

Pantheon Report

Generated at 2018-07-25 01:47:31 (UTC).

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

Repeated the test of 17 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

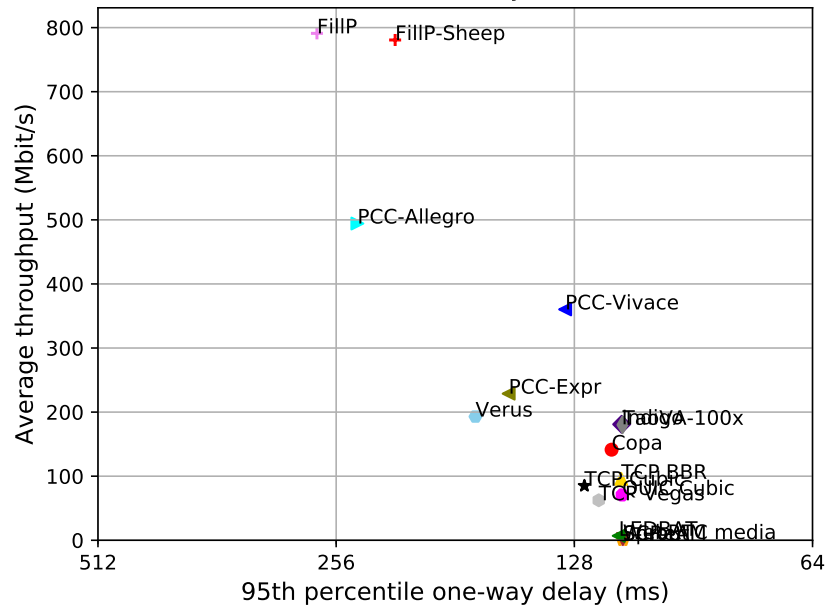
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

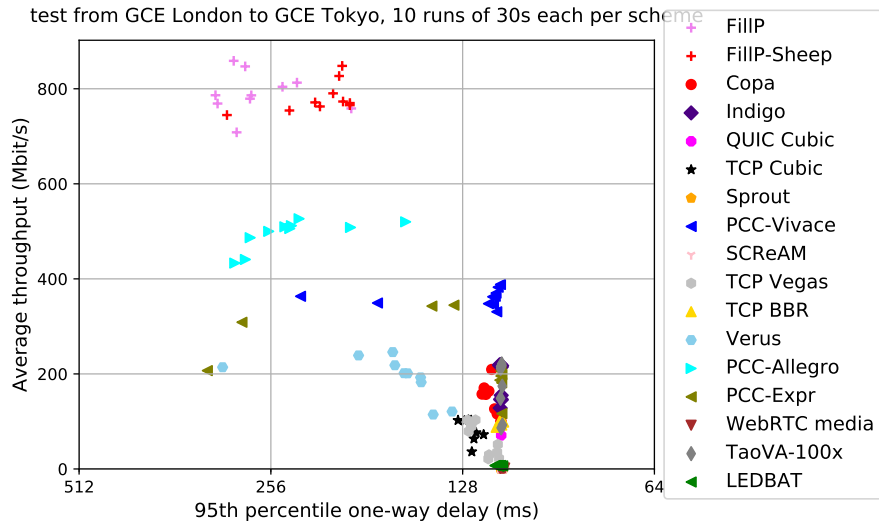
Git summary:

```
branch: master @ 640164b5b17c7c6561fff57729b3b5935d8596ce
third_party/fillp @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/fillp-sheep @ daed0c84f98531712514b2231f43ec6901114ffe
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ 6f038ed31259d366f9840f65b82cbe8f464b1b39
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quirk @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
  M src/ScreamClient
  M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
```

test from 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	95.81	111.68	0.80
Copa	10	141.36	114.85	0.75
TCP Cubic	10	84.97	124.30	0.81
FillP	10	791.03	270.72	3.44
FillP-Sheep	10	780.69	215.63	2.76
Indigo	10	180.97	111.54	0.80
LEDBAT	10	6.92	112.51	1.31
PCC-Allegro	10	494.27	240.66	3.75
PCC-Expr	10	228.79	154.97	1.68
QUIC Cubic	1	70.74	111.36	0.99
SCReAM	10	0.22	111.14	0.74
Sprout	10	0.19	111.15	0.65
TaoVA-100x	10	180.17	111.26	0.80
TCP Vegas	10	62.40	119.23	0.61
Verus	10	193.03	170.69	1.61
PCC-Vivace	10	360.28	131.48	1.23
WebRTC media	10	1.85	111.15	0.86

Run 1: Statistics of TCP BBR

Start at: 2018-07-24 20:36:15

End at: 2018-07-24 20:36:45

Local clock offset: -0.248 ms

Remote clock offset: 0.274 ms

Below is generated by plot.py at 2018-07-25 00:16:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.43 Mbit/s

95th percentile per-packet one-way delay: 111.119 ms

Loss rate: 0.83%

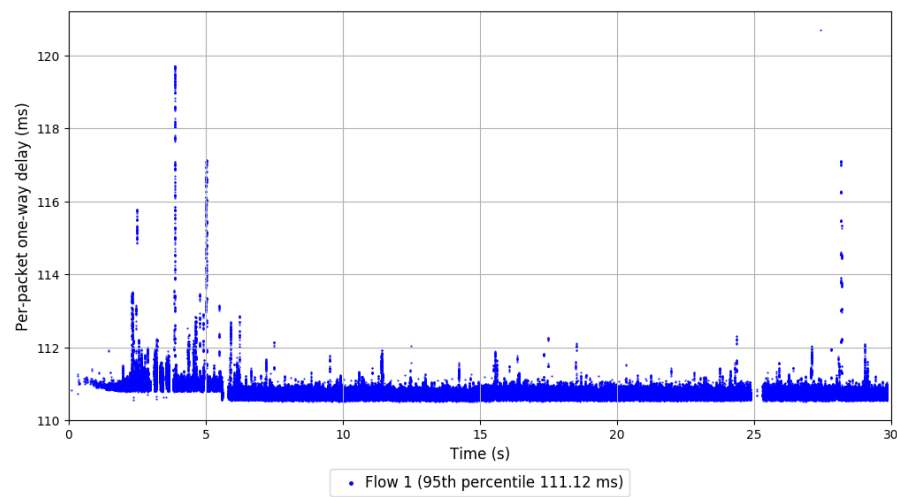
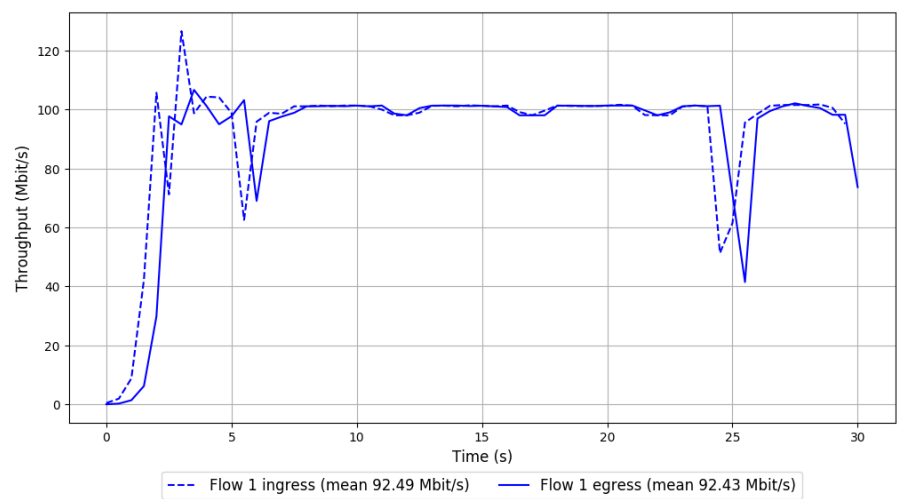
-- Flow 1:

Average throughput: 92.43 Mbit/s

95th percentile per-packet one-way delay: 111.119 ms

Loss rate: 0.83%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-07-24 20:58:37

End at: 2018-07-24 20:59:08

Local clock offset: -0.169 ms

Remote clock offset: 0.348 ms

Below is generated by plot.py at 2018-07-25 00:16:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 101.57 Mbit/s

95th percentile per-packet one-way delay: 111.933 ms

Loss rate: 0.77%

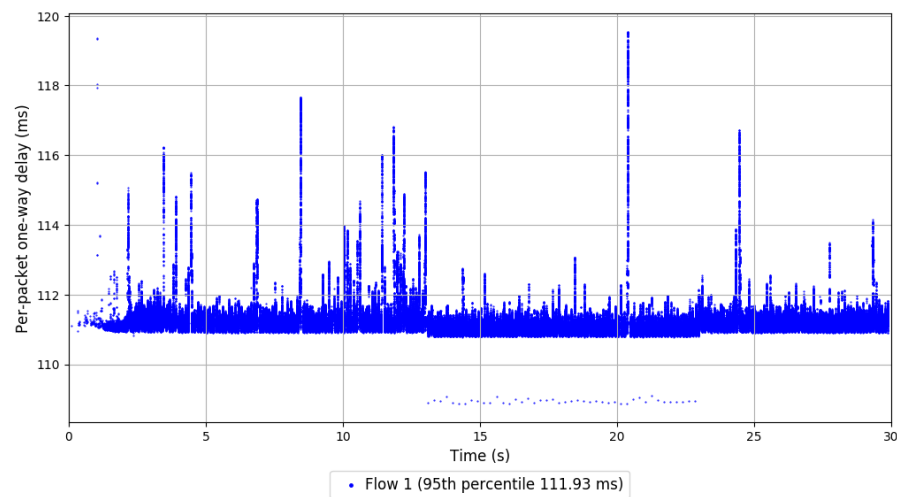
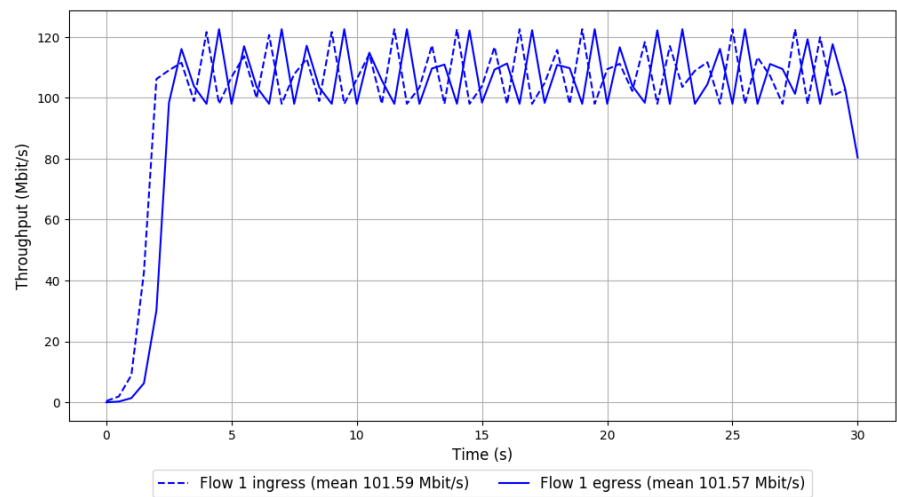
-- Flow 1:

Average throughput: 101.57 Mbit/s

95th percentile per-packet one-way delay: 111.933 ms

Loss rate: 0.77%

Run 2: Report of TCP BBR — Data Link

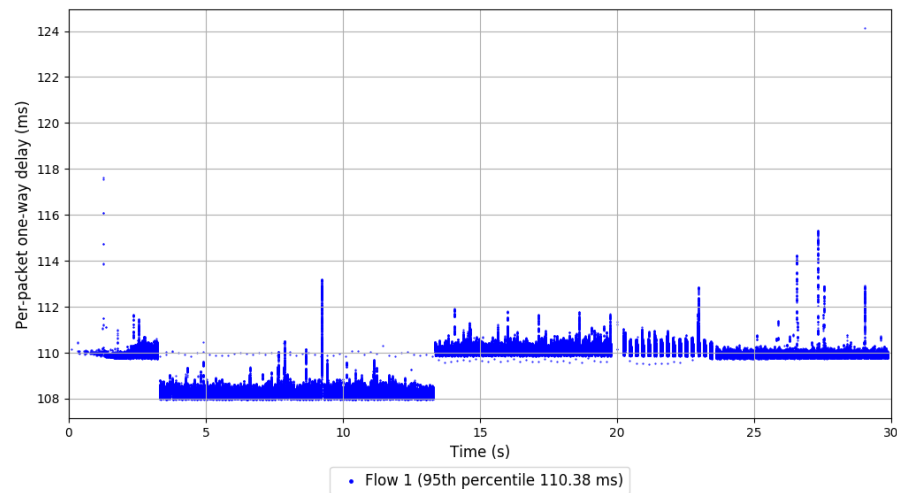
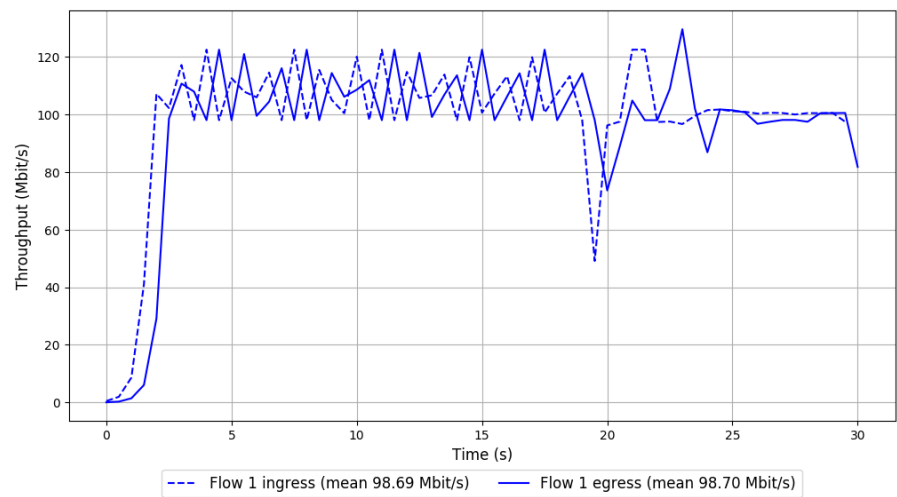


Run 3: Statistics of TCP BBR

Start at: 2018-07-24 21:21:17
End at: 2018-07-24 21:21:47
Local clock offset: -1.625 ms
Remote clock offset: -0.069 ms

Below is generated by plot.py at 2018-07-25 00:16:30
Datalink statistics
-- Total of 1 flow:
Average throughput: 98.70 Mbit/s
95th percentile per-packet one-way delay: 110.381 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 98.70 Mbit/s
95th percentile per-packet one-way delay: 110.381 ms
Loss rate: 0.73%

Run 3: Report of TCP BBR — Data Link

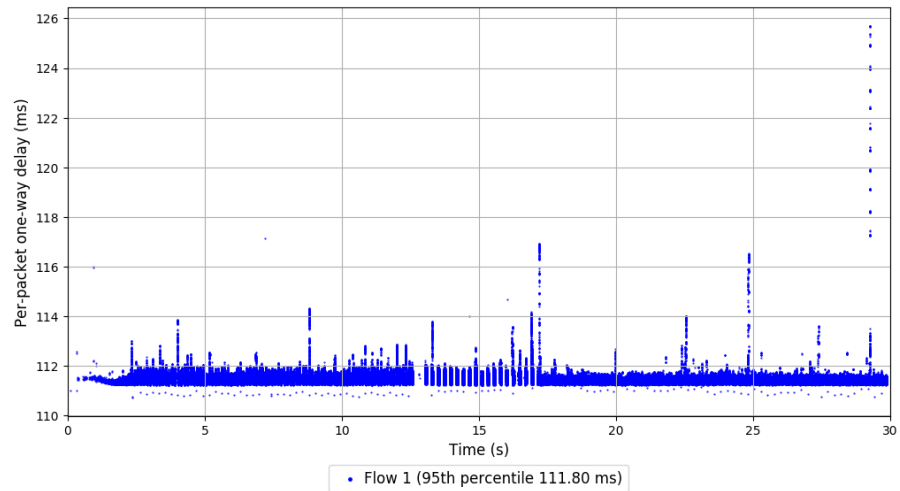
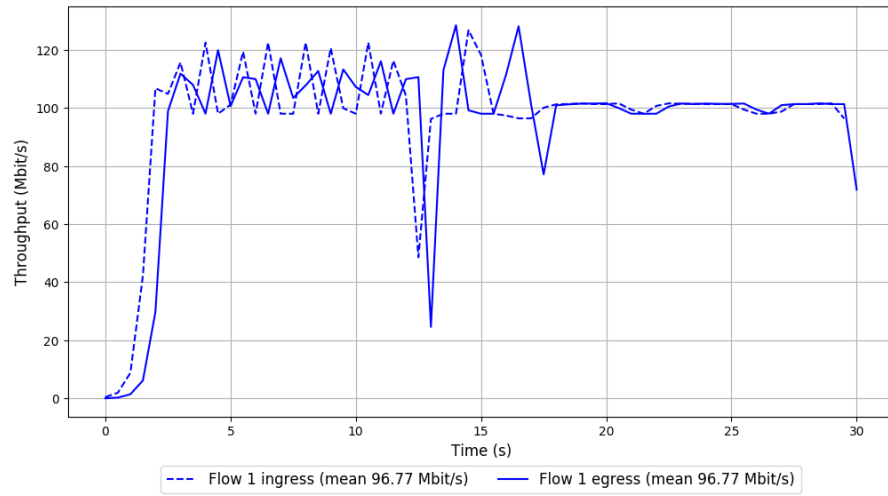


Run 4: Statistics of TCP BBR

Start at: 2018-07-24 21:43:37
End at: 2018-07-24 21:44:07
Local clock offset: -0.29 ms
Remote clock offset: -0.001 ms

Below is generated by plot.py at 2018-07-25 00:16:30
Datalink statistics
-- Total of 1 flow:
Average throughput: 96.77 Mbit/s
95th percentile per-packet one-way delay: 111.799 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 96.77 Mbit/s
95th percentile per-packet one-way delay: 111.799 ms
Loss rate: 0.75%

Run 4: Report of TCP BBR — Data Link

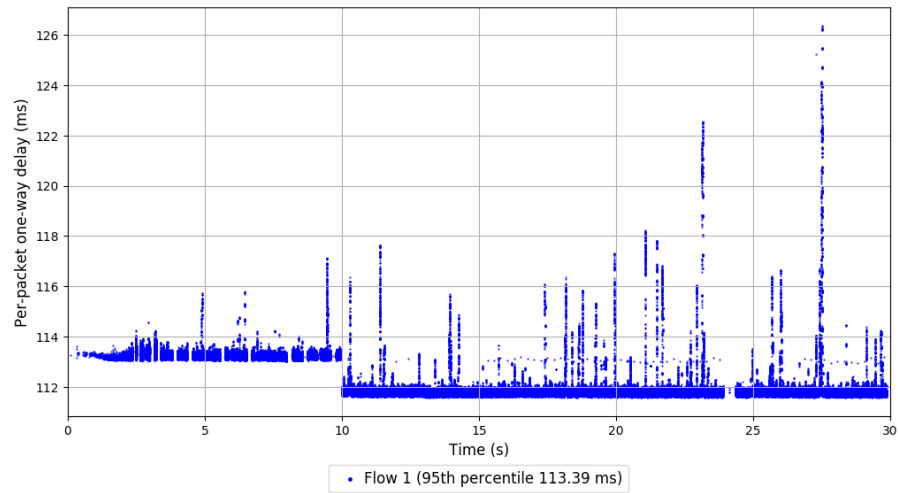
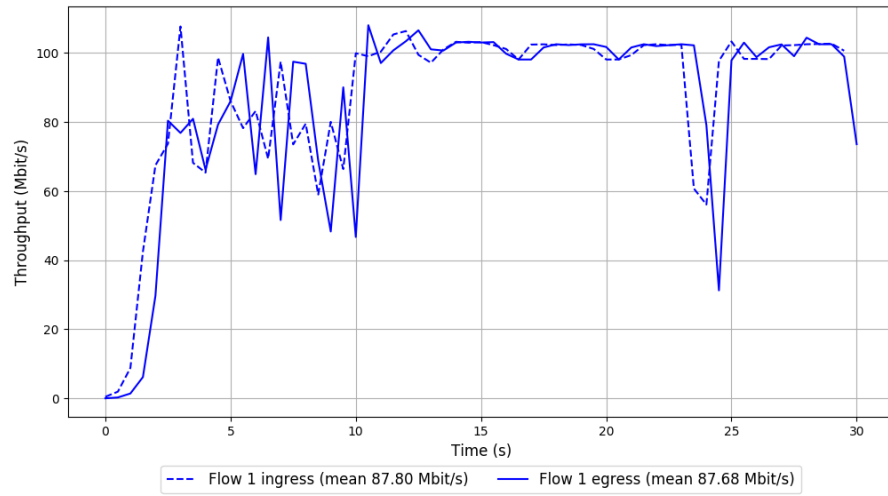


Run 5: Statistics of TCP BBR

Start at: 2018-07-24 22:06:11
End at: 2018-07-24 22:06:41
Local clock offset: 1.179 ms
Remote clock offset: -0.338 ms

Below is generated by plot.py at 2018-07-25 00:16:30
Datalink statistics
-- Total of 1 flow:
Average throughput: 87.68 Mbit/s
95th percentile per-packet one-way delay: 113.388 ms
Loss rate: 0.93%
-- Flow 1:
Average throughput: 87.68 Mbit/s
95th percentile per-packet one-way delay: 113.388 ms
Loss rate: 0.93%

Run 5: Report of TCP BBR — Data Link

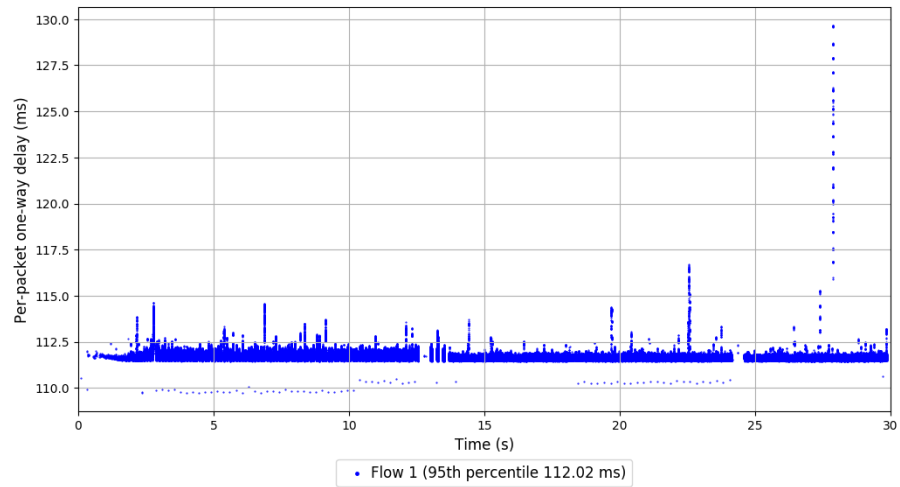
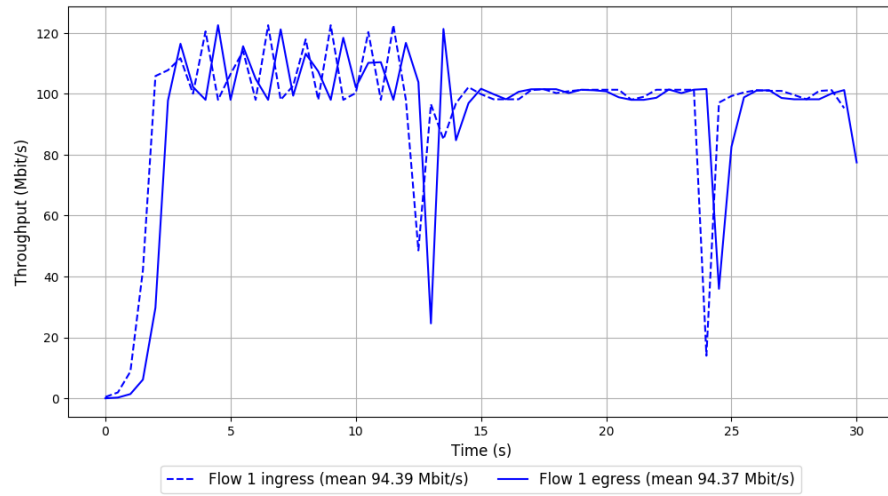


Run 6: Statistics of TCP BBR

Start at: 2018-07-24 22:28:40
End at: 2018-07-24 22:29:10
Local clock offset: -0.003 ms
Remote clock offset: -0.341 ms

Below is generated by plot.py at 2018-07-25 00:16:30
Datalink statistics
-- Total of 1 flow:
Average throughput: 94.37 Mbit/s
95th percentile per-packet one-way delay: 112.018 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 94.37 Mbit/s
95th percentile per-packet one-way delay: 112.018 ms
Loss rate: 0.76%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-07-24 22:51:07

End at: 2018-07-24 22:51:37

Local clock offset: 0.123 ms

Remote clock offset: 0.002 ms

Below is generated by plot.py at 2018-07-25 00:16:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.29 Mbit/s

95th percentile per-packet one-way delay: 111.777 ms

Loss rate: 0.82%

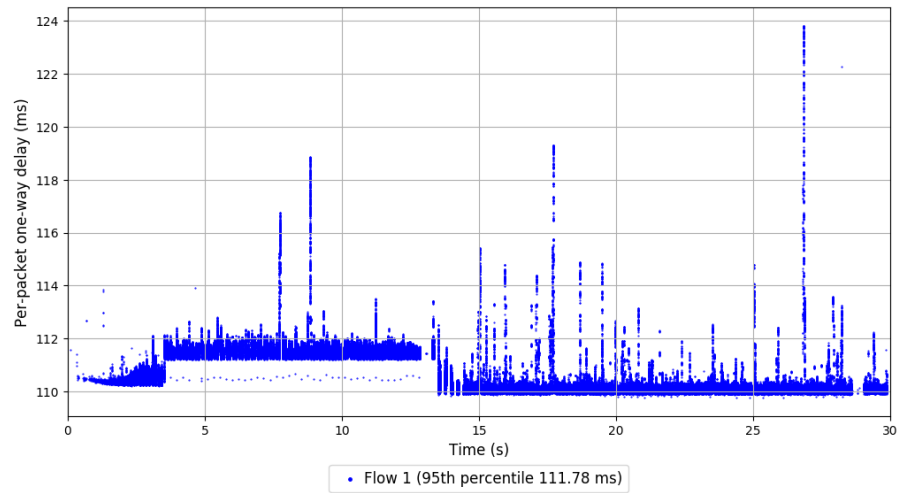
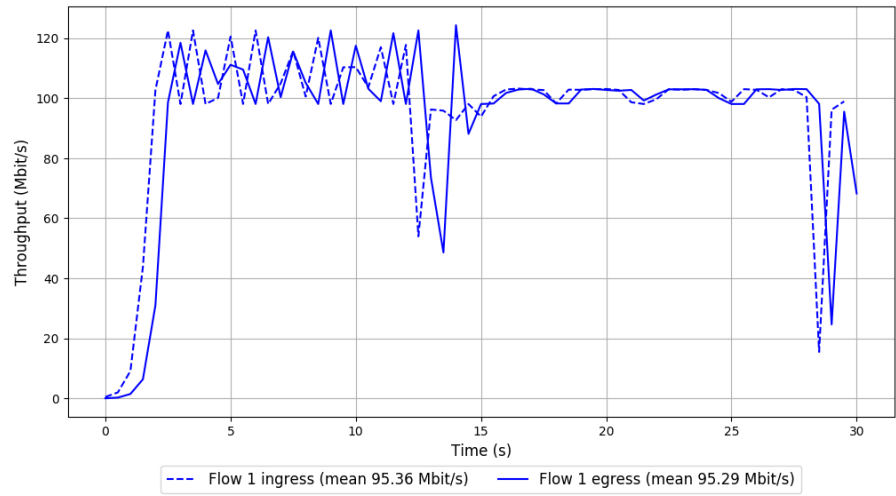
-- Flow 1:

Average throughput: 95.29 Mbit/s

95th percentile per-packet one-way delay: 111.777 ms

Loss rate: 0.82%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-07-24 23:14:03

End at: 2018-07-24 23:14:33

Local clock offset: 0.159 ms

Remote clock offset: -0.384 ms

Below is generated by plot.py at 2018-07-25 00:16:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.39 Mbit/s

95th percentile per-packet one-way delay: 112.298 ms

Loss rate: 0.85%

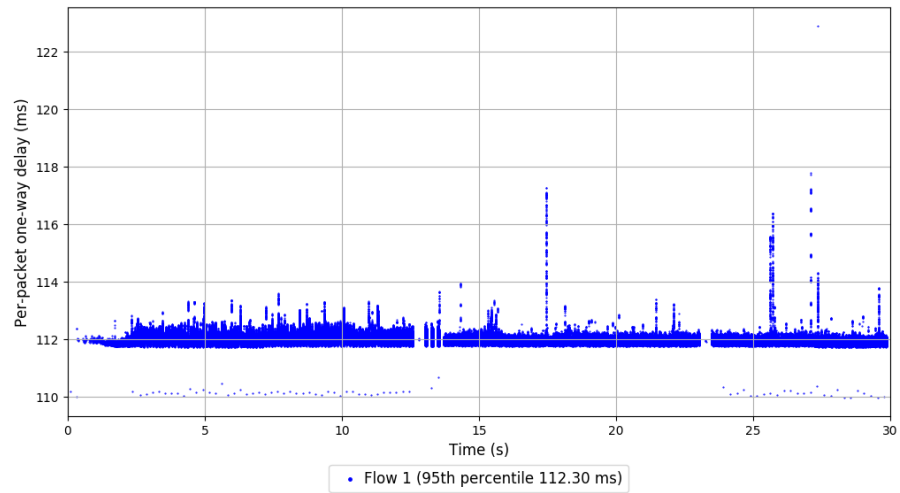
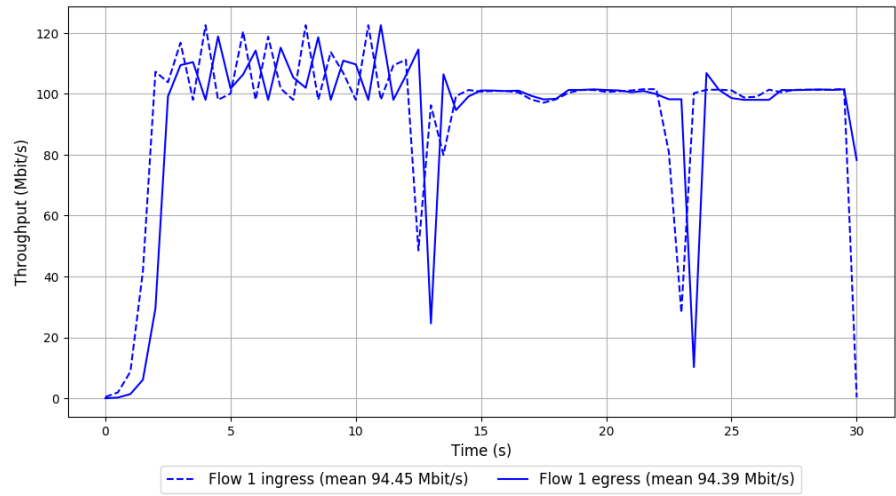
-- Flow 1:

Average throughput: 94.39 Mbit/s

95th percentile per-packet one-way delay: 112.298 ms

Loss rate: 0.85%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-07-24 23:36:50

End at: 2018-07-24 23:37:20

Local clock offset: -1.239 ms

Remote clock offset: -0.06 ms

Below is generated by plot.py at 2018-07-25 00:17:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 99.75 Mbit/s

95th percentile per-packet one-way delay: 110.623 ms

Loss rate: 0.73%

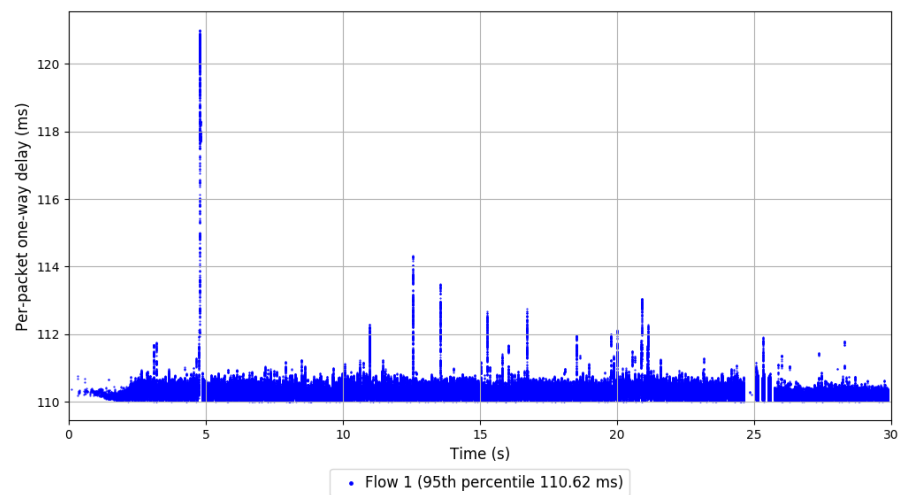
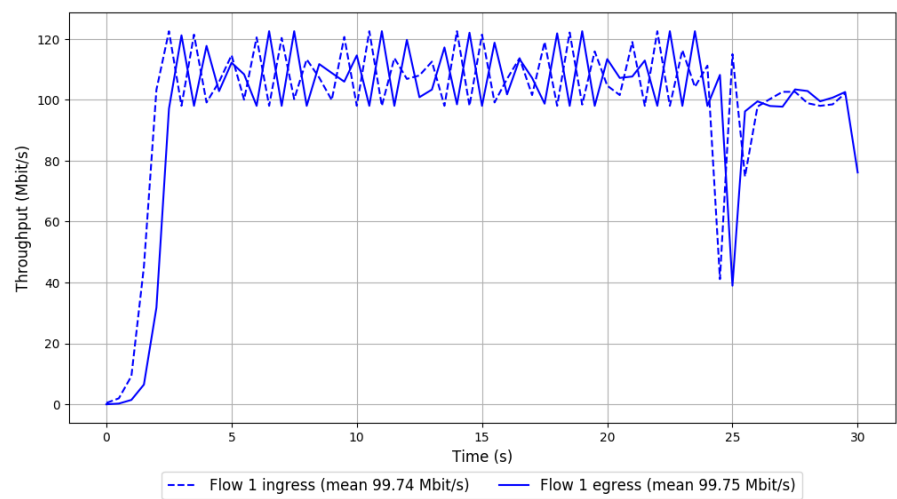
-- Flow 1:

Average throughput: 99.75 Mbit/s

95th percentile per-packet one-way delay: 110.623 ms

Loss rate: 0.73%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-07-24 23:59:45

End at: 2018-07-25 00:00:15

Local clock offset: 0.24 ms

Remote clock offset: 0.025 ms

Below is generated by plot.py at 2018-07-25 00:17:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.19 Mbit/s

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

Loss rate: 0.81%

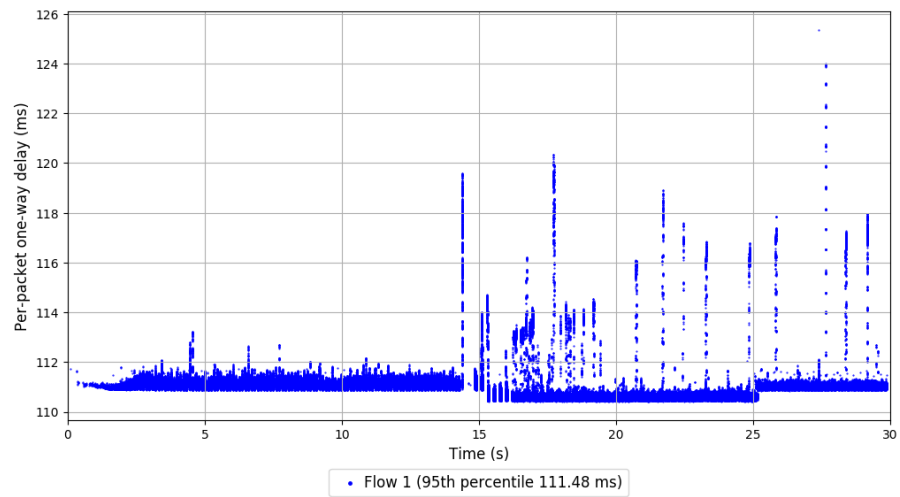
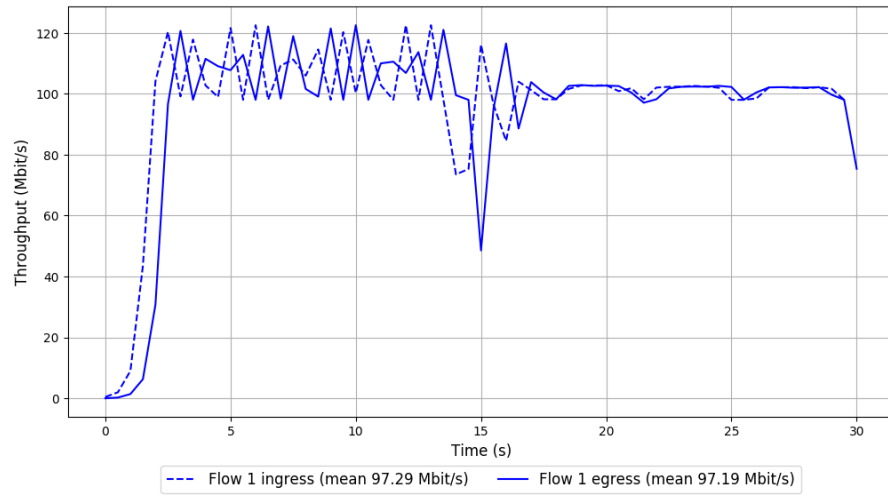
-- Flow 1:

Average throughput: 97.19 Mbit/s

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

Loss rate: 0.81%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2018-07-24 20:29:55

End at: 2018-07-24 20:30:25

Local clock offset: -1.524 ms

Remote clock offset: 0.002 ms

Below is generated by plot.py at 2018-07-25 00:20:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 157.52 Mbit/s

95th percentile per-packet one-way delay: 119.319 ms

Loss rate: 0.56%

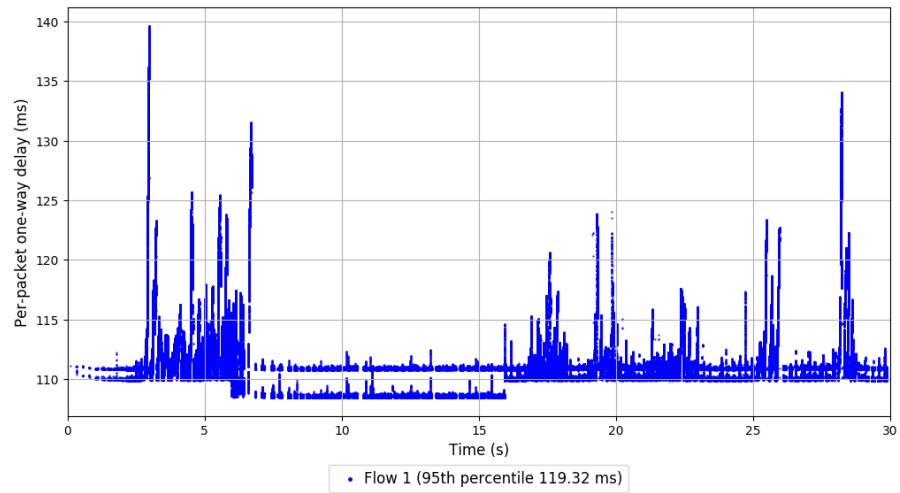
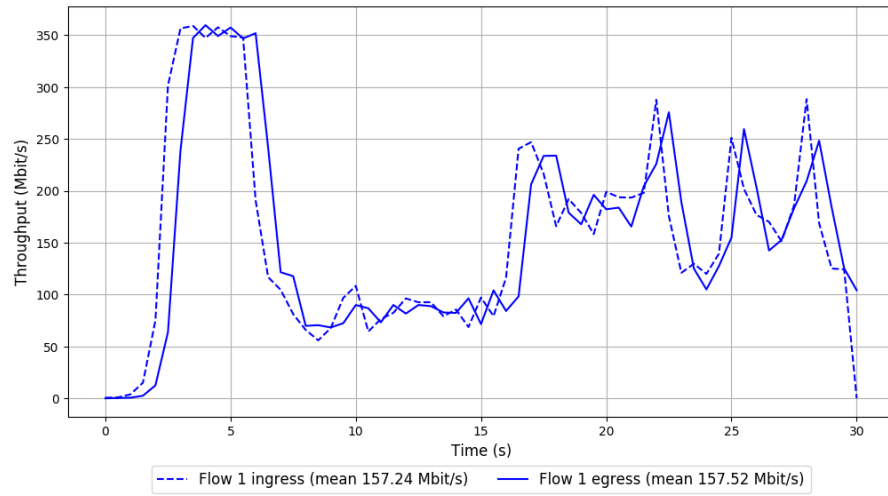
-- Flow 1:

Average throughput: 157.52 Mbit/s

95th percentile per-packet one-way delay: 119.319 ms

Loss rate: 0.56%

Run 1: Report of Copa — Data Link

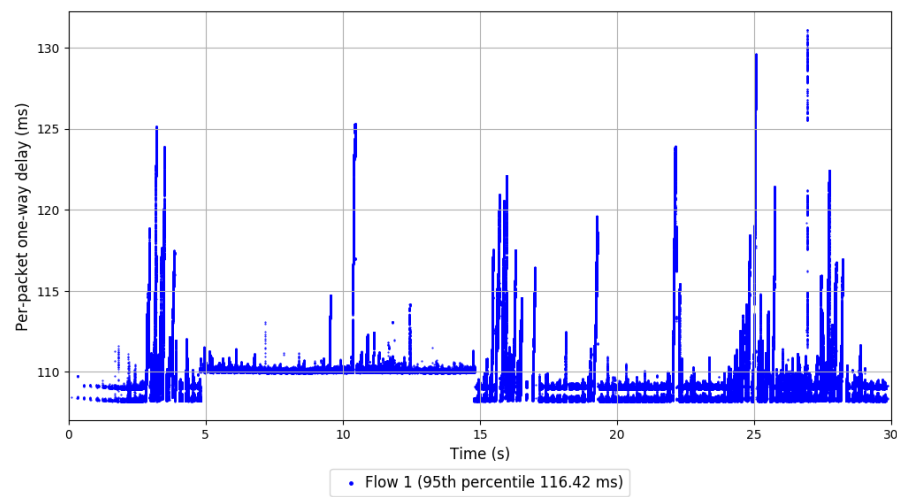
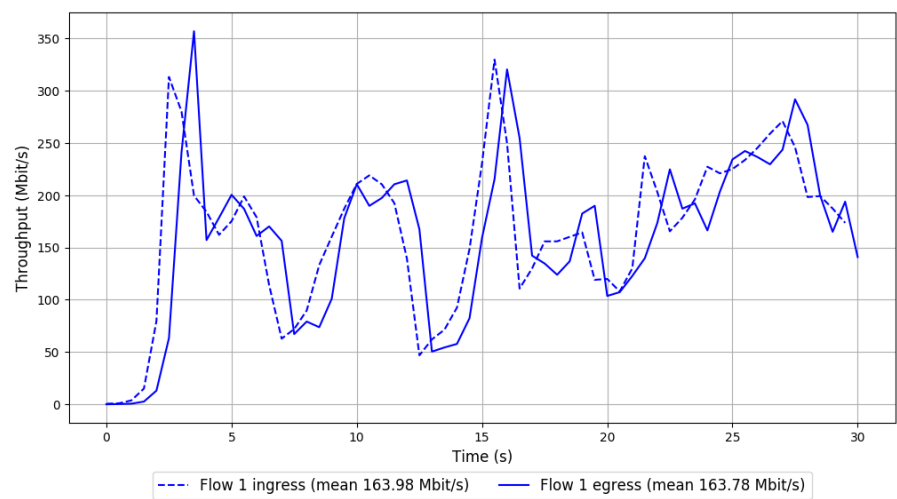


Run 2: Statistics of Copa

Start at: 2018-07-24 20:52:26
End at: 2018-07-24 20:52:56
Local clock offset: -1.45 ms
Remote clock offset: -0.351 ms

Below is generated by plot.py at 2018-07-25 00:21:03
Datalink statistics
-- Total of 1 flow:
Average throughput: 163.78 Mbit/s
95th percentile per-packet one-way delay: 116.425 ms
Loss rate: 0.90%
-- Flow 1:
Average throughput: 163.78 Mbit/s
95th percentile per-packet one-way delay: 116.425 ms
Loss rate: 0.90%

Run 2: Report of Copa — Data Link

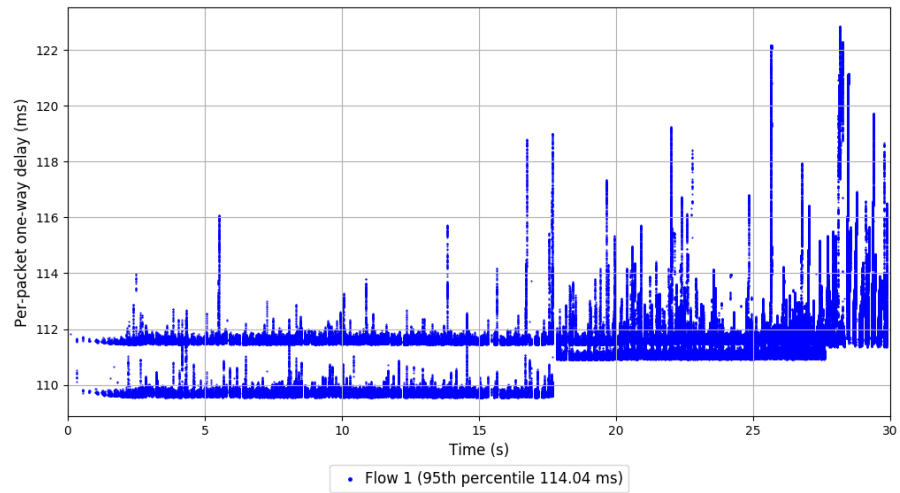
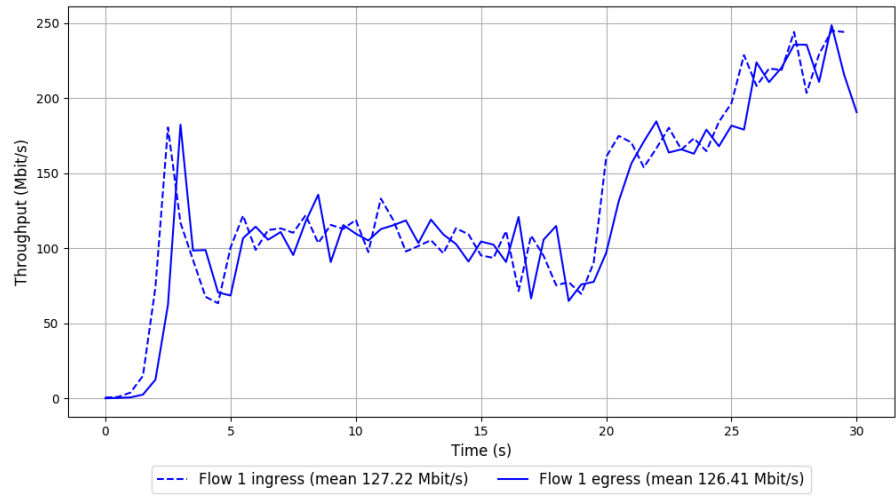


Run 3: Statistics of Copa

Start at: 2018-07-24 21:15:03
End at: 2018-07-24 21:15:33
Local clock offset: -0.352 ms
Remote clock offset: -0.411 ms

Below is generated by plot.py at 2018-07-25 00:21:03
Datalink statistics
-- Total of 1 flow:
Average throughput: 126.41 Mbit/s
95th percentile per-packet one-way delay: 114.037 ms
Loss rate: 1.38%
-- Flow 1:
Average throughput: 126.41 Mbit/s
95th percentile per-packet one-way delay: 114.037 ms
Loss rate: 1.38%

Run 3: Report of Copa — Data Link

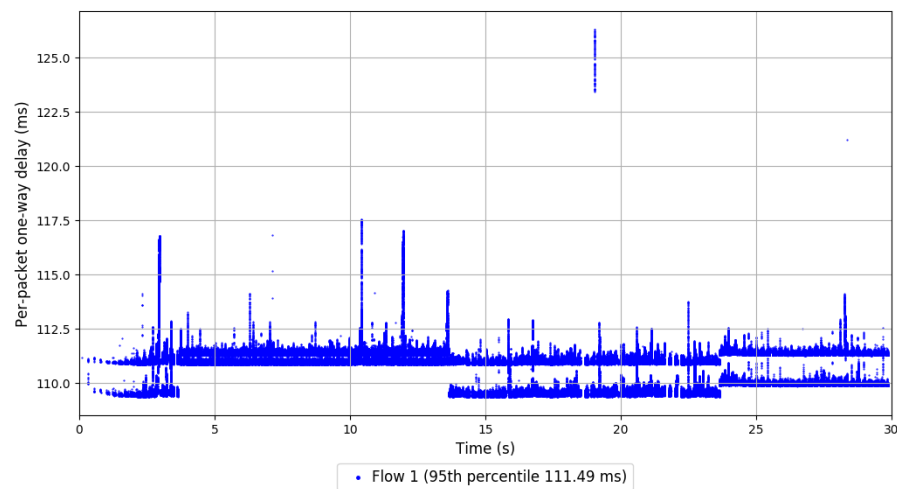
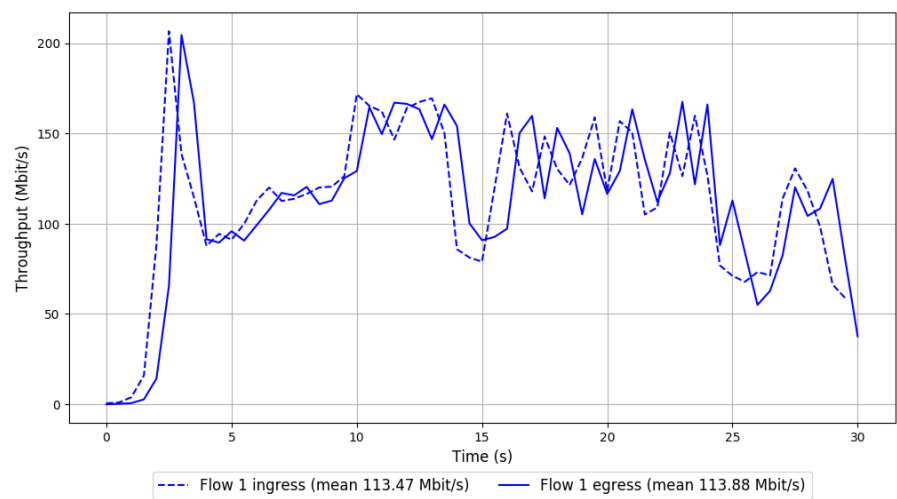


Run 4: Statistics of Copa

Start at: 2018-07-24 21:37:27
End at: 2018-07-24 21:37:57
Local clock offset: -0.221 ms
Remote clock offset: -0.021 ms

Below is generated by plot.py at 2018-07-25 00:21:03
Datalink statistics
-- Total of 1 flow:
Average throughput: 113.88 Mbit/s
95th percentile per-packet one-way delay: 111.492 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 113.88 Mbit/s
95th percentile per-packet one-way delay: 111.492 ms
Loss rate: 0.38%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-07-24 21:59:56

End at: 2018-07-24 22:00:26

Local clock offset: -0.212 ms

Remote clock offset: 0.375 ms

Below is generated by plot.py at 2018-07-25 00:21:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 156.95 Mbit/s

95th percentile per-packet one-way delay: 117.682 ms

Loss rate: 1.01%

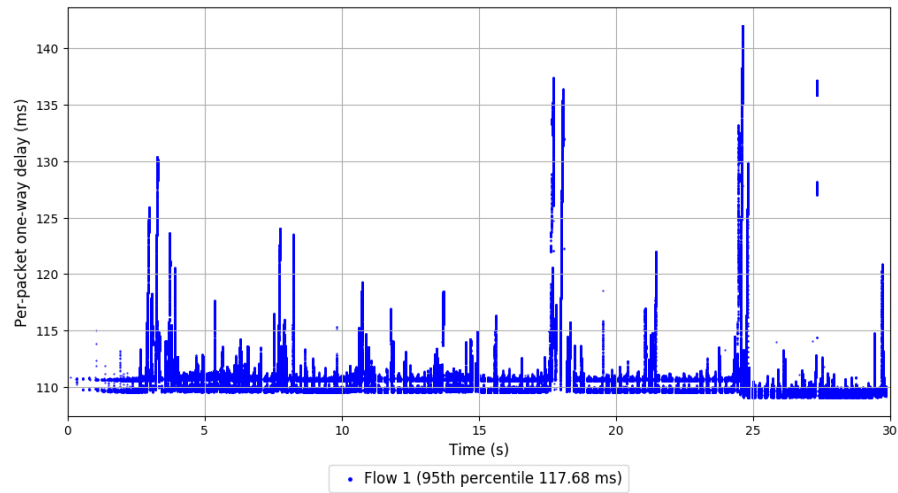
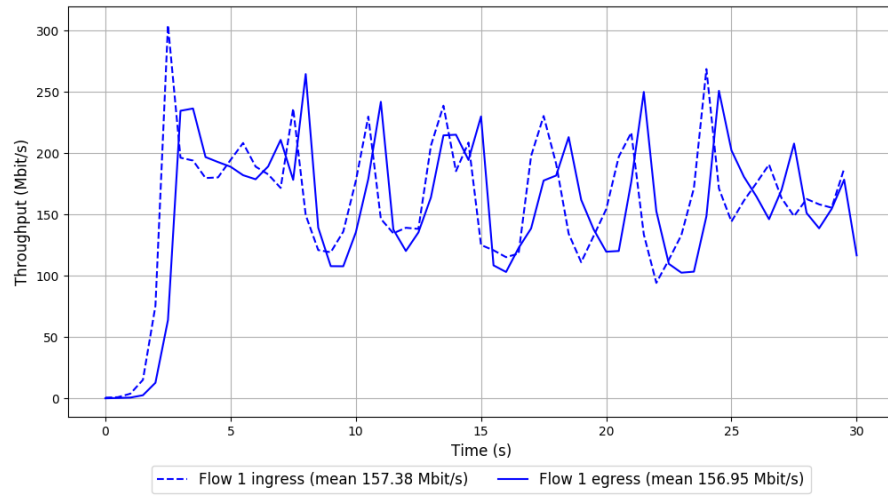
-- Flow 1:

Average throughput: 156.95 Mbit/s

95th percentile per-packet one-way delay: 117.682 ms

Loss rate: 1.01%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-07-24 22:22:32

End at: 2018-07-24 22:23:02

Local clock offset: -1.167 ms

Remote clock offset: 0.01 ms

Below is generated by plot.py at 2018-07-25 00:21:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 115.87 Mbit/s

95th percentile per-packet one-way delay: 112.971 ms

Loss rate: 0.33%

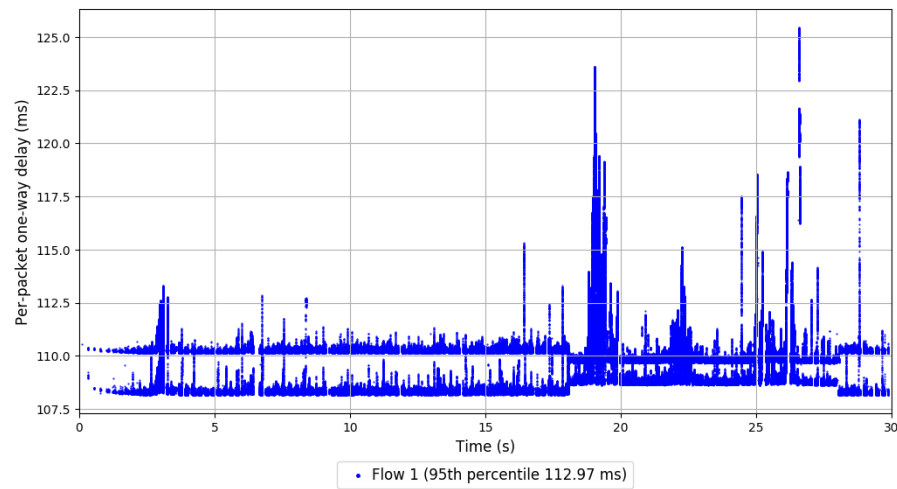
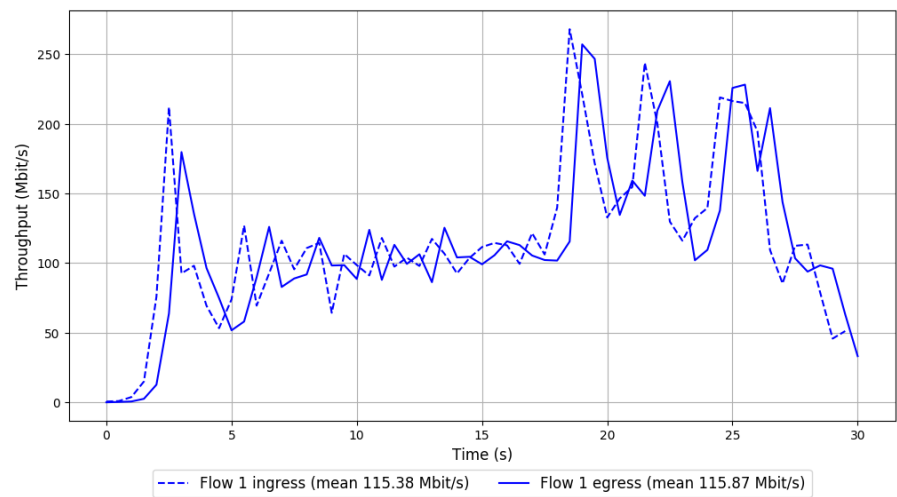
-- Flow 1:

Average throughput: 115.87 Mbit/s

95th percentile per-packet one-way delay: 112.971 ms

Loss rate: 0.33%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-07-24 22:44:58

End at: 2018-07-24 22:45:28

Local clock offset: 0.422 ms

Remote clock offset: 0.38 ms

Below is generated by plot.py at 2018-07-25 00:21:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 100.75 Mbit/s

95th percentile per-packet one-way delay: 111.456 ms

Loss rate: 0.42%

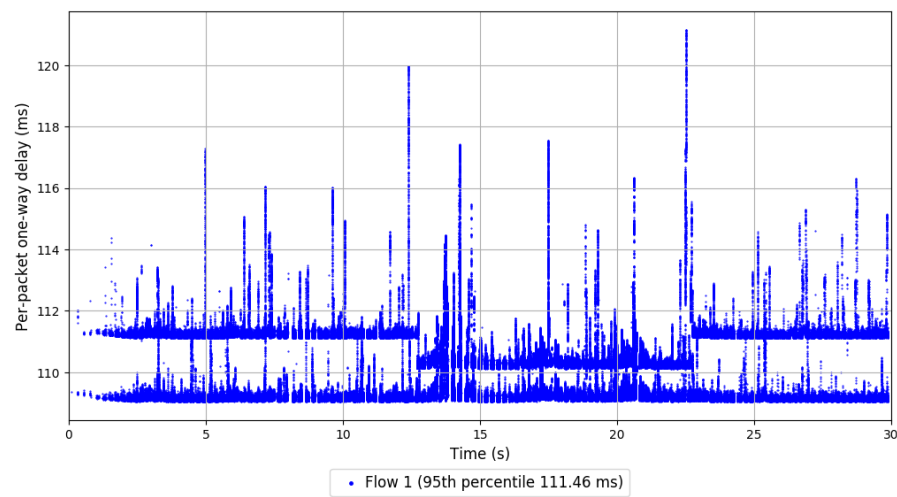
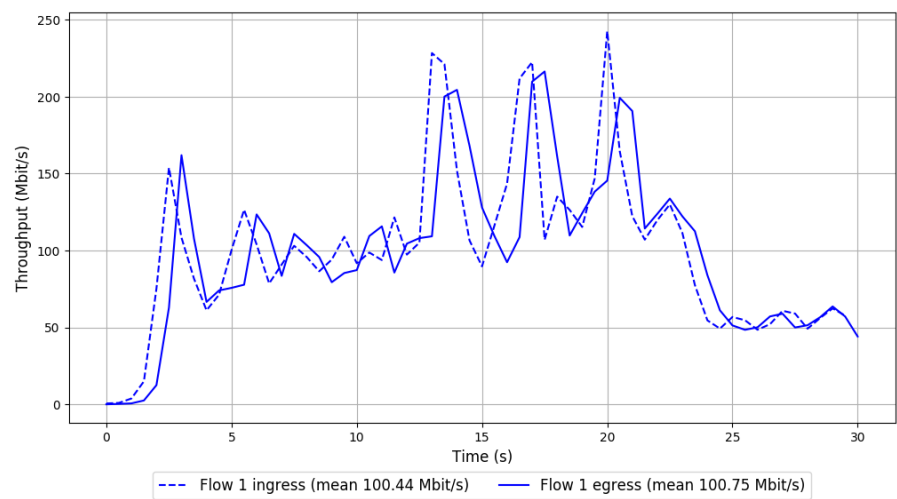
-- Flow 1:

Average throughput: 100.75 Mbit/s

95th percentile per-packet one-way delay: 111.456 ms

Loss rate: 0.42%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-07-24 23:07:49

End at: 2018-07-24 23:08:19

Local clock offset: 1.511 ms

Remote clock offset: 0.006 ms

Below is generated by plot.py at 2018-07-25 00:23:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 170.43 Mbit/s

95th percentile per-packet one-way delay: 118.430 ms

Loss rate: 1.42%

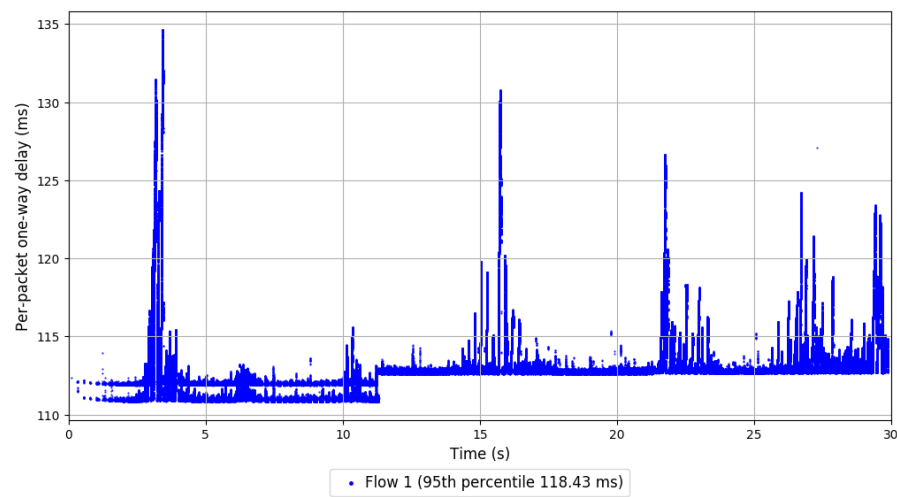
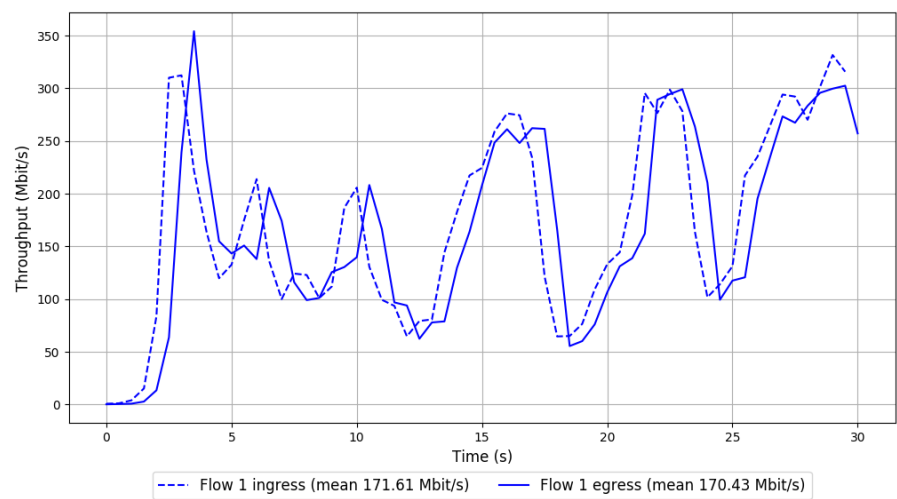
-- Flow 1:

Average throughput: 170.43 Mbit/s

95th percentile per-packet one-way delay: 118.430 ms

Loss rate: 1.42%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-07-24 23:30:41

End at: 2018-07-24 23:31:11

Local clock offset: 0.023 ms

Remote clock offset: 0.01 ms

Below is generated by plot.py at 2018-07-25 00:23:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 98.59 Mbit/s

95th percentile per-packet one-way delay: 111.470 ms

Loss rate: 1.00%

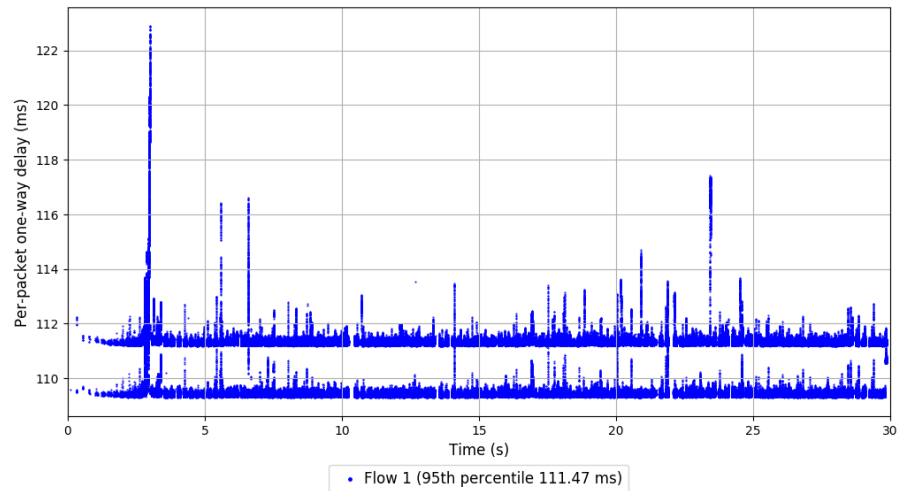
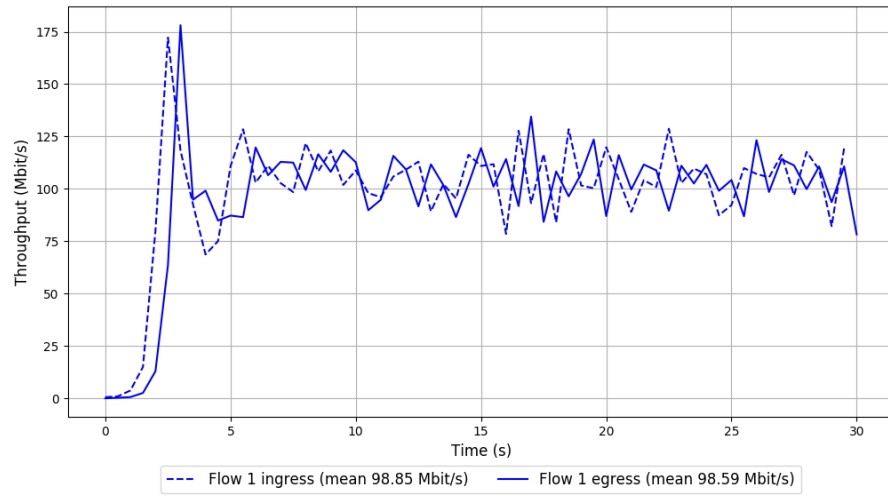
-- Flow 1:

Average throughput: 98.59 Mbit/s

95th percentile per-packet one-way delay: 111.470 ms

Loss rate: 1.00%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-07-24 23:53:24

End at: 2018-07-24 23:53:54

Local clock offset: -1.225 ms

Remote clock offset: -0.335 ms

Below is generated by plot.py at 2018-07-25 00:25:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 209.39 Mbit/s

95th percentile per-packet one-way delay: 115.241 ms

Loss rate: 0.09%

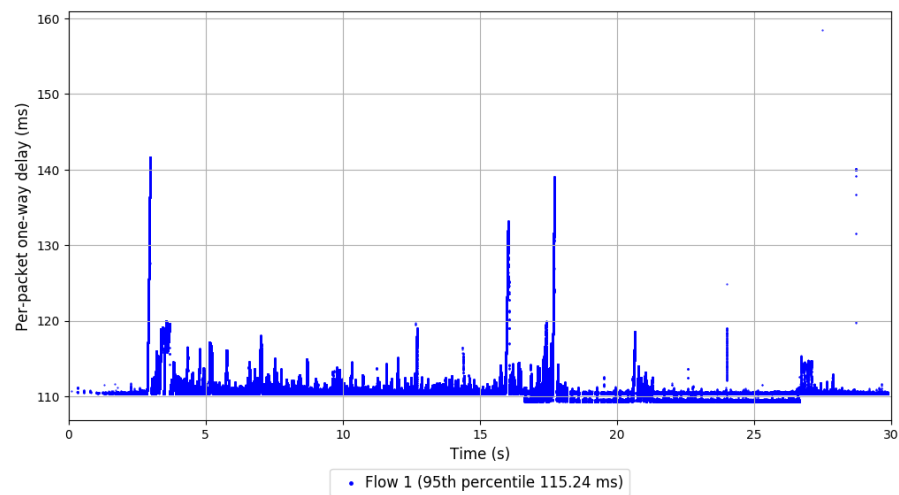
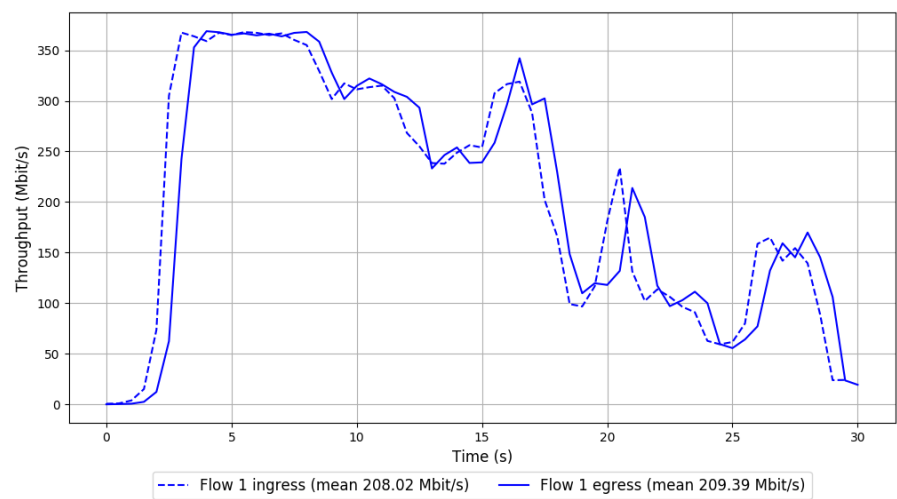
-- Flow 1:

Average throughput: 209.39 Mbit/s

95th percentile per-packet one-way delay: 115.241 ms

Loss rate: 0.09%

Run 10: Report of Copa — Data Link

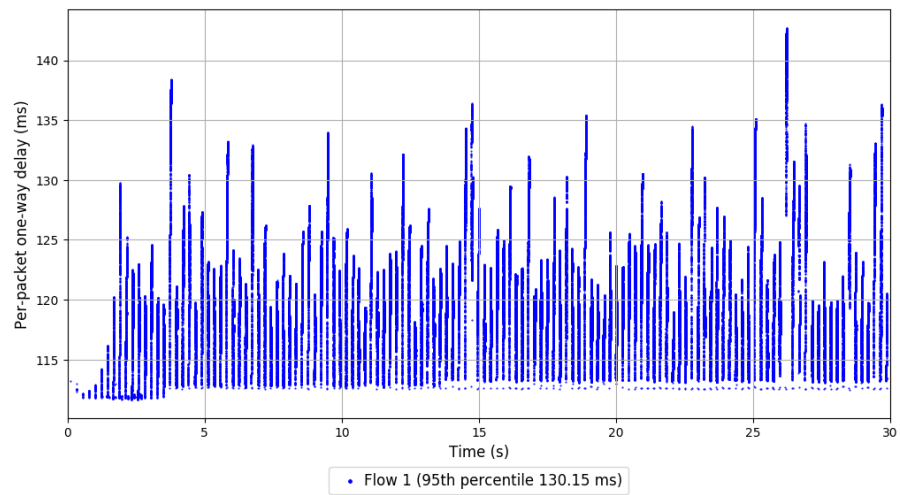
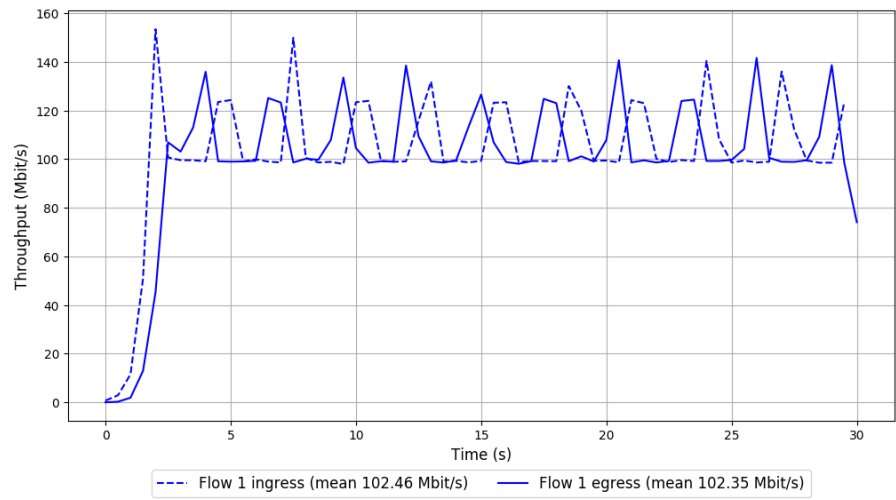


Run 1: Statistics of TCP Cubic

Start at: 2018-07-24 20:33:37
End at: 2018-07-24 20:34:07
Local clock offset: 1.199 ms
Remote clock offset: -0.397 ms

Below is generated by plot.py at 2018-07-25 00:25:48
Datalink statistics
-- Total of 1 flow:
Average throughput: 102.35 Mbit/s
95th percentile per-packet one-way delay: 130.149 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 102.35 Mbit/s
95th percentile per-packet one-way delay: 130.149 ms
Loss rate: 0.80%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-07-24 20:56:05

End at: 2018-07-24 20:56:35

Local clock offset: -0.373 ms

Remote clock offset: 0.331 ms

Below is generated by plot.py at 2018-07-25 00:25:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 36.31 Mbit/s

95th percentile per-packet one-way delay: 123.823 ms

Loss rate: 0.81%

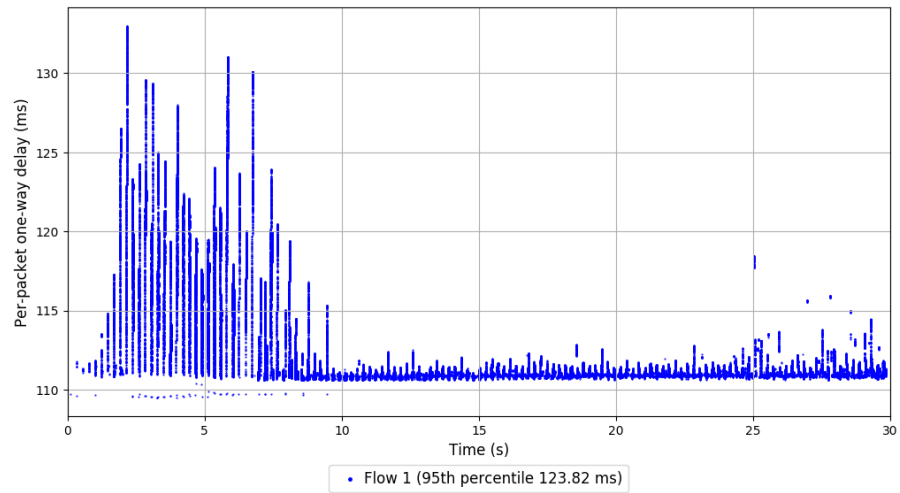
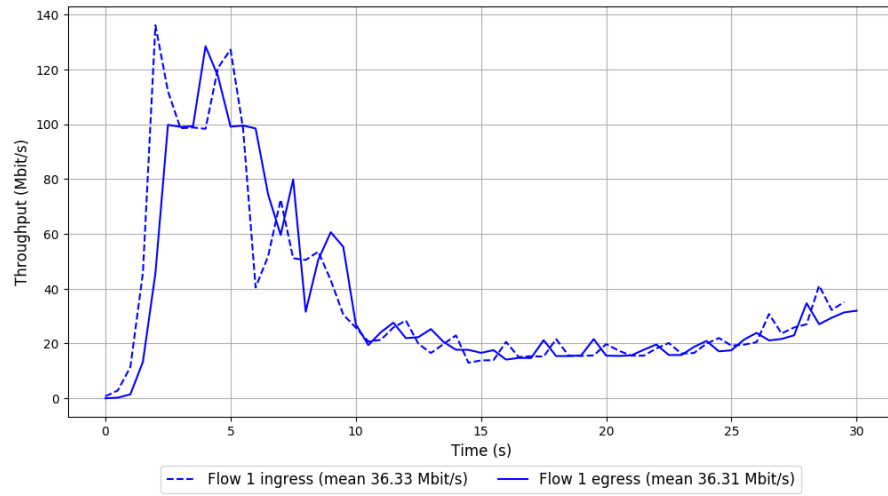
-- Flow 1:

Average throughput: 36.31 Mbit/s

95th percentile per-packet one-way delay: 123.823 ms

Loss rate: 0.81%

Run 2: Report of TCP Cubic — Data Link

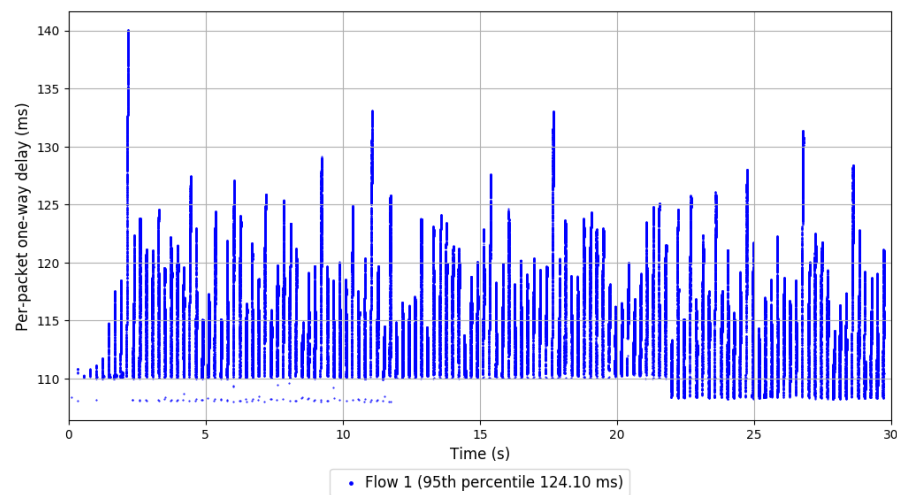
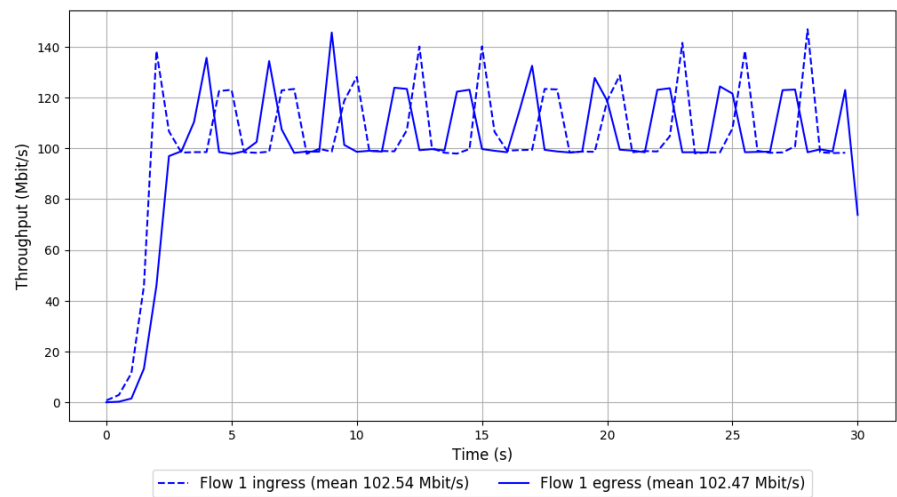


Run 3: Statistics of TCP Cubic

Start at: 2018-07-24 21:18:39
End at: 2018-07-24 21:19:09
Local clock offset: -1.483 ms
Remote clock offset: -0.096 ms

Below is generated by plot.py at 2018-07-25 00:25:48
Datalink statistics
-- Total of 1 flow:
Average throughput: 102.47 Mbit/s
95th percentile per-packet one-way delay: 124.097 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 102.47 Mbit/s
95th percentile per-packet one-way delay: 124.097 ms
Loss rate: 0.80%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-07-24 21:41:05

End at: 2018-07-24 21:41:35

Local clock offset: -0.34 ms

Remote clock offset: 0.002 ms

Below is generated by plot.py at 2018-07-25 00:25:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.53 Mbit/s

95th percentile per-packet one-way delay: 122.882 ms

Loss rate: 1.06%

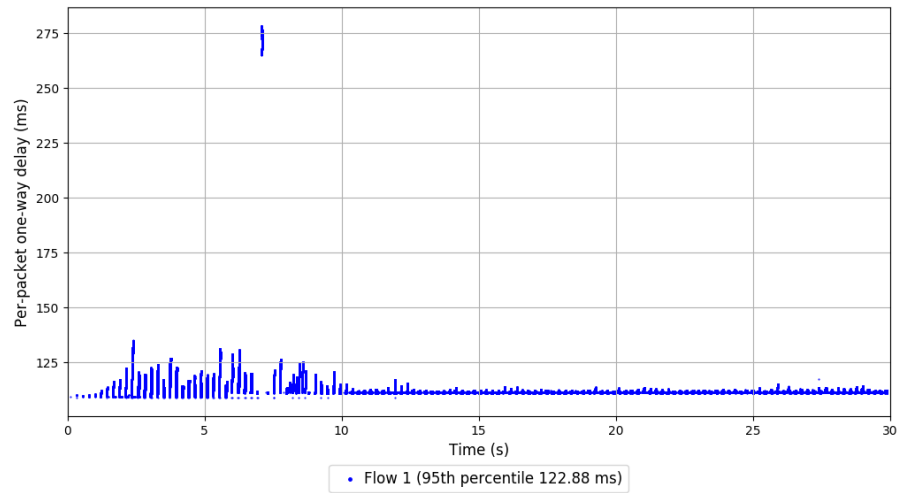
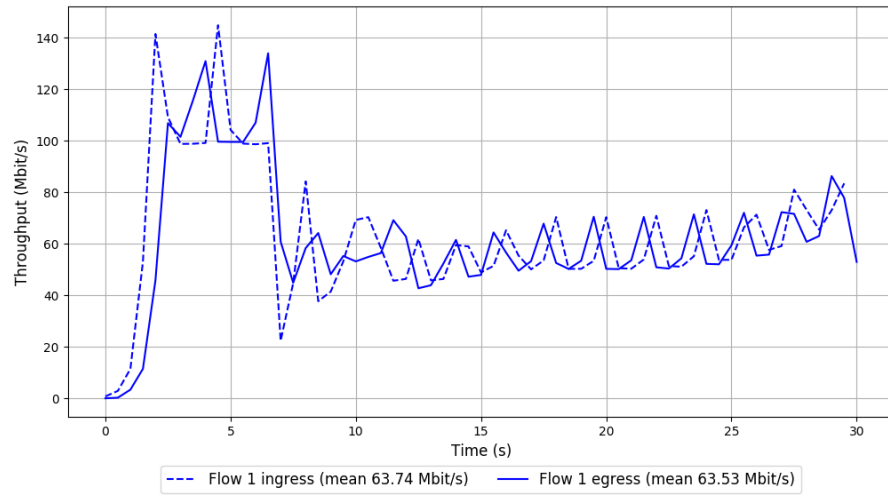
-- Flow 1:

Average throughput: 63.53 Mbit/s

95th percentile per-packet one-way delay: 122.882 ms

Loss rate: 1.06%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-07-24 22:03:36

End at: 2018-07-24 22:04:06

Local clock offset: -0.377 ms

Remote clock offset: 0.048 ms

Below is generated by plot.py at 2018-07-25 00:25:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.34 Mbit/s

95th percentile per-packet one-way delay: 118.659 ms

Loss rate: 0.65%

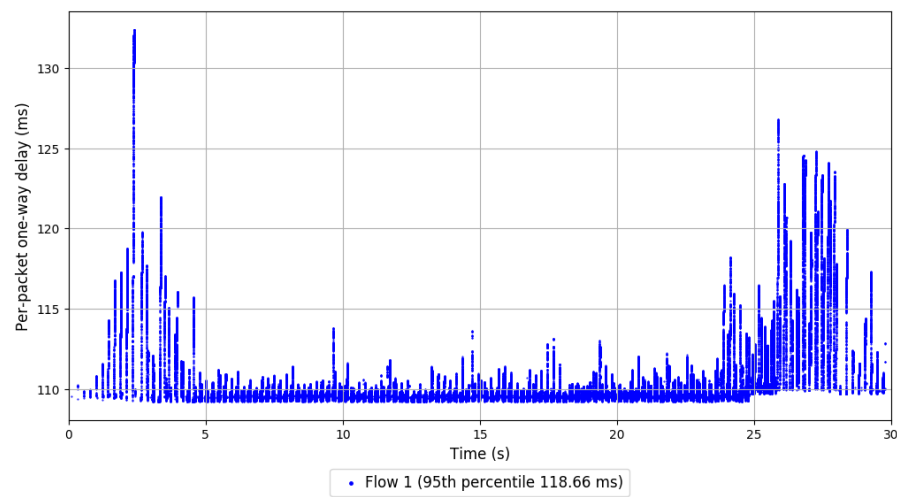
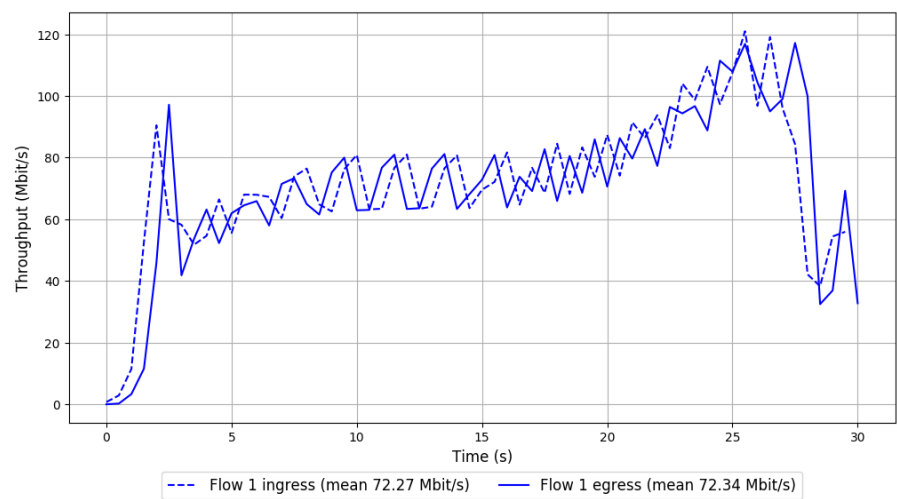
-- Flow 1:

Average throughput: 72.34 Mbit/s

95th percentile per-packet one-way delay: 118.659 ms

Loss rate: 0.65%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-07-24 22:26:10

End at: 2018-07-24 22:26:40

Local clock offset: -1.344 ms

Remote clock offset: 0.355 ms

Below is generated by plot.py at 2018-07-25 00:25:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 103.09 Mbit/s

95th percentile per-packet one-way delay: 125.331 ms

Loss rate: 0.80%

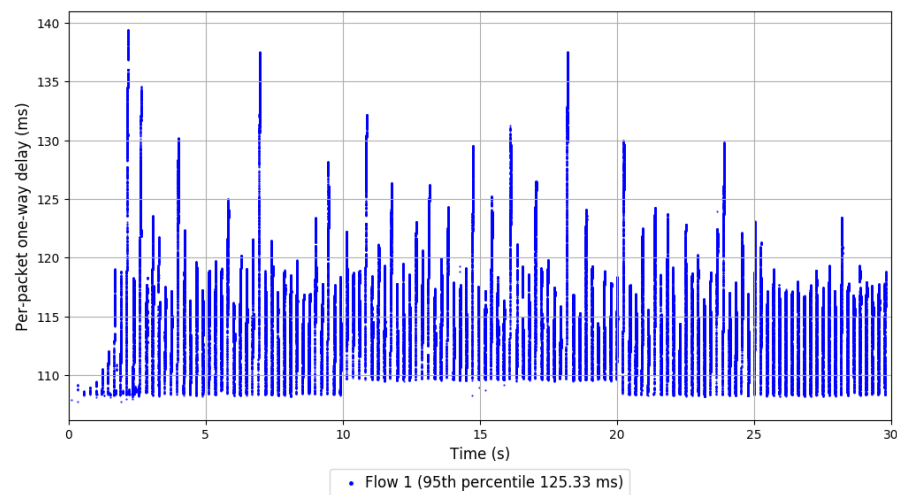
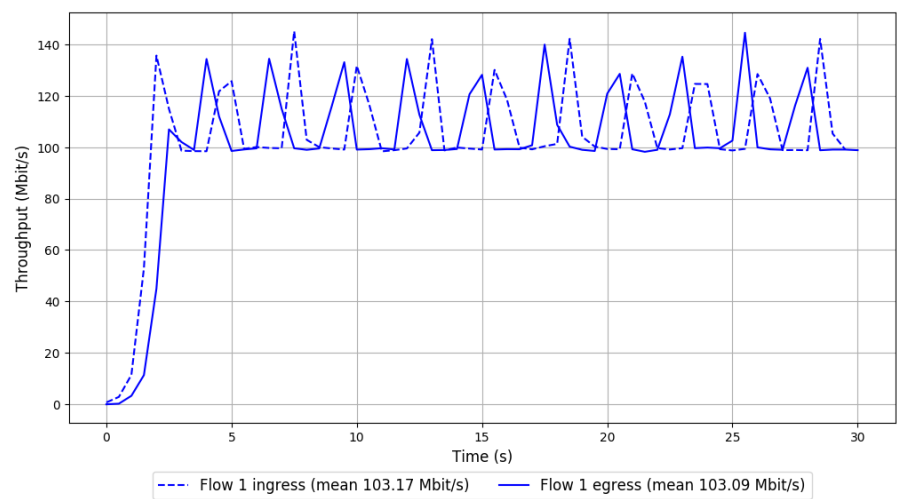
-- Flow 1:

Average throughput: 103.09 Mbit/s

95th percentile per-packet one-way delay: 125.331 ms

Loss rate: 0.80%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-07-24 22:48:31

End at: 2018-07-24 22:49:01

Local clock offset: 1.578 ms

Remote clock offset: 0.005 ms

Below is generated by plot.py at 2018-07-25 00:25:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 101.42 Mbit/s

95th percentile per-packet one-way delay: 127.151 ms

Loss rate: 0.42%

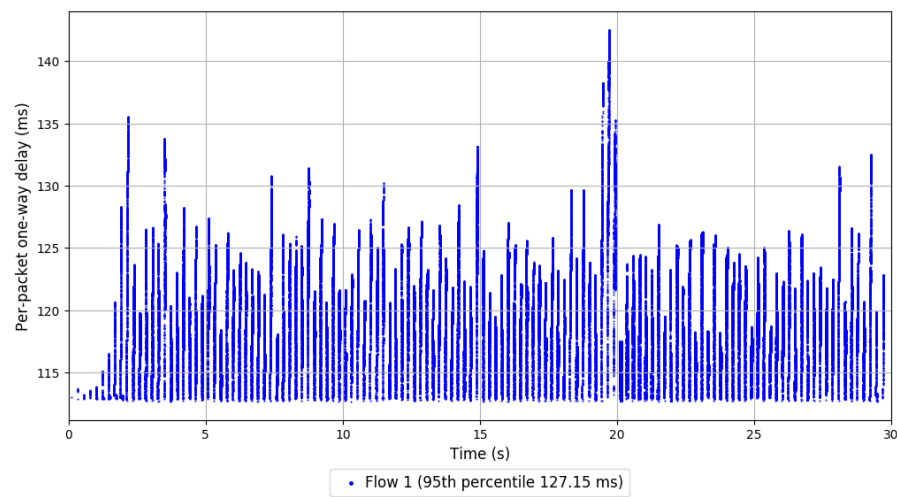
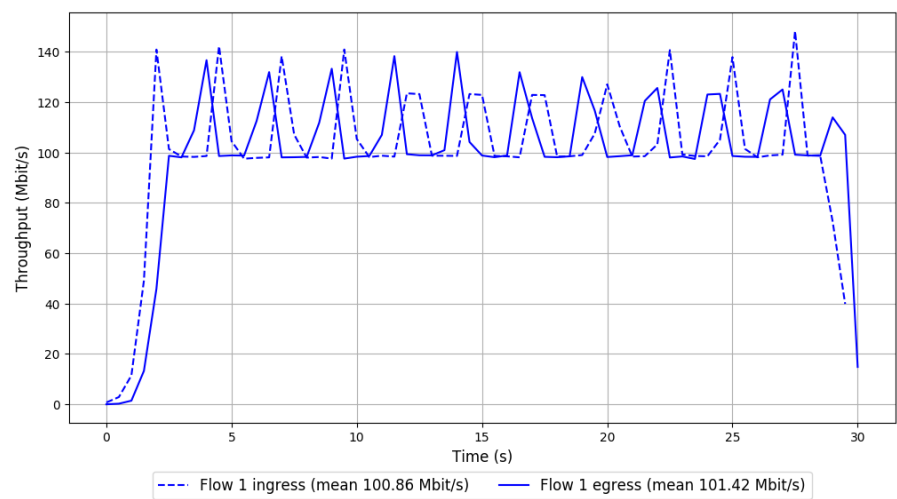
-- Flow 1:

Average throughput: 101.42 Mbit/s

95th percentile per-packet one-way delay: 127.151 ms

Loss rate: 0.42%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-07-24 23:11:34

End at: 2018-07-24 23:12:04

Local clock offset: 0.022 ms

Remote clock offset: 0.037 ms

Below is generated by plot.py at 2018-07-25 00:25:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 98.27 Mbit/s

95th percentile per-packet one-way delay: 124.832 ms

Loss rate: 0.83%

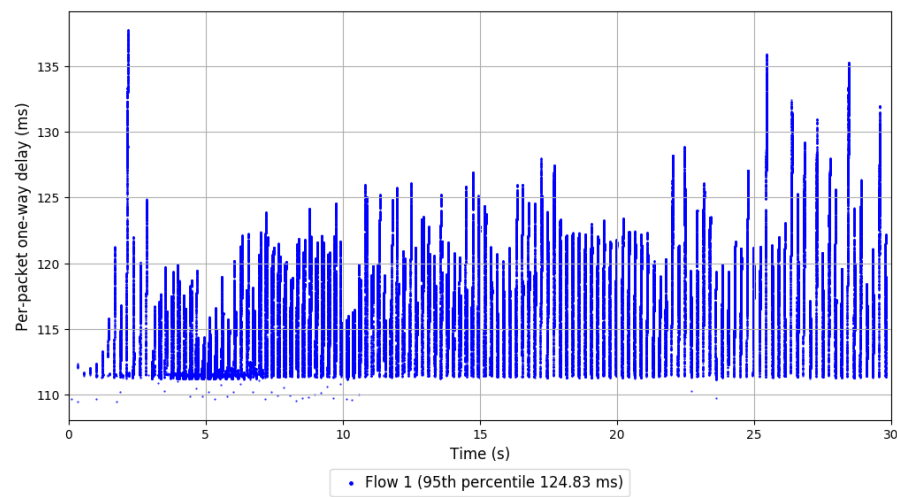
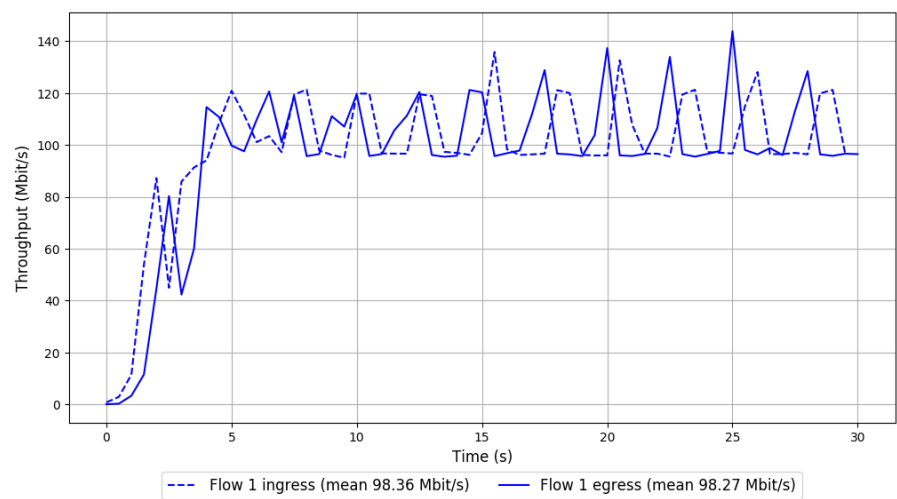
-- Flow 1:

Average throughput: 98.27 Mbit/s

95th percentile per-packet one-way delay: 124.832 ms

Loss rate: 0.83%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-07-24 23:34:17

End at: 2018-07-24 23:34:47

Local clock offset: 0.077 ms

Remote clock offset: 0.019 ms

Below is generated by plot.py at 2018-07-25 00:25:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.42 Mbit/s

95th percentile per-packet one-way delay: 121.931 ms

Loss rate: 1.04%

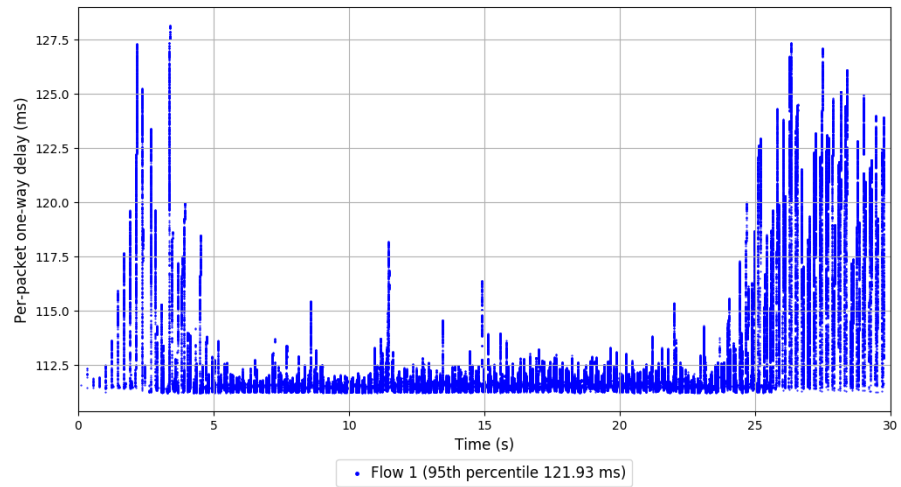
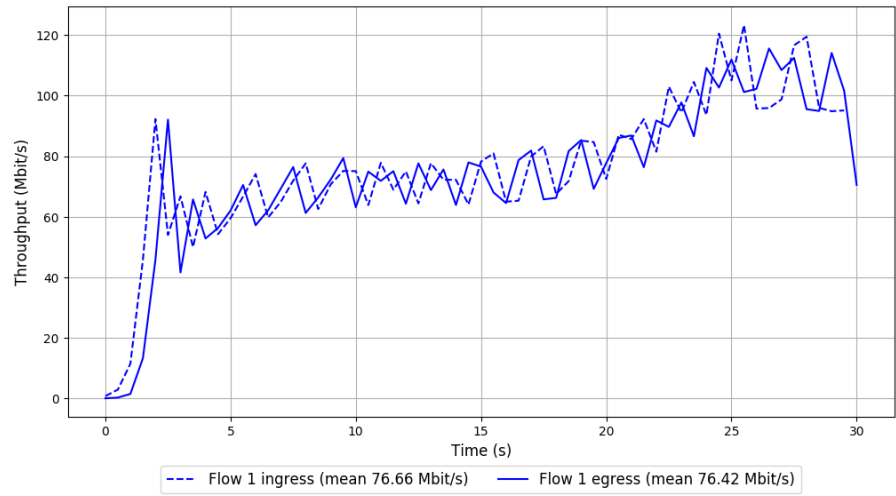
-- Flow 1:

Average throughput: 76.42 Mbit/s

95th percentile per-packet one-way delay: 121.931 ms

Loss rate: 1.04%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-07-24 23:57:10

End at: 2018-07-24 23:57:40

Local clock offset: 1.404 ms

Remote clock offset: 0.061 ms

Below is generated by plot.py at 2018-07-25 00:25:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.45 Mbit/s

95th percentile per-packet one-way delay: 124.181 ms

Loss rate: 0.86%

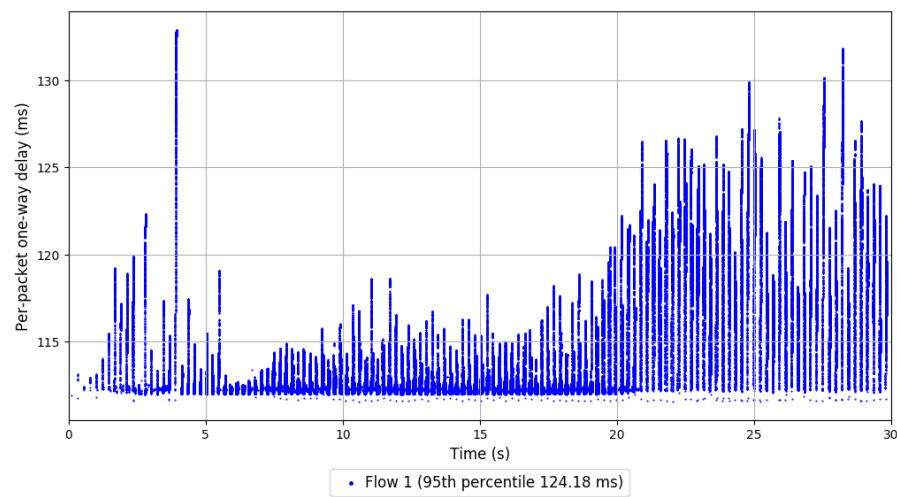
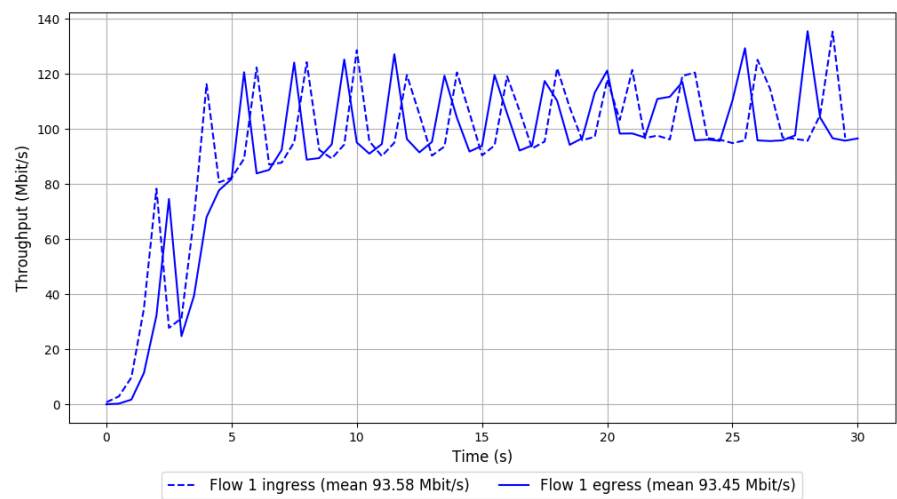
-- Flow 1:

Average throughput: 93.45 Mbit/s

95th percentile per-packet one-way delay: 124.181 ms

Loss rate: 0.86%

Run 10: Report of TCP Cubic — Data Link

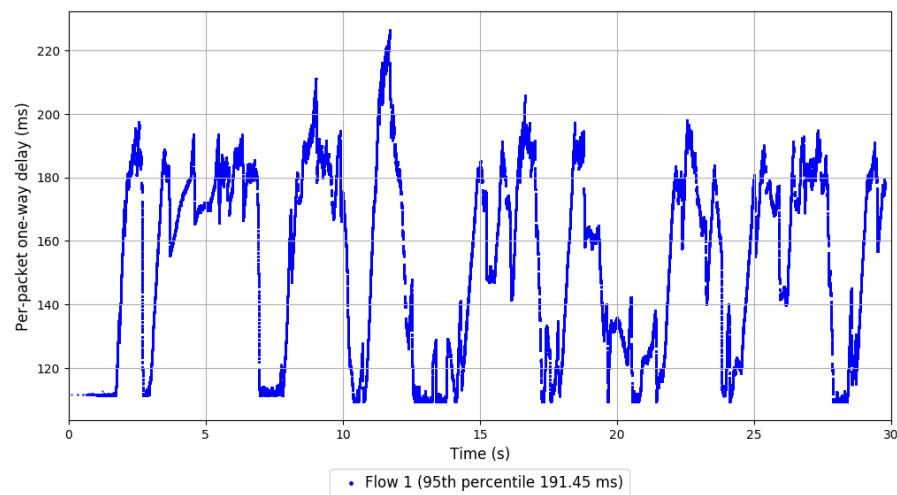
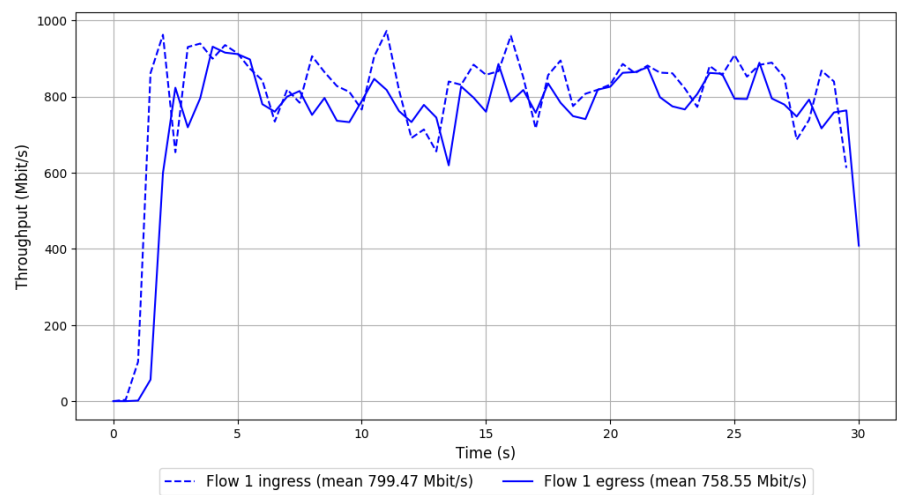


Run 1: Statistics of FillP

Start at: 2018-07-24 20:23:00
End at: 2018-07-24 20:23:30
Local clock offset: -0.237 ms
Remote clock offset: -0.412 ms

Below is generated by plot.py at 2018-07-25 00:37:47
Datalink statistics
-- Total of 1 flow:
Average throughput: 758.55 Mbit/s
95th percentile per-packet one-way delay: 191.449 ms
Loss rate: 5.83%
-- Flow 1:
Average throughput: 758.55 Mbit/s
95th percentile per-packet one-way delay: 191.449 ms
Loss rate: 5.83%

Run 1: Report of FillP — Data Link

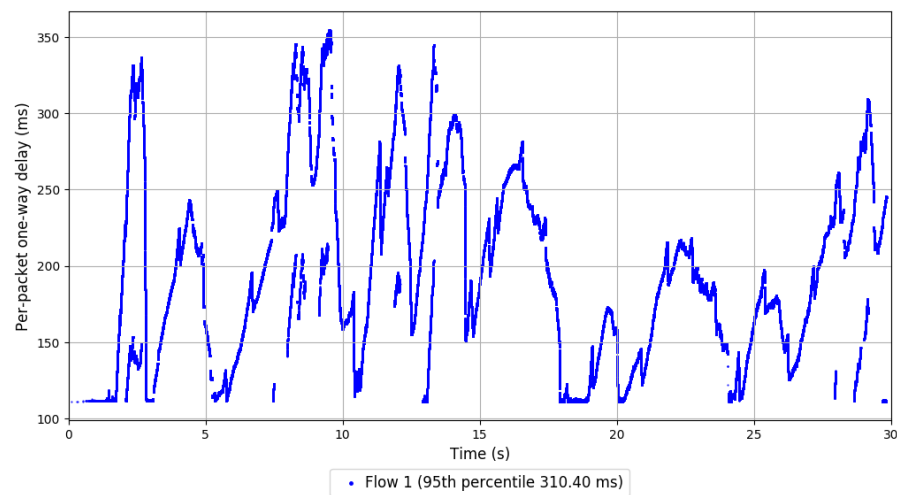
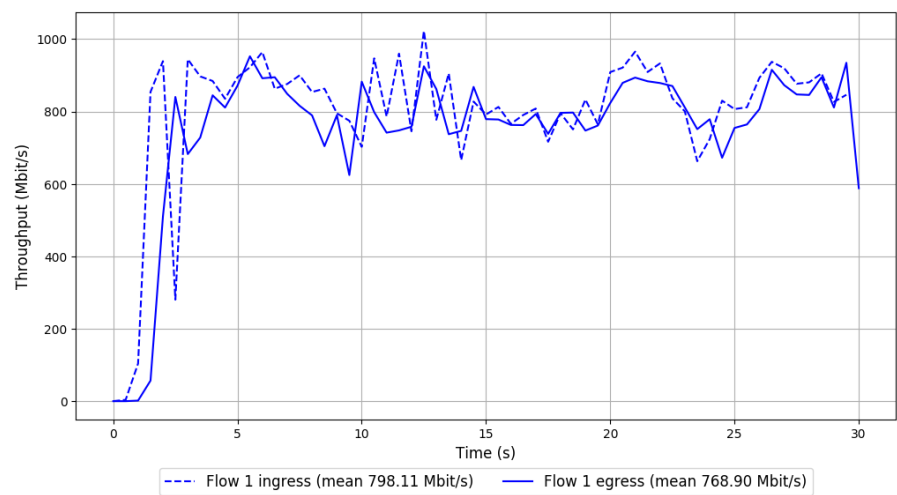


Run 2: Statistics of FillP

Start at: 2018-07-24 20:45:30
End at: 2018-07-24 20:46:00
Local clock offset: -0.196 ms
Remote clock offset: -0.035 ms

Below is generated by plot.py at 2018-07-25 00:38:02
Datalink statistics
-- Total of 1 flow:
Average throughput: 768.90 Mbit/s
95th percentile per-packet one-way delay: 310.396 ms
Loss rate: 4.38%
-- Flow 1:
Average throughput: 768.90 Mbit/s
95th percentile per-packet one-way delay: 310.396 ms
Loss rate: 4.38%

Run 2: Report of FillP — Data Link

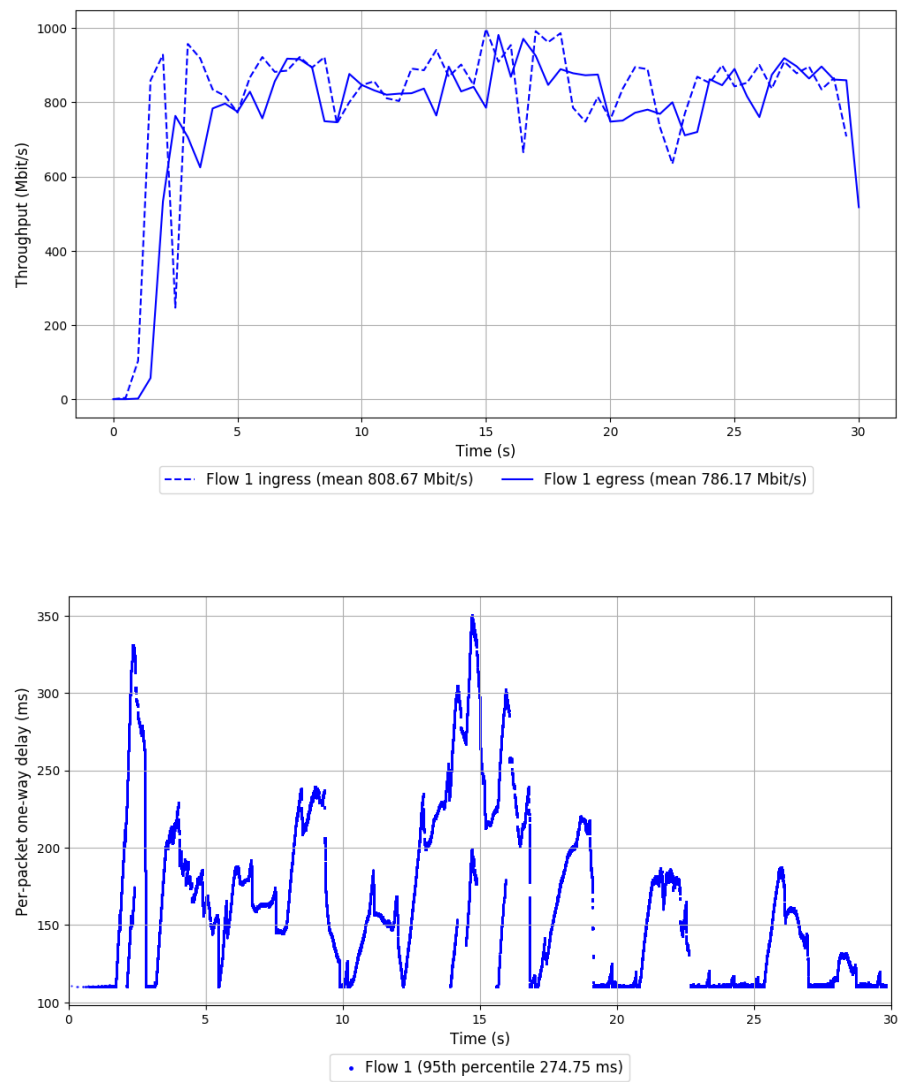


Run 3: Statistics of FillP

Start at: 2018-07-24 21:08:06
End at: 2018-07-24 21:08:36
Local clock offset: -0.142 ms
Remote clock offset: -0.056 ms

Below is generated by plot.py at 2018-07-25 00:38:16
Datalink statistics
-- Total of 1 flow:
Average throughput: 786.17 Mbit/s
95th percentile per-packet one-way delay: 274.754 ms
Loss rate: 3.50%
-- Flow 1:
Average throughput: 786.17 Mbit/s
95th percentile per-packet one-way delay: 274.754 ms
Loss rate: 3.50%

Run 3: Report of FillP — Data Link

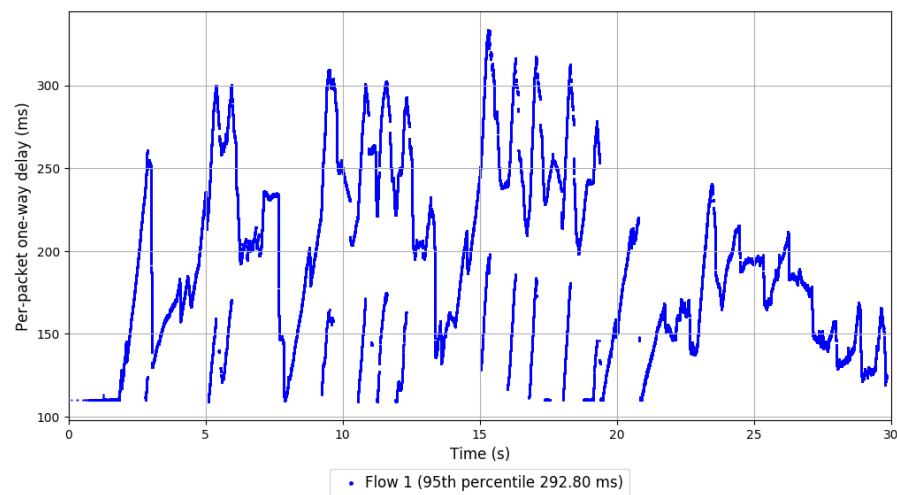
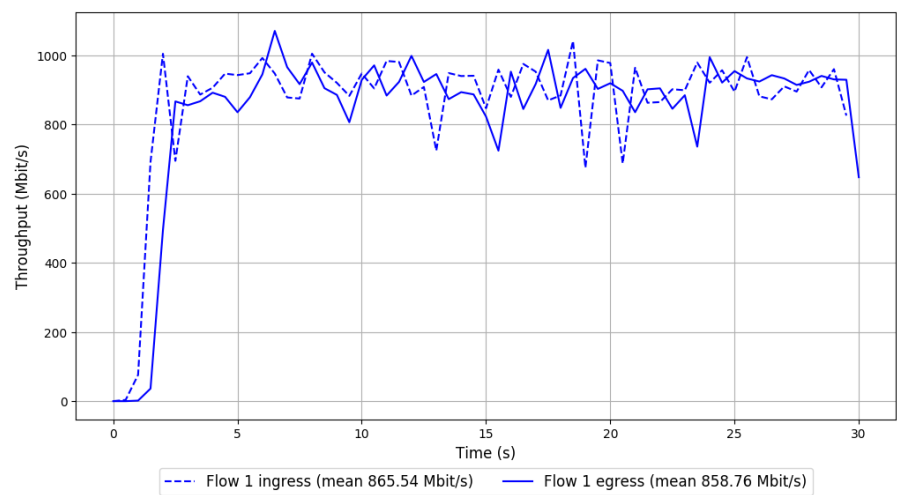


Run 4: Statistics of FillP

Start at: 2018-07-24 21:30:26
End at: 2018-07-24 21:30:56
Local clock offset: -1.48 ms
Remote clock offset: -0.069 ms

Below is generated by plot.py at 2018-07-25 00:40:12
Datalink statistics
-- Total of 1 flow:
Average throughput: 858.76 Mbit/s
95th percentile per-packet one-way delay: 292.803 ms
Loss rate: 1.52%
-- Flow 1:
Average throughput: 858.76 Mbit/s
95th percentile per-packet one-way delay: 292.803 ms
Loss rate: 1.52%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-07-24 21:52:55

End at: 2018-07-24 21:53:25

Local clock offset: -0.064 ms

Remote clock offset: -0.0 ms

Below is generated by plot.py at 2018-07-25 00:40:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 804.19 Mbit/s

95th percentile per-packet one-way delay: 245.468 ms

Loss rate: 2.01%

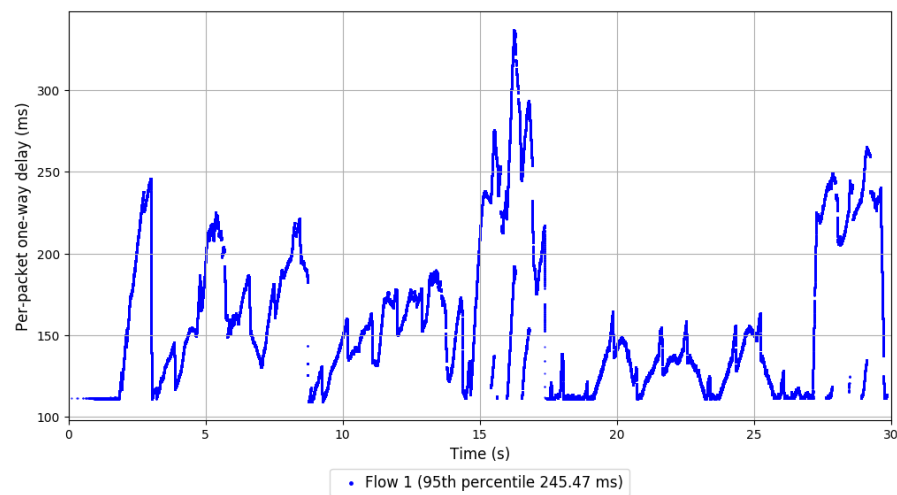
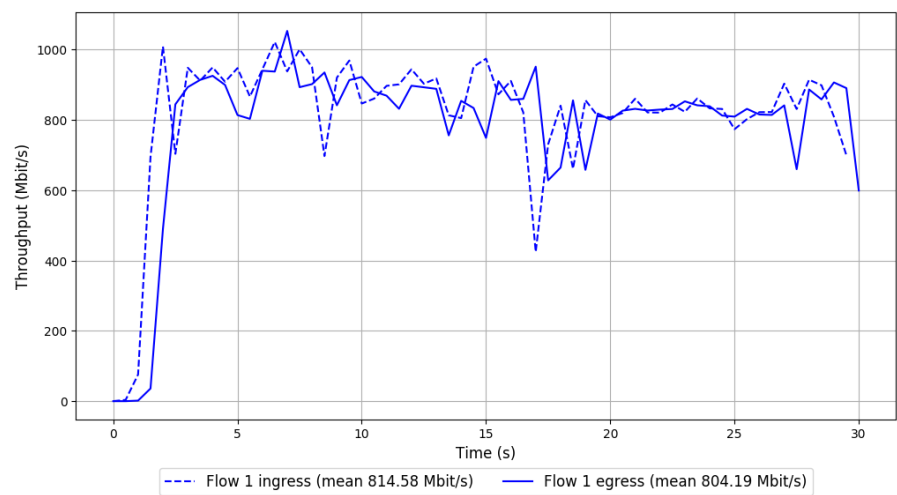
-- Flow 1:

Average throughput: 804.19 Mbit/s

95th percentile per-packet one-way delay: 245.468 ms

Loss rate: 2.01%

Run 5: Report of FillP — Data Link

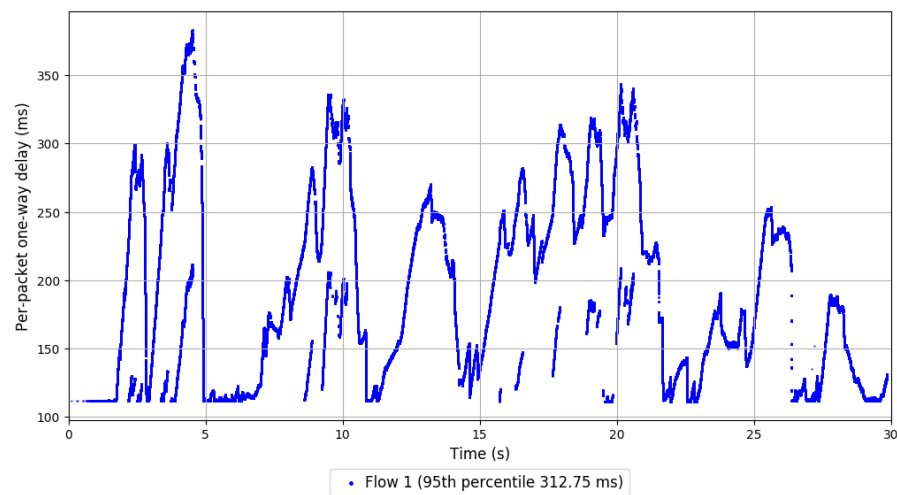
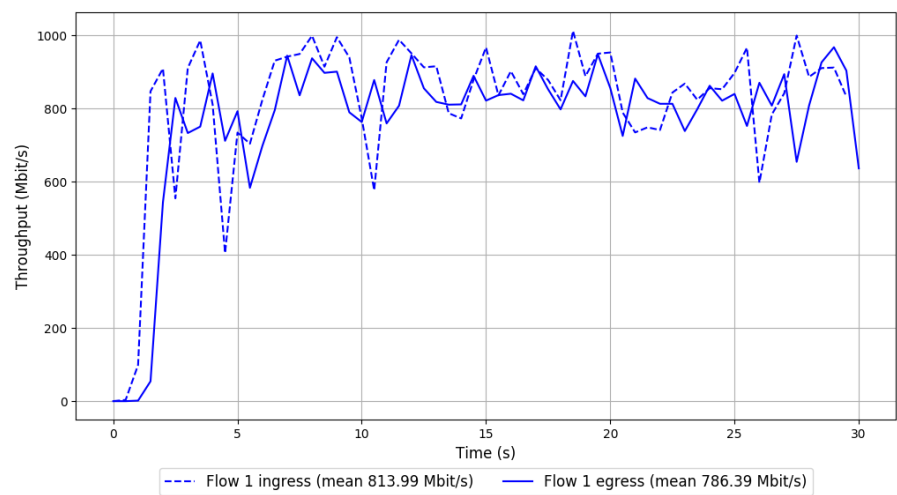


Run 6: Statistics of FillP

Start at: 2018-07-24 22:15:36
End at: 2018-07-24 22:16:06
Local clock offset: -0.119 ms
Remote clock offset: -0.328 ms

Below is generated by plot.py at 2018-07-25 00:40:12
Datalink statistics
-- Total of 1 flow:
Average throughput: 786.39 Mbit/s
95th percentile per-packet one-way delay: 312.745 ms
Loss rate: 4.11%
-- Flow 1:
Average throughput: 786.39 Mbit/s
95th percentile per-packet one-way delay: 312.745 ms
Loss rate: 4.11%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-07-24 22:38:00

End at: 2018-07-24 22:38:30

Local clock offset: 0.386 ms

Remote clock offset: 0.436 ms

Below is generated by plot.py at 2018-07-25 00:40:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 812.86 Mbit/s

95th percentile per-packet one-way delay: 232.950 ms

Loss rate: 2.43%

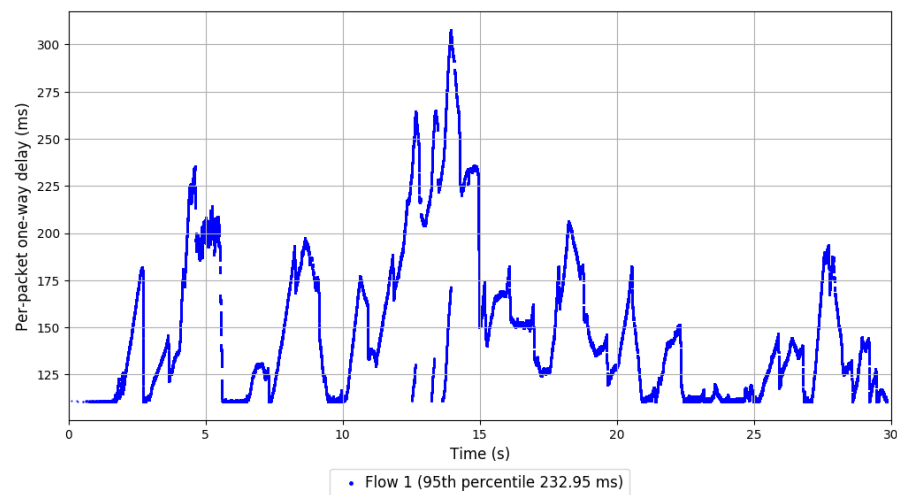
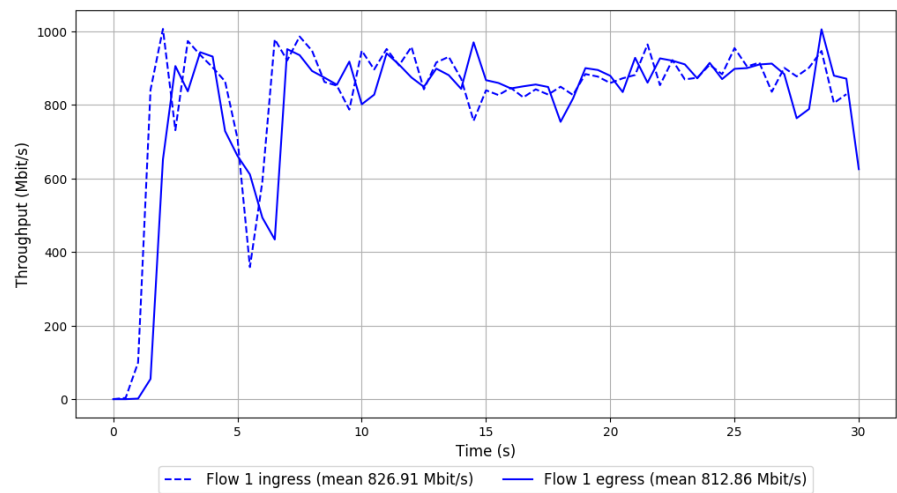
-- Flow 1:

Average throughput: 812.86 Mbit/s

95th percentile per-packet one-way delay: 232.950 ms

Loss rate: 2.43%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-07-24 23:00:49

End at: 2018-07-24 23:01:19

Local clock offset: -0.024 ms

Remote clock offset: 0.352 ms

Below is generated by plot.py at 2018-07-25 00:42:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 847.03 Mbit/s

95th percentile per-packet one-way delay: 280.890 ms

Loss rate: 1.72%

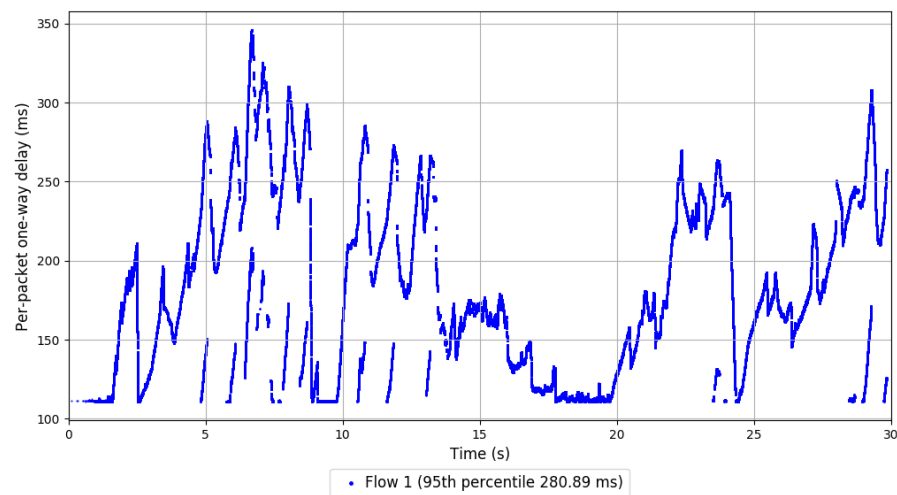
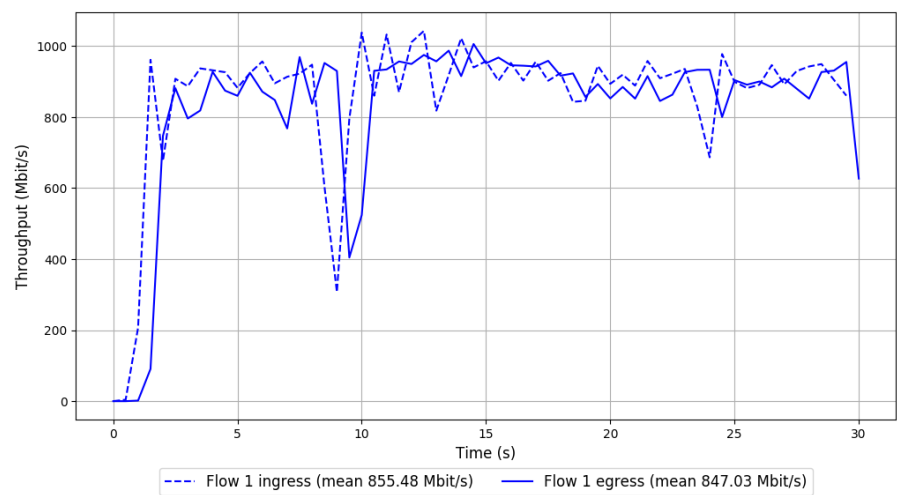
-- Flow 1:

Average throughput: 847.03 Mbit/s

95th percentile per-packet one-way delay: 280.890 ms

Loss rate: 1.72%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-07-24 23:23:45

End at: 2018-07-24 23:24:15

Local clock offset: 0.101 ms

Remote clock offset: 0.347 ms

Below is generated by plot.py at 2018-07-25 00:51:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 708.33 Mbit/s

95th percentile per-packet one-way delay: 289.692 ms

Loss rate: 4.33%

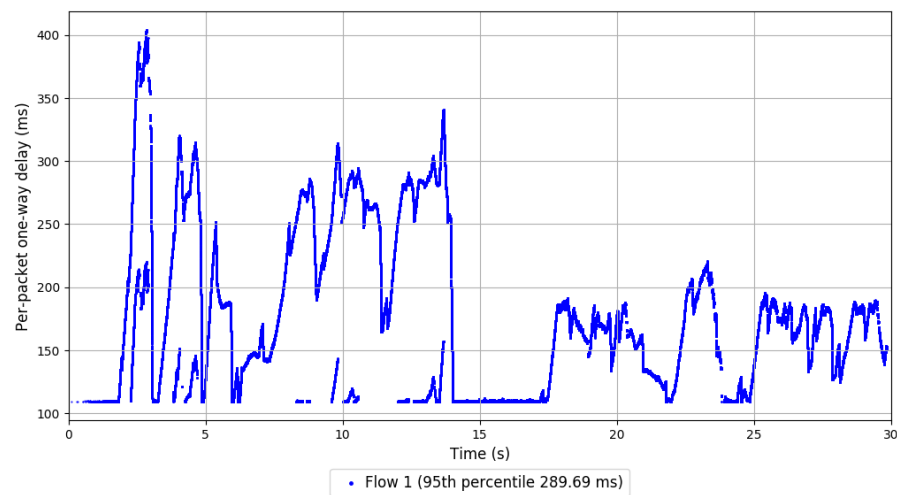
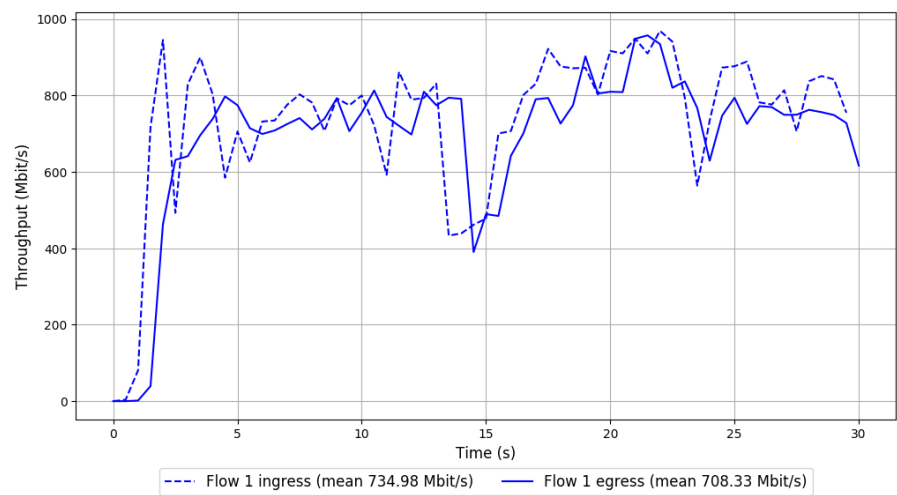
-- Flow 1:

Average throughput: 708.33 Mbit/s

95th percentile per-packet one-way delay: 289.692 ms

Loss rate: 4.33%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-07-24 23:46:26

End at: 2018-07-24 23:46:56

Local clock offset: 0.216 ms

Remote clock offset: 0.364 ms

Below is generated by plot.py at 2018-07-25 00:53:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 779.09 Mbit/s

95th percentile per-packet one-way delay: 276.062 ms

Loss rate: 4.60%

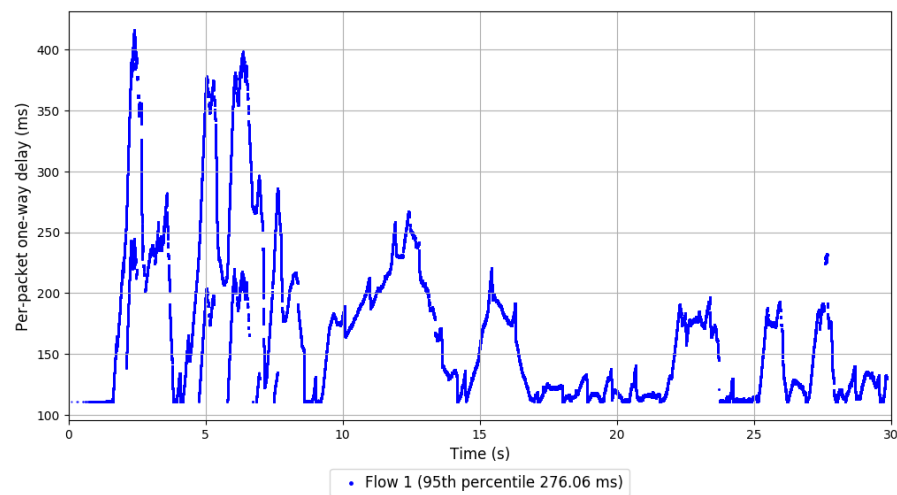
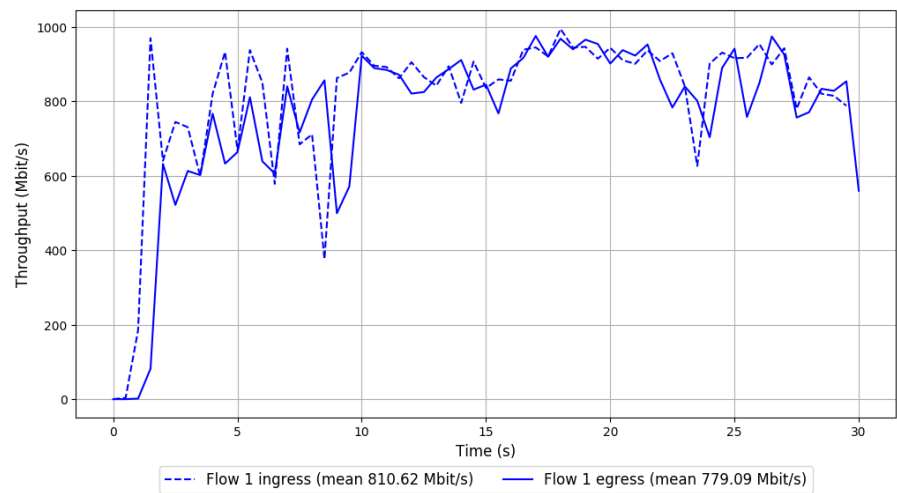
-- Flow 1:

Average throughput: 779.09 Mbit/s

95th percentile per-packet one-way delay: 276.062 ms

Loss rate: 4.60%

Run 10: Report of FillP — Data Link



Run 1: Statistics of FillP-Sheep

Start at: 2018-07-24 20:20:12

End at: 2018-07-24 20:20:42

Local clock offset: -1.469 ms

Remote clock offset: 0.354 ms

Below is generated by plot.py at 2018-07-25 00:53:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 769.93 Mbit/s

95th percentile per-packet one-way delay: 192.390 ms

Loss rate: 3.34%

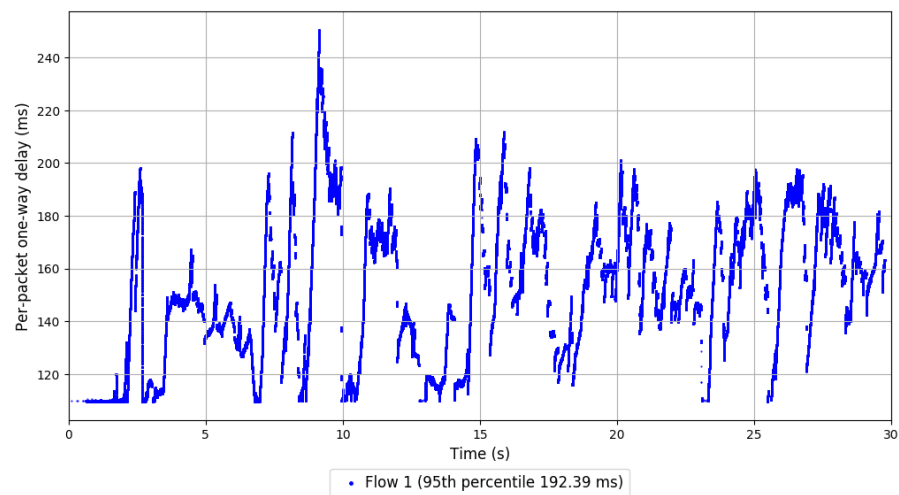
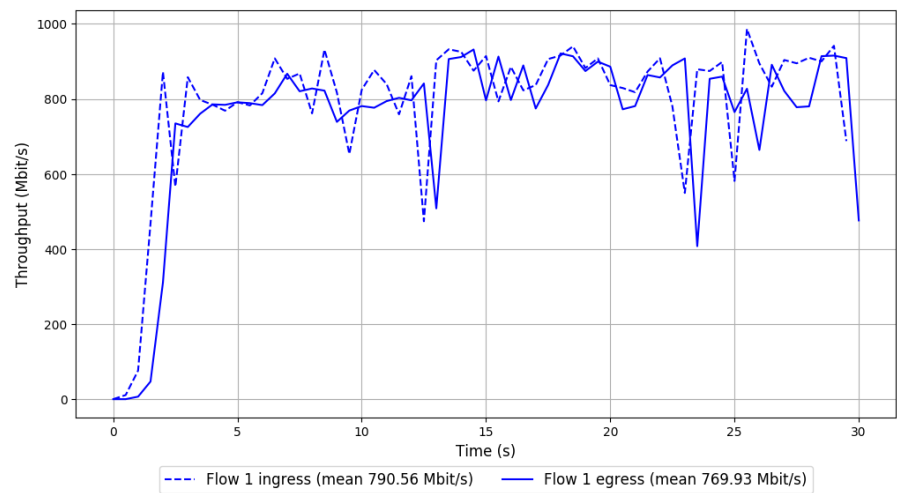
-- Flow 1:

Average throughput: 769.93 Mbit/s

95th percentile per-packet one-way delay: 192.390 ms

Loss rate: 3.34%

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

Start at: 2018-07-24 20:42:42

End at: 2018-07-24 20:43:12

Local clock offset: -0.078 ms

Remote clock offset: 0.015 ms

Below is generated by plot.py at 2018-07-25 00:54:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 771.29 Mbit/s

95th percentile per-packet one-way delay: 218.166 ms

Loss rate: 3.67%

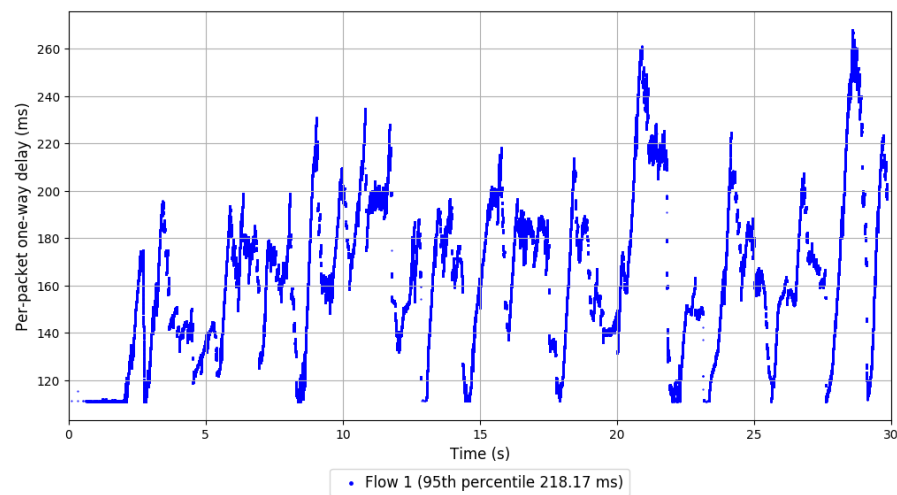
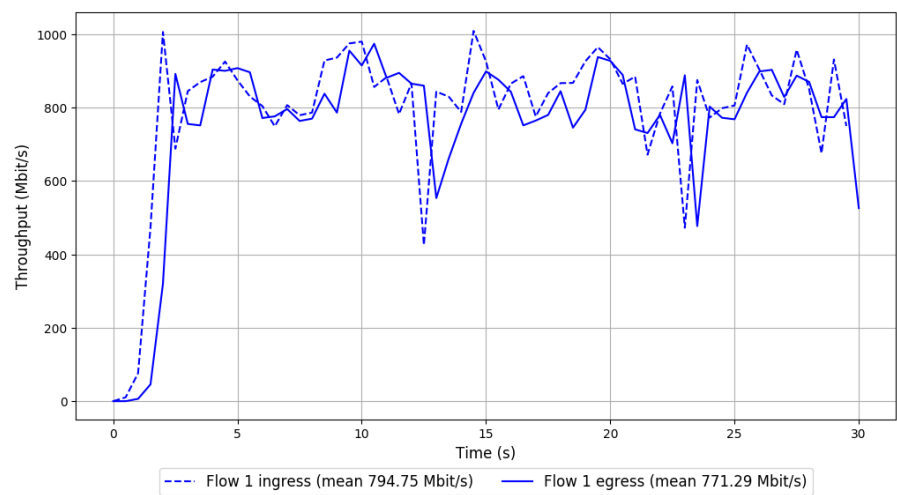
-- Flow 1:

Average throughput: 771.29 Mbit/s

95th percentile per-packet one-way delay: 218.166 ms

Loss rate: 3.67%

Run 2: Report of FillP-Sheep — Data Link



Run 3: Statistics of FillP-Sheep

Start at: 2018-07-24 21:05:17

End at: 2018-07-24 21:05:48

Local clock offset: -0.473 ms

Remote clock offset: 0.354 ms

Below is generated by plot.py at 2018-07-25 00:54:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 765.46 Mbit/s

95th percentile per-packet one-way delay: 192.412 ms

Loss rate: 4.10%

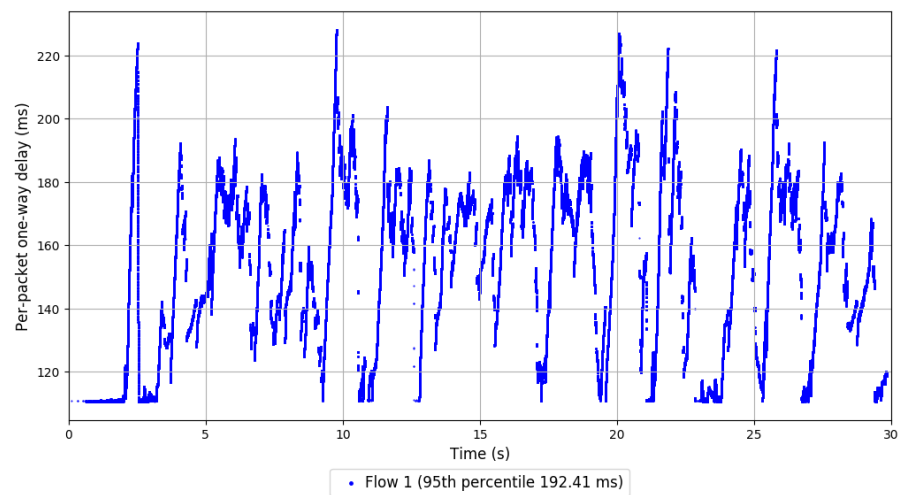
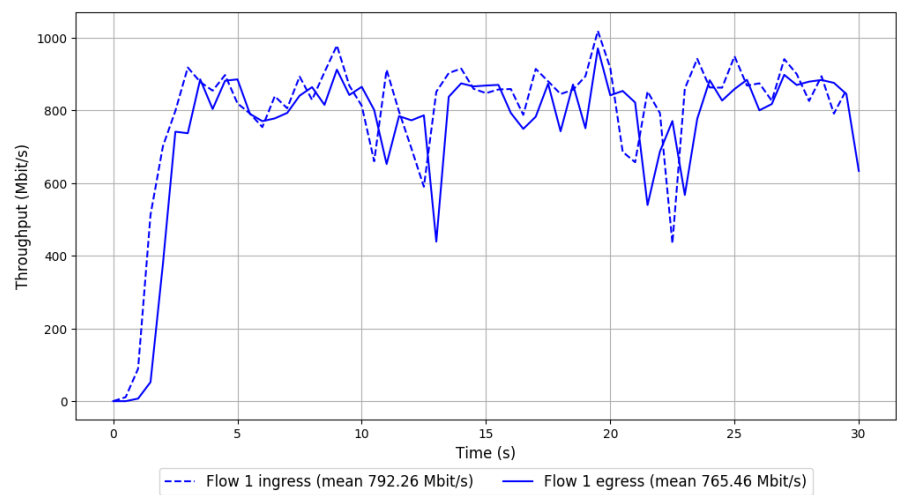
-- Flow 1:

Average throughput: 765.46 Mbit/s

95th percentile per-packet one-way delay: 192.412 ms

Loss rate: 4.10%

Run 3: Report of FillP-Sheep — Data Link

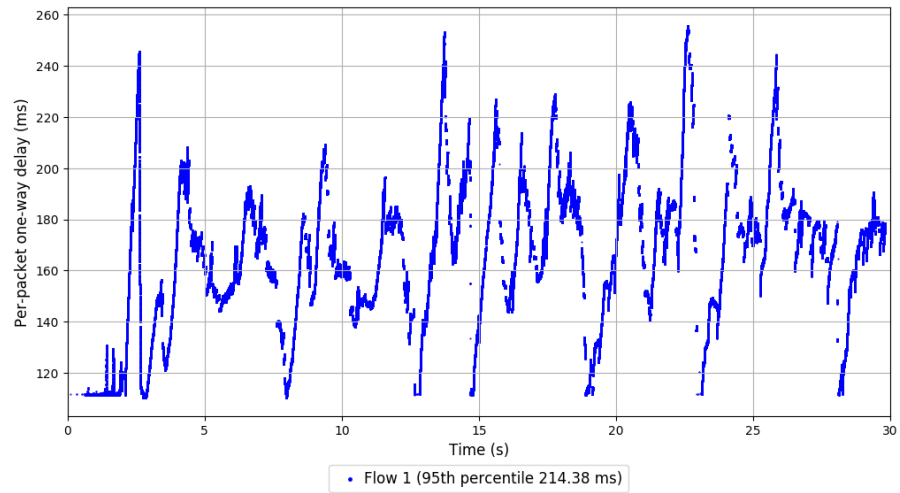
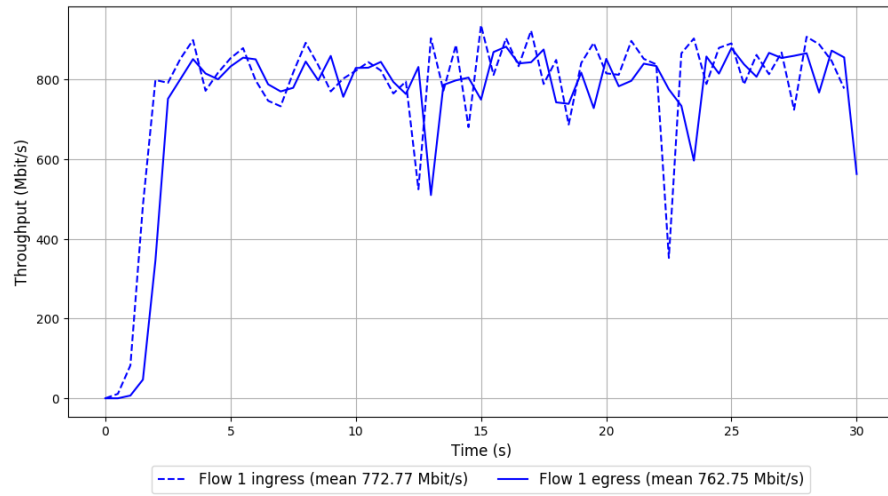


Run 4: Statistics of FillP-Sheep

Start at: 2018-07-24 21:27:38
End at: 2018-07-24 21:28:08
Local clock offset: 0.118 ms
Remote clock offset: -0.071 ms

Below is generated by plot.py at 2018-07-25 00:55:20
Datalink statistics
-- Total of 1 flow:
Average throughput: 762.75 Mbit/s
95th percentile per-packet one-way delay: 214.378 ms
Loss rate: 2.03%
-- Flow 1:
Average throughput: 762.75 Mbit/s
95th percentile per-packet one-way delay: 214.378 ms
Loss rate: 2.03%

Run 4: Report of FillP-Sheep — Data Link



Run 5: Statistics of FillP-Sheep

Start at: 2018-07-24 21:50:04

End at: 2018-07-24 21:50:34

Local clock offset: -0.087 ms

Remote clock offset: 0.4 ms

Below is generated by plot.py at 2018-07-25 00:56:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 848.10 Mbit/s

95th percentile per-packet one-way delay: 197.824 ms

Loss rate: 1.19%

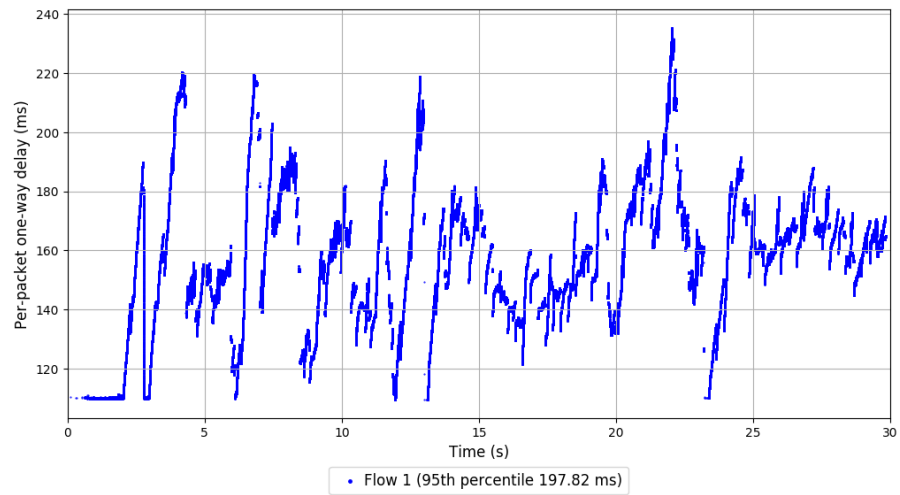
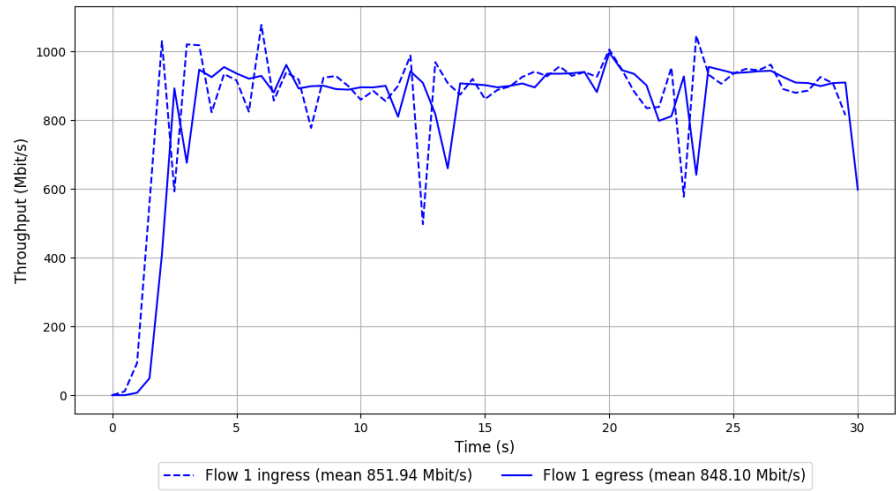
-- Flow 1:

Average throughput: 848.10 Mbit/s

95th percentile per-packet one-way delay: 197.824 ms

Loss rate: 1.19%

Run 5: Report of FillP-Sheep — Data Link



Run 6: Statistics of FillP-Sheep

Start at: 2018-07-24 22:12:43

End at: 2018-07-24 22:13:13

Local clock offset: 0.018 ms

Remote clock offset: -0.355 ms

Below is generated by plot.py at 2018-07-25 00:58:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 744.67 Mbit/s

95th percentile per-packet one-way delay: 300.019 ms

Loss rate: 2.35%

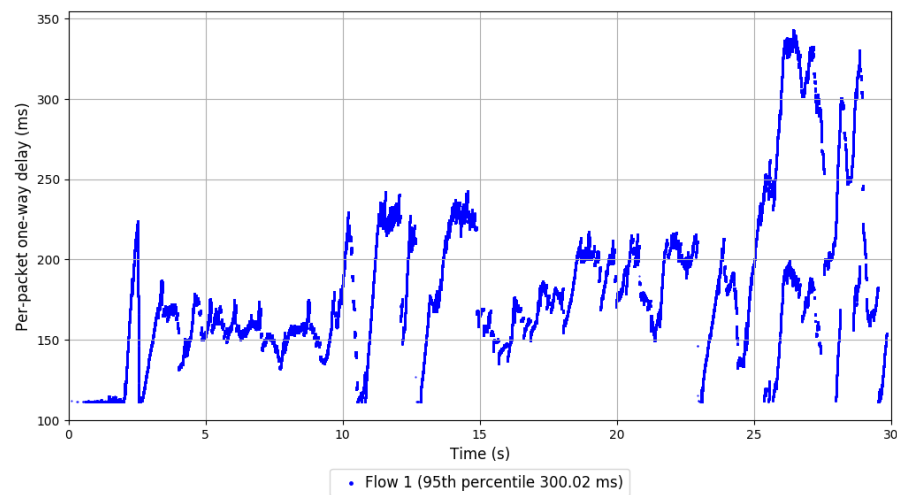
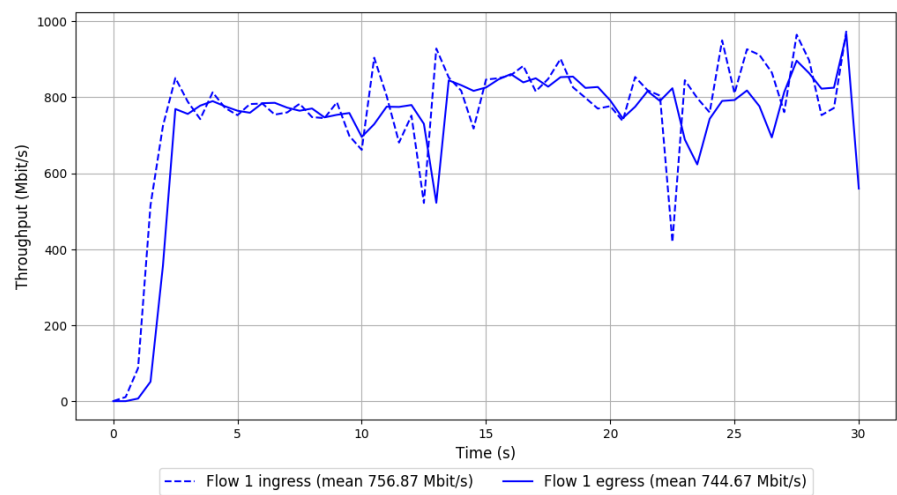
-- Flow 1:

Average throughput: 744.67 Mbit/s

95th percentile per-packet one-way delay: 300.019 ms

Loss rate: 2.35%

Run 6: Report of FillP-Sheep — Data Link



Run 7: Statistics of FillP-Sheep

Start at: 2018-07-24 22:35:10

End at: 2018-07-24 22:35:40

Local clock offset: 0.088 ms

Remote clock offset: 0.403 ms

Below is generated by plot.py at 2018-07-25 01:07:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 790.35 Mbit/s

95th percentile per-packet one-way delay: 204.444 ms

Loss rate: 1.96%

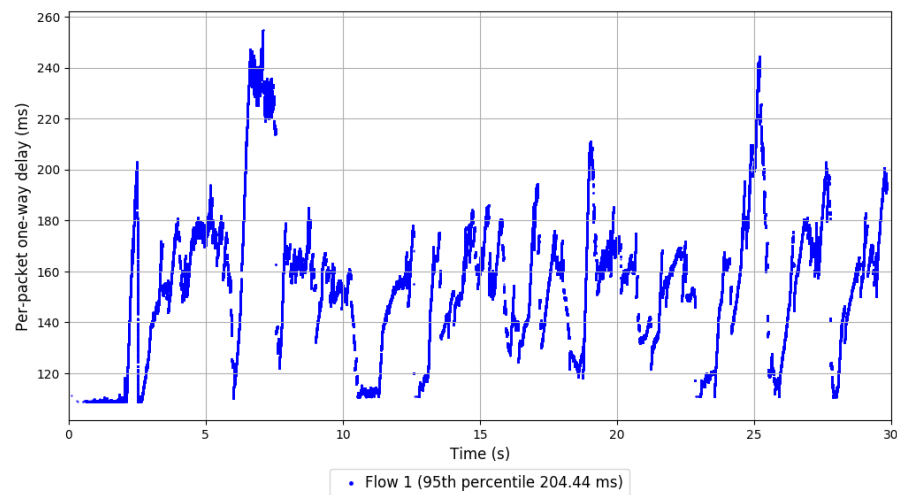
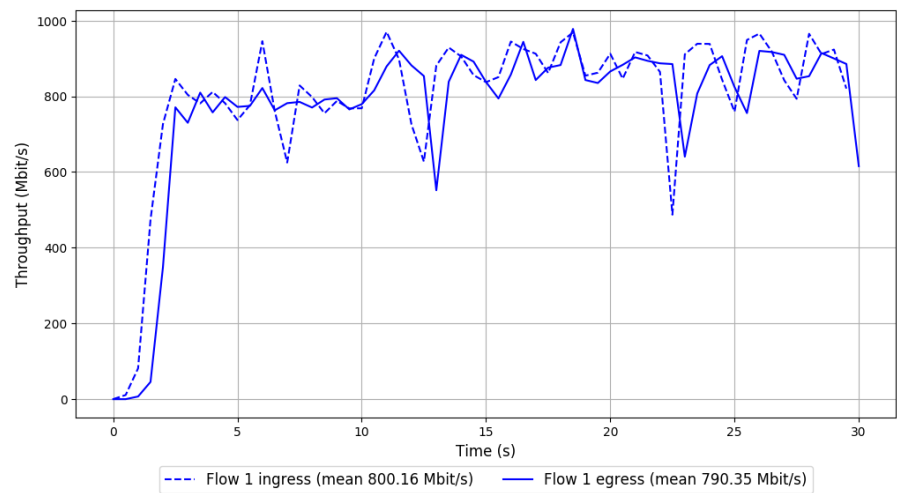
-- Flow 1:

Average throughput: 790.35 Mbit/s

95th percentile per-packet one-way delay: 204.444 ms

Loss rate: 1.96%

Run 7: Report of FillP-Sheep — Data Link



Run 8: Statistics of FillP-Sheep

Start at: 2018-07-24 22:57:57

End at: 2018-07-24 22:58:27

Local clock offset: 0.044 ms

Remote clock offset: -0.026 ms

Below is generated by plot.py at 2018-07-25 01:10:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 826.85 Mbit/s

95th percentile per-packet one-way delay: 200.026 ms

Loss rate: 3.11%

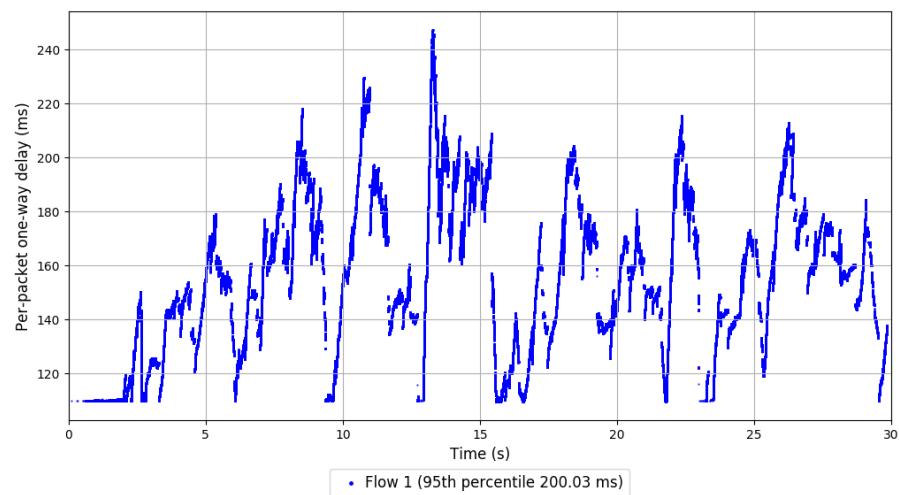
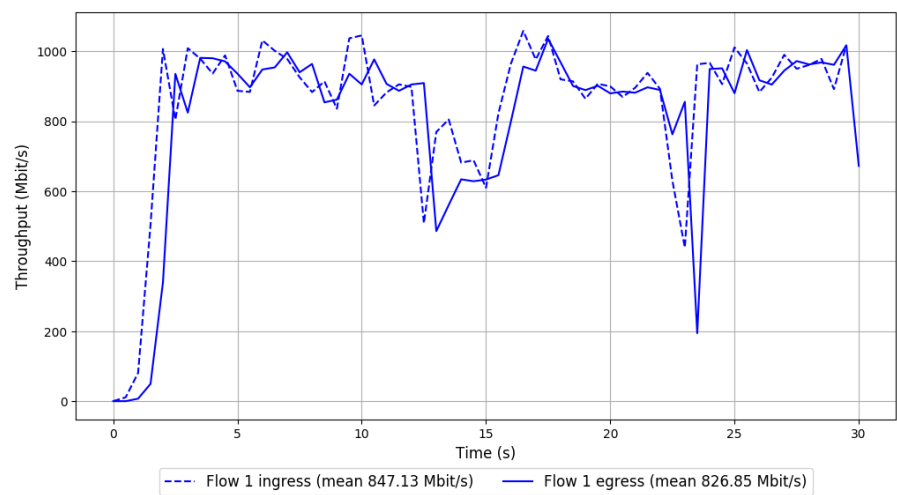
-- Flow 1:

Average throughput: 826.85 Mbit/s

95th percentile per-packet one-way delay: 200.026 ms

Loss rate: 3.11%

Run 8: Report of FillP-Sheep — Data Link



Run 9: Statistics of FillP-Sheep

Start at: 2018-07-24 23:20:58

End at: 2018-07-24 23:21:28

Local clock offset: 0.113 ms

Remote clock offset: 0.349 ms

Below is generated by plot.py at 2018-07-25 01:10:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 754.28 Mbit/s

95th percentile per-packet one-way delay: 239.393 ms

Loss rate: 2.12%

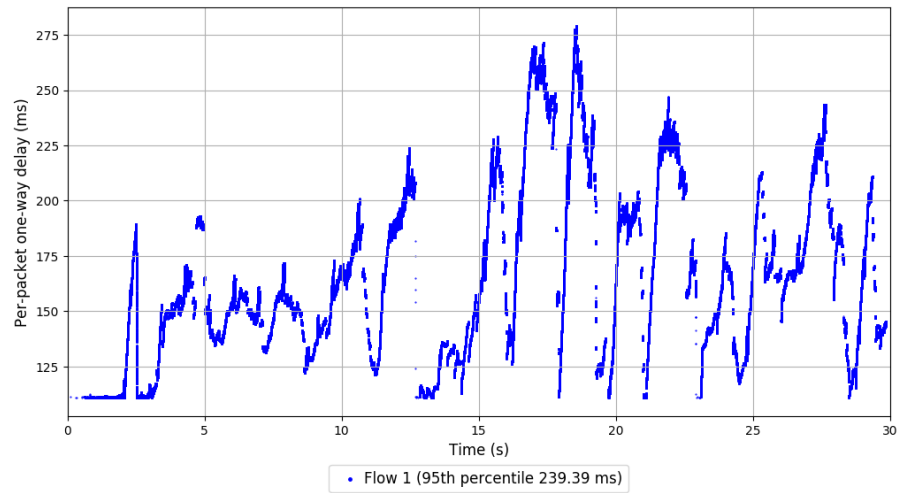
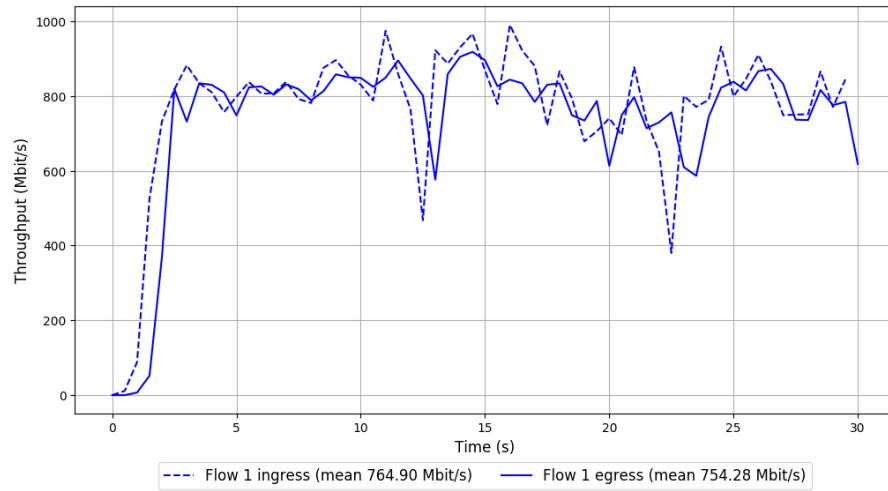
-- Flow 1:

Average throughput: 754.28 Mbit/s

95th percentile per-packet one-way delay: 239.393 ms

Loss rate: 2.12%

Run 9: Report of FillP-Sheep — Data Link

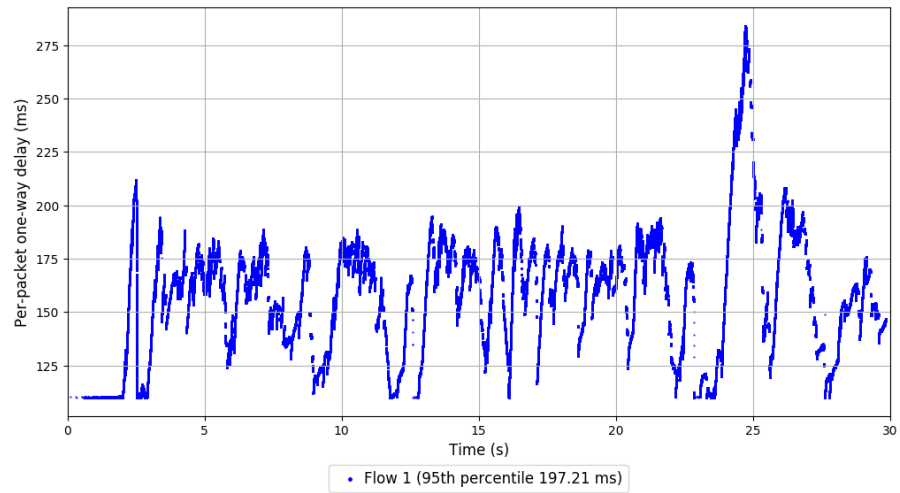
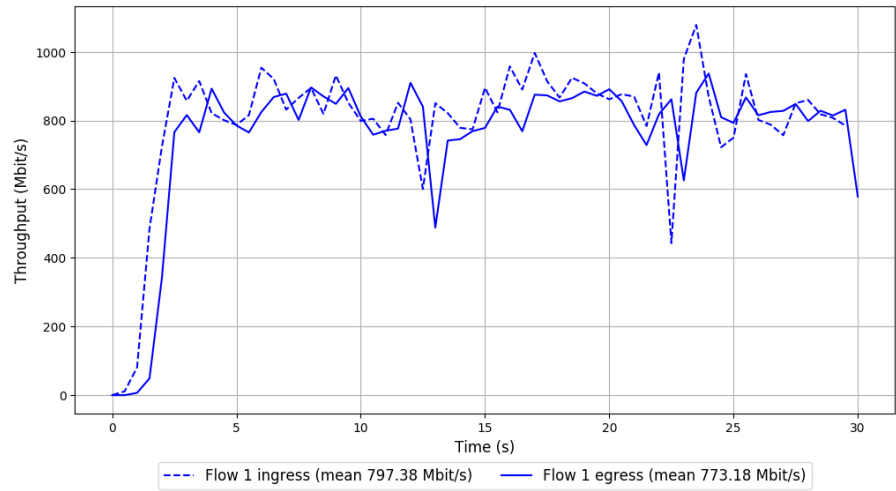


Run 10: Statistics of FillP-Sheep

Start at: 2018-07-24 23:43:38
End at: 2018-07-24 23:44:08
Local clock offset: -1.278 ms
Remote clock offset: -0.031 ms

Below is generated by plot.py at 2018-07-25 01:10:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 773.18 Mbit/s
95th percentile per-packet one-way delay: 197.212 ms
Loss rate: 3.75%
-- Flow 1:
Average throughput: 773.18 Mbit/s
95th percentile per-packet one-way delay: 197.212 ms
Loss rate: 3.75%

Run 10: Report of FillP-Sheep — Data Link



Run 1: Statistics of Indigo

Start at: 2018-07-24 20:38:36

End at: 2018-07-24 20:39:06

Local clock offset: 0.034 ms

Remote clock offset: -0.369 ms

Below is generated by plot.py at 2018-07-25 01:10:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 128.19 Mbit/s

95th percentile per-packet one-way delay: 111.765 ms

Loss rate: 0.94%

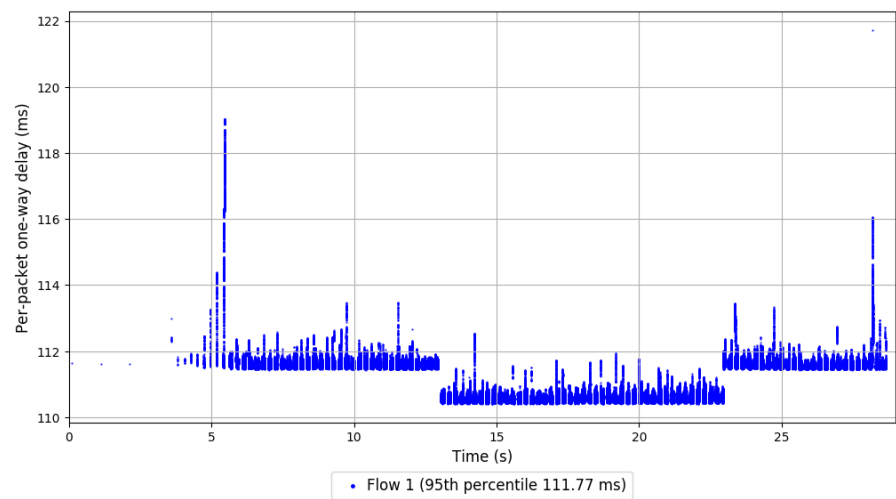
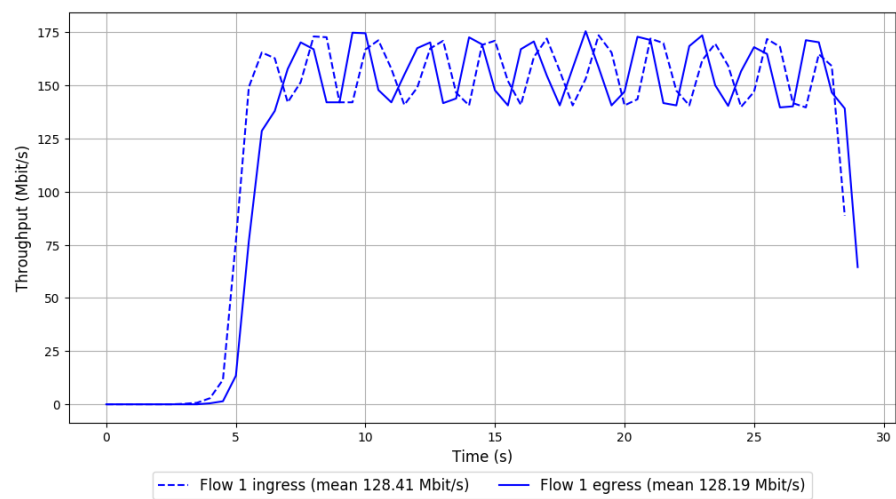
-- Flow 1:

Average throughput: 128.19 Mbit/s

95th percentile per-packet one-way delay: 111.765 ms

Loss rate: 0.94%

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2018-07-24 21:00:59

End at: 2018-07-24 21:01:29

Local clock offset: -0.334 ms

Remote clock offset: 0.308 ms

Below is generated by plot.py at 2018-07-25 01:10:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 217.29 Mbit/s

95th percentile per-packet one-way delay: 111.848 ms

Loss rate: 0.76%

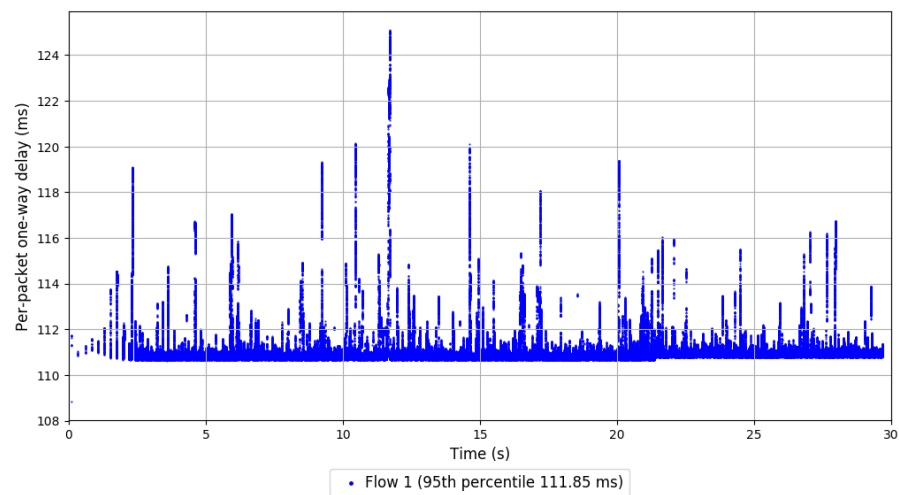
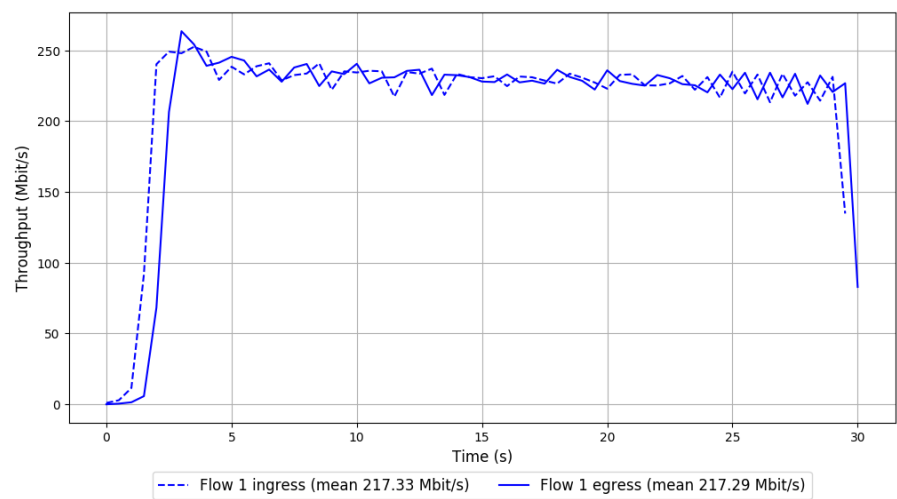
-- Flow 1:

Average throughput: 217.29 Mbit/s

95th percentile per-packet one-way delay: 111.848 ms

Loss rate: 0.76%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-07-24 21:23:39

End at: 2018-07-24 21:24:09

Local clock offset: -0.083 ms

Remote clock offset: 0.266 ms

Below is generated by plot.py at 2018-07-25 01:10:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 146.36 Mbit/s

95th percentile per-packet one-way delay: 111.563 ms

Loss rate: 0.79%

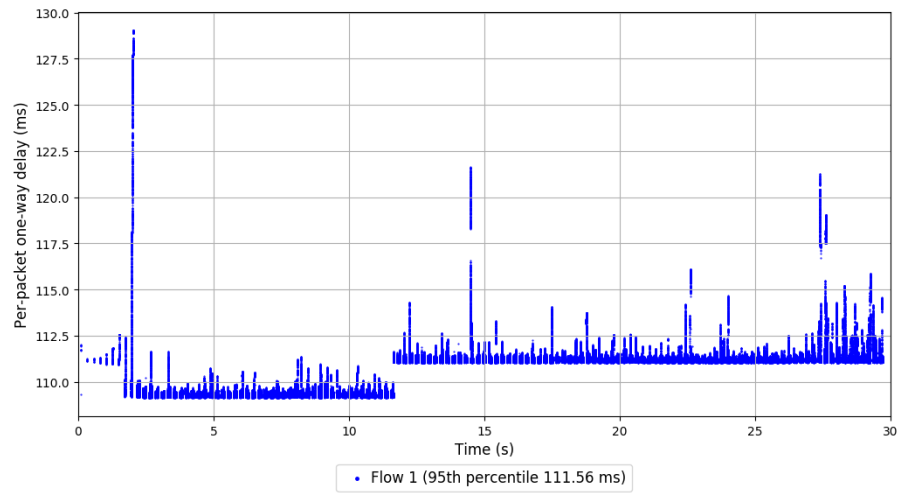
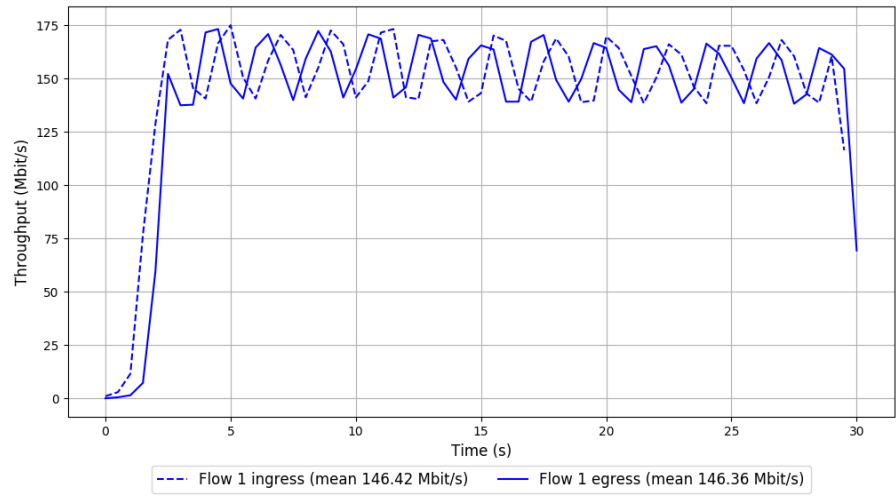
-- Flow 1:

Average throughput: 146.36 Mbit/s

95th percentile per-packet one-way delay: 111.563 ms

Loss rate: 0.79%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-07-24 21:45:59

End at: 2018-07-24 21:46:29

Local clock offset: -0.297 ms

Remote clock offset: 0.312 ms

Below is generated by plot.py at 2018-07-25 01:10:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 214.51 Mbit/s

95th percentile per-packet one-way delay: 111.312 ms

Loss rate: 0.77%

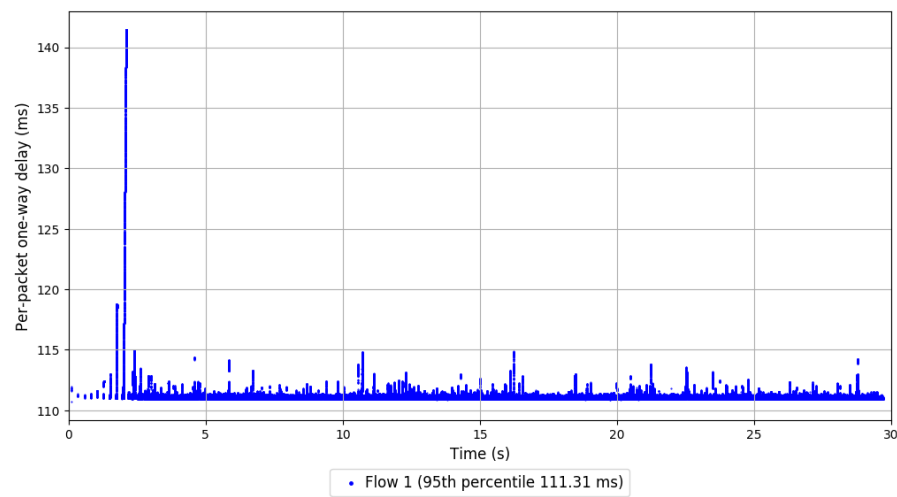
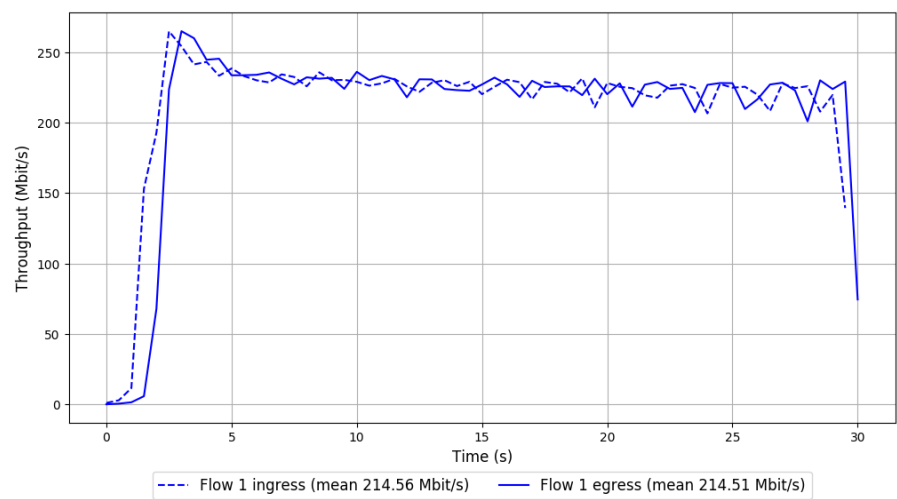
-- Flow 1:

Average throughput: 214.51 Mbit/s

95th percentile per-packet one-way delay: 111.312 ms

Loss rate: 0.77%

Run 4: Report of Indigo — Data Link

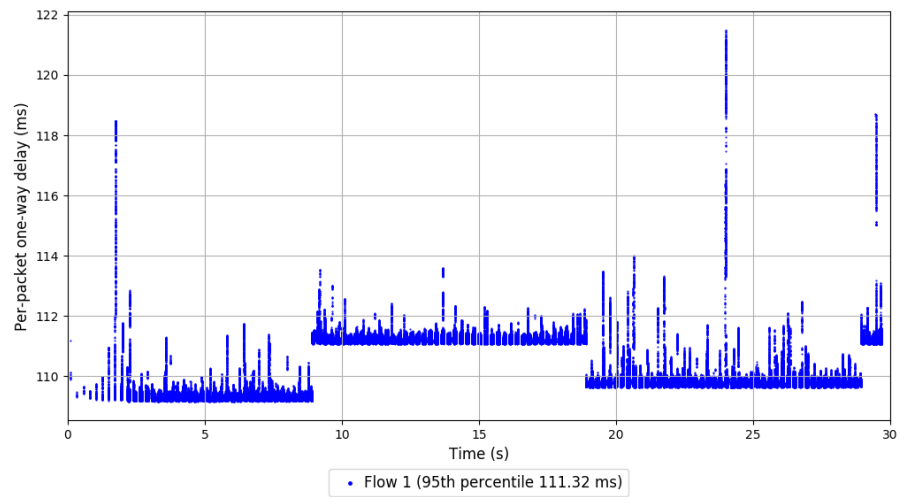
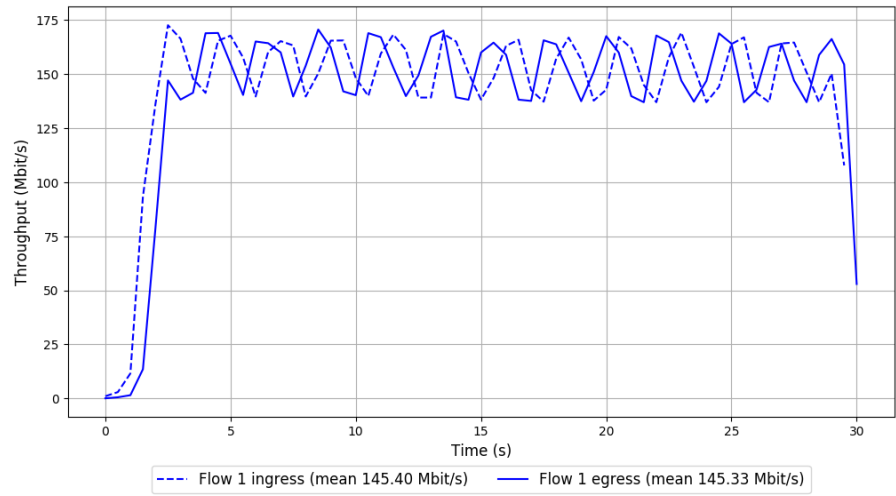


Run 5: Statistics of Indigo

Start at: 2018-07-24 22:08:31
End at: 2018-07-24 22:09:01
Local clock offset: -0.393 ms
Remote clock offset: -0.021 ms

Below is generated by plot.py at 2018-07-25 01:10:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 145.33 Mbit/s
95th percentile per-packet one-way delay: 111.322 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 145.33 Mbit/s
95th percentile per-packet one-way delay: 111.322 ms
Loss rate: 0.80%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2018-07-24 22:31:02

End at: 2018-07-24 22:31:32

Local clock offset: 0.145 ms

Remote clock offset: 0.404 ms

Below is generated by plot.py at 2018-07-25 01:10:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 154.97 Mbit/s

95th percentile per-packet one-way delay: 111.341 ms

Loss rate: 0.82%

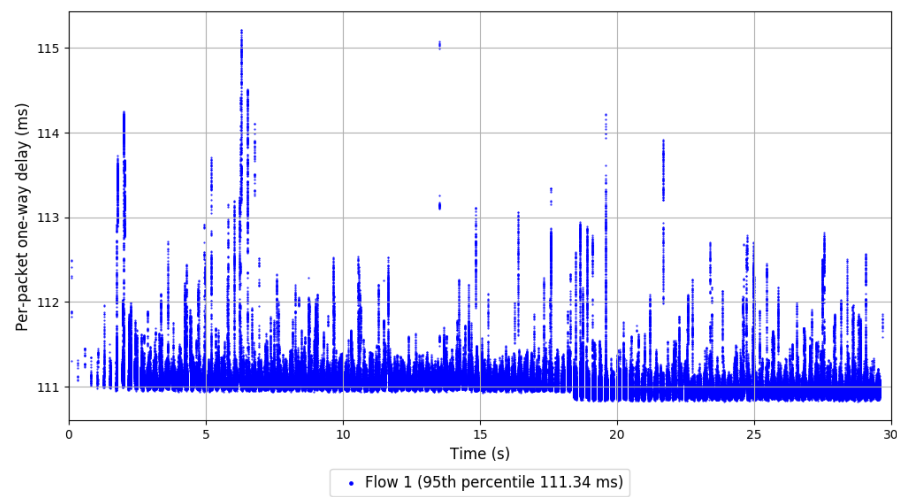
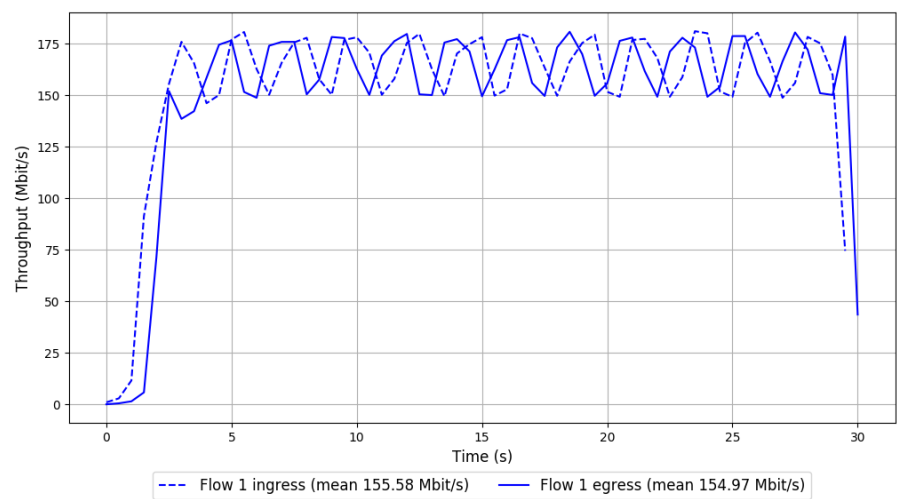
-- Flow 1:

Average throughput: 154.97 Mbit/s

95th percentile per-packet one-way delay: 111.341 ms

Loss rate: 0.82%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2018-07-24 22:53:29

End at: 2018-07-24 22:53:59

Local clock offset: 1.413 ms

Remote clock offset: 0.358 ms

Below is generated by plot.py at 2018-07-25 01:10:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 218.96 Mbit/s

95th percentile per-packet one-way delay: 112.026 ms

Loss rate: 0.77%

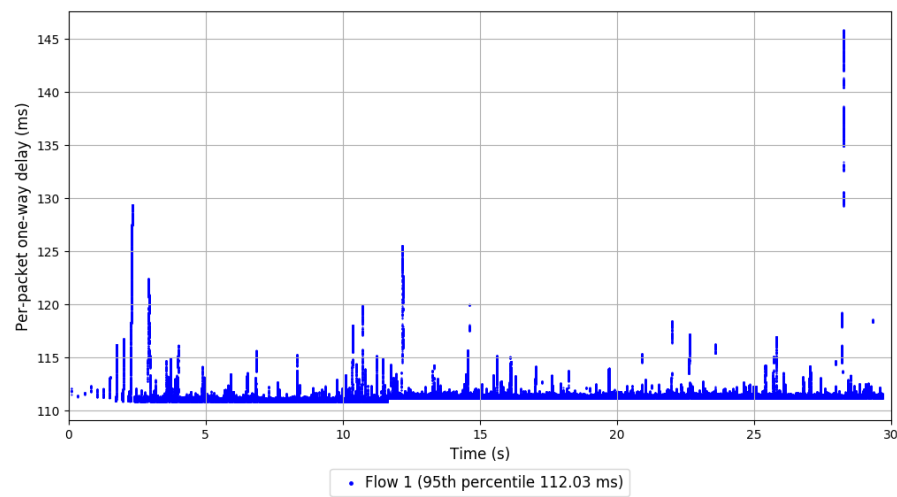
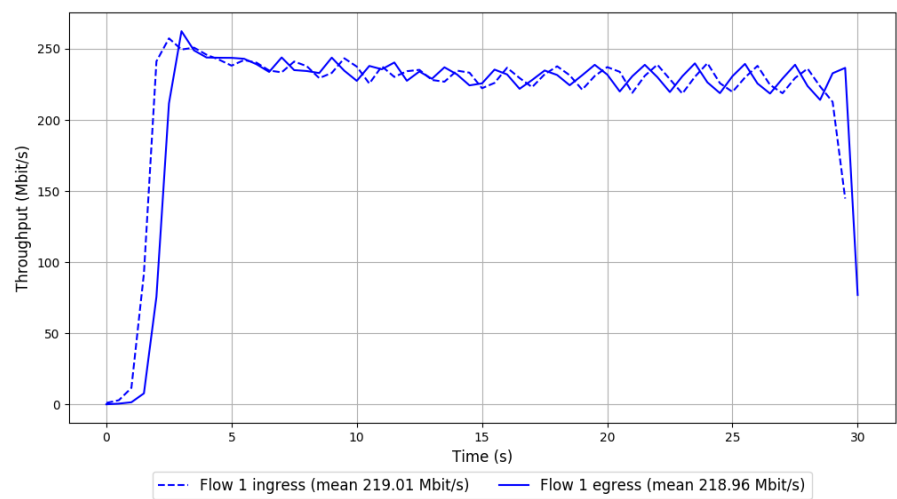
-- Flow 1:

Average throughput: 218.96 Mbit/s

95th percentile per-packet one-way delay: 112.026 ms

Loss rate: 0.77%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2018-07-24 23:16:25

End at: 2018-07-24 23:16:55

Local clock offset: 0.102 ms

Remote clock offset: -0.014 ms

Below is generated by plot.py at 2018-07-25 01:10:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 219.73 Mbit/s

95th percentile per-packet one-way delay: 111.623 ms

Loss rate: 0.76%

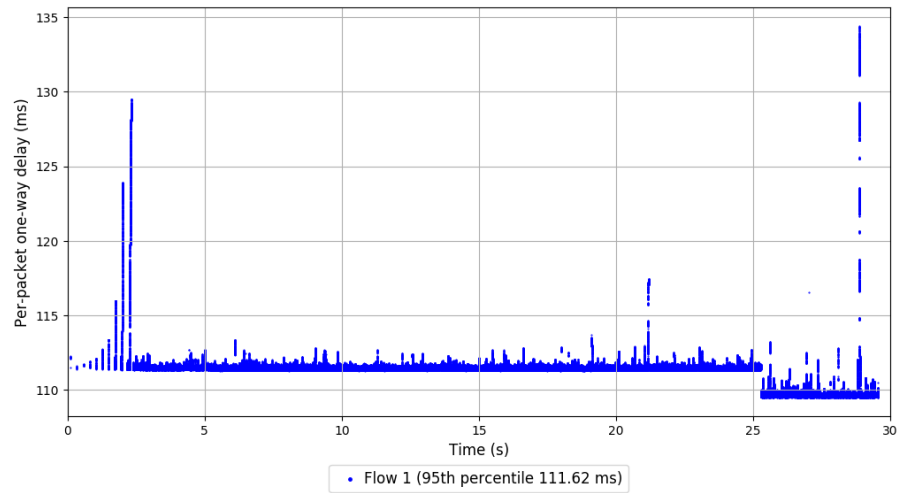
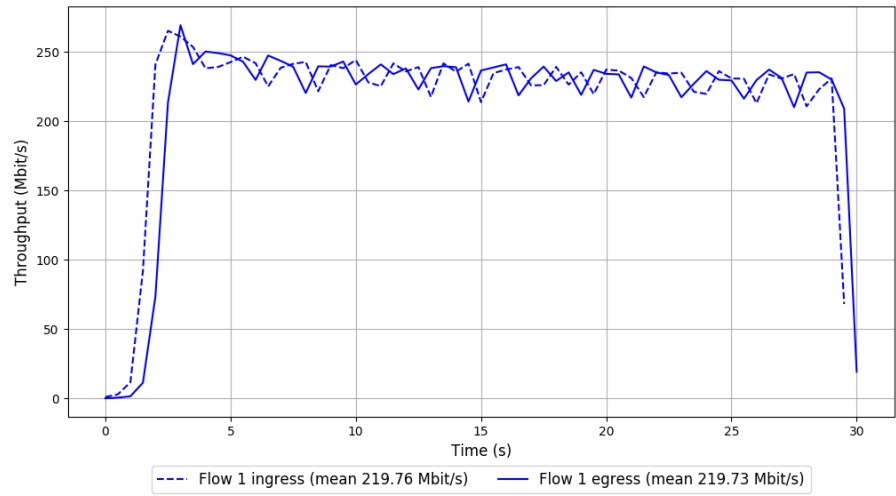
-- Flow 1:

Average throughput: 219.73 Mbit/s

95th percentile per-packet one-way delay: 111.623 ms

Loss rate: 0.76%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2018-07-24 23:39:12

End at: 2018-07-24 23:39:42

Local clock offset: 0.123 ms

Remote clock offset: 0.356 ms

Below is generated by plot.py at 2018-07-25 01:10:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 146.95 Mbit/s

95th percentile per-packet one-way delay: 111.435 ms

Loss rate: 0.79%

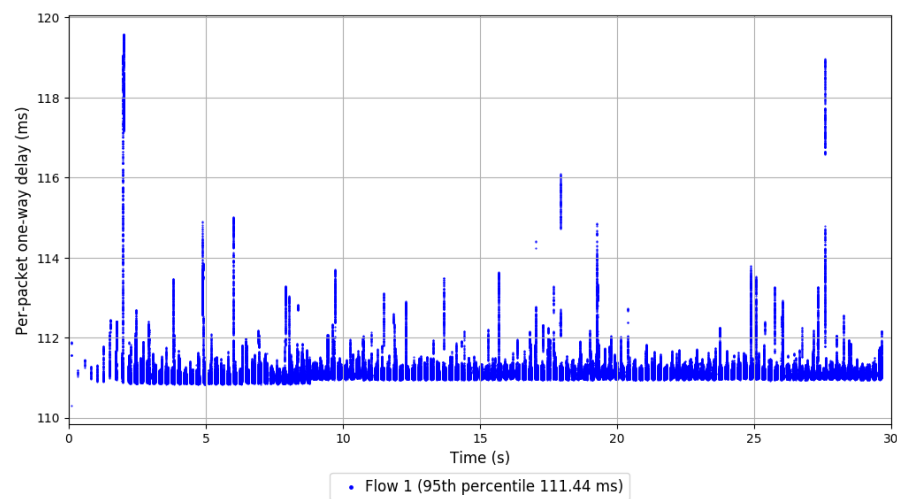
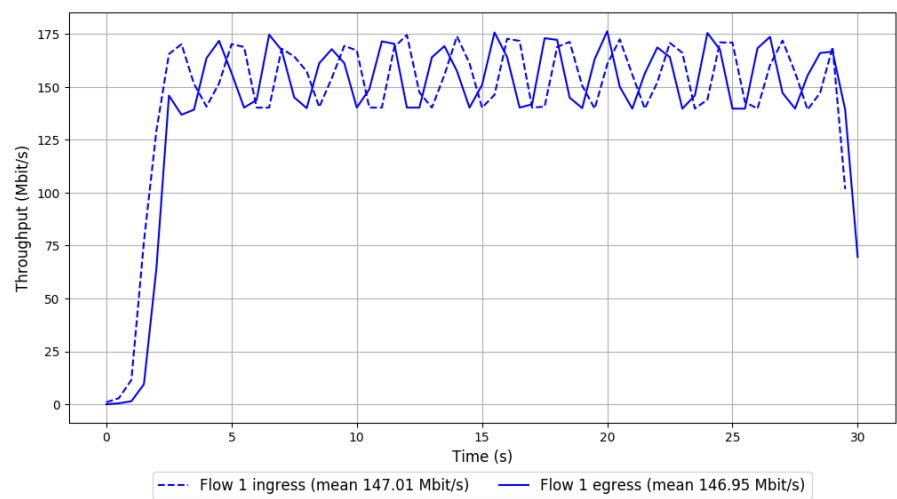
-- Flow 1:

Average throughput: 146.95 Mbit/s

95th percentile per-packet one-way delay: 111.435 ms

Loss rate: 0.79%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-07-25 00:02:07

End at: 2018-07-25 00:02:37

Local clock offset: -0.019 ms

Remote clock offset: 0.016 ms

Below is generated by plot.py at 2018-07-25 01:10:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 217.39 Mbit/s

95th percentile per-packet one-way delay: 111.175 ms

Loss rate: 0.75%

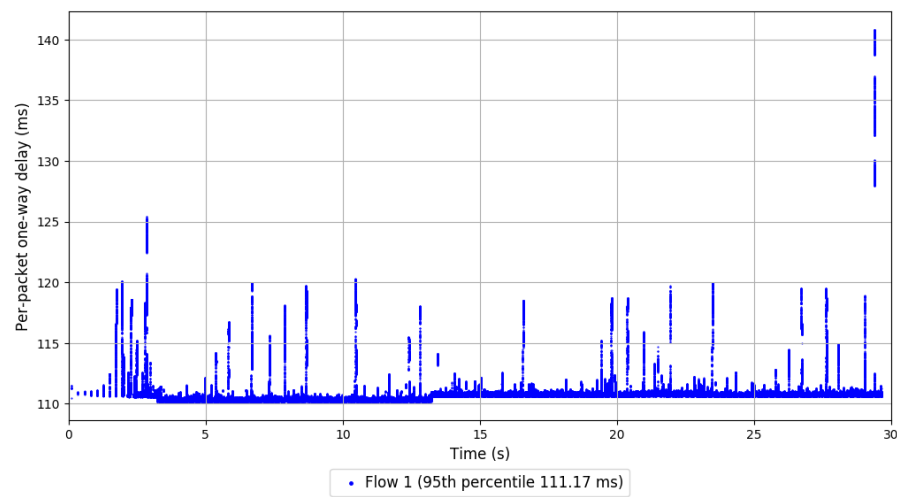
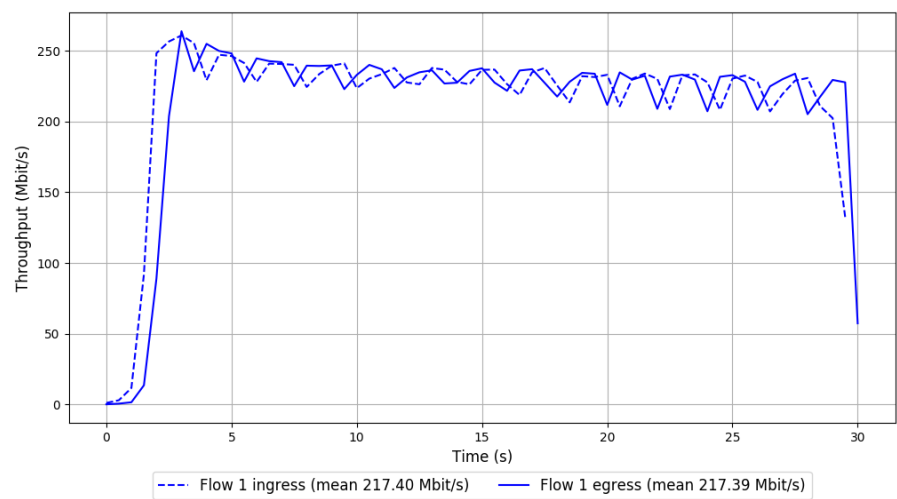
-- Flow 1:

Average throughput: 217.39 Mbit/s

95th percentile per-packet one-way delay: 111.175 ms

Loss rate: 0.75%

Run 10: Report of Indigo — Data Link

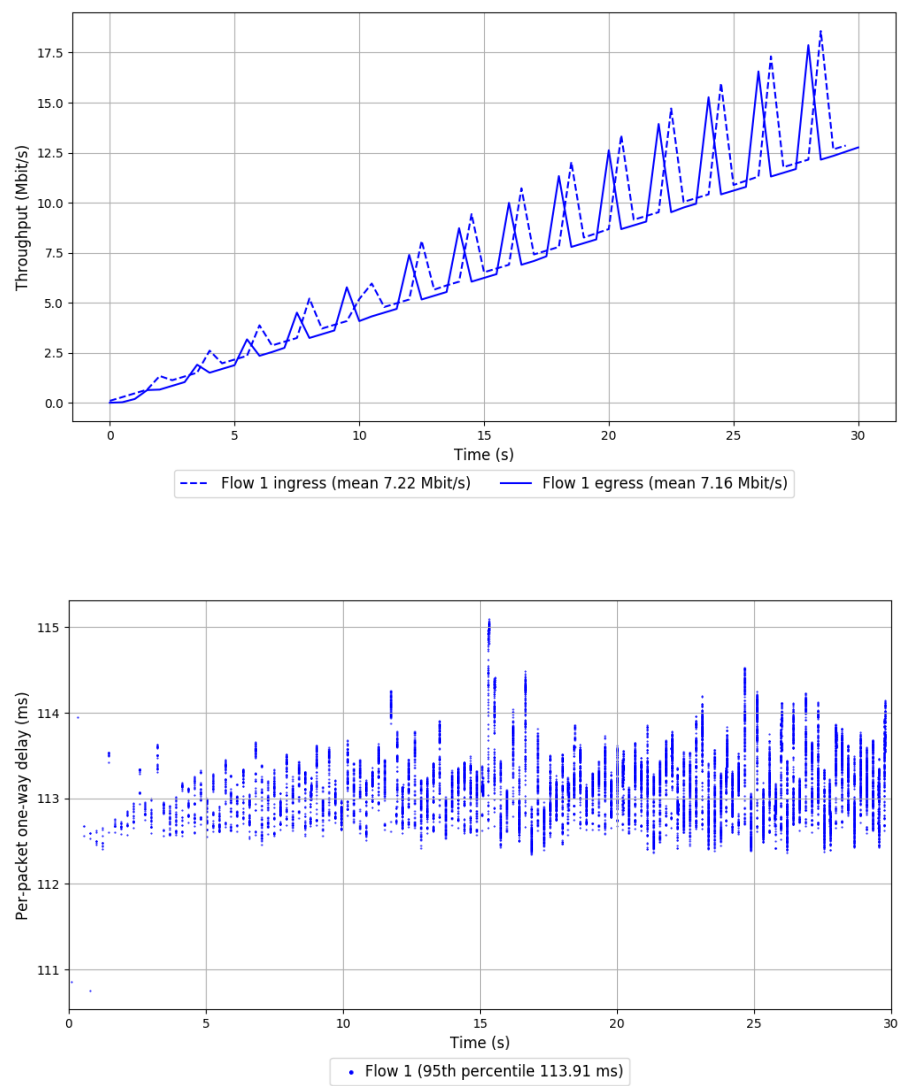


Run 1: Statistics of LEDBAT

Start at: 2018-07-24 20:37:28
End at: 2018-07-24 20:37:58
Local clock offset: 1.27 ms
Remote clock offset: -0.021 ms

Below is generated by plot.py at 2018-07-25 01:10:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 7.16 Mbit/s
95th percentile per-packet one-way delay: 113.909 ms
Loss rate: 1.50%
-- Flow 1:
Average throughput: 7.16 Mbit/s
95th percentile per-packet one-way delay: 113.909 ms
Loss rate: 1.50%

Run 1: Report of LEDBAT — Data Link

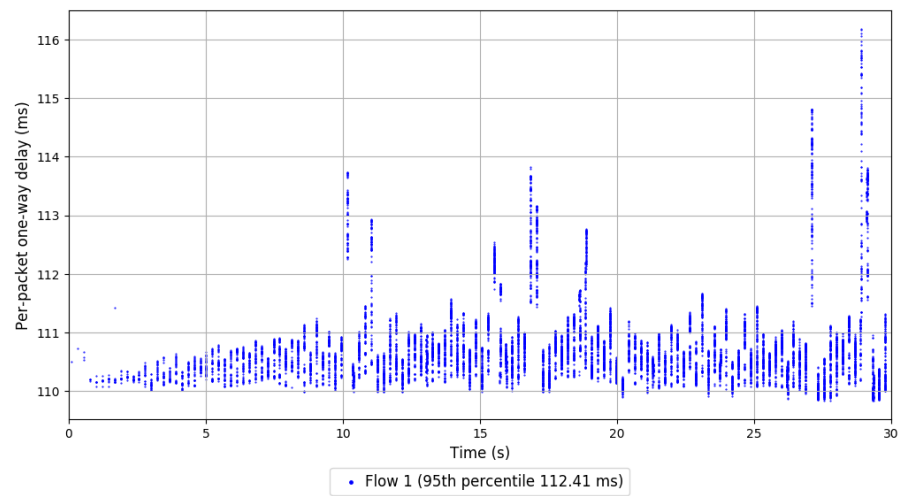
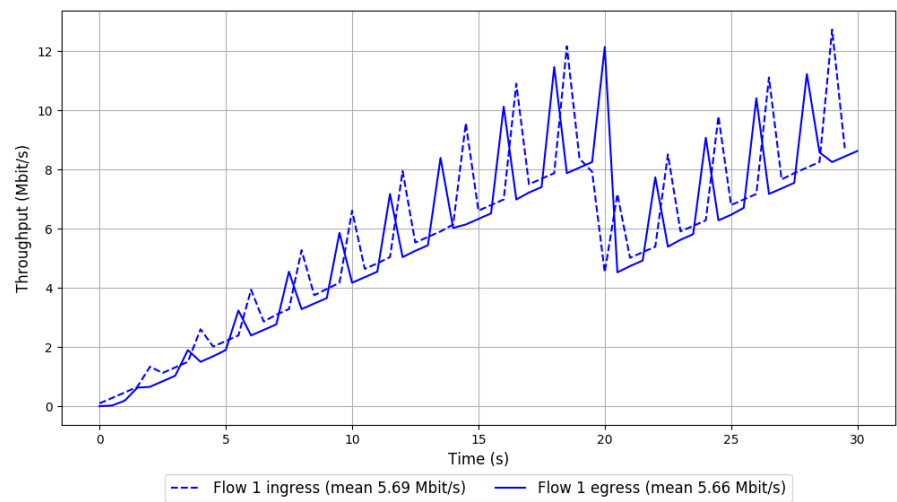


Run 2: Statistics of LEDBAT

Start at: 2018-07-24 20:59:51
End at: 2018-07-24 21:00:21
Local clock offset: -1.474 ms
Remote clock offset: -0.016 ms

Below is generated by plot.py at 2018-07-25 01:10:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 5.66 Mbit/s
95th percentile per-packet one-way delay: 112.414 ms
Loss rate: 1.29%
-- Flow 1:
Average throughput: 5.66 Mbit/s
95th percentile per-packet one-way delay: 112.414 ms
Loss rate: 1.29%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-07-24 21:22:30

End at: 2018-07-24 21:23:00

Local clock offset: -0.21 ms

Remote clock offset: -0.07 ms

Below is generated by plot.py at 2018-07-25 01:10:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.50 Mbit/s

95th percentile per-packet one-way delay: 110.744 ms

Loss rate: 1.57%

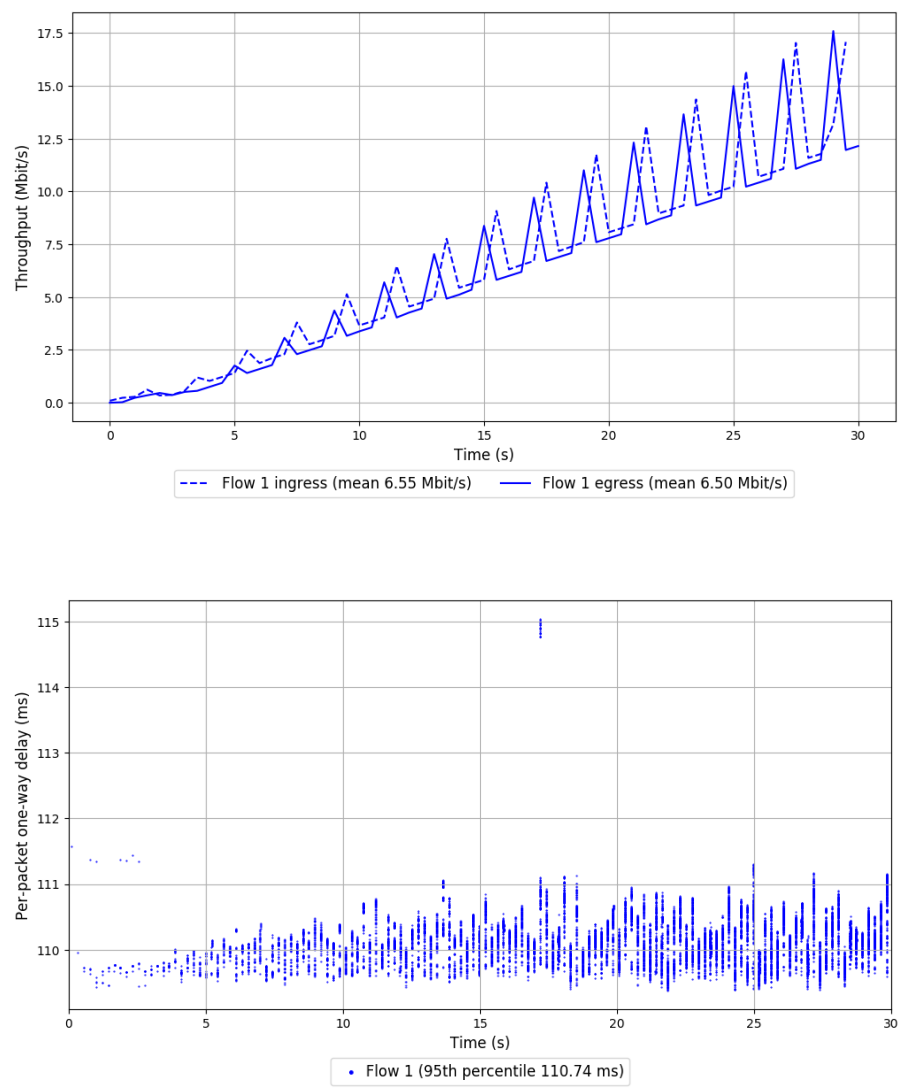
-- Flow 1:

Average throughput: 6.50 Mbit/s

95th percentile per-packet one-way delay: 110.744 ms

Loss rate: 1.57%

Run 3: Report of LEDBAT — Data Link

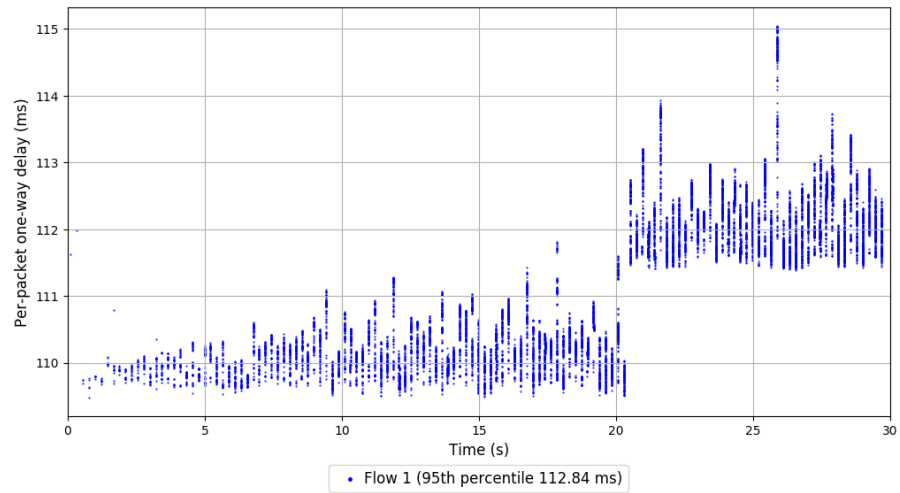
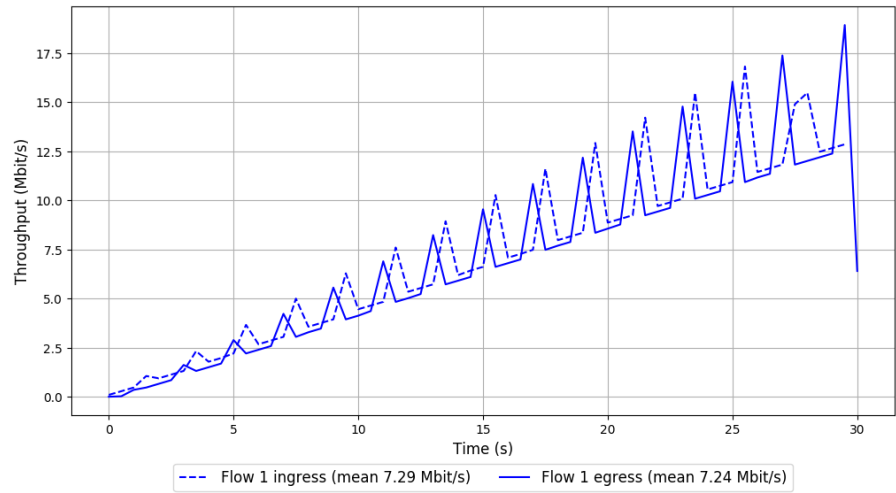


Run 4: Statistics of LEDBAT

Start at: 2018-07-24 21:44:50
End at: 2018-07-24 21:45:20
Local clock offset: -0.133 ms
Remote clock offset: -0.008 ms

Below is generated by plot.py at 2018-07-25 01:10:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 7.24 Mbit/s
95th percentile per-packet one-way delay: 112.845 ms
Loss rate: 1.48%
-- Flow 1:
Average throughput: 7.24 Mbit/s
95th percentile per-packet one-way delay: 112.845 ms
Loss rate: 1.48%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-07-24 22:07:23

End at: 2018-07-24 22:07:53

Local clock offset: -0.471 ms

Remote clock offset: 0.024 ms

Below is generated by plot.py at 2018-07-25 01:10:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.01 Mbit/s

95th percentile per-packet one-way delay: 112.024 ms

Loss rate: 0.80%

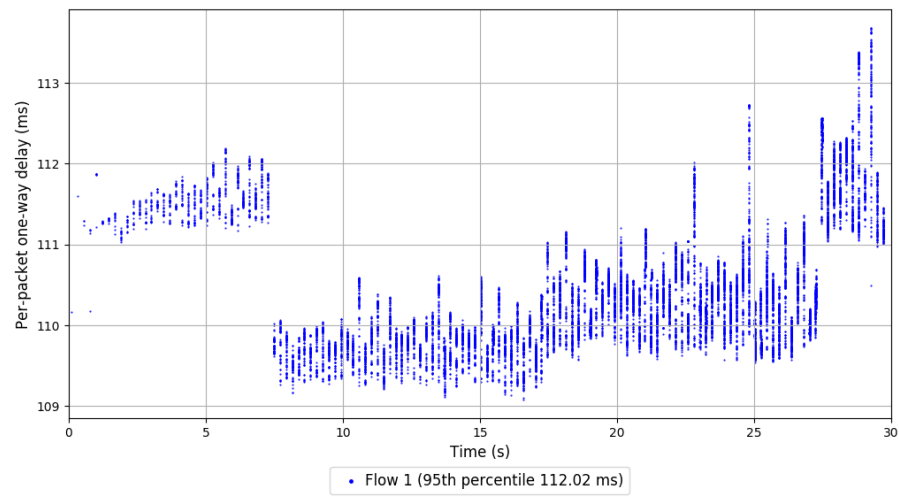
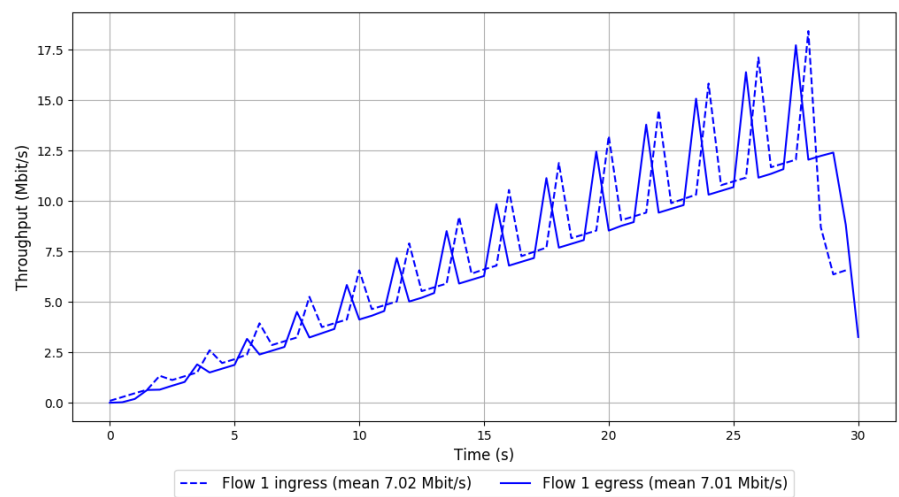
-- Flow 1:

Average throughput: 7.01 Mbit/s

95th percentile per-packet one-way delay: 112.024 ms

Loss rate: 0.80%

Run 5: Report of LEDBAT — Data Link

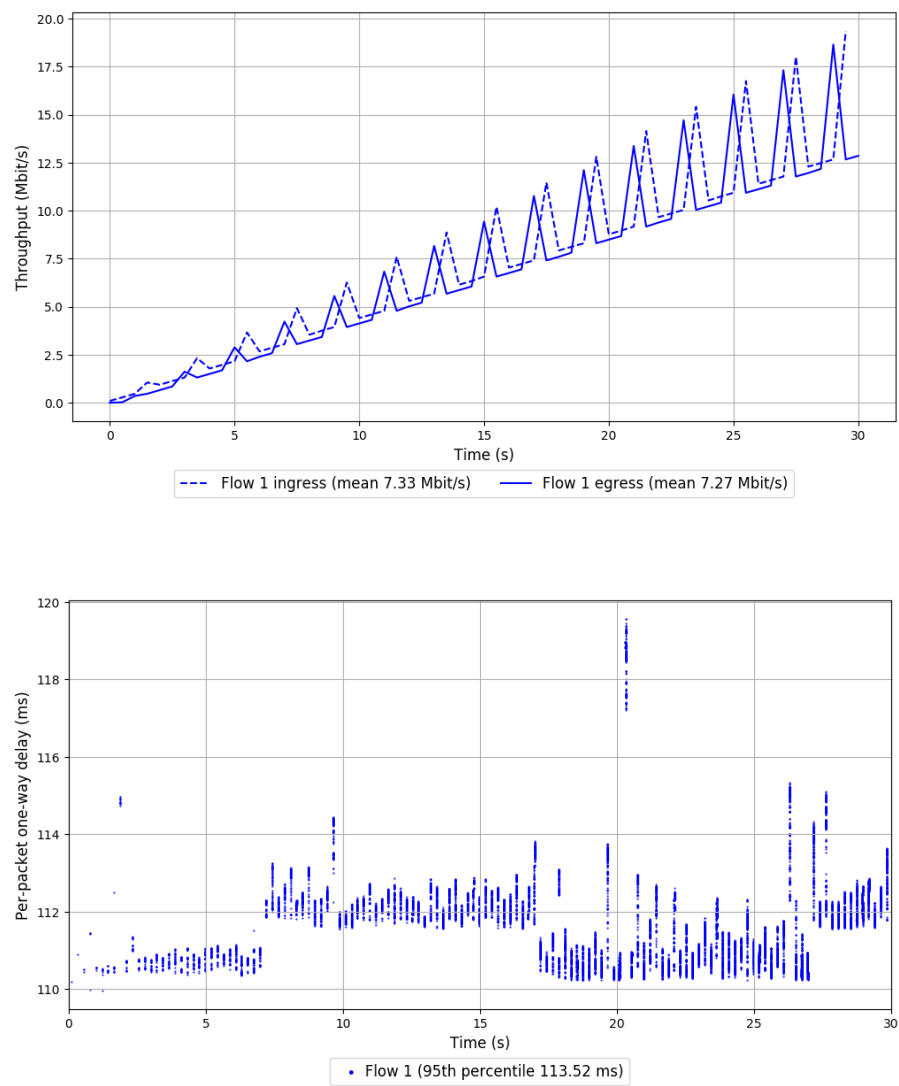


Run 6: Statistics of LEDBAT

Start at: 2018-07-24 22:29:53
End at: 2018-07-24 22:30:23
Local clock offset: 0.108 ms
Remote clock offset: -0.322 ms

Below is generated by plot.py at 2018-07-25 01:10:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 7.27 Mbit/s
95th percentile per-packet one-way delay: 113.515 ms
Loss rate: 1.48%
-- Flow 1:
Average throughput: 7.27 Mbit/s
95th percentile per-packet one-way delay: 113.515 ms
Loss rate: 1.48%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-07-24 22:52:20

End at: 2018-07-24 22:52:50

Local clock offset: -0.197 ms

Remote clock offset: 0.039 ms

Below is generated by plot.py at 2018-07-25 01:10:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.36 Mbit/s

95th percentile per-packet one-way delay: 111.516 ms

Loss rate: 1.48%

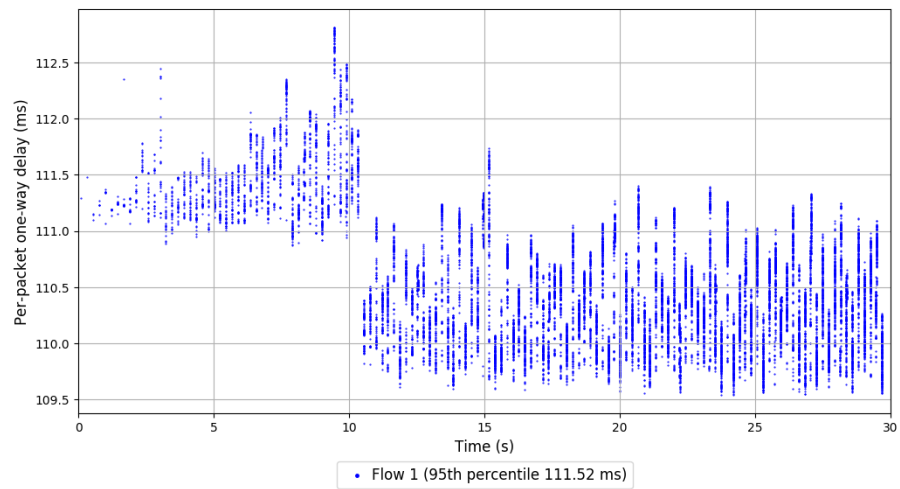
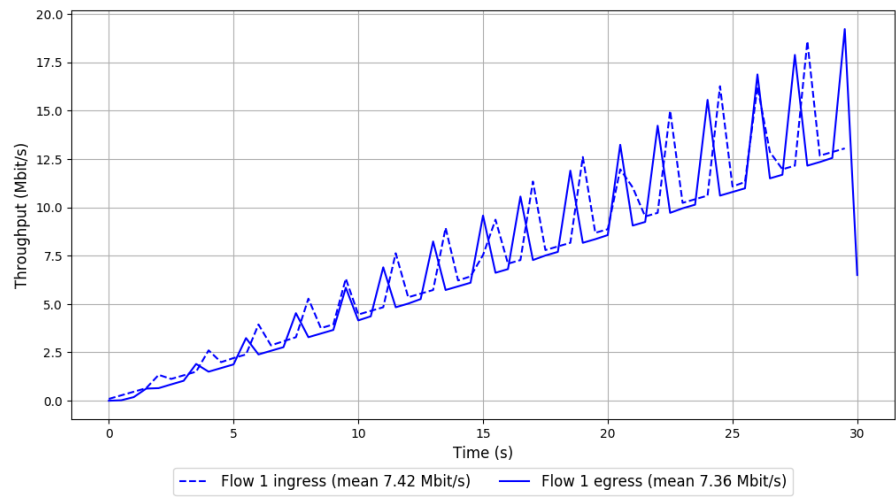
-- Flow 1:

Average throughput: 7.36 Mbit/s

95th percentile per-packet one-way delay: 111.516 ms

Loss rate: 1.48%

Run 7: Report of LEDBAT — Data Link

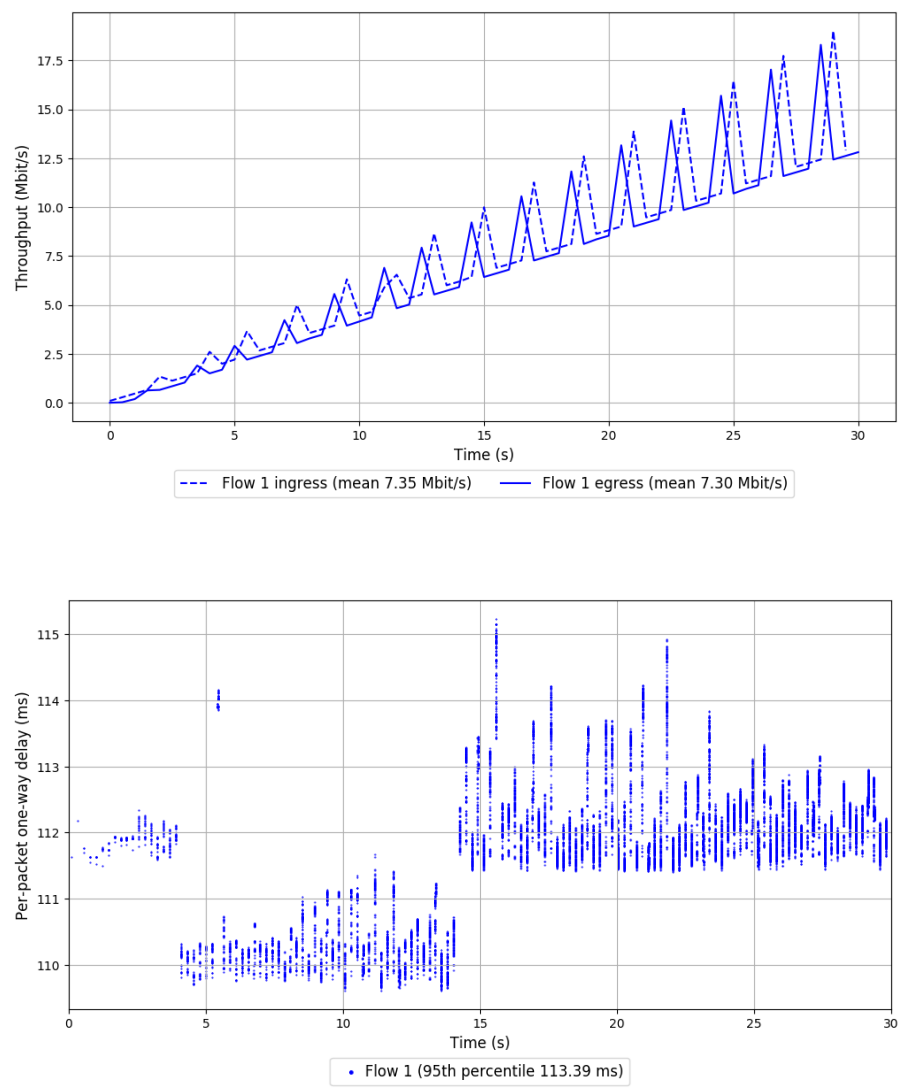


Run 8: Statistics of LEDBAT

Start at: 2018-07-24 23:15:16
End at: 2018-07-24 23:15:46
Local clock offset: 0.221 ms
Remote clock offset: -0.013 ms

Below is generated by plot.py at 2018-07-25 01:10:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 7.30 Mbit/s
95th percentile per-packet one-way delay: 113.394 ms
Loss rate: 1.47%
-- Flow 1:
Average throughput: 7.30 Mbit/s
95th percentile per-packet one-way delay: 113.394 ms
Loss rate: 1.47%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-07-24 23:38:03

End at: 2018-07-24 23:38:33

Local clock offset: -0.045 ms

Remote clock offset: 0.372 ms

Below is generated by plot.py at 2018-07-25 01:10:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.36 Mbit/s

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

Loss rate: 0.55%

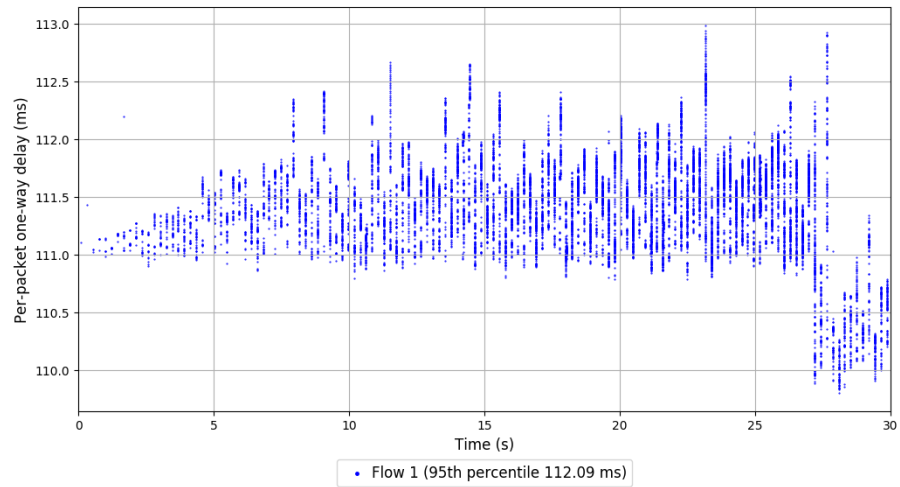
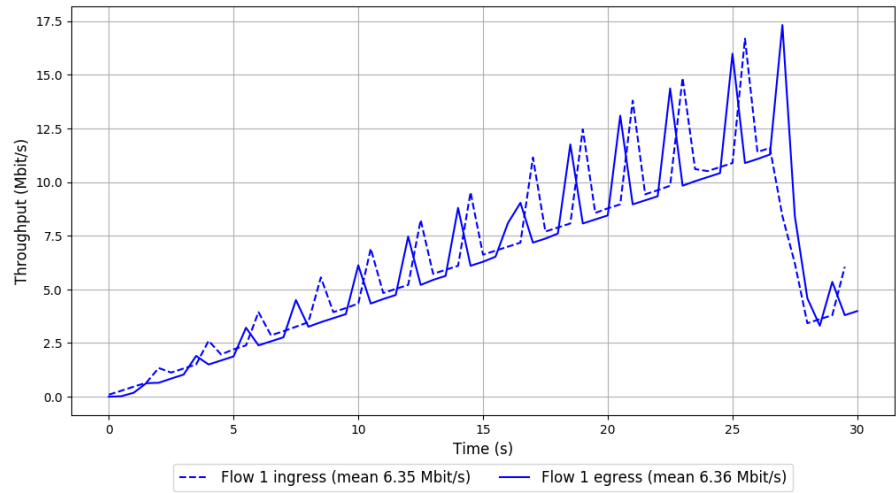
-- Flow 1:

Average throughput: 6.36 Mbit/s

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

Loss rate: 0.55%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-07-25 00:00:59

End at: 2018-07-25 00:01:29

Local clock offset: -0.125 ms

Remote clock offset: 0.042 ms

Below is generated by plot.py at 2018-07-25 01:10:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.31 Mbit/s

95th percentile per-packet one-way delay: 112.612 ms

Loss rate: 1.48%

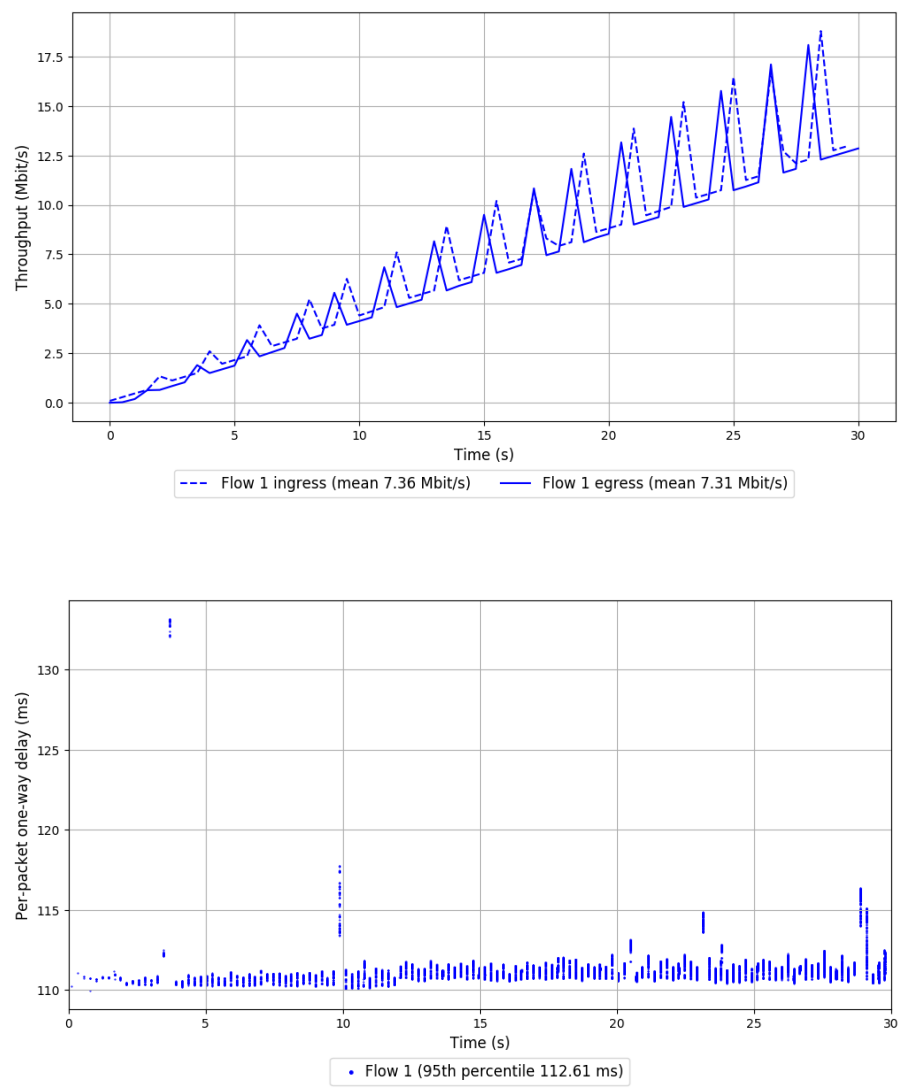
-- Flow 1:

Average throughput: 7.31 Mbit/s

95th percentile per-packet one-way delay: 112.612 ms

Loss rate: 1.48%

Run 10: Report of LEDBAT — Data Link

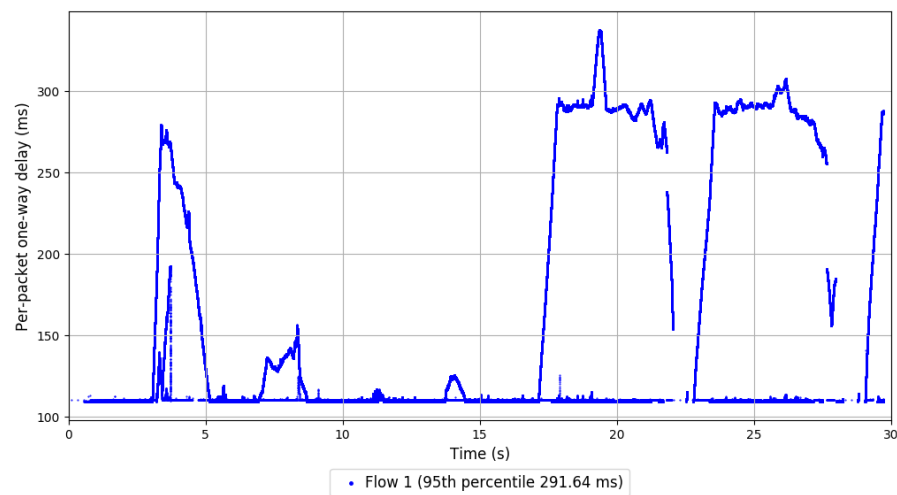
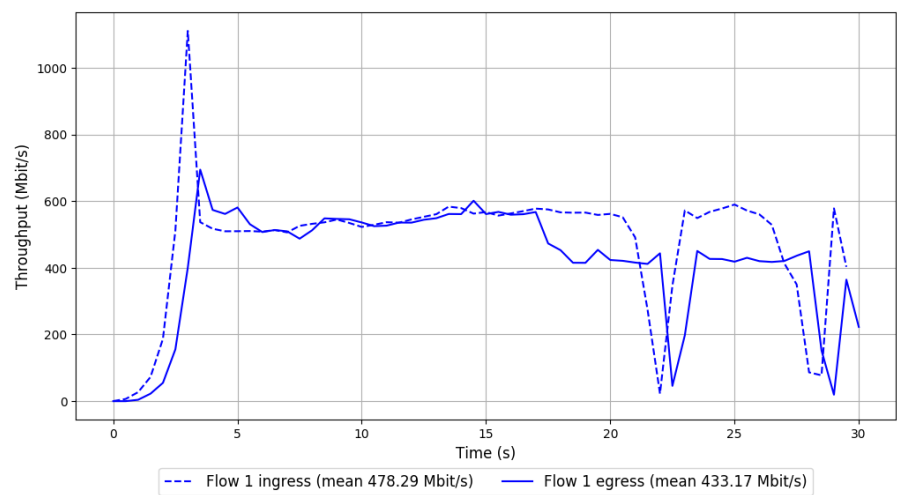


```
Run 1: Statistics of PCC-Allegro

Start at: 2018-07-24 20:28:29
End at: 2018-07-24 20:28:59
Local clock offset: -0.371 ms
Remote clock offset: 0.344 ms

# Below is generated by plot.py at 2018-07-25 01:11:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 433.17 Mbit/s
95th percentile per-packet one-way delay: 291.644 ms
Loss rate: 10.11%
-- Flow 1:
Average throughput: 433.17 Mbit/s
95th percentile per-packet one-way delay: 291.644 ms
Loss rate: 10.11%
```

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-07-24 20:50:58

End at: 2018-07-24 20:51:28

Local clock offset: 0.068 ms

Remote clock offset: -0.364 ms

Below is generated by plot.py at 2018-07-25 01:12:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 508.18 Mbit/s

95th percentile per-packet one-way delay: 191.961 ms

Loss rate: 2.08%

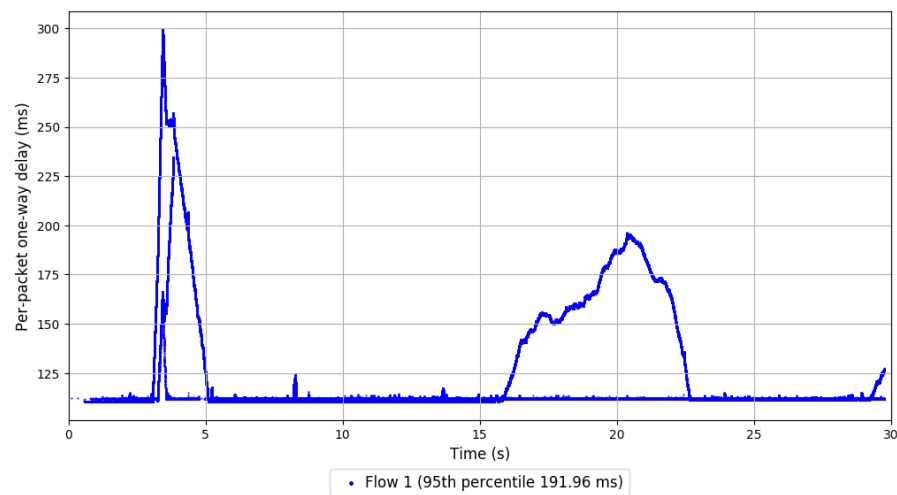
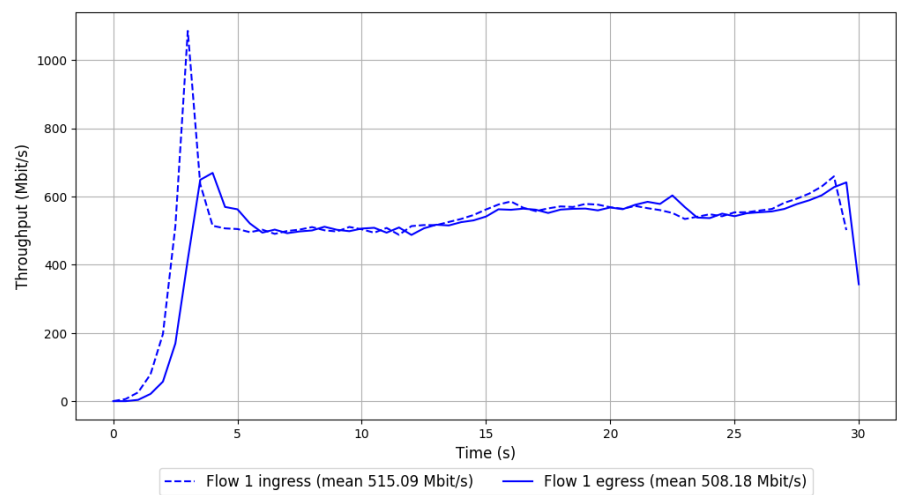
-- Flow 1:

Average throughput: 508.18 Mbit/s

95th percentile per-packet one-way delay: 191.961 ms

Loss rate: 2.08%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-07-24 21:13:36

End at: 2018-07-24 21:14:06

Local clock offset: -0.167 ms

Remote clock offset: 0.306 ms

Below is generated by plot.py at 2018-07-25 01:12:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 509.55 Mbit/s

95th percentile per-packet one-way delay: 243.327 ms

Loss rate: 2.70%

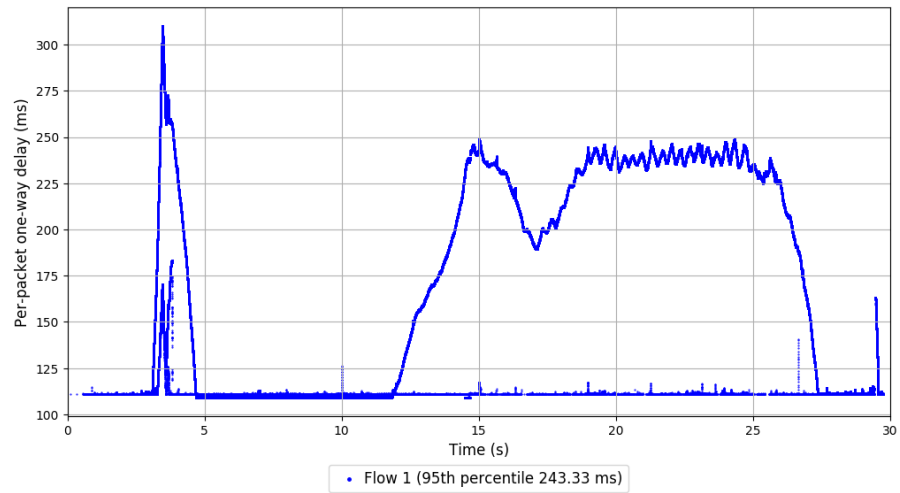
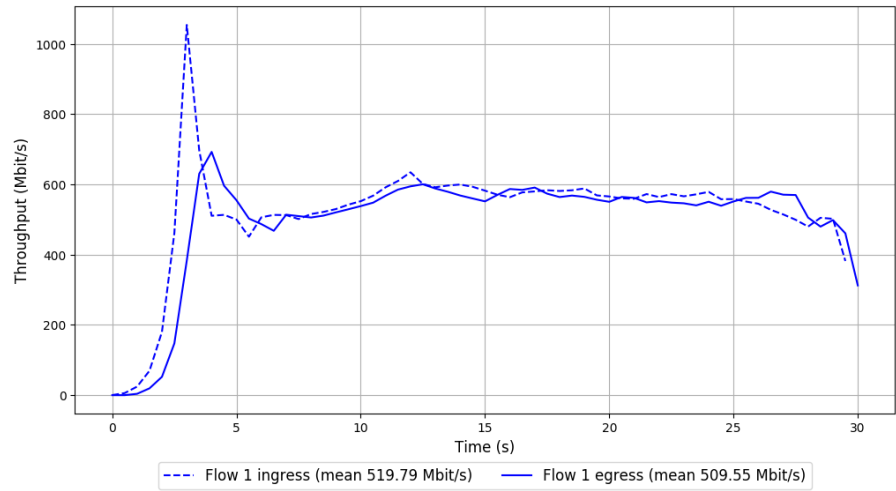
-- Flow 1:

Average throughput: 509.55 Mbit/s

95th percentile per-packet one-way delay: 243.327 ms

Loss rate: 2.70%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-07-24 21:36:02

End at: 2018-07-24 21:36:32

Local clock offset: 1.111 ms

Remote clock offset: -0.048 ms

Below is generated by plot.py at 2018-07-25 01:12:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 440.80 Mbit/s

95th percentile per-packet one-way delay: 280.675 ms

Loss rate: 5.07%

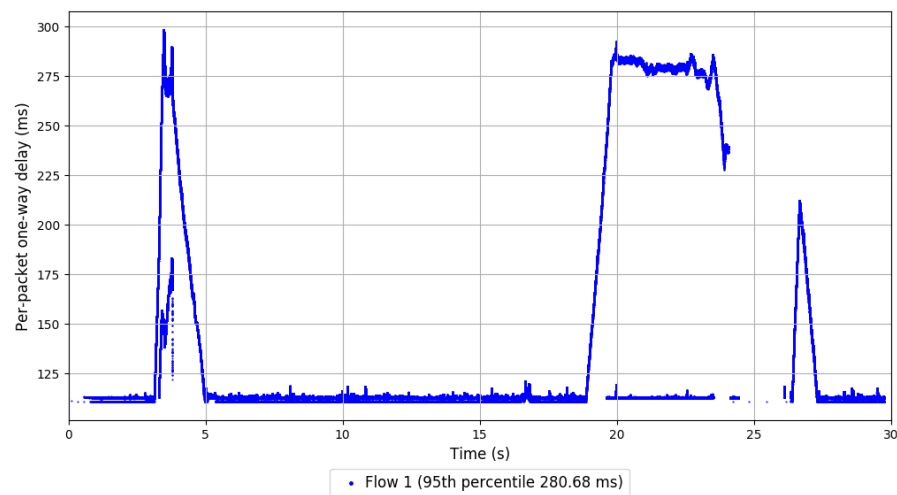
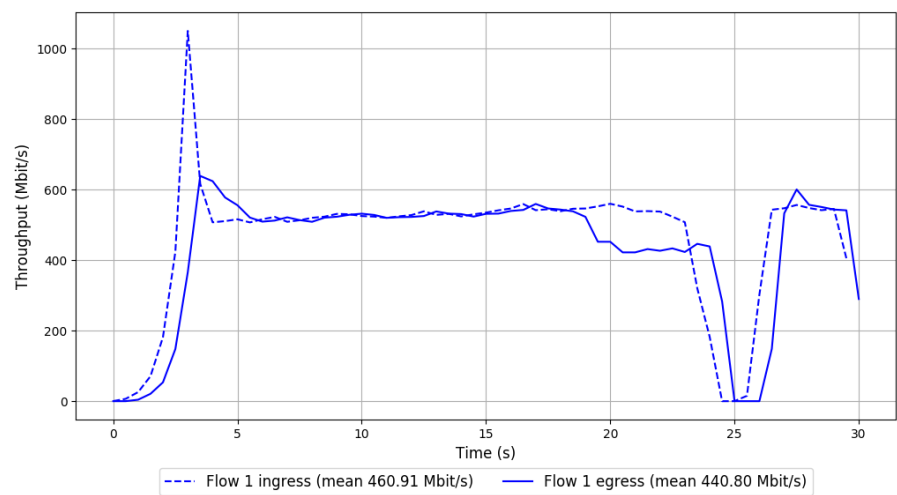
-- Flow 1:

Average throughput: 440.80 Mbit/s

95th percentile per-packet one-way delay: 280.675 ms

Loss rate: 5.07%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-07-24 21:58:28

End at: 2018-07-24 21:58:58

Local clock offset: 1.04 ms

Remote clock offset: 0.007 ms

Below is generated by plot.py at 2018-07-25 01:17:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 526.53 Mbit/s

95th percentile per-packet one-way delay: 231.157 ms

Loss rate: 2.29%

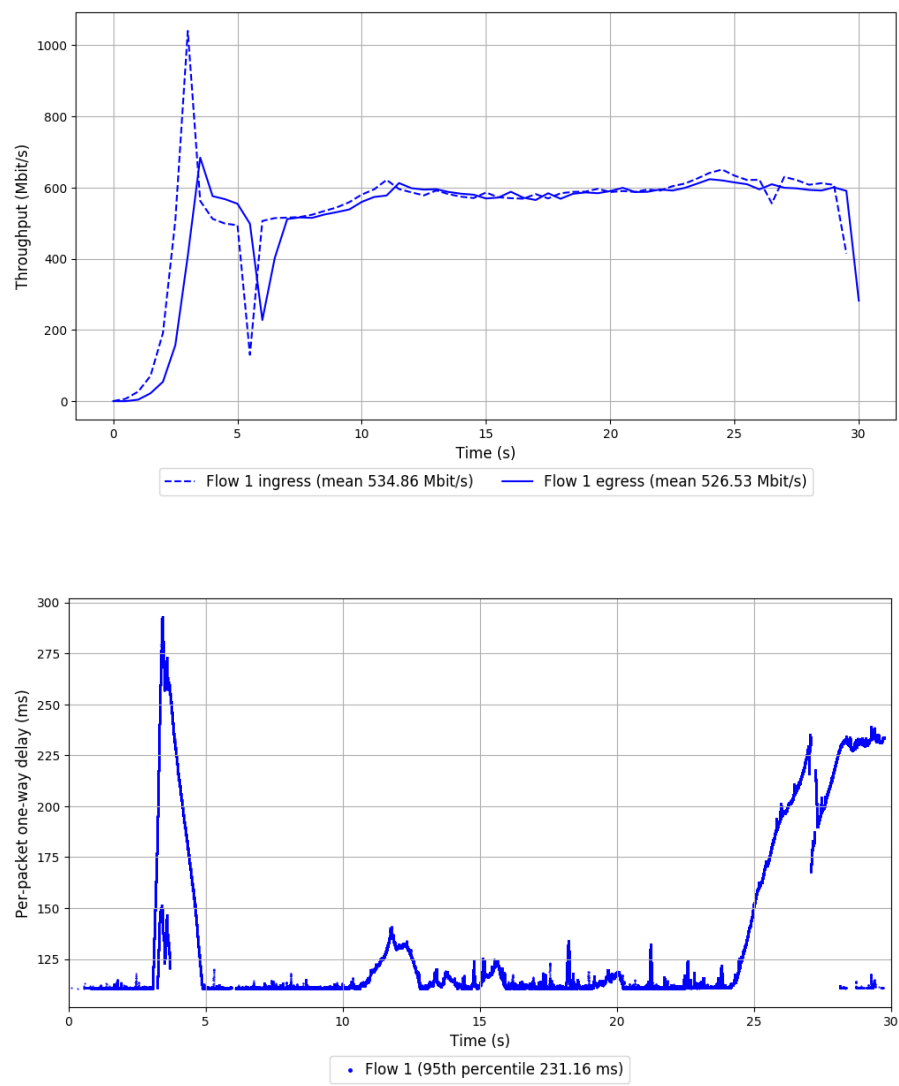
-- Flow 1:

Average throughput: 526.53 Mbit/s

95th percentile per-packet one-way delay: 231.157 ms

Loss rate: 2.29%

Run 5: Report of PCC-Allegro — Data Link



Run 6: Statistics of PCC-Allegro

Start at: 2018-07-24 22:21:05

End at: 2018-07-24 22:21:35

Local clock offset: 0.122 ms

Remote clock offset: 0.037 ms

Below is generated by plot.py at 2018-07-25 01:17:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 505.95 Mbit/s

95th percentile per-packet one-way delay: 239.059 ms

Loss rate: 2.14%

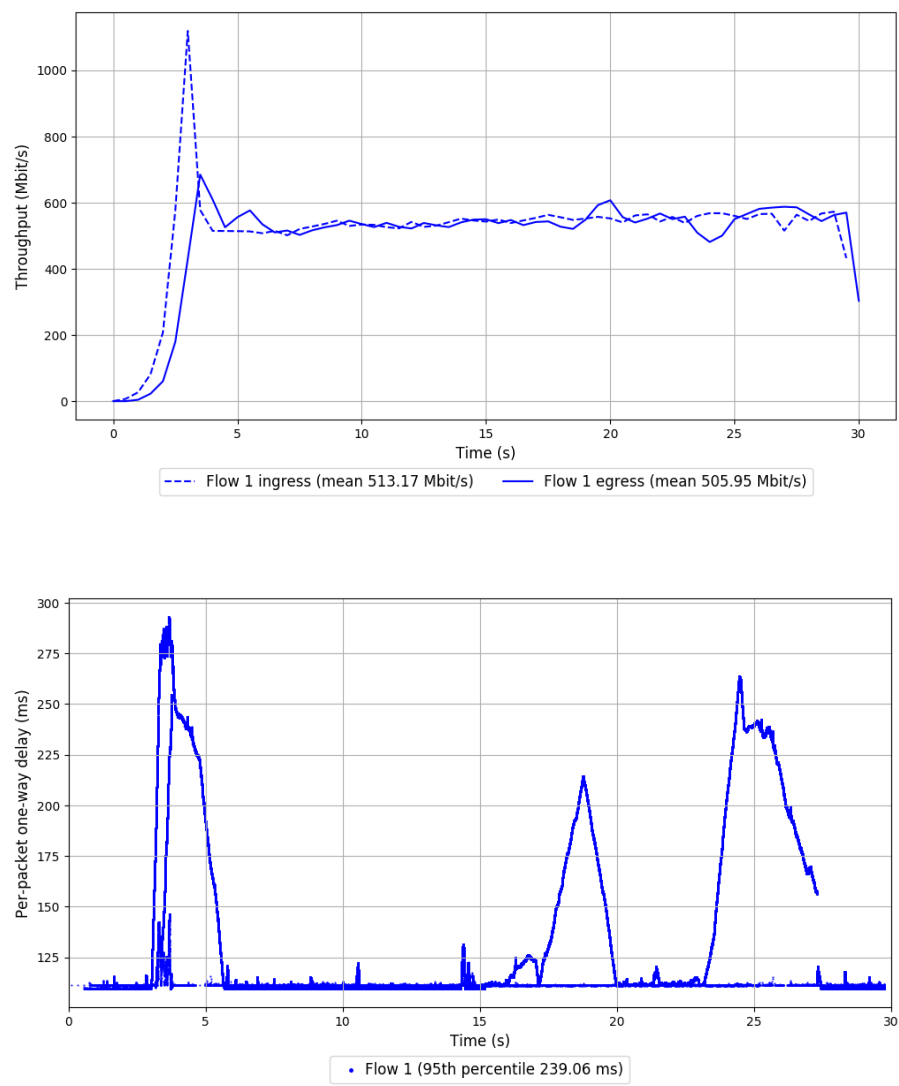
-- Flow 1:

Average throughput: 505.95 Mbit/s

95th percentile per-packet one-way delay: 239.059 ms

Loss rate: 2.14%

Run 6: Report of PCC-Allegro — Data Link



Run 7: Statistics of PCC-Allegro

Start at: 2018-07-24 22:43:31

End at: 2018-07-24 22:44:01

Local clock offset: -0.027 ms

Remote clock offset: 0.011 ms

Below is generated by plot.py at 2018-07-25 01:18:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 486.68 Mbit/s

95th percentile per-packet one-way delay: 275.853 ms

Loss rate: 4.90%

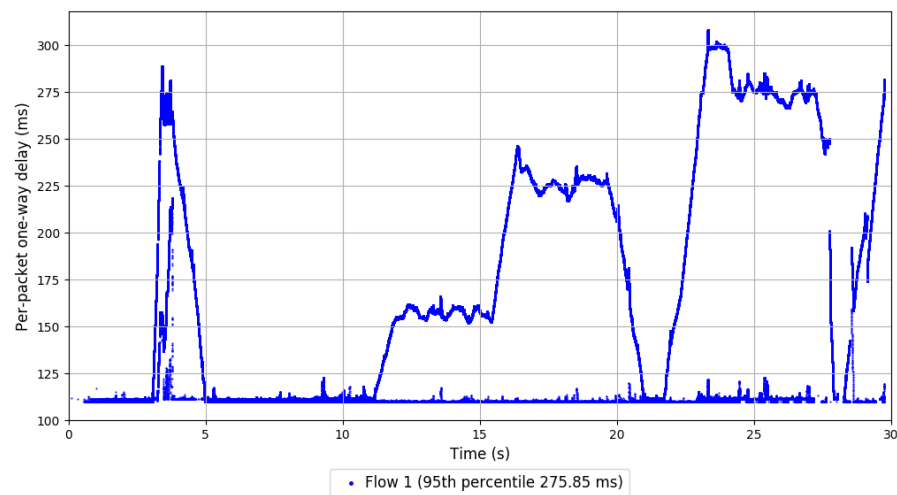
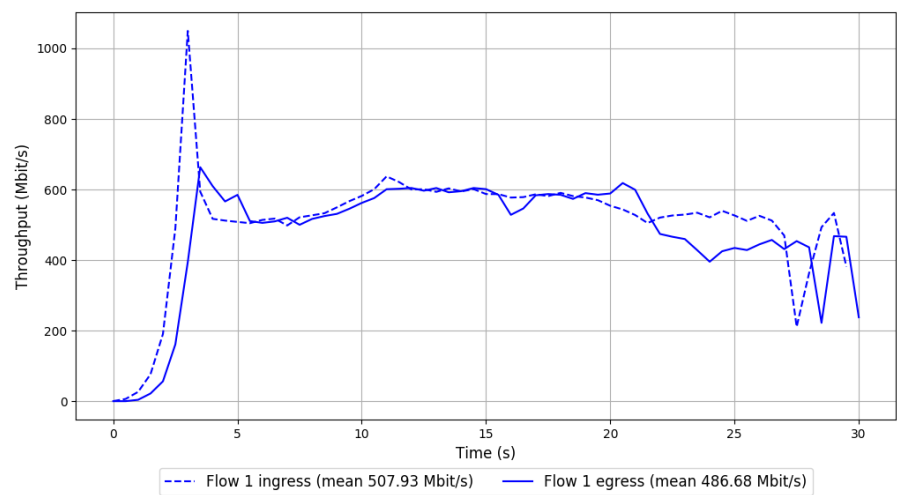
-- Flow 1:

Average throughput: 486.68 Mbit/s

95th percentile per-packet one-way delay: 275.853 ms

Loss rate: 4.90%

Run 7: Report of PCC-Allegro — Data Link

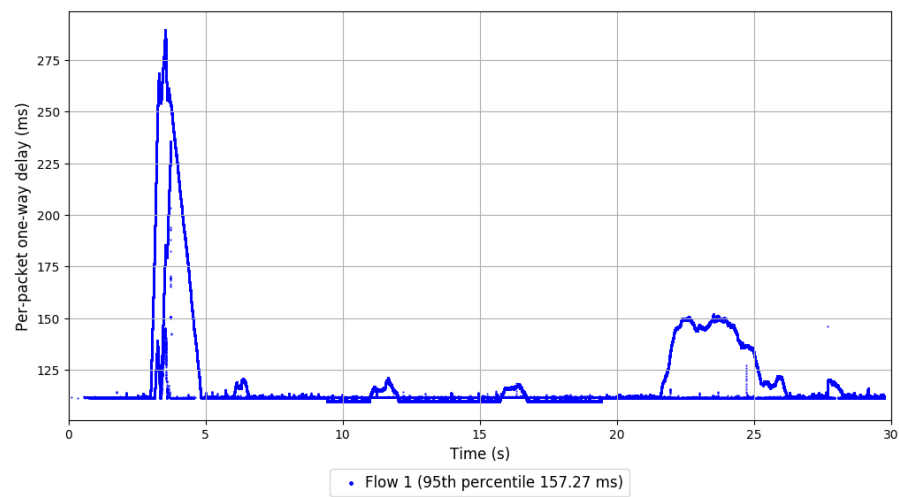
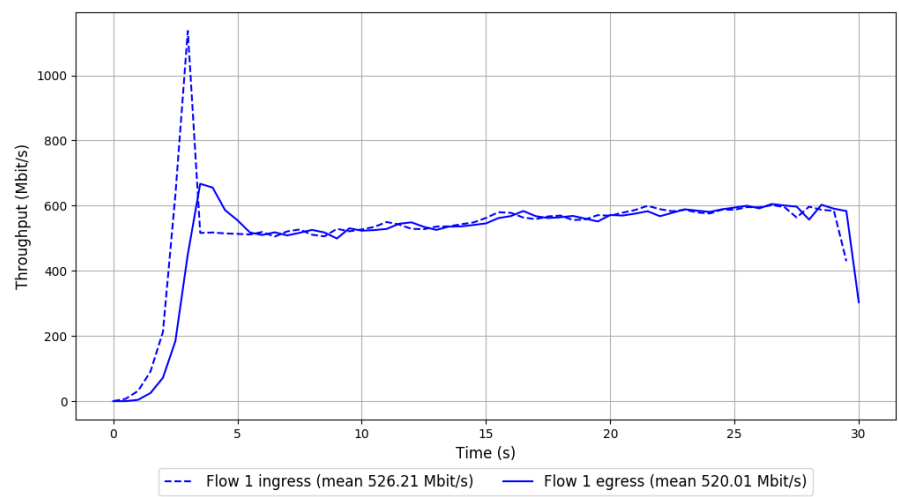


Run 8: Statistics of PCC-Allegro

Start at: 2018-07-24 23:06:21
End at: 2018-07-24 23:06:51
Local clock offset: -0.103 ms
Remote clock offset: -0.411 ms

Below is generated by plot.py at 2018-07-25 01:19:27
Datalink statistics
-- Total of 1 flow:
Average throughput: 520.01 Mbit/s
95th percentile per-packet one-way delay: 157.266 ms
Loss rate: 1.91%
-- Flow 1:
Average throughput: 520.01 Mbit/s
95th percentile per-packet one-way delay: 157.266 ms
Loss rate: 1.91%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-07-24 23:29:14

End at: 2018-07-24 23:29:44

Local clock offset: -0.084 ms

Remote clock offset: -0.006 ms

Below is generated by plot.py at 2018-07-25 01:20:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 499.95 Mbit/s

95th percentile per-packet one-way delay: 257.965 ms

Loss rate: 3.99%

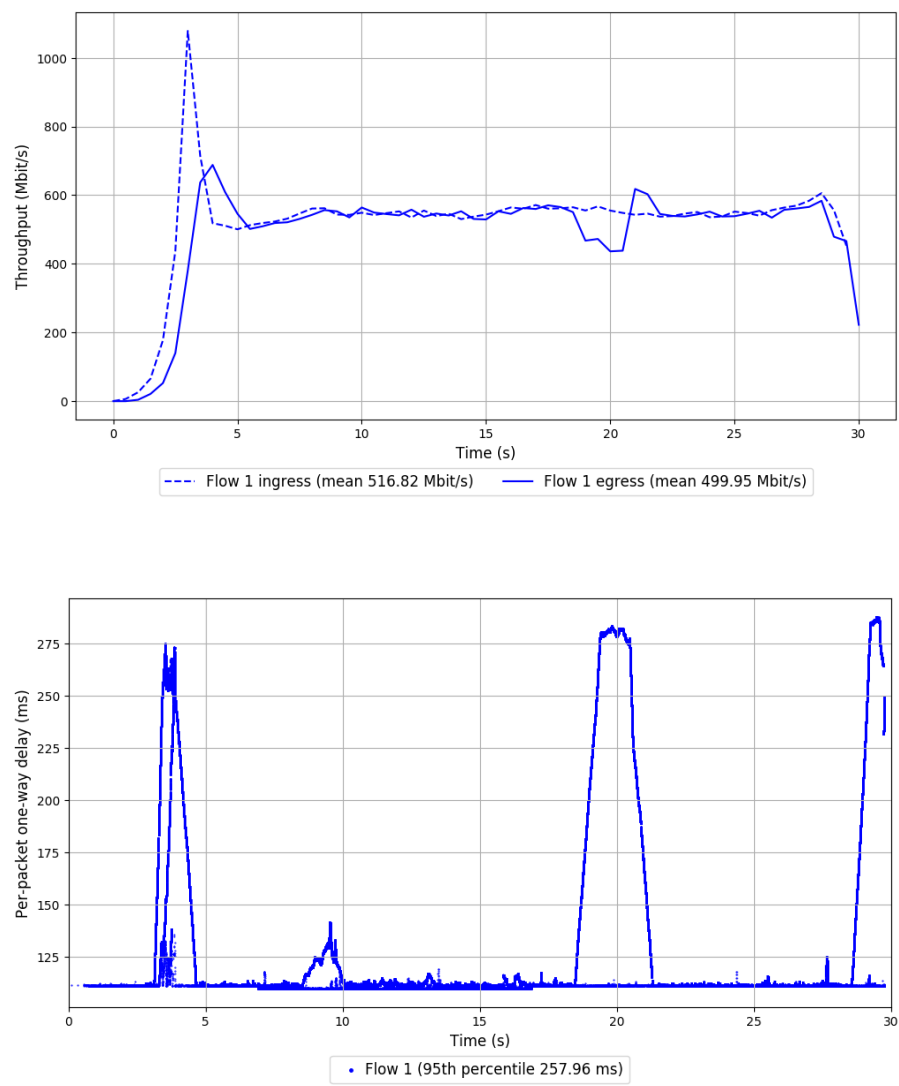
-- Flow 1:

Average throughput: 499.95 Mbit/s

95th percentile per-packet one-way delay: 257.965 ms

Loss rate: 3.99%

Run 9: Report of PCC-Allegro — Data Link

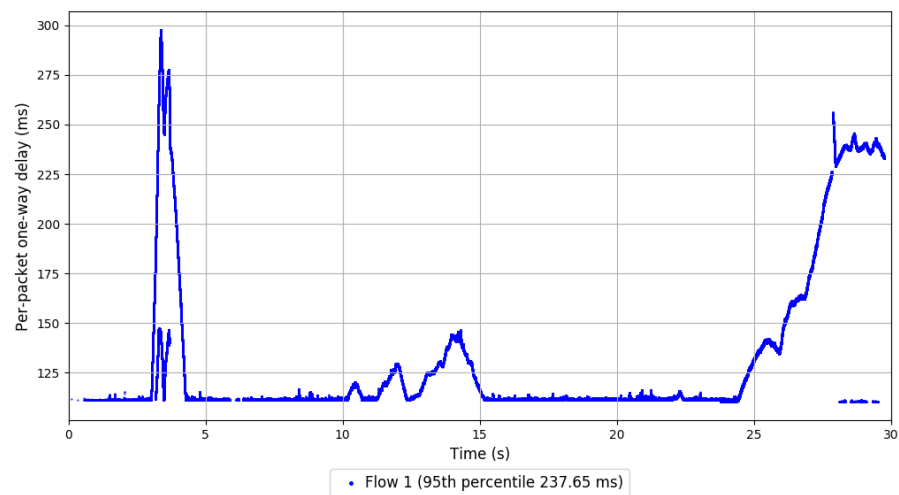
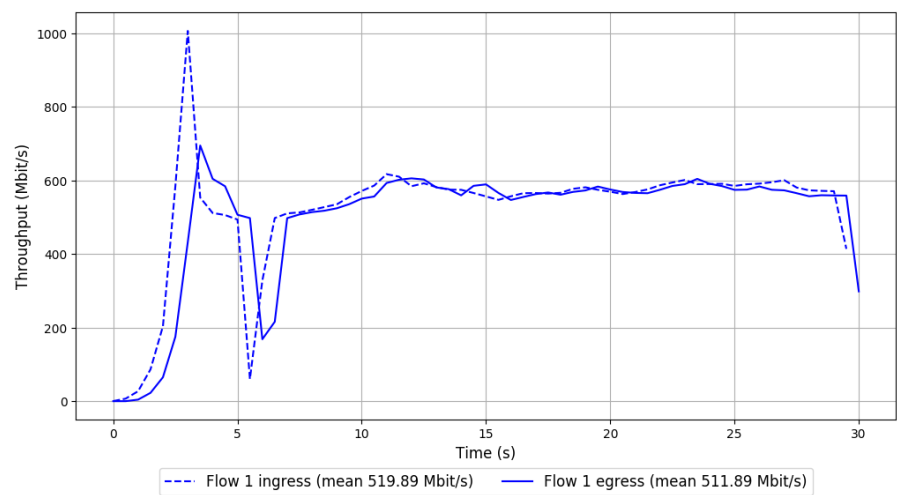


Run 10: Statistics of PCC-Allegro

Start at: 2018-07-24 23:51:57
End at: 2018-07-24 23:52:27
Local clock offset: -0.001 ms
Remote clock offset: -0.002 ms

Below is generated by plot.py at 2018-07-25 01:21:13
Datalink statistics
-- Total of 1 flow:
Average throughput: 511.89 Mbit/s
95th percentile per-packet one-way delay: 237.647 ms
Loss rate: 2.27%
-- Flow 1:
Average throughput: 511.89 Mbit/s
95th percentile per-packet one-way delay: 237.647 ms
Loss rate: 2.27%

Run 10: Report of PCC-Allegro — Data Link

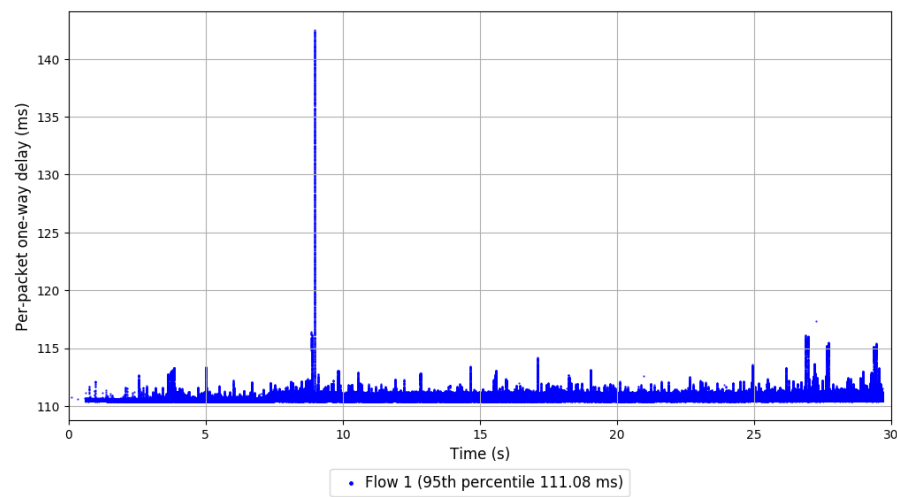
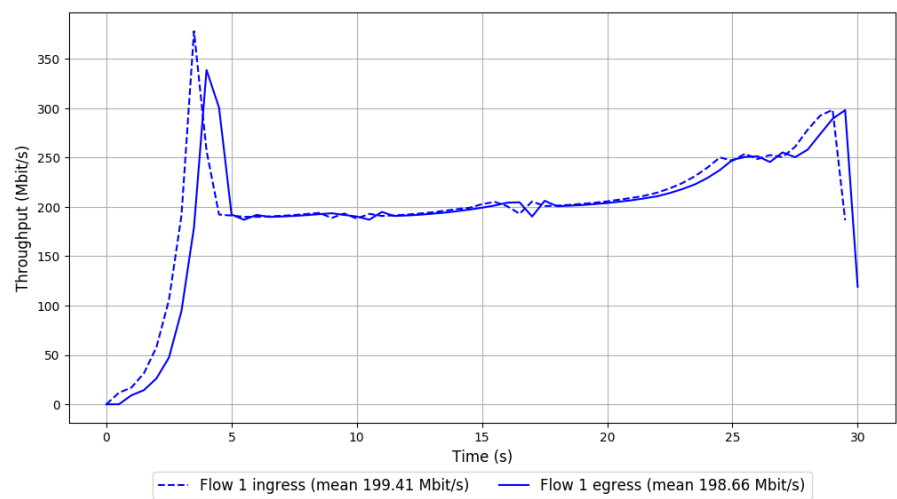


```
Run 1: Statistics of PCC-Expr

Start at: 2018-07-24 20:39:53
End at: 2018-07-24 20:40:23
Local clock offset: -0.293 ms
Remote clock offset: 0.335 ms

# Below is generated by plot.py at 2018-07-25 01:21:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 198.66 Mbit/s
95th percentile per-packet one-way delay: 111.085 ms
Loss rate: 1.12%
-- Flow 1:
Average throughput: 198.66 Mbit/s
95th percentile per-packet one-way delay: 111.085 ms
Loss rate: 1.12%
```

Run 1: Report of PCC-Expr — Data Link

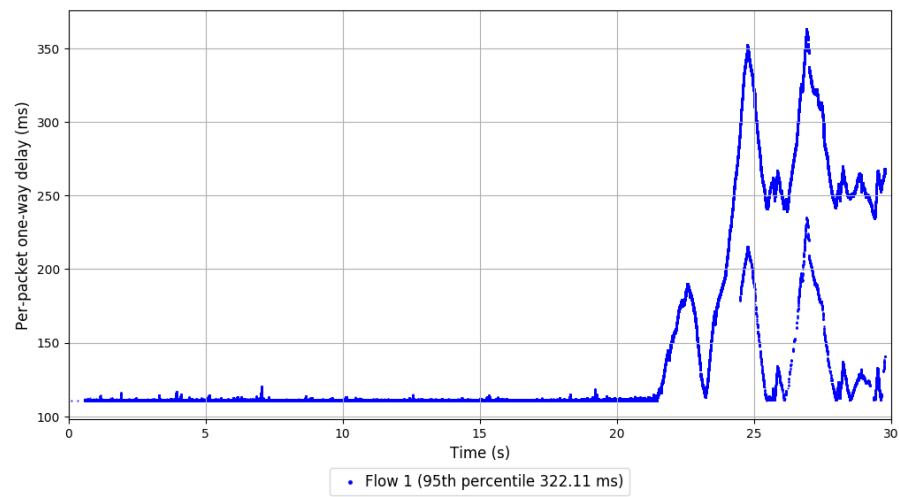
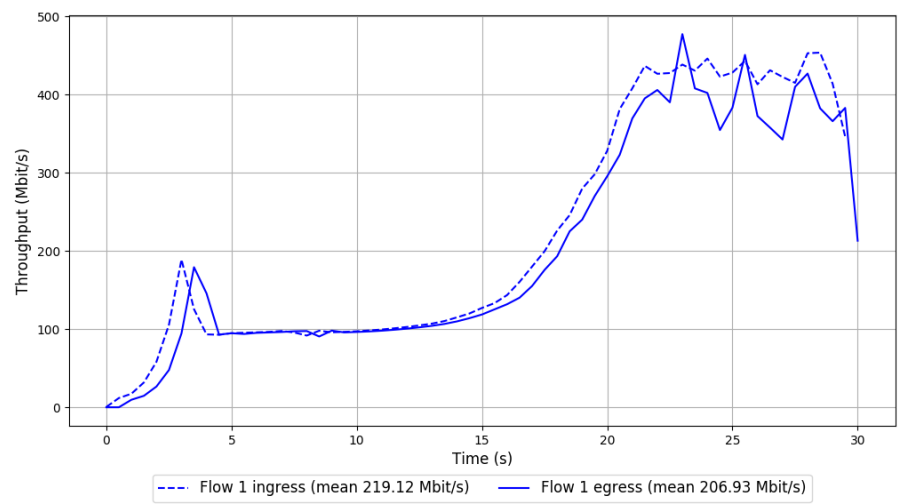


Run 2: Statistics of PCC-Expr

Start at: 2018-07-24 21:02:22
End at: 2018-07-24 21:02:52
Local clock offset: -0.243 ms
Remote clock offset: -0.008 ms

Below is generated by plot.py at 2018-07-25 01:21:13
Datalink statistics
-- Total of 1 flow:
Average throughput: 206.93 Mbit/s
95th percentile per-packet one-way delay: 322.111 ms
Loss rate: 6.27%
-- Flow 1:
Average throughput: 206.93 Mbit/s
95th percentile per-packet one-way delay: 322.111 ms
Loss rate: 6.27%

Run 2: Report of PCC-Expr — Data Link

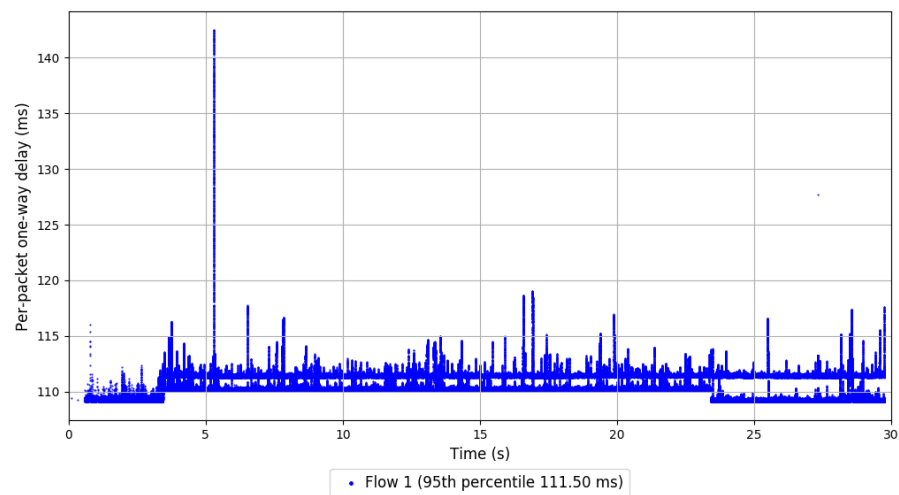
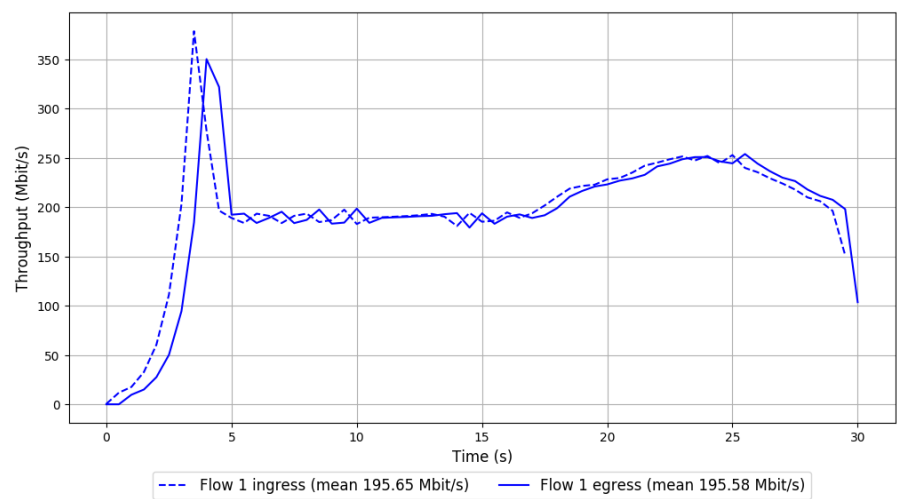


Run 3: Statistics of PCC-Expr

Start at: 2018-07-24 21:24:57
End at: 2018-07-24 21:25:27
Local clock offset: -0.308 ms
Remote clock offset: -0.175 ms

Below is generated by plot.py at 2018-07-25 01:23:12
Datalink statistics
-- Total of 1 flow:
Average throughput: 195.58 Mbit/s
95th percentile per-packet one-way delay: 111.504 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 195.58 Mbit/s
95th percentile per-packet one-way delay: 111.504 ms
Loss rate: 0.78%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2018-07-24 21:47:21

End at: 2018-07-24 21:47:51

Local clock offset: -0.061 ms

Remote clock offset: -0.34 ms

Below is generated by plot.py at 2018-07-25 01:23:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 186.86 Mbit/s

95th percentile per-packet one-way delay: 111.913 ms

Loss rate: 0.97%

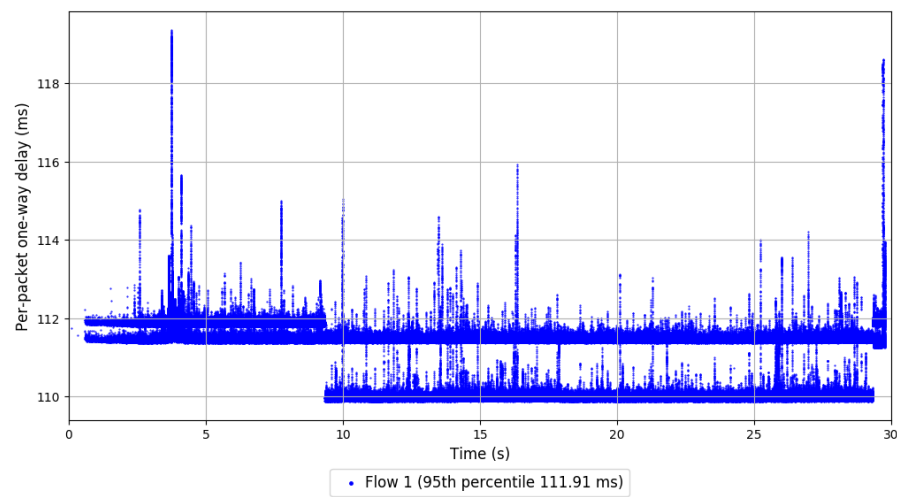
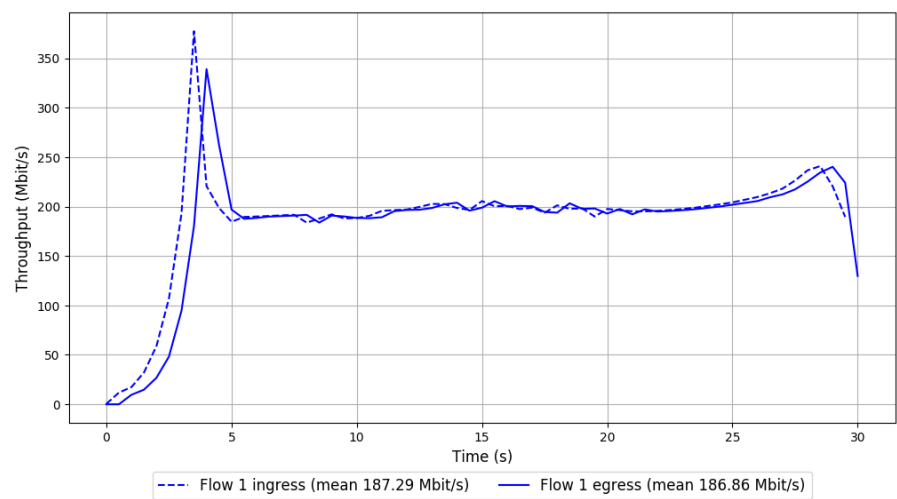
-- Flow 1:

Average throughput: 186.86 Mbit/s

95th percentile per-packet one-way delay: 111.913 ms

Loss rate: 0.97%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2018-07-24 22:09:49

End at: 2018-07-24 22:10:19

Local clock offset: -0.099 ms

Remote clock offset: 0.044 ms

Below is generated by plot.py at 2018-07-25 01:24:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 206.03 Mbit/s

95th percentile per-packet one-way delay: 111.454 ms

Loss rate: 0.53%

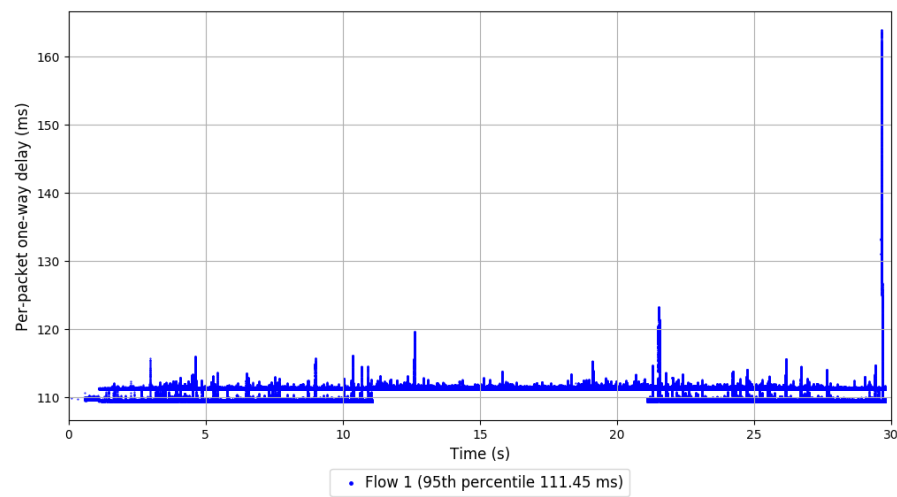
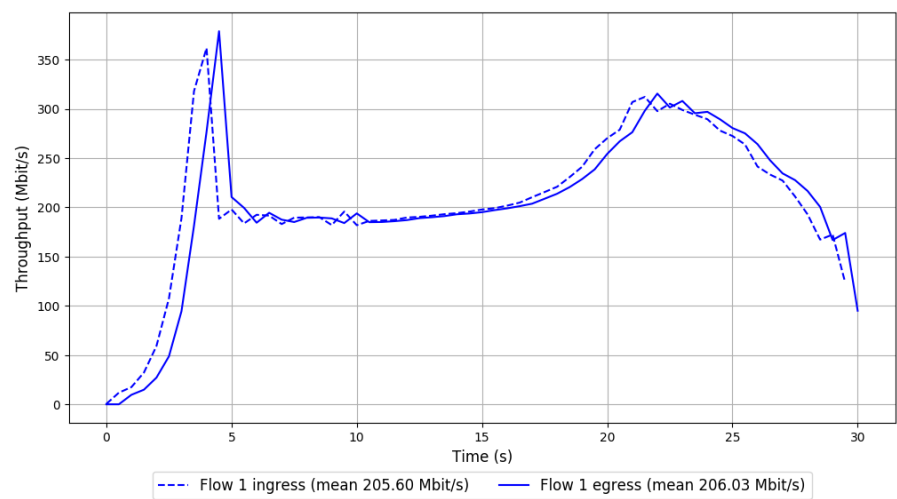
-- Flow 1:

Average throughput: 206.03 Mbit/s

95th percentile per-packet one-way delay: 111.454 ms

Loss rate: 0.53%

Run 5: Report of PCC-Expr — Data Link



Run 6: Statistics of PCC-Expr

Start at: 2018-07-24 22:32:21

End at: 2018-07-24 22:32:51

Local clock offset: 0.189 ms

Remote clock offset: 0.398 ms

Below is generated by plot.py at 2018-07-25 01:24:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 181.40 Mbit/s

95th percentile per-packet one-way delay: 111.166 ms

Loss rate: 0.80%

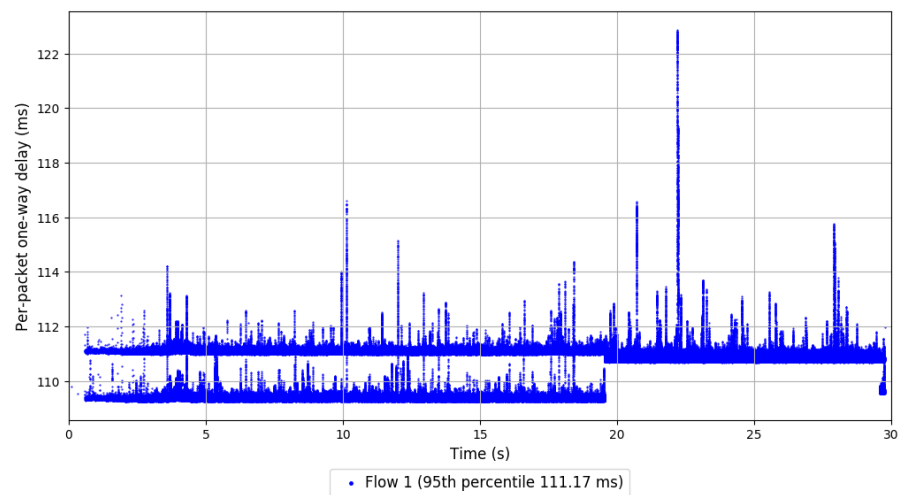
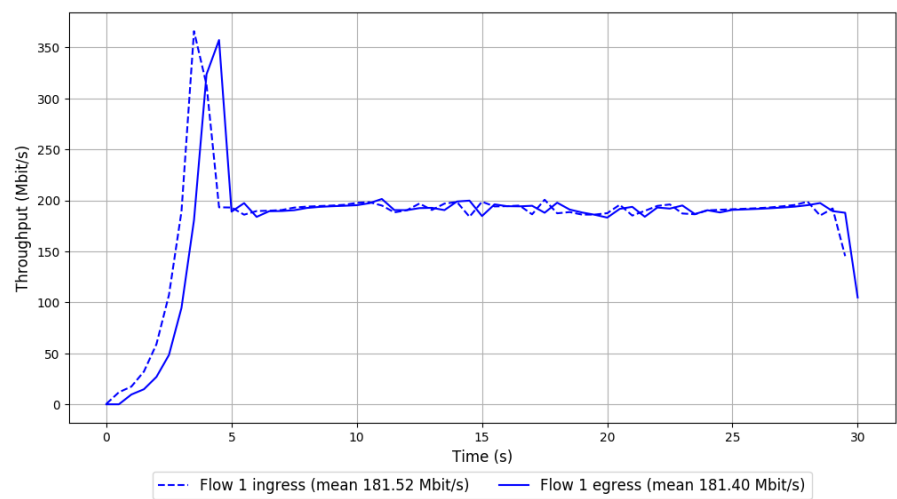
-- Flow 1:

Average throughput: 181.40 Mbit/s

95th percentile per-packet one-way delay: 111.166 ms

Loss rate: 0.80%

Run 6: Report of PCC-Expr — Data Link



Run 7: Statistics of PCC-Expr

Start at: 2018-07-24 22:54:52

End at: 2018-07-24 22:55:22

Local clock offset: 0.265 ms

Remote clock offset: 0.022 ms

Below is generated by plot.py at 2018-07-25 01:29:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 308.67 Mbit/s

95th percentile per-packet one-way delay: 284.243 ms

Loss rate: 3.38%

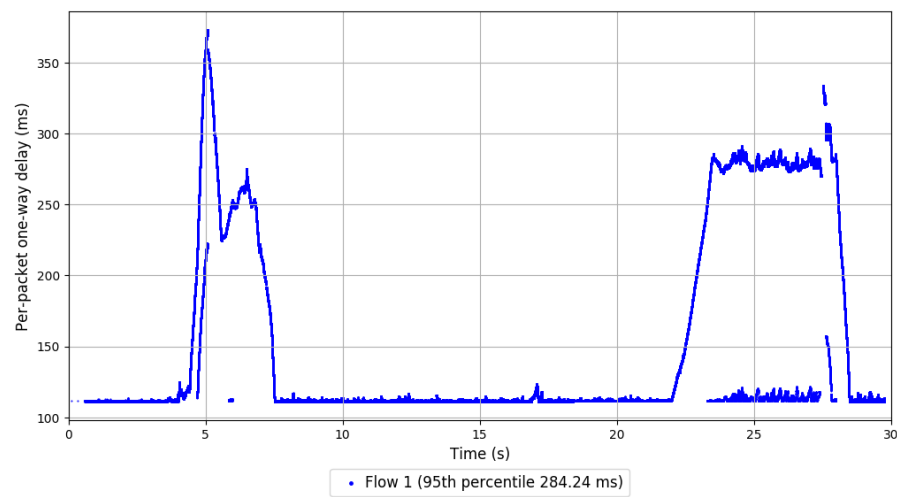
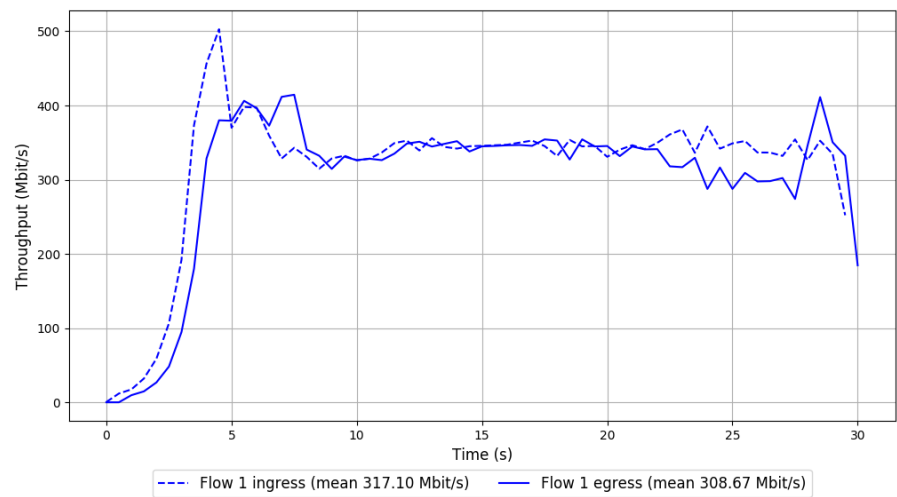
-- Flow 1:

Average throughput: 308.67 Mbit/s

95th percentile per-packet one-way delay: 284.243 ms

Loss rate: 3.38%

Run 7: Report of PCC-Expr — Data Link

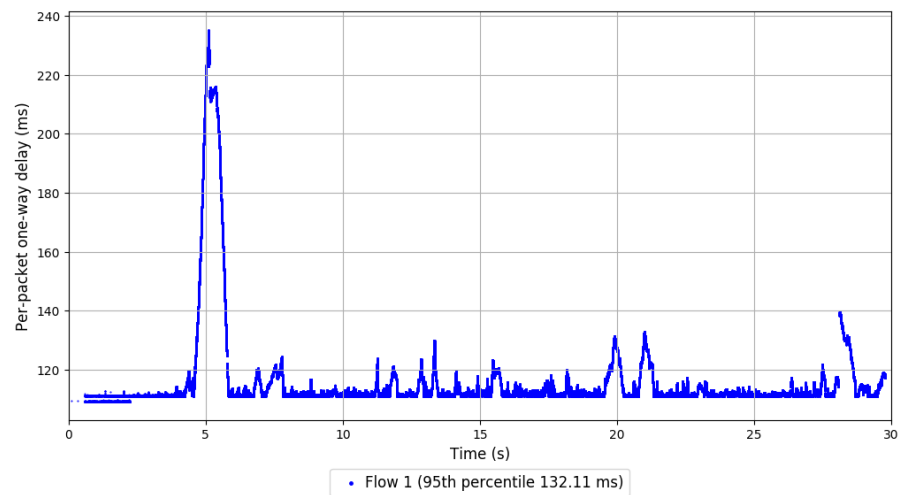
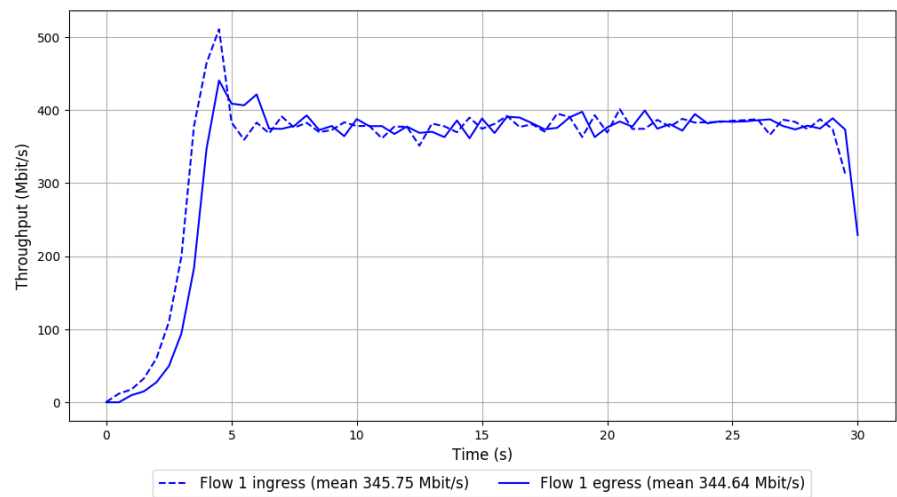


Run 8: Statistics of PCC-Expr

Start at: 2018-07-24 23:17:48
End at: 2018-07-24 23:18:18
Local clock offset: -0.22 ms
Remote clock offset: -0.044 ms

Below is generated by plot.py at 2018-07-25 01:31:08
Datalink statistics
-- Total of 1 flow:
Average throughput: 344.64 Mbit/s
95th percentile per-packet one-way delay: 132.113 ms
Loss rate: 1.06%
-- Flow 1:
Average throughput: 344.64 Mbit/s
95th percentile per-packet one-way delay: 132.113 ms
Loss rate: 1.06%

Run 8: Report of PCC-Expr — Data Link



Run 9: Statistics of PCC-Expr

Start at: 2018-07-24 23:40:29

End at: 2018-07-24 23:40:59

Local clock offset: -1.388 ms

Remote clock offset: 0.04 ms

Below is generated by plot.py at 2018-07-25 01:31:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 342.66 Mbit/s

95th percentile per-packet one-way delay: 143.063 ms

Loss rate: 0.82%

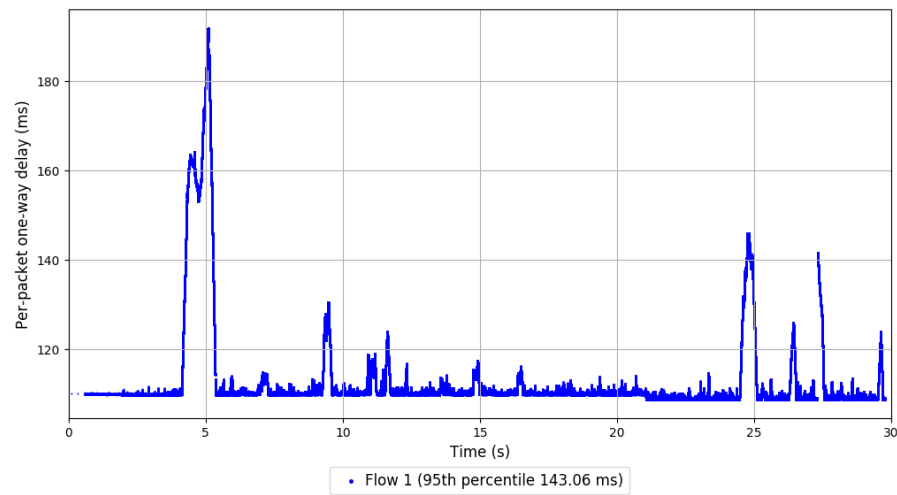
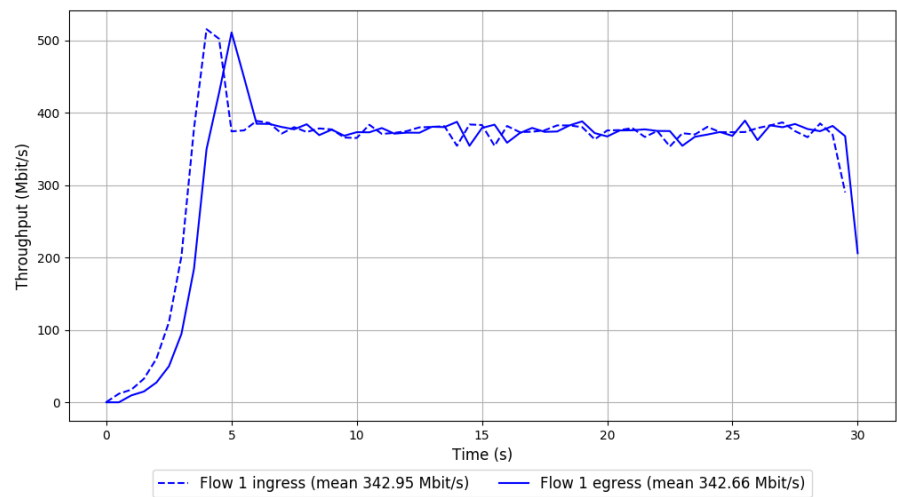
-- Flow 1:

Average throughput: 342.66 Mbit/s

95th percentile per-packet one-way delay: 143.063 ms

Loss rate: 0.82%

Run 9: Report of PCC-Expr — Data Link



Run 10: Statistics of PCC-Expr

Start at: 2018-07-25 00:03:30

End at: 2018-07-25 00:04:00

Local clock offset: 0.195 ms

Remote clock offset: 0.023 ms

Below is generated by plot.py at 2018-07-25 01:31:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 116.49 Mbit/s

95th percentile per-packet one-way delay: 111.086 ms

Loss rate: 1.07%

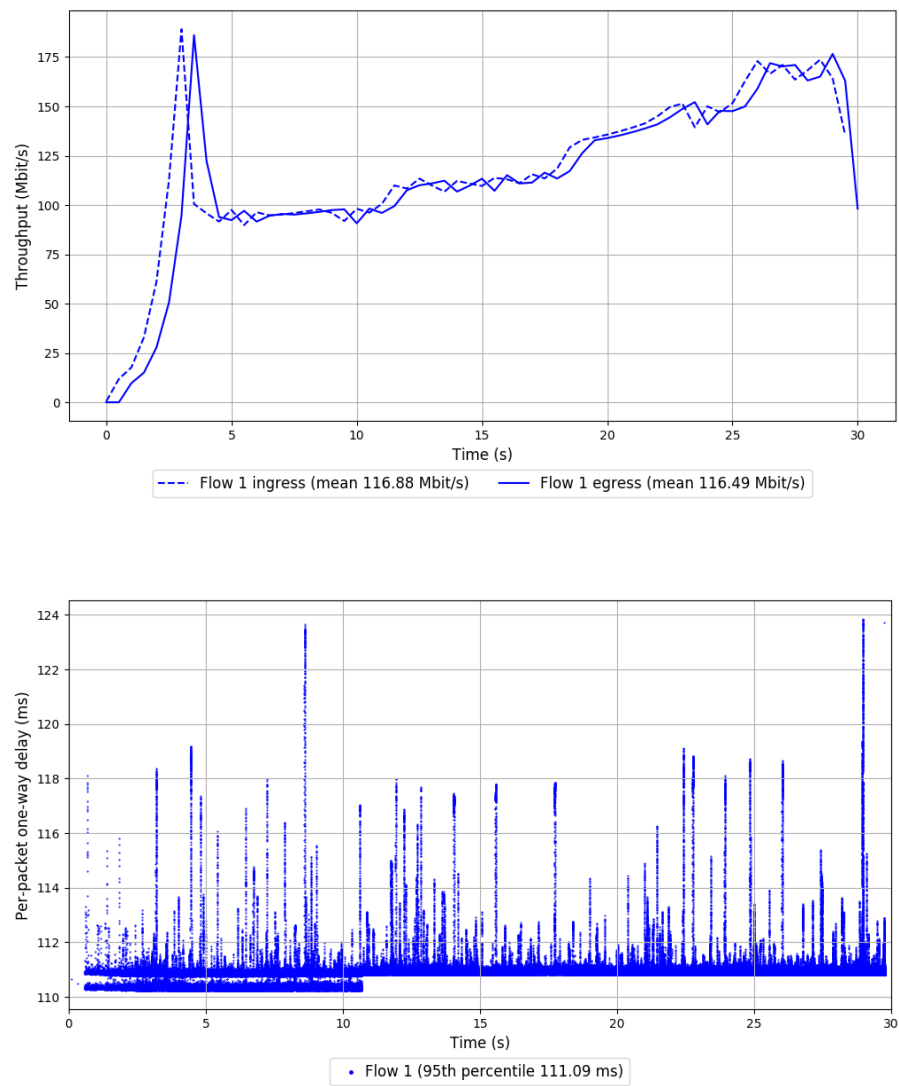
-- Flow 1:

Average throughput: 116.49 Mbit/s

95th percentile per-packet one-way delay: 111.086 ms

Loss rate: 1.07%

Run 10: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

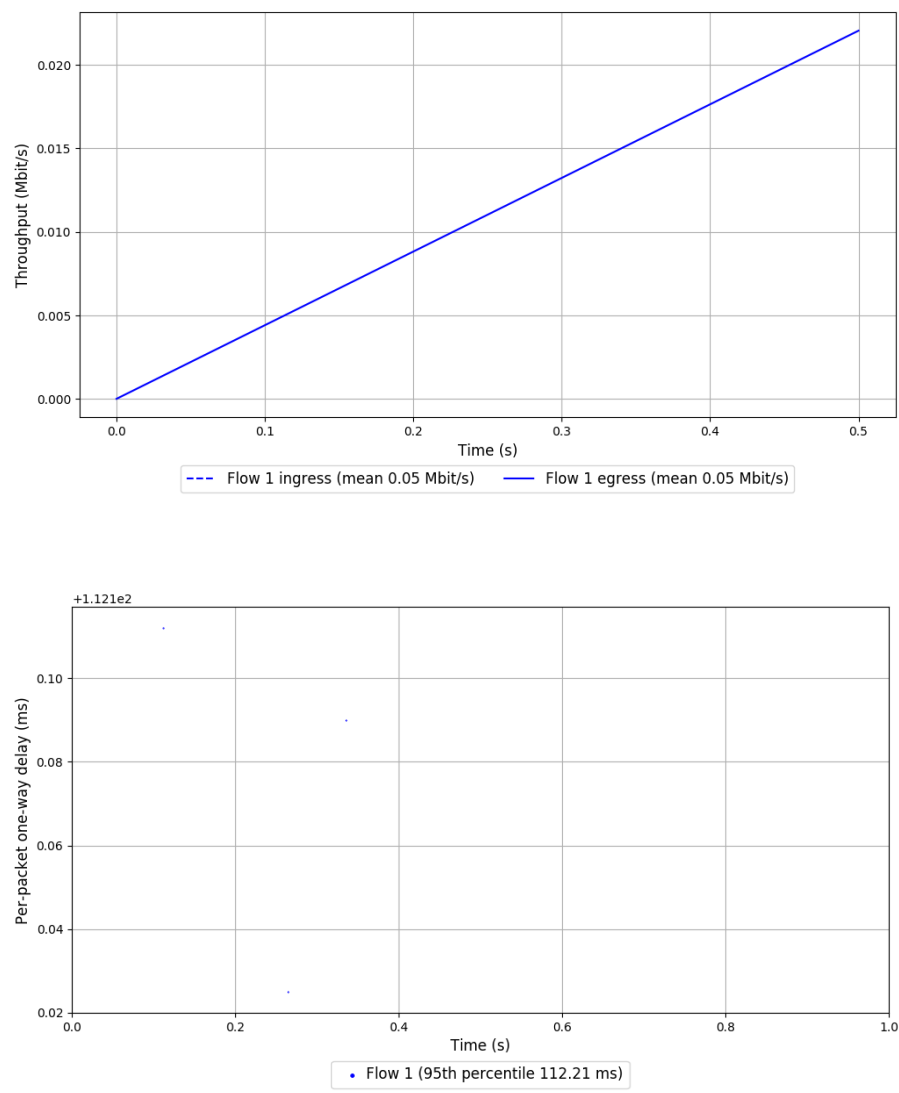
Start at: 2018-07-24 20:21:53

End at: 2018-07-24 20:22:23

Local clock offset: -0.021 ms

Remote clock offset: -0.405 ms

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

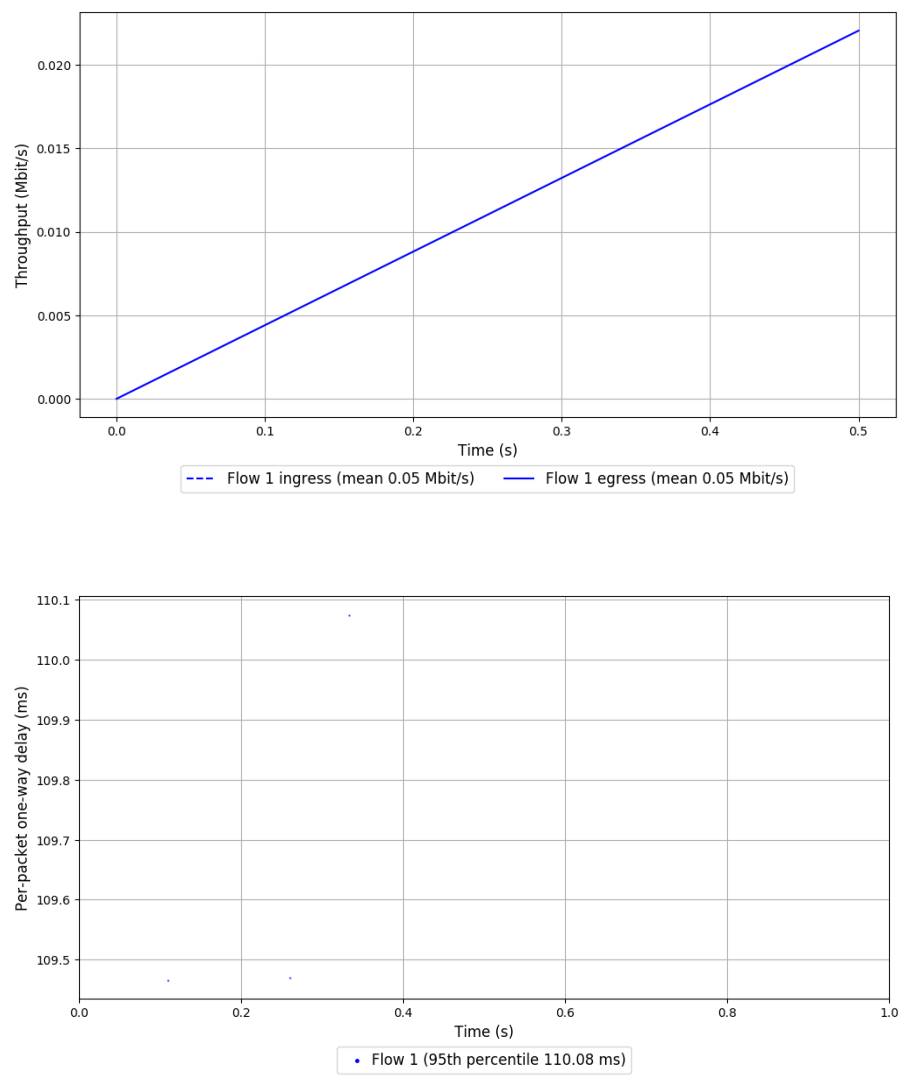
Start at: 2018-07-24 20:44:23

End at: 2018-07-24 20:44:53

Local clock offset: -1.616 ms

Remote clock offset: 0.018 ms

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

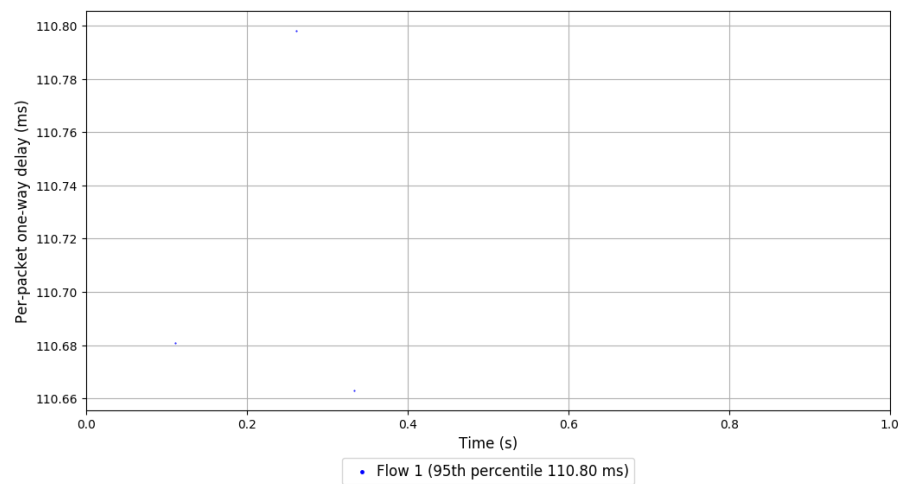
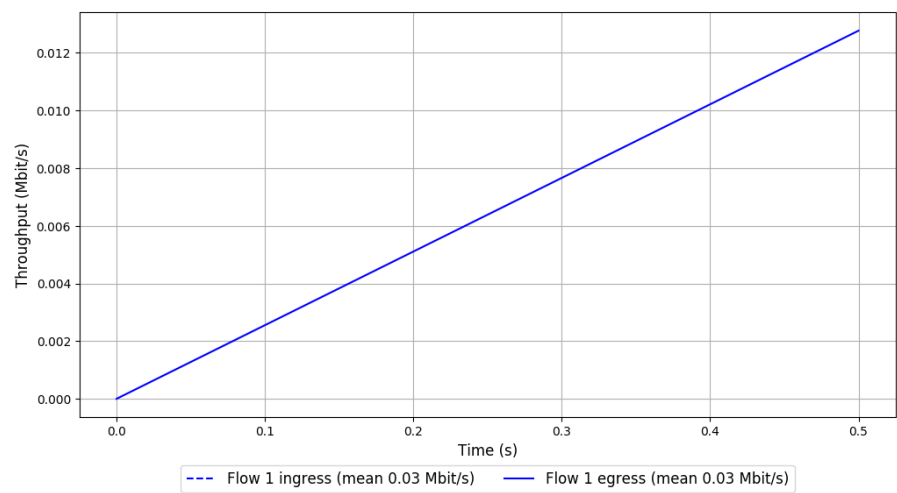
Start at: 2018-07-24 21:06:59

End at: 2018-07-24 21:07:29

Local clock offset: -0.578 ms

Remote clock offset: -0.045 ms

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

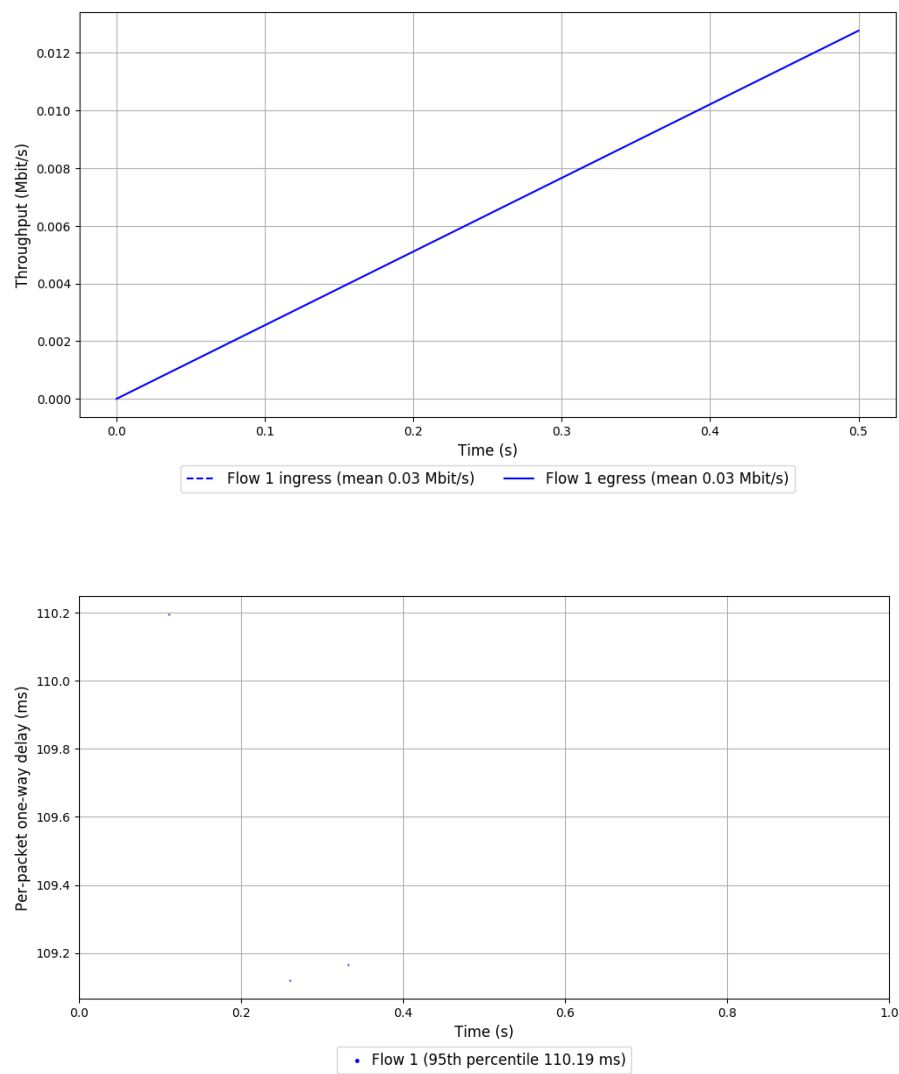
Start at: 2018-07-24 21:29:19

End at: 2018-07-24 21:29:49

Local clock offset: -0.51 ms

Remote clock offset: -0.135 ms

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

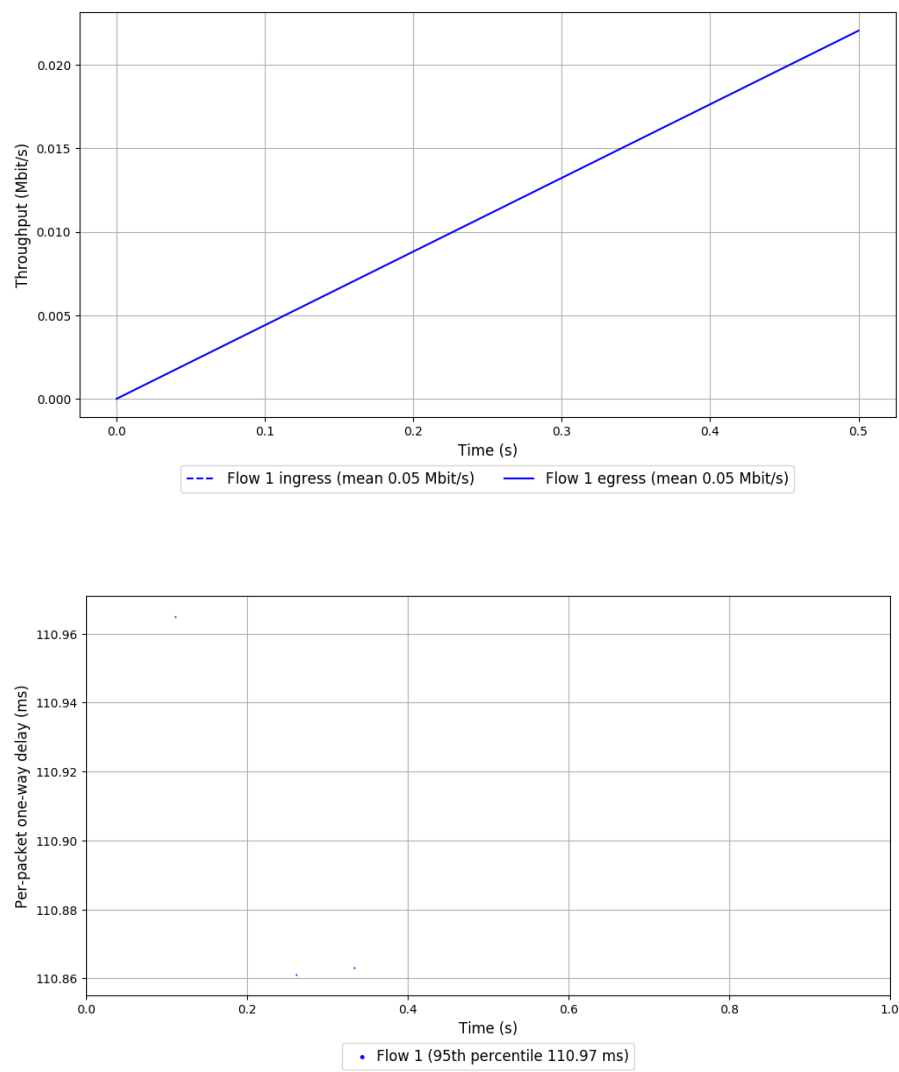
Start at: 2018-07-24 21:51:48

End at: 2018-07-24 21:52:18

Local clock offset: -0.149 ms

Remote clock offset: 0.025 ms

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-07-24 22:14:24

End at: 2018-07-24 22:14:54

Local clock offset: -0.087 ms

Remote clock offset: 0.016 ms

Below is generated by plot.py at 2018-07-25 01:31:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 70.74 Mbit/s

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

Loss rate: 0.99%

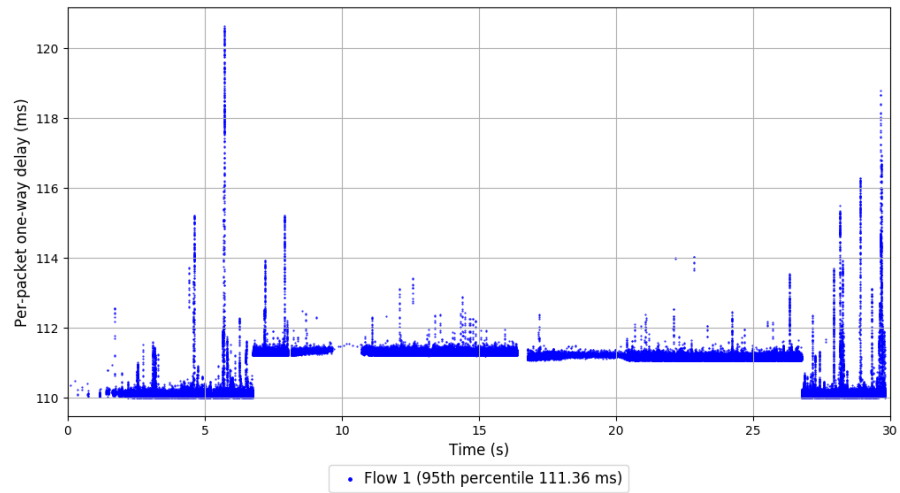
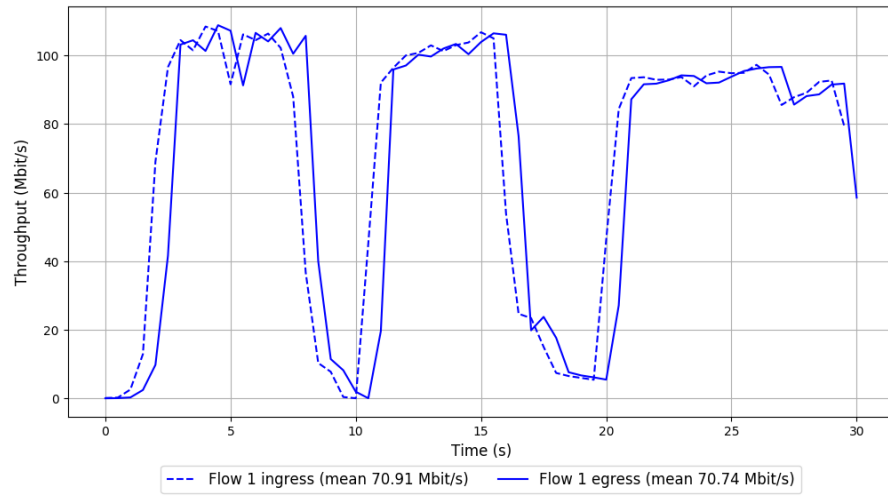
-- Flow 1:

Average throughput: 70.74 Mbit/s

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

Loss rate: 0.99%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

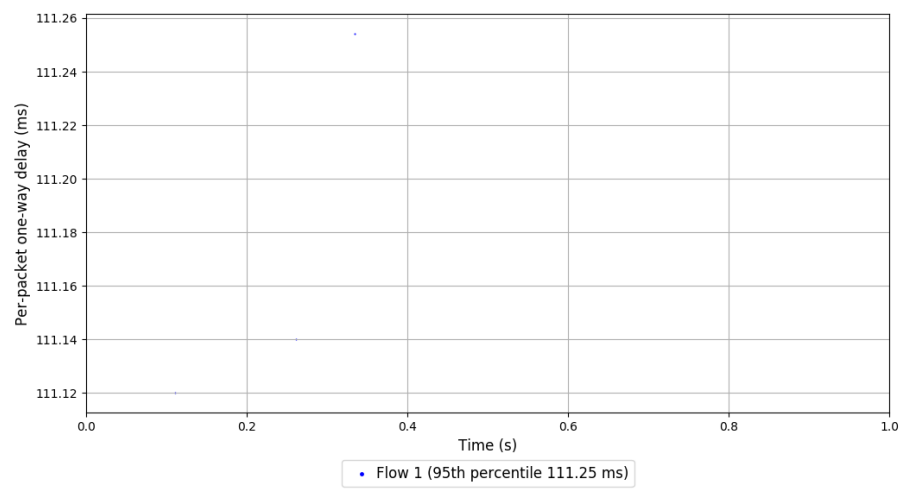
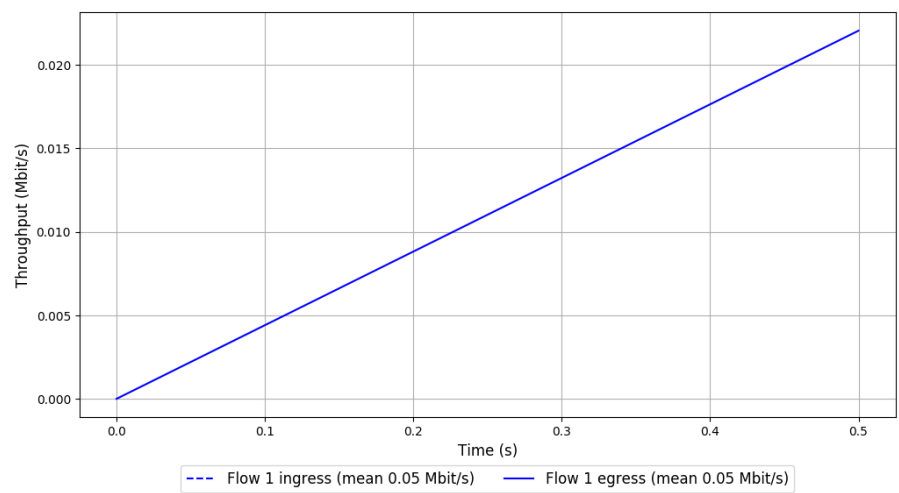
Start at: 2018-07-24 22:36:53

End at: 2018-07-24 22:37:23

Local clock offset: -0.205 ms

Remote clock offset: -0.336 ms

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

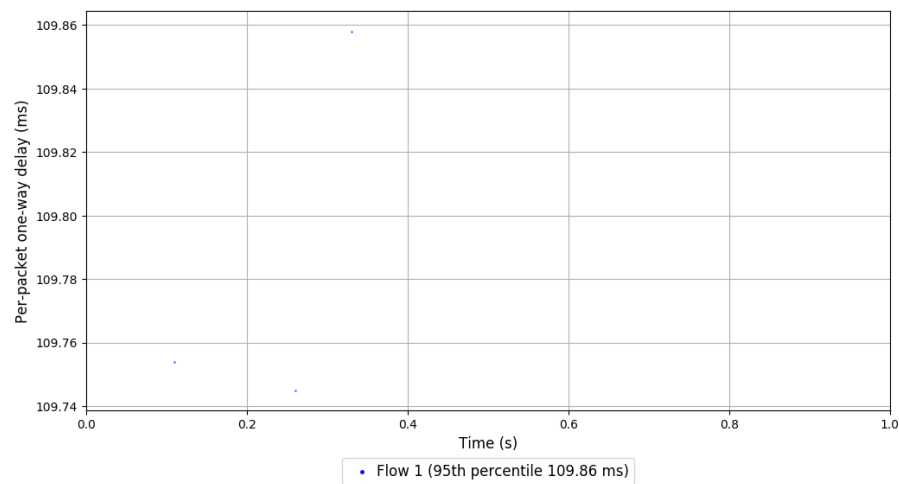
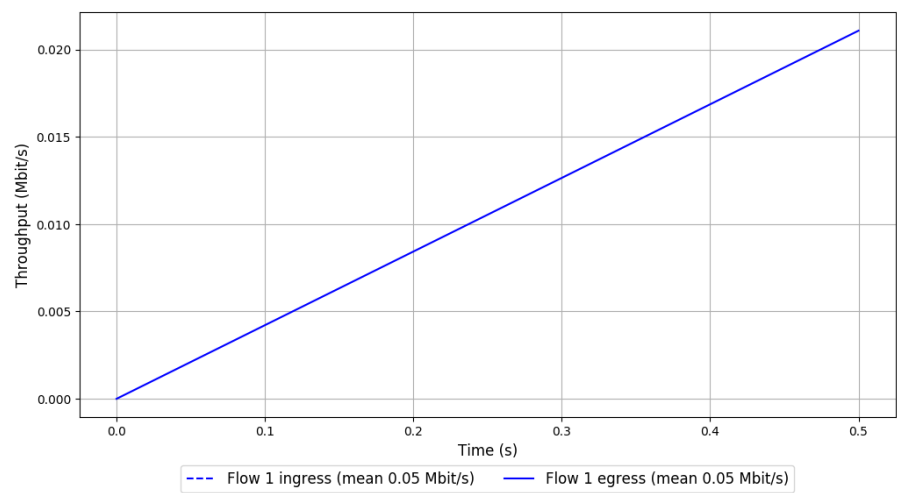
Start at: 2018-07-24 22:59:42

End at: 2018-07-24 23:00:12

Local clock offset: 0.067 ms

Remote clock offset: -0.355 ms

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

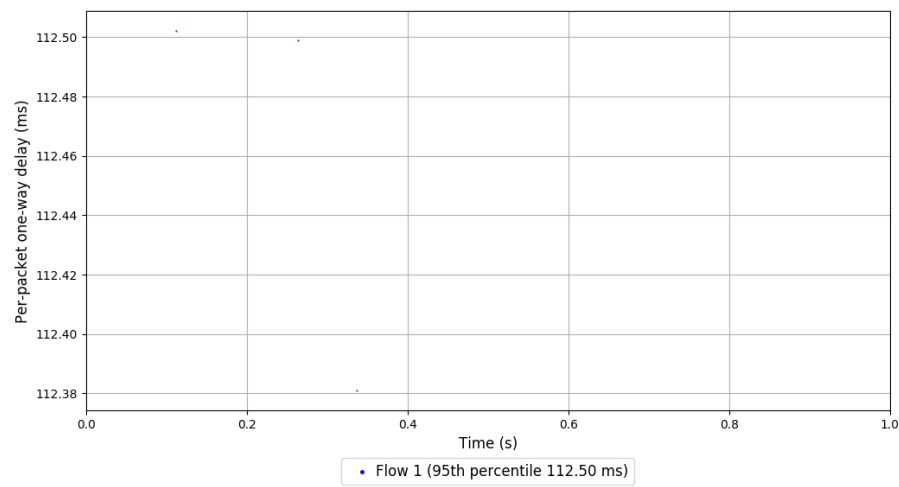
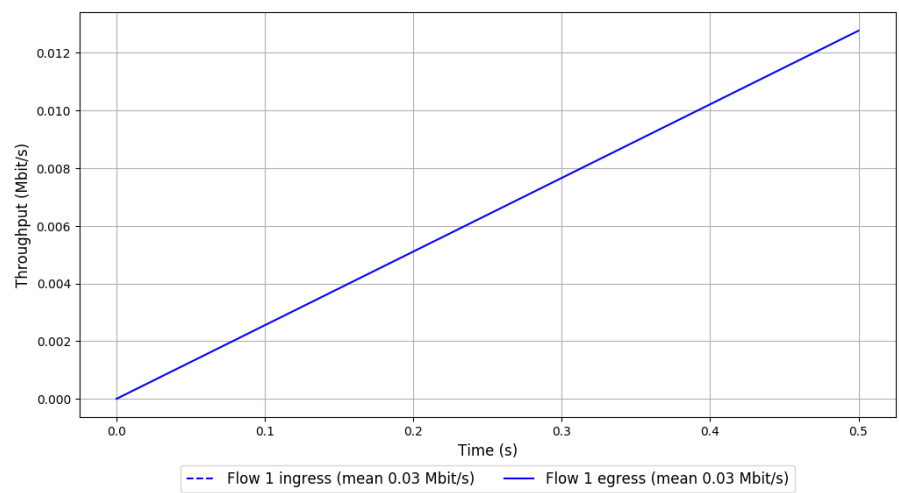
Start at: 2018-07-24 23:22:38

End at: 2018-07-24 23:23:08

Local clock offset: -1.137 ms

Remote clock offset: 0.025 ms

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

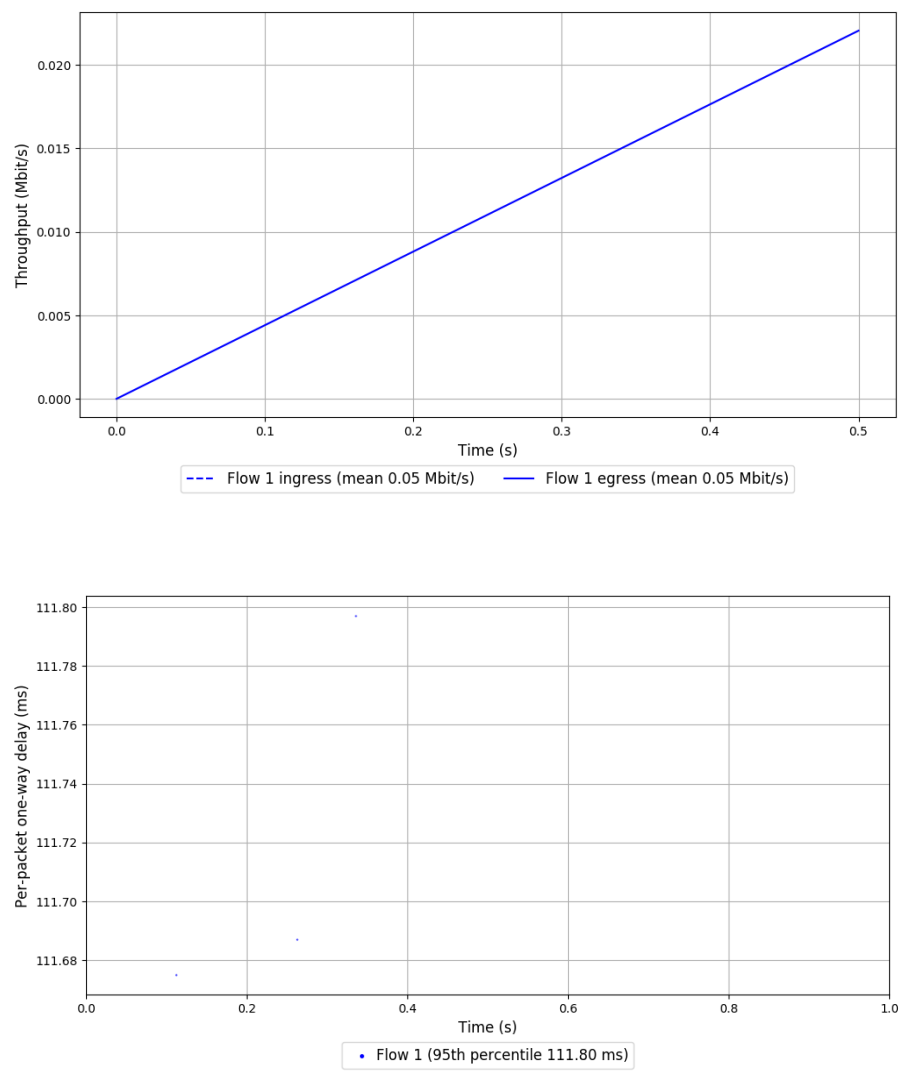
Start at: 2018-07-24 23:45:19

End at: 2018-07-24 23:45:49

Local clock offset: -0.04 ms

Remote clock offset: -0.353 ms

Run 10: Report of QUIC Cubic — Data Link

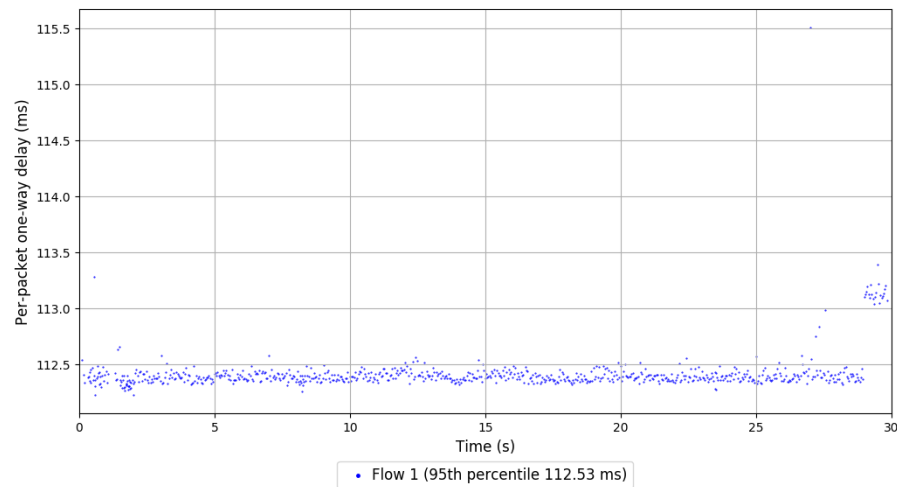
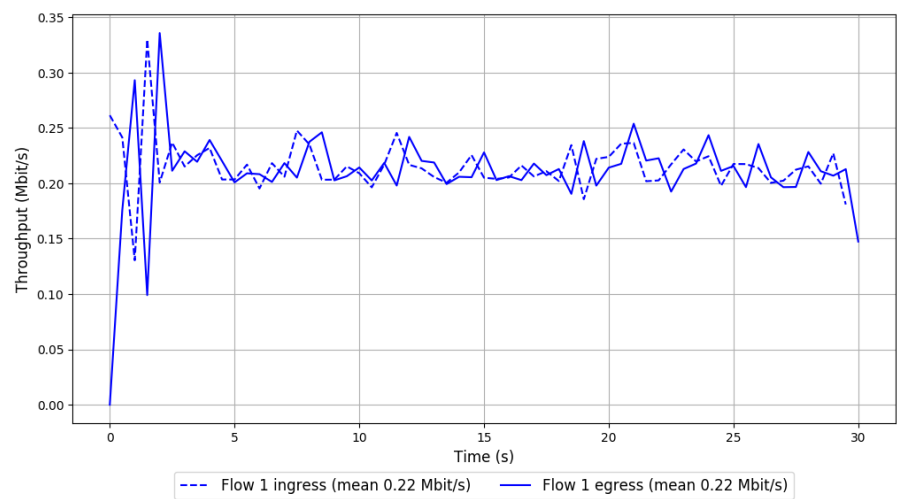


Run 1: Statistics of SCReAM

Start at: 2018-07-24 20:24:41
End at: 2018-07-24 20:25:11
Local clock offset: 1.213 ms
Remote clock offset: -0.024 ms

Below is generated by plot.py at 2018-07-25 01:31:08
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 112.527 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 112.527 ms
Loss rate: 0.64%

Run 1: Report of SReAM — Data Link

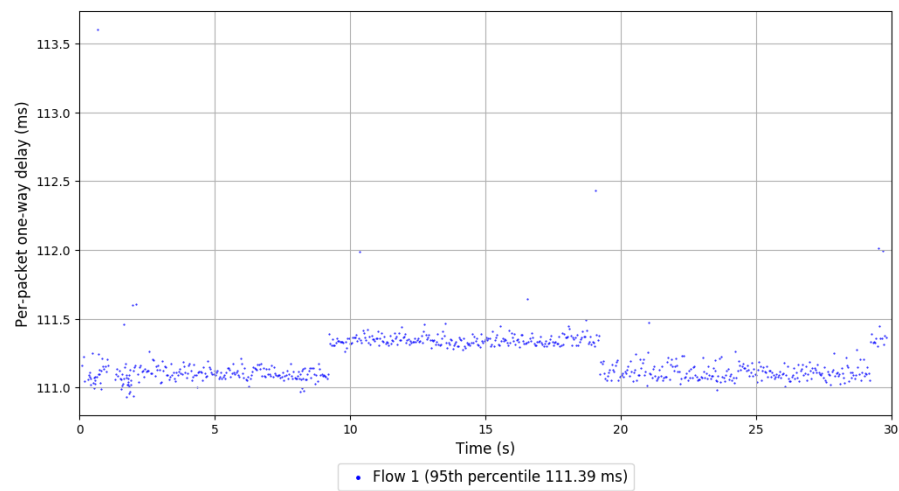
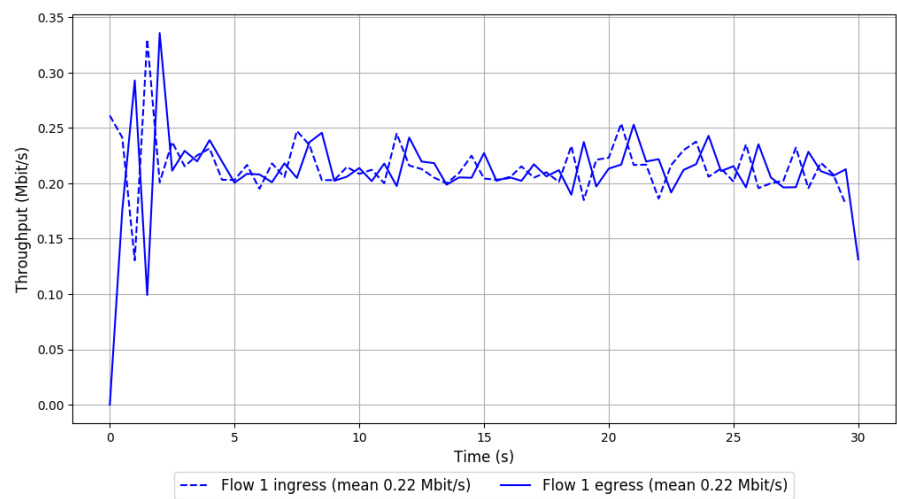


Run 2: Statistics of SCReAM

Start at: 2018-07-24 20:47:11
End at: 2018-07-24 20:47:41
Local clock offset: -0.031 ms
Remote clock offset: -0.034 ms

Below is generated by plot.py at 2018-07-25 01:31:08
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 111.391 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 111.391 ms
Loss rate: 0.76%

Run 2: Report of SReAM — Data Link

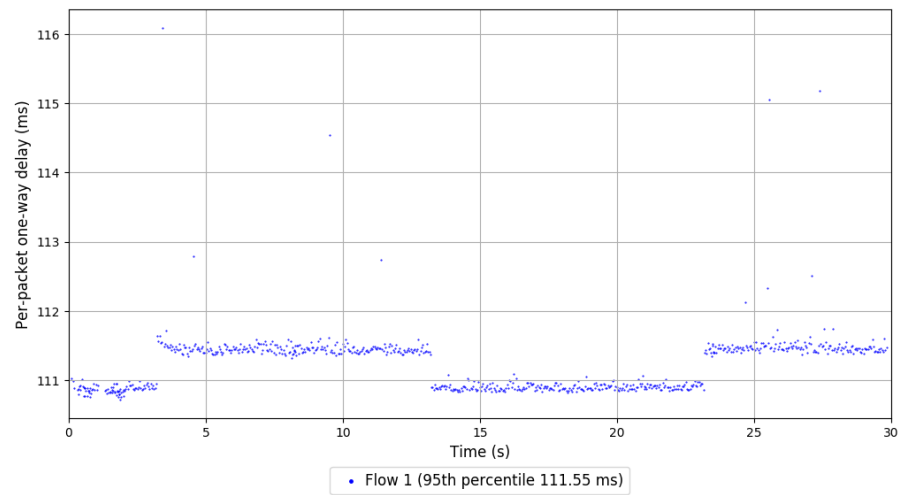
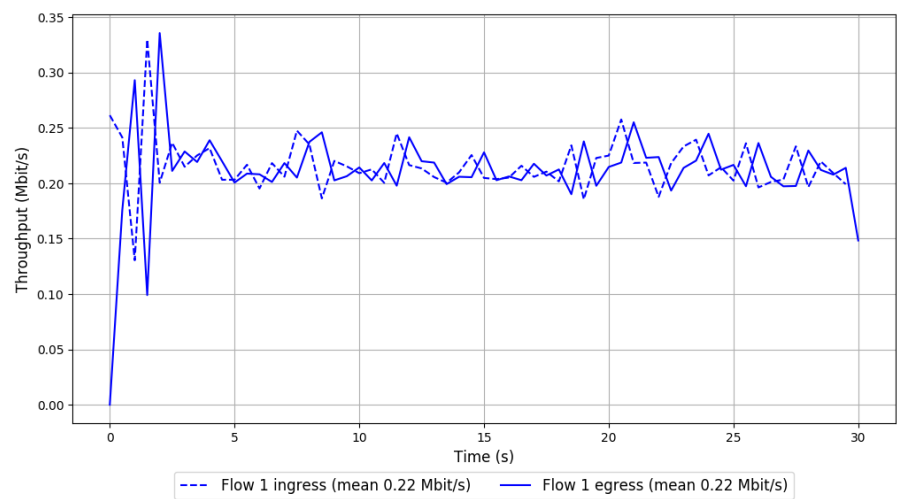


Run 3: Statistics of SCReAM

Start at: 2018-07-24 21:09:47
End at: 2018-07-24 21:10:17
Local clock offset: -0.341 ms
Remote clock offset: -0.068 ms

Below is generated by plot.py at 2018-07-25 01:31:08
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 111.548 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 111.548 ms
Loss rate: 0.77%

Run 3: Report of SReAM — Data Link

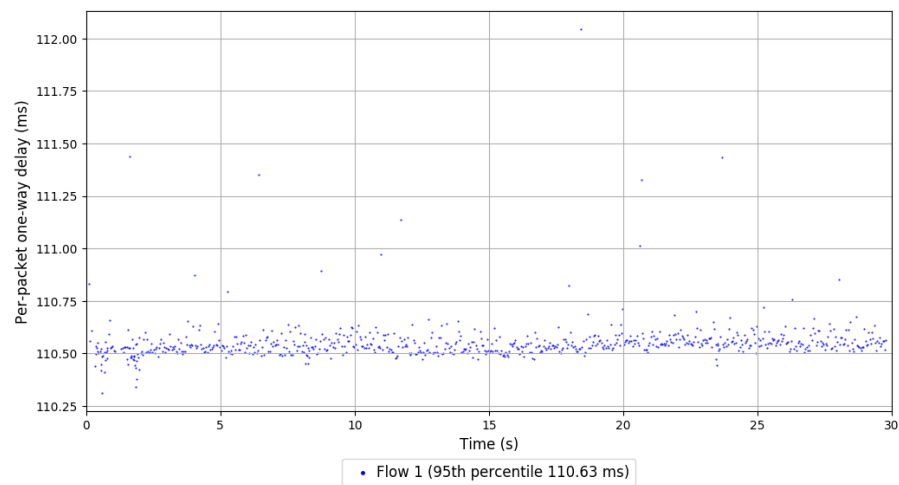
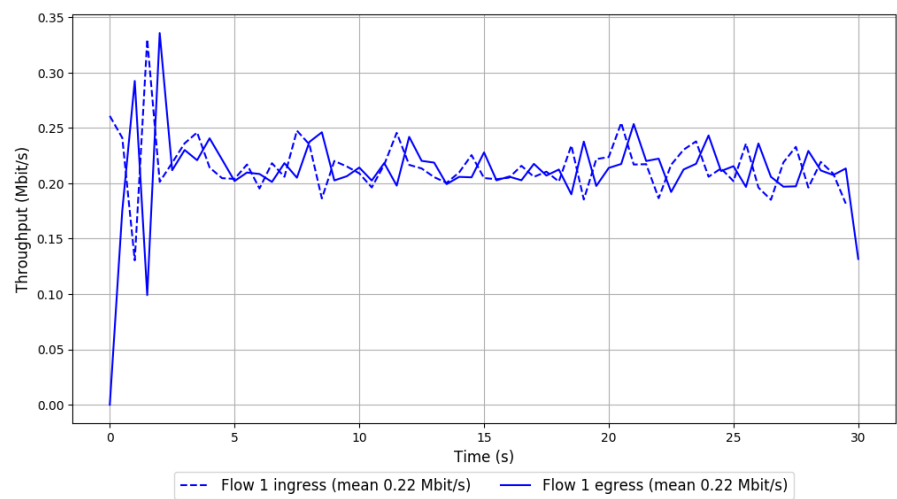


Run 4: Statistics of SCReAM

Start at: 2018-07-24 21:32:12
End at: 2018-07-24 21:32:42
Local clock offset: -0.187 ms
Remote clock offset: -0.428 ms

Below is generated by plot.py at 2018-07-25 01:31:08
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 110.633 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 110.633 ms
Loss rate: 0.77%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-07-24 21:54:38

End at: 2018-07-24 21:55:08

Local clock offset: -1.554 ms

Remote clock offset: 0.017 ms

Below is generated by plot.py at 2018-07-25 01:31:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 109.567 ms

Loss rate: 0.77%

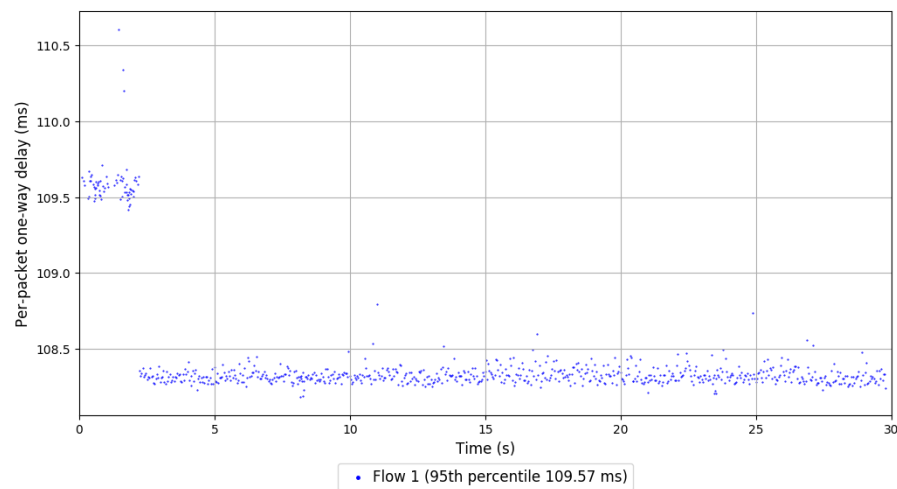
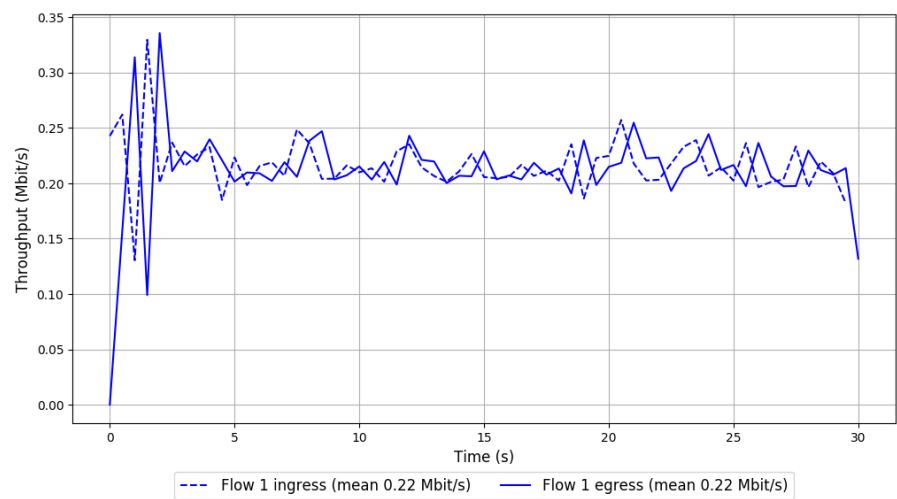
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 109.567 ms

Loss rate: 0.77%

Run 5: Report of SReAM — Data Link

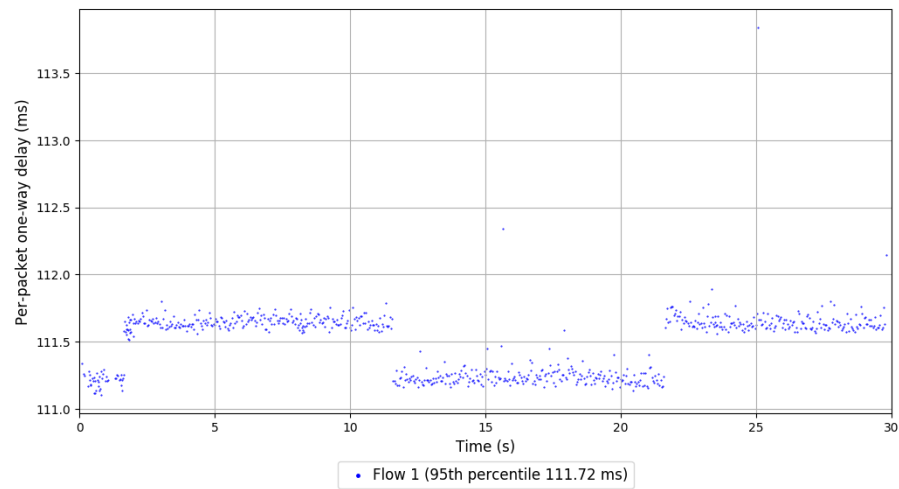
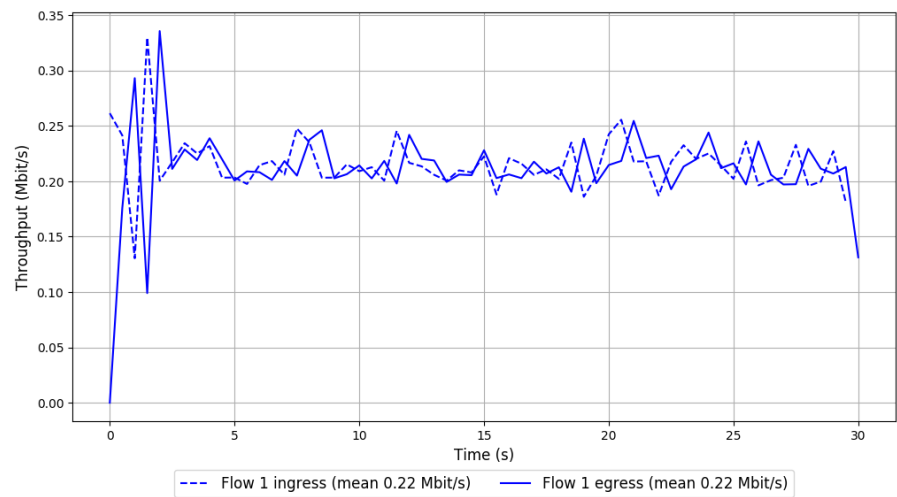


Run 6: Statistics of SCReAM

Start at: 2018-07-24 22:17:19
End at: 2018-07-24 22:17:49
Local clock offset: 0.192 ms
Remote clock offset: -0.006 ms

Below is generated by plot.py at 2018-07-25 01:31:08
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 111.717 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 111.717 ms
Loss rate: 0.76%

Run 6: Report of SReAM — Data Link

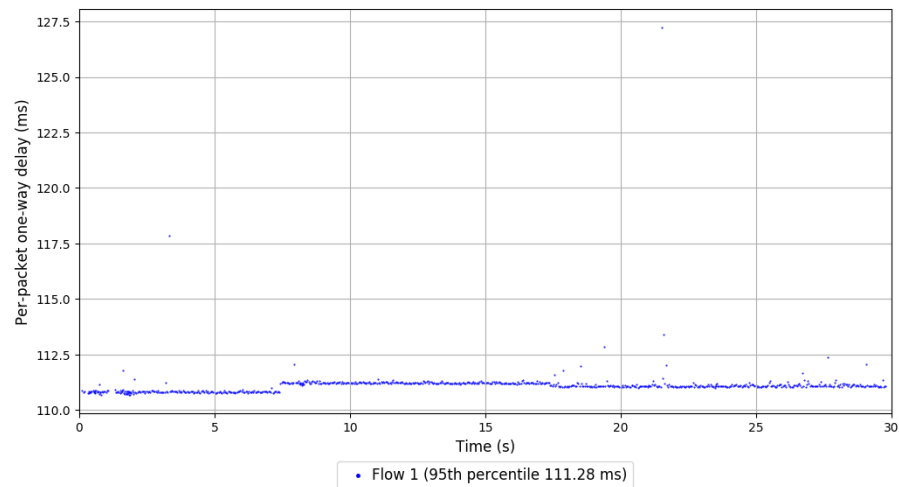
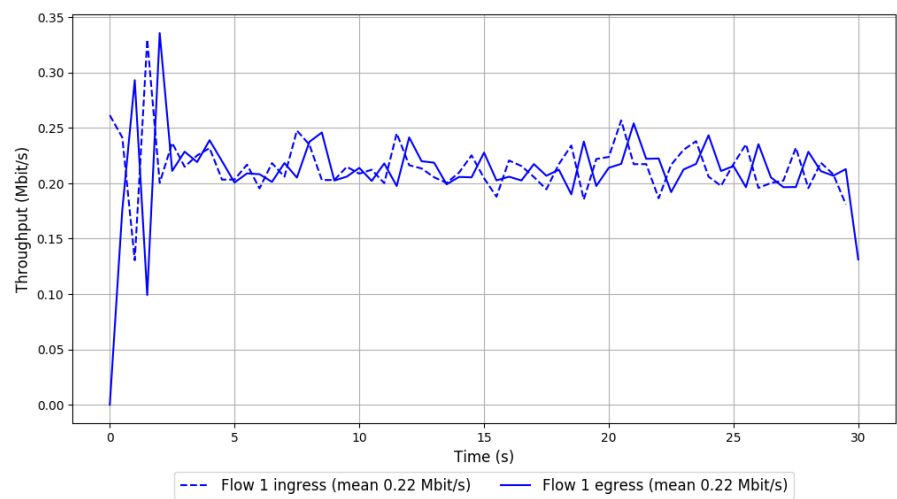


```
Run 7: Statistics of SCReAM

Start at: 2018-07-24 22:39:43
End at: 2018-07-24 22:40:13
Local clock offset: 0.131 ms
Remote clock offset: 0.367 ms

# Below is generated by plot.py at 2018-07-25 01:31:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 111.285 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 111.285 ms
Loss rate: 0.76%
```

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-07-24 23:02:34

End at: 2018-07-24 23:03:04

Local clock offset: -0.028 ms

Remote clock offset: 0.01 ms

Below is generated by plot.py at 2018-07-25 01:31:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 111.647 ms

Loss rate: 0.64%

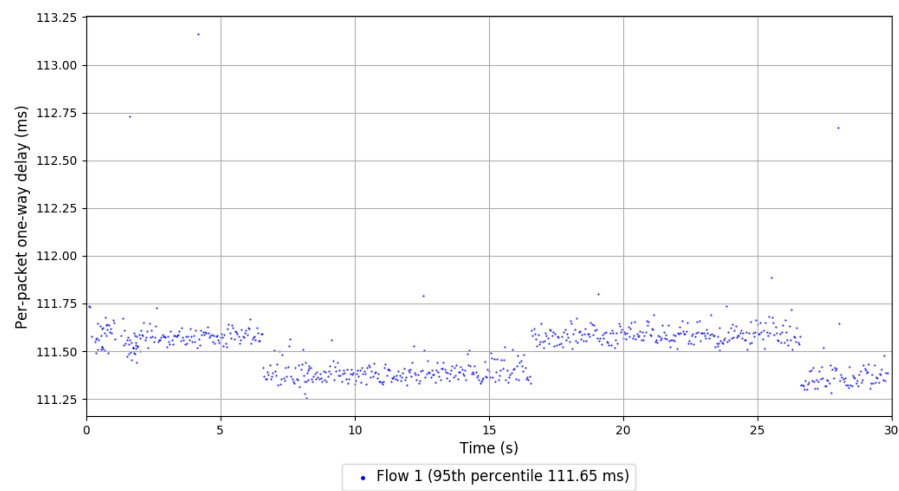
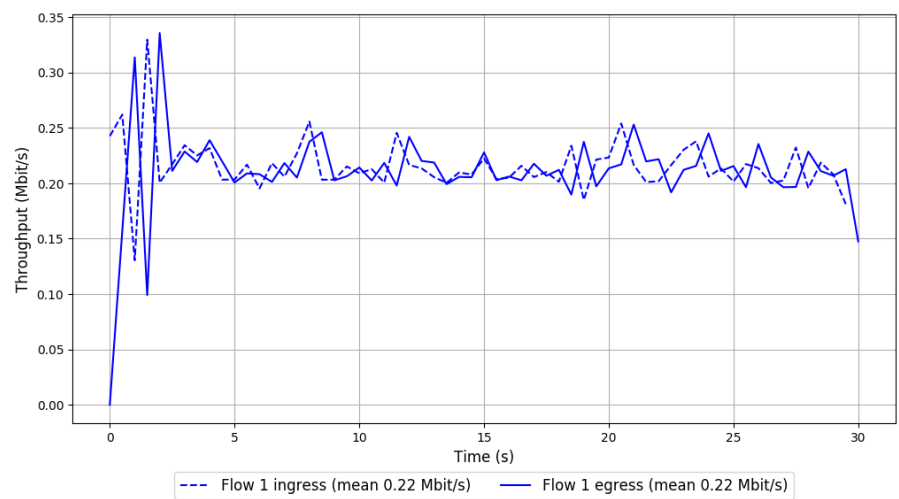
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 111.647 ms

Loss rate: 0.64%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SReAM

Start at: 2018-07-24 23:25:25

End at: 2018-07-24 23:25:55

Local clock offset: 0.225 ms

Remote clock offset: 0.364 ms

Below is generated by plot.py at 2018-07-25 01:31:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 111.100 ms

Loss rate: 0.77%

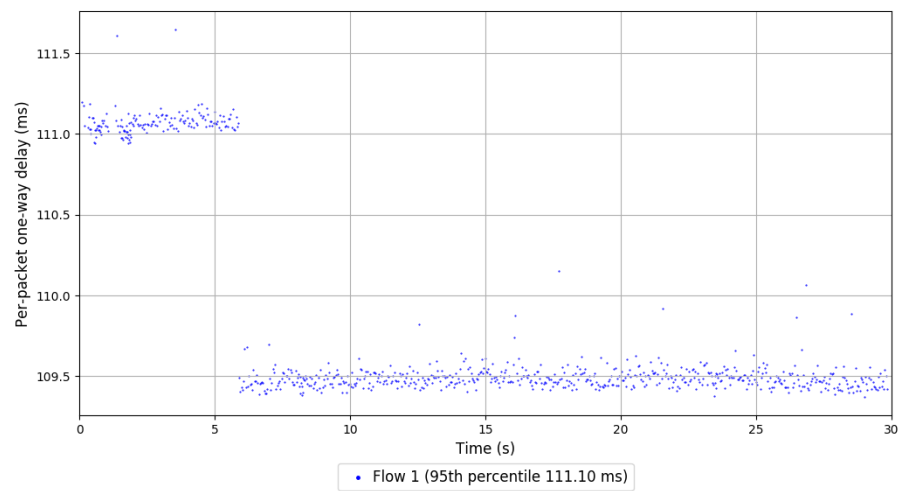
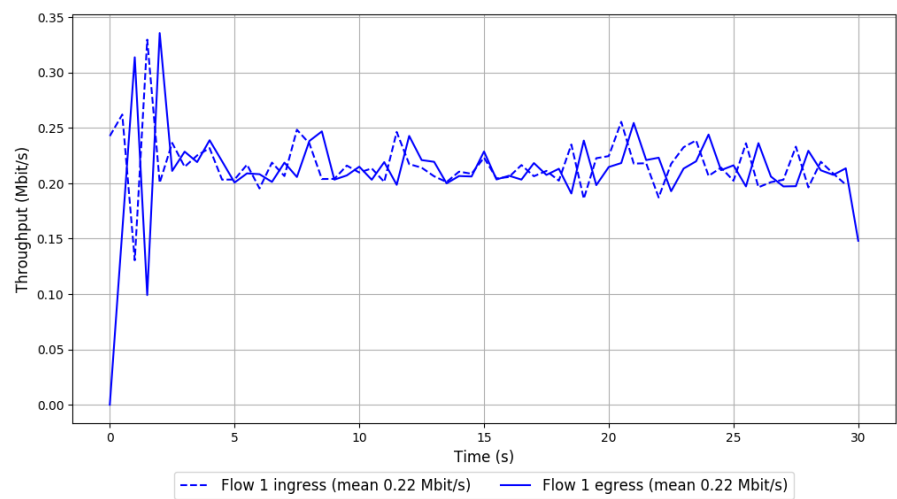
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 111.100 ms

Loss rate: 0.77%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-07-24 23:48:08

End at: 2018-07-24 23:48:38

Local clock offset: -1.191 ms

Remote clock offset: 0.363 ms

Below is generated by plot.py at 2018-07-25 01:31:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 109.945 ms

Loss rate: 0.77%

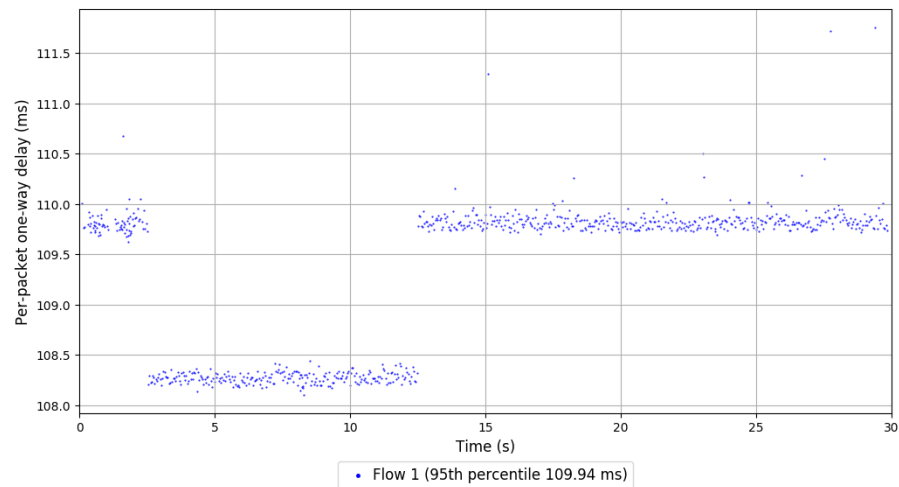
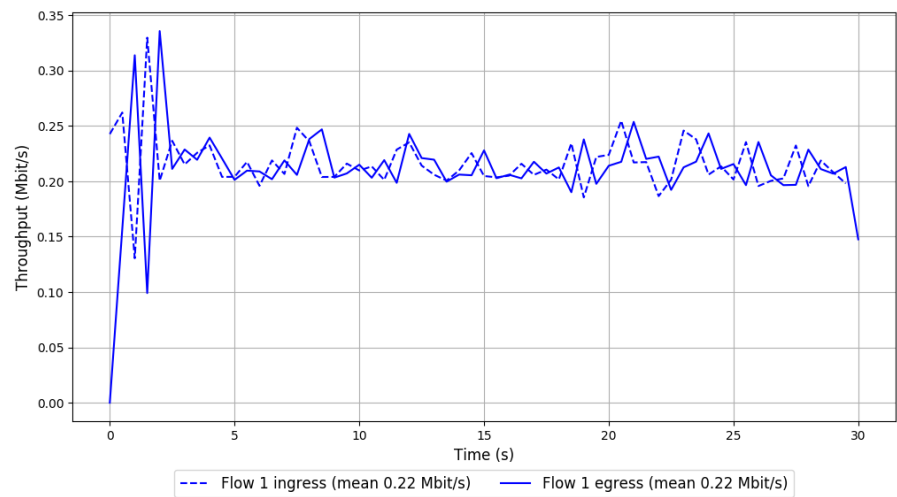
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 109.945 ms

Loss rate: 0.77%

Run 10: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2018-07-24 20:27:21

End at: 2018-07-24 20:27:51

Local clock offset: -0.124 ms

Remote clock offset: 0.052 ms

Below is generated by plot.py at 2018-07-25 01:31:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.32 Mbit/s

95th percentile per-packet one-way delay: 111.295 ms

Loss rate: 0.62%

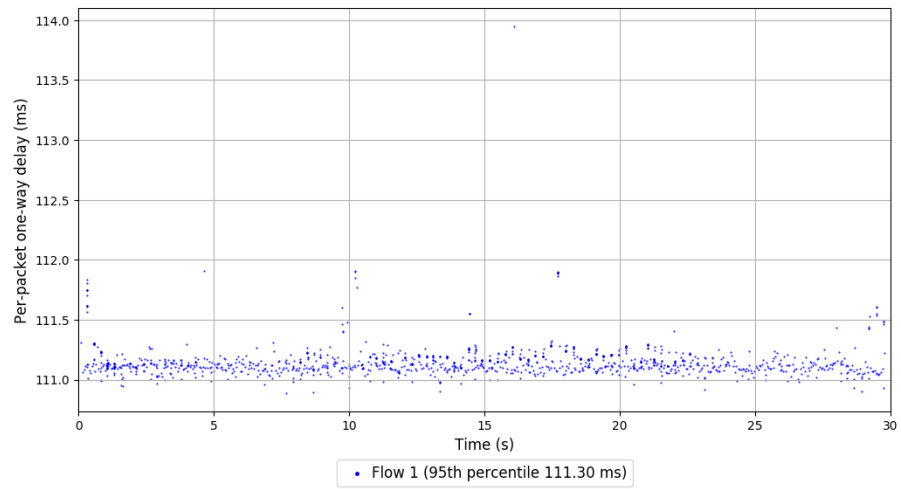
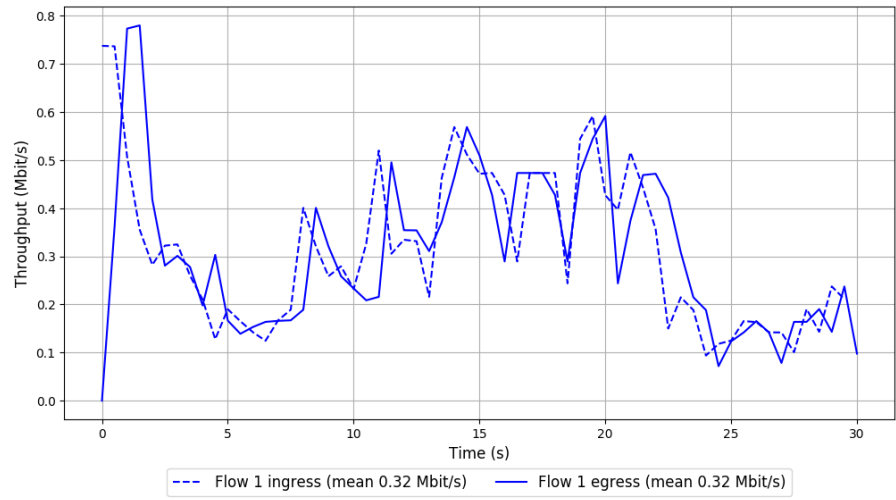
-- Flow 1:

Average throughput: 0.32 Mbit/s

95th percentile per-packet one-way delay: 111.295 ms

Loss rate: 0.62%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-07-24 20:49:51

End at: 2018-07-24 20:50:21

Local clock offset: -0.247 ms

Remote clock offset: 0.344 ms

Below is generated by plot.py at 2018-07-25 01:31:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 110.816 ms

Loss rate: 0.43%

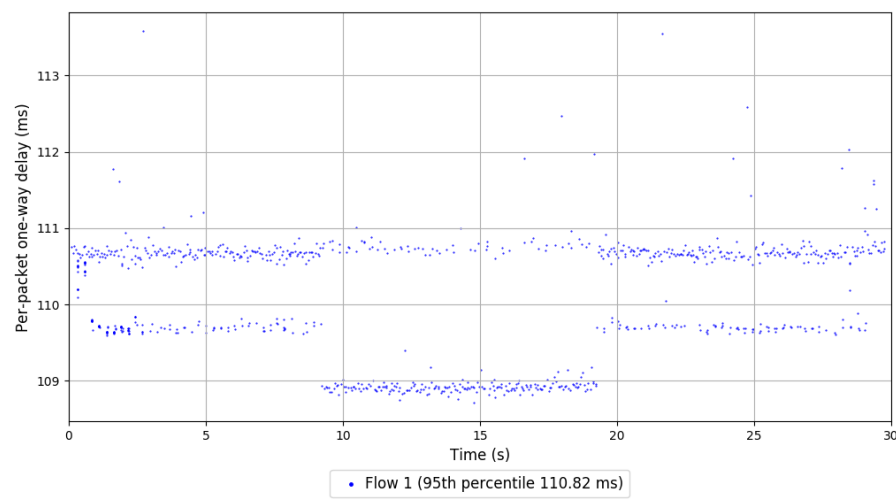
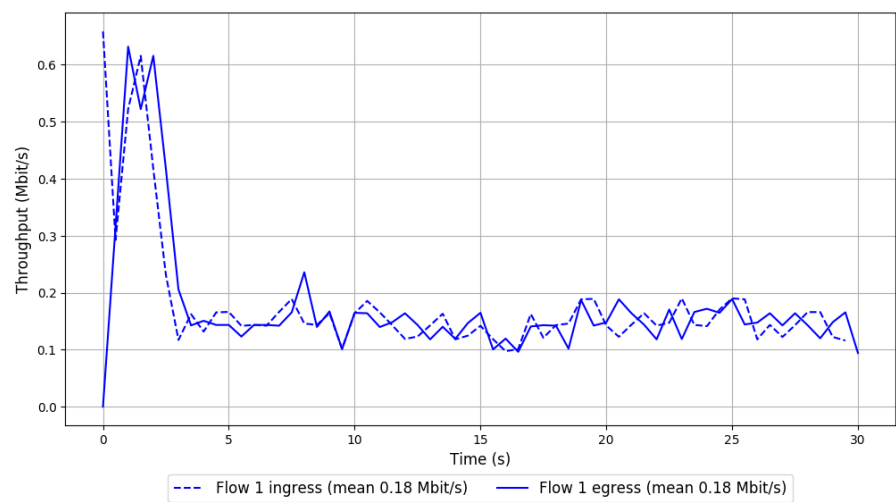
-- Flow 1:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 110.816 ms

Loss rate: 0.43%

Run 2: Report of Sprout — Data Link

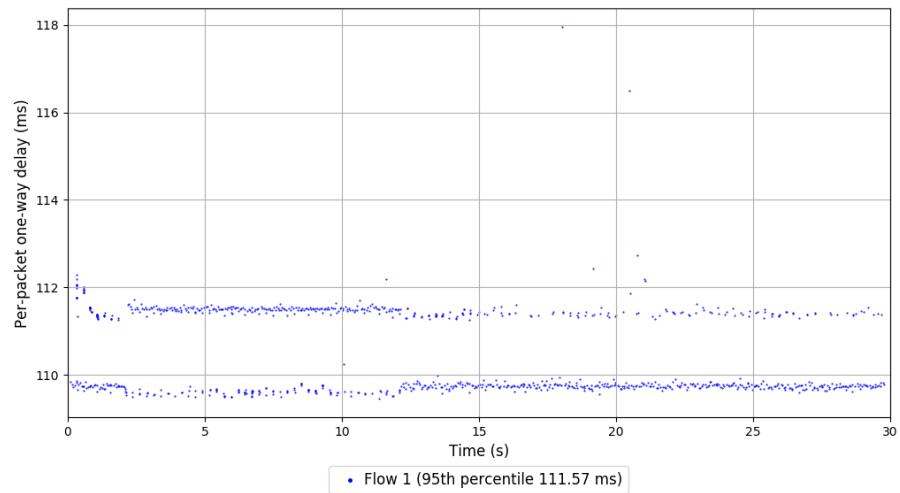
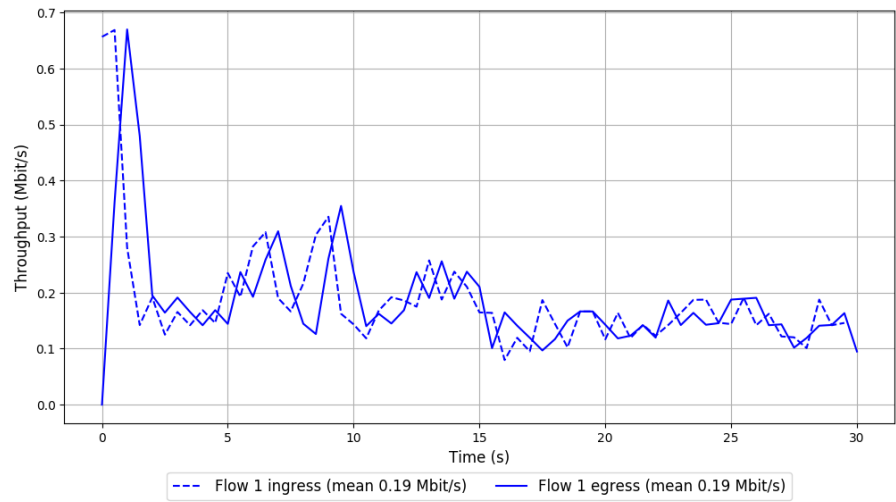


Run 3: Statistics of Sprout

Start at: 2018-07-24 21:12:28
End at: 2018-07-24 21:12:58
Local clock offset: -0.234 ms
Remote clock offset: -0.072 ms

Below is generated by plot.py at 2018-07-25 01:31:08
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 111.571 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 111.571 ms
Loss rate: 0.69%

Run 3: Report of Sprout — Data Link

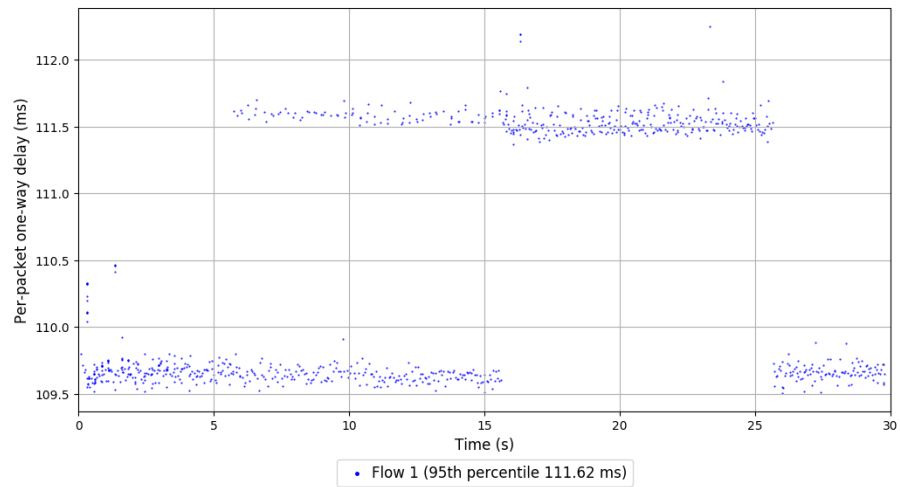
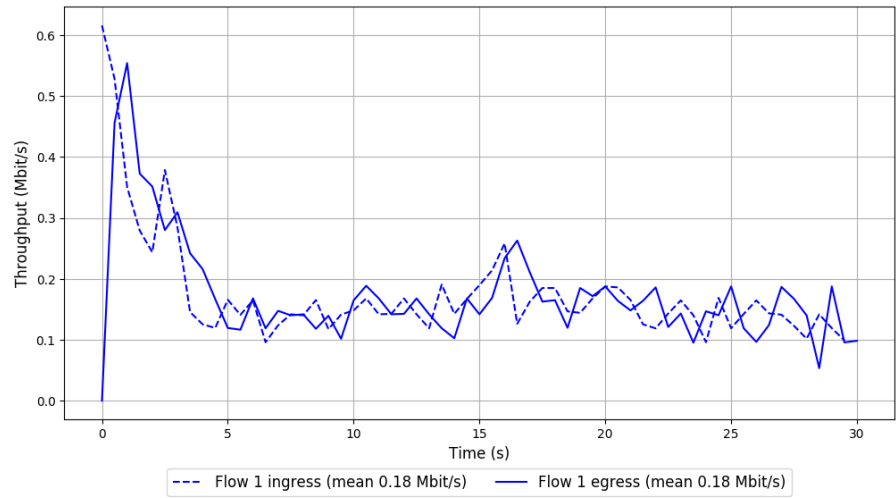


Run 4: Statistics of Sprout

Start at: 2018-07-24 21:34:55
End at: 2018-07-24 21:35:25
Local clock offset: -0.193 ms
Remote clock offset: -0.064 ms

Below is generated by plot.py at 2018-07-25 01:31:08
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 111.624 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 111.624 ms
Loss rate: 0.28%

Run 4: Report of Sprout — Data Link

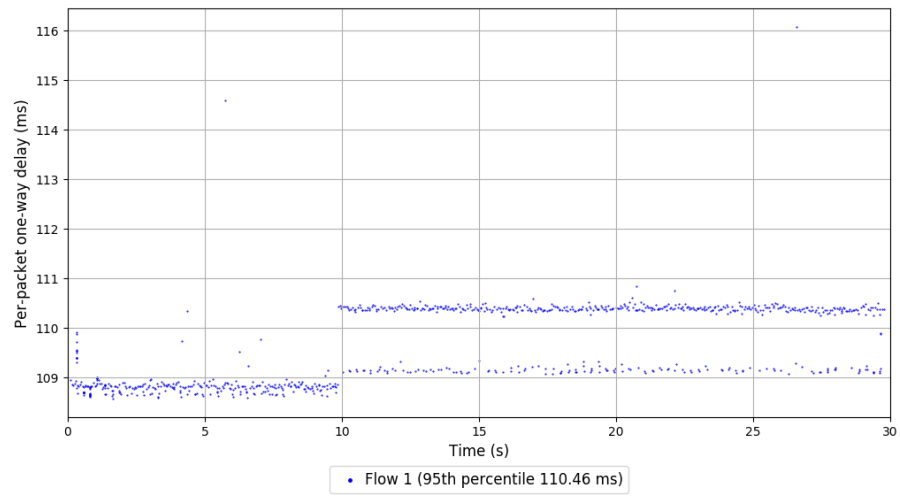
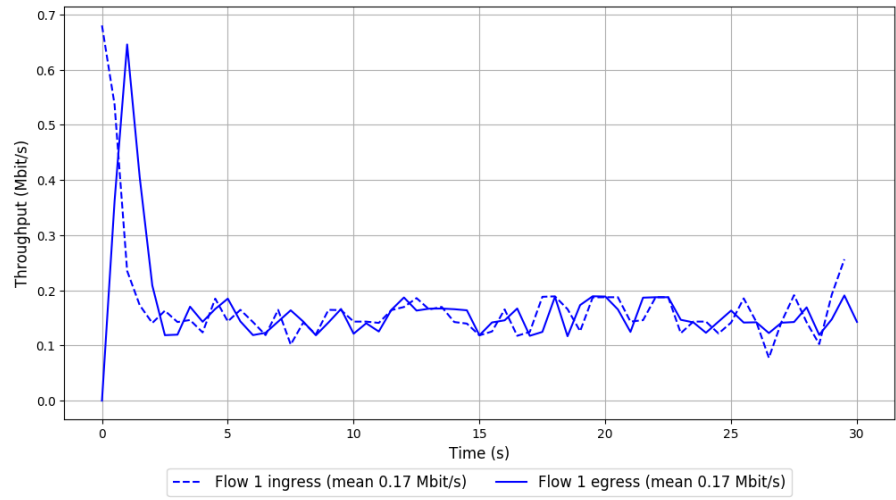


Run 5: Statistics of Sprout

Start at: 2018-07-24 21:57:21
End at: 2018-07-24 21:57:51
Local clock offset: -1.552 ms
Remote clock offset: -0.339 ms

Below is generated by plot.py at 2018-07-25 01:31:08
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 110.458 ms
Loss rate: 1.16%
-- Flow 1:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 110.458 ms
Loss rate: 1.16%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-07-24 22:19:58

End at: 2018-07-24 22:20:28

Local clock offset: -0.075 ms

Remote clock offset: 0.372 ms

Below is generated by plot.py at 2018-07-25 01:31:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.17 Mbit/s

95th percentile per-packet one-way delay: 111.140 ms

Loss rate: 0.72%

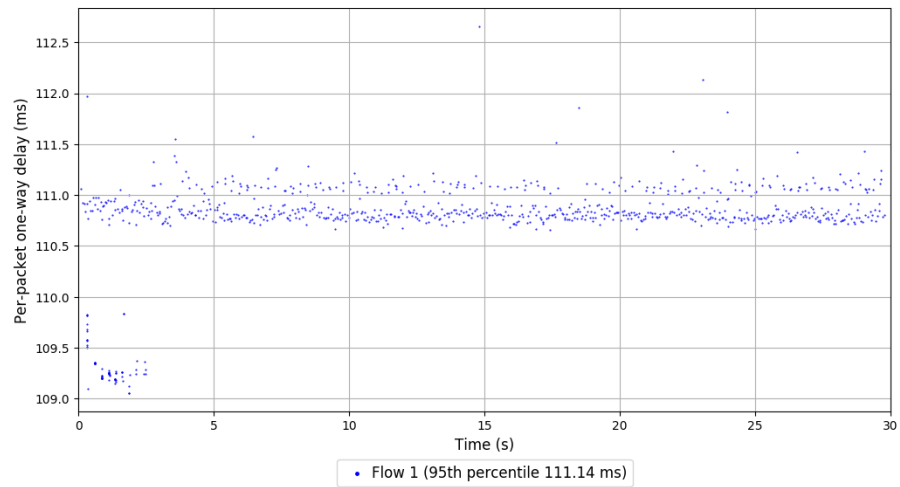
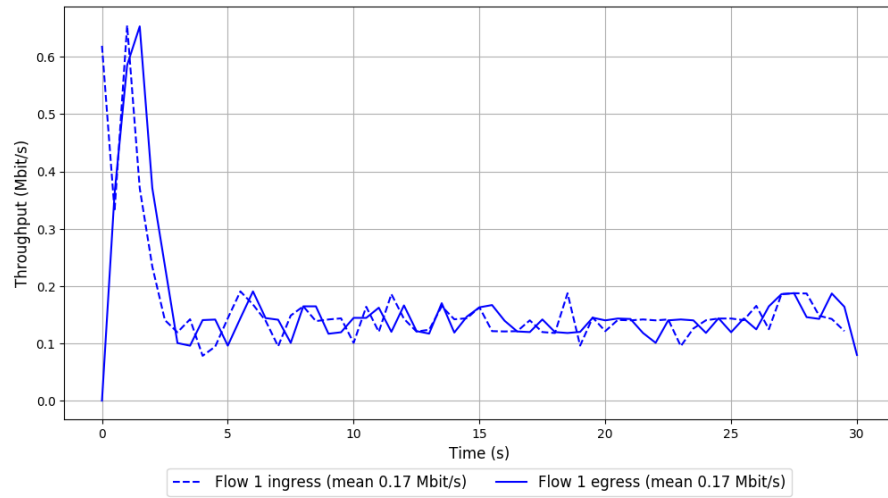
-- Flow 1:

Average throughput: 0.17 Mbit/s

95th percentile per-packet one-way delay: 111.140 ms

Loss rate: 0.72%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-07-24 22:42:24

End at: 2018-07-24 22:42:54

Local clock offset: 0.119 ms

Remote clock offset: 0.349 ms

Below is generated by plot.py at 2018-07-25 01:31:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 111.172 ms

Loss rate: 0.43%

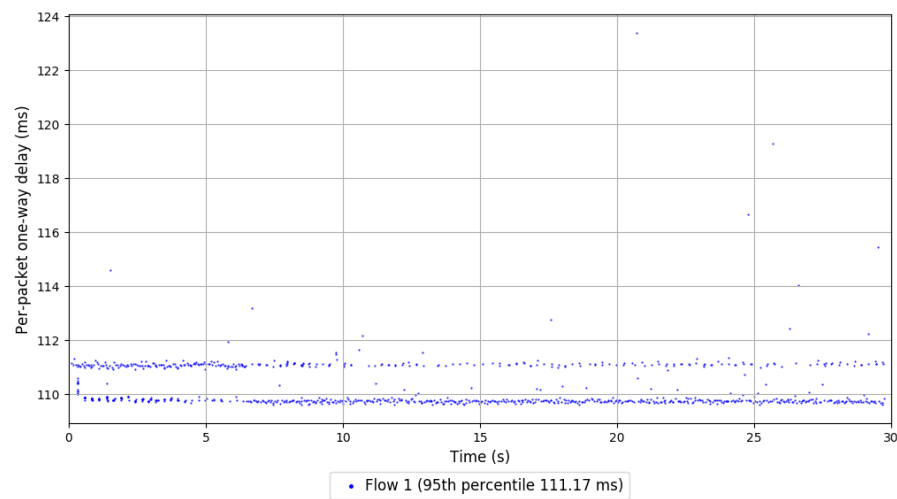
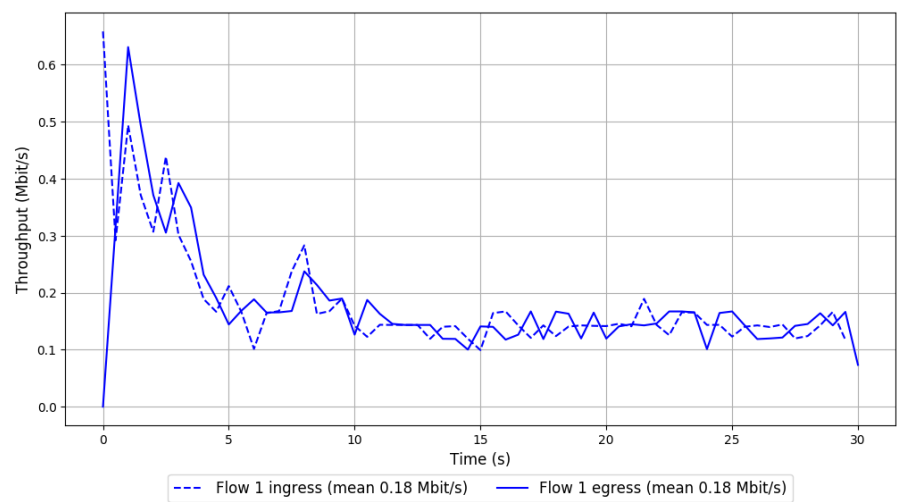
-- Flow 1:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 111.172 ms

Loss rate: 0.43%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-07-24 23:05:14

End at: 2018-07-24 23:05:44

Local clock offset: -0.009 ms

Remote clock offset: 0.028 ms

Below is generated by plot.py at 2018-07-25 01:31:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.17 Mbit/s

95th percentile per-packet one-way delay: 111.472 ms

Loss rate: 0.68%

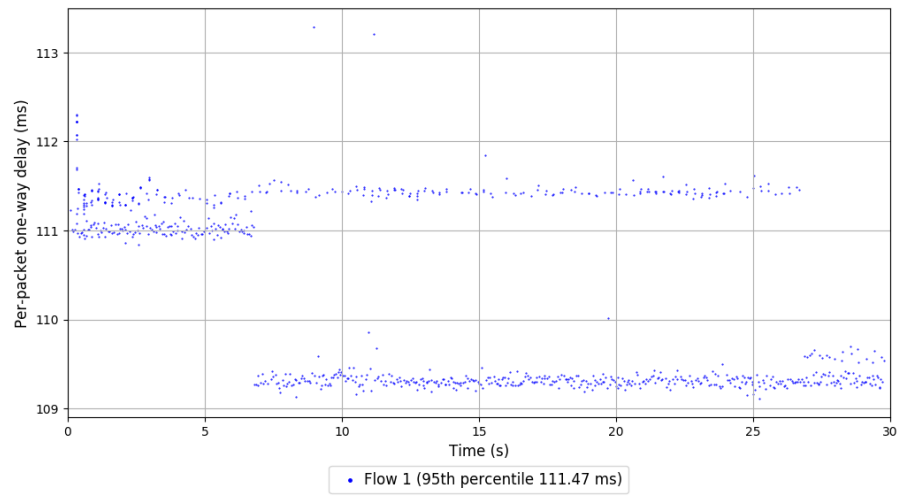
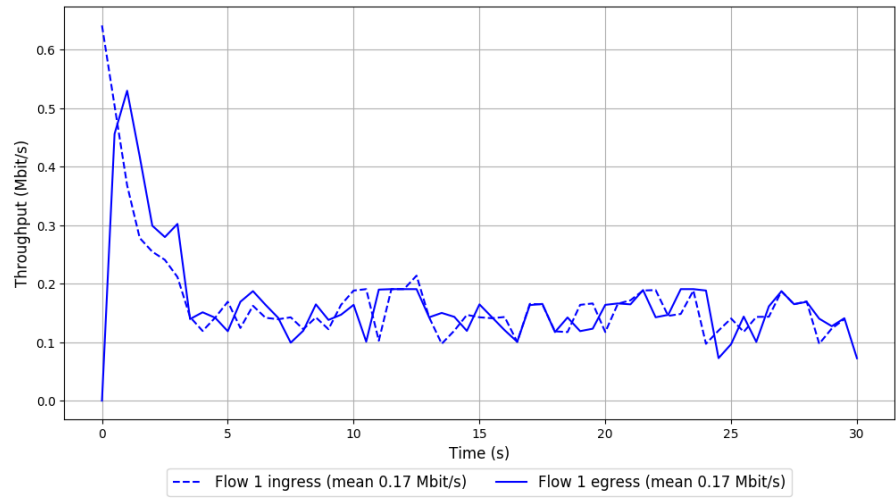
-- Flow 1:

Average throughput: 0.17 Mbit/s

95th percentile per-packet one-way delay: 111.472 ms

Loss rate: 0.68%

Run 8: Report of Sprout — Data Link

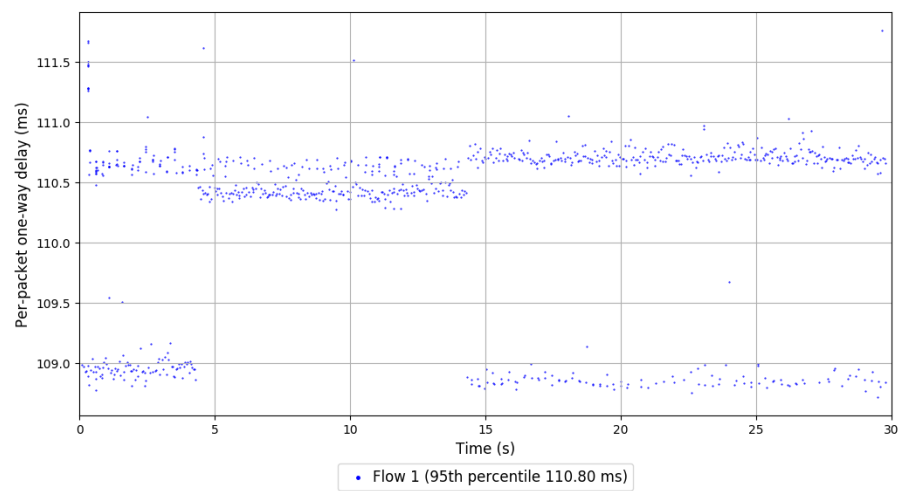
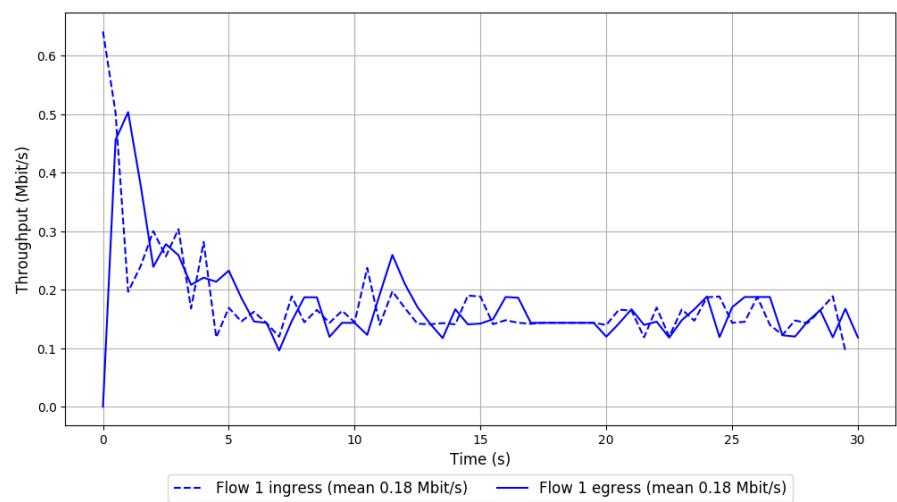


Run 9: Statistics of Sprout

Start at: 2018-07-24 23:28:06
End at: 2018-07-24 23:28:36
Local clock offset: -1.178 ms
Remote clock offset: -0.411 ms

Below is generated by plot.py at 2018-07-25 01:31:08
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 110.799 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 110.799 ms
Loss rate: 0.44%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-07-24 23:50:49

End at: 2018-07-24 23:51:19

Local clock offset: -0.001 ms

Remote clock offset: 0.374 ms

Below is generated by plot.py at 2018-07-25 01:31:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 111.135 ms

Loss rate: 1.05%

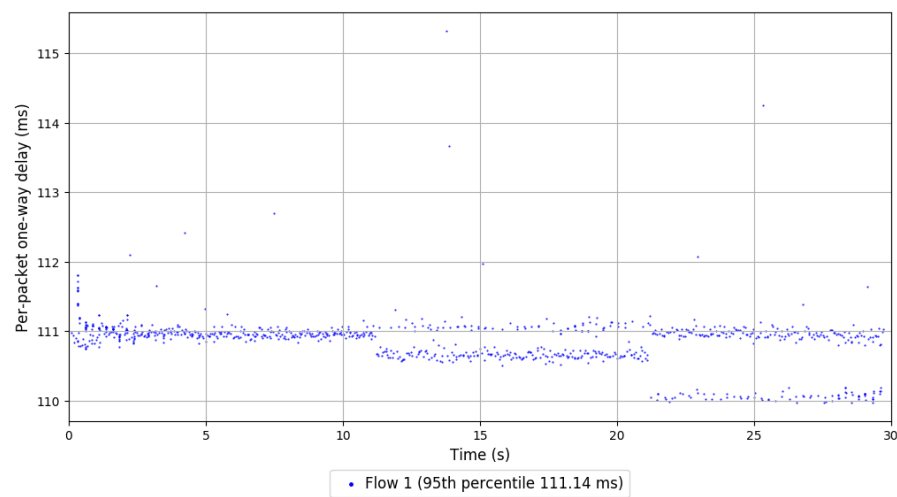
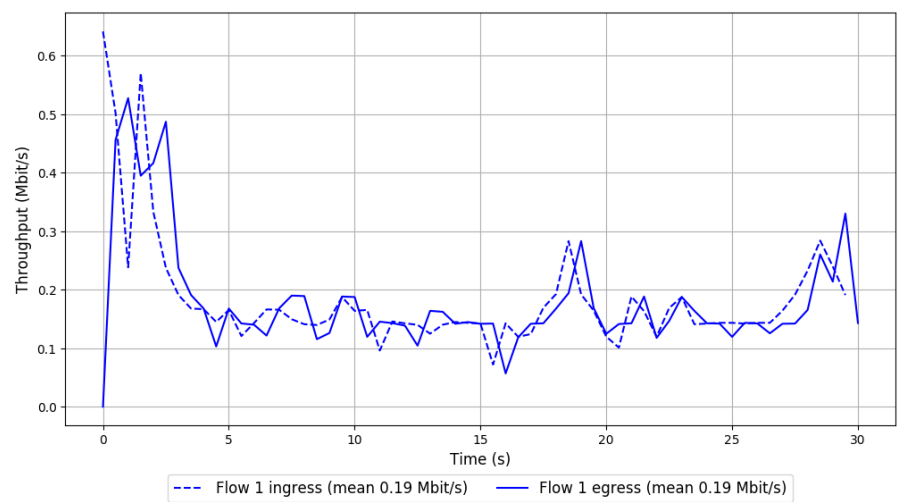
-- Flow 1:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 111.135 ms

Loss rate: 1.05%

Run 10: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

Start at: 2018-07-24 20:18:44

End at: 2018-07-24 20:19:14

Local clock offset: -0.067 ms

Remote clock offset: -0.066 ms

Below is generated by plot.py at 2018-07-25 01:31:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 211.09 Mbit/s

95th percentile per-packet one-way delay: 111.587 ms

Loss rate: 0.86%

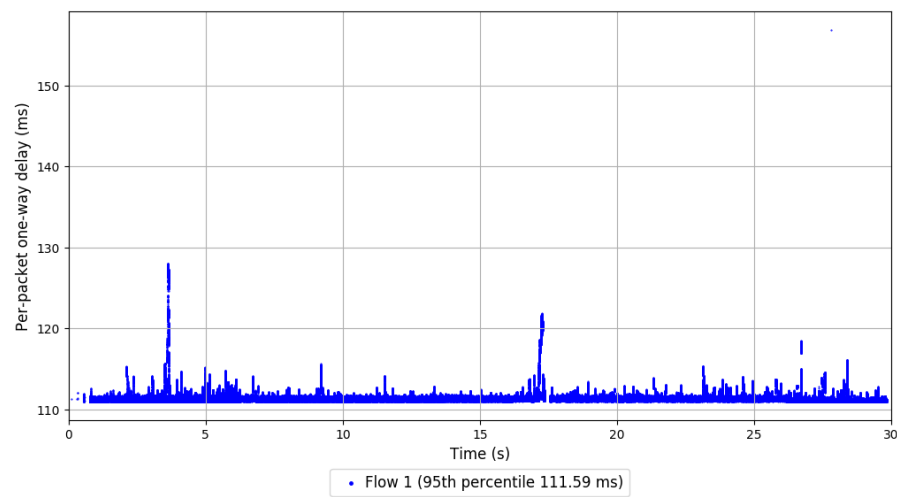
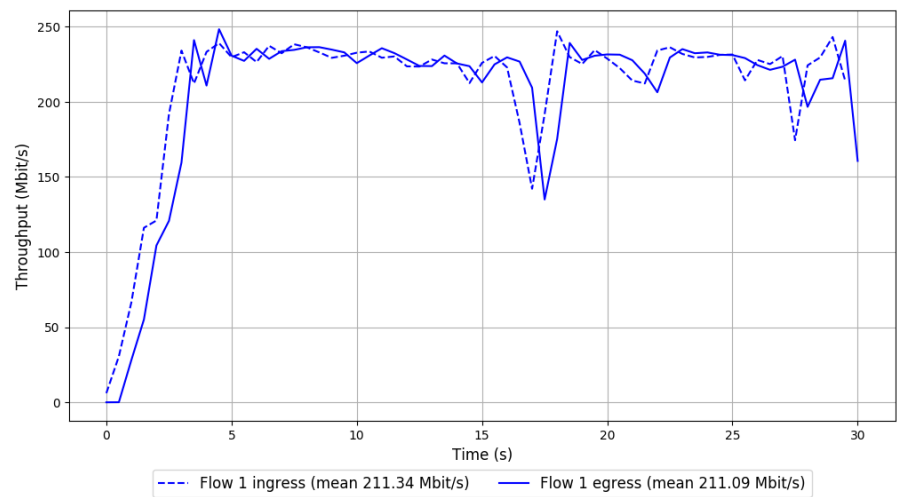
-- Flow 1:

Average throughput: 211.09 Mbit/s

95th percentile per-packet one-way delay: 111.587 ms

Loss rate: 0.86%

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



Run 2: Statistics of TaoVA-100x

Start at: 2018-07-24 20:41:20

End at: 2018-07-24 20:41:50

Local clock offset: -0.399 ms

Remote clock offset: 0.318 ms

Below is generated by plot.py at 2018-07-25 01:31:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 148.69 Mbit/s

95th percentile per-packet one-way delay: 111.624 ms

Loss rate: 1.09%

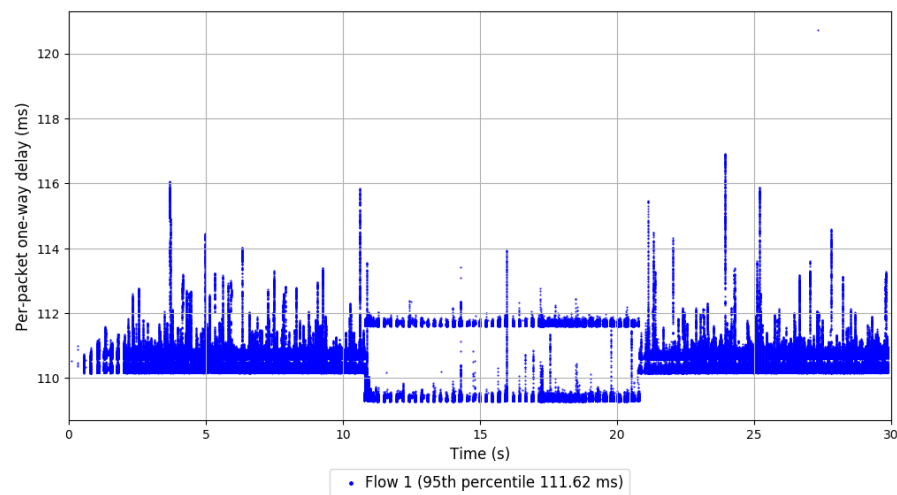
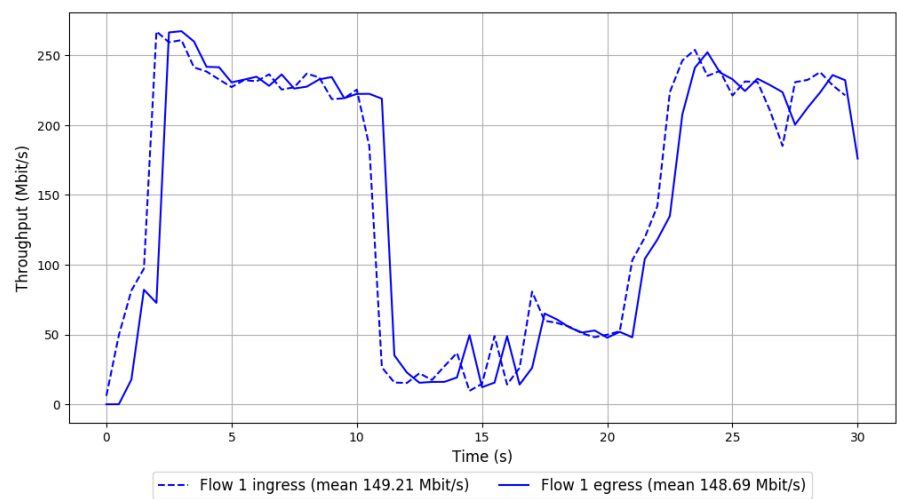
-- Flow 1:

Average throughput: 148.69 Mbit/s

95th percentile per-packet one-way delay: 111.624 ms

Loss rate: 1.09%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-07-24 21:03:49

End at: 2018-07-24 21:04:19

Local clock offset: -0.176 ms

Remote clock offset: 0.319 ms

Below is generated by plot.py at 2018-07-25 01:31:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 221.08 Mbit/s

95th percentile per-packet one-way delay: 111.145 ms

Loss rate: 0.78%

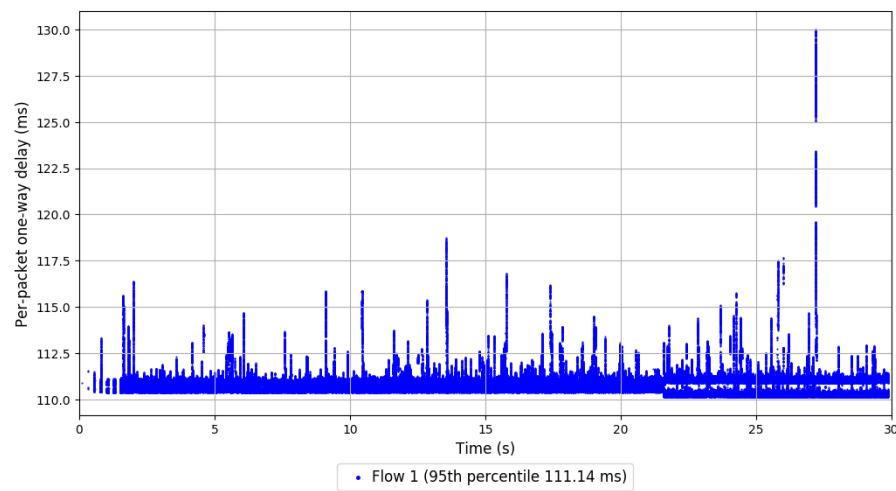
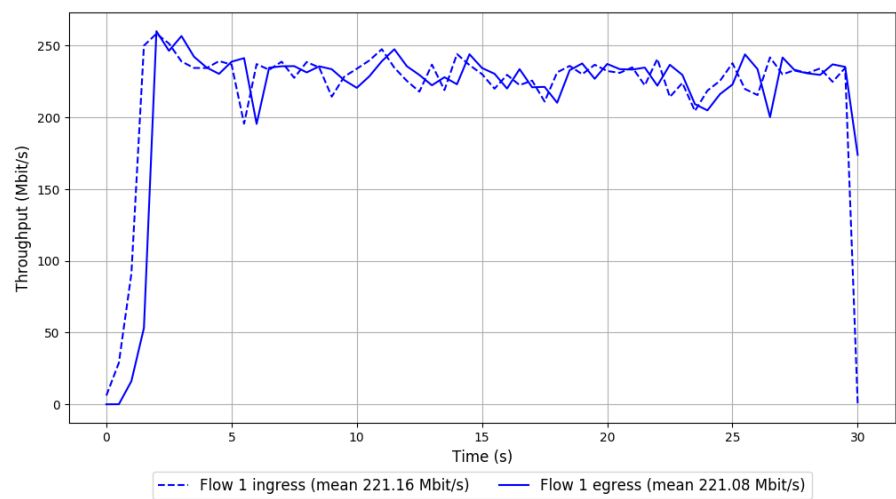
-- Flow 1:

Average throughput: 221.08 Mbit/s

95th percentile per-packet one-way delay: 111.145 ms

Loss rate: 0.78%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-07-24 21:26:22

End at: 2018-07-24 21:26:52

Local clock offset: -0.234 ms

Remote clock offset: -0.078 ms

Below is generated by plot.py at 2018-07-25 01:31:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.43 Mbit/s

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

Loss rate: 0.94%

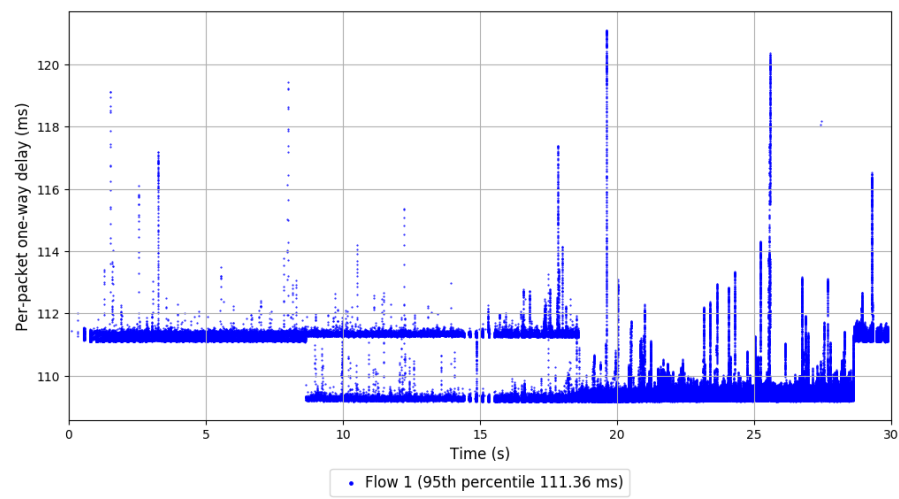
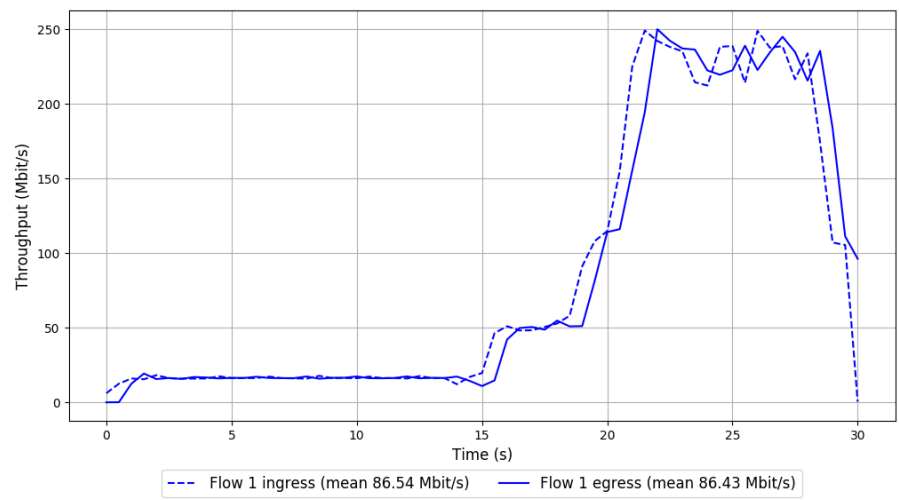
-- Flow 1:

Average throughput: 86.43 Mbit/s

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

Loss rate: 0.94%

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

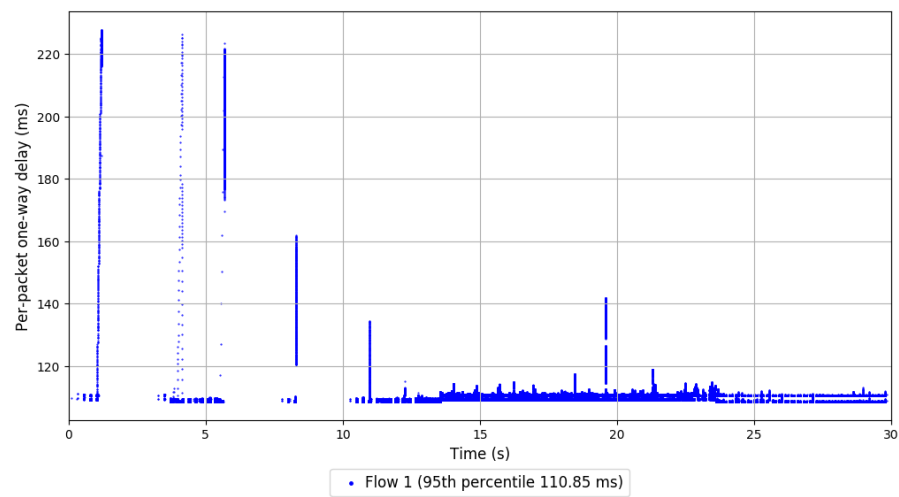
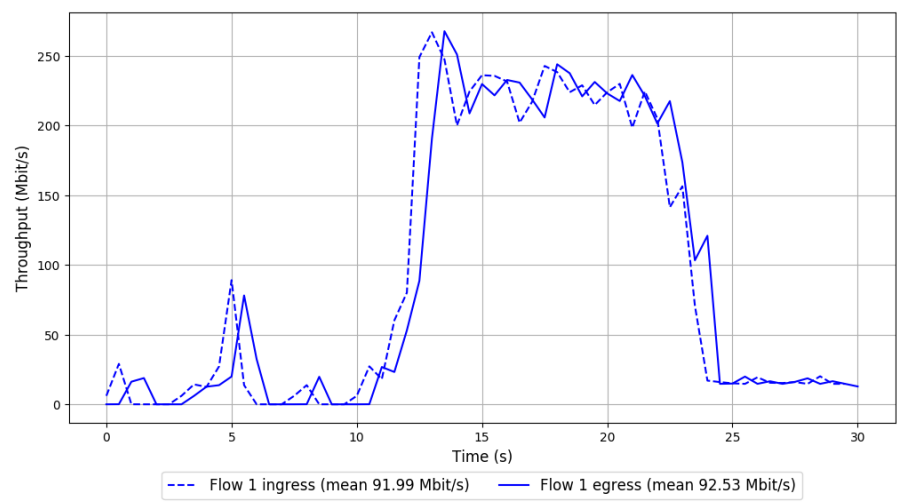


Run 5: Statistics of TaoVA-100x

Start at: 2018-07-24 21:48:47
End at: 2018-07-24 21:49:17
Local clock offset: -1.365 ms
Remote clock offset: -0.347 ms

Below is generated by plot.py at 2018-07-25 01:31:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 92.53 Mbit/s
95th percentile per-packet one-way delay: 110.851 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 92.53 Mbit/s
95th percentile per-packet one-way delay: 110.851 ms
Loss rate: 0.13%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-07-24 22:11:15

End at: 2018-07-24 22:11:45

Local clock offset: -0.22 ms

Remote clock offset: 0.045 ms

Below is generated by plot.py at 2018-07-25 01:35:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 217.69 Mbit/s

95th percentile per-packet one-way delay: 111.221 ms

Loss rate: 0.77%

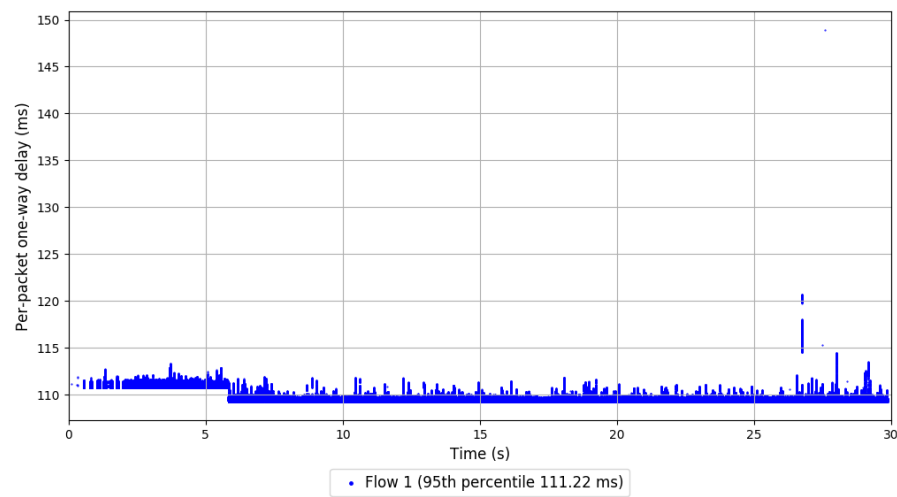
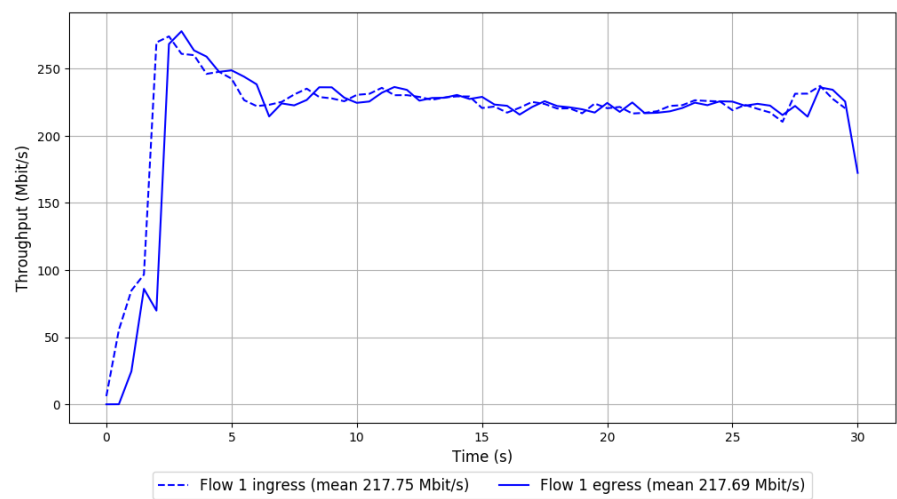
-- Flow 1:

Average throughput: 217.69 Mbit/s

95th percentile per-packet one-way delay: 111.221 ms

Loss rate: 0.77%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-07-24 22:33:46

End at: 2018-07-24 22:34:16

Local clock offset: -0.043 ms

Remote clock offset: 0.429 ms

Below is generated by plot.py at 2018-07-25 01:35:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 174.20 Mbit/s

95th percentile per-packet one-way delay: 110.931 ms

Loss rate: 0.97%

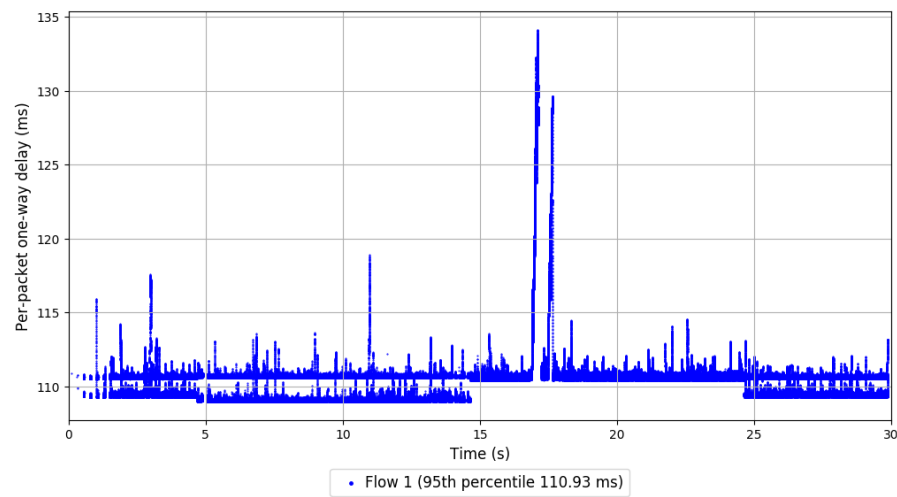
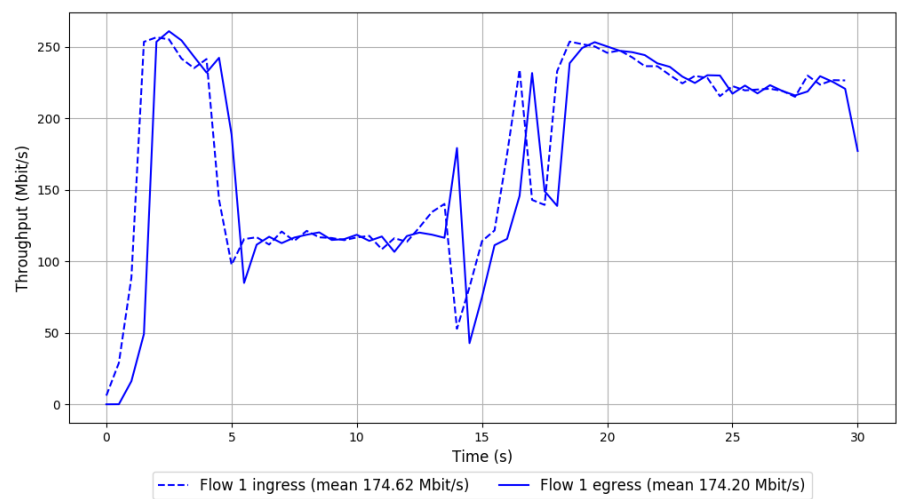
-- Flow 1:

Average throughput: 174.20 Mbit/s

95th percentile per-packet one-way delay: 110.931 ms

Loss rate: 0.97%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-07-24 22:56:29

End at: 2018-07-24 22:56:59

Local clock offset: 0.152 ms

Remote clock offset: 0.344 ms

Below is generated by plot.py at 2018-07-25 01:36:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 216.51 Mbit/s

95th percentile per-packet one-way delay: 111.241 ms

Loss rate: 0.84%

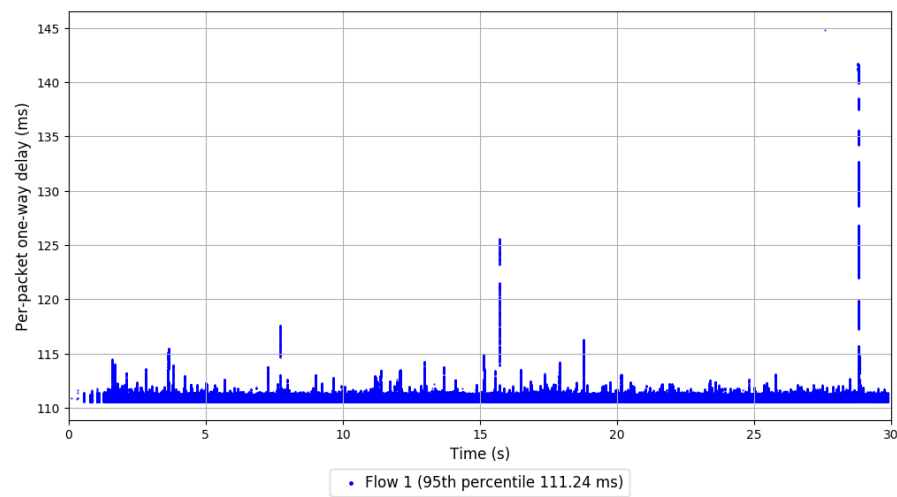
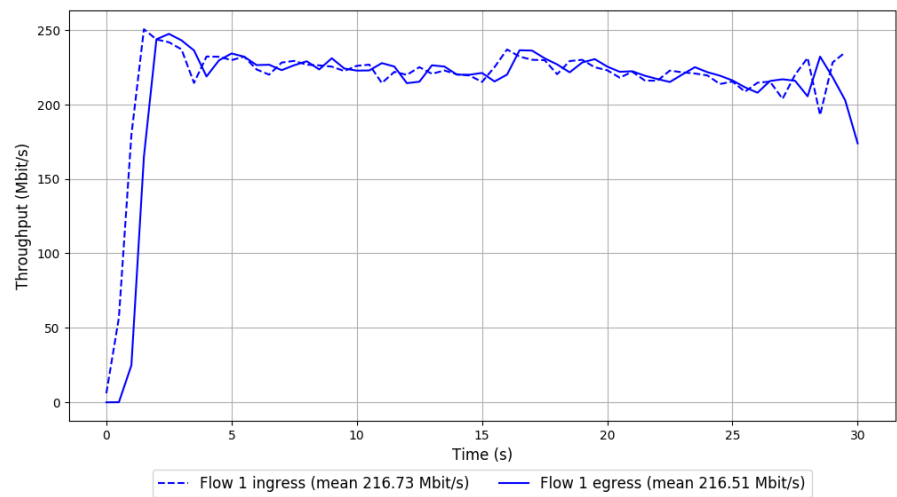
-- Flow 1:

Average throughput: 216.51 Mbit/s

95th percentile per-packet one-way delay: 111.241 ms

Loss rate: 0.84%

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

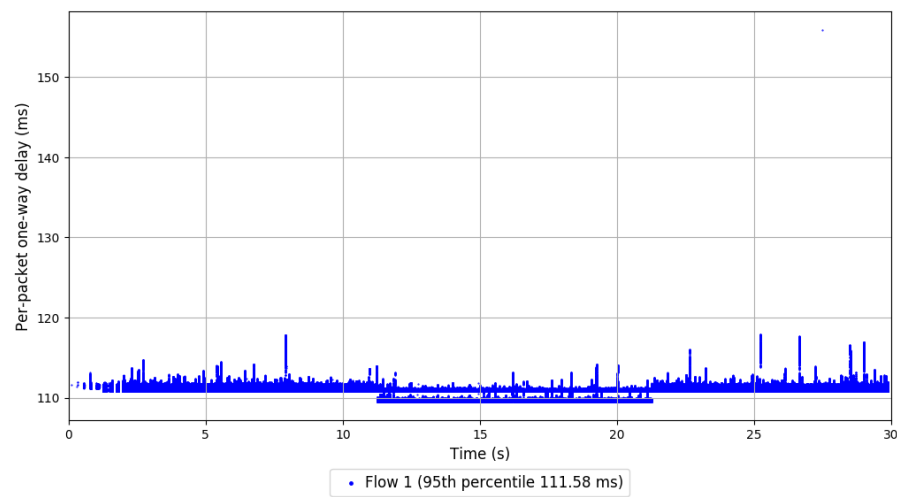
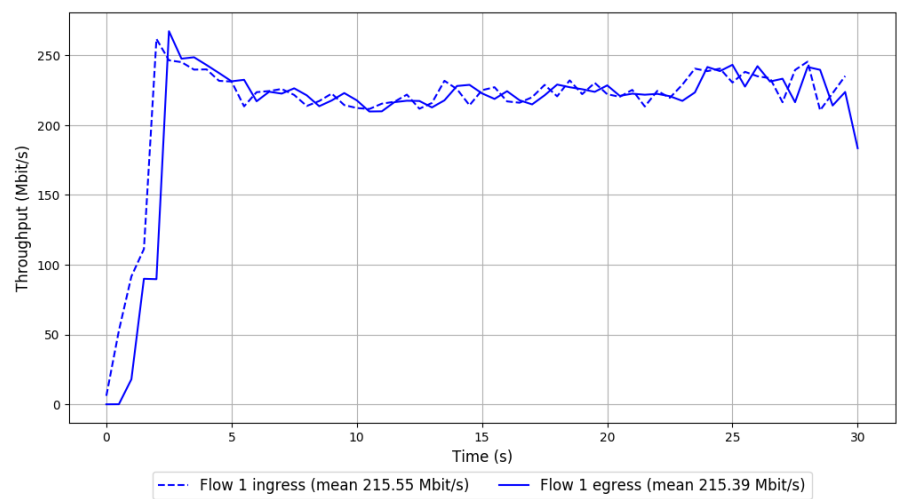


Run 9: Statistics of TaoVA-100x

Start at: 2018-07-24 23:19:29
End at: 2018-07-24 23:19:59
Local clock offset: -0.202 ms
Remote clock offset: -0.363 ms

Below is generated by plot.py at 2018-07-25 01:36:14
Datalink statistics
-- Total of 1 flow:
Average throughput: 215.39 Mbit/s
95th percentile per-packet one-way delay: 111.580 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 215.39 Mbit/s
95th percentile per-packet one-way delay: 111.580 ms
Loss rate: 0.81%

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



Run 10: Statistics of TaoVA-100x

Start at: 2018-07-24 23:42:10

End at: 2018-07-24 23:42:40

Local clock offset: 0.004 ms

Remote clock offset: 0.381 ms

Below is generated by plot.py at 2018-07-25 01:37:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 218.05 Mbit/s

95th percentile per-packet one-way delay: 111.110 ms

Loss rate: 0.82%

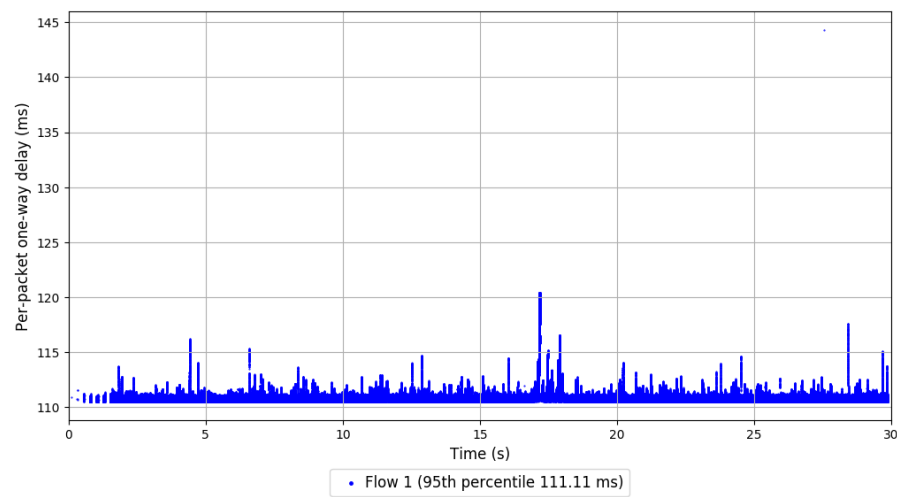
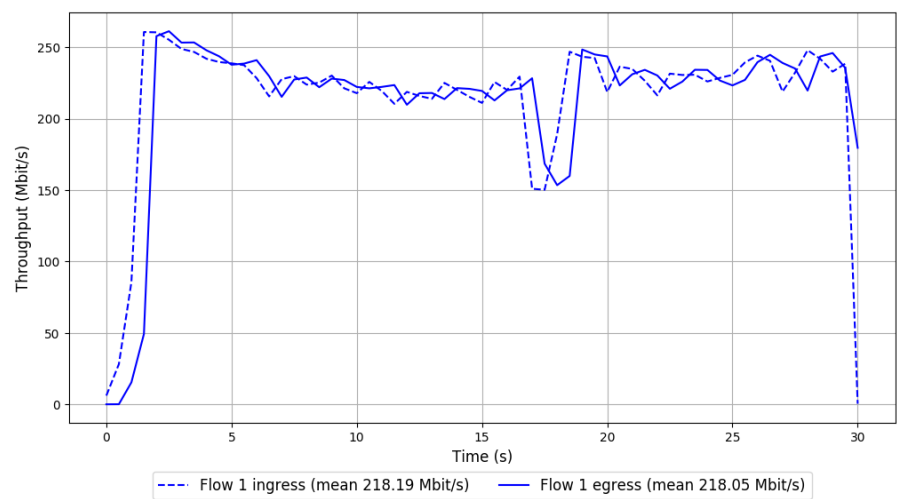
-- Flow 1:

Average throughput: 218.05 Mbit/s

95th percentile per-packet one-way delay: 111.110 ms

Loss rate: 0.82%

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



Run 1: Statistics of TCP Vegas

Start at: 2018-07-24 20:32:24

End at: 2018-07-24 20:32:54

Local clock offset: 0.075 ms

Remote clock offset: 0.346 ms

Below is generated by plot.py at 2018-07-25 01:37:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.47 Mbit/s

95th percentile per-packet one-way delay: 124.235 ms

Loss rate: 0.28%

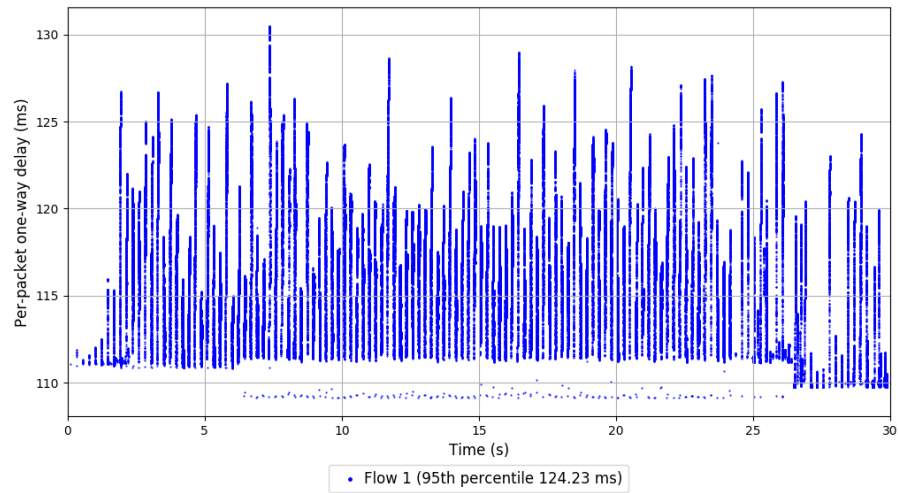
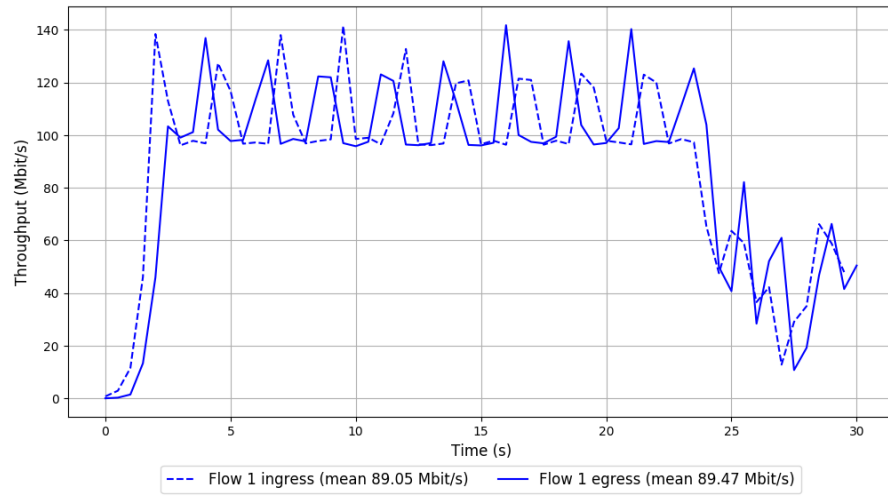
-- Flow 1:

Average throughput: 89.47 Mbit/s

95th percentile per-packet one-way delay: 124.235 ms

Loss rate: 0.28%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-07-24 20:54:56

End at: 2018-07-24 20:55:26

Local clock offset: -0.37 ms

Remote clock offset: 0.344 ms

Below is generated by plot.py at 2018-07-25 01:37:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 21.35 Mbit/s

95th percentile per-packet one-way delay: 116.647 ms

Loss rate: 0.35%

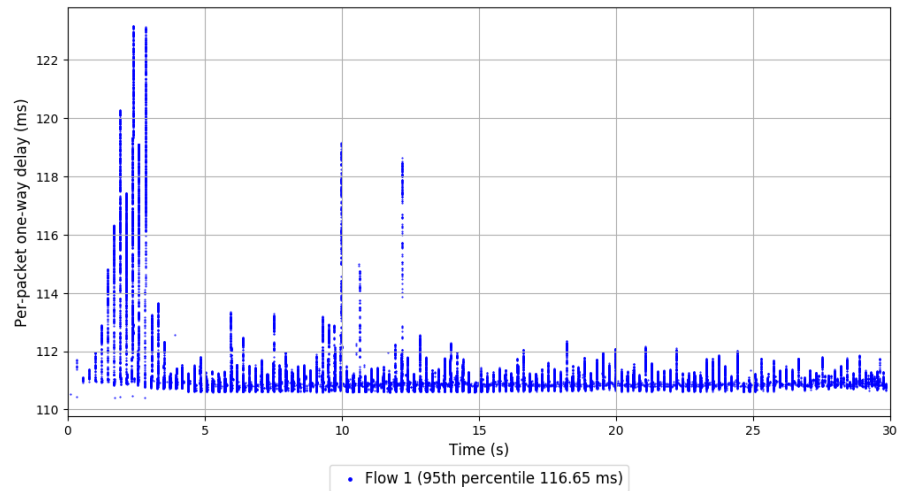
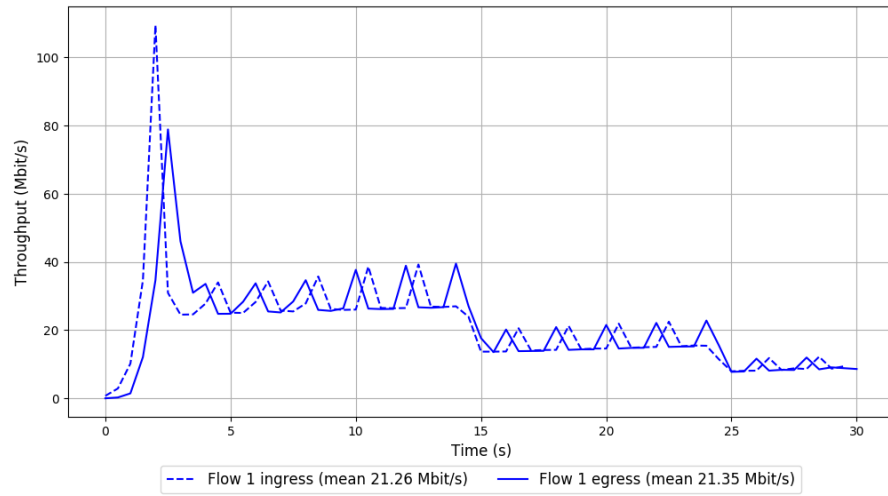
-- Flow 1:

Average throughput: 21.35 Mbit/s

95th percentile per-packet one-way delay: 116.647 ms

Loss rate: 0.35%

Run 2: Report of TCP Vegas — Data Link

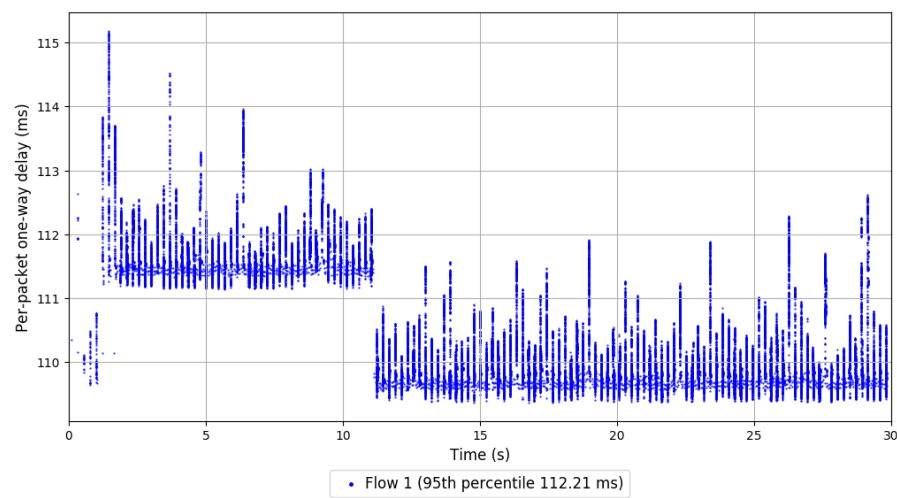
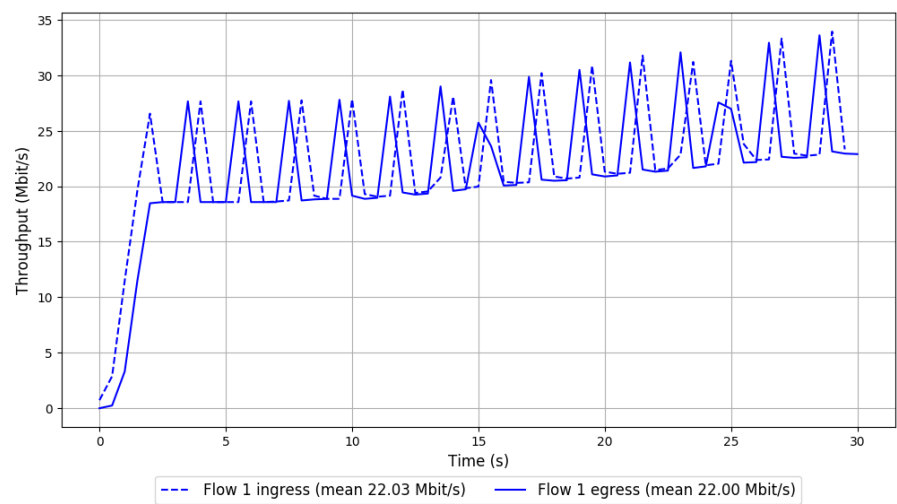


Run 3: Statistics of TCP Vegas

Start at: 2018-07-24 21:17:29
End at: 2018-07-24 21:17:59
Local clock offset: -0.202 ms
Remote clock offset: -0.072 ms

Below is generated by plot.py at 2018-07-25 01:37:53
Datalink statistics
-- Total of 1 flow:
Average throughput: 22.00 Mbit/s
95th percentile per-packet one-way delay: 112.209 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 22.00 Mbit/s
95th percentile per-packet one-way delay: 112.209 ms
Loss rate: 0.87%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-07-24 21:39:52

End at: 2018-07-24 21:40:22

Local clock offset: -0.106 ms

Remote clock offset: 0.343 ms

Below is generated by plot.py at 2018-07-25 01:37:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.25 Mbit/s

95th percentile per-packet one-way delay: 125.224 ms

Loss rate: 0.46%

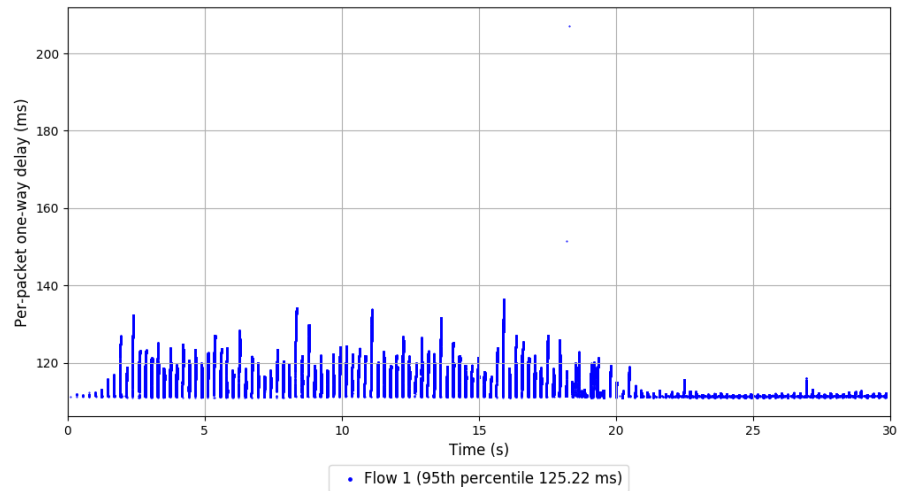
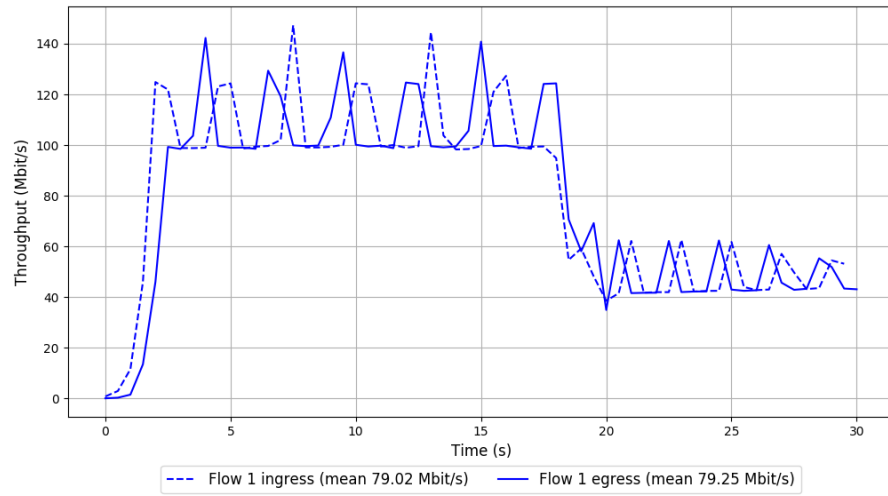
-- Flow 1:

Average throughput: 79.25 Mbit/s

95th percentile per-packet one-way delay: 125.224 ms

Loss rate: 0.46%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-07-24 22:02:26

End at: 2018-07-24 22:02:56

Local clock offset: -0.234 ms

Remote clock offset: 0.026 ms

Below is generated by plot.py at 2018-07-25 01:37:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 35.20 Mbit/s

95th percentile per-packet one-way delay: 112.987 ms

Loss rate: 0.83%

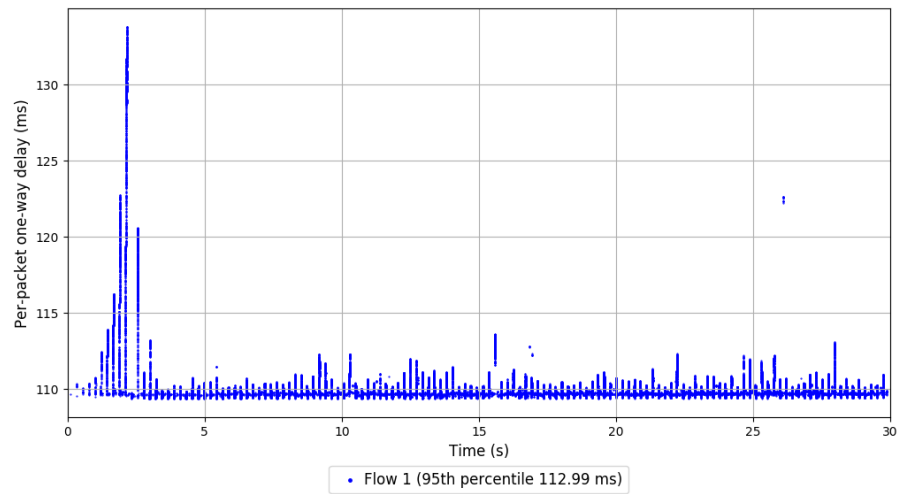
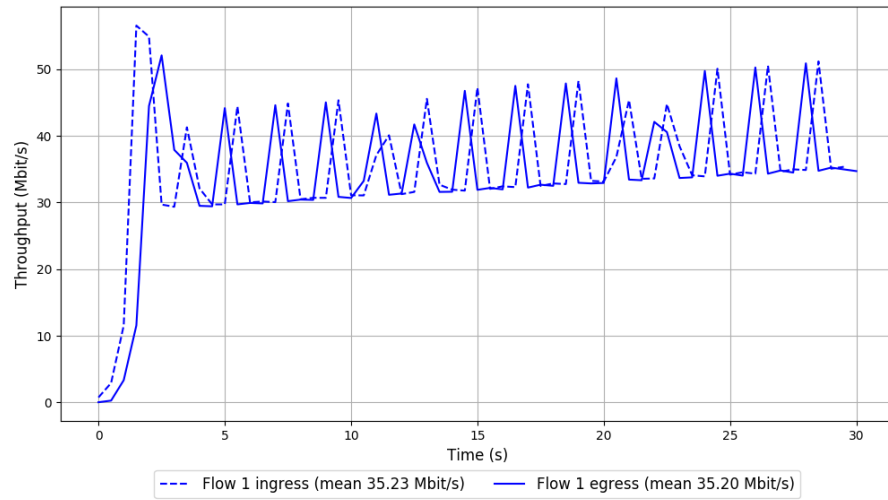
-- Flow 1:

Average throughput: 35.20 Mbit/s

95th percentile per-packet one-way delay: 112.987 ms

Loss rate: 0.83%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-07-24 22:24:57

End at: 2018-07-24 22:25:27

Local clock offset: -0.184 ms

Remote clock offset: 0.027 ms

Below is generated by plot.py at 2018-07-25 01:37:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.66 Mbit/s

95th percentile per-packet one-way delay: 123.988 ms

Loss rate: 0.29%

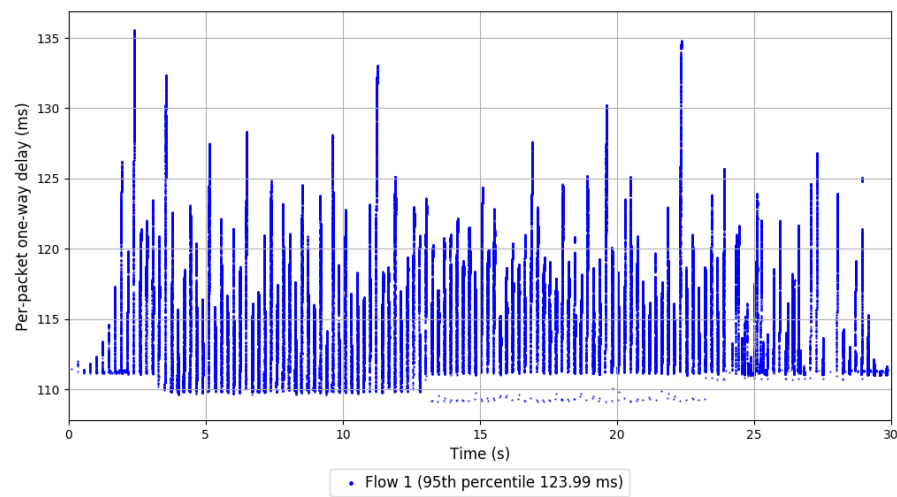
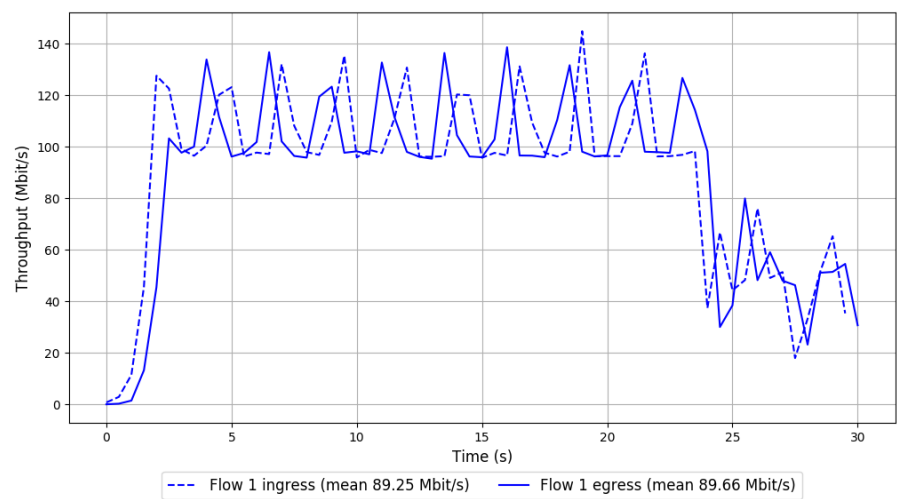
-- Flow 1:

Average throughput: 89.66 Mbit/s

95th percentile per-packet one-way delay: 123.988 ms

Loss rate: 0.29%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-07-24 22:47:22

End at: 2018-07-24 22:47:52

Local clock offset: -0.107 ms

Remote clock offset: 0.019 ms

Below is generated by plot.py at 2018-07-25 01:37:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 29.70 Mbit/s

95th percentile per-packet one-way delay: 116.373 ms

Loss rate: 0.70%

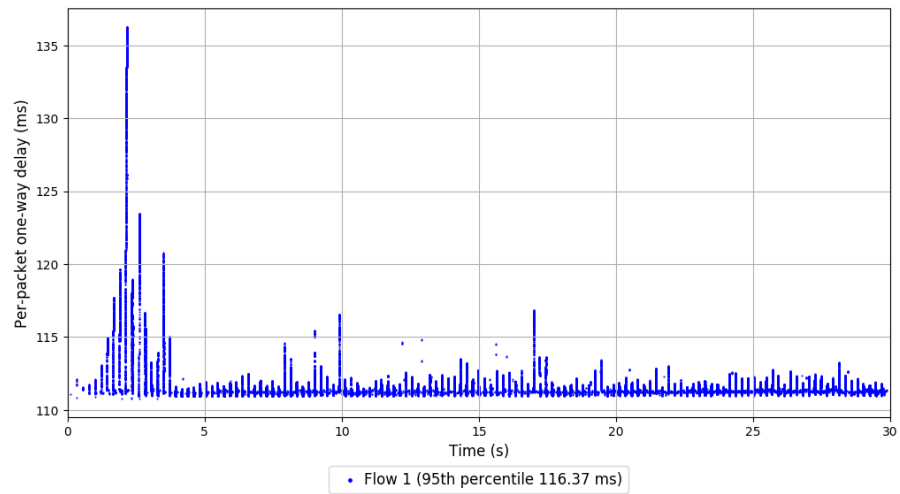
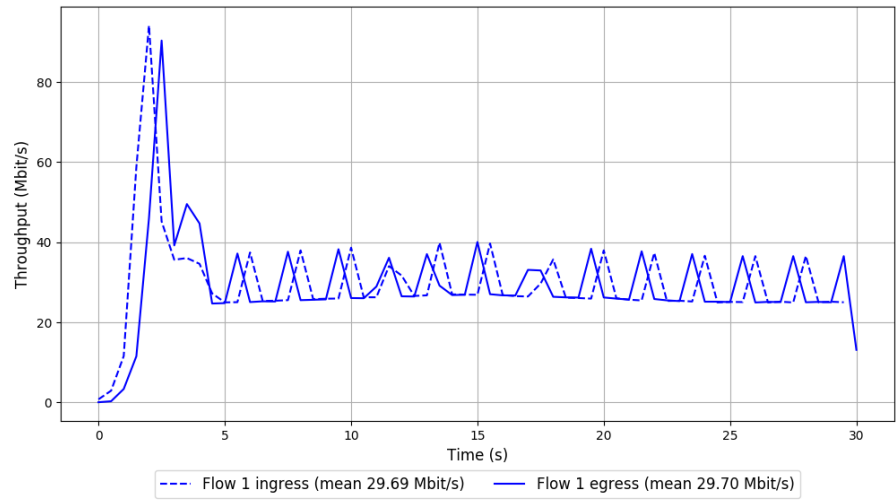
-- Flow 1:

Average throughput: 29.70 Mbit/s

95th percentile per-packet one-way delay: 116.373 ms

Loss rate: 0.70%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-07-24 23:10:21

End at: 2018-07-24 23:10:51

Local clock offset: 0.154 ms

Remote clock offset: 0.355 ms

Below is generated by plot.py at 2018-07-25 01:37:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 102.54 Mbit/s

95th percentile per-packet one-way delay: 125.735 ms

Loss rate: 0.80%

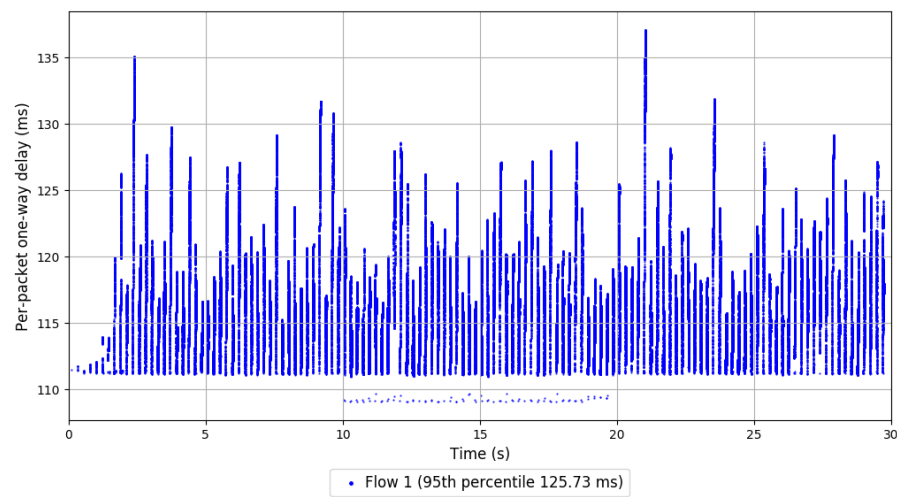
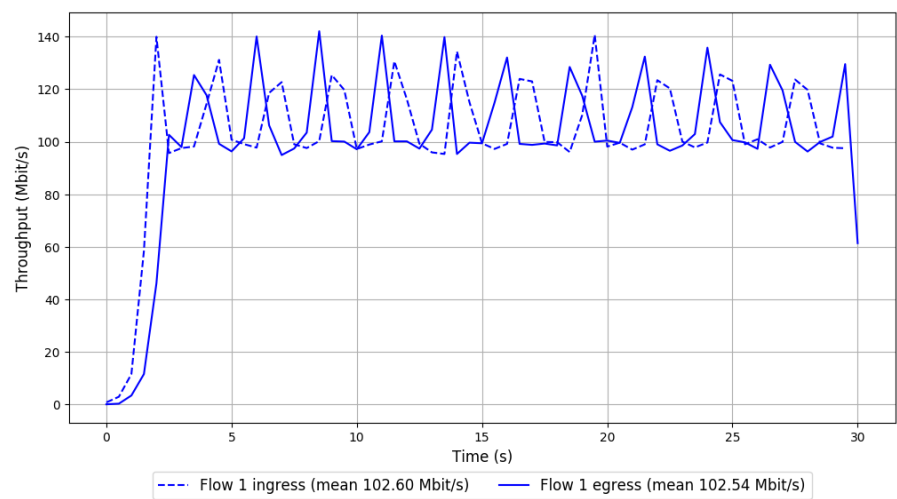
-- Flow 1:

Average throughput: 102.54 Mbit/s

95th percentile per-packet one-way delay: 125.735 ms

Loss rate: 0.80%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-07-24 23:33:04

End at: 2018-07-24 23:33:34

Local clock offset: -1.272 ms

Remote clock offset: 0.036 ms

Below is generated by plot.py at 2018-07-25 01:37:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 103.15 Mbit/s

95th percentile per-packet one-way delay: 122.188 ms

Loss rate: 0.78%

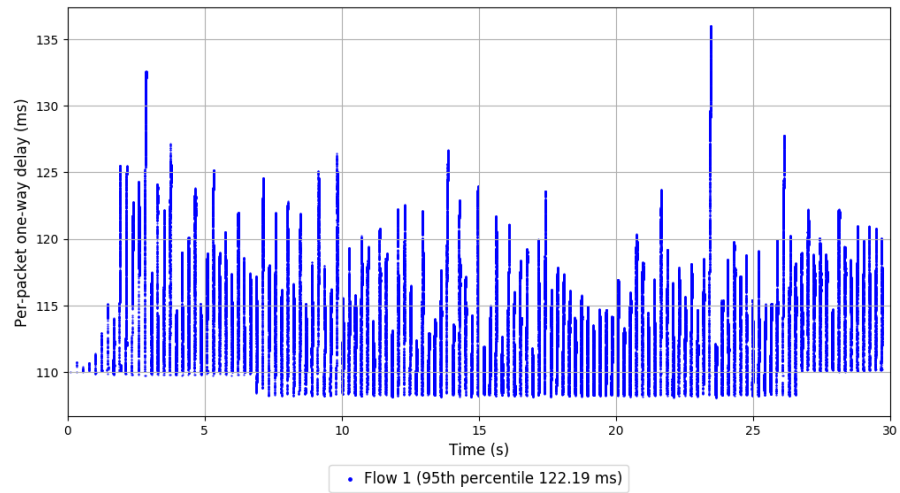
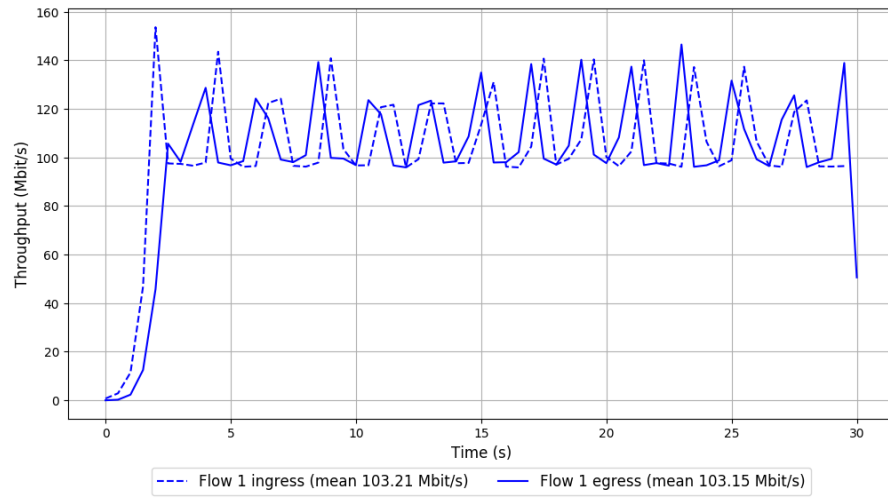
-- Flow 1:

Average throughput: 103.15 Mbit/s

95th percentile per-packet one-way delay: 122.188 ms

Loss rate: 0.78%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-07-24 23:55:59

End at: 2018-07-24 23:56:29

Local clock offset: -1.056 ms

Remote clock offset: 0.018 ms

Below is generated by plot.py at 2018-07-25 01:37:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 51.67 Mbit/s

95th percentile per-packet one-way delay: 112.708 ms

Loss rate: 0.79%

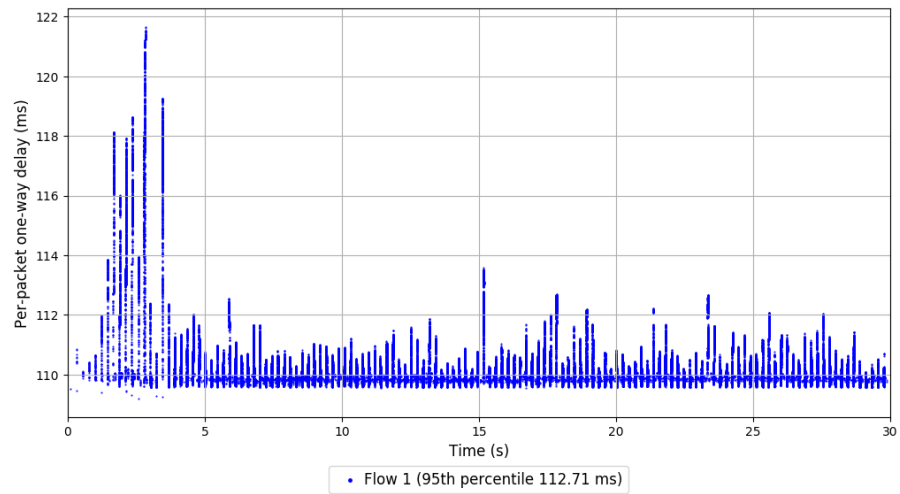
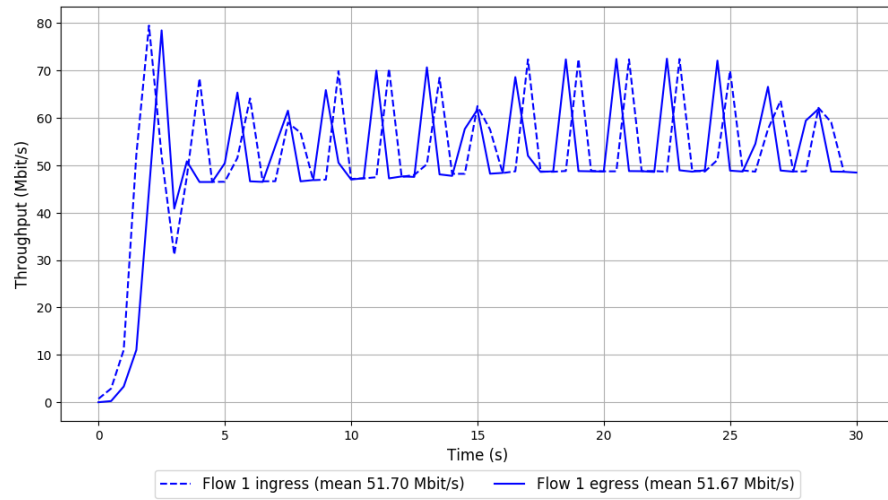
-- Flow 1:

Average throughput: 51.67 Mbit/s

95th percentile per-packet one-way delay: 112.708 ms

Loss rate: 0.79%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-07-24 20:34:51

End at: 2018-07-24 20:35:21

Local clock offset: -1.469 ms

Remote clock offset: 0.0 ms

Below is generated by plot.py at 2018-07-25 01:38:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 238.92 Mbit/s

95th percentile per-packet one-way delay: 186.453 ms

Loss rate: 1.11%

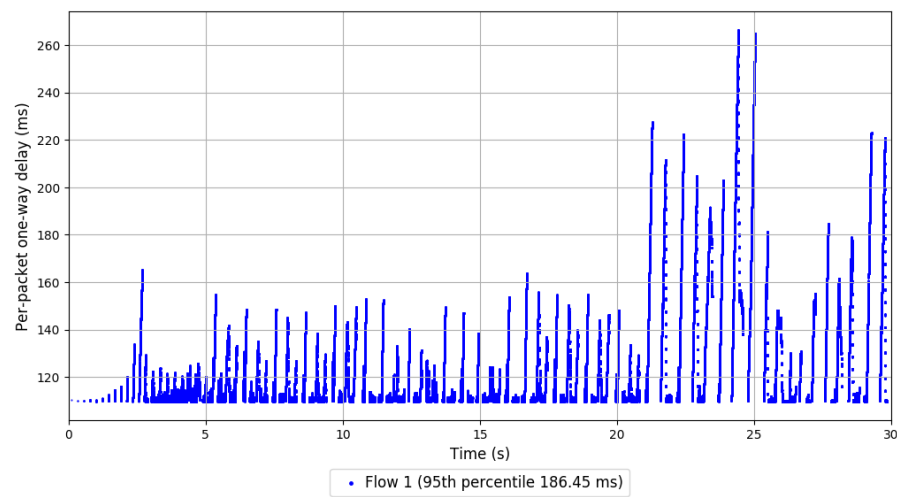
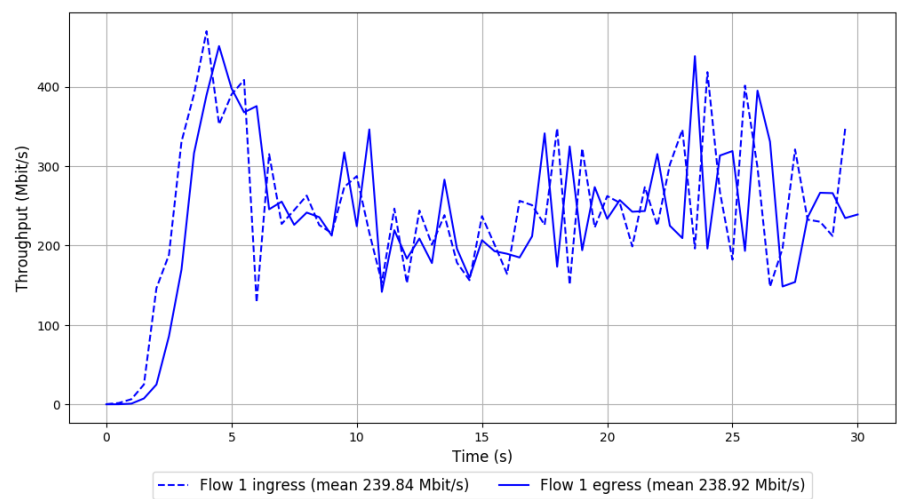
-- Flow 1:

Average throughput: 238.92 Mbit/s

95th percentile per-packet one-way delay: 186.453 ms

Loss rate: 1.11%

Run 1: Report of Verus — Data Link

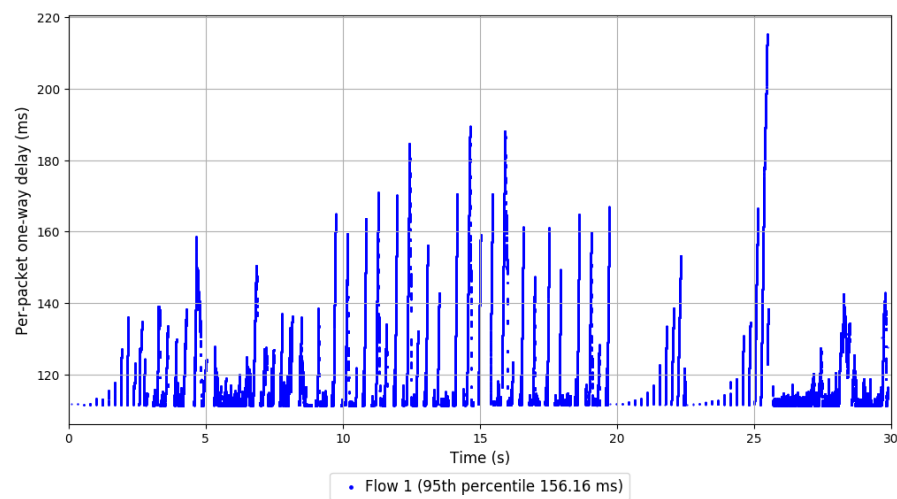
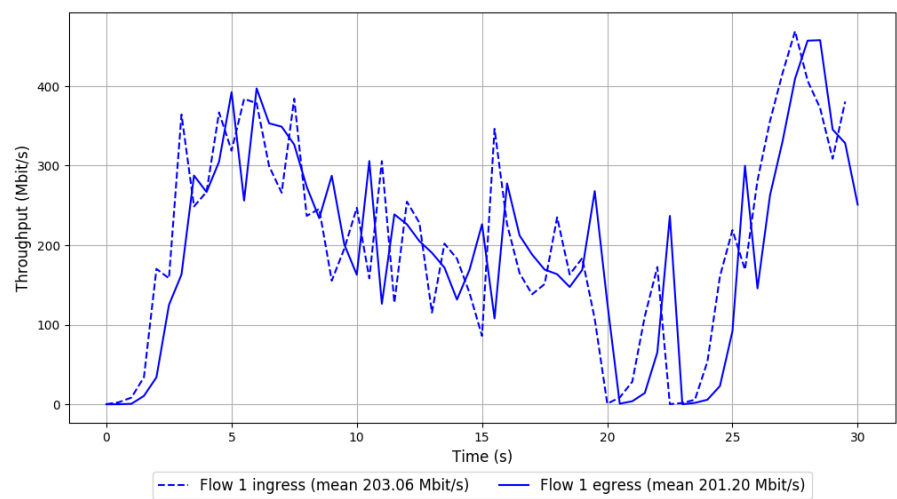


Run 2: Statistics of Verus

Start at: 2018-07-24 20:57:16
End at: 2018-07-24 20:57:46
Local clock offset: -0.067 ms
Remote clock offset: -0.008 ms

Below is generated by plot.py at 2018-07-25 01:38:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 201.20 Mbit/s
95th percentile per-packet one-way delay: 156.155 ms
Loss rate: 1.57%
-- Flow 1:
Average throughput: 201.20 Mbit/s
95th percentile per-packet one-way delay: 156.155 ms
Loss rate: 1.57%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-07-24 21:19:52

End at: 2018-07-24 21:20:22

Local clock offset: -0.254 ms

Remote clock offset: 0.286 ms

Below is generated by plot.py at 2018-07-25 01:39:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 245.90 Mbit/s

95th percentile per-packet one-way delay: 164.786 ms

Loss rate: 1.48%

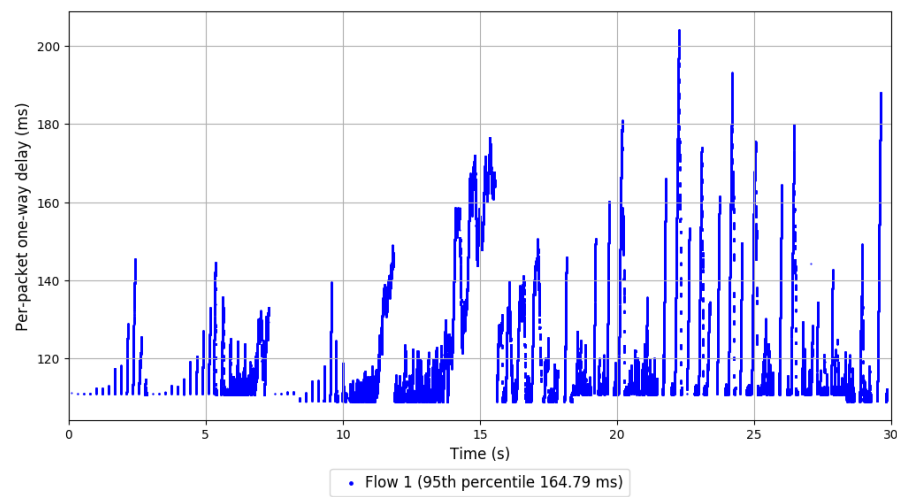
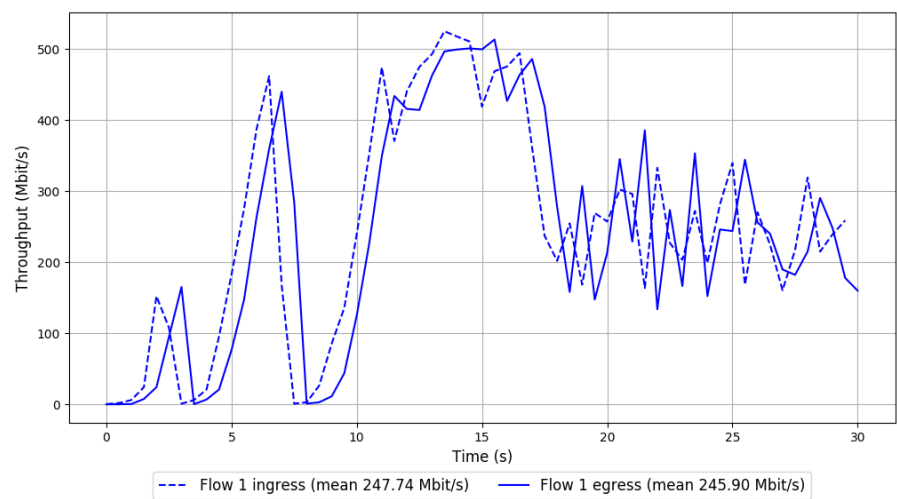
-- Flow 1:

Average throughput: 245.90 Mbit/s

95th percentile per-packet one-way delay: 164.786 ms

Loss rate: 1.48%

Run 3: Report of Verus — Data Link

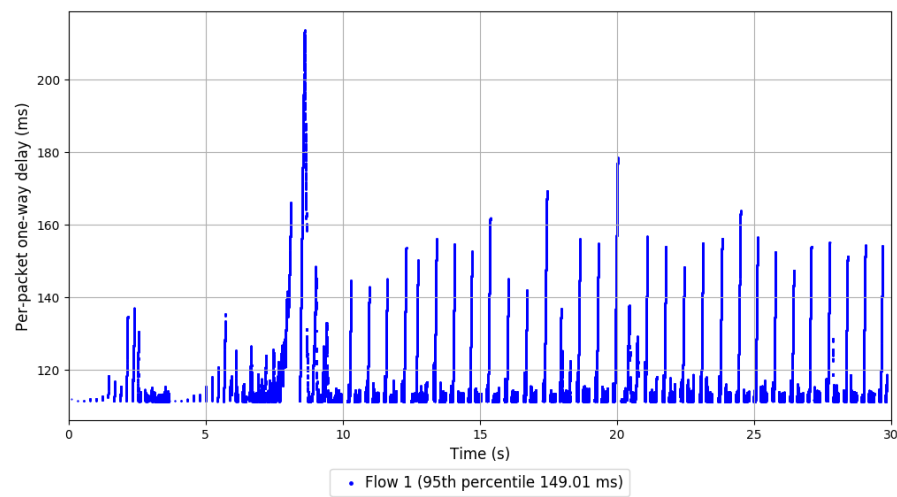
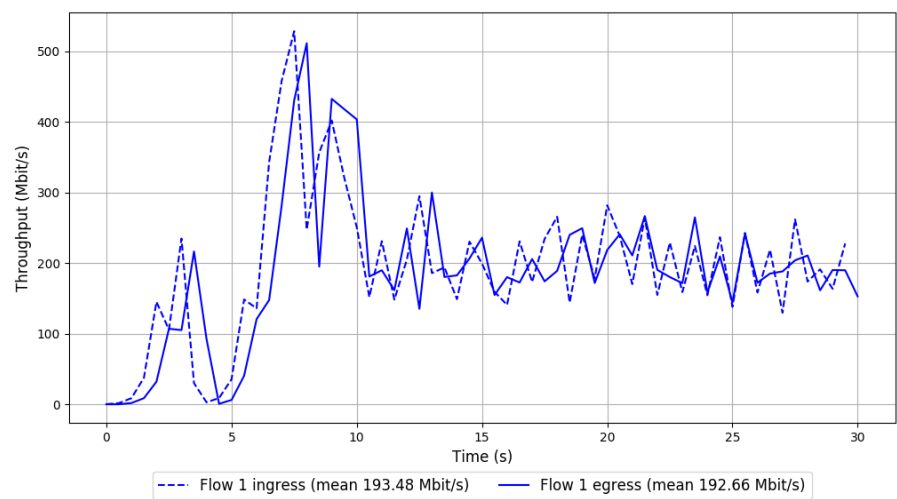


Run 4: Statistics of Verus

Start at: 2018-07-24 21:42:16
End at: 2018-07-24 21:42:46
Local clock offset: -0.268 ms
Remote clock offset: -0.003 ms

Below is generated by plot.py at 2018-07-25 01:39:15
Datalink statistics
-- Total of 1 flow:
Average throughput: 192.66 Mbit/s
95th percentile per-packet one-way delay: 149.007 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 192.66 Mbit/s
95th percentile per-packet one-way delay: 149.007 ms
Loss rate: 0.98%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-07-24 22:04:47

End at: 2018-07-24 22:05:17

Local clock offset: -1.501 ms

Remote clock offset: 0.017 ms

Below is generated by plot.py at 2018-07-25 01:39:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 214.07 Mbit/s

95th percentile per-packet one-way delay: 304.760 ms

Loss rate: 7.72%

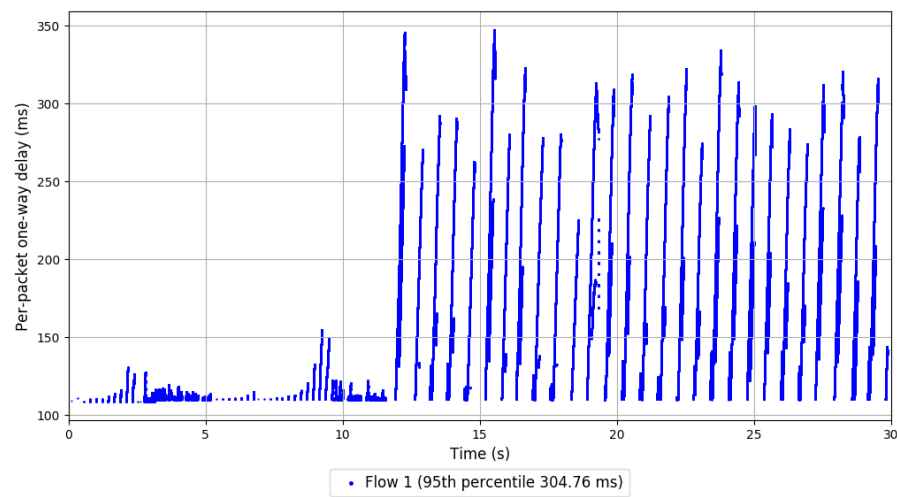
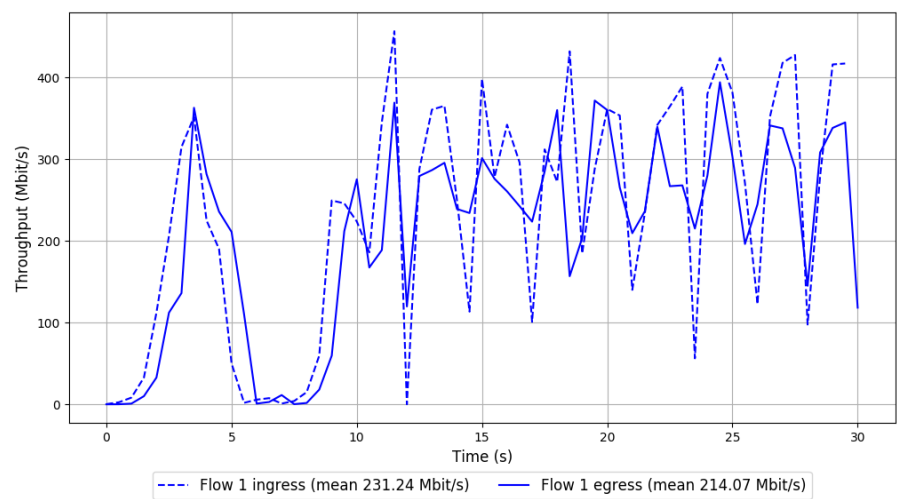
-- Flow 1:

Average throughput: 214.07 Mbit/s

95th percentile per-packet one-way delay: 304.760 ms

Loss rate: 7.72%

Run 5: Report of Verus — Data Link

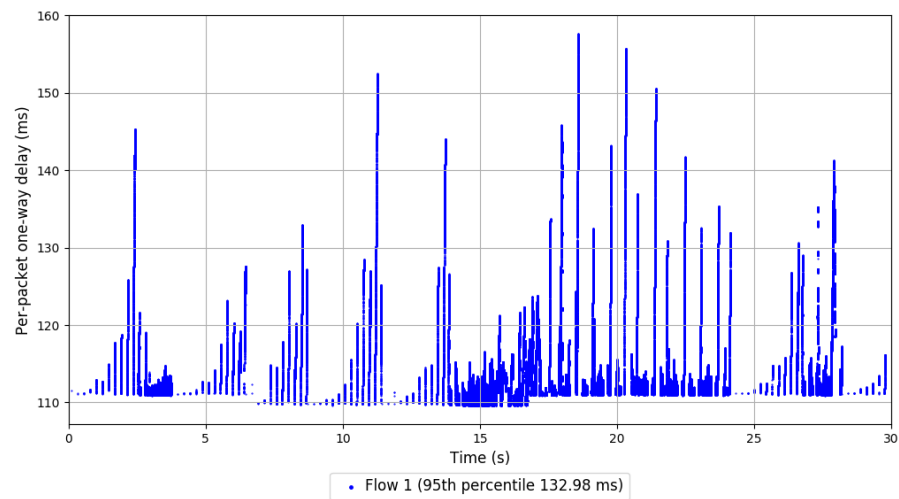
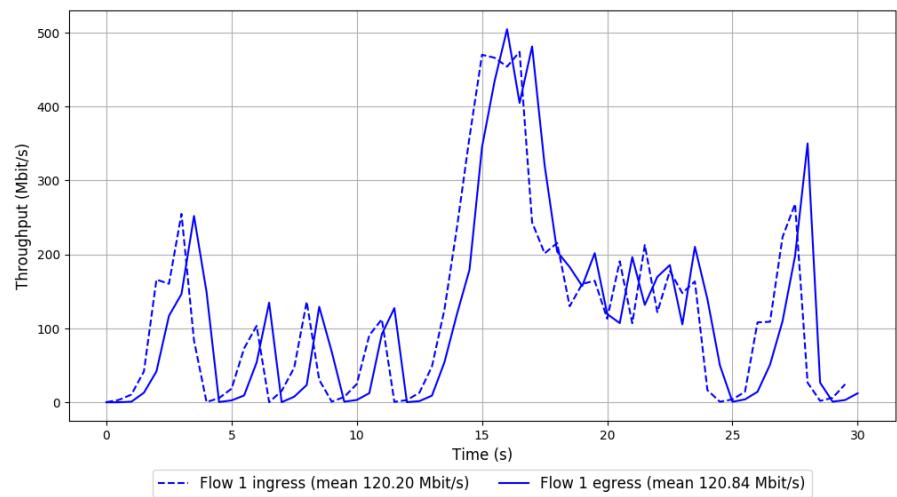


Run 6: Statistics of Verus

Start at: 2018-07-24 22:27:24
End at: 2018-07-24 22:27:54
Local clock offset: -0.235 ms
Remote clock offset: -0.002 ms

Below is generated by plot.py at 2018-07-25 01:39:15
Datalink statistics
-- Total of 1 flow:
Average throughput: 120.84 Mbit/s
95th percentile per-packet one-way delay: 132.980 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 120.84 Mbit/s
95th percentile per-packet one-way delay: 132.980 ms
Loss rate: 0.23%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-07-24 22:49:45

End at: 2018-07-24 22:50:15

Local clock offset: 0.068 ms

Remote clock offset: 0.366 ms

Below is generated by plot.py at 2018-07-25 01:39:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 201.48 Mbit/s

95th percentile per-packet one-way delay: 158.179 ms

Loss rate: 1.19%

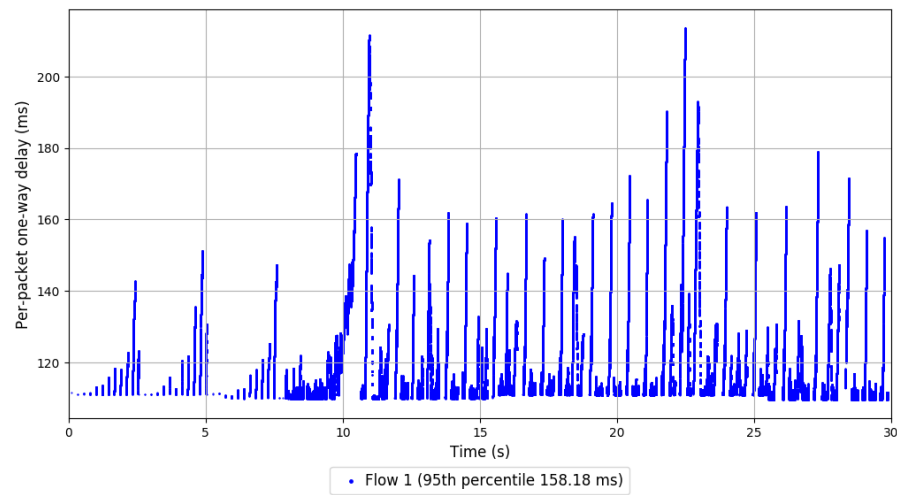
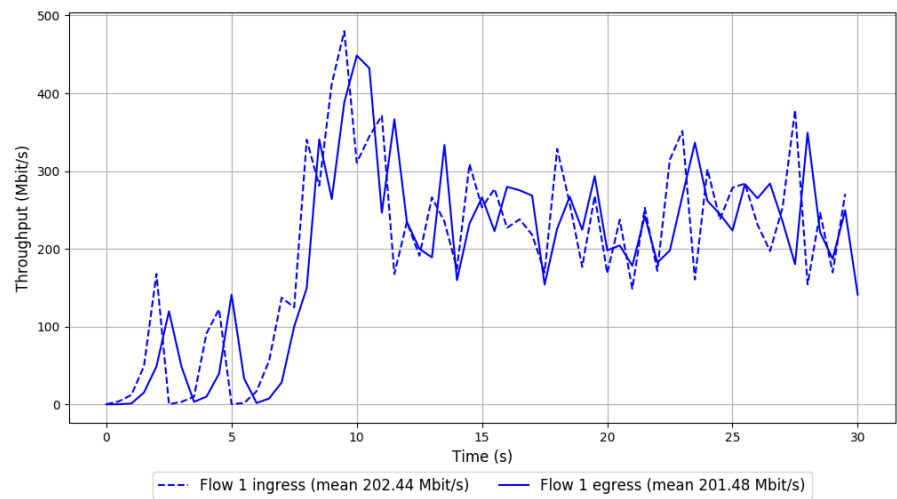
-- Flow 1:

Average throughput: 201.48 Mbit/s

95th percentile per-packet one-way delay: 158.179 ms

Loss rate: 1.19%

Run 7: Report of Verus — Data Link

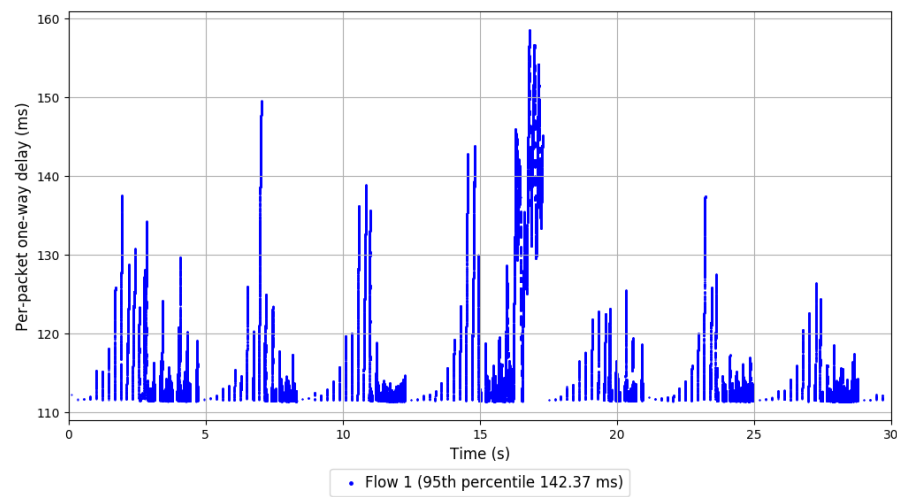
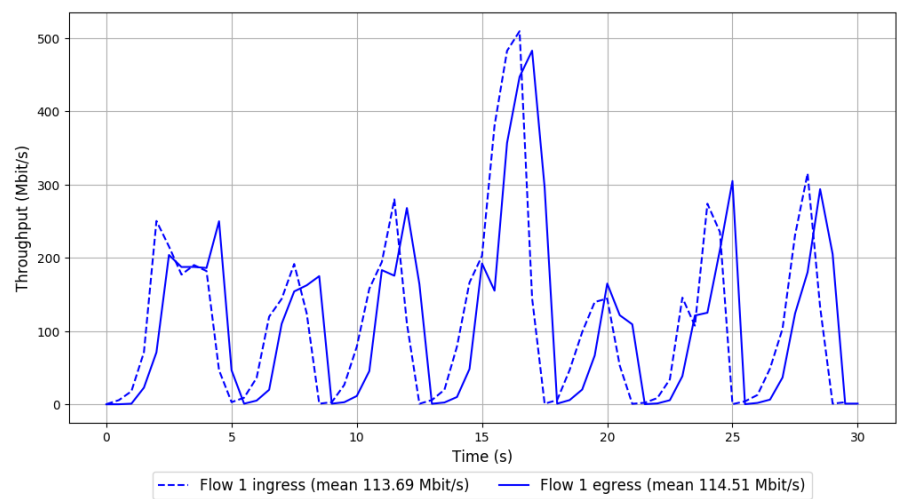


Run 8: Statistics of Verus

Start at: 2018-07-24 23:12:47
End at: 2018-07-24 23:13:17
Local clock offset: 0.203 ms
Remote clock offset: -0.014 ms

Below is generated by plot.py at 2018-07-25 01:39:43
Datalink statistics
-- Total of 1 flow:
Average throughput: 114.51 Mbit/s
95th percentile per-packet one-way delay: 142.371 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 114.51 Mbit/s
95th percentile per-packet one-way delay: 142.371 ms
Loss rate: 0.03%

Run 8: Report of Verus — Data Link

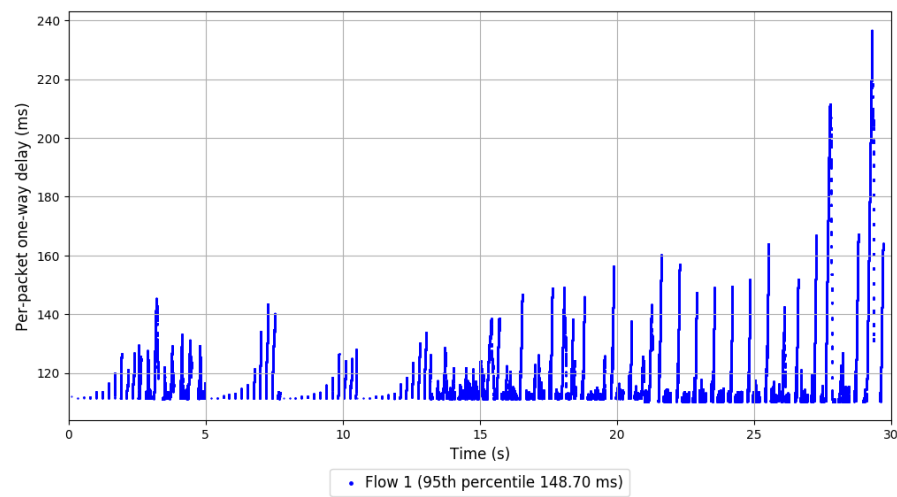
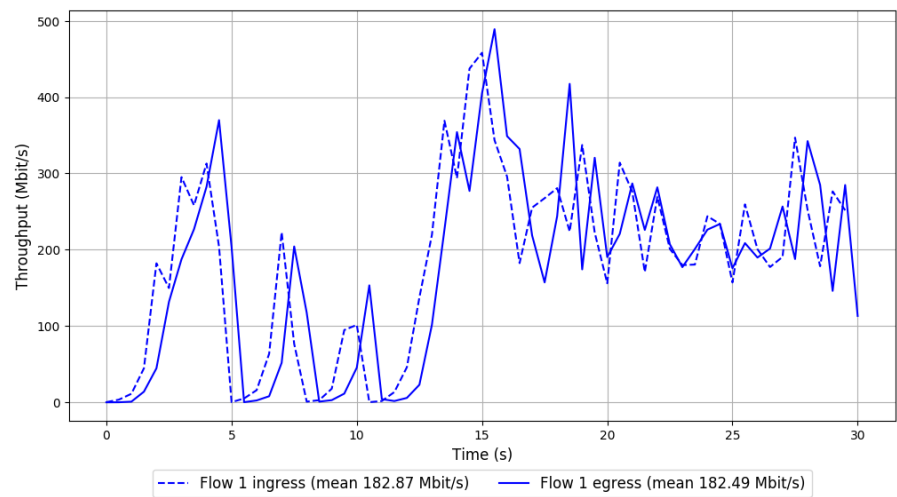


Run 9: Statistics of Verus

Start at: 2018-07-24 23:35:30
End at: 2018-07-24 23:36:00
Local clock offset: 0.021 ms
Remote clock offset: -0.015 ms

Below is generated by plot.py at 2018-07-25 01:41:03
Datalink statistics
-- Total of 1 flow:
Average throughput: 182.49 Mbit/s
95th percentile per-packet one-way delay: 148.700 ms
Loss rate: 1.48%
-- Flow 1:
Average throughput: 182.49 Mbit/s
95th percentile per-packet one-way delay: 148.700 ms
Loss rate: 1.48%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-07-24 23:58:23

End at: 2018-07-24 23:58:53

Local clock offset: -0.014 ms

Remote clock offset: 0.025 ms

Below is generated by plot.py at 2018-07-25 01:41:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 218.23 Mbit/s

95th percentile per-packet one-way delay: 163.522 ms

Loss rate: 0.28%

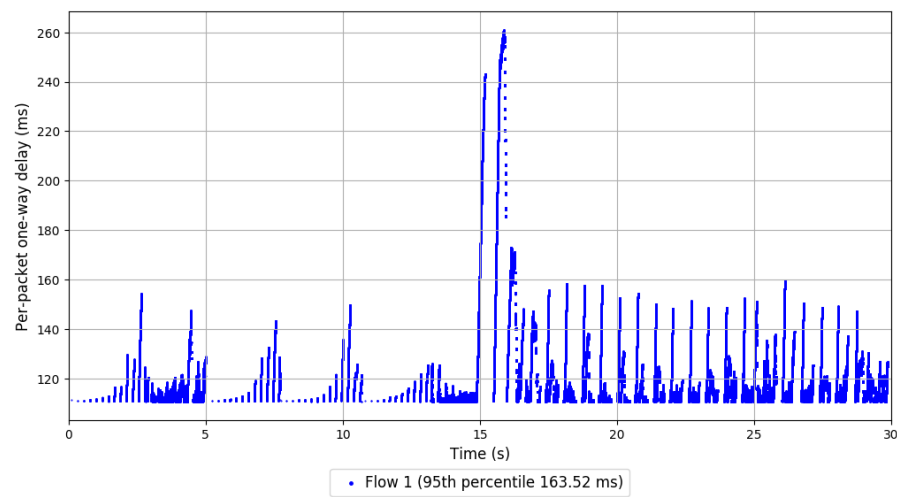
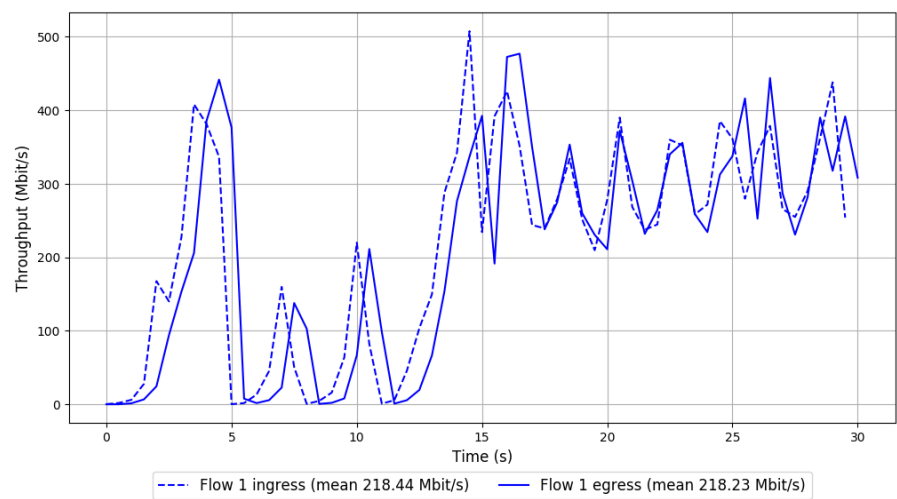
-- Flow 1:

Average throughput: 218.23 Mbit/s

95th percentile per-packet one-way delay: 163.522 ms

Loss rate: 0.28%

Run 10: Report of Verus — Data Link

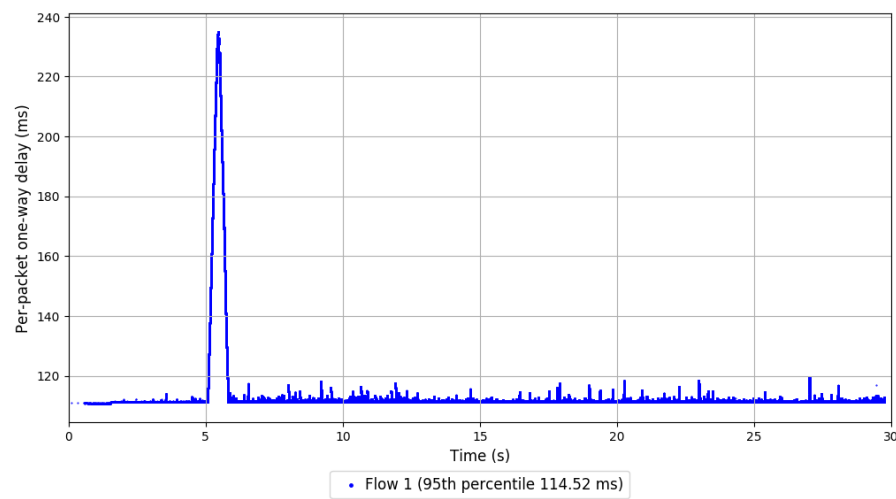
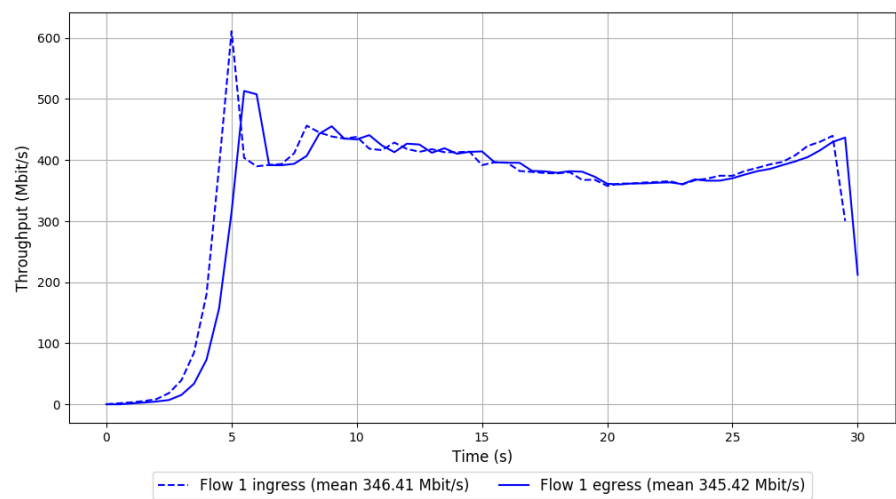


Run 1: Statistics of PCC-Vivace

Start at: 2018-07-24 20:25:49
End at: 2018-07-24 20:26:19
Local clock offset: -0.196 ms
Remote clock offset: -0.013 ms

Below is generated by plot.py at 2018-07-25 01:44:20
Datalink statistics
-- Total of 1 flow:
Average throughput: 345.42 Mbit/s
95th percentile per-packet one-way delay: 114.523 ms
Loss rate: 1.03%
-- Flow 1:
Average throughput: 345.42 Mbit/s
95th percentile per-packet one-way delay: 114.523 ms
Loss rate: 1.03%

Run 1: Report of PCC-Vivace — Data Link

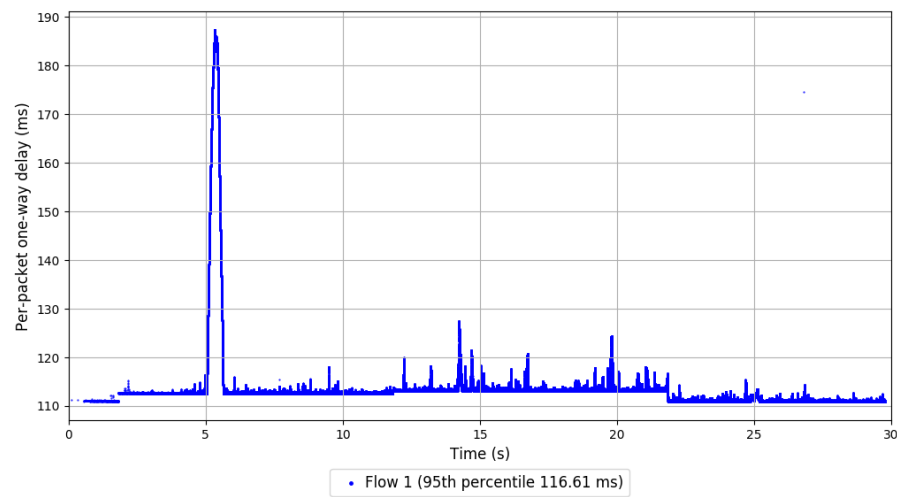
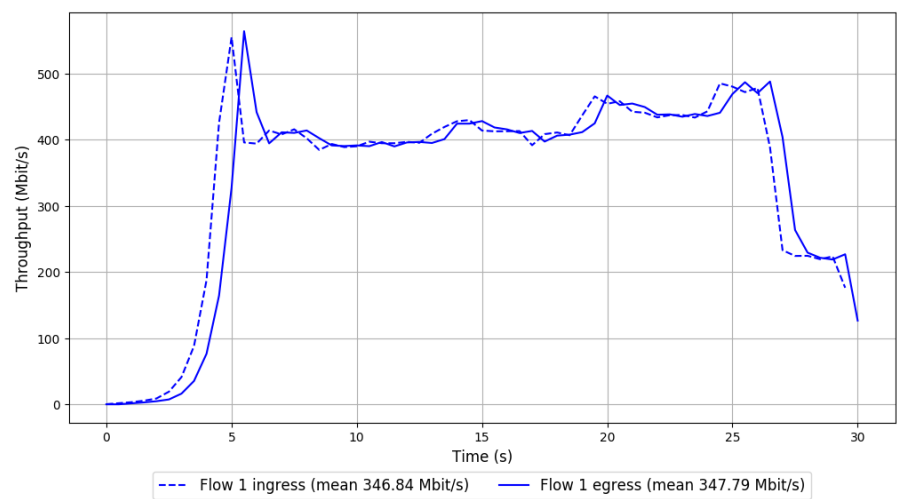


Run 2: Statistics of PCC-Vivace

Start at: 2018-07-24 20:48:19
End at: 2018-07-24 20:48:49
Local clock offset: 1.186 ms
Remote clock offset: -0.379 ms

Below is generated by plot.py at 2018-07-25 01:44:43
Datalink statistics
-- Total of 1 flow:
Average throughput: 347.79 Mbit/s
95th percentile per-packet one-way delay: 116.613 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 347.79 Mbit/s
95th percentile per-packet one-way delay: 116.613 ms
Loss rate: 0.47%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-07-24 21:10:55

End at: 2018-07-24 21:11:25

Local clock offset: -0.178 ms

Remote clock offset: 0.293 ms

Below is generated by plot.py at 2018-07-25 01:45:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 363.35 Mbit/s

95th percentile per-packet one-way delay: 113.803 ms

Loss rate: 0.85%

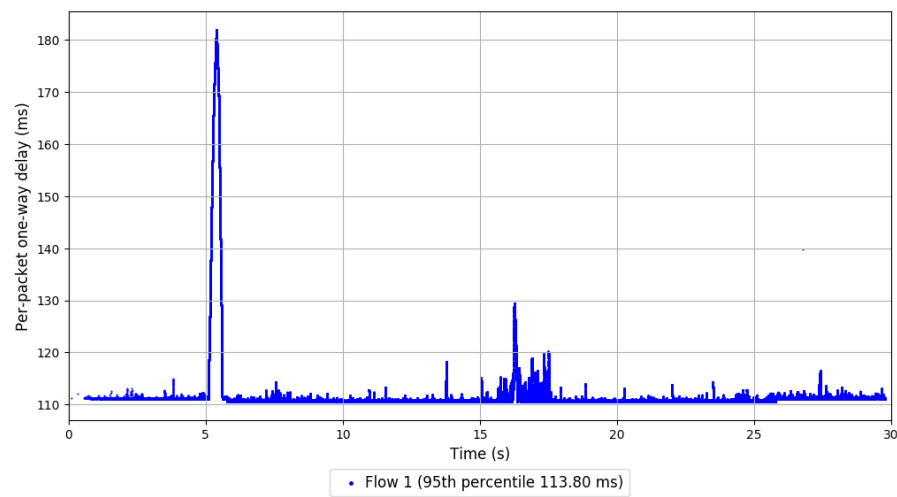
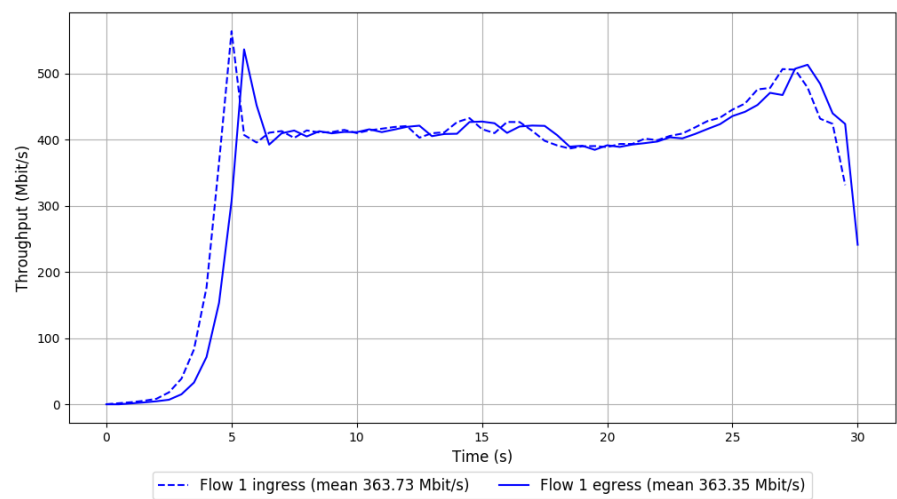
-- Flow 1:

Average throughput: 363.35 Mbit/s

95th percentile per-packet one-way delay: 113.803 ms

Loss rate: 0.85%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2018-07-24 21:33:19

End at: 2018-07-24 21:33:49

Local clock offset: -0.282 ms

Remote clock offset: 0.37 ms

Below is generated by plot.py at 2018-07-25 01:46:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 388.23 Mbit/s

95th percentile per-packet one-way delay: 111.667 ms

Loss rate: 0.91%

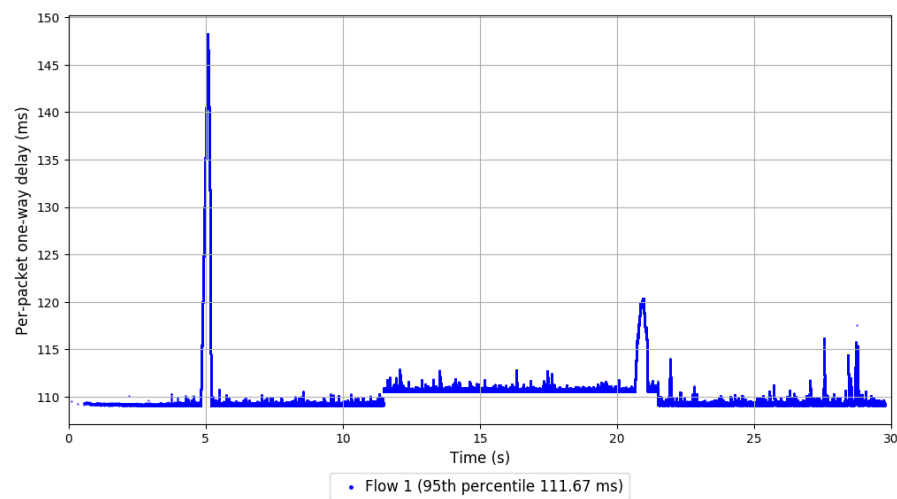
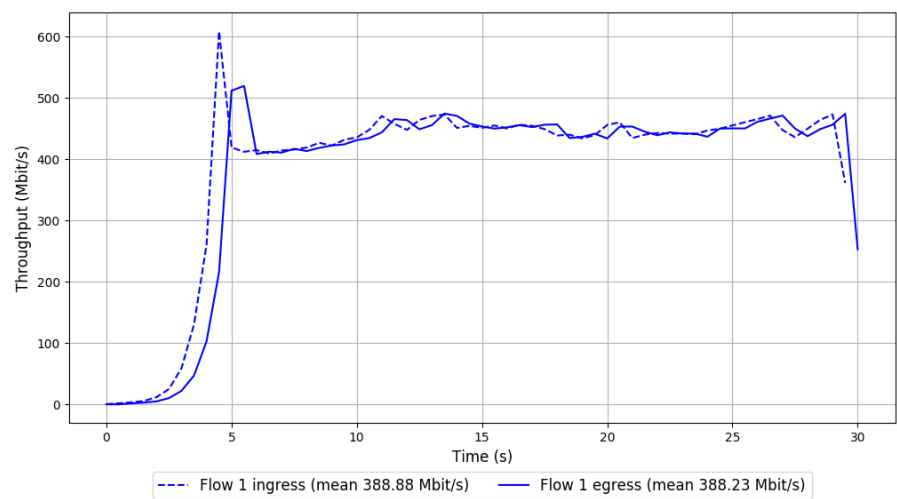
-- Flow 1:

Average throughput: 388.23 Mbit/s

95th percentile per-packet one-way delay: 111.667 ms

Loss rate: 0.91%

Run 4: Report of PCC-Vivace — Data Link

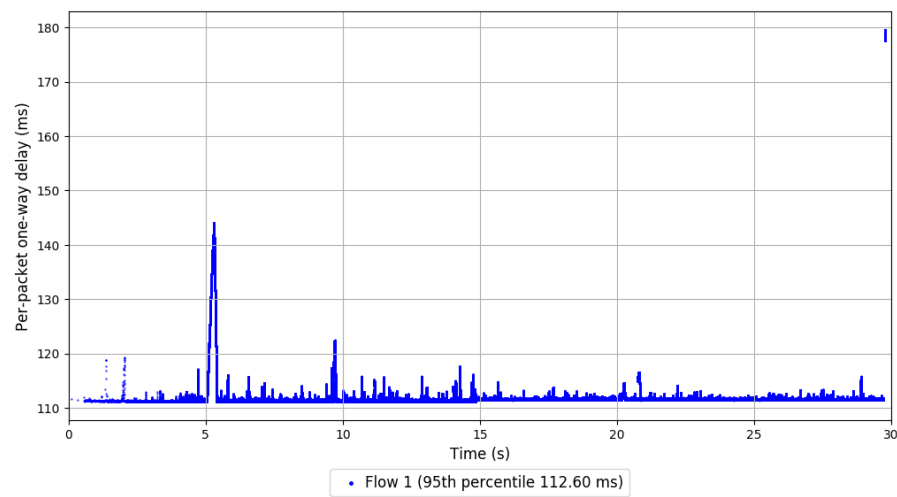
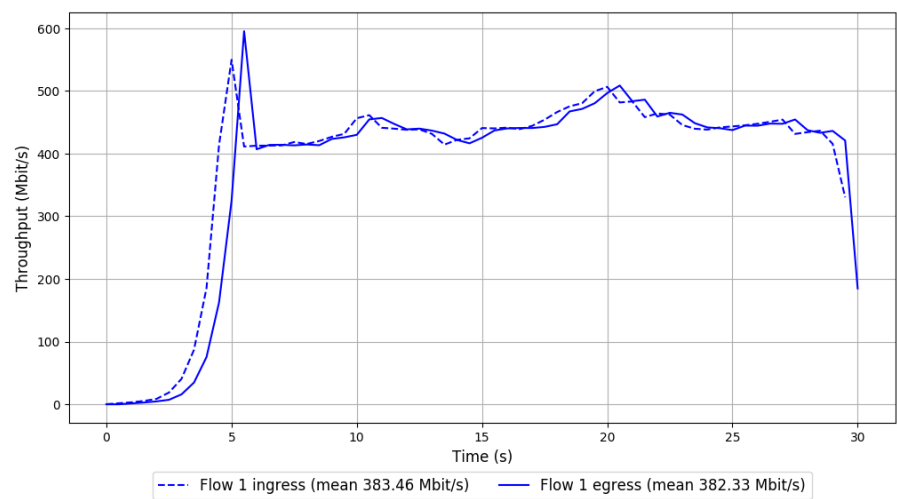


Run 5: Statistics of PCC-Vivace

Start at: 2018-07-24 21:55:46
End at: 2018-07-24 21:56:16
Local clock offset: -0.145 ms
Remote clock offset: -0.374 ms

Below is generated by plot.py at 2018-07-25 01:46:25
Datalink statistics
-- Total of 1 flow:
Average throughput: 382.33 Mbit/s
95th percentile per-packet one-way delay: 112.598 ms
Loss rate: 1.04%
-- Flow 1:
Average throughput: 382.33 Mbit/s
95th percentile per-packet one-way delay: 112.598 ms
Loss rate: 1.04%

Run 5: Report of PCC-Vivace — Data Link



Run 6: Statistics of PCC-Vivace

Start at: 2018-07-24 22:18:26

End at: 2018-07-24 22:18:56

Local clock offset: 1.311 ms

Remote clock offset: -0.328 ms

Below is generated by plot.py at 2018-07-25 01:46:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 330.75 Mbit/s

95th percentile per-packet one-way delay: 113.161 ms

Loss rate: 0.74%

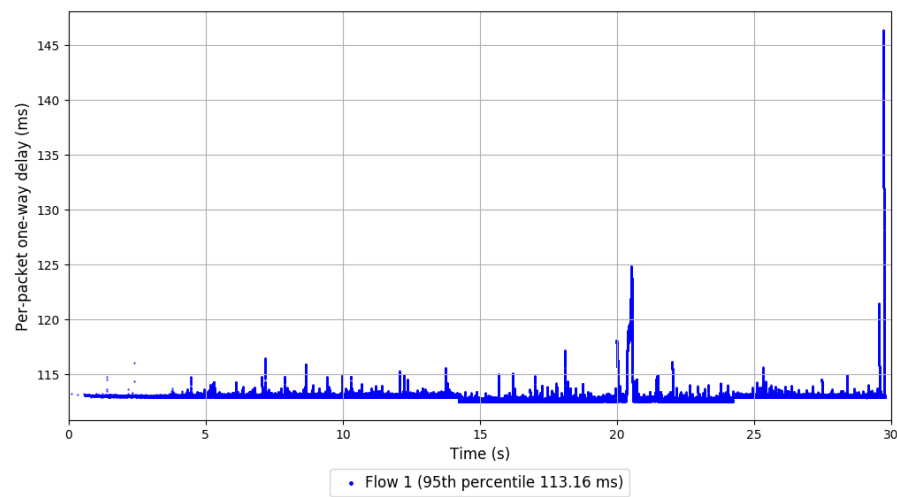
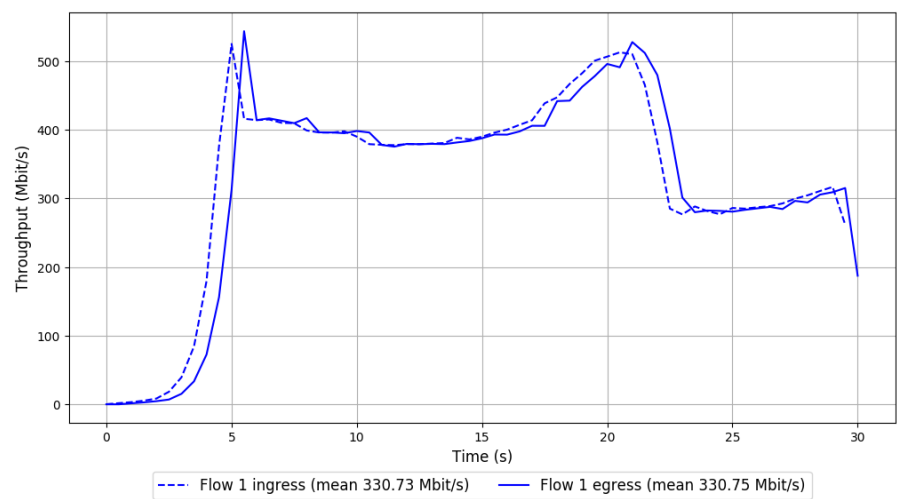
-- Flow 1:

Average throughput: 330.75 Mbit/s

95th percentile per-packet one-way delay: 113.161 ms

Loss rate: 0.74%

Run 6: Report of PCC-Vivace — Data Link

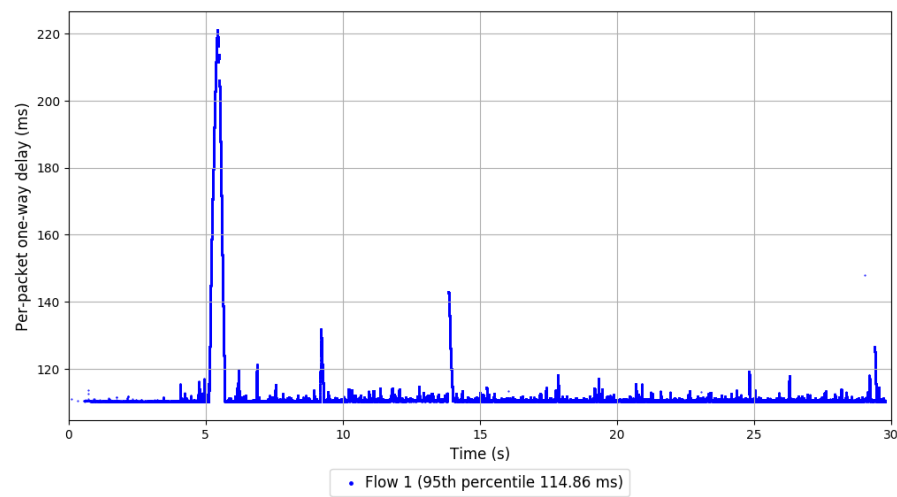
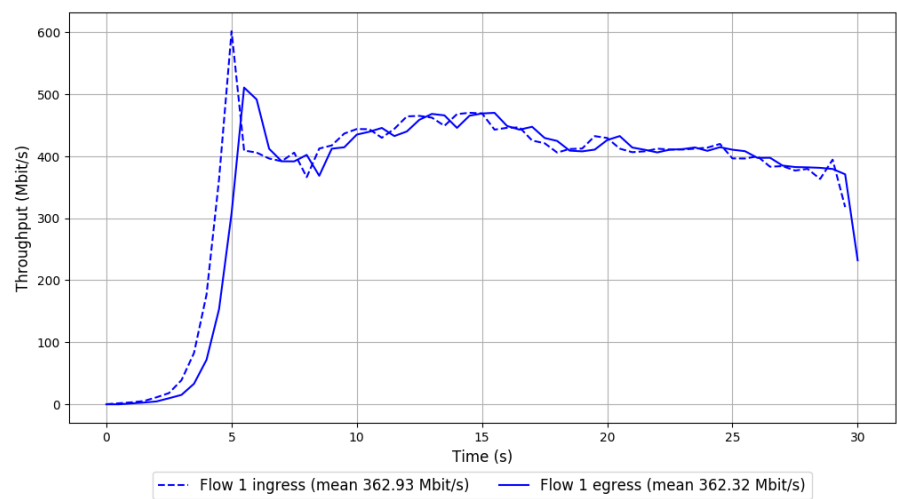


Run 7: Statistics of PCC-Vivace

Start at: 2018-07-24 22:40:50
End at: 2018-07-24 22:41:20
Local clock offset: -1.089 ms
Remote clock offset: -0.353 ms

Below is generated by plot.py at 2018-07-25 01:46:42
Datalink statistics
-- Total of 1 flow:
Average throughput: 362.32 Mbit/s
95th percentile per-packet one-way delay: 114.857 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 362.32 Mbit/s
95th percentile per-packet one-way delay: 114.857 ms
Loss rate: 0.91%

Run 7: Report of PCC-Vivace — Data Link



Run 8: Statistics of PCC-Vivace

Start at: 2018-07-24 23:03:41

End at: 2018-07-24 23:04:11

Local clock offset: -0.27 ms

Remote clock offset: 0.352 ms

Below is generated by plot.py at 2018-07-25 01:46:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 349.19 Mbit/s

95th percentile per-packet one-way delay: 174.161 ms

Loss rate: 1.09%

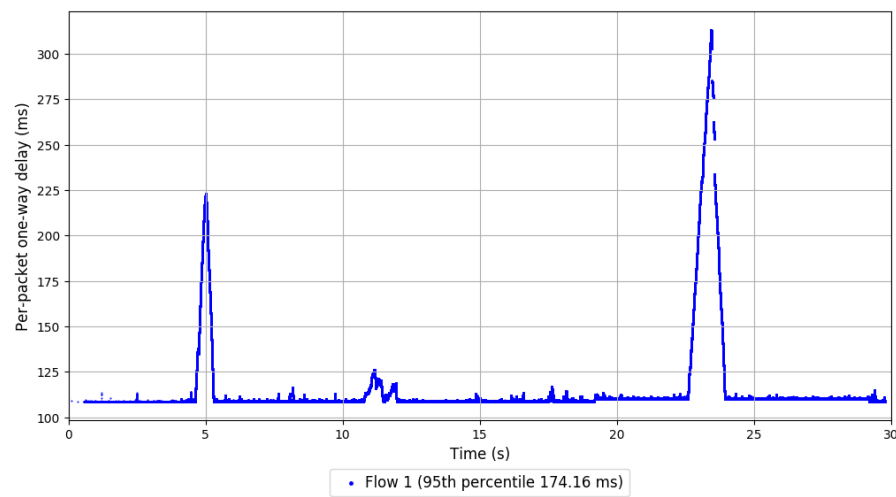
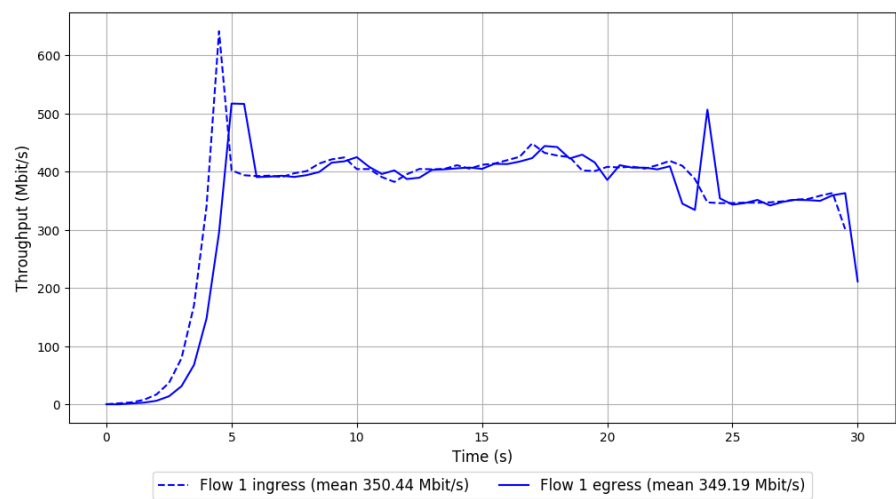
-- Flow 1:

Average throughput: 349.19 Mbit/s

95th percentile per-packet one-way delay: 174.161 ms

Loss rate: 1.09%

Run 8: Report of PCC-Vivace — Data Link



Run 9: Statistics of PCC-Vivace

Start at: 2018-07-24 23:26:32

End at: 2018-07-24 23:27:02

Local clock offset: 1.19 ms

Remote clock offset: -0.018 ms

Below is generated by plot.py at 2018-07-25 01:47:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 370.07 Mbit/s

95th percentile per-packet one-way delay: 113.464 ms

Loss rate: 0.85%

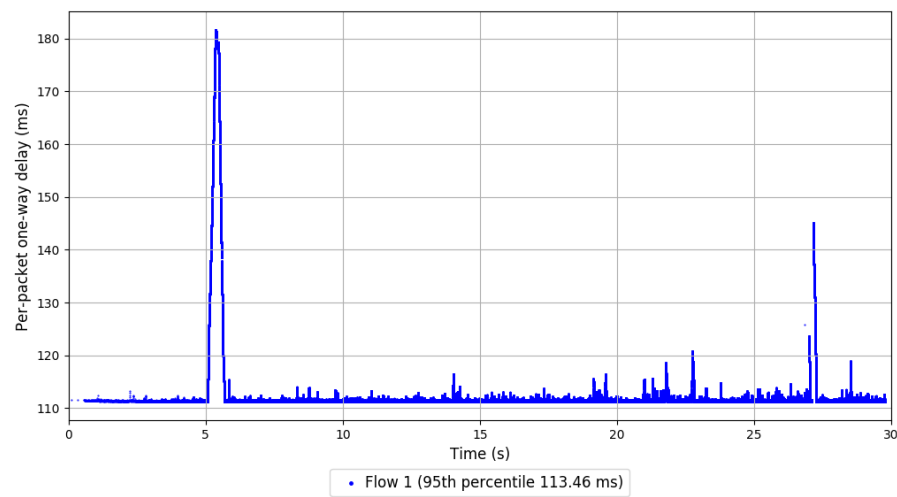
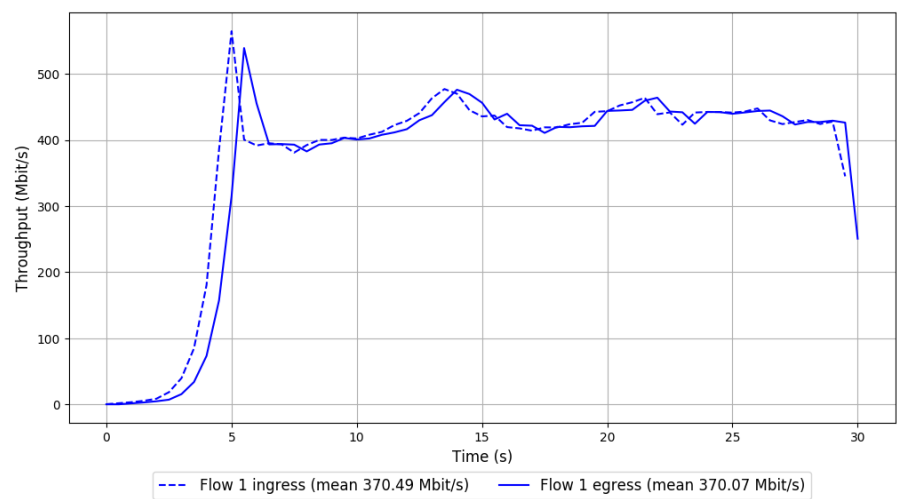
-- Flow 1:

Average throughput: 370.07 Mbit/s

95th percentile per-packet one-way delay: 113.464 ms

Loss rate: 0.85%

Run 9: Report of PCC-Vivace — Data Link



Run 10: Statistics of PCC-Vivace

Start at: 2018-07-24 23:49:15

End at: 2018-07-24 23:49:45

Local clock offset: -1.17 ms

Remote clock offset: 0.338 ms

Below is generated by plot.py at 2018-07-25 01:47:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 363.31 Mbit/s

95th percentile per-packet one-way delay: 229.993 ms

Loss rate: 4.37%

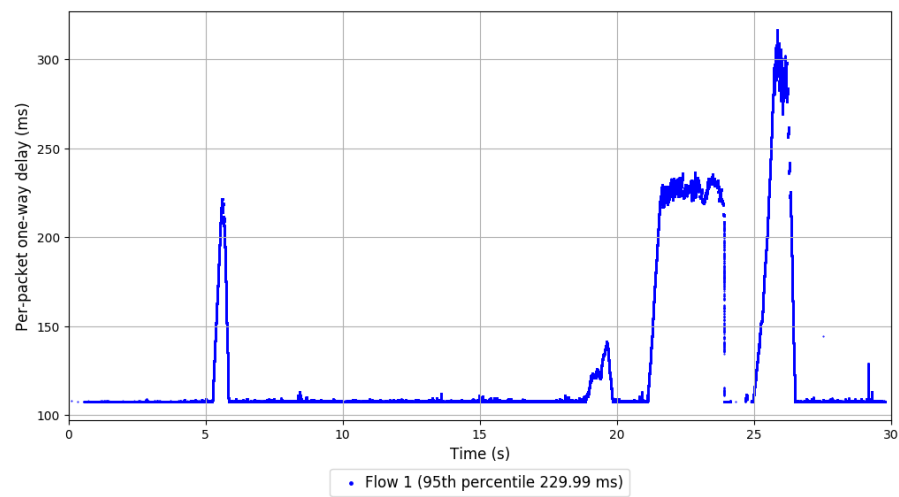
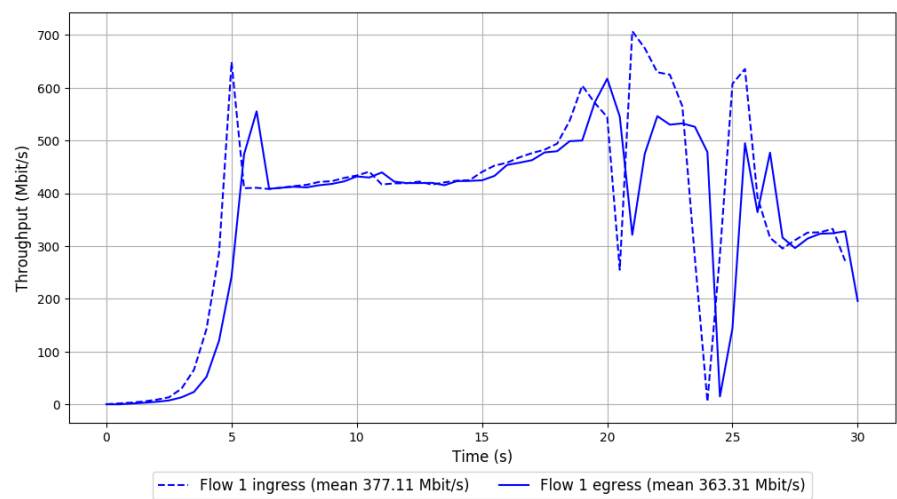
-- Flow 1:

Average throughput: 363.31 Mbit/s

95th percentile per-packet one-way delay: 229.993 ms

Loss rate: 4.37%

Run 10: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

Start at: 2018-07-24 20:31:16

End at: 2018-07-24 20:31:46

Local clock offset: -0.248 ms

Remote clock offset: 0.346 ms

Below is generated by plot.py at 2018-07-25 01:47:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.61 Mbit/s

95th percentile per-packet one-way delay: 111.451 ms

Loss rate: 1.04%

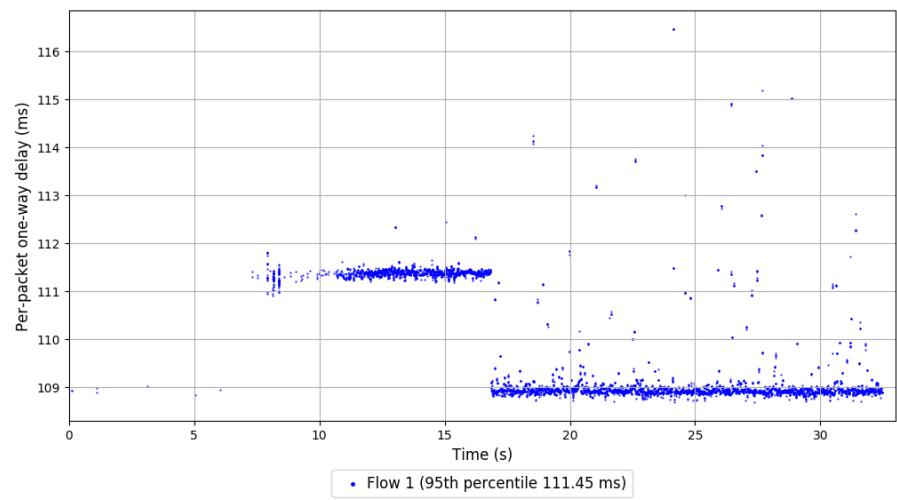
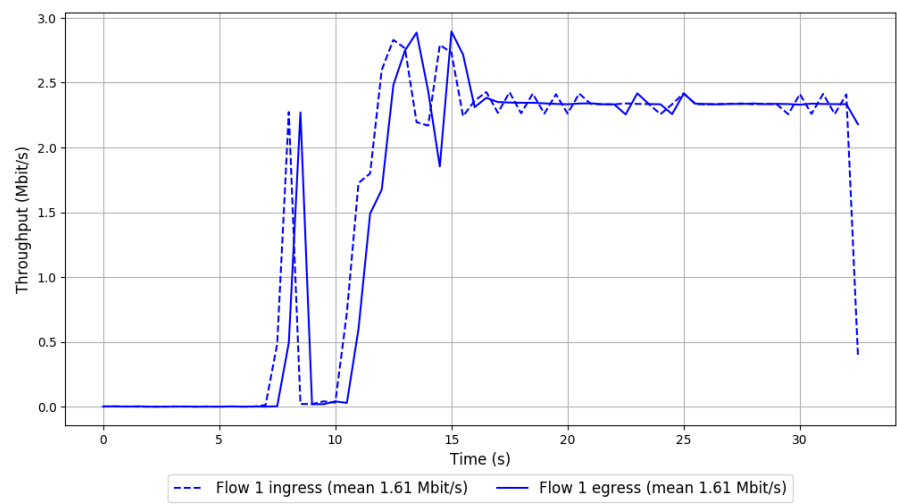
-- Flow 1:

Average throughput: 1.61 Mbit/s

95th percentile per-packet one-way delay: 111.451 ms

Loss rate: 1.04%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-07-24 20:53:48

End at: 2018-07-24 20:54:18

Local clock offset: -0.141 ms

Remote clock offset: 0.043 ms

Below is generated by plot.py at 2018-07-25 01:47:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.87 Mbit/s

95th percentile per-packet one-way delay: 111.530 ms

Loss rate: 0.81%

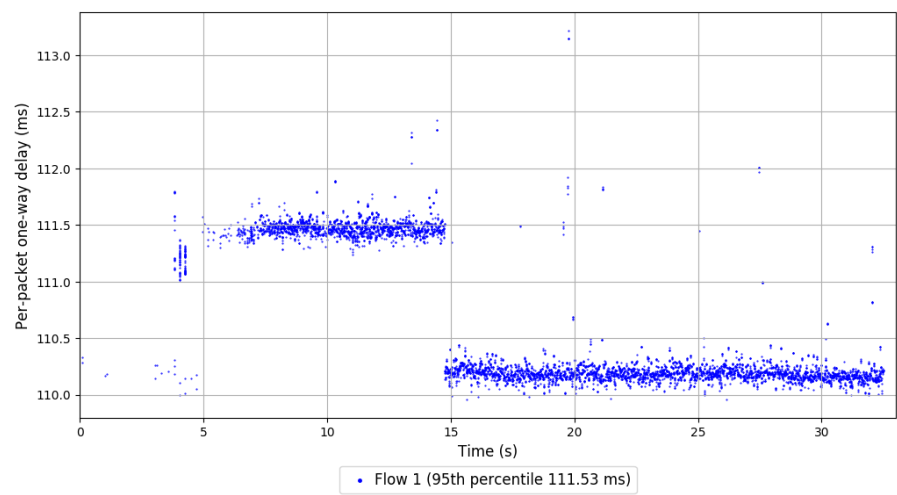
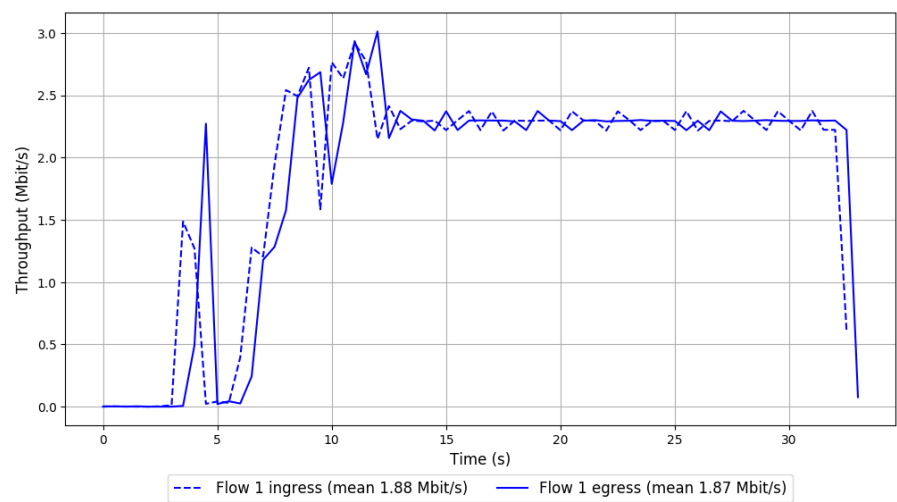
-- Flow 1:

Average throughput: 1.87 Mbit/s

95th percentile per-packet one-way delay: 111.530 ms

Loss rate: 0.81%

Run 2: Report of WebRTC media — Data Link

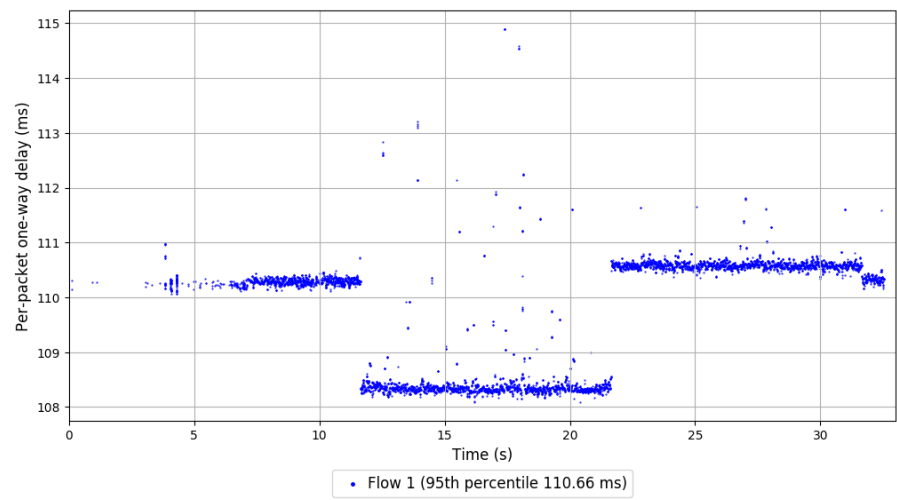
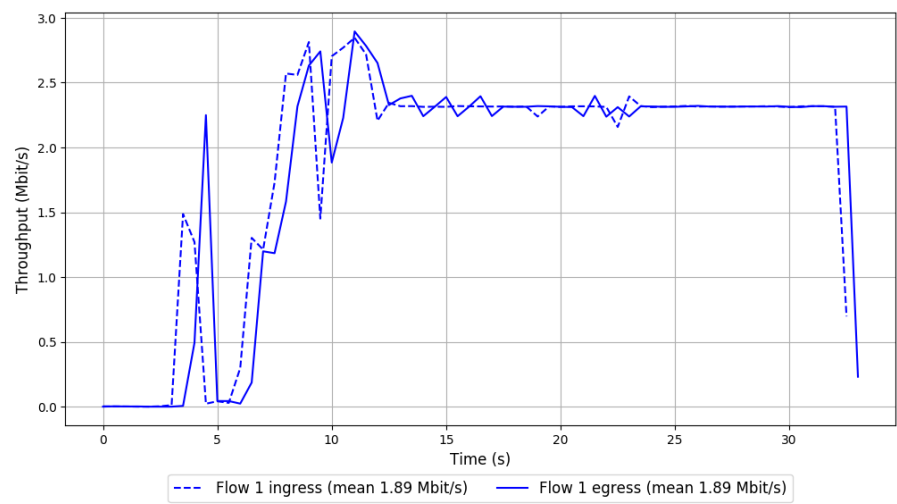


Run 3: Statistics of WebRTC media

Start at: 2018-07-24 21:16:21
End at: 2018-07-24 21:16:52
Local clock offset: -1.378 ms
Remote clock offset: -0.078 ms

Below is generated by plot.py at 2018-07-25 01:47:27
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.89 Mbit/s
95th percentile per-packet one-way delay: 110.658 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 1.89 Mbit/s
95th percentile per-packet one-way delay: 110.658 ms
Loss rate: 0.82%

Run 3: Report of WebRTC media — Data Link

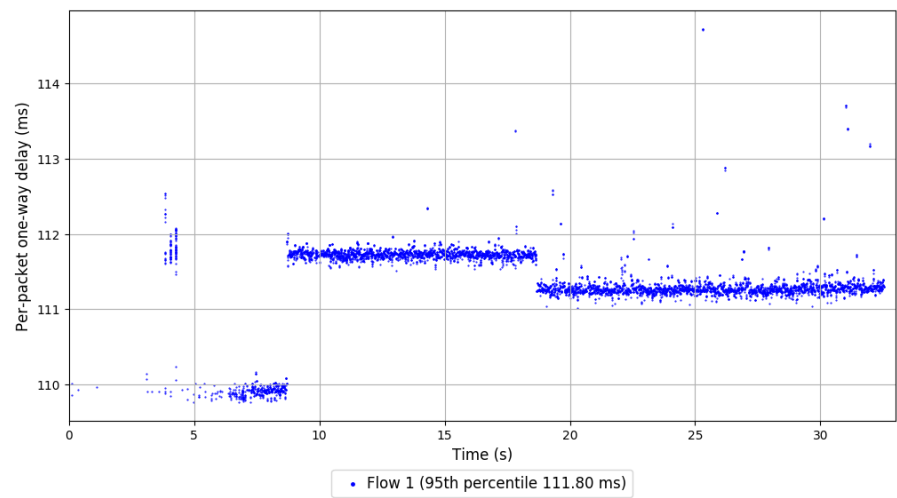
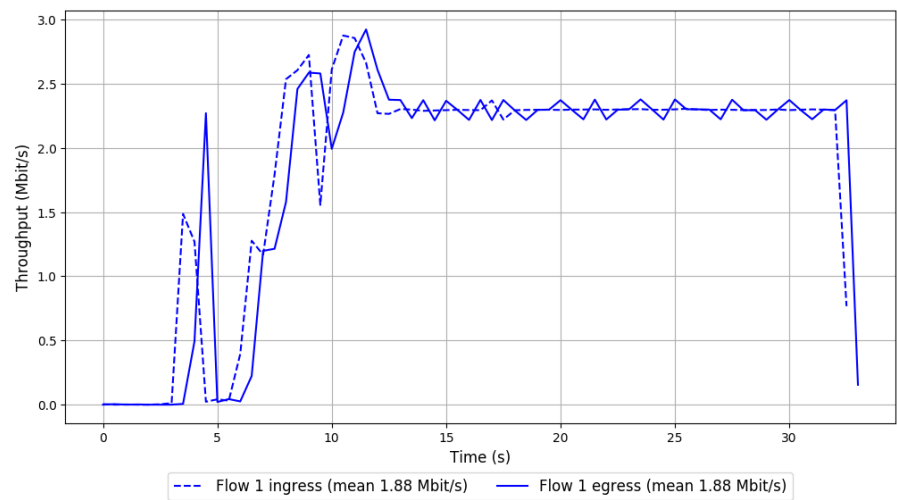


Run 4: Statistics of WebRTC media

Start at: 2018-07-24 21:38:44
End at: 2018-07-24 21:39:14
Local clock offset: -0.129 ms
Remote clock offset: -0.071 ms

Below is generated by plot.py at 2018-07-25 01:47:27
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.88 Mbit/s
95th percentile per-packet one-way delay: 111.803 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 1.88 Mbit/s
95th percentile per-packet one-way delay: 111.803 ms
Loss rate: 0.87%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-07-24 22:01:18

End at: 2018-07-24 22:01:48

Local clock offset: -0.139 ms

Remote clock offset: 0.01 ms

Below is generated by plot.py at 2018-07-25 01:47:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.88 Mbit/s

95th percentile per-packet one-way delay: 110.564 ms

Loss rate: 0.81%

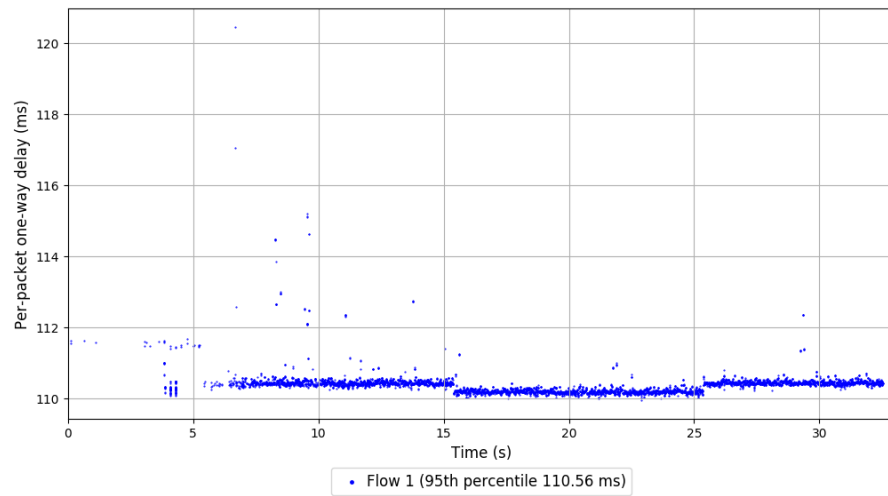
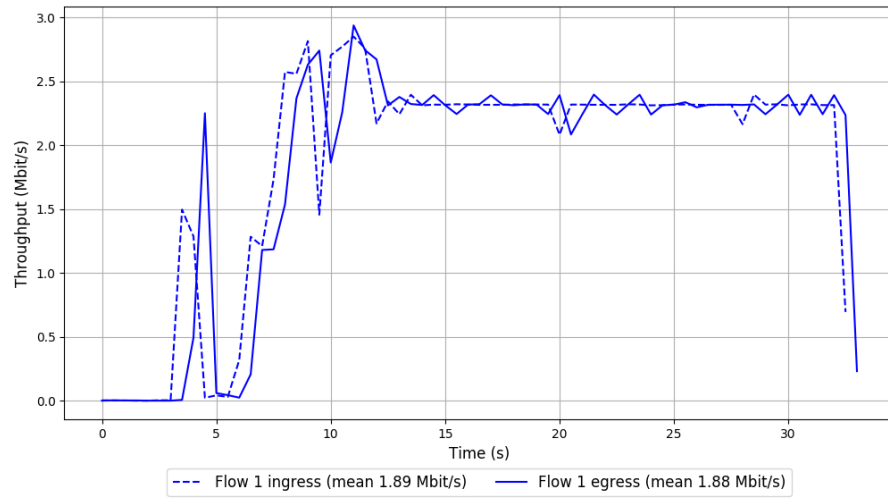
-- Flow 1:

Average throughput: 1.88 Mbit/s

95th percentile per-packet one-way delay: 110.564 ms

Loss rate: 0.81%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-07-24 22:23:49

End at: 2018-07-24 22:24:19

Local clock offset: 0.193 ms

Remote clock offset: 0.006 ms

Below is generated by plot.py at 2018-07-25 01:47:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.88 Mbit/s

95th percentile per-packet one-way delay: 111.433 ms

Loss rate: 0.87%

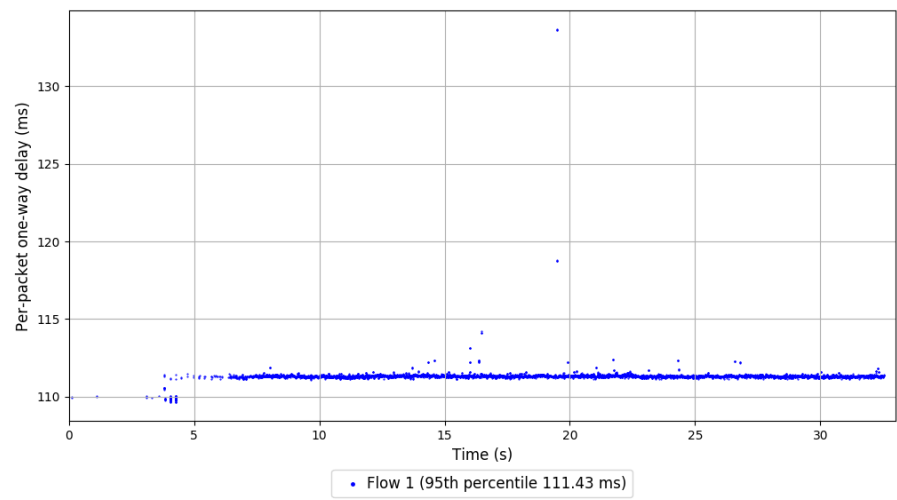
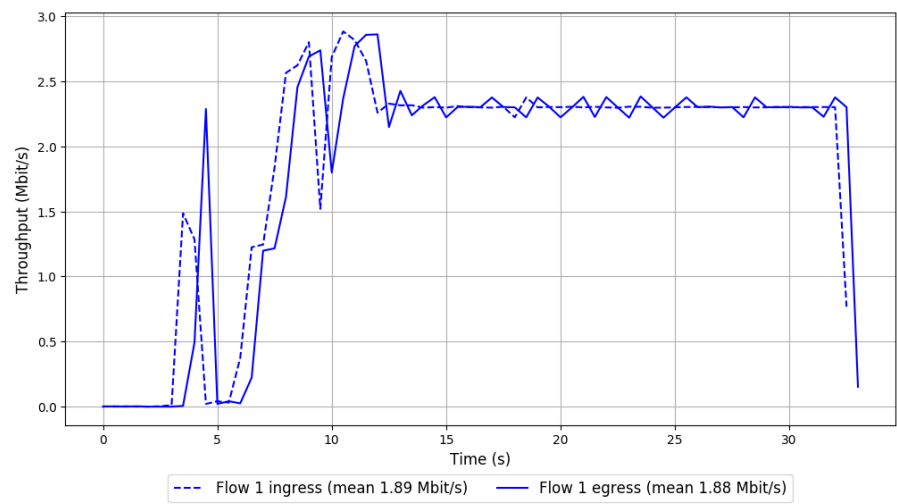
-- Flow 1:

Average throughput: 1.88 Mbit/s

95th percentile per-packet one-way delay: 111.433 ms

Loss rate: 0.87%

Run 6: Report of WebRTC media — Data Link

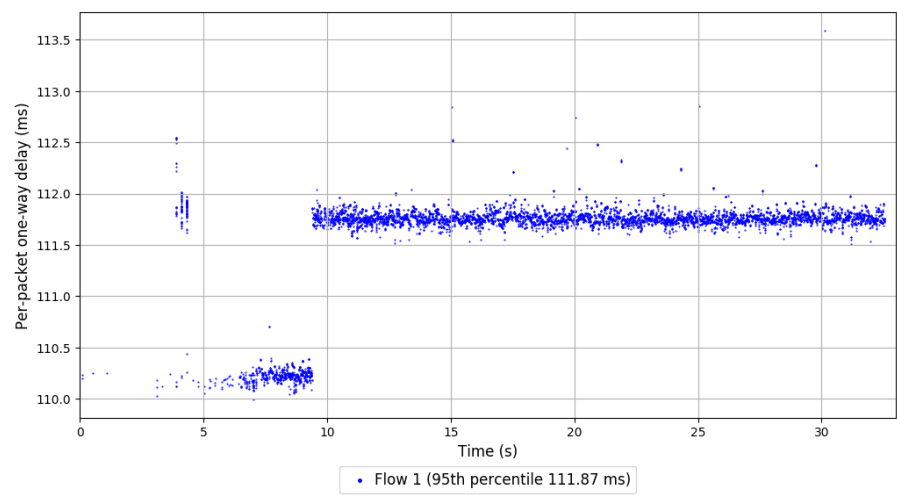
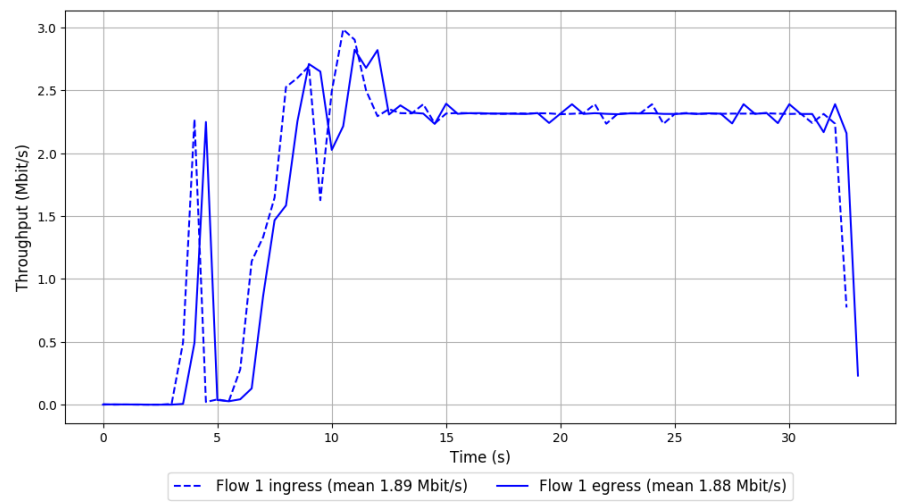


Run 7: Statistics of WebRTC media

Start at: 2018-07-24 22:46:14
End at: 2018-07-24 22:46:44
Local clock offset: 0.123 ms
Remote clock offset: -0.354 ms

Below is generated by plot.py at 2018-07-25 01:47:28
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.88 Mbit/s
95th percentile per-packet one-way delay: 111.871 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 1.88 Mbit/s
95th percentile per-packet one-way delay: 111.871 ms
Loss rate: 0.88%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-07-24 23:09:13

End at: 2018-07-24 23:09:43

Local clock offset: -1.194 ms

Remote clock offset: 0.341 ms

Below is generated by plot.py at 2018-07-25 01:47:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.86 Mbit/s

95th percentile per-packet one-way delay: 109.957 ms

Loss rate: 0.75%

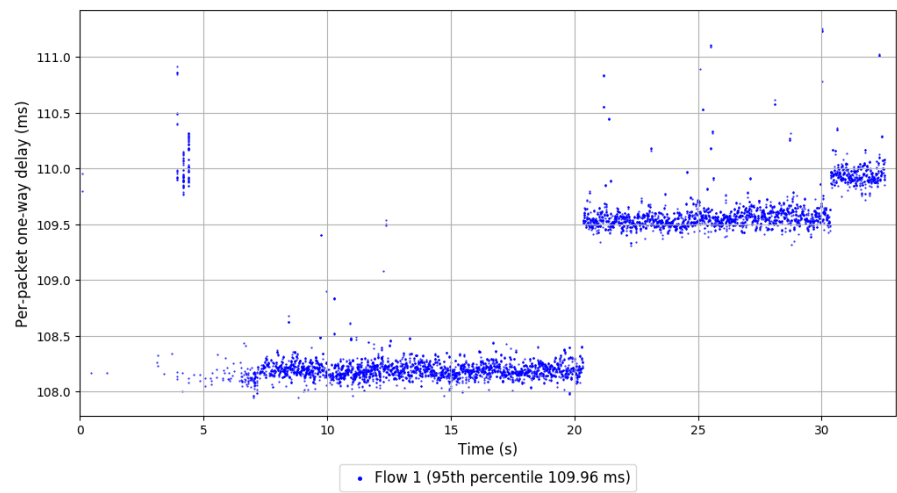
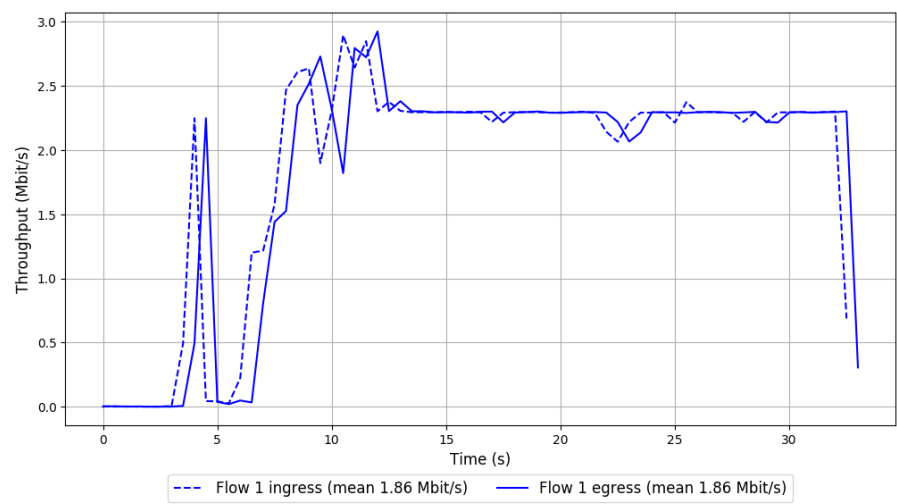
-- Flow 1:

Average throughput: 1.86 Mbit/s

95th percentile per-packet one-way delay: 109.957 ms

Loss rate: 0.75%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-07-24 23:31:56

End at: 2018-07-24 23:32:26

Local clock offset: -0.143 ms

Remote clock offset: 0.006 ms

Below is generated by plot.py at 2018-07-25 01:47:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.91 Mbit/s

95th percentile per-packet one-way delay: 111.516 ms

Loss rate: 0.87%

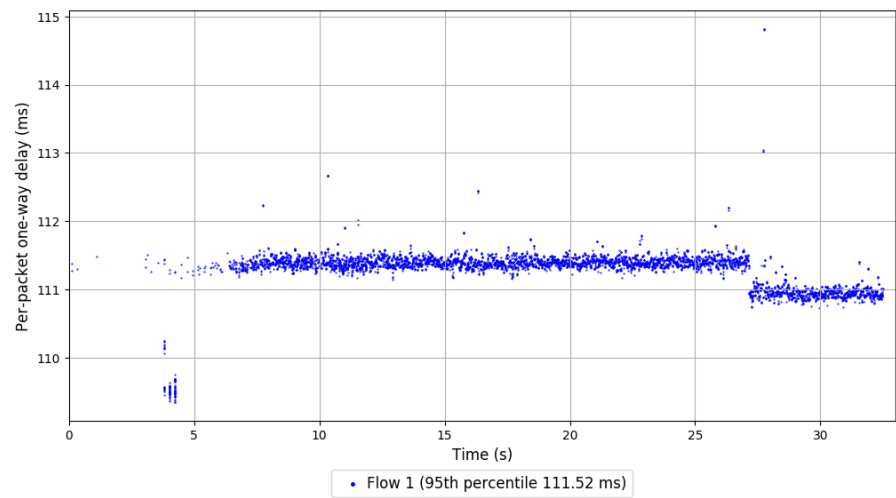
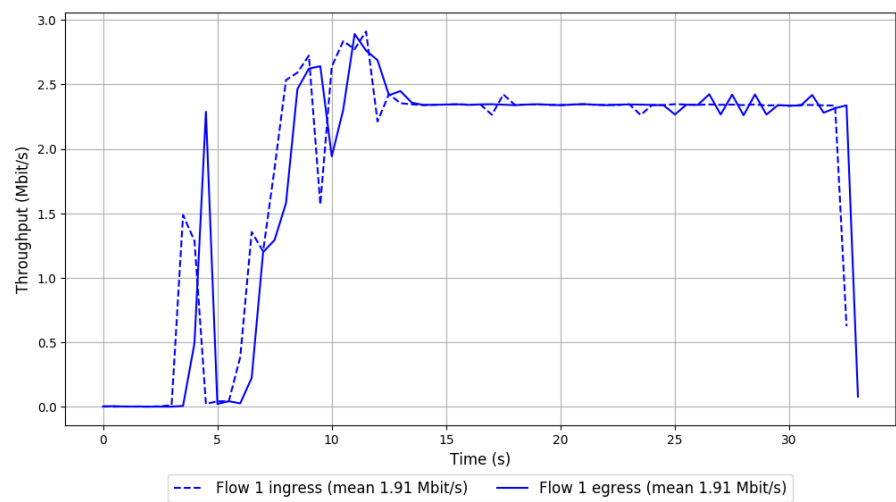
-- Flow 1:

Average throughput: 1.91 Mbit/s

95th percentile per-packet one-way delay: 111.516 ms

Loss rate: 0.87%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-07-24 23:54:51

End at: 2018-07-24 23:55:21

Local clock offset: 0.041 ms

Remote clock offset: 0.063 ms

Below is generated by plot.py at 2018-07-25 01:47:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.88 Mbit/s

95th percentile per-packet one-way delay: 110.677 ms

Loss rate: 0.86%

-- Flow 1:

Average throughput: 1.88 Mbit/s

95th percentile per-packet one-way delay: 110.677 ms

Loss rate: 0.86%

Run 10: Report of WebRTC media — Data Link

