

Pantheon Report

Generated at 2018-06-30 03:38:10 (UTC).

Data path: GCE Iowa Ethernet (*remote*) → GCE Sydney Ethernet (*local*).

Repeated the test of 17 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

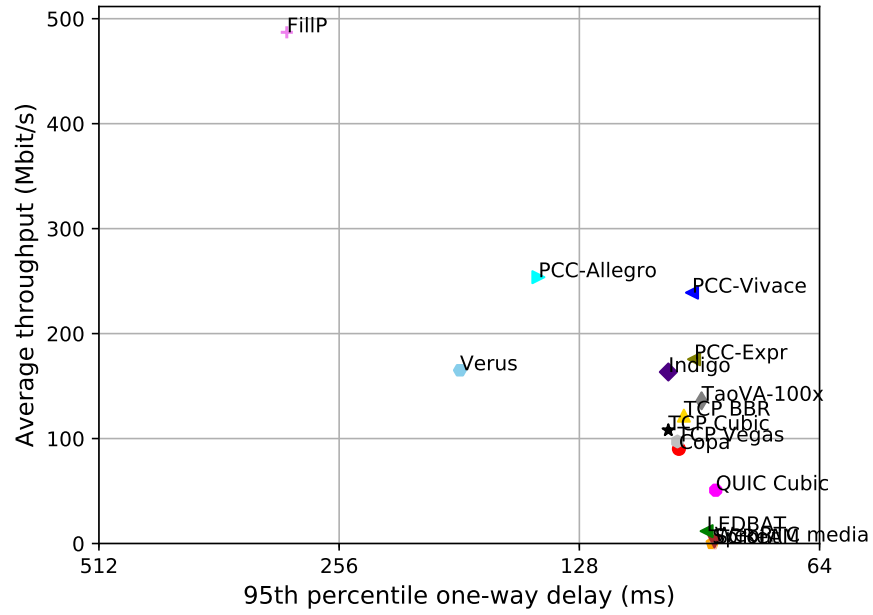
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

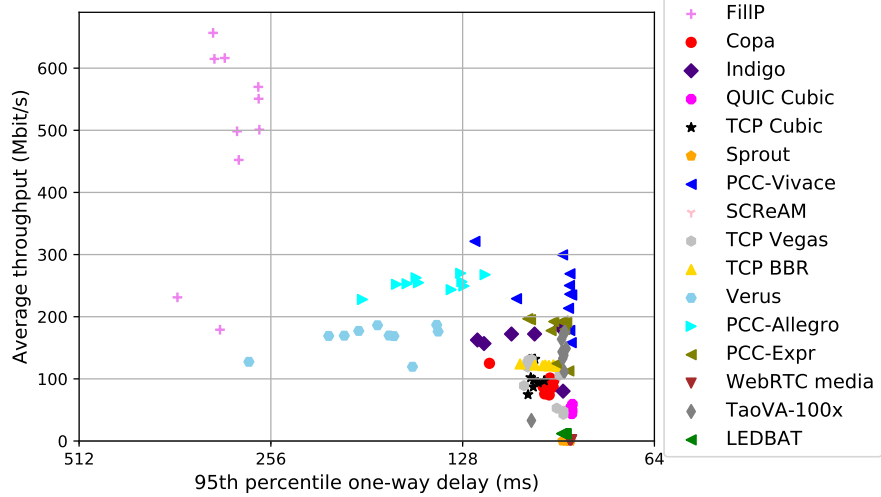
Git summary:

```
branch: master @ 715dc5f09d172e419699f6f17f1cb4c45064f212
third_party/fillp @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/fillp-sheep @ 30060ab034deb3424347f5cc3db86198eac35d2a
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf5e58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ 6f038ed31259d366f9840f65b82cbe8f464b1b39
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-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 Iowa to GCE Sydney, 10 runs of 30s each per scheme
(mean of all runs by scheme)



test from GCE Iowa to GCE Sydney, 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	121.83	94.67	0.61
Copa	10	90.14	96.04	0.60
TCP Cubic	10	107.91	99.02	0.67
FillP	10	487.04	297.74	2.74
FillP-Sheep	0	N/A	N/A	N/A
Indigo	9	163.41	99.02	0.60
LEDBAT	10	11.80	88.66	1.16
PCC-Allegro	10	253.74	144.06	1.05
PCC-Expr	10	175.54	91.94	0.69
QUIC Cubic	9	50.79	86.36	0.83
SCReAM	10	0.22	86.51	0.58
Sprout	10	0.28	87.21	0.55
TaoVA-100x	10	135.97	89.96	0.76
TCP Vegas	10	97.23	96.45	0.47
Verus	10	165.06	180.67	1.04
PCC-Vivace	10	239.00	92.48	0.75
WebRTC media	9	1.91	86.69	0.61

Run 1: Statistics of TCP BBR

Start at: 2018-06-29 23:22:14

End at: 2018-06-29 23:22:44

Local clock offset: 0.356 ms

Remote clock offset: -0.023 ms

Below is generated by plot.py at 2018-06-30 02:41:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 122.46 Mbit/s

95th percentile per-packet one-way delay: 92.161 ms

Loss rate: 0.60%

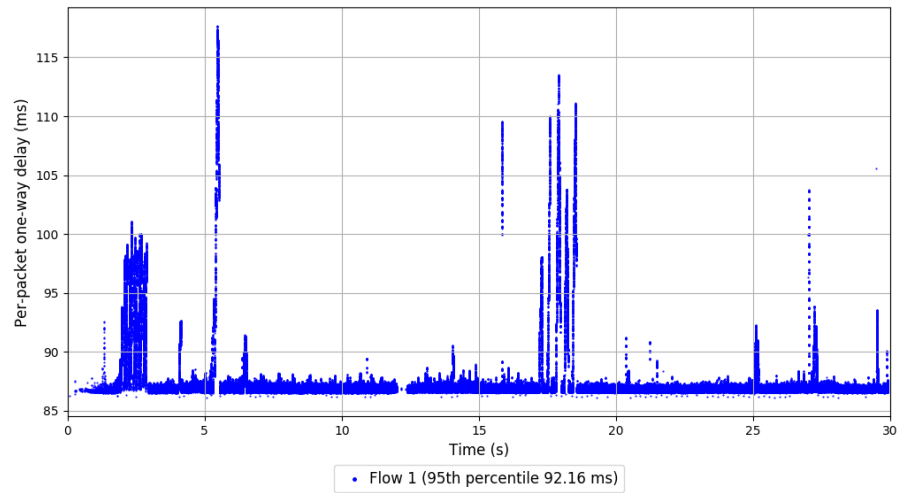
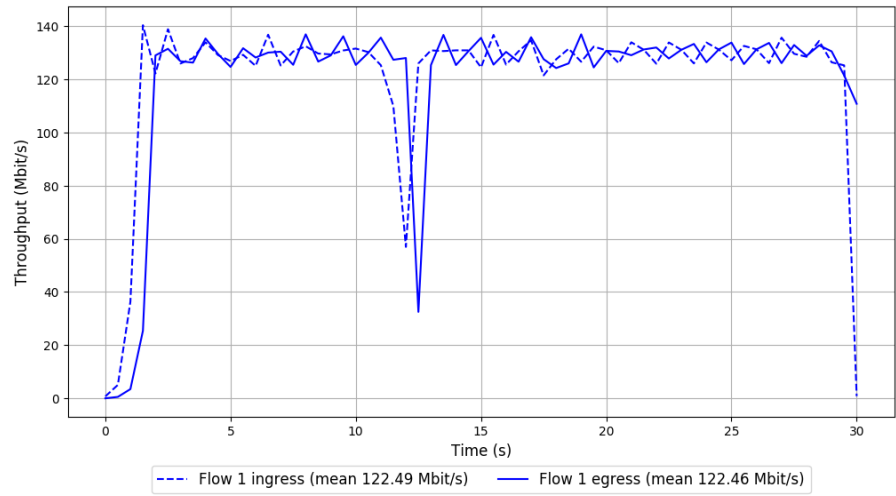
-- Flow 1:

Average throughput: 122.46 Mbit/s

95th percentile per-packet one-way delay: 92.161 ms

Loss rate: 0.60%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-06-29 23:43:20

End at: 2018-06-29 23:43:50

Local clock offset: 0.222 ms

Remote clock offset: -0.042 ms

Below is generated by plot.py at 2018-06-30 02:41:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 122.14 Mbit/s

95th percentile per-packet one-way delay: 92.263 ms

Loss rate: 0.61%

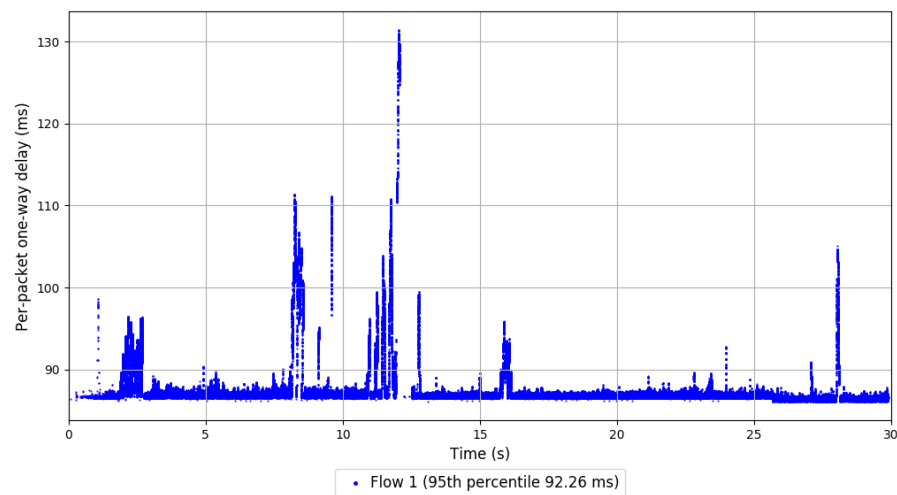
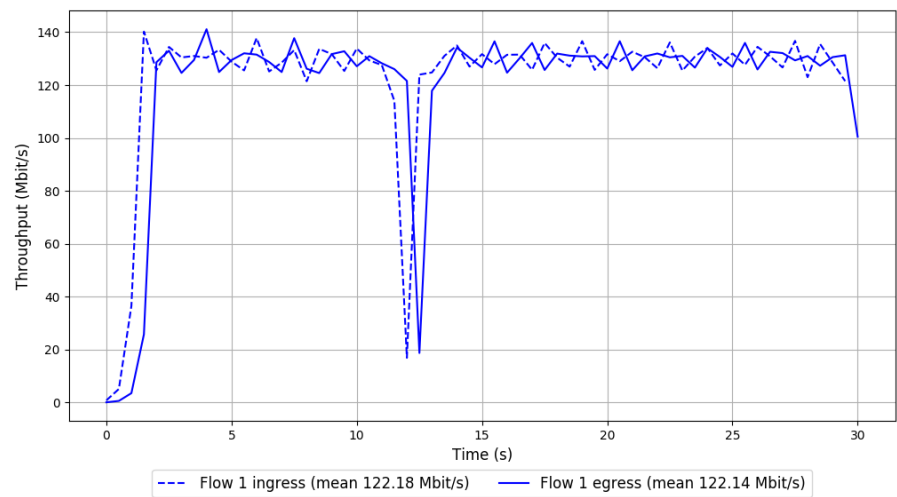
-- Flow 1:

Average throughput: 122.14 Mbit/s

95th percentile per-packet one-way delay: 92.263 ms

Loss rate: 0.61%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-06-30 00:04:18

End at: 2018-06-30 00:04:48

Local clock offset: 0.183 ms

Remote clock offset: 0.059 ms

Below is generated by plot.py at 2018-06-30 02:41:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 121.11 Mbit/s

95th percentile per-packet one-way delay: 93.641 ms

Loss rate: 0.61%

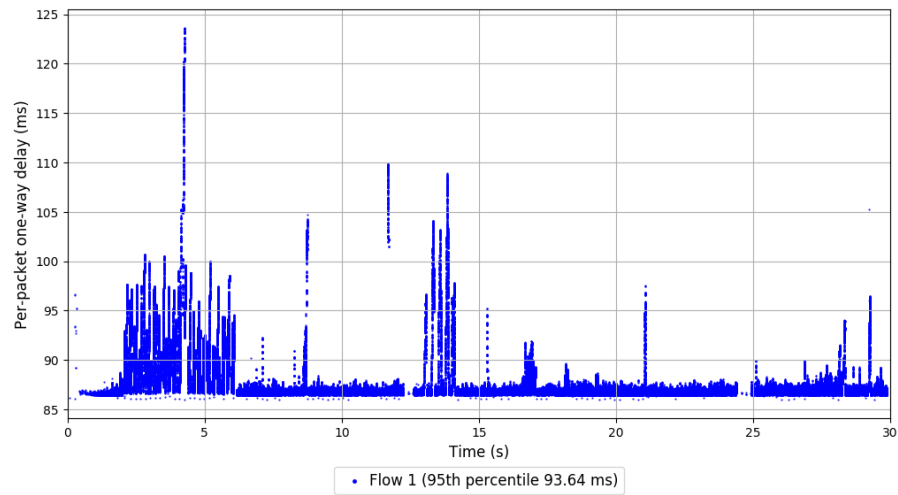
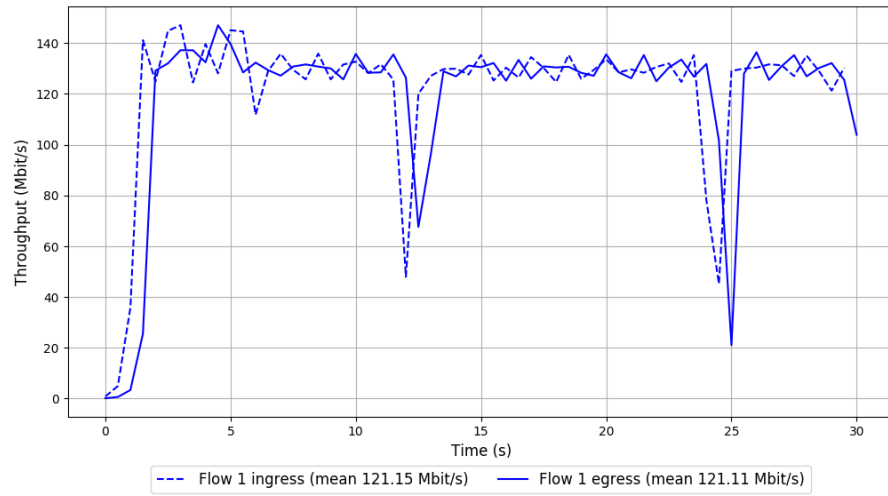
-- Flow 1:

Average throughput: 121.11 Mbit/s

95th percentile per-packet one-way delay: 93.641 ms

Loss rate: 0.61%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-06-30 00:25:32

End at: 2018-06-30 00:26:02

Local clock offset: 0.13 ms

Remote clock offset: 0.163 ms

Below is generated by plot.py at 2018-06-30 02:41:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 123.98 Mbit/s

95th percentile per-packet one-way delay: 104.022 ms

Loss rate: 0.60%

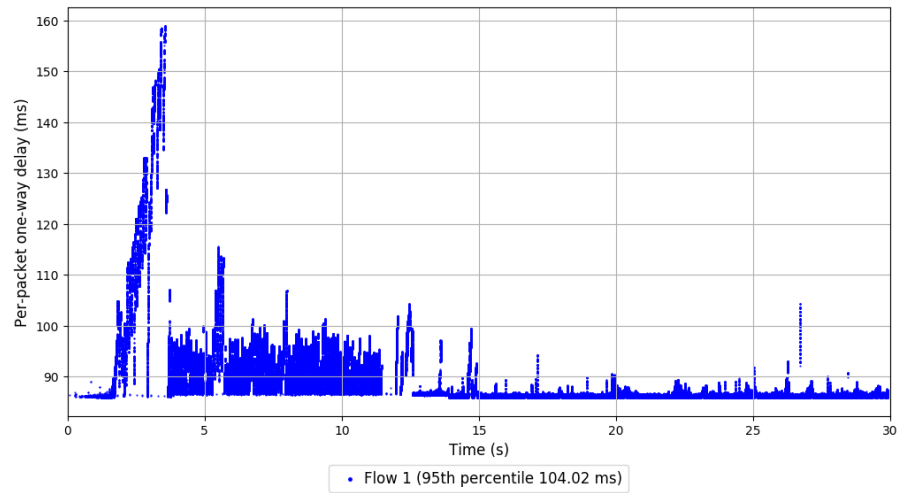
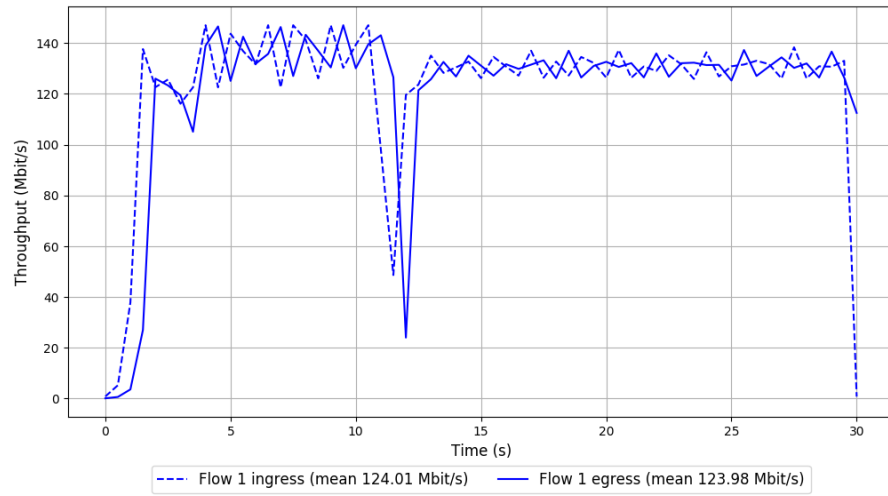
-- Flow 1:

Average throughput: 123.98 Mbit/s

95th percentile per-packet one-way delay: 104.022 ms

Loss rate: 0.60%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-06-30 00:46:35

End at: 2018-06-30 00:47:05

Local clock offset: 0.123 ms

Remote clock offset: 0.216 ms

Below is generated by plot.py at 2018-06-30 02:41:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 122.22 Mbit/s

95th percentile per-packet one-way delay: 94.920 ms

Loss rate: 0.60%

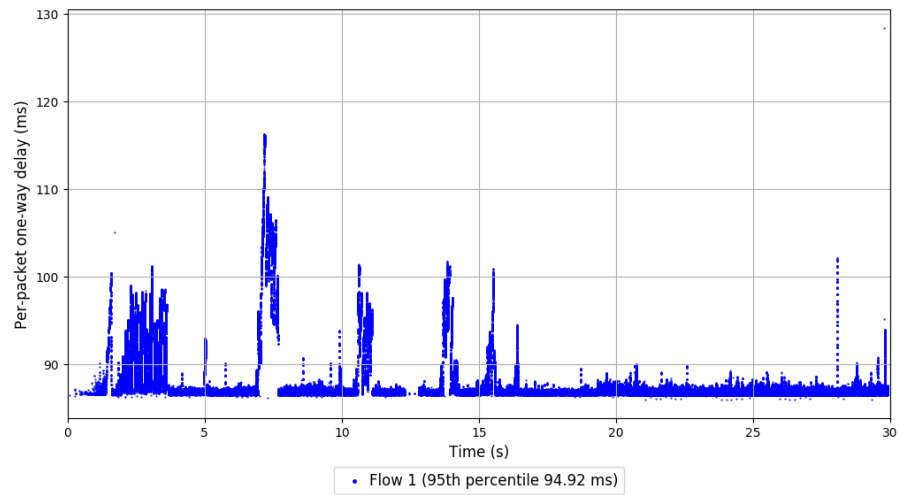
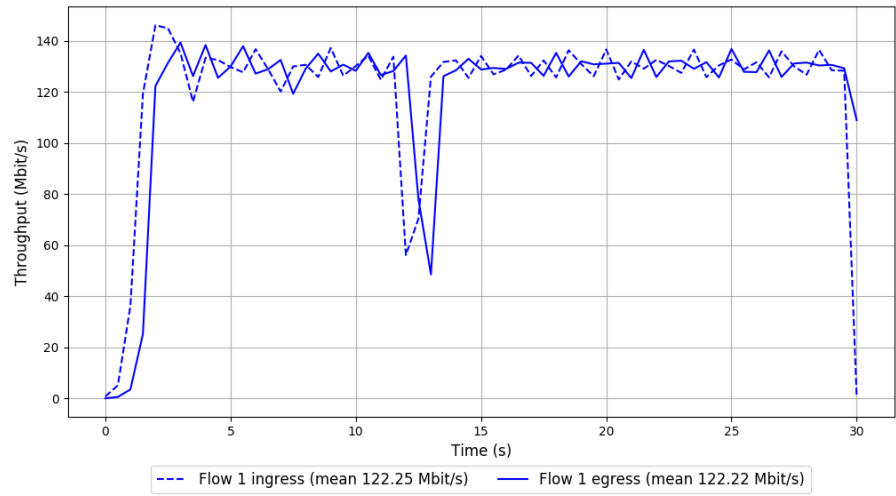
-- Flow 1:

Average throughput: 122.22 Mbit/s

95th percentile per-packet one-way delay: 94.920 ms

Loss rate: 0.60%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-06-30 01:07:37

End at: 2018-06-30 01:08:07

Local clock offset: 0.188 ms

Remote clock offset: 0.329 ms

Below is generated by plot.py at 2018-06-30 02:41:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 120.28 Mbit/s

95th percentile per-packet one-way delay: 90.834 ms

Loss rate: 0.64%

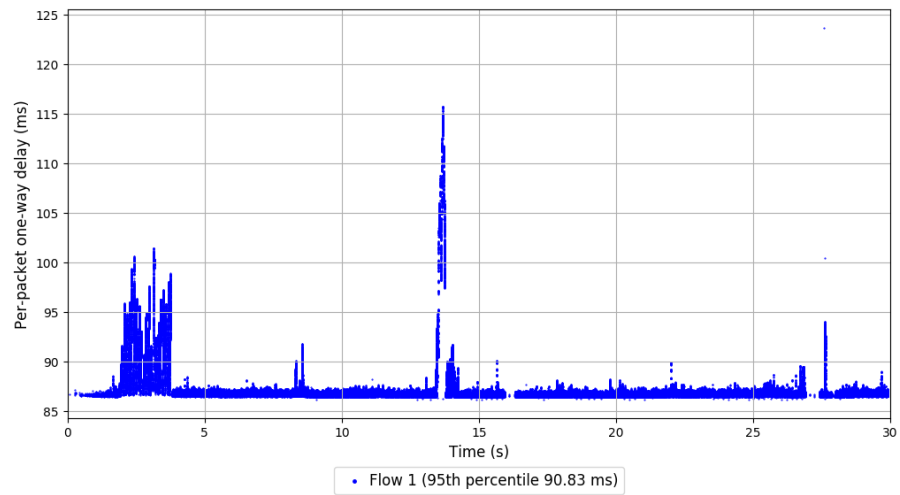
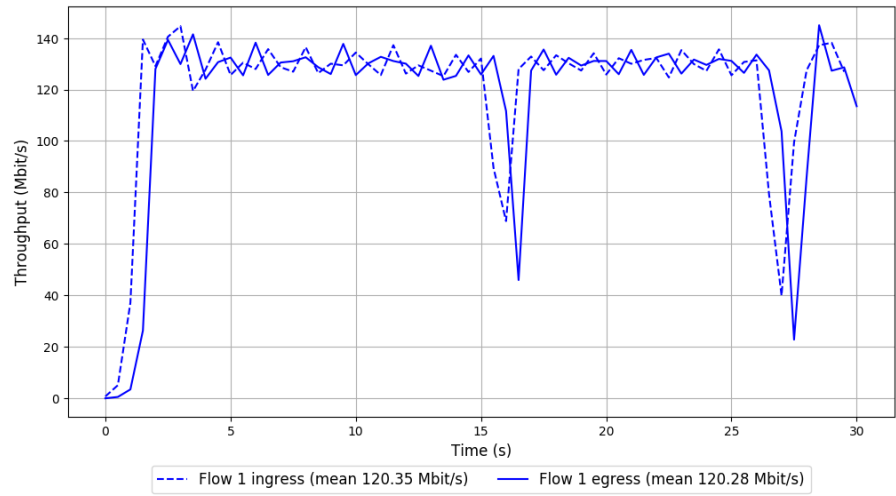
-- Flow 1:

Average throughput: 120.28 Mbit/s

95th percentile per-packet one-way delay: 90.834 ms

Loss rate: 0.64%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-06-30 01:28:42

End at: 2018-06-30 01:29:12

Local clock offset: 0.314 ms

Remote clock offset: 0.115 ms

Below is generated by plot.py at 2018-06-30 02:41:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 121.38 Mbit/s

95th percentile per-packet one-way delay: 95.838 ms

Loss rate: 0.61%

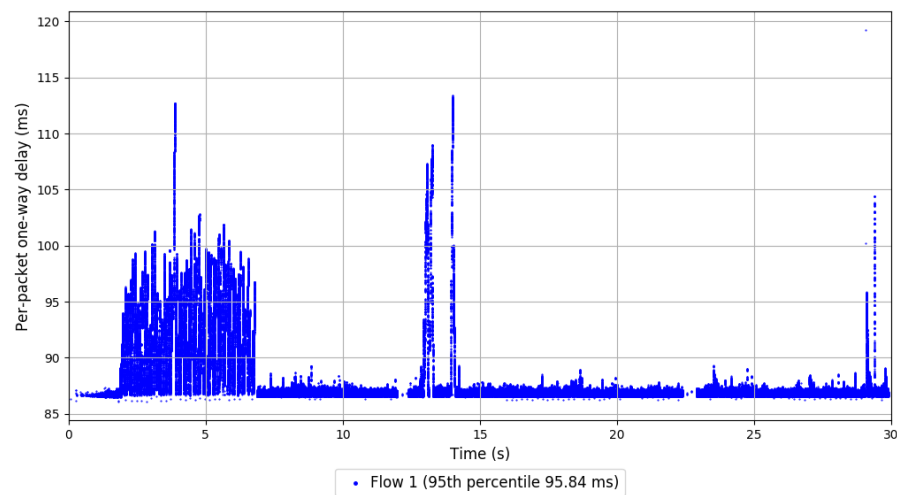
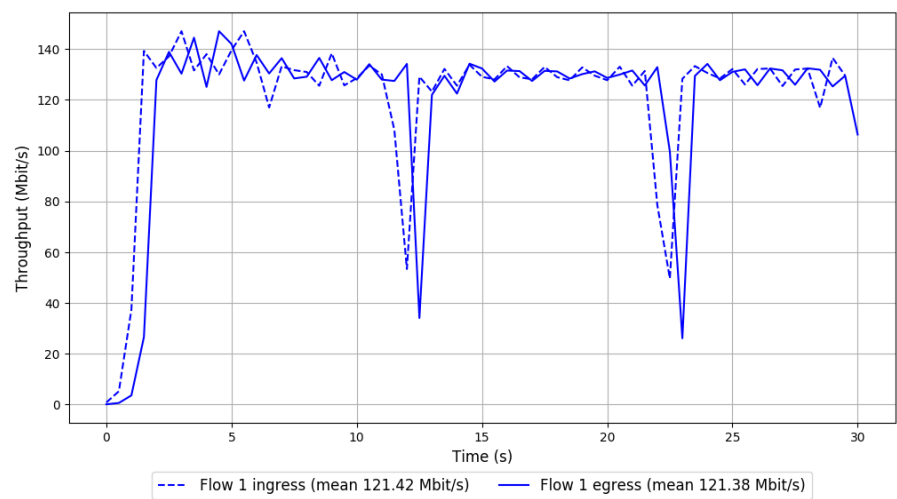
-- Flow 1:

Average throughput: 121.38 Mbit/s

95th percentile per-packet one-way delay: 95.838 ms

Loss rate: 0.61%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-06-30 01:49:56

End at: 2018-06-30 01:50:26

Local clock offset: 0.191 ms

Remote clock offset: -0.002 ms

Below is generated by plot.py at 2018-06-30 02:41:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 122.22 Mbit/s

95th percentile per-packet one-way delay: 98.573 ms

Loss rate: 0.61%

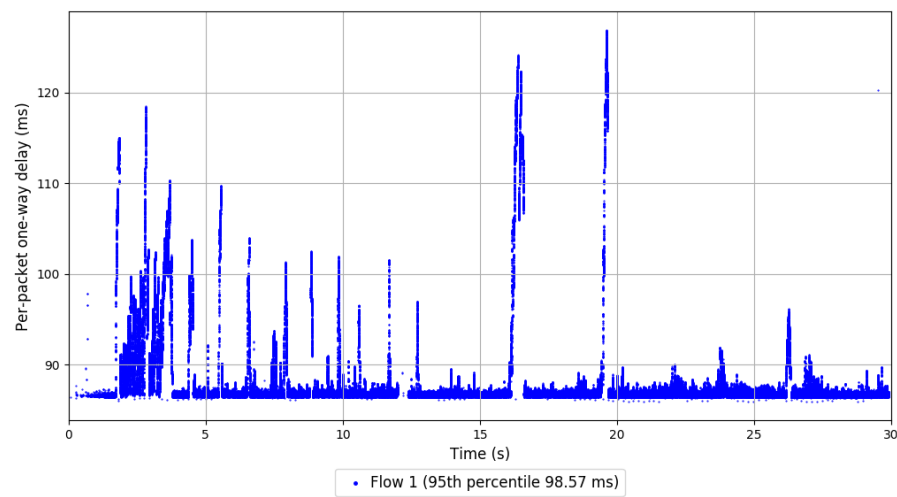
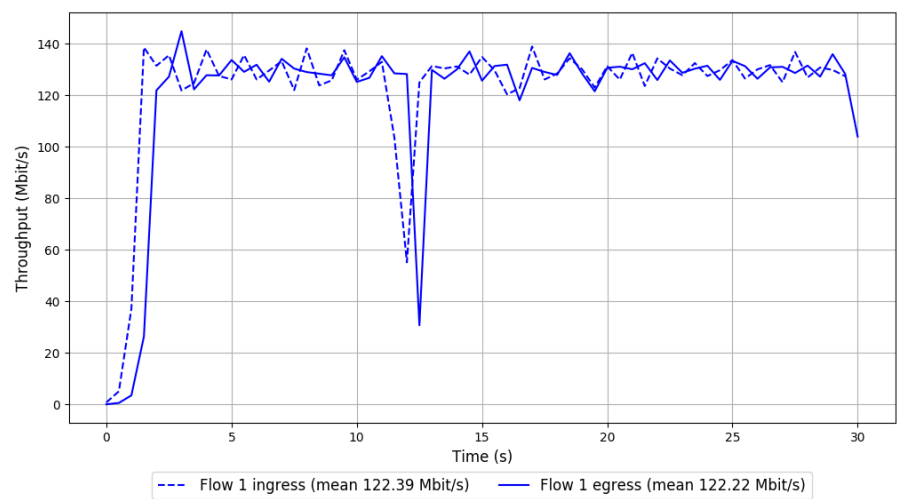
-- Flow 1:

Average throughput: 122.22 Mbit/s

95th percentile per-packet one-way delay: 98.573 ms

Loss rate: 0.61%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-06-30 02:10:49

End at: 2018-06-30 02:11:19

Local clock offset: 0.172 ms

Remote clock offset: -0.082 ms

Below is generated by plot.py at 2018-06-30 02:43:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 121.33 Mbit/s

95th percentile per-packet one-way delay: 93.784 ms

Loss rate: 0.61%

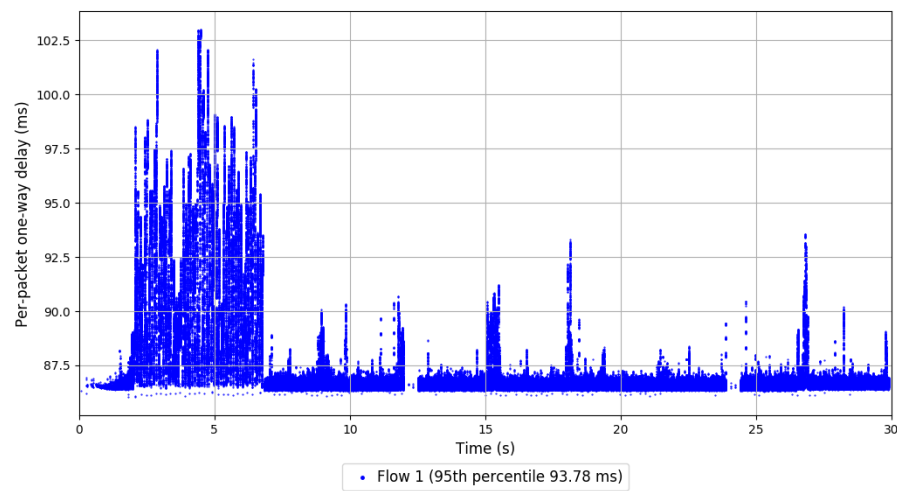
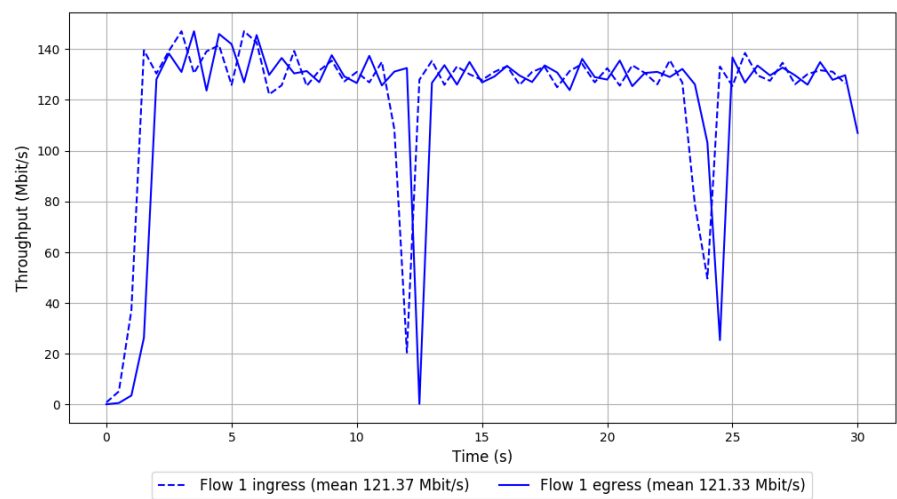
-- Flow 1:

Average throughput: 121.33 Mbit/s

95th percentile per-packet one-way delay: 93.784 ms

Loss rate: 0.61%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-06-30 02:31:38

End at: 2018-06-30 02:32:08

Local clock offset: 0.39 ms

Remote clock offset: -0.044 ms

Below is generated by plot.py at 2018-06-30 02:43:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 121.20 Mbit/s

95th percentile per-packet one-way delay: 90.623 ms

Loss rate: 0.61%

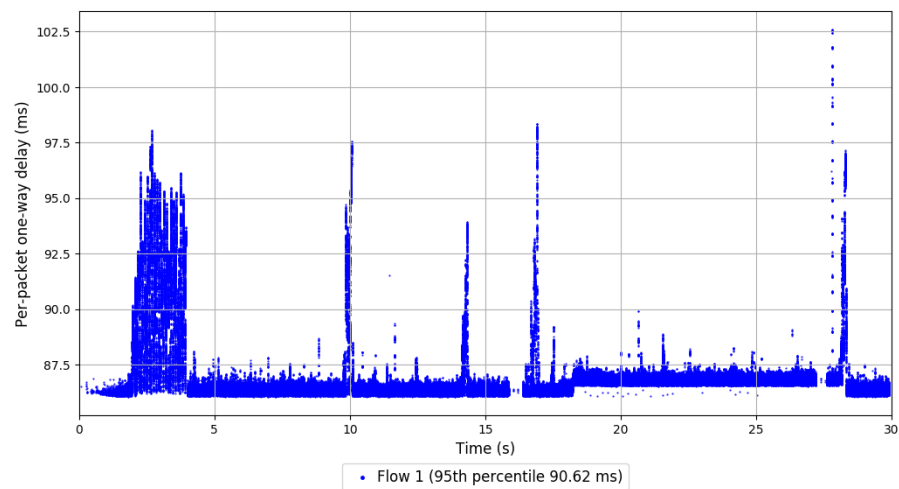
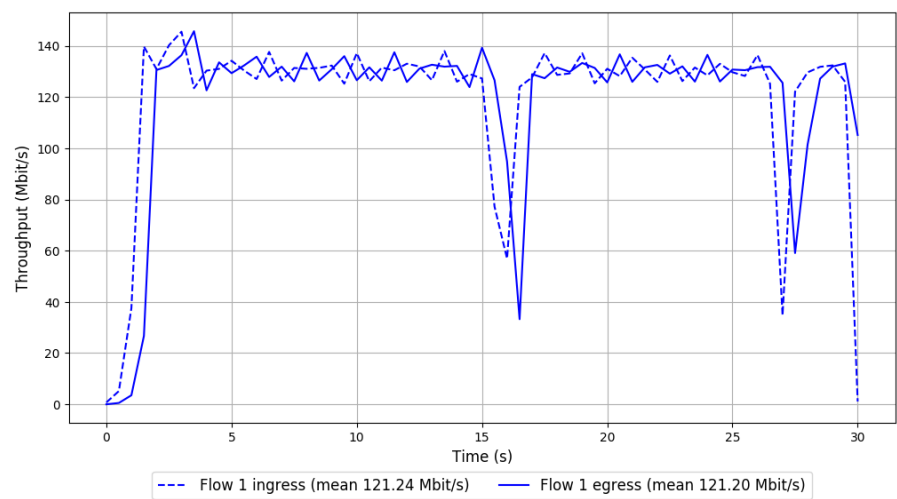
-- Flow 1:

Average throughput: 121.20 Mbit/s

95th percentile per-packet one-way delay: 90.623 ms

Loss rate: 0.61%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2018-06-29 23:11:05

End at: 2018-06-29 23:11:35

Local clock offset: 0.047 ms

Remote clock offset: -0.03 ms

Below is generated by plot.py at 2018-06-30 02:44:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.82 Mbit/s

95th percentile per-packet one-way delay: 95.153 ms

Loss rate: 0.65%

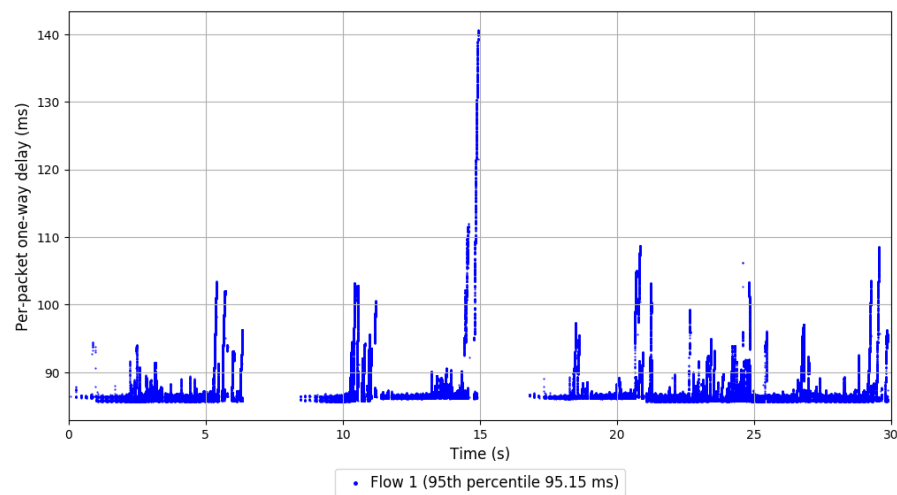
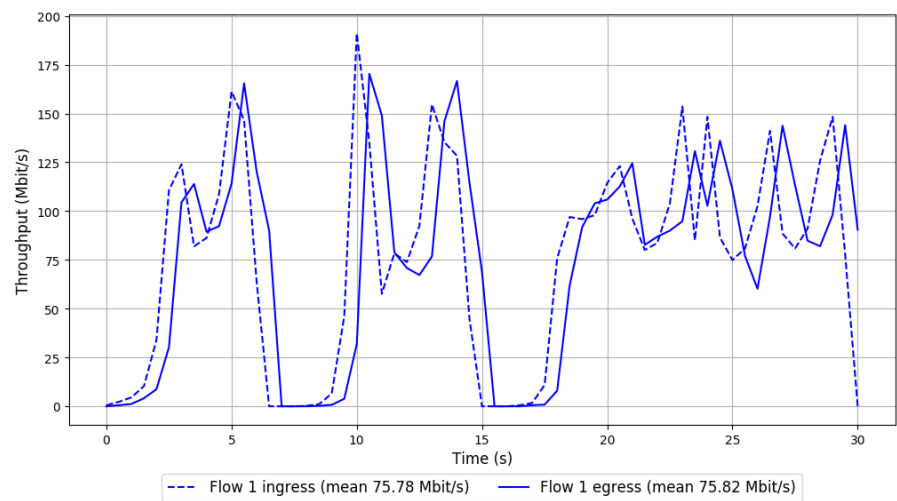
-- Flow 1:

Average throughput: 75.82 Mbit/s

95th percentile per-packet one-way delay: 95.153 ms

Loss rate: 0.65%

Run 1: Report of Copa — Data Link

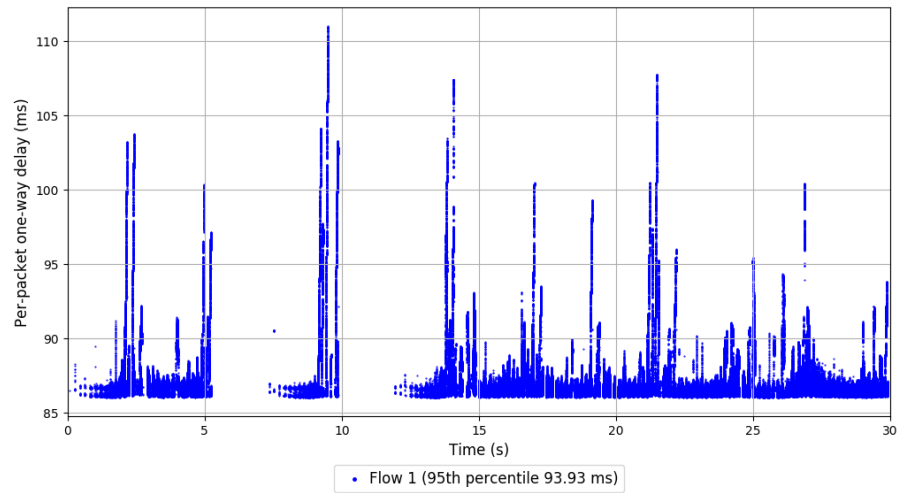
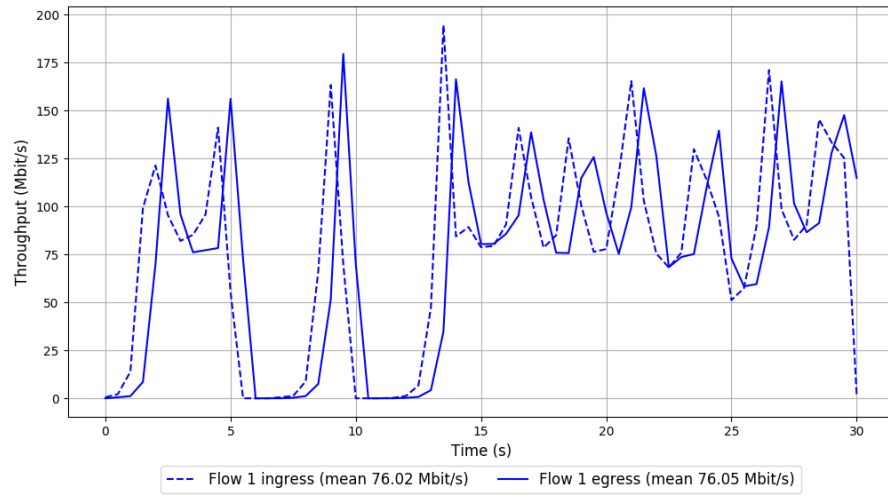


Run 2: Statistics of Copa

Start at: 2018-06-29 23:32:05
End at: 2018-06-29 23:32:35
Local clock offset: 0.298 ms
Remote clock offset: -0.059 ms

Below is generated by plot.py at 2018-06-30 02:44:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 76.05 Mbit/s
95th percentile per-packet one-way delay: 93.928 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 76.05 Mbit/s
95th percentile per-packet one-way delay: 93.928 ms
Loss rate: 0.57%

Run 2: Report of Copa — Data Link

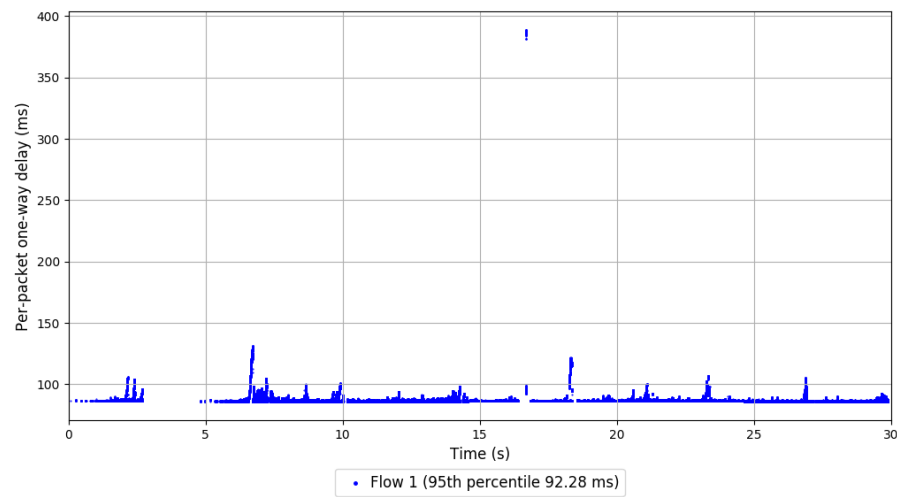
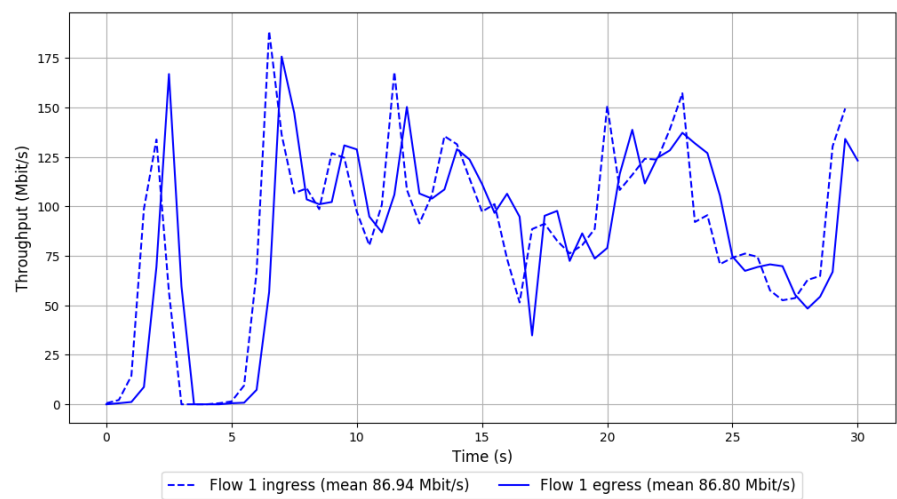


Run 3: Statistics of Copa

Start at: 2018-06-29 23:53:21
End at: 2018-06-29 23:53:51
Local clock offset: 0.012 ms
Remote clock offset: -0.037 ms

Below is generated by plot.py at 2018-06-30 02:44:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 86.80 Mbit/s
95th percentile per-packet one-way delay: 92.279 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 86.80 Mbit/s
95th percentile per-packet one-way delay: 92.279 ms
Loss rate: 0.74%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-06-30 00:14:14

End at: 2018-06-30 00:14:44

Local clock offset: 0.231 ms

Remote clock offset: 0.154 ms

Below is generated by plot.py at 2018-06-30 02:44:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.78 Mbit/s

95th percentile per-packet one-way delay: 94.329 ms

Loss rate: 0.53%

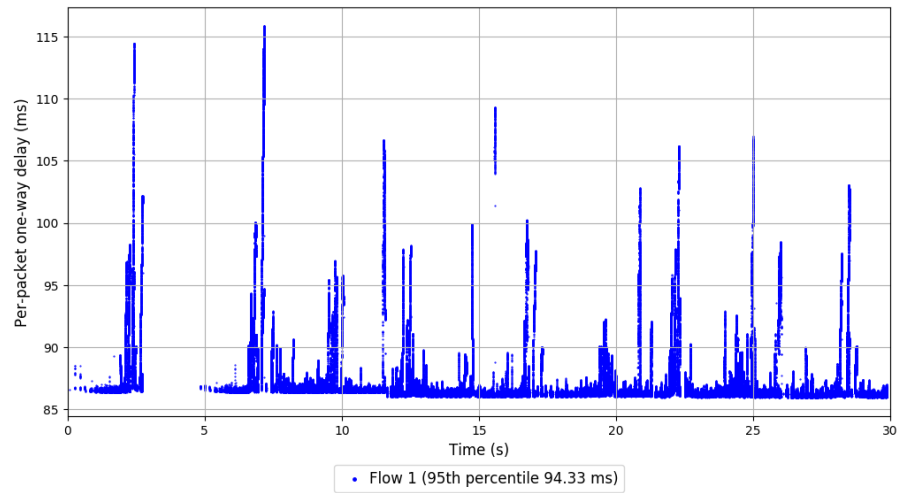
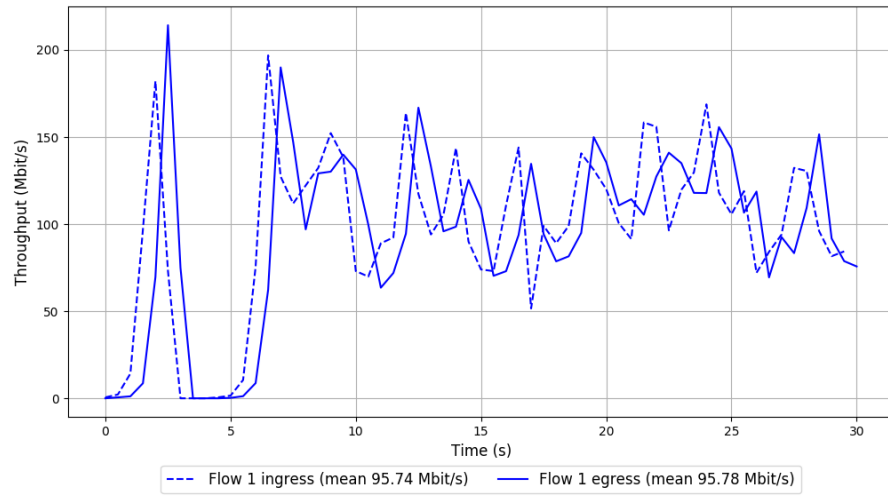
-- Flow 1:

Average throughput: 95.78 Mbit/s

95th percentile per-packet one-way delay: 94.329 ms

Loss rate: 0.53%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-06-30 00:35:28

End at: 2018-06-30 00:35:58

Local clock offset: 0.169 ms

Remote clock offset: 0.199 ms

Below is generated by plot.py at 2018-06-30 02:44:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.14 Mbit/s

95th percentile per-packet one-way delay: 93.612 ms

Loss rate: 0.70%

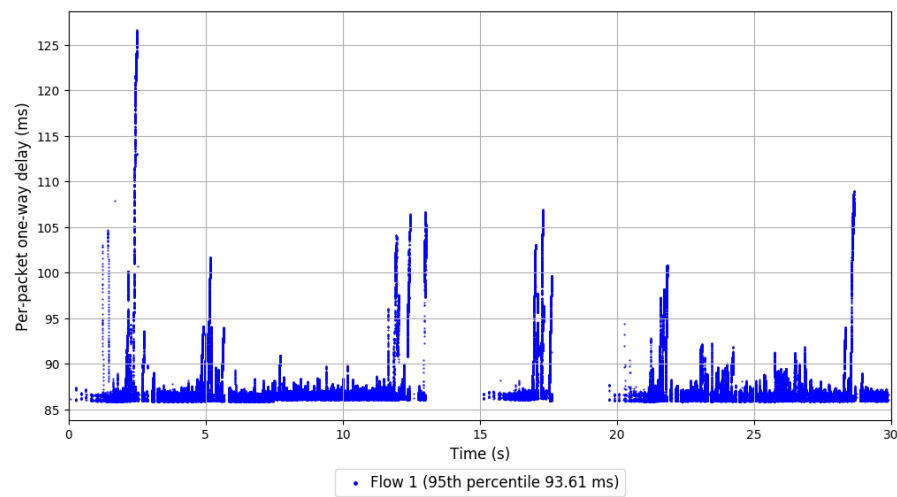
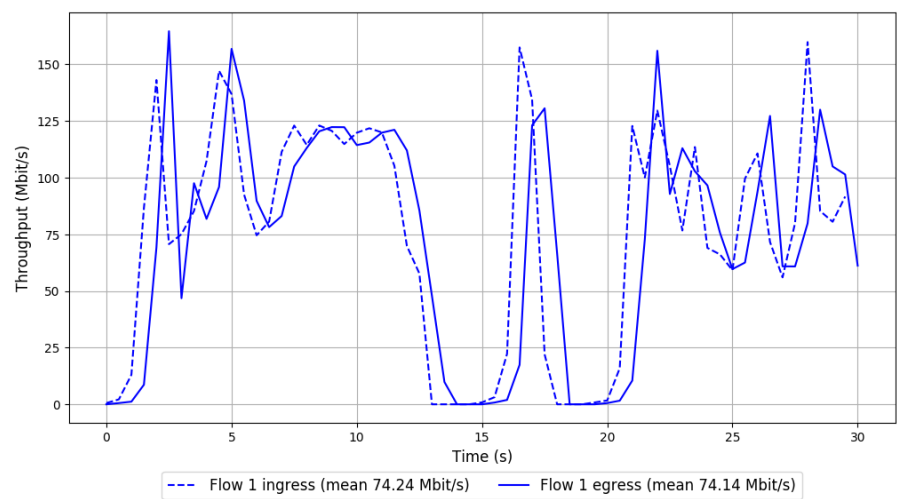
-- Flow 1:

Average throughput: 74.14 Mbit/s

95th percentile per-packet one-way delay: 93.612 ms

Loss rate: 0.70%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-06-30 00:56:30

End at: 2018-06-30 00:57:00

Local clock offset: 0.067 ms

Remote clock offset: 0.192 ms

Below is generated by plot.py at 2018-06-30 02:44:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.22 Mbit/s

95th percentile per-packet one-way delay: 92.084 ms

Loss rate: 0.84%

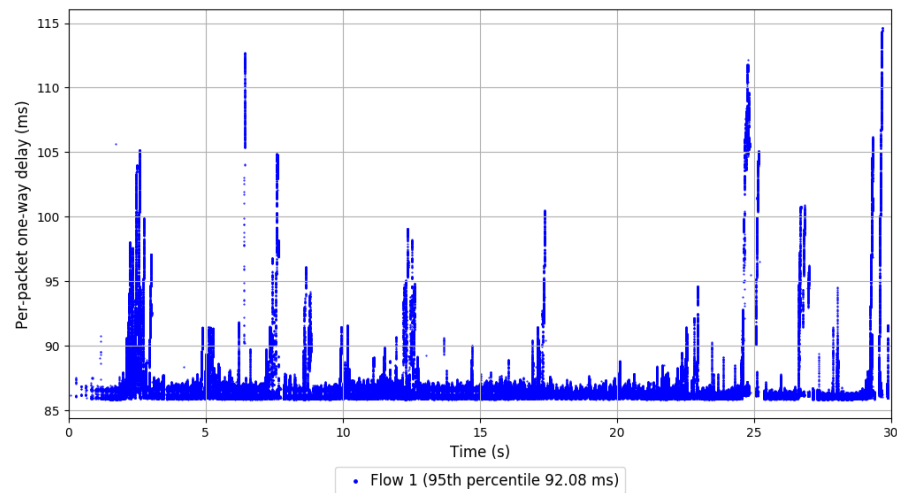
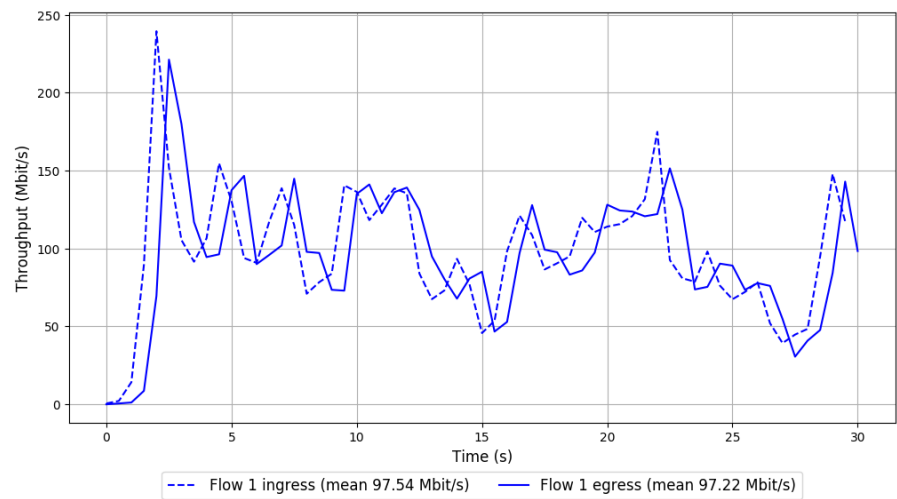
-- Flow 1:

Average throughput: 97.22 Mbit/s

95th percentile per-packet one-way delay: 92.084 ms

Loss rate: 0.84%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-06-30 01:17:25

End at: 2018-06-30 01:17:55

Local clock offset: 0.207 ms

Remote clock offset: 0.149 ms

Below is generated by plot.py at 2018-06-30 02:48:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 124.98 Mbit/s

95th percentile per-packet one-way delay: 116.177 ms

Loss rate: 0.49%

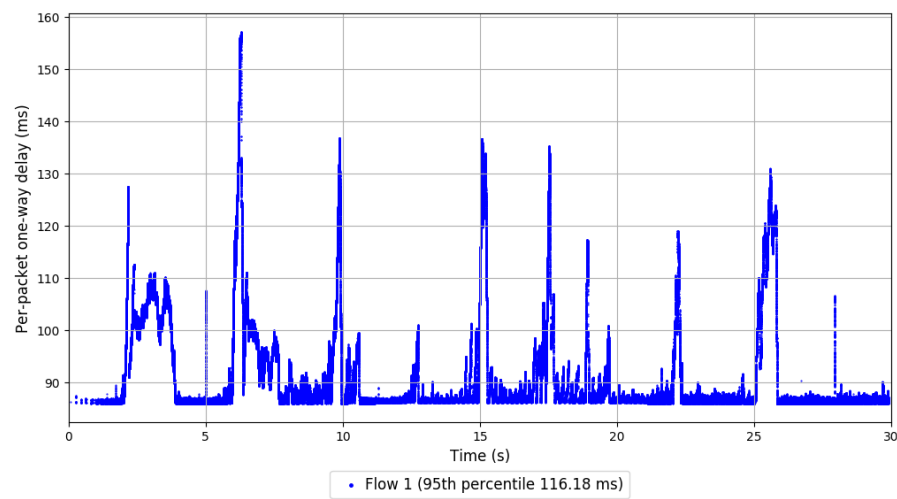
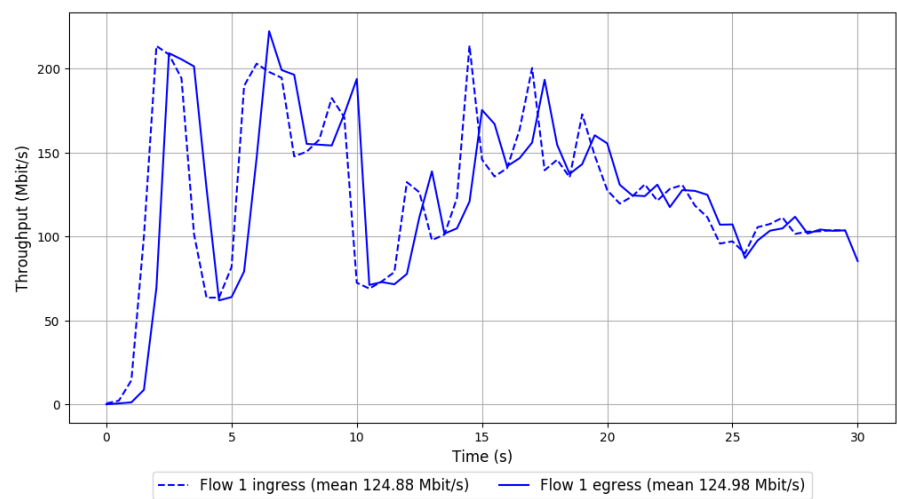
-- Flow 1:

Average throughput: 124.98 Mbit/s

95th percentile per-packet one-way delay: 116.177 ms

Loss rate: 0.49%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-06-30 01:38:37

End at: 2018-06-30 01:39:07

Local clock offset: 0.2 ms

Remote clock offset: 0.052 ms

Below is generated by plot.py at 2018-06-30 02:48:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 101.34 Mbit/s

95th percentile per-packet one-way delay: 93.340 ms

Loss rate: 0.75%

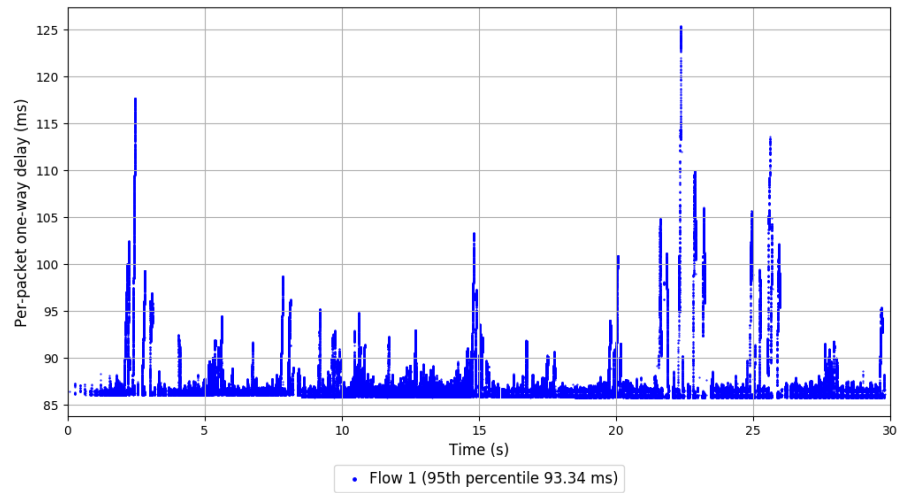
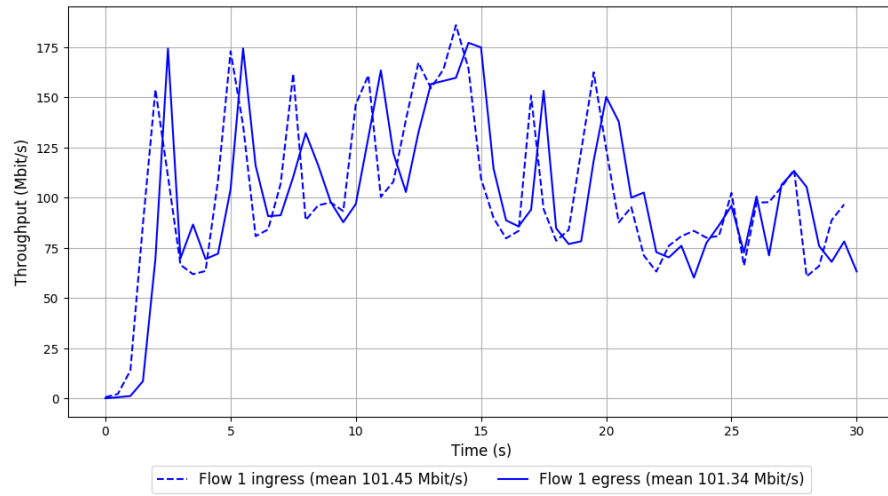
-- Flow 1:

Average throughput: 101.34 Mbit/s

95th percentile per-packet one-way delay: 93.340 ms

Loss rate: 0.75%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-06-30 01:59:34

End at: 2018-06-30 02:00:04

Local clock offset: 0.403 ms

Remote clock offset: -0.039 ms

Below is generated by plot.py at 2018-06-30 02:48:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.69 Mbit/s

95th percentile per-packet one-way delay: 95.764 ms

Loss rate: 0.70%

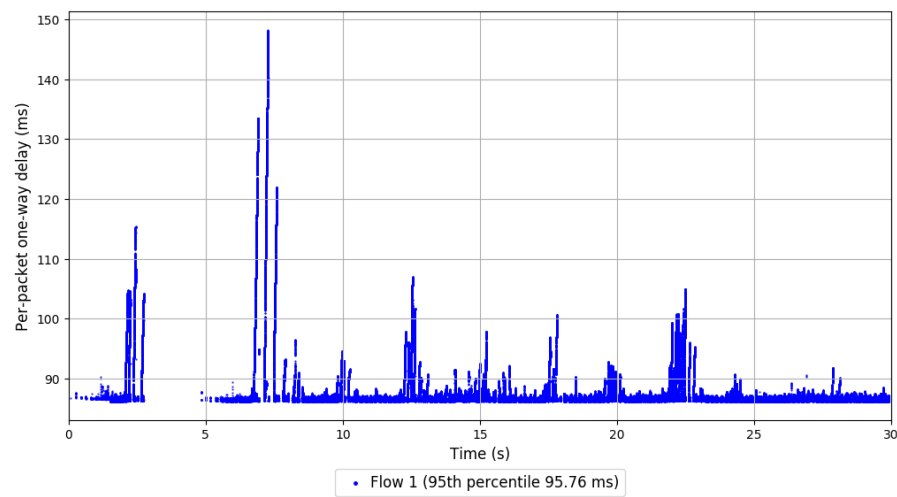
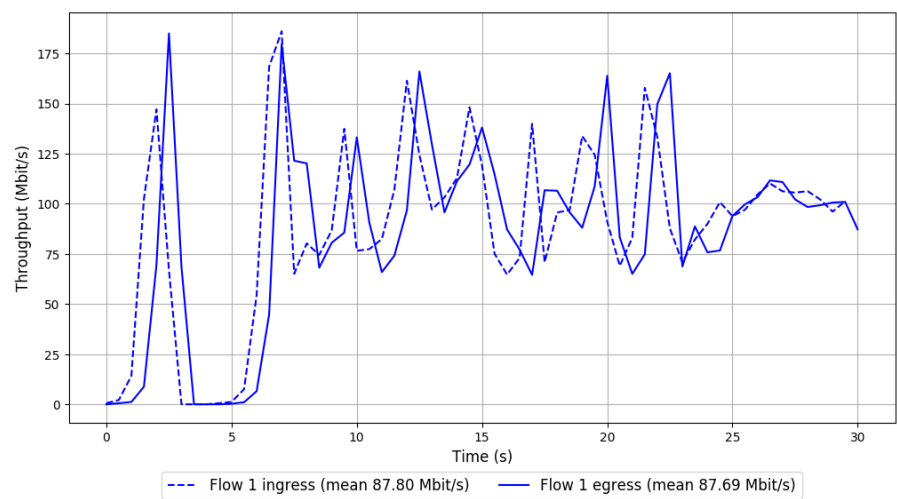
-- Flow 1:

Average throughput: 87.69 Mbit/s

95th percentile per-packet one-way delay: 95.764 ms

Loss rate: 0.70%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-06-30 02:20:46

End at: 2018-06-30 02:21:16

Local clock offset: 0.283 ms

Remote clock offset: -0.069 ms

Below is generated by plot.py at 2018-06-30 02:48:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 81.63 Mbit/s

95th percentile per-packet one-way delay: 93.746 ms

Loss rate: 0.01%

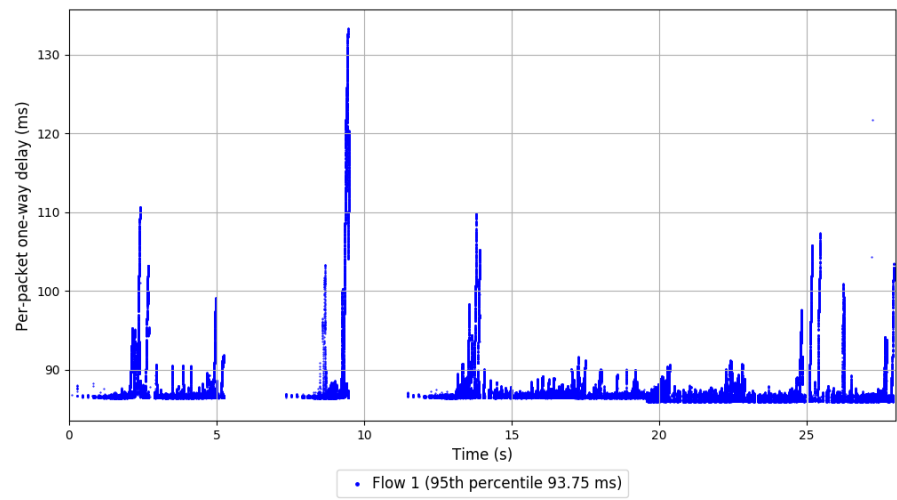
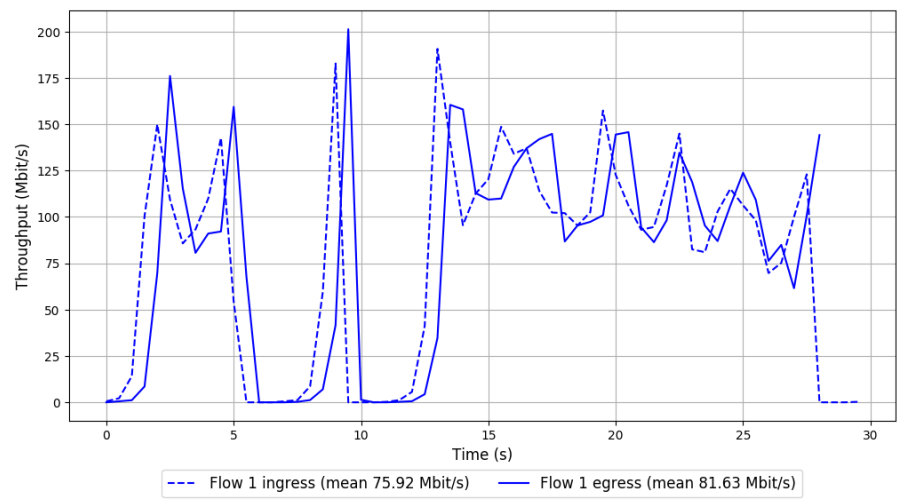
-- Flow 1:

Average throughput: 81.63 Mbit/s

95th percentile per-packet one-way delay: 93.746 ms

Loss rate: 0.01%

Run 10: Report of Copa — Data Link

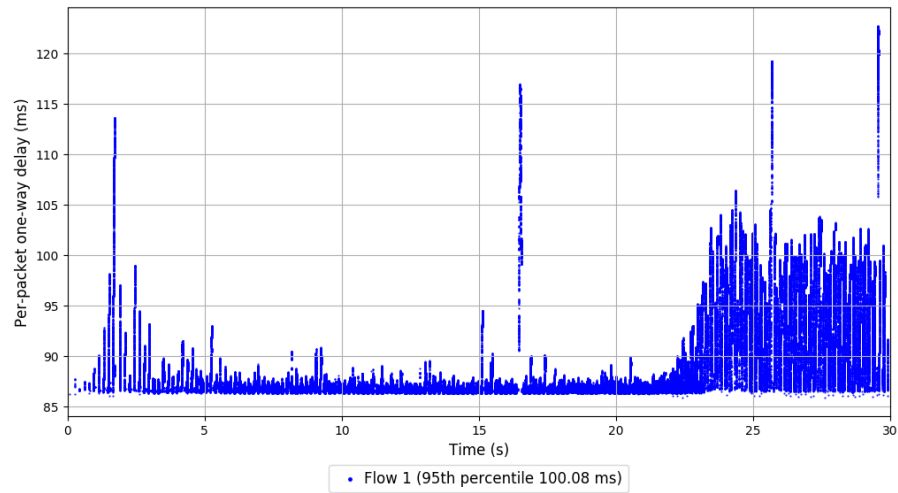
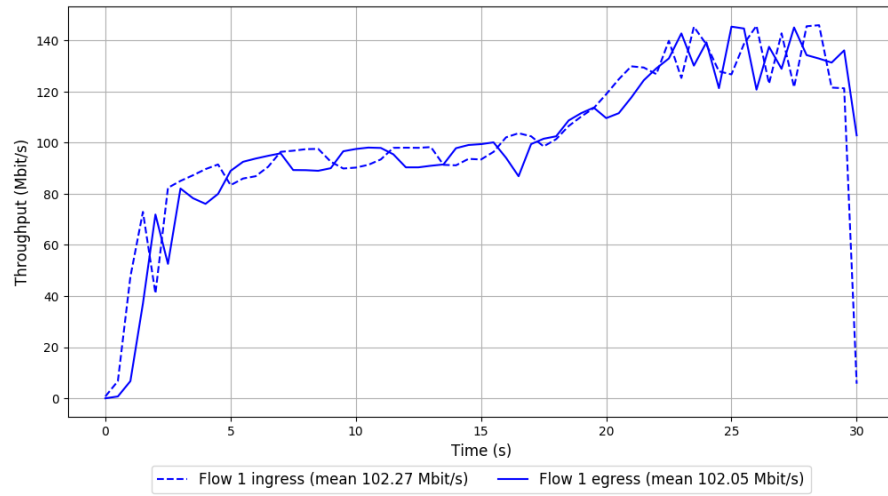


Run 1: Statistics of TCP Cubic

Start at: 2018-06-29 23:17:00
End at: 2018-06-29 23:17:30
Local clock offset: 0.174 ms
Remote clock offset: -0.034 ms

Below is generated by plot.py at 2018-06-30 02:48:01
Datalink statistics
-- Total of 1 flow:
Average throughput: 102.05 Mbit/s
95th percentile per-packet one-way delay: 100.084 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 102.05 Mbit/s
95th percentile per-packet one-way delay: 100.084 ms
Loss rate: 0.79%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-06-29 23:38:04

End at: 2018-06-29 23:38:34

Local clock offset: 0.177 ms

Remote clock offset: 0.0 ms

Below is generated by plot.py at 2018-06-30 02:48:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 131.75 Mbit/s

95th percentile per-packet one-way delay: 98.594 ms

Loss rate: 0.67%

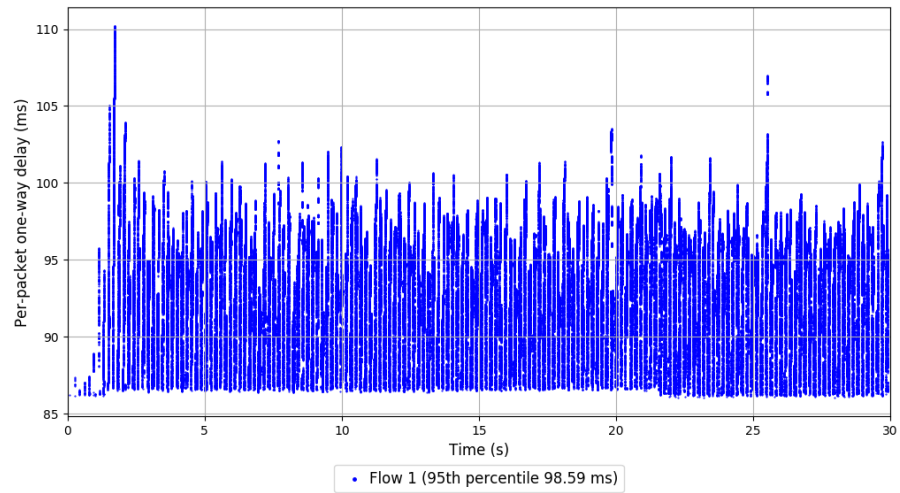
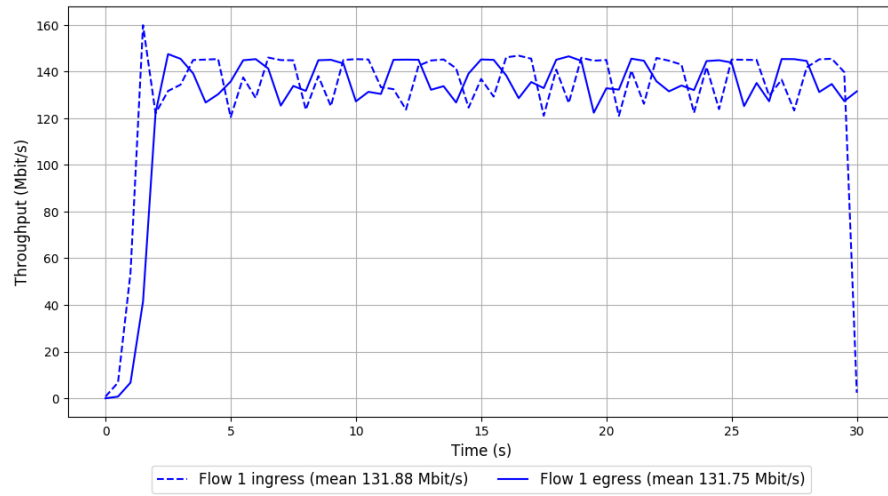
-- Flow 1:

Average throughput: 131.75 Mbit/s

95th percentile per-packet one-way delay: 98.594 ms

Loss rate: 0.67%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-06-29 23:59:19

End at: 2018-06-29 23:59:49

Local clock offset: 0.237 ms

Remote clock offset: 0.053 ms

Below is generated by plot.py at 2018-06-30 02:48:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 131.28 Mbit/s

95th percentile per-packet one-way delay: 98.992 ms

Loss rate: 0.66%

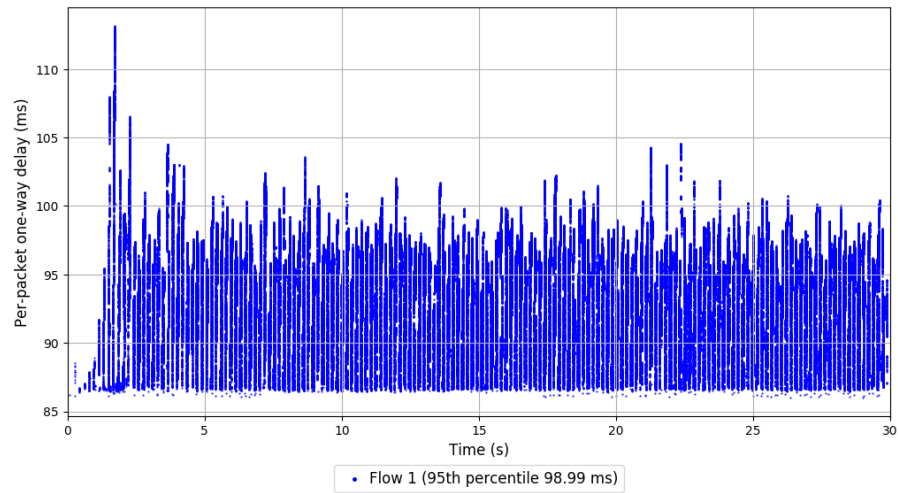
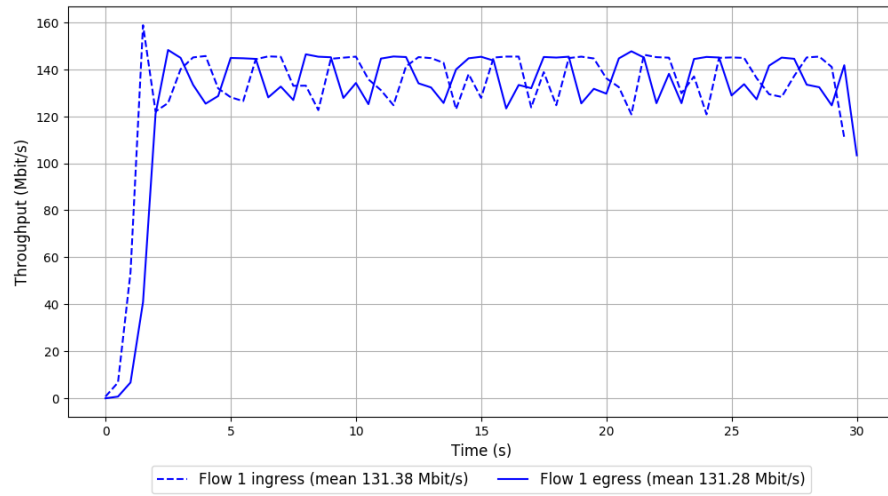
-- Flow 1:

Average throughput: 131.28 Mbit/s

95th percentile per-packet one-way delay: 98.992 ms

Loss rate: 0.66%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-06-30 00:20:13

End at: 2018-06-30 00:20:43

Local clock offset: 0.233 ms

Remote clock offset: 0.143 ms

Below is generated by plot.py at 2018-06-30 02:48:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 98.56 Mbit/s

95th percentile per-packet one-way delay: 99.041 ms

Loss rate: 0.82%

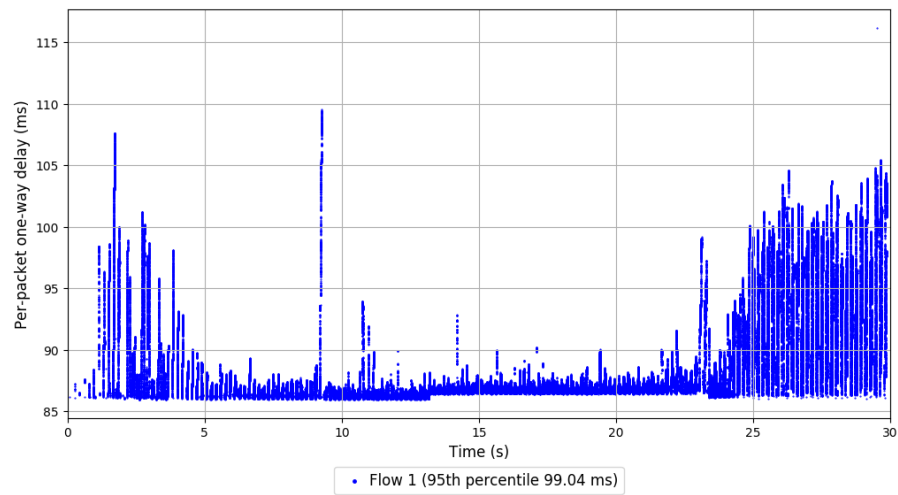
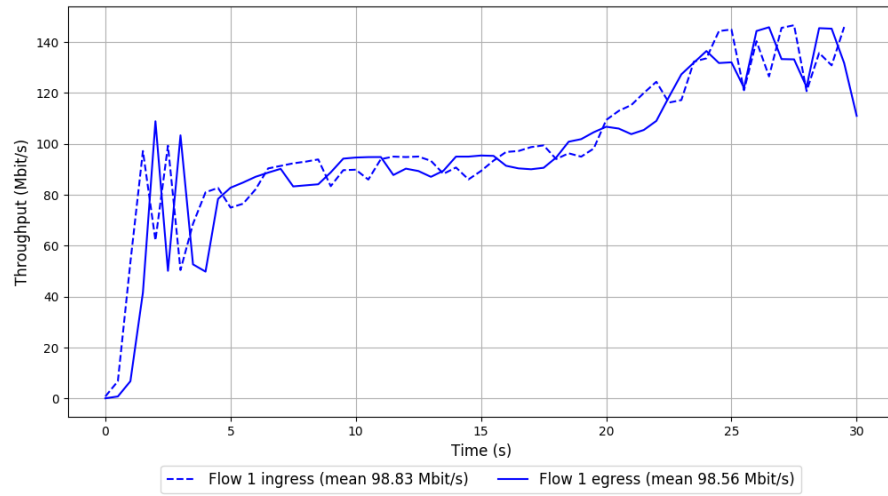
-- Flow 1:

Average throughput: 98.56 Mbit/s

95th percentile per-packet one-way delay: 99.041 ms

Loss rate: 0.82%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-06-30 00:41:29

End at: 2018-06-30 00:41:59

Local clock offset: 0.149 ms

Remote clock offset: 0.27 ms

Below is generated by plot.py at 2018-06-30 02:48:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.71 Mbit/s

95th percentile per-packet one-way delay: 101.063 ms

Loss rate: 0.66%

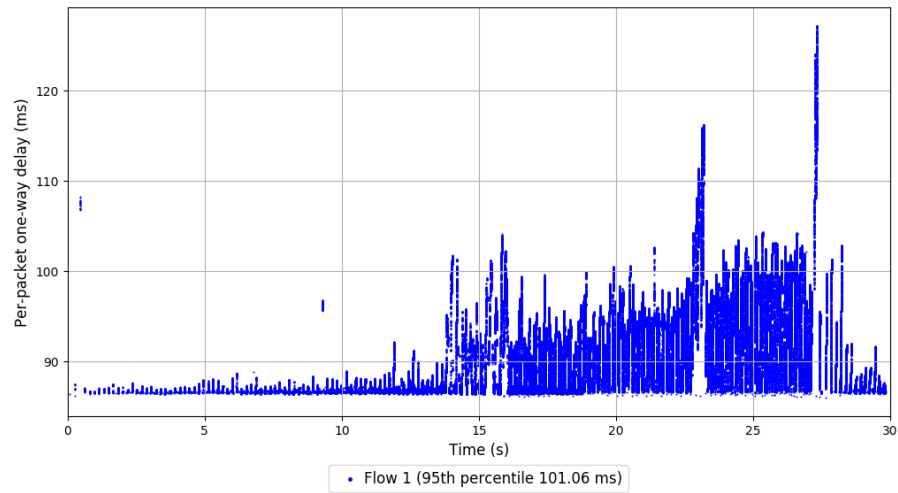
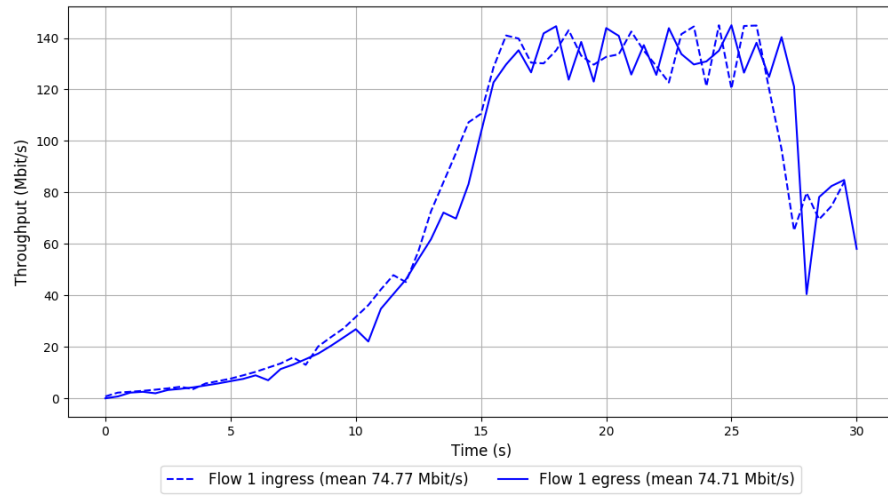
-- Flow 1:

Average throughput: 74.71 Mbit/s

95th percentile per-packet one-way delay: 101.063 ms

Loss rate: 0.66%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-06-30 01:02:28

End at: 2018-06-30 01:02:58

Local clock offset: 0.112 ms

Remote clock offset: 0.273 ms

Below is generated by plot.py at 2018-06-30 02:48:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 131.25 Mbit/s

95th percentile per-packet one-way delay: 100.617 ms

Loss rate: 0.67%

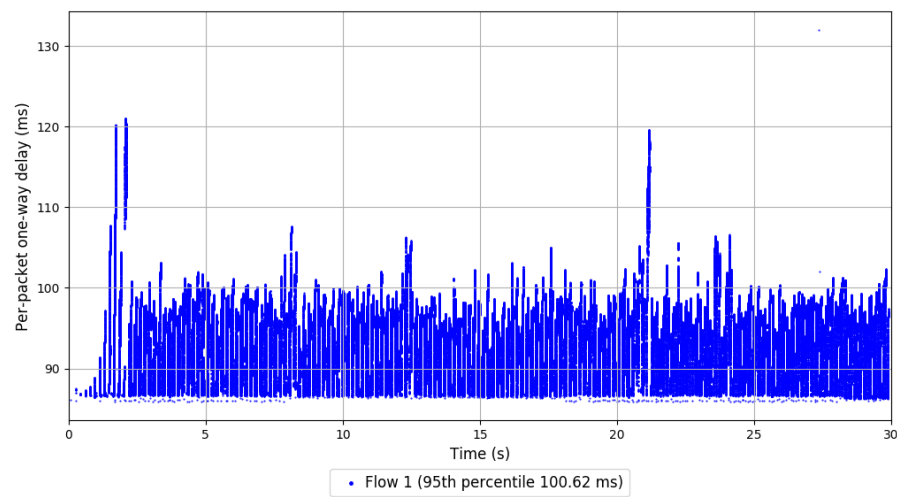
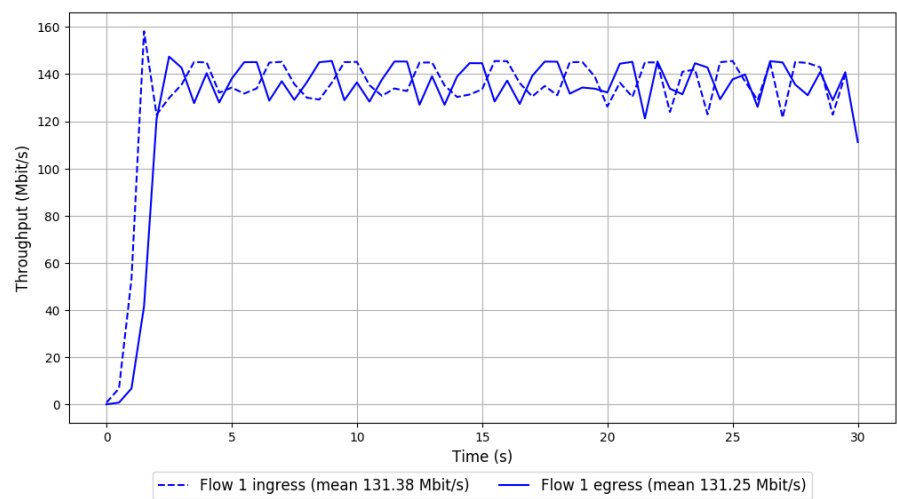
-- Flow 1:

Average throughput: 131.25 Mbit/s

95th percentile per-packet one-way delay: 100.617 ms

Loss rate: 0.67%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-06-30 01:23:27

End at: 2018-06-30 01:23:57

Local clock offset: 0.093 ms

Remote clock offset: 0.139 ms

Below is generated by plot.py at 2018-06-30 02:49:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 131.41 Mbit/s

95th percentile per-packet one-way delay: 99.911 ms

Loss rate: 0.68%

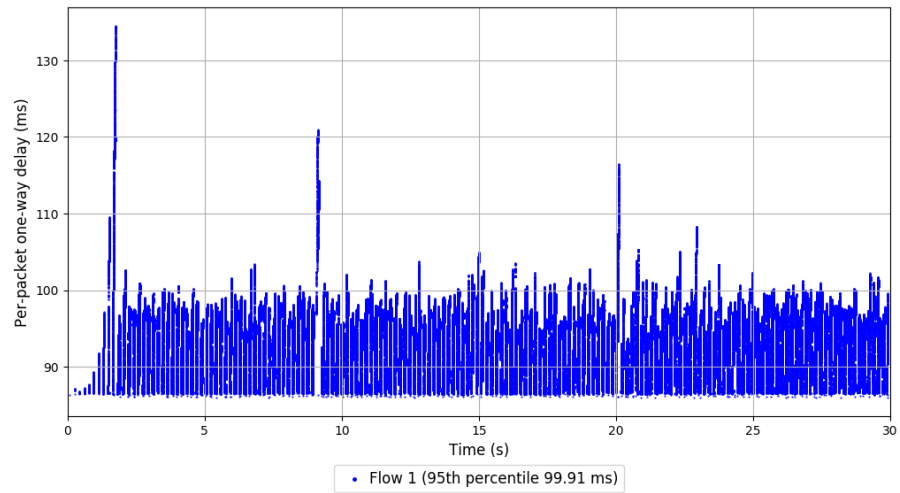
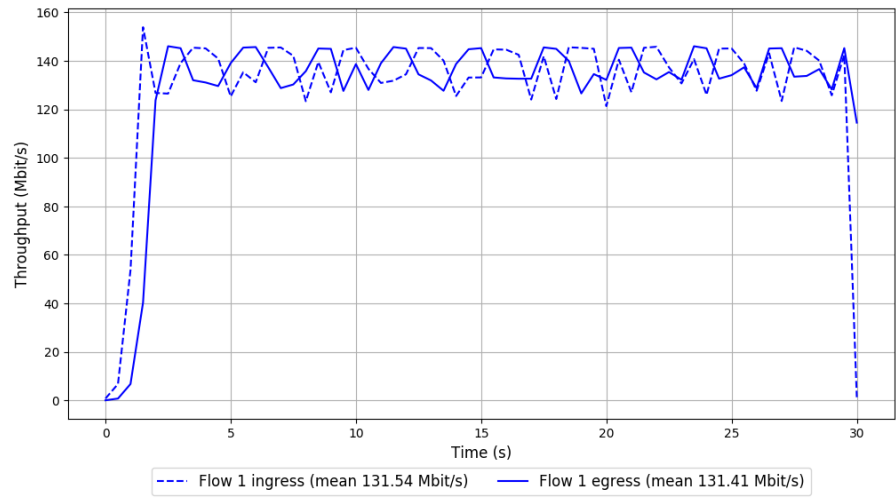
-- Flow 1:

Average throughput: 131.41 Mbit/s

95th percentile per-packet one-way delay: 99.911 ms

Loss rate: 0.68%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-06-30 01:44:41

End at: 2018-06-30 01:45:11

Local clock offset: 0.315 ms

Remote clock offset: 0.086 ms

Below is generated by plot.py at 2018-06-30 02:49:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.06 Mbit/s

95th percentile per-packet one-way delay: 99.158 ms

Loss rate: 0.55%

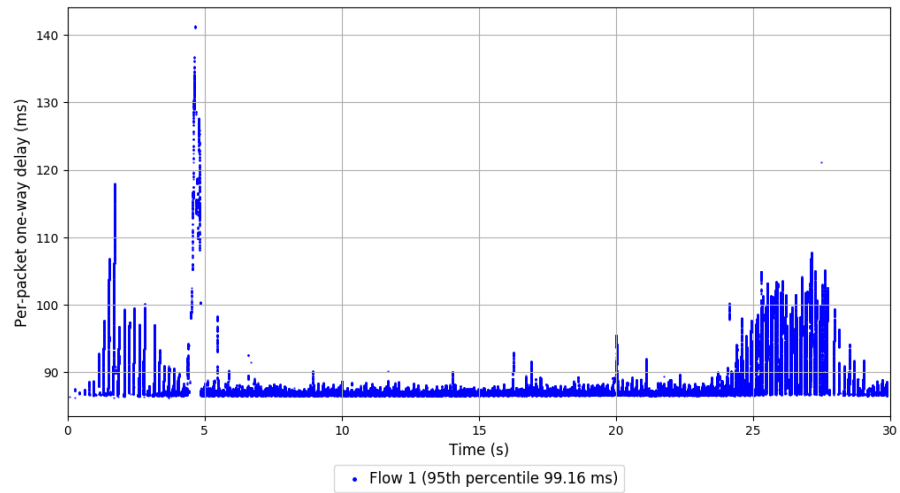
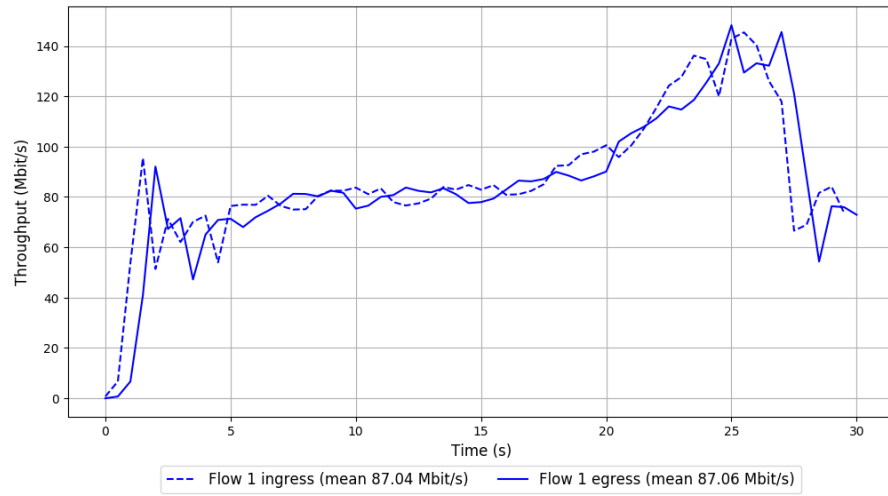
-- Flow 1:

Average throughput: 87.06 Mbit/s

95th percentile per-packet one-way delay: 99.158 ms

Loss rate: 0.55%

Run 8: Report of TCP Cubic — Data Link

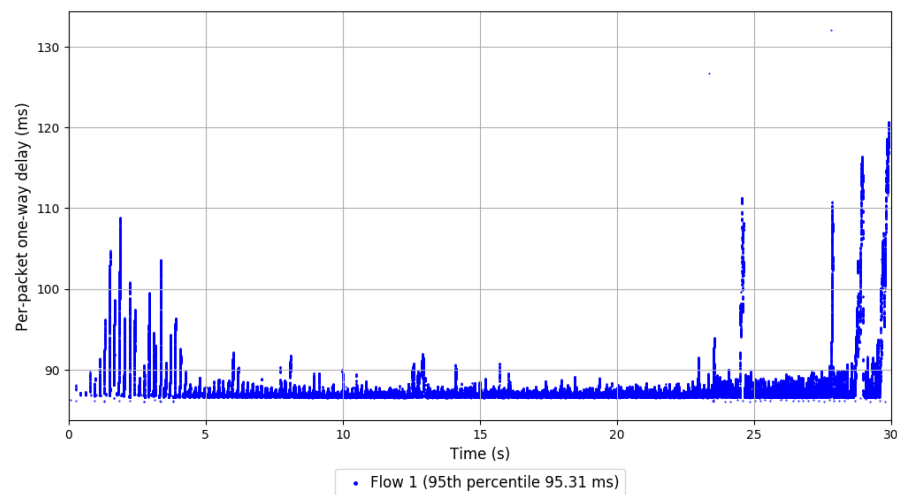
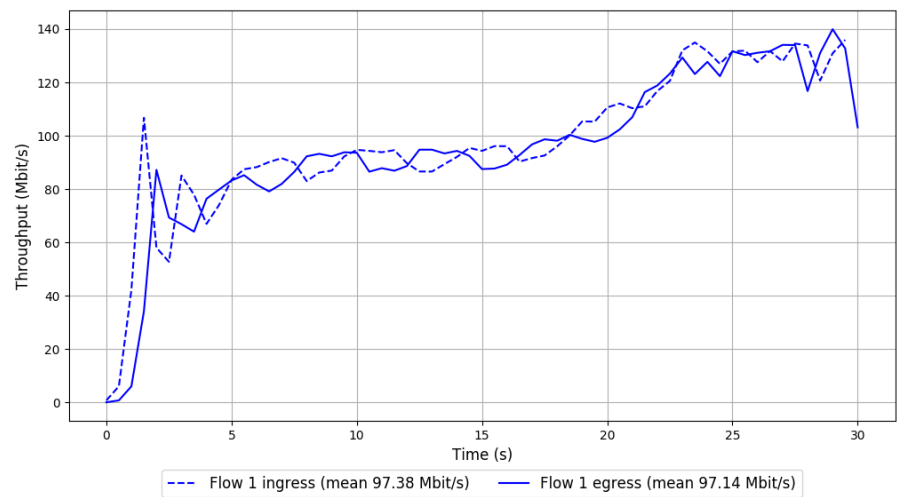


Run 9: Statistics of TCP Cubic

Start at: 2018-06-30 02:05:28
End at: 2018-06-30 02:05:58
Local clock offset: 0.298 ms
Remote clock offset: -0.134 ms

Below is generated by plot.py at 2018-06-30 02:49:00
Datalink statistics
-- Total of 1 flow:
Average throughput: 97.14 Mbit/s
95th percentile per-packet one-way delay: 95.306 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 97.14 Mbit/s
95th percentile per-packet one-way delay: 95.306 ms
Loss rate: 0.82%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-06-30 02:26:37

End at: 2018-06-30 02:27:07

Local clock offset: 0.129 ms

Remote clock offset: -0.08 ms

Below is generated by plot.py at 2018-06-30 02:49:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.89 Mbit/s

95th percentile per-packet one-way delay: 97.436 ms

Loss rate: 0.39%

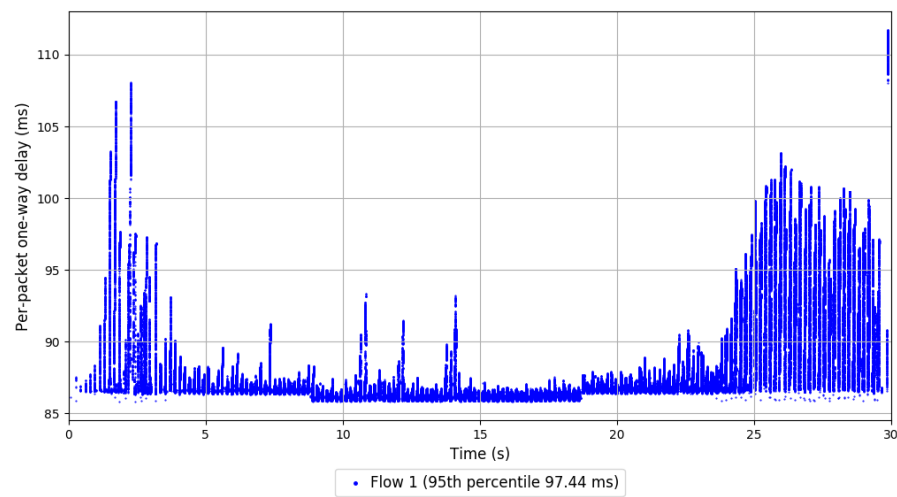
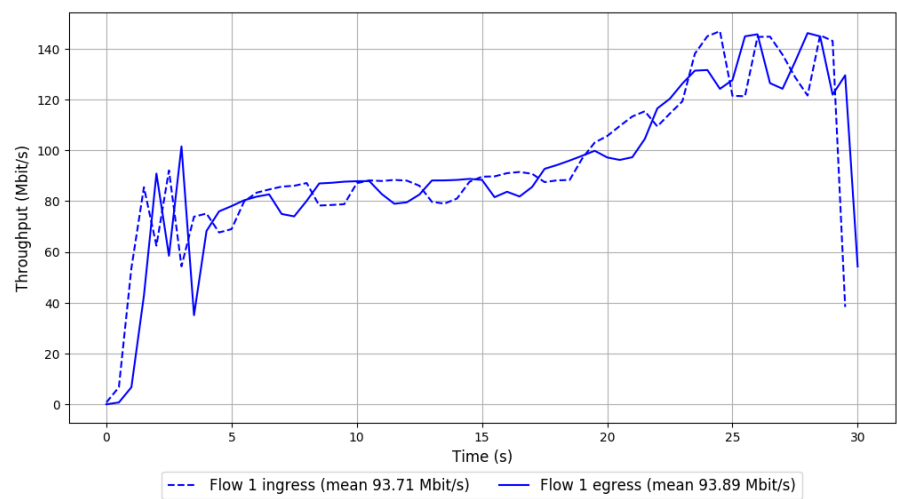
-- Flow 1:

Average throughput: 93.89 Mbit/s

95th percentile per-packet one-way delay: 97.436 ms

Loss rate: 0.39%

Run 10: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2018-06-29 23:19:22

End at: 2018-06-29 23:19:52

Local clock offset: 0.364 ms

Remote clock offset: -0.015 ms

Below is generated by plot.py at 2018-06-30 03:00:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 614.89 Mbit/s

95th percentile per-packet one-way delay: 313.926 ms

Loss rate: 1.63%

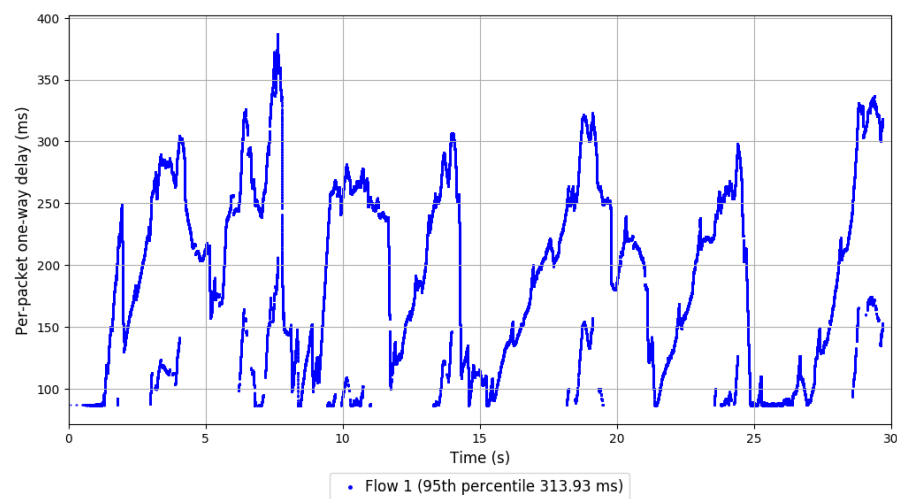
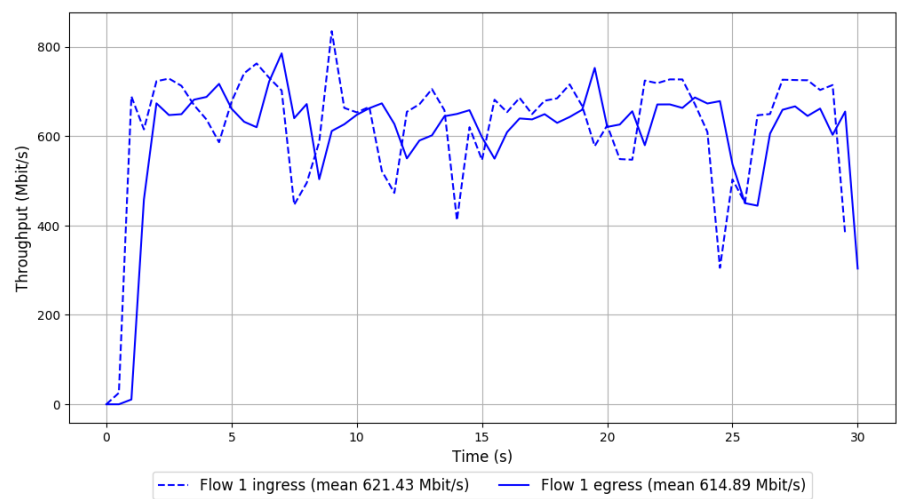
-- Flow 1:

Average throughput: 614.89 Mbit/s

95th percentile per-packet one-way delay: 313.926 ms

Loss rate: 1.63%

Run 1: Report of FillP — Data Link

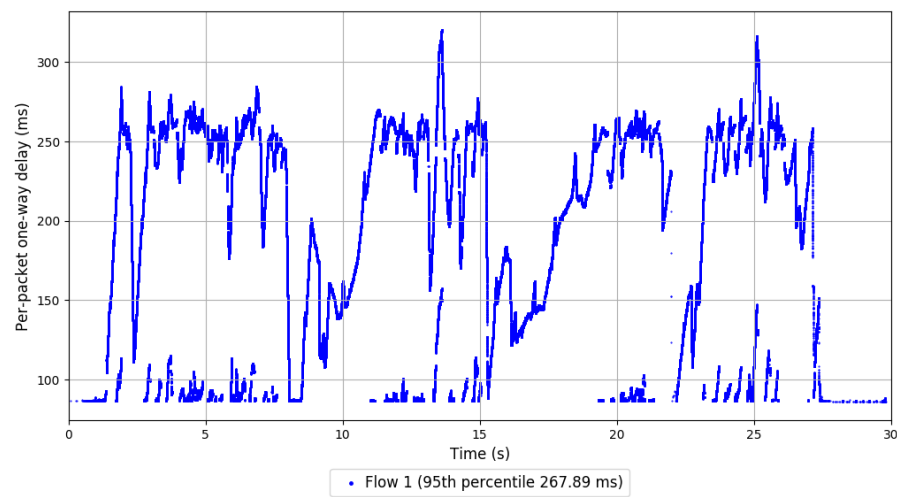
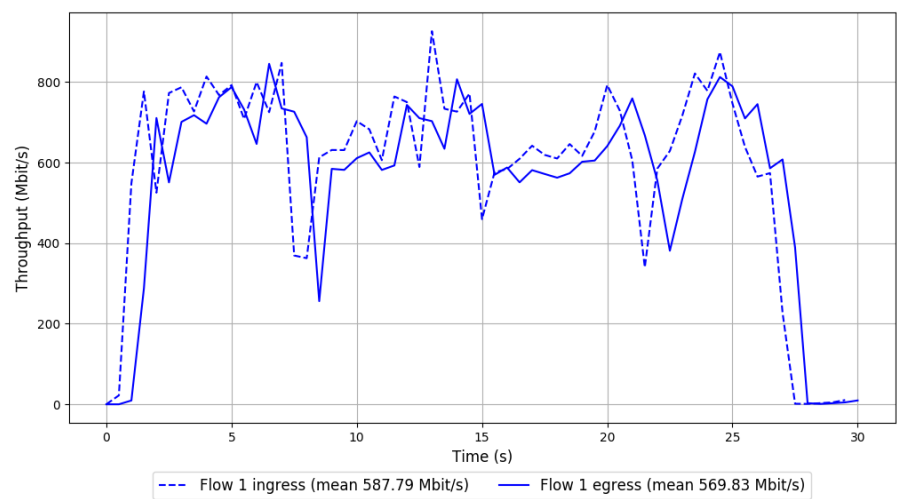


Run 2: Statistics of FillP

Start at: 2018-06-29 23:40:28
End at: 2018-06-29 23:40:58
Local clock offset: 0.194 ms
Remote clock offset: -0.017 ms

Below is generated by plot.py at 2018-06-30 03:00:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 569.83 Mbit/s
95th percentile per-packet one-way delay: 267.886 ms
Loss rate: 3.52%
-- Flow 1:
Average throughput: 569.83 Mbit/s
95th percentile per-packet one-way delay: 267.886 ms
Loss rate: 3.52%

Run 2: Report of FillP — Data Link

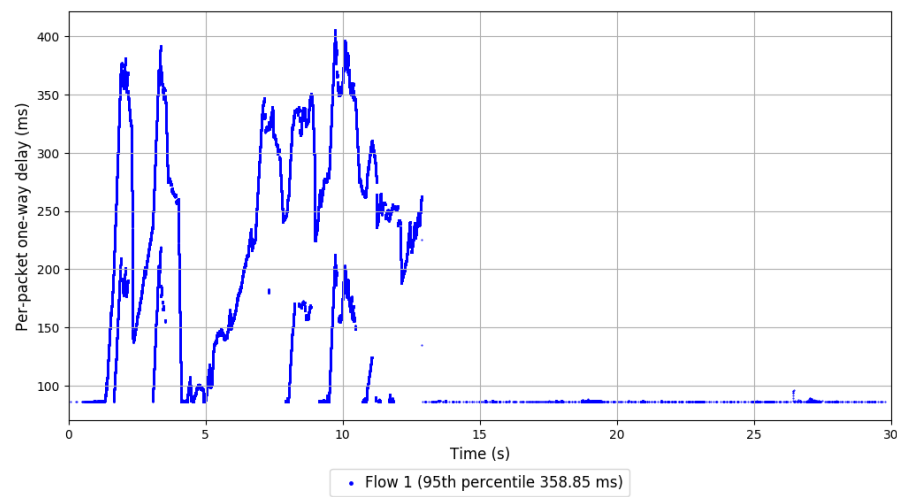
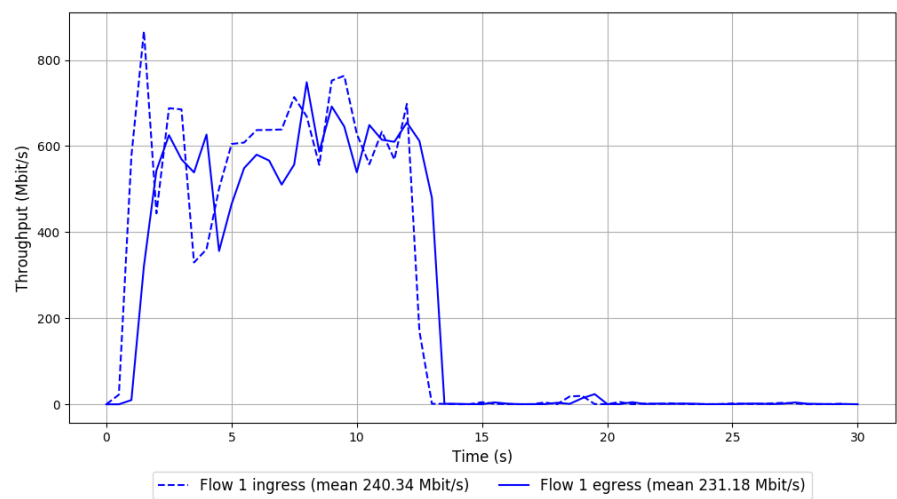


Run 3: Statistics of FillP

Start at: 2018-06-30 00:01:42
End at: 2018-06-30 00:02:12
Local clock offset: 0.104 ms
Remote clock offset: -0.017 ms

Below is generated by plot.py at 2018-06-30 03:00:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 231.18 Mbit/s
95th percentile per-packet one-way delay: 358.849 ms
Loss rate: 4.61%
-- Flow 1:
Average throughput: 231.18 Mbit/s
95th percentile per-packet one-way delay: 358.849 ms
Loss rate: 4.61%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-06-30 00:22:37

End at: 2018-06-30 00:23:07

Local clock offset: 0.191 ms

Remote clock offset: 0.144 ms

Below is generated by plot.py at 2018-06-30 03:02:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 656.73 Mbit/s

95th percentile per-packet one-way delay: 315.440 ms

Loss rate: 3.37%

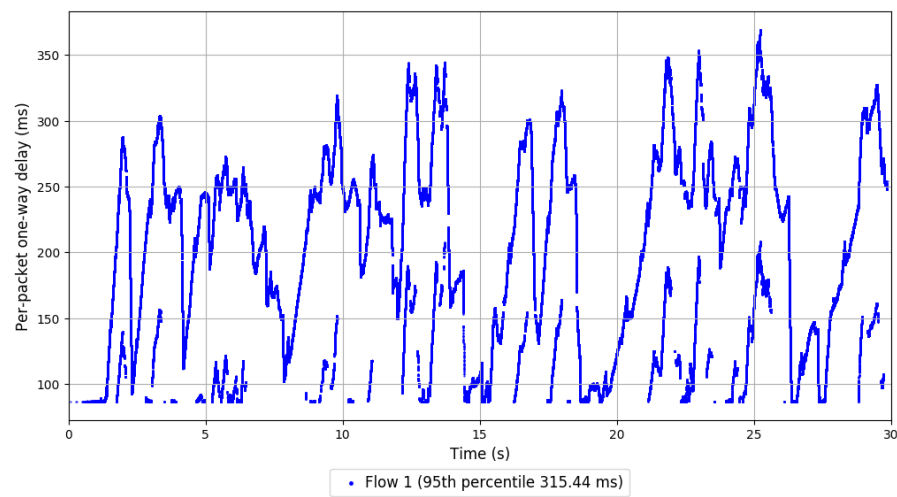
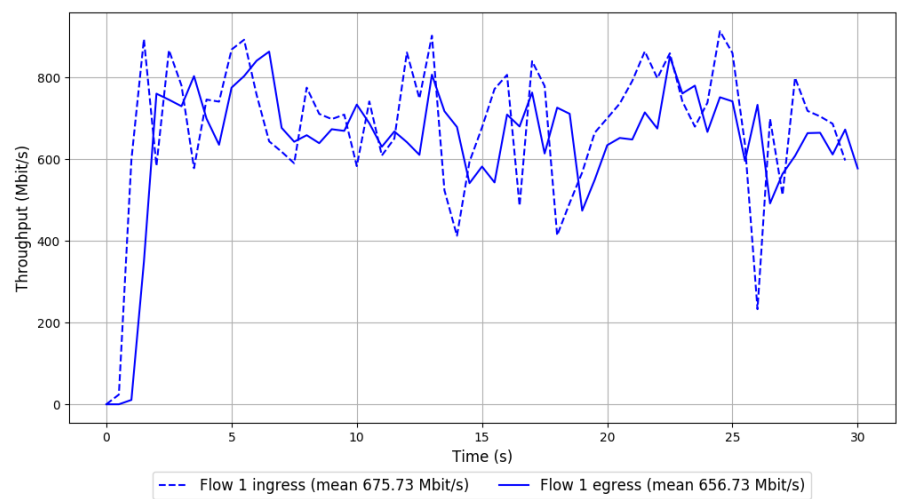
-- Flow 1:

Average throughput: 656.73 Mbit/s

95th percentile per-packet one-way delay: 315.440 ms

Loss rate: 3.37%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-06-30 00:43:54

End at: 2018-06-30 00:44:24

Local clock offset: 0.117 ms

Remote clock offset: 0.246 ms

Below is generated by plot.py at 2018-06-30 03:02:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 452.32 Mbit/s

95th percentile per-packet one-way delay: 287.482 ms

Loss rate: 2.55%

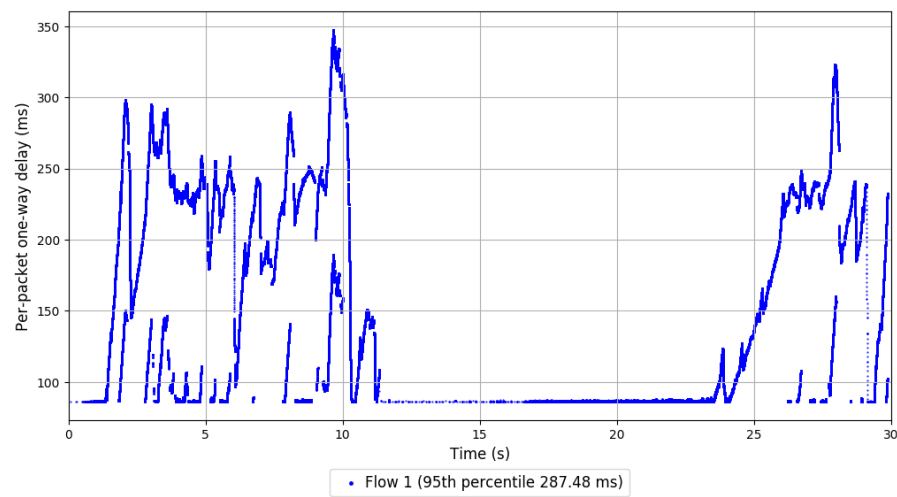
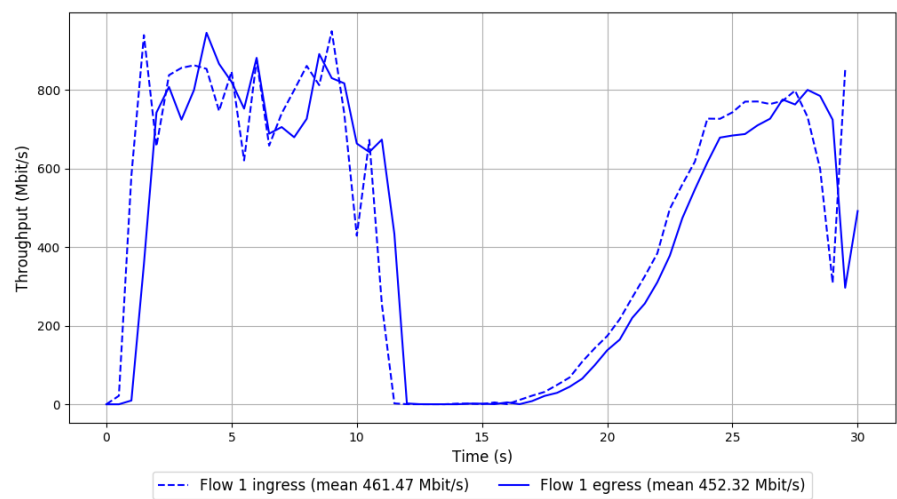
-- Flow 1:

Average throughput: 452.32 Mbit/s

95th percentile per-packet one-way delay: 287.482 ms

Loss rate: 2.55%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-06-30 01:04:53

End at: 2018-06-30 01:05:23

Local clock offset: 0.144 ms

Remote clock offset: 0.299 ms

Below is generated by plot.py at 2018-06-30 03:02:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 500.90 Mbit/s

95th percentile per-packet one-way delay: 266.893 ms

Loss rate: 0.55%

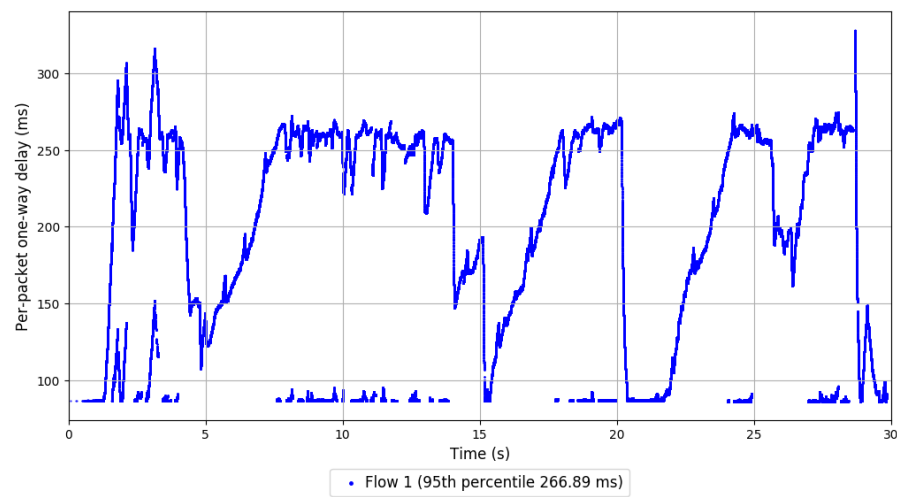
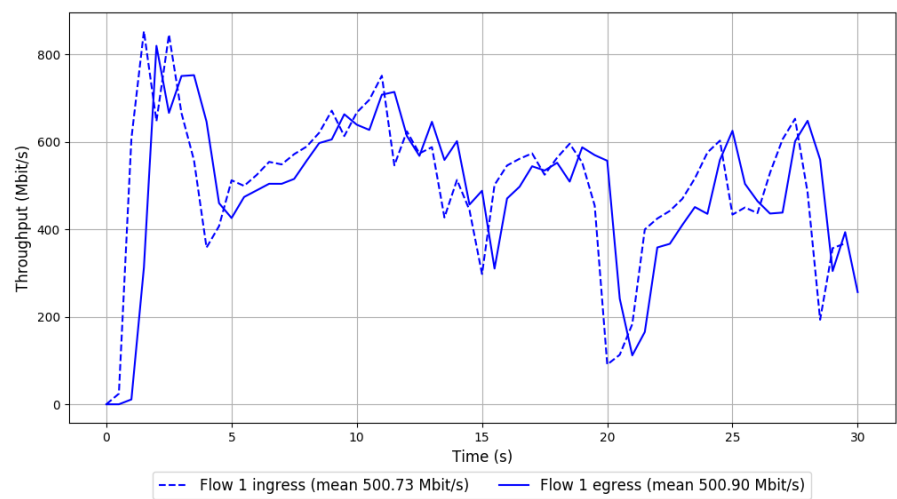
-- Flow 1:

Average throughput: 500.90 Mbit/s

95th percentile per-packet one-way delay: 266.893 ms

Loss rate: 0.55%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-06-30 01:25:55

End at: 2018-06-30 01:26:25

Local clock offset: 0.159 ms

Remote clock offset: 0.115 ms

Below is generated by plot.py at 2018-06-30 03:02:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 498.43 Mbit/s

95th percentile per-packet one-way delay: 289.276 ms

Loss rate: 0.85%

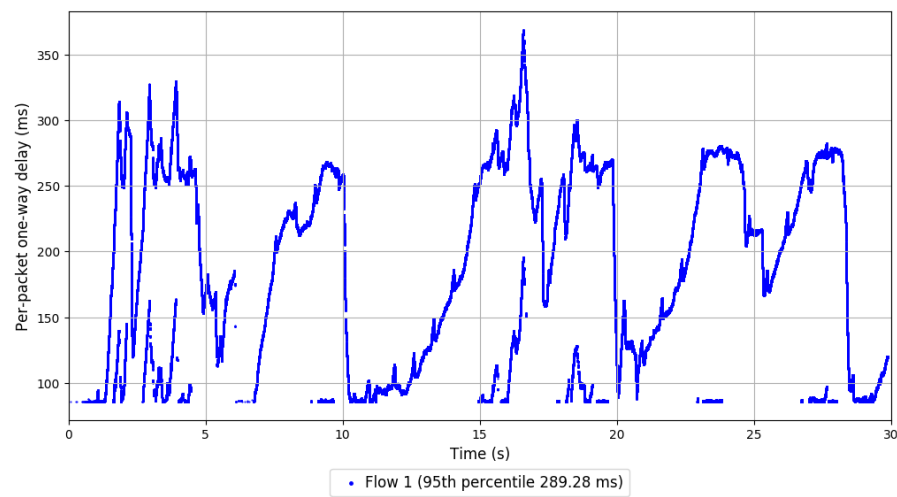
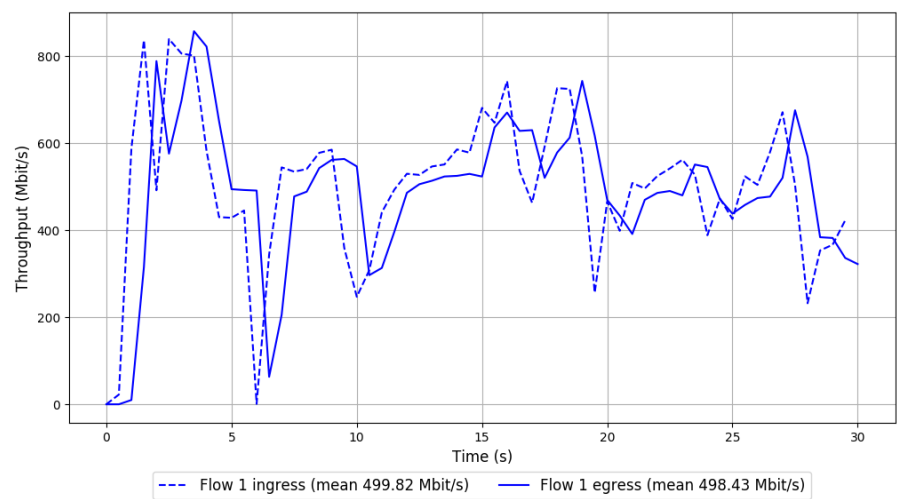
-- Flow 1:

Average throughput: 498.43 Mbit/s

95th percentile per-packet one-way delay: 289.276 ms

Loss rate: 0.85%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-06-30 01:47:07

End at: 2018-06-30 01:47:37

Local clock offset: 0.228 ms

Remote clock offset: 0.009 ms

Below is generated by plot.py at 2018-06-30 03:02:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 550.73 Mbit/s

95th percentile per-packet one-way delay: 267.532 ms

Loss rate: 0.93%

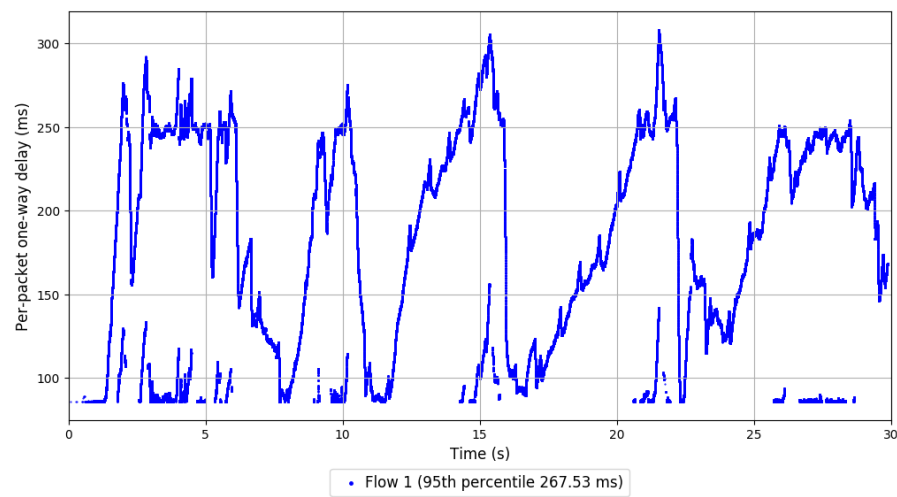
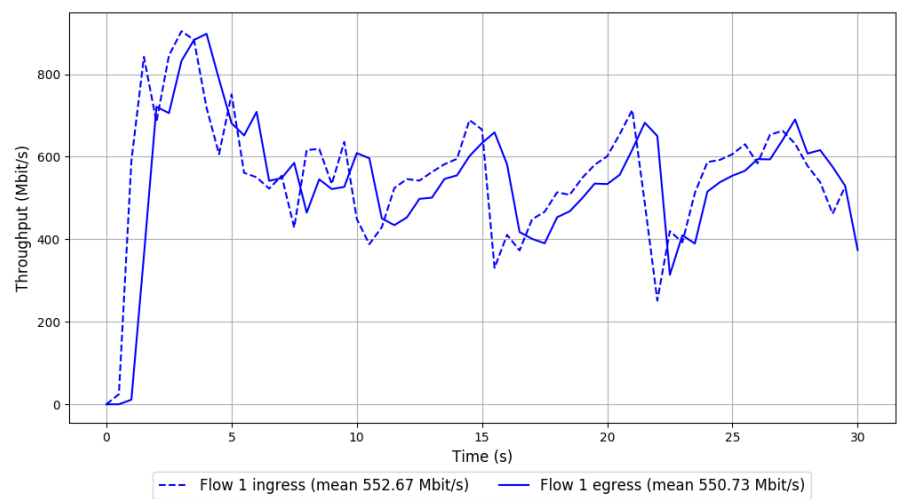
-- Flow 1:

Average throughput: 550.73 Mbit/s

95th percentile per-packet one-way delay: 267.532 ms

Loss rate: 0.93%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-06-30 02:07:54

End at: 2018-06-30 02:08:24

Local clock offset: 0.153 ms

Remote clock offset: -0.05 ms

Below is generated by plot.py at 2018-06-30 03:07:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 616.28 Mbit/s

95th percentile per-packet one-way delay: 302.400 ms

Loss rate: 6.64%

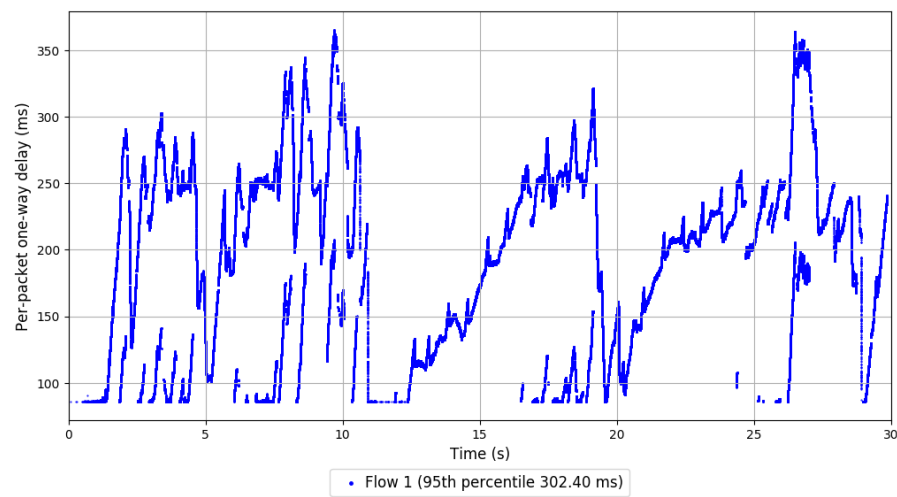
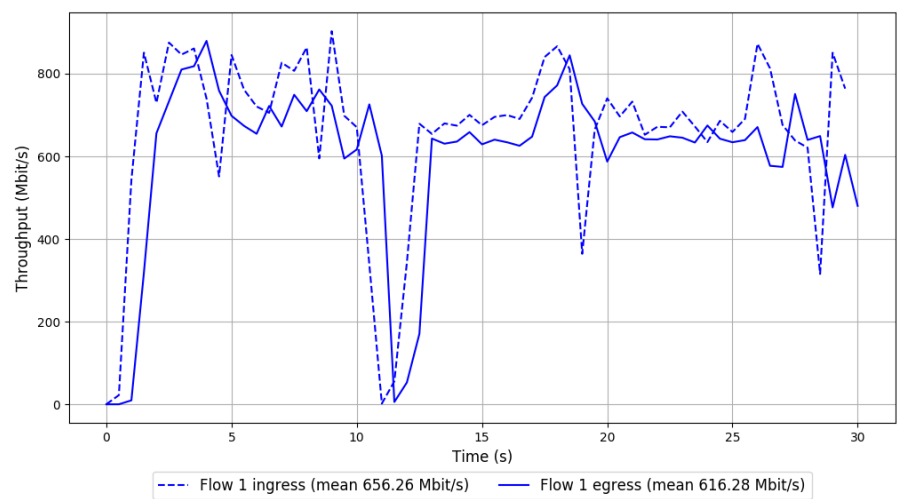
-- Flow 1:

Average throughput: 616.28 Mbit/s

95th percentile per-packet one-way delay: 302.400 ms

Loss rate: 6.64%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-06-30 02:29:03

End at: 2018-06-30 02:29:33

Local clock offset: 0.024 ms

Remote clock offset: -0.098 ms

Below is generated by plot.py at 2018-06-30 03:07:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 179.07 Mbit/s

95th percentile per-packet one-way delay: 307.689 ms

Loss rate: 2.79%

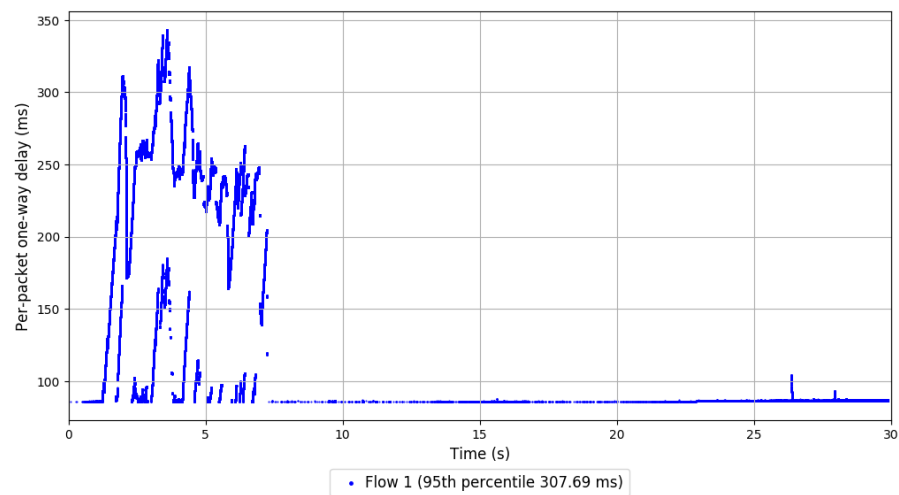
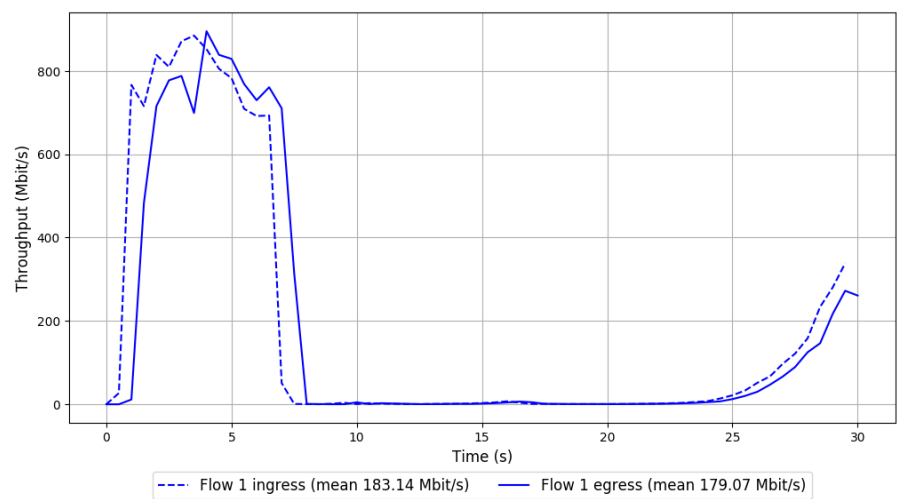
-- Flow 1:

Average throughput: 179.07 Mbit/s

95th percentile per-packet one-way delay: 307.689 ms

Loss rate: 2.79%

Run 10: Report of FillP — Data Link



Run 1: Statistics of FillP-Sheep

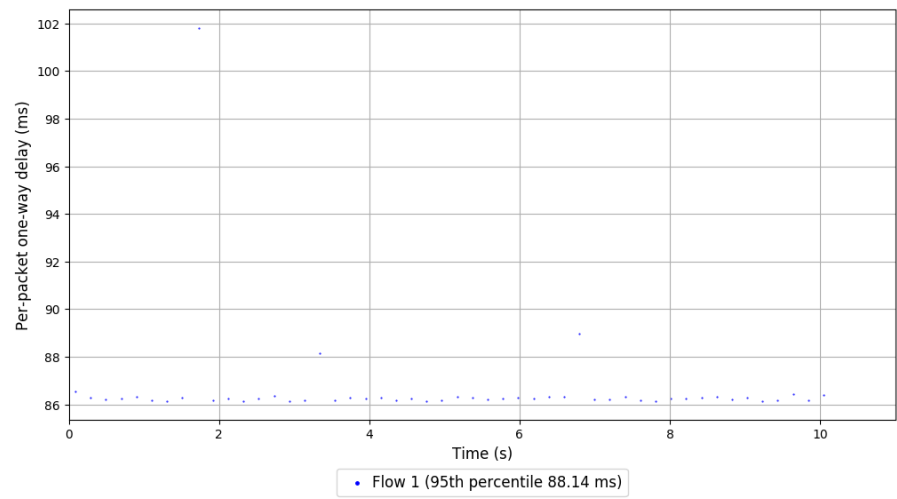
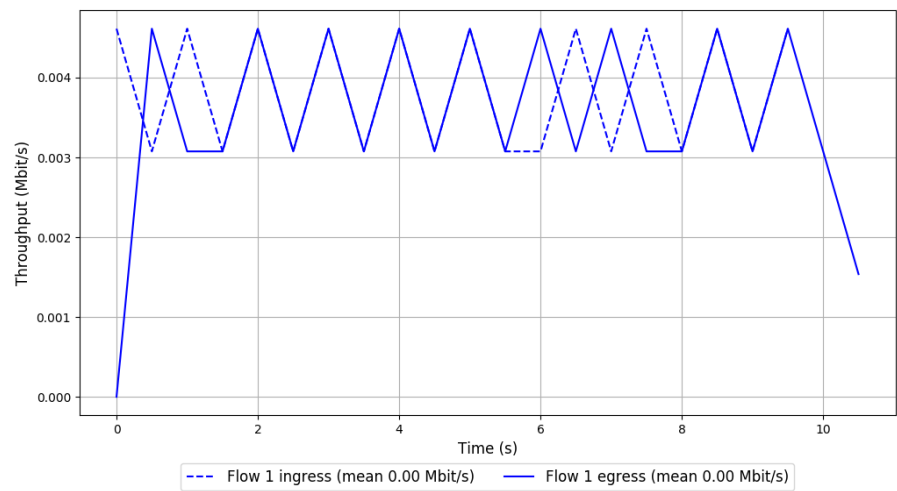
Start at: 2018-06-29 23:13:40

End at: 2018-06-29 23:14:10

Local clock offset: 0.167 ms

Remote clock offset: -0.087 ms

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

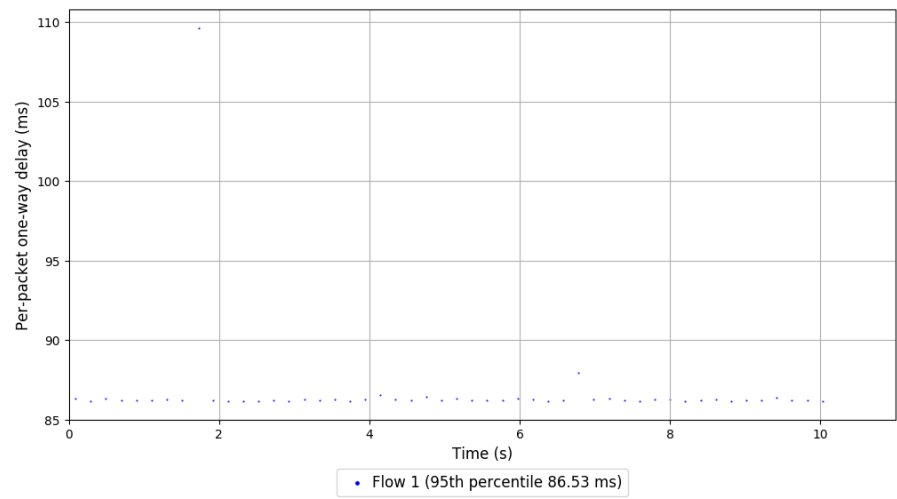
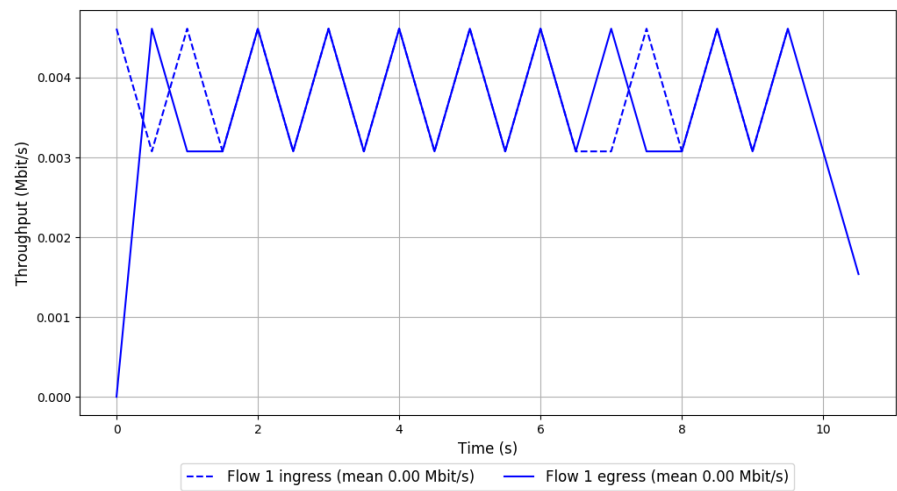
Start at: 2018-06-29 23:34:44

End at: 2018-06-29 23:35:14

Local clock offset: 0.333 ms

Remote clock offset: -0.011 ms

Run 2: Report of FillP-Sheep — Data Link



Run 3: Statistics of FillP-Sheep

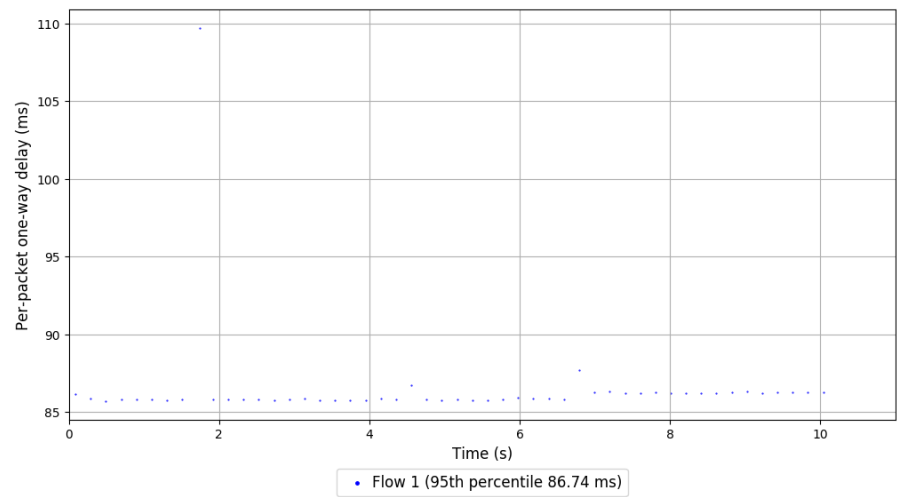
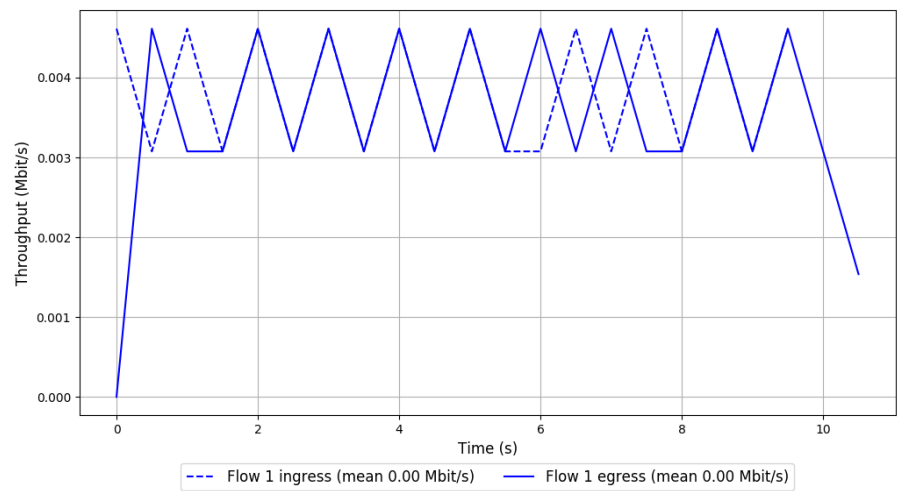
Start at: 2018-06-29 23:55:59

End at: 2018-06-29 23:56:29

Local clock offset: -0.148 ms

Remote clock offset: -0.002 ms

Run 3: Report of FillP-Sheep — Data Link



Run 4: Statistics of FillP-Sheep

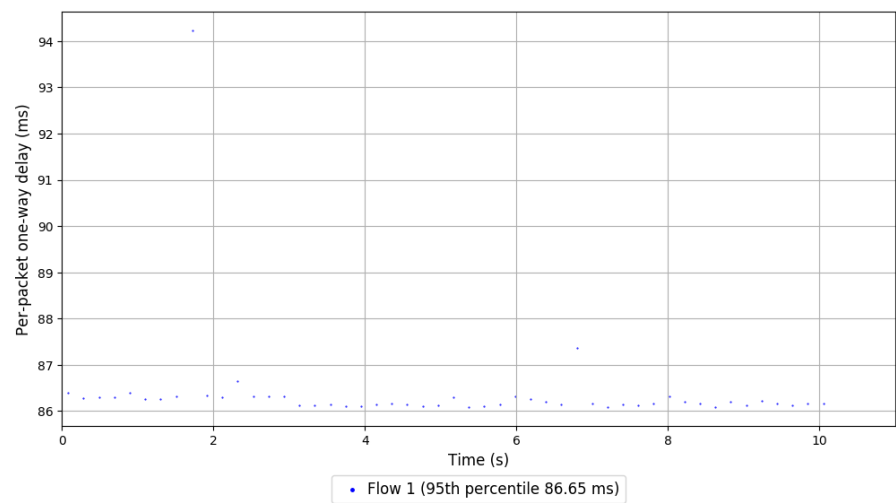
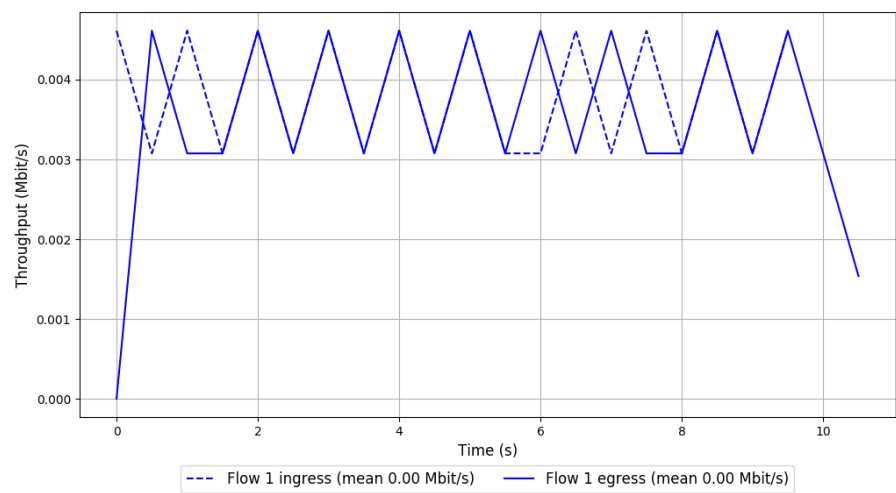
Start at: 2018-06-30 00:16:53

End at: 2018-06-30 00:17:23

Local clock offset: 0.185 ms

Remote clock offset: 0.112 ms

Run 4: Report of FillP-Sheep — Data Link



Run 5: Statistics of FillP-Sheep

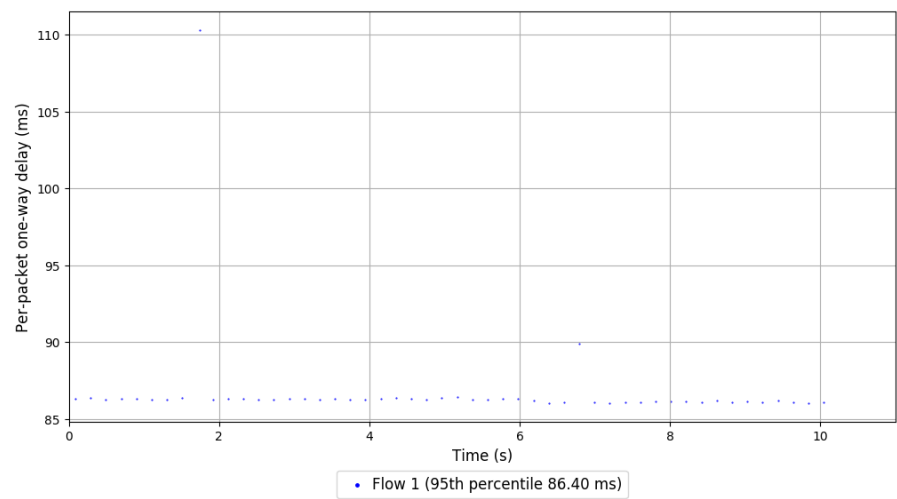
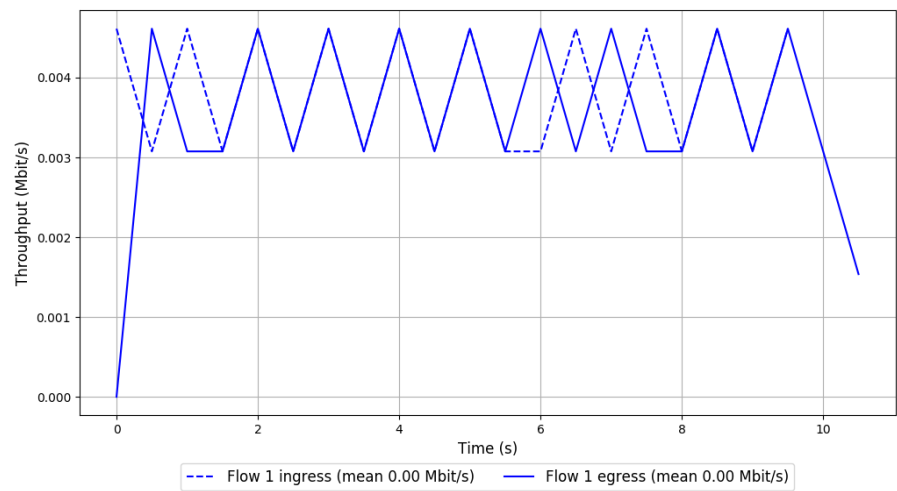
Start at: 2018-06-30 00:38:10

End at: 2018-06-30 00:38:40

Local clock offset: 0.133 ms

Remote clock offset: 0.175 ms

Run 5: Report of FillP-Sheep — Data Link



Run 6: Statistics of FillP-Sheep

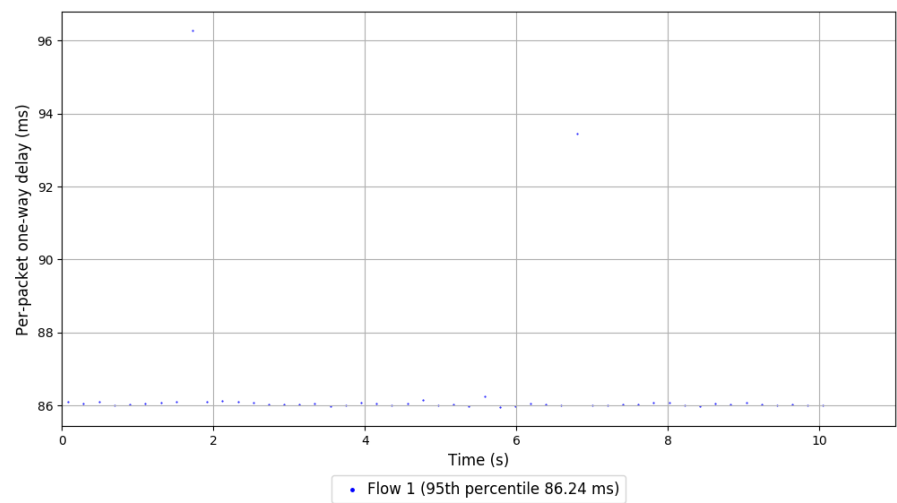
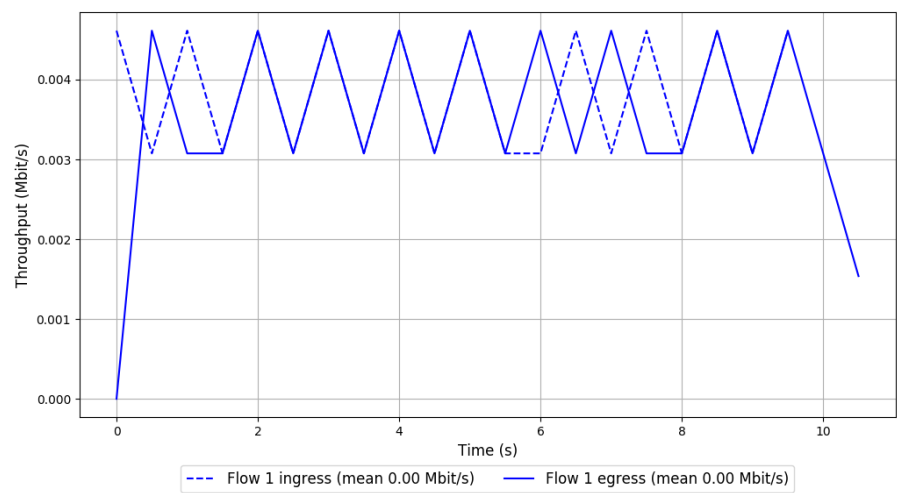
Start at: 2018-06-30 00:59:08

End at: 2018-06-30 00:59:38

Local clock offset: 0.12 ms

Remote clock offset: 0.29 ms

Run 6: Report of FillP-Sheep — Data Link



Run 7: Statistics of FillP-Sheep

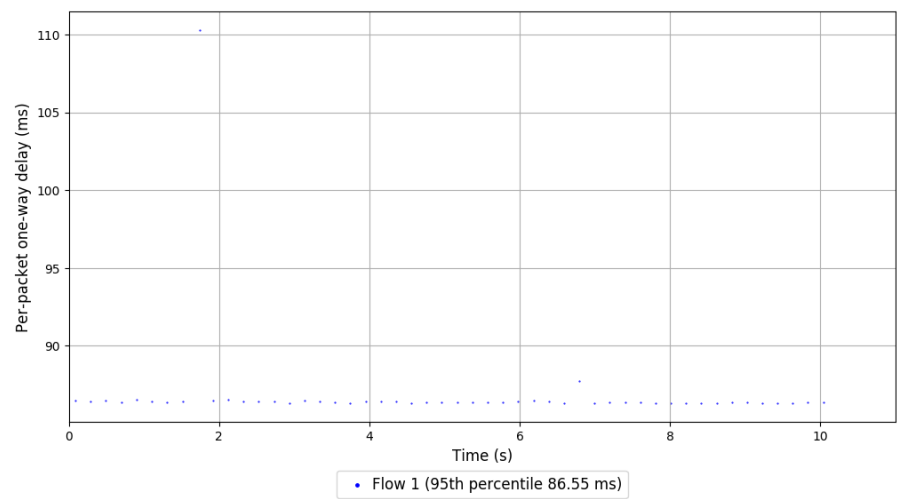
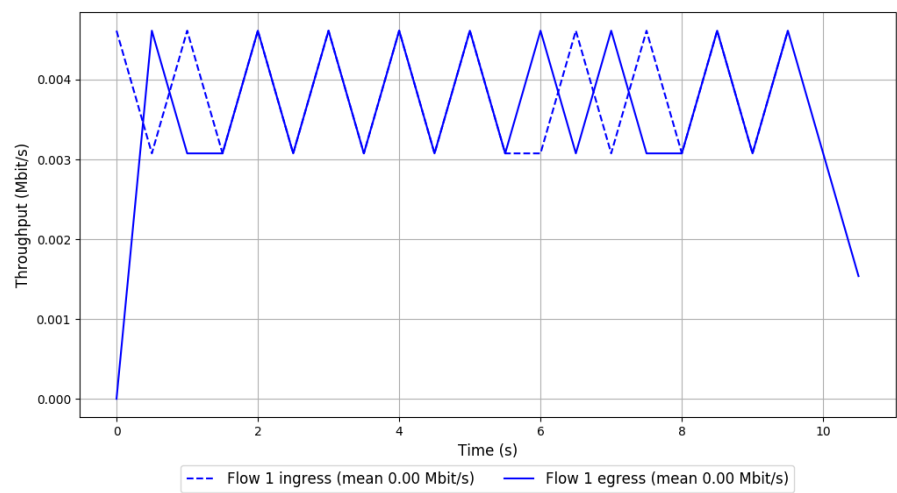
Start at: 2018-06-30 01:20:07

End at: 2018-06-30 01:20:37

Local clock offset: 0.25 ms

Remote clock offset: 0.149 ms

Run 7: Report of FillP-Sheep — Data Link



Run 8: Statistics of FillP-Sheep

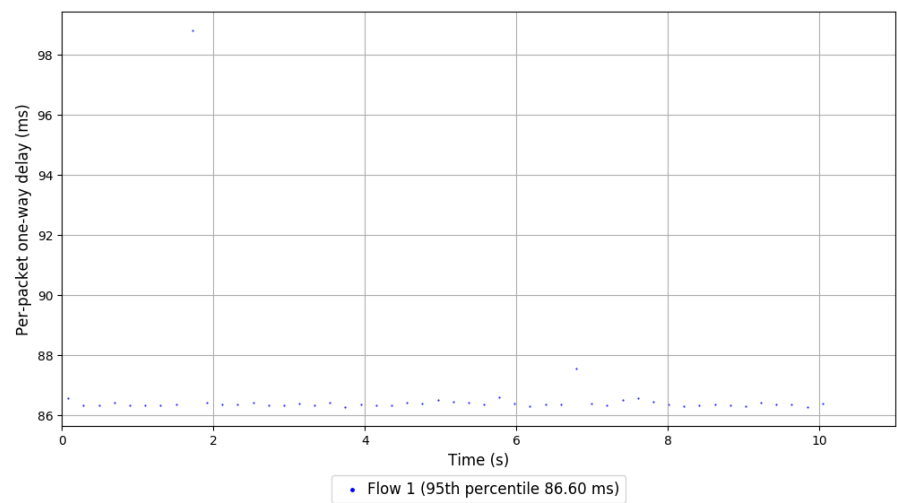
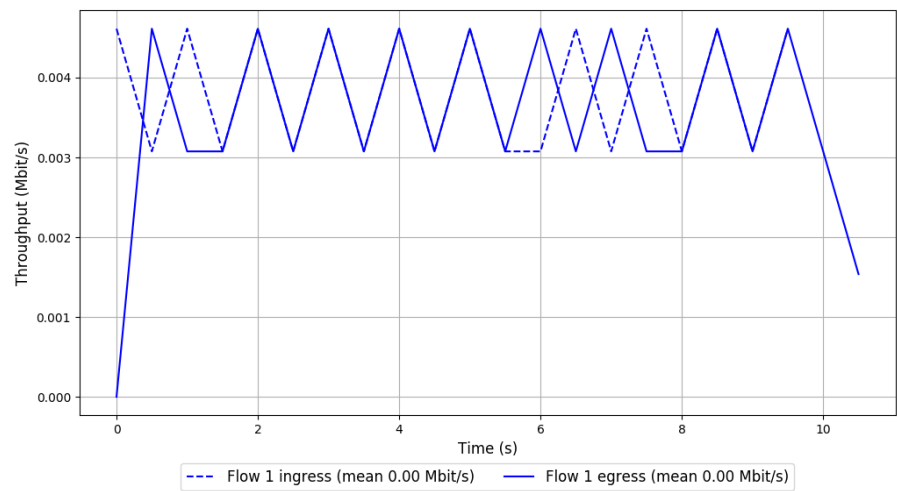
Start at: 2018-06-30 01:41:22

End at: 2018-06-30 01:41:52

Local clock offset: 0.258 ms

Remote clock offset: 0.042 ms

Run 8: Report of FillP-Sheep — Data Link



Run 9: Statistics of FillP-Sheep

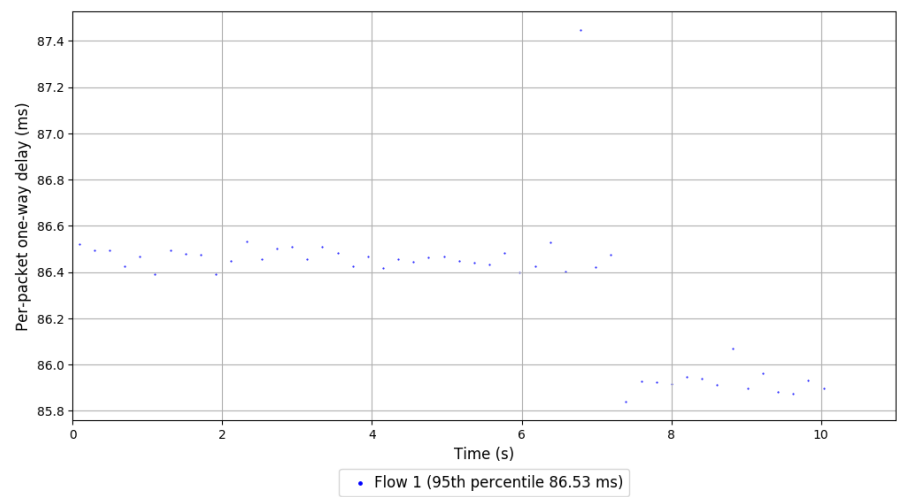
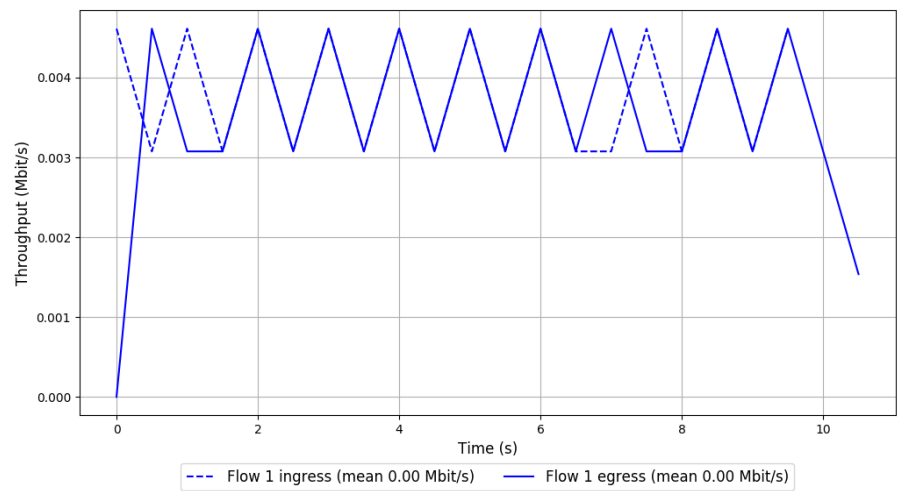
Start at: 2018-06-30 02:02:08

End at: 2018-06-30 02:02:38

Local clock offset: 0.16 ms

Remote clock offset: -0.031 ms

Run 9: Report of FillP-Sheep — Data Link



Run 10: Statistics of FillP-Sheep

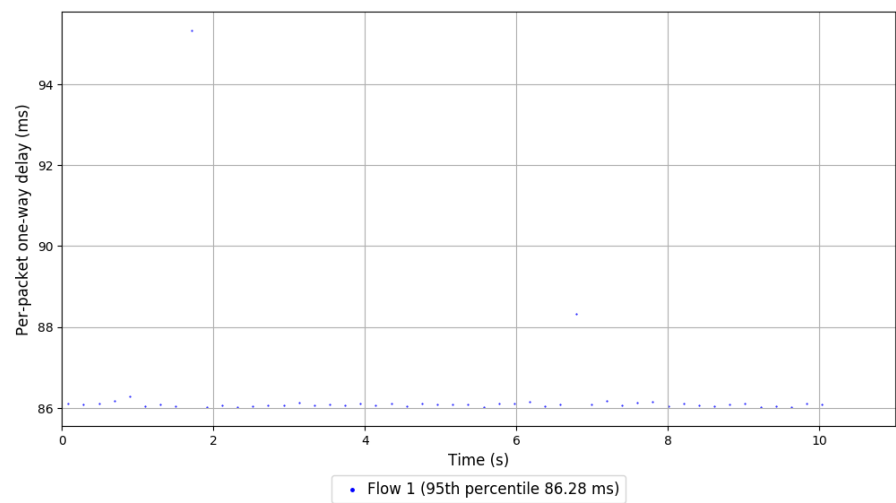
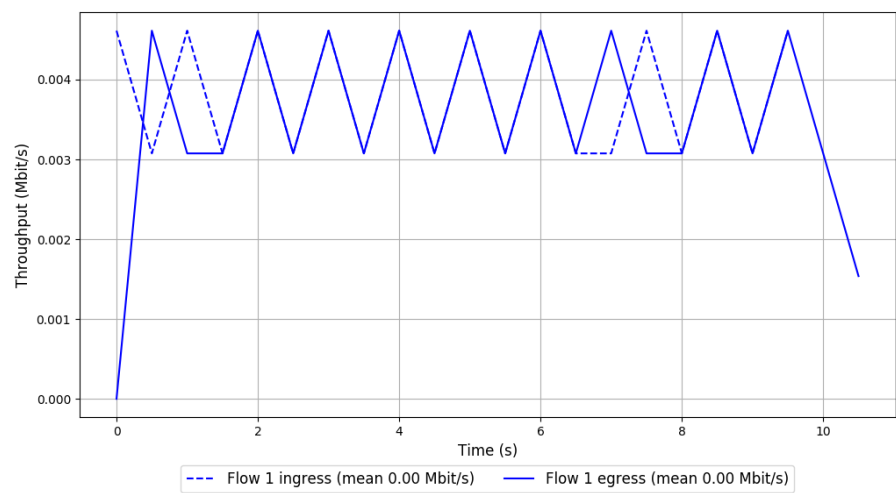
Start at: 2018-06-30 02:23:17

End at: 2018-06-30 02:23:47

Local clock offset: 0.259 ms

Remote clock offset: -0.055 ms

Run 10: Report of FillP-Sheep — Data Link



Run 1: Statistics of Indigo

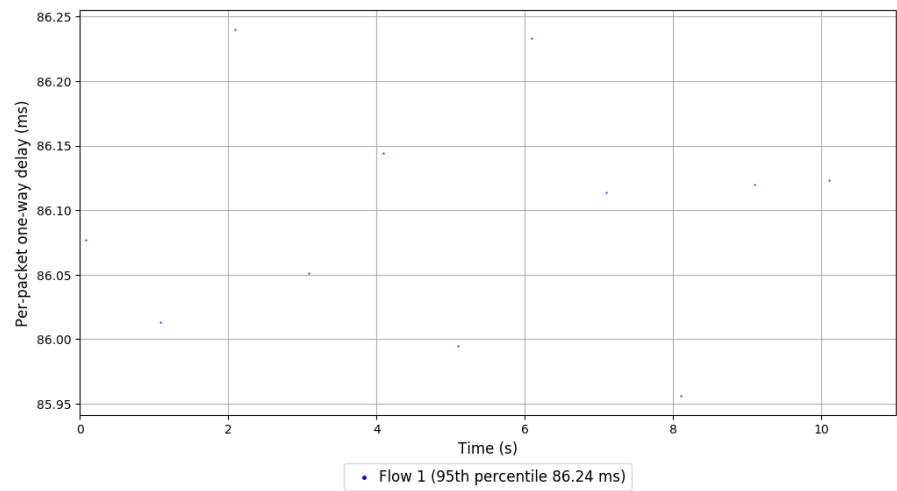
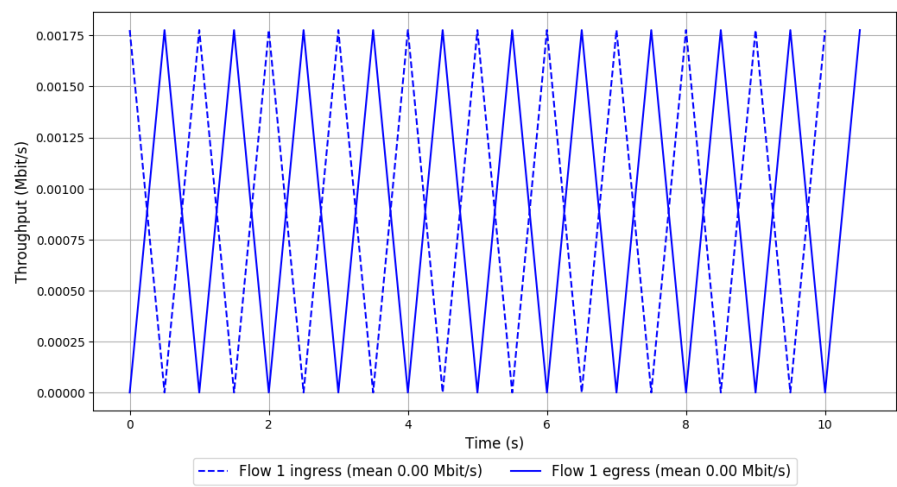
Start at: 2018-06-29 23:08:35

End at: 2018-06-29 23:09:05

Local clock offset: 0.044 ms

Remote clock offset: -0.029 ms

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2018-06-29 23:29:30

End at: 2018-06-29 23:30:00

Local clock offset: 0.17 ms

Remote clock offset: -0.001 ms

Below is generated by plot.py at 2018-06-30 03:07:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 80.20 Mbit/s

95th percentile per-packet one-way delay: 89.032 ms

Loss rate: 0.66%

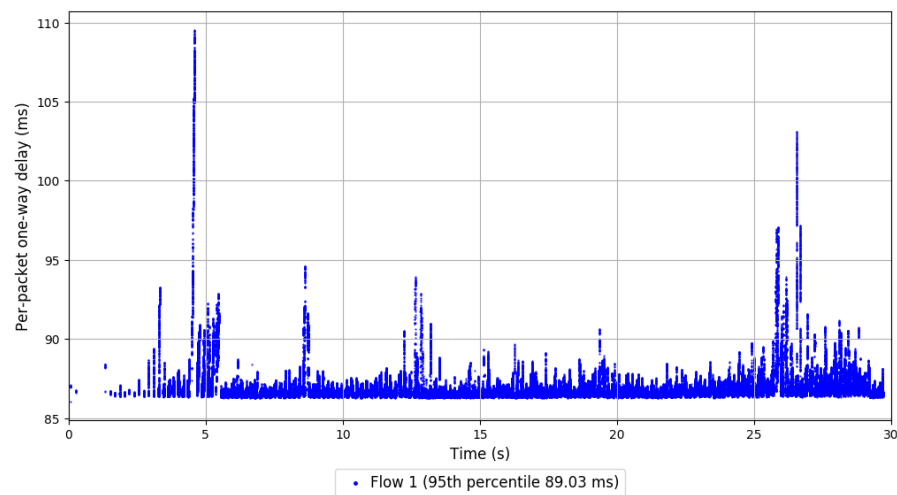
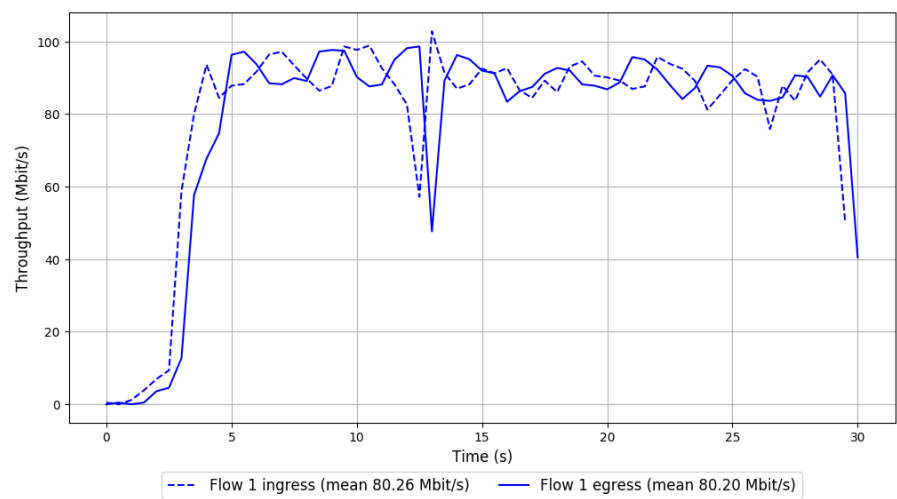
-- Flow 1:

Average throughput: 80.20 Mbit/s

95th percentile per-packet one-way delay: 89.032 ms

Loss rate: 0.66%

Run 2: Report of Indigo — Data Link

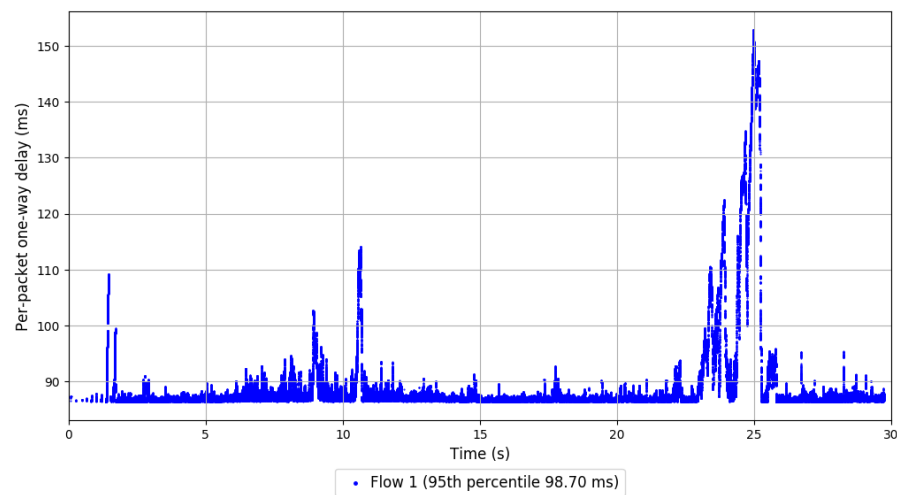
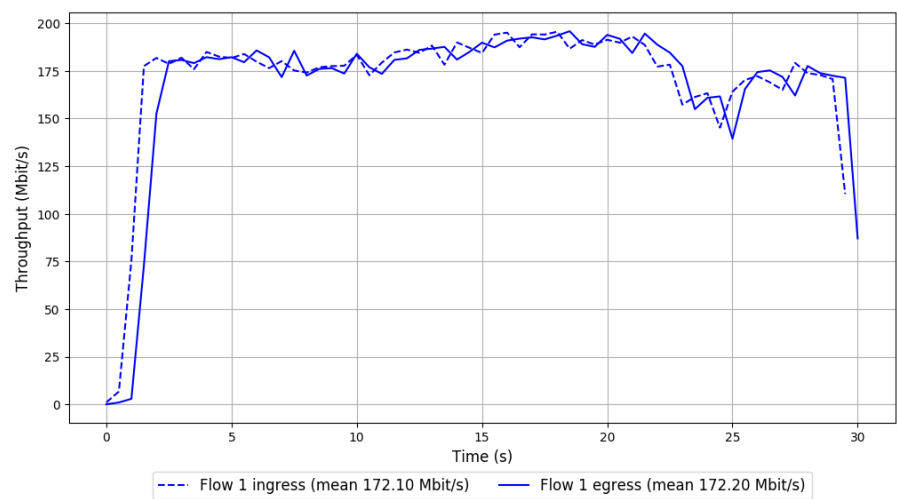


Run 3: Statistics of Indigo

Start at: 2018-06-29 23:50:38
End at: 2018-06-29 23:51:08
Local clock offset: 0.197 ms
Remote clock offset: -0.062 ms

Below is generated by plot.py at 2018-06-30 03:07:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 172.20 Mbit/s
95th percentile per-packet one-way delay: 98.698 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 172.20 Mbit/s
95th percentile per-packet one-way delay: 98.698 ms
Loss rate: 0.52%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-06-30 00:11:30

End at: 2018-06-30 00:12:00

Local clock offset: -0.042 ms

Remote clock offset: 0.097 ms

Below is generated by plot.py at 2018-06-30 03:07:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 183.21 Mbit/s

95th percentile per-packet one-way delay: 89.919 ms

Loss rate: 0.61%

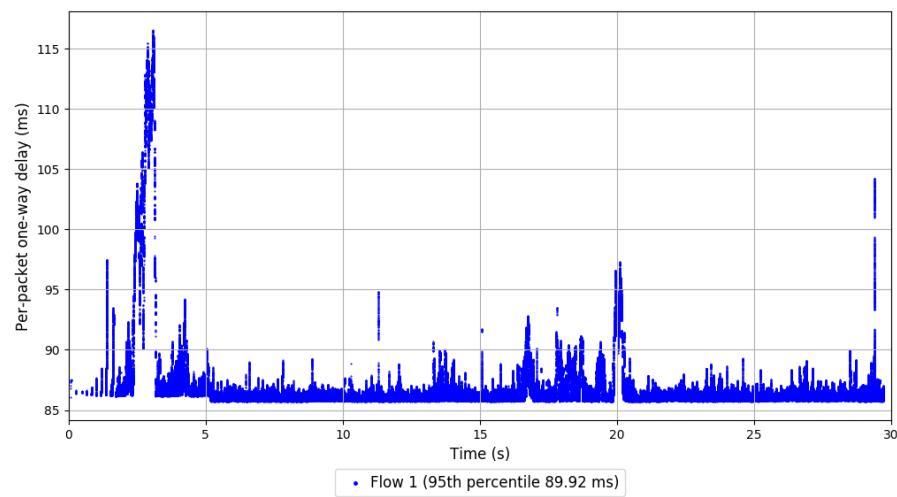
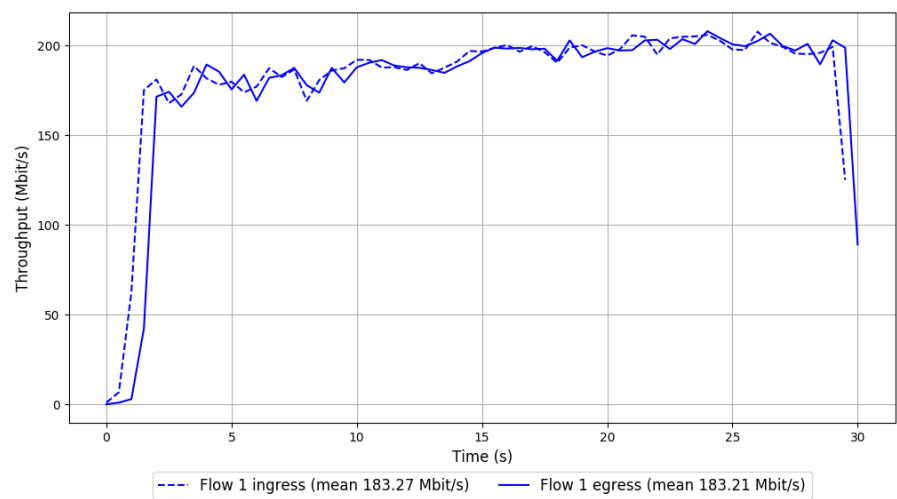
-- Flow 1:

Average throughput: 183.21 Mbit/s

95th percentile per-packet one-way delay: 89.919 ms

Loss rate: 0.61%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-06-30 00:32:45

End at: 2018-06-30 00:33:15

Local clock offset: 0.053 ms

Remote clock offset: 0.2 ms

Below is generated by plot.py at 2018-06-30 03:07:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 185.43 Mbit/s

95th percentile per-packet one-way delay: 88.884 ms

Loss rate: 0.60%

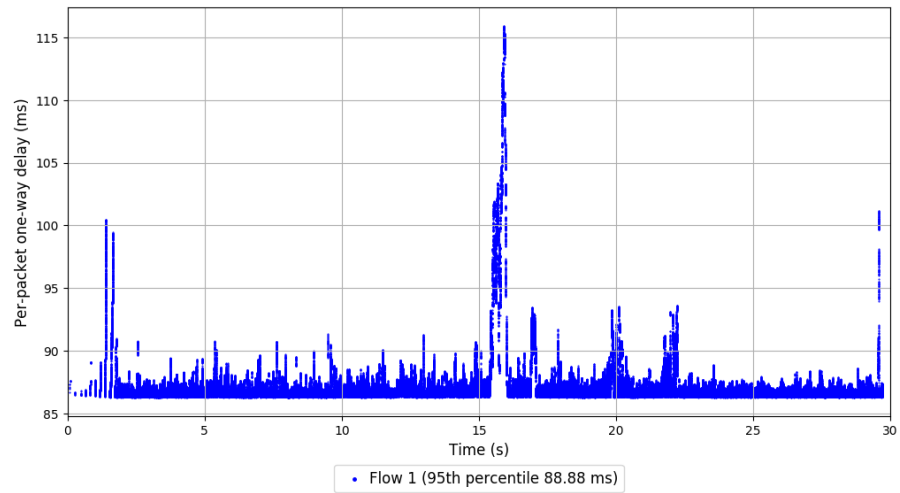
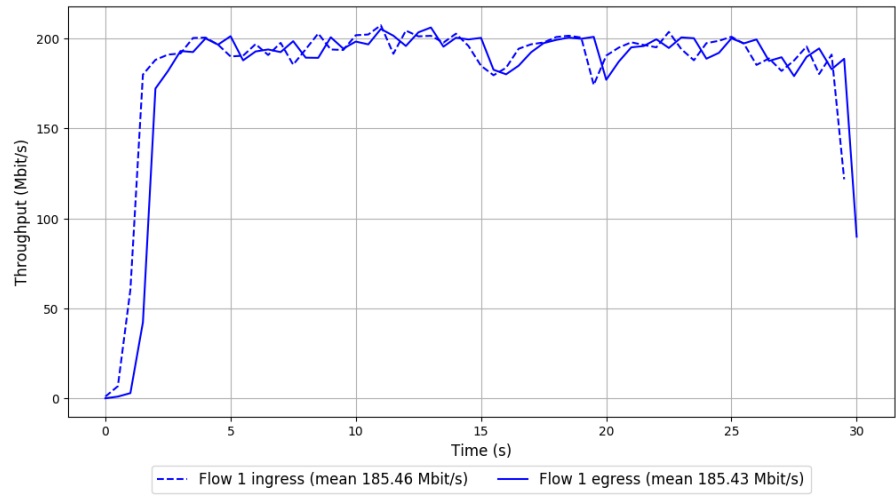
-- Flow 1:

Average throughput: 185.43 Mbit/s

95th percentile per-packet one-way delay: 88.884 ms

Loss rate: 0.60%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2018-06-30 00:53:47

End at: 2018-06-30 00:54:17

Local clock offset: 0.197 ms

Remote clock offset: 0.274 ms

Below is generated by plot.py at 2018-06-30 03:07:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 179.59 Mbit/s

95th percentile per-packet one-way delay: 88.663 ms

Loss rate: 0.62%

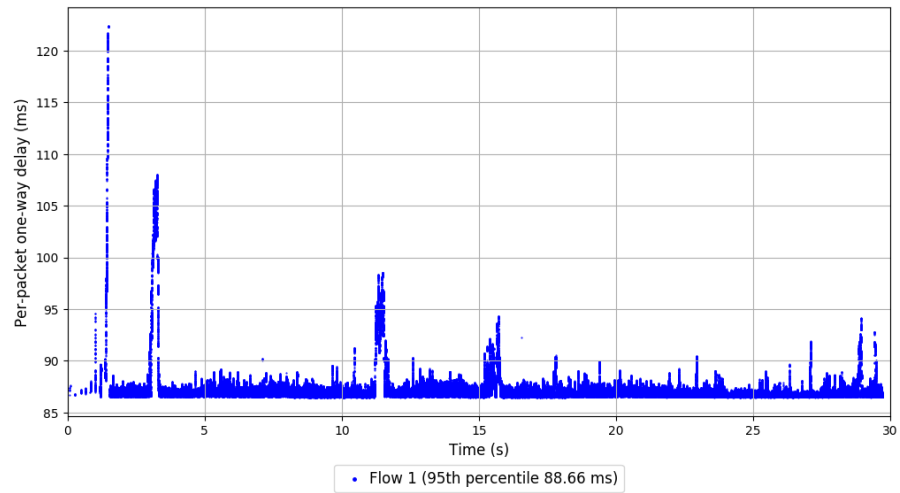
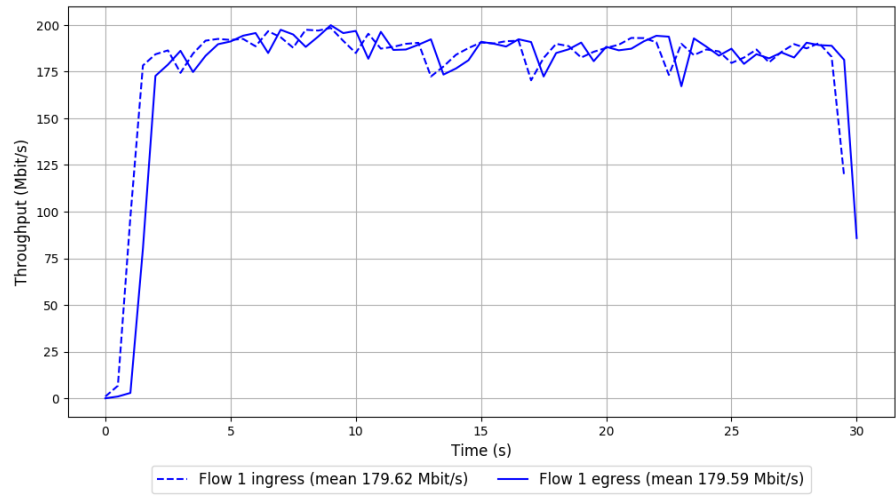
-- Flow 1:

Average throughput: 179.59 Mbit/s

95th percentile per-packet one-way delay: 88.663 ms

Loss rate: 0.62%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2018-06-30 01:14:49

End at: 2018-06-30 01:15:19

Local clock offset: 0.179 ms

Remote clock offset: 0.243 ms

Below is generated by plot.py at 2018-06-30 03:07:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 178.47 Mbit/s

95th percentile per-packet one-way delay: 88.819 ms

Loss rate: 0.61%

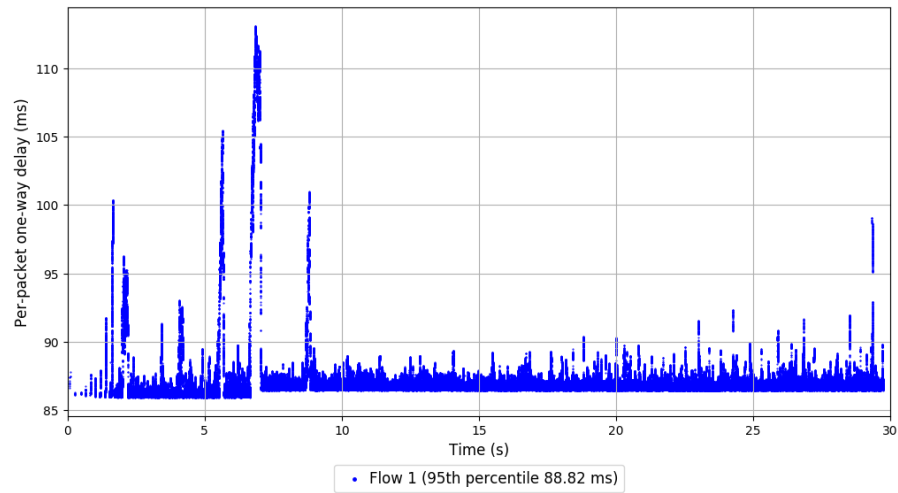
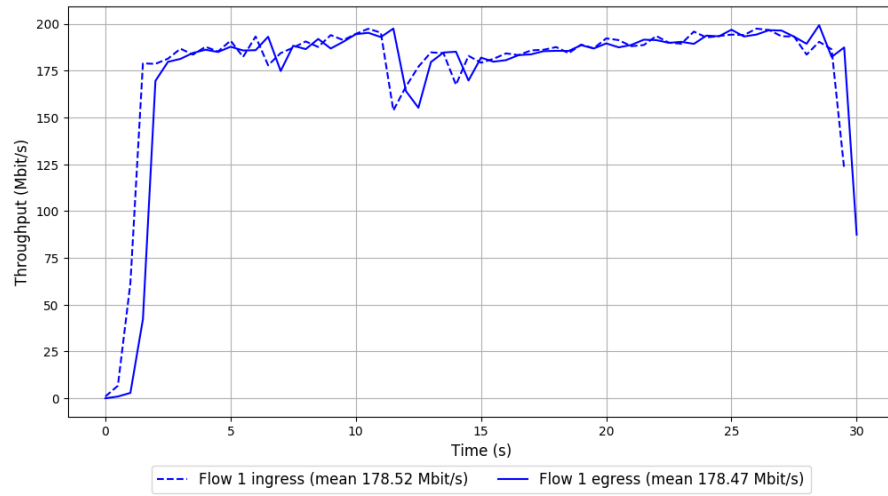
-- Flow 1:

Average throughput: 178.47 Mbit/s

95th percentile per-packet one-way delay: 88.819 ms

Loss rate: 0.61%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2018-06-30 01:35:55

End at: 2018-06-30 01:36:26

Local clock offset: 0.215 ms

Remote clock offset: 0.004 ms

Below is generated by plot.py at 2018-06-30 03:07:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 162.57 Mbit/s

95th percentile per-packet one-way delay: 121.340 ms

Loss rate: 0.61%

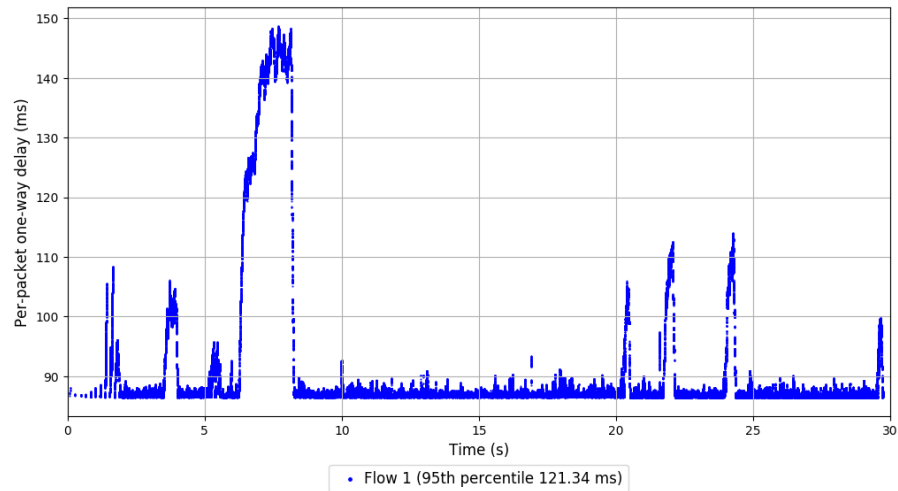
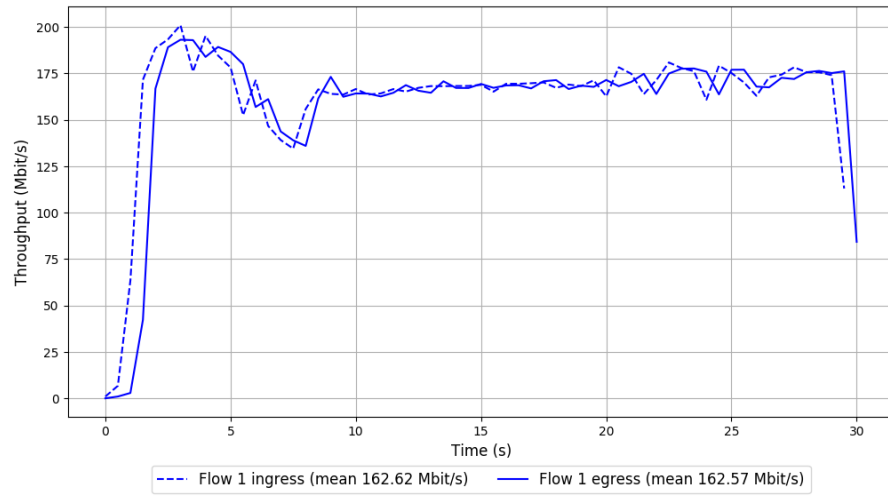
-- Flow 1:

Average throughput: 162.57 Mbit/s

95th percentile per-packet one-way delay: 121.340 ms

Loss rate: 0.61%

Run 8: Report of Indigo — Data Link

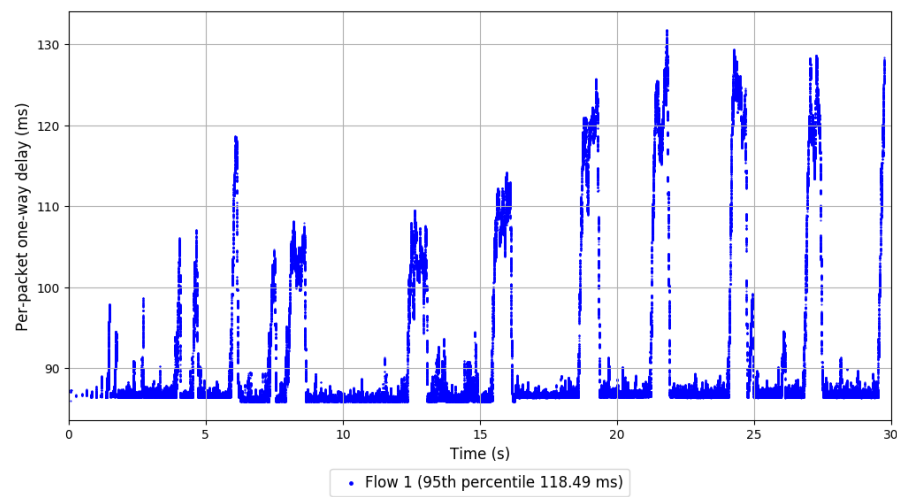
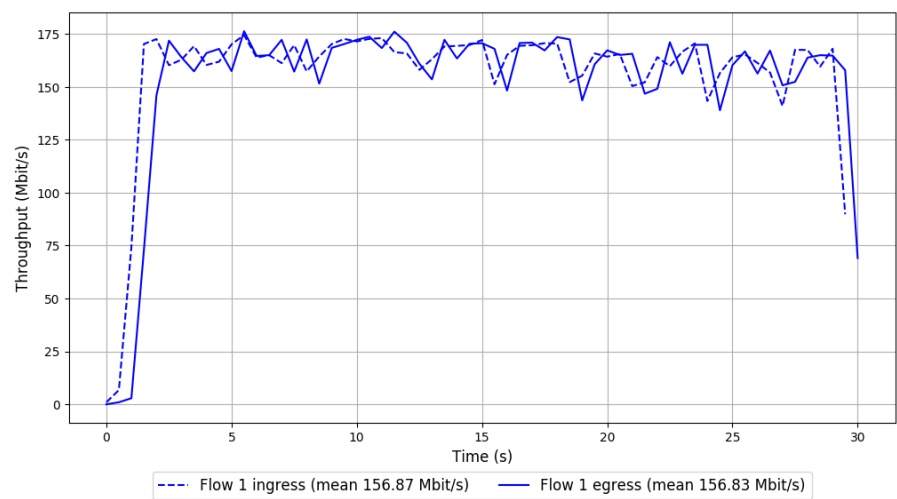


Run 9: Statistics of Indigo

Start at: 2018-06-30 01:56:59
End at: 2018-06-30 01:57:29
Local clock offset: 0.224 ms
Remote clock offset: -0.033 ms

Below is generated by plot.py at 2018-06-30 03:07:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 156.83 Mbit/s
95th percentile per-packet one-way delay: 118.493 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 156.83 Mbit/s
95th percentile per-packet one-way delay: 118.493 ms
Loss rate: 0.60%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-06-30 02:18:04

End at: 2018-06-30 02:18:34

Local clock offset: 0.477 ms

Remote clock offset: -0.046 ms

Below is generated by plot.py at 2018-06-30 03:07:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 172.19 Mbit/s

95th percentile per-packet one-way delay: 107.289 ms

Loss rate: 0.57%

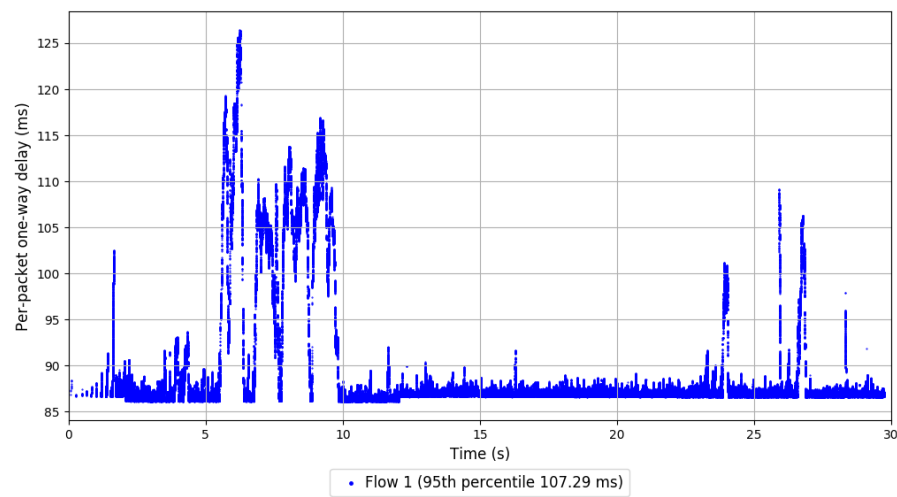
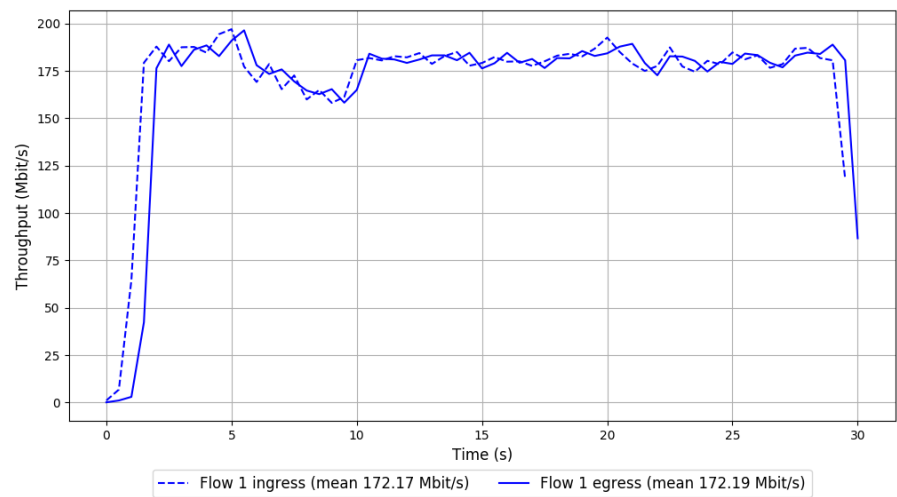
-- Flow 1:

Average throughput: 172.19 Mbit/s

95th percentile per-packet one-way delay: 107.289 ms

Loss rate: 0.57%

Run 10: Report of Indigo — Data Link

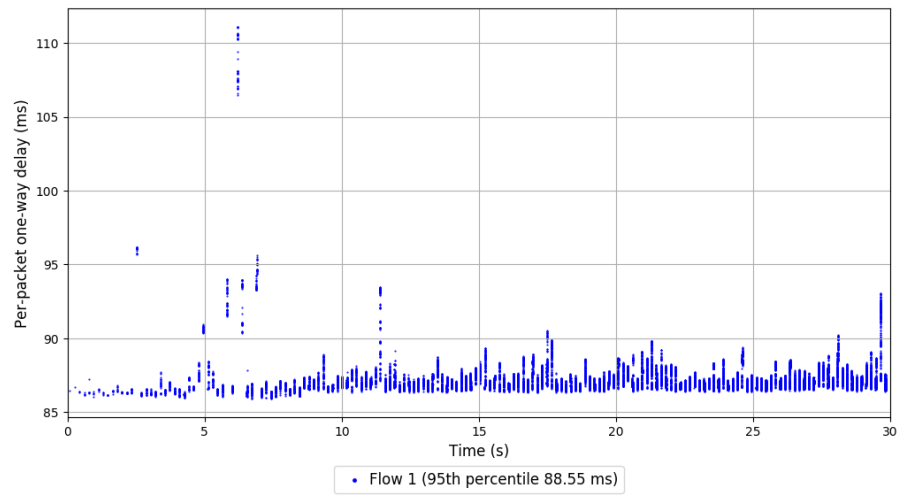
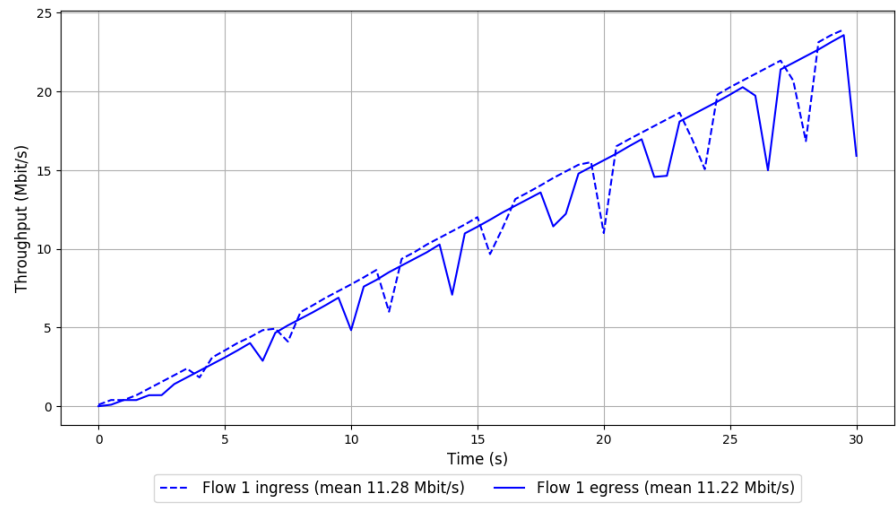


Run 1: Statistics of LEDBAT

Start at: 2018-06-29 23:07:27
End at: 2018-06-29 23:07:57
Local clock offset: 0.16 ms
Remote clock offset: -0.025 ms

Below is generated by plot.py at 2018-06-30 03:07:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 11.22 Mbit/s
95th percentile per-packet one-way delay: 88.548 ms
Loss rate: 1.19%
-- Flow 1:
Average throughput: 11.22 Mbit/s
95th percentile per-packet one-way delay: 88.548 ms
Loss rate: 1.19%

Run 1: Report of LEDBAT — Data Link

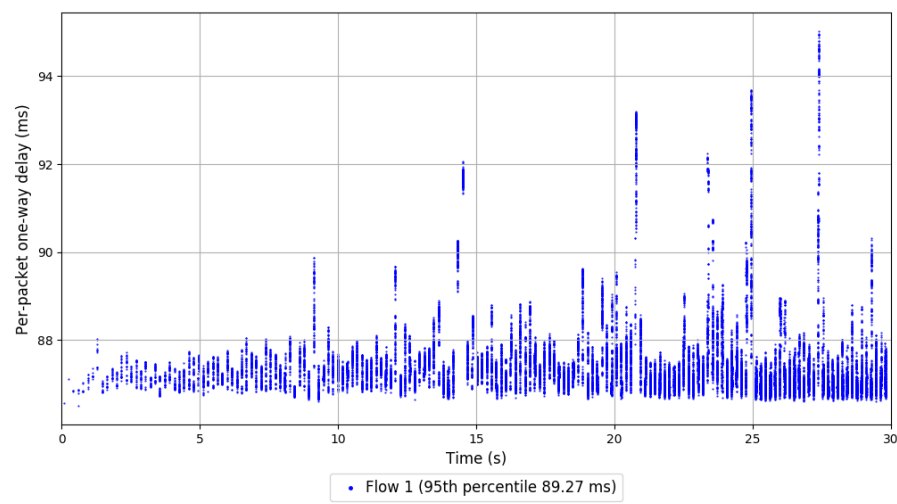
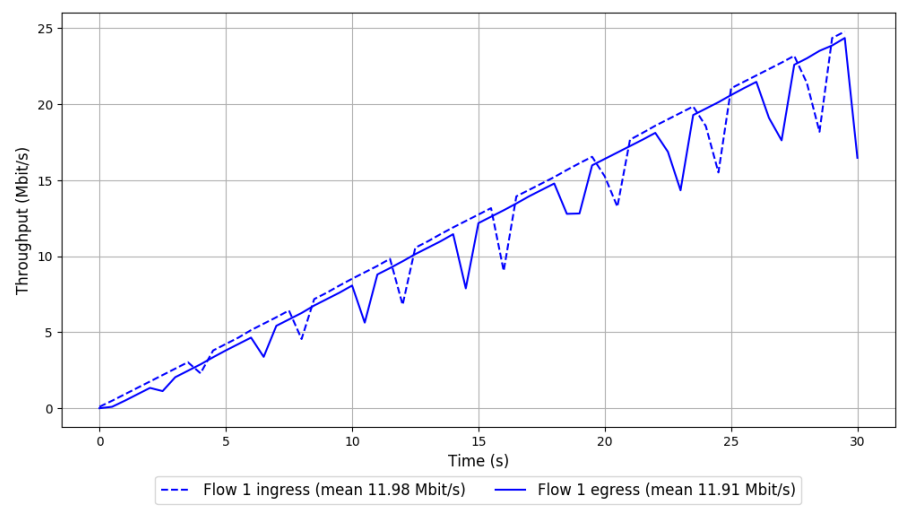


Run 2: Statistics of LEDBAT

Start at: 2018-06-29 23:28:22
End at: 2018-06-29 23:28:53
Local clock offset: 0.467 ms
Remote clock offset: -0.045 ms

Below is generated by plot.py at 2018-06-30 03:07:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 11.91 Mbit/s
95th percentile per-packet one-way delay: 89.265 ms
Loss rate: 1.16%
-- Flow 1:
Average throughput: 11.91 Mbit/s
95th percentile per-packet one-way delay: 89.265 ms
Loss rate: 1.16%

Run 2: Report of LEDBAT — Data Link

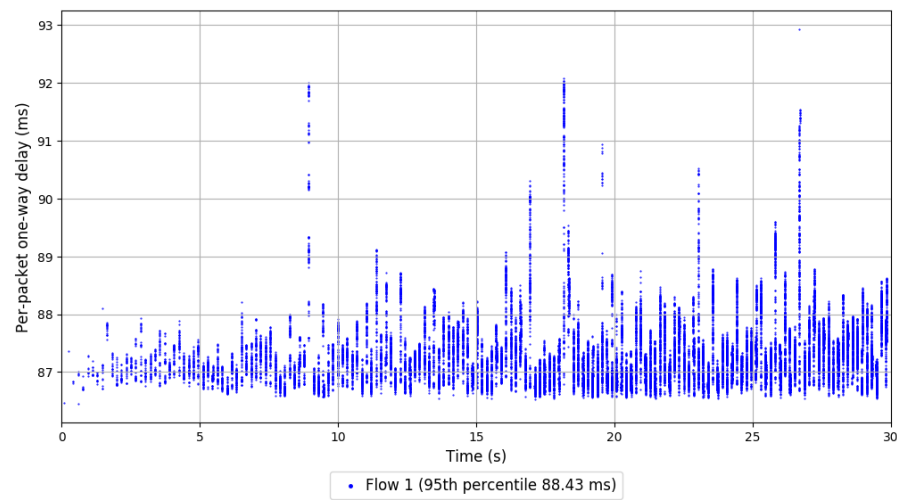
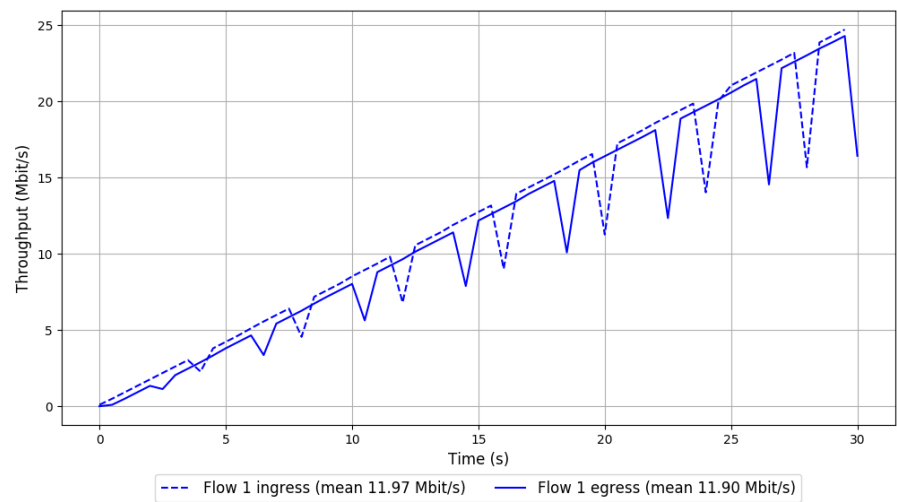


Run 3: Statistics of LEDBAT

Start at: 2018-06-29 23:49:30
End at: 2018-06-29 23:50:00
Local clock offset: 0.358 ms
Remote clock offset: -0.008 ms

Below is generated by plot.py at 2018-06-30 03:07:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 11.90 Mbit/s
95th percentile per-packet one-way delay: 88.426 ms
Loss rate: 1.16%
-- Flow 1:
Average throughput: 11.90 Mbit/s
95th percentile per-packet one-way delay: 88.426 ms
Loss rate: 1.16%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-06-30 00:10:23

End at: 2018-06-30 00:10:53

Local clock offset: 0.234 ms

Remote clock offset: 0.074 ms

Below is generated by plot.py at 2018-06-30 03:07:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.86 Mbit/s

95th percentile per-packet one-way delay: 89.529 ms

Loss rate: 1.16%

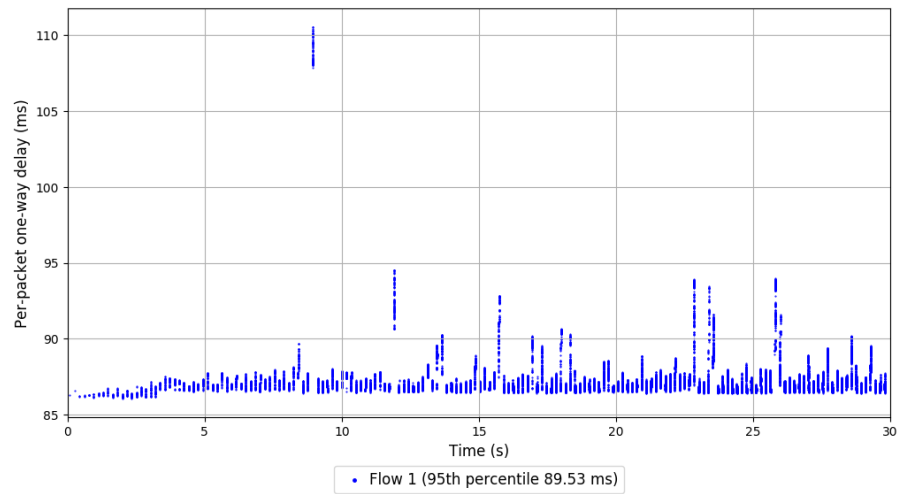
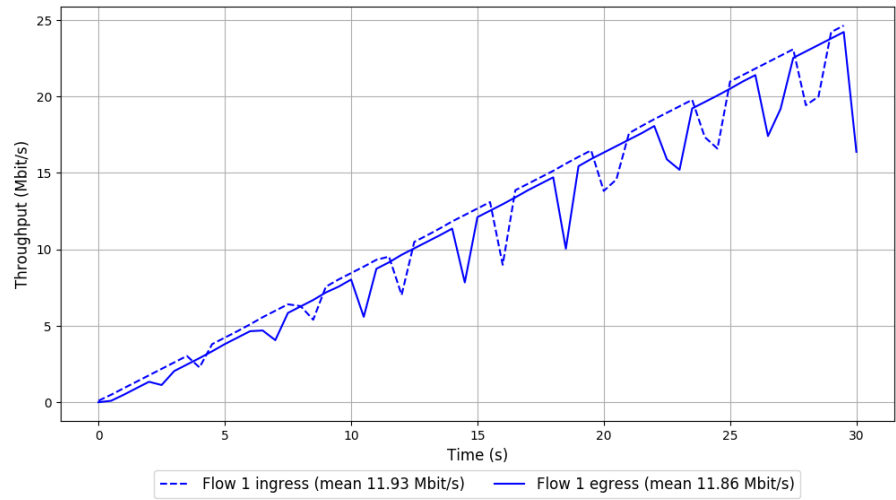
-- Flow 1:

Average throughput: 11.86 Mbit/s

95th percentile per-packet one-way delay: 89.529 ms

Loss rate: 1.16%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-06-30 00:31:38

End at: 2018-06-30 00:32:08

Local clock offset: 0.275 ms

Remote clock offset: 0.186 ms

Below is generated by plot.py at 2018-06-30 03:07:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.90 Mbit/s

95th percentile per-packet one-way delay: 88.681 ms

Loss rate: 1.16%

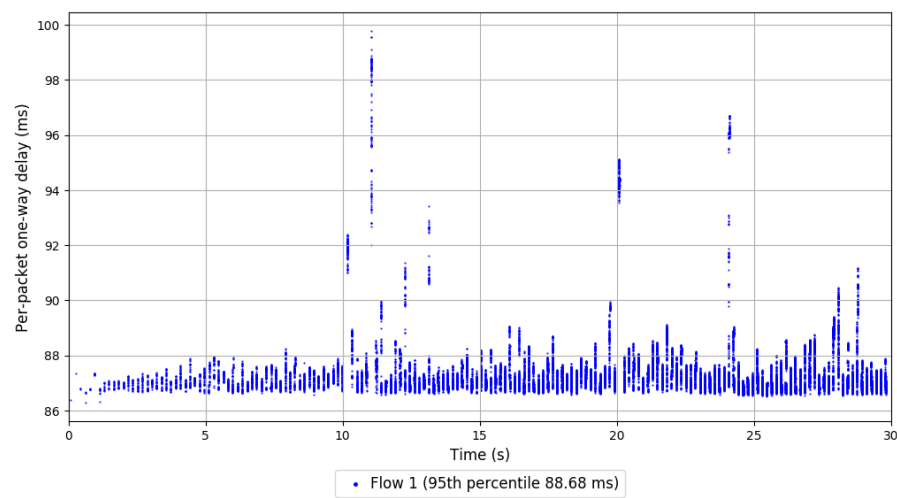
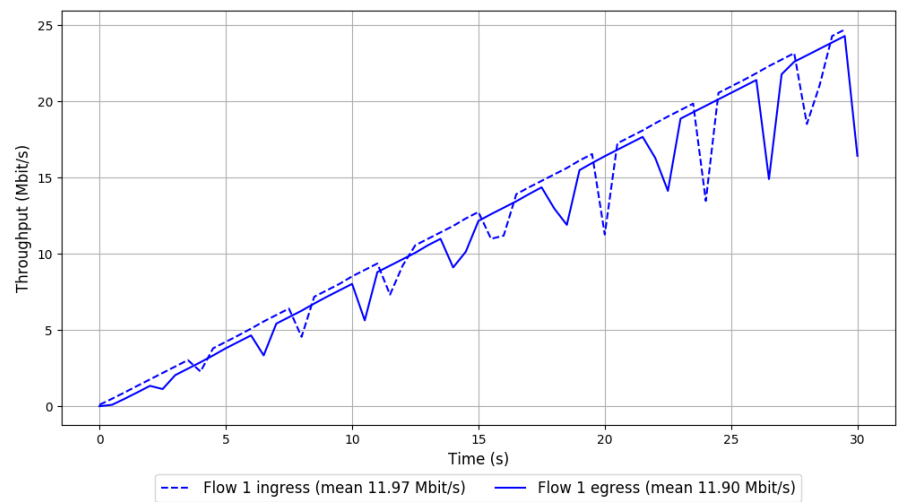
-- Flow 1:

Average throughput: 11.90 Mbit/s

95th percentile per-packet one-way delay: 88.681 ms

Loss rate: 1.16%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-06-30 00:52:39

End at: 2018-06-30 00:53:09

Local clock offset: 0.153 ms

Remote clock offset: 0.299 ms

Below is generated by plot.py at 2018-06-30 03:07:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.85 Mbit/s

95th percentile per-packet one-way delay: 88.513 ms

Loss rate: 1.16%

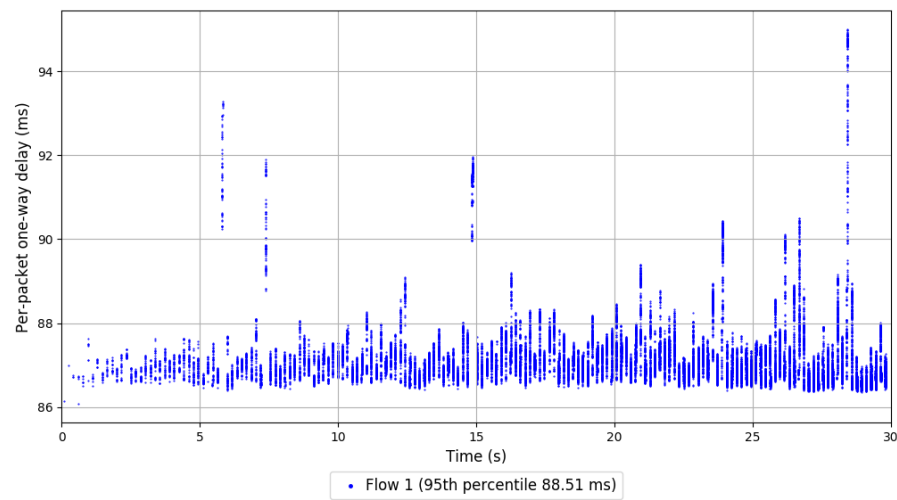
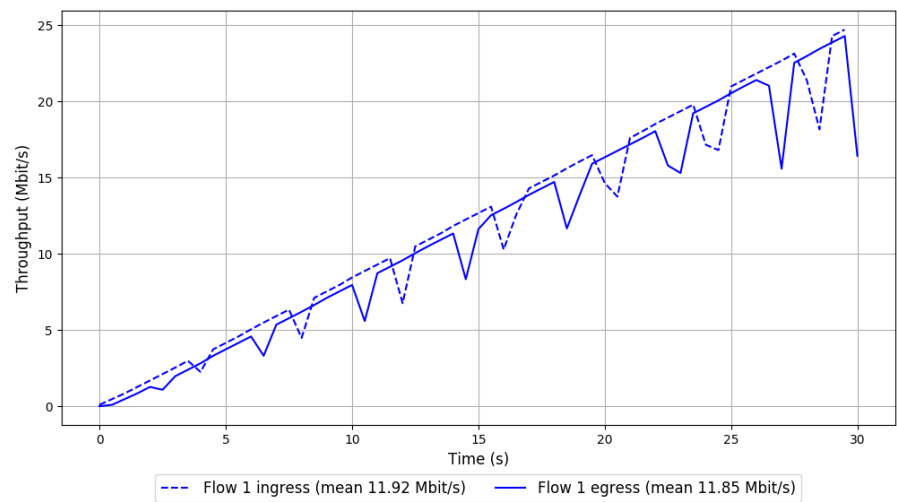
-- Flow 1:

Average throughput: 11.85 Mbit/s

95th percentile per-packet one-way delay: 88.513 ms

Loss rate: 1.16%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-06-30 01:13:41

End at: 2018-06-30 01:14:11

Local clock offset: 0.127 ms

Remote clock offset: 0.217 ms

Below is generated by plot.py at 2018-06-30 03:07:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.88 Mbit/s

95th percentile per-packet one-way delay: 88.166 ms

Loss rate: 1.16%

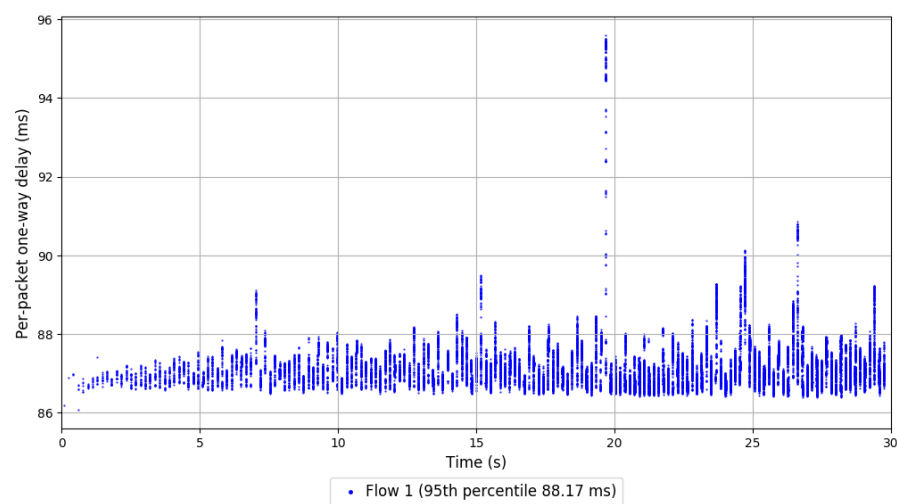
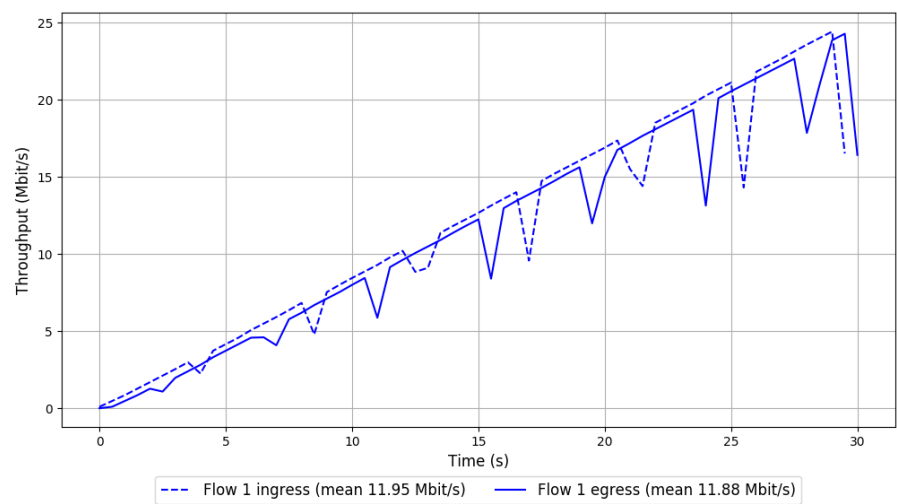
-- Flow 1:

Average throughput: 11.88 Mbit/s

95th percentile per-packet one-way delay: 88.166 ms

Loss rate: 1.16%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-06-30 01:34:48

End at: 2018-06-30 01:35:18

Local clock offset: 0.239 ms

Remote clock offset: 0.045 ms

Below is generated by plot.py at 2018-06-30 03:07:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.91 Mbit/s

95th percentile per-packet one-way delay: 88.910 ms

Loss rate: 1.16%

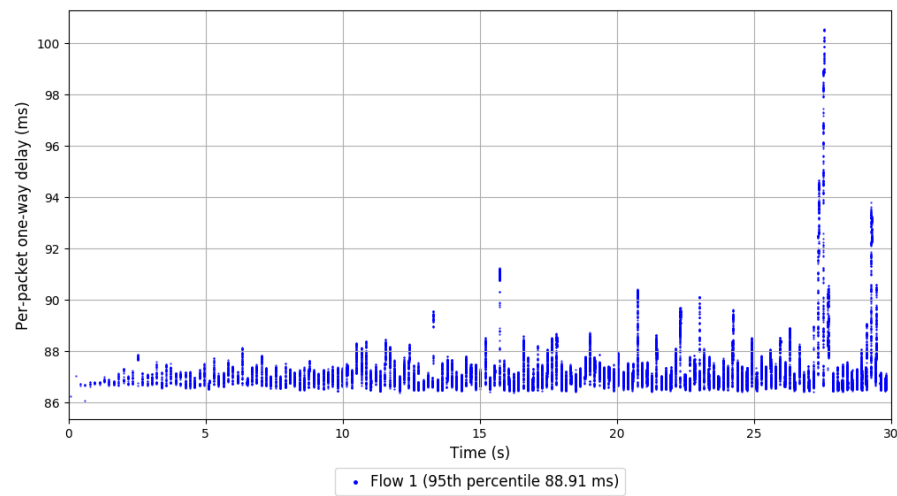
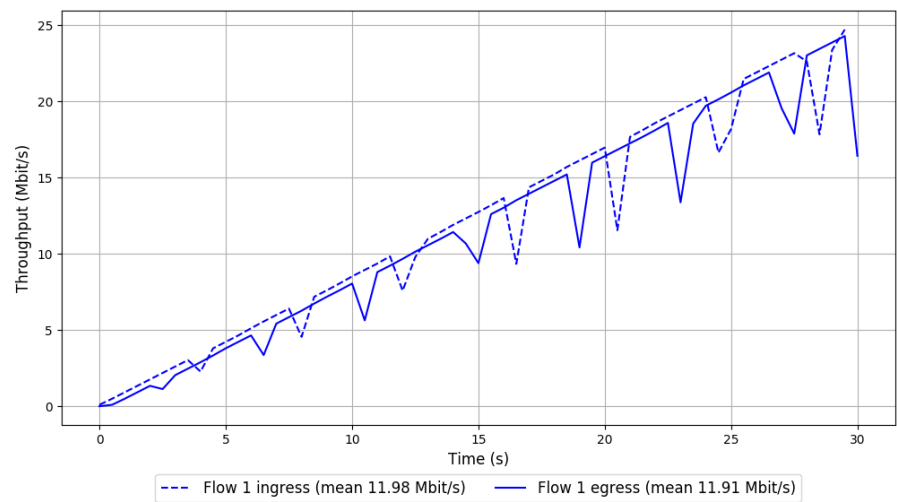
-- Flow 1:

Average throughput: 11.91 Mbit/s

95th percentile per-packet one-way delay: 88.910 ms

Loss rate: 1.16%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-06-30 01:55:51

End at: 2018-06-30 01:56:21

Local clock offset: 0.069 ms

Remote clock offset: 0.012 ms

Below is generated by plot.py at 2018-06-30 03:07:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.63 Mbit/s

95th percentile per-packet one-way delay: 88.045 ms

Loss rate: 1.17%

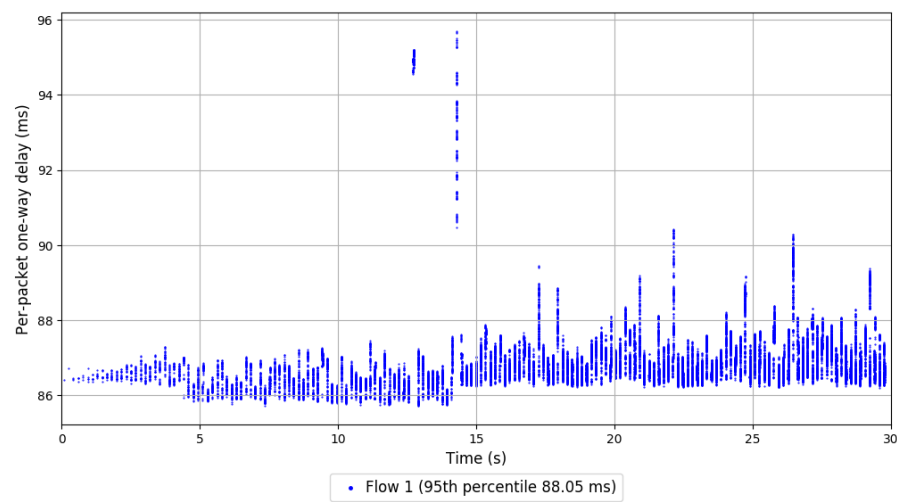
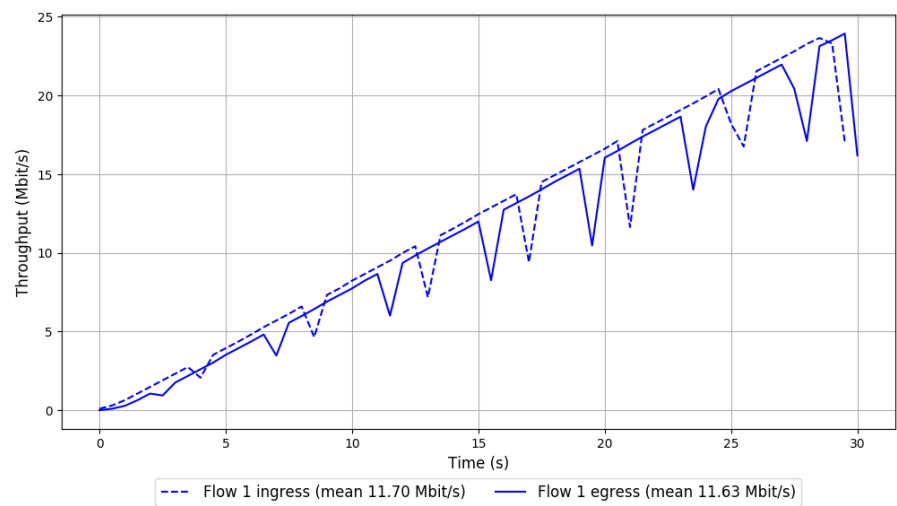
-- Flow 1:

Average throughput: 11.63 Mbit/s

95th percentile per-packet one-way delay: 88.045 ms

Loss rate: 1.17%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-06-30 02:16:56

End at: 2018-06-30 02:17:26

Local clock offset: 0.379 ms

Remote clock offset: -0.046 ms

Below is generated by plot.py at 2018-06-30 03:07:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.91 Mbit/s

95th percentile per-packet one-way delay: 88.558 ms

Loss rate: 1.16%

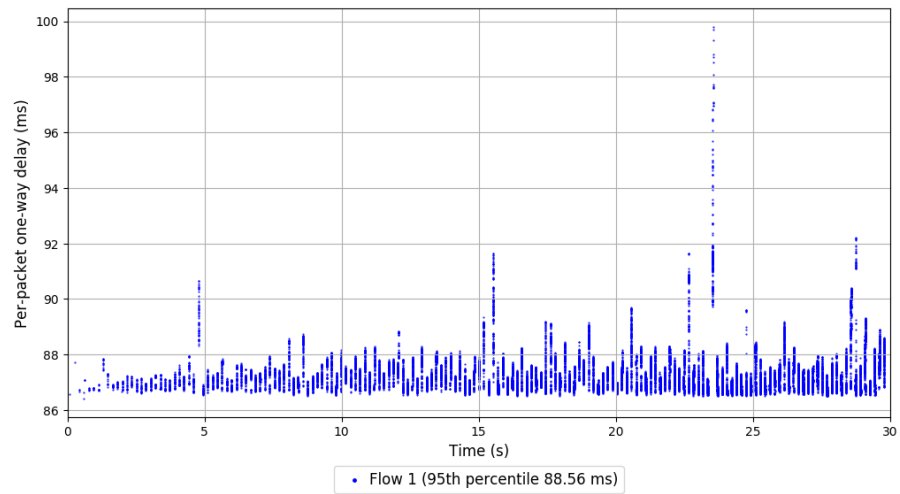
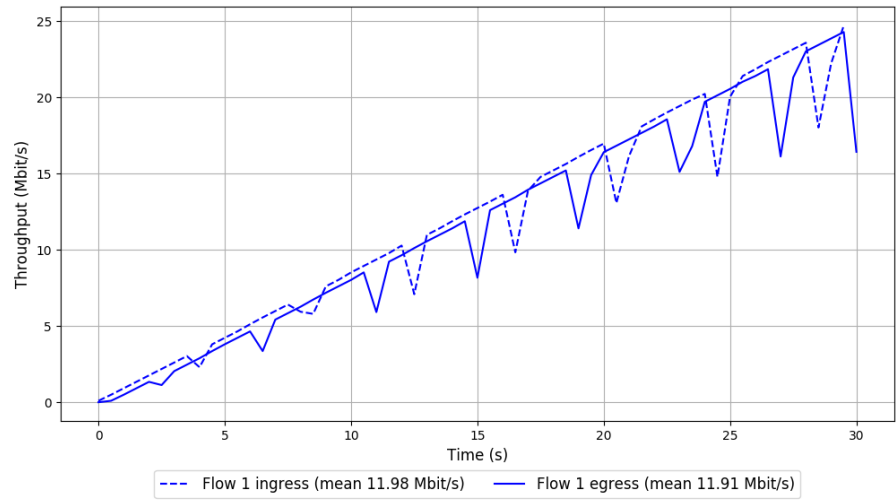
-- Flow 1:

Average throughput: 11.91 Mbit/s

95th percentile per-packet one-way delay: 88.558 ms

Loss rate: 1.16%

Run 10: Report of LEDBAT — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2018-06-29 23:23:27

End at: 2018-06-29 23:23:57

Local clock offset: 0.16 ms

Remote clock offset: -0.078 ms

Below is generated by plot.py at 2018-06-30 03:08:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 253.11 Mbit/s

95th percentile per-packet one-way delay: 156.483 ms

Loss rate: 1.21%

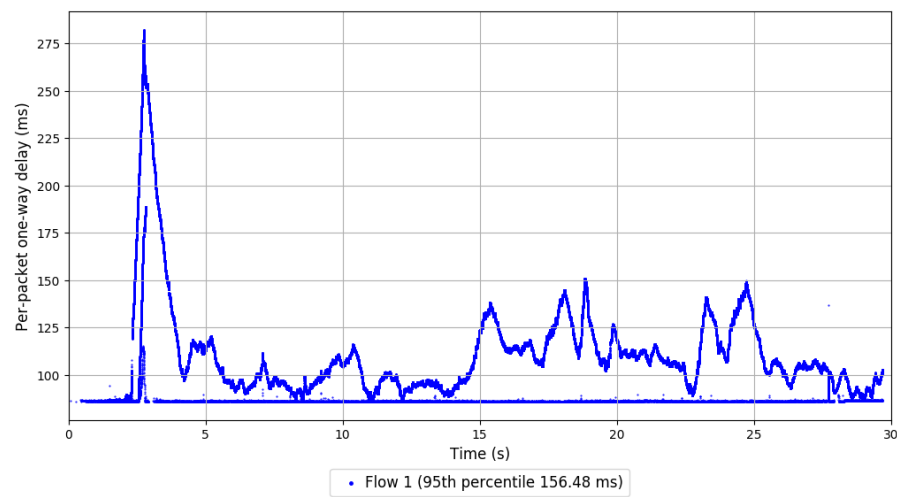
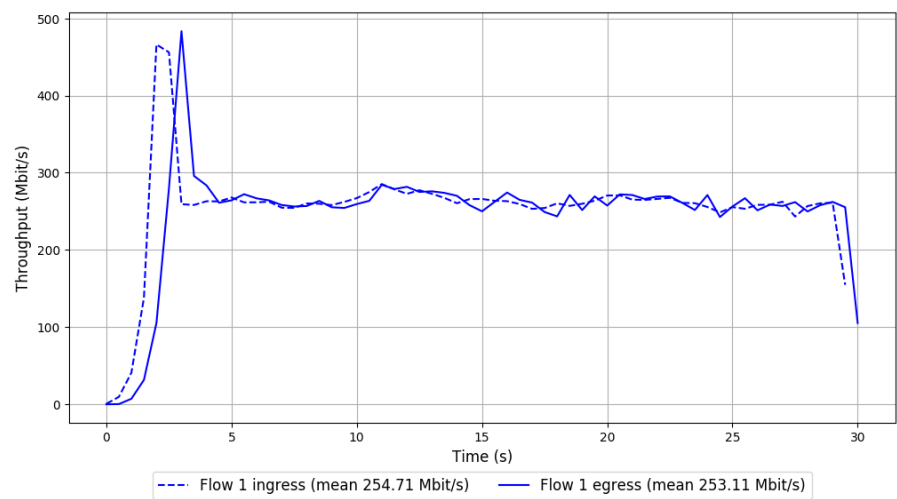
-- Flow 1:

Average throughput: 253.11 Mbit/s

95th percentile per-packet one-way delay: 156.483 ms

Loss rate: 1.21%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-06-29 23:44:34

End at: 2018-06-29 23:45:04

Local clock offset: -0.038 ms

Remote clock offset: 0.005 ms

Below is generated by plot.py at 2018-06-30 03:09:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 256.39 Mbit/s

95th percentile per-packet one-way delay: 128.338 ms

Loss rate: 1.05%

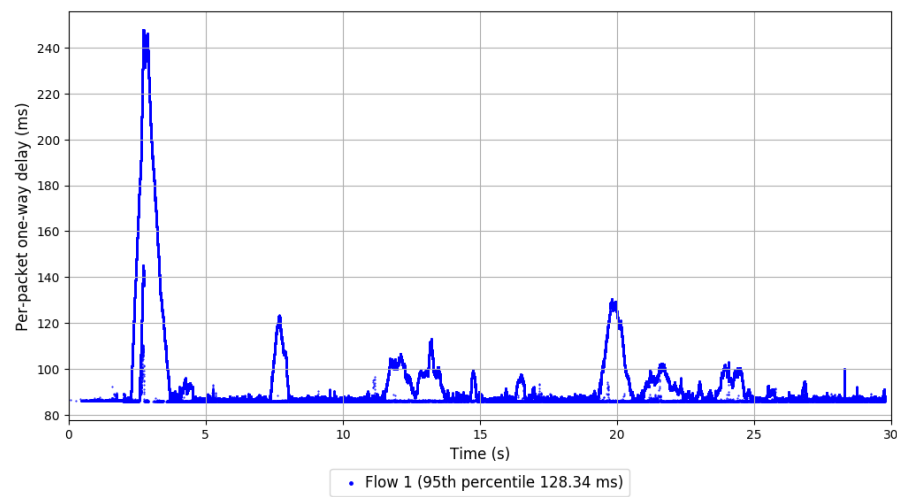
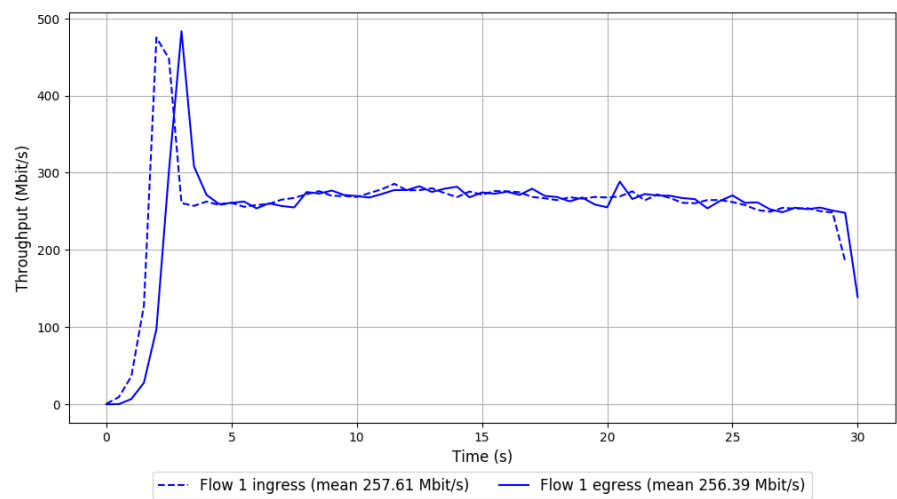
-- Flow 1:

Average throughput: 256.39 Mbit/s

95th percentile per-packet one-way delay: 128.338 ms

Loss rate: 1.05%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-06-30 00:05:31

End at: 2018-06-30 00:06:01

Local clock offset: 0.107 ms

Remote clock offset: 0.03 ms

Below is generated by plot.py at 2018-06-30 03:09:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 267.65 Mbit/s

95th percentile per-packet one-way delay: 118.020 ms

Loss rate: 0.95%

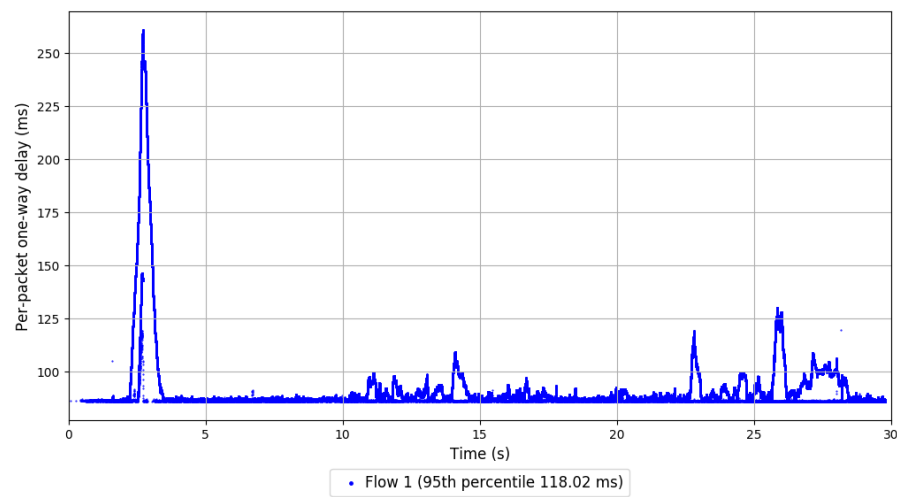
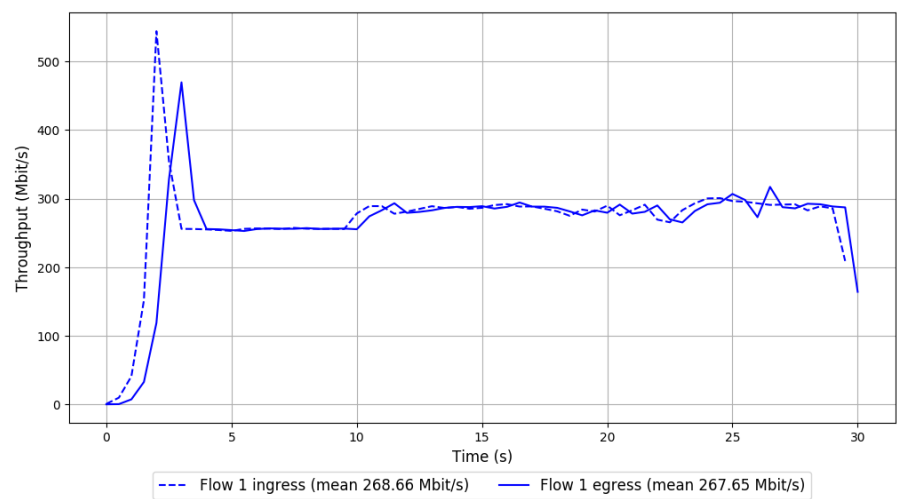
-- Flow 1:

Average throughput: 267.65 Mbit/s

95th percentile per-packet one-way delay: 118.020 ms

Loss rate: 0.95%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-06-30 00:26:45

End at: 2018-06-30 00:27:15

Local clock offset: -0.129 ms

Remote clock offset: 0.149 ms

Below is generated by plot.py at 2018-06-30 03:09:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 252.17 Mbit/s

95th percentile per-packet one-way delay: 162.541 ms

Loss rate: 1.07%

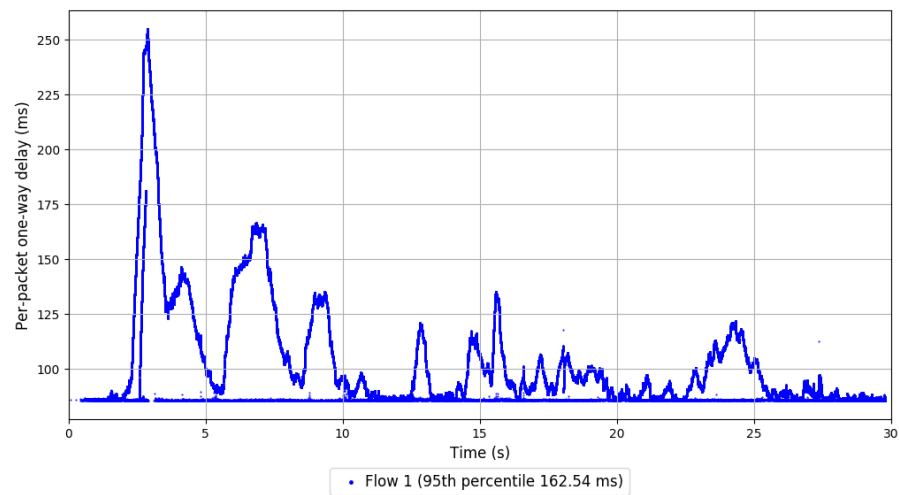
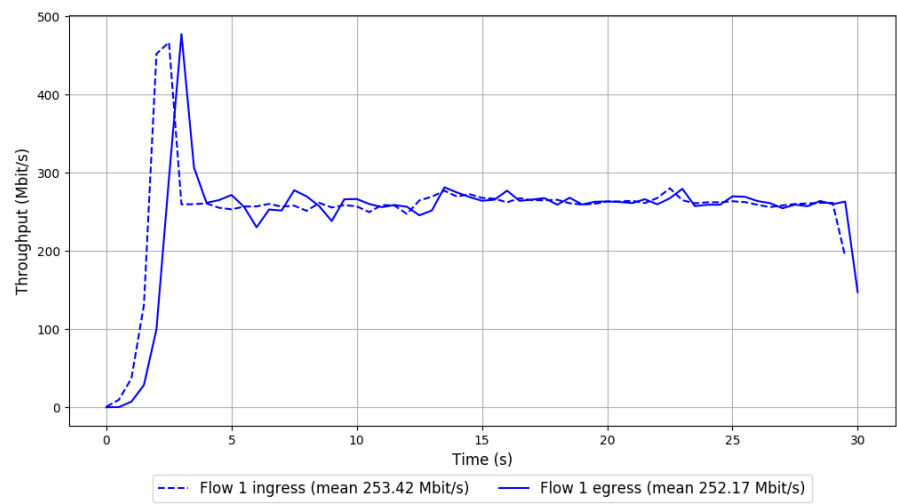
-- Flow 1:

Average throughput: 252.17 Mbit/s

95th percentile per-packet one-way delay: 162.541 ms

Loss rate: 1.07%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-06-30 00:47:49

End at: 2018-06-30 00:48:19

Local clock offset: -0.06 ms

Remote clock offset: 0.267 ms

Below is generated by plot.py at 2018-06-30 03:10:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 254.71 Mbit/s

95th percentile per-packet one-way delay: 150.152 ms

Loss rate: 1.05%

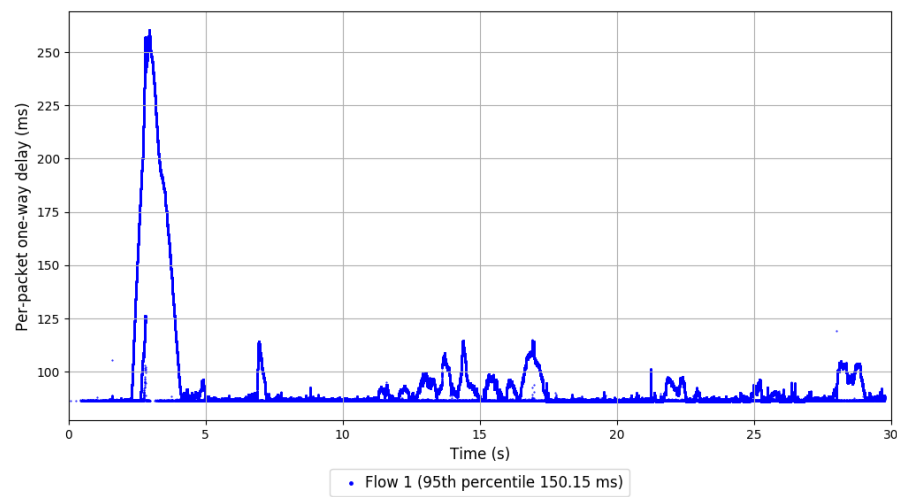
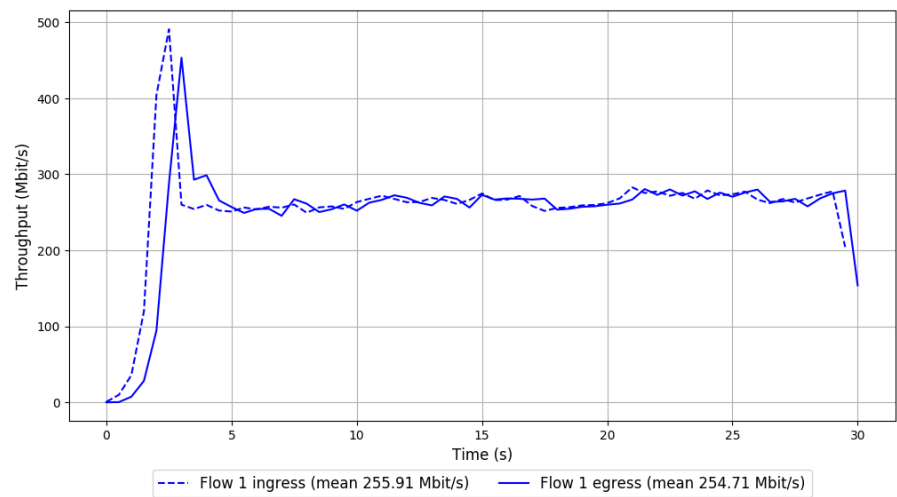
-- Flow 1:

Average throughput: 254.71 Mbit/s

95th percentile per-packet one-way delay: 150.152 ms

Loss rate: 1.05%

Run 5: Report of PCC-Allegro — Data Link



Run 6: Statistics of PCC-Allegro

Start at: 2018-06-30 01:08:50

End at: 2018-06-30 01:09:20

Local clock offset: 0.125 ms

Remote clock offset: 0.286 ms

Below is generated by plot.py at 2018-06-30 03:10:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 249.44 Mbit/s

95th percentile per-packet one-way delay: 127.422 ms

Loss rate: 1.23%

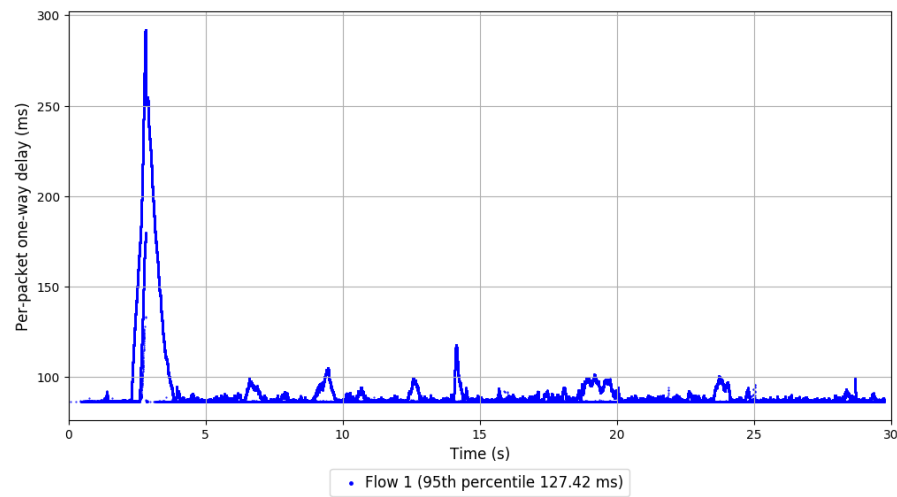
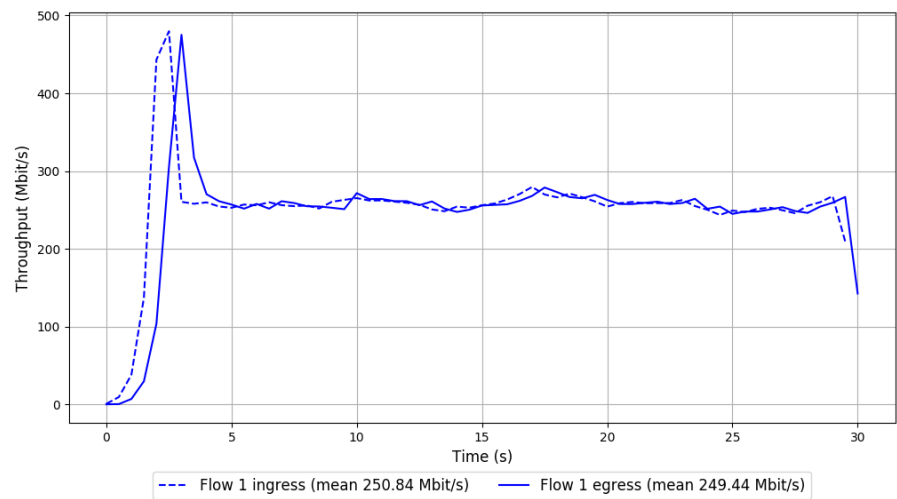
-- Flow 1:

Average throughput: 249.44 Mbit/s

95th percentile per-packet one-way delay: 127.422 ms

Loss rate: 1.23%

Run 6: Report of PCC-Allegro — Data Link



Run 7: Statistics of PCC-Allegro

Start at: 2018-06-30 01:29:55

End at: 2018-06-30 01:30:25

Local clock offset: 0.323 ms

Remote clock offset: 0.057 ms

Below is generated by plot.py at 2018-06-30 03:11:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 269.89 Mbit/s

95th percentile per-packet one-way delay: 128.886 ms

Loss rate: 0.98%

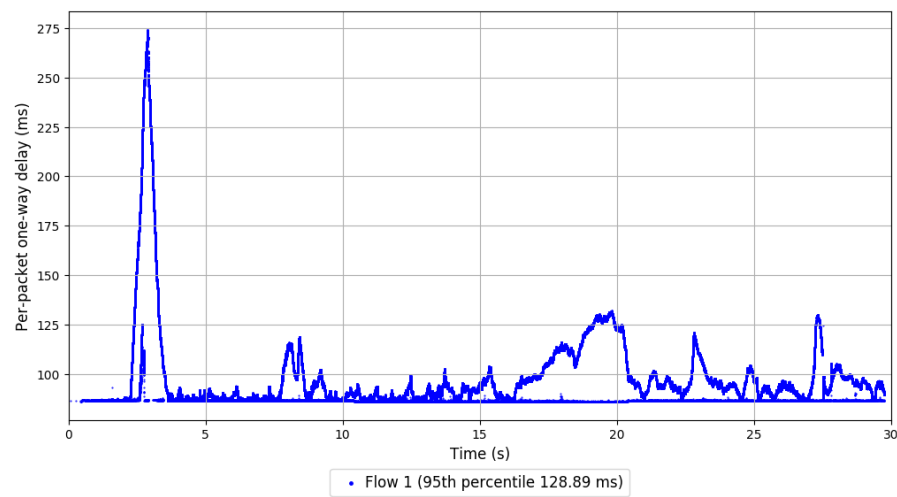
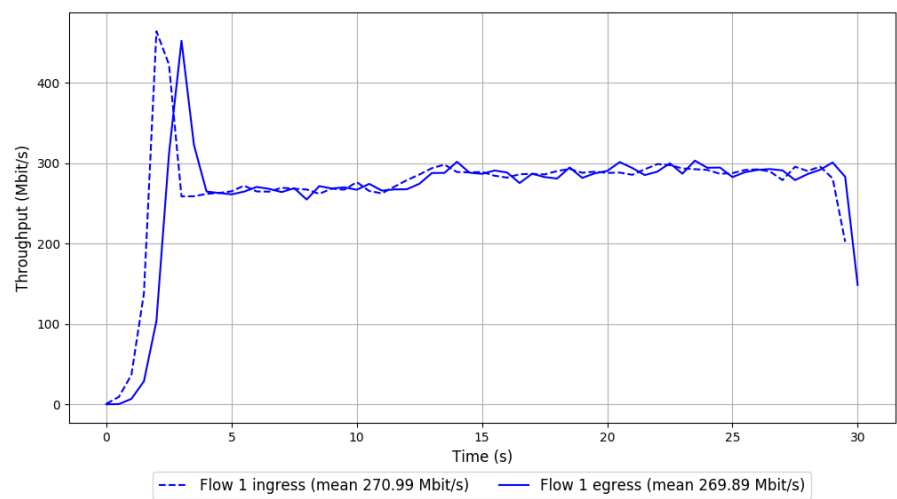
-- Flow 1:

Average throughput: 269.89 Mbit/s

95th percentile per-packet one-way delay: 128.886 ms

Loss rate: 0.98%

Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-06-30 01:51:10

End at: 2018-06-30 01:51:40

Local clock offset: 0.325 ms

Remote clock offset: 0.017 ms

Below is generated by plot.py at 2018-06-30 03:11:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 227.77 Mbit/s

95th percentile per-packet one-way delay: 183.873 ms

Loss rate: 0.72%

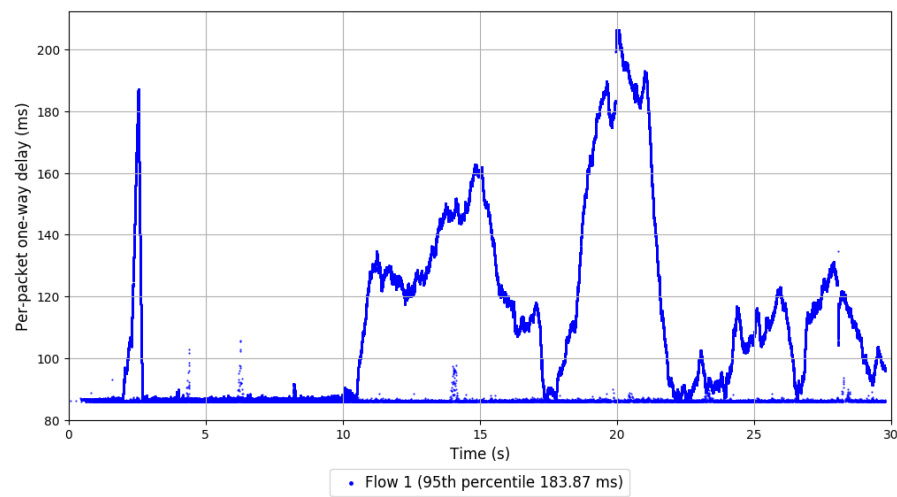
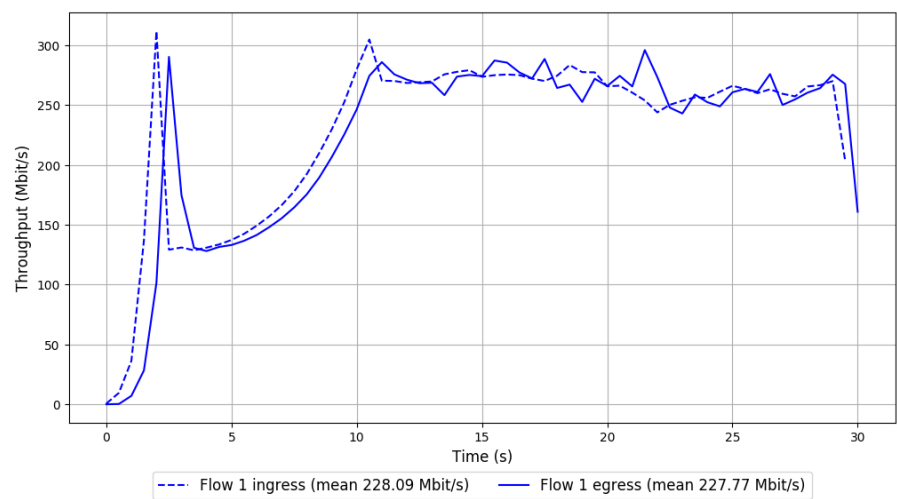
-- Flow 1:

Average throughput: 227.77 Mbit/s

95th percentile per-packet one-way delay: 183.873 ms

Loss rate: 0.72%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-06-30 02:12:02

End at: 2018-06-30 02:12:32

Local clock offset: 0.274 ms

Remote clock offset: -0.105 ms

Below is generated by plot.py at 2018-06-30 03:13:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 262.68 Mbit/s

95th percentile per-packet one-way delay: 151.458 ms

Loss rate: 1.16%

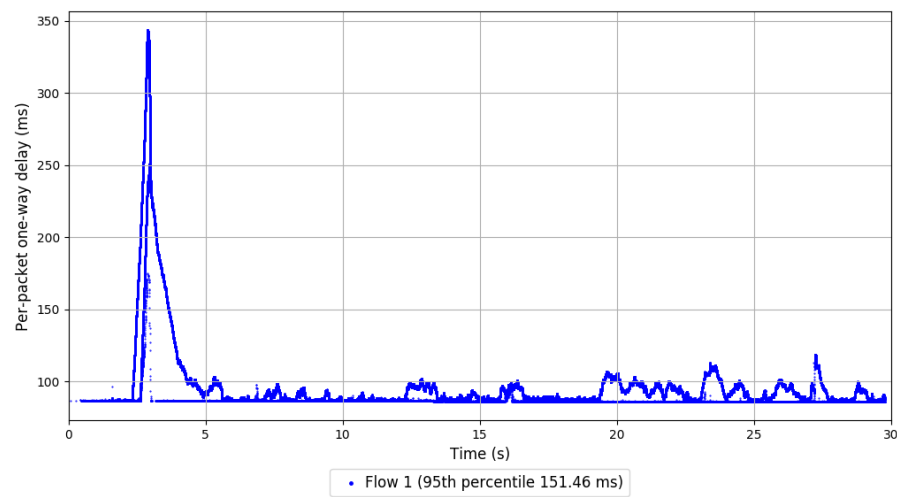
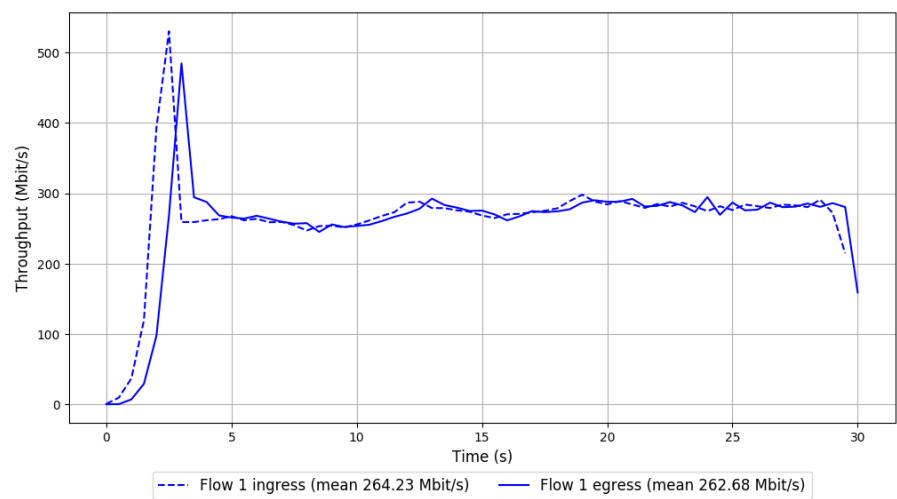
-- Flow 1:

Average throughput: 262.68 Mbit/s

95th percentile per-packet one-way delay: 151.458 ms

Loss rate: 1.16%

Run 9: Report of PCC-Allegro — Data Link

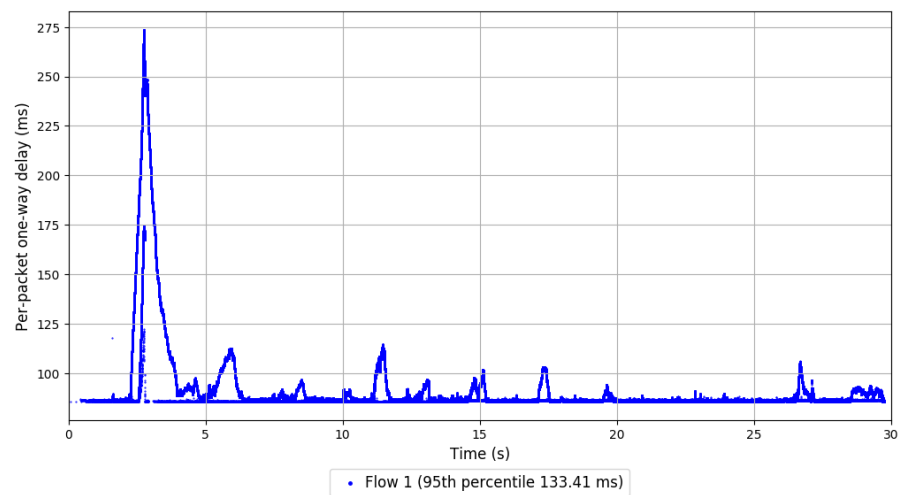
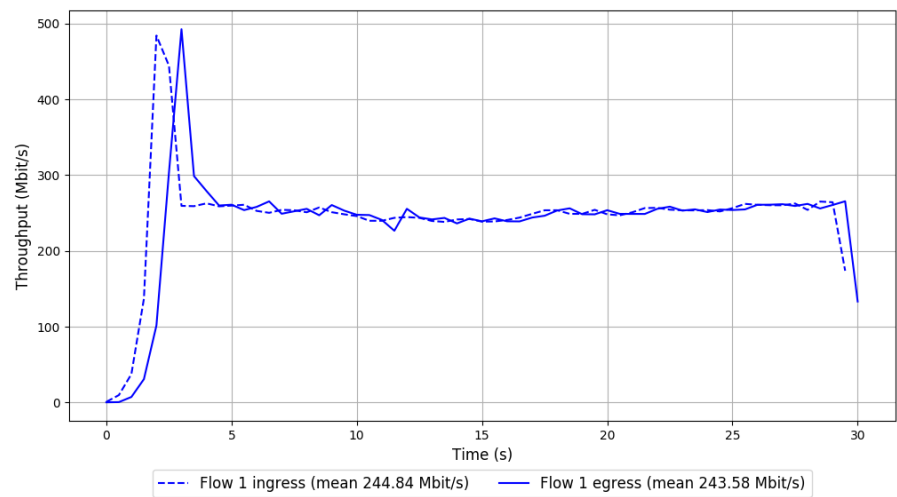


Run 10: Statistics of PCC-Allegro

Start at: 2018-06-30 02:32:51
End at: 2018-06-30 02:33:21
Local clock offset: -0.022 ms
Remote clock offset: -0.057 ms

Below is generated by plot.py at 2018-06-30 03:13:55
Datalink statistics
-- Total of 1 flow:
Average throughput: 243.58 Mbit/s
95th percentile per-packet one-way delay: 133.414 ms
Loss rate: 1.09%
-- Flow 1:
Average throughput: 243.58 Mbit/s
95th percentile per-packet one-way delay: 133.414 ms
Loss rate: 1.09%

Run 10: Report of PCC-Allegro — Data Link

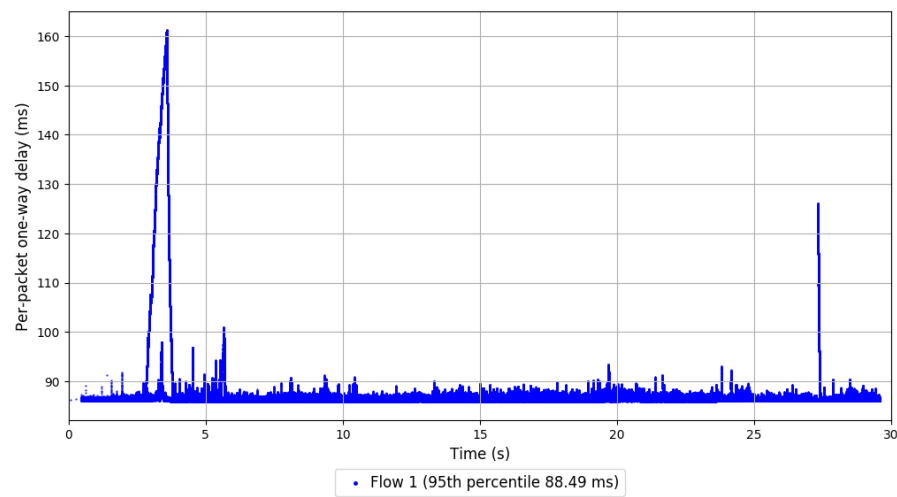
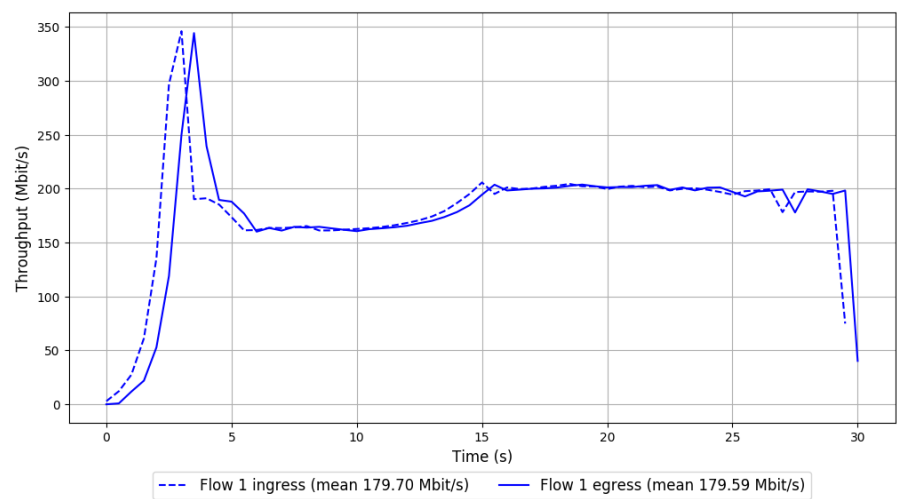


```
Run 1: Statistics of PCC-Expr

Start at: 2018-06-29 23:09:42
End at: 2018-06-29 23:10:12
Local clock offset: 0.254 ms
Remote clock offset: -0.053 ms

# Below is generated by plot.py at 2018-06-30 03:15:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 179.59 Mbit/s
95th percentile per-packet one-way delay: 88.487 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 179.59 Mbit/s
95th percentile per-packet one-way delay: 88.487 ms
Loss rate: 0.65%
```


Run 1: Report of PCC-Expr — Data Link

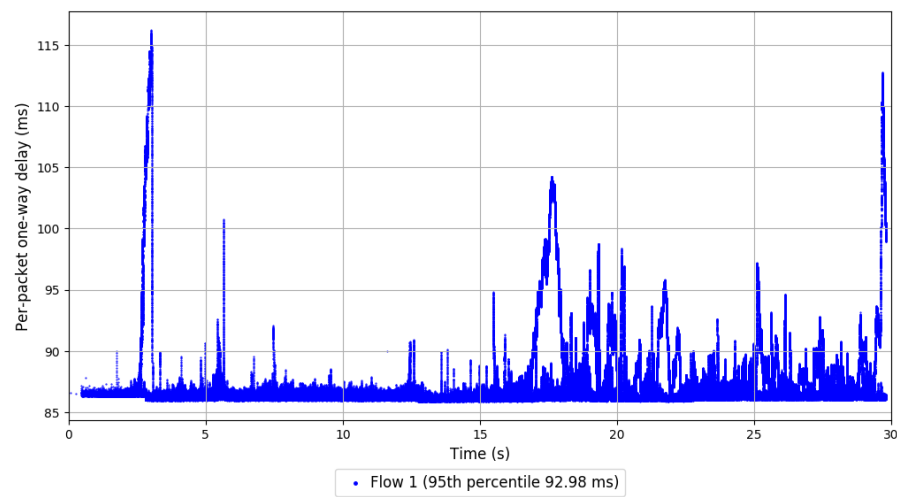
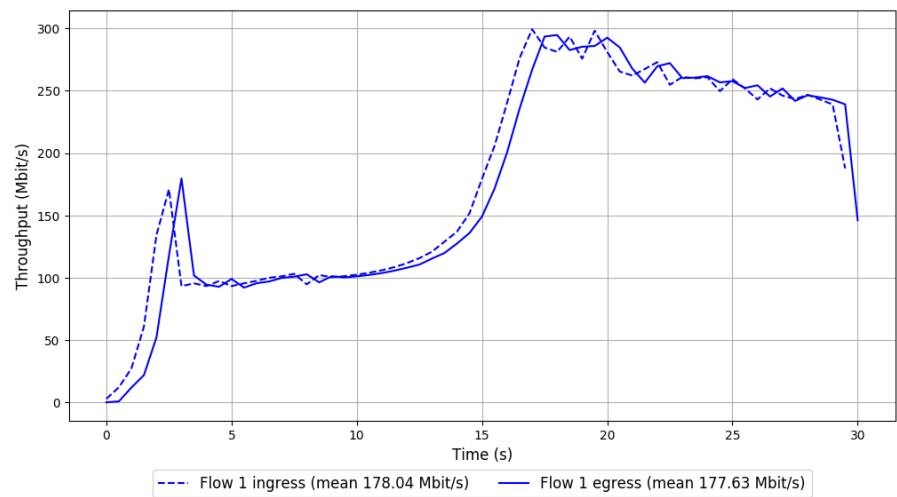


Run 2: Statistics of PCC-Expr

Start at: 2018-06-29 23:30:43
End at: 2018-06-29 23:31:13
Local clock offset: 0.202 ms
Remote clock offset: -0.045 ms

Below is generated by plot.py at 2018-06-30 03:15:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 177.63 Mbit/s
95th percentile per-packet one-way delay: 92.983 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 177.63 Mbit/s
95th percentile per-packet one-way delay: 92.983 ms
Loss rate: 0.81%

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2018-06-29 23:51:56

End at: 2018-06-29 23:52:26

Local clock offset: 0.186 ms

Remote clock offset: 0.052 ms

Below is generated by plot.py at 2018-06-30 03:17:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 193.05 Mbit/s

95th percentile per-packet one-way delay: 89.061 ms

Loss rate: 0.70%

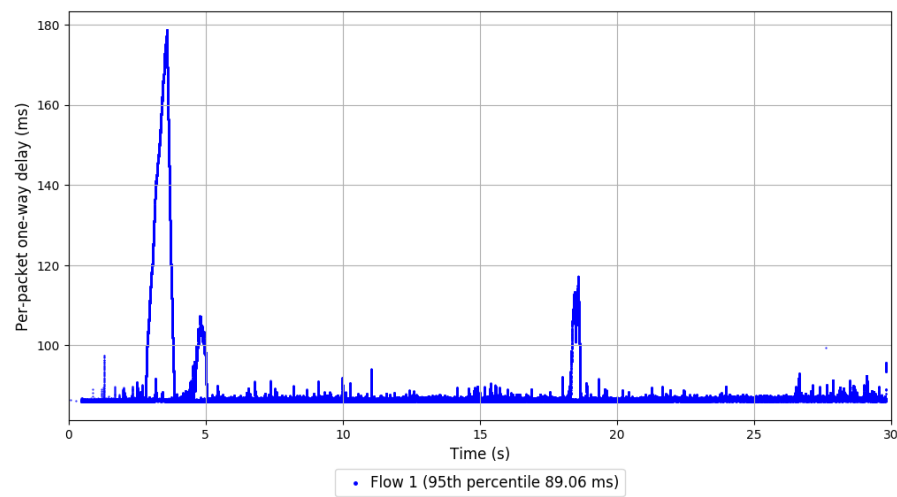
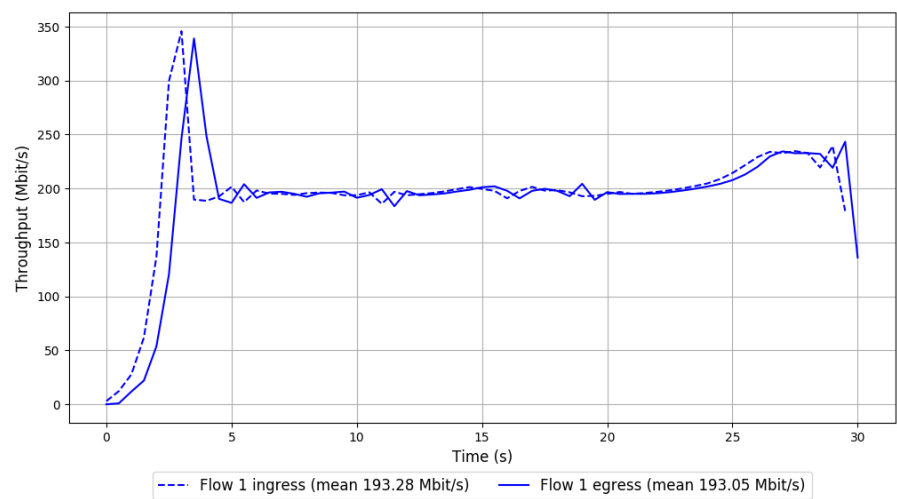
-- Flow 1:

Average throughput: 193.05 Mbit/s

95th percentile per-packet one-way delay: 89.061 ms

Loss rate: 0.70%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2018-06-30 00:12:50

End at: 2018-06-30 00:13:20

Local clock offset: 0.108 ms

Remote clock offset: 0.091 ms

Below is generated by plot.py at 2018-06-30 03:17:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 191.30 Mbit/s

95th percentile per-packet one-way delay: 87.884 ms

Loss rate: 0.55%

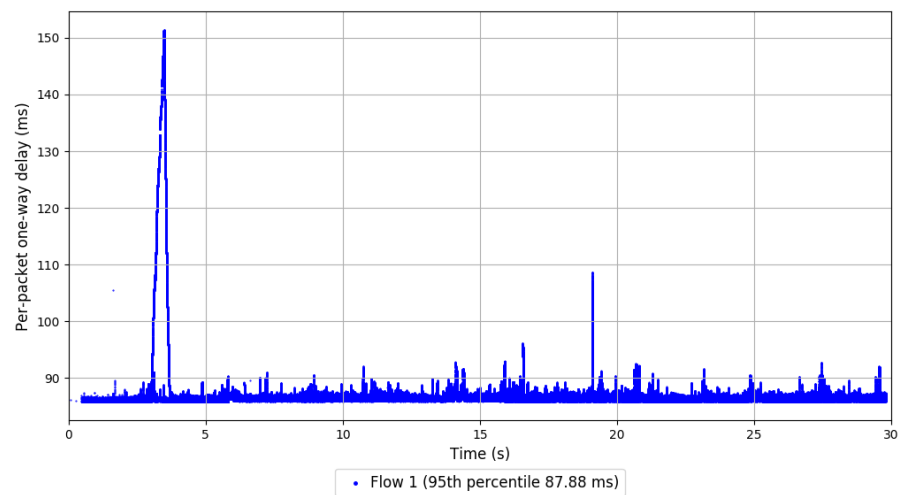
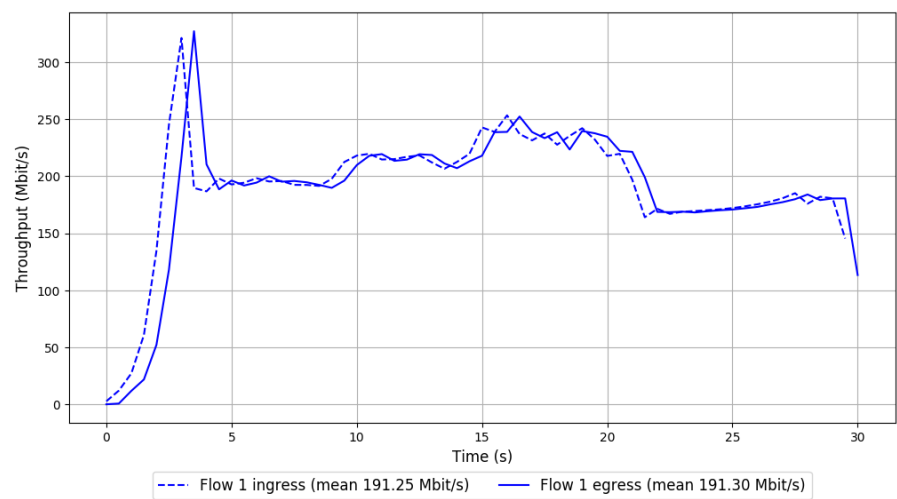
-- Flow 1:

Average throughput: 191.30 Mbit/s

95th percentile per-packet one-way delay: 87.884 ms

Loss rate: 0.55%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2018-06-30 00:34:04

End at: 2018-06-30 00:34:34

Local clock offset: -0.001 ms

Remote clock offset: 0.212 ms

Below is generated by plot.py at 2018-06-30 03:18:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 191.93 Mbit/s

95th percentile per-packet one-way delay: 89.312 ms

Loss rate: 0.62%

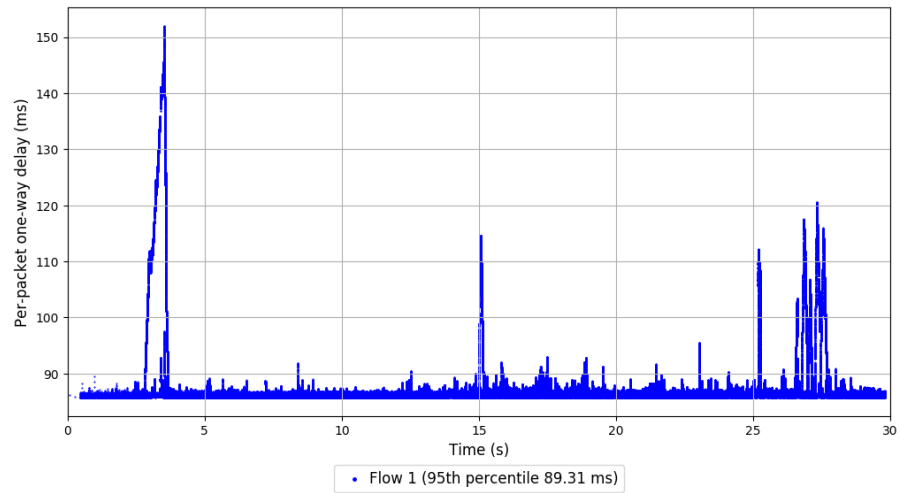
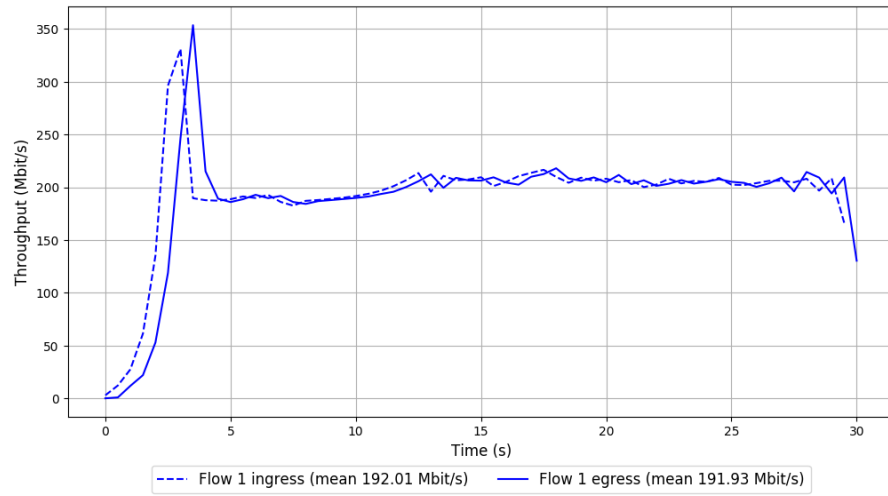
-- Flow 1:

Average throughput: 191.93 Mbit/s

95th percentile per-packet one-way delay: 89.312 ms

Loss rate: 0.62%

Run 5: Report of PCC-Expr — Data Link



Run 6: Statistics of PCC-Expr

Start at: 2018-06-30 00:55:06

End at: 2018-06-30 00:55:36

Local clock offset: 0.097 ms

Remote clock offset: 0.25 ms

Below is generated by plot.py at 2018-06-30 03:19:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 196.86 Mbit/s

95th percentile per-packet one-way delay: 101.145 ms

Loss rate: 0.71%

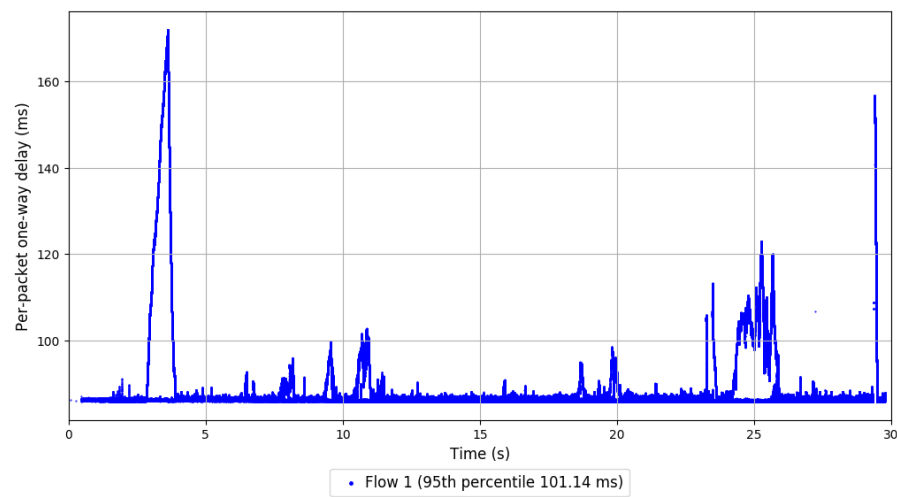
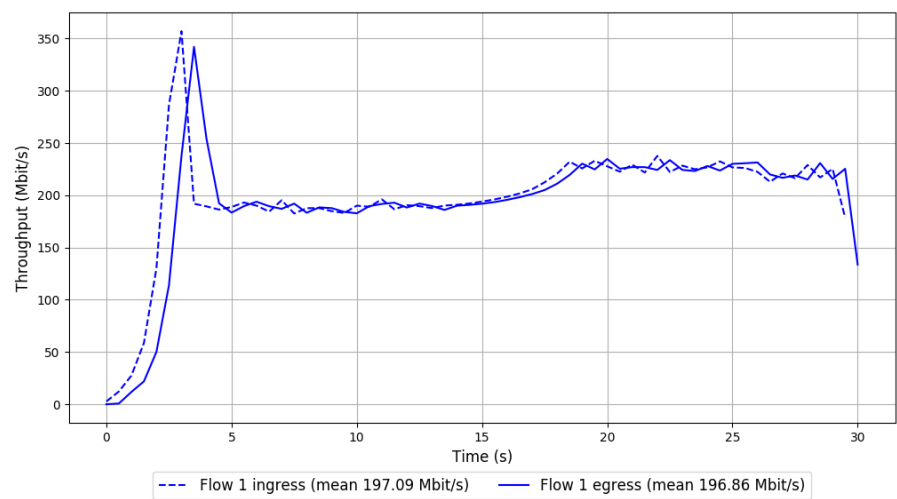
-- Flow 1:

Average throughput: 196.86 Mbit/s

95th percentile per-packet one-way delay: 101.145 ms

Loss rate: 0.71%

Run 6: Report of PCC-Expr — Data Link



Run 7: Statistics of PCC-Expr

Start at: 2018-06-30 01:16:08

End at: 2018-06-30 01:16:38

Local clock offset: 0.247 ms

Remote clock offset: 0.269 ms

Below is generated by plot.py at 2018-06-30 03:19:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 112.75 Mbit/s

95th percentile per-packet one-way delay: 87.204 ms

Loss rate: 0.78%

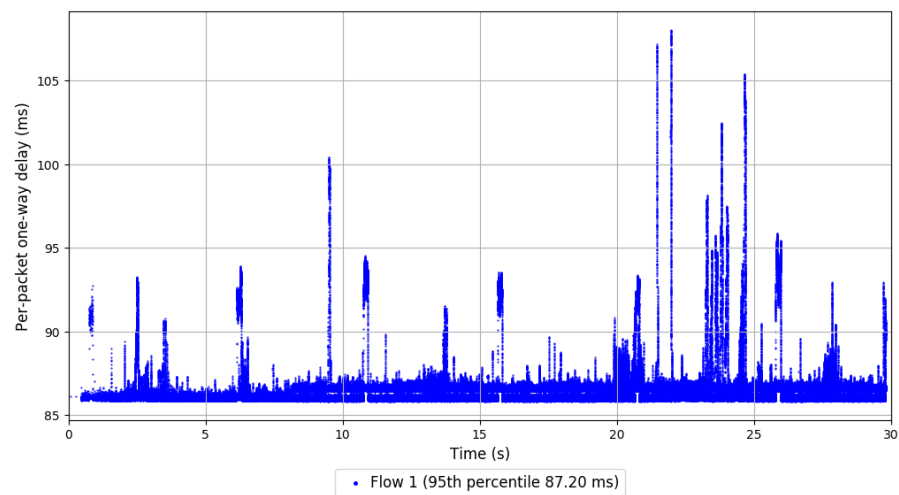
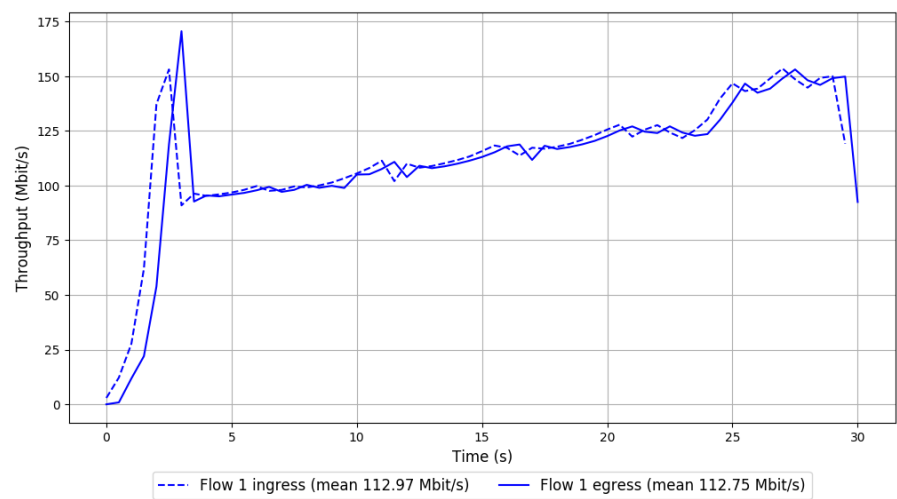
-- Flow 1:

Average throughput: 112.75 Mbit/s

95th percentile per-packet one-way delay: 87.204 ms

Loss rate: 0.78%

Run 7: Report of PCC-Expr — Data Link



Run 8: Statistics of PCC-Expr

Start at: 2018-06-30 01:37:13

End at: 2018-06-30 01:37:43

Local clock offset: 0.097 ms

Remote clock offset: 0.071 ms

Below is generated by plot.py at 2018-06-30 03:21:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 195.29 Mbit/s

95th percentile per-packet one-way delay: 100.172 ms

Loss rate: 0.69%

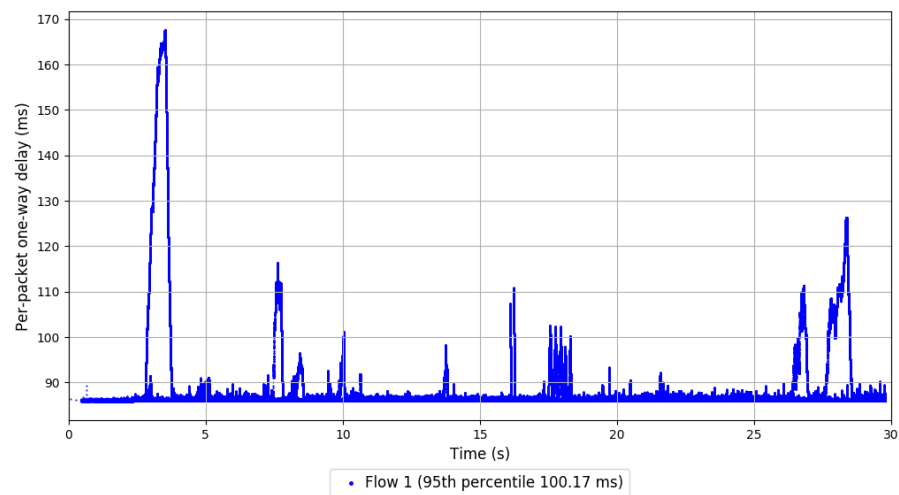
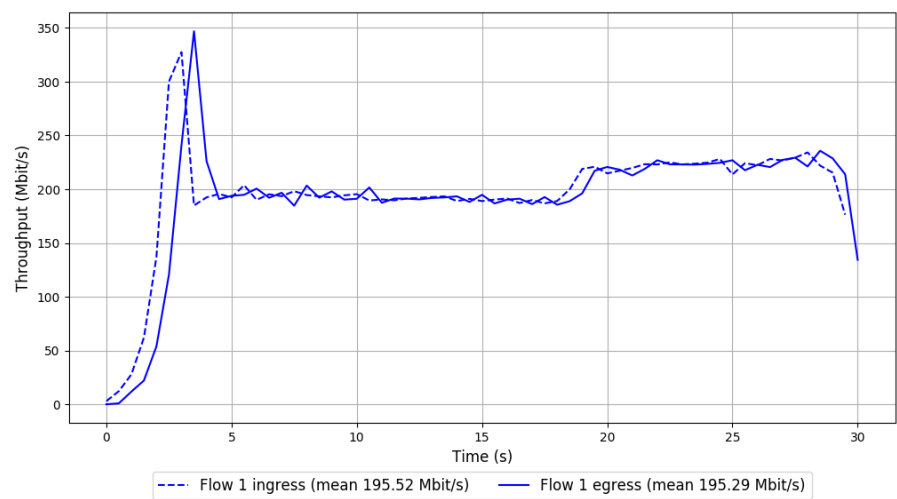
-- Flow 1:

Average throughput: 195.29 Mbit/s

95th percentile per-packet one-way delay: 100.172 ms

Loss rate: 0.69%

Run 8: Report of PCC-Expr — Data Link



Run 9: Statistics of PCC-Expr

Start at: 2018-06-30 01:58:16

End at: 2018-06-30 01:58:46

Local clock offset: 0.261 ms

Remote clock offset: -0.019 ms

Below is generated by plot.py at 2018-06-30 03:21:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 124.74 Mbit/s

95th percentile per-packet one-way delay: 91.003 ms

Loss rate: 0.72%

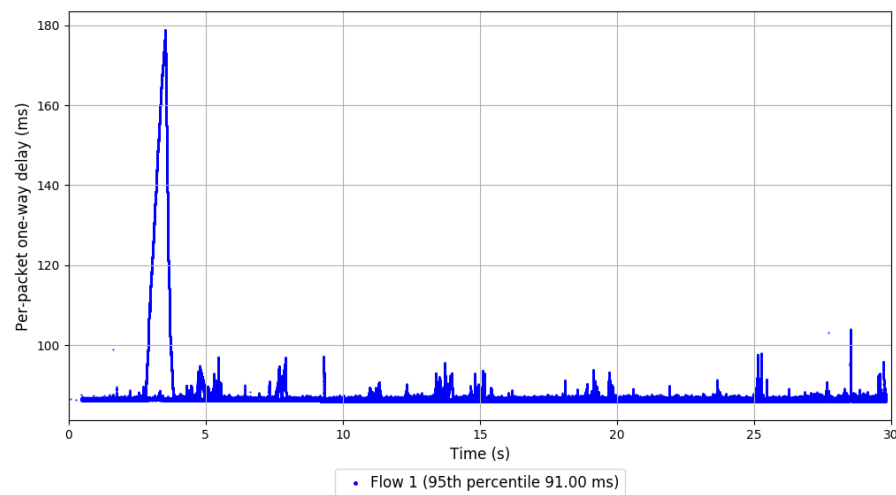
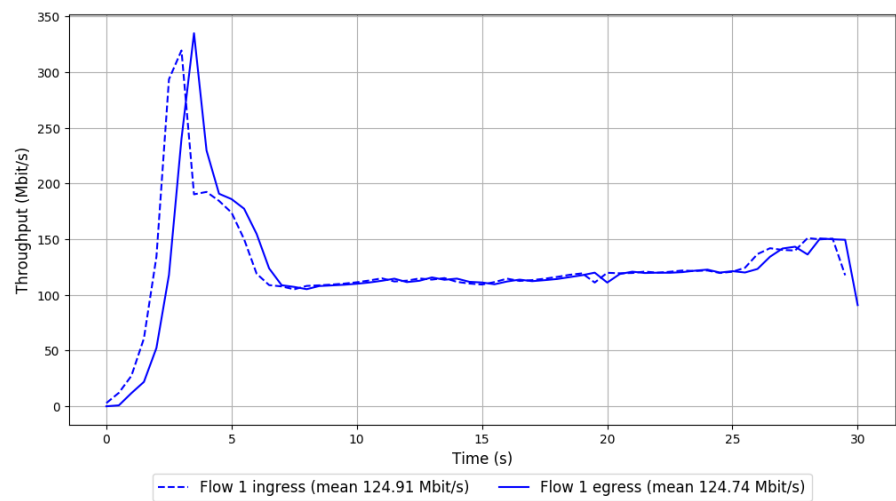
-- Flow 1:

Average throughput: 124.74 Mbit/s

95th percentile per-packet one-way delay: 91.003 ms

Loss rate: 0.72%

Run 9: Report of PCC-Expr — Data Link



Run 10: Statistics of PCC-Expr

Start at: 2018-06-30 02:19:22

End at: 2018-06-30 02:19:52

Local clock offset: 0.37 ms

Remote clock offset: -0.053 ms

Below is generated by plot.py at 2018-06-30 03:22:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 192.23 Mbit/s

95th percentile per-packet one-way delay: 92.101 ms

Loss rate: 0.64%

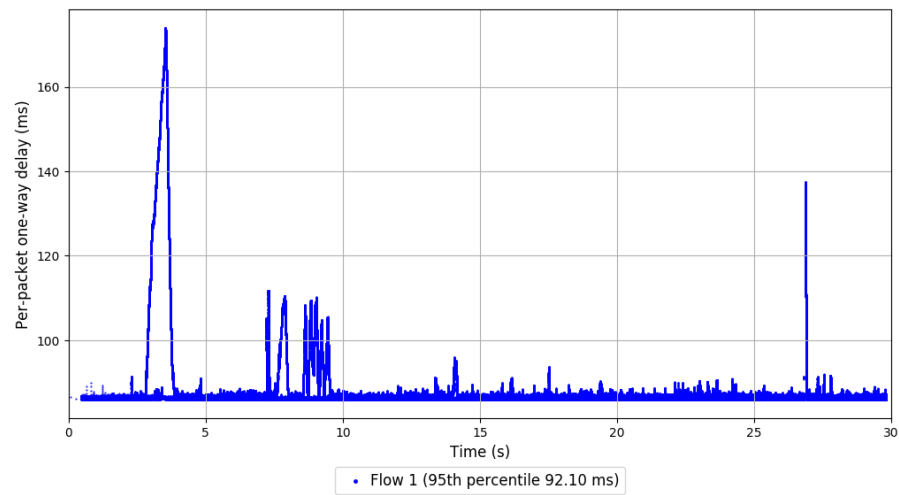
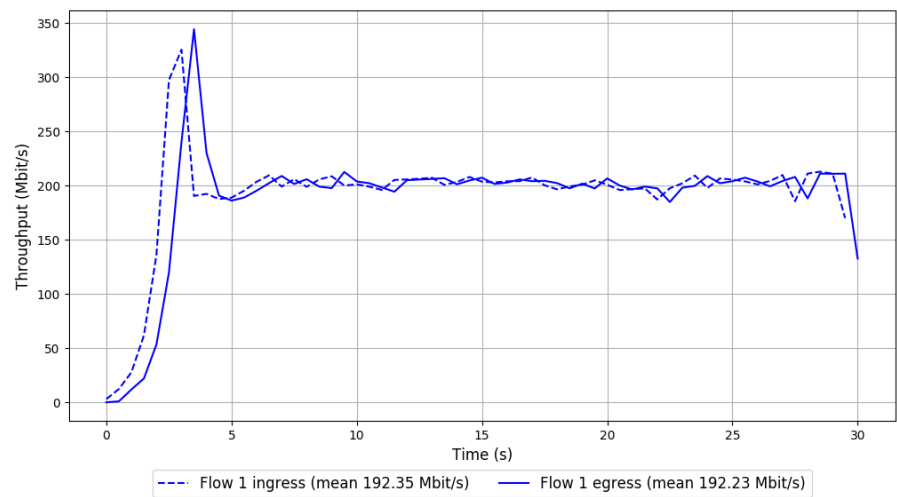
-- Flow 1:

Average throughput: 192.23 Mbit/s

95th percentile per-packet one-way delay: 92.101 ms

Loss rate: 0.64%

Run 10: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

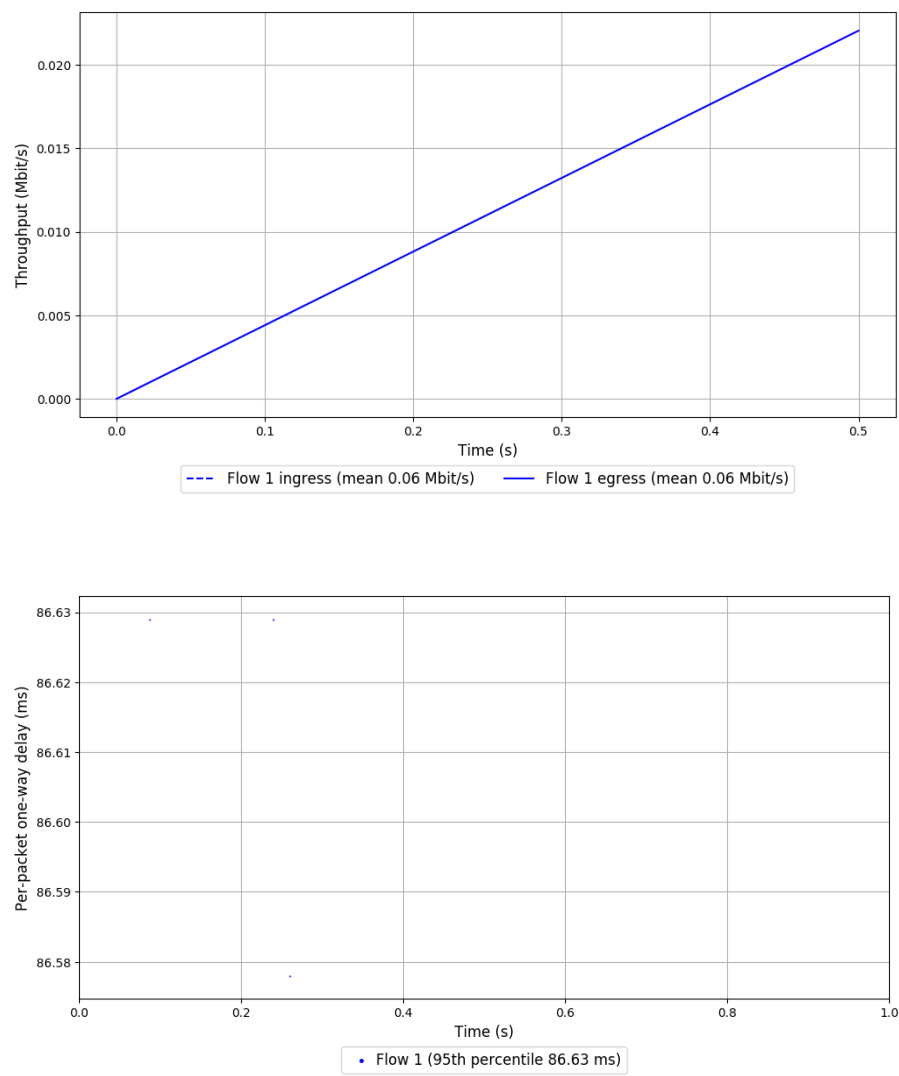
Start at: 2018-06-29 23:03:52

End at: 2018-06-29 23:04:22

Local clock offset: 0.3 ms

Remote clock offset: -0.054 ms

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-06-29 23:24:44

End at: 2018-06-29 23:25:14

Local clock offset: 0.19 ms

Remote clock offset: -0.024 ms

Below is generated by plot.py at 2018-06-30 03:22:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 54.07 Mbit/s

95th percentile per-packet one-way delay: 86.559 ms

Loss rate: 0.93%

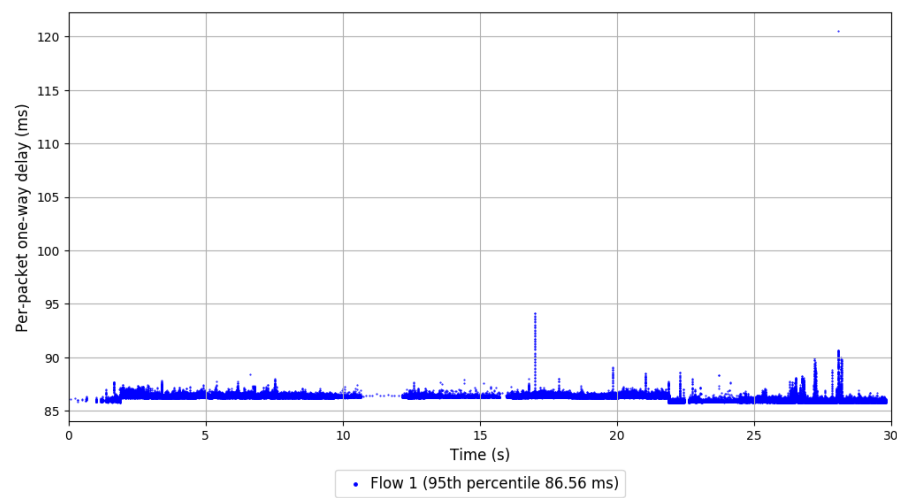
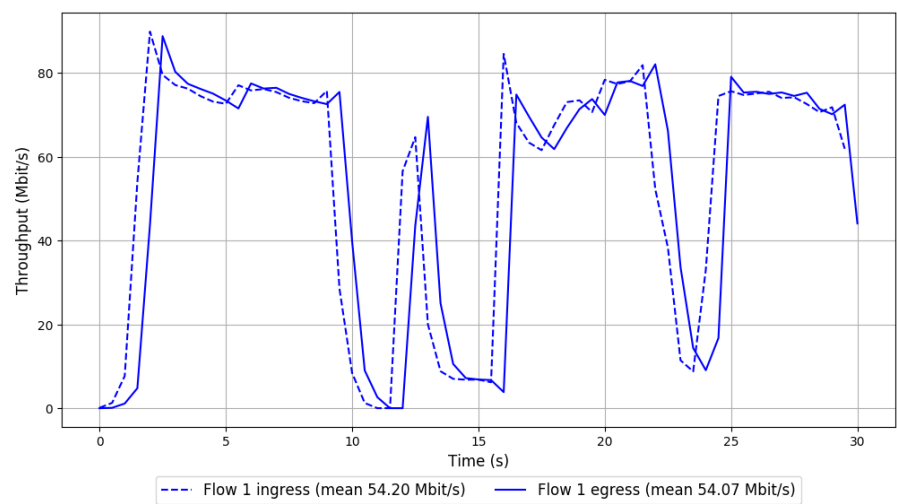
-- Flow 1:

Average throughput: 54.07 Mbit/s

95th percentile per-packet one-way delay: 86.559 ms

Loss rate: 0.93%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-06-29 23:45:50

End at: 2018-06-29 23:46:20

Local clock offset: -0.108 ms

Remote clock offset: 0.013 ms

Below is generated by plot.py at 2018-06-30 03:22:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 59.32 Mbit/s

95th percentile per-packet one-way delay: 86.066 ms

Loss rate: 0.72%

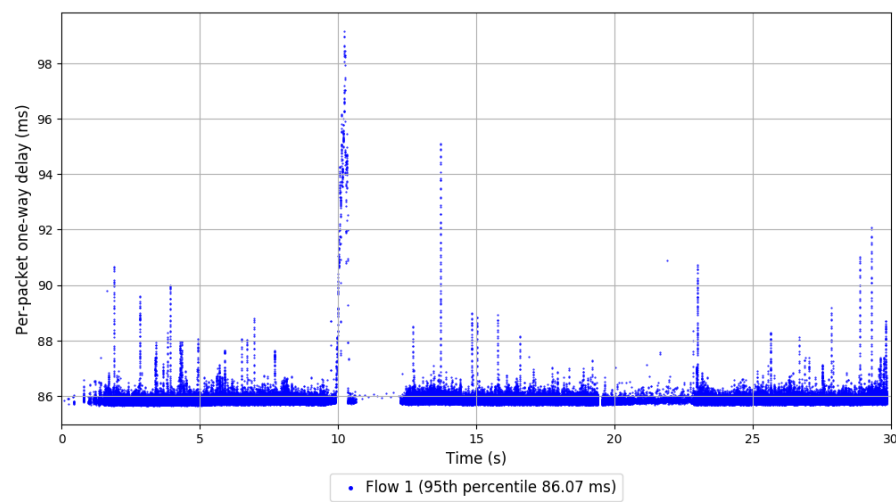
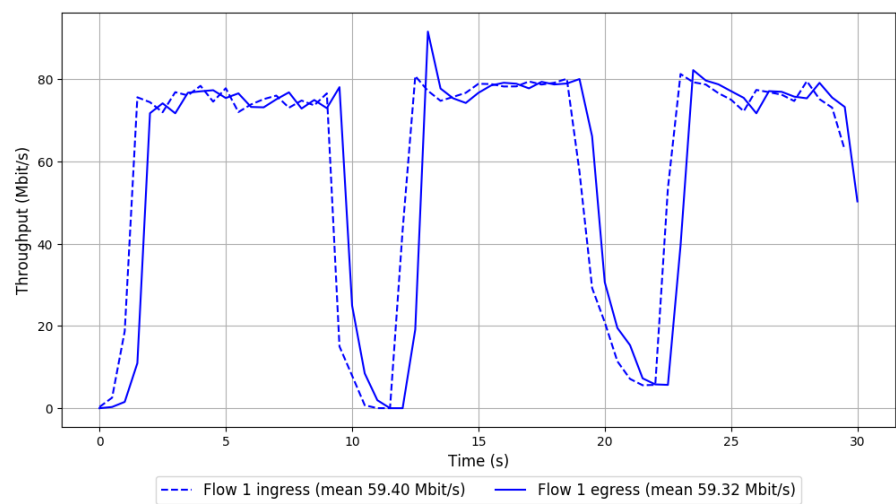
-- Flow 1:

Average throughput: 59.32 Mbit/s

95th percentile per-packet one-way delay: 86.066 ms

Loss rate: 0.72%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-06-30 00:06:48

End at: 2018-06-30 00:07:18

Local clock offset: 0.283 ms

Remote clock offset: 0.068 ms

Below is generated by plot.py at 2018-06-30 03:22:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 43.74 Mbit/s

95th percentile per-packet one-way delay: 86.300 ms

Loss rate: 0.71%

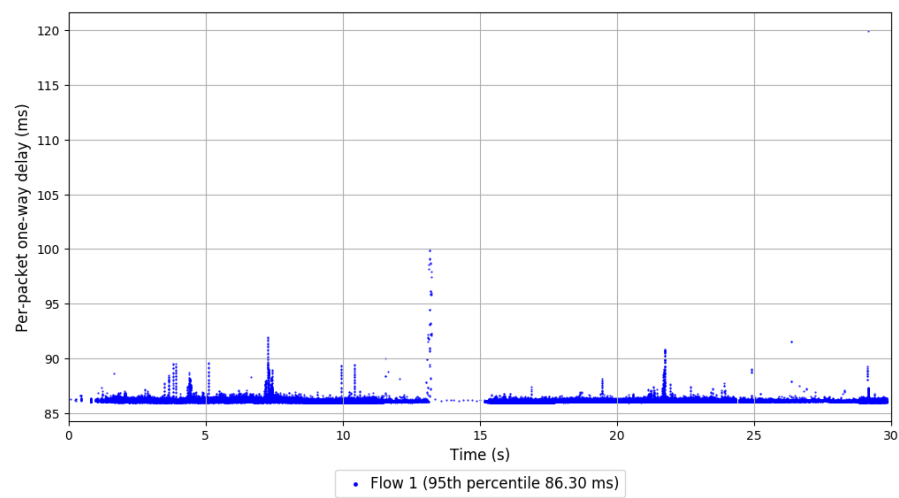
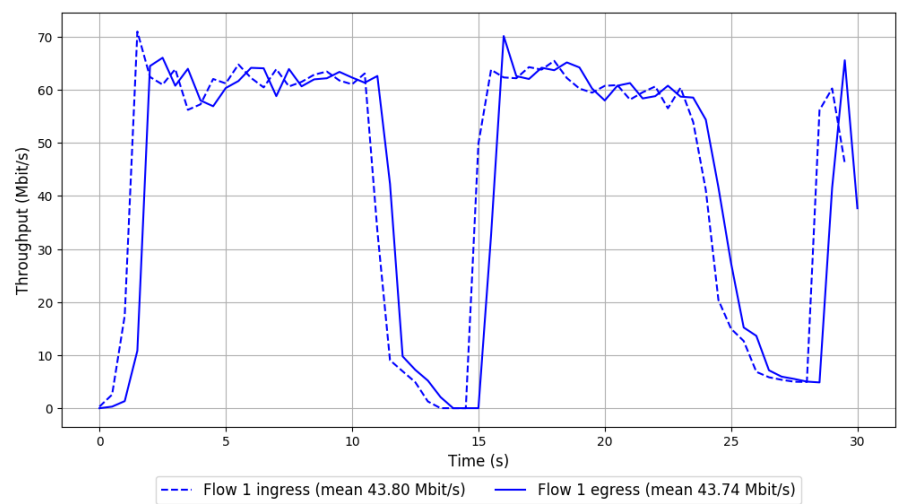
-- Flow 1:

Average throughput: 43.74 Mbit/s

95th percentile per-packet one-way delay: 86.300 ms

Loss rate: 0.71%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-06-30 00:28:01

End at: 2018-06-30 00:28:31

Local clock offset: 0.055 ms

Remote clock offset: 0.183 ms

Below is generated by plot.py at 2018-06-30 03:22:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 49.04 Mbit/s

95th percentile per-packet one-way delay: 86.137 ms

Loss rate: 0.91%

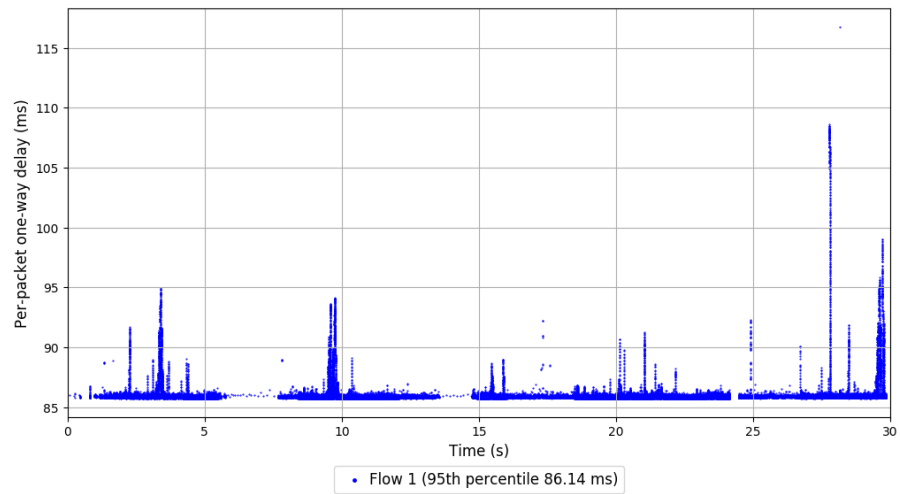
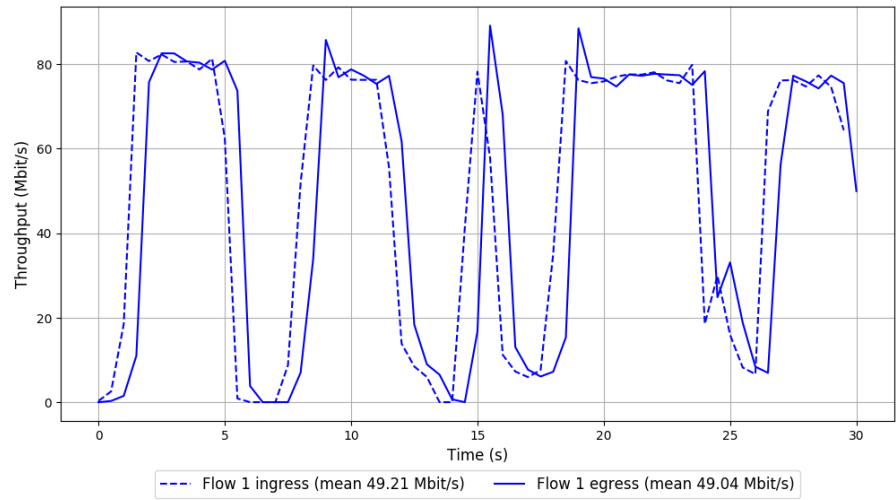
-- Flow 1:

Average throughput: 49.04 Mbit/s

95th percentile per-packet one-way delay: 86.137 ms

Loss rate: 0.91%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-06-30 00:49:06

End at: 2018-06-30 00:49:36

Local clock offset: 0.143 ms

Remote clock offset: 0.269 ms

Below is generated by plot.py at 2018-06-30 03:22:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 55.26 Mbit/s

95th percentile per-packet one-way delay: 86.301 ms

Loss rate: 0.77%

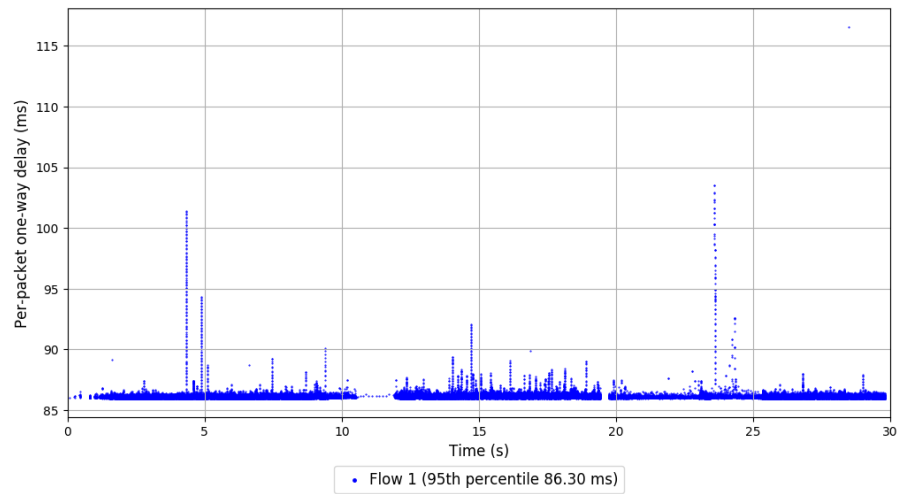
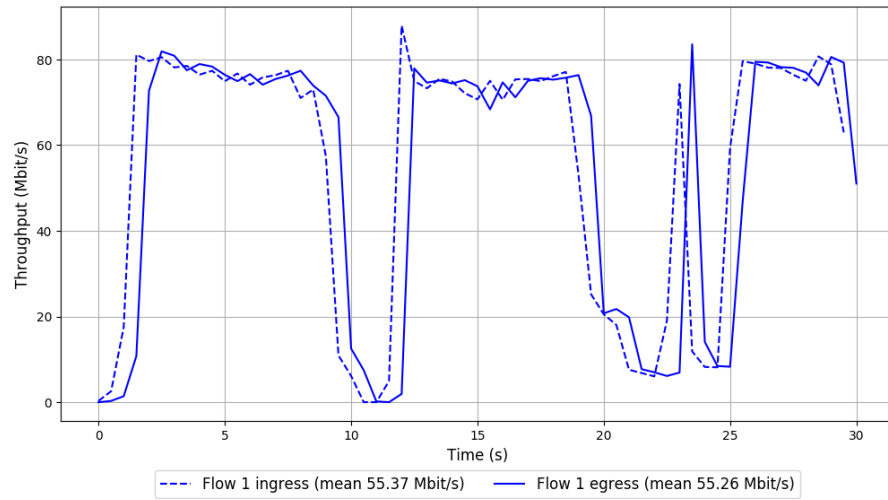
-- Flow 1:

Average throughput: 55.26 Mbit/s

95th percentile per-packet one-way delay: 86.301 ms

Loss rate: 0.77%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-06-30 01:10:06

End at: 2018-06-30 01:10:36

Local clock offset: 0.059 ms

Remote clock offset: 0.242 ms

Below is generated by plot.py at 2018-06-30 03:22:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 44.27 Mbit/s

95th percentile per-packet one-way delay: 86.244 ms

Loss rate: 1.02%

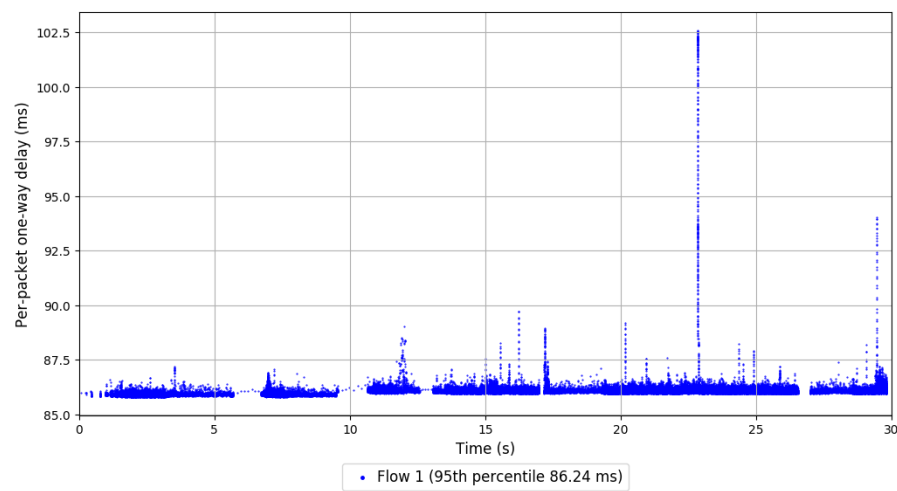
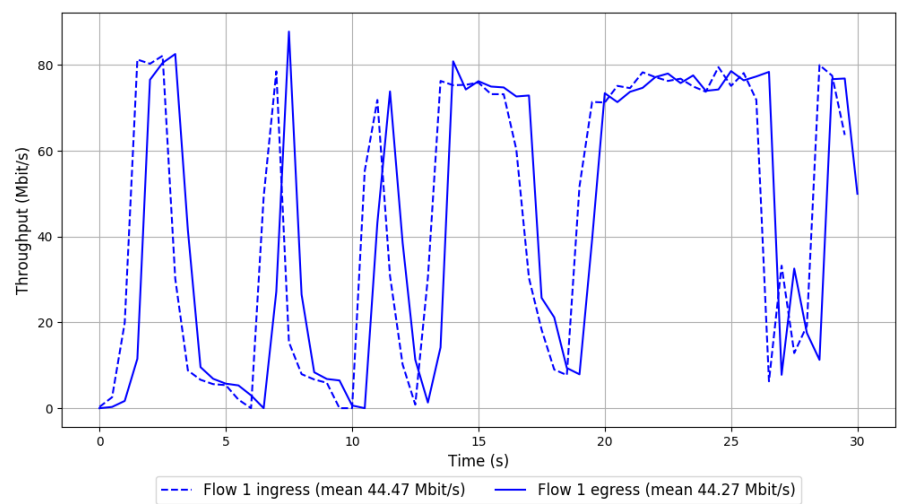
-- Flow 1:

Average throughput: 44.27 Mbit/s

95th percentile per-packet one-way delay: 86.244 ms

Loss rate: 1.02%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-06-30 01:31:12

End at: 2018-06-30 01:31:42

Local clock offset: 0.168 ms

Remote clock offset: 0.105 ms

Below is generated by plot.py at 2018-06-30 03:22:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.88 Mbit/s

95th percentile per-packet one-way delay: 86.548 ms

Loss rate: 0.88%

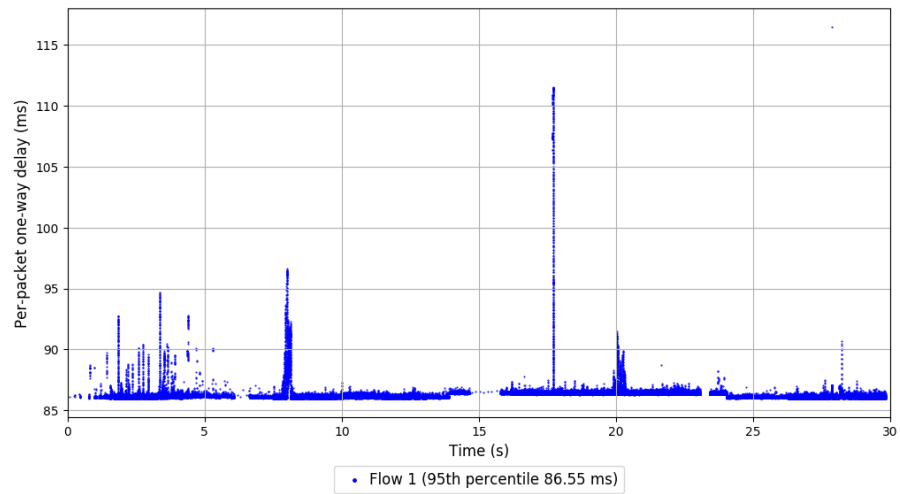
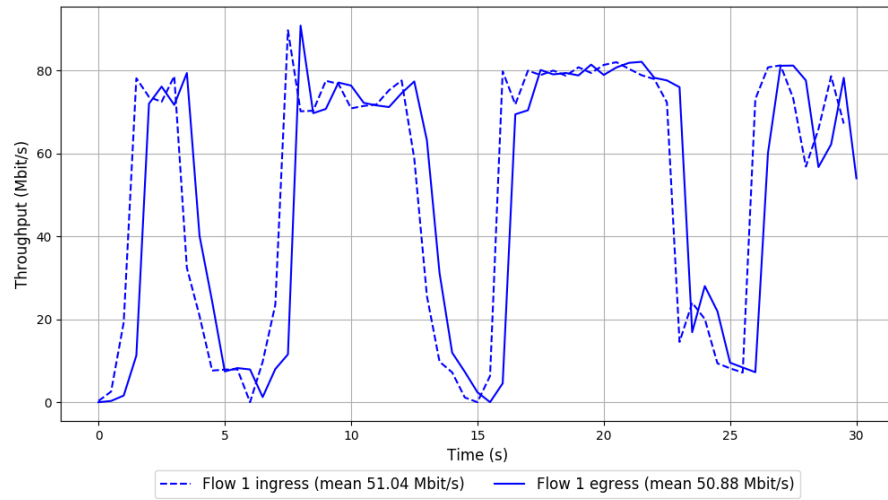
-- Flow 1:

Average throughput: 50.88 Mbit/s

95th percentile per-packet one-way delay: 86.548 ms

Loss rate: 0.88%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-06-30 01:52:25

End at: 2018-06-30 01:52:55

Local clock offset: 0.211 ms

Remote clock offset: 0.019 ms

Below is generated by plot.py at 2018-06-30 03:22:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 46.99 Mbit/s

95th percentile per-packet one-way delay: 86.587 ms

Loss rate: 0.71%

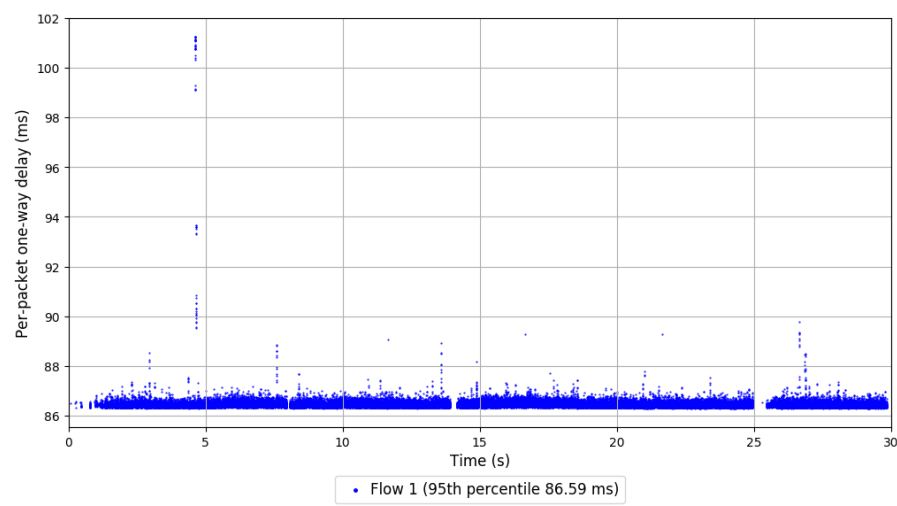
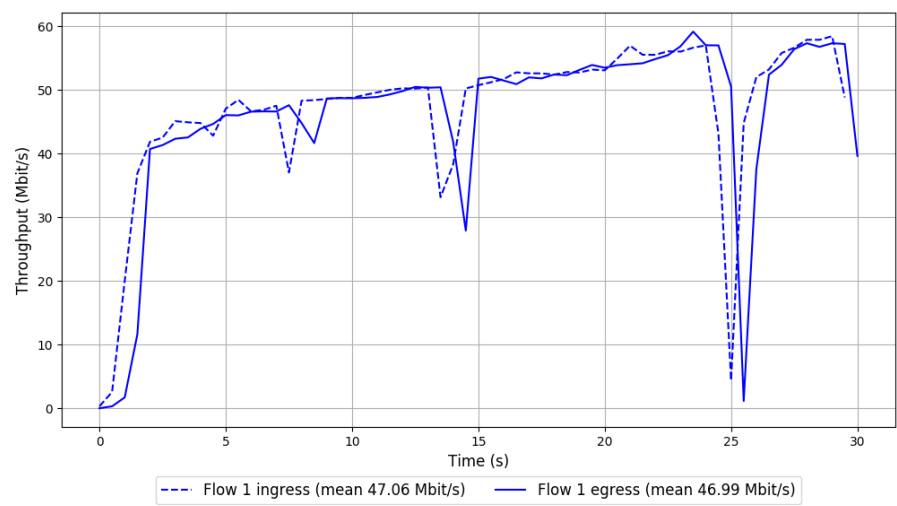
-- Flow 1:

Average throughput: 46.99 Mbit/s

95th percentile per-packet one-way delay: 86.587 ms

Loss rate: 0.71%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-06-30 02:13:19

End at: 2018-06-30 02:13:49

Local clock offset: 0.118 ms

Remote clock offset: -0.08 ms

Below is generated by plot.py at 2018-06-30 03:22:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 53.56 Mbit/s

95th percentile per-packet one-way delay: 86.542 ms

Loss rate: 0.82%

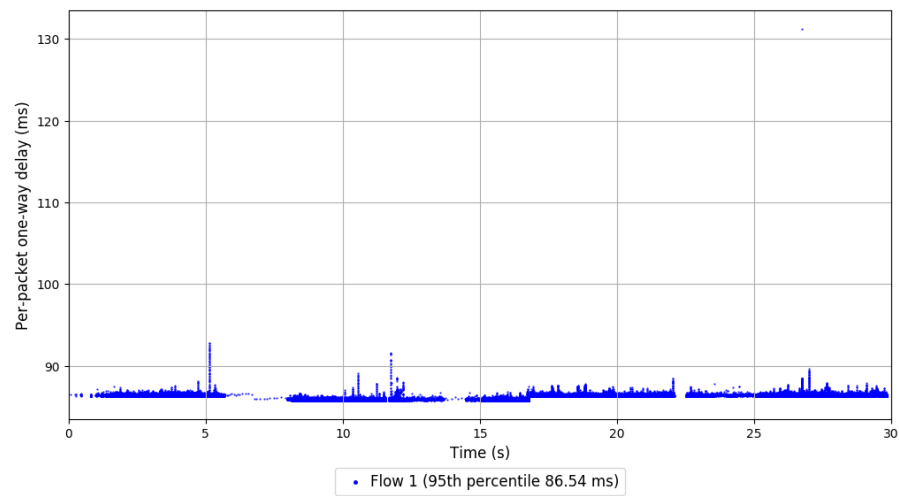
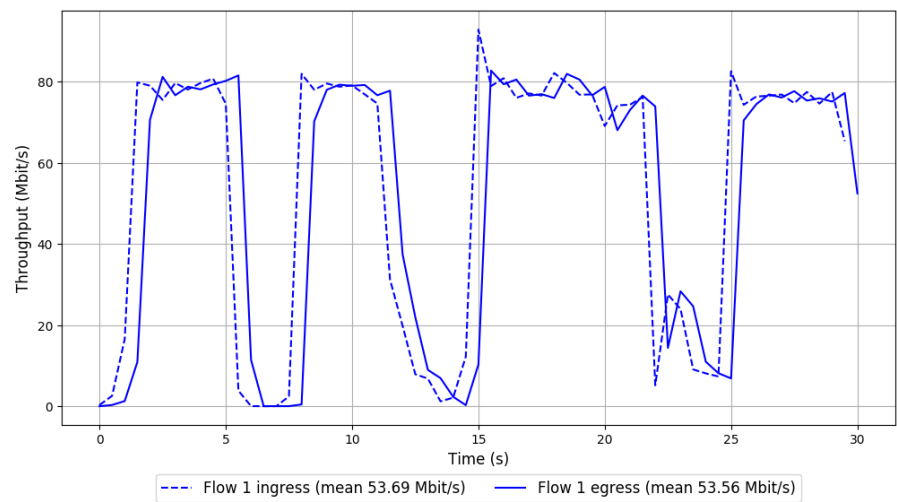
-- Flow 1:

Average throughput: 53.56 Mbit/s

95th percentile per-packet one-way delay: 86.542 ms

Loss rate: 0.82%

Run 10: Report of QUIC Cubic — Data Link

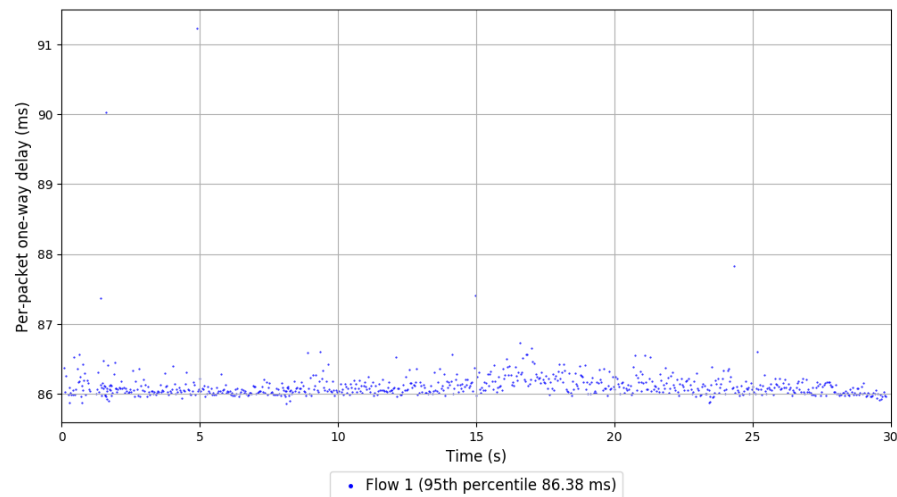
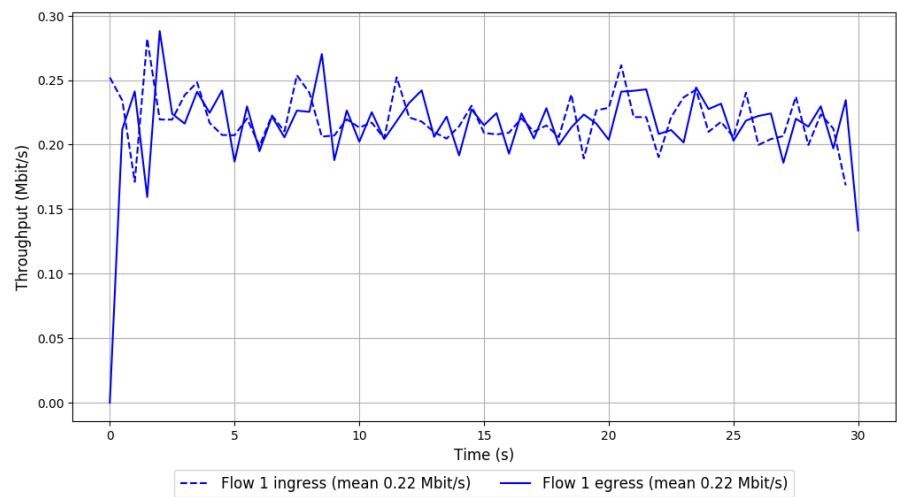


```
Run 1: Statistics of SCReAM

Start at: 2018-06-29 23:14:47
End at: 2018-06-29 23:15:17
Local clock offset: 0.113 ms
Remote clock offset: -0.016 ms

# Below is generated by plot.py at 2018-06-30 03:22:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.380 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.380 ms
Loss rate: 0.52%
```


Run 1: Report of SReAM — Data Link

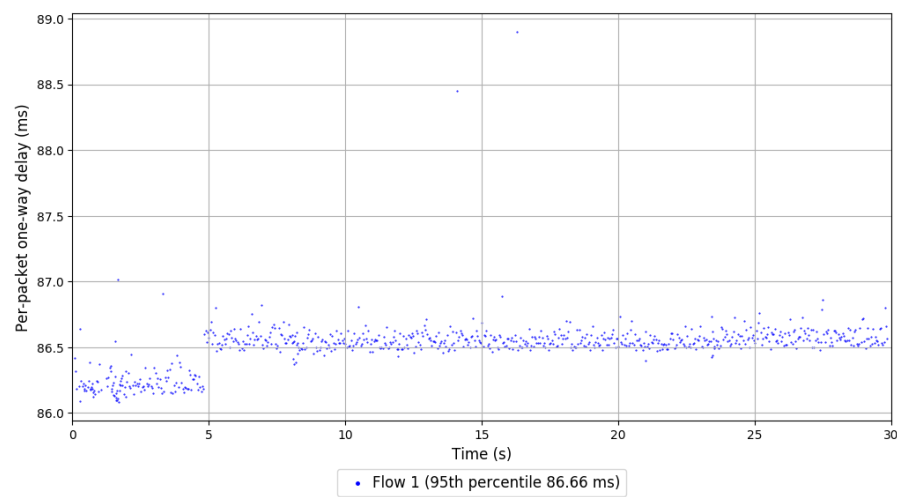
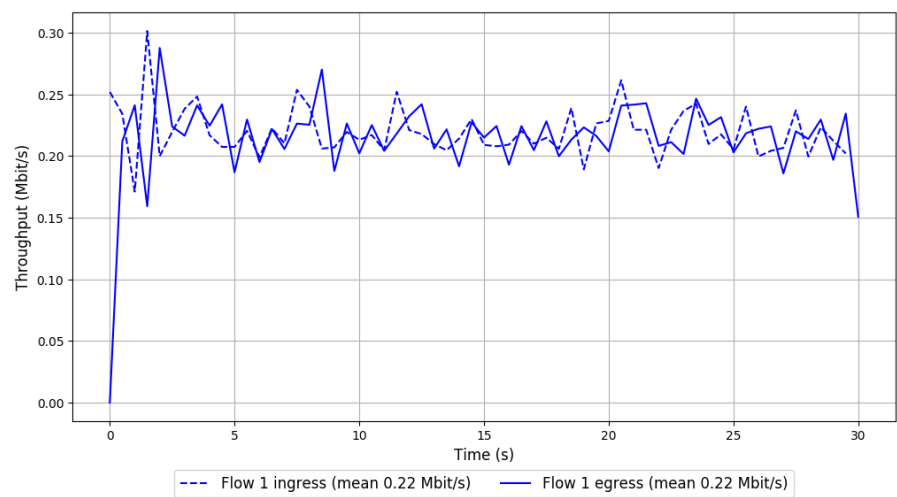


```
Run 2: Statistics of SCReAM

Start at: 2018-06-29 23:35:51
End at: 2018-06-29 23:36:21
Local clock offset: 0.191 ms
Remote clock offset: 0.009 ms

# Below is generated by plot.py at 2018-06-30 03:22:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.659 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.659 ms
Loss rate: 0.64%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-06-29 23:57:05

End at: 2018-06-29 23:57:36

Local clock offset: 0.086 ms

Remote clock offset: -0.05 ms

Below is generated by plot.py at 2018-06-30 03:22:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.250 ms

Loss rate: 0.64%

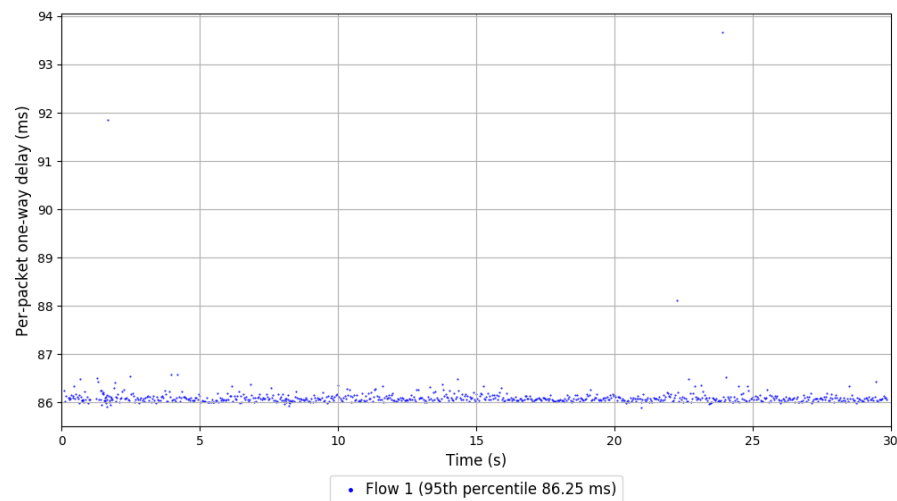
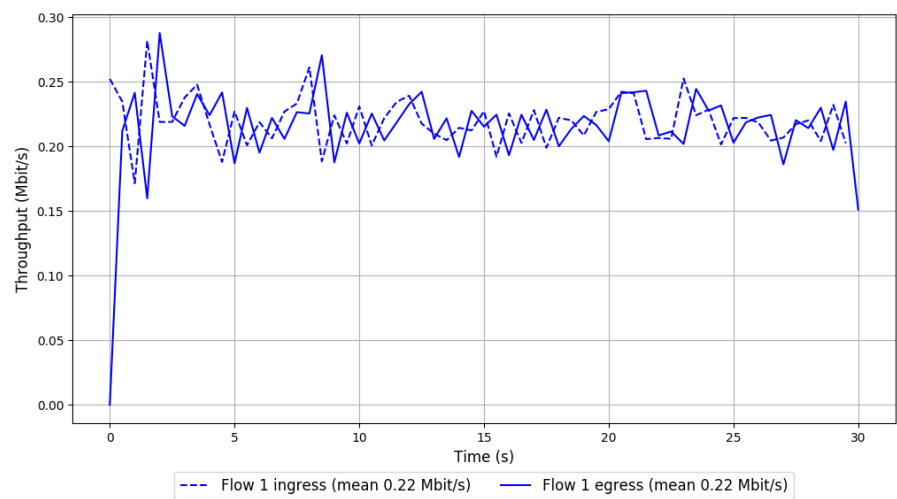
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.250 ms

Loss rate: 0.64%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2018-06-30 00:17:59

End at: 2018-06-30 00:18:29

Local clock offset: 0.043 ms

Remote clock offset: 0.095 ms

Below is generated by plot.py at 2018-06-30 03:22:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.707 ms

Loss rate: 0.64%

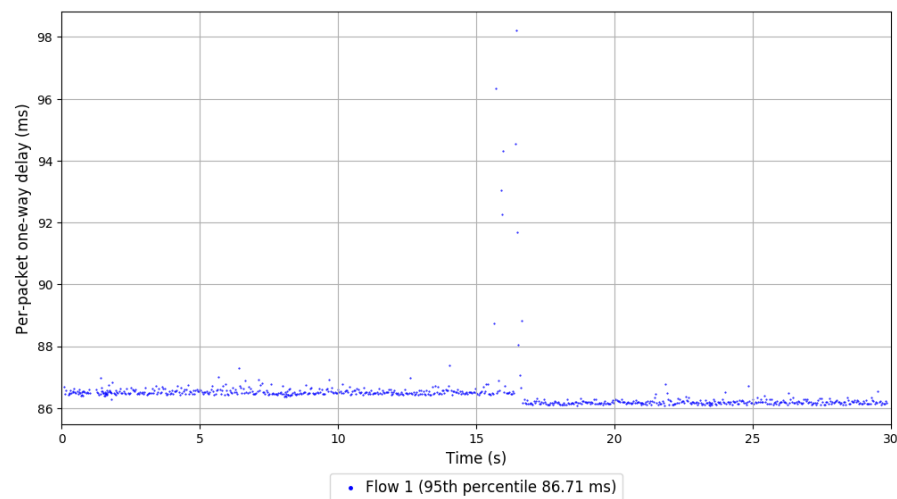
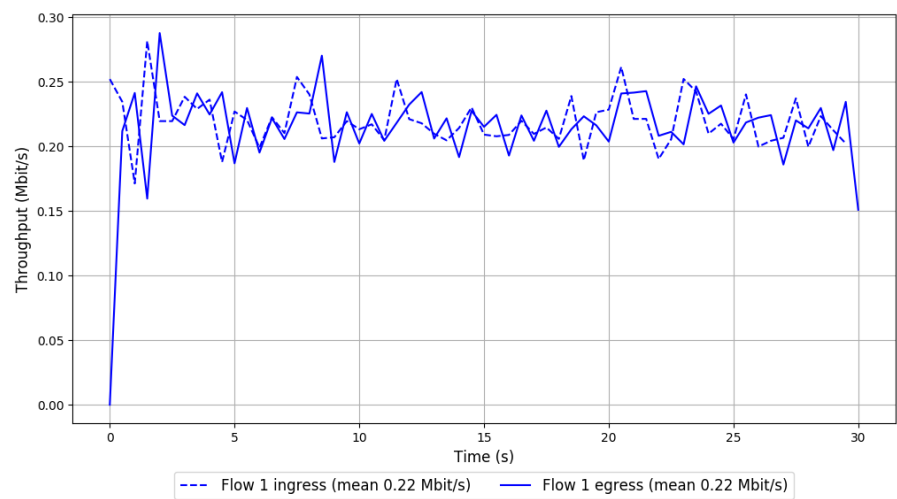
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.707 ms

Loss rate: 0.64%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-06-30 00:39:16

End at: 2018-06-30 00:39:46

Local clock offset: 0.196 ms

Remote clock offset: 0.215 ms

Below is generated by plot.py at 2018-06-30 03:22:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.909 ms

Loss rate: 0.64%

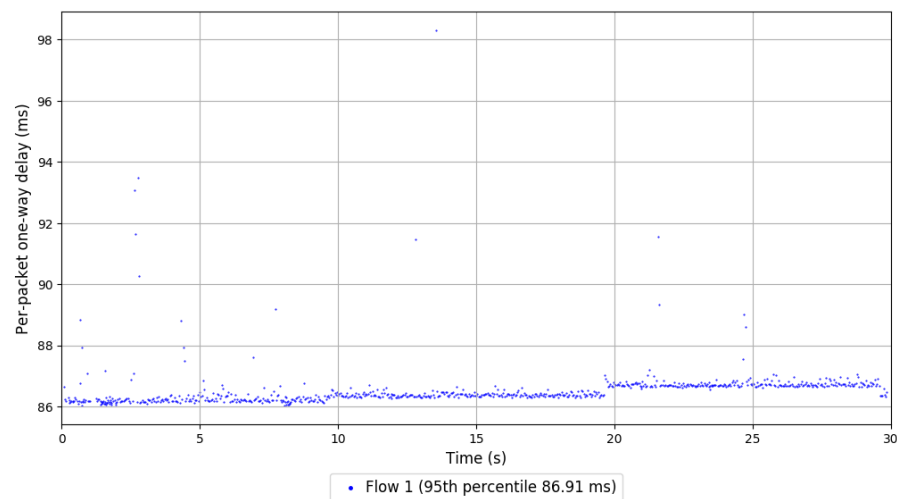
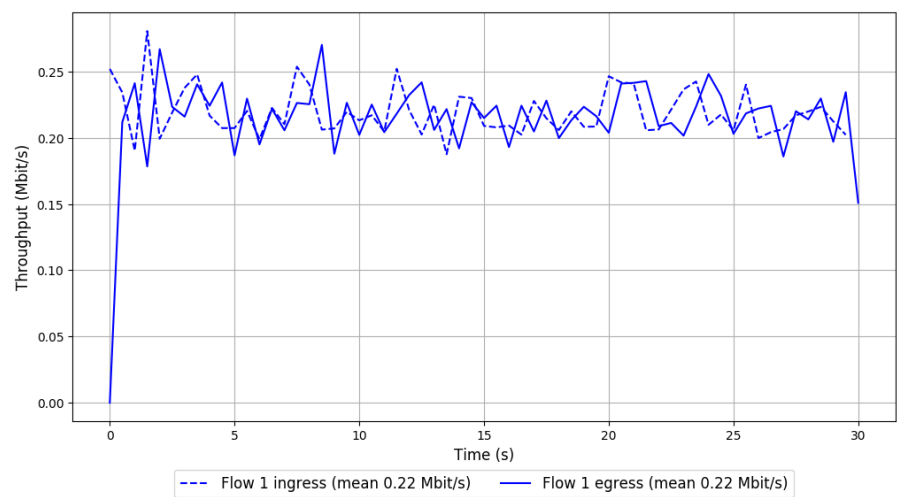
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.909 ms

Loss rate: 0.64%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-06-30 01:00:14

End at: 2018-06-30 01:00:44

Local clock offset: 0.16 ms

Remote clock offset: 0.246 ms

Below is generated by plot.py at 2018-06-30 03:22:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.305 ms

Loss rate: 0.51%

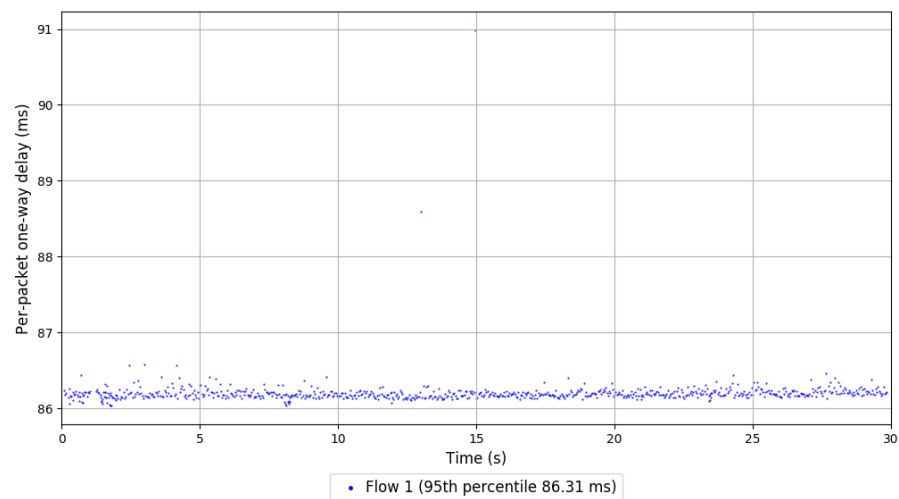
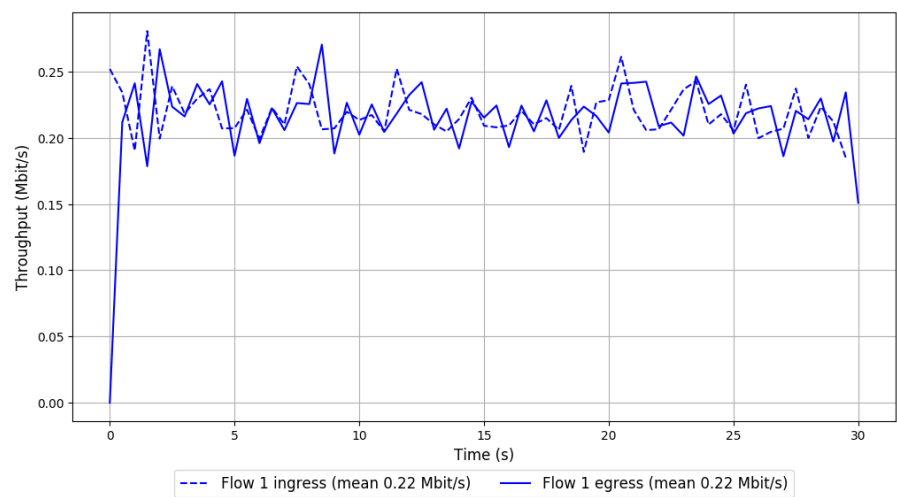
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.305 ms

Loss rate: 0.51%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2018-06-30 01:21:14

End at: 2018-06-30 01:21:44

Local clock offset: 0.205 ms

Remote clock offset: 0.137 ms

Below is generated by plot.py at 2018-06-30 03:22:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.735 ms

Loss rate: 0.51%

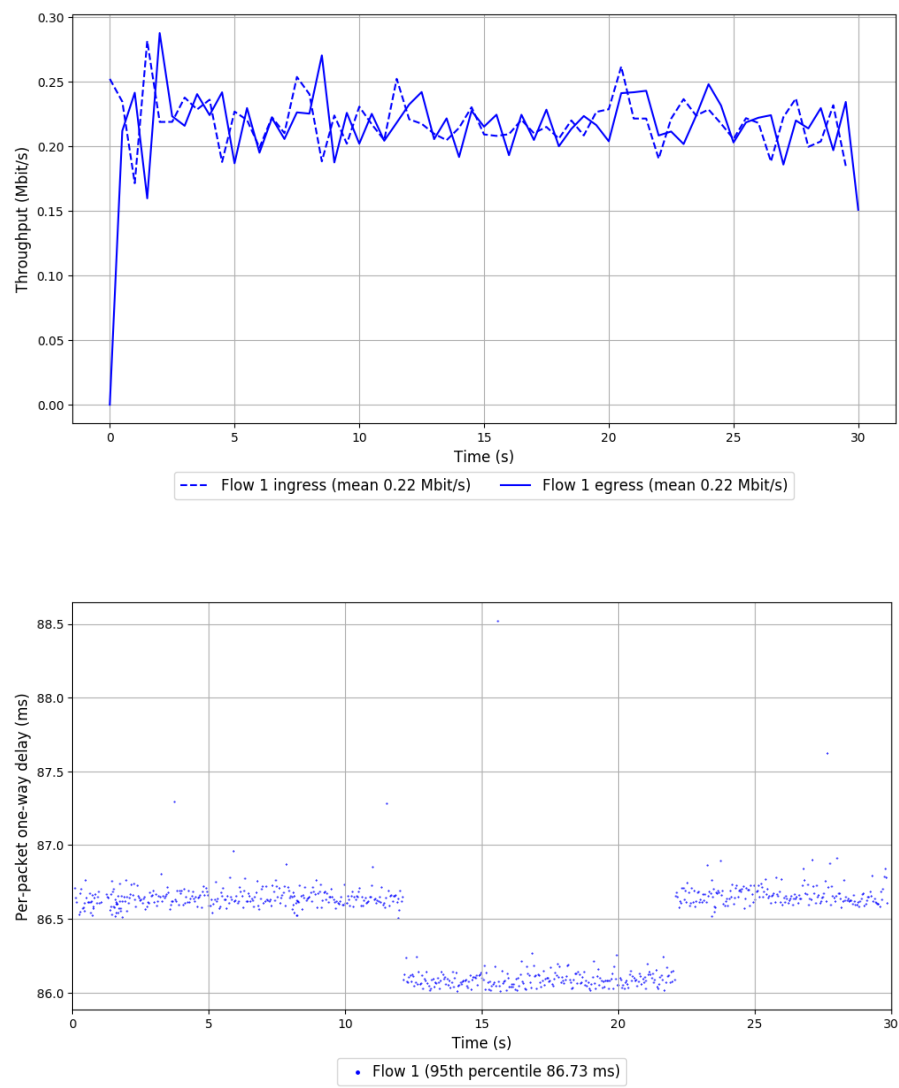
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.735 ms

Loss rate: 0.51%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-06-30 01:42:28

End at: 2018-06-30 01:42:58

Local clock offset: 0.083 ms

Remote clock offset: 0.022 ms

Below is generated by plot.py at 2018-06-30 03:22:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.615 ms

Loss rate: 0.64%

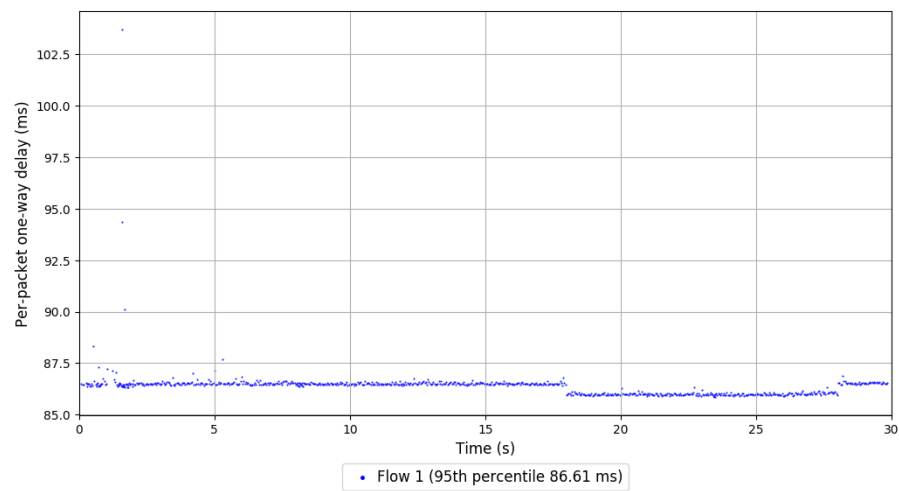
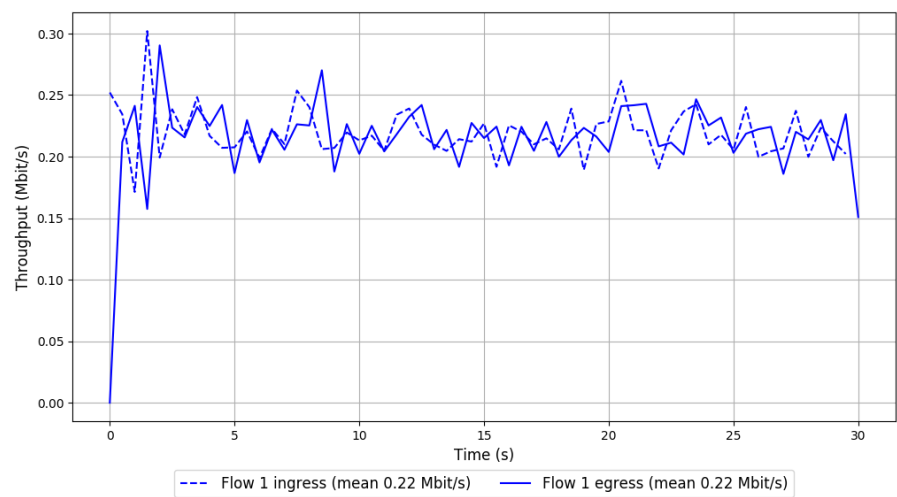
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.615 ms

Loss rate: 0.64%

Run 8: Report of SReAM — Data Link

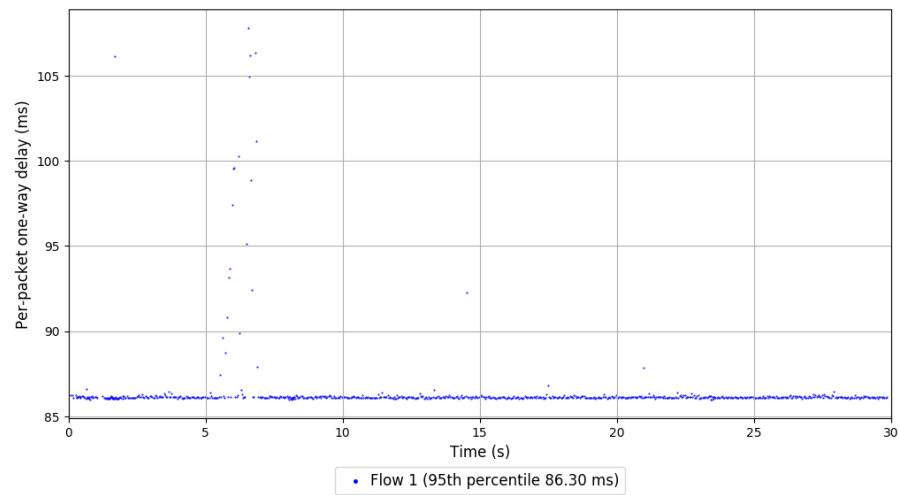
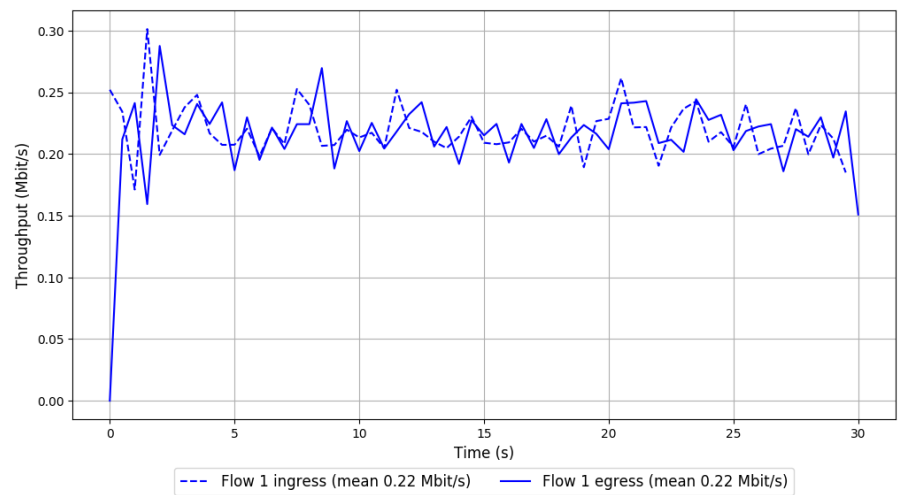


Run 9: Statistics of SCReAM

Start at: 2018-06-30 02:03:15
End at: 2018-06-30 02:03:45
Local clock offset: 0.265 ms
Remote clock offset: -0.075 ms

Below is generated by plot.py at 2018-06-30 03:22:21
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.295 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.295 ms
Loss rate: 0.51%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-06-30 02:24:24

End at: 2018-06-30 02:24:54

Local clock offset: 0.127 ms

Remote clock offset: -0.09 ms

Below is generated by plot.py at 2018-06-30 03:22:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.272 ms

Loss rate: 0.51%

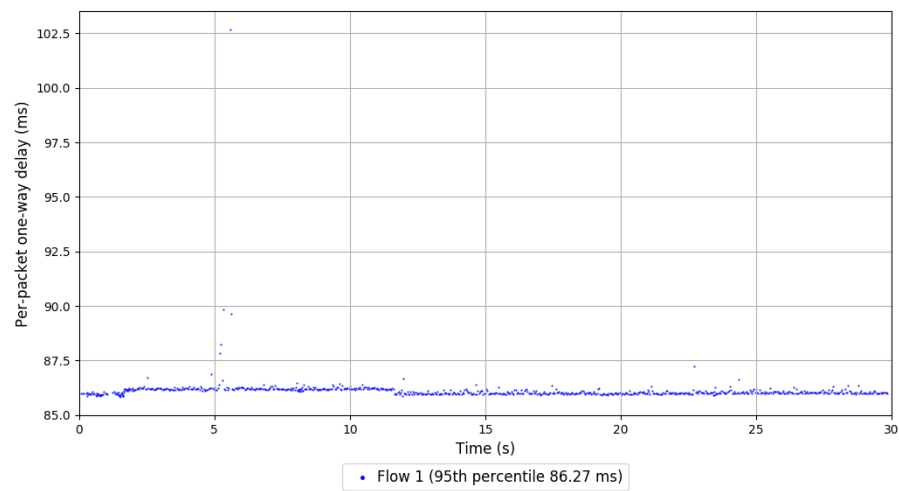
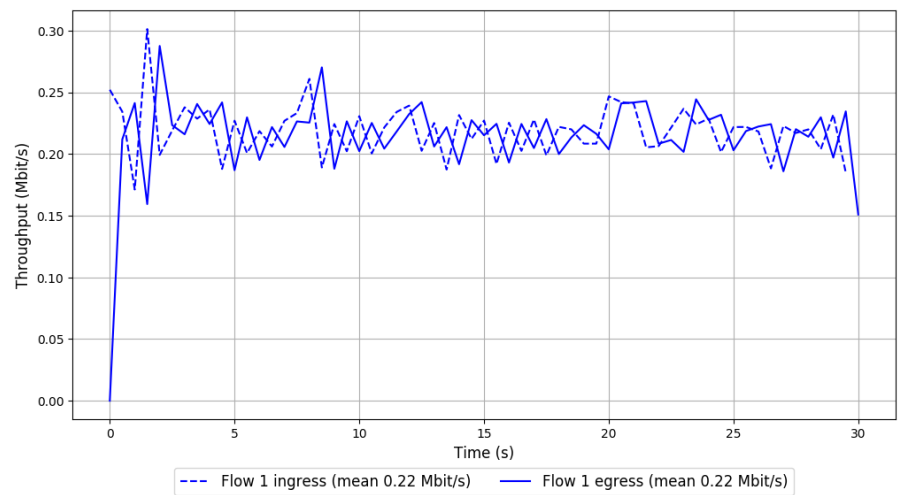
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.272 ms

Loss rate: 0.51%

Run 10: Report of SReAM — Data Link

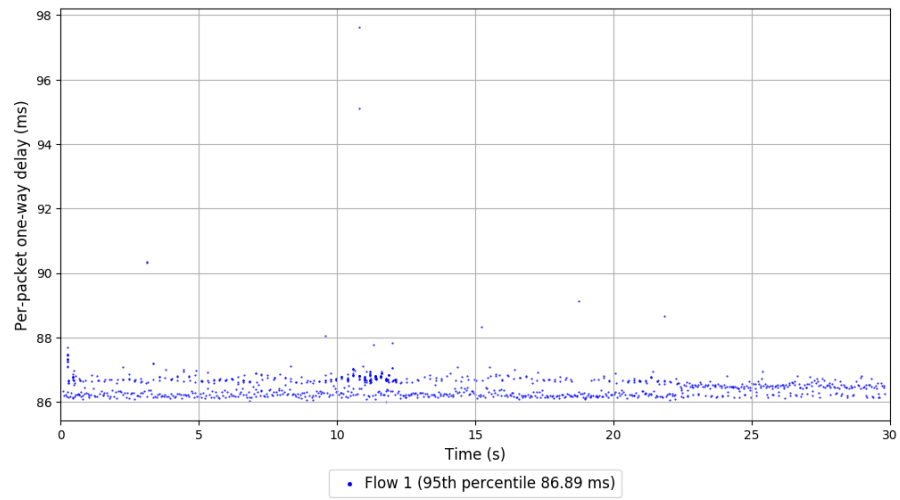
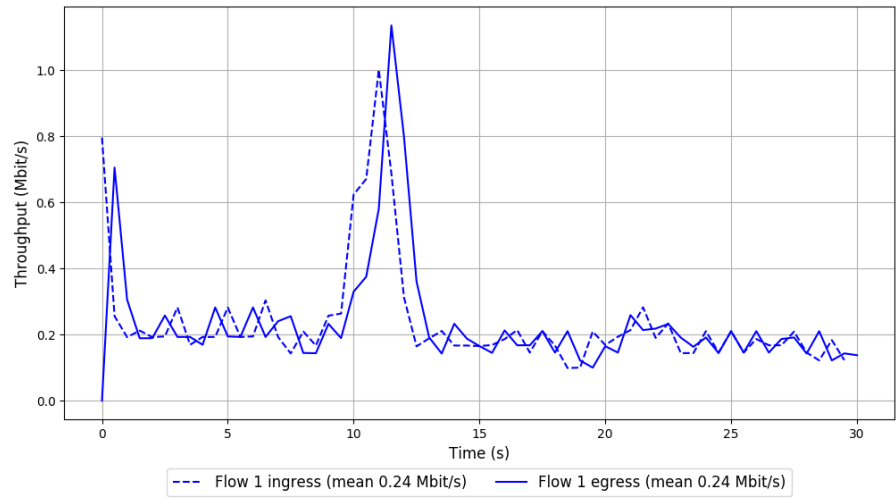


Run 1: Statistics of Sprout

Start at: 2018-06-29 23:15:53
End at: 2018-06-29 23:16:23
Local clock offset: 0.211 ms
Remote clock offset: -0.088 ms

Below is generated by plot.py at 2018-06-30 03:22:21
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.24 Mbit/s
95th percentile per-packet one-way delay: 86.895 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 0.24 Mbit/s
95th percentile per-packet one-way delay: 86.895 ms
Loss rate: 0.20%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-06-29 23:36:57

End at: 2018-06-29 23:37:28

Local clock offset: 0.082 ms

Remote clock offset: 0.017 ms

Below is generated by plot.py at 2018-06-30 03:22:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 86.747 ms

Loss rate: 0.79%

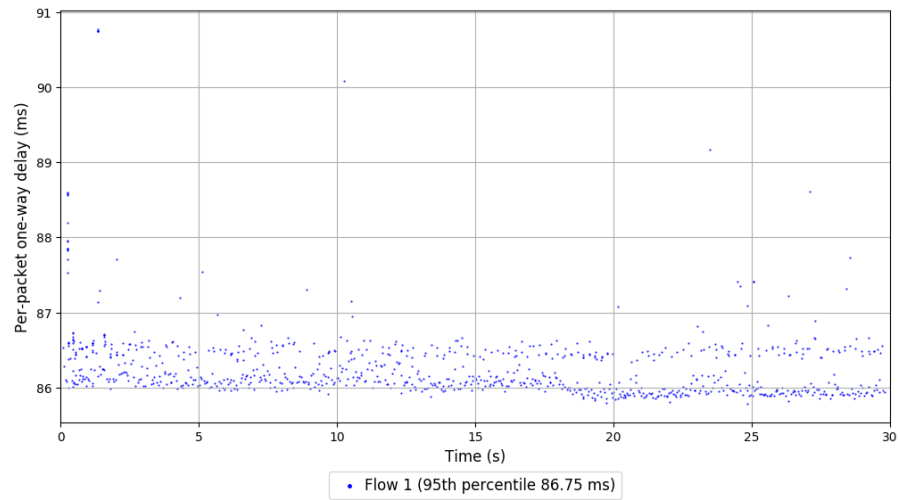
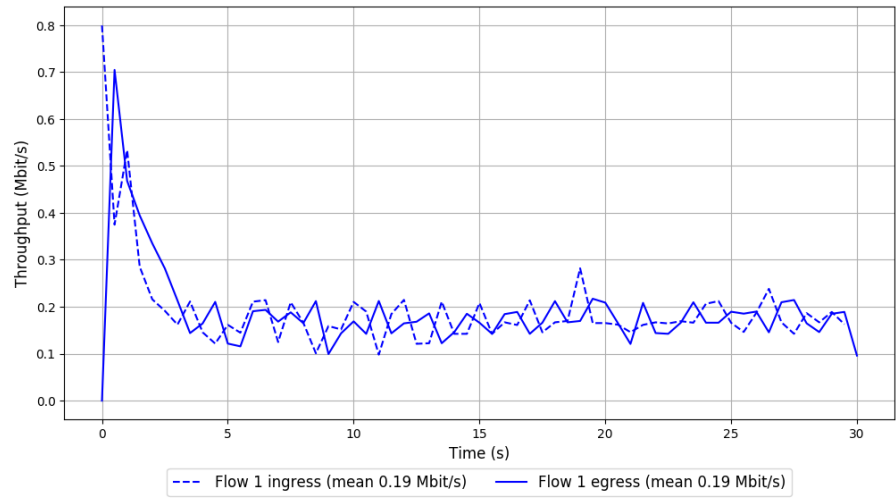
-- Flow 1:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 86.747 ms

Loss rate: 0.79%

Run 2: Report of Sprout — Data Link

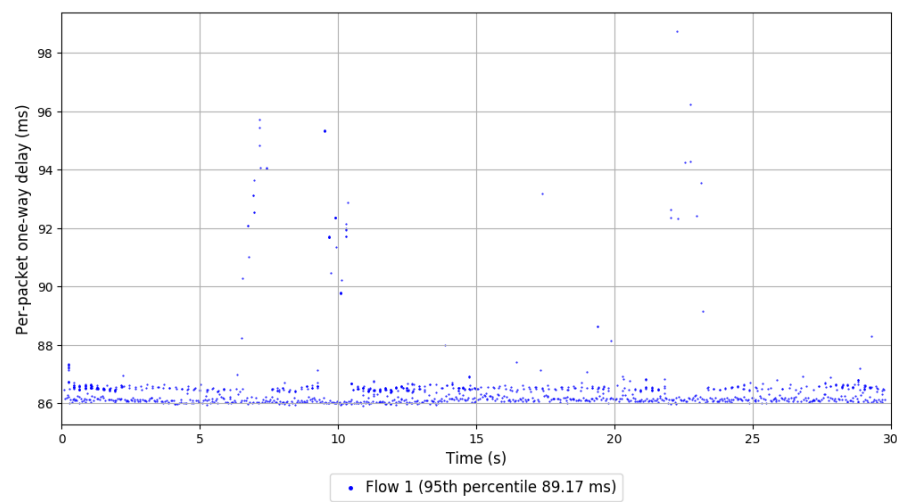
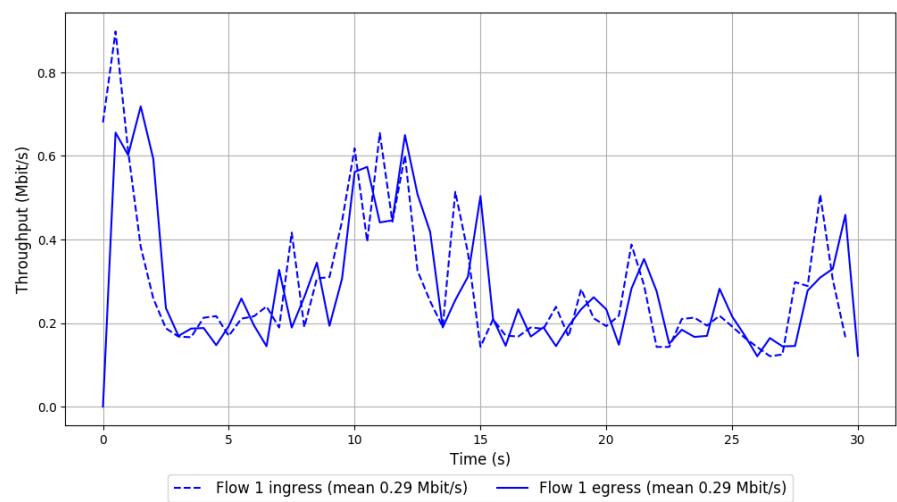


Run 3: Statistics of Sprout

Start at: 2018-06-29 23:58:12
End at: 2018-06-29 23:58:42
Local clock offset: 0.097 ms
Remote clock offset: -0.015 ms

Below is generated by plot.py at 2018-06-30 03:22:21
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.29 Mbit/s
95th percentile per-packet one-way delay: 89.167 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 0.29 Mbit/s
95th percentile per-packet one-way delay: 89.167 ms
Loss rate: 0.40%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-06-30 00:19:06

End at: 2018-06-30 00:19:36

Local clock offset: 0.173 ms

Remote clock offset: 0.147 ms

Below is generated by plot.py at 2018-06-30 03:22:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.27 Mbit/s

95th percentile per-packet one-way delay: 86.766 ms

Loss rate: 0.59%

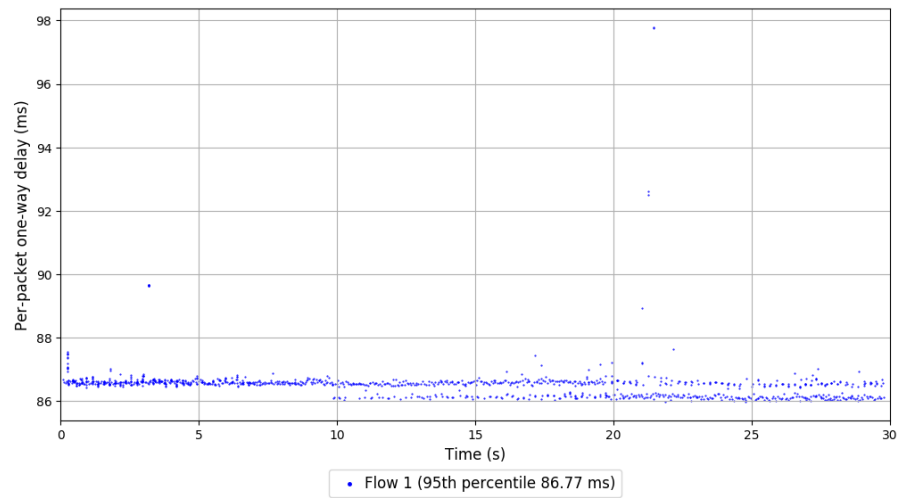
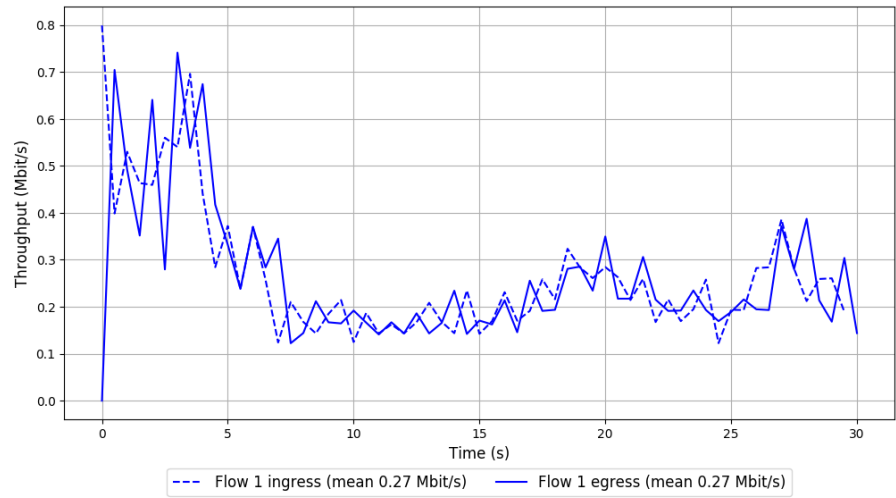
-- Flow 1:

Average throughput: 0.27 Mbit/s

95th percentile per-packet one-way delay: 86.766 ms

Loss rate: 0.59%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-06-30 00:40:23

End at: 2018-06-30 00:40:53

Local clock offset: 0.012 ms

Remote clock offset: 0.144 ms

Below is generated by plot.py at 2018-06-30 03:22:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 86.867 ms

Loss rate: 0.57%

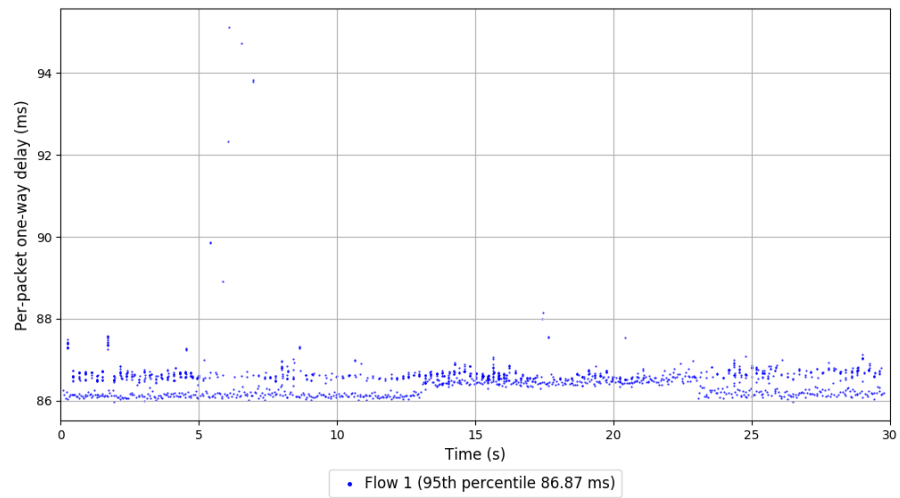
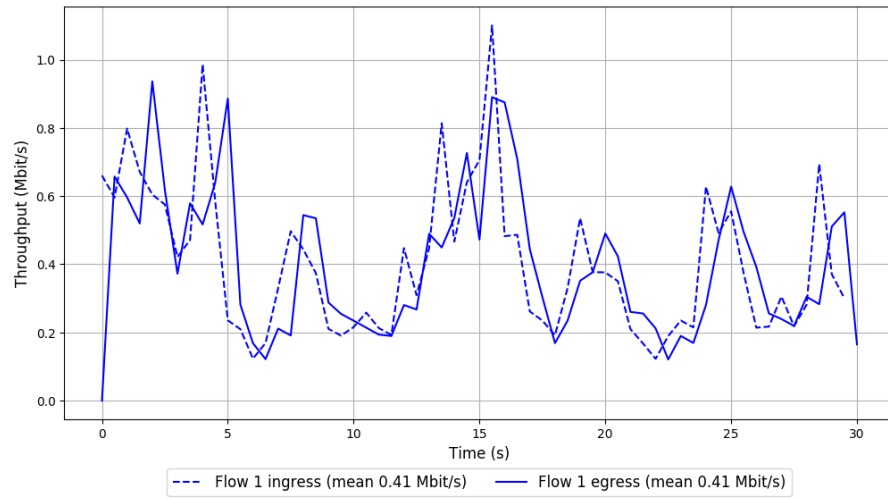
-- Flow 1:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 86.867 ms

Loss rate: 0.57%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-06-30 01:01:21

End at: 2018-06-30 01:01:51

Local clock offset: 0.295 ms

Remote clock offset: 0.222 ms

Below is generated by plot.py at 2018-06-30 03:22:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.26 Mbit/s

95th percentile per-packet one-way delay: 87.105 ms

Loss rate: 0.45%

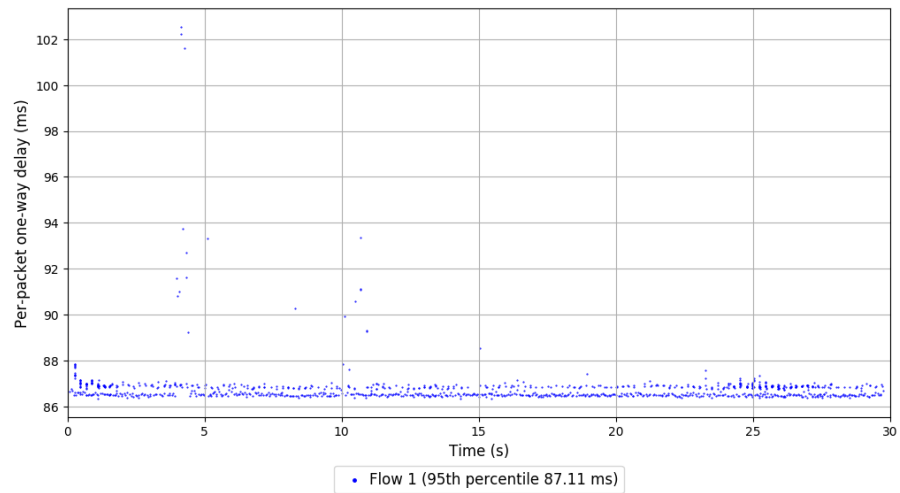
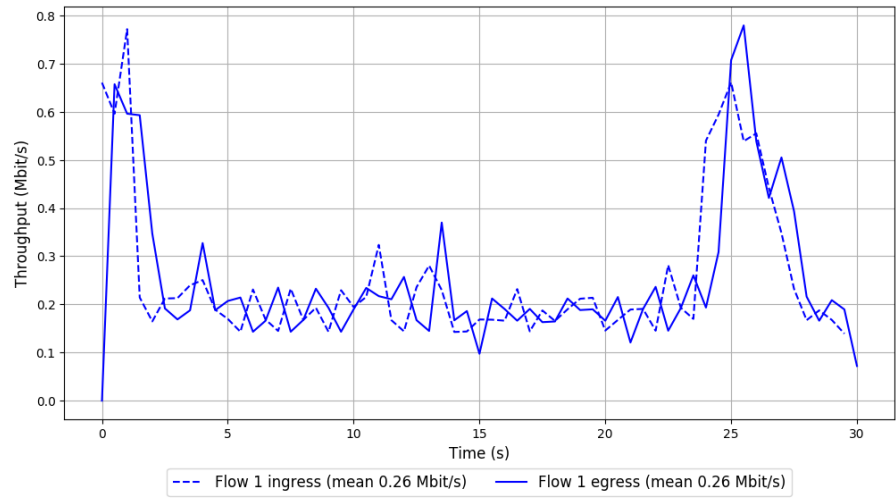
-- Flow 1:

Average throughput: 0.26 Mbit/s

95th percentile per-packet one-way delay: 87.105 ms

Loss rate: 0.45%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-06-30 01:22:20

End at: 2018-06-30 01:22:50

Local clock offset: 0.108 ms

Remote clock offset: 0.157 ms

Below is generated by plot.py at 2018-06-30 03:22:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.31 Mbit/s

95th percentile per-packet one-way delay: 88.125 ms

Loss rate: 0.03%

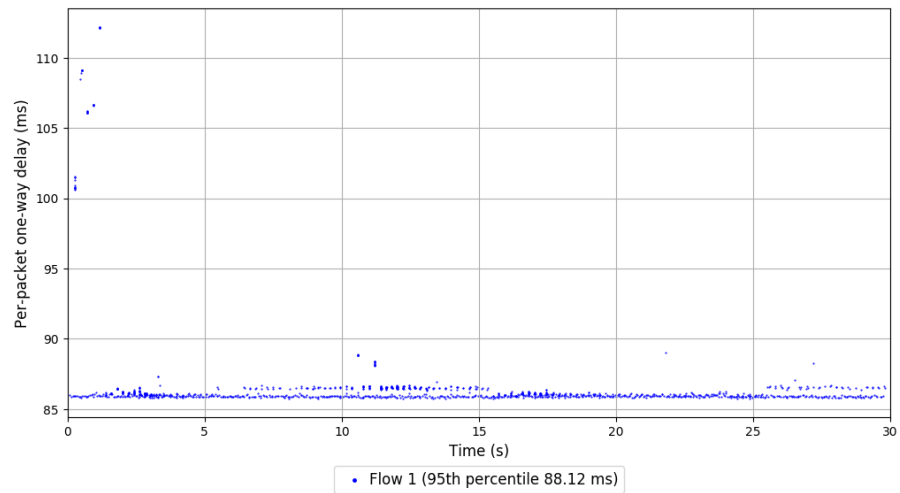
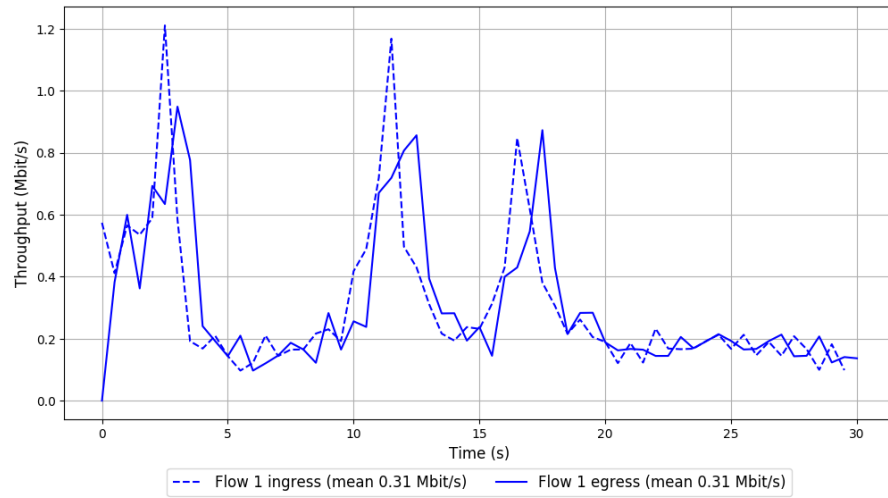
-- Flow 1:

Average throughput: 0.31 Mbit/s

95th percentile per-packet one-way delay: 88.125 ms

Loss rate: 0.03%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-06-30 01:43:35

End at: 2018-06-30 01:44:05

Local clock offset: 0.29 ms

Remote clock offset: 0.082 ms

Below is generated by plot.py at 2018-06-30 03:22:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.27 Mbit/s

95th percentile per-packet one-way delay: 86.888 ms

Loss rate: 1.72%

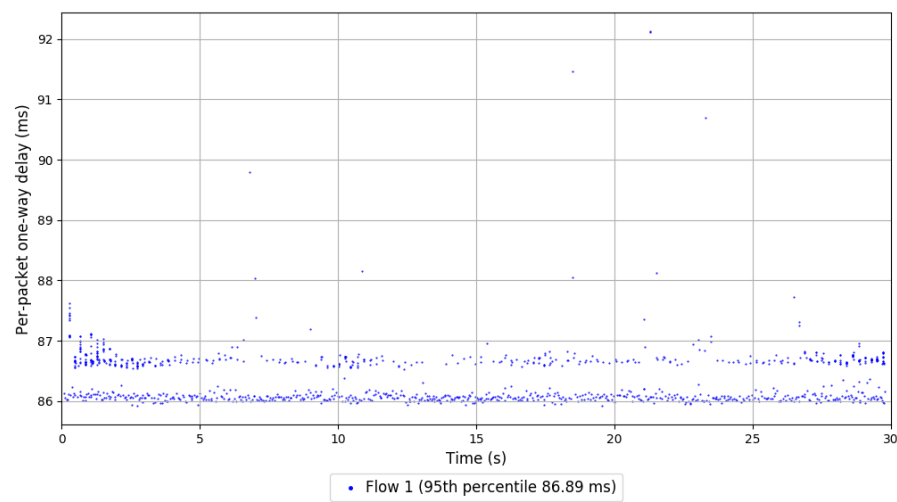
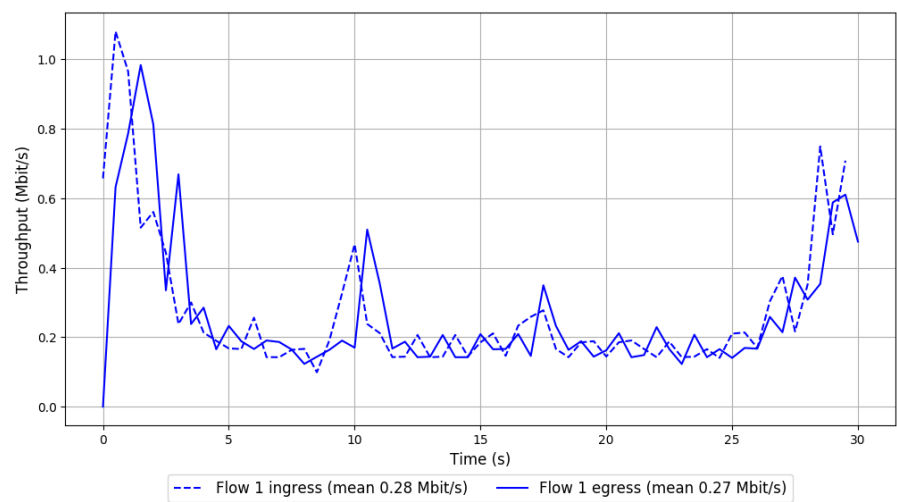
-- Flow 1:

Average throughput: 0.27 Mbit/s

95th percentile per-packet one-way delay: 86.888 ms

Loss rate: 1.72%

Run 8: Report of Sprout — Data Link

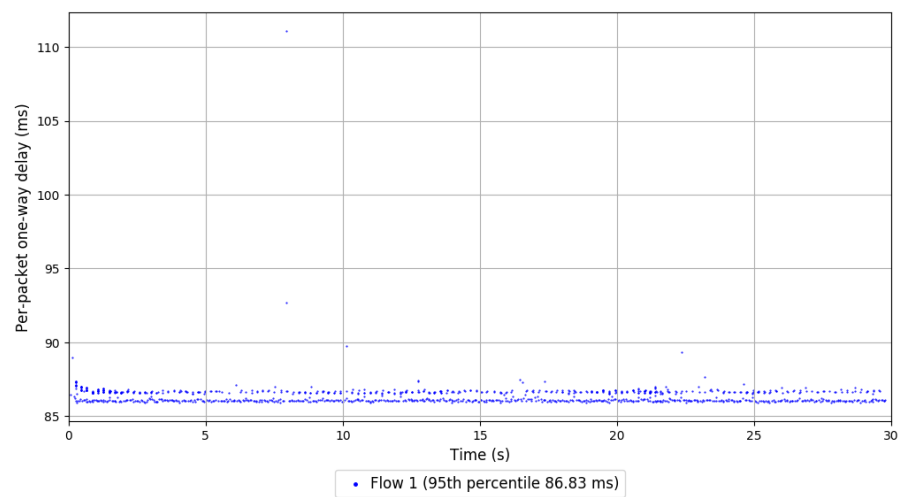
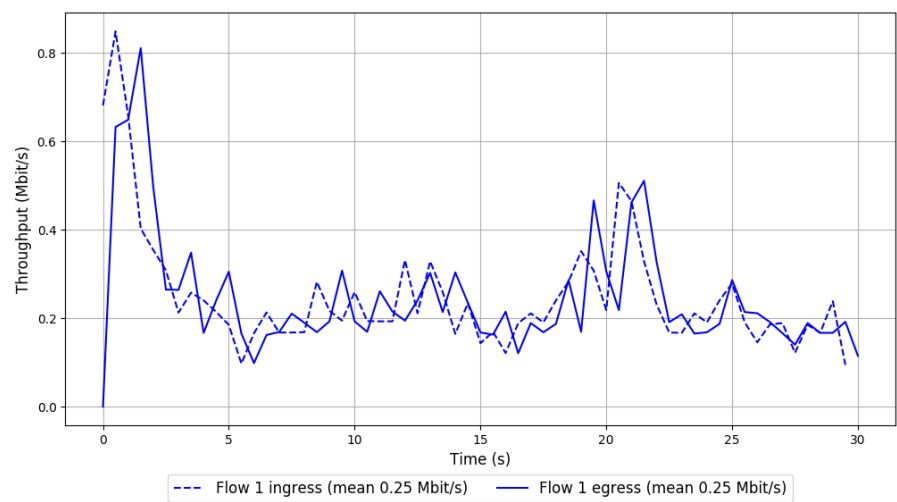


Run 9: Statistics of Sprout

Start at: 2018-06-30 02:04:21
End at: 2018-06-30 02:04:51
Local clock offset: 0.244 ms
Remote clock offset: -0.073 ms

Below is generated by plot.py at 2018-06-30 03:22:21
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.25 Mbit/s
95th percentile per-packet one-way delay: 86.828 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 0.25 Mbit/s
95th percentile per-packet one-way delay: 86.828 ms
Loss rate: 0.31%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-06-30 02:25:31

End at: 2018-06-30 02:26:01

Local clock offset: 0.177 ms

Remote clock offset: -0.069 ms

Below is generated by plot.py at 2018-06-30 03:22:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.27 Mbit/s

95th percentile per-packet one-way delay: 86.739 ms

Loss rate: 0.45%

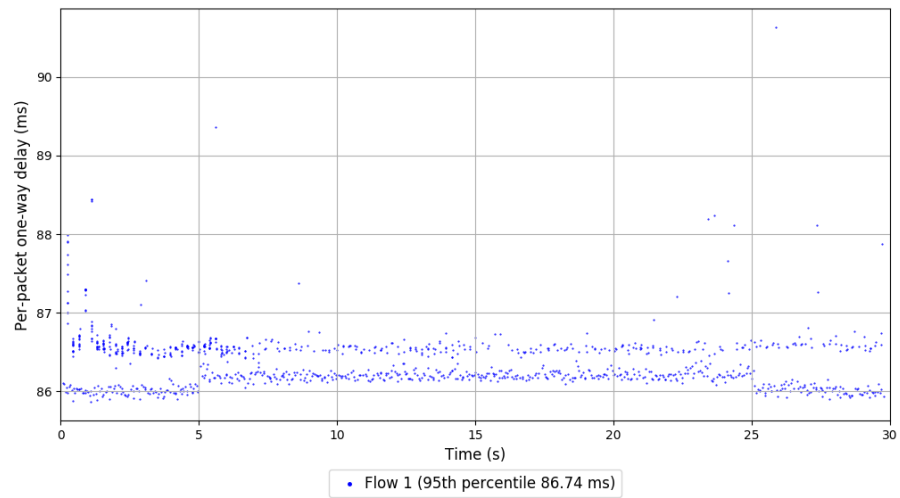
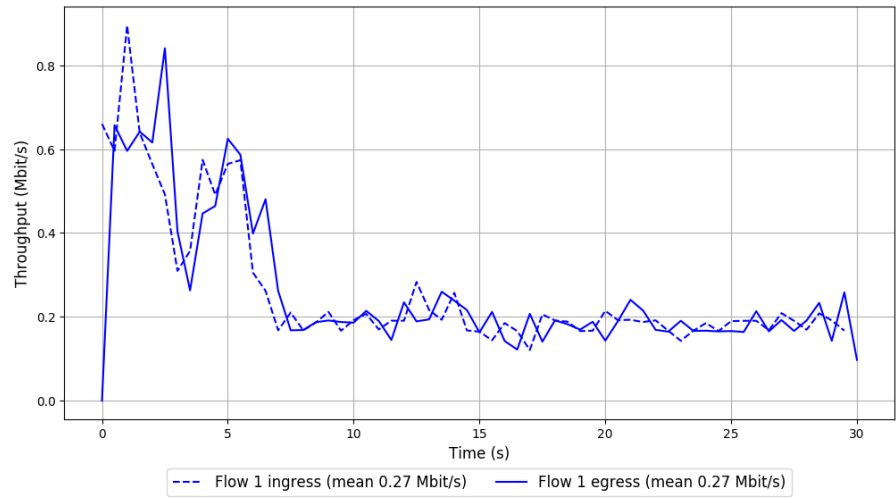
-- Flow 1:

Average throughput: 0.27 Mbit/s

95th percentile per-packet one-way delay: 86.739 ms

Loss rate: 0.45%

Run 10: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

Start at: 2018-06-29 23:04:58

End at: 2018-06-29 23:05:28

Local clock offset: 0.065 ms

Remote clock offset: -0.075 ms

Below is generated by plot.py at 2018-06-30 03:25:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 174.99 Mbit/s

95th percentile per-packet one-way delay: 88.403 ms

Loss rate: 0.61%

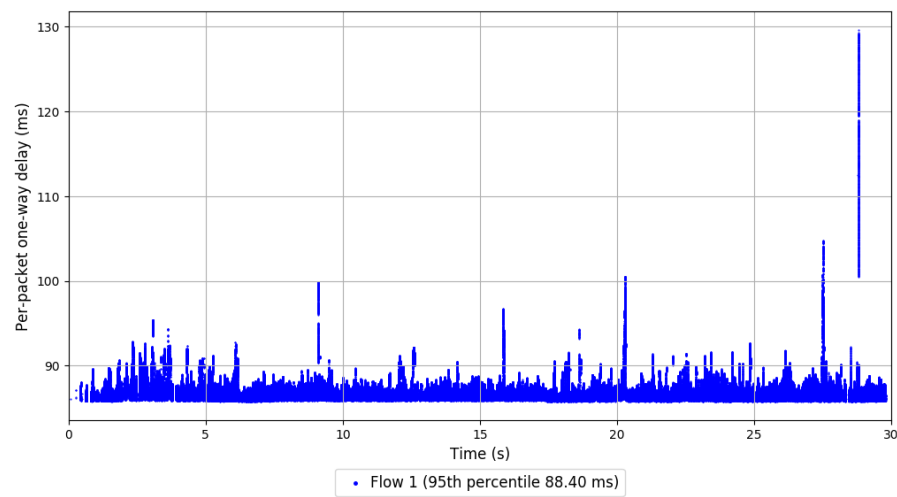
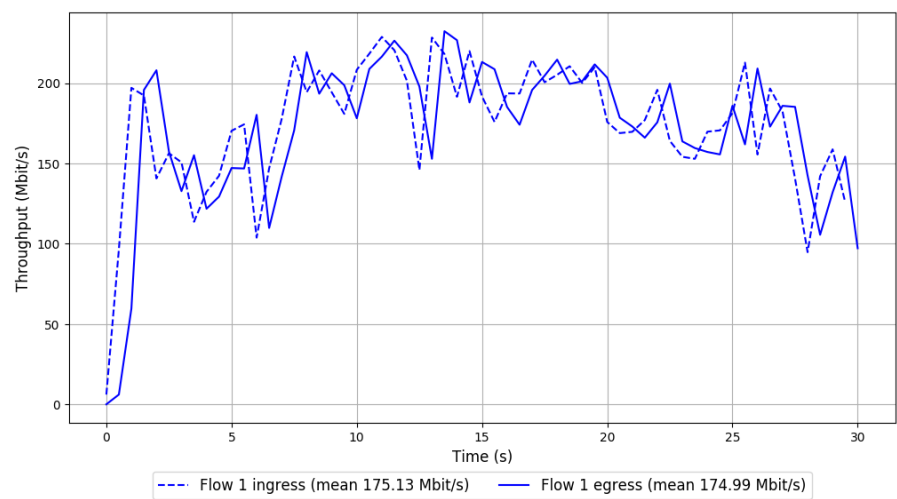
-- Flow 1:

Average throughput: 174.99 Mbit/s

95th percentile per-packet one-way delay: 88.403 ms

Loss rate: 0.61%

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



Run 2: Statistics of TaoVA-100x

Start at: 2018-06-29 23:25:54

End at: 2018-06-29 23:26:24

Local clock offset: 0.321 ms

Remote clock offset: -0.014 ms

Below is generated by plot.py at 2018-06-30 03:25:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 163.89 Mbit/s

95th percentile per-packet one-way delay: 89.521 ms

Loss rate: 0.50%

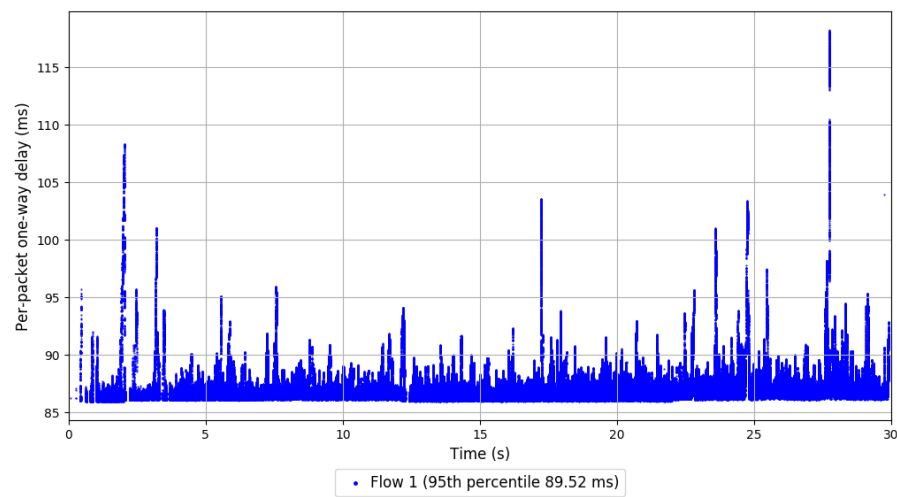
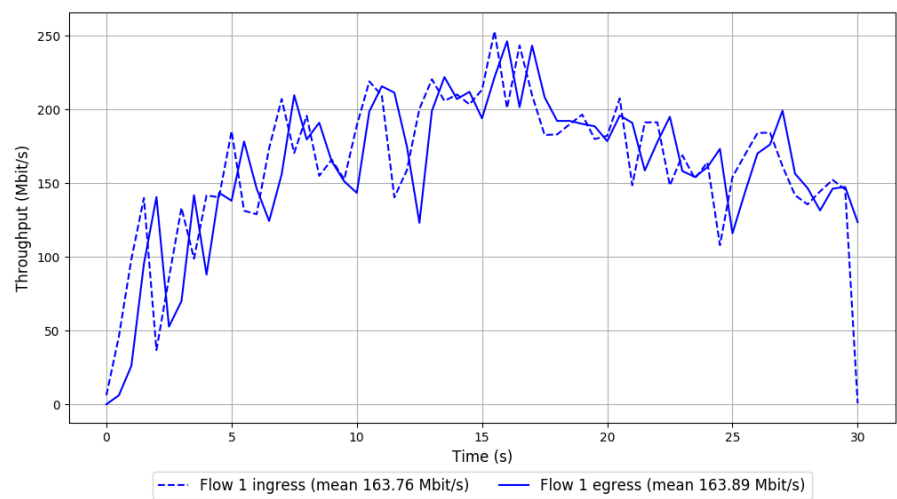
-- Flow 1:

Average throughput: 163.89 Mbit/s

95th percentile per-packet one-way delay: 89.521 ms

Loss rate: 0.50%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-06-29 23:47:00

End at: 2018-06-29 23:47:30

Local clock offset: 0.076 ms

Remote clock offset: 0.006 ms

Below is generated by plot.py at 2018-06-30 03:25:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 173.02 Mbit/s

95th percentile per-packet one-way delay: 88.924 ms

Loss rate: 0.46%

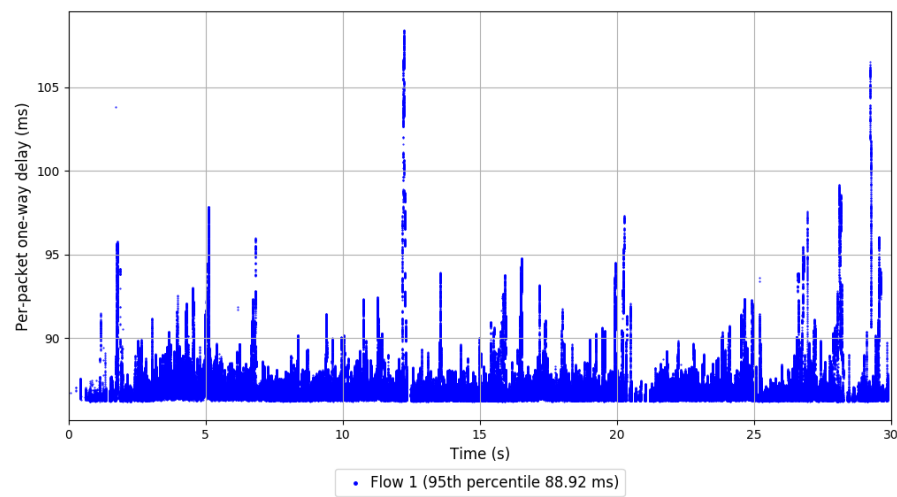
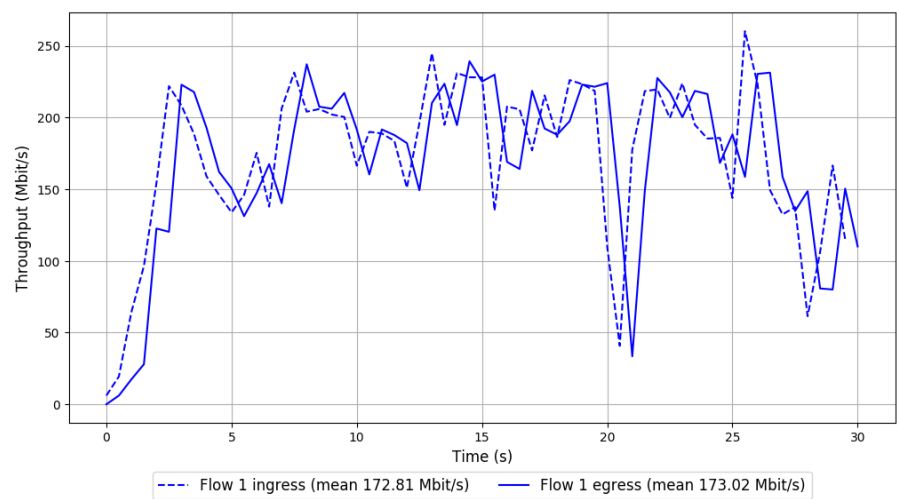
-- Flow 1:

Average throughput: 173.02 Mbit/s

95th percentile per-packet one-way delay: 88.924 ms

Loss rate: 0.46%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-06-30 00:07:57

End at: 2018-06-30 00:08:27

Local clock offset: 0.217 ms

Remote clock offset: 0.025 ms

Below is generated by plot.py at 2018-06-30 03:25:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 132.89 Mbit/s

95th percentile per-packet one-way delay: 89.135 ms

Loss rate: 0.91%

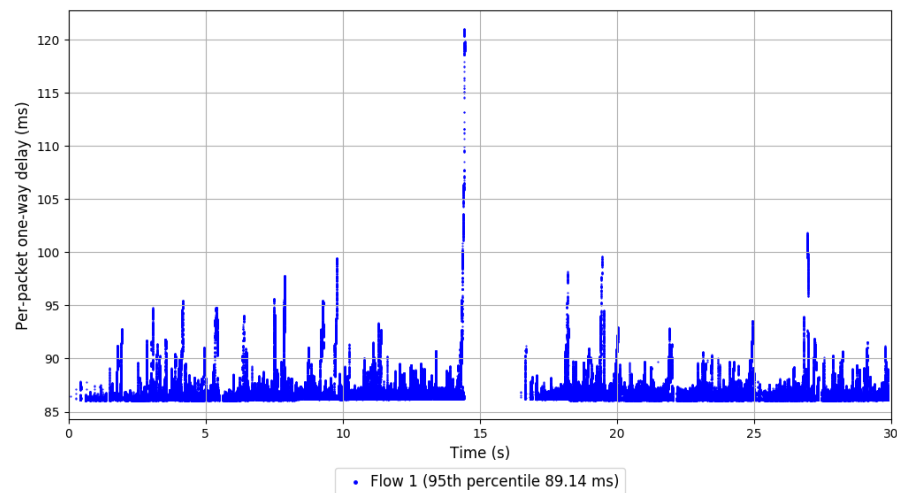
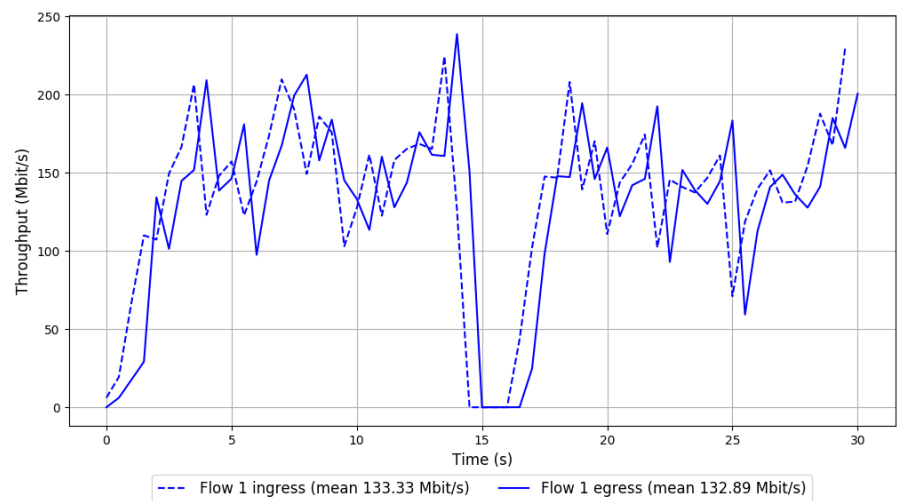
-- Flow 1:

Average throughput: 132.89 Mbit/s

95th percentile per-packet one-way delay: 89.135 ms

Loss rate: 0.91%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-06-30 00:29:11

End at: 2018-06-30 00:29:41

Local clock offset: 0.051 ms

Remote clock offset: 0.119 ms

Below is generated by plot.py at 2018-06-30 03:25:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 143.48 Mbit/s

95th percentile per-packet one-way delay: 89.356 ms

Loss rate: 0.04%

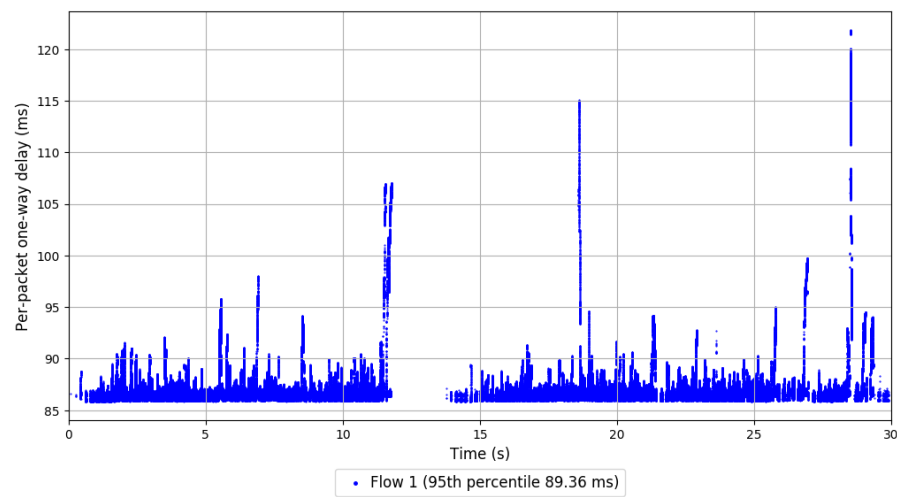
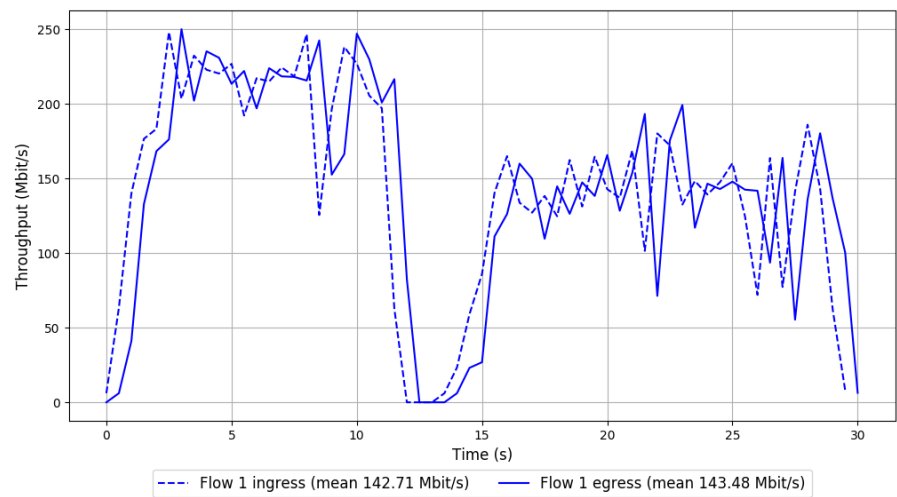
-- Flow 1:

Average throughput: 143.48 Mbit/s

95th percentile per-packet one-way delay: 89.356 ms

Loss rate: 0.04%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-06-30 00:50:16

End at: 2018-06-30 00:50:46

Local clock offset: -0.006 ms

Remote clock offset: 0.238 ms

Below is generated by plot.py at 2018-06-30 03:25:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 111.35 Mbit/s

95th percentile per-packet one-way delay: 88.646 ms

Loss rate: 0.90%

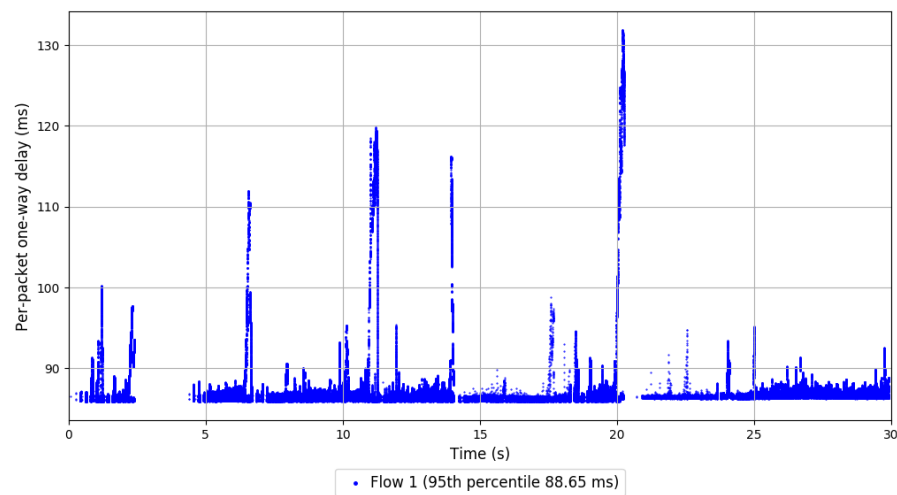
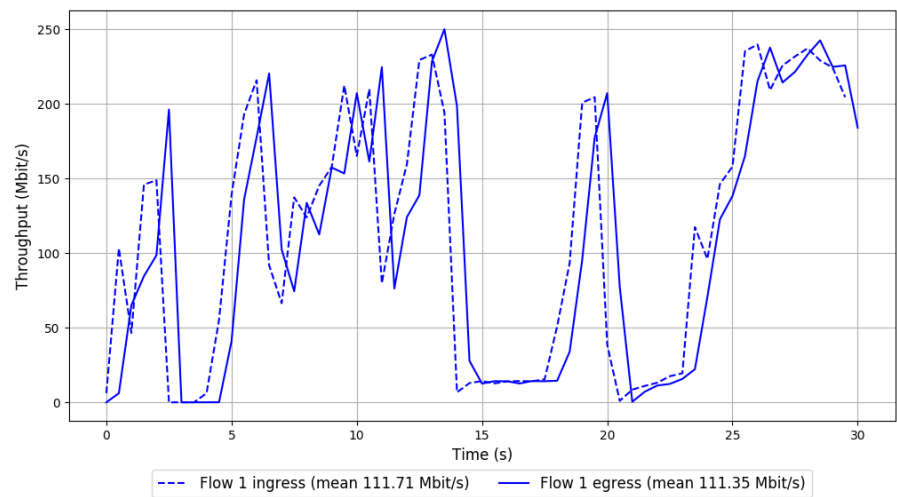
-- Flow 1:

Average throughput: 111.35 Mbit/s

95th percentile per-packet one-way delay: 88.646 ms

Loss rate: 0.90%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-06-30 01:11:16

End at: 2018-06-30 01:11:46

Local clock offset: 0.144 ms

Remote clock offset: 0.29 ms

Below is generated by plot.py at 2018-06-30 03:25:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 137.74 Mbit/s

95th percentile per-packet one-way delay: 88.798 ms

Loss rate: 0.27%

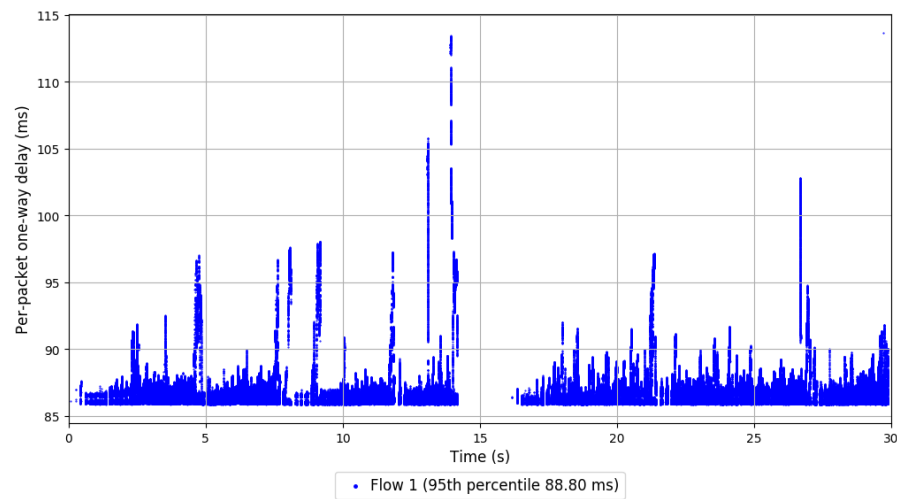
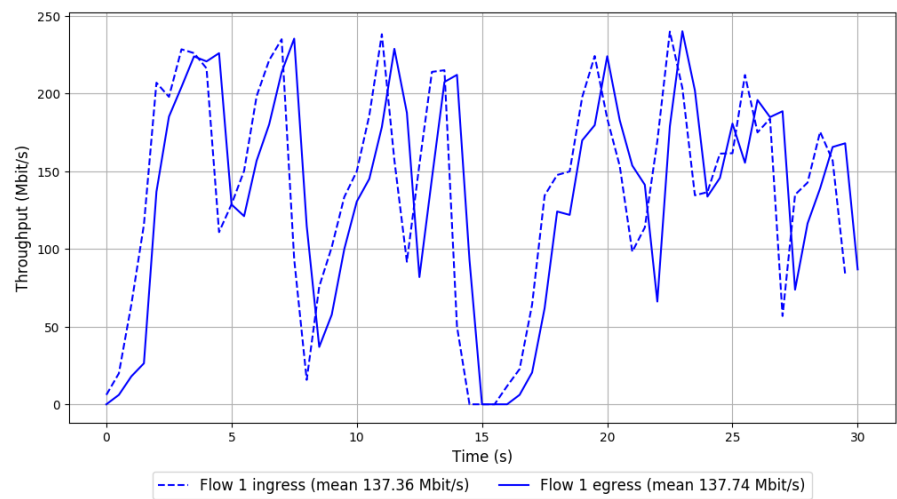
-- Flow 1:

Average throughput: 137.74 Mbit/s

95th percentile per-packet one-way delay: 88.798 ms

Loss rate: 0.27%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-06-30 01:32:22

End at: 2018-06-30 01:32:52

Local clock offset: 0.164 ms

Remote clock offset: 0.069 ms

Below is generated by plot.py at 2018-06-30 03:27:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 140.43 Mbit/s

95th percentile per-packet one-way delay: 88.955 ms

Loss rate: 0.50%

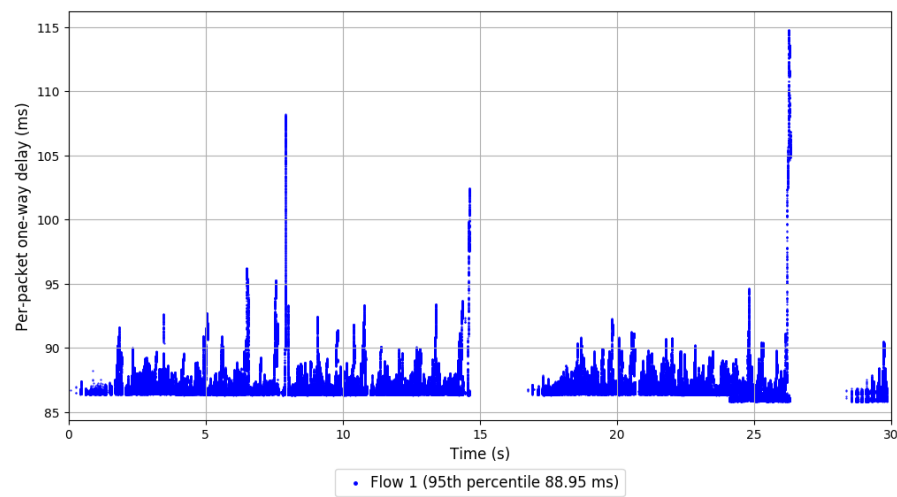
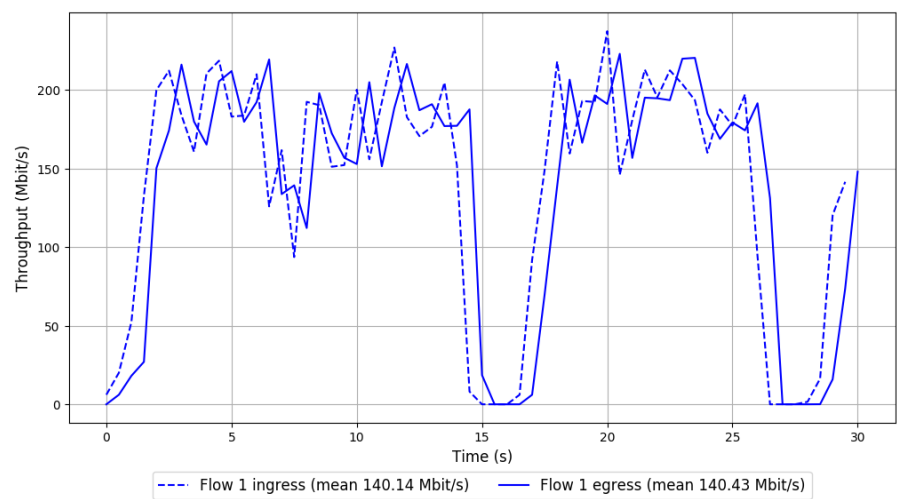
-- Flow 1:

Average throughput: 140.43 Mbit/s

95th percentile per-packet one-way delay: 88.955 ms

Loss rate: 0.50%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-06-30 01:53:34

End at: 2018-06-30 01:54:04

Local clock offset: 0.211 ms

Remote clock offset: 0.003 ms

Below is generated by plot.py at 2018-06-30 03:27:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 33.05 Mbit/s

95th percentile per-packet one-way delay: 99.836 ms

Loss rate: 2.69%

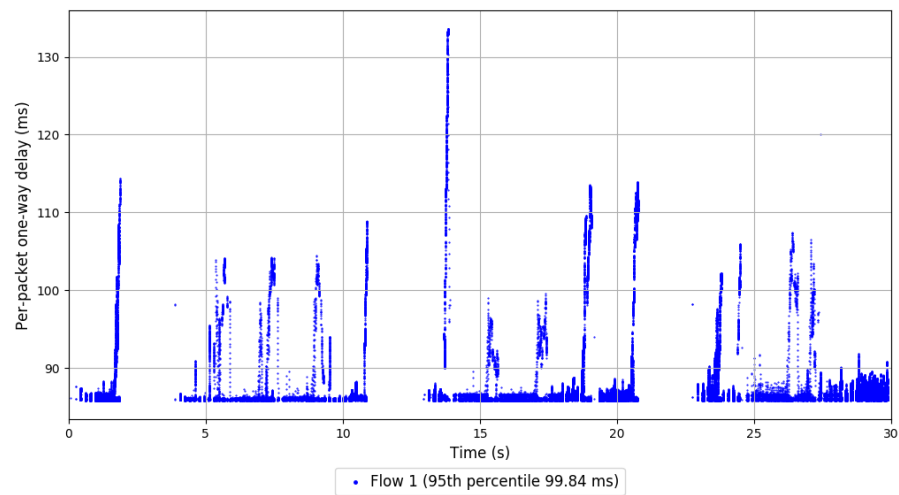
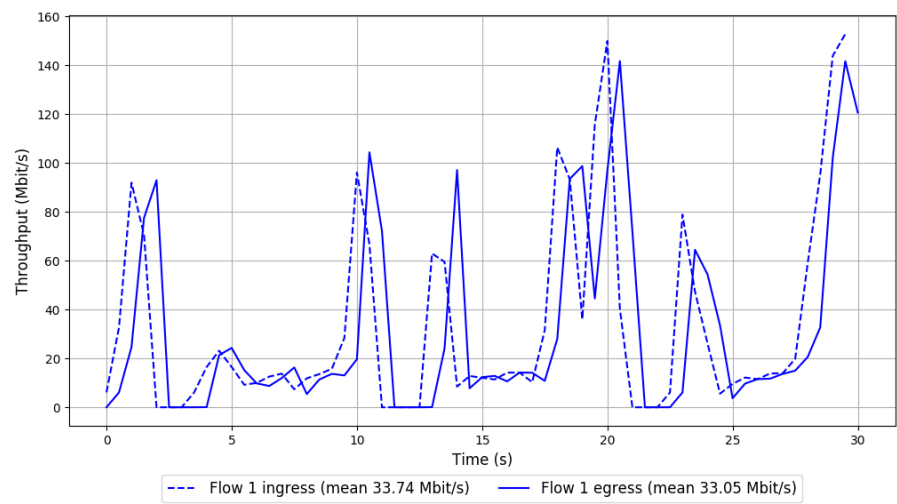
-- Flow 1:

Average throughput: 33.05 Mbit/s

95th percentile per-packet one-way delay: 99.836 ms

Loss rate: 2.69%

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



Run 10: Statistics of TaoVA-100x

Start at: 2018-06-30 02:14:29

End at: 2018-06-30 02:14:59

Local clock offset: 0.022 ms

Remote clock offset: -0.077 ms

Below is generated by plot.py at 2018-06-30 03:29:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 148.83 Mbit/s

95th percentile per-packet one-way delay: 88.063 ms

Loss rate: 0.74%

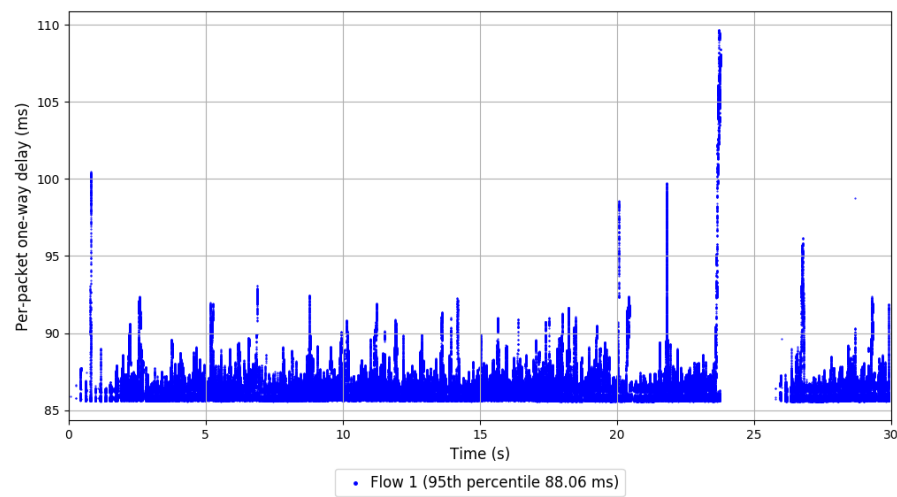
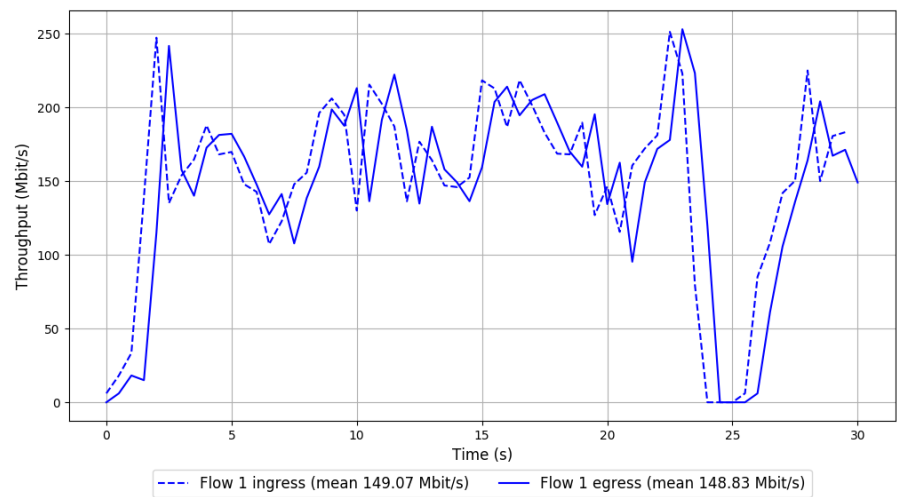
-- Flow 1:

Average throughput: 148.83 Mbit/s

95th percentile per-packet one-way delay: 88.063 ms

Loss rate: 0.74%

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



Run 1: Statistics of TCP Vegas

Start at: 2018-06-29 23:18:12

End at: 2018-06-29 23:18:42

Local clock offset: 0.371 ms

Remote clock offset: -0.06 ms

Below is generated by plot.py at 2018-06-30 03:29:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 52.87 Mbit/s

95th percentile per-packet one-way delay: 91.105 ms

Loss rate: 0.61%

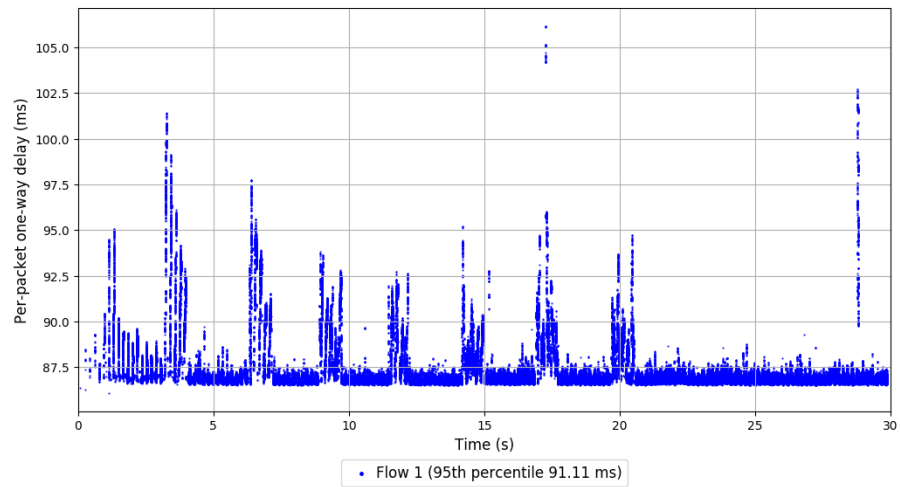
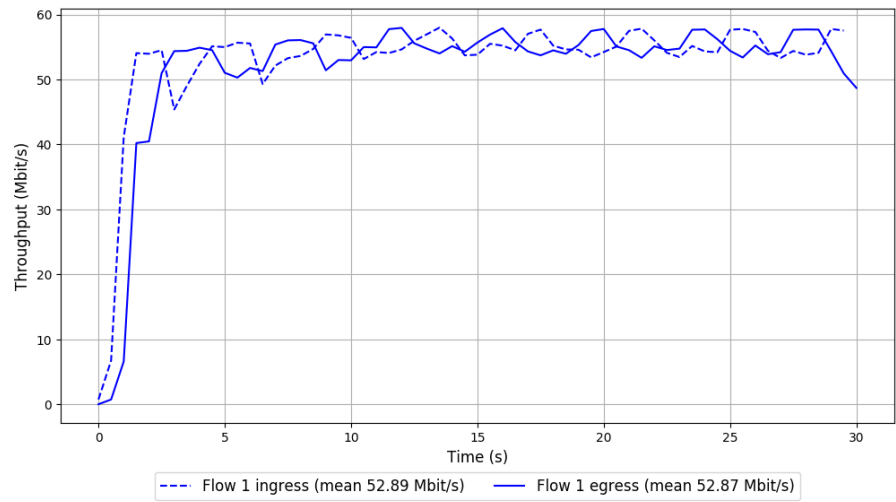
-- Flow 1:

Average throughput: 52.87 Mbit/s

95th percentile per-packet one-way delay: 91.105 ms

Loss rate: 0.61%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-06-29 23:39:18

End at: 2018-06-29 23:39:48

Local clock offset: 0.042 ms

Remote clock offset: 0.002 ms

Below is generated by plot.py at 2018-06-30 03:29:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 48.03 Mbit/s

95th percentile per-packet one-way delay: 88.923 ms

Loss rate: 0.64%

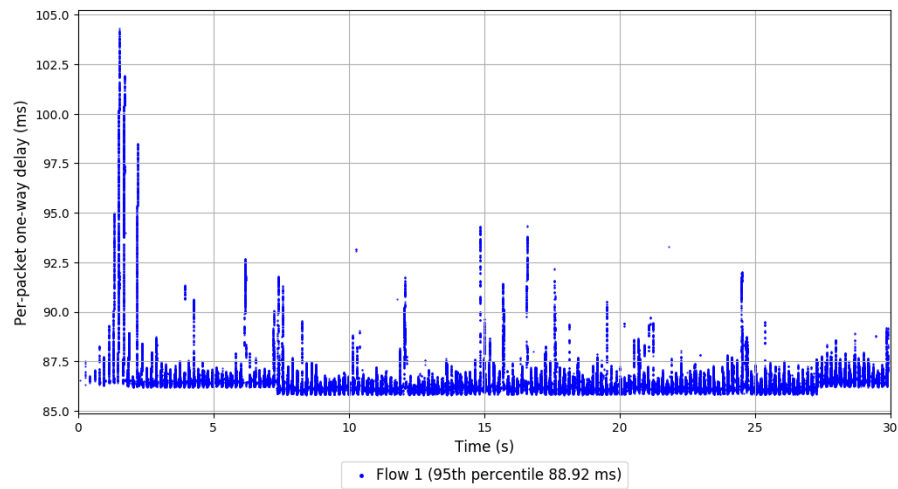
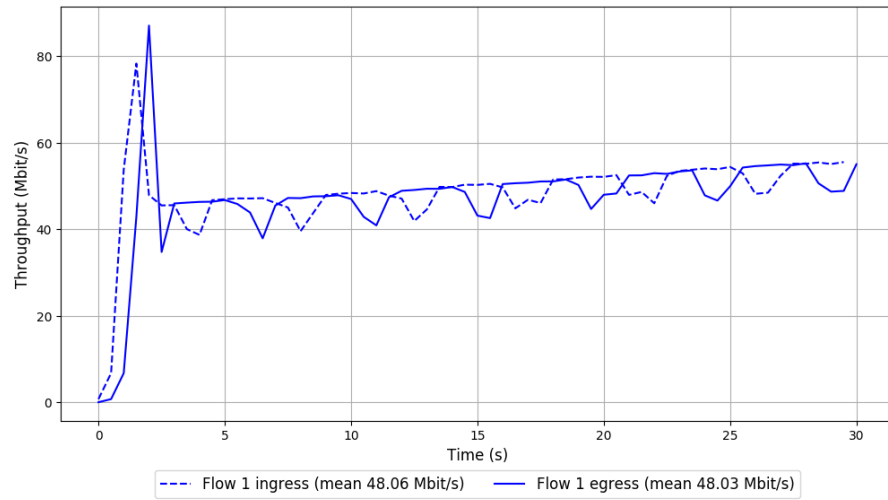
-- Flow 1:

Average throughput: 48.03 Mbit/s

95th percentile per-packet one-way delay: 88.923 ms

Loss rate: 0.64%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-06-30 00:00:32

End at: 2018-06-30 00:01:03

Local clock offset: 0.02 ms

Remote clock offset: 0.028 ms

Below is generated by plot.py at 2018-06-30 03:29:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 43.00 Mbit/s

95th percentile per-packet one-way delay: 88.928 ms

Loss rate: 0.65%

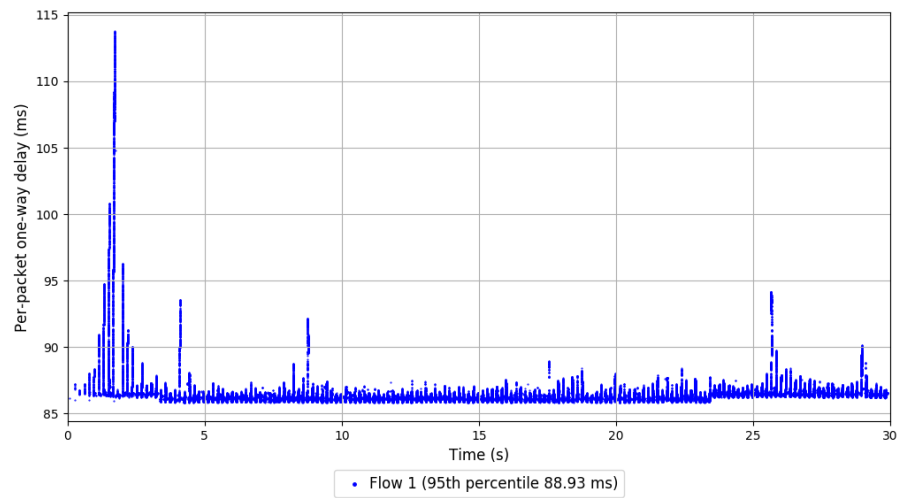
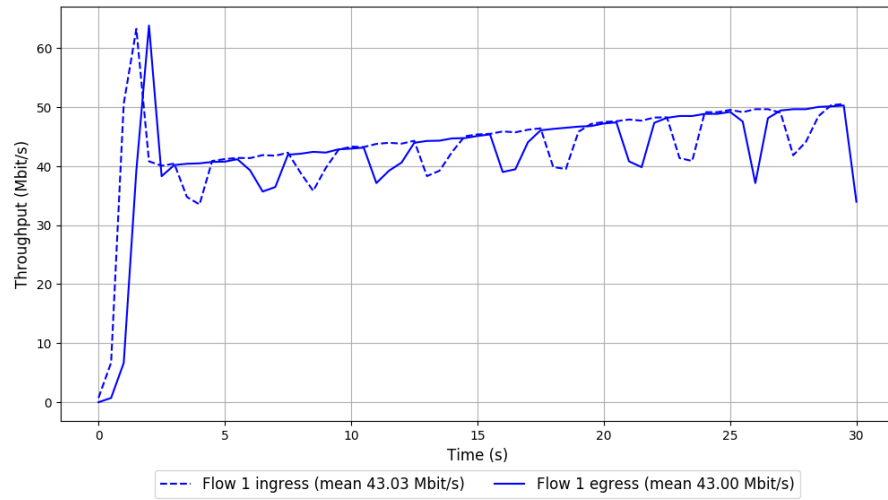
-- Flow 1:

Average throughput: 43.00 Mbit/s

95th percentile per-packet one-way delay: 88.928 ms

Loss rate: 0.65%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-06-30 00:21:25

End at: 2018-06-30 00:21:55

Local clock offset: 0.139 ms

Remote clock offset: 0.124 ms

Below is generated by plot.py at 2018-06-30 03:29:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 105.84 Mbit/s

95th percentile per-packet one-way delay: 90.195 ms

Loss rate: 0.61%

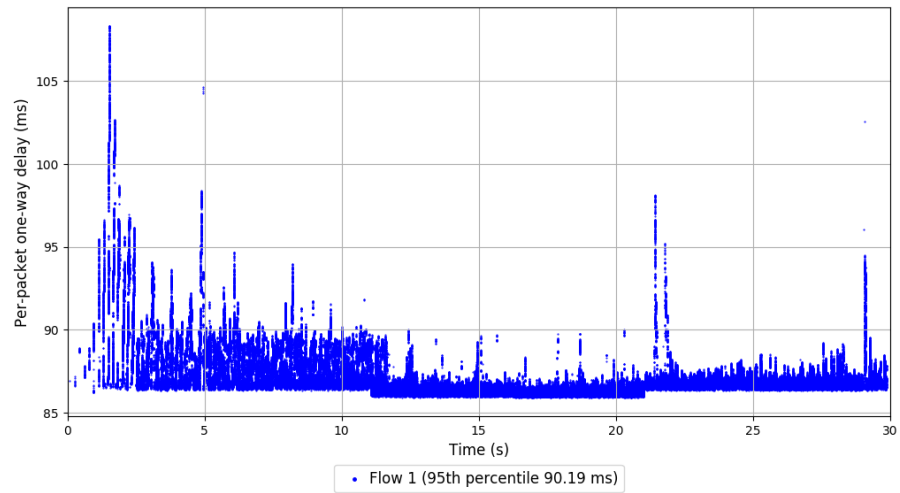
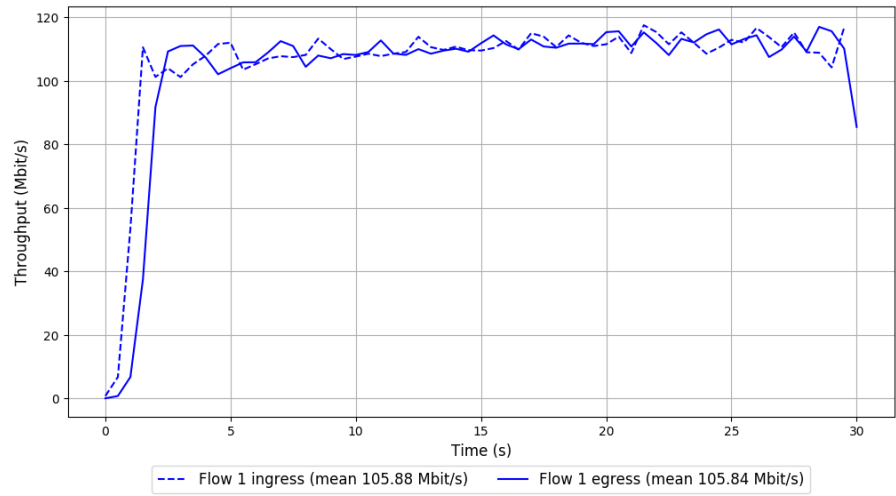
-- Flow 1:

Average throughput: 105.84 Mbit/s

95th percentile per-packet one-way delay: 90.195 ms

Loss rate: 0.61%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-06-30 00:42:40

End at: 2018-06-30 00:43:10

Local clock offset: 0.187 ms

Remote clock offset: 0.219 ms

Below is generated by plot.py at 2018-06-30 03:29:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 119.04 Mbit/s

95th percentile per-packet one-way delay: 101.194 ms

Loss rate: 0.22%

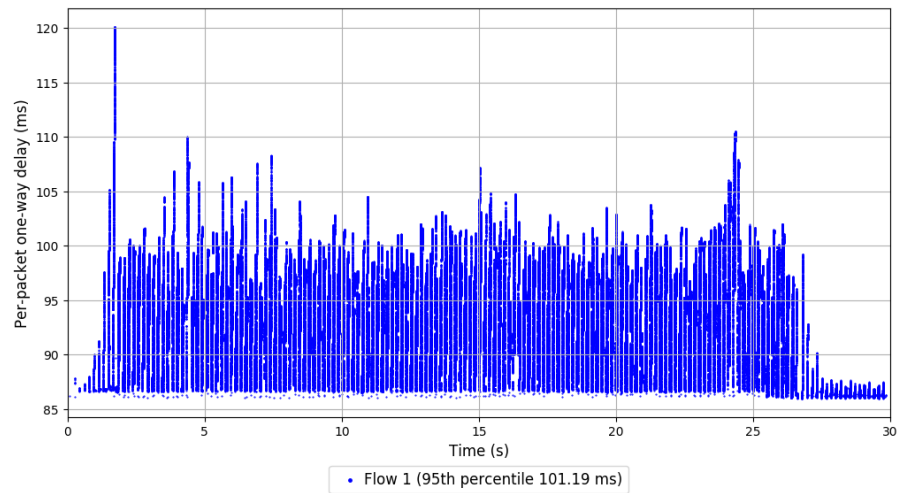
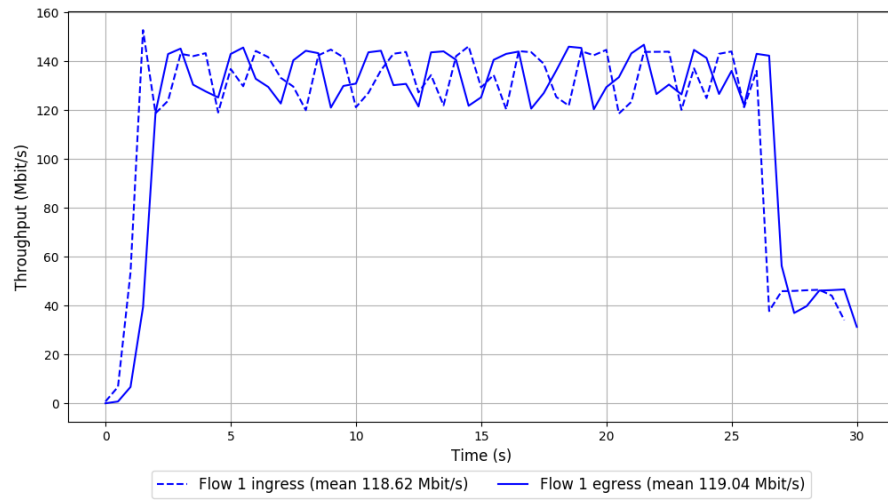
-- Flow 1:

Average throughput: 119.04 Mbit/s

95th percentile per-packet one-way delay: 101.194 ms

Loss rate: 0.22%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-06-30 01:03:41

End at: 2018-06-30 01:04:11

Local clock offset: 0.112 ms

Remote clock offset: 0.268 ms

Below is generated by plot.py at 2018-06-30 03:29:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.03 Mbit/s

95th percentile per-packet one-way delay: 102.547 ms

Loss rate: 0.35%

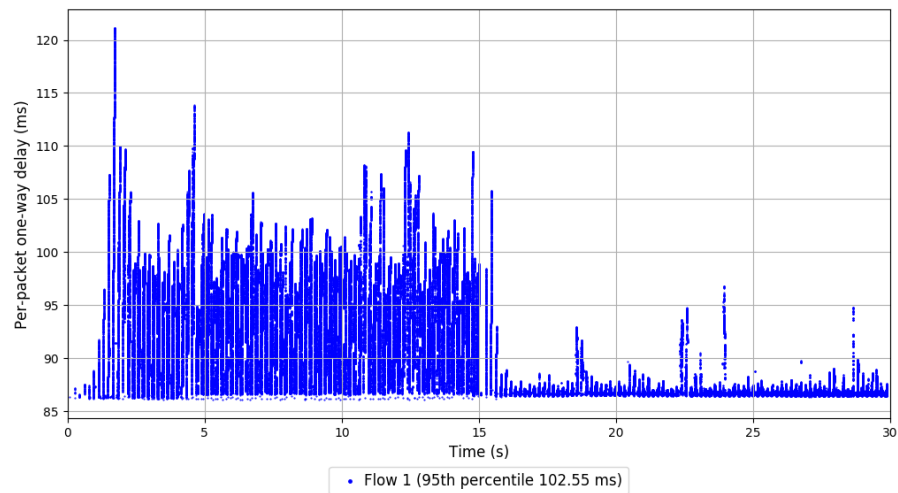
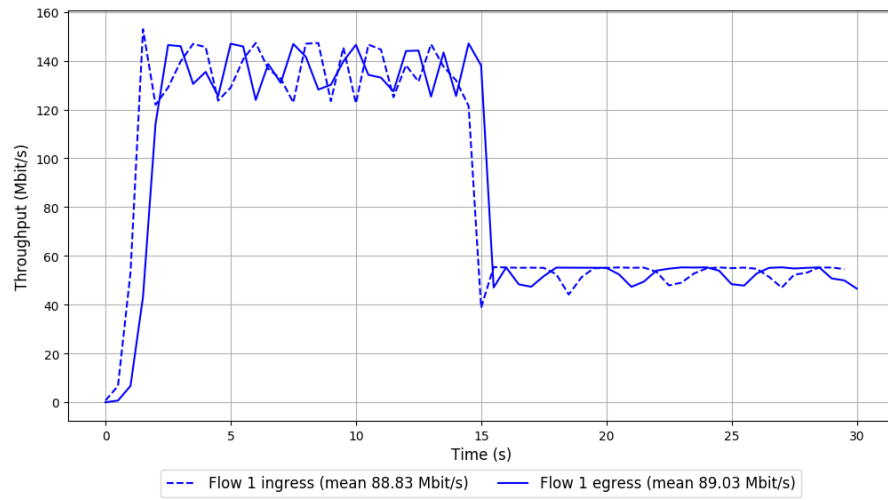
-- Flow 1:

Average throughput: 89.03 Mbit/s

95th percentile per-packet one-way delay: 102.547 ms

Loss rate: 0.35%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-06-30 01:24:41

End at: 2018-06-30 01:25:11

Local clock offset: 0.1 ms

Remote clock offset: 0.107 ms

Below is generated by plot.py at 2018-06-30 03:29:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 131.34 Mbit/s

95th percentile per-packet one-way delay: 99.735 ms

Loss rate: 0.67%

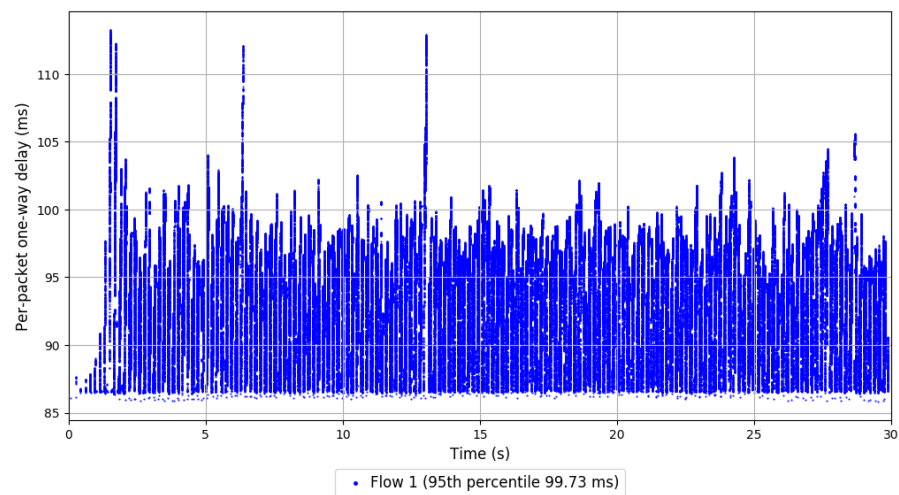
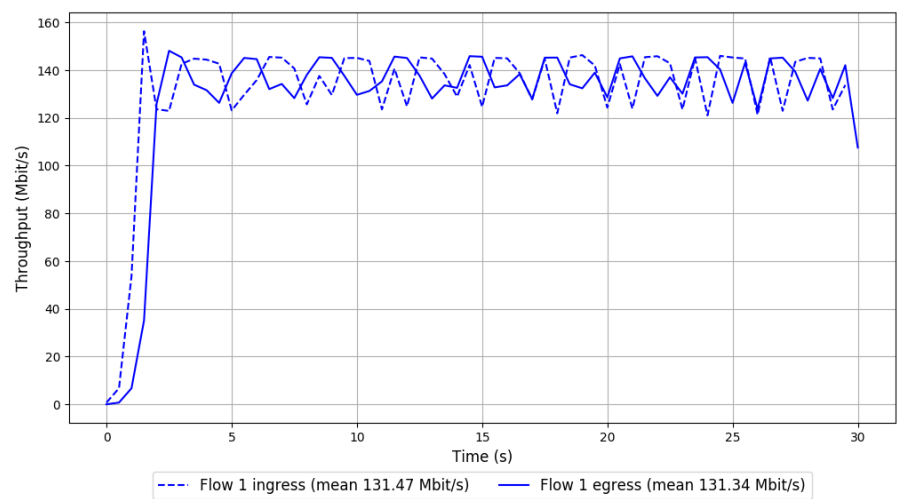
-- Flow 1:

Average throughput: 131.34 Mbit/s

95th percentile per-packet one-way delay: 99.735 ms

Loss rate: 0.67%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-06-30 01:45:53

End at: 2018-06-30 01:46:23

Local clock offset: 0.37 ms

Remote clock offset: 0.071 ms

Below is generated by plot.py at 2018-06-30 03:29:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 126.33 Mbit/s

95th percentile per-packet one-way delay: 101.294 ms

Loss rate: 0.50%

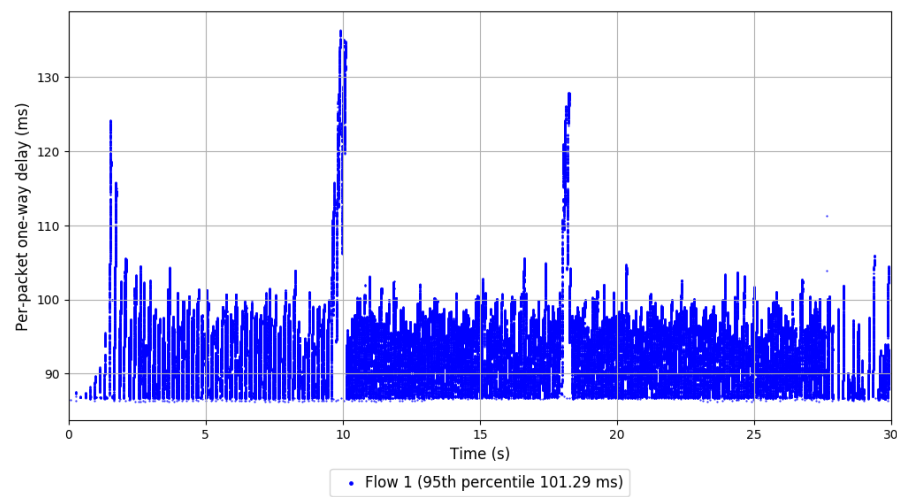
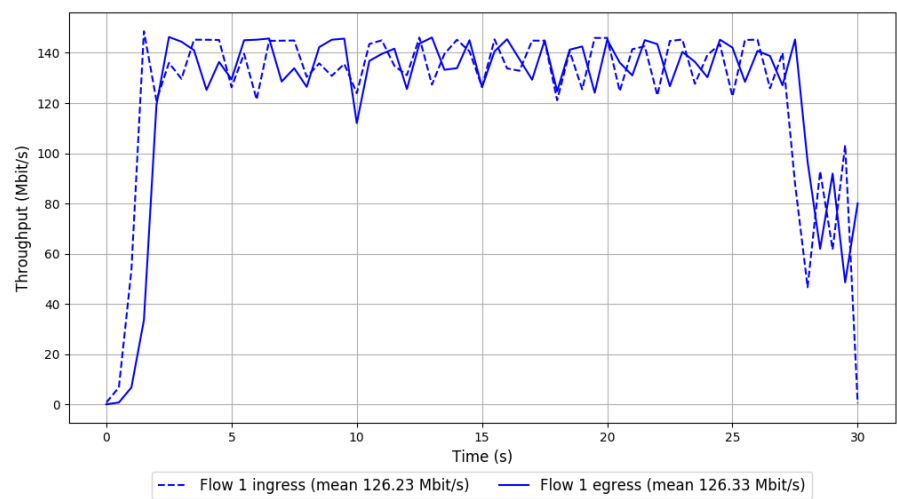
-- Flow 1:

Average throughput: 126.33 Mbit/s

95th percentile per-packet one-way delay: 101.294 ms

Loss rate: 0.50%

Run 8: Report of TCP Vegas — Data Link

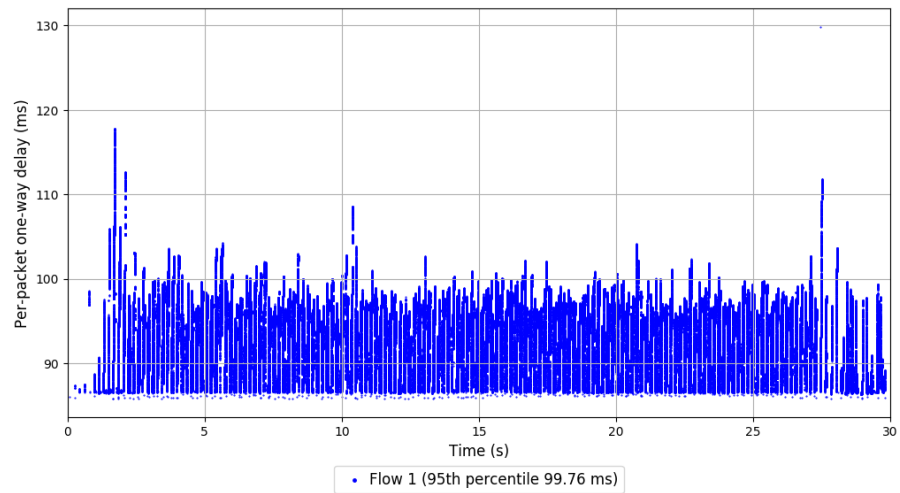
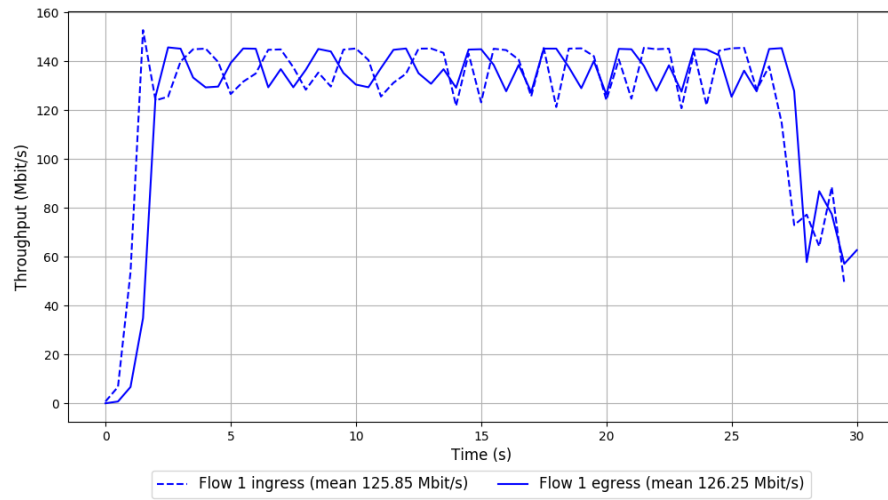


Run 9: Statistics of TCP Vegas

Start at: 2018-06-30 02:06:40
End at: 2018-06-30 02:07:10
Local clock offset: 0.217 ms
Remote clock offset: -0.026 ms

Below is generated by plot.py at 2018-06-30 03:29:19
Datalink statistics
-- Total of 1 flow:
Average throughput: 126.25 Mbit/s
95th percentile per-packet one-way delay: 99.758 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 126.25 Mbit/s
95th percentile per-packet one-way delay: 99.758 ms
Loss rate: 0.29%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-06-30 02:27:49

End at: 2018-06-30 02:28:19

Local clock offset: 0.188 ms

Remote clock offset: -0.101 ms

Below is generated by plot.py at 2018-06-30 03:29:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 130.53 Mbit/s

95th percentile per-packet one-way delay: 100.806 ms

Loss rate: 0.16%

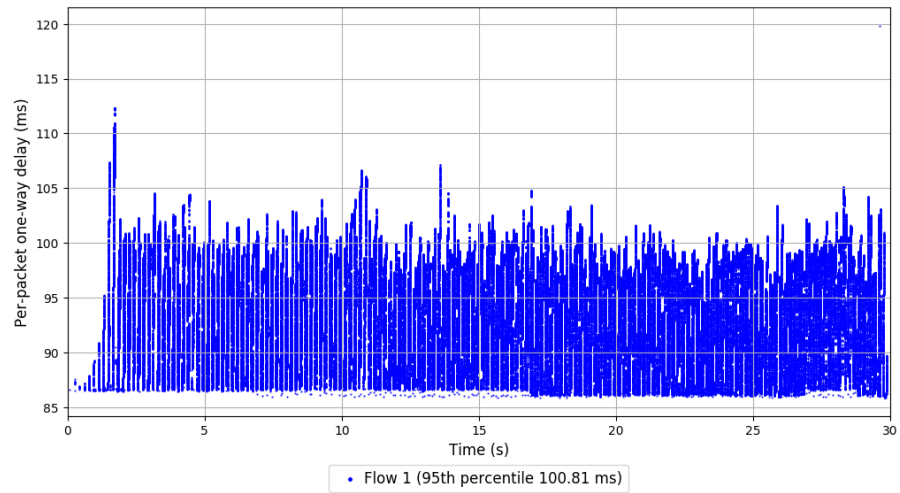
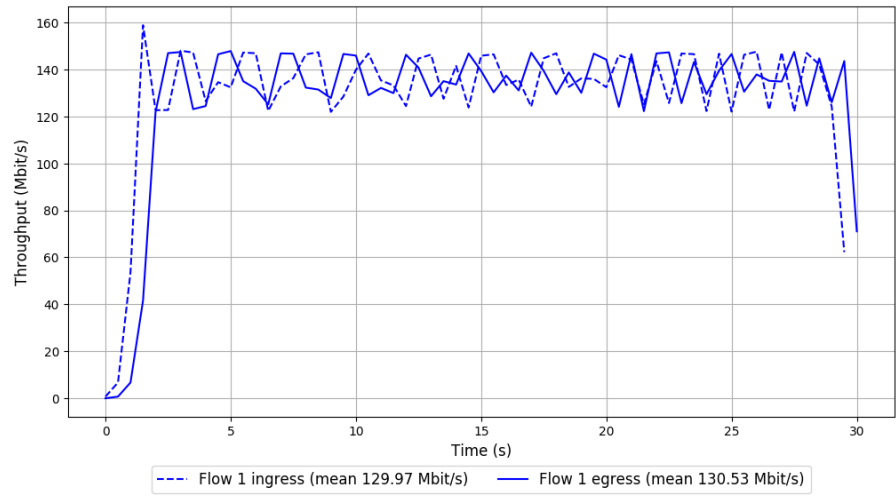
-- Flow 1:

Average throughput: 130.53 Mbit/s

95th percentile per-packet one-way delay: 100.806 ms

Loss rate: 0.16%

Run 10: Report of TCP Vegas — Data Link

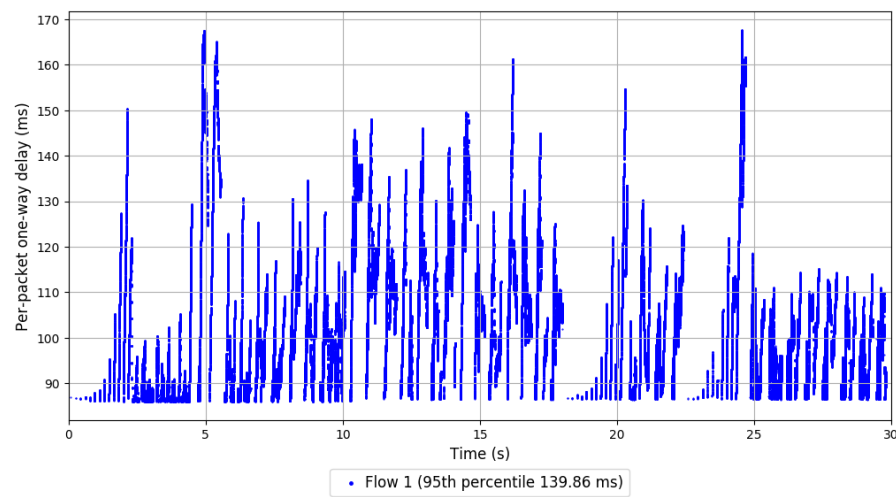
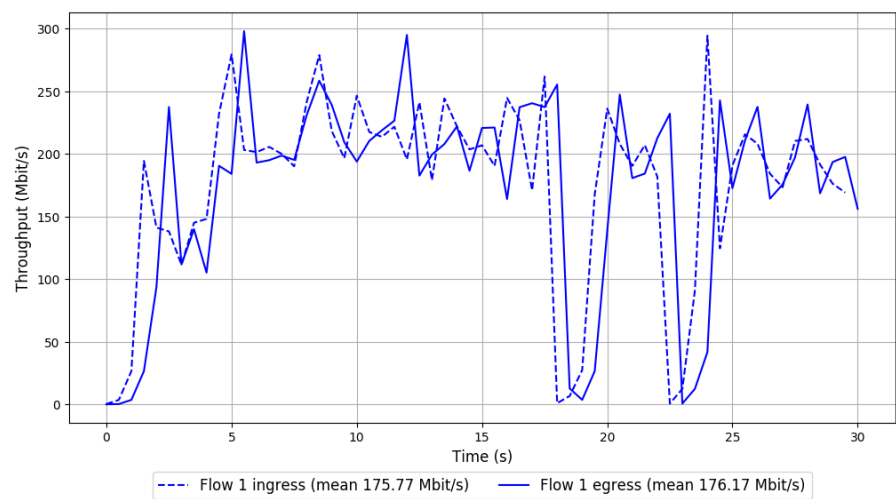


Run 1: Statistics of Verus

Start at: 2018-06-29 23:20:55
End at: 2018-06-29 23:21:25
Local clock offset: 0.177 ms
Remote clock offset: -0.027 ms

Below is generated by plot.py at 2018-06-30 03:30:52
Datalink statistics
-- Total of 1 flow:
Average throughput: 176.17 Mbit/s
95th percentile per-packet one-way delay: 139.858 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 176.17 Mbit/s
95th percentile per-packet one-way delay: 139.858 ms
Loss rate: 0.41%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-06-29 23:42:02

End at: 2018-06-29 23:42:32

Local clock offset: 0.22 ms

Remote clock offset: 0.039 ms

Below is generated by plot.py at 2018-06-30 03:31:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 168.83 Mbit/s

95th percentile per-packet one-way delay: 164.091 ms

Loss rate: 3.33%

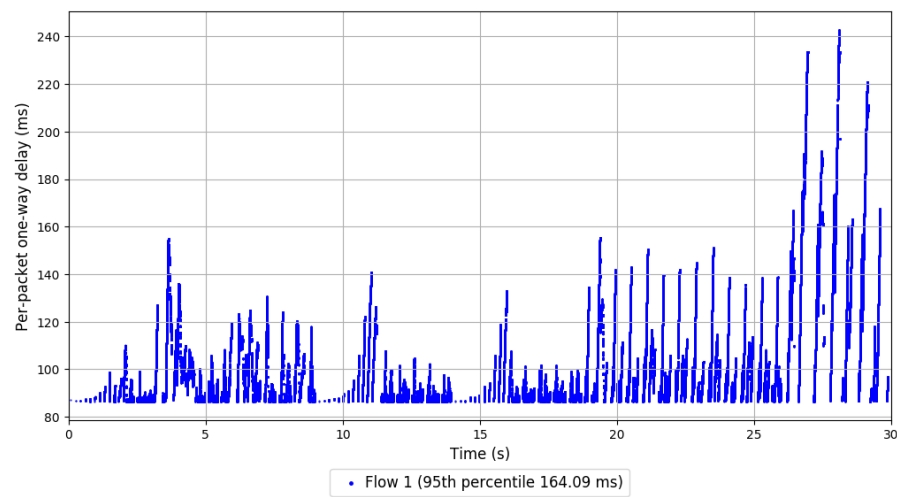
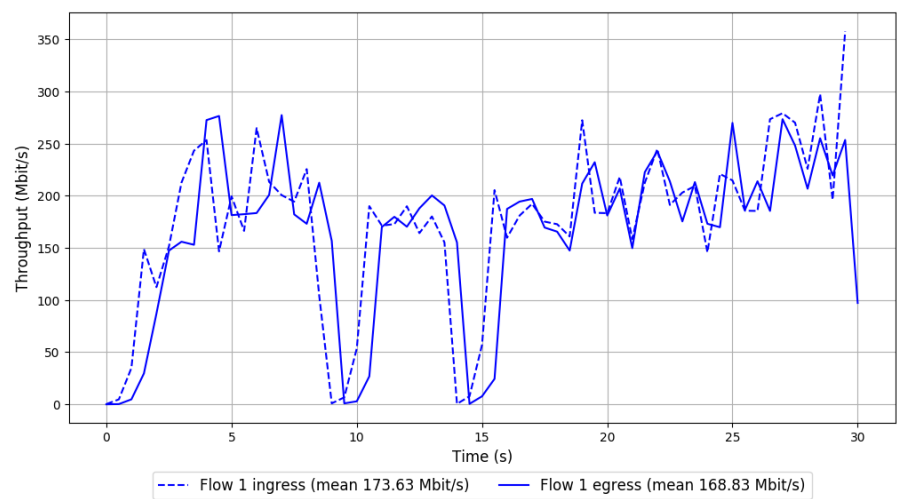
-- Flow 1:

Average throughput: 168.83 Mbit/s

95th percentile per-packet one-way delay: 164.091 ms

Loss rate: 3.33%

Run 2: Report of Verus — Data Link

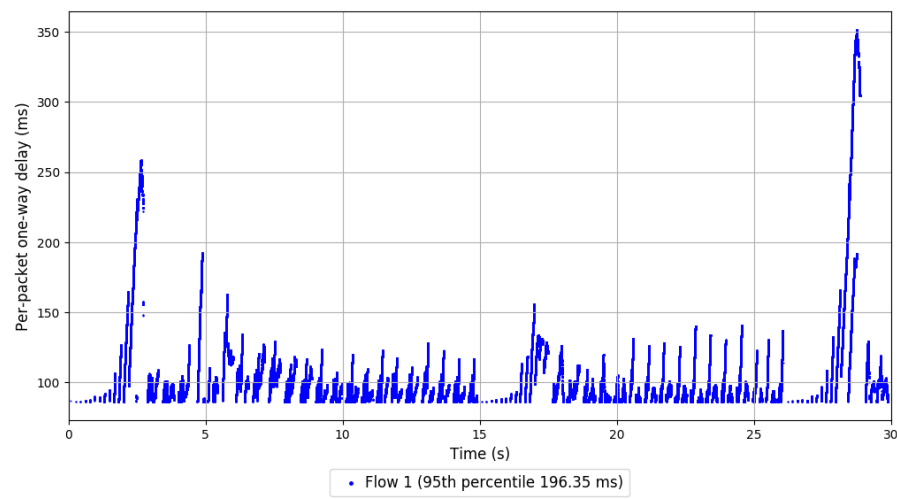
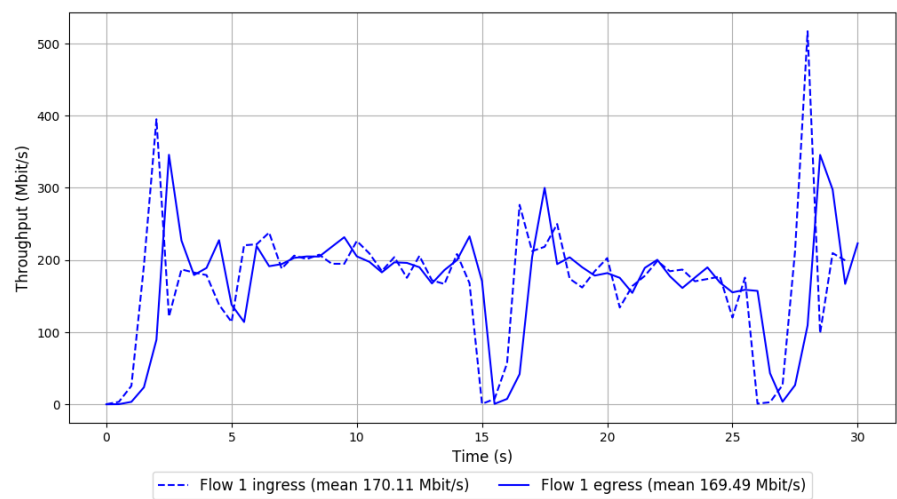


Run 3: Statistics of Verus

Start at: 2018-06-30 00:02:59
End at: 2018-06-30 00:03:30
Local clock offset: 0.008 ms
Remote clock offset: -0.003 ms

Below is generated by plot.py at 2018-06-30 03:31:06
Datalink statistics
-- Total of 1 flow:
Average throughput: 169.49 Mbit/s
95th percentile per-packet one-way delay: 196.346 ms
Loss rate: 0.95%
-- Flow 1:
Average throughput: 169.49 Mbit/s
95th percentile per-packet one-way delay: 196.346 ms
Loss rate: 0.95%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-06-30 00:24:13

End at: 2018-06-30 00:24:43

Local clock offset: 0.152 ms

Remote clock offset: 0.139 ms

Below is generated by plot.py at 2018-06-30 03:31:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 169.74 Mbit/s

95th percentile per-packet one-way delay: 166.986 ms

Loss rate: 0.22%

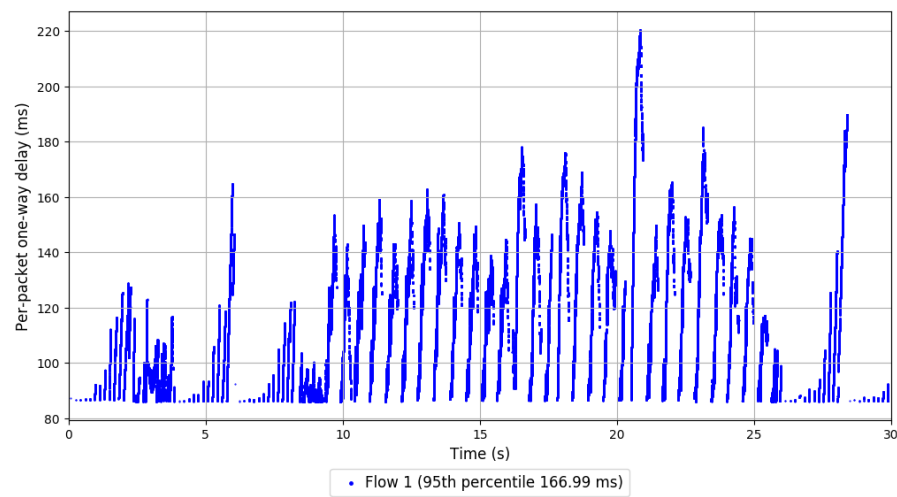
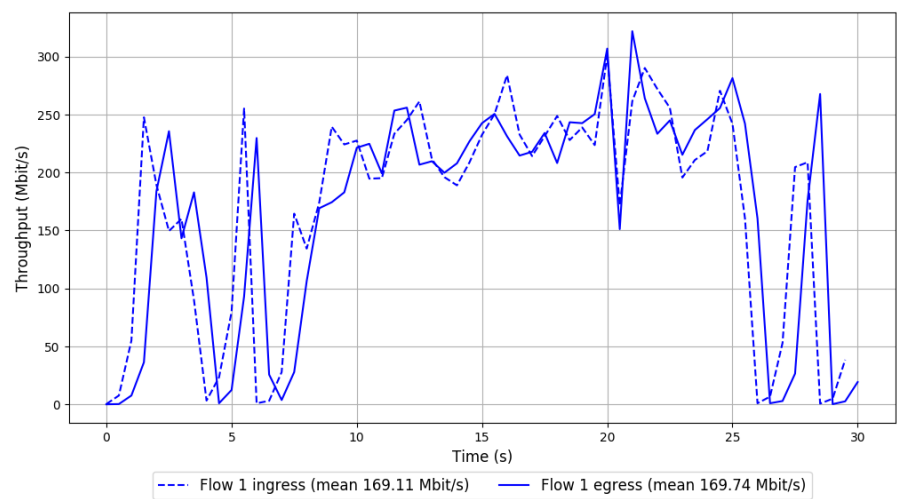
-- Flow 1:

Average throughput: 169.74 Mbit/s

95th percentile per-packet one-way delay: 166.986 ms

Loss rate: 0.22%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-06-30 00:45:21

End at: 2018-06-30 00:45:51

Local clock offset: 0.223 ms

Remote clock offset: 0.226 ms

Below is generated by plot.py at 2018-06-30 03:31:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 119.48 Mbit/s

95th percentile per-packet one-way delay: 153.442 ms

Loss rate: 0.05%

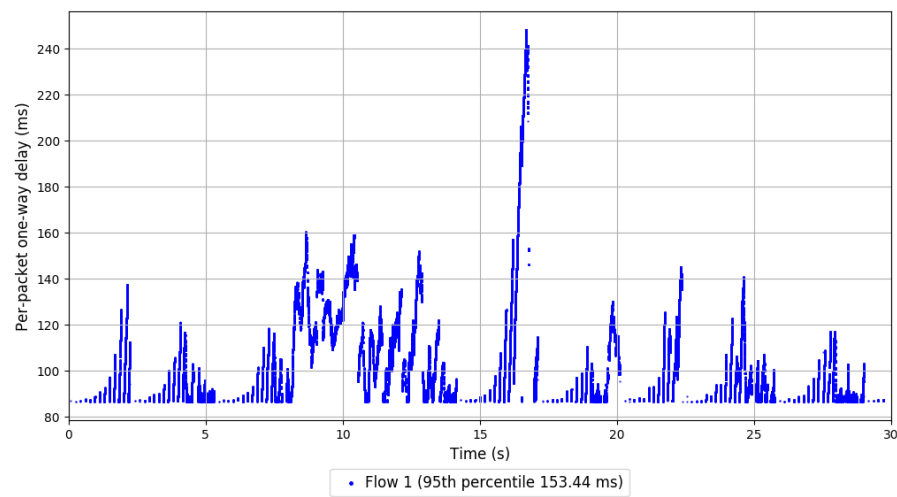
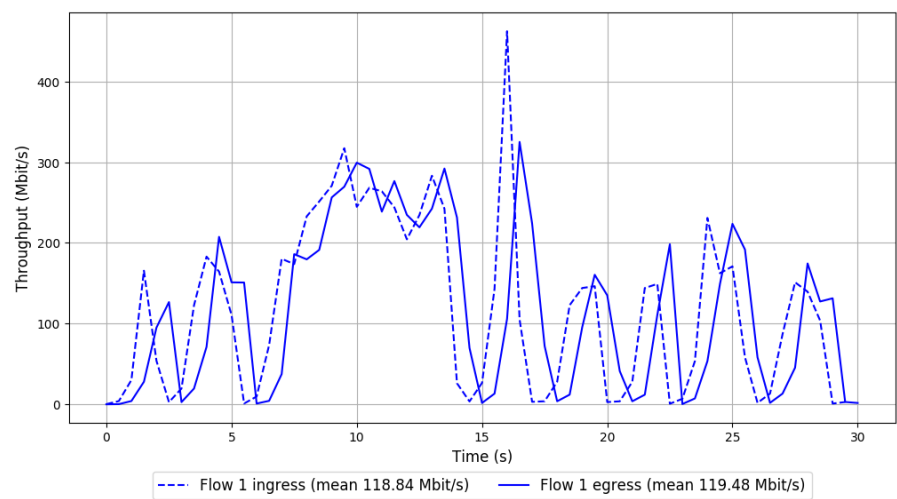
-- Flow 1:

Average throughput: 119.48 Mbit/s

95th percentile per-packet one-way delay: 153.442 ms

Loss rate: 0.05%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-06-30 01:06:22

End at: 2018-06-30 01:06:52

Local clock offset: 0.28 ms

Remote clock offset: 0.29 ms

Below is generated by plot.py at 2018-06-30 03:31:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 127.47 Mbit/s

95th percentile per-packet one-way delay: 277.169 ms

Loss rate: 2.51%

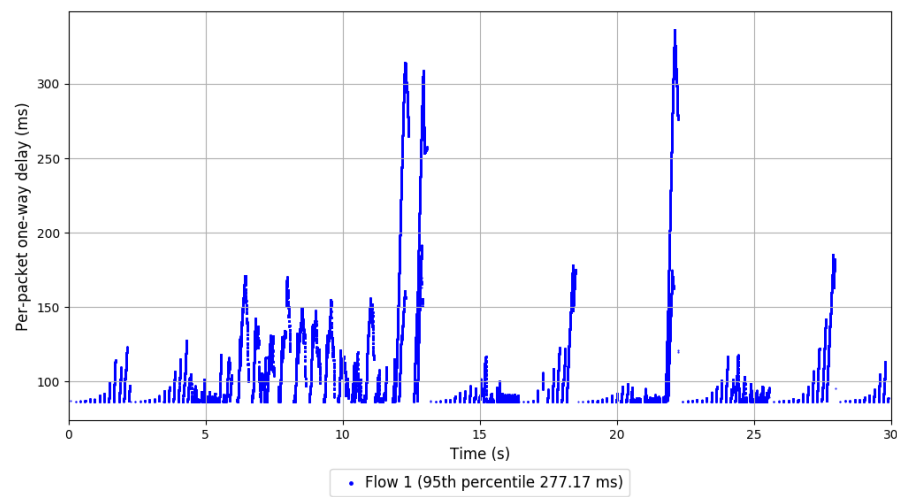
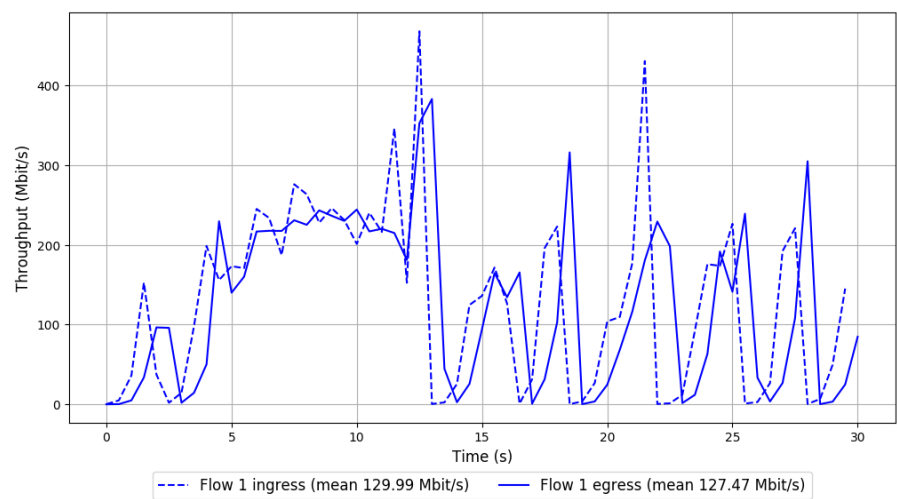
-- Flow 1:

Average throughput: 127.47 Mbit/s

95th percentile per-packet one-way delay: 277.169 ms

Loss rate: 2.51%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-06-30 01:27:23

End at: 2018-06-30 01:27:53

Local clock offset: 0.232 ms

Remote clock offset: 0.048 ms

Below is generated by plot.py at 2018-06-30 03:32:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 177.18 Mbit/s

95th percentile per-packet one-way delay: 186.338 ms

Loss rate: 0.71%

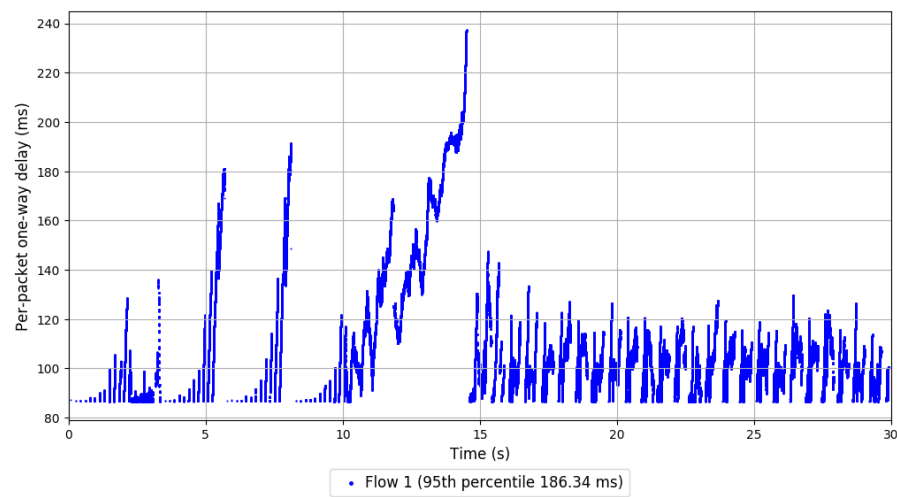
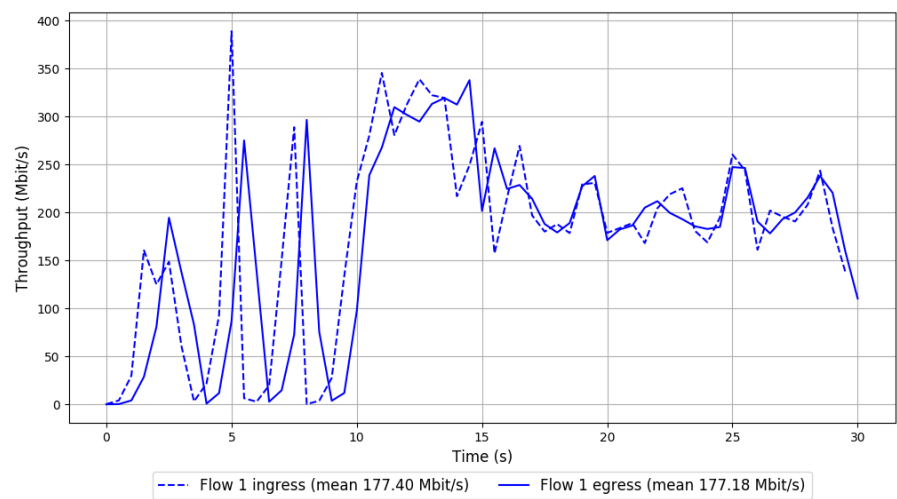
-- Flow 1:

Average throughput: 177.18 Mbit/s

95th percentile per-packet one-way delay: 186.338 ms

Loss rate: 0.71%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-06-30 01:48:37

End at: 2018-06-30 01:49:07

Local clock offset: 0.174 ms

Remote clock offset: 0.038 ms

Below is generated by plot.py at 2018-06-30 03:33:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 186.28 Mbit/s

95th percentile per-packet one-way delay: 174.118 ms

Loss rate: 0.53%

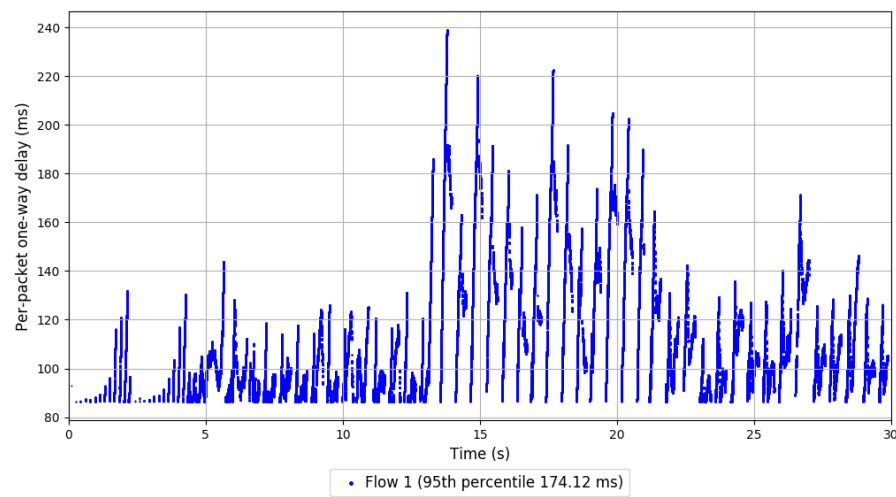
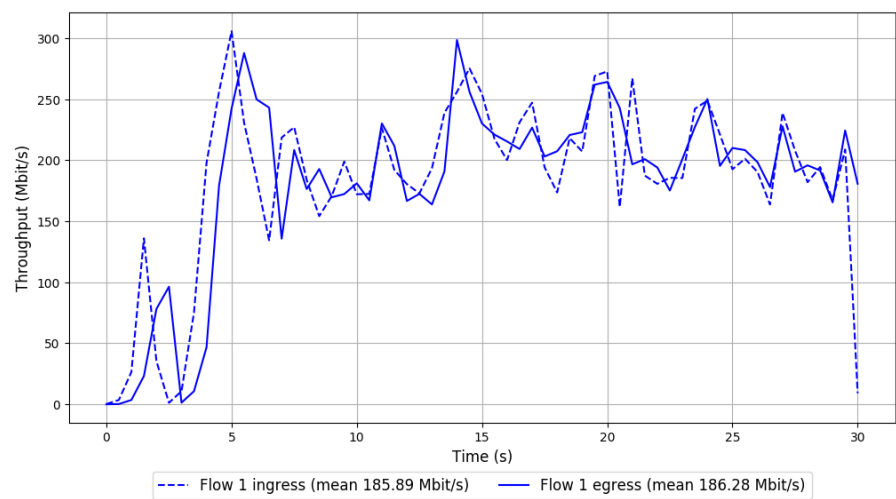
-- Flow 1:

Average throughput: 186.28 Mbit/s

95th percentile per-packet one-way delay: 174.118 ms

Loss rate: 0.53%

Run 8: Report of Verus — Data Link

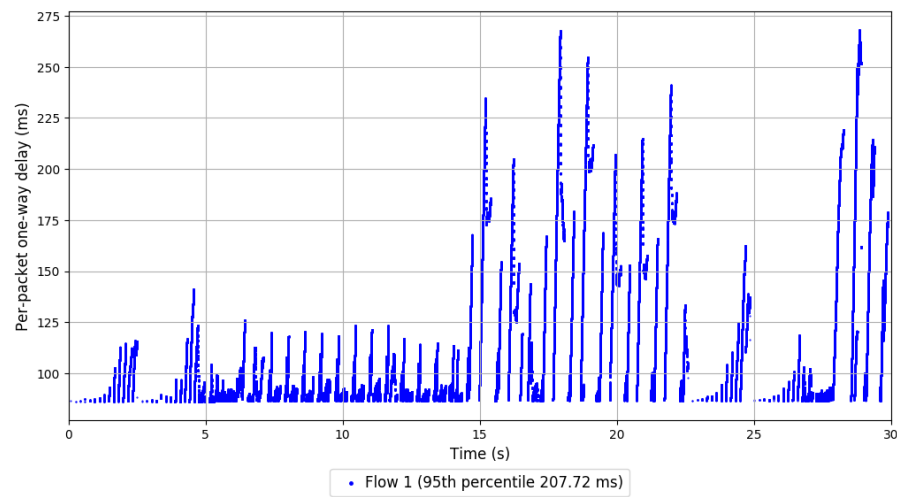
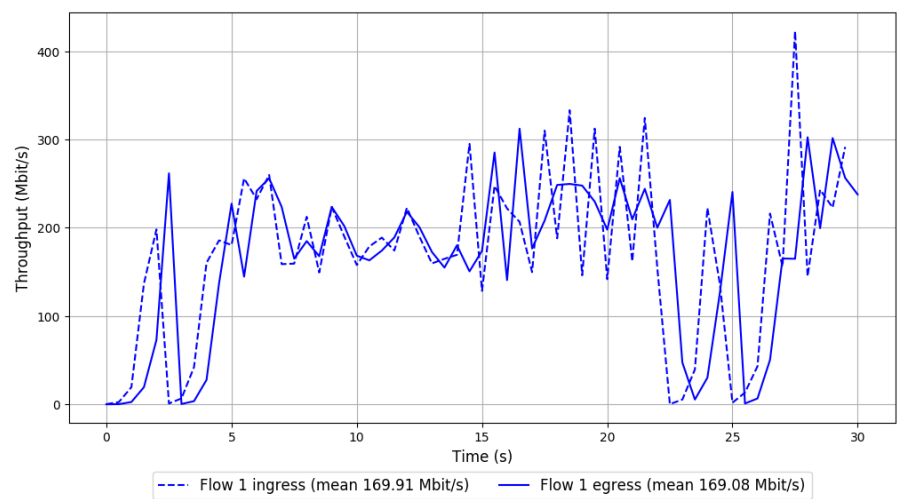


Run 9: Statistics of Verus

Start at: 2018-06-30 02:09:30
End at: 2018-06-30 02:10:00
Local clock offset: 0.286 ms
Remote clock offset: -0.106 ms

Below is generated by plot.py at 2018-06-30 03:33:32
Datalink statistics
-- Total of 1 flow:
Average throughput: 169.08 Mbit/s
95th percentile per-packet one-way delay: 207.716 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 169.08 Mbit/s
95th percentile per-packet one-way delay: 207.716 ms
Loss rate: 0.71%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-06-30 02:30:18

End at: 2018-06-30 02:30:48

Local clock offset: 0.323 ms

Remote clock offset: -0.1 ms

Below is generated by plot.py at 2018-06-30 03:33:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 186.87 Mbit/s

95th percentile per-packet one-way delay: 140.587 ms

Loss rate: 0.97%

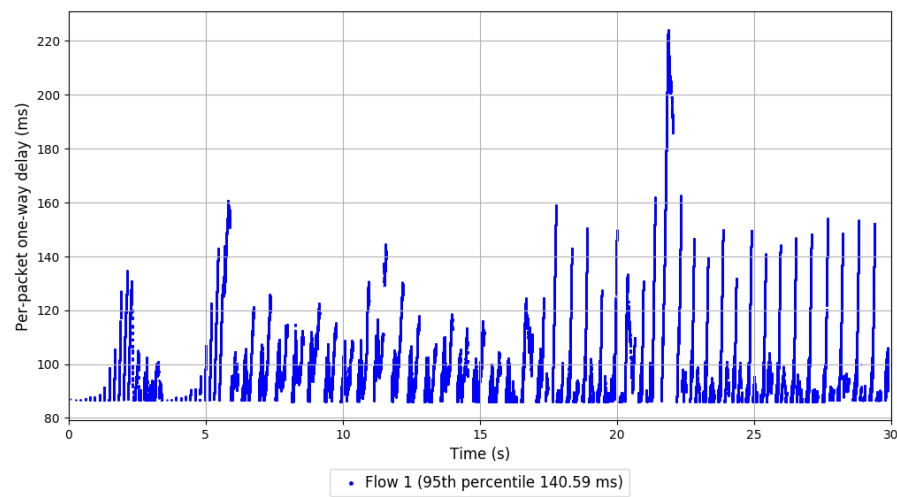
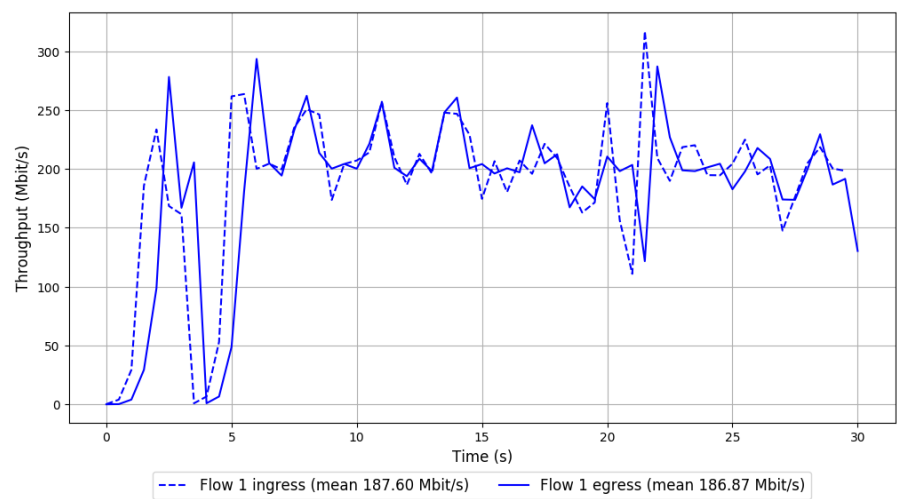
-- Flow 1:

Average throughput: 186.87 Mbit/s

95th percentile per-packet one-way delay: 140.587 ms

Loss rate: 0.97%

Run 10: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2018-06-29 23:12:18

End at: 2018-06-29 23:12:48

Local clock offset: 0.04 ms

Remote clock offset: -0.038 ms

Below is generated by plot.py at 2018-06-30 03:35:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 213.54 Mbit/s

95th percentile per-packet one-way delay: 87.308 ms

Loss rate: 0.74%

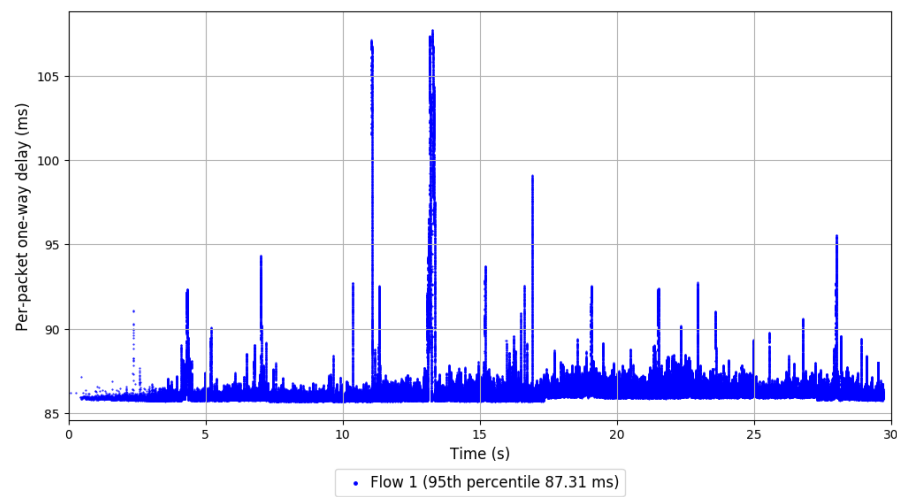
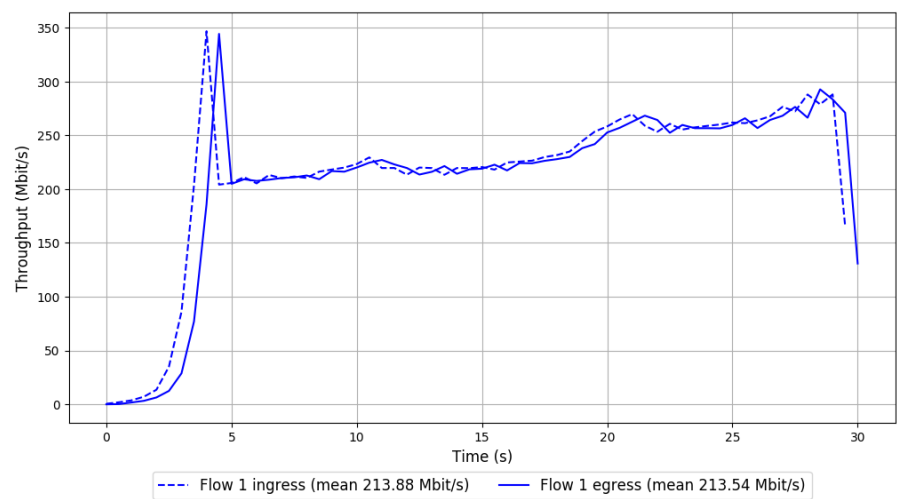
-- Flow 1:

Average throughput: 213.54 Mbit/s

95th percentile per-packet one-way delay: 87.308 ms

Loss rate: 0.74%

Run 1: Report of PCC-Vivace — Data Link

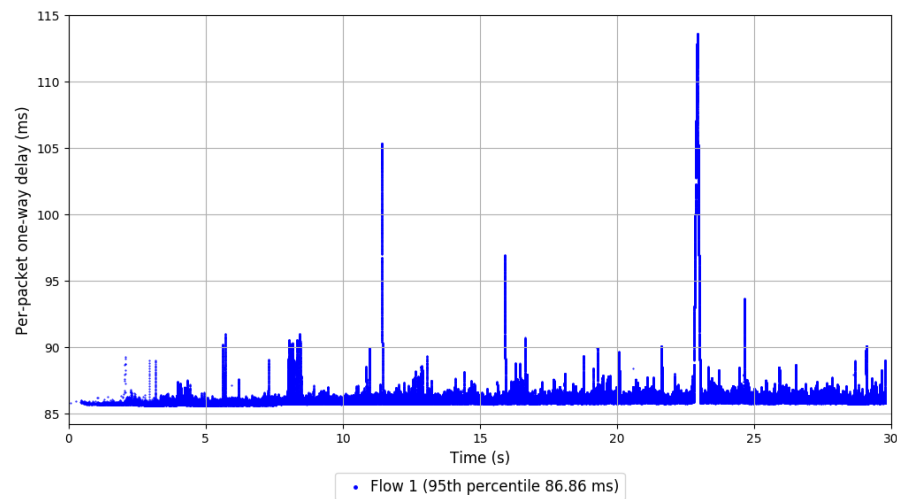
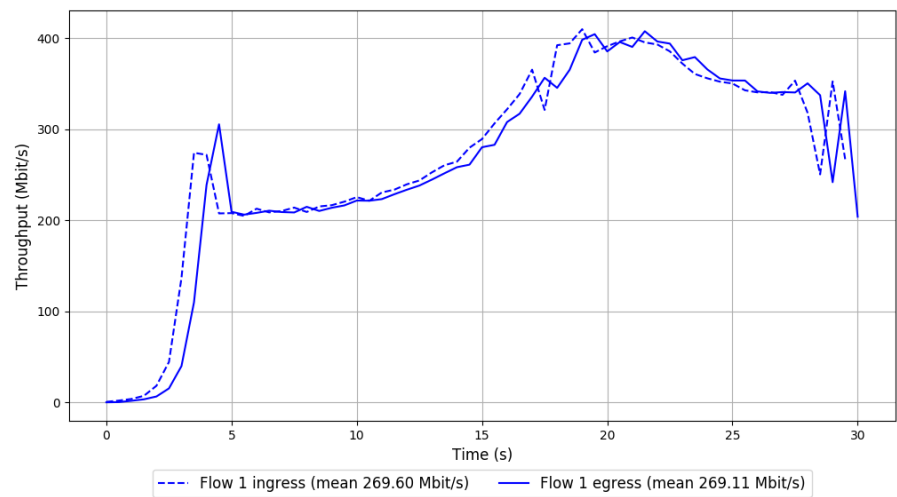


Run 2: Statistics of PCC-Vivace

Start at: 2018-06-29 23:33:18
End at: 2018-06-29 23:33:48
Local clock offset: -0.081 ms
Remote clock offset: -0.064 ms

Below is generated by plot.py at 2018-06-30 03:35:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 269.11 Mbit/s
95th percentile per-packet one-way delay: 86.855 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 269.11 Mbit/s
95th percentile per-packet one-way delay: 86.855 ms
Loss rate: 0.76%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-06-29 23:54:36

End at: 2018-06-29 23:55:06

Local clock offset: 0.185 ms

Remote clock offset: 0.013 ms

Below is generated by plot.py at 2018-06-30 03:35:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 229.02 Mbit/s

95th percentile per-packet one-way delay: 105.366 ms

Loss rate: 0.88%

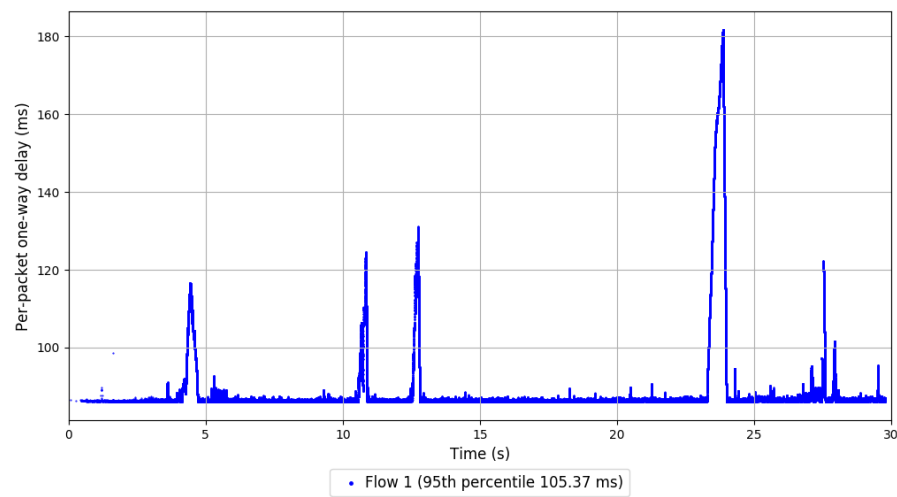
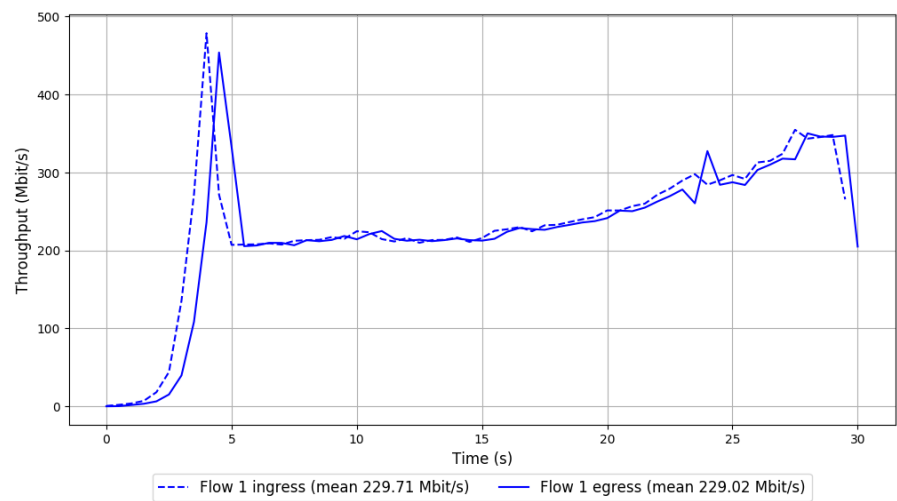
-- Flow 1:

Average throughput: 229.02 Mbit/s

95th percentile per-packet one-way delay: 105.366 ms

Loss rate: 0.88%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2018-06-30 00:15:29

End at: 2018-06-30 00:15:59

Local clock offset: 0.344 ms

Remote clock offset: 0.107 ms

Below is generated by plot.py at 2018-06-30 03:35:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 236.30 Mbit/s

95th percentile per-packet one-way delay: 86.927 ms

Loss rate: 0.69%

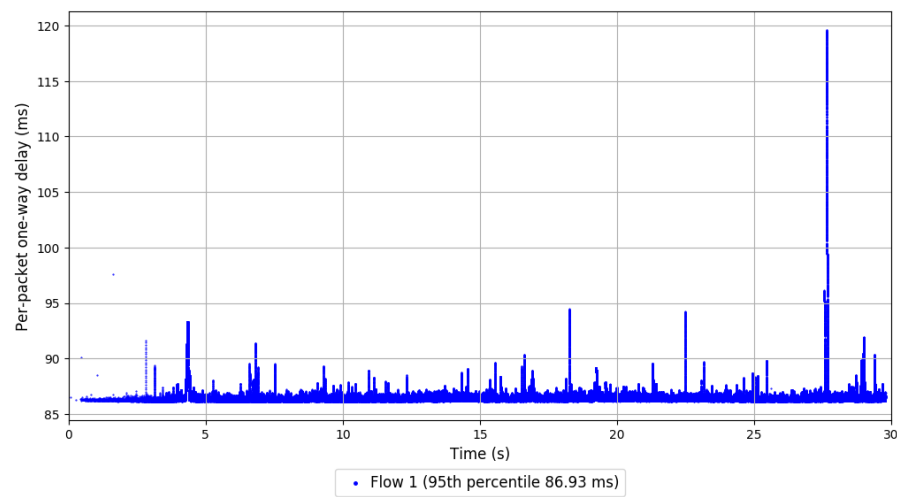
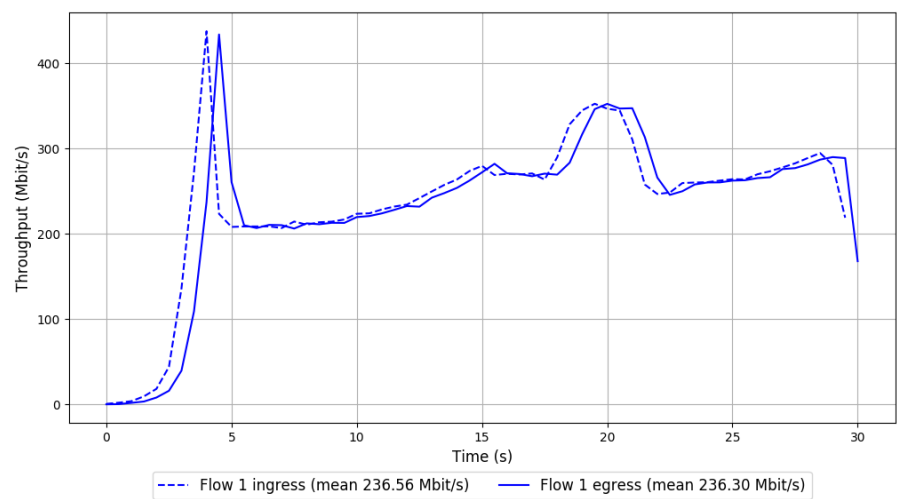
-- Flow 1:

Average throughput: 236.30 Mbit/s

95th percentile per-packet one-way delay: 86.927 ms

Loss rate: 0.69%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2018-06-30 00:36:42

End at: 2018-06-30 00:37:12

Local clock offset: -0.007 ms

Remote clock offset: 0.33 ms

Below is generated by plot.py at 2018-06-30 03:37:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 299.52 Mbit/s

95th percentile per-packet one-way delay: 89.203 ms

Loss rate: 0.59%

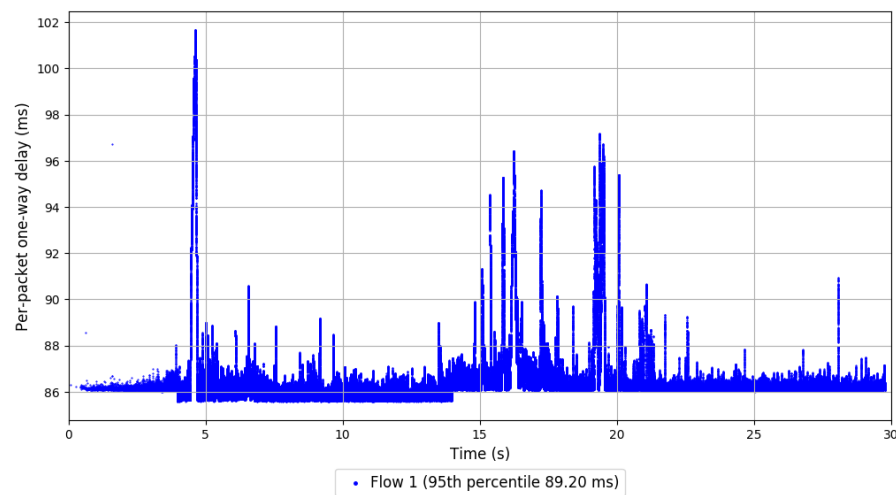
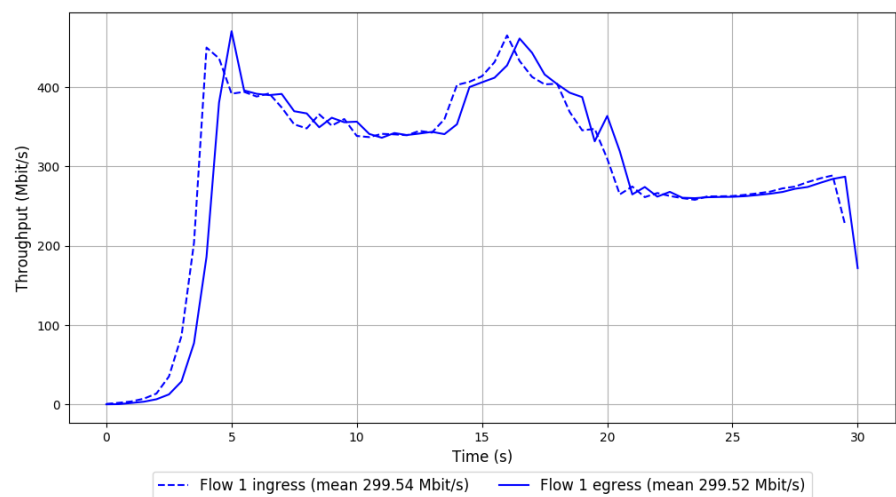
-- Flow 1:

Average throughput: 299.52 Mbit/s

95th percentile per-packet one-way delay: 89.203 ms

Loss rate: 0.59%

Run 5: Report of PCC-Vivace — Data Link



Run 6: Statistics of PCC-Vivace

Start at: 2018-06-30 00:57:45

End at: 2018-06-30 00:58:15

Local clock offset: 0.093 ms

Remote clock offset: 0.267 ms

Below is generated by plot.py at 2018-06-30 03:37:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 234.93 Mbit/s

95th percentile per-packet one-way delay: 86.309 ms

Loss rate: 0.44%

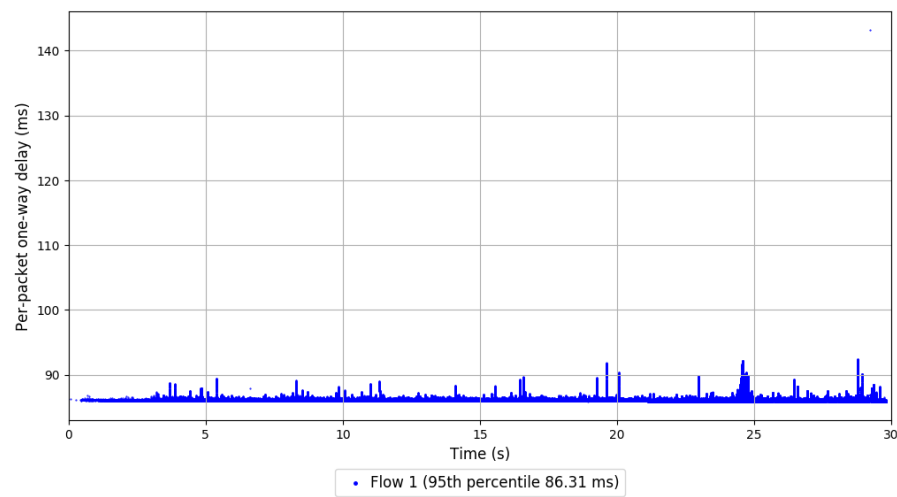
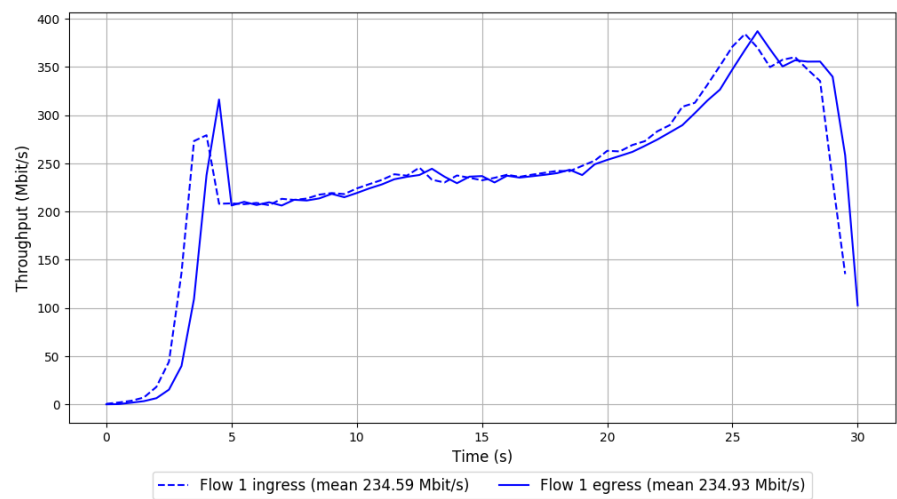
-- Flow 1:

Average throughput: 234.93 Mbit/s

95th percentile per-packet one-way delay: 86.309 ms

Loss rate: 0.44%

Run 6: Report of PCC-Vivace — Data Link



Run 7: Statistics of PCC-Vivace

Start at: 2018-06-30 01:18:43

End at: 2018-06-30 01:19:13

Local clock offset: 0.169 ms

Remote clock offset: 0.152 ms

Below is generated by plot.py at 2018-06-30 03:37:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 250.21 Mbit/s

95th percentile per-packet one-way delay: 87.008 ms

Loss rate: 0.36%

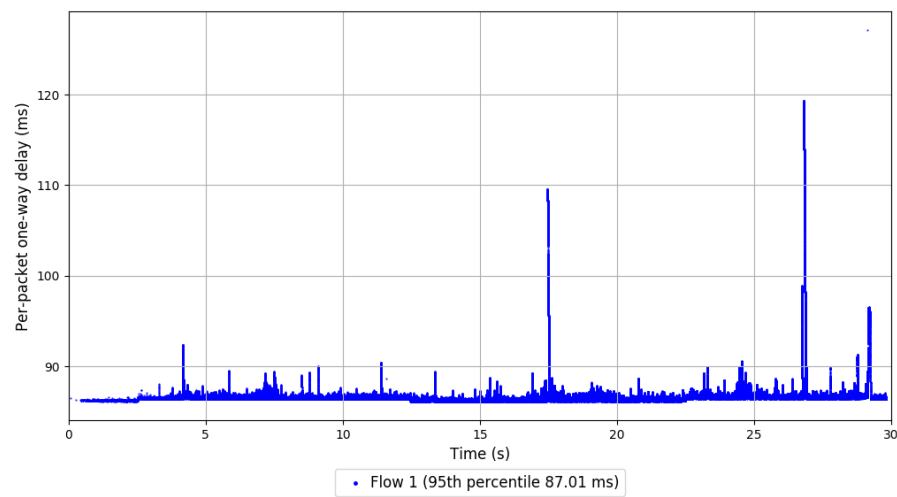
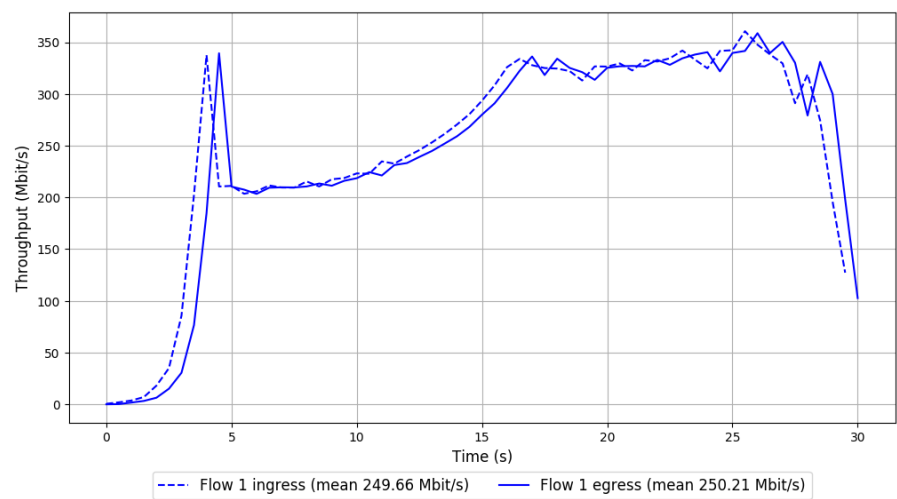
-- Flow 1:

Average throughput: 250.21 Mbit/s

95th percentile per-packet one-way delay: 87.008 ms

Loss rate: 0.36%

Run 7: Report of PCC-Vivace — Data Link



Run 8: Statistics of PCC-Vivace

Start at: 2018-06-30 01:39:53

End at: 2018-06-30 01:40:23

Local clock offset: 0.268 ms

Remote clock offset: 0.076 ms

Below is generated by plot.py at 2018-06-30 03:38:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 321.24 Mbit/s

95th percentile per-packet one-way delay: 122.452 ms

Loss rate: 1.05%

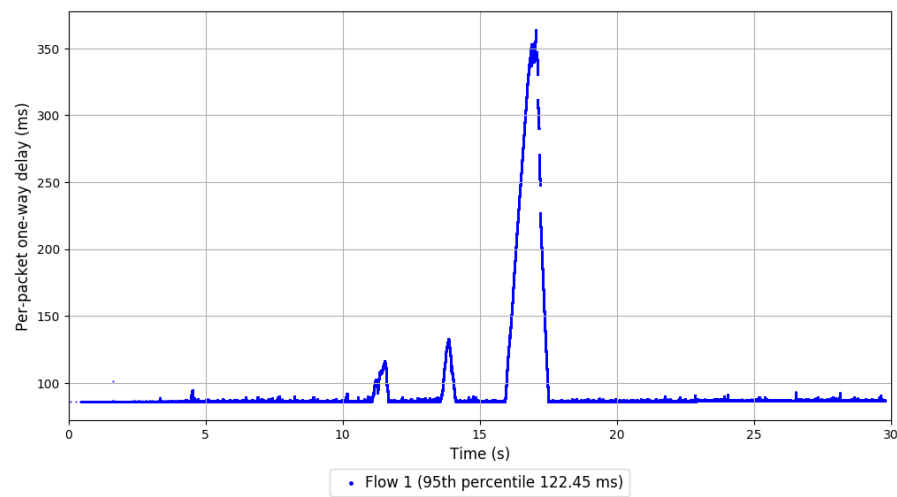
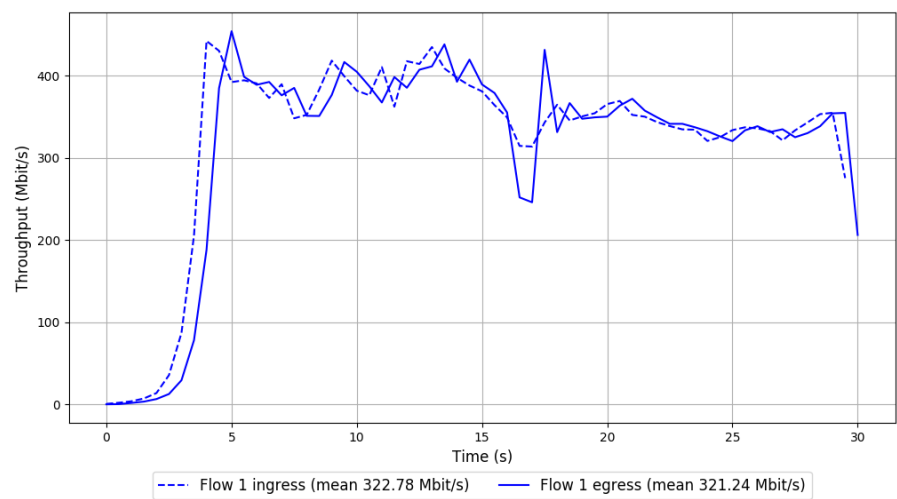
-- Flow 1:

Average throughput: 321.24 Mbit/s

95th percentile per-packet one-way delay: 122.452 ms

Loss rate: 1.05%

Run 8: Report of PCC-Vivace — Data Link

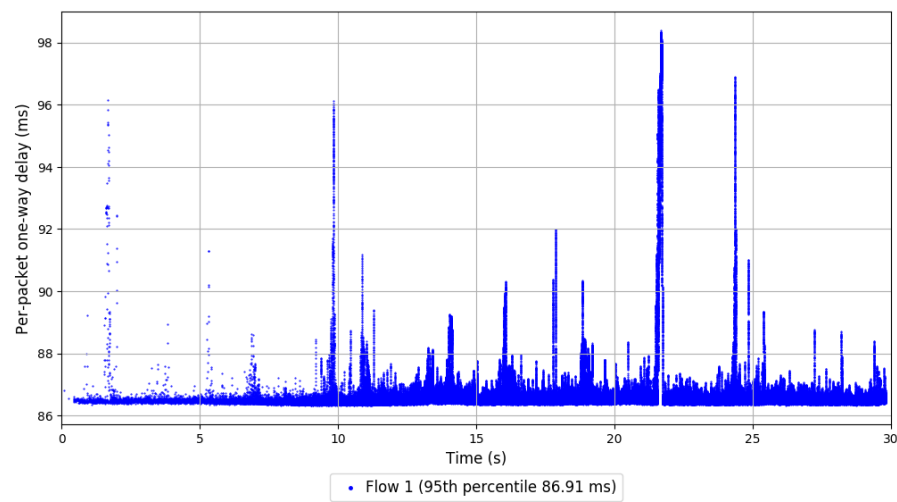
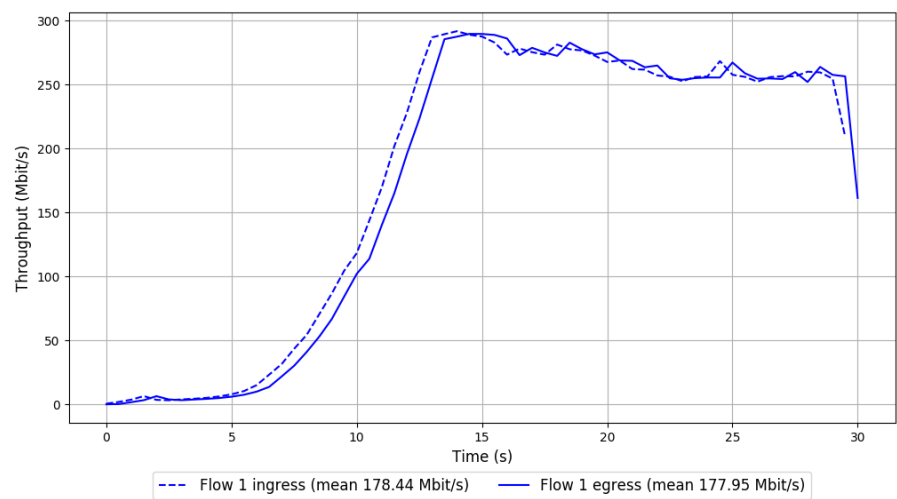


Run 9: Statistics of PCC-Vivace

Start at: 2018-06-30 02:00:49
End at: 2018-06-30 02:01:19
Local clock offset: 0.178 ms
Remote clock offset: -0.072 ms

Below is generated by plot.py at 2018-06-30 03:38:06
Datalink statistics
-- Total of 1 flow:
Average throughput: 177.95 Mbit/s
95th percentile per-packet one-way delay: 86.914 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 177.95 Mbit/s
95th percentile per-packet one-way delay: 86.914 ms
Loss rate: 0.85%

Run 9: Report of PCC-Vivace — Data Link



Run 10: Statistics of PCC-Vivace

Start at: 2018-06-30 02:21:59

End at: 2018-06-30 02:22:29

Local clock offset: 0.079 ms

Remote clock offset: -0.101 ms

Below is generated by plot.py at 2018-06-30 03:38:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 158.23 Mbit/s

95th percentile per-packet one-way delay: 86.463 ms

Loss rate: 1.16%

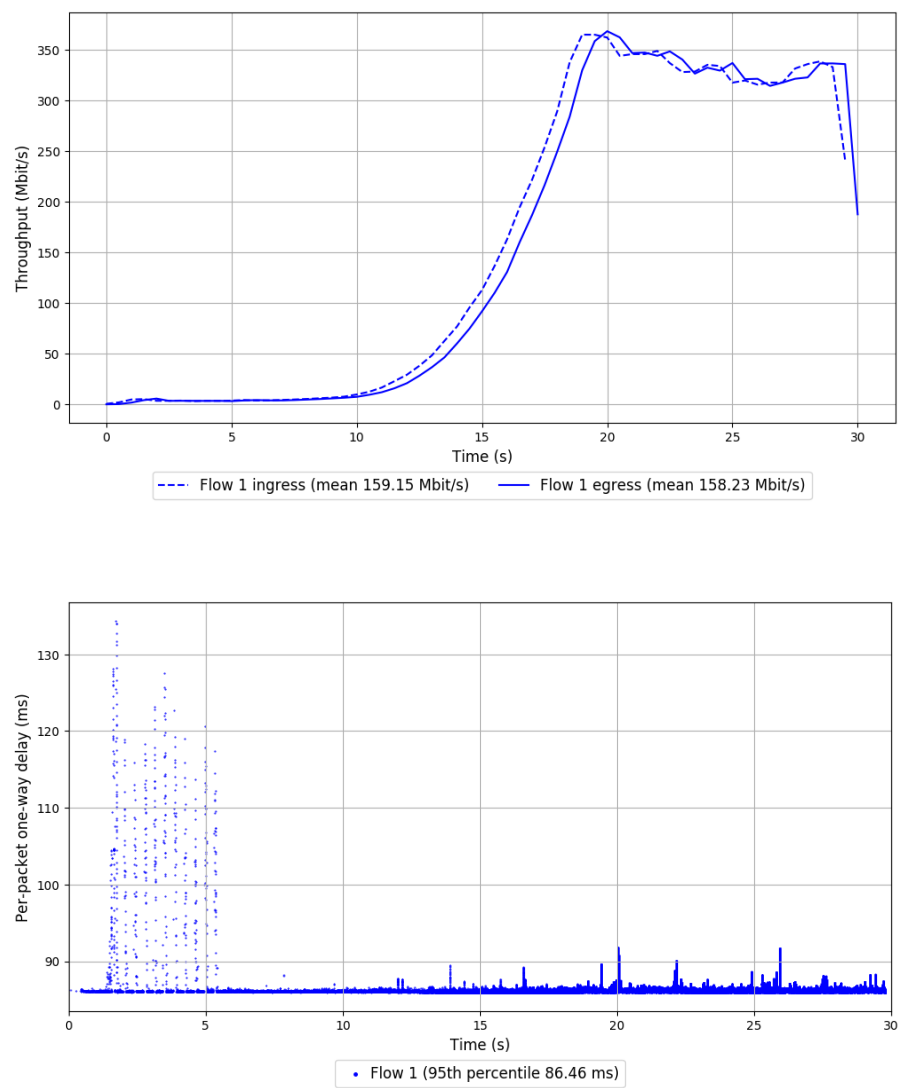
-- Flow 1:

Average throughput: 158.23 Mbit/s

95th percentile per-packet one-way delay: 86.463 ms

Loss rate: 1.16%

Run 10: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

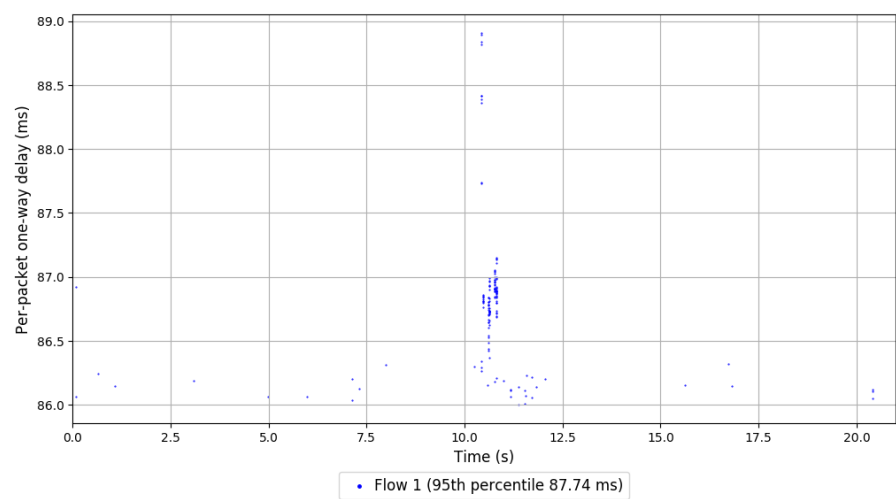
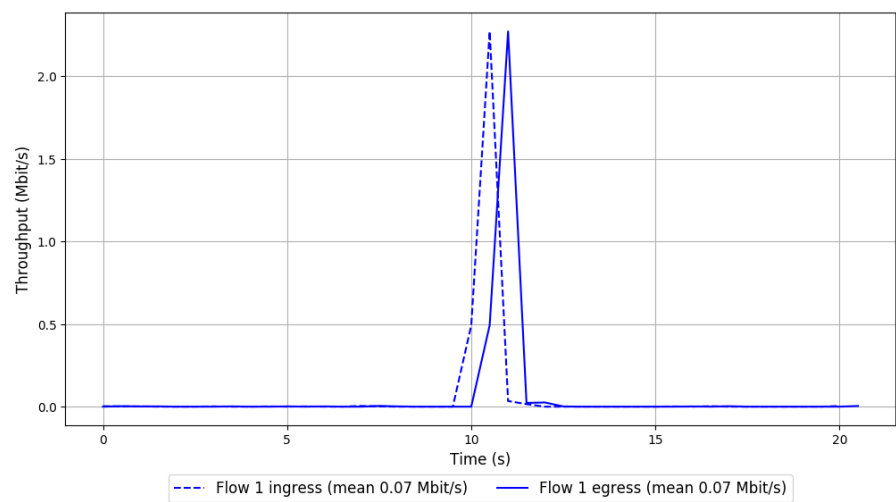
Start at: 2018-06-29 23:06:21

End at: 2018-06-29 23:06:51

Local clock offset: 0.104 ms

Remote clock offset: -0.083 ms

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-06-29 23:27:16

End at: 2018-06-29 23:27:46

Local clock offset: 0.368 ms

Remote clock offset: -0.08 ms

Below is generated by plot.py at 2018-06-30 03:38:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.90 Mbit/s

95th percentile per-packet one-way delay: 87.074 ms

Loss rate: 0.62%

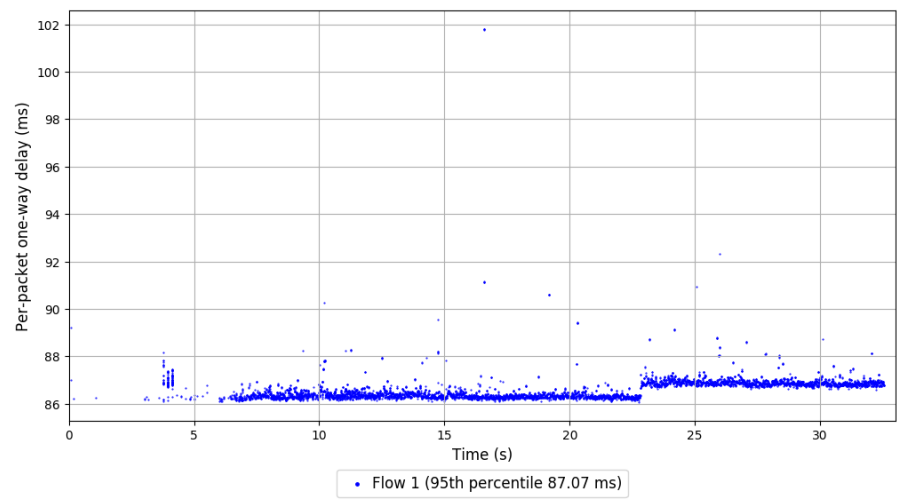
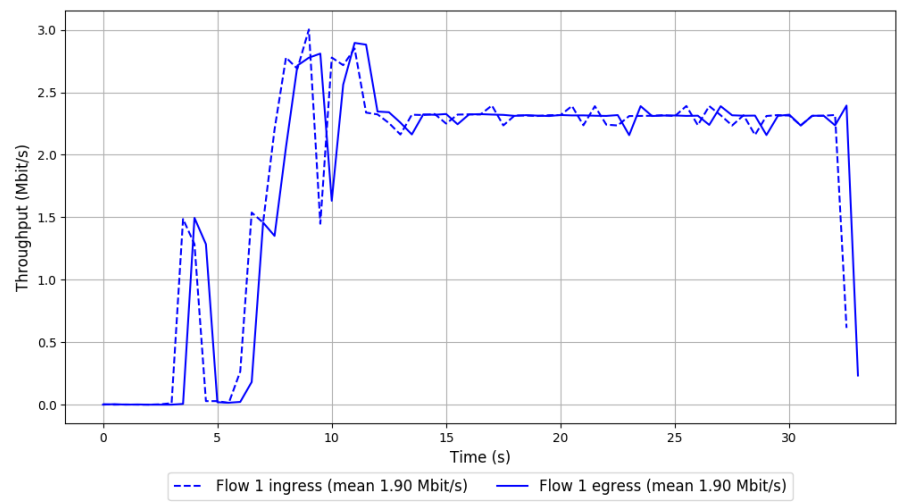
-- Flow 1:

Average throughput: 1.90 Mbit/s

95th percentile per-packet one-way delay: 87.074 ms

Loss rate: 0.62%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-06-29 23:48:23

End at: 2018-06-29 23:48:53

Local clock offset: 0.017 ms

Remote clock offset: 0.026 ms

Below is generated by plot.py at 2018-06-30 03:38:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.91 Mbit/s

95th percentile per-packet one-way delay: 86.404 ms

Loss rate: 0.56%

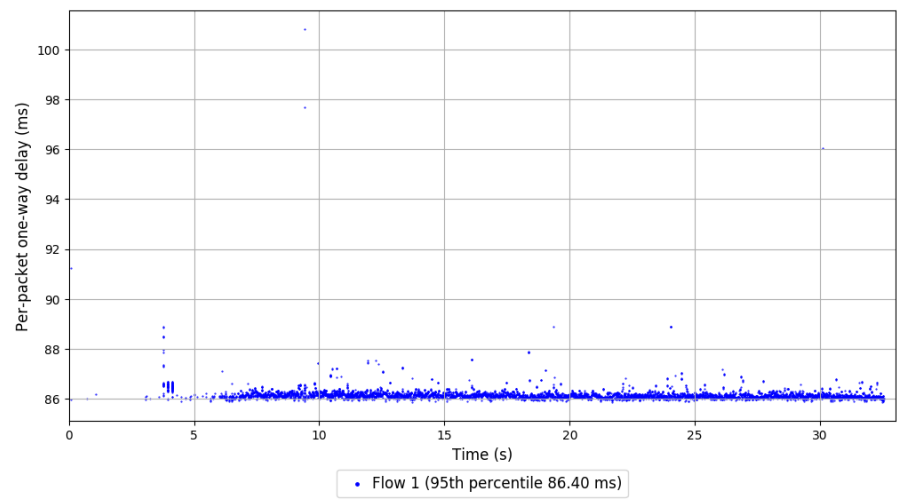
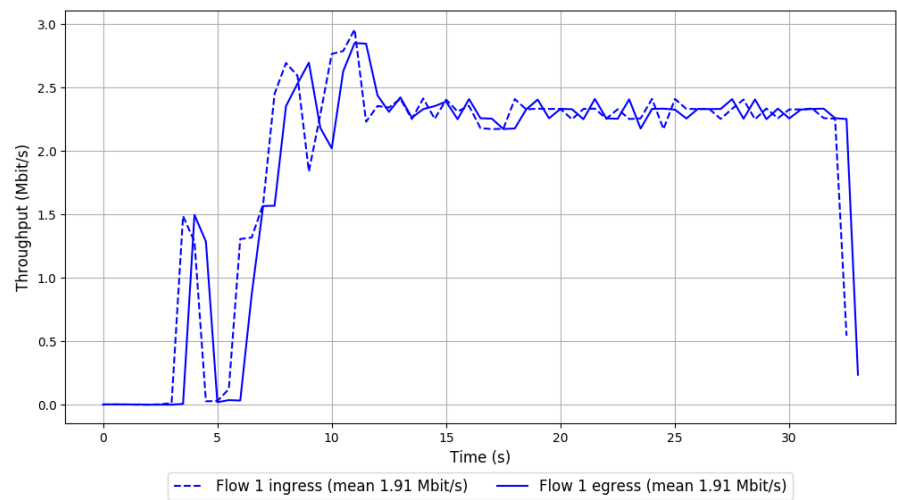
-- Flow 1:

Average throughput: 1.91 Mbit/s

95th percentile per-packet one-way delay: 86.404 ms

Loss rate: 0.56%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-06-30 00:09:16

End at: 2018-06-30 00:09:46

Local clock offset: 0.06 ms

Remote clock offset: 0.082 ms

Below is generated by plot.py at 2018-06-30 03:38:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.92 Mbit/s

95th percentile per-packet one-way delay: 86.734 ms

Loss rate: 0.68%

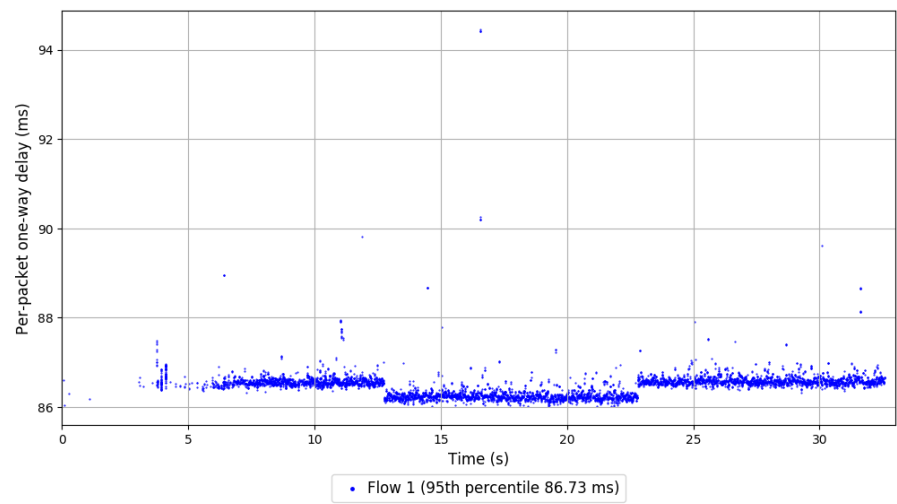
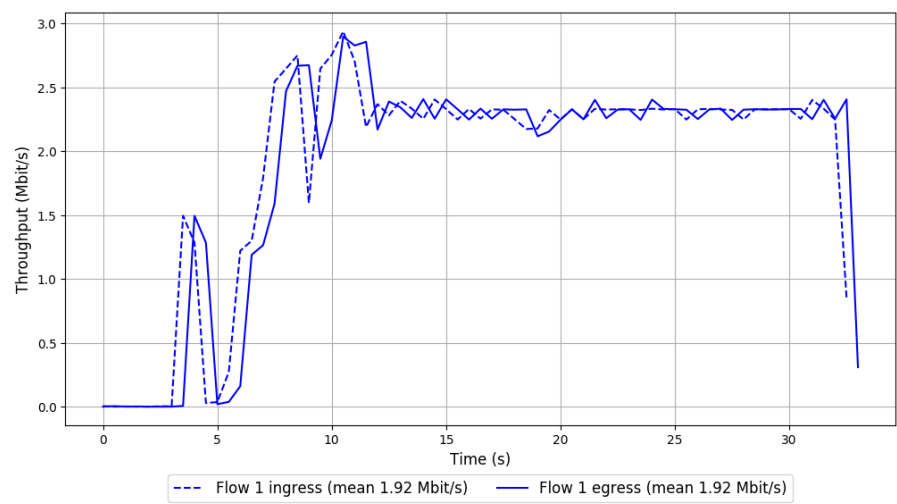
-- Flow 1:

Average throughput: 1.92 Mbit/s

95th percentile per-packet one-way delay: 86.734 ms

Loss rate: 0.68%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-06-30 00:30:31

End at: 2018-06-30 00:31:01

Local clock offset: 0.304 ms

Remote clock offset: 0.193 ms

Below is generated by plot.py at 2018-06-30 03:38:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.93 Mbit/s

95th percentile per-packet one-way delay: 86.571 ms

Loss rate: 0.61%

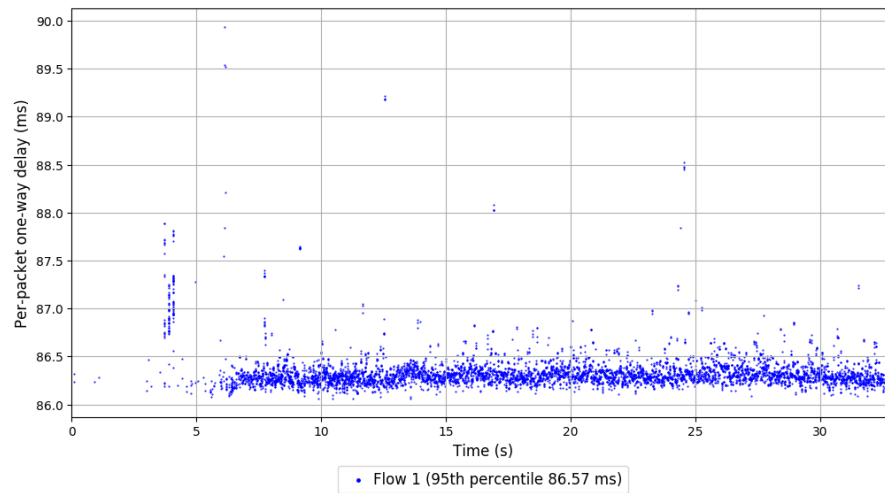
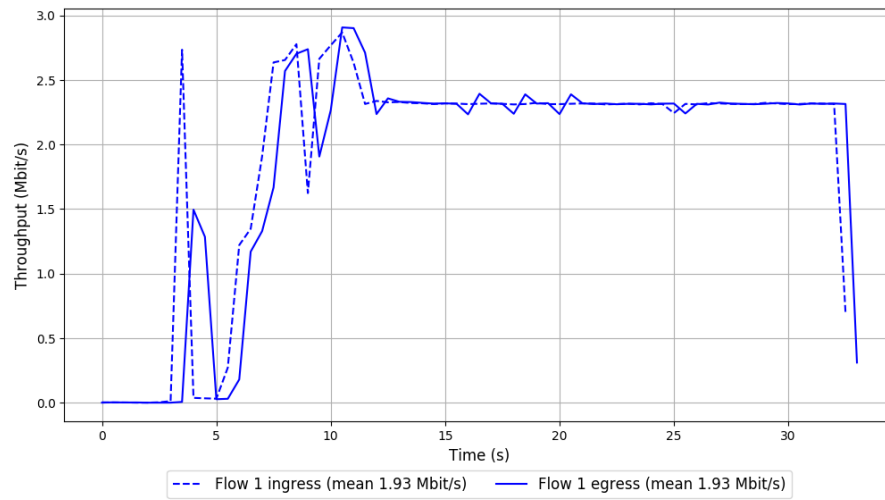
-- Flow 1:

Average throughput: 1.93 Mbit/s

95th percentile per-packet one-way delay: 86.571 ms

Loss rate: 0.61%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-06-30 00:51:32

End at: 2018-06-30 00:52:03

Local clock offset: 0.092 ms

Remote clock offset: 0.235 ms

Below is generated by plot.py at 2018-06-30 03:38:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.89 Mbit/s

95th percentile per-packet one-way delay: 86.917 ms

Loss rate: 0.62%

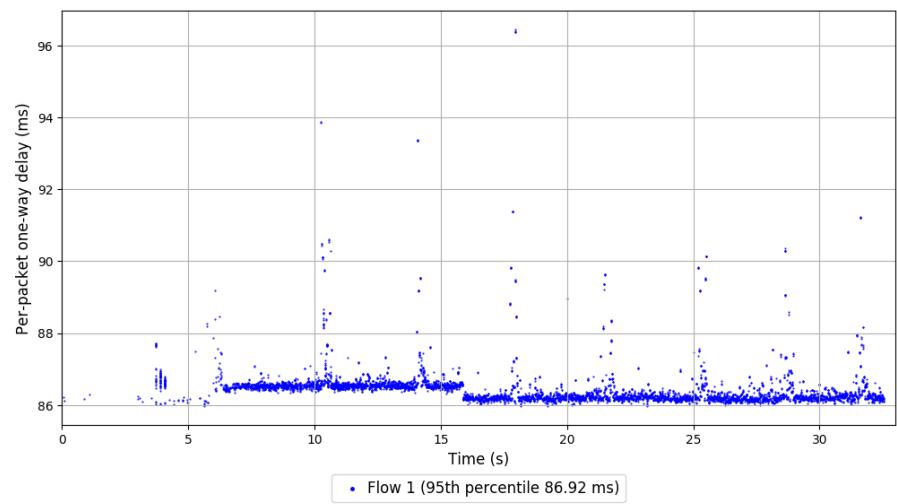
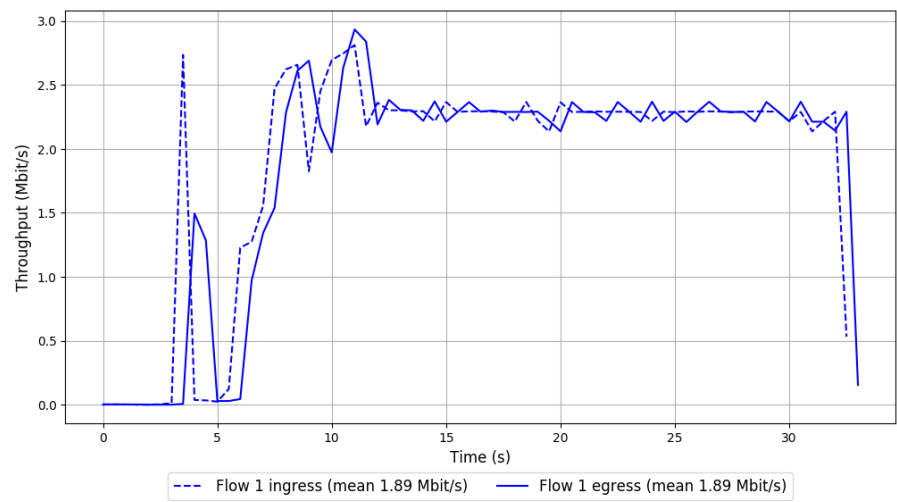
-- Flow 1:

Average throughput: 1.89 Mbit/s

95th percentile per-packet one-way delay: 86.917 ms

Loss rate: 0.62%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-06-30 01:12:34

End at: 2018-06-30 01:13:04

Local clock offset: 0.092 ms

Remote clock offset: 0.227 ms

Below is generated by plot.py at 2018-06-30 03:38:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.90 Mbit/s

95th percentile per-packet one-way delay: 86.808 ms

Loss rate: 0.61%

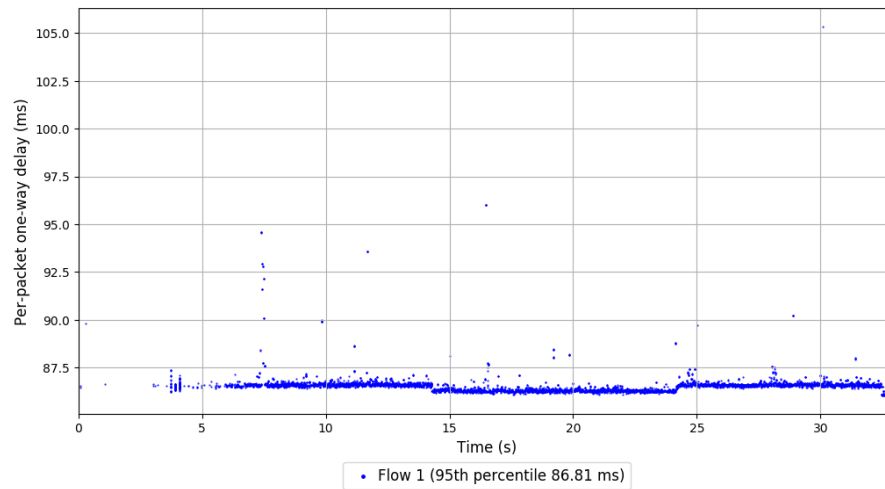
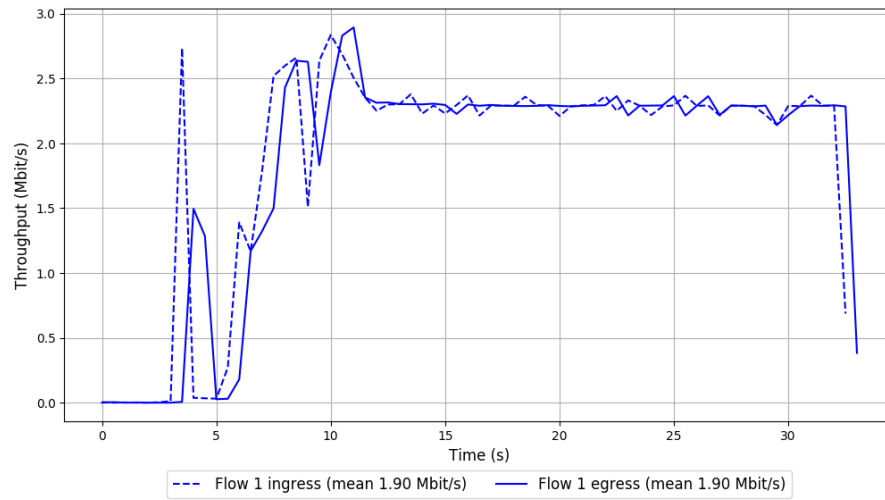
-- Flow 1:

Average throughput: 1.90 Mbit/s

95th percentile per-packet one-way delay: 86.808 ms

Loss rate: 0.61%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-06-30 01:33:41

End at: 2018-06-30 01:34:11

Local clock offset: 0.3 ms

Remote clock offset: 0.045 ms

Below is generated by plot.py at 2018-06-30 03:38:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.89 Mbit/s

95th percentile per-packet one-way delay: 86.624 ms

Loss rate: 0.62%

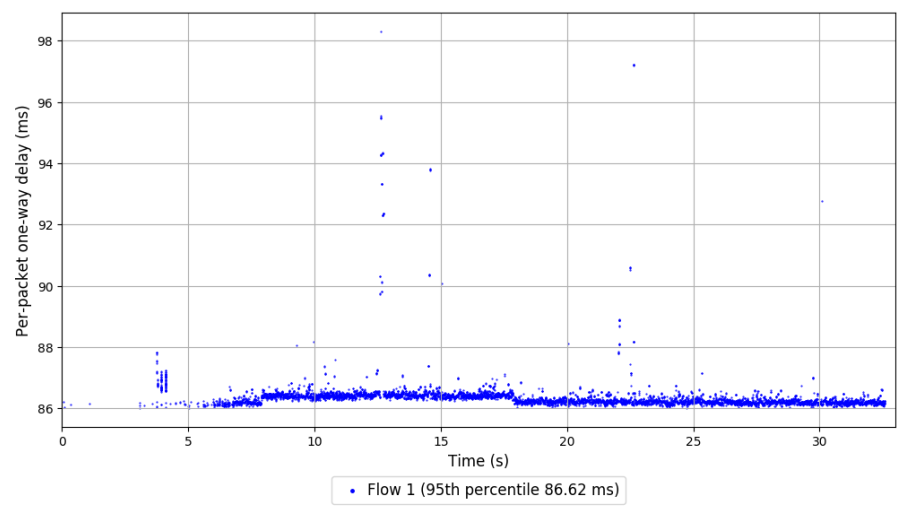
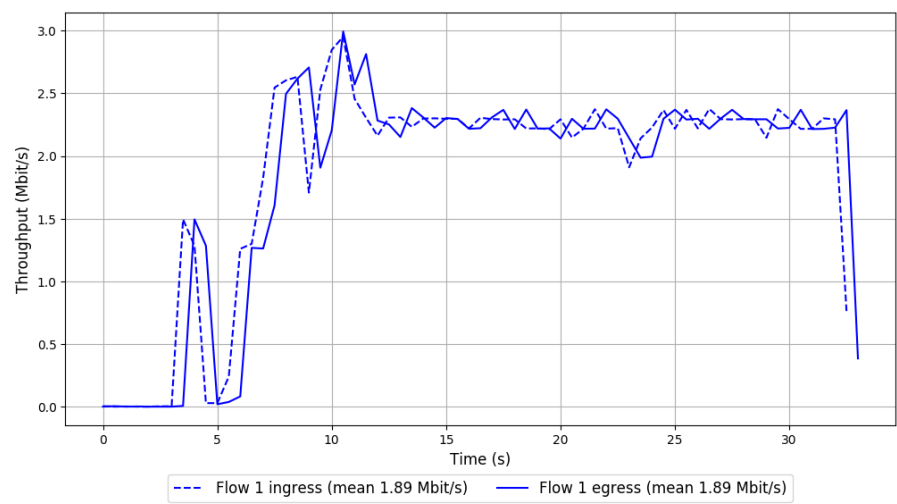
-- Flow 1:

Average throughput: 1.89 Mbit/s

95th percentile per-packet one-way delay: 86.624 ms

Loss rate: 0.62%

Run 8: Report of WebRTC media — Data Link

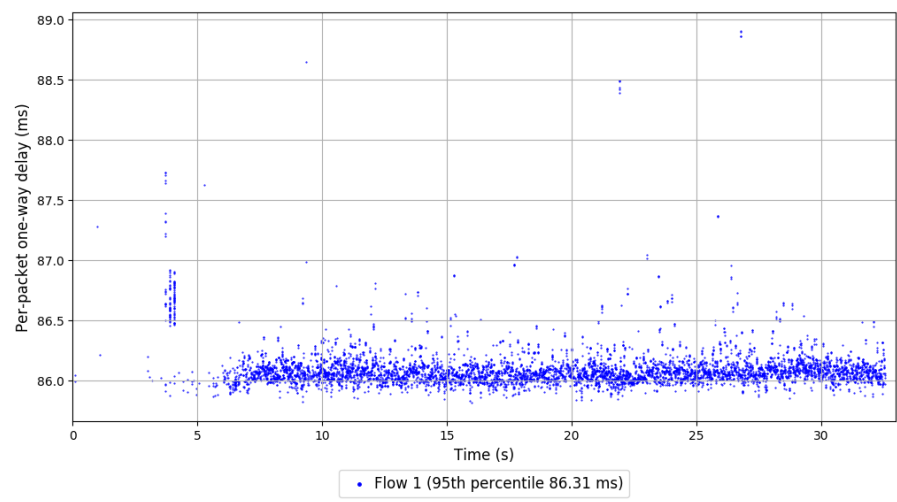
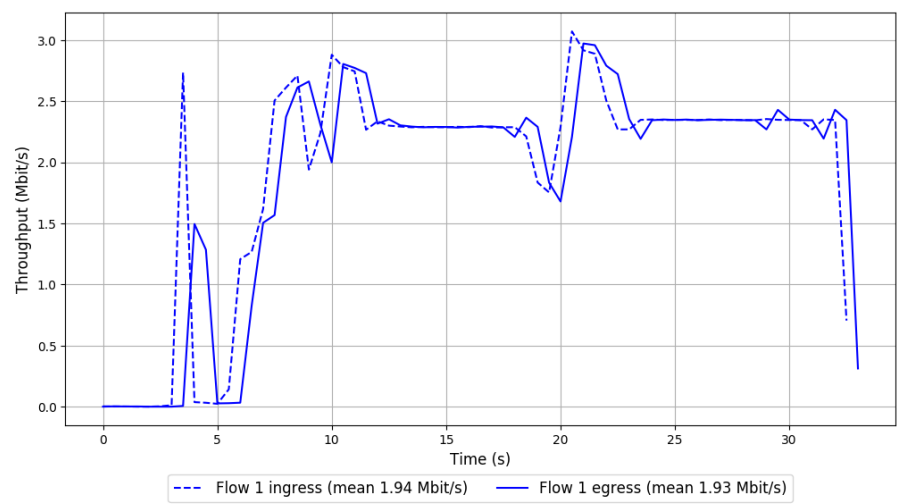


Run 9: Statistics of WebRTC media

Start at: 2018-06-30 01:54:44
End at: 2018-06-30 01:55:14
Local clock offset: 0.206 ms
Remote clock offset: -0.039 ms

Below is generated by plot.py at 2018-06-30 03:38:06
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.93 Mbit/s
95th percentile per-packet one-way delay: 86.312 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 1.93 Mbit/s
95th percentile per-packet one-way delay: 86.312 ms
Loss rate: 0.62%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-06-30 02:15:49

End at: 2018-06-30 02:16:19

Local clock offset: 0.288 ms

Remote clock offset: -0.093 ms

Below is generated by plot.py at 2018-06-30 03:38:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.90 Mbit/s

95th percentile per-packet one-way delay: 86.782 ms

Loss rate: 0.56%

-- Flow 1:

Average throughput: 1.90 Mbit/s

95th percentile per-packet one-way delay: 86.782 ms

Loss rate: 0.56%

Run 10: Report of WebRTC media — Data Link

