

Pantheon Report

Generated at 2018-06-18 23:34:12 (UTC).

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

Repeated the test of 16 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

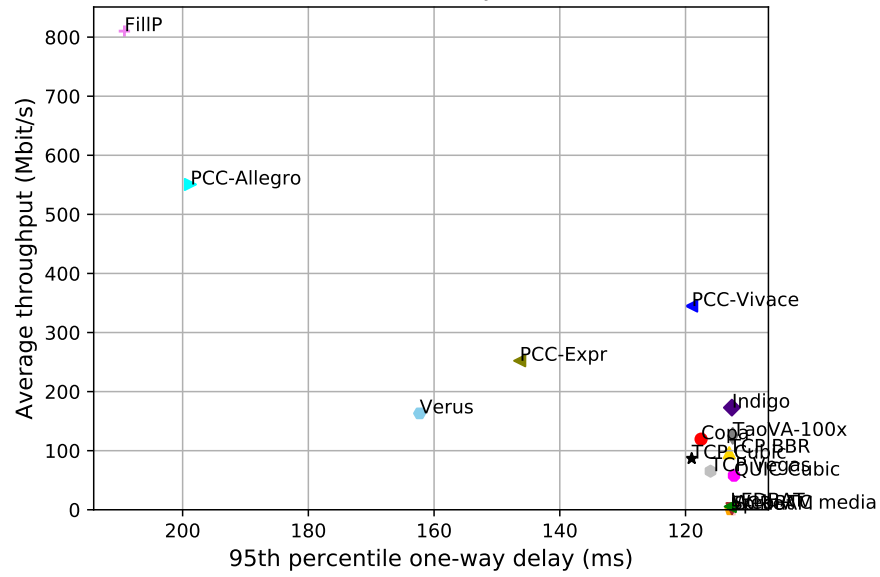
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

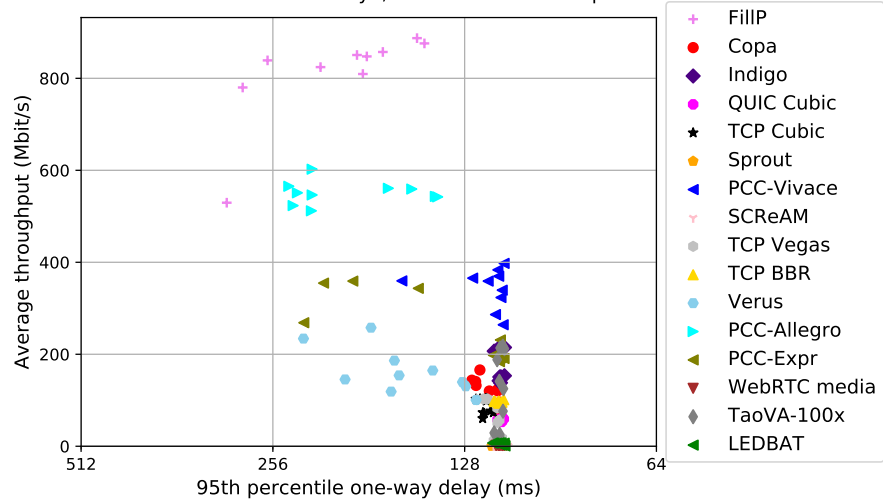
Git summary:

```
branch: master @ 9141c5f9450c85ea5ea2ea755a8e946998d3abf3
third_party/fillp @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/genericCC @ c7966e494a929986eaa5a9c169a7f381fe1bbbe5
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ 6f038ed31259d366f9840f65b82cbe8f464b1b39
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
```

test from GCE London to GCE Tokyo, 10 runs of 30s each per scheme
(mean of all runs by scheme)



test from GCE London to GCE Tokyo, 10 runs of 30s each per scheme



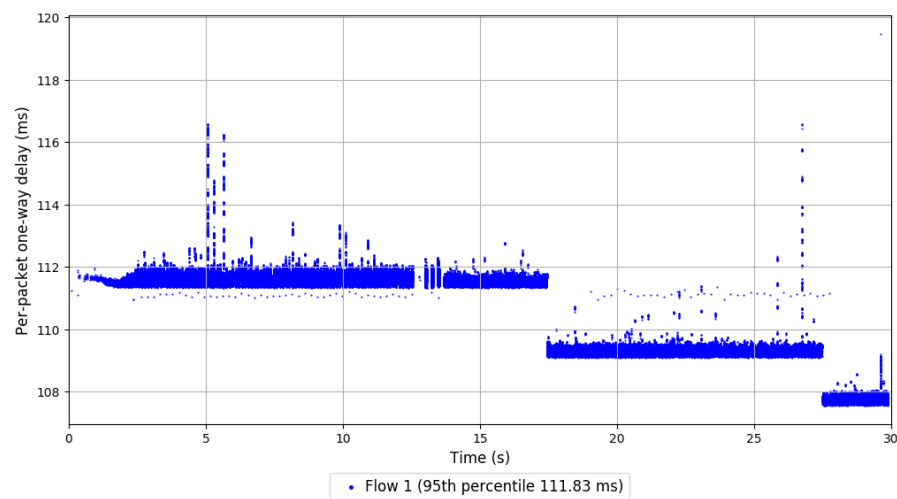
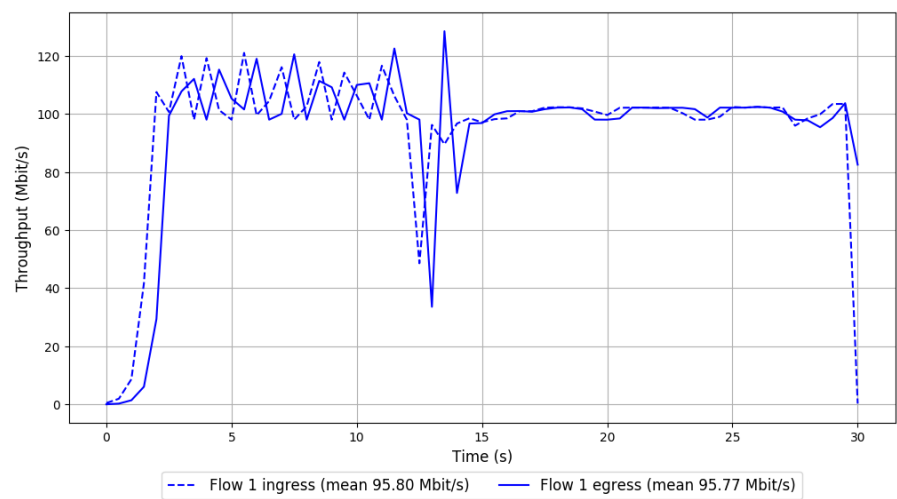
scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	96.59	113.05	0.78
Copa	10	119.48	117.53	0.44
TCP Cubic	10	86.70	119.02	0.90
FillP	10	810.13	209.26	2.70
Indigo	10	172.87	112.63	0.80
LEDBAT	10	5.46	112.89	1.90
PCC-Allegro	10	550.58	198.76	2.38
PCC-Expr	10	252.22	146.38	1.43
QUIC Cubic	8	57.92	112.29	1.03
SCReAM	10	0.21	112.25	0.72
Sprout	10	0.21	112.81	0.41
TaoVA-100x	10	125.13	112.49	1.29
TCP Vegas	10	65.28	116.03	0.74
Verus	10	163.14	162.30	1.11
PCC-Vivace	10	344.82	119.03	0.90
WebRTC media	10	1.84	112.61	0.88

Run 1: Statistics of TCP BBR

Start at: 2018-06-18 19:00:16
End at: 2018-06-18 19:00:46
Local clock offset: -1.249 ms
Remote clock offset: -0.009 ms

Below is generated by plot.py at 2018-06-18 22:23:20
Datalink statistics
-- Total of 1 flow:
Average throughput: 95.77 Mbit/s
95th percentile per-packet one-way delay: 111.825 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 95.77 Mbit/s
95th percentile per-packet one-way delay: 111.825 ms
Loss rate: 0.80%

Run 1: Report of TCP BBR — Data Link

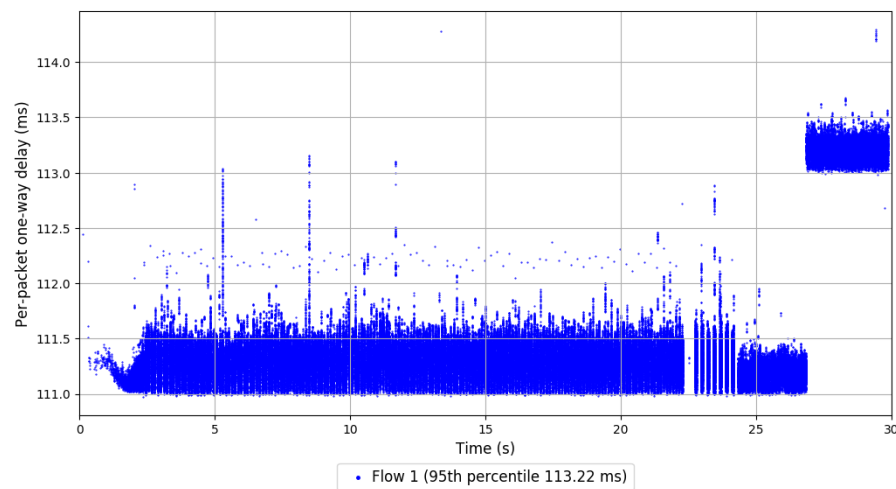
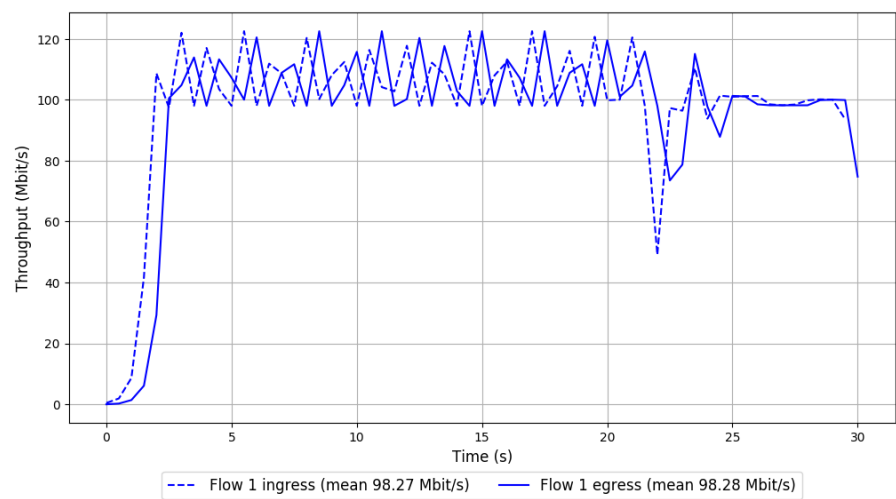


Run 2: Statistics of TCP BBR

Start at: 2018-06-18 19:21:16
End at: 2018-06-18 19:21:46
Local clock offset: -0.013 ms
Remote clock offset: -0.333 ms

Below is generated by plot.py at 2018-06-18 22:23:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 98.28 Mbit/s
95th percentile per-packet one-way delay: 113.216 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 98.28 Mbit/s
95th percentile per-packet one-way delay: 113.216 ms
Loss rate: 0.74%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-06-18 19:42:01

End at: 2018-06-18 19:42:31

Local clock offset: 0.095 ms

Remote clock offset: 0.08 ms

Below is generated by plot.py at 2018-06-18 22:23:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.62 Mbit/s

95th percentile per-packet one-way delay: 113.209 ms

Loss rate: 0.76%

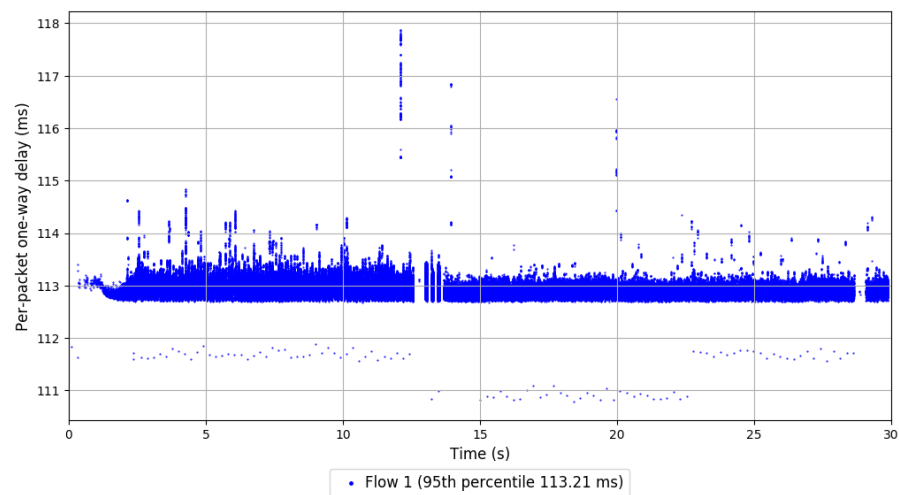
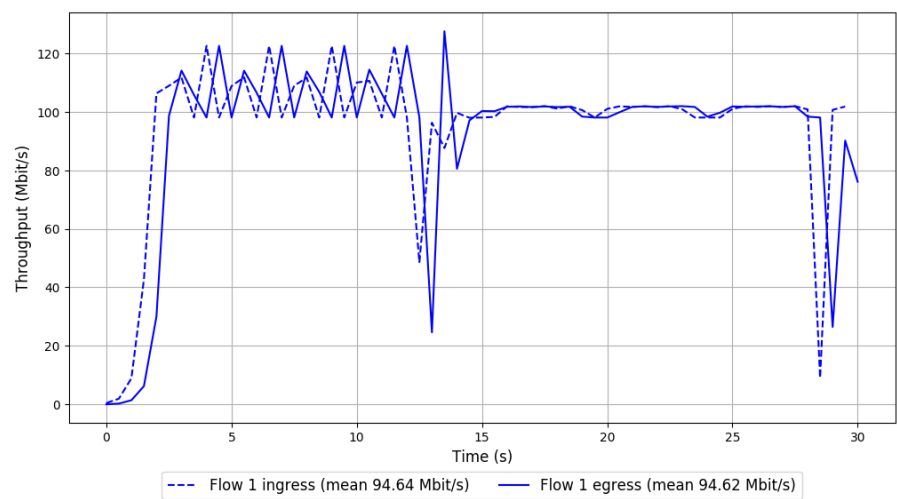
-- Flow 1:

Average throughput: 94.62 Mbit/s

95th percentile per-packet one-way delay: 113.209 ms

Loss rate: 0.76%

Run 3: Report of TCP BBR — Data Link

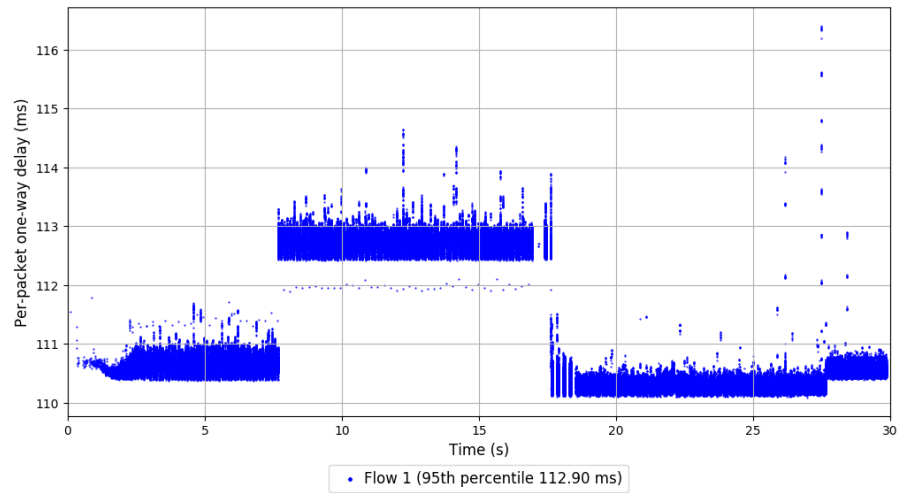
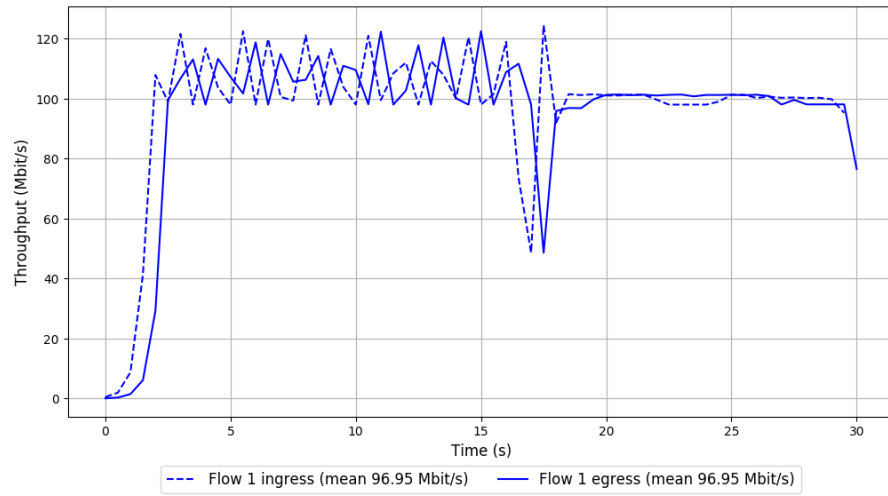


Run 4: Statistics of TCP BBR

Start at: 2018-06-18 20:03:06
End at: 2018-06-18 20:03:36
Local clock offset: -0.266 ms
Remote clock offset: -0.002 ms

Below is generated by plot.py at 2018-06-18 22:23:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 96.95 Mbit/s
95th percentile per-packet one-way delay: 112.896 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 96.95 Mbit/s
95th percentile per-packet one-way delay: 112.896 ms
Loss rate: 0.74%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-06-18 20:23:58

End at: 2018-06-18 20:24:28

Local clock offset: 1.396 ms

Remote clock offset: 0.046 ms

Below is generated by plot.py at 2018-06-18 22:23:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.16 Mbit/s

95th percentile per-packet one-way delay: 114.610 ms

Loss rate: 0.78%

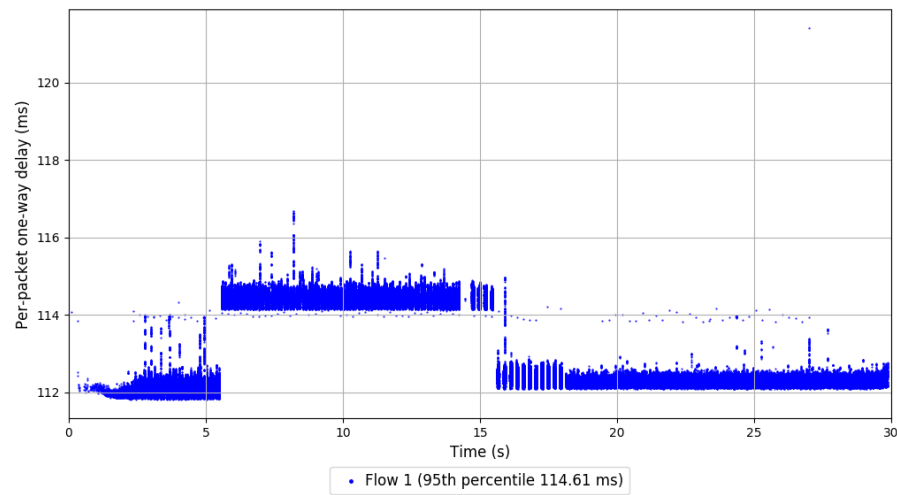
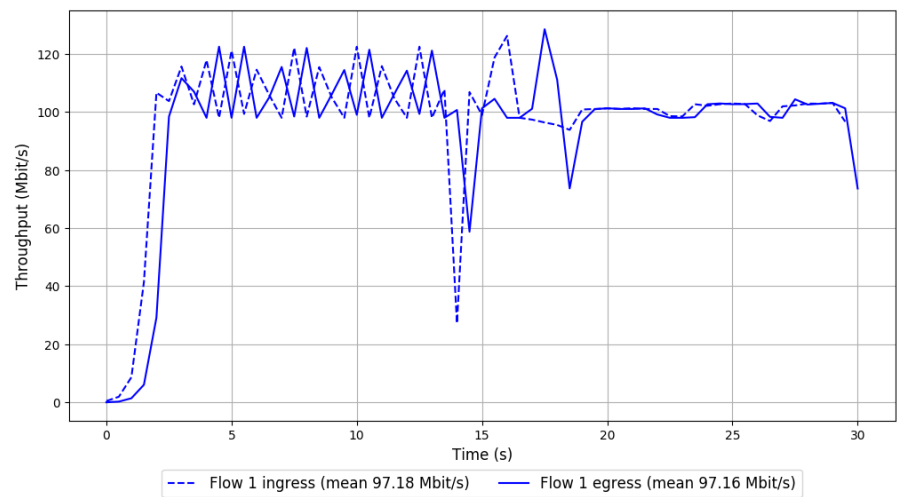
-- Flow 1:

Average throughput: 97.16 Mbit/s

95th percentile per-packet one-way delay: 114.610 ms

Loss rate: 0.78%

Run 5: Report of TCP BBR — Data Link

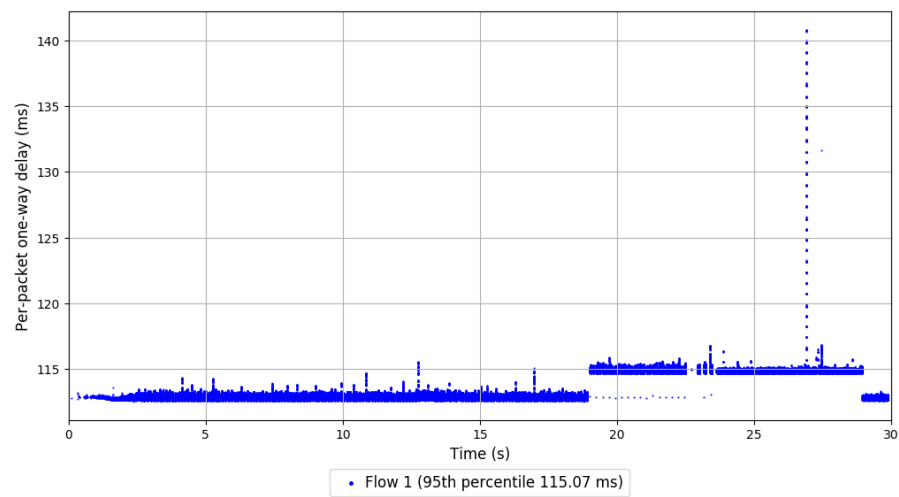
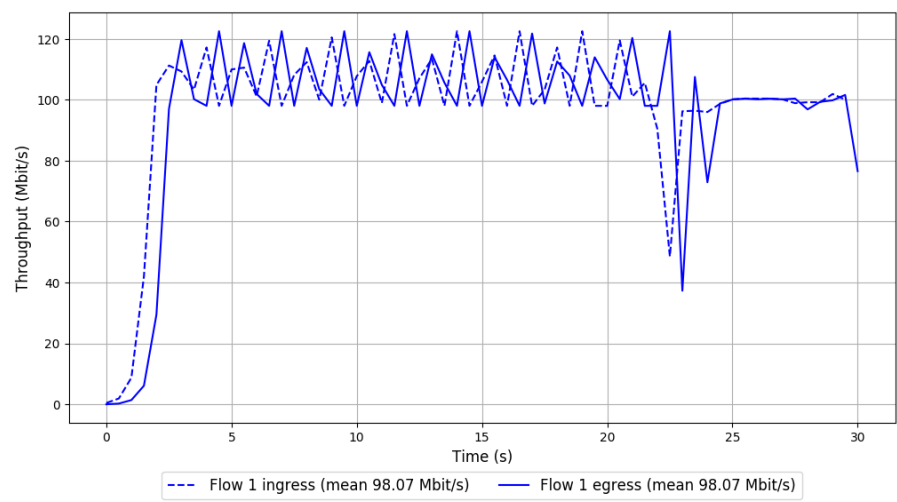


Run 6: Statistics of TCP BBR

Start at: 2018-06-18 20:44:34
End at: 2018-06-18 20:45:04
Local clock offset: -0.424 ms
Remote clock offset: -0.302 ms

Below is generated by plot.py at 2018-06-18 22:23:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 98.07 Mbit/s
95th percentile per-packet one-way delay: 115.071 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 98.07 Mbit/s
95th percentile per-packet one-way delay: 115.071 ms
Loss rate: 0.75%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-06-18 21:05:11

End at: 2018-06-18 21:05:41

Local clock offset: -0.097 ms

Remote clock offset: 0.004 ms

Below is generated by plot.py at 2018-06-18 22:23:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.10 Mbit/s

95th percentile per-packet one-way delay: 113.082 ms

Loss rate: 0.78%

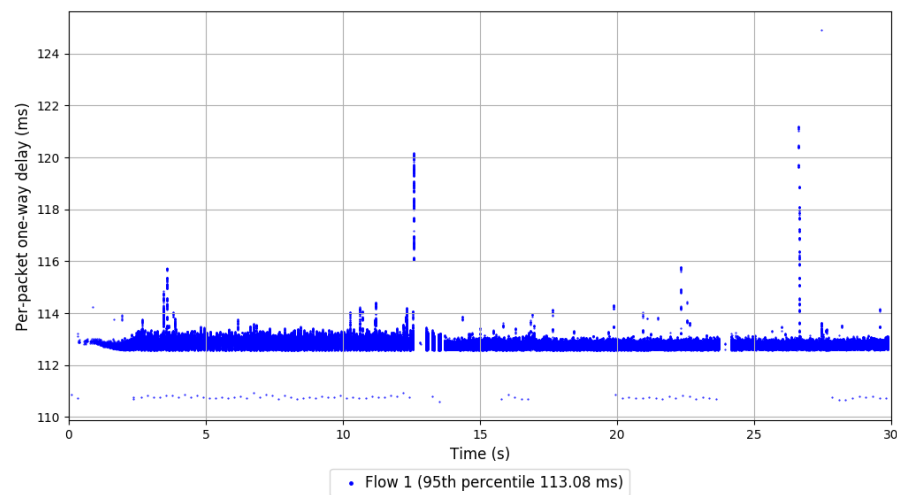
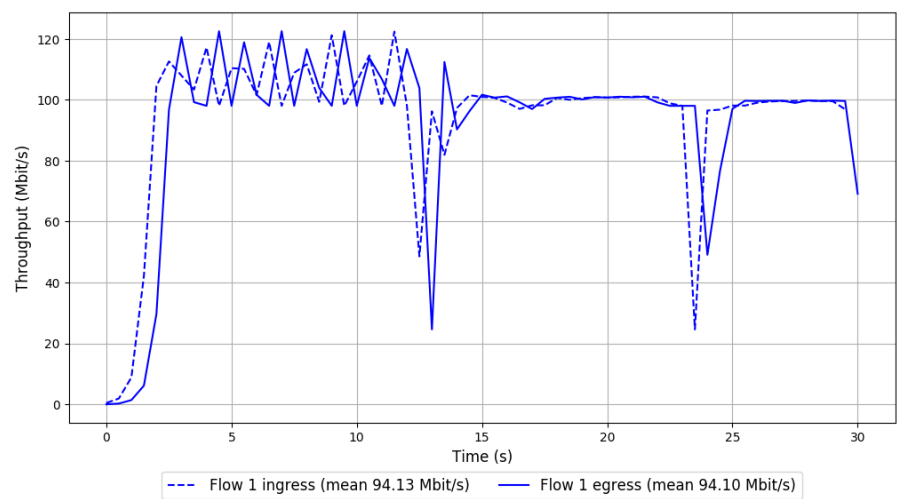
-- Flow 1:

Average throughput: 94.10 Mbit/s

95th percentile per-packet one-way delay: 113.082 ms

Loss rate: 0.78%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-06-18 21:26:07

End at: 2018-06-18 21:26:37

Local clock offset: -0.18 ms

Remote clock offset: 0.009 ms

Below is generated by plot.py at 2018-06-18 22:23:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 101.24 Mbit/s

95th percentile per-packet one-way delay: 111.112 ms

Loss rate: 0.81%

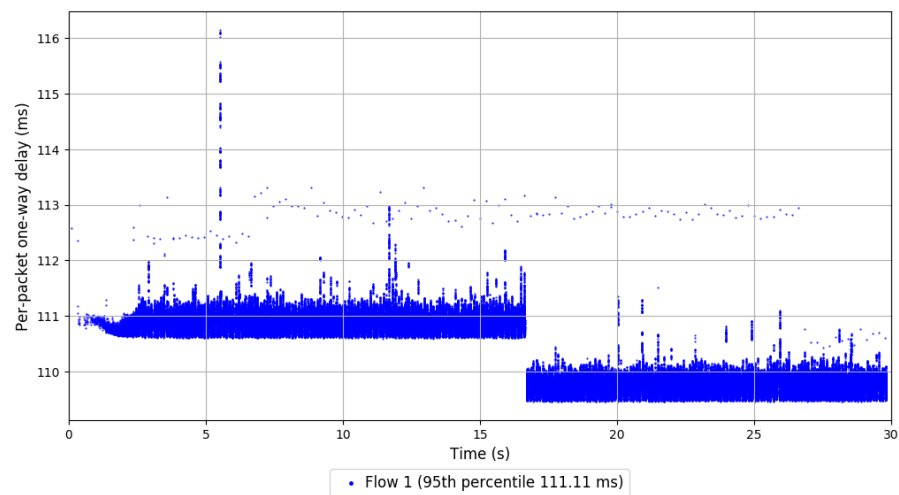
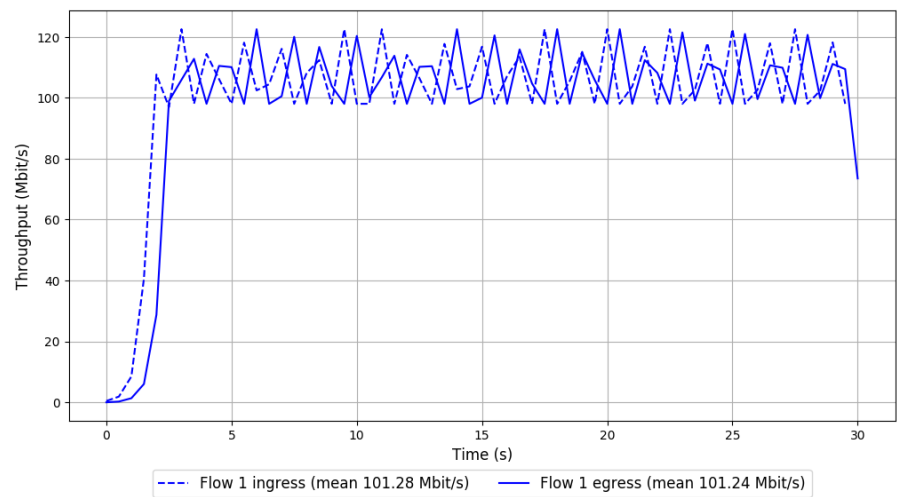
-- Flow 1:

Average throughput: 101.24 Mbit/s

95th percentile per-packet one-way delay: 111.112 ms

Loss rate: 0.81%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-06-18 21:47:08

End at: 2018-06-18 21:47:38

Local clock offset: 1.118 ms

Remote clock offset: 0.039 ms

Below is generated by plot.py at 2018-06-18 22:24:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.46 Mbit/s

95th percentile per-packet one-way delay: 112.209 ms

Loss rate: 0.76%

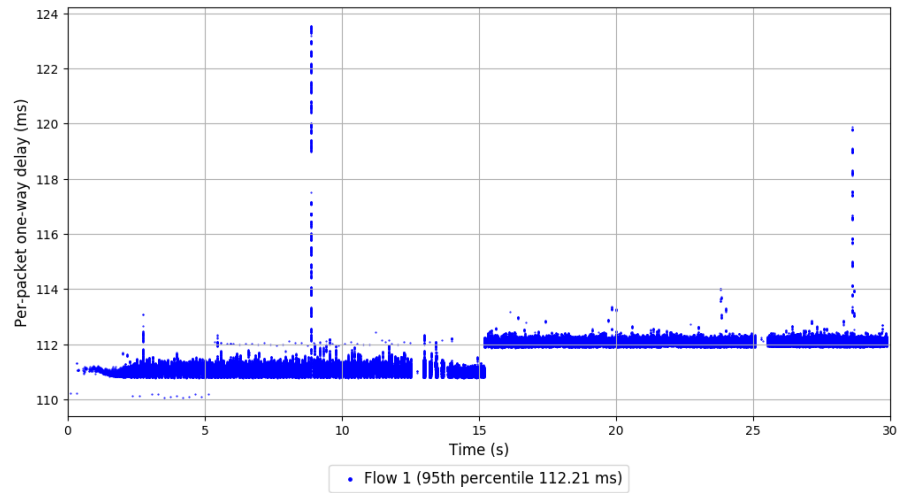
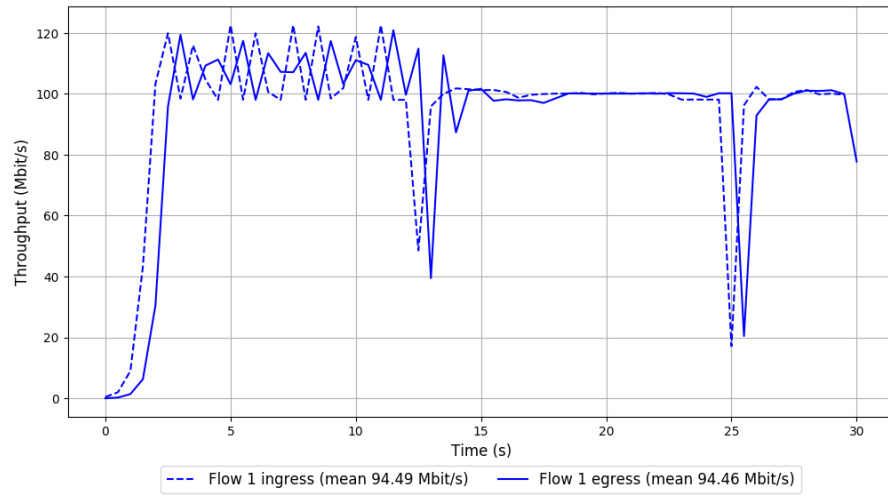
-- Flow 1:

Average throughput: 94.46 Mbit/s

95th percentile per-packet one-way delay: 112.209 ms

Loss rate: 0.76%

Run 9: Report of TCP BBR — Data Link

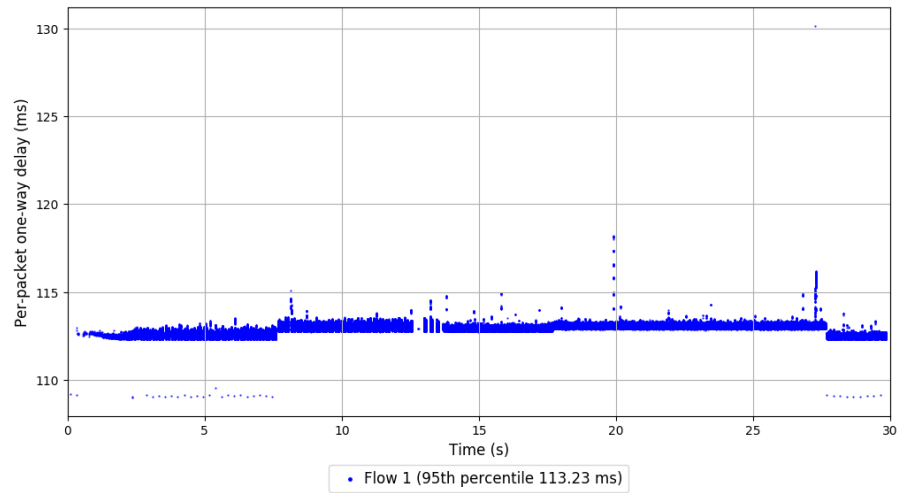
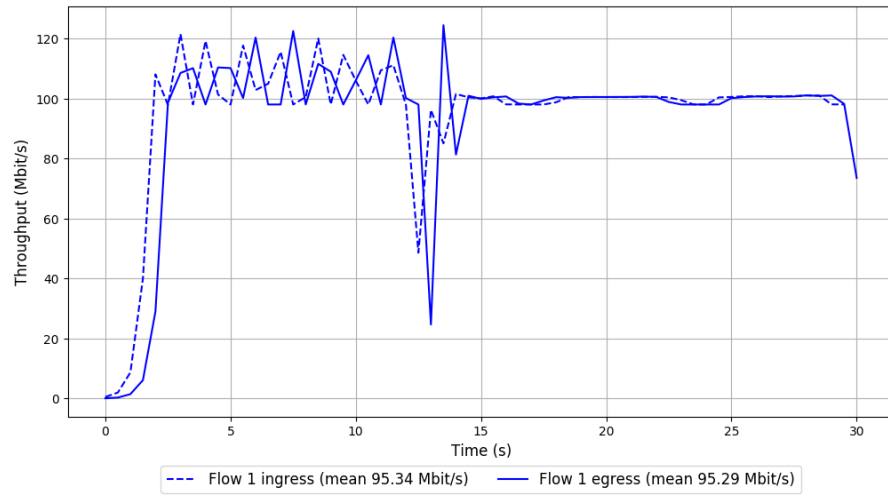


Run 10: Statistics of TCP BBR

Start at: 2018-06-18 22:08:16
End at: 2018-06-18 22:08:46
Local clock offset: -0.279 ms
Remote clock offset: -0.334 ms

Below is generated by plot.py at 2018-06-18 22:24:34
Datalink statistics
-- Total of 1 flow:
Average throughput: 95.29 Mbit/s
95th percentile per-packet one-way delay: 113.230 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 95.29 Mbit/s
95th percentile per-packet one-way delay: 113.230 ms
Loss rate: 0.86%

Run 10: Report of TCP BBR — Data Link

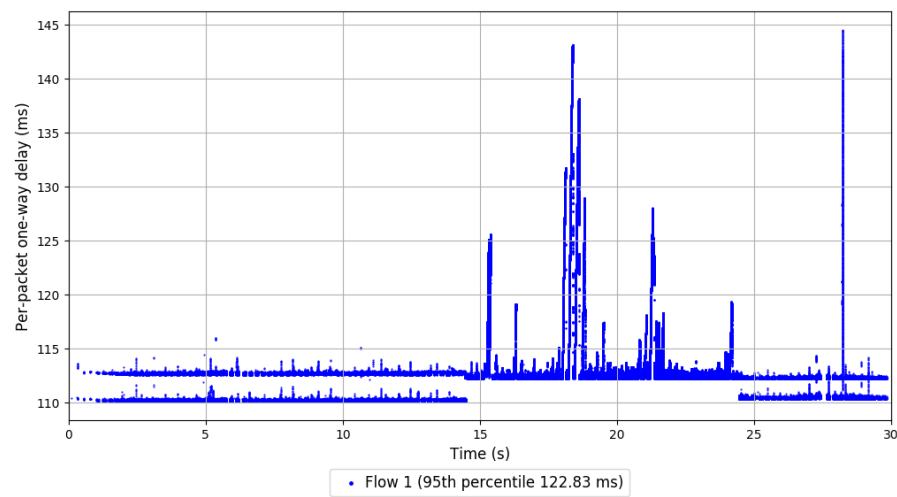
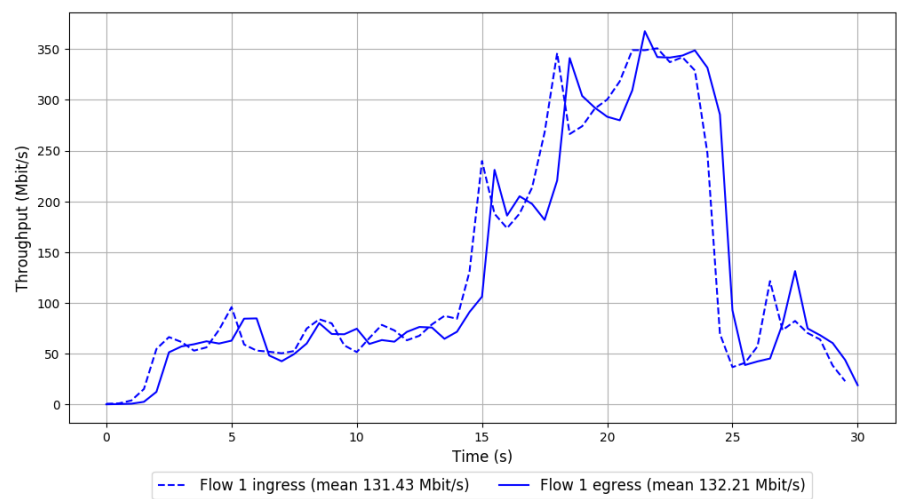


Run 1: Statistics of Copa

Start at: 2018-06-18 18:51:19
End at: 2018-06-18 18:51:49
Local clock offset: 0.075 ms
Remote clock offset: -0.024 ms

Below is generated by plot.py at 2018-06-18 22:27:07
Datalink statistics
-- Total of 1 flow:
Average throughput: 132.21 Mbit/s
95th percentile per-packet one-way delay: 122.830 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 132.21 Mbit/s
95th percentile per-packet one-way delay: 122.830 ms
Loss rate: 0.15%

Run 1: Report of Copa — Data Link

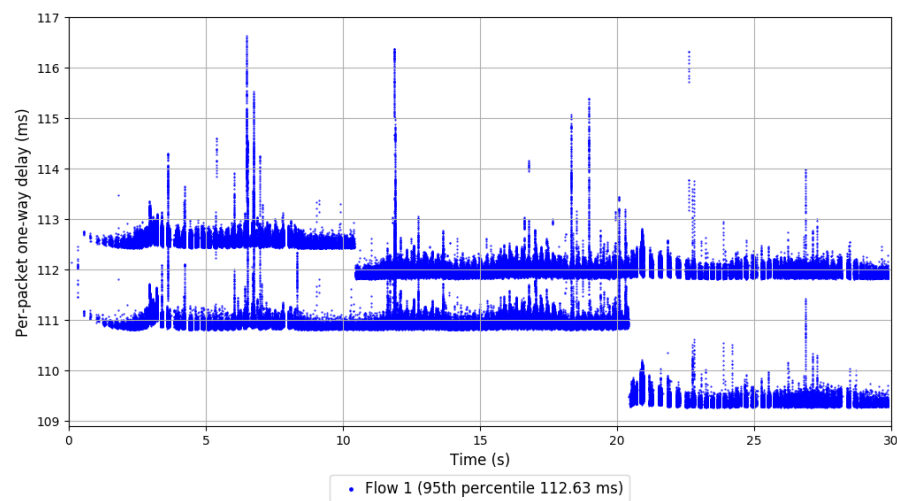
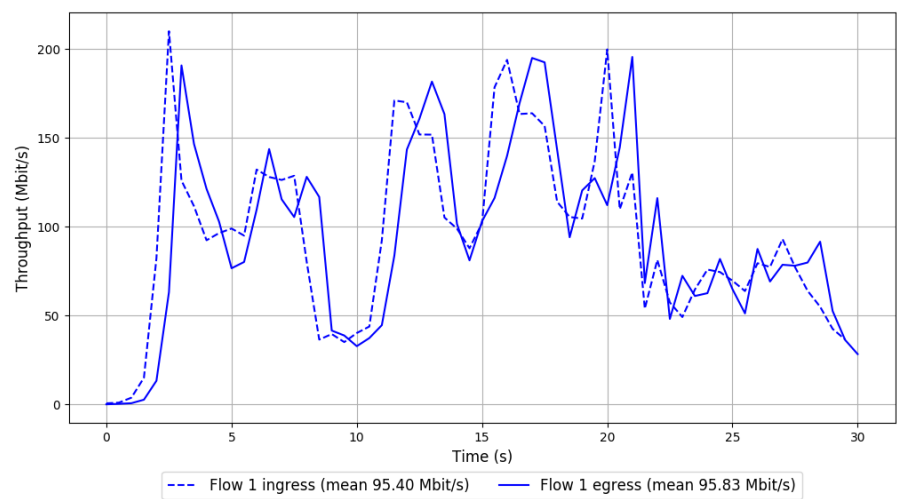


Run 2: Statistics of Copa

Start at: 2018-06-18 19:12:23
End at: 2018-06-18 19:12:53
Local clock offset: 0.112 ms
Remote clock offset: -0.338 ms

Below is generated by plot.py at 2018-06-18 22:27:07
Datalink statistics
-- Total of 1 flow:
Average throughput: 95.83 Mbit/s
95th percentile per-packet one-way delay: 112.627 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 95.83 Mbit/s
95th percentile per-packet one-way delay: 112.627 ms
Loss rate: 0.30%

Run 2: Report of Copa — Data Link

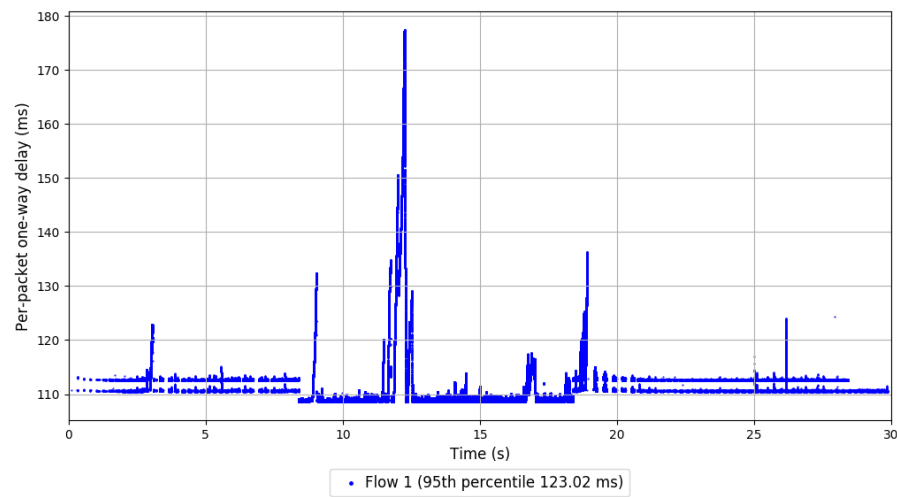
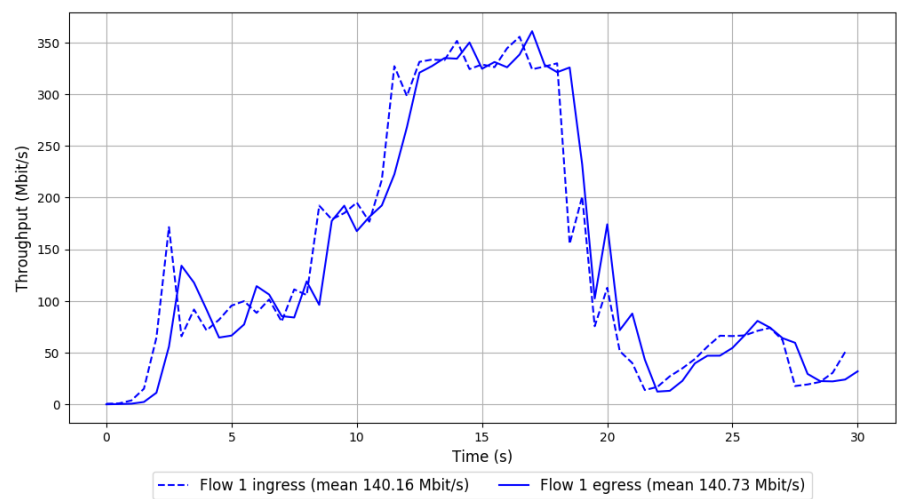


Run 3: Statistics of Copa

Start at: 2018-06-18 19:33:05
End at: 2018-06-18 19:33:35
Local clock offset: -0.092 ms
Remote clock offset: 0.091 ms

Below is generated by plot.py at 2018-06-18 22:27:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 140.73 Mbit/s
95th percentile per-packet one-way delay: 123.021 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 140.73 Mbit/s
95th percentile per-packet one-way delay: 123.021 ms
Loss rate: 0.33%

Run 3: Report of Copa — Data Link

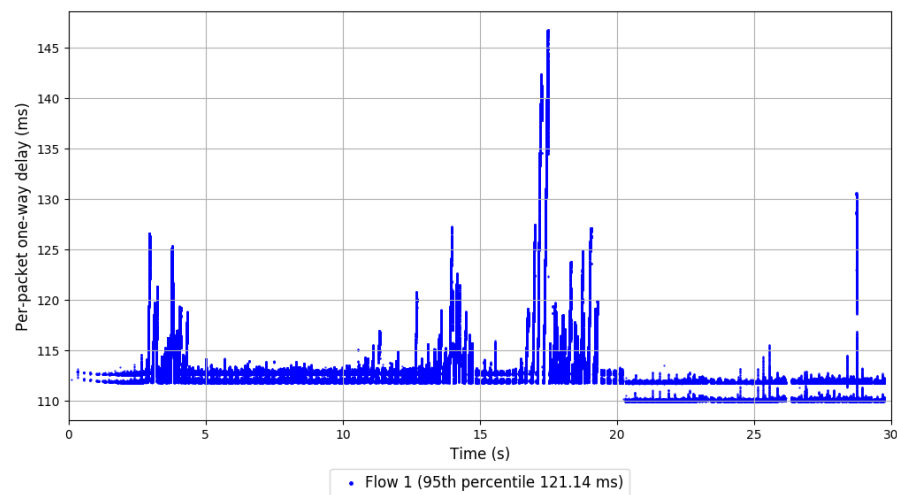
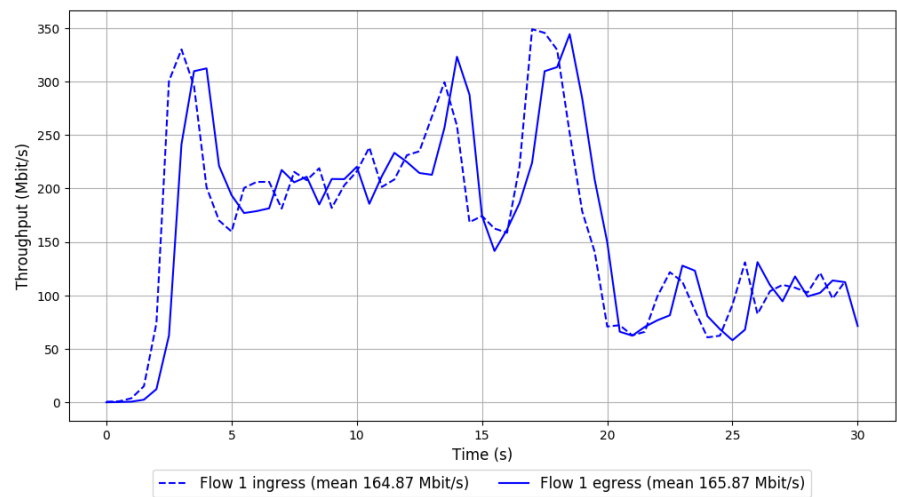


Run 4: Statistics of Copa

Start at: 2018-06-18 19:53:53
End at: 2018-06-18 19:54:23
Local clock offset: 1.112 ms
Remote clock offset: -0.035 ms

Below is generated by plot.py at 2018-06-18 22:28:17
Datalink statistics
-- Total of 1 flow:
Average throughput: 165.87 Mbit/s
95th percentile per-packet one-way delay: 121.135 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 165.87 Mbit/s
95th percentile per-packet one-way delay: 121.135 ms
Loss rate: 0.49%

Run 4: Report of Copa — Data Link

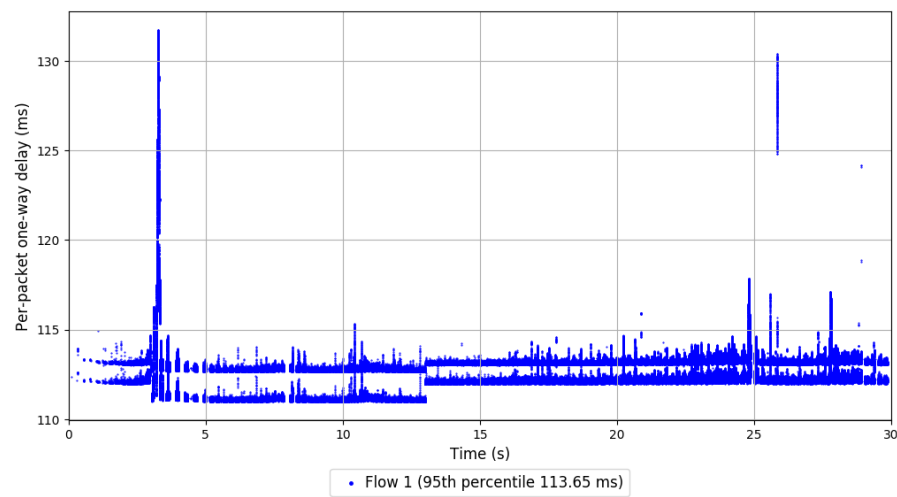
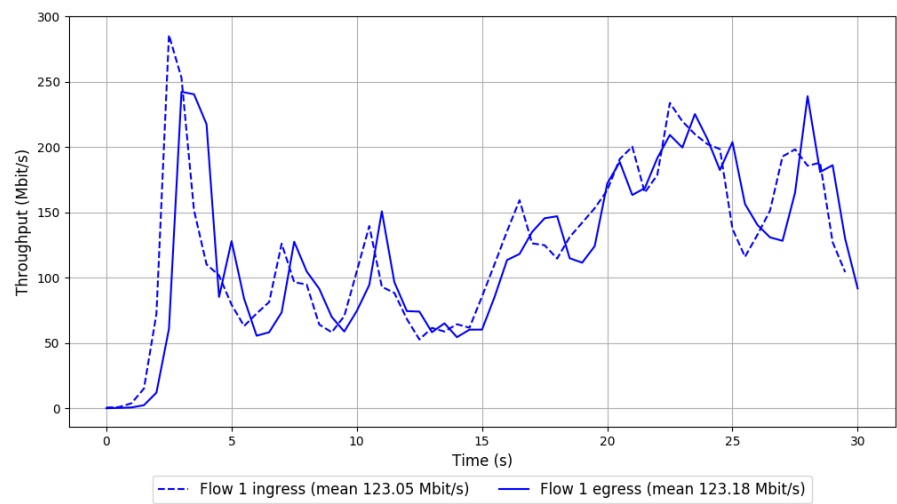


Run 5: Statistics of Copa

Start at: 2018-06-18 20:15:00
End at: 2018-06-18 20:15:30
Local clock offset: -0.097 ms
Remote clock offset: -0.414 ms

Below is generated by plot.py at 2018-06-18 22:28:17
Datalink statistics
-- Total of 1 flow:
Average throughput: 123.18 Mbit/s
95th percentile per-packet one-way delay: 113.646 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 123.18 Mbit/s
95th percentile per-packet one-way delay: 113.646 ms
Loss rate: 0.64%

Run 5: Report of Copa — Data Link

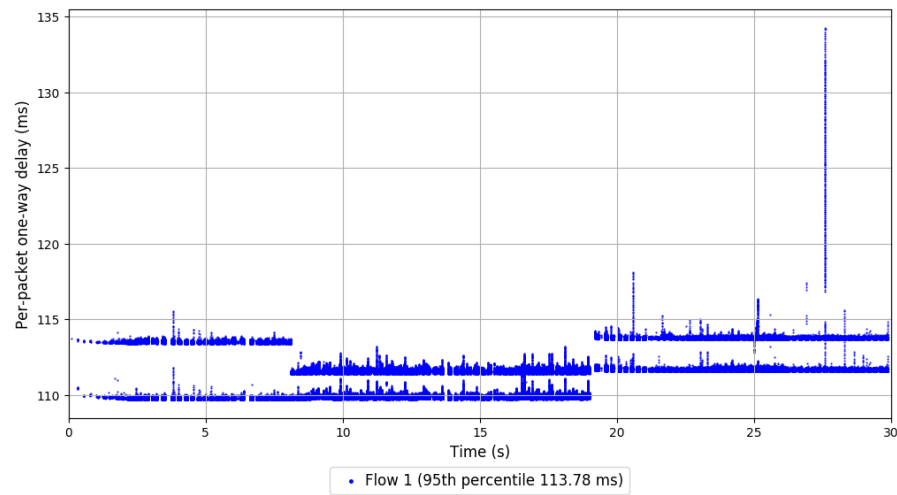
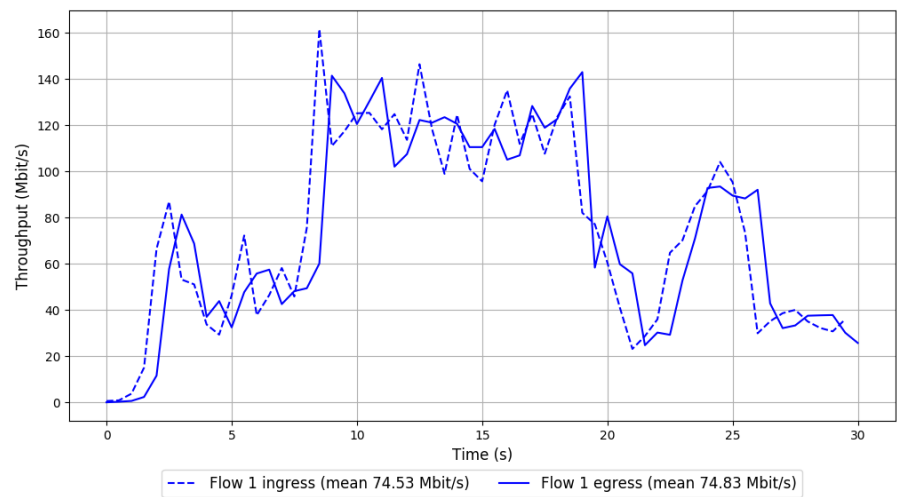


Run 6: Statistics of Copa

Start at: 2018-06-18 20:35:44
End at: 2018-06-18 20:36:14
Local clock offset: -1.375 ms
Remote clock offset: -0.306 ms

Below is generated by plot.py at 2018-06-18 22:28:17
Datalink statistics
-- Total of 1 flow:
Average throughput: 74.83 Mbit/s
95th percentile per-packet one-way delay: 113.776 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 74.83 Mbit/s
95th percentile per-packet one-way delay: 113.776 ms
Loss rate: 0.34%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-06-18 20:56:11

End at: 2018-06-18 20:56:41

Local clock offset: -1.562 ms

Remote clock offset: 0.034 ms

Below is generated by plot.py at 2018-06-18 22:28:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 120.65 Mbit/s

95th percentile per-packet one-way delay: 113.616 ms

Loss rate: 0.78%

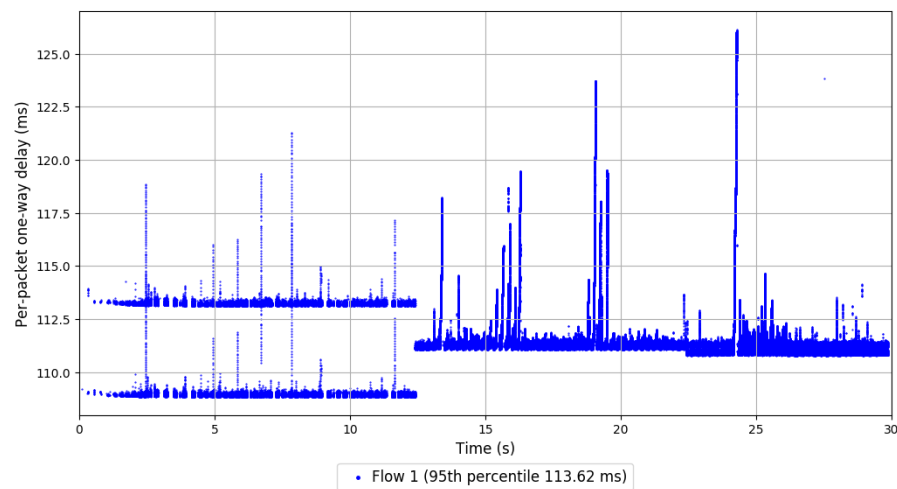
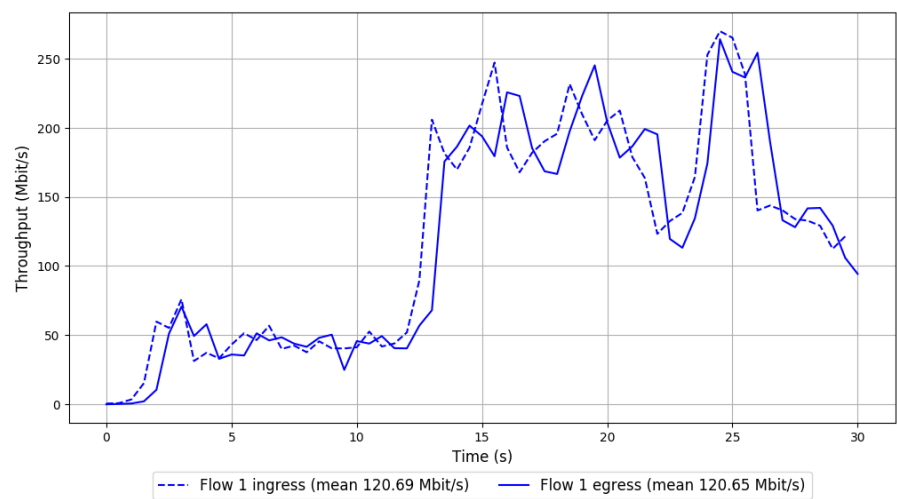
-- Flow 1:

Average throughput: 120.65 Mbit/s

95th percentile per-packet one-way delay: 113.616 ms

Loss rate: 0.78%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-06-18 21:17:06

End at: 2018-06-18 21:17:36

Local clock offset: -0.101 ms

Remote clock offset: -0.36 ms

Below is generated by plot.py at 2018-06-18 22:28:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 120.12 Mbit/s

95th percentile per-packet one-way delay: 117.074 ms

Loss rate: 0.23%

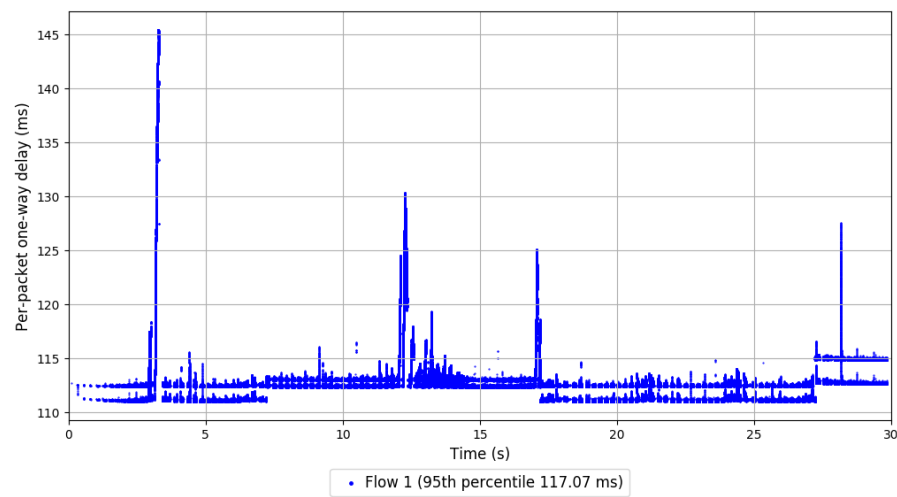
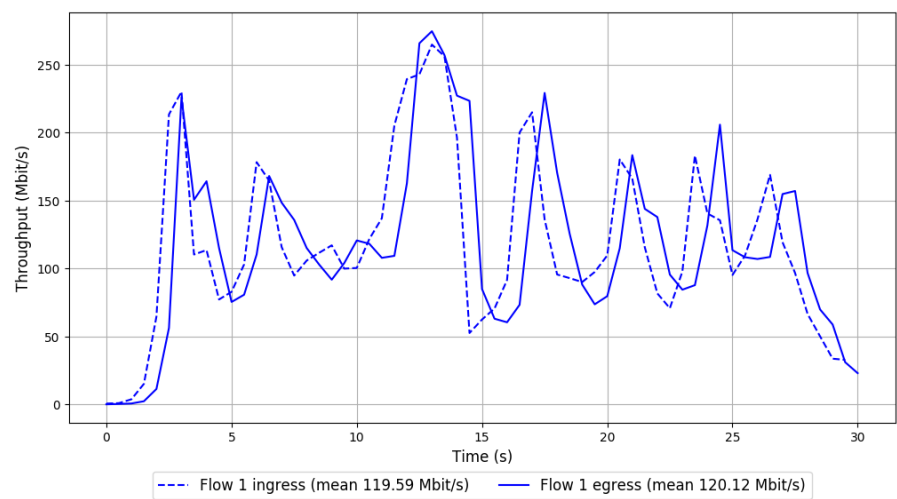
-- Flow 1:

Average throughput: 120.12 Mbit/s

95th percentile per-packet one-way delay: 117.074 ms

Loss rate: 0.23%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-06-18 21:37:56

End at: 2018-06-18 21:38:26

Local clock offset: -1.465 ms

Remote clock offset: 0.405 ms

Below is generated by plot.py at 2018-06-18 22:30:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 143.61 Mbit/s

95th percentile per-packet one-way delay: 124.693 ms

Loss rate: 0.63%

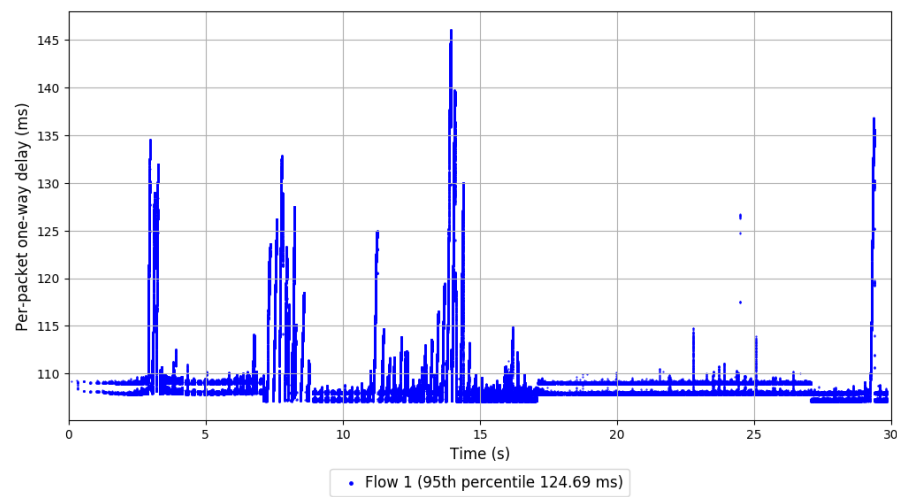
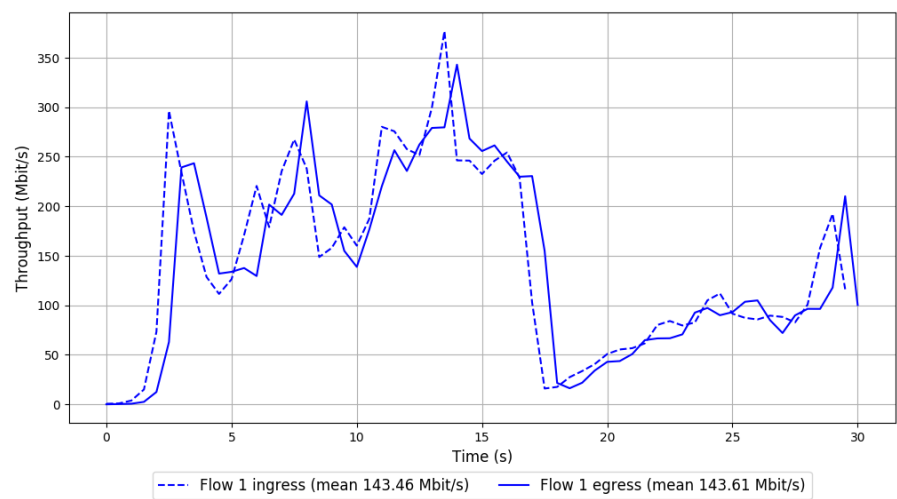
-- Flow 1:

Average throughput: 143.61 Mbit/s

95th percentile per-packet one-way delay: 124.693 ms

Loss rate: 0.63%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-06-18 21:59:15

End at: 2018-06-18 21:59:45

Local clock offset: -0.231 ms

Remote clock offset: 0.069 ms

Below is generated by plot.py at 2018-06-18 22:30:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.79 Mbit/s

95th percentile per-packet one-way delay: 112.854 ms

Loss rate: 0.51%

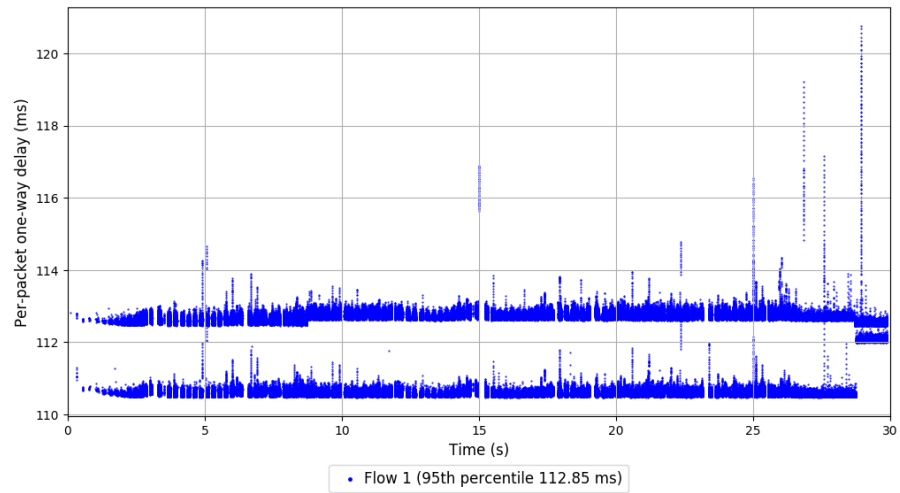
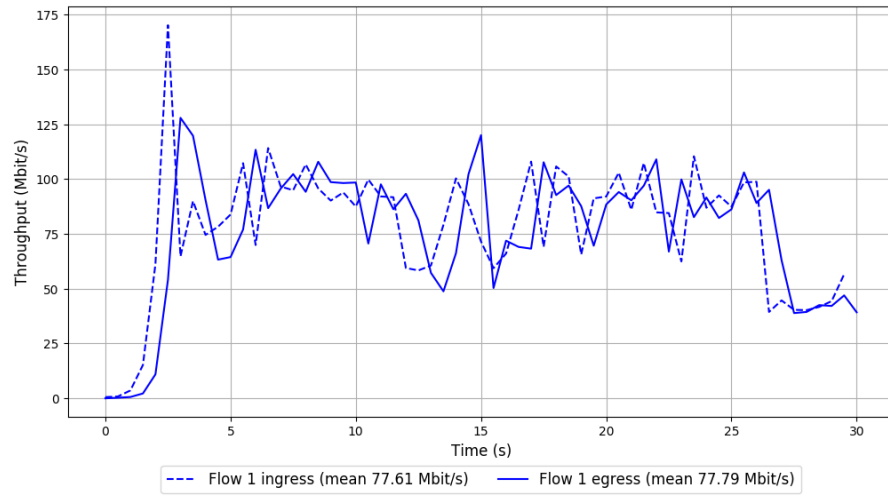
-- Flow 1:

Average throughput: 77.79 Mbit/s

95th percentile per-packet one-way delay: 112.854 ms

Loss rate: 0.51%

Run 10: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-06-18 18:50:07

End at: 2018-06-18 18:50:37

Local clock offset: 0.072 ms

Remote clock offset: 0.002 ms

Below is generated by plot.py at 2018-06-18 22:30:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.22 Mbit/s

95th percentile per-packet one-way delay: 115.384 ms

Loss rate: 0.97%

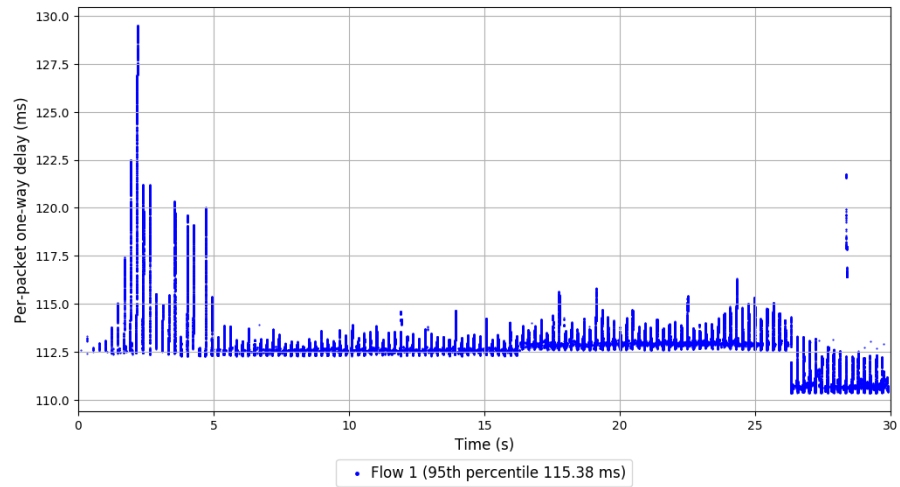
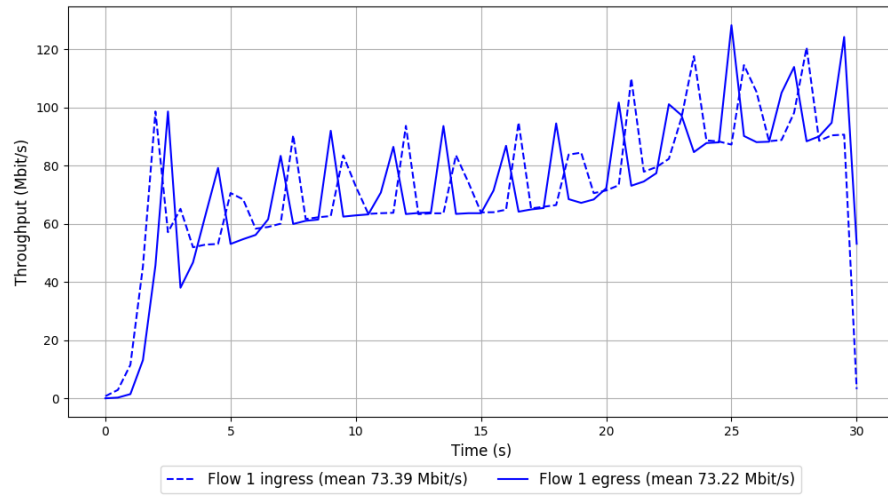
-- Flow 1:

Average throughput: 73.22 Mbit/s

95th percentile per-packet one-way delay: 115.384 ms

Loss rate: 0.97%

Run 1: Report of TCP Cubic — Data Link

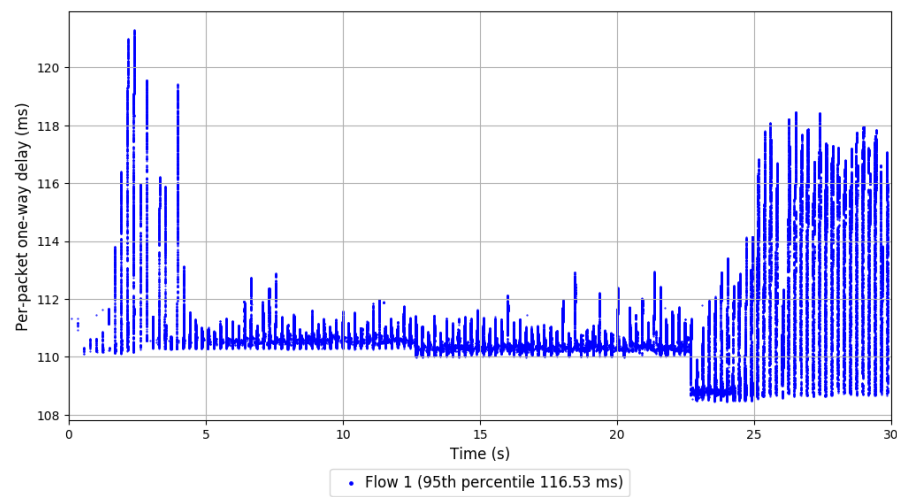
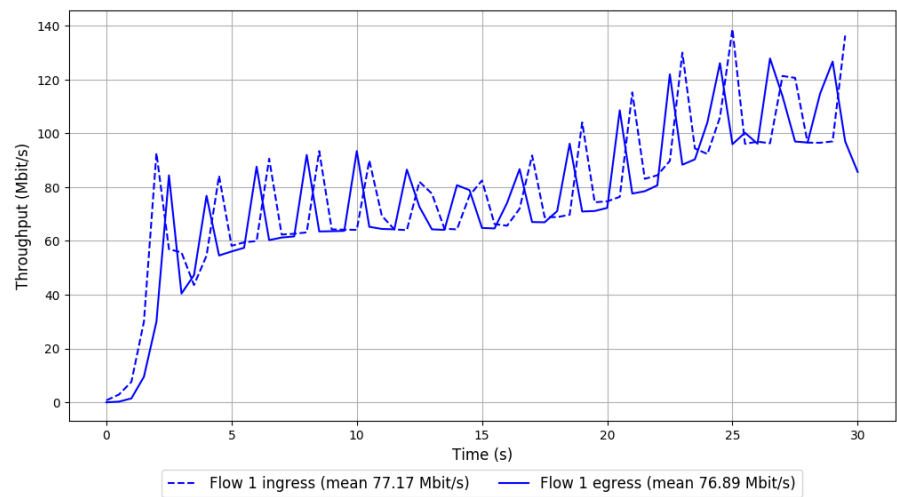


Run 2: Statistics of TCP Cubic

Start at: 2018-06-18 19:11:11
End at: 2018-06-18 19:11:41
Local clock offset: -0.384 ms
Remote clock offset: -0.003 ms

Below is generated by plot.py at 2018-06-18 22:30:15
Datalink statistics
-- Total of 1 flow:
Average throughput: 76.89 Mbit/s
95th percentile per-packet one-way delay: 116.527 ms
Loss rate: 1.09%
-- Flow 1:
Average throughput: 76.89 Mbit/s
95th percentile per-packet one-way delay: 116.527 ms
Loss rate: 1.09%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-06-18 19:31:53

End at: 2018-06-18 19:32:23

Local clock offset: 0.008 ms

Remote clock offset: 0.026 ms

Below is generated by plot.py at 2018-06-18 22:30:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.50 Mbit/s

95th percentile per-packet one-way delay: 119.284 ms

Loss rate: 1.12%

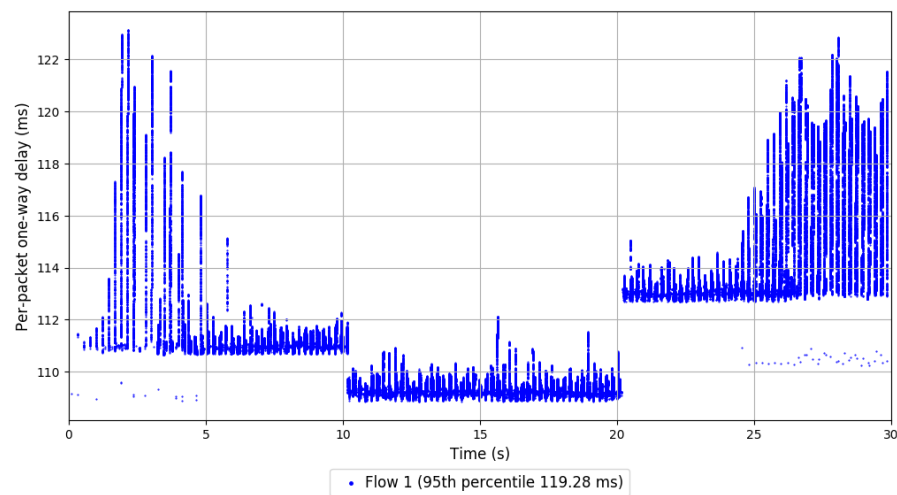
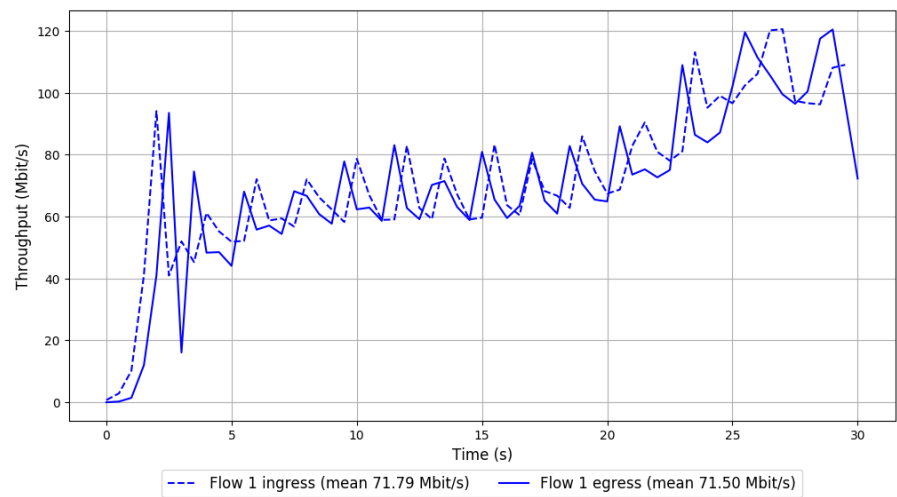
-- Flow 1:

Average throughput: 71.50 Mbit/s

95th percentile per-packet one-way delay: 119.284 ms

Loss rate: 1.12%

Run 3: Report of TCP Cubic — Data Link

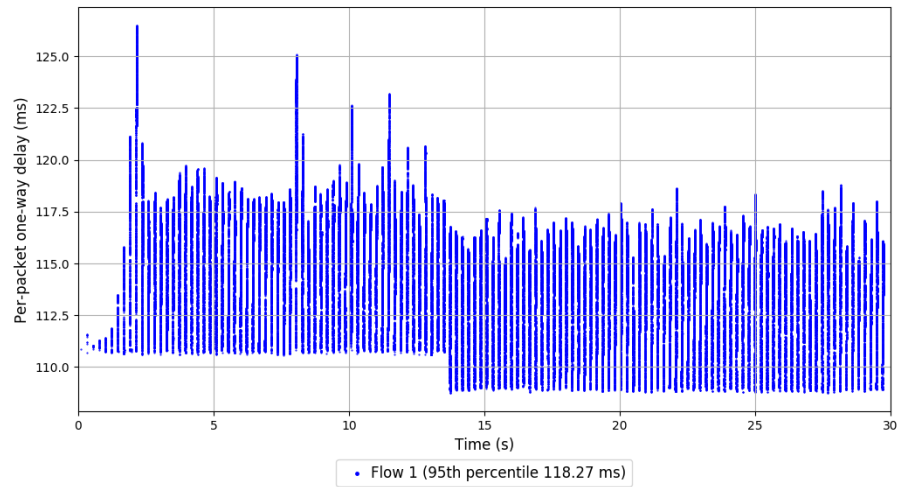
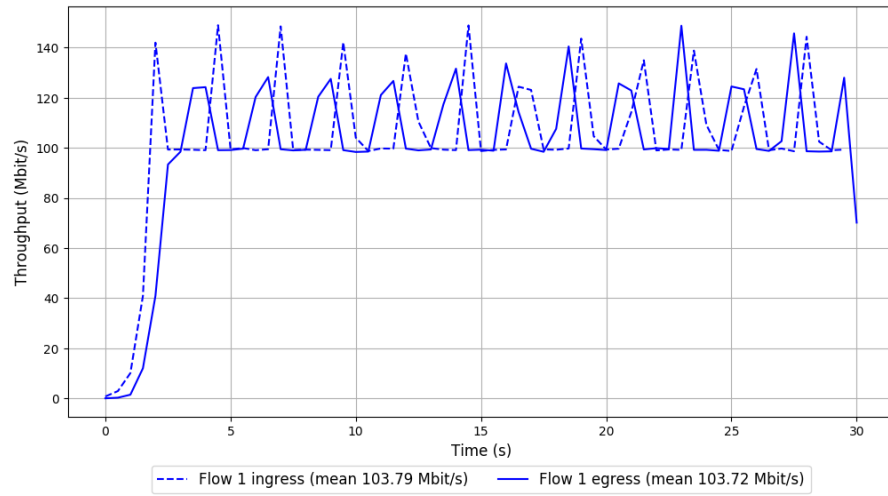


Run 4: Statistics of TCP Cubic

Start at: 2018-06-18 19:52:40
End at: 2018-06-18 19:53:10
Local clock offset: -0.188 ms
Remote clock offset: -0.037 ms

Below is generated by plot.py at 2018-06-18 22:30:15
Datalink statistics
-- Total of 1 flow:
Average throughput: 103.72 Mbit/s
95th percentile per-packet one-way delay: 118.273 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 103.72 Mbit/s
95th percentile per-packet one-way delay: 118.273 ms
Loss rate: 0.81%

Run 4: Report of TCP Cubic — Data Link

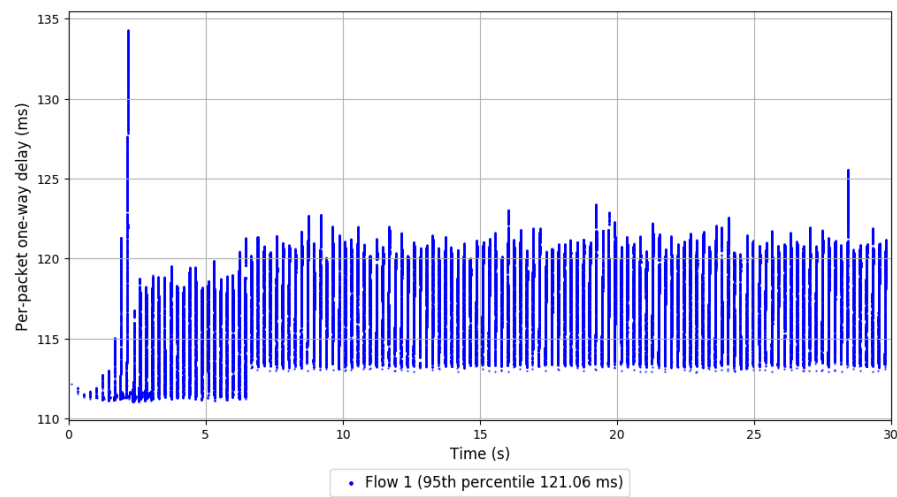
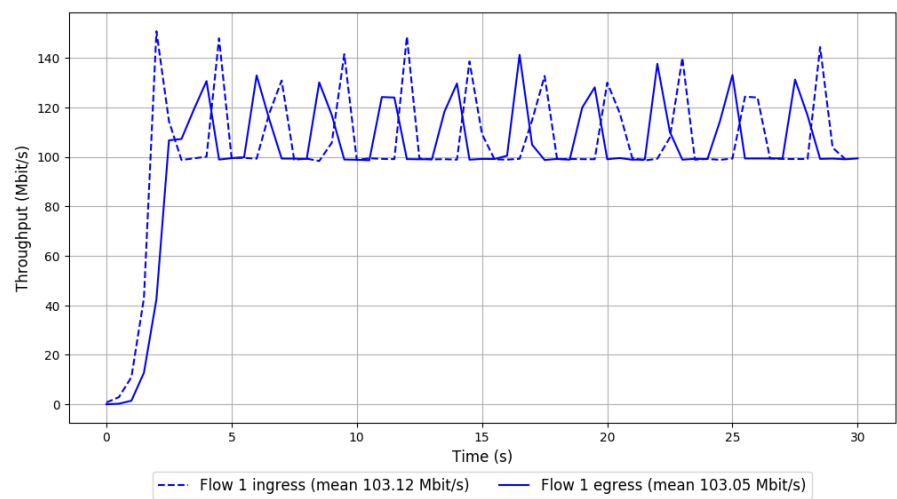


Run 5: Statistics of TCP Cubic

Start at: 2018-06-18 20:13:47
End at: 2018-06-18 20:14:17
Local clock offset: 0.307 ms
Remote clock offset: -0.066 ms

Below is generated by plot.py at 2018-06-18 22:30:15
Datalink statistics
-- Total of 1 flow:
Average throughput: 103.05 Mbit/s
95th percentile per-packet one-way delay: 121.063 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 103.05 Mbit/s
95th percentile per-packet one-way delay: 121.063 ms
Loss rate: 0.80%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-06-18 20:34:32

End at: 2018-06-18 20:35:02

Local clock offset: -0.212 ms

Remote clock offset: 0.428 ms

Below is generated by plot.py at 2018-06-18 22:30:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.30 Mbit/s

95th percentile per-packet one-way delay: 119.802 ms

Loss rate: 1.01%

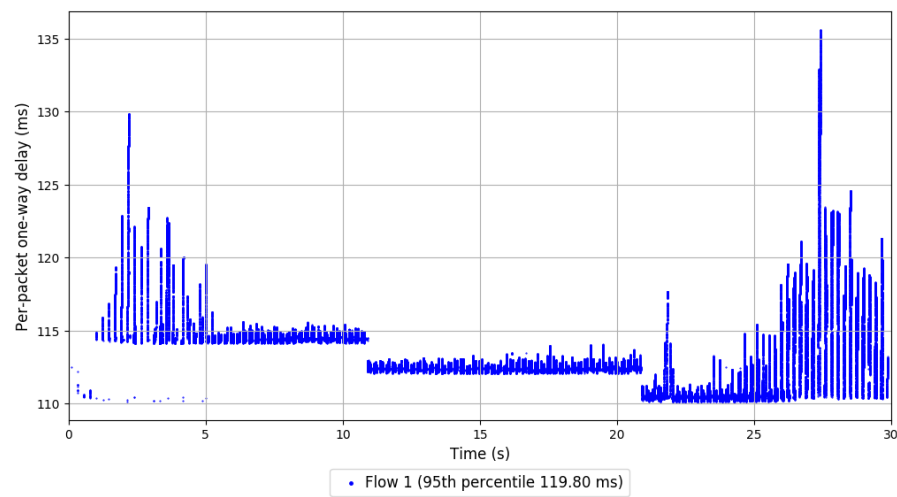
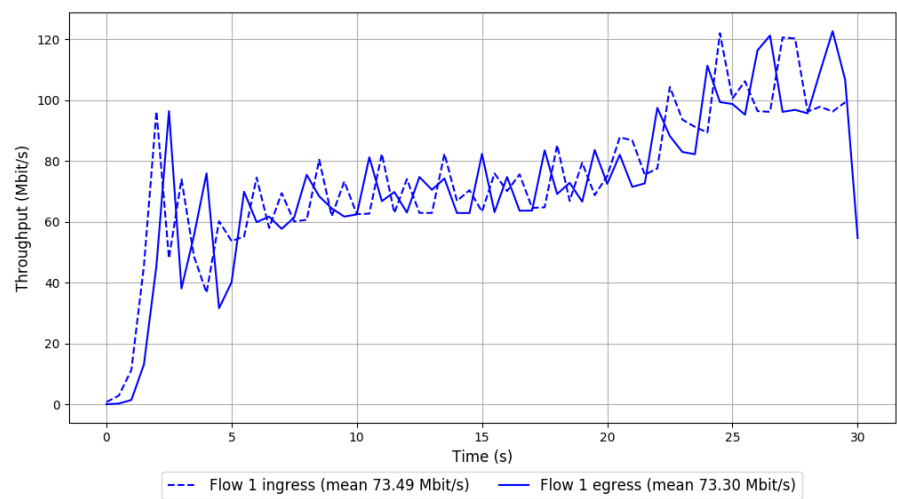
-- Flow 1:

Average throughput: 73.30 Mbit/s

95th percentile per-packet one-way delay: 119.802 ms

Loss rate: 1.01%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-06-18 20:54:57

End at: 2018-06-18 20:55:27

Local clock offset: -0.056 ms

Remote clock offset: 0.073 ms

Below is generated by plot.py at 2018-06-18 22:30:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 102.61 Mbit/s

95th percentile per-packet one-way delay: 122.860 ms

Loss rate: 0.80%

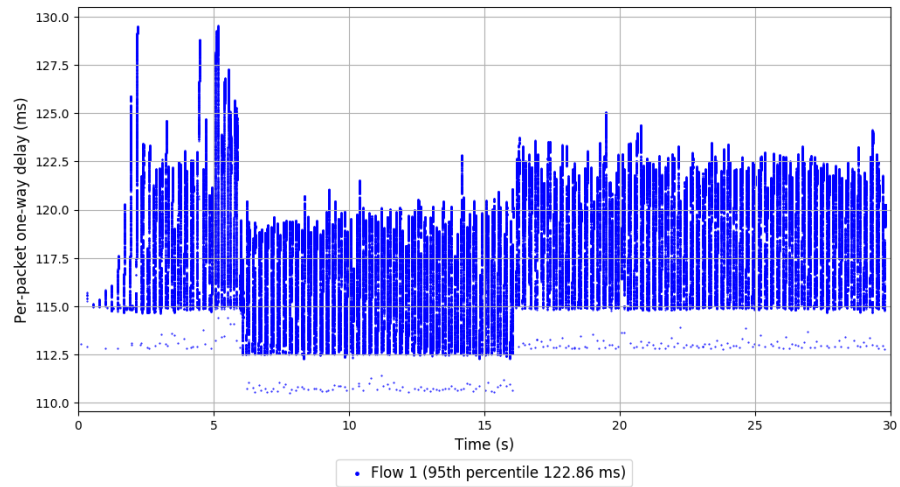
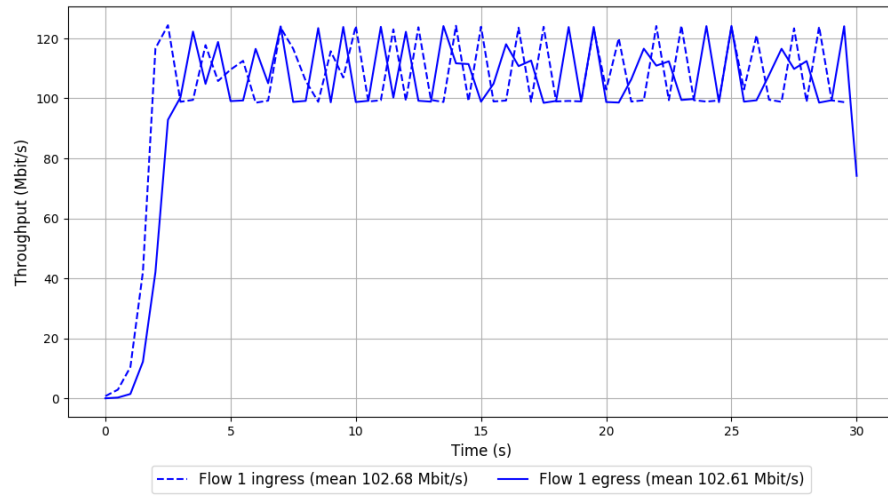
-- Flow 1:

Average throughput: 102.61 Mbit/s

95th percentile per-packet one-way delay: 122.860 ms

Loss rate: 0.80%

Run 7: Report of TCP Cubic — Data Link

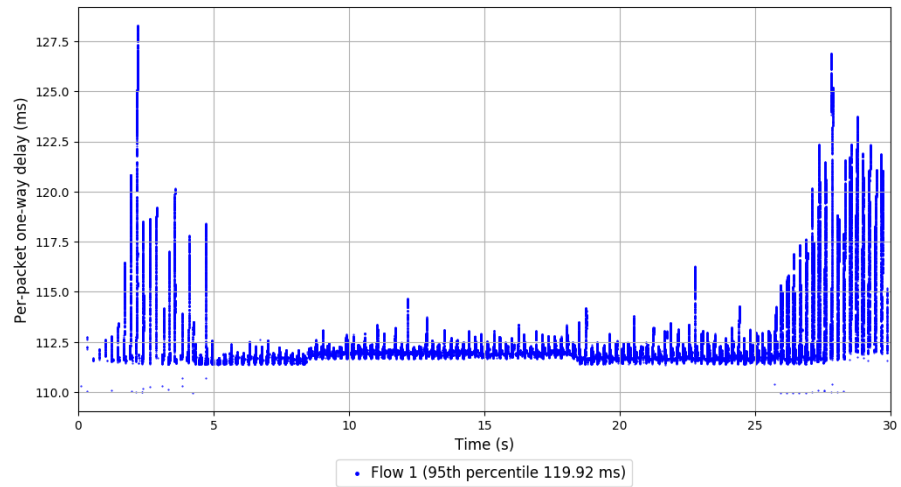
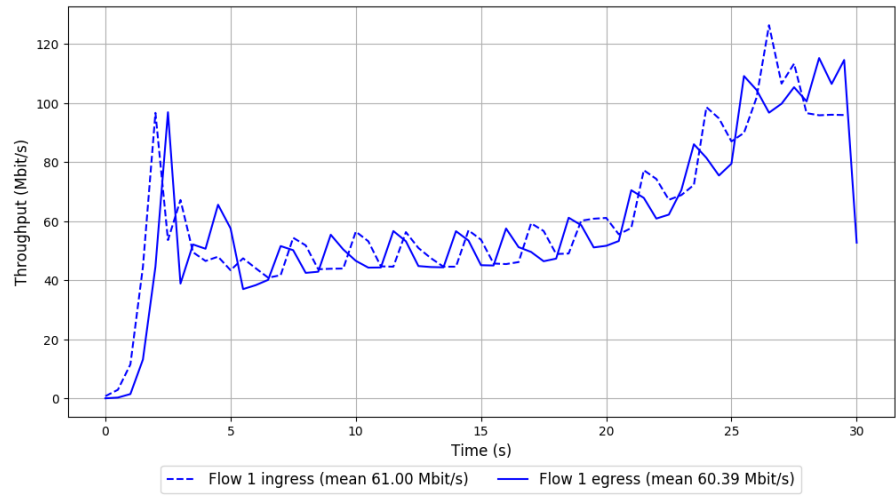


Run 8: Statistics of TCP Cubic

Start at: 2018-06-18 21:15:55
End at: 2018-06-18 21:16:25
Local clock offset: -1.38 ms
Remote clock offset: -0.371 ms

Below is generated by plot.py at 2018-06-18 22:30:15
Datalink statistics
-- Total of 1 flow:
Average throughput: 60.39 Mbit/s
95th percentile per-packet one-way delay: 119.916 ms
Loss rate: 1.19%
-- Flow 1:
Average throughput: 60.39 Mbit/s
95th percentile per-packet one-way delay: 119.916 ms
Loss rate: 1.19%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-06-18 21:36:43

End at: 2018-06-18 21:37:13

Local clock offset: -0.312 ms

Remote clock offset: 0.096 ms

Below is generated by plot.py at 2018-06-18 22:30:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 103.43 Mbit/s

95th percentile per-packet one-way delay: 118.735 ms

Loss rate: 0.86%

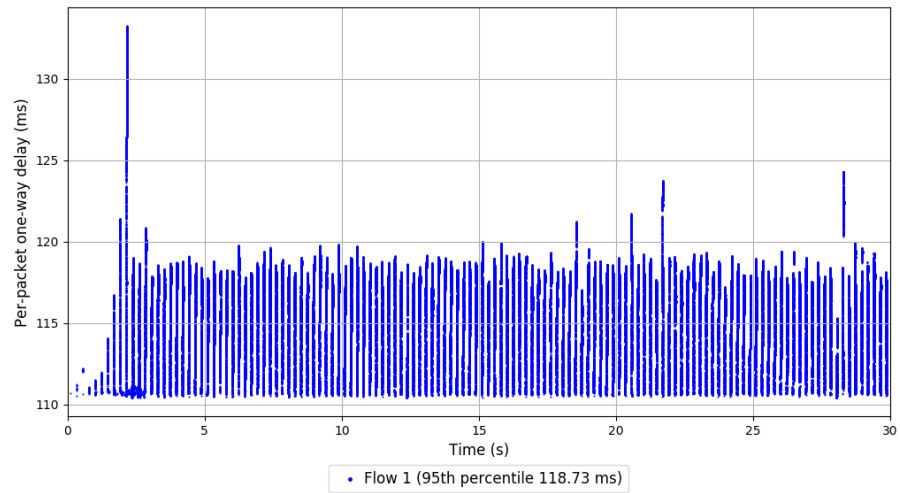
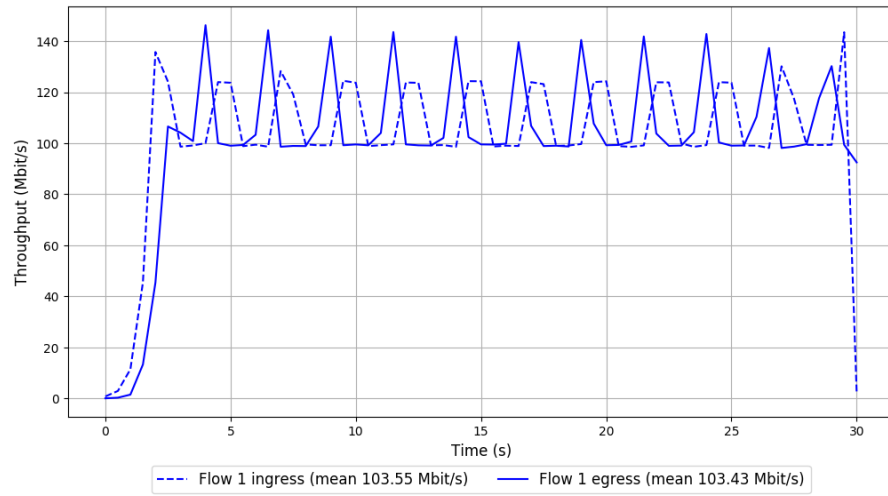
-- Flow 1:

Average throughput: 103.43 Mbit/s

95th percentile per-packet one-way delay: 118.735 ms

Loss rate: 0.86%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-06-18 21:58:01

End at: 2018-06-18 21:58:31

Local clock offset: -1.324 ms

Remote clock offset: 0.449 ms

Below is generated by plot.py at 2018-06-18 22:30:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 98.84 Mbit/s

95th percentile per-packet one-way delay: 118.386 ms

Loss rate: 0.33%

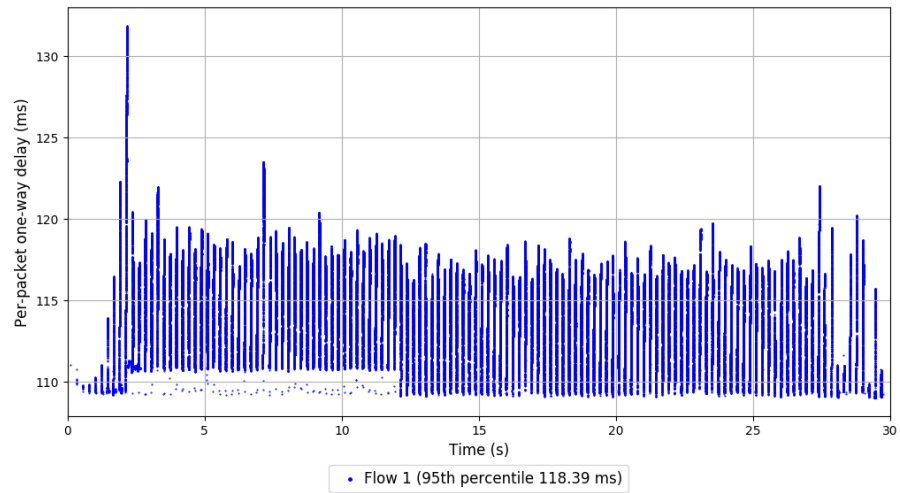
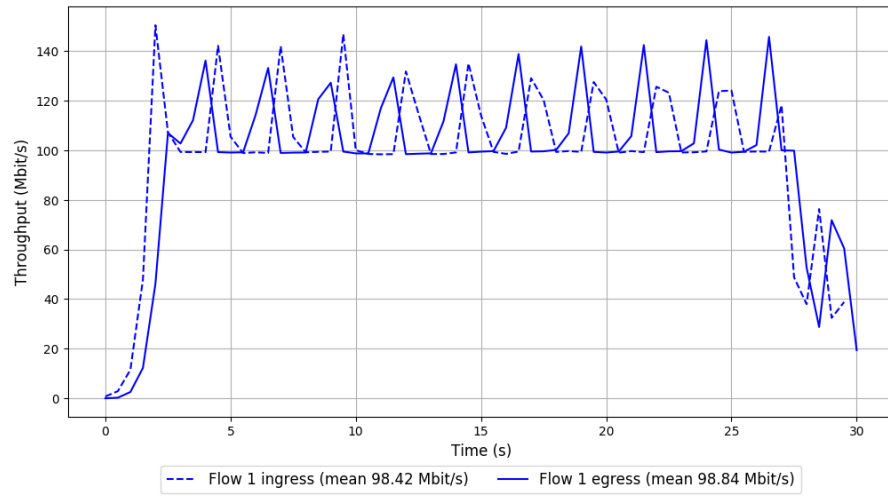
-- Flow 1:

Average throughput: 98.84 Mbit/s

95th percentile per-packet one-way delay: 118.386 ms

Loss rate: 0.33%

Run 10: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2018-06-18 18:44:50

End at: 2018-06-18 18:45:20

Local clock offset: -1.293 ms

Remote clock offset: 0.337 ms

Below is generated by plot.py at 2018-06-18 22:46:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 857.29 Mbit/s

95th percentile per-packet one-way delay: 172.026 ms

Loss rate: 1.49%

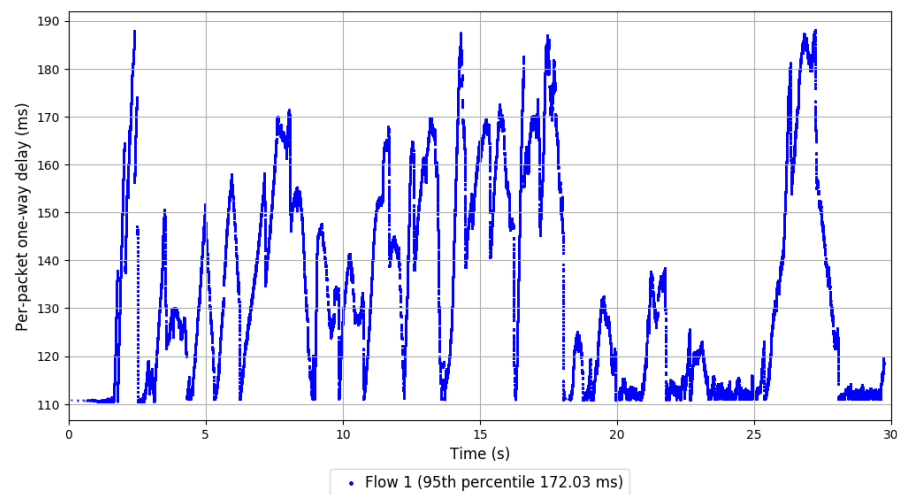
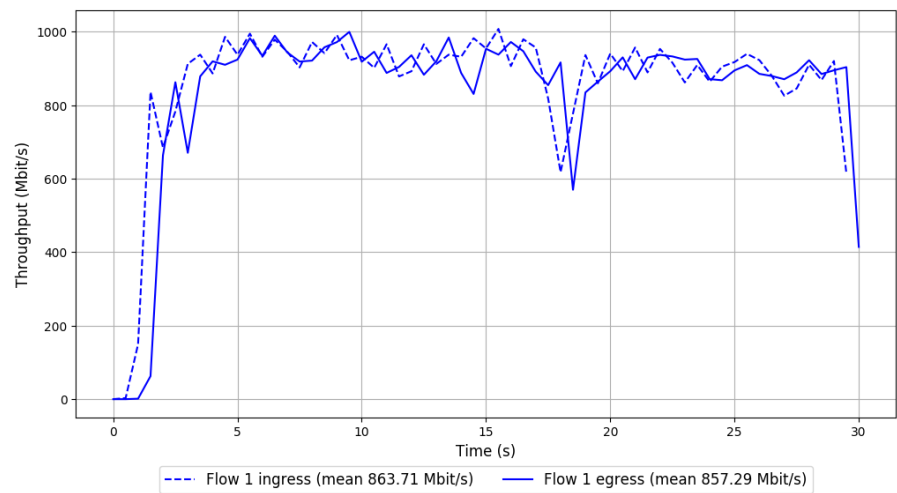
-- Flow 1:

Average throughput: 857.29 Mbit/s

95th percentile per-packet one-way delay: 172.026 ms

Loss rate: 1.49%

Run 1: Report of FillP — Data Link

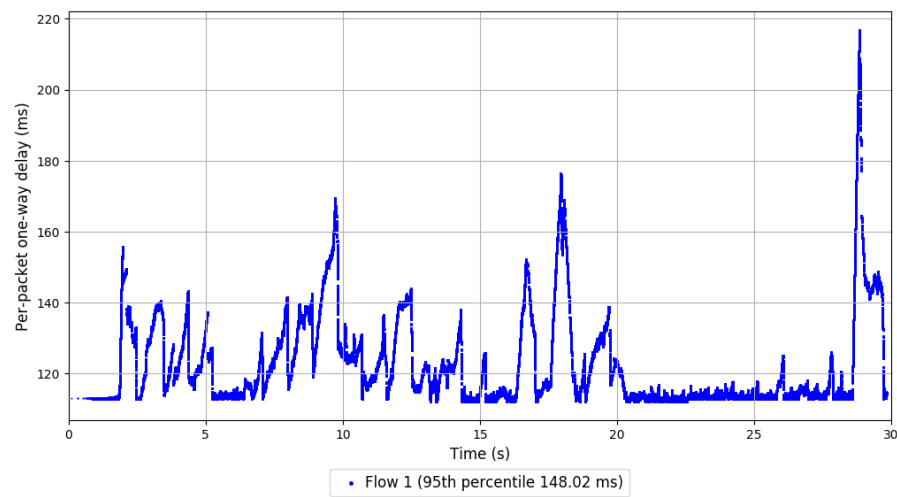
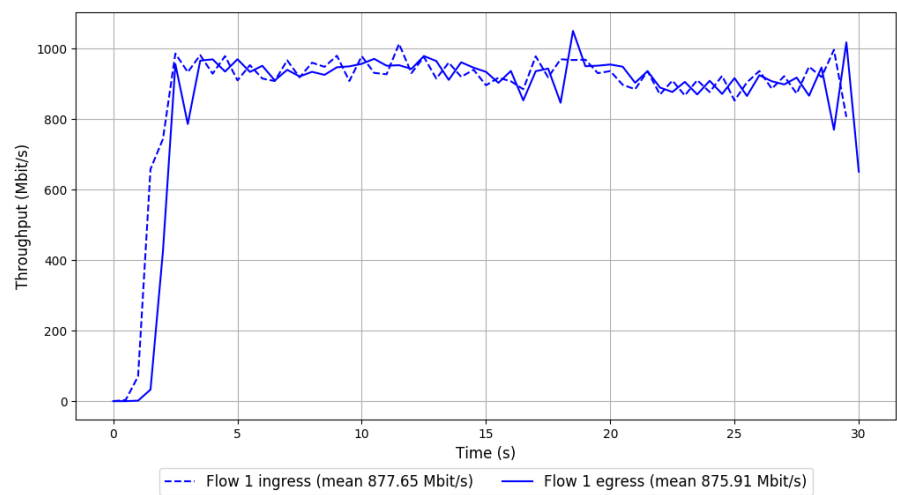


Run 2: Statistics of FillP

Start at: 2018-06-18 19:05:51
End at: 2018-06-18 19:06:21
Local clock offset: 0.264 ms
Remote clock offset: -0.363 ms

Below is generated by plot.py at 2018-06-18 22:46:32
Datalink statistics
-- Total of 1 flow:
Average throughput: 875.91 Mbit/s
95th percentile per-packet one-way delay: 148.022 ms
Loss rate: 0.95%
-- Flow 1:
Average throughput: 875.91 Mbit/s
95th percentile per-packet one-way delay: 148.022 ms
Loss rate: 0.95%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-06-18 19:26:32

End at: 2018-06-18 19:27:02

Local clock offset: -0.035 ms

Remote clock offset: 0.052 ms

Below is generated by plot.py at 2018-06-18 22:46:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 809.38 Mbit/s

95th percentile per-packet one-way delay: 184.912 ms

Loss rate: 4.85%

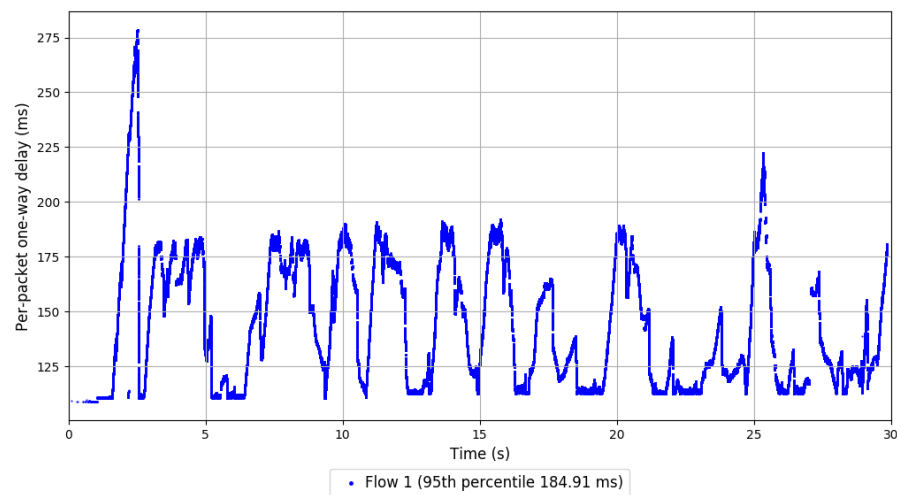
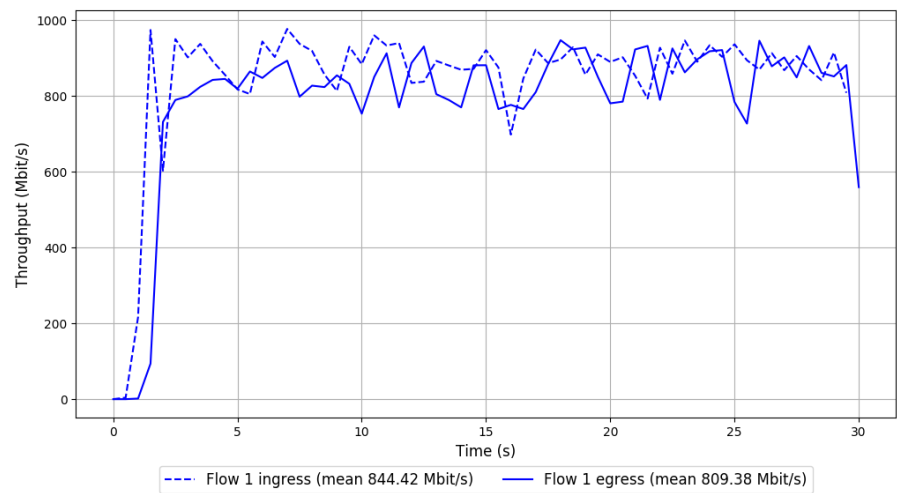
-- Flow 1:

Average throughput: 809.38 Mbit/s

95th percentile per-packet one-way delay: 184.912 ms

Loss rate: 4.85%

Run 3: Report of FillP — Data Link

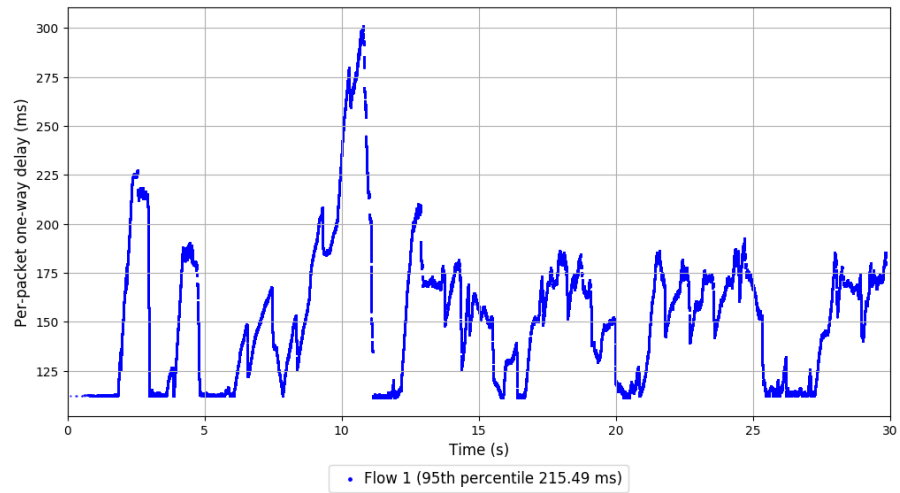
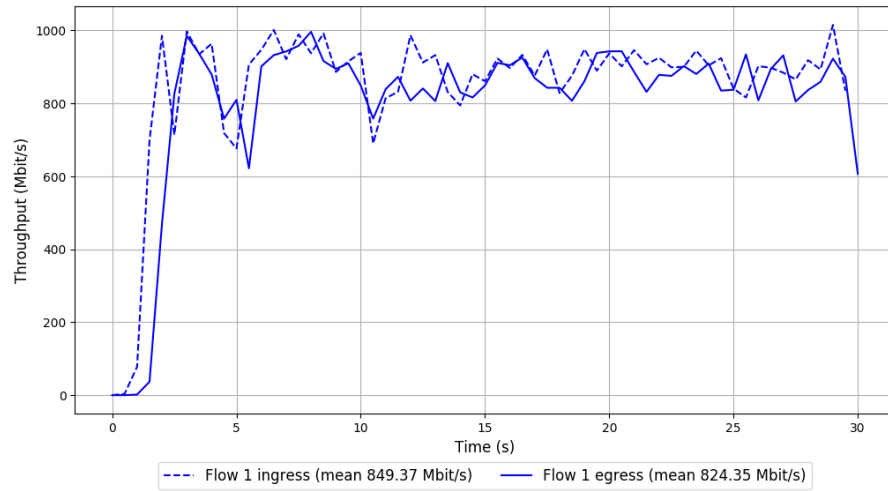


Run 4: Statistics of FillP

Start at: 2018-06-18 19:47:23
End at: 2018-06-18 19:47:53
Local clock offset: -0.376 ms
Remote clock offset: -0.042 ms

Below is generated by plot.py at 2018-06-18 22:46:32
Datalink statistics
-- Total of 1 flow:
Average throughput: 824.35 Mbit/s
95th percentile per-packet one-way delay: 215.493 ms
Loss rate: 3.66%
-- Flow 1:
Average throughput: 824.35 Mbit/s
95th percentile per-packet one-way delay: 215.493 ms
Loss rate: 3.66%

Run 4: Report of FillP — Data Link

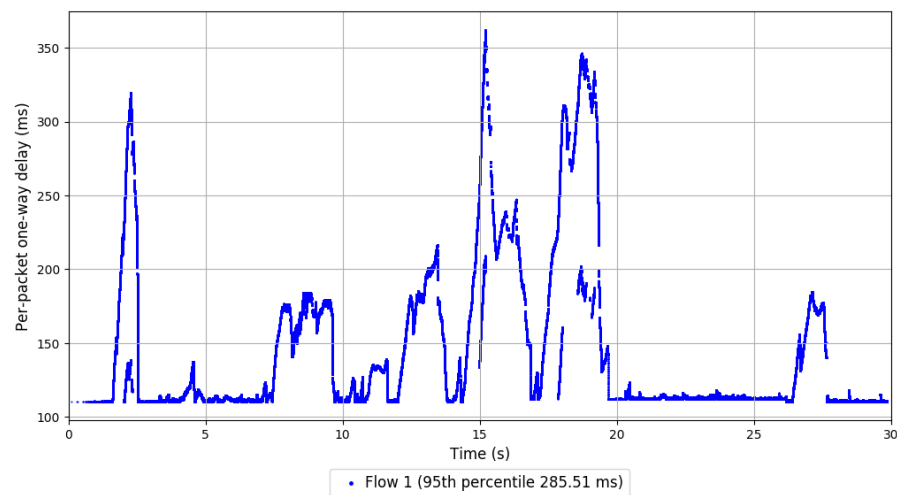
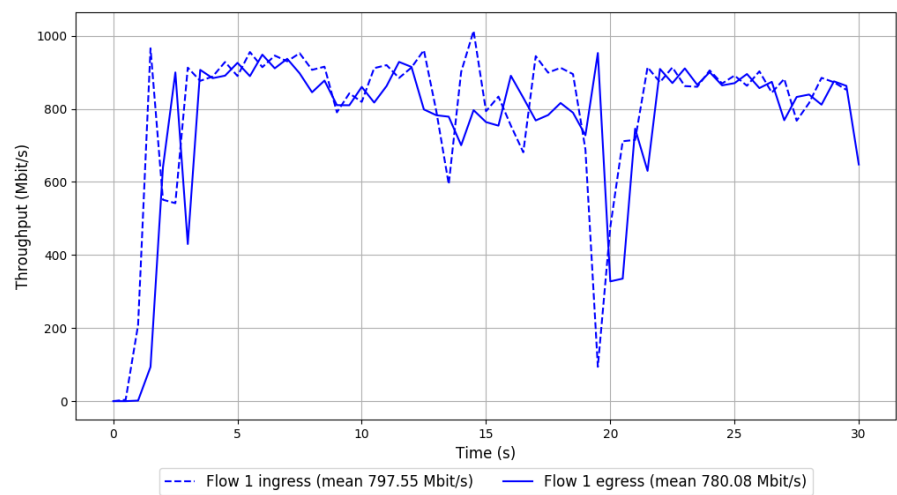


Run 5: Statistics of FillP

Start at: 2018-06-18 20:08:27
End at: 2018-06-18 20:08:57
Local clock offset: -0.088 ms
Remote clock offset: -0.448 ms

Below is generated by plot.py at 2018-06-18 22:46:32
Datalink statistics
-- Total of 1 flow:
Average throughput: 780.08 Mbit/s
95th percentile per-packet one-way delay: 285.508 ms
Loss rate: 2.92%
-- Flow 1:
Average throughput: 780.08 Mbit/s
95th percentile per-packet one-way delay: 285.508 ms
Loss rate: 2.92%

Run 5: Report of FillP — Data Link

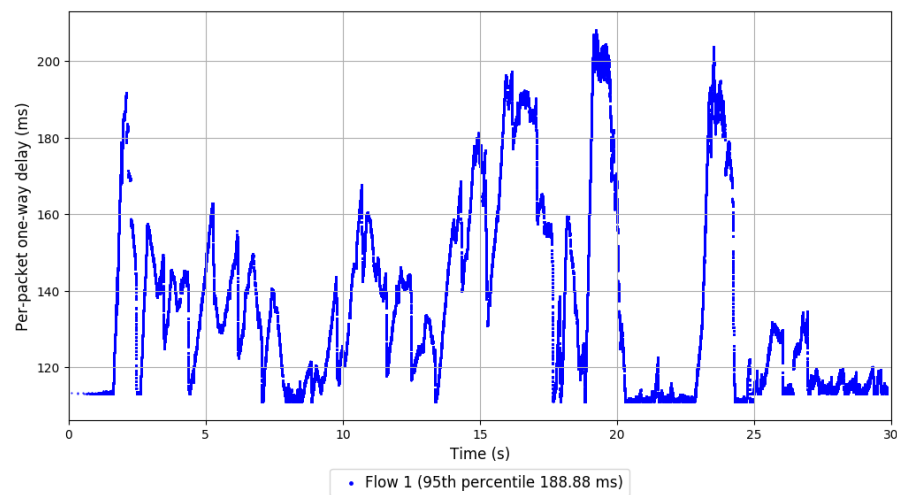
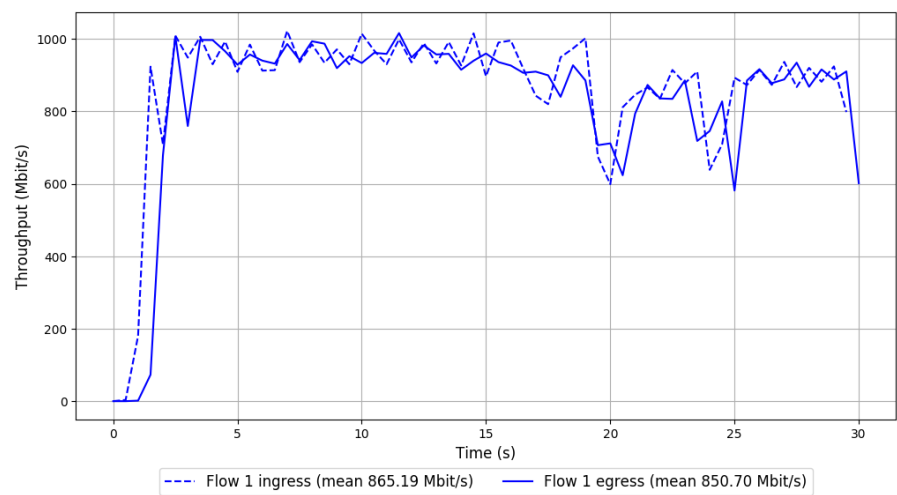


Run 6: Statistics of FillP

Start at: 2018-06-18 20:29:08
End at: 2018-06-18 20:29:38
Local clock offset: 0.145 ms
Remote clock offset: -0.324 ms

Below is generated by plot.py at 2018-06-18 22:46:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 850.70 Mbit/s
95th percentile per-packet one-way delay: 188.885 ms
Loss rate: 2.41%
-- Flow 1:
Average throughput: 850.70 Mbit/s
95th percentile per-packet one-way delay: 188.885 ms
Loss rate: 2.41%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-06-18 20:49:52

End at: 2018-06-18 20:50:22

Local clock offset: -0.164 ms

Remote clock offset: 0.071 ms

Below is generated by plot.py at 2018-06-18 22:46:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 529.54 Mbit/s

95th percentile per-packet one-way delay: 302.435 ms

Loss rate: 3.91%

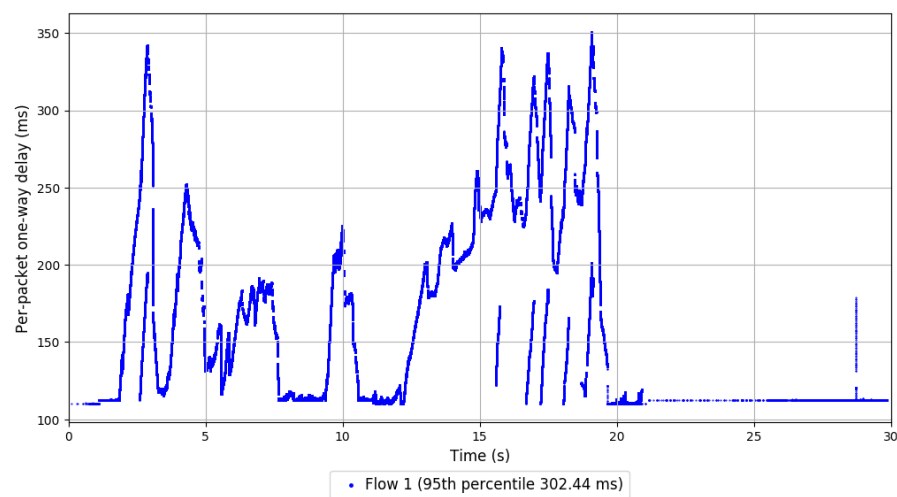
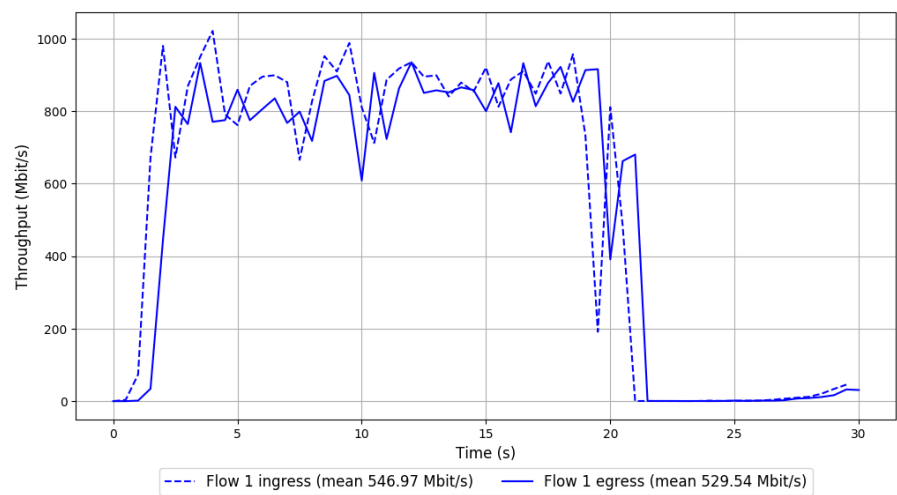
-- Flow 1:

Average throughput: 529.54 Mbit/s

95th percentile per-packet one-way delay: 302.435 ms

Loss rate: 3.91%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-06-18 21:10:35

End at: 2018-06-18 21:11:05

Local clock offset: -0.163 ms

Remote clock offset: 0.007 ms

Below is generated by plot.py at 2018-06-18 22:46:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 847.61 Mbit/s

95th percentile per-packet one-way delay: 182.298 ms

Loss rate: 3.13%

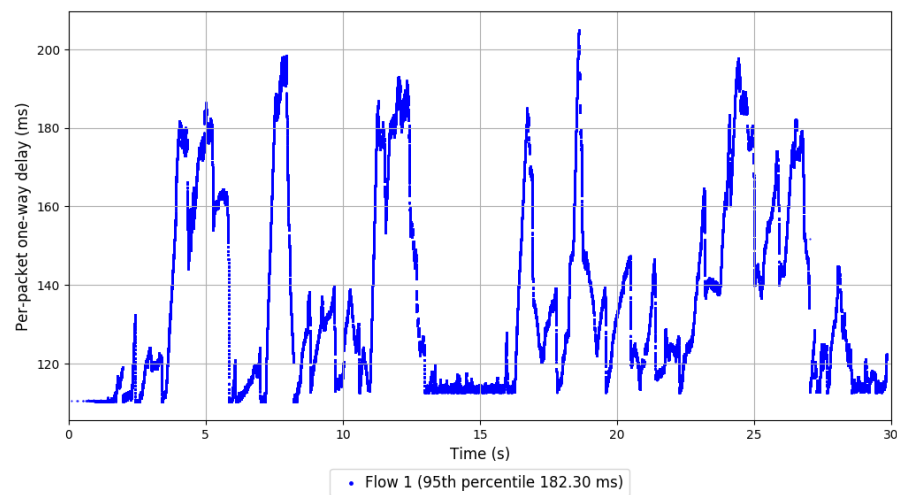
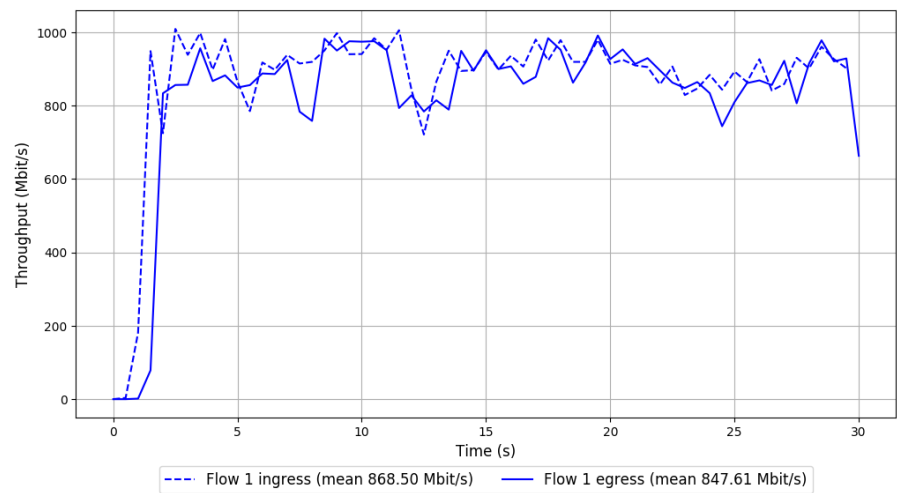
-- Flow 1:

Average throughput: 847.61 Mbit/s

95th percentile per-packet one-way delay: 182.298 ms

Loss rate: 3.13%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-06-18 21:31:19

End at: 2018-06-18 21:31:49

Local clock offset: 0.128 ms

Remote clock offset: 0.078 ms

Below is generated by plot.py at 2018-06-18 22:59:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 839.01 Mbit/s

95th percentile per-packet one-way delay: 260.965 ms

Loss rate: 2.90%

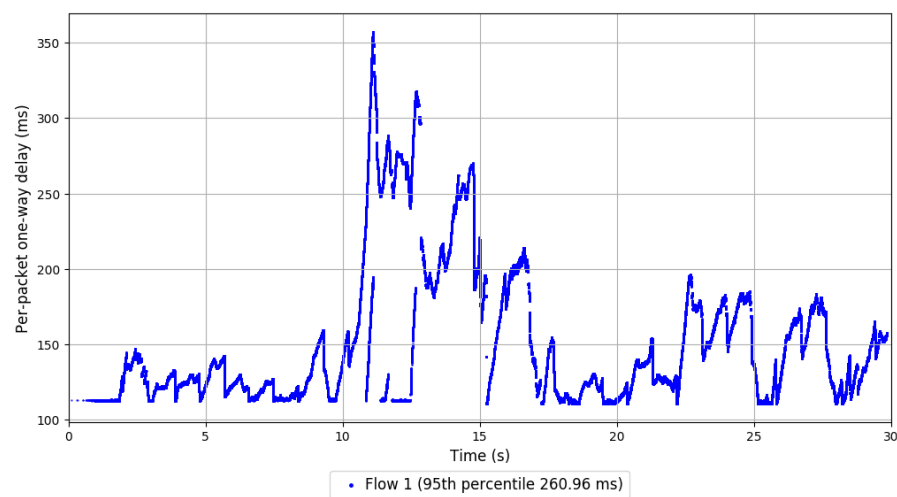
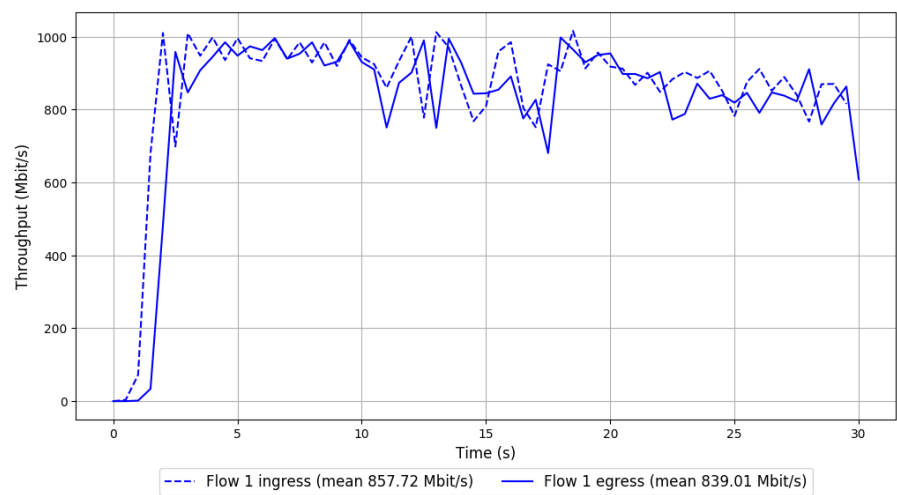
-- Flow 1:

Average throughput: 839.01 Mbit/s

95th percentile per-packet one-way delay: 260.965 ms

Loss rate: 2.90%

Run 9: Report of FillP — Data Link

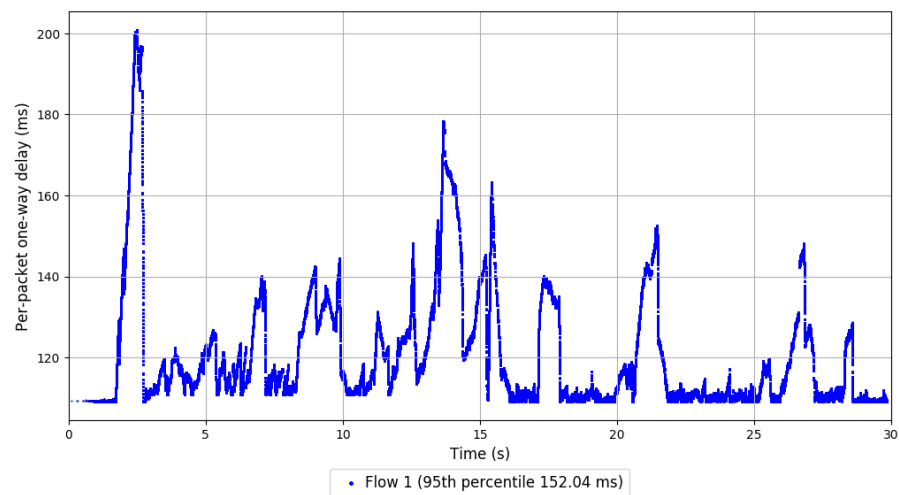
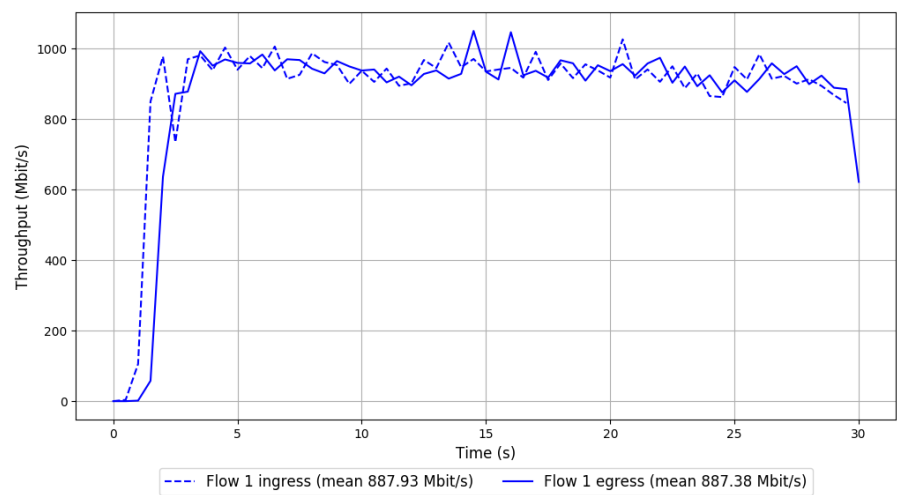


Run 10: Statistics of FillP

Start at: 2018-06-18 21:52:40
End at: 2018-06-18 21:53:10
Local clock offset: -0.178 ms
Remote clock offset: -0.313 ms

Below is generated by plot.py at 2018-06-18 23:02:38
Datalink statistics
-- Total of 1 flow:
Average throughput: 887.38 Mbit/s
95th percentile per-packet one-way delay: 152.044 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 887.38 Mbit/s
95th percentile per-packet one-way delay: 152.044 ms
Loss rate: 0.80%

Run 10: Report of FillP — Data Link

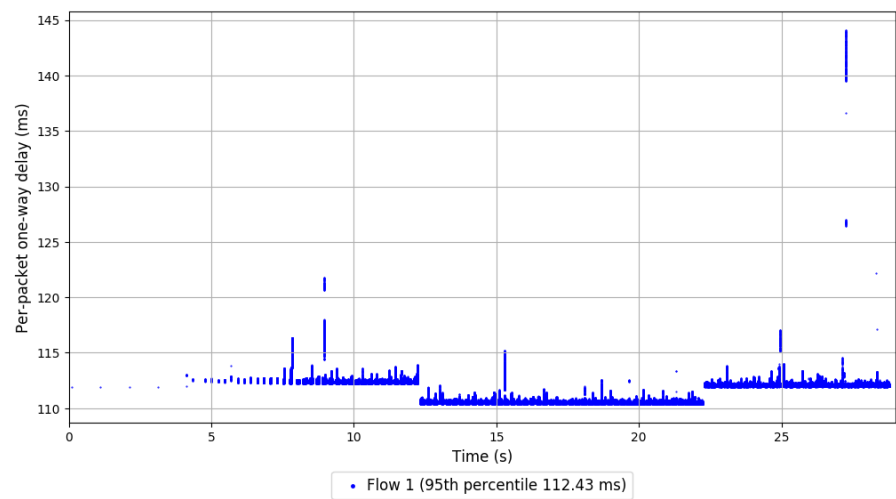
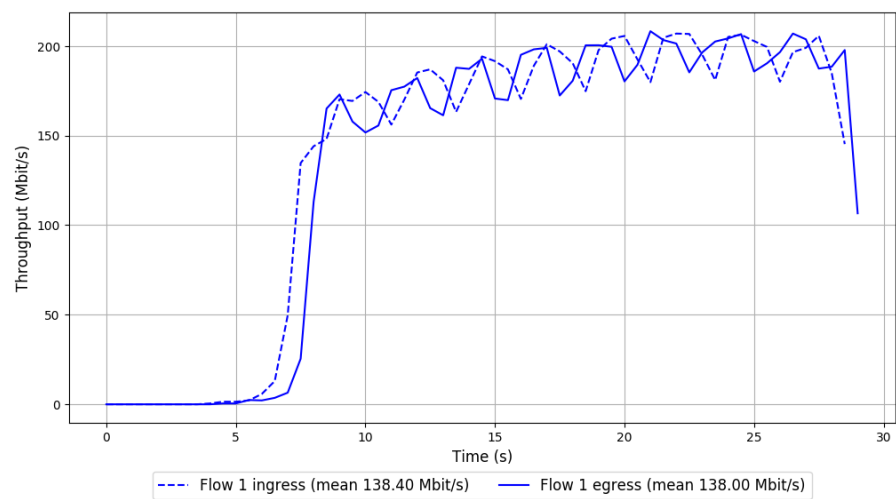


```
Run 1: Statistics of Indigo

Start at: 2018-06-18 18:48:50
End at: 2018-06-18 18:49:20
Local clock offset: -0.257 ms
Remote clock offset: 0.021 ms

# Below is generated by plot.py at 2018-06-18 23:02:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 138.00 Mbit/s
95th percentile per-packet one-way delay: 112.434 ms
Loss rate: 1.06%
-- Flow 1:
Average throughput: 138.00 Mbit/s
95th percentile per-packet one-way delay: 112.434 ms
Loss rate: 1.06%
```


Run 1: Report of Indigo — Data Link

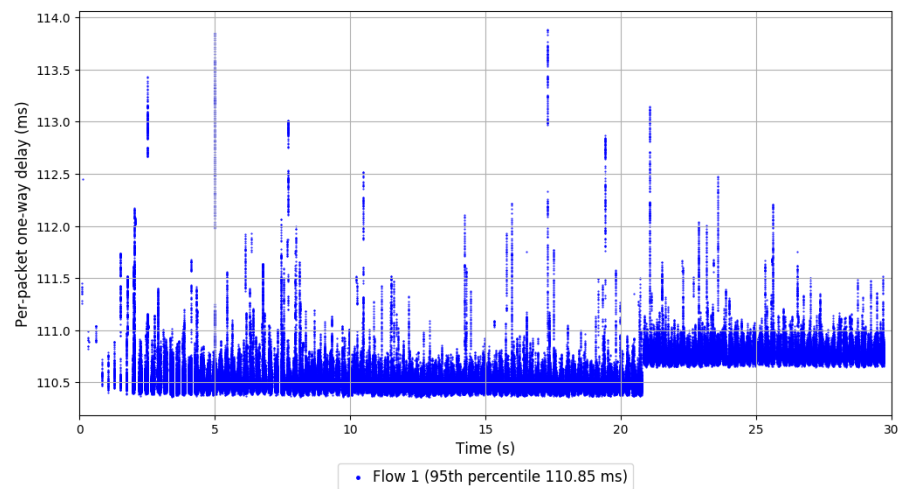
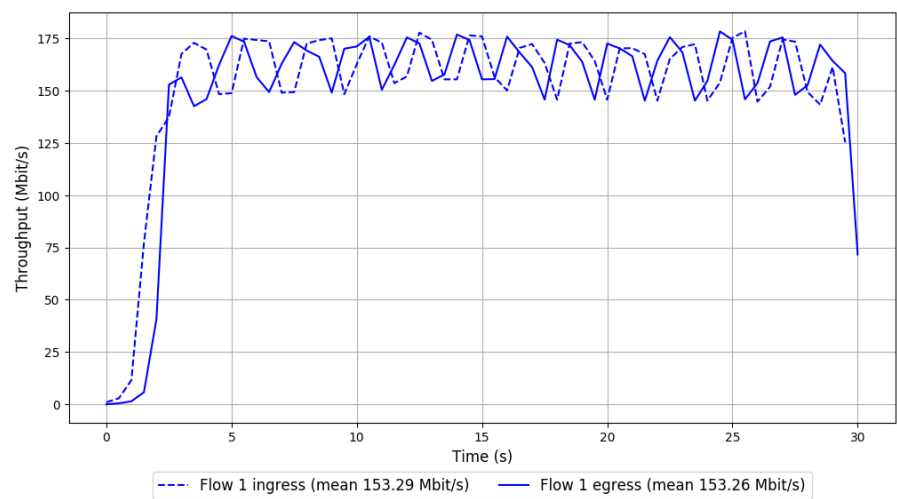


Run 2: Statistics of Indigo

Start at: 2018-06-18 19:09:52
End at: 2018-06-18 19:10:22
Local clock offset: 0.003 ms
Remote clock offset: -0.013 ms

Below is generated by plot.py at 2018-06-18 23:02:38
Datalink statistics
-- Total of 1 flow:
Average throughput: 153.26 Mbit/s
95th percentile per-packet one-way delay: 110.852 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 153.26 Mbit/s
95th percentile per-packet one-way delay: 110.852 ms
Loss rate: 0.78%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-06-18 19:30:31

End at: 2018-06-18 19:31:01

Local clock offset: 1.244 ms

Remote clock offset: 0.051 ms

Below is generated by plot.py at 2018-06-18 23:02:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 207.63 Mbit/s

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

Loss rate: 0.73%

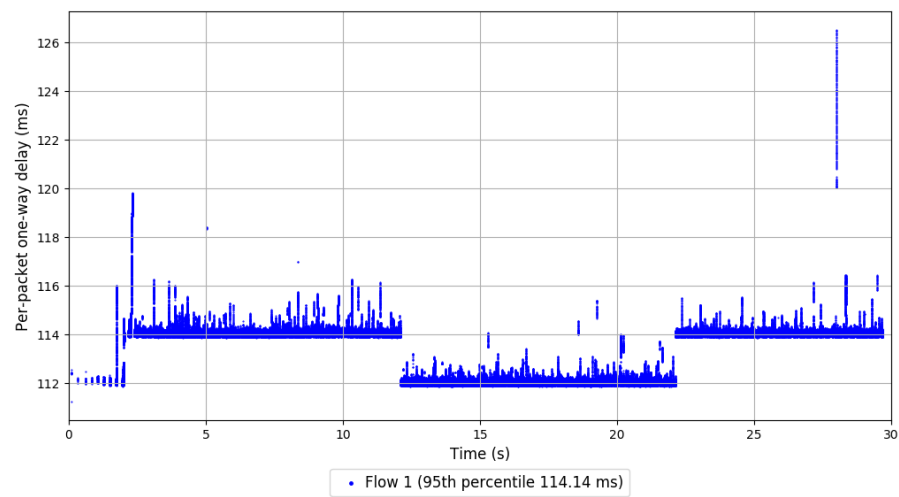
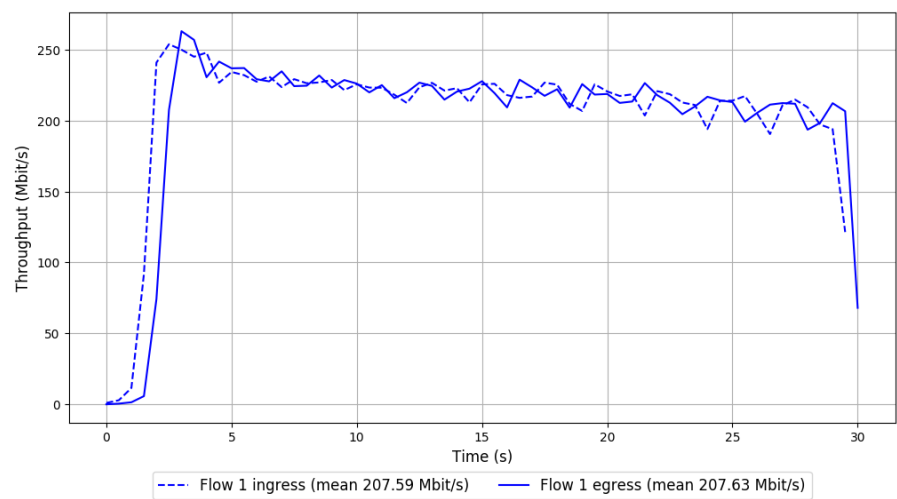
-- Flow 1:

Average throughput: 207.63 Mbit/s

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

Loss rate: 0.73%

Run 3: Report of Indigo — Data Link

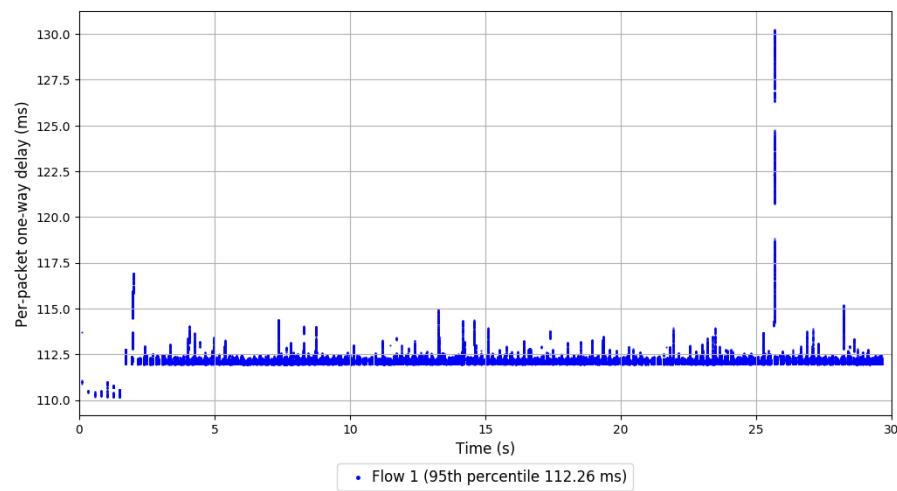
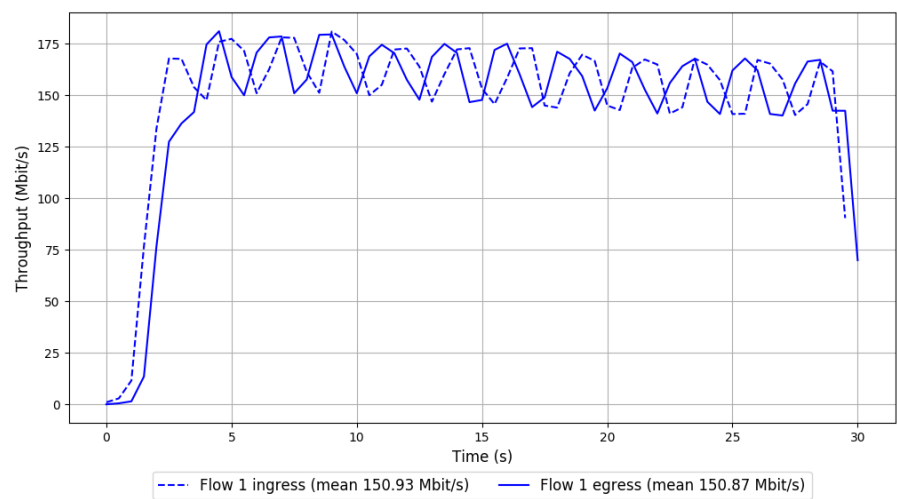


Run 4: Statistics of Indigo

Start at: 2018-06-18 19:51:22
End at: 2018-06-18 19:51:52
Local clock offset: 1.283 ms
Remote clock offset: -0.025 ms

Below is generated by plot.py at 2018-06-18 23:02:38
Datalink statistics
-- Total of 1 flow:
Average throughput: 150.87 Mbit/s
95th percentile per-packet one-way delay: 112.258 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 150.87 Mbit/s
95th percentile per-packet one-way delay: 112.258 ms
Loss rate: 0.79%

Run 4: Report of Indigo — Data Link

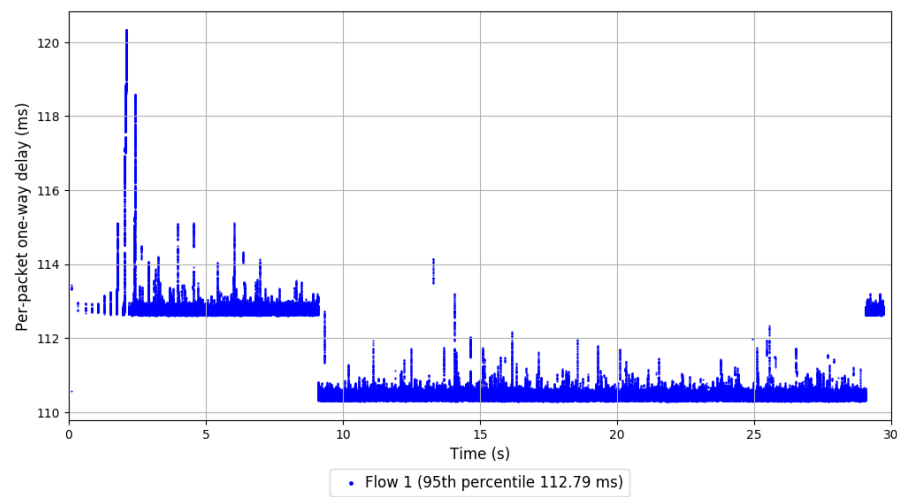
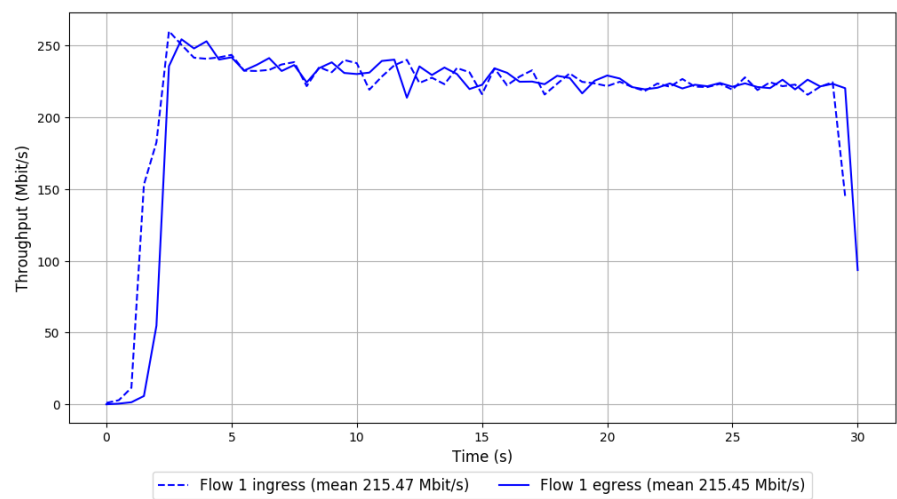


Run 5: Statistics of Indigo

Start at: 2018-06-18 20:12:24
End at: 2018-06-18 20:12:54
Local clock offset: -0.155 ms
Remote clock offset: -0.087 ms

Below is generated by plot.py at 2018-06-18 23:02:38
Datalink statistics
-- Total of 1 flow:
Average throughput: 215.45 Mbit/s
95th percentile per-packet one-way delay: 112.793 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 215.45 Mbit/s
95th percentile per-packet one-way delay: 112.793 ms
Loss rate: 0.76%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2018-06-18 20:33:10

End at: 2018-06-18 20:33:40

Local clock offset: 0.113 ms

Remote clock offset: 0.061 ms

Below is generated by plot.py at 2018-06-18 23:02:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 206.80 Mbit/s

95th percentile per-packet one-way delay: 115.032 ms

Loss rate: 0.75%

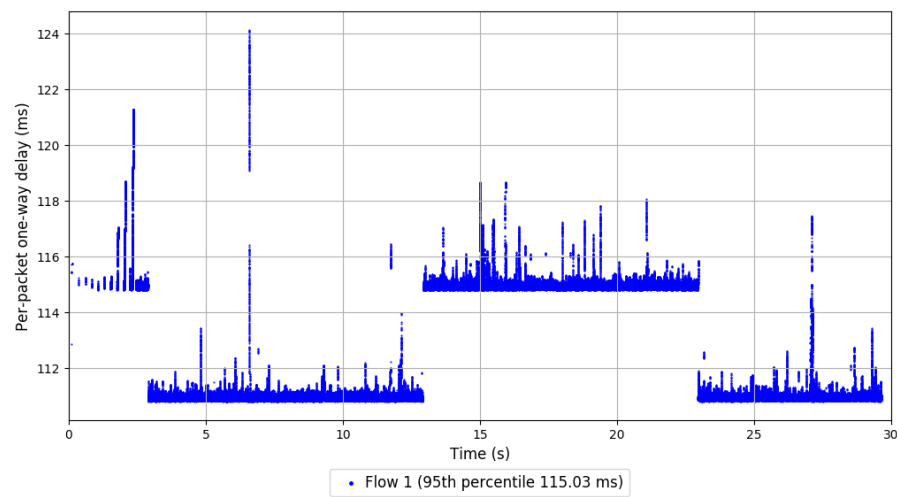
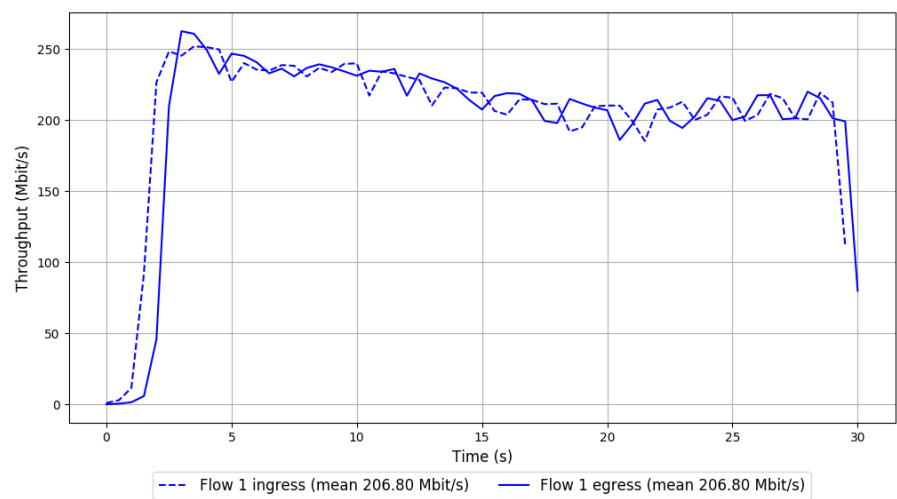
-- Flow 1:

Average throughput: 206.80 Mbit/s

95th percentile per-packet one-way delay: 115.032 ms

Loss rate: 0.75%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2018-06-18 20:53:39

End at: 2018-06-18 20:54:09

Local clock offset: -0.262 ms

Remote clock offset: -0.33 ms

Below is generated by plot.py at 2018-06-18 23:02:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 142.40 Mbit/s

95th percentile per-packet one-way delay: 113.013 ms

Loss rate: 0.82%

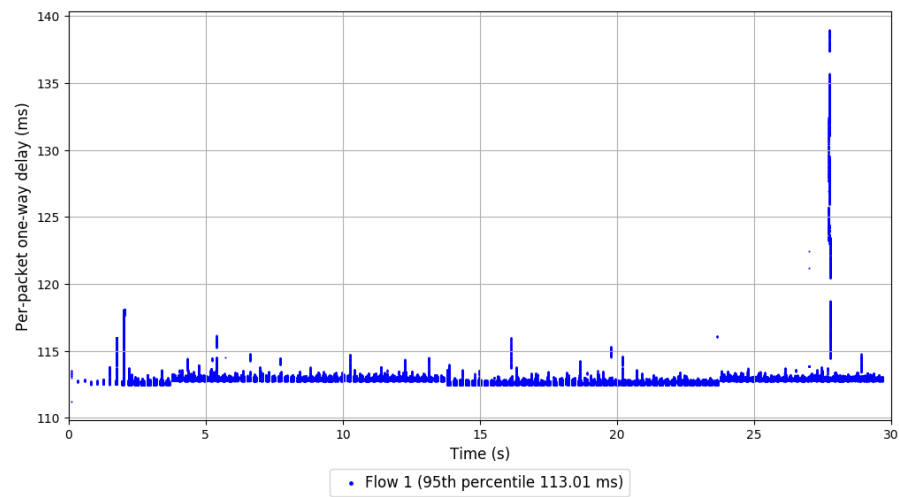
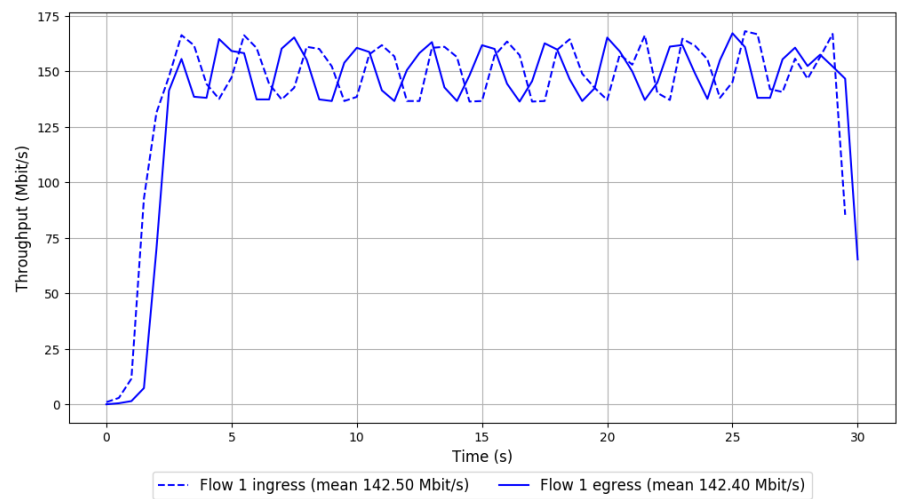
-- Flow 1:

Average throughput: 142.40 Mbit/s

95th percentile per-packet one-way delay: 113.013 ms

Loss rate: 0.82%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2018-06-18 21:14:36

End at: 2018-06-18 21:15:06

Local clock offset: -0.068 ms

Remote clock offset: 0.045 ms

Below is generated by plot.py at 2018-06-18 23:02:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 150.72 Mbit/s

95th percentile per-packet one-way delay: 112.737 ms

Loss rate: 0.79%

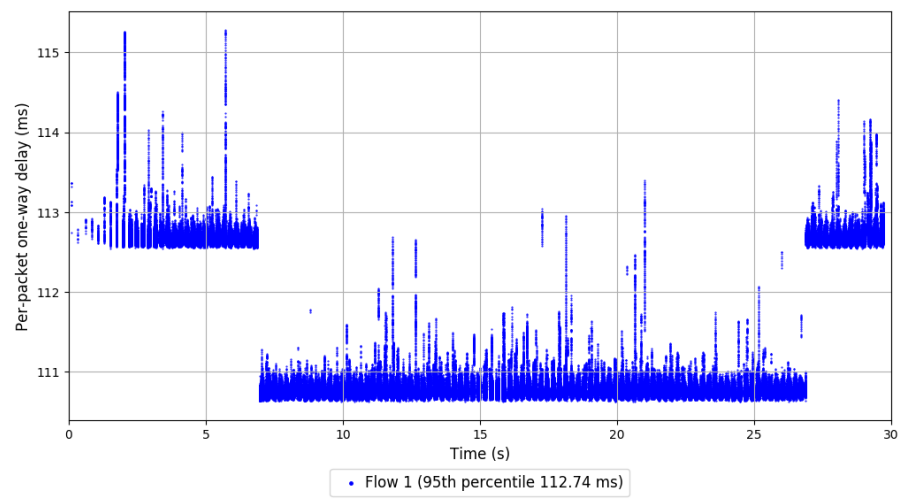
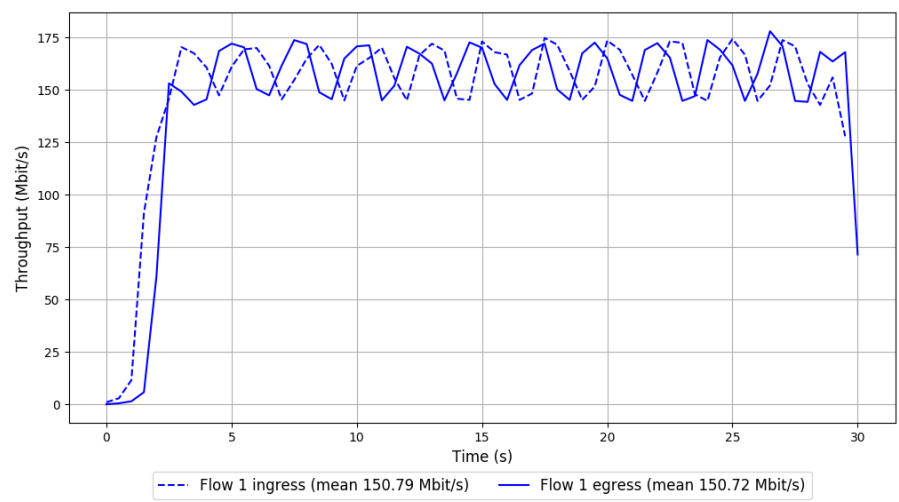
-- Flow 1:

Average throughput: 150.72 Mbit/s

95th percentile per-packet one-way delay: 112.737 ms

Loss rate: 0.79%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2018-06-18 21:35:20

End at: 2018-06-18 21:35:50

Local clock offset: -0.148 ms

Remote clock offset: 0.103 ms

Below is generated by plot.py at 2018-06-18 23:02:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 214.87 Mbit/s

95th percentile per-packet one-way delay: 110.823 ms

Loss rate: 0.76%

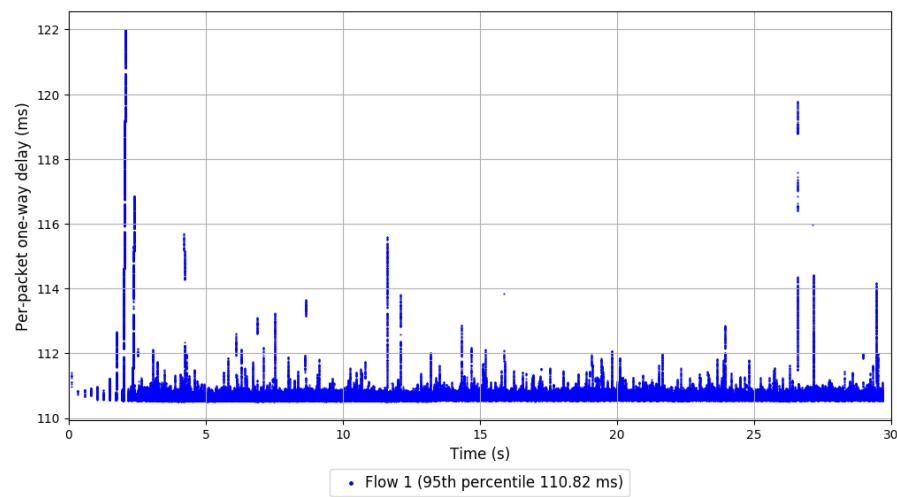
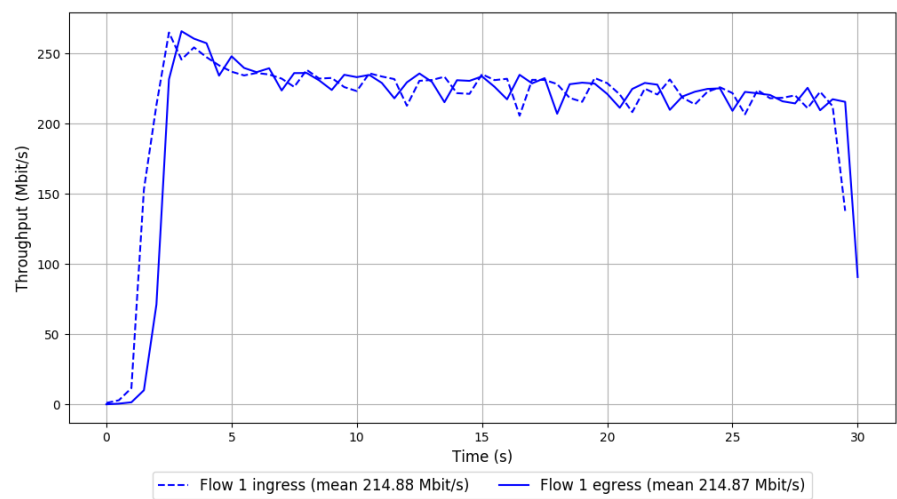
-- Flow 1:

Average throughput: 214.87 Mbit/s

95th percentile per-packet one-way delay: 110.823 ms

Loss rate: 0.76%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-06-18 21:56:43

End at: 2018-06-18 21:57:13

Local clock offset: 1.164 ms

Remote clock offset: 0.08 ms

Below is generated by plot.py at 2018-06-18 23:02:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 148.72 Mbit/s

95th percentile per-packet one-way delay: 112.209 ms

Loss rate: 0.78%

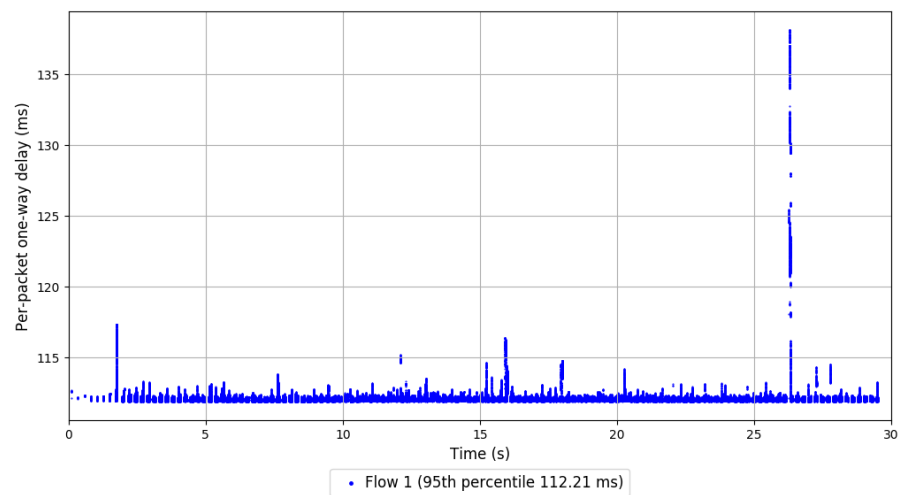
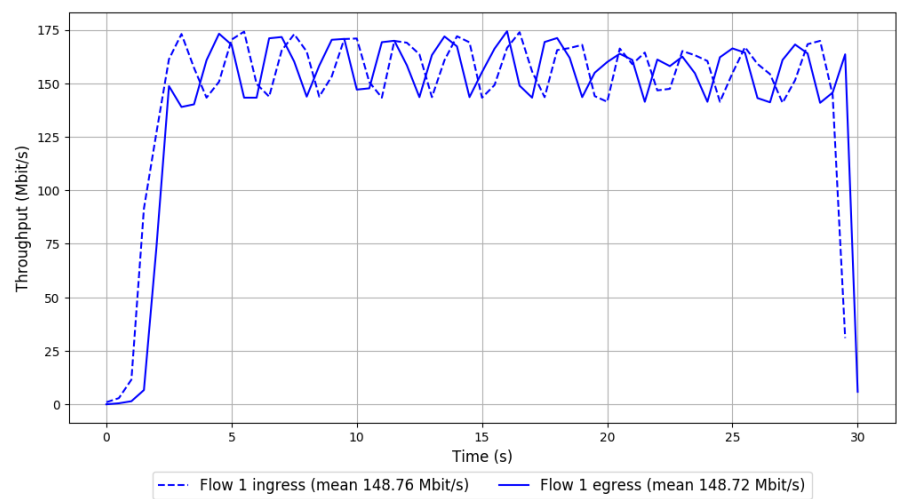
-- Flow 1:

Average throughput: 148.72 Mbit/s

95th percentile per-packet one-way delay: 112.209 ms

Loss rate: 0.78%

Run 10: Report of Indigo — Data Link

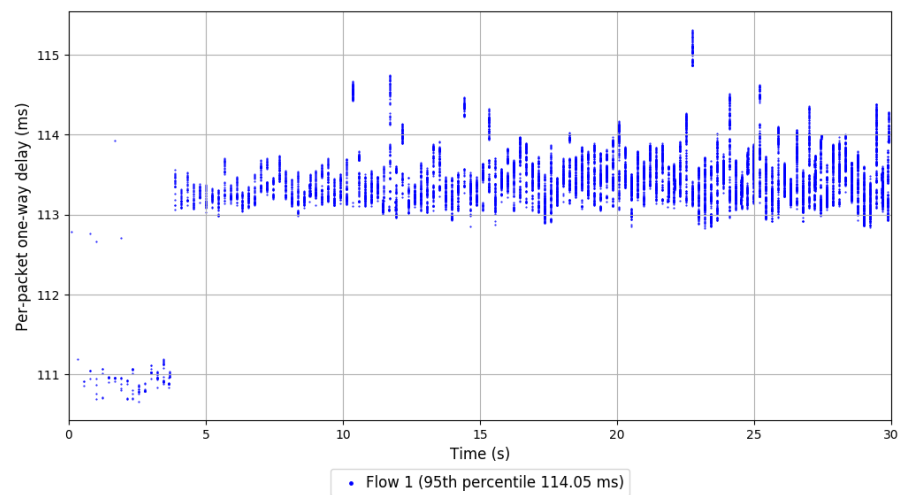
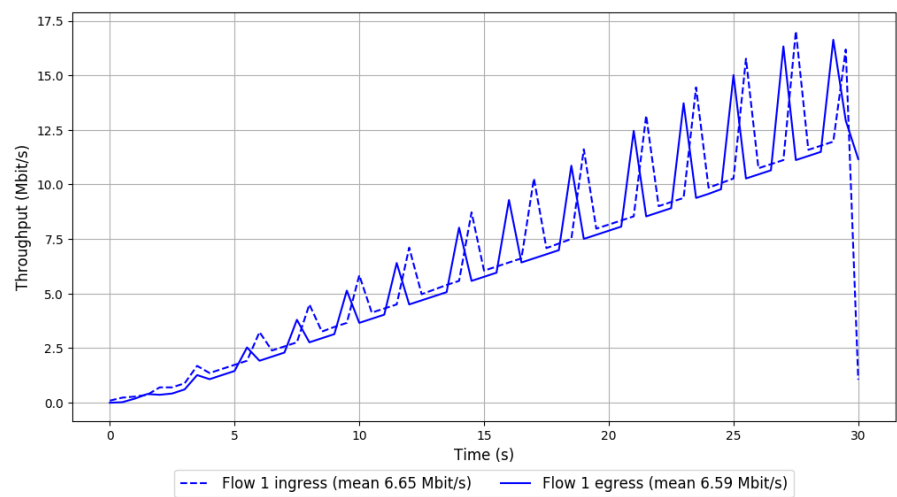


```
Run 1: Statistics of LEDBAT

Start at: 2018-06-18 18:52:39
End at: 2018-06-18 18:53:10
Local clock offset: 0.289 ms
Remote clock offset: 0.007 ms

# Below is generated by plot.py at 2018-06-18 23:02:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.59 Mbit/s
95th percentile per-packet one-way delay: 114.045 ms
Loss rate: 1.52%
-- Flow 1:
Average throughput: 6.59 Mbit/s
95th percentile per-packet one-way delay: 114.045 ms
Loss rate: 1.52%
```

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-06-18 19:13:39

End at: 2018-06-18 19:14:09

Local clock offset: -0.311 ms

Remote clock offset: 0.386 ms

Below is generated by plot.py at 2018-06-18 23:02:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.74 Mbit/s

95th percentile per-packet one-way delay: 110.967 ms

Loss rate: 1.54%

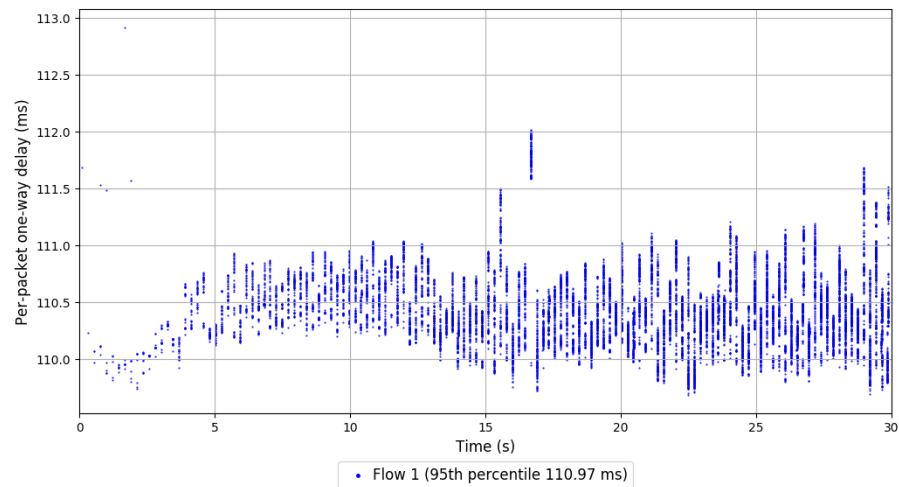
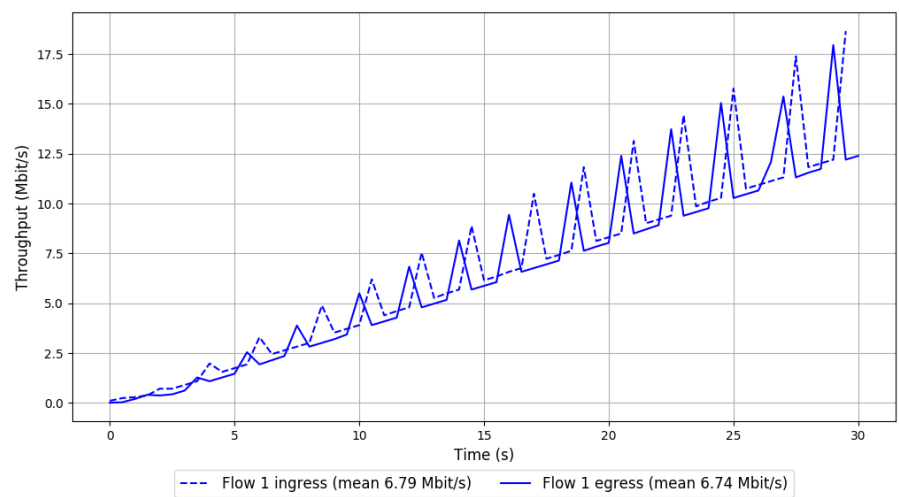
-- Flow 1:

Average throughput: 6.74 Mbit/s

95th percentile per-packet one-way delay: 110.967 ms

Loss rate: 1.54%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-06-18 19:34:26

End at: 2018-06-18 19:34:56

Local clock offset: -0.257 ms

Remote clock offset: 0.073 ms

Below is generated by plot.py at 2018-06-18 23:02:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.21 Mbit/s

95th percentile per-packet one-way delay: 112.666 ms

Loss rate: 1.49%

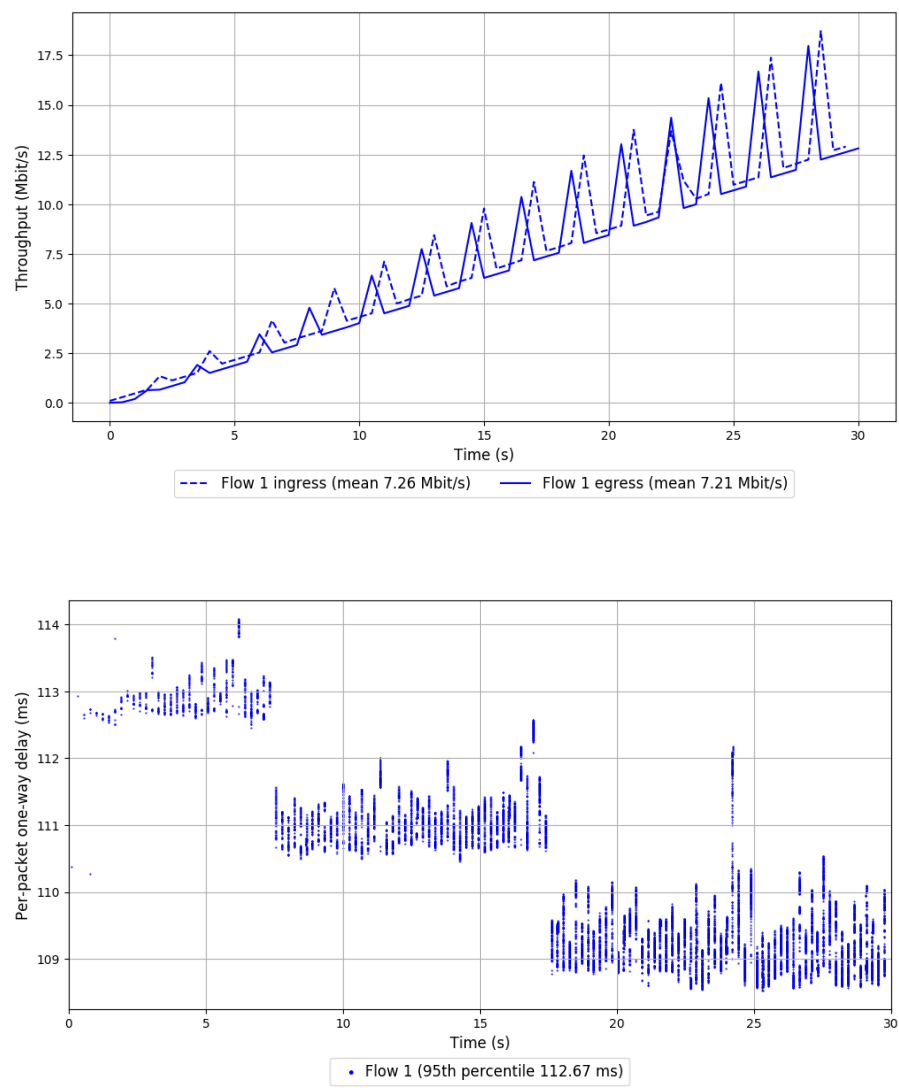
-- Flow 1:

Average throughput: 7.21 Mbit/s

95th percentile per-packet one-way delay: 112.666 ms

Loss rate: 1.49%

Run 3: Report of LEDBAT — Data Link

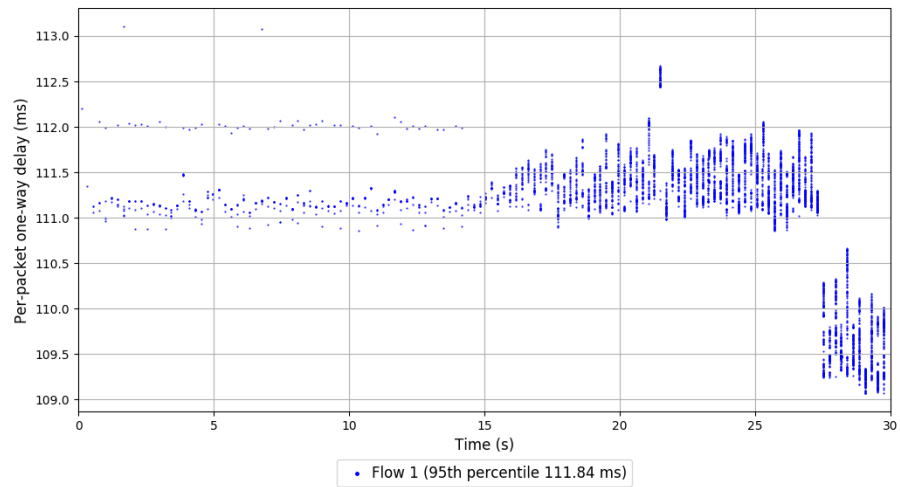
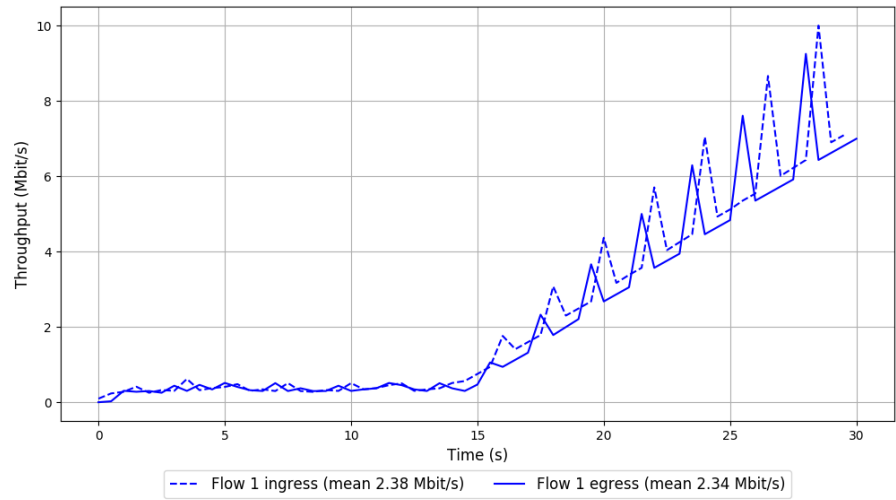


Run 4: Statistics of LEDBAT

Start at: 2018-06-18 19:55:16
End at: 2018-06-18 19:55:46
Local clock offset: -0.213 ms
Remote clock offset: -0.387 ms

Below is generated by plot.py at 2018-06-18 23:02:38
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.34 Mbit/s
95th percentile per-packet one-way delay: 111.839 ms
Loss rate: 2.51%
-- Flow 1:
Average throughput: 2.34 Mbit/s
95th percentile per-packet one-way delay: 111.839 ms
Loss rate: 2.51%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-06-18 20:16:19

End at: 2018-06-18 20:16:49

Local clock offset: -0.37 ms

Remote clock offset: 0.345 ms

Below is generated by plot.py at 2018-06-18 23:02:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.10 Mbit/s

95th percentile per-packet one-way delay: 113.114 ms

Loss rate: 1.49%

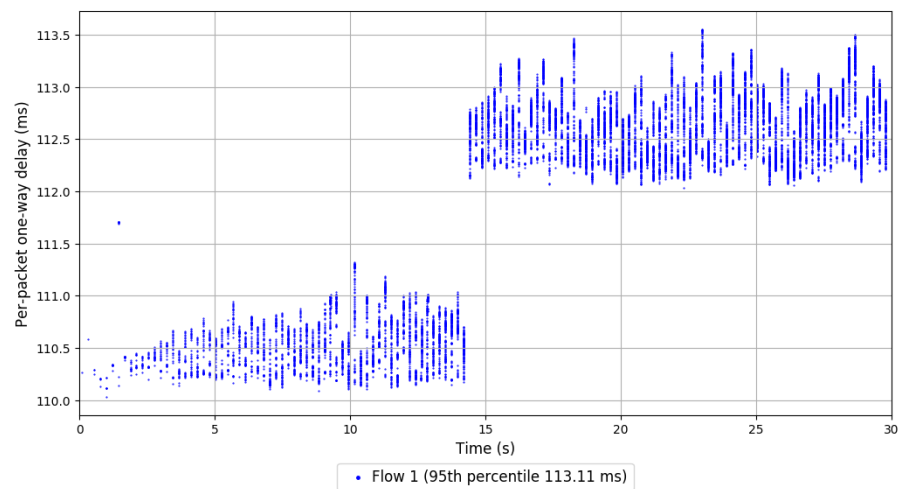
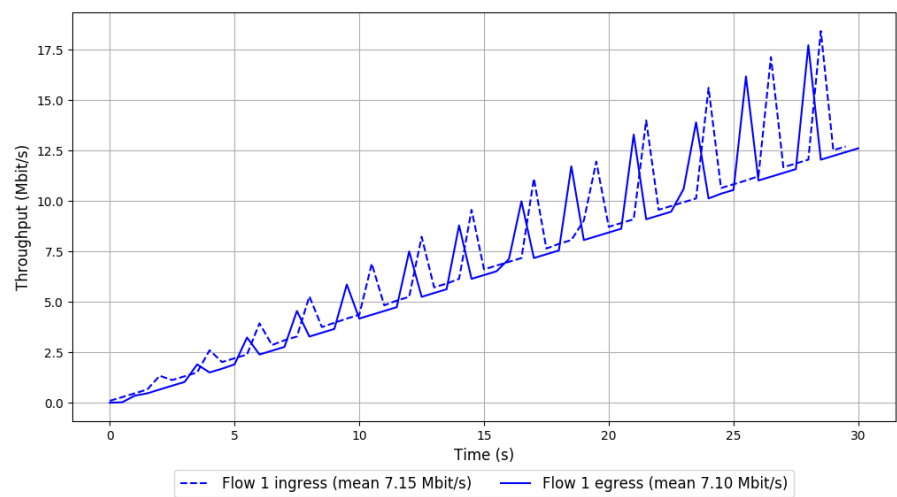
-- Flow 1:

Average throughput: 7.10 Mbit/s

95th percentile per-packet one-way delay: 113.114 ms

Loss rate: 1.49%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-06-18 20:36:58

End at: 2018-06-18 20:37:28

Local clock offset: -0.224 ms

Remote clock offset: 0.08 ms

Below is generated by plot.py at 2018-06-18 23:02:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.87 Mbit/s

95th percentile per-packet one-way delay: 115.095 ms

Loss rate: 1.49%

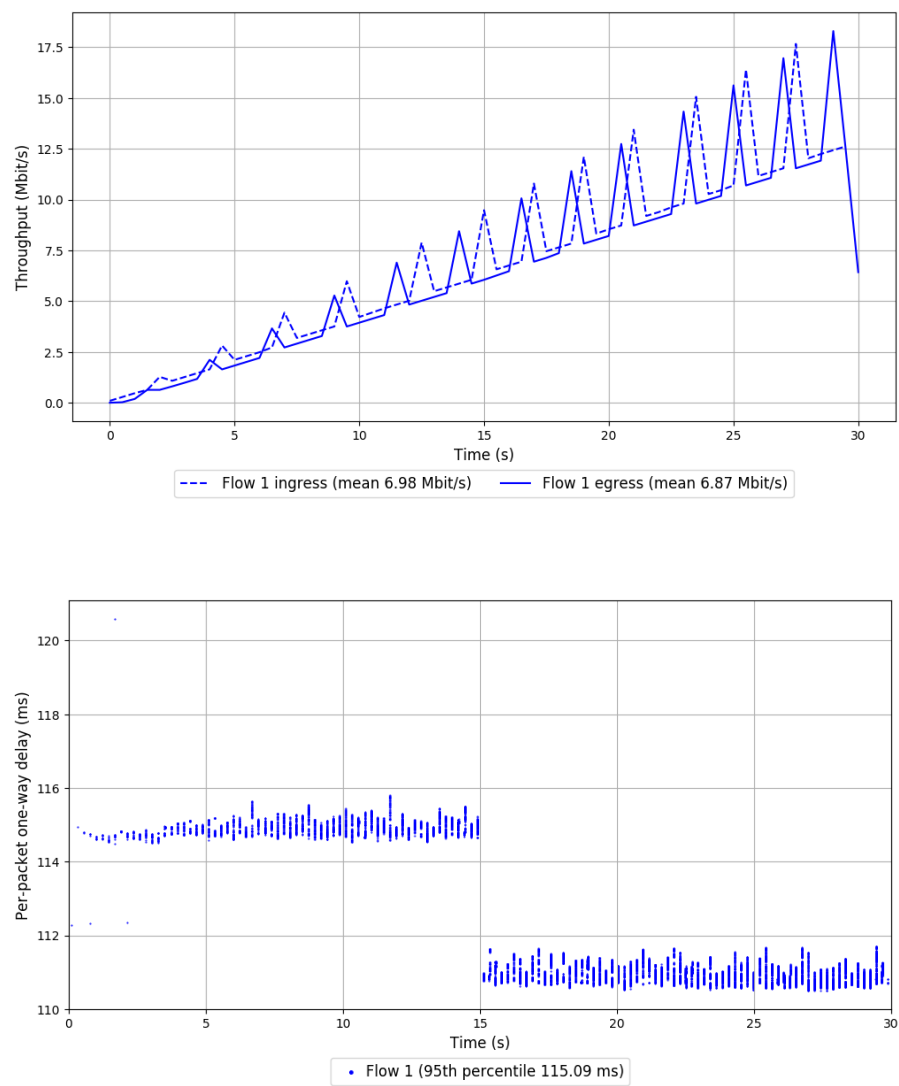
-- Flow 1:

Average throughput: 6.87 Mbit/s

95th percentile per-packet one-way delay: 115.095 ms

Loss rate: 1.49%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-06-18 20:57:30

End at: 2018-06-18 20:58:00

Local clock offset: -0.066 ms

Remote clock offset: 0.07 ms

Below is generated by plot.py at 2018-06-18 23:02:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.02 Mbit/s

95th percentile per-packet one-way delay: 115.705 ms

Loss rate: 1.50%

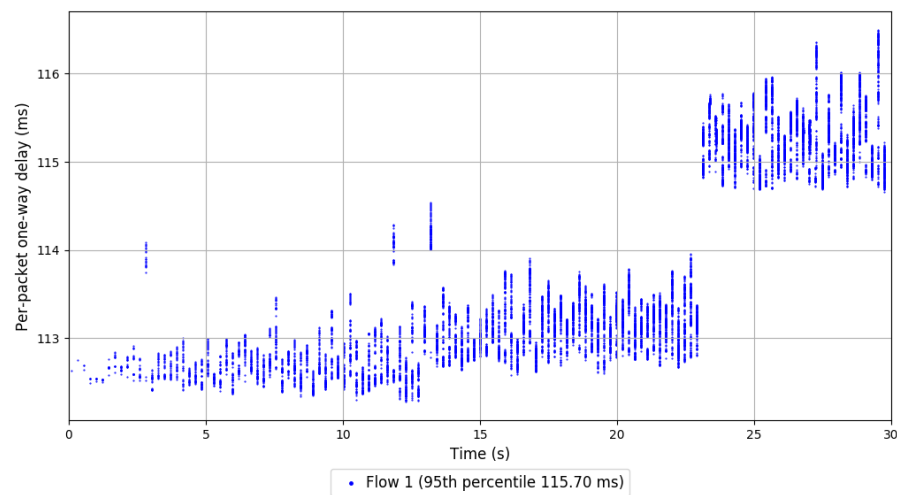
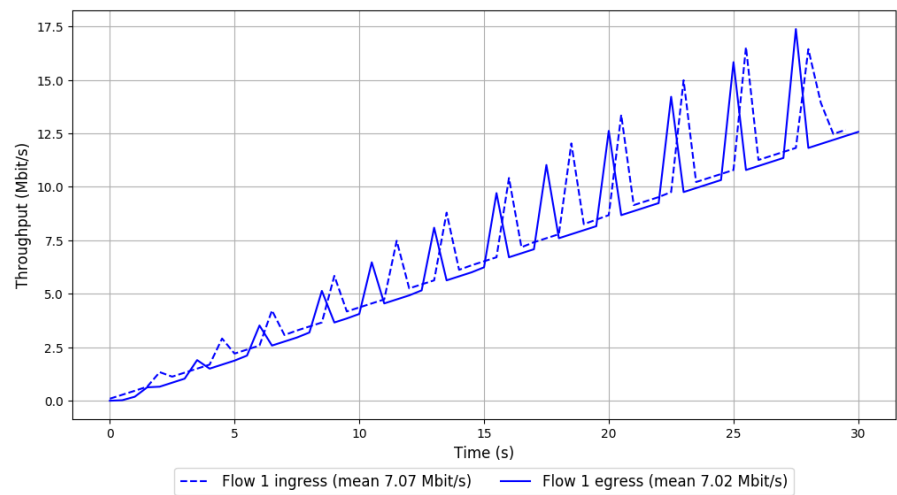
-- Flow 1:

Average throughput: 7.02 Mbit/s

95th percentile per-packet one-way delay: 115.705 ms

Loss rate: 1.50%

Run 7: Report of LEDBAT — Data Link

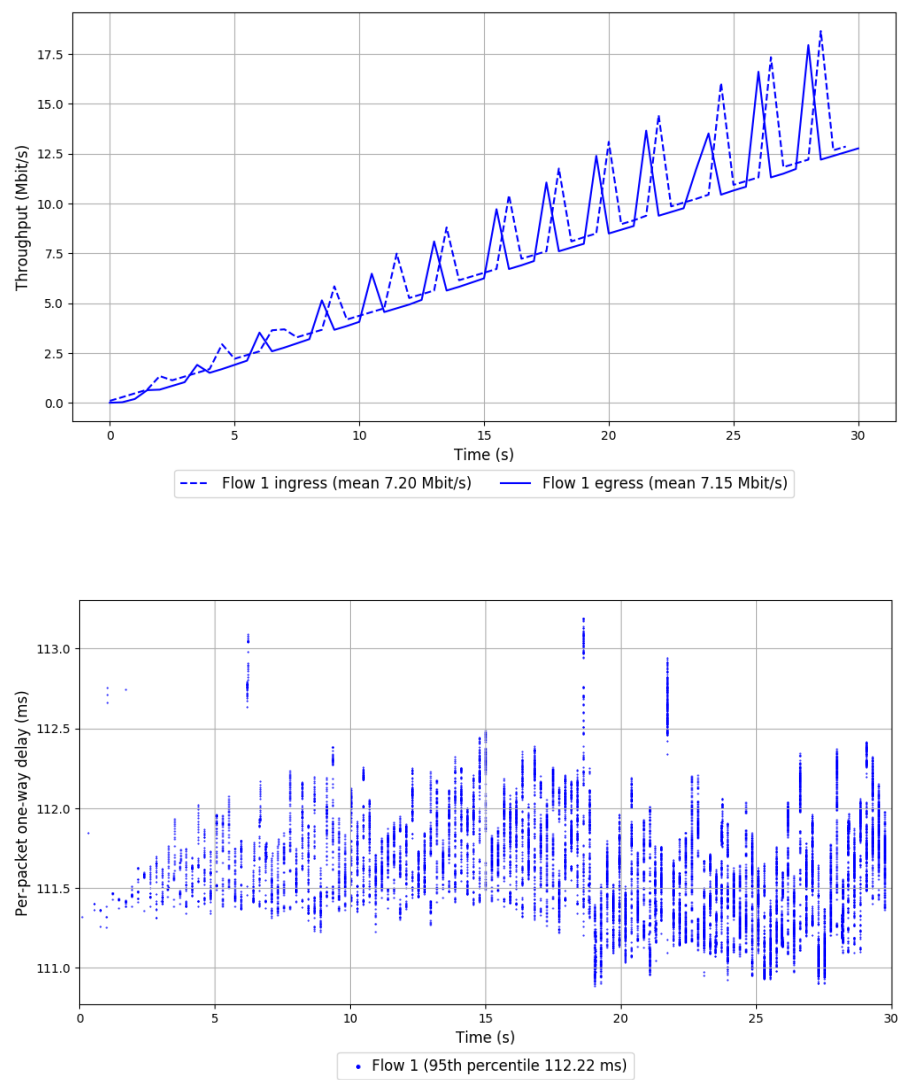


Run 8: Statistics of LEDBAT

Start at: 2018-06-18 21:18:24
End at: 2018-06-18 21:18:54
Local clock offset: -1.533 ms
Remote clock offset: -0.016 ms

Below is generated by plot.py at 2018-06-18 23:02:38
Datalink statistics
-- Total of 1 flow:
Average throughput: 7.15 Mbit/s
95th percentile per-packet one-way delay: 112.220 ms
Loss rate: 1.50%
-- Flow 1:
Average throughput: 7.15 Mbit/s
95th percentile per-packet one-way delay: 112.220 ms
Loss rate: 1.50%

Run 8: Report of LEDBAT — Data Link

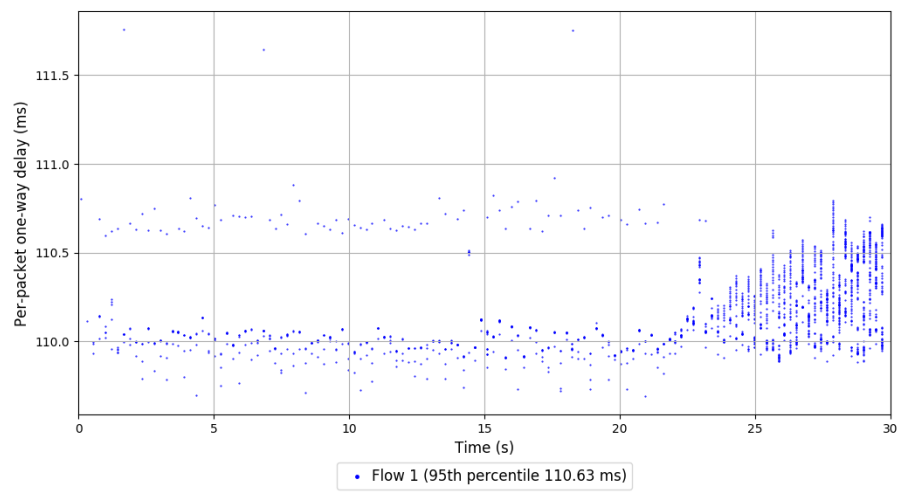
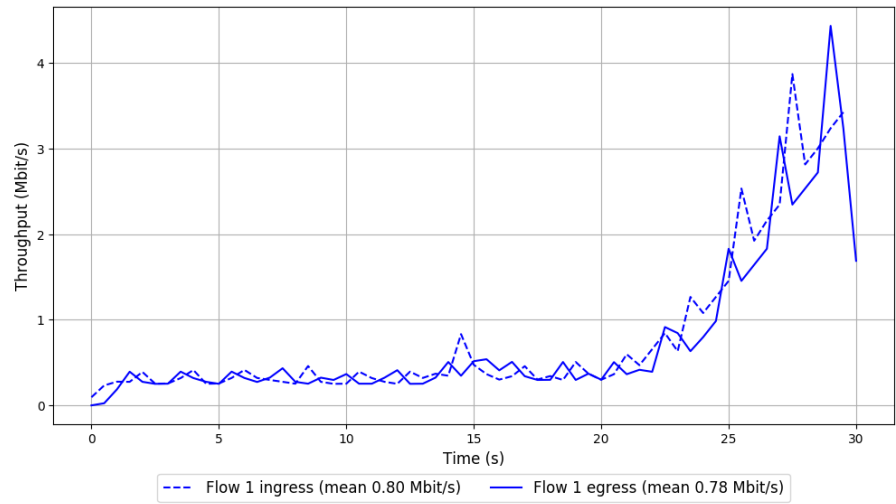


Run 9: Statistics of LEDBAT

Start at: 2018-06-18 21:39:17
End at: 2018-06-18 21:39:47
Local clock offset: -1.426 ms
Remote clock offset: -0.302 ms

Below is generated by plot.py at 2018-06-18 23:02:38
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.78 Mbit/s
95th percentile per-packet one-way delay: 110.632 ms
Loss rate: 3.64%
-- Flow 1:
Average throughput: 0.78 Mbit/s
95th percentile per-packet one-way delay: 110.632 ms
Loss rate: 3.64%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-06-18 22:00:29

End at: 2018-06-18 22:00:59

Local clock offset: -1.408 ms

Remote clock offset: 0.057 ms

Below is generated by plot.py at 2018-06-18 23:02:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.82 Mbit/s

95th percentile per-packet one-way delay: 112.575 ms

Loss rate: 2.32%

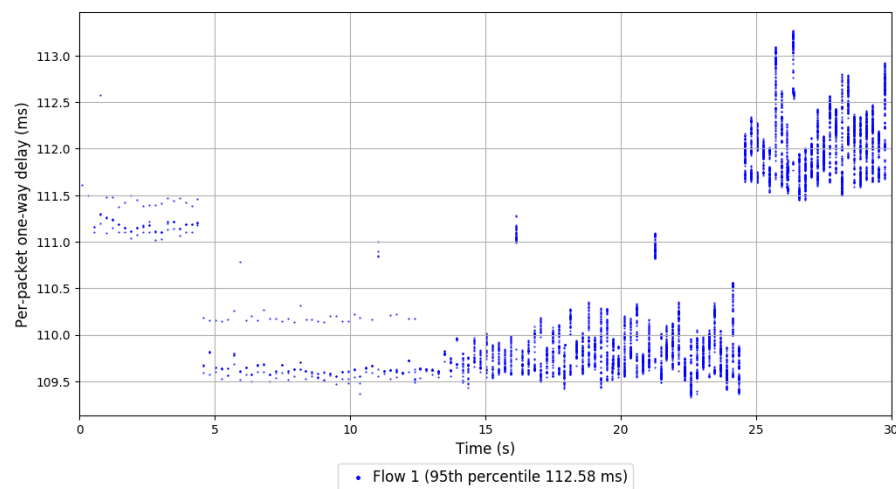
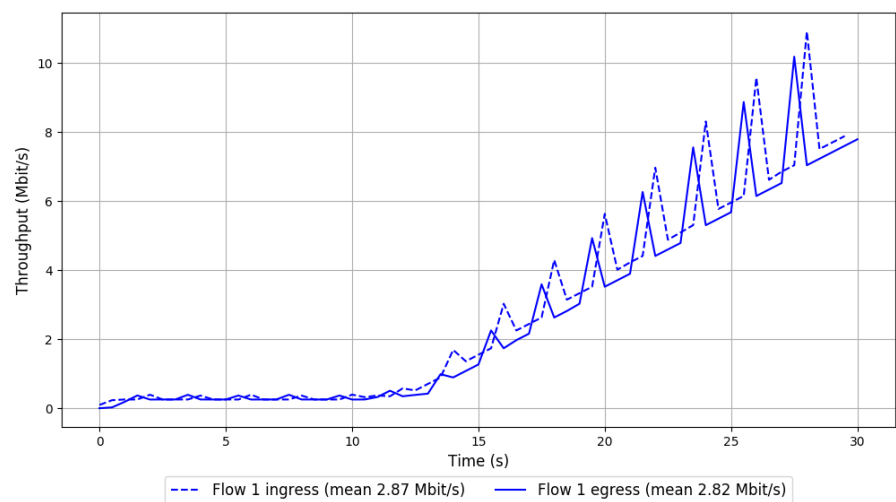
-- Flow 1:

Average throughput: 2.82 Mbit/s

95th percentile per-packet one-way delay: 112.575 ms

Loss rate: 2.32%

Run 10: Report of LEDBAT — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2018-06-18 19:01:29

End at: 2018-06-18 19:01:59

Local clock offset: 0.142 ms

Remote clock offset: 0.388 ms

Below is generated by plot.py at 2018-06-18 23:02:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 560.88 Mbit/s

95th percentile per-packet one-way delay: 168.626 ms

Loss rate: 1.59%

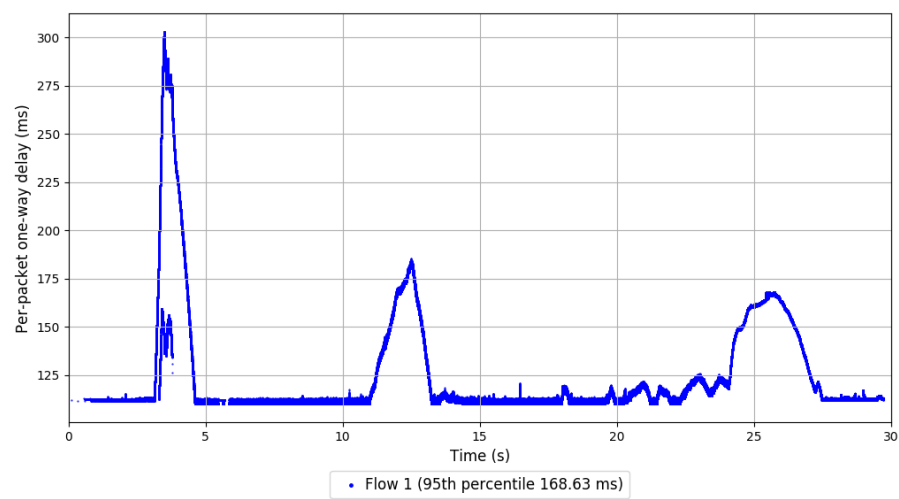
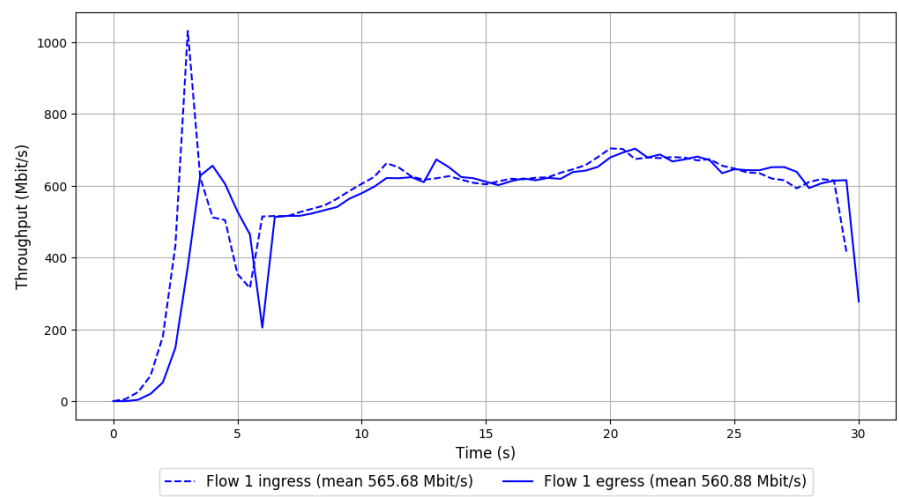
-- Flow 1:

Average throughput: 560.88 Mbit/s

95th percentile per-packet one-way delay: 168.626 ms

Loss rate: 1.59%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-06-18 19:22:30

End at: 2018-06-18 19:23:00

Local clock offset: -0.027 ms

Remote clock offset: 0.074 ms

Below is generated by plot.py at 2018-06-18 23:02:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 546.39 Mbit/s

95th percentile per-packet one-way delay: 222.084 ms

Loss rate: 2.05%

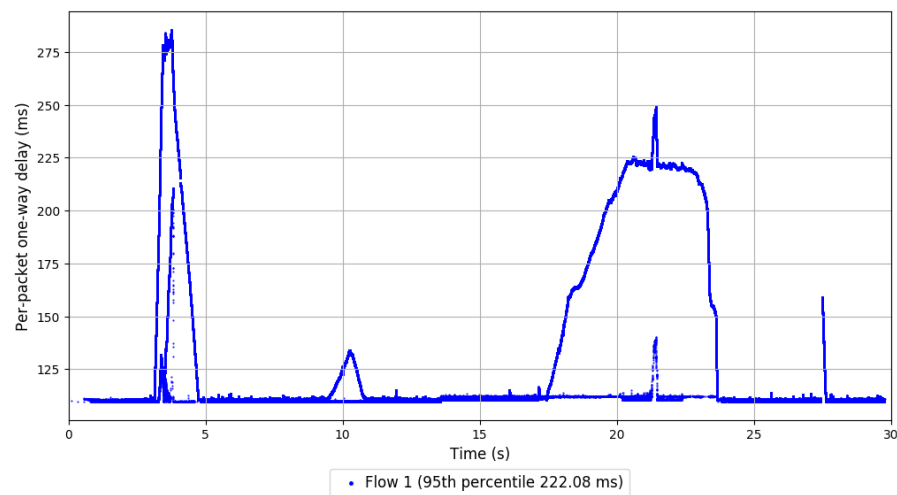
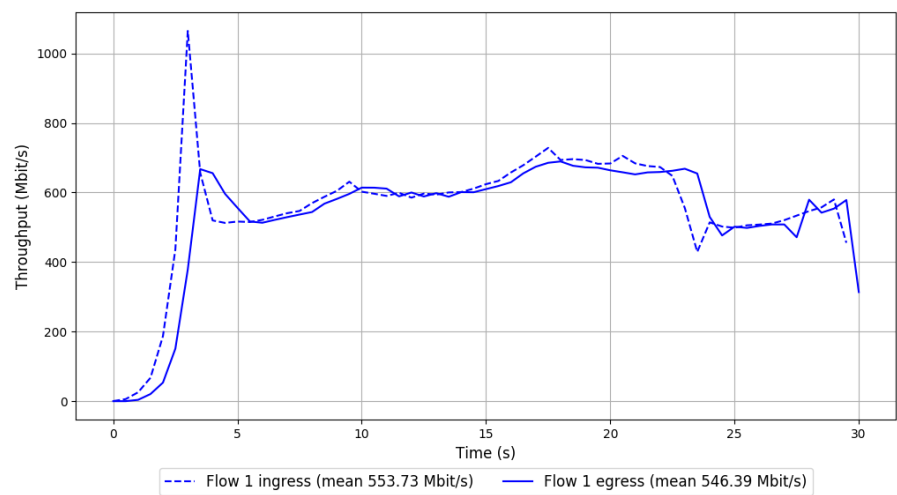
-- Flow 1:

Average throughput: 546.39 Mbit/s

95th percentile per-packet one-way delay: 222.084 ms

Loss rate: 2.05%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-06-18 19:43:14

End at: 2018-06-18 19:43:44

Local clock offset: -0.08 ms

Remote clock offset: -0.347 ms

Below is generated by plot.py at 2018-06-18 23:02:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 542.22 Mbit/s

95th percentile per-packet one-way delay: 141.087 ms

Loss rate: 1.72%

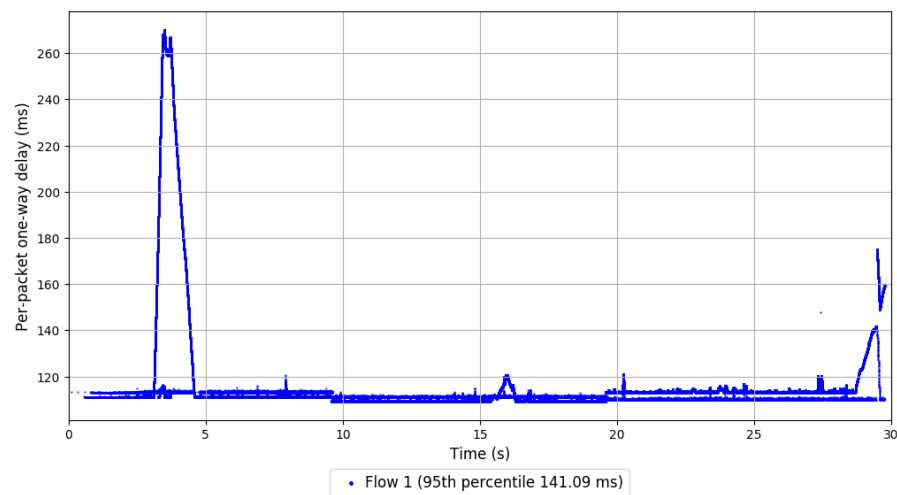
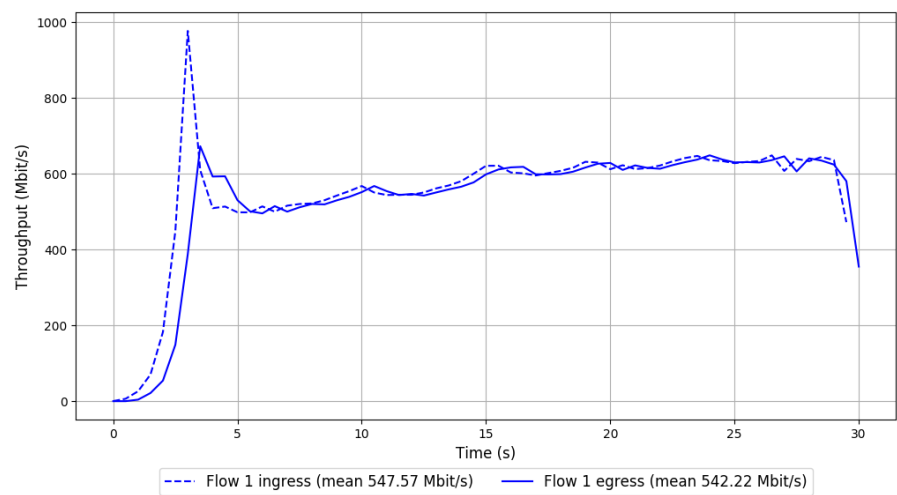
-- Flow 1:

Average throughput: 542.22 Mbit/s

95th percentile per-packet one-way delay: 141.087 ms

Loss rate: 1.72%

Run 3: Report of PCC-Allegro — Data Link

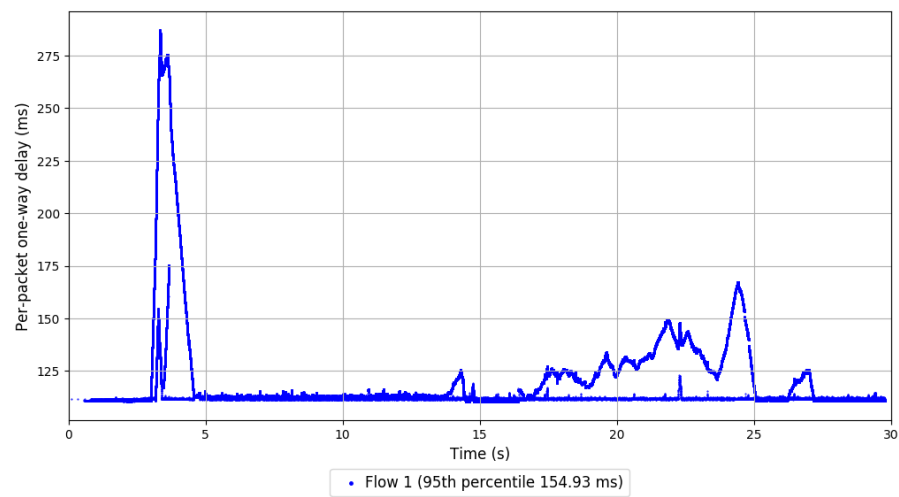
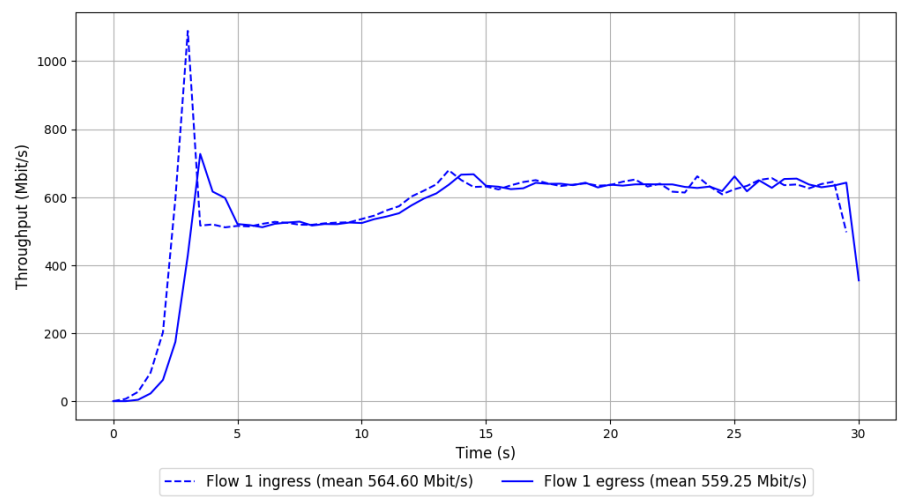


Run 4: Statistics of PCC-Allegro

Start at: 2018-06-18 20:04:19
End at: 2018-06-18 20:04:49
Local clock offset: -0.016 ms
Remote clock offset: -0.052 ms

Below is generated by plot.py at 2018-06-18 23:02:38
Datalink statistics
-- Total of 1 flow:
Average throughput: 559.25 Mbit/s
95th percentile per-packet one-way delay: 154.934 ms
Loss rate: 1.68%
-- Flow 1:
Average throughput: 559.25 Mbit/s
95th percentile per-packet one-way delay: 154.934 ms
Loss rate: 1.68%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-06-18 20:25:11

End at: 2018-06-18 20:25:41

Local clock offset: -0.536 ms

Remote clock offset: 0.04 ms

Below is generated by plot.py at 2018-06-18 23:02:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 565.29 Mbit/s

95th percentile per-packet one-way delay: 241.636 ms

Loss rate: 5.16%

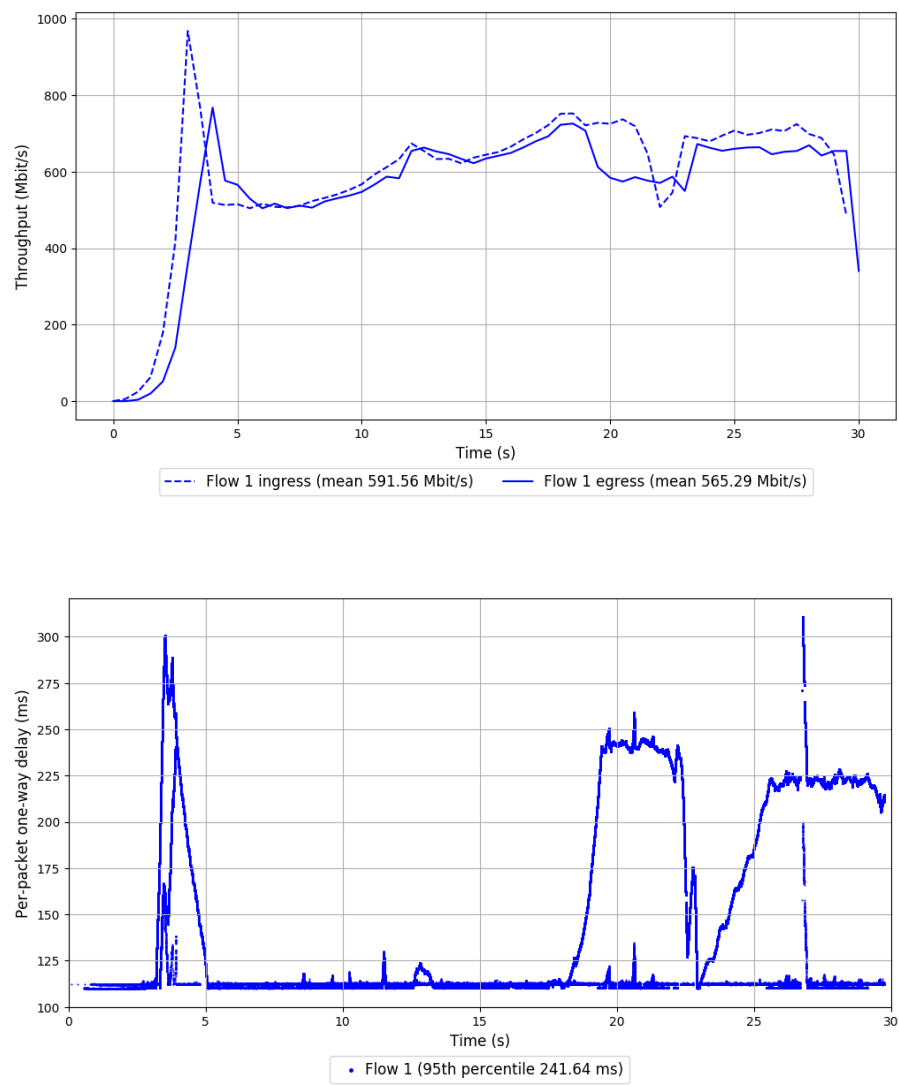
-- Flow 1:

Average throughput: 565.29 Mbit/s

95th percentile per-packet one-way delay: 241.636 ms

Loss rate: 5.16%

Run 5: Report of PCC-Allegro — Data Link



Run 6: Statistics of PCC-Allegro

Start at: 2018-06-18 20:45:48

End at: 2018-06-18 20:46:18

Local clock offset: -0.142 ms

Remote clock offset: 0.113 ms

Below is generated by plot.py at 2018-06-18 23:02:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 511.91 Mbit/s

95th percentile per-packet one-way delay: 222.707 ms

Loss rate: 1.78%

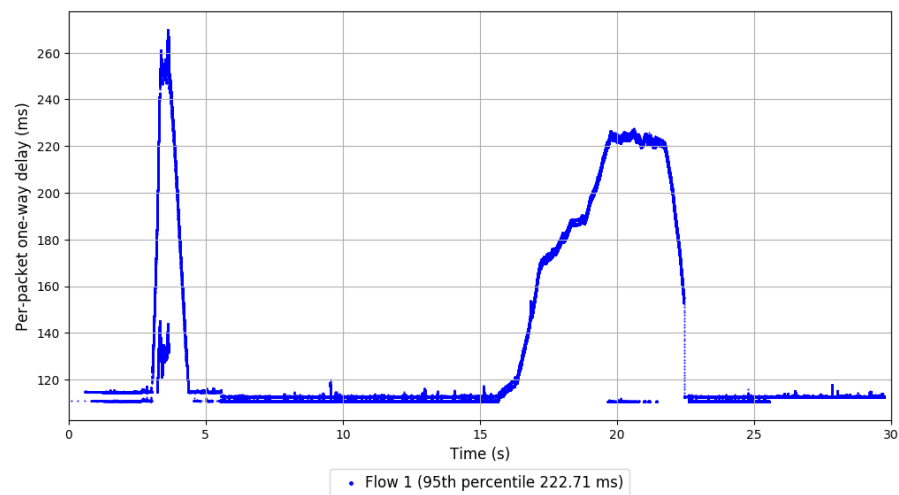
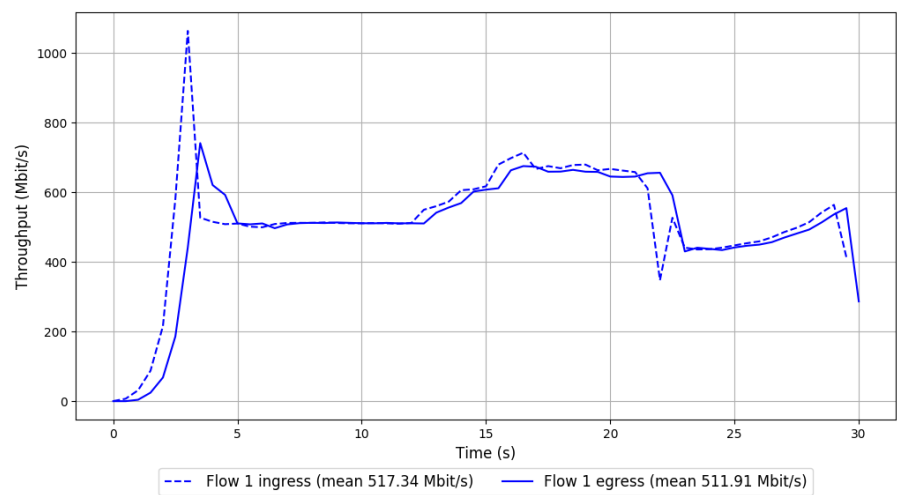
-- Flow 1:

Average throughput: 511.91 Mbit/s

95th percentile per-packet one-way delay: 222.707 ms

Loss rate: 1.78%

Run 6: Report of PCC-Allegro — Data Link



Run 7: Statistics of PCC-Allegro

Start at: 2018-06-18 21:06:24

End at: 2018-06-18 21:06:54

Local clock offset: -0.071 ms

Remote clock offset: 0.4 ms

Below is generated by plot.py at 2018-06-18 23:08:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 551.01 Mbit/s

95th percentile per-packet one-way delay: 234.249 ms

Loss rate: 3.18%

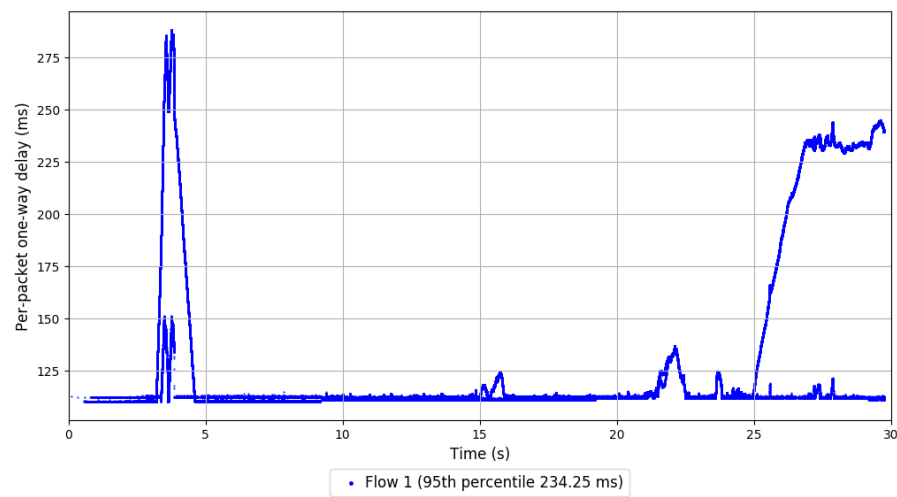
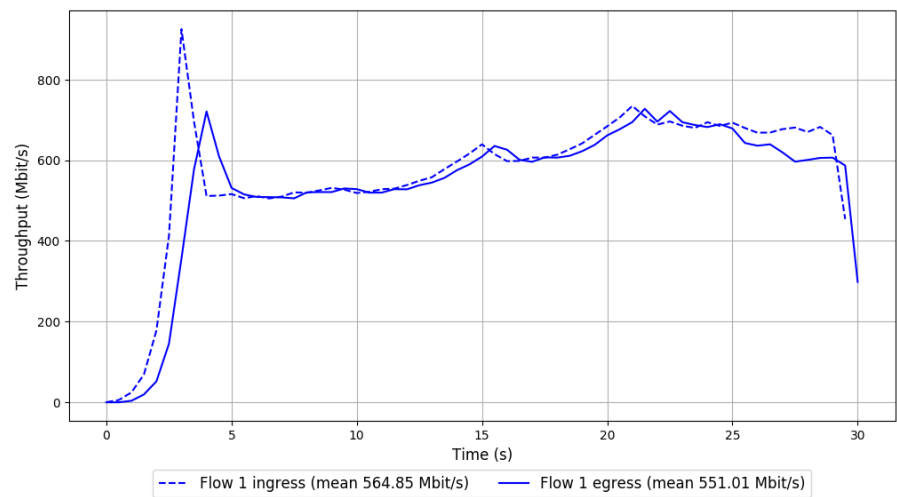
-- Flow 1:

Average throughput: 551.01 Mbit/s

95th percentile per-packet one-way delay: 234.249 ms

Loss rate: 3.18%

Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-06-18 21:27:20

End at: 2018-06-18 21:27:50

Local clock offset: 0.276 ms

Remote clock offset: 0.02 ms

Below is generated by plot.py at 2018-06-18 23:09:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 602.37 Mbit/s

95th percentile per-packet one-way delay: 222.125 ms

Loss rate: 2.33%

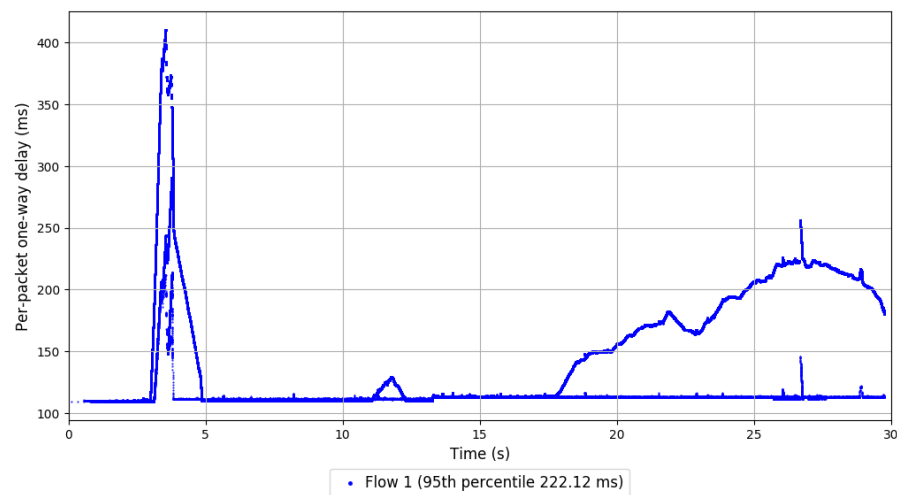
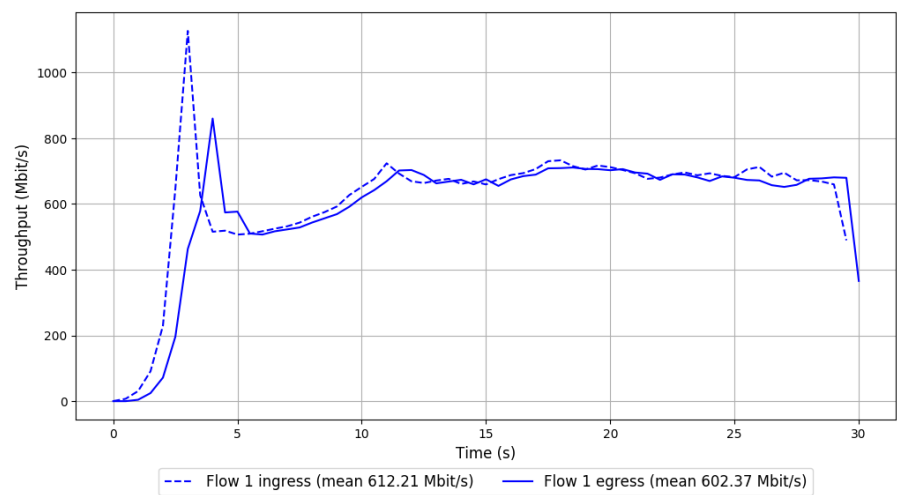
-- Flow 1:

Average throughput: 602.37 Mbit/s

95th percentile per-packet one-way delay: 222.125 ms

Loss rate: 2.33%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-06-18 21:48:21

End at: 2018-06-18 21:48:51

Local clock offset: -0.134 ms

Remote clock offset: 0.071 ms

Below is generated by plot.py at 2018-06-18 23:09:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 543.23 Mbit/s

95th percentile per-packet one-way delay: 142.298 ms

Loss rate: 1.64%

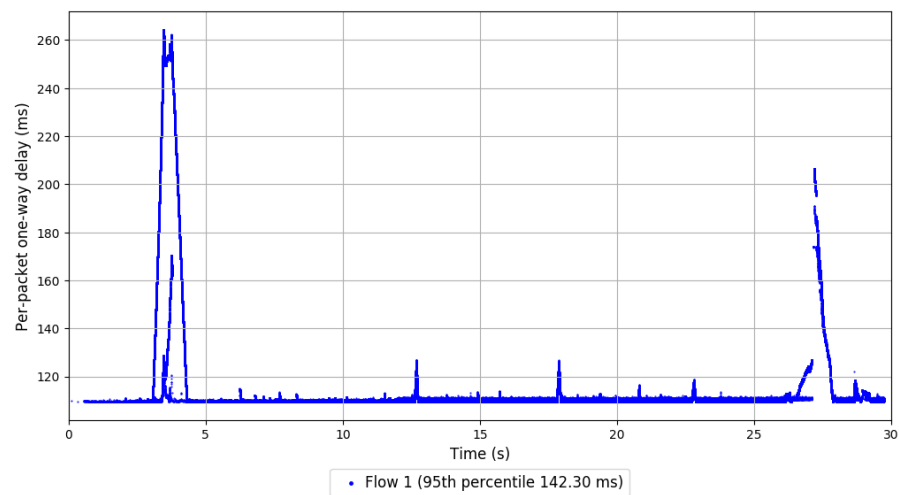
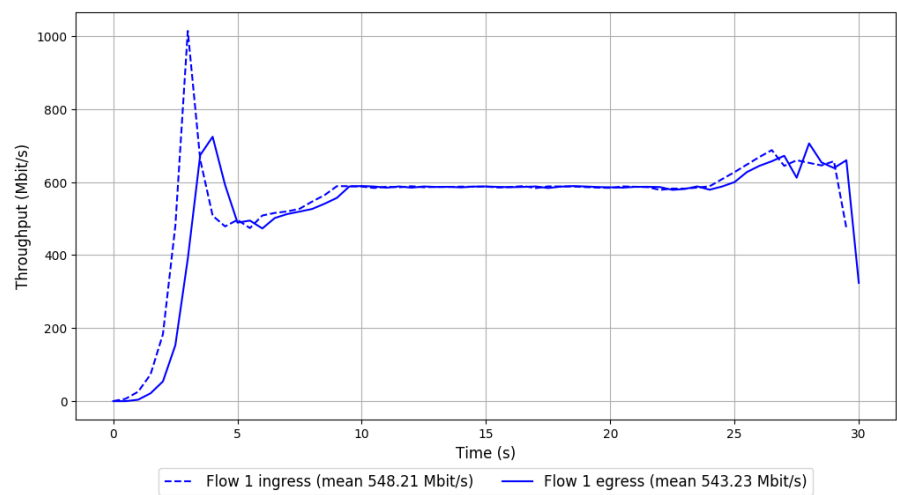
-- Flow 1:

Average throughput: 543.23 Mbit/s

95th percentile per-packet one-way delay: 142.298 ms

Loss rate: 1.64%

Run 9: Report of PCC-Allegro — Data Link

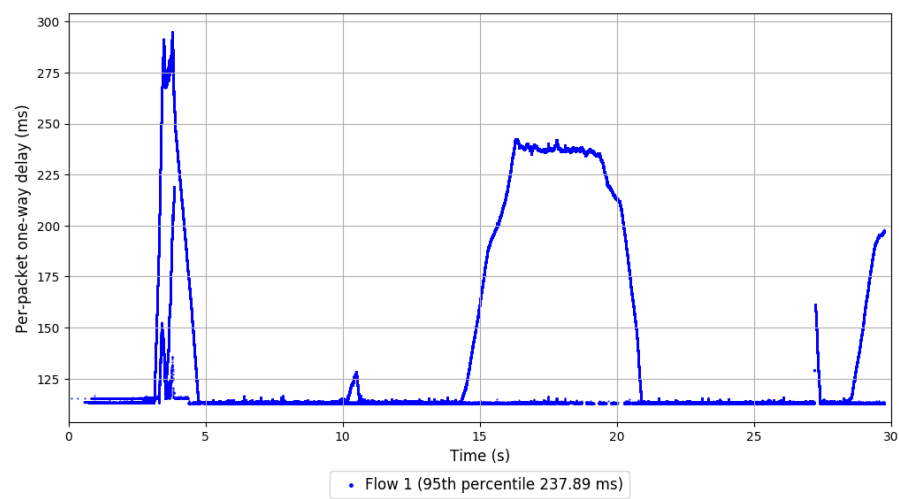
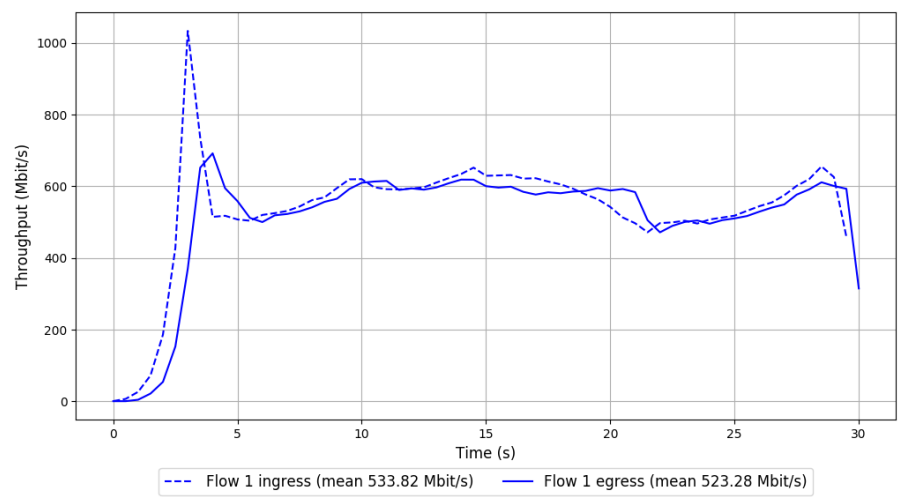


Run 10: Statistics of PCC-Allegro

Start at: 2018-06-18 22:09:29
End at: 2018-06-18 22:09:59
Local clock offset: 0.075 ms
Remote clock offset: -0.335 ms

Below is generated by plot.py at 2018-06-18 23:09:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 523.28 Mbit/s
95th percentile per-packet one-way delay: 237.887 ms
Loss rate: 2.72%
-- Flow 1:
Average throughput: 523.28 Mbit/s
95th percentile per-packet one-way delay: 237.887 ms
Loss rate: 2.72%

Run 10: Report of PCC-Allegro — Data Link

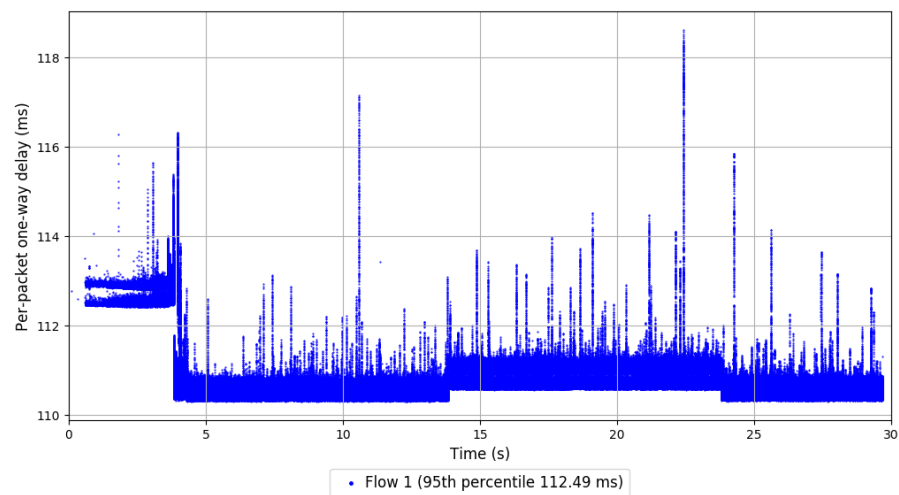
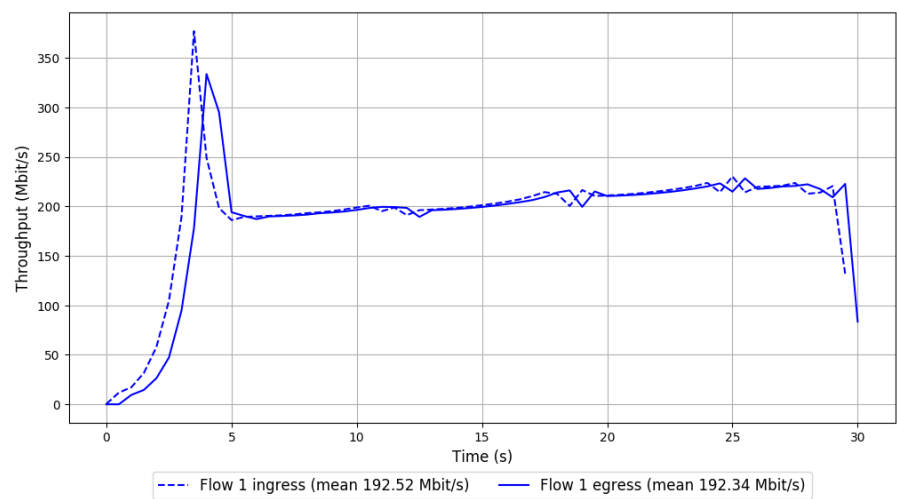


```
Run 1: Statistics of PCC-Expr

Start at: 2018-06-18 18:58:49
End at: 2018-06-18 18:59:19
Local clock offset: 0.275 ms
Remote clock offset: 0.018 ms

# Below is generated by plot.py at 2018-06-18 23:09:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 192.34 Mbit/s
95th percentile per-packet one-way delay: 112.494 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 192.34 Mbit/s
95th percentile per-packet one-way delay: 112.494 ms
Loss rate: 0.84%
```

Run 1: Report of PCC-Expr — Data Link



Run 2: Statistics of PCC-Expr

Start at: 2018-06-18 19:19:54

End at: 2018-06-18 19:20:24

Local clock offset: 0.11 ms

Remote clock offset: 0.059 ms

Below is generated by plot.py at 2018-06-18 23:09:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 184.03 Mbit/s

95th percentile per-packet one-way delay: 112.864 ms

Loss rate: 0.85%

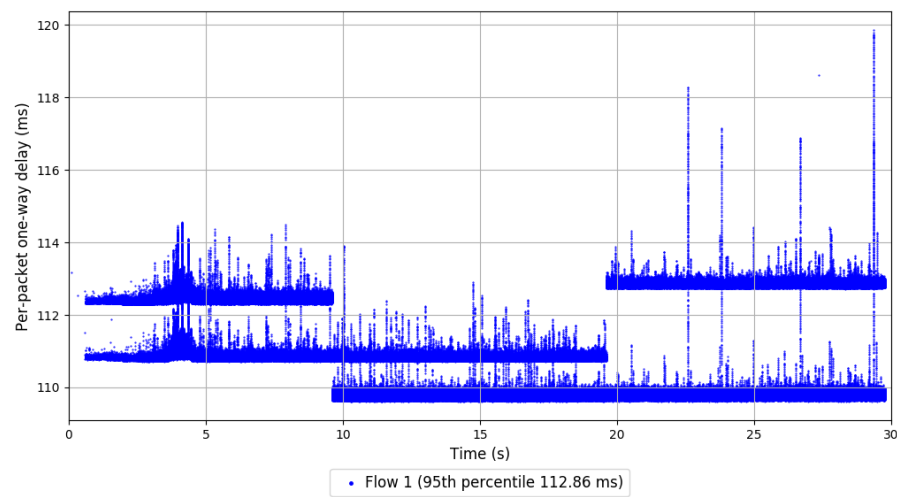
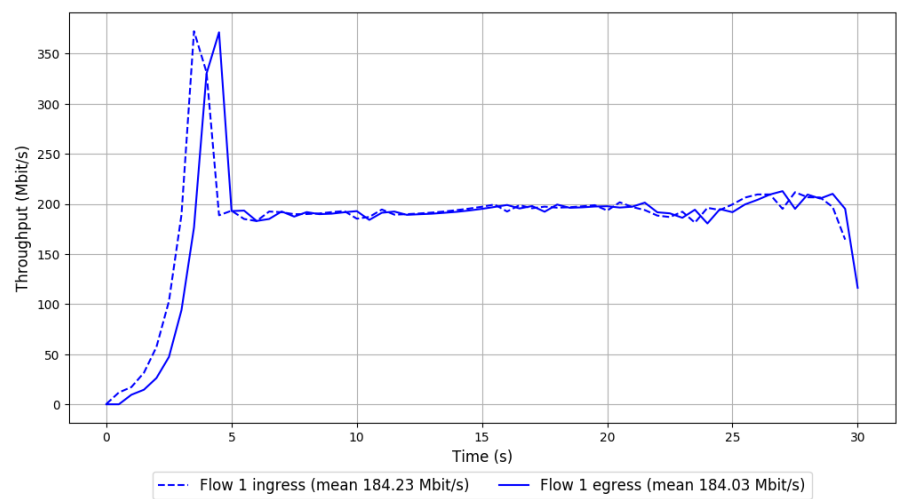
-- Flow 1:

Average throughput: 184.03 Mbit/s

95th percentile per-packet one-way delay: 112.864 ms

Loss rate: 0.85%

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2018-06-18 19:40:34

End at: 2018-06-18 19:41:04

Local clock offset: 1.509 ms

Remote clock offset: 0.05 ms

Below is generated by plot.py at 2018-06-18 23:09:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 231.11 Mbit/s

95th percentile per-packet one-way delay: 112.507 ms

Loss rate: 0.89%

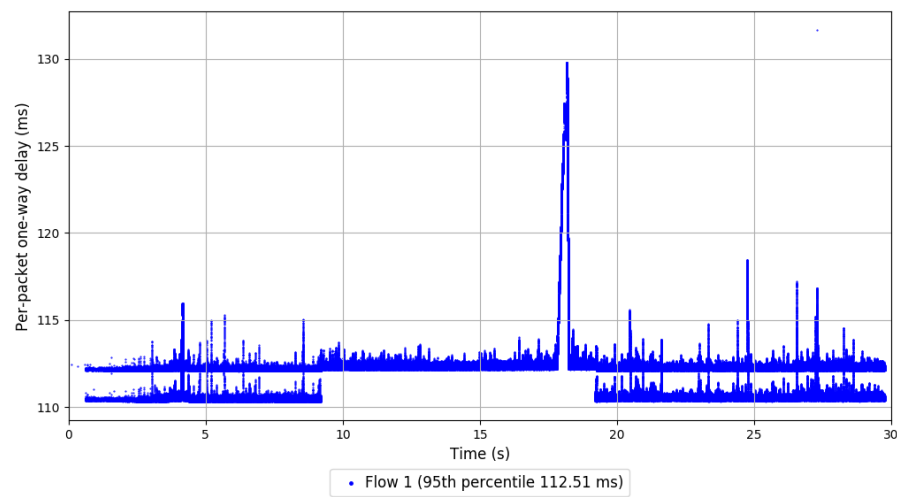
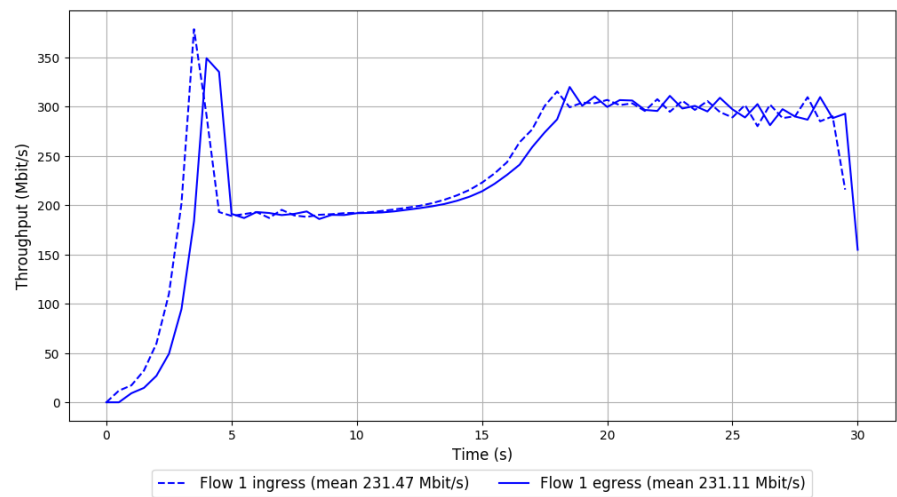
-- Flow 1:

Average throughput: 231.11 Mbit/s

95th percentile per-packet one-way delay: 112.507 ms

Loss rate: 0.89%

Run 3: Report of PCC-Expr — Data Link

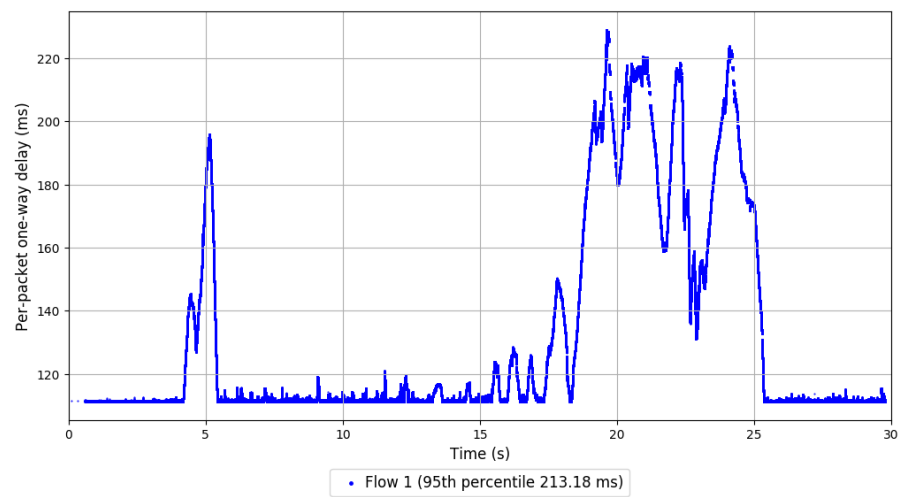
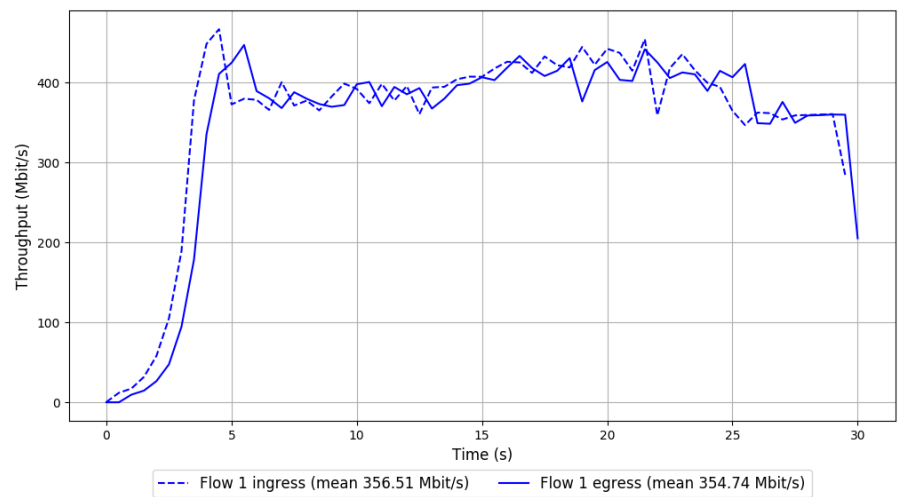


Run 4: Statistics of PCC-Expr

Start at: 2018-06-18 20:01:23
End at: 2018-06-18 20:01:53
Local clock offset: 0.147 ms
Remote clock offset: -0.453 ms

Below is generated by plot.py at 2018-06-18 23:14:19
Datalink statistics
-- Total of 1 flow:
Average throughput: 354.74 Mbit/s
95th percentile per-packet one-way delay: 213.183 ms
Loss rate: 1.23%
-- Flow 1:
Average throughput: 354.74 Mbit/s
95th percentile per-packet one-way delay: 213.183 ms
Loss rate: 1.23%

Run 4: Report of PCC-Expr — Data Link

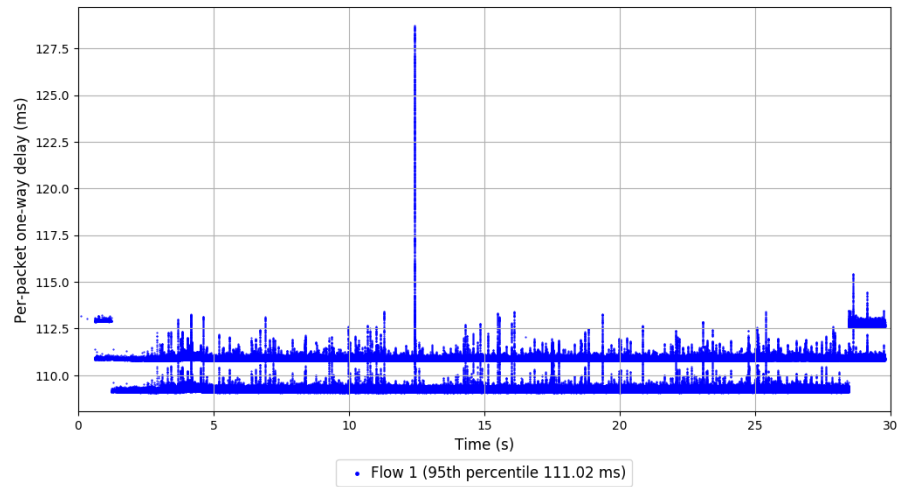
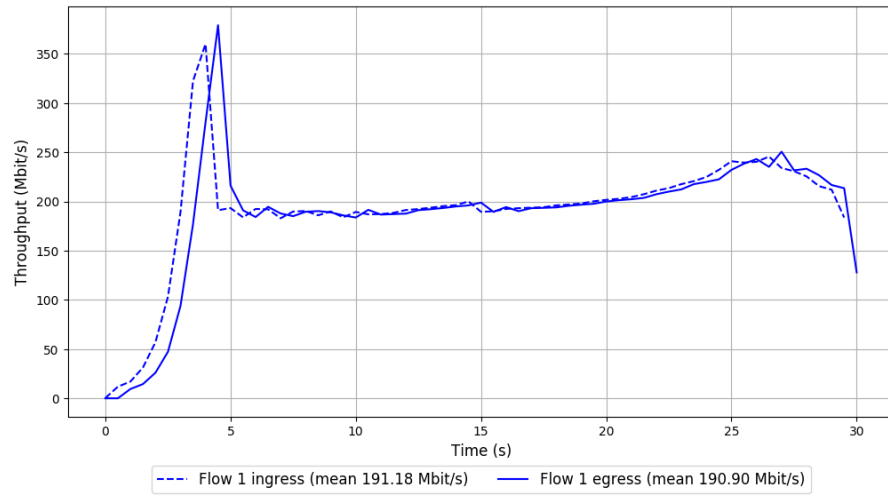


Run 5: Statistics of PCC-Expr

Start at: 2018-06-18 20:22:32
End at: 2018-06-18 20:23:02
Local clock offset: -0.033 ms
Remote clock offset: -0.365 ms

Below is generated by plot.py at 2018-06-18 23:14:19
Datalink statistics
-- Total of 1 flow:
Average throughput: 190.90 Mbit/s
95th percentile per-packet one-way delay: 111.022 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 190.90 Mbit/s
95th percentile per-packet one-way delay: 111.022 ms
Loss rate: 0.89%

Run 5: Report of PCC-Expr — Data Link

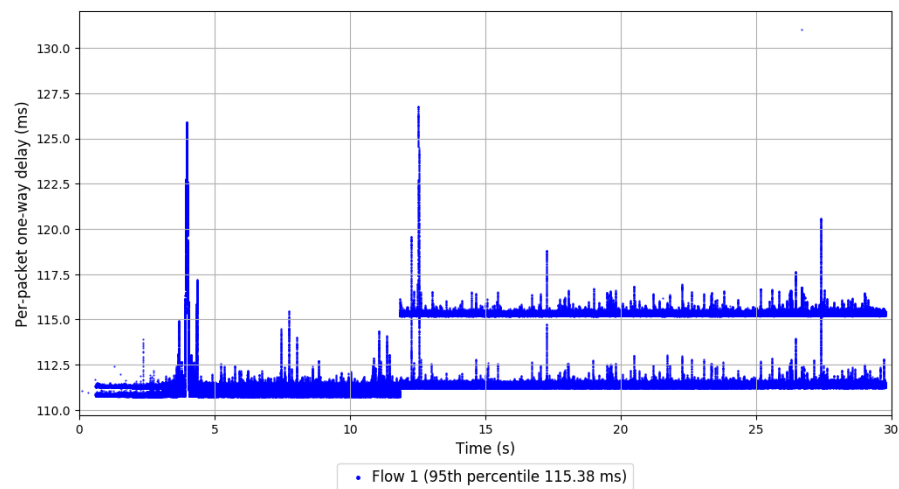
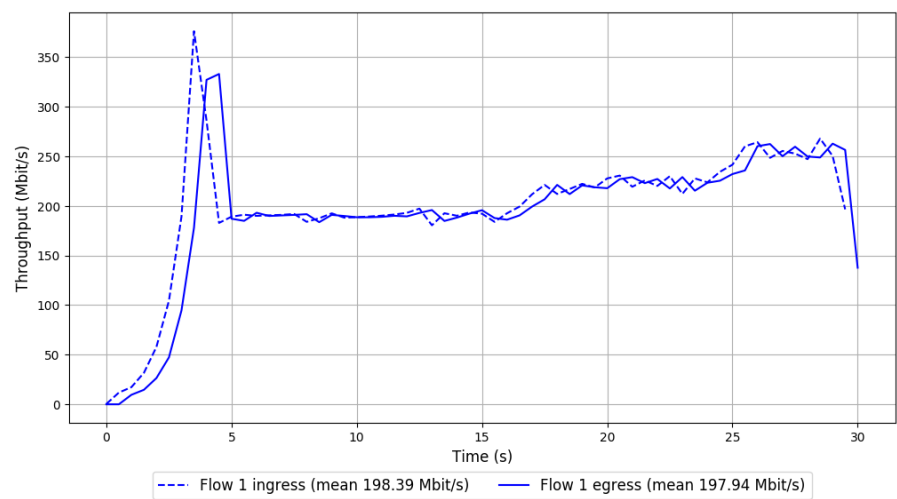


Run 6: Statistics of PCC-Expr

Start at: 2018-06-18 20:43:11
End at: 2018-06-18 20:43:41
Local clock offset: 0.138 ms
Remote clock offset: -0.276 ms

Below is generated by plot.py at 2018-06-18 23:14:19
Datalink statistics
-- Total of 1 flow:
Average throughput: 197.94 Mbit/s
95th percentile per-packet one-way delay: 115.376 ms
Loss rate: 0.97%
-- Flow 1:
Average throughput: 197.94 Mbit/s
95th percentile per-packet one-way delay: 115.376 ms
Loss rate: 0.97%

Run 6: Report of PCC-Expr — Data Link

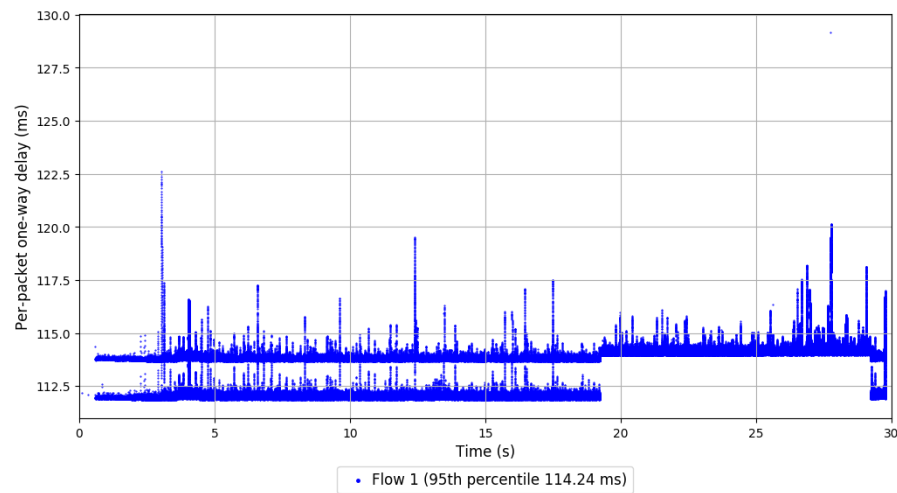
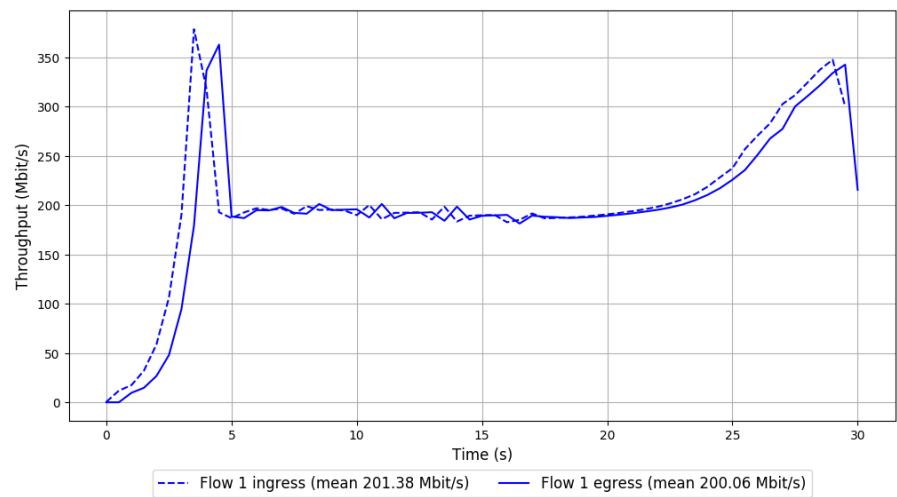


Run 7: Statistics of PCC-Expr

Start at: 2018-06-18 21:03:44
End at: 2018-06-18 21:04:14
Local clock offset: 0.912 ms
Remote clock offset: -0.391 ms

Below is generated by plot.py at 2018-06-18 23:15:06
Datalink statistics
-- Total of 1 flow:
Average throughput: 200.06 Mbit/s
95th percentile per-packet one-way delay: 114.242 ms
Loss rate: 1.39%
-- Flow 1:
Average throughput: 200.06 Mbit/s
95th percentile per-packet one-way delay: 114.242 ms
Loss rate: 1.39%

Run 7: Report of PCC-Expr — Data Link



Run 8: Statistics of PCC-Expr

Start at: 2018-06-18 21:24:31

End at: 2018-06-18 21:25:01

Local clock offset: 0.967 ms

Remote clock offset: 0.028 ms

Below is generated by plot.py at 2018-06-18 23:20:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 359.11 Mbit/s

95th percentile per-packet one-way delay: 191.776 ms

Loss rate: 1.81%

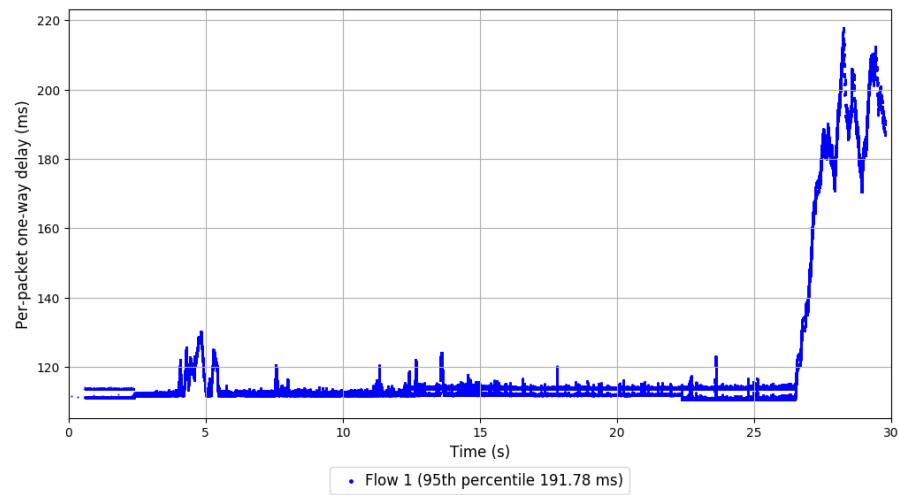
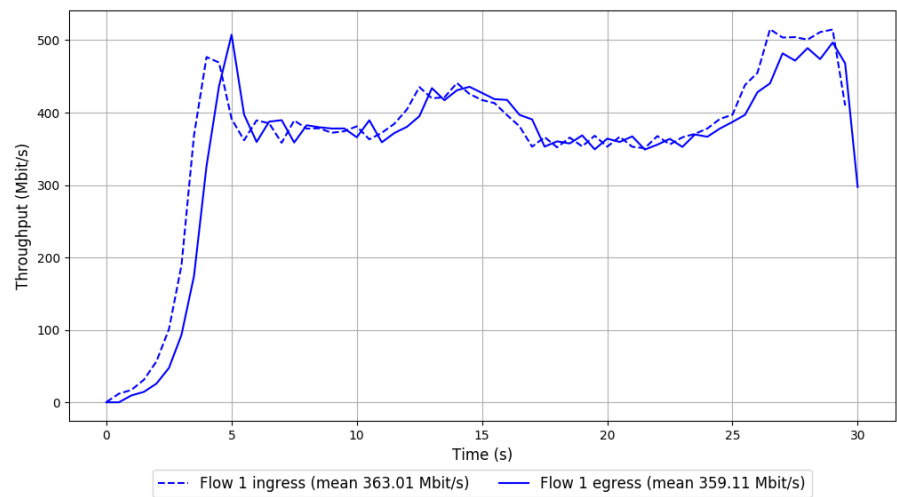
-- Flow 1:

Average throughput: 359.11 Mbit/s

95th percentile per-packet one-way delay: 191.776 ms

Loss rate: 1.81%

Run 8: Report of PCC-Expr — Data Link

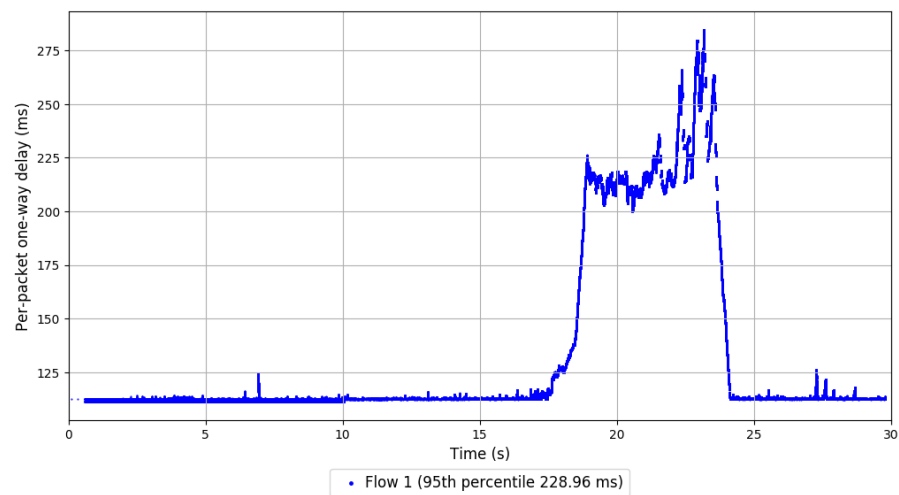
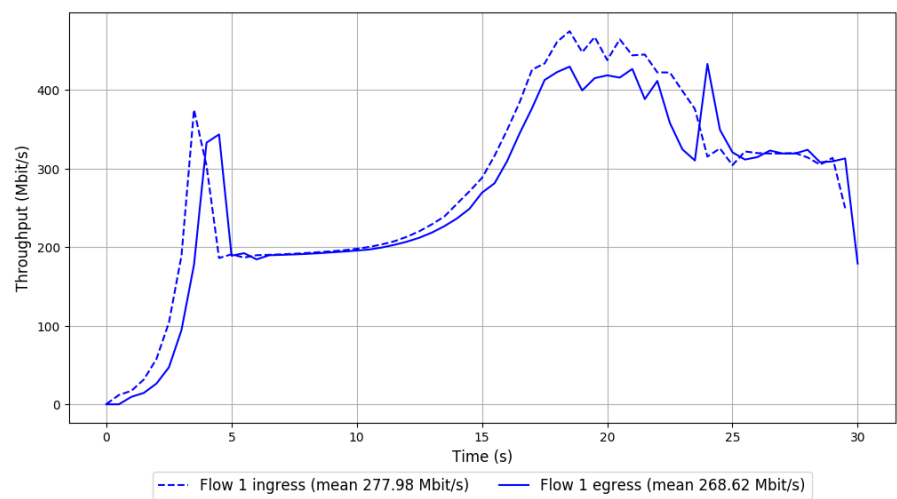


Run 9: Statistics of PCC-Expr

Start at: 2018-06-18 21:45:33
End at: 2018-06-18 21:46:03
Local clock offset: 1.164 ms
Remote clock offset: -0.331 ms

Below is generated by plot.py at 2018-06-18 23:20:17
Datalink statistics
-- Total of 1 flow:
Average throughput: 268.62 Mbit/s
95th percentile per-packet one-way delay: 228.959 ms
Loss rate: 4.09%
-- Flow 1:
Average throughput: 268.62 Mbit/s
95th percentile per-packet one-way delay: 228.959 ms
Loss rate: 4.09%

Run 9: Report of PCC-Expr — Data Link



Run 10: Statistics of PCC-Expr

Start at: 2018-06-18 22:06:34

End at: 2018-06-18 22:07:04

Local clock offset: -0.04 ms

Remote clock offset: -0.353 ms

Below is generated by plot.py at 2018-06-18 23:20:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 343.33 Mbit/s

95th percentile per-packet one-way delay: 151.367 ms

Loss rate: 1.31%

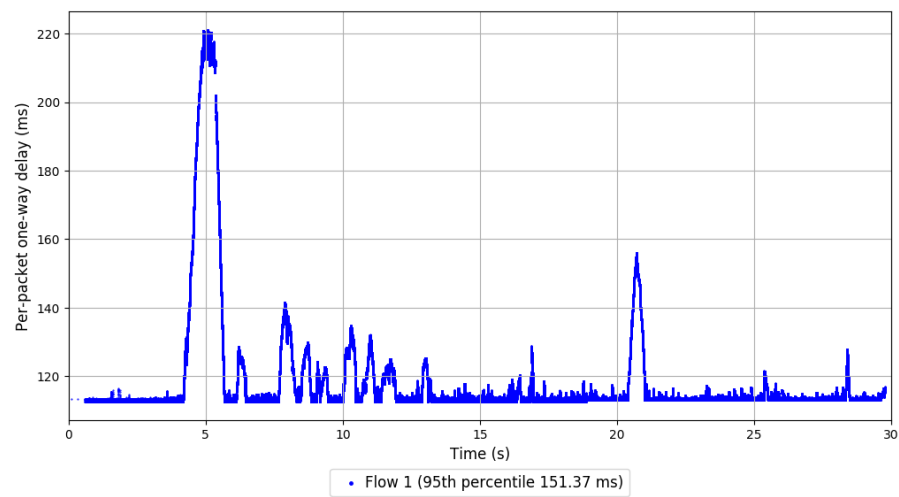
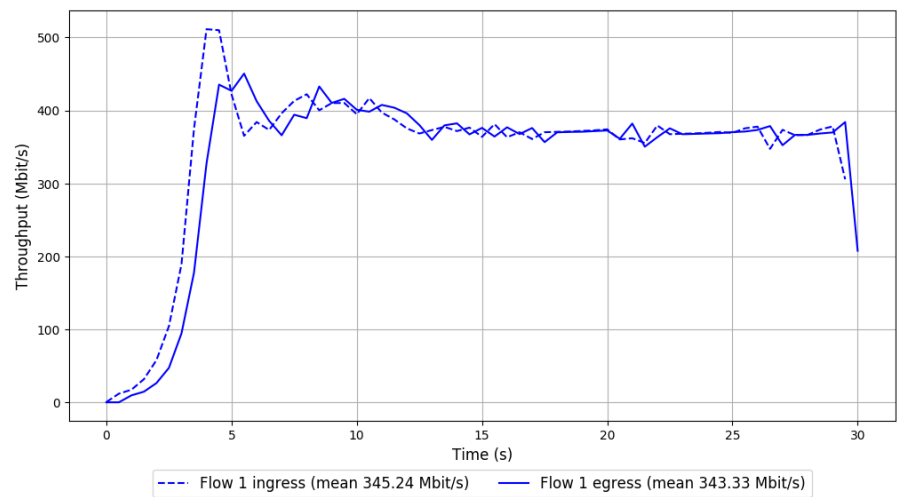
-- Flow 1:

Average throughput: 343.33 Mbit/s

95th percentile per-packet one-way delay: 151.367 ms

Loss rate: 1.31%

Run 10: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

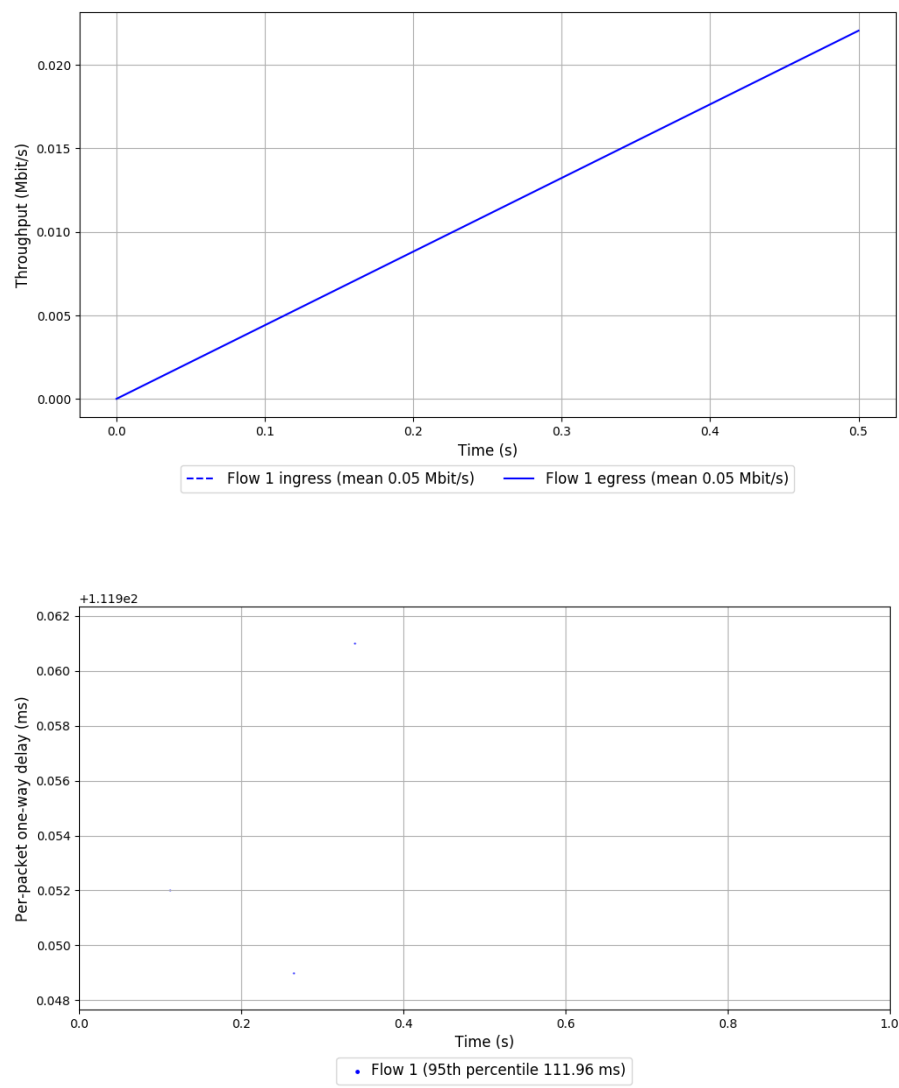
Start at: 2018-06-18 18:54:55

End at: 2018-06-18 18:55:25

Local clock offset: -0.143 ms

Remote clock offset: 0.027 ms

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-06-18 19:15:55

End at: 2018-06-18 19:16:25

Local clock offset: -0.083 ms

Remote clock offset: 0.043 ms

Below is generated by plot.py at 2018-06-18 23:20:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 59.27 Mbit/s

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

Loss rate: 1.01%

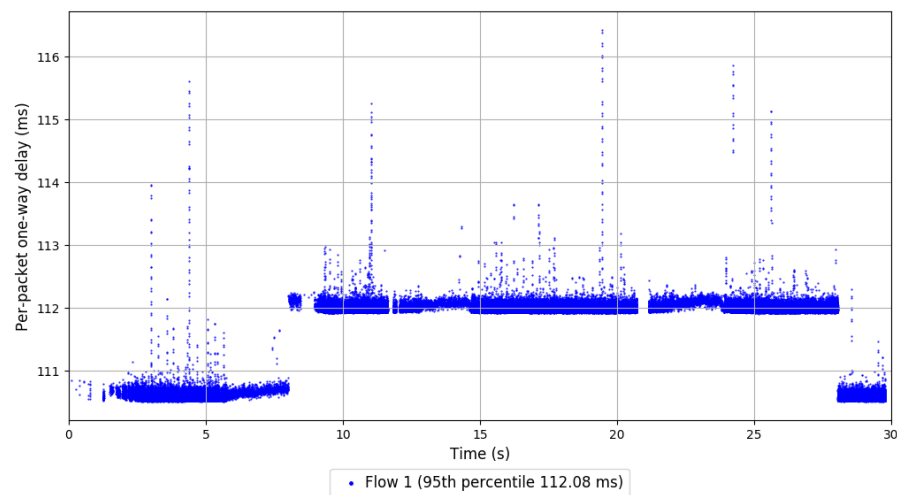
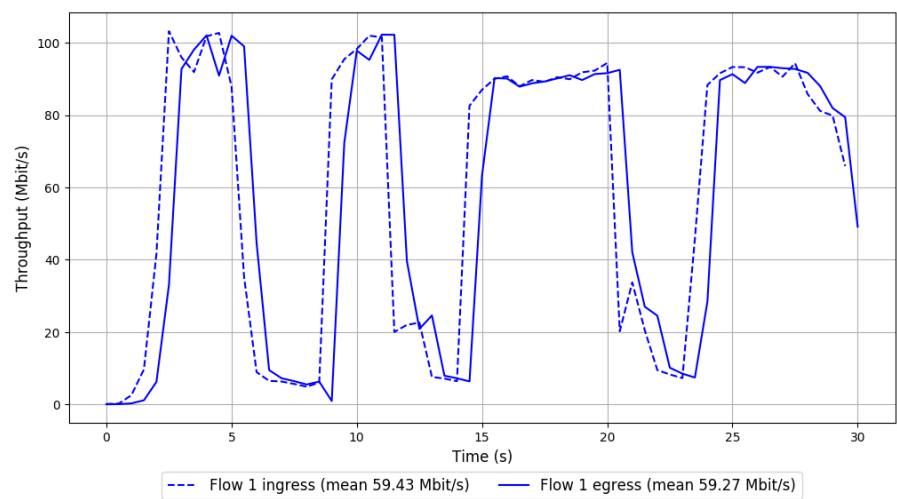
-- Flow 1:

Average throughput: 59.27 Mbit/s

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

Loss rate: 1.01%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-06-18 19:36:42

End at: 2018-06-18 19:37:12

Local clock offset: -0.091 ms

Remote clock offset: 0.445 ms

Below is generated by plot.py at 2018-06-18 23:20:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 53.04 Mbit/s

95th percentile per-packet one-way delay: 111.871 ms

Loss rate: 0.98%

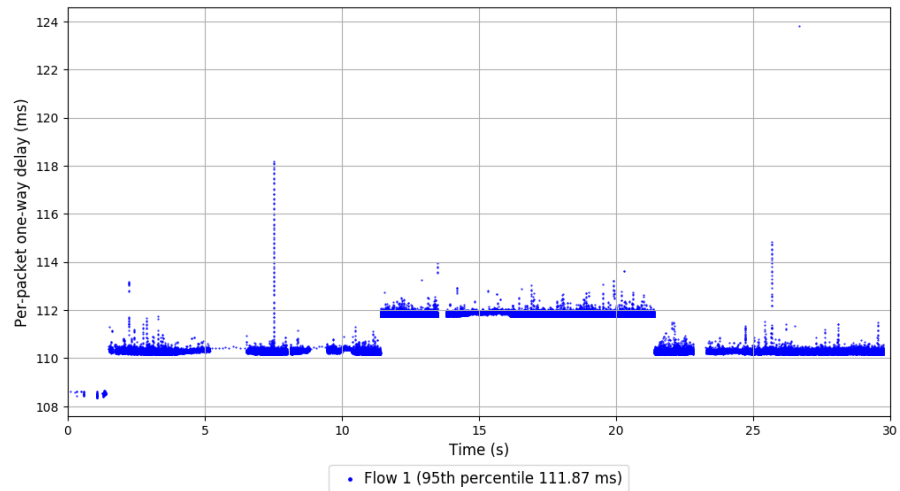
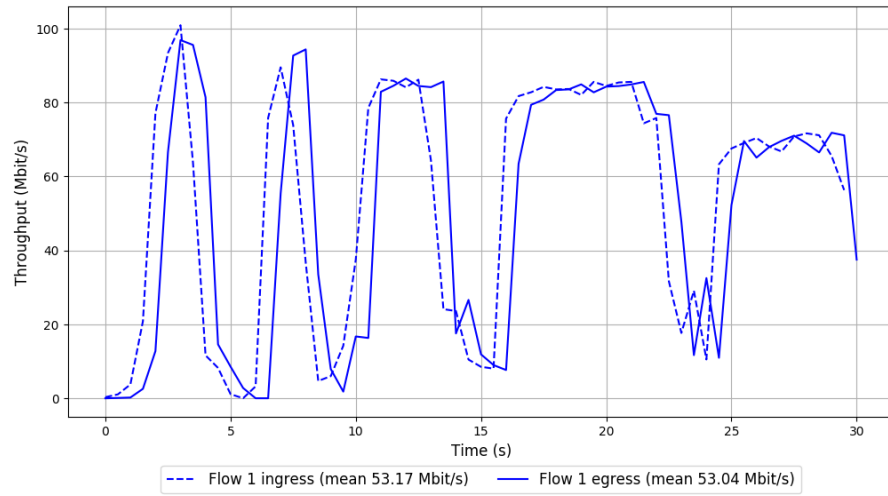
-- Flow 1:

Average throughput: 53.04 Mbit/s

95th percentile per-packet one-way delay: 111.871 ms

Loss rate: 0.98%

Run 3: Report of QUIC Cubic — Data Link

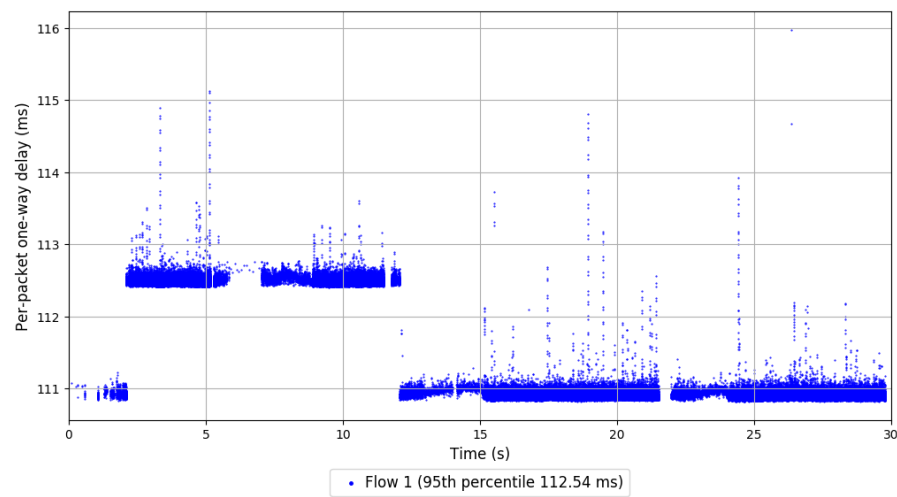
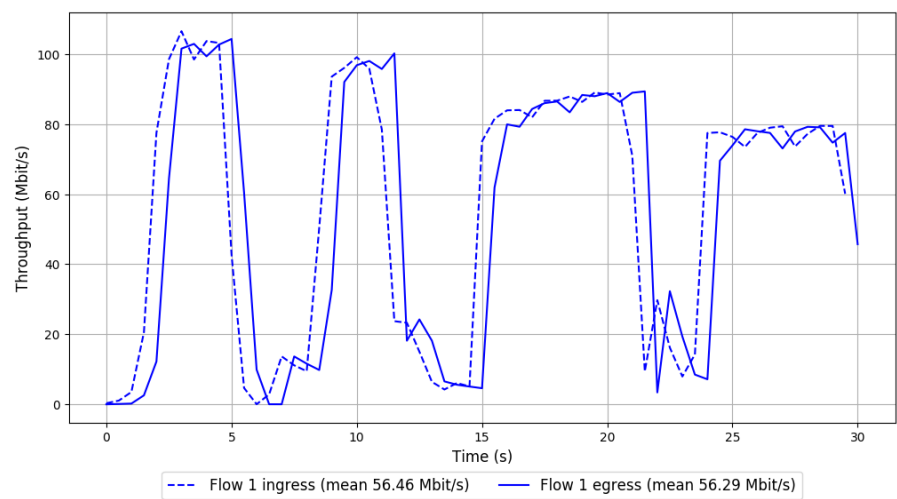


Run 4: Statistics of QUIC Cubic

Start at: 2018-06-18 19:57:31
End at: 2018-06-18 19:58:01
Local clock offset: -0.222 ms
Remote clock offset: -0.428 ms

Below is generated by plot.py at 2018-06-18 23:20:17
Datalink statistics
-- Total of 1 flow:
Average throughput: 56.29 Mbit/s
95th percentile per-packet one-way delay: 112.544 ms
Loss rate: 1.03%
-- Flow 1:
Average throughput: 56.29 Mbit/s
95th percentile per-packet one-way delay: 112.544 ms
Loss rate: 1.03%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-06-18 20:18:35

End at: 2018-06-18 20:19:05

Local clock offset: -1.504 ms

Remote clock offset: 0.006 ms

Below is generated by plot.py at 2018-06-18 23:20:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 59.20 Mbit/s

95th percentile per-packet one-way delay: 111.116 ms

Loss rate: 0.97%

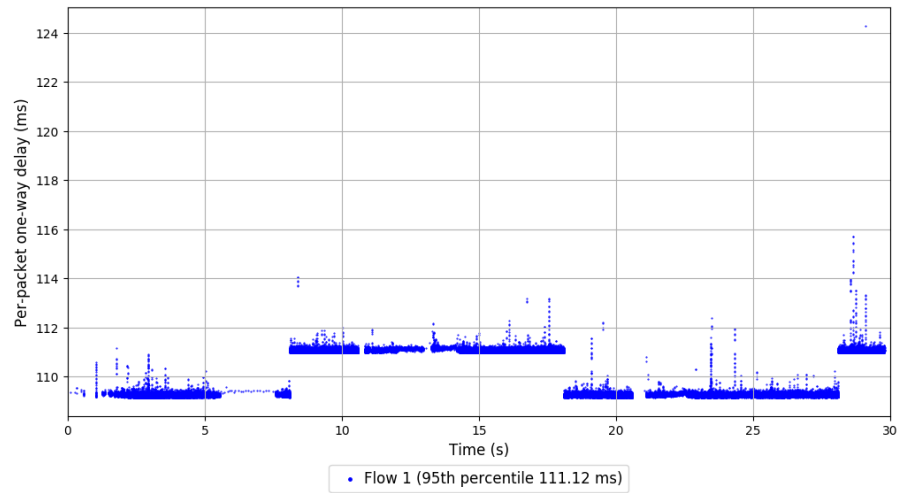
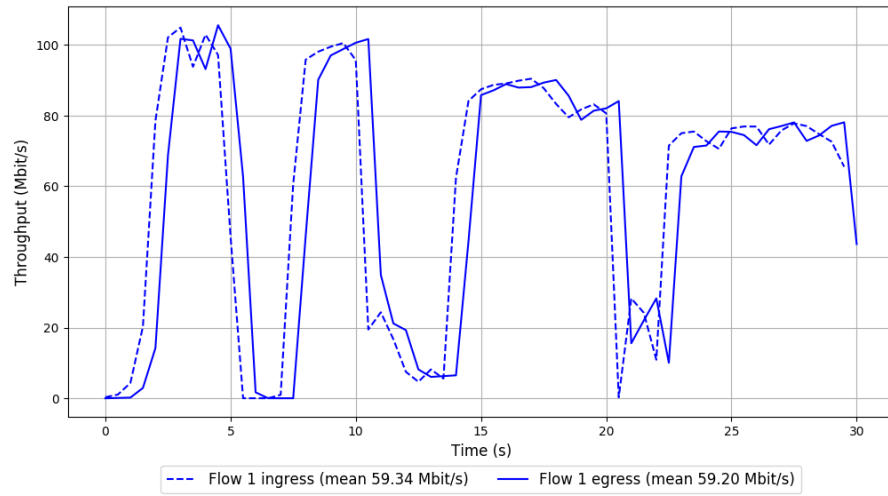
-- Flow 1:

Average throughput: 59.20 Mbit/s

95th percentile per-packet one-way delay: 111.116 ms

Loss rate: 0.97%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-06-18 20:39:14

End at: 2018-06-18 20:39:44

Local clock offset: 1.199 ms

Remote clock offset: 0.471 ms

Below is generated by plot.py at 2018-06-18 23:20:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 57.84 Mbit/s

95th percentile per-packet one-way delay: 113.614 ms

Loss rate: 1.02%

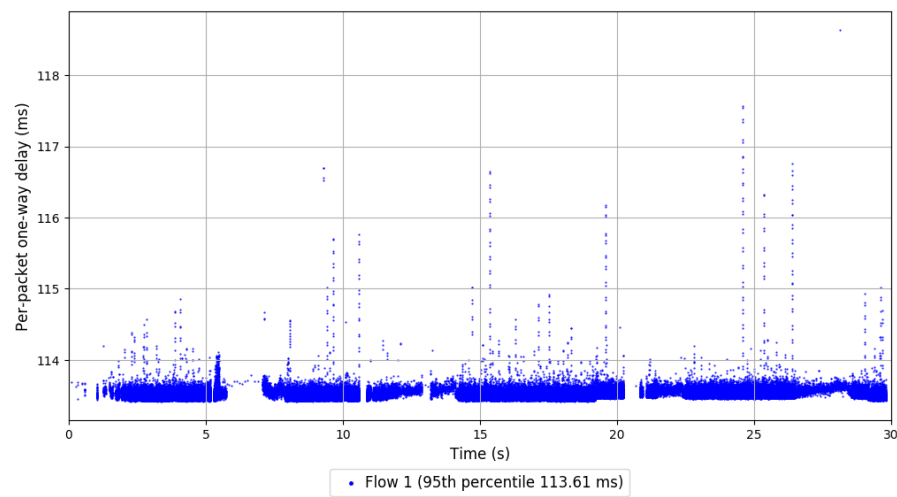
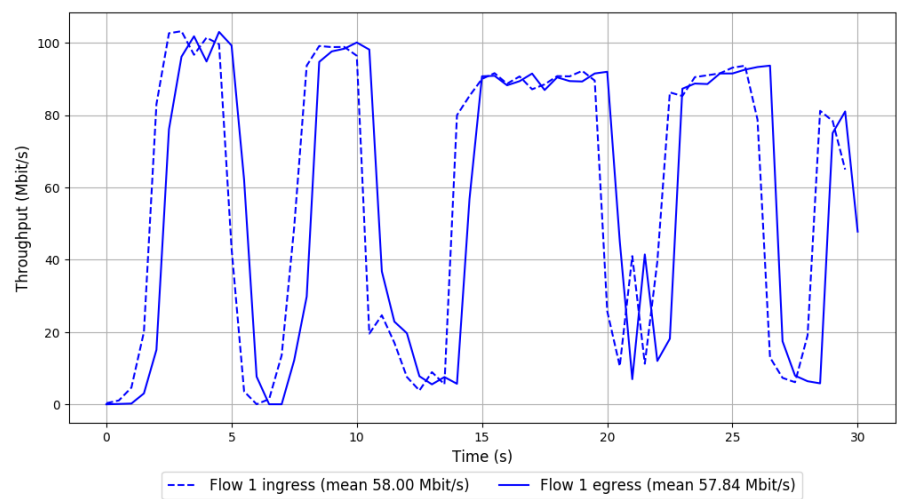
-- Flow 1:

Average throughput: 57.84 Mbit/s

95th percentile per-packet one-way delay: 113.614 ms

Loss rate: 1.02%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-06-18 20:59:46

End at: 2018-06-18 21:00:16

Local clock offset: 0.914 ms

Remote clock offset: 0.03 ms

Below is generated by plot.py at 2018-06-18 23:20:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 55.27 Mbit/s

95th percentile per-packet one-way delay: 113.271 ms

Loss rate: 0.98%

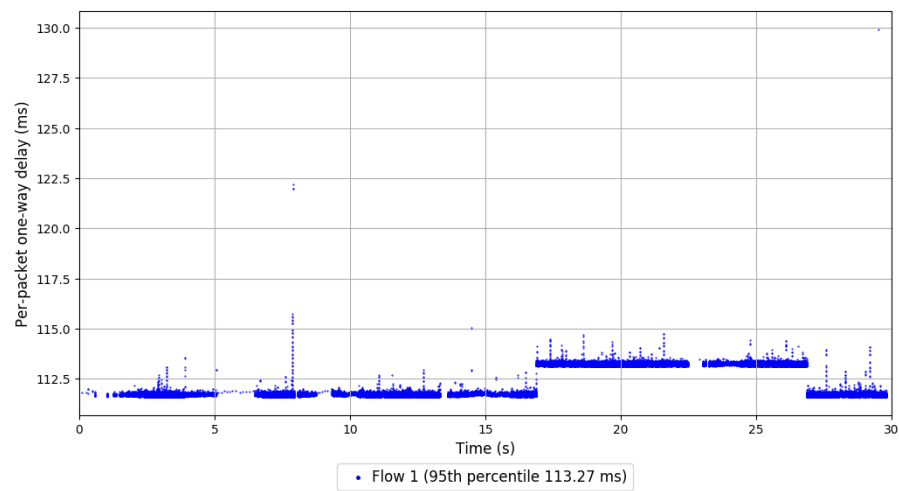
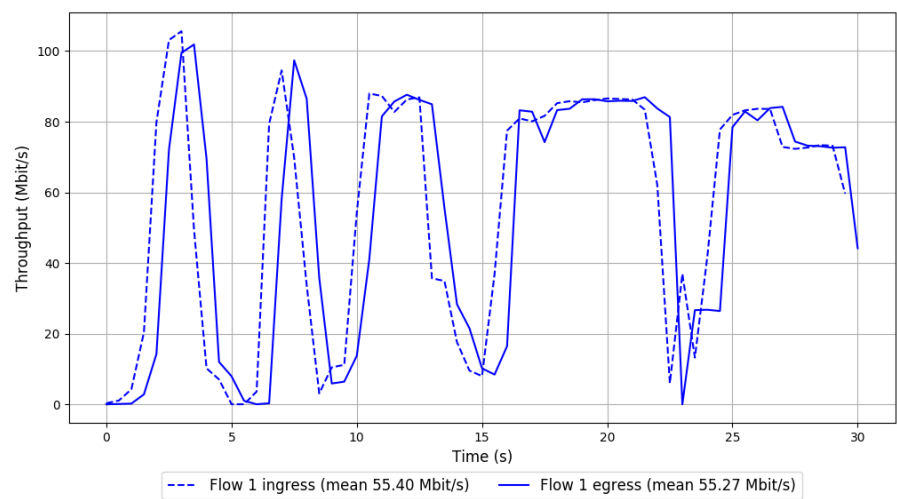
-- Flow 1:

Average throughput: 55.27 Mbit/s

95th percentile per-packet one-way delay: 113.271 ms

Loss rate: 0.98%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-06-18 21:20:40

End at: 2018-06-18 21:21:10

Local clock offset: -0.302 ms

Remote clock offset: 0.009 ms

Below is generated by plot.py at 2018-06-18 23:20:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 59.97 Mbit/s

95th percentile per-packet one-way delay: 112.235 ms

Loss rate: 1.10%

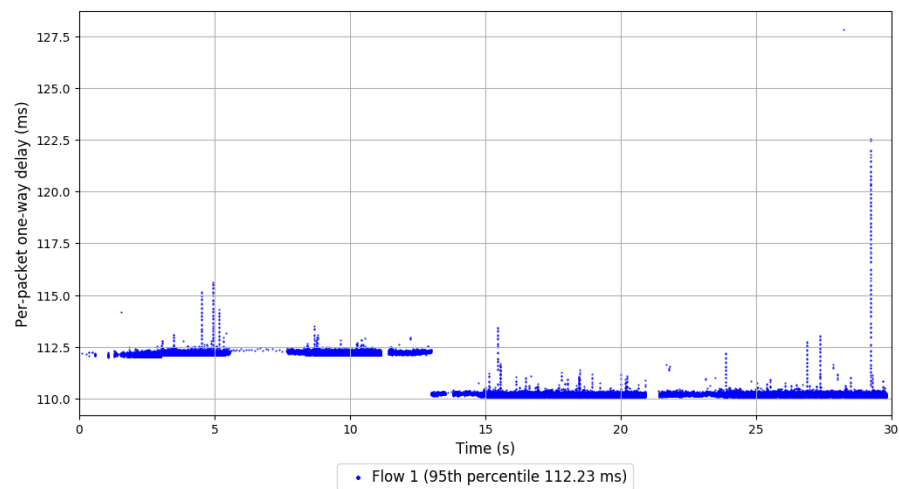
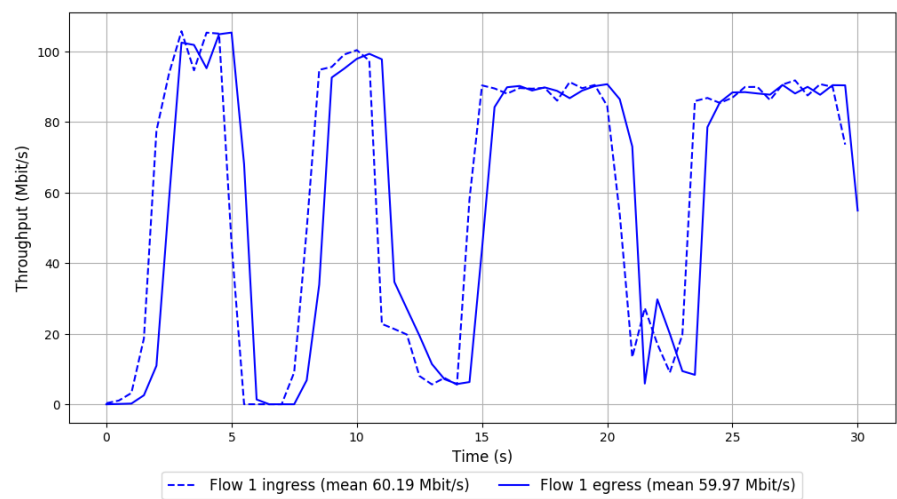
-- Flow 1:

Average throughput: 59.97 Mbit/s

95th percentile per-packet one-way delay: 112.235 ms

Loss rate: 1.10%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-06-18 21:41:32

End at: 2018-06-18 21:42:02

Local clock offset: -0.095 ms

Remote clock offset: 0.08 ms

Below is generated by plot.py at 2018-06-18 23:20:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 62.47 Mbit/s

95th percentile per-packet one-way delay: 111.595 ms

Loss rate: 1.14%

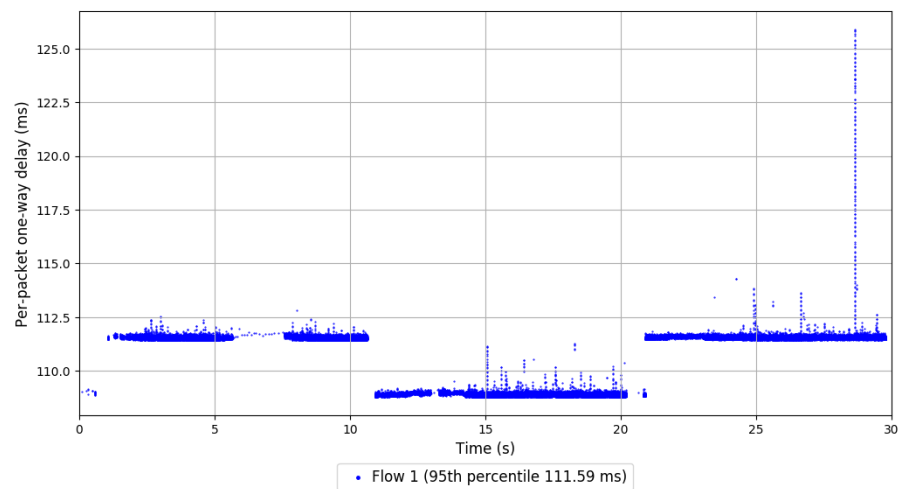
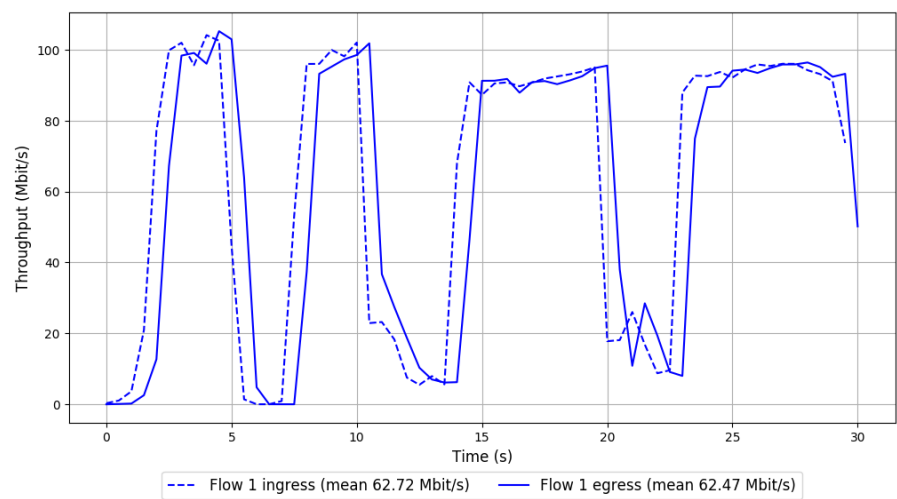
-- Flow 1:

Average throughput: 62.47 Mbit/s

95th percentile per-packet one-way delay: 111.595 ms

Loss rate: 1.14%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

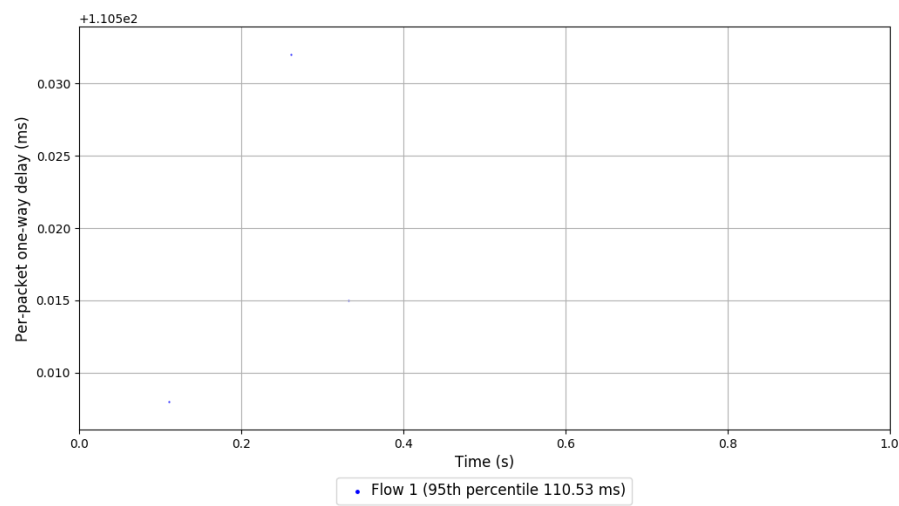
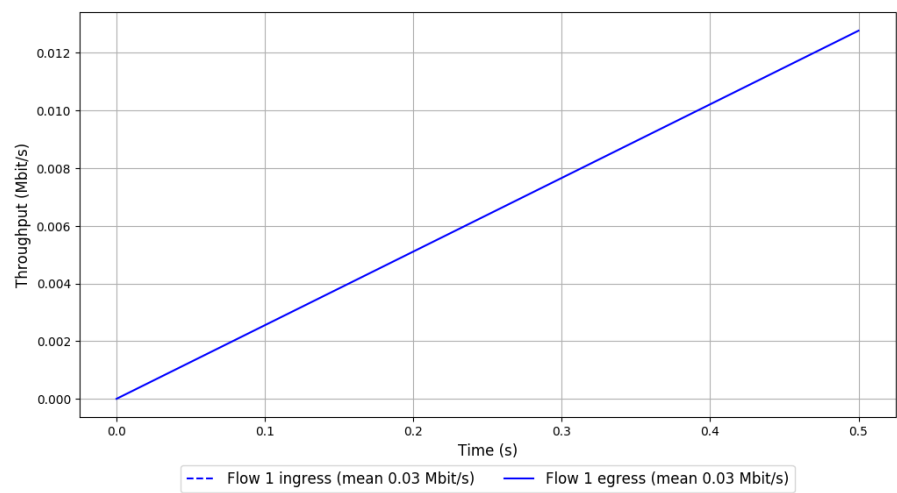
Start at: 2018-06-18 22:02:44

End at: 2018-06-18 22:03:14

Local clock offset: -0.198 ms

Remote clock offset: 0.053 ms

Run 10: Report of QUIC Cubic — Data Link

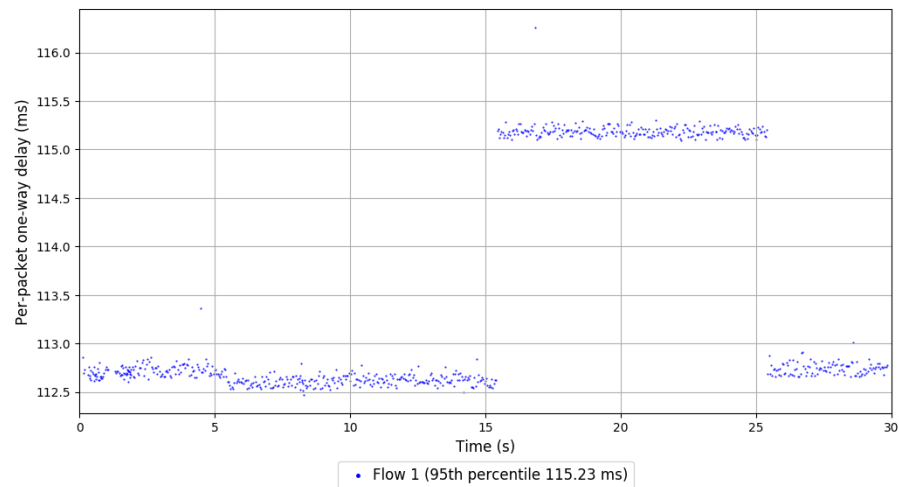
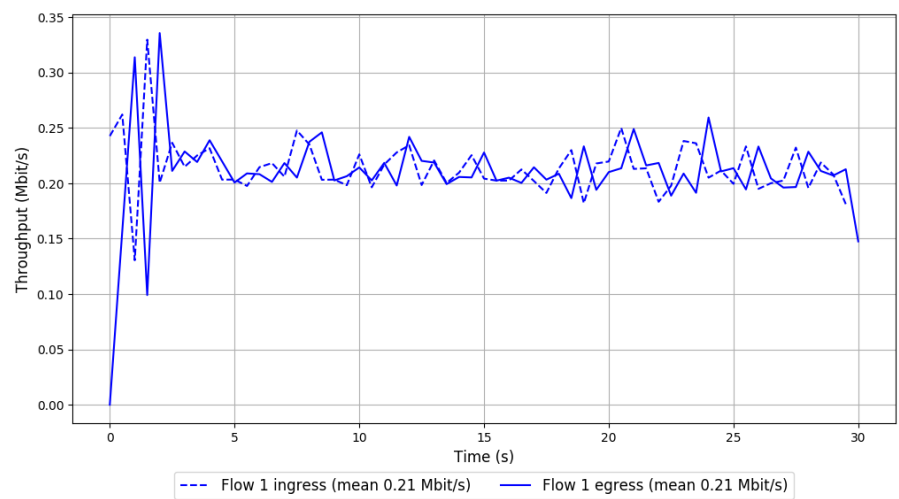


Run 1: Statistics of SCReAM

Start at: 2018-06-18 18:53:48
End at: 2018-06-18 18:54:18
Local clock offset: -0.107 ms
Remote clock offset: -0.395 ms

Below is generated by plot.py at 2018-06-18 23:20:17
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 115.229 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 115.229 ms
Loss rate: 0.64%

Run 1: Report of SReAM — Data Link

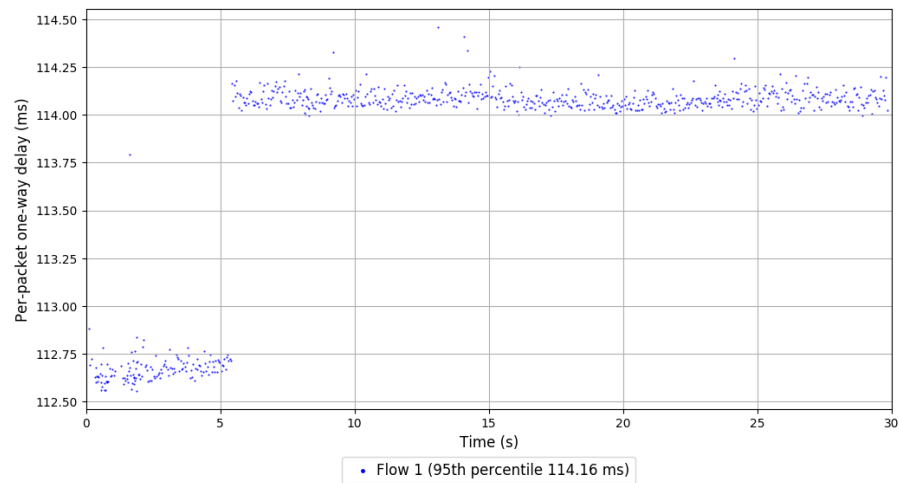
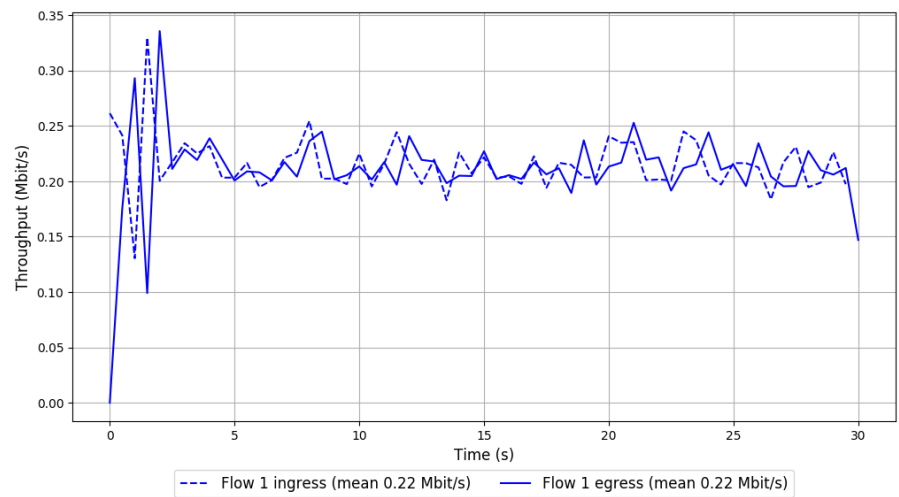


Run 2: Statistics of SCReAM

Start at: 2018-06-18 19:14:48
End at: 2018-06-18 19:15:18
Local clock offset: 1.27 ms
Remote clock offset: -0.352 ms

Below is generated by plot.py at 2018-06-18 23:20:17
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 114.158 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 114.158 ms
Loss rate: 0.77%

Run 2: Report of SReAM — Data Link

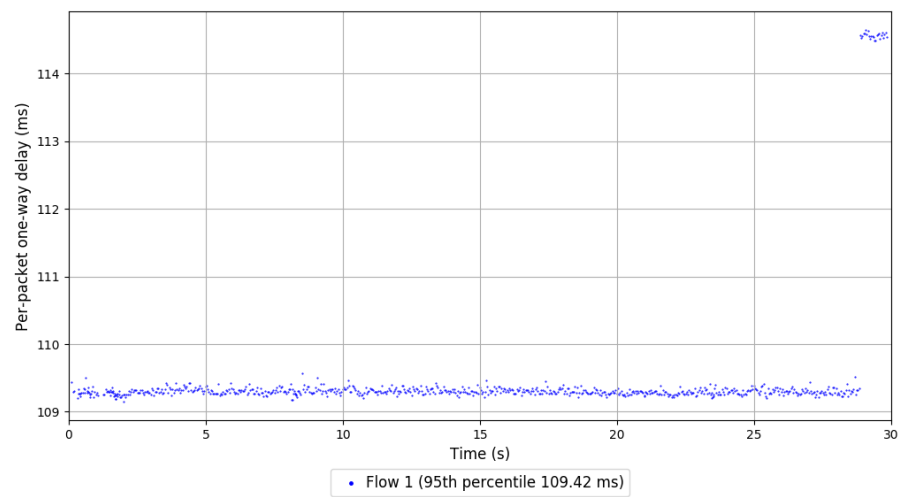
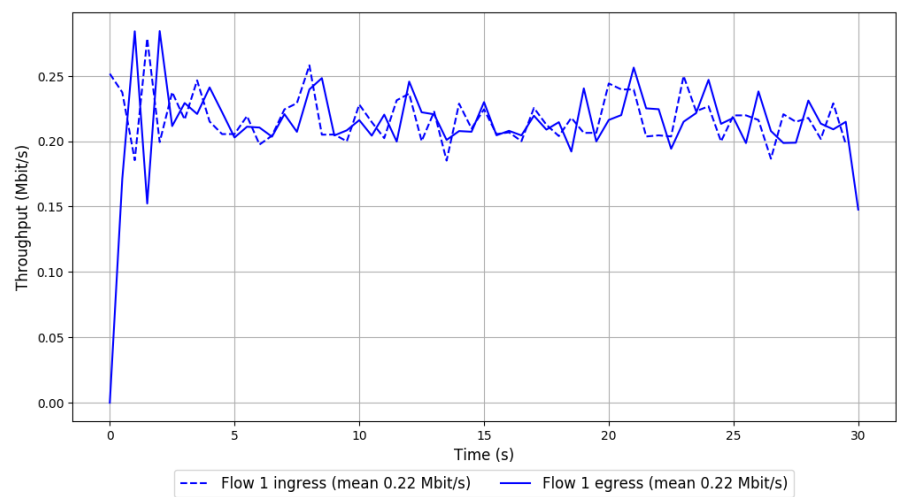


Run 3: Statistics of SCReAM

Start at: 2018-06-18 19:35:34
End at: 2018-06-18 19:36:04
Local clock offset: -0.176 ms
Remote clock offset: -0.328 ms

Below is generated by plot.py at 2018-06-18 23:20:17
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 109.419 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 109.419 ms
Loss rate: 0.76%

Run 3: Report of SReAM — Data Link

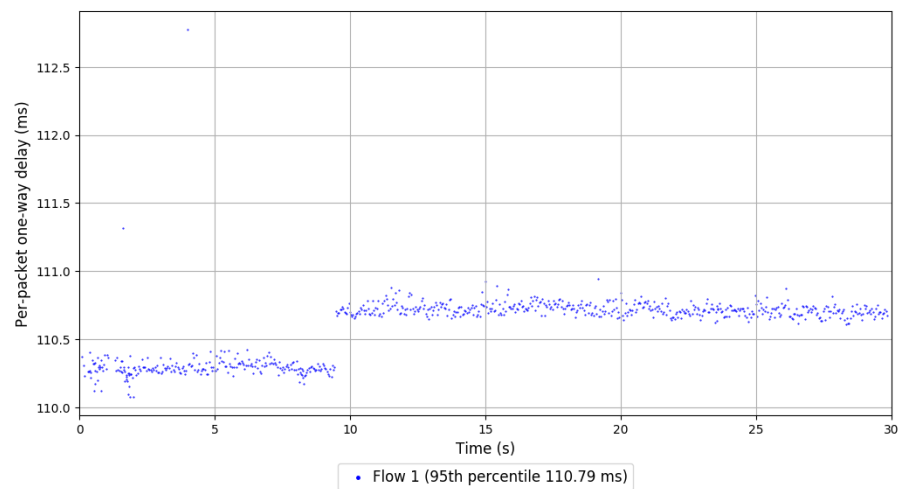
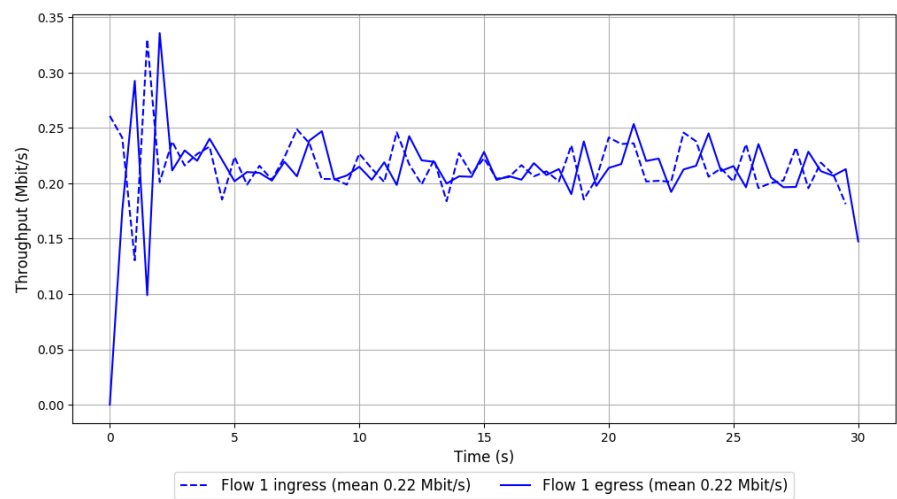


Run 4: Statistics of SCReAM

Start at: 2018-06-18 19:56:24
End at: 2018-06-18 19:56:54
Local clock offset: -0.249 ms
Remote clock offset: -0.059 ms

Below is generated by plot.py at 2018-06-18 23:20:17
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 110.787 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 110.787 ms
Loss rate: 0.64%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-06-18 20:17:28

End at: 2018-06-18 20:17:58

Local clock offset: -0.47 ms

Remote clock offset: 0.005 ms

Below is generated by plot.py at 2018-06-18 23:20:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 112.098 ms

Loss rate: 0.76%

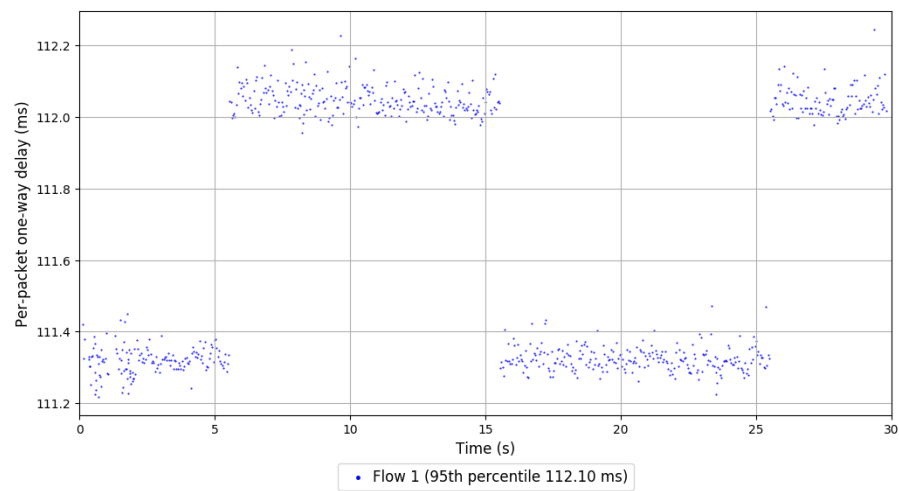
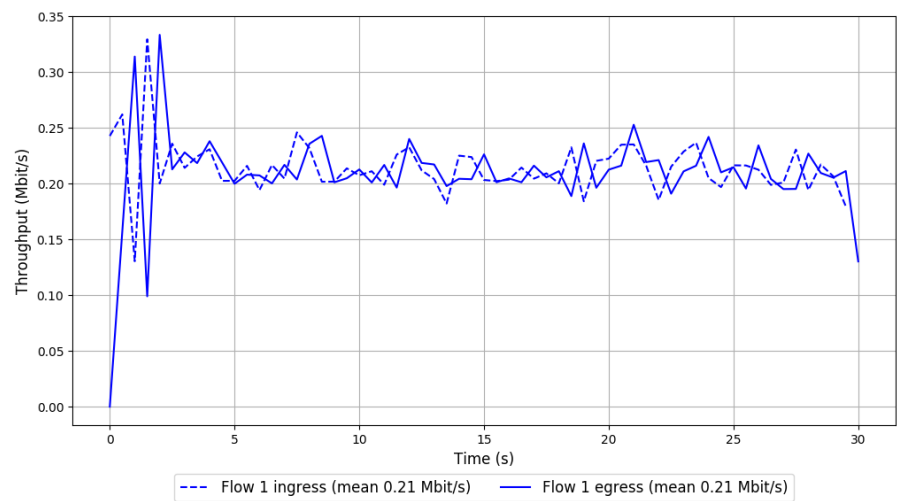
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 112.098 ms

Loss rate: 0.76%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-06-18 20:38:07

End at: 2018-06-18 20:38:37

Local clock offset: -0.234 ms

Remote clock offset: 0.442 ms

Below is generated by plot.py at 2018-06-18 23:20:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 112.296 ms

Loss rate: 0.76%

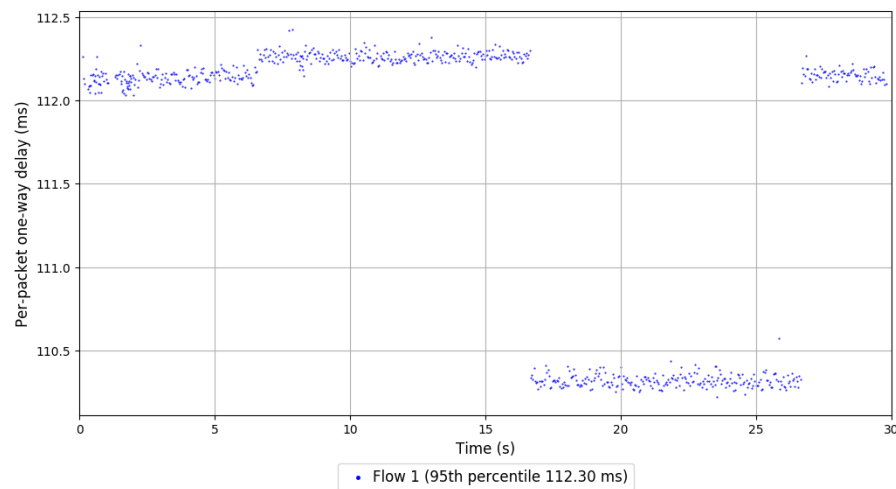
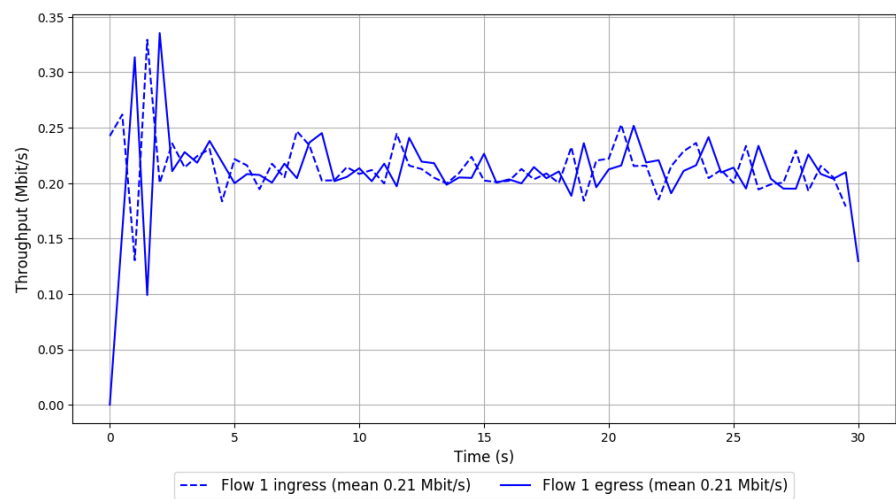
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 112.296 ms

Loss rate: 0.76%

Run 6: Report of SReAM — Data Link

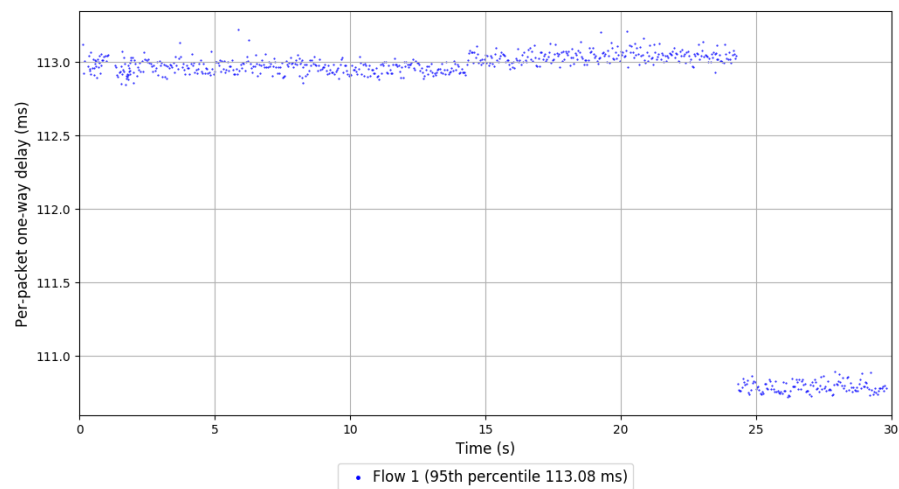
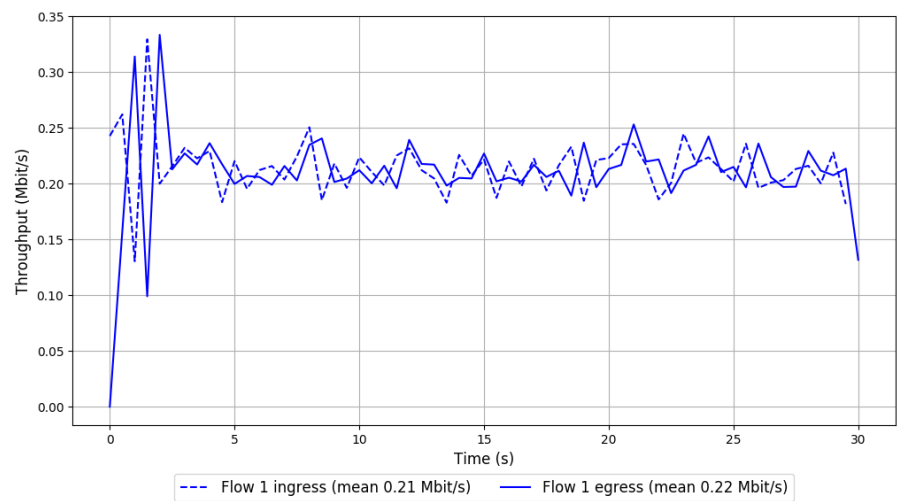


Run 7: Statistics of SCReAM

Start at: 2018-06-18 20:58:39
End at: 2018-06-18 20:59:09
Local clock offset: -0.269 ms
Remote clock offset: -0.353 ms

Below is generated by plot.py at 2018-06-18 23:20:17
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 113.076 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 113.076 ms
Loss rate: 0.77%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-06-18 21:19:33

End at: 2018-06-18 21:20:03

Local clock offset: -1.577 ms

Remote clock offset: 0.016 ms

Below is generated by plot.py at 2018-06-18 23:20:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

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

Loss rate: 0.77%

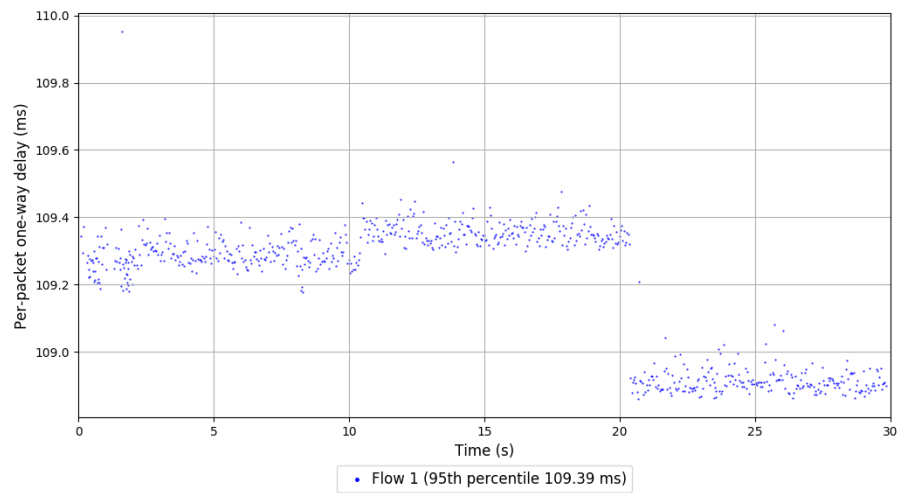
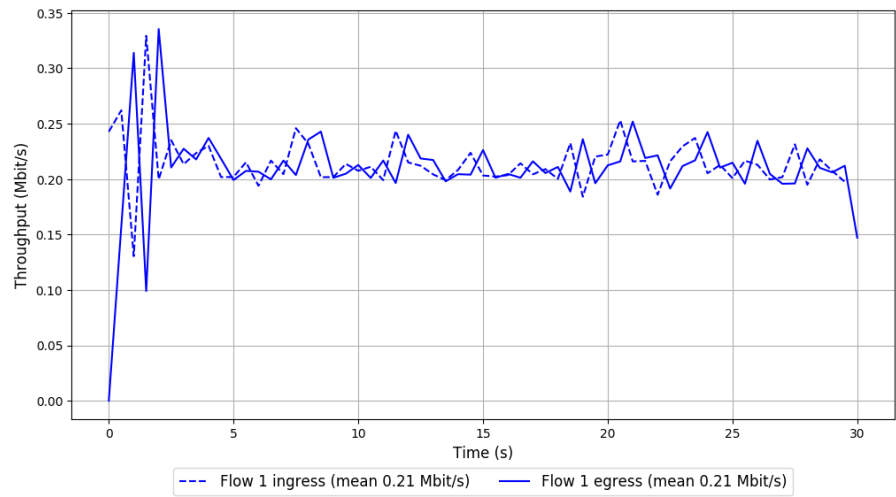
-- Flow 1:

Average throughput: 0.21 Mbit/s

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

Loss rate: 0.77%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-06-18 21:40:25

End at: 2018-06-18 21:40:55

Local clock offset: -0.236 ms

Remote clock offset: 0.05 ms

Below is generated by plot.py at 2018-06-18 23:20:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 112.967 ms

Loss rate: 0.65%

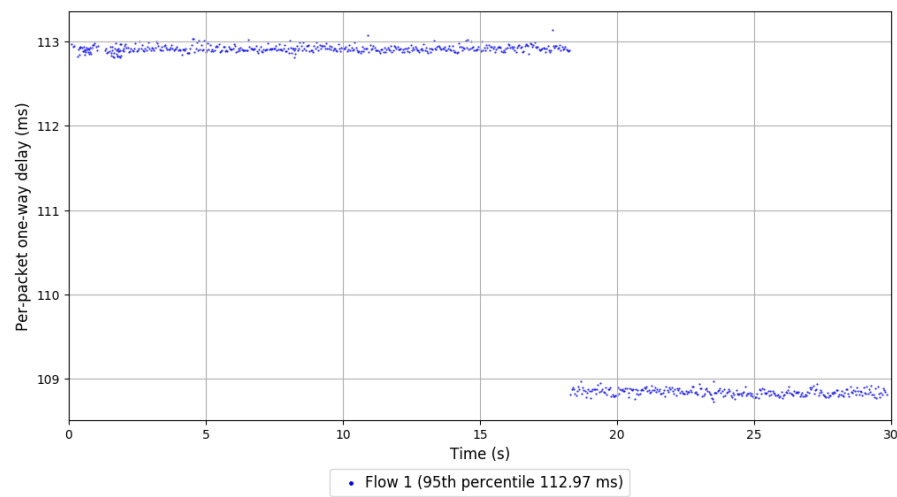
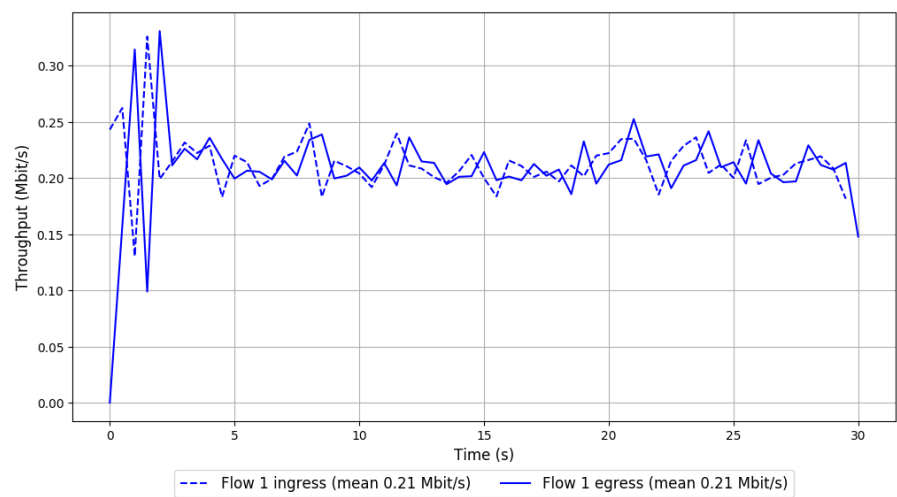
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 112.967 ms

Loss rate: 0.65%

Run 9: Report of SReAM — Data Link

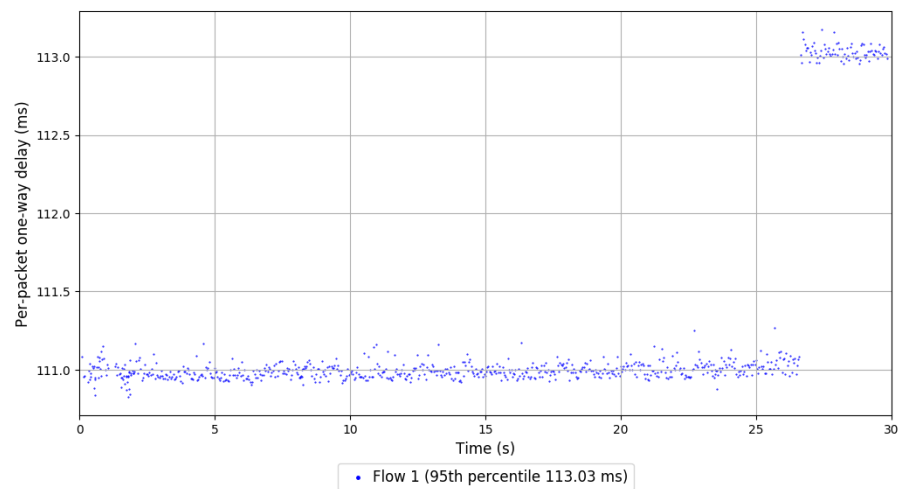
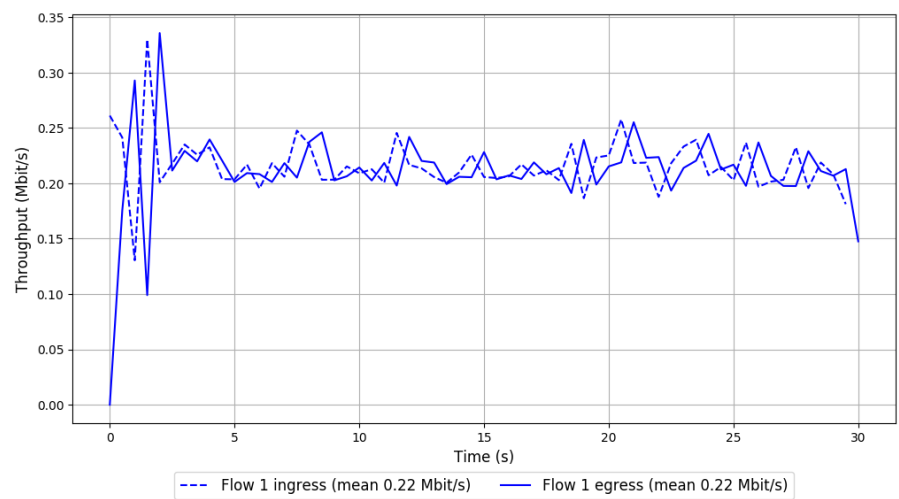


Run 10: Statistics of SCReAM

Start at: 2018-06-18 22:01:37
End at: 2018-06-18 22:02:07
Local clock offset: -0.368 ms
Remote clock offset: -0.338 ms

Below is generated by plot.py at 2018-06-18 23:20:17
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 113.027 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 113.027 ms
Loss rate: 0.64%

Run 10: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2018-06-18 18:47:43

End at: 2018-06-18 18:48:13

Local clock offset: 0.009 ms

Remote clock offset: 0.355 ms

Below is generated by plot.py at 2018-06-18 23:20:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.17 Mbit/s

95th percentile per-packet one-way delay: 112.544 ms

Loss rate: 0.24%

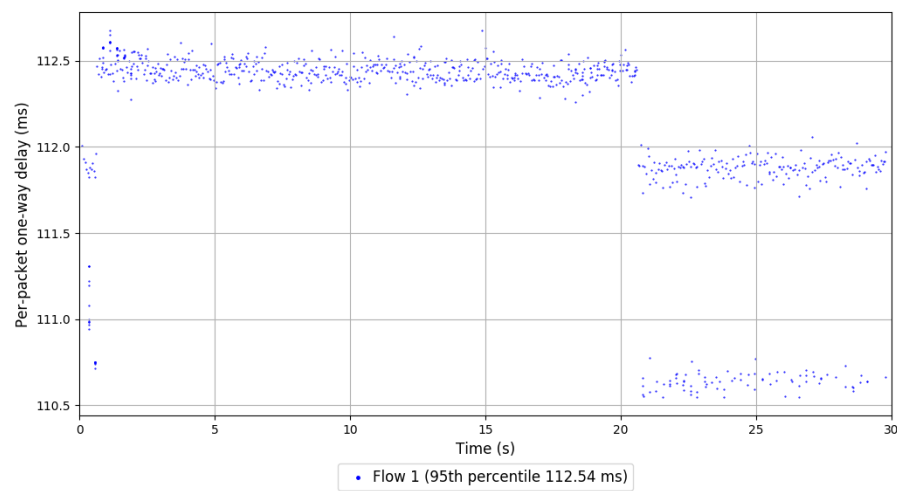
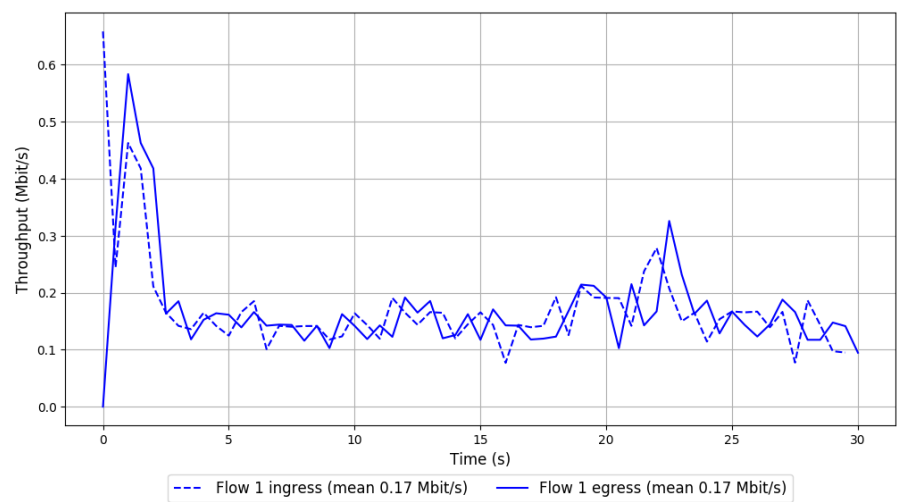
-- Flow 1:

Average throughput: 0.17 Mbit/s

95th percentile per-packet one-way delay: 112.544 ms

Loss rate: 0.24%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-06-18 19:08:45

End at: 2018-06-18 19:09:15

Local clock offset: -0.09 ms

Remote clock offset: 0.017 ms

Below is generated by plot.py at 2018-06-18 23:20:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.23 Mbit/s

95th percentile per-packet one-way delay: 112.435 ms

Loss rate: 0.20%

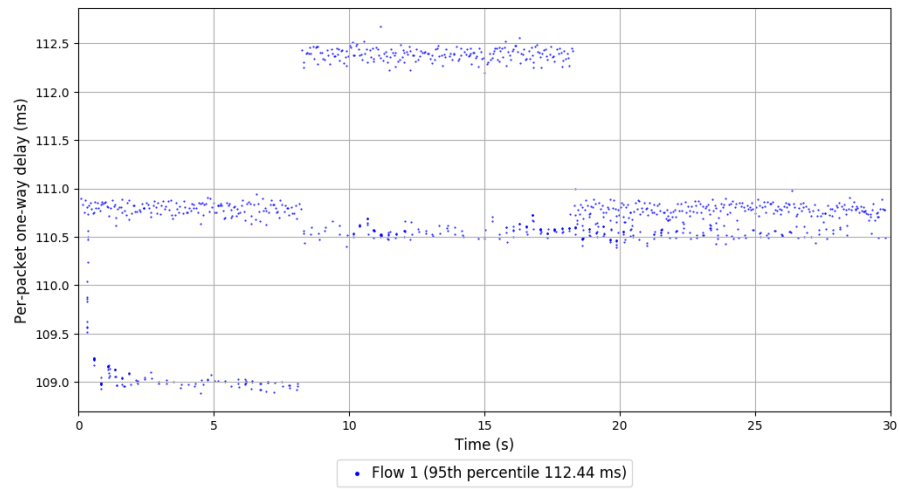
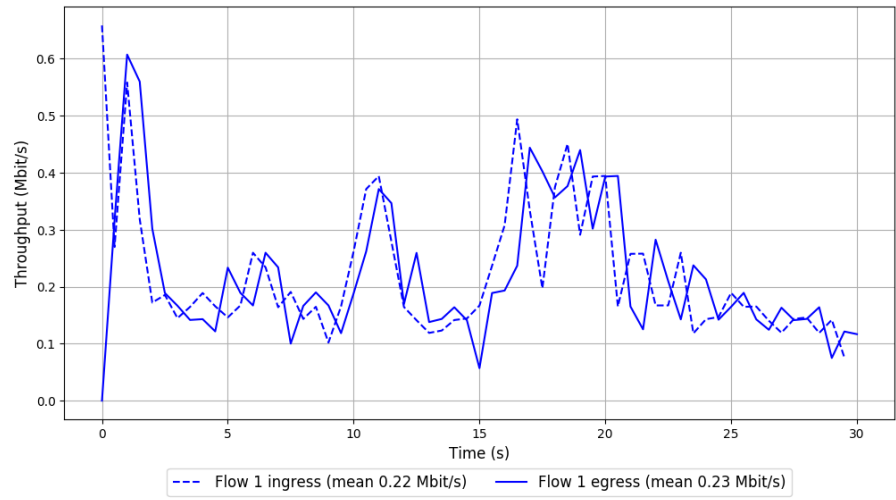
-- Flow 1:

Average throughput: 0.23 Mbit/s

95th percentile per-packet one-way delay: 112.435 ms

Loss rate: 0.20%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-06-18 19:29:24

End at: 2018-06-18 19:29:54

Local clock offset: 0.116 ms

Remote clock offset: 0.426 ms

Below is generated by plot.py at 2018-06-18 23:20:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 112.738 ms

Loss rate: 0.39%

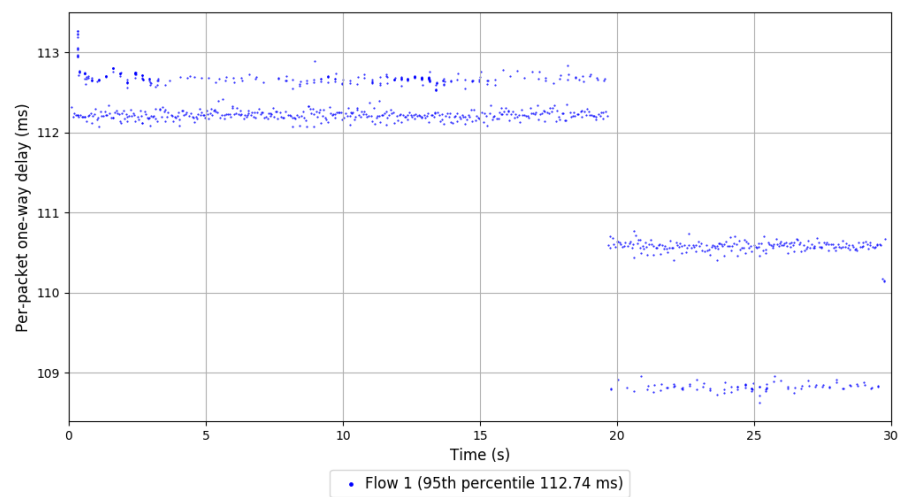
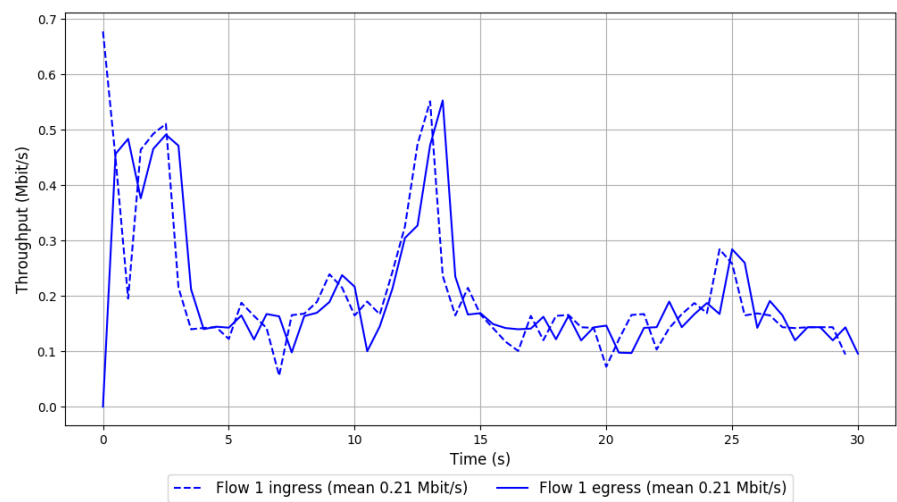
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 112.738 ms

Loss rate: 0.39%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-06-18 19:50:14

End at: 2018-06-18 19:50:44

Local clock offset: -0.057 ms

Remote clock offset: 0.344 ms

Below is generated by plot.py at 2018-06-18 23:20:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.25 Mbit/s

95th percentile per-packet one-way delay: 111.275 ms

Loss rate: 0.15%

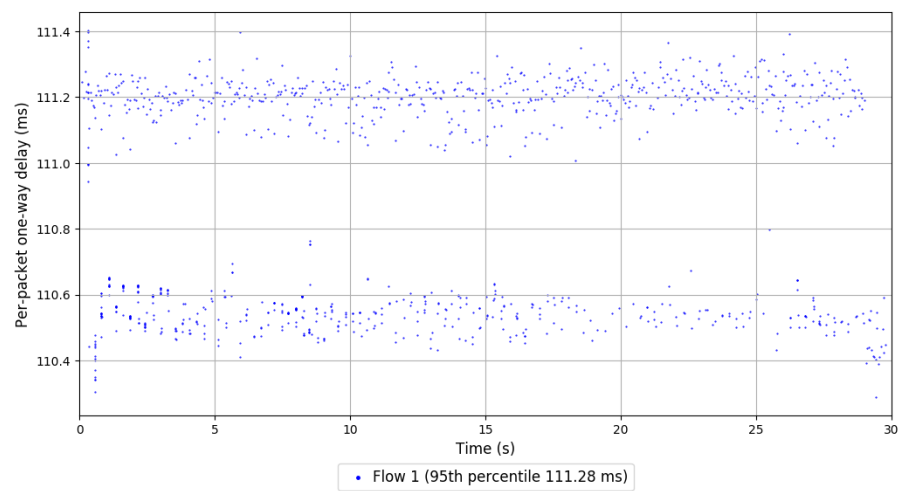
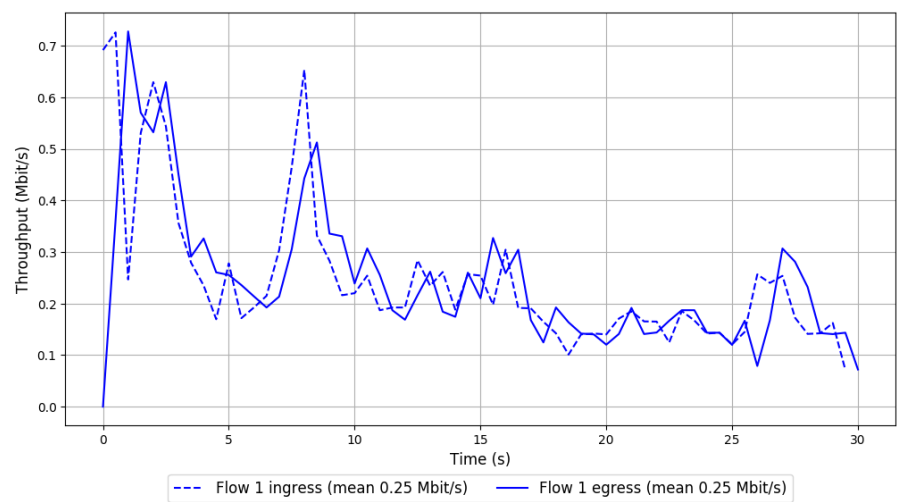
-- Flow 1:

Average throughput: 0.25 Mbit/s

95th percentile per-packet one-way delay: 111.275 ms

Loss rate: 0.15%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-06-18 20:11:17

End at: 2018-06-18 20:11:47

Local clock offset: -0.3 ms

Remote clock offset: -0.07 ms

Below is generated by plot.py at 2018-06-18 23:20:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: 112.773 ms

Loss rate: 0.07%

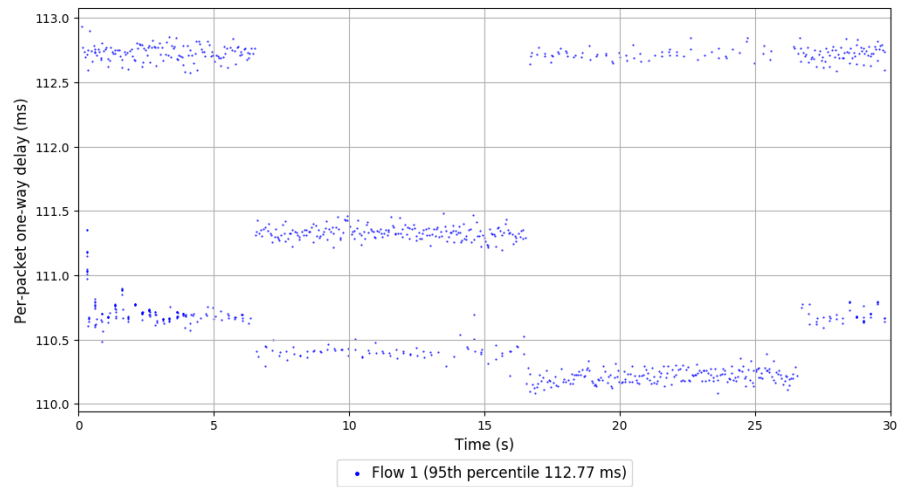
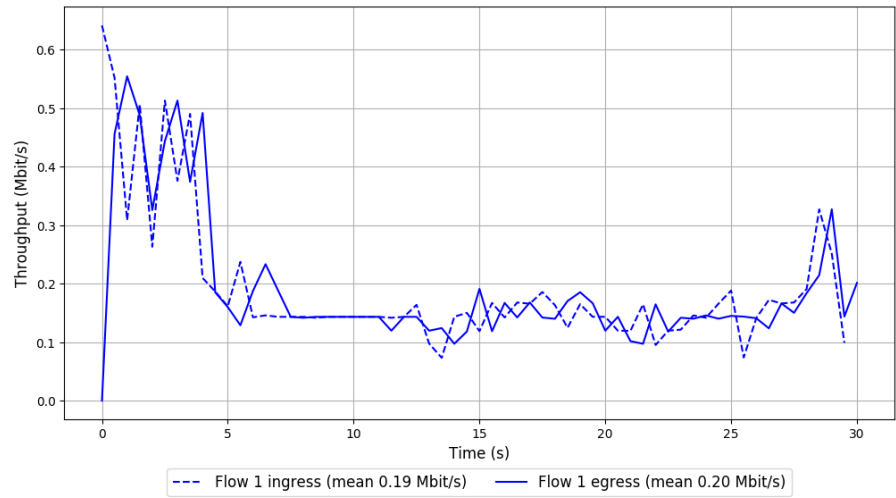
-- Flow 1:

Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: 112.773 ms

Loss rate: 0.07%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-06-18 20:32:03

End at: 2018-06-18 20:32:33

Local clock offset: 1.08 ms

Remote clock offset: 0.059 ms

Below is generated by plot.py at 2018-06-18 23:20:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.24 Mbit/s

95th percentile per-packet one-way delay: 116.028 ms

Loss rate: 0.48%

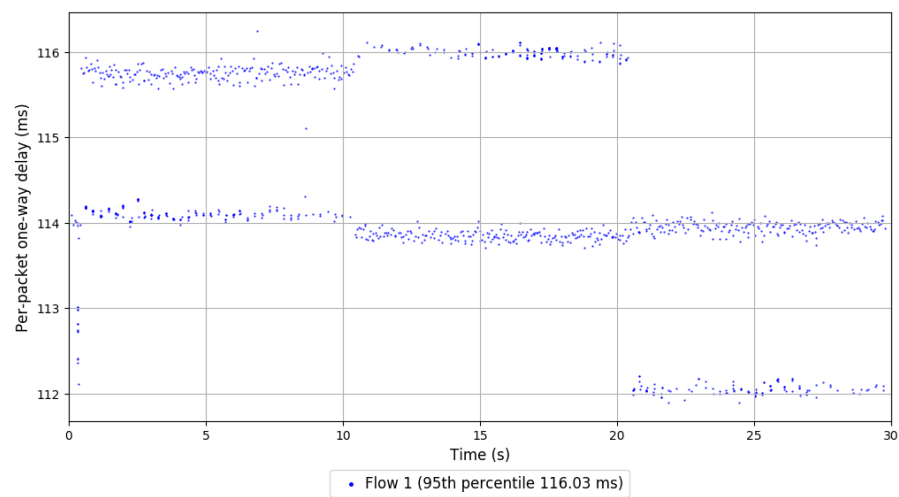
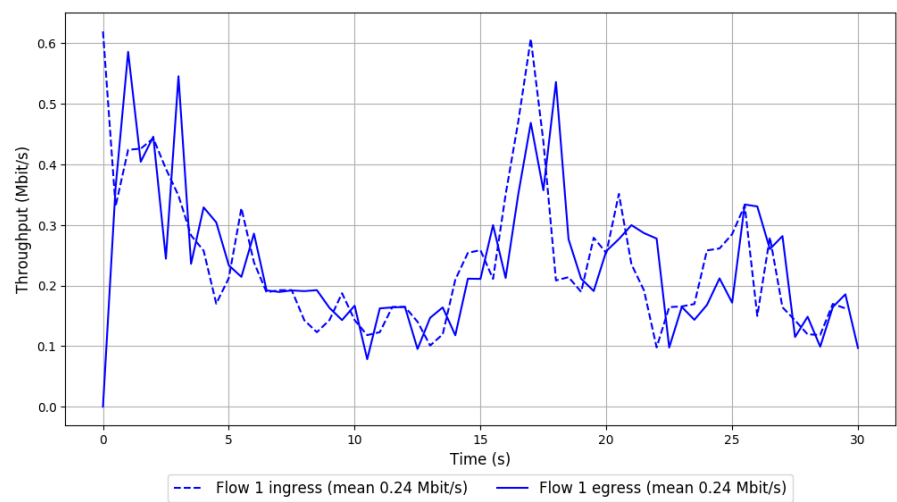
-- Flow 1:

Average throughput: 0.24 Mbit/s

95th percentile per-packet one-way delay: 116.028 ms

Loss rate: 0.48%

Run 6: Report of Sprout — Data Link

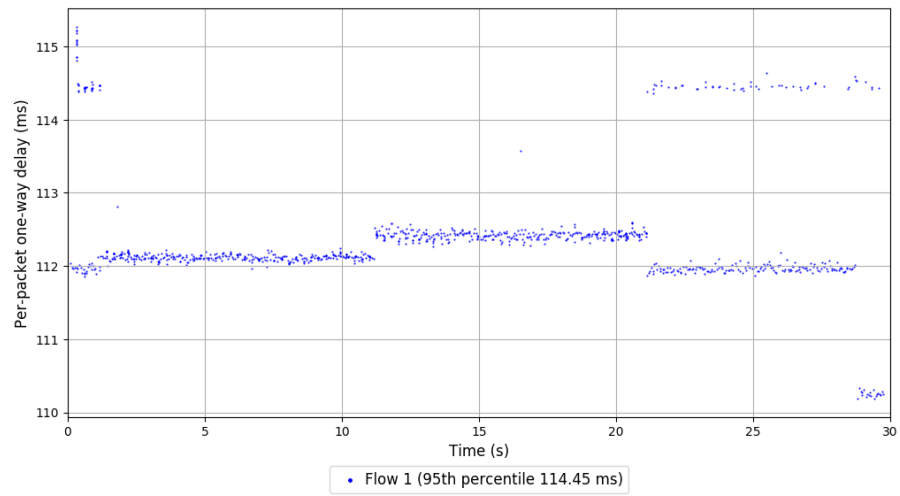
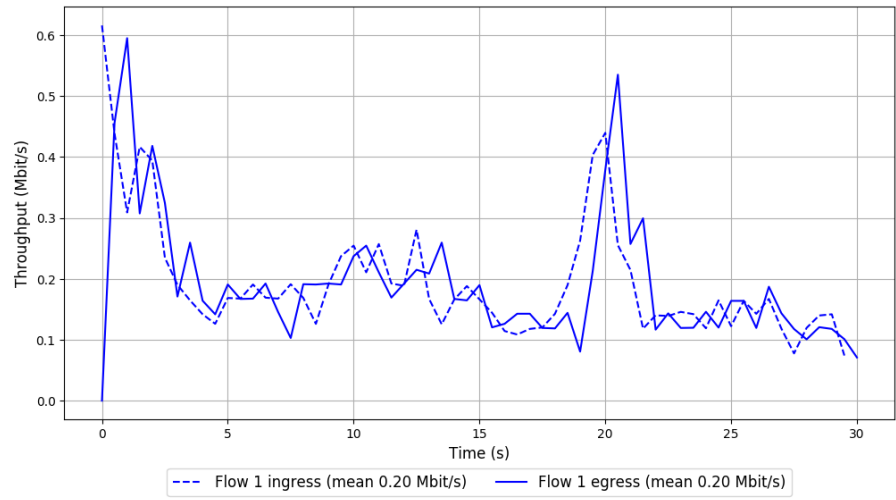


Run 7: Statistics of Sprout

Start at: 2018-06-18 20:52:32
End at: 2018-06-18 20:53:02
Local clock offset: -0.473 ms
Remote clock offset: 0.089 ms

```
# Below is generated by plot.py at 2018-06-18 23:20:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.20 Mbit/s
95th percentile per-packet one-way delay: 114.450 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 0.20 Mbit/s
95th percentile per-packet one-way delay: 114.450 ms
Loss rate: 0.59%
```

Run 7: Report of Sprout — Data Link

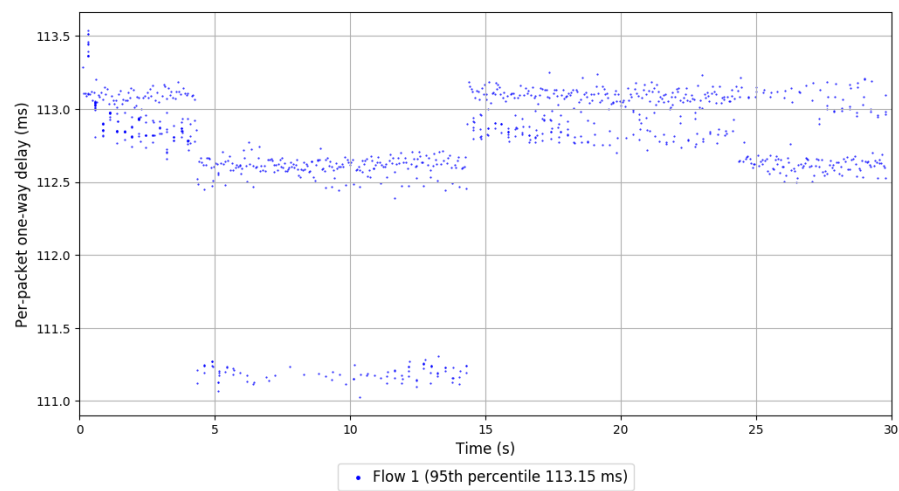
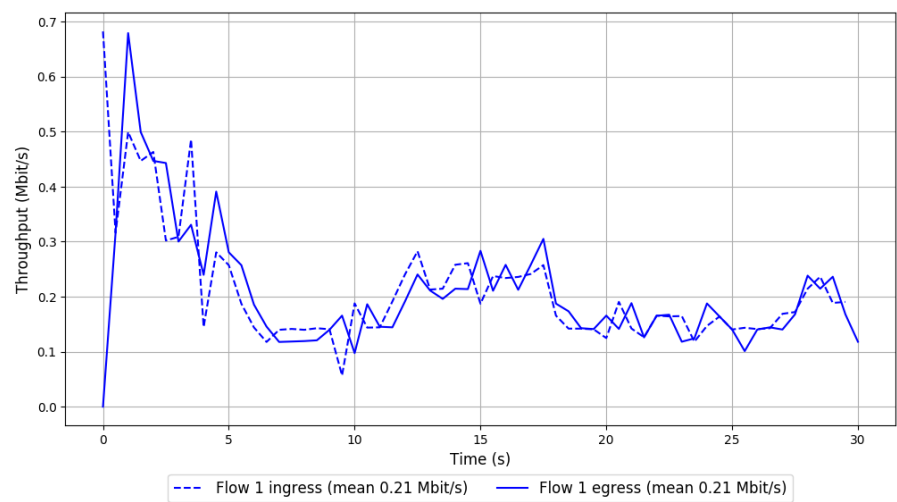


Run 8: Statistics of Sprout

Start at: 2018-06-18 21:13:29
End at: 2018-06-18 21:13:59
Local clock offset: -0.198 ms
Remote clock offset: -0.346 ms

Below is generated by plot.py at 2018-06-18 23:20:17
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 113.149 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 113.149 ms
Loss rate: 0.75%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-06-18 21:34:12

End at: 2018-06-18 21:34:43

Local clock offset: -0.239 ms

Remote clock offset: 0.063 ms

Below is generated by plot.py at 2018-06-18 23:20:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: 110.616 ms

Loss rate: 0.45%

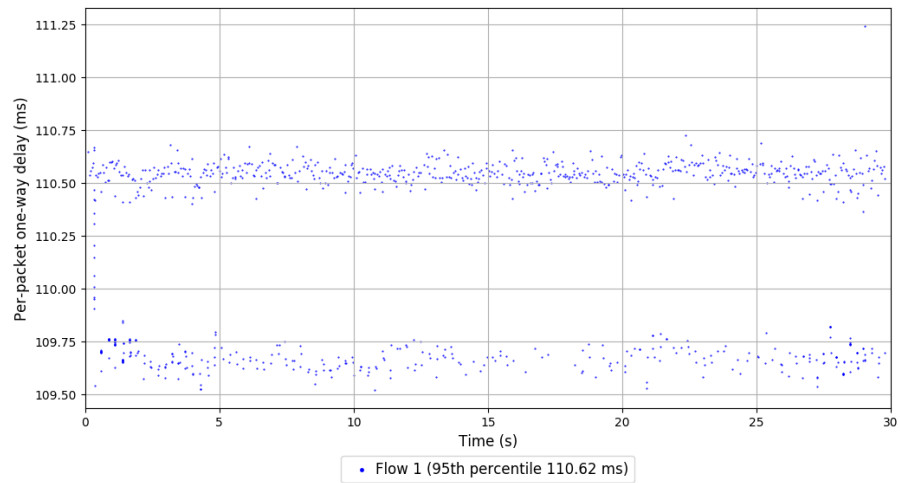
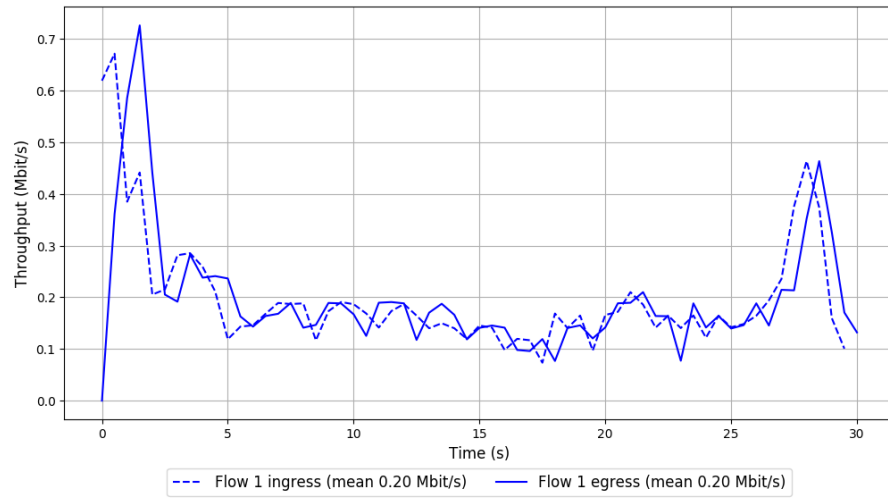
-- Flow 1:

Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: 110.616 ms

Loss rate: 0.45%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-06-18 21:55:36

End at: 2018-06-18 21:56:06

Local clock offset: -0.341 ms

Remote clock offset: 0.457 ms

Below is generated by plot.py at 2018-06-18 23:20:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: 112.048 ms

Loss rate: 0.76%

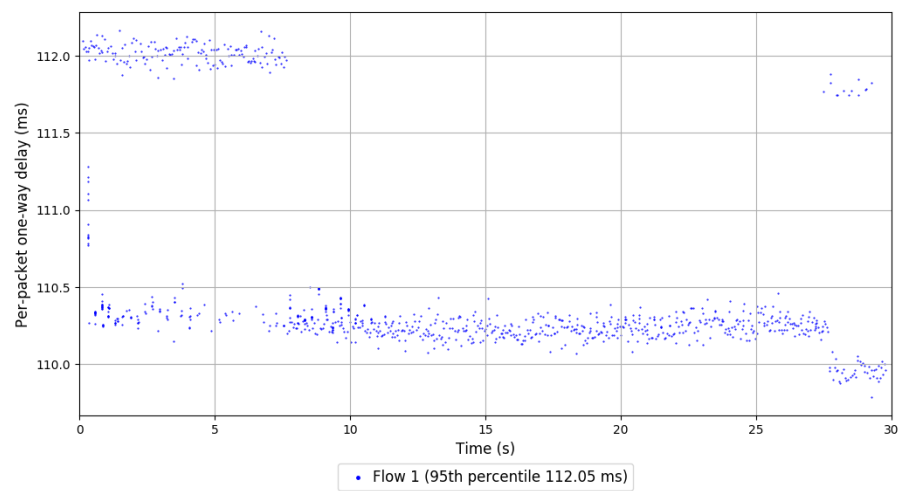
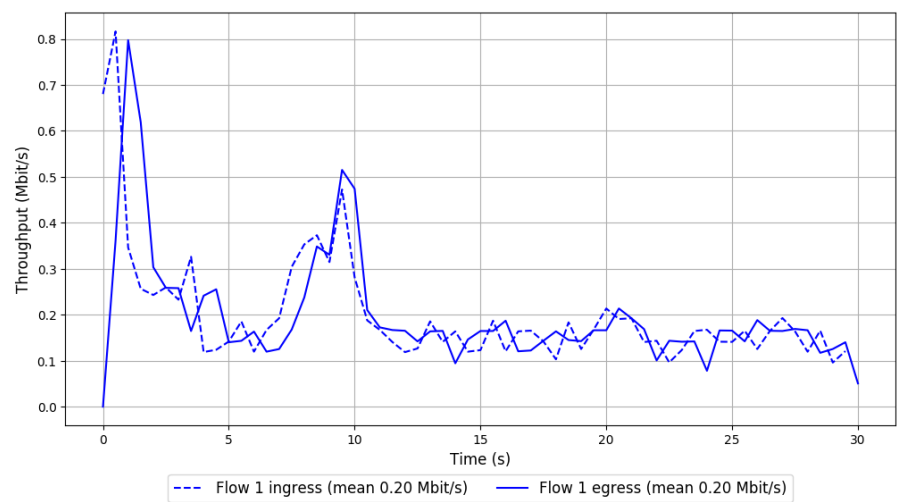
-- Flow 1:

Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: 112.048 ms

Loss rate: 0.76%

Run 10: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

Start at: 2018-06-18 19:04:23

End at: 2018-06-18 19:04:53

Local clock offset: -0.033 ms

Remote clock offset: 0.008 ms

Below is generated by plot.py at 2018-06-18 23:21:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 212.07 Mbit/s

95th percentile per-packet one-way delay: 110.845 ms

Loss rate: 0.78%

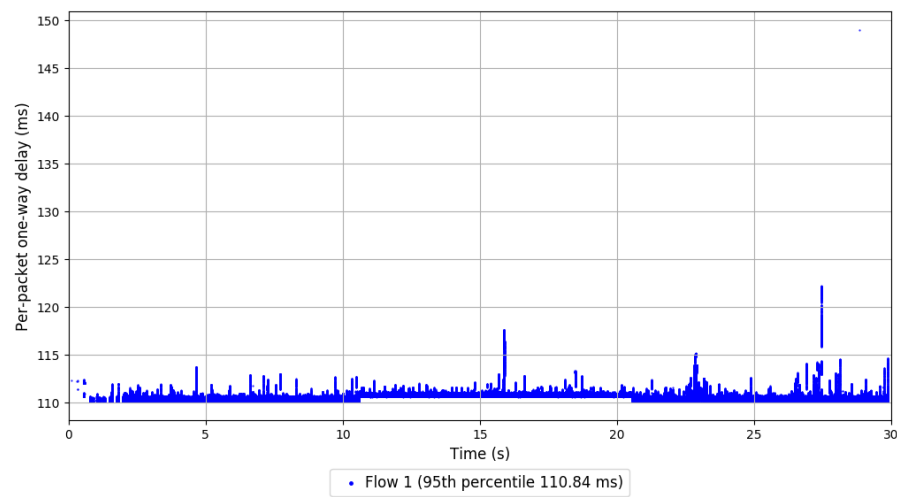
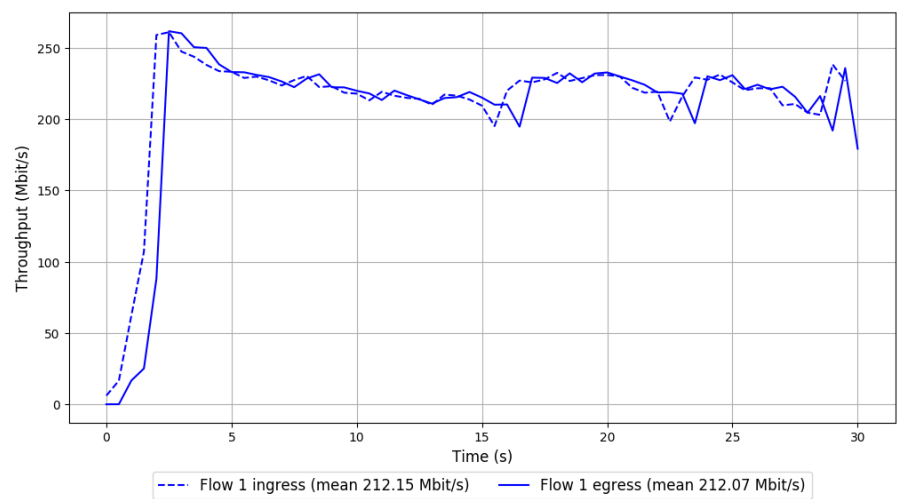
-- Flow 1:

Average throughput: 212.07 Mbit/s

95th percentile per-packet one-way delay: 110.845 ms

Loss rate: 0.78%

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



Run 2: Statistics of TaoVA-100x

Start at: 2018-06-18 19:25:17

End at: 2018-06-18 19:25:47

Local clock offset: -1.328 ms

Remote clock offset: 0.042 ms

Below is generated by plot.py at 2018-06-18 23:21:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.20 Mbit/s

95th percentile per-packet one-way delay: 111.426 ms

Loss rate: 2.46%

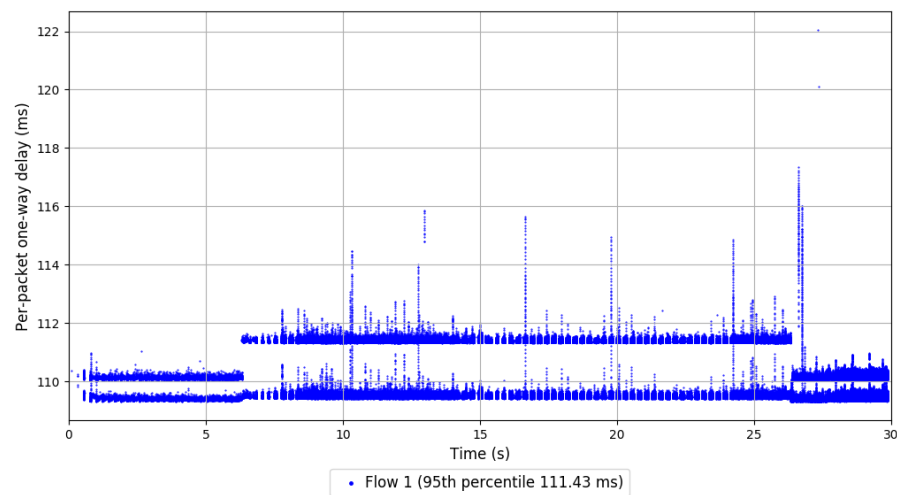
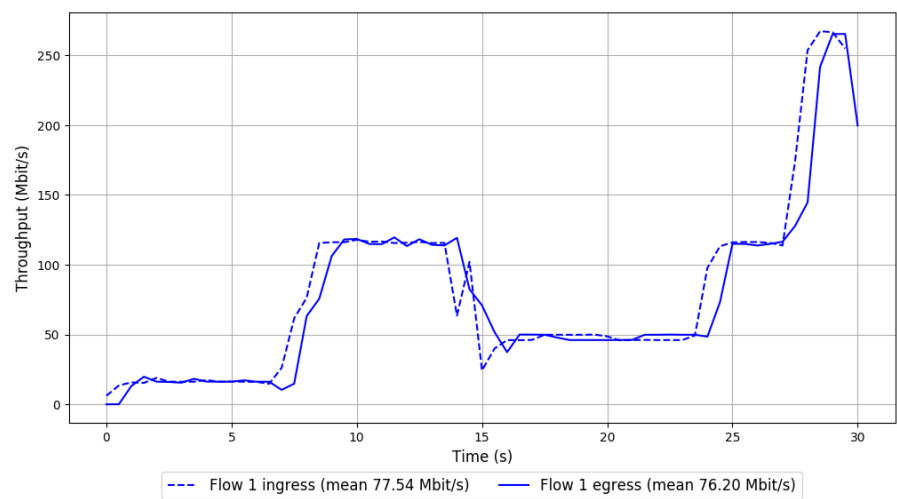
-- Flow 1:

Average throughput: 76.20 Mbit/s

95th percentile per-packet one-way delay: 111.426 ms

Loss rate: 2.46%

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

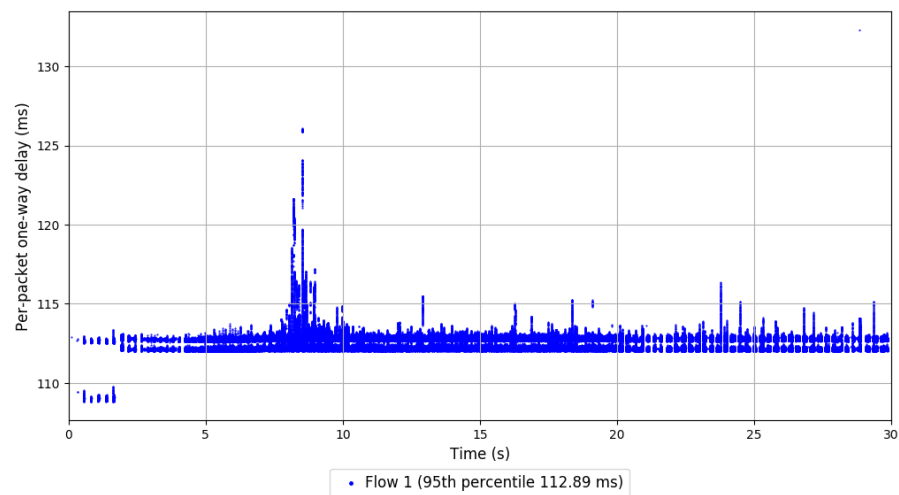
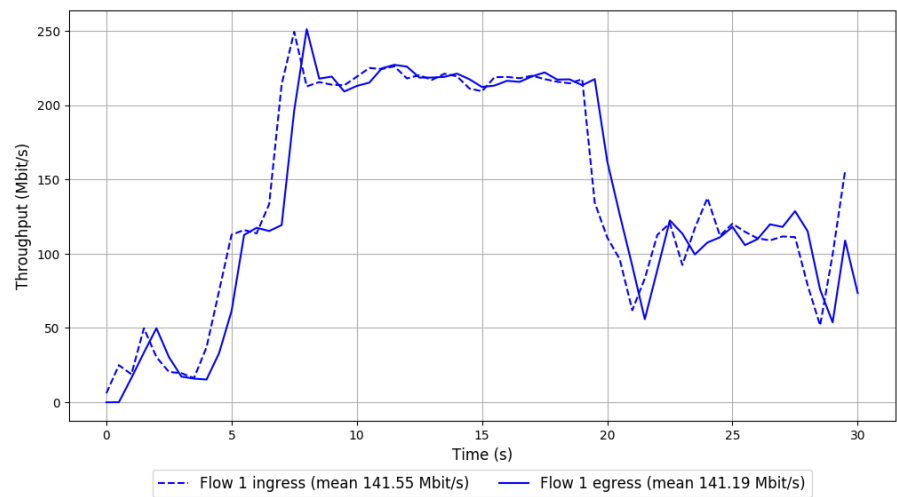


Run 3: Statistics of TaoVA-100x

Start at: 2018-06-18 19:46:01
End at: 2018-06-18 19:46:31
Local clock offset: -0.086 ms
Remote clock offset: -0.056 ms

Below is generated by plot.py at 2018-06-18 23:21:38
Datalink statistics
-- Total of 1 flow:
Average throughput: 141.19 Mbit/s
95th percentile per-packet one-way delay: 112.895 ms
Loss rate: 0.99%
-- Flow 1:
Average throughput: 141.19 Mbit/s
95th percentile per-packet one-way delay: 112.895 ms
Loss rate: 0.99%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-06-18 20:07:07

End at: 2018-06-18 20:07:37

Local clock offset: 0.069 ms

Remote clock offset: -0.421 ms

Below is generated by plot.py at 2018-06-18 23:21:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 125.26 Mbit/s

95th percentile per-packet one-way delay: 111.250 ms

Loss rate: 1.45%

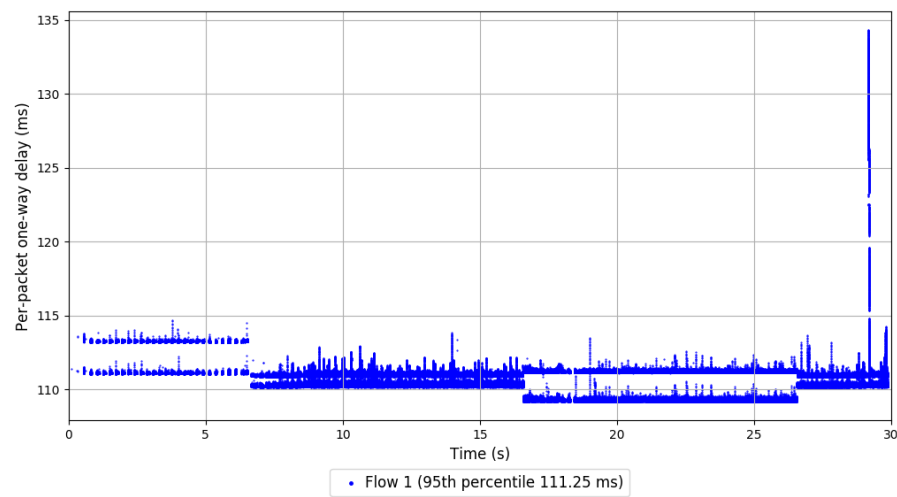
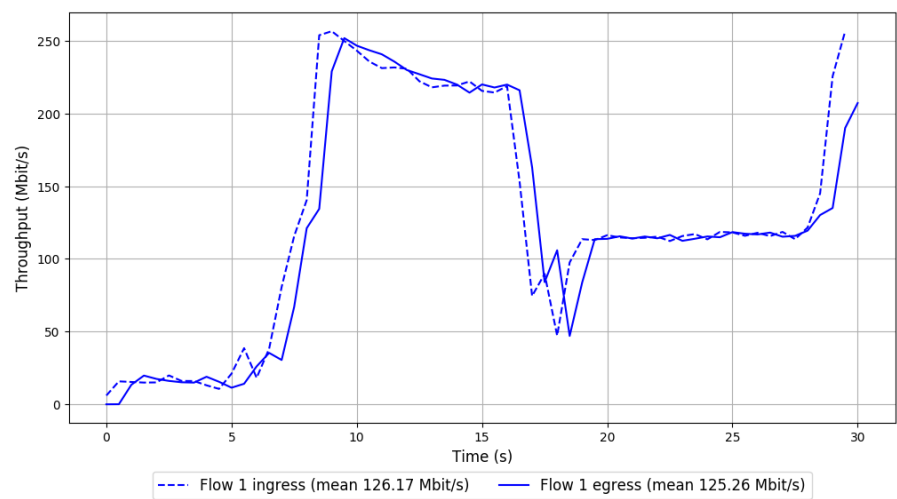
-- Flow 1:

Average throughput: 125.26 Mbit/s

95th percentile per-packet one-way delay: 111.250 ms

Loss rate: 1.45%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-06-18 20:27:58

End at: 2018-06-18 20:28:28

Local clock offset: -0.063 ms

Remote clock offset: 0.091 ms

Below is generated by plot.py at 2018-06-18 23:21:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 22.23 Mbit/s

95th percentile per-packet one-way delay: 112.765 ms

Loss rate: 1.37%

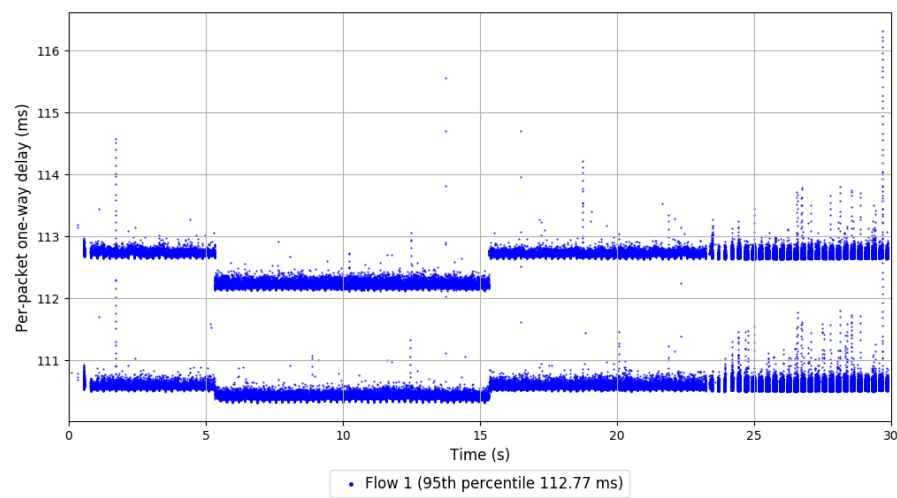
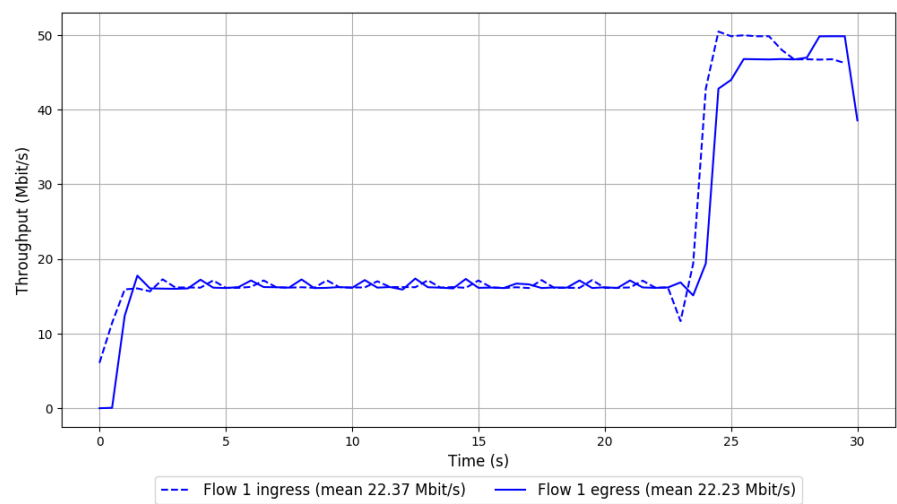
-- Flow 1:

Average throughput: 22.23 Mbit/s

95th percentile per-packet one-way delay: 112.765 ms

Loss rate: 1.37%

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

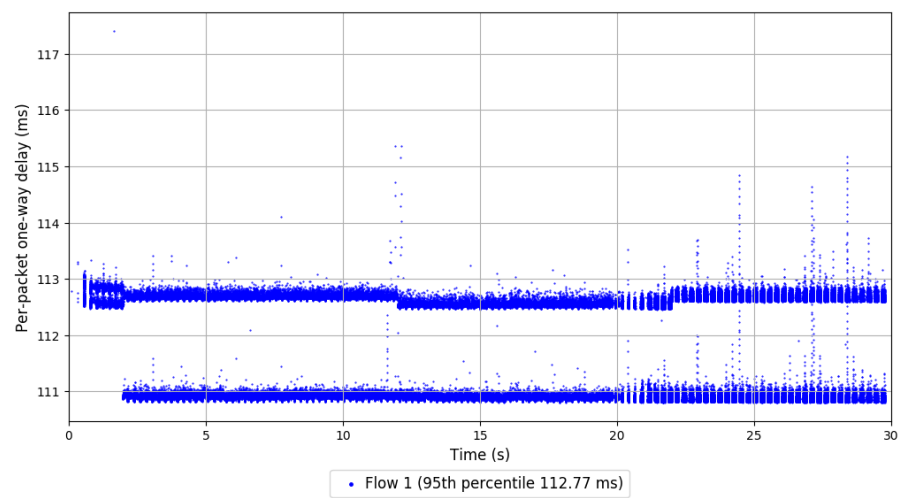
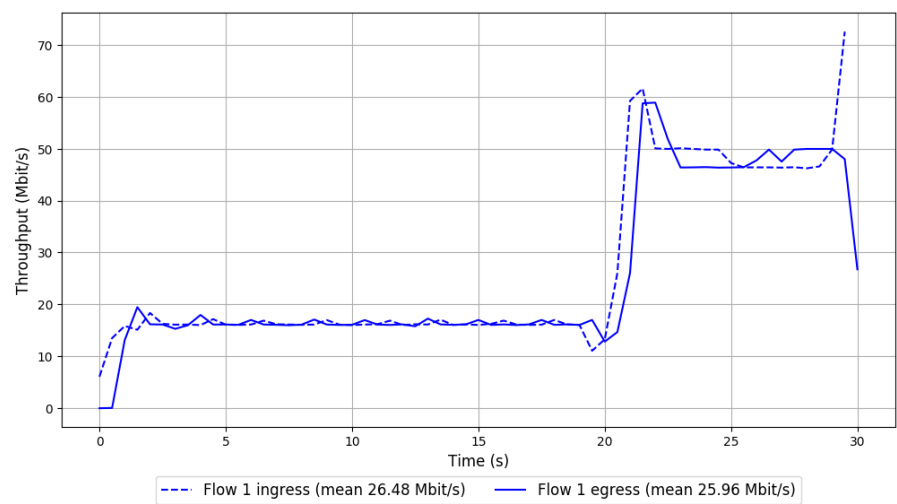


Run 6: Statistics of TaoVA-100x

Start at: 2018-06-18 20:48:41
End at: 2018-06-18 20:49:11
Local clock offset: -0.235 ms
Remote clock offset: -0.272 ms

Below is generated by plot.py at 2018-06-18 23:21:38
Datalink statistics
-- Total of 1 flow:
Average throughput: 25.96 Mbit/s
95th percentile per-packet one-way delay: 112.766 ms
Loss rate: 3.00%
-- Flow 1:
Average throughput: 25.96 Mbit/s
95th percentile per-packet one-way delay: 112.766 ms
Loss rate: 3.00%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-06-18 21:09:09

End at: 2018-06-18 21:09:39

Local clock offset: 0.939 ms

Remote clock offset: 0.021 ms

Below is generated by plot.py at 2018-06-18 23:23:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 188.18 Mbit/s

95th percentile per-packet one-way delay: 113.810 ms

Loss rate: 0.91%

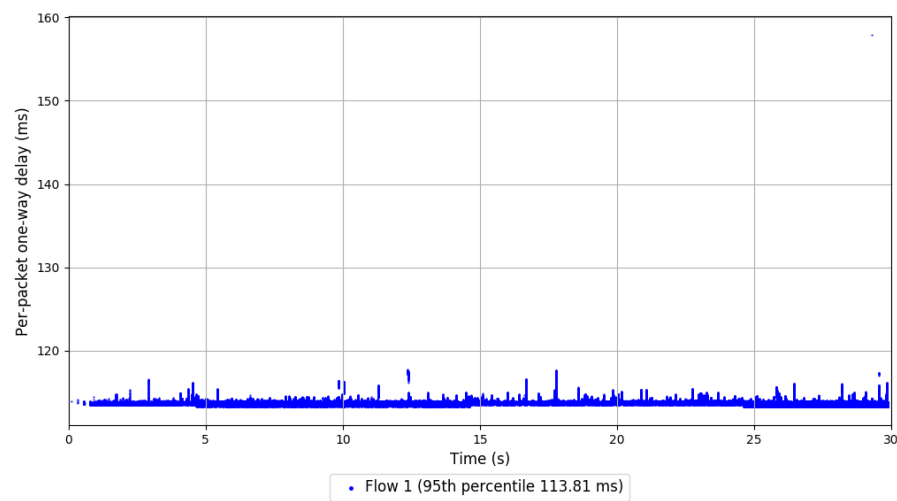
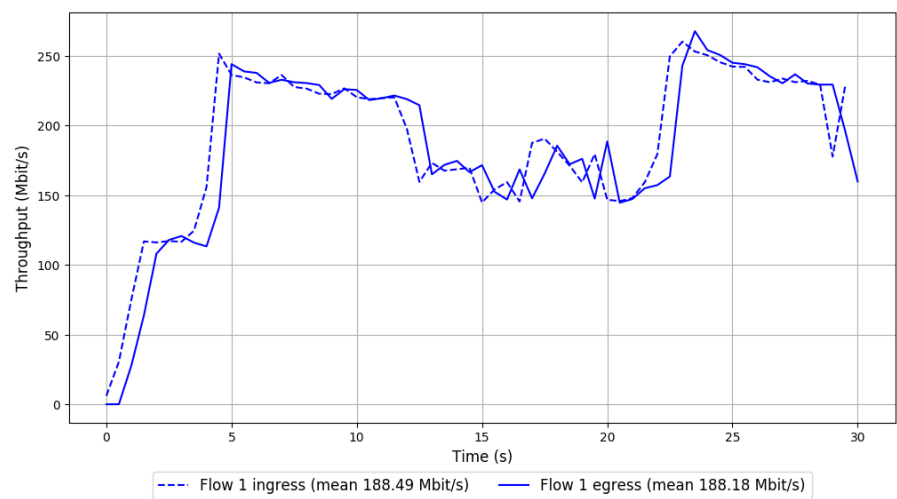
-- Flow 1:

Average throughput: 188.18 Mbit/s

95th percentile per-packet one-way delay: 113.810 ms

Loss rate: 0.91%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-06-18 21:30:09

End at: 2018-06-18 21:30:39

Local clock offset: 0.139 ms

Remote clock offset: 0.063 ms

Below is generated by plot.py at 2018-06-18 23:23:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 29.02 Mbit/s

95th percentile per-packet one-way delay: 115.034 ms

Loss rate: 0.41%

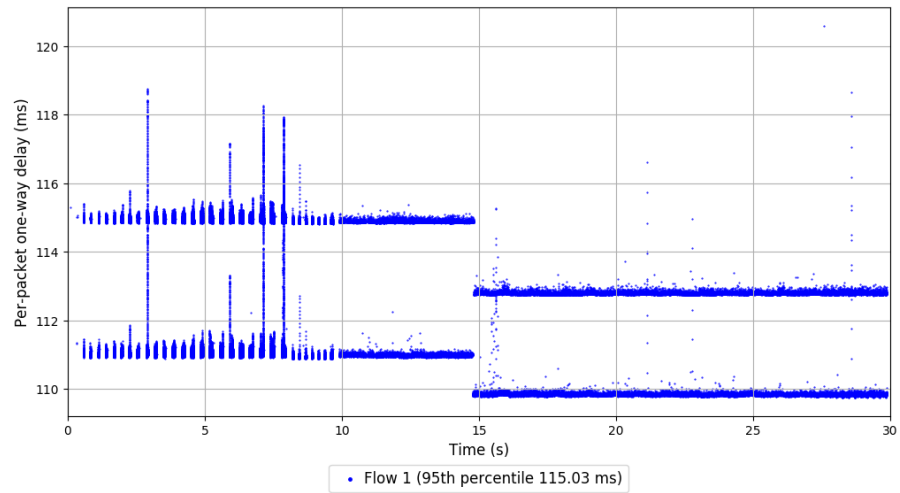
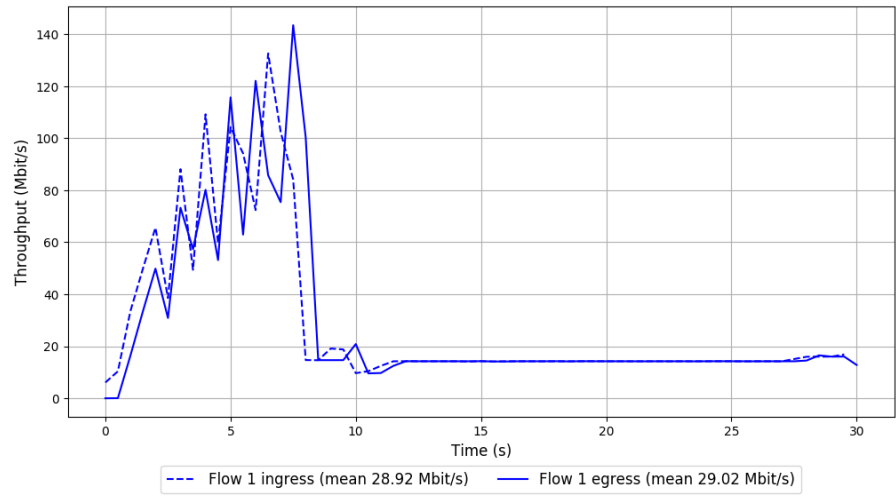
-- Flow 1:

Average throughput: 29.02 Mbit/s

95th percentile per-packet one-way delay: 115.034 ms

Loss rate: 0.41%

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

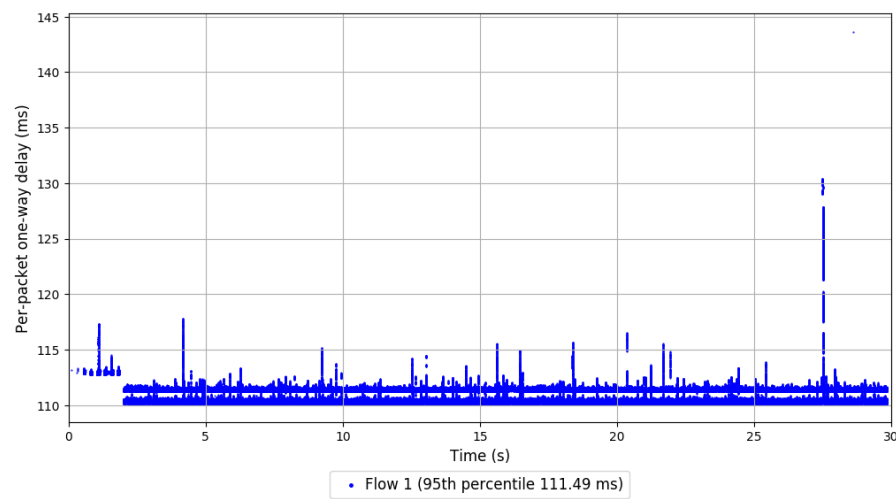
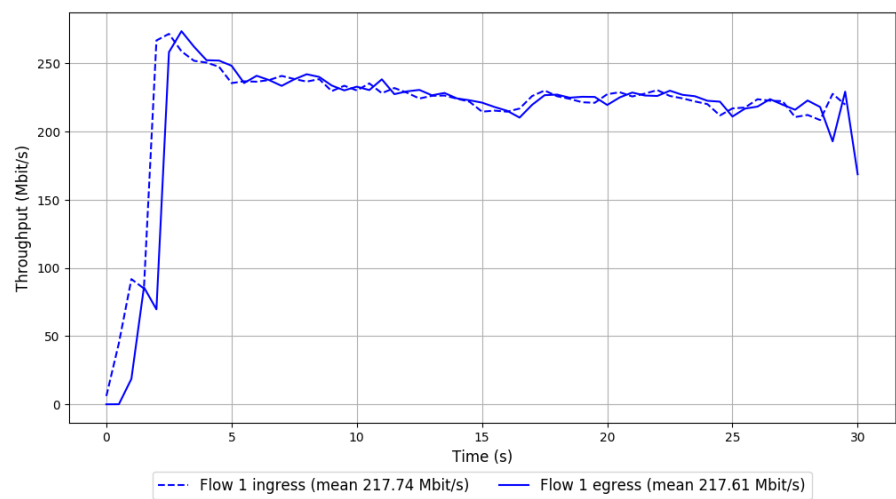


Run 9: Statistics of TaoVA-100x

Start at: 2018-06-18 21:51:11
End at: 2018-06-18 21:51:41
Local clock offset: 0.136 ms
Remote clock offset: -0.304 ms

Below is generated by plot.py at 2018-06-18 23:25:03
Datalink statistics
-- Total of 1 flow:
Average throughput: 217.61 Mbit/s
95th percentile per-packet one-way delay: 111.493 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 217.61 Mbit/s
95th percentile per-packet one-way delay: 111.493 ms
Loss rate: 0.80%

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



Run 10: Statistics of TaoVA-100x

Start at: 2018-06-18 22:12:15

End at: 2018-06-18 22:12:45

Local clock offset: -0.424 ms

Remote clock offset: 0.021 ms

Below is generated by plot.py at 2018-06-18 23:25:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 213.58 Mbit/s

95th percentile per-packet one-way delay: 112.615 ms

Loss rate: 0.76%

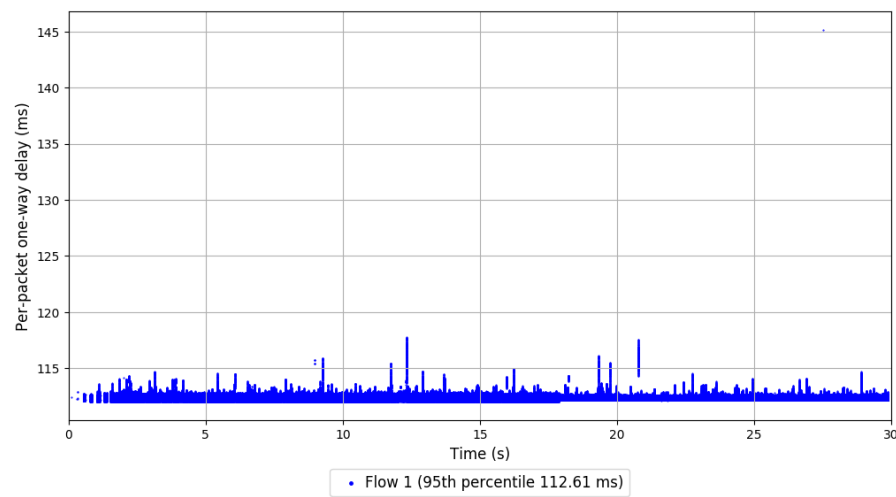
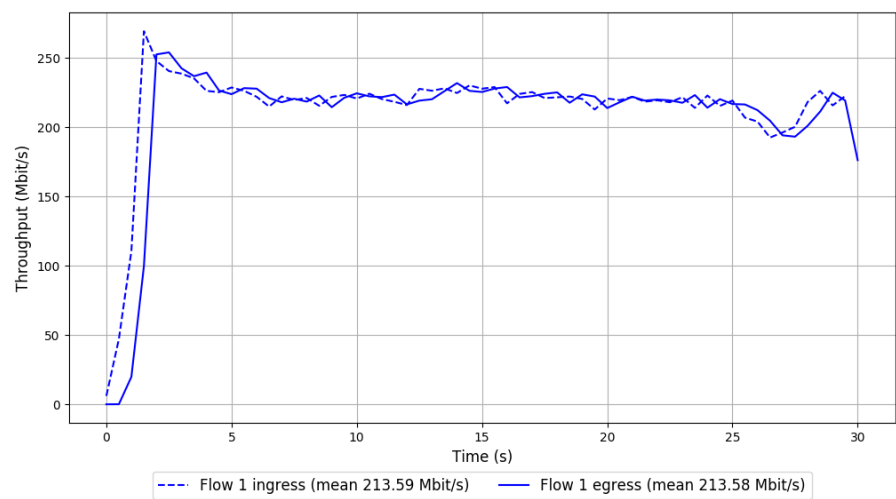
-- Flow 1:

Average throughput: 213.58 Mbit/s

95th percentile per-packet one-way delay: 112.615 ms

Loss rate: 0.76%

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



Run 1: Statistics of TCP Vegas

Start at: 2018-06-18 18:56:03

End at: 2018-06-18 18:56:33

Local clock offset: 0.24 ms

Remote clock offset: 0.021 ms

Below is generated by plot.py at 2018-06-18 23:25:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.98 Mbit/s

95th percentile per-packet one-way delay: 113.771 ms

Loss rate: 0.77%

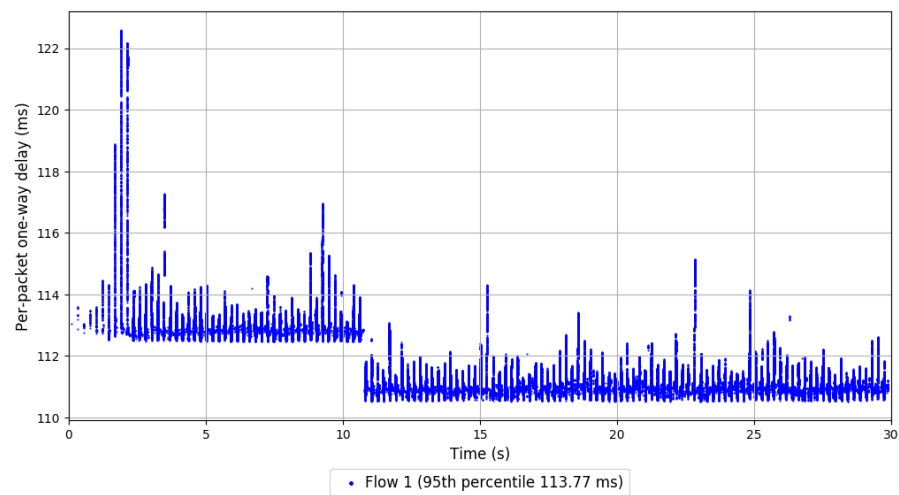
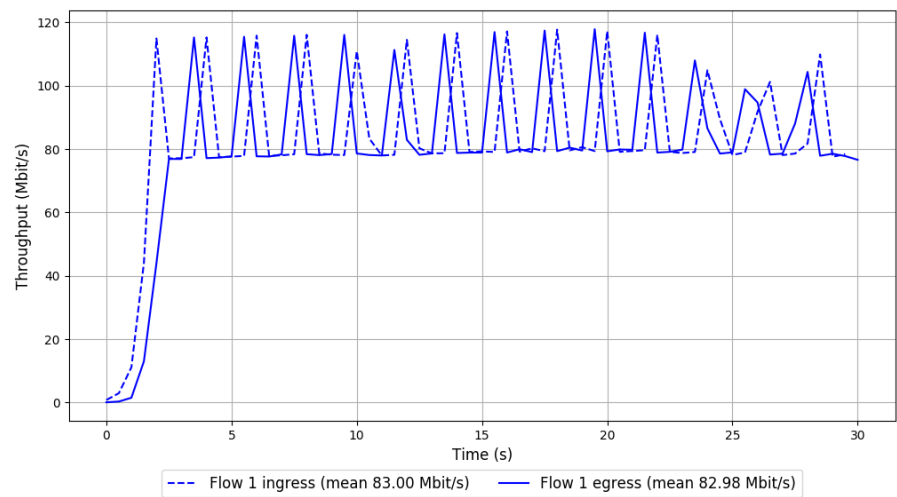
-- Flow 1:

Average throughput: 82.98 Mbit/s

95th percentile per-packet one-way delay: 113.771 ms

Loss rate: 0.77%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-06-18 19:17:07

End at: 2018-06-18 19:17:37

Local clock offset: 0.425 ms

Remote clock offset: 0.037 ms

Below is generated by plot.py at 2018-06-18 23:25:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 102.85 Mbit/s

95th percentile per-packet one-way delay: 117.768 ms

Loss rate: 0.79%

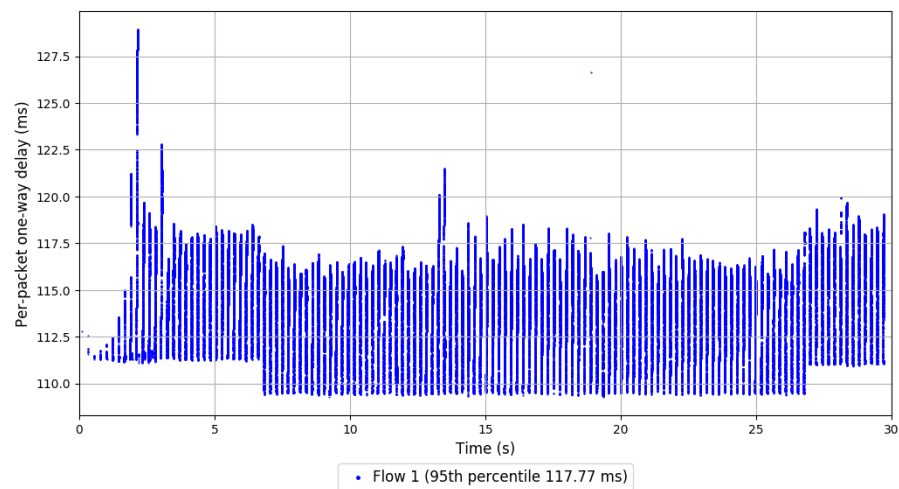
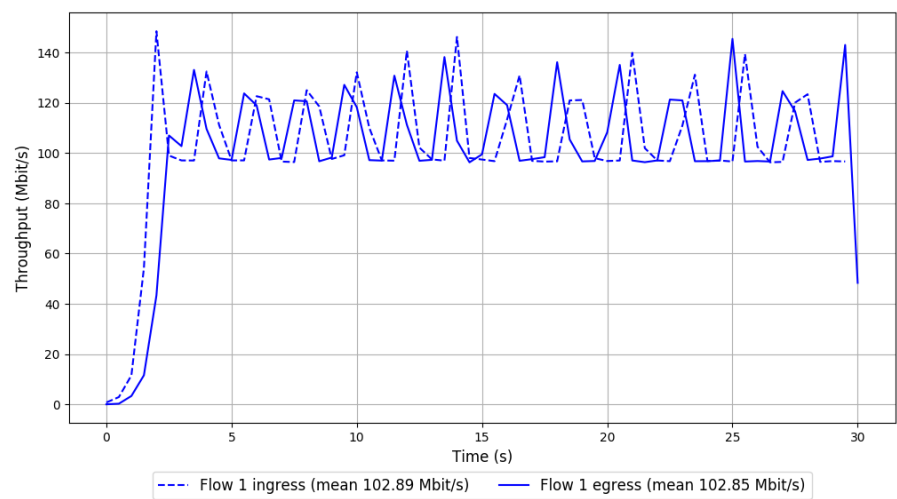
-- Flow 1:

Average throughput: 102.85 Mbit/s

95th percentile per-packet one-way delay: 117.768 ms

Loss rate: 0.79%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-06-18 19:37:53

End at: 2018-06-18 19:38:23

Local clock offset: -0.363 ms

Remote clock offset: 0.061 ms

Below is generated by plot.py at 2018-06-18 23:25:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 102.81 Mbit/s

95th percentile per-packet one-way delay: 119.707 ms

Loss rate: 0.80%

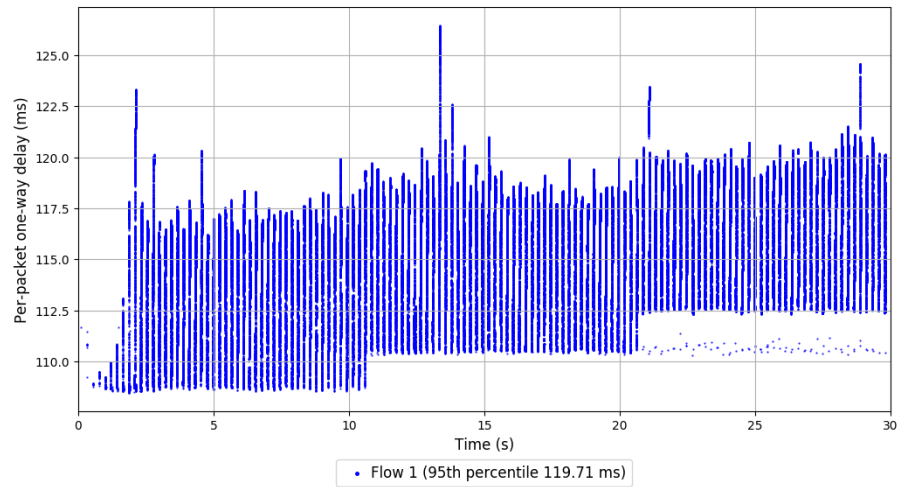
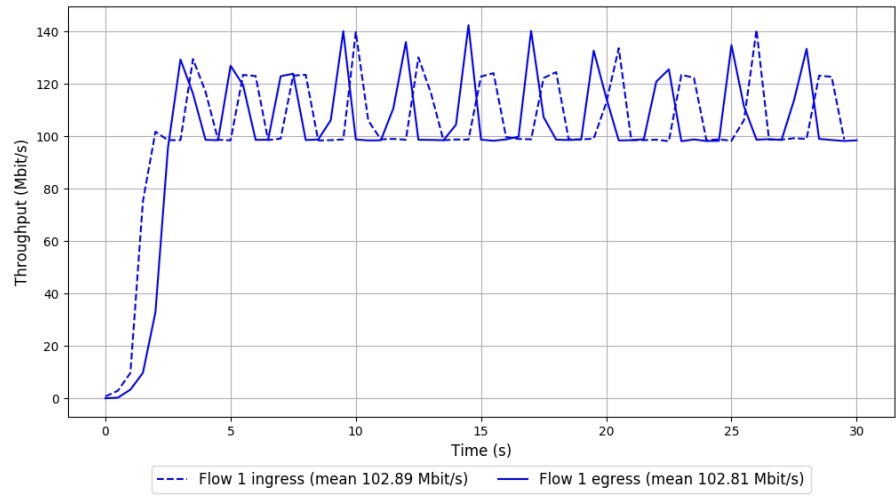
-- Flow 1:

Average throughput: 102.81 Mbit/s

95th percentile per-packet one-way delay: 119.707 ms

Loss rate: 0.80%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-06-18 19:58:42

End at: 2018-06-18 19:59:12

Local clock offset: 0.161 ms

Remote clock offset: 0.293 ms

Below is generated by plot.py at 2018-06-18 23:25:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 17.63 Mbit/s

95th percentile per-packet one-way delay: 111.792 ms

Loss rate: 0.72%

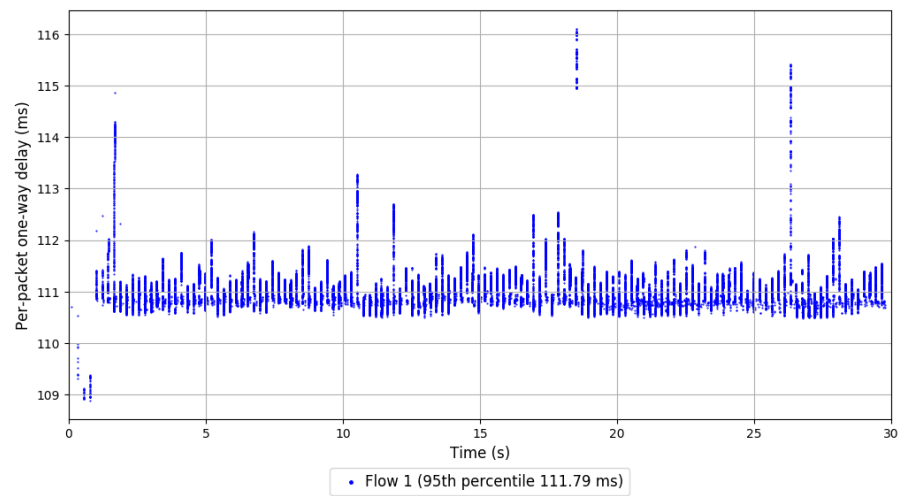
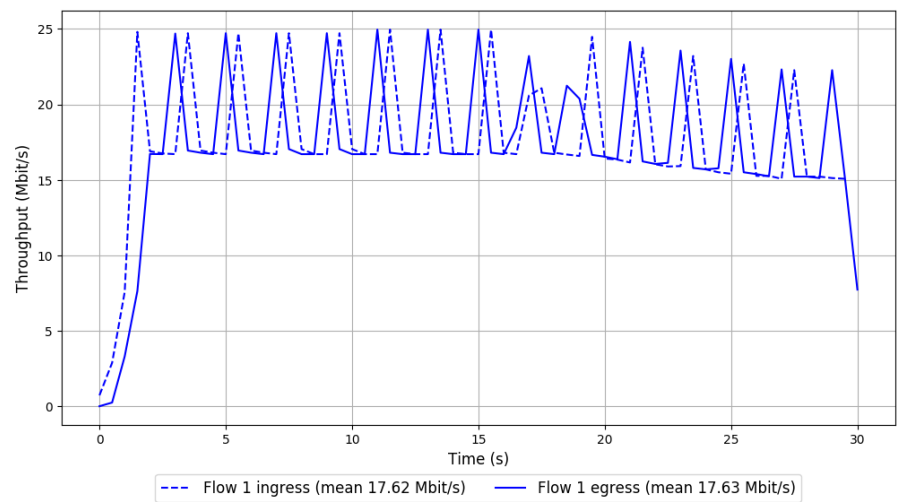
-- Flow 1:

Average throughput: 17.63 Mbit/s

95th percentile per-packet one-way delay: 111.792 ms

Loss rate: 0.72%

Run 4: Report of TCP Vegas — Data Link

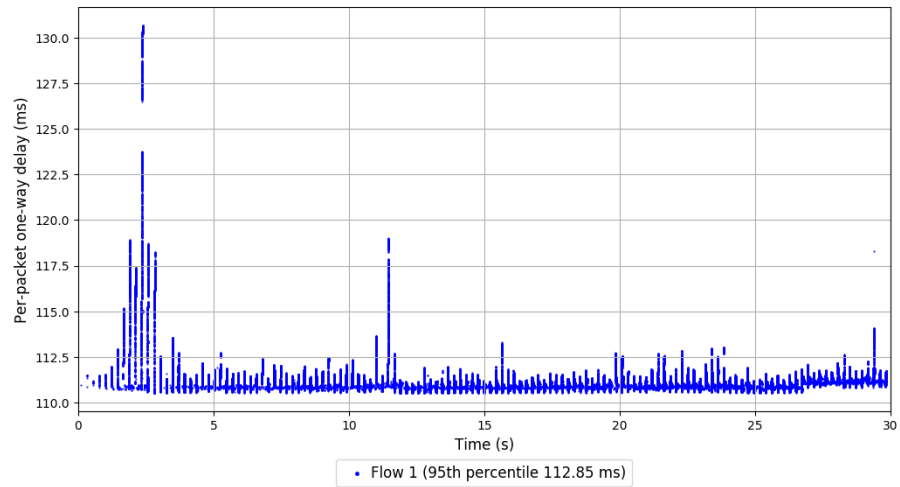
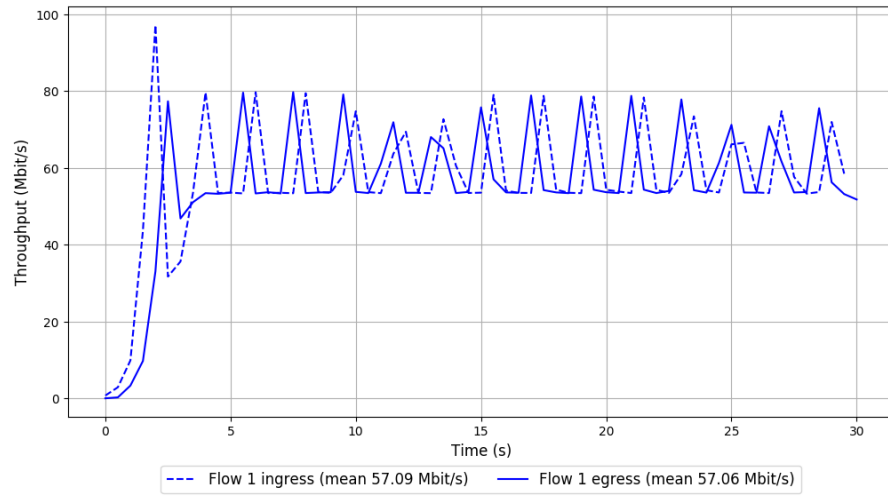


Run 5: Statistics of TCP Vegas

Start at: 2018-06-18 20:19:47
End at: 2018-06-18 20:20:17
Local clock offset: -0.313 ms
Remote clock offset: -0.404 ms

Below is generated by plot.py at 2018-06-18 23:25:09
Datalink statistics
-- Total of 1 flow:
Average throughput: 57.06 Mbit/s
95th percentile per-packet one-way delay: 112.847 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 57.06 Mbit/s
95th percentile per-packet one-way delay: 112.847 ms
Loss rate: 0.77%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-06-18 20:40:25

End at: 2018-06-18 20:40:55

Local clock offset: -0.213 ms

Remote clock offset: 0.456 ms

Below is generated by plot.py at 2018-06-18 23:25:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 22.41 Mbit/s

95th percentile per-packet one-way delay: 114.581 ms

Loss rate: 0.81%

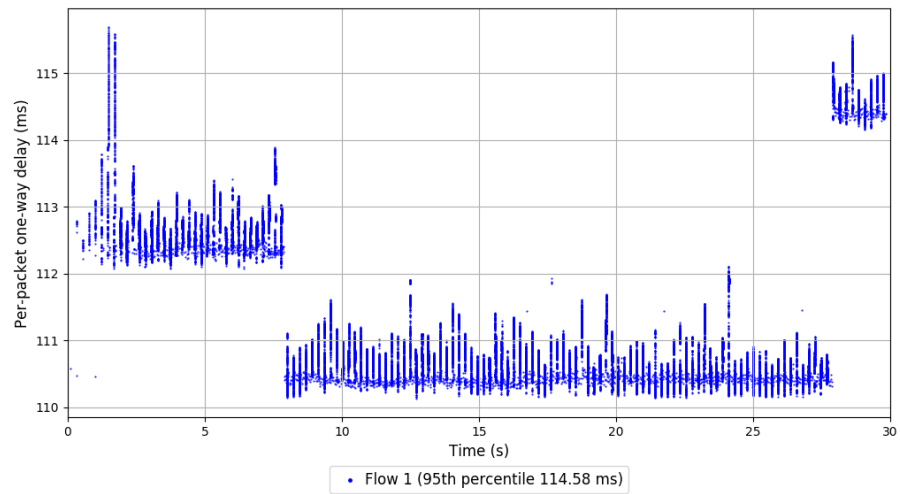
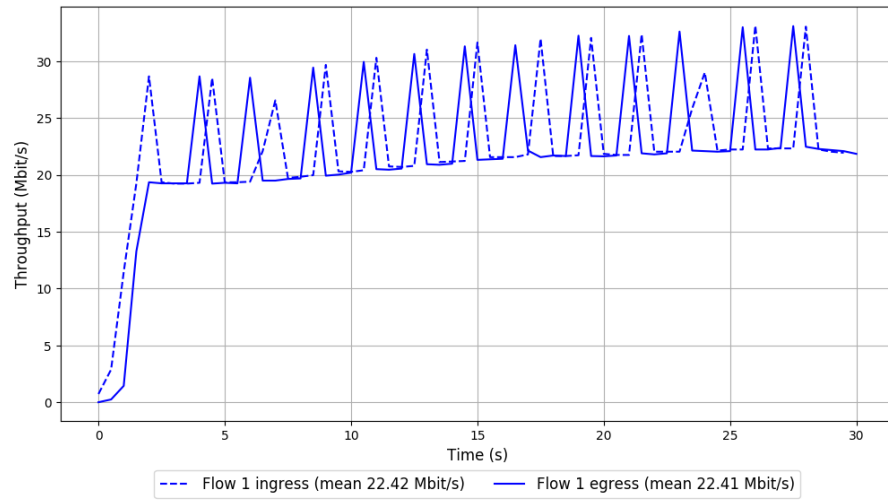
-- Flow 1:

Average throughput: 22.41 Mbit/s

95th percentile per-packet one-way delay: 114.581 ms

Loss rate: 0.81%

Run 6: Report of TCP Vegas — Data Link

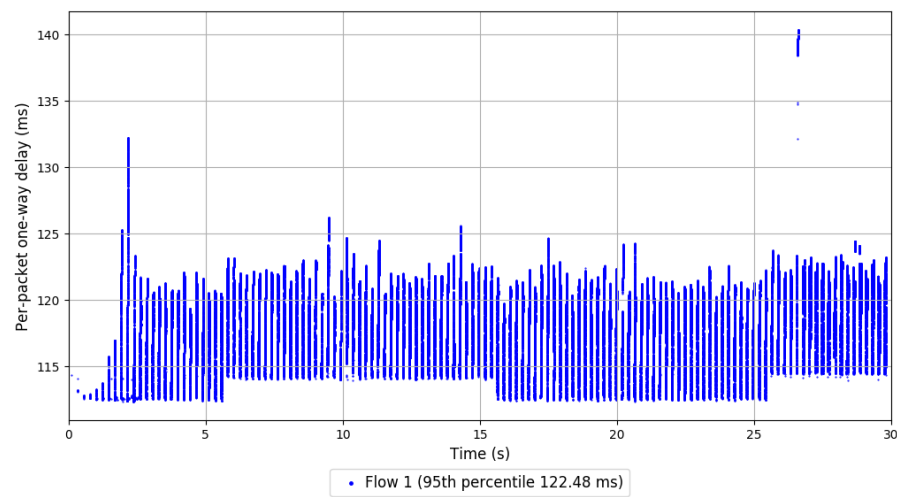
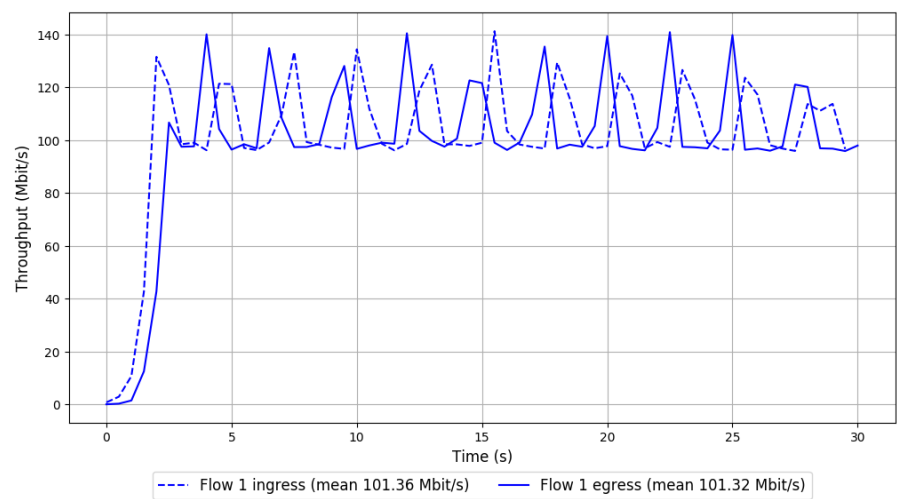


Run 7: Statistics of TCP Vegas

Start at: 2018-06-18 21:00:58
End at: 2018-06-18 21:01:28
Local clock offset: 1.185 ms
Remote clock offset: -0.357 ms

Below is generated by plot.py at 2018-06-18 23:25:09
Datalink statistics
-- Total of 1 flow:
Average throughput: 101.32 Mbit/s
95th percentile per-packet one-way delay: 122.480 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 101.32 Mbit/s
95th percentile per-packet one-way delay: 122.480 ms
Loss rate: 0.79%

Run 7: Report of TCP Vegas — Data Link

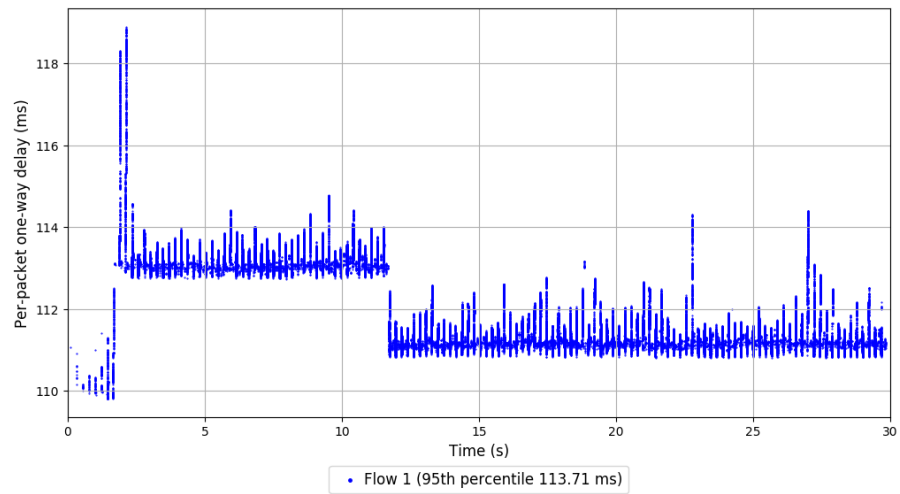
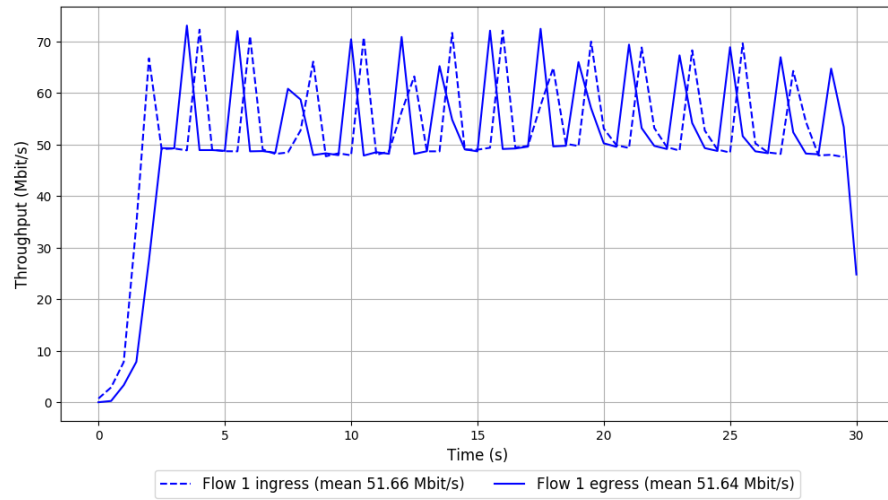


Run 8: Statistics of TCP Vegas

Start at: 2018-06-18 21:21:52
End at: 2018-06-18 21:22:22
Local clock offset: -0.326 ms
Remote clock offset: -0.373 ms

Below is generated by plot.py at 2018-06-18 23:25:09
Datalink statistics
-- Total of 1 flow:
Average throughput: 51.64 Mbit/s
95th percentile per-packet one-way delay: 113.710 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 51.64 Mbit/s
95th percentile per-packet one-way delay: 113.710 ms
Loss rate: 0.76%

Run 8: Report of TCP Vegas — Data Link

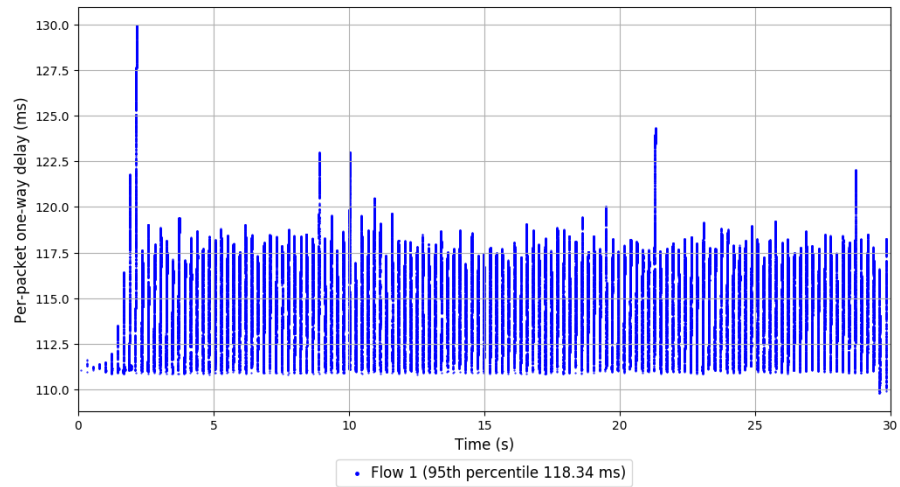
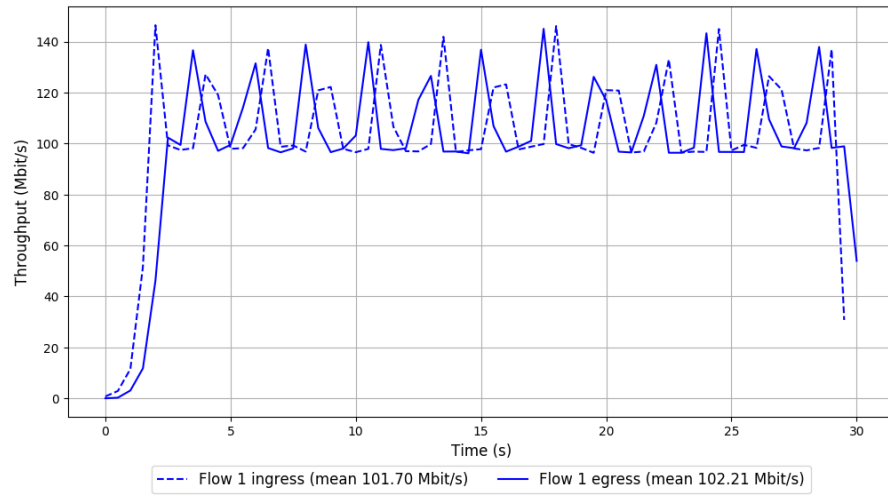


Run 9: Statistics of TCP Vegas

Start at: 2018-06-18 21:42:44
End at: 2018-06-18 21:43:14
Local clock offset: -0.313 ms
Remote clock offset: -0.309 ms

Below is generated by plot.py at 2018-06-18 23:25:09
Datalink statistics
-- Total of 1 flow:
Average throughput: 102.21 Mbit/s
95th percentile per-packet one-way delay: 118.343 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 102.21 Mbit/s
95th percentile per-packet one-way delay: 118.343 ms
Loss rate: 0.24%

Run 9: Report of TCP Vegas — Data Link

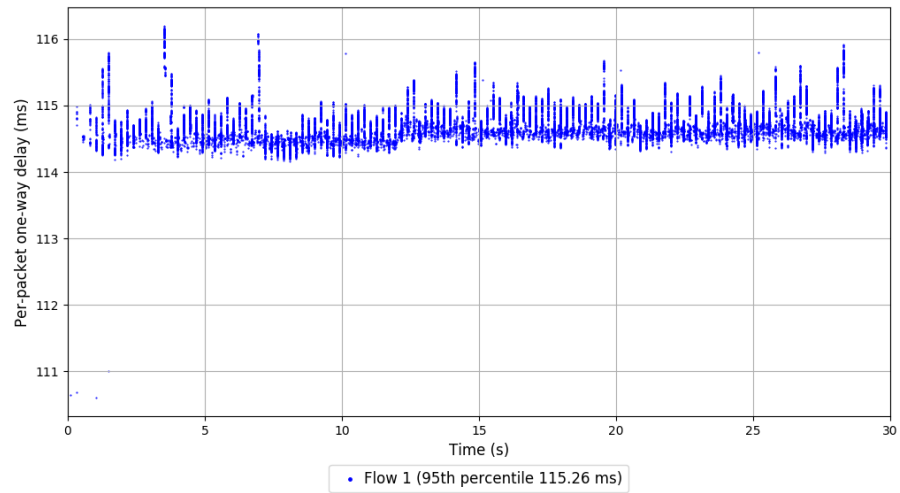
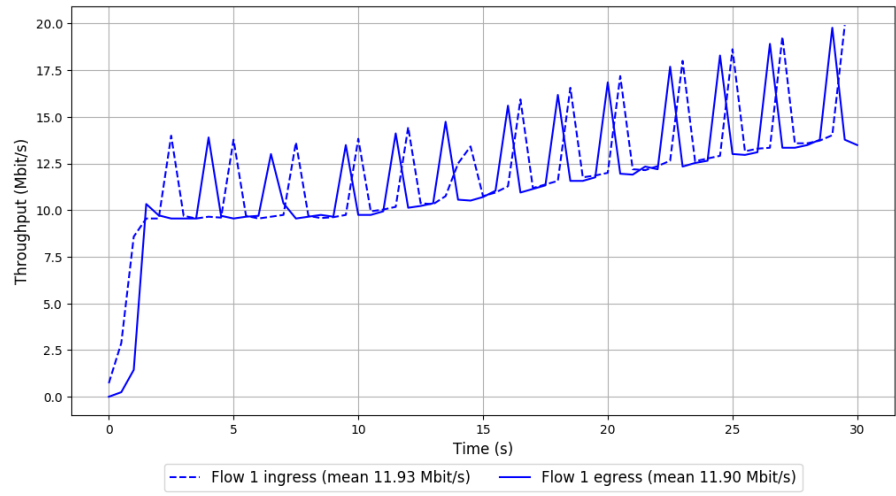


Run 10: Statistics of TCP Vegas

Start at: 2018-06-18 22:03:51
End at: 2018-06-18 22:04:21
Local clock offset: 1.114 ms
Remote clock offset: -0.326 ms

Below is generated by plot.py at 2018-06-18 23:25:09
Datalink statistics
-- Total of 1 flow:
Average throughput: 11.90 Mbit/s
95th percentile per-packet one-way delay: 115.256 ms
Loss rate: 0.97%
-- Flow 1:
Average throughput: 11.90 Mbit/s
95th percentile per-packet one-way delay: 115.256 ms
Loss rate: 0.97%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-06-18 19:02:59

End at: 2018-06-18 19:03:29

Local clock offset: -0.12 ms

Remote clock offset: 0.01 ms

Below is generated by plot.py at 2018-06-18 23:25:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 234.09 Mbit/s

95th percentile per-packet one-way delay: 229.185 ms

Loss rate: 0.40%

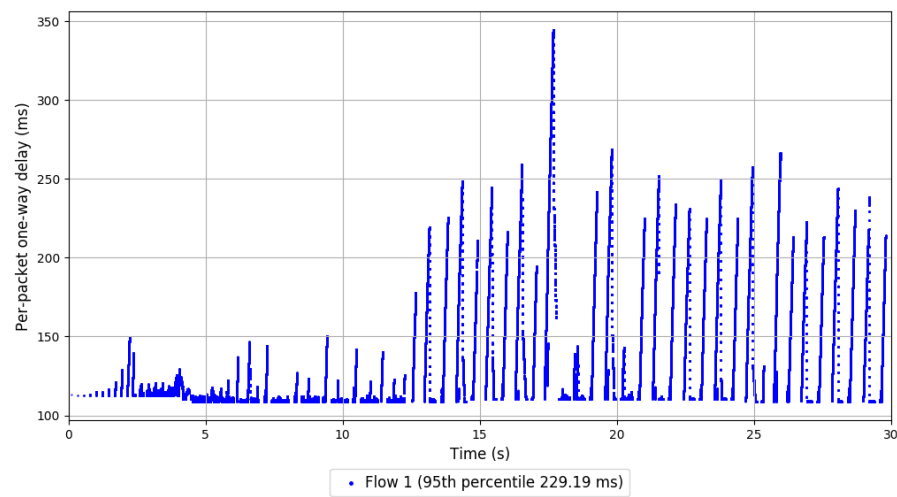
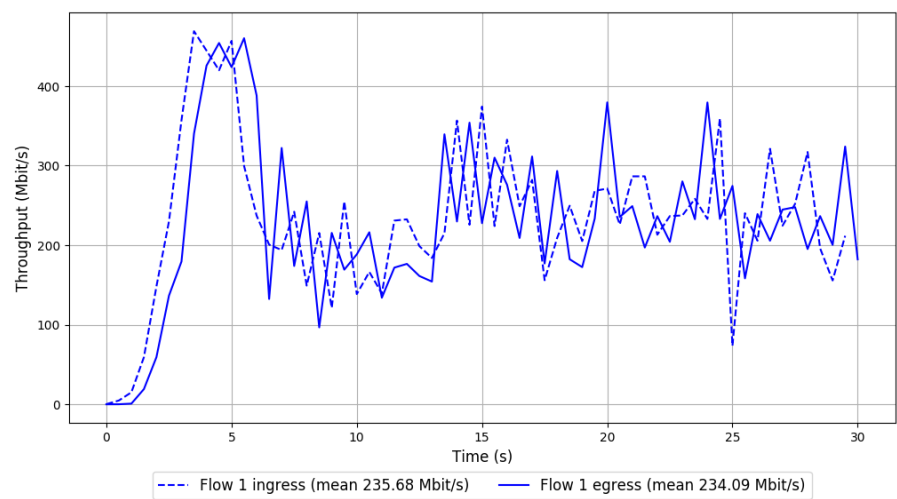
-- Flow 1:

Average throughput: 234.09 Mbit/s

95th percentile per-packet one-way delay: 229.185 ms

Loss rate: 0.40%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-06-18 19:23:58

End at: 2018-06-18 19:24:28

Local clock offset: 0.024 ms

Remote clock offset: 0.058 ms

Below is generated by plot.py at 2018-06-18 23:25:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 154.08 Mbit/s

95th percentile per-packet one-way delay: 162.199 ms

Loss rate: 0.75%

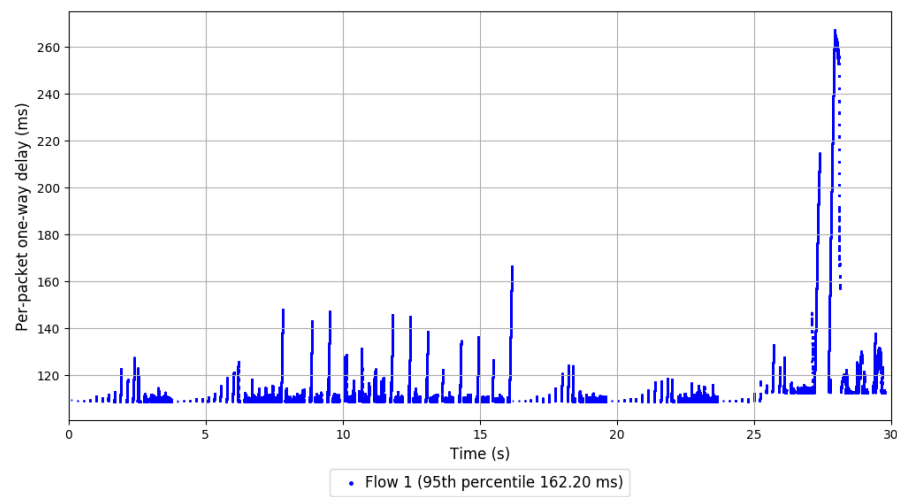
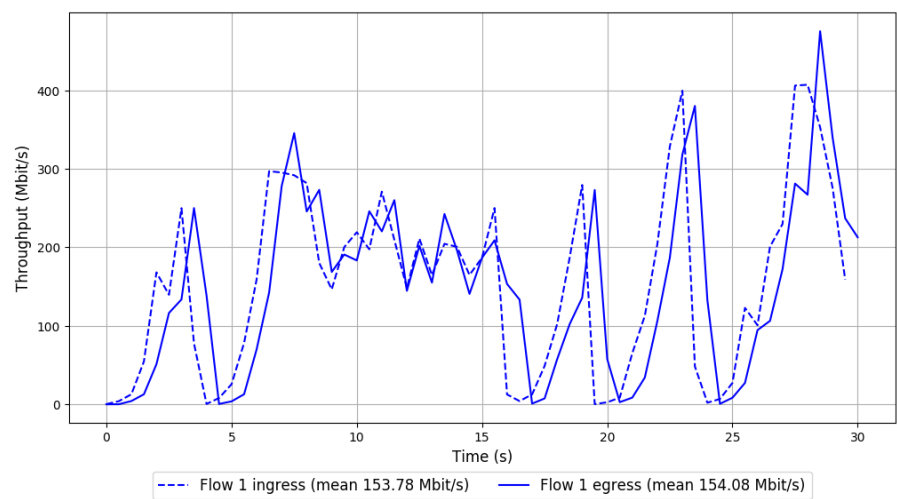
-- Flow 1:

Average throughput: 154.08 Mbit/s

95th percentile per-packet one-way delay: 162.199 ms

Loss rate: 0.75%

Run 2: Report of Verus — Data Link

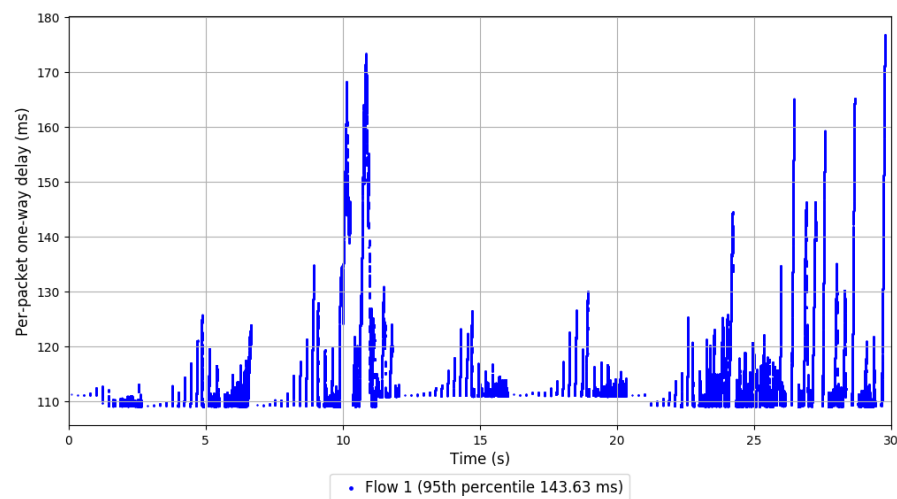
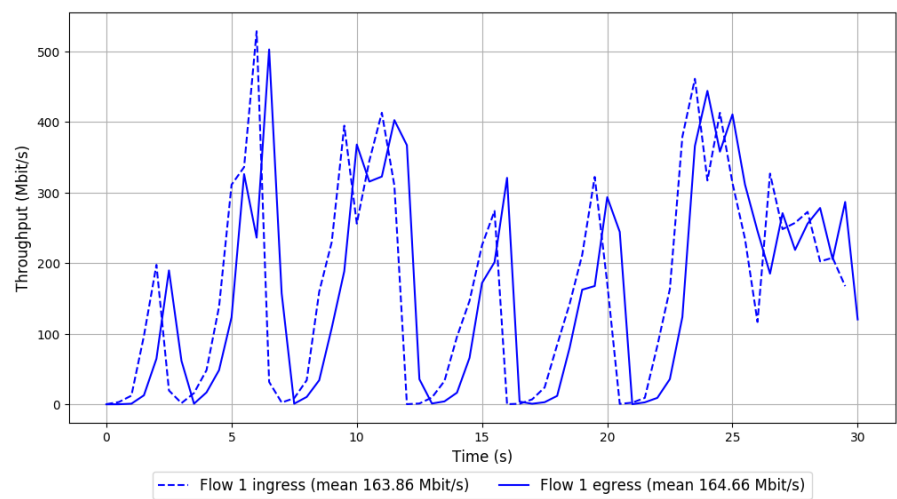


Run 3: Statistics of Verus

Start at: 2018-06-18 19:44:42
End at: 2018-06-18 19:45:12
Local clock offset: -0.166 ms
Remote clock offset: -0.347 ms

Below is generated by plot.py at 2018-06-18 23:25:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 164.66 Mbit/s
95th percentile per-packet one-way delay: 143.632 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 164.66 Mbit/s
95th percentile per-packet one-way delay: 143.632 ms
Loss rate: 0.48%

Run 3: Report of Verus — Data Link

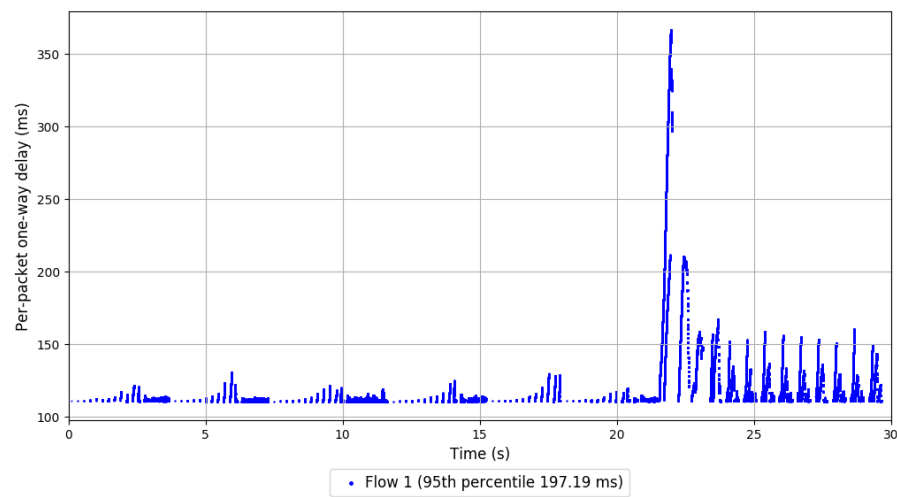
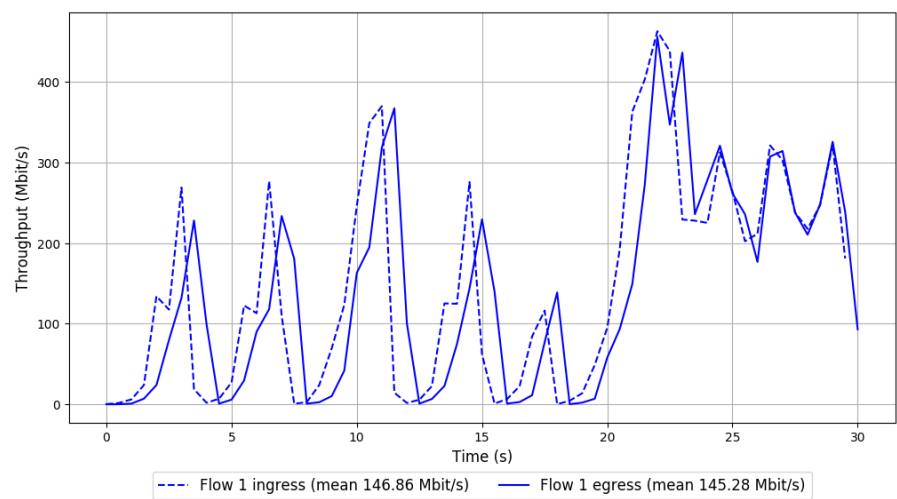


Run 4: Statistics of Verus

Start at: 2018-06-18 20:05:49
End at: 2018-06-18 20:06:19
Local clock offset: -0.081 ms
Remote clock offset: -0.083 ms

Below is generated by plot.py at 2018-06-18 23:25:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 145.28 Mbit/s
95th percentile per-packet one-way delay: 197.194 ms
Loss rate: 2.48%
-- Flow 1:
Average throughput: 145.28 Mbit/s
95th percentile per-packet one-way delay: 197.194 ms
Loss rate: 2.48%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-06-18 20:26:42

End at: 2018-06-18 20:27:12

Local clock offset: 1.211 ms

Remote clock offset: 0.438 ms

Below is generated by plot.py at 2018-06-18 23:25:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 118.84 Mbit/s

95th percentile per-packet one-way delay: 166.952 ms

Loss rate: 0.18%

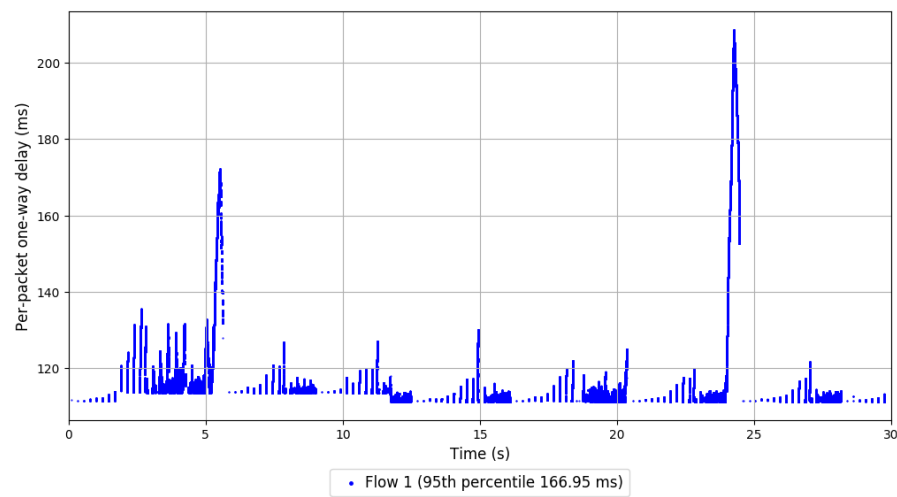
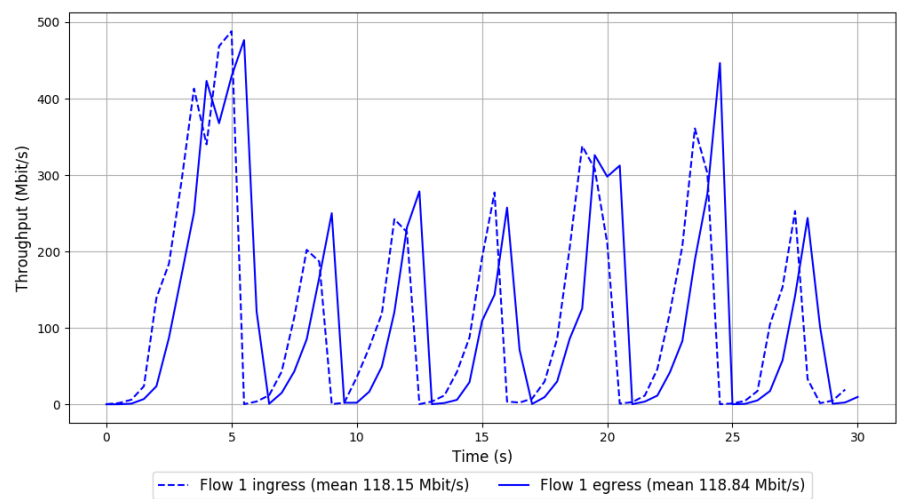
-- Flow 1:

Average throughput: 118.84 Mbit/s

95th percentile per-packet one-way delay: 166.952 ms

Loss rate: 0.18%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-06-18 20:47:16

End at: 2018-06-18 20:47:46

Local clock offset: 1.191 ms

Remote clock offset: 0.092 ms

Below is generated by plot.py at 2018-06-18 23:27:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 257.81 Mbit/s

95th percentile per-packet one-way delay: 179.540 ms

Loss rate: 0.74%

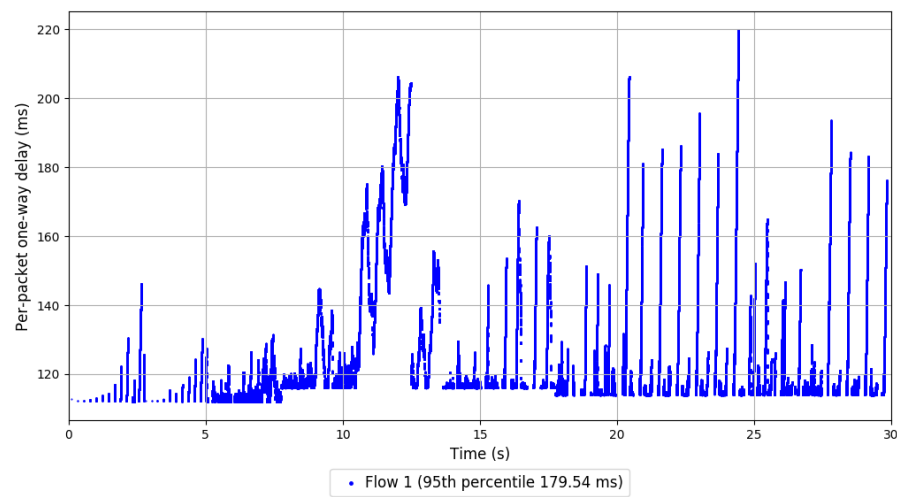
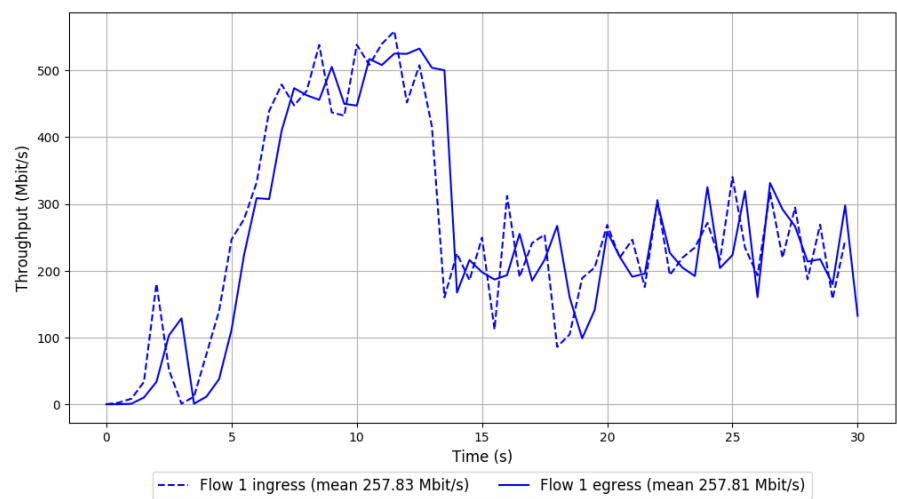
-- Flow 1:

Average throughput: 257.81 Mbit/s

95th percentile per-packet one-way delay: 179.540 ms

Loss rate: 0.74%

Run 6: Report of Verus — Data Link

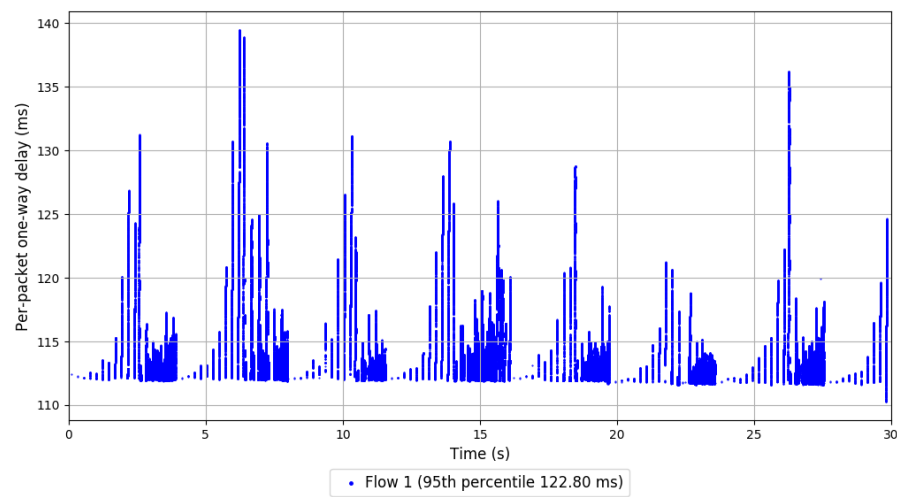
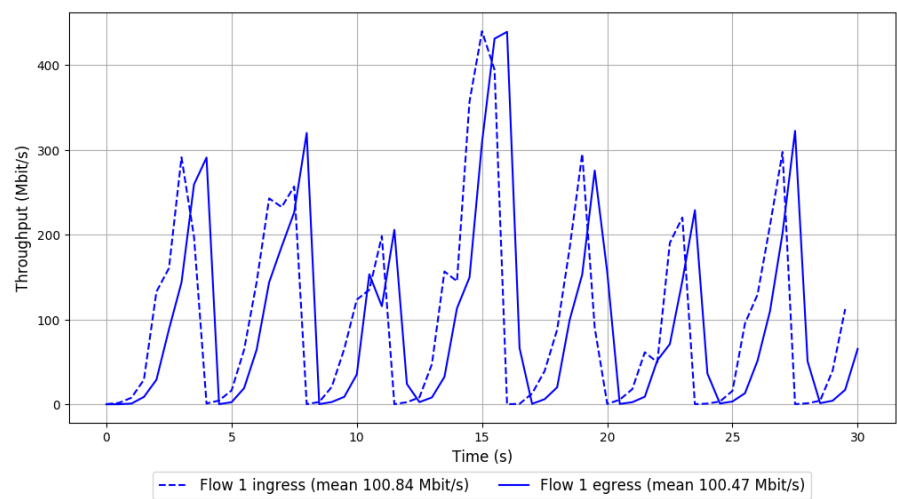


Run 7: Statistics of Verus

Start at: 2018-06-18 21:07:54
End at: 2018-06-18 21:08:24
Local clock offset: -1.184 ms
Remote clock offset: -0.369 ms

Below is generated by plot.py at 2018-06-18 23:27:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 100.47 Mbit/s
95th percentile per-packet one-way delay: 122.803 ms
Loss rate: 1.15%
-- Flow 1:
Average throughput: 100.47 Mbit/s
95th percentile per-packet one-way delay: 122.803 ms
Loss rate: 1.15%

Run 7: Report of Verus — Data Link

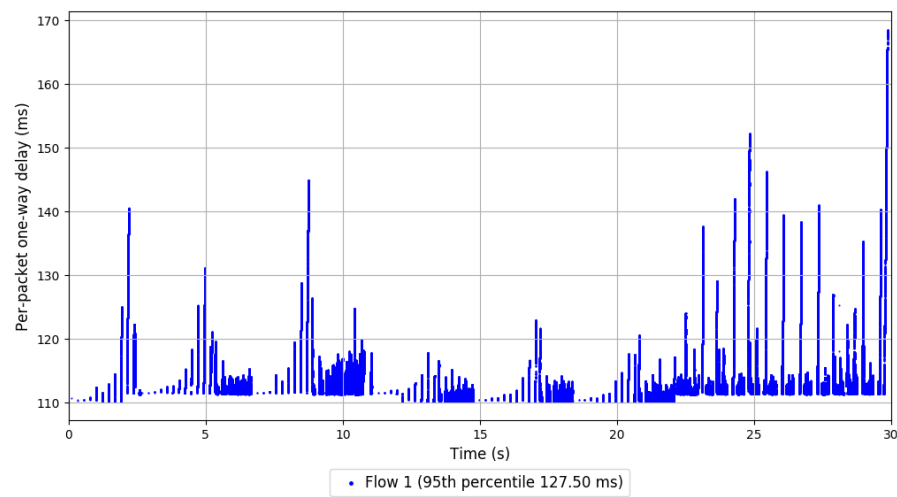
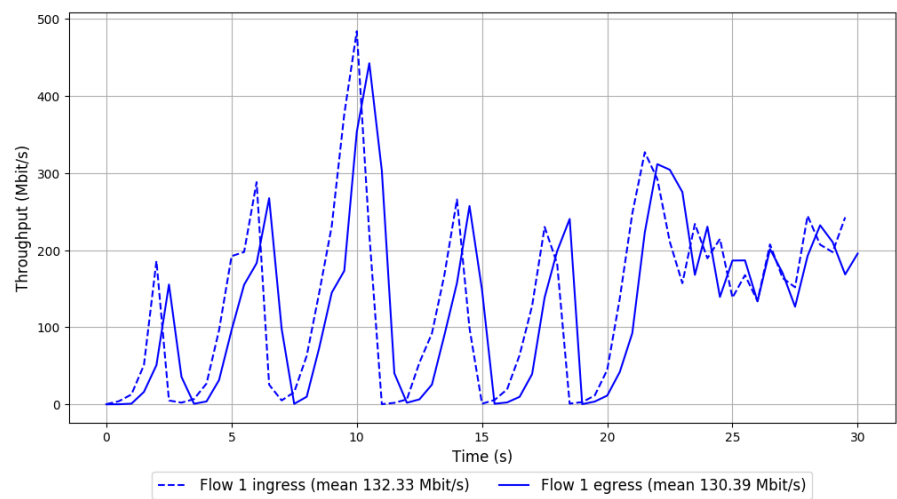


Run 8: Statistics of Verus

Start at: 2018-06-18 21:28:51
End at: 2018-06-18 21:29:21
Local clock offset: 0.08 ms
Remote clock offset: -0.343 ms

Below is generated by plot.py at 2018-06-18 23:27:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 130.39 Mbit/s
95th percentile per-packet one-way delay: 127.502 ms
Loss rate: 1.50%
-- Flow 1:
Average throughput: 130.39 Mbit/s
95th percentile per-packet one-way delay: 127.502 ms
Loss rate: 1.50%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-06-18 21:49:51

End at: 2018-06-18 21:50:21

Local clock offset: 0.067 ms

Remote clock offset: 0.046 ms

Below is generated by plot.py at 2018-06-18 23:27:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 186.23 Mbit/s

95th percentile per-packet one-way delay: 164.996 ms

Loss rate: 1.95%

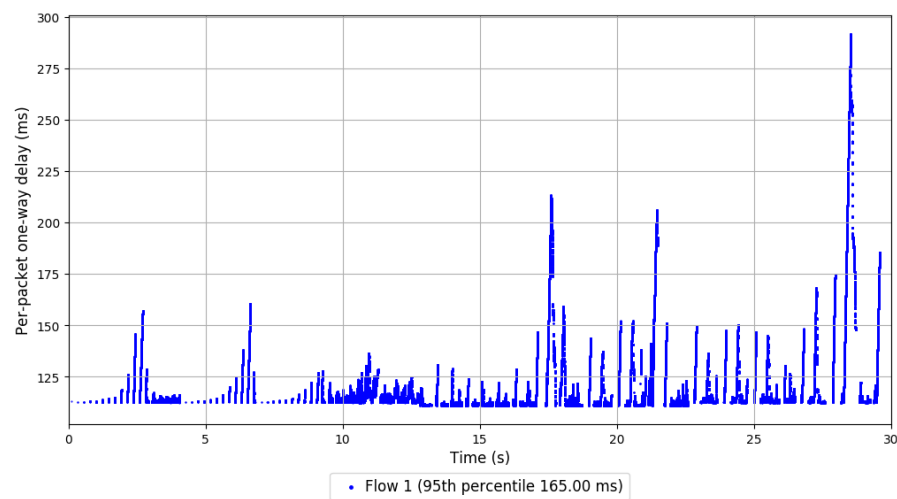
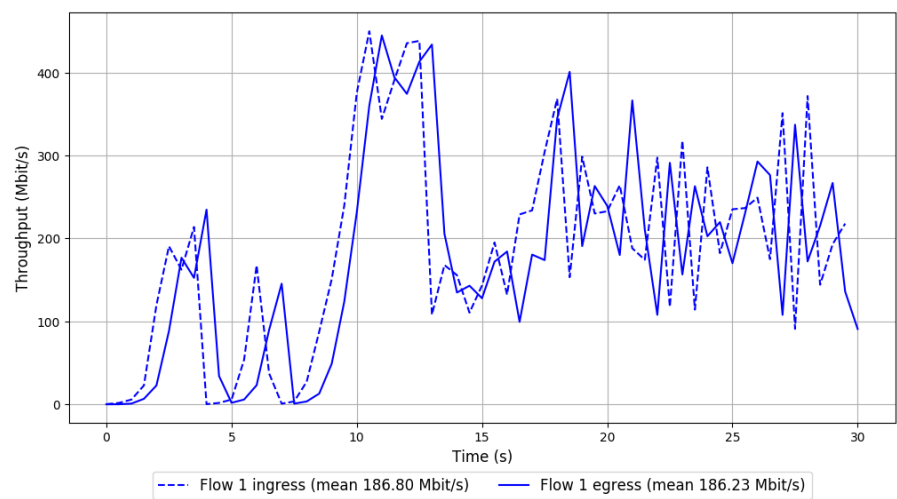
-- Flow 1:

Average throughput: 186.23 Mbit/s

95th percentile per-packet one-way delay: 164.996 ms

Loss rate: 1.95%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-06-18 22:10:58

End at: 2018-06-18 22:11:28

Local clock offset: 0.078 ms

Remote clock offset: 0.038 ms

Below is generated by plot.py at 2018-06-18 23:27:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 139.59 Mbit/s

95th percentile per-packet one-way delay: 129.008 ms

Loss rate: 1.49%

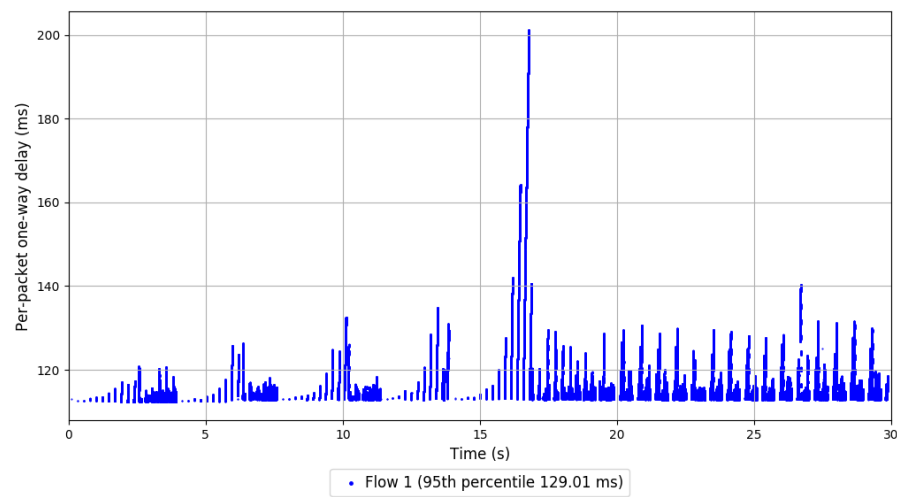
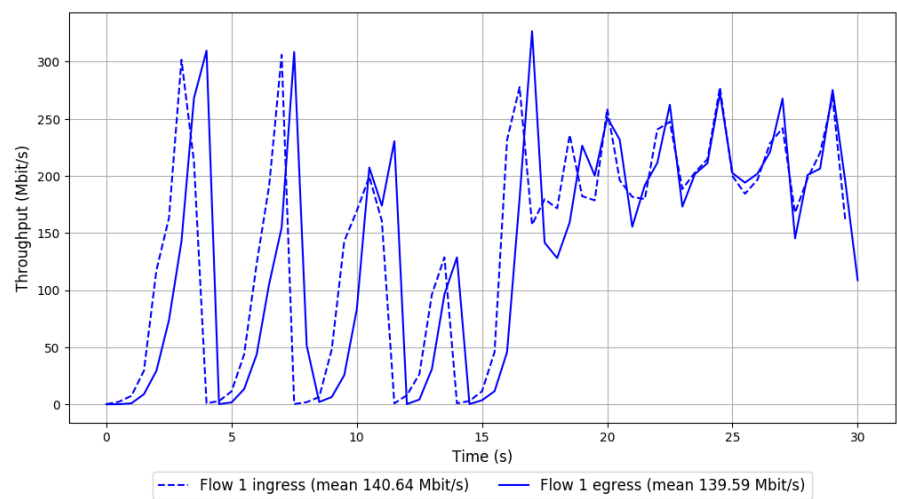
-- Flow 1:

Average throughput: 139.59 Mbit/s

95th percentile per-packet one-way delay: 129.008 ms

Loss rate: 1.49%

Run 10: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2018-06-18 18:57:15

End at: 2018-06-18 18:57:45

Local clock offset: -0.071 ms

Remote clock offset: -0.02 ms

Below is generated by plot.py at 2018-06-18 23:31:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 365.55 Mbit/s

95th percentile per-packet one-way delay: 124.357 ms

Loss rate: 0.99%

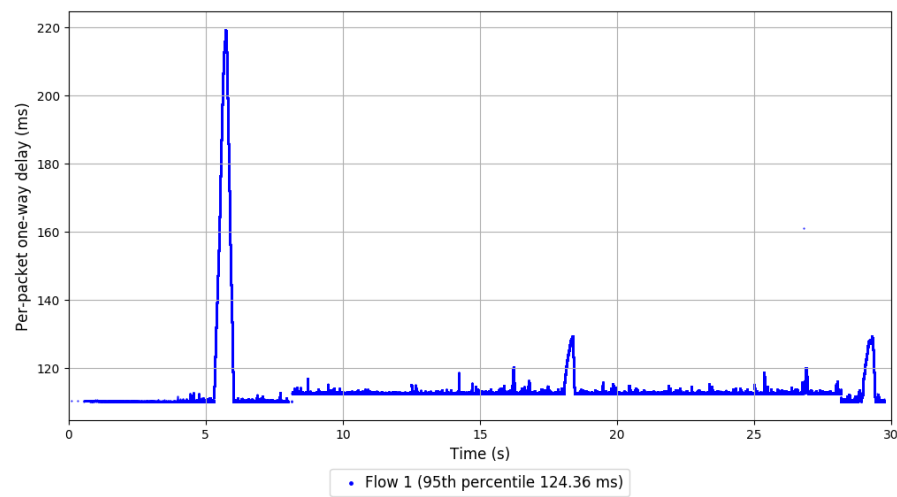
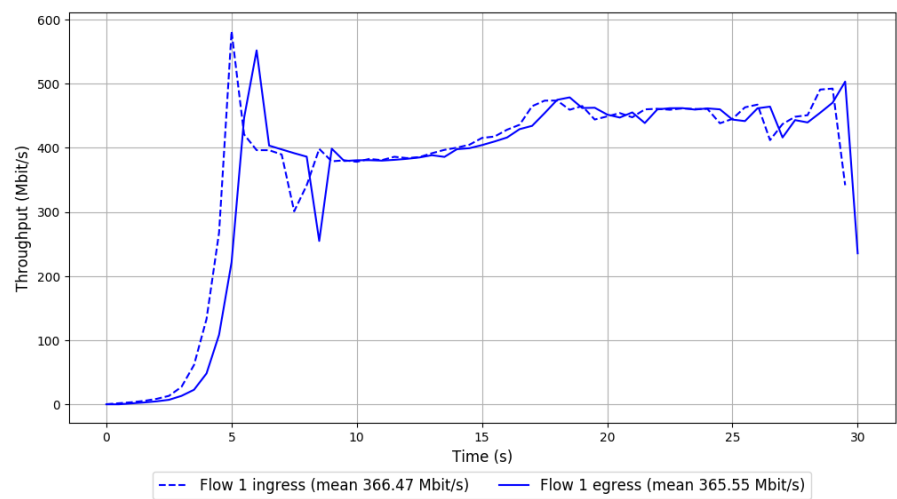
-- Flow 1:

Average throughput: 365.55 Mbit/s

95th percentile per-packet one-way delay: 124.357 ms

Loss rate: 0.99%

Run 1: Report of PCC-Vivace — Data Link

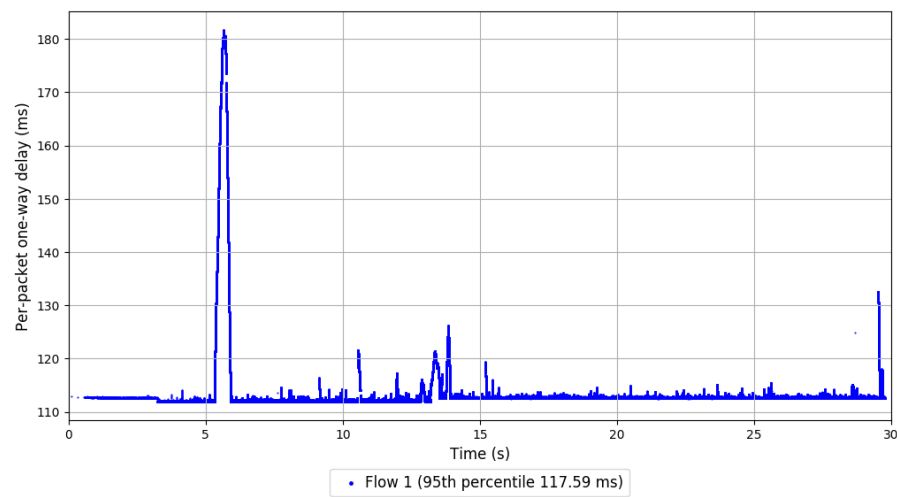
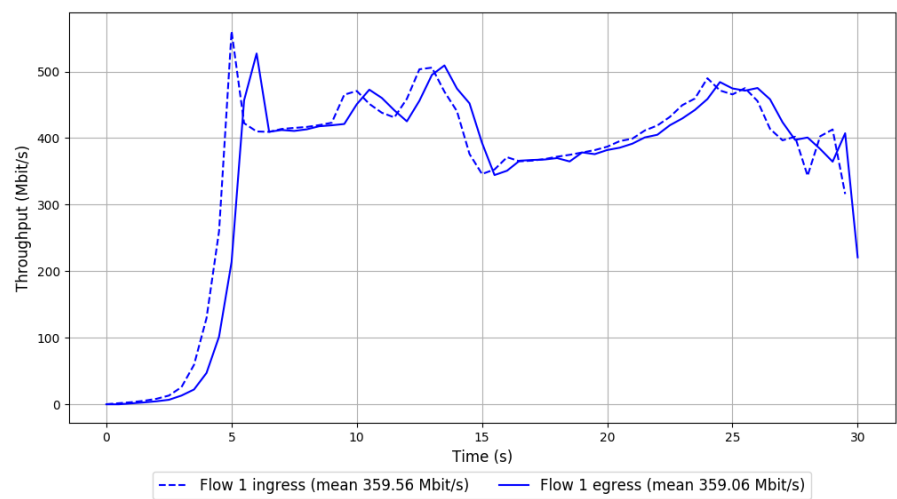


Run 2: Statistics of PCC-Vivace

Start at: 2018-06-18 19:18:20
End at: 2018-06-18 19:18:50
Local clock offset: 0.181 ms
Remote clock offset: -0.314 ms

Below is generated by plot.py at 2018-06-18 23:31:47
Datalink statistics
-- Total of 1 flow:
Average throughput: 359.06 Mbit/s
95th percentile per-packet one-way delay: 117.592 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 359.06 Mbit/s
95th percentile per-packet one-way delay: 117.592 ms
Loss rate: 0.88%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-06-18 19:39:06

End at: 2018-06-18 19:39:36

Local clock offset: -1.399 ms

Remote clock offset: 0.067 ms

Below is generated by plot.py at 2018-06-18 23:31:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 264.17 Mbit/s

95th percentile per-packet one-way delay: 111.376 ms

Loss rate: 0.97%

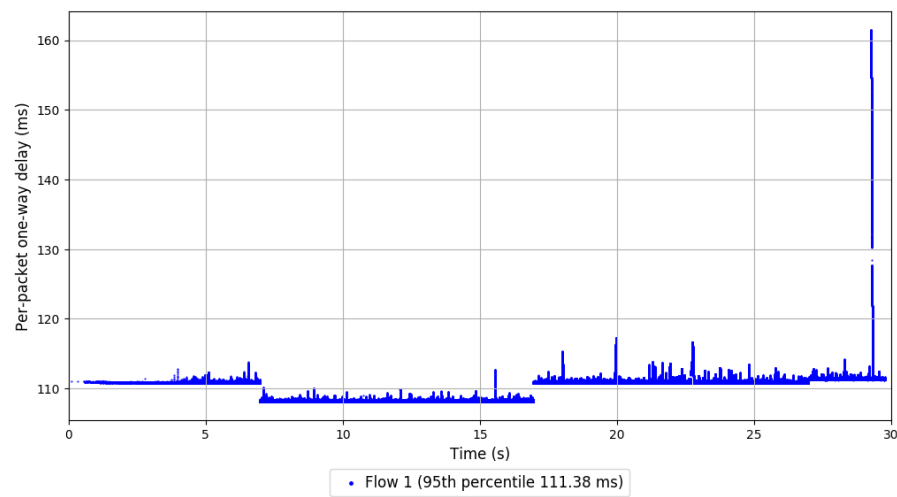
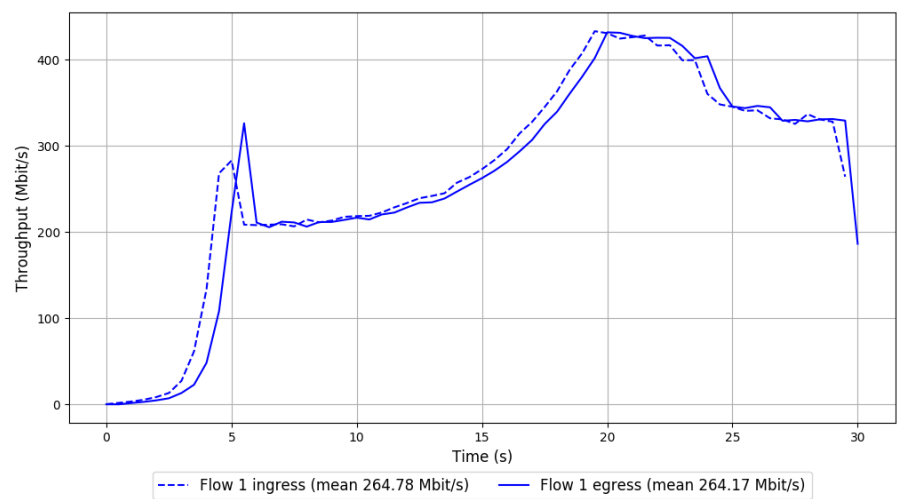
-- Flow 1:

Average throughput: 264.17 Mbit/s

95th percentile per-packet one-way delay: 111.376 ms

Loss rate: 0.97%

Run 3: Report of PCC-Vivace — Data Link

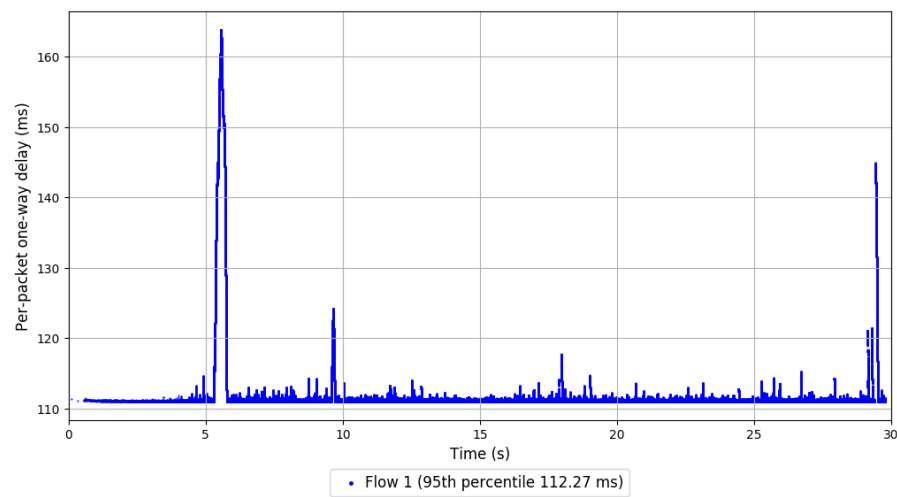
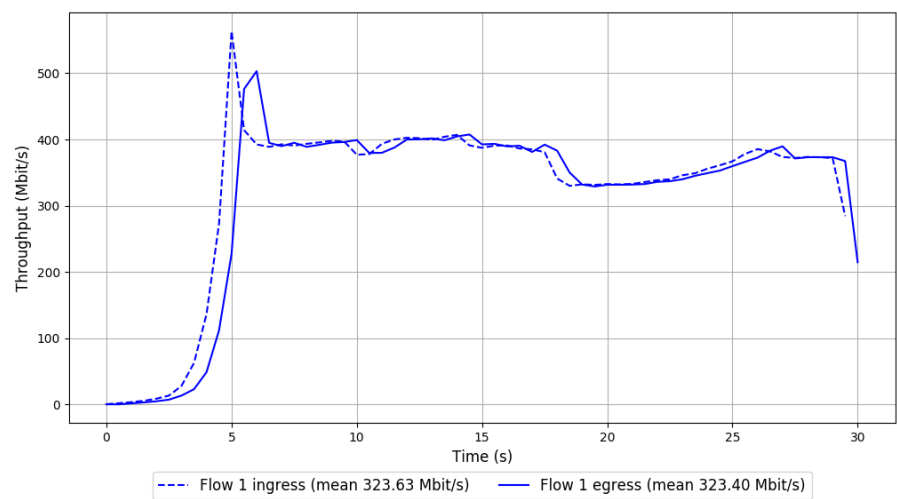


Run 4: Statistics of PCC-Vivace

Start at: 2018-06-18 19:59:52
End at: 2018-06-18 20:00:22
Local clock offset: -0.266 ms
Remote clock offset: -0.045 ms

Below is generated by plot.py at 2018-06-18 23:32:26
Datalink statistics
-- Total of 1 flow:
Average throughput: 323.40 Mbit/s
95th percentile per-packet one-way delay: 112.274 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 323.40 Mbit/s
95th percentile per-packet one-way delay: 112.274 ms
Loss rate: 0.81%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2018-06-18 20:20:58

End at: 2018-06-18 20:21:28

Local clock offset: -0.233 ms

Remote clock offset: 0.047 ms

Below is generated by plot.py at 2018-06-18 23:33:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 369.67 Mbit/s

95th percentile per-packet one-way delay: 113.183 ms

Loss rate: 0.79%

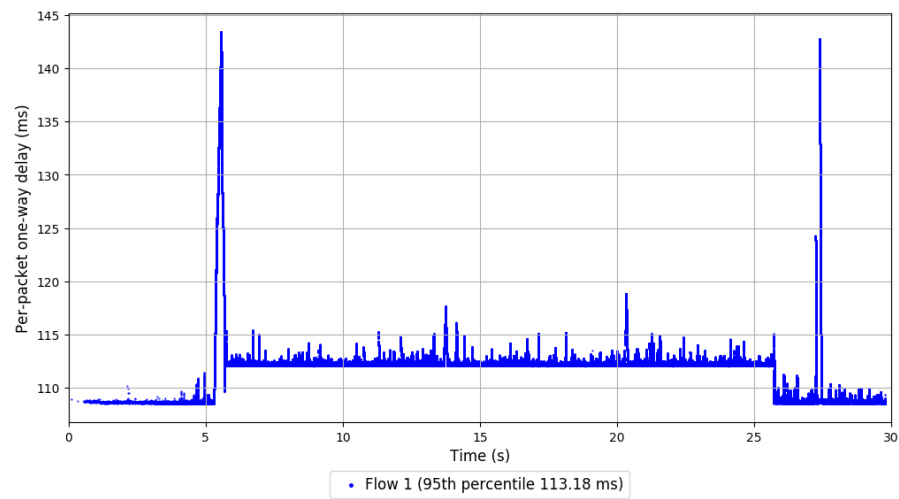
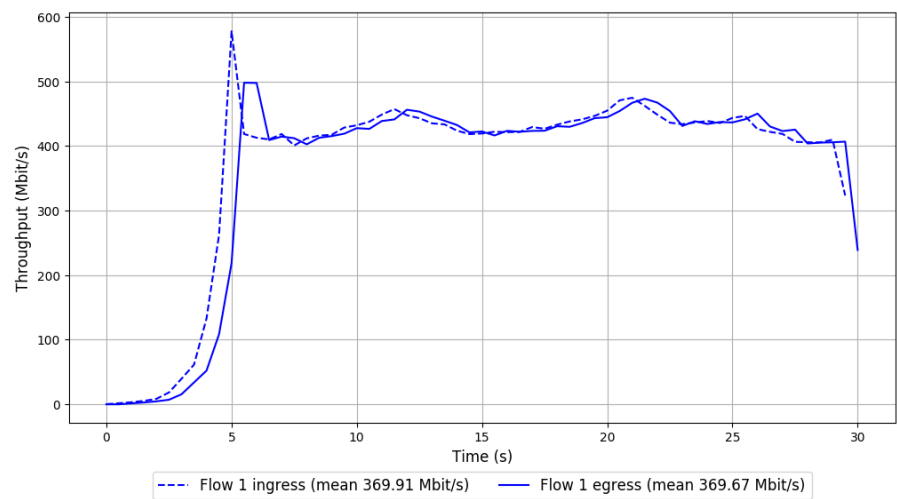
-- Flow 1:

Average throughput: 369.67 Mbit/s

95th percentile per-packet one-way delay: 113.183 ms

Loss rate: 0.79%

Run 5: Report of PCC-Vivace — Data Link



Run 6: Statistics of PCC-Vivace

Start at: 2018-06-18 20:41:35

End at: 2018-06-18 20:42:05

Local clock offset: 0.125 ms

Remote clock offset: 0.095 ms

Below is generated by plot.py at 2018-06-18 23:33:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 397.62 Mbit/s

95th percentile per-packet one-way delay: 111.000 ms

Loss rate: 0.85%

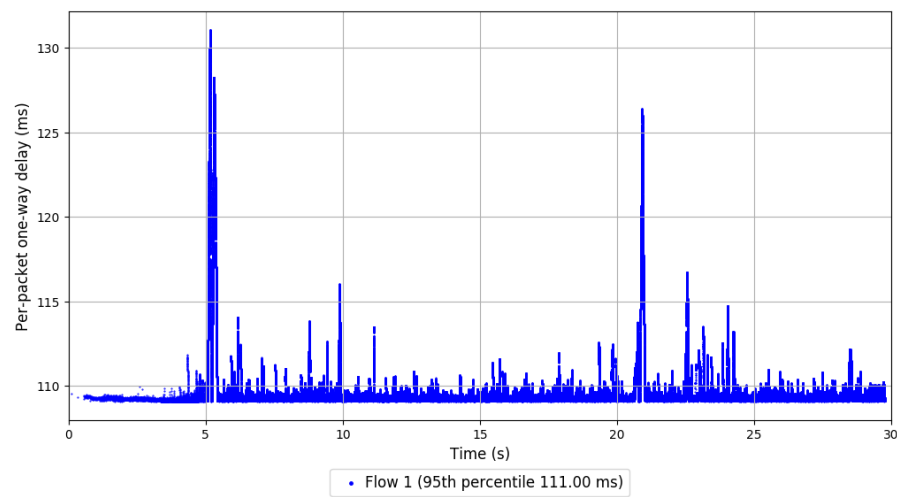
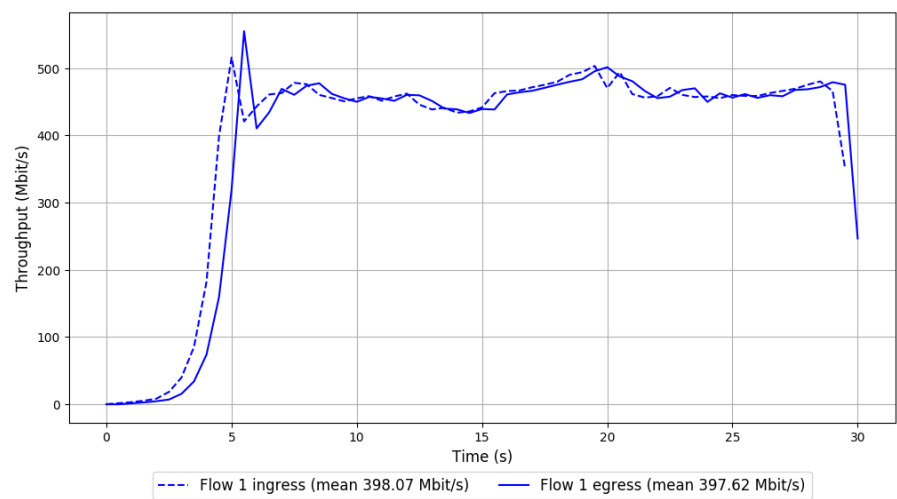
-- Flow 1:

Average throughput: 397.62 Mbit/s

95th percentile per-packet one-way delay: 111.000 ms

Loss rate: 0.85%

Run 6: Report of PCC-Vivace — Data Link



Run 7: Statistics of PCC-Vivace

Start at: 2018-06-18 21:02:11

End at: 2018-06-18 21:02:41

Local clock offset: 0.097 ms

Remote clock offset: 0.365 ms

Below is generated by plot.py at 2018-06-18 23:33:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 339.37 Mbit/s

95th percentile per-packet one-way delay: 111.771 ms

Loss rate: 0.65%

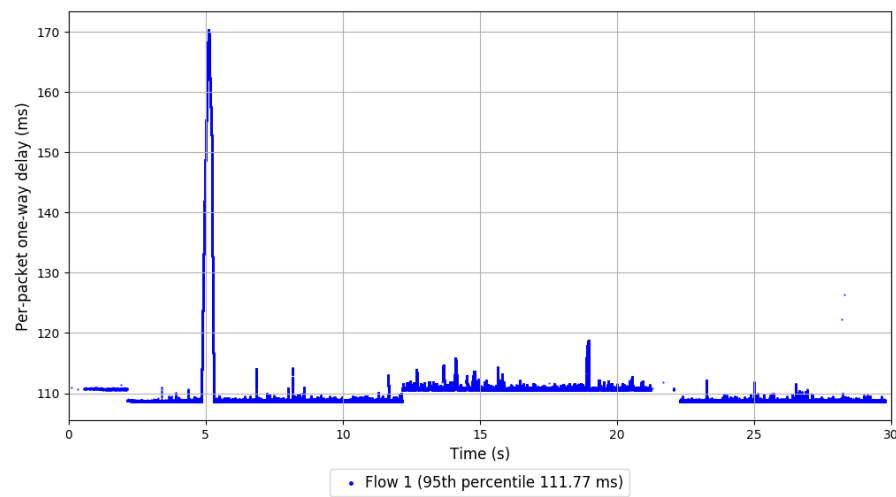
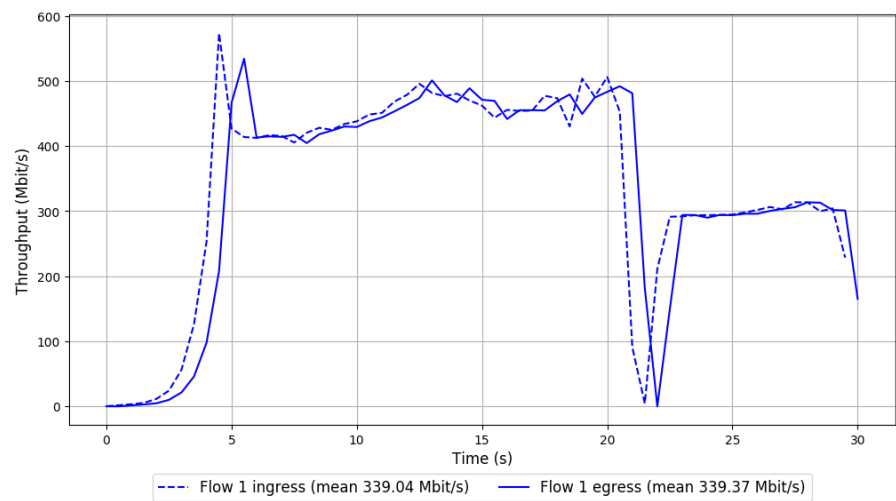
-- Flow 1:

Average throughput: 339.37 Mbit/s

95th percentile per-packet one-way delay: 111.771 ms

Loss rate: 0.65%

Run 7: Report of PCC-Vivace — Data Link



Run 8: Statistics of PCC-Vivace

Start at: 2018-06-18 21:23:02

End at: 2018-06-18 21:23:32

Local clock offset: 1.241 ms

Remote clock offset: -0.355 ms

Below is generated by plot.py at 2018-06-18 23:33:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 286.35 Mbit/s

95th percentile per-packet one-way delay: 114.523 ms

Loss rate: 1.04%

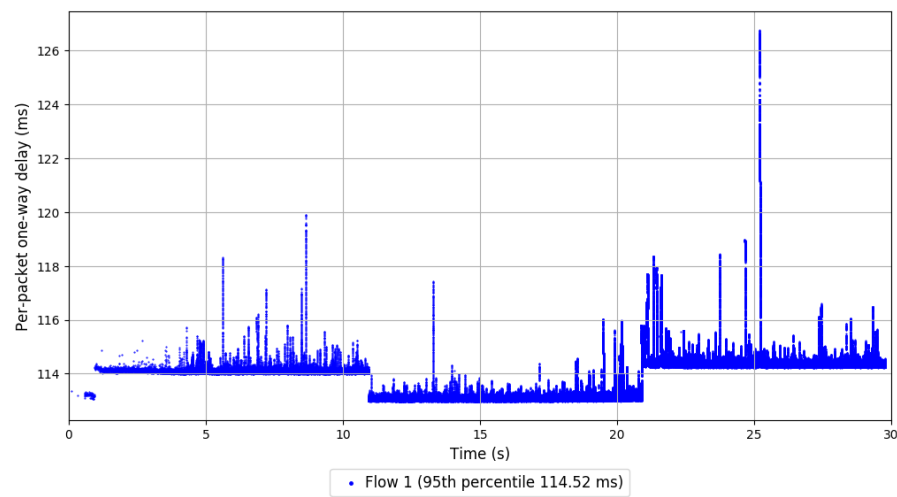
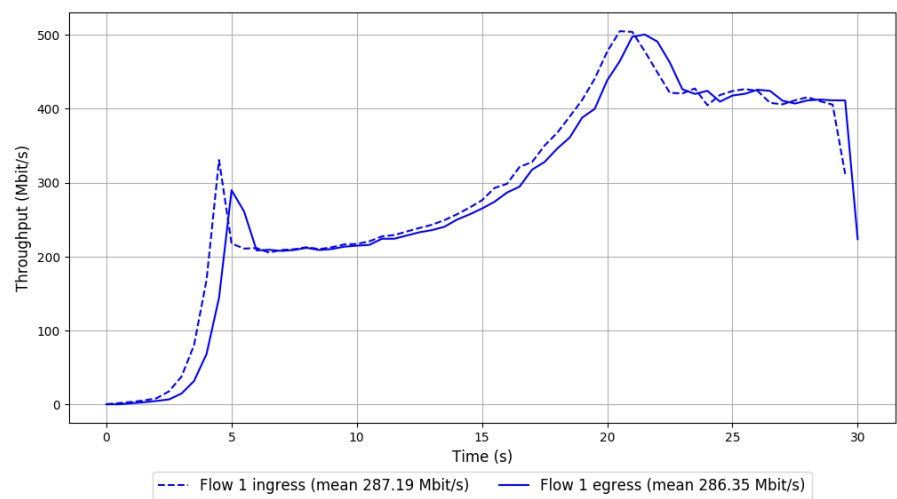
-- Flow 1:

Average throughput: 286.35 Mbit/s

95th percentile per-packet one-way delay: 114.523 ms

Loss rate: 1.04%

Run 8: Report of PCC-Vivace — Data Link



Run 9: Statistics of PCC-Vivace

Start at: 2018-06-18 21:43:57

End at: 2018-06-18 21:44:27

Local clock offset: -0.148 ms

Remote clock offset: 0.089 ms

Below is generated by plot.py at 2018-06-18 23:34:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 383.43 Mbit/s

95th percentile per-packet one-way delay: 113.545 ms

Loss rate: 0.97%

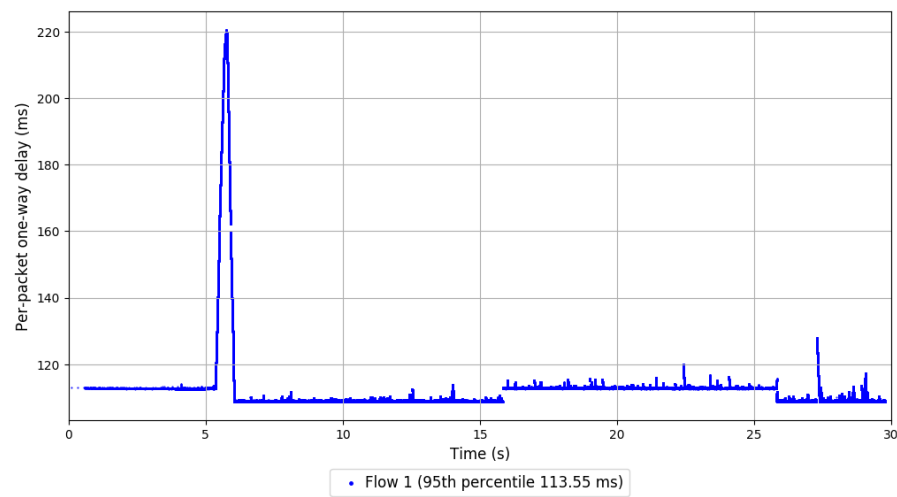
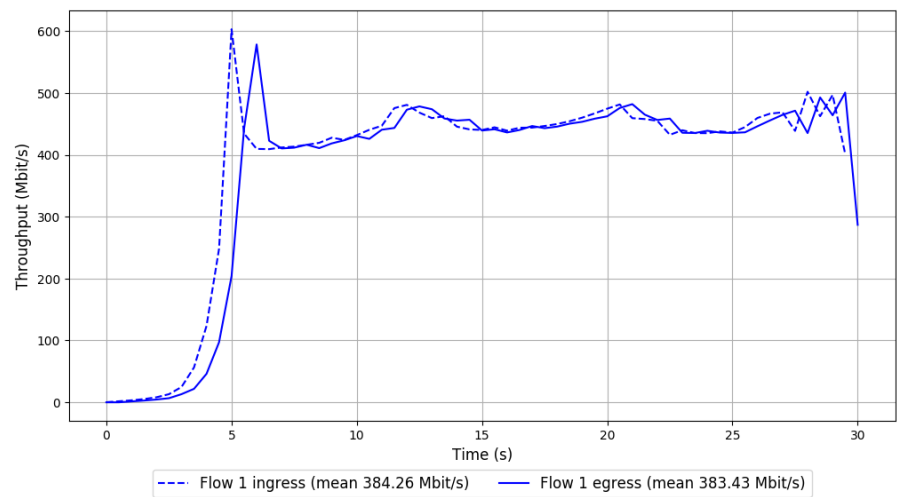
-- Flow 1:

Average throughput: 383.43 Mbit/s

95th percentile per-packet one-way delay: 113.545 ms

Loss rate: 0.97%

Run 9: Report of PCC-Vivace — Data Link



Run 10: Statistics of PCC-Vivace

Start at: 2018-06-18 22:05:00

End at: 2018-06-18 22:05:30

Local clock offset: -0.275 ms

Remote clock offset: 0.025 ms

Below is generated by plot.py at 2018-06-18 23:34:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 359.58 Mbit/s

95th percentile per-packet one-way delay: 160.630 ms

Loss rate: 1.05%

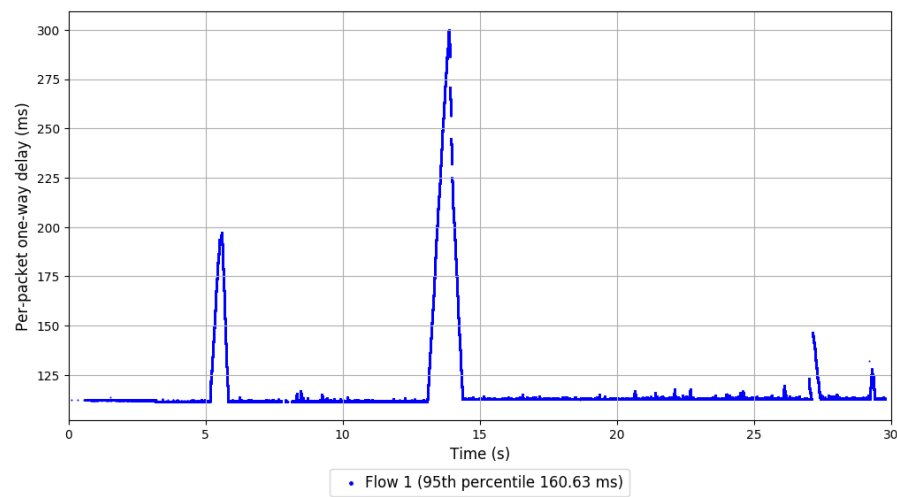
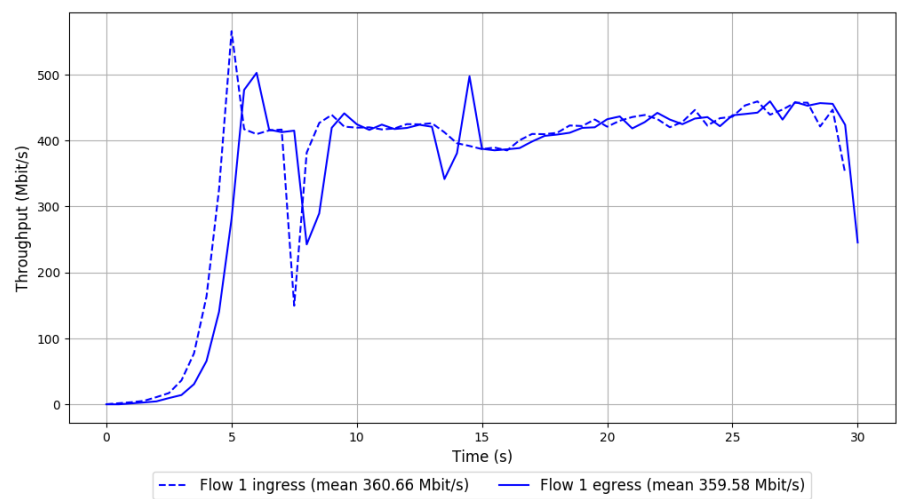
-- Flow 1:

Average throughput: 359.58 Mbit/s

95th percentile per-packet one-way delay: 160.630 ms

Loss rate: 1.05%

Run 10: Report of PCC-Vivace — Data Link

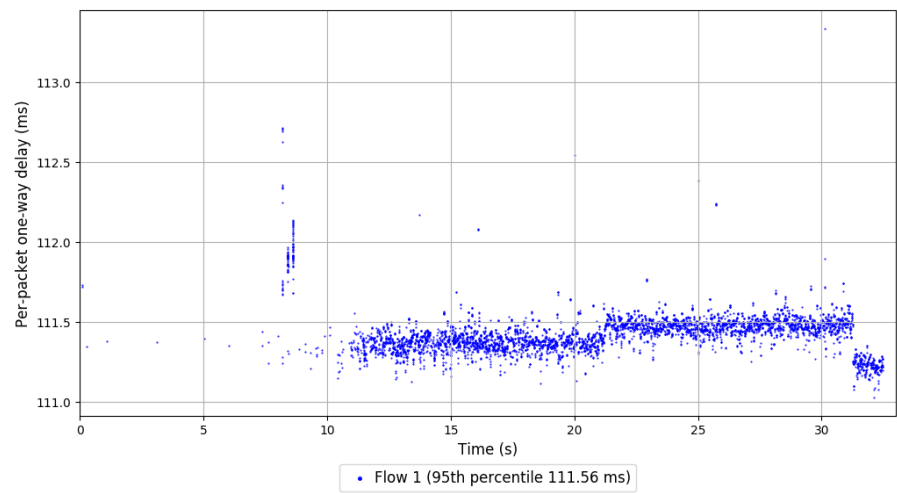
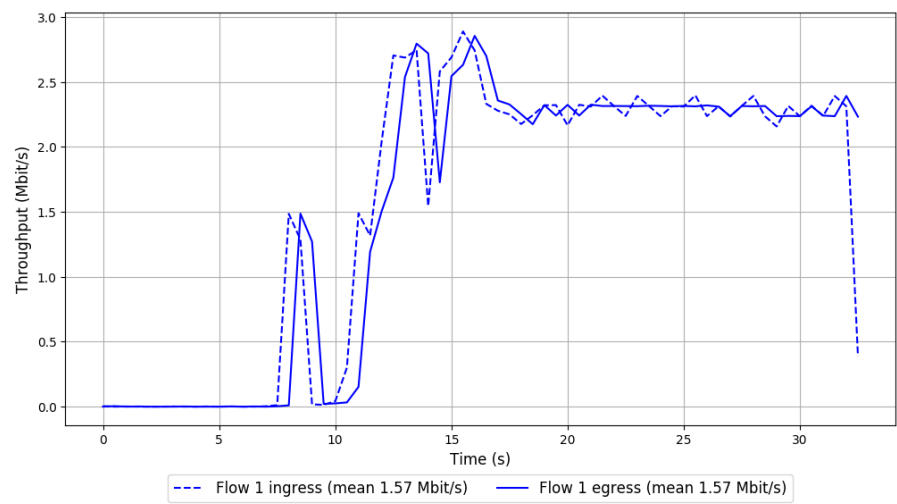


Run 1: Statistics of WebRTC media

Start at: 2018-06-18 18:46:35
End at: 2018-06-18 18:47:05
Local clock offset: -1.025 ms
Remote clock offset: -0.008 ms

Below is generated by plot.py at 2018-06-18 23:34:09
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.57 Mbit/s
95th percentile per-packet one-way delay: 111.565 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 1.57 Mbit/s
95th percentile per-packet one-way delay: 111.565 ms
Loss rate: 0.98%

Run 1: Report of WebRTC media — Data Link

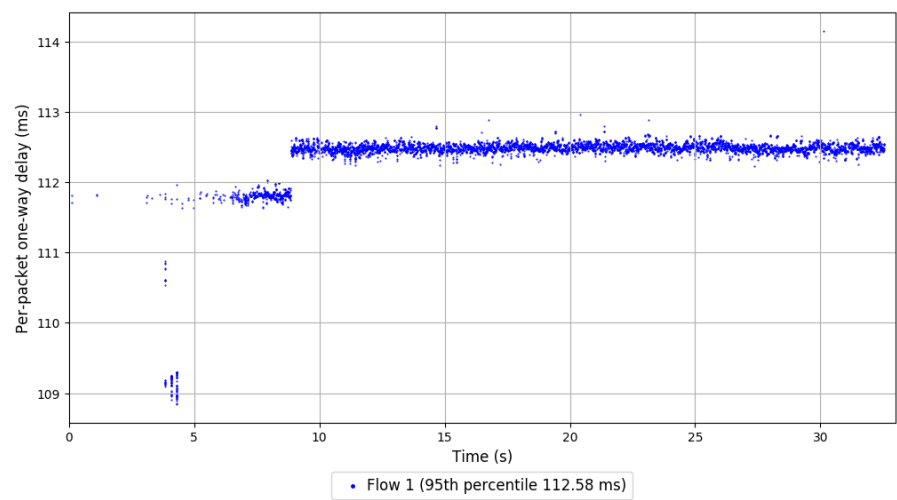
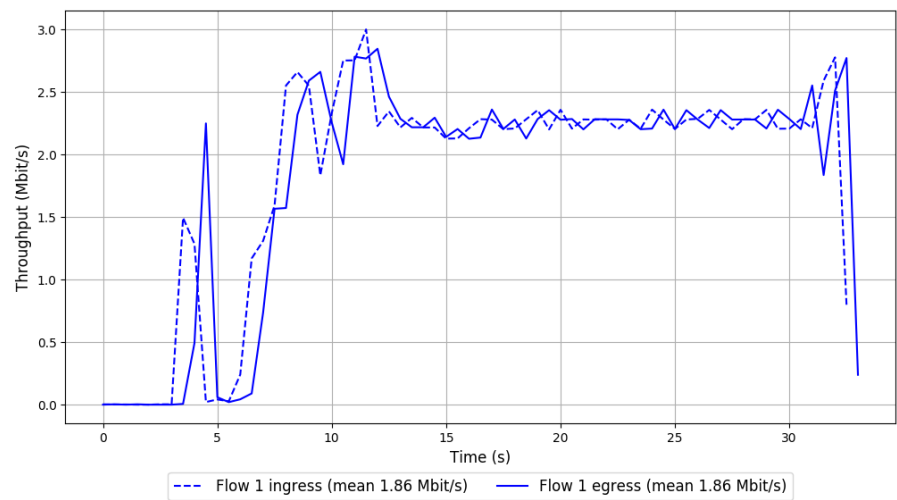


Run 2: Statistics of WebRTC media

Start at: 2018-06-18 19:07:37
End at: 2018-06-18 19:08:07
Local clock offset: -0.021 ms
Remote clock offset: -0.012 ms

Below is generated by plot.py at 2018-06-18 23:34:09
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.86 Mbit/s
95th percentile per-packet one-way delay: 112.583 ms
Loss rate: 0.99%
-- Flow 1:
Average throughput: 1.86 Mbit/s
95th percentile per-packet one-way delay: 112.583 ms
Loss rate: 0.99%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-06-18 19:28:16

End at: 2018-06-18 19:28:46

Local clock offset: 0.037 ms

Remote clock offset: 0.077 ms

Below is generated by plot.py at 2018-06-18 23:34:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.89 Mbit/s

95th percentile per-packet one-way delay: 112.883 ms

Loss rate: 0.82%

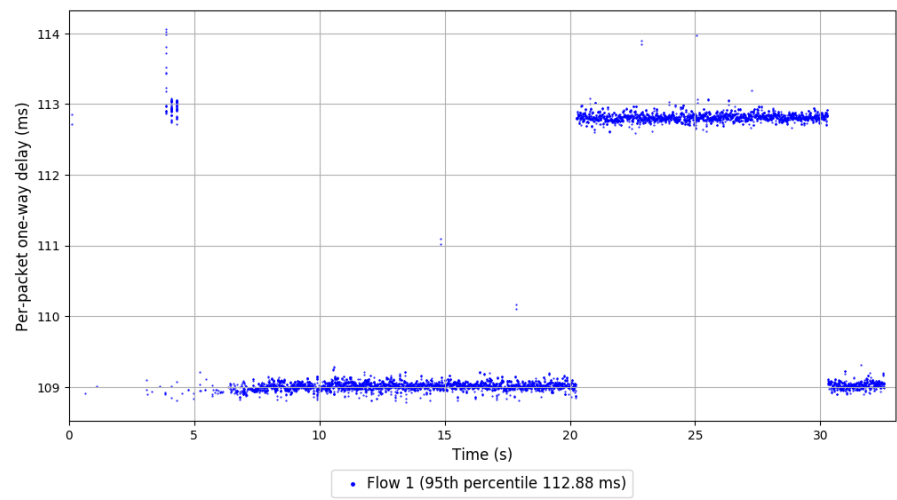
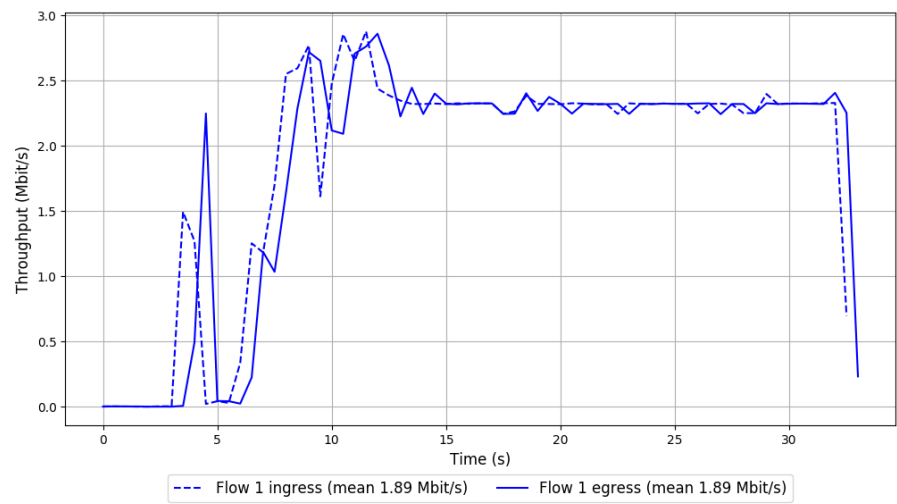
-- Flow 1:

Average throughput: 1.89 Mbit/s

95th percentile per-packet one-way delay: 112.883 ms

Loss rate: 0.82%

Run 3: Report of WebRTC media — Data Link

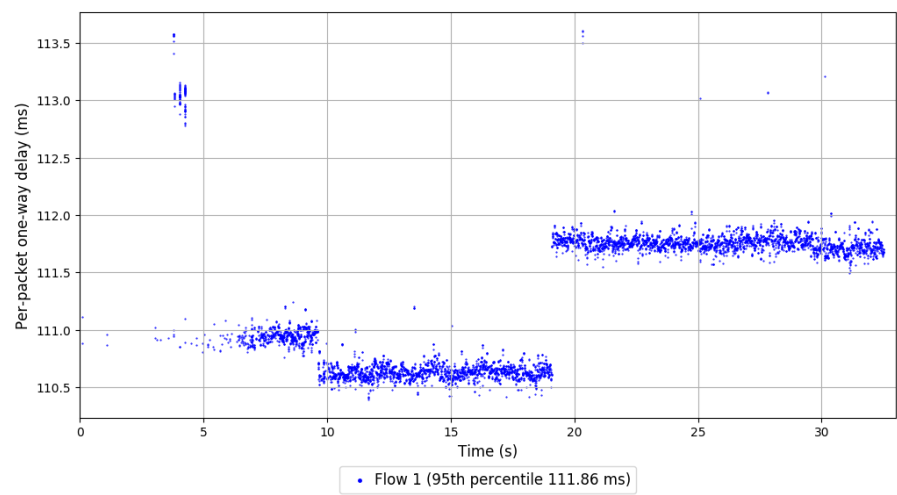
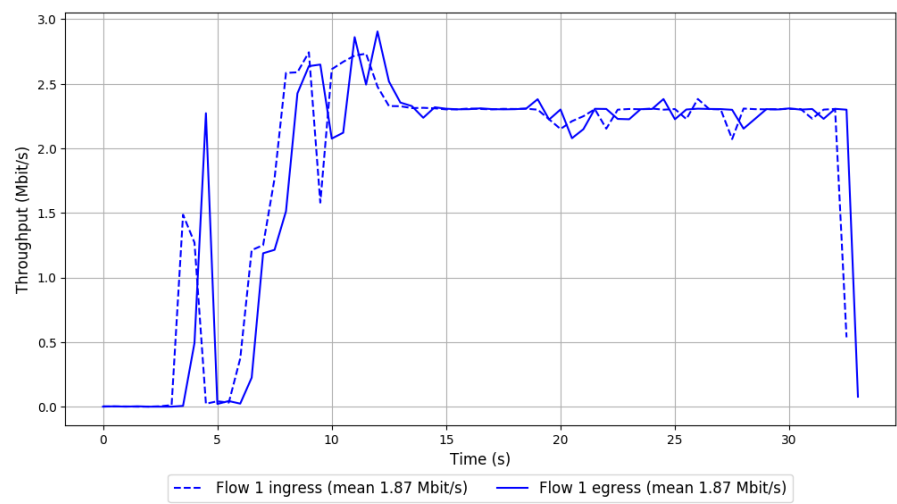


Run 4: Statistics of WebRTC media

Start at: 2018-06-18 19:49:06
End at: 2018-06-18 19:49:36
Local clock offset: 0.029 ms
Remote clock offset: -0.029 ms

Below is generated by plot.py at 2018-06-18 23:34:09
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.87 Mbit/s
95th percentile per-packet one-way delay: 111.856 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 1.87 Mbit/s
95th percentile per-packet one-way delay: 111.856 ms
Loss rate: 0.82%

Run 4: Report of WebRTC media — Data Link

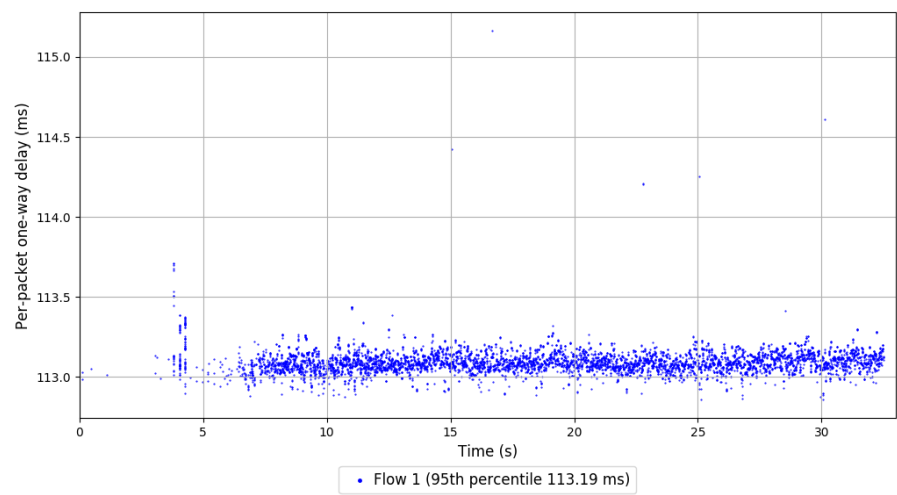
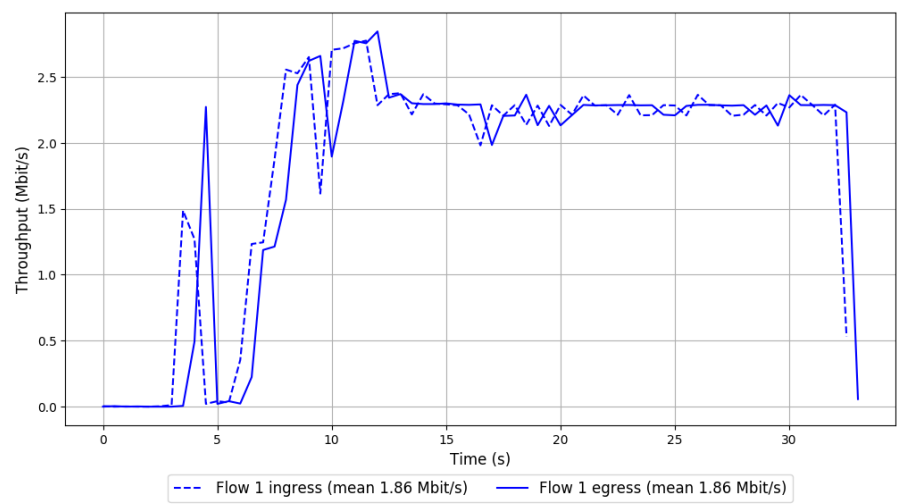


Run 5: Statistics of WebRTC media

Start at: 2018-06-18 20:10:09
End at: 2018-06-18 20:10:39
Local clock offset: -0.313 ms
Remote clock offset: -0.448 ms

Below is generated by plot.py at 2018-06-18 23:34:09
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.86 Mbit/s
95th percentile per-packet one-way delay: 113.191 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 1.86 Mbit/s
95th percentile per-packet one-way delay: 113.191 ms
Loss rate: 0.82%

Run 5: Report of WebRTC media — Data Link

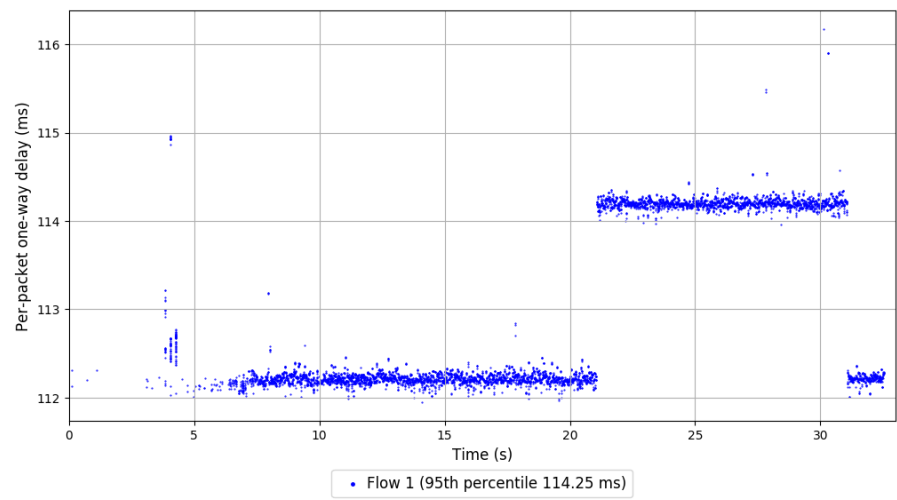
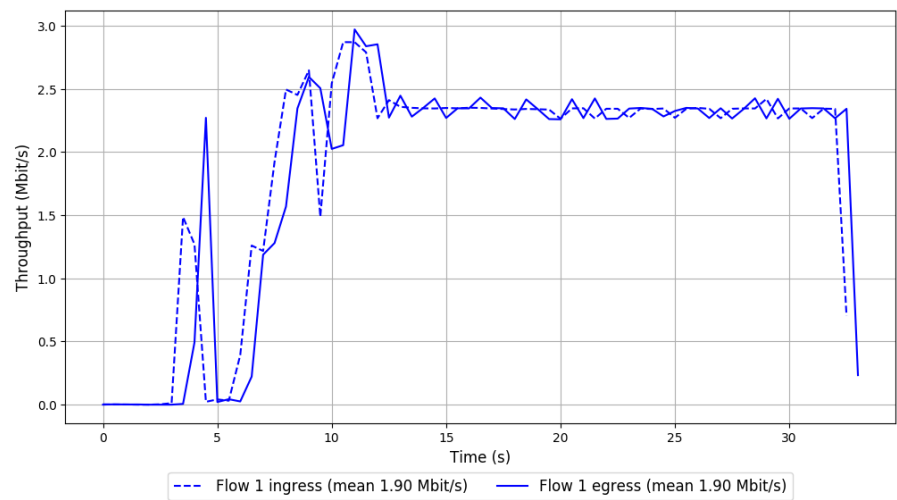


Run 6: Statistics of WebRTC media

Start at: 2018-06-18 20:30:55
End at: 2018-06-18 20:31:25
Local clock offset: 1.195 ms
Remote clock offset: -0.308 ms

Below is generated by plot.py at 2018-06-18 23:34:09
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.90 Mbit/s
95th percentile per-packet one-way delay: 114.254 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 1.90 Mbit/s
95th percentile per-packet one-way delay: 114.254 ms
Loss rate: 0.82%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-06-18 20:51:24

End at: 2018-06-18 20:51:54

Local clock offset: 1.399 ms

Remote clock offset: 0.064 ms

Below is generated by plot.py at 2018-06-18 23:34:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.87 Mbit/s

95th percentile per-packet one-way delay: 114.148 ms

Loss rate: 1.08%

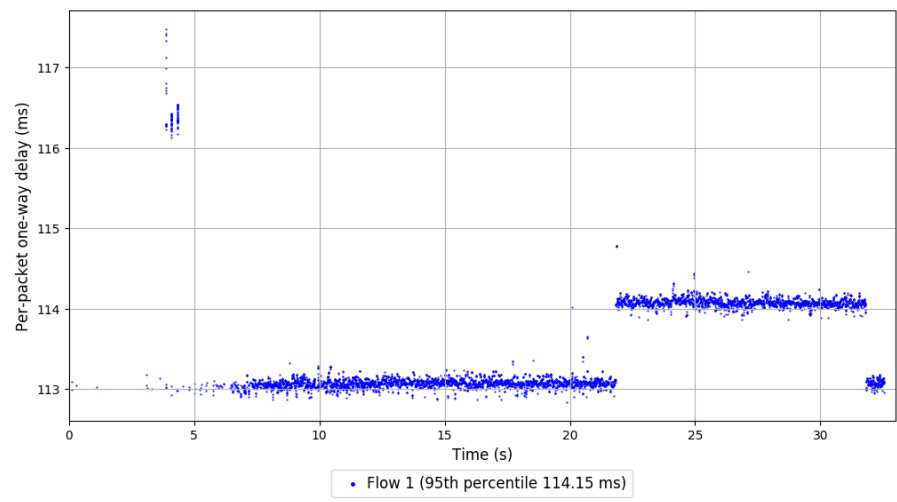
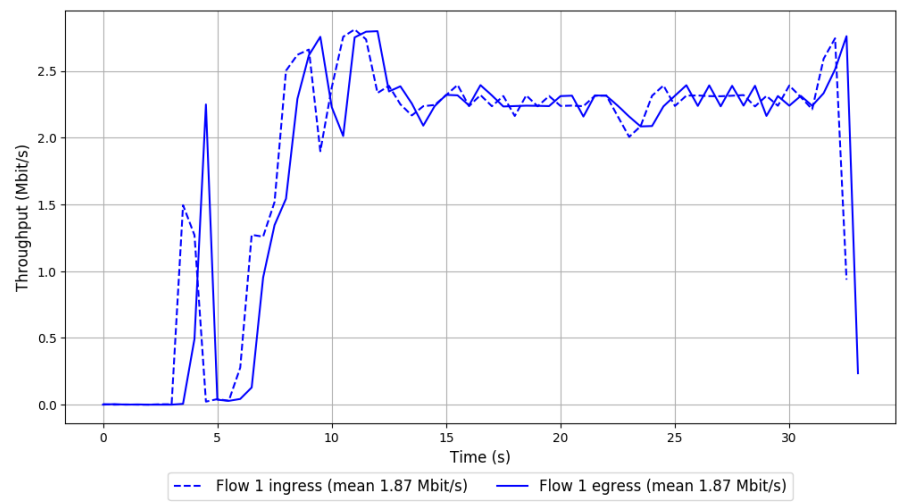
-- Flow 1:

Average throughput: 1.87 Mbit/s

95th percentile per-packet one-way delay: 114.148 ms

Loss rate: 1.08%

Run 7: Report of WebRTC media — Data Link

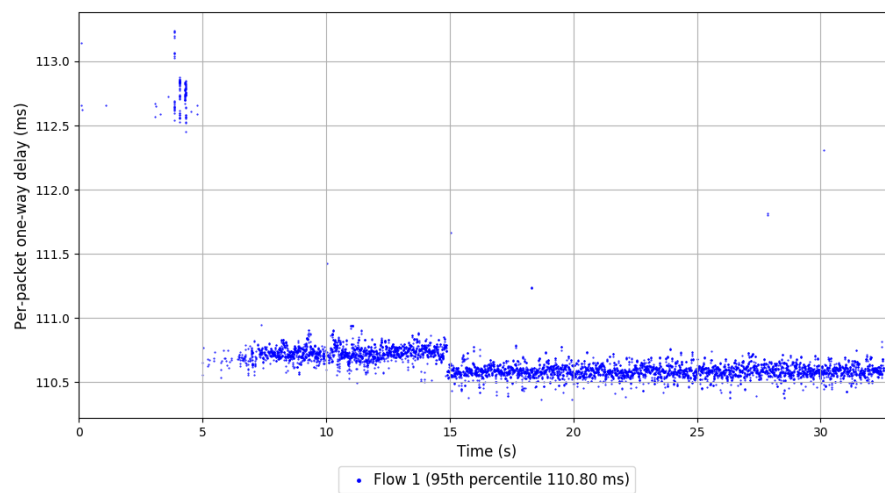
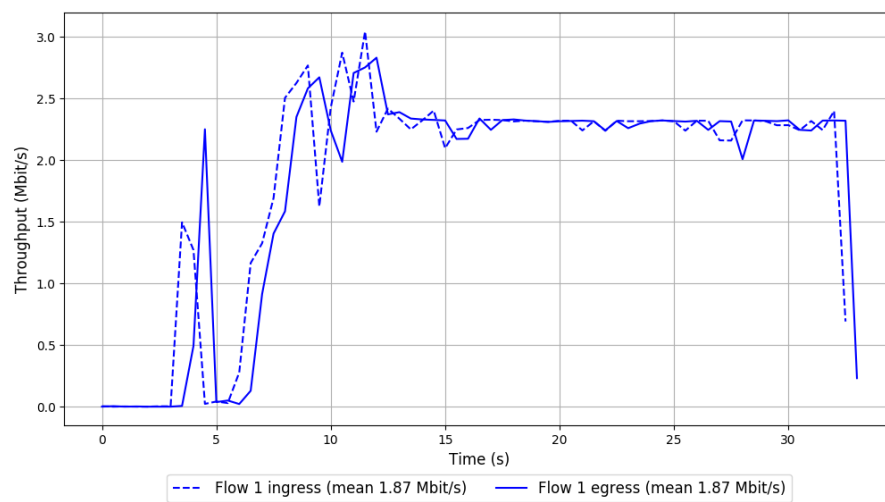


Run 8: Statistics of WebRTC media

Start at: 2018-06-18 21:12:21
End at: 2018-06-18 21:12:51
Local clock offset: -0.272 ms
Remote clock offset: -0.012 ms

Below is generated by plot.py at 2018-06-18 23:34:09
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.87 Mbit/s
95th percentile per-packet one-way delay: 110.801 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 1.87 Mbit/s
95th percentile per-packet one-way delay: 110.801 ms
Loss rate: 0.82%

Run 8: Report of WebRTC media — Data Link

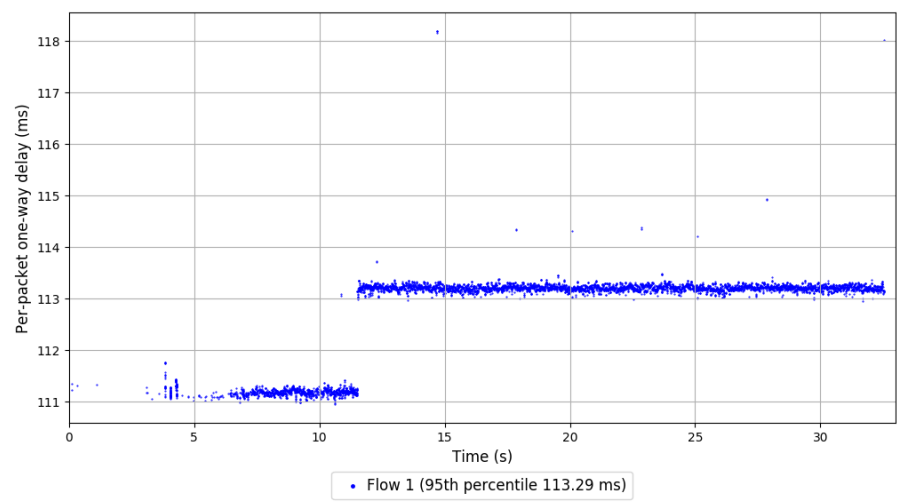
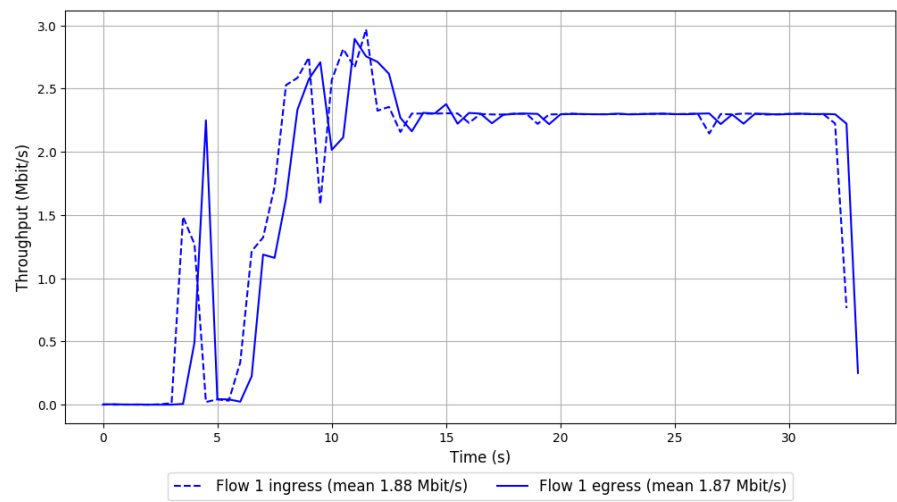


Run 9: Statistics of WebRTC media

Start at: 2018-06-18 21:33:05
End at: 2018-06-18 21:33:35
Local clock offset: -0.171 ms
Remote clock offset: -0.311 ms

Below is generated by plot.py at 2018-06-18 23:34:09
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.87 Mbit/s
95th percentile per-packet one-way delay: 113.293 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 1.87 Mbit/s
95th percentile per-packet one-way delay: 113.293 ms
Loss rate: 0.86%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-06-18 21:54:28

End at: 2018-06-18 21:54:58

Local clock offset: -0.07 ms

Remote clock offset: -0.336 ms

Below is generated by plot.py at 2018-06-18 23:34:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.86 Mbit/s

95th percentile per-packet one-way delay: 111.485 ms

Loss rate: 0.81%

-- Flow 1:

Average throughput: 1.86 Mbit/s

95th percentile per-packet one-way delay: 111.485 ms

Loss rate: 0.81%

Run 10: Report of WebRTC media — Data Link

