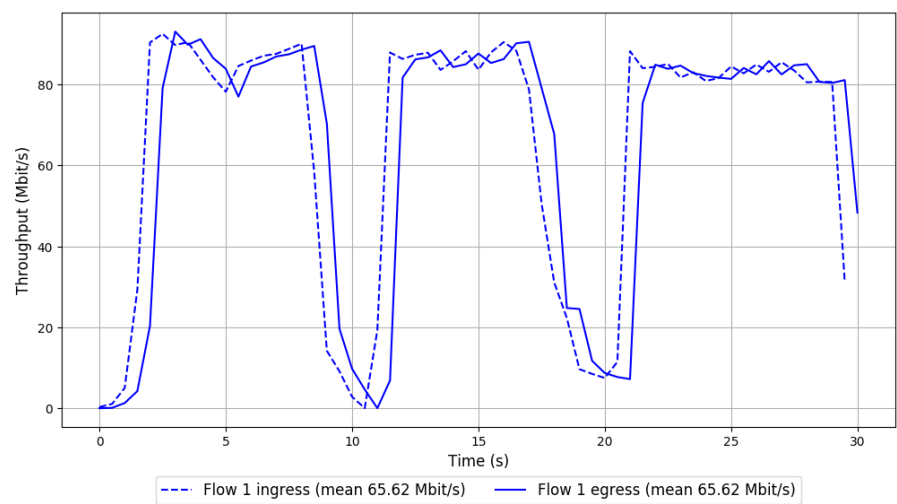
-- Flow 1:

Average throughput: 65.62 Mbit/s

95th percentile per-packet one-way delay: 111.322 ms

Loss rate: 0.00%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-08-27 09:36:22

End at: 2018-08-27 09:36:52

Local clock offset: 0.033 ms

Remote clock offset: -0.42 ms

Below is generated by plot.py at 2018-08-27 13:16:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.72 Mbit/s

95th percentile per-packet one-way delay: 111.662 ms

Loss rate: 0.00%

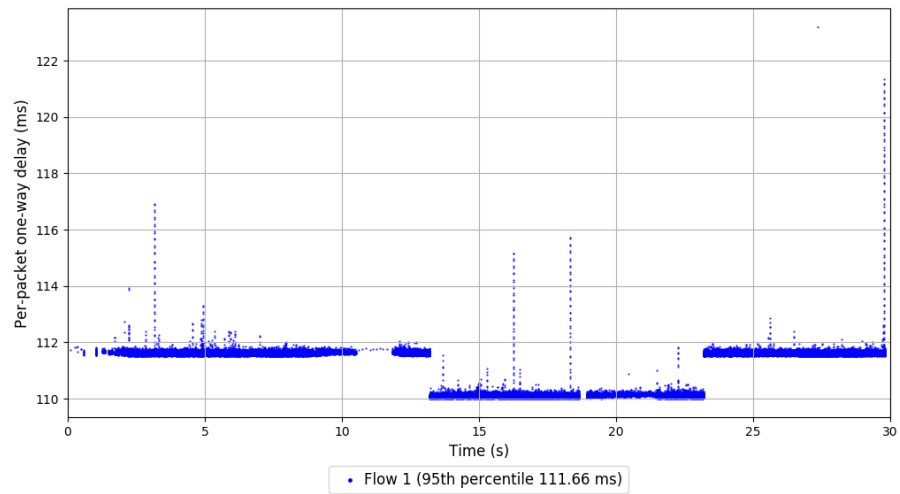
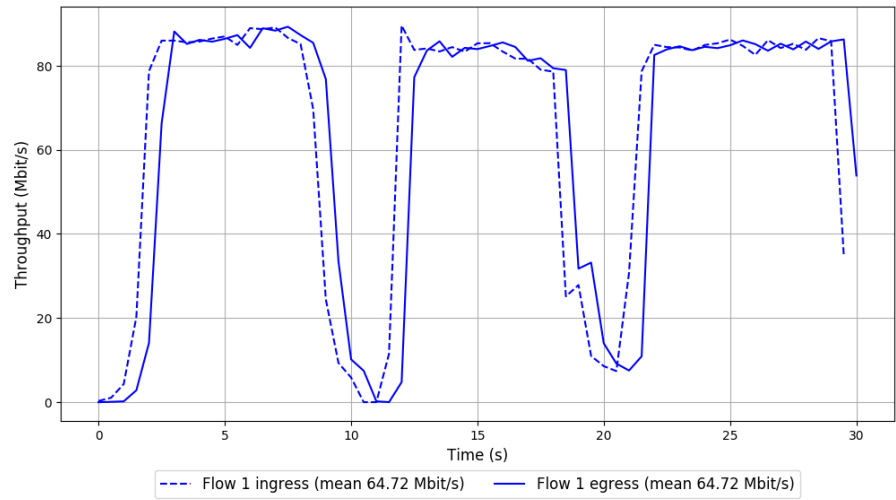
-- Flow 1:

Average throughput: 64.72 Mbit/s

95th percentile per-packet one-way delay: 111.662 ms

Loss rate: 0.00%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-08-27 10:00:32

End at: 2018-08-27 10:01:02

Local clock offset: -2.996 ms

Remote clock offset: -0.139 ms

Below is generated by plot.py at 2018-08-27 13:16:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 58.38 Mbit/s

95th percentile per-packet one-way delay: 114.841 ms

Loss rate: 0.00%

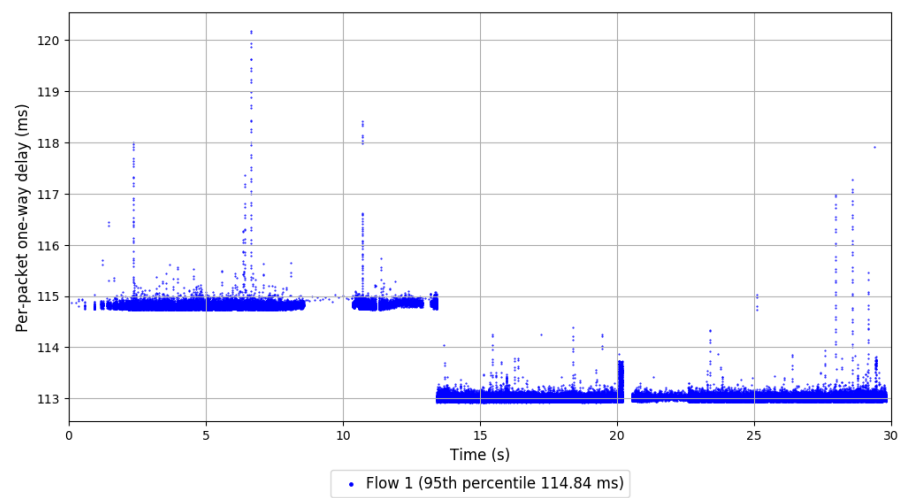
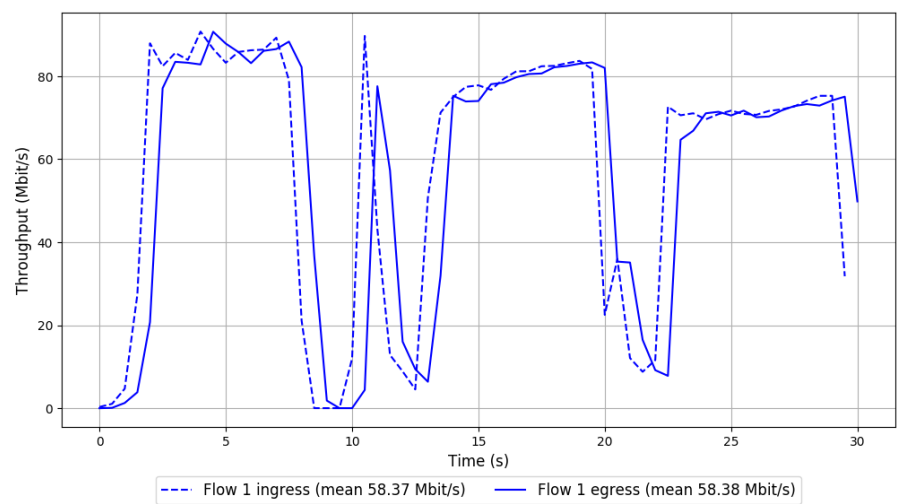
-- Flow 1:

Average throughput: 58.38 Mbit/s

95th percentile per-packet one-way delay: 114.841 ms

Loss rate: 0.00%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

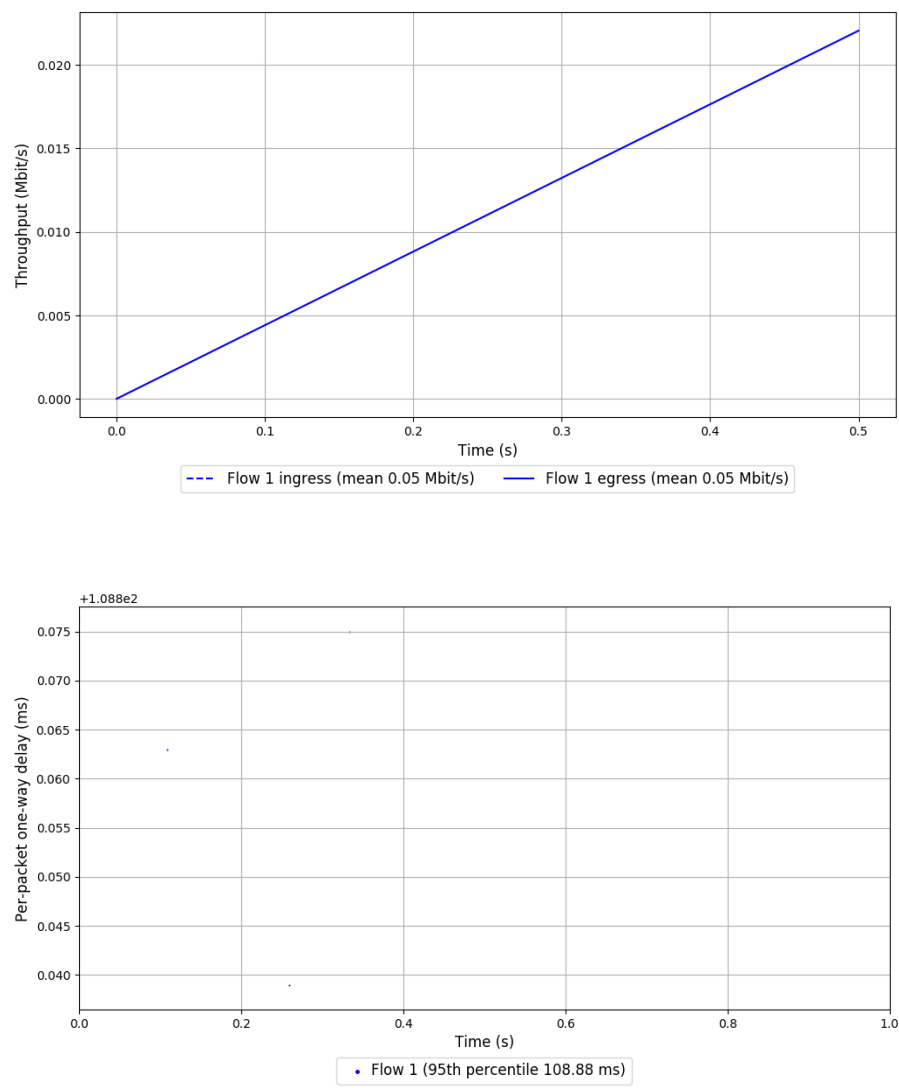
Start at: 2018-08-27 10:24:56

End at: 2018-08-27 10:25:26

Local clock offset: 2.566 ms

Remote clock offset: 0.146 ms

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-08-27 10:49:05

End at: 2018-08-27 10:49:35

Local clock offset: -0.102 ms

Remote clock offset: -0.571 ms

Below is generated by plot.py at 2018-08-27 13:16:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.24 Mbit/s

95th percentile per-packet one-way delay: 111.800 ms

Loss rate: 0.00%

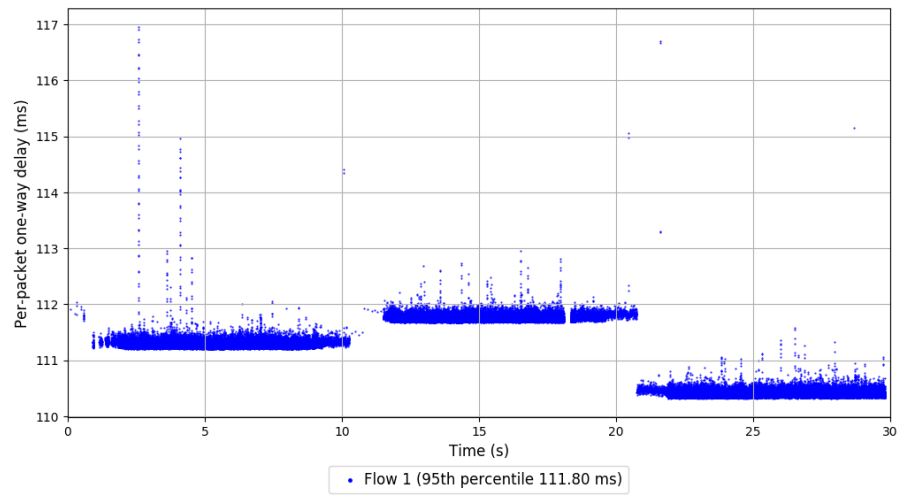
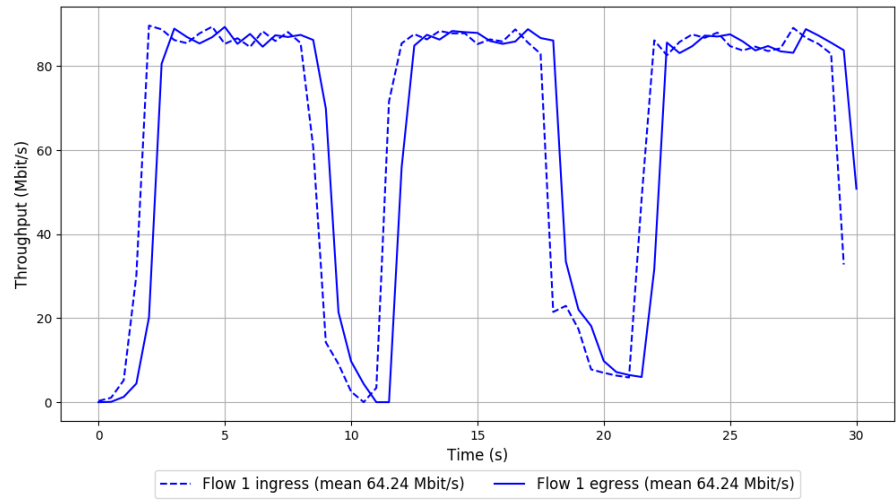
-- Flow 1:

Average throughput: 64.24 Mbit/s

95th percentile per-packet one-way delay: 111.800 ms

Loss rate: 0.00%

Run 10: Report of QUIC Cubic — Data Link

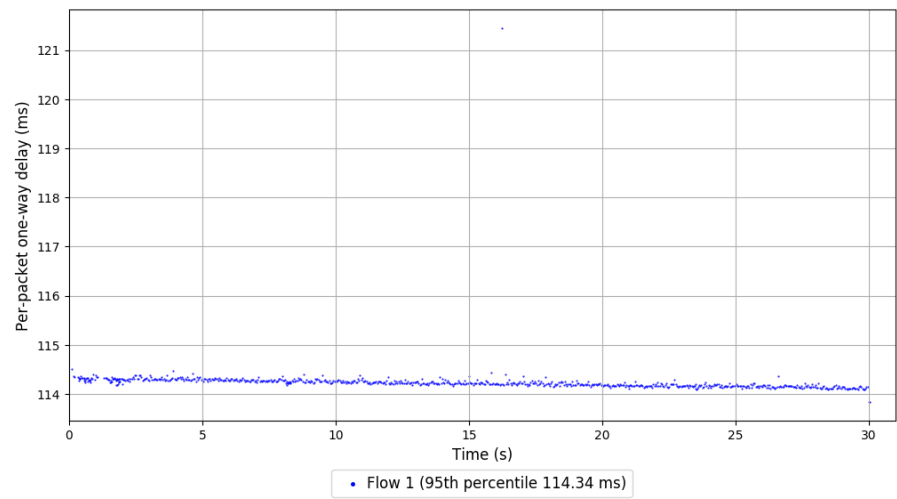
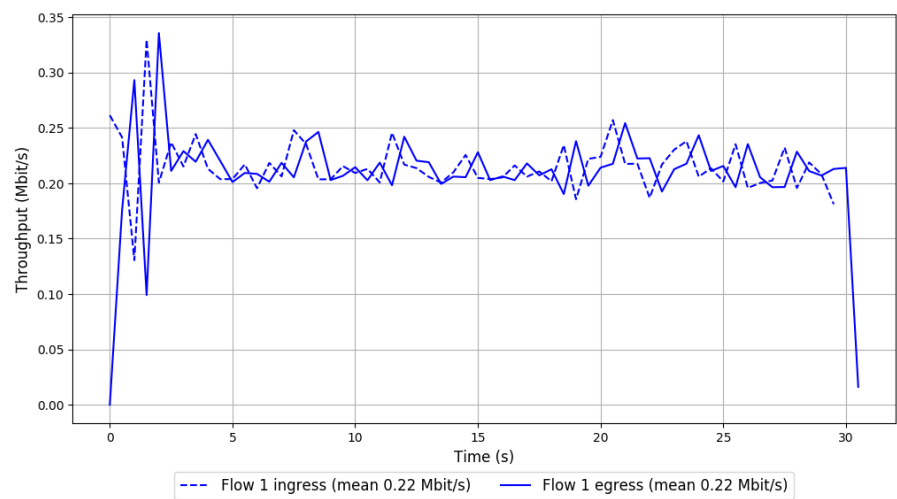


```
Run 1: Statistics of SCReAM

Start at: 2018-08-27 07:01:16
End at: 2018-08-27 07:01:46
Local clock offset: -3.093 ms
Remote clock offset: 19.088 ms

# Below is generated by plot.py at 2018-08-27 13:16:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 114.337 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 114.337 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2018-08-27 07:25:19

End at: 2018-08-27 07:25:49

Local clock offset: -0.141 ms

Remote clock offset: 6.784 ms

Below is generated by plot.py at 2018-08-27 13:16:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 112.421 ms

Loss rate: 0.00%

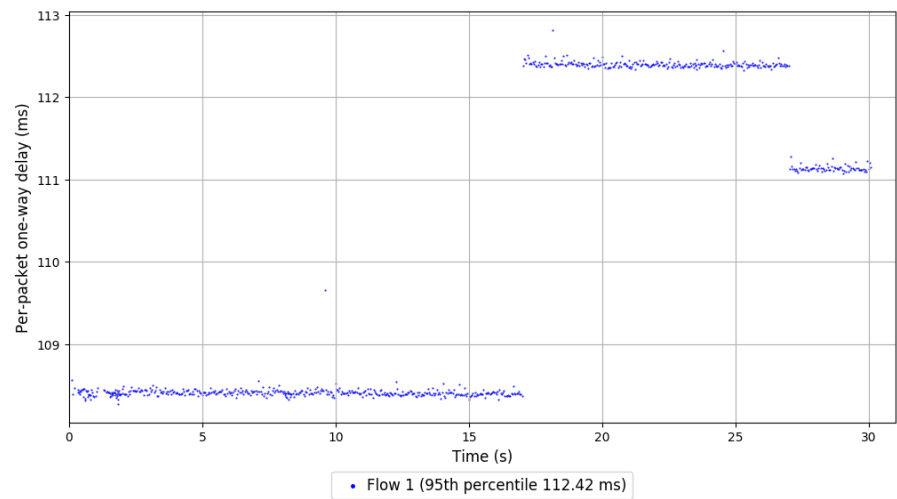
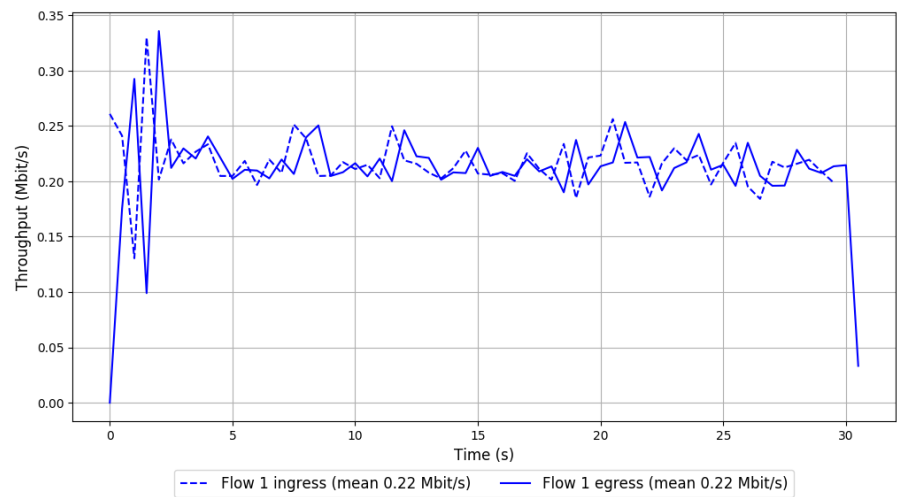
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 112.421 ms

Loss rate: 0.00%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-08-27 07:49:49

End at: 2018-08-27 07:50:19

Local clock offset: 0.006 ms

Remote clock offset: 3.483 ms

Below is generated by plot.py at 2018-08-27 13:16:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 112.293 ms

Loss rate: 0.00%

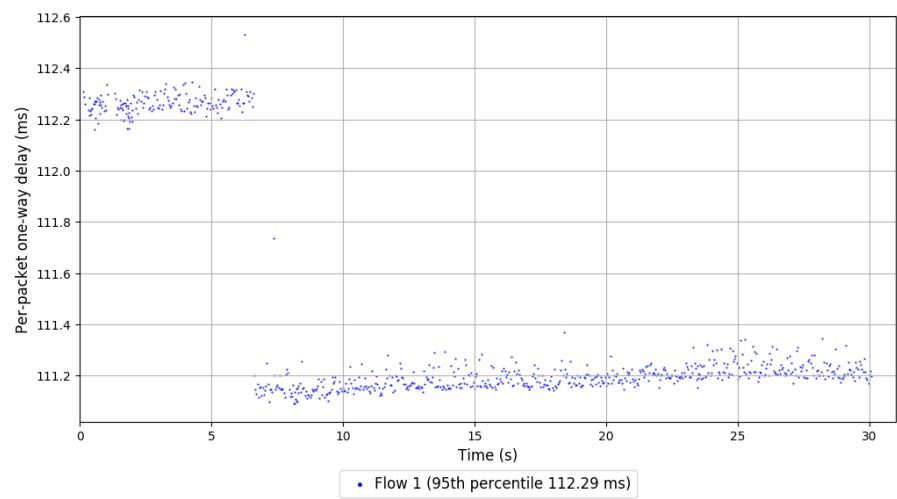
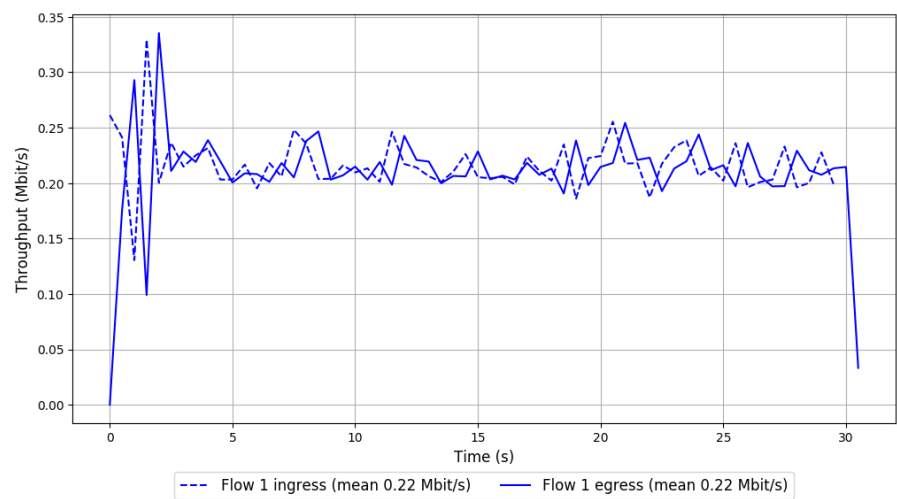
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 112.293 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2018-08-27 08:14:00

End at: 2018-08-27 08:14:30

Local clock offset: -0.156 ms

Remote clock offset: 1.529 ms

Below is generated by plot.py at 2018-08-27 13:16:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 110.851 ms

Loss rate: 0.00%

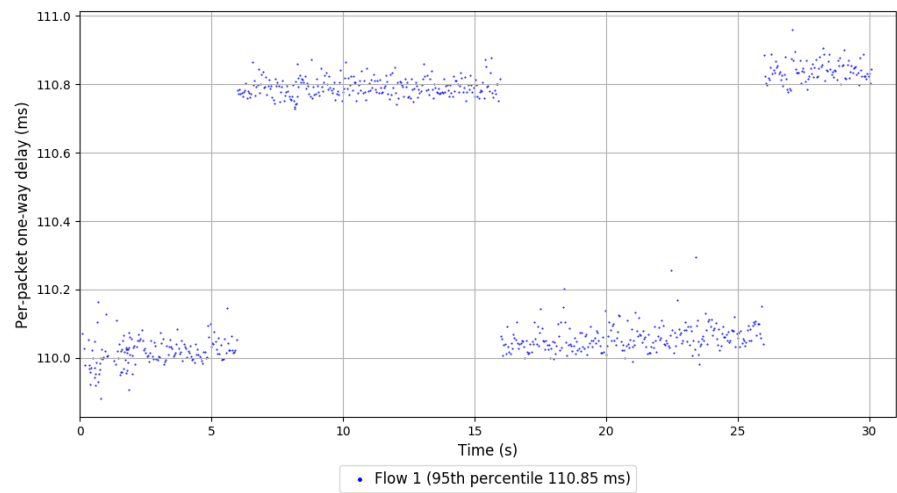
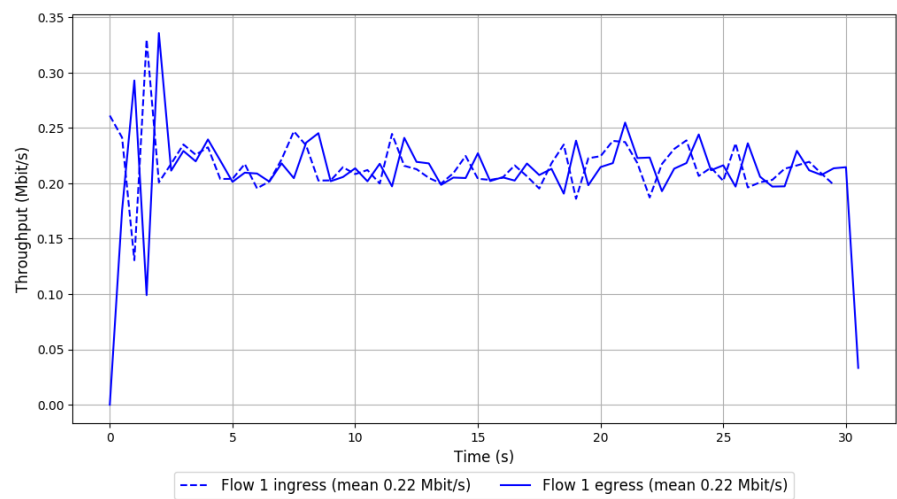
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 110.851 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-08-27 08:38:18

End at: 2018-08-27 08:38:48

Local clock offset: -0.093 ms

Remote clock offset: 0.618 ms

Below is generated by plot.py at 2018-08-27 13:16:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 111.610 ms

Loss rate: 0.00%

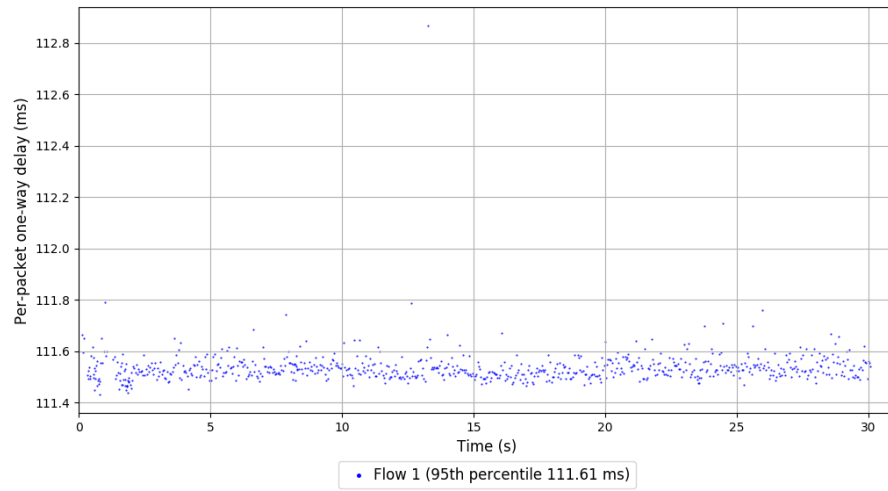
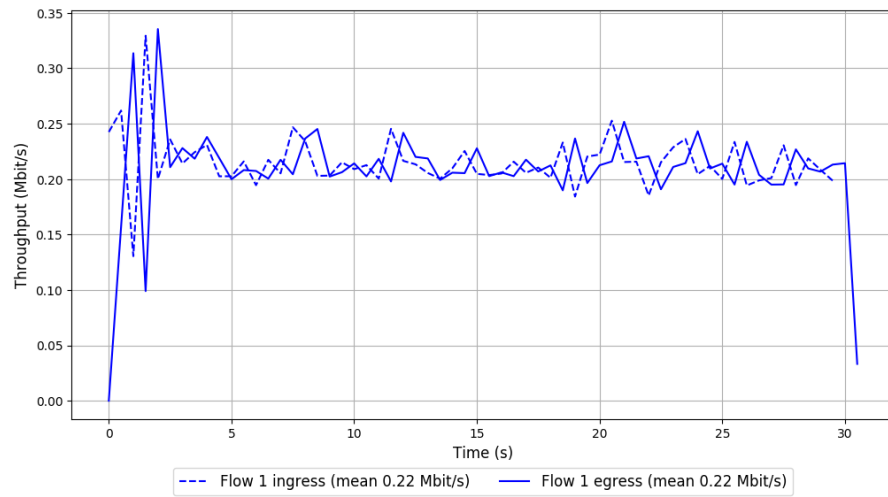
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 111.610 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-08-27 09:02:45

End at: 2018-08-27 09:03:15

Local clock offset: -0.208 ms

Remote clock offset: 0.384 ms

Below is generated by plot.py at 2018-08-27 13:16:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 111.373 ms

Loss rate: 0.00%

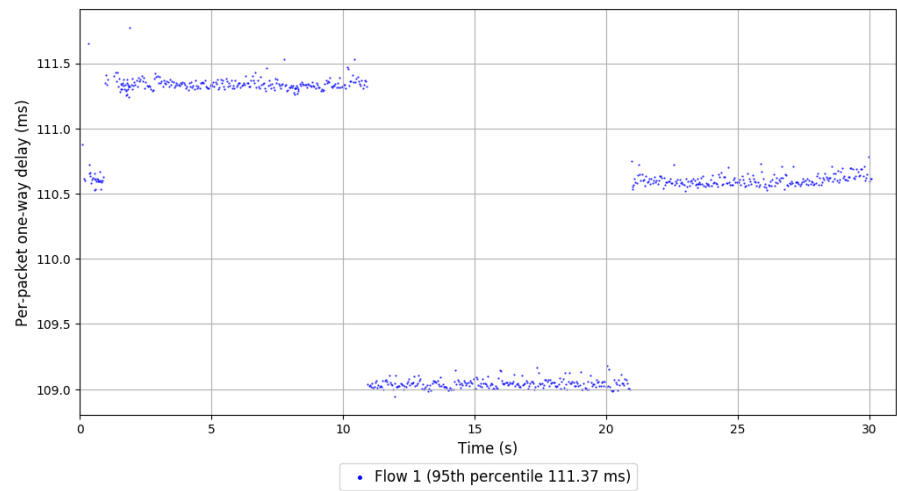
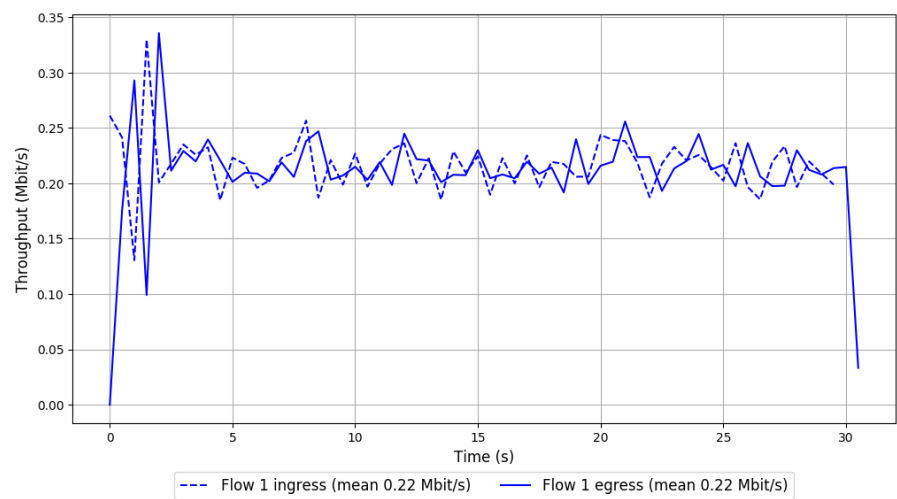
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 111.373 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2018-08-27 09:26:54

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

Local clock offset: -2.992 ms

Remote clock offset: 0.802 ms

Below is generated by plot.py at 2018-08-27 13:16:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 112.167 ms

Loss rate: 0.00%

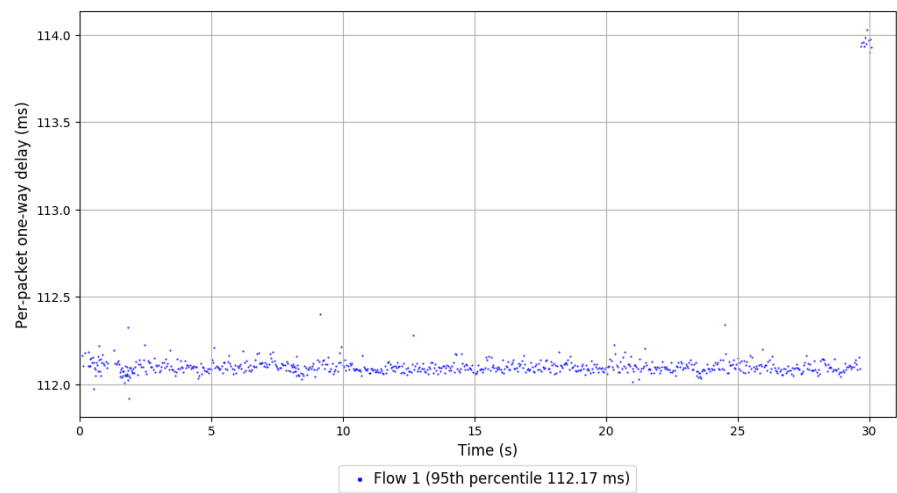
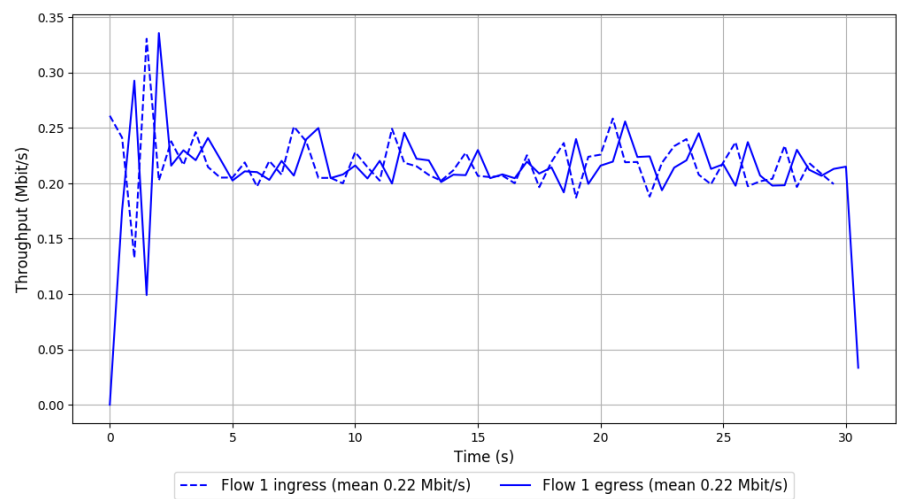
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 112.167 ms

Loss rate: 0.00%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-08-27 09:51:05

End at: 2018-08-27 09:51:35

Local clock offset: -0.162 ms

Remote clock offset: 0.399 ms

Below is generated by plot.py at 2018-08-27 13:16:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 110.667 ms

Loss rate: 0.00%

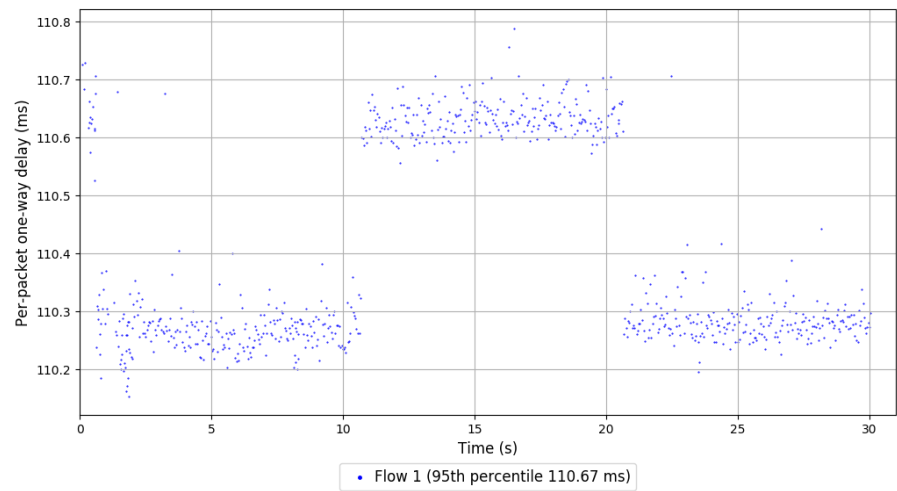
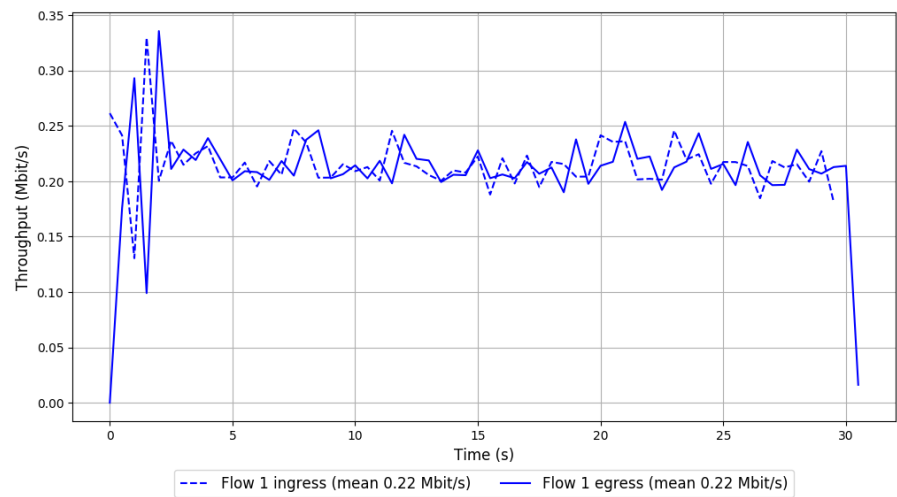
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 110.667 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link

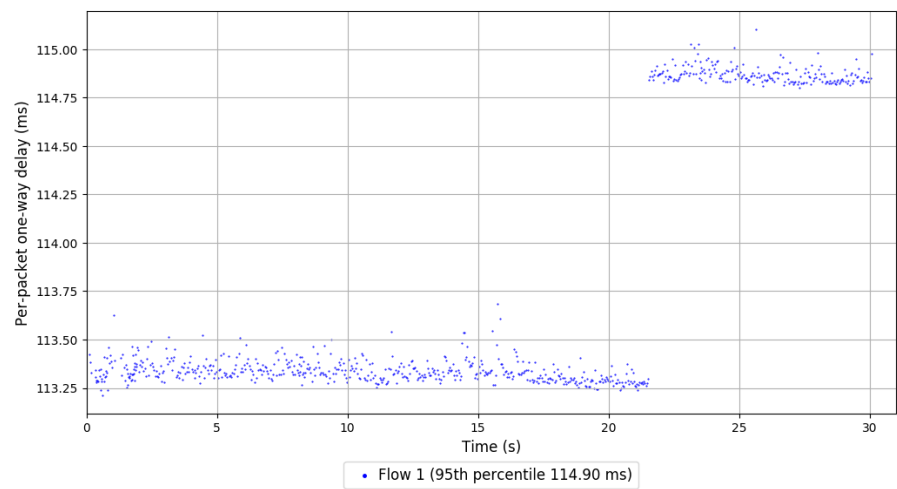
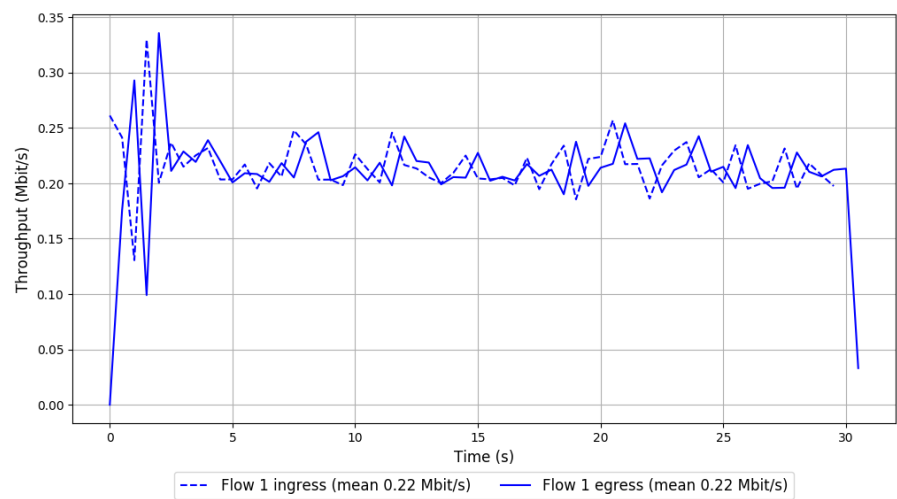


Run 9: Statistics of SCReAM

Start at: 2018-08-27 10:15:44
End at: 2018-08-27 10:16:14
Local clock offset: -2.934 ms
Remote clock offset: -0.391 ms

Below is generated by plot.py at 2018-08-27 13:16:09
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 114.898 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 114.898 ms
Loss rate: 0.00%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SCReAM

Start at: 2018-08-27 10:39:50

End at: 2018-08-27 10:40:20

Local clock offset: -0.12 ms

Remote clock offset: -0.085 ms

Below is generated by plot.py at 2018-08-27 13:16:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 112.725 ms

Loss rate: 0.00%

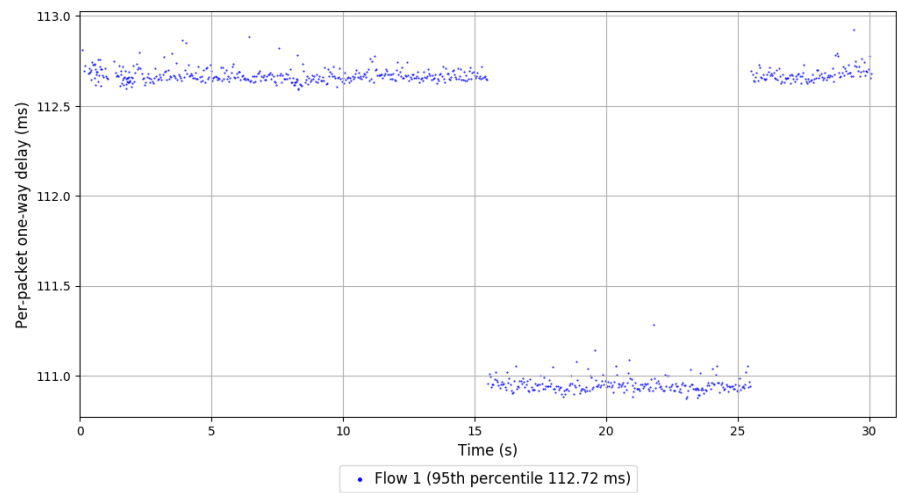
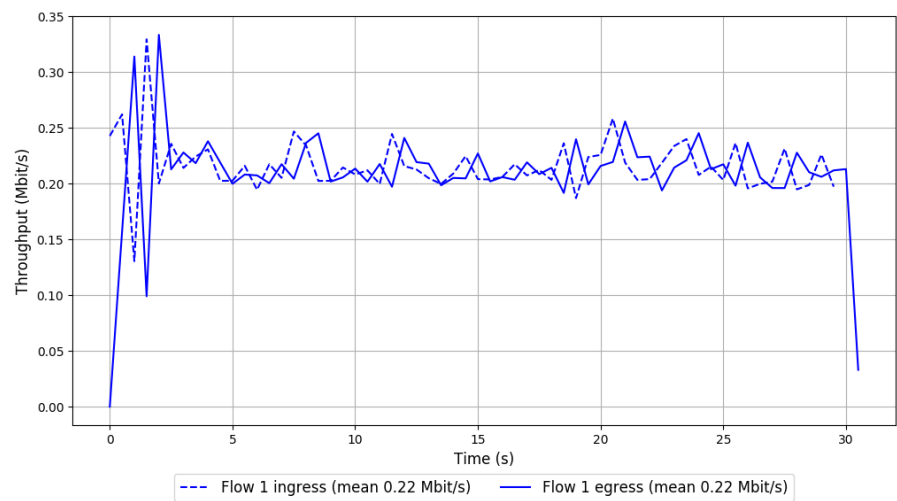
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 112.725 ms

Loss rate: 0.00%

Run 10: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2018-08-27 07:19:35

End at: 2018-08-27 07:20:05

Local clock offset: -2.882 ms

Remote clock offset: 7.015 ms

Below is generated by plot.py at 2018-08-27 13:16:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.25 Mbit/s

95th percentile per-packet one-way delay: 114.017 ms

Loss rate: 0.00%

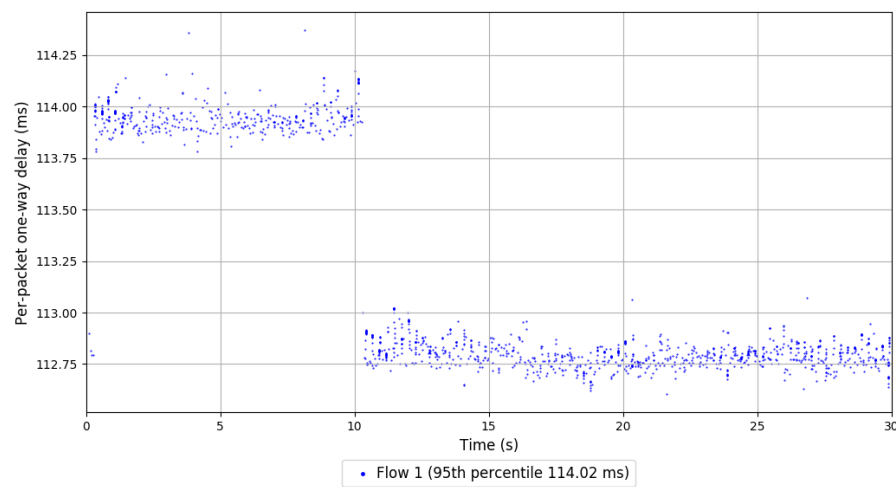
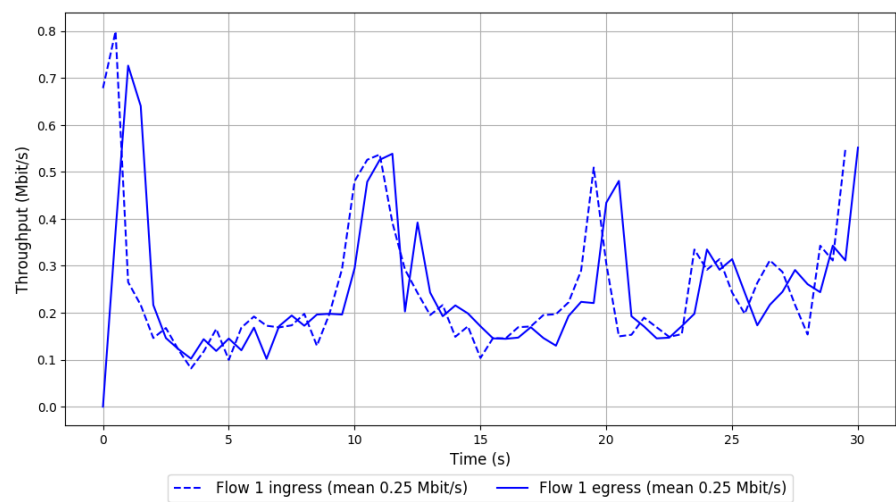
-- Flow 1:

Average throughput: 0.25 Mbit/s

95th percentile per-packet one-way delay: 114.017 ms

Loss rate: 0.00%

Run 1: Report of Sprout — Data Link

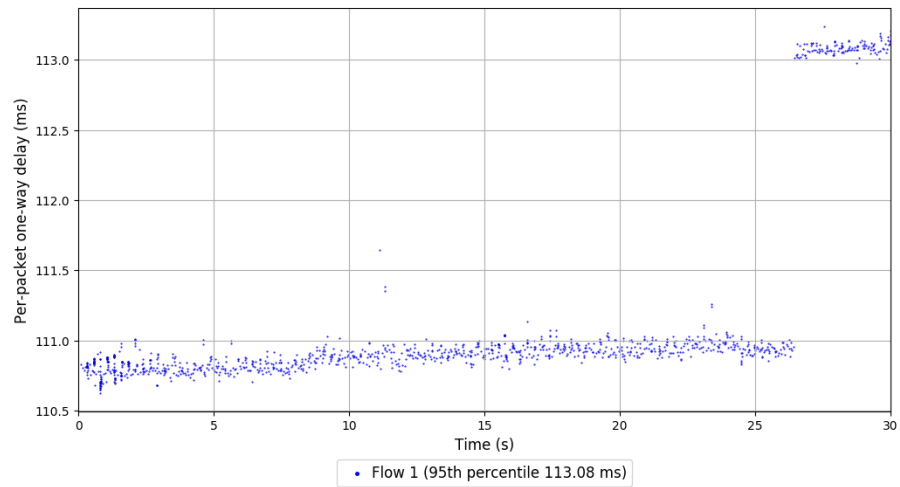
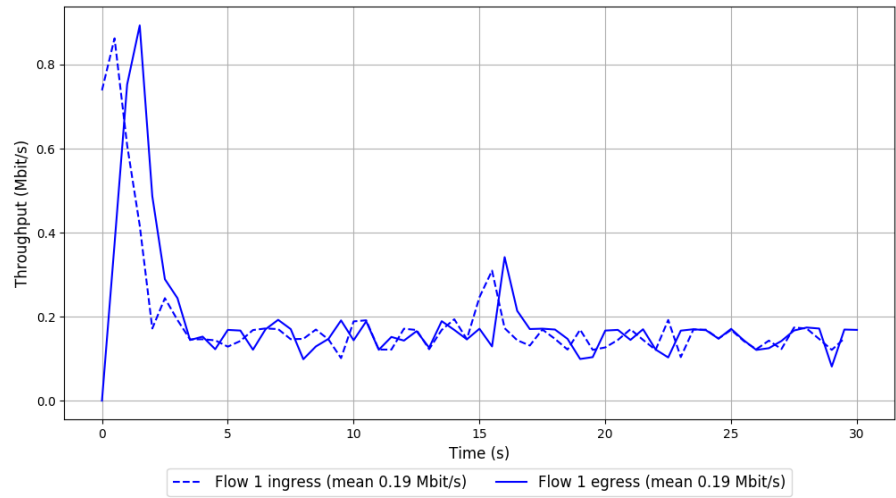


Run 2: Statistics of Sprout

Start at: 2018-08-27 07:44:09
End at: 2018-08-27 07:44:39
Local clock offset: -0.06 ms
Remote clock offset: 4.799 ms

Below is generated by plot.py at 2018-08-27 13:16:09
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 113.083 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 113.083 ms
Loss rate: 0.00%

Run 2: Report of Sprout — Data Link

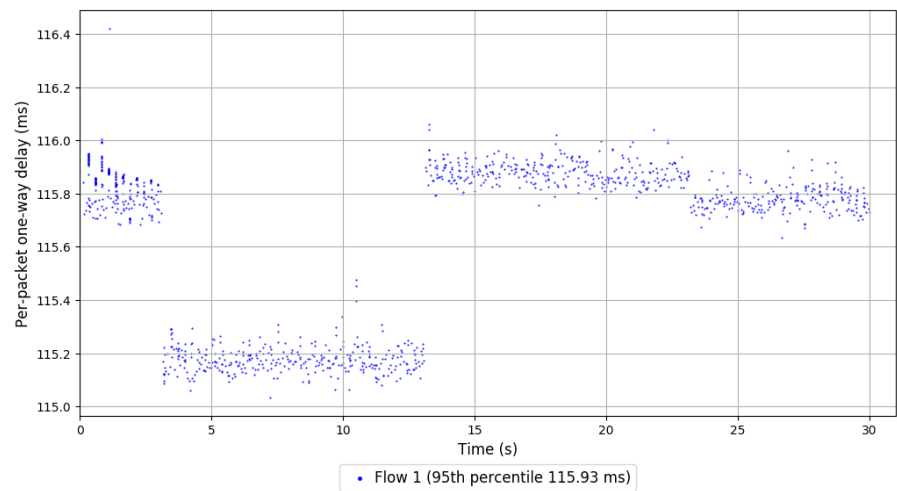
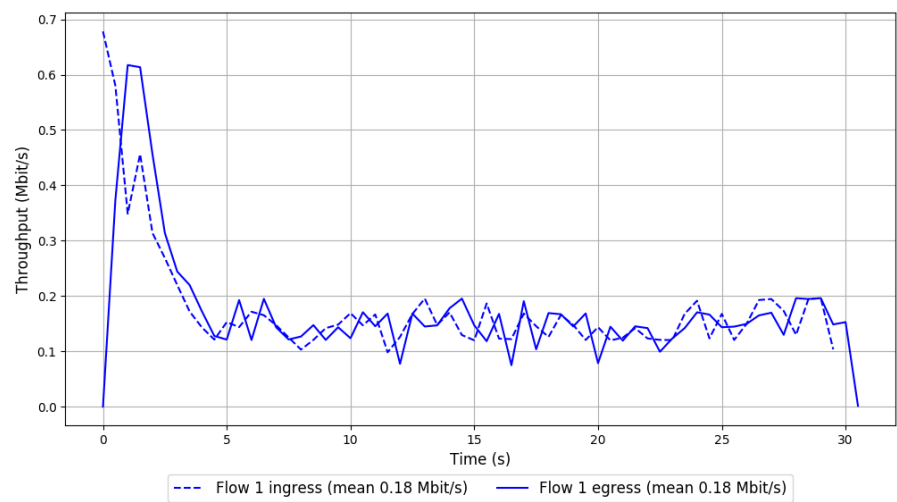


Run 3: Statistics of Sprout

Start at: 2018-08-27 08:08:23
End at: 2018-08-27 08:08:53
Local clock offset: -2.888 ms
Remote clock offset: 2.54 ms

Below is generated by plot.py at 2018-08-27 13:16:10
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 115.934 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 115.934 ms
Loss rate: 0.00%

Run 3: Report of Sprout — Data Link

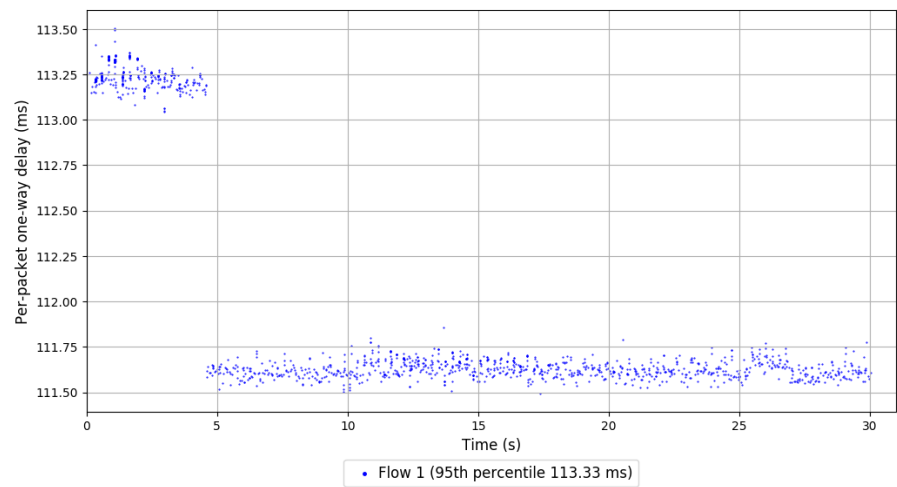
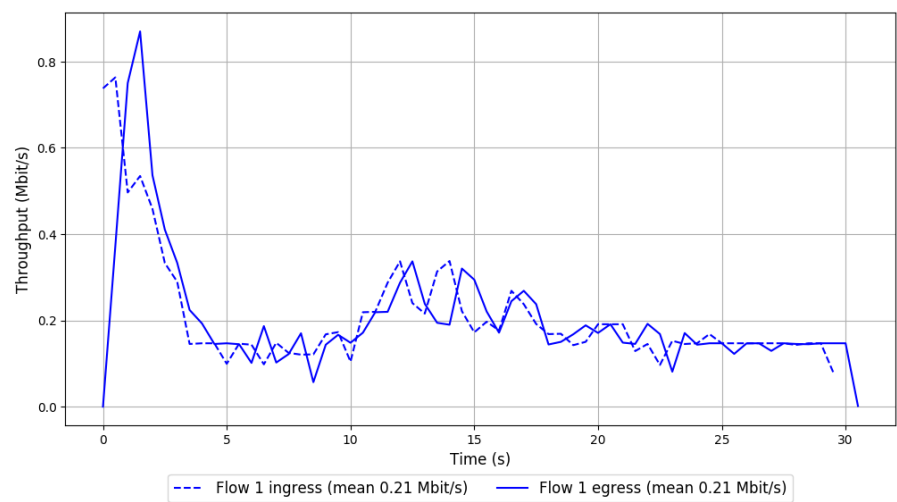


Run 4: Statistics of Sprout

Start at: 2018-08-27 08:32:39
End at: 2018-08-27 08:33:09
Local clock offset: -2.922 ms
Remote clock offset: 0.488 ms

Below is generated by plot.py at 2018-08-27 13:16:10
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 113.329 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 113.329 ms
Loss rate: 0.00%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-08-27 08:57:02

End at: 2018-08-27 08:57:32

Local clock offset: -3.006 ms

Remote clock offset: 0.225 ms

Below is generated by plot.py at 2018-08-27 13:16:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 113.560 ms

Loss rate: 0.00%

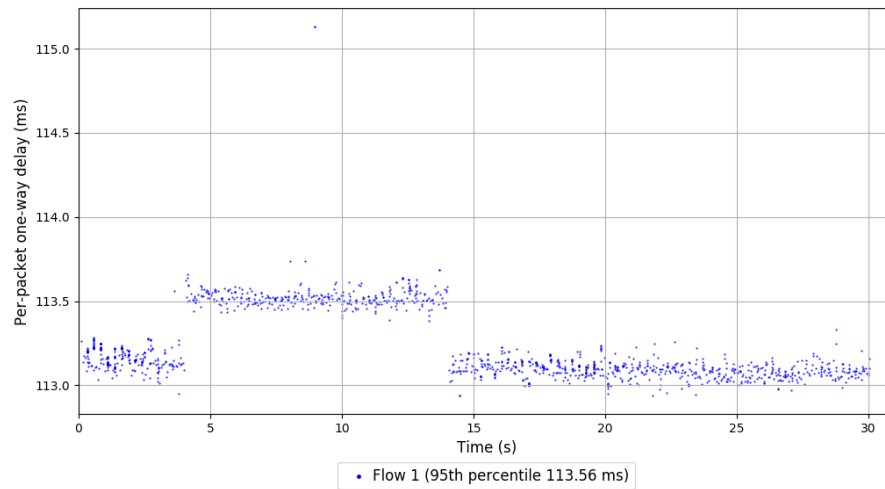
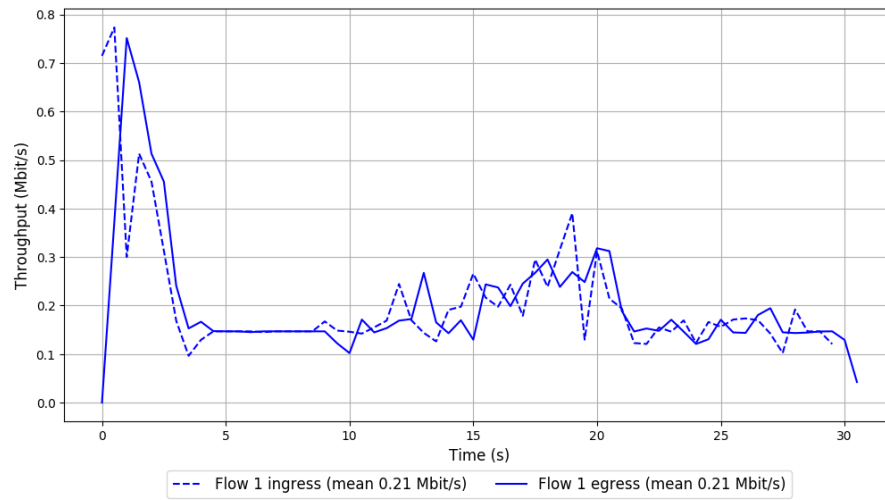
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 113.560 ms

Loss rate: 0.00%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-08-27 09:21:21

End at: 2018-08-27 09:21:51

Local clock offset: -0.172 ms

Remote clock offset: 0.953 ms

Below is generated by plot.py at 2018-08-27 13:16:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.23 Mbit/s

95th percentile per-packet one-way delay: 112.112 ms

Loss rate: 0.00%

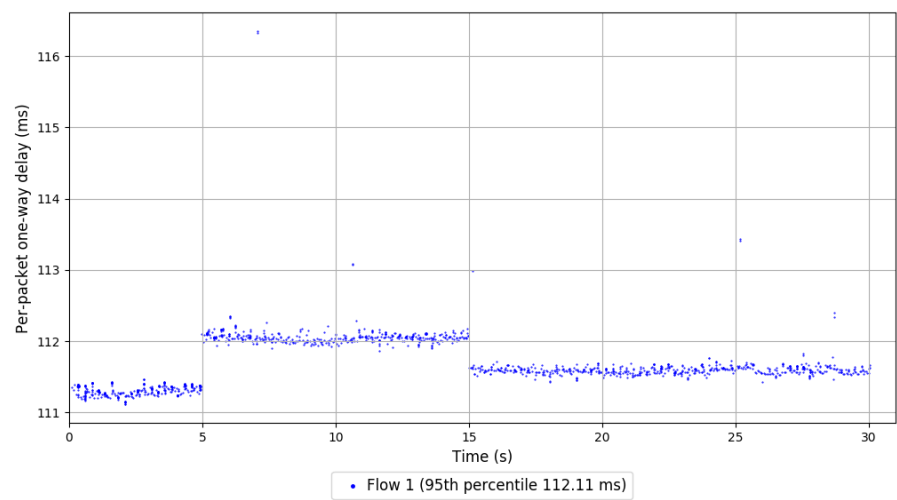
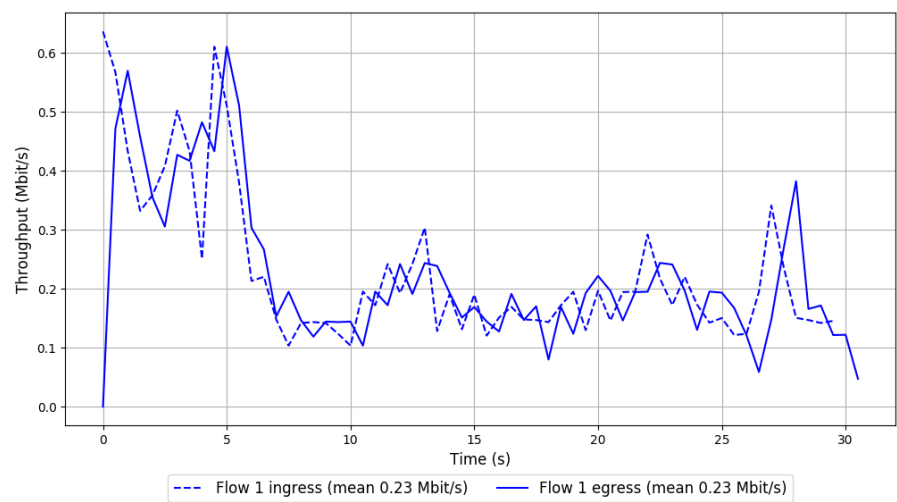
-- Flow 1:

Average throughput: 0.23 Mbit/s

95th percentile per-packet one-way delay: 112.112 ms

Loss rate: 0.00%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-08-27 09:45:29

End at: 2018-08-27 09:45:59

Local clock offset: 2.776 ms

Remote clock offset: 0.835 ms

Below is generated by plot.py at 2018-08-27 13:16:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 109.028 ms

Loss rate: 0.00%

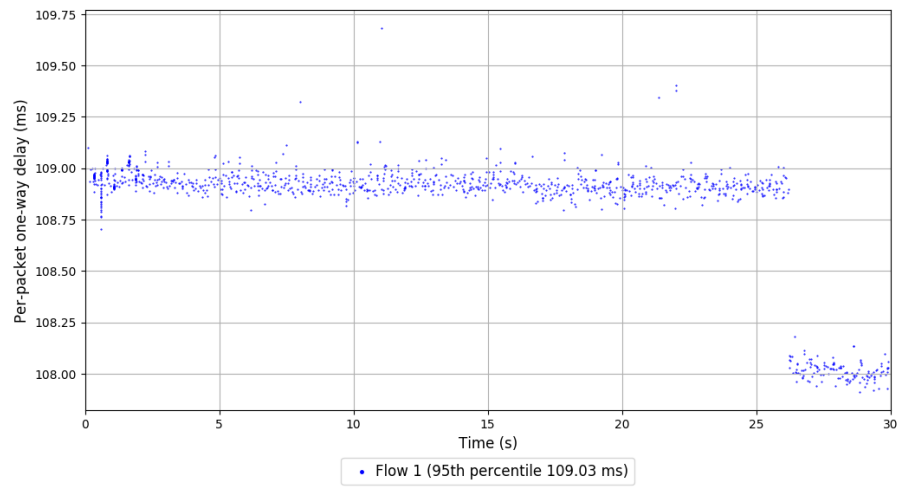
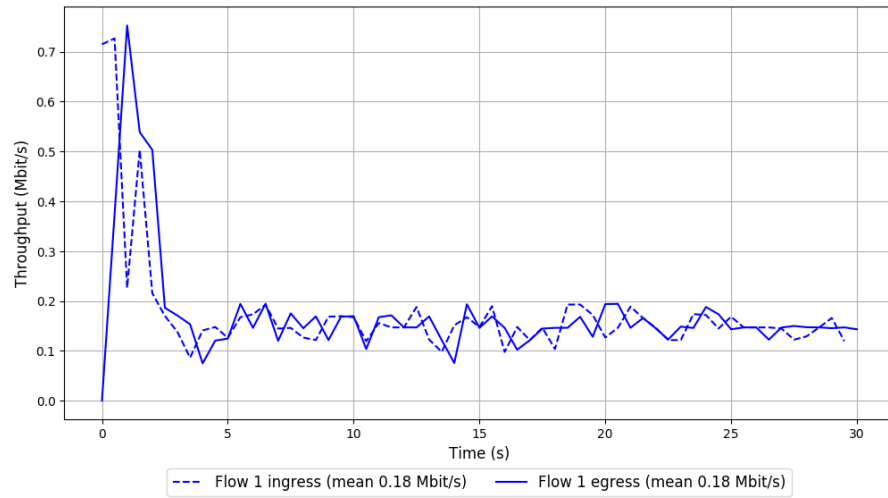
-- Flow 1:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 109.028 ms

Loss rate: 0.00%

Run 7: Report of Sprout — Data Link

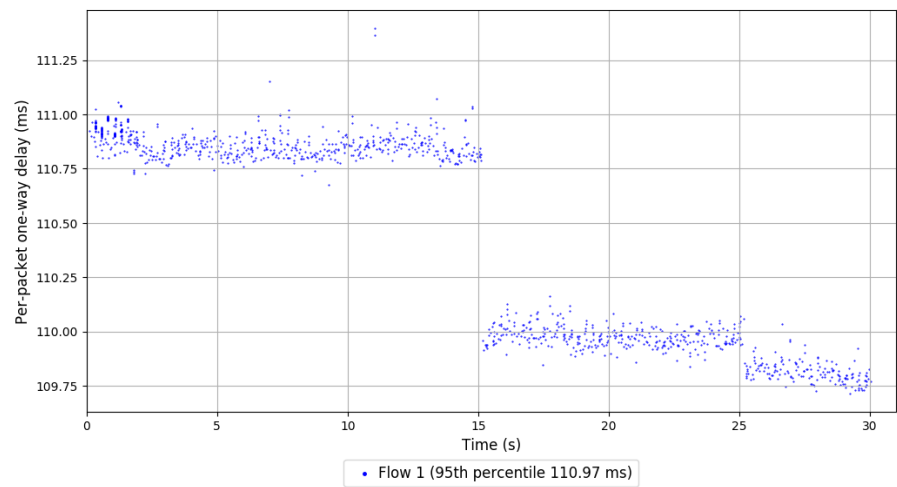
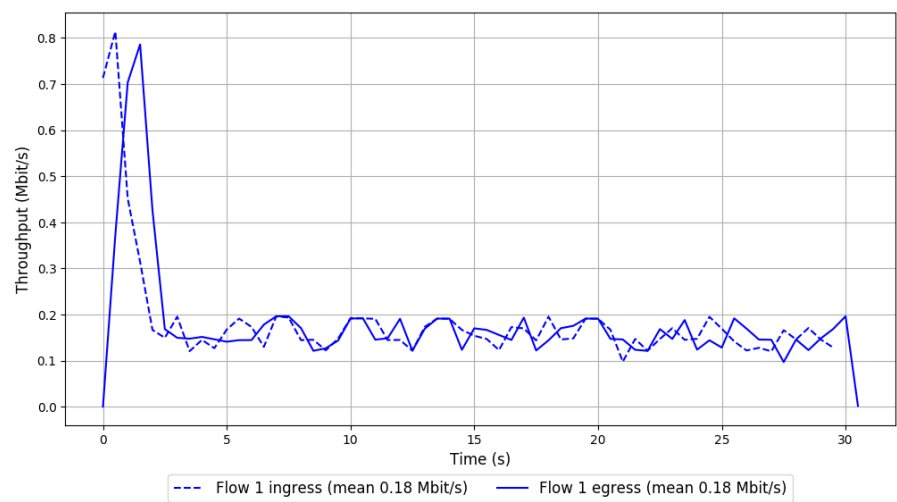


Run 8: Statistics of Sprout

Start at: 2018-08-27 10:10:01
End at: 2018-08-27 10:10:31
Local clock offset: -0.281 ms
Remote clock offset: -1.16 ms

Below is generated by plot.py at 2018-08-27 13:16:10
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 110.970 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 110.970 ms
Loss rate: 0.00%

Run 8: Report of Sprout — Data Link

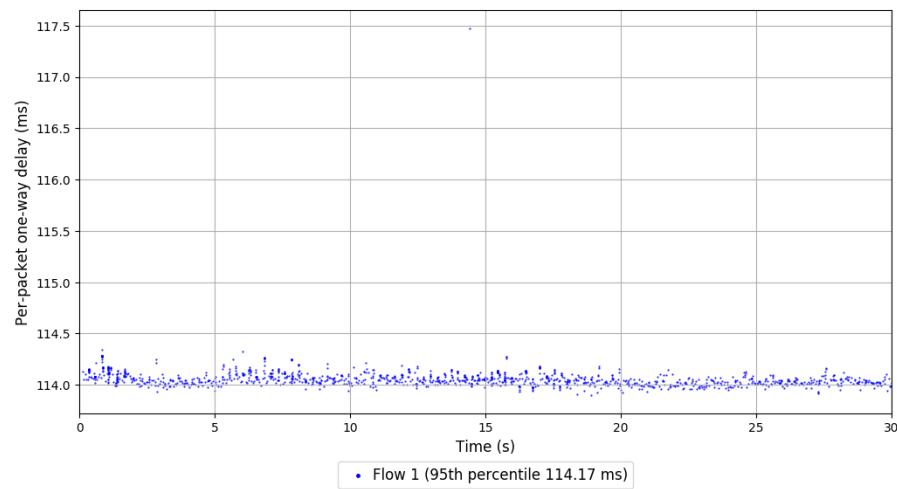
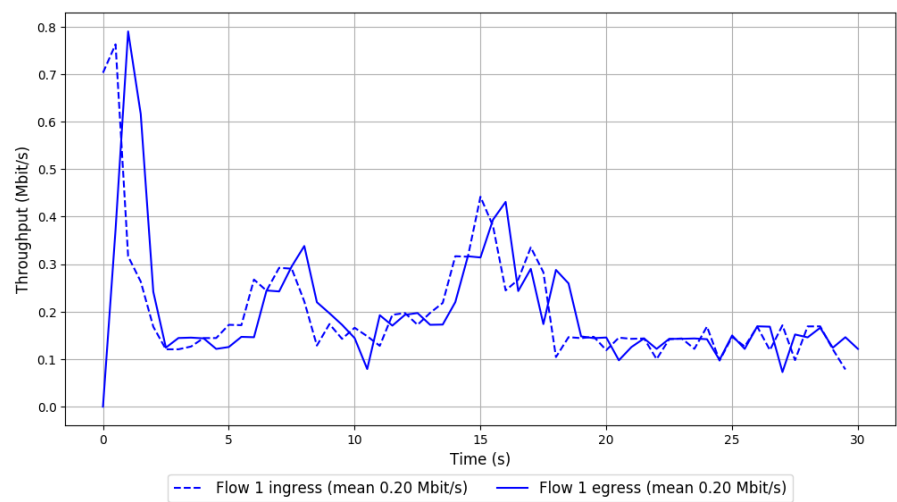


Run 9: Statistics of Sprout

Start at: 2018-08-27 10:34:14
End at: 2018-08-27 10:34:44
Local clock offset: -3.006 ms
Remote clock offset: -0.575 ms

Below is generated by plot.py at 2018-08-27 13:16:10
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.20 Mbit/s
95th percentile per-packet one-way delay: 114.170 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.20 Mbit/s
95th percentile per-packet one-way delay: 114.170 ms
Loss rate: 0.00%

Run 9: Report of Sprout — Data Link

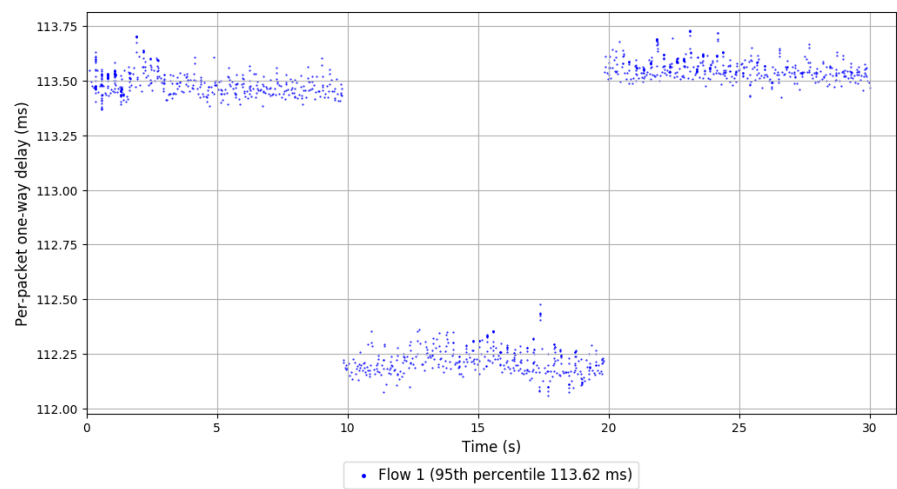
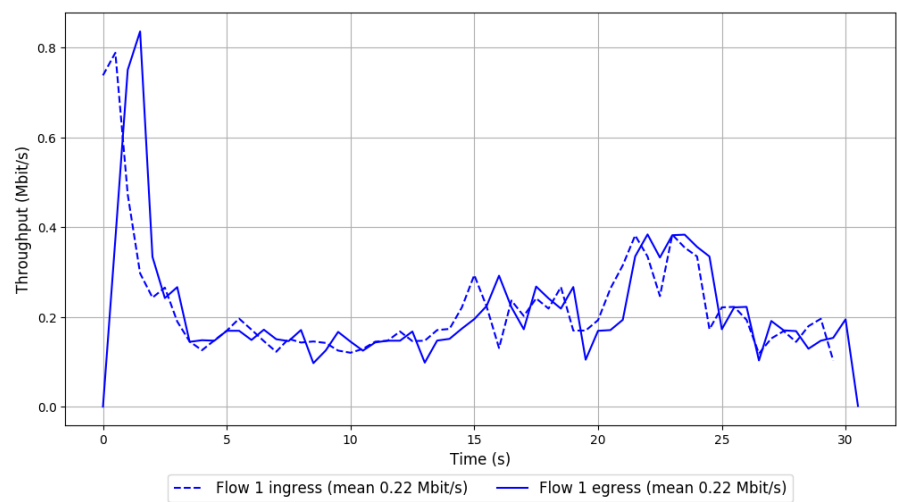


Run 10: Statistics of Sprout

Start at: 2018-08-27 10:58:16
End at: 2018-08-27 10:58:46
Local clock offset: -2.802 ms
Remote clock offset: -1.555 ms

Below is generated by plot.py at 2018-08-27 13:16:10
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 113.621 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 113.621 ms
Loss rate: 0.00%

Run 10: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

Start at: 2018-08-27 07:02:23

End at: 2018-08-27 07:02:53

Local clock offset: -2.979 ms

Remote clock offset: 19.047 ms

Below is generated by plot.py at 2018-08-27 13:16:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 223.14 Mbit/s

95th percentile per-packet one-way delay: 113.321 ms

Loss rate: 0.00%

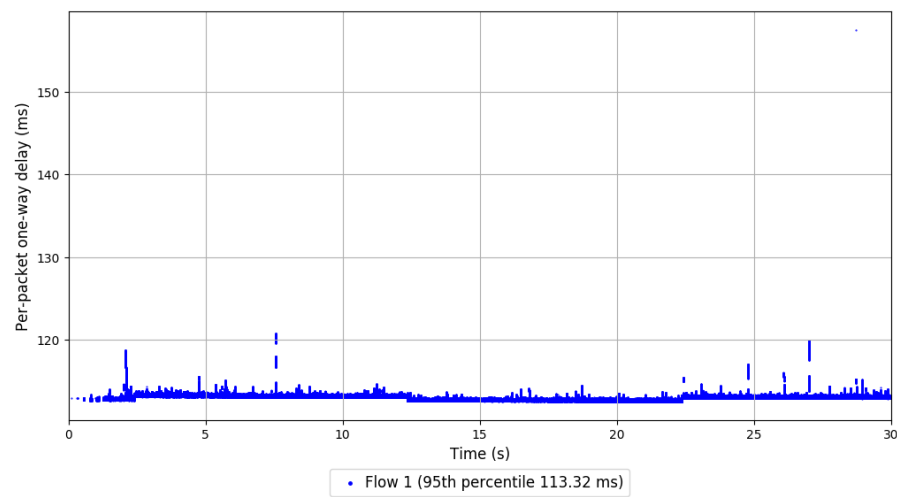
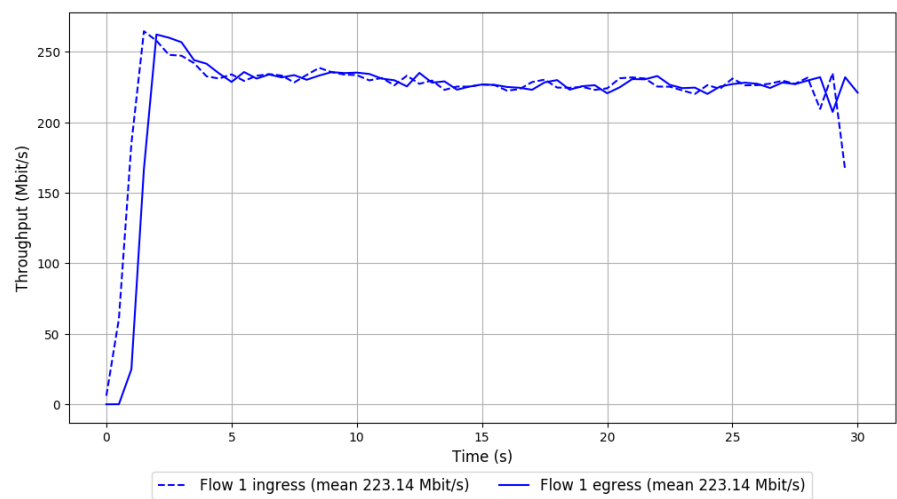
-- Flow 1:

Average throughput: 223.14 Mbit/s

95th percentile per-packet one-way delay: 113.321 ms

Loss rate: 0.00%

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



Run 2: Statistics of TaoVA-100x

Start at: 2018-08-27 07:26:26

End at: 2018-08-27 07:26:56

Local clock offset: -2.793 ms

Remote clock offset: 6.906 ms

Below is generated by plot.py at 2018-08-27 13:16:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 209.47 Mbit/s

95th percentile per-packet one-way delay: 112.196 ms

Loss rate: 0.00%

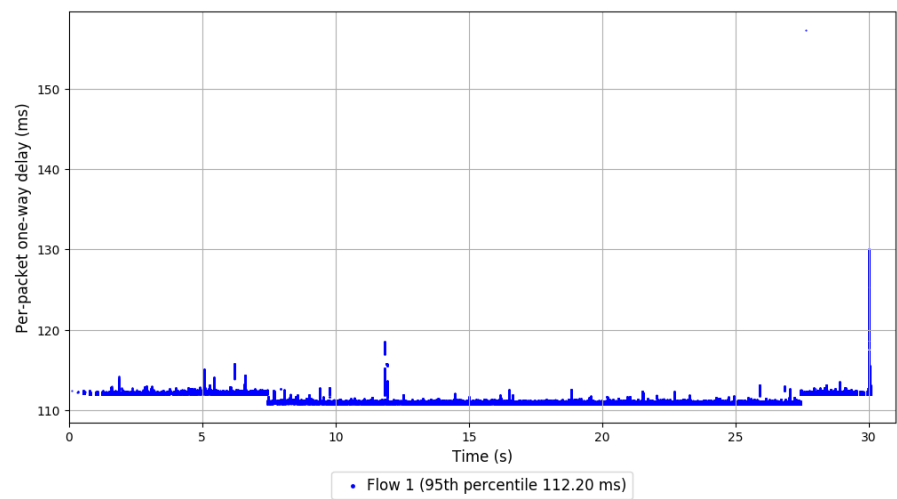
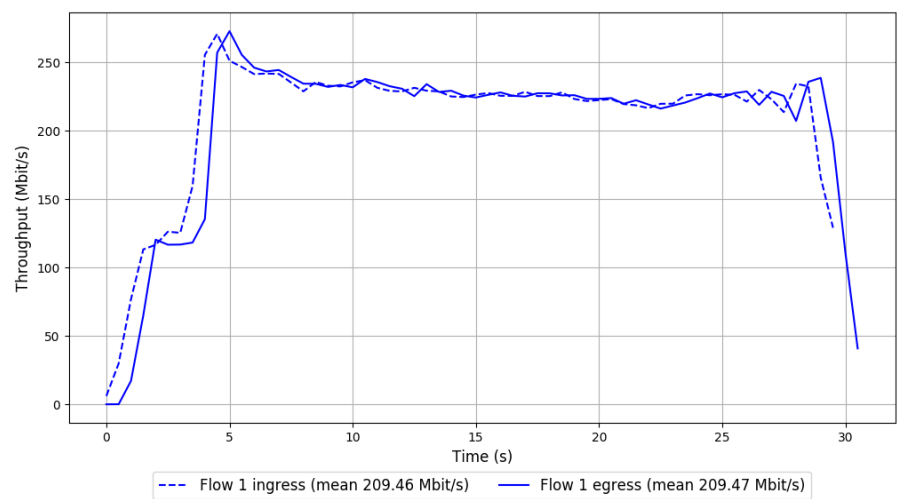
-- Flow 1:

Average throughput: 209.47 Mbit/s

95th percentile per-packet one-way delay: 112.196 ms

Loss rate: 0.00%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-08-27 07:50:57

End at: 2018-08-27 07:51:27

Local clock offset: -2.881 ms

Remote clock offset: 2.638 ms

Below is generated by plot.py at 2018-08-27 13:16:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 154.72 Mbit/s

95th percentile per-packet one-way delay: 114.393 ms

Loss rate: 0.00%

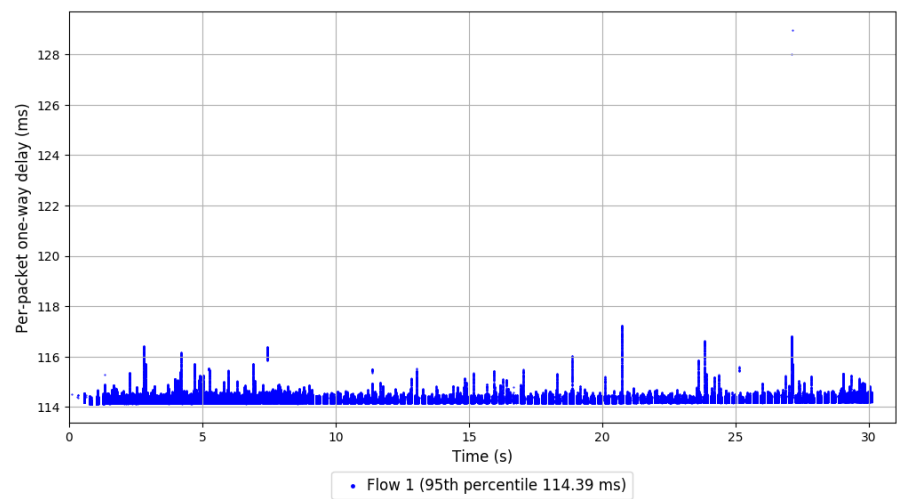
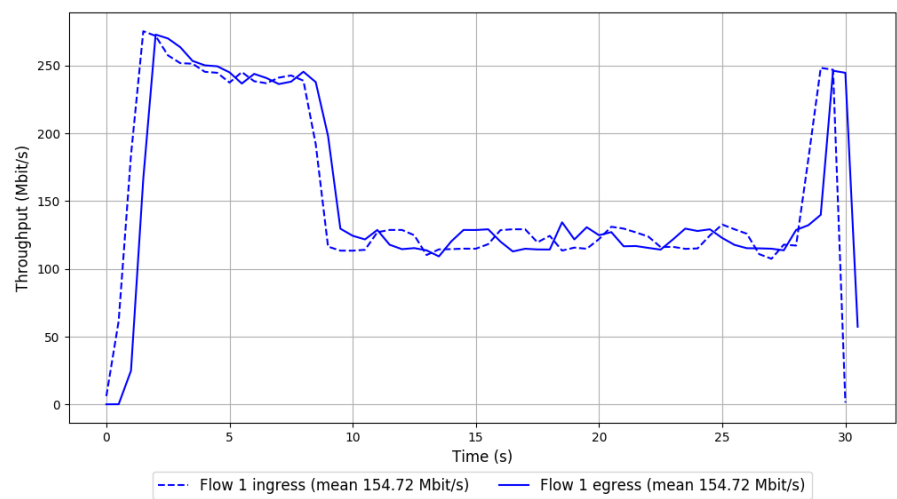
-- Flow 1:

Average throughput: 154.72 Mbit/s

95th percentile per-packet one-way delay: 114.393 ms

Loss rate: 0.00%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-08-27 08:15:07

End at: 2018-08-27 08:15:37

Local clock offset: -0.087 ms

Remote clock offset: 1.553 ms

Below is generated by plot.py at 2018-08-27 13:16:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 182.87 Mbit/s

95th percentile per-packet one-way delay: 112.085 ms

Loss rate: 0.00%

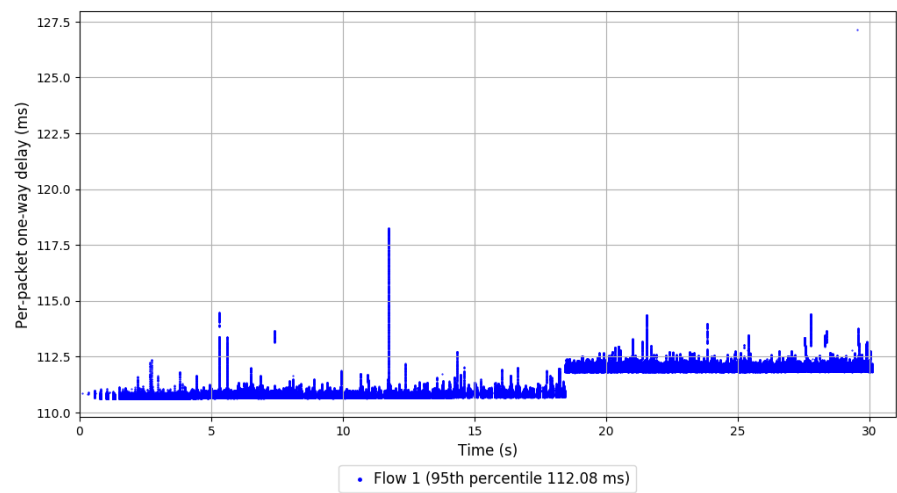
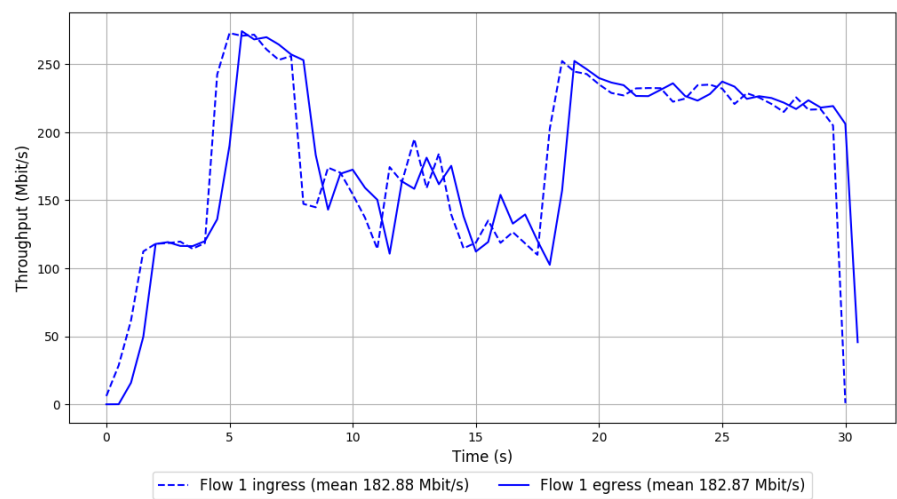
-- Flow 1:

Average throughput: 182.87 Mbit/s

95th percentile per-packet one-way delay: 112.085 ms

Loss rate: 0.00%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-08-27 08:39:25

End at: 2018-08-27 08:39:55

Local clock offset: -0.154 ms

Remote clock offset: 0.494 ms

Below is generated by plot.py at 2018-08-27 13:16:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 218.73 Mbit/s

95th percentile per-packet one-way delay: 108.878 ms

Loss rate: 0.00%

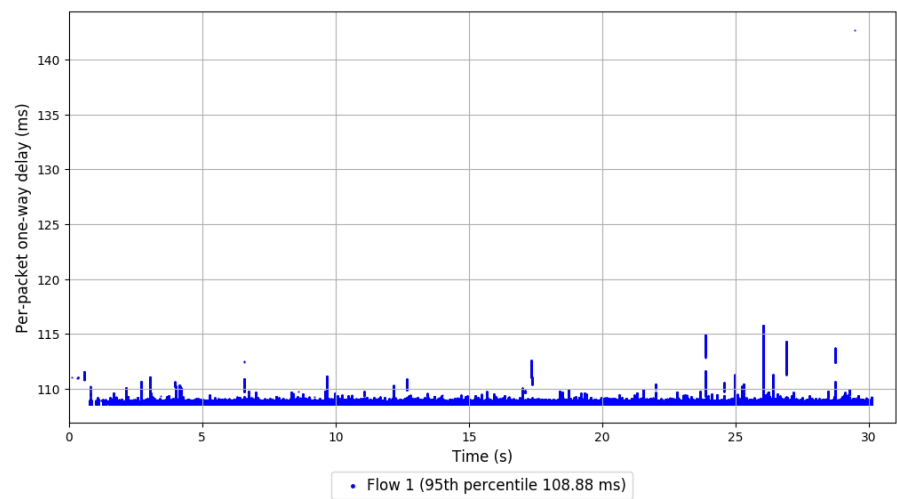
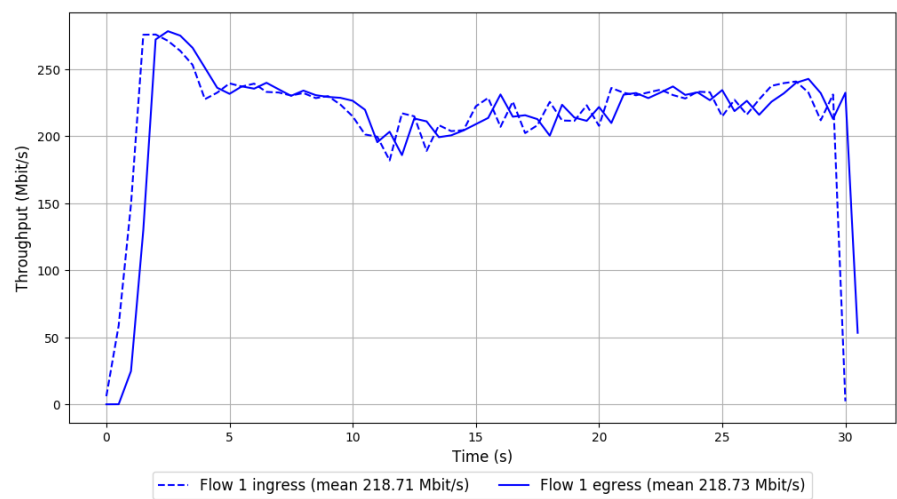
-- Flow 1:

Average throughput: 218.73 Mbit/s

95th percentile per-packet one-way delay: 108.878 ms

Loss rate: 0.00%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-08-27 09:03:52

End at: 2018-08-27 09:04:22

Local clock offset: -0.204 ms

Remote clock offset: 0.068 ms

Below is generated by plot.py at 2018-08-27 13:21:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 211.60 Mbit/s

95th percentile per-packet one-way delay: 110.743 ms

Loss rate: 0.00%

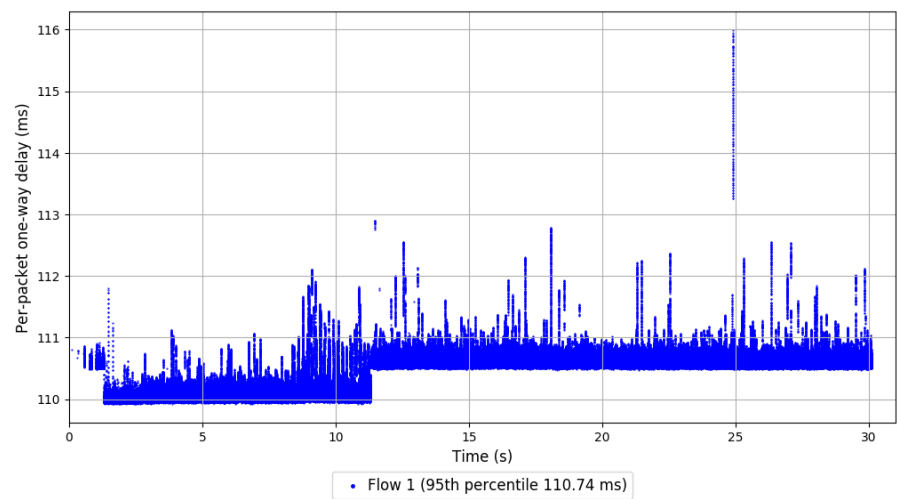
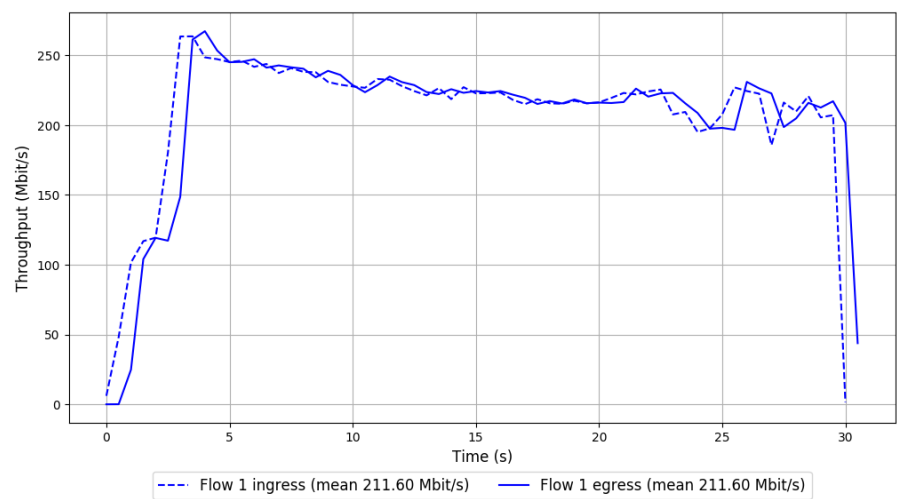
-- Flow 1:

Average throughput: 211.60 Mbit/s

95th percentile per-packet one-way delay: 110.743 ms

Loss rate: 0.00%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-08-27 09:28:02

End at: 2018-08-27 09:28:32

Local clock offset: -0.146 ms

Remote clock offset: 0.469 ms

Below is generated by plot.py at 2018-08-27 13:22:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 221.30 Mbit/s

95th percentile per-packet one-way delay: 111.535 ms

Loss rate: 0.00%

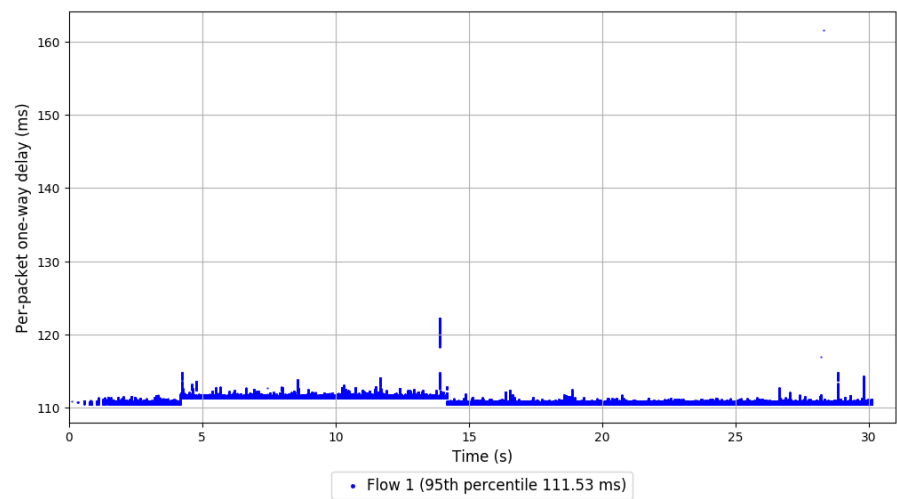
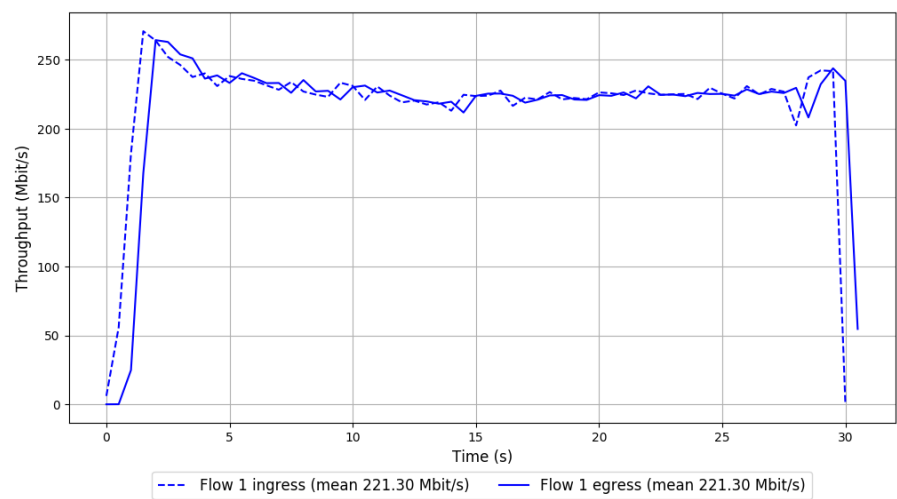
-- Flow 1:

Average throughput: 221.30 Mbit/s

95th percentile per-packet one-way delay: 111.535 ms

Loss rate: 0.00%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-08-27 09:52:13

End at: 2018-08-27 09:52:43

Local clock offset: -2.854 ms

Remote clock offset: 1.096 ms

Below is generated by plot.py at 2018-08-27 13:23:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 227.18 Mbit/s

95th percentile per-packet one-way delay: 114.197 ms

Loss rate: 0.00%

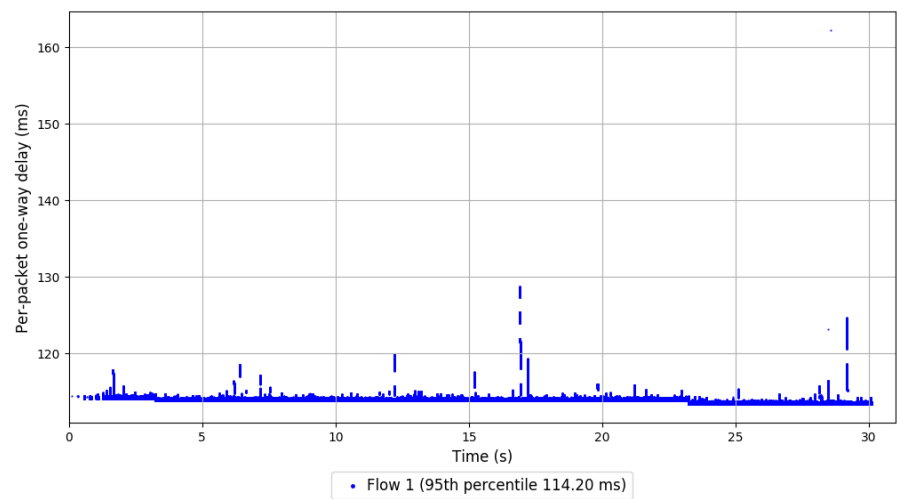
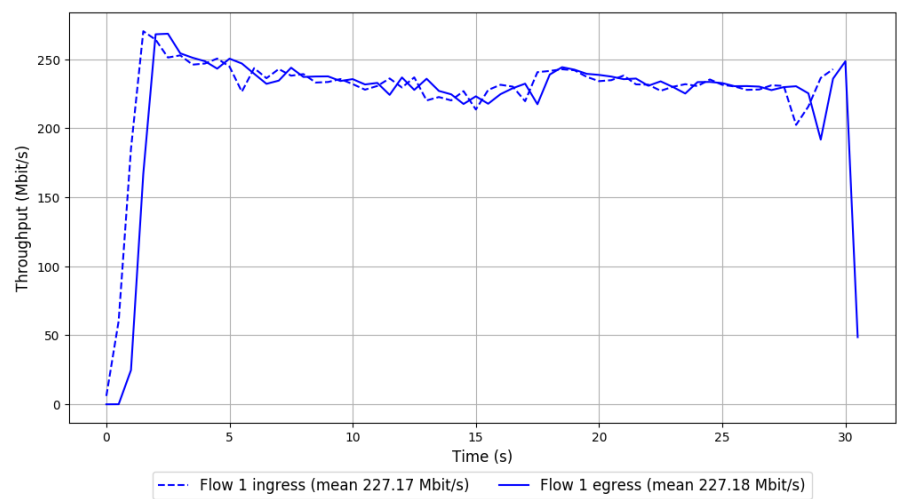
-- Flow 1:

Average throughput: 227.18 Mbit/s

95th percentile per-packet one-way delay: 114.197 ms

Loss rate: 0.00%

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

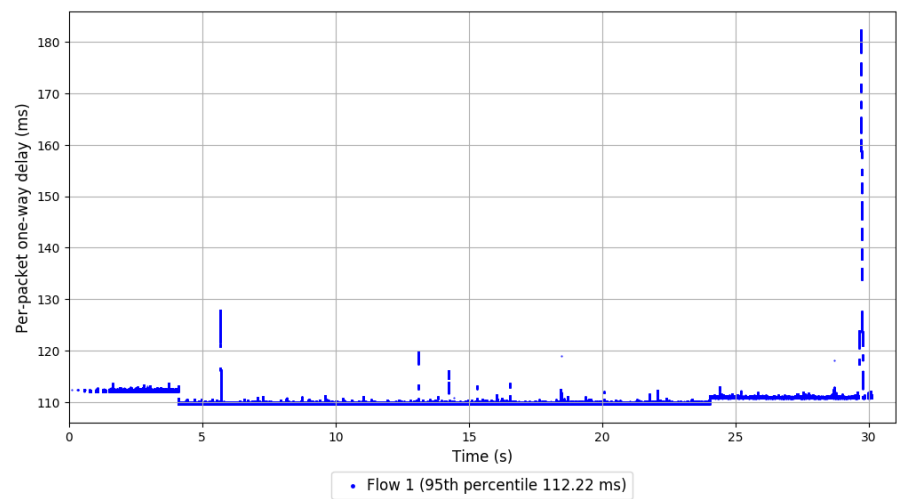
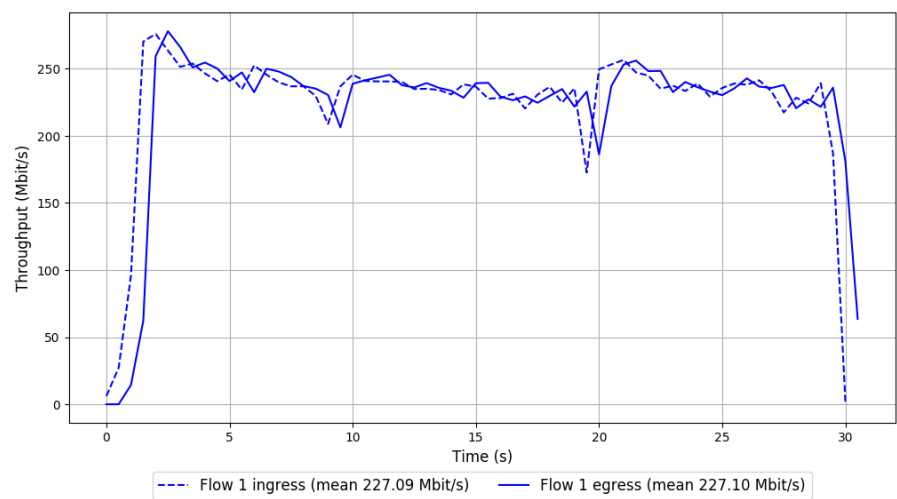


Run 9: Statistics of TaoVA-100x

Start at: 2018-08-27 10:16:52
End at: 2018-08-27 10:17:22
Local clock offset: -0.204 ms
Remote clock offset: -0.385 ms

Below is generated by plot.py at 2018-08-27 13:23:06
Datalink statistics
-- Total of 1 flow:
Average throughput: 227.10 Mbit/s
95th percentile per-packet one-way delay: 112.217 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 227.10 Mbit/s
95th percentile per-packet one-way delay: 112.217 ms
Loss rate: 0.00%

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

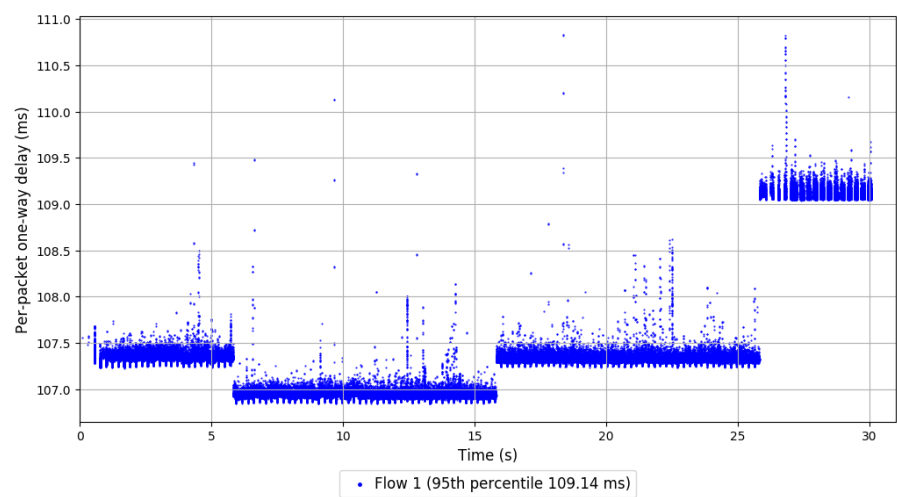
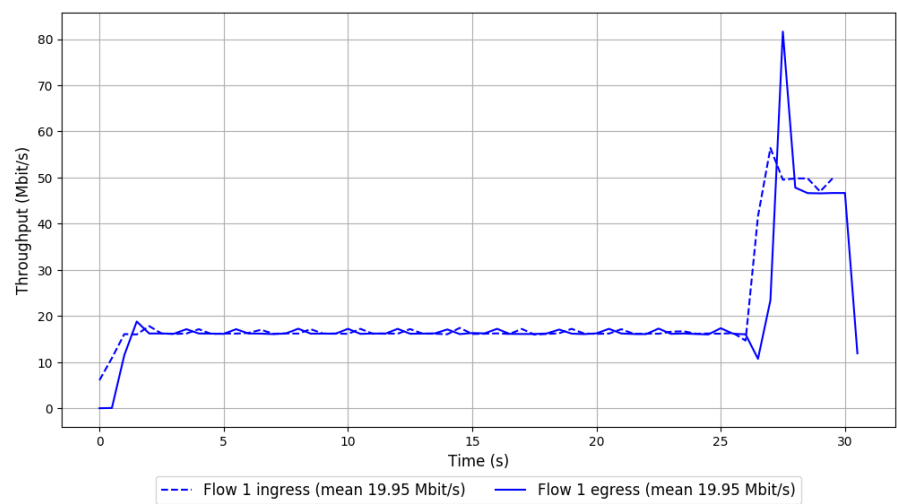


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-08-27 10:40:58
End at: 2018-08-27 10:41:28
Local clock offset: 2.701 ms
Remote clock offset: -0.685 ms

# Below is generated by plot.py at 2018-08-27 13:23:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 19.95 Mbit/s
95th percentile per-packet one-way delay: 109.145 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 19.95 Mbit/s
95th percentile per-packet one-way delay: 109.145 ms
Loss rate: 0.00%
```

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

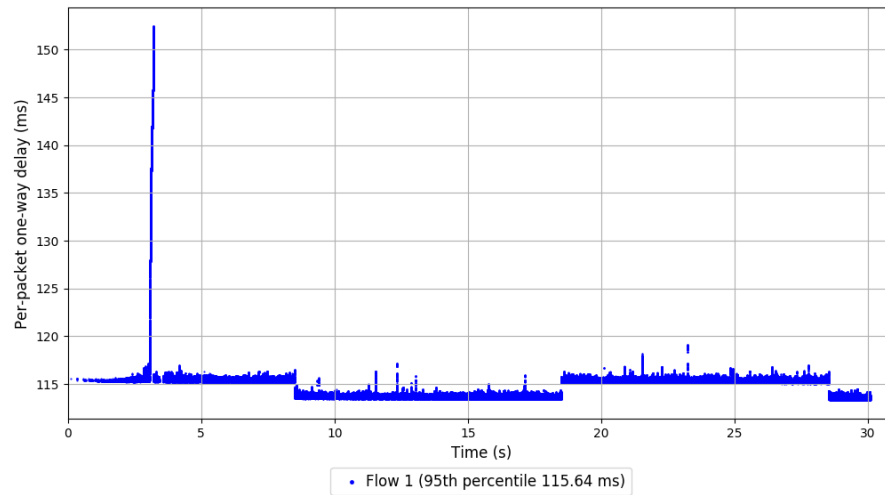
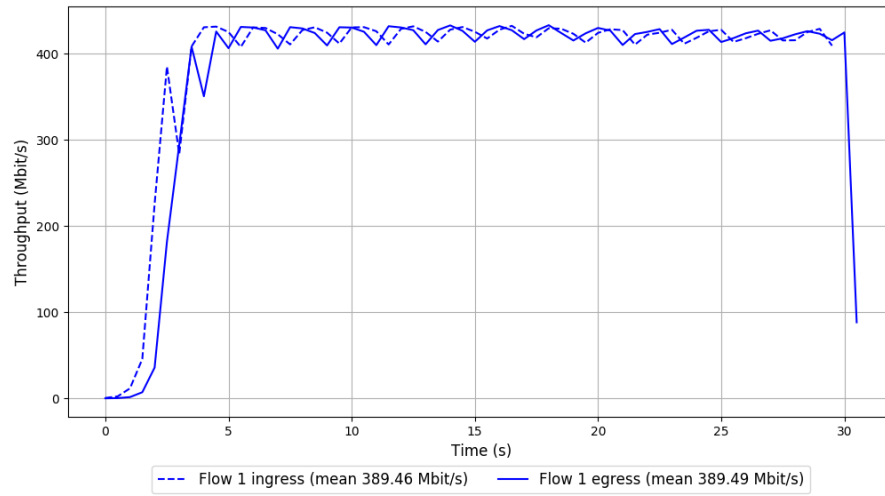


Run 1: Statistics of TCP Vegas

Start at: 2018-08-27 06:59:47
End at: 2018-08-27 07:00:17
Local clock offset: -3.044 ms
Remote clock offset: 17.907 ms

Below is generated by plot.py at 2018-08-27 13:23:17
Datalink statistics
-- Total of 1 flow:
Average throughput: 389.49 Mbit/s
95th percentile per-packet one-way delay: 115.644 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 389.49 Mbit/s
95th percentile per-packet one-way delay: 115.644 ms
Loss rate: 0.00%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-08-27 07:23:52

End at: 2018-08-27 07:24:22

Local clock offset: -0.137 ms

Remote clock offset: 6.871 ms

Below is generated by plot.py at 2018-08-27 13:23:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 348.21 Mbit/s

95th percentile per-packet one-way delay: 111.387 ms

Loss rate: 0.00%

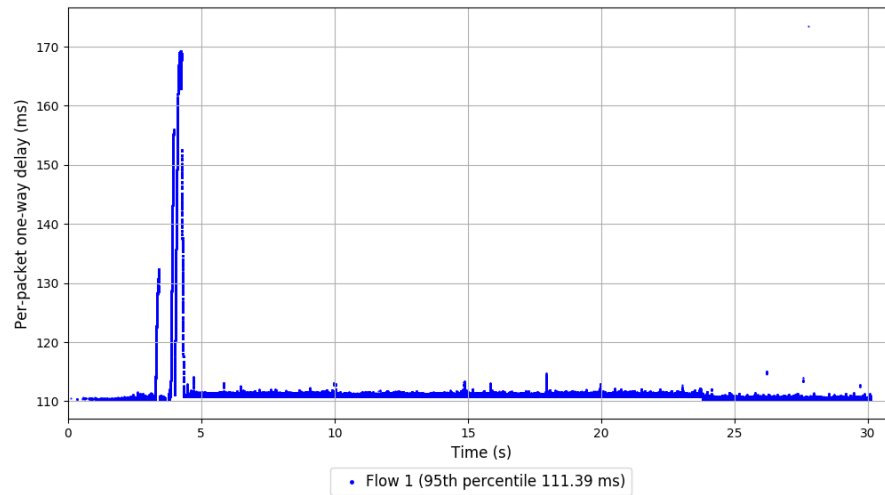
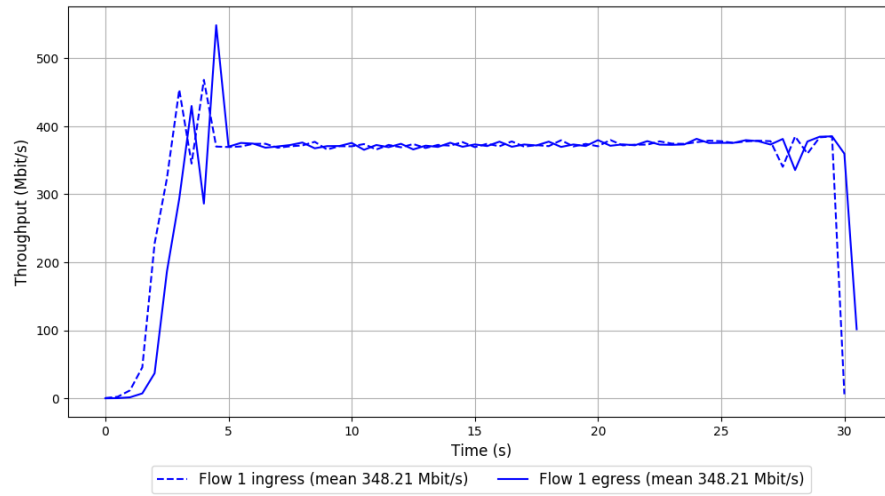
-- Flow 1:

Average throughput: 348.21 Mbit/s

95th percentile per-packet one-way delay: 111.387 ms

Loss rate: 0.00%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-08-27 07:48:21

End at: 2018-08-27 07:48:51

Local clock offset: 2.686 ms

Remote clock offset: 3.241 ms

Below is generated by plot.py at 2018-08-27 13:23:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 366.64 Mbit/s

95th percentile per-packet one-way delay: 108.700 ms

Loss rate: 0.00%

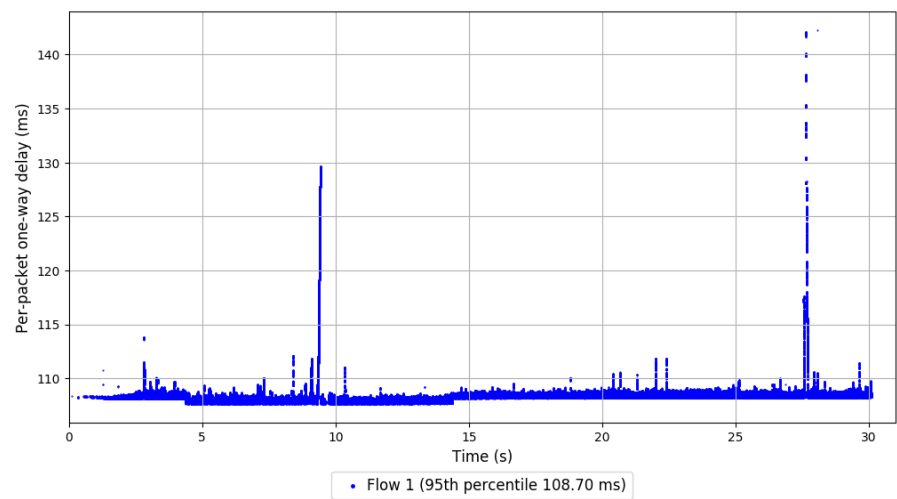
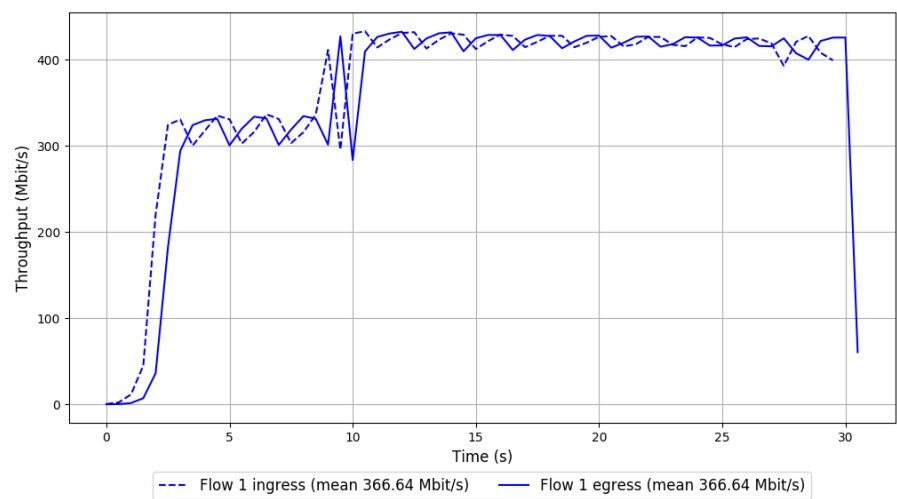
-- Flow 1:

Average throughput: 366.64 Mbit/s

95th percentile per-packet one-way delay: 108.700 ms

Loss rate: 0.00%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-08-27 08:12:33

End at: 2018-08-27 08:13:03

Local clock offset: -0.1 ms

Remote clock offset: 1.98 ms

Below is generated by plot.py at 2018-08-27 13:23:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 344.99 Mbit/s

95th percentile per-packet one-way delay: 111.240 ms

Loss rate: 0.00%

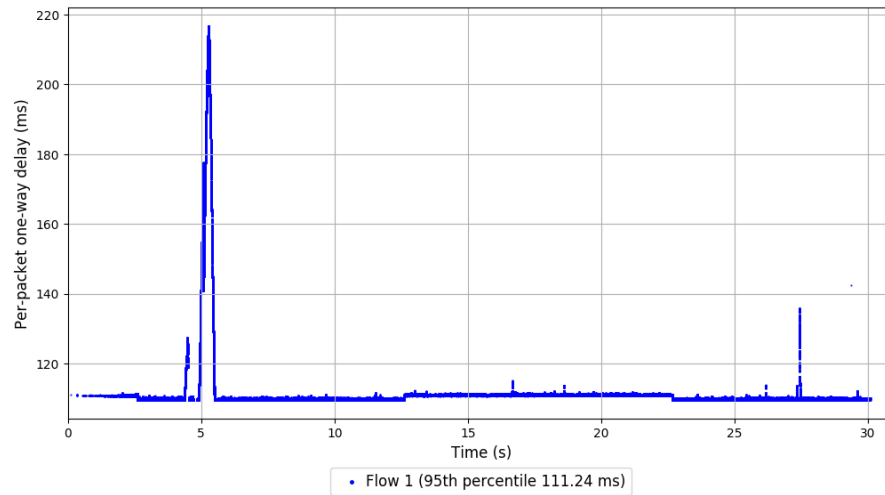
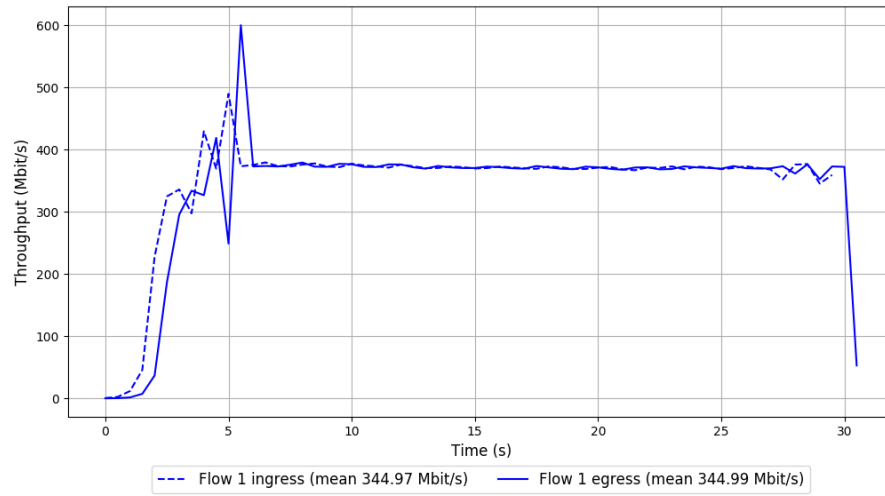
-- Flow 1:

Average throughput: 344.99 Mbit/s

95th percentile per-packet one-way delay: 111.240 ms

Loss rate: 0.00%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-08-27 08:36:49

End at: 2018-08-27 08:37:19

Local clock offset: -2.892 ms

Remote clock offset: 1.087 ms

Below is generated by plot.py at 2018-08-27 13:28:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 389.79 Mbit/s

95th percentile per-packet one-way delay: 114.838 ms

Loss rate: 0.00%

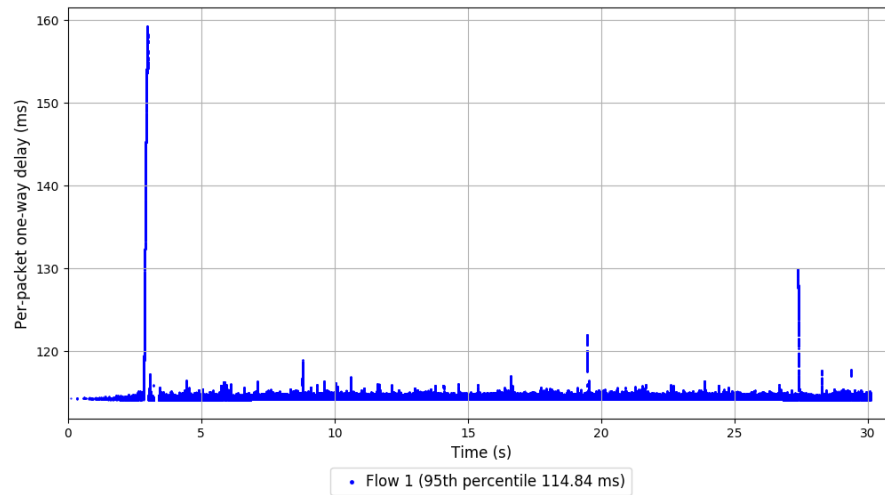
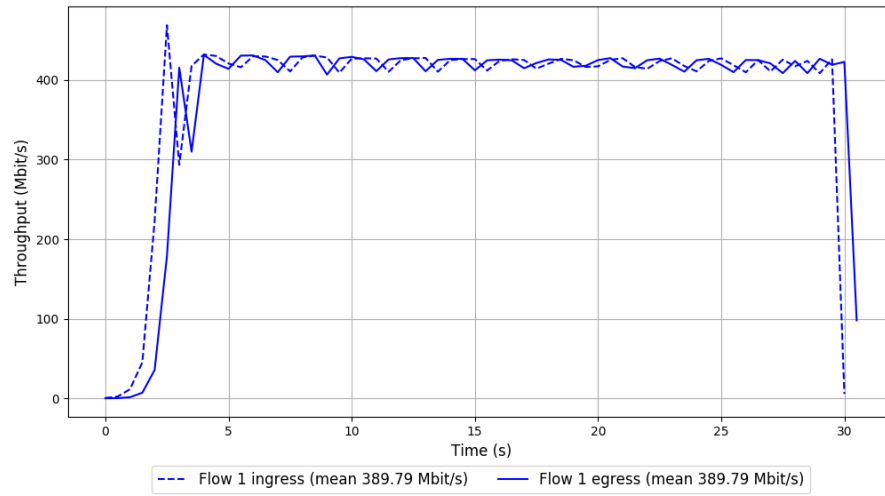
-- Flow 1:

Average throughput: 389.79 Mbit/s

95th percentile per-packet one-way delay: 114.838 ms

Loss rate: 0.00%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-08-27 09:01:11

End at: 2018-08-27 09:01:41

Local clock offset: -0.167 ms

Remote clock offset: 0.112 ms

Below is generated by plot.py at 2018-08-27 13:31:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 475.21 Mbit/s

95th percentile per-packet one-way delay: 112.284 ms

Loss rate: 0.00%

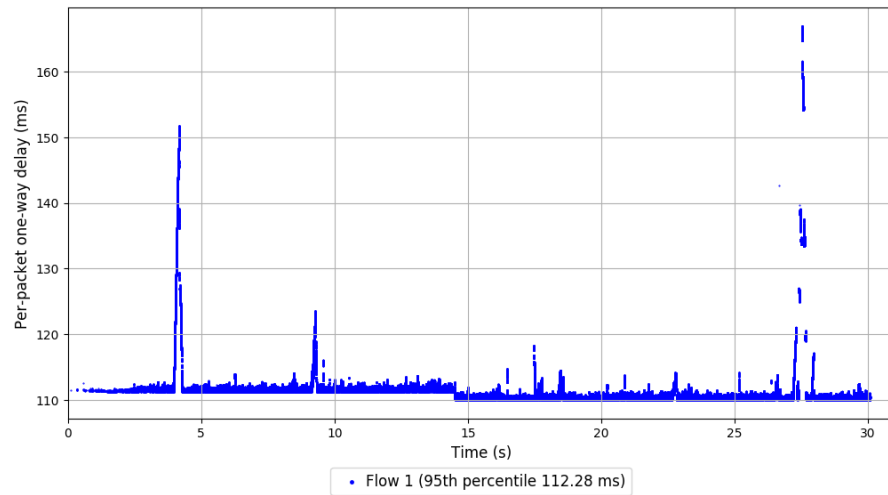
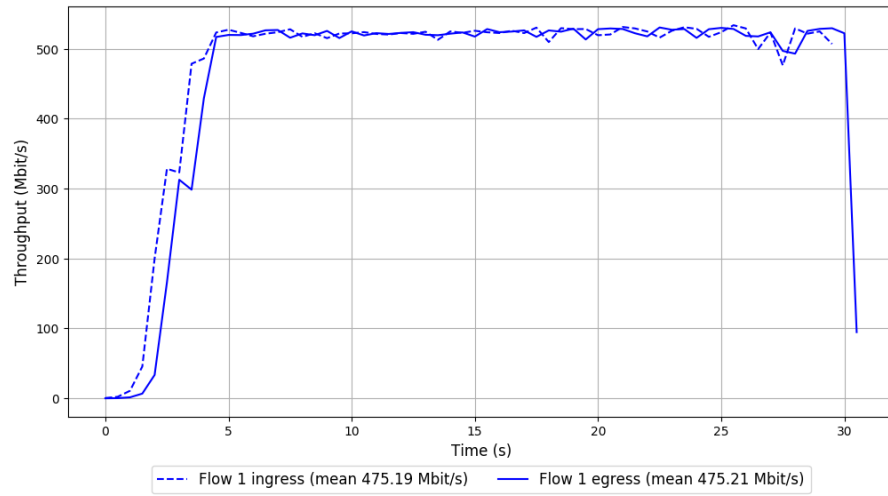
-- Flow 1:

Average throughput: 475.21 Mbit/s

95th percentile per-packet one-way delay: 112.284 ms

Loss rate: 0.00%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-08-27 09:25:26

End at: 2018-08-27 09:25:56

Local clock offset: -3.137 ms

Remote clock offset: 0.268 ms

Below is generated by plot.py at 2018-08-27 13:31:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 378.01 Mbit/s

95th percentile per-packet one-way delay: 114.777 ms

Loss rate: 0.00%

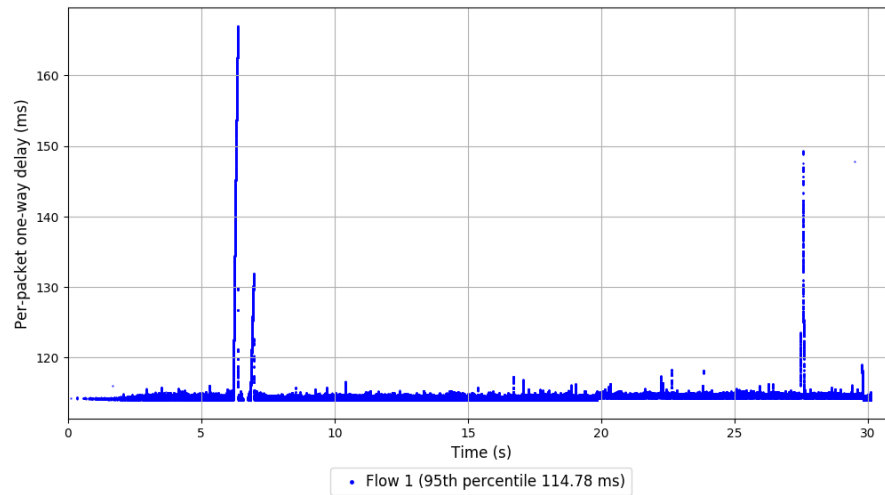
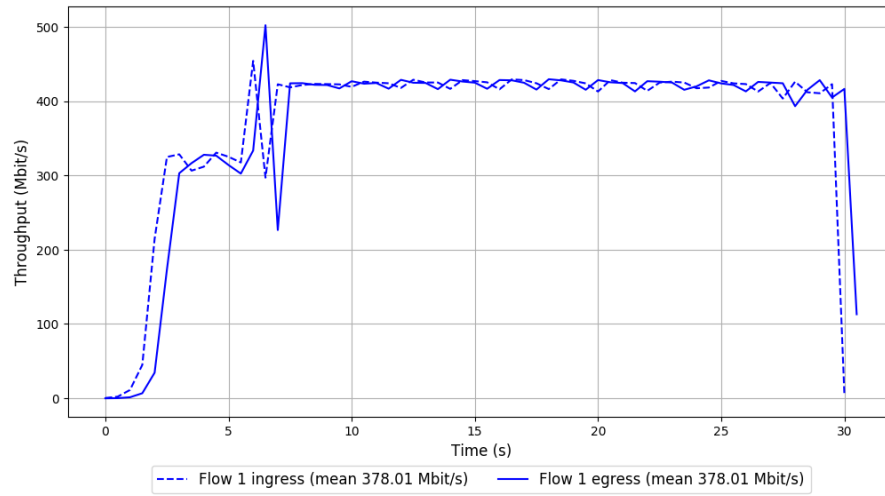
-- Flow 1:

Average throughput: 378.01 Mbit/s

95th percentile per-packet one-way delay: 114.777 ms

Loss rate: 0.00%

Run 7: Report of TCP Vegas — Data Link

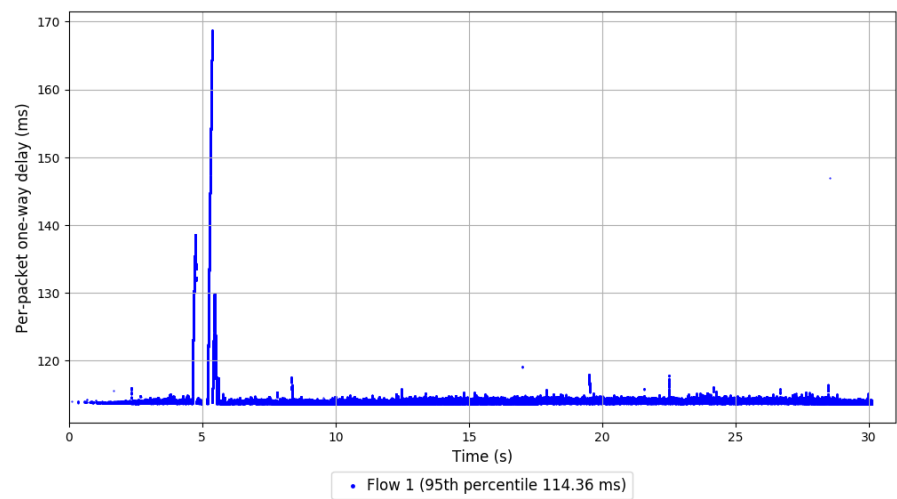
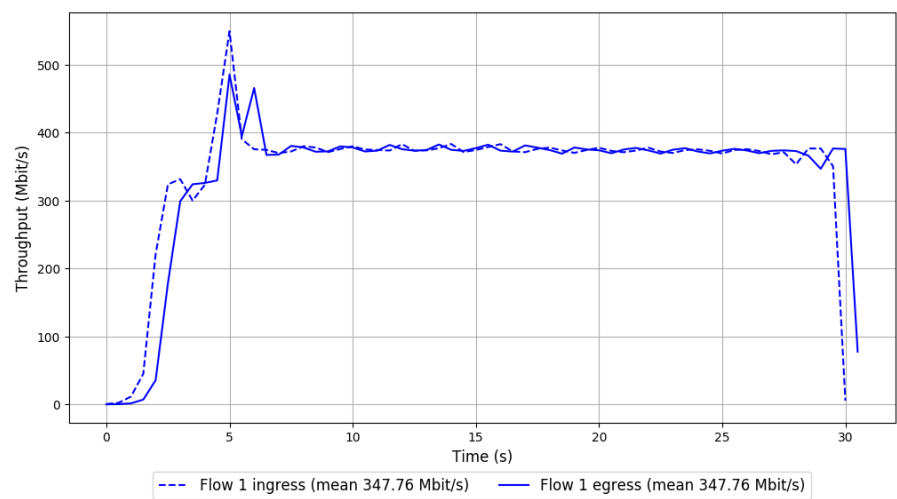


Run 8: Statistics of TCP Vegas

Start at: 2018-08-27 09:49:38
End at: 2018-08-27 09:50:08
Local clock offset: -2.927 ms
Remote clock offset: 1.053 ms

Below is generated by plot.py at 2018-08-27 13:31:16
Datalink statistics
-- Total of 1 flow:
Average throughput: 347.76 Mbit/s
95th percentile per-packet one-way delay: 114.364 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 347.76 Mbit/s
95th percentile per-packet one-way delay: 114.364 ms
Loss rate: 0.00%

Run 8: Report of TCP Vegas — Data Link

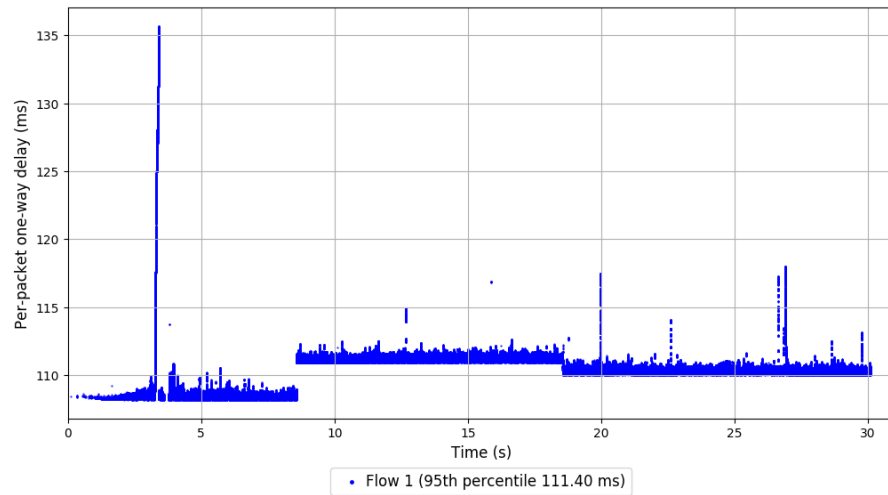
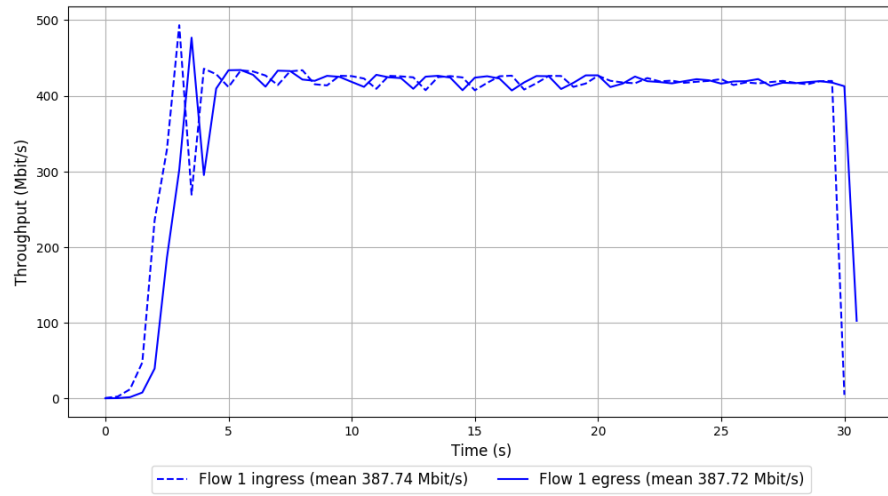


Run 9: Statistics of TCP Vegas

Start at: 2018-08-27 10:14:15
End at: 2018-08-27 10:14:45
Local clock offset: 0.005 ms
Remote clock offset: -0.408 ms

Below is generated by plot.py at 2018-08-27 13:31:16
Datalink statistics
-- Total of 1 flow:
Average throughput: 387.72 Mbit/s
95th percentile per-packet one-way delay: 111.402 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 387.72 Mbit/s
95th percentile per-packet one-way delay: 111.402 ms
Loss rate: 0.00%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-08-27 10:38:25

End at: 2018-08-27 10:38:55

Local clock offset: -0.247 ms

Remote clock offset: -0.575 ms

Below is generated by plot.py at 2018-08-27 13:31:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 317.35 Mbit/s

95th percentile per-packet one-way delay: 110.560 ms

Loss rate: 0.00%

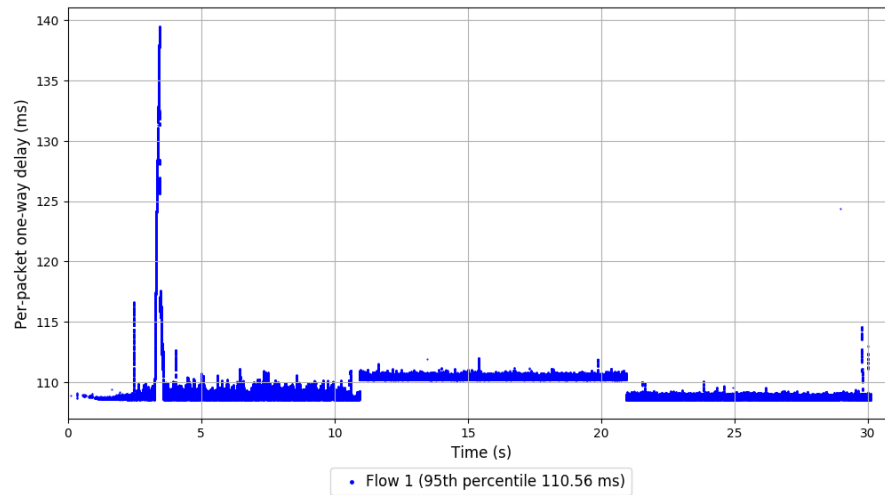
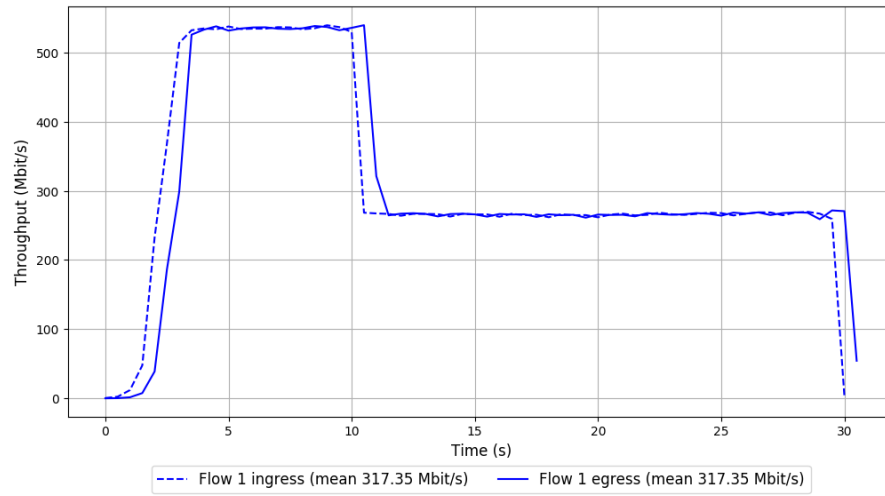
-- Flow 1:

Average throughput: 317.35 Mbit/s

95th percentile per-packet one-way delay: 110.560 ms

Loss rate: 0.00%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-08-27 07:09:29

End at: 2018-08-27 07:09:59

Local clock offset: -0.101 ms

Remote clock offset: 10.72 ms

Below is generated by plot.py at 2018-08-27 13:31:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.72 Mbit/s

95th percentile per-packet one-way delay: 181.735 ms

Loss rate: 0.39%

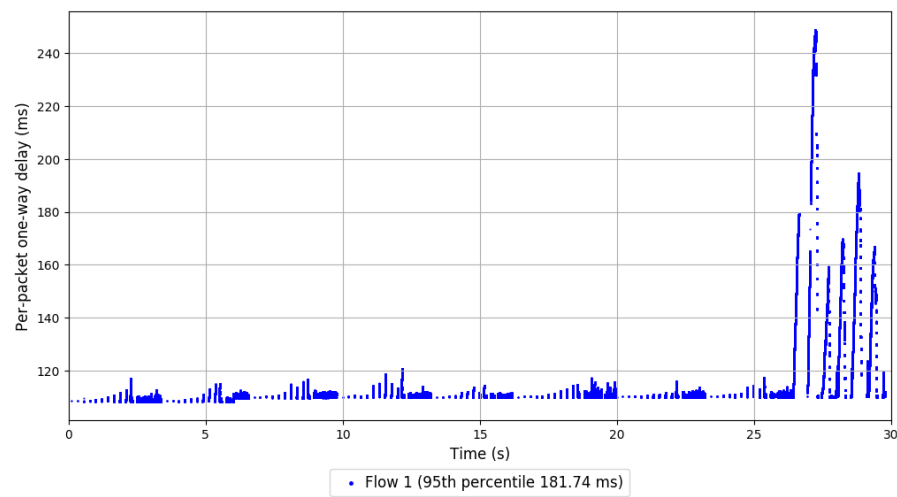
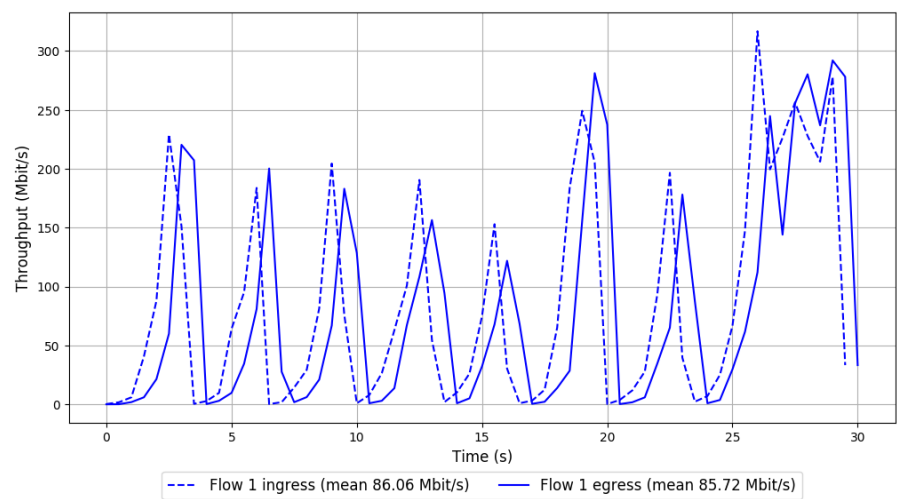
-- Flow 1:

Average throughput: 85.72 Mbit/s

95th percentile per-packet one-way delay: 181.735 ms

Loss rate: 0.39%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-08-27 07:33:27

End at: 2018-08-27 07:33:57

Local clock offset: -2.906 ms

Remote clock offset: 8.266 ms

Below is generated by plot.py at 2018-08-27 13:31:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 196.58 Mbit/s

95th percentile per-packet one-way delay: 283.039 ms

Loss rate: 11.40%

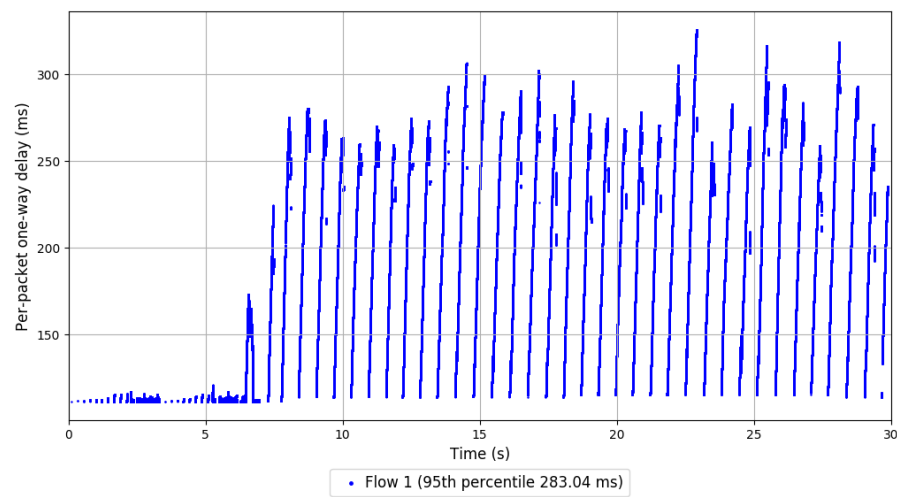
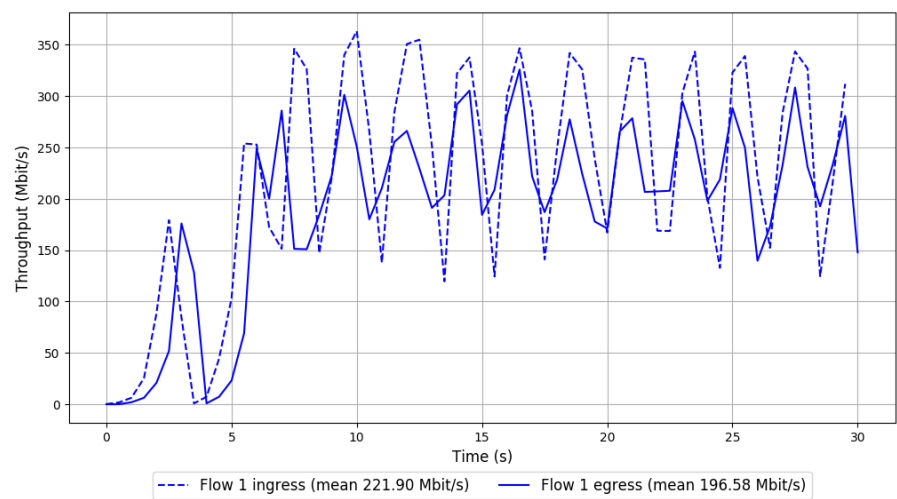
-- Flow 1:

Average throughput: 196.58 Mbit/s

95th percentile per-packet one-way delay: 283.039 ms

Loss rate: 11.40%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-08-27 07:57:56

End at: 2018-08-27 07:58:26

Local clock offset: -2.955 ms

Remote clock offset: 1.236 ms

Below is generated by plot.py at 2018-08-27 13:31:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 115.26 Mbit/s

95th percentile per-packet one-way delay: 251.995 ms

Loss rate: 7.42%

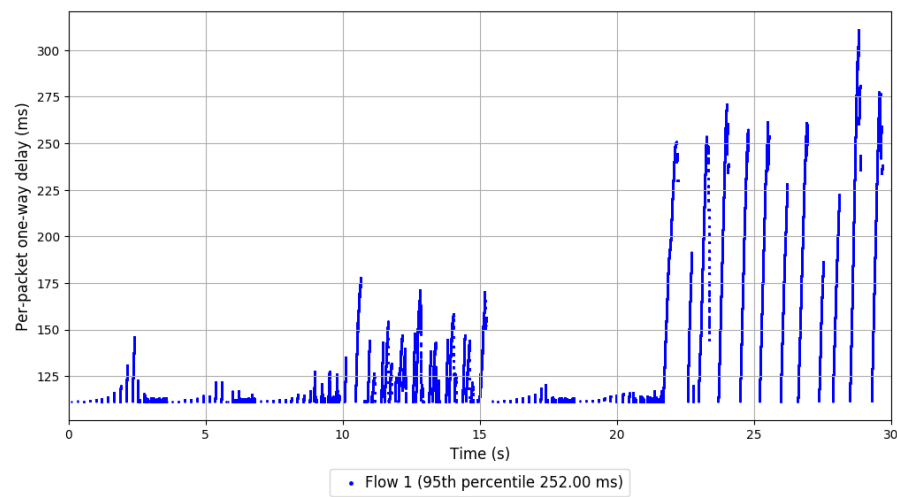
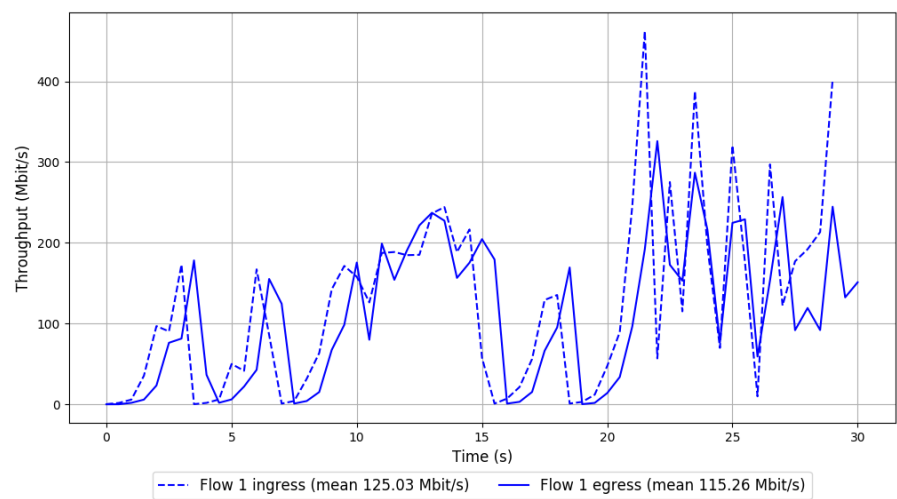
-- Flow 1:

Average throughput: 115.26 Mbit/s

95th percentile per-packet one-way delay: 251.995 ms

Loss rate: 7.42%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-08-27 08:21:57

End at: 2018-08-27 08:22:27

Local clock offset: -2.906 ms

Remote clock offset: 0.942 ms

Below is generated by plot.py at 2018-08-27 13:35:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 188.09 Mbit/s

95th percentile per-packet one-way delay: 246.596 ms

Loss rate: 2.42%

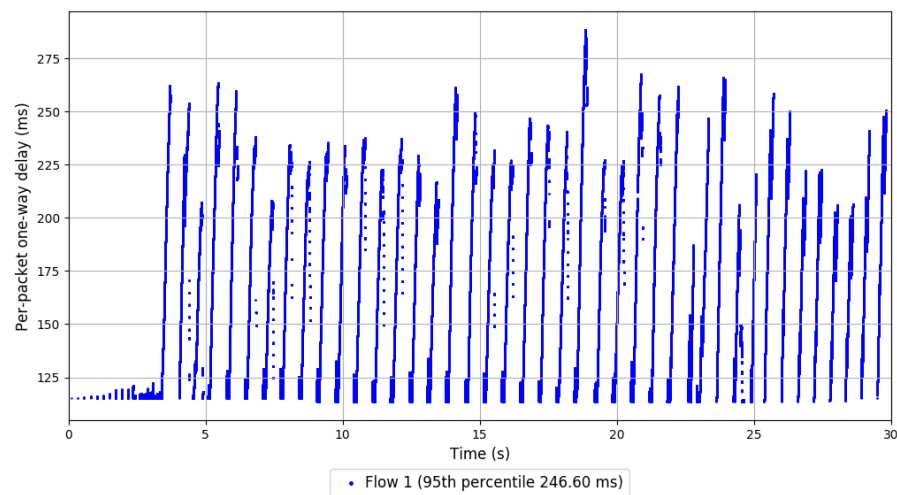
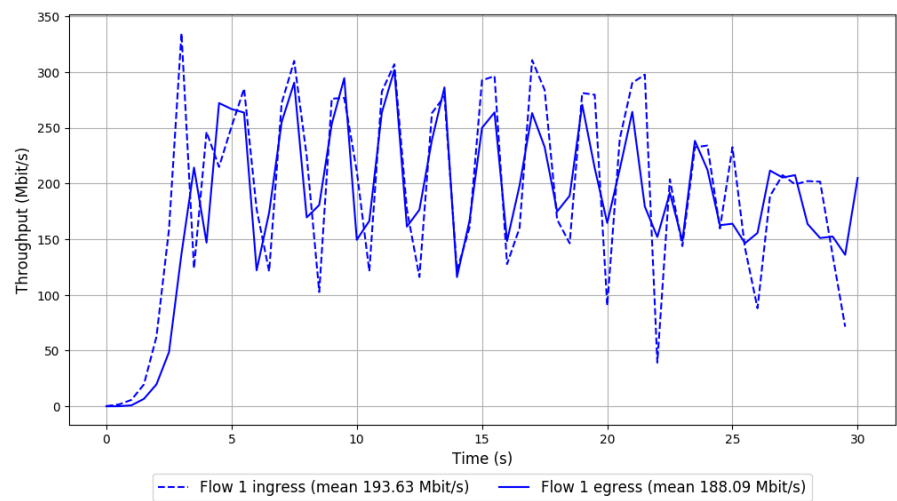
-- Flow 1:

Average throughput: 188.09 Mbit/s

95th percentile per-packet one-way delay: 246.596 ms

Loss rate: 2.42%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-08-27 08:46:42

End at: 2018-08-27 08:47:12

Local clock offset: -2.94 ms

Remote clock offset: 0.519 ms

Below is generated by plot.py at 2018-08-27 13:35:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 131.10 Mbit/s

95th percentile per-packet one-way delay: 208.805 ms

Loss rate: 0.01%

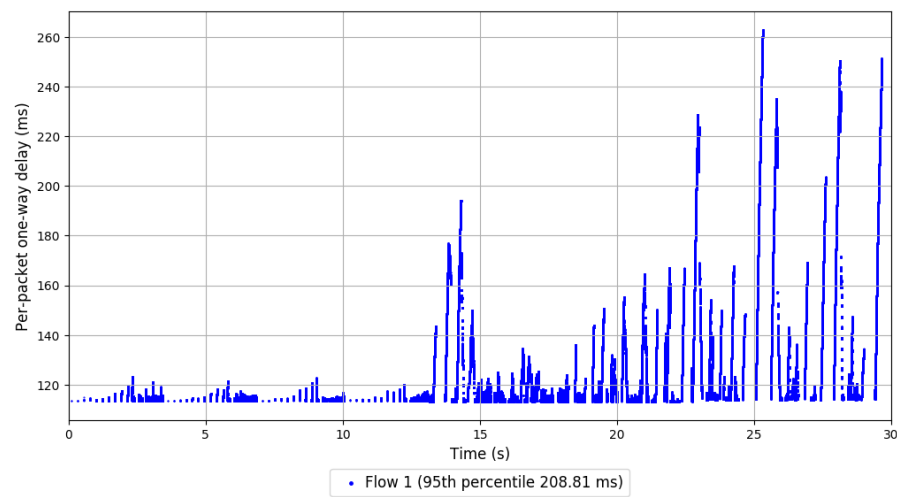
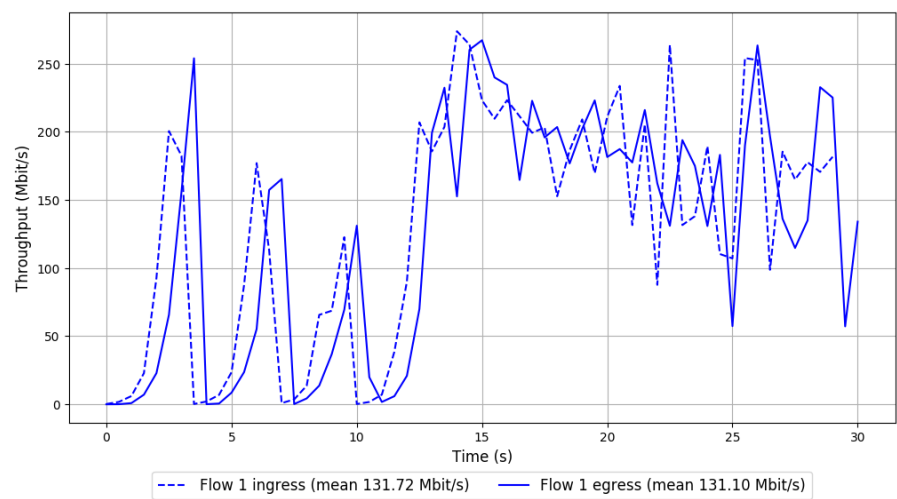
-- Flow 1:

Average throughput: 131.10 Mbit/s

95th percentile per-packet one-way delay: 208.805 ms

Loss rate: 0.01%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-08-27 09:10:46

End at: 2018-08-27 09:11:16

Local clock offset: 2.517 ms

Remote clock offset: 0.785 ms

Below is generated by plot.py at 2018-08-27 13:35:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 67.41 Mbit/s

95th percentile per-packet one-way delay: 114.957 ms

Loss rate: 0.02%

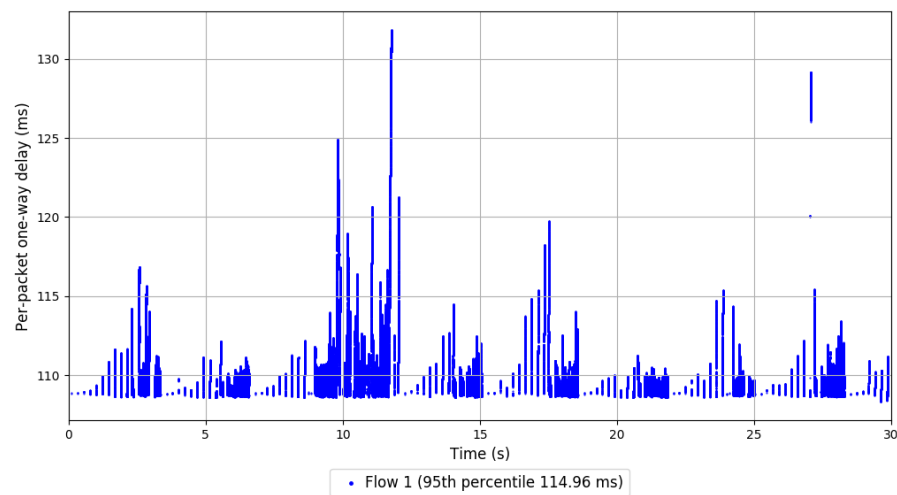
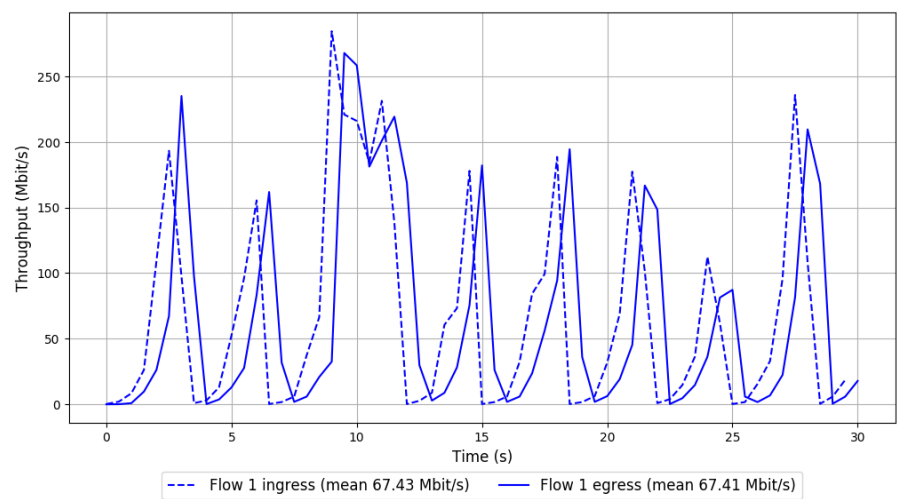
-- Flow 1:

Average throughput: 67.41 Mbit/s

95th percentile per-packet one-way delay: 114.957 ms

Loss rate: 0.02%

Run 6: Report of Verus — Data Link

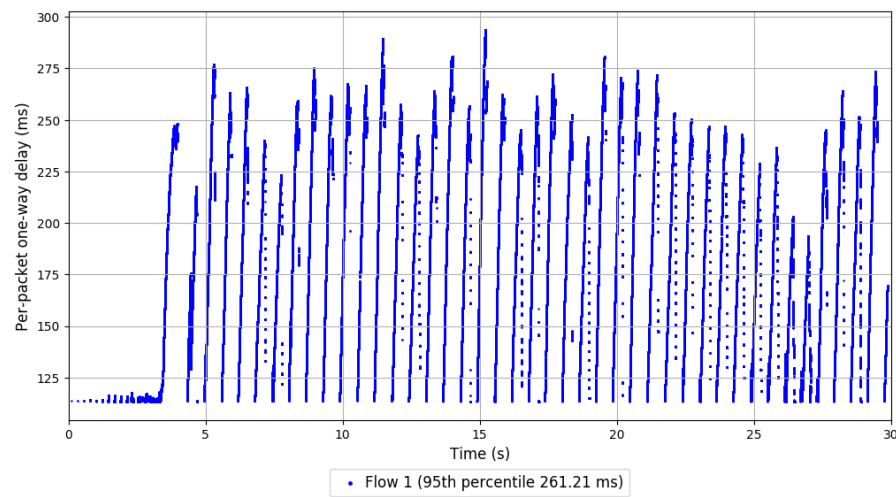
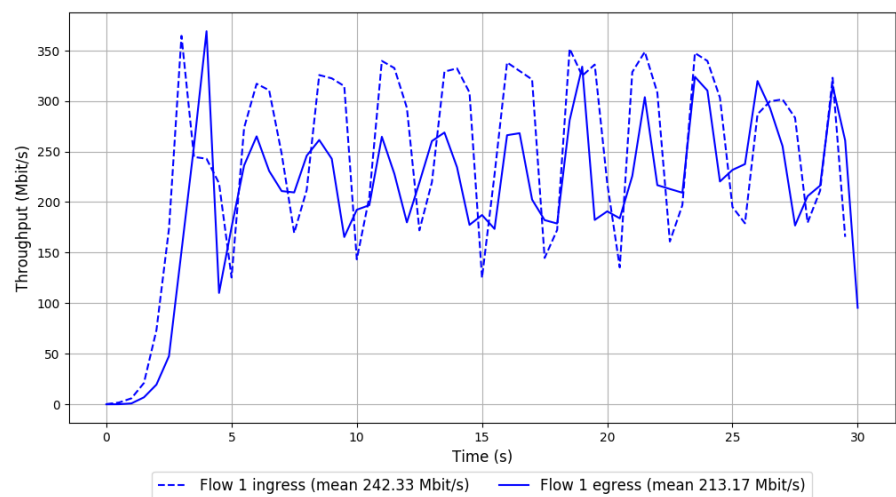


Run 7: Statistics of Verus

Start at: 2018-08-27 09:34:53
End at: 2018-08-27 09:35:23
Local clock offset: -3.075 ms
Remote clock offset: 0.378 ms

Below is generated by plot.py at 2018-08-27 13:37:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 213.17 Mbit/s
95th percentile per-packet one-way delay: 261.211 ms
Loss rate: 12.03%
-- Flow 1:
Average throughput: 213.17 Mbit/s
95th percentile per-packet one-way delay: 261.211 ms
Loss rate: 12.03%

Run 7: Report of Verus — Data Link

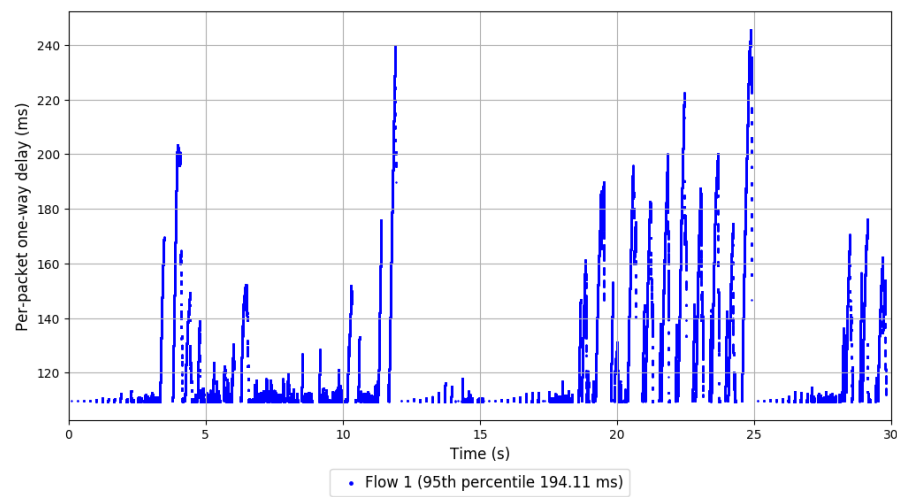
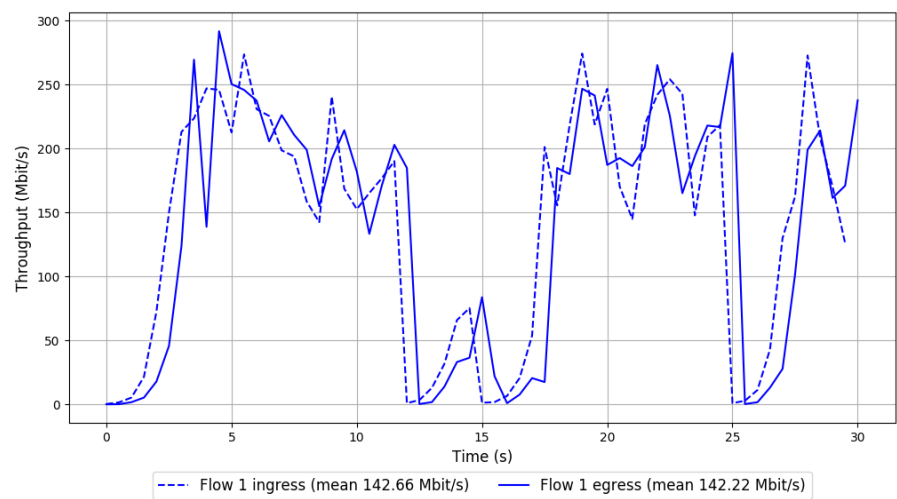


Run 8: Statistics of Verus

Start at: 2018-08-27 09:59:10
End at: 2018-08-27 09:59:40
Local clock offset: -0.318 ms
Remote clock offset: -0.658 ms

Below is generated by plot.py at 2018-08-27 13:37:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 142.22 Mbit/s
95th percentile per-packet one-way delay: 194.113 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 142.22 Mbit/s
95th percentile per-packet one-way delay: 194.113 ms
Loss rate: 0.30%

Run 8: Report of Verus — Data Link

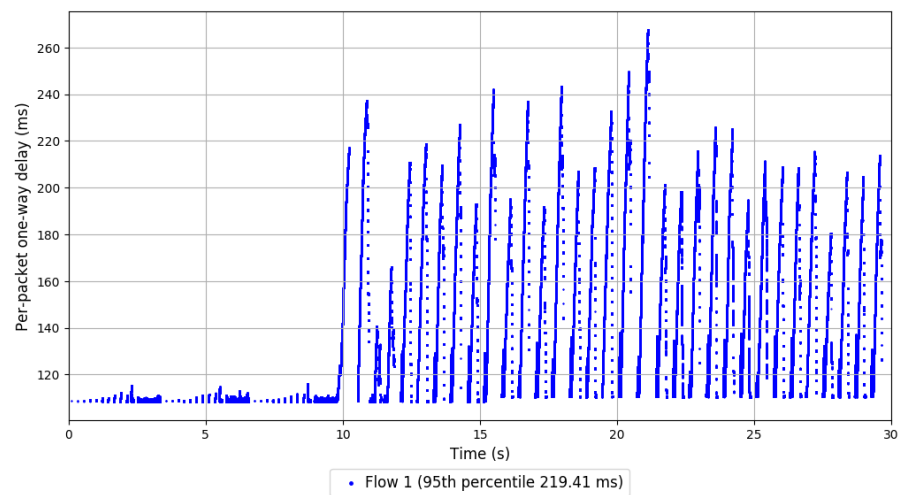
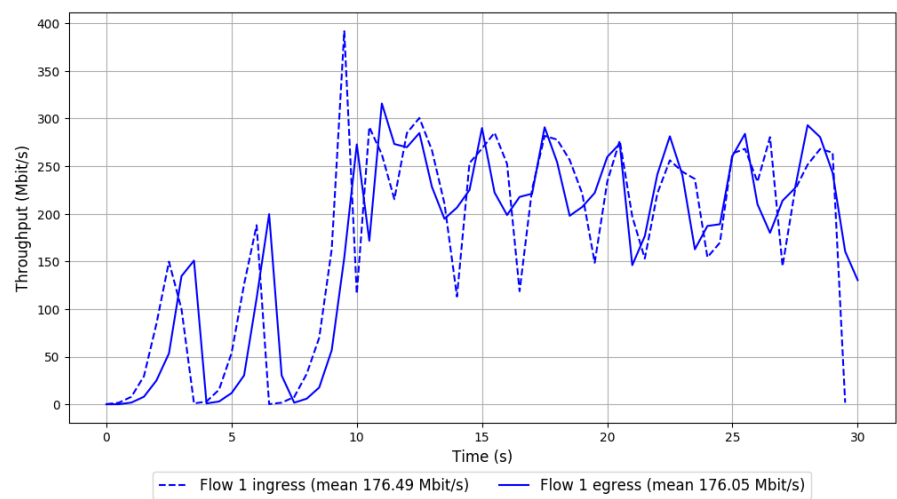


Run 9: Statistics of Verus

Start at: 2018-08-27 10:23:30
End at: 2018-08-27 10:24:00
Local clock offset: -0.087 ms
Remote clock offset: -1.066 ms

Below is generated by plot.py at 2018-08-27 13:37:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 176.05 Mbit/s
95th percentile per-packet one-way delay: 219.414 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 176.05 Mbit/s
95th percentile per-packet one-way delay: 219.414 ms
Loss rate: 0.19%

Run 9: Report of Verus — Data Link

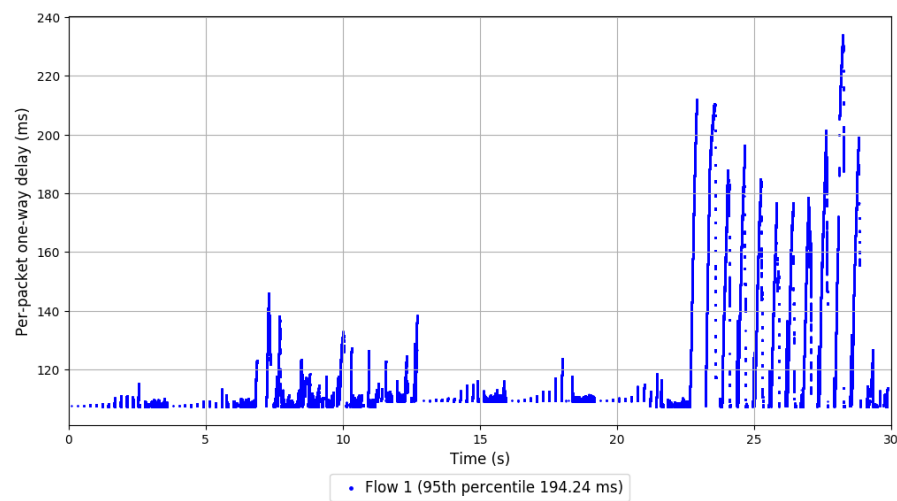
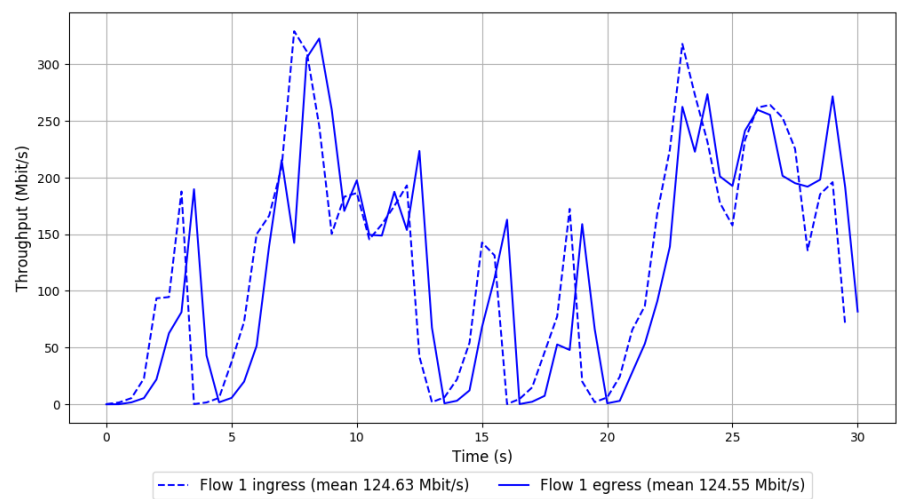


Run 10: Statistics of Verus

Start at: 2018-08-27 10:47:44
End at: 2018-08-27 10:48:14
Local clock offset: 2.688 ms
Remote clock offset: -0.608 ms

Below is generated by plot.py at 2018-08-27 13:37:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 124.55 Mbit/s
95th percentile per-packet one-way delay: 194.242 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 124.55 Mbit/s
95th percentile per-packet one-way delay: 194.242 ms
Loss rate: 0.06%

Run 10: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2018-08-27 07:16:31

End at: 2018-08-27 07:17:01

Local clock offset: -0.146 ms

Remote clock offset: 6.649 ms

Below is generated by plot.py at 2018-08-27 13:37:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 218.61 Mbit/s

95th percentile per-packet one-way delay: 110.661 ms

Loss rate: 0.00%

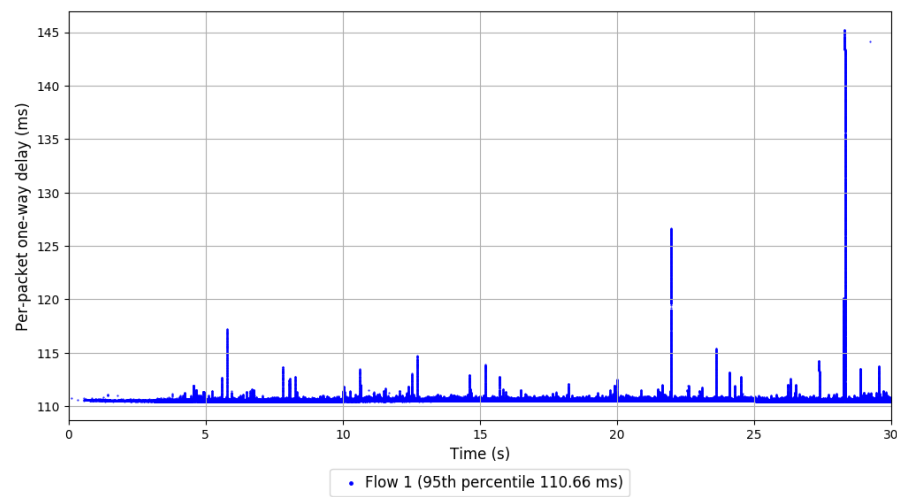
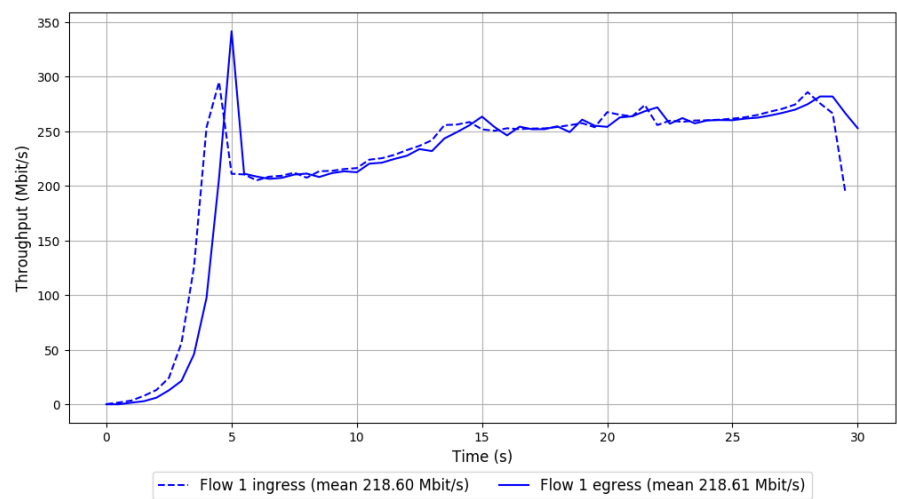
-- Flow 1:

Average throughput: 218.61 Mbit/s

95th percentile per-packet one-way delay: 110.661 ms

Loss rate: 0.00%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2018-08-27 07:41:01

End at: 2018-08-27 07:41:31

Local clock offset: -2.88 ms

Remote clock offset: 6.321 ms

Below is generated by plot.py at 2018-08-27 13:37:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 274.69 Mbit/s

95th percentile per-packet one-way delay: 113.607 ms

Loss rate: 0.00%

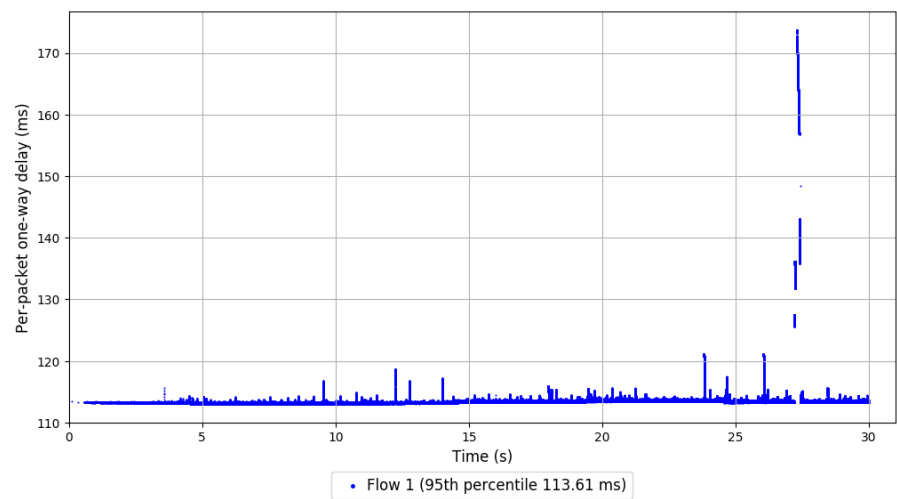
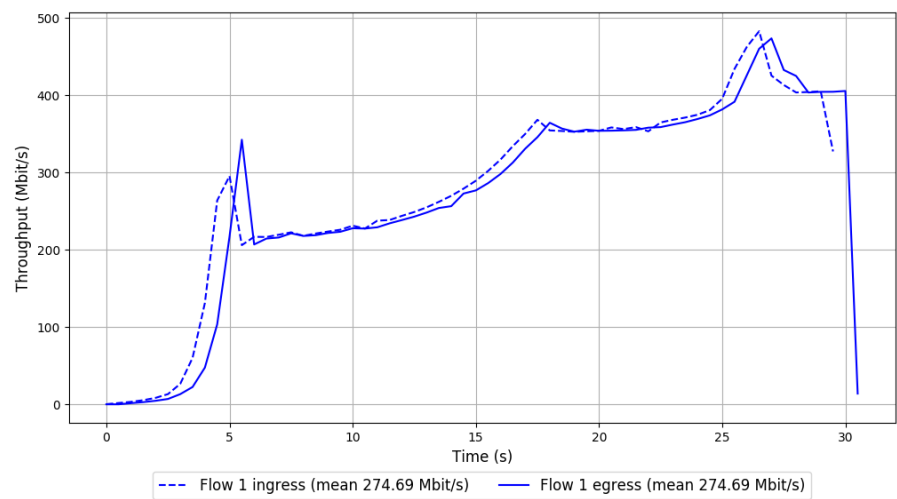
-- Flow 1:

Average throughput: 274.69 Mbit/s

95th percentile per-packet one-way delay: 113.607 ms

Loss rate: 0.00%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

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

End at: 2018-08-27 08:05:39

Local clock offset: -2.874 ms

Remote clock offset: 1.74 ms

Below is generated by plot.py at 2018-08-27 13:39:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 318.16 Mbit/s

95th percentile per-packet one-way delay: 113.412 ms

Loss rate: 0.00%

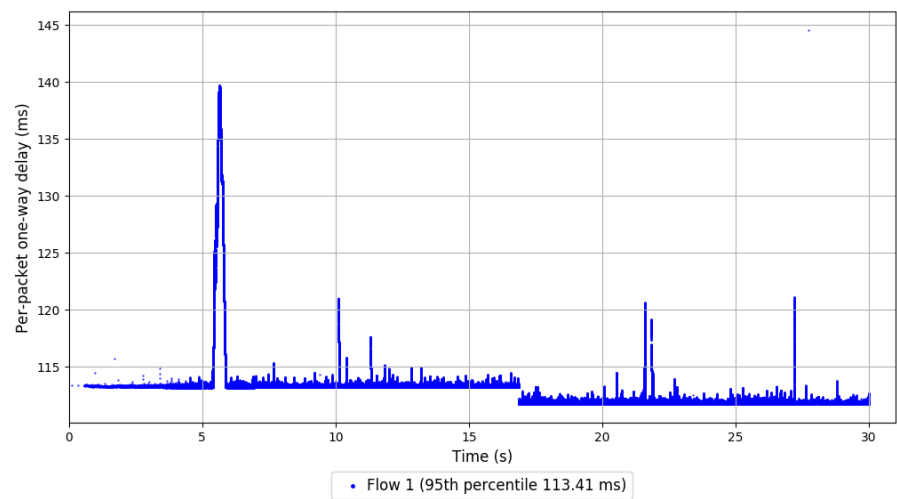
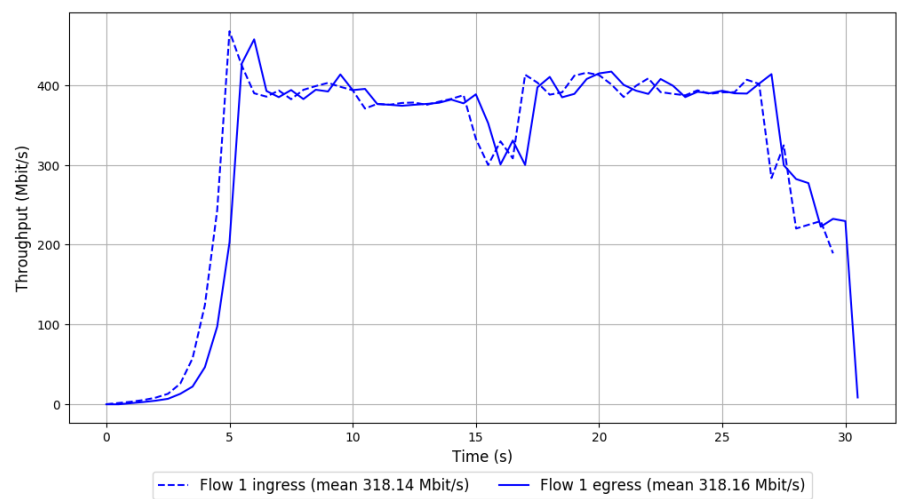
-- Flow 1:

Average throughput: 318.16 Mbit/s

95th percentile per-packet one-way delay: 113.412 ms

Loss rate: 0.00%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2018-08-27 08:29:26

End at: 2018-08-27 08:29:56

Local clock offset: -2.754 ms

Remote clock offset: 1.073 ms

Below is generated by plot.py at 2018-08-27 13:40:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 348.86 Mbit/s

95th percentile per-packet one-way delay: 116.215 ms

Loss rate: 0.00%

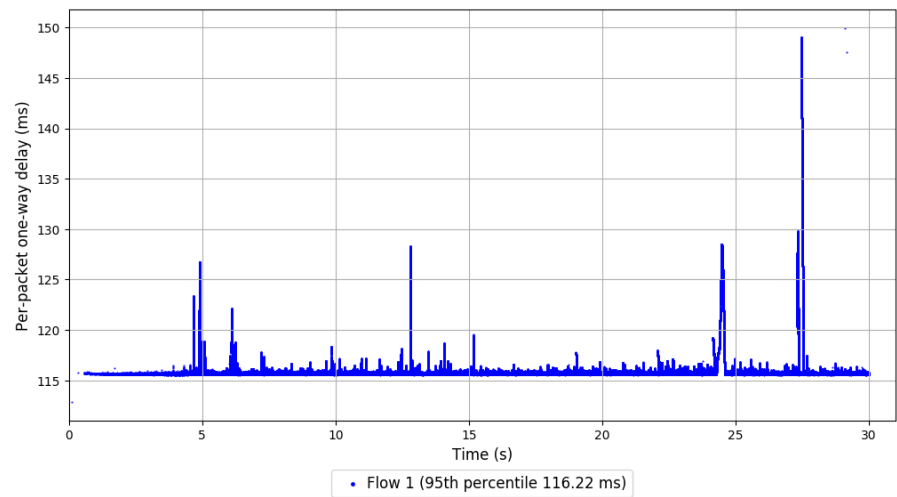
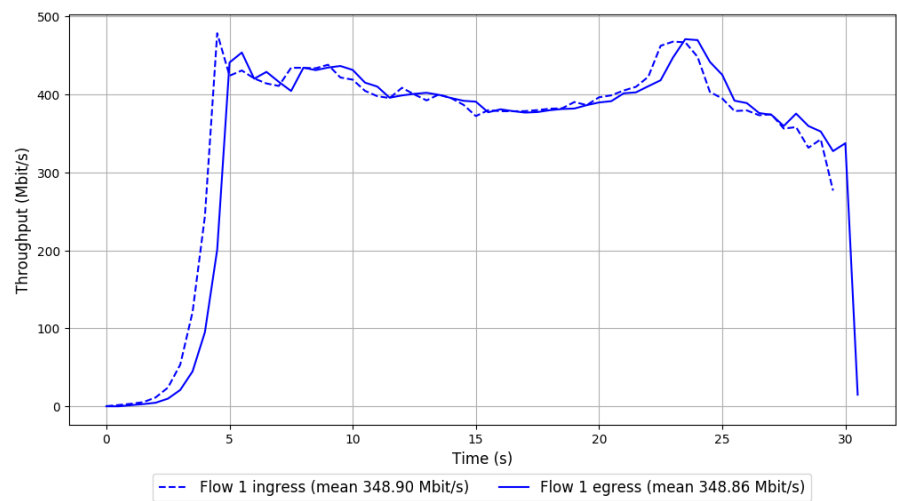
-- Flow 1:

Average throughput: 348.86 Mbit/s

95th percentile per-packet one-way delay: 116.215 ms

Loss rate: 0.00%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2018-08-27 08:53:51

End at: 2018-08-27 08:54:21

Local clock offset: -0.21 ms

Remote clock offset: 0.243 ms

Below is generated by plot.py at 2018-08-27 13:40:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 268.91 Mbit/s

95th percentile per-packet one-way delay: 111.143 ms

Loss rate: 0.00%

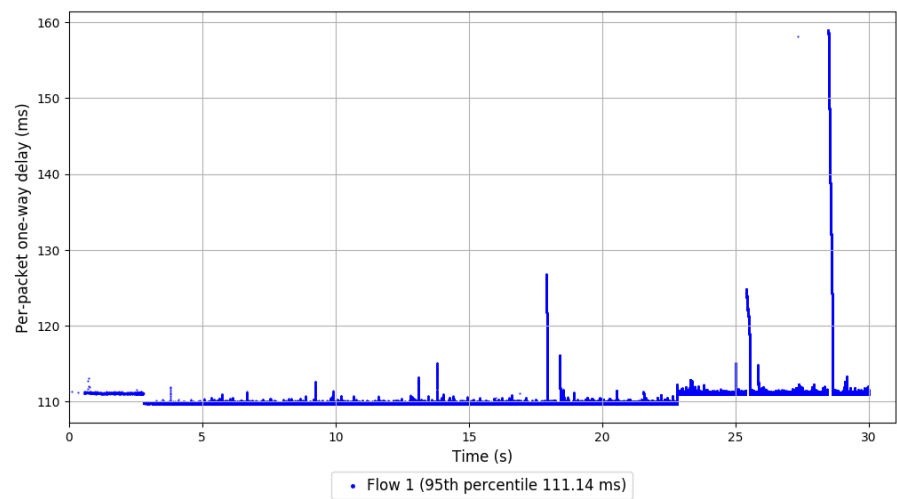
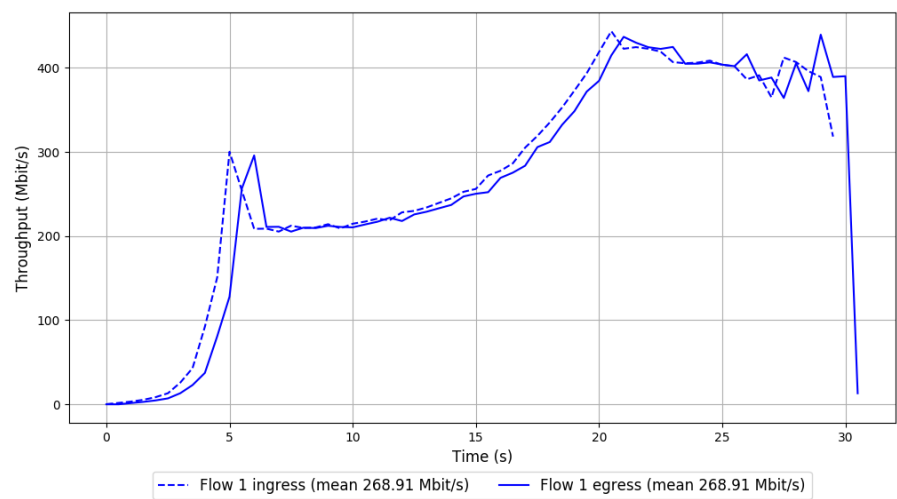
-- Flow 1:

Average throughput: 268.91 Mbit/s

95th percentile per-packet one-way delay: 111.143 ms

Loss rate: 0.00%

Run 5: Report of PCC-Vivace — Data Link

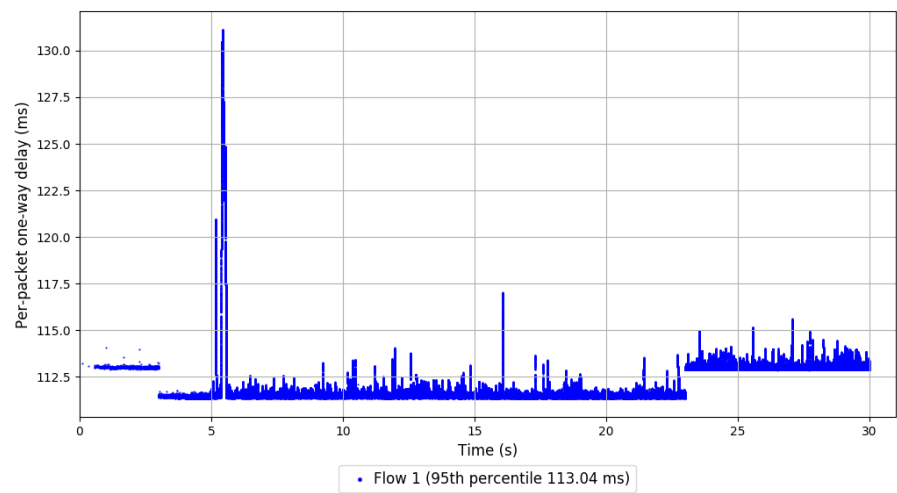
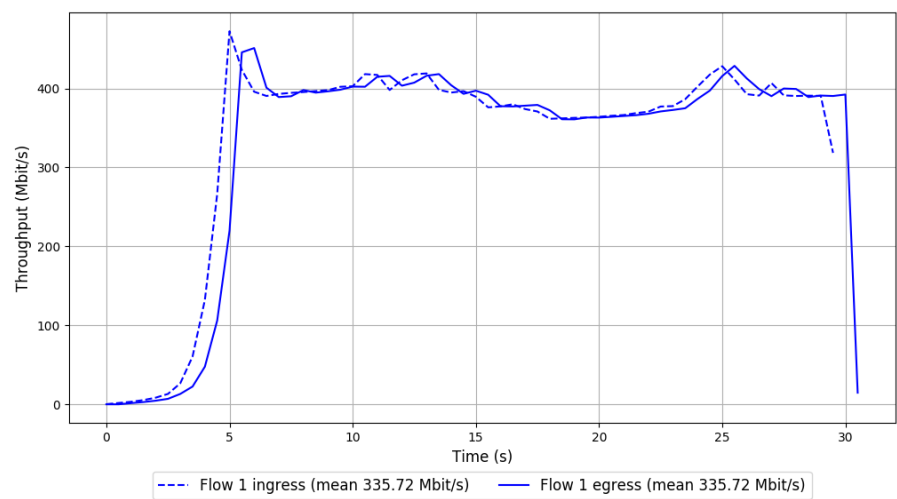


Run 6: Statistics of PCC-Vivace

Start at: 2018-08-27 09:18:03
End at: 2018-08-27 09:18:33
Local clock offset: -3.027 ms
Remote clock offset: -0.421 ms

Below is generated by plot.py at 2018-08-27 13:41:10
Datalink statistics
-- Total of 1 flow:
Average throughput: 335.72 Mbit/s
95th percentile per-packet one-way delay: 113.041 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 335.72 Mbit/s
95th percentile per-packet one-way delay: 113.041 ms
Loss rate: 0.00%

Run 6: Report of PCC-Vivace — Data Link



Run 7: Statistics of PCC-Vivace

Start at: 2018-08-27 09:42:18

End at: 2018-08-27 09:42:48

Local clock offset: -0.083 ms

Remote clock offset: 0.595 ms

Below is generated by plot.py at 2018-08-27 13:41:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 280.20 Mbit/s

95th percentile per-packet one-way delay: 110.886 ms

Loss rate: 0.00%

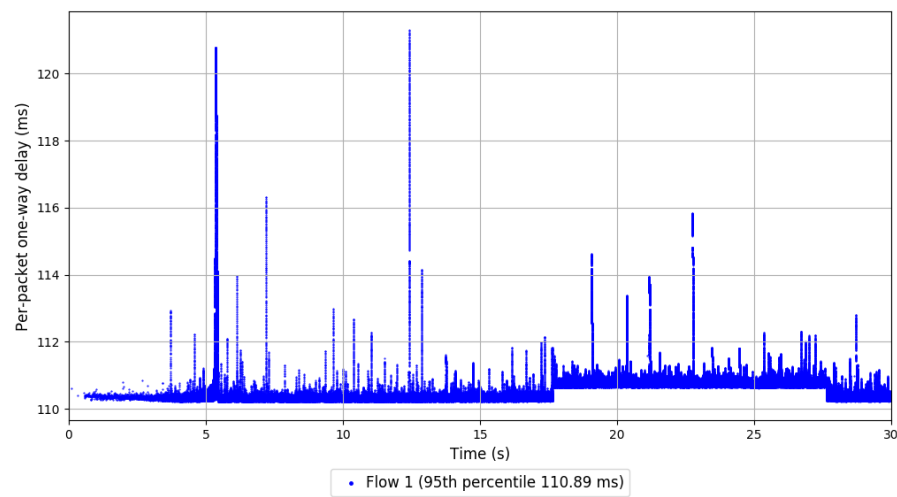
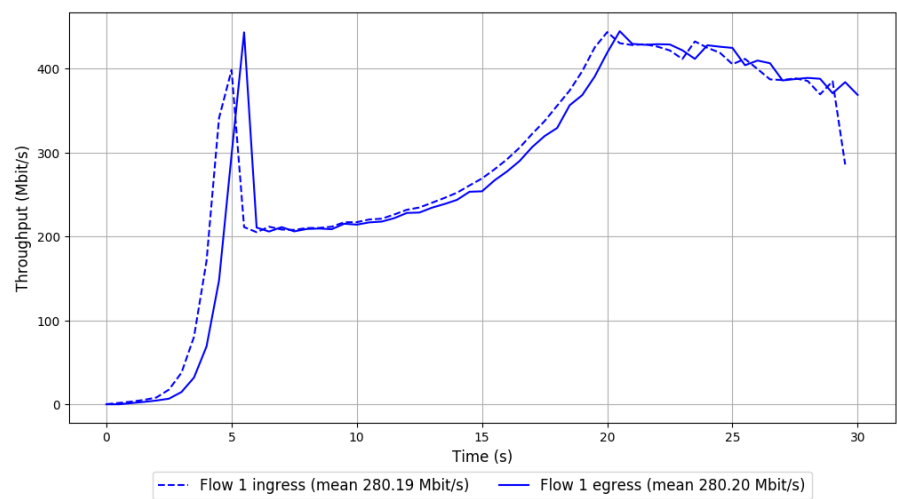
-- Flow 1:

Average throughput: 280.20 Mbit/s

95th percentile per-packet one-way delay: 110.886 ms

Loss rate: 0.00%

Run 7: Report of PCC-Vivace — Data Link



Run 8: Statistics of PCC-Vivace

Start at: 2018-08-27 10:06:41

End at: 2018-08-27 10:07:11

Local clock offset: -0.087 ms

Remote clock offset: -1.05 ms

Below is generated by plot.py at 2018-08-27 13:41:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 359.26 Mbit/s

95th percentile per-packet one-way delay: 113.507 ms

Loss rate: 0.00%

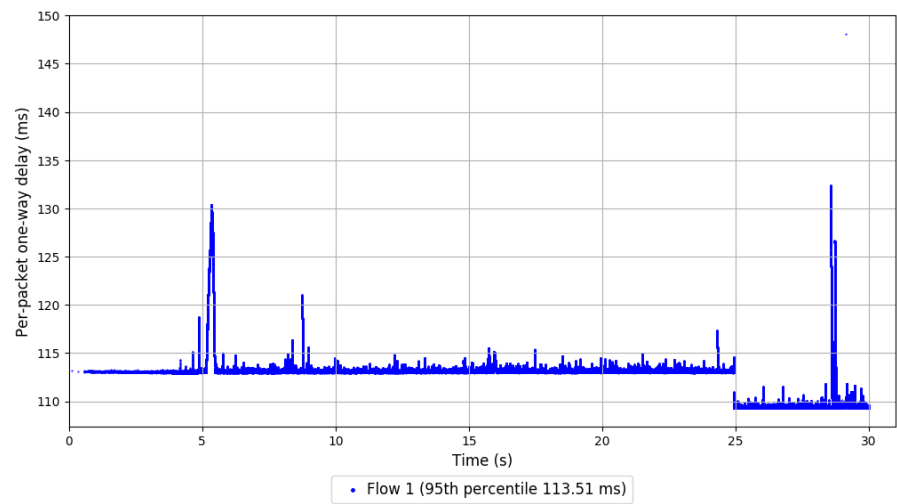
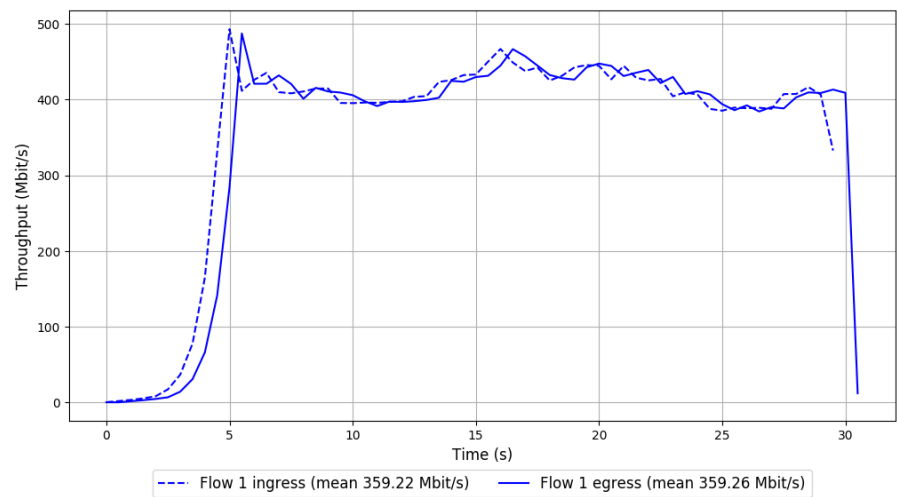
-- Flow 1:

Average throughput: 359.26 Mbit/s

95th percentile per-packet one-way delay: 113.507 ms

Loss rate: 0.00%

Run 8: Report of PCC-Vivace — Data Link

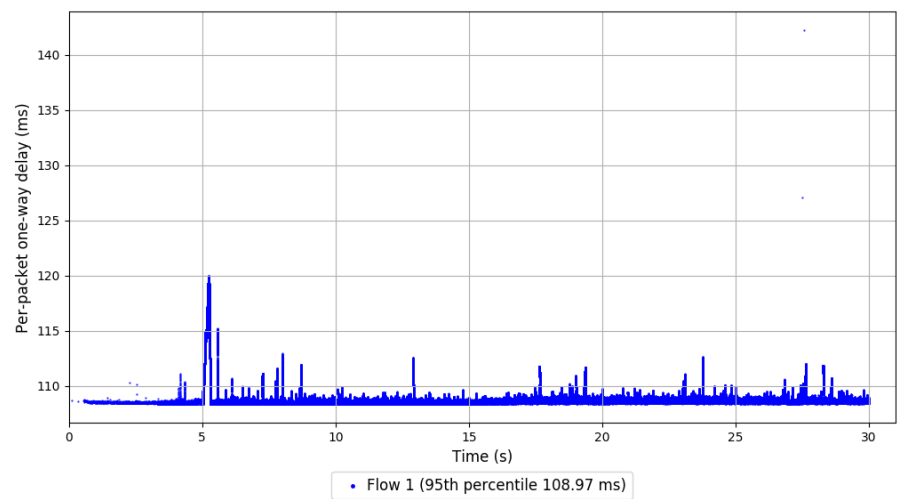
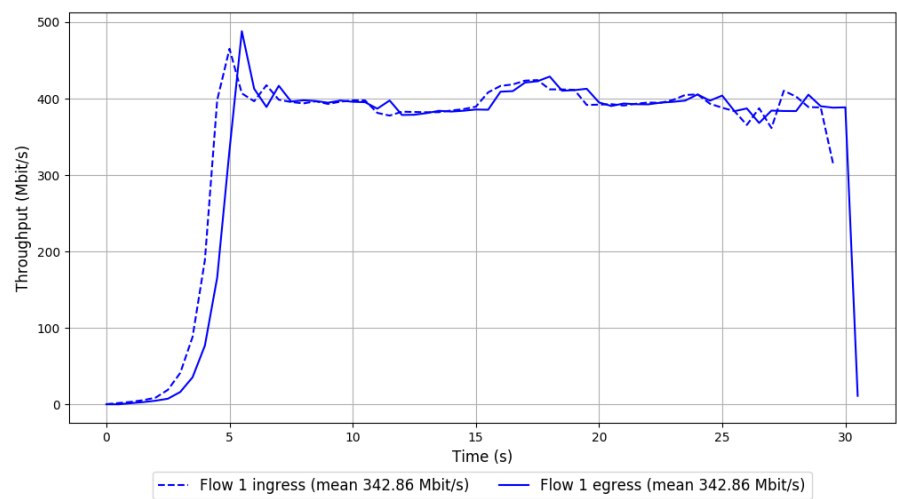


Run 9: Statistics of PCC-Vivace

Start at: 2018-08-27 10:31:01
End at: 2018-08-27 10:31:31
Local clock offset: -0.21 ms
Remote clock offset: -0.659 ms

Below is generated by plot.py at 2018-08-27 13:41:53
Datalink statistics
-- Total of 1 flow:
Average throughput: 342.86 Mbit/s
95th percentile per-packet one-way delay: 108.971 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 342.86 Mbit/s
95th percentile per-packet one-way delay: 108.971 ms
Loss rate: 0.00%

Run 9: Report of PCC-Vivace — Data Link



Run 10: Statistics of PCC-Vivace

Start at: 2018-08-27 10:55:00

End at: 2018-08-27 10:55:30

Local clock offset: -2.844 ms

Remote clock offset: -0.553 ms

Below is generated by plot.py at 2018-08-27 13:41:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 346.71 Mbit/s

95th percentile per-packet one-way delay: 114.474 ms

Loss rate: 0.00%

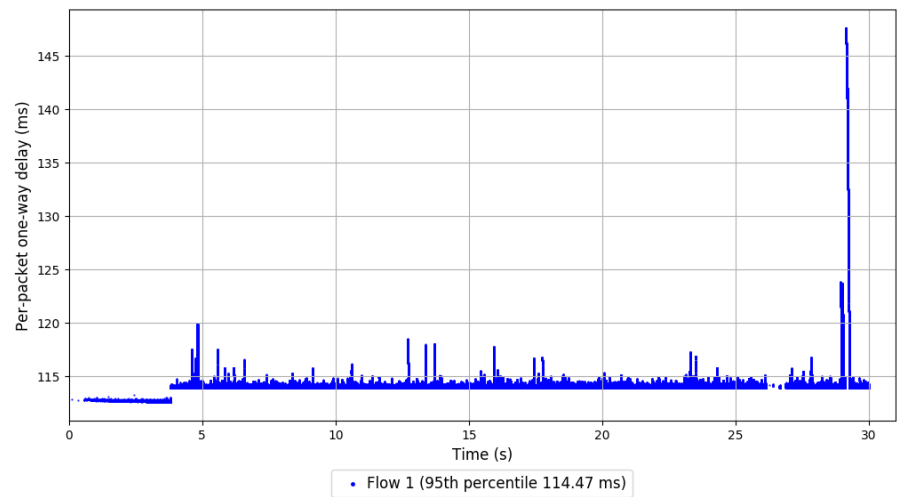
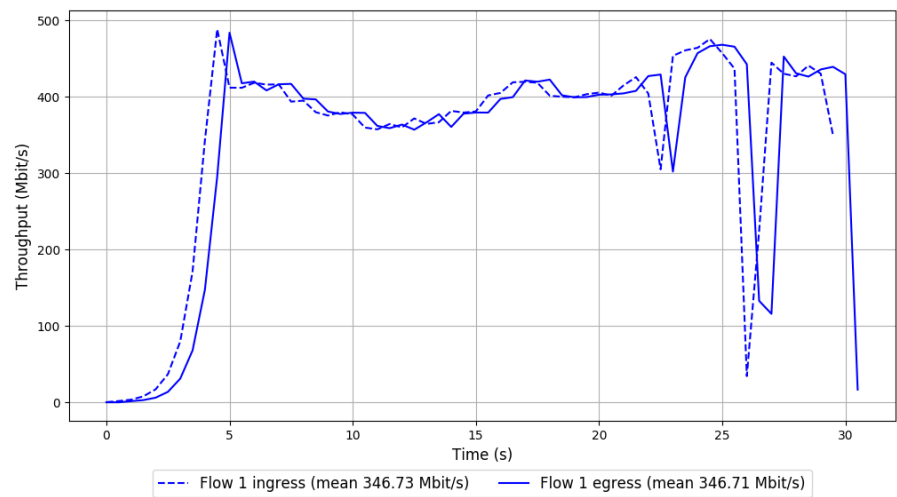
-- Flow 1:

Average throughput: 346.71 Mbit/s

95th percentile per-packet one-way delay: 114.474 ms

Loss rate: 0.00%

Run 10: Report of PCC-Vivace — Data Link

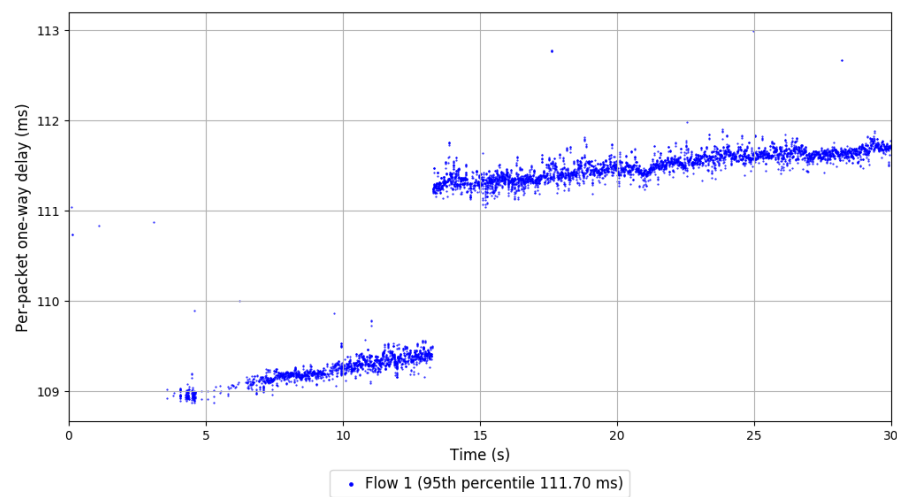
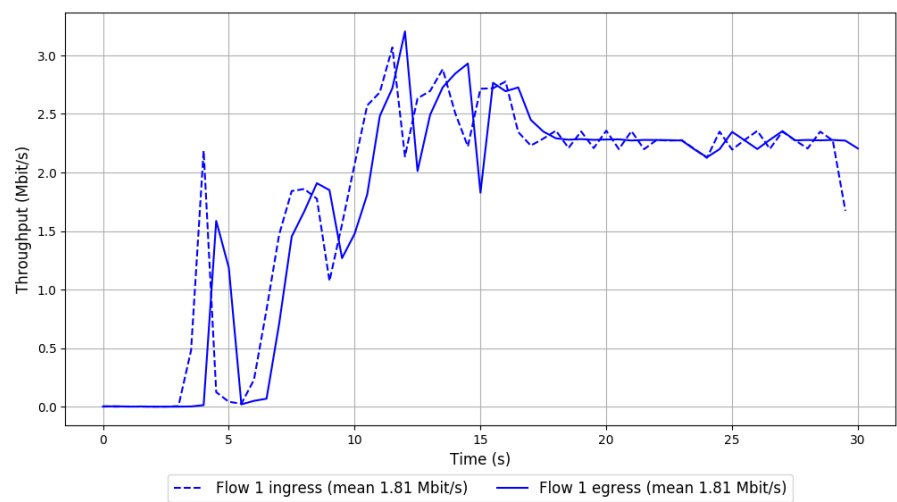


Run 1: Statistics of WebRTC media

Start at: 2018-08-27 07:03:52
End at: 2018-08-27 07:04:22
Local clock offset: -0.232 ms
Remote clock offset: 18.394 ms

Below is generated by plot.py at 2018-08-27 13:41:54
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.81 Mbit/s
95th percentile per-packet one-way delay: 111.699 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.81 Mbit/s
95th percentile per-packet one-way delay: 111.699 ms
Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-08-27 07:27:55

End at: 2018-08-27 07:28:25

Local clock offset: -2.988 ms

Remote clock offset: 7.152 ms

Below is generated by plot.py at 2018-08-27 13:41:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.82 Mbit/s

95th percentile per-packet one-way delay: 114.142 ms

Loss rate: 0.00%

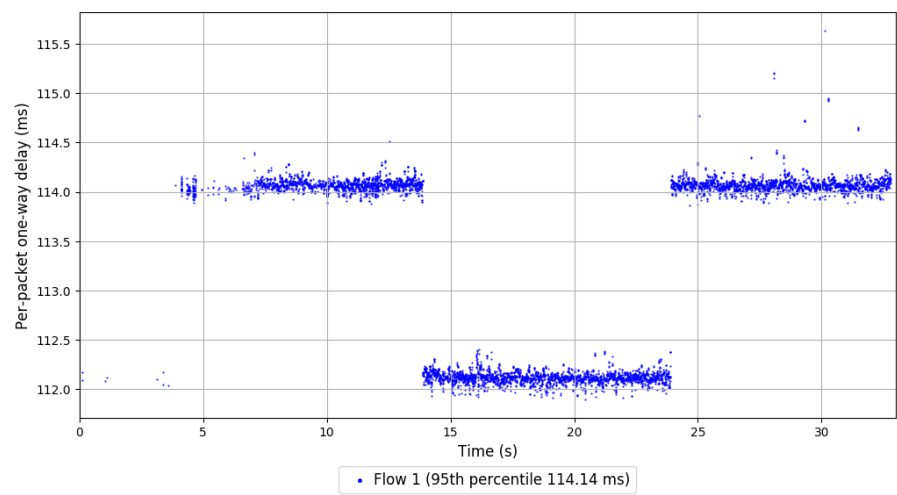
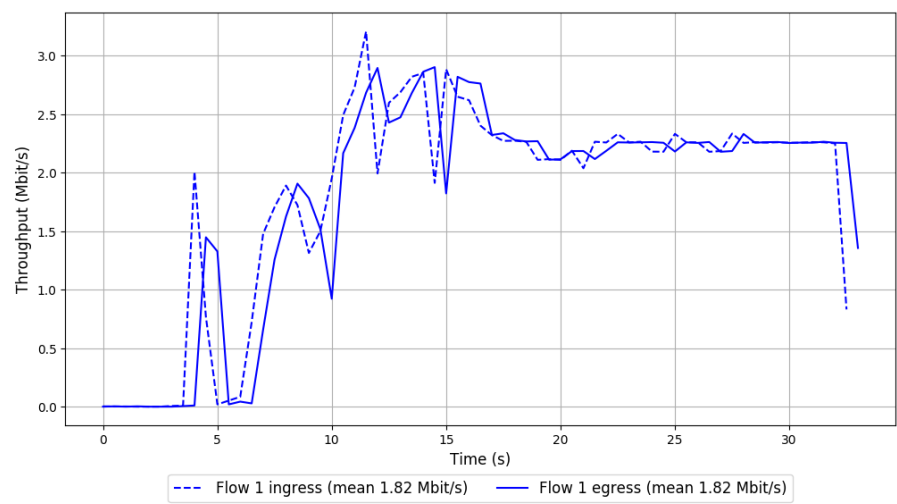
-- Flow 1:

Average throughput: 1.82 Mbit/s

95th percentile per-packet one-way delay: 114.142 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-08-27 07:52:19

End at: 2018-08-27 07:52:49

Local clock offset: -0.163 ms

Remote clock offset: 2.922 ms

Below is generated by plot.py at 2018-08-27 13:41:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.01 Mbit/s

95th percentile per-packet one-way delay: 112.214 ms

Loss rate: 0.00%

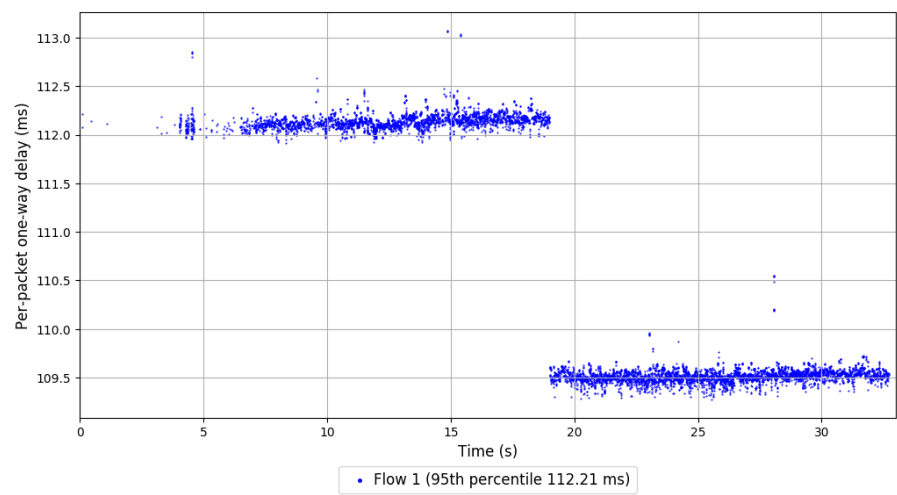
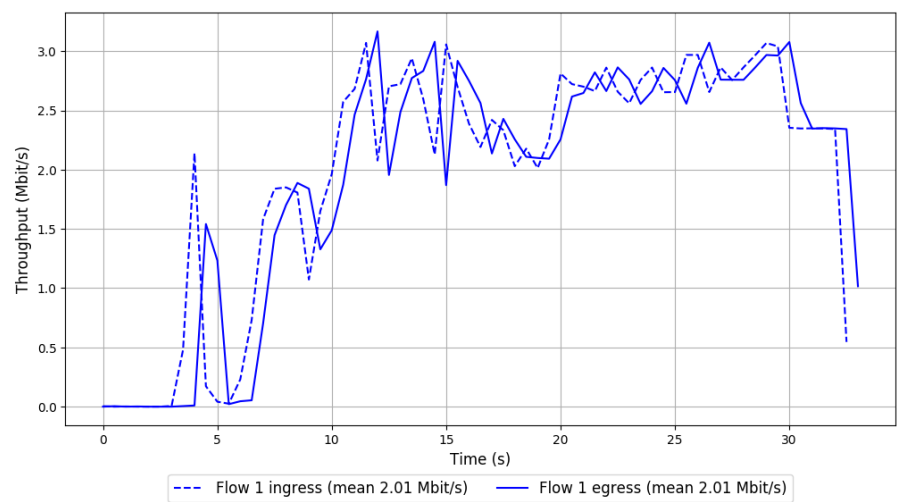
-- Flow 1:

Average throughput: 2.01 Mbit/s

95th percentile per-packet one-way delay: 112.214 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-08-27 08:16:33

End at: 2018-08-27 08:17:03

Local clock offset: -0.01 ms

Remote clock offset: 1.792 ms

Below is generated by plot.py at 2018-08-27 13:41:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.83 Mbit/s

95th percentile per-packet one-way delay: 112.106 ms

Loss rate: 0.00%

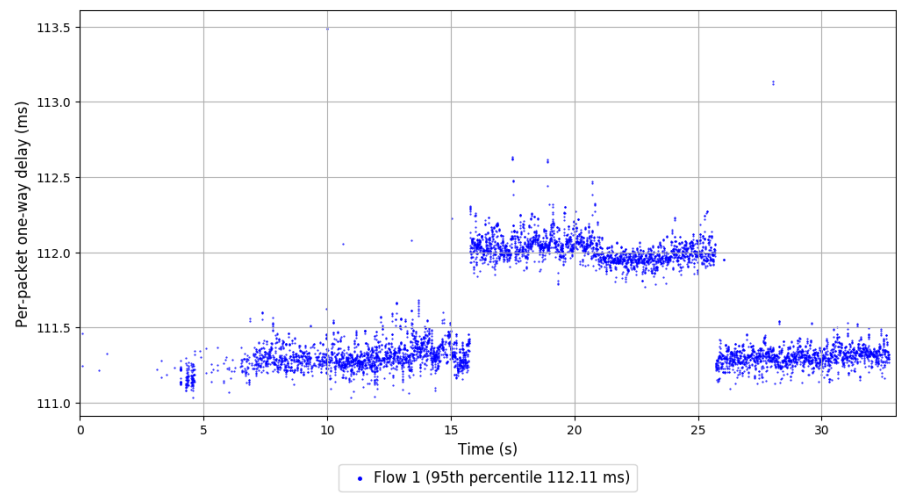
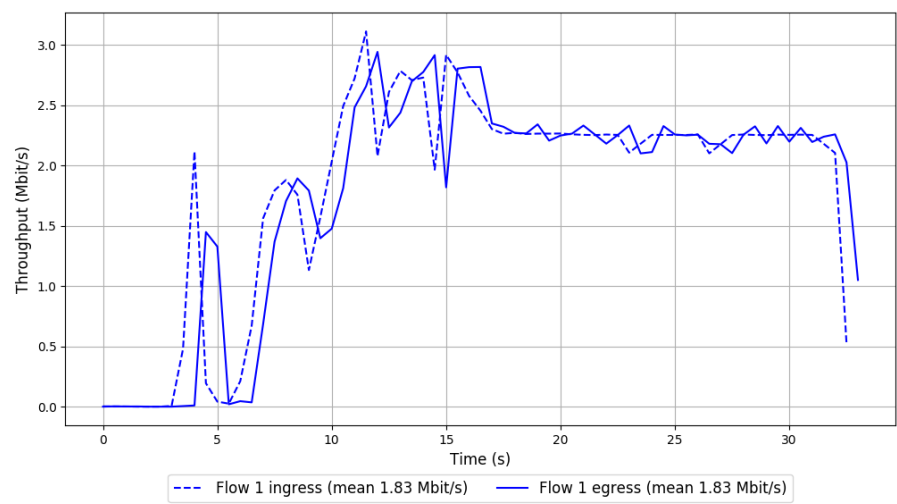
-- Flow 1:

Average throughput: 1.83 Mbit/s

95th percentile per-packet one-way delay: 112.106 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-08-27 08:40:54

End at: 2018-08-27 08:41:24

Local clock offset: -0.162 ms

Remote clock offset: 1.098 ms

Below is generated by plot.py at 2018-08-27 13:41:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.87 Mbit/s

95th percentile per-packet one-way delay: 111.719 ms

Loss rate: 0.00%

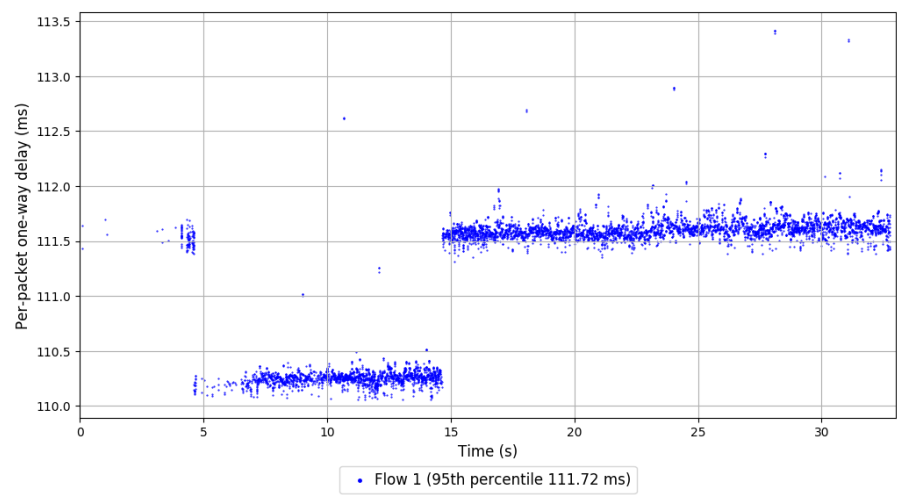
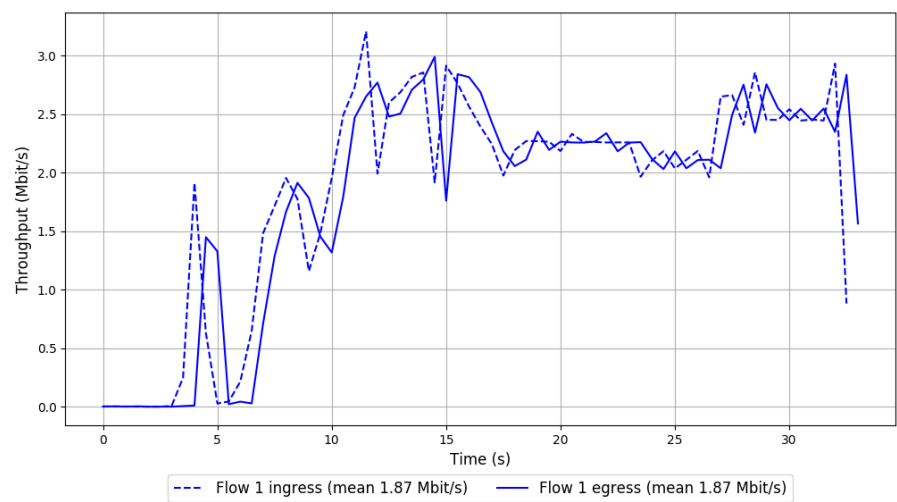
-- Flow 1:

Average throughput: 1.87 Mbit/s

95th percentile per-packet one-way delay: 111.719 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-08-27 09:05:21

End at: 2018-08-27 09:05:51

Local clock offset: -3.006 ms

Remote clock offset: 0.693 ms

Below is generated by plot.py at 2018-08-27 13:41:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.05 Mbit/s

95th percentile per-packet one-way delay: 115.127 ms

Loss rate: 0.00%

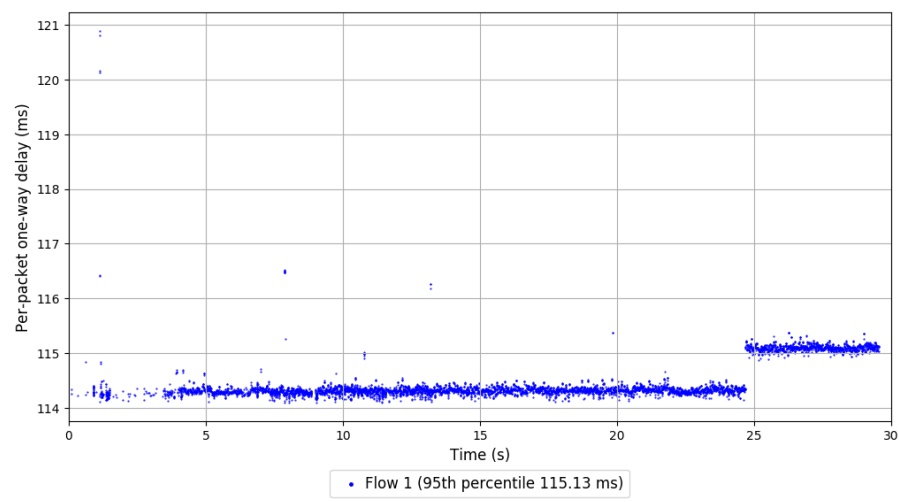
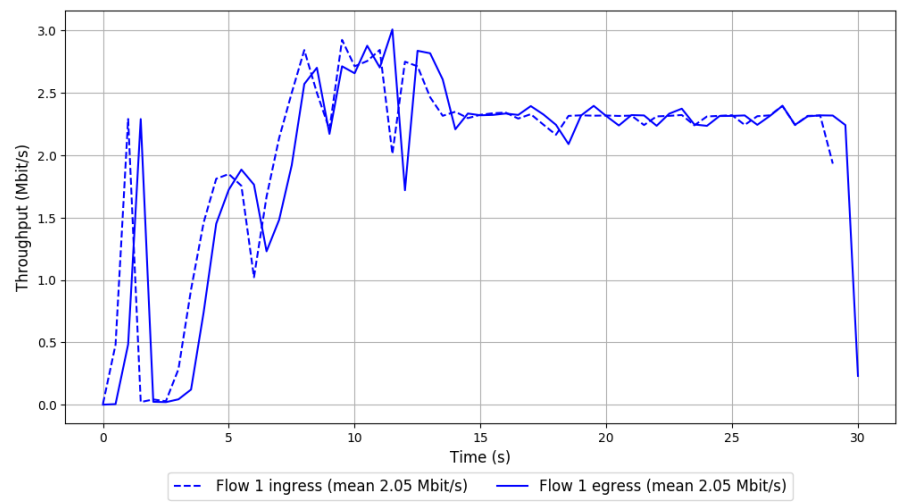
-- Flow 1:

Average throughput: 2.05 Mbit/s

95th percentile per-packet one-way delay: 115.127 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-08-27 09:29:31

End at: 2018-08-27 09:30:01

Local clock offset: 2.61 ms

Remote clock offset: 1.341 ms

Below is generated by plot.py at 2018-08-27 13:41:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.94 Mbit/s

95th percentile per-packet one-way delay: 110.774 ms

Loss rate: 0.00%

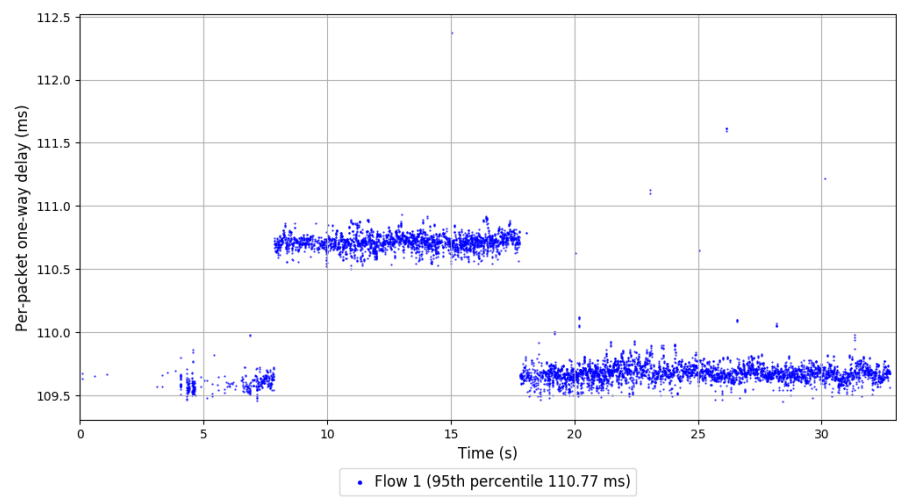
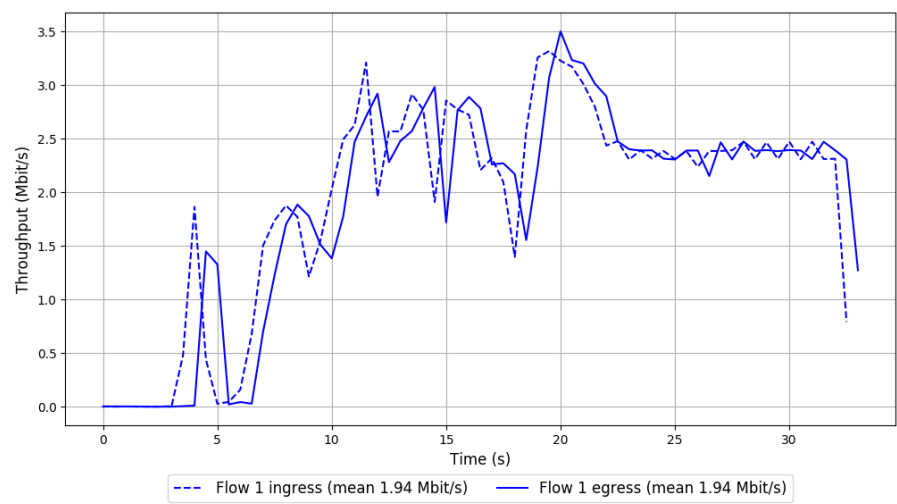
-- Flow 1:

Average throughput: 1.94 Mbit/s

95th percentile per-packet one-way delay: 110.774 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-08-27 09:53:42

End at: 2018-08-27 09:54:12

Local clock offset: 0.005 ms

Remote clock offset: 0.363 ms

Below is generated by plot.py at 2018-08-27 13:41:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.86 Mbit/s

95th percentile per-packet one-way delay: 112.092 ms

Loss rate: 0.00%

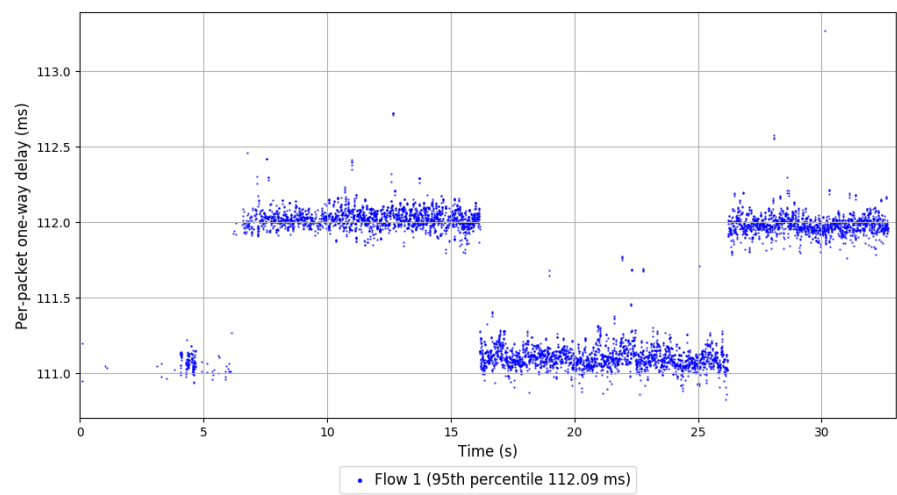
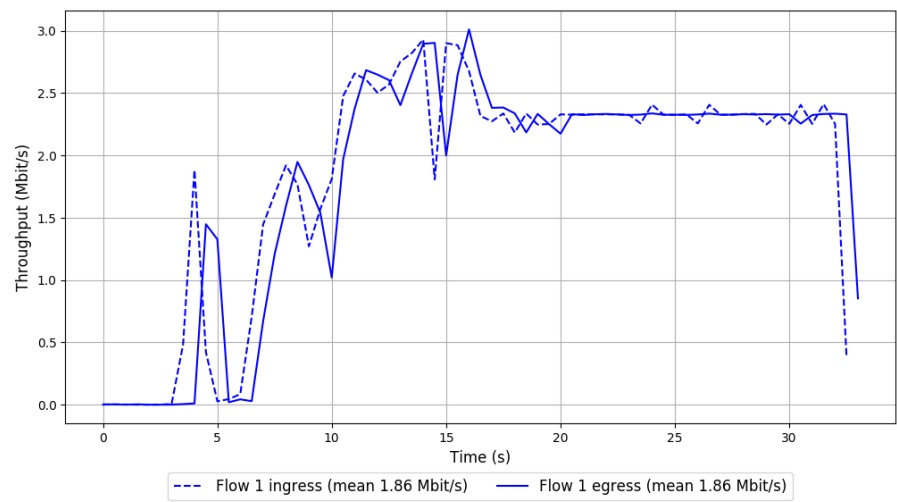
-- Flow 1:

Average throughput: 1.86 Mbit/s

95th percentile per-packet one-way delay: 112.092 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link

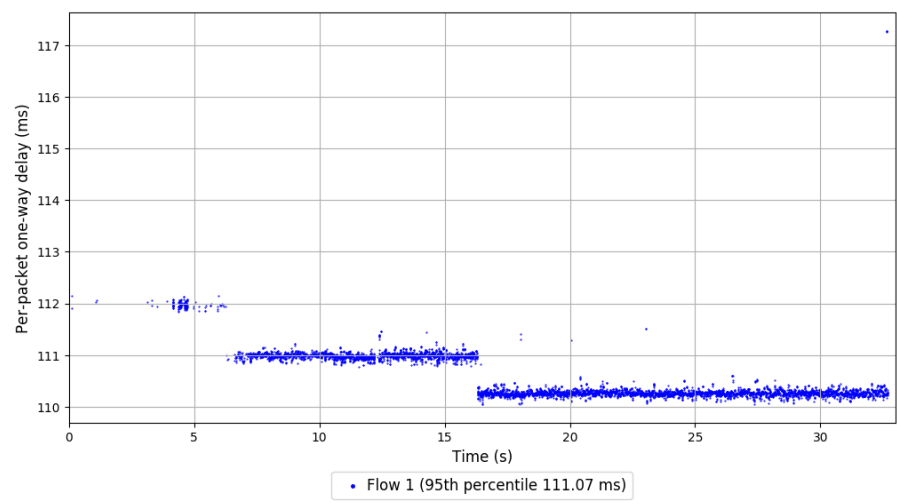
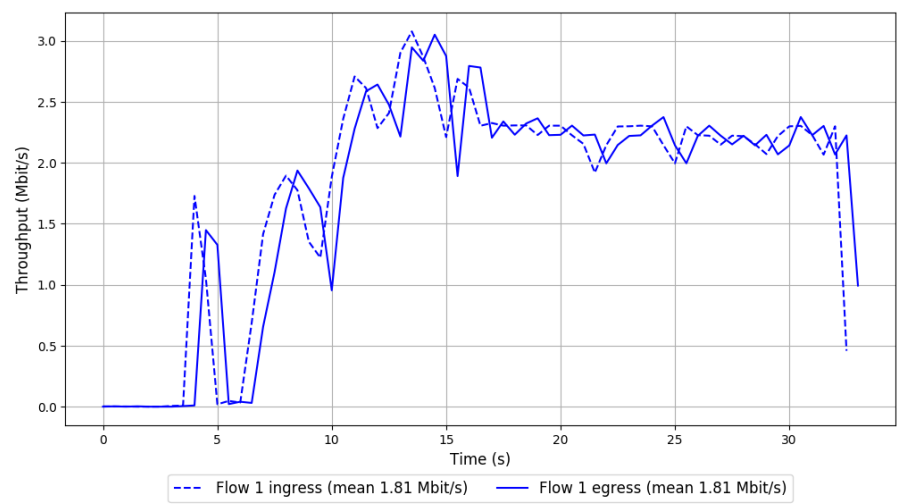


Run 9: Statistics of WebRTC media

Start at: 2018-08-27 10:18:22
End at: 2018-08-27 10:18:52
Local clock offset: -0.304 ms
Remote clock offset: -0.134 ms

Below is generated by plot.py at 2018-08-27 13:41:55
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.81 Mbit/s
95th percentile per-packet one-way delay: 111.069 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.81 Mbit/s
95th percentile per-packet one-way delay: 111.069 ms
Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-08-27 10:42:08

End at: 2018-08-27 10:42:38

Local clock offset: -0.052 ms

Remote clock offset: -0.467 ms

Below is generated by plot.py at 2018-08-27 13:41:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.84 Mbit/s

95th percentile per-packet one-way delay: 111.491 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.84 Mbit/s

95th percentile per-packet one-way delay: 111.491 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

